

Appendix E – Ground Movement Assessment by GEA Ltd

GROUND MOVEMENT ASSESSMENT REPORT

Panther House
38 Mount Pleasant
London WC1

Client: Dukelease

Engineer: Eckersley O'Callaghan

J15249A

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Document Control

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1.0 INTRODUCTION

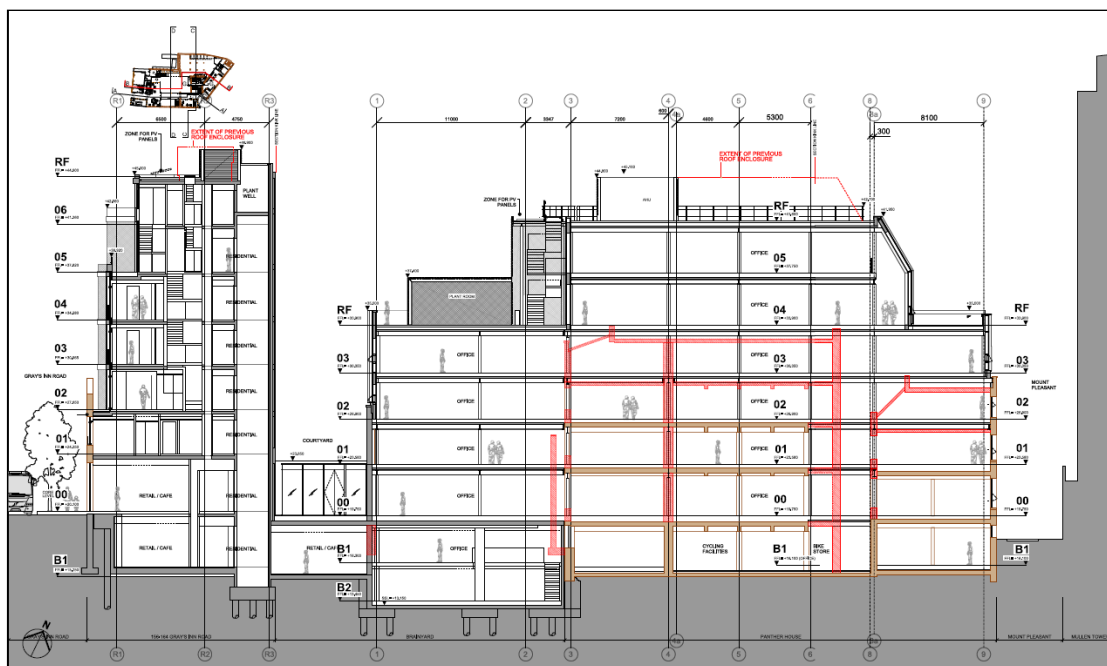
Geotechnical and Environmental Associates (GEA) has been commissioned by Eckersley O’Callaghan, on behalf of Dukelease, to complete a ground movement assessment for the proposed redevelopment of this site at Panther House, 156–164 Gray’s Inn Road, London, WC1X 8ED.

A Phase I Preliminary Risk Assessment (report ref 15/23911-1, dated August 2015) and subsequent ground investigation report (report ref 15/23911, dated August 2015) have been undertaken by Site Analytical Services SAS) Ltd, and have been used by GEA to produce a Basement Impact Assessment Report (report ref J15249 - Rep Issue 3, dated March 2016). The findings of these reports have been used in the derivation of parameters for use in this assessment.

The purpose of this assessment has been to determine the effects of the proposed basement construction upon the neighbouring structures.

1.1 Proposed Development

It is understood that it is proposed to retain Panther House in the west of the site and add an additional two storeys. The existing buildings in the east and central part of the site, which include 156–164 Gray’s Inn Road and Brain Yard, will be partly demolished and replaced with two new buildings. These will include single and double level basement structures respectively, as shown on the drawing below.



Anticipated loads for the proposed development are not known at this stage, but are likely to be moderate to high on the basis of the information provided with regard to the general proposals.

This report is specific to the proposed development and the advice herein should be reviewed if the proposals are amended.

1.2 Limitations

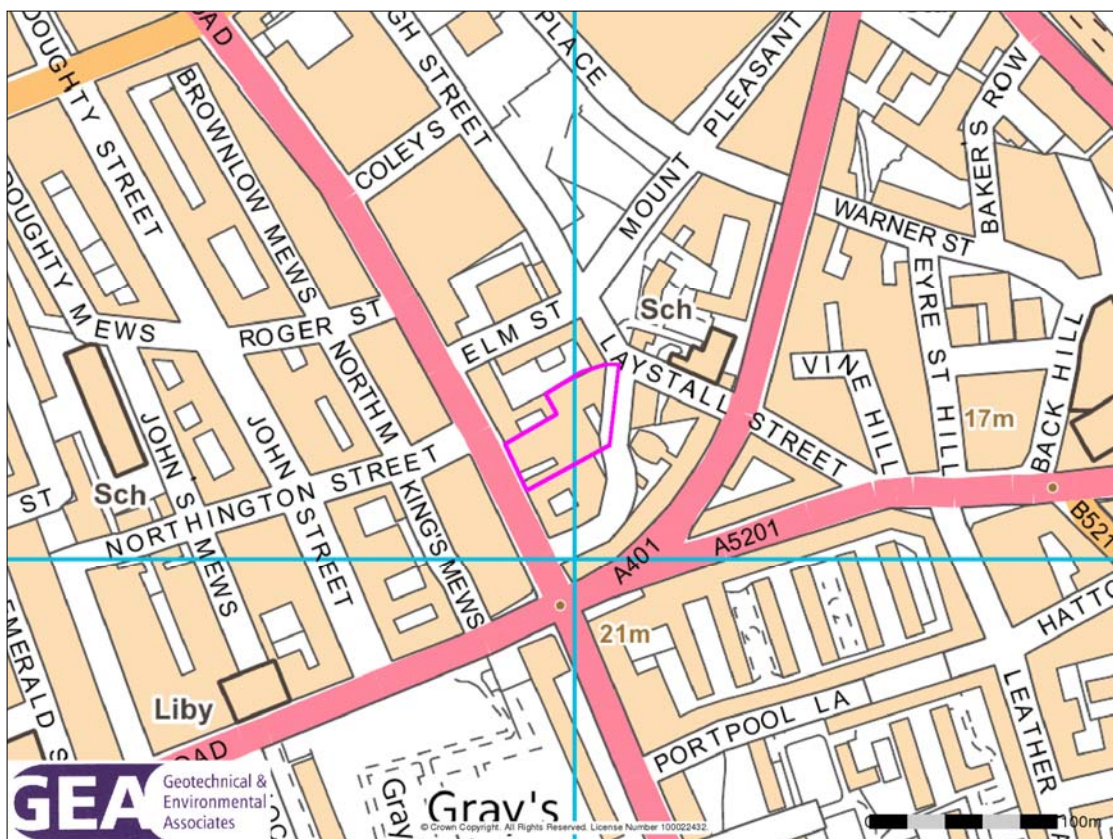
The conclusions and recommendations made in this report are limited to those that can be made on the basis of the investigation. The results of the work should be viewed in the context of the range of data sources consulted, the number of locations where the ground was sampled and the number of soil, gas or groundwater samples tested; no liability can be accepted for information in other data sources or conditions not revealed by the sampling or testing. Any comments made on the basis of information obtained from the client or other third parties are given in good faith on the assumption that the information is accurate; no independent validation of such information has been made by GEA.

2.0 THE SITE

2.1 Site Description

The site is located in the London Borough of Camden, in Holborn, 450 m to the northwest of Chancery Lane London Underground station. It is irregular in shape and measures approximately 40 m north-south by 65 m east-west and fronts onto Gray's Inn Road to the west and is bounded to the east by Mount Pleasant and is bounded by commercial buildings to the north and south.

The site may be additionally located by National Grid Reference 531000, 182070 and is shown on the map extract below.



A walk-over was conducted by SAS Ltd on 12 August 2015 and the site has not been visited by GEA. The site is understood to be generally level and is currently occupied by various buildings, ranging from single storey to six-storeys, understood to be of commercial use. In the east of the site is 38 Mount Pleasant, which includes a single storey basement, which extends to a level of about 15.54 m OD. In the west of the site is 156-164 Gray's Inn Road. Beneath the existing Tramshed of Brain Yard, located in the central part of the site, a partial basement is present, which extends to a level of about 17.70 m OD. Some of the buildings are currently unoccupied. The remainder of the site is covered by hardstanding.

The site is devoid of vegetation and will remain so as part of the proposed development.

3.0 SUMMARY OF GROUND CONDITIONS

The SAS investigation generally encountered the expected ground conditions, in that beneath a moderate to significant thickness of made ground, which extends to depths of between 0.90 m (14.59 m OD) and 3.10 m (17.10 m OD), River Terrace Deposits are underlain by the London Clay, in turn overlying the Lambeth Group which was proved to the maximum depth investigated of 25.00 m.

The River Terrace Deposits comprise medium dense to very dense brown sandy gravel and extends to depths of 1.80 m (13.69 m OD) and 5.50 m (14.70 m OD).

The London Clay initially comprises stiff mottled brown silty sandy clay with occasional gypsum crystals, extending to depths of 2.00 m (13.49 m OD) and 5.80 m (14.40 m OD). Below this depth stiff or very stiff dark grey silty sandy fissured clay, was encountered, which extended to a depth of 17.50 m (2.70 m OD), where proved.

The Lambeth Group initially comprises very stiff multi-coloured brown friable silty clay, which extended to a depth of 24.70 m (-4.50 m OD), overlying very dense light grey silty fine sand, proved to a depth of 25.00 m (-4.80 m OD).

Localised seepages were noted within the made ground. Groundwater was encountered during drilling in the River Terrace Deposits at a depth of 5.50 m (14.70 m OD). A seepage was encountered at a depth of 14.00 m (6.20 m OD), within the London Clay during drilling. Monitoring of the standpipes has measured groundwater at depths of between 1.77 m (13.72 m OD) and 4.00 m (16.20 m OD), roughly two weeks after installation.

3.1 British Geological Society (BGS) Archives

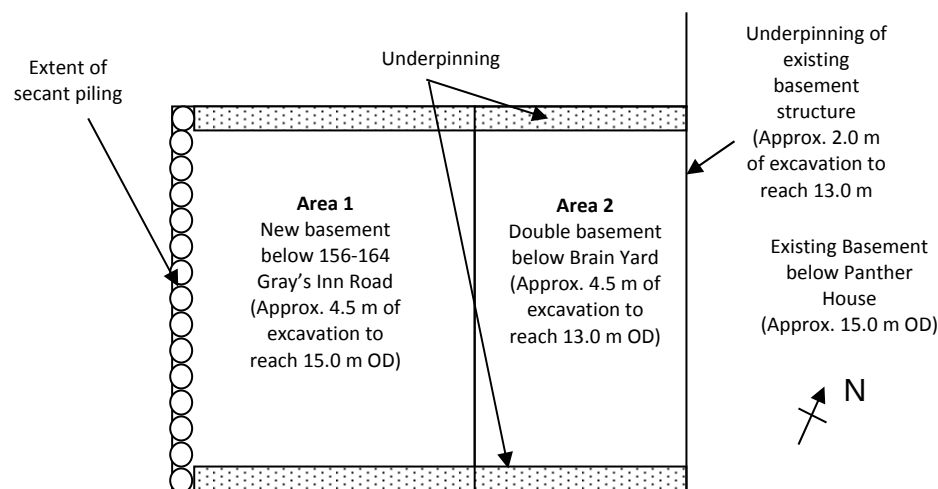
A review of deep borehole records held on the British Geological Society (BGS) database has indicated that the Lambeth Group extends to a depth of approximately 30 m (-10.0 m OD), below which the Thanet Sand and White Chalk are present.

4.0 CONSTRUCTION SEQUENCE

The following sequence of operations has been derived to enable analysis of the ground movements around the basement both during and after construction.

Essentially the sequence may be considered as three groups of activities, the first two comprising the short and medium term temporary works whilst the third represents the construction of the permanent works.

It is understood from the information provided that underpinning will be adopted for the majority of the excavations, whilst the Gray's Inn Road frontage will be formed with a secant bored pile wall. The sketch below shows the basic form of the proposed basement and the construction techniques to be adopted.



The detail of the support provided to adjacent walls is beyond the scope of this report and the structural engineer will be best placed to agree a methodology with the piling contractor once appointed.

4.1 Temporary Support to Underpinned Sections

The exact proposals are not known at this stage. However, it is anticipated that underpinning will be undertaken on a 'hit and miss' sequence, in a one or two stage sequence to be agreed with the temporary works engineer and under party wall agreement.

Underpinning should be undertaken in short sections not exceeding 1.0 m in length, with no adjacent pin to be excavated until a minimum of 48 hours after the adjacent pin has been cast and dry-packed placed, with the sides of the excavation adequately shored and propped.

4.2 Temporary Support to Piled Walls

Following the installation of the secant pile wall and associated capping beams along the Gray's Inn Road frontage, temporary props should be installed to allow the basement excavations to proceed. The detail of section sizes and spacings will be finalised by the contractor but it is anticipated that the general philosophy adopted will be for diagonal braces to be used across the corners or returns of the basement walls whilst props will be positioned at regular intervals along the long walls of the basement.

Where horizontal restraint cannot be provided by other parts of the piled wall the prop forces can be provided by so-called 'flying shores' where the reaction to horizontal forces is provided by pile caps, gravity blocks or basement thickenings in the centre of the excavation.

It is anticipated that steel temporary props will be used with strut forces spread along the wall by steel waling beams fixed to the piles. Although the detail of the propping is to be finalised, there is the option to use hydraulic 'active' props where the propping force is applied prior to excavation in order to minimise movement at critical locations.

Excavation will proceed in stages and in broad terms the order of operations will be to install capping beam props, excavate to a suitable depth below the next propping level, install props and then repeat the operation until the final excavation level has been reached.

4.3 Permanent Works

When the final excavation depths have been reached, the permanent works will be formed and from the information provided these are understood to comprise reinforced concrete walls with a drained cavity lining inside of the bored pile wall. Reinforced concrete will be used for floor slabs and it is anticipated that heave protection will be installed beneath the lowest level slab.

It is anticipated that the floor slabs, which will act as permanent props, will be constructed at the lowest level first and when each floor has achieved adequate strength, the temporary props will be removed and the subsequent walls and floors cast until the structure is complete.

5.0 GROUND MOVEMENTS

An assessment of ground movements within and surrounding the excavation has been undertaken using the X-Disp and P-Disp computer programs licensed from the OASYS suite of geotechnical modelling software from Arup. These programs are commonly used within the ground engineering industry and are considered to be appropriate tools for this analysis.

The X-Disp program has been used to predict ground movements likely to arise from the construction of the proposed basement. This includes the settlement of the ground (vertical movement) and the lateral movement of soil behind the proposed retaining walls (horizontal movement).

The analysis of potential ground movements within the excavation, as a result of unloading of the underlying soils, has been carried out using the Oasys P-Disp software package and is based on the assumption that the soils behave elastically, which provides a reasonable approximation to soil behaviour at small strains.

For the purpose of these analyses, the corners have been defined by x and y coordinates, with the x-direction parallel with the sites northern and southern boundaries (approx. southwest-northeast), whilst the y-direction is parallel with the orientation of Gray's Inn Road (approx. northwest- southeast). Vertical movement is in the z-direction.

For this movement analysis, the basement has been modelled as a rectangular shaped box, 34 m by 26 m in maximum extent, which will be formed through a combination of mass concrete underpinning beneath Brain Yard and a secant bored pile wall, where the proposed

basement extends beneath the western part of the site. It is assumed that suitable propping will be provided during the construction of the basement and in the permanent condition, such that the walls can be considered to be stiff for the purpose of the ground movement modelling.

The full outputs of all the analyses, including output movement contour plots, are included within the appendix.

5.1 Ground Movements – Surrounding the Basement

5.1.1 Model Used

For the X-Disp analysis, the soil movement relationships used for the embedded retaining walls are the default values within CIRIA report C580¹, which were derived from a number of historic case studies of the short term movements that result from wall installation and basement excavation.

For the new basement construction along the Gray's Inn Road Frontage, which will be formed by means of a secant piled wall, the ground movement curves for 'installation of secant bored pile wall in stiff clay' have been adopted as being most appropriate for modelling the likely ground movements during the installation phase.

For the remainder of the proposed excavations, it is assumed that the mass concrete underpinning will be supported or propped in the temporary condition to maintain its stability during the excavation and that reinforced concrete retaining walls will be cast at a later stage in the appropriate areas.

Whilst it might appear reasonable to adopt the ground movement curves for 'no horizontal and vertical movement' for this analysis, in practice there will always be a potential for some movement to take place. It is therefore typically considered reasonable to adopt the values for the 'installation of planar diaphragm wall in stiff clay' to represent the likely movements from the construction of underpins.

The ground movement curves for 'excavations in front of a stiff wall in stiff clay' have then been adopted to provide an estimate of the likely movements from the subsequent excavations.

Due to the complexity of the proposed basement, including the different depths of excavation, retained heights and wall types, it has been necessary to divide the proposed footprint up into two individual rectangles for the purpose of the analysis, in order to distinguish between the two areas of basement construction and the differing methods used to support the excavations. Whilst this does mean that the model more closely reflects the actual basement construction, an artefact of the way that the software works means that where individual areas meet, there is an interaction between the predicted movements calculated for each area which leads to an overestimate of the likely movements where this overlap occurs, such that the model can be considered to be extremely conservative in these areas.

The damage assessments are therefore considered to represent a reasonable estimate of movements at this stage and offer a simple 'global' view of the movement contours around the site.

¹ Gaba, A, Simpson, B, Powrie, W and Beadman, D (2003) *Embedded retaining walls – guidance for economic design*. CIRIA Report C580.

5.1.2 Results

The movements predicted by X-Disp are summarised in the table below; the results are presented below and in subsequent tables to the degree of accuracy required to allow predicted variations in ground movements around the structure to be illustrated, but may not reflect the anticipated accuracy of the predictions.

Phase of Works	Wall Movement (mm)	
	Vertical Settlement	Horizontal Movement
Pile Installation	3.0 to 4.0	5.0 to 6.0
Underpinning	2.0 to 3.0	2.0 to 3.0
Basement Excavation	2.0 to 5.0	6.0 to 9.0
Combined Movements	5.0 to 7.0	8.0 to 13.0

The analysis has indicated that the maximum vertical and horizontal settlements that will result from pile installation / underpinning are less than 4 mm to 6 mm, whilst the settlements that will take place behind the walls as a result of the basement excavations is unlikely to exceed 5 mm to 9 mm. The movements arising from the combined piling and excavation phases are therefore not likely to exceed 7 mm of vertical settlement, whilst the maximum horizontal movements are anticipated to be less than 13 mm.

The estimated movements are considered to represent a worst case scenario, particularly as the movements resulting from basement excavation will be minimised due to control of the propping in the temporary works and a regime of monitoring.

5.2 Movements within the Excavation (Heave)

5.2.1 Model Used

At this site, unloading of the London Clay and underlying Lambeth Group will take place as a result of the basement excavation and the reduction in vertical stress will cause heave to take place. Undrained soil parameters have been used to estimate the potential short term movements, which include the “immediate” or elastic movements as a result of the basement excavation. Drained parameters have been used to provide an estimate of the total long-term movement.

The elastic analysis requires values of soil stiffness at various levels to calculate displacements. Values of stiffness for the soils at this site are readily available from published data and we have used a well-established method to provide our estimates. This relates values of E' and E_u , the drained and undrained stiffness respectively, to values of undrained cohesion, as described by Padfield and Sharrock² and Butler³ and more recently by O’Brien and Sharp⁴. Relationships of $E_u = 500 C_u$ and $E' = 300 C_u$ for the cohesive soils and $2000 \times \text{SPT 'N'}$ for granular soils have been used to obtain values of Young’s modulus. More recent published

² Padfield CJ and Sharrock MJ (1983) *Settlement of structures on clay soils*. CIRIA Special Publication 27

³ Butler FG (1974) *Heavily overconsolidated clays: a state of the art review*. Proc Conf Settlement of Structures, Cambridge, 531-578, Pentech Press, Lond

⁴ O’Brien AS and Sharp P (2001) *Settlement and heave of overconsolidated clays - a simplified non-linear method*. Part Two, Ground Engineering, Nov 2001, 48-53

data⁵ indicates stiffness values of $750 \times C_u$ for the London Clay and a ratio of E' to C_u of 0.75, but it is considered that the use of the more conservative values provides a sensible approach for this stage in the design.

The proposed excavations for the new basement structures is likely to result in an approximate unloading of about 90 kN/m^2 . A rigid boundary for the analysis has been set at a depth of about 30 m (-10.0 m OD) below existing ground level, where nearby BGS records indicate that the base of the Lambeth Group is likely to be present.

5.2.2 Results

The movements predicted by P-Disp are summarised in the table below; the results are considered sufficient to allow predicted variations in ground movements within and around the structure to be illustrated, but should be viewed in the context of the accuracy of the input data and assumptions made.

Location	Movement (mm)		
	Short-term Heave (Excavation Phase)	Long-term Heave (post construction)	Total Heave
Centre of excavations	12.0	12.0	24.0
Edge of excavations	5.0 to 6.0	7.0 to 8.0	13.0
At 5 m from edge of excavations	<2.0	<2.0	<4.0

The P-Disp analysis indicates that, by the time the basement construction is complete, up to 12 mm of heave is likely to have taken place at the centre of the proposed excavations, reducing to less than 6 mm at the edges. In the long term, following completion of the basement construction, a further 12 mm of heave is estimated as a result of long term swelling of the underlying London Clay.

The results of the P-Disp analysis also indicate the likely impact of the proposed basement construction beyond the site boundaries. It is, however, important to bear in mind that the figures in the above table are based on an unrestrained excavation as the model does not take account of the mitigating effect of the existing structures, the stiffness of the proposed floor slab, proposed underpins and the secant pile wall. In reality these will combine to restrict these movements within the basement excavation. The movements predicted at or just beyond the site boundaries are unlikely to be fully realised and should not therefore have a detrimental impact upon any nearby structures.

In order to mitigate the effects of heave on the new building, the basement could be designed to transmit heave forces into the wall piles or on to tension piles within the basement.

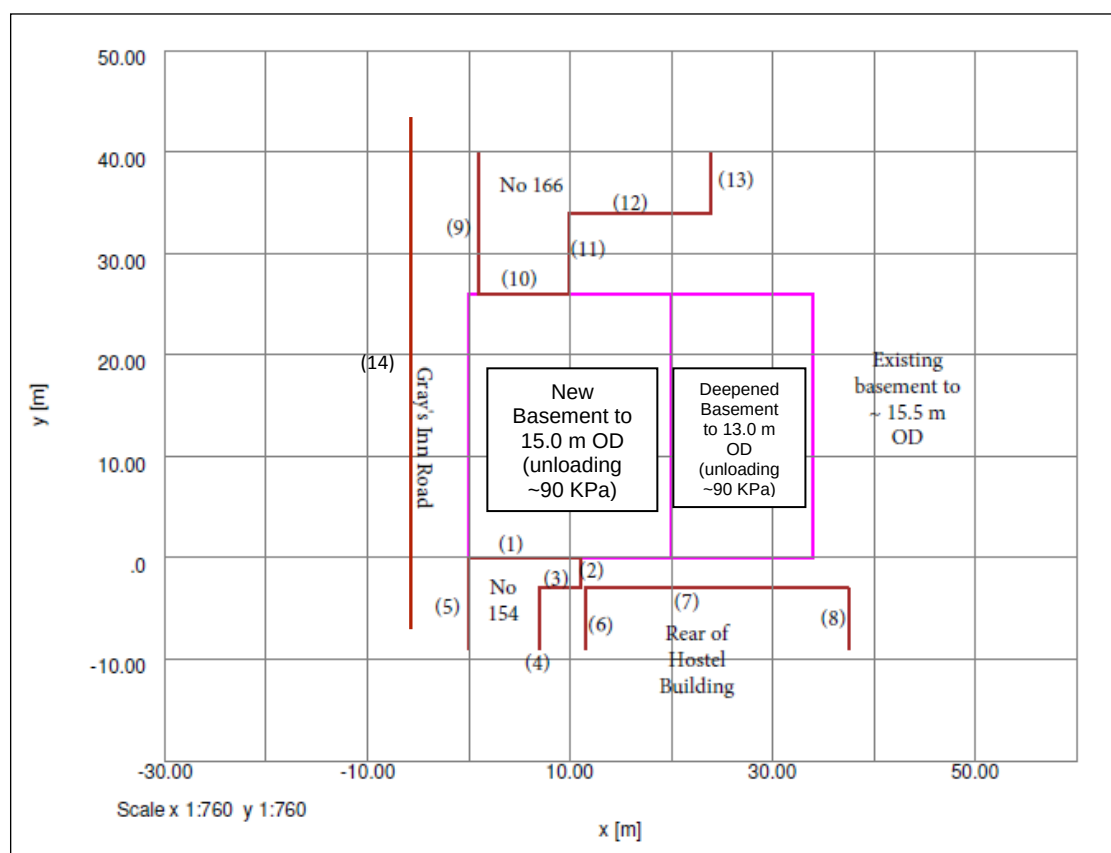
Alternatively, or in any case, a void or layer of compressible material should be incorporated into the design to accommodate these potential long term movements. If a compressible material is used beneath the slab, it will need to be designed to be able to resist the potential uplift forces generated by the ground movements. In this respect potential heave pressures to be accommodated are typically taken to equate to around 30% to 40% of the total unloading pressure.

⁵ Burland JB, Standing, JR, and Jardine, FM (2001) Building response to tunnelling, case studies from construction of the Jubilee Line Extension.. CIRIA Special Publication 200

6.0 DAMAGE ASSESSMENT

In addition to the above assessment of the likely movements that will result from the proposed development, some of the neighbouring structures have been considered as sensitive structures, requiring Building Damage Assessments, on the basis of the classification given in Table 2.5 of C580. These include:

- ❑ The adjoining property of No 154 Gray's Inn Road, to the south;
- ❑ the rear of an existing Hostel Building, situated to the southeast; and
- ❑ No 166 Gray's Road, and associated structures, located to the north and northwest of the site; and
- ❑ the adjoining roadway of Gray's Inn Road.



The sensitive structures have been modelled as lines in the analysis and are the lines along which the damage assessment has been undertaken, as shown on the plan above.

From information provided by the consulting engineer, it is understood that the adjoining buildings have lower ground floor / basement levels and foundations for these properties have therefore been placed at levels of between 18.0 m OD and 17.0 m OD.

6.1 Damage to Neighbouring Structures

The combined movements resulting from both pile installation and basement excavation calculated using the X-Disp modelling software have been used to carry out an assessment of the likely damage to adjacent properties and the results are summarised in the table below.

The potential heave movements predicted by P-Disp have not been included in this assessment, which can therefore be considered as conservative, as these movements are likely to have a mitigating effect on the downward settlement predicted by X-Disp.

Building Damage Assessment			
Sensitive Structure	Elevation	Max Tensile strain %	Category of Damage*
No 154 Gray's Inn Road (Four-storey)	Party Wall (1)	0.01	Category 0 (Negligible)
	Rear (2)	0.06	Category 1 (Very Slight)
	Rear (3)	<0.01	Category 0 (Negligible)
	Rear (4)	0.04 to 0.06	Category 0 (Negligible) to Category 1 (Very Slight)
	Front (5)	0.01 to 0.02	Category 0 (Negligible)
Rear of Hostel Building (Five-storey)	Side (6)	0.06	Category 1 (Very Slight)
	Near (7)	<0.01 to 0.02	Category 0 (Negligible)
	Side (8)	<0.01	Category 0 (Negligible)
No 166 (and adjoining) (Five-storey + lower ground floor)	Front (9)	0.04 to 0.07	Category 0 (Negligible) to Category 1 (Very Slight)
	Party Wall (10)	<0.01	Category 0 (Negligible)
	Rear (11)	0.06	Category 1 (Very Slight)
	Rear (12)	<0.01	Category 0 (Negligible)
	Rear (13)	0.05	Category 1 (Very Slight)
Gray's Inn Road	Roadway (14)	<0.01	Category 0 (Negligible)

*From Table 2.5 of C580: Classification of visible damage to walls.

The building damage reports for sensitive structures highlighted in the above table predict that the damage to the adjoining and nearby structures would generally be Category 0 (negligible). However, some limited sections of Category 1 (very slight) damage are predicted on the front and rear / side elevations of the adjoining properties, which run perpendicular to the proposed basement excavation and therefore experience the greatest degree of differential movement and further consideration is given to these structures below.

It should be noted that the results discussed above are based on individual building lines, or walls, which have been further divided up into a series of segments that can move independently of each other. In reality this is unlikely to be the case as the walls will behave as single stiff elements that are also joined continuously with the rest of the structure. The results therefore provide a conservative estimate of the behaviour of each of the sensitive structures, and are likely to be an overestimate of the degree of damage, although they provide a useful indication of the most critical structures within the adjoining properties.

6.1.1 Manual Assessment

There is a wealth of experience with respect to the construction of underpinned retaining walls beneath existing structures, suggesting that ground movements should remain typically within the range of 2 mm to 5 mm following completion of the works and provided that they are installed by a reputable and experienced contractor in accordance with the guidelines published by the Association of Specialist Underpinning Contractors⁶.

If an upper limit of 5 mm of horizontal movement on the proposed underpinning is taken into account, manual calculations show that the damage categories on each of the sensitive structures identified above (i.e. Elevation Nos 2, 4, 6, 9, 11 and 13), where Category 1 Damage has been predicted by X-Disp, reduce to Category 0 (negligible).

For the manual calculations, the plot for horizontal wall movements as a result of the excavation in front of a wall in stiff clay in CIRIA C580 (Fig 2.11a) has been adapted to reflect a trend line that assumes a movement of 5 mm immediately behind the wall, with movement that diminishes with distance from the wall according to the trend line set by a wall within a high stiffness clay. The change in horizontal movement has then been used to calculate the horizontal deflection, which along with the vertical deflection calculated within X-Disp for each structure, have been used to re-calculate the likely damage category.

Copies of the manual building damage calculations are included in the appendix.

6.2 Monitoring of Ground Movements

The predictions of ground movement based on the ground movement analysis should be checked by monitoring of adjacent properties and structures. The structures to be monitored during the construction stages should include:

- ❑ The adjoining properties of No 154 and 166 Gray's Inn Road, to the south and northwest;
- ❑ The rear of the Hostel Building to the southeast; and
- ❑ the sections of underpinning and secant piled walls.

Condition surveys of the above existing structures should be carried out before and after the proposed works.

The precise monitoring strategy will be developed at a later stage and it will be subject to discussions and agreements with the owners of the adjacent properties and structures. Contingency measures will be implemented if movements of the adjacent structures exceed predefined trigger levels. Both contingency measures and trigger levels will need to be developed within a future monitoring specification for the works.

⁶ Haslam S, O'Connor L (2013) *Guidelines on safe and efficient basement construction directly below or near to existing structures* ASUC

7.0 CONCLUSIONS

The initial analysis has indicated that the predicted damage to the neighbouring properties, would be Negligible to Very Slight. However, manual calculations based on a maximum horizontal deflection of 5 mm on the proposed underpinning, show that no damage in excess of Category 0 (Negligible) is likely to occur.

It is therefore concluded that the damage that will inevitably occur as a result of the proposed development will fall within the acceptable limits. However, monitoring and a contingency for mitigation measures should be adopted as part of the construction plan to ensure that no excessive movements occur that would lead to damage in excess of these limits.

The separate phases of work, including formation of the lower ground floor extension, piling and subsequent excavation of the proposed basement, will in practice be separated by a number of weeks during which time construction of capping beams and pile curing will take place. This will provide an opportunity for the ground movements during and immediately after piling to be measured and the data acquired can be fed back into the design and compared with the predicted values. Such a comparison will allow the ground model to be reviewed and the predicted wall movements to be reassessed prior to the main excavation taking place so that propping arrangements can be adjusted if required.

APPENDICES

SOIL DISPLACEMENT MODEL RESULTS

X-DISP ANALYSIS

Pile Installation / Underpinning

Contour Plots of Vertical Movements and Horizontal Movements

Basement Excavation

Contour Plots of Vertical and Horizontal Movements

Combined Movements

Contour Plots of Combined Vertical Movements and Horizontal Movements

P-DISP ANALYSIS

Short Term Movement

Total Movement

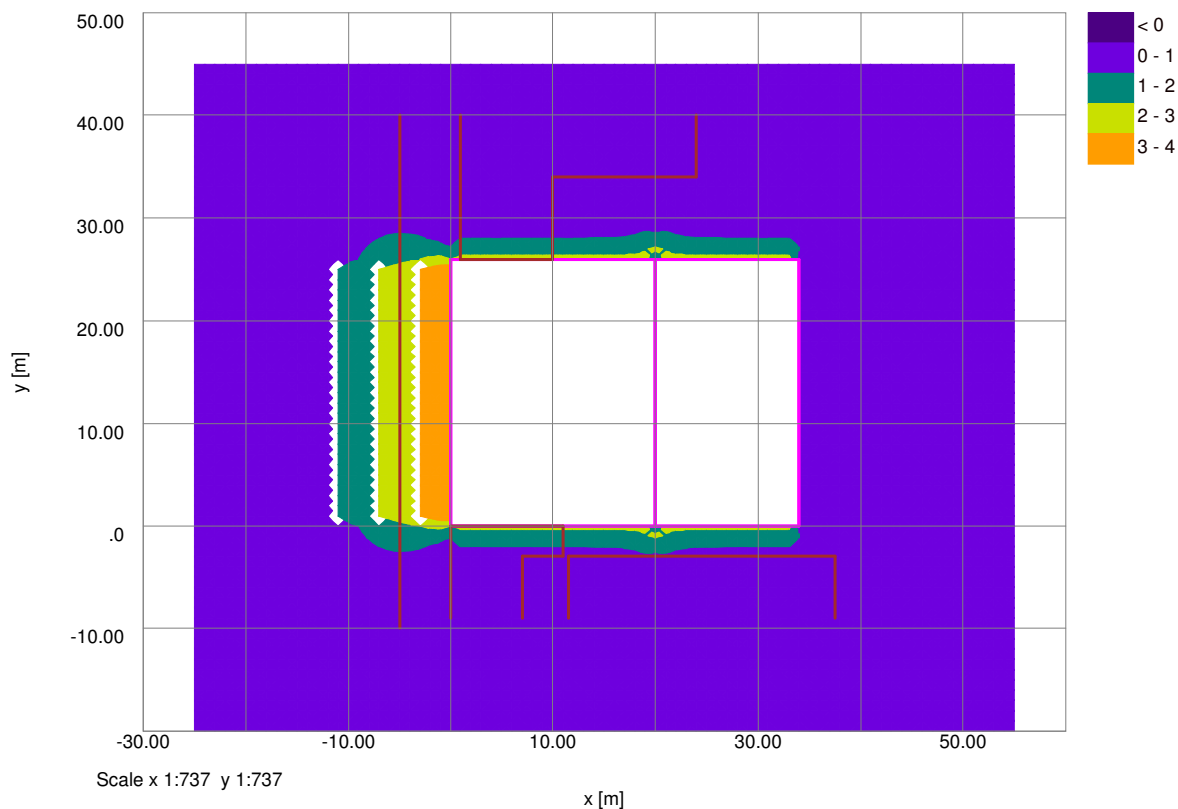
BUILDING DAMAGE ASSESSMENT (X-DISP)

Tabular Output of Results

Manual Calculation Sheets

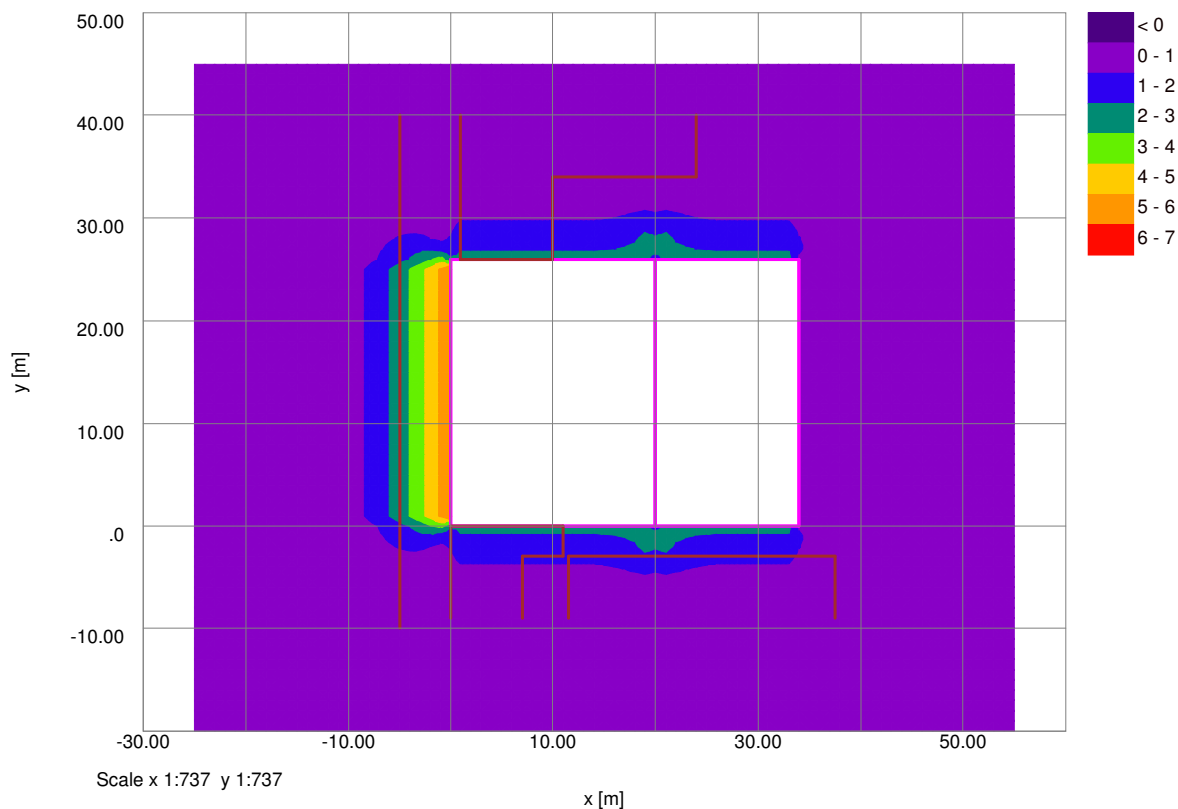
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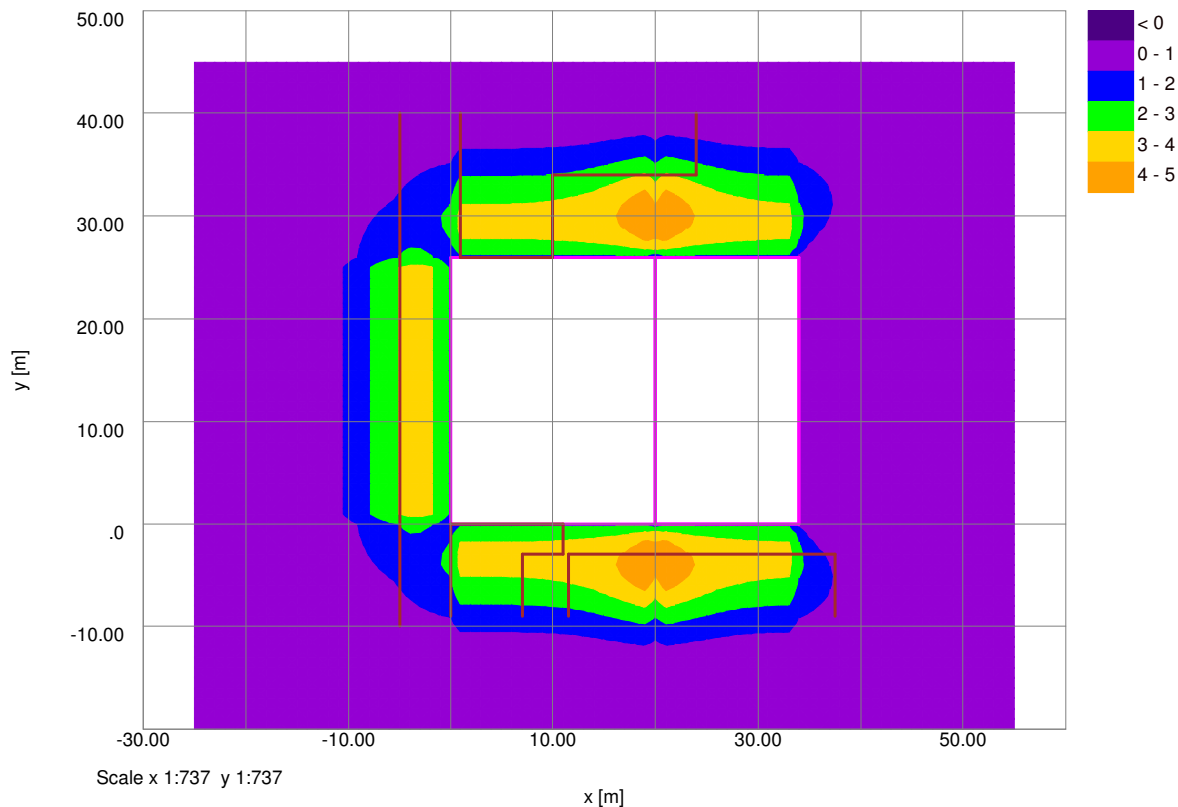
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Drg. Ref.		
Made by MP	Date 03-Jan-2017	Checked

Horizontal Displacement Contours: Grid 3 (level 19.500m) Interval 1mm



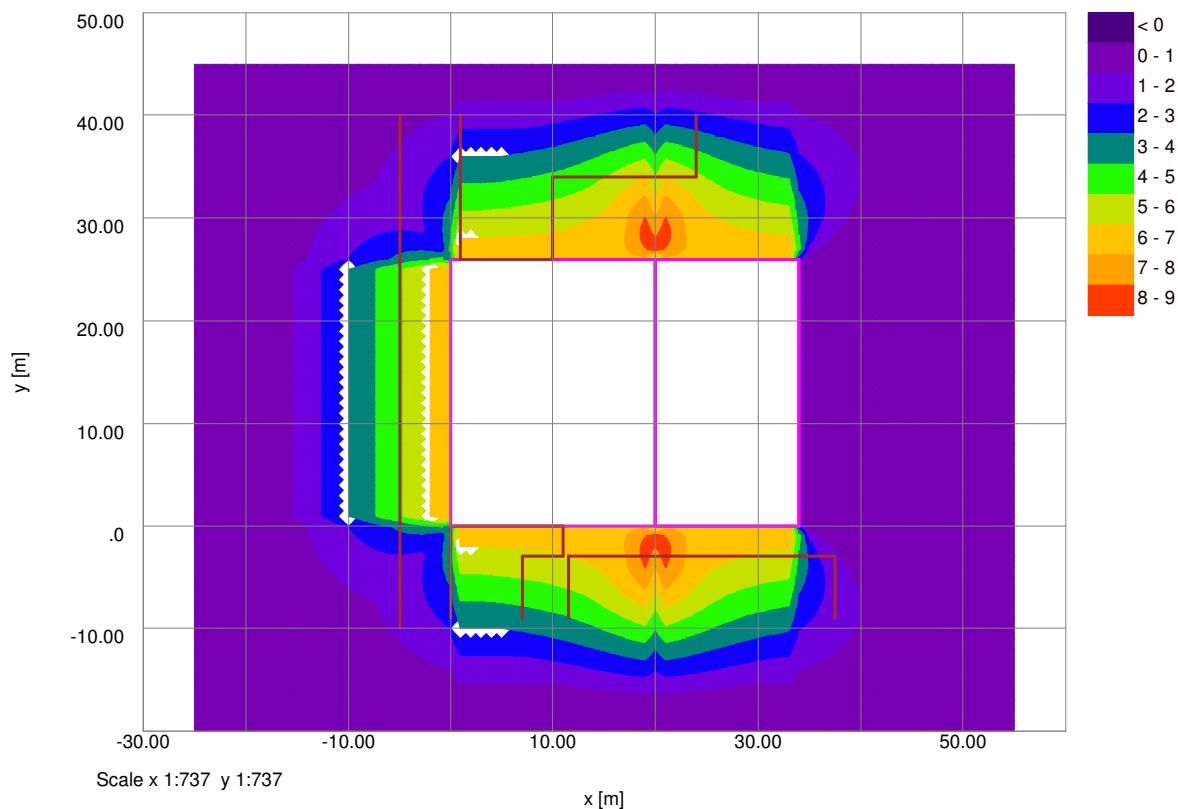
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Vertical Settlement Contours: Grid 3 (level 19.500m) (Interval 1mm)



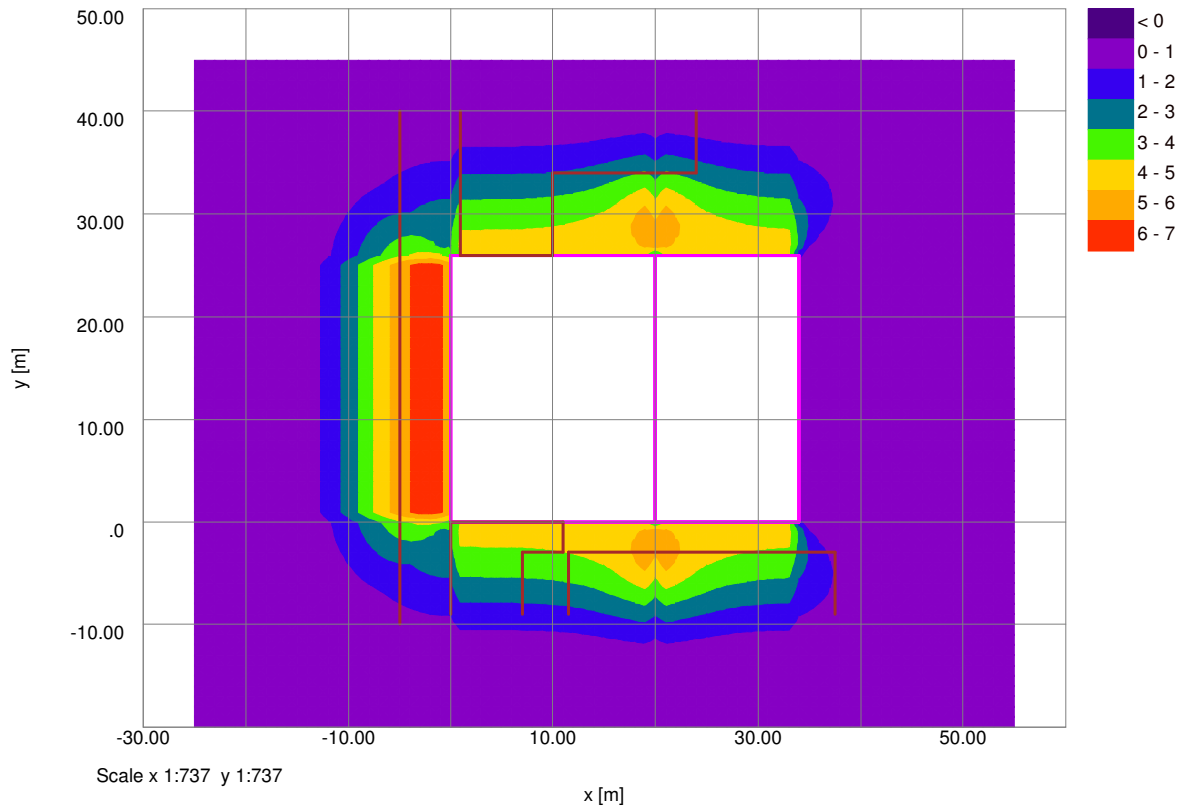
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Made by MP	Date 04-Jan-2017	Checked

Horizontal Displacement Contours: Grid 3 (level 19.500m) Interval 1mm



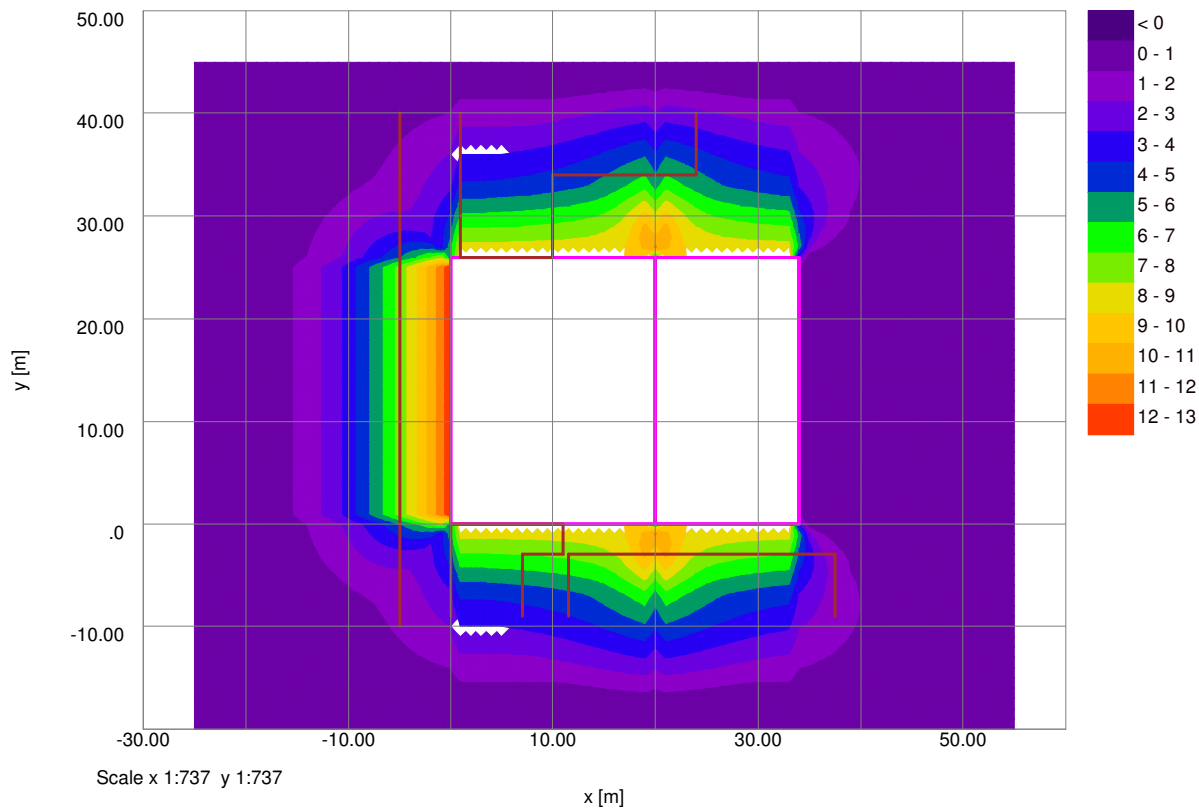
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Made by MP	Date 03-Jan-2017	Checked

Vertical Settlement Contours: Grid 3 (level 19.500m) (Interval 1mm)

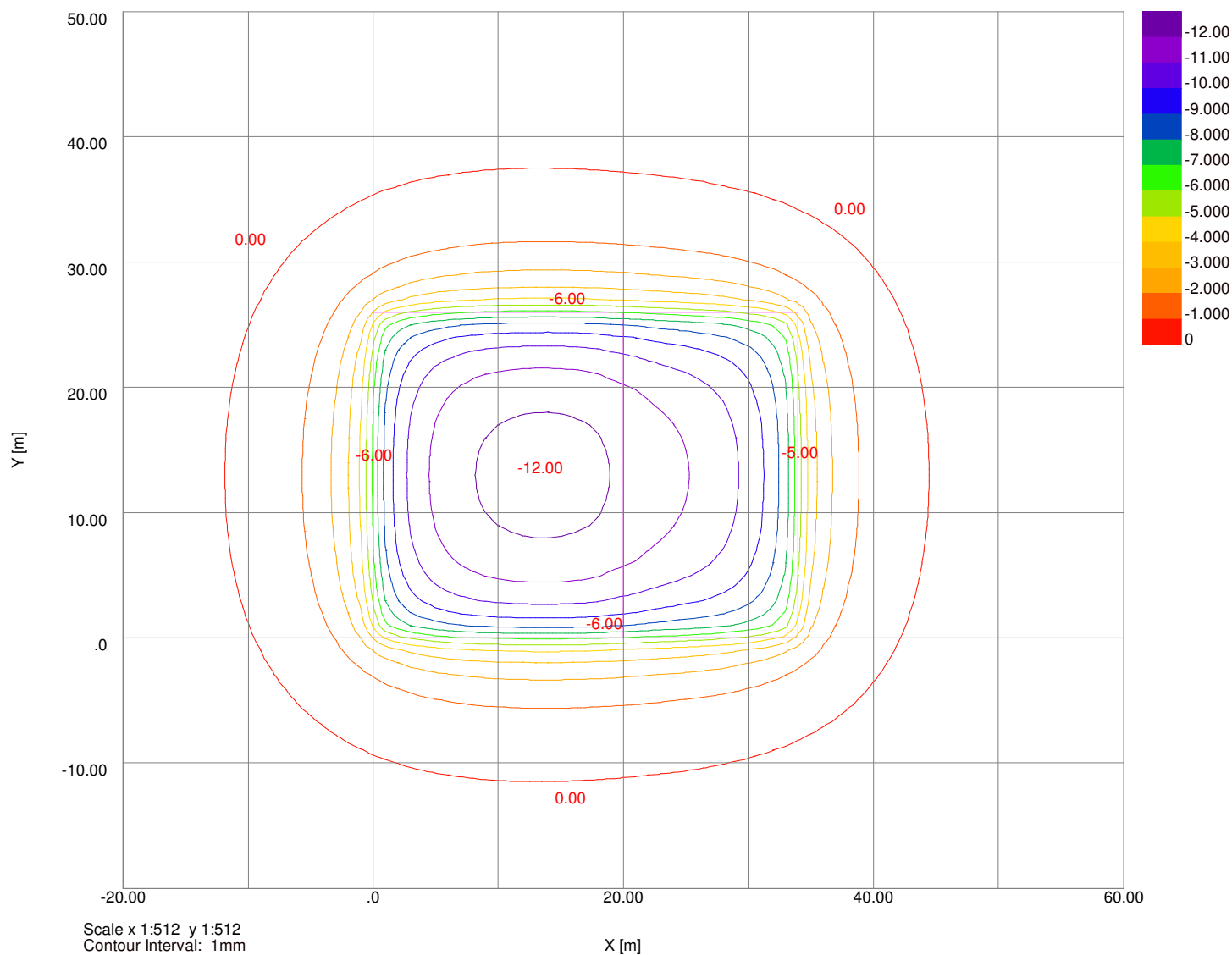


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Horizontal Displacement Contours: Grid 3 (level 19.500m) Interval 1mm



Settlement Contours : Grid 1 at 19.5000m





Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

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Analysis Options

Analysis: Boussinesq
Global Poisson's ratio: 0.20
Maximum allowable ratio between values of E: 1.5
Horizontal rigid boundary level: -10.50 [m OD]
Displacements at area centroids calculated.

Soil ProfilesSoil Profile 1

Layer	Level at top	Number of intermediate displacement levels	Youngs Modulus	Poissons ratio	Non-linear curve
	[mOD]		Top [kN/m ²]	Btm [kN/m ²]	
1	19.500	2	2500.0	2500.0	0.50000 None
2	17.000	3	7000.0	8000.0	0.20000 None
3	14.000	13	7000.0	10000.0	0.50000 None
4	1.0000	11	15000.0	18000.0	0.50000 None

Soil Zones

Zone	Name	X coordinates min max	Y coordinates min max	Profile
1	Soil Zone 1	-25.00000 55.00000	-20.00000 45.00000	Soil Profile 1

Load Data

Load ref.	Name	Shape	Orientation of Plane	Centre of load (Global)			Load position		Width x or Radius	Length y	Polygon Coordinates	Rectangle tolerance	Number of rectangles	Load value		
				X	Y	Z (level)	Angle of local x from	Normal (local z)						Tangential (local x)	Tangential (local y)	
[m]	[m]	[m]	[Degrees]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	[m]	
1	Load 1	Rectangular	Horizontal	10.00000	13.00000	15.00000	0.0	20.000	26.000	N/A			1	-90.000	0.0	0.0
2	Load 2	Rectangular	Horizontal	27.00000	13.00000	13.00000	0.0	14.000	26.000	N/A			1	-90.000	0.0	0.0

Displacement Data

Ref.	Type	Name	Direction of Extrusion	First point X Y Z	Line/Line for extrusion Second point X Y Z	No. of intrvl across extrusion/line	Extrusion Depth	No. of intrvl along extrusion	Calculate	Show Detailed results
				[m] [m] [m]	[m] [m] [m]		[m]			
1	Grid	Grid 1	Global X	-25.00000 -20.00000 19.50000	N/A 45.00000 19.50000	65	80.00000	80	Yes	No
2	Grid	Grid 2	Global X	-25.00000 -20.00000 15.00000	N/A 45.00000 15.00000	65	80.00000	80	Yes	No
3	Grid	Grid 3	Global X	-25.00000 -20.00000 13.00000	N/A 45.00000 13.00000	65	80.00000	80	Yes	No

RESULTS FOR GRIDS

Analysis: Boussinesq
Global Poisson's ratio: 0.20
Horizontal rigid boundary level: -10.50 [m OD]

The maximum displacement difference between the Boussinesq method (-11.053mm) and the Mindlin method (-5.0242mm) occurs at point X = 25.00000m, Y = 13.00000m, level = 19.500mOD, and is 6.0291mm.

Name	Location X Y	Displacement Z[Level] Z	Stresses Calc Level Vert Stress Sum Princ	Vert Strain
	[m] [m]	[mm] [mm]	[mOD] [kN/m ²] [kN/m ²]	[%]
Load 1	-10.00000 -13.00000	-12.420 15.00000	-12.755 89.999	-211.75 -847.30E-6
Load 2	27.00000 13.00000	-10.671 13.00000	12.566 -90.626	-218.37 -364.94E-6
Grid 1	-25.00000 -20.00000	0.15108 19.50000	19.083 0.0	0.0 0.0
	-24.00000 -20.00000	0.15536 19.50000	19.083 0.0	0.0 0.0
	-23.00000 -20.00000	0.15968 19.50000	19.083 0.0	0.0 0.0
	-22.00000 -20.00000	0.16402 19.50000	19.083 0.0	0.0 0.0
	-21.00000 -20.00000	0.16837 19.50000	19.083 0.0	0.0 0.0
	-20.00000 -20.00000	0.17273 19.50000	19.083 0.0	0.0 0.0
	-19.00000 -20.00000	0.17706 19.50000	19.083 0.0	0.0 0.0
	-18.00000 -20.00000	0.18136 19.50000	19.083 0.0	0.0 0.0
	-17.00000 -20.00000	0.18561 19.50000	19.083 0.0	0.0 0.0
	-16.00000 -20.00000	0.18979 19.50000	19.083 0.0	0.0 0.0
	-15.00000 -20.00000	0.19388 19.50000	19.083 0.0	0.0 0.0
	-14.00000 -20.00000	0.19786 19.50000	19.083 0.0	0.0 0.0
	-13.00000 -20.00000	0.20172 19.50000	19.083 0.0	0.0 0.0
	-12.00000 -20.00000	0.20544 19.50000	19.083 0.0	0.0 0.0
	-11.00000 -20.00000	0.20900 19.50000	19.083 0.0	0.0 0.0
	-10.00000 -20.00000	0.21238 19.50000	19.083 0.0	0.0 0.0
	-9.00000 -20.00000	0.21558 19.50000	19.083 0.0	0.0 0.0
	-8.00000 -20.00000	0.21858 19.50000	19.083 0.0	0.0 0.0
	-7.00000 -20.00000	0.22138 19.50000	19.083 0.0	0.0 0.0
	-6.00000 -20.00000	0.22398 19.50000	19.083 0.0	0.0 0.0
	-5.00000 -20.00000	0.22638 19.50000	19.083 0.0	0.0 0.0
	-4.00000 -20.00000	0.22858 19.50000	19.083 0.0	0.0 0.0
	-3.00000 -20.00000	0.23059 19.50000	19.083 0.0	0.0 0.0
	-2.00000 -20.00000	0.23244 19.50000	19.083 0.0	0.0 0.0
	-1.00000 -20.00000	0.23412 19.50000	19.083 0.0	0.0 0.0
	0.00000 -20.00000	0.23567 19.50000	19.083 0.0	0.0 0.0
	1.00000 -20.00000	0.23710 19.50000	19.083 0.0	0.0 0.0
	2.00000 -20.00000	0.23843 19.50000	19.083 0.0	0.0 0.0
	3.00000 -20.00000	0.23968 19.50000	19.083 0.0	0.0 0.0
	4.00000 -20.00000	0.24088 19.50000	19.083 0.0	0.0 0.0
	5.00000 -20.00000	0.24202 19.50000	19.083 0.0	0.0 0.0
	6.00000 -20.00000	0.24313 19.50000	19.083 0.0	0.0 0.0
	7.00000 -20.00000	0.24422 19.50000	19.083 0.0	0.0 0.0
	8.00000 -20.00000	0.24530 19.50000	19.083 0.0	0.0 0.0
	9.00000 -20.00000	0.24636 19.50000	19.083 0.0	0.0 0.0
	10.00000 -20.00000	0.24740 19.50000	19.083 0.0	0.0 0.0
	11.00000 -20.00000	0.24843 19.50000	19.083 0.0	0.0 0.0
	12.00000 -20.00000	0.24943 19.50000	19.083 0.0	0.0 0.0
	13.00000 -20.00000	0.25040 19.50000	19.083 0.0	0.0 0.0
	14.00000 -20.00000	0.25133 19.50000	19.083 0.0	0.0 0.0
	15.00000 -20.00000	0.25221 19.50000	19.083 0.0	0.0 0.0
	16.00000 -20.00000	0.25302 19.50000	19.083 0.0	0.0 0.0
	17.00000 -20.00000	0.25376 19.50000	19.083 0.0	0.0 0.0
	18.00000 -20.00000	0.25441 19.50000	19.083 0.0	0.0 0.0
	19.00000 -20.00000	0.25496 19.50000	19.083 0.0	0.0 0.0
	20.00000 -20.00000	0.25541 19.50000	19.083 0.0	0.0 0.0
	21.00000 -20.00000	0.25574 19.50000	19.083 0.0	0.0 0.0
	22.00000 -20.00000	0.25595 19.50000	19.083 0.0	0.0 0.0
	23.00000 -20.00000	0.25602 19.50000	19.083 0.0	0.0 0.0
	24.00000 -20.00000	0.25596 19.50000	19.083 0.0	0.0 0.0
	25.00000 -20.00000	0.25575 19.50000	19.083 0.0	0.0 0.0
	26.00000 -20.00000	0.25540 19.50000	19.083 0.0	0.0 0.0
	27.00000 -20.00000	0.25489 19.50000	19.083 0.0	0.0 0.0
	28.00000 -20.00000	0.25423 19.50000	19.083 0.0	0.0 0.0
	29.00000 -20.00000	0.25339 19.50000	19.083 0.0	0.0 0.0
	30.00000 -20.00000	0.25239 19.50000	19.083 0.0	0.0 0.0
	31.00000 -20.00000	0.25121 19.50000	19.083 0.0	0.0 0.0
	32.00000 -20.00000	0.24984 19.50000	19.083 0.0	0.0 0.0
	33.00000 -20.00000	0.24827 19.50000	19.083 0.0	0.0 0.0
	34.00000 -20.00000	0.24650 19.50000	19.083 0.0	0.0 0.0
	35.00000 -20.00000	0.24453 19.50000	19.083 0.0	0.0 0.0
	36.00000 -20.00000	0.24233 19.50000	19.083 0.0	0.0 0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

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Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
37.00000	-20.00000	19.50000	0.23992	19.083	0.0	0.0	0.0
38.00000	-20.00000	19.50000	0.23728	19.083	0.0	0.0	0.0
39.00000	-20.00000	19.50000	0.23441	19.083	0.0	0.0	0.0
40.00000	-20.00000	19.50000	0.23133	19.083	0.0	0.0	0.0
41.00000	-20.00000	19.50000	0.22803	19.083	0.0	0.0	0.0
42.00000	-20.00000	19.50000	0.22452	19.083	0.0	0.0	0.0
43.00000	-20.00000	19.50000	0.22082	19.083	0.0	0.0	0.0
44.00000	-20.00000	19.50000	0.21694	19.083	0.0	0.0	0.0
45.00000	-20.00000	19.50000	0.21289	19.083	0.0	0.0	0.0
46.00000	-20.00000	19.50000	0.20869	19.083	0.0	0.0	0.0
47.00000	-20.00000	19.50000	0.20437	19.083	0.0	0.0	0.0
48.00000	-20.00000	19.50000	0.19993	19.083	0.0	0.0	0.0
49.00000	-20.00000	19.50000	0.19541	19.083	0.0	0.0	0.0
50.00000	-20.00000	19.50000	0.19081	19.083	0.0	0.0	0.0
51.00000	-20.00000	19.50000	0.18617	19.083	0.0	0.0	0.0
52.00000	-20.00000	19.50000	0.18149	19.083	0.0	0.0	0.0
53.00000	-20.00000	19.50000	0.17680	19.083	0.0	0.0	0.0
54.00000	-20.00000	19.50000	0.17211	19.083	0.0	0.0	0.0
55.00000	-20.00000	19.50000	0.16744	19.083	0.0	0.0	0.0
-25.00000	-19.00000	19.50000	0.15459	19.083	0.0	0.0	0.0
-24.00000	-19.00000	19.50000	0.15099	19.083	0.0	0.0	0.0
-23.00000	-19.00000	19.50000	0.16342	19.083	0.0	0.0	0.0
-22.00000	-19.00000	19.50000	0.16787	19.083	0.0	0.0	0.0
-21.00000	-19.00000	19.50000	0.17232	19.083	0.0	0.0	0.0
-20.00000	-19.00000	19.50000	0.17676	19.083	0.0	0.0	0.0
-19.00000	-19.00000	19.50000	0.18116	19.083	0.0	0.0	0.0
-18.00000	-19.00000	19.50000	0.18552	19.083	0.0	0.0	0.0
-17.00000	-19.00000	19.50000	0.18980	19.083	0.0	0.0	0.0
-16.00000	-19.00000	19.50000	0.19399	19.083	0.0	0.0	0.0
-15.00000	-19.00000	19.50000	0.19806	19.083	0.0	0.0	0.0
-14.00000	-19.00000	19.50000	0.20200	19.083	0.0	0.0	0.0
-13.00000	-19.00000	19.50000	0.20578	19.083	0.0	0.0	0.0
-12.00000	-19.00000	19.50000	0.20937	19.083	0.0	0.0	0.0
-11.00000	-19.00000	19.50000	0.21277	19.083	0.0	0.0	0.0
-10.00000	-19.00000	19.50000	0.21595	19.083	0.0	0.0	0.0
-9.00000	-19.00000	19.50000	0.21890	19.083	0.0	0.0	0.0
-8.00000	-19.00000	19.50000	0.22161	19.083	0.0	0.0	0.0
-7.00000	-19.00000	19.50000	0.22407	19.083	0.0	0.0	0.0
-6.00000	-19.00000	19.50000	0.22628	19.083	0.0	0.0	0.0
-5.00000	-19.00000	19.50000	0.22826	19.083	0.0	0.0	0.0
-4.00000	-19.00000	19.50000	0.22999	19.083	0.0	0.0	0.0
-3.00000	-19.00000	19.50000	0.23152	19.083	0.0	0.0	0.0
-2.00000	-19.00000	19.50000	0.23284	19.083	0.0	0.0	0.0
-1.00000	-19.00000	19.50000	0.23399	19.083	0.0	0.0	0.0
0.00000	-19.00000	19.50000	0.23499	19.083	0.0	0.0	0.0
1.00000	-19.00000	19.50000	0.23588	19.083	0.0	0.0	0.0
2.00000	-19.00000	19.50000	0.23668	19.083	0.0	0.0	0.0
3.00000	-19.00000	19.50000	0.23742	19.083	0.0	0.0	0.0
4.00000	-19.00000	19.50000	0.23813	19.083	0.0	0.0	0.0
5.00000	-19.00000	19.50000	0.23882	19.083	0.0	0.0	0.0
6.00000	-19.00000	19.50000	0.23953	19.083	0.0	0.0	0.0
7.00000	-19.00000	19.50000	0.24025	19.083	0.0	0.0	0.0
8.00000	-19.00000	19.50000	0.24102	19.083	0.0	0.0	0.0
9.00000	-19.00000	19.50000	0.24182	19.083	0.0	0.0	0.0
10.00000	-19.00000	19.50000	0.24266	19.083	0.0	0.0	0.0
11.00000	-19.00000	19.50000	0.24353	19.083	0.0	0.0	0.0
12.00000	-19.00000	19.50000	0.24443	19.083	0.0	0.0	0.0
13.00000	-19.00000	19.50000	0.24536	19.083	0.0	0.0	0.0
14.00000	-19.00000	19.50000	0.24629	19.083	0.0	0.0	0.0
15.00000	-19.00000	19.50000	0.24721	19.083	0.0	0.0	0.0
16.00000	-19.00000	19.50000	0.24812	19.083	0.0	0.0	0.0
17.00000	-19.00000	19.50000	0.24899	19.083	0.0	0.0	0.0
18.00000	-19.00000	19.50000	0.24982	19.083	0.0	0.0	0.0
19.00000	-19.00000	19.50000	0.25058	19.083	0.0	0.0	0.0
20.00000	-19.00000	19.50000	0.25127	19.083	0.0	0.0	0.0
21.00000	-19.00000	19.50000	0.25188	19.083	0.0	0.0	0.0
22.00000	-19.00000	19.50000	0.25239	19.083	0.0	0.0	0.0
23.00000	-19.00000	19.50000	0.25281	19.083	0.0	0.0	0.0
24.00000	-19.00000	19.50000	0.25311	19.083	0.0	0.0	0.0
25.00000	-19.00000	19.50000	0.25329	19.083	0.0	0.0	0.0
26.00000	-19.00000	19.50000	0.25344	19.083	0.0	0.0	0.0
27.00000	-19.00000	19.50000	0.25327	19.083	0.0	0.0	0.0
28.00000	-19.00000	19.50000	0.25305	19.083	0.0	0.0	0.0
29.00000	-19.00000	19.50000	0.25268	19.083	0.0	0.0	0.0
30.00000	-19.00000	19.50000	0.25215	19.083	0.0	0.0	0.0
31.00000	-19.00000	19.50000	0.25145	19.083	0.0	0.0	0.0
32.00000	-19.00000	19.50000	0.25056	19.083	0.0	0.0	0.0
33.00000	-19.00000	19.50000	0.24948	19.083	0.0	0.0	0.0
34.00000	-19.00000	19.50000	0.24818	19.083	0.0	0.0	0.0
35.00000	-19.00000	19.50000	0.24665	19.083	0.0	0.0	0.0
36.00000	-19.00000	19.50000	0.24489	19.083	0.0	0.0	0.0
37.00000	-19.00000	19.50000	0.24288	19.083	0.0	0.0	0.0
38.00000	-19.00000	19.50000	0.24061	19.083	0.0	0.0	0.0
39.00000	-19.00000	19.50000	0.23807	19.083	0.0	0.0	0.0
40.00000	-19.00000	19.50000	0.23528	19.083	0.0	0.0	0.0
41.00000	-19.00000	19.50000	0.23224	19.083	0.0	0.0	0.0
42.00000	-19.00000	19.50000	0.22894	19.083	0.0	0.0	0.0
43.00000	-19.00000	19.50000	0.22540	19.083	0.0	0.0	0.0
44.00000	-19.00000	19.50000	0.22165	19.083	0.0	0.0	0.0
45.00000	-19.00000	19.50000	0.21769	19.083	0.0	0.0	0.0
46.00000	-19.00000	19.50000	0.21354	19.083	0.0	0.0	0.0
47.00000	-19.00000	19.50000	0.20924	19.083	0.0	0.0	0.0
48.00000	-19.00000	19.50000	0.20479	19.083	0.0	0.0	0.0
49.00000	-19.00000	19.50000	0.20022	19.083	0.0	0.0	0.0
50.00000	-19.00000	19.50000	0.19557	19.083	0.0	0.0	0.0
51.00000	-19.00000	19.50000	0.19084	19.083	0.0	0.0	0.0
52.00000	-19.00000	19.50000	0.18606	19.083	0.0	0.0	0.0
53.00000	-19.00000	19.50000	0.18126	19.083	0.0	0.0	0.0
54.00000	-19.00000	19.50000	0.17644	19.083	0.0	0.0	0.0
55.00000	-19.00000	19.50000	0.17164	19.083	0.0	0.0	0.0
-25.00000	-18.00000	19.50000	0.15808	19.083	0.0	0.0	0.0
-24.00000	-18.00000	19.50000	0.16259	19.083	0.0	0.0	0.0
-23.00000	-18.00000	19.50000	0.16713	19.083	0.0	0.0	0.0
-22.00000	-18.00000	19.50000	0.17168	19.083	0.0	0.0	0.0
-21.00000	-18.00000	19.50000	0.17622	19.083	0.0	0.0	0.0
-20.00000	-18.00000	19.50000	0.18073	19.083	0.0	0.0	0.0
-19.00000	-18.00000	19.50000	0.18518	19.083	0.0	0.0	0.0
-18.00000	-18.00000	19.50000	0.18957	19.083	0.0	0.0	0.0
-17.00000	-18.00000	19.50000	0.19386	19.083	0.0	0.0	0.0
-16.00000	-18.00000	19.50000	0.19803	19.083	0.0	0.0	0.0
-15.00000	-18.00000	19.50000	0.20204	19.083	0.0	0.0	0.0
-14.00000	-18.00000	19.50000	0.20588	19.083	0.0	0.0	0.0
-13.00000	-18.00000	19.50000	0.20952	19.083	0.0	0.0	0.0
-12.00000	-18.00000	19.50000	0.21293	19.083	0.0	0.0	0.0
-11.00000	-18.00000	19.50000	0.21609	19.083	0.0	0.0	0.0
-10.00000	-18.00000	19.50000	0.21897	19.083	0.0	0.0	0.0
-9.00000	-18.00000	19.50000	0.22157	19.083	0.0	0.0	0.0
-8.00000	-18.00000	19.50000	0.22387	19.083	0.0	0.0	0.0
-7.00000	-18.00000	19.50000	0.22586	19.083	0.0	0.0	0.0
-6.00000	-18.00000	19.50000	0.22755	19.083	0.0	0.0	0.0
-5.00000	-18.00000	19.50000	0.22894	19.083	0.0	0.0	0.0
-4.00000	-18.00000	19.50000	0.23005	19.083	0.0	0.0	0.0
-3.00000	-18.00000	19.50000	0.23091	19.083	0.0	0.0	0.0
-2.00000	-18.00000	19.50000	0.23153	19.083	0.0	0.0	0.0
-1.00000	-18.00000	19.50000	0.23195	19.083	0.0	0.0	0.0
0.00000	-18.00000	19.50000	0.23222	19.083	0.0	0.0	0.0
1.00000	-18.00000	19.50000	0.23238	19.083	0.0	0.0	0.0
2.00000	-18.00000	19.50000	0.23246	19.083	0.0	0.0	0.0
3.00000	-18.00000	19.50000	0.23251	19.083	0.0	0.0	0.0
4.00000	-18.00000	19.50000	0.23257	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	5.00000	-18.00000	19.50000	0.23266	19.083	0.0	0.0
	6.00000	-18.00000	19.50000	0.23281	19.083	0.0	0.0
	7.00000	-18.00000	19.50000	0.23305	19.083	0.0	0.0
	8.00000	-18.00000	19.50000	0.23339	19.083	0.0	0.0
	9.00000	-18.00000	19.50000	0.23384	19.083	0.0	0.0
	10.00000	-18.00000	19.50000	0.23440	19.083	0.0	0.0
	11.00000	-18.00000	19.50000	0.23506	19.083	0.0	0.0
	12.00000	-18.00000	19.50000	0.23582	19.083	0.0	0.0
	13.00000	-18.00000	19.50000	0.23667	19.083	0.0	0.0
	14.00000	-18.00000	19.50000	0.23759	19.083	0.0	0.0
	15.00000	-18.00000	19.50000	0.23856	19.083	0.0	0.0
	16.00000	-18.00000	19.50000	0.23958	19.083	0.0	0.0
	17.00000	-18.00000	19.50000	0.24061	19.083	0.0	0.0
	18.00000	-18.00000	19.50000	0.24165	19.083	0.0	0.0
	19.00000	-18.00000	19.50000	0.24267	19.083	0.0	0.0
	20.00000	-18.00000	19.50000	0.24367	19.083	0.0	0.0
	21.00000	-18.00000	19.50000	0.24462	19.083	0.0	0.0
	22.00000	-18.00000	19.50000	0.24552	19.083	0.0	0.0
	23.00000	-18.00000	19.50000	0.24636	19.083	0.0	0.0
	24.00000	-18.00000	19.50000	0.24713	19.083	0.0	0.0
	25.00000	-18.00000	19.50000	0.24781	19.083	0.0	0.0
	26.00000	-18.00000	19.50000	0.24839	19.083	0.0	0.0
	27.00000	-18.00000	19.50000	0.24888	19.083	0.0	0.0
	28.00000	-18.00000	19.50000	0.24925	19.083	0.0	0.0
	29.00000	-18.00000	19.50000	0.24949	19.083	0.0	0.0
	30.00000	-18.00000	19.50000	0.24959	19.083	0.0	0.0
	31.00000	-18.00000	19.50000	0.24953	19.083	0.0	0.0
	32.00000	-18.00000	19.50000	0.24929	19.083	0.0	0.0
	33.00000	-18.00000	19.50000	0.24886	19.083	0.0	0.0
	34.00000	-18.00000	19.50000	0.24819	19.083	0.0	0.0
	35.00000	-18.00000	19.50000	0.24729	19.083	0.0	0.0
	36.00000	-18.00000	19.50000	0.24611	19.083	0.0	0.0
	37.00000	-18.00000	19.50000	0.24466	19.083	0.0	0.0
	38.00000	-18.00000	19.50000	0.24290	19.083	0.0	0.0
	39.00000	-18.00000	19.50000	0.24084	19.083	0.0	0.0
	40.00000	-18.00000	19.50000	0.23847	19.083	0.0	0.0
	41.00000	-18.00000	19.50000	0.23579	19.083	0.0	0.0
	42.00000	-18.00000	19.50000	0.23281	19.083	0.0	0.0
	43.00000	-18.00000	19.50000	0.22953	19.083	0.0	0.0
	44.00000	-18.00000	19.50000	0.22598	19.083	0.0	0.0
	45.00000	-18.00000	19.50000	0.22218	19.083	0.0	0.0
	46.00000	-18.00000	19.50000	0.21815	19.083	0.0	0.0
	47.00000	-18.00000	19.50000	0.21391	19.083	0.0	0.0
	48.00000	-18.00000	19.50000	0.20949	19.083	0.0	0.0
	49.00000	-18.00000	19.50000	0.20492	19.083	0.0	0.0
	50.00000	-18.00000	19.50000	0.20023	19.083	0.0	0.0
	51.00000	-18.00000	19.50000	0.19544	19.083	0.0	0.0
	52.00000	-18.00000	19.50000	0.19059	19.083	0.0	0.0
	53.00000	-18.00000	19.50000	0.18568	19.083	0.0	0.0
	54.00000	-18.00000	19.50000	0.18076	19.083	0.0	0.0
	55.00000	-18.00000	19.50000	0.17583	19.083	0.0	0.0
	-25.00000	-17.00000	19.50000	0.16155	19.083	0.0	0.0
	-24.00000	-17.00000	19.50000	0.16617	19.083	0.0	0.0
	-23.00000	-17.00000	19.50000	0.17081	19.083	0.0	0.0
	-22.00000	-17.00000	19.50000	0.17544	19.083	0.0	0.0
	-21.00000	-17.00000	19.50000	0.18005	19.083	0.0	0.0
	-20.00000	-17.00000	19.50000	0.18461	19.083	0.0	0.0
	-19.00000	-17.00000	19.50000	0.18910	19.083	0.0	0.0
	-18.00000	-17.00000	19.50000	0.19349	19.083	0.0	0.0
	-17.00000	-17.00000	19.50000	0.19776	19.083	0.0	0.0
	-16.00000	-17.00000	19.50000	0.20186	19.083	0.0	0.0
	-15.00000	-17.00000	19.50000	0.20577	19.083	0.0	0.0
	-14.00000	-17.00000	19.50000	0.20945	19.083	0.0	0.0
	-13.00000	-17.00000	19.50000	0.21288	19.083	0.0	0.0
	-12.00000	-17.00000	19.50000	0.21603	19.083	0.0	0.0
	-11.00000	-17.00000	19.50000	0.21895	19.083	0.0	0.0
	-10.00000	-17.00000	19.50000	0.22133	19.083	0.0	0.0
	-9.00000	-17.00000	19.50000	0.22346	19.083	0.0	0.0
	-8.00000	-17.00000	19.50000	0.22520	19.083	0.0	0.0
	-7.00000	-17.00000	19.50000	0.22657	19.083	0.0	0.0
	-6.00000	-17.00000	19.50000	0.22755	19.083	0.0	0.0
	-5.00000	-17.00000	19.50000	0.22817	19.083	0.0	0.0
	-4.00000	-17.00000	19.50000	0.22845	19.083	0.0	0.0
	-3.00000	-17.00000	19.50000	0.22841	19.083	0.0	0.0
	-2.00000	-17.00000	19.50000	0.22809	19.083	0.0	0.0
	-1.00000	-17.00000	19.50000	0.22756	19.083	0.0	0.0
	0.00000	-17.00000	19.50000	0.22685	19.083	0.0	0.0
	1.00000	-17.00000	19.50000	0.22604	19.083	0.0	0.0
	2.00000	-17.00000	19.50000	0.22517	19.083	0.0	0.0
	3.00000	-17.00000	19.50000	0.22430	19.083	0.0	0.0
	4.00000	-17.00000	19.50000	0.22349	19.083	0.0	0.0
	5.00000	-17.00000	19.50000	0.22278	19.083	0.0	0.0
	6.00000	-17.00000	19.50000	0.22221	19.083	0.0	0.0
	7.00000	-17.00000	19.50000	0.22180	19.083	0.0	0.0
	8.00000	-17.00000	19.50000	0.22158	19.083	0.0	0.0
	9.00000	-17.00000	19.50000	0.22156	19.083	0.0	0.0
	10.00000	-17.00000	19.50000	0.22174	19.083	0.0	0.0
	11.00000	-17.00000	19.50000	0.22212	19.083	0.0	0.0
	12.00000	-17.00000	19.50000	0.22269	19.083	0.0	0.0
	13.00000	-17.00000	19.50000	0.22342	19.083	0.0	0.0
	14.00000	-17.00000	19.50000	0.22421	19.083	0.0	0.0
	15.00000	-17.00000	19.50000	0.22534	19.083	0.0	0.0
	16.00000	-17.00000	19.50000	0.22647	19.083	0.0	0.0
	17.00000	-17.00000	19.50000	0.22770	19.083	0.0	0.0
	18.00000	-17.00000	19.50000	0.22899	19.083	0.0	0.0
	19.00000	-17.00000	19.50000	0.23034	19.083	0.0	0.0
	20.00000	-17.00000	19.50000	0.23171	19.083	0.0	0.0
	21.00000	-17.00000	19.50000	0.23310	19.083	0.0	0.0
	22.00000	-17.00000	19.50000	0.23449	19.083	0.0	0.0
	23.00000	-17.00000	19.50000	0.23587	19.083	0.0	0.0
	24.00000	-17.00000	19.50000	0.23721	19.083	0.0	0.0
	25.00000	-17.00000	19.50000	0.23853	19.083	0.0	0.0
	26.00000	-17.00000	19.50000	0.23979	19.083	0.0	0.0
	27.00000	-17.00000	19.50000	0.24100	19.083	0.0	0.0
	28.00000	-17.00000	19.50000	0.24213	19.083	0.0	0.0
	29.00000	-17.00000	19.50000	0.24317	19.083	0.0	0.0
	30.00000	-17.00000	19.50000	0.24410	19.083	0.0	0.0
	31.00000	-17.00000	19.50000	0.24488	19.083	0.0	0.0
	32.00000	-17.00000	19.50000	0.24550	19.083	0.0	0.0
	33.00000	-17.00000	19.50000	0.24592	19.083	0.0	0.0
	34.00000	-17.00000	19.50000	0.24611	19.083	0.0	0.0
	35.00000	-17.00000	19.50000	0.24603	19.083	0.0	0.0
	36.00000	-17.00000	19.50000	0.24566	19.083	0.0	0.0
	37.00000	-17.00000	19.50000	0.24496	19.083	0.0	0.0
	38.00000	-17.00000	19.50000	0.24391	19.083	0.0	0.0
	39.00000	-17.00000	19.50000	0.24249	19.083	0.0	0.0
	40.00000	-17.00000	19.50000	0.24070	19.083	0.0	0.0
	41.00000	-17.00000	19.50000	0.23853	19.083	0.0	0.0
	42.00000	-17.00000	19.50000	0.23599	19.083	0.0	0.0
	43.00000	-17.00000	19.50000	0.23309	19.083	0.0	0.0
	44.00000	-17.00000	19.50000	0.22985	19.083	0.0	0.0
	45.00000	-17.00000	19.50000	0.22629	19.083	0.0	0.0
	46.00000	-17.00000	19.50000	0.22244	19.083	0.0	0.0
	47.00000	-17.00000	19.50000	0.21833	19.083	0.0	0.0
	48.00000	-17.00000	19.50000	0.21399	19.083	0.0	0.0
	49.00000	-17.00000	19.50000	0.20946	19.083	0.0	0.0
	50.00000	-17.00000	19.50000	0.20478	19.083	0.0	0.0
	51.00000	-17.00000	19.50000	0.19996	19.083	0.0	0.0
	52.00000	-17.00000	19.50000	0.19504	19.083	0.0	0.0
	53.00000	-17.00000	19.50000	0.19006	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
54.00000	-17.00000	19.50000	0.18503	19.083	0.0	0.0	0.0
55.00000	-17.00000	19.50000	0.17999	19.083	0.0	0.0	0.0
-25.00000	-16.00000	19.50000	0.16499	19.083	0.0	0.0	0.0
-24.00000	-16.00000	19.50000	0.16971	19.083	0.0	0.0	0.0
-23.00000	-16.00000	19.50000	0.17443	19.083	0.0	0.0	0.0
-22.00000	-16.00000	19.50000	0.17914	19.083	0.0	0.0	0.0
-21.00000	-16.00000	19.50000	0.18380	19.083	0.0	0.0	0.0
-20.00000	-16.00000	19.50000	0.18840	19.083	0.0	0.0	0.0
-19.00000	-16.00000	19.50000	0.19289	19.083	0.0	0.0	0.0
-18.00000	-16.00000	19.50000	0.19726	19.083	0.0	0.0	0.0
-17.00000	-16.00000	19.50000	0.20145	19.083	0.0	0.0	0.0
-16.00000	-16.00000	19.50000	0.20545	19.083	0.0	0.0	0.0
-15.00000	-16.00000	19.50000	0.20919	19.083	0.0	0.0	0.0
-14.00000	-16.00000	19.50000	0.21266	19.083	0.0	0.0	0.0
-13.00000	-16.00000	19.50000	0.21580	19.083	0.0	0.0	0.0
-12.00000	-16.00000	19.50000	0.21858	19.083	0.0	0.0	0.0
-11.00000	-16.00000	19.50000	0.22095	19.083	0.0	0.0	0.0
-10.00000	-16.00000	19.50000	0.22290	19.083	0.0	0.0	0.0
-9.00000	-16.00000	19.50000	0.22440	19.083	0.0	0.0	0.0
-8.00000	-16.00000	19.50000	0.22542	19.083	0.0	0.0	0.0
-7.00000	-16.00000	19.50000	0.22596	19.083	0.0	0.0	0.0
-6.00000	-16.00000	19.50000	0.22602	19.083	0.0	0.0	0.0
-5.00000	-16.00000	19.50000	0.22562	19.083	0.0	0.0	0.0
-4.00000	-16.00000	19.50000	0.22480	19.083	0.0	0.0	0.0
-3.00000	-16.00000	19.50000	0.22359	19.083	0.0	0.0	0.0
-2.00000	-16.00000	19.50000	0.22205	19.083	0.0	0.0	0.0
-1.00000	-16.00000	19.50000	0.22024	19.083	0.0	0.0	0.0
0.00000	-16.00000	19.50000	0.21826	19.083	0.0	0.0	0.0
1.00000	-16.00000	19.50000	0.21616	19.083	0.0	0.0	0.0
2.00000	-16.00000	19.50000	0.21404	19.083	0.0	0.0	0.0
3.00000	-16.00000	19.50000	0.21197	19.083	0.0	0.0	0.0
4.00000	-16.00000	19.50000	0.21002	19.083	0.0	0.0	0.0
5.00000	-16.00000	19.50000	0.20826	19.083	0.0	0.0	0.0
6.00000	-16.00000	19.50000	0.20674	19.083	0.0	0.0	0.0
7.00000	-16.00000	19.50000	0.20549	19.083	0.0	0.0	0.0
8.00000	-16.00000	19.50000	0.20454	19.083	0.0	0.0	0.0
9.00000	-16.00000	19.50000	0.20391	19.083	0.0	0.0	0.0
10.00000	-16.00000	19.50000	0.20360	19.083	0.0	0.0	0.0
11.00000	-16.00000	19.50000	0.20360	19.083	0.0	0.0	0.0
12.00000	-16.00000	19.50000	0.20390	19.083	0.0	0.0	0.0
13.00000	-16.00000	19.50000	0.20448	19.083	0.0	0.0	0.0
14.00000	-16.00000	19.50000	0.20532	19.083	0.0	0.0	0.0
15.00000	-16.00000	19.50000	0.20640	19.083	0.0	0.0	0.0
16.00000	-16.00000	19.50000	0.20768	19.083	0.0	0.0	0.0
17.00000	-16.00000	19.50000	0.20914	19.083	0.0	0.0	0.0
18.00000	-16.00000	19.50000	0.21075	19.083	0.0	0.0	0.0
19.00000	-16.00000	19.50000	0.21248	19.083	0.0	0.0	0.0
20.00000	-16.00000	19.50000	0.21433	19.083	0.0	0.0	0.0
21.00000	-16.00000	19.50000	0.21625	19.083	0.0	0.0	0.0
22.00000	-16.00000	19.50000	0.21825	19.083	0.0	0.0	0.0
23.00000	-16.00000	19.50000	0.22029	19.083	0.0	0.0	0.0
24.00000	-16.00000	19.50000	0.22238	19.083	0.0	0.0	0.0
25.00000	-16.00000	19.50000	0.22449	19.083	0.0	0.0	0.0
26.00000	-16.00000	19.50000	0.22662	19.083	0.0	0.0	0.0
27.00000	-16.00000	19.50000	0.22875	19.083	0.0	0.0	0.0
28.00000	-16.00000	19.50000	0.23085	19.083	0.0	0.0	0.0
29.00000	-16.00000	19.50000	0.23292	19.083	0.0	0.0	0.0
30.00000	-16.00000	19.50000	0.23491	19.083	0.0	0.0	0.0
31.00000	-16.00000	19.50000	0.23680	19.083	0.0	0.0	0.0
32.00000	-16.00000	19.50000	0.23854	19.083	0.0	0.0	0.0
33.00000	-16.00000	19.50000	0.24009	19.083	0.0	0.0	0.0
34.00000	-16.00000	19.50000	0.24140	19.083	0.0	0.0	0.0
35.00000	-16.00000	19.50000	0.24243	19.083	0.0	0.0	0.0
36.00000	-16.00000	19.50000	0.24311	19.083	0.0	0.0	0.0
37.00000	-16.00000	19.50000	0.24342	19.083	0.0	0.0	0.0
38.00000	-16.00000	19.50000	0.24331	19.083	0.0	0.0	0.0
39.00000	-16.00000	19.50000	0.24276	19.083	0.0	0.0	0.0
40.00000	-16.00000	19.50000	0.24175	19.083	0.0	0.0	0.0
41.00000	-16.00000	19.50000	0.24027	19.083	0.0	0.0	0.0
42.00000	-16.00000	19.50000	0.23833	19.083	0.0	0.0	0.0
43.00000	-16.00000	19.50000	0.23595	19.083	0.0	0.0	0.0
44.00000	-16.00000	19.50000	0.23313	19.083	0.0	0.0	0.0
45.00000	-16.00000	19.50000	0.22992	19.083	0.0	0.0	0.0
46.00000	-16.00000	19.50000	0.22634	19.083	0.0	0.0	0.0
47.00000	-16.00000	19.50000	0.22244	19.083	0.0	0.0	0.0
48.00000	-16.00000	19.50000	0.21825	19.083	0.0	0.0	0.0
49.00000	-16.00000	19.50000	0.21381	19.083	0.0	0.0	0.0
50.00000	-16.00000	19.50000	0.20916	19.083	0.0	0.0	0.0
51.00000	-16.00000	19.50000	0.20435	19.083	0.0	0.0	0.0
52.00000	-16.00000	19.50000	0.19940	19.083	0.0	0.0	0.0
53.00000	-16.00000	19.50000	0.19436	19.083	0.0	0.0	0.0
54.00000	-16.00000	19.50000	0.18925	19.083	0.0	0.0	0.0
55.00000	-16.00000	19.50000	0.18411	19.083	0.0	0.0	0.0
-25.00000	-15.00000	19.50000	0.16838	19.083	0.0	0.0	0.0
-24.00000	-15.00000	19.50000	0.17319	19.083	0.0	0.0	0.0
-23.00000	-15.00000	19.50000	0.17799	19.083	0.0	0.0	0.0
-22.00000	-15.00000	19.50000	0.18275	19.083	0.0	0.0	0.0
-21.00000	-15.00000	19.50000	0.18745	19.083	0.0	0.0	0.0
-20.00000	-15.00000	19.50000	0.19206	19.083	0.0	0.0	0.0
-19.00000	-15.00000	19.50000	0.19653	19.083	0.0	0.0	0.0
-18.00000	-15.00000	19.50000	0.20083	19.083	0.0	0.0	0.0
-17.00000	-15.00000	19.50000	0.20492	19.083	0.0	0.0	0.0
-16.00000	-15.00000	19.50000	0.20875	19.083	0.0	0.0	0.0
-15.00000	-15.00000	19.50000	0.21227	19.083	0.0	0.0	0.0
-14.00000	-15.00000	19.50000	0.21543	19.083	0.0	0.0	0.0
-13.00000	-15.00000	19.50000	0.21818	19.083	0.0	0.0	0.0
-12.00000	-15.00000	19.50000	0.22048	19.083	0.0	0.0	0.0
-11.00000	-15.00000	19.50000	0.22228	19.083	0.0	0.0	0.0
-10.00000	-15.00000	19.50000	0.22354	19.083	0.0	0.0	0.0
-9.00000	-15.00000	19.50000	0.22422	19.083	0.0	0.0	0.0
-8.00000	-15.00000	19.50000	0.22430	19.083	0.0	0.0	0.0
-7.00000	-15.00000	19.50000	0.22378	19.083	0.0	0.0	0.0
-6.00000	-15.00000	19.50000	0.22264	19.083	0.0	0.0	0.0
-5.00000	-15.00000	19.50000	0.22093	19.083	0.0	0.0	0.0
-4.00000	-15.00000	19.50000	0.21868	19.083	0.0	0.0	0.0
-3.00000	-15.00000	19.50000	0.21594	19.083	0.0	0.0	0.0
-2.00000	-15.00000	19.50000	0.21280	19.083	0.0	0.0	0.0
-1.00000	-15.00000	19.50000	0.20934	19.083	0.0	0.0	0.0
0.00000	-15.00000	19.50000	0.20567	19.083	0.0	0.0	0.0
1.00000	-15.00000	19.50000	0.20191	19.083	0.0	0.0	0.0
2.00000	-15.00000	19.50000	0.19815	19.083	0.0	0.0	0.0
3.00000	-15.00000	19.50000	0.19452	19.083	0.0	0.0	0.0
4.00000	-15.00000	19.50000	0.19109	19.083	0.0	0.0	0.0
5.00000	-15.00000	19.50000	0.18797	19.083	0.0	0.0	0.0
6.00000	-15.00000	19.50000	0.18521	19.083	0.0	0.0	0.0
7.00000	-15.00000	19.50000	0.18287	19.083	0.0	0.0	0.0
8.00000	-15.00000	19.50000	0.18098	19.083	0.0	0.0	0.0
9.00000	-15.00000	19.50000	0.17956	19.083	0.0	0.0	0.0
10.00000	-15.00000	19.50000	0.17861	19.083	0.0	0.0	0.0
11.00000	-15.00000	19.50000	0.17812	19.083	0.0	0.0	0.0
12.00000	-15.00000	19.50000	0.17808	19.083	0.0	0.0	0.0
13.00000	-15.00000	19.50000	0.17846	19.083	0.0	0.0	0.0
14.00000	-15.00000	19.50000	0.17923	19.083	0.0	0.0	0.0
15.00000	-15.00000	19.50000	0.18035	19.083	0.0	0.0	0.0
16.00000	-15.00000	19.50000	0.18180	19.083	0.0	0.0	0.0
17.00000	-15.00000	19.50000	0.18354	19.083	0.0	0.0	0.0
18.00000	-15.00000	19.50000	0.18553	19.083	0.0	0.0	0.0
19.00000	-15.00000	19.50000	0.18775	19.083	0.0	0.0	0.0
20.00000	-15.00000	19.50000	0.19017	19.083	0.0	0.0	0.0
21.00000	-15.00000	19.50000	0.19276	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
22.00000	-15.00000	19.50000	0.19550	19.083	0.0	0.0	0.0
23.00000	-15.00000	19.50000	0.19838	19.083	0.0	0.0	0.0
24.00000	-15.00000	19.50000	0.20139	19.083	0.0	0.0	0.0
25.00000	-15.00000	19.50000	0.20450	19.083	0.0	0.0	0.0
26.00000	-15.00000	19.50000	0.20771	19.083	0.0	0.0	0.0
27.00000	-15.00000	19.50000	0.21100	19.083	0.0	0.0	0.0
28.00000	-15.00000	19.50000	0.21435	19.083	0.0	0.0	0.0
29.00000	-15.00000	19.50000	0.21773	19.083	0.0	0.0	0.0
30.00000	-15.00000	19.50000	0.22109	19.083	0.0	0.0	0.0
31.00000	-15.00000	19.50000	0.22441	19.083	0.0	0.0	0.0
32.00000	-15.00000	19.50000	0.22761	19.083	0.0	0.0	0.0
33.00000	-15.00000	19.50000	0.23063	19.083	0.0	0.0	0.0
34.00000	-15.00000	19.50000	0.23342	19.083	0.0	0.0	0.0
35.00000	-15.00000	19.50000	0.23588	19.083	0.0	0.0	0.0
36.00000	-15.00000	19.50000	0.23797	19.083	0.0	0.0	0.0
37.00000	-15.00000	19.50000	0.23960	19.083	0.0	0.0	0.0
38.00000	-15.00000	19.50000	0.24073	19.083	0.0	0.0	0.0
39.00000	-15.00000	19.50000	0.24133	19.083	0.0	0.0	0.0
40.00000	-15.00000	19.50000	0.24135	19.083	0.0	0.0	0.0
41.00000	-15.00000	19.50000	0.24079	19.083	0.0	0.0	0.0
42.00000	-15.00000	19.50000	0.23966	19.083	0.0	0.0	0.0
43.00000	-15.00000	19.50000	0.23796	19.083	0.0	0.0	0.0
44.00000	-15.00000	19.50000	0.23572	19.083	0.0	0.0	0.0
45.00000	-15.00000	19.50000	0.23298	19.083	0.0	0.0	0.0
46.00000	-15.00000	19.50000	0.22979	19.083	0.0	0.0	0.0
47.00000	-15.00000	19.50000	0.22618	19.083	0.0	0.0	0.0
48.00000	-15.00000	19.50000	0.22220	19.083	0.0	0.0	0.0
49.00000	-15.00000	19.50000	0.21791	19.083	0.0	0.0	0.0
50.00000	-15.00000	19.50000	0.21336	19.083	0.0	0.0	0.0
51.00000	-15.00000	19.50000	0.20859	19.083	0.0	0.0	0.0
52.00000	-15.00000	19.50000	0.20364	19.083	0.0	0.0	0.0
53.00000	-15.00000	19.50000	0.19857	19.083	0.0	0.0	0.0
54.00000	-15.00000	19.50000	0.19340	19.083	0.0	0.0	0.0
55.00000	-15.00000	19.50000	0.18817	19.083	0.0	0.0	0.0
-25.00000	-14.00000	19.50000	0.17172	19.083	0.0	0.0	0.0
-24.00000	-14.00000	19.50000	0.17660	19.083	0.0	0.0	0.0
-23.00000	-14.00000	19.50000	0.18147	19.083	0.0	0.0	0.0
-22.00000	-14.00000	19.50000	0.18627	19.083	0.0	0.0	0.0
-21.00000	-14.00000	19.50000	0.19099	19.083	0.0	0.0	0.0
-20.00000	-14.00000	19.50000	0.19558	19.083	0.0	0.0	0.0
-19.00000	-14.00000	19.50000	0.19999	19.083	0.0	0.0	0.0
-18.00000	-14.00000	19.50000	0.20419	19.083	0.0	0.0	0.0
-17.00000	-14.00000	19.50000	0.20812	19.083	0.0	0.0	0.0
-16.00000	-14.00000	19.50000	0.21172	19.083	0.0	0.0	0.0
-15.00000	-14.00000	19.50000	0.21494	19.083	0.0	0.0	0.0
-14.00000	-14.00000	19.50000	0.21771	19.083	0.0	0.0	0.0
-13.00000	-14.00000	19.50000	0.21997	19.083	0.0	0.0	0.0
-12.00000	-14.00000	19.50000	0.22165	19.083	0.0	0.0	0.0
-11.00000	-14.00000	19.50000	0.22271	19.083	0.0	0.0	0.0
-10.00000	-14.00000	19.50000	0.22309	19.083	0.0	0.0	0.0
-9.00000	-14.00000	19.50000	0.22273	19.083	0.0	0.0	0.0
-8.00000	-14.00000	19.50000	0.22162	19.083	0.0	0.0	0.0
-7.00000	-14.00000	19.50000	0.21973	19.083	0.0	0.0	0.0
-6.00000	-14.00000	19.50000	0.21706	19.083	0.0	0.0	0.0
-5.00000	-14.00000	19.50000	0.21366	19.083	0.0	0.0	0.0
-4.00000	-14.00000	19.50000	0.20956	19.083	0.0	0.0	0.0
-3.00000	-14.00000	19.50000	0.20485	19.083	0.0	0.0	0.0
-2.00000	-14.00000	19.50000	0.19963	19.083	0.0	0.0	0.0
-1.00000	-14.00000	19.50000	0.19402	19.083	0.0	0.0	0.0
0.00000	-14.00000	19.50000	0.18818	19.083	0.0	0.0	0.0
1.00000	-14.00000	19.50000	0.18224	19.083	0.0	0.0	0.0
2.00000	-14.00000	19.50000	0.17636	19.083	0.0	0.0	0.0
3.00000	-14.00000	19.50000	0.17069	19.083	0.0	0.0	0.0
4.00000	-14.00000	19.50000	0.16535	19.083	0.0	0.0	0.0
5.00000	-14.00000	19.50000	0.16047	19.083	0.0	0.0	0.0
6.00000	-14.00000	19.50000	0.15612	19.083	0.0	0.0	0.0
7.00000	-14.00000	19.50000	0.15237	19.083	0.0	0.0	0.0
8.00000	-14.00000	19.50000	0.14928	19.083	0.0	0.0	0.0
9.00000	-14.00000	19.50000	0.14685	19.083	0.0	0.0	0.0
10.00000	-14.00000	19.50000	0.14508	19.083	0.0	0.0	0.0
11.00000	-14.00000	19.50000	0.14397	19.083	0.0	0.0	0.0
12.00000	-14.00000	19.50000	0.14349	19.083	0.0	0.0	0.0
13.00000	-14.00000	19.50000	0.14361	19.083	0.0	0.0	0.0
14.00000	-14.00000	19.50000	0.14428	19.083	0.0	0.0	0.0
15.00000	-14.00000	19.50000	0.14546	19.083	0.0	0.0	0.0
16.00000	-14.00000	19.50000	0.14711	19.083	0.0	0.0	0.0
17.00000	-14.00000	19.50000	0.14919	19.083	0.0	0.0	0.0
18.00000	-14.00000	19.50000	0.15165	19.083	0.0	0.0	0.0
19.00000	-14.00000	19.50000	0.15445	19.083	0.0	0.0	0.0
20.00000	-14.00000	19.50000	0.15757	19.083	0.0	0.0	0.0
21.00000	-14.00000	19.50000	0.16098	19.083	0.0	0.0	0.0
22.00000	-14.00000	19.50000	0.16465	19.083	0.0	0.0	0.0
23.00000	-14.00000	19.50000	0.16856	19.083	0.0	0.0	0.0
24.00000	-14.00000	19.50000	0.17270	19.083	0.0	0.0	0.0
25.00000	-14.00000	19.50000	0.17706	19.083	0.0	0.0	0.0
26.00000	-14.00000	19.50000	0.18163	19.083	0.0	0.0	0.0
27.00000	-14.00000	19.50000	0.18638	19.083	0.0	0.0	0.0
28.00000	-14.00000	19.50000	0.19130	19.083	0.0	0.0	0.0
29.00000	-14.00000	19.50000	0.19634	19.083	0.0	0.0	0.0
30.00000	-14.00000	19.50000	0.20147	19.083	0.0	0.0	0.0
31.00000	-14.00000	19.50000	0.20661	19.083	0.0	0.0	0.0
32.00000	-14.00000	19.50000	0.21170	19.083	0.0	0.0	0.0
33.00000	-14.00000	19.50000	0.21664	19.083	0.0	0.0	0.0
34.00000	-14.00000	19.50000	0.22134	19.083	0.0	0.0	0.0
35.00000	-14.00000	19.50000	0.22570	19.083	0.0	0.0	0.0
36.00000	-14.00000	19.50000	0.22960	19.083	0.0	0.0	0.0
37.00000	-14.00000	19.50000	0.23298	19.083	0.0	0.0	0.0
38.00000	-14.00000	19.50000	0.23574	19.083	0.0	0.0	0.0
39.00000	-14.00000	19.50000	0.23782	19.083	0.0	0.0	0.0
40.00000	-14.00000	19.50000	0.23920	19.083	0.0	0.0	0.0
41.00000	-14.00000	19.50000	0.23984	19.083	0.0	0.0	0.0
42.00000	-14.00000	19.50000	0.23975	19.083	0.0	0.0	0.0
43.00000	-14.00000	19.50000	0.23895	19.083	0.0	0.0	0.0
44.00000	-14.00000	19.50000	0.23748	19.083	0.0	0.0	0.0
45.00000	-14.00000	19.50000	0.23537	19.083	0.0	0.0	0.0
46.00000	-14.00000	19.50000	0.23268	19.083	0.0	0.0	0.0
47.00000	-14.00000	19.50000	0.22947	19.083	0.0	0.0	0.0
48.00000	-14.00000	19.50000	0.22580	19.083	0.0	0.0	0.0
49.00000	-14.00000	19.50000	0.22173	19.083	0.0	0.0	0.0
50.00000	-14.00000	19.50000	0.21733	19.083	0.0	0.0	0.0
51.00000	-14.00000	19.50000	0.21265	19.083	0.0	0.0	0.0
52.00000	-14.00000	19.50000	0.20774	19.083	0.0	0.0	0.0
53.00000	-14.00000	19.50000	0.20266	19.083	0.0	0.0	0.0
54.00000	-14.00000	19.50000	0.19746	19.083	0.0	0.0	0.0
55.00000	-14.00000	19.50000	0.19216	19.083	0.0	0.0	0.0
-25.00000	-13.00000	19.50000	0.17499	19.083	0.0	0.0	0.0
-24.00000	-13.00000	19.50000	0.17994	19.083	0.0	0.0	0.0
-23.00000	-13.00000	19.50000	0.18485	19.083	0.0	0.0	0.0
-22.00000	-13.00000	19.50000	0.18968	19.083	0.0	0.0	0.0
-21.00000	-13.00000	19.50000	0.19439	19.083	0.0	0.0	0.0
-20.00000	-13.00000	19.50000	0.19893	19.083	0.0	0.0	0.0
-19.00000	-13.00000	19.50000	0.20326	19.083	0.0	0.0	0.0
-18.00000	-13.00000	19.50000	0.20731	19.083	0.0	0.0	0.0
-17.00000	-13.00000	19.50000	0.21102	19.083	0.0	0.0	0.0
-16.00000	-13.00000	19.50000	0.21432	19.083	0.0	0.0	0.0
-15.00000	-13.00000	19.50000	0.21715	19.083	0.0	0.0	0.0
-14.00000	-13.00000	19.50000	0.21942	19.083	0.0	0.0	0.0
-13.00000	-13.00000	19.50000	0.22106	19.083	0.0	0.0	0.0
-12.00000	-13.00000	19.50000	0.22198	19.083	0.0	0.0	0.0
-11.00000	-13.00000	19.50000	0.22211	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-10.00000	-13.00000	19.50000	0.22138	19.083	0.0	0.0
	-9.00000	-13.00000	19.50000	0.21972	19.083	0.0	0.0
	-8.00000	-13.00000	19.50000	0.21710	19.083	0.0	0.0
	-7.00000	-13.00000	19.50000	0.21348	19.083	0.0	0.0
	-6.00000	-13.00000	19.50000	0.20887	19.083	0.0	0.0
	-5.00000	-13.00000	19.50000	0.20330	19.083	0.0	0.0
	-4.00000	-13.00000	19.50000	0.19684	19.083	0.0	0.0
	-3.00000	-13.00000	19.50000	0.18959	19.083	0.0	0.0
	-2.00000	-13.00000	19.50000	0.18168	19.083	0.0	0.0
	-1.00000	-13.00000	19.50000	0.17329	19.083	0.0	0.0
	0.00000	-13.00000	19.50000	0.16461	19.083	0.0	0.0
	1.00000	-13.00000	19.50000	0.15586	19.083	0.0	0.0
	2.00000	-13.00000	19.50000	0.14723	19.083	0.0	0.0
	3.00000	-13.00000	19.50000	0.13892	19.083	0.0	0.0
	4.00000	-13.00000	19.50000	0.13112	19.083	0.0	0.0
	5.00000	-13.00000	19.50000	0.12397	19.083	0.0	0.0
	6.00000	-13.00000	19.50000	0.11758	19.083	0.0	0.0
	7.00000	-13.00000	19.50000	0.11205	19.083	0.0	0.0
	8.00000	-13.00000	19.50000	0.10742	19.083	0.0	0.0
	9.00000	-13.00000	19.50000	0.10371	19.083	0.0	0.0
	10.00000	-13.00000	19.50000	0.10092	19.083	0.0	0.0
	11.00000	-13.00000	19.50000	0.099029	19.083	0.0	0.0
	12.00000	-13.00000	19.50000	0.097996	19.083	0.0	0.0
	13.00000	-13.00000	19.50000	0.097776	19.083	0.0	0.0
	14.00000	-13.00000	19.50000	0.098316	19.083	0.0	0.0
	15.00000	-13.00000	19.50000	0.099561	19.083	0.0	0.0
	16.00000	-13.00000	19.50000	0.10145	19.083	0.0	0.0
	17.00000	-13.00000	19.50000	0.10394	19.083	0.0	0.0
	18.00000	-13.00000	19.50000	0.10697	19.083	0.0	0.0
	19.00000	-13.00000	19.50000	0.11049	19.083	0.0	0.0
	20.00000	-13.00000	19.50000	0.11447	19.083	0.0	0.0
	21.00000	-13.00000	19.50000	0.11887	19.083	0.0	0.0
	22.00000	-13.00000	19.50000	0.12367	19.083	0.0	0.0
	23.00000	-13.00000	19.50000	0.12885	19.083	0.0	0.0
	24.00000	-13.00000	19.50000	0.13440	19.083	0.0	0.0
	25.00000	-13.00000	19.50000	0.14030	19.083	0.0	0.0
	26.00000	-13.00000	19.50000	0.14655	19.083	0.0	0.0
	27.00000	-13.00000	19.50000	0.15313	19.083	0.0	0.0
	28.00000	-13.00000	19.50000	0.16002	19.083	0.0	0.0
	29.00000	-13.00000	19.50000	0.16718	19.083	0.0	0.0
	30.00000	-13.00000	19.50000	0.17455	19.083	0.0	0.0
	31.00000	-13.00000	19.50000	0.18205	19.083	0.0	0.0
	32.00000	-13.00000	19.50000	0.18957	19.083	0.0	0.0
	33.00000	-13.00000	19.50000	0.19699	19.083	0.0	0.0
	34.00000	-13.00000	19.50000	0.20418	19.083	0.0	0.0
	35.00000	-13.00000	19.50000	0.21099	19.083	0.0	0.0
	36.00000	-13.00000	19.50000	0.21728	19.083	0.0	0.0
	37.00000	-13.00000	19.50000	0.22292	19.083	0.0	0.0
	38.00000	-13.00000	19.50000	0.22779	19.083	0.0	0.0
	39.00000	-13.00000	19.50000	0.23182	19.083	0.0	0.0
	40.00000	-13.00000	19.50000	0.23494	19.083	0.0	0.0
	41.00000	-13.00000	19.50000	0.23713	19.083	0.0	0.0
	42.00000	-13.00000	19.50000	0.23840	19.083	0.0	0.0
	43.00000	-13.00000	19.50000	0.23876	19.083	0.0	0.0
	44.00000	-13.00000	19.50000	0.23826	19.083	0.0	0.0
	45.00000	-13.00000	19.50000	0.23696	19.083	0.0	0.0
	46.00000	-13.00000	19.50000	0.23493	19.083	0.0	0.0
	47.00000	-13.00000	19.50000	0.23225	19.083	0.0	0.0
	48.00000	-13.00000	19.50000	0.22898	19.083	0.0	0.0
	49.00000	-13.00000	19.50000	0.22522	19.083	0.0	0.0
	50.00000	-13.00000	19.50000	0.22103	19.083	0.0	0.0
	51.00000	-13.00000	19.50000	0.21650	19.083	0.0	0.0
	52.00000	-13.00000	19.50000	0.21167	19.083	0.0	0.0
	53.00000	-13.00000	19.50000	0.20662	19.083	0.0	0.0
	54.00000	-13.00000	19.50000	0.20140	19.083	0.0	0.0
	55.00000	-13.00000	19.50000	0.19607	19.083	0.0	0.0
	-25.00000	-12.00000	19.50000	0.17819	19.083	0.0	0.0
	-24.00000	-12.00000	19.50000	0.18320	19.083	0.0	0.0
	-23.00000	-12.00000	19.50000	0.18814	19.083	0.0	0.0
	-22.00000	-12.00000	19.50000	0.19297	19.083	0.0	0.0
	-21.00000	-12.00000	19.50000	0.19764	19.083	0.0	0.0
	-20.00000	-12.00000	19.50000	0.20211	19.083	0.0	0.0
	-19.00000	-12.00000	19.50000	0.20630	19.083	0.0	0.0
	-18.00000	-12.00000	19.50000	0.21015	19.083	0.0	0.0
	-17.00000	-12.00000	19.50000	0.21358	19.083	0.0	0.0
	-16.00000	-12.00000	19.50000	0.21652	19.083	0.0	0.0
	-15.00000	-12.00000	19.50000	0.21886	19.083	0.0	0.0
	-14.00000	-12.00000	19.50000	0.22051	19.083	0.0	0.0
	-13.00000	-12.00000	19.50000	0.22138	19.083	0.0	0.0
	-12.00000	-12.00000	19.50000	0.22136	19.083	0.0	0.0
	-11.00000	-12.00000	19.50000	0.22034	19.083	0.0	0.0
	-10.00000	-12.00000	19.50000	0.21824	19.083	0.0	0.0
	-9.00000	-12.00000	19.50000	0.21497	19.083	0.0	0.0
	-8.00000	-12.00000	19.50000	0.21046	19.083	0.0	0.0
	-7.00000	-12.00000	19.50000	0.20468	19.083	0.0	0.0
	-6.00000	-12.00000	19.50000	0.19761	19.083	0.0	0.0
	-5.00000	-12.00000	19.50000	0.18929	19.083	0.0	0.0
	-4.00000	-12.00000	19.50000	0.17980	19.083	0.0	0.0
	-3.00000	-12.00000	19.50000	0.16928	19.083	0.0	0.0
	-2.00000	-12.00000	19.50000	0.15790	19.083	0.0	0.0
	-1.00000	-12.00000	19.50000	0.14591	19.083	0.0	0.0
	0.00000	-12.00000	19.50000	0.13357	19.083	0.0	0.0
	1.00000	-12.00000	19.50000	0.12115	19.083	0.0	0.0
	2.00000	-12.00000	19.50000	0.10895	19.083	0.0	0.0
	3.00000	-12.00000	19.50000	0.097244	19.083	0.0	0.0
	4.00000	-12.00000	19.50000	0.086264	19.083	0.0	0.0
	5.00000	-12.00000	19.50000	0.076210	19.083	0.0	0.0
	6.00000	-12.00000	19.50000	0.067231	19.083	0.0	0.0
	7.00000	-12.00000	19.50000	0.059431	19.083	0.0	0.0
	8.00000	-12.00000	19.50000	0.052865	19.083	0.0	0.0
	9.00000	-12.00000	19.50000	0.047553	19.083	0.0	0.0
	10.00000	-12.00000	19.50000	0.043480	19.083	0.0	0.0
	11.00000	-12.00000	19.50000	0.040611	19.083	0.0	0.0
	12.00000	-12.00000	19.50000	0.038891	19.083	0.0	0.0
	13.00000	-12.00000	19.50000	0.038255	19.083	0.0	0.0
	14.00000	-12.00000	19.50000	0.038633	19.083	0.0	0.0
	15.00000	-12.00000	19.50000	0.039952	19.083	0.0	0.0
	16.00000	-12.00000	19.50000	0.042138	19.083	0.0	0.0
	17.00000	-12.00000	19.50000	0.045124	19.083	0.0	0.0
	18.00000	-12.00000	19.50000	0.048845	19.083	0.0	0.0
	19.00000	-12.00000	19.50000	0.053243	19.083	0.0	0.0
	20.00000	-12.00000	19.50000	0.058272	19.083	0.0	0.0
	21.00000	-12.00000	19.50000	0.063891	19.083	0.0	0.0
	22.00000	-12.00000	19.50000	0.070073	19.083	0.0	0.0
	23.00000	-12.00000	19.50000	0.076801	19.083	0.0	0.0
	24.00000	-12.00000	19.50000	0.084067	19.083	0.0	0.0
	25.00000	-12.00000	19.50000	0.091867	19.083	0.0	0.0
	26.00000	-12.00000	19.50000	0.10020	19.083	0.0	0.0
	27.00000	-12.00000	19.50000	0.10906	19.083	0.0	0.0
	28.00000	-12.00000	19.50000	0.11842	19.083	0.0	0.0
	29.00000	-12.00000	19.50000	0.12825	19.083	0.0	0.0
	30.00000	-12.00000	19.50000	0.13847	19.083	0.0	0.0
	31.00000	-12.00000	19.50000	0.14897	19.083	0.0	0.0
	32.00000	-12.00000	19.50000	0.15963	19.083	0.0	0.0
	33.00000	-12.00000	19.50000	0.17027	19.083	0.0	0.0
	34.00000	-12.00000	19.50000	0.18069	19.083	0.0	0.0
	35.00000	-12.00000	19.50000	0.19070	19.083	0.0	0.0
	36.00000	-12.00000	19.50000	0.20008	19.083	0.0	0.0
	37.00000	-12.00000	19.50000	0.20866	19.083	0.0	0.0
	38.00000	-12.00000	19.50000	0.21627	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
39.00000	-12.00000	19.50000	0.22280	19.083	0.0	0.0	0.0
40.00000	-12.00000	19.50000	0.22818	19.083	0.0	0.0	0.0
41.00000	-12.00000	19.50000	0.23235	19.083	0.0	0.0	0.0
42.00000	-12.00000	19.50000	0.23534	19.083	0.0	0.0	0.0
43.00000	-12.00000	19.50000	0.23718	19.083	0.0	0.0	0.0
44.00000	-12.00000	19.50000	0.23792	19.083	0.0	0.0	0.0
45.00000	-12.00000	19.50000	0.23765	19.083	0.0	0.0	0.0
46.00000	-12.00000	19.50000	0.23645	19.083	0.0	0.0	0.0
47.00000	-12.00000	19.50000	0.23444	19.083	0.0	0.0	0.0
48.00000	-12.00000	19.50000	0.23170	19.083	0.0	0.0	0.0
49.00000	-12.00000	19.50000	0.22833	19.083	0.0	0.0	0.0
50.00000	-12.00000	19.50000	0.22444	19.083	0.0	0.0	0.0
51.00000	-12.00000	19.50000	0.22010	19.083	0.0	0.0	0.0
52.00000	-12.00000	19.50000	0.21540	19.083	0.0	0.0	0.0
53.00000	-12.00000	19.50000	0.21042	19.083	0.0	0.0	0.0
54.00000	-12.00000	19.50000	0.20522	19.083	0.0	0.0	0.0
55.00000	-12.00000	19.50000	0.19986	19.083	0.0	0.0	0.0
-25.00000	-11.00000	19.50000	0.18130	19.083	0.0	0.0	0.0
-24.00000	-11.00000	19.50000	0.18635	19.083	0.0	0.0	0.0
-23.00000	-11.00000	19.50000	0.19130	19.083	0.0	0.0	0.0
-22.00000	-11.00000	19.50000	0.19611	19.083	0.0	0.0	0.0
-21.00000	-11.00000	19.50000	0.20073	19.083	0.0	0.0	0.0
-20.00000	-11.00000	19.50000	0.20508	19.083	0.0	0.0	0.0
-19.00000	-11.00000	19.50000	0.20910	19.083	0.0	0.0	0.0
-18.00000	-11.00000	19.50000	0.21269	19.083	0.0	0.0	0.0
-17.00000	-11.00000	19.50000	0.21578	19.083	0.0	0.0	0.0
-16.00000	-11.00000	19.50000	0.21826	19.083	0.0	0.0	0.0
-15.00000	-11.00000	19.50000	0.22001	19.083	0.0	0.0	0.0
-14.00000	-11.00000	19.50000	0.22092	19.083	0.0	0.0	0.0
-13.00000	-11.00000	19.50000	0.22085	19.083	0.0	0.0	0.0
-12.00000	-11.00000	19.50000	0.21968	19.083	0.0	0.0	0.0
-11.00000	-11.00000	19.50000	0.21727	19.083	0.0	0.0	0.0
-10.00000	-11.00000	19.50000	0.21349	19.083	0.0	0.0	0.0
-9.00000	-11.00000	19.50000	0.20823	19.083	0.0	0.0	0.0
-8.00000	-11.00000	19.50000	0.20139	19.083	0.0	0.0	0.0
-7.00000	-11.00000	19.50000	0.19290	19.083	0.0	0.0	0.0
-6.00000	-11.00000	19.50000	0.18274	19.083	0.0	0.0	0.0
-5.00000	-11.00000	19.50000	0.17094	19.083	0.0	0.0	0.0
-4.00000	-11.00000	19.50000	0.15759	19.083	0.0	0.0	0.0
-3.00000	-11.00000	19.50000	0.14288	19.083	0.0	0.0	0.0
-2.00000	-11.00000	19.50000	0.12703	19.083	0.0	0.0	0.0
-1.00000	-11.00000	19.50000	0.11037	19.083	0.0	0.0	0.0
0.00000	-11.00000	19.50000	0.093258	19.083	0.0	0.0	0.0
1.00000	-11.00000	19.50000	0.076092	19.083	0.0	0.0	0.0
2.00000	-11.00000	19.50000	0.059268	19.083	0.0	0.0	0.0
3.00000	-11.00000	19.50000	0.041610	19.083	0.0	0.0	0.0
4.00000	-11.00000	19.50000	0.028092	19.083	0.0	0.0	0.0
5.00000	-11.00000	19.50000	0.014325	19.083	0.0	0.0	0.0
6.00000	-11.00000	19.50000	0.0020481	19.083	0.0	0.0	0.0
7.00000	-11.00000	19.50000	-0.0086159	19.083	0.0	0.0	0.0
8.00000	-11.00000	19.50000	-0.017608	19.083	0.0	0.0	0.0
9.00000	-11.00000	19.50000	-0.024919	19.083	0.0	0.0	0.0
10.00000	-11.00000	19.50000	-0.030581	19.083	0.0	0.0	0.0
11.00000	-11.00000	19.50000	-0.034654	19.083	0.0	0.0	0.0
12.00000	-11.00000	19.50000	-0.037217	19.083	0.0	0.0	0.0
13.00000	-11.00000	19.50000	-0.038361	19.083	0.0	0.0	0.0
14.00000	-11.00000	19.50000	-0.038179	19.083	0.0	0.0	0.0
15.00000	-11.00000	19.50000	-0.036769	19.083	0.0	0.0	0.0
16.00000	-11.00000	19.50000	-0.034221	19.083	0.0	0.0	0.0
17.00000	-11.00000	19.50000	-0.030624	19.083	0.0	0.0	0.0
18.00000	-11.00000	19.50000	-0.026058	19.083	0.0	0.0	0.0
19.00000	-11.00000	19.50000	-0.020593	19.083	0.0	0.0	0.0
20.00000	-11.00000	19.50000	-0.014290	19.083	0.0	0.0	0.0
21.00000	-11.00000	19.50000	-0.0071916	19.083	0.0	0.0	0.0
22.00000	-11.00000	19.50000	670.608-6	19.083	0.0	0.0	0.0
23.00000	-11.00000	19.50000	0.0092810	19.083	0.0	0.0	0.0
24.00000	-11.00000	19.50000	0.018646	19.083	0.0	0.0	0.0
25.00000	-11.00000	19.50000	0.028769	19.083	0.0	0.0	0.0
26.00000	-11.00000	19.50000	0.039666	19.083	0.0	0.0	0.0
27.00000	-11.00000	19.50000	0.051345	19.083	0.0	0.0	0.0
28.00000	-11.00000	19.50000	0.063797	19.083	0.0	0.0	0.0
29.00000	-11.00000	19.50000	0.076982	19.083	0.0	0.0	0.0
30.00000	-11.00000	19.50000	0.090819	19.083	0.0	0.0	0.0
31.00000	-11.00000	19.50000	0.10518	19.083	0.0	0.0	0.0
32.00000	-11.00000	19.50000	0.11988	19.083	0.0	0.0	0.0
33.00000	-11.00000	19.50000	0.13468	19.083	0.0	0.0	0.0
34.00000	-11.00000	19.50000	0.14931	19.083	0.0	0.0	0.0
35.00000	-11.00000	19.50000	0.16348	19.083	0.0	0.0	0.0
36.00000	-11.00000	19.50000	0.17689	19.083	0.0	0.0	0.0
37.00000	-11.00000	19.50000	0.18929	19.083	0.0	0.0	0.0
38.00000	-11.00000	19.50000	0.20045	19.083	0.0	0.0	0.0
39.00000	-11.00000	19.50000	0.21020	19.083	0.0	0.0	0.0
40.00000	-11.00000	19.50000	0.21845	19.083	0.0	0.0	0.0
41.00000	-11.00000	19.50000	0.22515	19.083	0.0	0.0	0.0
42.00000	-11.00000	19.50000	0.23032	19.083	0.0	0.0	0.0
43.00000	-11.00000	19.50000	0.23400	19.083	0.0	0.0	0.0
44.00000	-11.00000	19.50000	0.23629	19.083	0.0	0.0	0.0
45.00000	-11.00000	19.50000	0.23730	19.083	0.0	0.0	0.0
46.00000	-11.00000	19.50000	0.23715	19.083	0.0	0.0	0.0
47.00000	-11.00000	19.50000	0.23597	19.083	0.0	0.0	0.0
48.00000	-11.00000	19.50000	0.23388	19.083	0.0	0.0	0.0
49.00000	-11.00000	19.50000	0.23102	19.083	0.0	0.0	0.0
50.00000	-11.00000	19.50000	0.22750	19.083	0.0	0.0	0.0
51.00000	-11.00000	19.50000	0.22343	19.083	0.0	0.0	0.0
52.00000	-11.00000	19.50000	0.21892	19.083	0.0	0.0	0.0
53.00000	-11.00000	19.50000	0.21404	19.083	0.0	0.0	0.0
54.00000	-11.00000	19.50000	0.20889	19.083	0.0	0.0	0.0
55.00000	-11.00000	19.50000	0.20354	19.083	0.0	0.0	0.0
-25.00000	-10.00000	19.50000	0.18432	19.083	0.0	0.0	0.0
-24.00000	-10.00000	19.50000	0.18939	19.083	0.0	0.0	0.0
-23.00000	-10.00000	19.50000	0.19494	19.083	0.0	0.0	0.0
-22.00000	-10.00000	19.50000	0.19911	19.083	0.0	0.0	0.0
-21.00000	-10.00000	19.50000	0.20363	19.083	0.0	0.0	0.0
-20.00000	-10.00000	19.50000	0.20784	19.083	0.0	0.0	0.0
-19.00000	-10.00000	19.50000	0.21163	19.083	0.0	0.0	0.0
-18.00000	-10.00000	19.50000	0.21492	19.083	0.0	0.0	0.0
-17.00000	-10.00000	19.50000	0.21759	19.083	0.0	0.0	0.0
-16.00000	-10.00000	19.50000	0.21952	19.083	0.0	0.0	0.0
-15.00000	-10.00000	19.50000	0.22056	19.083	0.0	0.0	0.0
-14.00000	-10.00000	19.50000	0.22058	19.083	0.0	0.0	0.0
-13.00000	-10.00000	19.50000	0.21939	19.083	0.0	0.0	0.0
-12.00000	-10.00000	19.50000	0.21685	19.083	0.0	0.0	0.0
-11.00000	-10.00000	19.50000	0.21276	19.083	0.0	0.0	0.0
-10.00000	-10.00000	19.50000	0.20696	19.083	0.0	0.0	0.0
-9.00000	-10.00000	19.50000	0.19927	19.083	0.0	0.0	0.0
-8.00000	-10.00000	19.50000	0.18956	19.083	0.0	0.0	0.0
-7.00000	-10.00000	19.50000	0.17772	19.083	0.0	0.0	0.0
-6.00000	-10.00000	19.50000	0.16369	19.083	0.0	0.0	0.0
-5.00000	-10.00000	19.50000	0.14750	19.083	0.0	0.0	0.0
-4.00000	-10.00000	19.50000	0.12925	19.083	0.0	0.0	0.0
-3.00000	-10.00000	19.50000	0.10914	19.083	0.0	0.0	0.0
-2.00000	-10.00000	19.50000	0.087513	19.083	0.0	0.0	0.0
-1.00000	-10.00000	19.50000	0.064785	19.083	0.0	0.0	0.0
0.00000	-10.00000	19.50000	0.041464	19.083	0.0	0.0	0.0
1.00000	-10.00000	19.50000	0.018105	19.083	0.0	0.0	0.0
2.00000	-10.00000	19.50000	-0.0047345	19.083	0.0	0.0	0.0
3.00000	-10.00000	19.50000	-0.026539	19.083	0.0	0.0	0.0
4.00000	-10.00000	19.50000	-0.046868	19.083	0.0	0.0	0.0
5.00000	-10.00000	19.50000	-0.065380	19.083	0.0	0.0	0.0
6.00000	-10.00000	19.50000	-0.081836	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
7.00000	-10.00000	19.50000	-0.096099	19.083	0.0	0.0	0.0
8.00000	-10.00000	19.50000	-0.10812	19.083	0.0	0.0	0.0
9.00000	-10.00000	19.50000	-0.11790	19.083	0.0	0.0	0.0
10.00000	-10.00000	19.50000	-0.12551	19.083	0.0	0.0	0.0
11.00000	-10.00000	19.50000	-0.13106	19.083	0.0	0.0	0.0
12.00000	-10.00000	19.50000	-0.13464	19.083	0.0	0.0	0.0
13.00000	-10.00000	19.50000	-0.13639	19.083	0.0	0.0	0.0
14.00000	-10.00000	19.50000	-0.13644	19.083	0.0	0.0	0.0
15.00000	-10.00000	19.50000	-0.13491	19.083	0.0	0.0	0.0
16.00000	-10.00000	19.50000	-0.13191	19.083	0.0	0.0	0.0
17.00000	-10.00000	19.50000	-0.12757	19.083	0.0	0.0	0.0
18.00000	-10.00000	19.50000	-0.12197	19.083	0.0	0.0	0.0
19.00000	-10.00000	19.50000	-0.11521	19.083	0.0	0.0	0.0
20.00000	-10.00000	19.50000	-0.10735	19.083	0.0	0.0	0.0
21.00000	-10.00000	19.50000	-0.098462	19.083	0.0	0.0	0.0
22.00000	-10.00000	19.50000	-0.088566	19.083	0.0	0.0	0.0
23.00000	-10.00000	19.50000	-0.077671	19.083	0.0	0.0	0.0
24.00000	-10.00000	19.50000	-0.065765	19.083	0.0	0.0	0.0
25.00000	-10.00000	19.50000	-0.052815	19.083	0.0	0.0	0.0
26.00000	-10.00000	19.50000	-0.038779	19.083	0.0	0.0	0.0
27.00000	-10.00000	19.50000	-0.02623	19.083	0.0	0.0	0.0
28.00000	-10.00000	19.50000	-0.0073301	19.083	0.0	0.0	0.0
29.00000	-10.00000	19.50000	0.010074	19.083	0.0	0.0	0.0
30.00000	-10.00000	19.50000	0.028503	19.083	0.0	0.0	0.0
31.00000	-10.00000	19.50000	0.047798	19.083	0.0	0.0	0.0
32.00000	-10.00000	19.50000	0.067715	19.083	0.0	0.0	0.0
33.00000	-10.00000	19.50000	0.087929	19.083	0.0	0.0	0.0
34.00000	-10.00000	19.50000	0.10805	19.083	0.0	0.0	0.0
35.00000	-10.00000	19.50000	0.12766	19.083	0.0	0.0	0.0
36.00000	-10.00000	19.50000	0.14634	19.083	0.0	0.0	0.0
37.00000	-10.00000	19.50000	0.163370	19.083	0.0	0.0	0.0
38.00000	-10.00000	19.50000	0.17944	19.083	0.0	0.0	0.0
39.00000	-10.00000	19.50000	0.19333	19.083	0.0	0.0	0.0
40.00000	-10.00000	19.50000	0.20524	19.083	0.0	0.0	0.0
41.00000	-10.00000	19.50000	0.21513	19.083	0.0	0.0	0.0
42.00000	-10.00000	19.50000	0.22303	19.083	0.0	0.0	0.0
43.00000	-10.00000	19.50000	0.22902	19.083	0.0	0.0	0.0
44.00000	-10.00000	19.50000	0.23323	19.083	0.0	0.0	0.0
45.00000	-10.00000	19.50000	0.23581	19.083	0.0	0.0	0.0
46.00000	-10.00000	19.50000	0.23693	19.083	0.0	0.0	0.0
47.00000	-10.00000	19.50000	0.23677	19.083	0.0	0.0	0.0
48.00000	-10.00000	19.50000	0.23549	19.083	0.0	0.0	0.0
49.00000	-10.00000	19.50000	0.23325	19.083	0.0	0.0	0.0
50.00000	-10.00000	19.50000	0.23019	19.083	0.0	0.0	0.0
51.00000	-10.00000	19.50000	0.22647	19.083	0.0	0.0	0.0
52.00000	-10.00000	19.50000	0.22219	19.083	0.0	0.0	0.0
53.00000	-10.00000	19.50000	0.21747	19.083	0.0	0.0	0.0
54.00000	-10.00000	19.50000	0.21240	19.083	0.0	0.0	0.0
55.00000	-10.00000	19.50000	0.20708	19.083	0.0	0.0	0.0
-25.00000	-9.00000	19.50000	0.18723	19.083	0.0	0.0	0.0
-24.00000	-9.00000	19.50000	0.19232	19.083	0.0	0.0	0.0
-23.00000	-9.00000	19.50000	0.19724	19.083	0.0	0.0	0.0
-22.00000	-9.00000	19.50000	0.20195	19.083	0.0	0.0	0.0
-21.00000	-9.00000	19.50000	0.20635	19.083	0.0	0.0	0.0
-20.00000	-9.00000	19.50000	0.21037	19.083	0.0	0.0	0.0
-19.00000	-9.00000	19.50000	0.21389	19.083	0.0	0.0	0.0
-18.00000	-9.00000	19.50000	0.21681	19.083	0.0	0.0	0.0
-17.00000	-9.00000	19.50000	0.21898	19.083	0.0	0.0	0.0
-16.00000	-9.00000	19.50000	0.22026	19.083	0.0	0.0	0.0
-15.00000	-9.00000	19.50000	0.22048	19.083	0.0	0.0	0.0
-14.00000	-9.00000	19.50000	0.21944	19.083	0.0	0.0	0.0
-13.00000	-9.00000	19.50000	0.21695	19.083	0.0	0.0	0.0
-12.00000	-9.00000	19.50000	0.21278	19.083	0.0	0.0	0.0
-11.00000	-9.00000	19.50000	0.20669	19.083	0.0	0.0	0.0
-10.00000	-9.00000	19.50000	0.19846	19.083	0.0	0.0	0.0
-9.00000	-9.00000	19.50000	0.18785	19.083	0.0	0.0	0.0
-8.00000	-9.00000	19.50000	0.17465	19.083	0.0	0.0	0.0
-7.00000	-9.00000	19.50000	0.15868	19.083	0.0	0.0	0.0
-6.00000	-9.00000	19.50000	0.13985	19.083	0.0	0.0	0.0
-5.00000	-9.00000	19.50000	0.11812	19.083	0.0	0.0	0.0
-4.00000	-9.00000	19.50000	0.093619	19.083	0.0	0.0	0.0
-3.00000	-9.00000	19.50000	0.066592	19.083	0.0	0.0	0.0
-2.00000	-9.00000	19.50000	0.037462	19.083	0.0	0.0	0.0
-1.00000	-9.00000	19.50000	0.0068137	19.083	0.0	0.0	0.0
0.00000	-9.00000	19.50000	-0.024642	19.083	0.0	0.0	0.0
1.00000	-9.00000	19.50000	-0.056116	19.083	0.0	0.0	0.0
2.00000	-9.00000	19.50000	-0.086818	19.083	0.0	0.0	0.0
3.00000	-9.00000	19.50000	-0.11602	19.083	0.0	0.0	0.0
4.00000	-9.00000	19.50000	-0.14313	19.083	0.0	0.0	0.0
5.00000	-9.00000	19.50000	-0.16770	19.083	0.0	0.0	0.0
6.00000	-9.00000	19.50000	-0.18944	19.083	0.0	0.0	0.0
7.00000	-9.00000	19.50000	-0.20821	19.083	0.0	0.0	0.0
8.00000	-9.00000	19.50000	-0.22397	19.083	0.0	0.0	0.0
9.00000	-9.00000	19.50000	-0.23679	19.083	0.0	0.0	0.0
10.00000	-9.00000	19.50000	-0.24678	19.083	0.0	0.0	0.0
11.00000	-9.00000	19.50000	-0.25410	19.083	0.0	0.0	0.0
12.00000	-9.00000	19.50000	-0.25890	19.083	0.0	0.0	0.0
13.00000	-9.00000	19.50000	-0.26138	19.083	0.0	0.0	0.0
14.00000	-9.00000	19.50000	-0.26168	19.083	0.0	0.0	0.0
15.00000	-9.00000	19.50000	-0.25998	19.083	0.0	0.0	0.0
16.00000	-9.00000	19.50000	-0.25643	19.083	0.0	0.0	0.0
17.00000	-9.00000	19.50000	-0.25116	19.083	0.0	0.0	0.0
18.00000	-9.00000	19.50000	-0.24430	19.083	0.0	0.0	0.0
19.00000	-9.00000	19.50000	-0.23596	19.083	0.0	0.0	0.0
20.00000	-9.00000	19.50000	-0.22622	19.083	0.0	0.0	0.0
21.00000	-9.00000	19.50000	-0.21516	19.083	0.0	0.0	0.0
22.00000	-9.00000	19.50000	-0.20281	19.083	0.0	0.0	0.0
23.00000	-9.00000	19.50000	-0.18917	19.083	0.0	0.0	0.0
24.00000	-9.00000	19.50000	-0.17419	19.083	0.0	0.0	0.0
25.00000	-9.00000	19.50000	-0.15782	19.083	0.0	0.0	0.0
26.00000	-9.00000	19.50000	-0.13997	19.083	0.0	0.0	0.0
27.00000	-9.00000	19.50000	-0.12054	19.083	0.0	0.0	0.0
28.00000	-9.00000	19.50000	-0.099491	19.083	0.0	0.0	0.0
29.00000	-9.00000	19.50000	-0.076799	19.083	0.0	0.0	0.0
30.00000	-9.00000	19.50000	-0.052543	19.083	0.0	0.0	0.0
31.00000	-9.00000	19.50000	-0.026914	19.083	0.0	0.0	0.0
32.00000	-9.00000	19.50000	-229.85E-6	19.083	0.0	0.0	0.0
33.00000	-9.00000	19.50000	0.027058	19.083	0.0	0.0	0.0
34.00000	-9.00000	19.50000	0.054392	19.083	0.0	0.0	0.0
35.00000	-9.00000	19.50000	0.081157	19.083	0.0	0.0	0.0
36.00000	-9.00000	19.50000	0.106674	19.083	0.0	0.0	0.0
37.00000	-9.00000	19.50000	0.13058	19.083	0.0	0.0	0.0
38.00000	-9.00000	19.50000	0.15225	19.083	0.0	0.0	0.0
39.00000	-9.00000	19.50000	0.17145	19.083	0.0	0.0	0.0
40.00000	-9.00000	19.50000	0.18801	19.083	0.0	0.0	0.0
41.00000	-9.00000	19.50000	0.20190	19.083	0.0	0.0	0.0
42.00000	-9.00000	19.50000	0.21319	19.083	0.0	0.0	0.0
43.00000	-9.00000	19.50000	0.22201	19.083	0.0	0.0	0.0
44.00000	-9.00000	19.50000	0.22856	19.083	0.0	0.0	0.0
45.00000	-9.00000	19.50000	0.23306	19.083	0.0	0.0	0.0
46.00000	-9.00000	19.50000	0.23572	19.083	0.0	0.0	0.0
47.00000	-9.00000	19.50000	0.23679	19.083	0.0	0.0	0.0
48.00000	-9.00000	19.50000	0.23647	19.083	0.0	0.0	0.0
49.00000	-9.00000	19.50000	0.23497	19.083	0.0	0.0	0.0
50.00000	-9.00000	19.50000	0.23249	19.083	0.0	0.0	0.0
51.00000	-9.00000	19.50000	0.22918	19.083	0.0	0.0	0.0
52.00000	-9.00000	19.50000	0.22520	19.083	0.0	0.0	0.0
53.00000	-9.00000	19.50000	0.22068	19.083	0.0	0.0	0.0
54.00000	-9.00000	19.50000	0.21574	19.083	0.0	0.0	0.0
55.00000	-9.00000	19.50000	0.21047	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-25.00000	-8.00000	19.50000	0.19003	19.083	0.0	0.0	0.0
	-24.00000	-8.00000	19.50000	0.19511	19.083	0.0	0.0	0.0
	-23.00000	-8.00000	19.50000	0.20000	19.083	0.0	0.0	0.0
	-22.00000	-8.00000	19.50000	0.20461	19.083	0.0	0.0	0.0
	-21.00000	-8.00000	19.50000	0.20886	19.083	0.0	0.0	0.0
	-20.00000	-8.00000	19.50000	0.21265	19.083	0.0	0.0	0.0
	-19.00000	-8.00000	19.50000	0.21586	19.083	0.0	0.0	0.0
	-18.00000	-8.00000	19.50000	0.21835	19.083	0.0	0.0	0.0
	-17.00000	-8.00000	19.50000	0.21995	19.083	0.0	0.0	0.0
	-16.00000	-8.00000	19.50000	0.22048	19.083	0.0	0.0	0.0
	-15.00000	-8.00000	19.50000	0.21974	19.083	0.0	0.0	0.0
	-14.00000	-8.00000	19.50000	0.21749	19.083	0.0	0.0	0.0
	-13.00000	-8.00000	19.50000	0.21347	19.083	0.0	0.0	0.0
	-12.00000	-8.00000	19.50000	0.20740	19.083	0.0	0.0	0.0
	-11.00000	-8.00000	19.50000	0.19897	19.083	0.0	0.0	0.0
	-10.00000	-8.00000	19.50000	0.18786	19.083	0.0	0.0	0.0
	-9.00000	-8.00000	19.50000	0.17375	19.083	0.0	0.0	0.0
	-8.00000	-8.00000	19.50000	0.15633	19.083	0.0	0.0	0.0
	-7.00000	-8.00000	19.50000	0.13533	19.083	0.0	0.0	0.0
	-6.00000	-8.00000	19.50000	0.11054	19.083	0.0	0.0	0.0
	-5.00000	-8.00000	19.50000	0.081875	19.083	0.0	0.0	0.0
	-4.00000	-8.00000	19.50000	0.049421	19.083	0.0	0.0	0.0
	-3.00000	-8.00000	19.50000	0.013470	19.083	0.0	0.0	0.0
	-2.00000	-8.00000	19.50000	-0.025435	19.083	0.0	0.0	0.0
	-1.00000	-8.00000	19.50000	-0.066494	19.083	0.0	0.0	0.0
	0.00000	-8.00000	19.50000	-0.101619	19.083	0.0	0.0	0.0
	1.00000	-8.00000	19.50000	-0.15089	19.083	0.0	0.0	0.0
	2.00000	-8.00000	19.50000	-0.19193	19.083	0.0	0.0	0.0
	3.00000	-8.00000	19.50000	-0.23080	19.083	0.0	0.0	0.0
	4.00000	-8.00000	19.50000	-0.26668	19.083	0.0	0.0	0.0
	5.00000	-8.00000	19.50000	-0.29898	19.083	0.0	0.0	0.0
	6.00000	-8.00000	19.50000	-0.32738	19.083	0.0	0.0	0.0
	7.00000	-8.00000	19.50000	-0.35175	19.083	0.0	0.0	0.0
	8.00000	-8.00000	19.50000	-0.37212	19.083	0.0	0.0	0.0
	9.00000	-8.00000	19.50000	-0.38864	19.083	0.0	0.0	0.0
	10.00000	-8.00000	19.50000	-0.401449	19.083	0.0	0.0	0.0
	11.00000	-8.00000	19.50000	-0.41092	19.083	0.0	0.0	0.0
	12.00000	-8.00000	19.50000	-0.41717	19.083	0.0	0.0	0.0
	13.00000	-8.00000	19.50000	-0.42048	19.083	0.0	0.0	0.0
	14.00000	-8.00000	19.50000	-0.42106	19.083	0.0	0.0	0.0
	15.00000	-8.00000	19.50000	-0.41914	19.083	0.0	0.0	0.0
	16.00000	-8.00000	19.50000	-0.41488	19.083	0.0	0.0	0.0
	17.00000	-8.00000	19.50000	-0.40847	19.083	0.0	0.0	0.0
	18.00000	-8.00000	19.50000	-0.40006	19.083	0.0	0.0	0.0
	19.00000	-8.00000	19.50000	-0.38979	19.083	0.0	0.0	0.0
	20.00000	-8.00000	19.50000	-0.37777	19.083	0.0	0.0	0.0
	21.00000	-8.00000	19.50000	-0.36409	19.083	0.0	0.0	0.0
	22.00000	-8.00000	19.50000	-0.34878	19.083	0.0	0.0	0.0
	23.00000	-8.00000	19.50000	-0.33184	19.083	0.0	0.0	0.0
	24.00000	-8.00000	19.50000	-0.31318	19.083	0.0	0.0	0.0
	25.00000	-8.00000	19.50000	-0.29270	19.083	0.0	0.0	0.0
	26.00000	-8.00000	19.50000	-0.27023	19.083	0.0	0.0	0.0
	27.00000	-8.00000	19.50000	-0.24561	19.083	0.0	0.0	0.0
	28.00000	-8.00000	19.50000	-0.21868	19.083	0.0	0.0	0.0
	29.00000	-8.00000	19.50000	-0.18937	19.083	0.0	0.0	0.0
	30.00000	-8.00000	19.50000	-0.15772	19.083	0.0	0.0	0.0
	31.00000	-8.00000	19.50000	-0.12394	19.083	0.0	0.0	0.0
	32.00000	-8.00000	19.50000	-0.088434	19.083	0.0	0.0	0.0
	33.00000	-8.00000	19.50000	-0.051834	19.083	0.0	0.0	0.0
	34.00000	-8.00000	19.50000	-0.014952	19.083	0.0	0.0	0.0
	35.00000	-8.00000	19.50000	0.002297	19.083	0.0	0.0	0.0
	36.00000	-8.00000	19.50000	0.055997	19.083	0.0	0.0	0.0
	37.00000	-8.00000	19.50000	0.088340	19.083	0.0	0.0	0.0
	38.00000	-8.00000	19.50000	0.11771	19.083	0.0	0.0	0.0
	39.00000	-8.00000	19.50000	0.14370	19.083	0.0	0.0	0.0
	40.00000	-8.00000	19.50000	0.16615	19.083	0.0	0.0	0.0
	41.00000	-8.00000	19.50000	0.18503	19.083	0.0	0.0	0.0
	42.00000	-8.00000	19.50000	0.20050	19.083	0.0	0.0	0.0
	43.00000	-8.00000	19.50000	0.21279	19.083	0.0	0.0	0.0
	44.00000	-8.00000	19.50000	0.22217	19.083	0.0	0.0	0.0
	45.00000	-8.00000	19.50000	0.22895	19.083	0.0	0.0	0.0
	46.00000	-8.00000	19.50000	0.23345	19.083	0.0	0.0	0.0
	47.00000	-8.00000	19.50000	0.23597	19.083	0.0	0.0	0.0
	48.00000	-8.00000	19.50000	0.23679	19.083	0.0	0.0	0.0
	49.00000	-8.00000	19.50000	0.23617	19.083	0.0	0.0	0.0
	50.00000	-8.00000	19.50000	0.23436	19.083	0.0	0.0	0.0
	51.00000	-8.00000	19.50000	0.23155	19.083	0.0	0.0	0.0
	52.00000	-8.00000	19.50000	0.22793	19.083	0.0	0.0	0.0
	53.00000	-8.00000	19.50000	0.22366	19.083	0.0	0.0	0.0
	54.00000	-8.00000	19.50000	0.21888	19.083	0.0	0.0	0.0
	55.00000	-8.00000	19.50000	0.21370	19.083	0.0	0.0	0.0
	-25.00000	-7.00000	19.50000	0.19272	19.083	0.0	0.0	0.0
	-24.00000	-7.00000	19.50000	0.19777	19.083	0.0	0.0	0.0
	-23.00000	-7.00000	19.50000	0.20260	19.083	0.0	0.0	0.0
	-22.00000	-7.00000	19.50000	0.20709	19.083	0.0	0.0	0.0
	-21.00000	-7.00000	19.50000	0.21117	19.083	0.0	0.0	0.0
	-20.00000	-7.00000	19.50000	0.21470	19.083	0.0	0.0	0.0
	-19.00000	-7.00000	19.50000	0.21754	19.083	0.0	0.0	0.0
	-18.00000	-7.00000	19.50000	0.21953	19.083	0.0	0.0	0.0
	-17.00000	-7.00000	19.50000	0.22047	19.083	0.0	0.0	0.0
	-16.00000	-7.00000	19.50000	0.22015	19.083	0.0	0.0	0.0
	-15.00000	-7.00000	19.50000	0.21832	19.083	0.0	0.0	0.0
	-14.00000	-7.00000	19.50000	0.21469	19.083	0.0	0.0	0.0
	-13.00000	-7.00000	19.50000	0.20892	19.083	0.0	0.0	0.0
	-12.00000	-7.00000	19.50000	0.20066	19.083	0.0	0.0	0.0
	-11.00000	-7.00000	19.50000	0.18951	19.083	0.0	0.0	0.0
	-10.00000	-7.00000	19.50000	0.17505	19.083	0.0	0.0	0.0
	-9.00000	-7.00000	19.50000	0.15681	19.083	0.0	0.0	0.0
	-8.00000	-7.00000	19.50000	0.13434	19.083	0.0	0.0	0.0
	-7.00000	-7.00000	19.50000	0.10723	19.083	0.0	0.0	0.0
	-6.00000	-7.00000	19.50000	0.075108	19.083	0.0	0.0	0.0
	-5.00000	-7.00000	19.50000	0.037769	19.083	0.0	0.0	0.0
	-4.00000	-7.00000	19.50000	-0.0047957	19.083	0.0	0.0	0.0
	-3.00000	-7.00000	19.50000	-0.052286	19.083	0.0	0.0	0.0
	-2.00000	-7.00000	19.50000	-0.10402	19.083	0.0	0.0	0.0
	-1.00000	-7.00000	19.50000	-0.15189	19.083	0.0	0.0	0.0
	0.00000	-7.00000	19.50000	-0.21544	19.083	0.0	0.0	0.0
	1.00000	-7.00000	19.50000	-0.27196	19.083	0.0	0.0	0.0
	2.00000	-7.00000	19.50000	-0.32675	19.083	0.0	0.0	0.0
	3.00000	-7.00000	19.50000	-0.37832	19.083	0.0	0.0	0.0
	4.00000	-7.00000	19.50000	-0.42555	19.083	0.0	0.0	0.0
	5.00000	-7.00000	19.50000	-0.46773	19.083	0.0	0.0	0.0
	6.00000	-7.00000	19.50000	-0.50449	19.083	0.0	0.0	0.0
	7.00000	-7.00000	19.50000	-0.53580	19.083	0.0	0.0	0.0
	8.00000	-7.00000	19.50000	-0.56179	19.083	0.0	0.0	0.0
	9.00000	-7.00000	19.50000	-0.58275	19.083	0.0	0.0	0.0
	10.00000	-7.00000	19.50000	-0.59902	19.083	0.0	0.0	0.0
	11.00000	-7.00000	19.50000	-0.61094	19.083	0.0	0.0	0.0
	12.00000	-7.00000	19.50000	-0.61887	19.083	0.0	0.0	0.0
	13.00000	-7.00000	19.50000	-0.62313	19.083	0.0	0.0	0.0
	14.00000	-7.00000	19.50000	-0.62401	19.083	0.0	0.0	0.0
	15.00000	-7.00000	19.50000	-0.62176	19.083	0.0	0.0	0.0
	16.00000	-7.00000	19.50000	-0.61663	19.083	0.0	0.0	0.0
	17.00000	-7.00000	19.50000	-0.60881	19.083	0.0	0.0	0.0
	18.00000	-7.00000	19.50000	-0.59849	19.083	0.0	0.0	0.0
	19.00000	-7.00000	19.50000	-0.58586	19.083	0.0	0.0	0.0
	20.00000	-7.00000	19.50000	-0.57105	19.083	0.0	0.0	0.0
	21.00000	-7.00000	19.50000	-0.55420	19.083	0.0	0.0	0.0
	22.00000	-7.00000	19.50000	-0.53533	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
24.00000	-7.00000	19.50000	-0.49140	19.083	0.0	0.0	0.0
25.00000	-7.00000	19.50000	-0.46602	19.083	0.0	0.0	0.0
26.00000	-7.00000	19.50000	-0.43802	19.083	0.0	0.0	0.0
27.00000	-7.00000	19.50000	-0.40710	19.083	0.0	0.0	0.0
28.00000	-7.00000	19.50000	-0.37296	19.083	0.0	0.0	0.0
29.00000	-7.00000	19.50000	-0.33541	19.083	0.0	0.0	0.0
30.00000	-7.00000	19.50000	-0.29437	19.083	0.0	0.0	0.0
31.00000	-7.00000	19.50000	-0.25005	19.083	0.0	0.0	0.0
32.00000	-7.00000	19.50000	-0.20296	19.083	0.0	0.0	0.0
33.00000	-7.00000	19.50000	-0.15397	19.083	0.0	0.0	0.0
34.00000	-7.00000	19.50000	-0.10430	19.083	0.0	0.0	0.0
35.00000	-7.00000	19.50000	-0.055329	19.083	0.0	0.0	0.0
36.00000	-7.00000	19.50000	-0.0084610	19.083	0.0	0.0	0.0
37.00000	-7.00000	19.50000	0.035105	19.083	0.0	0.0	0.0
38.00000	-7.00000	19.50000	0.074496	19.083	0.0	0.0	0.0
39.00000	-7.00000	19.50000	0.10920	19.083	0.0	0.0	0.0
40.00000	-7.00000	19.50000	0.13906	19.083	0.0	0.0	0.0
41.00000	-7.00000	19.50000	0.16414	19.083	0.0	0.0	0.0
42.00000	-7.00000	19.50000	0.18472	19.083	0.0	0.0	0.0
43.00000	-7.00000	19.50000	0.20118	19.083	0.0	0.0	0.0
44.00000	-7.00000	19.50000	0.21393	19.083	0.0	0.0	0.0
45.00000	-7.00000	19.50000	0.22341	19.083	0.0	0.0	0.0
46.00000	-7.00000	19.50000	0.23006	19.083	0.0	0.0	0.0
47.00000	-7.00000	19.50000	0.23428	19.083	0.0	0.0	0.0
48.00000	-7.00000	19.50000	0.23642	19.083	0.0	0.0	0.0
49.00000	-7.00000	19.50000	0.23683	19.083	0.0	0.0	0.0
50.00000	-7.00000	19.50000	0.23579	19.083	0.0	0.0	0.0
51.00000	-7.00000	19.50000	0.23357	19.083	0.0	0.0	0.0
52.00000	-7.00000	19.50000	0.23037	19.083	0.0	0.0	0.0
53.00000	-7.00000	19.50000	0.22640	19.083	0.0	0.0	0.0
54.00000	-7.00000	19.50000	0.221892	19.083	0.0	0.0	0.0
55.00000	-7.00000	19.50000	0.21676	19.083	0.0	0.0	0.0
-25.00000	-6.00000	19.50000	0.19528	19.083	0.0	0.0	0.0
-24.00000	-6.00000	19.50000	0.20030	19.083	0.0	0.0	0.0
-23.00000	-6.00000	19.50000	0.20504	19.083	0.0	0.0	0.0
-22.00000	-6.00000	19.50000	0.20940	19.083	0.0	0.0	0.0
-21.00000	-6.00000	19.50000	0.21326	19.083	0.0	0.0	0.0
-20.00000	-6.00000	19.50000	0.21649	19.083	0.0	0.0	0.0
-19.00000	-6.00000	19.50000	0.21891	19.083	0.0	0.0	0.0
-18.00000	-6.00000	19.50000	0.22035	19.083	0.0	0.0	0.0
-17.00000	-6.00000	19.50000	0.22056	19.083	0.0	0.0	0.0
-16.00000	-6.00000	19.50000	0.21929	19.083	0.0	0.0	0.0
-15.00000	-6.00000	19.50000	0.21624	19.083	0.0	0.0	0.0
-14.00000	-6.00000	19.50000	0.21104	19.083	0.0	0.0	0.0
-13.00000	-6.00000	19.50000	0.20331	19.083	0.0	0.0	0.0
-12.00000	-6.00000	19.50000	0.19257	19.083	0.0	0.0	0.0
-11.00000	-6.00000	19.50000	0.17831	19.083	0.0	0.0	0.0
-10.00000	-6.00000	19.50000	0.15996	19.083	0.0	0.0	0.0
-9.00000	-6.00000	19.50000	0.13689	19.083	0.0	0.0	0.0
-8.00000	-6.00000	19.50000	0.10847	19.083	0.0	0.0	0.0
-7.00000	-6.00000	19.50000	0.074020	19.083	0.0	0.0	0.0
-6.00000	-6.00000	19.50000	0.032958	19.083	0.0	0.0	0.0
-5.00000	-6.00000	19.50000	-0.015181	19.083	0.0	0.0	0.0
-4.00000	-6.00000	19.50000	-0.070594	19.083	0.0	0.0	0.0
-3.00000	-6.00000	19.50000	-0.13306	19.083	0.0	0.0	0.0
-2.00000	-6.00000	19.50000	-0.20178	19.083	0.0	0.0	0.0
-1.00000	-6.00000	19.50000	-0.27523	19.083	0.0	0.0	0.0
0.00000	-6.00000	19.50000	-0.35124	19.083	0.0	0.0	0.0
1.00000	-6.00000	19.50000	-0.42719	19.083	0.0	0.0	0.0
2.00000	-6.00000	19.50000	-0.50048	19.083	0.0	0.0	0.0
3.00000	-6.00000	19.50000	-0.56890	19.083	0.0	0.0	0.0
4.00000	-6.00000	19.50000	-0.63091	19.083	0.0	0.0	0.0
5.00000	-6.00000	19.50000	-0.68567	19.083	0.0	0.0	0.0
6.00000	-6.00000	19.50000	-0.73289	19.083	0.0	0.0	0.0
7.00000	-6.00000	19.50000	-0.77270	19.083	0.0	0.0	0.0
8.00000	-6.00000	19.50000	-0.80549	19.083	0.0	0.0	0.0
9.00000	-6.00000	19.50000	-0.83175	19.083	0.0	0.0	0.0
10.00000	-6.00000	19.50000	-0.85203	19.083	0.0	0.0	0.0
11.00000	-6.00000	19.50000	-0.86685	19.083	0.0	0.0	0.0
12.00000	-6.00000	19.50000	-0.87671	19.083	0.0	0.0	0.0
13.00000	-6.00000	19.50000	-0.88203	19.083	0.0	0.0	0.0
14.00000	-6.00000	19.50000	-0.88319	19.083	0.0	0.0	0.0
15.00000	-6.00000	19.50000	-0.88051	19.083	0.0	0.0	0.0
16.00000	-6.00000	19.50000	-0.87426	19.083	0.0	0.0	0.0
17.00000	-6.00000	19.50000	-0.86468	19.083	0.0	0.0	0.0
18.00000	-6.00000	19.50000	-0.85200	19.083	0.0	0.0	0.0
19.00000	-6.00000	19.50000	-0.83645	19.083	0.0	0.0	0.0
20.00000	-6.00000	19.50000	-0.81823	19.083	0.0	0.0	0.0
21.00000	-6.00000	19.50000	-0.79751	19.083	0.0	0.0	0.0
22.00000	-6.00000	19.50000	-0.77437	19.083	0.0	0.0	0.0
23.00000	-6.00000	19.50000	-0.74877	19.083	0.0	0.0	0.0
24.00000	-6.00000	19.50000	-0.72054	19.083	0.0	0.0	0.0
25.00000	-6.00000	19.50000	-0.68936	19.083	0.0	0.0	0.0
26.00000	-6.00000	19.50000	-0.65479	19.083	0.0	0.0	0.0
27.00000	-6.00000	19.50000	-0.61632	19.083	0.0	0.0	0.0
28.00000	-6.00000	19.50000	-0.57340	19.083	0.0	0.0	0.0
29.00000	-6.00000	19.50000	-0.52561	19.083	0.0	0.0	0.0
30.00000	-6.00000	19.50000	-0.47266	19.083	0.0	0.0	0.0
31.00000	-6.00000	19.50000	-0.41467	19.083	0.0	0.0	0.0
32.00000	-6.00000	19.50000	-0.35222	19.083	0.0	0.0	0.0
33.00000	-6.00000	19.50000	-0.28654	19.083	0.0	0.0	0.0
34.00000	-6.00000	19.50000	-0.21945	19.083	0.0	0.0	0.0
35.00000	-6.00000	19.50000	-0.15315	19.083	0.0	0.0	0.0
36.00000	-6.00000	19.50000	-0.089828	19.083	0.0	0.0	0.0
37.00000	-6.00000	19.50000	-0.031311	19.083	0.0	0.0	0.0
38.00000	-6.00000	19.50000	0.021177	19.083	0.0	0.0	0.0
39.00000	-6.00000	19.50000	0.067035	19.083	0.0	0.0	0.0
40.00000	-6.00000	19.50000	0.10618	19.083	0.0	0.0	0.0
41.00000	-6.00000	19.50000	0.13888	19.083	0.0	0.0	0.0
42.00000	-6.00000	19.50000	0.16565	19.083	0.0	0.0	0.0
43.00000	-6.00000	19.50000	0.18707	19.083	0.0	0.0	0.0
44.00000	-6.00000	19.50000	0.20379	19.083	0.0	0.0	0.0
45.00000	-6.00000	19.50000	0.21642	19.083	0.0	0.0	0.0
46.00000	-6.00000	19.50000	0.22555	19.083	0.0	0.0	0.0
47.00000	-6.00000	19.50000	0.23171	19.083	0.0	0.0	0.0
48.00000	-6.00000	19.50000	0.23517	19.083	0.0	0.0	0.0
49.00000	-6.00000	19.50000	0.23694	19.083	0.0	0.0	0.0
50.00000	-6.00000	19.50000	0.23679	19.083	0.0	0.0	0.0
51.00000	-6.00000	19.50000	0.23523	19.083	0.0	0.0	0.0
52.00000	-6.00000	19.50000	0.23252	19.083	0.0	0.0	0.0
53.00000	-6.00000	19.50000	0.22890	19.083	0.0	0.0	0.0
54.00000	-6.00000	19.50000	0.22455	19.083	0.0	0.0	0.0
55.00000	-6.00000	19.50000	0.21965	19.083	0.0	0.0	0.0
-25.00000	-5.00000	19.50000	0.19770	19.083	0.0	0.0	0.0
-24.00000	-5.00000	19.50000	0.20267	19.083	0.0	0.0	0.0
-23.00000	-5.00000	19.50000	0.20732	19.083	0.0	0.0	0.0
-22.00000	-5.00000	19.50000	0.21152	19.083	0.0	0.0	0.0
-21.00000	-5.00000	19.50000	0.21514	19.083	0.0	0.0	0.0
-20.00000	-5.00000	19.50000	0.21803	19.083	0.0	0.0	0.0
-19.00000	-5.00000	19.50000	0.22000	19.083	0.0	0.0	0.0
-18.00000	-5.00000	19.50000	0.22082	19.083	0.0	0.0	0.0
-17.00000	-5.00000	19.50000	0.22023	19.083	0.0	0.0	0.0
-16.00000	-5.00000	19.50000	0.21791	19.083	0.0	0.0	0.0
-15.00000	-5.00000	19.50000	0.21351	19.083	0.0	0.0	0.0
-14.00000	-5.00000	19.50000	0.20659	19.083	0.0	0.0	0.0
-13.00000	-5.00000	19.50000	0.19666	19.083	0.0	0.0	0.0
-12.00000	-5.00000	19.50000	0.18315	19.083	0.0	0.0	0.0
-11.00000	-5.00000	19.50000	0.16538	19.083	0.0	0.0	0.0
-10.00000	-5.00000	19.50000	0.14261	19.083	0.0	0.0	0.0
-9.00000	-5.00000	19.50000	0.11400	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-8.00000	-5.00000	19.50000	0.078624	19.083	0.0	0.0
	-7.00000	-5.00000	19.50000	0.035490	19.083	0.0	0.0
	-6.00000	-5.00000	19.50000	-0.016377	19.083	0.0	0.0
	-5.00000	-5.00000	19.50000	-0.077856	19.083	0.0	0.0
	-4.00000	-5.00000	19.50000	-0.149555	19.083	0.0	0.0
	-3.00000	-5.00000	19.50000	-0.23153	19.083	0.0	0.0
	-2.00000	-5.00000	19.50000	-0.32298	19.083	0.0	0.0
	-1.00000	-5.00000	19.50000	-0.42186	19.083	0.0	0.0
	0.00000	-5.00000	19.50000	-0.52487	19.083	0.0	0.0
	1.00000	-5.00000	19.50000	-0.62780	19.083	0.0	0.0
	2.00000	-5.00000	19.50000	-0.72644	19.083	0.0	0.0
	3.00000	-5.00000	19.50000	-0.81744	19.083	0.0	0.0
	4.00000	-5.00000	19.50000	-0.89875	19.083	0.0	0.0
	5.00000	-5.00000	19.50000	-0.96950	19.083	0.0	0.0
	6.00000	-5.00000	19.50000	-1.0297	19.083	0.0	0.0
	7.00000	-5.00000	19.50000	-1.0798	19.083	0.0	0.0
	8.00000	-5.00000	19.50000	-1.1207	19.083	0.0	0.0
	9.00000	-5.00000	19.50000	-1.1532	19.083	0.0	0.0
	10.00000	-5.00000	19.50000	-1.1781	19.083	0.0	0.0
	11.00000	-5.00000	19.50000	-1.1963	19.083	0.0	0.0
	12.00000	-5.00000	19.50000	-1.2083	19.083	0.0	0.0
	13.00000	-5.00000	19.50000	-1.2148	19.083	0.0	0.0
	14.00000	-5.00000	19.50000	-1.2162	19.083	0.0	0.0
	15.00000	-5.00000	19.50000	-1.2129	19.083	0.0	0.0
	16.00000	-5.00000	19.50000	-1.2053	19.083	0.0	0.0
	17.00000	-5.00000	19.50000	-1.1935	19.083	0.0	0.0
	18.00000	-5.00000	19.50000	-1.1779	19.083	0.0	0.0
	19.00000	-5.00000	19.50000	-1.1586	19.083	0.0	0.0
	20.00000	-5.00000	19.50000	-1.1362	19.083	0.0	0.0
	21.00000	-5.00000	19.50000	-1.1107	19.083	0.0	0.0
	22.00000	-5.00000	19.50000	-1.0823	19.083	0.0	0.0
	23.00000	-5.00000	19.50000	-1.0511	19.083	0.0	0.0
	24.00000	-5.00000	19.50000	-1.0168	19.083	0.0	0.0
	25.00000	-5.00000	19.50000	-0.97883	19.083	0.0	0.0
	26.00000	-5.00000	19.50000	-0.93655	19.083	0.0	0.0
	27.00000	-5.00000	19.50000	-0.88912	19.083	0.0	0.0
	28.00000	-5.00000	19.50000	-0.83563	19.083	0.0	0.0
	29.00000	-5.00000	19.50000	-0.77521	19.083	0.0	0.0
	30.00000	-5.00000	19.50000	-0.70719	19.083	0.0	0.0
	31.00000	-5.00000	19.50000	-0.63139	19.083	0.0	0.0
	32.00000	-5.00000	19.50000	-0.54837	19.083	0.0	0.0
	33.00000	-5.00000	19.50000	-0.45978	19.083	0.0	0.0
	34.00000	-5.00000	19.50000	-0.36845	19.083	0.0	0.0
	35.00000	-5.00000	19.50000	-0.27800	19.083	0.0	0.0
	36.00000	-5.00000	19.50000	-0.19203	19.083	0.0	0.0
	37.00000	-5.00000	19.50000	-0.11338	19.083	0.0	0.0
	38.00000	-5.00000	19.50000	-0.043719	19.083	0.0	0.0
	39.00000	-5.00000	19.50000	0.016364	19.083	0.0	0.0
	40.00000	-5.00000	19.50000	0.067062	19.083	0.0	0.0
	41.00000	-5.00000	19.50000	0.10904	19.083	0.0	0.0
	42.00000	-5.00000	19.50000	0.14317	19.083	0.0	0.0
	43.00000	-5.00000	19.50000	0.17043	19.083	0.0	0.0
	44.00000	-5.00000	19.50000	0.19174	19.083	0.0	0.0
	45.00000	-5.00000	19.50000	0.20797	19.083	0.0	0.0
	46.00000	-5.00000	19.50000	0.21992	19.083	0.0	0.0
	47.00000	-5.00000	19.50000	0.22628	19.083	0.0	0.0
	48.00000	-5.00000	19.50000	0.23363	19.083	0.0	0.0
	49.00000	-5.00000	19.50000	0.23651	19.083	0.0	0.0
	50.00000	-5.00000	19.50000	0.23735	19.083	0.0	0.0
	51.00000	-5.00000	19.50000	0.23653	19.083	0.0	0.0
	52.00000	-5.00000	19.50000	0.23437	19.083	0.0	0.0
	53.00000	-5.00000	19.50000	0.23114	19.083	0.0	0.0
	54.00000	-5.00000	19.50000	0.22707	19.083	0.0	0.0
	55.00000	-5.00000	19.50000	0.22234	19.083	0.0	0.0
	-25.00000	-4.00000	19.50000	0.20000	19.083	0.0	0.0
	-24.00000	-4.00000	19.50000	0.20490	19.083	0.0	0.0
	-23.00000	-4.00000	19.50000	0.20943	19.083	0.0	0.0
	-22.00000	-4.00000	19.50000	0.21345	19.083	0.0	0.0
	-21.00000	-4.00000	19.50000	0.21681	19.083	0.0	0.0
	-20.00000	-4.00000	19.50000	0.21933	19.083	0.0	0.0
	-19.00000	-4.00000	19.50000	0.22080	19.083	0.0	0.0
	-18.00000	-4.00000	19.50000	0.22095	19.083	0.0	0.0
	-17.00000	-4.00000	19.50000	0.21949	19.083	0.0	0.0
	-16.00000	-4.00000	19.50000	0.21604	19.083	0.0	0.0
	-15.00000	-4.00000	19.50000	0.21017	19.083	0.0	0.0
	-14.00000	-4.00000	19.50000	0.20137	19.083	0.0	0.0
	-13.00000	-4.00000	19.50000	0.18905	19.083	0.0	0.0
	-12.00000	-4.00000	19.50000	0.17248	19.083	0.0	0.0
	-11.00000	-4.00000	19.50000	0.15083	19.083	0.0	0.0
	-10.00000	-4.00000	19.50000	0.12312	19.083	0.0	0.0
	-9.00000	-4.00000	19.50000	0.088240	19.083	0.0	0.0
	-8.00000	-4.00000	19.50000	0.044890	19.083	0.0	0.0
	-7.00000	-4.00000	19.50000	-0.0083693	19.083	0.0	0.0
	-6.00000	-4.00000	19.50000	-0.073095	19.083	0.0	0.0
	-5.00000	-4.00000	19.50000	-0.15086	19.083	0.0	0.0
	-4.00000	-4.00000	19.50000	-0.24306	19.083	0.0	0.0
	-3.00000	-4.00000	19.50000	-0.35050	19.083	0.0	0.0
	-2.00000	-4.00000	19.50000	-0.47277	19.083	0.0	0.0
	-1.00000	-4.00000	19.50000	-0.60736	19.083	0.0	0.0
	0.00000	-4.00000	19.50000	-0.74908	19.083	0.0	0.0
	1.00000	-4.00000	19.50000	-0.89070	19.083	0.0	0.0
	2.00000	-4.00000	19.50000	-1.0249	19.083	0.0	0.0
	3.00000	-4.00000	19.50000	-1.1466	19.083	0.0	0.0
	4.00000	-4.00000	19.50000	-1.2532	19.083	0.0	0.0
	5.00000	-4.00000	19.50000	-1.3441	19.083	0.0	0.0
	6.00000	-4.00000	19.50000	-1.4202	19.083	0.0	0.0
	7.00000	-4.00000	19.50000	-1.4827	19.083	0.0	0.0
	8.00000	-4.00000	19.50000	-1.5330	19.083	0.0	0.0
	9.00000	-4.00000	19.50000	-1.5727	19.083	0.0	0.0
	10.00000	-4.00000	19.50000	-1.6029	19.083	0.0	0.0
	11.00000	-4.00000	19.50000	-1.6248	19.083	0.0	0.0
	12.00000	-4.00000	19.50000	-1.6392	19.083	0.0	0.0
	13.00000	-4.00000	19.50000	-1.6470	19.083	0.0	0.0
	14.00000	-4.00000	19.50000	-1.6486	19.083	0.0	0.0
	15.00000	-4.00000	19.50000	-1.6445	19.083	0.0	0.0
	16.00000	-4.00000	19.50000	-1.6351	19.083	0.0	0.0
	17.00000	-4.00000	19.50000	-1.6205	19.083	0.0	0.0
	18.00000	-4.00000	19.50000	-1.6011	19.083	0.0	0.0
	19.00000	-4.00000	19.50000	-1.5772	19.083	0.0	0.0
	20.00000	-4.00000	19.50000	-1.5492	19.083	0.0	0.0
	21.00000	-4.00000	19.50000	-1.5176	19.083	0.0	0.0
	22.00000	-4.00000	19.50000	-1.4828	19.083	0.0	0.0
	23.00000	-4.00000	19.50000	-1.4449	19.083	0.0	0.0
	24.00000	-4.00000	19.50000	-1.4035	19.083	0.0	0.0
	25.00000	-4.00000	19.50000	-1.3577	19.083	0.0	0.0
	26.00000	-4.00000	19.50000	-1.3065	19.083	0.0	0.0
	27.00000	-4.00000	19.50000	-1.2486	19.083	0.0	0.0
	28.00000	-4.00000	19.50000	-1.1825	19.083	0.0	0.0
	29.00000	-4.00000	19.50000	-1.1067	19.083	0.0	0.0
	30.00000	-4.00000	19.50000	-1.0198	19.083	0.0	0.0
	31.00000	-4.00000	19.50000	-0.92074	19.083	0.0	0.0
	32.00000	-4.00000	19.50000	-0.80980	19.083	0.0	0.0
	33.00000	-4.00000	19.50000	-0.68901	19.083	0.0	0.0
	34.00000	-4.00000	19.50000	-0.56286	19.083	0.0	0.0
	35.00000	-4.00000	19.50000	-0.43768	19.083	0.0	0.0
	36.00000	-4.00000	19.50000	-0.31390	19.083	0.0	0.0
	37.00000	-4.00000	19.50000	-0.21371	19.083	0.0	0.0
	38.00000	-4.00000	19.50000	-0.12151	19.083	0.0	0.0
	39.00000	-4.00000	19.50000	-0.043406	19.083	0.0	0.0
	40.00000	-4.00000	19.50000	0.021486	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
41.00000	-4.00000	19.50000	0.074556	19.083	0.0	0.0	0.0
42.00000	-4.00000	19.50000	0.11734	19.083	0.0	0.0	0.0
43.00000	-4.00000	19.50000	0.15131	19.083	0.0	0.0	0.0
44.00000	-4.00000	19.50000	0.17785	19.083	0.0	0.0	0.0
45.00000	-4.00000	19.50000	0.19814	19.083	0.0	0.0	0.0
46.00000	-4.00000	19.50000	0.21324	19.083	0.0	0.0	0.0
47.00000	-4.00000	19.50000	0.22402	19.083	0.0	0.0	0.0
48.00000	-4.00000	19.50000	0.23125	19.083	0.0	0.0	0.0
49.00000	-4.00000	19.50000	0.23556	19.083	0.0	0.0	0.0
50.00000	-4.00000	19.50000	0.23749	19.083	0.0	0.0	0.0
51.00000	-4.00000	19.50000	0.23749	19.083	0.0	0.0	0.0
52.00000	-4.00000	19.50000	0.23593	19.083	0.0	0.0	0.0
53.00000	-4.00000	19.50000	0.23314	19.083	0.0	0.0	0.0
54.00000	-4.00000	19.50000	0.22938	19.083	0.0	0.0	0.0
55.00000	-4.00000	19.50000	0.22485	19.083	0.0	0.0	0.0
-25.00000	-3.00000	19.50000	0.20215	19.083	0.0	0.0	0.0
-24.00000	-3.00000	19.50000	0.20698	19.083	0.0	0.0	0.0
-23.00000	-3.00000	19.50000	0.21138	19.083	0.0	0.0	0.0
-22.00000	-3.00000	19.50000	0.21520	19.083	0.0	0.0	0.0
-21.00000	-3.00000	19.50000	0.21828	19.083	0.0	0.0	0.0
-20.00000	-3.00000	19.50000	0.22040	19.083	0.0	0.0	0.0
-19.00000	-3.00000	19.50000	0.22134	19.083	0.0	0.0	0.0
-18.00000	-3.00000	19.50000	0.22078	19.083	0.0	0.0	0.0
-17.00000	-3.00000	19.50000	0.21838	19.083	0.0	0.0	0.0
-16.00000	-3.00000	19.50000	0.21372	19.083	0.0	0.0	0.0
-15.00000	-3.00000	19.50000	0.20629	19.083	0.0	0.0	0.0
-14.00000	-3.00000	19.50000	0.19548	19.083	0.0	0.0	0.0
-13.00000	-3.00000	19.50000	0.18057	19.083	0.0	0.0	0.0
-12.00000	-3.00000	19.50000	0.16069	19.083	0.0	0.0	0.0
-11.00000	-3.00000	19.50000	0.13481	19.083	0.0	0.0	0.0
-10.00000	-3.00000	19.50000	0.10169	19.083	0.0	0.0	0.0
-9.00000	-3.00000	19.50000	0.059860	19.083	0.0	0.0	0.0
-8.00000	-3.00000	19.50000	0.0075607	19.083	0.0	0.0	0.0
-7.00000	-3.00000	19.50000	-0.057258	19.083	0.0	0.0	0.0
-6.00000	-3.00000	19.50000	-0.13698	19.083	0.0	0.0	0.0
-5.00000	-3.00000	19.50000	-0.21427	19.083	0.0	0.0	0.0
-4.00000	-3.00000	19.50000	-0.35194	19.083	0.0	0.0	0.0
-3.00000	-3.00000	19.50000	-0.49249	19.083	0.0	0.0	0.0
-2.00000	-3.00000	19.50000	-0.65710	19.083	0.0	0.0	0.0
-1.00000	-3.00000	19.50000	-0.84356	19.083	0.0	0.0	0.0
0.00000	-3.00000	19.50000	-1.0438	19.083	0.0	0.0	0.0
1.00000	-3.00000	19.50000	-1.2438	19.083	0.0	0.0	0.0
2.00000	-3.00000	19.50000	-1.4299	19.083	0.0	0.0	0.0
3.00000	-3.00000	19.50000	-1.5937	19.083	0.0	0.0	0.0
4.00000	-3.00000	19.50000	-1.7331	19.083	0.0	0.0	0.0
5.00000	-3.00000	19.50000	-1.8492	19.083	0.0	0.0	0.0
6.00000	-3.00000	19.50000	-1.9444	19.083	0.0	0.0	0.0
7.00000	-3.00000	19.50000	-2.0213	19.083	0.0	0.0	0.0
8.00000	-3.00000	19.50000	-2.0825	19.083	0.0	0.0	0.0
9.00000	-3.00000	19.50000	-2.1303	19.083	0.0	0.0	0.0
10.00000	-3.00000	19.50000	-2.1664	19.083	0.0	0.0	0.0
11.00000	-3.00000	19.50000	-2.1924	19.083	0.0	0.0	0.0
12.00000	-3.00000	19.50000	-2.2095	19.083	0.0	0.0	0.0
13.00000	-3.00000	19.50000	-2.2185	19.083	0.0	0.0	0.0
14.00000	-3.00000	19.50000	-2.2203	19.083	0.0	0.0	0.0
15.00000	-3.00000	19.50000	-2.2152	19.083	0.0	0.0	0.0
16.00000	-3.00000	19.50000	-2.2035	19.083	0.0	0.0	0.0
17.00000	-3.00000	19.50000	-2.1855	19.083	0.0	0.0	0.0
18.00000	-3.00000	19.50000	-2.1612	19.083	0.0	0.0	0.0
19.00000	-3.00000	19.50000	-2.1308	19.083	0.0	0.0	0.0
20.00000	-3.00000	19.50000	-2.0951	19.083	0.0	0.0	0.0
21.00000	-3.00000	19.50000	-2.0552	19.083	0.0	0.0	0.0
22.00000	-3.00000	19.50000	-2.0121	19.083	0.0	0.0	0.0
23.00000	-3.00000	19.50000	-1.9660	19.083	0.0	0.0	0.0
24.00000	-3.00000	19.50000	-1.9163	19.083	0.0	0.0	0.0
25.00000	-3.00000	19.50000	-1.8616	19.083	0.0	0.0	0.0
26.00000	-3.00000	19.50000	-1.8003	19.083	0.0	0.0	0.0
27.00000	-3.00000	19.50000	-1.7305	19.083	0.0	0.0	0.0
28.00000	-3.00000	19.50000	-1.6498	19.083	0.0	0.0	0.0
29.00000	-3.00000	19.50000	-1.5556	19.083	0.0	0.0	0.0
30.00000	-3.00000	19.50000	-1.4451	19.083	0.0	0.0	0.0
31.00000	-3.00000	19.50000	-1.3159	19.083	0.0	0.0	0.0
32.00000	-3.00000	19.50000	-1.1666	19.083	0.0	0.0	0.0
33.00000	-3.00000	19.50000	-0.99910	19.083	0.0	0.0	0.0
34.00000	-3.00000	19.50000	-0.82044	19.083	0.0	0.0	0.0
35.00000	-3.00000	19.50000	-0.64286	19.083	0.0	0.0	0.0
36.00000	-3.00000	19.50000	-0.47854	19.083	0.0	0.0	0.0
37.00000	-3.00000	19.50000	-0.33464	19.083	0.0	0.0	0.0
38.00000	-3.00000	19.50000	-0.21300	19.083	0.0	0.0	0.0
39.00000	-3.00000	19.50000	-0.11240	19.083	0.0	0.0	0.0
40.00000	-3.00000	19.50000	-0.030403	19.083	0.0	0.0	0.0
41.00000	-3.00000	19.50000	0.035672	19.083	0.0	0.0	0.0
42.00000	-3.00000	19.50000	0.088369	19.083	0.0	0.0	0.0
43.00000	-3.00000	19.50000	0.12993	19.083	0.0	0.0	0.0
44.00000	-3.00000	19.50000	0.16229	19.083	0.0	0.0	0.0
45.00000	-3.00000	19.50000	0.18706	19.083	0.0	0.0	0.0
46.00000	-3.00000	19.50000	0.20559	19.083	0.0	0.0	0.0
47.00000	-3.00000	19.50000	0.21902	19.083	0.0	0.0	0.0
48.00000	-3.00000	19.50000	0.22827	19.083	0.0	0.0	0.0
49.00000	-3.00000	19.50000	0.23413	19.083	0.0	0.0	0.0
50.00000	-3.00000	19.50000	0.23723	19.083	0.0	0.0	0.0
51.00000	-3.00000	19.50000	0.23811	19.083	0.0	0.0	0.0
52.00000	-3.00000	19.50000	0.23721	19.083	0.0	0.0	0.0
53.00000	-3.00000	19.50000	0.23490	19.083	0.0	0.0	0.0
54.00000	-3.00000	19.50000	0.23147	19.083	0.0	0.0	0.0
55.00000	-3.00000	19.50000	0.22718	19.083	0.0	0.0	0.0
-25.00000	-2.00000	19.50000	0.20417	19.083	0.0	0.0	0.0
-24.00000	-2.00000	19.50000	0.20891	19.083	0.0	0.0	0.0
-23.00000	-2.00000	19.50000	0.21317	19.083	0.0	0.0	0.0
-22.00000	-2.00000	19.50000	0.21677	19.083	0.0	0.0	0.0
-21.00000	-2.00000	19.50000	0.21955	19.083	0.0	0.0	0.0
-20.00000	-2.00000	19.50000	0.22126	19.083	0.0	0.0	0.0
-19.00000	-2.00000	19.50000	0.22163	19.083	0.0	0.0	0.0
-18.00000	-2.00000	19.50000	0.22032	19.083	0.0	0.0	0.0
-17.00000	-2.00000	19.50000	0.21695	19.083	0.0	0.0	0.0
-16.00000	-2.00000	19.50000	0.21101	19.083	0.0	0.0	0.0
-15.00000	-2.00000	19.50000	0.20193	19.083	0.0	0.0	0.0
-14.00000	-2.00000	19.50000	0.18900	19.083	0.0	0.0	0.0
-13.00000	-2.00000	19.50000	0.17137	19.083	0.0	0.0	0.0
-12.00000	-2.00000	19.50000	0.14799	19.083	0.0	0.0	0.0
-11.00000	-2.00000	19.50000	0.11759	19.083	0.0	0.0	0.0
-10.00000	-2.00000	19.50000	0.078655	19.083	0.0	0.0	0.0
-9.00000	-2.00000	19.50000	0.029287	19.083	0.0	0.0	0.0
-8.00000	-2.00000	19.50000	-0.032818	19.083	0.0	0.0	0.0
-7.00000	-2.00000	19.50000	-0.11049	19.083	0.0	0.0	0.0
-6.00000	-2.00000	19.50000	-0.20721	19.083	0.0	0.0	0.0
-5.00000	-2.00000	19.50000	-0.32725	19.083	0.0	0.0	0.0
-4.00000	-2.00000	19.50000	-0.47575	19.083	0.0	0.0	0.0
-3.00000	-2.00000	19.50000	-0.65865	19.083	0.0	0.0	0.0
-2.00000	-2.00000	19.50000	-0.88178	19.083	0.0	0.0	0.0
-1.00000	-2.00000	19.50000	-1.1473	19.083	0.0	0.0	0.0
0.00000	-2.00000	19.50000	-1.4441	19.083	0.0	0.0	0.0
1.00000	-2.00000	19.50000	-1.7408	19.083	0.0	0.0	0.0
2.00000	-2.00000	19.50000	-2.0058	19.083	0.0	0.0	0.0
3.00000	-2.00000	19.50000	-2.2280	19.083	0.0	0.0	0.0
4.00000	-2.00000	19.50000	-2.4095	19.083	0.0	0.0	0.0
5.00000	-2.00000	19.50000	-2.5561	19.083	0.0	0.0	0.0
6.00000	-2.00000	19.50000	-2.6735	19.083	0.0	0.0	0.0
7.00000	-2.00000	19.50000	-2.7669	19.083	0.0	0.0	0.0
8.00000	-2.00000	19.50000	-2.8403	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location			Displacement		Stresses		
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	9.00000	-2.00000	19.50000	-2.8970	19.083	0.0	0.0	0.0
	10.0000	-2.00000	19.50000	-2.9395	19.083	0.0	0.0	0.0
	11.00000	-2.00000	19.50000	-2.9699	19.083	0.0	0.0	0.0
	12.0000	-2.00000	19.50000	-2.9898	19.083	0.0	0.0	0.0
	13.00000	-2.00000	19.50000	-3.0002	19.083	0.0	0.0	0.0
	14.00000	-2.00000	19.50000	-3.0020	19.083	0.0	0.0	0.0
	15.00000	-2.00000	19.50000	-2.9956	19.083	0.0	0.0	0.0
	16.00000	-2.00000	19.50000	-2.9813	19.083	0.0	0.0	0.0
	17.00000	-2.00000	19.50000	-2.9589	19.083	0.0	0.0	0.0
	18.00000	-2.00000	19.50000	-2.9279	19.083	0.0	0.0	0.0
	19.00000	-2.00000	19.50000	-2.8878	19.083	0.0	0.0	0.0
	20.00000	-2.00000	19.50000	-2.8394	19.083	0.0	0.0	0.0
	21.00000	-2.00000	19.50000	-2.7862	19.083	0.0	0.0	0.0
	22.00000	-2.00000	19.50000	-2.7315	19.083	0.0	0.0	0.0
	23.00000	-2.00000	19.50000	-2.6753	19.083	0.0	0.0	0.0
	24.00000	-2.00000	19.50000	-2.6160	19.083	0.0	0.0	0.0
	25.00000	-2.00000	19.50000	-2.5513	19.083	0.0	0.0	0.0
	26.00000	-2.00000	19.50000	-2.4789	19.083	0.0	0.0	0.0
	27.00000	-2.00000	19.50000	-2.3958	19.083	0.0	0.0	0.0
	28.00000	-2.00000	19.50000	-2.2985	19.083	0.0	0.0	0.0
	29.00000	-2.00000	19.50000	-2.1829	19.083	0.0	0.0	0.0
	30.00000	-2.00000	19.50000	-2.0441	19.083	0.0	0.0	0.0
	31.00000	-2.00000	19.50000	-1.8763	19.083	0.0	0.0	0.0
	32.00000	-2.00000	19.50000	-1.6742	19.083	0.0	0.0	0.0
	33.00000	-2.00000	19.50000	-1.4359	19.083	0.0	0.0	0.0
	34.00000	-2.00000	19.50000	-1.1715	19.083	0.0	0.0	0.0
	35.00000	-2.00000	19.50000	-0.90816	19.083	0.0	0.0	0.0
	36.00000	-2.00000	19.50000	-0.67344	19.083	0.0	0.0	0.0
	37.00000	-2.00000	19.50000	-0.47727	19.083	0.0	0.0	0.0
	38.00000	-2.00000	19.50000	-0.31787	19.083	0.0	0.0	0.0
	39.00000	-2.00000	19.50000	-0.18993	19.083	0.0	0.0	0.0
	40.00000	-2.00000	19.50000	-0.087933	19.083	0.0	0.0	0.0
	41.00000	-2.00000	19.50000	-0.0070496	19.083	0.0	0.0	0.0
	42.00000	-2.00000	19.50000	0.056719	19.083	0.0	0.0	0.0
	43.00000	-2.00000	19.50000	0.10663	19.083	0.0	0.0	0.0
	44.00000	-2.00000	19.50000	0.14532	19.083	0.0	0.0	0.0
	45.00000	-2.00000	19.50000	0.17491	19.083	0.0	0.0	0.0
	46.00000	-2.00000	19.50000	0.19713	19.083	0.0	0.0	0.0
	47.00000	-2.00000	19.50000	0.21338	19.083	0.0	0.0	0.0
	48.00000	-2.00000	19.50000	0.22478	19.083	0.0	0.0	0.0
	49.00000	-2.00000	19.50000	0.23228	19.083	0.0	0.0	0.0
	50.00000	-2.00000	19.50000	0.23663	19.083	0.0	0.0	0.0
	51.00000	-2.00000	19.50000	0.23844	19.083	0.0	0.0	0.0
	52.00000	-2.00000	19.50000	0.23824	19.083	0.0	0.0	0.0
	53.00000	-2.00000	19.50000	0.23643	19.083	0.0	0.0	0.0
	54.00000	-2.00000	19.50000	0.23336	19.083	0.0	0.0	0.0
	55.00000	-2.00000	19.50000	0.22931	19.083	0.0	0.0	0.0
	-25.00000	-1.00000	19.50000	0.20605	19.083	0.0	0.0	0.0
	-24.00000	-1.00000	19.50000	0.21069	19.083	0.0	0.0	0.0
	-23.00000	-1.00000	19.50000	0.21479	19.083	0.0	0.0	0.0
	-22.00000	-1.00000	19.50000	0.21818	19.083	0.0	0.0	0.0
	-21.00000	-1.00000	19.50000	0.22063	19.083	0.0	0.0	0.0
	-20.00000	-1.00000	19.50000	0.22191	19.083	0.0	0.0	0.0
	-19.00000	-1.00000	19.50000	0.22170	19.083	0.0	0.0	0.0
	-18.00000	-1.00000	19.50000	0.21962	19.083	0.0	0.0	0.0
	-17.00000	-1.00000	19.50000	0.21524	19.083	0.0	0.0	0.0
	-16.00000	-1.00000	19.50000	0.20799	19.083	0.0	0.0	0.0
	-15.00000	-1.00000	19.50000	0.19721	19.083	0.0	0.0	0.0
	-14.00000	-1.00000	19.50000	0.18208	19.083	0.0	0.0	0.0
	-13.00000	-1.00000	19.50000	0.16162	19.083	0.0	0.0	0.0
	-12.00000	-1.00000	19.50000	0.13459	19.083	0.0	0.0	0.0
	-11.00000	-1.00000	19.50000	0.099482	19.083	0.0	0.0	0.0
	-10.00000	-1.00000	19.50000	0.054436	19.083	0.0	0.0	0.0
	-9.00000	-1.00000	19.50000	-0.0028915	19.083	0.0	0.0	0.0
	-8.00000	-1.00000	19.50000	-0.075441	19.083	0.0	0.0	0.0
	-7.00000	-1.00000	19.50000	-0.16596	19.083	0.0	0.0	0.0
	-6.00000	-1.00000	19.50000	-0.28229	19.083	0.0	0.0	0.0
	-5.00000	-1.00000	19.50000	-0.42778	19.083	0.0	0.0	0.0
	-4.00000	-1.00000	19.50000	-0.61200	19.083	0.0	0.0	0.0
	-3.00000	-1.00000	19.50000	-0.84679	19.083	0.0	0.0	0.0
	-2.00000	-1.00000	19.50000	-1.1490	19.083	0.0	0.0	0.0
	-1.00000	-1.00000	19.50000	-1.5410	19.083	0.0	0.0	0.0
	0.00000	-1.00000	19.50000	-2.0287	19.083	0.0	0.0	0.0
	1.00000	-1.00000	19.50000	-2.5163	19.083	0.0	0.0	0.0
	2.00000	-1.00000	19.50000	-2.9076	19.083	0.0	0.0	0.0
	3.00000	-1.00000	19.50000	-3.2087	19.083	0.0	0.0	0.0
	4.00000	-1.00000	19.50000	-3.4419	19.083	0.0	0.0	0.0
	5.00000	-1.00000	19.50000	-3.6238	19.083	0.0	0.0	0.0
	6.00000	-1.00000	19.50000	-3.7663	19.083	0.0	0.0	0.0
	7.00000	-1.00000	19.50000	-3.8777	19.083	0.0	0.0	0.0
	8.00000	-1.00000	19.50000	-3.9642	19.083	0.0	0.0	0.0
	9.00000	-1.00000	19.50000	-4.0303	19.083	0.0	0.0	0.0
	10.00000	-1.00000	19.50000	-4.0797	19.083	0.0	0.0	0.0
	11.00000	-1.00000	19.50000	-4.1148	19.083	0.0	0.0	0.0
	12.00000	-1.00000	19.50000	-4.1375	19.083	0.0	0.0	0.0
	13.00000	-1.00000	19.50000	-4.1493	19.083	0.0	0.0	0.0
	14.00000	-1.00000	19.50000	-4.1511	19.083	0.0	0.0	0.0
	15.00000	-1.00000	19.50000	-4.1433	19.083	0.0	0.0	0.0
	16.00000	-1.00000	19.50000	-4.1258	19.083	0.0	0.0	0.0
	17.00000	-1.00000	19.50000	-4.0980	19.083	0.0	0.0	0.0
	18.00000	-1.00000	19.50000	-4.0579	19.083	0.0	0.0	0.0
	19.00000	-1.00000	19.50000	-4.0011	19.083	0.0	0.0	0.0
	20.00000	-1.00000	19.50000	-3.9229	19.083	0.0	0.0	0.0
	21.00000	-1.00000	19.50000	-3.8393	19.083	0.0	0.0	0.0
	22.00000	-1.00000	19.50000	-3.7658	19.083	0.0	0.0	0.0
	23.00000	-1.00000	19.50000	-3.6968	19.083	0.0	0.0	0.0
	24.00000	-1.00000	19.50000	-3.6267	19.083	0.0	0.0	0.0
	25.00000	-1.00000	19.50000	-3.5513	19.083	0.0	0.0	0.0
	26.00000	-1.00000	19.50000	-3.4668	19.083	0.0	0.0	0.0
	27.00000	-1.00000	19.50000	-3.3694	19.083	0.0	0.0	0.0
	28.00000	-1.00000	19.50000	-3.2540	19.083	0.0	0.0	0.0
	29.00000	-1.00000	19.50000	-3.1145	19.083	0.0	0.0	0.0
	30.00000	-1.00000	19.50000	-2.9428	19.083	0.0	0.0	0.0
	31.00000	-1.00000	19.50000	-2.7279	19.083	0.0	0.0	0.0
	32.00000	-1.00000	19.50000	-2.4549	19.083	0.0	0.0	0.0
	33.00000	-1.00000	19.50000	-2.1055	19.083	0.0	0.0	0.0
	34.00000	-1.00000	19.50000	-1.6779	19.083	0.0	0.0	0.0
	35.00000	-1.00000	19.50000	-1.2517	19.083	0.0	0.0	0.0
	36.00000	-1.00000	19.50000	-0.90613	19.083	0.0	0.0	0.0
	37.00000	-1.00000	19.50000	-0.63964	19.083	0.0	0.0	0.0
	38.00000	-1.00000	19.50000	-0.43394	19.083	0.0	0.0	0.0
	39.00000	-1.00000	19.50000	-0.27425	19.083	0.0	0.0	0.0
	40.00000	-1.00000	19.50000	-0.14980	19.083	0.0	0.0	0.0
	41.00000	-1.00000	19.50000	-0.052667	19.083	0.0	0.0	0.0
	42.00000	-1.00000	19.50000	0.023063	19.083	0.0	0.0	0.0
	43.00000	-1.00000	19.50000	0.081889	19.083	0.0	0.0	0.0
	44.00000	-1.00000	19.50000	0.12728	19.083	0.0	0.0	0.0
	45.00000	-1.00000	19.50000	0.16195	19.083	0.0	0.0	0.0
	46.00000	-1.00000	19.50000	0.18804	19.083	0.0	0.0	0.0
	47.00000	-1.00000	19.50000	0.20722	19.083	0.0	0.0	0.0
	48.00000	-1.00000	19.50000	0.22087	19.083	0.0	0.0	0.0
	49.00000	-1.00000	19.50000	0.23008	19.083	0.0	0.0	0.0
	50.00000	-1.00000	19.50000	0.23571	19.083	0.0	0.0	0.0
	51.00000	-1.00000	19.50000	0.23850	19.083	0.0	0.0	0.0
	52.00000	-1.00000	19.50000	0.23902	19.083	0.0	0.0	0.0
	53.00000	-1.00000	19.50000	0.23774	19.083	0.0	0.0	0.0
	54.00000	-1.00000	19.50000	0.23505	19.083	0.0	0.0	0.0
	55.00000	-1.00000	19.50000	0.23126	19.083	0.0	0.0	0.0
	-25.00000	0.00000	19.50000	0.20778	19.083	0.0	0.0	0.0
	-24.00000	0.00000	19.50000	0.21233	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-23.00000	0.00000	19.50000	0.21627	19.083	0.0	0.0
	-22.00000	0.00000	19.50000	0.21942	19.083	0.0	0.0
	-21.00000	0.00000	19.50000	0.22155	19.083	0.0	0.0
	-20.00000	0.00000	19.50000	0.22238	19.083	0.0	0.0
	-19.00000	0.00000	19.50000	0.22158	19.083	0.0	0.0
	-18.00000	0.00000	19.50000	0.21872	19.083	0.0	0.0
	-17.00000	0.00000	19.50000	0.21331	19.083	0.0	0.0
	-16.00000	0.00000	19.50000	0.20472	19.083	0.0	0.0
	-15.00000	0.00000	19.50000	0.19222	19.083	0.0	0.0
	-14.00000	0.00000	19.50000	0.17486	19.083	0.0	0.0
	-13.00000	0.00000	19.50000	0.15151	19.083	0.0	0.0
	-12.00000	0.00000	19.50000	0.12077	19.083	0.0	0.0
	-11.00000	0.00000	19.50000	0.080851	19.083	0.0	0.0
	-10.00000	0.00000	19.50000	0.029550	19.083	0.0	0.0
	-9.00000	0.00000	19.50000	-0.035954	19.083	0.0	0.0
	-8.00000	0.00000	19.50000	-0.11929	19.083	0.0	0.0
	-7.00000	0.00000	19.50000	-0.22519	19.083	0.0	0.0
	-6.00000	0.00000	19.50000	-0.36001	19.083	0.0	0.0
	-5.00000	0.00000	19.50000	-0.53253	19.083	0.0	0.0
	-4.00000	0.00000	19.50000	-0.75549	19.083	0.0	0.0
	-3.00000	0.00000	19.50000	-1.04888	19.083	0.0	0.0
	-2.00000	0.00000	19.50000	-1.4476	19.083	0.0	0.0
	-1.00000	0.00000	19.50000	-2.0305	19.083	0.0	0.0
	0.00000	0.00000	19.50000	-3.0789	19.083	0.0	0.0
	1.00000	0.00000	19.50000	-4.1271	19.083	0.0	0.0
	2.00000	0.00000	19.50000	-4.7093	19.083	0.0	0.0
	3.00000	0.00000	19.50000	-5.1068	19.083	0.0	0.0
	4.00000	0.00000	19.50000	-5.3982	19.083	0.0	0.0
	5.00000	0.00000	19.50000	-5.6185	19.083	0.0	0.0
	6.00000	0.00000	19.50000	-5.7876	19.083	0.0	0.0
	7.00000	0.00000	19.50000	-5.9179	19.083	0.0	0.0
	8.00000	0.00000	19.50000	-6.0180	19.083	0.0	0.0
	9.00000	0.00000	19.50000	-6.0940	19.083	0.0	0.0
	10.00000	0.00000	19.50000	-6.1503	19.083	0.0	0.0
	11.00000	0.00000	19.50000	-6.1902	19.083	0.0	0.0
	12.00000	0.00000	19.50000	-6.2159	19.083	0.0	0.0
	13.00000	0.00000	19.50000	-6.2291	19.083	0.0	0.0
	14.00000	0.00000	19.50000	-6.2308	19.083	0.0	0.0
	15.00000	0.00000	19.50000	-6.2214	19.083	0.0	0.0
	16.00000	0.00000	19.50000	-6.2006	19.083	0.0	0.0
	17.00000	0.00000	19.50000	-6.1666	19.083	0.0	0.0
	18.00000	0.00000	19.50000	-6.1149	19.083	0.0	0.0
	19.00000	0.00000	19.50000	-6.0290	19.083	0.0	0.0
	20.00000	0.00000	19.50000	-5.9603	19.083	0.0	0.0
	21.00000	0.00000	19.50000	-5.8855	19.083	0.0	0.0
	22.00000	0.00000	19.50000	-5.7807	19.083	0.0	0.0
	23.00000	0.00000	19.50000	-5.6965	19.083	0.0	0.0
	24.00000	0.00000	19.50000	-5.6147	19.083	0.0	0.0
	25.00000	0.00000	19.50000	-5.5280	19.083	0.0	0.0
	26.00000	0.00000	19.50000	-5.4311	19.083	0.0	0.0
	27.00000	0.00000	19.50000	-5.3188	19.083	0.0	0.0
	28.00000	0.00000	19.50000	-5.1844	19.083	0.0	0.0
	29.00000	0.00000	19.50000	-5.0196	19.083	0.0	0.0
	30.00000	0.00000	19.50000	-4.8122	19.083	0.0	0.0
	31.00000	0.00000	19.50000	-4.5443	19.083	0.0	0.0
	32.00000	0.00000	19.50000	-4.1852	19.083	0.0	0.0
	33.00000	0.00000	19.50000	-3.6726	19.083	0.0	0.0
	34.00000	0.00000	19.50000	-2.6731	19.083	0.0	0.0
	35.00000	0.00000	19.50000	-1.6749	19.083	0.0	0.0
	36.00000	0.00000	19.50000	-1.1665	19.083	0.0	0.0
	37.00000	0.00000	19.50000	-0.81444	19.083	0.0	0.0
	38.00000	0.00000	19.50000	-0.55657	19.083	0.0	0.0
	39.00000	0.00000	19.50000	-0.36241	19.083	0.0	0.0
	40.00000	0.00000	19.50000	-0.21409	19.083	0.0	0.0
	41.00000	0.00000	19.50000	-0.099902	19.083	0.0	0.0
	42.00000	0.00000	19.50000	-0.011731	19.083	0.0	0.0
	43.00000	0.00000	19.50000	0.056313	19.083	0.0	0.0
	44.00000	0.00000	19.50000	0.10861	19.083	0.0	0.0
	45.00000	0.00000	19.50000	0.14849	19.083	0.0	0.0
	46.00000	0.00000	19.50000	0.17852	19.083	0.0	0.0
	47.00000	0.00000	19.50000	0.20072	19.083	0.0	0.0
	48.00000	0.00000	19.50000	0.21666	19.083	0.0	0.0
	49.00000	0.00000	19.50000	0.22760	19.083	0.0	0.0
	50.00000	0.00000	19.50000	0.23455	19.083	0.0	0.0
	51.00000	0.00000	19.50000	0.23833	19.083	0.0	0.0
	52.00000	0.00000	19.50000	0.23958	19.083	0.0	0.0
	53.00000	0.00000	19.50000	0.23885	19.083	0.0	0.0
	54.00000	0.00000	19.50000	0.23655	19.083	0.0	0.0
	55.00000	0.00000	19.50000	0.23304	19.083	0.0	0.0
	-25.00000	1.00000	19.50000	0.20938	19.083	0.0	0.0
	-24.00000	1.00000	19.50000	0.21382	19.083	0.0	0.0
	-23.00000	1.00000	19.50000	0.21760	19.083	0.0	0.0
	-22.00000	1.00000	19.50000	0.22051	19.083	0.0	0.0
	-21.00000	1.00000	19.50000	0.22232	19.083	0.0	0.0
	-20.00000	1.00000	19.50000	0.22270	19.083	0.0	0.0
	-19.00000	1.00000	19.50000	0.22130	19.083	0.0	0.0
	-18.00000	1.00000	19.50000	0.21766	19.083	0.0	0.0
	-17.00000	1.00000	19.50000	0.21122	19.083	0.0	0.0
	-16.00000	1.00000	19.50000	0.20131	19.083	0.0	0.0
	-15.00000	1.00000	19.50000	0.18707	19.083	0.0	0.0
	-14.00000	1.00000	19.50000	0.16749	19.083	0.0	0.0
	-13.00000	1.00000	19.50000	0.14128	19.083	0.0	0.0
	-12.00000	1.00000	19.50000	0.10682	19.083	0.0	0.0
	-11.00000	1.00000	19.50000	0.062103	19.083	0.0	0.0
	-10.00000	1.00000	19.50000	0.0045622	19.083	0.0	0.0
	-9.00000	1.00000	19.50000	-0.069102	19.083	0.0	0.0
	-8.00000	1.00000	19.50000	-0.16320	19.083	0.0	0.0
	-7.00000	1.00000	19.50000	-0.28346	19.083	0.0	0.0
	-6.00000	1.00000	19.50000	-0.43775	19.083	0.0	0.0
	-5.00000	1.00000	19.50000	-0.63728	19.083	0.0	0.0
	-4.00000	1.00000	19.50000	-0.89895	19.083	0.0	0.0
	-3.00000	1.00000	19.50000	-1.2507	19.083	0.0	0.0
	-2.00000	1.00000	19.50000	-1.7462	19.083	0.0	0.0
	-1.00000	1.00000	19.50000	-2.5200	19.083	0.0	0.0
	0.00000	1.00000	19.50000	-4.1290	19.083	0.0	0.0
	1.00000	1.00000	19.50000	-5.7177	19.083	0.0	0.0
	2.00000	1.00000	19.50000	-6.5107	19.083	0.0	0.0
	3.00000	1.00000	19.50000	-7.0047	19.083	0.0	0.0
	4.00000	1.00000	19.50000	-7.3543	19.083	0.0	0.0
	5.00000	1.00000	19.50000	-7.6130	19.083	0.0	0.0
	6.00000	1.00000	19.50000	-7.8085	19.083	0.0	0.0
	7.00000	1.00000	19.50000	-7.9577	19.083	0.0	0.0
	8.00000	1.00000	19.50000	-8.0715	19.083	0.0	0.0
	9.00000	1.00000	19.50000	-8.1573	19.083	0.0	0.0
	10.00000	1.00000	19.50000	-8.2206	19.083	0.0	0.0
	11.00000	1.00000	19.50000	-8.2653	19.083	0.0	0.0
	12.00000	1.00000	19.50000	-8.2940	19.083	0.0	0.0
	13.00000	1.00000	19.50000	-8.3086	19.083	0.0	0.0
	14.00000	1.00000	19.50000	-8.3102	19.083	0.0	0.0
	15.00000	1.00000	19.50000	-8.2992	19.083	0.0	0.0
	16.00000	1.00000	19.50000	-8.2749	19.083	0.0	0.0
	17.00000	1.00000	19.50000	-8.2349	19.083	0.0	0.0
	18.00000	1.00000	19.50000	-8.1717	19.083	0.0	0.0
	19.00000	1.00000	19.50000	-8.0566	19.083	0.0	0.0
	20.00000	1.00000	19.50000	-7.9974	19.083	0.0	0.0
	21.00000	1.00000	19.50000	-7.9314	19.083	0.0	0.0
	22.00000	1.00000	19.50000	-7.7953	19.083	0.0	0.0
	23.00000	1.00000	19.50000	-7.6959	19.083	0.0	0.0
	24.00000	1.00000	19.50000	-7.6025	19.083	0.0	0.0
	25.00000	1.00000	19.50000	-7.5043	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
26.00000	1.00000	19.50000	-7.3952	19.083	0.0	0.0	0.0
27.00000	1.00000	19.50000	-7.2680	19.083	0.0	0.0	0.0
28.00000	1.00000	19.50000	-7.1147	19.083	0.0	0.0	0.0
29.00000	1.00000	19.50000	-6.9245	19.083	0.0	0.0	0.0
30.00000	1.00000	19.50000	-6.6816	19.083	0.0	0.0	0.0
31.00000	1.00000	19.50000	-6.3607	19.083	0.0	0.0	0.0
32.00000	1.00000	19.50000	-5.9155	19.083	0.0	0.0	0.0
33.00000	1.00000	19.50000	-5.2398	19.083	0.0	0.0	0.0
34.00000	1.00000	19.50000	-3.6682	19.083	0.0	0.0	0.0
35.00000	1.00000	19.50000	-2.0981	19.083	0.0	0.0	0.0
36.00000	1.00000	19.50000	-1.4269	19.083	0.0	0.0	0.0
37.00000	1.00000	19.50000	-0.98932	19.083	0.0	0.0	0.0
38.00000	1.00000	19.50000	-0.67928	19.083	0.0	0.0	0.0
39.00000	1.00000	19.50000	-0.45068	19.083	0.0	0.0	0.0
40.00000	1.00000	19.50000	-0.27850	19.083	0.0	0.0	0.0
41.00000	1.00000	19.50000	-0.14728	19.083	0.0	0.0	0.0
42.00000	1.00000	19.50000	-0.046676	19.083	0.0	0.0	0.0
43.00000	1.00000	19.50000	0.030574	19.083	0.0	0.0	0.0
44.00000	1.00000	19.50000	0.089765	19.083	0.0	0.0	0.0
45.00000	1.00000	19.50000	0.13485	19.083	0.0	0.0	0.0
46.00000	1.00000	19.50000	0.16883	19.083	0.0	0.0	0.0
47.00000	1.00000	19.50000	0.19402	19.083	0.0	0.0	0.0
48.00000	1.00000	19.50000	0.21225	19.083	0.0	0.0	0.0
49.00000	1.00000	19.50000	0.22493	19.083	0.0	0.0	0.0
50.00000	1.00000	19.50000	0.23320	19.083	0.0	0.0	0.0
51.00000	1.00000	19.50000	0.23797	19.083	0.0	0.0	0.0
52.00000	1.00000	19.50000	0.23997	19.083	0.0	0.0	0.0
53.00000	1.00000	19.50000	0.23978	19.083	0.0	0.0	0.0
54.00000	1.00000	19.50000	0.23787	19.083	0.0	0.0	0.0
55.00000	1.00000	19.50000	0.23464	19.083	0.0	0.0	0.0
-25.00000	2.00000	19.50000	0.21084	19.083	0.0	0.0	0.0
-24.00000	2.00000	19.50000	0.21517	19.083	0.0	0.0	0.0
-23.00000	2.00000	19.50000	0.21878	19.083	0.0	0.0	0.0
-22.00000	2.00000	19.50000	0.22146	19.083	0.0	0.0	0.0
-21.00000	2.00000	19.50000	0.22294	19.083	0.0	0.0	0.0
-20.00000	2.00000	19.50000	0.22289	19.083	0.0	0.0	0.0
-19.00000	2.00000	19.50000	0.22090	19.083	0.0	0.0	0.0
-18.00000	2.00000	19.50000	0.21649	19.083	0.0	0.0	0.0
-17.00000	2.00000	19.50000	0.20904	19.083	0.0	0.0	0.0
-16.00000	2.00000	19.50000	0.19782	19.083	0.0	0.0	0.0
-15.00000	2.00000	19.50000	0.18190	19.083	0.0	0.0	0.0
-14.00000	2.00000	19.50000	0.16014	19.083	0.0	0.0	0.0
-13.00000	2.00000	19.50000	0.13112	19.083	0.0	0.0	0.0
-12.00000	2.00000	19.50000	0.093043	19.083	0.0	0.0	0.0
-11.00000	2.00000	19.50000	0.043650	19.083	0.0	0.0	0.0
-10.00000	2.00000	19.50000	-0.019056	19.083	0.0	0.0	0.0
-9.00000	2.00000	19.50000	-0.10153	19.083	0.0	0.0	0.0
-8.00000	2.00000	19.50000	-0.20601	19.083	0.0	0.0	0.0
-7.00000	2.00000	19.50000	-0.34006	19.083	0.0	0.0	0.0
-6.00000	2.00000	19.50000	-0.51289	19.083	0.0	0.0	0.0
-5.00000	2.00000	19.50000	-0.73780	19.083	0.0	0.0	0.0
-4.00000	2.00000	19.50000	-1.0351	19.083	0.0	0.0	0.0
-3.00000	2.00000	19.50000	-1.4387	19.083	0.0	0.0	0.0
-2.00000	2.00000	19.50000	-2.0131	19.083	0.0	0.0	0.0
-1.00000	2.00000	19.50000	-2.9133	19.083	0.0	0.0	0.0
0.00000	2.00000	19.50000	-4.71131	19.083	0.0	0.0	0.0
1.00000	2.00000	19.50000	-6.5127	19.083	0.0	0.0	0.0
2.00000	2.00000	19.50000	-7.4119	19.083	0.0	0.0	0.0
3.00000	2.00000	19.50000	-7.9847	19.083	0.0	0.0	0.0
4.00000	2.00000	19.50000	-8.3859	19.083	0.0	0.0	0.0
5.00000	2.00000	19.50000	-8.6798	19.083	0.0	0.0	0.0
6.00000	2.00000	19.50000	-8.9003	19.083	0.0	0.0	0.0
7.00000	2.00000	19.50000	-9.0675	19.083	0.0	0.0	0.0
8.00000	2.00000	19.50000	-9.1943	19.083	0.0	0.0	0.0
9.00000	2.00000	19.50000	-9.2896	19.083	0.0	0.0	0.0
10.00000	2.00000	19.50000	-9.3597	19.083	0.0	0.0	0.0
11.00000	2.00000	19.50000	-9.4090	19.083	0.0	0.0	0.0
12.00000	2.00000	19.50000	-9.4405	19.083	0.0	0.0	0.0
13.00000	2.00000	19.50000	-9.4565	19.083	0.0	0.0	0.0
14.00000	2.00000	19.50000	-9.4581	19.083	0.0	0.0	0.0
15.00000	2.00000	19.50000	-9.4457	19.083	0.0	0.0	0.0
16.00000	2.00000	19.50000	-9.4183	19.083	0.0	0.0	0.0
17.00000	2.00000	19.50000	-9.3729	19.083	0.0	0.0	0.0
18.00000	2.00000	19.50000	-9.3005	19.083	0.0	0.0	0.0
19.00000	2.00000	19.50000	-9.1688	19.083	0.0	0.0	0.0
20.00000	2.00000	19.50000	-9.0799	19.083	0.0	0.0	0.0
21.00000	2.00000	19.50000	-8.9835	19.083	0.0	0.0	0.0
22.00000	2.00000	19.50000	-8.8287	19.083	0.0	0.0	0.0
23.00000	2.00000	19.50000	-8.7166	19.083	0.0	0.0	0.0
24.00000	2.00000	19.50000	-8.6124	19.083	0.0	0.0	0.0
25.00000	2.00000	19.50000	-8.5037	19.083	0.0	0.0	0.0
26.00000	2.00000	19.50000	-8.3825	19.083	0.0	0.0	0.0
27.00000	2.00000	19.50000	-8.2410	19.083	0.0	0.0	0.0
28.00000	2.00000	19.50000	-8.0697	19.083	0.0	0.0	0.0
29.00000	2.00000	19.50000	-7.8556	19.083	0.0	0.0	0.0
30.00000	2.00000	19.50000	-7.55800	19.083	0.0	0.0	0.0
31.00000	2.00000	19.50000	-7.2120	19.083	0.0	0.0	0.0
32.00000	2.00000	19.50000	-6.6960	19.083	0.0	0.0	0.0
33.00000	2.00000	19.50000	-5.9092	19.083	0.0	0.0	0.0
34.00000	2.00000	19.50000	-4.1746	19.083	0.0	0.0	0.0
35.00000	2.00000	19.50000	-2.4417	19.083	0.0	0.0	0.0
36.00000	2.00000	19.50000	-1.6597	19.083	0.0	0.0	0.0
37.00000	2.00000	19.50000	-1.1519	19.083	0.0	0.0	0.0
38.00000	2.00000	19.50000	-0.79560	19.083	0.0	0.0	0.0
39.00000	2.00000	19.50000	-0.53531	19.083	0.0	0.0	0.0
40.00000	2.00000	19.50000	-0.34073	19.083	0.0	0.0	0.0
41.00000	2.00000	19.50000	-0.19330	19.083	0.0	0.0	0.0
42.00000	2.00000	19.50000	-0.080780	19.083	0.0	0.0	0.0
43.00000	2.00000	19.50000	0.0053503	19.083	0.0	0.0	0.0
44.00000	2.00000	19.50000	0.071220	19.083	0.0	0.0	0.0
45.00000	2.00000	19.50000	0.12136	19.083	0.0	0.0	0.0
46.00000	2.00000	19.50000	0.15918	19.083	0.0	0.0	0.0
47.00000	2.00000	19.50000	0.18731	19.083	0.0	0.0	0.0
48.00000	2.00000	19.50000	0.20777	19.083	0.0	0.0	0.0
49.00000	2.00000	19.50000	0.22216	19.083	0.0	0.0	0.0
50.00000	2.00000	19.50000	0.23172	19.083	0.0	0.0	0.0
51.00000	2.00000	19.50000	0.23747	19.083	0.0	0.0	0.0
52.00000	2.00000	19.50000	0.24020	19.083	0.0	0.0	0.0
53.00000	2.00000	19.50000	0.24055	19.083	0.0	0.0	0.0
54.00000	2.00000	19.50000	0.23903	19.083	0.0	0.0	0.0
55.00000	2.00000	19.50000	0.23608	19.083	0.0	0.0	0.0
-25.00000	3.00000	19.50000	0.21216	19.083	0.0	0.0	0.0
-24.00000	3.00000	19.50000	0.21638	19.083	0.0	0.0	0.0
-23.00000	3.00000	19.50000	0.21984	19.083	0.0	0.0	0.0
-22.00000	3.00000	19.50000	0.22229	19.083	0.0	0.0	0.0
-21.00000	3.00000	19.50000	0.22345	19.083	0.0	0.0	0.0
-20.00000	3.00000	19.50000	0.22297	19.083	0.0	0.0	0.0
-19.00000	3.00000	19.50000	0.22041	19.083	0.0	0.0	0.0
-18.00000	3.00000	19.50000	0.21525	19.083	0.0	0.0	0.0
-17.00000	3.00000	19.50000	0.20684	19.083	0.0	0.0	0.0
-16.00000	3.00000	19.50000	0.19436	19.083	0.0	0.0	0.0
-15.00000	3.00000	19.50000	0.17681	19.083	0.0	0.0	0.0
-14.00000	3.00000	19.50000	0.15296	19.083	0.0	0.0	0.0
-13.00000	3.00000	19.50000	0.12125	19.083	0.0	0.0	0.0
-12.00000	3.00000	19.50000	0.079723	19.083	0.0	0.0	0.0
-11.00000	3.00000	19.50000	0.025880	19.083	0.0	0.0	0.0
-10.00000	3.00000	19.50000	-0.043471	19.083	0.0	0.0	0.0
-9.00000	3.00000	19.50000	-0.13249	19.083	0.0	0.0	0.0
-8.00000	3.00000	19.50000	-0.24668	19.083	0.0	0.0	0.0
-7.00000	3.00000	19.50000	-0.39348	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-6.00000	3.00000	19.50000	-0.58319	19.083	0.0	0.0
	-5.00000	3.00000	19.50000	-0.83071	19.083	0.0	0.0
	-4.00000	3.00000	19.50000	-1.1587	19.083	0.0	0.0
	-3.00000	3.00000	19.50000	-1.6045	19.083	0.0	0.0
	-2.00000	3.00000	19.50000	-2.2373	19.083	0.0	0.0
	-1.00000	3.00000	19.50000	-3.2164	19.083	0.0	0.0
	0.00000	3.00000	19.50000	-5.1127	19.083	0.0	0.0
	1.00000	3.00000	19.50000	-7.0087	19.083	0.0	0.0
	2.00000	3.00000	19.50000	-7.9867	19.083	0.0	0.0
	3.00000	3.00000	19.50000	-8.6177	19.083	0.0	0.0
	4.00000	3.00000	19.50000	-9.0608	19.083	0.0	0.0
	5.00000	3.00000	19.50000	-9.3851	19.083	0.0	0.0
	6.00000	3.00000	19.50000	-9.6278	19.083	0.0	0.0
	7.00000	3.00000	19.50000	-9.8113	19.083	0.0	0.0
	8.00000	3.00000	19.50000	-9.9501	19.083	0.0	0.0
	9.00000	3.00000	19.50000	-10.054	19.083	0.0	0.0
	10.00000	3.00000	19.50000	-10.131	19.083	0.0	0.0
	11.00000	3.00000	19.50000	-10.184	19.083	0.0	0.0
	12.00000	3.00000	19.50000	-10.219	19.083	0.0	0.0
	13.00000	3.00000	19.50000	-10.236	19.083	0.0	0.0
	14.00000	3.00000	19.50000	-10.238	19.083	0.0	0.0
	15.00000	3.00000	19.50000	-10.224	19.083	0.0	0.0
	16.00000	3.00000	19.50000	-10.194	19.083	0.0	0.0
	17.00000	3.00000	19.50000	-10.144	19.083	0.0	0.0
	18.00000	3.00000	19.50000	-10.065	19.083	0.0	0.0
	19.00000	3.00000	19.50000	-9.9238	19.083	0.0	0.0
	20.00000	3.00000	19.50000	-9.8224	19.083	0.0	0.0
	21.00000	3.00000	19.50000	-9.7128	19.083	0.0	0.0
	22.00000	3.00000	19.50000	-9.5464	19.083	0.0	0.0
	23.00000	3.00000	19.50000	-9.4243	19.083	0.0	0.0
	24.00000	3.00000	19.50000	-9.3106	19.083	0.0	0.0
	25.00000	3.00000	19.50000	-9.1921	19.083	0.0	0.0
	26.00000	3.00000	19.50000	-9.0599	19.083	0.0	0.0
	27.00000	3.00000	19.50000	-8.9052	19.083	0.0	0.0
	28.00000	3.00000	19.50000	-8.7174	19.083	0.0	0.0
	29.00000	3.00000	19.50000	-8.4821	19.083	0.0	0.0
	30.00000	3.00000	19.50000	-8.1782	19.083	0.0	0.0
	31.00000	3.00000	19.50000	-7.7718	19.083	0.0	0.0
	32.00000	3.00000	19.50000	-7.2032	19.083	0.0	0.0
	33.00000	3.00000	19.50000	-6.3458	19.083	0.0	0.0
	34.00000	3.00000	19.50000	-4.5225	19.083	0.0	0.0
	35.00000	3.00000	19.50000	-2.7070	19.083	0.0	0.0
	36.00000	3.00000	19.50000	-1.8547	19.083	0.0	0.0
	37.00000	3.00000	19.50000	-1.2948	19.083	0.0	0.0
	38.00000	3.00000	19.50000	-0.90085	19.083	0.0	0.0
	39.00000	3.00000	19.50000	-0.61332	19.083	0.0	0.0
	40.00000	3.00000	19.50000	-0.39882	19.083	0.0	0.0
	41.00000	3.00000	19.50000	-0.23667	19.083	0.0	0.0
	42.00000	3.00000	19.50000	-0.11315	19.083	0.0	0.0
	43.00000	3.00000	19.50000	-0.018736	19.083	0.0	0.0
	44.00000	3.00000	19.50000	0.003815	19.083	0.0	0.0
	45.00000	3.00000	19.50000	0.10834	19.083	0.0	0.0
	46.00000	3.00000	19.50000	0.14982	19.083	0.0	0.0
	47.00000	3.00000	19.50000	0.18075	19.083	0.0	0.0
	48.00000	3.00000	19.50000	0.20335	19.083	0.0	0.0
	49.00000	3.00000	19.50000	0.21297	19.083	0.0	0.0
	50.00000	3.00000	19.50000	0.23018	19.083	0.0	0.0
	51.00000	3.00000	19.50000	0.23687	19.083	0.0	0.0
	52.00000	3.00000	19.50000	0.24030	19.083	0.0	0.0
	53.00000	3.00000	19.50000	0.24118	19.083	0.0	0.0
	54.00000	3.00000	19.50000	0.24005	19.083	0.0	0.0
	55.00000	3.00000	19.50000	0.23736	19.083	0.0	0.0
	-25.00000	4.00000	19.50000	0.21335	19.083	0.0	0.0
	-24.00000	4.00000	19.50000	0.21747	19.083	0.0	0.0
	-23.00000	4.00000	19.50000	0.22076	19.083	0.0	0.0
	-22.00000	4.00000	19.50000	0.22299	19.083	0.0	0.0
	-21.00000	4.00000	19.50000	0.22385	19.083	0.0	0.0
	-20.00000	4.00000	19.50000	0.22296	19.083	0.0	0.0
	-19.00000	4.00000	19.50000	0.21987	19.083	0.0	0.0
	-18.00000	4.00000	19.50000	0.21400	19.083	0.0	0.0
	-17.00000	4.00000	19.50000	0.20467	19.083	0.0	0.0
	-16.00000	4.00000	19.50000	0.19099	19.083	0.0	0.0
	-15.00000	4.00000	19.50000	0.17192	19.083	0.0	0.0
	-14.00000	4.00000	19.50000	0.14610	19.083	0.0	0.0
	-13.00000	4.00000	19.50000	0.11187	19.083	0.0	0.0
	-12.00000	4.00000	19.50000	0.0671116	19.083	0.0	0.0
	-11.00000	4.00000	19.50000	0.0091383	19.083	0.0	0.0
	-10.00000	4.00000	19.50000	-0.065520	19.083	0.0	0.0
	-9.00000	4.00000	19.50000	-0.16137	19.083	0.0	0.0
	-8.00000	4.00000	19.50000	-0.28436	19.083	0.0	0.0
	-7.00000	4.00000	19.50000	-0.44255	19.083	0.0	0.0
	-6.00000	4.00000	19.50000	-0.64707	19.083	0.0	0.0
	-5.00000	4.00000	19.50000	-0.91392	19.083	0.0	0.0
	-4.00000	4.00000	19.50000	-1.2672	19.083	0.0	0.0
	-3.00000	4.00000	19.50000	-1.7458	19.083	0.0	0.0
	-2.00000	4.00000	19.50000	-2.42077	19.083	0.0	0.0
	-1.00000	4.00000	19.50000	-3.4515	19.083	0.0	0.0
	0.00000	4.00000	19.50000	-5.4061	19.083	0.0	0.0
	1.00000	4.00000	19.50000	-7.3602	19.083	0.0	0.0
	2.00000	4.00000	19.50000	-8.3899	19.083	0.0	0.0
	3.00000	4.00000	19.50000	-9.0628	19.083	0.0	0.0
	4.00000	4.00000	19.50000	-9.5385	19.083	0.0	0.0
	5.00000	4.00000	19.50000	-9.8878	19.083	0.0	0.0
	6.00000	4.00000	19.50000	-10.149	19.083	0.0	0.0
	7.00000	4.00000	19.50000	-10.347	19.083	0.0	0.0
	8.00000	4.00000	19.50000	-10.4977	19.083	0.0	0.0
	9.00000	4.00000	19.50000	-10.609	19.083	0.0	0.0
	10.00000	4.00000	19.50000	-10.691	19.083	0.0	0.0
	11.00000	4.00000	19.50000	-10.749	19.083	0.0	0.0
	12.00000	4.00000	19.50000	-10.786	19.083	0.0	0.0
	13.00000	4.00000	19.50000	-10.804	19.083	0.0	0.0
	14.00000	4.00000	19.50000	-10.806	19.083	0.0	0.0
	15.00000	4.00000	19.50000	-10.791	19.083	0.0	0.0
	16.00000	4.00000	19.50000	-10.759	19.083	0.0	0.0
	17.00000	4.00000	19.50000	-10.706	19.083	0.0	0.0
	18.00000	4.00000	19.50000	-10.622	19.083	0.0	0.0
	19.00000	4.00000	19.50000	-10.474	19.083	0.0	0.0
	20.00000	4.00000	19.50000	-10.365	19.083	0.0	0.0
	21.00000	4.00000	19.50000	-10.248	19.083	0.0	0.0
	22.00000	4.00000	19.50000	-10.073	19.083	0.0	0.0
	23.00000	4.00000	19.50000	-9.9429	19.083	0.0	0.0
	24.00000	4.00000	19.50000	-9.8211	19.083	0.0	0.0
	25.00000	4.00000	19.50000	-9.6939	19.083	0.0	0.0
	26.00000	4.00000	19.50000	-9.5517	19.083	0.0	0.0
	27.00000	4.00000	19.50000	-9.3853	19.083	0.0	0.0
	28.00000	4.00000	19.50000	-9.1831	19.083	0.0	0.0
	29.00000	4.00000	19.50000	-8.9296	19.083	0.0	0.0
	30.00000	4.00000	19.50000	-8.6024	19.083	0.0	0.0
	31.00000	4.00000	19.50000	-8.1661	19.083	0.0	0.0
	32.00000	4.00000	19.50000	-7.5593	19.083	0.0	0.0
	33.00000	4.00000	19.50000	-6.6553	19.083	0.0	0.0
	34.00000	4.00000	19.50000	-4.7828	19.083	0.0	0.0
	35.00000	4.00000	19.50000	-2.9120	19.083	0.0	0.0
	36.00000	4.00000	19.50000	-2.0135	19.083	0.0	0.0
	37.00000	4.00000	19.50000	-1.4160	19.083	0.0	0.0
	38.00000	4.00000	19.50000	-0.9276	19.083	0.0	0.0
	39.00000	4.00000	19.50000	-0.68289	19.083	0.0	0.0
	40.00000	4.00000	19.50000	-0.45144	19.083	0.0	0.0
	41.00000	4.00000	19.50000	-0.27641	19.083	0.0	0.0
	42.00000	4.00000	19.50000	-0.14308	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	43.00000	4.00000	19.50000	-0.041167	19.083	0.0	0.0
	44.00000	4.00000	19.50000	0.036728	19.083	0.0	0.0
	45.00000	4.00000	19.50000	0.096065	19.083	0.0	0.0
	46.00000	4.00000	19.50000	0.14094	19.083	0.0	0.0
	47.00000	4.00000	19.50000	0.17448	19.083	0.0	0.0
	48.00000	4.00000	19.50000	0.19909	19.083	0.0	0.0
	49.00000	4.00000	19.50000	0.21664	19.083	0.0	0.0
	50.00000	4.00000	19.50000	0.22863	19.083	0.0	0.0
	51.00000	4.00000	19.50000	0.23621	19.083	0.0	0.0
	52.00000	4.00000	19.50000	0.24031	19.083	0.0	0.0
	53.00000	4.00000	19.50000	0.24169	19.083	0.0	0.0
	54.00000	4.00000	19.50000	0.24092	19.083	0.0	0.0
	55.00000	4.00000	19.50000	0.23850	19.083	0.0	0.0
	-25.00000	5.00000	19.50000	0.21441	19.083	0.0	0.0
	-24.00000	5.00000	19.50000	0.21842	19.083	0.0	0.0
	-23.00000	5.00000	19.50000	0.22157	19.083	0.0	0.0
	-22.00000	5.00000	19.50000	0.22359	19.083	0.0	0.0
	-21.00000	5.00000	19.50000	0.22417	19.083	0.0	0.0
	-20.00000	5.00000	19.50000	0.22290	19.083	0.0	0.0
	-19.00000	5.00000	19.50000	0.21930	19.083	0.0	0.0
	-18.00000	5.00000	19.50000	0.21277	19.083	0.0	0.0
	-17.00000	5.00000	19.50000	0.20258	19.083	0.0	0.0
	-16.00000	5.00000	19.50000	0.18781	19.083	0.0	0.0
	-15.00000	5.00000	19.50000	0.16732	19.083	0.0	0.0
	-14.00000	5.00000	19.50000	0.13969	19.083	0.0	0.0
	-13.00000	5.00000	19.50000	0.10315	19.083	0.0	0.0
	-12.00000	5.00000	19.50000	0.055443	19.083	0.0	0.0
	-11.00000	5.00000	19.50000	-0.0062899	19.083	0.0	0.0
	-10.00000	5.00000	19.50000	-0.085731	19.083	0.0	0.0
	-9.00000	5.00000	19.50000	-0.18767	19.083	0.0	0.0
	-8.00000	5.00000	19.50000	-0.31843	19.083	0.0	0.0
	-7.00000	5.00000	19.50000	-0.48651	19.083	0.0	0.0
	-6.00000	5.00000	19.50000	-0.70365	19.083	0.0	0.0
	-5.00000	5.00000	19.50000	-0.98651	19.083	0.0	0.0
	-4.00000	5.00000	19.50000	-1.3600	19.083	0.0	0.0
	-3.00000	5.00000	19.50000	-1.8638	19.083	0.0	0.0
	-2.00000	5.00000	19.50000	-2.5692	19.083	0.0	0.0
	-1.00000	5.00000	19.50000	-3.6353	19.083	0.0	0.0
	0.00000	5.00000	19.50000	-5.6283	19.083	0.0	0.0
	1.00000	5.00000	19.50000	-7.6208	19.083	0.0	0.0
	2.00000	5.00000	19.50000	-8.6857	19.083	0.0	0.0
	3.00000	5.00000	19.50000	-9.3890	19.083	0.0	0.0
	4.00000	5.00000	19.50000	-9.8897	19.083	0.0	0.0
	5.00000	5.00000	19.50000	-10.259	19.083	0.0	0.0
	6.00000	5.00000	19.50000	-10.536	19.083	0.0	0.0
	7.00000	5.00000	19.50000	-10.746	19.083	0.0	0.0
	8.00000	5.00000	19.50000	-10.905	19.083	0.0	0.0
	9.00000	5.00000	19.50000	-11.024	19.083	0.0	0.0
	10.00000	5.00000	19.50000	-11.111	19.083	0.0	0.0
	11.00000	5.00000	19.50000	-11.173	19.083	0.0	0.0
	12.00000	5.00000	19.50000	-11.212	19.083	0.0	0.0
	13.00000	5.00000	19.50000	-11.232	19.083	0.0	0.0
	14.00000	5.00000	19.50000	-11.234	19.083	0.0	0.0
	15.00000	5.00000	19.50000	-11.218	19.083	0.0	0.0
	16.00000	5.00000	19.50000	-11.184	19.083	0.0	0.0
	17.00000	5.00000	19.50000	-11.129	19.083	0.0	0.0
	18.00000	5.00000	19.50000	-11.041	19.083	0.0	0.0
	19.00000	5.00000	19.50000	-10.889	19.083	0.0	0.0
	20.00000	5.00000	19.50000	-10.774	19.083	0.0	0.0
	21.00000	5.00000	19.50000	-10.651	19.083	0.0	0.0
	22.00000	5.00000	19.50000	-10.470	19.083	0.0	0.0
	23.00000	5.00000	19.50000	-10.333	19.083	0.0	0.0
	24.00000	5.00000	19.50000	-10.204	19.083	0.0	0.0
	25.00000	5.00000	19.50000	-10.070	19.083	0.0	0.0
	26.00000	5.00000	19.50000	-9.9187	19.083	0.0	0.0
	27.00000	5.00000	19.50000	-9.7421	19.083	0.0	0.0
	28.00000	5.00000	19.50000	-9.5276	19.083	0.0	0.0
	29.00000	5.00000	19.50000	-9.2591	19.083	0.0	0.0
	30.00000	5.00000	19.50000	-8.9132	19.083	0.0	0.0
	31.00000	5.00000	19.50000	-8.4539	19.083	0.0	0.0
	32.00000	5.00000	19.50000	-7.8195	19.083	0.0	0.0
	33.00000	5.00000	19.50000	-6.8836	19.083	0.0	0.0
	34.00000	5.00000	19.50000	-4.9765	19.083	0.0	0.0
	35.00000	5.00000	19.50000	-3.0713	19.083	0.0	0.0
	36.00000	5.00000	19.50000	-2.1412	19.083	0.0	0.0
	37.00000	5.00000	19.50000	-1.5164	19.083	0.0	0.0
	38.00000	5.00000	19.50000	-1.0709	19.083	0.0	0.0
	39.00000	5.00000	19.50000	-0.74328	19.083	0.0	0.0
	40.00000	5.00000	19.50000	-0.49783	19.083	0.0	0.0
	41.00000	5.00000	19.50000	-0.31188	19.083	0.0	0.0
	42.00000	5.00000	19.50000	-0.17006	19.083	0.0	0.0
	43.00000	5.00000	19.50000	-0.061553	19.083	0.0	0.0
	44.00000	5.00000	19.50000	0.021457	19.083	0.0	0.0
	45.00000	5.00000	19.50000	0.084762	19.083	0.0	0.0
	46.00000	5.00000	19.50000	0.13271	19.083	0.0	0.0
	47.00000	5.00000	19.50000	0.16863	19.083	0.0	0.0
	48.00000	5.00000	19.50000	0.19508	19.083	0.0	0.0
	49.00000	5.00000	19.50000	0.21405	19.083	0.0	0.0
	50.00000	5.00000	19.50000	0.22712	19.083	0.0	0.0
	51.00000	5.00000	19.50000	0.23553	19.083	0.0	0.0
	52.00000	5.00000	19.50000	0.24026	19.083	0.0	0.0
	53.00000	5.00000	19.50000	0.24210	19.083	0.0	0.0
	54.00000	5.00000	19.50000	0.24167	19.083	0.0	0.0
	55.00000	5.00000	19.50000	0.23949	19.083	0.0	0.0
	-25.00000	6.00000	19.50000	0.21533	19.083	0.0	0.0
	-24.00000	6.00000	19.50000	0.21926	19.083	0.0	0.0
	-23.00000	6.00000	19.50000	0.22227	19.083	0.0	0.0
	-22.00000	6.00000	19.50000	0.22410	19.083	0.0	0.0
	-21.00000	6.00000	19.50000	0.22441	19.083	0.0	0.0
	-20.00000	6.00000	19.50000	0.22279	19.083	0.0	0.0
	-19.00000	6.00000	19.50000	0.21873	19.083	0.0	0.0
	-18.00000	6.00000	19.50000	0.21161	19.083	0.0	0.0
	-17.00000	6.00000	19.50000	0.20064	19.083	0.0	0.0
	-16.00000	6.00000	19.50000	0.18486	19.083	0.0	0.0
	-15.00000	6.00000	19.50000	0.16309	19.083	0.0	0.0
	-14.00000	6.00000	19.50000	0.13383	19.083	0.0	0.0
	-13.00000	6.00000	19.50000	0.095217	19.083	0.0	0.0
	-12.00000	6.00000	19.50000	0.044880	19.083	0.0	0.0
	-11.00000	6.00000	19.50000	-0.020182	19.083	0.0	0.0
	-10.00000	6.00000	19.50000	-0.10383	19.083	0.0	0.0
	-9.00000	6.00000	19.50000	-0.21107	19.083	0.0	0.0
	-8.00000	6.00000	19.50000	-0.34851	19.083	0.0	0.0
	-7.00000	6.00000	19.50000	-0.52498	19.083	0.0	0.0
	-6.00000	6.00000	19.50000	-0.75258	19.083	0.0	0.0
	-5.00000	6.00000	19.50000	-1.0484	19.083	0.0	0.0
	-4.00000	6.00000	19.50000	-1.4378	19.083	0.0	0.0
	-3.00000	6.00000	19.50000	-1.9607	19.083	0.0	0.0
	-2.00000	6.00000	19.50000	-2.6884	19.083	0.0	0.0
	-1.00000	6.00000	19.50000	-3.7795	19.083	0.0	0.0
	0.00000	6.00000	19.50000	-5.7990	19.083	0.0	0.0
	1.00000	6.00000	19.50000	-7.8181	19.083	0.0	0.0
	2.00000	6.00000	19.50000	-8.9079	19.083	0.0	0.0
	3.00000	6.00000	19.50000	-9.6333	19.083	0.0	0.0
	4.00000	6.00000	19.50000	-10.153	19.083	0.0	0.0
	5.00000	6.00000	19.50000	-10.538	19.083	0.0	0.0
	6.00000	6.00000	19.50000	-10.828	19.083	0.0	0.0
	7.00000	6.00000	19.50000	-11.048	19.083	0.0	0.0
	8.00000	6.00000	19.50000	-11.214	19.083	0.0	0.0
	9.00000	6.00000	19.50000	-11.339	19.083	0.0	0.0
	10.00000	6.00000	19.50000	-11.431	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses			
X [m]	Y [m]	Z[Level] [mm]	Calc Level [MOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
11.00000	6.00000	19.50000	-11.496	19.083	0.0	0.0
12.00000	6.00000	19.50000	-11.537	19.083	0.0	0.0
13.00000	6.00000	19.50000	-11.558	19.083	0.0	0.0
14.00000	6.00000	19.50000	-11.560	19.083	0.0	0.0
15.00000	6.00000	19.50000	-11.544	19.083	0.0	0.0
16.00000	6.00000	19.50000	-11.509	19.083	0.0	0.0
17.00000	6.00000	19.50000	-11.451	19.083	0.0	0.0
18.00000	6.00000	19.50000	-11.361	19.083	0.0	0.0
19.00000	6.00000	19.50000	-11.205	19.083	0.0	0.0
20.00000	6.00000	19.50000	-11.086	19.083	0.0	0.0
21.00000	6.00000	19.50000	-10.958	19.083	0.0	0.0
22.00000	6.00000	19.50000	-10.772	19.083	0.0	0.0
23.00000	6.00000	19.50000	-10.630	19.083	0.0	0.0
24.00000	6.00000	19.50000	-10.496	19.083	0.0	0.0
25.00000	6.00000	19.50000	-10.354	19.083	0.0	0.0
26.00000	6.00000	19.50000	-10.196	19.083	0.0	0.0
27.00000	6.00000	19.50000	-10.011	19.083	0.0	0.0
28.00000	6.00000	19.50000	-9.7863	19.083	0.0	0.0
29.00000	6.00000	19.50000	-9.5055	19.083	0.0	0.0
30.00000	6.00000	19.50000	-9.1449	19.083	0.0	0.0
31.00000	6.00000	19.50000	-8.6682	19.083	0.0	0.0
32.00000	6.00000	19.50000	-8.0136	19.083	0.0	0.0
33.00000	6.00000	19.50000	-7.0553	19.083	0.0	0.0
34.00000	6.00000	19.50000	-5.1244	19.083	0.0	0.0
35.00000	6.00000	19.50000	-3.1954	19.083	0.0	0.0
36.00000	6.00000	19.50000	-2.2430	19.083	0.0	0.0
37.00000	6.00000	19.50000	-1.5984	19.083	0.0	0.0
38.00000	6.00000	19.50000	-1.1361	19.083	0.0	0.0
39.00000	6.00000	19.50000	-0.79448	19.083	0.0	0.0
40.00000	6.00000	19.50000	-0.53774	19.083	0.0	0.0
41.00000	6.00000	19.50000	-0.34277	19.083	0.0	0.0
42.00000	6.00000	19.50000	-0.19379	19.083	0.0	0.0
43.00000	6.00000	19.50000	-0.079636	19.083	0.0	0.0
44.00000	6.00000	19.50000	0.0078154	19.083	0.0	0.0
45.00000	6.00000	19.50000	0.074601	19.083	0.0	0.0
46.00000	6.00000	19.50000	0.12527	19.083	0.0	0.0
47.00000	6.00000	19.50000	0.16331	19.083	0.0	0.0
48.00000	6.00000	19.50000	0.19141	19.083	0.0	0.0
49.00000	6.00000	19.50000	0.21166	19.083	0.0	0.0
50.00000	6.00000	19.50000	0.22571	19.083	0.0	0.0
51.00000	6.00000	19.50000	0.23486	19.083	0.0	0.0
52.00000	6.00000	19.50000	0.24016	19.083	0.0	0.0
53.00000	6.00000	19.50000	0.24242	19.083	0.0	0.0
54.00000	6.00000	19.50000	0.24231	19.083	0.0	0.0
55.00000	6.00000	19.50000	0.24036	19.083	0.0	0.0
-25.00000	7.00000	19.50000	0.21613	19.083	0.0	0.0
-24.00000	7.00000	19.50000	0.21997	19.083	0.0	0.0
-23.00000	7.00000	19.50000	0.22286	19.083	0.0	0.0
-22.00000	7.00000	19.50000	0.22452	19.083	0.0	0.0
-21.00000	7.00000	19.50000	0.22460	19.083	0.0	0.0
-20.00000	7.00000	19.50000	0.22266	19.083	0.0	0.0
-19.00000	7.00000	19.50000	0.21819	19.083	0.0	0.0
-18.00000	7.00000	19.50000	0.21053	19.083	0.0	0.0
-17.00000	7.00000	19.50000	0.19887	19.083	0.0	0.0
-16.00000	7.00000	19.50000	0.18221	19.083	0.0	0.0
-15.00000	7.00000	19.50000	0.15931	19.083	0.0	0.0
-14.00000	7.00000	19.50000	0.12862	19.083	0.0	0.0
-13.00000	7.00000	19.50000	0.088188	19.083	0.0	0.0
-12.00000	7.00000	19.50000	0.035561	19.083	0.0	0.0
-11.00000	7.00000	19.50000	-0.032380	19.083	0.0	0.0
-10.00000	7.00000	19.50000	-0.11964	19.083	0.0	0.0
-9.00000	7.00000	19.50000	-0.23139	19.083	0.0	0.0
-8.00000	7.00000	19.50000	-0.37443	19.083	0.0	0.0
-7.00000	7.00000	19.50000	-0.55782	19.083	0.0	0.0
-6.00000	7.00000	19.50000	-0.79392	19.083	0.0	0.0
-5.00000	7.00000	19.50000	-1.1101	19.083	0.0	0.0
-4.00000	7.00000	19.50000	-1.5018	19.083	0.0	0.0
-3.00000	7.00000	19.50000	-2.0391	19.083	0.0	0.0
-2.00000	7.00000	19.50000	-2.7832	19.083	0.0	0.0
-1.00000	7.00000	19.50000	-3.8923	19.083	0.0	0.0
0.00000	7.00000	19.50000	-5.9207	19.083	0.0	0.0
1.00000	7.00000	19.50000	-7.9686	19.083	0.0	0.0
2.00000	7.00000	19.50000	-9.0763	19.083	0.0	0.0
3.00000	7.00000	19.50000	-9.8181	19.083	0.0	0.0
4.00000	7.00000	19.50000	-10.352	19.083	0.0	0.0
5.00000	7.00000	19.50000	-10.749	19.083	0.0	0.0
6.00000	7.00000	19.50000	-11.049	19.083	0.0	0.0
7.00000	7.00000	19.50000	-11.277	19.083	0.0	0.0
8.00000	7.00000	19.50000	-11.450	19.083	0.0	0.0
9.00000	7.00000	19.50000	-11.580	19.083	0.0	0.0
10.00000	7.00000	19.50000	-11.676	19.083	0.0	0.0
11.00000	7.00000	19.50000	-11.743	19.083	0.0	0.0
12.00000	7.00000	19.50000	-11.786	19.083	0.0	0.0
13.00000	7.00000	19.50000	-11.808	19.083	0.0	0.0
14.00000	7.00000	19.50000	-11.810	19.083	0.0	0.0
15.00000	7.00000	19.50000	-11.794	19.083	0.0	0.0
16.00000	7.00000	19.50000	-11.758	19.083	0.0	0.0
17.00000	7.00000	19.50000	-11.698	19.083	0.0	0.0
18.00000	7.00000	19.50000	-11.606	19.083	0.0	0.0
19.00000	7.00000	19.50000	-11.447	19.083	0.0	0.0
20.00000	7.00000	19.50000	-11.325	19.083	0.0	0.0
21.00000	7.00000	19.50000	-11.193	19.083	0.0	0.0
22.00000	7.00000	19.50000	-11.004	19.083	0.0	0.0
23.00000	7.00000	19.50000	-10.857	19.083	0.0	0.0
24.00000	7.00000	19.50000	-10.718	19.083	0.0	0.0
25.00000	7.00000	19.50000	-10.571	19.083	0.0	0.0
26.00000	7.00000	19.50000	-10.407	19.083	0.0	0.0
27.00000	7.00000	19.50000	-10.215	19.083	0.0	0.0
28.00000	7.00000	19.50000	-9.9816	19.083	0.0	0.0
29.00000	7.00000	19.50000	-9.6911	19.083	0.0	0.0
30.00000	7.00000	19.50000	-9.3191	19.083	0.0	0.0
31.00000	7.00000	19.50000	-8.8293	19.083	0.0	0.0
32.00000	7.00000	19.50000	-8.1599	19.083	0.0	0.0
33.00000	7.00000	19.50000	-7.1853	19.083	0.0	0.0
34.00000	7.00000	19.50000	-5.2375	19.083	0.0	0.0
35.00000	7.00000	19.50000	-3.2917	19.083	0.0	0.0
36.00000	7.00000	19.50000	-2.3233	19.083	0.0	0.0
37.00000	7.00000	19.50000	-1.6643	19.083	0.0	0.0
38.00000	7.00000	19.50000	-1.1893	19.083	0.0	0.0
39.00000	7.00000	19.50000	-0.83695	19.083	0.0	0.0
40.00000	7.00000	19.50000	-0.57129	19.083	0.0	0.0
41.00000	7.00000	19.50000	-0.36902	19.083	0.0	0.0
42.00000	7.00000	19.50000	-0.21415	19.083	0.0	0.0
43.00000	7.00000	19.50000	-0.095273	19.083	0.0	0.0
44.00000	7.00000	19.50000	-0.0040615	19.083	0.0	0.0
45.00000	7.00000	19.50000	0.065701	19.083	0.0	0.0
46.00000	7.00000	19.50000	0.11872	19.083	0.0	0.0
47.00000	7.00000	19.50000	0.15860	19.083	0.0	0.0
48.00000	7.00000	19.50000	0.18814	19.083	0.0	0.0
49.00000	7.00000	19.50000	0.20951	19.083	0.0	0.0
50.00000	7.00000	19.50000	0.22442	19.083	0.0	0.0
51.00000	7.00000	19.50000	0.23424	19.083	0.0	0.0
52.00000	7.00000	19.50000	0.24004	19.083	0.0	0.0
53.00000	7.00000	19.50000	0.24268	19.083	0.0	0.0
54.00000	7.00000	19.50000	0.24285	19.083	0.0	0.0
55.00000	7.00000	19.50000	0.24109	19.083	0.0	0.0
-25.00000	8.00000	19.50000	0.21680	19.083	0.0	0.0
-24.00000	8.00000	19.50000	0.22057	19.083	0.0	0.0
-23.00000	8.00000	19.50000	0.22335	19.083	0.0	0.0
-22.00000	8.00000	19.50000	0.22486	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-21.00000	8.00000	19.50000	0.22473	19.083	0.0	0.0
	-20.00000	8.00000	19.50000	0.22253	19.083	0.0	0.0
	-19.00000	8.00000	19.50000	0.21770	19.083	0.0	0.0
	-18.00000	8.00000	19.50000	0.20958	19.083	0.0	0.0
	-17.00000	8.00000	19.50000	0.19733	19.083	0.0	0.0
	-16.00000	8.00000	19.50000	0.17991	19.083	0.0	0.0
	-15.00000	8.00000	19.50000	0.15604	19.083	0.0	0.0
	-14.00000	8.00000	19.50000	0.12412	19.083	0.0	0.0
	-13.00000	8.00000	19.50000	0.082144	19.083	0.0	0.0
	-12.00000	8.00000	19.50000	0.027582	19.083	0.0	0.0
	-11.00000	8.00000	19.50000	-0.042778	19.083	0.0	0.0
	-10.00000	8.00000	19.50000	-0.13304	19.083	0.0	0.0
	-9.00000	8.00000	19.50000	-0.24851	19.083	0.0	0.0
	-8.00000	8.00000	19.50000	-0.39613	19.083	0.0	0.0
	-7.00000	8.00000	19.50000	-0.58511	19.083	0.0	0.0
	-6.00000	8.00000	19.50000	-0.82795	19.083	0.0	0.0
	-5.00000	8.00000	19.50000	-1.1421	19.083	0.0	0.0
	-4.00000	8.00000	19.50000	-1.5533	19.083	0.0	0.0
	-3.00000	8.00000	19.50000	-2.1014	19.083	0.0	0.0
	-2.00000	8.00000	19.50000	-2.8576	19.083	0.0	0.0
	-1.00000	8.00000	19.50000	-3.9797	19.083	0.0	0.0
	0.00000	8.00000	19.50000	-6.0317	19.083	0.0	0.0
	1.00000	8.00000	19.50000	-8.0831	19.083	0.0	0.0
	2.00000	8.00000	19.50000	-9.2039	19.083	0.0	0.0
	3.00000	8.00000	19.50000	-9.9576	19.083	0.0	0.0
	4.00000	8.00000	19.50000	-10.502	19.083	0.0	0.0
	5.00000	8.00000	19.50000	-10.908	19.083	0.0	0.0
	6.00000	8.00000	19.50000	-11.216	19.083	0.0	0.0
	7.00000	8.00000	19.50000	-11.450	19.083	0.0	0.0
	8.00000	8.00000	19.50000	-11.629	19.083	0.0	0.0
	9.00000	8.00000	19.50000	-11.763	19.083	0.0	0.0
	10.00000	8.00000	19.50000	-11.862	19.083	0.0	0.0
	11.00000	8.00000	19.50000	-11.931	19.083	0.0	0.0
	12.00000	8.00000	19.50000	-11.976	19.083	0.0	0.0
	13.00000	8.00000	19.50000	-11.999	19.083	0.0	0.0
	14.00000	8.00000	19.50000	-12.001	19.083	0.0	0.0
	15.00000	8.00000	19.50000	-11.985	19.083	0.0	0.0
	16.00000	8.00000	19.50000	-11.947	19.083	0.0	0.0
	17.00000	8.00000	19.50000	-11.887	19.083	0.0	0.0
	18.00000	8.00000	19.50000	-11.792	19.083	0.0	0.0
	19.00000	8.00000	19.50000	-11.632	19.083	0.0	0.0
	20.00000	8.00000	19.50000	-11.507	19.083	0.0	0.0
	21.00000	8.00000	19.50000	-11.373	19.083	0.0	0.0
	22.00000	8.00000	19.50000	-11.180	19.083	0.0	0.0
	23.00000	8.00000	19.50000	-11.030	19.083	0.0	0.0
	24.00000	8.00000	19.50000	-10.887	19.083	0.0	0.0
	25.00000	8.00000	19.50000	-10.736	19.083	0.0	0.0
	26.00000	8.00000	19.50000	-10.566	19.083	0.0	0.0
	27.00000	8.00000	19.50000	-10.368	19.083	0.0	0.0
	28.00000	8.00000	19.50000	-10.129	19.083	0.0	0.0
	29.00000	8.00000	19.50000	-9.8306	19.083	0.0	0.0
	30.00000	8.00000	19.50000	-9.4499	19.083	0.0	0.0
	31.00000	8.00000	19.50000	-8.9502	19.083	0.0	0.0
	32.00000	8.00000	19.50000	-8.2699	19.083	0.0	0.0
	33.00000	8.00000	19.50000	-7.2837	19.083	0.0	0.0
	34.00000	8.00000	19.50000	-5.3237	19.083	0.0	0.0
	35.00000	8.00000	19.50000	-3.3659	19.083	0.0	0.0
	36.00000	8.00000	19.50000	-2.3860	19.083	0.0	0.0
	37.00000	8.00000	19.50000	-1.7163	19.083	0.0	0.0
	38.00000	8.00000	19.50000	-1.2319	19.083	0.0	0.0
	39.00000	8.00000	19.50000	-0.87136	19.083	0.0	0.0
	40.00000	8.00000	19.50000	-0.59877	19.083	0.0	0.0
	41.00000	8.00000	19.50000	-0.39073	19.083	0.0	0.0
	42.00000	8.00000	19.50000	-0.23113	19.083	0.0	0.0
	43.00000	8.00000	19.50000	-0.10841	19.083	0.0	0.0
	44.00000	8.00000	19.50000	-0.014102	19.083	0.0	0.0
	45.00000	8.00000	19.50000	0.058136	19.083	0.0	0.0
	46.00000	8.00000	19.50000	0.11312	19.083	0.0	0.0
	47.00000	8.00000	19.50000	0.15456	19.083	0.0	0.0
	48.00000	8.00000	19.50000	0.18531	19.083	0.0	0.0
	49.00000	8.00000	19.50000	0.20764	19.083	0.0	0.0
	50.00000	8.00000	19.50000	0.22329	19.083	0.0	0.0
	51.00000	8.00000	19.50000	0.23368	19.083	0.0	0.0
	52.00000	8.00000	19.50000	0.23991	19.083	0.0	0.0
	53.00000	8.00000	19.50000	0.24288	19.083	0.0	0.0
	54.00000	8.00000	19.50000	0.24329	19.083	0.0	0.0
	55.00000	8.00000	19.50000	0.24171	19.083	0.0	0.0
	-25.00000	9.00000	19.50000	0.21735	19.083	0.0	0.0
	-24.00000	9.00000	19.50000	0.22105	19.083	0.0	0.0
	-23.00000	9.00000	19.50000	0.22374	19.083	0.0	0.0
	-22.00000	9.00000	19.50000	0.22513	19.083	0.0	0.0
	-21.00000	9.00000	19.50000	0.22483	19.083	0.0	0.0
	-20.00000	9.00000	19.50000	0.22240	19.083	0.0	0.0
	-19.00000	9.00000	19.50000	0.21728	19.083	0.0	0.0
	-18.00000	9.00000	19.50000	0.20877	19.083	0.0	0.0
	-17.00000	9.00000	19.50000	0.19602	19.083	0.0	0.0
	-16.00000	9.00000	19.50000	0.17797	19.083	0.0	0.0
	-15.00000	9.00000	19.50000	0.15331	19.083	0.0	0.0
	-14.00000	9.00000	19.50000	0.12038	19.083	0.0	0.0
	-13.00000	9.00000	19.50000	0.077145	19.083	0.0	0.0
	-12.00000	9.00000	19.50000	0.020005	19.083	0.0	0.0
	-11.00000	9.00000	19.50000	-0.051315	19.083	0.0	0.0
	-10.00000	9.00000	19.50000	-0.14400	19.083	0.0	0.0
	-9.00000	9.00000	19.50000	-0.26244	19.083	0.0	0.0
	-8.00000	9.00000	19.50000	-0.41368	19.083	0.0	0.0
	-7.00000	9.00000	19.50000	-0.60702	19.083	0.0	0.0
	-6.00000	9.00000	19.50000	-0.85506	19.083	0.0	0.0
	-5.00000	9.00000	19.50000	-1.1754	19.083	0.0	0.0
	-4.00000	9.00000	19.50000	-1.5936	19.083	0.0	0.0
	-3.00000	9.00000	19.50000	-2.1497	19.083	0.0	0.0
	-2.00000	9.00000	19.50000	-2.9147	19.083	0.0	0.0
	-1.00000	9.00000	19.50000	-4.0462	19.083	0.0	0.0
	0.00000	9.00000	19.50000	-6.1079	19.083	0.0	0.0
	1.00000	9.00000	19.50000	-8.1691	19.083	0.0	0.0
	2.00000	9.00000	19.50000	-9.2992	19.083	0.0	0.0
	3.00000	9.00000	19.50000	-10.062	19.083	0.0	0.0
	4.00000	9.00000	19.50000	-10.614	19.083	0.0	0.0
	5.00000	9.00000	19.50000	-11.027	19.083	0.0	0.0
	6.00000	9.00000	19.50000	-11.341	19.083	0.0	0.0
	7.00000	9.00000	19.50000	-11.580	19.083	0.0	0.0
	8.00000	9.00000	19.50000	-11.762	19.083	0.0	0.0
	9.00000	9.00000	19.50000	-11.900	19.083	0.0	0.0
	10.00000	9.00000	19.50000	-12.001	19.083	0.0	0.0
	11.00000	9.00000	19.50000	-12.072	19.083	0.0	0.0
	12.00000	9.00000	19.50000	-12.118	19.083	0.0	0.0
	13.00000	9.00000	19.50000	-12.142	19.083	0.0	0.0
	14.00000	9.00000	19.50000	-12.145	19.083	0.0	0.0
	15.00000	9.00000	19.50000	-12.128	19.083	0.0	0.0
	16.00000	9.00000	19.50000	-12.090	19.083	0.0	0.0
	17.00000	9.00000	19.50000	-12.028	19.083	0.0	0.0
	18.00000	9.00000	19.50000	-11.933	19.083	0.0	0.0
	19.00000	9.00000	19.50000	-11.770	19.083	0.0	0.0
	20.00000	9.00000	19.50000	-11.644	19.083	0.0	0.0
	21.00000	9.00000	19.50000	-11.507	19.083	0.0	0.0
	22.00000	9.00000	19.50000	-11.312	19.083	0.0	0.0
	23.00000	9.00000	19.50000	-11.159	19.083	0.0	0.0
	24.00000	9.00000	19.50000	-11.013	19.083	0.0	0.0
	25.00000	9.00000	19.50000	-10.858	19.083	0.0	0.0
	26.00000	9.00000	19.50000	-10.685	19.083	0.0	0.0
	27.00000	9.00000	19.50000	-10.483	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses			
X [m]	Y [m]	Z[Level] [mm]	Calc Level [MOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
28.00000	9.00000	19.50000	-10.238	19.083	0.0	0.0
29.00000	9.00000	19.50000	-9.9341	19.083	0.0	0.0
30.00000	9.00000	19.50000	-9.5469	19.083	0.0	0.0
31.00000	9.00000	19.50000	-9.0399	19.083	0.0	0.0
32.00000	9.00000	19.50000	-8.3517	19.083	0.0	0.0
33.00000	9.00000	19.50000	-7.3570	19.083	0.0	0.0
34.00000	9.00000	19.50000	-5.3884	19.083	0.0	0.0
35.00000	9.00000	19.50000	-3.4220	19.083	0.0	0.0
36.00000	9.00000	19.50000	-2.4338	19.083	0.0	0.0
37.00000	9.00000	19.50000	-1.7564	19.083	0.0	0.0
38.00000	9.00000	19.50000	-1.2650	19.083	0.0	0.0
39.00000	9.00000	19.50000	-0.89840	19.083	0.0	0.0
40.00000	9.00000	19.50000	-0.62056	19.083	0.0	0.0
41.00000	9.00000	19.50000	-0.40809	19.083	0.0	0.0
42.00000	9.00000	19.50000	-0.24480	19.083	0.0	0.0
43.00000	9.00000	19.50000	-0.11905	19.083	0.0	0.0
44.00000	9.00000	19.50000	-0.022283	19.083	0.0	0.0
45.00000	9.00000	19.50000	0.051942	19.083	0.0	0.0
46.00000	9.00000	19.50000	0.10852	19.083	0.0	0.0
47.00000	9.00000	19.50000	0.15122	19.083	0.0	0.0
48.00000	9.00000	19.50000	0.18297	19.083	0.0	0.0
49.00000	9.00000	19.50000	0.20608	19.083	0.0	0.0
50.00000	9.00000	19.50000	0.22234	19.083	0.0	0.0
51.00000	9.00000	19.50000	0.23320	19.083	0.0	0.0
52.00000	9.00000	19.50000	0.23979	19.083	0.0	0.0
53.00000	9.00000	19.50000	0.24303	19.083	0.0	0.0
54.00000	9.00000	19.50000	0.24364	19.083	0.0	0.0
55.00000	9.00000	19.50000	0.24221	19.083	0.0	0.0
-25.00000	10.00000	19.50000	0.21778	19.083	0.0	0.0
-24.00000	10.00000	19.50000	0.22143	19.083	0.0	0.0
-23.00000	10.00000	19.50000	0.22405	19.083	0.0	0.0
-22.00000	10.00000	19.50000	0.22533	19.083	0.0	0.0
-21.00000	10.00000	19.50000	0.22490	19.083	0.0	0.0
-20.00000	10.00000	19.50000	0.22229	19.083	0.0	0.0
-19.00000	10.00000	19.50000	0.21694	19.083	0.0	0.0
-18.00000	10.00000	19.50000	0.20813	19.083	0.0	0.0
-17.00000	10.00000	19.50000	0.19499	19.083	0.0	0.0
-16.00000	10.00000	19.50000	0.17645	19.083	0.0	0.0
-15.00000	10.00000	19.50000	0.15116	19.083	0.0	0.0
-14.00000	10.00000	19.50000	0.11745	19.083	0.0	0.0
-13.00000	10.00000	19.50000	0.072288	19.083	0.0	0.0
-12.00000	10.00000	19.50000	0.015867	19.083	0.0	0.0
-11.00000	10.00000	19.50000	-0.057962	19.083	0.0	0.0
-10.00000	10.00000	19.50000	-0.15250	19.083	0.0	0.0
-9.00000	10.00000	19.50000	-0.27320	19.083	0.0	0.0
-8.00000	10.00000	19.50000	-0.42716	19.083	0.0	0.0
-7.00000	10.00000	19.50000	-0.62376	19.083	0.0	0.0
-6.00000	10.00000	19.50000	-0.87566	19.083	0.0	0.0
-5.00000	10.00000	19.50000	-1.2004	19.083	0.0	0.0
-4.00000	10.00000	19.50000	-1.6237	19.083	0.0	0.0
-3.00000	10.00000	19.50000	-2.1856	19.083	0.0	0.0
-2.00000	10.00000	19.50000	-2.9568	19.083	0.0	0.0
-1.00000	10.00000	19.50000	-4.0950	19.083	0.0	0.0
0.00000	10.00000	19.50000	-6.1635	19.083	0.0	0.0
1.00000	10.00000	19.50000	-8.2315	19.083	0.0	0.0
2.00000	10.00000	19.50000	-9.3681	19.083	0.0	0.0
3.00000	10.00000	19.50000	-10.137	19.083	0.0	0.0
4.00000	10.00000	19.50000	-10.695	19.083	0.0	0.0
5.00000	10.00000	19.50000	-11.113	19.083	0.0	0.0
6.00000	10.00000	19.50000	-11.431	19.083	0.0	0.0
7.00000	10.00000	19.50000	-11.674	19.083	0.0	0.0
8.00000	10.00000	19.50000	-11.859	19.083	0.0	0.0
9.00000	10.00000	19.50000	-11.999	19.083	0.0	0.0
10.00000	10.00000	19.50000	-12.102	19.083	0.0	0.0
11.00000	10.00000	19.50000	-12.175	19.083	0.0	0.0
12.00000	10.00000	19.50000	-12.221	19.083	0.0	0.0
13.00000	10.00000	19.50000	-12.245	19.083	0.0	0.0
14.00000	10.00000	19.50000	-12.249	19.083	0.0	0.0
15.00000	10.00000	19.50000	-12.232	19.083	0.0	0.0
16.00000	10.00000	19.50000	-12.193	19.083	0.0	0.0
17.00000	10.00000	19.50000	-12.131	19.083	0.0	0.0
18.00000	10.00000	19.50000	-12.034	19.083	0.0	0.0
19.00000	10.00000	19.50000	-11.871	19.083	0.0	0.0
20.00000	10.00000	19.50000	-11.743	19.083	0.0	0.0
21.00000	10.00000	19.50000	-11.605	19.083	0.0	0.0
22.00000	10.00000	19.50000	-11.408	19.083	0.0	0.0
23.00000	10.00000	19.50000	-11.253	19.083	0.0	0.0
24.00000	10.00000	19.50000	-11.104	19.083	0.0	0.0
25.00000	10.00000	19.50000	-10.947	19.083	0.0	0.0
26.00000	10.00000	19.50000	-10.771	19.083	0.0	0.0
27.00000	10.00000	19.50000	-10.565	19.083	0.0	0.0
28.00000	10.00000	19.50000	-10.317	19.083	0.0	0.0
29.00000	10.00000	19.50000	-10.009	19.083	0.0	0.0
30.00000	10.00000	19.50000	-9.6166	19.083	0.0	0.0
31.00000	10.00000	19.50000	-9.1044	19.083	0.0	0.0
32.00000	10.00000	19.50000	-8.47106	19.083	0.0	0.0
33.00000	10.00000	19.50000	-7.4100	19.083	0.0	0.0
34.00000	10.00000	19.50000	-5.4353	19.083	0.0	0.0
35.00000	10.00000	19.50000	-3.4629	19.083	0.0	0.0
36.00000	10.00000	19.50000	-2.4689	19.083	0.0	0.0
37.00000	10.00000	19.50000	-1.7861	19.083	0.0	0.0
38.00000	10.00000	19.50000	-1.2897	19.083	0.0	0.0
39.00000	10.00000	19.50000	-0.91870	19.083	0.0	0.0
40.00000	10.00000	19.50000	-0.63704	19.083	0.0	0.0
41.00000	10.00000	19.50000	-0.42131	19.083	0.0	0.0
42.00000	10.00000	19.50000	-0.25527	19.083	0.0	0.0
43.00000	10.00000	19.50000	-0.12725	19.083	0.0	0.0
44.00000	10.00000	19.50000	-0.028609	19.083	0.0	0.0
45.00000	10.00000	19.50000	0.047132	19.083	0.0	0.0
46.00000	10.00000	19.50000	0.10493	19.083	0.0	0.0
47.00000	10.00000	19.50000	0.14861	19.083	0.0	0.0
48.00000	10.00000	19.50000	0.18113	19.083	0.0	0.0
49.00000	10.00000	19.50000	0.20485	19.083	0.0	0.0
50.00000	10.00000	19.50000	0.22159	19.083	0.0	0.0
51.00000	10.00000	19.50000	0.23281	19.083	0.0	0.0
52.00000	10.00000	19.50000	0.23969	19.083	0.0	0.0
53.00000	10.00000	19.50000	0.24314	19.083	0.0	0.0
54.00000	10.00000	19.50000	0.24391	19.083	0.0	0.0
55.00000	10.00000	19.50000	0.24259	19.083	0.0	0.0
-25.00000	11.00000	19.50000	0.21808	19.083	0.0	0.0
-24.00000	11.00000	19.50000	0.22169	19.083	0.0	0.0
-23.00000	11.00000	19.50000	0.22426	19.083	0.0	0.0
-22.00000	11.00000	19.50000	0.22547	19.083	0.0	0.0
-21.00000	11.00000	19.50000	0.22495	19.083	0.0	0.0
-20.00000	11.00000	19.50000	0.22221	19.083	0.0	0.0
-19.00000	11.00000	19.50000	0.21669	19.083	0.0	0.0
-18.00000	11.00000	19.50000	0.20766	19.083	0.0	0.0
-17.00000	11.00000	19.50000	0.19424	19.083	0.0	0.0
-16.00000	11.00000	19.50000	0.17535	19.083	0.0	0.0
-15.00000	11.00000	19.50000	0.14961	19.083	0.0	0.0
-14.00000	11.00000	19.50000	0.11534	19.083	0.0	0.0
-13.00000	11.00000	19.50000	0.070417	19.083	0.0	0.0
-12.00000	11.00000	19.50000	0.012189	19.083	0.0	0.0
-11.00000	11.00000	19.50000	-0.062708	19.083	0.0	0.0
-10.00000	11.00000	19.50000	-0.15855	19.083	0.0	0.0
-9.00000	11.00000	19.50000	-0.28083	19.083	0.0	0.0
-8.00000	11.00000	19.50000	-0.43669	19.083	0.0	0.0
-7.00000	11.00000	19.50000	-0.63555	19.083	0.0	0.0
-6.00000	11.00000	19.50000	-0.89009	19.083	0.0	0.0
-5.00000	11.00000	19.50000	-1.2179	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-4.00000	11.00000	19.50000	-1.6447	19.083	0.0	0.0
	-3.00000	11.00000	19.50000	-2.2104	19.083	0.0	0.0
	-2.00000	11.00000	19.50000	-2.9858	19.083	0.0	0.0
	-1.00000	11.00000	19.50000	-4.1283	19.083	0.0	0.0
	0.00000	11.00000	19.50000	-6.2013	19.083	0.0	0.0
	1.00000	11.00000	19.50000	-8.2738	19.083	0.0	0.0
	2.00000	11.00000	19.50000	-9.4148	19.083	0.0	0.0
	3.00000	11.00000	19.50000	-10.188	19.083	0.0	0.0
	4.00000	11.00000	19.50000	-10.749	19.083	0.0	0.0
	5.00000	11.00000	19.50000	-11.171	19.083	0.0	0.0
	6.00000	11.00000	19.50000	-11.491	19.083	0.0	0.0
	7.00000	11.00000	19.50000	-11.737	19.083	0.0	0.0
	8.00000	11.00000	19.50000	-11.924	19.083	0.0	0.0
	9.00000	11.00000	19.50000	-12.066	19.083	0.0	0.0
	10.00000	11.00000	19.50000	-12.170	19.083	0.0	0.0
	11.00000	11.00000	19.50000	-12.244	19.083	0.0	0.0
	12.00000	11.00000	19.50000	-12.291	19.083	0.0	0.0
	13.00000	11.00000	19.50000	-12.316	19.083	0.0	0.0
	14.00000	11.00000	19.50000	-12.319	19.083	0.0	0.0
	15.00000	11.00000	19.50000	-12.302	19.083	0.0	0.0
	16.00000	11.00000	19.50000	-12.264	19.083	0.0	0.0
	17.00000	11.00000	19.50000	-12.201	19.083	0.0	0.0
	18.00000	11.00000	19.50000	-12.103	19.083	0.0	0.0
	19.00000	11.00000	19.50000	-11.939	19.083	0.0	0.0
	20.00000	11.00000	19.50000	-11.811	19.083	0.0	0.0
	21.00000	11.00000	19.50000	-11.671	19.083	0.0	0.0
	22.00000	11.00000	19.50000	-11.473	19.083	0.0	0.0
	23.00000	11.00000	19.50000	-11.316	19.083	0.0	0.0
	24.00000	11.00000	19.50000	-11.166	19.083	0.0	0.0
	25.00000	11.00000	19.50000	-11.007	19.083	0.0	0.0
	26.00000	11.00000	19.50000	-10.829	19.083	0.0	0.0
	27.00000	11.00000	19.50000	-10.621	19.083	0.0	0.0
	28.00000	11.00000	19.50000	-10.370	19.083	0.0	0.0
	29.00000	11.00000	19.50000	-10.059	19.083	0.0	0.0
	30.00000	11.00000	19.50000	-9.6635	19.083	0.0	0.0
	31.00000	11.00000	19.50000	-9.1479	19.083	0.0	0.0
	32.00000	11.00000	19.50000	-8.4503	19.083	0.0	0.0
	33.00000	11.00000	19.50000	-7.4458	19.083	0.0	0.0
	34.00000	11.00000	19.50000	-5.4672	19.083	0.0	0.0
	35.00000	11.00000	19.50000	-3.4907	19.083	0.0	0.0
	36.00000	11.00000	19.50000	-2.4929	19.083	0.0	0.0
	37.00000	11.00000	19.50000	-1.8065	19.083	0.0	0.0
	38.00000	11.00000	19.50000	-1.3068	19.083	0.0	0.0
	39.00000	11.00000	19.50000	-0.93282	19.083	0.0	0.0
	40.00000	11.00000	19.50000	-0.64855	19.083	0.0	0.0
	41.00000	11.00000	19.50000	-0.43058	19.083	0.0	0.0
	42.00000	11.00000	19.50000	-0.26265	19.083	0.0	0.0
	43.00000	11.00000	19.50000	-0.13305	19.083	0.0	0.0
	44.00000	11.00000	19.50000	-0.033103	19.083	0.0	0.0
	45.00000	11.00000	19.50000	0.043705	19.083	0.0	0.0
	46.00000	11.00000	19.50000	0.10237	19.083	0.0	0.0
	47.00000	11.00000	19.50000	0.14673	19.083	0.0	0.0
	48.00000	11.00000	19.50000	0.17981	19.083	0.0	0.0
	49.00000	11.00000	19.50000	0.20396	19.083	0.0	0.0
	50.00000	11.00000	19.50000	0.22104	19.083	0.0	0.0
	51.00000	11.00000	19.50000	0.23253	19.083	0.0	0.0
	52.00000	11.00000	19.50000	0.23961	19.083	0.0	0.0
	53.00000	11.00000	19.50000	0.24321	19.083	0.0	0.0
	54.00000	11.00000	19.50000	0.24410	19.083	0.0	0.0
	55.00000	11.00000	19.50000	0.24286	19.083	0.0	0.0
	-25.00000	12.00000	19.50000	0.21826	19.083	0.0	0.0
	-24.00000	12.00000	19.50000	0.22185	19.083	0.0	0.0
	-23.00000	12.00000	19.50000	0.22439	19.083	0.0	0.0
	-22.00000	12.00000	19.50000	0.22556	19.083	0.0	0.0
	-21.00000	12.00000	19.50000	0.22497	19.083	0.0	0.0
	-20.00000	12.00000	19.50000	0.22216	19.083	0.0	0.0
	-19.00000	12.00000	19.50000	0.21653	19.083	0.0	0.0
	-18.00000	12.00000	19.50000	0.20737	19.083	0.0	0.0
	-17.00000	12.00000	19.50000	0.19379	19.083	0.0	0.0
	-16.00000	12.00000	19.50000	0.17468	19.083	0.0	0.0
	-15.00000	12.00000	19.50000	0.14867	19.083	0.0	0.0
	-14.00000	12.00000	19.50000	0.11407	19.083	0.0	0.0
	-13.00000	12.00000	19.50000	0.068726	19.083	0.0	0.0
	-12.00000	12.00000	19.50000	0.0099795	19.083	0.0	0.0
	-11.00000	12.00000	19.50000	-0.065553	19.083	0.0	0.0
	-10.00000	12.00000	19.50000	-0.16217	19.083	0.0	0.0
	-9.00000	12.00000	19.50000	-0.28539	19.083	0.0	0.0
	-8.00000	12.00000	19.50000	-0.44237	19.083	0.0	0.0
	-7.00000	12.00000	19.50000	-0.64255	19.083	0.0	0.0
	-6.00000	12.00000	19.50000	-0.89864	19.083	0.0	0.0
	-5.00000	12.00000	19.50000	-1.2282	19.083	0.0	0.0
	-4.00000	12.00000	19.50000	-1.6570	19.083	0.0	0.0
	-3.00000	12.00000	19.50000	-2.2249	19.083	0.0	0.0
	-2.00000	12.00000	19.50000	-3.0027	19.083	0.0	0.0
	-1.00000	12.00000	19.50000	-4.1477	19.083	0.0	0.0
	0.00000	12.00000	19.50000	-6.2223	19.083	0.0	0.0
	1.00000	12.00000	19.50000	-8.2983	19.083	0.0	0.0
	2.00000	12.00000	19.50000	-9.4418	19.083	0.0	0.0
	3.00000	12.00000	19.50000	-10.217	19.083	0.0	0.0
	4.00000	12.00000	19.50000	-10.781	19.083	0.0	0.0
	5.00000	12.00000	19.50000	-11.204	19.083	0.0	0.0
	6.00000	12.00000	19.50000	-11.527	19.083	0.0	0.0
	7.00000	12.00000	19.50000	-11.774	19.083	0.0	0.0
	8.00000	12.00000	19.50000	-11.962	19.083	0.0	0.0
	9.00000	12.00000	19.50000	-12.105	19.083	0.0	0.0
	10.00000	12.00000	19.50000	-12.210	19.083	0.0	0.0
	11.00000	12.00000	19.50000	-12.284	19.083	0.0	0.0
	12.00000	12.00000	19.50000	-12.332	19.083	0.0	0.0
	13.00000	12.00000	19.50000	-12.357	19.083	0.0	0.0
	14.00000	12.00000	19.50000	-12.360	19.083	0.0	0.0
	15.00000	12.00000	19.50000	-12.343	19.083	0.0	0.0
	16.00000	12.00000	19.50000	-12.304	19.083	0.0	0.0
	17.00000	12.00000	19.50000	-12.241	19.083	0.0	0.0
	18.00000	12.00000	19.50000	-12.143	19.083	0.0	0.0
	19.00000	12.00000	19.50000	-11.979	19.083	0.0	0.0
	20.00000	12.00000	19.50000	-11.850	19.083	0.0	0.0
	21.00000	12.00000	19.50000	-11.709	19.083	0.0	0.0
	22.00000	12.00000	19.50000	-11.510	19.083	0.0	0.0
	23.00000	12.00000	19.50000	-11.353	19.083	0.0	0.0
	24.00000	12.00000	19.50000	-11.202	19.083	0.0	0.0
	25.00000	12.00000	19.50000	-11.042	19.083	0.0	0.0
	26.00000	12.00000	19.50000	-10.862	19.083	0.0	0.0
	27.00000	12.00000	19.50000	-10.653	19.083	0.0	0.0
	28.00000	12.00000	19.50000	-10.400	19.083	0.0	0.0
	29.00000	12.00000	19.50000	-10.088	19.083	0.0	0.0
	30.00000	12.00000	19.50000	-9.6906	19.083	0.0	0.0
	31.00000	12.00000	19.50000	-9.1730	19.083	0.0	0.0
	32.00000	12.00000	19.50000	-8.4732	19.083	0.0	0.0
	33.00000	12.00000	19.50000	-7.4665	19.083	0.0	0.0
	34.00000	12.00000	19.50000	-5.4856	19.083	0.0	0.0
	35.00000	12.00000	19.50000	-3.5069	19.083	0.0	0.0
	36.00000	12.00000	19.50000	-2.5068	19.083	0.0	0.0
	37.00000	12.00000	19.50000	-1.8184	19.083	0.0	0.0
	38.00000	12.00000	19.50000	-1.3168	19.083	0.0	0.0
	39.00000	12.00000	19.50000	-0.94113	19.083	0.0	0.0
	40.00000	12.00000	19.50000	-0.65536	19.083	0.0	0.0
	41.00000	12.00000	19.50000	-0.43608	19.083	0.0	0.0
	42.00000	12.00000	19.50000	-0.26704	19.083	0.0	0.0
	43.00000	12.00000	19.50000	-0.13650	19.083	0.0	0.0
	44.00000	12.00000	19.50000	-0.035787	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X	Location	Displacement	Stresses	Vert Strain		
	[m]	[m]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	[-]
	45.00000	12.00000	19.50000	0.041654	19.083	0.0	0.0
	46.00000	12.00000	19.50000	0.10083	19.083	0.0	0.0
	47.00000	12.00000	19.50000	0.14561	19.083	0.0	0.0
	48.00000	12.00000	19.50000	0.17902	19.083	0.0	0.0
	49.00000	12.00000	19.50000	0.20343	19.083	0.0	0.0
	50.00000	12.00000	19.50000	0.22071	19.083	0.0	0.0
	51.00000	12.00000	19.50000	0.23236	19.083	0.0	0.0
	52.00000	12.00000	19.50000	0.23956	19.083	0.0	0.0
	53.00000	12.00000	19.50000	0.24326	19.083	0.0	0.0
	54.00000	12.00000	19.50000	0.24421	19.083	0.0	0.0
	55.00000	12.00000	19.50000	0.24303	19.083	0.0	0.0
	-25.00000	13.00000	19.50000	0.21832	19.083	0.0	0.0
	-24.00000	13.00000	19.50000	0.22191	19.083	0.0	0.0
	-23.00000	13.00000	19.50000	0.22443	19.083	0.0	0.0
	-22.00000	13.00000	19.50000	0.22558	19.083	0.0	0.0
	-21.00000	13.00000	19.50000	0.22498	19.083	0.0	0.0
	-20.00000	13.00000	19.50000	0.22214	19.083	0.0	0.0
	-19.00000	13.00000	19.50000	0.21648	19.083	0.0	0.0
	-18.00000	13.00000	19.50000	0.20728	19.083	0.0	0.0
	-17.00000	13.00000	19.50000	0.19364	19.083	0.0	0.0
	-16.00000	13.00000	19.50000	0.17446	19.083	0.0	0.0
	-15.00000	13.00000	19.50000	0.14836	19.083	0.0	0.0
	-14.00000	13.00000	19.50000	0.11364	19.083	0.0	0.0
	-13.00000	13.00000	19.50000	0.068161	19.083	0.0	0.0
	-12.00000	13.00000	19.50000	0.0092428	19.083	0.0	0.0
	-11.00000	13.00000	19.50000	-0.066501	19.083	0.0	0.0
	-10.00000	13.00000	19.50000	-0.16338	19.083	0.0	0.0
	-9.00000	13.00000	19.50000	-0.28690	19.083	0.0	0.0
	-8.00000	13.00000	19.50000	-0.44426	19.083	0.0	0.0
	-7.00000	13.00000	19.50000	-0.64487	19.083	0.0	0.0
	-6.00000	13.00000	19.50000	-0.90146	19.083	0.0	0.0
	-5.00000	13.00000	19.50000	-1.2317	19.083	0.0	0.0
	-4.00000	13.00000	19.50000	-1.6611	19.083	0.0	0.0
	-3.00000	13.00000	19.50000	-2.2297	19.083	0.0	0.0
	-2.00000	13.00000	19.50000	-3.0082	19.083	0.0	0.0
	-1.00000	13.00000	19.50000	-4.11541	19.083	0.0	0.0
	0.00000	13.00000	19.50000	-6.2305	19.083	0.0	0.0
	1.00000	13.00000	19.50000	-8.3064	19.083	0.0	0.0
	2.00000	13.00000	19.50000	-9.4507	19.083	0.0	0.0
	3.00000	13.00000	19.50000	-10.227	19.083	0.0	0.0
	4.00000	13.00000	19.50000	-10.791	19.083	0.0	0.0
	5.00000	13.00000	19.50000	-11.215	19.083	0.0	0.0
	6.00000	13.00000	19.50000	-11.538	19.083	0.0	0.0
	7.00000	13.00000	19.50000	-11.786	19.083	0.0	0.0
	8.00000	13.00000	19.50000	-11.975	19.083	0.0	0.0
	9.00000	13.00000	19.50000	-12.117	19.083	0.0	0.0
	10.00000	13.00000	19.50000	-12.223	19.083	0.0	0.0
	11.00000	13.00000	19.50000	-12.297	19.083	0.0	0.0
	12.00000	13.00000	19.50000	-12.345	19.083	0.0	0.0
	13.00000	13.00000	19.50000	-12.370	19.083	0.0	0.0
	14.00000	13.00000	19.50000	-12.373	19.083	0.0	0.0
	15.00000	13.00000	19.50000	-12.356	19.083	0.0	0.0
	16.00000	13.00000	19.50000	-12.318	19.083	0.0	0.0
	17.00000	13.00000	19.50000	-12.254	19.083	0.0	0.0
	18.00000	13.00000	19.50000	-12.157	19.083	0.0	0.0
	19.00000	13.00000	19.50000	-11.992	19.083	0.0	0.0
	20.00000	13.00000	19.50000	-11.862	19.083	0.0	0.0
	21.00000	13.00000	19.50000	-11.722	19.083	0.0	0.0
	22.00000	13.00000	19.50000	-11.522	19.083	0.0	0.0
	23.00000	13.00000	19.50000	-11.365	19.083	0.0	0.0
	24.00000	13.00000	19.50000	-11.214	19.083	0.0	0.0
	25.00000	13.00000	19.50000	-11.053	19.083	0.0	0.0
	26.00000	13.00000	19.50000	-10.873	19.083	0.0	0.0
	27.00000	13.00000	19.50000	-10.664	19.083	0.0	0.0
	28.00000	13.00000	19.50000	-10.410	19.083	0.0	0.0
	29.00000	13.00000	19.50000	-10.097	19.083	0.0	0.0
	30.00000	13.00000	19.50000	-9.6995	19.083	0.0	0.0
	31.00000	13.00000	19.50000	-9.1812	19.083	0.0	0.0
	32.00000	13.00000	19.50000	-8.4807	19.083	0.0	0.0
	33.00000	13.00000	19.50000	-7.4733	19.083	0.0	0.0
	34.00000	13.00000	19.50000	-5.4916	19.083	0.0	0.0
	35.00000	13.00000	19.50000	-3.5122	19.083	0.0	0.0
	36.00000	13.00000	19.50000	-2.5114	19.083	0.0	0.0
	37.00000	13.00000	19.50000	-1.8223	19.083	0.0	0.0
	38.00000	13.00000	19.50000	-1.3201	19.083	0.0	0.0
	39.00000	13.00000	19.50000	-0.94387	19.083	0.0	0.0
	40.00000	13.00000	19.50000	-0.65760	19.083	0.0	0.0
	41.00000	13.00000	19.50000	-0.43790	19.083	0.0	0.0
	42.00000	13.00000	19.50000	-0.26849	19.083	0.0	0.0
	43.00000	13.00000	19.50000	-0.13765	19.083	0.0	0.0
	44.00000	13.00000	19.50000	-0.036679	19.083	0.0	0.0
	45.00000	13.00000	19.50000	0.040971	19.083	0.0	0.0
	46.00000	13.00000	19.50000	0.10032	19.083	0.0	0.0
	47.00000	13.00000	19.50000	0.14524	19.083	0.0	0.0
	48.00000	13.00000	19.50000	0.17875	19.083	0.0	0.0
	49.00000	13.00000	19.50000	0.20325	19.083	0.0	0.0
	50.00000	13.00000	19.50000	0.22060	19.083	0.0	0.0
	51.00000	13.00000	19.50000	0.23230	19.083	0.0	0.0
	52.00000	13.00000	19.50000	0.23954	19.083	0.0	0.0
	53.00000	13.00000	19.50000	0.24327	19.083	0.0	0.0
	54.00000	13.00000	19.50000	0.24425	19.083	0.0	0.0
	55.00000	13.00000	19.50000	0.24308	19.083	0.0	0.0
	-25.00000	14.00000	19.50000	0.21826	19.083	0.0	0.0
	-24.00000	14.00000	19.50000	0.22185	19.083	0.0	0.0
	-23.00000	14.00000	19.50000	0.22439	19.083	0.0	0.0
	-22.00000	14.00000	19.50000	0.22556	19.083	0.0	0.0
	-21.00000	14.00000	19.50000	0.22497	19.083	0.0	0.0
	-20.00000	14.00000	19.50000	0.22216	19.083	0.0	0.0
	-19.00000	14.00000	19.50000	0.21653	19.083	0.0	0.0
	-18.00000	14.00000	19.50000	0.20737	19.083	0.0	0.0
	-17.00000	14.00000	19.50000	0.19379	19.083	0.0	0.0
	-16.00000	14.00000	19.50000	0.17468	19.083	0.0	0.0
	-15.00000	14.00000	19.50000	0.14867	19.083	0.0	0.0
	-14.00000	14.00000	19.50000	0.11407	19.083	0.0	0.0
	-13.00000	14.00000	19.50000	0.068726	19.083	0.0	0.0
	-12.00000	14.00000	19.50000	0.0091795	19.083	0.0	0.0
	-11.00000	14.00000	19.50000	-0.065553	19.083	0.0	0.0
	-10.00000	14.00000	19.50000	-0.16217	19.083	0.0	0.0
	-9.00000	14.00000	19.50000	-0.28539	19.083	0.0	0.0
	-8.00000	14.00000	19.50000	-0.44237	19.083	0.0	0.0
	-7.00000	14.00000	19.50000	-0.64255	19.083	0.0	0.0
	-6.00000	14.00000	19.50000	-0.89864	19.083	0.0	0.0
	-5.00000	14.00000	19.50000	-1.2282	19.083	0.0	0.0
	-4.00000	14.00000	19.50000	-1.6570	19.083	0.0	0.0
	-3.00000	14.00000	19.50000	-2.2249	19.083	0.0	0.0
	-2.00000	14.00000	19.50000	-3.0027	19.083	0.0	0.0
	-1.00000	14.00000	19.50000	-4.1477	19.083	0.0	0.0
	0.00000	14.00000	19.50000	-6.2233	19.083	0.0	0.0
	1.00000	14.00000	19.50000	-8.2983	19.083	0.0	0.0
	2.00000	14.00000	19.50000	-9.4418	19.083	0.0	0.0
	3.00000	14.00000	19.50000	-10.217	19.083	0.0	0.0
	4.00000	14.00000	19.50000	-10.781	19.083	0.0	0.0
	5.00000	14.00000	19.50000	-11.204	19.083	0.0	0.0
	6.00000	14.00000	19.50000	-11.527	19.083	0.0	0.0
	7.00000	14.00000	19.50000	-11.774	19.083	0.0	0.0
	8.00000	14.00000	19.50000	-11.962	19.083	0.0	0.0
	9.00000	14.00000	19.50				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses			
X [m]	Y [m]	Z[Level] [mm]	Calc Level [MOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
13.00000	14.00000	19.50000	-12.357	19.083	0.0	0.0
14.00000	14.00000	19.50000	-12.360	19.083	0.0	0.0
15.00000	14.00000	19.50000	-12.343	19.083	0.0	0.0
16.00000	14.00000	19.50000	-12.304	19.083	0.0	0.0
17.00000	14.00000	19.50000	-12.241	19.083	0.0	0.0
18.00000	14.00000	19.50000	-12.143	19.083	0.0	0.0
19.00000	14.00000	19.50000	-11.979	19.083	0.0	0.0
20.00000	14.00000	19.50000	-11.850	19.083	0.0	0.0
21.00000	14.00000	19.50000	-11.709	19.083	0.0	0.0
22.00000	14.00000	19.50000	-11.510	19.083	0.0	0.0
23.00000	14.00000	19.50000	-11.353	19.083	0.0	0.0
24.00000	14.00000	19.50000	-11.202	19.083	0.0	0.0
25.00000	14.00000	19.50000	-11.042	19.083	0.0	0.0
26.00000	14.00000	19.50000	-10.862	19.083	0.0	0.0
27.00000	14.00000	19.50000	-10.653	19.083	0.0	0.0
28.00000	14.00000	19.50000	-10.400	19.083	0.0	0.0
29.00000	14.00000	19.50000	-10.088	19.083	0.0	0.0
30.00000	14.00000	19.50000	-9.6906	19.083	0.0	0.0
31.00000	14.00000	19.50000	-9.1730	19.083	0.0	0.0
32.00000	14.00000	19.50000	-8.4732	19.083	0.0	0.0
33.00000	14.00000	19.50000	-7.4665	19.083	0.0	0.0
34.00000	14.00000	19.50000	-5.4856	19.083	0.0	0.0
35.00000	14.00000	19.50000	-3.5069	19.083	0.0	0.0
36.00000	14.00000	19.50000	-2.5068	19.083	0.0	0.0
37.00000	14.00000	19.50000	-1.8184	19.083	0.0	0.0
38.00000	14.00000	19.50000	-1.3116	19.083	0.0	0.0
39.00000	14.00000	19.50000	-0.94113	19.083	0.0	0.0
40.00000	14.00000	19.50000	-0.65536	19.083	0.0	0.0
41.00000	14.00000	19.50000	-0.43608	19.083	0.0	0.0
42.00000	14.00000	19.50000	-0.26704	19.083	0.0	0.0
43.00000	14.00000	19.50000	-0.13650	19.083	0.0	0.0
44.00000	14.00000	19.50000	-0.035787	19.083	0.0	0.0
45.00000	14.00000	19.50000	0.041654	19.083	0.0	0.0
46.00000	14.00000	19.50000	0.10083	19.083	0.0	0.0
47.00000	14.00000	19.50000	0.14561	19.083	0.0	0.0
48.00000	14.00000	19.50000	0.17902	19.083	0.0	0.0
49.00000	14.00000	19.50000	0.20343	19.083	0.0	0.0
50.00000	14.00000	19.50000	0.22071	19.083	0.0	0.0
51.00000	14.00000	19.50000	0.23236	19.083	0.0	0.0
52.00000	14.00000	19.50000	0.23956	19.083	0.0	0.0
53.00000	14.00000	19.50000	0.24326	19.083	0.0	0.0
54.00000	14.00000	19.50000	0.24421	19.083	0.0	0.0
55.00000	14.00000	19.50000	0.24303	19.083	0.0	0.0
-25.00000	15.00000	19.50000	0.21808	19.083	0.0	0.0
-24.00000	15.00000	19.50000	0.22169	19.083	0.0	0.0
-23.00000	15.00000	19.50000	0.22426	19.083	0.0	0.0
-22.00000	15.00000	19.50000	0.22547	19.083	0.0	0.0
-21.00000	15.00000	19.50000	0.22495	19.083	0.0	0.0
-20.00000	15.00000	19.50000	0.22221	19.083	0.0	0.0
-19.00000	15.00000	19.50000	0.21669	19.083	0.0	0.0
-18.00000	15.00000	19.50000	0.20766	19.083	0.0	0.0
-17.00000	15.00000	19.50000	0.19424	19.083	0.0	0.0
-16.00000	15.00000	19.50000	0.17535	19.083	0.0	0.0
-15.00000	15.00000	19.50000	0.14961	19.083	0.0	0.0
-14.00000	15.00000	19.50000	0.11534	19.083	0.0	0.0
-13.00000	15.00000	19.50000	0.070177	19.083	0.0	0.0
-12.00000	15.00000	19.50000	0.012189	19.083	0.0	0.0
-11.00000	15.00000	19.50000	-0.062708	19.083	0.0	0.0
-10.00000	15.00000	19.50000	-0.15855	19.083	0.0	0.0
-9.00000	15.00000	19.50000	-0.28083	19.083	0.0	0.0
-8.00000	15.00000	19.50000	-0.43669	19.083	0.0	0.0
-7.00000	15.00000	19.50000	-0.63555	19.083	0.0	0.0
-6.00000	15.00000	19.50000	-0.89009	19.083	0.0	0.0
-5.00000	15.00000	19.50000	-1.2179	19.083	0.0	0.0
-4.00000	15.00000	19.50000	-1.6447	19.083	0.0	0.0
-3.00000	15.00000	19.50000	-2.2104	19.083	0.0	0.0
-2.00000	15.00000	19.50000	-2.9858	19.083	0.0	0.0
-1.00000	15.00000	19.50000	-4.1283	19.083	0.0	0.0
0.00000	15.00000	19.50000	-6.2013	19.083	0.0	0.0
1.00000	15.00000	19.50000	-8.2738	19.083	0.0	0.0
2.00000	15.00000	19.50000	-9.4248	19.083	0.0	0.0
3.00000	15.00000	19.50000	-10.188	19.083	0.0	0.0
4.00000	15.00000	19.50000	-10.749	19.083	0.0	0.0
5.00000	15.00000	19.50000	-11.171	19.083	0.0	0.0
6.00000	15.00000	19.50000	-11.491	19.083	0.0	0.0
7.00000	15.00000	19.50000	-11.717	19.083	0.0	0.0
8.00000	15.00000	19.50000	-11.924	19.083	0.0	0.0
9.00000	15.00000	19.50000	-12.066	19.083	0.0	0.0
10.00000	15.00000	19.50000	-12.170	19.083	0.0	0.0
11.00000	15.00000	19.50000	-12.244	19.083	0.0	0.0
12.00000	15.00000	19.50000	-12.291	19.083	0.0	0.0
13.00000	15.00000	19.50000	-12.316	19.083	0.0	0.0
14.00000	15.00000	19.50000	-12.319	19.083	0.0	0.0
15.00000	15.00000	19.50000	-12.302	19.083	0.0	0.0
16.00000	15.00000	19.50000	-12.264	19.083	0.0	0.0
17.00000	15.00000	19.50000	-12.201	19.083	0.0	0.0
18.00000	15.00000	19.50000	-12.103	19.083	0.0	0.0
19.00000	15.00000	19.50000	-11.939	19.083	0.0	0.0
20.00000	15.00000	19.50000	-11.811	19.083	0.0	0.0
21.00000	15.00000	19.50000	-11.671	19.083	0.0	0.0
22.00000	15.00000	19.50000	-11.473	19.083	0.0	0.0
23.00000	15.00000	19.50000	-11.316	19.083	0.0	0.0
24.00000	15.00000	19.50000	-11.166	19.083	0.0	0.0
25.00000	15.00000	19.50000	-11.007	19.083	0.0	0.0
26.00000	15.00000	19.50000	-10.829	19.083	0.0	0.0
27.00000	15.00000	19.50000	-10.621	19.083	0.0	0.0
28.00000	15.00000	19.50000	-10.370	19.083	0.0	0.0
29.00000	15.00000	19.50000	-10.059	19.083	0.0	0.0
30.00000	15.00000	19.50000	-9.6635	19.083	0.0	0.0
31.00000	15.00000	19.50000	-9.1479	19.083	0.0	0.0
32.00000	15.00000	19.50000	-8.4503	19.083	0.0	0.0
33.00000	15.00000	19.50000	-7.4458	19.083	0.0	0.0
34.00000	15.00000	19.50000	-5.4672	19.083	0.0	0.0
35.00000	15.00000	19.50000	-3.4907	19.083	0.0	0.0
36.00000	15.00000	19.50000	-2.4929	19.083	0.0	0.0
37.00000	15.00000	19.50000	-1.8065	19.083	0.0	0.0
38.00000	15.00000	19.50000	-1.3068	19.083	0.0	0.0
39.00000	15.00000	19.50000	-0.93282	19.083	0.0	0.0
40.00000	15.00000	19.50000	-0.64855	19.083	0.0	0.0
41.00000	15.00000	19.50000	-0.43058	19.083	0.0	0.0
42.00000	15.00000	19.50000	-0.26265	19.083	0.0	0.0
43.00000	15.00000	19.50000	-0.13305	19.083	0.0	0.0
44.00000	15.00000	19.50000	-0.033103	19.083	0.0	0.0
45.00000	15.00000	19.50000	0.043705	19.083	0.0	0.0
46.00000	15.00000	19.50000	0.10237	19.083	0.0	0.0
47.00000	15.00000	19.50000	0.14673	19.083	0.0	0.0
48.00000	15.00000	19.50000	0.17981	19.083	0.0	0.0
49.00000	15.00000	19.50000	0.20396	19.083	0.0	0.0
50.00000	15.00000	19.50000	0.22104	19.083	0.0	0.0
51.00000	15.00000	19.50000	0.23253	19.083	0.0	0.0
52.00000	15.00000	19.50000	0.23961	19.083	0.0	0.0
53.00000	15.00000	19.50000	0.24321	19.083	0.0	0.0
54.00000	15.00000	19.50000	0.24410	19.083	0.0	0.0
55.00000	15.00000	19.50000	0.24286	19.083	0.0	0.0
-25.00000	16.00000	19.50000	0.21778	19.083	0.0	0.0
-24.00000	16.00000	19.50000	0.22143	19.083	0.0	0.0
-23.00000	16.00000	19.50000	0.22405	19.083	0.0	0.0
-22.00000	16.00000	19.50000	0.22533	19.083	0.0	0.0
-21.00000	16.00000	19.50000	0.22490	19.083	0.0	0.0
-20.00000	16.00000	19.50000	0.22229	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-19.00000	16.00000	19.50000	0.21694	19.083	0.0	0.0
	-18.00000	16.00000	19.50000	0.20813	19.083	0.0	0.0
	-17.00000	16.00000	19.50000	0.19499	19.083	0.0	0.0
	-16.00000	16.00000	19.50000	0.17645	19.083	0.0	0.0
	-15.00000	16.00000	19.50000	0.15116	19.083	0.0	0.0
	-14.00000	16.00000	19.50000	0.11745	19.083	0.0	0.0
	-13.00000	16.00000	19.50000	0.073228	19.083	0.0	0.0
	-12.00000	16.00000	19.50000	0.015867	19.083	0.0	0.0
	-11.00000	16.00000	19.50000	-0.057962	19.083	0.0	0.0
	-10.00000	16.00000	19.50000	-0.15250	19.083	0.0	0.0
	-9.00000	16.00000	19.50000	-0.27320	19.083	0.0	0.0
	-8.00000	16.00000	19.50000	-0.42716	19.083	0.0	0.0
	-7.00000	16.00000	19.50000	-0.62376	19.083	0.0	0.0
	-6.00000	16.00000	19.50000	-0.87566	19.083	0.0	0.0
	-5.00000	16.00000	19.50000	-1.2004	19.083	0.0	0.0
	-4.00000	16.00000	19.50000	-1.6237	19.083	0.0	0.0
	-3.00000	16.00000	19.50000	-2.1856	19.083	0.0	0.0
	-2.00000	16.00000	19.50000	-2.9568	19.083	0.0	0.0
	-1.00000	16.00000	19.50000	-4.0950	19.083	0.0	0.0
	0.00000	16.00000	19.50000	-6.1635	19.083	0.0	0.0
	1.00000	16.00000	19.50000	-8.2315	19.083	0.0	0.0
	2.00000	16.00000	19.50000	-9.3681	19.083	0.0	0.0
	3.00000	16.00000	19.50000	-10.137	19.083	0.0	0.0
	4.00000	16.00000	19.50000	-10.695	19.083	0.0	0.0
	5.00000	16.00000	19.50000	-11.113	19.083	0.0	0.0
	6.00000	16.00000	19.50000	-11.431	19.083	0.0	0.0
	7.00000	16.00000	19.50000	-11.674	19.083	0.0	0.0
	8.00000	16.00000	19.50000	-11.859	19.083	0.0	0.0
	9.00000	16.00000	19.50000	-11.999	19.083	0.0	0.0
	10.00000	16.00000	19.50000	-12.102	19.083	0.0	0.0
	11.00000	16.00000	19.50000	-12.175	19.083	0.0	0.0
	12.00000	16.00000	19.50000	-12.221	19.083	0.0	0.0
	13.00000	16.00000	19.50000	-12.245	19.083	0.0	0.0
	14.00000	16.00000	19.50000	-12.249	19.083	0.0	0.0
	15.00000	16.00000	19.50000	-12.232	19.083	0.0	0.0
	16.00000	16.00000	19.50000	-12.193	19.083	0.0	0.0
	17.00000	16.00000	19.50000	-12.131	19.083	0.0	0.0
	18.00000	16.00000	19.50000	-12.034	19.083	0.0	0.0
	19.00000	16.00000	19.50000	-11.871	19.083	0.0	0.0
	20.00000	16.00000	19.50000	-11.743	19.083	0.0	0.0
	21.00000	16.00000	19.50000	-11.605	19.083	0.0	0.0
	22.00000	16.00000	19.50000	-11.408	19.083	0.0	0.0
	23.00000	16.00000	19.50000	-11.253	19.083	0.0	0.0
	24.00000	16.00000	19.50000	-11.104	19.083	0.0	0.0
	25.00000	16.00000	19.50000	-10.947	19.083	0.0	0.0
	26.00000	16.00000	19.50000	-10.771	19.083	0.0	0.0
	27.00000	16.00000	19.50000	-10.565	19.083	0.0	0.0
	28.00000	16.00000	19.50000	-10.317	19.083	0.0	0.0
	29.00000	16.00000	19.50000	-10.009	19.083	0.0	0.0
	30.00000	16.00000	19.50000	-9.6166	19.083	0.0	0.0
	31.00000	16.00000	19.50000	-9.1044	19.083	0.0	0.0
	32.00000	16.00000	19.50000	-8.4106	19.083	0.0	0.0
	33.00000	16.00000	19.50000	-7.4100	19.083	0.0	0.0
	34.00000	16.00000	19.50000	-5.4353	19.083	0.0	0.0
	35.00000	16.00000	19.50000	-3.4629	19.083	0.0	0.0
	36.00000	16.00000	19.50000	-2.4669	19.083	0.0	0.0
	37.00000	16.00000	19.50000	-1.7861	19.083	0.0	0.0
	38.00000	16.00000	19.50000	-1.2897	19.083	0.0	0.0
	39.00000	16.00000	19.50000	-0.91870	19.083	0.0	0.0
	40.00000	16.00000	19.50000	-0.63704	19.083	0.0	0.0
	41.00000	16.00000	19.50000	-0.42131	19.083	0.0	0.0
	42.00000	16.00000	19.50000	-0.25527	19.083	0.0	0.0
	43.00000	16.00000	19.50000	-0.12725	19.083	0.0	0.0
	44.00000	16.00000	19.50000	-0.028609	19.083	0.0	0.0
	45.00000	16.00000	19.50000	0.047132	19.083	0.0	0.0
	46.00000	16.00000	19.50000	0.10493	19.083	0.0	0.0
	47.00000	16.00000	19.50000	0.14861	19.083	0.0	0.0
	48.00000	16.00000	19.50000	0.18113	19.083	0.0	0.0
	49.00000	16.00000	19.50000	0.20485	19.083	0.0	0.0
	50.00000	16.00000	19.50000	0.22159	19.083	0.0	0.0
	51.00000	16.00000	19.50000	0.23281	19.083	0.0	0.0
	52.00000	16.00000	19.50000	0.23969	19.083	0.0	0.0
	53.00000	16.00000	19.50000	0.24314	19.083	0.0	0.0
	54.00000	16.00000	19.50000	0.24391	19.083	0.0	0.0
	55.00000	16.00000	19.50000	0.24259	19.083	0.0	0.0
	-25.00000	17.00000	19.50000	0.21735	19.083	0.0	0.0
	-24.00000	17.00000	19.50000	0.22105	19.083	0.0	0.0
	-23.00000	17.00000	19.50000	0.22374	19.083	0.0	0.0
	-22.00000	17.00000	19.50000	0.22513	19.083	0.0	0.0
	-21.00000	17.00000	19.50000	0.22483	19.083	0.0	0.0
	-20.00000	17.00000	19.50000	0.22240	19.083	0.0	0.0
	-19.00000	17.00000	19.50000	0.21728	19.083	0.0	0.0
	-18.00000	17.00000	19.50000	0.20877	19.083	0.0	0.0
	-17.00000	17.00000	19.50000	0.19602	19.083	0.0	0.0
	-16.00000	17.00000	19.50000	0.17797	19.083	0.0	0.0
	-15.00000	17.00000	19.50000	0.15331	19.083	0.0	0.0
	-14.00000	17.00000	19.50000	0.12038	19.083	0.0	0.0
	-13.00000	17.00000	19.50000	0.077145	19.083	0.0	0.0
	-12.00000	17.00000	19.50000	0.021005	19.083	0.0	0.0
	-11.00000	17.00000	19.50000	-0.051315	19.083	0.0	0.0
	-10.00000	17.00000	19.50000	-0.14400	19.083	0.0	0.0
	-9.00000	17.00000	19.50000	-0.26244	19.083	0.0	0.0
	-8.00000	17.00000	19.50000	-0.41368	19.083	0.0	0.0
	-7.00000	17.00000	19.50000	-0.60702	19.083	0.0	0.0
	-6.00000	17.00000	19.50000	-0.85506	19.083	0.0	0.0
	-5.00000	17.00000	19.50000	-1.1754	19.083	0.0	0.0
	-4.00000	17.00000	19.50000	-1.5936	19.083	0.0	0.0
	-3.00000	17.00000	19.50000	-2.1497	19.083	0.0	0.0
	-2.00000	17.00000	19.50000	-2.9147	19.083	0.0	0.0
	-1.00000	17.00000	19.50000	-4.0462	19.083	0.0	0.0
	0.00000	17.00000	19.50000	-6.1079	19.083	0.0	0.0
	1.00000	17.00000	19.50000	-8.1691	19.083	0.0	0.0
	2.00000	17.00000	19.50000	-9.2992	19.083	0.0	0.0
	3.00000	17.00000	19.50000	-10.062	19.083	0.0	0.0
	4.00000	17.00000	19.50000	-10.614	19.083	0.0	0.0
	5.00000	17.00000	19.50000	-11.027	19.083	0.0	0.0
	6.00000	17.00000	19.50000	-11.341	19.083	0.0	0.0
	7.00000	17.00000	19.50000	-11.580	19.083	0.0	0.0
	8.00000	17.00000	19.50000	-11.762	19.083	0.0	0.0
	9.00000	17.00000	19.50000	-11.900	19.083	0.0	0.0
	10.00000	17.00000	19.50000	-12.001	19.083	0.0	0.0
	11.00000	17.00000	19.50000	-12.072	19.083	0.0	0.0
	12.00000	17.00000	19.50000	-12.118	19.083	0.0	0.0
	13.00000	17.00000	19.50000	-12.142	19.083	0.0	0.0
	14.00000	17.00000	19.50000	-12.145	19.083	0.0	0.0
	15.00000	17.00000	19.50000	-12.128	19.083	0.0	0.0
	16.00000	17.00000	19.50000	-12.090	19.083	0.0	0.0
	17.00000	17.00000	19.50000	-12.028	19.083	0.0	0.0
	18.00000	17.00000	19.50000	-11.933	19.083	0.0	0.0
	19.00000	17.00000	19.50000	-11.770	19.083	0.0	0.0
	20.00000	17.00000	19.50000	-11.644	19.083	0.0	0.0
	21.00000	17.00000	19.50000	-11.507	19.083	0.0	0.0
	22.00000	17.00000	19.50000	-11.312	19.083	0.0	0.0
	23.00000	17.00000	19.50000	-11.159	19.083	0.0	0.0
	24.00000	17.00000	19.50000	-11.013	19.083	0.0	0.0
	25.00000	17.00000	19.50000	-10.858	19.083	0.0	0.0
	26.00000	17.00000	19.50000	-10.685	19.083	0.0	0.0
	27.00000	17.00000	19.50000	-10.483	19.083	0.0	0.0
	28.00000	17.00000	19.50000	-10.238	19.083	0.0	0.0
	29.00000	17.00000	19.50000	-9.9341	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location			Displacement		Stresses		
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	30.00000	17.00000	19.50000	-9.5469	19.083	0.0	0.0	0.0
	31.00000	17.00000	19.50000	-9.0399	19.083	0.0	0.0	0.0
	32.00000	17.00000	19.50000	-8.3517	19.083	0.0	0.0	0.0
	33.00000	17.00000	19.50000	-7.3570	19.083	0.0	0.0	0.0
	34.00000	17.00000	19.50000	-5.3884	19.083	0.0	0.0	0.0
	35.00000	17.00000	19.50000	-3.4220	19.083	0.0	0.0	0.0
	36.00000	17.00000	19.50000	-2.4338	19.083	0.0	0.0	0.0
	37.00000	17.00000	19.50000	-1.7564	19.083	0.0	0.0	0.0
	38.00000	17.00000	19.50000	-1.2650	19.083	0.0	0.0	0.0
	39.00000	17.00000	19.50000	-0.89840	19.083	0.0	0.0	0.0
	40.00000	17.00000	19.50000	-0.62056	19.083	0.0	0.0	0.0
	41.00000	17.00000	19.50000	-0.40809	19.083	0.0	0.0	0.0
	42.00000	17.00000	19.50000	-0.24480	19.083	0.0	0.0	0.0
	43.00000	17.00000	19.50000	-0.11905	19.083	0.0	0.0	0.0
	44.00000	17.00000	19.50000	-0.022283	19.083	0.0	0.0	0.0
	45.00000	17.00000	19.50000	0.051942	19.083	0.0	0.0	0.0
	46.00000	17.00000	19.50000	0.10852	19.083	0.0	0.0	0.0
	47.00000	17.00000	19.50000	0.15122	19.083	0.0	0.0	0.0
	48.00000	17.00000	19.50000	0.18297	19.083	0.0	0.0	0.0
	49.00000	17.00000	19.50000	0.20608	19.083	0.0	0.0	0.0
	50.00000	17.00000	19.50000	0.22234	19.083	0.0	0.0	0.0
	51.00000	17.00000	19.50000	0.23320	19.083	0.0	0.0	0.0
	52.00000	17.00000	19.50000	0.23979	19.083	0.0	0.0	0.0
	53.00000	17.00000	19.50000	0.24303	19.083	0.0	0.0	0.0
	54.00000	17.00000	19.50000	0.24364	19.083	0.0	0.0	0.0
	55.00000	17.00000	19.50000	0.24221	19.083	0.0	0.0	0.0
	-25.00000	18.00000	19.50000	0.21680	19.083	0.0	0.0	0.0
	-24.00000	18.00000	19.50000	0.22057	19.083	0.0	0.0	0.0
	-23.00000	18.00000	19.50000	0.22335	19.083	0.0	0.0	0.0
	-22.00000	18.00000	19.50000	0.22486	19.083	0.0	0.0	0.0
	-21.00000	18.00000	19.50000	0.22473	19.083	0.0	0.0	0.0
	-20.00000	18.00000	19.50000	0.22253	19.083	0.0	0.0	0.0
	-19.00000	18.00000	19.50000	0.21770	19.083	0.0	0.0	0.0
	-18.00000	18.00000	19.50000	0.20958	19.083	0.0	0.0	0.0
	-17.00000	18.00000	19.50000	0.19733	19.083	0.0	0.0	0.0
	-16.00000	18.00000	19.50000	0.17791	19.083	0.0	0.0	0.0
	-15.00000	18.00000	19.50000	0.15604	19.083	0.0	0.0	0.0
	-14.00000	18.00000	19.50000	0.12412	19.083	0.0	0.0	0.0
	-13.00000	18.00000	19.50000	0.082144	19.083	0.0	0.0	0.0
	-12.00000	18.00000	19.50000	0.027582	19.083	0.0	0.0	0.0
	-11.00000	18.00000	19.50000	-0.042778	19.083	0.0	0.0	0.0
	-10.00000	18.00000	19.50000	-0.13304	19.083	0.0	0.0	0.0
	-9.00000	18.00000	19.50000	-0.24851	19.083	0.0	0.0	0.0
	-8.00000	18.00000	19.50000	-0.39613	19.083	0.0	0.0	0.0
	-7.00000	18.00000	19.50000	-0.58511	19.083	0.0	0.0	0.0
	-6.00000	18.00000	19.50000	-0.82795	19.083	0.0	0.0	0.0
	-5.00000	18.00000	19.50000	-1.1421	19.083	0.0	0.0	0.0
	-4.00000	18.00000	19.50000	-1.5533	19.083	0.0	0.0	0.0
	-3.00000	18.00000	19.50000	-2.1014	19.083	0.0	0.0	0.0
	-2.00000	18.00000	19.50000	-2.8576	19.083	0.0	0.0	0.0
	-1.00000	18.00000	19.50000	-3.9797	19.083	0.0	0.0	0.0
	0.00000	18.00000	19.50000	-6.0317	19.083	0.0	0.0	0.0
	1.00000	18.00000	19.50000	-8.0831	19.083	0.0	0.0	0.0
	2.00000	18.00000	19.50000	-9.2039	19.083	0.0	0.0	0.0
	3.00000	18.00000	19.50000	-9.9576	19.083	0.0	0.0	0.0
	4.00000	18.00000	19.50000	-10.502	19.083	0.0	0.0	0.0
	5.00000	18.00000	19.50000	-10.908	19.083	0.0	0.0	0.0
	6.00000	18.00000	19.50000	-11.216	19.083	0.0	0.0	0.0
	7.00000	18.00000	19.50000	-11.450	19.083	0.0	0.0	0.0
	8.00000	18.00000	19.50000	-11.629	19.083	0.0	0.0	0.0
	9.00000	18.00000	19.50000	-11.763	19.083	0.0	0.0	0.0
	10.00000	18.00000	19.50000	-11.862	19.083	0.0	0.0	0.0
	11.00000	18.00000	19.50000	-11.931	19.083	0.0	0.0	0.0
	12.00000	18.00000	19.50000	-11.976	19.083	0.0	0.0	0.0
	13.00000	18.00000	19.50000	-11.999	19.083	0.0	0.0	0.0
	14.00000	18.00000	19.50000	-12.001	19.083	0.0	0.0	0.0
	15.00000	18.00000	19.50000	-11.985	19.083	0.0	0.0	0.0
	16.00000	18.00000	19.50000	-11.947	19.083	0.0	0.0	0.0
	17.00000	18.00000	19.50000	-11.887	19.083	0.0	0.0	0.0
	18.00000	18.00000	19.50000	-11.792	19.083	0.0	0.0	0.0
	19.00000	18.00000	19.50000	-11.632	19.083	0.0	0.0	0.0
	20.00000	18.00000	19.50000	-11.507	19.083	0.0	0.0	0.0
	21.00000	18.00000	19.50000	-11.373	19.083	0.0	0.0	0.0
	22.00000	18.00000	19.50000	-11.180	19.083	0.0	0.0	0.0
	23.00000	18.00000	19.50000	-11.030	19.083	0.0	0.0	0.0
	24.00000	18.00000	19.50000	-10.887	19.083	0.0	0.0	0.0
	25.00000	18.00000	19.50000	-10.736	19.083	0.0	0.0	0.0
	26.00000	18.00000	19.50000	-10.566	19.083	0.0	0.0	0.0
	27.00000	18.00000	19.50000	-10.368	19.083	0.0	0.0	0.0
	28.00000	18.00000	19.50000	-10.129	19.083	0.0	0.0	0.0
	29.00000	18.00000	19.50000	-9.8306	19.083	0.0	0.0	0.0
	30.00000	18.00000	19.50000	-9.4499	19.083	0.0	0.0	0.0
	31.00000	18.00000	19.50000	-8.9502	19.083	0.0	0.0	0.0
	32.00000	18.00000	19.50000	-8.2699	19.083	0.0	0.0	0.0
	33.00000	18.00000	19.50000	-7.2837	19.083	0.0	0.0	0.0
	34.00000	18.00000	19.50000	-5.3237	19.083	0.0	0.0	0.0
	35.00000	18.00000	19.50000	-3.3659	19.083	0.0	0.0	0.0
	36.00000	18.00000	19.50000	-2.3860	19.083	0.0	0.0	0.0
	37.00000	18.00000	19.50000	-1.7163	19.083	0.0	0.0	0.0
	38.00000	18.00000	19.50000	-1.2319	19.083	0.0	0.0	0.0
	39.00000	18.00000	19.50000	-0.87136	19.083	0.0	0.0	0.0
	40.00000	18.00000	19.50000	-0.59877	19.083	0.0	0.0	0.0
	41.00000	18.00000	19.50000	-0.39073	19.083	0.0	0.0	0.0
	42.00000	18.00000	19.50000	-0.23113	19.083	0.0	0.0	0.0
	43.00000	18.00000	19.50000	-0.10841	19.083	0.0	0.0	0.0
	44.00000	18.00000	19.50000	-0.014102	19.083	0.0	0.0	0.0
	45.00000	18.00000	19.50000	0.058136	19.083	0.0	0.0	0.0
	46.00000	18.00000	19.50000	0.11312	19.083	0.0	0.0	0.0
	47.00000	18.00000	19.50000	0.15456	19.083	0.0	0.0	0.0
	48.00000	18.00000	19.50000	0.18531	19.083	0.0	0.0	0.0
	49.00000	18.00000	19.50000	0.20764	19.083	0.0	0.0	0.0
	50.00000	18.00000	19.50000	0.22329	19.083	0.0	0.0	0.0
	51.00000	18.00000	19.50000	0.23368	19.083	0.0	0.0	0.0
	52.00000	18.00000	19.50000	0.23991	19.083	0.0	0.0	0.0
	53.00000	18.00000	19.50000	0.24288	19.083	0.0	0.0	0.0
	54.00000	18.00000	19.50000	0.24329	19.083	0.0	0.0	0.0
	55.00000	18.00000	19.50000	0.24171	19.083	0.0	0.0	0.0
	-25.00000	19.00000	19.50000	0.21613	19.083	0.0	0.0	0.0
	-24.00000	19.00000	19.50000	0.21997	19.083	0.0	0.0	0.0
	-23.00000	19.00000	19.50000	0.22286	19.083	0.0	0.0	0.0
	-22.00000	19.00000	19.50000	0.22452	19.083	0.0	0.0	0.0
	-21.00000	19.00000	19.50000	0.22460	19.083	0.0	0.0	0.0
	-20.00000	19.00000	19.50000	0.22266	19.083	0.0	0.0	0.0
	-19.00000	19.00000	19.50000	0.21819	19.083	0.0	0.0	0.0
	-18.00000	19.00000	19.50000	0.21053	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-2.00000	19.00000	19.50000	-2.7832	19.083	0.0	0.0
	-1.00000	19.00000	19.50000	-3.8923	19.083	0.0	0.0
	0.00000	19.00000	19.50000	-5.9307	19.083	0.0	0.0
	1.00000	19.00000	19.50000	-7.9686	19.083	0.0	0.0
	2.00000	19.00000	19.50000	-9.0763	19.083	0.0	0.0
	3.00000	19.00000	19.50000	-9.8181	19.083	0.0	0.0
	4.00000	19.00000	19.50000	-10.352	19.083	0.0	0.0
	5.00000	19.00000	19.50000	-10.749	19.083	0.0	0.0
	6.00000	19.00000	19.50000	-11.049	19.083	0.0	0.0
	7.00000	19.00000	19.50000	-11.277	19.083	0.0	0.0
	8.00000	19.00000	19.50000	-11.450	19.083	0.0	0.0
	9.00000	19.00000	19.50000	-11.580	19.083	0.0	0.0
	10.00000	19.00000	19.50000	-11.676	19.083	0.0	0.0
	11.00000	19.00000	19.50000	-11.743	19.083	0.0	0.0
	12.00000	19.00000	19.50000	-11.786	19.083	0.0	0.0
	13.00000	19.00000	19.50000	-11.808	19.083	0.0	0.0
	14.00000	19.00000	19.50000	-11.810	19.083	0.0	0.0
	15.00000	19.00000	19.50000	-11.794	19.083	0.0	0.0
	16.00000	19.00000	19.50000	-11.758	19.083	0.0	0.0
	17.00000	19.00000	19.50000	-11.698	19.083	0.0	0.0
	18.00000	19.00000	19.50000	-11.606	19.083	0.0	0.0
	19.00000	19.00000	19.50000	-11.447	19.083	0.0	0.0
	20.00000	19.00000	19.50000	-11.325	19.083	0.0	0.0
	21.00000	19.00000	19.50000	-11.193	19.083	0.0	0.0
	22.00000	19.00000	19.50000	-11.004	19.083	0.0	0.0
	23.00000	19.00000	19.50000	-10.857	19.083	0.0	0.0
	24.00000	19.00000	19.50000	-10.718	19.083	0.0	0.0
	25.00000	19.00000	19.50000	-10.571	19.083	0.0	0.0
	26.00000	19.00000	19.50000	-10.407	19.083	0.0	0.0
	27.00000	19.00000	19.50000	-10.215	19.083	0.0	0.0
	28.00000	19.00000	19.50000	-9.9816	19.083	0.0	0.0
	29.00000	19.00000	19.50000	-9.6911	19.083	0.0	0.0
	30.00000	19.00000	19.50000	-9.3191	19.083	0.0	0.0
	31.00000	19.00000	19.50000	-8.8293	19.083	0.0	0.0
	32.00000	19.00000	19.50000	-8.1599	19.083	0.0	0.0
	33.00000	19.00000	19.50000	-7.1153	19.083	0.0	0.0
	34.00000	19.00000	19.50000	-5.2375	19.083	0.0	0.0
	35.00000	19.00000	19.50000	-3.2917	19.083	0.0	0.0
	36.00000	19.00000	19.50000	-2.3233	19.083	0.0	0.0
	37.00000	19.00000	19.50000	-1.6643	19.083	0.0	0.0
	38.00000	19.00000	19.50000	-1.1893	19.083	0.0	0.0
	39.00000	19.00000	19.50000	-0.83695	19.083	0.0	0.0
	40.00000	19.00000	19.50000	-0.57129	19.083	0.0	0.0
	41.00000	19.00000	19.50000	-0.36902	19.083	0.0	0.0
	42.00000	19.00000	19.50000	-0.21415	19.083	0.0	0.0
	43.00000	19.00000	19.50000	-0.095273	19.083	0.0	0.0
	44.00000	19.00000	19.50000	-0.0040615	19.083	0.0	0.0
	45.00000	19.00000	19.50000	0.065701	19.083	0.0	0.0
	46.00000	19.00000	19.50000	0.11872	19.083	0.0	0.0
	47.00000	19.00000	19.50000	0.15860	19.083	0.0	0.0
	48.00000	19.00000	19.50000	0.18814	19.083	0.0	0.0
	49.00000	19.00000	19.50000	0.20951	19.083	0.0	0.0
	50.00000	19.00000	19.50000	0.22442	19.083	0.0	0.0
	51.00000	19.00000	19.50000	0.23424	19.083	0.0	0.0
	52.00000	19.00000	19.50000	0.24004	19.083	0.0	0.0
	53.00000	19.00000	19.50000	0.24268	19.083	0.0	0.0
	54.00000	19.00000	19.50000	0.24285	19.083	0.0	0.0
	55.00000	19.00000	19.50000	0.24109	19.083	0.0	0.0
	-25.00000	20.00000	19.50000	0.21533	19.083	0.0	0.0
	-24.00000	20.00000	19.50000	0.21926	19.083	0.0	0.0
	-23.00000	20.00000	19.50000	0.22227	19.083	0.0	0.0
	-22.00000	20.00000	19.50000	0.22410	19.083	0.0	0.0
	-21.00000	20.00000	19.50000	0.22441	19.083	0.0	0.0
	-20.00000	20.00000	19.50000	0.22279	19.083	0.0	0.0
	-19.00000	20.00000	19.50000	0.21873	19.083	0.0	0.0
	-18.00000	20.00000	19.50000	0.21161	19.083	0.0	0.0
	-17.00000	20.00000	19.50000	0.20064	19.083	0.0	0.0
	-16.00000	20.00000	19.50000	0.18486	19.083	0.0	0.0
	-15.00000	20.00000	19.50000	0.16309	19.083	0.0	0.0
	-14.00000	20.00000	19.50000	0.13383	19.083	0.0	0.0
	-13.00000	20.00000	19.50000	0.095217	19.083	0.0	0.0
	-12.00000	20.00000	19.50000	0.044880	19.083	0.0	0.0
	-11.00000	20.00000	19.50000	-0.020182	19.083	0.0	0.0
	-10.00000	20.00000	19.50000	-0.10383	19.083	0.0	0.0
	-9.00000	20.00000	19.50000	-0.21107	19.083	0.0	0.0
	-8.00000	20.00000	19.50000	-0.34851	19.083	0.0	0.0
	-7.00000	20.00000	19.50000	-0.52498	19.083	0.0	0.0
	-6.00000	20.00000	19.50000	-0.75258	19.083	0.0	0.0
	-5.00000	20.00000	19.50000	-1.0484	19.083	0.0	0.0
	-4.00000	20.00000	19.50000	-1.4378	19.083	0.0	0.0
	-3.00000	20.00000	19.50000	-1.9607	19.083	0.0	0.0
	-2.00000	20.00000	19.50000	-2.6884	19.083	0.0	0.0
	-1.00000	20.00000	19.50000	-3.7795	19.083	0.0	0.0
	0.00000	20.00000	19.50000	-5.7990	19.083	0.0	0.0
	1.00000	20.00000	19.50000	-7.8181	19.083	0.0	0.0
	2.00000	20.00000	19.50000	-8.9079	19.083	0.0	0.0
	3.00000	20.00000	19.50000	-9.6333	19.083	0.0	0.0
	4.00000	20.00000	19.50000	-10.153	19.083	0.0	0.0
	5.00000	20.00000	19.50000	-10.538	19.083	0.0	0.0
	6.00000	20.00000	19.50000	-10.828	19.083	0.0	0.0
	7.00000	20.00000	19.50000	-11.048	19.083	0.0	0.0
	8.00000	20.00000	19.50000	-11.214	19.083	0.0	0.0
	9.00000	20.00000	19.50000	-11.339	19.083	0.0	0.0
	10.00000	20.00000	19.50000	-11.431	19.083	0.0	0.0
	11.00000	20.00000	19.50000	-11.496	19.083	0.0	0.0
	12.00000	20.00000	19.50000	-11.537	19.083	0.0	0.0
	13.00000	20.00000	19.50000	-11.558	19.083	0.0	0.0
	14.00000	20.00000	19.50000	-11.560	19.083	0.0	0.0
	15.00000	20.00000	19.50000	-11.544	19.083	0.0	0.0
	16.00000	20.00000	19.50000	-11.509	19.083	0.0	0.0
	17.00000	20.00000	19.50000	-11.451	19.083	0.0	0.0
	18.00000	20.00000	19.50000	-11.361	19.083	0.0	0.0
	19.00000	20.00000	19.50000	-11.205	19.083	0.0	0.0
	20.00000	20.00000	19.50000	-11.086	19.083	0.0	0.0
	21.00000	20.00000	19.50000	-10.958	19.083	0.0	0.0
	22.00000	20.00000	19.50000	-10.772	19.083	0.0	0.0
	23.00000	20.00000	19.50000	-10.630	19.083	0.0	0.0
	24.00000	20.00000	19.50000	-10.496	19.083	0.0	0.0
	25.00000	20.00000	19.50000	-10.354	19.083	0.0	0.0
	26.00000	20.00000	19.50000	-10.196	19.083	0.0	0.0
	27.00000	20.00000	19.50000	-10.011	19.083	0.0	0.0
	28.00000	20.00000	19.50000	-9.7863	19.083	0.0	0.0
	29.00000	20.00000	19.50000	-9.5055	19.083	0.0	0.0
	30.00000	20.00000	19.50000	-9.1449	19.083	0.0	0.0
	31.00000	20.00000	19.50000	-8.6682	19.083	0.0	0.0
	32.00000	20.00000	19.50000	-8.0136	19.083	0.0	0.0
	33.00000	20.00000	19.50000	-7.0553	19.083	0.0	0.0
	34.00000	20.00000	19.50000	-5.1244	19.083	0.0	0.0
	35.00000	20.00000	19.50000	-3.1954	19.083	0.0	0.0
	36.00000	20.00000	19.50000	-2.2430	19.083	0.0	0.0
	37.00000	20.00000	19.50000	-1.5984	19.083	0.0	0.0
	38.00000	20.00000	19.50000	-1.1361	19.083	0.0	0.0
	39.00000	20.00000	19.50000	-0.79448	19.083	0.0	0.0
	40.00000	20.00000	19.50000	-0.53774	19.083	0.0	0.0
	41.00000	20.00000	19.50000	-0.34277	19.083	0.0	0.0
	42.00000	20.00000	19.50000	-0.19379	19.083	0.0	0.0
	43.00000	20.00000	19.50000	-0.079636	19.083	0.0	0.0
	44.00000	20.00000	19.50000	0.0078154	19.083	0.0	0.0
	45.00000	20.00000	19.50000	0.074601	19.083	0.0	0.0
	46.00000	20.00000	19.50000	0.12527	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
47.00000	20.00000	19.50000	0.16331	19.083	0.0	0.0	0.0
48.00000	20.00000	19.50000	0.19141	19.083	0.0	0.0	0.0
49.00000	20.00000	19.50000	0.21166	19.083	0.0	0.0	0.0
50.00000	20.00000	19.50000	0.22571	19.083	0.0	0.0	0.0
51.00000	20.00000	19.50000	0.23486	19.083	0.0	0.0	0.0
52.00000	20.00000	19.50000	0.24016	19.083	0.0	0.0	0.0
53.00000	20.00000	19.50000	0.24242	19.083	0.0	0.0	0.0
54.00000	20.00000	19.50000	0.24231	19.083	0.0	0.0	0.0
55.00000	20.00000	19.50000	0.24036	19.083	0.0	0.0	0.0
-25.00000	21.00000	19.50000	0.21441	19.083	0.0	0.0	0.0
-24.00000	21.00000	19.50000	0.21842	19.083	0.0	0.0	0.0
-23.00000	21.00000	19.50000	0.22157	19.083	0.0	0.0	0.0
-22.00000	21.00000	19.50000	0.22359	19.083	0.0	0.0	0.0
-21.00000	21.00000	19.50000	0.22417	19.083	0.0	0.0	0.0
-20.00000	21.00000	19.50000	0.22290	19.083	0.0	0.0	0.0
-19.00000	21.00000	19.50000	0.21930	19.083	0.0	0.0	0.0
-18.00000	21.00000	19.50000	0.21277	19.083	0.0	0.0	0.0
-17.00000	21.00000	19.50000	0.20258	19.083	0.0	0.0	0.0
-16.00000	21.00000	19.50000	0.18781	19.083	0.0	0.0	0.0
-15.00000	21.00000	19.50000	0.16732	19.083	0.0	0.0	0.0
-14.00000	21.00000	19.50000	0.13969	19.083	0.0	0.0	0.0
-13.00000	21.00000	19.50000	0.10315	19.083	0.0	0.0	0.0
-12.00000	21.00000	19.50000	0.055443	19.083	0.0	0.0	0.0
-11.00000	21.00000	19.50000	-0.0062899	19.083	0.0	0.0	0.0
-10.00000	21.00000	19.50000	-0.085731	19.083	0.0	0.0	0.0
-9.00000	21.00000	19.50000	-0.18177	19.083	0.0	0.0	0.0
-8.00000	21.00000	19.50000	-0.31843	19.083	0.0	0.0	0.0
-7.00000	21.00000	19.50000	-0.48651	19.083	0.0	0.0	0.0
-6.00000	21.00000	19.50000	-0.70365	19.083	0.0	0.0	0.0
-5.00000	21.00000	19.50000	-0.98651	19.083	0.0	0.0	0.0
-4.00000	21.00000	19.50000	-1.36000	19.083	0.0	0.0	0.0
-3.00000	21.00000	19.50000	-1.8638	19.083	0.0	0.0	0.0
-2.00000	21.00000	19.50000	-2.5692	19.083	0.0	0.0	0.0
-1.00000	21.00000	19.50000	-3.6353	19.083	0.0	0.0	0.0
0.00000	21.00000	19.50000	-5.6283	19.083	0.0	0.0	0.0
1.00000	21.00000	19.50000	-7.6208	19.083	0.0	0.0	0.0
2.00000	21.00000	19.50000	-8.6857	19.083	0.0	0.0	0.0
3.00000	21.00000	19.50000	-9.3890	19.083	0.0	0.0	0.0
4.00000	21.00000	19.50000	-9.8897	19.083	0.0	0.0	0.0
5.00000	21.00000	19.50000	-10.259	19.083	0.0	0.0	0.0
6.00000	21.00000	19.50000	-10.536	19.083	0.0	0.0	0.0
7.00000	21.00000	19.50000	-10.746	19.083	0.0	0.0	0.0
8.00000	21.00000	19.50000	-10.905	19.083	0.0	0.0	0.0
9.00000	21.00000	19.50000	-11.024	19.083	0.0	0.0	0.0
10.00000	21.00000	19.50000	-11.111	19.083	0.0	0.0	0.0
11.00000	21.00000	19.50000	-11.173	19.083	0.0	0.0	0.0
12.00000	21.00000	19.50000	-11.212	19.083	0.0	0.0	0.0
13.00000	21.00000	19.50000	-11.232	19.083	0.0	0.0	0.0
14.00000	21.00000	19.50000	-11.234	19.083	0.0	0.0	0.0
15.00000	21.00000	19.50000	-11.218	19.083	0.0	0.0	0.0
16.00000	21.00000	19.50000	-11.184	19.083	0.0	0.0	0.0
17.00000	21.00000	19.50000	-11.129	19.083	0.0	0.0	0.0
18.00000	21.00000	19.50000	-11.041	19.083	0.0	0.0	0.0
19.00000	21.00000	19.50000	-10.889	19.083	0.0	0.0	0.0
20.00000	21.00000	19.50000	-10.774	19.083	0.0	0.0	0.0
21.00000	21.00000	19.50000	-10.651	19.083	0.0	0.0	0.0
22.00000	21.00000	19.50000	-10.470	19.083	0.0	0.0	0.0
23.00000	21.00000	19.50000	-10.333	19.083	0.0	0.0	0.0
24.00000	21.00000	19.50000	-10.204	19.083	0.0	0.0	0.0
25.00000	21.00000	19.50000	-10.070	19.083	0.0	0.0	0.0
26.00000	21.00000	19.50000	-9.9187	19.083	0.0	0.0	0.0
27.00000	21.00000	19.50000	-9.7421	19.083	0.0	0.0	0.0
28.00000	21.00000	19.50000	-9.5276	19.083	0.0	0.0	0.0
29.00000	21.00000	19.50000	-9.2591	19.083	0.0	0.0	0.0
30.00000	21.00000	19.50000	-8.9132	19.083	0.0	0.0	0.0
31.00000	21.00000	19.50000	-8.4519	19.083	0.0	0.0	0.0
32.00000	21.00000	19.50000	-7.8195	19.083	0.0	0.0	0.0
33.00000	21.00000	19.50000	-6.8836	19.083	0.0	0.0	0.0
34.00000	21.00000	19.50000	-4.9765	19.083	0.0	0.0	0.0
35.00000	21.00000	19.50000	-3.0713	19.083	0.0	0.0	0.0
36.00000	21.00000	19.50000	-2.1412	19.083	0.0	0.0	0.0
37.00000	21.00000	19.50000	-1.5164	19.083	0.0	0.0	0.0
38.00000	21.00000	19.50000	-1.0709	19.083	0.0	0.0	0.0
39.00000	21.00000	19.50000	-0.74328	19.083	0.0	0.0	0.0
40.00000	21.00000	19.50000	-0.49783	19.083	0.0	0.0	0.0
41.00000	21.00000	19.50000	-0.31188	19.083	0.0	0.0	0.0
42.00000	21.00000	19.50000	-0.17006	19.083	0.0	0.0	0.0
43.00000	21.00000	19.50000	-0.061553	19.083	0.0	0.0	0.0
44.00000	21.00000	19.50000	0.021457	19.083	0.0	0.0	0.0
45.00000	21.00000	19.50000	0.084762	19.083	0.0	0.0	0.0
46.00000	21.00000	19.50000	0.13271	19.083	0.0	0.0	0.0
47.00000	21.00000	19.50000	0.16863	19.083	0.0	0.0	0.0
48.00000	21.00000	19.50000	0.19508	19.083	0.0	0.0	0.0
49.00000	21.00000	19.50000	0.21405	19.083	0.0	0.0	0.0
50.00000	21.00000	19.50000	0.22712	19.083	0.0	0.0	0.0
51.00000	21.00000	19.50000	0.23553	19.083	0.0	0.0	0.0
52.00000	21.00000	19.50000	0.24026	19.083	0.0	0.0	0.0
53.00000	21.00000	19.50000	0.24210	19.083	0.0	0.0	0.0
54.00000	21.00000	19.50000	0.24167	19.083	0.0	0.0	0.0
55.00000	21.00000	19.50000	0.23949	19.083	0.0	0.0	0.0
-25.00000	22.00000	19.50000	0.21335	19.083	0.0	0.0	0.0
-24.00000	22.00000	19.50000	0.21747	19.083	0.0	0.0	0.0
-23.00000	22.00000	19.50000	0.22076	19.083	0.0	0.0	0.0
-22.00000	22.00000	19.50000	0.22299	19.083	0.0	0.0	0.0
-21.00000	22.00000	19.50000	0.22385	19.083	0.0	0.0	0.0
-20.00000	22.00000	19.50000	0.22296	19.083	0.0	0.0	0.0
-19.00000	22.00000	19.50000	0.21987	19.083	0.0	0.0	0.0
-18.00000	22.00000	19.50000	0.21400	19.083	0.0	0.0	0.0
-17.00000	22.00000	19.50000	0.20467	19.083	0.0	0.0	0.0
-16.00000	22.00000	19.50000	0.19099	19.083	0.0	0.0	0.0
-15.00000	22.00000	19.50000	0.17192	19.083	0.0	0.0	0.0
-14.00000	22.00000	19.50000	0.14610	19.083	0.0	0.0	0.0
-13.00000	22.00000	19.50000	0.11187	19.083	0.0	0.0	0.0
-12.00000	22.00000	19.50000	0.067116	19.083	0.0	0.0	0.0
-11.00000	22.00000	19.50000	0.0091383	19.083	0.0	0.0	0.0
-10.00000	22.00000	19.50000	-0.065520	19.083	0.0	0.0	0.0
-9.00000	22.00000	19.50000	-0.16137	19.083	0.0	0.0	0.0
-8.00000	22.00000	19.50000	-0.28436	19.083	0.0	0.0	0.0
-7.00000	22.00000	19.50000	-0.44255	19.083	0.0	0.0	0.0
-6.00000	22.00000	19.50000	-0.64707	19.083	0.0	0.0	0.0
-5.00000	22.00000	19.50000	-0.91392	19.083	0.0	0.0	0.0
-4.00000	22.00000	19.50000	-1.2672	19.083	0.0	0.0	0.0
-3.00000	22.00000	19.50000	-1.7458	19.083	0.0	0.0	0.0
-2.00000	22.00000	19.50000	-2.4207	19.083	0.0	0.0	0.0
-1.00000	22.00000	19.50000	-3.4515	19.083	0.0	0.0	0.0
0.00000	22.00000	19.50000	-5.4061	19.083	0.0	0.0	0.0
1.00000	22.00000	19.50000	-7.3602	19.083	0.0	0.0	0.0
2.00000	22.00000	19.50000	-8.3899	19.083	0.0	0.0	0.0
3.00000	22.00000	19.50000	-9.0628	19.083	0.0	0.0	0.0
4.00000	22.00000	19.50000	-9.5385	19.083	0.0	0.0	0.0
5.00000	22.00000	19.50000	-9.8878	19.083	0.0	0.0	0.0
6.00000	22.00000	19.50000	-10.149	19.083	0.0	0.0	0.0
7.00000	22.00000	19.50000	-10.347	19.083	0.0	0.0	0.0
8.00000	22.00000	19.50000	-10.497	19.083	0.0	0.0	0.0
9.00000	22.00000	19.50000	-10.609	19.083	0.0	0.0	0.0
10.00000	22.00000	19.50000	-10.691	19.083	0.0	0.0	0.0
11.00000	22.00000	19.50000	-10.749	19.083	0.0	0.0	0.0
12.00000	22.00000	19.50000	-10.786	19.083	0.0	0.0	0.0
13.00000	22.00000	19.50000	-10.804	19.083	0.0	0.0	0.0
14.00000	22.00000	19.50000	-10.806	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	15.00000	22.00000	19.50000	-10.791	19.083	0.0	0.0
	16.00000	22.00000	19.50000	-10.759	19.083	0.0	0.0
	17.00000	22.00000	19.50000	-10.706	19.083	0.0	0.0
	18.00000	22.00000	19.50000	-10.622	19.083	0.0	0.0
	19.00000	22.00000	19.50000	-10.474	19.083	0.0	0.0
	20.00000	22.00000	19.50000	-10.365	19.083	0.0	0.0
	21.00000	22.00000	19.50000	-10.248	19.083	0.0	0.0
	22.00000	22.00000	19.50000	-10.073	19.083	0.0	0.0
	23.00000	22.00000	19.50000	-9.9429	19.083	0.0	0.0
	24.00000	22.00000	19.50000	-9.8211	19.083	0.0	0.0
	25.00000	22.00000	19.50000	-9.6939	19.083	0.0	0.0
	26.00000	22.00000	19.50000	-9.5517	19.083	0.0	0.0
	27.00000	22.00000	19.50000	-9.3853	19.083	0.0	0.0
	28.00000	22.00000	19.50000	-9.1831	19.083	0.0	0.0
	29.00000	22.00000	19.50000	-8.9296	19.083	0.0	0.0
	30.00000	22.00000	19.50000	-8.6024	19.083	0.0	0.0
	31.00000	22.00000	19.50000	-8.1661	19.083	0.0	0.0
	32.00000	22.00000	19.50000	-7.5593	19.083	0.0	0.0
	33.00000	22.00000	19.50000	-6.6553	19.083	0.0	0.0
	34.00000	22.00000	19.50000	-4.7828	19.083	0.0	0.0
	35.00000	22.00000	19.50000	-2.9120	19.083	0.0	0.0
	36.00000	22.00000	19.50000	-2.0135	19.083	0.0	0.0
	37.00000	22.00000	19.50000	-1.4160	19.083	0.0	0.0
	38.00000	22.00000	19.50000	-0.99276	19.083	0.0	0.0
	39.00000	22.00000	19.50000	-0.68289	19.083	0.0	0.0
	40.00000	22.00000	19.50000	-0.45144	19.083	0.0	0.0
	41.00000	22.00000	19.50000	-0.27641	19.083	0.0	0.0
	42.00000	22.00000	19.50000	-0.14308	19.083	0.0	0.0
	43.00000	22.00000	19.50000	-0.041167	19.083	0.0	0.0
	44.00000	22.00000	19.50000	0.036728	19.083	0.0	0.0
	45.00000	22.00000	19.50000	0.096065	19.083	0.0	0.0
	46.00000	22.00000	19.50000	0.14094	19.083	0.0	0.0
	47.00000	22.00000	19.50000	0.17448	19.083	0.0	0.0
	48.00000	22.00000	19.50000	0.19909	19.083	0.0	0.0
	49.00000	22.00000	19.50000	0.21664	19.083	0.0	0.0
	50.00000	22.00000	19.50000	0.22863	19.083	0.0	0.0
	51.00000	22.00000	19.50000	0.23621	19.083	0.0	0.0
	52.00000	22.00000	19.50000	0.24031	19.083	0.0	0.0
	53.00000	22.00000	19.50000	0.24169	19.083	0.0	0.0
	54.00000	22.00000	19.50000	0.24092	19.083	0.0	0.0
	55.00000	22.00000	19.50000	0.23850	19.083	0.0	0.0
	-25.00000	23.00000	19.50000	0.21216	19.083	0.0	0.0
	-24.00000	23.00000	19.50000	0.21638	19.083	0.0	0.0
	-23.00000	23.00000	19.50000	0.21984	19.083	0.0	0.0
	-22.00000	23.00000	19.50000	0.22229	19.083	0.0	0.0
	-21.00000	23.00000	19.50000	0.22345	19.083	0.0	0.0
	-20.00000	23.00000	19.50000	0.22297	19.083	0.0	0.0
	-19.00000	23.00000	19.50000	0.22041	19.083	0.0	0.0
	-18.00000	23.00000	19.50000	0.21525	19.083	0.0	0.0
	-17.00000	23.00000	19.50000	0.20684	19.083	0.0	0.0
	-16.00000	23.00000	19.50000	0.19436	19.083	0.0	0.0
	-15.00000	23.00000	19.50000	0.17681	19.083	0.0	0.0
	-14.00000	23.00000	19.50000	0.15296	19.083	0.0	0.0
	-13.00000	23.00000	19.50000	0.12125	19.083	0.0	0.0
	-12.00000	23.00000	19.50000	0.079723	19.083	0.0	0.0
	-11.00000	23.00000	19.50000	0.025890	19.083	0.0	0.0
	-10.00000	23.00000	19.50000	-0.043471	19.083	0.0	0.0
	-9.00000	23.00000	19.50000	-0.13249	19.083	0.0	0.0
	-8.00000	23.00000	19.50000	-0.24668	19.083	0.0	0.0
	-7.00000	23.00000	19.50000	-0.39348	19.083	0.0	0.0
	-6.00000	23.00000	19.50000	-0.58319	19.083	0.0	0.0
	-5.00000	23.00000	19.50000	-0.83071	19.083	0.0	0.0
	-4.00000	23.00000	19.50000	-1.1587	19.083	0.0	0.0
	-3.00000	23.00000	19.50000	-1.6045	19.083	0.0	0.0
	-2.00000	23.00000	19.50000	-2.2373	19.083	0.0	0.0
	-1.00000	23.00000	19.50000	-3.2164	19.083	0.0	0.0
	0.00000	23.00000	19.50000	-5.1127	19.083	0.0	0.0
	1.00000	23.00000	19.50000	-7.0087	19.083	0.0	0.0
	2.00000	23.00000	19.50000	-7.9867	19.083	0.0	0.0
	3.00000	23.00000	19.50000	-8.6177	19.083	0.0	0.0
	4.00000	23.00000	19.50000	-9.0608	19.083	0.0	0.0
	5.00000	23.00000	19.50000	-9.3851	19.083	0.0	0.0
	6.00000	23.00000	19.50000	-9.6278	19.083	0.0	0.0
	7.00000	23.00000	19.50000	-9.8113	19.083	0.0	0.0
	8.00000	23.00000	19.50000	-9.9501	19.083	0.0	0.0
	9.00000	23.00000	19.50000	-10.054	19.083	0.0	0.0
	10.00000	23.00000	19.50000	-10.131	19.083	0.0	0.0
	11.00000	23.00000	19.50000	-10.184	19.083	0.0	0.0
	12.00000	23.00000	19.50000	-10.219	19.083	0.0	0.0
	13.00000	23.00000	19.50000	-10.236	19.083	0.0	0.0
	14.00000	23.00000	19.50000	-10.238	19.083	0.0	0.0
	15.00000	23.00000	19.50000	-10.224	19.083	0.0	0.0
	16.00000	23.00000	19.50000	-10.194	19.083	0.0	0.0
	17.00000	23.00000	19.50000	-10.144	19.083	0.0	0.0
	18.00000	23.00000	19.50000	-10.065	19.083	0.0	0.0
	19.00000	23.00000	19.50000	-9.9238	19.083	0.0	0.0
	20.00000	23.00000	19.50000	-9.8224	19.083	0.0	0.0
	21.00000	23.00000	19.50000	-9.7128	19.083	0.0	0.0
	22.00000	23.00000	19.50000	-9.5464	19.083	0.0	0.0
	23.00000	23.00000	19.50000	-9.4243	19.083	0.0	0.0
	24.00000	23.00000	19.50000	-9.3106	19.083	0.0	0.0
	25.00000	23.00000	19.50000	-9.1921	19.083	0.0	0.0
	26.00000	23.00000	19.50000	-9.0599	19.083	0.0	0.0
	27.00000	23.00000	19.50000	-8.9052	19.083	0.0	0.0
	28.00000	23.00000	19.50000	-8.7174	19.083	0.0	0.0
	29.00000	23.00000	19.50000	-8.4821	19.083	0.0	0.0
	30.00000	23.00000	19.50000	-8.1782	19.083	0.0	0.0
	31.00000	23.00000	19.50000	-7.7718	19.083	0.0	0.0
	32.00000	23.00000	19.50000	-7.2032	19.083	0.0	0.0
	33.00000	23.00000	19.50000	-6.3458	19.083	0.0	0.0
	34.00000	23.00000	19.50000	-4.5255	19.083	0.0	0.0
	35.00000	23.00000	19.50000	-2.7070	19.083	0.0	0.0
	36.00000	23.00000	19.50000	-1.8547	19.083	0.0	0.0
	37.00000	23.00000	19.50000	-1.2948	19.083	0.0	0.0
	38.00000	23.00000	19.50000	-0.90085	19.083	0.0	0.0
	39.00000	23.00000	19.50000	-0.61332	19.083	0.0	0.0
	40.00000	23.00000	19.50000	-0.39882	19.083	0.0	0.0
	41.00000	23.00000	19.50000	-0.23667	19.083	0.0	0.0
	42.00000	23.00000	19.50000	-0.11315	19.083	0.0	0.0
	43.00000	23.00000	19.50000	-0.018736	19.083	0.0	0.0
	44.00000	23.00000	19.50000	0.053815	19.083	0.0	0.0
	45.00000	23.00000	19.50000	0.10834	19.083	0.0	0.0
	46.00000	23.00000	19.50000	0.14982	19.083	0.0	0.0
	47.00000	23.00000	19.50000	0.18075	19.083	0.0	0.0
	48.00000	23.00000	19.50000	0.20335	19.083	0.0	0.0
	49.00000	23.00000	19.50000	0.21937	19.083	0.0	0.0
	50.00000	23.00000	19.50000	0.23018	19.083	0.0	0.0
	51.00000	23.00000	19.50000	0.23687	19.083	0.0	0.0
	52.00000	23.00000	19.50000	0.24030	19.083	0.0	0.0
	53.00000	23.00000	19.50000	0.24118	19.083	0.0	0.0
	54.00000	23.00000	19.50000	0.24005	19.083	0.0	0.0
	55.00000	23.00000	19.50000	0.23736	19.083	0.0	0.0
	-25.00000	24.00000	19.50000	0.21084	19.083	0.0	0.0
	-24.00000	24.00000	19.50000	0.21517	19.083	0.0	0.0
	-23.00000	24.00000	19.50000	0.21878	19.083	0.0	0.0
	-22.00000	24.00000	19.50000	0.22146	19.083	0.0	0.0
	-21.00000	24.00000	19.50000	0.22294	19.083	0.0	0.0
	-20.00000	24.00000	19.50000	0.22289	19.083	0.0	0.0
	-19.00000	24.00000	19.50000	0.22090	19.083	0.0	0.0
	-18.00000	24.00000	19.50000	0.21649	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-17.00000	24.00000	19.50000	0.20904	19.083	0.0	0.0	0.0
	-16.00000	24.00000	19.50000	0.19782	19.083	0.0	0.0	0.0
	-15.00000	24.00000	19.50000	0.18190	19.083	0.0	0.0	0.0
	-14.00000	24.00000	19.50000	0.16014	19.083	0.0	0.0	0.0
	-13.00000	24.00000	19.50000	0.13112	19.083	0.0	0.0	0.0
	-12.00000	24.00000	19.50000	0.093043	19.083	0.0	0.0	0.0
	-11.00000	24.00000	19.50000	0.043650	19.083	0.0	0.0	0.0
	-10.00000	24.00000	19.50000	-0.019956	19.083	0.0	0.0	0.0
	-9.00000	24.00000	19.50000	-0.10153	19.083	0.0	0.0	0.0
	-8.00000	24.00000	19.50000	-0.20601	19.083	0.0	0.0	0.0
	-7.00000	24.00000	19.50000	-0.34006	19.083	0.0	0.0	0.0
	-6.00000	24.00000	19.50000	-0.51289	19.083	0.0	0.0	0.0
	-5.00000	24.00000	19.50000	-0.73780	19.083	0.0	0.0	0.0
	-4.00000	24.00000	19.50000	-1.0351	19.083	0.0	0.0	0.0
	-3.00000	24.00000	19.50000	-1.4387	19.083	0.0	0.0	0.0
	-2.00000	24.00000	19.50000	-2.0131	19.083	0.0	0.0	0.0
	-1.00000	24.00000	19.50000	-2.9133	19.083	0.0	0.0	0.0
	0.00000	24.00000	19.50000	-4.7131	19.083	0.0	0.0	0.0
	1.00000	24.00000	19.50000	-6.5127	19.083	0.0	0.0	0.0
	2.00000	24.00000	19.50000	-7.4119	19.083	0.0	0.0	0.0
	3.00000	24.00000	19.50000	-7.9847	19.083	0.0	0.0	0.0
	4.00000	24.00000	19.50000	-8.3859	19.083	0.0	0.0	0.0
	5.00000	24.00000	19.50000	-8.6798	19.083	0.0	0.0	0.0
	6.00000	24.00000	19.50000	-8.9003	19.083	0.0	0.0	0.0
	7.00000	24.00000	19.50000	-9.0675	19.083	0.0	0.0	0.0
	8.00000	24.00000	19.50000	-9.1943	19.083	0.0	0.0	0.0
	9.00000	24.00000	19.50000	-9.2896	19.083	0.0	0.0	0.0
	10.00000	24.00000	19.50000	-9.3597	19.083	0.0	0.0	0.0
	11.00000	24.00000	19.50000	-9.4090	19.083	0.0	0.0	0.0
	12.00000	24.00000	19.50000	-9.4405	19.083	0.0	0.0	0.0
	13.00000	24.00000	19.50000	-9.4565	19.083	0.0	0.0	0.0
	14.00000	24.00000	19.50000	-9.4581	19.083	0.0	0.0	0.0
	15.00000	24.00000	19.50000	-9.4457	19.083	0.0	0.0	0.0
	16.00000	24.00000	19.50000	-9.4183	19.083	0.0	0.0	0.0
	17.00000	24.00000	19.50000	-9.3729	19.083	0.0	0.0	0.0
	18.00000	24.00000	19.50000	-9.3105	19.083	0.0	0.0	0.0
	19.00000	24.00000	19.50000	-9.1688	19.083	0.0	0.0	0.0
	20.00000	24.00000	19.50000	-9.0799	19.083	0.0	0.0	0.0
	21.00000	24.00000	19.50000	-8.9835	19.083	0.0	0.0	0.0
	22.00000	24.00000	19.50000	-8.8287	19.083	0.0	0.0	0.0
	23.00000	24.00000	19.50000	-8.7166	19.083	0.0	0.0	0.0
	24.00000	24.00000	19.50000	-8.6124	19.083	0.0	0.0	0.0
	25.00000	24.00000	19.50000	-8.5037	19.083	0.0	0.0	0.0
	26.00000	24.00000	19.50000	-8.3825	19.083	0.0	0.0	0.0
	27.00000	24.00000	19.50000	-8.2410	19.083	0.0	0.0	0.0
	28.00000	24.00000	19.50000	-8.0697	19.083	0.0	0.0	0.0
	29.00000	24.00000	19.50000	-7.8556	19.083	0.0	0.0	0.0
	30.00000	24.00000	19.50000	-7.5800	19.083	0.0	0.0	0.0
	31.00000	24.00000	19.50000	-7.2120	19.083	0.0	0.0	0.0
	32.00000	24.00000	19.50000	-6.6960	19.083	0.0	0.0	0.0
	33.00000	24.00000	19.50000	-5.9092	19.083	0.0	0.0	0.0
	34.00000	24.00000	19.50000	-4.1746	19.083	0.0	0.0	0.0
	35.00000	24.00000	19.50000	-2.4417	19.083	0.0	0.0	0.0
	36.00000	24.00000	19.50000	-1.6597	19.083	0.0	0.0	0.0
	37.00000	24.00000	19.50000	-1.1519	19.083	0.0	0.0	0.0
	38.00000	24.00000	19.50000	-0.79560	19.083	0.0	0.0	0.0
	39.00000	24.00000	19.50000	-0.53531	19.083	0.0	0.0	0.0
	40.00000	24.00000	19.50000	-0.34073	19.083	0.0	0.0	0.0
	41.00000	24.00000	19.50000	-0.19330	19.083	0.0	0.0	0.0
	42.00000	24.00000	19.50000	-0.080780	19.083	0.0	0.0	0.0
	43.00000	24.00000	19.50000	0.0053503	19.083	0.0	0.0	0.0
	44.00000	24.00000	19.50000	0.071220	19.083	0.0	0.0	0.0
	45.00000	24.00000	19.50000	0.12136	19.083	0.0	0.0	0.0
	46.00000	24.00000	19.50000	0.15918	19.083	0.0	0.0	0.0
	47.00000	24.00000	19.50000	0.18731	19.083	0.0	0.0	0.0
	48.00000	24.00000	19.50000	0.20777	19.083	0.0	0.0	0.0
	49.00000	24.00000	19.50000	0.22216	19.083	0.0	0.0	0.0
	50.00000	24.00000	19.50000	0.23172	19.083	0.0	0.0	0.0
	51.00000	24.00000	19.50000	0.23747	19.083	0.0	0.0	0.0
	52.00000	24.00000	19.50000	0.24020	19.083	0.0	0.0	0.0
	53.00000	24.00000	19.50000	0.24055	19.083	0.0	0.0	0.0
	54.00000	24.00000	19.50000	0.23903	19.083	0.0	0.0	0.0
	55.00000	24.00000	19.50000	0.23608	19.083	0.0	0.0	0.0
	-25.00000	25.00000	19.50000	0.20938	19.083	0.0	0.0	0.0
	-24.00000	25.00000	19.50000	0.21382	19.083	0.0	0.0	0.0
	-23.00000	25.00000	19.50000	0.21760	19.083	0.0	0.0	0.0
	-22.00000	25.00000	19.50000	0.22051	19.083	0.0	0.0	0.0
	-21.00000	25.00000	19.50000	0.22232	19.083	0.0	0.0	0.0
	-20.00000	25.00000	19.50000	0.22270	19.083	0.0	0.0	0.0
	-19.00000	25.00000	19.50000	0.22130	19.083	0.0	0.0	0.0
	-18.00000	25.00000	19.50000	0.21766	19.083	0.0	0.0	0.0
	-17.00000	25.00000	19.50000	0.21122	19.083	0.0	0.0	0.0
	-16.00000	25.00000	19.50000	0.20131	19.083	0.0	0.0	0.0
	-15.00000	25.00000	19.50000	0.18707	19.083	0.0	0.0	0.0
	-14.00000	25.00000	19.50000	0.16749	19.083	0.0	0.0	0.0
	-13.00000	25.00000	19.50000	0.14128	19.083	0.0	0.0	0.0
	-12.00000	25.00000	19.50000	0.10682	19.083	0.0	0.0	0.0
	-11.00000	25.00000	19.50000	0.062103	19.083	0.0	0.0	0.0
	-10.00000	25.00000	19.50000	0.0045622	19.083	0.0	0.0	0.0
	-9.00000	25.00000	19.50000	-0.069102	19.083	0.0	0.0	0.0
	-8.00000	25.00000	19.50000	-0.16320	19.083	0.0	0.0	0.0
	-7.00000	25.00000	19.50000	-0.28346	19.083	0.0	0.0	0.0
	-6.00000	25.00000	19.50000	-0.43775	19.083	0.0	0.0	0.0
	-5.00000	25.00000	19.50000	-0.63728	19.083	0.0	0.0	0.0
	-4.00000	25.00000	19.50000	-0.89895	19.083	0.0	0.0	0.0
	-3.00000	25.00000	19.50000	-1.25077	19.083	0.0	0.0	0.0
	-2.00000	25.00000	19.50000	-1.7462	19.083	0.0	0.0	0.0
	-1.00000	25.00000	19.50000	-2.5200	19.083	0.0	0.0	0.0
	0.00000	25.00000	19.50000	-4.1290	19.083	0.0	0.0	0.0
	1.00000	25.00000	19.50000	-5.7377	19.083	0.0	0.0	0.0
	2.00000	25.00000	19.50000	-6.5107	19.083	0.0	0.0	0.0
	3.00000	25.00000	19.50000	-7.0047	19.083	0.0	0.0	0.0
	4.00000	25.00000	19.50000	-7.3543	19.083	0.0	0.0	0.0
	5.00000	25.00000	19.50000	-7.6130	19.083	0.0	0.0	0.0
	6.00000	25.00000	19.50000	-7.8085	19.083	0.0	0.0	0.0
	7.00000	25.00000	19.50000	-7.9577	19.083	0.0	0.0	0.0
	8.00000	25.00000	19.50000	-8.0715	19.083	0.0	0.0	0.0
	9.00000	25.00000	19.50000	-8.1573	19.083	0.0	0.0	0.0
	10.00000	25.00000	19.50000	-8.2206	19.083	0.0	0.0	0.0
	11.00000	25.00000	19.50000	-8.2653	19.083	0.0	0.0	0.0
	12.00000	25.00000	19.50000	-8.2940	19.083	0.0	0.0	0.0
	13.00000	25.00000	19.50000	-8.3086	19.083	0.0	0.0	0.0
	14.00000	25.00000	19.50000	-8.3102	19.083	0.0	0.0	0.0
	15.00000	25.00000	19.50000	-8.2992	19.083	0.0	0.0	0.0
	16.00000	25.00000	19.50000	-8.2749	19.083	0.0	0.0	0.0
	17.00000	25.00000	19.50000	-8.2349	19.083	0.0	0.0	0.0
	18.00000	25.00000	19.50000	-8.1717	19.083	0.0	0.0	0.0
	19.00000	25.00000	19.50000	-8.0566	19.083	0.0	0.0	0.0
	20.00000	25.00000	19.50000	-7.9974	19.083	0.0	0.0	0.0
	21.00000	25.00000	19.50000	-7.9314	19.083	0.0	0.0	0.0
	22.00000	25.00000	19.50000	-7.8593	19.083	0.0	0.0	0.0
	23.00000	25.00000	19.50000	-7.6959	19.083	0.0	0.0	0.0
	24.00000	25.00000	19.50000	-7.6025	19.083	0.0	0.0	0.0
	25.00000	25.00000	19.50000	-7.5045	19.083	0.0	0.0	0.0
	26.00000	25.00000	19.50000	-7.3952	19.083	0.0	0.0	0.0
	27.00000	25.00000	19.50000	-7.2660	19.083	0.0	0.0	0.0
	28.00000	25.00000	19.50000	-7.1147	19.083	0.0	0.0	0.0
	29.00000	25.00000	19.50000	-6.9245	19.083	0.0	0.0	0.0
	30.00000	25.00000	19					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	32.00000	25.00000	19.50000	-5.9155	19.083	0.0	0.0
	33.00000	25.00000	19.50000	-5.2398	19.083	0.0	0.0
	34.00000	25.00000	19.50000	-3.6682	19.083	0.0	0.0
	35.00000	25.00000	19.50000	-2.0981	19.083	0.0	0.0
	36.00000	25.00000	19.50000	-1.4269	19.083	0.0	0.0
	37.00000	25.00000	19.50000	-0.98932	19.083	0.0	0.0
	38.00000	25.00000	19.50000	-0.67928	19.083	0.0	0.0
	39.00000	25.00000	19.50000	-0.45068	19.083	0.0	0.0
	40.00000	25.00000	19.50000	-0.27850	19.083	0.0	0.0
	41.00000	25.00000	19.50000	-0.14728	19.083	0.0	0.0
	42.00000	25.00000	19.50000	-0.046676	19.083	0.0	0.0
	43.00000	25.00000	19.50000	0.030574	19.083	0.0	0.0
	44.00000	25.00000	19.50000	0.089765	19.083	0.0	0.0
	45.00000	25.00000	19.50000	0.13485	19.083	0.0	0.0
	46.00000	25.00000	19.50000	0.16883	19.083	0.0	0.0
	47.00000	25.00000	19.50000	0.19402	19.083	0.0	0.0
	48.00000	25.00000	19.50000	0.21225	19.083	0.0	0.0
	49.00000	25.00000	19.50000	0.22493	19.083	0.0	0.0
	50.00000	25.00000	19.50000	0.23320	19.083	0.0	0.0
	51.00000	25.00000	19.50000	0.23797	19.083	0.0	0.0
	52.00000	25.00000	19.50000	0.23977	19.083	0.0	0.0
	53.00000	25.00000	19.50000	0.23978	19.083	0.0	0.0
	54.00000	25.00000	19.50000	0.23787	19.083	0.0	0.0
	55.00000	25.00000	19.50000	0.23464	19.083	0.0	0.0
	-25.00000	26.00000	19.50000	0.20778	19.083	0.0	0.0
	-24.00000	26.00000	19.50000	0.21233	19.083	0.0	0.0
	-23.00000	26.00000	19.50000	0.21627	19.083	0.0	0.0
	-22.00000	26.00000	19.50000	0.21942	19.083	0.0	0.0
	-21.00000	26.00000	19.50000	0.22155	19.083	0.0	0.0
	-20.00000	26.00000	19.50000	0.22238	19.083	0.0	0.0
	-19.00000	26.00000	19.50000	0.22158	19.083	0.0	0.0
	-18.00000	26.00000	19.50000	0.21872	19.083	0.0	0.0
	-17.00000	26.00000	19.50000	0.21331	19.083	0.0	0.0
	-16.00000	26.00000	19.50000	0.20472	19.083	0.0	0.0
	-15.00000	26.00000	19.50000	0.19222	19.083	0.0	0.0
	-14.00000	26.00000	19.50000	0.17486	19.083	0.0	0.0
	-13.00000	26.00000	19.50000	0.15151	19.083	0.0	0.0
	-12.00000	26.00000	19.50000	0.12077	19.083	0.0	0.0
	-11.00000	26.00000	19.50000	0.080851	19.083	0.0	0.0
	-10.00000	26.00000	19.50000	0.029550	19.083	0.0	0.0
	-9.00000	26.00000	19.50000	-0.035954	19.083	0.0	0.0
	-8.00000	26.00000	19.50000	-0.11929	19.083	0.0	0.0
	-7.00000	26.00000	19.50000	-0.22519	19.083	0.0	0.0
	-6.00000	26.00000	19.50000	-0.36001	19.083	0.0	0.0
	-5.00000	26.00000	19.50000	-0.53253	19.083	0.0	0.0
	-4.00000	26.00000	19.50000	-0.75549	19.083	0.0	0.0
	-3.00000	26.00000	19.50000	-1.0488	19.083	0.0	0.0
	-2.00000	26.00000	19.50000	-1.4476	19.083	0.0	0.0
	-1.00000	26.00000	19.50000	-2.0305	19.083	0.0	0.0
	0.00000	26.00000	19.50000	-3.0789	19.083	0.0	0.0
	1.00000	26.00000	19.50000	-4.1271	19.083	0.0	0.0
	2.00000	26.00000	19.50000	-4.7093	19.083	0.0	0.0
	3.00000	26.00000	19.50000	-5.1068	19.083	0.0	0.0
	4.00000	26.00000	19.50000	-5.3982	19.083	0.0	0.0
	5.00000	26.00000	19.50000	-5.6185	19.083	0.0	0.0
	6.00000	26.00000	19.50000	-5.7876	19.083	0.0	0.0
	7.00000	26.00000	19.50000	-5.9179	19.083	0.0	0.0
	8.00000	26.00000	19.50000	-6.0180	19.083	0.0	0.0
	9.00000	26.00000	19.50000	-6.0940	19.083	0.0	0.0
	10.00000	26.00000	19.50000	-6.1503	19.083	0.0	0.0
	11.00000	26.00000	19.50000	-6.1902	19.083	0.0	0.0
	12.00000	26.00000	19.50000	-6.2159	19.083	0.0	0.0
	13.00000	26.00000	19.50000	-6.2291	19.083	0.0	0.0
	14.00000	26.00000	19.50000	-6.2308	19.083	0.0	0.0
	15.00000	26.00000	19.50000	-6.2214	19.083	0.0	0.0
	16.00000	26.00000	19.50000	-6.2006	19.083	0.0	0.0
	17.00000	26.00000	19.50000	-6.1666	19.083	0.0	0.0
	18.00000	26.00000	19.50000	-6.1149	19.083	0.0	0.0
	19.00000	26.00000	19.50000	-6.0290	19.083	0.0	0.0
	20.00000	26.00000	19.50000	-5.9603	19.083	0.0	0.0
	21.00000	26.00000	19.50000	-5.8955	19.083	0.0	0.0
	22.00000	26.00000	19.50000	-5.7807	19.083	0.0	0.0
	23.00000	26.00000	19.50000	-5.6965	19.083	0.0	0.0
	24.00000	26.00000	19.50000	-5.6147	19.083	0.0	0.0
	25.00000	26.00000	19.50000	-5.5280	19.083	0.0	0.0
	26.00000	26.00000	19.50000	-5.4311	19.083	0.0	0.0
	27.00000	26.00000	19.50000	-5.3188	19.083	0.0	0.0
	28.00000	26.00000	19.50000	-5.1844	19.083	0.0	0.0
	29.00000	26.00000	19.50000	-5.0196	19.083	0.0	0.0
	30.00000	26.00000	19.50000	-4.8122	19.083	0.0	0.0
	31.00000	26.00000	19.50000	-4.5443	19.083	0.0	0.0
	32.00000	26.00000	19.50000	-4.1852	19.083	0.0	0.0
	33.00000	26.00000	19.50000	-3.6726	19.083	0.0	0.0
	34.00000	26.00000	19.50000	-2.6731	19.083	0.0	0.0
	35.00000	26.00000	19.50000	-1.6749	19.083	0.0	0.0
	36.00000	26.00000	19.50000	-1.1665	19.083	0.0	0.0
	37.00000	26.00000	19.50000	-0.81444	19.083	0.0	0.0
	38.00000	26.00000	19.50000	-0.55657	19.083	0.0	0.0
	39.00000	26.00000	19.50000	-0.36241	19.083	0.0	0.0
	40.00000	26.00000	19.50000	-0.21409	19.083	0.0	0.0
	41.00000	26.00000	19.50000	-0.09902	19.083	0.0	0.0
	42.00000	26.00000	19.50000	-0.011731	19.083	0.0	0.0
	43.00000	26.00000	19.50000	0.056313	19.083	0.0	0.0
	44.00000	26.00000	19.50000	0.10861	19.083	0.0	0.0
	45.00000	26.00000	19.50000	0.14849	19.083	0.0	0.0
	46.00000	26.00000	19.50000	0.17852	19.083	0.0	0.0
	47.00000	26.00000	19.50000	0.20072	19.083	0.0	0.0
	48.00000	26.00000	19.50000	0.21666	19.083	0.0	0.0
	49.00000	26.00000	19.50000	0.22760	19.083	0.0	0.0
	50.00000	26.00000	19.50000	0.23455	19.083	0.0	0.0
	51.00000	26.00000	19.50000	0.23833	19.083	0.0	0.0
	52.00000	26.00000	19.50000	0.23958	19.083	0.0	0.0
	53.00000	26.00000	19.50000	0.23885	19.083	0.0	0.0
	54.00000	26.00000	19.50000	0.23655	19.083	0.0	0.0
	55.00000	26.00000	19.50000	0.23304	19.083	0.0	0.0
	-25.00000	27.00000	19.50000	0.20605	19.083	0.0	0.0
	-24.00000	27.00000	19.50000	0.21069	19.083	0.0	0.0
	-23.00000	27.00000	19.50000	0.21479	19.083	0.0	0.0
	-22.00000	27.00000	19.50000	0.21818	19.083	0.0	0.0
	-21.00000	27.00000	19.50000	0.22063	19.083	0.0	0.0
	-20.00000	27.00000	19.50000	0.22191	19.083	0.0	0.0
	-19.00000	27.00000	19.50000	0.22170	19.083	0.0	0.0
	-18.00000	27.00000	19.50000	0.21962	19.083	0.0	0.0
	-17.00000	27.00000	19.50000	0.21524	19.083	0.0	0.0
	-16.00000	27.00000	19.50000	0.20789	19.083	0.0	0.0
	-15.00000	27.00000	19.50000	0.19721	19.083	0.0	0.0
	-14.00000	27.00000	19.50000	0.18208	19.083	0.0	0.0
	-13.00000	27.00000	19.50000	0.16162	19.083	0.0	0.0
	-12.00000	27.00000	19.50000	0.13459	19.083	0.0	0.0
	-11.00000	27.00000	19.50000	0.099482	19.083	0.0	0.0
	-10.00000	27.00000	19.50000	0.054936	19.083	0.0	0.0
	-9.00000	27.00000	19.50000	-0.0028915	19.083	0.0	0.0
	-8.00000	27.00000	19.50000	-0.075441	19.083	0.0	0.0
	-7.00000	27.00000	19.50000	-0.16696	19.083	0.0	0.0
	-6.00000	27.00000	19.50000	-0.28229	19.083	0.0	0.0
	-5.00000	27.00000	19.50000	-0.42778	19.083	0.0	0.0
	-4.00000	27.00000	19.50000	-0.61200	19.083	0.0	0.0
	-3.00000	27.00000	19.50000	-0.84679	19.083	0.0	0.0
	-2.00000	27.00000	19.50000	-1.1490	19.083	0.0	0.0
	-1.00000	27.00000	19.50000	-1.5410	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
0.00000	27.00000	19.50000	-2.0287	19.083	0.0	0.0	0.0
1.00000	27.00000	19.50000	-2.5163	19.083	0.0	0.0	0.0
2.00000	27.00000	19.50000	-2.9076	19.083	0.0	0.0	0.0
3.00000	27.00000	19.50000	-3.2087	19.083	0.0	0.0	0.0
4.00000	27.00000	19.50000	-3.4419	19.083	0.0	0.0	0.0
5.00000	27.00000	19.50000	-3.6238	19.083	0.0	0.0	0.0
6.00000	27.00000	19.50000	-3.7663	19.083	0.0	0.0	0.0
7.00000	27.00000	19.50000	-3.8777	19.083	0.0	0.0	0.0
8.00000	27.00000	19.50000	-3.9642	19.083	0.0	0.0	0.0
9.00000	27.00000	19.50000	-4.0303	19.083	0.0	0.0	0.0
10.00000	27.00000	19.50000	-4.0797	19.083	0.0	0.0	0.0
11.00000	27.00000	19.50000	-4.1148	19.083	0.0	0.0	0.0
12.00000	27.00000	19.50000	-4.1375	19.083	0.0	0.0	0.0
13.00000	27.00000	19.50000	-4.1493	19.083	0.0	0.0	0.0
14.00000	27.00000	19.50000	-4.1511	19.083	0.0	0.0	0.0
15.00000	27.00000	19.50000	-4.1433	19.083	0.0	0.0	0.0
16.00000	27.00000	19.50000	-4.1258	19.083	0.0	0.0	0.0
17.00000	27.00000	19.50000	-4.0980	19.083	0.0	0.0	0.0
18.00000	27.00000	19.50000	-4.0579	19.083	0.0	0.0	0.0
19.00000	27.00000	19.50000	-4.0011	19.083	0.0	0.0	0.0
20.00000	27.00000	19.50000	-3.9229	19.083	0.0	0.0	0.0
21.00000	27.00000	19.50000	-3.8393	19.083	0.0	0.0	0.0
22.00000	27.00000	19.50000	-3.7658	19.083	0.0	0.0	0.0
23.00000	27.00000	19.50000	-3.6968	19.083	0.0	0.0	0.0
24.00000	27.00000	19.50000	-3.6267	19.083	0.0	0.0	0.0
25.00000	27.00000	19.50000	-3.5513	19.083	0.0	0.0	0.0
26.00000	27.00000	19.50000	-3.4668	19.083	0.0	0.0	0.0
27.00000	27.00000	19.50000	-3.3694	19.083	0.0	0.0	0.0
28.00000	27.00000	19.50000	-3.2540	19.083	0.0	0.0	0.0
29.00000	27.00000	19.50000	-3.1145	19.083	0.0	0.0	0.0
30.00000	27.00000	19.50000	-2.9428	19.083	0.0	0.0	0.0
31.00000	27.00000	19.50000	-2.7279	19.083	0.0	0.0	0.0
32.00000	27.00000	19.50000	-2.4549	19.083	0.0	0.0	0.0
33.00000	27.00000	19.50000	-2.1055	19.083	0.0	0.0	0.0
34.00000	27.00000	19.50000	-1.6779	19.083	0.0	0.0	0.0
35.00000	27.00000	19.50000	-1.2517	19.083	0.0	0.0	0.0
36.00000	27.00000	19.50000	-0.90613	19.083	0.0	0.0	0.0
37.00000	27.00000	19.50000	-0.63964	19.083	0.0	0.0	0.0
38.00000	27.00000	19.50000	-0.43394	19.083	0.0	0.0	0.0
39.00000	27.00000	19.50000	-0.27425	19.083	0.0	0.0	0.0
40.00000	27.00000	19.50000	-0.14980	19.083	0.0	0.0	0.0
41.00000	27.00000	19.50000	-0.052667	19.083	0.0	0.0	0.0
42.00000	27.00000	19.50000	0.023063	19.083	0.0	0.0	0.0
43.00000	27.00000	19.50000	0.081889	19.083	0.0	0.0	0.0
44.00000	27.00000	19.50000	0.12728	19.083	0.0	0.0	0.0
45.00000	27.00000	19.50000	0.16195	19.083	0.0	0.0	0.0
46.00000	27.00000	19.50000	0.18804	19.083	0.0	0.0	0.0
47.00000	27.00000	19.50000	0.20722	19.083	0.0	0.0	0.0
48.00000	27.00000	19.50000	0.22087	19.083	0.0	0.0	0.0
49.00000	27.00000	19.50000	0.23008	19.083	0.0	0.0	0.0
50.00000	27.00000	19.50000	0.23571	19.083	0.0	0.0	0.0
51.00000	27.00000	19.50000	0.23850	19.083	0.0	0.0	0.0
52.00000	27.00000	19.50000	0.23902	19.083	0.0	0.0	0.0
53.00000	27.00000	19.50000	0.23774	19.083	0.0	0.0	0.0
54.00000	27.00000	19.50000	0.23505	19.083	0.0	0.0	0.0
55.00000	27.00000	19.50000	0.23126	19.083	0.0	0.0	0.0
-25.00000	28.00000	19.50000	0.20417	19.083	0.0	0.0	0.0
-24.00000	28.00000	19.50000	0.20891	19.083	0.0	0.0	0.0
-23.00000	28.00000	19.50000	0.21317	19.083	0.0	0.0	0.0
-22.00000	28.00000	19.50000	0.21677	19.083	0.0	0.0	0.0
-21.00000	28.00000	19.50000	0.21955	19.083	0.0	0.0	0.0
-20.00000	28.00000	19.50000	0.22126	19.083	0.0	0.0	0.0
-19.00000	28.00000	19.50000	0.22163	19.083	0.0	0.0	0.0
-18.00000	28.00000	19.50000	0.22032	19.083	0.0	0.0	0.0
-17.00000	28.00000	19.50000	0.21695	19.083	0.0	0.0	0.0
-16.00000	28.00000	19.50000	0.21101	19.083	0.0	0.0	0.0
-15.00000	28.00000	19.50000	0.20193	19.083	0.0	0.0	0.0
-14.00000	28.00000	19.50000	0.18900	19.083	0.0	0.0	0.0
-13.00000	28.00000	19.50000	0.17137	19.083	0.0	0.0	0.0
-12.00000	28.00000	19.50000	0.14799	19.083	0.0	0.0	0.0
-11.00000	28.00000	19.50000	0.11759	19.083	0.0	0.0	0.0
-10.00000	28.00000	19.50000	0.078655	19.083	0.0	0.0	0.0
-9.00000	28.00000	19.50000	0.029287	19.083	0.0	0.0	0.0
-8.00000	28.00000	19.50000	-0.032818	19.083	0.0	0.0	0.0
-7.00000	28.00000	19.50000	-0.11049	19.083	0.0	0.0	0.0
-6.00000	28.00000	19.50000	-0.20721	19.083	0.0	0.0	0.0
-5.00000	28.00000	19.50000	-0.32725	19.083	0.0	0.0	0.0
-4.00000	28.00000	19.50000	-0.47575	19.083	0.0	0.0	0.0
-3.00000	28.00000	19.50000	-0.65865	19.083	0.0	0.0	0.0
-2.00000	28.00000	19.50000	-0.88178	19.083	0.0	0.0	0.0
-1.00000	28.00000	19.50000	-1.1473	19.083	0.0	0.0	0.0
0.00000	28.00000	19.50000	-1.4441	19.083	0.0	0.0	0.0
1.00000	28.00000	19.50000	-1.7408	19.083	0.0	0.0	0.0
2.00000	28.00000	19.50000	-2.0058	19.083	0.0	0.0	0.0
3.00000	28.00000	19.50000	-2.2280	19.083	0.0	0.0	0.0
4.00000	28.00000	19.50000	-2.4095	19.083	0.0	0.0	0.0
5.00000	28.00000	19.50000	-2.5561	19.083	0.0	0.0	0.0
6.00000	28.00000	19.50000	-2.6735	19.083	0.0	0.0	0.0
7.00000	28.00000	19.50000	-2.7669	19.083	0.0	0.0	0.0
8.00000	28.00000	19.50000	-2.8403	19.083	0.0	0.0	0.0
9.00000	28.00000	19.50000	-2.8970	19.083	0.0	0.0	0.0
10.00000	28.00000	19.50000	-2.9395	19.083	0.0	0.0	0.0
11.00000	28.00000	19.50000	-2.9699	19.083	0.0	0.0	0.0
12.00000	28.00000	19.50000	-2.9898	19.083	0.0	0.0	0.0
13.00000	28.00000	19.50000	-3.0002	19.083	0.0	0.0	0.0
14.00000	28.00000	19.50000	-3.0020	19.083	0.0	0.0	0.0
15.00000	28.00000	19.50000	-2.9956	19.083	0.0	0.0	0.0
16.00000	28.00000	19.50000	-2.9813	19.083	0.0	0.0	0.0
17.00000	28.00000	19.50000	-2.9589	19.083	0.0	0.0	0.0
18.00000	28.00000	19.50000	-2.9279	19.083	0.0	0.0	0.0
19.00000	28.00000	19.50000	-2.8878	19.083	0.0	0.0	0.0
20.00000	28.00000	19.50000	-2.8394	19.083	0.0	0.0	0.0
21.00000	28.00000	19.50000	-2.7862	19.083	0.0	0.0	0.0
22.00000	28.00000	19.50000	-2.7315	19.083	0.0	0.0	0.0
23.00000	28.00000	19.50000	-2.6753	19.083	0.0	0.0	0.0
24.00000	28.00000	19.50000	-2.6160	19.083	0.0	0.0	0.0
25.00000	28.00000	19.50000	-2.5513	19.083	0.0	0.0	0.0
26.00000	28.00000	19.50000	-2.4789	19.083	0.0	0.0	0.0
27.00000	28.00000	19.50000	-2.3958	19.083	0.0	0.0	0.0
28.00000	28.00000	19.50000	-2.2985	19.083	0.0	0.0	0.0
29.00000	28.00000	19.50000	-2.1829	19.083	0.0	0.0	0.0
30.00000	28.00000	19.50000	-2.0441	19.083	0.0	0.0	0.0
31.00000	28.00000	19.50000	-1.8763	19.083	0.0	0.0	0.0
32.00000	28.00000	19.50000	-1.6742	19.083	0.0	0.0	0.0
33.00000	28.00000	19.50000	-1.4359	19.083	0.0	0.0	0.0
34.00000	28.00000	19.50000	-1.1715	19.083	0.0	0.0	0.0
35.00000	28.00000	19.50000	-0.90816	19.083	0.0	0.0	0.0
36.00000	28.00000	19.50000	-0.67344	19.083	0.0	0.0	0.0
37.00000	28.00000	19.50000	-0.47727	19.083	0.0	0.0	0.0
38.00000	28.00000	19.50000	-0.31787	19.083	0.0	0.0	0.0
39.00000	28.00000	19.50000	-0.18993	19.083	0.0	0.0	0.0
40.00000	28.00000	19.50000	-0.087933	19.083	0.0	0.0	0.0
41.00000	28.00000	19.50000	-0.0070496	19.083	0.0	0.0	0.0
42.00000	28.00000	19.50000	0.056719	19.083	0.0	0.0	0.0
43.00000	28.00000	19.50000	0.10663	19.083	0.0	0.0	0.0
44.00000	28.00000	19.50000	0.14532	19.083	0.0	0.0	0.0
45.00000	28.00000	19.50000	0.17491	19.083	0.0	0.0	0.0
46.00000	28.00000	19.50000	0.19713	19.083	0.0	0.0	0.0
47.00000	28.00000	19.50000	0.21338	19.083	0.0	0.0	0.0
48.00000	28.00000	19.50000	0.22478	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	49.00000	28.00000	19.50000	0.23228	19.083	0.0	0.0
	50.00000	28.00000	19.50000	0.23663	19.083	0.0	0.0
	51.00000	28.00000	19.50000	0.23844	19.083	0.0	0.0
	52.00000	28.00000	19.50000	0.23824	19.083	0.0	0.0
	53.00000	28.00000	19.50000	0.23643	19.083	0.0	0.0
	54.00000	28.00000	19.50000	0.23336	19.083	0.0	0.0
	55.00000	28.00000	19.50000	0.22931	19.083	0.0	0.0
	-25.00000	29.00000	19.50000	0.20215	19.083	0.0	0.0
	-24.00000	29.00000	19.50000	0.20698	19.083	0.0	0.0
	-23.00000	29.00000	19.50000	0.21138	19.083	0.0	0.0
	-22.00000	29.00000	19.50000	0.21520	19.083	0.0	0.0
	-21.00000	29.00000	19.50000	0.21828	19.083	0.0	0.0
	-20.00000	29.00000	19.50000	0.22040	19.083	0.0	0.0
	-19.00000	29.00000	19.50000	0.22134	19.083	0.0	0.0
	-18.00000	29.00000	19.50000	0.22078	19.083	0.0	0.0
	-17.00000	29.00000	19.50000	0.21838	19.083	0.0	0.0
	-16.00000	29.00000	19.50000	0.21372	19.083	0.0	0.0
	-15.00000	29.00000	19.50000	0.20629	19.083	0.0	0.0
	-14.00000	29.00000	19.50000	0.19548	19.083	0.0	0.0
	-13.00000	29.00000	19.50000	0.18057	19.083	0.0	0.0
	-12.00000	29.00000	19.50000	0.16069	19.083	0.0	0.0
	-11.00000	29.00000	19.50000	0.13481	19.083	0.0	0.0
	-10.00000	29.00000	19.50000	0.10169	19.083	0.0	0.0
	-9.00000	29.00000	19.50000	0.059860	19.083	0.0	0.0
	-8.00000	29.00000	19.50000	0.0075607	19.083	0.0	0.0
	-7.00000	29.00000	19.50000	-0.057258	19.083	0.0	0.0
	-6.00000	29.00000	19.50000	-0.13698	19.083	0.0	0.0
	-5.00000	29.00000	19.50000	-0.23427	19.083	0.0	0.0
	-4.00000	29.00000	19.50000	-0.35194	19.083	0.0	0.0
	-3.00000	29.00000	19.50000	-0.49249	19.083	0.0	0.0
	-2.00000	29.00000	19.50000	-0.65710	19.083	0.0	0.0
	-1.00000	29.00000	19.50000	-0.84356	19.083	0.0	0.0
	0.00000	29.00000	19.50000	-1.0438	19.083	0.0	0.0
	1.00000	29.00000	19.50000	-1.2438	19.083	0.0	0.0
	2.00000	29.00000	19.50000	-1.4299	19.083	0.0	0.0
	3.00000	29.00000	19.50000	-1.5937	19.083	0.0	0.0
	4.00000	29.00000	19.50000	-1.7331	19.083	0.0	0.0
	5.00000	29.00000	19.50000	-1.8492	19.083	0.0	0.0
	6.00000	29.00000	19.50000	-1.9444	19.083	0.0	0.0
	7.00000	29.00000	19.50000	-2.0213	19.083	0.0	0.0
	8.00000	29.00000	19.50000	-2.0825	19.083	0.0	0.0
	9.00000	29.00000	19.50000	-2.1303	19.083	0.0	0.0
	10.00000	29.00000	19.50000	-2.1664	19.083	0.0	0.0
	11.00000	29.00000	19.50000	-2.1924	19.083	0.0	0.0
	12.00000	29.00000	19.50000	-2.2095	19.083	0.0	0.0
	13.00000	29.00000	19.50000	-2.2185	19.083	0.0	0.0
	14.00000	29.00000	19.50000	-2.2203	19.083	0.0	0.0
	15.00000	29.00000	19.50000	-2.2152	19.083	0.0	0.0
	16.00000	29.00000	19.50000	-2.2035	19.083	0.0	0.0
	17.00000	29.00000	19.50000	-2.1855	19.083	0.0	0.0
	18.00000	29.00000	19.50000	-2.1612	19.083	0.0	0.0
	19.00000	29.00000	19.50000	-2.1308	19.083	0.0	0.0
	20.00000	29.00000	19.50000	-2.0951	19.083	0.0	0.0
	21.00000	29.00000	19.50000	-2.0552	19.083	0.0	0.0
	22.00000	29.00000	19.50000	-2.0121	19.083	0.0	0.0
	23.00000	29.00000	19.50000	-1.9660	19.083	0.0	0.0
	24.00000	29.00000	19.50000	-1.9163	19.083	0.0	0.0
	25.00000	29.00000	19.50000	-1.8616	19.083	0.0	0.0
	26.00000	29.00000	19.50000	-1.8003	19.083	0.0	0.0
	27.00000	29.00000	19.50000	-1.7305	19.083	0.0	0.0
	28.00000	29.00000	19.50000	-1.6498	19.083	0.0	0.0
	29.00000	29.00000	19.50000	-1.5556	19.083	0.0	0.0
	30.00000	29.00000	19.50000	-1.4451	19.083	0.0	0.0
	31.00000	29.00000	19.50000	-1.3159	19.083	0.0	0.0
	32.00000	29.00000	19.50000	-1.1666	19.083	0.0	0.0
	33.00000	29.00000	19.50000	-0.99110	19.083	0.0	0.0
	34.00000	29.00000	19.50000	-0.82044	19.083	0.0	0.0
	35.00000	29.00000	19.50000	-0.64286	19.083	0.0	0.0
	36.00000	29.00000	19.50000	-0.47854	19.083	0.0	0.0
	37.00000	29.00000	19.50000	-0.33464	19.083	0.0	0.0
	38.00000	29.00000	19.50000	-0.21200	19.083	0.0	0.0
	39.00000	29.00000	19.50000	-0.11240	19.083	0.0	0.0
	40.00000	29.00000	19.50000	-0.030403	19.083	0.0	0.0
	41.00000	29.00000	19.50000	0.035672	19.083	0.0	0.0
	42.00000	29.00000	19.50000	0.088369	19.083	0.0	0.0
	43.00000	29.00000	19.50000	0.12393	19.083	0.0	0.0
	44.00000	29.00000	19.50000	0.16229	19.083	0.0	0.0
	45.00000	29.00000	19.50000	0.18706	19.083	0.0	0.0
	46.00000	29.00000	19.50000	0.20559	19.083	0.0	0.0
	47.00000	29.00000	19.50000	0.21902	19.083	0.0	0.0
	48.00000	29.00000	19.50000	0.22827	19.083	0.0	0.0
	49.00000	29.00000	19.50000	0.23413	19.083	0.0	0.0
	50.00000	29.00000	19.50000	0.23723	19.083	0.0	0.0
	51.00000	29.00000	19.50000	0.23811	19.083	0.0	0.0
	52.00000	29.00000	19.50000	0.23721	19.083	0.0	0.0
	53.00000	29.00000	19.50000	0.23490	19.083	0.0	0.0
	54.00000	29.00000	19.50000	0.23147	19.083	0.0	0.0
	55.00000	29.00000	19.50000	0.22718	19.083	0.0	0.0
	-25.00000	30.00000	19.50000	0.20000	19.083	0.0	0.0
	-24.00000	30.00000	19.50000	0.20490	19.083	0.0	0.0
	-23.00000	30.00000	19.50000	0.20943	19.083	0.0	0.0
	-22.00000	30.00000	19.50000	0.21345	19.083	0.0	0.0
	-21.00000	30.00000	19.50000	0.21681	19.083	0.0	0.0
	-20.00000	30.00000	19.50000	0.21933	19.083	0.0	0.0
	-19.00000	30.00000	19.50000	0.22080	19.083	0.0	0.0
	-18.00000	30.00000	19.50000	0.22095	19.083	0.0	0.0
	-17.00000	30.00000	19.50000	0.21949	19.083	0.0	0.0
	-16.00000	30.00000	19.50000	0.21604	19.083	0.0	0.0
	-15.00000	30.00000	19.50000	0.21017	19.083	0.0	0.0
	-14.00000	30.00000	19.50000	0.20137	19.083	0.0	0.0
	-13.00000	30.00000	19.50000	0.18905	19.083	0.0	0.0
	-12.00000	30.00000	19.50000	0.17248	19.083	0.0	0.0
	-11.00000	30.00000	19.50000	0.15083	19.083	0.0	0.0
	-10.00000	30.00000	19.50000	0.12312	19.083	0.0	0.0
	-9.00000	30.00000	19.50000	0.088240	19.083	0.0	0.0
	-8.00000	30.00000	19.50000	0.044690	19.083	0.0	0.0
	-7.00000	30.00000	19.50000	-0.0083693	19.083	0.0	0.0
	-6.00000	30.00000	19.50000	-0.073095	19.083	0.0	0.0
	-5.00000	30.00000	19.50000	-0.15086	19.083	0.0	0.0
	-4.00000	30.00000	19.50000	-0.24306	19.083	0.0	0.0
	-3.00000	30.00000	19.50000	-0.35050	19.083	0.0	0.0
	-2.00000	30.00000	19.50000	-0.47277	19.083	0.0	0.0
	-1.00000	30.00000	19.50000	-0.60736	19.083	0.0	0.0
	0.00000	30.00000	19.50000	-0.74908	19.083	0.0	0.0
	1.00000	30.00000	19.50000	-0.89070	19.083	0.0	0.0
	2.00000	30.00000	19.50000	-1.0249	19.083	0.0	0.0
	3.00000	30.00000	19.50000	-1.1466	19.083	0.0	0.0
	4.00000	30.00000	19.50000	-1.2532	19.083	0.0	0.0
	5.00000	30.00000	19.50000	-1.3441	19.083	0.0	0.0
	6.00000	30.00000	19.50000	-1.4202	19.083	0.0	0.0
	7.00000	30.00000	19.50000	-1.4827	19.083	0.0	0.0
	8.00000	30.00000	19.50000	-1.5330	19.083	0.0	0.0
	9.00000	30.00000	19.50000	-1.5727	19.083	0.0	0.0
	10.00000	30.00000	19.50000	-1.6029	19.083	0.0	0.0
	11.00000	30.00000	19.50000	-1.6248	19.083	0.0	0.0
	12.00000	30.00000	19.50000	-1.6392	19.083	0.0	0.0
	13.00000	30.00000	19.50000	-1.6470	19.083	0.0	0.0
	14.00000	30.00000	19.50000	-1.6486	19.083	0.0	0.0
	15.00000	30.00000	19.50000	-1.6445	19.083	0.0	0.0
	16.00000	30.00000	19.50000	-1.6351	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	17.00000	30.00000	19.50000	-1.6205	19.083	0.0	0.0
	18.00000	30.00000	19.50000	-1.6011	19.083	0.0	0.0
	19.00000	30.00000	19.50000	-1.5772	19.083	0.0	0.0
	20.00000	30.00000	19.50000	-1.5492	19.083	0.0	0.0
	21.00000	30.00000	19.50000	-1.5176	19.083	0.0	0.0
	22.00000	30.00000	19.50000	-1.4828	19.083	0.0	0.0
	23.00000	30.00000	19.50000	-1.4449	19.083	0.0	0.0
	24.00000	30.00000	19.50000	-1.4035	19.083	0.0	0.0
	25.00000	30.00000	19.50000	-1.3577	19.083	0.0	0.0
	26.00000	30.00000	19.50000	-1.3065	19.083	0.0	0.0
	27.00000	30.00000	19.50000	-1.2486	19.083	0.0	0.0
	28.00000	30.00000	19.50000	-1.1825	19.083	0.0	0.0
	29.00000	30.00000	19.50000	-1.1067	19.083	0.0	0.0
	30.00000	30.00000	19.50000	-1.0198	19.083	0.0	0.0
	31.00000	30.00000	19.50000	-0.92074	19.083	0.0	0.0
	32.00000	30.00000	19.50000	-0.80980	19.083	0.0	0.0
	33.00000	30.00000	19.50000	-0.68901	19.083	0.0	0.0
	34.00000	30.00000	19.50000	-0.56286	19.083	0.0	0.0
	35.00000	30.00000	19.50000	-0.43768	19.083	0.0	0.0
	36.00000	30.00000	19.50000	-0.31980	19.083	0.0	0.0
	37.00000	30.00000	19.50000	-0.21371	19.083	0.0	0.0
	38.00000	30.00000	19.50000	-0.12151	19.083	0.0	0.0
	39.00000	30.00000	19.50000	-0.043406	19.083	0.0	0.0
	40.00000	30.00000	19.50000	0.021486	19.083	0.0	0.0
	41.00000	30.00000	19.50000	0.074556	19.083	0.0	0.0
	42.00000	30.00000	19.50000	0.11734	19.083	0.0	0.0
	43.00000	30.00000	19.50000	0.15131	19.083	0.0	0.0
	44.00000	30.00000	19.50000	0.17785	19.083	0.0	0.0
	45.00000	30.00000	19.50000	0.19814	19.083	0.0	0.0
	46.00000	30.00000	19.50000	0.21324	19.083	0.0	0.0
	47.00000	30.00000	19.50000	0.22402	19.083	0.0	0.0
	48.00000	30.00000	19.50000	0.23125	19.083	0.0	0.0
	49.00000	30.00000	19.50000	0.23556	19.083	0.0	0.0
	50.00000	30.00000	19.50000	0.23749	19.083	0.0	0.0
	51.00000	30.00000	19.50000	0.23749	19.083	0.0	0.0
	52.00000	30.00000	19.50000	0.23593	19.083	0.0	0.0
	53.00000	30.00000	19.50000	0.23314	19.083	0.0	0.0
	54.00000	30.00000	19.50000	0.22938	19.083	0.0	0.0
	55.00000	30.00000	19.50000	0.22485	19.083	0.0	0.0
	-25.00000	31.00000	19.50000	0.19770	19.083	0.0	0.0
	-24.00000	31.00000	19.50000	0.20267	19.083	0.0	0.0
	-23.00000	31.00000	19.50000	0.20732	19.083	0.0	0.0
	-22.00000	31.00000	19.50000	0.21152	19.083	0.0	0.0
	-21.00000	31.00000	19.50000	0.21514	19.083	0.0	0.0
	-20.00000	31.00000	19.50000	0.21803	19.083	0.0	0.0
	-19.00000	31.00000	19.50000	0.22000	19.083	0.0	0.0
	-18.00000	31.00000	19.50000	0.22082	19.083	0.0	0.0
	-17.00000	31.00000	19.50000	0.22023	19.083	0.0	0.0
	-16.00000	31.00000	19.50000	0.21791	19.083	0.0	0.0
	-15.00000	31.00000	19.50000	0.21351	19.083	0.0	0.0
	-14.00000	31.00000	19.50000	0.20659	19.083	0.0	0.0
	-13.00000	31.00000	19.50000	0.19666	19.083	0.0	0.0
	-12.00000	31.00000	19.50000	0.18315	19.083	0.0	0.0
	-11.00000	31.00000	19.50000	0.16538	19.083	0.0	0.0
	-10.00000	31.00000	19.50000	0.14261	19.083	0.0	0.0
	-9.00000	31.00000	19.50000	0.11400	19.083	0.0	0.0
	-8.00000	31.00000	19.50000	0.078624	19.083	0.0	0.0
	-7.00000	31.00000	19.50000	0.035490	19.083	0.0	0.0
	-6.00000	31.00000	19.50000	-0.016377	19.083	0.0	0.0
	-5.00000	31.00000	19.50000	-0.077856	19.083	0.0	0.0
	-4.00000	31.00000	19.50000	-0.14955	19.083	0.0	0.0
	-3.00000	31.00000	19.50000	-0.23153	19.083	0.0	0.0
	-2.00000	31.00000	19.50000	-0.32298	19.083	0.0	0.0
	-1.00000	31.00000	19.50000	-0.42186	19.083	0.0	0.0
	0.00000	31.00000	19.50000	-0.52487	19.083	0.0	0.0
	1.00000	31.00000	19.50000	-0.62780	19.083	0.0	0.0
	2.00000	31.00000	19.50000	-0.72644	19.083	0.0	0.0
	3.00000	31.00000	19.50000	-0.81744	19.083	0.0	0.0
	4.00000	31.00000	19.50000	-0.89875	19.083	0.0	0.0
	5.00000	31.00000	19.50000	-0.96950	19.083	0.0	0.0
	6.00000	31.00000	19.50000	-1.0297	19.083	0.0	0.0
	7.00000	31.00000	19.50000	-1.0798	19.083	0.0	0.0
	8.00000	31.00000	19.50000	-1.1207	19.083	0.0	0.0
	9.00000	31.00000	19.50000	-1.1532	19.083	0.0	0.0
	10.00000	31.00000	19.50000	-1.1781	19.083	0.0	0.0
	11.00000	31.00000	19.50000	-1.1963	19.083	0.0	0.0
	12.00000	31.00000	19.50000	-1.2083	19.083	0.0	0.0
	13.00000	31.00000	19.50000	-1.2148	19.083	0.0	0.0
	14.00000	31.00000	19.50000	-1.2162	19.083	0.0	0.0
	15.00000	31.00000	19.50000	-1.2129	19.083	0.0	0.0
	16.00000	31.00000	19.50000	-1.2053	19.083	0.0	0.0
	17.00000	31.00000	19.50000	-1.1935	19.083	0.0	0.0
	18.00000	31.00000	19.50000	-1.1779	19.083	0.0	0.0
	19.00000	31.00000	19.50000	-1.1586	19.083	0.0	0.0
	20.00000	31.00000	19.50000	-1.1362	19.083	0.0	0.0
	21.00000	31.00000	19.50000	-1.1107	19.083	0.0	0.0
	22.00000	31.00000	19.50000	-1.0823	19.083	0.0	0.0
	23.00000	31.00000	19.50000	-1.0511	19.083	0.0	0.0
	24.00000	31.00000	19.50000	-1.0168	19.083	0.0	0.0
	25.00000	31.00000	19.50000	-0.97883	19.083	0.0	0.0
	26.00000	31.00000	19.50000	-0.93655	19.083	0.0	0.0
	27.00000	31.00000	19.50000	-0.88912	19.083	0.0	0.0
	28.00000	31.00000	19.50000	-0.83563	19.083	0.0	0.0
	29.00000	31.00000	19.50000	-0.77521	19.083	0.0	0.0
	30.00000	31.00000	19.50000	-0.70719	19.083	0.0	0.0
	31.00000	31.00000	19.50000	-0.63139	19.083	0.0	0.0
	32.00000	31.00000	19.50000	-0.54837	19.083	0.0	0.0
	33.00000	31.00000	19.50000	-0.45978	19.083	0.0	0.0
	34.00000	31.00000	19.50000	-0.36845	19.083	0.0	0.0
	35.00000	31.00000	19.50000	-0.27800	19.083	0.0	0.0
	36.00000	31.00000	19.50000	-0.19203	19.083	0.0	0.0
	37.00000	31.00000	19.50000	-0.11338	19.083	0.0	0.0
	38.00000	31.00000	19.50000	-0.043719	19.083	0.0	0.0
	39.00000	31.00000	19.50000	0.016364	19.083	0.0	0.0
	40.00000	31.00000	19.50000	0.067062	19.083	0.0	0.0
	41.00000	31.00000	19.50000	0.10904	19.083	0.0	0.0
	42.00000	31.00000	19.50000	0.14317	19.083	0.0	0.0
	43.00000	31.00000	19.50000	0.17043	19.083	0.0	0.0
	44.00000	31.00000	19.50000	0.19174	19.083	0.0	0.0
	45.00000	31.00000	19.50000	0.20797	19.083	0.0	0.0
	46.00000	31.00000	19.50000	0.21992	19.083	0.0	0.0
	47.00000	31.00000	19.50000	0.22828	19.083	0.0	0.0
	48.00000	31.00000	19.50000	0.23363	19.083	0.0	0.0
	49.00000	31.00000	19.50000	0.23651	19.083	0.0	0.0
	50.00000	31.00000	19.50000	0.23735	19.083	0.0	0.0
	51.00000	31.00000	19.50000	0.23653	19.083	0.0	0.0
	52.00000	31.00000	19.50000	0.23437	19.083	0.0	0.0
	53.00000	31.00000	19.50000	0.23114	19.083	0.0	0.0
	54.00000	31.00000	19.50000	0.22707	19.083	0.0	0.0
	55.00000	31.00000	19.50000	0.22234	19.083	0.0	0.0
	-25.00000	32.00000	19.50000	0.19528	19.083	0.0	0.0
	-24.00000	32.00000	19.50000	0.20030	19.083	0.0	0.0
	-23.00000	32.00000	19.50000	0.20504	19.083	0.0	0.0
	-22.00000	32.00000	19.50000	0.20940	19.083	0.0	0.0
	-21.00000	32.00000	19.50000	0.21326	19.083	0.0	0.0
	-20.00000	32.00000	19.50000	0.21649	19.083	0.0	0.0
	-19.00000	32.00000	19.50000	0.21891	19.083	0.0	0.0
	-18.00000	32.00000	19.50000	0.22035	19.083	0.0	0.0
	-17.00000	32.00000	19.50000	0.22056	19.083	0.0	0.0
	-16.00000	32.00000	19.50000	0.21929	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-15.00000	32.00000	19.50000	0.21624	19.083	0.0	0.0
	-14.00000	32.00000	19.50000	0.21104	19.083	0.0	0.0
	-13.00000	32.00000	19.50000	0.20331	19.083	0.0	0.0
	-12.00000	32.00000	19.50000	0.19257	19.083	0.0	0.0
	-11.00000	32.00000	19.50000	0.17831	19.083	0.0	0.0
	-10.00000	32.00000	19.50000	0.15996	19.083	0.0	0.0
	-9.00000	32.00000	19.50000	0.13689	19.083	0.0	0.0
	-8.00000	32.00000	19.50000	0.10847	19.083	0.0	0.0
	-7.00000	32.00000	19.50000	0.074020	19.083	0.0	0.0
	-6.00000	32.00000	19.50000	0.032958	19.083	0.0	0.0
	-5.00000	32.00000	19.50000	-0.015181	19.083	0.0	0.0
	-4.00000	32.00000	19.50000	-0.070594	19.083	0.0	0.0
	-3.00000	32.00000	19.50000	-0.13306	19.083	0.0	0.0
	-2.00000	32.00000	19.50000	-0.20178	19.083	0.0	0.0
	-1.00000	32.00000	19.50000	-0.27523	19.083	0.0	0.0
	0.00000	32.00000	19.50000	-0.35124	19.083	0.0	0.0
	1.00000	32.00000	19.50000	-0.42719	19.083	0.0	0.0
	2.00000	32.00000	19.50000	-0.50048	19.083	0.0	0.0
	3.00000	32.00000	19.50000	-0.56890	19.083	0.0	0.0
	4.00000	32.00000	19.50000	-0.63091	19.083	0.0	0.0
	5.00000	32.00000	19.50000	-0.68677	19.083	0.0	0.0
	6.00000	32.00000	19.50000	-0.73289	19.083	0.0	0.0
	7.00000	32.00000	19.50000	-0.77270	19.083	0.0	0.0
	8.00000	32.00000	19.50000	-0.80549	19.083	0.0	0.0
	9.00000	32.00000	19.50000	-0.83175	19.083	0.0	0.0
	10.00000	32.00000	19.50000	-0.85203	19.083	0.0	0.0
	11.00000	32.00000	19.50000	-0.86685	19.083	0.0	0.0
	12.00000	32.00000	19.50000	-0.87671	19.083	0.0	0.0
	13.00000	32.00000	19.50000	-0.88203	19.083	0.0	0.0
	14.00000	32.00000	19.50000	-0.88319	19.083	0.0	0.0
	15.00000	32.00000	19.50000	-0.88051	19.083	0.0	0.0
	16.00000	32.00000	19.50000	-0.87426	19.083	0.0	0.0
	17.00000	32.00000	19.50000	-0.86468	19.083	0.0	0.0
	18.00000	32.00000	19.50000	-0.85200	19.083	0.0	0.0
	19.00000	32.00000	19.50000	-0.83645	19.083	0.0	0.0
	20.00000	32.00000	19.50000	-0.81823	19.083	0.0	0.0
	21.00000	32.00000	19.50000	-0.79751	19.083	0.0	0.0
	22.00000	32.00000	19.50000	-0.77437	19.083	0.0	0.0
	23.00000	32.00000	19.50000	-0.74877	19.083	0.0	0.0
	24.00000	32.00000	19.50000	-0.72054	19.083	0.0	0.0
	25.00000	32.00000	19.50000	-0.68936	19.083	0.0	0.0
	26.00000	32.00000	19.50000	-0.65479	19.083	0.0	0.0
	27.00000	32.00000	19.50000	-0.61632	19.083	0.0	0.0
	28.00000	32.00000	19.50000	-0.57340	19.083	0.0	0.0
	29.00000	32.00000	19.50000	-0.52561	19.083	0.0	0.0
	30.00000	32.00000	19.50000	-0.47266	19.083	0.0	0.0
	31.00000	32.00000	19.50000	-0.41467	19.083	0.0	0.0
	32.00000	32.00000	19.50000	-0.35222	19.083	0.0	0.0
	33.00000	32.00000	19.50000	-0.28654	19.083	0.0	0.0
	34.00000	32.00000	19.50000	-0.21945	19.083	0.0	0.0
	35.00000	32.00000	19.50000	-0.15315	19.083	0.0	0.0
	36.00000	32.00000	19.50000	-0.089828	19.083	0.0	0.0
	37.00000	32.00000	19.50000	-0.031311	19.083	0.0	0.0
	38.00000	32.00000	19.50000	0.021177	19.083	0.0	0.0
	39.00000	32.00000	19.50000	0.067035	19.083	0.0	0.0
	40.00000	32.00000	19.50000	0.10618	19.083	0.0	0.0
	41.00000	32.00000	19.50000	0.13888	19.083	0.0	0.0
	42.00000	32.00000	19.50000	0.16565	19.083	0.0	0.0
	43.00000	32.00000	19.50000	0.18707	19.083	0.0	0.0
	44.00000	32.00000	19.50000	0.20379	19.083	0.0	0.0
	45.00000	32.00000	19.50000	0.21642	19.083	0.0	0.0
	46.00000	32.00000	19.50000	0.22555	19.083	0.0	0.0
	47.00000	32.00000	19.50000	0.23171	19.083	0.0	0.0
	48.00000	32.00000	19.50000	0.23537	19.083	0.0	0.0
	49.00000	32.00000	19.50000	0.23694	19.083	0.0	0.0
	50.00000	32.00000	19.50000	0.23679	19.083	0.0	0.0
	51.00000	32.00000	19.50000	0.23523	19.083	0.0	0.0
	52.00000	32.00000	19.50000	0.23252	19.083	0.0	0.0
	53.00000	32.00000	19.50000	0.22890	19.083	0.0	0.0
	54.00000	32.00000	19.50000	0.22455	19.083	0.0	0.0
	55.00000	32.00000	19.50000	0.21965	19.083	0.0	0.0
	-25.00000	33.00000	19.50000	0.19272	19.083	0.0	0.0
	-24.00000	33.00000	19.50000	0.19777	19.083	0.0	0.0
	-23.00000	33.00000	19.50000	0.20260	19.083	0.0	0.0
	-22.00000	33.00000	19.50000	0.20709	19.083	0.0	0.0
	-21.00000	33.00000	19.50000	0.21117	19.083	0.0	0.0
	-20.00000	33.00000	19.50000	0.21470	19.083	0.0	0.0
	-19.00000	33.00000	19.50000	0.21754	19.083	0.0	0.0
	-18.00000	33.00000	19.50000	0.21953	19.083	0.0	0.0
	-17.00000	33.00000	19.50000	0.22047	19.083	0.0	0.0
	-16.00000	33.00000	19.50000	0.22015	19.083	0.0	0.0
	-15.00000	33.00000	19.50000	0.21832	19.083	0.0	0.0
	-14.00000	33.00000	19.50000	0.21469	19.083	0.0	0.0
	-13.00000	33.00000	19.50000	0.20892	19.083	0.0	0.0
	-12.00000	33.00000	19.50000	0.20066	19.083	0.0	0.0
	-11.00000	33.00000	19.50000	0.18951	19.083	0.0	0.0
	-10.00000	33.00000	19.50000	0.17505	19.083	0.0	0.0
	-9.00000	33.00000	19.50000	0.15681	19.083	0.0	0.0
	-8.00000	33.00000	19.50000	0.13434	19.083	0.0	0.0
	-7.00000	33.00000	19.50000	0.10723	19.083	0.0	0.0
	-6.00000	33.00000	19.50000	0.075108	19.083	0.0	0.0
	-5.00000	33.00000	19.50000	0.037769	19.083	0.0	0.0
	-4.00000	33.00000	19.50000	-0.0047957	19.083	0.0	0.0
	-3.00000	33.00000	19.50000	-0.052286	19.083	0.0	0.0
	-2.00000	33.00000	19.50000	-0.10402	19.083	0.0	0.0
	-1.00000	33.00000	19.50000	-0.15889	19.083	0.0	0.0
	0.00000	33.00000	19.50000	-0.21544	19.083	0.0	0.0
	1.00000	33.00000	19.50000	-0.27196	19.083	0.0	0.0
	2.00000	33.00000	19.50000	-0.32675	19.083	0.0	0.0
	3.00000	33.00000	19.50000	-0.37832	19.083	0.0	0.0
	4.00000	33.00000	19.50000	-0.42555	19.083	0.0	0.0
	5.00000	33.00000	19.50000	-0.46773	19.083	0.0	0.0
	6.00000	33.00000	19.50000	-0.50449	19.083	0.0	0.0
	7.00000	33.00000	19.50000	-0.53580	19.083	0.0	0.0
	8.00000	33.00000	19.50000	-0.56179	19.083	0.0	0.0
	9.00000	33.00000	19.50000	-0.58275	19.083	0.0	0.0
	10.00000	33.00000	19.50000	-0.59902	19.083	0.0	0.0
	11.00000	33.00000	19.50000	-0.61094	19.083	0.0	0.0
	12.00000	33.00000	19.50000	-0.61887	19.083	0.0	0.0
	13.00000	33.00000	19.50000	-0.62313	19.083	0.0	0.0
	14.00000	33.00000	19.50000	-0.62401	19.083	0.0	0.0
	15.00000	33.00000	19.50000	-0.62176	19.083	0.0	0.0
	16.00000	33.00000	19.50000	-0.61663	19.083	0.0	0.0
	17.00000	33.00000	19.50000	-0.60881	19.083	0.0	0.0
	18.00000	33.00000	19.50000	-0.59849	19.083	0.0	0.0
	19.00000	33.00000	19.50000	-0.58586	19.083	0.0	0.0
	20.00000	33.00000	19.50000	-0.57105	19.083	0.0	0.0
	21.00000	33.00000	19.50000	-0.55420	19.083	0.0	0.0
	22.00000	33.00000	19.50000	-0.53533	19.083	0.0	0.0
	23.00000	33.00000	19.50000	-0.51444	19.083	0.0	0.0
	24.00000	33.00000	19.50000	-0.49140	19.083	0.0	0.0
	25.00000	33.00000	19.50000	-0.46602	19.083	0.0	0.0
	26.00000	33.00000	19.50000	-0.43802	19.083	0.0	0.0
	27.00000	33.00000	19.50000	-0.40710	19.083	0.0	0.0
	28.00000	33.00000	19.50000	-0.37296	19.083	0.0	0.0
	29.00000	33.00000	19.50000	-0.33541	19.083	0.0	0.0
	30.00000	33.00000	19.50000	-0.29437	19.083	0.0	0.0
	31.00000	33.00000	19.50000	-0.25005	19.083	0.0	0.0
	32.00000	33.00000	19.50000	-0.20296	19.083	0.0	0.0
	33.00000	33.00000	19.50000	-0.15397	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	34.00000	33.00000	19.50000	-0.10430	19.083	0.0	0.0
	35.00000	33.00000	19.50000	-0.055329	19.083	0.0	0.0
	36.00000	33.00000	19.50000	-0.0084610	19.083	0.0	0.0
	37.00000	33.00000	19.50000	0.035105	19.083	0.0	0.0
	38.00000	33.00000	19.50000	0.074496	19.083	0.0	0.0
	39.00000	33.00000	19.50000	0.10920	19.083	0.0	0.0
	40.00000	33.00000	19.50000	0.13906	19.083	0.0	0.0
	41.00000	33.00000	19.50000	0.16414	19.083	0.0	0.0
	42.00000	33.00000	19.50000	0.18472	19.083	0.0	0.0
	43.00000	33.00000	19.50000	0.20118	19.083	0.0	0.0
	44.00000	33.00000	19.50000	0.21393	19.083	0.0	0.0
	45.00000	33.00000	19.50000	0.22341	19.083	0.0	0.0
	46.00000	33.00000	19.50000	0.23006	19.083	0.0	0.0
	47.00000	33.00000	19.50000	0.23428	19.083	0.0	0.0
	48.00000	33.00000	19.50000	0.23642	19.083	0.0	0.0
	49.00000	33.00000	19.50000	0.23683	19.083	0.0	0.0
	50.00000	33.00000	19.50000	0.23579	19.083	0.0	0.0
	51.00000	33.00000	19.50000	0.23357	19.083	0.0	0.0
	52.00000	33.00000	19.50000	0.23037	19.083	0.0	0.0
	53.00000	33.00000	19.50000	0.22640	19.083	0.0	0.0
	54.00000	33.00000	19.50000	0.22182	19.083	0.0	0.0
	55.00000	33.00000	19.50000	0.21676	19.083	0.0	0.0
	-25.00000	34.00000	19.50000	0.19003	19.083	0.0	0.0
	-24.00000	34.00000	19.50000	0.19511	19.083	0.0	0.0
	-23.00000	34.00000	19.50000	0.20000	19.083	0.0	0.0
	-22.00000	34.00000	19.50000	0.20461	19.083	0.0	0.0
	-21.00000	34.00000	19.50000	0.20886	19.083	0.0	0.0
	-20.00000	34.00000	19.50000	0.21265	19.083	0.0	0.0
	-19.00000	34.00000	19.50000	0.21586	19.083	0.0	0.0
	-18.00000	34.00000	19.50000	0.21835	19.083	0.0	0.0
	-17.00000	34.00000	19.50000	0.21995	19.083	0.0	0.0
	-16.00000	34.00000	19.50000	0.22048	19.083	0.0	0.0
	-15.00000	34.00000	19.50000	0.21974	19.083	0.0	0.0
	-14.00000	34.00000	19.50000	0.21749	19.083	0.0	0.0
	-13.00000	34.00000	19.50000	0.21347	19.083	0.0	0.0
	-12.00000	34.00000	19.50000	0.20740	19.083	0.0	0.0
	-11.00000	34.00000	19.50000	0.19897	19.083	0.0	0.0
	-10.00000	34.00000	19.50000	0.18786	19.083	0.0	0.0
	-9.00000	34.00000	19.50000	0.17375	19.083	0.0	0.0
	-8.00000	34.00000	19.50000	0.15633	19.083	0.0	0.0
	-7.00000	34.00000	19.50000	0.13533	19.083	0.0	0.0
	-6.00000	34.00000	19.50000	0.11054	19.083	0.0	0.0
	-5.00000	34.00000	19.50000	0.081875	19.083	0.0	0.0
	-4.00000	34.00000	19.50000	0.049421	19.083	0.0	0.0
	-3.00000	34.00000	19.50000	0.013470	19.083	0.0	0.0
	-2.00000	34.00000	19.50000	-0.025435	19.083	0.0	0.0
	-1.00000	34.00000	19.50000	-0.066494	19.083	0.0	0.0
	0.00000	34.00000	19.50000	-0.10869	19.083	0.0	0.0
	1.00000	34.00000	19.50000	-0.15089	19.083	0.0	0.0
	2.00000	34.00000	19.50000	-0.19193	19.083	0.0	0.0
	3.00000	34.00000	19.50000	-0.23080	19.083	0.0	0.0
	4.00000	34.00000	19.50000	-0.26668	19.083	0.0	0.0
	5.00000	34.00000	19.50000	-0.29898	19.083	0.0	0.0
	6.00000	34.00000	19.50000	-0.32738	19.083	0.0	0.0
	7.00000	34.00000	19.50000	-0.35175	19.083	0.0	0.0
	8.00000	34.00000	19.50000	-0.37212	19.083	0.0	0.0
	9.00000	34.00000	19.50000	-0.38864	19.083	0.0	0.0
	10.00000	34.00000	19.50000	-0.40149	19.083	0.0	0.0
	11.00000	34.00000	19.50000	-0.41092	19.083	0.0	0.0
	12.00000	34.00000	19.50000	-0.41717	19.083	0.0	0.0
	13.00000	34.00000	19.50000	-0.42048	19.083	0.0	0.0
	14.00000	34.00000	19.50000	-0.42106	19.083	0.0	0.0
	15.00000	34.00000	19.50000	-0.41914	19.083	0.0	0.0
	16.00000	34.00000	19.50000	-0.41488	19.083	0.0	0.0
	17.00000	34.00000	19.50000	-0.40847	19.083	0.0	0.0
	18.00000	34.00000	19.50000	-0.40006	19.083	0.0	0.0
	19.00000	34.00000	19.50000	-0.38979	19.083	0.0	0.0
	20.00000	34.00000	19.50000	-0.37777	19.083	0.0	0.0
	21.00000	34.00000	19.50000	-0.36409	19.083	0.0	0.0
	22.00000	34.00000	19.50000	-0.34878	19.083	0.0	0.0
	23.00000	34.00000	19.50000	-0.32184	19.083	0.0	0.0
	24.00000	34.00000	19.50000	-0.31318	19.083	0.0	0.0
	25.00000	34.00000	19.50000	-0.29270	19.083	0.0	0.0
	26.00000	34.00000	19.50000	-0.27023	19.083	0.0	0.0
	27.00000	34.00000	19.50000	-0.24561	19.083	0.0	0.0
	28.00000	34.00000	19.50000	-0.21868	19.083	0.0	0.0
	29.00000	34.00000	19.50000	-0.18937	19.083	0.0	0.0
	30.00000	34.00000	19.50000	-0.15772	19.083	0.0	0.0
	31.00000	34.00000	19.50000	-0.12394	19.083	0.0	0.0
	32.00000	34.00000	19.50000	-0.088434	19.083	0.0	0.0
	33.00000	34.00000	19.50000	-0.051834	19.083	0.0	0.0
	34.00000	34.00000	19.50000	-0.014952	19.083	0.0	0.0
	35.00000	34.00000	19.50000	0.021297	19.083	0.0	0.0
	36.00000	34.00000	19.50000	0.055997	19.083	0.0	0.0
	37.00000	34.00000	19.50000	0.088340	19.083	0.0	0.0
	38.00000	34.00000	19.50000	0.117171	19.083	0.0	0.0
	39.00000	34.00000	19.50000	0.14370	19.083	0.0	0.0
	40.00000	34.00000	19.50000	0.16615	19.083	0.0	0.0
	41.00000	34.00000	19.50000	0.18503	19.083	0.0	0.0
	42.00000	34.00000	19.50000	0.20050	19.083	0.0	0.0
	43.00000	34.00000	19.50000	0.21279	19.083	0.0	0.0
	44.00000	34.00000	19.50000	0.22217	19.083	0.0	0.0
	45.00000	34.00000	19.50000	0.22895	19.083	0.0	0.0
	46.00000	34.00000	19.50000	0.23345	19.083	0.0	0.0
	47.00000	34.00000	19.50000	0.23597	19.083	0.0	0.0
	48.00000	34.00000	19.50000	0.23679	19.083	0.0	0.0
	49.00000	34.00000	19.50000	0.23617	19.083	0.0	0.0
	50.00000	34.00000	19.50000	0.23436	19.083	0.0	0.0
	51.00000	34.00000	19.50000	0.23155	19.083	0.0	0.0
	52.00000	34.00000	19.50000	0.22793	19.083	0.0	0.0
	53.00000	34.00000	19.50000	0.22366	19.083	0.0	0.0
	54.00000	34.00000	19.50000	0.21888	19.083	0.0	0.0
	55.00000	34.00000	19.50000	0.21370	19.083	0.0	0.0
	-25.00000	35.00000	19.50000	0.18723	19.083	0.0	0.0
	-24.00000	35.00000	19.50000	0.19232	19.083	0.0	0.0
	-23.00000	35.00000	19.50000	0.19724	19.083	0.0	0.0
	-22.00000	35.00000	19.50000	0.20195	19.083	0.0	0.0
	-21.00000	35.00000	19.50000	0.20635	19.083	0.0	0.0
	-20.00000	35.00000	19.50000	0.21037	19.083	0.0	0.0
	-19.00000	35.00000	19.50000	0.21389	19.083	0.0	0.0
	-18.00000	35.00000	19.50000	0.21681	19.083	0.0	0.0
	-17.00000	35.00000	19.50000	0.21898	19.083	0.0	0.0
	-16.00000	35.00000	19.50000	0.22026	19.083	0.0	0.0
	-15.00000	35.00000	19.50000	0.22048	19.083	0.0	0.0
	-14.00000	35.00000	19.50000	0.21944	19.083	0.0	0.0
	-13.00000	35.00000	19.50000	0.21695	19.083	0.0	0.0
	-12.00000	35.00000	19.50000	0.21278	19.083	0.0	0.0
	-11.00000	35.00000	19.50000	0.20669	19.083	0.0	0.0
	-10.00000	35.00000	19.50000	0.19846	19.083	0.0	0.0
	-9.00000	35.00000	19.50000	0.18785	19.083	0.0	0.0
	-8.00000	35.00000	19.50000	0.17465	19.083	0.0	0.0
	-7.00000	35.00000	19.50000	0.15868	19.083	0.0	0.0
	-6.00000	35.00000	19.50000	0.13985	19.083	0.0	0.0
	-5.00000	35.00000	19.50000	0.11812	19.083	0.0	0.0
	-4.00000	35.00000	19.50000	0.093619	19.083	0.0	0.0
	-3.00000	35.00000	19.50000	0.066592	19.083	0.0	0.0
	-2.00000	35.00000	19.50000	0.037462	19.083	0.0	0.0
	-1.00000	35.00000	19.50000	0.0068137	19.083	0.0	0.0
	0.00000	35.00000	19.50000	-0.024642	19.083	0.0	0.0
	1.00000	35.00000	19.50000	-0.056116	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	2.00000	35.00000	19.50000	-0.086818	19.083	0.0	0.0
	3.00000	35.00000	19.50000	-0.11602	19.083	0.0	0.0
	4.00000	35.00000	19.50000	-0.14313	19.083	0.0	0.0
	5.00000	35.00000	19.50000	-0.16770	19.083	0.0	0.0
	6.00000	35.00000	19.50000	-0.18944	19.083	0.0	0.0
	7.00000	35.00000	19.50000	-0.20821	19.083	0.0	0.0
	8.00000	35.00000	19.50000	-0.22397	19.083	0.0	0.0
	9.00000	35.00000	19.50000	-0.23679	19.083	0.0	0.0
	10.00000	35.00000	19.50000	-0.24678	19.083	0.0	0.0
	11.00000	35.00000	19.50000	-0.25410	19.083	0.0	0.0
	12.00000	35.00000	19.50000	-0.25890	19.083	0.0	0.0
	13.00000	35.00000	19.50000	-0.26138	19.083	0.0	0.0
	14.00000	35.00000	19.50000	-0.26168	19.083	0.0	0.0
	15.00000	35.00000	19.50000	-0.25998	19.083	0.0	0.0
	16.00000	35.00000	19.50000	-0.25643	19.083	0.0	0.0
	17.00000	35.00000	19.50000	-0.25116	19.083	0.0	0.0
	18.00000	35.00000	19.50000	-0.24430	19.083	0.0	0.0
	19.00000	35.00000	19.50000	-0.23596	19.083	0.0	0.0
	20.00000	35.00000	19.50000	-0.22622	19.083	0.0	0.0
	21.00000	35.00000	19.50000	-0.21516	19.083	0.0	0.0
	22.00000	35.00000	19.50000	-0.20281	19.083	0.0	0.0
	23.00000	35.00000	19.50000	-0.18917	19.083	0.0	0.0
	24.00000	35.00000	19.50000	-0.17419	19.083	0.0	0.0
	25.00000	35.00000	19.50000	-0.15782	19.083	0.0	0.0
	26.00000	35.00000	19.50000	-0.13997	19.083	0.0	0.0
	27.00000	35.00000	19.50000	-0.12054	19.083	0.0	0.0
	28.00000	35.00000	19.50000	-0.099491	19.083	0.0	0.0
	29.00000	35.00000	19.50000	-0.076799	19.083	0.0	0.0
	30.00000	35.00000	19.50000	-0.052543	19.083	0.0	0.0
	31.00000	35.00000	19.50000	-0.026914	19.083	0.0	0.0
	32.00000	35.00000	19.50000	-229.85856	19.083	0.0	0.0
	33.00000	35.00000	19.50000	0.027058	19.083	0.0	0.0
	34.00000	35.00000	19.50000	0.054392	19.083	0.0	0.0
	35.00000	35.00000	19.50000	0.081157	19.083	0.0	0.0
	36.00000	35.00000	19.50000	0.10674	19.083	0.0	0.0
	37.00000	35.00000	19.50000	0.13058	19.083	0.0	0.0
	38.00000	35.00000	19.50000	0.15225	19.083	0.0	0.0
	39.00000	35.00000	19.50000	0.17145	19.083	0.0	0.0
	40.00000	35.00000	19.50000	0.18801	19.083	0.0	0.0
	41.00000	35.00000	19.50000	0.20190	19.083	0.0	0.0
	42.00000	35.00000	19.50000	0.21219	19.083	0.0	0.0
	43.00000	35.00000	19.50000	0.22201	19.083	0.0	0.0
	44.00000	35.00000	19.50000	0.22856	19.083	0.0	0.0
	45.00000	35.00000	19.50000	0.23306	19.083	0.0	0.0
	46.00000	35.00000	19.50000	0.23572	19.083	0.0	0.0
	47.00000	35.00000	19.50000	0.23679	19.083	0.0	0.0
	48.00000	35.00000	19.50000	0.23647	19.083	0.0	0.0
	49.00000	35.00000	19.50000	0.23497	19.083	0.0	0.0
	50.00000	35.00000	19.50000	0.23249	19.083	0.0	0.0
	51.00000	35.00000	19.50000	0.22918	19.083	0.0	0.0
	52.00000	35.00000	19.50000	0.22520	19.083	0.0	0.0
	53.00000	35.00000	19.50000	0.22068	19.083	0.0	0.0
	54.00000	35.00000	19.50000	0.21574	19.083	0.0	0.0
	55.00000	35.00000	19.50000	0.21047	19.083	0.0	0.0
	-25.00000	36.00000	19.50000	0.18432	19.083	0.0	0.0
	-24.00000	36.00000	19.50000	0.18939	19.083	0.0	0.0
	-23.00000	36.00000	19.50000	0.19434	19.083	0.0	0.0
	-22.00000	36.00000	19.50000	0.19911	19.083	0.0	0.0
	-21.00000	36.00000	19.50000	0.20363	19.083	0.0	0.0
	-20.00000	36.00000	19.50000	0.20784	19.083	0.0	0.0
	-19.00000	36.00000	19.50000	0.21163	19.083	0.0	0.0
	-18.00000	36.00000	19.50000	0.21492	19.083	0.0	0.0
	-17.00000	36.00000	19.50000	0.21759	19.083	0.0	0.0
	-16.00000	36.00000	19.50000	0.21952	19.083	0.0	0.0
	-15.00000	36.00000	19.50000	0.22056	19.083	0.0	0.0
	-14.00000	36.00000	19.50000	0.22058	19.083	0.0	0.0
	-13.00000	36.00000	19.50000	0.21939	19.083	0.0	0.0
	-12.00000	36.00000	19.50000	0.21685	19.083	0.0	0.0
	-11.00000	36.00000	19.50000	0.21276	19.083	0.0	0.0
	-10.00000	36.00000	19.50000	0.20696	19.083	0.0	0.0
	-9.00000	36.00000	19.50000	0.19927	19.083	0.0	0.0
	-8.00000	36.00000	19.50000	0.18956	19.083	0.0	0.0
	-7.00000	36.00000	19.50000	0.17772	19.083	0.0	0.0
	-6.00000	36.00000	19.50000	0.16369	19.083	0.0	0.0
	-5.00000	36.00000	19.50000	0.14750	19.083	0.0	0.0
	-4.00000	36.00000	19.50000	0.12925	19.083	0.0	0.0
	-3.00000	36.00000	19.50000	0.10914	19.083	0.0	0.0
	-2.00000	36.00000	19.50000	0.087513	19.083	0.0	0.0
	-1.00000	36.00000	19.50000	0.064785	19.083	0.0	0.0
	0.00000	36.00000	19.50000	0.041464	19.083	0.0	0.0
	1.00000	36.00000	19.50000	0.018105	19.083	0.0	0.0
	2.00000	36.00000	19.50000	-0.0047345	19.083	0.0	0.0
	3.00000	36.00000	19.50000	-0.026539	19.083	0.0	0.0
	4.00000	36.00000	19.50000	-0.046868	19.083	0.0	0.0
	5.00000	36.00000	19.50000	-0.065380	19.083	0.0	0.0
	6.00000	36.00000	19.50000	-0.081636	19.083	0.0	0.0
	7.00000	36.00000	19.50000	-0.096099	19.083	0.0	0.0
	8.00000	36.00000	19.50000	-0.10812	19.083	0.0	0.0
	9.00000	36.00000	19.50000	-0.11790	19.083	0.0	0.0
	10.00000	36.00000	19.50000	-0.12551	19.083	0.0	0.0
	11.00000	36.00000	19.50000	-0.13106	19.083	0.0	0.0
	12.00000	36.00000	19.50000	-0.13464	19.083	0.0	0.0
	13.00000	36.00000	19.50000	-0.13639	19.083	0.0	0.0
	14.00000	36.00000	19.50000	-0.13644	19.083	0.0	0.0
	15.00000	36.00000	19.50000	-0.13491	19.083	0.0	0.0
	16.00000	36.00000	19.50000	-0.13191	19.083	0.0	0.0
	17.00000	36.00000	19.50000	-0.12757	19.083	0.0	0.0
	18.00000	36.00000	19.50000	-0.12197	19.083	0.0	0.0
	19.00000	36.00000	19.50000	-0.11521	19.083	0.0	0.0
	20.00000	36.00000	19.50000	-0.10735	19.083	0.0	0.0
	21.00000	36.00000	19.50000	-0.098462	19.083	0.0	0.0
	22.00000	36.00000	19.50000	-0.088566	19.083	0.0	0.0
	23.00000	36.00000	19.50000	-0.077671	19.083	0.0	0.0
	24.00000	36.00000	19.50000	-0.065765	19.083	0.0	0.0
	25.00000	36.00000	19.50000	-0.052815	19.083	0.0	0.0
	26.00000	36.00000	19.50000	-0.038779	19.083	0.0	0.0
	27.00000	36.00000	19.50000	-0.023623	19.083	0.0	0.0
	28.00000	36.00000	19.50000	-0.0073301	19.083	0.0	0.0
	29.00000	36.00000	19.50000	0.010074	19.083	0.0	0.0
	30.00000	36.00000	19.50000	0.028503	19.083	0.0	0.0
	31.00000	36.00000	19.50000	0.047798	19.083	0.0	0.0
	32.00000	36.00000	19.50000	0.067715	19.083	0.0	0.0
	33.00000	36.00000	19.50000	0.087929	19.083	0.0	0.0
	34.00000	36.00000	19.50000	0.10805	19.083	0.0	0.0
	35.00000	36.00000	19.50000	0.12766	19.083	0.0	0.0
	36.00000	36.00000	19.50000	0.14634	19.083	0.0	0.0
	37.00000	36.00000	19.50000	0.16370	19.083	0.0	0.0
	38.00000	36.00000	19.50000	0.17944	19.083	0.0	0.0
	39.00000	36.00000	19.50000	0.19333	19.083	0.0	0.0
	40.00000	36.00000	19.50000	0.20524	19.083	0.0	0.0
	41.00000	36.00000	19.50000	0.21513	19.083	0.0	0.0
	42.00000	36.00000	19.50000	0.22303	19.083	0.0	0.0
	43.00000	36.00000	19.50000	0.22902	19.083	0.0	0.0
	44.00000	36.00000	19.50000	0.23323	19.083	0.0	0.0
	45.00000	36.00000	19.50000	0.23581	19.083	0.0	0.0
	46.00000	36.00000	19.50000	0.23693	19.083	0.0	0.0
	47.00000	36.00000	19.50000	0.23677	19.083	0.0	0.0
	48.00000	36.00000	19.50000	0.23549	19.083	0.0	0.0
	49.00000	36.00000	19.50000	0.23325	19.083	0.0	0.0
	50.00000	36.00000	19.50000	0.23019	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	51.00000	36.00000	19.50000	0.22647	19.083	0.0	0.0	0.0
	52.00000	36.00000	19.50000	0.22219	19.083	0.0	0.0	0.0
	53.00000	36.00000	19.50000	0.21747	19.083	0.0	0.0	0.0
	54.00000	36.00000	19.50000	0.21240	19.083	0.0	0.0	0.0
	55.00000	36.00000	19.50000	0.20708	19.083	0.0	0.0	0.0
	-25.00000	37.00000	19.50000	0.18130	19.083	0.0	0.0	0.0
	-24.00000	37.00000	19.50000	0.18635	19.083	0.0	0.0	0.0
	-23.00000	37.00000	19.50000	0.19130	19.083	0.0	0.0	0.0
	-22.00000	37.00000	19.50000	0.19611	19.083	0.0	0.0	0.0
	-21.00000	37.00000	19.50000	0.20073	19.083	0.0	0.0	0.0
	-20.00000	37.00000	19.50000	0.20508	19.083	0.0	0.0	0.0
	-19.00000	37.00000	19.50000	0.20910	19.083	0.0	0.0	0.0
	-18.00000	37.00000	19.50000	0.21269	19.083	0.0	0.0	0.0
	-17.00000	37.00000	19.50000	0.21578	19.083	0.0	0.0	0.0
	-16.00000	37.00000	19.50000	0.21826	19.083	0.0	0.0	0.0
	-15.00000	37.00000	19.50000	0.22001	19.083	0.0	0.0	0.0
	-14.00000	37.00000	19.50000	0.22092	19.083	0.0	0.0	0.0
	-13.00000	37.00000	19.50000	0.22085	19.083	0.0	0.0	0.0
	-12.00000	37.00000	19.50000	0.21968	19.083	0.0	0.0	0.0
	-11.00000	37.00000	19.50000	0.21727	19.083	0.0	0.0	0.0
	-10.00000	37.00000	19.50000	0.21349	19.083	0.0	0.0	0.0
	-9.00000	37.00000	19.50000	0.20823	19.083	0.0	0.0	0.0
	-8.00000	37.00000	19.50000	0.20139	19.083	0.0	0.0	0.0
	-7.00000	37.00000	19.50000	0.19290	19.083	0.0	0.0	0.0
	-6.00000	37.00000	19.50000	0.18274	19.083	0.0	0.0	0.0
	-5.00000	37.00000	19.50000	0.17094	19.083	0.0	0.0	0.0
	-4.00000	37.00000	19.50000	0.15759	19.083	0.0	0.0	0.0
	-3.00000	37.00000	19.50000	0.14288	19.083	0.0	0.0	0.0
	-2.00000	37.00000	19.50000	0.12703	19.083	0.0	0.0	0.0
	-1.00000	37.00000	19.50000	0.11037	19.083	0.0	0.0	0.0
	0.00000	37.00000	19.50000	0.093258	19.083	0.0	0.0	0.0
	1.00000	37.00000	19.50000	0.076092	19.083	0.0	0.0	0.0
	2.00000	37.00000	19.50000	0.059268	19.083	0.0	0.0	0.0
	3.00000	37.00000	19.50000	0.043160	19.083	0.0	0.0	0.0
	4.00000	37.00000	19.50000	0.028092	19.083	0.0	0.0	0.0
	5.00000	37.00000	19.50000	0.014125	19.083	0.0	0.0	0.0
	6.00000	37.00000	19.50000	0.0020481	19.083	0.0	0.0	0.0
	7.00000	37.00000	19.50000	-0.0086159	19.083	0.0	0.0	0.0
	8.00000	37.00000	19.50000	-0.017608	19.083	0.0	0.0	0.0
	9.00000	37.00000	19.50000	-0.024919	19.083	0.0	0.0	0.0
	10.00000	37.00000	19.50000	-0.030581	19.083	0.0	0.0	0.0
	11.00000	37.00000	19.50000	-0.034654	19.083	0.0	0.0	0.0
	12.00000	37.00000	19.50000	-0.037217	19.083	0.0	0.0	0.0
	13.00000	37.00000	19.50000	-0.038361	19.083	0.0	0.0	0.0
	14.00000	37.00000	19.50000	-0.038179	19.083	0.0	0.0	0.0
	15.00000	37.00000	19.50000	-0.036769	19.083	0.0	0.0	0.0
	16.00000	37.00000	19.50000	-0.034221	19.083	0.0	0.0	0.0
	17.00000	37.00000	19.50000	-0.030624	19.083	0.0	0.0	0.0
	18.00000	37.00000	19.50000	-0.026058	19.083	0.0	0.0	0.0
	19.00000	37.00000	19.50000	-0.020593	19.083	0.0	0.0	0.0
	20.00000	37.00000	19.50000	-0.014290	19.083	0.0	0.0	0.0
	21.00000	37.00000	19.50000	-0.0071916	19.083	0.0	0.0	0.0
	22.00000	37.00000	19.50000	670.60E-6	19.083	0.0	0.0	0.0
	23.00000	37.00000	19.50000	0.0092830	19.083	0.0	0.0	0.0
	24.00000	37.00000	19.50000	0.018646	19.083	0.0	0.0	0.0
	25.00000	37.00000	19.50000	0.028769	19.083	0.0	0.0	0.0
	26.00000	37.00000	19.50000	0.039666	19.083	0.0	0.0	0.0
	27.00000	37.00000	19.50000	0.051345	19.083	0.0	0.0	0.0
	28.00000	37.00000	19.50000	0.063797	19.083	0.0	0.0	0.0
	29.00000	37.00000	19.50000	0.076982	19.083	0.0	0.0	0.0
	30.00000	37.00000	19.50000	0.090819	19.083	0.0	0.0	0.0
	31.00000	37.00000	19.50000	0.10518	19.083	0.0	0.0	0.0
	32.00000	37.00000	19.50000	0.11988	19.083	0.0	0.0	0.0
	33.00000	37.00000	19.50000	0.13468	19.083	0.0	0.0	0.0
	34.00000	37.00000	19.50000	0.14931	19.083	0.0	0.0	0.0
	35.00000	37.00000	19.50000	0.16348	19.083	0.0	0.0	0.0
	36.00000	37.00000	19.50000	0.17689	19.083	0.0	0.0	0.0
	37.00000	37.00000	19.50000	0.18929	19.083	0.0	0.0	0.0
	38.00000	37.00000	19.50000	0.20045	19.083	0.0	0.0	0.0
	39.00000	37.00000	19.50000	0.21020	19.083	0.0	0.0	0.0
	40.00000	37.00000	19.50000	0.21845	19.083	0.0	0.0	0.0
	41.00000	37.00000	19.50000	0.22515	19.083	0.0	0.0	0.0
	42.00000	37.00000	19.50000	0.23032	19.083	0.0	0.0	0.0
	43.00000	37.00000	19.50000	0.23400	19.083	0.0	0.0	0.0
	44.00000	37.00000	19.50000	0.23629	19.083	0.0	0.0	0.0
	45.00000	37.00000	19.50000	0.23730	19.083	0.0	0.0	0.0
	46.00000	37.00000	19.50000	0.23715	19.083	0.0	0.0	0.0
	47.00000	37.00000	19.50000	0.23597	19.083	0.0	0.0	0.0
	48.00000	37.00000	19.50000	0.23388	19.083	0.0	0.0	0.0
	49.00000	37.00000	19.50000	0.23102	19.083	0.0	0.0	0.0
	50.00000	37.00000	19.50000	0.22750	19.083	0.0	0.0	0.0
	51.00000	37.00000	19.50000	0.22343	19.083	0.0	0.0	0.0
	52.00000	37.00000	19.50000	0.21892	19.083	0.0	0.0	0.0
	53.00000	37.00000	19.50000	0.21404	19.083	0.0	0.0	0.0
	54.00000	37.00000	19.50000	0.20889	19.083	0.0	0.0	0.0
	55.00000	37.00000	19.50000	0.20254	19.083	0.0	0.0	0.0
	-25.00000	38.00000	19.50000	0.17819	19.083	0.0	0.0	0.0
	-24.00000	38.00000	19.50000	0.18320	19.083	0.0	0.0	0.0
	-23.00000	38.00000	19.50000	0.18814	19.083	0.0	0.0	0.0
	-22.00000	38.00000	19.50000	0.19297	19.083	0.0	0.0	0.0
	-21.00000	38.00000	19.50000	0.19764	19.083	0.0	0.0	0.0
	-20.00000	38.00000	19.50000	0.20211	19.083	0.0	0.0	0.0
	-19.00000	38.00000	19.50000	0.20630	19.083	0.0	0.0	0.0
	-18.00000	38.00000	19.50000	0.21015	19.083	0.0	0.0	0.0
	-17.00000	38.00000	19.50000	0.21358	19.083	0.0	0.0	0.0
	-16.00000	38.00000	19.50000	0.21652	19.083	0.0	0.0	0.0
	-15.00000	38.00000	19.50000	0.21886	19.083	0.0	0.0	0.0
	-14.00000	38.00000	19.50000	0.22051	19.083	0.0	0.0	0.0
	-13.00000	38.00000	19.50000	0.22138	19.083	0.0	0.0	0.0
	-12.00000	38.00000	19.50000	0.22136	19.083	0.0	0.0	0.0
	-11.00000	38.00000	19.50000	0.22034	19.083	0.0	0.0	0.0
	-10.00000	38.00000	19.50000	0.21824	19.083	0.0	0.0	0.0
	-9.00000	38.00000	19.50000	0.21497	19.083	0.0	0.0	0.0
	-8.00000	38.00000	19.50000	0.21046	19.083	0.0	0.0	0.0
	-7.00000	38.00000	19.50000	0.20468	19.083	0.0	0.0	0.0
	-6.00000	38.00000	19.50000	0.19761	19.083	0.0	0.0	0.0
	-5.00000	38.00000	19.50000	0.18929	19.083	0.0	0.0	0.0
	-4.00000	38.00000	19.50000	0.17980	19.083	0.0	0.0	0.0
	-3.00000	38.00000	19.50000	0.16928	19.083	0.0	0.0	0.0
	-2.00000	38.00000	19.50000	0.15790	19.083	0.0	0.0	0.0
	-1.00000	38.00000	19.50000	0.14591	19.083	0.0	0.0	0.0
	0.00000	38.00000	19.50000	0.13357	19.083	0.0	0.0	0.0
	1.00000	38.00000	19.50000	0.12115	19.083	0.0	0.0	0.0
	2.00000	38.00000	19.50000	0.10895	19.083	0.0	0.0	0.0
	3.00000	38.00000	19.50000	0.097244	19.083	0.0	0.0	0.0
	4.00000	38.00000	19.50000	0.086264	19.083	0.0	0.0	0.0
	5.00000	38.00000	19.50000	0.076210	19.083	0.0	0.0	0.0
	6.00000	38.00000	19.50000	0.067231	19.083	0.0	0.0	0.0
	7.00000	38.00000	19.50000	0.059431	19.083	0.0	0.0	0.0
	8.00000	38.00000	19.50000	0.052865	19.083	0.0	0.0	0.0
	9.00000	38.00000	19.50000	0.047553	19.083	0.0	0.0	0.0
	10.00000	38.00000	19.50000	0.043480	19.083	0.0	0.0	0.0
	11.00000	38.00000	19.50000	0.040611	19.083	0.0	0.0	0.0
	12.00000	38.00000	19.50000	0.038891	19.083	0.0	0.0	0.0
	13.00000	38.00000	19.50000	0.038255	19.083	0.0	0.0	0.0
	14.00000	38.00000	19.50000	0.038633	19.083	0.0	0.0	0.0
	15.00000	38.00000	19.50000	0.039952	19.083	0.0	0.0	0.0
	16.00000							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z [Level] [mm]	Calc Level [mm]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]	
19.00000	38.00000	19.50000	0.053243	19.083	0.0	0.0	0.0
20.00000	38.00000	19.50000	0.058272	19.083	0.0	0.0	0.0
21.00000	38.00000	19.50000	0.063891	19.083	0.0	0.0	0.0
22.00000	38.00000	19.50000	0.070073	19.083	0.0	0.0	0.0
23.00000	38.00000	19.50000	0.076801	19.083	0.0	0.0	0.0
24.00000	38.00000	19.50000	0.084067	19.083	0.0	0.0	0.0
25.00000	38.00000	19.50000	0.091867	19.083	0.0	0.0	0.0
26.00000	38.00000	19.50000	0.10020	19.083	0.0	0.0	0.0
27.00000	38.00000	19.50000	0.10906	19.083	0.0	0.0	0.0
28.00000	38.00000	19.50000	0.11842	19.083	0.0	0.0	0.0
29.00000	38.00000	19.50000	0.12825	19.083	0.0	0.0	0.0
30.00000	38.00000	19.50000	0.13847	19.083	0.0	0.0	0.0
31.00000	38.00000	19.50000	0.14897	19.083	0.0	0.0	0.0
32.00000	38.00000	19.50000	0.15963	19.083	0.0	0.0	0.0
33.00000	38.00000	19.50000	0.17027	19.083	0.0	0.0	0.0
34.00000	38.00000	19.50000	0.18069	19.083	0.0	0.0	0.0
35.00000	38.00000	19.50000	0.19070	19.083	0.0	0.0	0.0
36.00000	38.00000	19.50000	0.20008	19.083	0.0	0.0	0.0
37.00000	38.00000	19.50000	0.20866	19.083	0.0	0.0	0.0
38.00000	38.00000	19.50000	0.21627	19.083	0.0	0.0	0.0
39.00000	38.00000	19.50000	0.22280	19.083	0.0	0.0	0.0
40.00000	38.00000	19.50000	0.22818	19.083	0.0	0.0	0.0
41.00000	38.00000	19.50000	0.23235	19.083	0.0	0.0	0.0
42.00000	38.00000	19.50000	0.23534	19.083	0.0	0.0	0.0
43.00000	38.00000	19.50000	0.23718	19.083	0.0	0.0	0.0
44.00000	38.00000	19.50000	0.23792	19.083	0.0	0.0	0.0
45.00000	38.00000	19.50000	0.23765	19.083	0.0	0.0	0.0
46.00000	38.00000	19.50000	0.23645	19.083	0.0	0.0	0.0
47.00000	38.00000	19.50000	0.23444	19.083	0.0	0.0	0.0
48.00000	38.00000	19.50000	0.23170	19.083	0.0	0.0	0.0
49.00000	38.00000	19.50000	0.22823	19.083	0.0	0.0	0.0
50.00000	38.00000	19.50000	0.22444	19.083	0.0	0.0	0.0
51.00000	38.00000	19.50000	0.22010	19.083	0.0	0.0	0.0
52.00000	38.00000	19.50000	0.21540	19.083	0.0	0.0	0.0
53.00000	38.00000	19.50000	0.21042	19.083	0.0	0.0	0.0
54.00000	38.00000	19.50000	0.20522	19.083	0.0	0.0	0.0
55.00000	38.00000	19.50000	0.19986	19.083	0.0	0.0	0.0
-25.00000	39.00000	19.50000	0.17499	19.083	0.0	0.0	0.0
-24.00000	39.00000	19.50000	0.17994	19.083	0.0	0.0	0.0
-23.00000	39.00000	19.50000	0.18485	19.083	0.0	0.0	0.0
-22.00000	39.00000	19.50000	0.18968	19.083	0.0	0.0	0.0
-21.00000	39.00000	19.50000	0.19439	19.083	0.0	0.0	0.0
-20.00000	39.00000	19.50000	0.19893	19.083	0.0	0.0	0.0
-19.00000	39.00000	19.50000	0.20326	19.083	0.0	0.0	0.0
-18.00000	39.00000	19.50000	0.20731	19.083	0.0	0.0	0.0
-17.00000	39.00000	19.50000	0.21102	19.083	0.0	0.0	0.0
-16.00000	39.00000	19.50000	0.21432	19.083	0.0	0.0	0.0
-15.00000	39.00000	19.50000	0.21715	19.083	0.0	0.0	0.0
-14.00000	39.00000	19.50000	0.21942	19.083	0.0	0.0	0.0
-13.00000	39.00000	19.50000	0.22106	19.083	0.0	0.0	0.0
-12.00000	39.00000	19.50000	0.22198	19.083	0.0	0.0	0.0
-11.00000	39.00000	19.50000	0.22211	19.083	0.0	0.0	0.0
-10.00000	39.00000	19.50000	0.22138	19.083	0.0	0.0	0.0
-9.00000	39.00000	19.50000	0.21972	19.083	0.0	0.0	0.0
-8.00000	39.00000	19.50000	0.21710	19.083	0.0	0.0	0.0
-7.00000	39.00000	19.50000	0.21348	19.083	0.0	0.0	0.0
-6.00000	39.00000	19.50000	0.20887	19.083	0.0	0.0	0.0
-5.00000	39.00000	19.50000	0.20330	19.083	0.0	0.0	0.0
-4.00000	39.00000	19.50000	0.19684	19.083	0.0	0.0	0.0
-3.00000	39.00000	19.50000	0.18959	19.083	0.0	0.0	0.0
-2.00000	39.00000	19.50000	0.18168	19.083	0.0	0.0	0.0
-1.00000	39.00000	19.50000	0.17329	19.083	0.0	0.0	0.0
0.00000	39.00000	19.50000	0.16461	19.083	0.0	0.0	0.0
1.00000	39.00000	19.50000	0.15586	19.083	0.0	0.0	0.0
2.00000	39.00000	19.50000	0.14723	19.083	0.0	0.0	0.0
3.00000	39.00000	19.50000	0.13892	19.083	0.0	0.0	0.0
4.00000	39.00000	19.50000	0.13112	19.083	0.0	0.0	0.0
5.00000	39.00000	19.50000	0.12397	19.083	0.0	0.0	0.0
6.00000	39.00000	19.50000	0.11758	19.083	0.0	0.0	0.0
7.00000	39.00000	19.50000	0.11205	19.083	0.0	0.0	0.0
8.00000	39.00000	19.50000	0.10742	19.083	0.0	0.0	0.0
9.00000	39.00000	19.50000	0.10371	19.083	0.0	0.0	0.0
10.00000	39.00000	19.50000	0.10092	19.083	0.0	0.0	0.0
11.00000	39.00000	19.50000	0.099029	19.083	0.0	0.0	0.0
12.00000	39.00000	19.50000	0.097996	19.083	0.0	0.0	0.0
13.00000	39.00000	19.50000	0.097776	19.083	0.0	0.0	0.0
14.00000	39.00000	19.50000	0.098316	19.083	0.0	0.0	0.0
15.00000	39.00000	19.50000	0.099561	19.083	0.0	0.0	0.0
16.00000	39.00000	19.50000	0.10145	19.083	0.0	0.0	0.0
17.00000	39.00000	19.50000	0.10394	19.083	0.0	0.0	0.0
18.00000	39.00000	19.50000	0.10697	19.083	0.0	0.0	0.0
19.00000	39.00000	19.50000	0.11049	19.083	0.0	0.0	0.0
20.00000	39.00000	19.50000	0.11447	19.083	0.0	0.0	0.0
21.00000	39.00000	19.50000	0.11887	19.083	0.0	0.0	0.0
22.00000	39.00000	19.50000	0.12367	19.083	0.0	0.0	0.0
23.00000	39.00000	19.50000	0.12885	19.083	0.0	0.0	0.0
24.00000	39.00000	19.50000	0.13440	19.083	0.0	0.0	0.0
25.00000	39.00000	19.50000	0.14030	19.083	0.0	0.0	0.0
26.00000	39.00000	19.50000	0.14655	19.083	0.0	0.0	0.0
27.00000	39.00000	19.50000	0.15313	19.083	0.0	0.0	0.0
28.00000	39.00000	19.50000	0.16002	19.083	0.0	0.0	0.0
29.00000	39.00000	19.50000	0.16718	19.083	0.0	0.0	0.0
30.00000	39.00000	19.50000	0.17455	19.083	0.0	0.0	0.0
31.00000	39.00000	19.50000	0.18205	19.083	0.0	0.0	0.0
32.00000	39.00000	19.50000	0.18957	19.083	0.0	0.0	0.0
33.00000	39.00000	19.50000	0.19699	19.083	0.0	0.0	0.0
34.00000	39.00000	19.50000	0.20418	19.083	0.0	0.0	0.0
35.00000	39.00000	19.50000	0.21099	19.083	0.0	0.0	0.0
36.00000	39.00000	19.50000	0.21728	19.083	0.0	0.0	0.0
37.00000	39.00000	19.50000	0.22292	19.083	0.0	0.0	0.0
38.00000	39.00000	19.50000	0.22779	19.083	0.0	0.0	0.0
39.00000	39.00000	19.50000	0.23182	19.083	0.0	0.0	0.0
40.00000	39.00000	19.50000	0.23494	19.083	0.0	0.0	0.0
41.00000	39.00000	19.50000	0.23713	19.083	0.0	0.0	0.0
42.00000	39.00000	19.50000	0.23840	19.083	0.0	0.0	0.0
43.00000	39.00000	19.50000	0.23876	19.083	0.0	0.0	0.0
44.00000	39.00000	19.50000	0.23826	19.083	0.0	0.0	0.0
45.00000	39.00000	19.50000	0.23696	19.083	0.0	0.0	0.0
46.00000	39.00000	19.50000	0.23493	19.083	0.0	0.0	0.0
47.00000	39.00000	19.50000	0.23225	19.083	0.0	0.0	0.0
48.00000	39.00000	19.50000	0.22898	19.083	0.0	0.0	0.0
49.00000	39.00000	19.50000	0.22522	19.083	0.0	0.0	0.0
50.00000	39.00000	19.50000	0.22103	19.083	0.0	0.0	0.0
51.00000	39.00000	19.50000	0.21650	19.083	0.0	0.0	0.0
52.00000	39.00000	19.50000	0.21167	19.083	0.0	0.0	0.0
53.00000	39.00000	19.50000	0.20662	19.083	0.0	0.0	0.0
54.00000	39.00000	19.50000	0.20140	19.083	0.0	0.0	0.0
55.00000	39.00000	19.50000	0.19607	19.083	0.0	0.0	0.0
-25.00000	40.00000	19.50000	0.17172	19.083	0.0	0.0	0.0
-24.00000	40.00000	19.50000	0.17660	19.083	0.0	0.0	0.0
-23.00000	40.00000	19.50000	0.18147	19.083	0.0	0.0	0.0
-22.00000	40.00000	19.50000	0.18627	19.083	0.0	0.0	0.0
-21.00000	40.00000	19.50000	0.19099	19.083	0.0	0.0	0.0
-20.00000	40.00000	19.50000	0.19558	19.083	0.0	0.0	0.0
-19.00000	40.00000	19.50000	0.19999	19.083	0.0	0.0	0.0
-18.00000	40.00000	19.50000	0.20419	19.083	0.0	0.0	0.0
-17.00000	40.00000	19.50000	0.20812	19.083	0.0	0.0	0.0
-16.00000	40.00000	19.50000	0.21172	19.083	0.0	0.0	0.0
-15.00000	40.00000	19.50000	0.21494	19.083	0.0	0.0	0.0
-14.00000	40.00000	19.50000	0.21771	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-13.00000	40.00000	19.50000	0.21997	19.083	0.0	0.0
	-12.00000	40.00000	19.50000	0.22165	19.083	0.0	0.0
	-11.00000	40.00000	19.50000	0.22271	19.083	0.0	0.0
	-10.00000	40.00000	19.50000	0.22309	19.083	0.0	0.0
	-9.00000	40.00000	19.50000	0.22273	19.083	0.0	0.0
	-8.00000	40.00000	19.50000	0.22162	19.083	0.0	0.0
	-7.00000	40.00000	19.50000	0.21973	19.083	0.0	0.0
	-6.00000	40.00000	19.50000	0.21706	19.083	0.0	0.0
	-5.00000	40.00000	19.50000	0.21366	19.083	0.0	0.0
	-4.00000	40.00000	19.50000	0.20956	19.083	0.0	0.0
	-3.00000	40.00000	19.50000	0.20485	19.083	0.0	0.0
	-2.00000	40.00000	19.50000	0.19963	19.083	0.0	0.0
	-1.00000	40.00000	19.50000	0.19402	19.083	0.0	0.0
	0.00000	40.00000	19.50000	0.18818	19.083	0.0	0.0
	1.00000	40.00000	19.50000	0.18224	19.083	0.0	0.0
	2.00000	40.00000	19.50000	0.17636	19.083	0.0	0.0
	3.00000	40.00000	19.50000	0.17069	19.083	0.0	0.0
	4.00000	40.00000	19.50000	0.16535	19.083	0.0	0.0
	5.00000	40.00000	19.50000	0.16047	19.083	0.0	0.0
	6.00000	40.00000	19.50000	0.15612	19.083	0.0	0.0
	7.00000	40.00000	19.50000	0.15237	19.083	0.0	0.0
	8.00000	40.00000	19.50000	0.14928	19.083	0.0	0.0
	9.00000	40.00000	19.50000	0.14685	19.083	0.0	0.0
	10.00000	40.00000	19.50000	0.14508	19.083	0.0	0.0
	11.00000	40.00000	19.50000	0.14397	19.083	0.0	0.0
	12.00000	40.00000	19.50000	0.14349	19.083	0.0	0.0
	13.00000	40.00000	19.50000	0.14361	19.083	0.0	0.0
	14.00000	40.00000	19.50000	0.14428	19.083	0.0	0.0
	15.00000	40.00000	19.50000	0.14546	19.083	0.0	0.0
	16.00000	40.00000	19.50000	0.14711	19.083	0.0	0.0
	17.00000	40.00000	19.50000	0.14919	19.083	0.0	0.0
	18.00000	40.00000	19.50000	0.15165	19.083	0.0	0.0
	19.00000	40.00000	19.50000	0.15445	19.083	0.0	0.0
	20.00000	40.00000	19.50000	0.15757	19.083	0.0	0.0
	21.00000	40.00000	19.50000	0.16098	19.083	0.0	0.0
	22.00000	40.00000	19.50000	0.16465	19.083	0.0	0.0
	23.00000	40.00000	19.50000	0.16856	19.083	0.0	0.0
	24.00000	40.00000	19.50000	0.17270	19.083	0.0	0.0
	25.00000	40.00000	19.50000	0.17706	19.083	0.0	0.0
	26.00000	40.00000	19.50000	0.18163	19.083	0.0	0.0
	27.00000	40.00000	19.50000	0.18638	19.083	0.0	0.0
	28.00000	40.00000	19.50000	0.19130	19.083	0.0	0.0
	29.00000	40.00000	19.50000	0.19634	19.083	0.0	0.0
	30.00000	40.00000	19.50000	0.20147	19.083	0.0	0.0
	31.00000	40.00000	19.50000	0.20661	19.083	0.0	0.0
	32.00000	40.00000	19.50000	0.21170	19.083	0.0	0.0
	33.00000	40.00000	19.50000	0.21664	19.083	0.0	0.0
	34.00000	40.00000	19.50000	0.22134	19.083	0.0	0.0
	35.00000	40.00000	19.50000	0.22570	19.083	0.0	0.0
	36.00000	40.00000	19.50000	0.22960	19.083	0.0	0.0
	37.00000	40.00000	19.50000	0.23298	19.083	0.0	0.0
	38.00000	40.00000	19.50000	0.23574	19.083	0.0	0.0
	39.00000	40.00000	19.50000	0.23782	19.083	0.0	0.0
	40.00000	40.00000	19.50000	0.23920	19.083	0.0	0.0
	41.00000	40.00000	19.50000	0.23984	19.083	0.0	0.0
	42.00000	40.00000	19.50000	0.23975	19.083	0.0	0.0
	43.00000	40.00000	19.50000	0.23895	19.083	0.0	0.0
	44.00000	40.00000	19.50000	0.23748	19.083	0.0	0.0
	45.00000	40.00000	19.50000	0.23537	19.083	0.0	0.0
	46.00000	40.00000	19.50000	0.23268	19.083	0.0	0.0
	47.00000	40.00000	19.50000	0.22947	19.083	0.0	0.0
	48.00000	40.00000	19.50000	0.22580	19.083	0.0	0.0
	49.00000	40.00000	19.50000	0.22173	19.083	0.0	0.0
	50.00000	40.00000	19.50000	0.21733	19.083	0.0	0.0
	51.00000	40.00000	19.50000	0.21265	19.083	0.0	0.0
	52.00000	40.00000	19.50000	0.20774	19.083	0.0	0.0
	53.00000	40.00000	19.50000	0.20266	19.083	0.0	0.0
	54.00000	40.00000	19.50000	0.19746	19.083	0.0	0.0
	55.00000	40.00000	19.50000	0.19216	19.083	0.0	0.0
	-25.00000	41.00000	19.50000	0.16838	19.083	0.0	0.0
	-24.00000	41.00000	19.50000	0.17319	19.083	0.0	0.0
	-23.00000	41.00000	19.50000	0.17799	19.083	0.0	0.0
	-22.00000	41.00000	19.50000	0.18275	19.083	0.0	0.0
	-21.00000	41.00000	19.50000	0.18745	19.083	0.0	0.0
	-20.00000	41.00000	19.50000	0.19206	19.083	0.0	0.0
	-19.00000	41.00000	19.50000	0.19653	19.083	0.0	0.0
	-18.00000	41.00000	19.50000	0.20083	19.083	0.0	0.0
	-17.00000	41.00000	19.50000	0.20492	19.083	0.0	0.0
	-16.00000	41.00000	19.50000	0.20875	19.083	0.0	0.0
	-15.00000	41.00000	19.50000	0.21227	19.083	0.0	0.0
	-14.00000	41.00000	19.50000	0.21543	19.083	0.0	0.0
	-13.00000	41.00000	19.50000	0.21818	19.083	0.0	0.0
	-12.00000	41.00000	19.50000	0.22048	19.083	0.0	0.0
	-11.00000	41.00000	19.50000	0.22228	19.083	0.0	0.0
	-10.00000	41.00000	19.50000	0.22354	19.083	0.0	0.0
	-9.00000	41.00000	19.50000	0.22422	19.083	0.0	0.0
	-8.00000	41.00000	19.50000	0.22430	19.083	0.0	0.0
	-7.00000	41.00000	19.50000	0.22378	19.083	0.0	0.0
	-6.00000	41.00000	19.50000	0.22264	19.083	0.0	0.0
	-5.00000	41.00000	19.50000	0.22093	19.083	0.0	0.0
	-4.00000	41.00000	19.50000	0.21868	19.083	0.0	0.0
	-3.00000	41.00000	19.50000	0.21594	19.083	0.0	0.0
	-2.00000	41.00000	19.50000	0.21280	19.083	0.0	0.0
	-1.00000	41.00000	19.50000	0.20934	19.083	0.0	0.0
	0.00000	41.00000	19.50000	0.20567	19.083	0.0	0.0
	1.00000	41.00000	19.50000	0.20191	19.083	0.0	0.0
	2.00000	41.00000	19.50000	0.19815	19.083	0.0	0.0
	3.00000	41.00000	19.50000	0.19452	19.083	0.0	0.0
	4.00000	41.00000	19.50000	0.19109	19.083	0.0	0.0
	5.00000	41.00000	19.50000	0.18797	19.083	0.0	0.0
	6.00000	41.00000	19.50000	0.18521	19.083	0.0	0.0
	7.00000	41.00000	19.50000	0.18287	19.083	0.0	0.0
	8.00000	41.00000	19.50000	0.18098	19.083	0.0	0.0
	9.00000	41.00000	19.50000	0.17956	19.083	0.0	0.0
	10.00000	41.00000	19.50000	0.17861	19.083	0.0	0.0
	11.00000	41.00000	19.50000	0.17812	19.083	0.0	0.0
	12.00000	41.00000	19.50000	0.17808	19.083	0.0	0.0
	13.00000	41.00000	19.50000	0.17846	19.083	0.0	0.0
	14.00000	41.00000	19.50000	0.17923	19.083	0.0	0.0
	15.00000	41.00000	19.50000	0.18035	19.083	0.0	0.0
	16.00000	41.00000	19.50000	0.18180	19.083	0.0	0.0
	17.00000	41.00000	19.50000	0.18354	19.083	0.0	0.0
	18.00000	41.00000	19.50000	0.18553	19.083	0.0	0.0
	19.00000	41.00000	19.50000	0.18775	19.083	0.0	0.0
	20.00000	41.00000	19.50000	0.19017	19.083	0.0	0.0
	21.00000	41.00000	19.50000	0.19276	19.083	0.0	0.0
	22.00000	41.00000	19.50000	0.19550	19.083	0.0	0.0
	23.00000	41.00000	19.50000	0.19838	19.083	0.0	0.0
	24.00000	41.00000	19.50000	0.20139	19.083	0.0	0.0
	25.00000	41.00000	19.50000	0.20450	19.083	0.0	0.0
	26.00000	41.00000	19.50000	0.20771	19.083	0.0	0.0
	27.00000	41.00000	19.50000	0.21100	19.083	0.0	0.0
	28.00000	41.00000	19.50000	0.21435	19.083	0.0	0.0
	29.00000	41.00000	19.50000	0.21773	19.083	0.0	0.0
	30.00000	41.00000	19.50000	0.22109	19.083	0.0	0.0
	31.00000	41.00000	19.50000	0.22441	19.083	0.0	0.0
	32.00000	41.00000	19.50000	0.22761	19.083	0.0	0.0
	33.00000	41.00000	19.50000	0.23063	19.083	0.0	0.0
	34.00000	41.00000	19.50000	0.23342	19.083	0.0	0.0
	35.00000	41.00000	19.50000	0.23588	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	36.00000	41.00000	19.50000	0.23797	19.083	0.0	0.0
	37.00000	41.00000	19.50000	0.23960	19.083	0.0	0.0
	38.00000	41.00000	19.50000	0.24073	19.083	0.0	0.0
	39.00000	41.00000	19.50000	0.24133	19.083	0.0	0.0
	40.00000	41.00000	19.50000	0.24135	19.083	0.0	0.0
	41.00000	41.00000	19.50000	0.24079	19.083	0.0	0.0
	42.00000	41.00000	19.50000	0.23966	19.083	0.0	0.0
	43.00000	41.00000	19.50000	0.23796	19.083	0.0	0.0
	44.00000	41.00000	19.50000	0.23572	19.083	0.0	0.0
	45.00000	41.00000	19.50000	0.23298	19.083	0.0	0.0
	46.00000	41.00000	19.50000	0.22979	19.083	0.0	0.0
	47.00000	41.00000	19.50000	0.22618	19.083	0.0	0.0
	48.00000	41.00000	19.50000	0.22220	19.083	0.0	0.0
	49.00000	41.00000	19.50000	0.21791	19.083	0.0	0.0
	50.00000	41.00000	19.50000	0.21336	19.083	0.0	0.0
	51.00000	41.00000	19.50000	0.20859	19.083	0.0	0.0
	52.00000	41.00000	19.50000	0.20364	19.083	0.0	0.0
	53.00000	41.00000	19.50000	0.19857	19.083	0.0	0.0
	54.00000	41.00000	19.50000	0.19340	19.083	0.0	0.0
	55.00000	41.00000	19.50000	0.18817	19.083	0.0	0.0
	-25.00000	42.00000	19.50000	0.16499	19.083	0.0	0.0
	-24.00000	42.00000	19.50000	0.16971	19.083	0.0	0.0
	-23.00000	42.00000	19.50000	0.17443	19.083	0.0	0.0
	-22.00000	42.00000	19.50000	0.17914	19.083	0.0	0.0
	-21.00000	42.00000	19.50000	0.18380	19.083	0.0	0.0
	-20.00000	42.00000	19.50000	0.18840	19.083	0.0	0.0
	-19.00000	42.00000	19.50000	0.19289	19.083	0.0	0.0
	-18.00000	42.00000	19.50000	0.19726	19.083	0.0	0.0
	-17.00000	42.00000	19.50000	0.20145	19.083	0.0	0.0
	-16.00000	42.00000	19.50000	0.20545	19.083	0.0	0.0
	-15.00000	42.00000	19.50000	0.20919	19.083	0.0	0.0
	-14.00000	42.00000	19.50000	0.21266	19.083	0.0	0.0
	-13.00000	42.00000	19.50000	0.21580	19.083	0.0	0.0
	-12.00000	42.00000	19.50000	0.21858	19.083	0.0	0.0
	-11.00000	42.00000	19.50000	0.22095	19.083	0.0	0.0
	-10.00000	42.00000	19.50000	0.22290	19.083	0.0	0.0
	-9.00000	42.00000	19.50000	0.22440	19.083	0.0	0.0
	-8.00000	42.00000	19.50000	0.22542	19.083	0.0	0.0
	-7.00000	42.00000	19.50000	0.22596	19.083	0.0	0.0
	-6.00000	42.00000	19.50000	0.22602	19.083	0.0	0.0
	-5.00000	42.00000	19.50000	0.22562	19.083	0.0	0.0
	-4.00000	42.00000	19.50000	0.22480	19.083	0.0	0.0
	-3.00000	42.00000	19.50000	0.22359	19.083	0.0	0.0
	-2.00000	42.00000	19.50000	0.22205	19.083	0.0	0.0
	-1.00000	42.00000	19.50000	0.22024	19.083	0.0	0.0
	0.00000	42.00000	19.50000	0.21826	19.083	0.0	0.0
	1.00000	42.00000	19.50000	0.21616	19.083	0.0	0.0
	2.00000	42.00000	19.50000	0.21404	19.083	0.0	0.0
	3.00000	42.00000	19.50000	0.21197	19.083	0.0	0.0
	4.00000	42.00000	19.50000	0.21002	19.083	0.0	0.0
	5.00000	42.00000	19.50000	0.20826	19.083	0.0	0.0
	6.00000	42.00000	19.50000	0.20674	19.083	0.0	0.0
	7.00000	42.00000	19.50000	0.20549	19.083	0.0	0.0
	8.00000	42.00000	19.50000	0.20454	19.083	0.0	0.0
	9.00000	42.00000	19.50000	0.20391	19.083	0.0	0.0
	10.00000	42.00000	19.50000	0.20360	19.083	0.0	0.0
	11.00000	42.00000	19.50000	0.20360	19.083	0.0	0.0
	12.00000	42.00000	19.50000	0.20390	19.083	0.0	0.0
	13.00000	42.00000	19.50000	0.20448	19.083	0.0	0.0
	14.00000	42.00000	19.50000	0.20532	19.083	0.0	0.0
	15.00000	42.00000	19.50000	0.20640	19.083	0.0	0.0
	16.00000	42.00000	19.50000	0.20768	19.083	0.0	0.0
	17.00000	42.00000	19.50000	0.20914	19.083	0.0	0.0
	18.00000	42.00000	19.50000	0.21075	19.083	0.0	0.0
	19.00000	42.00000	19.50000	0.21248	19.083	0.0	0.0
	20.00000	42.00000	19.50000	0.21433	19.083	0.0	0.0
	21.00000	42.00000	19.50000	0.21625	19.083	0.0	0.0
	22.00000	42.00000	19.50000	0.21825	19.083	0.0	0.0
	23.00000	42.00000	19.50000	0.22029	19.083	0.0	0.0
	24.00000	42.00000	19.50000	0.22238	19.083	0.0	0.0
	25.00000	42.00000	19.50000	0.22449	19.083	0.0	0.0
	26.00000	42.00000	19.50000	0.22662	19.083	0.0	0.0
	27.00000	42.00000	19.50000	0.22875	19.083	0.0	0.0
	28.00000	42.00000	19.50000	0.23085	19.083	0.0	0.0
	29.00000	42.00000	19.50000	0.23292	19.083	0.0	0.0
	30.00000	42.00000	19.50000	0.23491	19.083	0.0	0.0
	31.00000	42.00000	19.50000	0.23680	19.083	0.0	0.0
	32.00000	42.00000	19.50000	0.23854	19.083	0.0	0.0
	33.00000	42.00000	19.50000	0.24009	19.083	0.0	0.0
	34.00000	42.00000	19.50000	0.24140	19.083	0.0	0.0
	35.00000	42.00000	19.50000	0.24243	19.083	0.0	0.0
	36.00000	42.00000	19.50000	0.24311	19.083	0.0	0.0
	37.00000	42.00000	19.50000	0.24342	19.083	0.0	0.0
	38.00000	42.00000	19.50000	0.24331	19.083	0.0	0.0
	39.00000	42.00000	19.50000	0.24276	19.083	0.0	0.0
	40.00000	42.00000	19.50000	0.24175	19.083	0.0	0.0
	41.00000	42.00000	19.50000	0.24027	19.083	0.0	0.0
	42.00000	42.00000	19.50000	0.23833	19.083	0.0	0.0
	43.00000	42.00000	19.50000	0.23595	19.083	0.0	0.0
	44.00000	42.00000	19.50000	0.23313	19.083	0.0	0.0
	45.00000	42.00000	19.50000	0.22992	19.083	0.0	0.0
	46.00000	42.00000	19.50000	0.22634	19.083	0.0	0.0
	47.00000	42.00000	19.50000	0.22244	19.083	0.0	0.0
	48.00000	42.00000	19.50000	0.21825	19.083	0.0	0.0
	49.00000	42.00000	19.50000	0.21381	19.083	0.0	0.0
	50.00000	42.00000	19.50000	0.20916	19.083	0.0	0.0
	51.00000	42.00000	19.50000	0.20435	19.083	0.0	0.0
	52.00000	42.00000	19.50000	0.19940	19.083	0.0	0.0
	53.00000	42.00000	19.50000	0.19436	19.083	0.0	0.0
	54.00000	42.00000	19.50000	0.18925	19.083	0.0	0.0
	-25.00000	43.00000	19.50000	0.16411	19.083	0.0	0.0
	-24.00000	43.00000	19.50000	0.16617	19.083	0.0	0.0
	-23.00000	43.00000	19.50000	0.17081	19.083	0.0	0.0
	-22.00000	43.00000	19.50000	0.17544	19.083	0.0	0.0
	-21.00000	43.00000	19.50000	0.18055	19.083	0.0	0.0
	-20.00000	43.00000	19.50000	0.18461	19.083	0.0	0.0
	-19.00000	43.00000	19.50000	0.18910	19.083	0.0	0.0
	-18.00000	43.00000	19.50000	0.19349	19.083	0.0	0.0
	-17.00000	43.00000	19.50000	0.19776	19.083	0.0	0.0
	-16.00000	43.00000	19.50000	0.20186	19.083	0.0	0.0
	-15.00000	43.00000	19.50000	0.20577	19.083	0.0	0.0
	-14.00000	43.00000	19.50000	0.20945	19.083	0.0	0.0
	-13.00000	43.00000	19.50000	0.21288	19.083	0.0	0.0
	-12.00000	43.00000	19.50000	0.21603	19.083	0.0	0.0
	-11.00000	43.00000	19.50000	0.21885	19.083	0.0	0.0
	-10.00000	43.00000	19.50000	0.22133	19.083	0.0	0.0
	-9.00000	43.00000	19.50000	0.22346	19.083	0.0	0.0
	-8.00000	43.00000	19.50000	0.22520	19.083	0.0	0.0
	-7.00000	43.00000	19.50000	0.22657	19.083	0.0	0.0
	-6.00000	43.00000	19.50000	0.22755	19.083	0.0	0.0
	-5.00000	43.00000	19.50000	0.22817	19.083	0.0	0.0
	-4.00000	43.00000	19.50000	0.22845	19.083	0.0	0.0
	-3.00000	43.00000	19.50000	0.22841	19.083	0.0	0.0
	-2.00000	43.00000	19.50000	0.22809	19.083	0.0	0.0
	-1.00000	43.00000	19.50000	0.22756	19.083	0.0	0.0
	0.00000	43.00000	19.50000	0.22685	19.083	0.0	0.0
	1.00000	43.00000	19.50000	0.22604	19.083	0.0	0.0
	2.00000	43.00000	19.50000	0.22517	19.083	0.0	0.0
	3.00000	43.00000	19.50000	0.22430	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
4.00000	43.00000	19.50000	0.22349	19.083	0.0	0.0	0.0
5.00000	43.00000	19.50000	0.22278	19.083	0.0	0.0	0.0
6.00000	43.00000	19.50000	0.22221	19.083	0.0	0.0	0.0
7.00000	43.00000	19.50000	0.22180	19.083	0.0	0.0	0.0
8.00000	43.00000	19.50000	0.22158	19.083	0.0	0.0	0.0
9.00000	43.00000	19.50000	0.22156	19.083	0.0	0.0	0.0
10.00000	43.00000	19.50000	0.22174	19.083	0.0	0.0	0.0
11.00000	43.00000	19.50000	0.22212	19.083	0.0	0.0	0.0
12.00000	43.00000	19.50000	0.22269	19.083	0.0	0.0	0.0
13.00000	43.00000	19.50000	0.22342	19.083	0.0	0.0	0.0
14.00000	43.00000	19.50000	0.22431	19.083	0.0	0.0	0.0
15.00000	43.00000	19.50000	0.22534	19.083	0.0	0.0	0.0
16.00000	43.00000	19.50000	0.22647	19.083	0.0	0.0	0.0
17.00000	43.00000	19.50000	0.22770	19.083	0.0	0.0	0.0
18.00000	43.00000	19.50000	0.22899	19.083	0.0	0.0	0.0
19.00000	43.00000	19.50000	0.23034	19.083	0.0	0.0	0.0
20.00000	43.00000	19.50000	0.23171	19.083	0.0	0.0	0.0
21.00000	43.00000	19.50000	0.23310	19.083	0.0	0.0	0.0
22.00000	43.00000	19.50000	0.23449	19.083	0.0	0.0	0.0
23.00000	43.00000	19.50000	0.23587	19.083	0.0	0.0	0.0
24.00000	43.00000	19.50000	0.23721	19.083	0.0	0.0	0.0
25.00000	43.00000	19.50000	0.23853	19.083	0.0	0.0	0.0
26.00000	43.00000	19.50000	0.23979	19.083	0.0	0.0	0.0
27.00000	43.00000	19.50000	0.24100	19.083	0.0	0.0	0.0
28.00000	43.00000	19.50000	0.24213	19.083	0.0	0.0	0.0
29.00000	43.00000	19.50000	0.24317	19.083	0.0	0.0	0.0
30.00000	43.00000	19.50000	0.24410	19.083	0.0	0.0	0.0
31.00000	43.00000	19.50000	0.24488	19.083	0.0	0.0	0.0
32.00000	43.00000	19.50000	0.24550	19.083	0.0	0.0	0.0
33.00000	43.00000	19.50000	0.24592	19.083	0.0	0.0	0.0
34.00000	43.00000	19.50000	0.24611	19.083	0.0	0.0	0.0
35.00000	43.00000	19.50000	0.24603	19.083	0.0	0.0	0.0
36.00000	43.00000	19.50000	0.24566	19.083	0.0	0.0	0.0
37.00000	43.00000	19.50000	0.24496	19.083	0.0	0.0	0.0
38.00000	43.00000	19.50000	0.24391	19.083	0.0	0.0	0.0
39.00000	43.00000	19.50000	0.24249	19.083	0.0	0.0	0.0
40.00000	43.00000	19.50000	0.24070	19.083	0.0	0.0	0.0
41.00000	43.00000	19.50000	0.23853	19.083	0.0	0.0	0.0
42.00000	43.00000	19.50000	0.23599	19.083	0.0	0.0	0.0
43.00000	43.00000	19.50000	0.23309	19.083	0.0	0.0	0.0
44.00000	43.00000	19.50000	0.22985	19.083	0.0	0.0	0.0
45.00000	43.00000	19.50000	0.22629	19.083	0.0	0.0	0.0
46.00000	43.00000	19.50000	0.22244	19.083	0.0	0.0	0.0
47.00000	43.00000	19.50000	0.21833	19.083	0.0	0.0	0.0
48.00000	43.00000	19.50000	0.21399	19.083	0.0	0.0	0.0
49.00000	43.00000	19.50000	0.20946	19.083	0.0	0.0	0.0
50.00000	43.00000	19.50000	0.20478	19.083	0.0	0.0	0.0
51.00000	43.00000	19.50000	0.19996	19.083	0.0	0.0	0.0
52.00000	43.00000	19.50000	0.19504	19.083	0.0	0.0	0.0
53.00000	43.00000	19.50000	0.19006	19.083	0.0	0.0	0.0
54.00000	43.00000	19.50000	0.18503	19.083	0.0	0.0	0.0
55.00000	43.00000	19.50000	0.17999	19.083	0.0	0.0	0.0
-25.00000	44.00000	19.50000	0.15808	19.083	0.0	0.0	0.0
-24.00000	44.00000	19.50000	0.16259	19.083	0.0	0.0	0.0
-23.00000	44.00000	19.50000	0.16713	19.083	0.0	0.0	0.0
-22.00000	44.00000	19.50000	0.17168	19.083	0.0	0.0	0.0
-21.00000	44.00000	19.50000	0.17622	19.083	0.0	0.0	0.0
-20.00000	44.00000	19.50000	0.18073	19.083	0.0	0.0	0.0
-19.00000	44.00000	19.50000	0.18518	19.083	0.0	0.0	0.0
-18.00000	44.00000	19.50000	0.18957	19.083	0.0	0.0	0.0
-17.00000	44.00000	19.50000	0.19386	19.083	0.0	0.0	0.0
-16.00000	44.00000	19.50000	0.19803	19.083	0.0	0.0	0.0
-15.00000	44.00000	19.50000	0.20204	19.083	0.0	0.0	0.0
-14.00000	44.00000	19.50000	0.20588	19.083	0.0	0.0	0.0
-13.00000	44.00000	19.50000	0.20952	19.083	0.0	0.0	0.0
-12.00000	44.00000	19.50000	0.21293	19.083	0.0	0.0	0.0
-11.00000	44.00000	19.50000	0.21609	19.083	0.0	0.0	0.0
-10.00000	44.00000	19.50000	0.21897	19.083	0.0	0.0	0.0
-9.00000	44.00000	19.50000	0.22157	19.083	0.0	0.0	0.0
-8.00000	44.00000	19.50000	0.22387	19.083	0.0	0.0	0.0
-7.00000	44.00000	19.50000	0.22586	19.083	0.0	0.0	0.0
-6.00000	44.00000	19.50000	0.22755	19.083	0.0	0.0	0.0
-5.00000	44.00000	19.50000	0.22894	19.083	0.0	0.0	0.0
-4.00000	44.00000	19.50000	0.23005	19.083	0.0	0.0	0.0
-3.00000	44.00000	19.50000	0.23091	19.083	0.0	0.0	0.0
-2.00000	44.00000	19.50000	0.23153	19.083	0.0	0.0	0.0
-1.00000	44.00000	19.50000	0.23195	19.083	0.0	0.0	0.0
0.00000	44.00000	19.50000	0.23222	19.083	0.0	0.0	0.0
1.00000	44.00000	19.50000	0.23238	19.083	0.0	0.0	0.0
2.00000	44.00000	19.50000	0.23246	19.083	0.0	0.0	0.0
3.00000	44.00000	19.50000	0.23251	19.083	0.0	0.0	0.0
4.00000	44.00000	19.50000	0.23257	19.083	0.0	0.0	0.0
5.00000	44.00000	19.50000	0.23266	19.083	0.0	0.0	0.0
6.00000	44.00000	19.50000	0.23281	19.083	0.0	0.0	0.0
7.00000	44.00000	19.50000	0.23305	19.083	0.0	0.0	0.0
8.00000	44.00000	19.50000	0.23339	19.083	0.0	0.0	0.0
9.00000	44.00000	19.50000	0.23384	19.083	0.0	0.0	0.0
10.00000	44.00000	19.50000	0.23440	19.083	0.0	0.0	0.0
11.00000	44.00000	19.50000	0.23506	19.083	0.0	0.0	0.0
12.00000	44.00000	19.50000	0.23582	19.083	0.0	0.0	0.0
13.00000	44.00000	19.50000	0.23667	19.083	0.0	0.0	0.0
14.00000	44.00000	19.50000	0.23759	19.083	0.0	0.0	0.0
15.00000	44.00000	19.50000	0.23856	19.083	0.0	0.0	0.0
16.00000	44.00000	19.50000	0.23958	19.083	0.0	0.0	0.0
17.00000	44.00000	19.50000	0.24061	19.083	0.0	0.0	0.0
18.00000	44.00000	19.50000	0.24165	19.083	0.0	0.0	0.0
19.00000	44.00000	19.50000	0.24267	19.083	0.0	0.0	0.0
20.00000	44.00000	19.50000	0.24367	19.083	0.0	0.0	0.0
21.00000	44.00000	19.50000	0.24462	19.083	0.0	0.0	0.0
22.00000	44.00000	19.50000	0.24552	19.083	0.0	0.0	0.0
23.00000	44.00000	19.50000	0.24636	19.083	0.0	0.0	0.0
24.00000	44.00000	19.50000	0.24713	19.083	0.0	0.0	0.0
25.00000	44.00000	19.50000	0.24781	19.083	0.0	0.0	0.0
26.00000	44.00000	19.50000	0.24839	19.083	0.0	0.0	0.0
27.00000	44.00000	19.50000	0.24888	19.083	0.0	0.0	0.0
28.00000	44.00000	19.50000	0.24925	19.083	0.0	0.0	0.0
29.00000	44.00000	19.50000	0.24949	19.083	0.0	0.0	0.0
30.00000	44.00000	19.50000	0.24959	19.083	0.0	0.0	0.0
31.00000	44.00000	19.50000	0.24953	19.083	0.0	0.0	0.0
32.00000	44.00000	19.50000	0.24929	19.083	0.0	0.0	0.0
33.00000	44.00000	19.50000	0.24886	19.083	0.0	0.0	0.0
34.00000	44.00000	19.50000	0.24819	19.083	0.0	0.0	0.0
35.00000	44.00000	19.50000	0.24729	19.083	0.0	0.0	0.0
36.00000	44.00000	19.50000	0.24611	19.083	0.0	0.0	0.0
37.00000	44.00000	19.50000	0.24466	19.083	0.0	0.0	0.0
38.00000	44.00000	19.50000	0.24290	19.083	0.0	0.0	0.0
39.00000	44.00000	19.50000	0.24084	19.083	0.0	0.0	0.0
40.00000	44.00000	19.50000	0.23847	19.083	0.0	0.0	0.0
41.00000	44.00000	19.50000	0.23579	19.083	0.0	0.0	0.0
42.00000	44.00000	19.50000	0.23281	19.083	0.0	0.0	0.0
43.00000	44.00000	19.50000	0.22953	19.083	0.0	0.0	0.0
44.00000	44.00000	19.50000	0.22598	19.083	0.0	0.0	0.0
45.00000	44.00000	19.50000	0.22218	19.083	0.0	0.0	0.0
46.00000	44.00000	19.50000	0.21815	19.083	0.0	0.0	0.0
47.00000	44.00000	19.50000	0.21391	19.083	0.0	0.0	0.0
48.00000	44.00000	19.50000	0.20949	19.083	0.0	0.0	0.0
49.00000	44.00000	19.50000	0.20492	19.083	0.0	0.0	0.0
50.00000	44.00000	19.50000	0.20023	19.083	0.0	0.0	0.0
51.00000	44.00000	19.50000	0.19544	19.083	0.0	0.0	0.0
52.00000	44.00000	19.50000	0.19059	19.083	0.0	0.0	0.0

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location		Displacement		Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	53.00000	44.00000	19.50000	0.18568	19.083	0.0	0.0	0.0
	54.00000	44.00000	19.50000	0.18076	19.083	0.0	0.0	0.0
	55.00000	44.00000	19.50000	0.17583	19.083	0.0	0.0	0.0
	-25.00000	45.00000	19.50000	0.15459	19.083	0.0	0.0	0.0
	-24.00000	45.00000	19.50000	0.15899	19.083	0.0	0.0	0.0
	-23.00000	45.00000	19.50000	0.16342	19.083	0.0	0.0	0.0
	-22.00000	45.00000	19.50000	0.16787	19.083	0.0	0.0	0.0
	-21.00000	45.00000	19.50000	0.17232	19.083	0.0	0.0	0.0
	-20.00000	45.00000	19.50000	0.17676	19.083	0.0	0.0	0.0
	-19.00000	45.00000	19.50000	0.18116	19.083	0.0	0.0	0.0
	-18.00000	45.00000	19.50000	0.18552	19.083	0.0	0.0	0.0
	-17.00000	45.00000	19.50000	0.18980	19.083	0.0	0.0	0.0
	-16.00000	45.00000	19.50000	0.19399	19.083	0.0	0.0	0.0
	-15.00000	45.00000	19.50000	0.19806	19.083	0.0	0.0	0.0
	-14.00000	45.00000	19.50000	0.20200	19.083	0.0	0.0	0.0
	-13.00000	45.00000	19.50000	0.20578	19.083	0.0	0.0	0.0
	-12.00000	45.00000	19.50000	0.20937	19.083	0.0	0.0	0.0
	-11.00000	45.00000	19.50000	0.21277	19.083	0.0	0.0	0.0
	-10.00000	45.00000	19.50000	0.21595	19.083	0.0	0.0	0.0
	-9.00000	45.00000	19.50000	0.21890	19.083	0.0	0.0	0.0
	-8.00000	45.00000	19.50000	0.22161	19.083	0.0	0.0	0.0
	-7.00000	45.00000	19.50000	0.22407	19.083	0.0	0.0	0.0
	-6.00000	45.00000	19.50000	0.22628	19.083	0.0	0.0	0.0
	-5.00000	45.00000	19.50000	0.22826	19.083	0.0	0.0	0.0
	-4.00000	45.00000	19.50000	0.22999	19.083	0.0	0.0	0.0
	-3.00000	45.00000	19.50000	0.23152	19.083	0.0	0.0	0.0
	-2.00000	45.00000	19.50000	0.23284	19.083	0.0	0.0	0.0
	-1.00000	45.00000	19.50000	0.23399	19.083	0.0	0.0	0.0
	0.00000	45.00000	19.50000	0.23499	19.083	0.0	0.0	0.0
	1.00000	45.00000	19.50000	0.23588	19.083	0.0	0.0	0.0
	2.00000	45.00000	19.50000	0.23668	19.083	0.0	0.0	0.0
	3.00000	45.00000	19.50000	0.23742	19.083	0.0	0.0	0.0
	4.00000	45.00000	19.50000	0.23813	19.083	0.0	0.0	0.0
	5.00000	45.00000	19.50000	0.23882	19.083	0.0	0.0	0.0
	6.00000	45.00000	19.50000	0.23953	19.083	0.0	0.0	0.0
	7.00000	45.00000	19.50000	0.24025	19.083	0.0	0.0	0.0
	8.00000	45.00000	19.50000	0.24102	19.083	0.0	0.0	0.0
	9.00000	45.00000	19.50000	0.24182	19.083	0.0	0.0	0.0
	10.00000	45.00000	19.50000	0.24266	19.083	0.0	0.0	0.0
	11.00000	45.00000	19.50000	0.24353	19.083	0.0	0.0	0.0
	12.00000	45.00000	19.50000	0.24443	19.083	0.0	0.0	0.0
	13.00000	45.00000	19.50000	0.24536	19.083	0.0	0.0	0.0
	14.00000	45.00000	19.50000	0.24629	19.083	0.0	0.0	0.0
	15.00000	45.00000	19.50000	0.24721	19.083	0.0	0.0	0.0
	16.00000	45.00000	19.50000	0.24812	19.083	0.0	0.0	0.0
	17.00000	45.00000	19.50000	0.24899	19.083	0.0	0.0	0.0
	18.00000	45.00000	19.50000	0.24982	19.083	0.0	0.0	0.0
	19.00000	45.00000	19.50000	0.25058	19.083	0.0	0.0	0.0
	20.00000	45.00000	19.50000	0.25127	19.083	0.0	0.0	0.0
	21.00000	45.00000	19.50000	0.25188	19.083	0.0	0.0	0.0
	22.00000	45.00000	19.50000	0.25239	19.083	0.0	0.0	0.0
	23.00000	45.00000	19.50000	0.25281	19.083	0.0	0.0	0.0
	24.00000	45.00000	19.50000	0.25311	19.083	0.0	0.0	0.0
	25.00000	45.00000	19.50000	0.25329	19.083	0.0	0.0	0.0
	26.00000	45.00000	19.50000	0.25334	19.083	0.0	0.0	0.0
	27.00000	45.00000	19.50000	0.25327	19.083	0.0	0.0	0.0
	28.00000	45.00000	19.50000	0.25305	19.083	0.0	0.0	0.0
	29.00000	45.00000	19.50000	0.25268	19.083	0.0	0.0	0.0
	30.00000	45.00000	19.50000	0.25215	19.083	0.0	0.0	0.0
	31.00000	45.00000	19.50000	0.25145	19.083	0.0	0.0	0.0
	32.00000	45.00000	19.50000	0.25056	19.083	0.0	0.0	0.0
	33.00000	45.00000	19.50000	0.24948	19.083	0.0	0.0	0.0
	34.00000	45.00000	19.50000	0.24818	19.083	0.0	0.0	0.0
	35.00000	45.00000	19.50000	0.24665	19.083	0.0	0.0	0.0
	36.00000	45.00000	19.50000	0.24489	19.083	0.0	0.0	0.0
	37.00000	45.00000	19.50000	0.24288	19.083	0.0	0.0	0.0
	38.00000	45.00000	19.50000	0.24061	19.083	0.0	0.0	0.0
	39.00000	45.00000	19.50000	0.23807	19.083	0.0	0.0	0.0
	40.00000	45.00000	19.50000	0.23528	19.083	0.0	0.0	0.0
	41.00000	45.00000	19.50000	0.23224	19.083	0.0	0.0	0.0
	42.00000	45.00000	19.50000	0.22894	19.083	0.0	0.0	0.0
	43.00000	45.00000	19.50000	0.22540	19.083	0.0	0.0	0.0
	44.00000	45.00000	19.50000	0.22165	19.083	0.0	0.0	0.0
	45.00000	45.00000	19.50000	0.21769	19.083	0.0	0.0	0.0
	46.00000	45.00000	19.50000	0.21354	19.083	0.0	0.0	0.0
	47.00000	45.00000	19.50000	0.20924	19.083	0.0	0.0	0.0
	48.00000	45.00000	19.50000	0.20479	19.083	0.0	0.0	0.0
	49.00000	45.00000	19.50000	0.20022	19.083	0.0	0.0	0.0
	50.00000	45.00000	19.50000	0.19557	19.083	0.0	0.0	0.0
	51.00000	45.00000	19.50000	0.19084	19.083	0.0	0.0	0.0
	52.00000	45.00000	19.50000	0.18606	19.083	0.0	0.0	0.0
	53.00000	45.00000	19.50000	0.18126	19.083	0.0	0.0	0.0
	54.00000	45.00000	19.50000	0.17644	19.083	0.0	0.0	0.0
	55.00000	45.00000	19.50000	0.17164	19.083	0.0	0.0	0.0
Grid 2	-25.00000	-20.00000	15.00000	0.15109	14.755	-1.6627E-6	-0.043196	0.0
	-24.00000	-20.00000	15.00000	0.15537	14.755	-1.8146E-6	-0.045396	0.0
	-23.00000	-20.00000	15.00000	0.15969	14.755	-1.9815E-6	-0.047721	0.0
	-22.00000	-20.00000	15.00000	0.16403	14.755	-2.1650E-6	-0.050177	0.0
	-21.00000	-20.00000	15.00000	0.16839	14.755	-2.3667E-6	-0.052768	0.0
	-20.00000	-20.00000	15.00000	0.17274	14.755	-2.5884E-6	-0.055501	0.0
	-19.00000	-20.00000	15.00000	0.17708	14.755	-2.8318E-6	-0.058381	0.0
	-18.00000	-20.00000	15.00000	0.18138	14.755	-3.0987E-6	-0.061413	0.0
	-17.00000	-20.00000	15.00000	0.18563	14.755	-3.3913E-6	-0.064600	0.0
	-16.00000	-20.00000	15.00000	0.18981	14.755	-3.7113E-6	-0.067945	0.0
	-15.00000	-20.00000	15.00000	0.19390	14.755	-4.0608E-6	-0.071451	0.0
	-14.00000	-20.00000	15.00000	0.19789	14.755	-4.4415E-6	-0.075116	0.0
	-13.00000	-20.00000	15.00000	0.20175	14.755	-4.8551E-6	-0.078939	0.0
	-12.00000	-20.00000	15.00000	0.20546	14.755	-5.3029E-6	-0.082917	0.0
	-11.00000	-20.00000	15.00000	0.20902	14.755	-5.7858E-6	-0.087041	0.0
	-10.00000	-20.00000	15.00000	0.21241	14.755	-6.3044E-6	-0.091303	0.0
	-9.00000	-20.00000	15.00000	0.21560	14.755	-6.8582E-6	-0.095689	0.0
	-8.00000	-20.00000	15.00000	0.21861	14.755	-7.4462E-6	-0.100108	0.0
	-7.00000	-20.00000	15.00000	0				

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	21.00000	-20.00000	15.00000	0.25578	14.755	-12.191E-6	-0.13227	0.0
	22.00000	-20.00000	15.00000	0.25598	14.755	-11.490E-6	-0.12787	0.0
	23.00000	-20.00000	15.00000	0.25606	14.755	-10.783E-6	-0.12334	0.0
	24.00000	-20.00000	15.00000	0.25599	14.755	-10.080E-6	-0.11872	0.0
	25.00000	-20.00000	15.00000	0.25579	14.755	-9.3880E-6	-0.11406	0.0
	26.00000	-20.00000	15.00000	0.25543	14.755	-8.7149E-6	-0.10939	0.0
	27.00000	-20.00000	15.00000	0.25492	14.755	-8.0662E-6	-0.10476	0.0
	28.00000	-20.00000	15.00000	0.25425	14.755	-7.4462E-6	-0.10018	0.0
	29.00000	-20.00000	15.00000	0.25342	14.755	-6.8582E-6	-0.09569	0.0
	30.00000	-20.00000	15.00000	0.25241	14.755	-6.3044E-6	-0.09130	0.0
	31.00000	-20.00000	15.00000	0.25123	14.755	-5.7858E-6	-0.08704	0.0
	32.00000	-20.00000	15.00000	0.24986	14.755	-5.3029E-6	-0.08291	0.0
	33.00000	-20.00000	15.00000	0.24829	14.755	-4.8551E-6	-0.07893	0.0
	34.00000	-20.00000	15.00000	0.24652	14.755	-4.4415E-6	-0.07511	0.0
	35.00000	-20.00000	15.00000	0.24455	14.755	-4.0608E-6	-0.07145	0.0
	36.00000	-20.00000	15.00000	0.24235	14.755	-3.7113E-6	-0.06794	0.0
	37.00000	-20.00000	15.00000	0.23993	14.755	-3.3913E-6	-0.06460	0.0
	38.00000	-20.00000	15.00000	0.23729	14.755	-3.0987E-6	-0.06141	0.0
	39.00000	-20.00000	15.00000	0.23443	14.755	-2.8318E-6	-0.05838	0.0
	40.00000	-20.00000	15.00000	0.23134	14.755	-2.5884E-6	-0.05550	0.0
	41.00000	-20.00000	15.00000	0.22804	14.755	-2.3667E-6	-0.05276	0.0
	42.00000	-20.00000	15.00000	0.22454	14.755	-2.1650E-6	-0.05017	0.0
	43.00000	-20.00000	15.00000	0.22083	14.755	-1.9815E-6	-0.04772	0.0
	44.00000	-20.00000	15.00000	0.21695	14.755	-1.8146E-6	-0.04539	0.0
	45.00000	-20.00000	15.00000	0.21290	14.755	-1.6627E-6	-0.04319	0.0
	46.00000	-20.00000	15.00000	0.20870	14.755	-1.5247E-6	-0.04114	0.0
	47.00000	-20.00000	15.00000	0.20438	14.755	-1.3991E-6	-0.03914	0.0
	48.00000	-20.00000	15.00000	0.19994	14.755	-1.2848E-6	-0.03728	0.0
	49.00000	-20.00000	15.00000	0.19542	14.755	-1.1808E-6	-0.03552	0.0
	50.00000	-20.00000	15.00000	0.19082	14.755	-1.0860E-6	-0.03385	0.0
	51.00000	-20.00000	15.00000	0.18617	14.755	0.0	-0.03228	0.0
	52.00000	-20.00000	15.00000	0.18150	14.755	0.0	-0.03079	0.0
	53.00000	-20.00000	15.00000	0.17681	14.755	0.0	-0.02938	0.0
	54.00000	-20.00000	15.00000	0.17212	14.755	0.0	-0.02804	0.0
	55.00000	-20.00000	15.00000	0.16744	14.755	0.0	-0.02678	0.0
	-25.00000	-19.00000	15.00000	0.15460	14.755	-1.7950E-6	-0.04515	0.0
	-24.00000	-19.00000	15.00000	0.15900	14.755	-1.9644E-6	-0.047528	0.0
	-23.00000	-19.00000	15.00000	0.16343	14.755	-2.1515E-6	-0.05004	0.0
	-22.00000	-19.00000	15.00000	0.16788	14.755	-2.3581E-6	-0.05270	0.0
	-21.00000	-19.00000	15.00000	0.17233	14.755	-2.5862E-6	-0.05554	0.0
	-20.00000	-19.00000	15.00000	0.17677	14.755	-2.8382E-6	-0.05850	0.0
	-19.00000	-19.00000	15.00000	0.18118	14.755	-3.1162E-6	-0.06165	0.0
	-18.00000	-19.00000	15.00000	0.18554	14.755	-3.4228E-6	-0.06498	0.0
	-17.00000	-19.00000	15.00000	0.18982	14.755	-3.7606E-6	-0.06850	0.0
	-16.00000	-19.00000	15.00000	0.19401	14.755	-4.1324E-6	-0.07220	0.0
	-15.00000	-19.00000	15.00000	0.19809	14.755	-4.5407E-6	-0.07609	0.0
	-14.00000	-19.00000	15.00000	0.20202	14.755	-4.9884E-6	-0.08017	0.0
	-13.00000	-19.00000	15.00000	0.20580	14.755	-5.4778E-6	-0.08445	0.0
	-12.00000	-19.00000	15.00000	0.20940	14.755	-6.0112E-6	-0.08892	0.0
	-11.00000	-19.00000	15.00000	0.21280	14.755	-6.5904E-6	-0.09358	0.0
	-10.00000	-19.00000	15.00000	0.21598	14.755	-7.2164E-6	-0.09841	0.0
	-9.00000	-19.00000	15.00000	0.21893	14.755	-7.8895E-6	-0.10340	0.0
	-8.00000	-19.00000	15.00000	0.22164	14.755	-8.6088E-6	-0.10853	0.0
	-7.00000	-19.00000	15.00000	0.22410	14.755	-9.3723E-6	-0.11379	0.0
	-6.00000	-19.00000	15.00000	0.22632	14.755	-10.176E-6	-0.11913	0.0
	-5.00000	-19.00000	15.00000	0.22829	14.755	-11.015E-6	-0.12453	0.0
	-4.00000	-19.00000	15.00000	0.23003	14.755	-11.882E-6	-0.12994	0.0
	-3.00000	-19.00000	15.00000	0.23155	14.755	-12.769E-6	-0.13532	0.0
	-2.00000	-19.00000	15.00000	0.23288	14.755	-13.664E-6	-0.14061	0.0
	-1.00000	-19.00000	15.00000	0.23403	14.755	-14.555E-6	-0.14577	0.0
	0.00000	-19.00000	15.00000	0.23504	14.755	-15.430E-6	-0.15074	0.0
	1.00000	-19.00000	15.00000	0.23592	14.755	-16.274E-6	-0.15546	0.0
	2.00000	-19.00000	15.00000	0.23672	14.755	-17.074E-6	-0.15986	0.0
	3.00000	-19.00000	15.00000	0.23746	14.755	-17.817E-6	-0.16390	0.0
	4.00000	-19.00000	15.00000	0.23817	14.755	-18.488E-6	-0.16752	0.0
	5.00000	-19.00000	15.00000	0.23887	14.755	-19.077E-6	-0.17067	0.0
	6.00000	-19.00000	15.00000	0.23957	14.755	-19.573E-6	-0.17332	0.0
	7.00000	-19.00000	15.00000	0.24030	14.755	-19.968E-6	-0.17541	0.0
	8.00000	-19.00000	15.00000	0.24107	14.755	-20.255E-6	-0.17692	0.0
	9.00000	-19.00000	15.00000	0.24187	14.755	-20.429E-6	-0.17784	0.0
	10.00000	-19.00000	15.00000	0.24270	14.755	-20.487E-6	-0.17815	0.0
	11.00000	-19.00000	15.00000	0.24358	14.755	-20.429E-6	-0.17784	0.0
	12.00000	-19.00000	15.00000	0.24448	14.755	-20.255E-6	-0.17692	0.0
	13.00000	-19.00000	15.00000	0.24541	14.755	-19.968E-6	-0.17541	0.0
	14.00000	-19.00000	15.00000	0.24634	14.755	-19.573E-6	-0.17332	0.0
	15.00000	-19.00000	15.00000	0.24726	14.755	-19.077E-6	-0.17067	0.0
	16.00000	-19.00000	15.00000	0.24817	14.755	-18.488E-6	-0.16752	0.0
	17.00000	-19.00000	15.00000	0.24904	14.755	-17.817E-6	-0.16390	0.0
	18.00000	-19.00000	15.00000	0.24986	14.755	-17.074E-6	-0.15986	0.0
	19.00000	-19.00000	15.00000	0.25062	14.755	-16.274E-6	-0.15546	0.0
	20.00000	-19.00000	15.00000	0.25131	14.755	-15.430E-6	-0.15074	0.0
	21.00000	-19.00000	15.00000	0.25192	14.755	-14.555E-6	-0.14577	0.0
	22.00000	-19.00000	15.00000	0.25243	14.755	-13.664E-6	-0.14061	0.0
	23.00000	-19.00000	15.00000	0.25284	14.755	-12.769E-6	-0.13532	0.0
	24.00000	-19.00000	15.00000	0.25314	14.755	-11.882E-6	-0.12994	0.0
	25.00000	-19.00000	15.00000	0.25332	14.755	-11.015E-6	-0.12453	0.0
	26.00000	-19.00000	15.00000	0.25338	14.755	-10.176E-6	-0.11913	0.0
	27.00000	-19.00000	15.00000	0.25330	14.755	-9.3723E-6	-0.11379	0.0
	28.00000	-19.00000	15.00000	0.25308	14.755	-8.6088E-6	-0.10853	0.0
	29.00000	-19.00000	15.00000	0.25271	14.755	-7.8895E-6	-0.10340	0.0
	30.00000	-19.00000	15.00000	0.25218	14.755	-7.2164E-6	-0.09841	0.0
	31.00000	-19.00000	15.00000	0.25148	14.755	-6.5904E-6	-0.09358	0.0
	32.00000	-19.00000	15.00000	0.25059	14.755	-6.0112E-6	-0.08892	0.0
	33.00000	-19.00000	15.00000	0.24950	14.755	-5.4778E-6	-0.08445	0.0
	34.00000	-19.00000	15.00000	0.24820	14.755	-4.9884E-6	-0.08017	0.0
	35.00000	-19.00000	15.00000	0.24667	14.755	-4.5407E-6	-0.07609	0.0
	36.00000	-19.00000	15.00000	0.24491	14.755	-4.1324E-6	-0.07220	0.0
	37.00000	-19.00000	15.00000	0.24289	14.755	-3.7606E-6	-0.06850	0.0
	38.00000	-19.00000	15.00000	0.24062	14.755	-3.4228E-6	-0.06498	0.0
	39.00000	-19.00000	15.00000	0.23809	14.755	-3.1162E-6	-0.06165	0.0
	40.00000	-19.00000	15.00000	0.23530	14.755	-2.8382E-6	-0.05850	0.0
	41.00000	-19.00000	15.00000	0.23225	14.755	-2.5862E-6	-0.05554	0.0
	42.00000	-19.00000	15.00000	0.22895	14.755	-2.3581E-6	-0.05270	0.0
	43.00000	-19.00000	15.00000	0.22542	14.755	-2.1515E-6	-0.05004	0.0
	44.00000	-19.00000	15.00000					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses
X [m]	Y [m]	Z [Level] [mOD]	Calc Level [mOD] Vert Stress [kN/m ²] Sum Princ [kN/m ²] Vert Strain [-]
-11.00000	-18.00000	15.00000	0.21612 14.755 -7.5270E-6 -0.10074 0.0
-10.00000	-18.00000	15.00000	0.21900 14.755 -8.2861E-6 -0.10622 0.0
-9.00000	-18.00000	15.00000	0.22160 14.755 -9.1084E-6 -0.11192 0.0
-8.00000	-18.00000	15.00000	0.22390 14.755 -9.9936E-6 -0.11780 0.0
-7.00000	-18.00000	15.00000	0.22590 14.755 -10.9408E-6 -0.12385 0.0
-6.00000	-18.00000	15.00000	0.22759 14.755 -11.9433E-6 -0.13003 0.0
-5.00000	-18.00000	15.00000	0.22898 14.755 -12.998E-6 -0.13630 0.0
-4.00000	-18.00000	15.00000	0.23009 14.755 -14.094E-6 -0.14261 0.0
-3.00000	-18.00000	15.00000	0.23095 14.755 -15.221E-6 -0.14891 0.0
-2.00000	-18.00000	15.00000	0.23157 14.755 -16.364E-6 -0.15514 0.0
-1.00000	-18.00000	15.00000	0.23200 14.755 -17.508E-6 -0.16122 0.0
0.00000	-18.00000	15.00000	0.23227 14.755 -18.635E-6 -0.16710 0.0
1.00000	-18.00000	15.00000	0.23243 14.755 -19.725E-6 -0.17269 0.0
2.00000	-18.00000	15.00000	0.23251 14.755 -20.761E-6 -0.17792 0.0
3.00000	-18.00000	15.00000	0.23256 14.755 -21.723E-6 -0.18273 0.0
4.00000	-18.00000	15.00000	0.23262 14.755 -22.595E-6 -0.18704 0.0
5.00000	-18.00000	15.00000	0.23271 14.755 -23.359E-6 -0.19080 0.0
6.00000	-18.00000	15.00000	0.23286 14.755 -24.004E-6 -0.19396 0.0
7.00000	-18.00000	15.00000	0.23311 14.755 -24.516E-6 -0.19646 0.0
8.00000	-18.00000	15.00000	0.23345 14.755 -24.889E-6 -0.19827 0.0
9.00000	-18.00000	15.00000	0.23390 14.755 -25.115E-6 -0.19937 0.0
10.00000	-18.00000	15.00000	0.23445 14.755 -25.191E-6 -0.19974 0.0
11.00000	-18.00000	15.00000	0.23512 14.755 -25.115E-6 -0.19937 0.0
12.00000	-18.00000	15.00000	0.23588 14.755 -24.889E-6 -0.19827 0.0
13.00000	-18.00000	15.00000	0.23672 14.755 -24.516E-6 -0.19646 0.0
14.00000	-18.00000	15.00000	0.23764 14.755 -24.004E-6 -0.19396 0.0
15.00000	-18.00000	15.00000	0.23862 14.755 -23.359E-6 -0.19080 0.0
16.00000	-18.00000	15.00000	0.23963 14.755 -22.595E-6 -0.18704 0.0
17.00000	-18.00000	15.00000	0.24066 14.755 -21.723E-6 -0.18273 0.0
18.00000	-18.00000	15.00000	0.24169 14.755 -20.761E-6 -0.17792 0.0
19.00000	-18.00000	15.00000	0.24272 14.755 -19.725E-6 -0.17269 0.0
20.00000	-18.00000	15.00000	0.24371 14.755 -18.635E-6 -0.16710 0.0
21.00000	-18.00000	15.00000	0.24467 14.755 -17.508E-6 -0.16122 0.0
22.00000	-18.00000	15.00000	0.24557 14.755 -16.364E-6 -0.15514 0.0
23.00000	-18.00000	15.00000	0.24640 14.755 -15.221E-6 -0.14891 0.0
24.00000	-18.00000	15.00000	0.24716 14.755 -14.094E-6 -0.14261 0.0
25.00000	-18.00000	15.00000	0.24784 14.755 -12.998E-6 -0.13630 0.0
26.00000	-18.00000	15.00000	0.24843 14.755 -11.943E-6 -0.13003 0.0
27.00000	-18.00000	15.00000	0.24891 14.755 -10.940E-6 -0.12385 0.0
28.00000	-18.00000	15.00000	0.24928 14.755 -9.9936E-6 -0.11780 0.0
29.00000	-18.00000	15.00000	0.24952 14.755 -9.1084E-6 -0.11192 0.0
30.00000	-18.00000	15.00000	0.24962 14.755 -8.2861E-6 -0.10622 0.0
31.00000	-18.00000	15.00000	0.24956 14.755 -7.5270E-6 -0.10074 0.0
32.00000	-18.00000	15.00000	0.24932 14.755 -6.8299E-6 -0.095473 0.0
33.00000	-18.00000	15.00000	0.24888 14.755 -6.1924E-6 -0.090442 0.0
34.00000	-18.00000	15.00000	0.24822 14.755 -5.6116E-6 -0.085447 0.0
35.00000	-18.00000	15.00000	0.24731 14.755 -5.0841E-6 -0.081087 0.0
36.00000	-18.00000	15.00000	0.24613 14.755 -4.6060E-6 -0.076761 0.0
37.00000	-18.00000	15.00000	0.24468 14.755 -4.1736E-6 -0.072665 0.0
38.00000	-18.00000	15.00000	0.24292 14.755 -3.7830E-6 -0.068791 0.0
39.00000	-18.00000	15.00000	0.24086 14.755 -3.4306E-6 -0.065180 0.0
40.00000	-18.00000	15.00000	0.23849 14.755 -3.1128E-6 -0.061680 0.0
41.00000	-18.00000	15.00000	0.23581 14.755 -2.8264E-6 -0.058426 0.0
42.00000	-18.00000	15.00000	0.23282 14.755 -2.5684E-6 -0.055360 0.0
43.00000	-18.00000	15.00000	0.22955 14.755 -2.3358E-6 -0.052472 0.0
44.00000	-18.00000	15.00000	0.22600 14.755 -2.1262E-6 -0.04975 0.0
45.00000	-18.00000	15.00000	0.22219 14.755 -1.9371E-6 -0.047195 0.0
46.00000	-18.00000	15.00000	0.21816 14.755 -1.7666E-6 -0.044786 0.0
47.00000	-18.00000	15.00000	0.21392 14.755 -1.6126E-6 -0.042520 0.0
48.00000	-18.00000	15.00000	0.20950 14.755 -1.4736E-6 -0.040386 0.0
49.00000	-18.00000	15.00000	0.20493 14.755 -1.3479E-6 -0.038370 0.0
50.00000	-18.00000	15.00000	0.20024 14.755 -1.2342E-6 -0.036487 0.0
51.00000	-18.00000	15.00000	0.19545 14.755 -1.1312E-6 -0.034706 0.0
52.00000	-18.00000	15.00000	0.19060 14.755 -1.0379E-6 -0.033028 0.0
53.00000	-18.00000	15.00000	0.18569 14.755 0.0 -0.031448 0.0
54.00000	-18.00000	15.00000	0.18076 14.755 0.0 -0.029956 0.0
55.00000	-18.00000	15.00000	0.17583 14.755 0.0 -0.028552 0.0
-25.00000	-17.00000	15.00000	0.16157 14.755 -2.0897E-6 -0.049316 0.0
-24.00000	-17.00000	15.00000	0.16619 14.755 -2.3005E-6 -0.052074 0.0
-23.00000	-17.00000	15.00000	0.17082 14.755 -2.5353E-6 -0.055013 0.0
-22.00000	-17.00000	15.00000	0.17546 14.755 -2.7971E-6 -0.058146 0.0
-21.00000	-17.00000	15.00000	0.18007 14.755 -3.0889E-6 -0.061478 0.0
-20.00000	-17.00000	15.00000	0.18463 14.755 -3.4145E-6 -0.065029 0.0
-19.00000	-17.00000	15.00000	0.18912 14.755 -3.7778E-6 -0.068809 0.0
-18.00000	-17.00000	15.00000	0.19351 14.755 -4.1831E-6 -0.072830 0.0
-17.00000	-17.00000	15.00000	0.19778 14.755 -4.6351E-6 -0.077108 0.0
-16.00000	-17.00000	15.00000	0.20188 14.755 -5.1387E-6 -0.081642 0.0
-15.00000	-17.00000	15.00000	0.20579 14.755 -5.6993E-6 -0.086455 0.0
-14.00000	-17.00000	15.00000	0.20948 14.755 -6.3224E-6 -0.091549 0.0
-13.00000	-17.00000	15.00000	0.21291 14.755 -7.0135E-6 -0.096932 0.0
-12.00000	-17.00000	15.00000	0.21605 14.755 -7.7778E-6 -0.102605 0.0
-11.00000	-17.00000	15.00000	0.21888 14.755 -8.6203E-6 -0.10857 0.0
-10.00000	-17.00000	15.00000	0.22137 14.755 -9.5450E-6 -0.11481 0.0
-9.00000	-17.00000	15.00000	0.22349 14.755 -10.555E-6 -0.12133 0.0
-8.00000	-17.00000	15.00000	0.22524 14.755 -11.651E-6 -0.12810 0.0
-7.00000	-17.00000	15.00000	0.22661 14.755 -12.832E-6 -0.13509 0.0
-6.00000	-17.00000	15.00000	0.22759 14.755 -14.094E-6 -0.14227 0.0
-5.00000	-17.00000	15.00000	0.22821 14.755 -15.430E-6 -0.14959 0.0
-4.00000	-17.00000	15.00000	0.22849 14.755 -16.829E-6 -0.15699 0.0
-3.00000	-17.00000	15.00000	0.22845 14.755 -18.276E-6 -0.16440 0.0
-2.00000	-17.00000	15.00000	0.22814 14.755 -19.752E-6 -0.17178 0.0
-1.00000	-17.00000	15.00000	0.22761 14.755 -21.236E-6 -0.17898 0.0
0.00000	-17.00000	15.00000	0.22690 14.755 -22.703E-6 -0.18597 0.0
1.00000	-17.00000	15.00000	0.22609 14.755 -24.127E-6 -0.19264 0.0
2.00000	-17.00000	15.00000	0.22522 14.755 -25.483E-6 -0.19890 0.0
3.00000	-17.00000	15.00000	0.22436 14.755 -26.744E-6 -0.20466 0.0
4.00000	-17.00000	15.00000	0.22355 14.755 -27.886E-6 -0.20983 0.0
5.00000	-17.00000	15.00000	0.22284 14.755 -28.889E-6 -0.21435 0.0
6.00000	-17.00000	15.00000	0.22227 14.755 -29.734E-6 -0.21814 0.0
7.00000	-17.00000	15.00000	0.22186 14.755 -30.406E-6 -0.22115 0.0
8.00000	-17.00000	15.00000	0.22164 14.755 -30.894E-6 -0.22334 0.0
9.00000	-17.00000	15.00000	0.22162 14.755 -31.190E-6 -0.22465 0.0
10.00000	-17.00000	15.00000	0.22181 14.755 -31.289E-6 -0.22509 0.0
11.00000	-17.00000	15.00000	0.22218 14.755 -31.190E-6 -0.22465 0.0
12.00000	-17.00000	15.00000	0.22275 14.755 -30.894E-6 -0.22333 0.0
13.00000	-17.00000	15.00000	0.22348 14.755 -30.406E-6 -0.22115 0.0
14.00000	-17.00000	15.00000	0.22437 14.755 -29.734E-6 -0.21814 0.0
15.00000	-17.00000	15.00000	0.22539 14.755 -28.889E-6 -0.21435 0.0
16.00000	-17.00000	15.00000	0.22653 14.755 -27.886E-6 -0.20983 0.0
17.00000	-17.00000	15.00000	0.22775 14.755 -26.744E-6 -0.20466 0.0
18.00000	-17.00000	15.00000	0.22895 14.755 -25.483E-6 -0.19890 0.0
19.00000	-17.00000	15.00000	0.23039 14.755 -24.127E-6 -0.19264 0.0
20.00000	-17.00000	15.00000	0.23176 14.755 -22.703E-6 -0.18597 0.0
21.00000	-17.00000	15.00000	0.23315 14.755 -21.236E-6 -0.17898 0.0
22.00000	-17.00000	15.00000	0.23454 14.755 -19.752E-6 -0.17176 0.0
23.00000	-17.00000	15.00000	0.23591 14.755 -18.276E-6 -0.16440 0.0
24.00000	-17.00000	15.00000	0.23726 14.755 -16.829E-6 -0.15699 0.0
25.00000	-17.00000	15.00000	0.23857 14.755 -15.430E-6 -0.14959 0.0
26.00000	-17.00000	15.00000	0.23983 14.755 -14.094E-6 -0.14227 0.0
27.00000	-17.00000	15.00000	0.24104 14.755 -12.832E-6 -0.13509 0.0
28.00000	-17.00000	15.00000	0.24217 14.755 -11.651E-6 -0.12810 0.0
29.00000	-17.00000	15.00000	0.24320 14.755 -10.555E-6 -0.12133 0.0
30.00000	-17.00000	15.00000	0.24413 14.755 -9.5450E-6 -0.11481 0.0
31.00000	-17.00000	15.00000	0.24491 14.755 -8.6203E-6 -0.10857 0.0
32.00000	-17.00000	15.00000	0.24553 14.755 -7.7778E-6 -0.10260 0.0
33.00000	-17.00000	15.00000	0.24595 14.755 -7.0135E-6 -0.096932 0.0
34.00000	-17.00000	15.00000	0.24614 14.755 -6.3224E-6 -0.091549 0.0
35.00000	-17.00000	15.00000	0.24606 14.755 -5.6993E-6 -0.086455 0.0
36.00000	-17.00000	15.00000	0.24568 14.755 -5.1387E-6 -0.081642 0.0
37.00000	-17.00000	15.00000	0.24498 14.755 -4.6351E-6 -0.077104 0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
38.00000	-17.00000	15.00000	0.24393	14.755	-4.1831E-6	-0.072830	0.0
39.00000	-17.00000	15.00000	0.24251	14.755	-3.7778E-6	-0.068809	0.0
40.00000	-17.00000	15.00000	0.24072	14.755	-3.4145E-6	-0.065029	0.0
41.00000	-17.00000	15.00000	0.23855	14.755	-3.0889E-6	-0.061478	0.0
42.00000	-17.00000	15.00000	0.23601	14.755	-2.7971E-6	-0.058143	0.0
43.00000	-17.00000	15.00000	0.23311	14.755	-2.5353E-6	-0.055013	0.0
44.00000	-17.00000	15.00000	0.22986	14.755	-2.3005E-6	-0.052074	0.0
45.00000	-17.00000	15.00000	0.22630	14.755	-2.0897E-6	-0.049316	0.0
46.00000	-17.00000	15.00000	0.22245	14.755	-1.9004E-6	-0.046727	0.0
47.00000	-17.00000	15.00000	0.21834	14.755	-1.7301E-6	-0.044297	0.0
48.00000	-17.00000	15.00000	0.21401	14.755	-1.5769E-6	-0.042015	0.0
49.00000	-17.00000	15.00000	0.20948	14.755	-1.4389E-6	-0.039873	0.0
50.00000	-17.00000	15.00000	0.20479	14.755	-1.3145E-6	-0.037859	0.0
51.00000	-17.00000	15.00000	0.19997	14.755	-1.2022E-6	-0.035968	0.0
52.00000	-17.00000	15.00000	0.19505	14.755	-1.1007E-6	-0.034189	0.0
53.00000	-17.00000	15.00000	0.19007	14.755	-1.0069E-6	-0.032517	0.0
54.00000	-17.00000	15.00000	0.18504	14.755	0.0	-0.030943	0.0
55.00000	-17.00000	15.00000	0.18000	14.755	0.0	-0.029461	0.0
-25.00000	-16.00000	15.00000	0.16500	14.755	-2.2532E-6	-0.051518	0.0
-24.00000	-16.00000	15.00000	0.16972	14.755	-2.4881E-6	-0.054489	0.0
-23.00000	-16.00000	15.00000	0.17445	14.755	-2.7509E-6	-0.057664	0.0
-22.00000	-16.00000	15.00000	0.17915	14.755	-3.0453E-6	-0.061057	0.0
-21.00000	-16.00000	15.00000	0.18382	14.755	-3.3753E-6	-0.064683	0.0
-20.00000	-16.00000	15.00000	0.18842	14.755	-3.7455E-6	-0.068558	0.0
-19.00000	-16.00000	15.00000	0.19291	14.755	-4.1608E-6	-0.072697	0.0
-18.00000	-16.00000	15.00000	0.19728	14.755	-4.6271E-6	-0.077118	0.0
-17.00000	-16.00000	15.00000	0.20148	14.755	-5.1504E-6	-0.081835	0.0
-16.00000	-16.00000	15.00000	0.20547	14.755	-5.7377E-6	-0.086864	0.0
-15.00000	-16.00000	15.00000	0.20922	14.755	-6.3961E-6	-0.092222	0.0
-14.00000	-16.00000	15.00000	0.21268	14.755	-7.1335E-6	-0.097920	0.0
-13.00000	-16.00000	15.00000	0.21583	14.755	-7.9578E-6	-0.103997	0.0
-12.00000	-16.00000	15.00000	0.21861	14.755	-8.8772E-6	-0.11038	0.0
-11.00000	-16.00000	15.00000	0.22099	14.755	-9.8993E-6	-0.11715	0.0
-10.00000	-16.00000	15.00000	0.22294	14.755	-11.031E-6	-0.12428	0.0
-9.00000	-16.00000	15.00000	0.22443	14.755	-12.278E-6	-0.13176	0.0
-8.00000	-16.00000	15.00000	0.22546	14.755	-13.644E-6	-0.13957	0.0
-7.00000	-16.00000	15.00000	0.22600	14.755	-15.129E-6	-0.14768	0.0
-6.00000	-16.00000	15.00000	0.22606	14.755	-16.730E-6	-0.15606	0.0
-5.00000	-16.00000	15.00000	0.22567	14.755	-18.439E-6	-0.16464	0.0
-4.00000	-16.00000	15.00000	0.22485	14.755	-20.242E-6	-0.17336	0.0
-3.00000	-16.00000	15.00000	0.22364	14.755	-22.120E-6	-0.18215	0.0
-2.00000	-16.00000	15.00000	0.22210	14.755	-24.048E-6	-0.19090	0.0
-1.00000	-16.00000	15.00000	0.22030	14.755	-25.996E-6	-0.19952	0.0
0.00000	-16.00000	15.00000	0.21831	14.755	-27.930E-6	-0.20790	0.0
1.00000	-16.00000	15.00000	0.21622	14.755	-29.814E-6	-0.21591	0.0
2.00000	-16.00000	15.00000	0.21410	14.755	-31.609E-6	-0.22344	0.0
3.00000	-16.00000	15.00000	0.21203	14.755	-33.281E-6	-0.23039	0.0
4.00000	-16.00000	15.00000	0.21009	14.755	-34.797E-6	-0.23664	0.0
5.00000	-16.00000	15.00000	0.20833	14.755	-36.126E-6	-0.24210	0.0
6.00000	-16.00000	15.00000	0.20681	14.755	-37.246E-6	-0.24668	0.0
7.00000	-16.00000	15.00000	0.20556	14.755	-38.135E-6	-0.25036	0.0
8.00000	-16.00000	15.00000	0.20461	14.755	-38.781E-6	-0.25296	0.0
9.00000	-16.00000	15.00000	0.20398	14.755	-39.172E-6	-0.25456	0.0
10.00000	-16.00000	15.00000	0.20367	14.755	-39.303E-6	-0.25509	0.0
11.00000	-16.00000	15.00000	0.20367	14.755	-39.172E-6	-0.25456	0.0
12.00000	-16.00000	15.00000	0.20397	14.755	-38.781E-6	-0.25296	0.0
13.00000	-16.00000	15.00000	0.20455	14.755	-38.135E-6	-0.25032	0.0
14.00000	-16.00000	15.00000	0.20539	14.755	-37.246E-6	-0.24668	0.0
15.00000	-16.00000	15.00000	0.20647	14.755	-36.126E-6	-0.24210	0.0
16.00000	-16.00000	15.00000	0.20774	14.755	-34.797E-6	-0.23664	0.0
17.00000	-16.00000	15.00000	0.20920	14.755	-33.281E-6	-0.23039	0.0
18.00000	-16.00000	15.00000	0.21081	14.755	-31.609E-6	-0.22344	0.0
19.00000	-16.00000	15.00000	0.21254	14.755	-29.814E-6	-0.21591	0.0
20.00000	-16.00000	15.00000	0.21438	14.755	-27.930E-6	-0.20790	0.0
21.00000	-16.00000	15.00000	0.21631	14.755	-25.996E-6	-0.19952	0.0
22.00000	-16.00000	15.00000	0.21830	14.755	-24.048E-6	-0.19090	0.0
23.00000	-16.00000	15.00000	0.22034	14.755	-22.120E-6	-0.18215	0.0
24.00000	-16.00000	15.00000	0.22243	14.755	-20.242E-6	-0.17336	0.0
25.00000	-16.00000	15.00000	0.22454	14.755	-18.439E-6	-0.16464	0.0
26.00000	-16.00000	15.00000	0.22666	14.755	-16.730E-6	-0.15606	0.0
27.00000	-16.00000	15.00000	0.22879	14.755	-15.129E-6	-0.14768	0.0
28.00000	-16.00000	15.00000	0.23089	14.755	-13.644E-6	-0.13957	0.0
29.00000	-16.00000	15.00000	0.23295	14.755	-12.278E-6	-0.13176	0.0
30.00000	-16.00000	15.00000	0.23495	14.755	-11.031E-6	-0.12428	0.0
31.00000	-16.00000	15.00000	0.23683	14.755	-9.8993E-6	-0.11715	0.0
32.00000	-16.00000	15.00000	0.23857	14.755	-8.8772E-6	-0.11037	0.0
33.00000	-16.00000	15.00000	0.24012	14.755	-7.9578E-6	-0.10397	0.0
34.00000	-16.00000	15.00000	0.24143	14.755	-7.1335E-6	-0.097920	0.0
35.00000	-16.00000	15.00000	0.24245	14.755	-6.3961E-6	-0.092222	0.0
36.00000	-16.00000	15.00000	0.24314	14.755	-5.7377E-6	-0.086864	0.0
37.00000	-16.00000	15.00000	0.24344	14.755	-5.1504E-6	-0.081835	0.0
38.00000	-16.00000	15.00000	0.24333	14.755	-4.6271E-6	-0.077118	0.0
39.00000	-16.00000	15.00000	0.24278	14.755	-4.1608E-6	-0.072697	0.0
40.00000	-16.00000	15.00000	0.24177	14.755	-3.7455E-6	-0.068558	0.0
41.00000	-16.00000	15.00000	0.24029	14.755	-3.3753E-6	-0.064683	0.0
42.00000	-16.00000	15.00000	0.23835	14.755	-3.0453E-6	-0.061057	0.0
43.00000	-16.00000	15.00000	0.23596	14.755	-2.7509E-6	-0.057664	0.0
44.00000	-16.00000	15.00000	0.23315	14.755	-2.4881E-6	-0.054489	0.0
45.00000	-16.00000	15.00000	0.22994	14.755	-2.2532E-6	-0.051518	0.0
46.00000	-16.00000	15.00000	0.22636	14.755	-2.0431E-6	-0.048737	0.0
47.00000	-16.00000	15.00000	0.22245	14.755	-1.8550E-6	-0.046130	0.0
48.00000	-16.00000	15.00000	0.21826	14.755	-1.6864E-6	-0.043695	0.0
49.00000	-16.00000	15.00000	0.21382	14.755	-1.5350E-6	-0.041410	0.0
50.00000	-16.00000	15.00000	0.20917	14.755	-1.3990E-6	-0.039268	0.0
51.00000	-16.00000	15.00000	0.20436	14.755	-1.2767E-6	-0.037260	0.0
52.00000	-16.00000	15.00000	0.19941	14.755	-1.1665E-6	-0.035376	0.0
53.00000	-16.00000	15.00000	0.19437	14.755	-1.0671E-6	-0.033607	0.0
54.00000	-16.00000	15.00000	0.18926	14.755	0.0	-0.031946	0.0
55.00000	-16.00000	15.00000	0.18412	14.755	0.0	-0.030386	0.0
-25.00000	-15.00000	15.00000	0.16840	14.755	-2.4279E-6	-0.053800	0.0
-24.00000	-15.00000	15.00000	0.17320	14.755	-2.6894E-6	-0.056990	0.0
-23.00000	-15.00000	15.00000	0.17800	14.755	-2.9833E-6	-0.060427	0.0
-22.00000	-15.00000	15.00000	0.18277	14.755	-3.3142E-6	-0.064103	0.0
-21.00000	-15.00000	15.00000	0.18747	14.755	-3.6871E-6	-0.068044	0.0
-20.00000	-15.00000	15.00000	0.19208	14.755	-4.1077E-6	-0.072270	0.0
-19.00000	-15.00000	15.00000	0.19655	14.755	-4.5826E-6	-0.076802	0.0
-18.00000	-15.00000	15.00000	0.20086	14.755	-5.1191E-6	-0.081661	0.0
-17.00000	-15.00000	15.00000	0.20494	14.755	-5.7254E-6	-0.086868	0.0
-16.00000	-15.00000	15.00000	0.20877	14.755	-6.4106E-6	-0.092445	0.0
-15.00000	-15.00000	15.00000	0.21229	14.755	-7.1849E-6	-0.098413	0.0
-14.00000	-15.00000	15.00000	0.21546	14.755	-8.0591E-6	-0.104767	0.0
-13.00000	-15.00000	15.00000	0.21822	14.755	-9.0448E-6	-0.11160	0.0
-12.00000	-15.00000	15.00000	0.22052	14.755	-10.154E-6	-0.11885	0.0
-11.00000	-15.00000	15.00000	0.22232	14.755	-11.399E-6	-0.12655	0.0
-10.00000	-15.00000	15.00000	0.22358	14.755	-12.791E-6	-0.13471	0.0
-9.00000	-15.00000	15.00000	0.22426	14.755	-14.340E-6	-0.14333	0.0
-8.00000	-15.00000	15.00000	0.22434	14.755	-16.054E-6	-0.15237	0.0
-7.00000	-15.00000	15.00000	0.22382	14.755	-17.937E-6	-0.16183	0.0
-6.00000	-15.00000	15.00000	0.22269	14.755	-19.986E-6	-0.17164	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
6.00000	-15.00000	15.00000	0.18529	14.755	-47.241E-6	-0.28066	0.0
7.00000	-15.00000	15.00000	0.18295	14.755	-48.430E-6	-0.28509	0.0
8.00000	-15.00000	15.00000	0.18106	14.755	-49.292E-6	-0.28831	0.0
9.00000	-15.00000	15.00000	0.17964	14.755	-49.814E-6	-0.29025	0.0
10.00000	-15.00000	15.00000	0.17869	14.755	-49.989E-6	-0.29090	0.0
11.00000	-15.00000	15.00000	0.17820	14.755	-49.814E-6	-0.29025	0.0
12.00000	-15.00000	15.00000	0.17816	14.755	-49.292E-6	-0.28831	0.0
13.00000	-15.00000	15.00000	0.17853	14.755	-48.430E-6	-0.28509	0.0
14.00000	-15.00000	15.00000	0.17930	14.755	-47.241E-6	-0.28066	0.0
15.00000	-15.00000	15.00000	0.18043	14.755	-45.741E-6	-0.27508	0.0
16.00000	-15.00000	15.00000	0.18188	14.755	-43.958E-6	-0.26843	0.0
17.00000	-15.00000	15.00000	0.18361	14.755	-41.922E-6	-0.26082	0.0
18.00000	-15.00000	15.00000	0.18560	14.755	-39.676E-6	-0.25238	0.0
19.00000	-15.00000	15.00000	0.18782	14.755	-37.265E-6	-0.24324	0.0
20.00000	-15.00000	15.00000	0.19023	14.755	-34.740E-6	-0.23354	0.0
21.00000	-15.00000	15.00000	0.19282	14.755	-32.155E-6	-0.22343	0.0
22.00000	-15.00000	15.00000	0.19556	14.755	-29.563E-6	-0.21307	0.0
23.00000	-15.00000	15.00000	0.19844	14.755	-27.012E-6	-0.20258	0.0
24.00000	-15.00000	15.00000	0.20144	14.755	-24.544E-6	-0.19211	0.0
25.00000	-15.00000	15.00000	0.20455	14.755	-22.194E-6	-0.18176	0.0
26.00000	-15.00000	15.00000	0.20776	14.755	-19.986E-6	-0.17164	0.0
27.00000	-15.00000	15.00000	0.21105	14.755	-17.937E-6	-0.16183	0.0
28.00000	-15.00000	15.00000	0.21439	14.755	-16.054E-6	-0.15237	0.0
29.00000	-15.00000	15.00000	0.21777	14.755	-14.340E-6	-0.14333	0.0
30.00000	-15.00000	15.00000	0.22113	14.755	-12.791E-6	-0.13471	0.0
31.00000	-15.00000	15.00000	0.22444	14.755	-11.399E-6	-0.12655	0.0
32.00000	-15.00000	15.00000	0.22764	14.755	-10.154E-6	-0.11885	0.0
33.00000	-15.00000	15.00000	0.23066	14.755	-9.0448E-6	-0.11160	0.0
34.00000	-15.00000	15.00000	0.23345	14.755	-8.0591E-6	-0.10479	0.0
35.00000	-15.00000	15.00000	0.23591	14.755	-7.1849E-6	-0.098413	0.0
36.00000	-15.00000	15.00000	0.23799	14.755	-6.4106E-6	-0.092445	0.0
37.00000	-15.00000	15.00000	0.23962	14.755	-5.7254E-6	-0.086868	0.0
38.00000	-15.00000	15.00000	0.24076	14.755	-5.1191E-6	-0.081661	0.0
39.00000	-15.00000	15.00000	0.24135	14.755	-4.5826E-6	-0.076802	0.0
40.00000	-15.00000	15.00000	0.24137	14.755	-4.1077E-6	-0.072270	0.0
41.00000	-15.00000	15.00000	0.24081	14.755	-3.6871E-6	-0.068041	0.0
42.00000	-15.00000	15.00000	0.23967	14.755	-3.3142E-6	-0.064013	0.0
43.00000	-15.00000	15.00000	0.23797	14.755	-2.9833E-6	-0.060427	0.0
44.00000	-15.00000	15.00000	0.23574	14.755	-2.6894E-6	-0.056999	0.0
45.00000	-15.00000	15.00000	0.23300	14.755	-2.4279E-6	-0.053800	0.0
46.00000	-15.00000	15.00000	0.22980	14.755	-2.1951E-6	-0.050814	0.0
47.00000	-15.00000	15.00000	0.22619	14.755	-1.9875E-6	-0.048026	0.0
48.00000	-15.00000	15.00000	0.22222	14.755	-1.8021E-6	-0.045422	0.0
49.00000	-15.00000	15.00000	0.21793	14.755	-1.6363E-6	-0.042987	0.0
50.00000	-15.00000	15.00000	0.21337	14.755	-1.4878E-6	-0.040711	0.0
51.00000	-15.00000	15.00000	0.20860	14.755	-1.3547E-6	-0.038591	0.0
52.00000	-15.00000	15.00000	0.20365	14.755	-1.2351E-6	-0.036586	0.0
53.00000	-15.00000	15.00000	0.19858	14.755	-1.1276E-6	-0.034718	0.0
54.00000	-15.00000	15.00000	0.19341	14.755	-1.0308E-6	-0.032967	0.0
25.00000	-14.00000	15.00000	0.21173	14.755	-2.6142E-6	-0.056159	0.0
-24.00000	-14.00000	15.00000	0.17662	14.755	-2.9049E-6	-0.059600	0.0
-23.00000	-14.00000	15.00000	0.18148	14.755	-3.2333E-6	-0.063300	0.0
-22.00000	-14.00000	15.00000	0.18629	14.755	-3.6048E-6	-0.067279	0.0
-21.00000	-14.00000	15.00000	0.19101	14.755	-4.0258E-6	-0.071560	0.0
-20.00000	-14.00000	15.00000	0.19560	14.755	-4.5035E-6	-0.076168	0.0
-19.00000	-14.00000	15.00000	0.20002	14.755	-5.0462E-6	-0.081129	0.0
-18.00000	-14.00000	15.00000	0.20422	14.755	-5.6633E-6	-0.086469	0.0
-17.00000	-14.00000	15.00000	0.20815	14.755	-6.3658E-6	-0.092217	0.0
-16.00000	-14.00000	15.00000	0.21175	14.755	-7.1658E-6	-0.098402	0.0
-15.00000	-14.00000	15.00000	0.21497	14.755	-8.0772E-6	-0.105050	0.0
-14.00000	-14.00000	15.00000	0.21774	14.755	-9.1151E-6	-0.112200	0.0
-13.00000	-14.00000	15.00000	0.22000	14.755	-10.296E-6	-0.119870	0.0
-12.00000	-14.00000	15.00000	0.22169	14.755	-11.639E-6	-0.128080	0.0
-11.00000	-14.00000	15.00000	0.22275	14.755	-13.161E-6	-0.136870	0.0
-10.00000	-14.00000	15.00000	0.22313	14.755	-14.881E-6	-0.146230	0.0
-9.00000	-14.00000	15.00000	0.22278	14.755	-16.817E-6	-0.156170	0.0
-8.00000	-14.00000	15.00000	0.22166	14.755	-18.983E-6	-0.166690	0.0
-7.00000	-14.00000	15.00000	0.21978	14.755	-21.389E-6	-0.177750	0.0
-6.00000	-14.00000	15.00000	0.21712	14.755	-24.039E-6	-0.189320	0.0
-5.00000	-14.00000	15.00000	0.21371	14.755	-26.924E-6	-0.201390	0.0
-4.00000	-14.00000	15.00000	0.20962	14.755	-30.026E-6	-0.213670	0.0
-3.00000	-14.00000	15.00000	0.20491	14.755	-33.314E-6	-0.226240	0.0
-2.00000	-14.00000	15.00000	0.19969	14.755	-36.739E-6	-0.238900	0.0
-1.00000	-14.00000	15.00000	0.19409	14.755	-40.242E-6	-0.251470	0.0
0.00000	-14.00000	15.00000	0.18825	14.755	-43.751E-6	-0.263770	0.0
1.00000	-14.00000	15.00000	0.18231	14.755	-47.189E-6	-0.275610	0.0
2.00000	-14.00000	15.00000	0.17644	14.755	-50.477E-6	-0.286800	0.0
3.00000	-14.00000	15.00000	0.17077	14.755	-53.540E-6	-0.297150	0.0
4.00000	-14.00000	15.00000	0.16544	14.755	-56.311E-6	-0.306470	0.0
5.00000	-14.00000	15.00000	0.16055	14.755	-58.735E-6	-0.314650	0.0
6.00000	-14.00000	15.00000	0.15621	14.755	-60.767E-6	-0.321480	0.0
7.00000	-14.00000	15.00000	0.15246	14.755	-62.376E-6	-0.326920	0.0
8.00000	-14.00000	15.00000	0.14937	14.755	-63.538E-6	-0.330860	0.0
9.00000	-14.00000	15.00000	0.14694	14.755	-64.241E-6	-0.333240	0.0
10.00000	-14.00000	15.00000	0.14517	14.755	-64.476E-6	-0.334000	0.0
11.00000	-14.00000	15.00000	0.14406	14.755	-64.241E-6	-0.333240	0.0
12.00000	-14.00000	15.00000	0.14358	14.755	-63.538E-6	-0.330860	0.0
13.00000	-14.00000	15.00000	0.14370	14.755	-62.376E-6	-0.326920	0.0
14.00000	-14.00000	15.00000	0.14437	14.755	-60.767E-6	-0.321480	0.0
15.00000	-14.00000	15.00000	0.14555	14.755	-58.735E-6	-0.314650	0.0
16.00000	-14.00000	15.00000	0.14719	14.755	-56.311E-6	-0.306470	0.0
17.00000	-14.00000	15.00000	0.14927	14.755	-53.540E-6	-0.297150	0.0
18.00000	-14.00000	15.00000	0.15172	14.755	-50.477E-6	-0.286800	0.0
19.00000	-14.00000	15.00000	0.15453	14.755	-47.189E-6	-0.275610	0.0
20.00000	-14.00000	15.00000	0.15764	14.755	-43.751E-6	-0.263770	0.0
21.00000	-14.00000	15.00000	0.16105	14.755	-40.242E-6	-0.251470	0.0
22.00000	-14.00000	15.00000	0.16471	14.755	-36.739E-6	-0.238900	0.0
23.00000	-14.00000	15.00000	0.16862	14.755	-33.314E-6	-0.226240	0.0
24.00000	-14.00000	15.00000	0.17276	14.755	-30.026E-6	-0.213670	0.0
25.00000	-14.00000	15.00000	0.17712	14.755	-26.924E-6	-0.201390	0.0
26.00000	-14.00000	15.00000	0.18168	14.755	-24.039E-6	-0.189320	0.0
27.00000	-14.00000	15.00000	0.18643	14.755	-21.389E-6	-0.177750	0.0
28.00000	-14.00000	15.00000	0.19134	14.755	-18.983E-6	-0.166690	0.0
29.00000	-14.00000	15.00000	0.19638	14.755	-16.817E-6	-0.156170	0.0
30.00000	-14.00000	15.00000	0.20151	14.755	-14.881E-6	-0.146230	0.0
31.00000	-14.00000	15.00000	0.20665	14.755	-13.161E-6	-0.136870	0.0
32.00000	-14.00000	15.00000	0.21174	14.755	-11.639E-6	-0.128080	0.0
33.00000	-14.00000	15					

Oasys

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.		Sheet No.		Rev.	
J15249					
Drg. Ref.					
Made by MP		Date		Checked	
Name	Location	Displacement	Stresses		
X	Z [Level]	Y	Calc Level	Vert Stress	Sum Princ
[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]
					Vert Strain
					[-]
55.00000	-14.00000	15.00000	0.19217	14.755	0.0
-25.00000	-13.00000	15.00000	0.17501	14.755	-2.8121E-6
-24.00000	-13.00000	15.00000	0.17996	14.755	-3.1349E-6
-23.00000	-13.00000	15.00000	0.18487	14.755	-3.5013E-6
-22.00000	-13.00000	15.00000	0.18970	14.755	-3.9180E-6
-21.00000	-13.00000	15.00000	0.19441	14.755	-4.3928E-6
-20.00000	-13.00000	15.00000	0.19896	14.755	-4.9347E-6
-19.00000	-13.00000	15.00000	0.20328	14.755	-5.5543E-6
-18.00000	-13.00000	15.00000	0.20793	14.755	-6.2639E-6
-17.00000	-13.00000	15.00000	0.21105	14.755	-7.0776E-6
-16.00000	-13.00000	15.00000	0.21435	14.755	-8.0118E-6
-15.00000	-13.00000	15.00000	0.21718	14.755	-9.0852E-6
-14.00000	-13.00000	15.00000	0.21946	14.755	-10.319E-6
-13.00000	-13.00000	15.00000	0.22109	14.755	-11.737E-6
-12.00000	-13.00000	15.00000	0.22202	14.755	-13.366E-6
-11.00000	-13.00000	15.00000	0.22215	14.755	-15.234E-6
-10.00000	-13.00000	15.00000	0.22142	14.755	-17.370E-6
-9.00000	-13.00000	15.00000	0.21977	14.755	-19.804E-6
-8.00000	-13.00000	15.00000	0.21715	14.755	-22.562E-6
-7.00000	-13.00000	15.00000	0.21354	14.755	-25.665E-6
-6.00000	-13.00000	15.00000	0.20893	14.755	-29.127E-6
-5.00000	-13.00000	15.00000	0.20337	14.755	-32.944E-6
-4.00000	-13.00000	15.00000	0.19691	14.755	-37.097E-6
-3.00000	-13.00000	15.00000	0.18965	14.755	-41.545E-6
-2.00000	-13.00000	15.00000	0.18175	14.755	-46.222E-6
-1.00000	-13.00000	15.00000	0.17337	14.755	-51.040E-6
0.00000	-13.00000	15.00000	0.16470	14.755	-55.891E-6
1.00000	-13.00000	15.00000	0.15594	14.755	-60.657E-6
2.00000	-13.00000	15.00000	0.14732	14.755	-65.220E-6
3.00000	-13.00000	15.00000	0.13901	14.755	-69.466E-6
4.00000	-13.00000	15.00000	0.13121	14.755	-73.298E-6
5.00000	-13.00000	15.00000	0.12406	14.755	-76.639E-6
6.00000	-13.00000	15.00000	0.11768	14.755	-79.429E-6
7.00000	-13.00000	15.00000	0.11215	14.755	-81.629E-6
8.00000	-13.00000	15.00000	0.10752	14.755	-83.213E-6
9.00000	-13.00000	15.00000	0.10382	14.755	-84.169E-6
10.00000	-13.00000	15.00000	0.10103	14.755	-84.488E-6
11.00000	-13.00000	15.00000	0.099133	14.755	-84.169E-6
12.00000	-13.00000	15.00000	0.098100	14.755	-83.213E-6
13.00000	-13.00000	15.00000	0.097879	14.755	-81.629E-6
14.00000	-13.00000	15.00000	0.098417	14.755	-79.429E-6
15.00000	-13.00000	15.00000	0.099659	14.755	-76.639E-6
16.00000	-13.00000	15.00000	0.101055	14.755	-73.298E-6
17.00000	-13.00000	15.00000	0.10403	14.755	-69.466E-6
18.00000	-13.00000	15.00000	0.10706	14.755	-65.220E-6
19.00000	-13.00000	15.00000	0.11058	14.755	-60.657E-6
20.00000	-13.00000	15.00000	0.11455	14.755	-55.891E-6
21.00000	-13.00000	15.00000	0.11895	14.755	-51.040E-6
22.00000	-13.00000	15.00000	0.12375	14.755	-46.222E-6
23.00000	-13.00000	15.00000	0.12892	14.755	-41.545E-6
24.00000	-13.00000	15.00000	0.13446	14.755	-37.097E-6
25.00000	-13.00000	15.00000	0.14036	14.755	-32.944E-6
26.00000	-13.00000	15.00000	0.14661	14.755	-29.127E-6
27.00000	-13.00000	15.00000	0.15319	14.755	-25.665E-6
28.00000	-13.00000	15.00000	0.16007	14.755	-22.562E-6
29.00000	-13.00000	15.00000	0.16723	14.755	-19.804E-6
30.00000	-13.00000	15.00000	0.17458	14.755	-17.370E-6
31.00000	-13.00000	15.00000	0.18209	14.755	-15.234E-6
32.00000	-13.00000	15.00000	0.18961	14.755	-13.366E-6
33.00000	-13.00000	15.00000	0.19703	14.755	-11.737E-6
34.00000	-13.00000	15.00000	0.20422	14.755	-10.319E-6
35.00000	-13.00000	15.00000	0.21102	14.755	-9.0852E-6
36.00000	-13.00000	15.00000	0.21731	14.755	-8.0118E-6
37.00000	-13.00000	15.00000	0.22294	14.755	-7.0776E-6
38.00000	-13.00000	15.00000	0.22782	14.755	-6.2639E-6
39.00000	-13.00000	15.00000	0.23184	14.755	-5.5543E-6
40.00000	-13.00000	15.00000	0.23496	14.755	-4.9347E-6
41.00000	-13.00000	15.00000	0.23715	14.755	-4.3928E-6
42.00000	-13.00000	15.00000	0.23842	14.755	-3.9180E-6
43.00000	-13.00000	15.00000	0.23878	14.755	-3.5013E-6
44.00000	-13.00000	15.00000	0.23828	14.755	-3.1349E-6
45.00000	-12.00000	15.00000	0.23698	14.755	-2.8121E-6
46.00000	-13.00000	15.00000	0.23495	14.755	-2.5272E-6
47.00000	-13.00000	15.00000	0.23226	14.755	-2.2753E-6
48.00000	-13.00000	15.00000	0.22900	14.755	-2.0521E-6
49.00000	-13.00000	15.00000	0.22523	14.755	-1.8540E-6
50.00000	-12.00000	15.00000	0.22105	14.755	-1.6779E-6
51.00000	-13.00000	15.00000	0.21651	14.755	-1.5209E-6
52.00000	-13.00000	15.00000	0.21168	14.755	-1.3809E-6
53.00000	-13.00000	15.00000	0.20663	14.755	-1.2556E-6
54.00000	-13.00000	15.00000	0.20141	14.755	-1.1435E-6
55.00000	-12.00000	15.00000	0.19608	14.755	-1.0429E-6
-25.00000	-12.00000	15.00000	0.17821	14.755	-3.0218E-6
-24.00000	-12.00000	15.00000	0.18321	14.755	-3.3796E-6
-23.00000	-12.00000	15.00000	0.18816	14.755	-3.7877E-6
-22.00000	-12.00000	15.00000	0.19299	14.755	-4.2543E-6
-21.00000	-12.00000	15.00000	0.19766	14.755	-4.7890E-6
-20.00000	-12.00000	15.00000	0.20213	14.755	-5.4030E-6
-19.00000	-12.00000	15.00000	0.20632	14.755	-6.1097E-6
-18.00000	-12.00000	15.00000	0.21018	14.755	-6.9248E-6
-17.00000	-12.00000	15.00000	0.21361	14.755	-7.8667E-6
-16.00000	-12.00000	15.00000	0.21655	14.755	-8.9573E-6
-15.00000	-12.00000	15.00000	0.21889	14.755	-10.222E-6
-14.00000	-12.00000	15.00000	0.22055	14.755	-11.690E-6
-13.00000	-12.00000	15.00000	0.22142	14.755	-13.395E-6
-12.00000	-12.00000	15.00000	0.22140	14.755	-15.376E-6
-11.00000	-12.00000	15.00000	0.22039	14.755	-17.675E-6
-10.00000	-12.00000	15.00000	0.21829	14.755	-20.340E-6
-9.00000	-12.00000	15.00000	0.21502	14.755	-23.418E-6
-8.00000	-12.00000	15.00000	0.21052	14.755	-26.956E-6
-7.00000	-12.00000	15.00000	0.20474	14.755	-30.998E-6
-6.00000	-12.00000	15.00000	0.19767	14.755	-35.573E-6
-5.00000	-12.00000	15.00000	0.18935	14.755	-40.693E-6
-4.00000	-12.00000	15.00000	0.17987	14.755	-46.342E-6
-3.00000	-12.00000	15.00000	0.16935	14.755	-52.468E-6
-2.00000	-12.00000	15.00000	0.15799	14.755	-58.979E-6
-1.00000	-12.00000	15.00000	0.14600	14.755	-65.742E-6
0.00000	-12.00000	15.00000	0.13366	14.755	-72.591E-6
1.00000	-12.00000	15.00000	0.12125	14.755	-79.341E-6
2.00000	-12.00000	15.00000	0.10906	14.755	-85.802E-6
3.00000	-12.00000	15.00000	0.097351	14.755	-91.802E-6
4.00000	-12.00000	15.00000	0.086374	14.755	-97.194E-6
5.00000	-12.00000	15.00000	0.076323	14.755	-101.87E-6
6.00000	-12.00000	15.00000	0.067348	14.755	-105.75E-6
7.00000	-12.00000	15.00000	0.059550	14.755	-108.80E-6
8.00000	-12.00000	15.00000	0.052986	14.755	-110.98E-6
9.00000	-12.00000	15.00000	0.047674	14.755	-112.29E-6
10.00000	-12.00000	15.00000	0.043602	14.755	-112.73E-6
11.00000	-12.00000	15.00000	0.040732	14.755	-112.29E-6
12.00000	-12.00000	15.00000	0.039011	14.755	-110.98E-6
13.00000	-12.00000	15.00000	0.038374	14.755	-108.80E-6
14.00000	-12.00000	15.00000	0.038750	14.755	-105.75E-6
15.00000	-12.00000	15.00000	0.040065	14.755	-101.87E-6
16.00000	-12.00000	15.00000	0.042249	14.755	-97.194E-6
17.00000	-12.00000	15.00000	0.045232	14.755	-91.802E-6
18.00000	-12.00000	15.00000	0.048947	14.755	-85.802E-6
19.00000	-12.00000	15.00000	0.053341	14.755	-79.341E-6
20.00000	-12.00000	15.00000	0.058365	14.755	-72.591E-6
21.00000	-12.00000	15.00000	0.063979	14.755	-65.742E-6
22.00000	-12.00000	15.00000	0.070156	14.755	-58.979E-6



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
23.00000	-12.00000	15.00000	0.076879	14.755	-52.468E-6	-0.28620	0.0
24.00000	-12.00000	15.00000	0.084140	14.755	-46.342E-6	-0.26763	0.0
25.00000	-12.00000	15.00000	0.091935	14.755	-40.693E-6	-0.24965	0.0
26.00000	-12.00000	15.00000	0.10026	14.755	-35.573E-6	-0.23243	0.0
27.00000	-12.00000	15.00000	0.10912	14.755	-30.998E-6	-0.21610	0.0
28.00000	-12.00000	15.00000	0.11848	14.755	-26.956E-6	-0.20074	0.0
29.00000	-12.00000	15.00000	0.12830	14.755	-23.418E-6	-0.18636	0.0
30.00000	-12.00000	15.00000	0.13852	14.755	-20.340E-6	-0.17298	0.0
31.00000	-12.00000	15.00000	0.14902	14.755	-17.675E-6	-0.16057	0.0
32.00000	-12.00000	15.00000	0.15967	14.755	-15.376E-6	-0.14909	0.0
33.00000	-12.00000	15.00000	0.17031	14.755	-13.395E-6	-0.13851	0.0
34.00000	-12.00000	15.00000	0.18073	14.755	-11.690E-6	-0.12875	0.0
35.00000	-12.00000	15.00000	0.19073	14.755	-10.222E-6	-0.11977	0.0
36.00000	-12.00000	15.00000	0.20011	14.755	-8.9573E-6	-0.11150	0.0
37.00000	-12.00000	15.00000	0.20869	14.755	-7.8667E-6	-0.10389	0.0
38.00000	-12.00000	15.00000	0.21630	14.755	-6.9248E-6	-0.09696	0.0
39.00000	-12.00000	15.00000	0.22283	14.755	-6.1097E-6	-0.090454	0.0
40.00000	-12.00000	15.00000	0.22820	14.755	-5.4030E-6	-0.084522	0.0
41.00000	-12.00000	15.00000	0.23238	14.755	-4.7890E-6	-0.079056	0.0
42.00000	-12.00000	15.00000	0.23536	14.755	-4.2543E-6	-0.074015	0.0
43.00000	-12.00000	15.00000	0.23720	14.755	-3.7877E-6	-0.069364	0.0
44.00000	-12.00000	15.00000	0.23794	14.755	-3.3796E-6	-0.065067	0.0
45.00000	-12.00000	15.00000	0.23766	14.755	-3.0218E-6	-0.061096	0.0
46.00000	-12.00000	15.00000	0.23647	14.755	-2.7074E-6	-0.057421	0.0
47.00000	-12.00000	15.00000	0.23445	14.755	-2.4306E-6	-0.054018	0.0
48.00000	-12.00000	15.00000	0.23171	14.755	-2.1863E-6	-0.050861	0.0
49.00000	-12.00000	15.00000	0.22834	14.755	-1.9703E-6	-0.047936	0.0
50.00000	-12.00000	15.00000	0.22445	14.755	-1.7789E-6	-0.045218	0.0
51.00000	-12.00000	15.00000	0.22011	14.755	-1.6089E-6	-0.042691	0.0
52.00000	-12.00000	15.00000	0.21541	14.755	-1.4577E-6	-0.040339	0.0
53.00000	-12.00000	15.00000	0.21043	14.755	-1.3229E-6	-0.038149	0.0
54.00000	-12.00000	15.00000	0.20523	14.755	-1.2025E-6	-0.036108	0.0
55.00000	-12.00000	15.00000	0.19987	14.755	-1.0947E-6	-0.034203	0.0
-25.00000	-11.00000	15.00000	0.18132	14.755	-3.2430E-6	-0.063664	0.0
-24.00000	-11.00000	15.00000	0.18637	14.755	-3.6389E-6	-0.067923	0.0
-23.00000	-11.00000	15.00000	0.19132	14.755	-4.0926E-6	-0.072542	0.0
-22.00000	-11.00000	15.00000	0.19614	14.755	-4.6142E-6	-0.077566	0.0
-21.00000	-11.00000	15.00000	0.20075	14.755	-5.2152E-6	-0.083027	0.0
-20.00000	-11.00000	15.00000	0.20510	14.755	-5.9097E-6	-0.088972	0.0
-19.00000	-11.00000	15.00000	0.20912	14.755	-6.7145E-6	-0.095451	0.0
-18.00000	-11.00000	15.00000	0.21272	14.755	-7.6495E-6	-0.10252	0.0
-17.00000	-11.00000	15.00000	0.21581	14.755	-8.7387E-6	-0.11023	0.0
-16.00000	-11.00000	15.00000	0.21829	14.755	-10.011E-6	-0.11866	0.0
-15.00000	-11.00000	15.00000	0.22005	14.755	-11.500E-6	-0.12787	0.0
-14.00000	-11.00000	15.00000	0.22095	14.755	-13.246E-6	-0.13795	0.0
-13.00000	-11.00000	15.00000	0.22089	14.755	-15.298E-6	-0.14899	0.0
-12.00000	-11.00000	15.00000	0.21972	14.755	-17.712E-6	-0.16100	0.0
-11.00000	-11.00000	15.00000	0.21732	14.755	-20.551E-6	-0.17414	0.0
-10.00000	-11.00000	15.00000	0.21355	14.755	-23.888E-6	-0.18848	0.0
-9.00000	-11.00000	15.00000	0.20829	14.755	-27.804E-6	-0.20407	0.0
-8.00000	-11.00000	15.00000	0.20145	14.755	-32.379E-6	-0.22097	0.0
-7.00000	-11.00000	15.00000	0.19297	14.755	-37.695E-6	-0.23922	0.0
-6.00000	-11.00000	15.00000	0.18281	14.755	-43.818E-6	-0.25880	0.0
-5.00000	-11.00000	15.00000	0.17101	14.755	-50.791E-6	-0.27964	0.0
-4.00000	-11.00000	15.00000	0.15768	14.755	-58.612E-6	-0.30162	0.0
-3.00000	-11.00000	15.00000	0.14296	14.755	-67.224E-6	-0.32452	0.0
-2.00000	-11.00000	15.00000	0.12712	14.755	-76.495E-6	-0.34806	0.0
-1.00000	-11.00000	15.00000	0.11047	14.755	-86.223E-6	-0.37186	0.0
0.00000	-11.00000	15.00000	0.093365	14.755	-96.138E-6	-0.39547	1.0193E-6
1.00000	-11.00000	15.00000	0.076204	14.755	-105.94E-6	-0.41843	1.0784E-6
2.00000	-11.00000	15.00000	0.059387	14.755	-115.31E-6	-0.44024	1.1346E-6
3.00000	-11.00000	15.00000	0.043284	14.755	-123.97E-6	-0.46045	1.1866E-6
4.00000	-11.00000	15.00000	0.028221	14.755	-131.71E-6	-0.47867	1.2335E-6
5.00000	-11.00000	15.00000	0.014457	14.755	-138.37E-6	-0.49455	1.2744E-6
6.00000	-11.00000	15.00000	0.0021843	14.755	-143.85E-6	-0.50783	1.3086E-6
7.00000	-11.00000	15.00000	-0.0084770	14.755	-148.11E-6	-0.51833	1.3352E-6
8.00000	-11.00000	15.00000	-0.017467	14.755	-151.15E-6	-0.52590	1.3552E-6
9.00000	-11.00000	15.00000	-0.024777	14.755	-152.97E-6	-0.53048	1.3669E-6
10.00000	-11.00000	15.00000	-0.030438	14.755	-153.57E-6	-0.53201	1.3709E-6
11.00000	-11.00000	15.00000	-0.034512	14.755	-152.97E-6	-0.53048	1.3669E-6
12.00000	-11.00000	15.00000	-0.037076	14.755	-151.15E-6	-0.52590	1.3552E-6
13.00000	-11.00000	15.00000	-0.038222	14.755	-148.11E-6	-0.51833	1.3352E-6
14.00000	-11.00000	15.00000	-0.038043	14.755	-143.85E-6	-0.50783	1.3086E-6
15.00000	-11.00000	15.00000	-0.036636	14.755	-138.37E-6	-0.49455	1.2744E-6
16.00000	-11.00000	15.00000	-0.034092	14.755	-131.71E-6	-0.47867	1.2335E-6
17.00000	-11.00000	15.00000	-0.030500	14.755	-123.97E-6	-0.46045	1.1866E-6
18.00000	-11.00000	15.00000	-0.025939	14.755	-115.31E-6	-0.44024	1.1346E-6
19.00000	-11.00000	15.00000	-0.020481	14.755	-105.94E-6	-0.41843	1.0784E-6
20.00000	-11.00000	15.00000	-0.014183	14.755	-96.138E-6	-0.39547	1.0193E-6
21.00000	-11.00000	15.00000	-0.0070910	14.755	-86.223E-6	-0.37186	0.0
22.00000	-11.00000	15.00000	-0.000000	14.755	-76.495E-6	-0.34806	0.0
23.00000	-11.00000	15.00000	0.0093711	14.755	-67.224E-6	-0.32452	0.0
24.00000	-11.00000	15.00000	0.018728	14.755	-58.612E-6	-0.30162	0.0
25.00000	-11.00000	15.00000	0.028845	14.755	-50.791E-6	-0.27964	0.0
26.00000	-11.00000	15.00000	0.039737	14.755	-43.818E-6	-0.25880	0.0
27.00000	-11.00000	15.00000	0.051411	14.755	-37.695E-6	-0.23922	0.0
28.00000	-11.00000	15.00000	0.063857	14.755	-32.379E-6	-0.22097	0.0
29.00000	-11.00000	15.00000	0.077038	14.755	-27.804E-6	-0.20407	0.0
30.00000	-11.00000	15.00000	0.090871	14.755	-23.888E-6	-0.18848	0.0
31.00000	-11.00000	15.00000	0.10523	14.755	-20.551E-6	-0.17414	0.0
32.00000	-11.00000	15.00000	0.11992	14.755	-17.712E-6	-0.16100	0.0
33.00000	-11.00000	15.00000	0.13472	14.755	-15.298E-6	-0.14899	0.0
34.00000	-11.00000	15.00000	0.14935	14.755	-13.246E-6	-0.13795	0.0
35.00000	-11.00000	15.00000	0.16351	14.755	-11.500E-6	-0.12787	0.0
36.00000	-11.00000	15.00000	0.17693	14.755	-10.011E-6	-0.11866	0.0
37.00000	-11.00000	15.00000	0.18932	14.755	-9.7387E-6	-0.11023	0.0
38.00000	-11.00000	15.00000	0.20047	14.755	-7.6495E-6	-0.10252	0.0
39.00000	-11.00000	15.00000	0.21023	14.755	-6.7145E-6	-0.095451	0.0
40.00000	-11.00000	15.00000	0.21847	14.755	-5.9097E-6	-0.088972	0.0
41.00000	-11.00000	15.00000	0.22517	14.755	-5.2152E-6	-0.083027	0.0
42.00000	-11.00000	15.00000	0.23034	14.755	-4.6142E-6	-0.077566	0.0
43.00000	-11.00000	15.00000	0.23402	14.755	-4.0926E-6	-0.072542	0.0
44.00000	-11.00000	15.00000	0.23631	14.755	-3.6389E-6	-0.067923	0.0
45.00000	-11.00000	15.00000	0.23732	14.755	-3.2430E-6	-0.063664	0.0
46.00000	-11.00000	15.00000	0.23717	14.755	-2.8968E-6	-0.059735	0.0
47.00000	-11.00000	15.00000	0.23598	14.755	-2.5932E-6	-0.056108	0.0
48.00000	-11.00000	15.00000	0.23390	14.755	-2.3264E-6	-0.052751	0.0
49.00000	-11.00000	15.00000	0.23103	14.755	-2.0913E-6	-0.049646	0.0
50.00000	-11.00000	15.00000	0.22751	14.755	-1.8837E-6	-0.046768	0.0
51.00000	-11.00000	15.00000	0.22344	14.755	-1.6999E-6	-0.044099	0.0
52.00000	-11.00000	15.00000	0.21893	14.755	-1.5369E-6	-0.041629	0.0
53.00000	-11.00000	15.00000	0.21405	14.755	-1.3920E-6	-0.039317	0.0
54.00000	-11.00000	15.00000	0.20890	14.755	-1.2630E-6	-0.037173	0.0
55.00000	-11.00000	15.00000	0.20355	14.755	-1.1478E-6	-0.035176	0.0
-25.00000	-10.00000	15.00000	0.18434	14.755	-3.4756E-6	-0.066291	0.0
-24.00000	-10.00000	15.00000	0.18941	14.755	-3.9126E-6	-0.070852	0.0
-23.00000	-10.00000	15.00000	0.19436	14.755	-4.4160E-6	-0.075818	0.0
-22.00000	-10.00000	15.00000	0.19913	14.755	-4.9976E-6		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-9.00000	-10.00000	15.00000	0.19933	14.755	-33.138E-6	-0.22379
	-8.00000	-10.00000	15.00000	0.18963	14.755	-39.100E-6	-0.24374
	-7.00000	-10.00000	15.00000	0.17779	14.755	-46.164E-6	-0.26551
	-6.00000	-10.00000	15.00000	0.16377	14.755	-54.468E-6	-0.28914
	-5.00000	-10.00000	15.00000	0.14759	14.755	-64.122E-6	-0.31458
	-4.00000	-10.00000	15.00000	0.12934	14.755	-75.173E-6	-0.34171
	-3.00000	-10.00000	15.00000	0.10924	14.755	-87.568E-6	-0.37029
	-2.00000	-10.00000	15.00000	0.087621	14.755	-101.13E-6	-0.39993
	-1.00000	-10.00000	15.00000	0.064900	14.755	-115.53E-6	-0.43013
	0.00000	-10.00000	15.00000	0.041587	14.755	-130.32E-6	-0.46028
	1.00000	-10.00000	15.00000	0.018236	14.755	-144.98E-6	-0.48968
	2.00000	-10.00000	15.00000	-0.0045962	14.755	-158.96E-6	-0.51765
	3.00000	-10.00000	15.00000	-0.026394	14.755	-171.80E-6	-0.54355
	4.00000	-10.00000	15.00000	-0.046717	14.755	-183.16E-6	-0.56683
	5.00000	-10.00000	15.00000	-0.065224	14.755	-192.82E-6	-0.58706
	6.00000	-10.00000	15.00000	-0.081676	14.755	-200.68E-6	-0.60391
	7.00000	-10.00000	15.00000	-0.095935	14.755	-206.73E-6	-0.61719
	8.00000	-10.00000	15.00000	-0.10795	14.755	-211.00E-6	-0.62674
	9.00000	-10.00000	15.00000	-0.11773	14.755	-213.54E-6	-0.63250
	10.00000	-10.00000	15.00000	-0.12535	14.755	-214.38E-6	-0.63442
	11.00000	-10.00000	15.00000	-0.13089	14.755	-213.54E-6	-0.63250
	12.00000	-10.00000	15.00000	-0.13447	14.755	-211.00E-6	-0.62674
	13.00000	-10.00000	15.00000	-0.13623	14.755	-206.73E-6	-0.61719
	14.00000	-10.00000	15.00000	-0.13628	14.755	-200.68E-6	-0.60391
	15.00000	-10.00000	15.00000	-0.13475	14.755	-192.82E-6	-0.58706
	16.00000	-10.00000	15.00000	-0.131176	14.755	-183.16E-6	-0.56683
	17.00000	-10.00000	15.00000	-0.12742	14.755	-171.80E-6	-0.54355
	18.00000	-10.00000	15.00000	-0.12183	14.755	-158.96E-6	-0.51765
	19.00000	-10.00000	15.00000	-0.11508	14.755	-144.98E-6	-0.48968
	20.00000	-10.00000	15.00000	-0.10723	14.755	-130.32E-6	-0.46028
	21.00000	-10.00000	15.00000	-0.098347	14.755	-115.53E-6	-0.43013
	22.00000	-10.00000	15.00000	-0.088458	14.755	-101.13E-6	-0.39993
	23.00000	-10.00000	15.00000	-0.077571	14.755	-87.568E-6	-0.37029
	24.00000	-10.00000	15.00000	-0.065672	14.755	-75.173E-6	-0.34171
	25.00000	-10.00000	15.00000	-0.052729	14.755	-64.122E-6	-0.31458
	26.00000	-10.00000	15.00000	-0.038701	14.755	-54.468E-6	-0.28914
	27.00000	-10.00000	15.00000	-0.023550	14.755	-46.164E-6	-0.26551
	28.00000	-10.00000	15.00000	-0.0072634	14.755	-39.100E-6	-0.24374
	29.00000	-10.00000	15.00000	0.010135	14.755	-33.138E-6	-0.22379
	30.00000	-10.00000	15.00000	0.028560	14.755	-28.131E-6	-0.20557
	31.00000	-10.00000	15.00000	0.047850	14.755	-23.935E-6	-0.18899
	32.00000	-10.00000	15.00000	0.067763	14.755	-20.422E-6	-0.17391
	33.00000	-10.00000	15.00000	0.087973	14.755	-17.479E-6	-0.16022
	34.00000	-10.00000	15.00000	0.10809	14.755	-15.009E-6	-0.14779
	35.00000	-10.00000	15.00000	0.12770	14.755	-12.932E-6	-0.13650
	36.00000	-10.00000	15.00000	0.14637	14.755	-11.180E-6	-0.12621
	37.00000	-10.00000	15.00000	0.16374	14.755	-9.6983E-6	-0.11690
	38.00000	-10.00000	15.00000	0.17947	14.755	-8.4409E-6	-0.10841
	39.00000	-10.00000	15.00000	0.19336	14.755	-7.3703E-6	-0.10066
	40.00000	-10.00000	15.00000	0.20527	14.755	-6.4557E-6	-0.093596
	41.00000	-10.00000	15.00000	0.21516	14.755	-5.6718E-6	-0.087135
	42.00000	-10.00000	15.00000	0.22305	14.755	-4.9976E-6	-0.081230
	43.00000	-10.00000	15.00000	0.22904	14.755	-4.4160E-6	-0.075818
	44.00000	-10.00000	15.00000	0.23324	14.755	-3.9126E-6	-0.070852
	45.00000	-10.00000	15.00000	0.23583	14.755	-3.4756E-6	-0.066291
	46.00000	-10.00000	15.00000	0.23695	14.755	-3.0951E-6	-0.062095
	47.00000	-10.00000	15.00000	0.23679	14.755	-2.7629E-6	-0.058231
	48.00000	-10.00000	15.00000	0.23550	14.755	-2.4720E-6	-0.054668
	49.00000	-10.00000	15.00000	0.23326	14.755	-2.2167E-6	-0.051378
	50.00000	-10.00000	15.00000	0.23021	14.755	-1.9920E-6	-0.048336
	51.00000	-10.00000	15.00000	0.22648	14.755	-1.7937E-6	-0.045525
	52.00000	-10.00000	15.00000	0.22220	14.755	-1.6183E-6	-0.042911
	53.00000	-10.00000	15.00000	0.21748	14.755	-1.4629E-6	-0.040490
	54.00000	-10.00000	15.00000	0.21241	14.755	-1.3249E-6	-0.038242
	55.00000	-10.00000	15.00000	0.20709	14.755	-1.2019E-6	-0.036152
	-25.00000	-9.00000	15.00000	0.18725	14.755	-3.7189E-6	-0.068965
	-24.00000	-9.00000	15.00000	0.19234	14.755	-4.2001E-6	-0.073845
	-23.00000	-9.00000	15.00000	0.19726	14.755	-4.7572E-6	-0.079171
	-22.00000	-9.00000	15.00000	0.20197	14.755	-5.4042E-6	-0.084997
	-21.00000	-9.00000	15.00000	0.20637	14.755	-6.1586E-6	-0.091380
	-20.00000	-9.00000	15.00000	0.21039	14.755	-7.0422E-6	-0.098399
	-19.00000	-9.00000	15.00000	0.21392	14.755	-8.0781E-6	-0.10608
	-18.00000	-9.00000	15.00000	0.21684	14.755	-9.3010E-6	-0.11455
	-17.00000	-9.00000	15.00000	0.21902	14.755	-10.749E-6	-0.12390
	-16.00000	-9.00000	15.00000	0.22030	14.755	-12.472E-6	-0.13422
	-15.00000	-9.00000	15.00000	0.22052	14.755	-14.529E-6	-0.14564
	-14.00000	-9.00000	15.00000	0.21949	14.755	-16.996E-6	-0.15829
	-13.00000	-9.00000	15.00000	0.21700	14.755	-19.966E-6	-0.17231
	-12.00000	-9.00000	15.00000	0.21283	14.755	-23.557E-6	-0.18789
	-11.00000	-9.00000	15.00000	0.20675	14.755	-27.909E-6	-0.20518
	-10.00000	-9.00000	15.00000	0.19852	14.755	-33.199E-6	-0.22440
	-9.00000	-9.00000	15.00000	0.18792	14.755	-39.633E-6	-0.24573
	-8.00000	-9.00000	15.00000	0.17472	14.755	-47.457E-6	-0.26937
	-7.00000	-9.00000	15.00000	0.15876	14.755	-56.939E-6	-0.29548
	-6.00000	-9.00000	15.00000	0.13993	14.755	-68.360E-6	-0.32418
	-5.00000	-9.00000	15.00000	0.11822	14.755	-81.973E-6	-0.35552
	-4.00000	-9.00000	15.00000	0.093724	14.755	-97.946E-6	-0.38938
	-3.00000	-9.00000	15.00000	0.066706	14.755	-116.29E-6	-0.42551
	-2.00000	-9.00000	15.00000	0.037586	14.755	-136.77E-6	-0.46342
	-1.00000	-9.00000	15.00000	0.0069478	14.755	-158.85E-6	-0.50241
	0.00000	-9.00000	15.00000	-0.024498	14.755	-181.75E-6	-0.54158
	1.00000	-9.00000	15.00000	-0.055962	14.755	-204.49E-6	-0.57992
	2.00000	-9.00000	15.00000	-0.086654	14.755	-226.08E-6	-0.61641
	3.00000	-9.00000	15.00000	-0.11585	14.755	-245.71E-6	-0.65011
	4.00000	-9.00000	15.00000	-0.14296	14.755	-262.82E-6	-0.68027
	5.00000	-9.00000	15.00000	-0.16752	14.755	-277.14E-6	-0.70633
	6.00000	-9.00000	15.00000	-0.18925	14.755	-288.60E-6	-0.72792
	7.00000	-9.00000	15.00000	-0.20801	14.755	-297.29E-6	-0.74483
	8.00000	-9.00000	15.00000	-0.22377	14.755	-303.34E-6	-0.75695
	9.00000	-9.00000	15.00000	-0.23659	14.755	-306.91E-6	-0.76423
	10.00000	-9.00000	15.00000	-0.24658	14.755	-308.09E-6	-0.76668
	11.00000	-9.00000	15.00000	-0.25390	14.755	-306.91E-6	-0.76423
	12.00000	-9.00000	15.00000	-0.25870	14.755	-303.34E-6	-0.75695
	13.00000	-9.00000	15.00000	-0.26118	14.755	-297.29E-6	-0.74483
	14.00000	-9.00000	15.00000	-0.26149	14.755	-288.60E-6	-0.72792
	15.00000	-9.00000	15.00000	-0.25990	14.755	-277.14E-6	-0.70633
	16.00000	-9.00000	15.00000	-0.25625	14.755	-262.82E-6	-0.68027
	17.00000	-9.00000	15.00000	-0.25099	14.755	-245.71E-6	-0.65011
	18.00000	-9.00000	15.00000	-0.24414	14.755	-226.08E-6	-0.61641
	19.00000	-9.00000	15.00000	-0.23580	14.755	-204.49E-6	-0.57992
	20.00000	-9.00000	15.00000	-0.22608	14.755	-181.75E-6	-0.54158
	21.00000	-9.00000	15.00000	-0.21503	14.755	-158.85E-6	-0.50241
	22.00000	-9.00000	15.00000	-0.20269	14.755	-136.77E-6	-0.46342
	23.00000	-9.00000	15.00000	-0.18905	14.755	-116.29E-6	-0.42551
	24.00000	-9.00000	15.00000	-0.17409	14.755	-97.946E-6	-0.38938
	25.00000	-9.00000	15.00000	-0.15772	14.755	-81.973E-6	-0.35552
	26.00000	-9.00000	15.00000	-0.13988	14.755	-68.360E-6	-0.32418
	27.00000	-9.00000	15.00000	-0.12046	14.755	-56.939E-6	-0.29548
	28.00000	-9.00000	15.00000	-0.099418	14.755	-47.457E-6	-0.26937
	29.00000	-9.00000	15.00000	-0.076732	14.755	-39.633E-6	-0.24573
	30.00000	-9.00000	15.00000	-0.052482	14.755	-33.199E-6	-0.22440
	31.00000	-9.00000	15.00000	-0.026857	14.755	-27.909E-6	-0.20518
	32.00000	-9.00000	15.00000	-178.11E-6	14.755	-23.557E-6	-0.18789
	33.00000	-9.00000	15.00000	0.027105	14.755	-19.966E-6	-0.17231
	34.00000	-9.00000	15.00000	0.054436	14.755	-16.996E-6	-0.15829
	35.0						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	40.00000	-9.00000	15.00000	0.18804	14.755	-7.0412E-6	-0.098383
	41.00000	-9.00000	15.00000	0.20192	14.755	-6.1586E-6	-0.091380
	42.00000	-9.00000	15.00000	0.21321	14.755	-5.4042E-6	-0.084997
	43.00000	-9.00000	15.00000	0.22203	14.755	-4.7572E-6	-0.079171
	44.00000	-9.00000	15.00000	0.22858	14.755	-4.2001E-6	-0.073845
	45.00000	-9.00000	15.00000	0.23307	14.755	-3.7189E-6	-0.068968
	46.00000	-9.00000	15.00000	0.23574	14.755	-3.3018E-6	-0.064495
	47.00000	-9.00000	15.00000	0.23680	14.755	-2.9391E-6	-0.060386
	48.00000	-9.00000	15.00000	0.23649	14.755	-2.6228E-6	-0.056607
	49.00000	-9.00000	15.00000	0.23499	14.755	-2.3461E-6	-0.053126
	50.00000	-9.00000	15.00000	0.23250	14.755	-2.1034E-6	-0.049916
	51.00000	-9.00000	15.00000	0.22919	14.755	-1.8899E-6	-0.046950
	52.00000	-9.00000	15.00000	0.22521	14.755	-1.7017E-6	-0.044207
	53.00000	-9.00000	15.00000	0.22069	14.755	-1.5353E-6	-0.041667
	54.00000	-9.00000	15.00000	0.21575	14.755	-1.3879E-6	-0.039312
	55.00000	-9.00000	15.00000	0.21048	14.755	-1.2570E-6	-0.037126
	-25.00000	-8.00000	15.00000	0.19005	14.755	-3.9722E-6	-0.071686
	-24.00000	-8.00000	15.00000	0.19513	14.755	-4.5007E-6	-0.076892
	-23.00000	-8.00000	15.00000	0.20002	14.755	-5.1154E-6	-0.082595
	-22.00000	-8.00000	15.00000	0.20463	14.755	-5.8332E-6	-0.088855
	-21.00000	-8.00000	15.00000	0.20889	14.755	-6.6747E-6	-0.095737
	-20.00000	-8.00000	15.00000	0.21268	14.755	-7.6655E-6	-0.10332
	-19.00000	-8.00000	15.00000	0.21589	14.755	-8.8374E-6	-0.11169
	-18.00000	-8.00000	15.00000	0.21838	14.755	-10.230E-6	-0.12094
	-17.00000	-8.00000	15.00000	0.21998	14.755	-11.893E-6	-0.13121
	-16.00000	-8.00000	15.00000	0.22052	14.755	-13.890E-6	-0.14260
	-15.00000	-8.00000	15.00000	0.21978	14.755	-16.300E-6	-0.15529
	-14.00000	-8.00000	15.00000	0.21753	14.755	-19.223E-6	-0.16944
	-13.00000	-8.00000	15.00000	0.21352	14.755	-22.790E-6	-0.18525
	-12.00000	-8.00000	15.00000	0.20745	14.755	-27.165E-6	-0.20295
	-11.00000	-8.00000	15.00000	0.19903	14.755	-32.559E-6	-0.22280
	-10.00000	-8.00000	15.00000	0.18793	14.755	-39.237E-6	-0.24508
	-9.00000	-8.00000	15.00000	0.17383	14.755	-47.535E-6	-0.27011
	-8.00000	-8.00000	15.00000	0.15641	14.755	-57.865E-6	-0.29819
	-7.00000	-8.00000	15.00000	0.13542	14.755	-70.719E-6	-0.32966
	-6.00000	-8.00000	15.00000	0.11064	14.755	-86.650E-6	-0.36478
	-5.00000	-8.00000	15.00000	0.081983	14.755	-106.22E-6	-0.40373
	-4.00000	-8.00000	15.00000	0.049541	14.755	-129.91E-6	-0.44653
	-3.00000	-8.00000	15.00000	0.013601	14.755	-157.95E-6	-0.49293
	-2.00000	-8.00000	15.00000	-0.025291	14.755	-190.08E-6	-0.54232
	-1.00000	-8.00000	15.00000	-0.066338	14.755	-225.46E-6	-0.59377
	0.00000	-8.00000	15.00000	-0.10852	14.755	-262.58E-6	-0.64575
	1.00000	-8.00000	15.00000	-0.15070	14.755	-299.50E-6	-0.69685
	2.00000	-8.00000	15.00000	-0.19174	14.755	-334.31E-6	-0.74543
	3.00000	-8.00000	15.00000	-0.23060	14.755	-365.45E-6	-0.79010
	4.00000	-8.00000	15.00000	-0.26446	14.755	-392.03E-6	-0.82978
	5.00000	-8.00000	15.00000	-0.29876	14.755	-413.76E-6	-0.86377
	6.00000	-8.00000	15.00000	-0.32715	14.755	-430.75E-6	-0.89170
	7.00000	-8.00000	15.00000	-0.35151	14.755	-443.37E-6	-0.91340
	8.00000	-8.00000	15.00000	-0.37188	14.755	-452.03E-6	-0.92886
	9.00000	-8.00000	15.00000	-0.38839	14.755	-457.08E-6	-0.93810
	10.00000	-8.00000	15.00000	-0.40125	14.755	-458.73E-6	-0.94118
	11.00000	-8.00000	15.00000	-0.41068	14.755	-457.08E-6	-0.93810
	12.00000	-8.00000	15.00000	-0.41693	14.755	-452.03E-6	-0.92886
	13.00000	-8.00000	15.00000	-0.42024	14.755	-443.37E-6	-0.91340
	14.00000	-8.00000	15.00000	-0.42083	14.755	-430.75E-6	-0.89170
	15.00000	-8.00000	15.00000	-0.41891	14.755	-413.76E-6	-0.86377
	16.00000	-8.00000	15.00000	-0.41467	14.755	-392.03E-6	-0.82978
	17.00000	-8.00000	15.00000	-0.40827	14.755	-365.45E-6	-0.79010
	18.00000	-8.00000	15.00000	-0.39987	14.755	-334.31E-6	-0.74543
	19.00000	-8.00000	15.00000	-0.38961	14.755	-299.50E-6	-0.69685
	20.00000	-8.00000	15.00000	-0.37760	14.755	-262.58E-6	-0.64575
	21.00000	-8.00000	15.00000	-0.36393	14.755	-225.46E-6	-0.59371
	22.00000	-8.00000	15.00000	-0.34864	14.755	-190.08E-6	-0.54232
	23.00000	-8.00000	15.00000	-0.33170	14.755	-157.95E-6	-0.49293
	24.00000	-8.00000	15.00000	-0.31306	14.755	-129.91E-6	-0.44653
	25.00000	-8.00000	15.00000	-0.29259	14.755	-106.22E-6	-0.40373
	26.00000	-8.00000	15.00000	-0.27013	14.755	-86.650E-6	-0.36478
	27.00000	-8.00000	15.00000	-0.24552	14.755	-70.719E-6	-0.32966
	28.00000	-8.00000	15.00000	-0.21860	14.755	-57.865E-6	-0.29819
	29.00000	-8.00000	15.00000	-0.18930	14.755	-47.535E-6	-0.27011
	30.00000	-8.00000	15.00000	-0.15766	14.755	-39.237E-6	-0.24508
	31.00000	-8.00000	15.00000	-0.12388	14.755	-32.559E-6	-0.22280
	32.00000	-8.00000	15.00000	-0.088379	14.755	-27.165E-6	-0.20295
	33.00000	-8.00000	15.00000	-0.051783	14.755	-22.790E-6	-0.18525
	34.00000	-8.00000	15.00000	-0.014905	14.755	-19.223E-6	-0.16944
	35.00000	-8.00000	15.00000	0.021340	14.755	-16.300E-6	-0.15529
	36.00000	-8.00000	15.00000	0.056036	14.755	-13.890E-6	-0.14260
	37.00000	-8.00000	15.00000	0.088376	14.755	-11.893E-6	-0.13121
	38.00000	-8.00000	15.00000	0.11774	14.755	-10.230E-6	-0.12094
	39.00000	-8.00000	15.00000	0.14374	14.755	-8.8374E-6	-0.11169
	40.00000	-8.00000	15.00000	0.16618	14.755	-7.6655E-6	-0.10332
	41.00000	-8.00000	15.00000	0.18506	14.755	-6.6747E-6	-0.095737
	42.00000	-8.00000	15.00000	0.20053	14.755	-5.8332E-6	-0.088855
	43.00000	-8.00000	15.00000	0.21281	14.755	-5.1154E-6	-0.082595
	44.00000	-8.00000	15.00000	0.22219	14.755	-4.5007E-6	-0.076892
	45.00000	-8.00000	15.00000	0.22897	14.755	-3.9722E-6	-0.071686
	46.00000	-8.00000	15.00000	0.23347	14.755	-3.5162E-6	-0.066925
	47.00000	-8.00000	15.00000	0.23598	14.755	-3.1213E-6	-0.062564
	48.00000	-8.00000	15.00000	0.23691	14.755	-2.7781E-6	-0.058563
	49.00000	-8.00000	15.00000	0.23619	14.755	-2.4790E-6	-0.054888
	50.00000	-8.00000	15.00000	0.23437	14.755	-2.2175E-6	-0.051502
	51.00000	-8.00000	15.00000	0.23156	14.755	-1.9882E-6	-0.048383
	52.00000	-8.00000	15.00000	0.22794	14.755	-1.7867E-6	-0.045504
	53.00000	-8.00000	15.00000	0.22367	14.755	-1.6089E-6	-0.042843
	54.00000	-8.00000	15.00000	0.21889	14.755	-1.4519E-6	-0.040389
	55.00000	-8.00000	15.00000	0.21371	14.755	-1.3127E-6	-0.038097
	-25.00000	-7.00000	15.00000	0.19274	14.755	-4.2346E-6	-0.074434
	-24.00000	-7.00000	15.00000	0.19780	14.755	-4.8133E-6	-0.079981
	-23.00000	-7.00000	15.00000	0.20262	14.755	-5.4894E-6	-0.086076
	-22.00000	-7.00000	15.00000	0.20712	14.755	-6.2830E-6	-0.092782
	-21.00000	-7.00000	15.00000	0.21120	14.755	-7.2186E-6	-0.10019
	-20.00000	-7.00000	15.00000	0.21473	14.755	-8.3271E-6	-0.10839
	-19.00000	-7.00000	15.00000	0.21757	14.755	-9.6471E-6	-0.11747
	-18.00000	-7.00000	15.00000	0.21956	14.755	-11.228E-6	-0.12756
	-17.00000	-7.00000	15.00000	0.22051	14.755	-13.131E-6	-0.13889
	-16.00000	-7.00000	15.00000	0.22020	14.755	-15.437E-6	-0.15136
	-15.00000	-7.00000	15.00000	0.21837	14.755	-18.250E-6	-0.16542
	-14.00000	-7.00000	15.00000	0.21474	14.755	-21.703E-6	-0.18122
	-13.00000	-7.00000	15.00000	0.20897	14.755	-25.974E-6	-0.19902
	-12.00000	-7.00000	15.00000	0.20072	14.755	-31.293E-6	-0.21912
	-11.00000	-7.00000	15.00000	0.18958	14.755	-37.966E-6	-0.24188
	-10.00000	-7.00000	15.00000	0.17512	14.755	-46.397E-6	-0.26772
	-9.00000	-7.00000	15.00000	0.15689	14.755	-57.118E-6	-0.29710
	-8.00000	-7.00000	15.00000	0.13443	14.755	-70.822E-6	-0.33056
	-7.00000	-7.00000	15.00000	0.10732	14.755	-88.394E-6	-0.36684
	-6.00000	-7.00000	15.00000	0.075218	14.755	-110.92E-6	-0.41190
	-5.00000	-7.00000	15.00000	0.037892	14.755	-139.64E-6	-0.46082
	-4.00000	-7.00000	15.00000	-0.0046587	14.755	-175.80E-6	-0.51567
	-3.00000	-7.00000	15.00000	-0.052134	14.755	-220.30E-6	-0.57634
	-2.00000	-7.00000	15.00000	-0.10385	14.755	-273.17E-6	-0.64215
	-1.00000	-7.00000	15.00000	-0.15871	14.755	-333.03E-6	-0.71166
	0.00000	-7.00000	15.00000	-0.21524	14.755	-396.86E-6	-0.78276
	1.00000	-7.00000	15.00000	-0.27174	14.755	-460.46E-6	-0.85281
	2.00000	-7.00000	15.00000	-0.32651	14.755	-519.65E-6	-0.91920
	3.00000	-7.00000	15.00000				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses			
X [m]	Y [m]	Z[Level] [m]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
8.00000	-7.00000	15.00000	-0.56150	14.755	-704.62E-6	-1.1621
9.00000	-7.00000	15.00000	-0.58246	14.755	-711.77E-6	-1.1738
10.00000	-7.00000	15.00000	-0.59872	14.755	-714.10E-6	-1.1777
11.00000	-7.00000	15.00000	-0.61065	14.755	-711.77E-6	-1.1738
12.00000	-7.00000	15.00000	-0.61858	14.755	-704.62E-6	-1.1621
13.00000	-7.00000	15.00000	-0.62284	14.755	-692.17E-6	-1.1423
14.00000	-7.00000	15.00000	-0.62373	14.755	-673.63E-6	-1.1143
15.00000	-7.00000	15.00000	-0.62149	14.755	-647.98E-6	-1.0778
16.00000	-7.00000	15.00000	-0.61636	14.755	-614.15E-6	-1.0329
17.00000	-7.00000	15.00000	-0.60856	14.755	-571.36E-6	-0.97972
18.00000	-7.00000	15.00000	-0.59826	14.755	-519.65E-6	-0.91920
19.00000	-7.00000	15.00000	-0.58564	14.755	-460.46E-6	-0.85281
20.00000	-7.00000	15.00000	-0.57085	14.755	-396.86E-6	-0.78276
21.00000	-7.00000	15.00000	-0.55401	14.755	-333.03E-6	-0.71166
22.00000	-7.00000	15.00000	-0.53517	14.755	-273.17E-6	-0.64214
23.00000	-7.00000	15.00000	-0.51429	14.755	-220.30E-6	-0.57634
24.00000	-7.00000	15.00000	-0.49127	14.755	-175.80E-6	-0.51567
25.00000	-7.00000	15.00000	-0.46590	14.755	-139.64E-6	-0.46082
26.00000	-7.00000	15.00000	-0.43791	14.755	-110.92E-6	-0.41190
27.00000	-7.00000	15.00000	-0.40700	14.755	-88.394E-6	-0.36864
28.00000	-7.00000	15.00000	-0.37287	14.755	-70.822E-6	-0.33056
29.00000	-7.00000	15.00000	-0.33532	14.755	-57.118E-6	-0.29710
30.00000	-7.00000	15.00000	-0.29430	14.755	-46.397E-6	-0.26772
31.00000	-7.00000	15.00000	-0.24998	14.755	-37.966E-6	-0.24188
32.00000	-7.00000	15.00000	-0.20290	14.755	-31.293E-6	-0.21912
33.00000	-7.00000	15.00000	-0.15192	14.755	-25.974E-6	-0.19302
34.00000	-7.00000	15.00000	-0.10425	14.755	-21.703E-6	-0.18122
35.00000	-7.00000	15.00000	-0.055283	14.755	-18.250E-6	-0.16542
36.00000	-7.00000	15.00000	-0.0084191	14.755	-15.437E-6	-0.15136
37.00000	-7.00000	15.00000	0.035144	14.755	-13.131E-6	-0.13880
38.00000	-7.00000	15.00000	0.074531	14.755	-11.228E-6	-0.12755
39.00000	-7.00000	15.00000	0.10924	14.755	-9.6471E-6	-0.11747
40.00000	-7.00000	15.00000	0.13909	14.755	-8.3271E-6	-0.10839
41.00000	-7.00000	15.00000	0.16417	14.755	-7.2186E-6	-0.10019
42.00000	-7.00000	15.00000	0.18475	14.755	-6.2830E-6	-0.092788
43.00000	-7.00000	15.00000	0.20120	14.755	-5.4894E-6	-0.08670
44.00000	-7.00000	15.00000	0.21395	14.755	-4.8133E-6	-0.079981
45.00000	-7.00000	15.00000	0.22344	14.755	-4.2346E-6	-0.074434
46.00000	-7.00000	15.00000	0.23008	14.755	-3.7375E-6	-0.069376
47.00000	-7.00000	15.00000	0.23430	14.755	-3.3086E-6	-0.064756
48.00000	-7.00000	15.00000	0.23644	14.755	-2.9374E-6	-0.060527
49.00000	-7.00000	15.00000	0.23685	14.755	-2.6149E-6	-0.056650
50.00000	-7.00000	15.00000	0.23581	14.755	-2.3339E-6	-0.053089
51.00000	-7.00000	15.00000	0.23358	14.755	-2.0883E-6	-0.049814
52.00000	-7.00000	15.00000	0.23038	14.755	-1.8729E-6	-0.046797
53.00000	-7.00000	15.00000	0.22641	14.755	-1.6835E-6	-0.044073
54.00000	-7.00000	15.00000	0.22183	14.755	-1.5165E-6	-0.041441
55.00000	-7.00000	15.00000	0.21677	14.755	-1.3689E-6	-0.039061
-25.00000	-6.00000	15.00000	0.19530	14.755	-4.5048E-6	-0.077201
-24.00000	-6.00000	15.00000	0.20032	14.755	-5.1362E-6	-0.083098
-23.00000	-6.00000	15.00000	0.20506	14.755	-5.8775E-6	-0.089598
-22.00000	-6.00000	15.00000	0.20942	14.755	-6.7517E-6	-0.096779
-21.00000	-6.00000	15.00000	0.21329	14.755	-7.7881E-6	-0.10473
-20.00000	-6.00000	15.00000	0.21652	14.755	-9.0233E-6	-0.11356
-19.00000	-6.00000	15.00000	0.21895	14.755	-10.504E-6	-0.12339
-18.00000	-6.00000	15.00000	0.22038	14.755	-12.220E-6	-0.13435
-17.00000	-6.00000	15.00000	0.22060	14.755	-14.459E-6	-0.14665
-16.00000	-6.00000	15.00000	0.21934	14.755	-17.111E-6	-0.16045
-15.00000	-6.00000	15.00000	0.21629	14.755	-20.379E-6	-0.17601
-14.00000	-6.00000	15.00000	0.21110	14.755	-24.441E-6	-0.19361
-13.00000	-6.00000	15.00000	0.20337	14.755	-29.532E-6	-0.21367
-12.00000	-6.00000	15.00000	0.19263	14.755	-35.973E-6	-0.23637
-11.00000	-6.00000	15.00000	0.17838	14.755	-44.202E-6	-0.26243
-10.00000	-6.00000	15.00000	0.16004	14.755	-54.823E-6	-0.29236
-9.00000	-6.00000	15.00000	0.13698	14.755	-68.667E-6	-0.32686
-8.00000	-6.00000	15.00000	0.11057	14.755	-86.886E-6	-0.36675
-7.00000	-6.00000	15.00000	0.074131	14.755	-111.06E-6	-0.41299
-6.00000	-6.00000	15.00000	0.033082	14.755	-143.29E-6	-0.46662
-5.00000	-6.00000	15.00000	-0.015040	14.755	-186.30E-6	-0.52867
-4.00000	-6.00000	15.00000	-0.070436	14.755	-243.22E-6	-0.60003
-3.00000	-6.00000	15.00000	-0.13288	14.755	-317.02E-6	-0.68108
-2.00000	-6.00000	15.00000	-0.20158	14.755	-409.22E-6	-0.77123
-1.00000	-6.00000	15.00000	-0.27501	14.755	-517.93E-6	-0.86849
0.00000	-6.00000	15.00000	-0.35099	14.755	-636.59E-6	-0.96928
1.00000	-6.00000	15.00000	-0.42692	14.755	-754.99E-6	-1.0689
2.00000	-6.00000	15.00000	-0.50019	14.755	-862.92E-6	-1.1627
3.00000	-6.00000	15.00000	-0.56859	14.755	-953.77E-6	-1.2469
4.00000	-6.00000	15.00000	-0.63059	14.755	-0.0010256	-1.3196
5.00000	-6.00000	15.00000	-0.68533	14.755	-0.0010798	-1.3798
6.00000	-6.00000	15.00000	-0.73254	14.755	-0.0011191	-1.4278
7.00000	-6.00000	15.00000	-0.77234	14.755	-0.0011468	-1.4642
8.00000	-6.00000	15.00000	-0.80512	14.755	-0.0011645	-1.4896
9.00000	-6.00000	15.00000	-0.83138	14.755	-0.0011747	-1.5046
10.00000	-6.00000	15.00000	-0.85166	14.755	-0.0011779	-1.5095
11.00000	-6.00000	15.00000	-0.86648	14.755	-0.0011747	-1.5046
12.00000	-6.00000	15.00000	-0.87634	14.755	-0.0011645	-1.4896
13.00000	-6.00000	15.00000	-0.88167	14.755	-0.0011466	-1.4642
14.00000	-6.00000	15.00000	-0.88284	14.755	-0.0011191	-1.4278
15.00000	-6.00000	15.00000	-0.88017	14.755	-0.0010798	-1.3798
16.00000	-6.00000	15.00000	-0.87393	14.755	-0.0010256	-1.3196
17.00000	-6.00000	15.00000	-0.86487	14.755	-953.77E-6	-1.2469
18.00000	-6.00000	15.00000	-0.85171	14.755	-862.92E-6	-1.1627
19.00000	-6.00000	15.00000	-0.83619	14.755	-754.99E-6	-1.0689
20.00000	-6.00000	15.00000	-0.81799	14.755	-636.59E-6	-0.96928
21.00000	-6.00000	15.00000	-0.79729	14.755	-517.93E-6	-0.86849
22.00000	-6.00000	15.00000	-0.77417	14.755	-409.22E-6	-0.77123
23.00000	-6.00000	15.00000	-0.74859	14.755	-317.02E-6	-0.68107
24.00000	-6.00000	15.00000	-0.72039	14.755	-243.22E-6	-0.60003
25.00000	-6.00000	15.00000	-0.68922	14.755	-186.30E-6	-0.52867
26.00000	-6.00000	15.00000	-0.65467	14.755	-143.29E-6	-0.46662
27.00000	-6.00000	15.00000	-0.61662	14.755	-111.06E-6	-0.41299
28.00000	-6.00000	15.00000	-0.57330	14.755	-86.886E-6	-0.36675
29.00000	-6.00000	15.00000	-0.52552	14.755	-68.667E-6	-0.32686
30.00000	-6.00000	15.00000	-0.47258	14.755	-54.823E-6	-0.29236
31.00000	-6.00000	15.00000	-0.41460	14.755	-44.202E-6	-0.26243
32.00000	-6.00000	15.00000	-0.35216	14.755	-35.973E-6	-0.23637
33.00000	-6.00000	15.00000	-0.28649	14.755	-29.532E-6	-0.21367
34.00000	-6.00000	15.00000	-0.21940	14.755	-24.441E-6	-0.19361
35.00000	-6.00000	15.00000	-0.15310	14.755	-20.379E-6	-0.17601
36.00000	-6.00000	15.00000	-0.089784	14.755	-17.111E-6	-0.16045
37.00000	-6.00000	15.00000	-0.031270	14.755	-14.459E-6	-0.14665
38.00000	-6.00000	15.00000	0.021214	14.755	-12.290E-6	-0.13436
39.00000	-6.00000	15.00000	0.067069	14.755	-10.504E-6	-0.12339
40.00000	-6.00000	15.00000	0.10621	14.755	-9.0233E-6	-0.11356
41.00000	-6.00000	15.00000	0.13891	14.755	-7.7881E-6	-0.10473
42.00000	-6.00000	15.00000	0.16567	14.755	-6.7517E-6	-0.096779
43.00000	-6.00000	15.00000	0.18709	14.755	-5.8775E-6	-0.089598
44.00000	-6.00000	15.00000	0.20381	14.755	-5.1362E-6	-0.083098
45.00000	-6.00000	15.00000	0.21644	14.755	-4.5048E-6	-0.077201
46.00000	-6.00000	15.00000	0.22557	14.755	-3.9645E-6	-0.071838
47.00000	-6.00000	15.00000	0.23173	14.755	-3.5003E-6	-0.066952
48.00000	-6.00000	15.00000	0.23538	14.755	-3.0999E-6	-0.062491
49.00000	-6.00000	15.00000	0.23696	14.755	-2.7532E-6	-0.058410
50.00000	-6.00000	15.00000	0.23680	14.755	-2.4520E-6	-0.054671
51.00000	-6.00000	15.00000	0.23524	14.755	-2.1895E-6	-0.051238
52.00000	-6.00000	15.00000	0.23253	14.755	-1.9592E-6	-0.048081
53.00000	-6.00000	15.00000	0.22891	14.755	-1.7586E-6	-0.045173
54.00000	-6.00000	15.00000	0.22456	14.755	-1.5815E-6	-0.042491
55.00000	-6.00000	15.00000	0.21966	14.755	-1.4253E-6	-0.040014
-25.00000	-5.00000	15.00000	0.19773	14.755	-4.7812E-6	-0.079972

Job No.	Sheet No.	Rev.
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Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]	
	-24.00000	-5.00000	15.00000	0.20270	14.755	-5.4678E-6	-0.086228	0.0
	-23.00000	-5.00000	15.00000	0.20734	14.755	-6.2773E-6	-0.093144	0.0
	-22.00000	-5.00000	15.00000	0.21154	14.755	-7.2367E-6	-0.10081	0.0
	-21.00000	-5.00000	15.00000	0.21517	14.755	-8.3800E-6	-0.10932	0.0
	-20.00000	-5.00000	15.00000	0.21806	14.755	-9.7504E-6	-0.11882	0.0
	-19.00000	-5.00000	15.00000	0.22003	14.755	-11.404E-6	-0.12943	0.0
	-18.00000	-5.00000	15.00000	0.22086	14.755	-13.412E-6	-0.14132	0.0
	-17.00000	-5.00000	15.00000	0.22027	14.755	-15.871E-6	-0.15472	0.0
	-16.00000	-5.00000	15.00000	0.21796	14.755	-18.905E-6	-0.16984	0.0
	-15.00000	-5.00000	15.00000	0.21356	14.755	-22.682E-6	-0.18700	0.0
	-14.00000	-5.00000	15.00000	0.20665	14.755	-27.431E-6	-0.20655	0.0
	-13.00000	-5.00000	15.00000	0.19672	14.755	-33.465E-6	-0.22892	0.0
	-12.00000	-5.00000	15.00000	0.18321	14.755	-41.220E-6	-0.25465	0.0
	-11.00000	-5.00000	15.00000	0.16546	14.755	-51.313E-6	-0.28440	0.0
	-10.00000	-5.00000	15.00000	0.14270	14.755	-64.627E-6	-0.31899	0.0
	-9.00000	-5.00000	15.00000	0.11410	14.755	-82.441E-6	-0.35943	0.0
	-8.00000	-5.00000	15.00000	0.078733	14.755	-106.63E-6	-0.40700	1.0489E-6
	-7.00000	-5.00000	15.00000	0.035614	14.755	-139.96E-6	-0.46324	1.1936E-6
	-6.00000	-5.00000	15.00000	-0.016236	14.755	-186.48E-6	-0.53002	1.3652E-6
	-5.00000	-5.00000	15.00000	-0.077766	14.755	-252.03E-6	-0.60947	1.5693E-6
	-4.00000	-5.00000	15.00000	-0.14937	14.755	-344.48E-6	-0.70380	1.8113E-6
	-3.00000	-5.00000	15.00000	-0.23132	14.755	-473.20E-6	-0.81475	2.0958E-6
	-2.00000	-5.00000	15.00000	-0.32274	14.755	-646.02E-6	-0.94264	2.4232E-6
	-1.00000	-5.00000	15.00000	-0.42160	14.755	-862.83E-6	-1.0849	2.7871E-6
	0.00000	-5.00000	15.00000	-0.52457	14.755	-0.0011084	-1.2352	3.1713E-6
	1.00000	-5.00000	15.00000	-0.62747	14.755	-0.0013536	-1.3843	3.5522E-6
	2.00000	-5.00000	15.00000	-0.72608	14.755	-0.0015695	-1.5227	3.9061E-6
	3.00000	-5.00000	15.00000	-0.81705	14.755	-0.0017408	-1.6440	4.2167E-6
	4.00000	-5.00000	15.00000	-0.89834	14.755	-0.0018672	-1.7456	4.4770E-6
	5.00000	-5.00000	15.00000	-0.96907	14.755	-0.0019565	-1.8275	4.6870E-6
	6.00000	-5.00000	15.00000	-1.0292	14.755	-0.0020177	-1.8912	4.8505E-6
	7.00000	-5.00000	15.00000	-1.0794	14.755	-0.0020586	-1.9385	4.9720E-6
	8.00000	-5.00000	15.00000	-1.1202	14.755	-0.0020844	-1.9711	5.0557E-6
	9.00000	-5.00000	15.00000	-1.1527	14.755	-0.0020986	-1.9901	5.1046E-6
	10.00000	-5.00000	15.00000	-1.1777	14.755	-0.0021031	-1.9964	5.1207E-6
	11.00000	-5.00000	15.00000	-1.1958	14.755	-0.0020986	-1.9901	5.1046E-6
	12.00000	-5.00000	15.00000	-1.2078	14.755	-0.0020844	-1.9711	5.0557E-6
	13.00000	-5.00000	15.00000	-1.2143	14.755	-0.0020586	-1.9385	4.9720E-6
	14.00000	-5.00000	15.00000	-1.2157	14.755	-0.0020177	-1.8912	4.8505E-6
	15.00000	-5.00000	15.00000	-1.2125	14.755	-0.0019565	-1.8275	4.6870E-6
	16.00000	-5.00000	15.00000	-1.2048	14.755	-0.0018672	-1.7456	4.4770E-6
	17.00000	-5.00000	15.00000	-1.1931	14.755	-0.0017408	-1.6440	4.2167E-6
	18.00000	-5.00000	15.00000	-1.1775	14.755	-0.0015695	-1.5227	3.9061E-6
	19.00000	-5.00000	15.00000	-1.1583	14.755	-0.0013536	-1.3843	3.5522E-6
	20.00000	-5.00000	15.00000	-1.1359	14.755	-0.0011084	-1.2352	3.1713E-6
	21.00000	-5.00000	15.00000	-1.1104	14.755	-862.83E-6	-1.0849	2.7871E-6
	22.00000	-5.00000	15.00000	-1.0821	14.755	-646.02E-6	-0.94264	2.4232E-6
	23.00000	-5.00000	15.00000	-1.0509	14.755	-473.20E-6	-0.81475	2.0958E-6
	24.00000	-5.00000	15.00000	-1.0166	14.755	-344.48E-6	-0.70380	1.8113E-6
	25.00000	-5.00000	15.00000	-0.97867	14.755	-252.03E-6	-0.60947	1.5693E-6
	26.00000	-5.00000	15.00000	-0.93641	14.755	-186.48E-6	-0.53002	1.3652E-6
	27.00000	-5.00000	15.00000	-0.88900	14.755	-139.96E-6	-0.46324	1.1936E-6
	28.00000	-5.00000	15.00000	-0.83552	14.755	-106.63E-6	-0.40700	1.0489E-6
	29.00000	-5.00000	15.00000	-0.77511	14.755	-82.441E-6	-0.35943	0.0
	30.00000	-5.00000	15.00000	-0.70711	14.755	-64.627E-6	-0.31899	0.0
	31.00000	-5.00000	15.00000	-0.63131	14.755	-51.313E-6	-0.28440	0.0
	32.00000	-5.00000	15.00000	-0.54830	14.755	-41.220E-6	-0.25465	0.0
	33.00000	-5.00000	15.00000	-0.45972	14.755	-33.465E-6	-0.22892	0.0
	34.00000	-5.00000	15.00000	-0.36840	14.755	-27.431E-6	-0.20655	0.0
	35.00000	-5.00000	15.00000	-0.27795	14.755	-22.682E-6	-0.18700	0.0
	36.00000	-5.00000	15.00000	-0.19198	14.755	-18.905E-6	-0.16984	0.0
	37.00000	-5.00000	15.00000	-0.11334	14.755	-15.871E-6	-0.15472	0.0
	38.00000	-5.00000	15.00000	-0.043680	14.755	-13.412E-6	-0.14132	0.0
	39.00000	-5.00000	15.00000	0.016400	14.755	-11.404E-6	-0.12943	0.0
	40.00000	-5.00000	15.00000	0.067095	14.755	-9.7504E-6	-0.11882	0.0
	41.00000	-5.00000	15.00000	0.10907	14.755	-8.3800E-6	-0.10932	0.0
	42.00000	-5.00000	15.00000	0.14320	14.755	-7.2367E-6	-0.10081	0.0
	43.00000	-5.00000	15.00000	0.17045	14.755	-6.2773E-6	-0.093144	0.0
	44.00000	-5.00000	15.00000	0.19176	14.755	-5.4678E-6	-0.086228	0.0
	45.00000	-5.00000	15.00000	0.20800	14.755	-4.7812E-6	-0.079972	0.0
	46.00000	-5.00000	15.00000	0.21994	14.755	-4.1961E-6	-0.074299	0.0
	47.00000	-5.00000	15.00000	0.22829	14.755	-3.6952E-6	-0.069143	0.0
	48.00000	-5.00000	15.00000	0.23365	14.755	-3.2646E-6	-0.064446	0.0
	49.00000	-5.00000	15.00000	0.23652	14.755	-2.8931E-6	-0.060160	0.0
	50.00000	-5.00000	15.00000	0.23736	14.755	-2.5712E-6	-0.056239	0.0
	51.00000	-5.00000	15.00000	0.23654	14.755	-2.2914E-6	-0.052647	0.0
	52.00000	-5.00000	15.00000	0.23438	14.755	-2.0474E-6	-0.049350	0.0
	53.00000	-5.00000	15.00000	0.23116	14.755	-1.8339E-6	-0.046319	0.0
	54.00000	-5.00000	15.00000	0.22708	14.755	-1.6465E-6	-0.043527	0.0
	55.00000	-5.00000	15.00000	0.22236	14.755	-1.4817E-6	-0.040952	0.0
	-25.00000	-4.00000	15.00000	0.20002	14.755	-5.0621E-6	-0.082734	0.0
	-24.00000	-4.00000	15.00000	0.20493	14.755	-5.8059E-6	-0.089354	0.0
	-23.00000	-4.00000	15.00000	0.20946	14.755	-6.6864E-6	-0.096693	0.0
	-22.00000	-4.00000	15.00000	0.21348	14.755	-7.7347E-6	-0.10485	0.0
	-21.00000	-4.00000	15.00000	0.21684	14.755	-8.9902E-6	-0.11395	0.0
	-20.00000	-4.00000	15.00000	0.21937	14.755	-10.503E-6	-0.12412	0.0
	-19.00000	-4.00000	15.00000	0.22084	14.755	-12.340E-6	-0.13554	0.0
	-18.00000	-4.00000	15.00000	0.22100	14.755	-14.587E-6	-0.14840	0.0
	-17.00000	-4.00000	15.00000	0.21953	14.755	-17.358E-6	-0.16295	0.0
	-16.00000	-4.00000	15.00000	0.21609	14.755	-20.807E-6	-0.17947	0.0
	-15.00000	-4.00000	15.00000	0.21022	14.755	-25.143E-6	-0.19833	0.0
	-14.00000	-4.00000	15.00000	0.20144	14.755	-30.658E-6	-0.21995	0.0
	-13.00000	-4.00000	15.00000	0.18911	14.755	-37.756E-6	-0.24490	0.0
	-12.00000	-4.00000	15.00000	0.17255	14.755	-47.022E-6	-0.27	

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by	Date	Checked
MP		

Name	Location	Displacement	Stresses				
X	Y	Z[Level]	Z	Calc Level	Vert Stress	Sum Princ	Vert Strain
[m]	[m]	[mOD]	[m]	[mOD]	[kN/m²]	[kN/m²]	[-]
25.00000	-4.00000	15.00000	-1.3575	14.755	-344.73E-6	-0.70546	1.8156E-6
26.00000	-4.00000	15.00000	-1.3063	14.755	-243.64E-6	-0.60302	1.5528E-6
27.00000	-4.00000	15.00000	-1.2485	14.755	-176.35E-6	-0.51968	1.3387E-6
28.00000	-4.00000	15.00000	-1.1824	14.755	-130.54E-6	-0.45133	1.1630E-6
29.00000	-4.00000	15.00000	-1.1066	14.755	-98.615E-6	-0.39476	1.0175E-6
30.00000	-4.00000	15.00000	-1.0197	14.755	-75.862E-6	-0.34750	0.0
31.00000	-4.00000	15.00000	-0.92066	14.755	-59.304E-6	-0.30768	0.0
32.00000	-4.00000	15.00000	-0.80972	14.755	-47.022E-6	-0.27385	0.0
33.00000	-4.00000	15.00000	-0.68895	14.755	-37.756E-6	-0.24490	0.0
34.00000	-4.00000	15.00000	-0.56280	14.755	-30.658E-6	-0.21995	0.0
35.00000	-4.00000	15.00000	-0.43762	14.755	-25.143E-6	-0.19833	0.0
36.00000	-4.00000	15.00000	-0.31975	14.755	-20.807E-6	-0.17947	0.0
37.00000	-4.00000	15.00000	-0.21367	14.755	-17.358E-6	-0.16295	0.0
38.00000	-4.00000	15.00000	-0.12147	14.755	-14.587E-6	-0.14840	0.0
39.00000	-4.00000	15.00000	-0.043368	14.755	-12.340E-6	-0.13554	0.0
40.00000	-4.00000	15.00000	0.021521	14.755	-10.503E-6	-0.12412	0.0
41.00000	-4.00000	15.00000	0.074588	14.755	-8.9902E-6	-0.11395	0.0
42.00000	-4.00000	15.00000	0.11736	14.755	-7.7347E-6	-0.10485	0.0
43.00000	-4.00000	15.00000	0.15134	14.755	-6.6864E-6	-0.096693	0.0
44.00000	-4.00000	15.00000	0.17787	14.755	-5.8059E-6	-0.089354	0.0
45.00000	-4.00000	15.00000	0.19817	14.755	-5.0621E-6	-0.082734	0.0
46.00000	-4.00000	15.00000	0.21326	14.755	-4.4307E-6	-0.076746	0.0
47.00000	-4.00000	15.00000	0.22404	14.755	-3.8922E-6	-0.071317	0.0
48.00000	-4.00000	15.00000	0.23127	14.755	-3.4307E-6	-0.066383	0.0
49.00000	-4.00000	15.00000	0.23557	14.755	-3.0337E-6	-0.061889	0.0
50.00000	-4.00000	15.00000	0.23750	14.755	-2.6907E-6	-0.057787	0.0
51.00000	-4.00000	15.00000	0.23750	14.755	-2.3934E-6	-0.054036	0.0
52.00000	-4.00000	15.00000	0.23595	14.755	-2.1347E-6	-0.050599	0.0
53.00000	-4.00000	15.00000	0.23315	14.755	-1.9089E-6	-0.047444	0.0
54.00000	-4.00000	15.00000	0.22939	14.755	-1.7112E-6	-0.044543	0.0
55.00000	-4.00000	15.00000	0.22487	14.755	-1.5376E-6	-0.041871	0.0
-25.00000	-3.00000	15.00000	0.20218	14.755	-5.3455E-6	-0.085469	0.0
-24.00000	-3.00000	15.00000	0.20701	14.755	-6.1479E-6	-0.092457	0.0
-23.00000	-3.00000	15.00000	0.21141	14.755	-7.1016E-6	-0.10022	0.0
-22.00000	-3.00000	15.00000	0.21523	14.755	-8.2418E-6	-0.10888	0.0
-21.00000	-3.00000	15.00000	0.21831	14.755	-9.6138E-6	-0.11857	0.0
-20.00000	-3.00000	15.00000	0.22044	14.755	-11.276E-6	-0.12944	0.0
-19.00000	-3.00000	15.00000	0.22137	14.755	-13.305E-6	-0.14169	0.0
-18.00000	-3.00000	15.00000	0.22082	14.755	-15.803E-6	-0.15554	0.0
-17.00000	-3.00000	15.00000	0.21843	14.755	-18.906E-6	-0.17129	0.0
-16.00000	-3.00000	15.00000	0.21377	14.755	-22.800E-6	-0.18926	0.0
-15.00000	-3.00000	15.00000	0.20634	14.755	-27.741E-6	-0.20989	0.0
-14.00000	-3.00000	15.00000	0.19554	14.755	-34.092E-6	-0.23371	0.0
-13.00000	-3.00000	15.00000	0.18064	14.755	-42.369E-6	-0.26140	0.0
-12.00000	-3.00000	15.00000	0.16077	14.755	-53.333E-6	-0.29381	0.0
-11.00000	-3.00000	15.00000	0.13490	14.755	-68.120E-6	-0.33208	0.0
-10.00000	-3.00000	15.00000	0.10180	14.755	-88.485E-6	-0.37768	0.0
-9.00000	-3.00000	15.00000	0.059976	14.755	-117.21E-6	-0.43260	1.1148E-6
-8.00000	-3.00000	15.00000	0.0076940	14.755	-158.84E-6	-0.49954	1.2870E-6
-7.00000	-3.00000	15.00000	-0.057105	14.755	-221.14E-6	-0.58225	1.4995E-6
-6.00000	-3.00000	15.00000	-0.13680	14.755	-317.76E-6	-0.68605	1.7659E-6
-5.00000	-3.00000	15.00000	-0.23406	14.755	-473.77E-6	-0.81846	2.1053E-6
-4.00000	-3.00000	15.00000	-0.35169	14.755	-736.44E-6	-0.99024	2.5447E-6
-3.00000	-3.00000	15.00000	-0.49220	14.755	-0.0011947	-1.2159	3.1201E-6
-2.00000	-3.00000	15.00000	-0.65675	14.755	-0.0020011	-1.5122	3.8724E-6
-1.00000	-3.00000	15.00000	-0.84317	14.755	-0.0033348	-1.8883	4.8227E-6
0.00000	-3.00000	15.00000	-1.0433	14.755	-0.0051590	-2.3238	5.9183E-6
1.00000	-3.00000	15.00000	-1.2433	14.755	-0.0069829	-2.7576	7.0100E-6
2.00000	-3.00000	15.00000	-1.4293	14.755	-0.0083154	-3.1291	7.9481E-6
3.00000	-3.00000	15.00000	-1.5931	14.755	-0.0091198	-3.4174	8.6799E-6
4.00000	-3.00000	15.00000	-1.7325	14.755	-0.0095750	-3.6316	9.2258E-6
5.00000	-3.00000	15.00000	-1.8485	14.755	-0.0098334	-3.7881	9.6258E-6
6.00000	-3.00000	15.00000	-1.9437	14.755	-0.0099836	-3.9010	9.9148E-6
7.00000	-3.00000	15.00000	-2.0206	14.755	-0.010072	-3.9803	10.118E-6
8.00000	-3.00000	15.00000	-2.0818	14.755	-0.010124	-4.0329	10.253E-6
9.00000	-3.00000	15.00000	-2.1296	14.755	-0.010151	-4.0630	10.330E-6
10.00000	-3.00000	15.00000	-2.1657	14.755	-0.010159	-4.0728	10.356E-6
11.00000	-3.00000	15.00000	-2.1917	14.755	-0.010151	-4.0630	10.330E-6
12.00000	-3.00000	15.00000	-2.2087	14.755	-0.010124	-4.0329	10.253E-6
13.00000	-3.00000	15.00000	-2.2178	14.755	-0.010072	-3.9803	10.118E-6
14.00000	-3.00000	15.00000	-2.2196	14.755	-0.0099836	-3.9010	9.9148E-6
15.00000	-3.00000	15.00000	-2.2145	14.755	-0.0098334	-3.7881	9.6258E-6
16.00000	-3.00000	15.00000	-2.2029	14.755	-0.0095750	-3.6316	9.2258E-6
17.00000	-3.00000	15.00000	-2.1849	14.755	-0.0091198	-3.4174	8.6799E-6
18.00000	-3.00000	15.00000	-2.1606	14.755	-0.0083154	-3.1291	7.9481E-6
19.00000	-3.00000	15.00000	-2.1303	14.755	-0.0069829	-2.7576	7.0100E-6
20.00000	-3.00000	15.00000	-2.0946	14.755	-0.0051590	-2.3238	5.9183E-6
21.00000	-3.00000	15.00000	-2.0548	14.755	-0.0033348	-1.8883	4.8227E-6
22.00000	-3.00000	15.00000	-2.0118	14.755	-0.0020011	-1.5122	3.8724E-6
23.00000	-3.00000	15.00000	-1.9658	14.755	-0.0011947	-1.2159	3.1201E-6
24.00000	-3.00000	15.00000	-1.9160	14.755	-736.44E-6	-0.99024	2.5447E-6
25.00000	-3.00000	15.00000	-1.8614	14.755	-473.77E-6	-0.81846	2.1053E-6
26.00000	-3.00000	15.00000	-1.8001	14.755	-317.76E-6	-0.68605	1.7659E-6
27.00000	-3.00000	15.00000	-1.7303	14.755	-221.14E-6	-0.58225	1.4995E-6
28.00000	-3.00000	15.00000	-1.6497	14.755	-158.84E-6	-0.49954	1.2870E-6
29.00000	-3.00000	15.00000	-1.5555	14.755	-117.21E-6	-0.43260	1.1148E-6
30.00000	-3.00000	15.00000	-1.4450	14.755	-88.485E-6	-0.37768	0.0
31.00000	-3.00000	15.00000	-1.3158	14.755	-68.120E-6	-0.33208	0.0
32.00000	-3.00000	15.00000	-1.1665	14.755	-53.333E-6	-0.29381	0.0
33.00000	-3.00000	15.00000	-0.99903	14.755	-42.369E-6	-0.26140	0.0
34.00000	-3.00000	15.00000	-0.82038	14.755	-34.092E-6	-0.23371	0.0
35.00000	-3.00000	15.00000	-0.64280	14.755	-27.741E-6	-0.20989	0.0
36.00000	-3.00000	15.00000	-0.47849	14.755	-22.800E-6	-0.18926	0.0
37.00000	-3.00000	15.00000	-0.33459	14.755	-18.906E-6	-0.17129	0.0
38.00000	-3.00000	15.00000	-0.21295	14.755	-15.803E-6	-0.15554	0.0
39.00000	-3.00000	15.00000	-0.11236	14.755	-13.305E-6	-0.14169	0.0
40.00000	-3.00000	15.00000	-0.030367	14.755	-11.276E-6	-0.12944	0.0
41.000.							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-7.00000	-2.00000	15.00000	-0.11032	14.755	-274.38E-6	-0.65032	1.6744E-6
-6.00000	-2.00000	15.00000	-0.20701	14.755	-410.36E-6	-0.77858	2.0034E-6
-5.00000	-2.00000	15.00000	-0.32701	14.755	-647.03E-6	-0.94884	2.4392E-6
-4.00000	-2.00000	15.00000	-0.47547	14.755	-0.0010910	-1.1823	3.0350E-6
-3.00000	-2.00000	15.00000	-0.65831	14.755	-0.0020016	-1.5148	3.8791E-6
-2.00000	-2.00000	15.00000	-0.88138	14.755	-0.0040433	-2.0055	5.1141E-6
-1.00000	-2.00000	15.00000	-1.1469	14.755	-0.0087301	-2.7327	6.9187E-6
0.00000	-2.00000	15.00000	-1.4437	14.755	-0.017281	-3.6980	9.2779E-6
1.00000	-2.00000	15.00000	-1.7403	14.755	-0.025832	-4.6616	11.633E-6
2.00000	-2.00000	15.00000	-2.0052	14.755	-0.030517	-5.3837	13.424E-6
3.00000	-2.00000	15.00000	-2.2274	14.755	-0.032557	-5.8656	14.637E-6
4.00000	-2.00000	15.00000	-2.4088	14.755	-0.033464	-6.1855	15.448E-6
5.00000	-2.00000	15.00000	-2.5554	14.755	-0.033903	-6.4022	16.001E-6
6.00000	-2.00000	15.00000	-2.6728	14.755	-0.034133	-6.5509	16.381E-6
7.00000	-2.00000	15.00000	-2.7662	14.755	-0.034260	-6.6521	16.640E-6
8.00000	-2.00000	15.00000	-2.8395	14.755	-0.034330	-6.7177	16.808E-6
9.00000	-2.00000	15.00000	-2.8962	14.755	-0.034366	-6.7547	16.903E-6
10.00000	-2.00000	15.00000	-2.9387	14.755	-0.034377	-6.7666	16.934E-6
11.00000	-2.00000	15.00000	-2.9691	14.755	-0.034366	-6.7547	16.903E-6
12.00000	-2.00000	15.00000	-2.9890	14.755	-0.034330	-6.7177	16.808E-6
13.00000	-2.00000	15.00000	-2.9994	14.755	-0.034260	-6.6521	16.640E-6
14.00000	-2.00000	15.00000	-3.0012	14.755	-0.034133	-6.5509	16.381E-6
15.00000	-2.00000	15.00000	-2.9949	14.755	-0.033903	-6.4022	16.001E-6
16.00000	-2.00000	15.00000	-2.9806	14.755	-0.033464	-6.1855	15.448E-6
17.00000	-2.00000	15.00000	-2.9583	14.755	-0.032557	-5.8656	14.637E-6
18.00000	-2.00000	15.00000	-2.9273	14.755	-0.030517	-5.3837	13.424E-6
19.00000	-2.00000	15.00000	-2.8873	14.755	-0.025832	-4.6616	11.633E-6
20.00000	-2.00000	15.00000	-2.8390	14.755	-0.017281	-3.6980	9.2779E-6
21.00000	-2.00000	15.00000	-2.7858	14.755	-0.0087301	-2.7327	6.9187E-6
22.00000	-2.00000	15.00000	-2.7311	14.755	-0.0040433	-2.0055	5.1141E-6
23.00000	-2.00000	15.00000	-2.6750	14.755	-0.0020016	-1.5148	3.8791E-6
24.00000	-2.00000	15.00000	-2.6157	14.755	-0.0010910	-1.1823	3.0350E-6
25.00000	-2.00000	15.00000	-2.5511	14.755	-647.03E-6	-0.94884	2.4392E-6
26.00000	-2.00000	15.00000	-2.4787	14.755	-410.36E-6	-0.77858	2.0034E-6
27.00000	-2.00000	15.00000	-2.3956	14.755	-274.38E-6	-0.65032	1.6744E-6
28.00000	-2.00000	15.00000	-2.2984	14.755	-191.32E-6	-0.55105	1.4195E-6
29.00000	-2.00000	15.00000	-2.1828	14.755	-137.99E-6	-0.47250	1.2175E-6
30.00000	-2.00000	15.00000	-2.0439	14.755	-102.32E-6	-0.40918	1.0546E-6
31.00000	-2.00000	15.00000	-1.8762	14.755	-77.641E-6	-0.35733	0.0
32.00000	-2.00000	15.00000	-1.6741	14.755	-60.065E-6	-0.31433	0.0
33.00000	-2.00000	15.00000	-1.4359	14.755	-47.242E-6	-0.27829	0.0
34.00000	-2.00000	15.00000	-1.1714	14.755	-37.690E-6	-0.24770	0.0
35.00000	-2.00000	15.00000	-0.90809	14.755	-30.444E-6	-0.22160	0.0
36.00000	-2.00000	15.00000	-0.67338	14.755	-24.861E-6	-0.19913	0.0
37.00000	-2.00000	15.00000	-0.47722	14.755	-20.499E-6	-0.17966	0.0
38.00000	-2.00000	15.00000	-0.31783	14.755	-17.049E-6	-0.16270	0.0
39.00000	-2.00000	15.00000	-0.18989	14.755	-14.290E-6	-0.14783	0.0
40.00000	-2.00000	15.00000	-0.087895	14.755	-12.061E-6	-0.13474	0.0
41.00000	-2.00000	15.00000	-0.0070155	14.755	-10.245E-6	-0.12316	0.0
42.00000	-2.00000	15.00000	0.056750	14.755	-8.7537E-6	-0.11288	0.0
43.00000	-2.00000	15.00000	0.10666	14.755	-7.5194E-6	-0.10377	0.0
44.00000	-2.00000	15.00000	0.14534	14.755	-6.4911E-6	-0.095518	0.0
45.00000	-2.00000	15.00000	0.17494	14.755	-5.6292E-6	-0.088162	0.0
46.00000	-2.00000	15.00000	0.19715	14.755	-4.9025E-6	-0.081541	0.0
47.00000	-2.00000	15.00000	0.21340	14.755	-4.2867E-6	-0.075566	0.0
48.00000	-2.00000	15.00000	0.22480	14.755	-3.7622E-6	-0.070159	0.0
49.00000	-2.00000	15.00000	0.23230	14.755	-3.3135E-6	-0.065253	0.0
50.00000	-2.00000	15.00000	0.23664	14.755	-2.9278E-6	-0.060791	0.0
51.00000	-2.00000	15.00000	0.23846	14.755	-2.5951E-6	-0.056726	0.0
52.00000	-2.00000	15.00000	0.23825	14.755	-2.3070E-6	-0.053012	0.0
53.00000	-2.00000	15.00000	0.23644	14.755	-2.0566E-6	-0.049613	0.0
54.00000	-2.00000	15.00000	0.23337	14.755	-1.8382E-6	-0.046499	0.0
55.00000	-2.00000	15.00000	0.22932	14.755	-1.6471E-6	-0.043637	0.0
-25.00000	-1.00000	15.00000	0.20607	14.755	-5.9107E-6	-0.090794	0.0
-24.00000	-1.00000	15.00000	0.21072	14.755	-6.8325E-6	-0.098515	0.0
-23.00000	-1.00000	15.00000	0.21482	14.755	-7.9360E-6	-0.10714	0.0
-22.00000	-1.00000	15.00000	0.21821	14.755	-9.2653E-6	-0.11681	0.0
-21.00000	-1.00000	15.00000	0.22067	14.755	-10.878E-6	-0.12768	0.0
-20.00000	-1.00000	15.00000	0.22195	14.755	-12.850E-6	-0.13997	0.0
-19.00000	-1.00000	15.00000	0.22174	14.755	-15.282E-6	-0.15391	0.0
-18.00000	-1.00000	15.00000	0.21967	14.755	-18.310E-6	-0.16979	0.0
-17.00000	-1.00000	15.00000	0.21529	14.755	-22.118E-6	-0.18800	0.0
-16.00000	-1.00000	15.00000	0.20804	14.755	-26.964E-6	-0.20898	0.0
-15.00000	-1.00000	15.00000	0.19727	14.755	-33.214E-6	-0.23332	0.0
-14.00000	-1.00000	15.00000	0.18215	14.755	-41.396E-6	-0.26176	0.0
-13.00000	-1.00000	15.00000	0.16170	14.755	-52.291E-6	-0.29527	0.0
-12.00000	-1.00000	15.00000	0.13468	14.755	-67.092E-6	-0.33514	0.0
-11.00000	-1.00000	15.00000	0.099586	14.755	-87.668E-6	-0.38309	0.0
-10.00000	-1.00000	15.00000	0.054554	14.755	-117.07E-6	-0.44151	1.1378E-6
-9.00000	-1.00000	15.00000	-0.0027543	14.755	-160.46E-6	-0.51380	1.3238E-6
-8.00000	-1.00000	15.00000	-0.075282	14.755	-227.13E-6	-0.60492	1.5580E-6
-7.00000	-1.00000	15.00000	-0.16677	14.755	-334.71E-6	-0.72252	1.8598E-6
-6.00000	-1.00000	15.00000	-0.28207	14.755	-519.59E-6	-0.87869	2.2601E-6
-5.00000	-1.00000	15.00000	-0.42751	14.755	-864.39E-6	-1.0941	2.8109E-6
-4.00000	-1.00000	15.00000	-0.61167	14.755	-0.0015830	-1.4068	3.6069E-6
-3.00000	-1.00000	15.00000	-0.84639	14.755	-0.0033359	-1.8942	4.8378E-6
-2.00000	-1.00000	15.00000	-1.1485	14.755	-0.0087307	-2.7361	6.9273E-6
-1.00000	-1.00000	15.00000	-1.5406	14.755	-0.031720	-4.4074	10.885E-6
0.00000	-1.00000	15.00000	-2.0282	14.755	-0.13133	-7.7547	17.983E-6
1.00000	-1.00000	15.00000	-2.5156	14.755	-0.23095	-11.100	25.076E-6
2.00000	-1.00000	15.00000	-2.9070	14.755	-0.25993	-12.760	29.019E-6
3.00000	-1.00000	15.00000	-3.2080	14.755	-0.25933	-13.598	31.084E-6
4.00000	-1.00000	15.00000	-3.4411	14.755	-0.26107	-14.072	32.280E-6
5.00000	-1.00000	15.00000	-3.6230	14.755	-0.26179	-14.366	33.029E-6
6.00000	-1.00000	15.00000	-3.7654	14.755	-0.26213	-14.558	33.518E-6
7.00000	-1.00000	15.00000	-3.8768	14.755	-0.26230	-14.684	33.842E-6
8.00000	-1.00000	15.00000	-3.9633	14.755	-0.26239	-14.765	34.047E-6
9.00000	-1.00000	15.00000	-4.0294	14.755	-0.26244	-14.809	34.162E-6
10.00000	-1.00000	15.00000	-4.0788	14.755	-0.26245	-14.824	34.199E-6
11.00000	-1.00000	15.00000	-4.1139	14.755	-0.26244	-14.809	34.162E-6
12.00000	-1.00000	15.00000	-4.1366	14.755	-0.26239	-14.765	34.047E-6
13.00000	-1.00000	15.00000	-4.1485	14.755	-0.26230	-14.684	33.842E-6
14.00000	-1.00000	15.00000	-4.1503	14.755	-0.26213	-14.558	33.518E-6
15.00000	-1.00000	15.00000	-4.1425	14.755	-0.26179	-14.366	33.029E-6
16.00000	-1.00000	15.00000	-4.1251	14.755	-0.26107	-14.072	32.280E-6
17.00000	-1.00000	15.00000	-4.0973	14.755	-0.25993	-13.598	31.084E-6
18.00000	-1.00000	15.00000	-4.0572	14.755	-0.25933	-12.766	29.019E-6
19.00000	-1.00000	15.00000	-4.0004	14.755	-0.23095	-11.100	25.076E-6
20.00000	-1.00000	15.00000	-3.9224	14.755	-0.13133	-7.7547	17.983E-6
21.00000	-1.00000	15.00000	-3.8389	14.755	-0.031720	-4.4074	10.885E-6
22.00000	-1.00000	15.00000	-3.7653	14.755	-0.0087307	-2.7361	6.9273E-6
23.00000	-1.00000	15.00000	-3.6964	14.755	-0.0033359	-1.8942	4.8378E-6
24.00000	-1.00000	15.00000	-3.6264	14.755	-0.0015830	-1.4068	3.6069E-6
25.00000	-1.00000	15.00000	-3.5510	14.755	-864.39E-6	-1.0941	2.8109E-6
26.00000	-1.00000	15.00000	-3.4666	14.755	-519.59E-6	-0.87869	2.2601E-6
27.00000	-1.00000	15.00000	-3.3692	14.755	-334.71E-6	-0.72252	1.8598E-6
28.00000	-1.00000	15.00000	-3.2538	14.755	-227.13E-6	-0.60494	1.5580E-6
29.00000	-1.00000	15.00000	-3.1144	14.755	-160.46E-6	-0.51380	1.3238E-6
30.00000	-1.00000	15.00					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
42.00000	-1.00000	15.00000	0.023095	14.755	-9.2653E-6	-0.11691	0.0
43.00000	-1.00000	15.00000	0.081919	14.755	-7.9360E-6	-0.10714	0.0
44.00000	-1.00000	15.00000	0.12731	14.755	-6.8325E-6	-0.098515	0.0
45.00000	-1.00000	15.00000	0.16198	14.755	-5.9107E-6	-0.090794	0.0
46.00000	-1.00000	15.00000	0.18806	14.755	-5.1360E-6	-0.083861	0.0
47.00000	-1.00000	15.00000	0.20725	14.755	-4.4813E-6	-0.077616	0.0
48.00000	-1.00000	15.00000	0.22089	14.755	-3.9252E-6	-0.071975	0.0
49.00000	-1.00000	15.00000	0.23010	14.755	-3.4506E-6	-0.066868	0.0
50.00000	-1.00000	15.00000	0.23573	14.755	-3.0437E-6	-0.062231	0.0
51.00000	-1.00000	15.00000	0.23852	14.755	-2.6935E-6	-0.058012	0.0
52.00000	-1.00000	15.00000	0.23903	14.755	-2.3908E-6	-0.054164	0.0
53.00000	-1.00000	15.00000	0.23775	14.755	-2.1282E-6	-0.050648	0.0
54.00000	-1.00000	15.00000	0.23506	14.755	-1.8997E-6	-0.047429	0.0
55.00000	-1.00000	15.00000	0.23128	14.755	-1.7000E-6	-0.044475	0.0
-25.00000	0.00000	15.00000	0.20781	14.755	-6.1875E-6	-0.093348	0.0
-24.00000	0.00000	15.00000	0.21236	14.755	-7.1689E-6	-0.10143	0.0
-23.00000	0.00000	15.00000	0.21630	14.755	-8.3473E-6	-0.11047	0.0
-22.00000	0.00000	15.00000	0.21945	14.755	-9.7716E-6	-0.12064	0.0
-21.00000	0.00000	15.00000	0.22159	14.755	-11.506E-6	-0.13210	0.0
-20.00000	0.00000	15.00000	0.22242	14.755	-13.635E-6	-0.14509	0.0
-19.00000	0.00000	15.00000	0.22162	14.755	-16.271E-6	-0.15987	0.0
-18.00000	0.00000	15.00000	0.21877	14.755	-19.569E-6	-0.17677	0.0
-17.00000	0.00000	15.00000	0.21336	14.755	-23.738E-6	-0.19621	0.0
-16.00000	0.00000	15.00000	0.20478	14.755	-29.076E-6	-0.21871	0.0
-15.00000	0.00000	15.00000	0.19228	14.755	-36.005E-6	-0.24493	0.0
-14.00000	0.00000	15.00000	0.17494	14.755	-45.143E-6	-0.27573	0.0
-13.00000	0.00000	15.00000	0.15160	14.755	-57.417E-6	-0.31223	0.0
-12.00000	0.00000	15.00000	0.12086	14.755	-74.257E-6	-0.35595	0.0
-11.00000	0.00000	15.00000	0.080961	14.755	-97.945E-6	-0.40894	1.0541E-6
-10.00000	0.00000	15.00000	0.029677	14.755	-132.27E-6	-0.47410	1.2217E-6
-9.00000	0.00000	15.00000	-0.035806	14.755	-183.83E-6	-0.55565	1.4314E-6
-8.00000	0.00000	15.00000	-0.11911	14.755	-264.77E-6	-0.65988	1.6992E-6
-7.00000	0.00000	15.00000	-0.22498	14.755	-399.13E-6	-0.79676	2.0505E-6
-6.00000	0.00000	15.00000	-0.35976	14.755	-638.91E-6	-0.98286	2.5271E-6
-5.00000	0.00000	15.00000	-0.53223	14.755	-0.0011107	-1.2481	3.2044E-6
-4.00000	0.00000	15.00000	-0.75512	14.755	-0.0021771	-1.6521	4.2307E-6
-3.00000	0.00000	15.00000	-1.0483	14.755	-0.0051610	-2.3336	5.9438E-6
-2.00000	0.00000	15.00000	-1.4471	14.755	-0.017283	-3.7055	9.2971E-6
-1.00000	0.00000	15.00000	-2.0300	14.755	-0.13133	-7.7589	17.994E-6
0.00000	0.00000	15.00000	-3.1282	14.755	-22.500	-53.468	-210.46E-6
1.00000	0.00000	15.00000	-4.2262	14.755	-44.869	-99.175	-438.89E-6
2.00000	0.00000	15.00000	-4.8083	14.755	-44.983	-103.22	-430.23E-6
3.00000	0.00000	15.00000	-5.2058	14.755	-44.995	-104.58	-426.90E-6
4.00000	0.00000	15.00000	-5.4971	14.755	-44.998	-105.25	-425.23E-6
5.00000	0.00000	15.00000	-5.7174	14.755	-44.999	-105.64	-424.25E-6
6.00000	0.00000	15.00000	-5.8864	14.755	-44.999	-105.87	-423.64E-6
7.00000	0.00000	15.00000	-6.0166	14.755	-45.000	-106.03	-423.25E-6
8.00000	0.00000	15.00000	-6.1167	14.755	-45.000	-106.12	-423.00E-6
9.00000	0.00000	15.00000	-6.1927	14.755	-45.000	-106.18	-422.87E-6
10.00000	0.00000	15.00000	-6.2491	14.755	-45.000	-106.19	-422.82E-6
11.00000	0.00000	15.00000	-6.2889	14.755	-45.000	-106.19	-422.87E-6
12.00000	0.00000	15.00000	-6.3147	14.755	-45.000	-106.12	-423.00E-6
13.00000	0.00000	15.00000	-6.3279	14.755	-45.000	-106.03	-423.25E-6
14.00000	0.00000	15.00000	-6.3296	14.755	-44.999	-105.87	-423.64E-6
15.00000	0.00000	15.00000	-6.3203	14.755	-44.999	-105.64	-424.25E-6
16.00000	0.00000	15.00000	-6.2295	14.755	-44.995	-105.25	-425.23E-6
17.00000	0.00000	15.00000	-6.2656	14.755	-44.995	-104.58	-426.90E-6
18.00000	0.00000	15.00000	-6.2139	14.755	-44.983	-103.22	-430.23E-6
19.00000	0.00000	15.00000	-6.1281	14.755	-44.869	-99.175	-438.89E-6
20.00000	0.00000	15.00000	-6.0096	14.755	-22.500	-53.468	-210.46E-6
21.00000	0.00000	15.00000	-5.8065	14.755	-0.13133	-7.7589	17.994E-6
22.00000	0.00000	15.00000	-5.7802	14.755	-0.017283	-3.7055	9.2971E-6
23.00000	0.00000	15.00000	-5.6961	14.755	-0.0051610	-2.3336	5.9438E-6
24.00000	0.00000	15.00000	-5.6143	14.755	-0.0021771	-1.6521	4.2307E-6
25.00000	0.00000	15.00000	-5.5277	14.755	-0.0011107	-1.2481	3.2044E-6
26.00000	0.00000	15.00000	-5.4309	14.755	-638.91E-6	-0.98286	2.5271E-6
27.00000	0.00000	15.00000	-5.3186	14.755	-399.13E-6	-0.79676	2.0505E-6
28.00000	0.00000	15.00000	-5.1842	14.755	-264.77E-6	-0.65988	1.6992E-6
29.00000	0.00000	15.00000	-5.0194	14.755	-183.83E-6	-0.55565	1.4314E-6
30.00000	0.00000	15.00000	-4.8121	14.755	-132.27E-6	-0.47410	1.2217E-6
31.00000	0.00000	15.00000	-4.5442	14.755	-97.945E-6	-0.40894	1.0541E-6
32.00000	0.00000	15.00000	-4.1851	14.755	-74.257E-6	-0.35595	0.0
33.00000	0.00000	15.00000	-3.6726	14.755	-57.417E-6	-0.31223	0.0
34.00000	0.00000	15.00000	-2.6730	14.755	-45.143E-6	-0.27573	0.0
35.00000	0.00000	15.00000	-1.6748	14.755	-36.005E-6	-0.24493	0.0
36.00000	0.00000	15.00000	-1.1664	14.755	-29.076E-6	-0.21871	0.0
37.00000	0.00000	15.00000	-0.81439	14.755	-23.738E-6	-0.19621	0.0
38.00000	0.00000	15.00000	-0.55652	14.755	-19.569E-6	-0.17677	0.0
39.00000	0.00000	15.00000	-0.36237	14.755	-16.271E-6	-0.15987	0.0
40.00000	0.00000	15.00000	-0.21405	14.755	-13.635E-6	-0.14509	0.0
41.00000	0.00000	15.00000	-0.099866	14.755	-11.506E-6	-0.13210	0.0
42.00000	0.00000	15.00000	-0.011697	14.755	-9.7716E-6	-0.12064	0.0
43.00000	0.00000	15.00000	0.056344	14.755	-8.3473E-6	-0.11047	0.0
44.00000	0.00000	15.00000	0.10864	14.755	-7.1689E-6	-0.10143	0.0
45.00000	0.00000	15.00000	0.14852	14.755	-6.1875E-6	-0.093348	0.0
46.00000	0.00000	15.00000	0.17855	14.755	-5.3651E-6	-0.086107	0.0
47.00000	0.00000	15.00000	0.20074	14.755	-4.6719E-6	-0.079599	0.0
48.00000	0.00000	15.00000	0.21668	14.755	-4.0846E-6	-0.073730	0.0
49.00000	0.00000	15.00000	0.22762	14.755	-3.5845E-6	-0.068426	0.0
50.00000	0.00000	15.00000	0.23457	14.755	-3.1567E-6	-0.063617	0.0
51.00000	0.00000	15.00000	0.23835	14.755	-2.7892E-6	-0.059245	0.0
52.00000	0.00000	15.00000	0.23960	14.755	-2.4722E-6	-0.055271	0.0
53.00000	0.00000	15.00000	0.23886	14.755	-2.1977E-6	-0.051640	0.0
54.00000	0.00000	15.00000	0.23656	14.755	-1.9592E-6	-0.048320	0.0
55.00000	0.00000	15.00000	0.23305	14.755	-1.7512E-6	-0.045278	0.0
-25.00000	1.00000	15.00000	0.20941	14.755	-6.4571E-6	-0.095805	0.0
-24.00000	1.00000	15.00000	0.21385	14.755	-7.4970E-6	-0.10423	0.0
-23.00000	1.00000	15.00000	0.21763	14.755	-8.7491E-6	-0.11369	0.0
-22.00000	1.00000	15.00000	0.22055	14.755	-10.267E-6	-0.12434	0.0
-21.00000	1.00000	15.00000	0.22235	14.755	-12.121E-6	-0.13638	0.0
-20.00000	1.00000	15.00000	0.22274	14.755	-14.405E-6	-0.15004	0.0
-19.00000	1.00000	15.00000	0.22135	14.755	-17.244E-6	-0.16566	0.0
-18.00000	1.00000	15.00000	0.21771	14.755	-20.810E-6	-0.18356	0.0
-17.00000	1.00000	15.00000	0.21128	14.755	-25.338E-6	-0.20422	0.0
-16.00000	1.00000	15.00000	0.20137	14.755	-31.164E-6	-0.22822	0.0
-15.00000	1.00000	15.00000	0.18714	14.755	-38.768E-6	-0.25630	0.0
-14.00000	1.00000	15.00000	0.16757	14.755	-48.859E-6	-0.28943	0.0
-13.00000	1.00000	15.00000	0.14137	14.755	-62.507E-6	-0.32889	0.0
-12.00000	1.00000	15.00000	0.10692	14.755	-81.382E-6	-0.37643	0.0
-11.00000	1.00000	15.00000	0.062221	14.755	-108.18E-6	-0.43443	1.1197E-6
-10.00000	1.00000	15.00000	0.0046979	14.755	-147.43E-6	-0.50639	1.3046E-6
-9.00000	1.00000	15.00000	-0.068944	14.755	-207.14E-6	-0.59707	1.5380E-6
-8.00000	1.00000	15.00000	-0.16301	14.755	-302.35E-6	-0.71438	1.8393E-6
-7.00000	1.00000	15.00000	-0.28324	14.755	-463.48E-6	-0.87051	2.2398E-6
-6.00000	1.00000	15.00000	-0.43748	14.755	-758.15E-6	-1.0865	2.7928E-6
-5.00000	1.00000	15.00000	-0.63695	14.755	-0.0013569	-1.4011	3.5946E-6
-4.00000	1.00000	15.00000	-0.89853	14.755	-0.0027710	-1.8966	4.8528E-6
-3.00000	1.00000	15.00000	-1.2502	14.755	-0.0069859	-2.7724	7.0481E-6
-2.00000	1.00000	15.00000	-1.7457	14.755	-0.025835	-4.6742	11.665E-6
-1.00000	1						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Oasys

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.

Sheet No.

Rev.

J15249

Drg. Ref.

Made byMP

Date

Checked

Name	Location	Displacement	Stresses				
X	Y	Z[Level]	Calc Level	Vert Stress	Sum Princ	Vert Strain	
[m]	[m]	[mOD]	[mm]	[kN/m ²]	[kN/m ²]	[-]	
10.00000	1.00000	15.00000	-8.4190	14.755	-89.737	-197.56	-879.85E-6
11.00000	1.00000	15.00000	-8.4636	14.755	-89.737	-197.54	-879.90E-6
12.00000	1.00000	15.00000	-8.4923	14.755	-89.737	-197.48	-880.05E-6
13.00000	1.00000	15.00000	-8.5070	14.755	-89.737	-197.37	-880.34E-6
14.00000	1.00000	15.00000	-8.5086	14.755	-89.736	-197.19	-880.80E-6
15.00000	1.00000	15.00000	-8.4977	14.755	-89.736	-196.90	-881.53E-6
16.00000	1.00000	15.00000	-8.4735	14.755	-89.734	-196.43	-882.73E-6
17.00000	1.00000	15.00000	-8.4335	14.755	-89.730	-195.57	-884.89E-6
18.00000	1.00000	15.00000	-8.3703	14.755	-89.711	-193.68	-889.48E-6
19.00000	1.00000	15.00000	-8.2554	14.755	-89.506	-187.25	-902.90E-6
20.00000	1.00000	15.00000	-8.0965	14.755	-44.869	-99.181	-438.89E-6
21.00000	1.00000	15.00000	-7.9307	14.755	-0.23095	-11.110	25.100E-6
22.00000	1.00000	15.00000	-7.7948	14.755	-0.025835	-4.6742	11.665E-6
23.00000	1.00000	15.00000	-7.6954	14.755	-0.0069859	-2.7724	7.0481E-6
24.00000	1.00000	15.00000	-7.6021	14.755	-0.0027710	-1.8966	4.8528E-6
25.00000	1.00000	15.00000	-7.5042	14.755	-0.0013569	-1.4014	3.5964E-6
26.00000	1.00000	15.00000	-7.3950	14.755	-758.15E-6	-1.0865	2.7928E-6
27.00000	1.00000	15.00000	-7.2678	14.755	-463.48E-6	-0.87051	2.2398E-6
28.00000	1.00000	15.00000	-7.1145	14.755	-302.35E-6	-0.71438	1.8393E-6
29.00000	1.00000	15.00000	-6.9244	14.755	-207.14E-6	-0.59707	1.5380E-6
30.00000	1.00000	15.00000	-6.6815	14.755	-147.43E-6	-0.50631	1.3046E-6
31.00000	1.00000	15.00000	-6.3606	14.755	-108.18E-6	-0.43443	1.1197E-6
32.00000	1.00000	15.00000	-5.9154	14.755	-81.382E-6	-0.37643	0.0
33.00000	1.00000	15.00000	-5.2397	14.755	-62.507E-6	-0.32889	0.0
34.00000	1.00000	15.00000	-3.6681	14.755	-48.859E-6	-0.28943	0.0
35.00000	1.00000	15.00000	-2.0980	14.755	-38.768E-6	-0.25630	0.0
36.00000	1.00000	15.00000	-1.4268	14.755	-31.164E-6	-0.22822	0.0
37.00000	1.00000	15.00000	-0.98926	14.755	-25.338E-6	-0.20422	0.0
38.00000	1.00000	15.00000	-0.67923	14.755	-20.810E-6	-0.18356	0.0
39.00000	1.00000	15.00000	-0.45064	14.755	-17.244E-6	-0.16566	0.0
40.00000	1.00000	15.00000	-0.27846	14.755	-14.405E-6	-0.15000	0.0
41.00000	1.00000	15.00000	-0.14724	14.755	-12.121E-6	-0.13638	0.0
42.00000	1.00000	15.00000	-0.046641	14.755	-10.267E-6	-0.12434	0.0
43.00000	1.00000	15.00000	0.030606	14.755	-8.7491E-6	-0.11369	0.0
44.00000	1.00000	15.00000	0.089794	14.755	-7.4970E-6	-0.10423	0.0
45.00000	1.00000	15.00000	0.13487	14.755	-6.4571E-6	-0.095805	0.0
46.00000	1.00000	15.00000	0.16885	14.755	-5.5878E-6	-0.088266	0.0
47.00000	1.00000	15.00000	0.19405	14.755	-4.8570E-6	-0.081501	0.0
48.00000	1.00000	15.00000	0.21227	14.755	-4.2391E-6	-0.075412	0.0
49.00000	1.00000	15.00000	0.22495	14.755	-3.7141E-6	-0.069916	0.0
50.00000	1.00000	15.00000	0.23222	14.755	-3.2659E-6	-0.064943	0.0
51.00000	1.00000	15.00000	0.23799	14.755	-2.8816E-6	-0.060430	0.0
52.00000	1.00000	15.00000	0.23998	14.755	-2.5507E-6	-0.056326	0.0
53.00000	1.00000	15.00000	0.23979	14.755	-2.2646E-6	-0.052586	0.0
54.00000	1.00000	15.00000	0.23789	14.755	-2.0165E-6	-0.049169	0.0
55.00000	1.00000	15.00000	0.23465	14.755	-1.8004E-6	-0.046042	0.0
-25.00000	2.00000	15.00000	0.21087	14.755	-6.7167E-6	-0.098147	0.0
-24.00000	2.00000	15.00000	0.21520	14.755	-7.8135E-6	-0.10691	0.0
-23.00000	2.00000	15.00000	0.21882	14.755	-9.1372E-6	-0.11676	0.0
-22.00000	2.00000	15.00000	0.22150	14.755	-10.746E-6	-0.12788	0.0
-21.00000	2.00000	15.00000	0.22298	14.755	-12.717E-6	-0.14048	0.0
-20.00000	2.00000	15.00000	0.22293	14.755	-15.152E-6	-0.15482	0.0
-19.00000	2.00000	15.00000	0.22095	14.755	-18.189E-6	-0.17123	0.0
-18.00000	2.00000	15.00000	0.21654	14.755	-22.015E-6	-0.19010	0.0
-17.00000	2.00000	15.00000	0.20910	14.755	-26.893E-6	-0.21194	0.0
-16.00000	2.00000	15.00000	0.19789	14.755	-33.195E-6	-0.23739	0.0
-15.00000	2.00000	15.00000	0.18198	14.755	-41.456E-6	-0.26728	0.0
-14.00000	2.00000	15.00000	0.16023	14.755	-52.472E-6	-0.30268	0.0
-13.00000	2.00000	15.00000	0.13121	14.755	-67.451E-6	-0.34502	0.0
-12.00000	2.00000	15.00000	0.093151	14.755	-88.290E-6	-0.39626	1.0215E-6
-11.00000	2.00000	15.00000	0.043774	14.755	-118.07E-6	-0.45912	1.1833E-6
-10.00000	2.00000	15.00000	-0.019813	14.755	-162.02E-6	-0.53748	1.3849E-6
-9.00000	2.00000	15.00000	-0.10136	14.755	-229.44E-6	-0.63711	1.6410E-6
-8.00000	2.00000	15.00000	-0.20581	14.755	-337.96E-6	-0.76689	1.9743E-6
-7.00000	2.00000	15.00000	-0.33982	14.755	-523.60E-6	-0.94122	2.4214E-6
-6.00000	2.00000	15.00000	-0.51260	14.755	-867.14E-6	-1.1850	3.0454E-6
-5.00000	2.00000	15.00000	-0.73743	14.755	-0.0015740	-1.5450	3.9637E-6
-4.00000	2.00000	15.00000	-1.0346	14.755	-0.0032627	-2.1193	5.4200E-6
-3.00000	2.00000	15.00000	-1.4381	14.755	-0.0083200	-3.1498	8.0017E-6
-2.00000	2.00000	15.00000	-2.0125	14.755	-0.030522	-5.4026	13.473E-6
-1.00000	2.00000	15.00000	-2.9127	14.755	-0.25394	-12.782	29.061E-6
0.00000	2.00000	15.00000	-4.8121	14.755	-44.983	-103.24	-430.20E-6
1.00000	2.00000	15.00000	-6.7113	14.755	-89.711	-193.69	-889.46E-6
2.00000	2.00000	15.00000	-7.6105	14.755	-89.935	-201.06	-873.89E-6
3.00000	2.00000	15.00000	-8.1833	14.755	-89.957	-203.30	-868.45E-6
4.00000	2.00000	15.00000	-8.5843	14.755	-89.962	-204.31	-865.91E-6
5.00000	2.00000	15.00000	-8.8782	14.755	-89.964	-204.86	-864.51E-6
6.00000	2.00000	15.00000	-9.0987	14.755	-89.964	-205.19	-863.67E-6
7.00000	2.00000	15.00000	-9.2658	14.755	-89.965	-205.40	-863.15E-6
8.00000	2.00000	15.00000	-9.3925	14.755	-89.965	-205.53	-862.82E-6
9.00000	2.00000	15.00000	-9.4878	14.755	-89.965	-205.59	-862.65E-6
10.00000	2.00000	15.00000	-9.5579	14.755	-89.965	-205.62	-862.59E-6
11.00000	2.00000	15.00000	-9.6072	14.755	-89.965	-205.59	-862.65E-6
12.00000	2.00000	15.00000	-9.6388	14.755	-89.965	-205.53	-862.82E-6
13.00000	2.00000	15.00000	-9.6548	14.755	-89.965	-205.40	-863.15E-6
14.00000	2.00000	15.00000	-9.6565	14.755	-89.965	-205.19	-863.67E-6
15.00000	2.00000	15.00000	-9.6441	14.755	-89.964	-204.86	-864.51E-6
16.00000	2.00000	15.00000	-9.6168	14.755	-89.962	-204.31	-865.91E-6
17.00000	2.00000	15.00000	-9.5715	14.755	-89.957	-203.30	-868.45E-6
18.00000	2.00000	15.00000	-9.4991	14.755	-89.935	-201.06	-873.89E-6
19.00000	2.00000	15.00000	-9.3674	14.755	-89.711	-193.69	-889.46E-6
20.00000	2.00000	15.00000	-9.1789	14.755	-44.983	-103.24	-430.20E-6
21.00000	2.00000	15.00000	-8.9828	14.755	-0.25394	-12.782	29.061E-6
22.00000	2.00000	15.00000	-8.8282	14.755	-0.030522	-5.4026	13.473E-6
23.00000	2.00000	15.00000	-8.7160	14.755	-0.0083200	-3.1498	8.0017E-6
24.00000	2.00000	15.00000	-8.6119	14.755	-0.0032627	-2.1193	5.4200E-6
25.00000	2.00000	15.00000	-8.5033	14.755	-0.0015740	-1.5450	3.9637E-6
26.00000	2.00000	15.00000	-8.3822	14.755	-867.14E-6	-1.1850	3.0454E-6
27.00000	2.00000	15.00000	-8.2407	14.755	-523.60E-6	-0.94122	2.4214E-6
28.00000	2.00000	15.00000	-8.0695	14.755	-337.96E-6	-0.76689	1.9743E-6
29.00000	2.00000	15.00000	-7.8955	14.755	-229.44E-6	-0.63711	1.6410E-6
30.00000	2.00000	15.00000	-7.5798	14.755	-162.02E-6	-0.53748	1.3849E-6
31.00000	2.00000	15.00000	-7.2119	14.755	-118.07E-6	-0.45912	1.1833E-6
32.00000	2.00000	15.00000	-6.6959	14.755	-88.290E-6	-0.39626	1.0215E-6
33.00000	2.00000	15.00000	-5.9091	14.755	-67.451E-6	-0.34502	0.0
34.00000	2.00000	15.00000	-4.17145	14.755	-52.472E-6	-0.30268	0.0
35.00000	2.00000	15.00000	-2.4416	14.755	-41.456E-6	-0.26728	0.0
36.00000	2.00000	15.00000	-1.6596	14.755	-33.195E-6	-0.23739	0.0
37.00000	2.00000	15.00000	-1.1518	14.755	-26.893E-6	-0.21194	0.0
38.00000	2.00000	15.00000	-0.79554	14.755	-22.015E-6	-0.19010	0.0
39.00000	2.00000	15.00000	-0.53526	14.755	-18.189E-6	-0.17123	0.0
40.00000	2.00000	15.00000	-0.34068	14.755	-15.152E-6	-0.15482	0.0
41.00000	2.00000	15.00000	-0.19326	14.755	-12.717E-6	-0.14048	0.0
42.00000	2.00000	15.00000	-0.080745	14.755	-10.746E-6	-0.12788	0.0
43.00000	2.00000	15.00000	0.0053827	14.755	-9.1372E-6	-0.11676	0.0
44.00000	2.00000	15.00000	0.071250	14.755	-7.8135E-6	-0.10691	0.0
45.00000	2.00000	15.00000	0.12139	14.755	-6.7167E-6	-0.098147	0.0
46.00000	2.00000	15.00000	0.15921	14.755	-5.8021E-6	-0.090320	0.0
47.00000	2.00000	15.00000	0.18734	14.755	-5.0347E-6	-0.083309	0.0
48.00000	2.00000	15.00000	0.20779	14.755	-4.3873E-6	-0.077009	5.4200E-6
49.00000	2.						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-22.00000	3.00000	15.00000	0.22232	14.755	-11.203E-6	-0.13123	0.0
-21.00000	3.00000	15.00000	0.22349	14.755	-13.286E-6	-0.14436	0.0
-20.00000	3.00000	15.00000	0.22301	14.755	-15.866E-6	-0.15934	0.0
-19.00000	3.00000	15.00000	0.22046	14.755	-19.091E-6	-0.17651	0.0
-18.00000	3.00000	15.00000	0.21531	14.755	-23.168E-6	-0.19631	0.0
-17.00000	3.00000	15.00000	0.20690	14.755	-28.380E-6	-0.21928	0.0
-16.00000	3.00000	15.00000	0.19443	14.755	-35.135E-6	-0.24613	0.0
-15.00000	3.00000	15.00000	0.17689	14.755	-44.021E-6	-0.27774	0.0
-14.00000	3.00000	15.00000	0.15305	14.755	-55.912E-6	-0.31530	0.0
-13.00000	3.00000	15.00000	0.12135	14.755	-72.145E-6	-0.36038	0.0
-12.00000	3.00000	15.00000	0.079836	14.755	-94.820E-6	-0.41514	1.0701E-6
-11.00000	3.00000	15.00000	0.026010	14.755	-127.36E-6	-0.48258	1.2437E-6
-10.00000	3.00000	15.00000	-0.043320	14.755	-175.60E-6	-0.56702	1.4609E-6
-9.00000	3.00000	15.00000	-0.13231	14.755	-249.93E-6	-0.67489	1.7382E-6
-8.00000	3.00000	15.00000	-0.24647	14.755	-370.12E-6	-0.81610	2.1008E-6
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-6.00000	3.00000	15.00000	-0.58287	14.755	-959.34E-6	-1.2749	3.2759E-6
-5.00000	3.00000	15.00000	-0.83032	14.755	-0.0017468	-1.6725	4.2900E-6
-4.00000	3.00000	15.00000	-1.1582	14.755	-0.0036169	-2.3083	5.9023E-6
-3.00000	3.00000	15.00000	-1.6039	14.755	-0.0091263	-3.4454	8.7522E-6
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-1.00000	3.00000	15.00000	-3.2157	14.755	-0.25933	-13.623	31.148E-6
0.00000	3.00000	15.00000	-5.2117	14.755	-44.995	-104.61	-426.85E-6
1.00000	3.00000	15.00000	-7.2073	14.755	-89.730	-195.59	-884.85E-6
2.00000	3.00000	15.00000	-8.1853	14.755	-89.957	-203.31	-868.42E-6
3.00000	3.00000	15.00000	-8.8163	14.755	-89.980	-205.74	-862.50E-6
4.00000	3.00000	15.00000	-9.2593	14.755	-89.986	-206.86	-859.70E-6
5.00000	3.00000	15.00000	-9.5835	14.755	-89.988	-207.47	-858.15E-6
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7.00000	3.00000	15.00000	-10.010	14.755	-89.989	-208.07	-856.64E-6
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13.00000	3.00000	15.00000	-10.434	14.755	-89.989	-208.07	-856.64E-6
14.00000	3.00000	15.00000	-10.436	14.755	-89.989	-207.84	-857.22E-6
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16.00000	3.00000	15.00000	-10.392	14.755	-89.986	-206.86	-859.70E-6
17.00000	3.00000	15.00000	-10.343	14.755	-89.980	-205.74	-862.50E-6
18.00000	3.00000	15.00000	-10.264	14.755	-89.957	-203.31	-868.42E-6
19.00000	3.00000	15.00000	-10.122	14.755	-89.730	-195.59	-884.85E-6
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21.00000	3.00000	15.00000	-9.7121	14.755	-0.25933	-13.623	31.148E-6
22.00000	3.00000	15.00000	-9.5458	14.755	-0.032563	-5.8924	14.7066E-6
23.00000	3.00000	15.00000	-9.4237	14.755	-0.0091263	-3.4454	8.7522E-6
24.00000	3.00000	15.00000	-9.3101	14.755	-0.0036169	-2.3083	5.9023E-6
25.00000	3.00000	15.00000	-9.1917	14.755	-0.0017468	-1.6725	4.2900E-6
26.00000	3.00000	15.00000	-9.0596	14.755	-959.34E-6	-1.2749	3.2759E-6
27.00000	3.00000	15.00000	-8.9049	14.755	-576.48E-6	-1.0068	2.5899E-6
28.00000	3.00000	15.00000	-8.7172	14.755	-370.12E-6	-0.81610	2.1008E-6
29.00000	3.00000	15.00000	-8.4820	14.755	-249.93E-6	-0.67489	1.7382E-6
30.00000	3.00000	15.00000	-8.1780	14.755	-175.60E-6	-0.56702	1.4609E-6
31.00000	3.00000	15.00000	-7.7717	14.755	-127.36E-6	-0.48258	1.2437E-6
32.00000	3.00000	15.00000	-7.2031	14.755	-94.820E-6	-0.41514	1.0701E-6
33.00000	3.00000	15.00000	-6.3457	14.755	-72.145E-6	-0.36038	0.0
34.00000	3.00000	15.00000	-4.5254	14.755	-55.912E-6	-0.31530	0.0
35.00000	3.00000	15.00000	-2.7069	14.755	-44.021E-6	-0.27774	0.0
36.00000	3.00000	15.00000	-1.8546	14.755	-35.135E-6	-0.24613	0.0
37.00000	3.00000	15.00000	-1.2947	14.755	-28.380E-6	-0.21928	0.0
38.00000	3.00000	15.00000	-9.9079	14.755	-23.168E-6	-0.19631	0.0
39.00000	3.00000	15.00000	-0.61327	14.755	-19.091E-6	-0.17651	0.0
40.00000	3.00000	15.00000	-0.39878	14.755	-15.866E-6	-0.15934	0.0
41.00000	3.00000	15.00000	-0.23663	14.755	-13.286E-6	-0.14436	0.0
42.00000	3.00000	15.00000	-0.11312	14.755	-11.203E-6	-0.13123	0.0
43.00000	3.00000	15.00000	-0.018703	14.755	-9.5721E-6	-0.11967	0.0
44.00000	3.00000	15.00000	0.053446	14.755	-8.1149E-6	-0.10944	0.0
45.00000	3.00000	15.00000	0.10837	14.755	-6.9638E-6	-0.10035	0.0
46.00000	3.00000	15.00000	0.14985	14.755	-6.0057E-6	-0.092256	0.0
47.00000	3.00000	15.00000	0.18077	14.755	-5.2035E-6	-0.085011	0.0
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49.00000	3.00000	15.00000	0.21939	14.755	-3.9559E-6	-0.072658	0.0
50.00000	3.00000	15.00000	0.23020	14.755	-3.4693E-6	-0.067376	0.0
51.00000	3.00000	15.00000	0.23689	14.755	-3.0533E-6	-0.062596	0.0
52.00000	3.00000	15.00000	0.24032	14.755	-2.6963E-6	-0.058259	0.0
53.00000	3.00000	15.00000	0.24119	14.755	-2.3886E-6	-0.054319	0.0
54.00000	3.00000	15.00000	0.24006	14.755	-2.1223E-6	-0.050719	0.0
55.00000	3.00000	15.00000	0.23738	14.755	-1.8911E-6	-0.047434	0.0
-25.00000	4.00000	15.00000	0.21338	14.755	-7.1958E-6	-0.10241	0.0
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-13.00000	4.00000	15.00000	0.10198	14.755	-76.503E-6	-0.37478	0.0
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-10.00000	4.00000	15.00000	-0.065362	14.755	-187.85E-6	-0.59444	1.5315E-6
-9.00000	4.00000	15.00000	-0.16118	14.755	-268.10E-6	-0.70972	1.8278E-6
-8.00000	4.00000	15.00000	-0.28414	14.755	-397.95E-6	-0.86103	2.2164E-6
-7.00000	4.00000	15.00000	-0.44228	14.755	-620.75E-6	-1.0658	2.7416E-6
-6.00000	4.00000	15.00000	-0.64674	14.755	-0.0010329	-1.3541	3.4792E-6
-5.00000	4.00000	15.00000	-0.91351	14.755	-0.0018752	-1.7814	4.5691E-6
-4.00000	4.00000	15.00000	-1.2667	14.755	-0.0038534	-2.4621	6.2956E-6
-3.00000	4.00000	15.00000	-1.7452	14.755	-0.009584	-3.6684	9.3208E-6
-2.00000	4.00000	15.00000	-2.4201	14.755	-0.033473	-6.2219	15.542E-6
-1.00000	4.00000	15.00000	-3.4507	14.755	-0.26108	-14.107	32.370E-6
0.00000	4.00000	15.00000	-5.5050	14.755	-44.998	-105.28	-425.14E-6
1.00000	4.00000	15.00000	-7.5588	14.755	-89.734	-196.46	-882.66E-6
2.00000	4.00000	15.00000	-8.5883	14.755	-89.962	-204.33	-865.86E-6
3.00000	4.00000	15.00000	-9.2613	14.755	-89.986	-206.87	-859.67E-6
4.00000	4.00000	15.00000	-9.7369	14.755	-89.992	-208.06	-856.69E-6
5.00000	4.00000	15.00000	-10.086	14.755	-89.994	-208.72	-855.03E-6
6.00000	4.00000	15.00000	-10.348	14.755	-89.994	-209.11	-854.03E-6
7.00000	4.00000	15.00000	-10.545	14.755	-89.995	-209.33	-853.40E-6
8.00000	4.00000	15.00000	-10.695	14.755	-89.995	-209.51	-853.02E-6
9.00000	4.00000	15.00000	-10.807	14.755	-89.995	-209.59	-852.81E-6
10.00000	4.00000	15.00000	-10.889	14.755	-89.995	-209.61	-852.74E-6
11.00000	4.00000	15.00000	-10.947	14.755	-89.995	-209.59	-852.81E-6
12.00000	4.00000	15.00000	-10.984	14.755	-89.995	-209.51	-853.02E-6
13.00000	4.00000	15.00000	-11.003	14.755	-89.995	-209.36	-853.40E-6
14.00000	4.00000	15.00000	-11.004	14.755	-89.994	-209.11	-854.03E-6
15.00000	4.00000	15.00000	-10.990	14.755	-89.994	-208.72	-855.03E-6
16.00000							

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X	Location	Displacement	Stresses			
	Y	Z [Level]	Z	Calc Level	Vert Stress	Sum Princ	Vert Strain
	[m]	[mOD]	[mm]	[mOD]	[kN/m ²]	[kN/m ²]	[-]
	27.00000	4.00000	15.00000	-9.3850	14.755	-620.75E-6	-1.0658
	28.00000	4.00000	15.00000	-9.1829	14.755	-397.95E-6	-0.86103
	29.00000	4.00000	15.00000	-8.9294	14.755	-268.10E-6	-0.70972
	30.00000	4.00000	15.00000	-8.6022	14.755	-187.85E-6	-0.59444
	31.00000	4.00000	15.00000	-8.1659	14.755	-135.85E-6	-0.50445
	32.00000	4.00000	15.00000	-7.5592	14.755	-100.84E-6	-0.43279
	33.00000	4.00000	15.00000	-6.6552	14.755	-76.503E-6	-0.37477
	34.00000	4.00000	15.00000	-4.7827	14.755	-59.122E-6	-0.32713
	35.00000	4.00000	15.00000	-2.9120	14.755	-46.422E-6	-0.28755
	36.00000	4.00000	15.00000	-2.0135	14.755	-36.956E-6	-0.25432
	37.00000	4.00000	15.00000	-1.4159	14.755	-29.778E-6	-0.22617
	38.00000	4.00000	15.00000	-0.99271	14.755	-24.252E-6	-0.20213
	39.00000	4.00000	15.00000	-0.68284	14.755	-19.941E-6	-0.18146
	40.00000	4.00000	15.00000	-0.45139	14.755	-16.538E-6	-0.16357
	41.00000	4.00000	15.00000	-0.27637	14.755	-13.822E-6	-0.14800
	42.00000	4.00000	15.00000	-0.14304	14.755	-11.634E-6	-0.13437
	43.00000	4.00000	15.00000	-0.041133	14.755	-9.8552E-6	-0.12238
	44.00000	4.00000	15.00000	0.036759	14.755	-8.3982E-6	-0.11180
	45.00000	4.00000	15.00000	0.096093	14.755	-7.1958E-6	-0.10241
	46.00000	4.00000	15.00000	0.14097	14.755	-6.1968E-6	-0.094057
	47.00000	4.00000	15.00000	0.17450	14.755	-5.3617E-6	-0.086593
	48.00000	4.00000	15.00000	0.19911	14.755	-4.6595E-6	-0.079904
	49.00000	4.00000	15.00000	0.21666	14.755	-4.0659E-6	-0.073890
	50.00000	4.00000	15.00000	0.22865	14.755	-3.5617E-6	-0.068469
	51.00000	4.00000	15.00000	0.23623	14.755	-3.1313E-6	-0.063567
	52.00000	4.00000	15.00000	0.24233	14.755	-2.7623E-6	-0.059124
	53.00000	4.00000	15.00000	0.24170	14.755	-2.4447E-6	-0.055087
	54.00000	4.00000	15.00000	0.24094	14.755	-2.1702E-6	-0.051411
	55.00000	4.00000	15.00000	0.23851	14.755	-1.9321E-6	-0.048055
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	-24.00000	5.00000	15.00000	0.21845	14.755	-8.6603E-6	-0.11397
	-23.00000	5.00000	15.00000	0.22161	14.755	-10.177E-6	-0.12488
	-22.00000	5.00000	15.00000	0.22363	14.755	-12.032E-6	-0.13725
	-21.00000	5.00000	15.00000	0.22421	14.755	-14.318E-6	-0.15134
	-20.00000	5.00000	15.00000	0.22294	14.755	-17.160E-6	-0.16747
	-19.00000	5.00000	15.00000	0.21935	14.755	-20.728E-6	-0.18603
	-18.00000	5.00000	15.00000	0.21283	14.755	-25.255E-6	-0.20751
	-17.00000	5.00000	15.00000	0.20265	14.755	-31.067E-6	-0.23253
	-16.00000	5.00000	15.00000	0.18788	14.755	-38.632E-6	-0.26188
	-15.00000	5.00000	15.00000	0.16740	14.755	-48.625E-6	-0.29660
	-14.00000	5.00000	15.00000	0.13978	14.755	-62.053E-6	-0.33803
	-13.00000	5.00000	15.00000	0.10325	14.755	-80.457E-6	-0.38800
	-12.00000	5.00000	15.00000	0.055564	14.755	-106.26E-6	-0.44898
	-11.00000	5.00000	15.00000	-0.0061490	14.755	-143.40E-6	-0.52443
	-10.00000	5.00000	15.00000	-0.085566	14.755	-198.59E-6	-0.61935
	-9.00000	5.00000	15.00000	-0.18747	14.755	-283.72E-6	-0.74111
	-8.00000	5.00000	15.00000	-0.31819	14.755	-421.23E-6	-0.90109
	-7.00000	5.00000	15.00000	-0.48623	14.755	-656.43E-6	-1.1176
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	-4.00000	5.00000	15.00000	-1.3594	14.755	-0.0040071	-2.5845
	-3.00000	5.00000	15.00000	-1.8631	14.755	-0.0098460	-3.8356
	-2.00000	5.00000	15.00000	-2.5685	14.755	-0.033916	-6.4503
	-1.00000	5.00000	15.00000	-3.6345	14.755	-0.26180	-14.414
	0.00000	5.00000	15.00000	-5.7271	14.755	-44.999	-105.68
	1.00000	5.00000	15.00000	-7.8193	14.755	-89.736	-196.95
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	3.00000	5.00000	15.00000	-9.5874	14.755	-89.988	-207.50
	4.00000	5.00000	15.00000	-10.088	14.755	-89.994	-208.73
	5.00000	5.00000	15.00000	-10.457	14.755	-89.996	-209.42
	6.00000	5.00000	15.00000	-10.734	14.755	-89.997	-209.83
	7.00000	5.00000	15.00000	-10.944	14.755	-89.997	-210.09
	8.00000	5.00000	15.00000	-11.103	14.755	-89.997	-210.25
	9.00000	5.00000	15.00000	-11.222	14.755	-89.997	-210.34
	10.00000	5.00000	15.00000	-11.309	14.755	-89.997	-210.36
	11.00000	5.00000	15.00000	-11.371	14.755	-89.997	-210.34
	12.00000	5.00000	15.00000	-11.410	14.755	-89.997	-210.25
	13.00000	5.00000	15.00000	-11.430	14.755	-89.997	-210.09
	14.00000	5.00000	15.00000	-11.432	14.755	-89.997	-209.83
	15.00000	5.00000	15.00000	-11.416	14.755	-89.996	-209.42
	16.00000	5.00000	15.00000	-11.383	14.755	-89.994	-208.73
	17.00000	5.00000	15.00000	-11.327	14.755	-89.988	-207.50
	18.00000	5.00000	15.00000	-11.239	14.755	-89.964	-204.90
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	23.00000	5.00000	15.00000	-10.332	14.755	-0.0098460	-3.8356
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	25.00000	5.00000	15.00000	-10.069	14.755	-0.0019670	-1.8719
	26.00000	5.00000	15.00000	-9.9184	14.755	-0.0010892	-1.4220
	27.00000	5.00000	15.00000	-9.7418	14.755	-656.43E-6	-1.1176
	28.00000	5.00000	15.00000	-9.5274	14.755	-421.23E-6	-0.90109
	29.00000	5.00000	15.00000	-9.2589	14.755	-283.72E-6	-0.74111
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	33.00000	5.00000	15.00000	-6.8835	14.755	-80.457E-6	-0.38800
	34.00000	5.00000	15.00000	-4.9765	14.755	-62.053E-6	-0.33803
	35.00000	5.00000	15.00000	-3.0713	14.755	-48.625E-6	-0.29660
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	39.00000	5.00000	15.00000	-0.74322	14.755	-20.728E-6	-0.18603
	40.00000	5.00000	15.00000	-0.49778	14.755	-17.160E-6	-0.16747
	41.00000	5.00000	15.00000	-0.31193	14.755	-14.318E-6	-0.15134
	42.00000	5.00000	15.00000	-0.17002	14.755	-12.032E-6	-0.13725
	43.00000	5.00000	15.00000	-0.061519	14.755	-10.177E-6	-0.12488
	44.00000	5.00000	15.00000	0.021489	14.755	-8.6603E-6	-0.11397
	45.00000	5.00000	15.00000	0.084791	14.755	-7.4103E-6	-0.10430
	46.00000	5.00000	15.00000	0.132274	14.755	-6.3734E-6	-0.095714
	47.00000	5.00000	15.00000	0.16866	14.755	-5.5077E-6	-0.088044
	48.00000	5.00000	15.00000	0.19510	14.755	-4.7809E-6	-0.081182
	49.00000	5.00000	15.00000	0.21407	14.755	-4.1674E-6	-0.075019
	50.00000	5.00000	15.00000	0.22714	14.755	-3.6468E-6	-0.069468
	51.00000	5.00000	15.0				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [m]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-5.00000	6.00000	15.00000	-1.0480	14.755	-0.0020316	-1.9459	4.9914E-6
-4.00000	6.00000	15.00000	-1.4372	14.755	-0.0041071	-2.6809	6.8566E-6
-3.00000	6.00000	15.00000	-1.9599	14.755	-0.0100001	-3.9614	10.071E-6
-2.00000	6.00000	15.00000	-2.6876	14.755	-0.034152	-6.6133	16.542E-6
-1.00000	6.00000	15.00000	-3.7786	14.755	-0.26215	-14.621	33.681E-6
0.00000	6.00000	15.00000	-5.8978	14.755	-44.999	-105.94	-423.48E-6
1.00000	6.00000	15.00000	-8.0165	14.755	-89.736	-197.25	-880.65E-6
2.00000	6.00000	15.00000	-9.1062	14.755	-89.964	-205.25	-863.53E-6
3.00000	6.00000	15.00000	-9.8316	14.755	-89.989	-207.89	-857.09E-6
4.00000	6.00000	15.00000	-10.351	14.755	-89.994	-209.15	-853.93E-6
5.00000	6.00000	15.00000	-10.736	14.755	-89.997	-209.85	-852.14E-6
6.00000	6.00000	15.00000	-11.026	14.755	-89.997	-210.28	-851.04E-6
7.00000	6.00000	15.00000	-11.245	14.755	-89.998	-210.55	-850.35E-6
8.00000	6.00000	15.00000	-11.412	14.755	-89.998	-210.72	-849.93E-6
9.00000	6.00000	15.00000	-11.537	14.755	-89.998	-210.81	-849.70E-6
10.00000	6.00000	15.00000	-11.629	14.755	-89.998	-210.84	-849.62E-6
11.00000	6.00000	15.00000	-11.694	14.755	-89.998	-210.81	-849.70E-6
12.00000	6.00000	15.00000	-11.735	14.755	-89.998	-210.72	-849.93E-6
13.00000	6.00000	15.00000	-11.756	14.755	-89.998	-210.55	-850.35E-6
14.00000	6.00000	15.00000	-11.758	14.755	-89.997	-210.28	-851.04E-6
15.00000	6.00000	15.00000	-11.742	14.755	-89.997	-209.85	-852.14E-6
16.00000	6.00000	15.00000	-11.707	14.755	-89.994	-209.15	-853.93E-6
17.00000	6.00000	15.00000	-11.649	14.755	-89.989	-207.89	-857.09E-6
18.00000	6.00000	15.00000	-11.559	14.755	-89.964	-205.25	-863.53E-6
19.00000	6.00000	15.00000	-11.403	14.755	-89.736	-197.25	-880.65E-6
20.00000	6.00000	15.00000	-11.185	14.755	-44.999	-105.94	-423.48E-6
21.00000	6.00000	15.00000	-10.957	14.755	-0.26215	-14.621	33.681E-6
22.00000	6.00000	15.00000	-10.771	14.755	-0.034152	-6.6133	16.542E-6
23.00000	6.00000	15.00000	-10.630	14.755	-0.0100001	-3.9614	10.071E-6
24.00000	6.00000	15.00000	-10.495	14.755	-0.0041071	-2.6809	6.8566E-6
25.00000	6.00000	15.00000	-10.354	14.755	-0.0020316	-1.9459	4.9914E-6
26.00000	6.00000	15.00000	-10.196	14.755	-0.0011314	-1.4791	3.8005E-6
27.00000	6.00000	15.00000	-10.011	14.755	-684.42E-6	-1.1621	2.9890E-6
28.00000	6.00000	15.00000	-9.7860	14.755	-440.16E-6	-0.93599	2.4092E-6
29.00000	6.00000	15.00000	-9.5053	14.755	-296.77E-6	-0.76879	1.9798E-6
30.00000	6.00000	15.00000	-9.1447	14.755	-207.76E-6	-0.64155	1.6527E-6
31.00000	6.00000	15.00000	-8.6681	14.755	-149.96E-6	-0.54231	1.3975E-6
32.00000	6.00000	15.00000	-8.0135	14.755	-111.02E-6	-0.46353	1.1948E-6
33.00000	6.00000	15.00000	-7.0552	14.755	-83.963E-6	-0.39993	1.0310E-6
34.00000	6.00000	15.00000	-5.1243	14.755	-64.671E-6	-0.34788	0.0
35.00000	6.00000	15.00000	-3.1953	14.755	-50.602E-6	-0.30473	0.0
36.00000	6.00000	15.00000	-2.2429	14.755	-40.143E-6	-0.26873	0.0
37.00000	6.00000	15.00000	-1.5983	14.755	-32.233E-6	-0.23828	0.0
38.00000	6.00000	15.00000	-1.1360	14.755	-26.163E-6	-0.21238	0.0
39.00000	6.00000	15.00000	-0.79442	14.755	-21.441E-6	-0.19017	0.0
40.00000	6.00000	15.00000	-0.53770	14.755	-17.725E-6	-0.17100	0.0
41.00000	6.00000	15.00000	-0.34273	14.755	-14.768E-6	-0.15437	0.0
42.00000	6.00000	15.00000	-0.19375	14.755	-12.394E-6	-0.13986	0.0
43.00000	6.00000	15.00000	-0.079601	14.755	-10.470E-6	-0.12713	0.0
44.00000	6.00000	15.00000	0.0078476	14.755	-8.8984E-6	-0.11592	0.0
45.00000	6.00000	15.00000	0.074630	14.755	-7.6051E-6	-0.10600	0.0
46.00000	6.00000	15.00000	0.12530	14.755	-6.5336E-6	-0.097202	0.0
47.00000	6.00000	15.00000	0.16334	14.755	-5.6402E-6	-0.089353	0.0
48.00000	6.00000	15.00000	0.19143	14.755	-4.8910E-6	-0.082333	0.0
49.00000	6.00000	15.00000	0.21168	14.755	-4.2593E-6	-0.076035	0.0
50.00000	6.00000	15.00000	0.22573	14.755	-3.7238E-6	-0.070367	0.0
51.00000	6.00000	15.00000	0.23488	14.755	-3.2679E-6	-0.065253	0.0
52.00000	6.00000	15.00000	0.24018	14.755	-2.8778E-6	-0.060625	0.0
53.00000	6.00000	15.00000	0.24244	14.755	-2.5427E-6	-0.056426	0.0
54.00000	6.00000	15.00000	0.24233	14.755	-2.2537E-6	-0.052609	0.0
55.00000	6.00000	15.00000	0.24037	14.755	-2.0035E-6	-0.049125	0.0
-25.00000	7.00000	15.00000	0.21616	14.755	-7.7781E-6	-0.10752	0.0
-24.00000	7.00000	15.00000	0.22000	14.755	-9.1099E-6	-0.11766	0.0
-23.00000	7.00000	15.00000	0.22290	14.755	-10.730E-6	-0.12913	0.0
-22.00000	7.00000	15.00000	0.22456	14.755	-12.716E-6	-0.14217	0.0
-21.00000	7.00000	15.00000	0.22464	14.755	-15.169E-6	-0.15706	0.0
-20.00000	7.00000	15.00000	0.22271	14.755	-18.226E-6	-0.17414	0.0
-19.00000	7.00000	15.00000	0.21825	14.755	-22.073E-6	-0.19383	0.0
-18.00000	7.00000	15.00000	0.21059	14.755	-26.966E-6	-0.21669	0.0
-17.00000	7.00000	15.00000	0.19894	14.755	-33.262E-6	-0.24339	0.0
-16.00000	7.00000	15.00000	0.18229	14.755	-41.472E-6	-0.27479	0.0
-15.00000	7.00000	15.00000	0.15940	14.755	-52.335E-6	-0.31203	0.0
-14.00000	7.00000	15.00000	0.12872	14.755	-66.951E-6	-0.35658	0.0
-13.00000	7.00000	15.00000	0.088299	14.755	-86.996E-6	-0.41044	1.0581E-6
-12.00000	7.00000	15.00000	0.035690	14.755	-115.09E-6	-0.47630	1.2277E-6
-11.00000	7.00000	15.00000	-0.032230	14.755	-155.50E-6	-0.55793	1.4378E-6
-10.00000	7.00000	15.00000	-0.11946	14.755	-215.39E-6	-0.66073	1.7022E-6
-9.00000	7.00000	15.00000	-0.23118	14.755	-307.42E-6	-0.79262	2.0412E-6
-8.00000	7.00000	15.00000	-0.37418	14.755	-455.20E-6	-0.96571	2.4857E-6
-7.00000	7.00000	15.00000	-0.55751	14.755	-705.92E-6	-1.1993	3.0849E-6
-6.00000	7.00000	15.00000	-0.79354	14.755	-1001.62E-6	-1.5262	3.9214E-6
-5.00000	7.00000	15.00000	-1.0996	14.755	-0.0020768	-2.0054	5.1444E-6
-4.00000	7.00000	15.00000	-1.5012	14.755	-0.0041729	-2.7563	7.0501E-6
-3.00000	7.00000	15.00000	-2.0383	14.755	-0.010096	-4.0565	10.314E-6
-2.00000	7.00000	15.00000	-2.7824	14.755	-0.034286	-6.7320	16.846E-6
-1.00000	7.00000	15.00000	-3.8914	14.755	-0.26233	-14.767	34.055E-6
0.00000	7.00000	15.00000	-6.0294	14.755	-45.000	-106.11	-423.03E-6
1.00000	7.00000	15.00000	-8.1670	14.755	-89.737	-197.45	-880.12E-6
2.00000	7.00000	15.00000	-9.2746	14.755	-89.965	-205.48	-862.94E-6
3.00000	7.00000	15.00000	-10.016	14.755	-89.989	-208.14	-856.44E-6
4.00000	7.00000	15.00000	-10.550	14.755	-89.995	-209.42	-853.24E-6
5.00000	7.00000	15.00000	-10.947	14.755	-89.997	-210.14	-851.40E-6
6.00000	7.00000	15.00000	-11.247	14.755	-89.998	-210.58	-850.28E-6
7.00000	7.00000	15.00000	-11.475	14.755	-89.998	-210.86	-849.57E-6
8.00000	7.00000	15.00000	-11.648	14.755	-89.999	-211.03	-849.13E-6
9.00000	7.00000	15.00000	-11.778	14.755	-89.999	-211.17	-848.89E-6
10.00000	7.00000	15.00000	-11.873	14.755	-89.999	-211.16	-848.82E-6
11.00000	7.00000	15.00000	-11.941	14.755	-89.999	-211.13	-848.89E-6
12.00000	7.00000	15.00000	-11.984	14.755	-89.999	-211.03	-849.13E-6
13.00000	7.00000	15.00000	-12.006	14.755	-89.998	-210.86	-849.57E-6
14.00000	7.00000	15.00000	-12.008	14.755	-89.998	-210.58	-850.28E-6
15.00000	7.00000	15.00000	-11.992	14.755	-89.997	-210.14	-851.40E-6
16.00000	7.00000	15.00000	-11.956	14.755	-89.995	-209.42	-853.24E-6
17.00000	7.00000	15.00000	-11.896	14.755	-89.989	-208.14	-856.44E-6
18.00000	7.00000	15.00000	-11.804	14.755	-89.965	-205.48	-862.94E-6
19.00000	7.00000	15.00000	-11.645	14.755	-89.737	-197.45	-880.12E-6
20.00000	7.00000	15.00000	-11.424	14.755	-45.000	-106.11	-423.03E-6
21.00000	7.00000	15.00000	-11.192	14.755	-0.26233	-14.767	34.055E-6
22.00000	7.00000	15.00000	-11.003	14.755	-0.034286	-6.7320	16.846E-6
23.00000	7.00000	15.00000	-10.857	14.755	-0.010096	-4.0565	10.314E-6
24.00000	7.00000	15.00000	-10.717	14.755	-0.0041729	-2.7563	7.0501E-6
25.00000	7.00000	15.00000	-10.571	14.755	-0.0020768	-2.0054	5.1444E-6
26.00000	7.00000	15.00000	-10.407	14.755	-0.0011625	-1.5262	3.9214E-6
27.00000	7.00000	15.00000	-10.214	14.755	-705.92E-6	-1.1993	3.0849E-6
28.00000	7.00000	15.00000	-9.9814	14.755	-455.20E-6	-0.96571	2.4857E-6
29.00000	7.00000	15.00000	-9.6909	14.755	-307.42E-6	-0.79262	2.0412E-6
30.00000	7.00000	15.00000	-9.3189	14.755	-215.39E-6	-0.66073	1.7022E-6
31.00000	7.00000	15.00000	-8.8291	14.755	-155.50E-6	-0.55793	1.4378E-6
32.00000	7.00000	15.00000	-8.1597	14.755	-115.09E-6</		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
44.00000	7.00000	15.00000	-0.0040288	14.755	-9.1099E-6	-0.11766	0.0
45.00000	7.00000	15.00000	0.065731	14.755	-7.7781E-6	-0.10752	0.0
46.00000	7.00000	15.00000	0.11875	14.755	-6.6759E-6	-0.098521	0.0
47.00000	7.00000	15.00000	0.15863	14.755	-5.7579E-6	-0.090509	0.0
48.00000	7.00000	15.00000	0.18816	14.755	-4.9887E-6	-0.083350	0.0
49.00000	7.00000	15.00000	0.20953	14.755	-4.3408E-6	-0.076932	0.0
50.00000	7.00000	15.00000	0.22444	14.755	-3.7921E-6	-0.071161	0.0
51.00000	7.00000	15.00000	0.23426	14.755	-3.3253E-6	-0.065956	0.0
52.00000	7.00000	15.00000	0.24006	14.755	-2.9264E-6	-0.061250	0.0
53.00000	7.00000	15.00000	0.24269	14.755	-2.5839E-6	-0.056984	0.0
54.00000	7.00000	15.00000	0.24286	14.755	-2.2888E-6	-0.053107	0.0
55.00000	7.00000	15.00000	0.24111	14.755	-2.0335E-6	-0.049576	0.0
-25.00000	8.00000	15.00000	0.21683	14.755	-7.9276E-6	-0.10882	0.0
-24.00000	8.00000	15.00000	0.22060	14.755	-9.2927E-6	-0.11915	0.0
-23.00000	8.00000	15.00000	0.22339	14.755	-10.955E-6	-0.13085	0.0
-22.00000	8.00000	15.00000	0.22490	14.755	-12.993E-6	-0.14416	0.0
-21.00000	8.00000	15.00000	0.22478	14.755	-15.514E-6	-0.15937	0.0
-20.00000	8.00000	15.00000	0.22258	14.755	-18.658E-6	-0.17684	0.0
-19.00000	8.00000	15.00000	0.21776	14.755	-22.618E-6	-0.19700	0.0
-18.00000	8.00000	15.00000	0.20964	14.755	-27.657E-6	-0.22041	0.0
-17.00000	8.00000	15.00000	0.19739	14.755	-34.146E-6	-0.24778	0.0
-16.00000	8.00000	15.00000	0.17998	14.755	-42.609E-6	-0.28001	0.0
-15.00000	8.00000	15.00000	0.15612	14.755	-53.811E-6	-0.31826	0.0
-14.00000	8.00000	15.00000	0.12422	14.755	-68.883E-6	-0.36405	0.0
-13.00000	8.00000	15.00000	0.082258	14.755	-89.545E-6	-0.41944	1.0813E-6
-12.00000	8.00000	15.00000	0.027714	14.755	-118.49E-6	-0.48720	1.2558E-6
-11.00000	8.00000	15.00000	-0.042625	14.755	-160.07E-6	-0.57121	1.4720E-6
-10.00000	8.00000	15.00000	-0.13286	14.755	-221.58E-6	-0.67697	1.7440E-6
-9.00000	8.00000	15.00000	-0.24830	14.755	-315.89E-6	-0.81259	2.0926E-6
-8.00000	8.00000	15.00000	-0.39587	14.755	-466.99E-6	-0.99036	2.5492E-6
-7.00000	8.00000	15.00000	-0.58479	14.755	-722.15E-6	-1.2299	3.1635E-6
-6.00000	8.00000	15.00000	-0.82756	14.755	-0.0011851	-1.5641	4.0189E-6
-5.00000	8.00000	15.00000	-1.1417	14.755	-0.0021084	-2.0525	5.2654E-6
-4.00000	8.00000	15.00000	-1.5526	14.755	-0.0042167	-2.8146	7.1999E-6
-3.00000	8.00000	15.00000	-2.1006	14.755	-0.010156	-4.1282	10.4999E-6
-2.00000	8.00000	15.00000	-2.8568	14.755	-0.034366	-6.8193	17.070E-6
-1.00000	8.00000	15.00000	-3.9788	14.755	-0.26243	-14.872	34.323E-6
0.00000	8.00000	15.00000	-6.1304	14.755	-45.000	-106.23	-422.72E-6
1.00000	8.00000	15.00000	-8.2815	14.755	-89.737	-197.60	-879.76E-6
2.00000	8.00000	15.00000	-9.4021	14.755	-89.965	-205.64	-862.53E-6
3.00000	8.00000	15.00000	-10.156	14.755	-89.989	-208.31	-856.00E-6
4.00000	8.00000	15.00000	-10.700	14.755	-89.995	-209.61	-852.76E-6
5.00000	8.00000	15.00000	-11.106	14.755	-89.997	-210.34	-850.90E-6
6.00000	8.00000	15.00000	-11.414	14.755	-89.998	-210.79	-849.76E-6
7.00000	8.00000	15.00000	-11.648	14.755	-89.999	-211.07	-849.03E-6
8.00000	8.00000	15.00000	-11.826	14.755	-89.999	-211.25	-848.58E-6
9.00000	8.00000	15.00000	-11.961	14.755	-89.999	-211.34	-848.34E-6
10.00000	8.00000	15.00000	-12.059	14.755	-89.999	-211.37	-848.26E-6
11.00000	8.00000	15.00000	-12.129	14.755	-89.999	-211.34	-848.34E-6
12.00000	8.00000	15.00000	-12.173	14.755	-89.999	-211.25	-848.58E-6
13.00000	8.00000	15.00000	-12.196	14.755	-89.999	-211.07	-849.03E-6
14.00000	8.00000	15.00000	-12.199	14.755	-89.998	-210.79	-849.76E-6
15.00000	8.00000	15.00000	-12.182	14.755	-89.997	-210.34	-850.90E-6
16.00000	8.00000	15.00000	-12.145	14.755	-89.995	-209.61	-852.76E-6
17.00000	8.00000	15.00000	-12.085	14.755	-89.989	-208.31	-856.00E-6
18.00000	8.00000	15.00000	-11.991	14.755	-89.965	-205.64	-862.53E-6
19.00000	8.00000	15.00000	-11.830	14.755	-89.737	-197.60	-879.76E-6
20.00000	8.00000	15.00000	-11.606	14.755	-45.000	-106.23	-422.72E-6
21.00000	8.00000	15.00000	-11.372	14.755	-0.26243	-14.872	34.323E-6
22.00000	8.00000	15.00000	-11.179	14.755	-0.034366	-6.8193	17.070E-6
23.00000	8.00000	15.00000	-11.029	14.755	-0.010156	-4.1282	10.4999E-6
24.00000	8.00000	15.00000	-10.886	14.755	-0.0042167	-2.8146	7.1999E-6
25.00000	8.00000	15.00000	-10.735	14.755	-0.0021084	-2.0525	5.2654E-6
26.00000	8.00000	15.00000	-10.566	14.755	-0.0011851	-1.5641	4.0189E-6
27.00000	8.00000	15.00000	-10.368	14.755	-722.15E-6	-1.2299	3.1635E-6
28.00000	8.00000	15.00000	-10.129	14.755	-466.89E-6	-0.99036	2.5492E-6
29.00000	8.00000	15.00000	-9.8304	14.755	-315.89E-6	-0.81259	2.0926E-6
30.00000	8.00000	15.00000	-9.4497	14.755	-221.58E-6	-0.67697	1.7440E-6
31.00000	8.00000	15.00000	-8.9501	14.755	-160.07E-6	-0.57121	1.4720E-6
32.00000	8.00000	15.00000	-8.2698	14.755	-118.49E-6	-0.48720	1.2558E-6
33.00000	8.00000	15.00000	-7.2836	14.755	-89.545E-6	-0.41944	1.0813E-6
34.00000	8.00000	15.00000	-5.3236	14.755	-68.883E-6	-0.36405	0.0
35.00000	8.00000	15.00000	-3.3658	14.755	-53.811E-6	-0.31826	0.0
36.00000	8.00000	15.00000	-2.3859	14.755	-42.609E-6	-0.28001	0.0
37.00000	8.00000	15.00000	-1.7163	14.755	-34.146E-6	-0.24778	0.0
38.00000	8.00000	15.00000	-1.2318	14.755	-27.657E-6	-0.22041	0.0
39.00000	8.00000	15.00000	-0.87130	14.755	-22.618E-6	-0.19700	0.0
40.00000	8.00000	15.00000	-0.59872	14.755	-18.658E-6	-0.17684	0.0
41.00000	8.00000	15.00000	-0.39069	14.755	-15.514E-6	-0.15937	0.0
42.00000	8.00000	15.00000	-0.23109	14.755	-12.993E-6	-0.14416	0.0
43.00000	8.00000	15.00000	-0.10837	14.755	-10.955E-6	-0.13085	0.0
44.00000	8.00000	15.00000	-0.014069	14.755	-9.2927E-6	-0.11915	0.0
45.00000	8.00000	15.00000	0.058166	14.755	-7.9276E-6	-0.10882	0.0
46.00000	8.00000	15.00000	0.11315	14.755	-6.7988E-6	-0.099656	0.0
47.00000	8.00000	15.00000	0.15458	14.755	-5.8594E-6	-0.091503	0.0
48.00000	8.00000	15.00000	0.18534	14.755	-5.0731E-6	-0.084224	0.0
49.00000	8.00000	15.00000	0.20766	14.755	-4.4111E-6	-0.077702	0.0
50.00000	8.00000	15.00000	0.22331	14.755	-3.8511E-6	-0.071842	0.0
51.00000	8.00000	15.00000	0.23370	14.755	-3.3749E-6	-0.066560	0.0
52.00000	8.00000	15.00000	0.23993	14.755	-2.9682E-6	-0.061787	0.0
53.00000	8.00000	15.00000	0.24289	14.755	-2.6194E-6	-0.057463	0.0
54.00000	8.00000	15.00000	0.24330	14.755	-2.3190E-6	-0.053535	0.0
55.00000	8.00000	15.00000	0.24172	14.755	-2.0593E-6	-0.049959	0.0
-25.00000	9.00000	15.00000	0.21738	14.755	-8.0521E-6	-0.10990	0.0
-24.00000	9.00000	15.00000	0.22109	14.755	-9.4448E-6	-0.12039	0.0
-23.00000	9.00000	15.00000	0.22378	14.755	-11.142E-6	-0.13228	0.0
-22.00000	9.00000	15.00000	0.22517	14.755	-13.224E-6	-0.14582	0.0
-21.00000	9.00000	15.00000	0.22488				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
12.00000	9.00000	15.00000	-12.316	14.755	-89.999	-211.39	-848.20E-6
13.00000	9.00000	15.00000	-12.339	14.755	-89.999	-211.22	-848.66E-6
14.00000	9.00000	15.00000	-12.342	14.755	-89.998	-210.93	-849.39E-6
15.00000	9.00000	15.00000	-12.326	14.755	-89.997	-210.47	-850.55E-6
16.00000	9.00000	15.00000	-12.275	14.755	-89.995	-209.73	-852.43E-6
17.00000	9.00000	15.00000	-12.226	14.755	-89.989	-208.43	-855.69E-6
18.00000	9.00000	15.00000	-12.131	14.755	-89.965	-205.75	-862.25E-6
19.00000	9.00000	15.00000	-11.969	14.755	-89.737	-197.69	-879.51E-6
20.00000	9.00000	15.00000	-11.743	14.755	-45.000	-106.32	-422.49E-6
21.00000	9.00000	15.00000	-11.506	14.755	-0.26250	-14.947	34.516E-6
22.00000	9.00000	15.00000	-11.311	14.755	-0.034416	-6.8832	17.234E-6
23.00000	9.00000	15.00000	-11.159	14.755	-0.010194	-4.1817	10.636E-6
24.00000	9.00000	15.00000	-11.012	14.755	-0.0042461	-2.8589	7.3137E-6
25.00000	9.00000	15.00000	-10.858	14.755	-0.0021303	-2.0889	5.3590E-6
26.00000	9.00000	15.00000	-10.685	14.755	-0.0012014	-1.5938	4.0954E-6
27.00000	9.00000	15.00000	-10.482	14.755	-734.13E-6	-1.2541	3.2259E-6
28.00000	9.00000	15.00000	-10.238	14.755	-475.73E-6	-1.0101	2.6001E-6
29.00000	9.00000	15.00000	-9.9339	14.755	-322.43E-6	-0.82875	2.1342E-6
30.00000	9.00000	15.00000	-9.5467	14.755	-226.44E-6	-0.69021	1.7781E-6
31.00000	9.00000	15.00000	-9.0397	14.755	-163.70E-6	-0.58208	1.5000E-6
32.00000	9.00000	15.00000	-8.3515	14.755	-121.22E-6	-0.49617	1.2789E-6
33.00000	9.00000	15.00000	-7.3569	14.755	-91.612E-6	-0.42687	1.1004E-6
34.00000	9.00000	15.00000	-5.3883	14.755	-70.459E-6	-0.37023	0.0
35.00000	9.00000	15.00000	-3.4219	14.755	-55.022E-6	-0.32342	0.0
36.00000	9.00000	15.00000	-2.4337	14.755	-43.546E-6	-0.28434	0.0
37.00000	9.00000	15.00000	-1.7563	14.755	-34.875E-6	-0.25144	0.0
38.00000	9.00000	15.00000	-1.2650	14.755	-28.230E-6	-0.22350	0.0
39.00000	9.00000	15.00000	-0.89834	14.755	-23.070E-6	-0.19963	0.0
40.00000	9.00000	15.00000	-0.62051	14.755	-19.018E-6	-0.17908	0.0
41.00000	9.00000	15.00000	-0.40805	14.755	-15.801E-6	-0.16130	0.0
42.00000	9.00000	15.00000	-0.24476	14.755	-13.224E-6	-0.14582	0.0
43.00000	9.00000	15.00000	-0.11902	14.755	-11.142E-6	-0.13228	0.0
44.00000	9.00000	15.00000	-0.022249	14.755	-9.4448E-6	-0.12039	0.0
45.00000	9.00000	15.00000	0.051972	14.755	-8.0521E-6	-0.10990	0.0
46.00000	9.00000	15.00000	0.10855	14.755	-6.9011E-6	-0.10060	0.0
47.00000	9.00000	15.00000	0.15124	14.755	-5.9439E-6	-0.09232	0.0
48.00000	9.00000	15.00000	0.18300	14.755	-5.1432E-6	-0.08498	0.0
49.00000	9.00000	15.00000	0.20610	14.755	-4.4696E-6	-0.078341	0.0
50.00000	9.00000	15.00000	0.22236	14.755	-3.9000E-6	-0.072406	0.0
51.00000	9.00000	15.00000	0.23232	14.755	-3.4161E-6	-0.067060	0.0
52.00000	9.00000	15.00000	0.23981	14.755	-3.0030E-6	-0.062232	0.0
53.00000	9.00000	15.00000	0.24304	14.755	-2.6489E-6	-0.057859	0.0
54.00000	9.00000	15.00000	0.24365	14.755	-2.3440E-6	-0.053888	0.0
55.00000	9.00000	15.00000	0.24222	14.755	-2.0807E-6	-0.050275	0.0
25.00000	10.00000	15.00000	0.21781	14.755	-8.1502E-6	-0.11074	0.0
-24.00000	10.00000	15.00000	0.22146	14.755	-9.5648E-6	-0.12137	0.0
-23.00000	10.00000	15.00000	0.22408	14.755	-11.289E-6	-0.13341	0.0
-22.00000	10.00000	15.00000	0.22537	14.755	-13.407E-6	-0.14712	0.0
-21.00000	10.00000	15.00000	0.22495	14.755	-16.028E-6	-0.16281	0.0
-20.00000	10.00000	15.00000	0.22234	14.755	-19.300E-6	-0.18085	0.0
-19.00000	10.00000	15.00000	0.21699	14.755	-23.425E-6	-0.20169	0.0
-18.00000	10.00000	15.00000	0.20819	14.755	-28.679E-6	-0.22594	0.0
-17.00000	10.00000	15.00000	0.19506	14.755	-35.447E-6	-0.25431	0.0
-16.00000	10.00000	15.00000	0.17653	14.755	-44.277E-6	-0.28775	0.0
-15.00000	10.00000	15.00000	0.15125	14.755	-55.964E-6	-0.32747	0.0
-14.00000	10.00000	15.00000	0.11755	14.755	-71.680E-6	-0.37507	0.0
-13.00000	10.00000	15.00000	0.073345	14.755	-93.205E-6	-0.43268	1.1154E-6
-12.00000	10.00000	15.00000	0.016003	14.755	-123.31E-6	-0.50317	1.2969E-6
-11.00000	10.00000	15.00000	-0.057803	14.755	-166.45E-6	-0.59054	1.5218E-6
-10.00000	10.00000	15.00000	-0.15231	14.755	-230.08E-6	-0.70045	1.8045E-6
-9.00000	10.00000	15.00000	-0.27298	14.755	-327.27E-6	-0.84119	2.1663E-6
-8.00000	10.00000	15.00000	-0.42689	14.755	-482.16E-6	-1.0253	2.6390E-6
-7.00000	10.00000	15.00000	-0.62344	14.755	-742.69E-6	-1.2725	3.2732E-6
-6.00000	10.00000	15.00000	-0.87526	14.755	-0.0012127	-1.6161	4.1528E-6
-5.00000	10.00000	15.00000	-1.1999	14.755	-0.0021452	-2.1159	5.4284E-6
-4.00000	10.00000	15.00000	-1.6231	14.755	-0.0042655	-2.8913	7.3971E-6
-3.00000	10.00000	15.00000	-2.1848	14.755	-0.010219	-4.2203	10.736E-6
-2.00000	10.00000	15.00000	-2.9560	14.755	-0.034448	-6.9287	17.351E-6
-1.00000	10.00000	15.00000	-4.0941	14.755	-0.26253	-15.000	34.652E-6
0.00000	10.00000	15.00000	-6.2622	14.755	-45.000	-106.38	-422.34E-6
1.00000	10.00000	15.00000	-8.4298	14.755	-89.737	-197.76	-879.33E-6
2.00000	10.00000	15.00000	-9.5663	14.755	-89.965	-205.82	-862.06E-6
3.00000	10.00000	15.00000	-10.335	14.755	-89.989	-208.52	-855.48E-6
4.00000	10.00000	15.00000	-10.893	14.755	-89.995	-209.82	-852.20E-6
5.00000	10.00000	15.00000	-11.311	14.755	-89.997	-210.57	-850.31E-6
6.00000	10.00000	15.00000	-11.628	14.755	-89.998	-211.03	-849.14E-6
7.00000	10.00000	15.00000	-11.871	14.755	-89.999	-211.32	-848.40E-6
8.00000	10.00000	15.00000	-12.057	14.755	-89.999	-211.50	-847.94E-6
9.00000	10.00000	15.00000	-12.196	14.755	-89.999	-211.60	-847.69E-6
10.00000	10.00000	15.00000	-12.300	14.755	-89.999	-211.63	-847.60E-6
11.00000	10.00000	15.00000	-12.372	14.755	-89.999	-211.60	-847.69E-6
12.00000	10.00000	15.00000	-12.419	14.755	-89.999	-211.50	-847.94E-6
13.00000	10.00000	15.00000	-12.443	14.755	-89.999	-211.32	-848.40E-6
14.00000	10.00000	15.00000	-12.446	14.755	-89.998	-211.03	-849.14E-6
15.00000	10.00000	15.00000	-12.429	14.755	-89.997	-210.57	-850.31E-6
16.00000	10.00000	15.00000	-12.391	14.755	-89.995	-209.82	-852.20E-6
17.00000	10.00000	15.00000	-12.329	14.755	-89.989	-208.52	-855.48E-6
18.00000	10.00000	15.00000	-12.233	14.755	-89.965	-205.82	-862.06E-6
19.00000	10.00000	15.00000	-12.069	14.755	-89.737	-197.76	-879.33E-6
20.00000	10.00000	15.00000	-11.842	14.755	-45.000	-106.38	-422.34E-6
21.00000	10.00000	15.00000	-11.604	14.755	-0.26253	-15.000	34.652E-6
22.00000	10.00000	15.00000	-11.407	14.755	-0.034448	-6.9287	17.351E-6
23.00000	10.00000	15.00000	-11.252	14.755	-0.010219	-4.2203	10.736E-6
24.00000	10.00000	15.00000	-11.104	14.755	-0.0042655	-2.8913	7.3971E-6
25.00000	10.00000	15.00000	-10.947	14.755	-0.0021452	-2.1159	5.4284E-6
26.00000	10.00000	15.00000	-10.771	14.755	-0.0012127	-1.6161	4.1528E-6
27.00000	10.00000	15.00000	-10.565	14.755	-742.69E-6	-1.2725	3.2732E-6



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	-20.00000	11.00000	15.00000	0.22226	14.755	-19.504E-6	-0.18212	0.0
	-19.00000	11.00000	15.00000	0.21674	14.755	-23.681E-6	-0.20318	0.0
	-18.00000	11.00000	15.00000	0.20772	14.755	-29.002E-6	-0.22769	0.0
	-17.00000	11.00000	15.00000	0.19431	14.755	-35.857E-6	-0.25638	0.0
	-16.00000	11.00000	15.00000	0.17543	14.755	-44.801E-6	-0.29020	0.0
	-15.00000	11.00000	15.00000	0.14970	14.755	-56.637E-6	-0.33039	0.0
	-14.00000	11.00000	15.00000	0.11544	14.755	-72.549E-6	-0.37855	0.0
	-13.00000	11.00000	15.00000	0.070535	14.755	-94.332E-6	-0.43684	1.1262E-6
	-12.00000	11.00000	15.00000	0.012326	14.755	-124.78E-6	-0.50818	1.3098E-6
	-11.00000	11.00000	15.00000	-0.062548	14.755	-168.37E-6	-0.59657	1.5373E-6
	-10.00000	11.00000	15.00000	-0.15836	14.755	-232.61E-6	-0.70774	1.8233E-6
	-9.00000	11.00000	15.00000	-0.28061	14.755	-330.59E-6	-0.85000	2.1889E-6
	-8.00000	11.00000	15.00000	-0.43642	14.755	-486.52E-6	-1.0359	2.6665E-6
	-7.00000	11.00000	15.00000	-0.63522	14.755	-748.40E-6	-1.2854	3.3064E-6
	-6.00000	11.00000	15.00000	-0.88969	14.755	-0.0012201	-1.6316	4.1927E-6
	-5.00000	11.00000	15.00000	-1.2174	14.755	-0.0021548	-2.1345	5.4762E-6
	-4.00000	11.00000	15.00000	-1.6440	14.755	-0.0042779	-2.9134	7.4541E-6
	-3.00000	11.00000	15.00000	-2.2096	14.755	-0.010235	-4.2465	10.803E-6
	-2.00000	11.00000	15.00000	-2.9849	14.755	-0.034467	-6.9593	17.430E-6
	-1.00000	11.00000	15.00000	-4.1274	14.755	-0.26256	-15.035	34.743E-6
	0.00000	11.00000	15.00000	-6.3000	14.755	-45.000	-106.42	422.23E-6
	1.00000	11.00000	15.00000	-8.4721	14.755	-89.737	-197.81	879.22E-6
	2.00000	11.00000	15.00000	-9.6130	14.755	-89.965	-205.87	861.93E-6
	3.00000	11.00000	15.00000	-10.386	14.755	-89.989	-208.57	855.34E-6
	4.00000	11.00000	15.00000	-10.947	14.755	-89.995	-209.88	852.06E-6
	5.00000	11.00000	15.00000	-11.1649	14.755	-89.997	-210.63	850.16E-6
	6.00000	11.00000	15.00000	-11.689	14.755	-89.998	-211.09	848.98E-6
	7.00000	11.00000	15.00000	-11.935	14.755	-89.999	-211.38	848.23E-6
	8.00000	11.00000	15.00000	-12.122	14.755	-89.999	-211.56	847.77E-6
	9.00000	11.00000	15.00000	-12.263	14.755	-89.999	-211.66	847.51E-6
	10.00000	11.00000	15.00000	-12.368	14.755	-89.999	-211.70	847.43E-6
	11.00000	11.00000	15.00000	-12.442	14.755	-89.999	-211.66	847.51E-6
	12.00000	11.00000	15.00000	-12.489	14.755	-89.999	-211.56	847.77E-6
	13.00000	11.00000	15.00000	-12.514	14.755	-89.999	-211.38	848.23E-6
	14.00000	11.00000	15.00000	-12.517	14.755	-89.998	-211.09	848.98E-6
	15.00000	11.00000	15.00000	-12.500	14.755	-89.997	-210.63	850.16E-6
	16.00000	11.00000	15.00000	-12.462	14.755	-89.995	-209.88	852.06E-6
	17.00000	11.00000	15.00000	-12.399	14.755	-89.989	-208.57	855.34E-6
	18.00000	11.00000	15.00000	-12.302	14.755	-89.965	-205.87	861.93E-6
	19.00000	11.00000	15.00000	-12.137	14.755	-89.737	-197.81	879.22E-6
	20.00000	11.00000	15.00000	-11.909	14.755	-45.000	-106.42	422.23E-6
	21.00000	11.00000	15.00000	-11.670	14.755	-0.26256	-15.035	34.743E-6
	22.00000	11.00000	15.00000	-11.472	14.755	-0.034467	-6.9593	17.430E-6
	23.00000	11.00000	15.00000	-11.316	14.755	-0.010235	-4.2465	10.803E-6
	24.00000	11.00000	15.00000	-11.166	14.755	-0.0042779	-2.9134	7.4541E-6
	25.00000	11.00000	15.00000	-11.007	14.755	-0.0021548	-2.1345	5.4762E-6
	26.00000	11.00000	15.00000	-10.829	14.755	-0.0012201	-1.6316	4.1927E-6
	27.00000	11.00000	15.00000	-10.621	14.755	-748.40E-6	-1.2854	3.3064E-6
	28.00000	11.00000	15.00000	-10.370	14.755	-486.52E-6	-1.0359	2.6665E-6
	29.00000	11.00000	15.00000	-10.059	14.755	-330.59E-6	-0.85000	2.1889E-6
	30.00000	11.00000	15.00000	-9.6643	14.755	-232.61E-6	-0.70774	1.8233E-6
	31.00000	11.00000	15.00000	-9.1477	14.755	-168.37E-6	-0.59657	1.5373E-6
	32.00000	11.00000	15.00000	-8.4501	14.755	-124.78E-6	-0.50818	1.3098E-6
	33.00000	11.00000	15.00000	-7.4457	14.755	-94.332E-6	-0.43684	1.1262E-6
	34.00000	11.00000	15.00000	-5.4671	14.755	-72.549E-6	-0.37855	0.0
	35.00000	11.00000	15.00000	-3.4906	14.755	-56.637E-6	-0.33039	0.0
	36.00000	11.00000	15.00000	-2.4928	14.755	-44.801E-6	-0.29020	0.0
	37.00000	11.00000	15.00000	-1.8064	14.755	-35.857E-6	-0.25638	0.0
	38.00000	11.00000	15.00000	-1.3067	14.755	-29.002E-6	-0.22769	0.0
	39.00000	11.00000	15.00000	-0.93276	14.755	-23.681E-6	-0.20318	0.0
	40.00000	11.00000	15.00000	-0.64880	14.755	-19.504E-6	-0.18212	0.0
	41.00000	11.00000	15.00000	-0.43054	14.755	-16.191E-6	-0.16390	0.0
	42.00000	11.00000	15.00000	-0.26261	14.755	-13.538E-6	-0.14806	0.0
	43.00000	11.00000	15.00000	-0.13301	14.755	-11.395E-6	-0.13422	0.0
	44.00000	11.00000	15.00000	-0.033069	14.755	-9.6513E-6	-0.12207	0.0
	45.00000	11.00000	15.00000	0.043736	14.755	-8.2210E-6	-0.11136	0.0
	46.00000	11.00000	15.00000	0.10239	14.755	-7.0400E-6	-0.10187	0.0
	47.00000	11.00000	15.00000	0.14676	14.755	-6.0586E-6	-0.093443	0.0
	48.00000	11.00000	15.00000	0.17984	14.755	-5.2384E-6	-0.085928	0.0
	49.00000	11.00000	15.00000	0.20398	14.755	-4.5489E-6	-0.079203	0.0
	50.00000	11.00000	15.00000	0.222106	14.755	-3.9664E-6	-0.073165	0.0
	51.00000	11.00000	15.00000	0.23255	14.755	-3.4719E-6	-0.067735	0.0
	52.00000	11.00000	15.00000	0.23963	14.755	-3.0501E-6	-0.062831	0.0
	53.00000	11.00000	15.00000	0.24323	14.755	-2.6888E-6	-0.058393	0.0
	54.00000	11.00000	15.00000	0.24411	14.755	-2.3780E-6	-0.054365	0.0
	55.00000	11.00000	15.00000	0.24288	14.755	-2.1096E-6	-0.050702	0.0
	-25.00000	12.00000	15.00000	0.21829	14.755	-8.2637E-6	-0.11172	0.0
	-24.00000	12.00000	15.00000	0.22189	14.755	-9.7035E-6	-0.12249	0.0
	-23.00000	12.00000	15.00000	0.22443	14.755	-11.460E-6	-0.13471	0.0
	-22.00000	12.00000	15.00000	0.22560	14.755	-13.617E-6	-0.14863	0.0
	-21.00000	12.00000	15.00000	0.22502	14.755	-16.289E-6	-0.16458	0.0
	-20.00000	12.00000	15.00000	0.22221	14.755	-19.627E-6	-0.18289	0.0
	-19.00000	12.00000	15.00000	0.21659	14.755	-23.835E-6	-0.20408	0.0
	-18.00000	12.00000	15.00000	0.20744	14.755	-29.196E-6	-0.22875	0.0
	-17.00000	12.00000	15.00000	0.19386	14.755	-36.104E-6	-0.25762	0.0
	-16.00000	12.00000	15.00000	0.17476	14.755	-45.116E-6	-0.29168	0.0
	-15.00000	12.00000	15.00000	0.14876	14.755	-57.040E-6	-0.33214	0.0
	-14.00000	12.00000	15.00000	0.11417	14.755	-73.069E-6	-0.38065	0.0
	-13.00000	12.00000	15.00000	0.068845	14.755	-95.005E-6	-0.43935	1.1326E-6
	-12.00000	12.00000	15.00000	0.010117	14.755	-125.65E-6	-0.51118	1.3176E-6
	-11.00000	12.00000	15.00000	-0.065392	14.755	-169.51E-6	-0.60012	1.5466E-6
	-10.00000	12.00000	15.00000	-0.16198	14.755	-234.09E-6	-0.71210	1.8345E-6
	-9.00000	12.00000	15.00000	-0.28516	14.755	-332.52E-6	-0.85525	2.2025E-6
	-8.00000	12.00000	15.00000	-0.44210	14.755	-489.05E-6	-1.0423	2.6828E-6
	-7.00000	12.00000	15.00000	-0.64222	14.755	-751.67E-6	-1.2930	3.3260E-6
	-6.00000	12.00000	15.00000	-0.89823	14.755	-0.0012244	-1.6408	4.2163E-6
	-5.00000	12.00000	15.00000	-1.2277	14.755	-0.0021603	-2.1453	5.5043E-6
	-4.00000	12.00000	15.00000	-1.6564	14.755	-0.0042847	-2.9264	7.4873E-6
	-3.00000	12.00000	15.00000	-2.2241	14.755	-0.010243	-4.2617	10.842E-6
	-2.00000	12.00000	15.00000	-3.0018	14.755	-0.034477	-6.9769	17.475E-6
	-1.00000	12.00000	15.00000	-4.1468	14.755	-0.26257	-15.055	34.795E-6
	0.00000	12.00000	15.00000	-6.3220	14.755	-45.000	-106.45	422.18E-6
	1.00000	12.00000	15.00000	-8.4966	14.755	-89.737	-197.83	879.15E-6
	2.00000	12.00000	15.00000	-9.6400	14.755	-89.965	-205.90	861.86E-6
	3.00000	12.00000	15.00000	-10.415	14.755	-89.989	-208.60	855.27E-6
	4.00000	12.00000	15.00000	-10.979	14.755	-89.995	-209.91	851.97E-6
	5.00000	12.00000	15.00000	-11.402	14.755	-89.998	-210.66	850.07E-6
	6.00000	12.00000	15.00000	-11.724	14.755	-89.998	-211.12	848.89E-6
	7.00000	12.00000	15.00000	-11.971	14.755	-89.999	-211.42	848.14E-6
	8.00000	12.00000	15.00000	-12.160	14.755	-89.999	-211.60	847.67E-6
	9.00000	12.00000	15.00000	-12.302	14.755	-89.999	-211.70	847.41E-6
	10.00000	12.00000	15.00000	-12.407	14.755	-89.999	-211.73	847.33E-6
	11.00000	12.00000	15.00000	-12.482	14.755	-89.999	-211.70	847.41E-6
	12.00000	12.00000	15.00000					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [m]	Calc Level [MOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
29.00000	12.00000	15.00000	-10.087	14.755	-332.52E-6	-0.85525	2.2025E-6
30.00000	12.00000	15.00000	-9.6905	14.755	-234.09E-6	-0.71210	1.8345E-6
31.00000	12.00000	15.00000	-9.1728	14.755	-169.51E-6	-0.60019	1.5466E-6
32.00000	12.00000	15.00000	-8.4731	14.755	-125.65E-6	-0.51118	1.3176E-6
33.00000	12.00000	15.00000	-7.4664	14.755	-95.005E-6	-0.43935	1.1326E-6
34.00000	12.00000	15.00000	-5.4855	14.755	-73.069E-6	-0.38065	0.0
35.00000	12.00000	15.00000	-3.5068	14.755	-57.040E-6	-0.33214	0.0
36.00000	12.00000	15.00000	-2.5068	14.755	-45.116E-6	-0.29168	0.0
37.00000	12.00000	15.00000	-1.8183	14.755	-36.104E-6	-0.25762	0.0
38.00000	12.00000	15.00000	-1.3168	14.755	-29.196E-6	-0.22875	0.0
39.00000	12.00000	15.00000	-0.94107	14.755	-23.835E-6	-0.20408	0.0
40.00000	12.00000	15.00000	-0.65530	14.755	-19.627E-6	-0.18289	0.0
41.00000	12.00000	15.00000	-0.43603	14.755	-16.289E-6	-0.16456	0.0
42.00000	12.00000	15.00000	-0.26700	14.755	-13.617E-6	-0.14863	0.0
43.00000	12.00000	15.00000	-0.13646	14.755	-11.460E-6	-0.13471	0.0
44.00000	12.00000	15.00000	-0.035753	14.755	-9.7035E-6	-0.12249	0.0
45.00000	12.00000	15.00000	0.041685	14.755	-8.2637E-6	-0.11172	0.0
46.00000	12.00000	15.00000	0.10086	14.755	-7.0751E-6	-0.10219	0.0
47.00000	12.00000	15.00000	0.14564	14.755	-6.0877E-6	-0.093725	0.0
48.00000	12.00000	15.00000	0.17904	14.755	-5.2625E-6	-0.086175	0.0
49.00000	12.00000	15.00000	0.20345	14.755	-4.5690E-6	-0.079421	0.0
50.00000	12.00000	15.00000	0.22073	14.755	-3.9832E-6	-0.073361	0.0
51.00000	12.00000	15.00000	0.23238	14.755	-3.4860E-6	-0.067906	0.0
52.00000	12.00000	15.00000	0.23958	14.755	-3.0620E-6	-0.062983	0.0
53.00000	12.00000	15.00000	0.24327	14.755	-2.6988E-6	-0.058527	0.0
54.00000	12.00000	15.00000	0.24422	14.755	-2.3865E-6	-0.054485	0.0
55.00000	12.00000	15.00000	0.24304	14.755	-2.1169E-6	-0.050810	0.0
-25.00000	13.00000	15.00000	0.21835	14.755	-8.2780E-6	-0.11185	0.0
-24.00000	13.00000	15.00000	0.22194	14.755	-9.7210E-6	-0.12264	0.0
-23.00000	13.00000	15.00000	0.22277	14.755	-11.481E-6	-0.13487	0.0
-22.00000	13.00000	15.00000	0.22563	14.755	-13.644E-6	-0.14882	0.0
-21.00000	13.00000	15.00000	0.22503	14.755	-16.322E-6	-0.16478	0.0
-20.00000	13.00000	15.00000	0.22219	14.755	-19.668E-6	-0.18314	0.0
-19.00000	13.00000	15.00000	0.21654	14.755	-23.886E-6	-0.20439	0.0
-18.00000	13.00000	15.00000	0.20734	14.755	-29.261E-6	-0.22910	0.0
-17.00000	13.00000	15.00000	0.19371	14.755	-36.186E-6	-0.25804	0.0
-16.00000	13.00000	15.00000	0.17454	14.755	-45.221E-6	-0.29217	0.0
-15.00000	13.00000	15.00000	0.14845	14.755	-57.175E-6	-0.33273	0.0
-14.00000	13.00000	15.00000	0.11374	14.755	-73.242E-6	-0.38135	0.0
-13.00000	13.00000	15.00000	0.068281	14.755	-95.228E-6	-0.44019	1.1348E-6
-12.00000	13.00000	15.00000	0.0093811	14.755	-125.94E-6	-0.51219	1.3201E-6
-11.00000	13.00000	15.00000	-0.066340	14.755	-169.89E-6	-0.60139	1.5497E-6
-10.00000	13.00000	15.00000	-0.16319	14.755	-234.58E-6	-0.71355	1.8382E-6
-9.00000	13.00000	15.00000	-0.28668	14.755	-333.16E-6	-0.85699	2.2070E-6
-8.00000	13.00000	15.00000	-0.44398	14.755	-489.87E-6	-1.0444	2.6882E-6
-7.00000	13.00000	15.00000	-0.64454	14.755	-752.74E-6	-1.2955	3.3324E-6
-6.00000	13.00000	15.00000	-0.90106	14.755	-0.0012257	-1.6438	4.2240E-6
-5.00000	13.00000	15.00000	-1.2311	14.755	-0.0021620	-2.1489	5.5135E-6
-4.00000	13.00000	15.00000	-1.6604	14.755	-0.0042869	-2.9306	7.4982E-6
-3.00000	13.00000	15.00000	-2.2289	14.755	-0.010246	-4.2666	10.855E-6
-2.00000	13.00000	15.00000	-3.0074	14.755	-0.034481	-6.9827	17.490E-6
-1.00000	13.00000	15.00000	-4.1531	14.755	-0.26257	-15.062	34.812E-6
0.00000	13.00000	15.00000	-6.3292	14.755	-45.000	-106.45	-422.16E-6
1.00000	13.00000	15.00000	-8.5047	14.755	-89.737	-197.84	-879.13E-6
2.00000	13.00000	15.00000	-9.6488	14.755	-89.965	-205.91	-861.83E-6
3.00000	13.00000	15.00000	-10.425	14.755	-89.989	-208.61	-855.24E-6
4.00000	13.00000	15.00000	-10.989	14.755	-89.995	-209.92	-851.94E-6
5.00000	13.00000	15.00000	-11.413	14.755	-89.998	-210.67	-850.04E-6
6.00000	13.00000	15.00000	-11.736	14.755	-89.998	-211.14	-848.86E-6
7.00000	13.00000	15.00000	-11.983	14.755	-89.999	-211.43	-848.11E-6
8.00000	13.00000	15.00000	-12.172	14.755	-89.999	-211.61	-847.64E-6
9.00000	13.00000	15.00000	-12.315	14.755	-89.999	-211.71	-847.38E-6
10.00000	13.00000	15.00000	-12.420	14.755	-89.999	-211.75	-847.30E-6
11.00000	13.00000	15.00000	-12.495	14.755	-89.999	-211.71	-847.38E-6
12.00000	13.00000	15.00000	-12.543	14.755	-89.999	-211.61	-847.64E-6
13.00000	13.00000	15.00000	-12.568	14.755	-89.999	-211.43	-848.11E-6
14.00000	13.00000	15.00000	-12.571	14.755	-89.998	-211.14	-848.86E-6
15.00000	13.00000	15.00000	-12.554	14.755	-89.998	-210.67	-850.04E-6
16.00000	13.00000	15.00000	-12.516	14.755	-89.995	-209.92	-851.94E-6
17.00000	13.00000	15.00000	-12.452	14.755	-89.989	-208.61	-855.24E-6
18.00000	13.00000	15.00000	-12.385	14.755	-89.965	-205.91	-861.83E-6
19.00000	13.00000	15.00000	-12.190	14.755	-89.737	-197.84	-879.13E-6
20.00000	13.00000	15.00000	-11.961	14.755	-45.000	-106.45	-422.16E-6
21.00000	13.00000	15.00000	-11.721	14.755	-0.26257	-15.062	34.812E-6
22.00000	13.00000	15.00000	-11.522	14.755	-0.034481	-6.9827	17.490E-6
23.00000	13.00000	15.00000	-11.364	14.755	-0.010246	-4.2666	10.855E-6
24.00000	13.00000	15.00000	-11.213	14.755	-0.0042869	-2.9306	7.4982E-6
25.00000	13.00000	15.00000	-11.053	14.755	-0.0021620	-2.1489	5.5135E-6
26.00000	13.00000	15.00000	-10.873	14.755	-0.0012257	-1.6438	4.2240E-6
27.00000	13.00000	15.00000	-10.663	14.755	-752.74E-6	-1.2955	3.3324E-6
28.00000	13.00000	15.00000	-10.410	14.755	-489.87E-6	-1.0444	2.6882E-6
29.00000	13.00000	15.00000	-10.097	14.755	-333.16E-6	-0.85699	2.2070E-6
30.00000	13.00000	15.00000	-9.6993	14.755	-234.58E-6	-0.71355	1.8382E-6
31.00000	13.00000	15.00000	-9.1810	14.755	-169.89E-6	-0.60139	1.5497E-6
32.00000	13.00000	15.00000	-8.4806	14.755	-125.94E-6	-0.51219	1.3201E-6
33.00000	13.00000	15.00000	-7.4732	14.755	-95.228E-6	-0.44019	1.1348E-6
34.00000	13.00000	15.00000	-5.4915	14.755	-73.242E-6	-0.38135	0.0
35.00000	13.00000	15.00000	-3.5121	14.755	-57.175E-6	-0.33273	0.0
36.00000	13.00000	15.00000	-2.5114	14.755	-45.221E-6	-0.29217	0.0
37.00000	13.00000	15.00000	-1.8222	14.755	-36.186E-6	-0.25804	0.0
38.00000	13.00000	15.00000	-1.3201	14.755	-29.261E-6	-0.22910	0.0
39.00000	13.00000	15.00000	-0.94381	14.755	-23.886E-6	-0.20439	0.0
40.00000	13.00000	15.00000	-0.65755	14.755	-19.668E-6	-0.18314	0.0
41.00000	13.00000	15.00000	-0.43786	14.755	-16.322E-6	-0.16478	0.0
42.00000	13.00000	15.00000	-0.26845	14.755	-13.644E-6	-0.14882	0.0
43.00000	13.00000	15.00000	-0.13761	14.755	-11.481E-6	-0.13487	0.0
44.00000	13.00000	15.00000	-0.036645				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location		Displacement		Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-3.00000	14.00000	15.00000	-2.2241	14.755	-0.010243	-4.2617	10.842E-6
	-2.00000	14.00000	15.00000	-3.0018	14.755	-0.034477	-6.9769	17.475E-6
	-1.00000	14.00000	15.00000	-4.1468	14.755	-0.26257	-15.055	34.795E-6
	0.00000	14.00000	15.00000	-6.3220	14.755	-45.000	-106.45	-422.18E-6
	1.00000	14.00000	15.00000	-8.4966	14.755	-89.737	-197.83	-879.15E-6
	2.00000	14.00000	15.00000	-9.6400	14.755	-89.965	-205.90	-861.86E-6
	3.00000	14.00000	15.00000	-10.415	14.755	-89.989	-208.60	-855.27E-6
	4.00000	14.00000	15.00000	-10.979	14.755	-89.995	-209.91	-851.97E-6
	5.00000	14.00000	15.00000	-11.402	14.755	-89.998	-210.66	-850.07E-6
	6.00000	14.00000	15.00000	-11.724	14.755	-89.998	-211.12	-848.89E-6
	7.00000	14.00000	15.00000	-11.971	14.755	-89.999	-211.42	-848.14E-6
	8.00000	14.00000	15.00000	-12.160	14.755	-89.999	-211.60	-847.67E-6
	9.00000	14.00000	15.00000	-12.302	14.755	-89.999	-211.70	-847.41E-6
	10.00000	14.00000	15.00000	-12.407	14.755	-89.999	-211.73	-847.33E-6
	11.00000	14.00000	15.00000	-12.482	14.755	-89.999	-211.70	-847.41E-6
	12.00000	14.00000	15.00000	-12.530	14.755	-89.999	-211.60	-847.67E-6
	13.00000	14.00000	15.00000	-12.554	14.755	-89.999	-211.42	-848.14E-6
	14.00000	14.00000	15.00000	-12.558	14.755	-89.998	-211.12	-848.89E-6
	15.00000	14.00000	15.00000	-12.541	14.755	-89.998	-210.66	-850.07E-6
	16.00000	14.00000	15.00000	-12.502	14.755	-89.995	-209.91	-851.97E-6
	17.00000	14.00000	15.00000	-12.439	14.755	-89.989	-208.60	-855.27E-6
	18.00000	14.00000	15.00000	-12.342	14.755	-89.965	-205.90	-861.86E-6
	19.00000	14.00000	15.00000	-12.177	14.755	-89.737	-197.83	-879.15E-6
	20.00000	14.00000	15.00000	-11.948	14.755	-45.000	-106.45	-422.18E-6
	21.00000	14.00000	15.00000	-11.708	14.755	-0.26257	-15.055	34.795E-6
	22.00000	14.00000	15.00000	-11.509	14.755	-0.034477	-6.9769	17.475E-6
	23.00000	14.00000	15.00000	-11.352	14.755	-0.010243	-4.2617	10.842E-6
	24.00000	14.00000	15.00000	-11.201	14.755	-0.0042847	-2.9264	7.4873E-6
	25.00000	14.00000	15.00000	-11.041	14.755	-0.0021603	-2.1453	5.5043E-6
	26.00000	14.00000	15.00000	-10.862	14.755	-0.0012244	-1.6408	4.2163E-6
	27.00000	14.00000	15.00000	-10.653	14.755	-751.67E-6	-1.2390	3.3260E-6
	28.00000	14.00000	15.00000	-10.400	14.755	-489.05E-6	-1.0423	2.6828E-6
	29.00000	14.00000	15.00000	-10.087	14.755	-332.52E-6	-0.85525	2.2025E-6
	30.00000	14.00000	15.00000	-9.6905	14.755	-234.09E-6	-0.71210	1.8345E-6
	31.00000	14.00000	15.00000	-9.1728	14.755	-169.51E-6	-0.60019	1.5466E-6
	32.00000	14.00000	15.00000	-8.4731	14.755	-125.65E-6	-0.51118	1.3176E-6
	33.00000	14.00000	15.00000	-7.4664	14.755	-95.005E-6	-0.43935	1.1326E-6
	34.00000	14.00000	15.00000	-5.4855	14.755	-73.069E-6	-0.38065	0.0
	35.00000	14.00000	15.00000	-3.5068	14.755	-57.040E-6	-0.33214	0.0
	36.00000	14.00000	15.00000	-2.5068	14.755	-45.116E-6	-0.29168	0.0
	37.00000	14.00000	15.00000	-1.8183	14.755	-36.104E-6	-0.25762	0.0
	38.00000	14.00000	15.00000	-1.3168	14.755	-29.196E-6	-0.22875	0.0
	39.00000	14.00000	15.00000	-0.94107	14.755	-23.835E-6	-0.20408	0.0
	40.00000	14.00000	15.00000	-0.65530	14.755	-19.627E-6	-0.18289	0.0
	41.00000	14.00000	15.00000	-0.43603	14.755	-16.289E-6	-0.16456	0.0
	42.00000	14.00000	15.00000	-0.26700	14.755	-13.617E-6	-0.14863	0.0
	43.00000	14.00000	15.00000	-0.13646	14.755	-11.460E-6	-0.13471	0.0
	44.00000	14.00000	15.00000	-0.035753	14.755	-9.7035E-6	-0.12249	0.0
	45.00000	14.00000	15.00000	0.041685	14.755	-8.2637E-6	-0.11172	0.0
	46.00000	14.00000	15.00000	0.10086	14.755	-7.0751E-6	-0.10219	0.0
	47.00000	14.00000	15.00000	0.14564	14.755	-6.0877E-6	-0.093725	0.0
	48.00000	14.00000	15.00000	0.17904	14.755	-5.2625E-6	-0.086175	0.0
	49.00000	14.00000	15.00000	0.20345	14.755	-4.5690E-6	-0.079421	0.0
	50.00000	14.00000	15.00000	0.22073	14.755	-3.9832E-6	-0.073361	0.0
	51.00000	14.00000	15.00000	0.23238	14.755	-3.4860E-6	-0.067906	0.0
	52.00000	14.00000	15.00000	0.23958	14.755	-3.0620E-6	-0.062993	0.0
	53.00000	14.00000	15.00000	0.24327	14.755	-2.6988E-6	-0.058527	0.0
	54.00000	14.00000	15.00000	0.24422	14.755	-2.3865E-6	-0.054485	0.0
	55.00000	14.00000	15.00000	0.24304	14.755	-2.1169E-6	-0.050810	0.0
	-25.00000	15.00000	15.00000	0.21811	14.755	-8.2210E-6	-0.11136	0.0
	-24.00000	15.00000	15.00000	0.22173	14.755	-9.6513E-6	-0.12207	0.0
	-23.00000	15.00000	15.00000	0.22430	14.755	-11.395E-6	-0.13422	0.0
	-22.00000	15.00000	15.00000	0.22551	14.755	-13.538E-6	-0.14806	0.0
	-21.00000	15.00000	15.00000	0.22499	14.755	-16.191E-6	-0.16390	0.0
	-20.00000	15.00000	15.00000	0.22226	14.755	-19.504E-6	-0.18212	0.0
	-19.00000	15.00000	15.00000	0.21674	14.755	-23.618E-6	-0.20318	0.0
	-18.00000	15.00000	15.00000	0.20772	14.755	-29.002E-6	-0.22769	0.0
	-17.00000	15.00000	15.00000	0.19431	14.755	-35.857E-6	-0.25638	0.0
	-16.00000	15.00000	15.00000	0.17543	14.755	-44.801E-6	-0.29020	0.0
	-15.00000	15.00000	15.00000	0.14970	14.755	-56.637E-6	-0.33039	0.0
	-14.00000	15.00000	15.00000	0.11544	14.755	-72.549E-6	-0.37855	0.0
	-13.00000	15.00000	15.00000	0.070535	14.755	-94.332E-6	-0.43684	1.1262E-6
	-12.00000	15.00000	15.00000	0.012326	14.755	-124.78E-6	-0.50818	1.3098E-6
	-11.00000	15.00000	15.00000	-0.062548	14.755	-168.37E-6	-0.59657	1.5373E-6
	-10.00000	15.00000	15.00000	-0.15836	14.755	-232.61E-6	-0.70774	1.8233E-6
	-9.00000	15.00000	15.00000	-0.28061	14.755	-330.59E-6	-0.85000	2.1889E-6
	-8.00000	15.00000	15.00000	-0.43642	14.755	-486.52E-6	-1.0359	2.6665E-6
	-7.00000	15.00000	15.00000	-0.63522	14.755	-748.40E-6	-1.2854	3.3064E-6
	-6.00000	15.00000	15.00000	-0.88969	14.755	-0.0012201	-1.6316	4.1927E-6
	-5.00000	15.00000	15.00000	-1.2174	14.755	-0.0021548	-2.1345	5.4762E-6
	-4.00000	15.00000	15.00000	-1.6440	14.755	-0.0042779	-2.9134	7.4541E-6
	-3.00000	15.00000	15.00000	-2.2096	14.755	-0.010235	-4.2465	10.803E-6
	-2.00000	15.00000	15.00000	-2.9849	14.755	-0.034467	-6.9593	17.430E-6
	-1.00000	15.00000	15.00000	-4.1274	14.755	-0.26256	-15.035	34.743E-6
	0.00000	15.00000	15.00000	-6.3000	14.755	-45.000	-106.42	-422.23E-6
	1.00000	15.00000	15.00000	-8.4721	14.755	-89.737	-197.81	-879.22E-6
	2.00000	15.00000	15.00000	-9.6130	14.755	-89.965	-205.87	-861.93E-6
	3.00000	15.00000	15.00000	-10.386	14.755	-89.989	-208.57	-855.34E-6
	4.00000	15.00000	15.00000	-10.947	14.755	-89.995	-209.88	-852.06E-6
	5.00000	15.00000	15.00000	-11.369	14.755	-89.997	-210.63	-850.16E-6
	6.00000	15.00000	15.00000	-11.689	14.755	-89.998	-211.09	-848.98E-6
	7.00000	15.00000	15.00000	-11.935	14.755	-89.999	-211.38	-848.23E-6
	8.00000	15.00000	15.00000	-12.122	14.755	-89.999	-211.56	-847.77E-6

Oasys

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.

Sheet No.

Rev.

J15249

Drg. Ref.

Made by

Date

Checked

MP

Name	Location	Displacement	Stresses			
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²] Vert Strain [-]
46.00000	15.00000	15.00000	0.10239	14.755	-7.0400E-6	-0.10187 0.0
47.00000	15.00000	15.00000	0.14676	14.755	-6.0586E-6	-0.093443 0.0
48.00000	15.00000	15.00000	0.17984	14.755	-5.2384E-6	-0.085928 0.0
49.00000	15.00000	15.00000	0.20398	14.755	-4.5489E-6	-0.079203 0.0
50.00000	15.00000	15.00000	0.22151	14.755	-3.9664E-6	-0.073160 0.0
51.00000	15.00000	15.00000	0.23255	14.755	-3.4719E-6	-0.067735 0.0
52.00000	15.00000	15.00000	0.23963	14.755	-3.0501E-6	-0.062831 0.0
53.00000	15.00000	15.00000	0.24323	14.755	-2.6888E-6	-0.058393 0.0
54.00000	15.00000	15.00000	0.24411	14.755	-2.3780E-6	-0.054365 0.0
55.00000	15.00000	15.00000	0.24288	14.755	-2.1096E-6	-0.050702 0.0
-25.00000	16.00000	15.00000	0.21781	14.755	-8.1502E-6	-0.11074 0.0
-24.00000	16.00000	15.00000	0.22146	14.755	-9.5648E-6	-0.12137 0.0
-23.00000	16.00000	15.00000	0.22408	14.755	-11.289E-6	-0.13341 0.0
-22.00000	16.00000	15.00000	0.22537	14.755	-13.407E-6	-0.14712 0.0
-21.00000	16.00000	15.00000	0.22495	14.755	-16.028E-6	-0.16281 0.0
-20.00000	16.00000	15.00000	0.22234	14.755	-19.300E-6	-0.18085 0.0
-19.00000	16.00000	15.00000	0.21699	14.755	-23.425E-6	-0.20169 0.0
-18.00000	16.00000	15.00000	0.20819	14.755	-28.679E-6	-0.22594 0.0
-17.00000	16.00000	15.00000	0.19506	14.755	-35.447E-6	-0.25431 0.0
-16.00000	16.00000	15.00000	0.17653	14.755	-44.277E-6	-0.28775 0.0
-15.00000	16.00000	15.00000	0.15125	14.755	-55.964E-6	-0.32747 0.0
-14.00000	16.00000	15.00000	0.11755	14.755	-71.680E-6	-0.37507 0.0
-13.00000	16.00000	15.00000	0.073345	14.755	-93.205E-6	-0.43268 1.1154E-6
-12.00000	16.00000	15.00000	0.016003	14.755	-121.31E-6	-0.50317 1.2969E-6
-11.00000	16.00000	15.00000	-0.057803	14.755	-166.45E-6	-0.59054 1.5218E-6
-10.00000	16.00000	15.00000	-0.15231	14.755	-230.08E-6	-0.70045 1.8045E-6
-9.00000	16.00000	15.00000	-0.27298	14.755	-327.27E-6	-0.84119 2.1663E-6
-8.00000	16.00000	15.00000	-0.42689	14.755	-482.16E-6	-1.0253 2.6390E-6
-7.00000	16.00000	15.00000	-0.62844	14.755	-742.69E-6	-1.2725 3.2732E-6
-6.00000	16.00000	15.00000	-0.87526	14.755	-0.0012127	-1.6161 4.1528E-6
-5.00000	16.00000	15.00000	-1.1999	14.755	-0.0021452	-2.1159 5.4284E-6
-4.00000	16.00000	15.00000	-1.6231	14.755	-0.0042655	-2.8913 7.3971E-6
-3.00000	16.00000	15.00000	-2.1848	14.755	-0.010219	-4.2203 10.736E-6
-2.00000	16.00000	15.00000	-2.9560	14.755	-0.034448	-6.9287 17.351E-6
-1.00000	16.00000	15.00000	-4.0941	14.755	-0.26253	-15.000 34.652E-6
0.00000	16.00000	15.00000	-6.2622	14.755	-45.000	-106.38 -422.34E-6
1.00000	16.00000	15.00000	-8.4298	14.755	-89.737	-197.76 -879.33E-6
2.00000	16.00000	15.00000	-9.5663	14.755	-89.965	-205.82 -862.06E-6
3.00000	16.00000	15.00000	-10.335	14.755	-89.989	-208.52 -855.48E-6
4.00000	16.00000	15.00000	-10.893	14.755	-89.995	-209.82 -852.20E-6
5.00000	16.00000	15.00000	-11.311	14.755	-89.997	-210.57 -850.31E-6
6.00000	16.00000	15.00000	-11.628	14.755	-89.998	-211.03 -849.14E-6
7.00000	16.00000	15.00000	-11.871	14.755	-89.999	-211.32 -848.40E-6
8.00000	16.00000	15.00000	-12.057	14.755	-89.999	-211.50 -847.94E-6
9.00000	16.00000	15.00000	-12.196	14.755	-89.999	-211.60 -847.69E-6
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11.00000	16.00000	15.00000	-12.372	14.755	-89.999	-211.60 -847.69E-6
12.00000	16.00000	15.00000	-12.419	14.755	-89.999	-211.50 -847.94E-6
13.00000	16.00000	15.00000	-12.443	14.755	-89.999	-211.32 -848.40E-6
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15.00000	16.00000	15.00000	-12.429	14.755	-89.997	-210.57 -850.31E-6
16.00000	16.00000	15.00000	-12.391	14.755	-89.995	-209.82 -852.20E-6
17.00000	16.00000	15.00000	-12.328	14.755	-89.989	-208.52 -855.48E-6
18.00000	16.00000	15.00000	-12.233	14.755	-89.965	-205.82 -862.06E-6
19.00000	16.00000	15.00000	-12.069	14.755	-89.737	-197.76 -879.33E-6
20.00000	16.00000	15.00000	-11.842	14.755	-45.000	-106.38 -422.34E-6
21.00000	16.00000	15.00000	-11.604	14.755	-0.26253	-15.000 34.652E-6
22.00000	16.00000	15.00000	-11.407	14.755	-0.034448	-6.9287 17.351E-6
23.00000	16.00000	15.00000	-11.252	14.755	-0.010219	-4.2203 10.736E-6
24.00000	16.00000	15.00000	-11.104	14.755	-0.0042655	-2.8913 7.3971E-6
25.00000	16.00000	15.00000	-10.947	14.755	-0.0021452	-2.1159 5.4284E-6
26.00000	16.00000	15.00000	-10.771	14.755	-0.0012127	-1.6161 4.1528E-6
27.00000	16.00000	15.00000	-10.565	14.755	-742.69E-6	-1.2725 3.2732E-6
28.00000	16.00000	15.00000	-10.316	14.755	-482.16E-6	-1.0253 2.6390E-6
29.00000	16.00000	15.00000	-10.008	14.755	-327.27E-6	-0.84119 2.1663E-6
30.00000	16.00000	15.00000	-9.6164	14.755	-230.08E-6	-0.70045 1.8045E-6
31.00000	16.00000	15.00000	-9.1042	14.755	-166.45E-6	-0.59054 1.5218E-6
32.00000	16.00000	15.00000	-8.4104	14.755	-121.31E-6	-0.50317 1.2969E-6
33.00000	16.00000	15.00000	-7.4099	14.755	-93.205E-6	-0.43268 1.1154E-6
34.00000	16.00000	15.00000	-5.4352	14.755	-71.680E-6	-0.37507 0.0
35.00000	16.00000	15.00000	-3.4628	14.755	-55.964E-6	-0.32747 0.0
36.00000	16.00000	15.00000	-2.4688	14.755	-44.277E-6	-0.28775 0.0
37.00000	16.00000	15.00000	-1.7860	14.755	-35.447E-6	-0.25431 0.0
38.00000	16.00000	15.00000	-1.2897	14.755	-28.679E-6	-0.22594 0.0
39.00000	16.00000	15.00000	-0.91865	14.755	-23.425E-6	-0.20169 0.0
40.00000	16.00000	15.00000	-0.63699	14.755	-19.300E-6	-0.18085 0.0
41.00000	16.00000	15.00000	-0.42126	14.755	-16.028E-6	-0.16281 0.0
42.00000	16.00000	15.00000	-0.25223	14.755	-13.407E-6	-0.14712 0.0
43.00000	16.00000	15.00000	-0.12721	14.755	-11.289E-6	-0.13341 0.0
44.00000	16.00000	15.00000	-0.028576	14.755	-9.5648E-6	-0.12137 0.0
45.00000	16.00000	15.00000	0.047163	14.755	-8.1502E-6	-0.11074 0.0
46.00000	16.00000	15.00000	0.11496	14.755	-6.9818E-6	-0.10114 0.0
47.00000	16.00000	15.00000	0.14863	14.755	-6.0106E-6	-0.092976 0.0
48.00000	16.00000	15.00000	0.18116	14.755	-5.1985E-6	-0.085518 0.0
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50.00000	16.00000	15.00000	0.22161	14.755	-3.9386E-6	-0.072849 0.0
51.00000	16.00000	15.00000	0.23283	14.755	-3.4485E-6	-0.067435 0.0
52.00000	16.00000	15.00000	0.23970	14.755	-3.0304E-6	-0.062580 0.0
53.00000	16.00000	15.00000	0.24315	14.755	-2.6720E-6	-0.058169 0.0
54.00000	16.00000	15.00000	0.24392	14.755	-2.3638E-6	-0.054166 0.0
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-25.00000	17.00000	15.00000	0.21738	14.755	-8.0521E-6	-0.10990 0.0
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-21.00000	17.00000	15.00000	0.22488	14.755	-15.801E-6	-0.16130 0.0
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-19.00000	17.00000	15.00000	0.21734	14.755	-23.070E-6	-0.19963 0.0
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-3.00000	17.00000	15.00000	-2.1489	14.755	-0.010194	-4.1817 10.636E-6
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1.00000	17.00000	15.00000	-8.3674	14.755	-89.737	-197.69 -879.51E-6
2.00000	17.00000	15.00000	-9.4973	14.755	-89.965	-205.75 -862.25E-6
3.00000	17.00000	15.00000	-10.260	14.755	-89.989	-208.43 -855.69E-6
4.00000	17.00000	15.00000	-10.812	14.755	-89.995	-209.73 -852.43E-6
5.00000	17.00000	15.00000	-11.225	14.755	-89.997	-210.47 -850.55E-6
6.00000	17.00000	15.00000	-11.538	14.755	-89.998	-210.93 -849.39E-6
7.00000	17.00000	15.00000	-11.778	14.755	-89.999	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [m]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
14.00000	17.00000	15.00000	-12.342	14.755	-89.998	-210.93	-849.39E-6
15.00000	17.00000	15.00000	-12.326	14.755	-89.997	-210.47	-850.55E-6
16.00000	17.00000	15.00000	-12.288	14.755	-89.995	-209.73	-852.43E-6
17.00000	17.00000	15.00000	-12.226	14.755	-89.989	-208.43	-855.69E-6
18.00000	17.00000	15.00000	-12.131	14.755	-89.965	-205.75	-862.25E-6
19.00000	17.00000	15.00000	-11.969	14.755	-89.737	-197.69	-879.51E-6
20.00000	17.00000	15.00000	-11.743	14.755	-45.000	-106.32	-422.49E-6
21.00000	17.00000	15.00000	-11.506	14.755	-0.26250	-14.947	34.516E-6
22.00000	17.00000	15.00000	-11.311	14.755	-0.034416	-6.8832	17.234E-6
23.00000	17.00000	15.00000	-11.159	14.755	-0.010194	-4.1817	10.636E-6
24.00000	17.00000	15.00000	-11.012	14.755	-0.0042461	-2.8589	7.3137E-6
25.00000	17.00000	15.00000	-10.858	14.755	-0.0021303	-2.0889	5.3590E-6
26.00000	17.00000	15.00000	-10.685	14.755	-0.0012014	-1.5938	4.0954E-6
27.00000	17.00000	15.00000	-10.482	14.755	-734.13E-6	-1.2541	3.2259E-6
28.00000	17.00000	15.00000	-10.238	14.755	-475.73E-6	-1.0101	2.6001E-6
29.00000	17.00000	15.00000	-9.9339	14.755	-322.43E-6	-0.82875	2.1342E-6
30.00000	17.00000	15.00000	-9.5467	14.755	-226.44E-6	-0.69021	1.7781E-6
31.00000	17.00000	15.00000	-9.0397	14.755	-163.70E-6	-0.58208	1.5000E-6
32.00000	17.00000	15.00000	-8.3515	14.755	-121.22E-6	-0.49617	1.2789E-6
33.00000	17.00000	15.00000	-7.3569	14.755	-91.612E-6	-0.42687	1.1004E-6
34.00000	17.00000	15.00000	-5.3883	14.755	-70.459E-6	-0.37023	0.0
35.00000	17.00000	15.00000	-3.4219	14.755	-55.022E-6	-0.32342	0.0
36.00000	17.00000	15.00000	-2.4337	14.755	-43.546E-6	-0.28434	0.0
37.00000	17.00000	15.00000	-1.7563	14.755	-34.875E-6	-0.25144	0.0
38.00000	17.00000	15.00000	-1.2650	14.755	-28.230E-6	-0.22350	0.0
39.00000	17.00000	15.00000	-0.89834	14.755	-23.070E-6	-0.19363	0.0
40.00000	17.00000	15.00000	-0.62051	14.755	-19.018E-6	-0.17908	0.0
41.00000	17.00000	15.00000	-0.40805	14.755	-15.801E-6	-0.16130	0.0
42.00000	17.00000	15.00000	-0.24476	14.755	-13.224E-6	-0.14582	0.0
43.00000	17.00000	15.00000	-0.11902	14.755	-11.142E-6	-0.13228	0.0
44.00000	17.00000	15.00000	-0.022249	14.755	-9.4448E-6	-0.12035	0.0
45.00000	17.00000	15.00000	0.051972	14.755	-8.0521E-6	-0.10990	0.0
46.00000	17.00000	15.00000	0.10855	14.755	-6.9011E-6	-0.10060	0.0
47.00000	17.00000	15.00000	0.15124	14.755	-5.9439E-6	-0.092328	0.0
48.00000	17.00000	15.00000	0.18300	14.755	-5.1432E-6	-0.084948	0.0
49.00000	17.00000	15.00000	0.20610	14.755	-4.4696E-6	-0.078341	0.0
50.00000	17.00000	15.00000	0.22236	14.755	-3.9000E-6	-0.072406	0.0
51.00000	17.00000	15.00000	0.23322	14.755	-3.4161E-6	-0.067060	0.0
52.00000	17.00000	15.00000	0.23981	14.755	-3.0030E-6	-0.062232	0.0
53.00000	17.00000	15.00000	0.24304	14.755	-2.6489E-6	-0.057859	0.0
54.00000	17.00000	15.00000	0.24365	14.755	-2.3440E-6	-0.053888	0.0
55.00000	17.00000	15.00000	0.24222	14.755	-2.0807E-6	-0.050275	0.0
-25.00000	18.00000	15.00000	0.21683	14.755	-7.9276E-6	-0.10882	0.0
-24.00000	18.00000	15.00000	0.22060	14.755	-9.2927E-6	-0.11915	0.0
-23.00000	18.00000	15.00000	0.22339	14.755	-10.955E-6	-0.13085	0.0
-22.00000	18.00000	15.00000	0.22490	14.755	-12.992E-6	-0.14416	0.0
-21.00000	18.00000	15.00000	0.22478	14.755	-15.514E-6	-0.15937	0.0
-20.00000	18.00000	15.00000	0.22258	14.755	-18.658E-6	-0.17684	0.0
-19.00000	18.00000	15.00000	0.21776	14.755	-22.618E-6	-0.19700	0.0
-18.00000	18.00000	15.00000	0.20964	14.755	-27.657E-6	-0.22041	0.0
-17.00000	18.00000	15.00000	0.19739	14.755	-34.146E-6	-0.24778	0.0
-16.00000	18.00000	15.00000	0.17998	14.755	-42.609E-6	-0.28001	0.0
-15.00000	18.00000	15.00000	0.15612	14.755	-53.811E-6	-0.31826	0.0
-14.00000	18.00000	15.00000	0.12422	14.755	-68.883E-6	-0.36405	0.0
-13.00000	18.00000	15.00000	0.082258	14.755	-89.545E-6	-0.41944	1.0813E-6
-12.00000	18.00000	15.00000	0.027714	14.755	-118.49E-6	-0.48720	1.2558E-6
-11.00000	18.00000	15.00000	-0.042625	14.755	-160.07E-6	-0.57121	1.4720E-6
-10.00000	18.00000	15.00000	-0.13286	14.755	-221.58E-6	-0.67697	1.7440E-6
-9.00000	18.00000	15.00000	-0.24830	14.755	-315.89E-6	-0.81259	2.0926E-6
-8.00000	18.00000	15.00000	-0.39587	14.755	-466.89E-6	-0.99036	2.5492E-6
-7.00000	18.00000	15.00000	-0.58479	14.755	-722.15E-6	-1.2299	3.1635E-6
-6.00000	18.00000	15.00000	-0.82756	14.755	-0.0011851	-1.5641	4.0189E-6
-5.00000	18.00000	15.00000	-1.1417	14.755	-0.0021084	-2.0525	5.2654E-6
-4.00000	18.00000	15.00000	-1.5526	14.755	-0.0042167	-2.8146	7.1999E-6
-3.00000	18.00000	15.00000	-2.1006	14.755	-0.010156	-4.1282	10.499E-6
-2.00000	18.00000	15.00000	-2.8156	14.755	-0.034366	-6.8193	17.070E-6
-1.00000	18.00000	15.00000	-3.9788	14.755	-0.26243	-14.872	34.323E-6
0.00000	18.00000	15.00000	-6.1304	14.755	-45.000	-106.23	-422.72E-6
1.00000	18.00000	15.00000	-8.2815	14.755	-89.737	-197.60	-879.76E-6
2.00000	18.00000	15.00000	-9.4021	14.755	-89.965	-205.64	-862.53E-6
3.00000	18.00000	15.00000	-10.156	14.755	-89.989	-208.33	-856.00E-6
4.00000	18.00000	15.00000	-10.700	14.755	-89.995	-209.61	-852.76E-6
5.00000	18.00000	15.00000	-11.106	14.755	-89.997	-210.34	-850.90E-6
6.00000	18.00000	15.00000	-11.414	14.755	-89.998	-210.79	-849.76E-6
7.00000	18.00000	15.00000	-11.648	14.755	-89.999	-211.07	-849.03E-6
8.00000	18.00000	15.00000	-11.826	14.755	-89.999	-211.25	-848.58E-6
9.00000	18.00000	15.00000	-11.961	14.755	-89.999	-211.34	-848.34E-6
10.00000	18.00000	15.00000	-12.059	14.755	-89.999	-211.37	-848.26E-6
11.00000	18.00000	15.00000	-12.129	14.755	-89.999	-211.34	-848.34E-6
12.00000	18.00000	15.00000	-12.173	14.755	-89.999	-211.25	-848.58E-6
13.00000	18.00000	15.00000	-12.196	14.755	-89.999	-211.07	-849.03E-6
14.00000	18.00000	15.00000	-12.199	14.755	-89.998	-210.79	-849.76E-6
15.00000	18.00000	15.00000	-12.182	14.755	-89.997	-210.34	-850.90E-6
16.00000	18.00000	15.00000	-12.145	14.755	-89.995	-209.61	-852.76E-6
17.00000	18.00000	15.00000	-12.085	14.755	-89.999	-208.33	-856.00E-6
18.00000	18.00000	15.00000	-11.991	14.755	-89.965	-205.64	-862.53E-6
19.00000	18.00000	15.00000	-11.830	14.755	-89.737	-197.60	-879.76E-6
20.00000	18.00000	15.00000	-11.606	14.755	-45.000	-106.23	-422.72E-6
21.00000	18.00000	15.00000	-11.372	14.755	-0.26243	-14.872	34.323E-6
22.00000	18.00000	15.00000	-11.179	14.755	-0.034366	-6.8193	17.070E-6
23.00000	18.00000	15.00000	-11.029	14.755	-0.010156	-4.1282	10.499E-6
24.00000	18.00000	15.00000	-10.886	14.755	-0.0042167	-2.8146	7.1999E-6
25.00000	18.00000	15.00000	-10.735	14.755	-0.0021084	-2.0525	5.2654E-6
26.00000	18.00000	15.00000	-10.566	14.755	-0.0011851	-1.5641	4.0189E-6
27.00000	18.00000	15.00000	-10.368	14.755	-722.15E-6	-1.2299	3.1635E-6
28.00000	18.00000	15.00000	-10.129	14.755	-466.89E-6	-0.99036	2.5492E-6
29.00000	18.00000	15.00000	-9.8304	14.755	-315.89E-6	-0.81259	2.0926E-6
30.00000	18.00000	15.00000	-9.4497	14.755	-221.58E-6	-0.67697	1.7440E-6
31.00000	18.00000	15.00000	-8.9501	14.755	-160.07E-6	-0.57121	1.4720E-6
32.00000	18.00000	15.00000	-8.2698	14.755	-118.49E-6	-0.48720	1.2558E-6
33.00000	18.00000	15.00000	-7.2836	14.755	-89.545E-6	-0.41944	1.0813E-6
34.00000	18.00000	15.00000	-5.3236	14.755	-68.883E-6	-0.36405	0.0
35.00000	18.00000	15.00000	-3.3658	14.755	-53.811E-6	-0.31826	0.0
36.00000	18.00000	15.00000	-2.3859	14.755	-42.609E-6	-0.28001	0.0
37.00000	18.00000	15.00000	-1.7163	14.755	-34.146E-6	-0.24778	0.0
38.00000	18.00000	15.00000	-1.2318	14.755	-27.657E-6	-0.22041	0.0
39.00000	18.00000	15.00000	-0.87130	14.755	-22.618E-6	-0.19700	0.0
40.00000	18.00000	15.00000	-0.59872	14.755	-18.658E-6	-0.17684	0.0
41.00000	18.00000	15.00000	-0.39069	14.755	-15.514E-6	-0.15937	0.0
42.00000	18.00000	15.00000	-0.23109	14.755	-12.993E-6	-0.14416	0.0
43.00000	18.00000	15.00000	-0.10837	14.755	-10.955E-6	-0.13085	0.0
44.00000	18.00000	15.00000	-0.014069	14.755	-9.2927E-6	-0.11915	0.0
45.00000	18.00000	15.00000	0.058166	14.755	-7.9276E-6	-0.10882	0.0
46.00000	18.00000	15.00000	0.11315	14.755	-6.7988E-6	-0.099656	0.0
47.00000	18.00000	15.00000	0.15458	14.755	-5.8594E-6	-0.091503	0.0
48.00000	18.00000	15.00000	0.18534	14.755	-5.0731E-6	-0.084224	0.0
49.00000	18.00000	15.00000	0.20766	14.755	-4.4111E-6	-0.077702	0.0
50.00000	18.00000	15.00000	0.22331</				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-18.00000	19.00000	15.00000	0.21059	14.755	-26.966E-6	-0.21669	0.0
-17.00000	19.00000	15.00000	0.19894	14.755	-33.262E-6	-0.24339	0.0
-16.00000	19.00000	15.00000	0.18229	14.755	-41.472E-6	-0.27479	0.0
-15.00000	19.00000	15.00000	0.15940	14.755	-52.335E-6	-0.31203	0.0
-14.00000	19.00000	15.00000	0.12872	14.755	-66.951E-6	-0.35658	0.0
-13.00000	19.00000	15.00000	0.08829	14.755	-86.996E-6	-0.41044	1.0581E-6
-12.00000	19.00000	15.00000	0.035690	14.755	-115.09E-6	-0.47630	1.2277E-6
-11.00000	19.00000	15.00000	-0.032230	14.755	-155.50E-6	-0.55793	1.4378E-6
-10.00000	19.00000	15.00000	-0.11946	14.755	-215.39E-6	-0.66073	1.7022E-6
-9.00000	19.00000	15.00000	-0.23118	14.755	-307.42E-6	-0.79262	2.0412E-6
-8.00000	19.00000	15.00000	-0.37418	14.755	-455.20E-6	-0.96571	2.4857E-6
-7.00000	19.00000	15.00000	-0.55751	14.755	-705.92E-6	-1.1993	3.0849E-6
-6.00000	19.00000	15.00000	-0.79354	14.755	-0.0011625	-1.5262	3.9214E-6
-5.00000	19.00000	15.00000	-1.0996	14.755	-0.0020768	-2.0054	5.1444E-6
-4.00000	19.00000	15.00000	-1.5012	14.755	-0.0041729	-2.7563	7.0501E-6
-3.00000	19.00000	15.00000	-2.0383	14.755	-0.010096	-4.0565	10.314E-6
-2.00000	19.00000	15.00000	-2.7824	14.755	-0.034286	-6.7320	16.846E-6
-1.00000	19.00000	15.00000	-3.8914	14.755	-0.26233	-14.767	34.055E-6
0.00000	19.00000	15.00000	-6.0294	14.755	-45.000	-106.11	-423.03E-6
1.00000	19.00000	15.00000	-8.1670	14.755	-89.737	-197.45	-880.12E-6
2.00000	19.00000	15.00000	-9.2746	14.755	-89.989	-205.48	-862.94E-6
3.00000	19.00000	15.00000	-10.016	14.755	-89.989	-208.14	-856.44E-6
4.00000	19.00000	15.00000	-10.550	14.755	-89.995	-209.42	-853.24E-6
5.00000	19.00000	15.00000	-10.947	14.755	-89.997	-210.14	-851.40E-6
6.00000	19.00000	15.00000	-11.247	14.755	-89.998	-210.58	-850.28E-6
7.00000	19.00000	15.00000	-11.475	14.755	-89.998	-210.99	-849.57E-6
8.00000	19.00000	15.00000	-11.648	14.755	-89.999	-211.03	-849.13E-6
9.00000	19.00000	15.00000	-11.778	14.755	-89.999	-211.13	-848.89E-6
10.00000	19.00000	15.00000	-11.873	14.755	-89.999	-211.16	-848.82E-6
11.00000	19.00000	15.00000	-11.941	14.755	-89.999	-211.13	-848.89E-6
12.00000	19.00000	15.00000	-11.984	14.755	-89.999	-211.03	-849.13E-6
13.00000	19.00000	15.00000	-12.006	14.755	-89.998	-210.86	-849.57E-6
14.00000	19.00000	15.00000	-12.008	14.755	-89.998	-210.58	-850.28E-6
15.00000	19.00000	15.00000	-11.992	14.755	-89.997	-210.14	-851.40E-6
16.00000	19.00000	15.00000	-11.956	14.755	-89.995	-209.42	-853.24E-6
17.00000	19.00000	15.00000	-11.896	14.755	-89.989	-208.14	-856.44E-6
18.00000	19.00000	15.00000	-11.804	14.755	-89.965	-205.48	-862.94E-6
19.00000	19.00000	15.00000	-11.645	14.755	-89.737	-197.45	-880.12E-6
20.00000	19.00000	15.00000	-11.424	14.755	-45.000	-106.11	-423.03E-6
21.00000	19.00000	15.00000	-11.192	14.755	-0.26233	-14.767	34.055E-6
22.00000	19.00000	15.00000	-11.003	14.755	-0.034286	-6.7320	16.846E-6
23.00000	19.00000	15.00000	-10.857	14.755	-0.010096	-4.0565	10.314E-6
24.00000	19.00000	15.00000	-10.717	14.755	-0.0041729	-2.7563	7.0501E-6
25.00000	19.00000	15.00000	-10.571	14.755	-0.0020768	-2.0054	5.1444E-6
26.00000	19.00000	15.00000	-10.407	14.755	-0.0011625	-1.5262	3.9214E-6
27.00000	19.00000	15.00000	-10.214	14.755	-705.92E-6	-1.1993	3.0849E-6
28.00000	19.00000	15.00000	-9.9814	14.755	-455.20E-6	-0.96571	2.4857E-6
29.00000	19.00000	15.00000	-9.6909	14.755	-307.42E-6	-0.79262	2.0412E-6
30.00000	19.00000	15.00000	-9.3189	14.755	-215.39E-6	-0.66073	1.7022E-6
31.00000	19.00000	15.00000	-8.8291	14.755	-155.50E-6	-0.55793	1.4378E-6
32.00000	19.00000	15.00000	-8.1597	14.755	-115.09E-6	-0.47630	1.2277E-6
33.00000	19.00000	15.00000	-7.1852	14.755	-86.996E-6	-0.41044	1.0581E-6
34.00000	19.00000	15.00000	-5.2374	14.755	-66.951E-6	-0.35658	0.0
35.00000	19.00000	15.00000	-3.2916	14.755	-52.335E-6	-0.31203	0.0
36.00000	19.00000	15.00000	-2.3233	14.755	-41.472E-6	-0.27479	0.0
37.00000	19.00000	15.00000	-1.6642	14.755	-33.262E-6	-0.24339	0.0
38.00000	19.00000	15.00000	-1.1892	14.755	-26.966E-6	-0.21669	0.0
39.00000	19.00000	15.00000	-0.83690	14.755	-22.073E-6	-0.19383	0.0
40.00000	19.00000	15.00000	-0.57124	14.755	-18.226E-6	-0.17414	0.0
41.00000	19.00000	15.00000	-0.36898	14.755	-15.169E-6	-0.15706	0.0
42.00000	19.00000	15.00000	-0.21411	14.755	-12.716E-6	-0.14211	0.0
43.00000	19.00000	15.00000	-0.095237	14.755	-10.730E-6	-0.12913	0.0
44.00000	19.00000	15.00000	-0.0040288	14.755	-9.1099E-6	-0.11766	0.0
45.00000	19.00000	15.00000	0.065731	14.755	-7.7781E-6	-0.10752	0.0
46.00000	19.00000	15.00000	0.11875	14.755	-6.6759E-6	-0.098521	0.0
47.00000	19.00000	15.00000	0.15863	14.755	-5.7579E-6	-0.090509	0.0
48.00000	19.00000	15.00000	0.18816	14.755	-4.9887E-6	-0.083501	0.0
49.00000	19.00000	15.00000	0.20953	14.755	-4.3408E-6	-0.076932	0.0
50.00000	19.00000	15.00000	0.22444	14.755	-3.7921E-6	-0.071161	0.0
51.00000	19.00000	15.00000	0.23426	14.755	-3.3253E-6	-0.065956	0.0
52.00000	19.00000	15.00000	0.24006	14.755	-2.9264E-6	-0.061256	0.0
53.00000	19.00000	15.00000	0.24269	14.755	-2.5839E-6	-0.056984	0.0
54.00000	19.00000	15.00000	0.24286	14.755	-2.2888E-6	-0.053107	0.0
55.00000	19.00000	15.00000	0.24111	14.755	-2.0335E-6	-0.049576	0.0
-25.00000	20.00000	15.00000	0.21536	14.755	-7.6051E-6	-0.10601	0.0
-24.00000	20.00000	15.00000	0.21929	14.755	-8.8948E-6	-0.11592	0.0
-23.00000	20.00000	15.00000	0.22230	14.755	-10.470E-6	-0.12713	0.0
-22.00000	20.00000	15.00000	0.22414	14.755	-12.394E-6	-0.13986	0.0
-21.00000	20.00000	15.00000	0.22445	14.755	-14.768E-6	-0.15437	0.0
-20.00000	20.00000	15.00000	0.22284	14.755	-17.725E-6	-0.17100	0.0
-19.00000	20.00000	15.00000	0.21879	14.755	-21.441E-6	-0.19017	0.0
-18.00000	20.00000	15.00000	0.21166	14.755	-26.163E-6	-0.21238	0.0
-17.00000	20.00000	15.00000	0.20070	14.755	-32.233E-6	-0.23828	0.0
-16.00000	20.00000	15.00000	0.18494	14.755	-40.143E-6	-0.26873	0.0
-15.00000	20.00000	15.00000	0.16317	14.755	-50.602E-6	-0.30478	0.0
-14.00000	20.00000	15.00000	0.13393	14.755	-64.671E-6	-0.34789	0.0
-13.00000	20.00000	15.00000	0.095325	14.755	-83.963E-6	-0.39993	1.0310E-6
-12.00000	20.00000	15.00000	0.045005	14.755	-111.02E-6	-0.46353	1.1948E-6
-11.00000	20.00000	15.00000	-0.020037	14.755	-149.96E-6	-0.54231	1.3975E-6
-10.00000	20.00000	15.00000	-0.10366	14.755	-207.76E-6	-0.64150	1.6527E-6
-9.00000	20.00000	15.00000	-0.21087	14.755	-296.77E-6	-0.76879	1.9798E-6
-8.00000	20.00000	15.00000	-0.34827	14.755	-440.16E-6	-0.93599	2.4092E-6
-7.00000	20.00000	15.00000	-0.52468	14.755	-684.42E-6	-1.1621	2.9890E-6
-6.00000	20.00000	15.00000	-0.75221	14.755	-0.0011314	-1.4791	3.8005E-6
-5.00000	20.00000	15.00000	-1.0480	14.755	-0.0020316	-1.9459	4.9914E-6
-4.00000	20.00000	15.00000	-1.4372	14.755	-0.0041071	-2.6809	6.8566E-6
-3.00000	20.00000	15.00000	-1.9559	14.755	-0.010001	-3.9614	10.071E-6
-2.00000	20.00000	15.00000	-2.6876	14.755	-0.034152	-6.6133	16.542E-6
-1.00000	20.00000	15.00000	-3.7786	14.755	-0.26215	-14.621	33.681E-6
0.00000	20.00000	15.00000	-5.8978	14.755	-44.999	-105.94	-423.48E-6
1.00000	20.00000	15.00000	-8.0165	14.755	-89.736	-197.25	-880.65E-6
2.00000	20.00000	15.00000	-9.1062	14.755	-89.964	-205.25	-863.53E-6
3.00000	20.00000	15.00000	-9.8316	14.755	-89.989	-207.89	-857.09E-6
4.00000	20.00000	15.00000	-10.351	14.755	-89.994	-209.15	-853.93E-6
5.00000	20.00000	15.00000	-10.736	14.755	-89.997	-209.85	-852.14E-6
6.00000	20.00000	15.00000	-11.026	14.755	-89.997	-210.28	-851.04E-6
7.00000	20.00000	15.00000	-11.245	14.755	-89.998	-210.55	-850.35E-6
8.00000	20.00000	15.00000	-11.412	14.755	-89.998	-210.72	-849.93E-6
9.00000	20.00000	15.00000	-11.537	14.755	-89.998	-210.81	-849.70E-6
10.00000	20.00000	15.00000	-11.629	14.755	-89.998	-210.84	-849.62E-6
11.00000	20.00000	15.00000	-11.694	14.755	-89.998	-210.87	-849.70E-6
12.00000	20.00000	15.00000	-11.735	14.755	-89.998	-210.72	-849.93E-6
13.00000	20.00000	15.00000	-11.756	14.755	-89.998	-210.55	-850.35E-6
14.00000	20.00000	15.00000	-11.758	14.755	-89.997	-210.28	-851.04E-6
15.00000	20.00000	15.00000	-11.742	14.755	-89.997	-209.85	-852.14E-6
16.00000	20.00000	15.00000	-11.707	14.755	-89.994	-209.15	-853.93E-6
17.00000	20.00000	15.00000	-11.649	14.755	-89.989	-207.89	-857.09E-6
18.00000	20.00000	15.00000	-11.559	14.755	-89.964	-205.25	

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Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location			Displacement		Stresses		
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-1.00000	22.00000	15.00000	-3.4507	14.755	-0.26108	-14.107	32.370E-6
	0.00000	22.00000	15.00000	-5.5050	14.755	-44.998	-105.28	-425.14E-6
	1.00000	22.00000	15.00000	-7.5588	14.755	-89.734	-196.46	-882.66E-6
	2.00000	22.00000	15.00000	-8.5883	14.755	-89.962	-204.33	-865.86E-6
	3.00000	22.00000	15.00000	-9.2613	14.755	-89.986	-206.87	-859.67E-6
	4.00000	22.00000	15.00000	-9.7369	14.755	-89.992	-208.06	-856.69E-6
	5.00000	22.00000	15.00000	-10.086	14.755	-89.994	-208.72	-855.03E-6
	6.00000	22.00000	15.00000	-10.348	14.755	-89.994	-209.11	-854.03E-6
	7.00000	22.00000	15.00000	-10.545	14.755	-89.995	-209.36	-853.40E-6
	8.00000	22.00000	15.00000	-10.695	14.755	-89.995	-209.51	-853.02E-6
	9.00000	22.00000	15.00000	-10.807	14.755	-89.995	-209.59	-852.81E-6
	10.00000	22.00000	15.00000	-10.889	14.755	-89.995	-209.61	-852.74E-6
	11.00000	22.00000	15.00000	-10.947	14.755	-89.995	-209.59	-852.81E-6
	12.00000	22.00000	15.00000	-10.984	14.755	-89.995	-209.51	-853.02E-6
	13.00000	22.00000	15.00000	-11.003	14.755	-89.995	-209.36	-853.40E-6
	14.00000	22.00000	15.00000	-11.004	14.755	-89.994	-209.11	-854.03E-6
	15.00000	22.00000	15.00000	-10.990	14.755	-89.994	-208.72	-855.03E-6
	16.00000	22.00000	15.00000	-10.958	14.755	-89.992	-208.06	-856.69E-6
	17.00000	22.00000	15.00000	-10.905	14.755	-89.986	-206.87	-859.67E-6
	18.00000	22.00000	15.00000	-10.821	14.755	-89.962	-204.33	-865.86E-6
	19.00000	22.00000	15.00000	-10.673	14.755	-89.734	-196.46	-882.66E-6
	20.00000	22.00000	15.00000	-10.464	14.755	-44.998	-105.28	-425.14E-6
	21.00000	22.00000	15.00000	-10.247	14.755	-0.26108	-14.107	32.370E-6
	22.00000	22.00000	15.00000	-10.072	14.755	-0.033473	-6.2219	15.542E-6
	23.00000	22.00000	15.00000	-9.9423	14.755	-0.0095841	-3.6684	9.3208E-6
	24.00000	22.00000	15.00000	-9.8206	14.755	-0.0035314	-2.4621	6.2956E-6
	25.00000	22.00000	15.00000	-9.6935	14.755	-0.0018752	-1.7814	4.5691E-6
	26.00000	22.00000	15.00000	-9.5514	14.755	-0.0010329	-1.3541	3.4792E-6
	27.00000	22.00000	15.00000	-9.3850	14.755	-620.75E-6	-1.0658	2.7416E-6
	28.00000	22.00000	15.00000	-9.1829	14.755	-397.95E-6	-0.86103	2.2164E-6
	29.00000	22.00000	15.00000	-8.9294	14.755	-268.10E-6	-0.70972	1.8278E-6
	30.00000	22.00000	15.00000	-8.6022	14.755	-187.85E-6	-0.59444	1.5315E-6
	31.00000	22.00000	15.00000	-8.1659	14.755	-135.85E-6	-0.50445	1.3000E-6
	32.00000	22.00000	15.00000	-7.5592	14.755	-100.84E-6	-0.43279	1.1156E-6
	33.00000	22.00000	15.00000	-6.6552	14.755	-76.503E-6	-0.37477	0.0
	34.00000	22.00000	15.00000	-4.7827	14.755	-59.122E-6	-0.32713	0.0
	35.00000	22.00000	15.00000	-2.9120	14.755	-46.422E-6	-0.28755	0.0
	36.00000	22.00000	15.00000	-2.0135	14.755	-36.956E-6	-0.25432	0.0
	37.00000	22.00000	15.00000	-1.4159	14.755	-29.778E-6	-0.22617	0.0
	38.00000	22.00000	15.00000	-0.99271	14.755	-24.252E-6	-0.20213	0.0
	39.00000	22.00000	15.00000	-0.68284	14.755	-19.941E-6	-0.18144	0.0
	40.00000	22.00000	15.00000	-0.45139	14.755	-16.538E-6	-0.16357	0.0
	41.00000	22.00000	15.00000	-0.27637	14.755	-13.822E-6	-0.14800	0.0
	42.00000	22.00000	15.00000	-0.14304	14.755	-11.634E-6	-0.13437	0.0
	43.00000	22.00000	15.00000	-0.041133	14.755	-9.8552E-6	-0.12238	0.0
	44.00000	22.00000	15.00000	0.036759	14.755	-8.3982E-6	-0.11800	0.0
	45.00000	22.00000	15.00000	0.096093	14.755	-7.1958E-6	-0.10241	0.0
	46.00000	22.00000	15.00000	0.14097	14.755	-6.1968E-6	-0.094057	0.0
	47.00000	22.00000	15.00000	0.17450	14.755	-5.3617E-6	-0.086593	0.0
	48.00000	22.00000	15.00000	0.19911	14.755	-4.6595E-6	-0.079904	0.0
	49.00000	22.00000	15.00000	0.21666	14.755	-4.0659E-6	-0.073899	0.0
	50.00000	22.00000	15.00000	0.22865	14.755	-3.5617E-6	-0.068469	0.0
	51.00000	22.00000	15.00000	0.23623	14.755	-3.1313E-6	-0.063567	0.0
	52.00000	22.00000	15.00000	0.24033	14.755	-2.7623E-6	-0.059124	0.0
	53.00000	22.00000	15.00000	0.24170	14.755	-2.4447E-6	-0.055087	0.0
	54.00000	22.00000	15.00000	0.24094	14.755	-2.1702E-6	-0.051411	0.0
	55.00000	22.00000	15.00000	0.23851	14.755	-1.9321E-6	-0.048055	0.0
	-25.00000	23.00000	15.00000	0.21219	14.755	-6.9638E-6	-0.10035	0.0
	-24.00000	23.00000	15.00000	0.21641	14.755	-8.1149E-6	-0.10944	0.0
	-23.00000	23.00000	15.00000	0.21987	14.755	-9.5072E-6	-0.11967	0.0
	-22.00000	23.00000	15.00000	0.22232	14.755	-11.203E-6	-0.13123	0.0
	-21.00000	23.00000	15.00000	0.22349	14.755	-13.286E-6	-0.14436	0.0
	-20.00000	23.00000	15.00000	0.22301	14.755	-15.866E-6	-0.15934	0.0
	-19.00000	23.00000	15.00000	0.22046	14.755	-19.091E-6	-0.17651	0.0
	-18.00000	23.00000	15.00000	0.21531	14.755	-23.168E-6	-0.19631	0.0
	-17.00000	23.00000	15.00000	0.20690	14.755	-28.380E-6	-0.21928	0.0
	-16.00000	23.00000	15.00000	0.19443	14.755	-35.135E-6	-0.24613	0.0
	-15.00000	23.00000	15.00000	0.17689	14.755	-44.021E-6	-0.27774	0.0
	-14.00000	23.00000	15.00000	0.15305	14.755	-55.912E-6	-0.31530	0.0
	-13.00000	23.00000	15.00000	0.12135	14.755	-72.145E-6	-0.36038	0.0
	-12.00000	23.00000	15.00000	0.079836	14.755	-94.820E-6	-0.41514	1.0701E-6
	-11.00000	23.00000	15.00000	0.026010	14.755	-127.36E-6	-0.48258	1.2437E-6
	-10.00000	23.00000	15.00000	-0.043320	14.755	-175.60E-6	-0.56702	1.4609E-6
	-9.00000	23.00000	15.00000	-0.13231	14.755	-249.93E-6	-0.67489	1.7382E-6
	-8.00000	23.00000	15.00000	-0.24647	14.755	-370.12E-6	-0.81610	2.1008E-6
	-7.00000	23.00000	15.00000	-0.39322	14.755	-576.48E-6	-1.0068	2.5899E-6
	-6.00000	23.00000	15.00000	-0.58287	14.755	-959.34E-6	-1.2749	3.2759E-6
	-5.00000	23.00000	15.00000	-0.83032	14.755	-0.0017468	-1.6725	4.2900E-6
	-4.00000	23.00000	15.00000	-1.1582	14.755	-0.0036169	-2.3083	5.9023E-6
	-3.00000	23.00000	15.00000	-1.6039	14.755	-0.0091263	-3.4454	8.7522E-6
	-2.00000	23.00000	15.00000	-2.2367	14.755	-0.032565	-5.8924	14.7066E-6
	-1.00000	23.00000	15.00000	-3.2157	14.755	-0.25933	-13.623	31.148E-6
	0.00000	23.00000	15.00000	-5.2117	14.755	-44.995	-104.61	-426.85E-6
	1.00000	23.00000	15.00000	-7.2073	14.755	-89.730	-195.59	-884.85E-6
	2.00000	23.00000	15.00000	-8.1853	14.755	-89.957	-203.31	-868.42E-6
	3.00000	23.00000	15.00000	-8.8163	14.755	-89.980	-205.74	-862.50E-6
	4.00000	23.00000	15.00000	-9.2593	14.755	-89.986	-206.86	-859.70E-6
	5.00000	23.00000	15.00000	-9.5835	14.755	-89.988	-207.47	-858.15E-6
	6.00000	23.00000	15.00000	-9.8261	14.755	-89.989	-207.84	-857.22E-6
	7.00000	23.00000	15.00000	-10.010	14.755	-89.989	-208.07	-856.64E-6
	8.00000	23.00000	15.00000	-10.148	14.755	-89.989	-208.21	-856.28E-6
	9.00000	23.00000	15.00000	-10.252	14.755	-89.989	-208.28	-856.09E-6
	10.00000	23.00000	15.00000	-10.329	14.755	-89.989	-208.31	-856.03E-6
	11.00000	23.00000	15.00000	-10.383	14.755	-89.989	-208.28	-856.09E-6
	12.00000	23.00000	15.00000	-10.417	14.755	-89.989	-208.21	-856.28E-6
	13.00000	23.00000	15.00000	-10.434	14.755	-89.989	-208.07	-856.64E-6
	14.00000	23.00000	15.00000	-10.436	14.755	-89.989	-207.84	-857.22E-6
	15.00000	23.00000	15.00000	-10.422	14.755	-89.988	-207.47	-858.15E-6
	16.00000	23.00000	15.00000	-10.392	14.755	-89.986	-206.86	-859.70E-6
	17.00000	23.00000	15.00000	-10.343	14.755	-89.980	-205.74	-862.50E-6
	18.00000	23.00000	15.00000	-10.264	14.755	-89.957	-203.31	-868.42E-6
	19.00000	23.00000	15.00000	-10.122	14.755	-89.730	-195.59	-884.85E-6
	20.00000	23.00000	15.00000	-9.9214				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
48.00000	23.00000	15.00000	0.20337	14.755	-4.5279E-6	-0.078510	0.0
49.00000	23.00000	15.00000	0.21939	14.755	-3.9559E-6	-0.072658	0.0
50.00000	23.00000	15.00000	0.23020	14.755	-3.4693E-6	-0.067376	0.0
51.00000	23.00000	15.00000	0.23689	14.755	-3.0533E-6	-0.062596	0.0
52.00000	23.00000	15.00000	0.24032	14.755	-2.6963E-6	-0.058259	0.0
53.00000	23.00000	15.00000	0.24119	14.755	-2.3886E-6	-0.054314	0.0
54.00000	23.00000	15.00000	0.24006	14.755	-2.1223E-6	-0.050719	0.0
55.00000	23.00000	15.00000	0.23738	14.755	-1.8911E-6	-0.047434	0.0
-25.00000	24.00000	15.00000	0.21087	14.755	-6.7167E-6	-0.098147	0.0
-24.00000	24.00000	15.00000	0.21520	14.755	-7.8135E-6	-0.10691	0.0
-23.00000	24.00000	15.00000	0.21882	14.755	-9.1372E-6	-0.11676	0.0
-22.00000	24.00000	15.00000	0.22150	14.755	-10.746E-6	-0.12788	0.0
-21.00000	24.00000	15.00000	0.22298	14.755	-12.717E-6	-0.14048	0.0
-20.00000	24.00000	15.00000	0.22293	14.755	-15.152E-6	-0.15482	0.0
-19.00000	24.00000	15.00000	0.22095	14.755	-18.189E-6	-0.17123	0.0
-18.00000	24.00000	15.00000	0.21654	14.755	-22.015E-6	-0.19010	0.0
-17.00000	24.00000	15.00000	0.20910	14.755	-26.893E-6	-0.21194	0.0
-16.00000	24.00000	15.00000	0.19789	14.755	-33.195E-6	-0.23739	0.0
-15.00000	24.00000	15.00000	0.18198	14.755	-41.456E-6	-0.26728	0.0
-14.00000	24.00000	15.00000	0.16023	14.755	-52.472E-6	-0.30268	0.0
-13.00000	24.00000	15.00000	0.13121	14.755	-67.451E-6	-0.34502	0.0
-12.00000	24.00000	15.00000	0.093151	14.755	-88.290E-6	-0.39626	1.0215E-6
-11.00000	24.00000	15.00000	0.043774	14.755	-118.07E-6	-0.45912	1.1833E-6
-10.00000	24.00000	15.00000	-0.019813	14.755	-162.02E-6	-0.53748	1.3849E-6
-9.00000	24.00000	15.00000	-0.10136	14.755	-229.44E-6	-0.63711	1.6410E-6
-8.00000	24.00000	15.00000	-0.20581	14.755	-337.96E-6	-0.76689	1.9743E-6
-7.00000	24.00000	15.00000	-0.33982	14.755	-523.60E-6	-0.94122	2.4214E-6
-6.00000	24.00000	15.00000	-0.51260	14.755	-867.14E-6	-1.1850	3.0454E-6
-5.00000	24.00000	15.00000	-0.73743	14.755	-0.0015740	-1.5450	3.9637E-6
-4.00000	24.00000	15.00000	-1.0346	14.755	-0.0032627	-2.1193	5.4200E-6
-3.00000	24.00000	15.00000	-1.43881	14.755	-0.0083200	-3.1498	8.0017E-6
-2.00000	24.00000	15.00000	-2.0125	14.755	-0.030522	-5.4026	13.473E-6
-1.00000	24.00000	15.00000	-2.9127	14.755	-0.25394	-12.782	29.061E-6
0.00000	24.00000	15.00000	-4.8121	14.755	-44.983	-103.24	-430.20E-6
1.00000	24.00000	15.00000	-6.7113	14.755	-89.711	-193.69	-889.46E-6
2.00000	24.00000	15.00000	-7.6105	14.755	-89.935	-201.06	-873.89E-6
3.00000	24.00000	15.00000	-8.1833	14.755	-89.957	-203.30	-868.45E-6
4.00000	24.00000	15.00000	-8.5843	14.755	-89.962	-204.31	-865.91E-6
5.00000	24.00000	15.00000	-8.8782	14.755	-89.964	-204.86	-864.51E-6
6.00000	24.00000	15.00000	-9.0987	14.755	-89.964	-205.19	-863.67E-6
7.00000	24.00000	15.00000	-9.2658	14.755	-89.965	-205.40	-863.15E-6
8.00000	24.00000	15.00000	-9.3925	14.755	-89.965	-205.53	-862.82E-6
9.00000	24.00000	15.00000	-9.4878	14.755	-89.965	-205.59	-862.65E-6
10.00000	24.00000	15.00000	-9.5579	14.755	-89.965	-205.62	-862.59E-6
11.00000	24.00000	15.00000	-9.6072	14.755	-89.965	-205.59	-862.65E-6
12.00000	24.00000	15.00000	-9.6388	14.755	-89.965	-205.53	-862.82E-6
13.00000	24.00000	15.00000	-9.6548	14.755	-89.965	-205.40	-863.15E-6
14.00000	24.00000	15.00000	-9.6565	14.755	-89.964	-205.19	-863.67E-6
15.00000	24.00000	15.00000	-9.6441	14.755	-89.964	-204.86	-864.51E-6
16.00000	24.00000	15.00000	-9.6168	14.755	-89.962	-204.31	-865.91E-6
17.00000	24.00000	15.00000	-9.5715	14.755	-89.957	-203.30	-868.45E-6
18.00000	24.00000	15.00000	-9.4991	14.755	-89.935	-201.06	-873.89E-6
19.00000	24.00000	15.00000	-9.3674	14.755	-89.711	-193.69	-889.46E-6
20.00000	24.00000	15.00000	-9.1789	14.755	-44.983	-103.24	-430.20E-6
21.00000	24.00000	15.00000	-8.9828	14.755	-0.25394	-12.782	29.061E-6
22.00000	24.00000	15.00000	-8.8282	14.755	-0.030522	-5.4026	13.473E-6
23.00000	24.00000	15.00000	-8.7160	14.755	-0.0083200	-3.1498	8.0017E-6
24.00000	24.00000	15.00000	-8.6119	14.755	-0.0032627	-2.1193	5.4200E-6
25.00000	24.00000	15.00000	-8.5033	14.755	-0.0015740	-1.5450	3.9637E-6
26.00000	24.00000	15.00000	-8.3822	14.755	-867.14E-6	-1.1850	3.0454E-6
27.00000	24.00000	15.00000	-8.2407	14.755	-523.60E-6	-0.94122	2.4214E-6
28.00000	24.00000	15.00000	-8.0695	14.755	-337.96E-6	-0.76689	1.9743E-6
29.00000	24.00000	15.00000	-7.8555	14.755	-229.44E-6	-0.63711	1.6410E-6
30.00000	24.00000	15.00000	-7.5798	14.755	-162.02E-6	-0.53748	1.3849E-6
31.00000	24.00000	15.00000	-7.2119	14.755	-118.07E-6	-0.45912	1.1833E-6
32.00000	24.00000	15.00000	-6.7695	14.755	-88.290E-6	-0.39626	1.0215E-6
33.00000	24.00000	15.00000	-5.9091	14.755	-67.451E-6	-0.34502	0.0
34.00000	24.00000	15.00000	-4.1745	14.755	-52.472E-6	-0.30268	0.0
35.00000	24.00000	15.00000	-2.4416	14.755	-41.456E-6	-0.26728	0.0
36.00000	24.00000	15.00000	-1.6596	14.755	-33.195E-6	-0.23739	0.0
37.00000	24.00000	15.00000	-1.1518	14.755	-26.893E-6	-0.21194	0.0
38.00000	24.00000	15.00000	-0.79554	14.755	-22.015E-6	-0.19010	0.0
39.00000	24.00000	15.00000	-0.53526	14.755	-18.189E-6	-0.17123	0.0
40.00000	24.00000	15.00000	-0.34068	14.755	-15.152E-6	-0.15482	0.0
41.00000	24.00000	15.00000	-0.19326	14.755	-12.717E-6	-0.14048	0.0
42.00000	24.00000	15.00000	-0.080745	14.755	-10.746E-6	-0.12788	0.0
43.00000	24.00000	15.00000	0.0053827	14.755	-9.1372E-6	-0.11676	0.0
44.00000	24.00000	15.00000	0.071250	14.755	-7.8135E-6	-0.10691	0.0
45.00000	24.00000	15.00000	0.12139	14.755	-6.7167E-6	-0.098147	0.0
46.00000	24.00000	15.00000	0.15921	14.755	-5.8021E-6	-0.090320	0.0
47.00000	24.00000	15.00000	0.18734	14.755	-5.0347E-6	-0.083090	0.0
48.00000	24.00000	15.00000	0.20779	14.755	-4.3873E-6	-0.077009	0.0
49.00000	24.00000	15.00000	0.22218	14.755	-3.8383E-6	-0.071330	0.0
50.00000	24.00000	15.00000	0.23174	14.755	-3.3704E-6	-0.066198	0.0
51.00000	24.00000	15.00000	0.23749	14.755	-2.9699E-6	-0.061548	0.0
52.00000	24.00000	15.00000	0.24021	14.755	-2.6256E-6	-0.057324	0.0
53.00000	24.00000	15.00000	0.24056	14.755	-2.3284E-6	-0.053479	0.0
54.00000	24.00000	15.00000	0.23905	14.755	-2.0710E-6	-0.049970	0.0
55.00000	24.00000	15.00000	0.23609	14.755	-1.8471E-6	-0.046762	0.0
-25.00000	25.00000	15.00000	0.20941	14.755	-6.4571E-6	-0.095805	0.0
-24.00000	25.00000	15.00000	0.21385	14.755	-7.4970E-6	-0.10423	0.0
-23.00000	25.00000	15.00000	0.21763	14.755	-8.7491E-6	-0.11369	0.0
-22.00000	25.00000	15.00000	0.22055	14.755	-10.267E-6	-0.12434	0.0
-21.00000	25.00000	15.00000	0.22235	14.755	-12.121E-6	-0.13638	0.0
-20.00000	25.00000	15.00000	0.22274	14.755	-14.405E-6	-0.15006	0.0
-19.00000	25.00000	15.00000	0.22135	14.755	-17.241E-6	-0.16565	0.0
-18.00000	25.00000	15.00000	0.21771	14.755	-20.810E-6	-0.18356	0.0
-17.00000	25.00000	15.00000	0.21128	14.755	-25.338E-6	-0.20422	0.0
-16.00000	25.00000	15.00000	0.20137	14.755	-31.164E-6	-0.22822	0.0
-15.00000	25.00000	15.00000	0.18714	14.755	-38.768E-6	-0.25630	0.0
-14.00000	25.00000	15.00000	0.16757	14.755	-48.859E-6	-0.28947	0.0
-13.00000	25.00000	15.00000	0.14137	14.755	-62.507E-6	-0.32889	0.0
-12.00000	25.00000	15.00000	0.10692	14.755	-81.382E-6	-0.37643	0.0
-11.00000	25.00000	15.00000	0.062221	14.755	-108.18E-6	-0.43443	1.1197E-6
-10.00000	25.00000	15.00000	0.0046979	14.755	-147.43E-6	-0.50631	1.3046E-6
-9.00000	25.00000	15.00000	-0.068944	14.755	-207.14E-6	-0.59707	1.5380E-6
-8.00000	25.00000	1					

Job No.	Sheet No.	Rev.
J15249		
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Made by	Date	Checked
MP		

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
16.00000	25.00000	15.00000	-8.4735	14.755	-89.734	-196.43	-882.73E-6
17.00000	25.00000	15.00000	-8.4335	14.755	-89.730	-195.57	-884.89E-6
18.00000	25.00000	15.00000	-8.3703	14.755	-89.711	-193.68	-889.48E-6
19.00000	25.00000	15.00000	-8.2554	14.755	-89.506	-187.25	-902.90E-6
20.00000	25.00000	15.00000	-8.0965	14.755	-44.869	-99.181	-438.89E-6
21.00000	25.00000	15.00000	-7.9307	14.755	-0.23095	-11.110	25.100E-6
22.00000	25.00000	15.00000	-7.7948	14.755	-0.025835	-4.6742	11.665E-6
23.00000	25.00000	15.00000	-7.6954	14.755	-0.0069859	-2.7724	7.0481E-6
24.00000	25.00000	15.00000	-7.6021	14.755	-0.0027710	-1.8966	4.8528E-6
25.00000	25.00000	15.00000	-7.5042	14.755	-0.0013569	-1.4014	3.5964E-6
26.00000	25.00000	15.00000	-7.3950	14.755	-758.15E-6	-1.0865	2.7928E-6
27.00000	25.00000	15.00000	-7.2678	14.755	-463.48E-6	-0.87051	2.2398E-6
28.00000	25.00000	15.00000	-7.1145	14.755	-302.35E-6	-0.71438	1.8393E-6
29.00000	25.00000	15.00000	-6.9244	14.755	-207.14E-6	-0.59707	1.5380E-6
30.00000	25.00000	15.00000	-6.6815	14.755	-147.43E-6	-0.50631	1.3046E-6
31.00000	25.00000	15.00000	-6.3606	14.755	-108.18E-6	-0.43443	1.1197E-6
32.00000	25.00000	15.00000	-5.9154	14.755	-81.382E-6	-0.37643	0.0
33.00000	25.00000	15.00000	-5.2397	14.755	-62.507E-6	-0.32889	0.0
34.00000	25.00000	15.00000	-3.6681	14.755	-48.859E-6	-0.28943	0.0
35.00000	25.00000	15.00000	-2.0980	14.755	-38.768E-6	-0.25630	0.0
36.00000	25.00000	15.00000	-1.4268	14.755	-31.164E-6	-0.22822	0.0
37.00000	25.00000	15.00000	-0.98926	14.755	-25.338E-6	-0.20422	0.0
38.00000	25.00000	15.00000	-0.67923	14.755	-20.810E-6	-0.18356	0.0
39.00000	25.00000	15.00000	-0.45064	14.755	-17.244E-6	-0.16566	0.0
40.00000	25.00000	15.00000	-0.27846	14.755	-14.405E-6	-0.15006	0.0
41.00000	25.00000	15.00000	-0.14724	14.755	-12.121E-6	-0.13638	0.0
42.00000	25.00000	15.00000	-0.046641	14.755	-10.267E-6	-0.12434	0.0
43.00000	25.00000	15.00000	0.030606	14.755	-8.7491E-6	-0.11369	0.0
44.00000	25.00000	15.00000	0.089794	14.755	-7.4970E-6	-0.10423	0.0
45.00000	25.00000	15.00000	0.13137	14.755	-6.4571E-6	-0.095805	0.0
46.00000	25.00000	15.00000	0.16885	14.755	-5.5878E-6	-0.088266	0.0
47.00000	25.00000	15.00000	0.19405	14.755	-4.8570E-6	-0.081501	0.0
48.00000	25.00000	15.00000	0.21227	14.755	-4.2391E-6	-0.075412	0.0
49.00000	25.00000	15.00000	0.22495	14.755	-3.7141E-6	-0.069916	0.0
50.00000	25.00000	15.00000	0.23322	14.755	-3.2659E-6	-0.064943	0.0
51.00000	25.00000	15.00000	0.23799	14.755	-2.8816E-6	-0.060430	0.0
52.00000	25.00000	15.00000	0.23998	14.755	-2.5507E-6	-0.056326	0.0
53.00000	25.00000	15.00000	0.23979	14.755	-2.2646E-6	-0.052586	0.0
54.00000	25.00000	15.00000	0.23789	14.755	-2.0165E-6	-0.049169	0.0
55.00000	25.00000	15.00000	0.23465	14.755	-1.8004E-6	-0.046042	0.0
-25.00000	26.00000	15.00000	0.20781	14.755	-6.1875E-6	-0.093348	0.0
-24.00000	26.00000	15.00000	0.21236	14.755	-7.1689E-6	-0.10143	0.0
-23.00000	26.00000	15.00000	0.21630	14.755	-8.3473E-6	-0.11047	0.0
-22.00000	26.00000	15.00000	0.21945	14.755	-9.7716E-6	-0.12064	0.0
-21.00000	26.00000	15.00000	0.22159	14.755	-11.506E-6	-0.13210	0.0
-20.00000	26.00000	15.00000	0.22242	14.755	-13.635E-6	-0.14509	0.0
-19.00000	26.00000	15.00000	0.22162	14.755	-16.271E-6	-0.15987	0.0
-18.00000	26.00000	15.00000	0.21877	14.755	-19.569E-6	-0.17677	0.0
-17.00000	26.00000	15.00000	0.21336	14.755	-23.738E-6	-0.19621	0.0
-16.00000	26.00000	15.00000	0.20478	14.755	-29.076E-6	-0.21871	0.0
-15.00000	26.00000	15.00000	0.19228	14.755	-36.005E-6	-0.24493	0.0
-14.00000	26.00000	15.00000	0.17494	14.755	-45.143E-6	-0.27573	0.0
-13.00000	26.00000	15.00000	0.15160	14.755	-57.417E-6	-0.31223	0.0
-12.00000	26.00000	15.00000	0.12086	14.755	-74.257E-6	-0.35595	0.0
-11.00000	26.00000	15.00000	0.080961	14.755	-97.945E-6	-0.40894	1.0541E-6
-10.00000	26.00000	15.00000	0.029677	14.755	-132.27E-6	-0.47410	1.2217E-6
-9.00000	26.00000	15.00000	-0.035806	14.755	-183.83E-6	-0.55565	1.4314E-6
-8.00000	26.00000	15.00000	-0.11911	14.755	-264.77E-6	-0.65988	1.6992E-6
-7.00000	26.00000	15.00000	-0.22498	14.755	-399.13E-6	-0.79676	2.0505E-6
-6.00000	26.00000	15.00000	-0.35976	14.755	-638.91E-6	-0.98286	2.5271E-6
-5.00000	26.00000	15.00000	-0.53223	14.755	-900.11107	-1.2481	3.2044E-6
-4.00000	26.00000	15.00000	-0.75512	14.755	-0.0021771	-1.6521	4.2307E-6
-3.00000	26.00000	15.00000	-1.0483	14.755	-0.0051610	-2.3336	5.9438E-6
-2.00000	26.00000	15.00000	-1.4471	14.755	-0.017283	-3.7055	9.2971E-6
-1.00000	26.00000	15.00000	-2.0300	14.755	-0.13133	-7.7589	17.994E-6
0.00000	26.00000	15.00000	-3.1282	14.755	-22.500	-53.468	-210.46E-6
1.00000	26.00000	15.00000	-4.2262	14.755	-44.869	-99.175	-438.91E-6
2.00000	26.00000	15.00000	-4.8083	14.755	-44.983	-103.22	-430.23E-6
3.00000	26.00000	15.00000	-5.2058	14.755	-44.995	-104.58	-426.90E-6
4.00000	26.00000	15.00000	-5.4971	14.755	-44.998	-105.25	-425.23E-6
5.00000	26.00000	15.00000	-5.7174	14.755	-44.999	-105.64	-424.25E-6
6.00000	26.00000	15.00000	-5.8864	14.755	-44.999	-105.87	-423.64E-6
7.00000	26.00000	15.00000	-6.0166	14.755	-45.000	-106.03	-423.25E-6
8.00000	26.00000	15.00000	-6.1167	14.755	-45.000	-106.12	-423.00E-6
9.00000	26.00000	15.00000	-6.1927	14.755	-45.000	-106.18	-422.87E-6
10.00000	26.00000	15.00000	-6.2491	14.755	-45.000	-106.19	-422.82E-6
11.00000	26.00000	15.00000	-6.2889	14.755	-45.000	-106.18	-422.87E-6
12.00000	26.00000	15.00000	-6.3147	14.755	-45.000	-106.12	-423.00E-6
13.00000	26.00000	15.00000	-6.3279	14.755	-45.000	-106.03	-423.25E-6
14.00000	26.00000	15.00000	-6.3296	14.755	-44.999	-105.87	-423.64E-6
15.00000	26.00000	15.00000	-6.3203	14.755	-44.999	-105.64	-424.25E-6
16.00000	26.00000	15.00000	-6.2995	14.755	-44.998	-105.25	-425.23E-6
17.00000	26.00000	15.00000	-6.2656	14.755	-44.995	-104.58	-426.90E-6
18.00000	26.00000	15.00000	-6.2139	14.755	-44.983	-103.22	-430.23E-6
19.00000	26.00000	15.00000	-6.1281	14.755	-44.869	-99.175	-438.91E-6
20.00000	26.00000	15.00000	-6.0096	14.755	-22.500	-53.468	-210.46E-6
21.00000	26.00000	15.00000	-5.8850	14.755	-0.13133	-7.7589	17.994E-6
22.00000	26.00000	15.00000	-5.7802	14.755	-0.017283	-3.7055	9.2971E-6
23.00000	26.00000	15.00000	-5.6961	14.755	-0.0051610	-2.3336	5.9438E-6
24.00000	26.00000	15.00000	-5.6143	14.755	-0.0021771	-1.6521	4.2307E-6
25.00000	26.00000	15.00000	-5.5277	14.755	-0.0011107	-1.2481	3.2044E-6
26.00000	26.00000	15.00000	-5.4309	14.755	-638.91E-6	-0.98286	2.5271E-6
27.00000	26.00000	15.00000	-5.3186	14.755	-399.13E-6	-0.79676	2.0505E-6
28.00000	26.00000	15.00000	-5.1842	14.755	-264.77E-6	-0.65988	1.6992E-6
29.00000	26.00000	15.00000	-5.0194	14.755	-183.83E-6	-0.55565	1.4314E-6
30.00000	26.00000	15.00000	-4.8121	14.755	-132.27E-6	-0.47410	1.2217E-6
31.00000	26.00000	15.00000	-4.5442	14.755	-9		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Calc Level Z [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-16.00000	27.00000	15.00000	0.20804	14.755	-26.964E-6	-0.20898
	-15.00000	27.00000	15.00000	0.19727	14.755	-33.214E-6	-0.23332
	-14.00000	27.00000	15.00000	0.18215	14.755	-41.396E-6	-0.26176
	-13.00000	27.00000	15.00000	0.16170	14.755	-52.291E-6	-0.29527
	-12.00000	27.00000	15.00000	0.13468	14.755	-67.092E-6	-0.33514
	-11.00000	27.00000	15.00000	0.09586	14.755	-87.668E-6	-0.38309
	-10.00000	27.00000	15.00000	0.054554	14.755	-117.07E-6	-0.44151
	-9.00000	27.00000	15.00000	-0.0027543	14.755	-160.46E-6	-0.51380
	-8.00000	27.00000	15.00000	-0.075282	14.755	-227.13E-6	-0.60494
	-7.00000	27.00000	15.00000	-0.16677	14.755	-334.71E-6	-0.72252
	-6.00000	27.00000	15.00000	-0.28207	14.755	-519.59E-6	-0.87869
	-5.00000	27.00000	15.00000	-0.42751	14.755	-864.39E-6	-1.0941
	-4.00000	27.00000	15.00000	-0.61167	14.755	-0.0015830	-1.4068
	-3.00000	27.00000	15.00000	-0.84639	14.755	-0.0033359	-1.8942
	-2.00000	27.00000	15.00000	-1.1485	14.755	-0.0087307	-2.7361
	-1.00000	27.00000	15.00000	-1.5406	14.755	-0.031720	-4.4074
	0.00000	27.00000	15.00000	-2.0282	14.755	-0.13133	-7.7547
	1.00000	27.00000	15.00000	-2.5156	14.755	-0.23095	-11.100
	2.00000	27.00000	15.00000	-2.9070	14.755	-0.25393	-12.766
	3.00000	27.00000	15.00000	-3.2080	14.755	-0.25933	-13.598
	4.00000	27.00000	15.00000	-3.4481	14.755	-0.26107	-14.072
	5.00000	27.00000	15.00000	-3.6230	14.755	-0.26179	-14.366
	6.00000	27.00000	15.00000	-3.7654	14.755	-0.26213	-14.558
	7.00000	27.00000	15.00000	-3.8768	14.755	-0.26230	-14.684
	8.00000	27.00000	15.00000	-3.9633	14.755	-0.26239	-14.765
	9.00000	27.00000	15.00000	-4.0294	14.755	-0.26244	-14.809
	10.00000	27.00000	15.00000	-4.0788	14.755	-0.26245	-14.824
	11.00000	27.00000	15.00000	-4.1139	14.755	-0.26244	-14.809
	12.00000	27.00000	15.00000	-4.1366	14.755	-0.26239	-14.765
	13.00000	27.00000	15.00000	-4.1485	14.755	-0.26230	-14.684
	14.00000	27.00000	15.00000	-4.1503	14.755	-0.26213	-14.558
	15.00000	27.00000	15.00000	-4.1425	14.755	-0.26179	-14.366
	16.00000	27.00000	15.00000	-4.1251	14.755	-0.26107	-14.072
	17.00000	27.00000	15.00000	-4.0973	14.755	-0.25933	-13.598
	18.00000	27.00000	15.00000	-4.0572	14.755	-0.25393	-12.766
	19.00000	27.00000	15.00000	-4.0004	14.755	-0.23095	-11.100
	20.00000	27.00000	15.00000	-3.9224	14.755	-0.13133	-7.7547
	21.00000	27.00000	15.00000	-3.8389	14.755	-0.031720	-4.4074
	22.00000	27.00000	15.00000	-3.7653	14.755	-0.0087307	-2.7361
	23.00000	27.00000	15.00000	-3.6964	14.755	-0.0033359	-1.8942
	24.00000	27.00000	15.00000	-3.6264	14.755	-0.0015830	-1.4068
	25.00000	27.00000	15.00000	-3.5510	14.755	-864.39E-6	-1.0941
	26.00000	27.00000	15.00000	-3.4666	14.755	-519.59E-6	-0.87869
	27.00000	27.00000	15.00000	-3.3692	14.755	-334.71E-6	-0.72252
	28.00000	27.00000	15.00000	-3.2538	14.755	-227.13E-6	-0.60494
	29.00000	27.00000	15.00000	-3.1144	14.755	-160.46E-6	-0.51380
	30.00000	27.00000	15.00000	-2.9426	14.755	-117.07E-6	-0.44151
	31.00000	27.00000	15.00000	-2.7278	14.755	-87.668E-6	-0.38309
	32.00000	27.00000	15.00000	-2.4548	14.755	-67.092E-6	-0.33514
	33.00000	27.00000	15.00000	-2.1054	14.755	-52.291E-6	-0.29527
	34.00000	27.00000	15.00000	-1.6779	14.755	-41.396E-6	-0.26176
	35.00000	27.00000	15.00000	-1.2516	14.755	-33.214E-6	-0.23332
	36.00000	27.00000	15.00000	-0.90607	14.755	-26.964E-6	-0.20898
	37.00000	27.00000	15.00000	-0.63958	14.755	-22.118E-6	-0.18800
	38.00000	27.00000	15.00000	-0.43389	14.755	-18.310E-6	-0.16979
	39.00000	27.00000	15.00000	-0.27421	14.755	-15.282E-6	-0.15391
	40.00000	27.00000	15.00000	-0.14976	14.755	-12.850E-6	-0.13997
	41.00000	27.00000	15.00000	-0.052631	14.755	-10.878E-6	-0.12768
	42.00000	27.00000	15.00000	0.023095	14.755	-9.2653E-6	-0.11681
	43.00000	27.00000	15.00000	0.081919	14.755	-7.9360E-6	-0.10714
	44.00000	27.00000	15.00000	0.12731	14.755	-6.8325E-6	-0.09851
	45.00000	27.00000	15.00000	0.16198	14.755	-5.9107E-6	-0.090794
	46.00000	27.00000	15.00000	0.18806	14.755	-5.1360E-6	-0.083861
	47.00000	27.00000	15.00000	0.20725	14.755	-4.4813E-6	-0.077616
	48.00000	27.00000	15.00000	0.22089	14.755	-3.9252E-6	-0.071975
	49.00000	27.00000	15.00000	0.23010	14.755	-3.4506E-6	-0.066869
	50.00000	27.00000	15.00000	0.23573	14.755	-3.0437E-6	-0.062321
	51.00000	27.00000	15.00000	0.23852	14.755	-2.6935E-6	-0.058012
	52.00000	27.00000	15.00000	0.23903	14.755	-2.3908E-6	-0.054164
	53.00000	27.00000	15.00000	0.23775	14.755	-2.1282E-6	-0.050648
	54.00000	27.00000	15.00000	0.23506	14.755	-1.8997E-6	-0.047428
	55.00000	27.00000	15.00000	0.23128	14.755	-1.7000E-6	-0.044475
	-25.00000	28.00000	15.00000	0.20419	14.755	-5.6292E-6	-0.088162
	-24.00000	28.00000	15.00000	0.20894	14.755	-6.4911E-6	-0.095518
	-23.00000	28.00000	15.00000	0.21319	14.755	-7.5194E-6	-0.10371
	-22.00000	28.00000	15.00000	0.21680	14.755	-8.7537E-6	-0.11288
	-21.00000	28.00000	15.00000	0.21958	14.755	-10.245E-6	-0.12316
	-20.00000	28.00000	15.00000	0.22129	14.755	-12.061E-6	-0.13474
	-19.00000	28.00000	15.00000	0.22167	14.755	-14.290E-6	-0.14783
	-18.00000	28.00000	15.00000	0.22037	14.755	-17.049E-6	-0.16270
	-17.00000	28.00000	15.00000	0.21700	14.755	-20.499E-6	-0.17966
	-16.00000	28.00000	15.00000	0.21107	14.755	-24.861E-6	-0.19913
	-15.00000	28.00000	15.00000	0.20199	14.755	-30.444E-6	-0.22160
	-14.00000	28.00000	15.00000	0.18907	14.755	-37.690E-6	-0.24770
	-13.00000	28.00000	15.00000	0.17144	14.755	-47.242E-6	-0.27826
	-12.00000	28.00000	15.00000	0.14807	14.755	-60.065E-6	-0.31433
	-11.00000	28.00000	15.00000	0.11769	14.755	-77.641E-6	-0.35733
	-10.00000	28.00000	15.00000	0.078766	14.755	-102.32E-6	-0.40918
	-9.00000	28.00000	15.00000	0.029413	14.755	-137.99E-6	-0.47250
	-8.00000	28.00000	15.00000	-0.032672	14.755	-191.32E-6	-0.55105
	-7.00000	28.00000	15.00000	-0.11032	14.755	-274.38E-6	-0.65032
	-6.00000	28.00000	15.00000	-0.20701	14.755	-410.36E-6	-0.77858
	-5.00000	28.00000	15.00000	-0.32701	14.755	-647.03E-6	-0.94884
	-4.00000	28.00000	15.00000	-0.47547	14.755	-0.0010910	-1.1823
	-3.00000	28.00000	15.00000	-0.65831	14.755	-0.0020016	-1.5148
	-2.00000	28.00000	15.00000	-0.81318	14.755	-0.0040433	-2.0055
	-1.00000	28.00000	15.00000	-1.1469	14.755	-0.00807301	-2.7327
	0.00000	28.00000	15.00000	-1.4437	14.755	-0.017281	-3.6980
	1.00000	28.00000	15.00000	-1.7403	14.755	-0.025832	-4.6616
	2.00000	28.00000	15.00000	-2.0052	14.755	-0.030517	-5.3837
	3.00000	28.00000	15.00000	-2.2274	14.755	-0.032557	-5.8658
	4.00000	28.00000	15.00000	-2.4088	14.755	-0.033464	-6.1855
	5.00000	28.00000	15.00000	-2.5554	14.755	-0.033903	-6.4022
	6.00000	28.00000	15.00000	-2.6728	14.755	-0.034133	-6.5509
	7.00000	28.00000	15.00000	-2.7662	14.755	-0.034260	-6.6521
	8.00000	28.00000	15.00000	-2.8395	14.755	-0.034330	-6.7177
	9.00000	28.00000	15.00000	-2.8962	14.755	-0.034366	-6.7547
	10.00000	28.00000	15.00000	-2.9387	14.755	-0.034377	-6.7666
	11.00000	28.00000	15.00000	-2.9691	14.755	-0.034366	-6.7547
	12.00000	28.00000	15.00000	-2.9890	14.755	-0.034330	-6.7177
	13.00000	28.00000	15.00000	-2.9994	14.755	-0.034260	-6.6521
	14.00000	28.00000	15.00000	-3.0012	14.755	-0.034133	-6.5509
	15.00000	28.00000	15.00000	-2.9949	14.755	-0.033903	-6.4022
	16.00000	28.00000	15.00000	-2.9806	14.755	-0.033464	-6.1855
	17.00000	28.00000	15.00000	-2.9583	14.755	-0.032557	-5.8656
	18.00000	28.00000	15.00000	-2.9273	14.755	-0.030517	-5.3837
	19.00000	28.00000	15.00000	-2.8873	14.755	-0.025832	-4.6616
	20.00000	28.00000	15.00000	-2.8390	14.755	-0.017281	-3.6980
	21.00000	28.00000	15.00000	-2.7858	14.755	-0.0087301	-2.7327
	22.00000	28.00000	15.00000	-2.7311	14.755	-0.0040433	-2.0055
	23.00000	28.00000	15.00000	-2.6750	14.755	-0.0020016	-1.5148
	24.00000	28.00000	15.00000	-2.6157	14.755	-0.0010910	-1.1823
	25.00000	28.00000	15.00000	-2.5511	14.755	-647.03E-6	-0.94884
	26.00000	28.00000	15.00000	-2.4787	14.755	-410.36E-6	-0.77858
	27.00000	28.00000	15.00000	-2.3956	14.755	-274.38E-6	-0.65032
	28.00000	28.00000	15.00000	-2.2994	14.755	-191.32E-6	-0.55105
	29.00000	28.00000	15.00000	-2.1828	14.755	-137.99E-6	-0

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by	Date	Checked
MP		

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
33.00000	28.00000	15.00000	-1.4359	14.755	-47.242E-6	-0.27826	0.0
34.00000	28.00000	15.00000	-1.1714	14.755	-37.690E-6	-0.24770	0.0
35.00000	28.00000	15.00000	-0.90809	14.755	-30.444E-6	-0.22160	0.0
36.00000	28.00000	15.00000	-0.67338	14.755	-24.861E-6	-0.19913	0.0
37.00000	28.00000	15.00000	-0.47722	14.755	-20.499E-6	-0.17966	0.0
38.00000	28.00000	15.00000	-0.31783	14.755	-17.049E-6	-0.16270	0.0
39.00000	28.00000	15.00000	-0.18989	14.755	-14.290E-6	-0.14783	0.0
40.00000	28.00000	15.00000	-0.087895	14.755	-12.061E-6	-0.13474	0.0
41.00000	28.00000	15.00000	-0.0070155	14.755	-10.245E-6	-0.12316	0.0
42.00000	28.00000	15.00000	0.056750	14.755	-8.7537E-6	-0.11288	0.0
43.00000	28.00000	15.00000	0.10666	14.755	-7.5194E-6	-0.10371	0.0
44.00000	28.00000	15.00000	0.14534	14.755	-6.4911E-6	-0.095518	0.0
45.00000	28.00000	15.00000	0.17494	14.755	-5.6292E-6	-0.088162	0.0
46.00000	28.00000	15.00000	0.19715	14.755	-4.9025E-6	-0.081541	0.0
47.00000	28.00000	15.00000	0.21340	14.755	-4.2867E-6	-0.075566	0.0
48.00000	28.00000	15.00000	0.22480	14.755	-3.7622E-6	-0.070159	0.0
49.00000	28.00000	15.00000	0.23230	14.755	-3.3135E-6	-0.065253	0.0
50.00000	28.00000	15.00000	0.23664	14.755	-2.9278E-6	-0.060791	0.0
51.00000	28.00000	15.00000	0.23846	14.755	-2.5951E-6	-0.056726	0.0
52.00000	28.00000	15.00000	0.23825	14.755	-2.3070E-6	-0.053012	0.0
53.00000	28.00000	15.00000	0.23644	14.755	-2.0566E-6	-0.049614	0.0
54.00000	28.00000	15.00000	0.23337	14.755	-1.8382E-6	-0.046499	0.0
55.00000	28.00000	15.00000	0.22932	14.755	-1.6471E-6	-0.043637	0.0
-25.00000	29.00000	15.00000	0.20218	14.755	-5.3455E-6	-0.085469	0.0
-24.00000	29.00000	15.00000	0.20701	14.755	-6.1479E-6	-0.092457	0.0
-23.00000	29.00000	15.00000	0.21141	14.755	-7.1016E-6	-0.10022	0.0
-22.00000	29.00000	15.00000	0.21523	14.755	-8.2418E-6	-0.10888	0.0
-21.00000	29.00000	15.00000	0.21831	14.755	-9.6138E-6	-0.11857	0.0
-20.00000	29.00000	15.00000	0.22044	14.755	-11.276E-6	-0.12944	0.0
-19.00000	29.00000	15.00000	0.22137	14.755	-13.305E-6	-0.14169	0.0
-18.00000	29.00000	15.00000	0.22082	14.755	-15.803E-6	-0.15585	0.0
-17.00000	29.00000	15.00000	0.21843	14.755	-18.906E-6	-0.17129	0.0
-16.00000	29.00000	15.00000	0.21377	14.755	-22.800E-6	-0.18926	0.0
-15.00000	29.00000	15.00000	0.20634	14.755	-27.741E-6	-0.20989	0.0
-14.00000	29.00000	15.00000	0.19554	14.755	-34.092E-6	-0.23371	0.0
-13.00000	29.00000	15.00000	0.18064	14.755	-42.369E-6	-0.26140	0.0
-12.00000	29.00000	15.00000	0.16077	14.755	-53.333E-6	-0.29381	0.0
-11.00000	29.00000	15.00000	0.13490	14.755	-68.120E-6	-0.33208	0.0
-10.00000	29.00000	15.00000	0.10180	14.755	-88.485E-6	-0.37768	0.0
-9.00000	29.00000	15.00000	0.059976	14.755	-117.21E-6	-0.43260	1.1148E-6
-8.00000	29.00000	15.00000	0.0076940	14.755	-158.84E-6	-0.49954	1.2870E-6
-7.00000	29.00000	15.00000	-0.057105	14.755	-221.14E-6	-0.58225	1.4995E-6
-6.00000	29.00000	15.00000	-0.13680	14.755	-317.76E-6	-0.68605	1.7659E-6
-5.00000	29.00000	15.00000	-0.23406	14.755	-473.77E-6	-0.81846	2.1053E-6
-4.00000	29.00000	15.00000	-0.35169	14.755	-736.44E-6	-0.99024	2.5447E-6
-3.00000	29.00000	15.00000	-0.49220	14.755	-0.001947	-1.5122	3.1201E-6
-2.00000	29.00000	15.00000	-0.65675	14.755	-0.0020011	-1.5122	3.8724E-6
-1.00000	29.00000	15.00000	-0.84317	14.755	-0.0033348	-1.8883	4.8227E-6
0.00000	29.00000	15.00000	-1.0433	14.755	-0.0051590	-2.3238	5.9183E-6
1.00000	29.00000	15.00000	-1.2433	14.755	-0.0069829	-2.7576	7.0100E-6
2.00000	29.00000	15.00000	-1.4293	14.755	-0.0083154	-3.1291	7.9481E-6
3.00000	29.00000	15.00000	-1.5931	14.755	-0.0091198	-3.4174	8.6799E-6
4.00000	29.00000	15.00000	-1.7325	14.755	-0.0095750	-3.6316	9.2258E-6
5.00000	29.00000	15.00000	-1.8485	14.755	-0.0098334	-3.7881	9.6258E-6
6.00000	29.00000	15.00000	-1.9437	14.755	-0.0099836	-3.9010	9.9148E-6
7.00000	29.00000	15.00000	-2.0206	14.755	-0.010072	-3.9803	10.118E-6
8.00000	29.00000	15.00000	-2.0818	14.755	-0.010124	-4.0329	10.253E-6
9.00000	29.00000	15.00000	-2.1296	14.755	-0.010151	-4.0630	10.330E-6
10.00000	29.00000	15.00000	-2.1657	14.755	-0.010159	-4.0728	10.356E-6
11.00000	29.00000	15.00000	-2.1917	14.755	-0.010151	-4.0630	10.330E-6
12.00000	29.00000	15.00000	-2.2087	14.755	-0.010124	-4.0329	10.253E-6
13.00000	29.00000	15.00000	-2.2178	14.755	-0.010072	-3.9803	10.118E-6
14.00000	29.00000	15.00000	-2.2196	14.755	-0.0099836	-3.9010	9.9148E-6
15.00000	29.00000	15.00000	-2.2145	14.755	-0.0098334	-3.7881	9.6258E-6
16.00000	29.00000	15.00000	-2.2029	14.755	-0.0095750	-3.6316	9.2258E-6
17.00000	29.00000	15.00000	-2.1849	14.755	-0.0091198	-3.4174	8.6799E-6
18.00000	29.00000	15.00000	-2.1606	14.755	-0.0083154	-3.1291	7.9481E-6
19.00000	29.00000	15.00000	-2.1303	14.755	-0.0069829	-2.7576	7.0100E-6
20.00000	29.00000	15.00000	-2.0946	14.755	-0.0051590	-2.3238	5.9183E-6
21.00000	29.00000	15.00000	-2.0548	14.755	-0.0033348	-1.8883	4.8227E-6
22.00000	29.00000	15.00000	-2.0118	14.755	-0.0020011	-1.5122	3.8724E-6
23.00000	29.00000	15.00000	-1.9658	14.755	-0.0011947	-1.2159	3.1201E-6
24.00000	29.00000	15.00000	-1.9160	14.755	-736.44E-6	-0.99024	2.5447E-6
25.00000	29.00000	15.00000	-1.8614	14.755	-473.77E-6	-0.81846	2.1053E-6
26.00000	29.00000	15.00000	-1.8001	14.755	-317.76E-6	-0.68605	1.7659E-6
27.00000	29.00000	15.00000	-1.7303	14.755	-221.14E-6	-0.58225	1.4995E-6
28.00000	29.00000	15.00000	-1.6497	14.755	-158.84E-6	-0.49954	1.2870E-6
29.00000	29.00000	15.00000	-1.5555	14.755	-117.21E-6	-0.43260	1.1148E-6
30.00000	29.00000	15.00000	-1.4450	14.755	-88.485E-6	-0.37768	0.0
31.00000	29.00000	15.00000	-1.3158	14.755	-68.120E-6	-0.33208	0.0
32.00000	29.00000	15.00000	-1.1665	14.755	-53.333E-6	-0.29381	0.0
33.00000	29.00000	15.00000	-0.99903	14.755	-42.369E-6	-0.26140	0.0
34.00000	29.00000	15.00000	-0.82038	14.755	-34.092E-6	-0.23371	0.0
35.00000	29.00000	15.00000	-0.64280	14.755	-27.741E-6	-0.20989	0.0
36.00000	29.00000	15.00000	-0.47849	14.755	-22.800E-6	-0.18926	0.0
37.00000	29.00000	15.00000	-0.33459	14.755	-18.906E-6	-0.17129	0.0
38.00000	29.00000	15.00000	-0.21295	14.755	-15.803E-6	-0.15585	0.0
39.00000	29.00000	15.00000	-0.11236	14.755	-13.305E-6	-0.14169	0.0
40.00000	29.00000	15.00000	-0.030367	14.755	-11.276E-6	-0.12944	0.0
41.00000	29.00000	15.00000	0.035705	14.755	-9.6138E-6	-0.11857	0.0
42.00000	29.00000	15.00000	0.088399	14.755	-8.2418E-6	-0.10888	0.0
43.00000	29.00000	15.00000	0.12996	14.755	-7.1016E-6	-0.10022	0.0
44.00000	29.00000	15.00000	0.16232	14.755	-6.1479E-6	-0.092457	0.0
45.00000	29.00000	15.00000	0.18708	14.755	-5.3455E-6	-0.085469	0.0
46.00000	29.00000	15.00000	0.20561	14.755	-4.6668E-6	-0.079165	0.0
47.00000	29.00000	15.00000	0.21904	14.755	-4.0898E-6	-0.073462	0.0
48.00000	29.00000	15.00000	0.22829	14.755	-3.5970E-6	-0.068290	0.0
49.00000	29.00000	15.00000	0.23415	14.755	-3.1741E-6	-0.063590	0.0
50.00000	29.00000	15.00000	0.23725	14.755	-2.8099E-6	-0.059308	0.0
51.00000	29.00000	15.00000	0.23813	14.755	-2.4949E-6	-0.055398	0.0
52.00000	29.00000	15.00000	0.23723	14.755	-2.2215E-6	-0.051922	0.0
53.00000	29.00000	15.00000	0.23491	14.755	-1.9833E-6	-0.048545	0.0
54.00000	29.00000	15.00000	0.23148	14.755	-1.7753E-6	-0.045535	0.0
55.00000	29.00000	15.00000	0.22719	14.755	-1.5929E-6	-0.042767	0.0
-25.00000	30.00000	15.00000	0.20002	14.755	-5.0621E-6	-0.082734	0.0
-24.00000	30.00000	15.00000	0.20493	14.755	-5.8059E-6	-0.089354	0.0
-23.00000	30.00000	15.00000	0.20946	14.755	-6.6864E-6	-0.096693	0.0
-22.00000	30.00000	15.00000	0.21348	14.755	-7.7347E-6	-0.10485	0.0
-21.00000	30.00000	15.00000	0.21684	14.755	-8.9902E-6	-0.11395	0.0
-20.00000	30.00000	15.00000	0.21937	14.755	-10.503E-6	-0.12412	0.0
-19.00000	30.00000	15.00000	0.22084	14.755	-12.340E-6	-0.13555	0.0
-18.00000	30.00000	15.00000	0.22100	14.755	-14.587E-6	-0.14840	0.0
-17.00000	30.00000	15.00000	0.21953	14.755	-17.358E-6	-0.16295	0.0
-16.00000	30.00000	15.00000	0.21609	14.755	-20.807E-6	-0.17947	0.0
-15.00000	30.00000	15.00000	0.21022	14.755	-25.143E-6	-0.19833	0.0
-14.00000	30.00000	15.00000	0.20144	14.755	-30.658E-6	-0.21995	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
1.00000	30.00000	15.00000	-0.89028	14.755	-0.0027678	-1.8804	4.8109E-6
2.00000	30.00000	15.00000	-1.0245	14.755	-0.0032582	-2.0975	5.3637E-6
3.00000	30.00000	15.00000	-1.1461	14.755	-0.0036106	-2.2798	5.8288E-6
4.00000	30.00000	15.00000	-1.2526	14.755	-0.0038448	-2.4255	6.2013E-6
5.00000	30.00000	15.00000	-1.3435	14.755	-0.0039956	-2.5383	6.4901E-6
6.00000	30.00000	15.00000	-1.4196	14.755	-0.0040916	-2.6231	6.7076E-6
7.00000	30.00000	15.00000	-1.4821	14.755	-0.0041522	-2.6846	6.8654E-6
8.00000	30.00000	15.00000	-1.5324	14.755	-0.0041890	-2.7262	6.9721E-6
9.00000	30.00000	15.00000	-1.5721	14.755	-0.0042088	-2.7502	7.0339E-6
10.00000	30.00000	15.00000	-1.6023	14.755	-0.0042150	-2.7581	7.0541E-6
11.00000	30.00000	15.00000	-1.6242	14.755	-0.0042088	-2.7502	7.0339E-6
12.00000	30.00000	15.00000	-1.6386	14.755	-0.0041890	-2.7262	6.9721E-6
13.00000	30.00000	15.00000	-1.6464	14.755	-0.0041522	-2.6846	6.8654E-6
14.00000	30.00000	15.00000	-1.6480	14.755	-0.0040916	-2.6231	6.7076E-6
15.00000	30.00000	15.00000	-1.6439	14.755	-0.0039956	-2.5383	6.4901E-6
16.00000	30.00000	15.00000	-1.6345	14.755	-0.0038448	-2.4255	6.2013E-6
17.00000	30.00000	15.00000	-1.6200	14.755	-0.0036106	-2.2798	5.8288E-6
18.00000	30.00000	15.00000	-1.6007	14.755	-0.0032582	-2.0975	5.3637E-6
19.00000	30.00000	15.00000	-1.5768	14.755	-0.0027678	-1.8804	4.8109E-6
20.00000	30.00000	15.00000	-1.5488	14.755	-0.0021749	-1.6404	4.2007E-6
21.00000	30.00000	15.00000	-1.5173	14.755	-0.0015816	-1.3991	3.5868E-6
22.00000	30.00000	15.00000	-1.4826	14.755	-0.0010903	-1.1777	3.0230E-6
23.00000	30.00000	15.00000	-1.4447	14.755	-736.10E-6	-0.98816	2.5393E-6
24.00000	30.00000	15.00000	-1.4033	14.755	-499.22E-6	-0.83204	2.1400E-6
25.00000	30.00000	15.00000	-1.3575	14.755	-344.73E-6	-0.70546	1.8156E-6
26.00000	30.00000	15.00000	-1.3063	14.755	-243.64E-6	-0.60302	1.5528E-6
27.00000	30.00000	15.00000	-1.2485	14.755	-176.35E-6	-0.51968	1.3387E-6
28.00000	30.00000	15.00000	-1.1824	14.755	-130.54E-6	-0.45133	1.1630E-6
29.00000	30.00000	15.00000	-1.1066	14.755	-98.615E-6	-0.39476	1.0175E-6
30.00000	30.00000	15.00000	-1.0197	14.755	-75.862E-6	-0.34750	0.0
31.00000	30.00000	15.00000	-0.92066	14.755	-59.304E-6	-0.30768	0.0
32.00000	30.00000	15.00000	-0.80972	14.755	-47.022E-6	-0.27385	0.0
33.00000	30.00000	15.00000	-0.68895	14.755	-37.756E-6	-0.24490	0.0
34.00000	30.00000	15.00000	-0.56280	14.755	-30.658E-6	-0.21995	0.0
35.00000	30.00000	15.00000	-0.43762	14.755	-25.143E-6	-0.19833	0.0
36.00000	30.00000	15.00000	-0.31975	14.755	-20.807E-6	-0.17947	0.0
37.00000	30.00000	15.00000	-0.21367	14.755	-17.358E-6	-0.16295	0.0
38.00000	30.00000	15.00000	-0.12147	14.755	-14.587E-6	-0.14840	0.0
39.00000	30.00000	15.00000	-0.043368	14.755	-12.340E-6	-0.13554	0.0
40.00000	30.00000	15.00000	0.021521	14.755	-10.503E-6	-0.12412	0.0
41.00000	30.00000	15.00000	0.074588	14.755	-8.9902E-6	-0.11395	0.0
42.00000	30.00000	15.00000	0.11736	14.755	-7.7347E-6	-0.10485	0.0
43.00000	30.00000	15.00000	0.15134	14.755	-6.6864E-6	-0.096693	0.0
44.00000	30.00000	15.00000	0.17787	14.755	-5.8059E-6	-0.089354	0.0
45.00000	30.00000	15.00000	0.19817	14.755	-5.0621E-6	-0.082734	0.0
46.00000	30.00000	15.00000	0.21326	14.755	-4.4307E-6	-0.076746	0.0
47.00000	30.00000	15.00000	0.22404	14.755	-3.8922E-6	-0.071317	0.0
48.00000	30.00000	15.00000	0.23127	14.755	-3.4307E-6	-0.066383	0.0
49.00000	30.00000	15.00000	0.23557	14.755	-3.0337E-6	-0.061889	0.0
50.00000	30.00000	15.00000	0.23750	14.755	-2.6907E-6	-0.057787	0.0
51.00000	30.00000	15.00000	0.23750	14.755	-2.3934E-6	-0.054036	0.0
52.00000	30.00000	15.00000	0.23595	14.755	-2.1347E-6	-0.050599	0.0
53.00000	30.00000	15.00000	0.23315	14.755	-1.9089E-6	-0.047444	0.0
54.00000	30.00000	15.00000	0.22939	14.755	-1.7112E-6	-0.044543	0.0
55.00000	30.00000	15.00000	0.22487	14.755	-1.5376E-6	-0.041871	0.0
-25.00000	31.00000	15.00000	0.19773	14.755	-4.7812E-6	-0.079972	0.0
-24.00000	31.00000	15.00000	0.20270	14.755	-5.4678E-6	-0.086228	0.0
-23.00000	31.00000	15.00000	0.20734	14.755	-6.2773E-6	-0.093144	0.0
-22.00000	31.00000	15.00000	0.21154	14.755	-7.2367E-6	-0.10081	0.0
-21.00000	31.00000	15.00000	0.21517	14.755	-8.3800E-6	-0.10932	0.0
-20.00000	31.00000	15.00000	0.21806	14.755	-9.7504E-6	-0.11882	0.0
-19.00000	31.00000	15.00000	0.22003	14.755	-11.404E-6	-0.12943	0.0
-18.00000	31.00000	15.00000	0.22086	14.755	-13.412E-6	-0.14132	0.0
-17.00000	31.00000	15.00000	0.22027	14.755	-15.871E-6	-0.15472	0.0
-16.00000	31.00000	15.00000	0.21796	14.755	-18.905E-6	-0.16984	0.0
-15.00000	31.00000	15.00000	0.21356	14.755	-22.682E-6	-0.18700	0.0
-14.00000	31.00000	15.00000	0.20665	14.755	-27.431E-6	-0.20655	0.0
-13.00000	31.00000	15.00000	0.19672	14.755	-33.465E-6	-0.22892	0.0
-12.00000	31.00000	15.00000	0.18321	14.755	-41.220E-6	-0.25465	0.0
-11.00000	31.00000	15.00000	0.16546	14.755	-51.313E-6	-0.28440	0.0
-10.00000	31.00000	15.00000	0.14270	14.755	-64.627E-6	-0.31899	0.0
-9.00000	31.00000	15.00000	0.11410	14.755	-82.441E-6	-0.35943	0.0
-8.00000	31.00000	15.00000	0.078733	14.755	-106.63E-6	-0.40700	1.0489E-6
-7.00000	31.00000	15.00000	0.035614	14.755	-139.96E-6	-0.46324	1.1936E-6
-6.00000	31.00000	15.00000	-0.016236	14.755	-186.48E-6	-0.53002	1.3652E-6
-5.00000	31.00000	15.00000	-0.077696	14.755	-252.03E-6	-0.60947	1.5693E-6
-4.00000	31.00000	15.00000	-0.14937	14.755	-344.48E-6	-0.70380	1.8113E-6
-3.00000	31.00000	15.00000	-0.23132	14.755	-473.20E-6	-0.81475	2.0958E-6
-2.00000	31.00000	15.00000	-0.32274	14.755	-646.02E-6	-0.94264	2.4232E-6
-1.00000	31.00000	15.00000	-0.42160	14.755	-862.83E-6	-1.0849	2.7871E-6
0.00000	31.00000	15.00000	-0.52457	14.755	-0.0011084	-1.2352	3.1713E-6
1.00000	31.00000	15.00000	-0.62747	14.755	-0.0013536	-1.3843	3.5522E-6
2.00000	31.00000	15.00000	-0.72608	14.755	-0.0015695	-1.5227	3.9061E-6
3.00000	31.00000	15.00000	-0.81705	14.755	-0.0017408	-1.6440	4.2167E-6
4.00000	31.00000	15.00000	-0.89834	14.755	-0.0018672	-1.7456	4.4770E-6
5.00000	31.00000	15.00000	-0.96907	14.755	-0.0019565	-1.8275	4.6870E-6
6.00000	31.00000	15.00000	-1.0292	14.755	-0.0020177	-1.8912	4.8505E-6
7.00000	31.00000	15.00000	-1.0794	14.755	-0.0020586	-1.9385	4.9720E-6
8.00000	31.00000	15.00000	-1.1202	14.755	-0.0020844	-1.9711	5.0557E-6
9.00000	31.00000	15.00000	-1.1527	14.755	-0.0020986	-1.9901	5.1046E-6
10.00000	31.00000	15.00000	-1.1777	14.755	-0.0021031	-1.9964	5.1207E-6
11.00000	31.00000	15.00000	-1.1958	14.755	-0.0020986	-1.9901	5.1046E-6
12.00000	31.00000	15.00000	-1.2078	14.755	-0.0020844	-1.9711	5.0557E-6
13.00000	31.00000	15.00000	-1.2143	14.755	-0.0020586	-1.9385	4.9720E-6
14.00000	31.00000	15.00000	-1.2157	14.755	-0.0020177	-1.8912	4.8505E-6
15.00000	31.00000	15.00000	-1.2125	14.755	-0.0		

Oasys

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.

Sheet No.

Rev.

J15249

Drg. Ref.

Made byMP

Date

Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z [Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
50.00000	31.00000	15.00000	0.23736	14.755	-2.5712E-6	-0.056239	0.0
51.00000	31.00000	15.00000	0.23654	14.755	-2.2914E-6	-0.052647	0.0
52.00000	31.00000	15.00000	0.23438	14.755	-2.0474E-6	-0.049350	0.0
53.00000	31.00000	15.00000	0.23116	14.755	-1.8339E-6	-0.046319	0.0
54.00000	31.00000	15.00000	0.22708	14.755	-1.6465E-6	-0.043527	0.0
55.00000	31.00000	15.00000	0.22236	14.755	-1.4817E-6	-0.040952	0.0
-25.00000	32.00000	15.00000	0.19530	14.755	-4.5048E-6	-0.077201	0.0
-24.00000	32.00000	15.00000	0.20032	14.755	-5.1362E-6	-0.083098	0.0
-23.00000	32.00000	15.00000	0.20506	14.755	-5.8775E-6	-0.089598	0.0
-22.00000	32.00000	15.00000	0.20942	14.755	-6.7517E-6	-0.096779	0.0
-21.00000	32.00000	15.00000	0.21329	14.755	-7.7881E-6	-0.10473	0.0
-20.00000	32.00000	15.00000	0.21652	14.755	-9.0233E-6	-0.11356	0.0
-19.00000	32.00000	15.00000	0.21895	14.755	-10.504E-6	-0.12339	0.0
-18.00000	32.00000	15.00000	0.22038	14.755	-12.290E-6	-0.13436	0.0
-17.00000	32.00000	15.00000	0.22060	14.755	-14.459E-6	-0.14665	0.0
-16.00000	32.00000	15.00000	0.21934	14.755	-17.111E-6	-0.16045	0.0
-15.00000	32.00000	15.00000	0.21629	14.755	-20.379E-6	-0.17601	0.0
-14.00000	32.00000	15.00000	0.21110	14.755	-24.441E-6	-0.19361	0.0
-13.00000	32.00000	15.00000	0.20337	14.755	-29.533E-6	-0.21360	0.0
-12.00000	32.00000	15.00000	0.19263	14.755	-35.973E-6	-0.23637	0.0
-11.00000	32.00000	15.00000	0.17838	14.755	-44.202E-6	-0.26243	0.0
-10.00000	32.00000	15.00000	0.16004	14.755	-54.823E-6	-0.29236	0.0
-9.00000	32.00000	15.00000	0.13698	14.755	-68.667E-6	-0.32686	0.0
-8.00000	32.00000	15.00000	0.10857	14.755	-86.886E-6	-0.36675	0.0
-7.00000	32.00000	15.00000	0.074131	14.755	-111.06E-6	-0.41299	1.0643E-6
-6.00000	32.00000	15.00000	0.033082	14.755	-143.29E-6	-0.46662	1.2022E-6
-5.00000	32.00000	15.00000	-0.015040	14.755	-186.30E-6	-0.52867	1.3618E-6
-4.00000	32.00000	15.00000	-0.070436	14.755	-243.22E-6	-0.60003	1.5451E-6
-3.00000	32.00000	15.00000	-0.132888	14.755	-317.02E-6	-0.68107	1.7531E-6
-2.00000	32.00000	15.00000	-0.20158	14.755	-409.22E-6	-0.77123	1.9844E-6
-1.00000	32.00000	15.00000	-0.27501	14.755	-517.93E-6	-0.86849	2.2338E-6
0.00000	32.00000	15.00000	-0.35099	14.755	-636.59E-6	-0.96928	2.4921E-6
1.00000	32.00000	15.00000	-0.42692	14.755	-754.99E-6	-1.0689	2.7474E-6
2.00000	32.00000	15.00000	-0.50019	14.755	-862.92E-6	-1.1627	2.9878E-6
3.00000	32.00000	15.00000	-0.56859	14.755	-953.77E-6	-1.2469	3.2039E-6
4.00000	32.00000	15.00000	-0.63059	14.755	-0.0010256	-1.3196	3.3902E-6
5.00000	32.00000	15.00000	-0.68533	14.755	-0.0010798	-1.3798	3.5449E-6
6.00000	32.00000	15.00000	-0.73254	14.755	-0.0011191	-1.4278	3.6683E-6
7.00000	32.00000	15.00000	-0.77234	14.755	-0.0011466	-1.4642	3.7617E-6
8.00000	32.00000	15.00000	-0.80512	14.755	-0.0011645	-1.4896	3.8270E-6
9.00000	32.00000	15.00000	-0.83138	14.755	-0.0011747	-1.5046	3.8655E-6
10.00000	32.00000	15.00000	-0.85166	14.755	-0.0011779	-1.5095	3.8783E-6
11.00000	32.00000	15.00000	-0.86648	14.755	-0.0011747	-1.5046	3.8655E-6
12.00000	32.00000	15.00000	-0.87634	14.755	-0.0011645	-1.4896	3.8270E-6
13.00000	32.00000	15.00000	-0.88167	14.755	-0.0011466	-1.4642	3.7617E-6
14.00000	32.00000	15.00000	-0.88284	14.755	-0.0011191	-1.4278	3.6683E-6
15.00000	32.00000	15.00000	-0.88017	14.755	-0.0010798	-1.3798	3.5449E-6
16.00000	32.00000	15.00000	-0.87393	14.755	-0.0010256	-1.3196	3.3902E-6
17.00000	32.00000	15.00000	-0.86437	14.755	-953.77E-6	-1.2469	3.2039E-6
18.00000	32.00000	15.00000	-0.85171	14.755	-862.92E-6	-1.1627	2.9878E-6
19.00000	32.00000	15.00000	-0.83619	14.755	-754.99E-6	-1.0689	2.7474E-6
20.00000	32.00000	15.00000	-0.81799	14.755	-636.59E-6	-0.96928	2.4921E-6
21.00000	32.00000	15.00000	-0.79729	14.755	-517.93E-6	-0.86849	2.2338E-6
22.00000	32.00000	15.00000	-0.77417	14.755	-409.22E-6	-0.77123	1.9844E-6
23.00000	32.00000	15.00000	-0.74859	14.755	-317.02E-6	-0.68107	1.7531E-6
24.00000	32.00000	15.00000	-0.72039	14.755	-243.22E-6	-0.60003	1.5451E-6
25.00000	32.00000	15.00000	-0.68922	14.755	-186.30E-6	-0.52867	1.3618E-6
26.00000	32.00000	15.00000	-0.65467	14.755	-143.29E-6	-0.46662	1.2022E-6
27.00000	32.00000	15.00000	-0.61620	14.755	-111.06E-6	-0.41299	1.0643E-6
28.00000	32.00000	15.00000	-0.57330	14.755	-86.886E-6	-0.36675	0.0
29.00000	32.00000	15.00000	-0.52552	14.755	-68.667E-6	-0.32686	0.0
30.00000	32.00000	15.00000	-0.47258	14.755	-54.823E-6	-0.29236	0.0
31.00000	32.00000	15.00000	-0.41460	14.755	-44.202E-6	-0.26243	0.0
32.00000	32.00000	15.00000	-0.35216	14.755	-35.973E-6	-0.23637	0.0
33.00000	32.00000	15.00000	-0.28649	14.755	-29.532E-6	-0.21360	0.0
34.00000	32.00000	15.00000	-0.21940	14.755	-24.441E-6	-0.19361	0.0
35.00000	32.00000	15.00000	-0.15310	14.755	-20.379E-6	-0.17601	0.0
36.00000	32.00000	15.00000	-0.08974	14.755	-17.111E-6	-0.16045	0.0
37.00000	32.00000	15.00000	-0.031270	14.755	-14.459E-6	-0.14665	0.0
38.00000	32.00000	15.00000	0.021214	14.755	-12.290E-6	-0.13436	0.0
39.00000	32.00000	15.00000	0.067069	14.755	-10.504E-6	-0.12339	0.0
40.00000	32.00000	15.00000	0.106621	14.755	-9.0233E-6	-0.11356	0.0
41.00000	32.00000	15.00000	0.13891	14.755	-7.7881E-6	-0.10473	0.0
42.00000	32.00000	15.00000	0.16567	14.755	-6.7517E-6	-0.096779	0.0
43.00000	32.00000	15.00000	0.18709	14.755	-5.8775E-6	-0.089598	0.0
44.00000	32.00000	15.00000	0.20381	14.755	-5.1362E-6	-0.083098	0.0
45.00000	32.00000	15.00000	0.21644	14.755	-4.5048E-6	-0.077201	0.0
46.00000	32.00000	15.00000	0.22557	14.755	-3.9645E-6	-0.071838	0.0
47.00000	32.00000	15.00000	0.23173	14.755	-3.5003E-6	-0.066952	0.0
48.00000	32.00000	15.00000	0.23538	14.755	-3.0999E-6	-0.062491	0.0
49.00000	32.00000	15.00000	0.23696	14.755	-2.7532E-6	-0.058410	0.0
50.00000	32.00000	15.00000	0.23680	14.755	-2.4520E-6	-0.054671	0.0
51.00000	32.00000	15.00000	0.23524	14.755	-2.1895E-6	-0.051238	0.0
52.00000	32.00000	15.00000	0.23253	14.755	-1.9599E-6	-0.048081	0.0
53.00000	32.00000	15.00000	0.22891	14.755	-1.7586E-6	-0.045173	0.0
54.00000	32.00000	15.00000	0.22456	14.755	-1.5815E-6	-0.042491	0.0
55.00000	32.00000	15.00000	0.21966	14.755	-1.4293E-6	-0.040014	0.0
-25.00000	33.00000	15.00000	0.19274	14.755	-4.2346E-6	-0.074434	0.0
-24.00000	33.00000	15.00000	0.19780	14.755	-4.8133E-6	-0.079981	0.0
-23.00000	33.00000	15.00000	0.20262	14.755	-5.4894E-6	-0.086076	0.0
-22.00000	33.00000	15.00000	0.20712	14.755	-6.2830E-6	-0.092788	0.0
-21.00000	33.00000	15.00000	0.21120	14.755	-7.2186E-6	-0.10019	0.0
-20.00000	33.00000	15.00000	0.21473	14.755	-8.3271E-6	-0.10839	0.0
-19.00000	33.00000	15.00000	0.21757	14.755	-9.6471E-6	-0.11747	0.0
-18.00000	33.00000	15.00000	0.21956	14.755	-11.228E-6	-0.12756	0.0
-17.00000	33.00000	15.00000	0.22051	14.755	-13.131E-6	-0.13880	0.0
-16.00000	33.00000	15.00000	0.22020	14.755	-15.273E-6	-0.15136	0.0
-15.00000	33.00000	15.00000	0.21837	14.755	-18.250E-6	-0.16542	0.0
-14.00000	33.00000	15.00000	0.21474	14.755	-21.703E-6	-0.18122	0.0
-13.00000	33.00000	15.00000	0.20897	14.755	-25.974E-6	-0.19902	0.0
-12.00000	33.00000	15.00000	0.20172	14.755	-31.293E-6	-0.21912	0.0
-11.00000	33.00000	15.00000	0.18958	14.755	-37.965E-6	-0.24188	0.0
-10.00000	33.00000	15.00000	0.17512	14.755	-46.397E-6	-0.26772	0.0
-9.00000	33.00000	15.00000	0.15689	14.755	-57.118E-6	-0.29710	0.0
-8.00000	33.00000	15.00000	0.13443	14.755	-70.822E-6	-0.33056	0.0
-7.00000	33.00000	15.00000	0.10732	14.755	-88.394E-6	-0.36861	0.0
-6.00000	33.00000	15.00000	0.075218	14.755	-110.92E-6	-0.41190	1.0615E-6
-5.00000	33.00000	15.00000	0.037892	14.755	-139.64E-6	-0.46082	1.1873E-6
-4.00000	33.00000	15.00000	-0.0046587	14.755	-175.80E-6	-0.51567	1.3283E-6
-3.00000	33.00000	15.00000	-0.052134	14.755	-220.30E-6	-0.57634	1.4843E-6
-2.00000	33.00000	15.00000	-0.103089	14.755	-273.17E-6	-0.6421	1.6533E-6
-1.00000	33.00000	15.00000	-0.15871	14.755	-333.03E-6	-0.71166	1.8318E-6
0.00000	33.00000	15.00000	-0.21524	14.755	-396.86E-6	-0.78276	2.0144E-6
1.00000	33.00000	15.00000	-0.27174	14.755	-460.46E-6	-0.85281	2.1942E-6
2.00000	33.00000	15.00000	-0.32651	14.755	-519.65E-6	-0.91920	2.3646E-6
3.00000	33.00000	15.00000	-0.37807	14.755	-571.36E-6	-0.97972	2.5201E-6
4.00000	33.00000	15.00000	-0.42529	14.755	-614.15E-6	-1.0329	2.6566E-6
5.00000	33.00000	15.00000	-0.46745	14.755	-647.98E-6	-1.0778	2.7720E-6
6.00000	33.						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location		Displacement		Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	18.00000	33.00000	15.00000	-0.59826	14.755	-519.65E-6	-0.91920	2.3646E-6
	19.00000	33.00000	15.00000	-0.58564	14.755	-460.46E-6	-0.85281	2.1942E-6
	20.00000	33.00000	15.00000	-0.57085	14.755	-396.86E-6	-0.78276	2.0144E-6
	21.00000	33.00000	15.00000	-0.55401	14.755	-333.03E-6	-0.71166	1.8318E-6
	22.00000	33.00000	15.00000	-0.53517	14.755	-273.17E-6	-0.64214	1.6533E-6
	23.00000	33.00000	15.00000	-0.51429	14.755	-220.30E-6	-0.57634	1.4843E-6
	24.00000	33.00000	15.00000	-0.49127	14.755	-175.80E-6	-0.51567	1.3283E-6
	25.00000	33.00000	15.00000	-0.46590	14.755	-139.64E-6	-0.46082	1.1873E-6
	26.00000	33.00000	15.00000	-0.43791	14.755	-110.92E-6	-0.41190	1.0615E-6
	27.00000	33.00000	15.00000	-0.40700	14.755	-88.394E-6	-0.36864	0.0
	28.00000	33.00000	15.00000	-0.37287	14.755	-70.822E-6	-0.33056	0.0
	29.00000	33.00000	15.00000	-0.33532	14.755	-57.118E-6	-0.29710	0.0
	30.00000	33.00000	15.00000	-0.29430	14.755	-46.397E-6	-0.26772	0.0
	31.00000	33.00000	15.00000	-0.24998	14.755	-37.966E-6	-0.24188	0.0
	32.00000	33.00000	15.00000	-0.20290	14.755	-31.293E-6	-0.21912	0.0
	33.00000	33.00000	15.00000	-0.15392	14.755	-25.974E-6	-0.19902	0.0
	34.00000	33.00000	15.00000	-0.10425	14.755	-21.703E-6	-0.18122	0.0
	35.00000	33.00000	15.00000	-0.055283	14.755	-18.250E-6	-0.16542	0.0
	36.00000	33.00000	15.00000	-0.0084191	14.755	-15.437E-6	-0.15136	0.0
	37.00000	33.00000	15.00000	0.022144	14.755	-13.131E-6	-0.13880	0.0
	38.00000	33.00000	15.00000	0.074531	14.755	-11.228E-6	-0.12756	0.0
	39.00000	33.00000	15.00000	0.10924	14.755	-9.6471E-6	-0.11747	0.0
	40.00000	33.00000	15.00000	0.13909	14.755	-8.3271E-6	-0.10839	0.0
	41.00000	33.00000	15.00000	0.16417	14.755	-7.2186E-6	-0.10019	0.0
	42.00000	33.00000	15.00000	0.18475	14.755	-6.2830E-6	-0.09288	0.0
	43.00000	33.00000	15.00000	0.20120	14.755	-5.4894E-6	-0.08676	0.0
	44.00000	33.00000	15.00000	0.21395	14.755	-4.8133E-6	-0.079981	0.0
	45.00000	33.00000	15.00000	0.22344	14.755	-4.2346E-6	-0.074434	0.0
	46.00000	33.00000	15.00000	0.23008	14.755	-3.7375E-6	-0.069376	0.0
	47.00000	33.00000	15.00000	0.23430	14.755	-3.3086E-6	-0.064756	0.0
	48.00000	33.00000	15.00000	0.23644	14.755	-2.9374E-6	-0.060527	0.0
	49.00000	33.00000	15.00000	0.23685	14.755	-2.6149E-6	-0.056650	0.0
	50.00000	33.00000	15.00000	0.23581	14.755	-2.3339E-6	-0.053089	0.0
	51.00000	33.00000	15.00000	0.23358	14.755	-2.0883E-6	-0.049814	0.0
	52.00000	33.00000	15.00000	0.23038	14.755	-1.8729E-6	-0.046797	0.0
	53.00000	33.00000	15.00000	0.22641	14.755	-1.6835E-6	-0.044013	0.0
	54.00000	33.00000	15.00000	0.22183	14.755	-1.5165E-6	-0.041441	0.0
	55.00000	33.00000	15.00000	0.21677	14.755	-1.3689E-6	-0.039061	0.0
	-25.00000	34.00000	15.00000	0.19005	14.755	-3.9722E-6	-0.071686	0.0
	-24.00000	34.00000	15.00000	0.19513	14.755	-4.5007E-6	-0.076892	0.0
	-23.00000	34.00000	15.00000	0.20002	14.755	-5.1154E-6	-0.082595	0.0
	-22.00000	34.00000	15.00000	0.20463	14.755	-5.8332E-6	-0.088855	0.0
	-21.00000	34.00000	15.00000	0.20889	14.755	-6.6747E-6	-0.095737	0.0
	-20.00000	34.00000	15.00000	0.21268	14.755	-7.6655E-6	-0.10332	0.0
	-19.00000	34.00000	15.00000	0.21589	14.755	-8.8374E-6	-0.11169	0.0
	-18.00000	34.00000	15.00000	0.21838	14.755	-10.230E-6	-0.12094	0.0
	-17.00000	34.00000	15.00000	0.21998	14.755	-11.893E-6	-0.13121	0.0
	-16.00000	34.00000	15.00000	0.22052	14.755	-13.890E-6	-0.14260	0.0
	-15.00000	34.00000	15.00000	0.21978	14.755	-16.300E-6	-0.15529	0.0
	-14.00000	34.00000	15.00000	0.21753	14.755	-19.238E-6	-0.16944	0.0
	-13.00000	34.00000	15.00000	0.21352	14.755	-22.790E-6	-0.18525	0.0
	-12.00000	34.00000	15.00000	0.20745	14.755	-27.165E-6	-0.20295	0.0
	-11.00000	34.00000	15.00000	0.19903	14.755	-32.559E-6	-0.22280	0.0
	-10.00000	34.00000	15.00000	0.18793	14.755	-39.237E-6	-0.24508	0.0
	-9.00000	34.00000	15.00000	0.17383	14.755	-47.535E-6	-0.27011	0.0
	-8.00000	34.00000	15.00000	0.15641	14.755	-57.865E-6	-0.29819	0.0
	-7.00000	34.00000	15.00000	0.13542	14.755	-70.719E-6	-0.32966	0.0
	-6.00000	34.00000	15.00000	0.11064	14.755	-86.650E-6	-0.36478	0.0
	-5.00000	34.00000	15.00000	0.081983	14.755	-106.22E-6	-0.40373	1.0405E-6
	-4.00000	34.00000	15.00000	0.049541	14.755	-129.91E-6	-0.44653	1.1506E-6
	-3.00000	34.00000	15.00000	0.013601	14.755	-157.95E-6	-0.49293	1.2699E-6
	-2.00000	34.00000	15.00000	-0.025291	14.755	-190.08E-6	-0.54232	1.3969E-6
	-1.00000	34.00000	15.00000	-0.066338	14.755	-225.46E-6	-0.59371	1.5290E-6
	0.00000	34.00000	15.00000	-0.10852	14.755	-262.58E-6	-0.64575	1.6628E-6
	1.00000	34.00000	15.00000	-0.15070	14.755	-299.50E-6	-0.69685	1.7941E-6
	2.00000	34.00000	15.00000	-0.19174	14.755	-334.31E-6	-0.74543	1.9190E-6
	3.00000	34.00000	15.00000	-0.23060	14.755	-365.45E-6	-0.79010	2.0338E-6
	4.00000	34.00000	15.00000	-0.26646	14.755	-392.03E-6	-0.82978	2.1358E-6
	5.00000	34.00000	15.00000	-0.29876	14.755	-413.76E-6	-0.86377	2.2232E-6
	6.00000	34.00000	15.00000	-0.32715	14.755	-430.75E-6	-0.89170	2.2950E-6
	7.00000	34.00000	15.00000	-0.35151	14.755	-443.37E-6	-0.91340	2.3509E-6
	8.00000	34.00000	15.00000	-0.37188	14.755	-452.03E-6	-0.92886	2.3906E-6
	9.00000	34.00000	15.00000	-0.38839	14.755	-457.08E-6	-0.93810	2.4144E-6
	10.00000	34.00000	15.00000	-0.40125	14.755	-458.73E-6	-0.94118	2.4223E-6
	11.00000	34.00000	15.00000	-0.41068	14.755	-457.08E-6	-0.93810	2.4144E-6
	12.00000	34.00000	15.00000	-0.41693	14.755	-452.03E-6	-0.92886	2.3906E-6
	13.00000	34.00000	15.00000	-0.42024	14.755	-443.37E-6	-0.91340	2.3509E-6
	14.00000	34.00000	15.00000	-0.42083	14.755	-430.75E-6	-0.89170	2.2950E-6
	15.00000	34.00000	15.00000	-0.41891	14.755	-413.76E-6	-0.86377	2.2232E-6
	16.00000	34.00000	15.00000	-0.41467	14.755	-392.03E-6	-0.82978	2.1358E-6
	17.00000	34.00000	15.00000	-0.40827	14.755	-365.45E-6	-0.79010	2.0338E-6
	18.00000	34.00000	15.00000	-0.39987	14.755	-334.31E-6	-0.74543	1.9190E-6
	19.00000	34.00000	15.00000	-0.38961	14.755	-299.50E-6	-0.69685	1.7941E-6
	20.00000	34.00000	15.00000	-0.37760	14.755	-262.58E-6	-0.64575	1.6628E-6
	21.00000	34.00000	15.00000	-0.36393	14.755	-225.46E-6	-0.59371	1.5290E-6
	22.00000	34.00000	15.00000	-0.34864	14.755	-190.08E-6	-0.54232	1.3969E-6
	23.00000	34.00000	15.00000	-0.33170	14.755	-157.95E-6	-0.49293	1.2699E-6
	24.00000	34.00000	15.00000	-0.31306	14.755	-129.91E-6	-0.44653	1.1506E-6
	25.00000	34.00000	15.00000	-0.29259	14.755	-106.22E-6	-0.40373	1.0405E-6
	26.00000	34.00000	15.00000	-0.27013	14.755	-86.650E-6	-0.36478	0.0
	27.00000	34.00000	15.00000	-0.24552	14.755	-70.719E-6	-0.32966	0.0
	28.00000	34.00000	15.00000	-0.21860	14.755	-57.865E-6	-0.29819	0.0
	29.00000	34.00000	15.00000	-0.18930	14.755	-47.535E-6	-0.27011	0.0
	30.00000	34.00000	15.00000	-0.15766	14.755	-39.237E-6	-0.24508	0.0
	31.00000	34.0						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-14.00000	35.00000	15.00000	0.21949	14.755	-16.996E-6	-0.15829	0.0
-13.00000	35.00000	15.00000	0.21700	14.755	-19.966E-6	-0.17231	0.0
-12.00000	35.00000	15.00000	0.21283	14.755	-23.557E-6	-0.18789	0.0
-11.00000	35.00000	15.00000	0.20675	14.755	-27.909E-6	-0.20518	0.0
-10.00000	35.00000	15.00000	0.19852	14.755	-33.199E-6	-0.22440	0.0
-9.00000	35.00000	15.00000	0.18792	14.755	-39.633E-6	-0.24573	0.0
-8.00000	35.00000	15.00000	0.17472	14.755	-47.457E-6	-0.26937	0.0
-7.00000	35.00000	15.00000	0.15876	14.755	-56.939E-6	-0.29548	0.0
-6.00000	35.00000	15.00000	0.13993	14.755	-68.360E-6	-0.32418	0.0
-5.00000	35.00000	15.00000	0.11822	14.755	-81.973E-6	-0.35552	0.0
-4.00000	35.00000	15.00000	0.093724	14.755	-97.946E-6	-0.38938	1.0036E-6
-3.00000	35.00000	15.00000	0.066706	14.755	-116.29E-6	-0.42551	1.0966E-6
-2.00000	35.00000	15.00000	0.037586	14.755	-136.77E-6	-0.46342	1.1941E-6
-1.00000	35.00000	15.00000	0.0069478	14.755	-158.85E-6	-0.50241	1.2944E-6
0.00000	35.00000	15.00000	-0.024498	14.755	-181.75E-6	-0.54158	1.3952E-6
1.00000	35.00000	15.00000	-0.055962	14.755	-204.49E-6	-0.57992	1.4938E-6
2.00000	35.00000	15.00000	-0.086654	14.755	-226.08E-6	-0.61641	1.5876E-6
3.00000	35.00000	15.00000	-0.11585	14.755	-245.71E-6	-0.65011	1.6743E-6
4.00000	35.00000	15.00000	-0.14296	14.755	-262.82E-6	-0.68027	1.7519E-6
5.00000	35.00000	15.00000	-0.16752	14.755	-277.14E-6	-0.70633	1.8189E-6
6.00000	35.00000	15.00000	-0.18925	14.755	-288.60E-6	-0.72792	1.8745E-6
7.00000	35.00000	15.00000	-0.20801	14.755	-297.29E-6	-0.74483	1.9180E-6
8.00000	35.00000	15.00000	-0.22377	14.755	-303.34E-6	-0.75695	1.9492E-6
9.00000	35.00000	15.00000	-0.23659	14.755	-306.91E-6	-0.76423	1.9679E-6
10.00000	35.00000	15.00000	-0.24658	14.755	-308.09E-6	-0.76666	1.9742E-6
11.00000	35.00000	15.00000	-0.25390	14.755	-306.91E-6	-0.76423	1.9679E-6
12.00000	35.00000	15.00000	-0.25870	14.755	-303.34E-6	-0.75695	1.9492E-6
13.00000	35.00000	15.00000	-0.26118	14.755	-297.29E-6	-0.74483	1.9180E-6
14.00000	35.00000	15.00000	-0.26149	14.755	-288.60E-6	-0.72792	1.8745E-6
15.00000	35.00000	15.00000	-0.25980	14.755	-277.14E-6	-0.70633	1.8189E-6
16.00000	35.00000	15.00000	-0.25625	14.755	-262.82E-6	-0.68027	1.7519E-6
17.00000	35.00000	15.00000	-0.25099	14.755	-245.71E-6	-0.65011	1.6743E-6
18.00000	35.00000	15.00000	-0.24414	14.755	-226.08E-6	-0.61641	1.5876E-6
19.00000	35.00000	15.00000	-0.23580	14.755	-204.49E-6	-0.57992	1.4938E-6
20.00000	35.00000	15.00000	-0.22608	14.755	-181.75E-6	-0.54158	1.3952E-6
21.00000	35.00000	15.00000	-0.21503	14.755	-158.85E-6	-0.50241	1.2944E-6
22.00000	35.00000	15.00000	-0.20269	14.755	-136.77E-6	-0.46342	1.1941E-6
23.00000	35.00000	15.00000	-0.18905	14.755	-116.29E-6	-0.42551	1.0966E-6
24.00000	35.00000	15.00000	-0.17409	14.755	-97.946E-6	-0.38938	1.0036E-6
25.00000	35.00000	15.00000	-0.15772	14.755	-81.973E-6	-0.35552	0.0
26.00000	35.00000	15.00000	-0.13998	14.755	-68.360E-6	-0.32418	0.0
27.00000	35.00000	15.00000	-0.12046	14.755	-56.939E-6	-0.29548	0.0
28.00000	35.00000	15.00000	-0.099418	14.755	-47.457E-6	-0.26937	0.0
29.00000	35.00000	15.00000	-0.076732	14.755	-39.633E-6	-0.24573	0.0
30.00000	35.00000	15.00000	-0.052482	14.755	-33.199E-6	-0.22440	0.0
31.00000	35.00000	15.00000	-0.026577	14.755	-27.909E-6	-0.20518	0.0
32.00000	35.00000	15.00000	-178.11E-6	14.755	-23.557E-6	-0.18789	0.0
33.00000	35.00000	15.00000	0.027105	14.755	-19.966E-6	-0.17231	0.0
34.00000	35.00000	15.00000	0.054436	14.755	-16.996E-6	-0.15829	0.0
35.00000	35.00000	15.00000	0.081197	14.755	-14.529E-6	-0.14564	0.0
36.00000	35.00000	15.00000	0.106677	14.755	-12.472E-6	-0.13422	0.0
37.00000	35.00000	15.00000	0.13062	14.755	-10.749E-6	-0.12390	0.0
38.00000	35.00000	15.00000	0.15228	14.755	-9.3010E-6	-0.11455	0.0
39.00000	35.00000	15.00000	0.17148	14.755	-8.0781E-6	-0.10608	0.0
40.00000	35.00000	15.00000	0.18804	14.755	-7.0412E-6	-0.098383	0.0
41.00000	35.00000	15.00000	0.20192	14.755	-6.1561E-6	-0.091350	0.0
42.00000	35.00000	15.00000	0.21321	14.755	-5.4042E-6	-0.084997	0.0
43.00000	35.00000	15.00000	0.22203	14.755	-4.7572E-6	-0.079171	0.0
44.00000	35.00000	15.00000	0.22858	14.755	-4.2001E-6	-0.073845	0.0
45.00000	35.00000	15.00000	0.23307	14.755	-3.7189E-6	-0.068968	0.0
46.00000	35.00000	15.00000	0.23574	14.755	-3.3018E-6	-0.064495	0.0
47.00000	35.00000	15.00000	0.23680	14.755	-2.9391E-6	-0.060386	0.0
48.00000	35.00000	15.00000	0.23649	14.755	-2.6228E-6	-0.056607	0.0
49.00000	35.00000	15.00000	0.23499	14.755	-2.3461E-6	-0.053126	0.0
50.00000	35.00000	15.00000	0.23250	14.755	-2.1034E-6	-0.049916	0.0
51.00000	35.00000	15.00000	0.22919	14.755	-1.8899E-6	-0.046950	0.0
52.00000	35.00000	15.00000	0.22521	14.755	-1.7017E-6	-0.044207	0.0
53.00000	35.00000	15.00000	0.22069	14.755	-1.5353E-6	-0.041667	0.0
54.00000	35.00000	15.00000	0.21575	14.755	-1.3879E-6	-0.039312	0.0
55.00000	35.00000	15.00000	0.21048	14.755	-1.2570E-6	-0.037126	0.0
-25.00000	36.00000	15.00000	0.18484	14.755	-3.4756E-6	-0.066293	0.0
-24.00000	36.00000	15.00000	0.18941	14.755	-3.9126E-6	-0.070852	0.0
-23.00000	36.00000	15.00000	0.19436	14.755	-4.4160E-6	-0.075818	0.0
-22.00000	36.00000	15.00000	0.19913	14.755	-4.9976E-6	-0.081230	0.0
-21.00000	36.00000	15.00000	0.20366	14.755	-5.6718E-6	-0.087139	0.0
-20.00000	36.00000	15.00000	0.20786	14.755	-6.4557E-6	-0.093590	0.0
-19.00000	36.00000	15.00000	0.21166	14.755	-7.3703E-6	-0.10066	0.0
-18.00000	36.00000	15.00000	0.21495	14.755	-8.4409E-6	-0.10841	0.0
-17.00000	36.00000	15.00000	0.21762	14.755	-9.6983E-6	-0.11690	0.0
-16.00000	36.00000	15.00000	0.21955	14.755	-11.180E-6	-0.12624	0.0
-15.00000	36.00000	15.00000	0.22060	14.755	-12.932E-6	-0.13650	0.0
-14.00000	36.00000	15.00000	0.22062	14.755	-15.009E-6	-0.14779	0.0
-13.00000	36.00000	15.00000	0.21944	14.755	-17.479E-6	-0.16022	0.0
-12.00000	36.00000	15.00000	0.21690	14.755	-20.422E-6	-0.17391	0.0
-11.00000	36.00000	15.00000	0.21281	14.755	-23.935E-6	-0.18899	0.0
-10.00000	36.00000	15.00000	0.20701	14.755	-28.131E-6	-0.20557	0.0
-9.00000	36.00000	15.00000	0.19933	14.755	-33.138E-6	-0.22379	0.0
-8.00000	36.00000	15.00000	0.18963	14.755	-39.100E-6	-0.24374	0.0
-7.00000	36.00000	15.00000	0.17779	14.755	-46.164E-6	-0.26551	0.0
-6.00000	36.00000	15.00000	0.16377	14.755	-54.468E-6	-0.28914	0.0
-5.00000	36.00000	15.00000	0.14759	14.755	-64.122E-6	-0.31450	0.0
-4.00000	36.00000	15.00000	0.12934	14.755	-75.173E-6	-0.34171	0.0
-3.00000	36.00000	15.00000	0.10924	14.755	-87.568E-6	-0.37029	0.0
-2.00000	36.00000	15.00000	0.087621	14.755	-101.13E-6	-0.39993	1.0308E-6
-1.00000	36.00000	15.00000	0.064900	14.755	-115.53E-6	-0.43013	1.1085E-6
0.00000	36.00000	15.00000	0.041587	14.755	-130.32E-6	-0.46020	1.1861E-6
1.00000	36.00000	15.00000	0.018236	14.755	-144.98E-6	-0.48968	1.2617E-6
2.00000	36.00000	15.00000	-0.0045962	14.755	-158.96E-6	-0.51765	1.3337E-6
3.00000	36.00000	15.00000	-0.026394	14.755	-171.80E-6	-0.54355	1.4004E-6
4.00000	36.00000	15.00000	-0.046717	14.755	-183.16E-6	-0.56683	1.4603E-6
5.00000	36.00000	15.00000	-0.065224	14.755	-192.82E-6	-0.58700	1.5124E-6
6.00000	36.00000	15.00000	-0.081676	14.755	-200.68E-6	-0.60391	1.5558E-6
7.00000	36.00000	15.00000	-0.095935	14.755	-206.73E-6	-0.61719	1.5899E-6
8.00000	36.00000	15.00000	-0.10795	14.755	-211.00E-6	-0.62674	1.6145E-6
9.00000	36.00000	15.00000	-0.11773	14.755	-213.54E-6	-0.63250	1.6293E-6
10.00000	36.00000	15.00000	-0.12535	14.755	-214.38E-6	-0.63442	1.6345E-6
11.00000	36.00000	15.00000	-0.13089	14.755	-213.54E-6	-0.63250	1.6293E-6
12.00000	36.00000	15.00000	-0.13447	14.755	-211.00E-6	-0.62674	1.6145E-6
13.00000	36.00000	15.00000	-0.13623	14.755	-206.73E-6	-0.61719	1.5899E-6
14.00000	36.00000	15.00000	-0.13628	14.755	-200.68E-6	-0.60391	1.5558E-6
15.00000	36.00000	15.00000	-0.13475	14.755	-192.82E-6	-0.58700	1.5124E-6
16.00000	36.00000	15.00000	-0.13176	14.755	-183.16E-6	-0.56683	1.4603E-6
17.00000	36.00000	15.00000	-0.12742	14.755	-171.80E-6	-0.54355	1.4004E-6
18.00000	36.00000	15.00000	-0.12183	14.755	-158.96E-6	-0.51765	1.3337E-6
19.00000	36.00000	15.00000	-0.11508	14.755	-144.98E-6	-0.48968	1.2617E-6
20.00000	36.00000	15.00000	-0.10723	14.755	-130.32E-6	-0.46020	1.1861E-6
21.00000	36.00000	15.00000	-0.098347				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z [Level] [mOD]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
35.00000	36.00000	15.00000	0.12770	14.755	-12.932E-6	-0.13650	0.0
36.00000	36.00000	15.00000	0.14637	14.755	-11.180E-6	-0.12624	0.0
37.00000	36.00000	15.00000	0.16374	14.755	-9.6983E-6	-0.11690	0.0
38.00000	36.00000	15.00000	0.17947	14.755	-8.4409E-6	-0.10841	0.0
39.00000	36.00000	15.00000	0.19336	14.755	-7.3703E-6	-0.10066	0.0
40.00000	36.00000	15.00000	0.20527	14.755	-6.4557E-6	-0.093596	0.0
41.00000	36.00000	15.00000	0.21516	14.755	-5.6718E-6	-0.087139	0.0
42.00000	36.00000	15.00000	0.22305	14.755	-4.9976E-6	-0.081230	0.0
43.00000	36.00000	15.00000	0.22904	14.755	-4.4160E-6	-0.075818	0.0
44.00000	36.00000	15.00000	0.23324	14.755	-3.9126E-6	-0.070852	0.0
45.00000	36.00000	15.00000	0.23583	14.755	-3.4756E-6	-0.066291	0.0
46.00000	36.00000	15.00000	0.23695	14.755	-3.0951E-6	-0.062095	0.0
47.00000	36.00000	15.00000	0.23679	14.755	-2.7629E-6	-0.058231	0.0
48.00000	36.00000	15.00000	0.23550	14.755	-2.4720E-6	-0.054668	0.0
49.00000	36.00000	15.00000	0.23326	14.755	-2.2167E-6	-0.051378	0.0
50.00000	36.00000	15.00000	0.23021	14.755	-1.9920E-6	-0.048336	0.0
51.00000	36.00000	15.00000	0.22648	14.755	-1.7937E-6	-0.045520	0.0
52.00000	36.00000	15.00000	0.22220	14.755	-1.6183E-6	-0.042911	0.0
53.00000	36.00000	15.00000	0.21748	14.755	-1.4629E-6	-0.040490	0.0
54.00000	36.00000	15.00000	0.21241	14.755	-1.3249E-6	-0.038242	0.0
-21.00000	37.00000	15.00000	0.20705	14.755	-5.2152E-6	-0.083027	0.0
-20.00000	37.00000	15.00000	0.20510	14.755	-5.9097E-6	-0.088972	0.0
-19.00000	37.00000	15.00000	0.20912	14.755	-6.7145E-6	-0.095451	0.0
-18.00000	37.00000	15.00000	0.21272	14.755	-7.6495E-6	-0.10252	0.0
-17.00000	37.00000	15.00000	0.21581	14.755	-8.7387E-6	-0.11023	0.0
-16.00000	37.00000	15.00000	0.21829	14.755	-10.011E-6	-0.11866	0.0
-15.00000	37.00000	15.00000	0.22005	14.755	-11.500E-6	-0.12787	0.0
-14.00000	37.00000	15.00000	0.22095	14.755	-13.246E-6	-0.13795	0.0
-13.00000	37.00000	15.00000	0.22089	14.755	-15.298E-6	-0.14896	0.0
-12.00000	37.00000	15.00000	0.21972	14.755	-17.712E-6	-0.16100	0.0
-11.00000	37.00000	15.00000	0.21732	14.755	-20.551E-6	-0.17414	0.0
-10.00000	37.00000	15.00000	0.21355	14.755	-23.888E-6	-0.18848	0.0
-9.00000	37.00000	15.00000	0.20829	14.755	-27.804E-6	-0.20407	0.0
-8.00000	37.00000	15.00000	0.20145	14.755	-32.379E-6	-0.22097	0.0
-7.00000	37.00000	15.00000	0.19297	14.755	-37.695E-6	-0.23922	0.0
-6.00000	37.00000	15.00000	0.18281	14.755	-43.818E-6	-0.25880	0.0
-5.00000	37.00000	15.00000	0.17101	14.755	-50.791E-6	-0.27964	0.0
-4.00000	37.00000	15.00000	0.15768	14.755	-58.612E-6	-0.30162	0.0
-3.00000	37.00000	15.00000	0.14296	14.755	-67.224E-6	-0.32452	0.0
-2.00000	37.00000	15.00000	0.12712	14.755	-76.495E-6	-0.34806	0.0
-1.00000	37.00000	15.00000	0.11047	14.755	-86.223E-6	-0.37186	0.0
0.00000	37.00000	15.00000	0.093365	14.755	-96.138E-6	-0.39547	1.0193E-6
1.00000	37.00000	15.00000	0.076204	14.755	-105.94E-6	-0.41843	1.0784E-6
2.00000	37.00000	15.00000	0.059387	14.755	-115.31E-6	-0.44024	1.1346E-6
3.00000	37.00000	15.00000	0.043284	14.755	-123.97E-6	-0.46045	1.1866E-6
4.00000	37.00000	15.00000	0.028221	14.755	-131.71E-6	-0.47867	1.2335E-6
5.00000	37.00000	15.00000	0.014457	14.755	-138.37E-6	-0.49455	1.2744E-6
6.00000	37.00000	15.00000	0.0021843	14.755	-143.85E-6	-0.50783	1.3086E-6
7.00000	37.00000	15.00000	-0.0084770	14.755	-148.11E-6	-0.51833	1.3356E-6
8.00000	37.00000	15.00000	-0.017467	14.755	-151.15E-6	-0.52590	1.3552E-6
9.00000	37.00000	15.00000	-0.024777	14.755	-152.97E-6	-0.53048	1.3669E-6
10.00000	37.00000	15.00000	-0.030438	14.755	-153.57E-6	-0.53201	1.3709E-6
11.00000	37.00000	15.00000	-0.034512	14.755	-152.97E-6	-0.53048	1.3669E-6
12.00000	37.00000	15.00000	-0.037076	14.755	-151.15E-6	-0.52590	1.3552E-6
13.00000	37.00000	15.00000	-0.038222	14.755	-148.11E-6	-0.51833	1.3356E-6
14.00000	37.00000	15.00000	-0.038043	14.755	-143.85E-6	-0.50783	1.3086E-6
15.00000	37.00000	15.00000	-0.036636	14.755	-138.37E-6	-0.49455	1.2744E-6
16.00000	37.00000	15.00000	-0.034092	14.755	-131.71E-6	-0.47867	1.2335E-6
17.00000	37.00000	15.00000	-0.030500	14.755	-123.97E-6	-0.46045	1.1866E-6
18.00000	37.00000	15.00000	-0.025939	14.755	-115.31E-6	-0.44024	1.1346E-6
19.00000	37.00000	15.00000	-0.020481	14.755	-105.94E-6	-0.41843	1.0784E-6
20.00000	37.00000	15.00000	-0.014183	14.755	-96.138E-6	-0.39547	1.0193E-6
21.00000	37.00000	15.00000	-0.0070910	14.755	-86.223E-6	-0.37186	0.0
22.00000	37.00000	15.00000	764.95E-6	14.755	-76.495E-6	-0.34806	0.0
23.00000	37.00000	15.00000	0.0093711	14.755	-67.224E-6	-0.32452	0.0
24.00000	37.00000	15.00000	0.018728	14.755	-58.612E-6	-0.30162	0.0
25.00000	37.00000	15.00000	0.028845	14.755	-50.791E-6	-0.27964	0.0
26.00000	37.00000	15.00000	0.039737	14.755	-43.818E-6	-0.25880	0.0
27.00000	37.00000	15.00000	0.051411	14.755	-37.695E-6	-0.23922	0.0
28.00000	37.00000	15.00000	0.063857	14.755	-32.379E-6	-0.22097	0.0
29.00000	37.00000	15.00000	0.077038	14.755	-27.804E-6	-0.20407	0.0
30.00000	37.00000	15.00000	0.090871	14.755	-23.888E-6	-0.18848	0.0
31.00000	37.00000	15.00000	0.10523	14.755	-20.551E-6	-0.17414	0.0
32.00000	37.00000	15.00000	0.11992	14.755	-17.712E-6	-0.16100	0.0
33.00000	37.00000	15.00000	0.13472	14.755	-15.298E-6	-0.14896	0.0
34.00000	37.00000	15.00000	0.14995	14.755	-13.246E-6	-0.13795	0.0
35.00000	37.00000	15.00000	0.16351	14.755	-11.500E-6	-0.12787	0.0
36.00000	37.00000	15.00000	0.17693	14.755	-10.011E-6	-0.11866	0.0
37.00000	37.00000	15.00000	0.18932	14.755	-8.7387E-6	-0.11023	0.0
38.00000	37.00000	15.00000	0.20047	14.755	-7.6495E-6	-0.10252	0.0
39.00000	37.00000	15.00000	0.21023	14.755	-6.7145E-6	-0.095451	0.0
40.00000	37.00000	15.00000	0.21847	14.755	-5.9097E-6	-0.088972	0.0
41.00000	37.00000	15.00000	0.22517	14.755	-5.2152E-6	-0.083027	0.0
42.00000	37.00000	15.00000	0.23034	14.755	-4.6142E-6	-0.077566	0.0
43.00000	37.00000	15.00000	0.23402	14.755	-4.0926E-6	-0.072545	0.0
44.00000	37.00000	15.00000	0.23631	14.755	-3.6389E-6	-0.067923	0.0
45.00000	37.00000	15.00000	0.23732	14.755	-3.2430E-6	-0.063664	0.0
46.00000	37.00000	15.00000	0.23717	14.755	-2.8968E-6	-0.059735	0.0
47.00000	37.00000	15.00000	0.23598	14.755	-2.5932E-6	-0.056106	0.0
48.00000	37.00000	15.00000	0.23390	14.755	-2.3264E-6	-0.052751	0.0
49.00000	37.00000	15.00000	0.23103	14.755	-2.0913E-6	-0.049464	0.0
50.00000	37.00000	15.00000	0.22751	14.755	-1.8837E-6	-0.046768	0.0
51.00000	37.00000	15.00000	0.22344	14.755	-1.6999E-6	-0.044099	0.0
52.00000	37.00000	15.00000	0.21893	14.755	-1.5369E-6	-0.041620	0.0
53.00000	37.00000	15.00000	0.21405	14.755	-1.3920E-6	-0.039317	0.0
54.00000	37.00000	15.00000	0.20890	14.755	-1.2630E-6	-0.037170	0.0
55.00000	37.00000	15.00000	0.20355	14.755	-1.1478E-6	-0.035176	0.0
-25.00000	38.00000	15.00000	0.17821	14.755	-3.0218E-6	-0.061096	0.0
-24.00000	38.00000	15.00000	0.18321	14.755	-3.3796E-6	-0.065067	0.0
-23.00000	38.00000	15.00000	0.18816	14.755	-3.7877E-6	-0.069364	0.0
-22.00000	38.00000	15.00000	0.19299	14.755	-4.2543E-6	-0.074019	0.0
-21.00000	38.00000	15.00000	0.19766	14.755	-4.7890E-6	-0.079056	0.0
-20.00000	38.00000	15.00000	0.20213	14.755	-5.4030E-6	-0.084522	0.0
-19.00000	38.00000	15.00000	0.20632	14.755	-6.1097E-6	-0.090454	0.0
-18.00000	38.00000	15.00000	0.21018	14.755	-6.9248E-6	-0.096896	0.0
-17.00000	38.00000	15.00000	0.21361	14.755	-7.8667E-6	-0.10388	0.0
-16.00000	38.00000	15.00000	0.21655	14.755	-8.9573E-6	-0.11150	0.0
-15.00000	38.00000	15.00000	0.21889	14.755	-10.222E-6	-0.11977	0.0
-14.00000	38.00000	15.00000	0.22055	14.755	-11.690E-6	-0.12875	0.0
-13.00000	38.00000	15.00000	0.22142	14.755	-13.395E-6	-0.13851	0.0
-12.00000	38.00000	15.00000	0.22140	14.755	-15.376E-6	-0.14909	0.0
-11.00000	38.00000	15.00000	0.22039	14.755	-17.675E-6	-0.16057	0.0
-10.00000	38.00000	15.00000	0.21829	14.755	-20.340E-6	-0.17298	0.0
-9.00000	38.00000	15.00000	0.21502	14.755	-23.418E-6	-0.18636	0.0
-8.00000	38.00000	15.00000	0.21052	14.755	-26.956E-6	-0.20074	0.0
-7.00000	38.00000	15.00000	0.20474	14.755	-30.998E-6	-0.21614	0.0
-6.00000	38.00000	15.00000	0.19767	14.755	-35.573E-6	-0.23243	0.0
-5.00000	38.00000	15.00000	0.18935	14.755	-40.693E-6	-0.2	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [MOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
3.00000	38.00000	15.00000	0.097351	14.755	-91.802E-6	-0.39437	1.0165E-6
4.00000	38.00000	15.00000	0.086374	14.755	-97.194E-6	-0.40879	1.0537E-6
5.00000	38.00000	15.00000	0.076323	14.755	-101.87E-6	-0.42138	1.0861E-6
6.00000	38.00000	15.00000	0.067348	14.755	-105.75E-6	-0.43195	1.1133E-6
7.00000	38.00000	15.00000	0.059550	14.755	-108.80E-6	-0.44031	1.1349E-6
8.00000	38.00000	15.00000	0.052986	14.755	-110.98E-6	-0.44636	1.1505E-6
9.00000	38.00000	15.00000	0.047674	14.755	-112.29E-6	-0.45002	1.1599E-6
10.00000	38.00000	15.00000	0.043602	14.755	-112.73E-6	-0.45125	1.1630E-6
11.00000	38.00000	15.00000	0.040732	14.755	-112.29E-6	-0.45002	1.1599E-6
12.00000	38.00000	15.00000	0.039331	14.755	-110.98E-6	-0.44636	1.1505E-6
13.00000	38.00000	15.00000	0.038374	14.755	-108.80E-6	-0.44031	1.1349E-6
14.00000	38.00000	15.00000	0.038750	14.755	-105.75E-6	-0.43195	1.1133E-6
15.00000	38.00000	15.00000	0.040065	14.755	-101.87E-6	-0.42138	1.0861E-6
16.00000	38.00000	15.00000	0.042249	14.755	-97.194E-6	-0.40879	1.0537E-6
17.00000	38.00000	15.00000	0.045231	14.755	-91.802E-6	-0.39437	1.0165E-6
18.00000	38.00000	15.00000	0.048947	14.755	-85.802E-6	-0.37838	0.0
19.00000	38.00000	15.00000	0.053341	14.755	-79.341E-6	-0.36112	0.0
20.00000	38.00000	15.00000	0.058365	14.755	-72.591E-6	-0.34293	0.0
21.00000	38.00000	15.00000	0.063979	14.755	-65.742E-6	-0.32415	0.0
22.00000	38.00000	15.00000	0.070156	14.755	-58.979E-6	-0.30514	0.0
23.00000	38.00000	15.00000	0.076879	14.755	-52.468E-6	-0.28620	0.0
24.00000	38.00000	15.00000	0.084140	14.755	-46.342E-6	-0.26763	0.0
25.00000	38.00000	15.00000	0.091935	14.755	-40.693E-6	-0.24965	0.0
26.00000	38.00000	15.00000	0.10026	14.755	-35.573E-6	-0.23243	0.0
27.00000	38.00000	15.00000	0.10912	14.755	-30.998E-6	-0.21610	0.0
28.00000	38.00000	15.00000	0.11848	14.755	-26.956E-6	-0.20074	0.0
29.00000	38.00000	15.00000	0.12830	14.755	-23.418E-6	-0.18636	0.0
30.00000	38.00000	15.00000	0.13852	14.755	-20.340E-6	-0.17298	0.0
31.00000	38.00000	15.00000	0.14902	14.755	-17.675E-6	-0.16057	0.0
32.00000	38.00000	15.00000	0.15967	14.755	-15.376E-6	-0.14909	0.0
33.00000	38.00000	15.00000	0.17031	14.755	-13.395E-6	-0.13851	0.0
34.00000	38.00000	15.00000	0.18073	14.755	-11.690E-6	-0.12875	0.0
35.00000	38.00000	15.00000	0.19073	14.755	-10.222E-6	-0.11977	0.0
36.00000	38.00000	15.00000	0.20011	14.755	-8.9573E-6	-0.11150	0.0
37.00000	38.00000	15.00000	0.20869	14.755	-7.8667E-6	-0.10389	0.0
38.00000	38.00000	15.00000	0.21630	14.755	-6.9248E-6	-0.09686	0.0
39.00000	38.00000	15.00000	0.22283	14.755	-6.1097E-6	-0.090454	0.0
40.00000	38.00000	15.00000	0.22820	14.755	-5.4030E-6	-0.084522	0.0
41.00000	38.00000	15.00000	0.23238	14.755	-4.7890E-6	-0.079056	0.0
42.00000	38.00000	15.00000	0.23536	14.755	-4.2543E-6	-0.074015	0.0
43.00000	38.00000	15.00000	0.23720	14.755	-3.7877E-6	-0.069364	0.0
44.00000	38.00000	15.00000	0.23794	14.755	-3.3796E-6	-0.065067	0.0
45.00000	38.00000	15.00000	0.23766	14.755	-3.0218E-6	-0.061096	0.0
46.00000	38.00000	15.00000	0.23647	14.755	-2.7074E-6	-0.057421	0.0
47.00000	38.00000	15.00000	0.23445	14.755	-2.4306E-6	-0.054018	0.0
48.00000	38.00000	15.00000	0.23171	14.755	-2.1863E-6	-0.050863	0.0
49.00000	38.00000	15.00000	0.22834	14.755	-1.9703E-6	-0.047936	0.0
50.00000	38.00000	15.00000	0.22445	14.755	-1.7789E-6	-0.045218	0.0
51.00000	38.00000	15.00000	0.22011	14.755	-1.6089E-6	-0.042691	0.0
52.00000	38.00000	15.00000	0.21541	14.755	-1.4577E-6	-0.040339	0.0
53.00000	38.00000	15.00000	0.21043	14.755	-1.3229E-6	-0.038193	0.0
54.00000	38.00000	15.00000	0.20523	14.755	-1.2025E-6	-0.036108	0.0
55.00000	38.00000	15.00000	0.19987	14.755	-1.0947E-6	-0.034203	0.0
-25.00000	39.00000	15.00000	0.17501	14.755	-2.8121E-6	-0.058592	0.0
-24.00000	39.00000	15.00000	0.17996	14.755	-3.1349E-6	-0.062291	0.0
-23.00000	39.00000	15.00000	0.18487	14.755	-3.5013E-6	-0.066280	0.0
-22.00000	39.00000	15.00000	0.18970	14.755	-3.9180E-6	-0.070584	0.0
-21.00000	39.00000	15.00000	0.19441	14.755	-4.3928E-6	-0.075232	0.0
-20.00000	39.00000	15.00000	0.19896	14.755	-4.9347E-6	-0.080253	0.0
-19.00000	39.00000	15.00000	0.20328	14.755	-5.5543E-6	-0.085679	0.0
-18.00000	39.00000	15.00000	0.20733	14.755	-6.2639E-6	-0.091546	0.0
-17.00000	39.00000	15.00000	0.21105	14.755	-7.0776E-6	-0.097890	0.0
-16.00000	39.00000	15.00000	0.21435	14.755	-8.0118E-6	-0.10475	0.0
-15.00000	39.00000	15.00000	0.21718	14.755	-9.0852E-6	-0.11216	0.0
-14.00000	39.00000	15.00000	0.21946	14.755	-10.319E-6	-0.12018	0.0
-13.00000	39.00000	15.00000	0.22109	14.755	-11.737E-6	-0.12882	0.0
-12.00000	39.00000	15.00000	0.22202	14.755	-13.366E-6	-0.13814	0.0
-11.00000	39.00000	15.00000	0.22215	14.755	-15.234E-6	-0.14817	0.0
-10.00000	39.00000	15.00000	0.22142	14.755	-17.370E-6	-0.15894	0.0
-9.00000	39.00000	15.00000	0.21977	14.755	-19.804E-6	-0.17046	0.0
-8.00000	39.00000	15.00000	0.21715	14.755	-22.562E-6	-0.18273	0.0
-7.00000	39.00000	15.00000	0.21354	14.755	-25.665E-6	-0.19574	0.0
-6.00000	39.00000	15.00000	0.20893	14.755	-29.127E-6	-0.20944	0.0
-5.00000	39.00000	15.00000	0.20337	14.755	-32.944E-6	-0.22377	0.0
-4.00000	39.00000	15.00000	0.19691	14.755	-37.097E-6	-0.23861	0.0
-3.00000	39.00000	15.00000	0.18965	14.755	-41.545E-6	-0.25382	0.0
-2.00000	39.00000	15.00000	0.18175	14.755	-46.222E-6	-0.26923	0.0
-1.00000	39.00000	15.00000	0.17337	14.755	-51.040E-6	-0.28461	0.0
0.00000	39.00000	15.00000	0.16470	14.755	-55.891E-6	-0.29972	0.0
1.00000	39.00000	15.00000	0.15594	14.755	-60.657E-6	-0.31432	0.0
2.00000	39.00000	15.00000	0.14732	14.755	-65.220E-6	-0.32814	0.0
3.00000	39.00000	15.00000	0.13901	14.755	-69.466E-6	-0.34094	0.0
4.00000	39.00000	15.00000	0.13121	14.755	-73.298E-6	-0.35248	0.0
5.00000	39.00000	15.00000	0.12406	14.755	-76.639E-6	-0.36257	0.0
6.00000	39.00000	15.00000	0.11768	14.755	-79.429E-6	-0.37104	0.0
7.00000	39.00000	15.00000	0.11215	14.755	-81.629E-6	-0.37776	0.0
8.00000	39.00000	15.00000	0.10752	14.755	-83.213E-6	-0.38263	0.0
9.00000	39.00000	15.00000	0.10382	14.755	-84.169E-6	-0.38557	0.0
10.00000	39.00000	15.00000	0.10103	14.755	-84.488E-6	-0.38656	0.0
11.00000	39.00000	15.00000	0.099133	14.755	-84.169E-6	-0.38557	0.0
12.00000	39.00000	15.00000	0.098100	14.755	-83.213E-6	-0.38263	0.0
13.00000	39.00000	15.00000	0.097879	14.755	-81.629E-6	-0.37776	0.0
14.00000	39.00000	15.00000	0.098417	14.755	-79.429E-6	-0.37104	0.0
15.00000	39.00000	15.00000	0.099659	14.755	-76.639E-6	-0.36257	0.0
16.00000	39.00000	15.00000	0.10155	14.755	-73.298E-6	-0.35248	0.0
17.00000	39.00000	15.00000	0.10403	14.755	-69.466E-6	-0.34094	0.0
18.00000	39.00000	15.00000	0.10706	14.			

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Calc Level Z [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
52.00000	39.00000	15.00000	0.21168	14.755	-1.3809E-6	-0.039071	0.0
53.00000	39.00000	15.00000	0.20663	14.755	-1.2556E-6	-0.036992	0.0
54.00000	39.00000	15.00000	0.20141	14.755	-1.1435E-6	-0.035050	0.0
55.00000	39.00000	15.00000	0.19608	14.755	-1.0429E-6	-0.033235	0.0
-25.00000	40.00000	15.00000	0.17173	14.755	-2.6142E-6	-0.056159	0.0
-24.00000	40.00000	15.00000	0.17662	14.755	-2.9049E-6	-0.059600	0.0
-23.00000	40.00000	15.00000	0.18148	14.755	-3.2333E-6	-0.063300	0.0
-22.00000	40.00000	15.00000	0.18629	14.755	-3.6048E-6	-0.067279	0.0
-21.00000	40.00000	15.00000	0.19101	14.755	-4.0258E-6	-0.071560	0.0
-20.00000	40.00000	15.00000	0.19560	14.755	-4.5035E-6	-0.076168	0.0
-19.00000	40.00000	15.00000	0.20002	14.755	-5.0462E-6	-0.081129	0.0
-18.00000	40.00000	15.00000	0.20422	14.755	-5.6633E-6	-0.086469	0.0
-17.00000	40.00000	15.00000	0.20815	14.755	-6.3658E-6	-0.092217	0.0
-16.00000	40.00000	15.00000	0.21175	14.755	-7.1658E-6	-0.098402	0.0
-15.00000	40.00000	15.00000	0.21497	14.755	-8.0772E-6	-0.10505	0.0
-14.00000	40.00000	15.00000	0.21774	14.755	-9.1151E-6	-0.11220	0.0
-13.00000	40.00000	15.00000	0.22000	14.755	-10.296E-6	-0.11987	0.0
-12.00000	40.00000	15.00000	0.22169	14.755	-11.639E-6	-0.12808	0.0
-11.00000	40.00000	15.00000	0.22275	14.755	-13.161E-6	-0.13687	0.0
-10.00000	40.00000	15.00000	0.22313	14.755	-14.881E-6	-0.14623	0.0
-9.00000	40.00000	15.00000	0.22278	14.755	-16.817E-6	-0.15617	0.0
-8.00000	40.00000	15.00000	0.22166	14.755	-18.983E-6	-0.16669	0.0
-7.00000	40.00000	15.00000	0.21978	14.755	-21.389E-6	-0.17775	0.0
-6.00000	40.00000	15.00000	0.21712	14.755	-24.039E-6	-0.18932	0.0
-5.00000	40.00000	15.00000	0.21371	14.755	-26.924E-6	-0.20132	0.0
-4.00000	40.00000	15.00000	0.20962	14.755	-30.026E-6	-0.21367	0.0
-3.00000	40.00000	15.00000	0.20491	14.755	-33.314E-6	-0.22624	0.0
-2.00000	40.00000	15.00000	0.19969	14.755	-36.739E-6	-0.23890	0.0
-1.00000	40.00000	15.00000	0.19409	14.755	-40.242E-6	-0.25147	0.0
0.00000	40.00000	15.00000	0.18825	14.755	-43.751E-6	-0.26377	0.0
1.00000	40.00000	15.00000	0.18231	14.755	-47.189E-6	-0.27567	0.0
2.00000	40.00000	15.00000	0.17644	14.755	-50.477E-6	-0.28680	0.0
3.00000	40.00000	15.00000	0.17077	14.755	-53.540E-6	-0.29715	0.0
4.00000	40.00000	15.00000	0.16544	14.755	-56.311E-6	-0.30647	0.0
5.00000	40.00000	15.00000	0.16055	14.755	-58.735E-6	-0.31463	0.0
6.00000	40.00000	15.00000	0.15621	14.755	-60.767E-6	-0.32141	0.0
7.00000	40.00000	15.00000	0.15246	14.755	-62.376E-6	-0.32692	0.0
8.00000	40.00000	15.00000	0.14937	14.755	-63.538E-6	-0.33086	0.0
9.00000	40.00000	15.00000	0.14694	14.755	-64.241E-6	-0.33324	0.0
10.00000	40.00000	15.00000	0.14517	14.755	-64.476E-6	-0.33404	0.0
11.00000	40.00000	15.00000	0.14406	14.755	-64.241E-6	-0.33324	0.0
12.00000	40.00000	15.00000	0.14358	14.755	-63.538E-6	-0.33086	0.0
13.00000	40.00000	15.00000	0.14370	14.755	-62.376E-6	-0.32692	0.0
14.00000	40.00000	15.00000	0.14437	14.755	-60.767E-6	-0.32148	0.0
15.00000	40.00000	15.00000	0.14555	14.755	-58.735E-6	-0.31463	0.0
16.00000	40.00000	15.00000	0.14719	14.755	-56.311E-6	-0.30649	0.0
17.00000	40.00000	15.00000	0.14927	14.755	-53.540E-6	-0.29715	0.0
18.00000	40.00000	15.00000	0.15172	14.755	-50.477E-6	-0.28680	0.0
19.00000	40.00000	15.00000	0.15453	14.755	-47.189E-6	-0.27561	0.0
20.00000	40.00000	15.00000	0.15764	14.755	-43.751E-6	-0.26377	0.0
21.00000	40.00000	15.00000	0.16105	14.755	-40.242E-6	-0.25145	0.0
22.00000	40.00000	15.00000	0.16471	14.755	-36.739E-6	-0.23890	0.0
23.00000	40.00000	15.00000	0.16862	14.755	-33.314E-6	-0.22624	0.0
24.00000	40.00000	15.00000	0.17276	14.755	-30.026E-6	-0.21367	0.0
25.00000	40.00000	15.00000	0.17712	14.755	-26.924E-6	-0.20132	0.0
26.00000	40.00000	15.00000	0.18168	14.755	-24.039E-6	-0.18932	0.0
27.00000	40.00000	15.00000	0.18643	14.755	-21.389E-6	-0.17775	0.0
28.00000	40.00000	15.00000	0.19134	14.755	-18.983E-6	-0.16669	0.0
29.00000	40.00000	15.00000	0.19638	14.755	-16.817E-6	-0.15617	0.0
30.00000	40.00000	15.00000	0.20151	14.755	-14.881E-6	-0.14623	0.0
31.00000	40.00000	15.00000	0.20665	14.755	-13.161E-6	-0.13687	0.0
32.00000	40.00000	15.00000	0.21174	14.755	-11.639E-6	-0.12808	0.0
33.00000	40.00000	15.00000	0.21668	14.755	-10.296E-6	-0.11987	0.0
34.00000	40.00000	15.00000	0.22137	14.755	-9.1151E-6	-0.11220	0.0
35.00000	40.00000	15.00000	0.22572	14.755	-8.0772E-6	-0.10505	0.0
36.00000	40.00000	15.00000	0.22963	14.755	-7.1658E-6	-0.098402	0.0
37.00000	40.00000	15.00000	0.23300	14.755	-6.3658E-6	-0.092217	0.0
38.00000	40.00000	15.00000	0.23576	14.755	-5.6633E-6	-0.086469	0.0
39.00000	40.00000	15.00000	0.23784	14.755	-5.0462E-6	-0.081129	0.0
40.00000	40.00000	15.00000	0.23922	14.755	-4.5035E-6	-0.076168	0.0
41.00000	40.00000	15.00000	0.23986	14.755	-4.0258E-6	-0.071560	0.0
42.00000	40.00000	15.00000	0.23977	14.755	-3.6048E-6	-0.067279	0.0
43.00000	40.00000	15.00000	0.23897	14.755	-3.2333E-6	-0.063300	0.0
44.00000	40.00000	15.00000	0.23749	14.755	-2.9049E-6	-0.059600	0.0
45.00000	40.00000	15.00000	0.23538	14.755	-2.6142E-6	-0.056159	0.0
46.00000	40.00000	15.00000	0.23269	14.755	-2.3565E-6	-0.052959	0.0
47.00000	40.00000	15.00000	0.22948	14.755	-2.1276E-6	-0.049973	0.0
48.00000	40.00000	15.00000	0.22581	14.755	-1.9240E-6	-0.047194	0.0
49.00000	40.00000	15.00000	0.22175	14.755	-1.7426E-6	-0.044603	0.0
50.00000	40.00000	15.00000	0.21734	14.755	-1.5808E-6	-0.042185	0.0
51.00000	40.00000	15.00000	0.21266	14.755	-1.4361E-6	-0.039922	0.0
52.00000	40.00000	15.00000	0.20775	14.755	-1.3066E-6	-0.037819	0.0
53.00000	40.00000	15.00000	0.20267	14.755	-1.1905E-6	-0.035847	0.0
54.00000	40.00000	15.00000	0.19747	14.755	-1.0863E-6	-0.034002	0.0
55.00000	40.00000	15.00000	0.19217	14.755	0.0	-0.032274	0.0
-25.00000	41.00000	15.00000	0.16840	14.755	-2.4279E-6	-0.053800	0.0
-24.00000	41.00000	15.00000	0.17320	14.755	-2.6894E-6	-0.056999	0.0
-23.00000	41.00000	15.00000	0.17800	14.755	-2.9833E-6	-0.060427	0.0
-22.00000	41.00000	15.00000	0.18277	14.755	-3.3142E-6	-0.064103	0.0
-21.00000	41.00000	15.00000	0.18747	14.755	-3.6871E-6	-0.068044	0.0
-20.00000	41.00000	15.00000	0.19208	14.755	-4.1077E-6	-0.072208	0.0
-19.00000	41.00000	15.00000	0.19655	14.755	-4.5826E-6	-0.076802	0.0
-18.00000	41.00000	15.00000	0.20086	14.755	-5.1191E-6	-0.081661	0.0
-17.00000	41.00000	15.00000	0.20494	14.755	-5.7254E-6	-0.086868	0.0
-16.00000	41.00000	15.00000	0.20877	14.755	-6.4106E-6	-0.092445	0.0
-15.00000	41.00000	15.00000	0.21229	14.755	-7.1849E-6	-0.098419	0.0
-14.00000	41.00000	15.00000	0.21546	14.755	-8.0591E-6	-0.10479	0.0
-13.00000	41.00000	15.00000	0.21822	14.755	-9.0448E-6	-0.11160	0.0
-12.00000	41.00000	15.00000	0.22052	14.755	-10.154E-6	-0.11885	0.0
-11.00000	41.00000	15.00000	0.22232	14.755	-11.399E-6	-0.12655	0.0
-10.00000	41.00000	15.00000	0.22358	14.755	-12.791E-6	-0.13478	0.0
-9.00000	41.00000	15.00000	0.22426	14.755	-14.340E-6	-0.14333	0.0
-8.00000	41.00000	15.00000	0.22434	14.755	-16.054E-6	-0.15237	0.0
-7.00000	41.00000	15.00000	0.22382	14.755	-17.937E-6	-0.16183	0.0
-6.00000	41.00000	15.00000	0.22269	14.755	-19.986E-6	-0.17164	0.0
-5.00000	41.00000	15.00000	0.22098	14.755	-22.194E-6	-0.18178	0.0
-4.00000	41.00000	15.00000	0.21873	14.755	-24.544E-6	-0.19211	0.0
-3.00000	41.00000	15.00000	0.21599	14.755	-27.012E-6	-0.20258	0.0
-2.00000	41.00000	15.00000	0.21285	14.755	-29.563E-6	-0.21307	0.0
-1.00000	41.00000	15.00000	0.20940	14.755	-32.155E-6	-0.22343	0.0
0.00000	41.00000	15.00000	0.20574	14.755	-34.740E-6	-0.23354	0.0
1.00000	41.00000	15.00000	0.20198	14.755	-37.265E-6	-0.24324	0.0
2.00000	41.00000	15.00000	0.19822	14.755	-39.676E-6	-0.25238	0.0
3.00000	41.00000	15.00000	0.19459	14.755	-41.922E-6	-0.26082	0.0
4.00000	41.00000	15.00000	0.19117	14.755	-43.958E-6	-0.26843	0.0
5.00000	41.00000	15.00000	0.18804	14.755	-45.741E-6	-0.27508	0.0
6.00000	41.00000	15.00000	0.18529	14.755	-47.241E-6	-0.28066	0.0
7.00000	41.00000	15.00000	0.18295	14.755	-48.430E-6	-0.28509	

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Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [m]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
20.00000	41.00000	15.00000	0.19023	14.755	-34.740E-6	-0.23354	0.0
21.00000	41.00000	15.00000	0.19282	14.755	-32.155E-6	-0.22343	0.0
22.00000	41.00000	15.00000	0.19556	14.755	-29.563E-6	-0.21307	0.0
23.00000	41.00000	15.00000	0.19844	14.755	-27.012E-6	-0.20258	0.0
24.00000	41.00000	15.00000	0.20144	14.755	-24.544E-6	-0.19211	0.0
25.00000	41.00000	15.00000	0.20455	14.755	-22.194E-6	-0.18176	0.0
26.00000	41.00000	15.00000	0.20776	14.755	-19.986E-6	-0.17164	0.0
27.00000	41.00000	15.00000	0.21105	14.755	-17.937E-6	-0.16183	0.0
28.00000	41.00000	15.00000	0.21439	14.755	-16.054E-6	-0.15237	0.0
29.00000	41.00000	15.00000	0.21777	14.755	-14.340E-6	-0.14333	0.0
30.00000	41.00000	15.00000	0.22113	14.755	-12.791E-6	-0.13471	0.0
31.00000	41.00000	15.00000	0.22444	14.755	-11.399E-6	-0.12655	0.0
32.00000	41.00000	15.00000	0.22764	14.755	-10.154E-6	-0.11885	0.0
33.00000	41.00000	15.00000	0.23066	14.755	-9.0448E-6	-0.11160	0.0
34.00000	41.00000	15.00000	0.23345	14.755	-8.0591E-6	-0.10479	0.0
35.00000	41.00000	15.00000	0.23591	14.755	-7.1849E-6	-0.09841	0.0
36.00000	41.00000	15.00000	0.23799	14.755	-6.4106E-6	-0.09244	0.0
37.00000	41.00000	15.00000	0.23962	14.755	-5.7254E-6	-0.08686	0.0
38.00000	41.00000	15.00000	0.24076	14.755	-5.1191E-6	-0.08166	0.0
39.00000	41.00000	15.00000	0.24135	14.755	-4.5826E-6	-0.07680	0.0
40.00000	41.00000	15.00000	0.24137	14.755	-4.1077E-6	-0.07220	0.0
41.00000	41.00000	15.00000	0.24081	14.755	-3.6871E-6	-0.06804	0.0
42.00000	41.00000	15.00000	0.23967	14.755	-3.3142E-6	-0.06403	0.0
43.00000	41.00000	15.00000	0.23797	14.755	-2.9833E-6	-0.06042	0.0
44.00000	41.00000	15.00000	0.23574	14.755	-2.6894E-6	-0.05699	0.0
45.00000	41.00000	15.00000	0.23300	14.755	-2.4279E-6	-0.05380	0.0
46.00000	41.00000	15.00000	0.22980	14.755	-2.1951E-6	-0.05081	0.0
47.00000	41.00000	15.00000	0.22619	14.755	-1.9875E-6	-0.04802	0.0
48.00000	41.00000	15.00000	0.22222	14.755	-1.8021E-6	-0.04542	0.0
49.00000	41.00000	15.00000	0.21793	14.755	-1.6363E-6	-0.04298	0.0
50.00000	41.00000	15.00000	0.21337	14.755	-1.4878E-6	-0.04071	0.0
51.00000	41.00000	15.00000	0.20860	14.755	-1.3547E-6	-0.03851	0.0
52.00000	41.00000	15.00000	0.20365	14.755	-1.2351E-6	-0.03658	0.0
53.00000	41.00000	15.00000	0.19858	14.755	-1.1276E-6	-0.03471	0.0
54.00000	41.00000	15.00000	0.19341	14.755	-1.0308E-6	-0.03296	0.0
55.00000	41.00000	15.00000	0.18818	14.755	0.0	-0.03132	0.0
-25.00000	42.00000	15.00000	0.16500	14.755	-2.2532E-6	-0.05151	0.0
-24.00000	42.00000	15.00000	0.16972	14.755	-2.4881E-6	-0.05448	0.0
-23.00000	42.00000	15.00000	0.17445	14.755	-2.7509E-6	-0.05766	0.0
-22.00000	42.00000	15.00000	0.17915	14.755	-3.0453E-6	-0.06105	0.0
-21.00000	42.00000	15.00000	0.18382	14.755	-3.3753E-6	-0.06468	0.0
-20.00000	42.00000	15.00000	0.18842	14.755	-3.7455E-6	-0.06855	0.0
-19.00000	42.00000	15.00000	0.19291	14.755	-4.1608E-6	-0.07269	0.0
-18.00000	42.00000	15.00000	0.19728	14.755	-4.6271E-6	-0.07711	0.0
-17.00000	42.00000	15.00000	0.20148	14.755	-5.1504E-6	-0.08183	0.0
-16.00000	42.00000	15.00000	0.20547	14.755	-5.7377E-6	-0.08686	0.0
-15.00000	42.00000	15.00000	0.20922	14.755	-6.3961E-6	-0.09222	0.0
-14.00000	42.00000	15.00000	0.21268	14.755	-7.1335E-6	-0.09792	0.0
-13.00000	42.00000	15.00000	0.21583	14.755	-7.9578E-6	-0.10397	0.0
-12.00000	42.00000	15.00000	0.21861	14.755	-8.8772E-6	-0.11038	0.0
-11.00000	42.00000	15.00000	0.22099	14.755	-9.8993E-6	-0.11715	0.0
-10.00000	42.00000	15.00000	0.22294	14.755	-11.031E-6	-0.12428	0.0
-9.00000	42.00000	15.00000	0.22443	14.755	-12.278E-6	-0.13176	0.0
-8.00000	42.00000	15.00000	0.22546	14.755	-13.644E-6	-0.13957	0.0
-7.00000	42.00000	15.00000	0.22600	14.755	-15.129E-6	-0.14768	0.0
-6.00000	42.00000	15.00000	0.22606	14.755	-16.730E-6	-0.15606	0.0
-5.00000	42.00000	15.00000	0.22567	14.755	-18.439E-6	-0.16464	0.0
-4.00000	42.00000	15.00000	0.22485	14.755	-20.242E-6	-0.17336	0.0
-3.00000	42.00000	15.00000	0.22364	14.755	-22.120E-6	-0.18215	0.0
-2.00000	42.00000	15.00000	0.22210	14.755	-24.048E-6	-0.19090	0.0
-1.00000	42.00000	15.00000	0.22030	14.755	-25.996E-6	-0.19952	0.0
0.00000	42.00000	15.00000	0.21831	14.755	-27.930E-6	-0.20790	0.0
1.00000	42.00000	15.00000	0.21622	14.755	-29.814E-6	-0.21591	0.0
2.00000	42.00000	15.00000	0.21410	14.755	-31.609E-6	-0.22344	0.0
3.00000	42.00000	15.00000	0.21203	14.755	-33.281E-6	-0.23039	0.0
4.00000	42.00000	15.00000	0.21009	14.755	-34.797E-6	-0.23664	0.0
5.00000	42.00000	15.00000	0.20833	14.755	-36.126E-6	-0.24210	0.0
6.00000	42.00000	15.00000	0.20681	14.755	-37.246E-6	-0.24668	0.0
7.00000	42.00000	15.00000	0.20556	14.755	-38.135E-6	-0.25032	0.0
8.00000	42.00000	15.00000	0.20461	14.755	-38.781E-6	-0.25296	0.0
9.00000	42.00000	15.00000	0.20398	14.755	-39.172E-6	-0.25456	0.0
10.00000	42.00000	15.00000	0.20367	14.755	-39.303E-6	-0.25509	0.0
11.00000	42.00000	15.00000	0.20367	14.755	-39.172E-6	-0.25456	0.0
12.00000	42.00000	15.00000	0.20397	14.755	-38.781E-6	-0.25296	0.0
13.00000	42.00000	15.00000	0.20455	14.755	-38.135E-6	-0.25032	0.0
14.00000	42.00000	15.00000	0.20539	14.755	-37.246E-6	-0.24668	0.0
15.00000	42.00000	15.00000	0.20647	14.755	-36.126E-6	-0.24210	0.0
16.00000	42.00000	15.00000	0.20774	14.755	-34.797E-6	-0.23664	0.0
17.00000	42.00000	15.00000	0.20920	14.755	-33.281E-6	-0.23039	0.0
18.00000	42.00000	15.00000	0.21081	14.755	-31.609E-6	-0.22344	0.0
19.00000	42.00000	15.00000	0.21254	14.755	-29.814E-6	-0.21591	0.0
20.00000	42.00000	15.00000	0.21438	14.755	-27.930E-6	-0.20790	0.0
21.00000	42.00000	15.00000	0.21631	14.755	-25.996E-6	-0.19952	0.0
22.00000	42.00000	15.00000	0.21830	14.755	-24.048E-6	-0.19090	0.0
23.00000	42.00000	15.00000	0.22034	14.755	-22.120E-6	-0.18215	0.0
24.00000	42.00000	15.00000	0.22243	14.755	-20.242E-6	-0.17336	0.0
25.00000	42.00000	15.00000	0.22454	14.755	-18.439E-6	-0.16464	0.0
26.00000	42.00000	15.00000	0.22666	14.755	-16.730E-6	-0.15606	0.0
27.00000	42.00000	15.00000	0.22879	14.755	-15.129E-6	-0.14768	0.0
28.00000	42.00000	15.00000	0.23089	14.755	-13.644E-6	-0.13957	0.0
29.00000	42.00000	15.00000	0.23295	14.755	-12.278E-6	-0.13176	0.0
30.00000	42.00000	15.00000	0.23495	14.755	-11.031E-6	-0.12428	0.0
31.00000	42.00000	15.00000	0.23683	14.755	-9.8993E-6	-0.11715	0.0
32.00000	42.00000	15.00000	0.23857	14.755	-8.8772E-6	-0.11038	0.0
33.00000	42.00000	15.00000	0.24012	14.755	-7.9578E-6	-0.10397	0.0
34.00000	42.00000	15.00000	0.24143	14.755	-7.1335E-6	-0.09792	0.0
35.00000	42.00000	15.00000	0.24245	14.755	-6.3961E-6	-0.09222	0.0
36.00000	42.00000	15.00000	0.24314	14.755	-5.7377E-6	-0.08686	0.0
37.00000	42.00000	15.00000	0.24344	14.755	-5.1504E-6	-0.08183	0.0
38.00000	42.00000	15.00000	0.24333	14.755	-4.6271E-6	-0.07711	0.0
39.00000	42.00000	15.00000	0.24278	14.755	-4.1608E-6	-0.07269	0.0
40.00000	42.00000	15.00000	0.24177	14.755	-3.7455E-6	-0.06855	0.0
41.00000	42.00000	15.00000	0.24029	14.755	-3.3753E-6	-0.06468	0.0
42.00000	42.00000	15.00000	0.23835	14.755	-3.0453E-6	-0.06105	0.0
43.00000	42.00000	15.00000	0.23596	14.755	-2.7509E-6	-0.05766	0.0
44.00000	42.00000	15.00000	0.23315	14.755	-2.4881E-6	-0.05448	0.0
45.00000	42.00000	15.00000	0.22994	14.755	-2.2532E-6	-0.05151	0.0
46.00000	42.00000	15.00000	0.22636	14.755	-2.0431E-6	-0.04873	0.0
47.00000	42.0						

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Name	Location	Displacement	Stresses				
X	Y	Z[Level]	Z	Calc Level	Vert Stress	Sum Princ	Vert Strain
[m]	[m]	[mOD]	[m]	[mOD]	[kN/m²]	[kN/m²]	[-]
-12.00000	43.00000	15.00000	0.21605	14.755	-7.7778E-6	-0.10260	0.0
-11.00000	43.00000	15.00000	0.21888	14.755	-8.6203E-6	-0.10857	0.0
-10.00000	43.00000	15.00000	0.22137	14.755	-9.5450E-6	-0.11481	0.0
-9.00000	43.00000	15.00000	0.22349	14.755	-10.555E-6	-0.12133	0.0
-8.00000	43.00000	15.00000	0.22524	14.755	-11.651E-6	-0.12810	0.0
-7.00000	43.00000	15.00000	0.22661	14.755	-12.832E-6	-0.13509	0.0
-6.00000	43.00000	15.00000	0.22759	14.755	-14.094E-6	-0.14227	0.0
-5.00000	43.00000	15.00000	0.22821	14.755	-15.430E-6	-0.14959	0.0
-4.00000	43.00000	15.00000	0.22849	14.755	-16.829E-6	-0.15699	0.0
-3.00000	43.00000	15.00000	0.22845	14.755	-18.276E-6	-0.16440	0.0
-2.00000	43.00000	15.00000	0.22814	14.755	-19.752E-6	-0.17176	0.0
-1.00000	43.00000	15.00000	0.22761	14.755	-21.236E-6	-0.17898	0.0
0.00000	43.00000	15.00000	0.22690	14.755	-22.703E-6	-0.18597	0.0
1.00000	43.00000	15.00000	0.22609	14.755	-24.127E-6	-0.19264	0.0
2.00000	43.00000	15.00000	0.22522	14.755	-25.483E-6	-0.19890	0.0
3.00000	43.00000	15.00000	0.22436	14.755	-26.744E-6	-0.20466	0.0
4.00000	43.00000	15.00000	0.22355	14.755	-27.886E-6	-0.20983	0.0
5.00000	43.00000	15.00000	0.22284	14.755	-28.889E-6	-0.21435	0.0
6.00000	43.00000	15.00000	0.22227	14.755	-29.734E-6	-0.21814	0.0
7.00000	43.00000	15.00000	0.22186	14.755	-30.406E-6	-0.22115	0.0
8.00000	43.00000	15.00000	0.22164	14.755	-30.894E-6	-0.22333	0.0
9.00000	43.00000	15.00000	0.22162	14.755	-31.190E-6	-0.22465	0.0
10.00000	43.00000	15.00000	0.22181	14.755	-31.289E-6	-0.22509	0.0
11.00000	43.00000	15.00000	0.22218	14.755	-31.190E-6	-0.22465	0.0
12.00000	43.00000	15.00000	0.22275	14.755	-30.894E-6	-0.22333	0.0
13.00000	43.00000	15.00000	0.22348	14.755	-30.406E-6	-0.22115	0.0
14.00000	43.00000	15.00000	0.22437	14.755	-29.734E-6	-0.21814	0.0
15.00000	43.00000	15.00000	0.22539	14.755	-28.889E-6	-0.21435	0.0
16.00000	43.00000	15.00000	0.22653	14.755	-27.886E-6	-0.20983	0.0
17.00000	43.00000	15.00000	0.22775	14.755	-26.744E-6	-0.20466	0.0
18.00000	43.00000	15.00000	0.22905	14.755	-25.483E-6	-0.19890	0.0
19.00000	43.00000	15.00000	0.23039	14.755	-24.127E-6	-0.19264	0.0
20.00000	43.00000	15.00000	0.23176	14.755	-22.703E-6	-0.18597	0.0
21.00000	43.00000	15.00000	0.23315	14.755	-21.236E-6	-0.17898	0.0
22.00000	43.00000	15.00000	0.23454	14.755	-19.752E-6	-0.17176	0.0
23.00000	43.00000	15.00000	0.23591	14.755	-18.276E-6	-0.16440	0.0
24.00000	43.00000	15.00000	0.23726	14.755	-16.829E-6	-0.15699	0.0
25.00000	43.00000	15.00000	0.23857	14.755	-15.430E-6	-0.14959	0.0
26.00000	43.00000	15.00000	0.23983	14.755	-14.094E-6	-0.14227	0.0
27.00000	43.00000	15.00000	0.24104	14.755	-12.832E-6	-0.13509	0.0
28.00000	43.00000	15.00000	0.24217	14.755	-11.651E-6	-0.12810	0.0
29.00000	43.00000	15.00000	0.24320	14.755	-10.555E-6	-0.12133	0.0
30.00000	43.00000	15.00000	0.24413	14.755	-9.5450E-6	-0.11481	0.0
31.00000	43.00000	15.00000	0.24491	14.755	-8.6203E-6	-0.10857	0.0
32.00000	43.00000	15.00000	0.24553	14.755	-7.7778E-6	-0.10260	0.0
33.00000	43.00000	15.00000	0.24595	14.755	-7.0135E-6	-0.09693	0.0
34.00000	43.00000	15.00000	0.24614	14.755	-6.3224E-6	-0.09154	0.0
35.00000	43.00000	15.00000	0.24606	14.755	-5.6993E-6	-0.08645	0.0
36.00000	43.00000	15.00000	0.24568	14.755	-5.1387E-6	-0.08164	0.0
37.00000	43.00000	15.00000	0.24498	14.755	-4.6351E-6	-0.07710	0.0
38.00000	43.00000	15.00000	0.24393	14.755	-4.1831E-6	-0.07280	0.0
39.00000	43.00000	15.00000	0.24251	14.755	-3.7778E-6	-0.06809	0.0
40.00000	43.00000	15.00000	0.24072	14.755	-3.4145E-6	-0.06502	0.0
41.00000	43.00000	15.00000	0.23855	14.755	-3.0889E-6	-0.06147	0.0
42.00000	43.00000	15.00000	0.23601	14.755	-2.7971E-6	-0.05814	0.0
43.00000	43.00000	15.00000	0.23311	14.755	-2.5353E-6	-0.05503	0.0
44.00000	43.00000	15.00000	0.22986	14.755	-2.3005E-6	-0.05207	0.0
45.00000	43.00000	15.00000	0.22630	14.755	-2.0897E-6	-0.04931	0.0
46.00000	43.00000	15.00000	0.22245	14.755	-1.9004E-6	-0.04672	0.0
47.00000	43.00000	15.00000	0.21834	14.755	-1.7301E-6	-0.04429	0.0
48.00000	43.00000	15.00000	0.21401	14.755	-1.5769E-6	-0.04201	0.0
49.00000	43.00000	15.00000	0.20948	14.755	-1.4389E-6	-0.03987	0.0
50.00000	43.00000	15.00000	0.20479	14.755	-1.3145E-6	-0.03785	0.0
51.00000	43.00000	15.00000	0.19997	14.755	-1.2022E-6	-0.03596	0.0
52.00000	43.00000	15.00000	0.19505	14.755	-1.1007E-6	-0.03418	0.0
53.00000	43.00000	15.00000	0.19007	14.755	-1.0089E-6	-0.03251	0.0
54.00000	43.00000	15.00000	0.18504	14.755	0.0	-0.03094	0.0
55.00000	43.00000	15.00000	0.18000	14.755	0.0	-0.02941	0.0
-25.00000	44.00000	15.00000	0.15809	14.755	-1.9371E-6	-0.04719	0.0
-24.00000	44.00000	15.00000	0.16261	14.755	-2.1262E-6	-0.04975	0.0
-23.00000	44.00000	15.00000	0.16715	14.755	-2.3358E-6	-0.05247	0.0
-22.00000	44.00000	15.00000	0.17169	14.755	-2.5684E-6	-0.05536	0.0
-21.00000	44.00000	15.00000	0.17623	14.755	-2.8264E-6	-0.05846	0.0
-20.00000	44.00000	15.00000	0.18074	14.755	-3.1128E-6	-0.06180	0.0
-19.00000	44.00000	15.00000	0.18520	14.755	-3.4306E-6	-0.06513	0.0
-18.00000	44.00000	15.00000	0.18959	14.755	-3.7810E-6	-0.06879	0.0
-17.00000	44.00000	15.00000	0.19388	14.755	-4.1736E-6	-0.07265	0.0
-16.00000	44.00000	15.00000	0.19805	14.755	-4.6060E-6	-0.07671	0.0
-15.00000	44.00000	15.00000	0.20207	14.755	-5.0841E-6	-0.08108	0.0
-14.00000	44.00000	15.00000	0.20591	14.755	-5.6116E-6	-0.08564	0.0
-13.00000	44.00000	15.00000	0.20955	14.755	-6.1924E-6	-0.09044	0.0
-12.00000	44.00000	15.00000	0.21296	14.755	-6.8299E-6	-0.09547	0.0
-11.00000	44.00000	15.00000	0.21612	14.755	-7.5270E-6	-0.10074	0.0
-10.00000	44.00000	15.00000	0.21900	14.755	-8.2861E-6	-0.10622	0.0
-9.00000	44.00000	15.00000	0.22160	14.755	-9.1084E-6	-0.11192	0.0
-8.00000	44.00000	15.00000	0.22390	14.755	-9.9936E-6	-0.11780	0.0
-7.00000	44.00000	15.00000	0.22590	14.755	-10.940E-6	-0.12385	0.0
-6.00000	44.00000	15.00000	0.22759	14.755	-11.943E-6	-0.13003	0.0
-5.00000	44.00000	15.00000	0.22898	14.755	-12.998E-6	-0.13630	0.0
-4.00000	44.00000	15.00000	0.23009	14.755	-14.094E-6	-0.14261	0.0
-3.00000	44.00000	15.00000	0.23095	14.755	-15.221E-6	-0.14891	0.0
-2.00000	44.00000	15.00000	0.23157	14.755	-16.364E-6	-0.15514	0.0
-1.00000	44.00000	15.00000	0.23200	14.755	-17.508E-6	-0.16122	0.0
0.00000	44.00000	15.00000	0.23227	14.755	-18.635E-6	-0.16710	0.0
1.00000	44.00000	15.00000	0.23243	14.755	-19.725E-6	-0.17269	0.0
2.00000	44.00000	15.00000	0.23251	14.755	-20.761E-6	-0.17792	0.0
3.00000	44.00000	15.00000	0.23256	14.755	-21.723E-6	-0.18273	0.0
4.00000	44.00000	15.00000	0.23262	14.755	-22.595E-6	-0.18704	0.0
5.00000	44.00000	15.00000	0.23271				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
37.00000	44.00000	15.00000	0.24468	14.755	-4.1736E-6	-0.072665	0.0
38.00000	44.00000	15.00000	0.24292	14.755	-3.7830E-6	-0.068791	0.0
39.00000	44.00000	15.00000	0.24086	14.755	-3.4306E-6	-0.065132	0.0
40.00000	44.00000	15.00000	0.23849	14.755	-3.1128E-6	-0.061680	0.0
41.00000	44.00000	15.00000	0.23581	14.755	-2.8264E-6	-0.058426	0.0
42.00000	44.00000	15.00000	0.23282	14.755	-2.5684E-6	-0.055360	0.0
43.00000	44.00000	15.00000	0.22955	14.755	-2.3358E-6	-0.052472	0.0
44.00000	44.00000	15.00000	0.22600	14.755	-2.1262E-6	-0.049754	0.0
45.00000	44.00000	15.00000	0.22219	14.755	-1.9371E-6	-0.047195	0.0
46.00000	44.00000	15.00000	0.21816	14.755	-1.7666E-6	-0.044786	0.0
47.00000	44.00000	15.00000	0.21392	14.755	-1.6126E-6	-0.042520	0.0
48.00000	44.00000	15.00000	0.20950	14.755	-1.4736E-6	-0.040386	0.0
49.00000	44.00000	15.00000	0.20493	14.755	-1.3479E-6	-0.038378	0.0
50.00000	44.00000	15.00000	0.20024	14.755	-1.2342E-6	-0.036487	0.0
51.00000	44.00000	15.00000	0.19545	14.755	-1.1312E-6	-0.034706	0.0
52.00000	44.00000	15.00000	0.19060	14.755	-1.0379E-6	-0.033028	0.0
53.00000	44.00000	15.00000	0.18569	14.755	0.0	-0.031448	0.0
54.00000	44.00000	15.00000	0.18076	14.755	0.0	-0.029958	0.0
55.00000	44.00000	15.00000	0.17583	14.755	0.0	-0.028552	0.0
-25.00000	45.00000	15.00000	0.23230	14.755	-1.7950E-6	-0.045155	0.0
-24.00000	45.00000	15.00000	0.15900	14.755	-1.9644E-6	-0.047528	0.0
-23.00000	45.00000	15.00000	0.16343	14.755	-2.1515E-6	-0.050042	0.0
-22.00000	45.00000	15.00000	0.16788	14.755	-2.3581E-6	-0.052705	0.0
-21.00000	45.00000	15.00000	0.17233	14.755	-2.5862E-6	-0.055524	0.0
-20.00000	45.00000	15.00000	0.17677	14.755	-2.8382E-6	-0.058506	0.0
-19.00000	45.00000	15.00000	0.18118	14.755	-3.1162E-6	-0.061659	0.0
-18.00000	45.00000	15.00000	0.18554	14.755	-3.4228E-6	-0.064989	0.0
-17.00000	45.00000	15.00000	0.18982	14.755	-3.7606E-6	-0.068501	0.0
-16.00000	45.00000	15.00000	0.19401	14.755	-4.1324E-6	-0.072202	0.0
-15.00000	45.00000	15.00000	0.19809	14.755	-4.5407E-6	-0.076094	0.0
-14.00000	45.00000	15.00000	0.20202	14.755	-4.9884E-6	-0.080179	0.0
-13.00000	45.00000	15.00000	0.20580	14.755	-5.4778E-6	-0.084458	0.0
-12.00000	45.00000	15.00000	0.20940	14.755	-6.0112E-6	-0.088928	0.0
-11.00000	45.00000	15.00000	0.21280	14.755	-6.5904E-6	-0.093582	0.0
-10.00000	45.00000	15.00000	0.21598	14.755	-7.2164E-6	-0.098411	0.0
-9.00000	45.00000	15.00000	0.21893	14.755	-7.8895E-6	-0.103403	0.0
-8.00000	45.00000	15.00000	0.22164	14.755	-8.6088E-6	-0.10853	0.0
-7.00000	45.00000	15.00000	0.22410	14.755	-9.3723E-6	-0.11379	0.0
-6.00000	45.00000	15.00000	0.22632	14.755	-10.176E-6	-0.11913	0.0
-5.00000	45.00000	15.00000	0.22829	14.755	-11.015E-6	-0.12453	0.0
-4.00000	45.00000	15.00000	0.23003	14.755	-11.882E-6	-0.12994	0.0
-3.00000	45.00000	15.00000	0.23155	14.755	-12.769E-6	-0.13532	0.0
-2.00000	45.00000	15.00000	0.23288	14.755	-13.664E-6	-0.14061	0.0
-1.00000	45.00000	15.00000	0.23403	14.755	-14.555E-6	-0.14577	0.0
0.00000	45.00000	15.00000	0.23504	14.755	-15.430E-6	-0.15074	0.0
1.00000	45.00000	15.00000	0.23592	14.755	-16.274E-6	-0.15546	0.0
2.00000	45.00000	15.00000	0.23672	14.755	-17.074E-6	-0.15986	0.0
3.00000	45.00000	15.00000	0.23746	14.755	-17.817E-6	-0.16390	0.0
4.00000	45.00000	15.00000	0.23817	14.755	-18.488E-6	-0.16752	0.0
5.00000	45.00000	15.00000	0.23887	14.755	-19.077E-6	-0.17067	0.0
6.00000	45.00000	15.00000	0.23957	14.755	-19.573E-6	-0.17332	0.0
7.00000	45.00000	15.00000	0.24030	14.755	-19.968E-6	-0.17541	0.0
8.00000	45.00000	15.00000	0.24107	14.755	-20.255E-6	-0.17692	0.0
9.00000	45.00000	15.00000	0.24187	14.755	-20.429E-6	-0.17784	0.0
10.00000	45.00000	15.00000	0.24270	14.755	-20.487E-6	-0.17815	0.0
11.00000	45.00000	15.00000	0.24358	14.755	-20.429E-6	-0.17784	0.0
12.00000	45.00000	15.00000	0.24448	14.755	-20.255E-6	-0.17692	0.0
13.00000	45.00000	15.00000	0.24541	14.755	-19.968E-6	-0.17541	0.0
14.00000	45.00000	15.00000	0.24634	14.755	-19.573E-6	-0.17332	0.0
15.00000	45.00000	15.00000	0.24726	14.755	-19.077E-6	-0.17067	0.0
16.00000	45.00000	15.00000	0.24817	14.755	-18.488E-6	-0.16752	0.0
17.00000	45.00000	15.00000	0.24904	14.755	-17.817E-6	-0.16390	0.0
18.00000	45.00000	15.00000	0.24986	14.755	-17.074E-6	-0.15986	0.0
19.00000	45.00000	15.00000	0.25062	14.755	-16.274E-6	-0.15546	0.0
20.00000	45.00000	15.00000	0.25131	14.755	-15.430E-6	-0.15074	0.0
21.00000	45.00000	15.00000	0.25192	14.755	-14.555E-6	-0.14577	0.0
22.00000	45.00000	15.00000	0.25243	14.755	-13.664E-6	-0.14061	0.0
23.00000	45.00000	15.00000	0.25284	14.755	-12.769E-6	-0.13532	0.0
24.00000	45.00000	15.00000	0.25314	14.755	-11.882E-6	-0.12994	0.0
25.00000	45.00000	15.00000	0.25332	14.755	-11.015E-6	-0.12453	0.0
26.00000	45.00000	15.00000	0.25338	14.755	-10.176E-6	-0.11913	0.0
27.00000	45.00000	15.00000	0.25330	14.755	-9.3723E-6	-0.11379	0.0
28.00000	45.00000	15.00000	0.25308	14.755	-8.6088E-6	-0.10853	0.0
29.00000	45.00000	15.00000	0.25271	14.755	-7.8895E-6	-0.10340	0.0
30.00000	45.00000	15.00000	0.25218	14.755	-7.2164E-6	-0.098411	0.0
31.00000	45.00000	15.00000	0.25148	14.755	-6.5904E-6	-0.093582	0.0
32.00000	45.00000	15.00000	0.25059	14.755	-6.0112E-6	-0.088928	0.0
33.00000	45.00000	15.00000	0.24950	14.755	-5.4778E-6	-0.084458	0.0
34.00000	45.00000	15.00000	0.24820	14.755	-4.9884E-6	-0.080179	0.0
35.00000	45.00000	15.00000	0.24667	14.755	-4.5407E-6	-0.076094	0.0
36.00000	45.00000	15.00000	0.24491	14.755	-4.1324E-6	-0.072202	0.0
37.00000	45.00000	15.00000	0.24289	14.755	-3.7606E-6	-0.068501	0.0
38.00000	45.00000	15.00000	0.24062	14.755	-3.4228E-6	-0.064989	0.0
39.00000	45.00000	15.00000	0.23809	14.755	-3.1162E-6	-0.061659	0.0
40.00000	45.00000	15.00000	0.23530	14.755	-2.8382E-6	-0.058506	0.0
41.00000	45.00000	15.00000	0.23225	14.755	-2.5862E-6	-0.055524	0.0
42.00000	45.00000	15.00000	0.22895	14.755	-2.3581E-6	-0.052705	0.0
43.00000	45.00000	15.00000	0.22542	14.755	-2.1515E-6	-0.050042	0.0
44.00000	45.00000	15.00000	0.22166	14.755	-1.9644E-6	-0.047528	0.0
45.00000	45.00000	15.00000	0.21770	14.755	-1.7950E-6	-0.045155	0.0
46.00000	45.00000	15.00000	0.21355	14.755	-1.6415E-6	-0.042915	0.0
47.00000	45.00000	15.00000	0.20925	14.755	-1.5024E-6	-0.040802	0.0
48.00000	45.00000	15.00000	0.20480	14.755	-1.3763E-6	-0.038808	0.0
49.00000	45.00000	15.00000	0.20023	14.755	-1.2619E-6	-0.036927	0.0
50.00000	45.00000	15.00000	0.19558	14.755	-1.1580E-6	-0.035152	0.0
51.00000	45.00000	15.00000	0.19085	14.755	-1.0637E-6	-0.033476	0.0
52.00000	45.00000	15.00000	0.18607	14.755	0.0	-0.031895	0.0
53.00000	45.00000	15.00000	0.18126	14.755	0		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location		Displacement Z [mm]	Stresses				
	X [m]	Y [m]		Z[Level] [mOD]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	5.00000	-20.00000	13.00000	0.23480	12.566	-0.015032	-1.6046	10.637E-6
	6.00000	-20.00000	13.00000	0.23581	12.566	-0.015399	-1.6314	10.812E-6
	7.00000	-20.00000	13.00000	0.23682	12.566	-0.015692	-1.6539	10.960E-6
	8.00000	-20.00000	13.00000	0.23783	12.566	-0.015905	-1.6718	11.078E-6
	9.00000	-20.00000	13.00000	0.23886	12.566	-0.016036	-1.6851	11.166E-6
	10.00000	-20.00000	13.00000	0.23989	12.566	-0.016081	-1.6935	11.222E-6
	11.00000	-20.00000	13.00000	0.24093	12.566	-0.016041	-1.6970	11.247E-6
	12.00000	-20.00000	13.00000	0.24197	12.566	-0.015915	-1.6956	11.240E-6
	13.00000	-20.00000	13.00000	0.24300	12.566	-0.015707	-1.6894	11.202E-6
	14.00000	-20.00000	13.00000	0.24401	12.566	-0.015419	-1.6784	11.133E-6
	15.00000	-20.00000	13.00000	0.24499	12.566	-0.015057	-1.6629	11.034E-6
	16.00000	-20.00000	13.00000	0.24593	12.566	-0.014626	-1.6431	10.908E-6
	17.00000	-20.00000	13.00000	0.24681	12.566	-0.014135	-1.6192	10.755E-6
	18.00000	-20.00000	13.00000	0.24762	12.566	-0.013590	-1.5916	10.578E-6
	19.00000	-20.00000	13.00000	0.24835	12.566	-0.013001	-1.5606	10.378E-6
	20.00000	-20.00000	13.00000	0.24899	12.566	-0.012377	-1.5265	10.159E-6
	21.00000	-20.00000	13.00000	0.24952	12.566	-0.011729	-1.4898	9.9214E-6
	22.00000	-20.00000	13.00000	0.24993	12.566	-0.011066	-1.4508	9.6690E-6
	23.00000	-20.00000	13.00000	0.25022	12.566	-0.010396	-1.4099	9.4038E-6
	24.00000	-20.00000	13.00000	0.25037	12.566	-0.0097296	-1.3675	9.1282E-6
	25.00000	-20.00000	13.00000	0.25038	12.566	-0.0090731	-1.3239	8.8446E-6
	26.00000	-20.00000	13.00000	0.25025	12.566	-0.0084334	-1.2795	8.5550E-6
	27.00000	-20.00000	13.00000	0.24996	12.566	-0.0078158	-1.2347	8.2615E-6
	28.00000	-20.00000	13.00000	0.24951	12.566	-0.0072247	-1.1896	7.9660E-6
	29.00000	-20.00000	13.00000	0.24888	12.566	-0.0066632	-1.1445	7.6702E-6
	30.00000	-20.00000	13.00000	0.24809	12.566	-0.0061334	-1.0997	7.3756E-6
	31.00000	-20.00000	13.00000	0.24710	12.566	-0.0056363	-1.0554	7.0837E-6
	32.00000	-20.00000	13.00000	0.24593	12.566	-0.0051725	-1.0118	6.7955E-6
	33.00000	-20.00000	13.00000	0.24455	12.566	-0.0047416	-0.96897	6.5122E-6
	34.00000	-20.00000	13.00000	0.24296	12.566	-0.0043429	-0.92709	6.2347E-6
	35.00000	-20.00000	13.00000	0.24116	12.566	-0.0039755	-0.88622	5.9638E-6
	36.00000	-20.00000	13.00000	0.23913	12.566	-0.0036368	-0.84662	5.7002E-6
	37.00000	-20.00000	13.00000	0.23687	12.566	-0.0033265	-0.80819	5.4445E-6
	38.00000	-20.00000	13.00000	0.23438	12.566	-0.0030422	-0.77106	5.1970E-6
	39.00000	-20.00000	13.00000	0.23166	12.566	-0.0027824	-0.73526	4.9582E-6
	40.00000	-20.00000	13.00000	0.22871	12.566	-0.0025451	-0.70083	4.7282E-6
	41.00000	-20.00000	13.00000	0.22554	12.566	-0.0023287	-0.66779	4.5072E-6
	42.00000	-20.00000	13.00000	0.22215	12.566	-0.0021314	-0.63614	4.2954E-6
	43.00000	-20.00000	13.00000	0.21857	12.566	-0.0019517	-0.60587	4.0926E-6
	44.00000	-20.00000	13.00000	0.21479	12.566	-0.0017881	-0.57697	3.8988E-6
	45.00000	-20.00000	13.00000	0.21085	12.566	-0.0016391	-0.54942	3.7140E-6
	46.00000	-20.00000	13.00000	0.20675	12.566	-0.0015035	-0.52318	3.5378E-6
	47.00000	-20.00000	13.00000	0.20252	12.566	-0.0013800	-0.49823	3.3701E-6
	48.00000	-20.00000	13.00000	0.19817	12.566	-0.0012676	-0.47451	3.2106E-6
	49.00000	-20.00000	13.00000	0.19373	12.566	-0.0011651	-0.45199	3.0591E-6
	50.00000	-20.00000	13.00000	0.18921	12.566	-0.0010719	-0.43062	2.9153E-6
	51.00000	-20.00000	13.00000	0.18464	12.566	-986.70E-6	-0.41035	2.7788E-6
	52.00000	-20.00000	13.00000	0.18003	12.566	-909.08E-6	-0.39114	2.6493E-6
	53.00000	-20.00000	13.00000	0.17541	12.566	-838.25E-6	-0.37293	2.5265E-6
	54.00000	-20.00000	13.00000	0.17078	12.566	-773.56E-6	-0.35568	2.4102E-6
	55.00000	-20.00000	13.00000	0.16617	12.566	-714.45E-6	-0.33939	2.2999E-6
	-25.00000	-19.00000	13.00000	0.15244	12.566	-0.0017409	-0.47050	3.1736E-6
	-24.00000	-19.00000	13.00000	0.15673	12.566	-0.0019045	-0.49495	3.3370E-6
	-23.00000	-19.00000	13.00000	0.16104	12.566	-0.0020851	-0.52083	3.5098E-6
	-22.00000	-19.00000	13.00000	0.16536	12.566	-0.0022843	-0.54823	3.6926E-6
	-21.00000	-19.00000	13.00000	0.16968	12.566	-0.0025042	-0.57722	3.8859E-6
	-20.00000	-19.00000	13.00000	0.17398	12.566	-0.0027468	-0.60787	4.0900E-6
	-19.00000	-19.00000	13.00000	0.17824	12.566	-0.0030144	-0.64027	4.3055E-6
	-18.00000	-19.00000	13.00000	0.18243	12.566	-0.0033093	-0.67447	4.5327E-6
	-17.00000	-19.00000	13.00000	0.18655	12.566	-0.0036339	-0.71054	4.7721E-6
	-16.00000	-19.00000	13.00000	0.19057	12.566	-0.0039900	-0.74853	5.0239E-6
	-15.00000	-19.00000	13.00000	0.19446	12.566	-0.0043826	-0.78848	5.2884E-6
	-14.00000	-19.00000	13.00000	0.19820	12.566	-0.0048116	-0.83040	5.5656E-6
	-13.00000	-19.00000	13.00000	0.20178	12.566	-0.0052803	-0.87432	5.8555E-6
	-12.00000	-19.00000	13.00000	0.20516	12.566	-0.0057905	-0.92019	6.1580E-6
	-11.00000	-19.00000	13.00000	0.20834	12.566	-0.0063440	-0.96797	6.4726E-6
	-10.00000	-19.00000	13.00000	0.21130	12.566	-0.0069416	-1.0176	6.7987E-6
	-9.00000	-19.00000	13.00000	0.21401	12.566	-0.0075836	-1.0689	7.1354E-6
	-8.00000	-19.00000	13.00000	0.21648	12.566	-0.0082690	-1.1217	7.4816E-6
	-7.00000	-19.00000	13.00000	0.21869	12.566	-0.0089957	-1.1758	7.8357E-6
	-6.00000	-19.00000	13.00000	0.22066	12.566	-0.0097603	-1.2308	8.1960E-6
	-5.00000	-19.00000	13.00000	0.22238	12.566	-0.010558	-1.2867	8.5603E-6
	-4.00000	-19.00000	13.00000	0.22386	12.566	-0.011381	-1.3428	8.9262E-6
	-3.00000	-19.00000	13.00000	0.22513	12.566	-0.012222	-1.3988	9.2908E-6
	-2.00000	-19.00000	13.00000	0.22621	12.566	-0.013070	-1.4541	9.6510E-6
	-1.00000	-19.00000	13.00000	0.22712	12.566	-0.013915	-1.5094	9.9946E-6
	0.00000	-19.00000	13.00000	0.22790	12.566	-0.014744	-1.5609	10.345E-6
	1.00000	-19.00000	13.00000	0.22856	12.566	-0.015544	-1.6113	10.672E-6
	2.00000	-19.00000	13.00000	0.22916	12.566	-0.016302	-1.6589	10.981E-6
	3.00000	-19.00000	13.00000	0.22971	12.566	-0.017005	-1.7031	11.269E-6
	4.00000	-19.00000	13.00000	0.23025	12.566	-0.017644	-1.7435	11.532E-6
	5.00000	-19.00000	13.00000	0.23080	12.566	-0.018200	-1.7797	11.767E-6
	6.00000	-19.00000	13.00000	0.23138	12.566	-0.018671	-1.8111	11.971E-6
	7.00000	-19.00000	13.00000	0.23201	12.566	-0.019046	-1.8375	12.144E-6
	8.00000	-19.00000	13.00000	0.23270	12.566	-0.019320	-1.8585	12.281E-6
	9.00000	-19.00000	13.00000	0.23346	12.566	-0.019487	-1.8740	12.383E-6
	10.00000	-19.00000	13.00000	0.23429	12.566	-0.019545	-1.8837	12.448E-6
	11.00000	-19.00000	13.00000	0.23518	12.566	-0.019493	-1.8876	12.476E-6
	12.00000	-19.00000	13.00000	0.23612	12.566	-0.019332	-1.8858	12.467E-6
	13.00000	-19.00000	13.00000	0.23712	12.566	-0.019064	-1.8782	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
54.00000	-19.00000	13.00000	0.17507	12.566	-818.75E-6	-0.36952	2.5037E-6
55.00000	-19.00000	13.00000	0.17033	12.566	-754.83E-6	-0.35211	2.3862E-6
-25.00000	-18.00000	13.00000	0.15584	12.566	-0.0018782	-0.49120	3.3120E-6
-24.00000	-18.00000	13.00000	0.16023	12.566	-0.0020606	-0.51751	3.4877E-6
-23.00000	-18.00000	13.00000	0.16464	12.566	-0.0022628	-0.54545	3.6741E-6
-22.00000	-18.00000	13.00000	0.16905	12.566	-0.0024870	-0.57510	3.8718E-6
-21.00000	-18.00000	13.00000	0.17344	12.566	-0.0027356	-0.60657	4.0813E-6
-20.00000	-18.00000	13.00000	0.17780	12.566	-0.0030112	-0.63995	4.3034E-6
-19.00000	-18.00000	13.00000	0.18209	12.566	-0.0033168	-0.67534	4.5385E-6
-18.00000	-18.00000	13.00000	0.18631	12.566	-0.0036554	-0.71283	4.7873E-6
-17.00000	-18.00000	13.00000	0.19041	12.566	-0.0040303	-0.75251	5.0503E-6
-16.00000	-18.00000	13.00000	0.19439	12.566	-0.0044451	-0.79445	5.3279E-6
-15.00000	-18.00000	13.00000	0.19820	12.566	-0.0049031	-0.83872	5.6205E-6
-14.00000	-18.00000	13.00000	0.20183	12.566	-0.0054081	-0.88537	5.9283E-6
-13.00000	-18.00000	13.00000	0.20524	12.566	-0.0059634	-0.93443	6.2516E-6
-12.00000	-18.00000	13.00000	0.20841	12.566	-0.0065723	-0.98589	6.5901E-6
-11.00000	-18.00000	13.00000	0.21132	12.566	-0.0072374	-1.0397	6.9437E-6
-10.00000	-18.00000	13.00000	0.21395	12.566	-0.0079607	-1.0958	7.3117E-6
-9.00000	-18.00000	13.00000	0.21628	12.566	-0.0087433	-1.1541	7.6932E-6
-8.00000	-18.00000	13.00000	0.21831	12.566	-0.0095849	-1.2144	8.0871E-6
-7.00000	-18.00000	13.00000	0.22002	12.566	-0.0104802	-1.2764	8.4917E-6
-6.00000	-18.00000	13.00000	0.22142	12.566	-0.011435	-1.3398	8.9049E-6
-5.00000	-18.00000	13.00000	0.22252	12.566	-0.012435	-1.4043	9.3242E-6
-4.00000	-18.00000	13.00000	0.22333	12.566	-0.013472	-1.4694	9.7469E-6
-3.00000	-18.00000	13.00000	0.22389	12.566	-0.014538	-1.5345	10.1696E-6
-2.00000	-18.00000	13.00000	0.22422	12.566	-0.015619	-1.5992	10.5885E-6
-1.00000	-18.00000	13.00000	0.22437	12.566	-0.016700	-1.6627	10.9996E-6
0.00000	-18.00000	13.00000	0.22436	12.566	-0.017764	-1.7244	11.398E-6
1.00000	-18.00000	13.00000	0.22426	12.566	-0.018794	-1.7836	11.781E-6
2.00000	-18.00000	13.00000	0.22410	12.566	-0.019771	-1.8396	12.143E-6
3.00000	-18.00000	13.00000	0.22393	12.566	-0.020680	-1.8919	12.481E-6
4.00000	-18.00000	13.00000	0.22378	12.566	-0.021503	-1.9395	12.789E-6
5.00000	-18.00000	13.00000	0.22370	12.566	-0.022225	-1.9822	13.065E-6
6.00000	-18.00000	13.00000	0.22371	12.566	-0.022835	-2.0192	13.306E-6
7.00000	-18.00000	13.00000	0.22383	12.566	-0.023321	-2.0503	13.508E-6
8.00000	-18.00000	13.00000	0.22400	12.566	-0.023675	-2.0750	13.669E-6
9.00000	-18.00000	13.00000	0.22449	12.566	-0.023891	-2.0931	13.788E-6
10.00000	-18.00000	13.00000	0.22503	12.566	-0.023966	-2.1044	13.864E-6
11.00000	-18.00000	13.00000	0.22571	12.566	-0.023899	-2.1088	13.895E-6
12.00000	-18.00000	13.00000	0.22652	12.566	-0.023690	-2.1064	13.883E-6
13.00000	-18.00000	13.00000	0.22746	12.566	-0.023340	-2.0976	13.827E-6
14.00000	-18.00000	13.00000	0.22849	12.566	-0.022865	-2.0814	13.729E-6
15.00000	-18.00000	13.00000	0.22961	12.566	-0.022263	-2.0593	13.590E-6
16.00000	-18.00000	13.00000	0.23080	12.566	-0.021548	-2.0312	13.414E-6
17.00000	-18.00000	13.00000	0.23204	12.566	-0.020732	-1.9976	13.201E-6
18.00000	-18.00000	13.00000	0.23330	12.566	-0.019831	-1.9582	12.956E-6
19.00000	-18.00000	13.00000	0.23457	12.566	-0.018859	-1.9157	12.680E-6
20.00000	-18.00000	13.00000	0.23582	12.566	-0.017836	-1.8684	12.379E-6
21.00000	-18.00000	13.00000	0.23705	12.566	-0.016778	-1.8178	12.056E-6
22.00000	-18.00000	13.00000	0.23824	12.566	-0.015702	-1.7643	11.713E-6
23.00000	-18.00000	13.00000	0.23937	12.566	-0.014620	-1.7086	11.355E-6
24.00000	-18.00000	13.00000	0.24043	12.566	-0.013564	-1.6512	10.985E-6
25.00000	-18.00000	13.00000	0.24140	12.566	-0.012529	-1.5926	10.607E-6
26.00000	-18.00000	13.00000	0.24228	12.566	-0.011532	-1.5333	10.222E-6
27.00000	-18.00000	13.00000	0.24305	12.566	-0.010581	-1.4737	9.8353E-6
28.00000	-18.00000	13.00000	0.24371	12.566	-0.0096825	-1.4127	9.4478E-6
29.00000	-18.00000	13.00000	0.24423	12.566	-0.0088403	-1.3551	9.0621E-6
30.00000	-18.00000	13.00000	0.24459	12.566	-0.0080562	-1.2968	8.6801E-6
31.00000	-18.00000	13.00000	0.24479	12.566	-0.0073307	-1.2394	8.3036E-6
32.00000	-18.00000	13.00000	0.24480	12.566	-0.0066626	-1.1832	7.9341E-6
33.00000	-18.00000	13.00000	0.24460	12.566	-0.0060503	-1.1280	7.5727E-6
34.00000	-18.00000	13.00000	0.24416	12.566	-0.0054910	-1.0751	7.2206E-6
35.00000	-18.00000	13.00000	0.24347	12.566	-0.0049816	-1.0234	6.8787E-6
36.00000	-18.00000	13.00000	0.24250	12.566	-0.0045189	-0.97352	6.5477E-6
37.00000	-18.00000	13.00000	0.24123	12.566	-0.0040994	-0.92544	6.2284E-6
38.00000	-18.00000	13.00000	0.23966	12.566	-0.0037196	-0.8792	5.9210E-6
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40.00000	-18.00000	13.00000	0.23556	12.566	-0.0030659	-0.79262	5.3436E-6
41.00000	-18.00000	13.00000	0.23304	12.566	-0.0027858	-0.75222	5.0738E-6
42.00000	-18.00000	13.00000	0.23020	12.566	-0.0025329	-0.71375	4.8165E-6
43.00000	-18.00000	13.00000	0.22706	12.566	-0.0023047	-0.67717	4.5717E-6
44.00000	-18.00000	13.00000	0.22364	12.566	-0.0020987	-0.64245	4.3391E-6
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46.00000	-18.00000	13.00000	0.21603	12.566	-0.0017448	-0.57839	3.9094E-6
47.00000	-18.00000	13.00000	0.21180	12.566	-0.0015931	-0.54892	3.7115E-6
48.00000	-18.00000	13.00000	0.20758	12.566	-0.0014560	-0.52106	3.5243E-6
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51.00000	-18.00000	13.00000	0.19380	12.566	-0.0011179	-0.44648	3.0225E-6
52.00000	-18.00000	13.00000	0.18902	12.566	-0.0010257	-0.42437	2.8736E-6
53.00000	-18.00000	13.00000	0.18420	12.566	-842.05E-6	-0.40352	2.7331E-6
54.00000	-18.00000	13.00000	0.17934	12.566	-866.06E-6	-0.38385	2.6005E-6
55.00000	-18.00000	13.00000	0.17447	12.566	-797.00E-6	-0.36530	2.4753E-6
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-16.00000	-17.00000	13.00000	0.19799	12.566	-0.0049554	-0.84352	5.6521E-6
-15.00000	-17.00000	13.00000	0.20167	12.566	-0.0054919	-0.89263	5.9761E-6
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-4.00000	-17.00000	13.00000	0.22106	12.566	-0.016051	-1.6124	10.670E-6
-3.00000	-17.00000	13.00000	0.22067	12.566	-0.017414	-1.6887	11.1628E-6
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0.00000	-17.00000	13.00000	0.21812	12.566	-0.021582	-1.9122	12.601E-6
1.00000	-17.00000	13.00000	0.21699	12.566	-0.022921	-1.9822	13.051E-6
2.00000	-17.00000	13.00000	0.21583	12.566	-0.024190	-2.0480	13.478E-6
3.00000	-17.00000	13.00000	0.21470	12.566	-0.025382	-2.1105	13.876E-6
4.00000	-17.00000	13.00000	0.21365	12.566	-0.026457	-2.1671	14.240E-6
5.00000	-17.00000	13.00000	0.21273	12.566	-0.027401	-2.2177	14.566E-6
6.00000	-17.00000	13.000					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
22.00000	-17.00000	13.00000	0.22644	12.566	-0.018910	-1.9561	12.956E-6
23.00000	-17.00000	13.00000	0.22816	12.566	-0.017525	-1.8906	12.537E-6
24.00000	-17.00000	13.00000	0.22985	12.566	-0.016166	-1.8233	12.106E-6
25.00000	-17.00000	13.00000	0.23151	12.566	-0.014850	-1.7549	11.666E-6
26.00000	-17.00000	13.00000	0.23312	12.566	-0.013590	-1.6859	11.221E-6
27.00000	-17.00000	13.00000	0.23466	12.566	-0.012398	-1.6168	10.774E-6
28.00000	-17.00000	13.00000	0.23612	12.566	-0.011279	-1.5481	10.328E-6
29.00000	-17.00000	13.00000	0.23747	12.566	-0.010239	-1.4801	9.8858E-6
30.00000	-17.00000	13.00000	0.23870	12.566	-0.0092777	-1.4131	9.4490E-6
31.00000	-17.00000	13.00000	0.23978	12.566	-0.0083952	-1.3475	9.0196E-6
32.00000	-17.00000	13.00000	0.24068	12.566	-0.0075889	-1.2835	8.5994E-6
33.00000	-17.00000	13.00000	0.24136	12.566	-0.0068553	-1.2212	8.1896E-6
34.00000	-17.00000	13.00000	0.24180	12.566	-0.0061902	-1.1609	7.7914E-6
35.00000	-17.00000	13.00000	0.24197	12.566	-0.0055887	-1.1025	7.4058E-6
36.00000	-17.00000	13.00000	0.24182	12.566	-0.0050460	-1.0463	7.0336E-6
37.00000	-17.00000	13.00000	0.24133	12.566	-0.0045572	-0.99235	6.6755E-6
38.00000	-17.00000	13.00000	0.24048	12.566	-0.0041173	-0.94065	6.3318E-6
39.00000	-17.00000	13.00000	0.23925	12.566	-0.0037220	-0.89124	6.0029E-6
40.00000	-17.00000	13.00000	0.23764	12.566	-0.0033669	-0.84415	5.6889E-6
41.00000	-17.00000	13.00000	0.23564	12.566	-0.0030479	-0.79936	5.3900E-6
42.00000	-17.00000	13.00000	0.23325	12.566	-0.0027615	-0.75684	5.1058E-6
43.00000	-17.00000	13.00000	0.23050	12.566	-0.0025043	-0.71655	4.8362E-6
44.00000	-17.00000	13.00000	0.22739	12.566	-0.0022732	-0.67843	4.5810E-6
45.00000	-17.00000	13.00000	0.22396	12.566	-0.0020655	-0.64241	4.3395E-6
46.00000	-17.00000	13.00000	0.22023	12.566	-0.0018788	-0.60841	4.1114E-6
47.00000	-17.00000	13.00000	0.21624	12.566	-0.0017108	-0.57635	3.8962E-6
48.00000	-17.00000	13.00000	0.21201	12.566	-0.0015594	-0.54614	3.6932E-6
49.00000	-17.00000	13.00000	0.20758	12.566	-0.0014230	-0.51768	3.5019E-6
50.00000	-17.00000	13.00000	0.20299	12.566	-0.0013000	-0.49090	3.3218E-6
51.00000	-17.00000	13.00000	0.19826	12.566	-0.0011890	-0.46569	3.1521E-6
52.00000	-17.00000	13.00000	0.19343	12.566	-0.0010886	-0.44197	2.9924E-6
53.00000	-17.00000	13.00000	0.18852	12.566	-997.76E-6	-0.41966	2.8420E-6
54.00000	-17.00000	13.00000	0.18357	12.566	-915.51E-6	-0.39866	2.7005E-6
55.00000	-17.00000	13.00000	0.17859	12.566	-840.96E-6	-0.37890	2.5672E-6
-25.00000	-16.00000	13.00000	0.16254	12.566	-0.0021832	-0.53499	3.6044E-6
-24.00000	-16.00000	13.00000	0.16712	12.566	-0.0024096	-0.56544	3.8074E-6
-23.00000	-16.00000	13.00000	0.17169	12.566	-0.0026628	-0.59794	4.0240E-6
-22.00000	-16.00000	13.00000	0.17624	12.566	-0.0029462	-0.63265	4.2550E-6
-21.00000	-16.00000	13.00000	0.18073	12.566	-0.0032636	-0.66972	4.5013E-6
-20.00000	-16.00000	13.00000	0.18514	12.566	-0.0036193	-0.70930	4.7640E-6
-19.00000	-16.00000	13.00000	0.18945	12.566	-0.0040181	-0.75155	5.0440E-6
-18.00000	-16.00000	13.00000	0.19360	12.566	-0.0044653	-0.79663	5.3423E-6
-17.00000	-16.00000	13.00000	0.19758	12.566	-0.0049666	-0.84470	5.6600E-6
-16.00000	-16.00000	13.00000	0.20133	12.566	-0.0055285	-0.89592	5.9978E-6
-15.00000	-16.00000	13.00000	0.20483	12.566	-0.0061577	-0.95044	6.3568E-6
-14.00000	-16.00000	13.00000	0.20802	12.566	-0.0068615	-1.00864	6.7376E-6
-13.00000	-16.00000	13.00000	0.21088	12.566	-0.0076472	-1.0699	7.1409E-6
-12.00000	-16.00000	13.00000	0.21336	12.566	-0.0085221	-1.1350	7.5670E-6
-11.00000	-16.00000	13.00000	0.21542	12.566	-0.0094934	-1.2037	8.0160E-6
-10.00000	-16.00000	13.00000	0.21704	12.566	-0.010567	-1.2761	8.4876E-6
-9.00000	-16.00000	13.00000	0.21818	12.566	-0.011749	-1.3520	8.9812E-6
-8.00000	-16.00000	13.00000	0.21884	12.566	-0.013041	-1.4312	9.4954E-6
-7.00000	-16.00000	13.00000	0.21900	12.566	-0.014443	-1.5136	10.028E-6
-6.00000	-16.00000	13.00000	0.21867	12.566	-0.015952	-1.5986	10.578E-6
-5.00000	-16.00000	13.00000	0.21788	12.566	-0.017561	-1.6859	11.140E-6
-4.00000	-16.00000	13.00000	0.21665	12.566	-0.019255	-1.7748	11.711E-6
-3.00000	-16.00000	13.00000	0.21503	12.566	-0.021019	-1.8644	12.287E-6
-2.00000	-16.00000	13.00000	0.21308	12.566	-0.022827	-1.9540	12.861E-6
-1.00000	-16.00000	13.00000	0.21088	12.566	-0.024653	-2.0426	13.428E-6
0.00000	-16.00000	13.00000	0.20851	12.566	-0.026464	-2.1292	13.981E-6
1.00000	-16.00000	13.00000	0.20604	12.566	-0.028228	-2.2126	14.514E-6
2.00000	-16.00000	13.00000	0.20358	12.566	-0.029909	-2.2918	15.020E-6
3.00000	-16.00000	13.00000	0.20119	12.566	-0.031474	-2.3657	15.492E-6
4.00000	-16.00000	13.00000	0.19895	12.566	-0.032893	-2.4333	15.924E-6
5.00000	-16.00000	13.00000	0.19694	12.566	-0.034140	-2.4938	16.311E-6
6.00000	-16.00000	13.00000	0.19521	12.566	-0.035190	-2.5463	16.648E-6
7.00000	-16.00000	13.00000	0.19379	12.566	-0.036026	-2.5902	16.930E-6
8.00000	-16.00000	13.00000	0.19272	12.566	-0.036634	-2.6249	17.154E-6
9.00000	-16.00000	13.00000	0.19202	12.566	-0.037005	-2.6501	17.319E-6
10.00000	-16.00000	13.00000	0.19168	12.566	-0.037133	-2.6655	17.421E-6
11.00000	-16.00000	13.00000	0.19171	12.566	-0.037016	-2.6710	17.461E-6
12.00000	-16.00000	13.00000	0.19208	12.566	-0.036657	-2.6668	17.439E-6
13.00000	-16.00000	13.00000	0.19279	12.566	-0.036061	-2.6528	17.356E-6
14.00000	-16.00000	13.00000	0.19380	12.566	-0.035237	-2.6294	17.214E-6
15.00000	-16.00000	13.00000	0.19509	12.566	-0.034198	-2.5971	17.015E-6
16.00000	-16.00000	13.00000	0.19662	12.566	-0.032964	-2.5564	16.762E-6
17.00000	-16.00000	13.00000	0.19837	12.566	-0.031556	-2.5079	16.460E-6
18.00000	-16.00000	13.00000	0.20030	12.566	-0.030002	-2.4524	16.113E-6
19.00000	-16.00000	13.00000	0.20239	12.566	-0.028332	-2.3907	15.727E-6
20.00000	-16.00000	13.00000	0.20460	12.566	-0.026579	-2.3237	15.306E-6
21.00000	-16.00000	13.00000	0.20692	12.566	-0.024778	-2.2523	14.855E-6
22.00000	-16.00000	13.00000	0.20931	12.566	-0.022961	-2.1774	14.382E-6
23.00000	-16.00000	13.00000	0.21177	12.566	-0.021160	-2.0999	13.890E-6
24.00000	-16.00000	13.00000	0.21426	12.566	-0.019403	-2.0206	13.385E-6
25.00000	-16.00000	13.00000	0.21678	12.566	-0.017713	-1.9403	12.872E-6
26.00000	-16.00000	13.00000	0.21931	12.566	-0.016108	-1.8597	12.355E-6
27.00000	-16.00000	13.00000	0.22182	12.566	-0.014600	-1.7793	11.837E-6
28.00000	-16.00000	13.00000	0.22431	12.566	-0.013198	-1.6996	11.323E-6
29.00000	-16.00000	13.00000	0.22673	12.566	-0.011905	-1.6211	10.813E-6
30.00000	-16.00000	13.00000	0.22908	12.566	-0.010720	-1.5440	10.312E-6
31.00000	-16.00000	13.00000	0.23130	12.566	-0.0096418	-1.4688	9.8212E-6
32.00000	-16.00000	13.00000	0.23336	12.566	-0.0086648	-1.3956	9.3419E-6
33.00000	-16.00000	13.00000	0.23521	12.566	-0.0077832	-1.3246	8.8758E-6
34.00000	-16.00000	13.00000	0.23680	12.566	-0.0069901	-1.256	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-10.00000	-15.00000	13.00000	0.21719	12.566	-0.012233	-1.3798
	-9.00000	-15.00000	13.00000	0.21747	12.566	-0.013696	-1.4668
	-8.00000	-15.00000	13.00000	0.21713	12.566	-0.015312	-1.5581
	-7.00000	-15.00000	13.00000	0.21616	12.566	-0.017083	-1.6536
	-6.00000	-15.00000	13.00000	0.21457	12.566	-0.019008	-1.7528
	-5.00000	-15.00000	13.00000	0.21239	12.566	-0.021078	-1.8550
	-4.00000	-15.00000	13.00000	0.20966	12.566	-0.023277	-1.9597
	-3.00000	-15.00000	13.00000	0.20644	12.566	-0.025583	-2.0658
	-2.00000	-15.00000	13.00000	0.20281	12.566	-0.027964	-2.1724
	-1.00000	-15.00000	13.00000	0.19888	12.566	-0.030381	-2.2781
	0.00000	-15.00000	13.00000	0.19475	12.566	-0.032789	-2.3816
	1.00000	-15.00000	13.00000	0.19054	12.566	-0.035140	-2.4817
	2.00000	-15.00000	13.00000	0.18636	12.566	-0.037385	-2.5768
	3.00000	-15.00000	13.00000	0.18234	12.566	-0.039477	-2.6657
	4.00000	-15.00000	13.00000	0.17857	12.566	-0.041374	-2.7470
	5.00000	-15.00000	13.00000	0.17514	12.566	-0.043037	-2.8197
	6.00000	-15.00000	13.00000	0.17212	12.566	-0.044437	-2.8828
	7.00000	-15.00000	13.00000	0.16958	12.566	-0.045550	-2.9354
	8.00000	-15.00000	13.00000	0.16754	12.566	-0.046358	-2.9769
	9.00000	-15.00000	13.00000	0.16603	12.566	-0.046850	-3.0068
	10.00000	-15.00000	13.00000	0.16505	12.566	-0.047020	-3.0255
	11.00000	-15.00000	13.00000	0.16460	12.566	-0.046865	-3.0312
	12.00000	-15.00000	13.00000	0.16465	12.566	-0.046387	-3.0255
	13.00000	-15.00000	13.00000	0.16517	12.566	-0.045594	-3.0081
	14.00000	-15.00000	13.00000	0.16615	12.566	-0.044496	-2.9794
	15.00000	-15.00000	13.00000	0.16753	12.566	-0.042711	-2.9111
	16.00000	-15.00000	13.00000	0.16929	12.566	-0.041463	-2.8904
	17.00000	-15.00000	13.00000	0.17138	12.566	-0.039582	-2.8316
	18.00000	-15.00000	13.00000	0.17376	12.566	-0.037504	-2.7644
	19.00000	-15.00000	13.00000	0.17640	12.566	-0.035274	-2.6899
	20.00000	-15.00000	13.00000	0.17927	12.566	-0.032936	-2.6097
	21.00000	-15.00000	13.00000	0.18233	12.566	-0.030541	-2.5237
	22.00000	-15.00000	13.00000	0.18555	12.566	-0.028136	-2.4342
	23.00000	-15.00000	13.00000	0.18892	12.566	-0.025766	-2.3420
	24.00000	-15.00000	13.00000	0.19241	12.566	-0.023468	-2.2481
	25.00000	-15.00000	13.00000	0.19600	12.566	-0.021275	-2.1534
	26.00000	-15.00000	13.00000	0.19968	12.566	-0.019209	-2.0587
	27.00000	-15.00000	13.00000	0.20343	12.566	-0.017287	-1.9647
	28.00000	-15.00000	13.00000	0.20721	12.566	-0.015515	-1.8719
	29.00000	-15.00000	13.00000	0.21101	12.566	-0.013897	-1.7809
	30.00000	-15.00000	13.00000	0.21478	12.566	-0.012428	-1.6918
	31.00000	-15.00000	13.00000	0.21847	12.566	-0.011106	-1.6054
	32.00000	-15.00000	13.00000	0.22203	12.566	-0.0099173	-1.5214
	33.00000	-15.00000	13.00000	0.22540	12.566	-0.0088544	-1.4402
	34.00000	-15.00000	13.00000	0.22850	12.566	-0.0079062	-1.3620
	35.00000	-15.00000	13.00000	0.23126	12.566	-0.0070721	-1.2870
	36.00000	-15.00000	13.00000	0.23362	12.566	-0.0063117	-1.2151
	37.00000	-15.00000	13.00000	0.23552	12.566	-0.0056453	-1.1465
	38.00000	-15.00000	13.00000	0.23689	12.566	-0.0050537	-1.0812
	39.00000	-15.00000	13.00000	0.23771	12.566	-0.0045287	-1.0192
	40.00000	-15.00000	13.00000	0.23795	12.566	-0.0040627	-0.96054
	41.00000	-15.00000	13.00000	0.23759	12.566	-0.0036491	-0.90513
	42.00000	-15.00000	13.00000	0.23664	12.566	-0.0032816	-0.85291
	43.00000	-15.00000	13.00000	0.23511	12.566	-0.0029551	-0.80378
	44.00000	-15.00000	13.00000	0.23303	12.566	-0.0026645	-0.75762
	45.00000	-15.00000	13.00000	0.23045	12.566	-0.0024059	-0.71370
	46.00000	-15.00000	13.00000	0.22739	12.566	-0.0021753	-0.67372
	47.00000	-15.00000	13.00000	0.22391	12.566	-0.0019696	-0.63570
	48.00000	-15.00000	13.00000	0.22006	12.566	-0.0017858	-0.60010
	49.00000	-15.00000	13.00000	0.21589	12.566	-0.0016214	-0.56679
	50.00000	-15.00000	13.00000	0.21144	12.566	-0.0014741	-0.53566
	51.00000	-15.00000	13.00000	0.20677	12.566	-0.0013420	-0.50645
	52.00000	-15.00000	13.00000	0.20192	12.566	-0.0012234	-0.47916
	53.00000	-15.00000	13.00000	0.19693	12.566	-0.0011168	-0.45361
	54.00000	-15.00000	13.00000	0.19184	12.566	-0.0010207	-0.42970
	55.00000	-14.00000	13.00000	0.18669	12.566	-0.0010136	-0.40730
	-25.00000	-14.00000	13.00000	0.16905	12.566	-0.0025312	-0.58189
	-24.00000	-14.00000	13.00000	0.17377	12.566	-0.0028112	-0.61703
	-23.00000	-14.00000	13.00000	0.17846	12.566	-0.0031272	-0.65478
	-22.00000	-14.00000	13.00000	0.18308	12.566	-0.0034843	-0.69534
	-21.00000	-14.00000	13.00000	0.18759	12.566	-0.0038889	-0.73893
	-20.00000	-14.00000	13.00000	0.19197	12.566	-0.0043469	-0.78581
	-19.00000	-14.00000	13.00000	0.19615	12.566	-0.0048669	-0.83622
	-18.00000	-14.00000	13.00000	0.20010	12.566	-0.0054575	-0.89043
	-17.00000	-14.00000	13.00000	0.20375	12.566	-0.0061289	-0.94872
	-16.00000	-14.00000	13.00000	0.20707	12.566	-0.0068924	-1.0114
	-15.00000	-14.00000	13.00000	0.20997	12.566	-0.0077608	-1.0787
	-14.00000	-14.00000	13.00000	0.21240	12.566	-0.0087482	-1.1509
	-13.00000	-14.00000	13.00000	0.21431	12.566	-0.0098698	-1.2283
	-12.00000	-14.00000	13.00000	0.21561	12.566	-0.011142	-1.3112
	-11.00000	-14.00000	13.00000	0.21626	12.566	-0.012589	-1.3997
	-10.00000	-14.00000	13.00000	0.21620	12.566	-0.014205	-1.4939
	-9.00000	-14.00000	13.00000	0.21538	12.566	-0.016028	-1.5939
	-8.00000	-14.00000	13.00000	0.21378	12.566	-0.018062	-1.6996
	-7.00000	-14.00000	13.00000	0.21137	12.566	-0.020317	-1.8107
	-6.00000	-14.00000	13.00000	0.20818	12.566	-0.022794	-1.9268
	-5.00000	-14.00000	13.00000	0.20422	12.566	-0.025486	-2.0474
	-4.00000	-14.00000	13.00000	0.19955	12.566	-0.028374	-2.1714
	-3.00000	-14.00000	13.00000	0.19426	12.566	-0.031429	-2.2979
	-2.00000	-14.00000	13.00000	0.18846	12.566	-0.034607	-2.4255
	-1.00000	-14.00000	13.00000	0.18228	12.566	-0.037858	-2.5528
	0.00000	-14.00000	13.00000	0.17587	12.566	-0.041101	-2.6774
	1.00000	-14.00000	13.00000	0.16939	12.566	-0.044282	-2.7984
	2.00000	-14.00000	13.00000	0.16300	12.566	-0.047324	-2.9136
	3.00000	-14.00000	13.00000	0.15685	12.566	-0.050159	-3.0213
	4.00000	-14.00000	13.00000	0.15109	12.566	-0.052726	-3.1197
	5.00000	-14.00000	13.00000	0.14583	12.566	-0.0554973	-3.2079
	6.00000	-14.00000	13.00000	0.14117	12.566	-0.058660	-3.2841
	7.00000	-14.00000	13.00000	0.13718	12.566	-0.058356	-3.3476
	8.00000	-14.00000	13.00000	0.13390	12.566	-0.059440	-3.3975
	9.00000	-14.00000	13.00000	0.13136	12.566	-0.060090	-3.4332
	10.00000	-14.00000	13.00000	0.12957	12.566	-0.060326	-3.4548
	11.00000	-14.00000	13.00000	0.12849	12.566	-0.060118	-3.4617
	12.00000	-14.00000	13.00000	0.12813	12.566	-0.059477	-3.4541
	13.00000	-14.00000	13.00000	0.12842	12.566	-0.058411	-3.4324
	14.00000	-14.00000	13.00000	0.12934	12.566	-0.056934	-3.3969
	15.00000	-14.00000	13.00000	0.13084	12.566	-0.055067	-3.3484
	16.00000	-14.00000	13.00000	0.13287	12.566	-0.052839	-3.2876
	17.00000	-14.00000	13.00000	0.13537	12.566	-0.050293	-3.2157
	18.00000	-14.00000	13.00000	0.13831	12.566	-0.047477	-3.1338
	19.00000	-14.00000	13.00000	0.14163	12.566	-0.044455	-3.0429
	20.00000	-14.00000	13.00000	0.14530	12.566	-0.041292	-2.9455
	21.00000	-14.00000	13.00000	0.14927	12.566	-0.038061	-2.8420
	22.00000	-14.00000	13.00000	0.15351	12.566	-0.034832	-2.7344
	23.00000	-14.00000	13.00000	0.15801	12.566	-0.031668	-2.6240
	24.00000	-14.00000	13.00000	0.16273	12.566	-0.028625	-2.5120
	25.00000	-14.00000	13.00000	0.16766	12.566	-0.025745	-2.3997
	26.00000	-14.00000	13.00000	0.17278	12.566	-0.023059	-2.2879
	27.00000	-14.00000	13.00000	0.17807	12.566	-0.020585	-2.1775
	28.00000	-14.00000	13.00000	0.18350	12.566	-0.018329	-2.0690
	29.00000	-14.00000	13.00000	0.18903	12.566	-0.016290	-1.9633
	30.00000	-14.00000	13.00000	0.19462	12.566	-0.014462	-1.8599
	31.00000	-14.00000	13.00000	0.20020	12.566	-0.012829	-1.7599
	32.00000	-14.00000	13.00000	0.20570	12.566	-0.011378	-1.6633
	33.00000	-14.00000	13.00000	0.21102	12.566	-0.010093	-1.5701
	34.00000	-14.00000	13.00000	0.21608	12.566	-0.0089566	-1.4807
	35.00000	-14.00000	13.00000	0.22077	12.566	-0.0079537	-1.3951
	36.00						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [m]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
39.00000	-14.00000	13.00000	0.23401	12.566	-0.0049973	-1.0921	7.3470E-6
40.00000	-14.00000	13.00000	0.23561	12.566	-0.0044634	-1.0264	6.9095E-6
41.00000	-14.00000	13.00000	0.23647	12.566	-0.0039922	-0.96454	6.4973E-6
42.00000	-14.00000	13.00000	0.23659	12.566	-0.0035761	-0.90648	6.1098E-6
43.00000	-14.00000	13.00000	0.23597	12.566	-0.0032083	-0.85208	5.7463E-6
44.00000	-14.00000	13.00000	0.23467	12.566	-0.0028928	-0.80118	5.4057E-6
45.00000	-14.00000	13.00000	0.23272	12.566	-0.0025944	-0.75361	5.0872E-6
46.00000	-14.00000	13.00000	0.23018	12.566	-0.0023385	-0.70919	4.7894E-6
47.00000	-14.00000	13.00000	0.22711	12.566	-0.0021112	-0.66774	4.5113E-6
48.00000	-14.00000	13.00000	0.22357	12.566	-0.0019089	-0.62907	4.2517E-6
49.00000	-14.00000	13.00000	0.21963	12.566	-0.0017287	-0.59301	4.0094E-6
50.00000	-14.00000	13.00000	0.21534	12.566	-0.0015678	-0.55937	3.7833E-6
51.00000	-14.00000	13.00000	0.21076	12.566	-0.0014241	-0.52800	3.5723E-6
52.00000	-14.00000	13.00000	0.20596	12.566	-0.0012954	-0.49873	3.3753E-6
53.00000	-14.00000	13.00000	0.20097	12.566	-0.0011800	-0.47141	3.1913E-6
54.00000	-14.00000	13.00000	0.19585	12.566	-0.0010764	-0.44591	3.0194E-6
55.00000	-14.00000	13.00000	0.19064	12.566	-983.27E-6	-0.42208	2.8588E-6
-25.00000	-13.00000	13.00000	0.17221	12.566	-0.0027219	-0.60644	4.0807E-6
-24.00000	-13.00000	13.00000	0.17699	12.566	-0.0030326	-0.64415	4.3316E-6
-23.00000	-13.00000	13.00000	0.18171	12.566	-0.0033849	-0.68478	4.6015E-6
-22.00000	-13.00000	13.00000	0.18763	12.566	-0.0037853	-0.72958	4.8921E-6
-21.00000	-13.00000	13.00000	0.19082	12.566	-0.0042408	-0.77581	5.2049E-6
-20.00000	-13.00000	13.00000	0.19513	12.566	-0.0047603	-0.82679	5.5420E-6
-19.00000	-13.00000	13.00000	0.19920	12.566	-0.0053535	-0.88182	5.9052E-6
-18.00000	-13.00000	13.00000	0.20297	12.566	-0.0060318	-0.94124	6.2966E-6
-17.00000	-13.00000	13.00000	0.20639	12.566	-0.0068095	-1.00564	6.7184E-6
-16.00000	-13.00000	13.00000	0.20937	12.566	-0.0076988	-1.0747	7.1729E-6
-15.00000	-13.00000	13.00000	0.21185	12.566	-0.0087199	-1.1495	7.6623E-6
-14.00000	-13.00000	13.00000	0.21375	12.566	-0.0098914	-1.2302	8.1889E-6
-13.00000	-13.00000	13.00000	0.21498	12.566	-0.011235	-1.3173	8.7549E-6
-12.00000	-13.00000	13.00000	0.21547	12.566	-0.012776	-1.4107	9.3624E-6
-11.00000	-13.00000	13.00000	0.21513	12.566	-0.014537	-1.5116	10.013E-6
-10.00000	-13.00000	13.00000	0.21390	12.566	-0.016546	-1.6195	10.708E-6
-9.00000	-13.00000	13.00000	0.21171	12.566	-0.018829	-1.7348	11.447E-6
-8.00000	-13.00000	13.00000	0.20852	12.566	-0.021409	-1.8575	12.231E-6
-7.00000	-13.00000	13.00000	0.20430	12.566	-0.024304	-1.9878	13.058E-6
-6.00000	-13.00000	13.00000	0.19906	12.566	-0.027524	-2.1241	13.925E-6
-5.00000	-13.00000	13.00000	0.19283	12.566	-0.031065	-2.2670	14.827E-6
-4.00000	-13.00000	13.00000	0.18569	12.566	-0.034907	-2.4151	15.759E-6
-3.00000	-13.00000	13.00000	0.17773	12.566	-0.039012	-2.5669	16.710E-6
-2.00000	-13.00000	13.00000	0.16912	12.566	-0.043220	-2.7202	17.672E-6
-1.00000	-13.00000	13.00000	0.16003	12.566	-0.047750	-2.8749	18.632E-6
0.00000	-13.00000	13.00000	0.15067	12.566	-0.052206	-3.0269	19.578E-6
1.00000	-13.00000	13.00000	0.14125	12.566	-0.056582	-3.1745	20.495E-6
2.00000	-13.00000	13.00000	0.13199	12.566	-0.060772	-3.3152	21.369E-6
3.00000	-13.00000	13.00000	0.12310	12.566	-0.064672	-3.4468	22.187E-6
4.00000	-13.00000	13.00000	0.11477	12.566	-0.068196	-3.5673	22.936E-6
5.00000	-13.00000	13.00000	0.10716	12.566	-0.071272	-3.6747	23.606E-6
6.00000	-13.00000	13.00000	0.10039	12.566	-0.073845	-3.7675	24.187E-6
7.00000	-13.00000	13.00000	0.094557	12.566	-0.075878	-3.8446	24.671E-6
8.00000	-13.00000	13.00000	0.089706	12.566	-0.077347	-3.9056	25.053E-6
9.00000	-13.00000	13.00000	0.085865	12.566	-0.078238	-3.9481	25.328E-6
10.00000	-13.00000	13.00000	0.083032	12.566	-0.078543	-3.9735	25.495E-6
11.00000	-13.00000	13.00000	0.081186	12.566	-0.078261	-3.9811	25.553E-6
12.00000	-13.00000	13.00000	0.080290	12.566	-0.077393	-3.9711	25.503E-6
13.00000	-13.00000	13.00000	0.080295	12.566	-0.075948	-3.9438	25.345E-6
14.00000	-13.00000	13.00000	0.081144	12.566	-0.073940	-3.8996	25.085E-6
15.00000	-13.00000	13.00000	0.082777	12.566	-0.071392	-3.8394	24.727E-6
16.00000	-13.00000	13.00000	0.085132	12.566	-0.068343	-3.7644	24.278E-6
17.00000	-13.00000	13.00000	0.088147	12.566	-0.064845	-3.6757	23.745E-6
18.00000	-13.00000	13.00000	0.091760	12.566	-0.060973	-3.5750	23.137E-6
19.00000	-13.00000	13.00000	0.095917	12.566	-0.056809	-3.4639	22.464E-6
20.00000	-13.00000	13.00000	0.10056	12.566	-0.052458	-3.3444	21.738E-6
21.00000	-13.00000	13.00000	0.10566	12.566	-0.048026	-3.2184	20.970E-6
22.00000	-13.00000	13.00000	0.11117	12.566	-0.043618	-3.0879	20.169E-6
23.00000	-13.00000	13.00000	0.11705	12.566	-0.039330	-2.9544	19.343E-6
24.00000	-13.00000	13.00000	0.12330	12.566	-0.035241	-2.8202	18.515E-6
25.00000	-13.00000	13.00000	0.12988	12.566	-0.031411	-2.6862	17.679E-6
26.00000	-13.00000	13.00000	0.13679	12.566	-0.027878	-2.5535	16.847E-6
27.00000	-13.00000	13.00000	0.14401	12.566	-0.024661	-2.4232	16.024E-6
28.00000	-13.00000	13.00000	0.15150	12.566	-0.021765	-2.2959	15.214E-6
29.00000	-13.00000	13.00000	0.15922	12.566	-0.019180	-2.1720	14.423E-6
30.00000	-13.00000	13.00000	0.16712	12.566	-0.016887	-2.0520	13.651E-6
31.00000	-13.00000	13.00000	0.17512	12.566	-0.014864	-1.9360	12.901E-6
32.00000	-13.00000	13.00000	0.18311	12.566	-0.013086	-1.8243	12.175E-6
33.00000	-13.00000	13.00000	0.19096	12.566	-0.011527	-1.7170	11.475E-6
34.00000	-13.00000	13.00000	0.19855	12.566	-0.010162	-1.6142	10.802E-6
35.00000	-13.00000	13.00000	0.20574	12.566	-0.0089685	-1.5161	10.158E-6
36.00000	-13.00000	13.00000	0.21237	12.566	-0.0079248	-1.4228	9.5428E-6
37.00000	-13.00000	13.00000	0.21832	12.566	-0.0070121	-1.3344	8.9581E-6
38.00000	-13.00000	13.00000	0.22349	12.566	-0.0062139	-1.2509	8.4043E-6
39.00000	-13.00000	13.00000	0.22779	12.566	-0.0055152	-1.1721	7.8817E-6
40.00000	-13.00000	13.00000	0.23117	12.566	-0.0049032	-1.0981	7.3900E-6
41.00000	-13.00000	13.00000	0.23360	12.566	-0.0043666	-1.0289	6.9287E-6
42.00000	-13.00000	13.00000	0.23508	12.566	-0.0038956	-0.96420	6.4970E-6
43.00000	-13.00000	13.00000	0.23564	12.566	-0.0034816	-0.90384	6.0937E-6
44.00000	-13.00000	13.00000	0.23533	12.566	-0.0031171	-0.84761	5.7177E-6
45.00000	-13.00000	13.00000	0.23420	12.566	-0.0027958	-0.79529	5.3674E-6
46.00000	-13.00000	13.00000	0.23233	12.566	-0.0025121	-0.74664	5.0413E-6
47.00000	-13.00000	13.00000	0.22980	12.566	-0.0022612	-0.70142	4.7380E-6
48.00000	-13.00000	13.00000	0.22667	12.566	-0.0020389	-0.65948	4.4560E-6
49.00000	-13.00000	13.00000	0.22304	12.566	-0.0018415	-0.62036	4.1937E-6
50.00000	-13.00000	13.00000	0.21897	12.566	-0.0016660	-0.58407	3.9497E-6
51.00000	-13.00000	13.00000	0.21455	12.566	-0.0015097	-0.55033	3.7228E-6
52.00000	-13.00000	13.00000	0.20983	12.566	-0.0013702	-0.51895	3.5116E-6
53.00000	-13.00000	13.00000	0.20487	12.566	-0.0012456	-0.48974	3.3150E-6
54.00000	-13.00000	13.00000	0.19975	12.566	-0.0011340	-0.46255	3.1318E-6
55.00000	-13.00000	13.00000	0.19450	12.566	-0.0010340	-0.43721	2.9610E-6
-25.00000	-12.00000	13.00000	0.17529	12.566	-0.0029238	-0.63167	4.2487E-6
-24.00000	-12.00000	13.00000	0.18011	12.566	-0.0032680	-0.67210	4.5174E-6
-23.00000	-12.00000	13.00000	0.18485	12.566	-0.0036600	-0.71579	4.8074E-6
-22.00000	-12.00000	13.00000	0.18946	12.566	-0.0041081	-0.76304	5.1205E-6
-21.00000	-12.00000	13.00000	0.19389	12.566	-0.0046208	-0.81417	5.4588E-6
-20.00000	-12.00000	13.00000	0.19810	12.566	-0.0052089	-0.86956	5.8245E-6
-19.00000	-12.00000	13.00000	0.20202	12.566	-0.0058847	-0.92959	6.2202E-6
-18.00000	-12.00000	13.00000	0.20556	12.566	-0.0066310	-0.99468	6.6483E-6
-17.00000	-12.00000	13.00000	0.20867	12.566	-0.0075610	-1.0653	7.1116E-6
-16.00000	-12.00000	13.00000	0.21125	12.566	-0.0085987	-1.1419	7.6131E-6
-15.00000	-12.00000	13.00000	0.21320	12.566	-0.0097995	-1.2251	8.1558E-6
-14.00000	-12.00000	13.00000	0.21444	12.566	-0.0111190	-1.3154	8.7428E-6
-13.00000	-12.00000	13.00000	0.21485	12.566	-0.012800	-1.4139	9.3773E-6
-12.00000	-12.00000	13.00000	0.21433	12.566	-0.014670	-1.5192	10.062E-6
-11.00000	-12.00000	13.00000	0.21279	12.566	-0.016832	-1.6339	10.800E-6
-10.00000	-12.00000	13.00000	0.21011	12.566	-0.019330	-1.7577	11.594E-6
-9.00000	-12.						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
7.00000	-12.00000	13.00000	0.039133	12.566	-0.10033	-4.4503	28.302E-6
8.00000	-12.00000	13.00000	0.032295	12.566	-0.10234	-4.5238	28.762E-6
9.00000	-12.00000	13.00000	0.026818	12.566	-0.10355	-4.5759	29.093E-6
10.00000	-12.00000	13.00000	0.022693	12.566	-0.10397	-4.6062	29.291E-6
11.00000	-12.00000	13.00000	0.019881	12.566	-0.10358	-4.6146	29.356E-6
12.00000	-12.00000	13.00000	0.018330	12.566	-0.10240	-4.6012	29.289E-6
13.00000	-12.00000	13.00000	0.017972	12.566	-0.10042	-4.5665	29.093E-6
14.00000	-12.00000	13.00000	0.018732	12.566	-0.097660	-4.5112	28.772E-6
15.00000	-12.00000	13.00000	0.020532	12.566	-0.094140	-4.4361	28.332E-6
16.00000	-12.00000	13.00000	0.023293	12.566	-0.089906	-4.3426	27.781E-6
17.00000	-12.00000	13.00000	0.026935	12.566	-0.085027	-4.2324	27.128E-6
18.00000	-12.00000	13.00000	0.031383	12.566	-0.079603	-4.1073	26.387E-6
19.00000	-12.00000	13.00000	0.036567	12.566	-0.073764	-3.9698	25.568E-6
20.00000	-12.00000	13.00000	0.042422	12.566	-0.067663	-3.8223	24.687E-6
21.00000	-12.00000	13.00000	0.048896	12.566	-0.061466	-3.6674	23.757E-6
22.00000	-12.00000	13.00000	0.055944	12.566	-0.055336	-3.5077	22.793E-6
23.00000	-12.00000	13.00000	0.063536	12.566	-0.049420	-3.3456	21.808E-6
24.00000	-12.00000	13.00000	0.071650	12.566	-0.043836	-3.1831	20.814E-6
25.00000	-12.00000	13.00000	0.080273	12.566	-0.038667	-3.0220	19.821E-6
26.00000	-12.00000	13.00000	0.089396	12.566	-0.033961	-2.8637	18.838E-6
27.00000	-12.00000	13.00000	0.099005	12.566	-0.029736	-2.7091	17.870E-6
28.00000	-12.00000	13.00000	0.10908	12.566	-0.025984	-2.5589	16.922E-6
29.00000	-12.00000	13.00000	0.11956	12.566	-0.022681	-2.4135	15.998E-6
30.00000	-12.00000	13.00000	0.13040	12.566	-0.019791	-2.2732	15.100E-6
31.00000	-12.00000	13.00000	0.14148	12.566	-0.017273	-2.1381	14.230E-6
32.00000	-12.00000	13.00000	0.15267	12.566	-0.015087	-2.0084	13.390E-6
33.00000	-12.00000	13.00000	0.16380	12.566	-0.013191	-1.8842	12.582E-6
34.00000	-12.00000	13.00000	0.17467	12.566	-0.011548	-1.7656	11.806E-6
35.00000	-12.00000	13.00000	0.18509	12.566	-0.010125	-1.6527	11.065E-6
36.00000	-12.00000	13.00000	0.19486	12.566	-0.0088915	-1.5456	10.360E-6
37.00000	-12.00000	13.00000	0.20379	12.566	-0.0078219	-1.4444	9.6922E-6
38.00000	-12.00000	13.00000	0.21173	12.566	-0.0068936	-1.3492	9.0618E-6
39.00000	-12.00000	13.00000	0.21856	12.566	-0.0060871	-1.2600	8.4695E-6
40.00000	-12.00000	13.00000	0.22421	12.566	-0.0053856	-1.1765	7.9147E-6
41.00000	-12.00000	13.00000	0.22864	12.566	-0.0047746	-1.0988	7.3968E-6
42.00000	-12.00000	13.00000	0.23187	12.566	-0.0042416	-1.0265	6.9145E-6
43.00000	-12.00000	13.00000	0.23392	12.566	-0.0037758	-0.95933	6.4662E-6
44.00000	-12.00000	13.00000	0.23486	12.566	-0.0033680	-0.89712	6.0502E-6
45.00000	-12.00000	13.00000	0.23477	12.566	-0.0030104	-0.83949	5.6645E-6
46.00000	-12.00000	13.00000	0.23375	12.566	-0.0026962	-0.78616	5.3071E-6
47.00000	-12.00000	13.00000	0.23189	12.566	-0.0024195	-0.73680	4.9761E-6
48.00000	-12.00000	13.00000	0.22930	12.566	-0.0021754	-0.69112	4.6695E-6
49.00000	-12.00000	13.00000	0.22607	12.566	-0.0019596	-0.64884	4.3856E-6
50.00000	-12.00000	13.00000	0.22230	12.566	-0.0017685	-0.60969	4.1224E-6
51.00000	-12.00000	13.00000	0.21809	12.566	-0.0015988	-0.57341	3.8784E-6
52.00000	-12.00000	13.00000	0.21350	12.566	-0.0014479	-0.53978	3.6521E-6
53.00000	-12.00000	13.00000	0.20862	12.566	-0.0013135	-0.50857	3.4420E-6
54.00000	-12.00000	13.00000	0.20352	12.566	-0.0011935	-0.47960	3.2469E-6
55.00000	-12.00000	13.00000	0.19825	12.566	-0.0010862	-0.45268	3.0654E-6
-25.00000	-11.00000	13.00000	0.17828	12.566	-0.0031367	-0.65753	4.4207E-6
-24.00000	-11.00000	13.00000	0.18313	12.566	-0.0035173	-0.70082	4.7082E-6
-23.00000	-11.00000	13.00000	0.18786	12.566	-0.0039531	-0.74774	5.0194E-6
-22.00000	-11.00000	13.00000	0.19244	12.566	-0.0044534	-0.79866	5.3564E-6
-21.00000	-11.00000	13.00000	0.19679	12.566	-0.0050293	-0.85396	5.7218E-6
-20.00000	-11.00000	13.00000	0.20087	12.566	-0.0056938	-0.91408	6.1183E-6
-19.00000	-11.00000	13.00000	0.20458	12.566	-0.0064627	-0.97950	6.5489E-6
-18.00000	-11.00000	13.00000	0.20785	12.566	-0.0073545	-1.0508	7.0166E-6
-17.00000	-11.00000	13.00000	0.21057	12.566	-0.0083914	-1.1284	7.5252E-6
-16.00000	-11.00000	13.00000	0.21265	12.566	-0.0095999	-1.2131	8.0782E-6
-15.00000	-11.00000	13.00000	0.21397	12.566	-0.011011	-1.3056	8.6798E-6
-14.00000	-11.00000	13.00000	0.21441	12.566	-0.012663	-1.4065	9.3341E-6
-13.00000	-11.00000	13.00000	0.21383	12.566	-0.014598	-1.5165	10.045E-6
-12.00000	-11.00000	13.00000	0.21210	12.566	-0.016867	-1.6366	10.818E-6
-11.00000	-11.00000	13.00000	0.20908	12.566	-0.019527	-1.7675	11.656E-6
-10.00000	-11.00000	13.00000	0.20464	12.566	-0.022643	-1.9099	12.563E-6
-9.00000	-11.00000	13.00000	0.19866	12.566	-0.026285	-2.0644	13.543E-6
-8.00000	-11.00000	13.00000	0.19105	12.566	-0.030522	-2.2315	14.597E-6
-7.00000	-11.00000	13.00000	0.18172	12.566	-0.035423	-2.4116	15.724E-6
-6.00000	-11.00000	13.00000	0.17066	12.566	-0.041043	-2.6043	16.924E-6
-5.00000	-11.00000	13.00000	0.15791	12.566	-0.047412	-2.8092	18.191E-6
-4.00000	-11.00000	13.00000	0.14357	12.566	-0.054526	-3.0249	19.516E-6
-3.00000	-11.00000	13.00000	0.12782	12.566	-0.062327	-3.2494	20.889E-6
-2.00000	-11.00000	13.00000	0.11091	12.566	-0.070696	-3.4802	22.291E-6
-1.00000	-11.00000	13.00000	0.093181	12.566	-0.079453	-3.7136	23.704E-6
0.00000	-11.00000	13.00000	0.075909	12.566	-0.088365	-3.9458	25.106E-6
1.00000	-11.00000	13.00000	0.056813	12.566	-0.097166	-4.1724	26.471E-6
2.00000	-11.00000	13.00000	0.039011	12.566	-0.10559	-4.3891	27.777E-6
3.00000	-11.00000	13.00000	0.021997	12.566	-0.11339	-4.5917	28.999E-6
4.00000	-11.00000	13.00000	0.0061122	12.566	-0.12036	-4.7765	30.117E-6
5.00000	-11.00000	13.00000	-0.0083677	12.566	-0.12638	-4.9406	31.113E-6
6.00000	-11.00000	13.00000	-0.021240	12.566	-0.13135	-5.0815	31.972E-6
7.00000	-11.00000	13.00000	-0.032375	12.566	-0.13524	-5.1976	32.685E-6
8.00000	-11.00000	13.00000	-0.041706	12.566	-0.13801	-5.2876	33.242E-6
9.00000	-11.00000	13.00000	-0.049221	12.566	-0.13968	-5.3509	33.640E-6
10.00000	-11.00000	13.00000	-0.054950	12.566	-0.14024	-5.3872	33.875E-6
11.00000	-11.00000	13.00000	-0.058951	12.566	-0.13971	-5.3963	33.948E-6
12.00000	-11.00000	13.00000	-0.061304	12.566	-0.13808	-5.3785	33.860E-6
13.00000	-11.00000	13.00000	-0.062103	12.566	-0.13535	-5.3343	33.615E-6
14.00000	-11.00000	13.00000	-0.061445	12.566	-0.13151	-5.2643	33.216E-6
15.00000	-11.00000	13.00000	-0.059432	12.566	-0.12659	-5.1699	32.673E-6
16.00000	-11.00000	13.00000	-0.056166	12.566	-0.12061	-5.0524	31.994E-6
17.00000	-11.00000	13.00000	-0.051746	12.566	-0.11369	-4.9140	31.192E-6
18.00000	-11.00000	13.00000	-0.046268	12.566	-0.10594	-4.7573	30.281E-6
19.00000	-11.00000	13.00000	-0.039820	12.566	-0.097572	-4.5	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Calc Level Z [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	-25.00000	-10.00000	13.00000	0.18117	12.566	-0.0033605	-0.68394	4.5963E-6
	-24.00000	-10.00000	13.00000	0.18603	12.566	-0.0037804	-0.73024	4.9035E-6
	-23.00000	-10.00000	13.00000	0.19075	12.566	-0.0042635	-0.78058	5.2369E-6
	-22.00000	-10.00000	13.00000	0.19526	12.566	-0.0048211	-0.83537	5.5993E-6
	-21.00000	-10.00000	13.00000	0.19951	12.566	-0.0054666	-0.89509	5.9934E-6
	-20.00000	-10.00000	13.00000	0.20341	12.566	-0.0062160	-0.96028	6.4227E-6
	-19.00000	-10.00000	13.00000	0.20687	12.566	-0.0070888	-1.0315	6.8906E-6
	-18.00000	-10.00000	13.00000	0.20979	12.566	-0.0081087	-1.1094	7.4012E-6
	-17.00000	-10.00000	13.00000	0.21207	12.566	-0.0093041	-1.1948	7.9589E-6
	-16.00000	-10.00000	13.00000	0.21356	12.566	-0.010710	-1.2883	8.5683E-6
	-15.00000	-10.00000	13.00000	0.21412	12.566	-0.012367	-1.3910	9.2347E-6
	-14.00000	-10.00000	13.00000	0.21361	12.566	-0.014327	-1.5037	9.9636E-6
	-13.00000	-10.00000	13.00000	0.21185	12.566	-0.016650	-1.6276	10.761E-6
	-12.00000	-10.00000	13.00000	0.20867	12.566	-0.019408	-1.7637	11.633E-6
	-11.00000	-10.00000	13.00000	0.20389	12.566	-0.022688	-1.9131	12.585E-6
	-10.00000	-10.00000	13.00000	0.19732	12.566	-0.026588	-2.0771	13.623E-6
	-9.00000	-10.00000	13.00000	0.18880	12.566	-0.031221	-2.2567	14.754E-6
	-8.00000	-10.00000	13.00000	0.17817	12.566	-0.036707	-2.4529	15.979E-6
	-7.00000	-10.00000	13.00000	0.16534	12.566	-0.043172	-2.6663	17.303E-6
	-6.00000	-10.00000	13.00000	0.15024	12.566	-0.050728	-2.8972	18.723E-6
	-5.00000	-10.00000	13.00000	0.12920	12.566	-0.059458	-3.1451	20.236E-6
	-4.00000	-10.00000	13.00000	0.11342	12.566	-0.069393	-3.4089	21.831E-6
	-3.00000	-10.00000	13.00000	0.092036	12.566	-0.080475	-3.6861	23.496E-6
	-2.00000	-10.00000	13.00000	0.069083	12.566	-0.092542	-3.9734	25.208E-6
	-1.00000	-10.00000	13.00000	0.045009	12.566	-0.10531	-4.2660	26.943E-6
	0.00000	-10.00000	13.00000	0.020348	12.566	-0.11840	-4.5589	28.670E-6
	1.00000	-10.00000	13.00000	-0.0043157	12.566	-0.13135	-4.8448	30.358E-6
	2.00000	-10.00000	13.00000	-0.028397	12.566	-0.14373	-5.1186	31.972E-6
	3.00000	-10.00000	13.00000	-0.051351	12.566	-0.15512	-5.3743	33.483E-6
	4.00000	-10.00000	13.00000	-0.072714	12.566	-0.16523	-5.6069	34.863E-6
	5.00000	-10.00000	13.00000	-0.0922126	12.566	-0.17388	-5.8122	36.089E-6
	6.00000	-10.00000	13.00000	-0.10933	12.566	-0.18091	-5.9883	37.143E-6
	7.00000	-10.00000	13.00000	-0.12419	12.566	-0.18636	-6.1322	38.014E-6
	8.00000	-10.00000	13.00000	-0.13663	12.566	-0.19022	-6.2432	38.692E-6
	9.00000	-10.00000	13.00000	-0.14667	12.566	-0.19253	-6.3206	39.172E-6
	10.00000	-10.00000	13.00000	-0.15436	12.566	-0.19332	-6.3642	39.453E-6
	11.00000	-10.00000	13.00000	-0.15982	12.566	-0.19258	-6.3739	39.535E-6
	12.00000	-10.00000	13.00000	-0.16314	12.566	-0.19032	-6.3502	39.419E-6
	13.00000	-10.00000	13.00000	-0.16446	12.566	-0.18651	-6.2935	39.111E-6
	14.00000	-10.00000	13.00000	-0.16391	12.566	-0.18111	-6.2046	38.615E-6
	15.00000	-10.00000	13.00000	-0.16162	12.566	-0.17412	-6.0842	37.940E-6
	16.00000	-10.00000	13.00000	-0.15772	12.566	-0.16556	-5.9359	37.100E-6
	17.00000	-10.00000	13.00000	-0.15233	12.566	-0.15552	-5.7603	36.108E-6
	18.00000	-10.00000	13.00000	-0.14557	12.566	-0.14421	-5.5615	34.983E-6
	19.00000	-10.00000	13.00000	-0.13756	12.566	-0.13191	-5.3435	33.748E-6
	20.00000	-10.00000	13.00000	-0.12840	12.566	-0.11904	-5.1106	32.425E-6
	21.00000	-10.00000	13.00000	-0.11816	12.566	-0.10602	-4.8688	31.040E-6
	22.00000	-10.00000	13.00000	-0.10691	12.566	-0.093325	-4.6219	29.616E-6
	23.00000	-10.00000	13.00000	-0.094687	12.566	-0.081319	-4.3748	28.176E-6
	24.00000	-10.00000	13.00000	-0.081495	12.566	-0.070287	-4.1309	26.738E-6
	25.00000	-10.00000	13.00000	-0.067322	12.566	-0.060389	-3.8939	25.319E-6
	26.00000	-10.00000	13.00000	-0.052132	12.566	-0.051682	-3.6632	23.928E-6
	27.00000	-10.00000	13.00000	-0.035901	12.566	-0.044135	-3.4420	22.574E-6
	28.00000	-10.00000	13.00000	-0.018616	12.566	-0.037664	-3.2299	21.260E-6
	29.00000	-10.00000	13.00000	-300.00E-6	12.566	-0.032158	-3.0269	19.988E-6
	30.00000	-10.00000	13.00000	0.018964	12.566	-0.027492	-2.8322	18.753E-6
	31.00000	-10.00000	13.00000	0.039020	12.566	-0.023545	-2.6468	17.572E-6
	32.00000	-10.00000	13.00000	0.059630	12.566	-0.020208	-2.4692	16.429E-6
	33.00000	-10.00000	13.00000	0.080474	12.566	-0.017384	-2.2998	15.331E-6
	34.00000	-10.00000	13.00000	0.10117	12.566	-0.014990	-2.1386	14.280E-6
	35.00000	-10.00000	13.00000	0.121310	12.566	-0.012959	-1.9850	13.280E-6
	36.00000	-10.00000	13.00000	0.14045	12.566	-0.011226	-1.8419	12.334E-6
	37.00000	-10.00000	13.00000	0.15824	12.566	-0.0097517	-1.7070	11.444E-6
	38.00000	-10.00000	13.00000	0.17438	12.566	-0.0084927	-1.5812	10.612E-6
	39.00000	-10.00000	13.00000	0.18862	12.566	-0.0074158	-1.4646	9.8378E-6
	40.00000	-10.00000	13.00000	0.20086	12.566	-0.0064931	-1.3569	9.1213E-6
	41.00000	-10.00000	13.00000	0.21105	12.566	-0.0057008	-1.2575	8.4605E-6
	42.00000	-10.00000	13.00000	0.21922	12.566	-0.0050188	-1.1663	7.8525E-6
	43.00000	-10.00000	13.00000	0.22546	12.566	-0.0044305	-1.0827	7.2941E-6
	44.00000	-10.00000	13.00000	0.22990	12.566	-0.0039215	-1.0061	6.7819E-6
	45.00000	-10.00000	13.00000	0.23269	12.566	-0.0034800	-0.93589	6.3124E-6
	46.00000	-10.00000	13.00000	0.23401	12.566	-0.0030960	-0.87162	5.8818E-6
	47.00000	-10.00000	13.00000	0.23403	12.566	-0.0027611	-0.81272	5.4870E-6
	48.00000	-10.00000	13.00000	0.23292	12.566	-0.0024683	-0.75872	5.1246E-6
	49.00000	-10.00000	13.00000	0.23083	12.566	-0.0022115	-0.70915	4.7918E-6
	50.00000	-10.00000	13.00000	0.22792	12.566	-0.0019518	-0.66361	4.4858E-6
	51.00000	-10.00000	13.00000	0.22432	12.566	-0.0017868	-0.62173	4.2042E-6
	52.00000	-10.00000	13.00000	0.22016	12.566	-0.0016111	-0.58317	3.9447E-6
	53.00000	-10.00000	13.00000	0.21556	12.566	-0.0014554	-0.54762	3.7054E-6
	54.00000	-10.00000	13.00000	0.21060	12.566	-0.0013173	-0.51480	3.4844E-6
	55.00000	-10.00000	13.00000	0.20537	12.566	-0.0011945	-0.48447	3.2801E-6
	-25.00000	-9.00000	13.00000	0.18396	12.566	-0.0035944	-0.71084	4.7750E-6
	-24.00000	-9.00000	13.00000	0.18881	12.566	-0.0040566	-0.76028	5.1027E-6
	-23.00000	-9.00000	13.00000	0.19349	12.566	-0.0045909	-0.81419	5.4595E-6
	-22.00000	-9.00000	13.00000	0.19792	12.566	-0.0052108	-0.87307	5.8485E-6
	-21.00000	-9.00000	13.00000	0.20202	12.566	-0.0059324	-0.93748	6.2730E-6
	-20.00000	-9.00000	13.00000	0.20571	12.566	-0.0067754	-1.0080	6.7371E-6
	-19.00000	-9.00000	13.00000	0.20887	12.566	-0.0077638	-1.0855	7.2449E-6
	-18.00000	-9.00000	13.00000	0.21139	12.566	-0.0089274	-1.1706	7.8015E-6
	-17.00000	-9.00000	13.00000	0.21313	12.566	-0.010302	-1.2642	8.4121E-6
	-16.00000	-9.00000	13.00000	0.21393	12.566	-0.011933	-1.3673	9.0828E-6
	-15.00000	-9.00000	13.00000	0.21361	12.566	-0.013876	-1.4813	9.8201E-6
	-14.00000	-9.00000	13.00000	0.21199	12.566	-0.016198	-1.6072	10.631E-6
	-13.00000	-9.00000	13.00000	0.20885	12.566	-0.018984	-1.7465	11.524E-6
	-12.00000	-9.00000	13.00000	0.20395	12.566	-0.022338	-1.9007	12.508E-6
	-11.00000	-9.00000	13.00000	0.19707	12.566	-0.026395	-2.0715	13.590E-6
	-10.00000	-9.00000	13.00000	0.18796	12.566	-0.031278	-2.2606	14.779E-6
	-9.00000	-9.00000	13.00000	0.17637	12.566	-0.037196	-2.4698	16.085E-6
	-8.00000	-9.00000	13.00000	0.16209	12.566	-0.044345	-2.7008	17.514E-6
	-7.00000	-9.00000	13.00000	0.14494	12.566	-0.052948	-2.9549	19.071E-6
	-6.00000	-9.00000	13.00000	0.12481	12.566	-0.063230	-3.2330	20.759E-6
	-5.00000	-9.00000	13.00000	0.10168	12.566	-0.075390	-3.5357	22.574E-6
	-4.00000	-9.00000	13.00000	0.075670	12.566	-0.089542	-3.8614	24.506E-6
	-3.00000	-9.00000	13.00000	0.047040	12.566	-0.10567	-4.2077	26.538E-6
	-2.00000	-9.00000	13.00000	0.016238	12.566	-0.12355	-4.5703	28.645E-6
	-1.00000	-9.00000	13.00000	-0.016125	12.566	-0.14274	-4.9422	30.792E-6
	0.00000	-9.00000	13.00000	-0.049298	12.566	-0.16257	-5.3169	32.939E-6
	1.00000	-9.00000	13.00000	-0.082450	12.566	-0.18225	-5.6842	35.042E-6
	2.00000	-9.00000	13.00000	-0.11475	12.566	-0.20098	-6.0355	37.055E-6
	3.00000	-9.00000	13.00000	-0.14543	12.566	-0.21807	-6.3627	38.937E-6
	4.00000	-9.00000	13.00000	-0.17387	12.566	-0.23300	-6.6590	40.65



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
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Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [m]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
24.00000	-9.00000	13.00000	-0.19202	12.566	-0.090853	-4.7585	30.598E-6
25.00000	-9.00000	13.00000	-0.17413	12.566	-0.076757	-4.4660	28.891E-6
26.00000	-9.00000	13.00000	-0.15487	12.566	-0.064634	-4.1859	27.229E-6
27.00000	-9.00000	13.00000	-0.13416	12.566	-0.054363	-3.9191	25.619E-6
28.00000	-9.00000	13.00000	-0.11192	12.566	-0.045751	-3.6653	24.064E-6
29.00000	-9.00000	13.00000	-0.088151	12.566	-0.038571	-3.4237	22.563E-6
30.00000	-9.00000	13.00000	-0.062923	12.566	-0.032600	-3.1935	21.115E-6
31.00000	-9.00000	13.00000	-0.036415	12.566	-0.027634	-2.9737	19.718E-6
32.00000	-9.00000	13.00000	-0.0089397	12.566	-0.023496	-2.7637	18.370E-6
33.00000	-9.00000	13.00000	0.019061	12.566	-0.020037	-2.5635	17.075E-6
34.00000	-9.00000	13.00000	0.047039	12.566	-0.017137	-2.3730	15.836E-6
35.00000	-9.00000	13.00000	0.074384	12.566	-0.014698	-2.1929	14.657E-6
36.00000	-9.00000	13.00000	0.10049	12.566	-0.012642	-2.0236	13.544E-6
37.00000	-9.00000	13.00000	0.12481	12.566	-0.010904	-1.8657	12.502E-6
38.00000	-9.00000	13.00000	0.14691	12.566	-0.0094338	-1.7193	11.534E-6
39.00000	-9.00000	13.00000	0.16649	12.566	-0.0081867	-1.5844	10.640E-6
40.00000	-9.00000	13.00000	0.18341	12.566	-0.0071270	-1.4608	9.8178E-6
41.00000	-9.00000	13.00000	0.19762	12.566	-0.0062242	-1.3478	9.0658E-6
42.00000	-9.00000	13.00000	0.20921	12.566	-0.0054531	-1.2448	8.3792E-6
43.00000	-9.00000	13.00000	0.21830	12.566	-0.0047925	-1.1511	7.7535E-6
44.00000	-9.00000	13.00000	0.22510	12.566	-0.0042427	-1.0658	7.1835E-6
45.00000	-9.00000	13.00000	0.22982	12.566	-0.0037351	-0.98826	6.6644E-6
46.00000	-9.00000	13.00000	0.23269	12.566	-0.0033115	-0.91763	6.1913E-6
47.00000	-9.00000	13.00000	0.23395	12.566	-0.0029440	-0.85326	5.7597E-6
48.00000	-9.00000	13.00000	0.23381	12.566	-0.0026241	-0.79454	5.3658E-6
49.00000	-9.00000	13.00000	0.23247	12.567	-0.0023447	-0.74091	5.0056E-6
50.00000	-9.00000	13.00000	0.23014	12.566	-0.0021001	-0.69183	4.6759E-6
51.00000	-9.00000	13.00000	0.22696	12.566	-0.0018852	-0.64688	4.3737E-6
52.00000	-9.00000	13.00000	0.22311	12.566	-0.0016961	-0.60563	4.0962E-6
53.00000	-9.00000	13.00000	0.21871	12.566	-0.0015291	-0.56773	3.8411E-6
54.00000	-9.00000	13.00000	0.21388	12.566	-0.0013813	-0.53288	3.6063E-6
55.00000	-9.00000	13.00000	0.20872	12.566	-0.0012503	-0.50072	3.3897E-6
-25.00000	-8.00000	13.00000	0.18663	12.566	-0.0038380	-0.73813	4.9561E-6
-24.00000	-8.00000	13.00000	0.19147	12.566	-0.0043452	-0.79082	5.3052E-6
-23.00000	-8.00000	13.00000	0.19608	12.566	-0.0049345	-0.84847	5.6863E-6
-22.00000	-8.00000	13.00000	0.20040	12.566	-0.0056216	-0.91163	6.1031E-6
-21.00000	-8.00000	13.00000	0.20433	12.566	-0.0064259	-0.98097	6.5596E-6
-20.00000	-8.00000	13.00000	0.20777	12.566	-0.0073714	-1.0572	7.0604E-6
-19.00000	-8.00000	13.00000	0.21058	12.566	-0.0084874	-1.1413	7.6107E-6
-18.00000	-8.00000	13.00000	0.21263	12.566	-0.0098109	-1.2340	8.2162E-6
-17.00000	-8.00000	13.00000	0.21375	12.566	-0.0113985	-1.3365	8.8938E-6
-16.00000	-8.00000	13.00000	0.21375	12.566	-0.013275	-1.4503	9.6207E-6
-15.00000	-8.00000	13.00000	0.21242	12.566	-0.015546	-1.5765	10.435E-6
-14.00000	-8.00000	13.00000	0.20951	12.566	-0.018291	-1.7170	11.337E-6
-13.00000	-8.00000	13.00000	0.20476	12.566	-0.021627	-1.8735	12.336E-6
-12.00000	-8.00000	13.00000	0.19788	12.566	-0.025700	-2.0481	13.444E-6
-11.00000	-8.00000	13.00000	0.18854	12.566	-0.030693	-2.2433	14.673E-6
-10.00000	-8.00000	13.00000	0.17641	12.566	-0.036838	-2.4615	16.036E-6
-9.00000	-8.00000	13.00000	0.16116	12.566	-0.044419	-2.7055	17.545E-6
-8.00000	-8.00000	13.00000	0.14247	12.566	-0.053782	-2.9782	19.213E-6
-7.00000	-8.00000	13.00000	0.12005	12.566	-0.065328	-3.2821	21.050E-6
-6.00000	-8.00000	13.00000	0.093686	12.566	-0.079491	-3.6195	23.062E-6
-5.00000	-8.00000	13.00000	0.063295	12.566	-0.096706	-3.9917	25.248E-6
-4.00000	-8.00000	13.00000	0.028956	12.566	-0.11731	-4.3983	27.600E-6
-3.00000	-8.00000	13.00000	-0.0090242	12.566	-0.14142	-4.8368	30.097E-6
-2.00000	-8.00000	13.00000	-0.050704	12.566	-0.168704	-5.3015	32.707E-6
-1.00000	-8.00000	13.00000	-0.093352	12.566	-0.19869	-5.7838	35.385E-6
0.00000	-8.00000	13.00000	-0.13779	12.566	-0.22991	-6.2717	38.074E-6
1.00000	-8.00000	13.00000	-0.18218	12.566	-0.26096	-6.7518	40.713E-6
2.00000	-8.00000	13.00000	-0.22531	12.566	-0.29032	-7.2106	43.242E-6
3.00000	-8.00000	13.00000	-0.26611	12.566	-0.31676	-7.6585	45.601E-6
4.00000	-8.00000	13.00000	-0.30370	12.566	-0.33951	-8.0183	47.744E-6
5.00000	-8.00000	13.00000	-0.33748	12.566	-0.35827	-8.3515	49.633E-6
6.00000	-8.00000	13.00000	-0.36709	12.566	-0.37309	-8.6319	51.242E-6
7.00000	-8.00000	13.00000	-0.39241	12.566	-0.38418	-8.8578	52.557E-6
8.00000	-8.00000	13.00000	-0.41346	12.566	-0.39185	-9.0292	53.568E-6
9.00000	-8.00000	13.00000	-0.43038	12.566	-0.39635	-9.1463	54.275E-6
10.00000	-8.00000	13.00000	-0.44336	12.566	-0.39786	-9.2098	54.677E-6
11.00000	-8.00000	13.00000	-0.45265	12.566	-0.39643	-9.2203	54.778E-6
12.00000	-8.00000	13.00000	-0.45849	12.566	-0.39201	-9.1782	54.581E-6
13.00000	-8.00000	13.00000	-0.46111	12.566	-0.38444	-9.0888	54.093E-6
14.00000	-8.00000	13.00000	-0.46074	12.566	-0.37344	-8.9375	53.320E-6
15.00000	-8.00000	13.00000	-0.45758	12.566	-0.35875	-8.7402	52.274E-6
16.00000	-8.00000	13.00000	-0.45184	12.566	-0.34012	-8.4936	50.974E-6
17.00000	-8.00000	13.00000	-0.44370	12.566	-0.31753	-8.2011	49.441E-6
18.00000	-8.00000	13.00000	-0.43336	12.566	-0.29127	-7.8681	47.707E-6
19.00000	-8.00000	13.00000	-0.42098	12.566	-0.26211	-7.5023	45.809E-6
20.00000	-8.00000	13.00000	-0.40676	12.566	-0.23126	-7.1134	43.787E-6
21.00000	-8.00000	13.00000	-0.39082	12.566	-0.20022	-6.7120	41.684E-6
22.00000	-8.00000	13.00000	-0.37329	12.566	-0.17051	-6.3089	39.543E-6
23.00000	-8.00000	13.00000	-0.35418	12.566	-0.14328	-5.9131	37.400E-6
24.00000	-8.00000	13.00000	-0.33349	12.566	-0.11931	-5.5314	35.288E-6
25.00000	-8.00000	13.00000	-0.31112	12.566	-0.098792	-5.1680	33.229E-6
26.00000	-8.00000	13.00000	-0.28692	12.566	-0.081631	-4.8246	31.237E-6
27.00000	-8.00000	13.00000	-0.26072	12.566	-0.067486	-4.5009	29.319E-6
28.00000	-8.00000	13.00000	-0.23238	12.566	-0.055928	-4.1958	27.474E-6
29.00000	-8.00000	13.00000	-0.20180	12.566	-0.046513	-3.9070	25.698E-6
30.00000	-8.00000	13.00000	-0.16902	12.566	-0.038846	-3.6327	23.983E-6
31.00000	-8.00000	13.00000	-0.13422	12.566	-0.032582	-3.3709	22.325E-6
32.00000	-8.00000	13.00000	-0.097810	12.566	-0.027439	-3.1204	20.723E-6
33.00000	-8.00000	13.00000	-0.060403	12.566	-0.023192	-2.8811	19.177E-6
34.00000	-8.00000	13.00000	-0.022799	12.566	-0.019677	-2.6532	17.694E-6
35.00000	-8.00000	13.00000	0.014096	12.566	-0.016729	-2.4377	16.285E-6
36.00000	-8.00000	13.00000	0.049375	12.566	-0.014272	-2.2358	14.958E-6
37.00000	-8.00000	13.00000	0.082239	12.566	-0.012215	-2.0484	13.722E-6
38.00000	-8.00000	13.00000	0.11208	12.566	-0.010490	-1.8760	12.582E-6
39.00000	-8.00000	13.00000	0.13850	12.566	-0.0090412	-1.7187	11.538E-6
40.00000	-8.00000	13.00000	0.16132	12.566	-0.0078216	-1.5758	10.588E-6
41.00000	-8.00000	13.00000	0.18056	12.566	-0.0067919	-1.4465	9.7275E-6
42.00000	-8.00000	13.00000	0.19635	12.566	-0.0059198	-1.3298	8.9490E-6
43.00000	-8.00000	13.00000	0.20892	12.566	-0.0051788	-1.2242	8.2456E-6
44.00000	-8.00000	13.00000	0.21856	12.566	-0.0045455	-1.1293	7.6101E-6
45.00000	-8.00000	13.00000	0.22558	12.566	-0.0040033	-1.0435	7.0355E-6
46.00000	-8.00000	13.00000	0.23031	12.566	-0.0035370	-0.96582	6.5153E-6
47.00000	-8.00000	13.00000	0.23303	12.566	-0.0031344	-0.89548	6.0438E-6
48.00000	-8.00000	13.00000	0.23404	12.566	-0.0027855	-0.83165	5.6156E-6
49.00000	-8.00000	13.00000	0.23359	12.566	-0.0024822	-0.77363	5.2261E-6
50.00000	-8.00000	13.00000	0.23193	12.566	-0.0022177	-0.72080	4.8711E-6
51.00000	-8.00000	13.00000	0.22927	12.566	-0.0019862	-0.67259	4.5470E-6
52.00000	-8.00000	13.00000	0.22578	12.566	-0.0017830	-0.62852	4.2506E-6
53.00000	-8.00000	13.00000	0.22164	12.566	-0.0016044	-0.58818	3.9790E-6
54.00000	-8.00000	13.00000	0.21697	12.566	-0.0014465	-0.55114	3.7297E-6
55.00000	-8.00000	13.00000	0.21191	12.566	-0.0013069	-0.51713	3.5005E-6
-25.00000	-7.00000	13.00000	0.18919	12.566	-0.0040901	-0.76569	5.1390E-6
-24.00000	-7.00000	13.00000	0.19398	12.566	-0.0046452	-0.82176	5.5101E-6
-23.00000	-7.00000	13.00000	0.19852	12.566	-0.00529		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [m]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-8.00000	-7.00000	13.00000	0.11902	12.566	-0.065424	-3.2879	21.088E-6
-7.00000	-7.00000	13.00000	0.090202	12.566	-0.081021	-3.6527	23.257E-6
-6.00000	-7.00000	13.00000	0.056169	12.566	-0.10075	-4.0642	25.660E-6
-5.00000	-7.00000	13.00000	0.016685	12.566	-0.12553	-4.5260	28.302E-6
-4.00000	-7.00000	13.00000	-0.028258	12.566	-0.15624	-5.0395	31.177E-6
-3.00000	-7.00000	13.00000	-0.078351	12.566	-0.19340	-5.6031	34.260E-6
-2.00000	-7.00000	13.00000	-0.13288	12.566	-0.23689	-6.2100	37.510E-6
-1.00000	-7.00000	13.00000	-0.19068	12.566	-0.28555	-6.8478	40.865E-6
0.00000	-7.00000	13.00000	-0.25020	12.566	-0.33707	-7.4985	44.249E-6
1.00000	-7.00000	13.00000	-0.30964	12.566	-0.38838	-8.1405	47.578E-6
2.00000	-7.00000	13.00000	-0.36721	12.566	-0.43640	-8.7522	50.768E-6
3.00000	-7.00000	13.00000	-0.42134	12.566	-0.47881	-9.3151	53.739E-6
4.00000	-7.00000	13.00000	-0.47082	12.566	-0.51439	-9.8160	56.428E-6
5.00000	-7.00000	13.00000	-0.51491	12.566	-0.54292	-10.247	58.786E-6
6.00000	-7.00000	13.00000	-0.55325	12.566	-0.56485	-10.606	60.783E-6
7.00000	-7.00000	13.00000	-0.58576	12.566	-0.58089	-10.892	62.404E-6
8.00000	-7.00000	13.00000	-0.61262	12.566	-0.59177	-11.106	63.642E-6
9.00000	-7.00000	13.00000	-0.63409	12.566	-0.59807	-11.251	64.500E-6
10.00000	-7.00000	13.00000	-0.65052	12.566	-0.60017	-11.327	64.982E-6
11.00000	-7.00000	13.00000	-0.66227	12.566	-0.59818	-11.338	65.093E-6
12.00000	-7.00000	13.00000	-0.66968	12.566	-0.59198	-11.282	64.839E-6
13.00000	-7.00000	13.00000	-0.67306	12.566	-0.58122	-11.160	64.225E-6
14.00000	-7.00000	13.00000	-0.67272	12.566	-0.56532	-10.971	63.262E-6
15.00000	-7.00000	13.00000	-0.66889	12.566	-0.54357	-10.715	61.961E-6
16.00000	-7.00000	13.00000	-0.66182	12.566	-0.51524	-10.393	60.343E-6
17.00000	-7.00000	13.00000	-0.65173	12.566	-0.47992	-10.008	58.440E-6
18.00000	-7.00000	13.00000	-0.63885	12.566	-0.43780	-9.5662	56.291E-6
19.00000	-7.00000	13.00000	-0.62342	12.566	-0.39010	-9.0792	53.945E-6
20.00000	-7.00000	13.00000	-0.60567	12.566	-0.33914	-8.5611	51.455E-6
21.00000	-7.00000	13.00000	-0.58582	12.566	-0.28796	-8.0291	48.873E-6
22.00000	-7.00000	13.00000	-0.56402	12.566	-0.23962	-7.4997	46.251E-6
23.00000	-7.00000	13.00000	-0.54032	12.566	-0.19638	-6.9869	43.638E-6
24.00000	-7.00000	13.00000	-0.51467	12.566	-0.15942	-6.5002	41.074E-6
25.00000	-7.00000	13.00000	-0.48689	12.566	-0.12887	-6.0442	38.590E-6
26.00000	-7.00000	13.00000	-0.45674	12.566	-0.10417	-5.6200	36.201E-6
27.00000	-7.00000	13.00000	-0.42390	12.566	-0.084470	-5.2254	33.913E-6
28.00000	-7.00000	13.00000	-0.38807	12.566	-0.068847	-4.8570	31.720E-6
29.00000	-7.00000	13.00000	-0.34901	12.566	-0.056459	-4.5104	29.609E-6
30.00000	-7.00000	13.00000	-0.30665	12.566	-0.046594	-4.1815	27.568E-6
31.00000	-7.00000	13.00000	-0.26116	12.566	-0.038681	-3.8670	25.585E-6
32.00000	-7.00000	13.00000	-0.21304	12.566	-0.032274	-3.5648	23.654E-6
33.00000	-7.00000	13.00000	-0.16314	12.566	-0.027037	-3.2741	21.779E-6
34.00000	-7.00000	13.00000	-0.11266	12.566	-0.022722	-2.9963	19.972E-6
35.00000	-7.00000	13.00000	-0.062974	12.566	-0.019149	-2.7333	18.252E-6
36.00000	-7.00000	13.00000	-0.015467	12.566	-0.016185	-2.4878	16.638E-6
37.00000	-7.00000	13.00000	0.028669	12.566	-0.013726	-2.2616	15.145E-6
38.00000	-7.00000	13.00000	0.068571	12.566	-0.011687	-2.0558	13.783E-6
39.00000	-7.00000	13.00000	0.10374	12.566	-0.0099933	-1.8700	12.551E-6
40.00000	-7.00000	13.00000	0.13401	12.566	-0.0085841	-1.7034	11.443E-6
41.00000	-7.00000	13.00000	0.15947	12.566	-0.0074073	-1.5545	10.452E-6
42.00000	-7.00000	13.00000	0.18039	12.566	-0.0064202	-1.4216	9.5648E-6
43.00000	-7.00000	13.00000	0.19715	12.566	-0.0055883	-1.3028	8.7719E-6
44.00000	-7.00000	13.00000	0.21018	12.566	-0.0048838	-1.1966	8.0621E-6
45.00000	-7.00000	13.00000	0.21993	12.566	-0.0042843	-1.1015	7.4256E-6
46.00000	-7.00000	13.00000	0.22681	12.566	-0.0037718	-1.0161	6.8536E-6
47.00000	-7.00000	13.00000	0.23124	12.566	-0.0033316	-0.93927	6.3385E-6
48.00000	-7.00000	13.00000	0.23358	12.566	-0.0029521	-0.86994	5.8734E-6
49.00000	-7.00000	13.00000	0.23417	12.566	-0.0026236	-0.80725	5.4525E-6
50.00000	-7.00000	13.00000	0.23330	12.566	-0.0023381	-0.75042	5.0707E-6
51.00000	-7.00000	13.00000	0.23122	12.566	-0.0020892	-0.69878	4.7235E-6
52.00000	-7.00000	13.00000	0.22817	12.566	-0.0018715	-0.65176	4.4072E-6
53.00000	-7.00000	13.00000	0.22433	12.566	-0.0016805	-0.60884	4.1184E-6
54.00000	-7.00000	13.00000	0.21986	12.566	-0.0015124	-0.56960	3.8542E-6
55.00000	-7.00000	13.00000	0.21492	12.566	-0.0013641	-0.53364	3.6120E-6
-25.00000	-6.00000	13.00000	0.19162	12.566	-0.0043495	-0.79342	5.3228E-6
-24.00000	-6.00000	13.00000	0.19636	12.566	-0.0049550	-0.85296	5.7165E-6
-23.00000	-6.00000	13.00000	0.20079	12.566	-0.0056647	-0.91848	6.1489E-6
-22.00000	-6.00000	13.00000	0.20482	12.566	-0.0060505	-0.99074	6.6246E-6
-21.00000	-6.00000	13.00000	0.20831	12.566	-0.0074896	-1.0706	7.1492E-6
-20.00000	-6.00000	13.00000	0.21112	12.566	-0.0086661	-1.1591	7.7288E-6
-19.00000	-6.00000	13.00000	0.21308	12.566	-0.0100703	-1.2574	8.3707E-6
-18.00000	-6.00000	13.00000	0.21401	12.566	-0.011766	-1.3670	9.0832E-6
-17.00000	-6.00000	13.00000	0.21365	12.566	-0.013816	-1.4893	9.8758E-6
-16.00000	-6.00000	13.00000	0.21174	12.566	-0.016315	-1.6264	10.760E-6
-15.00000	-6.00000	13.00000	0.20786	12.566	-0.019383	-1.7805	11.748E-6
-14.00000	-6.00000	13.00000	0.20195	12.566	-0.023177	-1.9542	12.855E-6
-13.00000	-6.00000	13.00000	0.19330	12.566	-0.027910	-2.1507	14.099E-6
-12.00000	-6.00000	13.00000	0.18151	12.566	-0.033860	-2.3738	15.498E-6
-11.00000	-6.00000	13.00000	0.16606	12.566	-0.041408	-2.6278	17.076E-6
-10.00000	-6.00000	13.00000	0.14635	12.566	-0.051065	-2.9180	18.858E-6
-9.00000	-6.00000	13.00000	0.12173	12.566	-0.063529	-3.2506	20.872E-6
-8.00000	-6.00000	13.00000	0.091522	12.566	-0.079715	-3.6324	23.145E-6
-7.00000	-6.00000	13.00000	0.055029	12.566	-0.10088	-4.0714	25.706E-6
-6.00000	-6.00000	13.00000	0.011621	12.566	-0.12861	-4.5758	28.579E-6
-5.00000	-6.00000	13.00000	-0.039196	12.566	-0.16485	-5.1533	31.777E-6
-4.00000	-6.00000	13.00000	-0.097641	12.566	-0.21170	-5.8098	35.296E-6
-3.00000	-6.00000	13.00000	-0.16350	12.566	-0.27095	-6.5463	39.107E-6
-2.00000	-6.00000	13.00000	-0.23592	12.566	-0.34317	-7.3561	43.153E-6
-1.00000	-6.00000	13.00000	-0.31331	12.566	-0.42662	-8.2216	47.348E-6
0.00000	-6.00000	13.00000	-0.39337	12.566	-0.51665	-9.1139	51.593E-6
1.00000	-6.00000	13.00000	-0.47332	12.566	-0.60645	-9.9967	55.777E-6
2.00000	-6.00000	13.00000	-0.55038	12.566	-0.69917	-10.833	59.790E-6
3.00000	-6.00000	13.00000	-0.62224	12.566	-0.76013	-11.594	63.528E-6
4.00000	-6.00000	13.00000	-0.68725	12.566	-0.81753	-12.261	66.901E-6
5.00000	-6.00000	13.00000	-0.74452	12.566	-0.86183	-12.826	69.846E-6
6.00000	-6.00000	13.00000	-0.79377	12.566	-0.89469	-13.287	72.324E-6
7.00000	-6.00000	13.00000	-0.83514	12.566	-0.91802	-13.650	74.320E-6
8.00000	-6.00000	13.00000	-0.86901	12.566	-0.93347	-13.918	75.835E-6
9.00000	-6.00000	13.00000	-0.89592	12.566	-0.94228	-14.097	76.875E-6
10.00000	-6.00000	13.00000	-0.91640	12.566	-0.94518	-14.191	77.451E-6
11.00000	-6.00000	13.00000	-0.93100	12.566	-0.94240	-14.200	77.573E-6
12.00000	-6.00000	13.00000	-0.94020	12.566	-0.93374	-14.126	77.247E-6
13.00000	-6.00000	13.00000	-0.94442	12.566	-0.91845	-13.968	76.482E-6
14.00000	-6.00000	13.00000	-0.94402	12.566	-0.89533	-13.724	75.285E-6
15.00000	-6.00000	13.00000	-0.93928	12.566	-0.86272	-13.390	737



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Calc Level Z [m]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
41.00000	-6.00000	13.00000	0.13401	12.566	-0.0080741	-1.6726	11.244E-6
42.00000	-6.00000	13.00000	0.16113	12.566	-0.0069555	-1.5206	10.229E-6
43.00000	-6.00000	13.00000	0.18288	12.566	-0.0060224	-1.3864	9.3332E-6
44.00000	-6.00000	13.00000	0.19990	12.566	-0.0052390	-1.2677	8.5394E-6
45.00000	-6.00000	13.00000	0.21280	12.566	-0.0045772	-1.1623	7.8341E-6
46.00000	-6.00000	13.00000	0.22218	12.566	-0.0040151	-1.0684	7.2053E-6
47.00000	-6.00000	13.00000	0.22857	12.566	-0.0035350	-0.98451	6.6429E-6
48.00000	-6.00000	13.00000	0.23243	12.566	-0.0031232	-0.90929	6.1382E-6
49.00000	-6.00000	13.00000	0.23420	12.566	-0.0027681	-0.84162	5.6839E-6
50.00000	-6.00000	13.00000	0.23422	12.566	-0.0024609	-0.78058	5.2739E-6
51.00000	-6.00000	13.00000	0.23282	12.566	-0.0021939	-0.72535	4.9026E-6
52.00000	-6.00000	13.00000	0.23026	12.566	-0.0019612	-0.67525	4.5656E-6
53.00000	-6.00000	13.00000	0.22677	12.566	-0.0017576	-0.62968	4.2590E-6
54.00000	-6.00000	13.00000	0.22255	12.566	-0.0015789	-0.58814	3.9793E-6
55.00000	-6.00000	13.00000	0.21776	12.566	-0.0014216	-0.55019	3.7237E-6
-25.00000	-5.00000	13.00000	0.19391	12.566	-0.0046149	-0.82117	5.5066E-6
-24.00000	-5.00000	13.00000	0.19859	12.566	-0.0052729	-0.88426	5.9235E-6
-23.00000	-5.00000	13.00000	0.20290	12.566	-0.0060476	-0.95388	6.3825E-6
-22.00000	-5.00000	13.00000	0.20674	12.566	-0.0069642	-1.0309	6.8891E-6
-21.00000	-5.00000	13.00000	0.20997	12.566	-0.0080545	-1.1163	7.4494E-6
-20.00000	-5.00000	13.00000	0.21242	12.566	-0.0093587	-1.2113	8.0708E-6
-19.00000	-5.00000	13.00000	0.21389	12.566	-0.010928	-1.3173	8.7614E-6
-18.00000	-5.00000	13.00000	0.21415	12.566	-0.012830	-1.4359	9.5312E-6
-17.00000	-5.00000	13.00000	0.21294	12.566	-0.015151	-1.5689	10.392E-6
-16.00000	-5.00000	13.00000	0.20992	12.566	-0.018004	-1.7189	11.356E-6
-15.00000	-5.00000	13.00000	0.20472	12.566	-0.021542	-1.8888	12.439E-6
-14.00000	-5.00000	13.00000	0.19690	12.566	-0.025969	-2.0808	13.661E-6
-13.00000	-5.00000	13.00000	0.18594	12.566	-0.031560	-2.3001	15.043E-6
-12.00000	-5.00000	13.00000	0.17125	12.566	-0.038697	-2.5512	16.609E-6
-11.00000	-5.00000	13.00000	0.15213	12.566	-0.047909	-2.8400	18.391E-6
-10.00000	-5.00000	13.00000	0.12780	12.566	-0.059930	-3.1797	20.421E-6
-9.00000	-5.00000	13.00000	0.097380	12.566	-0.075834	-3.5612	22.739E-6
-8.00000	-5.00000	13.00000	0.059889	12.566	-0.097092	-4.0131	25.386E-6
-7.00000	-5.00000	13.00000	0.014292	12.566	-0.12583	-4.5419	28.405E-6
-6.00000	-5.00000	13.00000	-0.040455	12.566	-0.16502	-5.1622	31.834E-6
-5.00000	-5.00000	13.00000	-0.10530	12.566	-0.21867	-5.8896	35.694E-6
-4.00000	-5.00000	13.00000	-0.18090	12.566	-0.29177	-6.7387	39.993E-6
-3.00000	-5.00000	13.00000	-0.26734	12.566	-0.38959	-7.7186	44.675E-6
-2.00000	-5.00000	13.00000	-0.36380	12.566	-0.51562	-8.8262	49.651E-6
-1.00000	-5.00000	13.00000	-0.46812	12.566	-0.66811	-10.038	54.795E-6
0.00000	-5.00000	13.00000	-0.57678	12.566	-0.83710	-11.308	59.981E-6
1.00000	-5.00000	13.00000	-0.68529	12.566	-1.0058	-12.562	65.100E-6
2.00000	-5.00000	13.00000	-0.78918	12.566	-1.1575	-13.741	70.043E-6
3.00000	-5.00000	13.00000	-0.88489	12.566	-1.2820	-14.795	74.679E-6
4.00000	-5.00000	13.00000	-0.97024	12.566	-1.3777	-15.697	78.878E-6
5.00000	-5.00000	13.00000	-1.0443	12.566	-1.4479	-16.444	82.539E-6
6.00000	-5.00000	13.00000	-1.1071	12.566	-1.4975	-17.043	85.601E-6
7.00000	-5.00000	13.00000	-1.1593	12.566	-1.5315	-17.504	88.052E-6
8.00000	-5.00000	13.00000	-1.2015	12.566	-1.5534	-17.840	89.898E-6
9.00000	-5.00000	13.00000	-1.2348	12.566	-1.5656	-18.061	91.154E-6
10.00000	-5.00000	13.00000	-1.2600	12.566	-1.5696	-18.170	91.841E-6
11.00000	-5.00000	13.00000	-1.2779	12.566	-1.5658	-18.181	91.973E-6
12.00000	-5.00000	13.00000	-1.2891	12.566	-1.5537	-18.085	91.562E-6
13.00000	-5.00000	13.00000	-1.2942	12.566	-1.5321	-17.881	90.614E-6
14.00000	-5.00000	13.00000	-1.2936	12.566	-1.4984	-17.564	89.142E-6
15.00000	-5.00000	13.00000	-1.2876	12.566	-1.4576	-17.127	87.166E-6
16.00000	-5.00000	13.00000	-1.2766	12.566	-1.3795	-16.562	84.738E-6
17.00000	-5.00000	13.00000	-1.2608	12.566	-1.2845	-15.865	81.932E-6
18.00000	-5.00000	13.00000	-1.2404	12.566	-1.1609	-15.043	78.853E-6
19.00000	-5.00000	13.00000	-1.2159	12.566	-1.0104	-14.116	75.605E-6
20.00000	-5.00000	13.00000	-1.1878	12.566	-0.84300	-13.120	72.241E-6
21.00000	-5.00000	13.00000	-1.1566	12.566	-0.67539	-12.107	68.761E-6
22.00000	-5.00000	13.00000	-1.1228	12.566	-0.52406	-11.125	65.162E-6
23.00000	-5.00000	13.00000	-1.0866	12.566	-0.39893	-10.212	61.490E-6
24.00000	-5.00000	13.00000	-1.0478	12.566	-0.30176	-9.3841	57.833E-6
25.00000	-5.00000	13.00000	-1.0059	12.566	-0.22907	-8.5446	54.276E-6
26.00000	-5.00000	13.00000	-0.96023	12.566	-0.17566	-7.9849	50.870E-6
27.00000	-5.00000	13.00000	-0.90991	12.566	-0.13654	-7.3920	47.625E-6
28.00000	-5.00000	13.00000	-0.85396	12.566	-0.10773	-6.8506	44.523E-6
29.00000	-5.00000	13.00000	-0.79143	12.566	-0.086245	-6.3461	41.521E-6
30.00000	-5.00000	13.00000	-0.72163	12.566	-0.069939	-5.8648	38.570E-6
31.00000	-5.00000	13.00000	-0.64428	12.566	-0.057272	-5.3944	35.623E-6
32.00000	-5.00000	13.00000	-0.55993	12.566	-0.047163	-4.9284	32.651E-6
33.00000	-5.00000	13.00000	-0.47020	12.566	-0.038873	-4.4649	29.659E-6
34.00000	-5.00000	13.00000	-0.37787	12.566	-0.031960	-4.0103	26.699E-6
35.00000	-5.00000	13.00000	-0.28635	12.566	-0.026205	-3.5768	23.860E-6
36.00000	-5.00000	13.00000	-0.19982	12.566	-0.021491	-3.1773	21.232E-6
37.00000	-5.00000	13.00000	-0.12050	12.566	-0.017699	-2.8201	18.873E-6
38.00000	-5.00000	13.00000	-0.050243	12.566	-0.014680	-2.5074	16.802E-6
39.00000	-5.00000	13.00000	0.010374	12.566	-0.012276	-2.2367	15.005E-6
40.00000	-5.00000	13.00000	0.061550	12.566	-0.010350	-2.0090	13.452E-6
41.00000	-5.00000	13.00000	0.10395	12.566	-0.0087962	-1.8016	12.108E-6
42.00000	-5.00000	13.00000	0.13848	12.566	-0.0075263	-1.6270	10.944E-6
43.00000	-5.00000	13.00000	0.16608	12.566	-0.0064798	-1.4751	9.9291E-6
44.00000	-5.00000	13.00000	0.18771	12.566	-0.0056098	-1.3423	9.0409E-6
45.00000	-5.00000	13.00000	0.20423	12.566	-0.0048409	-1.2256	8.2509E-6
46.00000	-5.00000	13.00000	0.21644	12.566	-0.0042658	-1.1225	7.5689E-6
47.00000	-5.00000	13.00000	0.22503	12.566	-0.0037436	-1.0310	6.9557E-6
48.00000	-5.00000	13.00000	0.23061	12.566	-0.0032977	-0.94950	6.4089E-6
49.00000	-5.00000	13.00000	0.23368	12.566	-0.0029151	-0.87659	5.9194E-6
50.00000	-5.00000	13.00000	0.23470	12.566	-0.0025853	-0.81111	5.4797E-6
51.00000	-5.00000	13.00000	0.23405	12.566	-0.0022997	-0.75216	5.0833E-6
52.00000	-5.00000	13.00000	0.23205	12.566	-0.0020515	-0.69888	4.7250E-6
53.00000	-5.00000	13.00000	0.22896	12.566	-0.0018350	-0.65058	4.4000E-6
54.00000	-5.00000	13.00000	0.22502	12.566	-0.0016455	-0.60669	4.1045E-6
55.00000	-5.00000	13.00000	0.22041	12.566	-0.0014791	-0.56671	3.8352E-6
-25.00000	-4.00000	13.00000	0.19608	12.566	-0.0048845	-0.84880	5.6896E-6
-24.00000	-4.00000	13.00000	0.20067	12.566	-0.0055970	-0.91549	6.1299E-6
-23.00000	-4.00000	13.00000	0.20485	12.566	-0.0064392	-0.98929	6.6160E-6
-22.00000	-4.00000	13.00000	0.20849	12.566	-0.0074401	-1.0712	7.1540E-6
-21.00000	-4.00000	13.00000	0.21142	12.566	-0.0086365	-1.1622	7.7510E-6
-20.00000	-4.00000	13.00000	0.21347	12.566	-0.010075	-1.2640	8.4152E-6
-19.00000	-4.00000	13.00000	0.21440	12.566	-0.011818	-1.3778	9.1563E-6
-18.00000	-4.00000	13.00000	0.21396	12.566	-0.013943	-1.5058	9.9855E-6
-17.00000	-4.00000	13.00000	0.21181	12.566	-0.016555	-1.6501	10.916E-6
-16.00000	-4.00000	13.00000	0.20760	12.566	-0.019794	-1.8131	11.964E-6
-15.00000	-4.00000	13.00000	0.20086	12.566	-0.023848	-1.9993	13.149E-6
-14.00000	-4.00000	13.00000	0.19107	12.566	-0.028975	-2.2116	14.492E-6
-13.00000	-4.00000	13.00000	0.17759	12.566	-0.035534	-2.4555	16.021E-6
-12.00000	-4.00000	13.00000	0.15970	12.566	-0.044029	-2.7371	17.768E-6
-11.00000	-4.00000	13.00000	0.13652	12.566	-0.055180	-3.0642	19.771E-6
-10.00000	-4.00000	13.00000	0.10702	12.566	-0.070047	-3.4466	22.075E-6
-9.00000	-4.00000	13.00000	0.070036	12.566	-0.090176	-3.8966	24.733E-6
-8.00000	-4.00000	13.00000	0.024197	12.566	-0.11790	-4.4298	27.803E-6
-7.00000	-4.00000	13.00000	-0.032022	12.566	-0.15675	-5.0660	31.347E-6
-6.00000	-4.00000	13.00000	-0.10028	12.566	-0.21210	-5.8296	35.422E-6
-5.00000	-4.00000	13.00000	-0.18229	1			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
9.00000	-4.00000	13.00000	-1.6783	12.566	-2.7770	-23.764	105.27E-6
10.00000	-4.00000	13.00000	-1.7088	12.566	-2.7824	-23.900	106.08E-6
11.00000	-4.00000	13.00000	-1.7303	12.566	-2.7772	-23.905	106.23E-6
12.00000	-4.00000	13.00000	-1.7437	12.566	-2.7607	-23.781	105.71E-6
13.00000	-4.00000	13.00000	-1.7497	12.566	-2.7304	-23.520	104.55E-6
14.00000	-4.00000	13.00000	-1.7488	12.566	-2.6816	-23.111	102.76E-6
15.00000	-4.00000	13.00000	-1.7413	12.566	-2.6069	-22.538	100.39E-6
16.00000	-4.00000	13.00000	-1.7274	12.566	-2.4952	-21.783	97.520E-6
17.00000	-4.00000	13.00000	-1.7073	12.566	-2.3320	-20.828	94.344E-6
18.00000	-4.00000	13.00000	-1.6813	12.566	-2.1037	-19.670	91.120E-6
19.00000	-4.00000	13.00000	-1.6499	12.566	-1.8074	-18.335	88.078E-6
20.00000	-4.00000	13.00000	-1.6138	12.566	-1.4648	-16.887	85.210E-6
21.00000	-4.00000	13.00000	-1.5742	12.566	-1.1218	-15.418	82.211E-6
22.00000	-4.00000	13.00000	-1.5317	12.566	-0.82449	-14.023	78.776E-6
23.00000	-4.00000	13.00000	-1.4869	12.566	-0.59443	-12.762	74.884E-6
24.00000	-4.00000	13.00000	-1.4394	12.566	-0.42875	-11.659	70.748E-6
25.00000	-4.00000	13.00000	-1.3885	12.566	-0.31347	-10.705	66.601E-6
26.00000	-4.00000	13.00000	-1.3331	12.566	-0.23395	-9.8776	62.586E-6
27.00000	-4.00000	13.00000	-1.2717	12.566	-0.17873	-9.1497	58.752E-6
28.00000	-4.00000	13.00000	-1.2027	12.566	-0.13976	-8.4935	55.073E-6
29.00000	-4.00000	13.00000	-1.1244	12.566	-0.11160	-7.8893	51.485E-6
30.00000	-4.00000	13.00000	-1.0353	12.566	-0.090799	-7.2941	47.894E-6
31.00000	-4.00000	13.00000	-0.93453	12.566	-0.074723	-6.7051	44.205E-6
32.00000	-4.00000	13.00000	-0.82209	12.566	-0.061691	-6.0992	40.339E-6
33.00000	-4.00000	13.00000	-0.70004	12.566	-0.050552	-5.4716	36.286E-6
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36.00000	-4.00000	13.00000	-0.32798	12.566	-0.025709	-3.6739	24.533E-6
37.00000	-4.00000	13.00000	-0.22117	12.566	-0.020542	-3.1968	21.384E-6
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41.00000	-4.00000	13.00000	0.069270	12.566	-0.0095766	-1.9417	13.048E-6
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43.00000	-4.00000	13.00000	0.14681	12.566	-0.0069591	-1.5687	10.558E-6
44.00000	-4.00000	13.00000	0.17368	12.566	-0.0059946	-1.4200	9.5643E-6
45.00000	-4.00000	13.00000	0.19428	12.566	-0.0051935	-1.2911	8.6998E-6
46.00000	-4.00000	13.00000	0.20965	12.566	-0.0045224	-1.1780	7.9425E-6
47.00000	-4.00000	13.00000	0.22068	12.566	-0.0039560	-1.0785	7.2752E-6
48.00000	-4.00000	13.00000	0.22813	12.566	-0.0034748	-0.99035	6.6839E-6
49.00000	-4.00000	13.00000	0.23265	12.566	-0.0030637	-0.91195	6.1576E-6
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52.00000	-4.00000	13.00000	0.23355	12.566	-0.0021421	-0.72252	4.8844E-6
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-23.00000	-3.00000	13.00000	0.20663	12.566	-0.0068364	-1.0245	6.8480E-6
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-21.00000	-3.00000	13.00000	0.21267	12.566	-0.0092311	-1.2082	8.0521E-6
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-19.00000	-3.00000	13.00000	0.21465	12.566	-0.012734	-1.4387	9.5526E-6
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-9.00000	-3.00000	13.00000	0.039972	12.566	-0.10654	-4.2542	26.837E-6
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-7.00000	-3.00000	13.00000	-0.081603	12.566	-0.19419	-5.6422	34.511E-6
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-4.00000	-3.00000	13.00000	-0.39448	12.566	-0.57523	-9.1998	50.980E-6
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2.00000	-3.00000	13.00000	-1.5336	12.566	-4.1592	-24.431	81.530E-6
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5.00000	-3.00000	13.00000	-1.9754	12.566	-5.0749	-29.675	98.561E-6
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14.00000	-3.00000	13.00000	-2.3508	12.566	-5.1856	-31.421	108.13E-6
15.00000	-3.00000	13.00000	-2.3413	12.566	-5.0774	-30.676	105.34E-6
16.00000	-3.00000	13.00000	-2.3237	12.566	-4.8977	-29.666	102.13E-6
17.00000	-3.00000	13.00000	-2.2982	12.566	-4.6117	-28.347	98.980E-6
18.00000	-3.00000	13.00000	-2.2646	12.566	-4.1700	-26.696	96.719E-6
19.00000	-3.00000	13.00000	-2.2237	12.566	-3.5397	-24.721	96.188E-6
20.00000	-3.00000	13.00000	-2.1766	12.566	-2.7655	-22.552	97.234E-6
21.00000	-3.00000	13.00000	-2.1253	12.566	-1.9909	-20.360	98.135E-6
22.00000	-3.00000	13.00000	-2.0714	12.566	-1.3595	-18.324	97.165E-6
23.00000	-3.00000	13.00000	-2.0158	12.566	-0.91577	-16.552	94.158E-6
24.00000	-3.00000	13.00000	-1.9580	12.566	-0.62693	-15.066	89.931E-6
25.00000	-3.00000	13.00000	-1.8967	12.566	-0.44312	-13.831	85.273E-6
26.00000	-3.00000	13.00000	-1.8301	12.566	-0.32527	-12.795	80.620E-6
27.00000	-3.00000	13.00000	-1.7559	12.566	-0.24801	-11.905	76.129E-6
28.00000	-3.00000	13.00000	-1.6717	12.566	-0.19590	-11.117	71.792E-6
29.00000	-3.00000	13.00000	-1.5746	12.566	-0.15954	-10.375	67.504E-6
30.00000	-3.00000	13.00000	-1.4617	12.566	-0.13306	-9.6505	63.102E-6
31.00000	-3.00000	13.00000	-1.3305	12.566	-0.11249	-8.8959	58.376E-6
32.00000	-3.00000	13.00000	-1.1796	12.566	-0.094800	-8.0690	53.098E-6
33.00000	-3.00000	13.00000	-1.0107	12.566	-0.077592	-7.1440	47.115E-6
34.00000	-3.00000	13.00000	-0.83084	12.566	-0.060126	-6.1490	40.711E-6
35.00000	-3.00000	13.00000	-0.65226	12.566	-0.044384	-5.1828	34.443E-6
36.00000	-3.00000	13.00000	-0.48709	12.566	-0.032546	-4.3456	28.975E-6
37.00000	-3.00000	13.00000	-0.34243	12.566	-0.024509	-3.6695	24.528E-6
38.00000	-3.00000	13.00000	-0.22011	12.566	-0.019080	-3.1350	20.996E-6
39.00000	-3.00000	13.00000	-0.11891	12.566	-0.015295	-2.7119	18.185E-6
40.00000	-3.00000	13.00000	-0.036376	12.566	-0.012521	-2.3712	15.917E-6
41.00000	-3.00000	13.00000	0.030183	12.566	-0.010416	-2.0925	14.060E-6
42.00000	-3.00000	13.00000	0.083315	12.566	-0.0087709	-1.8612	12.516E-6
43.00000	-3.00000	13.00000	0.12527	12.566	-0.0074574	-1.6665	11.215E-6
44.00000	-3.00000	13.00000	0.15798	12.566	-0.0063908	-1.5008	10.106E-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
-23.00000	-2.00000	13.00000	0.20826	12.566	-0.0072360	-1.0593	7.0770E-6
-22.00000	-2.00000	13.00000	0.21143	12.566	-0.0084132	-1.1510	7.6789E-6
-21.00000	-2.00000	13.00000	0.21373	12.566	-0.0098328	-1.2538	8.3506E-6
-20.00000	-2.00000	13.00000	0.21489	12.566	-0.011557	-1.3692	9.1026E-6
-19.00000	-2.00000	13.00000	0.21465	12.566	-0.013667	-1.4994	9.9474E-6
-18.00000	-2.00000	13.00000	0.21266	12.566	-0.016272	-1.6468	10.9002E-6
-17.00000	-2.00000	13.00000	0.20849	12.566	-0.019517	-1.8146	11.978E-6
-16.00000	-2.00000	13.00000	0.20166	12.566	-0.023601	-2.0064	13.202E-6
-15.00000	-2.00000	13.00000	0.19154	12.566	-0.028802	-2.2269	14.600E-6
-14.00000	-2.00000	13.00000	0.17742	12.566	-0.035510	-2.4820	16.203E-6
-13.00000	-2.00000	13.00000	0.15838	12.566	-0.044288	-2.7792	18.050E-6
-12.00000	-2.00000	13.00000	0.13336	12.566	-0.055963	-3.1279	20.190E-6
-11.00000	-2.00000	13.00000	0.10104	12.566	-0.071782	-3.5406	22.681E-6
-10.00000	-2.00000	13.00000	0.059787	12.566	-0.093674	-4.0339	25.598E-6
-9.00000	-2.00000	13.00000	0.0076322	12.566	-0.12471	-4.6299	29.028E-6
-8.00000	-2.00000	13.00000	-0.057870	12.566	-0.16996	-5.3592	33.077E-6
-7.00000	-2.00000	13.00000	-0.13974	12.566	-0.23804	-6.2642	37.856E-6
-6.00000	-2.00000	13.00000	-0.24170	12.566	-0.34424	-7.4050	43.464E-6
-5.00000	-2.00000	13.00000	-0.36837	12.566	-0.51657	-8.8676	49.915E-6
-4.00000	-2.00000	13.00000	-0.52530	12.566	-0.80760	-10.774	56.963E-6
-3.00000	-2.00000	13.00000	-0.71882	12.566	-1.3150	-13.289	63.736E-6
-2.00000	-2.00000	13.00000	-0.95471	12.566	-2.2017	-16.598	68.162E-6
-1.00000	-2.00000	13.00000	-1.2338	12.566	-3.6485	-20.796	67.189E-6
0.00000	-2.00000	13.00000	-1.5430	12.566	-5.6025	-25.646	60.288E-6
1.00000	-2.00000	13.00000	-1.8519	12.566	-7.5561	-30.483	53.300E-6
2.00000	-2.00000	13.00000	-2.1302	12.566	-9.0018	-34.639	52.066E-6
3.00000	-2.00000	13.00000	-2.3647	12.566	-9.8864	-37.876	56.048E-6
4.00000	-2.00000	13.00000	-2.5563	12.566	-10.391	-40.289	62.186E-6
5.00000	-2.00000	13.00000	-2.7105	12.566	-10.677	-42.058	68.393E-6
6.00000	-2.00000	13.00000	-2.8336	12.566	-10.843	-43.346	73.774E-6
7.00000	-2.00000	13.00000	-2.9310	12.566	-10.941	-44.268	78.061E-6
8.00000	-2.00000	13.00000	-3.0070	12.566	-10.998	-44.903	81.232E-6
9.00000	-2.00000	13.00000	-3.0652	12.566	-11.028	-45.302	83.344E-6
10.00000	-2.00000	13.00000	-3.1082	12.566	-11.037	-45.494	84.459E-6
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13.00000	-2.00000	13.00000	-3.1642	12.566	-10.942	-44.880	82.212E-6
14.00000	-2.00000	13.00000	-3.1619	12.566	-10.845	-44.222	79.710E-6
15.00000	-2.00000	13.00000	-3.1499	12.566	-10.680	-43.264	76.545E-6
16.00000	-2.00000	13.00000	-3.1278	12.566	-10.396	-41.926	73.233E-6
17.00000	-2.00000	13.00000	-3.0953	12.566	-9.9872	-40.111	71.070E-6
18.00000	-2.00000	13.00000	-3.0518	12.566	-9.0236	-37.739	72.765E-6
19.00000	-2.00000	13.00000	-2.9982	12.566	-7.6030	-34.849	82.119E-6
20.00000	-2.00000	13.00000	-2.9373	12.566	-5.6945	-31.675	99.524E-6
21.00000	-2.00000	13.00000	-2.8715	12.566	-3.7856	-28.476	116.77E-6
22.00000	-2.00000	13.00000	-2.8030	12.566	-2.3638	-25.510	125.63E-6
23.00000	-2.00000	13.00000	-2.7340	12.566	-1.4880	-23.010	126.50E-6
24.00000	-2.00000	13.00000	-2.6639	12.566	-0.98551	-21.009	123.13E-6
25.00000	-2.00000	13.00000	-2.5908	12.566	-0.69672	-19.419	118.20E-6
26.00000	-2.00000	13.00000	-2.5117	12.566	-0.52541	-18.131	112.92E-6
27.00000	-2.00000	13.00000	-2.4234	12.566	-0.41950	-17.052	107.72E-6
28.00000	-2.00000	13.00000	-2.3219	12.566	-0.35113	-16.103	102.65E-6
29.00000	-2.00000	13.00000	-2.2029	12.566	-0.30488	-15.216	97.548E-6
30.00000	-2.00000	13.00000	-2.0613	12.566	-0.27160	-14.321	92.126E-6
31.00000	-2.00000	13.00000	-1.8913	12.566	-0.24487	-13.333	85.932E-6
32.00000	-2.00000	13.00000	-1.6874	12.566	-0.21808	-12.131	78.285E-6
33.00000	-2.00000	13.00000	-1.4477	12.566	-0.18141	-10.571	68.394E-6
34.00000	-2.00000	13.00000	-1.1821	12.566	-0.12756	-8.6454	56.359E-6
35.00000	-2.00000	13.00000	-0.91788	12.566	-0.075771	-6.7526	44.508E-6
36.00000	-2.00000	13.00000	-0.68232	12.566	-0.045535	-5.2938	35.176E-6
37.00000	-2.00000	13.00000	-0.48538	12.566	-0.030409	-4.2668	28.481E-6
38.00000	-2.00000	13.00000	-0.32528	12.566	-0.022207	-3.5355	23.661E-6
39.00000	-2.00000	13.00000	-0.19670	12.566	-0.017178	-2.9950	20.077E-6
40.00000	-2.00000	13.00000	-0.094131	12.566	-0.013775	-2.5805	17.319E-6
41.00000	-2.00000	13.00000	-0.012738	12.566	-0.011309	-2.2527	15.134E-6
42.00000	-2.00000	13.00000	0.051490	12.566	-0.0094369	-1.9871	13.361E-6
43.00000	-2.00000	13.00000	0.10181	12.566	-0.0079702	-1.7676	11.894E-6
44.00000	-2.00000	13.00000	0.14087	12.566	-0.0067946	-1.5833	10.661E-6
45.00000	-2.00000	13.00000	0.17080	12.566	-0.0058367	-1.4266	9.6112E-6
46.00000	-2.00000	13.00000	0.19332	12.566	-0.0050459	-1.2919	8.7083E-6
47.00000	-2.00000	13.00000	0.20984	12.566	-0.0043863	-1.1750	7.9246E-6
48.00000	-2.00000	13.00000	0.22150	12.566	-0.0038315	-1.0728	7.2391E-6
49.00000	-2.00000	13.00000	0.22922	12.566	-0.0033615	-0.98291	6.6355E-6
50.00000	-2.00000	13.00000	0.23377	12.566	-0.0029608	-0.90333	6.1009E-6
51.00000	-2.00000	13.00000	0.23578	12.566	-0.0026173	-0.83254	5.6251E-6
52.00000	-2.00000	13.00000	0.23574	12.566	-0.0023214	-0.76928	5.1996E-6
53.00000	-2.00000	13.00000	0.23409	12.566	-0.0020653	-0.71251	4.8176E-6
54.00000	-2.00000	13.00000	0.23117	12.566	-0.0018429	-0.66138	4.4734E-6
55.00000	-2.00000	13.00000	0.22726	12.566	-0.0016489	-0.61517	4.1622E-6
-25.00000	-1.00000	13.00000	0.20174	12.566	-0.0056985	-0.92935	6.2224E-6
-24.00000	-1.00000	13.00000	0.20603	12.566	-0.0065804	-1.0069	6.7332E-6
-23.00000	-1.00000	13.00000	0.20972	12.566	-0.0076343	-1.0934	7.3014E-6
-22.00000	-1.00000	13.00000	0.21265	12.566	-0.0089016	-1.1901	7.9351E-6
-21.00000	-1.00000	13.00000	0.21460	12.566	-0.010436	-1.2986	8.6443E-6
-20.00000	-1.00000	13.00000	0.21530	12.566	-0.012307	-1.4210	9.4405E-6
-19.00000	-1.00000	13.00000	0.21444	12.566	-0.014608	-1.5594	10.338E-6
-18.00000	-1.00000	13.00000	0.21163	12.566	-0.017463	-1.7168	11.352E-6
-17.00000	-1.00000	13.00000	0.20640	12.566	-0.021041	-1.8965	12.505E-6
-16.00000	-1.00000	13.00000	0.19818	12.566	-0.025573	-2.1029	13.820E-6
-15.00000	-1.00000	13.00000	0.18628	12.566	-0.031387	-2.3414	15.328E-6
-14.00000	-1.00000	13.00000	0.16985	12.566	-0.038948	-2.6188	17.066E-6
-13.00000	-1.00000	13.00000	0.14785	12.566	-0.048938	-2.9440	19.079E-6
-12.00000	-1.00000	13.00000	0.11902	12.566	-0.062374	-3.3283	21.425E-6
-11.00000	-1.00000	13.00000	0.081762	12.566	-0.080823	-3.7870	24.177E-6
-10.00000	-1.00000	13.00000	0.034121	12.566	-0.10676	-4.3407	27.423E-6
-9.00000	-1.00000	13.00000	-0.026369	12.566	-0.14426	-5.0177	31.273E-6

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by	Date	Checked
MP		

Name	Location		Displacement		Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	26.00000	-1.00000	13.00000	-3.5017	12.566	-1.6917	-32.153	184.69E-6
	27.00000	-1.00000	13.00000	-3.3979	12.566	-1.5511	-30.862	178.77E-6
	28.00000	-1.00000	13.00000	-3.2776	12.566	-1.4638	-29.740	172.90E-6
	29.00000	-1.00000	13.00000	-3.1343	12.566	-1.4062	-28.684	166.88E-6
	30.00000	-1.00000	13.00000	-2.9594	12.566	-1.3651	-27.586	160.23E-6
	31.00000	-1.00000	13.00000	-2.7421	12.566	-1.3297	-26.278	152.03E-6
	32.00000	-1.00000	13.00000	-2.4671	12.566	-1.2825	-24.432	140.40E-6
	33.00000	-1.00000	13.00000	-2.1164	12.566	-1.1512	-21.251	121.40E-6
	34.00000	-1.00000	13.00000	-1.6882	12.566	-0.67255	-15.464	91.718E-6
	35.00000	-1.00000	13.00000	-1.2615	12.566	-0.19628	-9.7152	62.249E-6
	36.00000	-1.00000	13.00000	-0.91527	12.566	-0.072561	-6.6498	43.872E-6
	37.00000	-1.00000	13.00000	-0.64803	12.566	-0.039178	-5.0037	33.328E-6
	38.00000	-1.00000	13.00000	-0.44161	12.566	-0.026086	-3.9917	26.693E-6
	39.00000	-1.00000	13.00000	-0.28127	12.566	-0.019309	-3.3037	22.139E-6
	40.00000	-1.00000	13.00000	-0.15622	12.566	-0.015123	-2.8025	18.806E-6
	41.00000	-1.00000	13.00000	-0.058549	12.566	-0.012242	-2.4196	16.253E-6
	42.00000	-1.00000	13.00000	0.017661	12.566	-0.010121	-2.1166	14.230E-6
	43.00000	-1.00000	13.00000	0.076920	12.566	-0.0084909	-1.8706	12.585E-6
	44.00000	-1.00000	13.00000	0.12270	12.566	-0.0072017	-1.6668	11.221E-6
	45.00000	-1.00000	13.00000	0.15772	12.566	-0.0061609	-1.4953	10.073E-6
	46.00000	-1.00000	13.00000	0.18412	12.566	-0.0053079	-1.3491	9.0932E-6
	47.00000	-1.00000	13.00000	0.20360	12.566	-0.0046005	-1.2232	8.2488E-6
	48.00000	-1.00000	13.00000	0.21751	12.566	-0.0040082	-1.1137	7.5146E-6
	49.00000	-1.00000	13.00000	0.22694	12.566	-0.0035083	-1.0179	6.8714E-6
	50.00000	-1.00000	13.00000	0.23279	12.566	-0.0030837	-0.93352	6.3043E-6
	51.00000	-1.00000	13.00000	0.23578	12.566	-0.0027207	-0.85870	5.8014E-6
	52.00000	-1.00000	13.00000	0.23647	12.566	-0.0024089	-0.79207	5.3533E-6
	53.00000	-1.00000	13.00000	0.23535	12.566	-0.0021397	-0.73246	4.9522E-6
	54.00000	-1.00000	13.00000	0.23282	12.566	-0.0019064	-0.67892	4.5918E-6
	55.00000	-1.00000	13.00000	0.22917	12.566	-0.0017034	-0.63065	4.2667E-6
	-25.00000	0.00000	13.00000	0.20336	12.566	-0.0059639	-0.95484	6.3908E-6
	-24.00000	0.00000	13.00000	0.20753	12.566	-0.0069025	-1.0359	6.9246E-6
	-23.00000	0.00000	13.00000	0.21104	12.566	-0.0080275	-1.1265	7.5196E-6
	-22.00000	0.00000	13.00000	0.21372	12.566	-0.0093847	-1.2281	8.1848E-6
	-21.00000	0.00000	13.00000	0.21531	12.566	-0.011034	-1.3424	8.9309E-6
	-20.00000	0.00000	13.00000	0.21554	12.566	-0.013053	-1.4716	9.7708E-6
	-19.00000	0.00000	13.00000	0.21404	12.566	-0.015546	-1.6183	10.720E-6
	-18.00000	0.00000	13.00000	0.21040	12.566	-0.018653	-1.7855	11.797E-6
	-17.00000	0.00000	13.00000	0.20408	12.566	-0.022567	-1.9772	13.024E-6
	-16.00000	0.00000	13.00000	0.19446	12.566	-0.027553	-2.1982	14.430E-6
	-15.00000	0.00000	13.00000	0.18075	12.566	-0.033990	-2.4547	16.048E-6
	-14.00000	0.00000	13.00000	0.16198	12.566	-0.042422	-2.7546	17.921E-6
	-13.00000	0.00000	13.00000	0.13698	12.566	-0.053653	-3.1080	20.101E-6
	-12.00000	0.00000	13.00000	0.10425	12.566	-0.068904	-3.5284	22.657E-6
	-11.00000	0.00000	13.00000	0.061964	12.566	-0.090076	-4.0340	25.672E-6
	-10.00000	0.00000	13.00000	0.0077803	12.566	-0.12024	-4.6495	29.253E-6
	-9.00000	0.00000	13.00000	-0.061274	12.566	-0.16453	-5.4098	33.533E-6
	-8.00000	0.00000	13.00000	-0.14905	12.566	-0.23198	-6.3655	38.672E-6
	-7.00000	0.00000	13.00000	-0.26061	12.566	-0.33921	-7.5918	44.841E-6
	-6.00000	0.00000	13.00000	-0.40278	12.566	-0.51883	-9.2049	52.168E-6
	-5.00000	0.00000	13.00000	-0.58504	12.566	-0.83925	-11.391	60.525E-6
	-4.00000	0.00000	13.00000	-0.82105	12.566	-1.4550	-14.461	68.866E-6
	-3.00000	0.00000	13.00000	-1.1313	12.566	-2.7394	-18.944	73.157E-6
	-2.00000	0.00000	13.00000	-1.5468	12.566	-5.6040	-25.697	60.604E-6
	-1.00000	0.00000	13.00000	-2.1056	12.566	-11.862	-35.761	1.2026E-6
	0.00000	0.00000	13.00000	-2.8010	12.566	-22.478	-48.967	-125.96E-6
	1.00000	0.00000	13.00000	-3.4961	12.566	-33.094	-62.157	-253.22E-6
	2.00000	0.00000	13.00000	-4.0539	12.566	-39.350	-72.172	-312.93E-6
	3.00000	0.00000	13.00000	-4.4676	12.566	-42.212	-78.842	-326.00E-6
	4.00000	0.00000	13.00000	-4.7753	12.566	-43.492	-83.203	-322.45E-6
	5.00000	0.00000	13.00000	-5.0077	12.566	-44.103	-86.112	-315.09E-6
	6.00000	0.00000	13.00000	-5.1853	12.566	-44.415	-88.090	-308.00E-6
	7.00000	0.00000	13.00000	-5.3215	12.566	-44.584	-89.441	-302.24E-6
	8.00000	0.00000	13.00000	-5.4254	12.566	-44.677	-90.341	-297.99E-6
	9.00000	0.00000	13.00000	-5.5035	12.566	-44.723	-90.892	-295.19E-6
	10.00000	0.00000	13.00000	-5.5605	12.566	-44.738	-91.148	-293.73E-6
	11.00000	0.00000	13.00000	-5.5997	12.566	-44.724	-91.134	-293.55E-6
	12.00000	0.00000	13.00000	-5.6233	12.566	-44.678	-90.845	-294.58E-6
	13.00000	0.00000	13.00000	-5.6326	12.566	-44.586	-90.247	-296.79E-6
	14.00000	0.00000	13.00000	-5.6284	12.566	-44.418	-89.270	-300.02E-6
	15.00000	0.00000	13.00000	-5.6104	12.566	-44.108	-87.793	-303.75E-6
	16.00000	0.00000	13.00000	-5.5773	12.566	-43.504	-85.619	-306.21E-6
	17.00000	0.00000	13.00000	-5.5269	12.566	-42.240	-82.466	-301.85E-6
	18.00000	0.00000	13.00000	-5.4586	12.566	-39.442	-78.176	-273.86E-6
	19.00000	0.00000	13.00000	-5.3960	12.566	-33.727	-74.854	-179.58E-6
	20.00000	0.00000	13.00000	-5.6698	12.566	-44.978	-101.54	-227.78E-6
	21.00000	0.00000	13.00000	-5.9373	12.566	-56.227	-128.19	-276.17E-6
	22.00000	0.00000	13.00000	-5.8556	12.566	-50.511	-124.78	-182.48E-6
	23.00000	0.00000	13.00000	-5.7844	12.566	-47.711	-120.34	-155.49E-6
	24.00000	0.00000	13.00000	-5.6554	12.566	-46.442	-116.95	-152.60E-6
	25.00000	0.00000	13.00000	-5.5556	12.566	-45.832	-114.47	-157.06E-6
	26.00000	0.00000	13.00000	-5.4489	12.566	-45.514	-112.58	-163.43E-6
	27.00000	0.00000	13.00000	-5.3292	12.566	-45.335	-111.07	-170.10E-6
	28.00000	0.00000	13.00000	-5.1932	12.566	-45.227	-109.76	-176.80E-6
	29.00000	0.00000	13.00000	-5.0200	12.566	-45.157	-108.53	-183.79E-6
	30.00000	0.00000	13.00000	-4.8092	12.566	-45.107	-107.20	-191.82E-6
	31.00000	0.00000	13.00000	-4.5385	12.566	-45.061	-105.50	-202.44E-6
	32.00000	0.00000	13.00000	-4.1774	12.566	-44.976	-102.71	-219.74E-6
	33.00000	0.00000	13.00000	-3.6648	12.566	-44.419	-95.664	-256.43E-6
	34.00000	0.00000	13.00000	-2.6733	12.566	-22.542	-55.475	-82.883E-6
	35.00000	0.00000	13.00000	-1.6843	12.566	-0.66762	-15.329	90.893E-6
	36.00000	0.00000	13.00000	-1.1758	12.566	-0.11965	-8.4103	54.917E-6
	37.00000	0.00000	13.00000	-0.82311	12.566	-0.050579	-5.8434	38.822E-6
	38.00000	0.00000	13.00000	-0.56451	12.56			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Oasys

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.

Sheet No.

Rev.

J15249

Drg. Ref.

Made by

Date

Checked

MP

Name	Location	Displacement	Stresses				
X	Y	Z[Level]	Calc Level	Vert Stress	Sum Princ	Vert Strain	
[m]	[m]	[mOD]	[mOD]	[kN/m ²]	[kN/m ²]	[-]	
-6.00000	1.00000	13.00000	-0.48471	12.566	-0.60941	-10.115	56.521E-6
-5.00000	1.00000	13.00000	-0.69558	12.566	-1.0088	-12.677	65.826E-6
-4.00000	1.00000	13.00000	-0.97270	12.566	-1.8018	-16.361	74.726E-6
-3.00000	1.00000	13.00000	-1.3447	12.566	-3.5245	-21.903	77.273E-6
-2.00000	1.00000	13.00000	-1.8578	12.566	-7.5587	-30.569	53.834E-6
-1.00000	1.00000	13.00000	-2.5752	12.566	-16.826	-44.017	-44.064E-6
0.00000	1.00000	13.00000	-3.4983	12.566	-33.095	-62.194	-252.99E-6
1.00000	1.00000	13.00000	-4.4210	12.566	-49.364	-80.354	-462.03E-6
2.00000	1.00000	13.00000	-5.1372	12.566	-58.629	-93.750	-560.25E-6
3.00000	1.00000	13.00000	-5.6484	12.566	-62.661	-102.33	-584.24E-6
4.00000	1.00000	13.00000	-6.0174	12.566	-64.379	-107.74	-582.49E-6
5.00000	1.00000	13.00000	-6.2906	12.566	-65.166	-111.25	-574.65E-6
6.00000	1.00000	13.00000	-6.4962	12.566	-65.557	-113.59	-566.70E-6
7.00000	1.00000	13.00000	-6.6522	12.566	-65.763	-115.16	-560.20E-6
8.00000	1.00000	13.00000	-6.7704	12.566	-65.874	-116.19	-555.41E-6
9.00000	1.00000	13.00000	-6.8587	12.566	-65.929	-116.82	-552.26E-6
10.00000	1.00000	13.00000	-6.9228	12.566	-65.946	-117.11	-550.62E-6
11.00000	1.00000	13.00000	-6.9666	12.566	-65.930	-117.09	-550.42E-6
12.00000	1.00000	13.00000	-6.9928	12.566	-65.875	-116.76	-551.60E-6
13.00000	1.00000	13.00000	-7.0030	12.566	-65.765	-116.06	-554.08E-6
14.00000	1.00000	13.00000	-6.9977	12.566	-65.561	-114.92	-557.68E-6
15.00000	1.00000	13.00000	-6.9766	12.566	-65.173	-113.18	-561.66E-6
16.00000	1.00000	13.00000	-6.9377	12.566	-64.394	-110.56	-563.54E-6
17.00000	1.00000	13.00000	-6.8779	12.566	-62.699	-106.70	-555.21E-6
18.00000	1.00000	13.00000	-6.7970	12.566	-58.767	-101.41	-510.82E-6
19.00000	1.00000	13.00000	-6.7170	12.566	-50.466	-98.542	-360.53E-6
20.00000	1.00000	13.00000	-7.3434	12.566	-77.461	-154.63	-530.32E-6
21.00000	1.00000	13.00000	-7.9430	12.566	-104.45	-210.69	-700.32E-6
22.00000	1.00000	13.00000	-7.8617	12.566	-96.153	-207.73	-550.67E-6
23.00000	1.00000	13.00000	-7.7441	12.566	-92.218	-202.27	-507.37E-6
24.00000	1.00000	13.00000	-7.6302	12.566	-90.518	-198.16	-500.64E-6
25.00000	1.00000	13.00000	-7.5167	12.566	-89.732	-195.20	-504.71E-6
26.00000	1.00000	13.00000	-7.3960	12.566	-89.336	-193.00	-511.59E-6
27.00000	1.00000	13.00000	-7.2603	12.566	-89.118	-191.26	-519.01E-6
28.00000	1.00000	13.00000	-7.1006	12.566	-88.990	-189.78	-526.53E-6
29.00000	1.00000	13.00000	-6.9055	12.566	-88.908	-188.36	-534.50E-6
30.00000	1.00000	13.00000	-6.6588	12.566	-88.850	-186.81	-543.89E-6
31.00000	1.00000	13.00000	-6.3349	12.566	-88.793	-184.73	-556.94E-6
32.00000	1.00000	13.00000	-5.8877	12.566	-88.670	-180.99	-579.92E-6
33.00000	1.00000	13.00000	-5.2114	12.566	-87.687	-170.07	-634.28E-6
34.00000	1.00000	13.00000	-3.6584	12.566	-44.412	-95.482	-257.51E-6
35.00000	1.00000	13.00000	-2.1072	12.566	-1.1389	-20.939	119.51E-6
36.00000	1.00000	13.00000	-1.4364	12.566	-0.16672	-10.168	65.941E-6
37.00000	1.00000	13.00000	-0.99824	12.566	-0.06196	-6.6802	44.297E-6
38.00000	1.00000	13.00000	-0.68748	12.566	-0.034933	-4.9715	33.195E-6
39.00000	1.00000	13.00000	-0.45817	12.566	-0.023865	-3.9467	26.432E-6
40.00000	1.00000	13.00000	-0.28534	12.566	-0.017908	-3.2566	21.846E-6
41.00000	1.00000	13.00000	-0.15353	12.566	-0.014131	-2.7564	18.512E-6
42.00000	1.00000	13.00000	-0.052405	12.566	-0.011488	-2.3755	15.968E-6
43.00000	1.00000	13.00000	0.025316	12.566	-0.0095227	-2.0749	13.958E-6
44.00000	1.00000	13.00000	0.084930	12.566	-0.0080307	-1.8314	12.328E-6
45.00000	1.00000	13.00000	0.13039	12.566	-0.0067960	-1.6300	10.979E-6
46.00000	1.00000	13.00000	0.16471	12.566	-0.0058189	-1.4608	9.8449E-6
47.00000	1.00000	13.00000	0.19022	12.566	-0.0050165	-1.3168	8.8793E-6
48.00000	1.00000	13.00000	0.20872	12.566	-0.0043502	-1.1930	8.0482E-6
49.00000	1.00000	13.00000	0.22166	12.566	-0.0037918	-1.0855	7.3267E-6
50.00000	1.00000	13.00000	0.23016	12.566	-0.0033201	-0.99156	6.6954E-6
51.00000	1.00000	13.00000	0.23514	12.566	-0.0029192	-0.90885	6.1394E-6
52.00000	1.00000	13.00000	0.23732	12.566	-0.0025764	-0.83563	5.6470E-6
53.00000	1.00000	13.00000	0.23731	12.566	-0.0022818	-0.77049	5.2087E-6
54.00000	1.00000	13.00000	0.23556	12.566	-0.0020278	-0.71226	4.8167E-6
55.00000	1.00000	13.00000	0.23247	12.566	-0.0018069	-0.66001	4.4648E-6
-25.00000	2.00000	13.00000	0.20619	12.566	-0.0064711	-1.0027	6.7069E-6
-24.00000	2.00000	13.00000	0.21011	12.566	-0.0075194	-1.0905	7.2846E-6
-23.00000	2.00000	13.00000	0.21326	12.566	-0.0087823	-1.1891	7.9308E-6
-22.00000	2.00000	13.00000	0.21542	12.566	-0.010314	-1.3000	8.6561E-6
-21.00000	2.00000	13.00000	0.21631	12.566	-0.012187	-1.4254	9.4733E-6
-20.00000	2.00000	13.00000	0.21559	12.566	-0.014494	-1.5678	10.397E-6
-19.00000	2.00000	13.00000	0.21284	12.566	-0.017362	-1.7303	11.447E-6
-18.00000	2.00000	13.00000	0.20755	12.566	-0.020963	-1.9166	12.644E-6
-17.00000	2.00000	13.00000	0.19909	12.566	-0.025536	-2.1315	14.016E-6
-16.00000	2.00000	13.00000	0.18670	12.566	-0.031413	-2.3809	15.597E-6
-15.00000	2.00000	13.00000	0.16940	12.566	-0.039073	-2.6726	17.430E-6
-14.00000	2.00000	13.00000	0.14603	12.566	-0.049214	-3.0162	19.566E-6
-13.00000	2.00000	13.00000	0.11508	12.566	-0.062883	-3.4249	22.074E-6
-12.00000	2.00000	13.00000	0.074697	12.566	-0.081692	-3.9159	25.038E-6
-11.00000	2.00000	13.00000	0.022501	12.566	-0.10820	-4.5131	28.569E-6
-10.00000	2.00000	13.00000	-0.044554	12.566	-0.14661	-5.2495	32.806E-6
-9.00000	2.00000	13.00000	-0.13044	12.566	-0.20414	-6.1729	37.927E-6
-8.00000	2.00000	13.00000	-0.24040	12.566	-0.29376	-7.3536	44.146E-6
-7.00000	2.00000	13.00000	-0.39056	12.566	-0.44011	-8.8996	51.697E-6
-6.00000	2.00000	13.00000	-0.56384	12.566	-0.69313	-10.983	60.733E-6
-5.00000	2.00000	13.00000	-0.80159	12.566	-1.1616	-13.892	70.985E-6
-4.00000	2.00000	13.00000	-1.1166	12.566	-2.1021	-18.124	80.608E-6
-3.00000	2.00000	13.00000	-1.5434	12.566	-4.1634	-24.572	82.407E-6
-2.00000	2.00000	13.00000	-2.1133	12.566	-9.0059	-34.768	52.865E-6
-1.00000	2.00000	13.00000	-2.9767	12.566	-20.074	-50.696	-64.976E-6
0.00000	2.00000	13.00000	-4.0583	12.566	-39.353	-72.257	-312.41E-6
1.00000	2.00000	13.00000	-5.1395	12.566	-58.631	-93.799	-559.96E-6
2.00000	2.00000	13.00000	-5.9766	12.566	-69.698	-109.67	-678.14E-6
3.00000	2.00000	13.00000	-6.5694	12.566	-74.537	-119.77	-708.27E-6
4.00000	2.00000	13.00000	-6.9930	12.566	-76.594	-126.08	-707.32E-6
5.00000	2.00000	13.00000	-7.3036	12.566	-77.527	-130.13	-698.83E-6
6.00000	2.00000	13.00000	-7.5356	12.566	-77.987	-132.80	-690.02E-6
7.00000	2.00000	13.00000	-7.7104	12.566	-78.226	-134.57	-682.80E-6
8.00000							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location		Displacement		Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	43.00000	2.00000	13.00000	-42.974E-6	12.566	-0.010015	-2.1725	14.613E-6
	44.00000	2.00000	13.00000	0.066266	12.566	-0.0083852	-1.9099	12.855E-6
	45.00000	2.00000	13.00000	0.11680	12.566	-0.0070984	-1.6942	11.410E-6
	46.00000	2.00000	13.00000	0.15498	12.566	-0.0060618	-1.5139	10.202E-6
	47.00000	2.00000	13.00000	0.18343	12.566	-0.0052139	-1.3613	9.1783E-6
	48.00000	2.00000	13.00000	0.20418	12.566	-0.0045121	-1.2305	8.3007E-6
	49.00000	2.00000	13.00000	0.21882	12.566	-0.0039256	-1.1174	7.5416E-6
	50.00000	2.00000	13.00000	0.22862	12.566	-0.0034316	-1.0189	6.8795E-6
	51.00000	2.00000	13.00000	0.23458	12.566	-0.0030126	-0.93241	6.2982E-6
	52.00000	2.00000	13.00000	0.23751	12.566	-0.0026551	-0.85605	5.7847E-6
	53.00000	2.00000	13.00000	0.23803	12.566	-0.0023484	-0.78827	5.3286E-6
	54.00000	2.00000	13.00000	0.23669	12.566	-0.0020840	-0.72782	4.9217E-6
	55.00000	2.00000	13.00000	0.23388	12.566	-0.0018552	-0.67367	4.5571E-6
	-25.00000	3.00000	13.00000	0.20741	12.566	-0.0067079	-1.0247	6.8522E-6
	-24.00000	3.00000	13.00000	0.21121	12.566	-0.0078079	-1.1157	7.4503E-6
	-23.00000	3.00000	13.00000	0.21418	12.566	-0.0091359	-1.2179	8.1205E-6
	-22.00000	3.00000	13.00000	0.21609	12.566	-0.010750	-1.3333	8.8740E-6
	-21.00000	3.00000	13.00000	0.21664	12.566	-0.012728	-1.4639	9.7244E-6
	-20.00000	3.00000	13.00000	0.21546	12.566	-0.015172	-1.6125	10.688E-6
	-19.00000	3.00000	13.00000	0.21210	12.566	-0.018217	-1.7824	11.785E-6
	-18.00000	3.00000	13.00000	0.20602	12.566	-0.022052	-1.9777	13.038E-6
	-17.00000	3.00000	13.00000	0.19654	12.566	-0.026935	-2.2035	14.479E-6
	-16.00000	3.00000	13.00000	0.18283	12.566	-0.033232	-2.4663	16.142E-6
	-15.00000	3.00000	13.00000	0.16383	12.566	-0.041465	-2.7745	18.076E-6
	-14.00000	3.00000	13.00000	0.13827	12.566	-0.052405	-3.1387	20.336E-6
	-13.00000	3.00000	13.00000	0.10451	12.566	-0.067205	-3.5733	22.899E-6
	-12.00000	3.00000	13.00000	0.060519	12.566	-0.087651	-4.0974	26.154E-6
	-11.00000	3.00000	13.00000	0.0036728	12.566	-0.11658	-4.7372	29.926E-6
	-10.00000	3.00000	13.00000	-0.069390	12.566	-0.15869	-5.5295	34.469E-6
	-9.00000	3.00000	13.00000	-0.16307	12.566	-0.22204	-6.5273	39.979E-6
	-8.00000	3.00000	13.00000	-0.28321	12.566	-0.32111	-7.8094	46.696E-6
	-7.00000	3.00000	13.00000	-0.43776	12.566	-0.48361	-9.4967	54.880E-6
	-6.00000	3.00000	13.00000	-0.63784	12.566	-0.76534	-11.782	64.704E-6
	-5.00000	3.00000	13.00000	-0.89950	12.566	-1.2876	-14.987	75.878E-6
	-4.00000	3.00000	13.00000	-1.2470	12.566	-2.3340	-19.668	86.389E-6
	-3.00000	3.00000	13.00000	-1.7187	12.566	-4.1114	-26.805	88.474E-6
	-2.00000	3.00000	13.00000	-2.3752	12.566	-9.8925	-38.059	57.173E-6
	-1.00000	3.00000	13.00000	-3.2953	12.566	-21.769	-55.516	-66.778E-6
	0.00000	3.00000	13.00000	-4.4745	12.566	-42.217	-78.987	-325.12E-6
	1.00000	3.00000	13.00000	-5.6531	12.566	-62.665	-102.44	-583.57E-6
	2.00000	3.00000	13.00000	-6.5718	12.566	-74.540	-119.84	-707.89E-6
	3.00000	3.00000	13.00000	-7.2260	12.566	-79.817	-130.99	-739.81E-6
	4.00000	3.00000	13.00000	-7.6942	12.566	-82.090	-137.98	-738.62E-6
	5.00000	3.00000	13.00000	-8.0369	12.566	-83.129	-142.46	-729.31E-6
	6.00000	3.00000	13.00000	-8.2923	12.566	-83.641	-145.41	-719.67E-6
	7.00000	3.00000	13.00000	-8.4843	12.566	-83.908	-147.37	-711.77E-6
	8.00000	3.00000	13.00000	-8.6285	12.566	-84.051	-148.65	-705.97E-6
	9.00000	3.00000	13.00000	-8.7357	12.566	-84.122	-149.42	-702.17E-6
	10.00000	3.00000	13.00000	-8.8131	12.566	-84.143	-149.77	-700.21E-6
	11.00000	3.00000	13.00000	-8.8657	12.566	-84.122	-149.74	-699.99E-6
	12.00000	3.00000	13.00000	-8.8970	12.566	-84.053	-149.32	-701.43E-6
	13.00000	3.00000	13.00000	-8.9089	12.566	-83.911	-148.46	-704.44E-6
	14.00000	3.00000	13.00000	-8.9019	12.566	-83.646	-147.03	-708.76E-6
	15.00000	3.00000	13.00000	-8.8754	12.566	-83.138	-144.82	-713.42E-6
	16.00000	3.00000	13.00000	-8.8268	12.566	-82.109	-141.48	-715.12E-6
	17.00000	3.00000	13.00000	-8.7517	12.566	-79.867	-136.50	-703.24E-6
	18.00000	3.00000	13.00000	-8.6488	12.566	-74.713	-129.58	-644.98E-6
	19.00000	3.00000	13.00000	-8.5647	12.566	-63.914	-124.91	-455.88E-6
	20.00000	3.00000	13.00000	-9.1595	12.566	-87.189	-180.45	-553.30E-6
	21.00000	3.00000	13.00000	-9.7459	12.566	-110.46	-235.95	-650.96E-6
	22.00000	3.00000	13.00000	-9.6365	12.566	-99.662	-231.16	-462.60E-6
	23.00000	3.00000	13.00000	-9.4900	12.566	-94.504	-224.05	-405.59E-6
	24.00000	3.00000	13.00000	-9.3501	12.566	-92.257	-218.78	-395.56E-6
	25.00000	3.00000	13.00000	-9.2119	12.566	-91.220	-215.04	-399.81E-6
	26.00000	3.00000	13.00000	-9.0655	12.566	-90.701	-212.31	-407.86E-6
	27.00000	3.00000	13.00000	-8.9004	12.566	-90.421	-210.17	-416.69E-6
	28.00000	3.00000	13.00000	-8.7049	12.566	-90.257	-208.36	-425.73E-6
	29.00000	3.00000	13.00000	-8.4638	12.566	-90.154	-206.63	-435.42E-6
	30.00000	3.00000	13.00000	-8.1553	12.566	-90.081	-204.70	-447.04E-6
	31.00000	3.00000	13.00000	-7.7455	12.566	-90.010	-202.07	-463.54E-6
	32.00000	3.00000	13.00000	-7.1745	12.566	-89.857	-197.33	-492.85E-6
	33.00000	3.00000	13.00000	-6.3167	12.566	-88.761	-184.15	-560.24E-6
	34.00000	3.00000	13.00000	-4.5155	12.566	-45.024	-104.77	-206.71E-6
	35.00000	3.00000	13.00000	-2.7164	12.566	-1.2906	-25.443	147.13E-6
	36.00000	3.00000	13.00000	-1.8647	12.566	-0.20655	-12.446	80.664E-6
	37.00000	3.00000	13.00000	-1.3042	12.566	-0.076461	-7.9903	52.936E-6
	38.00000	3.00000	13.00000	-0.90953	12.566	-0.041784	-5.8057	38.744E-6
	39.00000	3.00000	13.00000	-0.62125	12.566	-0.027751	-4.5181	30.250E-6
	40.00000	3.00000	13.00000	-0.40605	12.566	-0.020397	-3.6693	24.610E-6
	41.00000	3.00000	13.00000	-0.24327	12.566	-0.015858	-3.0664	20.591E-6
	42.00000	3.00000	13.00000	-0.13918	12.566	-0.012751	-2.6152	17.577E-6
	43.00000	3.00000	13.00000	-0.024257	12.566	-0.010480	-2.2646	15.232E-6
	44.00000	3.00000	13.00000	0.048349	12.566	-0.0087475	-1.9842	13.355E-6
	45.00000	3.00000	13.00000	0.10368	12.566	-0.0073856	-1.7550	11.819E-6
	46.00000	3.00000	13.00000	0.14553	12.566	-0.0062925	-1.5643	10.541E-6
	47.00000	3.00000	13.00000	0.16768	12.566	-0.0054013	-1.4034	9.4618E-6
	48.00000	3.00000	13.00000	0.19968	12.566	-0.0046568	-1.2660	8.5401E-6
	49.00000	3.00000	13.00000	0.21597	12.566	-0.0040526	-1.1477	7.7451E-6
	50.00000	3.00000	13.00000	0.22703	12.566	-0.0035372	-1.0448	7.0538E-6
	51.00000	3.00000	13.00000	0.23393	12.566	-0.0031010	-0.95468	6.4483E-6
	52.00000	3.00000	13.00000	0.23757	12.566	-0.0027294	-0.87533	5.9146E-6
	53.00000	3.00000	13.00000	0.23863	12.566	-0.0024112	-0.80504	5.4417E-6
	54.00000	3.00000	13.00000</					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Oasys

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.

Sheet No.

Rev.

J15249

Drg. Ref.

Made byMP

Date

Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
11.00000	4.00000	13.00000	-9.4615	12.566	-86.667	-158.19	-694.41E-6
12.00000	4.00000	13.00000	-9.4951	12.566	-86.592	-157.74	-695.96E-6
13.00000	4.00000	13.00000	-9.5079	12.566	-86.439	-156.81	-699.21E-6
14.00000	4.00000	13.00000	-9.5004	12.566	-86.153	-155.26	-703.88E-6
15.00000	4.00000	13.00000	-9.4719	12.566	-85.607	-152.89	-708.94E-6
16.00000	4.00000	13.00000	-9.4197	12.566	-84.511	-149.30	-710.98E-6
17.00000	4.00000	13.00000	-9.3391	12.566	-82.145	-143.95	-699.06E-6
18.00000	4.00000	13.00000	-9.2288	12.566	-76.778	-136.53	-639.82E-6
19.00000	4.00000	13.00000	-9.1352	12.566	-65.645	-131.23	-448.20E-6
20.00000	4.00000	13.00000	-9.7191	12.566	-88.488	-186.05	-541.69E-6
21.00000	4.00000	13.00000	-10.294	12.566	-111.33	-240.83	-635.44E-6
22.00000	4.00000	13.00000	-10.173	12.566	-100.20	-235.41	-444.59E-6
23.00000	4.00000	13.00000	-10.016	12.566	-94.825	-227.78	-386.68E-6
24.00000	4.00000	13.00000	-9.8662	12.566	-92.454	-222.13	-376.72E-6
25.00000	4.00000	13.00000	-9.7178	12.566	-91.349	-218.12	-381.46E-6
26.00000	4.00000	13.00000	-9.5603	12.566	-90.792	-215.18	-390.14E-6
27.00000	4.00000	13.00000	-9.3827	12.566	-90.489	-212.88	-399.61E-6
28.00000	4.00000	13.00000	-9.1722	12.566	-90.313	-210.93	-409.28E-6
29.00000	4.00000	13.00000	-8.9125	12.566	-90.202	-209.08	-419.65E-6
30.00000	4.00000	13.00000	-8.5804	12.566	-90.123	-207.02	-432.07E-6
31.00000	4.00000	13.00000	-8.1404	12.566	-90.047	-204.23	-449.60E-6
32.00000	4.00000	13.00000	-7.5312	12.566	-89.890	-199.25	-480.30E-6
33.00000	4.00000	13.00000	-6.6267	12.566	-88.788	-185.79	-549.58E-6
34.00000	4.00000	13.00000	-4.7731	12.566	-45.043	-106.05	-198.33E-6
35.00000	4.00000	13.00000	-2.9218	12.566	-1.3024	-26.374	153.24E-6
36.00000	4.00000	13.00000	-2.0238	12.566	-0.21321	-13.094	84.952E-6
37.00000	4.00000	13.00000	-1.4257	12.566	-0.080280	-8.4418	55.937E-6
38.00000	4.00000	13.00000	-1.0017	12.566	-0.044104	-6.1267	40.887E-6
39.00000	4.00000	13.00000	-0.69103	12.566	-0.029259	-4.7528	31.820E-6
40.00000	4.00000	13.00000	-0.45885	12.566	-0.021438	-3.8456	25.792E-6
41.00000	4.00000	13.00000	-0.28316	12.566	-0.016610	-3.2021	21.501E-6
42.00000	4.00000	13.00000	-0.14924	12.566	-0.013314	-2.7218	18.293E-6
43.00000	4.00000	13.00000	-0.046808	12.566	-0.010912	-2.3498	15.804E-6
44.00000	4.00000	13.00000	0.031557	12.566	-0.0090851	-2.0533	13.819E-6
45.00000	4.00000	13.00000	0.091314	12.566	-0.0076539	-1.8117	12.200E-6
46.00000	4.00000	13.00000	0.13657	12.566	-0.0065084	-1.6113	10.857E-6
47.00000	4.00000	13.00000	0.17044	12.566	-0.0055767	-1.4427	9.7267E-6
48.00000	4.00000	13.00000	0.19536	12.566	-0.0048096	-1.2993	8.7636E-6
49.00000	4.00000	13.00000	0.21319	12.566	-0.0041713	-1.1759	7.9352E-6
50.00000	4.00000	13.00000	0.22542	12.566	-0.0036359	-1.0689	7.2164E-6
51.00000	4.00000	13.00000	0.23233	12.566	-0.0031835	-0.97545	6.5883E-6
52.00000	4.00000	13.00000	0.23754	12.566	-0.0027988	-0.89330	6.0358E-6
53.00000	4.00000	13.00000	0.23910	12.566	-0.0024699	-0.82066	5.5470E-6
54.00000	4.00000	13.00000	0.23851	12.566	-0.0021872	-0.75611	5.1125E-6
55.00000	4.00000	13.00000	0.23624	12.566	-0.0019431	-0.69849	4.7245E-6
-25.00000	5.00000	13.00000	0.20947	12.566	-0.001357	-1.0640	7.1117E-6
-24.00000	5.00000	13.00000	0.21303	12.566	-0.0083297	-1.1607	7.7467E-6
-23.00000	5.00000	13.00000	0.21567	12.566	-0.0097761	-1.2697	8.4601E-6
-22.00000	5.00000	13.00000	0.21711	12.566	-0.011541	-1.3929	9.2646E-6
-21.00000	5.00000	13.00000	0.21703	12.566	-0.013710	-1.5329	10.175E-6
-20.00000	5.00000	13.00000	0.21501	12.566	-0.016401	-1.6928	11.211E-6
-19.00000	5.00000	13.00000	0.21054	12.566	-0.019767	-1.8762	12.392E-6
-18.00000	5.00000	13.00000	0.20302	12.566	-0.024023	-2.0877	13.749E-6
-17.00000	5.00000	13.00000	0.19167	12.566	-0.029465	-2.3333	15.312E-6
-16.00000	5.00000	13.00000	0.17555	12.566	-0.036511	-2.6203	17.126E-6
-15.00000	5.00000	13.00000	0.15347	12.566	-0.045764	-2.9582	19.241E-6
-14.00000	5.00000	13.00000	0.12395	12.566	-0.058107	-3.3594	21.725E-6
-13.00000	5.00000	13.00000	0.085144	12.566	-0.074873	-3.8403	24.662E-6
-12.00000	5.00000	13.00000	0.034698	12.566	-0.098118	-4.4229	28.160E-6
-11.00000	5.00000	13.00000	-0.030390	12.566	-0.13112	-5.1375	32.359E-6
-10.00000	5.00000	13.00000	-0.11399	12.566	-0.17929	-6.0265	37.437E-6
-9.00000	5.00000	13.00000	-0.22118	12.566	-0.25181	-7.1510	43.623E-6
-8.00000	5.00000	13.00000	-0.35867	12.566	-0.36527	-8.6012	51.193E-6
-7.00000	5.00000	13.00000	-0.53557	12.566	-0.55080	-10.515	60.452E-6
-6.00000	5.00000	13.00000	-0.76447	12.566	-0.87066	-13.111	71.611E-6
-5.00000	5.00000	13.00000	-1.0634	12.566	-1.4576	-16.746	84.392E-6
-4.00000	5.00000	13.00000	-1.4590	12.566	-2.6159	-22.026	96.710E-6
-3.00000	5.00000	13.00000	-1.9922	12.566	-5.0865	-30.000	100.54E-6
-2.00000	5.00000	13.00000	-2.7258	12.566	-10.689	-42.388	70.388E-6
-1.00000	5.00000	13.00000	-3.7382	12.566	-23.052	-61.293	-53.629E-6
0.00000	5.00000	13.00000	-5.0196	12.566	-44.116	-86.427	-313.21E-6
1.00000	5.00000	13.00000	-6.3004	12.566	-65.178	-111.54	-572.92E-6
2.00000	5.00000	13.00000	-7.3112	12.566	-77.539	-130.38	-697.34E-6
3.00000	5.00000	13.00000	-8.0420	12.566	-83.138	-142.66	-728.17E-6
4.00000	5.00000	13.00000	-8.5712	12.566	-85.603	-150.47	-725.32E-6
5.00000	5.00000	13.00000	-8.9613	12.566	-86.753	-155.53	-714.32E-6
6.00000	5.00000	13.00000	-9.2530	12.566	-87.329	-158.88	-703.24E-6
7.00000	5.00000	13.00000	-9.4726	12.566	-87.632	-161.12	-694.21E-6
8.00000	5.00000	13.00000	-9.6377	12.566	-87.795	-162.58	-687.59E-6
9.00000	5.00000	13.00000	-9.7603	12.566	-87.876	-163.46	-683.26E-6
10.00000	5.00000	13.00000	-9.8468	12.566	-87.901	-163.85	-681.05E-6
11.00000	5.00000	13.00000	-9.9030	12.566	-87.927	-163.92	-680.91E-6
12.00000	5.00000	13.00000	-9.9447	12.566	-87.797	-163.34	-682.46E-6
13.00000	5.00000	13.00000	-9.9583	12.566	-87.635	-162.35	-685.91E-6
14.00000	5.00000	13.00000	-9.9504	12.566	-87.334	-160.71	-690.89E-6
15.00000	5.00000	13.00000	-9.9204	12.566	-86.764	-158.20	-696.34E-6
16.00000	5.00000	13.00000	-9.8654	12.566	-85.625	-154.42	-698.81E-6
17.00000	5.00000	13.00000	-9.7807	12.566	-83.191	-148.82	-687.24E-6
18.00000	5.00000	13.00000	-9.6648	12.566	-77.719	-141.07	-628.13E-6
19.00000	5.00000	13.00000	-9.5645	12.566	-66.441	-135.36	-436.29E-6
20.00000	5.00000	13.00000	-10.141	12.566	-89.109	-189.73	-529.26E-6
21.00000	5.00000	13.00000	-10.707	12.566	-111.78	-244.06	-622.51E-6
22.00000	5.00000	13.00000	-10.578	12.566	-100.50	-238.23	-431.47E-6
23.00000	5.00000	13.00000	-10.413	12.566	-95.019	-230.26	-373.76E-6
24.00000	5.00000	13.00000	-10.254	12.566	-92.580	-224.34	-364.26E-6
25.00000	5.00000	13.00000	-10.097	12.566	-91.434	-220.12	-369.56E-6
26.00000	5.00000	13.00000	-9.9300	12.566	-90.850	-217.01	-378.83E-6
27.00000	5.00000	13.00000	-9.7416	12.566	-90.531	-214.58	-388.86E-6
28.00000	5.00000	13.00000	-9.5183	12.566	-90.344	-212.52	-399.09E-6
29.00000	5.00000	13.00000	-9.2431	12.566	-90.227	-210.57	-410.03E-6
30.00000	5.00000	13.00000	-8.8921	12.566	-90.144	-208.41	-423.06E-6
31.00000	5.00000	13.00000	-8.4290	12.566	-90.064	-205.49	-441.31E-6
32.00000	5.00000	13.00000	-7.7920	12.566	-89.904	-200.38	-472.89E-6
33.00000	5.00000	13.00000	-6.8554	12.566	-88.799	-186.76	-543.21E-6
34.00000	5.00000	13.00000	-4.9673	12.566	-45.051	-106.84	-193.11E-6
35.00000	5.00000	13.00000	-3.0814	12.566	-1.9814	-26.991	157.33E-6
36.00000	5.00000	13.00000	-2.1518	12.566	-0.21721	-13.561	88.052E-6
37.00000	5.00000	13.00000	-1.5264	12.566	-0.082928	-8.7907	58.263E-6
38.00000	5.00000	13.00000	-1.0801	12.566	-0.045893	-6.3887	42.637E-6
39.00000	5.00000	13.00000	-0.75160	12.566	-0.030507	-4.9520	33.153E-6
40.00000	5.00000	13.00000	-0.50540	12.566	-0.022347	-3.9994	26.822E-6
41.00000	5.00000	13.00000	-0.31877	12.566	-0.017277	-3.2226	22.309E-6
42.00000	5.00000	13.00000	-0.17635	12.566	-0.013820	-2.8177	18.936E-6
43.00000	5.00000	13.00000	-0.067304	12.566	-0.011305	-2.4270	16.323E-6
44.00000	5.00000	13.00000	0.016190	12.566	-0.0093942	-2.1162	14.242E-6
45.00000	5.00000	13.00000	0.079926	12.566	-0.0079003	-1.8635	12.549E-6
46.00000	5.00000	13.00000	0.12826	12.566	-0.0067070	-1.6544	11.147E-6
47.00000	5.00000	13.00000	0.16453	12.566	-0.0057383	-1.4789	9.9700E-6
48.00000	5.00000	13.00000	0.19129	12.566	-0.0049420	-1.3298	8.9692E-6
49.00000	5.00000	13.00000					

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Oasys

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.

Sheet No.

Rev.

J15249

Drg. Ref.

Made byMP

Date

Checked

Name	Location	Displacement	Stresses			
X	Y	Z [Level]	Calc Level	Vert Stress	Sum Princ	Vert Strain
[m]	[m]	[mod]	[mod]	[kN/m²]	[kN/m²]	[-]
-21.00000	6.00000	13.00000	0.21713	12.566	-0.014139	-1.5629
-20.00000	6.00000	13.00000	0.21473	12.566	-0.016937	-1.7276
-19.00000	6.00000	13.00000	0.20978	12.566	-0.020443	-1.9169
-18.00000	6.00000	13.00000	0.20163	12.566	-0.024891	-2.1356
-17.00000	6.00000	13.00000	0.18946	12.566	-0.030564	-2.3898
-16.00000	6.00000	13.00000	0.17228	12.566	-0.037929	-2.6872
-15.00000	6.00000	13.00000	0.14886	12.566	-0.047612	-3.0380
-14.00000	6.00000	13.00000	0.11764	12.566	-0.060541	-3.4551
-13.00000	6.00000	13.00000	0.076665	12.566	-0.078815	-3.9557
-12.00000	6.00000	13.00000	0.023472	12.566	-0.10249	-4.5630
-11.00000	6.00000	13.00000	-0.045092	12.566	-0.13709	-5.3088
-10.00000	6.00000	13.00000	-0.13309	12.566	-0.18754	-6.2374
-9.00000	6.00000	13.00000	-0.24582	12.566	-0.26343	-7.4127
-8.00000	6.00000	13.00000	-0.39030	12.566	-0.39197	-8.9286
-7.00000	6.00000	13.00000	-0.57596	12.566	-0.57489	-10.928
-6.00000	6.00000	13.00000	-0.81585	12.566	-0.90609	-13.634
-5.00000	6.00000	13.00000	-1.1284	12.566	-1.5104	-17.414
-4.00000	6.00000	13.00000	-1.5408	12.566	-2.6948	-22.882
-3.00000	6.00000	13.00000	-2.2541	12.566	-5.2093	-31.093
-2.00000	6.00000	13.00000	-2.8513	12.566	-10.860	-43.774
-1.00000	6.00000	13.00000	-3.8901	12.566	-23.292	-63.020
0.00000	6.00000	13.00000	-5.1996	12.566	-44.434	-88.524
1.00000	6.00000	13.00000	-6.5086	12.566	-65.576	-114.01
2.00000	6.00000	13.00000	-7.5457	12.566	-78.005	-133.18
3.00000	6.00000	13.00000	-8.3000	12.566	-83.658	-145.75
4.00000	6.00000	13.00000	-8.8491	12.566	-86.161	-153.79
5.00000	6.00000	13.00000	-9.2556	12.566	-87.337	-159.03
6.00000	6.00000	13.00000	-9.5605	12.566	-87.956	-162.52
7.00000	6.00000	13.00000	-9.7906	12.566	-88.243	-166.85
8.00000	6.00000	13.00000	-9.9637	12.566	-88.413	-166.37
9.00000	6.00000	13.00000	-10.092	12.566	-88.497	-167.29
10.00000	6.00000	13.00000	-10.186	12.566	-88.523	-167.71
11.00000	6.00000	13.00000	-10.249	12.566	-88.456	-167.47
12.00000	6.00000	13.00000	-10.287	12.566	-88.414	-167.17
13.00000	6.00000	13.00000	-10.301	12.566	-88.247	-166.13
14.00000	6.00000	13.00000	-10.293	12.566	-87.935	-164.43
15.00000	6.00000	13.00000	-10.262	12.566	-87.348	-161.81
16.00000	6.00000	13.00000	-10.204	12.566	-86.233	-157.90
17.00000	6.00000	13.00000	-10.117	12.566	-83.712	-152.12
18.00000	6.00000	13.00000	-9.9967	12.566	-78.187	-144.14
19.00000	6.00000	13.00000	-9.8915	12.566	-66.840	-138.17
20.00000	6.00000	13.00000	-10.462	12.566	-89.430	-192.26
21.00000	6.00000	13.00000	-10.222	12.566	-112.02	-246.31
22.00000	6.00000	13.00000	-10.887	12.566	-100.67	-240.21
23.00000	6.00000	13.00000	-10.715	12.566	-95.141	-232.01
24.00000	6.00000	13.00000	-10.549	12.566	-92.664	-225.89
25.00000	6.00000	13.00000	-10.385	12.566	-91.490	-221.51
26.00000	6.00000	13.00000	-10.210	12.566	-90.216	-218.28
27.00000	6.00000	13.00000	-10.012	12.566	-90.560	-215.75
28.00000	6.00000	13.00000	-9.7784	12.566	-90.366	-213.60
29.00000	6.00000	13.00000	-9.4907	12.566	-90.243	-211.56
30.00000	6.00000	13.00000	-9.1248	12.566	-90.156	-209.32
31.00000	6.00000	13.00000	-8.6440	12.566	-90.074	-206.32
32.00000	6.00000	13.00000	-7.9867	12.566	-89.912	-201.12
33.00000	6.00000	13.00000	-7.0276	12.566	-88.805	-187.40
34.00000	6.00000	13.00000	-5.1155	12.566	-45.056	-107.38
35.00000	6.00000	13.00000	-3.2058	12.566	-1.3121	-27.426
36.00000	6.00000	13.00000	-0.2538	12.566	-0.2197	90.354E-6
37.00000	6.00000	13.00000	-1.6086	12.566	-0.084873	-9.0619
38.00000	6.00000	13.00000	-1.1454	12.566	-0.047298	-6.6006
39.00000	6.00000	13.00000	-0.80297	12.566	-0.031536	-5.1183
40.00000	6.00000	13.00000	-0.55477	12.566	-0.023104	-4.1307
41.00000	6.00000	13.00000	-0.34980	12.566	-0.017859	-3.4273
42.00000	6.00000	13.00000	-0.20019	12.566	-0.014269	-2.9020
43.00000	6.00000	13.00000	-0.085487	12.566	-0.011655	-2.4956
44.00000	6.00000	13.00000	0.0024606	12.566	-0.0096717	-2.1725
45.00000	6.00000	13.00000	0.069689	12.566	-0.0081228	-1.9101
46.00000	6.00000	13.00000	0.12076	12.566	-0.0068864	-1.6932
47.00000	6.00000	13.00000	0.15915	12.566	-0.0058844	-1.5115
48.00000	6.00000	13.00000	0.18757	12.566	-0.0050619	-1.3573
49.00000	6.00000	13.00000	0.20811	12.566	-0.0043798	-1.2253
50.00000	6.00000	13.00000	0.22242	12.566	-0.0038087	-1.1112
51.00000	6.00000	13.00000	0.23181	12.566	-0.0033283	-1.0118
52.00000	6.00000	13.00000	0.23732	12.566	-0.0029204	-0.92471
53.00000	6.00000	13.00000	0.23977	12.566	-0.0025725	-0.84794
54.00000	6.00000	13.00000	0.23984	12.566	-0.0022741	-0.77991
55.00000	6.00000	13.00000	0.23805	12.566	-0.0020171	-0.71933
-25.00000	7.00000	13.00000	0.21104	12.566	-0.0074881	-1.0961
-24.00000	7.00000	13.00000	0.21440	12.566	-0.0087598	-1.1974
-23.00000	7.00000	13.00000	0.21676	12.566	-0.010304	-1.3119
-22.00000	7.00000	13.00000	0.21780	12.566	-0.012193	-1.4417
-21.00000	7.00000	13.00000	0.21719	12.566	-0.014520	-1.5851
-20.00000	7.00000	13.00000	0.21446	12.566	-0.017413	-1.7585
-19.00000	7.00000	13.00000	0.20907	12.566	-0.021042	-1.9530
-18.00000	7.00000	13.00000	0.20035	12.566	-0.025641	-2.1780
-17.00000	7.00000	13.00000	0.18746	12.566	-0.031534	-2.4398
-16.00000	7.00000	13.00000	0.16935	12.566	-0.039178	-2.7465
-15.00000	7.00000	13.00000	0.14475	12.566	-0.049233	-3.1086
-14.00000	7.00000	13.00000	0.11202	12.566	-0.062666	-3.5396
-13.00000	7.00000	13.00000	0.069154	12.566	-0.080925	-4.0574
-12.00000	7.00000	13.00000	0.013570	12.566	-0.10624	-4.6862
-11.00000	7.00000	13.00000	-0.057999	12.566	-0.14216	-5.4507
-10.00000	7.00000	13.00000	-0.14976	12.566	-0.19446	-6.4210
-9.00000	7.00000	13.00000	-0.26720	12.566	-0.27298	-7.6388
-8.00000	7.00000	13.00000	-0.41753	12.566	-0.39519	-9.2085
-7.00000	7.00000	13.00000	-0.61044	12.566	-0.59365	-11.276
-6.00000	7.00000	13.00000	-0.85823	12.566	-0.93272	-14.076
-5.00000	7.00000	13.00000	-1.1826	12.566	-1.5483	-17.958
-4.00000	7.00000	13.00000	-1.6079	12.566	-2.7487	-23.563
-3.00000	7.00000	13.00000	-2.1764	12.566	-5.2797	-31.940
-2.00000	7.00000	13.00000	-2.9509	12.566	-10.965	-44.817
-1.00000	7.00000	13.00000	-4.0087	12.566	-23.331	-64.284
0.00000	7.00000	13.00000	-5.3381	12.566	-44.612	-90.023
1.00000	7.00000	13.00000	-6.6669	12.566	-65.792	-115.74
2.00000	7.00000	13.00000	-7.7230	12.566	-78.255	-135.14
3.00000	7.00000	13.00000	-8.4944	12.566	-83.944	-147.89
4.00000	7.00000	13.00000	-9.0585	12.566	-86.461	-156.10
5.00000	7.00000	13.00000	-9.4777	12.566	-87.653	-161.47
6.00000	7.00000	13.00000	-9.7930	12.566	-88.256	-165.05
7.00000	7.00000	13.00000	-10.032	12.566	-88.577	-167.46
8.00000	7.00000	13.00000	-10.2111	12.566	-88.751	-169.03
9.00000	7.00000	13.00000	-10.345	12.566	-88.838	-169.98
10.00000	7.00000	13.00000	-10.442	12.566	-88.865	-170.41
11.00000	7.00000	13.00000	-10.508	12.566	-88.839	-170.37
12.00000	7.00000	13.00000	-10.547	12.566	-88.753	-169.85
13.00000	7.00000	13.00000	-10.563	12.566	-88.581	-168.78
14.00000	7.00000	13.00000	-10.554	12.566	-88.262	-167.02
15.00000	7.00000	13.00000	-10.522	12.566	-87.664	-164.34
16.00000	7.00000	13.00000	-10.464	12.566	-86.484	-160.32
17.00000	7.00000	13.00000	-10.373	12.566	-83.991	-154.41
18.00000	7.00000	13.00000	-10.250	12.566	-78.338	-146.29
19.00000	7.00000	13.00000	-10.141	12.566	-67.057	-140.15
20.00000	7.00000	13.00000	-10.708	12.566	-89.609	-194.05
21.00000	7.00000	13.00000	-11.264	12.566	-112.16	-247.91
22.00000	7.00000	13.00000	-11.123	12.566	-100.78	-241.64
23.00000	7.00000	13.00000	-10.946	12.566	-95.219	-233.28
24.00000	7.00000	13.00000	-10.775	12.566	-92.720	-227.03
25.00000	7.00000	13.00000	-10.604	12.566	-91.530	-222.53
26.00000	7.00000	13.00000	-10.423	12.566	-90.919	-219.20
27.00000	7.00000	13.00000	-10.218	12.566	-90.581	-216.59



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses			
X [m]	Y [m]	Z[Level] [m]	Calc Level [m]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
28.00000	7.00000	13.00000	-9.9750	12.566	-90.381	-387.29E-6
29.00000	7.00000	13.00000	-9.6773	12.566	-90.255	-399.05E-6
30.00000	7.00000	13.00000	-9.2998	12.566	-90.166	-412.94E-6
31.00000	7.00000	13.00000	-8.8057	12.566	-90.081	-432.08E-6
32.00000	7.00000	13.00000	-8.1335	12.566	-89.918	-464.65E-6
33.00000	7.00000	13.00000	-7.1581	12.566	-88.810	-536.03E-6
34.00000	7.00000	13.00000	-5.2290	12.566	-45.060	-187.03E-6
35.00000	7.00000	13.00000	-3.3024	12.566	-1.3147	162.34E-6
36.00000	7.00000	13.00000	-2.3344	12.566	-0.22190	92.095E-6
37.00000	7.00000	13.00000	-1.6747	12.566	-0.086362	61.484E-6
38.00000	7.00000	13.00000	-1.1988	12.566	-0.048417	45.192E-6
39.00000	7.00000	13.00000	-0.84561	12.566	-0.032382	35.181E-6
40.00000	7.00000	13.00000	-0.57915	12.566	-0.023750	28.440E-6
41.00000	7.00000	13.00000	-0.37617	12.566	-0.018357	23.610E-6
42.00000	7.00000	13.00000	-0.22066	12.566	-0.014657	19.989E-6
43.00000	7.00000	13.00000	-0.10121	12.566	-0.011961	17.183E-6
44.00000	7.00000	13.00000	-0.0094936	12.566	-0.0099154	14.950E-6
45.00000	7.00000	13.00000	0.060722	12.566	-0.0083181	13.137E-6
46.00000	7.00000	13.00000	0.11415	12.566	-0.0070449	11.638E-6
47.00000	7.00000	13.00000	0.15439	12.566	-0.0060137	10.383E-6
48.00000	7.00000	13.00000	0.18425	12.566	-0.0051681	9.3185E-6
49.00000	7.00000	13.00000	0.20591	12.566	-0.0044675	8.4074E-6
50.00000	7.00000	13.00000	0.22109	12.566	-0.0038820	7.6206E-6
51.00000	7.00000	13.00000	0.23115	12.566	-0.0033891	6.9360E-6
52.00000	7.00000	13.00000	0.23717	12.566	-0.0029715	6.3364E-6
53.00000	7.00000	13.00000	0.24000	12.566	-0.0026156	5.8082E-6
54.00000	7.00000	13.00000	0.24035	12.566	-0.0023106	5.3403E-6
55.00000	7.00000	13.00000	0.23876	12.566	-0.0020482	4.9240E-6
-25.00000	8.00000	13.00000	0.21165	12.566	-0.0076313	-1.1090
-24.00000	8.00000	13.00000	0.21493	12.566	-0.0089347	-1.2123
-23.00000	8.00000	13.00000	0.21717	12.566	-0.0105119	-1.3290
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-20.00000	8.00000	13.00000	0.21420	12.566	-0.017824	-1.7852
-19.00000	8.00000	13.00000	0.20844	12.566	-0.021559	-1.9842
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-17.00000	8.00000	13.00000	0.18571	12.566	-0.032366	-2.4829
-16.00000	8.00000	13.00000	0.16680	12.566	-0.040247	-2.7976
-15.00000	8.00000	13.00000	0.14118	12.566	-0.050615	-3.1693
-14.00000	8.00000	13.00000	0.10718	12.566	-0.064466	-3.6122
-13.00000	8.00000	13.00000	0.062698	12.566	-0.083290	-4.1446
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-9.00000	8.00000	13.00000	-0.28522	12.566	-0.28062	-7.8287
-8.00000	8.00000	13.00000	-0.44033	12.566	-0.40562	-9.4416
-7.00000	8.00000	13.00000	-0.63908	12.566	-0.60797	-11.563
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-5.00000	8.00000	13.00000	-1.2267	12.566	-1.5754	-18.393
-4.00000	8.00000	13.00000	-1.6619	12.566	-2.7857	-24.096
-3.00000	8.00000	13.00000	-2.2418	12.566	-5.3295	-32.591
-2.00000	8.00000	13.00000	-3.0290	12.566	-11.031	-45.601
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0.00000	8.00000	13.00000	-5.4441	12.566	-44.716	-91.108
1.00000	8.00000	13.00000	-6.7872	12.566	-65.916	-116.98
2.00000	8.00000	13.00000	-7.8569	12.566	-78.398	-136.52
3.00000	8.00000	13.00000	-8.6409	12.566	-84.095	-149.41
4.00000	8.00000	13.00000	-9.2161	12.566	-86.633	-157.72
5.00000	8.00000	13.00000	-9.6449	12.566	-87.834	-163.19
6.00000	8.00000	13.00000	-9.9684	12.566	-88.444	-166.84
7.00000	8.00000	13.00000	-10.214	12.566	-88.770	-169.30
8.00000	8.00000	13.00000	-10.399	12.566	-88.947	-170.92
9.00000	8.00000	13.00000	-10.537	12.566	-89.035	-171.89
10.00000	8.00000	13.00000	-10.637	12.566	-89.063	-172.34
11.00000	8.00000	13.00000	-10.705	12.566	-89.036	-172.30
12.00000	8.00000	13.00000	-10.746	12.566	-88.949	-171.76
13.00000	8.00000	13.00000	-10.762	12.566	-88.774	-170.67
14.00000	8.00000	13.00000	-10.754	12.566	-88.450	-168.87
15.00000	8.00000	13.00000	-10.721	12.566	-87.845	-166.12
16.00000	8.00000	13.00000	-10.661	12.566	-86.655	-162.04
17.00000	8.00000	13.00000	-10.569	12.566	-84.150	-156.04
18.00000	8.00000	13.00000	-10.444	12.566	-78.581	-147.82
19.00000	8.00000	13.00000	-10.332	12.566	-67.182	-141.56
20.00000	8.00000	13.00000	-10.895	12.566	-89.714	-195.34
21.00000	8.00000	13.00000	-11.447	12.566	-112.24	-249.08
22.00000	8.00000	13.00000	-11.303	12.566	-100.84	-242.68
23.00000	8.00000	13.00000	-11.121	12.566	-95.270	-234.22
24.00000	8.00000	13.00000	-10.946	12.566	-92.758	-227.87
25.00000	8.00000	13.00000	-10.771	12.566	-91.559	-223.29
26.00000	8.00000	13.00000	-10.584	12.566	-90.940	-219.88
27.00000	8.00000	13.00000	-10.373	12.566	-90.599	-217.20
28.00000	8.00000	13.00000	-10.123	12.566	-90.393	-214.92
29.00000	8.00000	13.00000	-9.8176	12.566	-90.264	-212.77
30.00000	8.00000	13.00000	-9.4312	12.566	-90.172	-210.42
31.00000	8.00000	13.00000	-8.9272	12.566	-90.087	-207.31
32.00000	8.00000	13.00000	-8.2439	12.566	-89.922	-202.00
33.00000	8.00000	13.00000	-7.2568	12.566	-88.813	-188.17
34.00000	8.00000	13.00000	-5.3156	12.566	-45.062	-108.04
35.00000	8.00000	13.00000	-3.3769	12.566	-1.3167	-27.982
36.00000	8.00000	13.00000	-2.3973	12.566	-0.22340	-14.366
37.00000	8.00000	13.00000	-1.7269	12.566	-0.087522	-9.4375
38.00000	8.00000	13.00000	-1.2416	12.566	-0.049310	-6.9057
39.00000	8.00000	13.00000	-0.88015	12.566	-0.033071	-5.3654
40.00000	8.00000	13.00000	-0.60675	12.566	-0.024284	-4.3312
41.00000	8.00000	13.00000	-0.39798	12.566	-0.018774	-3.5905
42.00000	8.00000	13.00000	-0.23772	12.566	-0.014986	-3.0355
43.00000	8.00000	13.00000	-0.11442	12.566	-0.012222	-2.6054
44.00000	8.00000	13.00000	-0.019601	12.566	-0.010124	-2.2634
45.00000	8.00000	13.00000	0.053098	12.566	-0.0084860	-1.9857
46.00000	8.00000	13.00000	0.10850	12.566	-0.0071811	-1.7566
47.00000	8.00000	13.00000	0.150030	12.566	-0.0061249	-1.5649
48.00000	8.00000	13.00000	0.18139	12.566	-0.0052595	-1.4026
49.00000	8.00000	13.00000	0.20401	12.566	-0.0045431	-1.2638
50.00000	8.00000	13.00000	0.21993	12.566	-0.0039448	-1.1441
51.00000	8.00000	13.00000	0.23056	12.566	-0.0034416	-1.0402
52.00000	8.00000	13.00000	0.23701	12.566	-0.0030155	-0.94923
53.00000	8.00000	13.00000	0.24018	12.566	-0.0026527	-0.86922
54.00000	8.00000	13.00000	0.24077	12.566	-0.0023421	-0.79845
55.00000	8.00000	13.00000	0.23936	12.566	-0.0020749	-0.73555
-25.00000	9.00000	13.00000	0.21215	12.566	-0.0077505	-1.1197
-24.00000	9.00000	13.00000	0.21536	12.566	-0.0090803	-1.2246
-23.00000	9.00000	13.00000	0.21749	12.566	-0.010697	-1.3432
-22.00000	9.00000	13.00000	0.21824	12.566	-0.012678	-1.4778
-21.00000	9.00000	13.00000	0.21723	12.566	-0.015123	-1.6314
-20.00000	9.00000	13.00000	0.21397	12.566	-0.018165	-1.8073
-19.00000	9.00000	13.00000	0.20789	12.566	-0.	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-4.00000	9.00000	13.00000	-1.7041	12.566	-2.8110	109.63E-6
	-3.00000	9.00000	13.00000	-2.2924	12.566	-5.3625	115.91E-6
	-2.00000	9.00000	13.00000	-3.0888	12.566	-11.073	88.434E-6
	-1.00000	9.00000	13.00000	-4.1702	12.566	-23.568	-32.783E-6
	0.00000	9.00000	13.00000	-5.5240	12.566	-44.780	-289.52E-6
	1.00000	9.00000	13.00000	-6.8772	12.566	-65.991	-546.40E-6
	2.00000	9.00000	13.00000	-7.9567	12.566	-78.483	-668.07E-6
	3.00000	9.00000	13.00000	-8.7498	12.566	-84.189	-696.32E-6
	4.00000	9.00000	13.00000	-9.3333	12.566	-86.734	-691.15E-6
	5.00000	9.00000	13.00000	-9.7693	12.566	-87.941	-678.14E-6
	6.00000	9.00000	13.00000	-10.099	12.566	-88.556	-665.41E-6
	7.00000	9.00000	13.00000	-10.349	12.566	-88.885	-655.10E-6
	8.00000	9.00000	13.00000	-10.539	12.566	-89.064	-647.55E-6
	9.00000	9.00000	13.00000	-10.680	12.566	-89.154	-642.60E-6
	10.00000	9.00000	13.00000	-10.782	12.566	-89.182	-640.07E-6
	11.00000	9.00000	13.00000	-10.852	12.566	-89.155	-639.80E-6
	12.00000	9.00000	13.00000	-10.894	12.566	-89.066	-641.70E-6
	13.00000	9.00000	13.00000	-10.911	12.566	-88.889	-645.68E-6
	14.00000	9.00000	13.00000	-10.903	12.566	-88.562	-651.46E-6
	15.00000	9.00000	13.00000	-10.870	12.566	-87.953	-657.97E-6
	16.00000	9.00000	13.00000	-10.809	12.566	-86.757	-661.73E-6
	17.00000	9.00000	13.00000	-10.715	12.566	-84.244	-651.62E-6
	18.00000	9.00000	13.00000	-10.588	12.566	-78.667	-594.07E-6
	19.00000	9.00000	13.00000	-10.475	12.566	-67.257	-403.80E-6
	20.00000	9.00000	13.00000	-11.035	12.566	-89.778	-498.36E-6
	21.00000	9.00000	13.00000	-11.585	12.566	-112.350	-593.21E-6
	22.00000	9.00000	13.00000	-11.438	12.566	-100.89	-403.87E-6
	23.00000	9.00000	13.00000	-11.253	12.566	-95.303	-347.91E-6
	24.00000	9.00000	13.00000	-11.074	12.566	-92.784	-340.14E-6
	25.00000	9.00000	13.00000	-10.895	12.566	-91.578	-347.13E-6
	26.00000	9.00000	13.00000	-10.704	12.566	-90.950	-357.96E-6
	27.00000	9.00000	13.00000	-10.488	12.566	-90.608	-369.46E-6
	28.00000	9.00000	13.00000	-10.233	12.566	-90.402	-381.08E-6
	29.00000	9.00000	13.00000	-9.9218	12.566	-90.270	-393.35E-6
	30.00000	9.00000	13.00000	-9.5288	12.566	-90.177	-407.73E-6
	31.00000	9.00000	13.00000	-9.0174	12.566	-90.091	-427.38E-6
	32.00000	9.00000	13.00000	-8.3261	12.566	-89.925	-460.44E-6
	33.00000	9.00000	13.00000	-7.3304	12.566	-88.816	-532.32E-6
	34.00000	9.00000	13.00000	-5.3805	12.566	-45.064	-183.81E-6
	35.00000	9.00000	13.00000	-3.4332	12.566	-1.3181	165.09E-6
	36.00000	9.00000	13.00000	-2.4483	12.566	-0.22455	94.416E-6
	37.00000	9.00000	13.00000	-1.7672	12.566	-0.088421	-9.5632
	38.00000	9.00000	13.00000	-1.2748	12.566	-0.050011	-7.0104
	39.00000	9.00000	13.00000	-0.90730	12.566	-0.033619	-5.4523
	40.00000	9.00000	13.00000	-0.62863	12.566	-0.024714	-4.4031
	41.00000	9.00000	13.00000	-0.41542	12.566	-0.019183	-3.6505
	42.00000	9.00000	13.00000	-0.25147	12.566	-0.015254	-3.0848
	43.00000	9.00000	13.00000	-0.12513	12.566	-0.012436	-2.6464
	44.00000	9.00000	13.00000	-0.027837	12.566	-0.010296	-2.2976
	45.00000	9.00000	13.00000	0.046855	12.566	-0.0086248	-2.0144
	46.00000	9.00000	13.00000	0.10385	12.566	-0.0072939	-1.7805
	47.00000	9.00000	13.00000	0.14692	12.566	-0.0062172	-1.5853
	48.00000	9.00000	13.00000	0.17901	12.566	-0.0053354	-1.4199
	49.00000	9.00000	13.00000	0.20242	12.566	-0.0046058	-1.2786
	50.00000	9.00000	13.00000	0.21896	12.566	-0.0039970	-1.1568
	51.00000	9.00000	13.00000	0.23006	12.566	-0.0034852	-1.0510
	52.00000	9.00000	13.00000	0.23687	12.566	-0.0030521	-0.95863
	53.00000	9.00000	13.00000	0.24031	12.566	-0.0026835	-0.87738
	54.00000	9.00000	13.00000	0.24111	12.566	-0.0023682	-0.80556
	55.00000	9.00000	13.00000	0.23984	12.566	-0.0020971	-0.74177
	56.00000	10.00000	13.00000	0.21254	12.566	-0.0078445	-7.5347E-6
	-24.00000	10.00000	13.00000	0.21569	12.566	-0.0091950	-1.2343
	-23.00000	10.00000	13.00000	0.21774	12.566	-0.010838	-1.3543
	-22.00000	10.00000	13.00000	0.21839	12.566	-0.012852	-1.4907
	-21.00000	10.00000	13.00000	0.21722	12.566	-0.015338	-1.6463
	-20.00000	10.00000	13.00000	0.21378	12.566	-0.018434	-1.8248
	-19.00000	10.00000	13.00000	0.20745	12.566	-0.022324	-2.0304
	-18.00000	10.00000	13.00000	0.19752	12.566	-0.027261	-2.2688
	-17.00000	10.00000	13.00000	0.18307	12.566	-0.033594	-2.5468
	-16.00000	10.00000	13.00000	0.16299	12.566	-0.041816	-2.8732
	-15.00000	10.00000	13.00000	0.13588	12.566	-0.052639	-3.2592
	-14.00000	10.00000	13.00000	0.10000	12.566	-0.067079	-3.7194
	-13.00000	10.00000	13.00000	0.053173	12.566	-0.086694	-4.2730
	-12.00000	10.00000	13.00000	-0.0073529	12.566	-0.11384	-4.9456
	-11.00000	10.00000	13.00000	-0.085065	12.566	-0.15222	-5.7723
	-10.00000	10.00000	13.00000	-0.18443	12.566	-0.20787	-6.8013
	-9.00000	10.00000	13.00000	-0.31120	12.566	-0.29096	-8.1016
	-8.00000	10.00000	13.00000	-0.47293	12.566	-0.41940	-9.7730
	-7.00000	10.00000	13.00000	-0.67963	12.566	-0.62633	-11.965
	-6.00000	10.00000	13.00000	-0.94493	12.566	-0.97685	-14.911
	-5.00000	10.00000	13.00000	-1.28878	12.566	-1.60778	-18.988
	-4.00000	10.00000	13.00000	-1.7357	12.566	-2.8280	-24.808
	-3.00000	10.00000	13.00000	-2.3300	12.566	-5.3842	-33.440
	-2.00000	10.00000	13.00000	-3.1329	12.566	-11.100	-46.604
	-1.00000	10.00000	13.00000	-4.2212	12.566	-23.601	-66.383
	0.00000	10.00000	13.00000	-5.5822	12.566	-44.819	-92.448
	1.00000	10.00000	13.00000	-6.9425	12.566	-66.036	-118.49
	2.00000	10.00000	13.00000	-8.0289	12.566	-78.535	-138.19
	3.00000	10.00000	13.00000	-8.8285	12.566	-84.246	-151.23
	4.00000	10.00000	13.00000	-9.4178	12.566	-86.796	-159.67
	5.00000	10.00000	13.00000	-9.8590	12.566	-88.556	-165.25
	6.00000	10.00000	13.00000	-10.193	12.566	-88.624	-168.99
	7.00000	10.00000	13.00000	-10.447	12.566	-88.955	-171.52
	8.00000	10.00000	13.00000	-10.640	12.566	-89.136	-173.19
	9.00000	10.00000	13.00000	-10.783	12.566	-89.226	-174.20
	10.00000	10.00000	13.00000	-10.888	12.566	-89.254	-174.65
	11.00000	10.00000	13.00000	-10.959	12.566	-89.227	-174.62
	12.00000	10.00000	13.00000	-11.002	12.566	-89.138	-174.07
	13.00000	10.00000	13.00000	-11.019	12.566	-88.959	-172.94
	14.00000	10.00000	13.00000	-11.011	12.566	-88.630	-171.09
	15.00000	10.00000	13.00000	-10.977	12.566	-88.018	-168.20
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	17.00000	10.00000	13.00000	-10.822	12.566	-84.301	-158.01
	18.00000	10.00000	13.00000	-10.693	12.566	-78.718	-149.66
	19.00000	10.00000	13.00000	-10.578	12.566	-67.303	-143.28
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	21.00000	10.00000	13.00000	-11.685	12.566	-112.33	-250.52
	22.00000	10.00000	13.00000	-11.535	12.566	-100.91	-243.99
	23.00000	10.00000	13.00000	-11.348	12.566	-95.326	-235.40
	24.00000	10.00000	13.00000	-11.167	12.566	-92.801	-228.93
	25.00000	10.00000	13.00000	-10.985	12.566	-91.592	-224.22
	26.00000	10.00000	13.00000	-10.791	12.566	-90.965	-220.75
	27.00000	10.00000	13.00000	-10.571	12.566	-90.616	-217.98
	28.00000	10.00000	13.00000	-10.313	12.566	-90.408	-215.63
	29.00000	10.00000	13.00000	-9.9968	12.566	-90.275	-213.41
	30.00000	10.00000	13.00000	-9.5999	12.566	-90.181	-211.00
	31.00000	10.00000	13.00000	-9.0823	12.566	-90.094	-207.83
	32.00000	10.00000	13.00000	-8.3853	12.566	-89.927	-202.46
	33.00000	10.00000	13.00000	-7.3836	12.566	-88.817	-188.57
	34.00000	10.00000	13.00000	-5.4276	12.566	-45.066	-108.39
	35.00000	10.00000	13.00000	-3.4742	12.566	-1.3190	-28.287
	36.00000	10.00000	13.00000	-2.4805	12.566	-0.22542	-14.625
	37.00000	10.00000	13.00000	-1.7970	12.566	-0.089096	-9.6560
	38.00000	10.00000	13.00000	-1.2997	12.566	-0.050541	-7.0885
	39.00000	10.00000	13.00000	-0.92770	12.566	-0.034037	-5.5177
	40.00000	10.00000	13.00000	-0.64519	12.566	-0.025044	-4.4570
	41.00000	10.00000	13.00000	-0.42871	12.566	-0.019374	-3.6956
	42.00000	10.00000	13.00000	-0.26200	12.566	-0.015462	-3.1229
	43.00000	10.00000	13.00000	-0.13338	12.566	-0.012603	-2.6782
	44.00000	10.00000	13.00000	-0.03			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [m]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
45.00000	10.00000	13.00000	0.042008	12.566	-0.0087336	-2.0368	13.714E-6
46.00000	10.00000	13.00000	0.10023	12.566	-0.0073825	-1.7996	12.124E-6
47.00000	10.00000	13.00000	0.14428	12.566	-0.0062897	-1.6012	10.793E-6
48.00000	10.00000	13.00000	0.17715	12.566	-0.0053951	-1.4335	9.6670E-6
49.00000	10.00000	13.00000	0.20117	12.566	-0.0046552	-1.2902	8.7047E-6
50.00000	10.00000	13.00000	0.21818	12.566	-0.0040380	-1.1667	7.8754E-6
51.00000	10.00000	13.00000	0.22966	12.566	-0.0035195	-1.0596	7.1554E-6
52.00000	10.00000	13.00000	0.23675	12.566	-0.0030809	-0.96602	6.5261E-6
53.00000	10.00000	13.00000	0.24041	12.566	-0.0027078	-0.88379	5.9728E-6
54.00000	10.00000	13.00000	0.24136	12.566	-0.0023987	-0.81115	5.4838E-6
55.00000	10.00000	13.00000	0.24022	12.566	-0.0021145	-0.74666	5.0496E-6
-25.00000	11.00000	13.00000	0.21281	12.566	-0.0079123	-1.1343	7.5748E-6
-24.00000	11.00000	13.00000	0.21592	12.566	-0.0092778	-1.2413	8.2767E-6
-23.00000	11.00000	13.00000	0.21792	12.566	-0.010940	-1.3624	9.0687E-6
-22.00000	11.00000	13.00000	0.21848	12.566	-0.012977	-1.5000	9.9658E-6
-21.00000	11.00000	13.00000	0.21722	12.566	-0.015493	-1.6571	10.906E-6
-20.00000	11.00000	13.00000	0.21363	12.566	-0.018628	-1.8373	12.151E-6
-19.00000	11.00000	13.00000	0.20713	12.566	-0.022567	-2.0451	13.488E-6
-18.00000	11.00000	13.00000	0.19697	12.566	-0.027566	-2.2860	15.029E-6
-17.00000	11.00000	13.00000	0.18223	12.566	-0.033981	-2.5671	16.815E-6
-16.00000	11.00000	13.00000	0.16177	12.566	-0.042307	-2.8972	18.896E-6
-15.00000	11.00000	13.00000	0.13419	12.566	-0.053265	-3.2876	21.335E-6
-14.00000	11.00000	13.00000	0.097729	12.566	-0.067892	-3.7532	24.211E-6
-13.00000	11.00000	13.00000	0.050170	12.566	-0.087745	-4.3134	27.625E-6
-12.00000	11.00000	13.00000	-0.011260	12.566	-0.11520	-4.9940	31.706E-6
-11.00000	11.00000	13.00000	-0.090806	12.566	-0.15399	-5.8304	36.617E-6
-10.00000	11.00000	13.00000	-0.19081	12.566	-0.21019	-6.8713	42.567E-6
-9.00000	11.00000	13.00000	-0.31923	12.566	-0.29399	-8.1858	49.819E-6
-8.00000	11.00000	13.00000	-0.48294	12.566	-0.42336	-9.8745	58.689E-6
-7.00000	11.00000	13.00000	-0.69200	12.566	-0.63149	-12.088	69.525E-6
-6.00000	11.00000	13.00000	-0.96005	12.566	-0.98055	-15.058	82.551E-6
-5.00000	11.00000	13.00000	-1.3061	12.566	-1.6163	-19.159	97.610E-6
-4.00000	11.00000	13.00000	-1.7576	12.566	-2.8389	-25.015	112.53E-6
-3.00000	11.00000	13.00000	-2.3559	12.566	-5.3978	-33.684	119.30E-6
-2.00000	11.00000	13.00000	-3.1632	12.566	-11.117	-46.888	92.338E-6
-1.00000	11.00000	13.00000	-4.2560	12.566	-23.621	-66.709	-28.331E-6
0.00000	11.00000	13.00000	-5.6217	12.566	-44.843	-92.817	-284.50E-6
1.00000	11.00000	13.00000	-6.9868	12.566	-66.064	-118.90	-540.83E-6
2.00000	11.00000	13.00000	-8.0777	12.566	-78.566	-138.65	-661.96E-6
3.00000	11.00000	13.00000	-8.8816	12.566	-84.280	-151.72	-689.71E-6
4.00000	11.00000	13.00000	-9.4748	12.566	-86.838	-160.20	-684.09E-6
5.00000	11.00000	13.00000	-9.9195	12.566	-88.045	-165.80	-670.70E-6
6.00000	11.00000	13.00000	-10.257	12.566	-88.664	-169.58	-657.65E-6
7.00000	11.00000	13.00000	-10.513	12.566	-88.997	-172.12	-647.08E-6
8.00000	11.00000	13.00000	-10.708	12.566	-89.178	-173.80	-639.32E-6
9.00000	11.00000	13.00000	-10.853	12.566	-89.273	-174.93	-634.25E-6
10.00000	11.00000	13.00000	-10.959	12.566	-89.298	-175.29	-631.65E-6
11.00000	11.00000	13.00000	-11.031	12.566	-89.270	-175.25	-631.37E-6
12.00000	11.00000	13.00000	-11.075	12.566	-89.180	-174.69	-633.32E-6
13.00000	11.00000	13.00000	-11.092	12.566	-89.001	-173.55	-637.41E-6
14.00000	11.00000	13.00000	-11.084	12.566	-88.670	-171.69	-643.35E-6
15.00000	11.00000	13.00000	-11.050	12.566	-88.057	-168.86	-650.09E-6
16.00000	11.00000	13.00000	-10.988	12.566	-86.855	-164.67	-654.12E-6
17.00000	11.00000	13.00000	-10.894	12.566	-84.335	-158.54	-644.34E-6
18.00000	11.00000	13.00000	-10.765	12.566	-78.749	-150.17	-587.14E-6
19.00000	11.00000	13.00000	-10.648	12.566	-67.356	-143.75	-397.20E-6
20.00000	11.00000	13.00000	-11.206	12.566	-89.841	-197.36	-492.24E-6
21.00000	11.00000	13.00000	-11.752	12.566	-112.35	-250.92	-587.52E-6
22.00000	11.00000	13.00000	-11.601	12.566	-100.93	-244.35	-398.59E-6
23.00000	11.00000	13.00000	-11.413	12.566	-95.339	-235.73	-343.04E-6
24.00000	11.00000	13.00000	-11.230	12.566	-92.812	-229.82	-335.67E-6
25.00000	11.00000	13.00000	-11.046	12.566	-91.601	-224.51	-343.02E-6
26.00000	11.00000	13.00000	-10.849	12.566	-90.972	-220.99	-354.19E-6
27.00000	11.00000	13.00000	-10.627	12.566	-90.621	-218.20	-366.01E-6
28.00000	11.00000	13.00000	-10.366	12.566	-90.412	-215.83	-377.92E-6
29.00000	11.00000	13.00000	-10.047	12.566	-90.279	-213.59	-390.47E-6
30.00000	11.00000	13.00000	-9.6462	12.566	-90.184	-211.16	-405.12E-6
31.00000	11.00000	13.00000	-9.1260	12.566	-90.096	-207.98	-425.02E-6
32.00000	11.00000	13.00000	-8.4252	12.566	-89.929	-202.59	-458.32E-6
33.00000	11.00000	13.00000	-7.4196	12.566	-88.819	-188.69	-530.44E-6
34.00000	11.00000	13.00000	-5.4596	12.566	-85.067	-108.45	-182.16E-6
35.00000	11.00000	13.00000	-3.5022	12.566	-1.3200	-28.374	166.52E-6
36.00000	11.00000	13.00000	-2.5046	12.566	-0.22601	-14.700	95.644E-6
37.00000	11.00000	13.00000	-1.8174	12.566	-0.089567	-9.7200	64.466E-6
38.00000	11.00000	13.00000	-1.3168	12.566	-0.050913	-7.1427	47.678E-6
39.00000	11.00000	13.00000	-0.94188	12.566	-0.034331	-5.5639	37.245E-6
40.00000	11.00000	13.00000	-0.65676	12.566	-0.025277	-4.4962	30.150E-6
41.00000	11.00000	13.00000	-0.43803	12.566	-0.019560	-3.7278	25.027E-6
42.00000	11.00000	13.00000	-0.26942	12.566	-0.015611	-3.1499	21.165E-6
43.00000	11.00000	13.00000	-0.13921	12.566	-0.012722	-2.7008	18.162E-6
44.00000	11.00000	13.00000	-0.038732	12.566	-0.005826	-2.3492	15.768E-6
45.00000	11.00000	13.00000	0.038553	12.566	-0.0088118	-2.0528	13.821E-6
46.00000	11.00000	13.00000	0.097640	12.566	-0.0074462	-1.8131	12.215E-6
47.00000	11.00000	13.00000	0.14239	12.566	-0.0063419	-1.6127	10.870E-6
48.00000	11.00000	13.00000	0.17581	12.566	-0.0054380	-1.4432	9.7326E-6
49.00000	11.00000	13.00000	0.20027	12.566	-0.0046907	-1.2989	8.7608E-6
50.00000	11.00000	13.00000	0.21762	12.566	-0.0040676	-1.1739	7.9235E-6
51.00000	11.00000	13.00000	0.22936	12.566	-0.0035442	-1.0658	7.1968E-6
52.00000	11.00000	13.00000	0.23666	12.566	-0.0031016	-0.97135	6.5619E-6
53.00000	11.00000	13.00000	0.24047	12.566	-0.0027252	-0.88841	6.0040E-6
54.00000	11.00000	13.00000	0.24154	12.566	-0.0024035	-0.81517	5.5110E-6
55.00000	11.00000	13.00000	0.24048	12.566	-0.0021271	-0.75017	5.0733E-6
-25.00000	12.00000	13.00000	0.21297	12.566	-0.0079533	-1.1379	7.5990E-6
-24.00000	12.00000	13.00000	0.21606	12.566	-0.0093278	-1.2455	8.3045E-6
-23.00000	12.00000	13.00000	0.21802	12.566	-0.011001	-1.3672	9.1006E-6
-22.00000	12.00000	13.00000	0.21854	12.566	-0.013053	-1.5056	10.002E-6
-21.00000	12.00000	13.00000	0.21721	12.566	-0.015587	-1.6636	11.028E-6
-20.00000	12.00000	13.00000	0.21354	12.566	-0.018744	-1.8449	12.200E-6
-19.00000	12.00000	13.00000	0.20693	12.566	-0.022713	-2.0540	13.545E-6
-18.00000	12.00000	13.00000	0.19663	12.566	-0.027750	-2.2964	15.096E-6
-17.00000	12.00000	13.00000	0.18172	12.566	-0.034212	-2.5792	16.893E-6
-16.00000	12.00000	13.00000	0.16104	12.566	-0.042605	-2.9116	18.988E-6
-15.00000	12.00000	13.00000	0.13318	12.566	-0.053644	-3.3048	21.444E-6
-14.00000	12.00000	13.00000	0.096360	12.566	-0.068378	-3.7736	24.340E-6
-13.00000	12.00000	13.00000	0.048364	12.566	-0.088372	-4.3377	27.778E-6
-12.00000	12.00000	13.00000	-0.013367	12.566	-0.11601	-5.1231	31.888E-6
-11.00000	12.00000	13.00000	-0.093097	12.566	-0.15505	-5.8653	36.834E-6
-10.00000	12.00000	13.00000	-0.19463	12.566	-0.21155	-6.9132	42.825E-6
-9.00000	12.00000	13.00000	-0.32403	12.566	-0.29577	-8.2361	50.125E-6
-8.00000	12.00000	13.00000	-0.48890	12.566	-0.42566	-9.9348	59.054E-6
-7.00000	12.00000	13.00000	-0.69894	12.566	-0.63444	-12.160	69.958E-6
-6.00000	12.00000	13.00000	-0.96900	12.566	-0.98734	-15.144	83.093E-6
-5.00000	12.00000	13.00000	-1.3169	12.566	-1.6211	-19.262	98.211E-6
-4.00000	12.00000	13.00000	-1.7705	12.566	-2.8450	-25.136	113.24E-6
-3.00000	12.00000	13.00000	-2.3711	12.566	-5.4054	-33.825	120.11E-6
-2.00000	12.00000	13.00000	-3.1808	12.566	-11.126	-47.052	93.271E-6
-1.00000	12.00						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
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Name	X	Location	Displacement	Stresses				
	[m]	[m]	Z [Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	13.00000	12.00000	13.00000	-11.134	12.566	-89.023	-173.90	-635.48E-6
	14.00000	12.00000	13.00000	-11.126	12.566	-88.692	-172.03	-641.46E-6
	15.00000	12.00000	13.00000	-11.093	12.566	-88.077	-169.19	-648.24E-6
	16.00000	12.00000	13.00000	-11.031	12.566	-86.875	-164.99	-652.34E-6
	17.00000	12.00000	13.00000	-10.935	12.566	-84.353	-158.84	-642.63E-6
	18.00000	12.00000	13.00000	-10.806	12.566	-78.766	-150.45	-585.52E-6
	19.00000	12.00000	13.00000	-10.689	12.566	-67.345	-144.02	-395.74E-6
	20.00000	12.00000	13.00000	-11.246	12.566	-89.854	-197.61	-490.80E-6
	21.00000	12.00000	13.00000	-11.792	12.566	-112.36	-251.15	-586.18E-6
	22.00000	12.00000	13.00000	-11.640	12.566	-100.94	-244.56	-397.36E-6
	23.00000	12.00000	13.00000	-11.450	12.566	-95.347	-235.92	-341.90E-6
	24.00000	12.00000	13.00000	-11.266	12.566	-92.819	-229.40	-334.62E-6
	25.00000	12.00000	13.00000	-11.081	12.566	-91.606	-224.67	-342.05E-6
	26.00000	12.00000	13.00000	-10.883	12.566	-90.976	-221.13	-353.31E-6
	27.00000	12.00000	13.00000	-10.660	12.566	-90.625	-218.33	-365.20E-6
	28.00000	12.00000	13.00000	-10.397	12.566	-90.415	-215.95	-377.18E-6
	29.00000	12.00000	13.00000	-10.077	12.566	-90.280	-213.69	-389.80E-6
	30.00000	12.00000	13.00000	-9.6735	12.566	-90.185	-211.25	-404.51E-6
	31.00000	12.00000	13.00000	-9.1512	12.566	-90.097	-208.06	-424.47E-6
	32.00000	12.00000	13.00000	-8.4483	12.566	-89.930	-202.67	-457.83E-6
	33.00000	12.00000	13.00000	-7.4405	12.566	-88.819	-188.75	-530.01E-6
	34.00000	12.00000	13.00000	-5.4781	12.566	-45.067	-108.55	-181.78E-6
	35.00000	12.00000	13.00000	-3.5185	12.566	-1.3204	-28.424	166.86E-6
	36.00000	12.00000	13.00000	-2.5187	12.566	-0.22637	-14.744	95.935E-6
	37.00000	12.00000	13.00000	-1.8294	12.566	-0.089846	-9.7574	64.716E-6
	38.00000	12.00000	13.00000	-1.3269	12.566	-0.051134	-7.7447	47.891E-6
	39.00000	12.00000	13.00000	-0.95023	12.566	-0.034507	-5.5904	37.425E-6
	40.00000	12.00000	13.00000	-0.66360	12.566	-0.025417	-4.5189	30.303E-6
	41.00000	12.00000	13.00000	-0.44356	12.566	-0.019672	-3.7470	25.155E-6
	42.00000	12.00000	13.00000	-0.27383	12.566	-0.015701	-3.1660	21.273E-6
	43.00000	12.00000	13.00000	-0.14269	12.566	-0.012790	-2.7144	18.253E-6
	44.00000	12.00000	13.00000	-0.041435	12.566	-0.010584	-2.3546	15.844E-6
	45.00000	12.00000	13.00000	0.036485	12.566	-0.0088589	-2.0624	13.886E-6
	46.00000	12.00000	13.00000	0.096088	12.566	-0.0074846	-1.8212	12.269E-6
	47.00000	12.00000	13.00000	0.14125	12.566	-0.0063734	-1.6196	10.917E-6
	48.00000	12.00000	13.00000	0.17500	12.566	-0.0054640	-1.4491	9.7722E-6
	49.00000	12.00000	13.00000	0.19972	12.566	-0.0047122	-1.3035	8.7947E-6
	50.00000	12.00000	13.00000	0.21728	12.566	-0.0040855	-1.1782	7.9526E-6
	51.00000	12.00000	13.00000	0.22918	12.566	-0.0035591	-1.0695	7.2219E-6
	52.00000	12.00000	13.00000	0.23661	12.566	-0.0031141	-0.97456	6.5836E-6
	53.00000	12.00000	13.00000	0.24051	12.566	-0.0027358	-0.89122	6.0227E-6
	54.00000	12.00000	13.00000	0.24165	12.566	-0.0024124	-0.81760	5.5273E-6
	55.00000	12.00000	13.00000	0.24064	12.566	-0.0021347	-0.75230	5.0876E-6
	-25.00000	13.00000	13.00000	0.21303	12.566	-0.0079670	-1.1392	7.6071E-6
	-24.00000	13.00000	13.00000	0.21611	12.566	-0.0093445	-1.2469	8.3137E-6
	-23.00000	13.00000	13.00000	0.21806	12.566	-0.011022	-1.3699	9.1112E-6
	-22.00000	13.00000	13.00000	0.21856	12.566	-0.013078	-1.5075	10.015E-6
	-21.00000	13.00000	13.00000	0.21721	12.566	-0.015618	-1.6658	11.043E-6
	-20.00000	13.00000	13.00000	0.21351	12.566	-0.018783	-1.8474	12.217E-6
	-19.00000	13.00000	13.00000	0.20687	12.566	-0.022762	-2.0569	13.564E-6
	-18.00000	13.00000	13.00000	0.19652	12.566	-0.027812	-2.2999	15.118E-6
	-17.00000	13.00000	13.00000	0.18154	12.566	-0.034292	-2.5834	16.920E-6
	-16.00000	13.00000	13.00000	0.16079	12.566	-0.042704	-2.9165	19.019E-6
	-15.00000	13.00000	13.00000	0.13284	12.566	-0.053770	-3.3105	21.480E-6
	-14.00000	13.00000	13.00000	0.095903	12.566	-0.068540	-3.7804	24.383E-6
	-13.00000	13.00000	13.00000	0.047761	12.566	-0.085880	-4.3458	27.830E-6
	-12.00000	13.00000	13.00000	-0.014390	12.566	-0.11628	-5.0328	31.949E-6
	-11.00000	13.00000	13.00000	-0.094100	12.566	-0.15539	-5.8769	36.906E-6
	-10.00000	13.00000	13.00000	-0.19590	12.566	-0.21201	-6.9271	42.911E-6
	-9.00000	13.00000	13.00000	-0.32562	12.566	-0.29635	-8.2528	50.227E-6
	-8.00000	13.00000	13.00000	-0.49088	12.566	-0.42641	-9.9549	59.175E-6
	-7.00000	13.00000	13.00000	-0.70178	12.566	-0.63542	-12.184	70.102E-6
	-6.00000	13.00000	13.00000	-0.97197	12.566	-0.98858	-15.173	83.262E-6
	-5.00000	13.00000	13.00000	-1.3205	12.566	-1.6227	-19.296	98.410E-6
	-4.00000	13.00000	13.00000	-1.7748	12.566	-2.8469	-25.176	113.47E-6
	-3.00000	13.00000	13.00000	-2.3761	12.566	-5.4078	-33.872	120.38E-6
	-2.00000	13.00000	13.00000	-3.1866	12.566	-11.129	-47.105	93.578E-6
	-1.00000	13.00000	13.00000	-4.2830	12.566	-23.635	-66.958	-26.926E-6
	0.00000	13.00000	13.00000	-5.6522	12.566	-44.860	-93.099	-282.93E-6
	1.00000	13.00000	13.00000	-7.0208	12.566	-66.083	-119.21	-539.09E-6
	2.00000	13.00000	13.00000	-8.1152	12.566	-78.587	-138.99	-660.06E-6
	3.00000	13.00000	13.00000	-8.9223	12.566	-84.304	-152.09	-687.66E-6
	4.00000	13.00000	13.00000	-9.5185	12.566	-86.858	-160.60	-681.90E-6
	5.00000	13.00000	13.00000	-9.9659	12.566	-88.072	-166.22	-668.39E-6
	6.00000	13.00000	13.00000	-10.305	12.566	-88.692	-170.01	-655.24E-6
	7.00000	13.00000	13.00000	-10.564	12.566	-89.026	-172.58	-644.58E-6
	8.00000	13.00000	13.00000	-10.760	12.566	-89.208	-174.27	-636.77E-6
	9.00000	13.00000	13.00000	-10.907	12.566	-89.300	-175.29	-631.66E-6
	10.00000	13.00000	13.00000	-11.014	12.566	-89.328	-175.76	-629.04E-6
	11.00000	13.00000	13.00000	-11.087	12.566	-89.301	-175.72	-628.75E-6
	12.00000	13.00000	13.00000	-11.131	12.566	-89.216	-175.16	-630.72E-6
	13.00000	13.00000	13.00000	-11.148	12.566	-89.030	-174.02	-634.84E-6
	14.00000	13.00000	13.00000	-11.140	12.566	-88.699	-172.14	-640.83E-6
	15.00000	13.00000	13.00000	-11.107	12.566	-88.083	-169.30	-647.64E-6
	16.00000	13.00000	13.00000	-11.044	12.566	-86.881	-165.09	-651.75E-6
	17.00000	13.00000	13.00000	-10.949	12.566	-84.359	-158.94	-642.07E-6
	18.00000	13.00000	13.00000	-10.819	12.566	-78.771	-150.55	-584.99E-6
	19.00000	13.00000	13.00000	-10.702	12.566	-67.350	-144.10	-395.24E-6
	20.00000	13.00000	13.00000	-11.259	12.566	-89.858	-197.69	-490.33E-6
	21.00000	13.00000	13.00000	-11.804	12.566	-112.37	-251.22	-585.74E-6
	22.00000	13.00000	13.00000	-11.652	12.566	-100.94	-244.63	-396.95E-6
	23.00000	13.00000	13.00000	-11.462	12.566	-95.349	-235.98	-341.52E-6
	24.000							

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by	Date	Checked
MP		

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]	
	-19.00000	14.00000	13.00000	0.20693	12.566	-0.022713	-2.0540	13.545E-6
	-18.00000	14.00000	13.00000	0.19663	12.566	-0.027750	-2.2964	15.096E-6
	-17.00000	14.00000	13.00000	0.18172	12.566	-0.034214	-2.5793	16.893E-6
	-16.00000	14.00000	13.00000	0.16104	12.566	-0.042605	-2.9116	18.988E-6
	-15.00000	14.00000	13.00000	0.13318	12.566	-0.053644	-3.3048	21.444E-6
	-14.00000	14.00000	13.00000	0.096360	12.566	-0.068378	-3.7736	24.340E-6
	-13.00000	14.00000	13.00000	0.048364	12.566	-0.088372	-4.3377	27.778E-6
	-12.00000	14.00000	13.00000	-0.013607	12.566	-0.11601	-5.0231	31.888E-6
	-11.00000	14.00000	13.00000	-0.093097	12.566	-0.15505	-5.8653	36.834E-6
	-10.00000	14.00000	13.00000	-0.19463	12.566	-0.21155	-6.9132	42.825E-6
	-9.00000	14.00000	13.00000	-0.32403	12.566	-0.29577	-8.2361	50.125E-6
	-8.00000	14.00000	13.00000	-0.48890	12.566	-0.42566	-9.9348	59.054E-6
	-7.00000	14.00000	13.00000	-0.69934	12.566	-0.63446	-12.160	69.958E-6
	-6.00000	14.00000	13.00000	-0.96900	12.566	-0.98734	-15.144	83.093E-6
	-5.00000	14.00000	13.00000	-1.3169	12.566	-1.6211	-19.262	98.211E-6
	-4.00000	14.00000	13.00000	-1.7705	12.566	-2.8450	-25.136	113.24E-6
	-3.00000	14.00000	13.00000	-2.3711	12.566	-5.4054	-33.825	120.11E-6
	-2.00000	14.00000	13.00000	-3.1808	12.566	-11.126	-47.052	93.271E-6
	-1.00000	14.00000	13.00000	-4.2763	12.566	-23.632	-66.897	-27.273E-6
	0.00000	14.00000	13.00000	-5.6447	12.566	-44.856	-93.029	-283.32E-6
	1.00000	14.00000	13.00000	-7.0124	12.566	-66.078	-119.14	-539.52E-6
	2.00000	14.00000	13.00000	-8.1059	12.566	-78.582	-138.91	-660.53E-6
	3.00000	14.00000	13.00000	-8.9123	12.566	-84.298	-152.00	-688.17E-6
	4.00000	14.00000	13.00000	-9.5077	12.566	-86.851	-160.50	-682.44E-6
	5.00000	14.00000	13.00000	-9.9545	12.566	-88.066	-166.12	-668.96E-6
	6.00000	14.00000	13.00000	-10.293	12.566	-88.686	-169.91	-655.83E-6
	7.00000	14.00000	13.00000	-10.551	12.566	-89.019	-172.47	-645.20E-6
	8.00000	14.00000	13.00000	-10.747	12.566	-89.201	-174.15	-637.40E-6
	9.00000	14.00000	13.00000	-10.894	12.566	-89.292	-175.18	-632.30E-6
	10.00000	14.00000	13.00000	-11.000	12.566	-89.321	-175.64	-629.68E-6
	11.00000	14.00000	13.00000	-11.073	12.566	-89.293	-175.60	-629.40E-6
	12.00000	14.00000	13.00000	-11.117	12.566	-89.203	-175.05	-631.36E-6
	13.00000	14.00000	13.00000	-11.134	12.566	-89.023	-173.90	-635.48E-6
	14.00000	14.00000	13.00000	-11.126	12.566	-88.692	-172.03	-641.46E-6
	15.00000	14.00000	13.00000	-11.093	12.566	-88.077	-169.19	-648.24E-6
	16.00000	14.00000	13.00000	-11.031	12.566	-86.875	-164.99	-652.34E-6
	17.00000	14.00000	13.00000	-10.935	12.566	-84.353	-158.84	-642.63E-6
	18.00000	14.00000	13.00000	-10.806	12.566	-78.766	-150.45	-585.52E-6
	19.00000	14.00000	13.00000	-10.689	12.566	-67.345	-144.02	-395.74E-6
	20.00000	14.00000	13.00000	-11.246	12.566	-89.854	-197.61	-490.80E-6
	21.00000	14.00000	13.00000	-11.792	12.566	-112.36	-251.15	-586.18E-6
	22.00000	14.00000	13.00000	-11.640	12.566	-100.94	-244.56	-397.36E-6
	23.00000	14.00000	13.00000	-11.450	12.566	-95.347	-235.92	-341.90E-6
	24.00000	14.00000	13.00000	-11.266	12.566	-92.819	-229.40	-334.62E-6
	25.00000	14.00000	13.00000	-11.081	12.566	-91.606	-224.67	-342.05E-6
	26.00000	14.00000	13.00000	-10.883	12.566	-90.376	-221.13	-353.31E-6
	27.00000	14.00000	13.00000	-10.660	12.566	-90.625	-218.33	-365.20E-6
	28.00000	14.00000	13.00000	-10.397	12.566	-90.415	-215.95	-377.18E-6
	29.00000	14.00000	13.00000	-10.077	12.566	-90.280	-213.69	-389.80E-6
	30.00000	14.00000	13.00000	-9.6735	12.566	-90.185	-211.25	-404.51E-6
	31.00000	14.00000	13.00000	-9.1512	12.566	-90.097	-208.06	-424.47E-6
	32.00000	14.00000	13.00000	-8.4483	12.566	-89.930	-202.67	-457.83E-6
	33.00000	14.00000	13.00000	-7.4405	12.566	-88.819	-188.75	-530.01E-6
	34.00000	14.00000	13.00000	-5.4781	12.566	-45.067	-108.55	-181.78E-6
	35.00000	14.00000	13.00000	-3.5185	12.566	-1.3204	-28.424	166.86E-6
	36.00000	14.00000	13.00000	-2.5187	12.566	-0.22637	-14.744	95.935E-6
	37.00000	14.00000	13.00000	-1.8294	12.566	-0.089846	-9.7574	64.716E-6
	38.00000	14.00000	13.00000	-1.3269	12.566	-0.051134	-7.1746	47.891E-6
	39.00000	14.00000	13.00000	-0.95023	12.566	-0.034507	-5.5904	37.425E-6
	40.00000	14.00000	13.00000	-0.66360	12.566	-0.025417	-4.5189	30.303E-6
	41.00000	14.00000	13.00000	-0.44356	12.566	-0.019672	-3.7470	25.155E-6
	42.00000	14.00000	13.00000	-0.27383	12.566	-0.015701	-3.1660	21.273E-6
	43.00000	14.00000	13.00000	-0.14269	12.566	-0.012794	-2.7144	18.253E-6
	44.00000	14.00000	13.00000	-0.041435	12.566	-0.010584	-2.3546	15.844E-6
	45.00000	14.00000	13.00000	0.036485	12.566	-0.0088589	-2.0624	13.886E-6
	46.00000	14.00000	13.00000	0.096088	12.566	-0.0074846	-1.8212	12.269E-6
	47.00000	14.00000	13.00000	0.14125	12.566	-0.0063734	-1.6196	10.917E-6
	48.00000	14.00000	13.00000	0.17500	12.566	-0.0054640	-1.4491	9.7722E-6
	49.00000	14.00000	13.00000	0.19972	12.566	-0.0047122	-1.3035	8.7947E-6
	50.00000	14.00000	13.00000	0.21728	12.566	-0.0040855	-1.1782	7.9526E-6
	51.00000	14.00000	13.00000	0.22918	12.566	-0.0035591	-1.0695	7.2219E-6
	52.00000	14.00000	13.00000	0.23661	12.566	-0.0031141	-0.97456	6.5836E-6
	53.00000	14.00000	13.00000	0.24051	12.566	-0.0027358	-0.89120	6.0227E-6
	54.00000	14.00000	13.00000	0.24165	12.566	-0.0024124	-0.81760	5.5273E-6
	55.00000	14.00000	13.00000	0.24064	12.566	-0.0021347	-0.75230	5.0876E-6
	-25.00000	15.00000	13.00000	0.21281	12.566	-0.0079123	-1.1343	7.5748E-6
	-24.00000	15.00000	13.00000	0.21592	12.566	-0.0092778	-1.2413	8.2767E-6
	-23.00000	15.00000	13.00000	0.21792	12.566	-0.010940	-1.3624	9.0687E-6
	-22.00000	15.00000	13.00000	0.21848	12.566	-0.012977	-1.5000	9.9658E-6
	-21.00000	15.00000	13.00000	0.21722	12.566	-0.015493	-1.6571	10.986E-6
	-20.00000	15.00000	13.00000	0.21363	12.566	-0.018628	-1.8373	12.151E-6
	-19.00000	15.00000	13.00000	0.20713	12.566	-0.022567	-2.0451	13.488E-6
	-18.00000	15.00000	13.00000	0.19697	12.566	-0.027566	-2.2860	15.029E-6
	-17.00000	15.00000	13.00000	0.18223	12.566	-0.033981	-2.5671	16.815E-6
	-16.00000	15.00000	13.00000	0.16177	12.566	-0.042309	-2.8972	18.896E-6
	-15.00000	15.00000	13.00000	0.13419	12.566	-0.053265	-3.2876	21.335E-6
	-14.00000	15.00000	13.00000	0.097729	12.566	-0.067892	-3.7532	24.211E-6
	-13.00000	15.00000	13.00000	0.050170	12.566	-0.087745	-4.3134	27.625E-6
	-12.00000	15.00000	13.00000	-0.011260	12.566	-0.11520	-4.9940	31.706E-6
	-11.00000	15.00000	13.00000	-0.090086	12.566	-0.15399	-5.8304	36.617E-6
	-10.00000	15.00000	13.00000	-0.19081	12.566	-0.21019	-6.8713	42.567E-6
	-9.00000	15.00000	13.00000	-0.31923	12.566	-0.29399	-8.1858	49.819E-6
	-8.00000	15.00000	13.00000	-0.48294	12.56			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	30.00000	15.00000	13.00000	-9.6462	12.566	-90.184	-405.12E-6
	31.00000	15.00000	13.00000	-9.1260	12.566	-90.096	-425.02E-6
	32.00000	15.00000	13.00000	-8.4252	12.566	-89.929	-458.32E-6
	33.00000	15.00000	13.00000	-7.4196	12.566	-88.819	-530.44E-6
	34.00000	15.00000	13.00000	-5.4596	12.566	-45.067	-182.16E-6
	35.00000	15.00000	13.00000	-3.5022	12.566	-1.3200	166.52E-6
	36.00000	15.00000	13.00000	-2.5046	12.566	-0.22601	95.644E-6
	37.00000	15.00000	13.00000	-1.8174	12.566	-0.089567	64.466E-6
	38.00000	15.00000	13.00000	-1.3168	12.566	-0.050913	47.678E-6
	39.00000	15.00000	13.00000	-0.94188	12.566	-0.034331	37.245E-6
	40.00000	15.00000	13.00000	-0.65676	12.566	-0.025277	30.150E-6
	41.00000	15.00000	13.00000	-0.43803	12.566	-0.019560	25.027E-6
	42.00000	15.00000	13.00000	-0.26942	12.566	-0.015611	21.165E-6
	43.00000	15.00000	13.00000	-0.13921	12.566	-0.012722	18.162E-6
	44.00000	15.00000	13.00000	-0.038732	12.566	-0.010526	15.767E-6
	45.00000	15.00000	13.00000	0.038553	12.566	-0.008119	13.821E-6
	46.00000	15.00000	13.00000	0.097640	12.566	-0.0074462	12.215E-6
	47.00000	15.00000	13.00000	0.14239	12.566	-0.0063419	10.870E-6
	48.00000	15.00000	13.00000	0.17581	12.566	-0.0054380	9.7326E-6
	49.00000	15.00000	13.00000	0.20027	12.566	-0.0046907	8.7608E-6
	50.00000	15.00000	13.00000	0.21762	12.566	-0.0040670	7.9235E-6
	51.00000	15.00000	13.00000	0.22936	12.566	-0.0035442	7.1968E-6
	52.00000	15.00000	13.00000	0.23666	12.566	-0.0031016	6.5619E-6
	53.00000	15.00000	13.00000	0.24047	12.566	-0.0027252	6.0040E-6
	54.00000	15.00000	13.00000	0.24154	12.566	-0.0024035	5.5110E-6
	55.00000	15.00000	13.00000	0.24048	12.566	-0.0021271	5.0733E-6
	-25.00000	16.00000	13.00000	0.21254	12.566	-0.0078445	-1.1282
	-24.00000	16.00000	13.00000	0.21569	12.566	-0.0091950	-1.2343
	-23.00000	16.00000	13.00000	0.21774	12.566	-0.010838	-1.3543
	-22.00000	16.00000	13.00000	0.21839	12.566	-0.012852	-1.4907
	-21.00000	16.00000	13.00000	0.21722	12.566	-0.015330	-1.6465
	-20.00000	16.00000	13.00000	0.21378	12.566	-0.018434	-1.8248
	-19.00000	16.00000	13.00000	0.20745	12.566	-0.022324	-2.0304
	-18.00000	16.00000	13.00000	0.19752	12.566	-0.027261	-2.2688
	-17.00000	16.00000	13.00000	0.18307	12.566	-0.033594	-2.5468
	-16.00000	16.00000	13.00000	0.16299	12.566	-0.041816	-2.8733
	-15.00000	16.00000	13.00000	0.13588	12.566	-0.052634	-3.2592
	-14.00000	16.00000	13.00000	0.10000	12.566	-0.067079	-3.7194
	-13.00000	16.00000	13.00000	0.053173	12.566	-0.086694	-4.2730
	-12.00000	16.00000	13.00000	-0.0073529	12.566	-0.11384	-4.9456
	-11.00000	16.00000	13.00000	-0.085065	12.566	-0.15222	-5.7725
	-10.00000	16.00000	13.00000	-0.18443	12.566	-0.20787	-6.8013
	-9.00000	16.00000	13.00000	-0.31120	12.566	-0.29096	-8.1016
	-8.00000	16.00000	13.00000	-0.47293	12.566	-0.41940	-9.7730
	-7.00000	16.00000	13.00000	-0.67963	12.566	-0.62633	-11.965
	-6.00000	16.00000	13.00000	-0.94493	12.566	-0.97685	-14.911
	-5.00000	16.00000	13.00000	-1.2878	12.566	-1.6077	-18.985
	-4.00000	16.00000	13.00000	-1.7357	12.566	-2.8280	-24.808
	-3.00000	16.00000	13.00000	-2.3300	12.566	-5.3842	-33.440
	-2.00000	16.00000	13.00000	-3.1329	12.566	-11.100	-46.604
	-1.00000	16.00000	13.00000	-4.2212	12.566	-23.600	-66.383
	0.00000	16.00000	13.00000	-5.5822	12.566	-44.819	-92.448
	1.00000	16.00000	13.00000	-6.9425	12.566	-66.036	-118.49
	2.00000	16.00000	13.00000	-8.0289	12.566	-78.535	-138.19
	3.00000	16.00000	13.00000	-8.8285	12.566	-84.246	-151.23
	4.00000	16.00000	13.00000	-9.4178	12.566	-86.799	-159.67
	5.00000	16.00000	13.00000	-9.8590	12.566	-88.006	-165.25
	6.00000	16.00000	13.00000	-10.193	12.566	-88.624	-168.99
	7.00000	16.00000	13.00000	-10.447	12.566	-88.955	-171.52
	8.00000	16.00000	13.00000	-10.640	12.566	-89.136	-173.19
	9.00000	16.00000	13.00000	-10.783	12.566	-89.226	-174.20
	10.00000	16.00000	13.00000	-10.888	12.566	-89.254	-174.66
	11.00000	16.00000	13.00000	-10.959	12.566	-89.227	-174.62
	12.00000	16.00000	13.00000	-11.002	12.566	-89.138	-174.07
	13.00000	16.00000	13.00000	-11.019	12.566	-88.959	-172.94
	14.00000	16.00000	13.00000	-11.011	12.566	-88.630	-171.09
	15.00000	16.00000	13.00000	-10.977	12.566	-88.018	-168.28
	16.00000	16.00000	13.00000	-10.916	12.566	-86.819	-164.11
	17.00000	16.00000	13.00000	-10.822	12.566	-84.301	-158.01
	18.00000	16.00000	13.00000	-10.693	12.566	-78.718	-149.66
	19.00000	16.00000	13.00000	-10.578	12.566	-67.300	-143.28
	20.00000	16.00000	13.00000	-11.137	12.566	-89.818	-196.92
	21.00000	16.00000	13.00000	-11.685	12.566	-112.33	-250.52
	22.00000	16.00000	13.00000	-11.535	12.566	-100.91	-243.99
	23.00000	16.00000	13.00000	-11.348	12.566	-95.326	-235.40
	24.00000	16.00000	13.00000	-11.167	12.566	-92.801	-228.93
	25.00000	16.00000	13.00000	-10.985	12.566	-91.592	-224.24
	26.00000	16.00000	13.00000	-10.791	12.566	-90.965	-220.75
	27.00000	16.00000	13.00000	-10.571	12.566	-90.616	-217.98
	28.00000	16.00000	13.00000	-10.313	12.566	-90.408	-215.63
	29.00000	16.00000	13.00000	-9.9968	12.566	-90.270	-213.47
	30.00000	16.00000	13.00000	-9.5989	12.566	-90.181	-211.00
	31.00000	16.00000	13.00000	-9.0823	12.566	-90.094	-207.83
	32.00000	16.00000	13.00000	-8.3853	12.566	-89.927	-202.46
	33.00000	16.00000	13.00000	-7.3836	12.566	-88.817	-188.57
	34.00000	16.00000	13.00000	-5.4276	12.566	-45.066	-108.39
	35.00000	16.00000	13.00000	-3.4742	12.566	-1.3192	-28.287
	36.00000	16.00000	13.00000	-2.4805	12.566	-0.22542	-14.625
	37.00000	16.00000	13.00000	-1.7970	12.566	-0.089096	-9.6560
	38.00000	16.00000	13.00000	-1.2997	12.566	-0.050541	-7.0885
	39.00000	16.00000	13.00000	-0.92770	12.566	-0.034037	-5.5177
	40.00000	16.00000	13.00000	-0.64519	12.566	-0.025044	-4.4578
	41.00000	16.00000	13.00000	-0.42871	12.566	-0.019374	-3.6956
	42.00000	16.00000	13.00000	-0.26200	12.566	-0.015462	-3.1229
	43.00000	16.00000	13.00000	-0.13338	12.566	-0.012603	-2.6782
	44.00000	16.00000	13.00000	0.034207	12.566	-0.010430	-2.3242
	45.00000	16.00000	13.00000	0.042008	12.566	-0.0087336	-2.0368
	46.00000	16.00000	13.00000	0.10023	12.566	-0.0073825	-1.7996
	47.00000	16.00000	13.00000	0.14428	12.566	-0.0062897	-1.6012
	48.00000	16.00000	13.00000	0.17715	12.566	-0.0053951	-1.4335
	49.00000	16.00000	13.00000	0.20117	12.566	-0.0046558	-1.2907
	50.00000	16.00000	13.00000	0.21818	12.566	-0.0040380	-1.1667
	51.00000	16.00000	13.00000	0.22966	12.566	-0.0035195	-1.0596
	52.00000	16.00000	13.00000	0.23675	12.566	-0.0030809	-0.9602
	53.00000	16.00000	13.00000	0.24041	12.566	-0.0027078	-0.88379
	54.00000	16.00000	13.00000	0.24136	12.566	-0.0023887	-0.81115
	55.00000	16.00000	13.00000	0.24022	12.566	-0.0021145	-0.74666
	-25.00000	17.00000	13.00000	0.21215	12.566	-0.0077505	-1.1197
	-24.00000	17.00000	13.00000	0.21536	12.566	-0.0090803	-1.2246
	-23.00000	17.00000	13.00000	0.21749	12.566	-0.010697	-1.3432
	-22.00000	17.00000	13.00000	0.21824	12.566	-0.012678	-1.4778
	-21.00000	17.00000	13.00000	0.21723	12.566	-0.015123	-1.6314
	-20.00000	17.00000	13.00000	0.21397	12.566	-0.018165	-1.8073
	-19.00000	17.00000	13.00000	0.20789	12.566	-0.021987	-2.0101
	-18.00000	17.00000	13.00000	0.19828	12.566	-0.026836	-2.2449
	-17.00000	17.00000	13.00000	0.18424	12.566	-0.033055	-2.5187
	-16.00000	17.00000	13.00000	0.16467	12.566	-0.041128	-2.8399
	-15.00000	17.00000	13.00000	0.13822	12.566	-0.051750	-3.2197
	-14.00000	17.00000	13.00000	0.10316	12.566	-0.065938	-3.6723
	-13.00000	17.00000	13.00000	0.057357	12.566	-0.085212	-4.2166
	-12.00000	17.00000	13.00000	-0.0018947	12.566	-0.111190	-4.8780
	-11.00000	17.00000	13.00000	-0.078033	12.566	-0.14968	-5.6908
	-10.00000	17.00000	13.00000	-0.17546	12.566	-0.20453	-6.7031
	-9.00000	17.00000	13.00000	-0.29988	12.566	-0.28656	-7.9828
	-8.00000	17.00000	13.00000	-0.45876	12.566	-0.41358	-9.6292
	-7.00000	17.00000	13.00000	-0.66207	12.566	-0.61865	-11.791
	-6.00000	17.00000	13.00000	-0.92334	12.566	-0.96676	-14.701
	-5.00000	17.00000	13.00000	-1.2615	12.566	-1.	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-2.00000	17.00000	13.00000	-3.0888	12.566	-11.073	-88.434E-6
	-1.00000	17.00000	13.00000	-4.1702	12.566	-23.568	-32.783E-6
	0.00000	17.00000	13.00000	-5.5240	12.566	-44.780	-289.52E-6
	1.00000	17.00000	13.00000	-6.8772	12.566	-65.991	-546.40E-6
	2.00000	17.00000	13.00000	-7.9567	12.566	-78.483	-668.07E-6
	3.00000	17.00000	13.00000	-8.7498	12.566	-84.189	-696.32E-6
	4.00000	17.00000	13.00000	-9.3333	12.566	-86.734	-691.15E-6
	5.00000	17.00000	13.00000	-9.7693	12.566	-87.941	-678.14E-6
	6.00000	17.00000	13.00000	-10.099	12.566	-88.556	-665.41E-6
	7.00000	17.00000	13.00000	-10.349	12.566	-88.885	-655.10E-6
	8.00000	17.00000	13.00000	-10.539	12.566	-89.064	-647.55E-6
	9.00000	17.00000	13.00000	-10.680	12.566	-89.154	-642.60E-6
	10.00000	17.00000	13.00000	-10.782	12.566	-89.182	-640.07E-6
	11.00000	17.00000	13.00000	-10.852	12.566	-89.155	-639.80E-6
	12.00000	17.00000	13.00000	-10.894	12.566	-89.066	-641.70E-6
	13.00000	17.00000	13.00000	-10.911	12.566	-88.889	-645.68E-6
	14.00000	17.00000	13.00000	-10.903	12.566	-88.562	-651.46E-6
	15.00000	17.00000	13.00000	-10.870	12.566	-87.953	-657.97E-6
	16.00000	17.00000	13.00000	-10.809	12.566	-86.757	-661.73E-6
	17.00000	17.00000	13.00000	-10.715	12.566	-84.244	-651.62E-6
	18.00000	17.00000	13.00000	-10.588	12.566	-78.667	-594.07E-6
	19.00000	17.00000	13.00000	-10.475	12.566	-67.257	-403.80E-6
	20.00000	17.00000	13.00000	-11.035	12.566	-89.778	-498.36E-6
	21.00000	17.00000	13.00000	-11.585	12.566	-112.30	-593.21E-6
	22.00000	17.00000	13.00000	-11.438	12.566	-100.89	-403.87E-6
	23.00000	17.00000	13.00000	-11.253	12.566	-95.303	-347.91E-6
	24.00000	17.00000	13.00000	-11.074	12.566	-92.784	-340.14E-6
	25.00000	17.00000	13.00000	-10.895	12.566	-91.578	-347.13E-6
	26.00000	17.00000	13.00000	-10.704	12.566	-90.955	-357.96E-6
	27.00000	17.00000	13.00000	-10.488	12.566	-90.608	-369.46E-6
	28.00000	17.00000	13.00000	-10.223	12.566	-90.400	-381.08E-6
	29.00000	17.00000	13.00000	-9.9218	12.566	-90.270	-393.35E-6
	30.00000	17.00000	13.00000	-9.5288	12.566	-90.177	-407.73E-6
	31.00000	17.00000	13.00000	-9.0174	12.566	-90.091	-427.38E-6
	32.00000	17.00000	13.00000	-8.3261	12.566	-89.925	-460.44E-6
	33.00000	17.00000	13.00000	-7.3204	12.566	-88.816	-532.32E-6
	34.00000	17.00000	13.00000	-5.3805	12.566	-45.064	-183.81E-6
	35.00000	17.00000	13.00000	-3.4332	12.566	-1.3181	165.09E-6
	36.00000	17.00000	13.00000	-2.4453	12.566	-0.22456	94.416E-6
	37.00000	17.00000	13.00000	-1.7672	12.566	-0.088421	63.420E-6
	38.00000	17.00000	13.00000	-1.2748	12.566	-0.050011	46.793E-6
	39.00000	17.00000	13.00000	-0.90730	12.566	-0.033619	36.501E-6
	40.00000	17.00000	13.00000	-0.62863	12.566	-0.024714	29.527E-6
	41.00000	17.00000	13.00000	-0.41542	12.566	-0.019113	24.505E-6
	42.00000	17.00000	13.00000	-0.25147	12.566	-0.015254	20.729E-6
	43.00000	17.00000	13.00000	-0.12513	12.566	-0.012433	17.794E-6
	44.00000	17.00000	13.00000	-0.027837	12.566	-0.010296	15.461E-6
	45.00000	17.00000	13.00000	0.046855	12.566	-0.0086248	13.563E-6
	46.00000	17.00000	13.00000	0.10385	12.566	-0.0072939	11.997E-6
	47.00000	17.00000	13.00000	0.14692	12.566	-0.0062172	10.686E-6
	48.00000	17.00000	13.00000	0.17901	12.566	-0.0053354	9.5756E-6
	49.00000	17.00000	13.00000	0.20242	12.566	-0.0046058	8.6267E-6
	50.00000	17.00000	13.00000	0.21896	12.566	-0.0039970	7.8085E-6
	51.00000	17.00000	13.00000	0.23006	12.566	-0.0034852	7.0977E-6
	52.00000	17.00000	13.00000	0.23687	12.566	-0.0030521	6.4762E-6
	53.00000	17.00000	13.00000	0.24031	12.566	-0.0026935	5.9296E-6
	54.00000	17.00000	13.00000	0.24111	12.566	-0.0023682	5.4461E-6
	55.00000	17.00000	13.00000	0.23984	12.566	-0.0020971	5.0166E-6
	-25.00000	18.00000	13.00000	0.21165	12.566	-0.0076313	7.4082E-6
	-24.00000	18.00000	13.00000	0.21493	12.566	-0.0089347	8.0859E-6
	-23.00000	18.00000	13.00000	0.21717	12.566	-0.010511	8.8495E-6
	-22.00000	18.00000	13.00000	0.21805	12.566	-0.012458	9.7131E-6
	-21.00000	18.00000	13.00000	0.21722	12.566	-0.014849	10.694E-6
	-20.00000	18.00000	13.00000	0.21420	12.566	-0.017824	11.812E-6
	-19.00000	18.00000	13.00000	0.20844	12.566	-0.021559	13.093E-6
	-18.00000	18.00000	13.00000	0.19923	12.566	-0.026294	14.567E-6
	-17.00000	18.00000	13.00000	0.18571	12.566	-0.032366	16.273E-6
	-16.00000	18.00000	13.00000	0.16680	12.566	-0.040247	18.258E-6
	-15.00000	18.00000	13.00000	0.14118	12.566	-0.050615	20.582E-6
	-14.00000	18.00000	13.00000	0.10718	12.566	-0.064466	23.319E-6
	-13.00000	18.00000	13.00000	0.062698	12.566	-0.082290	26.565E-6
	-12.00000	18.00000	13.00000	0.0050929	12.566	-0.10938	30.443E-6
	-11.00000	18.00000	13.00000	-0.069001	12.566	-0.14634	35.108E-6
	-10.00000	18.00000	13.00000	-0.16390	12.566	-0.20009	40.762E-6
	-9.00000	18.00000	13.00000	-0.28522	12.566	-0.28062	47.656E-6
	-8.00000	18.00000	13.00000	-0.44033	12.566	-0.40562	56.093E-6
	-7.00000	18.00000	13.00000	-0.63908	12.566	-0.60797	66.427E-6
	-6.00000	18.00000	13.00000	-0.89492	12.566	-0.95243	78.886E-6
	-5.00000	18.00000	13.00000	-1.2267	12.566	-1.5754	93.222E-6
	-4.00000	18.00000	13.00000	-1.6619	12.566	-2.7857	107.36E-6
	-3.00000	18.00000	13.00000	-2.2418	12.566	-5.3295	113.24E-6
	-2.00000	18.00000	13.00000	-3.0290	12.566	-11.031	85.325E-6
	-1.00000	18.00000	13.00000	-4.1005	12.566	-23.515	-36.357E-6
	0.00000	18.00000	13.00000	-5.4441	12.566	-44.716	-293.57E-6
	1.00000	18.00000	13.00000	-6.7872	12.566	-65.916	-550.92E-6
	2.00000	18.00000	13.00000	-7.8569	12.566	-78.298	-673.05E-6
	3.00000	18.00000	13.00000	-8.6409	12.566	-84.095	-701.72E-6
	4.00000	18.00000	13.00000	-9.2161	12.566	-86.633	-696.92E-6
	5.00000	18.00000	13.00000	-9.6449	12.566	-87.834	-684.24E-6
	6.00000	18.00000	13.00000	-9.9684	12.566	-88.444	-671.78E-6
	7.00000	18.00000	13.00000	-10.214	12.566	-88.770	-661.68E-6
	8.00000	18.00000	13.00000	-10.399	12.566	-88.947	-654.28E-6
	9.00000	18.00000	13.00000	-10.537	12.566	-89.035	-649.44E-6
	10.00000	18.00000	13.00000	-10.637	12.566	-89.063	-646.96E-6
	11.00000	18.00000	13.00000	-10.705	12.566	-89.036	-646.70E-6
	12.00000	18.00000	13.00000	-10.746	12.566	-88.949	-648.56E-6
	13.00000	18.00000	13.00000	-10.762	12.566	-88.774	-652.45E-6
	14.00000	18.00000	13.00000	-10.754	12.566	-88.450	-658.09E-6
	15.00000	18.00000	13.00000	-10.721	12.566	-87.845	-664.42E-6
	16.00000	18.00000	13.00000	-10.661	12.566	-86.655	-667.96E-6
	17.00000	18.00000	13.00000	-10.569	12.566	-84.150	-657.59E-6
	18.00000	18.00000	13.00000	-10.444	12.566	-78.581	-599.74E-6
	19.00000	18.00000	13.00000	-10.332	12.566	-67.182	-409.15E-6
	20.00000	18.00000	13.00000	-10.895	12.566	-89.714	-503.37E-6
	21.00000	18.00000	13.00000	-11.447	12.566	-112.24	-597.88E-6
	22.00000	18.00000	13.00000	-11.303	12.566	-100.93	-408.20E-6
	23.00000	18.00000	13.00000	-11.121	12.566	-95.270	-331.90E-6
	24.00000	18.00000	13.00000	-10.946	12.566	-92.758	-343.83E-6
	25.00000	18.00000	13.00000	-10.771	12.566	-91.559	-350.52E-6
	26.00000	18.00000	13.00000	-10.584	12.566	-90.940	-361.08E-6
	27.00000	18.00000	13.00000	-10.373	12.566	-90.597	-372.33E-6
	28.00000	18.00000	13.00000	-10.123	12.566	-90.393	-383.71E-6
	29.00000	18.00000	13.00000	-9.8176	12.566	-90.264	-395.76E-6
	30.00000	18.00000	13.00000	-9.4312	12.566	-90.172	-409.92E-6
	31.00000	18.00000	13.00000	-8.9272	12.566	-90.087	-429.36E-6
	32.00000	18.00000	13.00000	-8.2439	12.566	-89.922	-462.21E-6
	33.00000	18.00000	13.00000	-7.2568	12.566	-88.813	-533.88E-6
	34.00000	18.00000	13.00000	-5.3156	12.566	-45.062	-185.17E-6
	35.00000	18.00000	13.00000	-3.3769	12.566	-1.3167	163.92E-6
	36.00000	18.00000	13.00000	-2.3973	12.566	-0.22340	93.418E-6
	37.00000	18.00000	13.00000	-1.7269	12.566	-0.087520	62.581E-6
	38.00000	18.00000	13.00000	-1.2416	12.566	-0.049310	46.093E-6
	39.00000	18.00000	13.00000	-0.88015	12.566	-0.033071	35.920E-6
	40.00000	18.00000	13.00000	-0.60675	12.566	-0.024284	29.045E-6
	41.00000	18.00000	13.00000	-0.39798	12.566	-0.018774	24.106E-6
	42.00000	18.00000	13.00000	-0.23772	12.566	-0.014986	20.399E-6
	43.00000	18.00000					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
47.00000	18.00000	13.00000	0.15030	12.566	-0.0061249	-1.5649	10.549E-6
48.00000	18.00000	13.00000	0.18139	12.566	-0.0052595	-1.4026	9.4592E-6
49.00000	18.00000	13.00000	0.20401	12.566	-0.0045431	-1.2638	8.5273E-6
50.00000	18.00000	13.00000	0.21993	12.566	-0.0039448	-1.1441	7.7233E-6
51.00000	18.00000	13.00000	0.23056	12.566	-0.0034416	-1.0402	7.0244E-6
52.00000	18.00000	13.00000	0.23701	12.566	-0.0030155	-0.94923	6.4128E-6
53.00000	18.00000	13.00000	0.24018	12.566	-0.0026527	-0.86922	5.8745E-6
54.00000	18.00000	13.00000	0.24077	12.566	-0.0023421	-0.79845	5.3982E-6
55.00000	18.00000	13.00000	0.23936	12.566	-0.0020749	-0.73555	4.9746E-6
-25.00000	19.00000	13.00000	0.21104	12.566	-0.0074881	-1.0961	7.3229E-6
-24.00000	19.00000	13.00000	0.21440	12.566	-0.0087598	-1.1974	7.9883E-6
-23.00000	19.00000	13.00000	0.21676	12.566	-0.010304	-1.3119	8.7374E-6
-22.00000	19.00000	13.00000	0.21780	12.566	-0.012193	-1.4417	9.5839E-6
-21.00000	19.00000	13.00000	0.21719	12.566	-0.014520	-1.5894	10.544E-6
-20.00000	19.00000	13.00000	0.21446	12.566	-0.017413	-1.7585	11.638E-6
-19.00000	19.00000	13.00000	0.20907	12.566	-0.021042	-1.9530	12.891E-6
-18.00000	19.00000	13.00000	0.20035	12.566	-0.025641	-2.1780	14.331E-6
-17.00000	19.00000	13.00000	0.18746	12.566	-0.031534	-2.4398	15.996E-6
-16.00000	19.00000	13.00000	0.16935	12.566	-0.039178	-2.7465	17.932E-6
-15.00000	19.00000	13.00000	0.14475	12.566	-0.049233	-3.1086	20.196E-6
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-13.00000	19.00000	13.00000	0.069154	12.566	-0.080925	-4.0574	26.019E-6
-12.00000	19.00000	13.00000	0.013570	12.566	-0.10624	-4.6862	29.790E-6
-11.00000	19.00000	13.00000	-0.057999	12.566	-0.14216	-5.4587	34.324E-6
-10.00000	19.00000	13.00000	-0.14976	12.566	-0.19446	-6.4210	39.818E-6
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1.00000	19.00000	13.00000	-6.6669	12.566	-65.792	-115.74	-556.83E-6
2.00000	19.00000	13.00000	-7.7230	12.566	-78.255	-135.14	-679.56E-6
3.00000	19.00000	13.00000	-8.4944	12.566	-83.936	-147.89	-708.80E-6
4.00000	19.00000	13.00000	-9.0585	12.566	-86.461	-156.10	-704.50E-6
5.00000	19.00000	13.00000	-9.4777	12.566	-87.653	-161.47	-692.26E-6
6.00000	19.00000	13.00000	-9.7920	12.566	-88.256	-165.00	-680.15E-6
7.00000	19.00000	13.00000	-10.032	12.566	-88.577	-167.46	-670.33E-6
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9.00000	19.00000	13.00000	-10.345	12.566	-88.838	-169.98	-658.43E-6
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12.00000	19.00000	13.00000	-10.547	12.566	-88.753	-169.85	-657.57E-6
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14.00000	19.00000	13.00000	-10.554	12.566	-88.262	-167.02	-666.81E-6
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19.00000	19.00000	13.00000	-10.141	12.566	-67.057	-140.15	-416.22E-6
20.00000	19.00000	13.00000	-10.708	12.566	-89.609	-194.05	-510.01E-6
21.00000	19.00000	13.00000	-11.264	12.566	-112.16	-247.91	-604.09E-6
22.00000	19.00000	13.00000	-11.123	12.566	-100.78	-241.64	-413.97E-6
23.00000	19.00000	13.00000	-10.946	12.566	-95.219	-233.28	-357.25E-6
24.00000	19.00000	13.00000	-10.775	12.566	-92.720	-227.03	-348.77E-6
25.00000	19.00000	13.00000	-10.604	12.566	-91.530	-222.53	-355.08E-6
26.00000	19.00000	13.00000	-10.423	12.566	-90.919	-219.93	-365.29E-6
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28.00000	19.00000	13.00000	-9.9750	12.566	-90.381	-214.36	-387.29E-6
29.00000	19.00000	13.00000	-9.6773	12.566	-90.255	-212.26	-399.05E-6
30.00000	19.00000	13.00000	-9.2998	12.566	-90.166	-209.96	-412.94E-6
31.00000	19.00000	13.00000	-8.8057	12.566	-90.081	-206.90	-432.08E-6
32.00000	19.00000	13.00000	-8.1335	12.566	-89.918	-201.63	-464.65E-6
33.00000	19.00000	13.00000	-7.1581	12.566	-88.810	-187.84	-536.03E-6
34.00000	19.00000	13.00000	-5.2290	12.566	-45.060	-107.76	-187.03E-6
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37.00000	19.00000	13.00000	-1.6747	12.566	-0.086362	-9.2733	61.484E-6
38.00000	19.00000	13.00000	-1.1988	12.566	-0.048417	-6.7708	45.192E-6
39.00000	19.00000	13.00000	-0.84561	12.566	-0.032382	-5.2550	35.181E-6
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41.00000	19.00000	13.00000	-0.37617	12.566	-0.018357	-3.161	23.610E-6
42.00000	19.00000	13.00000	-0.22066	12.566	-0.014657	-2.9746	19.989E-6
43.00000	19.00000	13.00000	-0.10121	12.566	-0.011961	-2.5551	17.183E-6
44.00000	19.00000	13.00000	-0.0094936	12.566	-0.0099154	-2.2216	14.950E-6
45.00000	19.00000	13.00000	0.060722	12.566	-0.0083181	-1.9509	13.137E-6
46.00000	19.00000	13.00000	0.11415	12.566	-0.0070449	-1.7275	11.638E-6
47.00000	19.00000	13.00000	0.15439	12.566	-0.0060137	-1.5402	10.383E-6
48.00000	19.00000	13.00000	0.18425	12.566	-0.0051681	-1.3817	9.3185E-6
49.00000	19.00000	13.00000	0.20591	12.566	-0.0044675	-1.2460	8.4074E-6
50.00000	19.00000	13.00000	0.22109	12.566	-0.0038820	-1.1289	7.6206E-6
51.00000	19.00000	13.00000	0.23115	12.566	-0.0033891	-1.0270	6.9360E-6
52.00000	19.00000	13.00000	0.23717	12.566	-0.0029715	-0.93789	6.3364E-6
53.00000	19.00000	13.00000	0.24000	12.566	-0.0026156	-0.85938	5.8082E-6
54.00000	19.00000	13.00000	0.24035	12.566	-0.0023106	-0.78988	5.3403E-6
55.00000	19.00000	13.00000	0.23876	12.566	-0.0020482	-0.72805	4.9240E-6
-25.00000	20.00000	13.00000	0.21032	12.566	-0.0073223	-1.0812	7.2238E-6
-24.00000	20.00000	13.00000	0.21377	12.566	-0.0085575	-1.1802	7.8749E-6
-23.00000	20.00000	13.00000	0.21626	12.566	-0.010056	-1.2921	8.6072E-6
-22.00000	20.00000	13.00000	0.21749	12.566	-0.011886	-1.4188	9.4339E-6
-21.00000	20.00000	13.00000	0.21713	12.566	-0.014139	-1.5629	10.371E-6
-20.00000	20.00000	13.00000	0.21473	12.566	-0.016937	-1.7276	11.437E-6
-19.00000	20.00000	13.00000	0.20978	12.566	-0.020443	-1.9169	12.657E-6
-18.00000	20.00000	13.00000	0.20163	12.566	-0.024881	-2.1356	14.057E-6
-17.00000	20.00000	13.00000	0.18946	12.566	-0.030564	-2.3898	15.675E-6
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-15.00000	20.00000	13.00000	0.14886	12.566	-0.047616	-3.0386	19.748E-6
-14.00000	20.00000	13.00000	0.11764	12.566	-0.060541	-3.4551	22.328E-6
-13.00000	20.00000	13.00000	0.076665	12.566	-0.078115	-3.9557	25.383E-6
-12.00000	20.00000	13.00000	0.023472	12.566	-0.10249	-4.5630	29.027E-6
-11.00000	20.00000	13.00000	-0.045092	12.566	-0.13709	-5.3088	33.405E-6
-10.00000	20.00000	13.00000	-0.13109	12.566	-0.18134	-6.2374	38.701E-6
-9.00000	20.00000	13.00000	-0.24582	12.566	-0.26343	-7.4127	45.171E-6
-8.00000	20.00000	13.00000	-0.39030	12.566	-0.38187	-8.9286	53.086E-6
-7.00000	20.00000	13.00000	-0.57596	12.566	-0.57489	-10.928	62.773E-6
-6.00000	20.00000	13.00000	-0.81585	12.566	-0.90609	-13.634	74.457E-6
-5.00000	20.00000	13.00000	-1.1284	12.566	-1.5100	-17.418	87.872E-6
-4.00000	20.00000	13.00000	-1.5408	12.566	-2.6948	-22.882	100.93E-6
-3.00000	20.00000	13.00000	-2.0941	12.566	-5.2039	-31.093	105.60E-6
-2.00000	20.00000	13.00000	-2.8513	12.566	-10.860	-43.774	76.345E-6
-1.00000	20.00000	13.00000	-3.8901	12.566	-23.292	-63.020	-46.758E-6
0.00000	20.00000	13.00000	-5.1996	12.566	-44.434	-88.524	-305.43E-6</



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
15.00000	20.00000	13.00000	-10.262	12.566	-87.348	-161.81	-683.64E-6
16.00000	20.00000	13.00000	-10.204	12.566	-86.183	-157.90	-686.52E-6
17.00000	20.00000	13.00000	-10.117	12.566	-83.712	-152.12	-675.41E-6
18.00000	20.00000	13.00000	-9.9967	12.566	-78.187	-144.14	-616.73E-6
19.00000	20.00000	13.00000	-9.8915	12.566	-66.840	-138.17	-425.26E-6
20.00000	20.00000	13.00000	-10.462	12.566	-89.430	-192.26	-518.58E-6
21.00000	20.00000	13.00000	-11.022	12.566	-112.02	-246.31	-612.17E-6
22.00000	20.00000	13.00000	-10.887	12.566	-100.67	-240.21	-421.55E-6
23.00000	20.00000	13.00000	-10.715	12.566	-95.141	-232.01	-364.33E-6
24.00000	20.00000	13.00000	-10.549	12.566	-92.664	-225.49	-355.36E-6
25.00000	20.00000	13.00000	-10.385	12.566	-91.490	-221.51	-361.21E-6
26.00000	20.00000	13.00000	-10.210	12.566	-90.890	-218.28	-370.99E-6
27.00000	20.00000	13.00000	-10.012	12.566	-90.560	-215.75	-381.51E-6
28.00000	20.00000	13.00000	-9.7784	12.566	-90.366	-213.60	-392.20E-6
29.00000	20.00000	13.00000	-9.4907	12.566	-90.243	-211.56	-403.59E-6
30.00000	20.00000	13.00000	-9.1248	12.566	-90.156	-209.32	-417.11E-6
31.00000	20.00000	13.00000	-8.6440	12.566	-90.074	-206.32	-435.87E-6
32.00000	20.00000	13.00000	-7.9867	12.566	-89.912	-201.12	-468.03E-6
33.00000	20.00000	13.00000	-7.0276	12.566	-88.805	-187.40	-538.99E-6
34.00000	20.00000	13.00000	-5.1155	12.566	-45.056	-107.38	-189.56E-6
35.00000	20.00000	13.00000	-3.2058	12.566	-1.3121	-27.426	160.22E-6
36.00000	20.00000	13.00000	-2.2538	12.566	-0.21991	-13.907	90.354E-6
37.00000	20.00000	13.00000	-1.6086	12.566	-0.084873	-9.0619	60.073E-6
38.00000	20.00000	13.00000	-1.1454	12.566	-0.047298	-6.6006	44.054E-6
39.00000	20.00000	13.00000	-0.80297	12.566	-0.031536	-5.1183	34.266E-6
40.00000	20.00000	13.00000	-0.54547	12.566	-0.023104	-4.1307	27.702E-6
41.00000	20.00000	13.00000	-0.34980	12.566	-0.017859	-3.4273	23.012E-6
42.00000	20.00000	13.00000	-0.20019	12.566	-0.014269	-2.9020	19.502E-6
43.00000	20.00000	13.00000	-0.085487	12.566	-0.011655	-2.4956	16.784E-6
44.00000	20.00000	13.00000	0.0024606	12.566	-0.0096717	-2.1725	14.620E-6
45.00000	20.00000	13.00000	0.069689	12.566	-0.0081224	-1.9101	12.862E-6
46.00000	20.00000	13.00000	0.12076	12.566	-0.0068864	-1.6932	11.408E-6
47.00000	20.00000	13.00000	0.15915	12.566	-0.0058844	-1.5115	10.189E-6
48.00000	20.00000	13.00000	0.18757	12.566	-0.0050619	-1.3573	9.1547E-6
49.00000	20.00000	13.00000	0.20811	12.566	-0.0043798	-1.2253	8.2679E-6
50.00000	20.00000	13.00000	0.22242	12.566	-0.0038091	-1.1112	7.5011E-6
51.00000	20.00000	13.00000	0.23181	12.566	-0.0033283	-1.0118	6.8332E-6
52.00000	20.00000	13.00000	0.23732	12.566	-0.0029204	-0.92471	6.2476E-6
53.00000	20.00000	13.00000	0.23977	12.566	-0.0025725	-0.84794	5.7310E-6
54.00000	20.00000	13.00000	0.23984	12.566	-0.0022741	-0.77991	5.2731E-6
55.00000	20.00000	13.00000	0.23805	12.566	-0.0020171	-0.71933	4.8652E-6
-25.00000	21.00000	13.00000	0.20947	12.566	-0.0071357	-1.0640	7.1117E-6
-24.00000	21.00000	13.00000	0.21303	12.566	-0.0083297	-1.1607	7.7467E-6
-23.00000	21.00000	13.00000	0.21567	12.566	-0.0097761	-1.2697	8.4601E-6
-22.00000	21.00000	13.00000	0.21711	12.566	-0.011541	-1.3929	9.2646E-6
-21.00000	21.00000	13.00000	0.21703	12.566	-0.013701	-1.5329	10.175E-6
-20.00000	21.00000	13.00000	0.21501	12.566	-0.016401	-1.6928	11.211E-6
-19.00000	21.00000	13.00000	0.21054	12.566	-0.019767	-1.8762	12.392E-6
-18.00000	21.00000	13.00000	0.20302	12.566	-0.024023	-2.0877	13.749E-6
-17.00000	21.00000	13.00000	0.19167	12.566	-0.029465	-2.3333	15.312E-6
-16.00000	21.00000	13.00000	0.17555	12.566	-0.036511	-2.6203	17.126E-6
-15.00000	21.00000	13.00000	0.15347	12.566	-0.045764	-2.9582	19.241E-6
-14.00000	21.00000	13.00000	0.12395	12.566	-0.058107	-3.3594	21.725E-6
-13.00000	21.00000	13.00000	0.085144	12.566	-0.074873	-3.8403	24.662E-6
-12.00000	21.00000	13.00000	0.034698	12.566	-0.098118	-4.4229	28.160E-6
-11.00000	21.00000	13.00000	-0.030390	12.566	-0.131232	-5.1375	32.359E-6
-10.00000	21.00000	13.00000	-0.11399	12.566	-0.17927	-6.0265	37.437E-6
-9.00000	21.00000	13.00000	-0.22118	12.566	-0.25181	-7.1510	43.623E-6
-8.00000	21.00000	13.00000	-0.35867	12.566	-0.36527	-8.6012	51.193E-6
-7.00000	21.00000	13.00000	-0.53557	12.566	-0.55080	-10.515	60.452E-6
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-5.00000	21.00000	13.00000	-1.0634	12.566	-1.14576	-16.746	84.392E-6
-4.00000	21.00000	13.00000	-1.4590	12.566	-2.6159	-22.026	96.710E-6
-3.00000	21.00000	13.00000	-1.9922	12.566	-5.0865	-30.000	100.54E-6
-2.00000	21.00000	13.00000	-2.7258	12.566	-10.689	-42.388	10.388E-6
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0.00000	21.00000	13.00000	-5.0196	12.566	-44.116	-86.427	-313.21E-6
1.00000	21.00000	13.00000	-6.3004	12.566	-65.178	-111.54	-572.92E-6
2.00000	21.00000	13.00000	-7.3112	12.566	-77.539	-130.38	-697.34E-6
3.00000	21.00000	13.00000	-8.0420	12.566	-83.138	-142.66	-728.17E-6
4.00000	21.00000	13.00000	-8.5712	12.566	-85.603	-150.47	-725.32E-6
5.00000	21.00000	13.00000	-8.9613	12.566	-86.753	-155.53	-714.32E-6
6.00000	21.00000	13.00000	-9.2530	12.566	-87.329	-158.88	-703.24E-6
7.00000	21.00000	13.00000	-9.4726	12.566	-87.632	-161.12	-694.21E-6
8.00000	21.00000	13.00000	-9.6377	12.566	-87.795	-162.58	-687.59E-6
9.00000	21.00000	13.00000	-9.7603	12.566	-87.876	-163.46	-683.26E-6
10.00000	21.00000	13.00000	-9.8488	12.566	-87.901	-163.85	-681.05E-6
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12.00000	21.00000	13.00000	-9.9447	12.566	-87.797	-163.34	-682.46E-6
13.00000	21.00000	13.00000	-9.9583	12.566	-87.635	-162.35	-685.91E-6
14.00000	21.00000	13.00000	-9.9504	12.566	-87.334	-160.71	-690.89E-6
15.00000	21.00000	13.00000	-9.9204	12.566	-86.764	-158.20	-696.34E-6
16.00000	21.00000	13.00000	-9.8654	12.566	-85.625	-154.42	-698.81E-6
17.00000	21.00000	13.00000	-9.7807	12.566	-83.191	-148.82	-687.24E-6
18.00000	21.00000	13.00000	-9.6648	12.566	-77.719	-141.07	-628.13E-6
19.00000	21.00000	13.00000	-9.51645	12.566	-66.441	-135.36	-436.29E-6
20.00000	21.00000	13.00000	-10.141	12.566	-89.109	-189.73	-529.26E-6
21.00000	21.00000	13.00000	-10.707	12.566	-111.78	-244.06	-622.51E-6
22.00000	21.00000	13.00000	-10.578	12.566	-100.50	-238.23	-631.47E-6
23.00000	21.00000	13.00000	-10.413	12.566	-95.019	-230.26	-637.76E-6
24.00000	21.00000	13.00000	-10.254	12.566	-92.580	-224.34	-642.26E-6
25.00000	21.00000	13.00000	-10.097	12.566	-91.433	-220.12	-649.56E-6
26.00000	21.00000	13.00000	-9.9300	12.566	-90.850	-217.01	-658.83E-6
27.00000	21.00000	13.00000	-9.7416	12.566	-90.531	-214.58	-668.86E-6
28.00000	21.00000	13.00000	-9.5183	12.566	-90.344	-212.52	-679.09E-6
29.00000	21.00000	13.00000	-9.2431	12.566	-90.227	-210.57	-690.03E-6
30.00000	21.00000	13.00000	-8.8921	12.566	-90.144	-208.41	-702.06E-6
31.00000	21.00000	13.00000	-8.4290	12.566	-90.064	-205.49	-714.31E-6
32.00000	21.00000	13.00000	-7.7920	12.566	-89.904	-200.38	-727.89E-6
33.00000</							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	-17.00000	22.00000	13.00000	0.19405	12.566	-0.028251	-2.2710	14.912E-6
	-16.00000	22.00000	13.00000	0.17908	12.566	-0.034939	-2.5464	16.654E-6
	-15.00000	22.00000	13.00000	0.15849	12.566	-0.043706	-2.8701	18.682E-6
	-14.00000	22.00000	13.00000	0.13086	12.566	-0.055384	-3.2536	21.059E-6
	-13.00000	22.00000	13.00000	0.094476	12.566	-0.071222	-3.7124	23.864E-6
	-12.00000	22.00000	13.00000	0.047109	12.566	-0.093154	-4.2671	27.199E-6
	-11.00000	22.00000	13.00000	-0.014057	12.566	-0.12426	-4.9462	31.195E-6
	-10.00000	22.00000	13.00000	-0.092666	12.566	-0.16963	-5.7897	36.019E-6
	-9.00000	22.00000	13.00000	-0.19348	12.566	-0.23800	-6.8549	41.886E-6
	-8.00000	22.00000	13.00000	-0.32285	12.566	-0.34506	-8.2272	49.056E-6
	-7.00000	22.00000	13.00000	-0.48936	12.566	-0.52056	-10.037	57.812E-6
	-6.00000	22.00000	13.00000	-0.70502	12.566	-0.82433	-12.494	68.350E-6
	-5.00000	22.00000	13.00000	-0.98708	12.566	-1.3851	-15.940	80.378E-6
	-4.00000	22.00000	13.00000	-1.3614	12.566	-2.5006	-20.964	91.826E-6
	-3.00000	22.00000	13.00000	-1.8679	12.566	-4.9022	-28.595	94.728E-6
	-2.00000	22.00000	13.00000	-2.5692	12.566	-10.399	-40.538	63.704E-6
	-1.00000	22.00000	13.00000	-3.5440	12.566	-22.614	-58.898	-61.011E-6
	0.00000	22.00000	13.00000	-4.7846	12.566	-43.501	-83.424	-321.12E-6
	1.00000	22.00000	13.00000	-6.0247	12.566	-64.387	-107.93	-581.35E-6
	2.00000	22.00000	13.00000	-6.9980	12.566	-76.600	-126.23	-706.45E-6
	3.00000	22.00000	13.00000	-7.6987	12.566	-82.098	-138.06	-738.12E-6
	4.00000	22.00000	13.00000	-8.1995	12.566	-84.490	-145.54	-736.16E-6
	5.00000	22.00000	13.00000	-8.5686	12.566	-85.597	-150.36	-725.98E-6
	6.00000	22.00000	13.00000	-8.8439	12.566	-86.147	-153.53	-715.57E-6
	7.00000	22.00000	13.00000	-9.0508	12.566	-86.436	-155.65	-707.06E-6
	8.00000	22.00000	13.00000	-9.2062	12.566	-86.590	-157.02	-700.82E-6
	9.00000	22.00000	13.00000	-9.3216	12.566	-86.666	-157.85	-696.74E-6
	10.00000	22.00000	13.00000	-9.4049	12.566	-86.690	-158.23	-694.64E-6
	11.00000	22.00000	13.00000	-9.4615	12.566	-86.667	-158.19	-694.41E-6
	12.00000	22.00000	13.00000	-9.4951	12.566	-86.592	-157.74	-695.96E-6
	13.00000	22.00000	13.00000	-9.5079	12.566	-86.439	-156.83	-699.21E-6
	14.00000	22.00000	13.00000	-9.5004	12.566	-86.153	-155.26	-703.88E-6
	15.00000	22.00000	13.00000	-9.4719	12.566	-85.607	-152.89	-708.94E-6
	16.00000	22.00000	13.00000	-9.4197	12.566	-84.511	-149.30	-710.98E-6
	17.00000	22.00000	13.00000	-9.3391	12.566	-82.145	-143.95	-699.06E-6
	18.00000	22.00000	13.00000	-9.2248	12.566	-76.778	-136.53	-639.82E-6
	19.00000	22.00000	13.00000	-9.1352	12.566	-65.645	-131.23	-448.20E-6
	20.00000	22.00000	13.00000	-9.7191	12.566	-88.488	-186.05	-541.69E-6
	21.00000	22.00000	13.00000	-10.294	12.566	-111.33	-240.83	-635.44E-6
	22.00000	22.00000	13.00000	-10.173	12.566	-100.20	-235.41	-444.59E-6
	23.00000	22.00000	13.00000	-10.016	12.566	-94.825	-227.78	-386.68E-6
	24.00000	22.00000	13.00000	-9.8662	12.566	-92.454	-222.13	-376.72E-6
	25.00000	22.00000	13.00000	-9.7178	12.566	-91.349	-218.12	-381.46E-6
	26.00000	22.00000	13.00000	-9.5603	12.566	-90.792	-215.18	-390.14E-6
	27.00000	22.00000	13.00000	-9.3827	12.566	-90.489	-212.88	-399.61E-6
	28.00000	22.00000	13.00000	-9.1722	12.566	-90.193	-210.93	-409.28E-6
	29.00000	22.00000	13.00000	-8.9125	12.566	-90.202	-209.08	-419.65E-6
	30.00000	22.00000	13.00000	-8.5804	12.566	-90.123	-207.02	-432.07E-6
	31.00000	22.00000	13.00000	-8.1404	12.566	-90.047	-204.23	-449.60E-6
	32.00000	22.00000	13.00000	-7.5312	12.566	-89.890	-199.25	-480.30E-6
	33.00000	22.00000	13.00000	-6.6267	12.566	-88.780	-185.59	-549.58E-6
	34.00000	22.00000	13.00000	-4.7731	12.566	-45.043	-106.05	-198.33E-6
	35.00000	22.00000	13.00000	-2.9218	12.566	-1.3024	-26.374	153.24E-6
	36.00000	22.00000	13.00000	-2.0238	12.566	-0.21321	-13.094	84.952E-6
	37.00000	22.00000	13.00000	-1.4257	12.566	-0.080280	-8.4418	55.937E-6
	38.00000	22.00000	13.00000	-1.0017	12.566	-0.044104	-6.265	40.878E-6
	39.00000	22.00000	13.00000	-0.69103	12.566	-0.029259	-4.7528	31.820E-6
	40.00000	22.00000	13.00000	-0.45885	12.566	-0.021438	-3.8456	25.792E-6
	41.00000	22.00000	13.00000	-0.28316	12.566	-0.016610	-3.2021	21.501E-6
	42.00000	22.00000	13.00000	-0.14924	12.566	-0.013314	-2.7218	18.293E-6
	43.00000	22.00000	13.00000	-0.048008	12.566	-0.009019	-2.4998	15.804E-6
	44.00000	22.00000	13.00000	0.031557	12.566	-0.0090851	-2.0533	13.819E-6
	45.00000	22.00000	13.00000	0.091314	12.566	-0.0076539	-1.8117	12.200E-6
	46.00000	22.00000	13.00000	0.13657	12.566	-0.0065084	-1.6113	10.857E-6
	47.00000	22.00000	13.00000	0.17044	12.566	-0.0055767	-1.4427	9.7267E-6
	48.00000	22.00000	13.00000	0.19536	12.566	-0.0048096	-1.2993	8.7636E-6
	49.00000	22.00000	13.00000	0.21319	12.566	-0.0041713	-1.1759	7.9352E-6
	50.00000	22.00000	13.00000	0.22542	12.566	-0.0036359	-1.0689	7.2164E-6
	51.00000	22.00000	13.00000	0.23323	12.566	-0.0031835	-0.97545	6.5883E-6
	52.00000	22.00000	13.00000	0.23754	12.566	-0.0027988	-0.89330	6.0358E-6
	53.00000	22.00000	13.00000	0.23910	12.566	-0.0024699	-0.82065	5.5470E-6
	54.00000	22.00000	13.00000	0.23851	12.566	-0.0021872	-0.75611	5.1125E-6
	55.00000	22.00000	13.00000	0.23624	12.566	-0.0019431	-0.69849	4.7245E-6
	-25.00000	23.00000	13.00000	0.20741	12.566	-0.0067079	-1.0247	6.8522E-6
	-24.00000	23.00000	13.00000	0.21121	12.566	-0.0078079	-1.1157	7.4503E-6
	-23.00000	23.00000	13.00000	0.21418	12.566	-0.0091359	-1.2179	8.1205E-6
	-22.00000	23.00000	13.00000	0.21609	12.566	-0.010750	-1.3333	8.8740E-6
	-21.00000	23.00000	13.00000	0.21664	12.566	-0.012728	-1.4639	9.7244E-6
	-20.00000	23.00000	13.00000	0.21546	12.566	-0.015172	-1.6125	10.688E-6
	-19.00000	23.00000	13.00000	0.21210	12.566	-0.018217	-1.7824	11.785E-6
	-18.00000	23.00000	13.00000	0.20602	12.566	-0.022052	-1.9777	13.038E-6
	-17.00000	23.00000	13.00000	0.19654	12.566	-0.026935	-2.2035	14.479E-6
	-16.00000	23.00000	13.00000	0.18283	12.566	-0.033232	-2.4663	16.142E-6
	-15.00000	23.00000	13.00000	0.16383	12.566	-0.041465	-2.7745	18.076E-6
	-14.00000	23.00000	13.00000	0.13827	12.566	-0.052405	-3.1387	20.336E-6
	-13.00000	23.00000	13.00000	0.10451	12.566	-0.067205	-3.5733	22.939E-6
	-12.00000	23.00000	13.00000	0.060519	12.566	-0.087651	-4.0974	26.154E-6
	-11.00000	23.00000	13.00000	0.0036728	12.566	-0.11658	-4.7372	29.926E-6
	-10.00000	23.00000	13.00000	-0.069390	12.566	-0.15869	-5.5295	34.469E-6
	-9.00000	23.00000	13.00000	-0.16307	12.566	-0.22204	-6.5273	39.979E-6
	-8.00000	23.00000	13.00000	-0.28321	12.566	-0.32118	-7.8091	46.696E-6
	-7.00000	23.00000	13.00000	-0.43776	12.566	-0.48361	-9.4967	54.880E-6
	-6.00000	23.00000	13.00000	-0.63784	12.566	-0.76534	-11.782	64.704E-6
	-5.00000	23.00000	13.00000	-0.89950	12.566	-1.2876	-14.987	75.878E-6
	-4.00000	23.00000	13.00000	-1.2470	12.566	-2.3340	-19.668	86.389E-6
	-3.00000	23.00000	13.00000	-1.7187	12.566	-4.1414	-26.805	88.474E-6
	-2.00000	23.00000	13.00000	-2.3752	12.566	-8.8925	-38.059	57.173E-6
	-1.00000	23.00000	13.00000	-3.2953	12.566	-21.769	-55.516	-66.778E-6
	0.00000	23.00000	13.00000	-4.4745	12.566	-42.217	-78.987	-325.12E-6
	1.00000	23.00000	13.00000	-5.6531	12.566	-62.665	-102.44	-583.57E-6
	2.00000	23.00000	13.00000	-6.5718	12.566	-74.540	-119.85	-707.89E-6
	3.00000	23.00000	13.00000	-7.2260	12.566	-79.817	-130.99	-739.81E-6
	4.00000	23.00000	13.00000	-7.6942	12.566	-82.090	-137.98	-738.62E-6
	5.00000	23.00000	13.00000	-8.0369	12.566	-83.129	-142.46	-729.31E-6
	6.00000	23.00000	13.00000	-8.2923	12.566	-83.641	-145.41	-719.67E-6
	7.00000	23.00000	13.00000	-8.4843	12.566	-83.908	-147.37	-711.77E-6
	8.00000	23.00000	13.00000	-8.6285	12.566	-84.051	-148.65	-705.97E-6
	9.00000	23.00000	13.00000	-8.7357	12.566	-84.122	-149.42	-702.17E-6
	10.00000	23.00000	13.00000	-8.8131	12.566	-84.143	-149.77	-700.21E-6
	11.00000	23.00000	13.00000	-8.8657	12.566	-84.122	-149.74	-699.99E-6
	12.00000	23.00000	13.00000	-8.8970	12.566	-84.053	-149.33	-701.43E-6
	13.00000	23.00000	13.00000	-8.9089	12.566	-83.911	-148.46	-704.44E-6
	14.00000	23.00000	13.00000	-8.9019	12.566	-83.646	-147.	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
32.00000	23.00000	13.00000	-7.1745	12.566	-89.857	-197.31	-492.85E-6
33.00000	23.00000	13.00000	-6.3167	12.566	-88.761	-184.15	-560.24E-6
34.00000	23.00000	13.00000	-4.5155	12.566	-45.024	-104.77	-206.71E-6
35.00000	23.00000	13.00000	-2.7164	12.566	-1.2906	-25.443	147.13E-6
36.00000	23.00000	13.00000	-1.8647	12.566	-0.20655	-12.446	80.664E-6
37.00000	23.00000	13.00000	-1.3042	12.566	-0.076461	-7.9903	52.936E-6
38.00000	23.00000	13.00000	-0.90953	12.566	-0.041784	-5.8057	38.744E-6
39.00000	23.00000	13.00000	-0.62125	12.566	-0.027751	-4.5181	30.250E-6
40.00000	23.00000	13.00000	-0.40605	12.566	-0.020397	-3.6693	24.610E-6
41.00000	23.00000	13.00000	-0.24327	12.566	-0.015858	-3.0664	20.591E-6
42.00000	23.00000	13.00000	-0.11918	12.566	-0.012751	-2.6152	17.577E-6
43.00000	23.00000	13.00000	-0.024257	12.566	-0.010480	-2.2646	15.232E-6
44.00000	23.00000	13.00000	0.048349	12.566	-0.0087475	-1.9842	13.355E-6
45.00000	23.00000	13.00000	0.10368	12.566	-0.0073856	-1.7550	11.819E-6
46.00000	23.00000	13.00000	0.14553	12.566	-0.0062925	-1.5643	10.541E-6
47.00000	23.00000	13.00000	0.17678	12.566	-0.0054013	-1.4034	9.4618E-6
48.00000	23.00000	13.00000	0.19968	12.566	-0.0046658	-1.2660	8.5401E-6
49.00000	23.00000	13.00000	0.21597	12.566	-0.0040526	-1.1477	7.7451E-6
50.00000	23.00000	13.00000	0.22703	12.566	-0.0035372	-1.0448	7.0538E-6
51.00000	23.00000	13.00000	0.23393	12.566	-0.0031010	-0.95468	6.4483E-6
52.00000	23.00000	13.00000	0.23757	12.566	-0.0027297	-0.87533	5.9146E-6
53.00000	23.00000	13.00000	0.23863	12.566	-0.0024112	-0.80504	5.4417E-6
54.00000	23.00000	13.00000	0.23766	12.566	-0.0021374	-0.74247	5.0205E-6
55.00000	23.00000	13.00000	0.23513	12.566	-0.0019007	-0.68653	4.6438E-6
-25.00000	24.00000	13.00000	0.20619	12.566	-0.0064711	-1.0027	6.7069E-6
-24.00000	24.00000	13.00000	0.21011	12.566	-0.0075194	-1.2907	7.2846E-6
-23.00000	24.00000	13.00000	0.21326	12.566	-0.0087823	-1.1891	7.9308E-6
-22.00000	24.00000	13.00000	0.21542	12.566	-0.010314	-1.3000	8.6561E-6
-21.00000	24.00000	13.00000	0.21631	12.566	-0.012187	-1.4254	9.4733E-6
-20.00000	24.00000	13.00000	0.21559	12.566	-0.014494	-1.5678	10.397E-6
-19.00000	24.00000	13.00000	0.21284	12.566	-0.017364	-1.7300	11.447E-6
-18.00000	24.00000	13.00000	0.20755	12.566	-0.020963	-1.9166	12.644E-6
-17.00000	24.00000	13.00000	0.19909	12.566	-0.025536	-2.1315	14.016E-6
-16.00000	24.00000	13.00000	0.18670	12.566	-0.031413	-2.3809	15.597E-6
-15.00000	24.00000	13.00000	0.16940	12.566	-0.039073	-2.6726	17.430E-6
-14.00000	24.00000	13.00000	0.14603	12.566	-0.049214	-3.0162	19.566E-6
-13.00000	24.00000	13.00000	0.11508	12.566	-0.062883	-3.4249	22.074E-6
-12.00000	24.00000	13.00000	0.074697	12.566	-0.081692	-3.9159	25.038E-6
-11.00000	24.00000	13.00000	0.022501	12.566	-0.10820	-4.5131	28.569E-6
-10.00000	24.00000	13.00000	-0.044554	12.566	-0.14661	-5.2495	32.806E-6
-9.00000	24.00000	13.00000	-0.13044	12.566	-0.20481	-6.1729	37.927E-6
-8.00000	24.00000	13.00000	-0.24040	12.566	-0.29376	-7.3536	44.146E-6
-7.00000	24.00000	13.00000	-0.38156	12.566	-0.44011	-8.8996	51.697E-6
-6.00000	24.00000	13.00000	-0.56384	12.566	-0.69313	-10.983	60.733E-6
-5.00000	24.00000	13.00000	-0.80159	12.566	-1.1616	-13.892	70.985E-6
-4.00000	24.00000	13.00000	-1.11166	12.566	-2.1026	-18.126	80.608E-6
-3.00000	24.00000	13.00000	-1.5434	12.566	-4.1634	-24.572	82.407E-6
-2.00000	24.00000	13.00000	-2.1383	12.566	-9.0059	-34.768	52.865E-6
-1.00000	24.00000	13.00000	-2.9767	12.566	-20.074	-50.696	-64.976E-6
0.00000	24.00000	13.00000	-4.0583	12.566	-39.353	-72.257	-312.41E-6
1.00000	24.00000	13.00000	-5.1295	12.566	-58.635	-93.795	-559.96E-6
2.00000	24.00000	13.00000	-5.9766	12.566	-69.698	-109.67	-678.14E-6
3.00000	24.00000	13.00000	-6.5694	12.566	-74.537	-119.77	-708.27E-6
4.00000	24.00000	13.00000	-6.9930	12.566	-76.594	-126.08	-707.32E-6
5.00000	24.00000	13.00000	-7.3036	12.566	-77.527	-130.13	-698.83E-6
6.00000	24.00000	13.00000	-7.5256	12.566	-77.987	-132.89	-690.02E-6
7.00000	24.00000	13.00000	-7.7104	12.566	-78.226	-134.57	-682.80E-6
8.00000	24.00000	13.00000	-7.8422	12.566	-78.354	-135.74	-677.48E-6
9.00000	24.00000	13.00000	-7.9402	12.566	-78.418	-136.44	-673.99E-6
10.00000	24.00000	13.00000	-8.0112	12.566	-78.437	-136.76	-672.20E-6
11.00000	24.00000	13.00000	-8.0596	12.566	-78.419	-136.44	-671.98E-6
12.00000	24.00000	13.00000	-8.0884	12.566	-78.356	-136.36	-673.29E-6
13.00000	24.00000	13.00000	-8.0994	12.566	-78.229	-135.57	-676.05E-6
14.00000	24.00000	13.00000	-8.0932	12.566	-77.991	-134.28	-680.01E-6
15.00000	24.00000	13.00000	-8.0691	12.566	-77.536	-132.28	-684.30E-6
16.00000	24.00000	13.00000	-8.0250	12.566	-76.611	-129.27	-685.91E-6
17.00000	24.00000	13.00000	-7.9568	12.566	-74.582	-124.78	-675.02E-6
18.00000	24.00000	13.00000	-7.8638	12.566	-69.860	-118.58	-620.72E-6
19.00000	24.00000	13.00000	-7.7923	12.566	-59.851	-114.82	-441.52E-6
20.00000	24.00000	13.00000	-8.4008	12.566	-84.260	-171.37	-555.31E-6
21.00000	24.00000	13.00000	-9.0016	12.566	-108.67	-227.89	-669.32E-6
22.00000	24.00000	13.00000	-8.9068	12.566	-98.568	-224.02	-490.80E-6
23.00000	24.00000	13.00000	-8.7735	12.566	-93.933	-217.63	-437.68E-6
24.00000	24.00000	13.00000	-8.6458	12.566	-91.898	-212.87	-428.52E-6
25.00000	24.00000	13.00000	-8.5193	12.566	-90.967	-209.49	-432.50E-6
26.00000	24.00000	13.00000	-8.3852	12.566	-90.502	-207.00	-439.95E-6
27.00000	24.00000	13.00000	-8.2342	12.566	-90.249	-205.06	-448.08E-6
28.00000	24.00000	13.00000	-8.0558	12.566	-90.102	-203.40	-456.40E-6
29.00000	24.00000	13.00000	-7.8363	12.566	-90.009	-201.81	-465.28E-6
30.00000	24.00000	13.00000	-7.5565	12.566	-89.943	-200.06	-475.89E-6
31.00000	24.00000	13.00000	-7.1853	12.566	-89.877	-197.66	-490.94E-6
32.00000	24.00000	13.00000	-6.6672	12.566	-89.734	-193.27	-517.89E-6
33.00000	24.00000	13.00000	-5.8799	12.566	-88.657	-180.74	-581.36E-6
34.00000	24.00000	13.00000	-4.1644	12.566	-44.957	-102.29	-222.23E-6
35.00000	24.00000	13.00000	-2.4508	12.566	-1.2594	-23.891	137.18E-6
36.00000	24.00000	13.00000	-1.6694	12.566	-0.19369	-11.516	74.571E-6
37.00000	24.00000	13.00000	-1.1611	12.566	-0.070666	-7.4081	49.084E-6
38.00000	24.00000	13.00000	-0.80404	12.566	-0.038758	-5.4195	36.172E-6
39.00000	24.00000	13.00000	-0.54302	12.566	-0.025949	-4.2478	28.442E-6
40.00000	24.00000	13.00000	-0.34777	12.566	-0.019214	-3.4716	23.286E-6
41.00000	24.00000	13.00000	-0.19973	12.566	-0.015027	-2.9165	19.588E-6
42.00000	24.00000	13.00000	-0.086664	12.566	-0.012139	-2.4991	16.798E-6
43.00000	24.00000	13.00000	-42.974E-6	12.566	-0.010015	-2.1725	14.613E-6
44.00000	24.00000	13.00000	0.066266	12.566	-0.0083852	-1.9099	12.855E-6
45.00000	24.00000	13.00000	0.11680	12.566	-0.0070994	-1.6942	11.410E-6
46.00000	24.00000	13.00000	0.15498	12.566	-0.0060619	-1.5139	10.202E-6
47.00000	24.00000	13.00000	0.18343	12.566	-0.0052139	-1.3613	9.1783E-6
48.00000	24.00000	13.00000	0.20418	12.566	-0.0045121	-1.2305	8.3007E-6
49.00000	24.00000	13.00000	0.21882	12.566	-0.0039256	-1.1174	7.5416E-6
50.00000	24.00000	13.00000	0.22862	12.566	-0.0034316	-1.0189	6.8795E-6
51.00000	24.00000	13.00000	0.23458	12.566	-0.0030126	-0.93245	6.2982E-6
52.00000	24.00000	13.00000	0.23751	12.566	-0.0026551	-0.85605	5.7847E-6
53.00000	24.00000	13.00000	0.23803	12.566	-0.0023484	-0.78827	5.3286E-6
54.00000	24.00000	13.00000	0.23669	12.566	-0.0020840	-0.72782	4.9217E-6
55.00000	24.00000	13.00000	0.23388	12.566	-0.0018552	-0.67367	4.5571E-6
-25.00000	25.00000	13.00000	0.20484	12.566	-0.0062223	-0.9795	6.5527E-6
-24.00000	25.00000	13.00000	0.20888	12.566	-0.0072165	-1.0639	7.1089E-6
-23.00000	25.00000	13.00000	0.21222	12.566	-0.0084115	-1.1585	7.7299E-6
-22.00000	25.00000	13.00000	0.21464	12.566	-0.0098573	-1.2649	8.4257E-6
-21.00000	25.00000	13.00000	0.21588	12.566	-0.011619	-1.3848	9.2080E-6
-20.00000	25.00000	13.00000	0.21562	12.566	-0.013780	-1.5207	10.091E-6
-19.00000	25.00000	13.00000	0.21350	12.566	-0.016467	-1.6754	11.091E-6
-18.00000	25.00000	13.00000	0.20902	12.566	-0.019825	-1.8523	12.229E-6
-17.00000	25.00000	13.00000	0.20163	12.566	-0.024073	-2.0558	13.530E-6
-16.00000	25.00000	13.00000	0.19060	12.566	-0.029510	-2.2912	15.024E-6
-15.00000	25.00000	13.00000	0.17508	12.566	-0.036567	-2.5655	16.



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	0.00000	25.00000	13.00000	-3.4983	12.566	-33.095	-62.194	-252.99E-6
	1.00000	25.00000	13.00000	-4.4210	12.566	-49.364	-80.354	-462.03E-6
	2.00000	25.00000	13.00000	-5.1372	12.566	-58.629	-93.750	-560.25E-6
	3.00000	25.00000	13.00000	-5.6484	12.566	-62.661	-102.33	-584.24E-6
	4.00000	25.00000	13.00000	-6.0174	12.566	-64.379	-107.74	-582.49E-6
	5.00000	25.00000	13.00000	-6.2906	12.566	-65.166	-111.25	-574.65E-6
	6.00000	25.00000	13.00000	-6.4962	12.566	-65.557	-113.59	-566.70E-6
	7.00000	25.00000	13.00000	-6.6522	12.566	-65.763	-115.16	-560.20E-6
	8.00000	25.00000	13.00000	-6.7704	12.566	-65.874	-116.19	-555.41E-6
	9.00000	25.00000	13.00000	-6.8587	12.566	-65.929	-116.82	-552.26E-6
	10.00000	25.00000	13.00000	-6.9228	12.566	-65.946	-117.11	-550.62E-6
	11.00000	25.00000	13.00000	-6.9666	12.566	-65.930	-117.09	-550.42E-6
	12.00000	25.00000	13.00000	-6.9928	12.566	-65.875	-116.76	-551.60E-6
	13.00000	25.00000	13.00000	-7.0030	12.566	-65.765	-116.06	-554.08E-6
	14.00000	25.00000	13.00000	-6.9977	12.566	-65.561	-114.92	-557.68E-6
	15.00000	25.00000	13.00000	-6.9766	12.566	-65.173	-113.19	-561.66E-6
	16.00000	25.00000	13.00000	-6.9377	12.566	-64.394	-110.56	-563.54E-6
	17.00000	25.00000	13.00000	-6.8779	12.566	-62.699	-106.70	-555.21E-6
	18.00000	25.00000	13.00000	-6.7970	12.566	-58.767	-101.41	-510.82E-6
	19.00000	25.00000	13.00000	-6.7370	12.566	-50.466	-98.542	-360.53E-6
	20.00000	25.00000	13.00000	-7.1484	12.566	-77.463	-154.63	-530.32E-6
	21.00000	25.00000	13.00000	-7.9430	12.566	-104.45	-210.69	-700.32E-6
	22.00000	25.00000	13.00000	-7.8617	12.566	-96.153	-207.73	-550.67E-6
	23.00000	25.00000	13.00000	-7.7441	12.566	-92.218	-202.27	-507.37E-6
	24.00000	25.00000	13.00000	-7.6302	12.566	-90.518	-198.16	-500.64E-6
	25.00000	25.00000	13.00000	-7.5167	12.566	-87.732	-195.20	-504.71E-6
	26.00000	25.00000	13.00000	-7.3960	12.566	-89.336	-193.00	-511.59E-6
	27.00000	25.00000	13.00000	-7.2603	12.566	-89.118	-191.26	-519.01E-6
	28.00000	25.00000	13.00000	-7.1006	12.566	-88.990	-189.78	-526.53E-6
	29.00000	25.00000	13.00000	-6.9055	12.566	-88.908	-188.36	-534.50E-6
	30.00000	25.00000	13.00000	-6.6588	12.566	-88.858	-186.81	-543.89E-6
	31.00000	25.00000	13.00000	-6.3349	12.566	-88.793	-184.73	-556.94E-6
	32.00000	25.00000	13.00000	-5.8877	12.566	-88.670	-180.99	-579.92E-6
	33.00000	25.00000	13.00000	-5.2114	12.566	-87.687	-170.07	-634.28E-6
	34.00000	25.00000	13.00000	-3.6584	12.566	-44.412	-95.482	-257.51E-6
	35.00000	25.00000	13.00000	-2.1.1072	12.566	-1.1309	-25.939	119.51E-6
	36.00000	25.00000	13.00000	-1.4364	12.566	-0.16672	-10.168	65.941E-6
	37.00000	25.00000	13.00000	-0.99824	12.566	-0.061960	-6.6802	44.297E-6
	38.00000	25.00000	13.00000	-0.68748	12.566	-0.034933	-4.9715	33.195E-6
	39.00000	25.00000	13.00000	-0.45817	12.566	-0.023865	-3.9467	26.432E-6
	40.00000	25.00000	13.00000	-0.28534	12.566	-0.017009	-3.2566	21.846E-6
	41.00000	25.00000	13.00000	-0.15353	12.566	-0.014131	-2.7564	18.512E-6
	42.00000	25.00000	13.00000	-0.052405	12.566	-0.011488	-2.3755	15.968E-6
	43.00000	25.00000	13.00000	0.025316	12.566	-0.0095227	-2.0749	13.958E-6
	44.00000	25.00000	13.00000	0.084930	12.566	-0.0080030	-1.8314	12.328E-6
	45.00000	25.00000	13.00000	0.13039	12.566	-0.0067963	-1.3001	10.979E-6
	46.00000	25.00000	13.00000	0.16471	12.566	-0.0058189	-1.4608	9.8449E-6
	47.00000	25.00000	13.00000	0.19022	12.566	-0.0050165	-1.3168	8.8793E-6
	48.00000	25.00000	13.00000	0.20872	12.566	-0.0043502	-1.1930	8.0482E-6
	49.00000	25.00000	13.00000	0.22166	12.566	-0.0037918	-1.0855	7.3267E-6
	50.00000	25.00000	13.00000	0.23016	12.566	-0.0032001	-0.99155	6.6954E-6
	51.00000	25.00000	13.00000	0.23514	12.566	-0.0029192	-0.90885	6.1394E-6
	52.00000	25.00000	13.00000	0.23732	12.566	-0.0025764	-0.83563	5.6470E-6
	53.00000	25.00000	13.00000	0.23731	12.566	-0.0022818	-0.77049	5.2087E-6
	54.00000	25.00000	13.00000	0.23556	12.566	-0.0020274	-0.71226	4.8167E-6
	55.00000	25.00000	13.00000	0.23247	12.566	-0.0018063	-0.66001	4.4648E-6
	-25.00000	26.00000	13.00000	0.20336	12.566	-0.0058639	-0.95484	6.3908E-6
	-24.00000	26.00000	13.00000	0.20753	12.566	-0.0069025	-1.0359	6.9246E-6
	-23.00000	26.00000	13.00000	0.21104	12.566	-0.0080275	-1.1265	7.5196E-6
	-22.00000	26.00000	13.00000	0.21372	12.566	-0.0093847	-1.2281	8.1848E-6
	-21.00000	26.00000	13.00000	0.21531	12.566	-0.0110303	-1.3422	8.9309E-6
	-20.00000	26.00000	13.00000	0.21554	12.566	-0.013053	-1.4716	9.7708E-6
	-19.00000	26.00000	13.00000	0.21404	12.566	-0.015546	-1.6183	10.720E-6
	-18.00000	26.00000	13.00000	0.21040	12.566	-0.018653	-1.7855	11.797E-6
	-17.00000	26.00000	13.00000	0.20408	12.566	-0.022567	-1.9772	13.024E-6
	-16.00000	26.00000	13.00000	0.19446	12.566	-0.027553	-2.1982	14.430E-6
	-15.00000	26.00000	13.00000	0.18075	12.566	-0.033990	-2.4547	16.048E-6
	-14.00000	26.00000	13.00000	0.16198	12.566	-0.042422	-2.7546	17.921E-6
	-13.00000	26.00000	13.00000	0.13698	12.566	-0.053653	-3.1080	20.101E-6
	-12.00000	26.00000	13.00000	0.10425	12.566	-0.068904	-3.5284	22.657E-6
	-11.00000	26.00000	13.00000	0.061964	12.566	-0.090707	-4.0340	25.672E-6
	-10.00000	26.00000	13.00000	0.0077803	12.566	-0.12024	-4.6495	29.253E-6
	-9.00000	26.00000	13.00000	-0.061274	12.566	-0.16453	-5.4098	33.533E-6
	-8.00000	26.00000	13.00000	-0.14905	12.566	-0.23198	-6.3655	38.672E-6
	-7.00000	26.00000	13.00000	-0.26061	12.566	-0.33921	-7.5918	44.841E-6
	-6.00000	26.00000	13.00000	-0.40278	12.566	-0.51883	-9.2049	52.168E-6
	-5.00000	26.00000	13.00000	-0.58504	12.566	-0.83925	-11.391	60.525E-6
	-4.00000	26.00000	13.00000	-0.82105	12.566	-1.4550	-14.461	68.866E-6
	-3.00000	26.00000	13.00000	-1.1313	12.566	-2.7394	-18.944	73.157E-6
	-2.00000	26.00000	13.00000	-1.5468	12.566	-5.6040	-25.697	60.604E-6
	-1.00000	26.00000	13.00000	-2.1.1056	12.566	-11.865	-35.761	1.2026E-6
	0.00000	26.00000	13.00000	-2.8010	12.566	-22.478	-48.967	-125.96E-6
	1.00000	26.00000	13.00000	-3.4961	12.566	-33.094	-62.157	-253.22E-6
	2.00000	26.00000	13.00000	-4.0539	12.566	-39.350	-72.172	-312.93E-6
	3.00000	26.00000	13.00000	-4.4676	12.566	-42.212	-78.842	-326.00E-6
	4.00000	26.00000	13.00000	-4.7753	12.566	-43.492	-83.203	-322.45E-6
	5.00000	26.00000	13.00000	-5.0077	12.566	-44.103	-86.112	-315.09E-6
	6.00000	26.00000	13.00000	-5.1853	12.566	-44.415	-88.090	-308.00E-6
	7.00000	26.00000	13.00000	-5.3215	12.566	-44.584	-89.441	-302.24E-6
	8.00000	26.00000	13.00000	-5.4254	12.566	-44.677	-90.341	-297.99E-6
	9.00000	26.00000	13.00000	-5.5035	12.566	-44.723	-90.895	-295.19E-6
	10.00000	26.00000	13.00000	-5.5605	12.566	-44.738	-91.148	-293.73E-6
	11.00000	26.00000	13.00000	-5.5997	12.566	-44.724	-91.134	-293.55E-6
	12.00000	26.00000	13.00000	-5.6233	12.566	-44.678	-90.845	-294.58E-6
	13.00000	26.00000	13.00000	-5.6326	12.566	-44.586	-90.247	-296.79E-6
	14.00000	26.00000	13.00000	-5.6284	12.566	-44.418	-89.276	-300.02E-6
	15.00000	26.00000	13.00000	-5.6104	12.566	-44.108	-87.793	-303.75E-6
	16.00000	26.00000	13.00000	-5.5773	12.566	-43.504	-85.619	-306.21E-6
	17.00000	26.00000	13.00000	-5.5269	12.566	-42.240	-82.466	-301.85E-6
	18.00000	26.00000	13.00000	-5.4586	12.566	-39.442	-78.176	-273.86E-6
	19.00000	26.00000	13.00000	-5.3960	12.566	-33.727	-74.854	-179.58E-6
	20.00000	26.00000	13.00000	-5.6698	12.566	-44.978	-101.54	-227.78E-6
	21.00000	26.00000	13.00000	-5.9373	12.566	-56.227	-128.19	-276.17E-6
	22.00000	26.00000	13.00000	-5.8556	12.566	-50.511	-124.78	-182.48E-6
	23.00000	26.00000	13.00000	-5.7544	12.566	-47.711	-120.34	-155.49E-6
	24.00000	26.00000	13.00000	-5.6354	12.566	-46.442	-116.95	-152.60E-6
	25.00000	26.00000	13.00000	-5.5556	12.566	-45.832	-114.47	-157.06E-6
	26.00000	26.00000	13.00000	-5.4489	12.566	-45.514	-112.58	-163.43E-6
	27.00000	26.00000	13.00000	-5.3292	12.566	-45.335	-111.07	-170.10E-6
	28.00000	26.00000	13.00000	-5.1892	12.566	-45.227	-109.76	-176.80E-6
	29.00000	26.00000	13.00000	-5.0200	12.566	-45.157	-108.53	-183.79E-6
	30.00000	26.00000	13.00000	-4.8092	12.566	-45.107	-107.20	-191.82E-6
	31.00000	26.00000	13.00000	-4.5385	12.566	-45.061	-105.50	-202.



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Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
49.00000	26.00000	13.00000	0.22439	12.566	-0.0036522	-1.0523	7.1025E-6
50.00000	26.00000	13.00000	0.23157	12.566	-0.0032038	-0.96301	6.5030E-6
51.00000	26.00000	13.00000	0.23555	12.566	-0.0028217	-0.88421	5.9733E-6
52.00000	26.00000	13.00000	0.23699	12.566	-0.0024941	-0.81425	5.5028E-6
53.00000	26.00000	13.00000	0.23642	12.566	-0.0022121	-0.75183	5.0829E-6
54.00000	26.00000	13.00000	0.23428	12.566	-0.0019691	-0.69592	4.7065E-6
55.00000	26.00000	13.00000	0.23091	12.566	-0.0017561	-0.64563	4.3678E-6
-25.00000	27.00000	13.00000	0.20174	12.566	-0.0056985	-0.92935	6.2224E-6
-24.00000	27.00000	13.00000	0.20603	12.566	-0.0065804	-1.0069	6.7332E-6
-23.00000	27.00000	13.00000	0.20972	12.566	-0.0076343	-1.0934	7.3014E-6
-22.00000	27.00000	13.00000	0.21265	12.566	-0.0089016	-1.1901	7.9351E-6
-21.00000	27.00000	13.00000	0.21460	12.566	-0.010436	-1.2986	8.6443E-6
-20.00000	27.00000	13.00000	0.21530	12.566	-0.012307	-1.4210	9.4405E-6
-19.00000	27.00000	13.00000	0.21444	12.566	-0.014608	-1.5594	10.338E-6
-18.00000	27.00000	13.00000	0.21163	12.566	-0.017463	-1.7168	11.352E-6
-17.00000	27.00000	13.00000	0.20640	12.566	-0.021041	-1.8965	12.505E-6
-16.00000	27.00000	13.00000	0.19818	12.566	-0.025573	-2.1029	13.820E-6
-15.00000	27.00000	13.00000	0.18628	12.566	-0.031387	-2.3414	15.328E-6
-14.00000	27.00000	13.00000	0.16985	12.566	-0.038948	-2.6188	17.066E-6
-13.00000	27.00000	13.00000	0.14785	12.566	-0.048938	-2.9440	19.079E-6
-12.00000	27.00000	13.00000	0.12092	12.566	-0.062374	-3.3283	21.425E-6
-11.00000	27.00000	13.00000	0.081762	12.566	-0.080823	-3.7870	24.177E-6
-10.00000	27.00000	13.00000	0.034121	12.566	-0.10676	-4.3407	27.423E-6
-9.00000	27.00000	13.00000	-0.026369	12.566	-0.14426	-5.0177	31.273E-6
-8.00000	27.00000	13.00000	-0.10283	12.566	-0.20025	-5.8581	35.860E-6
-7.00000	27.00000	13.00000	-0.19226	12.566	-0.28714	-6.9201	41.324E-6
-6.00000	27.00000	13.00000	-0.32085	12.566	-0.42818	-8.2897	47.781E-6
-5.00000	27.00000	13.00000	-0.47447	12.566	-0.66959	-10.100	55.186E-6
-4.00000	27.00000	13.00000	-0.66933	12.566	-1.1081	-12.556	62.966E-6
-3.00000	27.00000	13.00000	-0.91783	12.566	-1.9542	-15.978	68.998E-6
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0.00000	27.00000	13.00000	-2.1036	12.566	-11.861	-35.732	1.0236E-6
1.00000	27.00000	13.00000	-2.5711	12.566	-16.824	-43.952	-44.468E-6
2.00000	27.00000	13.00000	-2.9703	12.566	-20.070	-50.585	-65.659E-6
3.00000	27.00000	13.00000	-3.2865	12.566	-21.763	-55.348	-67.807E-6
4.00000	27.00000	13.00000	-3.5328	12.566	-22.606	-58.659	-62.464E-6
5.00000	27.00000	13.00000	-3.7245	12.566	-23.039	-60.966	-55.598E-6
6.00000	27.00000	13.00000	-3.8740	12.566	-23.274	-62.584	-49.357E-6
7.00000	27.00000	13.00000	-3.9903	12.566	-23.405	-63.714	-44.345E-6
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9.00000	27.00000	13.00000	-4.1480	12.566	-23.517	-64.951	-38.195E-6
10.00000	27.00000	13.00000	-4.1979	12.566	-23.528	-65.174	-36.911E-6
11.00000	27.00000	13.00000	-4.2324	12.566	-23.517	-65.166	-36.733E-6
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13.00000	27.00000	13.00000	-4.2619	12.566	-23.407	-64.421	-39.555E-6
14.00000	27.00000	13.00000	-4.2587	12.566	-23.276	-63.609	-42.424E-6
15.00000	27.00000	13.00000	-4.2438	12.566	-23.044	-62.402	-45.899E-6
16.00000	27.00000	13.00000	-4.2164	12.566	-22.614	-60.667	-48.939E-6
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19.00000	27.00000	13.00000	-4.0547	12.566	-16.988	-51.157	1.3070E-6
20.00000	27.00000	13.00000	-3.9958	12.566	-12.494	-48.436	74.708E-6
21.00000	27.00000	13.00000	-3.9313	12.566	-7.9995	-45.687	147.93E-6
22.00000	27.00000	13.00000	-3.8491	12.566	-4.8693	-41.827	185.66E-6
23.00000	27.00000	13.00000	-3.7644	12.566	-3.2031	-38.294	196.34E-6
24.00000	27.00000	13.00000	-3.6804	12.566	-2.3664	-35.745	195.39E-6
25.00000	27.00000	13.00000	-3.5943	12.566	-1.9316	-33.730	190.54E-6
26.00000	27.00000	13.00000	-3.5017	12.566	-1.6917	-32.153	184.69E-6
27.00000	27.00000	13.00000	-3.3979	12.566	-1.5511	-30.862	178.77E-6
28.00000	27.00000	13.00000	-3.2776	12.566	-1.4630	-29.746	172.90E-6
29.00000	27.00000	13.00000	-3.1343	12.566	-1.4062	-28.684	166.88E-6
30.00000	27.00000	13.00000	-2.9594	12.566	-1.3651	-27.586	160.23E-6
31.00000	27.00000	13.00000	-2.7421	12.566	-1.3297	-26.278	152.03E-6
32.00000	27.00000	13.00000	-2.4671	12.566	-1.2825	-24.432	140.40E-6
33.00000	27.00000	13.00000	-2.1164	12.566	-1.1512	-21.401	121.40E-6
34.00000	27.00000	13.00000	-1.6882	12.566	-0.67255	-15.464	91.718E-6
35.00000	27.00000	13.00000	-1.2615	12.566	-0.19628	-9.7152	62.249E-6
36.00000	27.00000	13.00000	-0.91527	12.566	-0.072561	-6.6498	43.872E-6
37.00000	27.00000	13.00000	-0.64803	12.566	-0.039178	-5.0037	33.328E-6
38.00000	27.00000	13.00000	-0.44161	12.566	-0.026008	-3.9917	26.693E-6
39.00000	27.00000	13.00000	-0.28127	12.566	-0.019309	-3.3037	22.139E-6
40.00000	27.00000	13.00000	-0.15622	12.566	-0.015123	-2.8025	18.806E-6
41.00000	27.00000	13.00000	-0.058549	12.566	-0.012242	-2.4196	16.253E-6
42.00000	27.00000	13.00000	0.017661	12.566	-0.010121	-2.1166	14.230E-6
43.00000	27.00000	13.00000	0.076920	12.566	-0.0084909	-1.8706	12.585E-6
44.00000	27.00000	13.00000	0.12270	12.566	-0.0072017	-1.6668	11.221E-6
45.00000	27.00000	13.00000	0.15772	12.566	-0.0061609	-1.4953	10.073E-6
46.00000	27.00000	13.00000	0.18412	12.566	-0.0053079	-1.3491	9.0932E-6
47.00000	27.00000	13.00000	0.20360	12.566	-0.0046005	-1.2232	8.2488E-6
48.00000	27.00000	13.00000	0.21751	12.566	-0.0040080	-1.1137	7.5146E-6
49.00000	27.00000	13.00000	0.22694	12.566	-0.0035083	-1.0179	6.8714E-6
50.00000	27.00000	13.00000	0.23279	12.566	-0.0030837	-0.93352	6.3043E-6
51.00000	27.00000	13.00000	0.23578	12.566	-0.0027207	-0.85870	5.8014E-6
52.00000	27.00000	13.00000	0.23647	12.566	-0.0024089	-0.79207	5.3533E-6
53.00000	27.00000	13.00000	0.23535	12.566	-0.0021397	-0.73245	4.9522E-6
54.00000	27.00000	13.00000	0.23282	12.566	-0.0019064	-0.67892	4.5918E-6
55.00000	27.00000	13.00000	0.22917	12.566	-0.0017034	-0.63065	4.2667E-6
-25.00000	28.00000	13.00000	0.19999	12.566	-0.0054285	-0.90306	6.0486E-6
-24.00000	28.00000	13.00000	0.20439	12.566	-0.0062535	-0.97701	6.5361E-6
-23.00000	28.00000	13.00000	0.20826	12.566	-0.0072366	-1.0596	7.0770E-6
-22.00000	28.00000	13.00000	0.21143	12.566	-0.0084132	-1.1510	7.6789E-6
-21.00000	28.00000	13.00000	0.21373	12.566	-0.0098328	-1.2538	8.3506E-6
-20.00000	28.00000	13.00000	0.21489	12.566	-0.011557	-1.3692	9.1026E-6
-19.00000	28.00000	13.00000	0.21465	12.566	-0.013667	-1.4994	9.9474E-6
-18.00000	28.00000	13.00000	0.21266	12.566	-0.016272	-1.6423	10.900E-6
-17.00000	28.00000	13.00000	0.20849	12.566	-0.019517	-1.8146	11.978E-6
-16.00000	28.00000	13.00000	0.20166	12.566	-0.023601	-2.0064	13.202E-6
-15.00000	28.00000	13.00000	0.19154	12.566	-0.028802	-2.2269	14.600E-6
-14.00000	28.00000	13.00000	0.17742	12.566	-0.035510	-2.4820	16.203E-6
-13.00000	28.00000	13.00000	0.15883	12.566	-0.044288	-2.7798	18.050E-6
-12.00000	28.00000	13.00000	0.13336	12.566	-0.055963	-3.1279	20.190E-6
-11.00000	28.00000	13.00000	0.10104	12.566	-0.071782	-3.5406	22.681E-6
-10.00000	28.00000	13.00000	0.059787	12.566	-0.093674	-4.0339	25.598E-6
-9.00000	28.00000	13.00000	0.0076322	12.566	-0.12471	-4.6299	29.028E-6
-8.00000	28.00000	13.00000	-0.057870	12.566	-0.16796	-5.3592	33.077E-6
-7.00000	28.00000	13.00000	-0.13974	12.566	-0.23804	-6.2642	37.856E-6
-6.00000	28.00000	13.00000	-0.24170	12.566	-0.34424	-7.4050	43.464E-6
-5.00000	28.00000	13.00000	-0.36837	12.566	-0.51657	-8.8676	49.915E-6
-4.00000	28.00000	13.00000	-0.52530	12.566	-0.80760	-10.774	56.963E-6
-3.00000	28.00000	13.00000	-0.71882	12.566	-1.3158	-13.280	63.736E-6
-2.00000	28.00000	13.00000	-0.95471	12.566	-2.2017	-16.598	68.162E-6
-1.00000	28.00000	13.00000	-1.2338	12.566	-3.6485	-20.796	67.189E-6
0.00000	28.00000	13.00000	-1.5430	12.566	-5.6025	-25.646	60.288E-6
1.00000	28.00000	13.00000	-1.8519	12.566	-7.5561	-30.483	53.300E-6
2.00000	28.00000	13.00000	-2.1302	12.566	-9.0018	-34.639	52.066E-6
3.00000	28.00000	13.00					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location		Displacement		Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
17.00000	28.00000	13.00000	-3.0953	12.566	-9.8972	-40.111	71.070E-6	
18.00000	28.00000	13.00000	-3.0518	12.566	-9.0236	-37.739	72.765E-6	
19.00000	28.00000	13.00000	-2.9982	12.566	-7.6030	-34.849	82.119E-6	
20.00000	28.00000	13.00000	-2.9373	12.566	-5.6945	-31.675	99.524E-6	
21.00000	28.00000	13.00000	-2.8715	12.566	-3.7856	-28.476	116.77E-6	
22.00000	28.00000	13.00000	-2.8030	12.566	-2.3638	-25.510	125.63E-6	
23.00000	28.00000	13.00000	-2.7340	12.566	-1.4880	-23.010	126.50E-6	
24.00000	28.00000	13.00000	-2.6639	12.566	-0.98551	-21.009	123.13E-6	
25.00000	28.00000	13.00000	-2.5908	12.566	-0.69672	-19.419	118.20E-6	
26.00000	28.00000	13.00000	-2.5117	12.566	-0.52541	-18.131	112.92E-6	
27.00000	28.00000	13.00000	-2.4234	12.566	-0.41950	-17.052	107.72E-6	
28.00000	28.00000	13.00000	-2.3219	12.566	-0.35113	-16.103	102.65E-6	
29.00000	28.00000	13.00000	-2.2029	12.566	-0.30488	-15.216	97.548E-6	
30.00000	28.00000	13.00000	-2.0613	12.566	-0.27160	-14.321	92.126E-6	
31.00000	28.00000	13.00000	-1.8913	12.566	-0.24487	-13.333	85.932E-6	
32.00000	28.00000	13.00000	-1.6874	12.566	-0.21808	-12.131	78.255E-6	
33.00000	28.00000	13.00000	-1.4477	12.566	-0.18141	-10.571	68.394E-6	
34.00000	28.00000	13.00000	-1.1821	12.566	-0.12756	-8.6454	56.359E-6	
35.00000	28.00000	13.00000	-0.91788	12.566	-0.075771	-6.7526	44.508E-6	
36.00000	28.00000	13.00000	-0.68232	12.566	-0.045535	-5.2938	35.176E-6	
37.00000	28.00000	13.00000	-0.48538	12.566	-0.030409	-4.2668	28.481E-6	
38.00000	28.00000	13.00000	-0.32528	12.566	-0.022207	-3.5355	23.661E-6	
39.00000	28.00000	13.00000	-0.19670	12.566	-0.017178	-2.9950	20.077E-6	
40.00000	28.00000	13.00000	-0.094131	12.566	-0.013775	-2.5805	17.319E-6	
41.00000	28.00000	13.00000	-0.012738	12.566	-0.011309	-2.2527	15.134E-6	
42.00000	28.00000	13.00000	0.051490	12.566	-0.0094369	-1.9871	13.361E-6	
43.00000	28.00000	13.00000	0.10181	12.566	-0.0079702	-1.7676	11.894E-6	
44.00000	28.00000	13.00000	0.14087	12.566	-0.0067946	-1.5833	10.661E-6	
45.00000	28.00000	13.00000	0.17080	12.566	-0.0058367	-1.4266	9.6112E-6	
46.00000	28.00000	13.00000	0.19332	12.566	-0.0050459	-1.2919	8.7083E-6	
47.00000	28.00000	13.00000	0.20984	12.566	-0.0043863	-1.1750	7.9246E-6	
48.00000	28.00000	13.00000	0.22150	12.566	-0.0038315	-1.0728	7.2391E-6	
49.00000	28.00000	13.00000	0.22922	12.566	-0.0033615	-0.98291	6.6355E-6	
50.00000	28.00000	13.00000	0.23377	12.566	-0.0029608	-0.90333	6.1009E-6	
51.00000	28.00000	13.00000	0.23578	12.566	-0.0026173	-0.83254	5.6251E-6	
52.00000	28.00000	13.00000	0.23574	12.566	-0.0023214	-0.76928	5.1996E-6	
53.00000	28.00000	13.00000	0.23409	12.566	-0.0020653	-0.71251	4.8176E-6	
54.00000	28.00000	13.00000	0.23117	12.566	-0.0018429	-0.66138	4.4734E-6	
55.00000	28.00000	13.00000	0.22726	12.566	-0.0016489	-0.61517	4.1622E-6	
-25.00000	29.00000	13.00000	0.19810	12.566	-0.0051565	-0.87615	5.8706E-6	
-24.00000	29.00000	13.00000	0.20260	12.566	-0.0059247	-0.94647	6.3345E-6	
-23.00000	29.00000	13.00000	0.20663	12.566	-0.0068364	-1.0245	6.8480E-6	
-22.00000	29.00000	13.00000	0.21005	12.566	-0.0079245	-1.1113	7.4179E-6	
-21.00000	29.00000	13.00000	0.21267	12.566	-0.0092311	-1.2082	8.0521E-6	
-20.00000	29.00000	13.00000	0.21429	12.566	-0.010811	-1.3167	8.7600E-6	
-19.00000	29.00000	13.00000	0.21465	12.566	-0.012734	-1.4387	9.5526E-6	
-18.00000	29.00000	13.00000	0.21345	12.566	-0.015094	-1.5763	10.443E-6	
-17.00000	29.00000	13.00000	0.21032	12.566	-0.018015	-1.7322	11.446E-6	
-16.00000	29.00000	13.00000	0.20482	12.566	-0.021666	-1.9096	12.582E-6	
-15.00000	29.00000	13.00000	0.19644	12.566	-0.026277	-2.1125	13.871E-6	
-14.00000	29.00000	13.00000	0.18453	12.566	-0.032169	-2.3458	15.342E-6	
-13.00000	29.00000	13.00000	0.16836	12.566	-0.039795	-2.6157	17.027E-6	
-12.00000	29.00000	13.00000	0.14701	12.566	-0.049811	-2.9300	18.966E-6	
-11.00000	29.00000	13.00000	0.11940	12.566	-0.063178	-3.2986	21.206E-6	
-10.00000	29.00000	13.00000	0.084238	12.566	-0.081344	-3.7344	23.807E-6	
-9.00000	29.00000	13.00000	0.039972	12.566	-0.10654	-4.2542	26.837E-6	
-8.00000	29.00000	13.00000	-0.015246	12.566	-0.14227	-4.8803	30.377E-6	
-7.00000	29.00000	13.00000	-0.083603	12.566	-0.19419	-5.6422	34.511E-6	
-6.00000	29.00000	13.00000	-0.16765	12.566	-0.27164	-6.5793	39.318E-6	
-5.00000	29.00000	13.00000	-0.27026	12.566	-0.39013	-7.7433	44.833E-6	
-4.00000	29.00000	13.00000	-0.39448	12.566	-0.57523	-9.1998	50.980E-6	
-3.00000	29.00000	13.00000	-0.54303	12.566	-0.86648	-11.023	57.453E-6	
-2.00000	29.00000	13.00000	-0.71714	12.566	-1.3145	-13.272	63.625E-6	
-1.00000	29.00000	13.00000	-0.91432	12.566	-1.9531	-15.939	68.749E-6	
0.00000	29.00000	13.00000	-1.1258	12.566	-2.7376	-18.877	72.738E-6	
1.00000	29.00000	13.00000	-1.3371	12.566	-3.5217	-21.802	76.648E-6	
2.00000	29.00000	13.00000	-1.5336	12.566	-4.1592	-24.431	81.530E-6	
3.00000	29.00000	13.00000	-1.7066	12.566	-4.6053	-26.614	87.295E-6	
4.00000	29.00000	13.00000	-1.8535	12.566	-4.8938	-28.343	93.185E-6	
5.00000	29.00000	13.00000	-1.9754	12.566	-5.0749	-29.675	98.561E-6	
6.00000	29.00000	13.00000	-2.0750	12.566	-5.1881	-30.680	103.10E-6	
7.00000	29.00000	13.00000	-2.1552	12.566	-5.2583	-31.419	106.71E-6	
8.00000	29.00000	13.00000	-2.2186	12.566	-5.3006	-31.938	109.38E-6	
9.00000	29.00000	13.00000	-2.2676	12.566	-5.3232	-32.269	111.18E-6	
10.00000	29.00000	13.00000	-2.3041	12.566	-5.3303	-32.431	112.14E-6	
11.00000	29.00000	13.00000	-2.3296	12.566	-5.3234	-32.433	112.29E-6	
12.00000	29.00000	13.00000	-2.3454	12.566	-5.3011	-32.274	111.66E-6	
13.00000	29.00000	13.00000	-2.3523	12.566	-5.2593	-31.944	110.27E-6	
14.00000	29.00000	13.00000	-2.3508	12.566	-5.1896	-31.421	108.13E-6	
15.00000	29.00000	13.00000	-2.3413	12.566	-5.0774	-30.676	105.34E-6	
16.00000	29.00000	13.00000	-2.3237	12.566	-4.8977	-29.666	102.13E-6	
17.00000	29.00000	13.00000	-2.2982	12.566	-4.6117	-28.347	98.980E-6	
18.00000	29.00000	13.00000	-2.2646	12.566	-4.1700	-26.690	96.719E-6	
19.00000	29.00000	13.00000	-2.2237	12.566	-3.5397	-24.721	96.188E-6	
20.00000	29.00000	13.00000	-2.1766	12.566	-2.7655	-22.552	97.234E-6	
21.00000	29.00000	13.00000	-2.1253	12.566	-1.9909	-20.360	98.135E-6	
22.00000	29.00000	13.00000	-2.0714	12.566	-1.3595	-18.324	97.165E-6	
23.00000	29.00000	13.00000	-2.0158	12.566	-0.91577	-16.552	94.158E-6	
24.00000	29.00000	13.00000	-1.9580	12.566	-0.62693	-15.066	89.931E-6	
25.00000	29.00000	13.00000	-1.8967	12.566	-0.44312	-13.831	85.273E-6	
26.00000	29.00000	13.00000	-1.8301	12.566	-0.32527	-12.795	80.620E-6	
27.00000	29.00000	13.00000	-1.7559	12.566	-0.24801	-11.905</		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	-15.00000	30.00000	13.00000	0.20086	12.566	-0.023848	-1.9993	13.149E-6
	-14.00000	30.00000	13.00000	0.19107	12.566	-0.028975	-2.2116	14.492E-6
	-13.00000	30.00000	13.00000	0.17759	12.566	-0.035534	-2.4555	16.021E-6
	-12.00000	30.00000	13.00000	0.15970	12.566	-0.044029	-2.7371	17.768E-6
	-11.00000	30.00000	13.00000	0.13652	12.566	-0.055183	-3.0642	19.771E-6
	-10.00000	30.00000	13.00000	0.10702	12.566	-0.070047	-3.4466	22.075E-6
	-9.00000	30.00000	13.00000	0.070036	12.566	-0.090176	-3.8966	24.733E-6
	-8.00000	30.00000	13.00000	0.024197	12.566	-0.11790	-4.4298	27.803E-6
	-7.00000	30.00000	13.00000	-0.032022	12.566	-0.15675	-5.0660	31.347E-6
	-6.00000	30.00000	13.00000	-0.10028	12.566	-0.21210	-5.8296	35.422E-6
	-5.00000	30.00000	13.00000	-0.18229	12.566	-0.29200	-6.7498	40.064E-6
	-4.00000	30.00000	13.00000	-0.27954	12.566	-0.40801	-7.8588	45.255E-6
	-3.00000	30.00000	13.00000	-0.39295	12.566	-0.57491	-9.1859	50.891E-6
	-2.00000	30.00000	13.00000	-0.52210	12.566	-0.80685	-10.743	56.766E-6
	-1.00000	30.00000	13.00000	-0.66432	12.566	-1.1068	-12.503	62.635E-6
	0.00000	30.00000	13.00000	-0.81409	12.566	-1.4530	-14.393	68.373E-6
	1.00000	30.00000	13.00000	-0.96369	12.566	-1.7988	-16.251	74.038E-6
	2.00000	30.00000	13.00000	-1.1054	12.566	-2.0979	-17.976	79.686E-6
	3.00000	30.00000	13.00000	-1.2336	12.566	-2.3281	-19.474	85.188E-6
	4.00000	30.00000	13.00000	-1.3456	12.566	-2.4926	-20.715	90.292E-6
	5.00000	30.00000	13.00000	-1.4410	12.566	-2.6052	-21.711	94.782E-6
	6.00000	30.00000	13.00000	-1.5205	12.566	-2.6804	-22.488	98.538E-6
	7.00000	30.00000	13.00000	-1.5855	12.566	-2.7296	-23.074	101.53E-6
	8.00000	30.00000	13.00000	-1.6376	12.566	-2.7603	-23.493	103.76E-6
	9.00000	30.00000	13.00000	-1.6783	12.566	-2.7770	-23.764	105.27E-6
	10.00000	30.00000	13.00000	-1.7088	12.566	-2.7824	-23.908	106.08E-6
	11.00000	30.00000	13.00000	-1.7303	12.566	-2.7772	-23.905	106.23E-6
	12.00000	30.00000	13.00000	-1.7437	12.566	-2.7607	-23.781	105.71E-6
	13.00000	30.00000	13.00000	-1.7497	12.566	-2.7304	-23.520	104.55E-6
	14.00000	30.00000	13.00000	-1.7488	12.566	-2.6816	-23.111	102.76E-6
	15.00000	30.00000	13.00000	-1.7413	12.566	-2.6060	-22.530	100.29E-6
	16.00000	30.00000	13.00000	-1.7274	12.566	-2.4952	-21.783	97.520E-6
	17.00000	30.00000	13.00000	-1.7073	12.566	-2.3320	-20.828	94.344E-6
	18.00000	30.00000	13.00000	-1.6813	12.566	-2.1037	-19.670	91.120E-6
	19.00000	30.00000	13.00000	-1.6499	12.566	-1.8074	-18.335	88.078E-6
	20.00000	30.00000	13.00000	-1.6138	12.566	-1.4648	-16.897	85.212E-6
	21.00000	30.00000	13.00000	-1.5742	12.566	-1.1218	-15.418	82.211E-6
	22.00000	30.00000	13.00000	-1.5317	12.566	-0.82449	-14.023	78.776E-6
	23.00000	30.00000	13.00000	-1.4869	12.566	-0.59443	-12.762	74.884E-6
	24.00000	30.00000	13.00000	-1.4394	12.566	-0.42875	-11.659	70.748E-6
	25.00000	30.00000	13.00000	-1.3885	12.566	-0.3247	-10.705	66.601E-6
	26.00000	30.00000	13.00000	-1.3331	12.566	-0.23395	-9.8776	62.586E-6
	27.00000	30.00000	13.00000	-1.2717	12.566	-0.17873	-9.1497	58.752E-6
	28.00000	30.00000	13.00000	-1.2027	12.566	-0.13976	-8.4935	55.073E-6
	29.00000	30.00000	13.00000	-1.1244	12.566	-0.11165	-7.8831	51.485E-6
	30.00000	30.00000	13.00000	-1.0353	12.566	-0.090799	-7.2941	47.894E-6
	31.00000	30.00000	13.00000	-0.93453	12.566	-0.074723	-6.7051	44.205E-6
	32.00000	30.00000	13.00000	-0.82209	12.566	-0.061691	-6.0992	40.339E-6
	33.00000	30.00000	13.00000	-0.70004	12.566	-0.050552	-5.4716	36.286E-6
	34.00000	30.00000	13.00000	-0.57280	12.566	-0.040782	-4.8365	32.154E-6
	35.00000	30.00000	13.00000	-0.44668	12.566	-0.032435	-4.2262	28.163E-6
	36.00000	30.00000	13.00000	-0.32798	12.566	-0.025709	-3.6739	24.533E-6
	37.00000	30.00000	13.00000	-0.22117	12.566	-0.020542	-3.1968	21.384E-6
	38.00000	30.00000	13.00000	-0.12833	12.566	-0.016639	-2.7949	18.723E-6
	39.00000	30.00000	13.00000	-0.049659	12.566	-0.013673	-2.4592	16.494E-6
	40.00000	30.00000	13.00000	0.015743	12.566	-0.011391	-2.1873	14.521E-6
	41.00000	30.00000	13.00000	0.069270	12.566	-0.0095766	-1.9417	13.048E-6
	42.00000	30.00000	13.00000	0.11246	12.566	-0.0081323	-1.7408	11.707E-6
	43.00000	30.00000	13.00000	0.14681	12.566	-0.0069591	-1.5687	10.558E-6
	44.00000	30.00000	13.00000	0.17368	12.566	-0.0059946	-1.4202	9.5643E-6
	45.00000	30.00000	13.00000	0.19428	12.566	-0.0051935	-1.2919	8.6998E-6
	46.00000	30.00000	13.00000	0.20965	12.566	-0.0045224	-1.1780	7.9425E-6
	47.00000	30.00000	13.00000	0.22068	12.566	-0.0039560	-1.0785	7.2752E-6
	48.00000	30.00000	13.00000	0.22813	12.566	-0.0034748	-0.99035	6.6839E-6
	49.00000	30.00000	13.00000	0.23265	12.566	-0.0030637	-0.91195	6.1576E-6
	50.00000	30.00000	13.00000	0.23477	12.566	-0.0027106	-0.84191	5.6871E-6
	51.00000	30.00000	13.00000	0.23495	12.566	-0.0024060	-0.77908	5.2648E-6
	52.00000	30.00000	13.00000	0.23355	12.566	-0.0021421	-0.72252	4.8844E-6
	53.00000	30.00000	13.00000	0.23091	12.566	-0.0019125	-0.67143	4.5406E-6
	54.00000	30.00000	13.00000	0.22728	12.566	-0.0017120	-0.62515	4.2290E-6
	55.00000	30.00000	13.00000	0.22228	12.566	-0.0015368	-0.58310	3.9458E-6
	-25.00000	31.00000	13.00000	0.19391	12.566	-0.0046149	-0.82117	5.5066E-6
	-24.00000	31.00000	13.00000	0.19859	12.566	-0.0052729	-0.88426	5.9235E-6
	-23.00000	31.00000	13.00000	0.20290	12.566	-0.0060476	-0.95388	6.3825E-6
	-22.00000	31.00000	13.00000	0.20674	12.566	-0.0069642	-1.0309	6.8891E-6
	-21.00000	31.00000	13.00000	0.20997	12.566	-0.0080545	-1.1163	7.4494E-6
	-20.00000	31.00000	13.00000	0.21242	12.566	-0.0093587	-1.2113	8.0708E-6
	-19.00000	31.00000	13.00000	0.21389	12.566	-0.010928	-1.3173	8.7614E-6
	-18.00000	31.00000	13.00000	0.21415	12.566	-0.012830	-1.4359	9.5312E-6
	-17.00000	31.00000	13.00000	0.21294	12.566	-0.015151	-1.5689	10.392E-6
	-16.00000	31.00000	13.00000	0.20992	12.566	-0.018002	-1.7189	11.356E-6
	-15.00000	31.00000	13.00000	0.20472	12.566	-0.021542	-1.8884	12.439E-6
	-14.00000	31.00000	13.00000	0.19690	12.566	-0.025969	-2.0808	13.661E-6
	-13.00000	31.00000	13.00000	0.18594	12.566	-0.031560	-2.3001	15.043E-6
	-12.00000	31.00000	13.00000	0.17125	12.566	-0.038697	-2.5512	16.609E-6
	-11.00000	31.00000	13.00000	0.15213	12.566	-0.047909	-2.8400	18.391E-6
	-10.00000	31.00000	13.00000	0.12780	12.566	-0.059938	-3.1737	20.421E-6
	-9.00000	31.00000	13.00000	0.097380	12.566	-0.075834	-3.5612	22.739E-6
	-8.00000	31.00000	13.00000	0.059889	12.566	-0.097092	-4.0131	25.386E-6
	-7.00000	31.00000	13.00000	0.014292	12.566	-0.12583	-4.5419	28.405E-6
	-6.00000	31.00000	13.00000	-0.00485	12.566	-0.16502	-5.1625	31.834E-6
	-5.00000	31.00000	13.00000	-0.10530	12.566	-0.21867	-5.8896	35.698E-6
	-4.00000	31.00000	13.00000	-0.18090	12.566	-0.29177	-6.7387	39.993E-6
	-3.00000	31.00000	13.00000	-0.26734	12.566	-0.38959	-7.7186	44.675E-6
	-2.00000	31.00000	13.00000	-0.36380	12.566	-0.51562	-8.8262	49.651E-6
	-1.00000	31.00000	13.00000	-0.46812	12.566	-0.66811	-10.038	54.795E-6
	0.00000	31.00000	13.00000	-0.57678	12.566	-0.83710	-11.305	59.981E-6
	1.00000	31.00000	13.00000	-0.68529	12.566	-1.0058	-12.562	65.100E-6
	2.00000	31.00000	13.00000	-0.78918	12.566	-1.1575	-13.741	70.043E-6
	3.00000	31.00000	13.00000	-0.88489	12.566	-1.2820	-14.795	74.679E-6
	4.00000	31.00000	13.00000	-0.97024	12.566	-1.3770	-15.697	78.878E-6
	5.00000	31.00000	13.00000	-1.0443	12.566	-1.4479	-16.444	82.538E-6
	6.00000	31.00000	13.00000	-1.1071	12.566	-1.4975	-17.043	85.601E-6
	7.00000	31.00000	13.00000	-1.1593	12.566	-1.5315	-17.504	88.052E-6
	8.00000	31.00000	13.00000	-1.2015	12.566	-1.5534	-17.840	89.898E-6
	9.00000	31.00000	13.00000	-1.2348	12.566	-1.5656	-18.067	91.154E-6
	10.00000	31.00000	13.00000	-1.2600	12.566	-1.5696	-18.173	91.841E-6
	11.00000	31.00000	13.00000	-1.2779	12.566	-1.5658	-18.181	91.973E-6
	12.00000	31.00000	13.00000	-1.2891	12.566	-1.5537	-18.085	91.562E-6
	13.00000	31.00000	13.00000	-1.2942	12.566	-1.5321	-17.881	90.614E-6
	14.00000	31.00000	13.00000	-1.2936	12.566	-1.4996	-17.568	89.142E-6
	15.00000	31.00000	13.00000	-1.2876	12.566	-1.4491	-17.127	87.168E-6
	16.00000							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [m]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
34.00000	31.00000	13.00000	-0.37787	12.566	-0.031960	-4.0103	26.699E-6
35.00000	31.00000	13.00000	-0.28655	12.566	-0.026205	-3.5768	23.860E-6
36.00000	31.00000	13.00000	-0.19982	12.566	-0.021491	-3.1773	21.232E-6
37.00000	31.00000	13.00000	-0.12050	12.566	-0.017699	-2.8201	18.873E-6
38.00000	31.00000	13.00000	-0.050243	12.566	-0.014680	-2.5074	16.802E-6
39.00000	31.00000	13.00000	0.010374	12.566	-0.012276	-2.2367	15.005E-6
40.00000	31.00000	13.00000	0.061550	12.566	-0.010352	-2.0032	13.452E-6
41.00000	31.00000	13.00000	0.10395	12.566	-0.0087962	-1.8016	12.108E-6
42.00000	31.00000	13.00000	0.13848	12.566	-0.0075263	-1.6270	10.944E-6
43.00000	31.00000	13.00000	0.16608	12.566	-0.0064798	-1.4751	9.9291E-6
44.00000	31.00000	13.00000	0.18771	12.566	-0.0056098	-1.3423	9.0409E-6
45.00000	31.00000	13.00000	0.20423	12.566	-0.0048809	-1.2256	8.2595E-6
46.00000	31.00000	13.00000	0.21644	12.566	-0.0042658	-1.1225	7.5689E-6
47.00000	31.00000	13.00000	0.22503	12.566	-0.0037436	-1.0310	6.9557E-6
48.00000	31.00000	13.00000	0.23061	12.566	-0.0032977	-0.94950	6.4089E-6
49.00000	31.00000	13.00000	0.23368	12.566	-0.0029151	-0.87659	5.9194E-6
50.00000	31.00000	13.00000	0.23470	12.566	-0.0025853	-0.81113	5.4797E-6
51.00000	31.00000	13.00000	0.23405	12.566	-0.0022997	-0.75216	5.0833E-6
52.00000	31.00000	13.00000	0.23205	12.566	-0.0020515	-0.69888	4.7250E-6
53.00000	31.00000	13.00000	0.22896	12.566	-0.0018350	-0.65058	4.4000E-6
54.00000	31.00000	13.00000	0.22502	12.566	-0.0016455	-0.60669	4.1045E-6
55.00000	31.00000	13.00000	0.22041	12.566	-0.0014791	-0.56671	3.8352E-6
-25.00000	32.00000	13.00000	0.19162	12.566	-0.0043495	-0.79342	5.3228E-6
-24.00000	32.00000	13.00000	0.19636	12.566	-0.0049550	-0.85296	5.7165E-6
-23.00000	32.00000	13.00000	0.20079	12.566	-0.0056647	-0.91848	6.1489E-6
-22.00000	32.00000	13.00000	0.20482	12.566	-0.0065005	-0.99074	6.6246E-6
-21.00000	32.00000	13.00000	0.20831	12.566	-0.0074896	-1.0706	7.1492E-6
-20.00000	32.00000	13.00000	0.21112	12.566	-0.0086661	-1.1591	7.7288E-6
-19.00000	32.00000	13.00000	0.21308	12.566	-0.0100073	-1.2574	8.3707E-6
-18.00000	32.00000	13.00000	0.21401	12.566	-0.011766	-1.3670	9.0832E-6
-17.00000	32.00000	13.00000	0.21365	12.566	-0.013816	-1.4893	9.8758E-6
-16.00000	32.00000	13.00000	0.21174	12.566	-0.016315	-1.6264	10.760E-6
-15.00000	32.00000	13.00000	0.20796	12.566	-0.019383	-1.7805	11.748E-6
-14.00000	32.00000	13.00000	0.20195	12.566	-0.023177	-1.9542	12.855E-6
-13.00000	32.00000	13.00000	0.19330	12.566	-0.027910	-2.1507	14.099E-6
-12.00000	32.00000	13.00000	0.18151	12.566	-0.033860	-2.3738	15.498E-6
-11.00000	32.00000	13.00000	0.16606	12.566	-0.041408	-2.6278	17.076E-6
-10.00000	32.00000	13.00000	0.14635	12.566	-0.051065	-2.9180	18.858E-6
-9.00000	32.00000	13.00000	0.12173	12.566	-0.063523	-3.2506	20.872E-6
-8.00000	32.00000	13.00000	0.091522	12.566	-0.079715	-3.6324	23.145E-6
-7.00000	32.00000	13.00000	0.055029	12.566	-0.10008	-4.0714	25.706E-6
-6.00000	32.00000	13.00000	0.011621	12.566	-0.12861	-4.5758	28.579E-6
-5.00000	32.00000	13.00000	-0.039196	12.566	-0.16485	-5.1533	31.777E-6
-4.00000	32.00000	13.00000	-0.097641	12.566	-0.21170	-5.8098	35.296E-6
-3.00000	32.00000	13.00000	-0.16350	12.566	-0.27095	-6.5463	39.107E-6
-2.00000	32.00000	13.00000	-0.23592	12.566	-0.34317	-7.3561	43.153E-6
-1.00000	32.00000	13.00000	-0.31331	12.566	-0.42662	-8.2216	47.348E-6
0.00000	32.00000	13.00000	-0.39337	12.566	-0.51665	-9.1139	51.593E-6
1.00000	32.00000	13.00000	-0.47332	12.566	-0.60645	-9.9967	55.777E-6
2.00000	32.00000	13.00000	-0.55038	12.566	-0.68917	-10.833	59.790E-6
3.00000	32.00000	13.00000	-0.62224	12.566	-0.76013	-11.594	63.528E-6
4.00000	32.00000	13.00000	-0.68725	12.566	-0.81753	-12.261	66.901E-6
5.00000	32.00000	13.00000	-0.74452	12.566	-0.86183	-12.826	69.846E-6
6.00000	32.00000	13.00000	-0.79377	12.566	-0.89469	-13.287	72.324E-6
7.00000	32.00000	13.00000	-0.83514	12.566	-0.91802	-13.650	74.320E-6
8.00000	32.00000	13.00000	-0.86901	12.566	-0.93347	-13.918	75.835E-6
9.00000	32.00000	13.00000	-0.89592	12.566	-0.94228	-14.097	76.875E-6
10.00000	32.00000	13.00000	-0.91640	12.566	-0.94518	-14.191	77.451E-6
11.00000	32.00000	13.00000	-0.93100	12.566	-0.94241	-14.200	77.573E-6
12.00000	32.00000	13.00000	-0.94020	12.566	-0.93374	-14.126	77.247E-6
13.00000	32.00000	13.00000	-0.94442	12.566	-0.91845	-13.968	76.482E-6
14.00000	32.00000	13.00000	-0.94402	12.566	-0.89533	-13.724	75.285E-6
15.00000	32.00000	13.00000	-0.93928	12.566	-0.86272	-13.390	73.674E-6
16.00000	32.00000	13.00000	-0.93049	12.566	-0.81874	-12.965	71.677E-6
17.00000	32.00000	13.00000	-0.91790	12.566	-0.76176	-12.451	69.336E-6
18.00000	32.00000	13.00000	-0.90177	12.566	-0.69131	-11.854	66.711E-6
19.00000	32.00000	13.00000	-0.88241	12.566	-0.60918	-11.191	63.867E-6
20.00000	32.00000	13.00000	-0.86017	12.566	-0.52003	-10.484	60.866E-6
21.00000	32.00000	13.00000	-0.83538	12.566	-0.43064	-9.7603	57.762E-6
22.00000	32.00000	13.00000	-0.80827	12.566	-0.34775	-9.0491	54.606E-6
23.00000	32.00000	13.00000	-0.77895	12.566	-0.27060	-8.3719	51.456E-6
24.00000	32.00000	13.00000	-0.74732	12.566	-0.21711	-7.7420	48.364E-6
25.00000	32.00000	13.00000	-0.71310	12.566	-0.17051	-7.1642	45.377E-6
26.00000	32.00000	13.00000	-0.67584	12.566	-0.13441	-6.6366	42.517E-6
27.00000	32.00000	13.00000	-0.63501	12.566	-0.10672	-6.1535	39.788E-6
28.00000	32.00000	13.00000	-0.59006	12.566	-0.08515	-5.7073	37.179E-6
29.00000	32.00000	13.00000	-0.54048	12.566	-0.069187	-5.2897	34.664E-6
30.00000	32.00000	13.00000	-0.48599	12.566	-0.056491	-4.8931	32.219E-6
31.00000	32.00000	13.00000	-0.42665	12.566	-0.046484	-4.5112	29.819E-6
32.00000	32.00000	13.00000	-0.36304	12.566	-0.038471	-4.1403	27.453E-6
33.00000	32.00000	13.00000	-0.29633	12.566	-0.031954	-3.7794	25.125E-6
34.00000	32.00000	13.00000	-0.22834	12.566	-0.026591	-3.4314	22.861E-6
35.00000	32.00000	13.00000	-0.16125	12.566	-0.022160	-3.1011	20.699E-6
36.00000	32.00000	13.00000	-0.097227	12.566	-0.018507	-2.7942	18.680E-6
37.00000	32.00000	13.00000	-0.038088	12.566	-0.015511	-2.5146	16.834E-6
38.00000	32.00000	13.00000	0.014954	12.566	-0.013062	-2.2639	15.174E-6
39.00000	32.00000	13.00000	0.061308	12.566	-0.011062	-2.0415	13.698E-6
40.00000	32.00000	13.00000	0.10090	12.566	-0.0094237	-1.8453	12.394E-6
41.00000	32.00000	13.00000	0.13401	12.566	-0.0080741	-1.6726	11.244E-6
42.00000	32.00000	13.00000	0.16113	12.566	-0.0069555	-1.5206	10.229E-6
43.00000	32.00000	13.00000	0.18288	12.566	-0.0060224	-1.3864	9.3322E-6
44.00000	32.00000	13.00000	0.19990	12.566	-0.0052390	-1.2677	8.5394E-6
45.00000	32.00000	13.00000	0.21280	12.566	-0.0045772	-1.1623	7.8341E-6
46.00000	32.00000	13.00000	0.22218	12.566	-0.0040151	-1.0684	7.2053E-6
47.00000	32.00000	13.1					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location		Displacement		Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	2.00000	33.00000	13.00000	-0.36721	12.566	-0.43640	-8.7522	50.768E-6
	3.00000	33.00000	13.00000	-0.42134	12.566	-0.47881	-9.3151	53.739E-6
	4.00000	33.00000	13.00000	-0.47082	12.566	-0.51439	-9.8160	56.428E-6
	5.00000	33.00000	13.00000	-0.51491	12.566	-0.54292	-10.247	58.786E-6
	6.00000	33.00000	13.00000	-0.55325	12.566	-0.56485	-10.606	60.783E-6
	7.00000	33.00000	13.00000	-0.58576	12.566	-0.58089	-10.892	62.404E-6
	8.00000	33.00000	13.00000	-0.61262	12.566	-0.59177	-11.106	63.642E-6
	9.00000	33.00000	13.00000	-0.63409	12.566	-0.59807	-11.251	64.500E-6
	10.00000	33.00000	13.00000	-0.65052	12.566	-0.60017	-11.327	64.982E-6
	11.00000	33.00000	13.00000	-0.66227	12.567	-0.59818	-11.338	65.093E-6
	12.00000	33.00000	13.00000	-0.66968	12.566	-0.59198	-11.282	64.839E-6
	13.00000	33.00000	13.00000	-0.67306	12.566	-0.58122	-11.160	64.225E-6
	14.00000	33.00000	13.00000	-0.67272	12.566	-0.56532	-10.971	63.262E-6
	15.00000	33.00000	13.00000	-0.66889	12.566	-0.54357	-10.715	61.961E-6
	16.00000	33.00000	13.00000	-0.66182	12.566	-0.51524	-10.393	60.343E-6
	17.00000	33.00000	13.00000	-0.65173	12.566	-0.47992	-10.008	58.440E-6
	18.00000	33.00000	13.00000	-0.63885	12.566	-0.43780	-9.5662	56.291E-6
	19.00000	33.00000	13.00000	-0.62342	12.566	-0.39010	-9.0792	53.945E-6
	20.00000	33.00000	13.00000	-0.60567	12.566	-0.33914	-8.5611	51.455E-6
	21.00000	33.00000	13.00000	-0.58582	12.566	-0.28796	-8.0291	48.873E-6
	22.00000	33.00000	13.00000	-0.56402	12.566	-0.23962	-7.4997	46.251E-6
	23.00000	33.00000	13.00000	-0.54032	12.566	-0.19638	-6.9869	43.638E-6
	24.00000	33.00000	13.00000	-0.51467	12.566	-0.15942	-6.5002	41.074E-6
	25.00000	33.00000	13.00000	-0.48689	12.566	-0.12887	-6.0442	38.590E-6
	26.00000	33.00000	13.00000	-0.45674	12.566	-0.10417	-5.6200	36.201E-6
	27.00000	33.00000	13.00000	-0.42390	12.566	-0.084470	-5.2254	33.913E-6
	28.00000	33.00000	13.00000	-0.38807	12.566	-0.068847	-4.8570	31.720E-6
	29.00000	33.00000	13.00000	-0.34901	12.566	-0.056459	-4.5104	29.609E-6
	30.00000	33.00000	13.00000	-0.30665	12.566	-0.046594	-4.1815	27.568E-6
	31.00000	33.00000	13.00000	-0.26116	12.566	-0.038681	-3.8670	25.585E-6
	32.00000	33.00000	13.00000	-0.21304	12.566	-0.032274	-3.5648	23.654E-6
	33.00000	33.00000	13.00000	-0.16314	12.566	-0.027037	-3.2741	21.779E-6
	34.00000	33.00000	13.00000	-0.11266	12.566	-0.022722	-2.9963	19.972E-6
	35.00000	33.00000	13.00000	-0.062974	12.566	-0.019149	-2.7333	18.252E-6
	36.00000	33.00000	13.00000	-0.015467	12.566	-0.016185	-2.4878	16.638E-6
	37.00000	33.00000	13.00000	0.028669	12.566	-0.013726	-2.2616	15.145E-6
	38.00000	33.00000	13.00000	0.068571	12.566	-0.011687	-2.0558	13.783E-6
	39.00000	33.00000	13.00000	0.10374	12.566	-0.0099933	-1.8700	12.551E-6
	40.00000	33.00000	13.00000	0.13401	12.566	-0.0085841	-1.7034	11.443E-6
	41.00000	33.00000	13.00000	0.15947	12.567	-0.0074073	-1.5545	10.452E-6
	42.00000	33.00000	13.00000	0.18039	12.566	-0.0064202	-1.4216	9.5648E-6
	43.00000	33.00000	13.00000	0.19715	12.566	-0.0055883	-1.3028	8.7719E-6
	44.00000	33.00000	13.00000	0.21018	12.566	-0.0048838	-1.1966	8.0621E-6
	45.00000	33.00000	13.00000	0.21993	12.566	-0.0042843	-1.1015	7.4256E-6
	46.00000	33.00000	13.00000	0.22681	12.566	-0.0037718	-1.0161	6.8536E-6
	47.00000	33.00000	13.00000	0.23124	12.566	-0.0033316	-0.93927	6.3385E-6
	48.00000	33.00000	13.00000	0.23358	12.566	-0.0029521	-0.86994	5.8734E-6
	49.00000	33.00000	13.00000	0.23417	12.566	-0.0026236	-0.80725	5.4525E-6
	50.00000	33.00000	13.00000	0.23330	12.566	-0.0023381	-0.75042	5.0707E-6
	51.00000	33.00000	13.00000	0.23122	12.566	-0.0020892	-0.69878	4.7235E-6
	52.00000	33.00000	13.00000	0.22817	12.566	-0.0018715	-0.65176	4.4072E-6
	53.00000	33.00000	13.00000	0.22433	12.566	-0.0016805	-0.60884	4.1184E-6
	54.00000	33.00000	13.00000	0.21986	12.566	-0.0015124	-0.56960	3.8542E-6
	55.00000	33.00000	13.00000	0.21492	12.566	-0.0013641	-0.53364	3.6120E-6
	-25.00000	34.00000	13.00000	0.18663	12.566	-0.0038380	-0.73813	4.9561E-6
	-24.00000	34.00000	13.00000	0.19147	12.566	-0.0043452	-0.79082	5.3052E-6
	-23.00000	34.00000	13.00000	0.19608	12.566	-0.0049345	-0.84847	5.6863E-6
	-22.00000	34.00000	13.00000	0.20040	12.566	-0.0056216	-0.91163	6.1031E-6
	-21.00000	34.00000	13.00000	0.20433	12.566	-0.0064259	-0.98097	6.5596E-6
	-20.00000	34.00000	13.00000	0.20777	12.566	-0.0073714	-1.0572	7.0604E-6
	-19.00000	34.00000	13.00000	0.21058	12.566	-0.0084874	-1.1413	7.6107E-6
	-18.00000	34.00000	13.00000	0.21263	12.566	-0.0098109	-1.2340	8.2162E-6
	-17.00000	34.00000	13.00000	0.21375	12.566	-0.011388	-1.3366	8.8838E-6
	-16.00000	34.00000	13.00000	0.21375	12.566	-0.013275	-1.4503	9.6207E-6
	-15.00000	34.00000	13.00000	0.21242	12.566	-0.015546	-1.5765	10.435E-6
	-14.00000	34.00000	13.00000	0.20951	12.566	-0.018291	-1.7170	11.337E-6
	-13.00000	34.00000	13.00000	0.20476	12.566	-0.021627	-1.8735	12.336E-6
	-12.00000	34.00000	13.00000	0.19788	12.566	-0.025700	-2.0481	13.444E-6
	-11.00000	34.00000	13.00000	0.18854	12.566	-0.030693	-2.2433	14.673E-6
	-10.00000	34.00000	13.00000	0.17641	12.566	-0.036838	-2.4615	16.036E-6
	-9.00000	34.00000	13.00000	0.16116	12.566	-0.044419	-2.7055	17.545E-6
	-8.00000	34.00000	13.00000	0.14247	12.566	-0.053782	-2.9782	19.213E-6
	-7.00000	34.00000	13.00000	0.12005	12.566	-0.065326	-3.2821	21.050E-6
	-6.00000	34.00000	13.00000	0.093686	12.566	-0.079491	-3.6195	23.062E-6
	-5.00000	34.00000	13.00000	0.063295	12.566	-0.096706	-3.9917	25.248E-6
	-4.00000	34.00000	13.00000	0.028956	12.566	-0.11731	-4.3983	27.600E-6
	-3.00000	34.00000	13.00000	-0.0090242	12.566	-0.14142	-4.8368	30.097E-6
	-2.00000	34.00000	13.00000	-0.050074	12.566	-0.16879	-5.3015	32.707E-6
	-1.00000	34.00000	13.00000	-0.093352	12.566	-0.19869	-5.7838	35.385E-6
	0.00000	34.00000	13.00000	-0.13779	12.566	-0.22991	-6.2717	38.074E-6
	1.00000	34.00000	13.00000	-0.18218	12.566	-0.26096	-6.7518	40.713E-6
	2.00000	34.00000	13.00000	-0.22531	12.566	-0.29032	-7.2106	43.242E-6
	3.00000	34.00000	13.00000	-0.26611	12.566	-0.31676	-7.6358	45.601E-6
	4.00000	34.00000	13.00000	-0.30370	12.566	-0.33951	-8.0183	47.744E-6
	5.00000	34.00000	13.00000	-0.33748	12.566	-0.35827	-8.3515	49.633E-6
	6.00000	34.00000	13.00000	-0.36709	12.566	-0.37309	-8.6319	51.242E-6
	7.00000	34.00000	13.00000	-0.39241	12.566	-0.38418	-8.8578	52.557E-6
	8.00000	34.00000	13.00000	-0.41346	12.566	-0.39185	-9.0292	53.568E-6
	9.00000	34.00000	13.00000	-0.43038	12.566	-0.39635	-9.1463	54.275E-6
	10.00000	34.00000	13.00000	-0.44336	12.566	-0.39786	-9.2098	54.677E-6
	11.00000	34.00000	13.00000	-0.45265	12.566	-0.39643	-9.2203	5



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
51.00000	34.00000	13.00000	0.22927	12.566	-0.0019862	-0.67259	4.5470E-6
52.00000	34.00000	13.00000	0.22578	12.566	-0.0017830	-0.62852	4.2506E-6
53.00000	34.00000	13.00000	0.22164	12.566	-0.0016042	-0.58816	3.9790E-6
54.00000	34.00000	13.00000	0.21697	12.566	-0.0014465	-0.55114	3.7297E-6
55.00000	34.00000	13.00000	0.21191	12.566	-0.0013069	-0.51713	3.5005E-6
-25.00000	35.00000	13.00000	0.18396	12.566	-0.0035944	-0.71084	4.7750E-6
-24.00000	35.00000	13.00000	0.18881	12.566	-0.0040566	-0.76028	5.1027E-6
-23.00000	35.00000	13.00000	0.19349	12.566	-0.0045909	-0.81419	5.4595E-6
-22.00000	35.00000	13.00000	0.19792	12.566	-0.0052108	-0.87307	5.8485E-6
-21.00000	35.00000	13.00000	0.20202	12.566	-0.0059324	-0.93748	6.2730E-6
-20.00000	35.00000	13.00000	0.20571	12.566	-0.0067754	-1.0080	6.7371E-6
-19.00000	35.00000	13.00000	0.20887	12.566	-0.0077638	-1.0855	7.2449E-6
-18.00000	35.00000	13.00000	0.21139	12.566	-0.0089274	-1.1706	7.8015E-6
-17.00000	35.00000	13.00000	0.21313	12.566	-0.010302	-1.2642	8.4121E-6
-16.00000	35.00000	13.00000	0.21393	12.566	-0.011933	-1.3674	9.0828E-6
-15.00000	35.00000	13.00000	0.21361	12.566	-0.013876	-1.4813	9.8201E-6
-14.00000	35.00000	13.00000	0.21199	12.566	-0.016198	-1.6072	10.631E-6
-13.00000	35.00000	13.00000	0.20885	12.566	-0.018984	-1.7465	11.524E-6
-12.00000	35.00000	13.00000	0.20395	12.566	-0.022338	-1.9007	12.508E-6
-11.00000	35.00000	13.00000	0.19707	12.566	-0.026385	-2.0715	13.590E-6
-10.00000	35.00000	13.00000	0.18796	12.566	-0.031270	-2.2606	14.779E-6
-9.00000	35.00000	13.00000	0.17637	12.566	-0.037196	-2.4698	16.085E-6
-8.00000	35.00000	13.00000	0.16209	12.566	-0.044345	-2.7008	17.514E-6
-7.00000	35.00000	13.00000	0.14494	12.566	-0.052948	-2.9549	19.071E-6
-6.00000	35.00000	13.00000	0.12481	12.566	-0.063231	-3.2332	20.759E-6
-5.00000	35.00000	13.00000	0.10168	12.566	-0.075390	-3.5357	22.574E-6
-4.00000	35.00000	13.00000	0.075670	12.566	-0.089542	-3.8614	24.506E-6
-3.00000	35.00000	13.00000	0.047040	12.566	-0.10567	-4.2077	26.538E-6
-2.00000	35.00000	13.00000	0.016238	12.566	-0.12355	-4.5703	28.645E-6
-1.00000	35.00000	13.00000	-0.016125	12.566	-0.14274	-4.9426	30.792E-6
0.00000	35.00000	13.00000	-0.049298	12.566	-0.16295	-5.3165	32.939E-6
1.00000	35.00000	13.00000	-0.082450	12.566	-0.18225	-5.6842	35.042E-6
2.00000	35.00000	13.00000	-0.11475	12.566	-0.20098	-6.0355	37.055E-6
3.00000	35.00000	13.00000	-0.14543	12.566	-0.21807	-6.3627	38.937E-6
4.00000	35.00000	13.00000	-0.17387	12.566	-0.23304	-6.6590	40.651E-6
5.00000	35.00000	13.00000	-0.19958	12.566	-0.24564	-6.9193	42.169E-6
6.00000	35.00000	13.00000	-0.22228	12.566	-0.25579	-7.1403	43.469E-6
7.00000	35.00000	13.00000	-0.24179	12.566	-0.26353	-7.3201	44.537E-6
8.00000	35.00000	13.00000	-0.25809	12.566	-0.26895	-7.4577	45.364E-6
9.00000	35.00000	13.00000	-0.27123	12.566	-0.27217	-7.5527	45.946E-6
10.00000	35.00000	13.00000	-0.28132	12.566	-0.27232	-7.6052	46.283E-6
11.00000	35.00000	13.00000	-0.28852	12.566	-0.27223	-7.6155	46.373E-6
12.00000	35.00000	13.00000	-0.29300	12.566	-0.26908	-7.5838	46.222E-6
13.00000	35.00000	13.00000	-0.29493	12.566	-0.26372	-7.5108	45.834E-6
14.00000	35.00000	13.00000	-0.29448	12.566	-0.25606	-7.3971	45.215E-6
15.00000	35.00000	13.00000	-0.29182	12.566	-0.24599	-7.2439	44.376E-6
16.00000	35.00000	13.00000	-0.28711	12.566	-0.23349	-7.0532	43.331E-6
17.00000	35.00000	13.00000	-0.28051	12.566	-0.21862	-6.8281	42.100E-6
18.00000	35.00000	13.00000	-0.27216	12.566	-0.20164	-6.5726	40.705E-6
19.00000	35.00000	13.00000	-0.26221	12.566	-0.18304	-6.2925	39.175E-6
20.00000	35.00000	13.00000	-0.25079	12.566	-0.16340	-5.9944	37.541E-6
21.00000	35.00000	13.00000	-0.23800	12.566	-0.14377	-5.6853	35.837E-6
22.00000	35.00000	13.00000	-0.22393	12.566	-0.12469	-5.3723	34.092E-6
23.00000	35.00000	13.00000	-0.20860	12.566	-0.10690	-5.0618	32.338E-6
24.00000	35.00000	13.00000	-0.19202	12.566	-0.090853	-4.7585	30.598E-6
25.00000	35.00000	13.00000	-0.17413	12.566	-0.076577	-4.4660	28.891E-6
26.00000	35.00000	13.00000	-0.15487	12.566	-0.064634	-4.1859	27.229E-6
27.00000	35.00000	13.00000	-0.13416	12.566	-0.054363	-3.9191	25.619E-6
28.00000	35.00000	13.00000	-0.11192	12.566	-0.045751	-3.6653	24.064E-6
29.00000	35.00000	13.00000	-0.088151	12.566	-0.038571	-3.4237	22.563E-6
30.00000	35.00000	13.00000	-0.062923	12.566	-0.032600	-3.1953	21.115E-6
31.00000	35.00000	13.00000	-0.036415	12.566	-0.027634	-2.9737	19.718E-6
32.00000	35.00000	13.00000	-0.0089397	12.566	-0.023496	-2.7637	18.370E-6
33.00000	35.00000	13.00000	0.019061	12.566	-0.020037	-2.5635	17.075E-6
34.00000	35.00000	13.00000	0.047039	12.566	-0.017137	-2.3730	15.836E-6
35.00000	35.00000	13.00000	0.074384	12.566	-0.014698	-2.1921	14.657E-6
36.00000	35.00000	13.00000	0.10049	12.566	-0.012642	-2.0236	13.544E-6
37.00000	35.00000	13.00000	0.12481	12.566	-0.010904	-1.8657	12.502E-6
38.00000	35.00000	13.00000	0.14691	12.566	-0.0094338	-1.7193	11.534E-6
39.00000	35.00000	13.00000	0.16649	12.566	-0.0081867	-1.5844	10.640E-6
40.00000	35.00000	13.00000	0.18341	12.566	-0.0071270	-1.4600	9.8178E-6
41.00000	35.00000	13.00000	0.19762	12.566	-0.0062242	-1.3478	9.0658E-6
42.00000	35.00000	13.00000	0.20921	12.566	-0.0054531	-1.2448	8.3792E-6
43.00000	35.00000	13.00000	0.21830	12.566	-0.0047925	-1.1511	7.7535E-6
44.00000	35.00000	13.00000	0.22510	12.566	-0.0042247	-1.0658	7.1835E-6
45.00000	35.00000	13.00000	0.22982	12.566	-0.0037351	-0.9828	6.6644E-6
46.00000	35.00000	13.00000	0.23269	12.566	-0.0033115	-0.91763	6.1913E-6
47.00000	35.00000	13.00000	0.23395	12.566	-0.0029440	-0.85326	5.7597E-6
48.00000	35.00000	13.00000	0.23381	12.566	-0.0026241	-0.79454	5.3658E-6
49.00000	35.00000	13.00000	0.23247	12.566	-0.0023447	-0.74090	5.0056E-6
50.00000	35.00000	13.00000	0.23014	12.566	-0.0021001	-0.69184	4.6759E-6
51.00000	35.00000	13.00000	0.22696	12.566	-0.0018852	-0.64688	4.3737E-6
52.00000	35.00000	13.00000	0.22311	12.566	-0.0016961	-0.60563	4.0962E-6
53.00000	35.00000	13.00000	0.21871	12.566	-0.0015291	-0.56773	3.8411E-6
54.00000	35.00000	13.00000	0.21388	12.566	-0.0013813	-0.53286	3.6063E-6
55.00000	35.00000	13.00000	0.20872	12.566	-0.0012503	-0.50072	3.3897E-6
-25.00000	36.00000	13.00000	0.18117	12.566	-0.0033605	-0.68394	4.5963E-6
-24.00000	36.00000	13.00000	0.18603	12.566	-0.0037804	-0.73024	4.9035E-6
-23.00000	36.00000	13.00000	0.19075	12.566	-0.0042635	-0.78058	5.2369E-6
-22.00000	36.00000	13.00000	0.19526	12.566	-0.0048211	-0.83537	5.5993E-6
-21.00000	36.00000	13.00000	0.19951	12.566	-0.0054666	-0.89500	5.9934E-6
-20.00000	36.00000	13.00000	0.20341	12.566	-0.0062160	-0.96028	6.4227E-6
-19.00000	36.00000	13.00000	0.20687	12.566	-0.0070888	-1.0315	6.8906E-6
-18.00000	36.00000	13.00000	0.20979	12.566	-0.0081087	-1.1094	7.4012E-6
-17.00000	36.00000	13.00000	0.21207	12.566	-0.0093041	-1.1948	7.9589E-6
-16.00000	36.00000	13.00000	0.21356	12.566	-0.010710	-1.2883	8.5693E-6
-15.00000	36.00000	13.00000	0.21412	12.566	-0.012367	-1.3910	9.2347E-6
-14.00000	36.00000	13.00000	0.21361	12.566	-0.014327	-1.5037	9.9636E-6
-13.00000	36.00000	13.00000	0.21185	12.566	-0.016650	-1.6276	10.761E-6
-12.00000	36.00000	13.00000	0.20867	12.566	-0.019408	-1.7637	11.633E-6
-11.00000	36.00000	13.00000	0.20389	12.566	-0.022680	-1.9131	12.585E-6
-10.00000	36.00000	13.00000	0.19732	12.566	-0.026588	-2.0771	13.623E-6
-9.00000	36.00000	13.00000	0.18880	12.566	-0.031221	-2.2567	14.754E-6
-8.00000	36.00000	13.00000	0.17817	12.566	-0.036707	-2.4529	15.979E-6
-7.00000	36.00000	13.00000	0.16534	12.566	-0.043172	-2.6663	17.303E-6
-6.00000	36.00000	13.00000	0.15024	12.566	-0.050728	-2.8972	18.723E-6
-5.00000	36.00000	13.00000	0.13290	12.566	-0.059458	-3.1451	20.236E-6
-4.00000	36.00000	13.00000	0.11342	12.566	-0.069393	-3.4089	21.831E-6
-3.00000	36.00000	13.00000	0.092036	12.566	-0.080475	-3.6861	23.496E-6
-2.00000	36.00000	13.00000	0.069083	12.566	-0.092542	-3.9734	25.208E-6
-1.00000	36.00000	13.00000	-0.045009	12.566	-0.10553	-4.2666	26.943E-6
0.00000	36.00000	13.00000	0.020348	12.566	-0.11840	-4.5585	28.670E-6
1.00000	36.00000	13.00000	-0.0043157	12.566	-0.13135	-4.8448	30.358E-6
2.00000	36.00000	13.00000	-0.028397	12.566	-0.14373	-5.1186	31.972E-6
3.00000	36.00000	13.00000	-0.051351	12.566	-0.15512	-5.3743	33.483E-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
19.00000	36.00000	13.00000	-0.13756	12.566	-0.13191	-5.3435	33.748E-6
20.00000	36.00000	13.00000	-0.12840	12.566	-0.11904	-5.1109	32.425E-6
21.00000	36.00000	13.00000	-0.11816	12.566	-0.10602	-4.8688	31.040E-6
22.00000	36.00000	13.00000	-0.10691	12.566	-0.09325	-4.6219	29.616E-6
23.00000	36.00000	13.00000	-0.094947	12.566	-0.081319	-4.3748	28.176E-6
24.00000	36.00000	13.00000	-0.081495	12.566	-0.070287	-4.1309	26.738E-6
25.00000	36.00000	13.00000	-0.067320	12.566	-0.060389	-3.8931	25.319E-6
26.00000	36.00000	13.00000	-0.052132	12.566	-0.051682	-3.6632	23.928E-6
27.00000	36.00000	13.00000	-0.035901	12.566	-0.044135	-3.4420	22.574E-6
28.00000	36.00000	13.00000	-0.018616	12.566	-0.037664	-3.2299	21.260E-6
29.00000	36.00000	13.00000	-300.00E-6	12.566	-0.032158	-3.0269	19.988E-6
30.00000	36.00000	13.00000	0.018964	12.566	-0.027492	-2.8326	18.758E-6
31.00000	36.00000	13.00000	0.039020	12.566	-0.023545	-2.6468	17.572E-6
32.00000	36.00000	13.00000	0.059630	12.566	-0.020208	-2.4692	16.429E-6
33.00000	36.00000	13.00000	0.080474	12.566	-0.017384	-2.2998	15.331E-6
34.00000	36.00000	13.00000	0.101117	12.566	-0.014990	-2.1386	14.280E-6
35.00000	36.00000	13.00000	0.12130	12.566	-0.012957	-1.9859	13.280E-6
36.00000	36.00000	13.00000	0.14045	12.566	-0.011226	-1.8419	12.334E-6
37.00000	36.00000	13.00000	0.15824	12.566	-0.0097517	-1.7070	11.444E-6
38.00000	36.00000	13.00000	0.17438	12.566	-0.0084927	-1.5812	10.612E-6
39.00000	36.00000	13.00000	0.18862	12.566	-0.0074158	-1.4646	9.8378E-6
40.00000	36.00000	13.00000	0.20086	12.566	-0.0064931	-1.3568	9.1213E-6
41.00000	36.00000	13.00000	0.21105	12.566	-0.0057008	-1.2575	8.4605E-6
42.00000	36.00000	13.00000	0.21922	12.566	-0.0050188	-1.1663	7.8525E-6
43.00000	36.00000	13.00000	0.22546	12.566	-0.0044305	-1.0827	7.2941E-6
44.00000	36.00000	13.00000	0.22990	12.566	-0.0039215	-1.0061	6.7819E-6
45.00000	36.00000	13.00000	0.23269	12.566	-0.0034800	-0.93589	6.3124E-6
46.00000	36.00000	13.00000	0.23401	12.566	-0.0030960	-0.87162	5.8818E-6
47.00000	36.00000	13.00000	0.23403	12.566	-0.0027611	-0.81272	5.4870E-6
48.00000	36.00000	13.00000	0.23292	12.566	-0.0024683	-0.75872	5.1246E-6
49.00000	36.00000	13.00000	0.23083	12.566	-0.0022115	-0.70915	4.7918E-6
50.00000	36.00000	13.00000	0.22792	12.566	-0.0019858	-0.66361	4.4858E-6
51.00000	36.00000	13.00000	0.22432	12.566	-0.0017868	-0.62173	4.2042E-6
52.00000	36.00000	13.00000	0.22016	12.566	-0.0016111	-0.58317	3.9447E-6
53.00000	36.00000	13.00000	0.21556	12.566	-0.0014554	-0.54762	3.7054E-6
54.00000	36.00000	13.00000	0.21060	12.566	-0.0013173	-0.51480	3.4844E-6
55.00000	36.00000	13.00000	0.20537	12.566	-0.0011945	-0.48447	3.2801E-6
-25.00000	37.00000	13.00000	0.17828	12.566	-0.0031367	-0.65753	4.4207E-6
-24.00000	37.00000	13.00000	0.18313	12.566	-0.0035173	-0.70082	4.7082E-6
-23.00000	37.00000	13.00000	0.18786	12.566	-0.0039531	-0.74774	5.0194E-6
-22.00000	37.00000	13.00000	0.19244	12.566	-0.0044534	-0.79866	5.3564E-6
-21.00000	37.00000	13.00000	0.19679	12.566	-0.0050293	-0.85396	5.7218E-6
-20.00000	37.00000	13.00000	0.20087	12.566	-0.0056938	-0.91408	6.1183E-6
-19.00000	37.00000	13.00000	0.20458	12.566	-0.0064627	-0.97950	6.5488E-6
-18.00000	37.00000	13.00000	0.20785	12.566	-0.0073545	-1.0508	7.0166E-6
-17.00000	37.00000	13.00000	0.21057	12.566	-0.0083914	-1.1284	7.5252E-6
-16.00000	37.00000	13.00000	0.21265	12.566	-0.0095999	-1.2131	8.0782E-6
-15.00000	37.00000	13.00000	0.21397	12.566	-0.011011	-1.3056	8.6798E-6
-14.00000	37.00000	13.00000	0.21441	12.566	-0.012663	-1.4065	9.3341E-6
-13.00000	37.00000	13.00000	0.21383	12.566	-0.014598	-1.5165	10.045E-6
-12.00000	37.00000	13.00000	0.21210	12.566	-0.016867	-1.6366	10.818E-6
-11.00000	37.00000	13.00000	0.20908	12.566	-0.019527	-1.7675	11.656E-6
-10.00000	37.00000	13.00000	0.20464	12.566	-0.022643	-1.9099	12.563E-6
-9.00000	37.00000	13.00000	0.19866	12.566	-0.026285	-2.0644	13.543E-6
-8.00000	37.00000	13.00000	0.19105	12.566	-0.030522	-2.2315	14.597E-6
-7.00000	37.00000	13.00000	0.18172	12.566	-0.035423	-2.4166	15.724E-6
-6.00000	37.00000	13.00000	0.17066	12.566	-0.041043	-2.6043	16.924E-6
-5.00000	37.00000	13.00000	0.15791	12.566	-0.047412	-2.8092	18.191E-6
-4.00000	37.00000	13.00000	0.14357	12.566	-0.054526	-3.0249	19.516E-6
-3.00000	37.00000	13.00000	0.12782	12.566	-0.062327	-3.2494	20.899E-6
-2.00000	37.00000	13.00000	0.11091	12.566	-0.070696	-3.4802	22.291E-6
-1.00000	37.00000	13.00000	0.093181	12.566	-0.079453	-3.7136	23.704E-6
0.00000	37.00000	13.00000	0.075009	12.566	-0.088365	-3.9458	25.106E-6
1.00000	37.00000	13.00000	0.056813	12.566	-0.097166	-4.1724	26.471E-6
2.00000	37.00000	13.00000	0.039011	12.566	-0.10559	-4.3991	27.777E-6
3.00000	37.00000	13.00000	0.021997	12.566	-0.11339	-4.5917	28.999E-6
4.00000	37.00000	13.00000	0.0061122	12.566	-0.12036	-4.7765	30.117E-6
5.00000	37.00000	13.00000	-0.0083677	12.566	-0.12638	-4.9406	31.113E-6
6.00000	37.00000	13.00000	-0.021240	12.566	-0.13135	-5.0815	31.972E-6
7.00000	37.00000	13.00000	-0.032375	12.566	-0.13524	-5.1976	32.685E-6
8.00000	37.00000	13.00000	-0.041706	12.566	-0.13801	-5.2876	33.242E-6
9.00000	37.00000	13.00000	-0.049221	12.566	-0.13968	-5.3509	33.640E-6
10.00000	37.00000	13.00000	-0.054950	12.566	-0.14024	-5.3872	33.875E-6
11.00000	37.00000	13.00000	-0.058951	12.566	-0.13971	-5.3963	33.948E-6
12.00000	37.00000	13.00000	-0.061304	12.566	-0.13808	-5.3785	33.860E-6
13.00000	37.00000	13.00000	-0.062103	12.566	-0.13535	-5.3343	33.615E-6
14.00000	37.00000	13.00000	-0.061445	12.566	-0.13151	-5.2643	33.216E-6
15.00000	37.00000	13.00000	-0.059432	12.566	-0.12659	-5.1699	32.673E-6
16.00000	37.00000	13.00000	-0.056166	12.566	-0.12061	-5.0524	31.994E-6
17.00000	37.00000	13.00000	-0.051746	12.566	-0.11369	-4.9140	31.192E-6
18.00000	37.00000	13.00000	-0.046268	12.566	-0.10594	-4.7573	30.281E-6
19.00000	37.00000	13.00000	-0.039820	12.566	-0.097572	-4.5852	29.278E-6
20.00000	37.00000	13.00000	-0.032480	12.566	-0.088824	-4.4011	28.202E-6
21.00000	37.00000	13.00000	-0.024317	12.566	-0.079962	-4.2086	27.070E-6
22.00000	37.00000	13.00000	-0.015379	12.566	-0.071251	-4.0112	25.902E-6
23.00000	37.00000	13.00000	-0.0057006	12.566	-0.062922	-3.8121	24.714E-6
24.00000	37.00000	13.00000	0.0047014	12.566	-0.055154	-3.6140	23.522E-6
25.00000	37.00000	13.00000	0.015824	12.566	-0.048066	-3.4190	22.337E-6
26.00000	37.00000	13.00000	0.027672	12.566	-0.041711	-3.2289	21.170E-6
27.00000	37.00000	13.00000	0.040246	12.566	-0.036098	-3.0444	20.027E-6
28.00000	37.00000	13.00000	0.053534	12.566	-0.031194	-2.8664	18.913E-6
29.00000	37.00000	13.00000	0.067495	12.566	-0.026943	-2.6950	17.831E-6
30.00000	37.00000	13.00000	0.082050	12.566	-0.023281	-2.5303	16.782E-6
31.00000	37.00000	13.00000	0.097070	12.566	-0.020135	-	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	-13.00000	38.00000	13.00000	0.21485	12.566	-0.012802	-1.4132	9.3773E-6
	-12.00000	38.00000	13.00000	0.21433	12.566	-0.014670	-1.5192	10.062E-6
	-11.00000	38.00000	13.00000	0.21279	12.566	-0.016832	-1.6339	10.800E-6
	-10.00000	38.00000	13.00000	0.21011	12.566	-0.019330	-1.7577	11.594E-6
	-9.00000	38.00000	13.00000	0.20622	12.566	-0.022205	-1.8910	12.444E-6
	-8.00000	38.00000	13.00000	0.20105	12.566	-0.025500	-2.0340	13.352E-6
	-7.00000	38.00000	13.00000	0.19456	12.566	-0.029250	-2.1866	14.316E-6
	-6.00000	38.00000	13.00000	0.18674	12.566	-0.033480	-2.3485	15.333E-6
	-5.00000	38.00000	13.00000	0.17763	12.566	-0.038196	-2.5190	16.400E-6
	-4.00000	38.00000	13.00000	0.16732	12.566	-0.043383	-2.6969	17.508E-6
	-3.00000	38.00000	13.00000	0.15595	12.566	-0.048989	-2.8807	18.646E-6
	-2.00000	38.00000	13.00000	0.14372	12.566	-0.054933	-3.0682	19.804E-6
	-1.00000	38.00000	13.00000	0.13086	12.566	-0.061094	-3.2568	20.964E-6
	0.00000	38.00000	13.00000	0.11767	12.566	-0.067326	-3.4436	22.111E-6
	1.00000	38.00000	13.00000	0.10443	12.566	-0.073463	-3.6254	23.225E-6
	2.00000	38.00000	13.00000	0.091453	12.566	-0.079339	-3.7991	24.289E-6
	3.00000	38.00000	13.00000	0.079022	12.566	-0.084801	-3.9615	25.286E-6
	4.00000	38.00000	13.00000	0.067390	12.566	-0.089716	-4.1100	26.198E-6
	5.00000	38.00000	13.00000	0.056766	12.566	-0.093985	-4.2421	27.012E-6
	6.00000	38.00000	13.00000	0.047311	12.566	-0.097539	-4.3561	27.716E-6
	7.00000	38.00000	13.00000	0.039133	12.566	-0.100333	-4.4503	28.302E-6
	8.00000	38.00000	13.00000	0.032295	12.566	-0.10234	-4.5238	28.762E-6
	9.00000	38.00000	13.00000	0.026818	12.566	-0.10355	-4.5759	29.093E-6
	10.00000	38.00000	13.00000	0.022693	12.566	-0.10397	-4.6062	29.291E-6
	11.00000	38.00000	13.00000	0.019881	12.566	-0.10358	-4.6146	29.356E-6
	12.00000	38.00000	13.00000	0.018130	12.566	-0.10240	-4.6102	29.289E-6
	13.00000	38.00000	13.00000	0.017972	12.566	-0.10042	-4.5665	29.093E-6
	14.00000	38.00000	13.00000	0.018732	12.566	-0.097660	-4.5112	28.772E-6
	15.00000	38.00000	13.00000	0.020532	12.566	-0.094140	-4.4361	28.332E-6
	16.00000	38.00000	13.00000	0.023293	12.566	-0.089906	-4.3426	27.781E-6
	17.00000	38.00000	13.00000	0.026995	12.566	-0.085027	-4.2329	27.128E-6
	18.00000	38.00000	13.00000	0.031383	12.566	-0.079603	-4.1073	26.387E-6
	19.00000	38.00000	13.00000	0.036567	12.566	-0.073764	-3.9698	25.568E-6
	20.00000	38.00000	13.00000	0.042422	12.566	-0.067663	-3.8223	24.687E-6
	21.00000	38.00000	13.00000	0.048896	12.566	-0.061466	-3.6674	23.757E-6
	22.00000	38.00000	13.00000	0.055944	12.566	-0.055336	-3.5077	22.793E-6
	23.00000	38.00000	13.00000	0.063536	12.566	-0.049420	-3.3456	21.808E-6
	24.00000	38.00000	13.00000	0.071650	12.566	-0.043836	-3.1831	20.814E-6
	25.00000	38.00000	13.00000	0.080273	12.566	-0.038667	-3.0220	19.821E-6
	26.00000	38.00000	13.00000	0.089396	12.566	-0.033961	-2.8637	18.838E-6
	27.00000	38.00000	13.00000	0.099005	12.566	-0.029730	-2.7091	17.870E-6
	28.00000	38.00000	13.00000	0.10908	12.566	-0.025984	-2.5589	16.922E-6
	29.00000	38.00000	13.00000	0.11956	12.566	-0.022681	-2.4135	15.998E-6
	30.00000	38.00000	13.00000	0.13040	12.566	-0.019791	-2.2732	15.100E-6
	31.00000	38.00000	13.00000	0.14148	12.566	-0.017273	-2.1381	14.230E-6
	32.00000	38.00000	13.00000	0.15267	12.566	-0.015007	-2.0084	13.390E-6
	33.00000	38.00000	13.00000	0.16380	12.566	-0.013191	-1.8842	12.582E-6
	34.00000	38.00000	13.00000	0.17467	12.566	-0.011548	-1.7656	11.806E-6
	35.00000	38.00000	13.00000	0.18509	12.566	-0.010125	-1.6527	11.065E-6
	36.00000	38.00000	13.00000	0.19486	12.566	-0.0088915	-1.5456	10.360E-6
	37.00000	38.00000	13.00000	0.20379	12.566	-0.0078219	-1.4459	9.6922E-6
	38.00000	38.00000	13.00000	0.21173	12.566	-0.0068936	-1.3492	9.0618E-6
	39.00000	38.00000	13.00000	0.21856	12.566	-0.0060871	-1.2600	8.4695E-6
	40.00000	38.00000	13.00000	0.22421	12.566	-0.0053856	-1.1765	7.9147E-6
	41.00000	38.00000	13.00000	0.22864	12.566	-0.0047746	-1.0988	7.3968E-6
	42.00000	38.00000	13.00000	0.23187	12.566	-0.0042365	-1.0265	6.9145E-6
	43.00000	38.00000	13.00000	0.23392	12.566	-0.0037758	-0.95933	6.4662E-6
	44.00000	38.00000	13.00000	0.23486	12.566	-0.0033680	-0.89712	6.0502E-6
	45.00000	38.00000	13.00000	0.23477	12.566	-0.0030104	-0.83949	5.6645E-6
	46.00000	38.00000	13.00000	0.23375	12.566	-0.0026962	-0.78616	5.3071E-6
	47.00000	38.00000	13.00000	0.23189	12.566	-0.0024195	-0.73680	4.9761E-6
	48.00000	38.00000	13.00000	0.22930	12.566	-0.0021754	-0.69112	4.6695E-6
	49.00000	38.00000	13.00000	0.22607	12.566	-0.0019596	-0.64884	4.3856E-6
	50.00000	38.00000	13.00000	0.22230	12.566	-0.0017685	-0.60969	4.1224E-6
	51.00000	38.00000	13.00000	0.21809	12.566	-0.0015988	-0.57341	3.8784E-6
	52.00000	38.00000	13.00000	0.21250	12.566	-0.0014479	-0.53978	3.6521E-6
	53.00000	38.00000	13.00000	0.20862	12.566	-0.0013135	-0.50857	3.4420E-6
	54.00000	38.00000	13.00000	0.20352	12.566	-0.0011935	-0.47960	3.2469E-6
	55.00000	38.00000	13.00000	0.19825	12.566	-0.0010862	-0.45268	3.0654E-6
	-25.00000	39.00000	13.00000	0.17221	12.566	-0.0027219	-0.60644	4.0807E-6
	-24.00000	39.00000	13.00000	0.17699	12.566	-0.0030329	-0.64415	4.3316E-6
	-23.00000	39.00000	13.00000	0.18171	12.566	-0.0033849	-0.68478	4.6015E-6
	-22.00000	39.00000	13.00000	0.18633	12.566	-0.0037852	-0.72858	4.8921E-6
	-21.00000	39.00000	13.00000	0.19082	12.566	-0.0042408	-0.77581	5.2049E-6
	-20.00000	39.00000	13.00000	0.19513	12.566	-0.0047603	-0.82679	5.5420E-6
	-19.00000	39.00000	13.00000	0.19920	12.566	-0.0053155	-0.88185	5.9052E-6
	-18.00000	39.00000	13.00000	0.20297	12.566	-0.0060318	-0.94124	6.2966E-6
	-17.00000	39.00000	13.00000	0.20639	12.566	-0.0068085	-1.0054	6.7184E-6
	-16.00000	39.00000	13.00000	0.20937	12.566	-0.0076988	-1.0747	7.1729E-6
	-15.00000	39.00000	13.00000	0.21185	12.566	-0.0087199	-1.1495	7.6623E-6
	-14.00000	39.00000	13.00000	0.21375	12.566	-0.0098915	-1.2305	8.1889E-6
	-13.00000	39.00000	13.00000	0.21498	12.566	-0.011235	-1.3173	8.7549E-6
	-12.00000	39.00000	13.00000	0.21547	12.566	-0.012775	-1.4109	9.3624E-6
	-11.00000	39.00000	13.00000	0.21513	12.566	-0.014537	-1.5116	10.013E-6
	-10.00000	39.00000	13.00000	0.21390	12.566	-0.016546	-1.6195	10.708E-6
	-9.00000	39.00000	13.00000	0.21171	12.566	-0.018829	-1.7348	11.447E-6
	-8.00000	39.00000	13.00000	0.20852	12.566	-0.021409	-1.8575	12.231E-6
	-7.00000	39.00000	13.00000	0.20430	12.566	-0.024304	-1.9874	13.058E-6
	-6.00000	39.00000	13.00000	0.19906	12.566	-0.027524	-2.1241	13.925E-6
	-5.00000	39.00000	13.00000	0.19283	12.566	-0.031065	-2.2670	14.827E-6
	-4.00000	39.00000	13.00000	0.18569	12.566	-0.034909	-2.4159	15.759E-6
	-3.00000	39.00000	13.00000	0.17773	12.566	-0.039012	-2.5669	16.710E-6
	-2.00000	39.00000	13.00000	0.16912	12.566	-0.043320	-2.7209	17.672E-6
	-1.00000	39.00000	13.00000	0.16003	12.566	-0.047750	-2.8749	18.632E-6
	0.00000	39.00000	13.00000	0.15067	12.566	-0.052206	-3.0269	19.578E-6
	1.00000	39.00000	13.00000	0.14125	12.566	-0.056582	-3.1745	20.495E-6
	2.00000	39.00000	13.00000	0.13199	12.566	-0.060772	-3.3152	21.369E-6
	3.00000	39.00000	13.00000	0.12310	12.566	-0.064672	-3.4468	22.187E-6
	4.00000	39.00000	13.00000	0.11477	12.566	-0.068196	-3.5673	22.936E-6
	5.00000	39.00000	13.00000	0.10716	12.566	-0.071272	-3.6747	23.606E-6
	6.00000	39.00000	13.00000	0.10003	12.566	-0.073845	-3.7676	24.187E-6
	7.00000	39.00000	13.00000	0.094557	12.566	-0.075878	-3.8446	24.671E-6
	8.00000	39.00000	13.00000	0.089706	12.566	-0.077347	-3.9050	25.053E-6
	9.00000	39.00000	13.00000	0.085865	12.566	-0.078238	-3.9481	25.328E-6
	10.00000	39.00000	13.00000	0.083032	12.566	-0.078543	-3.9735	25.495E-6
	11.00000	39.00000	13.00000	0.081186	12.566	-0.078261	-3.9811	25.553E-6
	12.00000	39.00000	13.00000	0.080290	12.566	-0.077393	-3.9711	25.503E-6
	13.00000	39.00000	13.00000	0.080295	12.566	-0.075948	-3.9437	25.345E-6
	14.00000	39.00000	13.00000	0.081144	12.566	-0.073940	-3.8996	25.085E-6
	15.00000	39.00000	13.00000	0.082777	12.566	-0.071392	-3.8394	24.727E-6
	16.00000	39.00000	13.00000	0.085				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	36.00000	39.00000	13.00000	0.21237	12.566	-0.0079248	-1.4228
	37.00000	39.00000	13.00000	0.21832	12.566	-0.0070121	-1.3344
	38.00000	39.00000	13.00000	0.22349	12.566	-0.0062139	-1.2508
	39.00000	39.00000	13.00000	0.22779	12.566	-0.0055152	-1.1721
	40.00000	39.00000	13.00000	0.23117	12.566	-0.0049032	-1.0981
	41.00000	39.00000	13.00000	0.23360	12.566	-0.0043666	-1.0289
	42.00000	39.00000	13.00000	0.23508	12.566	-0.0038956	-0.96420
	43.00000	39.00000	13.00000	0.23564	12.566	-0.0034816	-0.90384
	44.00000	39.00000	13.00000	0.23533	12.566	-0.0031171	-0.84761
	45.00000	39.00000	13.00000	0.23420	12.566	-0.0027958	-0.79529
	46.00000	39.00000	13.00000	0.23233	12.566	-0.0025121	-0.74664
	47.00000	39.00000	13.00000	0.22980	12.566	-0.0022612	-0.70142
	48.00000	39.00000	13.00000	0.22667	12.566	-0.0020388	-0.65940
	49.00000	39.00000	13.00000	0.22304	12.566	-0.0018415	-0.62036
	50.00000	39.00000	13.00000	0.21897	12.566	-0.0016660	-0.58407
	51.00000	39.00000	13.00000	0.21455	12.566	-0.0015097	-0.55033
	52.00000	39.00000	13.00000	0.20983	12.566	-0.0013702	-0.51895
	53.00000	39.00000	13.00000	0.20487	12.566	-0.0012456	-0.48974
	54.00000	39.00000	13.00000	0.19975	12.566	-0.0011340	-0.46255
	55.00000	39.00000	13.00000	0.19450	12.566	-0.0010340	-0.43721
	-25.00000	40.00000	13.00000	0.19005	12.566	-0.0025312	-0.58189
	-24.00000	40.00000	13.00000	0.17377	12.566	-0.0028112	-0.61703
	-23.00000	40.00000	13.00000	0.17846	12.566	-0.0031272	-0.65478
	-22.00000	40.00000	13.00000	0.18308	12.566	-0.0034843	-0.69534
	-21.00000	40.00000	13.00000	0.18759	12.566	-0.0038887	-0.73894
	-20.00000	40.00000	13.00000	0.19197	12.566	-0.0043197	-0.78581
	-19.00000	40.00000	13.00000	0.19615	12.566	-0.0048669	-0.83622
	-18.00000	40.00000	13.00000	0.20010	12.566	-0.0054575	-0.89043
	-17.00000	40.00000	13.00000	0.20375	12.566	-0.0061289	-0.94872
	-16.00000	40.00000	13.00000	0.20707	12.566	-0.0068924	-1.0114
	-15.00000	40.00000	13.00000	0.20997	12.566	-0.0077606	-1.0787
	-14.00000	40.00000	13.00000	0.21240	12.566	-0.0087482	-1.1509
	-13.00000	40.00000	13.00000	0.21431	12.566	-0.0098698	-1.2283
	-12.00000	40.00000	13.00000	0.21561	12.566	-0.011142	-1.3112
	-11.00000	40.00000	13.00000	0.21626	12.566	-0.012581	-1.3997
	-10.00000	40.00000	13.00000	0.21620	12.566	-0.014205	-1.4939
	-9.00000	40.00000	13.00000	0.21538	12.566	-0.016028	-1.5939
	-8.00000	40.00000	13.00000	0.21378	12.566	-0.018062	-1.6996
	-7.00000	40.00000	13.00000	0.21137	12.566	-0.020317	-1.8107
	-6.00000	40.00000	13.00000	0.20818	12.566	-0.022794	-1.9268
	-5.00000	40.00000	13.00000	0.20422	12.566	-0.025486	-2.0472
	-4.00000	40.00000	13.00000	0.19955	12.566	-0.028374	-2.1714
	-3.00000	40.00000	13.00000	0.19426	12.566	-0.031429	-2.2979
	-2.00000	40.00000	13.00000	0.18846	12.566	-0.034607	-2.4255
	-1.00000	40.00000	13.00000	0.18228	12.566	-0.037852	-2.5525
	0.00000	40.00000	13.00000	0.17587	12.566	-0.041101	-2.6778
	1.00000	40.00000	13.00000	0.16939	12.566	-0.044282	-2.7984
	2.00000	40.00000	13.00000	0.16300	12.566	-0.047324	-2.9136
	3.00000	40.00000	13.00000	0.15685	12.566	-0.050159	-3.0213
	4.00000	40.00000	13.00000	0.15109	12.566	-0.052726	-3.1199
	5.00000	40.00000	13.00000	0.14583	12.566	-0.054973	-3.2073
	6.00000	40.00000	13.00000	0.14117	12.566	-0.056860	-3.2841
	7.00000	40.00000	13.00000	0.13718	12.566	-0.058356	-3.3476
	8.00000	40.00000	13.00000	0.13390	12.566	-0.059440	-3.3975
	9.00000	40.00000	13.00000	0.13136	12.566	-0.060099	-3.4333
	10.00000	40.00000	13.00000	0.12957	12.566	-0.060927	-3.4541
	11.00000	40.00000	13.00000	0.12849	12.566	-0.060118	-3.4617
	12.00000	40.00000	13.00000	0.12813	12.566	-0.059477	-3.4541
	13.00000	40.00000	13.00000	0.12842	12.566	-0.058411	-3.4324
	14.00000	40.00000	13.00000	0.12934	12.566	-0.056934	-3.3969
	15.00000	40.00000	13.00000	0.13084	12.566	-0.055067	-3.3489
	16.00000	40.00000	13.00000	0.13287	12.566	-0.052839	-3.2876
	17.00000	40.00000	13.00000	0.13537	12.566	-0.050293	-3.2157
	18.00000	40.00000	13.00000	0.13831	12.566	-0.047477	-3.1338
	19.00000	40.00000	13.00000	0.14163	12.566	-0.044455	-3.0432
	20.00000	40.00000	13.00000	0.14530	12.566	-0.041292	-2.9455
	21.00000	40.00000	13.00000	0.14927	12.566	-0.038061	-2.8420
	22.00000	40.00000	13.00000	0.15351	12.566	-0.034832	-2.7344
	23.00000	40.00000	13.00000	0.15801	12.566	-0.031668	-2.6240
	24.00000	40.00000	13.00000	0.16273	12.566	-0.028625	-2.5120
	25.00000	40.00000	13.00000	0.16766	12.566	-0.025748	-2.3997
	26.00000	40.00000	13.00000	0.17278	12.566	-0.023059	-2.2879
	27.00000	40.00000	13.00000	0.17807	12.566	-0.020585	-2.1775
	28.00000	40.00000	13.00000	0.18350	12.566	-0.018329	-2.0690
	29.00000	40.00000	13.00000	0.18903	12.566	-0.016291	-1.9631
	30.00000	40.00000	13.00000	0.19462	12.566	-0.014462	-1.8599
	31.00000	40.00000	13.00000	0.20020	12.566	-0.012829	-1.7599
	32.00000	40.00000	13.00000	0.20570	12.566	-0.011378	-1.6633
	33.00000	40.00000	13.00000	0.21102	12.566	-0.010093	-1.5701
	34.00000	40.00000	13.00000	0.21608	12.566	-0.0089566	-1.4807
	35.00000	40.00000	13.00000	0.22077	12.566	-0.007953	-1.3957
	36.00000	40.00000	13.00000	0.22499	12.566	-0.0070693	-1.3133
	37.00000	40.00000	13.00000	0.22865	12.566	-0.0062898	-1.2356
	38.00000	40.00000	13.00000	0.23167	12.566	-0.0056028	-1.1619
	39.00000	40.00000	13.00000	0.23401	12.566	-0.0049973	-1.0921
	40.00000	40.00000	13.00000	0.23561	12.566	-0.0044634	-1.0264
	41.00000	40.00000	13.00000	0.23647	12.566	-0.0039922	-0.96454
	42.00000	40.00000	13.00000	0.23659	12.566	-0.0035761	-0.90648
	43.00000	40.00000	13.00000	0.23597	12.566	-0.0032083	-0.85208
	44.00000	40.00000	13.00000	0.23467	12.566	-0.0028828	-0.80118
	45.00000	40.00000	13.00000	0.23272	12.566	-0.0025942	-0.75362
	46.00000	40.00000	13.00000	0.23018	12.566	-0.0023385	-0.70919
	47.00000	40.00000	13.00000	0.22711	12.566	-0.0021112	-0.66774
	48.00000	40.00000	13.00000	0.22357	12.566	-0.0019089	-0.62907
	49.00000	40.00000	13.00000	0.21963	12.566	-0.0017287	-0.59301
	50.00000	40.00000	13.00000	0.21534	12.566	-0.0015678	-0.55937
	51.00000	40.00000	13.00000	0.21076	12.566	-0.0014241	-0.52800
	52.00000	40.00000	13.00000	0.20596	12.566	-0.0012954	-0.49873
	53.00000	40.00000	13.00000	0.20097	12.566	-0.0011800	-0.47141
	54.00000	40.00000	13.00000	0.19585	12.566	-0.0010764	-0.44591
	55.00000	40.00000	13.00000	0.19064	12.566	-0.0009835	-0.42204
	-25.00000	41.00000	13.00000	0.16582	12.566	-0.0023517	-0.55806
	-24.00000	41.00000	13.00000	0.17048	12.566	-0.0026036	-0.59078
	-23.00000	41.00000	13.00000	0.17512	12.566	-0.0028866	-0.62582
	-22.00000	41.00000	13.00000	0.17971	12.566	-0.0032050	-0.66336
	-21.00000	41.00000	13.00000	0.18422	12.566	-0.0035633	-0.70357
	-20.00000	41.00000	13.00000	0.18863	12.566	-0.0039672	-0.74665
	-19.00000	41.00000	13.00000	0.19289	12.566	-0.0044227	-0.79280
	-18.00000	41.00000	13.00000	0.19696	12.566	-0.0049367	-0.84224
	-17.00000	41.00000	13.00000	0.20081	12.566	-0.0055168	-0.89518
	-16.00000	41.00000	13.00000	0.20437	12.566	-0.0061718	-0.95189
	-15.00000	41.00000	13.00000	0.20761	12.566	-0.0069105	-1.0124
	-14.00000	41.00000	13.00000	0.21047	12.566	-0.0077435	-1.0770
	-13.00000	41.00000	13.00000	0.21291	12.566	-0.0086813	-1.1460
	-12.00000	41.00000	13.00000	0.21487	12.566	-0.0097349	-1.2194
	-11.00000	41.00000	13.00000	0.21631	12.566	-0.010915	-1.2973
	-10.00000	41.00000	13.00000	0.21719	12.566	-0.012233	-1.3798
	-9.00000	41.00000	13.00000	0.21747	12.566	-0.013696	-1.4668
	-8.00000	41.00000	13.00000	0.21713	12.566	-0.015312	-1.5581
	-7.00000	41.00000	13.00000	0.21616	12.566	-0.017083	-1.6536
	-6.00000	41.00000	13.00000	0.21457	12.566	-0.019000	-1.7527
	-5.00000	41.00000	13.00000	0.21239	12.566	-0.021078	-1.8550
	-4.00000	41.00000	13.00000	0.20966	12.566	-0.023277	-1.9597
	-3.00000	41.00000	13.00000	0.20644	12.566	-0.025583	-2.0658
	-2.00000	41.00000	13.00000	0.20281	12.566	-0.027964	-2.1724
	-1.00000	41.00000	13.00000	0.19888	12.566	-0.030381	-2.2781
	0.						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
4.00000	41.00000	13.00000	0.17857	12.566	-0.041374	-2.7470	17.890E-6
5.00000	41.00000	13.00000	0.17514	12.566	-0.043037	-2.8197	18.352E-6
6.00000	41.00000	13.00000	0.17212	12.566	-0.044437	-2.8828	18.752E-6
7.00000	41.00000	13.00000	0.16958	12.566	-0.045550	-2.9354	19.090E-6
8.00000	41.00000	13.00000	0.16754	12.566	-0.046358	-2.9769	19.356E-6
9.00000	41.00000	13.00000	0.16603	12.566	-0.046850	-3.0068	19.551E-6
10.00000	41.00000	13.00000	0.16505	12.566	-0.047020	-3.0250	19.671E-6
11.00000	41.00000	13.00000	0.16460	12.566	-0.046865	-3.0312	19.716E-6
12.00000	41.00000	13.00000	0.16465	12.566	-0.046387	-3.0255	19.687E-6
13.00000	41.00000	13.00000	0.16517	12.566	-0.045594	-3.0081	19.585E-6
14.00000	41.00000	13.00000	0.16615	12.566	-0.044496	-2.9794	19.412E-6
15.00000	41.00000	13.00000	0.16753	12.566	-0.043111	-2.9400	19.171E-6
16.00000	41.00000	13.00000	0.16929	12.566	-0.041463	-2.8904	18.867E-6
17.00000	41.00000	13.00000	0.17138	12.566	-0.039582	-2.8316	18.504E-6
18.00000	41.00000	13.00000	0.17376	12.566	-0.037504	-2.7644	18.088E-6
19.00000	41.00000	13.00000	0.17640	12.566	-0.035274	-2.6899	17.626E-6
20.00000	41.00000	13.00000	0.17927	12.566	-0.032936	-2.6093	17.124E-6
21.00000	41.00000	13.00000	0.18233	12.566	-0.030541	-2.5237	16.589E-6
22.00000	41.00000	13.00000	0.18555	12.566	-0.028136	-2.4342	16.028E-6
23.00000	41.00000	13.00000	0.18892	12.566	-0.025766	-2.3420	15.447E-6
24.00000	41.00000	13.00000	0.19241	12.566	-0.023460	-2.2481	14.854E-6
25.00000	41.00000	13.00000	0.19600	12.566	-0.021275	-2.1534	14.253E-6
26.00000	41.00000	13.00000	0.19968	12.566	-0.019209	-2.0587	13.649E-6
27.00000	41.00000	13.00000	0.20343	12.566	-0.017287	-1.9647	13.047E-6
28.00000	41.00000	13.00000	0.20721	12.566	-0.015515	-1.8719	12.451E-6
29.00000	41.00000	13.00000	0.21101	12.566	-0.013897	-1.7800	11.863E-6
30.00000	41.00000	13.00000	0.21478	12.566	-0.012429	-1.6919	11.286E-6
31.00000	41.00000	13.00000	0.21847	12.566	-0.011106	-1.6054	10.723E-6
32.00000	41.00000	13.00000	0.22203	12.566	-0.0099173	-1.5214	10.174E-6
33.00000	41.00000	13.00000	0.22540	12.566	-0.0088544	-1.4402	9.6424E-6
34.00000	41.00000	13.00000	0.22850	12.566	-0.0079060	-1.3620	9.1285E-6
35.00000	41.00000	13.00000	0.23126	12.566	-0.0070621	-1.2870	8.6337E-6
36.00000	41.00000	13.00000	0.23362	12.566	-0.0063117	-1.2151	8.1587E-6
37.00000	41.00000	13.00000	0.23552	12.566	-0.0056453	-1.1465	7.7044E-6
38.00000	41.00000	13.00000	0.23689	12.566	-0.0050537	-1.0812	7.2711E-6
39.00000	41.00000	13.00000	0.23771	12.566	-0.0045287	-1.0192	6.8592E-6
40.00000	41.00000	13.00000	0.23795	12.566	-0.0040627	-0.96054	6.4686E-6
41.00000	41.00000	13.00000	0.23759	12.566	-0.0036491	-0.90513	6.0991E-6
42.00000	41.00000	13.00000	0.23664	12.566	-0.0032816	-0.85291	5.7504E-6
43.00000	41.00000	13.00000	0.23511	12.566	-0.0029551	-0.80378	5.4220E-6
44.00000	41.00000	13.00000	0.23303	12.566	-0.0026448	-0.75762	5.1131E-6
45.00000	41.00000	13.00000	0.23045	12.566	-0.0024059	-0.71432	4.8230E-6
46.00000	41.00000	13.00000	0.22739	12.566	-0.0021753	-0.67372	4.5508E-6
47.00000	41.00000	13.00000	0.22391	12.566	-0.0019696	-0.63570	4.2957E-6
48.00000	41.00000	13.00000	0.22006	12.566	-0.0017858	-0.60010	4.0567E-6
49.00000	41.00000	13.00000	0.21589	12.566	-0.0016214	-0.56679	3.8328E-6
50.00000	41.00000	13.00000	0.21144	12.566	-0.0014741	-0.53562	3.6232E-6
51.00000	41.00000	13.00000	0.20677	12.566	-0.0013420	-0.50645	3.4270E-6
52.00000	41.00000	13.00000	0.20192	12.566	-0.0012234	-0.47916	3.2432E-6
53.00000	41.00000	13.00000	0.19693	12.566	-0.0011168	-0.45361	3.0712E-6
54.00000	41.00000	13.00000	0.19184	12.566	-0.0010207	-0.42978	2.9102E-6
55.00000	41.00000	13.00000	0.18669	12.566	-934.14E-6	-0.40730	2.7590E-6
-25.00000	42.00000	13.00000	0.16254	12.566	-0.0021832	-0.53499	3.6044E-6
-24.00000	42.00000	13.00000	0.16712	12.566	-0.0024096	-0.56544	3.8074E-6
-23.00000	42.00000	13.00000	0.17169	12.566	-0.0026628	-0.59794	4.0240E-6
-22.00000	42.00000	13.00000	0.17624	12.566	-0.0029462	-0.63265	4.2505E-6
-21.00000	42.00000	13.00000	0.18073	12.566	-0.0032636	-0.66892	4.5013E-6
-20.00000	42.00000	13.00000	0.18514	12.566	-0.0036193	-0.70930	4.7640E-6
-19.00000	42.00000	13.00000	0.18945	12.566	-0.0040181	-0.75155	5.0440E-6
-18.00000	42.00000	13.00000	0.19360	12.566	-0.0044653	-0.79663	5.3423E-6
-17.00000	42.00000	13.00000	0.19758	12.566	-0.0049666	-0.84478	5.6600E-6
-16.00000	42.00000	13.00000	0.20133	12.566	-0.0055285	-0.89592	5.9978E-6
-15.00000	42.00000	13.00000	0.20483	12.566	-0.0061577	-0.95044	6.3568E-6
-14.00000	42.00000	13.00000	0.20802	12.566	-0.0068615	-1.0084	6.7376E-6
-13.00000	42.00000	13.00000	0.21088	12.566	-0.0076472	-1.0699	7.1409E-6
-12.00000	42.00000	13.00000	0.21336	12.566	-0.0085221	-1.1350	7.5670E-6
-11.00000	42.00000	13.00000	0.21542	12.566	-0.0094934	-1.2037	8.0160E-6
-10.00000	42.00000	13.00000	0.21704	12.566	-0.010567	-1.2761	8.4876E-6
-9.00000	42.00000	13.00000	0.21818	12.566	-0.011749	-1.3520	8.9812E-6
-8.00000	42.00000	13.00000	0.21884	12.566	-0.013041	-1.4312	9.4954E-6
-7.00000	42.00000	13.00000	0.21900	12.566	-0.014440	-1.5130	10.0280E-6
-6.00000	42.00000	13.00000	0.21867	12.566	-0.015952	-1.5986	10.578E-6
-5.00000	42.00000	13.00000	0.21788	12.566	-0.017561	-1.6859	11.140E-6
-4.00000	42.00000	13.00000	0.21665	12.566	-0.019256	-1.7748	11.711E-6
-3.00000	42.00000	13.00000	0.21503	12.566	-0.021019	-1.8644	12.287E-6
-2.00000	42.00000	13.00000	0.21308	12.566	-0.022827	-1.9540	12.861E-6
-1.00000	42.00000	13.00000	0.21088	12.566	-0.024653	-2.0426	13.428E-6
0.00000	42.00000	13.00000	0.20851	12.566	-0.026464	-2.1292	13.981E-6
1.00000	42.00000	13.00000	0.20604	12.566	-0.028228	-2.2126	14.514E-6
2.00000	42.00000	13.00000	0.20358	12.566	-0.029909	-2.2918	15.020E-6
3.00000	42.00000	13.00000	0.20119	12.566	-0.031477	-2.3657	15.492E-6
4.00000	42.00000	13.00000	0.19895	12.566	-0.032893	-2.4333	15.924E-6
5.00000	42.00000	13.00000	0.19694	12.566	-0.034140	-2.4938	16.311E-6
6.00000	42.00000	13.00000	0.19521	12.566	-0.035190	-2.5463	16.648E-6
7.00000	42.00000	13.00000	0.19379	12.566	-0.036026	-2.5902	16.930E-6
8.00000	42.00000	13.00000	0.19272	12.566	-0.036634	-2.6249	17.154E-6
9.00000	42.00000	13.00000	0.19202	12.566	-0.037005	-2.6501	17.319E-6
10.00000	42.00000	13.00000	0.19168	12.566	-0.037133	-2.6655	17.421E-6
11.00000	42.00000	13.00000	0.19171	12.566	-0.037016	-2.6710	17.461E-6
12.00000	42.00000	13.00000	0.19208	12.566	-0.036657	-2.6668	17.439E-6
13.00000	42.00000	13.00000	0.19279	12.566	-0.036060	-2.6528	17.356E-6
14.00000	42.00000	13.00000	0.19380	12.566	-0.035237	-2.6294	17.214E-6
15.00000	42.00000	13.00000	0.19509	12.566	-0.034198	-2.5971	17.015E-6
16.00000	42.00000	13.00000	0.19662	12.566	-0.032964	-2.5564	16.762E-6
17.00000	42.00000	13.00000	0.19837	12.566	-0.031556	-2.5079	16.460E-6
18.00000	42.00000	13.00000	0.20030	12.566	-0.030002	-2.4524	16.113E-6
19.00000	42.00000	13.00000	0.20239	12.566	-0.028332	-2.3907	15.727E-6
20.00000	42.00000	13.00000	0.20460	12.566	-0.026579	-2.3237	15.306E-6
21.00000	42.00000	13.00000	0.20692	12.566	-0.024778	-2.2523	14.855E-6
22.00000	42.00000	13.00000	0.20931	12.566	-0.022961	-2.1774	14.382E-6
23.00000	42.00000	13.00000	0.21177	12.566	-0.021160	-2.0997	13.890E-6
24.00000	42.00000	13.00000	0.21426	12.566	-0.019403	-2.0206	13.385E-6
25.00000	42.00000	13.00000	0.21678	12.566	-0.017713	-1.9403	12.872E-6
26.00000	42.00000	13.00000					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
53.00000	42.00000	13.00000	0.19277	12.566	-0.0010560	-0.43636	2.9547E-6
54.00000	42.00000	13.00000	0.18774	12.566	-967.08E-6	-0.41394	2.8037E-6
55.00000	42.00000	13.00000	0.18267	12.566	-886.69E-6	-0.39290	2.6618E-6
-25.00000	43.00000	13.00000	0.15921	12.566	-0.0020255	-0.51270	3.4556E-6
-24.00000	43.00000	13.00000	0.16370	12.566	-0.0022288	-0.54101	3.6445E-6
-23.00000	43.00000	13.00000	0.16819	12.566	-0.0024552	-0.57115	3.8455E-6
-22.00000	43.00000	13.00000	0.17268	12.566	-0.0027073	-0.60324	4.0592E-6
-21.00000	43.00000	13.00000	0.17713	12.566	-0.0029882	-0.63739	4.2864E-6
-20.00000	43.00000	13.00000	0.18153	12.566	-0.0033013	-0.67375	4.5280E-6
-19.00000	43.00000	13.00000	0.18584	12.566	-0.0036504	-0.71241	4.7846E-6
-18.00000	43.00000	13.00000	0.19004	12.566	-0.0040394	-0.75352	5.0570E-6
-17.00000	43.00000	13.00000	0.19410	12.566	-0.0044729	-0.79719	5.3460E-6
-16.00000	43.00000	13.00000	0.19799	12.566	-0.0049554	-0.84352	5.6521E-6
-15.00000	43.00000	13.00000	0.20167	12.566	-0.0054919	-0.89263	5.9761E-6
-14.00000	43.00000	13.00000	0.20512	12.566	-0.0060874	-0.94460	6.3184E-6
-13.00000	43.00000	13.00000	0.20830	12.566	-0.0067472	-0.99948	6.6792E-6
-12.00000	43.00000	13.00000	0.21117	12.566	-0.0074759	-1.0573	7.0588E-6
-11.00000	43.00000	13.00000	0.21372	12.566	-0.0082782	-1.1181	7.4569E-6
-10.00000	43.00000	13.00000	0.21591	12.566	-0.0091576	-1.1817	7.8730E-6
-9.00000	43.00000	13.00000	0.21773	12.566	-0.010117	-1.2481	8.3064E-6
-8.00000	43.00000	13.00000	0.21916	12.566	-0.011156	-1.3172	8.7558E-6
-7.00000	43.00000	13.00000	0.22020	12.566	-0.012275	-1.3885	9.2194E-6
-6.00000	43.00000	13.00000	0.22085	12.566	-0.013469	-1.4618	9.6950E-6
-5.00000	43.00000	13.00000	0.22113	12.566	-0.014731	-1.5366	10.180E-6
-4.00000	43.00000	13.00000	0.22106	12.566	-0.016051	-1.6124	10.670E-6
-3.00000	43.00000	13.00000	0.22067	12.566	-0.017416	-1.6887	11.162E-6
-2.00000	43.00000	13.00000	0.22002	12.566	-0.018805	-1.7645	11.651E-6
-1.00000	43.00000	13.00000	0.21915	12.566	-0.020202	-1.8393	12.132E-6
0.00000	43.00000	13.00000	0.21812	12.566	-0.021582	-1.9122	12.601E-6
1.00000	43.00000	13.00000	0.21699	12.566	-0.022921	-1.9822	13.051E-6
2.00000	43.00000	13.00000	0.21583	12.566	-0.024190	-2.0488	13.478E-6
3.00000	43.00000	13.00000	0.21470	12.566	-0.025382	-2.1105	13.876E-6
4.00000	43.00000	13.00000	0.21365	12.566	-0.026457	-2.1671	14.240E-6
5.00000	43.00000	13.00000	0.21273	12.566	-0.027401	-2.2177	14.566E-6
6.00000	43.00000	13.00000	0.21199	12.566	-0.028197	-2.2617	14.850E-6
7.00000	43.00000	13.00000	0.21144	12.566	-0.028832	-2.2988	15.088E-6
8.00000	43.00000	13.00000	0.21112	12.566	-0.029293	-2.3278	15.278E-6
9.00000	43.00000	13.00000	0.21104	12.566	-0.029575	-2.3491	15.417E-6
10.00000	43.00000	13.00000	0.21121	12.566	-0.029673	-2.3622	15.505E-6
11.00000	43.00000	13.00000	0.21160	12.566	-0.029585	-2.3672	15.541E-6
12.00000	43.00000	13.00000	0.21223	12.566	-0.029233	-2.3643	15.524E-6
13.00000	43.00000	13.00000	0.21307	12.566	-0.028860	-2.3526	15.456E-6
14.00000	43.00000	13.00000	0.21410	12.566	-0.028235	-2.3335	15.339E-6
15.00000	43.00000	13.00000	0.21530	12.566	-0.027448	-2.3068	15.173E-6
16.00000	43.00000	13.00000	0.21665	12.566	-0.026513	-2.2731	14.962E-6
17.00000	43.00000	13.00000	0.21811	12.566	-0.025447	-2.2322	14.710E-6
18.00000	43.00000	13.00000	0.21968	12.566	-0.024270	-2.1867	14.419E-6
19.00000	43.00000	13.00000	0.22131	12.566	-0.023004	-2.1352	14.093E-6
20.00000	43.00000	13.00000	0.22300	12.566	-0.021672	-2.0792	13.738E-6
21.00000	43.00000	13.00000	0.22471	12.566	-0.020300	-2.0192	13.357E-6
22.00000	43.00000	13.00000	0.22644	12.566	-0.018894	-1.9563	12.956E-6
23.00000	43.00000	13.00000	0.22816	12.566	-0.017525	-1.8906	12.537E-6
24.00000	43.00000	13.00000	0.22985	12.566	-0.016166	-1.8233	12.106E-6
25.00000	43.00000	13.00000	0.23151	12.566	-0.014850	-1.7549	11.666E-6
26.00000	43.00000	13.00000	0.23312	12.566	-0.013590	-1.6859	11.221E-6
27.00000	43.00000	13.00000	0.23466	12.566	-0.012398	-1.6169	10.774E-6
28.00000	43.00000	13.00000	0.23612	12.566	-0.011279	-1.5481	10.328E-6
29.00000	43.00000	13.00000	0.23747	12.566	-0.010239	-1.4801	9.8858E-6
30.00000	43.00000	13.00000	0.23870	12.566	-0.0092777	-1.4131	9.4490E-6
31.00000	43.00000	13.00000	0.23978	12.566	-0.0083952	-1.3475	9.0196E-6
32.00000	43.00000	13.00000	0.24068	12.566	-0.0075880	-1.2828	8.5948E-6
33.00000	43.00000	13.00000	0.24136	12.566	-0.0068553	-1.2212	8.1896E-6
34.00000	43.00000	13.00000	0.24180	12.566	-0.0061902	-1.1609	7.7914E-6
35.00000	43.00000	13.00000	0.24197	12.566	-0.0055887	-1.1025	7.4058E-6
36.00000	43.00000	13.00000	0.24182	12.566	-0.0050460	-1.0463	7.0336E-6
37.00000	43.00000	13.00000	0.24133	12.566	-0.0045752	-0.99235	6.6755E-6
38.00000	43.00000	13.00000	0.24048	12.566	-0.0041173	-0.94065	6.3318E-6
39.00000	43.00000	13.00000	0.23925	12.566	-0.0037220	-0.89124	6.0029E-6
40.00000	43.00000	13.00000	0.23764	12.566	-0.0033669	-0.84415	5.6889E-6
41.00000	43.00000	13.00000	0.23564	12.566	-0.0030479	-0.79936	5.3900E-6
42.00000	43.00000	13.00000	0.23325	12.566	-0.0027615	-0.75685	5.1058E-6
43.00000	43.00000	13.00000	0.23050	12.566	-0.0025043	-0.71655	4.8362E-6
44.00000	43.00000	13.00000	0.22739	12.566	-0.0022732	-0.67843	4.5810E-6
45.00000	43.00000	13.00000	0.22396	12.566	-0.0020655	-0.64241	4.3395E-6
46.00000	43.00000	13.00000	0.22023	12.566	-0.0018788	-0.60841	4.1114E-6
47.00000	43.00000	13.00000	0.21624	12.566	-0.0017108	-0.57635	3.8962E-6
48.00000	43.00000	13.00000	0.21201	12.566	-0.0015594	-0.54614	3.6932E-6
49.00000	43.00000	13.00000	0.20758	12.566	-0.0014230	-0.51768	3.5019E-6
50.00000	43.00000	13.00000	0.20299	12.566	-0.0013000	-0.49090	3.3218E-6
51.00000	43.00000	13.00000	0.19826	12.566	-0.0011890	-0.46569	3.1521E-6
52.00000	43.00000	13.00000	0.19343	12.566	-0.0010885	-0.44193	2.9924E-6
53.00000	43.00000	13.00000	0.18852	12.566	-997.76E-6	-0.41966	2.8420E-6
54.00000	43.00000	13.00000	0.18357	12.566	-915.51E-6	-0.39866	2.7005E-6
55.00000	43.00000	13.00000	0.17859	12.566	-840.96E-6	-0.37890	2.5672E-6
-25.00000	44.00000	13.00000	0.15584	12.566	-0.0018782	-0.49120	3.3120E-6
-24.00000	44.00000	13.00000	0.16023	12.566	-0.0020606	-0.51751	3.4877E-6
-23.00000	44.00000	13.00000	0.16464	12.566	-0.0022628	-0.54545	3.6741E-6
-22.00000	44.00000	13.00000	0.16905	12.566	-0.0024870	-0.57510	3.8718E-6
-21.00000	44.00000	13.00000	0.17344	12.566	-0.0027356	-0.60657	4.0813E-6
-20.00000	44.00000	13.00000	0.17780	12.566	-0.0030112	-0.63995	4.3034E-6
-19.00000	44.00000	13.00000	0.18209	12.566	-0.0033160	-0.67539	4.5385E-6
-18.00000	44.00000	13.00000	0.18631	12.566	-0.0036554	-0.71283	4.7873E-6
-17.00000	44.00000	13.00000	0.19041	12.566	-0.0040303	-0.75251	5.0503E-6
-16.00000	44.00000	13.00000	0.19439	12.566	-0.0044451	-0.79445	5.3279E-6
-15.00000	44.00000	13.00000	0.19820	12.566	-0.0049031	-0.83872	5.6205E-6
-14.00000	44.00000	13.00000	0.20183	12.566	-0.0054081	-0.88537	5.9283E-6
-13.00000	44.00000	13.00000	0.20524	12.566	-0.0059634	-0.93443	6.2516E-6
-12.00000	44.00000	13.00000	0.20841	12.566	-0.0065723	-0.98589	6.5901E-6
-11.00000	44.00000	13.00000	0.21132	12.566	-0.0072374	-1.0397	6.9437E-6
-10.00000	44.00000	13.00000	0.21395	12.566	-0.0079607	-1.0958	7.3117E-6
-9.00000	44.00000	13.00000	0.21628	12.566	-0.0087438	-1.1548	7.6932E-6
-8.00000	44.00000	13.00000	0.21831	12.566	-0.0095849	-1.2144	8.0871E-6
-7.00000	44.00000	13.00000	0.22002	12.566	-0.010484	-1.2764	8.4917E-6
-6.00000	44.00000	13.00000	0.22142	12.566	-0.011435	-1.3398	8.9049E-6
-5.00000	44.00000	13.00000	0.22252	12.566	-0.012435	-1.4043	9.3242E-6
-4.00000	44.00000	13.00000	0.22333	12.566	-0.013472	-1.4694	9.7469E-6
-3.00000	44.00000	13.00000	0.22389	12.566	-0.014538	-1.5345	10.169E-6
-2.00000	44.00000	13.00000	0.22422	12.566	-0.015619	-1.5992	10.588E-6
-1.00000	44.00000	13.00000	0.22437	12.566	-0.016700	-1.6627	10.999E-6
0.00000	44.00000	13.00000	0.22436	12.566	-0.017764	-1.7244	11.398E-6
1.00000	44.00000	13.00000	0.22426	12.566	-0.018795	-1.7836	11.781E-6
2.00000	44.00000	13.00000	0.22410	12.566	-0.019771	-1.8396	12.143E-6
3.00000	44.00000	13.00000	0.22393	12.566	-0.020680	-1.8918	12.481E-6
4.00000	44.00000	13.00000	0.22378	12.566	-0.021503	-1.9395	12.789E-6
5.00000	44.00000						



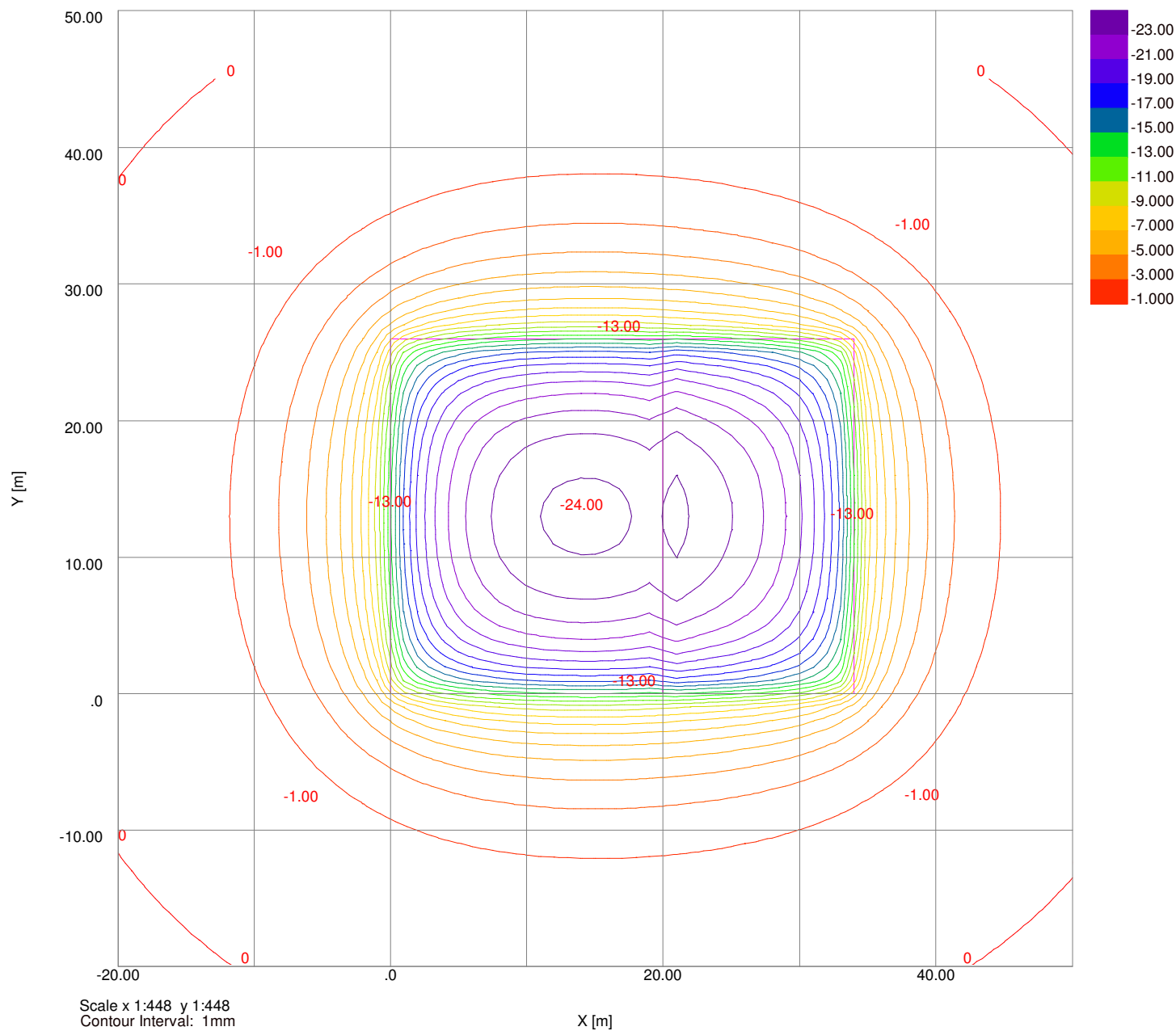
Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Short Term Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	21.00000	44.00000	13.00000	0.23705	12.566	-0.016778	-1.8178
	22.00000	44.00000	13.00000	0.23824	12.566	-0.015702	-1.7643
	23.00000	44.00000	13.00000	0.23937	12.566	-0.014626	-1.7086
	24.00000	44.00000	13.00000	0.24043	12.566	-0.013564	-1.6512
	25.00000	44.00000	13.00000	0.24140	12.566	-0.012529	-1.5926
	26.00000	44.00000	13.00000	0.24228	12.566	-0.011532	-1.5333
	27.00000	44.00000	13.00000	0.24305	12.566	-0.010581	-1.4737
	28.00000	44.00000	13.00000	0.24371	12.566	-0.009625	-1.4142
	29.00000	44.00000	13.00000	0.24423	12.566	-0.008840	-1.3551
	30.00000	44.00000	13.00000	0.24459	12.566	-0.008056	-1.2968
	31.00000	44.00000	13.00000	0.24479	12.566	-0.007330	-1.2394
	32.00000	44.00000	13.00000	0.24480	12.566	-0.006626	-1.1832
	33.00000	44.00000	13.00000	0.24460	12.566	-0.006050	-1.1284
	34.00000	44.00000	13.00000	0.24416	12.566	-0.005491	-1.0751
	35.00000	44.00000	13.00000	0.24347	12.566	-0.004981	-1.0234
	36.00000	44.00000	13.00000	0.24250	12.566	-0.004519	-0.9735
	37.00000	44.00000	13.00000	0.24123	12.566	-0.004099	-0.9254
	38.00000	44.00000	13.00000	0.23966	12.566	-0.003719	-0.8792
	39.00000	44.00000	13.00000	0.23777	12.566	-0.003376	-0.8349
	40.00000	44.00000	13.00000	0.23556	12.566	-0.003065	-0.7926
	41.00000	44.00000	13.00000	0.23304	12.566	-0.002785	-0.7522
	42.00000	44.00000	13.00000	0.23020	12.566	-0.002532	-0.7137
	43.00000	44.00000	13.00000	0.22706	12.566	-0.002304	-0.6771
	44.00000	44.00000	13.00000	0.22364	12.566	-0.002098	-0.6424
	45.00000	44.00000	13.00000	0.21995	12.566	-0.001912	-0.6095
	46.00000	44.00000	13.00000	0.21603	12.566	-0.001744	-0.5783
	47.00000	44.00000	13.00000	0.21190	12.566	-0.001593	-0.5489
	48.00000	44.00000	13.00000	0.20758	12.566	-0.001456	-0.5210
	49.00000	44.00000	13.00000	0.20311	12.566	-0.001331	-0.4947
	50.00000	44.00000	13.00000	0.19851	12.566	-0.001219	-0.4699
	51.00000	44.00000	13.00000	0.19380	12.566	-0.001117	-0.4464
	52.00000	44.00000	13.00000	0.18902	12.566	-0.001025	-0.4243
	53.00000	44.00000	13.00000	0.18420	12.566	-942.05E-6	-0.4035
	54.00000	44.00000	13.00000	0.17934	12.566	-866.06E-6	-0.3838
	55.00000	44.00000	13.00000	0.17447	12.566	-797.00E-6	-0.3630
	-25.00000	45.00000	13.00000	0.15244	12.566	-0.001740	-0.4705
	-24.00000	45.00000	13.00000	0.15673	12.566	-0.001904	-0.4949
	-23.00000	45.00000	13.00000	0.16104	12.566	-0.002085	-0.5208
	-22.00000	45.00000	13.00000	0.16536	12.566	-0.002284	-0.5482
	-21.00000	45.00000	13.00000	0.16968	12.566	-0.002504	-0.5772
	-20.00000	45.00000	13.00000	0.17398	12.566	-0.002746	-0.6078
	-19.00000	45.00000	13.00000	0.17824	12.566	-0.003014	-0.6407
	-18.00000	45.00000	13.00000	0.18243	12.566	-0.003303	-0.6747
	-17.00000	45.00000	13.00000	0.18655	12.566	-0.003633	-0.7104
	-16.00000	45.00000	13.00000	0.19057	12.566	-0.003990	-0.7485
	-15.00000	45.00000	13.00000	0.19446	12.566	-0.004382	-0.7844
	-14.00000	45.00000	13.00000	0.19820	12.566	-0.004811	-0.8304
	-13.00000	45.00000	13.00000	0.20178	12.566	-0.005280	-0.8743
	-12.00000	45.00000	13.00000	0.20516	12.566	-0.005790	-0.9201
	-11.00000	45.00000	13.00000	0.20834	12.566	-0.006344	-0.9679
	-10.00000	45.00000	13.00000	0.21130	12.566	-0.006941	-1.0192
	-9.00000	45.00000	13.00000	0.21401	12.566	-0.007583	-1.0689
	-8.00000	45.00000	13.00000	0.21648	12.566	-0.008269	-1.1217
	-7.00000	45.00000	13.00000	0.21869	12.566	-0.008957	-1.1758
	-6.00000	45.00000	13.00000	0.22066	12.566	-0.009703	-1.2309
	-5.00000	45.00000	13.00000	0.22238	12.566	-0.010559	-1.2867
	-4.00000	45.00000	13.00000	0.22386	12.566	-0.011381	-1.3428
	-3.00000	45.00000	13.00000	0.22513	12.566	-0.012222	-1.3988
	-2.00000	45.00000	13.00000	0.22621	12.566	-0.013070	-1.4541
	-1.00000	45.00000	13.00000	0.22712	12.566	-0.013915	-1.5084
	0.00000	45.00000	13.00000	0.22790	12.566	-0.014744	-1.5600
	1.00000	45.00000	13.00000	0.22856	12.566	-0.015544	-1.6113
	2.00000	45.00000	13.00000	0.22916	12.566	-0.016302	-1.6589
	3.00000	45.00000	13.00000	0.22971	12.566	-0.017005	-1.7031
	4.00000	45.00000	13.00000	0.23025	12.566	-0.017641	-1.7436
	5.00000	45.00000	13.00000	0.23080	12.566	-0.018200	-1.7797
	6.00000	45.00000	13.00000	0.23138	12.566	-0.018671	-1.8111
	7.00000	45.00000	13.00000	0.23201	12.566	-0.019046	-1.8375
	8.00000	45.00000	13.00000	0.23270	12.566	-0.019320	-1.8585
	9.00000	45.00000	13.00000	0.23346	12.566	-0.019487	-1.8740
	10.00000	45.00000	13.00000	0.23429	12.566	-0.019549	-1.8893
	11.00000	45.00000	13.00000	0.23518	12.566	-0.019493	-1.8876
	12.00000	45.00000	13.00000	0.23612	12.566	-0.019332	-1.8858
	13.00000	45.00000	13.00000	0.23712	12.566	-0.019064	-1.8782
	14.00000	45.00000	13.00000	0.23815	12.566	-0.018695	-1.8651
	15.00000	45.00000	13.00000	0.23920	12.566	-0.018230	-1.8466
	16.00000	45.00000	13.00000	0.24025	12.566	-0.017678	-1.8231
	17.00000	45.00000	13.00000	0.24129	12.566	-0.017047	-1.7949
	18.00000	45.00000	13.00000	0.24231	12.566	-0.016349	-1.7623
	19.00000	45.00000	13.00000	0.24328	12.566	-0.015597	-1.7257
	20.00000	45.00000	13.00000	0.24419	12.566	-0.014802	-1.6857
	21.00000	45.00000	13.00000	0.24503	12.566	-0.013977	-1.6427
	22.00000	45.00000	13.00000	0.24578	12.566	-0.013137	-1.5972
	23.00000	45.00000	13.00000	0.24644	12.566	-0.012292	-1.5496
	24.00000	45.00000	13.00000	0.24699	12.566	-0.011454	-1.5003
	25.00000	45.00000	13.00000	0.24743	12.566	-0.010633	-1.4499
	26.00000	45.00000	13.00000	0.24774	12.566	-0.009837	-1.3987
	27.00000	45.00000	13.00000	0.24791	12.566	-0.009073	-1.3471
	28.00000	45.00000	13.00000	0.24794	12.566	-0.008347	-1.2954
	29.00000	45.00000	13.00000	0.24781	12.566	-0.007661	-1.2439
	30.00000	45.00000	13.00000	0.24752	12.566	-0.007018	-1.1928
	31.00000	45.00000	13.00000	0.24704	12.566	-0.006419	-1.1425
	32.00000	45.00000	13.00000	0.24638	12.566	-0.005863	-1.0931
	33.00000	45.00000	13.00000	0.24550	12.566	-0.005350	-1.0447
	34.00000	45.00000	13.00000	0.24440	12.566	-0.004879	-0.9974
	35.00000	45.00000	13.00000	0.24307	12.566	-0.004468	-0.9516
	36.00000	45.00000	13.00000	0.24149	12.566	-0.004051	-0.9079
	37.00000	45.00000	13.00000	0.23965	12.566	-0.003691	-0.8642
	38.00000	45.00000	13.00000	0.23754	12.566	-0.003362	-0.8228
	39.00000	45.00000	13.00000	0.23517	12.566	-0.003064	-0.7831
	40.00000	45.00000	13.00000	0.23252	12.566	-0.002792	-0.7449
	41.00000	45.00000	13.00000	0.22962	12.566	-0.002546	-0.7084
	42.00000	45.00000	13.00000	0.22645	12.566	-0.002323	-0.6735
	43.00000	45.00000	13.00000	0.22304	12.566	-0.002120	-0.6403
	44.00000	45.00000	13.00000	0.21940	12.566	-0.001937	-0.6088
	45.00000	45.00000	13.00000	0.21555	12.566	-0.001770	-0.5785
	46.00000	45.00000	13.00000	0.21152	12.566	-0.001619	-0.5500
	47.00000	45.00000	13.00000	0.20731	12.566	-0.001483	-0.5229
	48.00000	45.00000	13.00000	0.20295	12.566	-0.001358	-0.4972
	49.00000	45.00000	13.00000	0.19848	12.566	-0.001246	-0.4728
	50.00000	45.00000	13.00000	0.19390	12.566	-0.001143	-0.4493
	51.00000	45.00000	13.00000	0.18926	12.566	-0.001050	-0.4280
	52.00000	45.00000	13.00000	0.18455	12.566	-965.90E-6	-0.4074
	53.00000	45.00000	13.00000	0.17982	12.566	-888.88E-6	-0.3879
	54.00000	45.00000	13.00000	0.17507	12.566	-818.75E-6	-0.3695
	55.00000	45.00000	13.00000	0.17033	12.566	-754.83E-6	-0.3521

Settlement Contours : Grid 1 at 19.5000m



Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Analysis Options

Analysis: Boussinesq
Global Poisson's ratio: 0.20
Maximum allowable ratio between values of E: 1.5
Horizontal rigid boundary level: -10.50 [m OD]
Displacements at area centroids calculated.

Soil ProfilesSoil Profile 1

Layer	Level at top	Number of intermediate displacement levels	Youngs Modulus	Poissons ratio	Non-linear curve
	[mOD]		Top [kN/m²]	Btm [kN/m²]	
1	19.500	2	2500.0	2500.0	0.20000 None
2	17.000	3	6000.0	8000.0	0.20000 None
3	14.000	13	42000.0	60000.0	0.20000 None
4	1.0000	11	90000.0	108000.0	0.20000 None

Soil Zones

Zone	Name	X coordinates min max	Y coordinates min max	Profile
1	Soil Zone 1	-25.00000 55.00000	-20.00000 45.00000	Soil Profile 1

Load Data

Load ref.	Name	Shape	Orientation of Plane	Centre of load (Global) X Y Z	Load position Angle of local x from	Width x or Radius	Length y	Polygon Coordinates	Rectangle of tolerance	Number of rectangles	Normal (local z)	Load value Tangential (local x) (local y)
				[m]	[Degrees]	[m]	[m]	[m]	[m]	[m]	[kN/m²]	[kN/m²] [kN/m²]
1	Load 1	Rectangular	Horizontal	10.00000 13.00000 13.00000	0.0	20.000	26.000	N/A		1	-90.000	0.0 0.0
2	Load 2	Rectangular	Horizontal	27.00000 13.00000 13.00000	0.0	14.000	26.000	N/A		1	-90.000	0.0 0.0

Displacement Data

Ref.	Type	Name	Direction of Extrusion	First point X Y Z	Line/Line for extrusion Second point X Y Z	No. of intrvl across extrusion/line	Extrusion Depth	No. of intrvl along extrusion	Calculate	Show Detailed results
				[m]	[m]		[m]			
1	Grid	Grid 1	Global X	-25.00000 -20.00000 19.50000	N/A 45.00000 19.50000	65	80.00000	80	Yes	No
2	Grid	Grid 2	Global X	-25.00000 -20.00000 15.00000	N/A 45.00000 15.00000	65	80.00000	80	Yes	No
3	Grid	Grid 3	Global X	-25.00000 -20.00000 13.00000	N/A 45.00000 13.00000	65	80.00000	80	Yes	No

RESULTS FOR GRIDS

Analysis: Boussinesq
Global Poisson's ratio: 0.20
Horizontal rigid boundary level: -10.50 [m OD]

The maximum displacement difference between the Boussinesq method (-22.201mm) and the Mindlin method (-14.826mm) occurs at point X = 27.00000m, Y = 13.00000m, level = 19.500mOD, and is 7.3746mm.

Name	Location X Y	Displacement Z [level] Z	Stresses Calc Level Vert Stress Sum Princ	Vert Strain
	[m]	[mm]	[mOD] [kN/m²] [kN/m²]	[-]
Load 1	-10.00000	-23.00000	-23.999	-876.00E-6
Load 2	27.00000	13.00000	-22.035	-0.0014796
Grid 1	-25.00000	-20.00000	0.046378	0.0
	-24.00000	-20.00000	0.045265	0.0
	-23.00000	-20.00000	0.043883	0.0
	-22.00000	-20.00000	0.042206	0.0
	-21.00000	-20.00000	0.040206	0.0
	-20.00000	-20.00000	0.037857	0.0
	-19.00000	-20.00000	0.035131	0.0
	-18.00000	-20.00000	0.031999	0.0
	-17.00000	-20.00000	0.028434	0.0
	-16.00000	-20.00000	0.024411	0.0
	-15.00000	-20.00000	0.019906	0.0
	-14.00000	-20.00000	0.014898	0.0
	-13.00000	-20.00000	0.0093700	0.0
	-12.00000	-20.00000	0.0033116	0.0
	-11.00000	-20.00000	-0.0032828	0.0
	-10.00000	-20.00000	-0.010411	0.0
	-9.00000	-20.00000	-0.018062	0.0
	-8.00000	-20.00000	-0.026215	0.0
	-7.00000	-20.00000	-0.034839	0.0
	-6.00000	-20.00000	-0.043893	0.0
	-5.00000	-20.00000	-0.053322	0.0
	-4.00000	-20.00000	-0.063063	0.0
	-3.00000	-20.00000	-0.073040	0.0
	-2.00000	-20.00000	-0.083171	0.0
	-1.00000	-20.00000	-0.093362	0.0
	0.00000	-20.00000	-0.10352	0.0
	1.00000	-20.00000	-0.11354	0.0
	2.00000	-20.00000	-0.12332	0.0
	3.00000	-20.00000	-0.13277	0.0
	4.00000	-20.00000	-0.14178	0.0
	5.00000	-20.00000	-0.15028	0.0
	6.00000	-20.00000	-0.15817	0.0
	7.00000	-20.00000	-0.16540	0.0
	8.00000	-20.00000	-0.17188	0.0
	9.00000	-20.00000	-0.17759	0.0
	10.00000	-20.00000	-0.18247	0.0
	11.00000	-20.00000	-0.18649	0.0
	12.00000	-20.00000	-0.18964	0.0
	13.00000	-20.00000	-0.19190	0.0
	14.00000	-20.00000	-0.19328	0.0
	15.00000	-20.00000	-0.19376	0.0
	16.00000	-20.00000	-0.19337	0.0
	17.00000	-20.00000	-0.19212	0.0
	18.00000	-20.00000	-0.19003	0.0
	19.00000	-20.00000	-0.18711	0.0
	20.00000	-20.00000	-0.18341	0.0
	21.00000	-20.00000	-0.17895	0.0
	22.00000	-20.00000	-0.17377	0.0
	23.00000	-20.00000	-0.16789	0.0
	24.00000	-20.00000	-0.16137	0.0
	25.00000	-20.00000	-0.15425	0.0
	26.00000	-20.00000	-0.14658	0.0
	27.00000	-20.00000	-0.13841	0.0
	28.00000	-20.00000	-0.12980	0.0
	29.00000	-20.00000	-0.12081	0.0
	30.00000	-20.00000	-0.11151	0.0
	31.00000	-20.00000	-0.10198	0.0
	32.00000	-20.00000	-0.092286	0.0
	33.00000	-20.00000	-0.082512	0.0
	34.00000	-20.00000	-0.072736	0.0
	35.00000	-20.00000	-0.063035	0.0
	36.00000	-20.00000	-0.053487	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
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Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
37.00000	-20.00000	19.50000	-0.044162	19.083	0.0	0.0	0.0
38.00000	-20.00000	19.50000	-0.035128	19.083	0.0	0.0	0.0
39.00000	-20.00000	19.50000	-0.026443	19.083	0.0	0.0	0.0
40.00000	-20.00000	19.50000	-0.018159	19.083	0.0	0.0	0.0
41.00000	-20.00000	19.50000	-0.010316	19.083	0.0	0.0	0.0
42.00000	-20.00000	19.50000	-0.0029478	19.083	0.0	0.0	0.0
43.00000	-20.00000	19.50000	0.0039231	19.083	0.0	0.0	0.0
44.00000	-20.00000	19.50000	0.010282	19.083	0.0	0.0	0.0
45.00000	-20.00000	19.50000	0.016124	19.083	0.0	0.0	0.0
46.00000	-20.00000	19.50000	0.021449	19.083	0.0	0.0	0.0
47.00000	-20.00000	19.50000	0.026266	19.083	0.0	0.0	0.0
48.00000	-20.00000	19.50000	0.030589	19.083	0.0	0.0	0.0
49.00000	-20.00000	19.50000	0.034436	19.083	0.0	0.0	0.0
50.00000	-20.00000	19.50000	0.037828	19.083	0.0	0.0	0.0
51.00000	-20.00000	19.50000	0.040790	19.083	0.0	0.0	0.0
52.00000	-20.00000	19.50000	0.043347	19.083	0.0	0.0	0.0
53.00000	-20.00000	19.50000	0.045528	19.083	0.0	0.0	0.0
54.00000	-20.00000	19.50000	0.047360	19.083	0.0	0.0	0.0
55.00000	-20.00000	19.50000	0.048870	19.083	0.0	0.0	0.0
-25.00000	-19.00000	19.50000	0.045372	19.083	0.0	0.0	0.0
-24.00000	-19.00000	19.50000	0.043985	19.083	0.0	0.0	0.0
-23.00000	-19.00000	19.50000	0.042288	19.083	0.0	0.0	0.0
-22.00000	-19.00000	19.50000	0.040249	19.083	0.0	0.0	0.0
-21.00000	-19.00000	19.50000	0.037837	19.083	0.0	0.0	0.0
-20.00000	-19.00000	19.50000	0.035016	19.083	0.0	0.0	0.0
-19.00000	-19.00000	19.50000	0.031754	19.083	0.0	0.0	0.0
-18.00000	-19.00000	19.50000	0.028016	19.083	0.0	0.0	0.0
-17.00000	-19.00000	19.50000	0.023768	19.083	0.0	0.0	0.0
-16.00000	-19.00000	19.50000	0.018977	19.083	0.0	0.0	0.0
-15.00000	-19.00000	19.50000	0.013612	19.083	0.0	0.0	0.0
-14.00000	-19.00000	19.50000	0.0076456	19.083	0.0	0.0	0.0
-13.00000	-19.00000	19.50000	0.0010555	19.083	0.0	0.0	0.0
-12.00000	-19.00000	19.50000	-0.0061754	19.083	0.0	0.0	0.0
-11.00000	-19.00000	19.50000	-0.014057	19.083	0.0	0.0	0.0
-10.00000	-19.00000	19.50000	-0.022589	19.083	0.0	0.0	0.0
-9.00000	-19.00000	19.50000	-0.031763	19.083	0.0	0.0	0.0
-8.00000	-19.00000	19.50000	-0.041556	19.083	0.0	0.0	0.0
-7.00000	-19.00000	19.50000	-0.051933	19.083	0.0	0.0	0.0
-6.00000	-19.00000	19.50000	-0.062845	19.083	0.0	0.0	0.0
-5.00000	-19.00000	19.50000	-0.074230	19.083	0.0	0.0	0.0
-4.00000	-19.00000	19.50000	-0.086009	19.083	0.0	0.0	0.0
-3.00000	-19.00000	19.50000	-0.098091	19.083	0.0	0.0	0.0
-2.00000	-19.00000	19.50000	-0.11037	19.083	0.0	0.0	0.0
-1.00000	-19.00000	19.50000	-0.12274	19.083	0.0	0.0	0.0
0.00000	-19.00000	19.50000	-0.13508	19.083	0.0	0.0	0.0
1.00000	-19.00000	19.50000	-0.14725	19.083	0.0	0.0	0.0
2.00000	-19.00000	19.50000	-0.15914	19.083	0.0	0.0	0.0
3.00000	-19.00000	19.50000	-0.17063	19.083	0.0	0.0	0.0
4.00000	-19.00000	19.50000	-0.18158	19.083	0.0	0.0	0.0
5.00000	-19.00000	19.50000	-0.19190	19.083	0.0	0.0	0.0
6.00000	-19.00000	19.50000	-0.20149	19.083	0.0	0.0	0.0
7.00000	-19.00000	19.50000	-0.21026	19.083	0.0	0.0	0.0
8.00000	-19.00000	19.50000	-0.21813	19.083	0.0	0.0	0.0
9.00000	-19.00000	19.50000	-0.22504	19.083	0.0	0.0	0.0
10.00000	-19.00000	19.50000	-0.23096	19.083	0.0	0.0	0.0
11.00000	-19.00000	19.50000	-0.23584	19.083	0.0	0.0	0.0
12.00000	-19.00000	19.50000	-0.23966	19.083	0.0	0.0	0.0
13.00000	-19.00000	19.50000	-0.24241	19.083	0.0	0.0	0.0
14.00000	-19.00000	19.50000	-0.24409	19.083	0.0	0.0	0.0
15.00000	-19.00000	19.50000	-0.24471	19.083	0.0	0.0	0.0
16.00000	-19.00000	19.50000	-0.24427	19.083	0.0	0.0	0.0
17.00000	-19.00000	19.50000	-0.24280	19.083	0.0	0.0	0.0
18.00000	-19.00000	19.50000	-0.24033	19.083	0.0	0.0	0.0
19.00000	-19.00000	19.50000	-0.23687	19.083	0.0	0.0	0.0
20.00000	-19.00000	19.50000	-0.23247	19.083	0.0	0.0	0.0
21.00000	-19.00000	19.50000	-0.22716	19.083	0.0	0.0	0.0
22.00000	-19.00000	19.50000	-0.22098	19.083	0.0	0.0	0.0
23.00000	-19.00000	19.50000	-0.21396	19.083	0.0	0.0	0.0
24.00000	-19.00000	19.50000	-0.20617	19.083	0.0	0.0	0.0
25.00000	-19.00000	19.50000	-0.19765	19.083	0.0	0.0	0.0
26.00000	-19.00000	19.50000	-0.18845	19.083	0.0	0.0	0.0
27.00000	-19.00000	19.50000	-0.17865	19.083	0.0	0.0	0.0
28.00000	-19.00000	19.50000	-0.16830	19.083	0.0	0.0	0.0
29.00000	-19.00000	19.50000	-0.15748	19.083	0.0	0.0	0.0
30.00000	-19.00000	19.50000	-0.14628	19.083	0.0	0.0	0.0
31.00000	-19.00000	19.50000	-0.13479	19.083	0.0	0.0	0.0
32.00000	-19.00000	19.50000	-0.12308	19.083	0.0	0.0	0.0
33.00000	-19.00000	19.50000	-0.11127	19.083	0.0	0.0	0.0
34.00000	-19.00000	19.50000	-0.099450	19.083	0.0	0.0	0.0
35.00000	-19.00000	19.50000	-0.087717	19.083	0.0	0.0	0.0
36.00000	-19.00000	19.50000	-0.076166	19.083	0.0	0.0	0.0
37.00000	-19.00000	19.50000	-0.064887	19.083	0.0	0.0	0.0
38.00000	-19.00000	19.50000	-0.053964	19.083	0.0	0.0	0.0
39.00000	-19.00000	19.50000	-0.043468	19.083	0.0	0.0	0.0
40.00000	-19.00000	19.50000	-0.033463	19.083	0.0	0.0	0.0
41.00000	-19.00000	19.50000	-0.024000	19.083	0.0	0.0	0.0
42.00000	-19.00000	19.50000	-0.015116	19.083	0.0	0.0	0.0
43.00000	-19.00000	19.50000	-0.0068387	19.083	0.0	0.0	0.0
44.00000	-19.00000	19.50000	815.82E-6	19.083	0.0	0.0	0.0
45.00000	-19.00000	19.50000	0.0078427	19.083	0.0	0.0	0.0
46.00000	-19.00000	19.50000	0.014246	19.083	0.0	0.0	0.0
47.00000	-19.00000	19.50000	0.020038	19.083	0.0	0.0	0.0
48.00000	-19.00000	19.50000	0.025238	19.083	0.0	0.0	0.0
49.00000	-19.00000	19.50000	0.029868	19.083	0.0	0.0	0.0
50.00000	-19.00000	19.50000	0.033958	19.083	0.0	0.0	0.0
51.00000	-19.00000	19.50000	0.037539	19.083	0.0	0.0	0.0
52.00000	-19.00000	19.50000	0.040643	19.083	0.0	0.0	0.0
53.00000	-19.00000	19.50000	0.043303	19.083	0.0	0.0	0.0
54.00000	-19.00000	19.50000	0.045554	19.083	0.0	0.0	0.0
55.00000	-19.00000	19.50000	0.047430	19.083	0.0	0.0	0.0
-25.00000	-18.00000	19.50000	0.044180	19.083	0.0	0.0	0.0
-24.00000	-18.00000	19.50000	0.042488	19.083	0.0	0.0	0.0
-23.00000	-18.00000	19.50000	0.040438	19.083	0.0	0.0	0.0
-22.00000	-18.00000	19.50000	0.037994	19.083	0.0	0.0	0.0
-21.00000	-18.00000	19.50000	0.035116	19.083	0.0	0.0	0.0
-20.00000	-18.00000	19.50000	0.031764	19.083	0.0	0.0	0.0
-19.00000	-18.00000	19.50000	0.027896	19.083	0.0	0.0	0.0
-18.00000	-18.00000	19.50000	0.023469	19.083	0.0	0.0	0.0
-17.00000	-18.00000	19.50000	0.018441	19.083	0.0	0.0	0.0
-16.00000	-18.00000	19.50000	0.012771	19.083	0.0	0.0	0.0
-15.00000	-18.00000	19.50000	0.0064278	19.083	0.0	0.0	0.0
-14.00000	-18.00000	19.50000	-653.69E-6	19.083	0.0	0.0	0.0
-13.00000	-18.00000	19.50000	-0.0084750	19.083	0.0	0.0	0.0
-12.00000	-18.00000	19.50000	-0.017071	19.083	0.0	0.0	0.0
-11.00000	-18.00000	19.50000	-0.026456	19.083	0.0	0.0	0.0
-10.00000	-18.00000	19.50000	-0.036377	19.083	0.0	0.0	0.0
-9.00000	-18.00000	19.50000	-0.047606	19.083	0.0	0.0	0.0
-8.00000	-18.00000	19.50000	-0.059341	19.083	0.0	0.0	0.0
-7.00000	-18.00000	19.50000	-0.071803	19.083	0.0	0.0	0.0
-6.00000	-18.00000	19.50000	-0.084935	19.083	0.0	0.0	0.0
-5.00000	-18.00000	19.50000	-0.098663	19.083	0.0	0.0	0.0
-4.00000	-18.00000	19.50000	-0.11289	19.083	0.0	0.0	0.0
-3.00000	-18.00000	19.50000	-0.12751	19.083	0.0	0.0	0.0
-2.00000	-18.00000	19.50000	-0.14239	19.083	0.0	0.0	0.0
-1.00000	-18.00000	19.50000	-0.15740	19.083	0.0	0.0	0.0
0.00000	-18.00000	19.50000	-0.17237	19.083	0.0	0.0	0.0
1.00000	-18.00000	19.50000	-0.18716	19.083	0.0	0.0	0.0
2.00000	-18.00000	19.50000	-0.20161	19.083	0.0	0.0	0.0
3.00000	-18.00000	19.50000	-0.21557	19.083	0.0	0.0	0.0
4.00000	-18.00000	19.50000	-0.22887	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	5.00000	-18.00000	19.50000	-0.24141	19.083	0.0	0.0
	6.00000	-18.00000	19.50000	-0.25304	19.083	0.0	0.0
	7.00000	-18.00000	19.50000	-0.26367	19.083	0.0	0.0
	8.00000	-18.00000	19.50000	-0.27320	19.083	0.0	0.0
	9.00000	-18.00000	19.50000	-0.28158	19.083	0.0	0.0
	10.00000	-18.00000	19.50000	-0.28873	19.083	0.0	0.0
	11.00000	-18.00000	19.50000	-0.29463	19.083	0.0	0.0
	12.00000	-18.00000	19.50000	-0.29926	19.083	0.0	0.0
	13.00000	-18.00000	19.50000	-0.30259	19.083	0.0	0.0
	14.00000	-18.00000	19.50000	-0.30464	19.083	0.0	0.0
	15.00000	-18.00000	19.50000	-0.30541	19.083	0.0	0.0
	16.00000	-18.00000	19.50000	-0.30492	19.083	0.0	0.0
	17.00000	-18.00000	19.50000	-0.30319	19.083	0.0	0.0
	18.00000	-18.00000	19.50000	-0.30027	19.083	0.0	0.0
	19.00000	-18.00000	19.50000	-0.29617	19.083	0.0	0.0
	20.00000	-18.00000	19.50000	-0.29093	19.083	0.0	0.0
	21.00000	-18.00000	19.50000	-0.28461	19.083	0.0	0.0
	22.00000	-18.00000	19.50000	-0.27725	19.083	0.0	0.0
	23.00000	-18.00000	19.50000	-0.26888	19.083	0.0	0.0
	24.00000	-18.00000	19.50000	-0.25958	19.083	0.0	0.0
	25.00000	-18.00000	19.50000	-0.24938	19.083	0.0	0.0
	26.00000	-18.00000	19.50000	-0.23837	19.083	0.0	0.0
	27.00000	-18.00000	19.50000	-0.22661	19.083	0.0	0.0
	28.00000	-18.00000	19.50000	-0.21418	19.083	0.0	0.0
	29.00000	-18.00000	19.50000	-0.20117	19.083	0.0	0.0
	30.00000	-18.00000	19.50000	-0.18768	19.083	0.0	0.0
	31.00000	-18.00000	19.50000	-0.17382	19.083	0.0	0.0
	32.00000	-18.00000	19.50000	-0.15969	19.083	0.0	0.0
	33.00000	-18.00000	19.50000	-0.14542	19.083	0.0	0.0
	34.00000	-18.00000	19.50000	-0.13113	19.083	0.0	0.0
	35.00000	-18.00000	19.50000	-0.11694	19.083	0.0	0.0
	36.00000	-18.00000	19.50000	-0.10297	19.083	0.0	0.0
	37.00000	-18.00000	19.50000	-0.089339	19.083	0.0	0.0
	38.00000	-18.00000	19.50000	-0.076142	19.083	0.0	0.0
	39.00000	-18.00000	19.50000	-0.063472	19.083	0.0	0.0
	40.00000	-18.00000	19.50000	-0.051407	19.083	0.0	0.0
	41.00000	-18.00000	19.50000	-0.040008	19.083	0.0	0.0
	42.00000	-18.00000	19.50000	-0.029321	19.083	0.0	0.0
	43.00000	-18.00000	19.50000	-0.019378	19.083	0.0	0.0
	44.00000	-18.00000	19.50000	-0.010194	19.083	0.0	0.0
	45.00000	-18.00000	19.50000	-0.0017786	19.083	0.0	0.0
	46.00000	-18.00000	19.50000	0.0058923	19.083	0.0	0.0
	47.00000	-18.00000	19.50000	0.012821	19.083	0.0	0.0
	48.00000	-18.00000	19.50000	0.019039	19.083	0.0	0.0
	49.00000	-18.00000	19.50000	0.024576	19.083	0.0	0.0
	50.00000	-18.00000	19.50000	0.029471	19.083	0.0	0.0
	51.00000	-18.00000	19.50000	0.033762	19.083	0.0	0.0
	52.00000	-18.00000	19.50000	0.037490	19.083	0.0	0.0
	53.00000	-18.00000	19.50000	0.040697	19.083	0.0	0.0
	54.00000	-18.00000	19.50000	0.043425	19.083	0.0	0.0
	55.00000	-18.00000	19.50000	0.045716	19.083	0.0	0.0
	-25.00000	-17.00000	19.50000	0.042794	19.083	0.0	0.0
	-24.00000	-17.00000	19.50000	0.040763	19.083	0.0	0.0
	-23.00000	-17.00000	19.50000	0.038320	19.083	0.0	0.0
	-22.00000	-17.00000	19.50000	0.035422	19.083	0.0	0.0
	-21.00000	-17.00000	19.50000	0.032023	19.083	0.0	0.0
	-20.00000	-17.00000	19.50000	0.028073	19.083	0.0	0.0
	-19.00000	-17.00000	19.50000	0.023522	19.083	0.0	0.0
	-18.00000	-17.00000	19.50000	0.018315	19.083	0.0	0.0
	-17.00000	-17.00000	19.50000	0.012402	19.083	0.0	0.0
	-16.00000	-17.00000	19.50000	0.0057276	19.083	0.0	0.0
	-15.00000	-17.00000	19.50000	-0.0017575	19.083	0.0	0.0
	-14.00000	-17.00000	19.50000	-0.010101	19.083	0.0	0.0
	-13.00000	-17.00000	19.50000	-0.019346	19.083	0.0	0.0
	-12.00000	-17.00000	19.50000	-0.029527	19.083	0.0	0.0
	-11.00000	-17.00000	19.50000	-0.040669	19.083	0.0	0.0
	-10.00000	-17.00000	19.50000	-0.052784	19.083	0.0	0.0
	-9.00000	-17.00000	19.50000	-0.065869	19.083	0.0	0.0
	-8.00000	-17.00000	19.50000	-0.079903	19.083	0.0	0.0
	-7.00000	-17.00000	19.50000	-0.094844	19.083	0.0	0.0
	-6.00000	-17.00000	19.50000	-0.110663	19.083	0.0	0.0
	-5.00000	-17.00000	19.50000	-0.12717	19.083	0.0	0.0
	-4.00000	-17.00000	19.50000	-0.14435	19.083	0.0	0.0
	-3.00000	-17.00000	19.50000	-0.16203	19.083	0.0	0.0
	-2.00000	-17.00000	19.50000	-0.18006	19.083	0.0	0.0
	-1.00000	-17.00000	19.50000	-0.19826	19.083	0.0	0.0
	0.00000	-17.00000	19.50000	-0.21645	19.083	0.0	0.0
	1.00000	-17.00000	19.50000	-0.23442	19.083	0.0	0.0
	2.00000	-17.00000	19.50000	-0.25198	19.083	0.0	0.0
	3.00000	-17.00000	19.50000	-0.26893	19.083	0.0	0.0
	4.00000	-17.00000	19.50000	-0.28510	19.083	0.0	0.0
	5.00000	-17.00000	19.50000	-0.30031	19.083	0.0	0.0
	6.00000	-17.00000	19.50000	-0.31442	19.083	0.0	0.0
	7.00000	-17.00000	19.50000	-0.32730	19.083	0.0	0.0
	8.00000	-17.00000	19.50000	-0.33884	19.083	0.0	0.0
	9.00000	-17.00000	19.50000	-0.34936	19.083	0.0	0.0
	10.00000	-17.00000	19.50000	-0.35760	19.083	0.0	0.0
	11.00000	-17.00000	19.50000	-0.36473	19.083	0.0	0.0
	12.00000	-17.00000	19.50000	-0.37031	19.083	0.0	0.0
	13.00000	-17.00000	19.50000	-0.37433	19.083	0.0	0.0
	14.00000	-17.00000	19.50000	-0.37681	19.083	0.0	0.0
	15.00000	-17.00000	19.50000	-0.37776	19.083	0.0	0.0
	16.00000	-17.00000	19.50000	-0.37721	19.083	0.0	0.0
	17.00000	-17.00000	19.50000	-0.37518	19.083	0.0	0.0
	18.00000	-17.00000	19.50000	-0.37171	19.083	0.0	0.0
	19.00000	-17.00000	19.50000	-0.36684	19.083	0.0	0.0
	20.00000	-17.00000	19.50000	-0.36063	19.083	0.0	0.0
	21.00000	-17.00000	19.50000	-0.35311	19.083	0.0	0.0
	22.00000	-17.00000	19.50000	-0.34434	19.083	0.0	0.0
	23.00000	-17.00000	19.50000	-0.33437	19.083	0.0	0.0
	24.00000	-17.00000	19.50000	-0.32326	19.083	0.0	0.0
	25.00000	-17.00000	19.50000	-0.31108	19.083	0.0	0.0
	26.00000	-17.00000	19.50000	-0.29791	19.083	0.0	0.0
	27.00000	-17.00000	19.50000	-0.28381	19.083	0.0	0.0
	28.00000	-17.00000	19.50000	-0.26889	19.083	0.0	0.0
	29.00000	-17.00000	19.50000	-0.25324	19.083	0.0	0.0
	30.00000	-17.00000	19.50000	-0.23699	19.083	0.0	0.0
	31.00000	-17.00000	19.50000	-0.22027	19.083	0.0	0.0
	32.00000	-17.00000	19.50000	-0.20321	19.083	0.0	0.0
	33.00000	-17.00000	19.50000	-0.18596	19.083	0.0	0.0
	34.00000	-17.00000	19.50000	-0.16868	19.083	0.0	0.0
	35.00000	-17.00000	19.50000	-0.15152	19.083	0.0	0.0
	36.00000	-17.00000	19.50000	-0.13463	19.083	0.0	0.0
	37.00000	-17.00000	19.50000	-0.11815	19.083	0.0	0.0
	38.00000	-17.00000	19.50000	-0.10221	19.083	0.0	0.0
	39.00000	-17.00000	19.50000	-0.086926	19.083	0.0	0.0
	40.00000	-17.00000	19.50000	-0.072391	19.083	0.0	0.0
	41.00000	-17.00000	19.50000	-0.058681	19.083	0.0	0.0
	42.00000	-17.00000	19.50000	-0.045849	19.083	0.0	0.0
	43.00000	-17.00000	19.50000	-0.033931	19.083	0.0	0.0
	44.00000	-17.00000	19.50000	-0.022943	19.083	0.0	0.0
	45.00000	-17.00000	19.50000	-0.012885	19.083	0.0	0.0
	46.00000	-17.00000	19.50000	-0.0037430	19.083	0.0	0.0
	47.00000	-17.00000	19.50000	0.0045090	19.083	0.0	0.0
	48.00000	-17.00000	19.50000	0.011906	19.083	0.0	0.0
	49.00000	-17.00000	19.50000	0.019491	19.083	0.0	0.0
	50.00000	-17.00000	19.50000	0.024310	19.083	0.0	0.0
	51.00000	-17.00000	19.50000	0.029414	19.083	0.0	0.0
	52.00000	-17.00000	19.50000	0.033854	19.083	0.0	0.0
	53.00000	-17.00000	19.50000	0.037683	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mOD]	Verit Stress [kN/m ²]	Stresses Sum Princ [kN/m ²]	Verit Strain [-]
54.00000	-17.00000	19.50000	0.040951	19.083	0.0	0.0	0.0
55.00000	-17.00000	19.50000	0.043710	19.083	0.0	0.0	0.0
-25.00000	-16.00000	19.50000	0.041208	19.083	0.0	0.0	0.0
-24.00000	-16.00000	19.50000	0.038800	19.083	0.0	0.0	0.0
-23.00000	-16.00000	19.50000	0.035921	19.083	0.0	0.0	0.0
-22.00000	-16.00000	19.50000	0.032520	19.083	0.0	0.0	0.0
-21.00000	-16.00000	19.50000	0.028539	19.083	0.0	0.0	0.0
-20.00000	-16.00000	19.50000	0.023919	19.083	0.0	0.0	0.0
-19.00000	-16.00000	19.50000	0.018599	19.083	0.0	0.0	0.0
-18.00000	-16.00000	19.50000	0.012514	19.083	0.0	0.0	0.0
-17.00000	-16.00000	19.50000	0.0055966	19.083	0.0	0.0	0.0
-16.00000	-16.00000	19.50000	-0.0022186	19.083	0.0	0.0	0.0
-15.00000	-16.00000	19.50000	-0.010997	19.083	0.0	0.0	0.0
-14.00000	-16.00000	19.50000	-0.020801	19.083	0.0	0.0	0.0
-13.00000	-16.00000	19.50000	-0.031689	19.083	0.0	0.0	0.0
-12.00000	-16.00000	19.50000	-0.043707	19.083	0.0	0.0	0.0
-11.00000	-16.00000	19.50000	-0.056895	19.083	0.0	0.0	0.0
-10.00000	-16.00000	19.50000	-0.071276	19.083	0.0	0.0	0.0
-9.00000	-16.00000	19.50000	-0.086853	19.083	0.0	0.0	0.0
-8.00000	-16.00000	19.50000	-0.10361	19.083	0.0	0.0	0.0
-7.00000	-16.00000	19.50000	-0.121550	19.083	0.0	0.0	0.0
-6.00000	-16.00000	19.50000	-0.14046	19.083	0.0	0.0	0.0
-5.00000	-16.00000	19.50000	-0.16037	19.083	0.0	0.0	0.0
-4.00000	-16.00000	19.50000	-0.18111	19.083	0.0	0.0	0.0
-3.00000	-16.00000	19.50000	-0.20250	19.083	0.0	0.0	0.0
-2.00000	-16.00000	19.50000	-0.22435	19.083	0.0	0.0	0.0
-1.00000	-16.00000	19.50000	-0.24644	19.083	0.0	0.0	0.0
0.00000	-16.00000	19.50000	-0.26854	19.083	0.0	0.0	0.0
1.00000	-16.00000	19.50000	-0.29039	19.083	0.0	0.0	0.0
2.00000	-16.00000	19.50000	-0.31174	19.083	0.0	0.0	0.0
3.00000	-16.00000	19.50000	-0.33235	19.083	0.0	0.0	0.0
4.00000	-16.00000	19.50000	-0.35200	19.083	0.0	0.0	0.0
5.00000	-16.00000	19.50000	-0.37046	19.083	0.0	0.0	0.0
6.00000	-16.00000	19.50000	-0.38757	19.083	0.0	0.0	0.0
7.00000	-16.00000	19.50000	-0.40317	19.083	0.0	0.0	0.0
8.00000	-16.00000	19.50000	-0.41712	19.083	0.0	0.0	0.0
9.00000	-16.00000	19.50000	-0.42935	19.083	0.0	0.0	0.0
10.00000	-16.00000	19.50000	-0.43977	19.083	0.0	0.0	0.0
11.00000	-16.00000	19.50000	-0.44835	19.083	0.0	0.0	0.0
12.00000	-16.00000	19.50000	-0.45507	19.083	0.0	0.0	0.0
13.00000	-16.00000	19.50000	-0.45992	19.083	0.0	0.0	0.0
14.00000	-16.00000	19.50000	-0.46291	19.083	0.0	0.0	0.0
15.00000	-16.00000	19.50000	-0.46407	19.083	0.0	0.0	0.0
16.00000	-16.00000	19.50000	-0.46343	19.083	0.0	0.0	0.0
17.00000	-16.00000	19.50000	-0.46103	19.083	0.0	0.0	0.0
18.00000	-16.00000	19.50000	-0.45692	19.083	0.0	0.0	0.0
19.00000	-16.00000	19.50000	-0.45115	19.083	0.0	0.0	0.0
20.00000	-16.00000	19.50000	-0.44376	19.083	0.0	0.0	0.0
21.00000	-16.00000	19.50000	-0.43483	19.083	0.0	0.0	0.0
22.00000	-16.00000	19.50000	-0.42439	19.083	0.0	0.0	0.0
23.00000	-16.00000	19.50000	-0.41252	19.083	0.0	0.0	0.0
24.00000	-16.00000	19.50000	-0.39927	19.083	0.0	0.0	0.0
25.00000	-16.00000	19.50000	-0.38473	19.083	0.0	0.0	0.0
26.00000	-16.00000	19.50000	-0.36896	19.083	0.0	0.0	0.0
27.00000	-16.00000	19.50000	-0.35207	19.083	0.0	0.0	0.0
28.00000	-16.00000	19.50000	-0.33416	19.083	0.0	0.0	0.0
29.00000	-16.00000	19.50000	-0.31534	19.083	0.0	0.0	0.0
30.00000	-16.00000	19.50000	-0.29577	19.083	0.0	0.0	0.0
31.00000	-16.00000	19.50000	-0.27559	19.083	0.0	0.0	0.0
32.00000	-16.00000	19.50000	-0.25498	19.083	0.0	0.0	0.0
33.00000	-16.00000	19.50000	-0.23412	19.083	0.0	0.0	0.0
34.00000	-16.00000	19.50000	-0.21321	19.083	0.0	0.0	0.0
35.00000	-16.00000	19.50000	-0.19243	19.083	0.0	0.0	0.0
36.00000	-16.00000	19.50000	-0.17199	19.083	0.0	0.0	0.0
37.00000	-16.00000	19.50000	-0.15207	19.083	0.0	0.0	0.0
38.00000	-16.00000	19.50000	-0.13281	19.083	0.0	0.0	0.0
39.00000	-16.00000	19.50000	-0.11438	19.083	0.0	0.0	0.0
40.00000	-16.00000	19.50000	-0.096876	19.083	0.0	0.0	0.0
41.00000	-16.00000	19.50000	-0.080401	19.083	0.0	0.0	0.0
42.00000	-16.00000	19.50000	-0.065016	19.083	0.0	0.0	0.0
43.00000	-16.00000	19.50000	-0.050758	19.083	0.0	0.0	0.0
44.00000	-16.00000	19.50000	-0.037643	19.083	0.0	0.0	0.0
45.00000	-16.00000	19.50000	-0.025664	19.083	0.0	0.0	0.0
46.00000	-16.00000	19.50000	-0.014799	19.083	0.0	0.0	0.0
47.00000	-16.00000	19.50000	-0.0050992	19.083	0.0	0.0	0.0
48.00000	-16.00000	19.50000	0.0037521	19.083	0.0	0.0	0.0
49.00000	-16.00000	19.50000	0.011541	19.083	0.0	0.0	0.0
50.00000	-16.00000	19.50000	0.018420	19.083	0.0	0.0	0.0
51.00000	-16.00000	19.50000	0.024451	19.083	0.0	0.0	0.0
52.00000	-16.00000	19.50000	0.029700	19.083	0.0	0.0	0.0
53.00000	-16.00000	19.50000	0.034222	19.083	0.0	0.0	0.0
54.00000	-16.00000	19.50000	0.038110	19.083	0.0	0.0	0.0
55.00000	-16.00000	19.50000	0.041395	19.083	0.0	0.0	0.0
-25.00000	-15.00000	19.50000	0.039414	19.083	0.0	0.0	0.0
-24.00000	-15.00000	19.50000	0.036592	19.083	0.0	0.0	0.0
-23.00000	-15.00000	19.50000	0.033232	19.083	0.0	0.0	0.0
-22.00000	-15.00000	19.50000	0.029272	19.083	0.0	0.0	0.0
-21.00000	-15.00000	19.50000	0.024644	19.083	0.0	0.0	0.0
-20.00000	-15.00000	19.50000	0.019279	19.083	0.0	0.0	0.0
-19.00000	-15.00000	19.50000	0.013099	19.083	0.0	0.0	0.0
-18.00000	-15.00000	19.50000	0.0060254	19.083	0.0	0.0	0.0
-17.00000	-15.00000	19.50000	-0.0020236	19.083	0.0	0.0	0.0
-16.00000	-15.00000	19.50000	-0.011132	19.083	0.0	0.0	0.0
-15.00000	-15.00000	19.50000	-0.021384	19.083	0.0	0.0	0.0
-14.00000	-15.00000	19.50000	-0.032859	19.083	0.0	0.0	0.0
-13.00000	-15.00000	19.50000	-0.045636	19.083	0.0	0.0	0.0
-12.00000	-15.00000	19.50000	-0.059780	19.083	0.0	0.0	0.0
-11.00000	-15.00000	19.50000	-0.075349	19.083	0.0	0.0	0.0
-10.00000	-15.00000	19.50000	-0.092379	19.083	0.0	0.0	0.0
-9.00000	-15.00000	19.50000	-0.11089	19.083	0.0	0.0	0.0
-8.00000	-15.00000	19.50000	-0.13087	19.083	0.0	0.0	0.0
-7.00000	-15.00000	19.50000	-0.15227	19.083	0.0	0.0	0.0
-6.00000	-15.00000	19.50000	-0.17502	19.083	0.0	0.0	0.0
-5.00000	-15.00000	19.50000	-0.19899	19.083	0.0	0.0	0.0
-4.00000	-15.00000	19.50000	-0.22403	19.083	0.0	0.0	0.0
-3.00000	-15.00000	19.50000	-0.24992	19.083	0.0	0.0	0.0
-2.00000	-15.00000	19.50000	-0.27642	19.083	0.0	0.0	0.0
-1.00000	-15.00000	19.50000	-0.30327	19.083	0.0	0.0	0.0
0.00000	-15.00000	19.50000	-0.33014	19.083	0.0	0.0	0.0
1.00000	-15.00000	19.50000	-0.35673	19.083	0.0	0.0	0.0
2.00000	-15.00000	19.50000	-0.38272	19.083	0.0	0.0	0.0
3.00000	-15.00000	19.50000	-0.40781	19.083	0.0	0.0	0.0
4.00000	-15.00000	19.50000	-0.43169	19.083	0.0	0.0	0.0
5.00000	-15.00000	19.50000	-0.45412	19.083	0.0	0.0	0.0
6.00000	-15.00000	19.50000	-0.47487	19.083	0.0	0.0	0.0
7.00000	-15.00000	19.50000	-0.49375	19.083	0.0	0.0	0.0
8.00000	-15.00000	19.50000	-0.51062	19.083	0.0	0.0	0.0
9.00000	-15.00000	19.50000	-0.52537	19.083	0.0	0.0	0.0
10.00000	-15.00000	19.50000	-0.53792	19.083	0.0	0.0	0.0
11.00000	-15.00000	19.50000	-0.54824	19.083	0.0	0.0	0.0
12.00000	-15.00000	19.50000	-0.55630	19.083	0.0	0.0	0.0
13.00000	-15.00000	19.50000	-0.56212	19.083	0.0	0.0	0.0
14.00000	-15.00000	19.50000	-0.56570	19.083	0.0	0.0	0.0
15.00000	-15.00000	19.50000	-0.56710	19.083	0.0	0.0	0.0
16.00000	-15.00000	19.50000	-0.56636	19.083	0.0	0.0	0.0
17.00000	-15.00000	19.50000	-0.56352	19.083	0.0	0.0	0.0
18.00000	-15.00000	19.50000	-0.55864	19.083	0.0	0.0	0.0
19.00000	-15.00000	19.50000	-0.55179	19.083	0.0	0.0	0.0
20.00000	-15.00000	19.50000	-0.54302	19.083	0.0	0.0	0.0
21.00000	-15.00000	19.50000	-0.53240	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses			
X [m]	Y [m]	Z [Level] [mm]	Calc Level [MOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
22.00000	-15.00000	19.50000	-0.52000	19.083	0.0	0.0
23.00000	-15.00000	19.50000	-0.50587	19.083	0.0	0.0
24.00000	-15.00000	19.50000	-0.49008	19.083	0.0	0.0
25.00000	-15.00000	19.50000	-0.47272	19.083	0.0	0.0
26.00000	-15.00000	19.50000	-0.45388	19.083	0.0	0.0
27.00000	-15.00000	19.50000	-0.43364	19.083	0.0	0.0
28.00000	-15.00000	19.50000	-0.41213	19.083	0.0	0.0
29.00000	-15.00000	19.50000	-0.38950	19.083	0.0	0.0
30.00000	-15.00000	19.50000	-0.36590	19.083	0.0	0.0
31.00000	-15.00000	19.50000	-0.34153	19.083	0.0	0.0
32.00000	-15.00000	19.50000	-0.31660	19.083	0.0	0.0
33.00000	-15.00000	19.50000	-0.29135	19.083	0.0	0.0
34.00000	-15.00000	19.50000	-0.26601	19.083	0.0	0.0
35.00000	-15.00000	19.50000	-0.24084	19.083	0.0	0.0
36.00000	-15.00000	19.50000	-0.21608	19.083	0.0	0.0
37.00000	-15.00000	19.50000	-0.19196	19.083	0.0	0.0
38.00000	-15.00000	19.50000	-0.16869	19.083	0.0	0.0
39.00000	-15.00000	19.50000	-0.14645	19.083	0.0	0.0
40.00000	-15.00000	19.50000	-0.12539	19.083	0.0	0.0
41.00000	-15.00000	19.50000	-0.10560	19.083	0.0	0.0
42.00000	-15.00000	19.50000	-0.08717	19.083	0.0	0.0
43.00000	-15.00000	19.50000	-0.070145	19.083	0.0	0.0
44.00000	-15.00000	19.50000	-0.054523	19.083	0.0	0.0
45.00000	-15.00000	19.50000	-0.040294	19.083	0.0	0.0
46.00000	-15.00000	19.50000	-0.027420	19.083	0.0	0.0
47.00000	-15.00000	19.50000	-0.015848	19.083	0.0	0.0
48.00000	-15.00000	19.50000	-0.0055143	19.083	0.0	0.0
49.00000	-15.00000	19.50000	0.0036570	19.083	0.0	0.0
50.00000	-15.00000	19.50000	0.011744	19.083	0.0	0.0
51.00000	-15.00000	19.50000	0.018830	19.083	0.0	0.0
52.00000	-15.00000	19.50000	0.024995	19.083	0.0	0.0
53.00000	-15.00000	19.50000	0.030320	19.083	0.0	0.0
54.00000	-15.00000	19.50000	0.034882	19.083	0.0	0.0
55.00000	-15.00000	19.50000	0.038756	19.083	0.0	0.0
-25.00000	-14.00000	19.50000	0.037409	19.083	0.0	0.0
-24.00000	-14.00000	19.50000	0.034133	19.083	0.0	0.0
-23.00000	-14.00000	19.50000	0.030244	19.083	0.0	0.0
-22.00000	-14.00000	19.50000	0.025668	19.083	0.0	0.0
-21.00000	-14.00000	19.50000	0.020326	19.083	0.0	0.0
-20.00000	-14.00000	19.50000	0.014132	19.083	0.0	0.0
-19.00000	-14.00000	19.50000	0.006941	19.083	0.0	0.0
-18.00000	-14.00000	19.50000	-0.0011844	19.083	0.0	0.0
-17.00000	-14.00000	19.50000	-0.010505	19.083	0.0	0.0
-16.00000	-14.00000	19.50000	-0.021074	19.083	0.0	0.0
-15.00000	-14.00000	19.50000	-0.032997	19.083	0.0	0.0
-14.00000	-14.00000	19.50000	-0.046379	19.083	0.0	0.0
-13.00000	-14.00000	19.50000	-0.061322	19.083	0.0	0.0
-12.00000	-14.00000	19.50000	-0.077920	19.083	0.0	0.0
-11.00000	-14.00000	19.50000	-0.096251	19.083	0.0	0.0
-10.00000	-14.00000	19.50000	-0.11638	19.083	0.0	0.0
-9.00000	-14.00000	19.50000	-0.13883	19.083	0.0	0.0
-8.00000	-14.00000	19.50000	-0.16212	19.083	0.0	0.0
-7.00000	-14.00000	19.50000	-0.18770	19.083	0.0	0.0
-6.00000	-14.00000	19.50000	-0.21500	19.083	0.0	0.0
-5.00000	-14.00000	19.50000	-0.24386	19.083	0.0	0.0
-4.00000	-14.00000	19.50000	-0.27410	19.083	0.0	0.0
-3.00000	-14.00000	19.50000	-0.30547	19.083	0.0	0.0
-2.00000	-14.00000	19.50000	-0.33766	19.083	0.0	0.0
-1.00000	-14.00000	19.50000	-0.37031	19.083	0.0	0.0
0.00000	-14.00000	19.50000	-0.40305	19.083	0.0	0.0
1.00000	-14.00000	19.50000	-0.43547	19.083	0.0	0.0
2.00000	-14.00000	19.50000	-0.46715	19.083	0.0	0.0
3.00000	-14.00000	19.50000	-0.49771	19.083	0.0	0.0
4.00000	-14.00000	19.50000	-0.52678	19.083	0.0	0.0
5.00000	-14.00000	19.50000	-0.55404	19.083	0.0	0.0
6.00000	-14.00000	19.50000	-0.57921	19.083	0.0	0.0
7.00000	-14.00000	19.50000	-0.60207	19.083	0.0	0.0
8.00000	-14.00000	19.50000	-0.62245	19.083	0.0	0.0
9.00000	-14.00000	19.50000	-0.64023	19.083	0.0	0.0
10.00000	-14.00000	19.50000	-0.65532	19.083	0.0	0.0
11.00000	-14.00000	19.50000	-0.66770	19.083	0.0	0.0
12.00000	-14.00000	19.50000	-0.67736	19.083	0.0	0.0
13.00000	-14.00000	19.50000	-0.68431	19.083	0.0	0.0
14.00000	-14.00000	19.50000	-0.68860	19.083	0.0	0.0
15.00000	-14.00000	19.50000	-0.69027	19.083	0.0	0.0
16.00000	-14.00000	19.50000	-0.68938	19.083	0.0	0.0
17.00000	-14.00000	19.50000	-0.68601	19.083	0.0	0.0
18.00000	-14.00000	19.50000	-0.68022	19.083	0.0	0.0
19.00000	-14.00000	19.50000	-0.67209	19.083	0.0	0.0
20.00000	-14.00000	19.50000	-0.66168	19.083	0.0	0.0
21.00000	-14.00000	19.50000	-0.64908	19.083	0.0	0.0
22.00000	-14.00000	19.50000	-0.63434	19.083	0.0	0.0
23.00000	-14.00000	19.50000	-0.61753	19.083	0.0	0.0
24.00000	-14.00000	19.50000	-0.59874	19.083	0.0	0.0
25.00000	-14.00000	19.50000	-0.57803	19.083	0.0	0.0
26.00000	-14.00000	19.50000	-0.55550	19.083	0.0	0.0
27.00000	-14.00000	19.50000	-0.53126	19.083	0.0	0.0
28.00000	-14.00000	19.50000	-0.50544	19.083	0.0	0.0
29.00000	-14.00000	19.50000	-0.47820	19.083	0.0	0.0
30.00000	-14.00000	19.50000	-0.44973	19.083	0.0	0.0
31.00000	-14.00000	19.50000	-0.42027	19.083	0.0	0.0
32.00000	-14.00000	19.50000	-0.39008	19.083	0.0	0.0
33.00000	-14.00000	19.50000	-0.35945	19.083	0.0	0.0
34.00000	-14.00000	19.50000	-0.32870	19.083	0.0	0.0
35.00000	-14.00000	19.50000	-0.29815	19.083	0.0	0.0
36.00000	-14.00000	19.50000	-0.26811	19.083	0.0	0.0
37.00000	-14.00000	19.50000	-0.23888	19.083	0.0	0.0
38.00000	-14.00000	19.50000	-0.21073	19.083	0.0	0.0
39.00000	-14.00000	19.50000	-0.18388	19.083	0.0	0.0
40.00000	-14.00000	19.50000	-0.15852	19.083	0.0	0.0
41.00000	-14.00000	19.50000	-0.13477	19.083	0.0	0.0
42.00000	-14.00000	19.50000	-0.11272	19.083	0.0	0.0
43.00000	-14.00000	19.50000	-0.092403	19.083	0.0	0.0
44.00000	-14.00000	19.50000	-0.073830	19.083	0.0	0.0
45.00000	-14.00000	19.50000	-0.056966	19.083	0.0	0.0
46.00000	-14.00000	19.50000	-0.041757	19.083	0.0	0.0
47.00000	-14.00000	19.50000	-0.028125	19.083	0.0	0.0
48.00000	-14.00000	19.50000	-0.015983	19.083	0.0	0.0
49.00000	-14.00000	19.50000	-0.0052314	19.083	0.0	0.0
50.00000	-14.00000	19.50000	0.0042317	19.083	0.0	0.0
51.00000	-14.00000	19.50000	0.0125510	19.083	0.0	0.0
52.00000	-14.00000	19.50000	0.019707	19.083	0.0	0.0
53.00000	-14.00000	19.50000	0.025922	19.083	0.0	0.0
54.00000	-14.00000	19.50000	0.031249	19.083	0.0	0.0
55.00000	-14.00000	19.50000	0.035779	19.083	0.0	0.0
-25.00000	-13.00000	19.50000	0.035191	19.083	0.0	0.0
-24.00000	-13.00000	19.50000	0.031420	19.083	0.0	0.0
-23.00000	-13.00000	19.50000	0.026952	19.083	0.0	0.0
-22.00000	-13.00000	19.50000	0.021701	19.083	0.0	0.0
-21.00000	-13.00000	19.50000	0.015572	19.083	0.0	0.0
-20.00000	-13.00000	19.50000	0.0084631	19.083	0.0	0.0
-19.00000	-13.00000	19.50000	263.34E-6	19.083	0.0	0.0
-18.00000	-13.00000	19.50000	-0.0091457	19.083	0.0	0.0
-17.00000	-13.00000	19.50000	-0.019890	19.083	0.0	0.0
-16.00000	-13.00000	19.50000	-0.032100	19.083	0.0	0.0
-15.00000	-13.00000	19.50000	-0.045911	19.083	0.0	0.0
-14.00000	-13.00000	19.50000	-0.061460	19.083	0.0	0.0
-13.00000	-13.00000	19.50000	-0.078880	19.083	0.0	0.0
-12.00000	-13.00000	19.50000	-0.098299	19.083	0.0	0.0
-11.00000	-13.00000	19.50000	-0.11993	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-10.00000	-13.00000	19.50000	-0.14356	19.083	0.0	0.0
	-9.00000	-13.00000	19.50000	-0.16957	19.083	0.0	0.0
	-8.00000	-13.00000	19.50000	-0.19786	19.083	0.0	0.0
	-7.00000	-13.00000	19.50000	-0.22842	19.083	0.0	0.0
	-6.00000	-13.00000	19.50000	-0.26116	19.083	0.0	0.0
	-5.00000	-13.00000	19.50000	-0.29592	19.083	0.0	0.0
	-4.00000	-13.00000	19.50000	-0.33249	19.083	0.0	0.0
	-3.00000	-13.00000	19.50000	-0.37053	19.083	0.0	0.0
	-2.00000	-13.00000	19.50000	-0.40968	19.083	0.0	0.0
	-1.00000	-13.00000	19.50000	-0.44949	19.083	0.0	0.0
	0.00000	-13.00000	19.50000	-0.48945	19.083	0.0	0.0
	1.00000	-13.00000	19.50000	-0.52905	19.083	0.0	0.0
	2.00000	-13.00000	19.50000	-0.56775	19.083	0.0	0.0
	3.00000	-13.00000	19.50000	-0.60506	19.083	0.0	0.0
	4.00000	-13.00000	19.50000	-0.64049	19.083	0.0	0.0
	5.00000	-13.00000	19.50000	-0.67365	19.083	0.0	0.0
	6.00000	-13.00000	19.50000	-0.70421	19.083	0.0	0.0
	7.00000	-13.00000	19.50000	-0.73188	19.083	0.0	0.0
	8.00000	-13.00000	19.50000	-0.75649	19.083	0.0	0.0
	9.00000	-13.00000	19.50000	-0.77789	19.083	0.0	0.0
	10.00000	-13.00000	19.50000	-0.79602	19.083	0.0	0.0
	11.00000	-13.00000	19.50000	-0.81085	19.083	0.0	0.0
	12.00000	-13.00000	19.50000	-0.82239	19.083	0.0	0.0
	13.00000	-13.00000	19.50000	-0.83067	19.083	0.0	0.0
	14.00000	-13.00000	19.50000	-0.83576	19.083	0.0	0.0
	15.00000	-13.00000	19.50000	-0.83773	19.083	0.0	0.0
	16.00000	-13.00000	19.50000	-0.83666	19.083	0.0	0.0
	17.00000	-13.00000	19.50000	-0.83264	19.083	0.0	0.0
	18.00000	-13.00000	19.50000	-0.82576	19.083	0.0	0.0
	19.00000	-13.00000	19.50000	-0.81611	19.083	0.0	0.0
	20.00000	-13.00000	19.50000	-0.80376	19.083	0.0	0.0
	21.00000	-13.00000	19.50000	-0.78880	19.083	0.0	0.0
	22.00000	-13.00000	19.50000	-0.77130	19.083	0.0	0.0
	23.00000	-13.00000	19.50000	-0.75134	19.083	0.0	0.0
	24.00000	-13.00000	19.50000	-0.72898	19.083	0.0	0.0
	25.00000	-13.00000	19.50000	-0.70430	19.083	0.0	0.0
	26.00000	-13.00000	19.50000	-0.67738	19.083	0.0	0.0
	27.00000	-13.00000	19.50000	-0.64835	19.083	0.0	0.0
	28.00000	-13.00000	19.50000	-0.61733	19.083	0.0	0.0
	29.00000	-13.00000	19.50000	-0.58452	19.083	0.0	0.0
	30.00000	-13.00000	19.50000	-0.55014	19.083	0.0	0.0
	31.00000	-13.00000	19.50000	-0.51447	19.083	0.0	0.0
	32.00000	-13.00000	19.50000	-0.47784	19.083	0.0	0.0
	33.00000	-13.00000	19.50000	-0.44062	19.083	0.0	0.0
	34.00000	-13.00000	19.50000	-0.40322	19.083	0.0	0.0
	35.00000	-13.00000	19.50000	-0.36605	19.083	0.0	0.0
	36.00000	-13.00000	19.50000	-0.32953	19.083	0.0	0.0
	37.00000	-13.00000	19.50000	-0.29404	19.083	0.0	0.0
	38.00000	-13.00000	19.50000	-0.25994	19.083	0.0	0.0
	39.00000	-13.00000	19.50000	-0.22750	19.083	0.0	0.0
	40.00000	-13.00000	19.50000	-0.19695	19.083	0.0	0.0
	41.00000	-13.00000	19.50000	-0.16844	19.083	0.0	0.0
	42.00000	-13.00000	19.50000	-0.14206	19.083	0.0	0.0
	43.00000	-13.00000	19.50000	-0.11786	19.083	0.0	0.0
	44.00000	-13.00000	19.50000	-0.095820	19.083	0.0	0.0
	45.00000	-13.00000	19.50000	-0.075981	19.083	0.0	0.0
	46.00000	-13.00000	19.50000	-0.057961	19.083	0.0	0.0
	47.00000	-13.00000	19.50000	-0.041955	19.083	0.0	0.0
	48.00000	-13.00000	19.50000	-0.027741	19.083	0.0	0.0
	49.00000	-13.00000	19.50000	-0.015189	19.083	0.0	0.0
	50.00000	-13.00000	19.50000	-0.004674	19.083	0.0	0.0
	51.00000	-13.00000	19.50000	0.0054564	19.083	0.0	0.0
	52.00000	-13.00000	19.50000	0.013811	19.083	0.0	0.0
	53.00000	-13.00000	19.50000	0.021019	19.083	0.0	0.0
	54.00000	-13.00000	19.50000	0.027197	19.083	0.0	0.0
	55.00000	-13.00000	19.50000	0.032323	19.083	0.0	0.0
	-25.00000	-12.00000	19.50000	0.032759	19.083	0.0	0.0
	-24.00000	-12.00000	19.50000	0.028451	19.083	0.0	0.0
	-23.00000	-12.00000	19.50000	0.023354	19.083	0.0	0.0
	-22.00000	-12.00000	19.50000	0.017366	19.083	0.0	0.0
	-21.00000	-12.00000	19.50000	0.010377	19.083	0.0	0.0
	-20.00000	-12.00000	19.50000	0.0022625	19.083	0.0	0.0
	-19.00000	-12.00000	19.50000	-0.0071089	19.083	0.0	0.0
	-18.00000	-12.00000	19.50000	-0.017881	19.083	0.0	0.0
	-17.00000	-12.00000	19.50000	-0.030209	19.083	0.0	0.0
	-16.00000	-12.00000	19.50000	-0.044256	19.083	0.0	0.0
	-15.00000	-12.00000	19.50000	-0.060191	19.083	0.0	0.0
	-14.00000	-12.00000	19.50000	-0.078192	19.083	0.0	0.0
	-13.00000	-12.00000	19.50000	-0.098433	19.083	0.0	0.0
	-12.00000	-12.00000	19.50000	-0.12109	19.083	0.0	0.0
	-11.00000	-12.00000	19.50000	-0.14631	19.083	0.0	0.0
	-10.00000	-12.00000	19.50000	-0.17424	19.083	0.0	0.0
	-9.00000	-12.00000	19.50000	-0.20498	19.083	0.0	0.0
	-8.00000	-12.00000	19.50000	-0.23860	19.083	0.0	0.0
	-7.00000	-12.00000	19.50000	-0.27508	19.083	0.0	0.0
	-6.00000	-12.00000	19.50000	-0.31436	19.083	0.0	0.0
	-5.00000	-12.00000	19.50000	-0.35626	19.083	0.0	0.0
	-4.00000	-12.00000	19.50000	-0.40051	19.083	0.0	0.0
	-3.00000	-12.00000	19.50000	-0.44674	19.083	0.0	0.0
	-2.00000	-12.00000	19.50000	-0.49446	19.083	0.0	0.0
	-1.00000	-12.00000	19.50000	-0.54311	19.083	0.0	0.0
	0.00000	-12.00000	19.50000	-0.59202	19.083	0.0	0.0
	1.00000	-12.00000	19.50000	-0.64052	19.083	0.0	0.0
	2.00000	-12.00000	19.50000	-0.68791	19.083	0.0	0.0
	3.00000	-12.00000	19.50000	-0.73354	19.083	0.0	0.0
	4.00000	-12.00000	19.50000	-0.77661	19.083	0.0	0.0
	5.00000	-12.00000	19.50000	-0.81721	19.083	0.0	0.0
	6.00000	-12.00000	19.50000	-0.85432	19.083	0.0	0.0
	7.00000	-12.00000	19.50000	-0.88783	19.083	0.0	0.0
	8.00000	-12.00000	19.50000	-0.91753	19.083	0.0	0.0
	9.00000	-12.00000	19.50000	-0.94328	19.083	0.0	0.0
	10.00000	-12.00000	19.50000	-0.96502	19.083	0.0	0.0
	11.00000	-12.00000	19.50000	-0.98274	19.083	0.0	0.0
	12.00000	-12.00000	19.50000	-0.99648	19.083	0.0	0.0
	13.00000	-12.00000	19.50000	-1.0063	19.083	0.0	0.0
	14.00000	-12.00000	19.50000	-1.01213	19.083	0.0	0.0
	15.00000	-12.00000	19.50000	-1.0146	19.083	0.0	0.0
	16.00000	-12.00000	19.50000	-1.0133	19.083	0.0	0.0
	17.00000	-12.00000	19.50000	-1.0085	19.083	0.0	0.0
	18.00000	-12.00000	19.50000	-1.0003	19.083	0.0	0.0
	19.00000	-12.00000	19.50000	-0.98886	19.083	0.0	0.0
	20.00000	-12.00000	19.50000	-0.97421	19.083	0.0	0.0
	21.00000	-12.00000	19.50000	-0.95648	19.083	0.0	0.0
	22.00000	-12.00000	19.50000	-0.93572	19.083	0.0	0.0
	23.00000	-12.00000	19.50000	-0.91203	19.083	0.0	0.0
	24.00000	-12.00000	19.50000	-0.88544	19.083	0.0	0.0
	25.00000	-12.00000	19.50000	-0.85605	19.083	0.0	0.0
	26.00000	-12.00000	19.50000	-0.82391	19.083	0.0	0.0
	27.00000	-12.00000	19.50000	-0.78914	19.083	0.0	0.0
	28.00000	-12.00000	19.50000	-0.75188	19.083	0.0	0.0
	29.00000	-12.00000	19.50000	-0.71233	19.083	0.0	0.0
	30.00000	-12.00000	19.50000	-0.67075	19.083	0.0	0.0
	31.00000	-12.00000	19.50000	-0.62747	19.083	0.0	0.0
	32.00000	-12.00000	19.50000	-0.58292	19.083	0.0	0.0
	33.00000	-12.00000	19.50000	-0.53757	19.083	0.0	0.0
	34.00000	-12.00000	19.50000	-0.49195	19.083	0.0	0.0
	35.00000	-12.00000	19.50000	-0.44660	19.083	0.0	0.0
	36.00000	-12.00000	19.50000	-0.40209	19.083	0.0	0.0
	37.00000	-12.00000	19.50000	-0.35890	19.083	0.0	0.0
	38.00000	-12.00000	19.50000	-0.31750	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	39.00000	-12.00000	19.50000	-0.27825	19.083	0.0	0.0
	40.00000	-12.00000	19.50000	-0.24142	19.083	0.0	0.0
	41.00000	-12.00000	19.50000	-0.20720	19.083	0.0	0.0
	42.00000	-12.00000	19.50000	-0.17567	19.083	0.0	0.0
	43.00000	-12.00000	19.50000	-0.14687	19.083	0.0	0.0
	44.00000	-12.00000	19.50000	-0.12076	19.083	0.0	0.0
	45.00000	-12.00000	19.50000	-0.097235	19.083	0.0	0.0
	46.00000	-12.00000	19.50000	-0.076181	19.083	0.0	0.0
	47.00000	-12.00000	19.50000	-0.057447	19.083	0.0	0.0
	48.00000	-12.00000	19.50000	-0.040868	19.083	0.0	0.0
	49.00000	-12.00000	19.50000	-0.026274	19.083	0.0	0.0
	50.00000	-12.00000	19.50000	-0.013495	19.083	0.0	0.0
	51.00000	-12.00000	19.50000	-0.0023624	19.083	0.0	0.0
	52.00000	-12.00000	19.50000	0.0072841	19.083	0.0	0.0
	53.00000	-12.00000	19.50000	0.015596	19.083	0.0	0.0
	54.00000	-12.00000	19.50000	0.022716	19.083	0.0	0.0
	55.00000	-12.00000	19.50000	0.028773	19.083	0.0	0.0
	-25.00000	-11.00000	19.50000	0.030116	19.083	0.0	0.0
	-24.00000	-11.00000	19.50000	0.025230	19.083	0.0	0.0
	-23.00000	-11.00000	19.50000	0.019453	19.083	0.0	0.0
	-22.00000	-11.00000	19.50000	0.012666	19.083	0.0	0.0
	-21.00000	-11.00000	19.50000	0.0047387	19.083	0.0	0.0
	-20.00000	-11.00000	19.50000	-0.0044737	19.083	0.0	0.0
	-19.00000	-11.00000	19.50000	-0.015130	19.083	0.0	0.0
	-18.00000	-11.00000	19.50000	-0.027405	19.083	0.0	0.0
	-17.00000	-11.00000	19.50000	-0.041487	19.083	0.0	0.0
	-16.00000	-11.00000	19.50000	-0.057578	19.083	0.0	0.0
	-15.00000	-11.00000	19.50000	-0.075891	19.083	0.0	0.0
	-14.00000	-11.00000	19.50000	-0.096653	19.083	0.0	0.0
	-13.00000	-11.00000	19.50000	-0.12009	19.083	0.0	0.0
	-12.00000	-11.00000	19.50000	-0.14643	19.083	0.0	0.0
	-11.00000	-11.00000	19.50000	-0.17590	19.083	0.0	0.0
	-10.00000	-11.00000	19.50000	-0.20870	19.083	0.0	0.0
	-9.00000	-11.00000	19.50000	-0.24499	19.083	0.0	0.0
	-8.00000	-11.00000	19.50000	-0.28487	19.083	0.0	0.0
	-7.00000	-11.00000	19.50000	-0.32841	19.083	0.0	0.0
	-6.00000	-11.00000	19.50000	-0.37553	19.083	0.0	0.0
	-5.00000	-11.00000	19.50000	-0.42607	19.083	0.0	0.0
	-4.00000	-11.00000	19.50000	-0.47972	19.083	0.0	0.0
	-3.00000	-11.00000	19.50000	-0.53601	19.083	0.0	0.0
	-2.00000	-11.00000	19.50000	-0.59434	19.083	0.0	0.0
	-1.00000	-11.00000	19.50000	-0.65397	19.083	0.0	0.0
	0.00000	-11.00000	19.50000	-0.71404	19.083	0.0	0.0
	1.00000	-11.00000	19.50000	-0.77364	19.083	0.0	0.0
	2.00000	-11.00000	19.50000	-0.83186	19.083	0.0	0.0
	3.00000	-11.00000	19.50000	-0.87782	19.083	0.0	0.0
	4.00000	-11.00000	19.50000	-0.94077	19.083	0.0	0.0
	5.00000	-11.00000	19.50000	-0.99006	19.083	0.0	0.0
	6.00000	-11.00000	19.50000	-1.0352	19.083	0.0	0.0
	7.00000	-11.00000	19.50000	-1.0758	19.083	0.0	0.0
	8.00000	-11.00000	19.50000	-1.1116	19.083	0.0	0.0
	9.00000	-11.00000	19.50000	-1.1425	19.083	0.0	0.0
	10.00000	-11.00000	19.50000	-1.1685	19.083	0.0	0.0
	11.00000	-11.00000	19.50000	-1.1897	19.083	0.0	0.0
	12.00000	-11.00000	19.50000	-1.2060	19.083	0.0	0.0
	13.00000	-11.00000	19.50000	-1.2176	19.083	0.0	0.0
	14.00000	-11.00000	19.50000	-1.2247	19.083	0.0	0.0
	15.00000	-11.00000	19.50000	-1.2273	19.083	0.0	0.0
	16.00000	-11.00000	19.50000	-1.2257	19.083	0.0	0.0
	17.00000	-11.00000	19.50000	-1.2199	19.083	0.0	0.0
	18.00000	-11.00000	19.50000	-1.2102	19.083	0.0	0.0
	19.00000	-11.00000	19.50000	-1.1966	19.083	0.0	0.0
	20.00000	-11.00000	19.50000	-1.1792	19.083	0.0	0.0
	21.00000	-11.00000	19.50000	-1.1582	19.083	0.0	0.0
	22.00000	-11.00000	19.50000	-1.1336	19.083	0.0	0.0
	23.00000	-11.00000	19.50000	-1.1055	19.083	0.0	0.0
	24.00000	-11.00000	19.50000	-1.0739	19.083	0.0	0.0
	25.00000	-11.00000	19.50000	-1.0390	19.083	0.0	0.0
	26.00000	-11.00000	19.50000	-1.0006	19.083	0.0	0.0
	27.00000	-11.00000	19.50000	-0.95898	19.083	0.0	0.0
	28.00000	-11.00000	19.50000	-0.91420	19.083	0.0	0.0
	29.00000	-11.00000	19.50000	-0.86647	19.083	0.0	0.0
	30.00000	-11.00000	19.50000	-0.81610	19.083	0.0	0.0
	31.00000	-11.00000	19.50000	-0.76348	19.083	0.0	0.0
	32.00000	-11.00000	19.50000	-0.70914	19.083	0.0	0.0
	33.00000	-11.00000	19.50000	-0.65370	19.083	0.0	0.0
	34.00000	-11.00000	19.50000	-0.59785	19.083	0.0	0.0
	35.00000	-11.00000	19.50000	-0.54233	19.083	0.0	0.0
	36.00000	-11.00000	19.50000	-0.48788	19.083	0.0	0.0
	37.00000	-11.00000	19.50000	-0.43518	19.083	0.0	0.0
	38.00000	-11.00000	19.50000	-0.38480	19.083	0.0	0.0
	39.00000	-11.00000	19.50000	-0.33723	19.083	0.0	0.0
	40.00000	-11.00000	19.50000	-0.29279	19.083	0.0	0.0
	41.00000	-11.00000	19.50000	-0.25169	19.083	0.0	0.0
	42.00000	-11.00000	19.50000	-0.21403	19.083	0.0	0.0
	43.00000	-11.00000	19.50000	-0.17979	19.083	0.0	0.0
	44.00000	-11.00000	19.50000	-0.14891	19.083	0.0	0.0
	45.00000	-11.00000	19.50000	-0.12122	19.083	0.0	0.0
	46.00000	-11.00000	19.50000	-0.096555	19.083	0.0	0.0
	47.00000	-11.00000	19.50000	-0.074699	19.083	0.0	0.0
	48.00000	-11.00000	19.50000	-0.055434	19.083	0.0	0.0
	49.00000	-11.00000	19.50000	-0.038535	19.083	0.0	0.0
	50.00000	-11.00000	19.50000	-0.023784	19.083	0.0	0.0
	51.00000	-11.00000	19.50000	-0.010968	19.083	0.0	0.0
	52.00000	-11.00000	19.50000	113.16E-6	19.083	0.0	0.0
	53.00000	-11.00000	19.50000	0.0096451	19.083	0.0	0.0
	54.00000	-11.00000	19.50000	0.017800	19.083	0.0	0.0
	55.00000	-11.00000	19.50000	0.024735	19.083	0.0	0.0
	-25.00000	-10.00000	19.50000	0.027269	19.083	0.0	0.0
	-24.00000	-10.00000	19.50000	0.021763	19.083	0.0	0.0
	-23.00000	-10.00000	19.50000	0.015254	19.083	0.0	0.0
	-22.00000	-10.00000	19.50000	0.0076055	19.083	0.0	0.0
	-21.00000	-10.00000	19.50000	-0.0013358	19.083	0.0	0.0
	-20.00000	-10.00000	19.50000	-0.011741	19.083	0.0	0.0
	-19.00000	-10.00000	19.50000	-0.023800	19.083	0.0	0.0
	-18.00000	-10.00000	19.50000	-0.037721	19.083	0.0	0.0
	-17.00000	-10.00000	19.50000	-0.053733	19.083	0.0	0.0
	-16.00000	-10.00000	19.50000	-0.072085	19.083	0.0	0.0
	-15.00000	-10.00000	19.50000	-0.093046	19.083	0.0	0.0
	-14.00000	-10.00000	19.50000	-0.11690	19.083	0.0	0.0
	-13.00000	-10.00000	19.50000	-0.14394	19.083	0.0	0.0
	-12.00000	-10.00000	19.50000	-0.17448	19.083	0.0	0.0
	-11.00000	-10.00000	19.50000	-0.20881	19.083	0.0	0.0
	-10.00000	-10.00000	19.50000	-0.24723	19.083	0.0	0.0
	-9.00000	-10.00000	19.50000	-0.28987	19.083	0.0	0.0
	-8.00000	-10.00000	19.50000	-0.33724	19.083	0.0	0.0
	-7.00000	-10.00000	19.50000	-0.38916	19.083	0.0	0.0
	-6.00000	-10.00000	19.50000	-0.44570	19.083	0.0	0.0
	-5.00000	-10.00000	19.50000	-0.50672	19.083	0.0	0.0
	-4.00000	-10.00000	19.50000	-0.57187	19.083	0.0	0.0
	-3.00000	-10.00000	19.50000	-0.64060	19.083	0.0	0.0
	-2.00000	-10.00000	19.50000	-0.71214	19.083	0.0	0.0
	-1.00000	-10.00000	19.50000	-0.78551	19.083	0.0	0.0
	0.00000	-10.00000	19.50000	-0.85958	19.083	0.0	0.0
	1.00000	-10.00000	19.50000	-0.93313	19.083	0.0	0.0
	2.00000	-10.00000	19.50000	-1.0049	19.083	0.0	0.0
	3.00000	-10.00000	19.50000	-1.0738	19.083	0.0	0.0
	4.00000	-10.00000	19.50000	-1.1388	19.083	0.0	0.0
	5.00000	-10.00000	19.50000	-1.1990	19.083	0.0	0.0
	6.00000	-10.00000	19.50000	-1.2539	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	7.00000	-10.00000	19.50000	-1.3031	19.083	0.0	0.0
	8.00000	-10.00000	19.50000	-1.3463	19.083	0.0	0.0
	9.00000	-10.00000	19.50000	-1.3834	19.083	0.0	0.0
	10.00000	-10.00000	19.50000	-1.4145	19.083	0.0	0.0
	11.00000	-10.00000	19.50000	-1.4396	19.083	0.0	0.0
	12.00000	-10.00000	19.50000	-1.4589	19.083	0.0	0.0
	13.00000	-10.00000	19.50000	-1.4726	19.083	0.0	0.0
	14.00000	-10.00000	19.50000	-1.4808	19.083	0.0	0.0
	15.00000	-10.00000	19.50000	-1.4838	19.083	0.0	0.0
	16.00000	-10.00000	19.50000	-1.4817	19.083	0.0	0.0
	17.00000	-10.00000	19.50000	-1.4748	19.083	0.0	0.0
	18.00000	-10.00000	19.50000	-1.4632	19.083	0.0	0.0
	19.00000	-10.00000	19.50000	-1.4470	19.083	0.0	0.0
	20.00000	-10.00000	19.50000	-1.4264	19.083	0.0	0.0
	21.00000	-10.00000	19.50000	-1.4016	19.083	0.0	0.0
	22.00000	-10.00000	19.50000	-1.3725	19.083	0.0	0.0
	23.00000	-10.00000	19.50000	-1.3392	19.083	0.0	0.0
	24.00000	-10.00000	19.50000	-1.3018	19.083	0.0	0.0
	25.00000	-10.00000	19.50000	-1.2602	19.083	0.0	0.0
	26.00000	-10.00000	19.50000	-1.2145	19.083	0.0	0.0
	27.00000	-10.00000	19.50000	-1.1646	19.083	0.0	0.0
	28.00000	-10.00000	19.50000	-1.1108	19.083	0.0	0.0
	29.00000	-10.00000	19.50000	-1.0532	19.083	0.0	0.0
	30.00000	-10.00000	19.50000	-0.99202	19.083	0.0	0.0
	31.00000	-10.00000	19.50000	-0.92787	19.083	0.0	0.0
	32.00000	-10.00000	19.50000	-0.86135	19.083	0.0	0.0
	33.00000	-10.00000	19.50000	-0.79329	19.083	0.0	0.0
	34.00000	-10.00000	19.50000	-0.72463	19.083	0.0	0.0
	35.00000	-10.00000	19.50000	-0.65635	19.083	0.0	0.0
	36.00000	-10.00000	19.50000	-0.58948	19.083	0.0	0.0
	37.00000	-10.00000	19.50000	-0.52491	19.083	0.0	0.0
	38.00000	-10.00000	19.50000	-0.46343	19.083	0.0	0.0
	39.00000	-10.00000	19.50000	-0.40565	19.083	0.0	0.0
	40.00000	-10.00000	19.50000	-0.35196	19.083	0.0	0.0
	41.00000	-10.00000	19.50000	-0.30259	19.083	0.0	0.0
	42.00000	-10.00000	19.50000	-0.25762	19.083	0.0	0.0
	43.00000	-10.00000	19.50000	-0.21698	19.083	0.0	0.0
	44.00000	-10.00000	19.50000	-0.18052	19.083	0.0	0.0
	45.00000	-10.00000	19.50000	-0.14802	19.083	0.0	0.0
	46.00000	-10.00000	19.50000	-0.11920	19.083	0.0	0.0
	47.00000	-10.00000	19.50000	-0.093793	19.083	0.0	0.0
	48.00000	-10.00000	19.50000	-0.071492	19.083	0.0	0.0
	49.00000	-10.00000	19.50000	-0.052006	19.083	0.0	0.0
	50.00000	-10.00000	19.50000	-0.035055	19.083	0.0	0.0
	51.00000	-10.00000	19.50000	-0.020371	19.083	0.0	0.0
	52.00000	-10.00000	19.50000	-0.0077074	19.083	0.0	0.0
	53.00000	-10.00000	19.50000	0.0031642	19.083	0.0	0.0
	54.00000	-10.00000	19.50000	0.012452	19.083	0.0	0.0
	55.00000	-10.00000	19.50000	0.020343	19.083	0.0	0.0
	-25.00000	-9.00000	19.50000	0.024227	19.083	0.0	0.0
	-24.00000	-9.00000	19.50000	0.018060	19.083	0.0	0.0
	-23.00000	-9.00000	19.50000	0.010770	19.083	0.0	0.0
	-22.00000	-9.00000	19.50000	0.0021978	19.083	0.0	0.0
	-21.00000	-9.00000	19.50000	-0.0078340	19.083	0.0	0.0
	-20.00000	-9.00000	19.50000	-0.019527	19.083	0.0	0.0
	-19.00000	-9.00000	19.50000	-0.0310104	19.083	0.0	0.0
	-18.00000	-9.00000	19.50000	-0.048816	19.083	0.0	0.0
	-17.00000	-9.00000	19.50000	-0.066940	19.083	0.0	0.0
	-16.00000	-9.00000	19.50000	-0.087779	19.083	0.0	0.0
	-15.00000	-9.00000	19.50000	-0.11167	19.083	0.0	0.0
	-14.00000	-9.00000	19.50000	-0.13896	19.083	0.0	0.0
	-13.00000	-9.00000	19.50000	-0.17005	19.083	0.0	0.0
	-12.00000	-9.00000	19.50000	-0.20532	19.083	0.0	0.0
	-11.00000	-9.00000	19.50000	-0.24519	19.083	0.0	0.0
	-10.00000	-9.00000	19.50000	-0.29006	19.083	0.0	0.0
	-9.00000	-9.00000	19.50000	-0.34031	19.083	0.0	0.0
	-8.00000	-9.00000	19.50000	-0.39625	19.083	0.0	0.0
	-7.00000	-9.00000	19.50000	-0.45810	19.083	0.0	0.0
	-6.00000	-9.00000	19.50000	-0.52596	19.083	0.0	0.0
	-5.00000	-9.00000	19.50000	-0.59971	19.083	0.0	0.0
	-4.00000	-9.00000	19.50000	-0.67900	19.083	0.0	0.0
	-3.00000	-9.00000	19.50000	-0.76318	19.083	0.0	0.0
	-2.00000	-9.00000	19.50000	-0.85127	19.083	0.0	0.0
	-1.00000	-9.00000	19.50000	-0.94198	19.083	0.0	0.0
	0.00000	-9.00000	19.50000	-1.0338	19.083	0.0	0.0
	1.00000	-9.00000	19.50000	-1.1250	19.083	0.0	0.0
	2.00000	-9.00000	19.50000	-1.2139	19.083	0.0	0.0
	3.00000	-9.00000	19.50000	-1.2991	19.083	0.0	0.0
	4.00000	-9.00000	19.50000	-1.3790	19.083	0.0	0.0
	5.00000	-9.00000	19.50000	-1.4528	19.083	0.0	0.0
	6.00000	-9.00000	19.50000	-1.5197	19.083	0.0	0.0
	7.00000	-9.00000	19.50000	-1.5792	19.083	0.0	0.0
	8.00000	-9.00000	19.50000	-1.6313	19.083	0.0	0.0
	9.00000	-9.00000	19.50000	-1.6757	19.083	0.0	0.0
	10.00000	-9.00000	19.50000	-1.7128	19.083	0.0	0.0
	11.00000	-9.00000	19.50000	-1.7425	19.083	0.0	0.0
	12.00000	-9.00000	19.50000	-1.7653	19.083	0.0	0.0
	13.00000	-9.00000	19.50000	-1.7813	19.083	0.0	0.0
	14.00000	-9.00000	19.50000	-1.7909	19.083	0.0	0.0
	15.00000	-9.00000	19.50000	-1.7942	19.083	0.0	0.0
	16.00000	-9.00000	19.50000	-1.7915	19.083	0.0	0.0
	17.00000	-9.00000	19.50000	-1.7832	19.083	0.0	0.0
	18.00000	-9.00000	19.50000	-1.7693	19.083	0.0	0.0
	19.00000	-9.00000	19.50000	-1.7501	19.083	0.0	0.0
	20.00000	-9.00000	19.50000	-1.7257	19.083	0.0	0.0
	21.00000	-9.00000	19.50000	-1.6963	19.083	0.0	0.0
	22.00000	-9.00000	19.50000	-1.6619	19.083	0.0	0.0
	23.00000	-9.00000	19.50000	-1.6226	19.083	0.0	0.0
	24.00000	-9.00000	19.50000	-1.5782	19.083	0.0	0.0
	25.00000	-9.00000	19.50000	-1.5289	19.083	0.0	0.0
	26.00000	-9.00000	19.50000	-1.4745	19.083	0.0	0.0
	27.00000	-9.00000	19.50000	-1.4149	19.083	0.0	0.0
	28.00000	-9.00000	19.50000	-1.3501	19.083	0.0	0.0
	29.00000	-9.00000	19.50000	-1.2804	19.083	0.0	0.0
	30.00000	-9.00000	19.50000	-1.2060	19.083	0.0	0.0
	31.00000	-9.00000	19.50000	-1.1276	19.083	0.0	0.0
	32.00000	-9.00000	19.50000	-1.0458	19.083	0.0	0.0
	33.00000	-9.00000	19.50000	-0.96184	19.083	0.0	0.0
	34.00000	-9.00000	19.50000	-0.87695	19.083	0.0	0.0
	35.00000	-9.00000	19.50000	-0.79252	19.083	0.0	0.0
	36.00000	-9.00000	19.50000	-0.70996	19.083	0.0	0.0
	37.00000	-9.00000	19.50000	-0.63051	19.083	0.0	0.0
	38.00000	-9.00000	19.50000	-0.55523	19.083	0.0	0.0
	39.00000	-9.00000	19.50000	-0.48487	19.083	0.0	0.0
	40.00000	-9.00000	19.50000	-0.41992	19.083	0.0	0.0
	41.00000	-9.00000	19.50000	-0.36061	19.083	0.0	0.0
	42.00000	-9.00000	19.50000	-0.30694	19.083	0.0	0.0
	43.00000	-9.00000	19.50000	-0.25876	19.083	0.0	0.0
	44.00000	-9.00000	19.50000	-0.21582	19.083	0.0	0.0
	45.00000	-9.00000	19.50000	-0.17776	19.083	0.0	0.0
	46.00000	-9.00000	19.50000	-0.14422	19.083	0.0	0.0
	47.00000	-9.00000	19.50000	-0.11479	19.083	0.0	0.0
	48.00000	-9.00000	19.50000	-0.089075	19.083	0.0	0.0
	49.00000	-9.00000	19.50000	-0.066703	19.083	0.0	0.0
	50.00000	-9.00000	19.50000	-0.047313	19.083	0.0	0.0
	51.00000	-9.00000	19.50000	-0.030571	19.083	0.0	0.0
	52.00000	-9.00000	19.50000	-0.016172	19.083	0.0	0.0
	53.00000	-9.00000	19.50000	-0.0038391	19.083	0.0	0.0
	54.00000	-9.00000	19.50000	0.0066783	19.083	0.0	0.0
	55.00000	-9.00000	19.50000	0.015604	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-25.00000	-8.00000	19.50000	0.021002	19.083	0.0	0.0
	-24.00000	-8.00000	19.50000	0.014136	19.083	0.0	0.0
	-23.00000	-8.00000	19.50000	0.0060163	19.083	0.0	0.0
	-22.00000	-8.00000	19.50000	-0.0035381	19.083	0.0	0.0
	-21.00000	-8.00000	19.50000	-0.014735	19.083	0.0	0.0
	-20.00000	-8.00000	19.50000	-0.027807	19.083	0.0	0.0
	-19.00000	-8.00000	19.50000	-0.043019	19.083	0.0	0.0
	-18.00000	-8.00000	19.50000	-0.060667	19.083	0.0	0.0
	-17.00000	-8.00000	19.50000	-0.081084	19.083	0.0	0.0
	-16.00000	-8.00000	19.50000	-0.10464	19.083	0.0	0.0
	-15.00000	-8.00000	19.50000	-0.13174	19.083	0.0	0.0
	-14.00000	-8.00000	19.50000	-0.16284	19.083	0.0	0.0
	-13.00000	-8.00000	19.50000	-0.19842	19.083	0.0	0.0
	-12.00000	-8.00000	19.50000	-0.23901	19.083	0.0	0.0
	-11.00000	-8.00000	19.50000	-0.28515	19.083	0.0	0.0
	-10.00000	-8.00000	19.50000	-0.33740	19.083	0.0	0.0
	-9.00000	-8.00000	19.50000	-0.39630	19.083	0.0	0.0
	-8.00000	-8.00000	19.50000	-0.46237	19.083	0.0	0.0
	-7.00000	-8.00000	19.50000	-0.53599	19.083	0.0	0.0
	-6.00000	-8.00000	19.50000	-0.61741	19.083	0.0	0.0
	-5.00000	-8.00000	19.50000	-0.70685	19.083	0.0	0.0
	-4.00000	-8.00000	19.50000	-0.80338	19.083	0.0	0.0
	-3.00000	-8.00000	19.50000	-0.90685	19.083	0.0	0.0
	-2.00000	-8.00000	19.50000	-1.0158	19.083	0.0	0.0
	-1.00000	-8.00000	19.50000	-1.1287	19.083	0.0	0.0
	0.00000	-8.00000	19.50000	-1.2432	19.083	0.0	0.0
	1.00000	-8.00000	19.50000	-1.3570	19.083	0.0	0.0
	2.00000	-8.00000	19.50000	-1.4679	19.083	0.0	0.0
	3.00000	-8.00000	19.50000	-1.5735	19.083	0.0	0.0
	4.00000	-8.00000	19.50000	-1.6723	19.083	0.0	0.0
	5.00000	-8.00000	19.50000	-1.7629	19.083	0.0	0.0
	6.00000	-8.00000	19.50000	-1.8444	19.083	0.0	0.0
	7.00000	-8.00000	19.50000	-1.9166	19.083	0.0	0.0
	8.00000	-8.00000	19.50000	-1.9791	19.083	0.0	0.0
	9.00000	-8.00000	19.50000	-2.0323	19.083	0.0	0.0
	10.00000	-8.00000	19.50000	-2.0763	19.083	0.0	0.0
	11.00000	-8.00000	19.50000	-2.1115	19.083	0.0	0.0
	12.00000	-8.00000	19.50000	-2.1382	19.083	0.0	0.0
	13.00000	-8.00000	19.50000	-2.1568	19.083	0.0	0.0
	14.00000	-8.00000	19.50000	-2.1678	19.083	0.0	0.0
	15.00000	-8.00000	19.50000	-2.1714	19.083	0.0	0.0
	16.00000	-8.00000	19.50000	-2.1680	19.083	0.0	0.0
	17.00000	-8.00000	19.50000	-2.1579	19.083	0.0	0.0
	18.00000	-8.00000	19.50000	-2.1412	19.083	0.0	0.0
	19.00000	-8.00000	19.50000	-2.1184	19.083	0.0	0.0
	20.00000	-8.00000	19.50000	-2.0895	19.083	0.0	0.0
	21.00000	-8.00000	19.50000	-2.0548	19.083	0.0	0.0
	22.00000	-8.00000	19.50000	-2.0142	19.083	0.0	0.0
	23.00000	-8.00000	19.50000	-1.9678	19.083	0.0	0.0
	24.00000	-8.00000	19.50000	-1.9154	19.083	0.0	0.0
	25.00000	-8.00000	19.50000	-1.8570	19.083	0.0	0.0
	26.00000	-8.00000	19.50000	-1.7922	19.083	0.0	0.0
	27.00000	-8.00000	19.50000	-1.7210	19.083	0.0	0.0
	28.00000	-8.00000	19.50000	-1.6432	19.083	0.0	0.0
	29.00000	-8.00000	19.50000	-1.5588	19.083	0.0	0.0
	30.00000	-8.00000	19.50000	-1.4681	19.083	0.0	0.0
	31.00000	-8.00000	19.50000	-1.3718	19.083	0.0	0.0
	32.00000	-8.00000	19.50000	-1.2707	19.083	0.0	0.0
	33.00000	-8.00000	19.50000	-1.1665	19.083	0.0	0.0
	34.00000	-8.00000	19.50000	-1.0608	19.083	0.0	0.0
	35.00000	-8.00000	19.50000	-0.95570	19.083	0.0	0.0
	36.00000	-8.00000	19.50000	-0.85312	19.083	0.0	0.0
	37.00000	-8.00000	19.50000	-0.75484	19.083	0.0	0.0
	38.00000	-8.00000	19.50000	-0.66226	19.083	0.0	0.0
	39.00000	-8.00000	19.50000	-0.57636	19.083	0.0	0.0
	40.00000	-8.00000	19.50000	-0.49769	19.083	0.0	0.0
	41.00000	-8.00000	19.50000	-0.42641	19.083	0.0	0.0
	42.00000	-8.00000	19.50000	-0.36243	19.083	0.0	0.0
	43.00000	-8.00000	19.50000	-0.30543	19.083	0.0	0.0
	44.00000	-8.00000	19.50000	-0.25498	19.083	0.0	0.0
	45.00000	-8.00000	19.50000	-0.21057	19.083	0.0	0.0
	46.00000	-8.00000	19.50000	-0.17166	19.083	0.0	0.0
	47.00000	-8.00000	19.50000	-0.13770	19.083	0.0	0.0
	48.00000	-8.00000	19.50000	-0.10819	19.083	0.0	0.0
	49.00000	-8.00000	19.50000	-0.082617	19.083	0.0	0.0
	50.00000	-8.00000	19.50000	-0.060543	19.083	0.0	0.0
	51.00000	-8.00000	19.50000	-0.041550	19.083	0.0	0.0
	52.00000	-8.00000	19.50000	-0.025263	19.083	0.0	0.0
	53.00000	-8.00000	19.50000	-0.011347	19.083	0.0	0.0
	54.00000	-8.00000	19.50000	497.02E-6	19.083	0.0	0.0
	55.00000	-8.00000	19.50000	0.010534	19.083	0.0	0.0
	-25.00000	-7.00000	19.50000	0.017611	19.083	0.0	0.0
	-24.00000	-7.00000	19.50000	0.010010	19.083	0.0	0.0
	-23.00000	-7.00000	19.50000	0.0010168	19.083	0.0	0.0
	-22.00000	-7.00000	19.50000	-0.0095764	19.083	0.0	0.0
	-21.00000	-7.00000	19.50000	-0.022008	19.083	0.0	0.0
	-20.00000	-7.00000	19.50000	-0.036548	19.083	0.0	0.0
	-19.00000	-7.00000	19.50000	-0.053506	19.083	0.0	0.0
	-18.00000	-7.00000	19.50000	-0.073230	19.083	0.0	0.0
	-17.00000	-7.00000	19.50000	-0.096118	19.083	0.0	0.0
	-16.00000	-7.00000	19.50000	-0.12261	19.083	0.0	0.0
	-15.00000	-7.00000	19.50000	-0.15322	19.083	0.0	0.0
	-14.00000	-7.00000	19.50000	-0.18848	19.083	0.0	0.0
	-13.00000	-7.00000	19.50000	-0.22903	19.083	0.0	0.0
	-12.00000	-7.00000	19.50000	-0.27553	19.083	0.0	0.0
	-11.00000	-7.00000	19.50000	-0.32871	19.083	0.0	0.0
	-10.00000	-7.00000	19.50000	-0.38933	19.083	0.0	0.0
	-9.00000	-7.00000	19.50000	-0.45818	19.083	0.0	0.0
	-8.00000	-7.00000	19.50000	-0.53600	19.083	0.0	0.0
	-7.00000	-7.00000	19.50000	-0.62348	19.083	0.0	0.0
	-6.00000	-7.00000	19.50000	-0.72114	19.083	0.0	0.0
	-5.00000	-7.00000	19.50000	-0.82921	19.083	0.0	0.0
	-4.00000	-7.00000	19.50000	-0.94749	19.083	0.0	0.0
	-3.00000	-7.00000	19.50000	-1.0752	19.083	0.0	0.0
	-2.00000	-7.00000	19.50000	-1.2109	19.083	0.0	0.0
	-1.00000	-7.00000	19.50000	-1.3522	19.083	0.0	0.0
	0.00000	-7.00000	19.50000	-1.4962	19.083	0.0	0.0
	1.00000	-7.00000	19.50000	-1.6394	19.083	0.0	0.0
	2.00000	-7.00000	19.50000	-1.7786	19.083	0.0	0.0
	3.00000	-7.00000	19.50000	-1.9106	19.083	0.0	0.0
	4.00000	-7.00000	19.50000	-2.0331	19.083	0.0	0.0
	5.00000	-7.00000	19.50000	-2.1445	19.083	0.0	0.0
	6.00000	-7.00000	19.50000	-2.2440	19.083	0.0	0.0
	7.00000	-7.00000	19.50000	-2.3313	19.083	0.0	0.0
	8.00000	-7.00000	19.50000	-2.4064	19.083	0.0	0.0
	9.00000	-7.00000	19.50000	-2.4698	19.083	0.0	0.0
	10.00000	-7.00000	19.50000	-2.5219	19.083	0.0	0.0
	11.00000	-7.00000	19.50000	-2.5632	19.083	0.0	0.0
	12.00000	-7.00000	19.50000	-2.5944	19.083	0.0	0.0
	13.00000	-7.00000	19.50000	-2.6160	19.083	0.0	0.0
	14.00000	-7.00000	19.50000	-2.6285	19.083	0.0	0.0
	15.00000	-7.00000	19.50000	-2.6323	19.083	0.0	0.0
	16.00000	-7.00000	19.50000	-2.6279	19.083	0.0	0.0
	17.00000	-7.00000	19.50000	-2.6156	19.083	0.0	0.0
	18.00000	-7.00000	19.50000	-2.5957	19.083	0.0	0.0
	19.00000	-7.00000	19.50000	-2.5685	19.083	0.0	0.0
	20.00000	-7.00000	19.50000	-2.5343	19.083	0.0	0.0
	21.00000	-7.00000	19.50000	-2.4932	19.083	0.0	0.0
	22.00000	-7.00000	19.50000	-2.4454	19.083	0.0	0.0
	23.00000	-7.00000	19.50000	-2.3907	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	24.00000	-7.00000	19.50000	-2.3290	19.083	0.0	0.0
	25.00000	-7.00000	19.50000	-2.2600	19.083	0.0	0.0
	26.00000	-7.00000	19.50000	-2.1832	19.083	0.0	0.0
	27.00000	-7.00000	19.50000	-2.0982	19.083	0.0	0.0
	28.00000	-7.00000	19.50000	-2.0047	19.083	0.0	0.0
	29.00000	-7.00000	19.50000	-1.9025	19.083	0.0	0.0
	30.00000	-7.00000	19.50000	-1.7916	19.083	0.0	0.0
	31.00000	-7.00000	19.50000	-1.6727	19.083	0.0	0.0
	32.00000	-7.00000	19.50000	-1.5471	19.083	0.0	0.0
	33.00000	-7.00000	19.50000	-1.4167	19.083	0.0	0.0
	34.00000	-7.00000	19.50000	-1.2841	19.083	0.0	0.0
	35.00000	-7.00000	19.50000	-1.1521	19.083	0.0	0.0
	36.00000	-7.00000	19.50000	-1.0236	19.083	0.0	0.0
	37.00000	-7.00000	19.50000	-0.90122	19.083	0.0	0.0
	38.00000	-7.00000	19.50000	-0.78685	19.083	0.0	0.0
	39.00000	-7.00000	19.50000	-0.68168	19.083	0.0	0.0
	40.00000	-7.00000	19.50000	-0.58627	19.083	0.0	0.0
	41.00000	-7.00000	19.50000	-0.50064	19.083	0.0	0.0
	42.00000	-7.00000	19.50000	-0.42447	19.083	0.0	0.0
	43.00000	-7.00000	19.50000	-0.35720	19.083	0.0	0.0
	44.00000	-7.00000	19.50000	-0.29811	19.083	0.0	0.0
	45.00000	-7.00000	19.50000	-0.24647	19.083	0.0	0.0
	46.00000	-7.00000	19.50000	-0.20152	19.083	0.0	0.0
	47.00000	-7.00000	19.50000	-0.16252	19.083	0.0	0.0
	48.00000	-7.00000	19.50000	-0.12879	19.083	0.0	0.0
	49.00000	-7.00000	19.50000	-0.099714	19.083	0.0	0.0
	50.00000	-7.00000	19.50000	-0.074711	19.083	0.0	0.0
	51.00000	-7.00000	19.50000	-0.053274	19.083	0.0	0.0
	52.00000	-7.00000	19.50000	-0.034948	19.083	0.0	0.0
	53.00000	-7.00000	19.50000	-0.019331	19.083	0.0	0.0
	54.00000	-7.00000	19.50000	-0.0060670	19.083	0.0	0.0
	55.00000	-7.00000	19.50000	0.0051550	19.083	0.0	0.0
	-25.00000	-6.00000	19.50000	0.014075	19.083	0.0	0.0
	-24.00000	-6.00000	19.50000	0.0057064	19.083	0.0	0.0
	-23.00000	-6.00000	19.50000	-0.0042007	19.083	0.0	0.0
	-22.00000	-6.00000	19.50000	-0.015884	19.083	0.0	0.0
	-21.00000	-6.00000	19.50000	-0.029614	19.083	0.0	0.0
	-20.00000	-6.00000	19.50000	-0.045704	19.083	0.0	0.0
	-19.00000	-6.00000	19.50000	-0.064511	19.083	0.0	0.0
	-18.00000	-6.00000	19.50000	-0.086445	19.083	0.0	0.0
	-17.00000	-6.00000	19.50000	-0.111977	19.083	0.0	0.0
	-16.00000	-6.00000	19.50000	-0.14162	19.083	0.0	0.0
	-15.00000	-6.00000	19.50000	-0.17601	19.083	0.0	0.0
	-14.00000	-6.00000	19.50000	-0.21581	19.083	0.0	0.0
	-13.00000	-6.00000	19.50000	-0.26179	19.083	0.0	0.0
	-12.00000	-6.00000	19.50000	-0.31481	19.083	0.0	0.0
	-11.00000	-6.00000	19.50000	-0.37582	19.083	0.0	0.0
	-10.00000	-6.00000	19.50000	-0.44585	19.083	0.0	0.0
	-9.00000	-6.00000	19.50000	-0.52599	19.083	0.0	0.0
	-8.00000	-6.00000	19.50000	-0.61737	19.083	0.0	0.0
	-7.00000	-6.00000	19.50000	-0.72108	19.083	0.0	0.0
	-6.00000	-6.00000	19.50000	-0.83807	19.083	0.0	0.0
	-5.00000	-6.00000	19.50000	-0.96900	19.083	0.0	0.0
	-4.00000	-6.00000	19.50000	-1.1140	19.083	0.0	0.0
	-3.00000	-6.00000	19.50000	-1.2724	19.083	0.0	0.0
	-2.00000	-6.00000	19.50000	-1.4425	19.083	0.0	0.0
	-1.00000	-6.00000	19.50000	-1.6211	19.083	0.0	0.0
	0.00000	-6.00000	19.50000	-1.8041	19.083	0.0	0.0
	1.00000	-6.00000	19.50000	-1.9862	19.083	0.0	0.0
	2.00000	-6.00000	19.50000	-2.1624	19.083	0.0	0.0
	3.00000	-6.00000	19.50000	-2.3284	19.083	0.0	0.0
	4.00000	-6.00000	19.50000	-2.4811	19.083	0.0	0.0
	5.00000	-6.00000	19.50000	-2.6185	19.083	0.0	0.0
	6.00000	-6.00000	19.50000	-2.7399	19.083	0.0	0.0
	7.00000	-6.00000	19.50000	-2.8454	19.083	0.0	0.0
	8.00000	-6.00000	19.50000	-2.9354	19.083	0.0	0.0
	9.00000	-6.00000	19.50000	-3.0106	19.083	0.0	0.0
	10.00000	-6.00000	19.50000	-3.0719	19.083	0.0	0.0
	11.00000	-6.00000	19.50000	-3.1203	19.083	0.0	0.0
	12.00000	-6.00000	19.50000	-3.1565	19.083	0.0	0.0
	13.00000	-6.00000	19.50000	-3.1814	19.083	0.0	0.0
	14.00000	-6.00000	19.50000	-3.1955	19.083	0.0	0.0
	15.00000	-6.00000	19.50000	-3.1994	19.083	0.0	0.0
	16.00000	-6.00000	19.50000	-3.1936	19.083	0.0	0.0
	17.00000	-6.00000	19.50000	-3.1786	19.083	0.0	0.0
	18.00000	-6.00000	19.50000	-3.1547	19.083	0.0	0.0
	19.00000	-6.00000	19.50000	-3.1223	19.083	0.0	0.0
	20.00000	-6.00000	19.50000	-3.0818	19.083	0.0	0.0
	21.00000	-6.00000	19.50000	-3.0333	19.083	0.0	0.0
	22.00000	-6.00000	19.50000	-2.9770	19.083	0.0	0.0
	23.00000	-6.00000	19.50000	-2.9127	19.083	0.0	0.0
	24.00000	-6.00000	19.50000	-2.8402	19.083	0.0	0.0
	25.00000	-6.00000	19.50000	-2.7589	19.083	0.0	0.0
	26.00000	-6.00000	19.50000	-2.6681	19.083	0.0	0.0
	27.00000	-6.00000	19.50000	-2.5670	19.083	0.0	0.0
	28.00000	-6.00000	19.50000	-2.4547	19.083	0.0	0.0
	29.00000	-6.00000	19.50000	-2.3308	19.083	0.0	0.0
	30.00000	-6.00000	19.50000	-2.1949	19.083	0.0	0.0
	31.00000	-6.00000	19.50000	-2.0476	19.083	0.0	0.0
	32.00000	-6.00000	19.50000	-1.8903	19.083	0.0	0.0
	33.00000	-6.00000	19.50000	-1.7255	19.083	0.0	0.0
	34.00000	-6.00000	19.50000	-1.5572	19.083	0.0	0.0
	35.00000	-6.00000	19.50000	-1.3895	19.083	0.0	0.0
	36.00000	-6.00000	19.50000	-1.2271	19.083	0.0	0.0
	37.00000	-6.00000	19.50000	-1.0735	19.083	0.0	0.0
	38.00000	-6.00000	19.50000	-0.93148	19.083	0.0	0.0
	39.00000	-6.00000	19.50000	-0.80234	19.083	0.0	0.0
	40.00000	-6.00000	19.50000	-0.68654	19.083	0.0	0.0
	41.00000	-6.00000	19.50000	-0.58377	19.083	0.0	0.0
	42.00000	-6.00000	19.50000	-0.49330	19.083	0.0	0.0
	43.00000	-6.00000	19.50000	-0.41414	19.083	0.0	0.0
	44.00000	-6.00000	19.50000	-0.34522	19.083	0.0	0.0
	45.00000	-6.00000	19.50000	-0.28543	19.083	0.0	0.0
	46.00000	-6.00000	19.50000	-0.23374	19.083	0.0	0.0
	47.00000	-6.00000	19.50000	-0.18917	19.083	0.0	0.0
	48.00000	-6.00000	19.50000	-0.15083	19.083	0.0	0.0
	49.00000	-6.00000	19.50000	-0.11793	19.083	0.0	0.0
	50.00000	-6.00000	19.50000	-0.089755	19.083	0.0	0.0
	51.00000	-6.00000	19.50000	-0.065689	19.083	0.0	0.0
	52.00000	-6.00000	19.50000	-0.045181	19.083	0.0	0.0
	53.00000	-6.00000	19.50000	-0.027750	19.083	0.0	0.0
	54.00000	-6.00000	19.50000	-0.012979	19.083	0.0	0.0
	55.00000	-6.00000	19.50000	-503.54E-6	19.083	0.0	0.0
	-25.00000	-5.00000	19.50000	0.010417	19.083	0.0	0.0
	-24.00000	-5.00000	19.50000	0.0012538	19.083	0.0	0.0
	-23.00000	-5.00000	19.50000	-0.0096022	19.083	0.0	0.0
	-22.00000	-5.00000	19.50000	-0.022419	19.083	0.0	0.0
	-21.00000	-5.00000	19.50000	-0.037505	19.083	0.0	0.0
	-20.00000	-5.00000	19.50000	-0.055218	19.083	0.0	0.0
	-19.00000	-5.00000	19.50000	-0.075968	19.083	0.0	0.0
	-18.00000	-5.00000	19.50000	-0.10023	19.083	0.0	0.0
	-17.00000	-5.00000	19.50000	-0.12855	19.083	0.0	0.0
	-16.00000	-5.00000	19.50000	-0.16156	19.083	0.0	0.0
	-15.00000	-5.00000	19.50000	-0.19999	19.083	0.0	0.0
	-14.00000	-5.00000	19.50000	-0.24466	19.083	0.0	0.0
	-13.00000	-5.00000	19.50000	-0.29652	19.083	0.0	0.0
	-12.00000	-5.00000	19.50000	-0.35666	19.083	0.0	0.0
	-11.00000	-5.00000	19.50000	-0.42629	19.083	0.0	0.0
	-10.00000	-5.00000	19.50000	-0.50678	19.083	0.0	0.0
	-9.00000	-5.00000	19.50000	-0.59964	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-8.00000	-5.00000	19.50000	-0.70649	19.083	0.0	0.0
	-7.00000	-5.00000	19.50000	-0.82901	19.083	0.0	0.0
	-6.00000	-5.00000	19.50000	-0.96885	19.083	0.0	0.0
	-5.00000	-5.00000	19.50000	-1.1274	19.083	0.0	0.0
	-4.00000	-5.00000	19.50000	-1.3055	19.083	0.0	0.0
	-3.00000	-5.00000	19.50000	-1.5030	19.083	0.0	0.0
	-2.00000	-5.00000	19.50000	-1.7180	19.083	0.0	0.0
	-1.00000	-5.00000	19.50000	-1.9466	19.083	0.0	0.0
	0.00000	-5.00000	19.50000	-2.1822	19.083	0.0	0.0
	1.00000	-5.00000	19.50000	-2.4169	19.083	0.0	0.0
	2.00000	-5.00000	19.50000	-2.6428	19.083	0.0	0.0
	3.00000	-5.00000	19.50000	-2.8533	19.083	0.0	0.0
	4.00000	-5.00000	19.50000	-3.0445	19.083	0.0	0.0
	5.00000	-5.00000	19.50000	-3.2142	19.083	0.0	0.0
	6.00000	-5.00000	19.50000	-3.3623	19.083	0.0	0.0
	7.00000	-5.00000	19.50000	-3.4894	19.083	0.0	0.0
	8.00000	-5.00000	19.50000	-3.5967	19.083	0.0	0.0
	9.00000	-5.00000	19.50000	-3.6856	19.083	0.0	0.0
	10.00000	-5.00000	19.50000	-3.7575	19.083	0.0	0.0
	11.00000	-5.00000	19.50000	-3.8138	19.083	0.0	0.0
	12.00000	-5.00000	19.50000	-3.8556	19.083	0.0	0.0
	13.00000	-5.00000	19.50000	-3.8839	19.083	0.0	0.0
	14.00000	-5.00000	19.50000	-3.8996	19.083	0.0	0.0
	15.00000	-5.00000	19.50000	-3.9034	19.083	0.0	0.0
	16.00000	-5.00000	19.50000	-3.8959	19.083	0.0	0.0
	17.00000	-5.00000	19.50000	-3.8776	19.083	0.0	0.0
	18.00000	-5.00000	19.50000	-3.8488	19.083	0.0	0.0
	19.00000	-5.00000	19.50000	-3.8101	19.083	0.0	0.0
	20.00000	-5.00000	19.50000	-3.7619	19.083	0.0	0.0
	21.00000	-5.00000	19.50000	-3.7046	19.083	0.0	0.0
	22.00000	-5.00000	19.50000	-3.6384	19.083	0.0	0.0
	23.00000	-5.00000	19.50000	-3.5630	19.083	0.0	0.0
	24.00000	-5.00000	19.50000	-3.4781	19.083	0.0	0.0
	25.00000	-5.00000	19.50000	-3.3827	19.083	0.0	0.0
	26.00000	-5.00000	19.50000	-3.2758	19.083	0.0	0.0
	27.00000	-5.00000	19.50000	-3.1558	19.083	0.0	0.0
	28.00000	-5.00000	19.50000	-3.0214	19.083	0.0	0.0
	29.00000	-5.00000	19.50000	-2.8713	19.083	0.0	0.0
	30.00000	-5.00000	19.50000	-2.7044	19.083	0.0	0.0
	31.00000	-5.00000	19.50000	-2.5208	19.083	0.0	0.0
	32.00000	-5.00000	19.50000	-2.3220	19.083	0.0	0.0
	33.00000	-5.00000	19.50000	-2.1113	19.083	0.0	0.0
	34.00000	-5.00000	19.50000	-1.8945	19.083	0.0	0.0
	35.00000	-5.00000	19.50000	-1.6785	19.083	0.0	0.0
	36.00000	-5.00000	19.50000	-1.4705	19.083	0.0	0.0
	37.00000	-5.00000	19.50000	-1.2760	19.083	0.0	0.0
	38.00000	-5.00000	19.50000	-1.0986	19.083	0.0	0.0
	39.00000	-5.00000	19.50000	-0.93967	19.083	0.0	0.0
	40.00000	-5.00000	19.50000	-0.79913	19.083	0.0	0.0
	41.00000	-5.00000	19.50000	-0.67603	19.083	0.0	0.0
	42.00000	-5.00000	19.50000	-0.56892	19.083	0.0	0.0
	43.00000	-5.00000	19.50000	-0.47618	19.083	0.0	0.0
	44.00000	-5.00000	19.50000	-0.39616	19.083	0.0	0.0
	45.00000	-5.00000	19.50000	-0.32730	19.083	0.0	0.0
	46.00000	-5.00000	19.50000	-0.26818	19.083	0.0	0.0
	47.00000	-5.00000	19.50000	-0.21751	19.083	0.0	0.0
	48.00000	-5.00000	19.50000	-0.17417	19.083	0.0	0.0
	49.00000	-5.00000	19.50000	-0.13715	19.083	0.0	0.0
	50.00000	-5.00000	19.50000	-0.10559	19.083	0.0	0.0
	51.00000	-5.00000	19.50000	-0.078720	19.083	0.0	0.0
	52.00000	-5.00000	19.50000	-0.05897	19.083	0.0	0.0
	53.00000	-5.00000	19.50000	-0.036551	19.083	0.0	0.0
	54.00000	-5.00000	19.50000	-0.020194	19.083	0.0	0.0
	55.00000	-5.00000	19.50000	-0.0064044	19.083	0.0	0.0
	-25.00000	-4.00000	19.50000	0.006637	19.083	0.0	0.0
	-24.00000	-4.00000	19.50000	0.0031151	19.083	0.0	0.0
	-23.00000	-4.00000	19.50000	-0.015148	19.083	0.0	0.0
	-22.00000	-4.00000	19.50000	-0.029135	19.083	0.0	0.0
	-21.00000	-4.00000	19.50000	-0.045624	19.083	0.0	0.0
	-20.00000	-4.00000	19.50000	-0.065019	19.083	0.0	0.0
	-19.00000	-4.00000	19.50000	-0.087791	19.083	0.0	0.0
	-18.00000	-4.00000	19.50000	-0.11449	19.083	0.0	0.0
	-17.00000	-4.00000	19.50000	-0.14574	19.083	0.0	0.0
	-16.00000	-4.00000	19.50000	-0.18228	19.083	0.0	0.0
	-15.00000	-4.00000	19.50000	-0.22498	19.083	0.0	0.0
	-14.00000	-4.00000	19.50000	-0.27483	19.083	0.0	0.0
	-13.00000	-4.00000	19.50000	-0.33299	19.083	0.0	0.0
	-12.00000	-4.00000	19.50000	-0.40079	19.083	0.0	0.0
	-11.00000	-4.00000	19.50000	-0.47979	19.083	0.0	0.0
	-10.00000	-4.00000	19.50000	-0.57175	19.083	0.0	0.0
	-9.00000	-4.00000	19.50000	-0.67873	19.083	0.0	0.0
	-8.00000	-4.00000	19.50000	-0.80299	19.083	0.0	0.0
	-7.00000	-4.00000	19.50000	-0.94705	19.083	0.0	0.0
	-6.00000	-4.00000	19.50000	-1.1136	19.083	0.0	0.0
	-5.00000	-4.00000	19.50000	-1.3053	19.083	0.0	0.0
	-4.00000	-4.00000	19.50000	-1.5242	19.083	0.0	0.0
	-3.00000	-4.00000	19.50000	-1.7717	19.083	0.0	0.0
	-2.00000	-4.00000	19.50000	-2.0463	19.083	0.0	0.0
	-1.00000	-4.00000	19.50000	-2.3432	19.083	0.0	0.0
	0.00000	-4.00000	19.50000	-2.6526	19.083	0.0	0.0
	1.00000	-4.00000	19.50000	-2.9609	19.083	0.0	0.0
	2.00000	-4.00000	19.50000	-3.2549	19.083	0.0	0.0
	3.00000	-4.00000	19.50000	-3.5247	19.083	0.0	0.0
	4.00000	-4.00000	19.50000	-3.7651	19.083	0.0	0.0
	5.00000	-4.00000	19.50000	-3.9750	19.083	0.0	0.0
	6.00000	-4.00000	19.50000	-4.1551	19.083	0.0	0.0
	7.00000	-4.00000	19.50000	-4.3076	19.083	0.0	0.0
	8.00000	-4.00000	19.50000	-4.4349	19.083	0.0	0.0
	9.00000	-4.00000	19.50000	-4.5393	19.083	0.0	0.0
	10.00000	-4.00000	19.50000	-4.6230	19.083	0.0	0.0
	11.00000	-4.00000	19.50000	-4.6880	19.083	0.0	0.0
	12.00000	-4.00000	19.50000	-4.7359	19.083	0.0	0.0
	13.00000	-4.00000	19.50000	-4.7680	19.083	0.0	0.0
	14.00000	-4.00000	19.50000	-4.7854	19.083	0.0	0.0
	15.00000	-4.00000	19.50000	-4.7888	19.083	0.0	0.0
	16.00000	-4.00000	19.50000	-4.7791	19.083	0.0	0.0
	17.00000	-4.00000	19.50000	-4.7566	19.083	0.0	0.0
	18.00000	-4.00000	19.50000	-4.7218	19.083	0.0	0.0
	19.00000	-4.00000	19.50000	-4.6753	19.083	0.0	0.0
	20.00000	-4.00000	19.50000	-4.6177	19.083	0.0	0.0
	21.00000	-4.00000	19.50000	-4.5497	19.083	0.0	0.0
	22.00000	-4.00000	19.50000	-4.4717	19.083	0.0	0.0
	23.00000	-4.00000	19.50000	-4.3835	19.083	0.0	0.0
	24.00000	-4.00000	19.50000	-4.2844	19.083	0.0	0.0
	25.00000	-4.00000	19.50000	-4.1731	19.083	0.0	0.0
	26.00000	-4.00000	19.50000	-4.0478	19.083	0.0	0.0
	27.00000	-4.00000	19.50000	-3.9062	19.083	0.0	0.0
	28.00000	-4.00000	19.50000	-3.7460	19.083	0.0	0.0
	29.00000	-4.00000	19.50000	-3.5644	19.083	0.0	0.0
	30.00000	-4.00000	19.50000	-3.3593	19.083	0.0	0.0
	31.00000	-4.00000	19.50000	-3.1293	19.083	0.0	0.0
	32.00000	-4.00000	19.50000	-2.8753	19.083	0.0	0.0
	33.00000	-4.00000	19.50000	-2.6015	19.083	0.0	0.0
	34.00000	-4.00000	19.50000	-2.3167	19.083	0.0	0.0
	35.00000	-4.00000	19.50000	-2.0328	19.083	0.0	0.0
	36.00000	-4.00000	19.50000	-1.7621	19.083	0.0	0.0
	37.00000	-4.00000	19.50000	-1.5132	19.083	0.0	0.0
	38.00000	-4.00000	19.50000	-1.2904	19.083	0.0	0.0
	39.00000	-4.00000	19.50000	-1.0945	19.083	0.0	0.0
	40.00000	-4.00000	19.50000	-0.92422	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
41.00000	-4.00000	19.50000	-0.77729	19.083	0.0	0.0	0.0
42.00000	-4.00000	19.50000	-0.65109	19.083	0.0	0.0	0.0
43.00000	-4.00000	19.50000	-0.54301	19.083	0.0	0.0	0.0
44.00000	-4.00000	19.50000	-0.45064	19.083	0.0	0.0	0.0
45.00000	-4.00000	19.50000	-0.37181	19.083	0.0	0.0	0.0
46.00000	-4.00000	19.50000	-0.30460	19.083	0.0	0.0	0.0
47.00000	-4.00000	19.50000	-0.24736	19.083	0.0	0.0	0.0
48.00000	-4.00000	19.50000	-0.19866	19.083	0.0	0.0	0.0
49.00000	-4.00000	19.50000	-0.15725	19.083	0.0	0.0	0.0
50.00000	-4.00000	19.50000	-0.12209	19.083	0.0	0.0	0.0
51.00000	-4.00000	19.50000	-0.092271	19.083	0.0	0.0	0.0
52.00000	-4.00000	19.50000	-0.067018	19.083	0.0	0.0	0.0
53.00000	-4.00000	19.50000	-0.045669	19.083	0.0	0.0	0.0
54.00000	-4.00000	19.50000	-0.027659	19.083	0.0	0.0	0.0
55.00000	-4.00000	19.50000	-0.012503	19.083	0.0	0.0	0.0
-25.00000	-3.00000	19.50000	0.0028468	19.083	0.0	0.0	0.0
-24.00000	-3.00000	19.50000	-0.0079633	19.083	0.0	0.0	0.0
-23.00000	-3.00000	19.50000	-0.020793	19.083	0.0	0.0	0.0
-22.00000	-3.00000	19.50000	-0.035977	19.083	0.0	0.0	0.0
-21.00000	-3.00000	19.50000	-0.053904	19.083	0.0	0.0	0.0
-20.00000	-3.00000	19.50000	-0.075029	19.083	0.0	0.0	0.0
-19.00000	-3.00000	19.50000	-0.099885	19.083	0.0	0.0	0.0
-18.00000	-3.00000	19.50000	-0.12909	19.083	0.0	0.0	0.0
-17.00000	-3.00000	19.50000	-0.16338	19.083	0.0	0.0	0.0
-16.00000	-3.00000	19.50000	-0.20361	19.083	0.0	0.0	0.0
-15.00000	-3.00000	19.50000	-0.25078	19.083	0.0	0.0	0.0
-14.00000	-3.00000	19.50000	-0.30607	19.083	0.0	0.0	0.0
-13.00000	-3.00000	19.50000	-0.37087	19.083	0.0	0.0	0.0
-12.00000	-3.00000	19.50000	-0.44682	19.083	0.0	0.0	0.0
-11.00000	-3.00000	19.50000	-0.53584	19.083	0.0	0.0	0.0
-10.00000	-3.00000	19.50000	-0.64021	19.083	0.0	0.0	0.0
-9.00000	-3.00000	19.50000	-0.76259	19.083	0.0	0.0	0.0
-8.00000	-3.00000	19.50000	-0.90611	19.083	0.0	0.0	0.0
-7.00000	-3.00000	19.50000	-1.0744	19.083	0.0	0.0	0.0
-6.00000	-3.00000	19.50000	-1.2716	19.083	0.0	0.0	0.0
-5.00000	-3.00000	19.50000	-1.5023	19.083	0.0	0.0	0.0
-4.00000	-3.00000	19.50000	-1.7712	19.083	0.0	0.0	0.0
-3.00000	-3.00000	19.50000	-2.0824	19.083	0.0	0.0	0.0
-2.00000	-3.00000	19.50000	-2.4372	19.083	0.0	0.0	0.0
-1.00000	-3.00000	19.50000	-2.8311	19.083	0.0	0.0	0.0
0.00000	-3.00000	19.50000	-3.2491	19.083	0.0	0.0	0.0
1.00000	-3.00000	19.50000	-3.6660	19.083	0.0	0.0	0.0
2.00000	-3.00000	19.50000	-4.0567	19.083	0.0	0.0	0.0
3.00000	-3.00000	19.50000	-4.4063	19.083	0.0	0.0	0.0
4.00000	-3.00000	19.50000	-4.7098	19.083	0.0	0.0	0.0
5.00000	-3.00000	19.50000	-4.9687	19.083	0.0	0.0	0.0
6.00000	-3.00000	19.50000	-5.1869	19.083	0.0	0.0	0.0
7.00000	-3.00000	19.50000	-5.3687	19.083	0.0	0.0	0.0
8.00000	-3.00000	19.50000	-5.5185	19.083	0.0	0.0	0.0
9.00000	-3.00000	19.50000	-5.6402	19.083	0.0	0.0	0.0
10.00000	-3.00000	19.50000	-5.7369	19.083	0.0	0.0	0.0
11.00000	-3.00000	19.50000	-5.8114	19.083	0.0	0.0	0.0
12.00000	-3.00000	19.50000	-5.8658	19.083	0.0	0.0	0.0
13.00000	-3.00000	19.50000	-5.9019	19.083	0.0	0.0	0.0
14.00000	-3.00000	19.50000	-5.9208	19.083	0.0	0.0	0.0
15.00000	-3.00000	19.50000	-5.9237	19.083	0.0	0.0	0.0
16.00000	-3.00000	19.50000	-5.9111	19.083	0.0	0.0	0.0
17.00000	-3.00000	19.50000	-5.8834	19.083	0.0	0.0	0.0
18.00000	-3.00000	19.50000	-5.8411	19.083	0.0	0.0	0.0
19.00000	-3.00000	19.50000	-5.7847	19.083	0.0	0.0	0.0
20.00000	-3.00000	19.50000	-5.7150	19.083	0.0	0.0	0.0
21.00000	-3.00000	19.50000	-5.6335	19.083	0.0	0.0	0.0
22.00000	-3.00000	19.50000	-5.5413	19.083	0.0	0.0	0.0
23.00000	-3.00000	19.50000	-5.4382	19.083	0.0	0.0	0.0
24.00000	-3.00000	19.50000	-5.3231	19.083	0.0	0.0	0.0
25.00000	-3.00000	19.50000	-5.1940	19.083	0.0	0.0	0.0
26.00000	-3.00000	19.50000	-5.0482	19.083	0.0	0.0	0.0
27.00000	-3.00000	19.50000	-4.8822	19.083	0.0	0.0	0.0
28.00000	-3.00000	19.50000	-4.6922	19.083	0.0	0.0	0.0
29.00000	-3.00000	19.50000	-4.4736	19.083	0.0	0.0	0.0
30.00000	-3.00000	19.50000	-4.2218	19.083	0.0	0.0	0.0
31.00000	-3.00000	19.50000	-3.9326	19.083	0.0	0.0	0.0
32.00000	-3.00000	19.50000	-3.6043	19.083	0.0	0.0	0.0
33.00000	-3.00000	19.50000	-3.2407	19.083	0.0	0.0	0.0
34.00000	-3.00000	19.50000	-2.8555	19.083	0.0	0.0	0.0
35.00000	-3.00000	19.50000	-2.4714	19.083	0.0	0.0	0.0
36.00000	-3.00000	19.50000	-2.1113	19.083	0.0	0.0	0.0
37.00000	-3.00000	19.50000	-1.7889	19.083	0.0	0.0	0.0
38.00000	-3.00000	19.50000	-1.5079	19.083	0.0	0.0	0.0
39.00000	-3.00000	19.50000	-1.2667	19.083	0.0	0.0	0.0
40.00000	-3.00000	19.50000	-1.0613	19.083	0.0	0.0	0.0
41.00000	-3.00000	19.50000	-0.88687	19.083	0.0	0.0	0.0
42.00000	-3.00000	19.50000	-0.73914	19.083	0.0	0.0	0.0
43.00000	-3.00000	19.50000	-0.61406	19.083	0.0	0.0	0.0
44.00000	-3.00000	19.50000	-0.50818	19.083	0.0	0.0	0.0
45.00000	-3.00000	19.50000	-0.41856	19.083	0.0	0.0	0.0
46.00000	-3.00000	19.50000	-0.34268	19.083	0.0	0.0	0.0
47.00000	-3.00000	19.50000	-0.27844	19.083	0.0	0.0	0.0
48.00000	-3.00000	19.50000	-0.22406	19.083	0.0	0.0	0.0
49.00000	-3.00000	19.50000	-0.17805	19.083	0.0	0.0	0.0
50.00000	-3.00000	19.50000	-0.13912	19.083	0.0	0.0	0.0
51.00000	-3.00000	19.50000	-0.10622	19.083	0.0	0.0	0.0
52.00000	-3.00000	19.50000	-0.078447	19.083	0.0	0.0	0.0
53.00000	-3.00000	19.50000	-0.055025	19.083	0.0	0.0	0.0
54.00000	-3.00000	19.50000	-0.035309	19.083	0.0	0.0	0.0
55.00000	-3.00000	19.50000	-0.018748	19.083	0.0	0.0	0.0
-25.00000	-2.00000	19.50000	-0.0010008	19.083	0.0	0.0	0.0
-24.00000	-2.00000	19.50000	-0.012650	19.083	0.0	0.0	0.0
-23.00000	-2.00000	19.50000	-0.026489	19.083	0.0	0.0	0.0
-22.00000	-2.00000	19.50000	-0.042885	19.083	0.0	0.0	0.0
-21.00000	-2.00000	19.50000	-0.062272	19.083	0.0	0.0	0.0
-20.00000	-2.00000	19.50000	-0.085157	19.083	0.0	0.0	0.0
-19.00000	-2.00000	19.50000	-0.11214	19.083	0.0	0.0	0.0
-18.00000	-2.00000	19.50000	-0.14392	19.083	0.0	0.0	0.0
-17.00000	-2.00000	19.50000	-0.18132	19.083	0.0	0.0	0.0
-16.00000	-2.00000	19.50000	-0.22513	19.083	0.0	0.0	0.0
-15.00000	-2.00000	19.50000	-0.27712	19.083	0.0	0.0	0.0
-14.00000	-2.00000	19.50000	-0.33805	19.083	0.0	0.0	0.0
-13.00000	-2.00000	19.50000	-0.40977	19.083	0.0	0.0	0.0
-12.00000	-2.00000	19.50000	-0.49424	19.083	0.0	0.0	0.0
-11.00000	-2.00000	19.50000	-0.59383	19.083	0.0	0.0	0.0
-10.00000	-2.00000	19.50000	-0.71135	19.083	0.0	0.0	0.0
-9.00000	-2.00000	19.50000	-0.85023	19.083	0.0	0.0	0.0
-8.00000	-2.00000	19.50000	-1.0146	19.083	0.0	0.0	0.0
-7.00000	-2.00000	19.50000	-1.2095	19.083	0.0	0.0	0.0
-6.00000	-2.00000	19.50000	-1.4411	19.083	0.0	0.0	0.0
-5.00000	-2.00000	19.50000	-1.7167	19.083	0.0	0.0	0.0
-4.00000	-2.00000	19.50000	-2.0452	19.083	0.0	0.0	0.0
-3.00000	-2.00000	19.50000	-2.4365	19.083	0.0	0.0	0.0
-2.00000	-2.00000	19.50000	-2.9000	19.083	0.0	0.0	0.0
-1.00000	-2.00000	19.50000	-3.4381	19.083	0.0	0.0	0.0
0.00000	-2.00000	19.50000	-4.0298	19.083	0.0	0.0	0.0
1.00000	-2.00000	19.50000	-4.6205	19.083	0.0	0.0	0.0
2.00000	-2.00000	19.50000	-5.1551	19.083	0.0	0.0	0.0
3.00000	-2.00000	19.50000	-5.6128	19.083	0.0	0.0	0.0
4.00000	-2.00000	19.50000	-6.0959	19.083	0.0	0.0	0.0
5.00000	-2.00000	19.50000	-6.5136	19.083	0.0	0.0	0.0
6.00000	-2.00000	19.50000	-6.8755	19.083	0.0	0.0	0.0
7.00000	-2.00000	19.50000	-7.1904	19.083	0.0	0.0	0.0
8.00000	-2.00000	19.50000	-7.4651	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	9.00000	-2.00000	19.50000	-7.1056	19.083	0.0	0.0
	10.0000	-2.00000	19.50000	-7.2163	19.083	0.0	0.0
	11.00000	-2.00000	19.50000	-7.3010	19.083	0.0	0.0
	12.00000	-2.00000	19.50000	-7.3623	19.083	0.0	0.0
	13.00000	-2.00000	19.50000	-7.4024	19.083	0.0	0.0
	14.0000	-2.00000	19.50000	-7.4229	19.083	0.0	0.0
	15.00000	-2.00000	19.50000	-7.4248	19.083	0.0	0.0
	16.00000	-2.00000	19.50000	-7.4087	19.083	0.0	0.0
	17.00000	-2.00000	19.50000	-7.3748	19.083	0.0	0.0
	18.00000	-2.00000	19.50000	-7.3229	19.083	0.0	0.0
	19.00000	-2.00000	19.50000	-7.2530	19.083	0.0	0.0
	20.00000	-2.00000	19.50000	-7.1665	19.083	0.0	0.0
	21.00000	-2.00000	19.50000	-7.0666	19.083	0.0	0.0
	22.00000	-2.00000	19.50000	-6.9564	19.083	0.0	0.0
	23.00000	-2.00000	19.50000	-6.8359	19.083	0.0	0.0
	24.00000	-2.00000	19.50000	-6.7030	19.083	0.0	0.0
	25.00000	-2.00000	19.50000	-6.5544	19.083	0.0	0.0
	26.00000	-2.00000	19.50000	-6.3862	19.083	0.0	0.0
	27.00000	-2.00000	19.50000	-6.1933	19.083	0.0	0.0
	28.00000	-2.00000	19.50000	-5.9699	19.083	0.0	0.0
	29.00000	-2.00000	19.50000	-5.7087	19.083	0.0	0.0
	30.00000	-2.00000	19.50000	-5.4011	19.083	0.0	0.0
	31.00000	-2.00000	19.50000	-5.0374	19.083	0.0	0.0
	32.00000	-2.00000	19.50000	-4.6083	19.083	0.0	0.0
	33.00000	-2.00000	19.50000	-4.1112	19.083	0.0	0.0
	34.00000	-2.00000	19.50000	-3.5650	19.083	0.0	0.0
	35.00000	-2.00000	19.50000	-3.0201	19.083	0.0	0.0
	36.00000	-2.00000	19.50000	-2.5270	19.083	0.0	0.0
	37.00000	-2.00000	19.50000	-2.1046	19.083	0.0	0.0
	38.00000	-2.00000	19.50000	-1.7502	19.083	0.0	0.0
	39.00000	-2.00000	19.50000	-1.4547	19.083	0.0	0.0
	40.00000	-2.00000	19.50000	-1.2087	19.083	0.0	0.0
	41.00000	-2.00000	19.50000	-1.0034	19.083	0.0	0.0
	42.00000	-2.00000	19.50000	-0.83199	19.083	0.0	0.0
	43.00000	-2.00000	19.50000	-0.68847	19.083	0.0	0.0
	44.00000	-2.00000	19.50000	-0.56811	19.083	0.0	0.0
	45.00000	-2.00000	19.50000	-0.46701	19.083	0.0	0.0
	46.00000	-2.00000	19.50000	-0.38199	19.083	0.0	0.0
	47.00000	-2.00000	19.50000	-0.31042	19.083	0.0	0.0
	48.00000	-2.00000	19.50000	-0.25013	19.083	0.0	0.0
	49.00000	-2.00000	19.50000	-0.19922	19.083	0.0	0.0
	50.00000	-2.00000	19.50000	-0.15651	19.083	0.0	0.0
	51.00000	-2.00000	19.50000	-0.12044	19.083	0.0	0.0
	52.00000	-2.00000	19.50000	-0.090077	19.083	0.0	0.0
	53.00000	-2.00000	19.50000	-0.064533	19.083	0.0	0.0
	54.00000	-2.00000	19.50000	-0.040705	19.083	0.0	0.0
	55.00000	-2.00000	19.50000	-0.025081	19.083	0.0	0.0
	-25.00000	-1.00000	19.50000	-0.0048432	19.083	0.0	0.0
	-24.00000	-1.00000	19.50000	-0.017332	19.083	0.0	0.0
	-23.00000	-1.00000	19.50000	-0.032180	19.083	0.0	0.0
	-22.00000	-1.00000	19.50000	-0.049793	19.083	0.0	0.0
	-21.00000	-1.00000	19.50000	-0.070647	19.083	0.0	0.0
	-20.00000	-1.00000	19.50000	-0.095305	19.083	0.0	0.0
	-19.00000	-1.00000	19.50000	-0.12443	19.083	0.0	0.0
	-18.00000	-1.00000	19.50000	-0.15880	19.083	0.0	0.0
	-17.00000	-1.00000	19.50000	-0.19937	19.083	0.0	0.0
	-16.00000	-1.00000	19.50000	-0.24723	19.083	0.0	0.0
	-15.00000	-1.00000	19.50000	-0.30371	19.083	0.0	0.0
	-14.00000	-1.00000	19.50000	-0.37040	19.083	0.0	0.0
	-13.00000	-1.00000	19.50000	-0.44921	19.083	0.0	0.0
	-12.00000	-1.00000	19.50000	-0.54246	19.083	0.0	0.0
	-11.00000	-1.00000	19.50000	-0.65296	19.083	0.0	0.0
	-10.00000	-1.00000	19.50000	-0.78417	19.083	0.0	0.0
	-9.00000	-1.00000	19.50000	-0.94032	19.083	0.0	0.0
	-8.00000	-1.00000	19.50000	-1.1267	19.083	0.0	0.0
	-7.00000	-1.00000	19.50000	-1.3501	19.083	0.0	0.0
	-6.00000	-1.00000	19.50000	-1.6189	19.083	0.0	0.0
	-5.00000	-1.00000	19.50000	-1.9444	19.083	0.0	0.0
	-4.00000	-1.00000	19.50000	-2.3412	19.083	0.0	0.0
	-3.00000	-1.00000	19.50000	-2.8295	19.083	0.0	0.0
	-2.00000	-1.00000	19.50000	-3.4371	19.083	0.0	0.0
	-1.00000	-1.00000	19.50000	-4.1982	19.083	0.0	0.0
	0.00000	-1.00000	19.50000	-5.1144	19.083	0.0	0.0
	1.00000	-1.00000	19.50000	-6.0294	19.083	0.0	0.0
	2.00000	-1.00000	19.50000	-6.7869	19.083	0.0	0.0
	3.00000	-1.00000	19.50000	-7.3882	19.083	0.0	0.0
	4.00000	-1.00000	19.50000	-7.8677	19.083	0.0	0.0
	5.00000	-1.00000	19.50000	-8.2528	19.083	0.0	0.0
	6.00000	-1.00000	19.50000	-8.5635	19.083	0.0	0.0
	7.00000	-1.00000	19.50000	-8.8142	19.083	0.0	0.0
	8.00000	-1.00000	19.50000	-9.0157	19.083	0.0	0.0
	9.00000	-1.00000	19.50000	-9.1761	19.083	0.0	0.0
	10.00000	-1.00000	19.50000	-9.3016	19.083	0.0	0.0
	11.00000	-1.00000	19.50000	-9.3968	19.083	0.0	0.0
	12.00000	-1.00000	19.50000	-9.4652	19.083	0.0	0.0
	13.00000	-1.00000	19.50000	-9.5095	19.083	0.0	0.0
	14.00000	-1.00000	19.50000	-9.5315	19.083	0.0	0.0
	15.00000	-1.00000	19.50000	-9.5322	19.083	0.0	0.0
	16.00000	-1.00000	19.50000	-9.5120	19.083	0.0	0.0
	17.00000	-1.00000	19.50000	-9.4706	19.083	0.0	0.0
	18.00000	-1.00000	19.50000	-9.4066	19.083	0.0	0.0
	19.00000	-1.00000	19.50000	-9.3177	19.083	0.0	0.0
	20.00000	-1.00000	19.50000	-9.2046	19.083	0.0	0.0
	21.00000	-1.00000	19.50000	-9.0767	19.083	0.0	0.0
	22.00000	-1.00000	19.50000	-8.9428	19.083	0.0	0.0
	23.00000	-1.00000	19.50000	-8.8020	19.083	0.0	0.0
	24.00000	-1.00000	19.50000	-8.6496	19.083	0.0	0.0
	25.00000	-1.00000	19.50000	-8.4802	19.083	0.0	0.0
	26.00000	-1.00000	19.50000	-8.2881	19.083	0.0	0.0
	27.00000	-1.00000	19.50000	-8.0665	19.083	0.0	0.0
	28.00000	-1.00000	19.50000	-7.8069	19.083	0.0	0.0
	29.00000	-1.00000	19.50000	-7.4985	19.083	0.0	0.0
	30.00000	-1.00000	19.50000	-7.1269	19.083	0.0	0.0
	31.00000	-1.00000	19.50000	-6.6729	19.083	0.0	0.0
	32.00000	-1.00000	19.50000	-6.1102	19.083	0.0	0.0
	33.00000	-1.00000	19.50000	-5.4061	19.083	0.0	0.0
	34.00000	-1.00000	19.50000	-4.5578	19.083	0.0	0.0
	35.00000	-1.00000	19.50000	-3.7110	19.083	0.0	0.0
	36.00000	-1.00000	19.50000	-3.0114	19.083	0.0	0.0
	37.00000	-1.00000	19.50000	-2.4561	19.083	0.0	0.0
	38.00000	-1.00000	19.50000	-2.0126	19.083	0.0	0.0
	39.00000	-1.00000	19.50000	-1.6549	19.083	0.0	0.0
	40.00000	-1.00000	19.50000	-1.3637	19.083	0.0	0.0
	41.00000	-1.00000	19.50000	-1.1250	19.083	0.0	0.0
	42.00000	-1.00000	19.50000	-0.92813	19.083	0.0	0.0
	43.00000	-1.00000	19.50000	-0.76510	19.083	0.0	0.0
	44.00000	-1.00000	19.50000	-0.62955	19.083	0.0	0.0
	45.00000	-1.00000	19.50000	-0.51651	19.083	0.0	0.0
	46.00000	-1.00000	19.50000	-0.42202	19.083	0.0	0.0
	47.00000	-1.00000	19.50000	-0.34290	19.083	0.0	0.0
	48.00000	-1.00000	19.50000	-0.27654	19.083	0.0	0.0
	49.00000	-1.00000	19.50000	-0.22084	19.083	0.0	0.0
	50.00000	-1.00000	19.50000	-0.17407	19.083	0.0	0.0
	51.00000	-1.00000	19.50000	-0.13478	19.083	0.0	0.0
	52.00000	-1.00000	19.50000	-0.10178	19.083	0.0	0.0
	53.00000	-1.00000	19.50000	-0.074093	19.083	0.0	0.0
	54.00000	-1.00000	19.50000	-0.050876	19.083	0.0	0.0
	55.00000	-1.00000	19.50000	-0.031439	19.083	0.0	0.0
	-25.00000	0.00000	19.50000	-0.0086431	19.083	0.0	0.0
	-24.00000	0.00000	19.50000	-0.021963	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-23.00000	0.00000	19.50000	-0.037813	19.083	0.0	0.0
	-22.00000	0.00000	19.50000	-0.056633	19.083	0.0	0.0
	-21.00000	0.00000	19.50000	-0.078946	19.083	0.0	0.0
	-20.00000	0.00000	19.50000	-0.10537	19.083	0.0	0.0
	-19.00000	0.00000	19.50000	-0.13663	19.083	0.0	0.0
	-18.00000	0.00000	19.50000	-0.17360	19.083	0.0	0.0
	-17.00000	0.00000	19.50000	-0.21732	19.083	0.0	0.0
	-16.00000	0.00000	19.50000	-0.26903	19.083	0.0	0.0
	-15.00000	0.00000	19.50000	-0.33023	19.083	0.0	0.0
	-14.00000	0.00000	19.50000	-0.40271	19.083	0.0	0.0
	-13.00000	0.00000	19.50000	-0.48868	19.083	0.0	0.0
	-12.00000	0.00000	19.50000	-0.59080	19.083	0.0	0.0
	-11.00000	0.00000	19.50000	-0.71238	19.083	0.0	0.0
	-10.00000	0.00000	19.50000	-0.85750	19.083	0.0	0.0
	-9.00000	0.00000	19.50000	-1.0313	19.083	0.0	0.0
	-8.00000	0.00000	19.50000	-1.2403	19.083	0.0	0.0
	-7.00000	0.00000	19.50000	-1.4931	19.083	0.0	0.0
	-6.00000	0.00000	19.50000	-1.8008	19.083	0.0	0.0
	-5.00000	0.00000	19.50000	-2.1788	19.083	0.0	0.0
	-4.00000	0.00000	19.50000	-2.6493	19.083	0.0	0.0
	-3.00000	0.00000	19.50000	-3.2461	19.083	0.0	0.0
	-2.00000	0.00000	19.50000	-4.0275	19.083	0.0	0.0
	-1.00000	0.00000	19.50000	-5.1131	19.083	0.0	0.0
	0.00000	0.00000	19.50000	-6.8344	19.083	0.0	0.0
	1.00000	0.00000	19.50000	-8.5544	19.083	0.0	0.0
	2.00000	0.00000	19.50000	-9.6360	19.083	0.0	0.0
	3.00000	0.00000	19.50000	-10.411	19.083	0.0	0.0
	4.00000	0.00000	19.50000	-10.998	19.083	0.0	0.0
	5.00000	0.00000	19.50000	-11.456	19.083	0.0	0.0
	6.00000	0.00000	19.50000	-11.818	19.083	0.0	0.0
	7.00000	0.00000	19.50000	-12.106	19.083	0.0	0.0
	8.00000	0.00000	19.50000	-12.335	19.083	0.0	0.0
	9.00000	0.00000	19.50000	-12.516	19.083	0.0	0.0
	10.00000	0.00000	19.50000	-12.657	19.083	0.0	0.0
	11.00000	0.00000	19.50000	-12.763	19.083	0.0	0.0
	12.00000	0.00000	19.50000	-12.839	19.083	0.0	0.0
	13.00000	0.00000	19.50000	-12.887	19.083	0.0	0.0
	14.00000	0.00000	19.50000	-12.911	19.083	0.0	0.0
	15.00000	0.00000	19.50000	-12.910	19.083	0.0	0.0
	16.00000	0.00000	19.50000	-12.885	19.083	0.0	0.0
	17.00000	0.00000	19.50000	-12.836	19.083	0.0	0.0
	18.00000	0.00000	19.50000	-12.757	19.083	0.0	0.0
	19.00000	0.00000	19.50000	-12.643	19.083	0.0	0.0
	20.00000	0.00000	19.50000	-12.769	19.083	0.0	0.0
	21.00000	0.00000	19.50000	-12.878	19.083	0.0	0.0
	22.00000	0.00000	19.50000	-12.714	19.083	0.0	0.0
	23.00000	0.00000	19.50000	-12.551	19.083	0.0	0.0
	24.00000	0.00000	19.50000	-12.378	19.083	0.0	0.0
	25.00000	0.00000	19.50000	-12.187	19.083	0.0	0.0
	26.00000	0.00000	19.50000	-11.970	19.083	0.0	0.0
	27.00000	0.00000	19.50000	-11.719	19.083	0.0	0.0
	28.00000	0.00000	19.50000	-11.421	19.083	0.0	0.0
	29.00000	0.00000	19.50000	-11.063	19.083	0.0	0.0
	30.00000	0.00000	19.50000	-10.622	19.083	0.0	0.0
	31.00000	0.00000	19.50000	-10.067	19.083	0.0	0.0
	32.00000	0.00000	19.50000	-9.3434	19.083	0.0	0.0
	33.00000	0.00000	19.50000	-8.3372	19.083	0.0	0.0
	34.00000	0.00000	19.50000	-6.4411	19.083	0.0	0.0
	35.00000	0.00000	19.50000	-4.5466	19.083	0.0	0.0
	36.00000	0.00000	19.50000	-3.5453	19.083	0.0	0.0
	37.00000	0.00000	19.50000	-2.8295	19.083	0.0	0.0
	38.00000	0.00000	19.50000	-2.2864	19.083	0.0	0.0
	39.00000	0.00000	19.50000	-1.8613	19.083	0.0	0.0
	40.00000	0.00000	19.50000	-1.5224	19.083	0.0	0.0
	41.00000	0.00000	19.50000	-1.2487	19.083	0.0	0.0
	42.00000	0.00000	19.50000	-1.0256	19.083	0.0	0.0
	43.00000	0.00000	19.50000	-0.84256	19.083	0.0	0.0
	44.00000	0.00000	19.50000	-0.69149	19.083	0.0	0.0
	45.00000	0.00000	19.50000	-0.56630	19.083	0.0	0.0
	46.00000	0.00000	19.50000	-0.46221	19.083	0.0	0.0
	47.00000	0.00000	19.50000	-0.37544	19.083	0.0	0.0
	48.00000	0.00000	19.50000	-0.30297	19.083	0.0	0.0
	49.00000	0.00000	19.50000	-0.24234	19.083	0.0	0.0
	50.00000	0.00000	19.50000	-0.19158	19.083	0.0	0.0
	51.00000	0.00000	19.50000	-0.14906	19.083	0.0	0.0
	52.00000	0.00000	19.50000	-0.11344	19.083	0.0	0.0
	53.00000	0.00000	19.50000	-0.083602	19.083	0.0	0.0
	54.00000	0.00000	19.50000	-0.058630	19.083	0.0	0.0
	55.00000	0.00000	19.50000	-0.037756	19.083	0.0	0.0
	-25.00000	1.00000	19.50000	-0.012362	19.083	0.0	0.0
	-24.00000	1.00000	19.50000	-0.026496	19.083	0.0	0.0
	-23.00000	1.00000	19.50000	-0.043327	19.083	0.0	0.0
	-22.00000	1.00000	19.50000	-0.063333	19.083	0.0	0.0
	-21.00000	1.00000	19.50000	-0.087079	19.083	0.0	0.0
	-20.00000	1.00000	19.50000	-0.11523	19.083	0.0	0.0
	-19.00000	1.00000	19.50000	-0.14860	19.083	0.0	0.0
	-18.00000	1.00000	19.50000	-0.18813	19.083	0.0	0.0
	-17.00000	1.00000	19.50000	-0.23496	19.083	0.0	0.0
	-16.00000	1.00000	19.50000	-0.29048	19.083	0.0	0.0
	-15.00000	1.00000	19.50000	-0.35634	19.083	0.0	0.0
	-14.00000	1.00000	19.50000	-0.43457	19.083	0.0	0.0
	-13.00000	1.00000	19.50000	-0.52763	19.083	0.0	0.0
	-12.00000	1.00000	19.50000	-0.63856	19.083	0.0	0.0
	-11.00000	1.00000	19.50000	-0.77113	19.083	0.0	0.0
	-10.00000	1.00000	19.50000	-0.93008	19.083	0.0	0.0
	-9.00000	1.00000	19.50000	-1.1214	19.083	0.0	0.0
	-8.00000	1.00000	19.50000	-1.3530	19.083	0.0	0.0
	-7.00000	1.00000	19.50000	-1.6350	19.083	0.0	0.0
	-6.00000	1.00000	19.50000	-1.9815	19.083	0.0	0.0
	-5.00000	1.00000	19.50000	-2.4120	19.083	0.0	0.0
	-4.00000	1.00000	19.50000	-2.9561	19.083	0.0	0.0
	-3.00000	1.00000	19.50000	-3.6613	19.083	0.0	0.0
	-2.00000	1.00000	19.50000	-4.6163	19.083	0.0	0.0
	-1.00000	1.00000	19.50000	-6.0262	19.083	0.0	0.0
	0.00000	1.00000	19.50000	-8.5525	19.083	0.0	0.0
	1.00000	1.00000	19.50000	-11.077	19.083	0.0	0.0
	2.00000	1.00000	19.50000	-12.483	19.083	0.0	0.0
	3.00000	1.00000	19.50000	-13.431	19.083	0.0	0.0
	4.00000	1.00000	19.50000	-14.126	19.083	0.0	0.0
	5.00000	1.00000	19.50000	-14.657	19.083	0.0	0.0
	6.00000	1.00000	19.50000	-15.070	19.083	0.0	0.0
	7.00000	1.00000	19.50000	-15.396	19.083	0.0	0.0
	8.00000	1.00000	19.50000	-15.653	19.083	0.0	0.0
	9.00000	1.00000	19.50000	-15.854	19.083	0.0	0.0
	10.00000	1.00000	19.50000	-16.010	19.083	0.0	0.0
	11.00000	1.00000	19.50000	-16.126	19.083	0.0	0.0
	12.00000	1.00000	19.50000	-16.209	19.083	0.0	0.0
	13.00000	1.00000	19.50000	-16.262	19.083	0.0	0.0
	14.00000	1.00000	19.50000	-16.287	19.083	0.0	0.0
	15.00000	1.00000	19.50000	-16.285	19.083	0.0	0.0
	16.00000	1.00000	19.50000	-16.256	19.083	0.0	0.0
	17.00000	1.00000	19.50000	-16.198	19.083	0.0	0.0
	18.00000	1.00000	19.50000	-16.105	19.083	0.0	0.0
	19.00000	1.00000	19.50000	-15.966	19.083	0.0	0.0
	20.00000	1.00000	19.50000	-16.330	19.083	0.0	0.0
	21.00000	1.00000	19.50000	-16.676	19.083	0.0	0.0
	22.00000	1.00000	19.50000	-16.482	19.083	0.0	0.0
	23.00000	1.00000	19.50000	-16.296	19.083	0.0	0.0
	24.00000	1.00000	19.50000	-16.103	19.083	0.0	0.0
	25.00000	1.00000	19.50000	-15.891	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
26.00000	1.00000	19.50000	-15.649	19.083	0.0	0.0	0.0
27.00000	1.00000	19.50000	-15.368	19.083	0.0	0.0	0.0
28.00000	1.00000	19.50000	-15.033	19.083	0.0	0.0	0.0
29.00000	1.00000	19.50000	-14.625	19.083	0.0	0.0	0.0
30.00000	1.00000	19.50000	-14.116	19.083	0.0	0.0	0.0
31.00000	1.00000	19.50000	-13.460	19.083	0.0	0.0	0.0
32.00000	1.00000	19.50000	-12.575	19.083	0.0	0.0	0.0
33.00000	1.00000	19.50000	-11.267	19.083	0.0	0.0	0.0
34.00000	1.00000	19.50000	-8.3228	19.083	0.0	0.0	0.0
35.00000	1.00000	19.50000	-5.3808	19.083	0.0	0.0	0.0
36.00000	1.00000	19.50000	-4.0779	19.083	0.0	0.0	0.0
37.00000	1.00000	19.50000	-3.2018	19.083	0.0	0.0	0.0
38.00000	1.00000	19.50000	-2.5590	19.083	0.0	0.0	0.0
39.00000	1.00000	19.50000	-2.0667	19.083	0.0	0.0	0.0
40.00000	1.00000	19.50000	-1.6802	19.083	0.0	0.0	0.0
41.00000	1.00000	19.50000	-1.3716	19.083	0.0	0.0	0.0
42.00000	1.00000	19.50000	-1.1224	19.083	0.0	0.0	0.0
43.00000	1.00000	19.50000	-0.91937	19.083	0.0	0.0	0.0
44.00000	1.00000	19.50000	-0.75285	19.083	0.0	0.0	0.0
45.00000	1.00000	19.50000	-0.61557	19.083	0.0	0.0	0.0
46.00000	1.00000	19.50000	-0.50194	19.083	0.0	0.0	0.0
47.00000	1.00000	19.50000	-0.40759	19.083	0.0	0.0	0.0
48.00000	1.00000	19.50000	-0.32904	19.083	0.0	0.0	0.0
49.00000	1.00000	19.50000	-0.26354	19.083	0.0	0.0	0.0
50.00000	1.00000	19.50000	-0.20884	19.083	0.0	0.0	0.0
51.00000	1.00000	19.50000	-0.16112	19.083	0.0	0.0	0.0
52.00000	1.00000	19.50000	-0.12490	19.083	0.0	0.0	0.0
53.00000	1.00000	19.50000	-0.092950	19.083	0.0	0.0	0.0
54.00000	1.00000	19.50000	-0.066250	19.083	0.0	0.0	0.0
55.00000	1.00000	19.50000	-0.043960	19.083	0.0	0.0	0.0
-25.00000	2.00000	19.50000	-0.015960	19.083	0.0	0.0	0.0
-24.00000	2.00000	19.50000	-0.030882	19.083	0.0	0.0	0.0
-23.00000	2.00000	19.50000	-0.048665	19.083	0.0	0.0	0.0
-22.00000	2.00000	19.50000	-0.069821	19.083	0.0	0.0	0.0
-21.00000	2.00000	19.50000	-0.094957	19.083	0.0	0.0	0.0
-20.00000	2.00000	19.50000	-0.12480	19.083	0.0	0.0	0.0
-19.00000	2.00000	19.50000	-0.16021	19.083	0.0	0.0	0.0
-18.00000	2.00000	19.50000	-0.20222	19.083	0.0	0.0	0.0
-17.00000	2.00000	19.50000	-0.25209	19.083	0.0	0.0	0.0
-16.00000	2.00000	19.50000	-0.31131	19.083	0.0	0.0	0.0
-15.00000	2.00000	19.50000	-0.38122	19.083	0.0	0.0	0.0
-14.00000	2.00000	19.50000	-0.46553	19.083	0.0	0.0	0.0
-13.00000	2.00000	19.50000	-0.56550	19.083	0.0	0.0	0.0
-12.00000	2.00000	19.50000	-0.68499	19.083	0.0	0.0	0.0
-11.00000	2.00000	19.50000	-0.82826	19.083	0.0	0.0	0.0
-10.00000	2.00000	19.50000	-1.00006	19.083	0.0	0.0	0.0
-9.00000	2.00000	19.50000	-1.2090	19.083	0.0	0.0	0.0
-8.00000	2.00000	19.50000	-1.4623	19.083	0.0	0.0	0.0
-7.00000	2.00000	19.50000	-1.7725	19.083	0.0	0.0	0.0
-6.00000	2.00000	19.50000	-2.1559	19.083	0.0	0.0	0.0
-5.00000	2.00000	19.50000	-2.6359	19.083	0.0	0.0	0.0
-4.00000	2.00000	19.50000	-3.2479	19.083	0.0	0.0	0.0
-3.00000	2.00000	19.50000	-4.0498	19.083	0.0	0.0	0.0
-2.00000	2.00000	19.50000	-5.1486	19.083	0.0	0.0	0.0
-1.00000	2.00000	19.50000	-6.7812	19.083	0.0	0.0	0.0
0.00000	2.00000	19.50000	-9.6315	19.083	0.0	0.0	0.0
1.00000	2.00000	19.50000	-12.480	19.083	0.0	0.0	0.0
2.00000	2.00000	19.50000	-14.109	19.083	0.0	0.0	0.0
3.00000	2.00000	19.50000	-15.200	19.083	0.0	0.0	0.0
4.00000	2.00000	19.50000	-15.991	19.083	0.0	0.0	0.0
5.00000	2.00000	19.50000	-16.589	19.083	0.0	0.0	0.0
6.00000	2.00000	19.50000	-17.051	19.083	0.0	0.0	0.0
7.00000	2.00000	19.50000	-17.412	19.083	0.0	0.0	0.0
8.00000	2.00000	19.50000	-17.695	19.083	0.0	0.0	0.0
9.00000	2.00000	19.50000	-17.916	19.083	0.0	0.0	0.0
10.00000	2.00000	19.50000	-18.086	19.083	0.0	0.0	0.0
11.00000	2.00000	19.50000	-18.214	19.083	0.0	0.0	0.0
12.00000	2.00000	19.50000	-18.303	19.083	0.0	0.0	0.0
13.00000	2.00000	19.50000	-18.360	19.083	0.0	0.0	0.0
14.00000	2.00000	19.50000	-18.386	19.083	0.0	0.0	0.0
15.00000	2.00000	19.50000	-18.383	19.083	0.0	0.0	0.0
16.00000	2.00000	19.50000	-18.350	19.083	0.0	0.0	0.0
17.00000	2.00000	19.50000	-18.285	19.083	0.0	0.0	0.0
18.00000	2.00000	19.50000	-18.180	19.083	0.0	0.0	0.0
19.00000	2.00000	19.50000	-18.022	19.083	0.0	0.0	0.0
20.00000	2.00000	19.50000	-18.360	19.083	0.0	0.0	0.0
21.00000	2.00000	19.50000	-18.678	19.083	0.0	0.0	0.0
22.00000	2.00000	19.50000	-18.461	19.083	0.0	0.0	0.0
23.00000	2.00000	19.50000	-18.255	19.083	0.0	0.0	0.0
24.00000	2.00000	19.50000	-18.042	19.083	0.0	0.0	0.0
25.00000	2.00000	19.50000	-17.809	19.083	0.0	0.0	0.0
26.00000	2.00000	19.50000	-17.544	19.083	0.0	0.0	0.0
27.00000	2.00000	19.50000	-17.234	19.083	0.0	0.0	0.0
28.00000	2.00000	19.50000	-16.864	19.083	0.0	0.0	0.0
29.00000	2.00000	19.50000	-16.409	19.083	0.0	0.0	0.0
30.00000	2.00000	19.50000	-15.836	19.083	0.0	0.0	0.0
31.00000	2.00000	19.50000	-15.090	19.083	0.0	0.0	0.0
32.00000	2.00000	19.50000	-14.071	19.083	0.0	0.0	0.0
33.00000	2.00000	19.50000	-12.556	19.083	0.0	0.0	0.0
34.00000	2.00000	19.50000	-9.3109	19.083	0.0	0.0	0.0
35.00000	2.00000	19.50000	-6.0674	19.083	0.0	0.0	0.0
36.00000	2.00000	19.50000	-4.5583	19.083	0.0	0.0	0.0
37.00000	2.00000	19.50000	-3.5496	19.083	0.0	0.0	0.0
38.00000	2.00000	19.50000	-2.8181	19.083	0.0	0.0	0.0
39.00000	2.00000	19.50000	-2.2638	19.083	0.0	0.0	0.0
40.00000	2.00000	19.50000	-1.8324	19.083	0.0	0.0	0.0
41.00000	2.00000	19.50000	-1.4906	19.083	0.0	0.0	0.0
42.00000	2.00000	19.50000	-1.2163	19.083	0.0	0.0	0.0
43.00000	2.00000	19.50000	-0.99399	19.083	0.0	0.0	0.0
44.00000	2.00000	19.50000	-0.81251	19.083	0.0	0.0	0.0
45.00000	2.00000	19.50000	-0.66350	19.083	0.0	0.0	0.0
46.00000	2.00000	19.50000	-0.54060	19.083	0.0	0.0	0.0
47.00000	2.00000	19.50000	-0.43886	19.083	0.0	0.0	0.0
48.00000	2.00000	19.50000	-0.35440	19.083	0.0	0.0	0.0
49.00000	2.00000	19.50000	-0.28415	19.083	0.0	0.0	0.0
50.00000	2.00000	19.50000	-0.22561	19.083	0.0	0.0	0.0
51.00000	2.00000	19.50000	-0.17679	19.083	0.0	0.0	0.0
52.00000	2.00000	19.50000	-0.13604	19.083	0.0	0.0	0.0
53.00000	2.00000	19.50000	-0.10203	19.083	0.0	0.0	0.0
54.00000	2.00000	19.50000	-0.073646	19.083	0.0	0.0	0.0
55.00000	2.00000	19.50000	-0.04982	19.083	0.0	0.0	0.0
-25.00000	3.00000	19.50000	-0.019399	19.083	0.0	0.0	0.0
-24.00000	3.00000	19.50000	-0.035075	19.083	0.0	0.0	0.0
-23.00000	3.00000	19.50000	-0.053768	19.083	0.0	0.0	0.0
-22.00000	3.00000	19.50000	-0.076024	19.083	0.0	0.0	0.0
-21.00000	3.00000	19.50000	-0.10249	19.083	0.0	0.0	0.0
-20.00000	3.00000	19.50000	-0.13395	19.083	0.0	0.0	0.0
-19.00000	3.00000	19.50000	-0.17132	19.083	0.0	0.0	0.0
-18.00000	3.00000	19.50000	-0.21572	19.083	0.0	0.0	0.0
-17.00000	3.00000	19.50000	-0.26849	19.083	0.0	0.0	0.0
-16.00000	3.00000	19.50000	-0.33126	19.083	0.0	0.0	0.0
-15.00000	3.00000	19.50000	-0.40602	19.083	0.0	0.0	0.0
-14.00000	3.00000	19.50000	-0.49518	19.083	0.0	0.0	0.0
-13.00000	3.00000	19.50000	-0.60174	19.083	0.0	0.0	0.0
-12.00000	3.00000	19.50000	-0.72941	19.083	0.0	0.0	0.0
-11.00000	3.00000	19.50000	-0.88285	19.083	0.0	0.0	0.0
-10.00000	3.00000	19.50000	-1.0680	19.083	0.0	0.0	0.0
-9.00000	3.00000	19.50000	-1.2924	19.083	0.0	0.0	0.0
-8.00000	3.00000	19.50000	-1.5661	19.083	0.0	0.0	0.0
-7.00000	3.00000	19.50000	-1.9023	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-6.00000	3.00000	19.50000	-2.3196	19.083	0.0	0.0
	-5.00000	3.00000	19.50000	-2.8439	19.083	0.0	0.0
	-4.00000	3.00000	19.50000	-3.5150	19.083	0.0	0.0
	-3.00000	3.00000	19.50000	-4.3964	19.083	0.0	0.0
	-2.00000	3.00000	19.50000	-5.6032	19.083	0.0	0.0
	-1.00000	3.00000	19.50000	-7.3793	19.083	0.0	0.0
	0.00000	3.00000	19.50000	-10.403	19.083	0.0	0.0
	1.00000	3.00000	19.50000	-13.425	19.083	0.0	0.0
	2.00000	3.00000	19.50000	-15.196	19.083	0.0	0.0
	3.00000	3.00000	19.50000	-16.395	19.083	0.0	0.0
	4.00000	3.00000	19.50000	-17.265	19.083	0.0	0.0
	5.00000	3.00000	19.50000	-17.921	19.083	0.0	0.0
	6.00000	3.00000	19.50000	-18.427	19.083	0.0	0.0
	7.00000	3.00000	19.50000	-18.820	19.083	0.0	0.0
	8.00000	3.00000	19.50000	-19.128	19.083	0.0	0.0
	9.00000	3.00000	19.50000	-19.368	19.083	0.0	0.0
	10.00000	3.00000	19.50000	-19.551	19.083	0.0	0.0
	11.00000	3.00000	19.50000	-19.689	19.083	0.0	0.0
	12.00000	3.00000	19.50000	-19.785	19.083	0.0	0.0
	13.00000	3.00000	19.50000	-19.846	19.083	0.0	0.0
	14.00000	3.00000	19.50000	-19.873	19.083	0.0	0.0
	15.00000	3.00000	19.50000	-19.869	19.083	0.0	0.0
	16.00000	3.00000	19.50000	-19.833	19.083	0.0	0.0
	17.00000	3.00000	19.50000	-19.761	19.083	0.0	0.0
	18.00000	3.00000	19.50000	-19.647	19.083	0.0	0.0
	19.00000	3.00000	19.50000	-19.476	19.083	0.0	0.0
	20.00000	3.00000	19.50000	-19.796	19.083	0.0	0.0
	21.00000	3.00000	19.50000	-20.097	19.083	0.0	0.0
	22.00000	3.00000	19.50000	-19.862	19.083	0.0	0.0
	23.00000	3.00000	19.50000	-19.639	19.083	0.0	0.0
	24.00000	3.00000	19.50000	-19.408	19.083	0.0	0.0
	25.00000	3.00000	19.50000	-19.156	19.083	0.0	0.0
	26.00000	3.00000	19.50000	-18.870	19.083	0.0	0.0
	27.00000	3.00000	19.50000	-18.534	19.083	0.0	0.0
	28.00000	3.00000	19.50000	-18.130	19.083	0.0	0.0
	29.00000	3.00000	19.50000	-17.633	19.083	0.0	0.0
	30.00000	3.00000	19.50000	-17.005	19.083	0.0	0.0
	31.00000	3.00000	19.50000	-16.185	19.083	0.0	0.0
	32.00000	3.00000	19.50000	-15.066	19.083	0.0	0.0
	33.00000	3.00000	19.50000	-13.418	19.083	0.0	0.0
	34.00000	3.00000	19.50000	-10.012	19.083	0.0	0.0
	35.00000	3.00000	19.50000	-6.6086	19.083	0.0	0.0
	36.00000	3.00000	19.50000	-4.9671	19.083	0.0	0.0
	37.00000	3.00000	19.50000	-3.8590	19.083	0.0	0.0
	38.00000	3.00000	19.50000	-3.0546	19.083	0.0	0.0
	39.00000	3.00000	19.50000	-2.4466	19.083	0.0	0.0
	40.00000	3.00000	19.50000	-1.9751	19.083	0.0	0.0
	41.00000	3.00000	19.50000	-1.6029	19.083	0.0	0.0
	42.00000	3.00000	19.50000	-1.3053	19.083	0.0	0.0
	43.00000	3.00000	19.50000	-1.0650	19.083	0.0	0.0
	44.00000	3.00000	19.50000	-0.86943	19.083	0.0	0.0
	45.00000	3.00000	19.50000	-0.70931	19.083	0.0	0.0
	46.00000	3.00000	19.50000	-0.57758	19.083	0.0	0.0
	47.00000	3.00000	19.50000	-0.46880	19.083	0.0	0.0
	48.00000	3.00000	19.50000	-0.37870	19.083	0.0	0.0
	49.00000	3.00000	19.50000	-0.30290	19.083	0.0	0.0
	50.00000	3.00000	19.50000	-0.24169	19.083	0.0	0.0
	51.00000	3.00000	19.50000	-0.18988	19.083	0.0	0.0
	52.00000	3.00000	19.50000	-0.14671	19.083	0.0	0.0
	53.00000	3.00000	19.50000	-0.11073	19.083	0.0	0.0
	54.00000	3.00000	19.50000	-0.080322	19.083	0.0	0.0
	55.00000	3.00000	19.50000	-0.055750	19.083	0.0	0.0
	-25.00000	4.00000	19.50000	-0.022641	19.083	0.0	0.0
	-24.00000	4.00000	19.50000	-0.039027	19.083	0.0	0.0
	-23.00000	4.00000	19.50000	-0.058579	19.083	0.0	0.0
	-22.00000	4.00000	19.50000	-0.081872	19.083	0.0	0.0
	-21.00000	4.00000	19.50000	-0.10960	19.083	0.0	0.0
	-20.00000	4.00000	19.50000	-0.14257	19.083	0.0	0.0
	-19.00000	4.00000	19.50000	-0.18179	19.083	0.0	0.0
	-18.00000	4.00000	19.50000	-0.22844	19.083	0.0	0.0
	-17.00000	4.00000	19.50000	-0.28296	19.083	0.0	0.0
	-16.00000	4.00000	19.50000	-0.35008	19.083	0.0	0.0
	-15.00000	4.00000	19.50000	-0.42893	19.083	0.0	0.0
	-14.00000	4.00000	19.50000	-0.52312	19.083	0.0	0.0
	-13.00000	4.00000	19.50000	-0.63586	19.083	0.0	0.0
	-12.00000	4.00000	19.50000	-0.77117	19.083	0.0	0.0
	-11.00000	4.00000	19.50000	-0.93409	19.083	0.0	0.0
	-10.00000	4.00000	19.50000	-1.1310	19.083	0.0	0.0
	-9.00000	4.00000	19.50000	-1.3702	19.083	0.0	0.0
	-8.00000	4.00000	19.50000	-1.6624	19.083	0.0	0.0
	-7.00000	4.00000	19.50000	-2.0222	19.083	0.0	0.0
	-6.00000	4.00000	19.50000	-2.4693	19.083	0.0	0.0
	-5.00000	4.00000	19.50000	-3.0319	19.083	0.0	0.0
	-4.00000	4.00000	19.50000	-3.7520	19.083	0.0	0.0
	-3.00000	4.00000	19.50000	-4.6963	19.083	0.0	0.0
	-2.00000	4.00000	19.50000	-5.9824	19.083	0.0	0.0
	-1.00000	4.00000	19.50000	-7.8546	19.083	0.0	0.0
	0.00000	4.00000	19.50000	-10.986	19.083	0.0	0.0
	1.00000	4.00000	19.50000	-14.115	19.083	0.0	0.0
	2.00000	4.00000	19.50000	-15.983	19.083	0.0	0.0
	3.00000	4.00000	19.50000	-17.261	19.083	0.0	0.0
	4.00000	4.00000	19.50000	-18.193	19.083	0.0	0.0
	5.00000	4.00000	19.50000	-18.897	19.083	0.0	0.0
	6.00000	4.00000	19.50000	-19.440	19.083	0.0	0.0
	7.00000	4.00000	19.50000	-19.862	19.083	0.0	0.0
	8.00000	4.00000	19.50000	-20.192	19.083	0.0	0.0
	9.00000	4.00000	19.50000	-20.448	19.083	0.0	0.0
	10.00000	4.00000	19.50000	-20.645	19.083	0.0	0.0
	11.00000	4.00000	19.50000	-20.791	19.083	0.0	0.0
	12.00000	4.00000	19.50000	-20.894	19.083	0.0	0.0
	13.00000	4.00000	19.50000	-20.958	19.083	0.0	0.0
	14.00000	4.00000	19.50000	-20.987	19.083	0.0	0.0
	15.00000	4.00000	19.50000	-20.982	19.083	0.0	0.0
	16.00000	4.00000	19.50000	-20.943	19.083	0.0	0.0
	17.00000	4.00000	19.50000	-20.866	19.083	0.0	0.0
	18.00000	4.00000	19.50000	-20.745	19.083	0.0	0.0
	19.00000	4.00000	19.50000	-20.564	19.083	0.0	0.0
	20.00000	4.00000	19.50000	-20.873	19.083	0.0	0.0
	21.00000	4.00000	19.50000	-21.160	19.083	0.0	0.0
	22.00000	4.00000	19.50000	-20.911	19.083	0.0	0.0
	23.00000	4.00000	19.50000	-20.674	19.083	0.0	0.0
	24.00000	4.00000	19.50000	-20.428	19.083	0.0	0.0
	25.00000	4.00000	19.50000	-20.159	19.083	0.0	0.0
	26.00000	4.00000	19.50000	-19.852	19.083	0.0	0.0
	27.00000	4.00000	19.50000	-19.493	19.083	0.0	0.0
	28.00000	4.00000	19.50000	-19.060	19.083	0.0	0.0
	29.00000	4.00000	19.50000	-18.527	19.083	0.0	0.0
	30.00000	4.00000	19.50000	-17.852	19.083	0.0	0.0
	31.00000	4.00000	19.50000	-16.974	19.083	0.0	0.0
	32.00000	4.00000	19.50000	-15.782	19.083	0.0	0.0
	33.00000	4.00000	19.50000	-14.045	19.083	0.0	0.0
	34.00000	4.00000	19.50000	-10.540	19.083	0.0	0.0
	35.00000	4.00000	19.50000	-7.0366	19.083	0.0	0.0
	36.00000	4.00000	19.50000	-5.3065	19.083	0.0	0.0
	37.00000	4.00000	19.50000	-4.1257	19.083	0.0	0.0
	38.00000	4.00000	19.50000	-3.2639	19.083	0.0	0.0
	39.00000	4.00000	19.50000	-2.6113	19.083	0.0	0.0
	40.00000	4.00000	19.50000	-2.1054	19.083	0.0	0.0
	41.00000	4.00000	19.50000	-1.7065	19.083	0.0	0.0
	42.00000	4.00000	19.50000	-1.3880	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	43.00000	4.00000	19.50000	-1.1312	19.083	0.0	0.0
	44.00000	4.00000	19.50000	-0.92270	19.083	0.0	0.0
	45.00000	4.00000	19.50000	-0.75228	19.083	0.0	0.0
	46.00000	4.00000	19.50000	-0.61235	19.083	0.0	0.0
	47.00000	4.00000	19.50000	-0.49699	19.083	0.0	0.0
	48.00000	4.00000	19.50000	-0.40160	19.083	0.0	0.0
	49.00000	4.00000	19.50000	-0.32252	19.083	0.0	0.0
	50.00000	4.00000	19.50000	-0.25685	19.083	0.0	0.0
	51.00000	4.00000	19.50000	-0.20224	19.083	0.0	0.0
	52.00000	4.00000	19.50000	-0.15679	19.083	0.0	0.0
	53.00000	4.00000	19.50000	-0.11894	19.083	0.0	0.0
	54.00000	4.00000	19.50000	-0.087423	19.083	0.0	0.0
	55.00000	4.00000	19.50000	-0.061197	19.083	0.0	0.0
	-25.00000	5.00000	19.50000	-0.025650	19.083	0.0	0.0
	-24.00000	5.00000	19.50000	-0.042695	19.083	0.0	0.0
	-23.00000	5.00000	19.50000	-0.063043	19.083	0.0	0.0
	-22.00000	5.00000	19.50000	-0.087300	19.083	0.0	0.0
	-21.00000	5.00000	19.50000	-0.11619	19.083	0.0	0.0
	-20.00000	5.00000	19.50000	-0.15058	19.083	0.0	0.0
	-19.00000	5.00000	19.50000	-0.19152	19.083	0.0	0.0
	-18.00000	5.00000	19.50000	-0.24025	19.083	0.0	0.0
	-17.00000	5.00000	19.50000	-0.29830	19.083	0.0	0.0
	-16.00000	5.00000	19.50000	-0.36752	19.083	0.0	0.0
	-15.00000	5.00000	19.50000	-0.45015	19.083	0.0	0.0
	-14.00000	5.00000	19.50000	-0.54898	19.083	0.0	0.0
	-13.00000	5.00000	19.50000	-0.66741	19.083	0.0	0.0
	-12.00000	5.00000	19.50000	-0.80972	19.083	0.0	0.0
	-11.00000	5.00000	19.50000	-0.98126	19.083	0.0	0.0
	-10.00000	5.00000	19.50000	-1.1889	19.083	0.0	0.0
	-9.00000	5.00000	19.50000	-1.4413	19.083	0.0	0.0
	-8.00000	5.00000	19.50000	-1.75000	19.083	0.0	0.0
	-7.00000	5.00000	19.50000	-2.1303	19.083	0.0	0.0
	-6.00000	5.00000	19.50000	-2.6031	19.083	0.0	0.0
	-5.00000	5.00000	19.50000	-3.1977	19.083	0.0	0.0
	-4.00000	5.00000	19.50000	-3.9575	19.083	0.0	0.0
	-3.00000	5.00000	19.50000	-4.9506	19.083	0.0	0.0
	-2.00000	5.00000	19.50000	-6.2951	19.083	0.0	0.0
	-1.00000	5.00000	19.50000	-8.2344	19.083	0.0	0.0
	0.00000	5.00000	19.50000	-11.438	19.083	0.0	0.0
	1.00000	5.00000	19.50000	-14.640	19.083	0.0	0.0
	2.00000	5.00000	19.50000	-16.575	19.083	0.0	0.0
	3.00000	5.00000	19.50000	-17.910	19.083	0.0	0.0
	4.00000	5.00000	19.50000	-18.891	19.083	0.0	0.0
	5.00000	5.00000	19.50000	-19.634	19.083	0.0	0.0
	6.00000	5.00000	19.50000	-20.208	19.083	0.0	0.0
	7.00000	5.00000	19.50000	-20.655	19.083	0.0	0.0
	8.00000	5.00000	19.50000	-21.004	19.083	0.0	0.0
	9.00000	5.00000	19.50000	-21.275	19.083	0.0	0.0
	10.00000	5.00000	19.50000	-21.483	19.083	0.0	0.0
	11.00000	5.00000	19.50000	-21.637	19.083	0.0	0.0
	12.00000	5.00000	19.50000	-21.746	19.083	0.0	0.0
	13.00000	5.00000	19.50000	-21.814	19.083	0.0	0.0
	14.00000	5.00000	19.50000	-21.844	19.083	0.0	0.0
	15.00000	5.00000	19.50000	-21.839	19.083	0.0	0.0
	16.00000	5.00000	19.50000	-21.797	19.083	0.0	0.0
	17.00000	5.00000	19.50000	-21.717	19.083	0.0	0.0
	18.00000	5.00000	19.50000	-21.589	19.083	0.0	0.0
	19.00000	5.00000	19.50000	-21.401	19.083	0.0	0.0
	20.00000	5.00000	19.50000	-21.701	19.083	0.0	0.0
	21.00000	5.00000	19.50000	-21.978	19.083	0.0	0.0
	22.00000	5.00000	19.50000	-22.718	19.083	0.0	0.0
	23.00000	5.00000	19.50000	-21.468	19.083	0.0	0.0
	24.00000	5.00000	19.50000	-21.209	19.083	0.0	0.0
	25.00000	5.00000	19.50000	-20.925	19.083	0.0	0.0
	26.00000	5.00000	19.50000	-20.600	19.083	0.0	0.0
	27.00000	5.00000	19.50000	-20.220	19.083	0.0	0.0
	28.00000	5.00000	19.50000	-19.762	19.083	0.0	0.0
	29.00000	5.00000	19.50000	-19.199	19.083	0.0	0.0
	30.00000	5.00000	19.50000	-18.487	19.083	0.0	0.0
	31.00000	5.00000	19.50000	-17.564	19.083	0.0	0.0
	32.00000	5.00000	19.50000	-16.318	19.083	0.0	0.0
	33.00000	5.00000	19.50000	-14.519	19.083	0.0	0.0
	34.00000	5.00000	19.50000	-10.947	19.083	0.0	0.0
	35.00000	5.00000	19.50000	-7.3767	19.083	0.0	0.0
	36.00000	5.00000	19.50000	-5.5851	19.083	0.0	0.0
	37.00000	5.00000	19.50000	-4.3509	19.083	0.0	0.0
	38.00000	5.00000	19.50000	-3.4447	19.083	0.0	0.0
	39.00000	5.00000	19.50000	-2.7563	19.083	0.0	0.0
	40.00000	5.00000	19.50000	-2.2215	19.083	0.0	0.0
	41.00000	5.00000	19.50000	-1.7997	19.083	0.0	0.0
	42.00000	5.00000	19.50000	-1.4630	19.083	0.0	0.0
	43.00000	5.00000	19.50000	-1.1917	19.083	0.0	0.0
	44.00000	5.00000	19.50000	-0.97155	19.083	0.0	0.0
	45.00000	5.00000	19.50000	-0.79183	19.083	0.0	0.0
	46.00000	5.00000	19.50000	-0.64443	19.083	0.0	0.0
	47.00000	5.00000	19.50000	-0.52305	19.083	0.0	0.0
	48.00000	5.00000	19.50000	-0.42279	19.083	0.0	0.0
	49.00000	5.00000	19.50000	-0.33978	19.083	0.0	0.0
	50.00000	5.00000	19.50000	-0.27092	19.083	0.0	0.0
	51.00000	5.00000	19.50000	-0.21371	19.083	0.0	0.0
	52.00000	5.00000	19.50000	-0.16614	19.083	0.0	0.0
	53.00000	5.00000	19.50000	-0.12656	19.083	0.0	0.0
	54.00000	5.00000	19.50000	-0.093638	19.083	0.0	0.0
	55.00000	5.00000	19.50000	-0.066257	19.083	0.0	0.0
	-25.00000	6.00000	19.50000	-0.028391	19.083	0.0	0.0
	-24.00000	6.00000	19.50000	-0.046377	19.083	0.0	0.0
	-23.00000	6.00000	19.50000	-0.067111	19.083	0.0	0.0
	-22.00000	6.00000	19.50000	-0.092245	19.083	0.0	0.0
	-21.00000	6.00000	19.50000	-0.12220	19.083	0.0	0.0
	-20.00000	6.00000	19.50000	-0.15787	19.083	0.0	0.0
	-19.00000	6.00000	19.50000	-0.20037	19.083	0.0	0.0
	-18.00000	6.00000	19.50000	-0.25100	19.083	0.0	0.0
	-17.00000	6.00000	19.50000	-0.31136	19.083	0.0	0.0
	-16.00000	6.00000	19.50000	-0.38338	19.083	0.0	0.0
	-15.00000	6.00000	19.50000	-0.46944	19.083	0.0	0.0
	-14.00000	6.00000	19.50000	-0.57244	19.083	0.0	0.0
	-13.00000	6.00000	19.50000	-0.69599	19.083	0.0	0.0
	-12.00000	6.00000	19.50000	-0.84457	19.083	0.0	0.0
	-11.00000	6.00000	19.50000	-1.0238	19.083	0.0	0.0
	-10.00000	6.00000	19.50000	-1.2409	19.083	0.0	0.0
	-9.00000	6.00000	19.50000	-1.5049	19.083	0.0	0.0
	-8.00000	6.00000	19.50000	-1.8279	19.083	0.0	0.0
	-7.00000	6.00000	19.50000	-2.2258	19.083	0.0	0.0
	-6.00000	6.00000	19.50000	-2.7200	19.083	0.0	0.0
	-5.00000	6.00000	19.50000	-3.3408	19.083	0.0	0.0
	-4.00000	6.00000	19.50000	-4.1323	19.083	0.0	0.0
	-3.00000	6.00000	19.50000	-5.1629	19.083	0.0	0.0
	-2.00000	6.00000	19.50000	-6.5508	19.083	0.0	0.0
	-1.00000	6.00000	19.50000	-8.5385	19.083	0.0	0.0
	0.00000	6.00000	19.50000	-11.793	19.083	0.0	0.0
	1.00000	6.00000	19.50000	-15.046	19.083	0.0	0.0
	2.00000	6.00000	19.50000	-17.029	19.083	0.0	0.0
	3.00000	6.00000	19.50000	-18.408	19.083	0.0	0.0
	4.00000	6.00000	19.50000	-19.425	19.083	0.0	0.0
	5.00000	6.00000	19.50000	-20.200	19.083	0.0	0.0
	6.00000	6.00000	19.50000	-20.799	19.083	0.0	0.0
	7.00000	6.00000	19.50000	-21.267	19.083	0.0	0.0
	8.00000	6.00000	19.50000	-21.632	19.083	0.0	0.0
	9.00000	6.00000	19.50000	-21.916	19.083	0.0	0.0
	10.00000	6.00000	19.50000	-22.133	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

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Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]	
	11.00000	6.00000	19.50000	-22.295	19.083	0.0	0.0	0.0
	12.00000	6.00000	19.50000	-22.408	19.083	0.0	0.0	0.0
	13.00000	6.00000	19.50000	-22.480	19.083	0.0	0.0	0.0
	14.00000	6.00000	19.50000	-22.511	19.083	0.0	0.0	0.0
	15.00000	6.00000	19.50000	-22.506	19.083	0.0	0.0	0.0
	16.00000	6.00000	19.50000	-22.463	19.083	0.0	0.0	0.0
	17.00000	6.00000	19.50000	-22.379	19.083	0.0	0.0	0.0
	18.00000	6.00000	19.50000	-22.247	19.083	0.0	0.0	0.0
	19.00000	6.00000	19.50000	-22.052	19.083	0.0	0.0	0.0
	20.00000	6.00000	19.50000	-22.345	19.083	0.0	0.0	0.0
	21.00000	6.00000	19.50000	-22.614	19.083	0.0	0.0	0.0
	22.00000	6.00000	19.50000	-22.345	19.083	0.0	0.0	0.0
	23.00000	6.00000	19.50000	-22.085	19.083	0.0	0.0	0.0
	24.00000	6.00000	19.50000	-21.814	19.083	0.0	0.0	0.0
	25.00000	6.00000	19.50000	-21.517	19.083	0.0	0.0	0.0
	26.00000	6.00000	19.50000	-21.178	19.083	0.0	0.0	0.0
	27.00000	6.00000	19.50000	-20.780	19.083	0.0	0.0	0.0
	28.00000	6.00000	19.50000	-20.301	19.083	0.0	0.0	0.0
	29.00000	6.00000	19.50000	-19.712	19.083	0.0	0.0	0.0
	30.00000	6.00000	19.50000	-18.972	19.083	0.0	0.0	0.0
	31.00000	6.00000	19.50000	-18.013	19.083	0.0	0.0	0.0
	32.00000	6.00000	19.50000	-16.727	19.083	0.0	0.0	0.0
	33.00000	6.00000	19.50000	-14.884	19.083	0.0	0.0	0.0
	34.00000	6.00000	19.50000	-11.264	19.083	0.0	0.0	0.0
	35.00000	6.00000	19.50000	-7.6476	19.083	0.0	0.0	0.0
	36.00000	6.00000	19.50000	-5.81119	19.083	0.0	0.0	0.0
	37.00000	6.00000	19.50000	-4.5381	19.083	0.0	0.0	0.0
	38.00000	6.00000	19.50000	-3.5980	19.083	0.0	0.0	0.0
	39.00000	6.00000	19.50000	-2.8810	19.083	0.0	0.0	0.0
	40.00000	6.00000	19.50000	-2.3228	19.083	0.0	0.0	0.0
	41.00000	6.00000	19.50000	-1.8818	19.083	0.0	0.0	0.0
	42.00000	6.00000	19.50000	-1.5296	19.083	0.0	0.0	0.0
	43.00000	6.00000	19.50000	-1.2457	19.083	0.0	0.0	0.0
	44.00000	6.00000	19.50000	-1.0154	19.083	0.0	0.0	0.0
	45.00000	6.00000	19.50000	-0.82747	19.083	0.0	0.0	0.0
	46.00000	6.00000	19.50000	-0.67342	19.083	0.0	0.0	0.0
	47.00000	6.00000	19.50000	-0.54665	19.083	0.0	0.0	0.0
	48.00000	6.00000	19.50000	-0.44203	19.083	0.0	0.0	0.0
	49.00000	6.00000	19.50000	-0.35547	19.083	0.0	0.0	0.0
	50.00000	6.00000	19.50000	-0.28371	19.083	0.0	0.0	0.0
	51.00000	6.00000	19.50000	-0.22415	19.083	0.0	0.0	0.0
	52.00000	6.00000	19.50000	-0.17466	19.083	0.0	0.0	0.0
	53.00000	6.00000	19.50000	-0.13351	19.083	0.0	0.0	0.0
	54.00000	6.00000	19.50000	-0.099303	19.083	0.0	0.0	0.0
	55.00000	6.00000	19.50000	-0.070871	19.083	0.0	0.0	0.0
	-25.00000	7.00000	19.50000	-0.030834	19.083	0.0	0.0	0.0
	-24.00000	7.00000	19.50000	-0.049015	19.083	0.0	0.0	0.0
	-23.00000	7.00000	19.50000	-0.070734	19.083	0.0	0.0	0.0
	-22.00000	7.00000	19.50000	-0.096650	19.083	0.0	0.0	0.0
	-21.00000	7.00000	19.50000	-0.12755	19.083	0.0	0.0	0.0
	-20.00000	7.00000	19.50000	-0.16437	19.083	0.0	0.0	0.0
	-19.00000	7.00000	19.50000	-0.20825	19.083	0.0	0.0	0.0
	-18.00000	7.00000	19.50000	-0.26057	19.083	0.0	0.0	0.0
	-17.00000	7.00000	19.50000	-0.32297	19.083	0.0	0.0	0.0
	-16.00000	7.00000	19.50000	-0.39748	19.083	0.0	0.0	0.0
	-15.00000	7.00000	19.50000	-0.48656	19.083	0.0	0.0	0.0
	-14.00000	7.00000	19.50000	-0.59325	19.083	0.0	0.0	0.0
	-13.00000	7.00000	19.50000	-0.72130	19.083	0.0	0.0	0.0
	-12.00000	7.00000	19.50000	-0.87535	19.083	0.0	0.0	0.0
	-11.00000	7.00000	19.50000	-1.0613	19.083	0.0	0.0	0.0
	-10.00000	7.00000	19.50000	-1.2865	19.083	0.0	0.0	0.0
	-9.00000	7.00000	19.50000	-1.5605	19.083	0.0	0.0	0.0
	-8.00000	7.00000	19.50000	-1.8955	19.083	0.0	0.0	0.0
	-7.00000	7.00000	19.50000	-2.3080	19.083	0.0	0.0	0.0
	-6.00000	7.00000	19.50000	-2.8199	19.083	0.0	0.0	0.0
	-5.00000	7.00000	19.50000	-3.4618	19.083	0.0	0.0	0.0
	-4.00000	7.00000	19.50000	-4.2782	19.083	0.0	0.0	0.0
	-3.00000	7.00000	19.50000	-5.3375	19.083	0.0	0.0	0.0
	-2.00000	7.00000	19.50000	-6.7579	19.083	0.0	0.0	0.0
	-1.00000	7.00000	19.50000	-8.7809	19.083	0.0	0.0	0.0
	0.00000	7.00000	19.50000	-12.073	19.083	0.0	0.0	0.0
	1.00000	7.00000	19.50000	-15.363	19.083	0.0	0.0	0.0
	2.00000	7.00000	19.50000	-17.380	19.083	0.0	0.0	0.0
	3.00000	7.00000	19.50000	-18.791	19.083	0.0	0.0	0.0
	4.00000	7.00000	19.50000	-19.837	19.083	0.0	0.0	0.0
	5.00000	7.00000	19.50000	-20.636	19.083	0.0	0.0	0.0
	6.00000	7.00000	19.50000	-21.256	19.083	0.0	0.0	0.0
	7.00000	7.00000	19.50000	-21.740	19.083	0.0	0.0	0.0
	8.00000	7.00000	19.50000	-22.119	19.083	0.0	0.0	0.0
	9.00000	7.00000	19.50000	-22.413	19.083	0.0	0.0	0.0
	10.00000	7.00000	19.50000	-22.639	19.083	0.0	0.0	0.0
	11.00000	7.00000	19.50000	-22.807	19.083	0.0	0.0	0.0
	12.00000	7.00000	19.50000	-22.925	19.083	0.0	0.0	0.0
	13.00000	7.00000	19.50000	-22.999	19.083	0.0	0.0	0.0
	14.00000	7.00000	19.50000	-23.032	19.083	0.0	0.0	0.0
	15.00000	7.00000	19.50000	-23.027	19.083	0.0	0.0	0.0
	16.00000	7.00000	19.50000	-22.982	19.083	0.0	0.0	0.0
	17.00000	7.00000	19.50000	-22.896	19.083	0.0	0.0	0.0
	18.00000	7.00000	19.50000	-22.760	19.083	0.0	0.0	0.0
	19.00000	7.00000	19.50000	-22.561	19.083	0.0	0.0	0.0
	20.00000	7.00000	19.50000	-22.848	19.083	0.0	0.0	0.0
	21.00000	7.00000	19.50000	-23.110	19.083	0.0	0.0	0.0
	22.00000	7.00000	19.50000	-22.833	19.083	0.0	0.0	0.0
	23.00000	7.00000	19.50000	-22.565	19.083	0.0	0.0	0.0
	24.00000	7.00000	19.50000	-22.285	19.083	0.0	0.0	0.0
	25.00000	7.00000	19.50000	-21.976	19.083	0.0	0.0	0.0
	26.00000	7.00000	19.50000	-21.624	19.083	0.0	0.0	0.0
	27.00000	7.00000	19.50000	-21.212	19.083	0.0	0.0	0.0
	28.00000	7.00000	19.50000	-20.716	19.083	0.0	0.0	0.0
	29.00000	7.00000	19.50000	-20.107	19.083	0.0	0.0	0.0
	30.00000	7.00000	19.50000	-19.343	19.083	0.0	0.0	0.0
	31.00000	7.00000	19.50000	-18.358	19.083	0.0	0.0	0.0
	32.00000	7.00000	19.50000	-17.042	19.083	0.0	0.0	0.0
	33.00000	7.00000	19.50000	-15.166	19.083	0.0	0.0	0.0
	34.00000	7.00000	19.50000	-11.513	19.083	0.0	0.0	0.0
	35.00000	7.00000	19.50000	-7.8626	19.083	0.0	0.0	0.0
	36.00000	7.00000	19.50000	-5.9947	19.083	0.0	0.0	0.0
	37.00000	7.00000	19.50000	-4.6916	19.083	0.0	0.0	0.0
	38.00000	7.00000	19.50000	-3.7255	19.083	0.0	0.0	0.0
	39.00000	7.00000	19.50000	-2.9862	19.083	0.0	0.0	0.0
	40.00000	7.00000	19.50000	-2.4092	19.083	0.0	0.0	0.0
	41.00000	7.00000	19.50000	-1.9525	19.083	0.0	0.0	0.0
	42.00000	7.00000	19.50000	-1.5873	19.083	0.0	0.0	0.0
	43.00000	7.00000	19.50000	-1.2928	19.083	0.0	0.0	0.0
	44.00000	7.00000	19.50000	-1.0538	19.083	0.0	0.0	0.0
	45.00000	7.00000	19.50000	-0.85884	19.083	0.0	0.0	0.0
	46.00000	7.00000	19.50000	-0.69901	19.083	0.0	0.0	0.0
	47.00000	7.00000	19.50000	-0.56754	19.083	0.0	0.0	0.0
	48.00000	7.00000	19.50000	-0.45908	19.083	0.0	0.0	0.0
	49.00000	7.00000	19.50000	-0.36939	19.083	0.0	0.0	0.0
	50.00000	7.00000	19.50000	-0.29508	19.083	0.0	0.0	0.0
	51.00000	7.00000	19.50000	-0.23343	19.083	0.0	0.0	0.0
	52.00000	7.00000	19.50000	-0.18224	19.083	0.0	0.0	0.0
	53.00000	7.00000	19.50000	-0.13970	19.083	0.0	0.0	0.0
	54.00000	7.00000	19.50000	-0.10435	19.083	0.0	0.0	0.0
	55.00000	7.00000	19.50000	-0.07493	19.083	0.0	0.0	0.0
	-25.00000	8.00000	19.50000	-0.032950	19.083	0.0	0.0	0.0
	-24.00000	8.00000	19.50000	-0.051594	19.083	0.0	0.0	0.0
	-23.00000	8.00000	19.50000	-0.073873	19.083	0.0	0.0	0.0
	-22.00000	8.00000	19.50000	-0.10046	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
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Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [MOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-21.00000	8.00000	19.50000	-0.13218	19.083	0.0	0.0
	-20.00000	8.00000	19.50000	-0.16999	19.083	0.0	0.0
	-19.00000	8.00000	19.50000	-0.21507	19.083	0.0	0.0
	-18.00000	8.00000	19.50000	-0.26884	19.083	0.0	0.0
	-17.00000	8.00000	19.50000	-0.33301	19.083	0.0	0.0
	-16.00000	8.00000	19.50000	-0.40966	19.083	0.0	0.0
	-15.00000	8.00000	19.50000	-0.50134	19.083	0.0	0.0
	-14.00000	8.00000	19.50000	-0.61119	19.083	0.0	0.0
	-13.00000	8.00000	19.50000	-0.74306	19.083	0.0	0.0
	-12.00000	8.00000	19.50000	-0.90177	19.083	0.0	0.0
	-11.00000	8.00000	19.50000	-1.0933	19.083	0.0	0.0
	-10.00000	8.00000	19.50000	-1.3254	19.083	0.0	0.0
	-9.00000	8.00000	19.50000	-1.6076	19.083	0.0	0.0
	-8.00000	8.00000	19.50000	-1.9527	19.083	0.0	0.0
	-7.00000	8.00000	19.50000	-2.3771	19.083	0.0	0.0
	-6.00000	8.00000	19.50000	-2.9031	19.083	0.0	0.0
	-5.00000	8.00000	19.50000	-3.5617	19.083	0.0	0.0
	-4.00000	8.00000	19.50000	-4.3972	19.083	0.0	0.0
	-3.00000	8.00000	19.50000	-5.4785	19.083	0.0	0.0
	-2.00000	8.00000	19.50000	-6.9230	19.083	0.0	0.0
	-1.00000	8.00000	19.50000	-8.9720	19.083	0.0	0.0
	0.00000	8.00000	19.50000	-12.291	19.083	0.0	0.0
	1.00000	8.00000	19.50000	-15.608	19.083	0.0	0.0
	2.00000	8.00000	19.50000	-17.651	19.083	0.0	0.0
	3.00000	8.00000	19.50000	-19.086	19.083	0.0	0.0
	4.00000	8.00000	19.50000	-20.154	19.083	0.0	0.0
	5.00000	8.00000	19.50000	-20.971	19.083	0.0	0.0
	6.00000	8.00000	19.50000	-21.607	19.083	0.0	0.0
	7.00000	8.00000	19.50000	-22.104	19.083	0.0	0.0
	8.00000	8.00000	19.50000	-22.494	19.083	0.0	0.0
	9.00000	8.00000	19.50000	-22.798	19.083	0.0	0.0
	10.00000	8.00000	19.50000	-23.030	19.083	0.0	0.0
	11.00000	8.00000	19.50000	-23.204	19.083	0.0	0.0
	12.00000	8.00000	19.50000	-23.325	19.083	0.0	0.0
	13.00000	8.00000	19.50000	-23.402	19.083	0.0	0.0
	14.00000	8.00000	19.50000	-23.436	19.083	0.0	0.0
	15.00000	8.00000	19.50000	-23.431	19.083	0.0	0.0
	16.00000	8.00000	19.50000	-23.385	19.083	0.0	0.0
	17.00000	8.00000	19.50000	-23.297	19.083	0.0	0.0
	18.00000	8.00000	19.50000	-23.158	19.083	0.0	0.0
	19.00000	8.00000	19.50000	-22.955	19.083	0.0	0.0
	20.00000	8.00000	19.50000	-23.238	19.083	0.0	0.0
	21.00000	8.00000	19.50000	-23.494	19.083	0.0	0.0
	22.00000	8.00000	19.50000	-23.212	19.083	0.0	0.0
	23.00000	8.00000	19.50000	-22.936	19.083	0.0	0.0
	24.00000	8.00000	19.50000	-22.648	19.083	0.0	0.0
	25.00000	8.00000	19.50000	-22.331	19.083	0.0	0.0
	26.00000	8.00000	19.50000	-21.968	19.083	0.0	0.0
	27.00000	8.00000	19.50000	-21.544	19.083	0.0	0.0
	28.00000	8.00000	19.50000	-21.034	19.083	0.0	0.0
	29.00000	8.00000	19.50000	-20.410	19.083	0.0	0.0
	30.00000	8.00000	19.50000	-19.628	19.083	0.0	0.0
	31.00000	8.00000	19.50000	-18.623	19.083	0.0	0.0
	32.00000	8.00000	19.50000	-17.284	19.083	0.0	0.0
	33.00000	8.00000	19.50000	-15.384	19.083	0.0	0.0
	34.00000	8.00000	19.50000	-11.707	19.083	0.0	0.0
	35.00000	8.00000	19.50000	-8.0315	19.083	0.0	0.0
	36.00000	8.00000	19.50000	-6.1400	19.083	0.0	0.0
	37.00000	8.00000	19.50000	-4.8150	19.083	0.0	0.0
	38.00000	8.00000	19.50000	-3.8292	19.083	0.0	0.0
	39.00000	8.00000	19.50000	-3.0727	19.083	0.0	0.0
	40.00000	8.00000	19.50000	-2.4809	19.083	0.0	0.0
	41.00000	8.00000	19.50000	-2.0117	19.083	0.0	0.0
	42.00000	8.00000	19.50000	-1.6360	19.083	0.0	0.0
	43.00000	8.00000	19.50000	-1.3328	19.083	0.0	0.0
	44.00000	8.00000	19.50000	-1.0866	19.083	0.0	0.0
	45.00000	8.00000	19.50000	-0.88566	19.083	0.0	0.0
	46.00000	8.00000	19.50000	-0.72096	19.083	0.0	0.0
	47.00000	8.00000	19.50000	-0.58550	19.083	0.0	0.0
	48.00000	8.00000	19.50000	-0.47377	19.083	0.0	0.0
	49.00000	8.00000	19.50000	-0.38140	19.083	0.0	0.0
	50.00000	8.00000	19.50000	-0.30490	19.083	0.0	0.0
	51.00000	8.00000	19.50000	-0.24146	19.083	0.0	0.0
	52.00000	8.00000	19.50000	-0.18880	19.083	0.0	0.0
	53.00000	8.00000	19.50000	-0.14506	19.083	0.0	0.0
	54.00000	8.00000	19.50000	-0.10872	19.083	0.0	0.0
	55.00000	8.00000	19.50000	-0.078546	19.083	0.0	0.0
	-25.00000	9.00000	19.50000	-0.034715	19.083	0.0	0.0
	-24.00000	9.00000	19.50000	-0.053745	19.083	0.0	0.0
	-23.00000	9.00000	19.50000	-0.076491	19.083	0.0	0.0
	-22.00000	9.00000	19.50000	-0.10365	19.083	0.0	0.0
	-21.00000	9.00000	19.50000	-0.13604	19.083	0.0	0.0
	-20.00000	9.00000	19.50000	-0.17468	19.083	0.0	0.0
	-19.00000	9.00000	19.50000	-0.22076	19.083	0.0	0.0
	-18.00000	9.00000	19.50000	-0.27573	19.083	0.0	0.0
	-17.00000	9.00000	19.50000	-0.34136	19.083	0.0	0.0
	-16.00000	9.00000	19.50000	-0.41979	19.083	0.0	0.0
	-15.00000	9.00000	19.50000	-0.51362	19.083	0.0	0.0
	-14.00000	9.00000	19.50000	-0.62607	19.083	0.0	0.0
	-13.00000	9.00000	19.50000	-0.76110	19.083	0.0	0.0
	-12.00000	9.00000	19.50000	-0.92362	19.083	0.0	0.0
	-11.00000	9.00000	19.50000	-1.1198	19.083	0.0	0.0
	-10.00000	9.00000	19.50000	-1.3574	19.083	0.0	0.0
	-9.00000	9.00000	19.50000	-1.6462	19.083	0.0	0.0
	-8.00000	9.00000	19.50000	-1.9992	19.083	0.0	0.0
	-7.00000	9.00000	19.50000	-2.4330	19.083	0.0	0.0
	-6.00000	9.00000	19.50000	-2.9701	19.083	0.0	0.0
	-5.00000	9.00000	19.50000	-3.6414	19.083	0.0	0.0
	-4.00000	9.00000	19.50000	-4.4916	19.083	0.0	0.0
	-3.00000	9.00000	19.50000	-5.5892	19.083	0.0	0.0
	-2.00000	9.00000	19.50000	-7.0516	19.083	0.0	0.0
	-1.00000	9.00000	19.50000	-9.1196	19.083	0.0	0.0
	0.00000	9.00000	19.50000	-12.458	19.083	0.0	0.0
	1.00000	9.00000	19.50000	-15.795	19.083	0.0	0.0
	2.00000	9.00000	19.50000	-17.857	19.083	0.0	0.0
	3.00000	9.00000	19.50000	-19.310	19.083	0.0	0.0
	4.00000	9.00000	19.50000	-20.393	19.083	0.0	0.0
	5.00000	9.00000	19.50000	-21.225	19.083	0.0	0.0
	6.00000	9.00000	19.50000	-21.873	19.083	0.0	0.0
	7.00000	9.00000	19.50000	-22.381	19.083	0.0	0.0
	8.00000	9.00000	19.50000	-22.779	19.083	0.0	0.0
	9.00000	9.00000	19.50000	-23.090	19.083	0.0	0.0
	10.00000	9.00000	19.50000	-23.328	19.083	0.0	0.0
	11.00000	9.00000	19.50000	-23.505	19.083	0.0	0.0
	12.00000	9.00000	19.50000	-23.630	19.083	0.0	0.0
	13.00000	9.00000	19.50000	-23.708	19.083	0.0	0.0
	14.00000	9.00000	19.50000	-23.744	19.083	0.0	0.0
	15.00000	9.00000	19.50000	-23.738	19.083	0.0	0.0
	16.00000	9.00000	19.50000	-23.692	19.083	0.0	0.0
	17.00000	9.00000	19.50000	-23.602	19.083	0.0	0.0
	18.00000	9.00000	19.50000	-23.461	19.083	0.0	0.0
	19.00000	9.00000	19.50000	-23.256	19.083	0.0	0.0
	20.00000	9.00000	19.50000	-23.535	19.083	0.0	0.0
	21.00000	9.00000	19.50000	-23.787	19.083	0.0	0.0
	22.00000	9.00000	19.50000	-23.500	19.083	0.0	0.0
	23.00000	9.00000	19.50000	-23.219	19.083	0.0	0.0
	24.00000	9.00000	19.50000	-22.924	19.083	0.0	0.0
	25.00000	9.00000	19.50000	-22.599	19.083	0.0	0.0
	26.00000	9.00000	19.50000	-22.229	19.083	0.0	0.0
	27.00000	9.00000	19.50000	-21.795	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	28.00000	9.00000	19.50000	-21.275	19.083	0.0	0.0
	29.00000	9.00000	19.50000	-20.638	19.083	0.0	0.0
	30.00000	9.00000	19.50000	-19.842	19.083	0.0	0.0
	31.00000	9.00000	19.50000	-18.822	19.083	0.0	0.0
	32.00000	9.00000	19.50000	-17.467	19.083	0.0	0.0
	33.00000	9.00000	19.50000	-15.550	19.083	0.0	0.0
	34.00000	9.00000	19.50000	-11.854	19.083	0.0	0.0
	35.00000	9.00000	19.50000	-8.1615	19.083	0.0	0.0
	36.00000	9.00000	19.50000	-6.2527	19.083	0.0	0.0
	37.00000	9.00000	19.50000	-4.9117	19.083	0.0	0.0
	38.00000	9.00000	19.50000	-3.9113	19.083	0.0	0.0
	39.00000	9.00000	19.50000	-3.1417	19.083	0.0	0.0
	40.00000	9.00000	19.50000	-2.5385	19.083	0.0	0.0
	41.00000	9.00000	19.50000	-2.0596	19.083	0.0	0.0
	42.00000	9.00000	19.50000	-1.6756	19.083	0.0	0.0
	43.00000	9.00000	19.50000	-1.3655	19.083	0.0	0.0
	44.00000	9.00000	19.50000	-1.1135	19.083	0.0	0.0
	45.00000	9.00000	19.50000	-0.90776	19.083	0.0	0.0
	46.00000	9.00000	19.50000	-0.73910	19.083	0.0	0.0
	47.00000	9.00000	19.50000	-0.60037	19.083	0.0	0.0
	48.00000	9.00000	19.50000	-0.48595	19.083	0.0	0.0
	49.00000	9.00000	19.50000	-0.39138	19.083	0.0	0.0
	50.00000	9.00000	19.50000	-0.31307	19.083	0.0	0.0
	51.00000	9.00000	19.50000	-0.24815	19.083	0.0	0.0
	52.00000	9.00000	19.50000	-0.19426	19.083	0.0	0.0
	53.00000	9.00000	19.50000	-0.14952	19.083	0.0	0.0
	54.00000	9.00000	19.50000	-0.11237	19.083	0.0	0.0
	55.00000	9.00000	19.50000	-0.081518	19.083	0.0	0.0
	-25.00000	10.00000	19.50000	-0.036110	19.083	0.0	0.0
	-24.00000	10.00000	19.50000	-0.055445	19.083	0.0	0.0
	-23.00000	10.00000	19.50000	-0.078558	19.083	0.0	0.0
	-22.00000	10.00000	19.50000	-0.10616	19.083	0.0	0.0
	-21.00000	10.00000	19.50000	-0.13909	19.083	0.0	0.0
	-20.00000	10.00000	19.50000	-0.17838	19.083	0.0	0.0
	-19.00000	10.00000	19.50000	-0.22524	19.083	0.0	0.0
	-18.00000	10.00000	19.50000	-0.28117	19.083	0.0	0.0
	-17.00000	10.00000	19.50000	-0.34795	19.083	0.0	0.0
	-16.00000	10.00000	19.50000	-0.42777	19.083	0.0	0.0
	-15.00000	10.00000	19.50000	-0.52328	19.083	0.0	0.0
	-14.00000	10.00000	19.50000	-0.63777	19.083	0.0	0.0
	-13.00000	10.00000	19.50000	-0.77525	19.083	0.0	0.0
	-12.00000	10.00000	19.50000	-0.94073	19.083	0.0	0.0
	-11.00000	10.00000	19.50000	-1.1405	19.083	0.0	0.0
	-10.00000	10.00000	19.50000	-1.3823	19.083	0.0	0.0
	-9.00000	10.00000	19.50000	-1.6763	19.083	0.0	0.0
	-8.00000	10.00000	19.50000	-2.0252	19.083	0.0	0.0
	-7.00000	10.00000	19.50000	-2.4761	19.083	0.0	0.0
	-6.00000	10.00000	19.50000	-3.0214	19.083	0.0	0.0
	-5.00000	10.00000	19.50000	-3.7022	19.083	0.0	0.0
	-4.00000	10.00000	19.50000	-4.5630	19.083	0.0	0.0
	-3.00000	10.00000	19.50000	-5.6724	19.083	0.0	0.0
	-2.00000	10.00000	19.50000	-7.1477	19.083	0.0	0.0
	-1.00000	10.00000	19.50000	-9.2292	19.083	0.0	0.0
	0.00000	10.00000	19.50000	-12.582	19.083	0.0	0.0
	1.00000	10.00000	19.50000	-15.932	19.083	0.0	0.0
	2.00000	10.00000	19.50000	-18.008	19.083	0.0	0.0
	3.00000	10.00000	19.50000	-19.473	19.083	0.0	0.0
	4.00000	10.00000	19.50000	-20.568	19.083	0.0	0.0
	5.00000	10.00000	19.50000	-21.410	19.083	0.0	0.0
	6.00000	10.00000	19.50000	-22.067	19.083	0.0	0.0
	7.00000	10.00000	19.50000	-22.583	19.083	0.0	0.0
	8.00000	10.00000	19.50000	-22.988	19.083	0.0	0.0
	9.00000	10.00000	19.50000	-23.304	19.083	0.0	0.0
	10.00000	10.00000	19.50000	-23.546	19.083	0.0	0.0
	11.00000	10.00000	19.50000	-23.727	19.083	0.0	0.0
	12.00000	10.00000	19.50000	-23.854	19.083	0.0	0.0
	13.00000	10.00000	19.50000	-23.934	19.083	0.0	0.0
	14.00000	10.00000	19.50000	-23.970	19.083	0.0	0.0
	15.00000	10.00000	19.50000	-23.964	19.083	0.0	0.0
	16.00000	10.00000	19.50000	-23.918	19.083	0.0	0.0
	17.00000	10.00000	19.50000	-23.827	19.083	0.0	0.0
	18.00000	10.00000	19.50000	-23.684	19.083	0.0	0.0
	19.00000	10.00000	19.50000	-23.477	19.083	0.0	0.0
	20.00000	10.00000	19.50000	-23.753	19.083	0.0	0.0
	21.00000	10.00000	19.50000	-24.002	19.083	0.0	0.0
	22.00000	10.00000	19.50000	-23.711	19.083	0.0	0.0
	23.00000	10.00000	19.50000	-23.426	19.083	0.0	0.0
	24.00000	10.00000	19.50000	-23.126	19.083	0.0	0.0
	25.00000	10.00000	19.50000	-22.796	19.083	0.0	0.0
	26.00000	10.00000	19.50000	-22.420	19.083	0.0	0.0
	27.00000	10.00000	19.50000	-21.979	19.083	0.0	0.0
	28.00000	10.00000	19.50000	-21.450	19.083	0.0	0.0
	29.00000	10.00000	19.50000	-20.805	19.083	0.0	0.0
	30.00000	10.00000	19.50000	-19.999	19.083	0.0	0.0
	31.00000	10.00000	19.50000	-18.968	19.083	0.0	0.0
	32.00000	10.00000	19.50000	-17.601	19.083	0.0	0.0
	33.00000	10.00000	19.50000	-15.672	19.083	0.0	0.0
	34.00000	10.00000	19.50000	-11.963	19.083	0.0	0.0
	35.00000	10.00000	19.50000	-8.2577	19.083	0.0	0.0
	36.00000	10.00000	19.50000	-6.3368	19.083	0.0	0.0
	37.00000	10.00000	19.50000	-4.9842	19.083	0.0	0.0
	38.00000	10.00000	19.50000	-3.9732	19.083	0.0	0.0
	39.00000	10.00000	19.50000	-3.1942	19.083	0.0	0.0
	40.00000	10.00000	19.50000	-2.5826	19.083	0.0	0.0
	41.00000	10.00000	19.50000	-2.0964	19.083	0.0	0.0
	42.00000	10.00000	19.50000	-1.7062	19.083	0.0	0.0
	43.00000	10.00000	19.50000	-1.3909	19.083	0.0	0.0
	44.00000	10.00000	19.50000	-1.1345	19.083	0.0	0.0
	45.00000	10.00000	19.50000	-0.92503	19.083	0.0	0.0
	46.00000	10.00000	19.50000	-0.75330	19.083	0.0	0.0
	47.00000	10.00000	19.50000	-0.61204	19.083	0.0	0.0
	48.00000	10.00000	19.50000	-0.49553	19.083	0.0	0.0
	49.00000	10.00000	19.50000	-0.39923	19.083	0.0	0.0
	50.00000	10.00000	19.50000	-0.31951	19.083	0.0	0.0
	51.00000	10.00000	19.50000	-0.25341	19.083	0.0	0.0
	52.00000	10.00000	19.50000	-0.19377	19.083	0.0	0.0
	53.00000	10.00000	19.50000	-0.15305	19.083	0.0	0.0
	54.00000	10.00000	19.50000	-0.11524	19.083	0.0	0.0
	55.00000	10.00000	19.50000	-0.083865	19.083	0.0	0.0
	-25.00000	11.00000	19.50000	-0.037118	19.083	0.0	0.0
	-24.00000	11.00000	19.50000	-0.056673	19.083	0.0	0.0
	-23.00000	11.00000	19.50000	-0.080051	19.083	0.0	0.0
	-22.00000	11.00000	19.50000	-0.10797	19.083	0.0	0.0
	-21.00000	11.00000	19.50000	-0.14129	19.083	0.0	0.0
	-20.00000	11.00000	19.50000	-0.18105	19.083	0.0	0.0
	-19.00000	11.00000	19.50000	-0.22848	19.083	0.0	0.0
	-18.00000	11.00000	19.50000	-0.28509	19.083	0.0	0.0
	-17.00000	11.00000	19.50000	-0.35270	19.083	0.0	0.0
	-16.00000	11.00000	19.50000	-0.43352	19.083	0.0	0.0
	-15.00000	11.00000	19.50000	-0.53024	19.083	0.0	0.0
	-14.00000	11.00000	19.50000	-0.64619	19.083	0.0	0.0
	-13.00000	11.00000	19.50000	-0.78543	19.083	0.0	0.0
	-12.00000	11.00000	19.50000	-0.95302	19.083	0.0	0.0
	-11.00000	11.00000	19.50000	-1.1553	19.083	0.0	0.0
	-10.00000	11.00000	19.50000	-1.4001	19.083	0.0	0.0
	-9.00000	11.00000	19.50000	-1.6977	19.083	0.0	0.0
	-8.00000	11.00000	19.50000	-2.0609	19.083	0.0	0.0
	-7.00000	11.00000	19.50000	-2.5067	19.083	0.0	0.0
	-6.00000	11.00000	19.50000	-3.0576	19.083	0.0	0.0
	-5.00000	11.00000	19.50000	-3.7449	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-4.00000	11.00000	19.50000	-4.6130	19.083	0.0	0.0
	-3.00000	11.00000	19.50000	-5.7304	19.083	0.0	0.0
	-2.00000	11.00000	19.50000	-7.2142	19.083	0.0	0.0
	-1.00000	11.00000	19.50000	-9.3048	19.083	0.0	0.0
	0.00000	11.00000	19.50000	-12.666	19.083	0.0	0.0
	1.00000	11.00000	19.50000	-16.026	19.083	0.0	0.0
	2.00000	11.00000	19.50000	-18.111	19.083	0.0	0.0
	3.00000	11.00000	19.50000	-19.585	19.083	0.0	0.0
	4.00000	11.00000	19.50000	-20.688	19.083	0.0	0.0
	5.00000	11.00000	19.50000	-21.537	19.083	0.0	0.0
	6.00000	11.00000	19.50000	-22.200	19.083	0.0	0.0
	7.00000	11.00000	19.50000	-22.721	19.083	0.0	0.0
	8.00000	11.00000	19.50000	-23.130	19.083	0.0	0.0
	9.00000	11.00000	19.50000	-23.450	19.083	0.0	0.0
	10.00000	11.00000	19.50000	-23.695	19.083	0.0	0.0
	11.00000	11.00000	19.50000	-23.878	19.083	0.0	0.0
	12.00000	11.00000	19.50000	-24.007	19.083	0.0	0.0
	13.00000	11.00000	19.50000	-24.088	19.083	0.0	0.0
	14.00000	11.00000	19.50000	-24.125	19.083	0.0	0.0
	15.00000	11.00000	19.50000	-24.119	19.083	0.0	0.0
	16.00000	11.00000	19.50000	-24.072	19.083	0.0	0.0
	17.00000	11.00000	19.50000	-23.981	19.083	0.0	0.0
	18.00000	11.00000	19.50000	-23.837	19.083	0.0	0.0
	19.00000	11.00000	19.50000	-23.628	19.083	0.0	0.0
	20.00000	11.00000	19.50000	-23.902	19.083	0.0	0.0
	21.00000	11.00000	19.50000	-24.149	19.083	0.0	0.0
	22.00000	11.00000	19.50000	-23.855	19.083	0.0	0.0
	23.00000	11.00000	19.50000	-23.567	19.083	0.0	0.0
	24.00000	11.00000	19.50000	-23.265	19.083	0.0	0.0
	25.00000	11.00000	19.50000	-22.931	19.083	0.0	0.0
	26.00000	11.00000	19.50000	-22.550	19.083	0.0	0.0
	27.00000	11.00000	19.50000	-22.104	19.083	0.0	0.0
	28.00000	11.00000	19.50000	-21.570	19.083	0.0	0.0
	29.00000	11.00000	19.50000	-20.919	19.083	0.0	0.0
	30.00000	11.00000	19.50000	-20.106	19.083	0.0	0.0
	31.00000	11.00000	19.50000	-19.067	19.083	0.0	0.0
	32.00000	11.00000	19.50000	-17.693	19.083	0.0	0.0
	33.00000	11.00000	19.50000	-15.755	19.083	0.0	0.0
	34.00000	11.00000	19.50000	-12.038	19.083	0.0	0.0
	35.00000	11.00000	19.50000	-8.3240	19.083	0.0	0.0
	36.00000	11.00000	19.50000	-6.3949	19.083	0.0	0.0
	37.00000	11.00000	19.50000	-5.0346	19.083	0.0	0.0
	38.00000	11.00000	19.50000	-4.0165	19.083	0.0	0.0
	39.00000	11.00000	19.50000	-3.2310	19.083	0.0	0.0
	40.00000	11.00000	19.50000	-2.6137	19.083	0.0	0.0
	41.00000	11.00000	19.50000	-2.1225	19.083	0.0	0.0
	42.00000	11.00000	19.50000	-1.7280	19.083	0.0	0.0
	43.00000	11.00000	19.50000	-1.4089	19.083	0.0	0.0
	44.00000	11.00000	19.50000	-1.1494	19.083	0.0	0.0
	45.00000	11.00000	19.50000	-0.93740	19.083	0.0	0.0
	46.00000	11.00000	19.50000	-0.76349	19.083	0.0	0.0
	47.00000	11.00000	19.50000	-0.62043	19.083	0.0	0.0
	48.00000	11.00000	19.50000	-0.50242	19.083	0.0	0.0
	49.00000	11.00000	19.50000	-0.40489	19.083	0.0	0.0
	50.00000	11.00000	19.50000	-0.32414	19.083	0.0	0.0
	51.00000	11.00000	19.50000	-0.25721	19.083	0.0	0.0
	52.00000	11.00000	19.50000	-0.20168	19.083	0.0	0.0
	53.00000	11.00000	19.50000	-0.15559	19.083	0.0	0.0
	54.00000	11.00000	19.50000	-0.11732	19.083	0.0	0.0
	55.00000	11.00000	19.50000	-0.08560	19.083	0.0	0.0
	-25.00000	12.00000	19.50000	-0.03727	19.083	0.0	0.0
	-24.00000	12.00000	19.50000	-0.057415	19.083	0.0	0.0
	-23.00000	12.00000	19.50000	-0.080954	19.083	0.0	0.0
	-22.00000	12.00000	19.50000	-0.10907	19.083	0.0	0.0
	-21.00000	12.00000	19.50000	-0.14263	19.083	0.0	0.0
	-20.00000	12.00000	19.50000	-0.18266	19.083	0.0	0.0
	-19.00000	12.00000	19.50000	-0.23044	19.083	0.0	0.0
	-18.00000	12.00000	19.50000	-0.28746	19.083	0.0	0.0
	-17.00000	12.00000	19.50000	-0.35557	19.083	0.0	0.0
	-16.00000	12.00000	19.50000	-0.43699	19.083	0.0	0.0
	-15.00000	12.00000	19.50000	-0.53444	19.083	0.0	0.0
	-14.00000	12.00000	19.50000	-0.65126	19.083	0.0	0.0
	-13.00000	12.00000	19.50000	-0.79156	19.083	0.0	0.0
	-12.00000	12.00000	19.50000	-0.96041	19.083	0.0	0.0
	-11.00000	12.00000	19.50000	-1.1642	19.083	0.0	0.0
	-10.00000	12.00000	19.50000	-1.4108	19.083	0.0	0.0
	-9.00000	12.00000	19.50000	-1.7105	19.083	0.0	0.0
	-8.00000	12.00000	19.50000	-2.0762	19.083	0.0	0.0
	-7.00000	12.00000	19.50000	-2.5249	19.083	0.0	0.0
	-6.00000	12.00000	19.50000	-3.0792	19.083	0.0	0.0
	-5.00000	12.00000	19.50000	-3.7702	19.083	0.0	0.0
	-4.00000	12.00000	19.50000	-4.6425	19.083	0.0	0.0
	-3.00000	12.00000	19.50000	-5.7646	19.083	0.0	0.0
	-2.00000	12.00000	19.50000	-7.2534	19.083	0.0	0.0
	-1.00000	12.00000	19.50000	-9.3492	19.083	0.0	0.0
	0.00000	12.00000	19.50000	-12.716	19.083	0.0	0.0
	1.00000	12.00000	19.50000	-16.081	19.083	0.0	0.0
	2.00000	12.00000	19.50000	-18.171	19.083	0.0	0.0
	3.00000	12.00000	19.50000	-19.650	19.083	0.0	0.0
	4.00000	12.00000	19.50000	-20.757	19.083	0.0	0.0
	5.00000	12.00000	19.50000	-21.610	19.083	0.0	0.0
	6.00000	12.00000	19.50000	-22.277	19.083	0.0	0.0
	7.00000	12.00000	19.50000	-22.801	19.083	0.0	0.0
	8.00000	12.00000	19.50000	-23.213	19.083	0.0	0.0
	9.00000	12.00000	19.50000	-23.535	19.083	0.0	0.0
	10.00000	12.00000	19.50000	-23.782	19.083	0.0	0.0
	11.00000	12.00000	19.50000	-23.966	19.083	0.0	0.0
	12.00000	12.00000	19.50000	-24.096	19.083	0.0	0.0
	13.00000	12.00000	19.50000	-24.178	19.083	0.0	0.0
	14.00000	12.00000	19.50000	-24.215	19.083	0.0	0.0
	15.00000	12.00000	19.50000	-24.210	19.083	0.0	0.0
	16.00000	12.00000	19.50000	-24.163	19.083	0.0	0.0
	17.00000	12.00000	19.50000	-24.070	19.083	0.0	0.0
	18.00000	12.00000	19.50000	-23.926	19.083	0.0	0.0
	19.00000	12.00000	19.50000	-23.716	19.083	0.0	0.0
	20.00000	12.00000	19.50000	-23.990	19.083	0.0	0.0
	21.00000	12.00000	19.50000	-24.235	19.083	0.0	0.0
	22.00000	12.00000	19.50000	-23.940	19.083	0.0	0.0
	23.00000	12.00000	19.50000	-23.650	19.083	0.0	0.0
	24.00000	12.00000	19.50000	-23.345	19.083	0.0	0.0
	25.00000	12.00000	19.50000	-23.009	19.083	0.0	0.0
	26.00000	12.00000	19.50000	-22.626	19.083	0.0	0.0
	27.00000	12.00000	19.50000	-22.177	19.083	0.0	0.0
	28.00000	12.00000	19.50000	-21.640	19.083	0.0	0.0
	29.00000	12.00000	19.50000	-20.985	19.083	0.0	0.0
	30.00000	12.00000	19.50000	-20.168	19.083	0.0	0.0
	31.00000	12.00000	19.50000	-19.125	19.083	0.0	0.0
	32.00000	12.00000	19.50000	-17.746	19.083	0.0	0.0
	33.00000	12.00000	19.50000	-15.803	19.083	0.0	0.0
	34.00000	12.00000	19.50000	-12.082	19.083	0.0	0.0
	35.00000	12.00000	19.50000	-8.3629	19.083	0.0	0.0
	36.00000	12.00000	19.50000	-6.4291	19.083	0.0	0.0
	37.00000	12.00000	19.50000	-5.0643	19.083	0.0	0.0
	38.00000	12.00000	19.50000	-4.0421	19.083	0.0	0.0
	39.00000	12.00000	19.50000	-3.2528	19.083	0.0	0.0
	40.00000	12.00000	19.50000	-2.6322	19.083	0.0	0.0
	41.00000	12.00000	19.50000	-2.1380	19.083	0.0	0.0
	42.00000	12.00000	19.50000	-1.7410	19.083	0.0	0.0
	43.00000	12.00000	19.50000	-1.4198	19.083	0.0	0.0
	44.00000	12.00000	19.50000	-1.1584	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [MOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	45.00000	12.00000	19.50000	-0.94483	19.083	0.0	0.0
	46.00000	12.00000	19.50000	-0.76963	19.083	0.0	0.0
	47.00000	12.00000	19.50000	-0.62548	19.083	0.0	0.0
	48.00000	12.00000	19.50000	-0.50658	19.083	0.0	0.0
	49.00000	12.00000	19.50000	-0.40830	19.083	0.0	0.0
	50.00000	12.00000	19.50000	-0.32694	19.083	0.0	0.0
	51.00000	12.00000	19.50000	-0.25951	19.083	0.0	0.0
	52.00000	12.00000	19.50000	-0.20356	19.083	0.0	0.0
	53.00000	12.00000	19.50000	-0.15713	19.083	0.0	0.0
	54.00000	12.00000	19.50000	-0.11858	19.083	0.0	0.0
	55.00000	12.00000	19.50000	-0.086585	19.083	0.0	0.0
	-25.00000	13.00000	19.50000	-0.037931	19.083	0.0	0.0
	-24.00000	13.00000	19.50000	-0.057663	19.083	0.0	0.0
	-23.00000	13.00000	19.50000	-0.081256	19.083	0.0	0.0
	-22.00000	13.00000	19.50000	-0.10944	19.083	0.0	0.0
	-21.00000	13.00000	19.50000	-0.14307	19.083	0.0	0.0
	-20.00000	13.00000	19.50000	-0.18320	19.083	0.0	0.0
	-19.00000	13.00000	19.50000	-0.23109	19.083	0.0	0.0
	-18.00000	13.00000	19.50000	-0.28826	19.083	0.0	0.0
	-17.00000	13.00000	19.50000	-0.35653	19.083	0.0	0.0
	-16.00000	13.00000	19.50000	-0.43815	19.083	0.0	0.0
	-15.00000	13.00000	19.50000	-0.53585	19.083	0.0	0.0
	-14.00000	13.00000	19.50000	-0.65296	19.083	0.0	0.0
	-13.00000	13.00000	19.50000	-0.79361	19.083	0.0	0.0
	-12.00000	13.00000	19.50000	-0.96288	19.083	0.0	0.0
	-11.00000	13.00000	19.50000	-1.16762	19.083	0.0	0.0
	-10.00000	13.00000	19.50000	-1.4144	19.083	0.0	0.0
	-9.00000	13.00000	19.50000	-1.7148	19.083	0.0	0.0
	-8.00000	13.00000	19.50000	-2.0813	19.083	0.0	0.0
	-7.00000	13.00000	19.50000	-2.5309	19.083	0.0	0.0
	-6.00000	13.00000	19.50000	-3.0864	19.083	0.0	0.0
	-5.00000	13.00000	19.50000	-3.7786	19.083	0.0	0.0
	-4.00000	13.00000	19.50000	-4.6523	19.083	0.0	0.0
	-3.00000	13.00000	19.50000	-5.7759	19.083	0.0	0.0
	-2.00000	13.00000	19.50000	-7.2663	19.083	0.0	0.0
	-1.00000	13.00000	19.50000	-9.3638	19.083	0.0	0.0
	0.00000	13.00000	19.50000	-12.732	19.083	0.0	0.0
	1.00000	13.00000	19.50000	-16.099	19.083	0.0	0.0
	2.00000	13.00000	19.50000	-18.191	19.083	0.0	0.0
	3.00000	13.00000	19.50000	-19.671	19.083	0.0	0.0
	4.00000	13.00000	19.50000	-20.780	19.083	0.0	0.0
	5.00000	13.00000	19.50000	-21.635	19.083	0.0	0.0
	6.00000	13.00000	19.50000	-22.303	19.083	0.0	0.0
	7.00000	13.00000	19.50000	-22.828	19.083	0.0	0.0
	8.00000	13.00000	19.50000	-23.241	19.083	0.0	0.0
	9.00000	13.00000	19.50000	-23.563	19.083	0.0	0.0
	10.00000	13.00000	19.50000	-23.811	19.083	0.0	0.0
	11.00000	13.00000	19.50000	-23.995	19.083	0.0	0.0
	12.00000	13.00000	19.50000	-24.126	19.083	0.0	0.0
	13.00000	13.00000	19.50000	-24.207	19.083	0.0	0.0
	14.00000	13.00000	19.50000	-24.245	19.083	0.0	0.0
	15.00000	13.00000	19.50000	-24.240	19.083	0.0	0.0
	16.00000	13.00000	19.50000	-24.192	19.083	0.0	0.0
	17.00000	13.00000	19.50000	-24.100	19.083	0.0	0.0
	18.00000	13.00000	19.50000	-23.956	19.083	0.0	0.0
	19.00000	13.00000	19.50000	-23.745	19.083	0.0	0.0
	20.00000	13.00000	19.50000	-24.018	19.083	0.0	0.0
	21.00000	13.00000	19.50000	-24.263	19.083	0.0	0.0
	22.00000	13.00000	19.50000	-23.968	19.083	0.0	0.0
	23.00000	13.00000	19.50000	-23.677	19.083	0.0	0.0
	24.00000	13.00000	19.50000	-23.372	19.083	0.0	0.0
	25.00000	13.00000	19.50000	-23.035	19.083	0.0	0.0
	26.00000	13.00000	19.50000	-22.650	19.083	0.0	0.0
	27.00000	13.00000	19.50000	-22.201	19.083	0.0	0.0
	28.00000	13.00000	19.50000	-21.663	19.083	0.0	0.0
	29.00000	13.00000	19.50000	-21.006	19.083	0.0	0.0
	30.00000	13.00000	19.50000	-20.188	19.083	0.0	0.0
	31.00000	13.00000	19.50000	-19.144	19.083	0.0	0.0
	32.00000	13.00000	19.50000	-17.763	19.083	0.0	0.0
	33.00000	13.00000	19.50000	-15.819	19.083	0.0	0.0
	34.00000	13.00000	19.50000	-12.096	19.083	0.0	0.0
	35.00000	13.00000	19.50000	-8.3757	19.083	0.0	0.0
	36.00000	13.00000	19.50000	-6.4403	19.083	0.0	0.0
	37.00000	13.00000	19.50000	-5.0741	19.083	0.0	0.0
	38.00000	13.00000	19.50000	-4.0505	19.083	0.0	0.0
	39.00000	13.00000	19.50000	-3.2600	19.083	0.0	0.0
	40.00000	13.00000	19.50000	-2.6383	19.083	0.0	0.0
	41.00000	13.00000	19.50000	-2.1432	19.083	0.0	0.0
	42.00000	13.00000	19.50000	-1.7453	19.083	0.0	0.0
	43.00000	13.00000	19.50000	-1.4234	19.083	0.0	0.0
	44.00000	13.00000	19.50000	-1.1614	19.083	0.0	0.0
	45.00000	13.00000	19.50000	-0.94731	19.083	0.0	0.0
	46.00000	13.00000	19.50000	-0.77167	19.083	0.0	0.0
	47.00000	13.00000	19.50000	-0.62716	19.083	0.0	0.0
	48.00000	13.00000	19.50000	-0.50796	19.083	0.0	0.0
	49.00000	13.00000	19.50000	-0.40944	19.083	0.0	0.0
	50.00000	13.00000	19.50000	-0.32788	19.083	0.0	0.0
	51.00000	13.00000	19.50000	-0.26027	19.083	0.0	0.0
	52.00000	13.00000	19.50000	-0.20419	19.083	0.0	0.0
	53.00000	13.00000	19.50000	-0.15764	19.083	0.0	0.0
	54.00000	13.00000	19.50000	-0.11900	19.083	0.0	0.0
	55.00000	13.00000	19.50000	-0.086928	19.083	0.0	0.0
	-25.00000	14.00000	19.50000	-0.037727	19.083	0.0	0.0
	-24.00000	14.00000	19.50000	-0.057415	19.083	0.0	0.0
	-23.00000	14.00000	19.50000	-0.080954	19.083	0.0	0.0
	-22.00000	14.00000	19.50000	-0.10907	19.083	0.0	0.0
	-21.00000	14.00000	19.50000	-0.14263	19.083	0.0	0.0
	-20.00000	14.00000	19.50000	-0.18266	19.083	0.0	0.0
	-19.00000	14.00000	19.50000	-0.23044	19.083	0.0	0.0
	-18.00000	14.00000	19.50000	-0.28746	19.083	0.0	0.0
	-17.00000	14.00000	19.50000	-0.35557	19.083	0.0	0.0
	-16.00000	14.00000	19.50000	-0.43699	19.083	0.0	0.0
	-15.00000	14.00000	19.50000	-0.53444	19.083	0.0	0.0
	-14.00000	14.00000	19.50000	-0.65126	19.083	0.0	0.0
	-13.00000	14.00000	19.50000	-0.79156	19.083	0.0	0.0
	-12.00000	14.00000	19.50000	-0.96041	19.083	0.0	0.0
	-11.00000	14.00000	19.50000	-1.1642	19.083	0.0	0.0
	-10.00000	14.00000	19.50000	-1.4108	19.083	0.0	0.0
	-9.00000	14.00000	19.50000	-1.7105	19.083	0.0	0.0
	-8.00000	14.00000	19.50000	-2.0762	19.083	0.0	0.0
	-7.00000	14.00000	19.50000	-2.5249	19.083	0.0	0.0
	-6.00000	14.00000	19.50000	-3.0792	19.083	0.0	0.0
	-5.00000	14.00000	19.50000	-3.7702	19.083	0.0	0.0
	-4.00000	14.00000	19.50000	-4.6425	19.083	0.0	0.0
	-3.00000	14.00000	19.50000	-5.7646	19.083	0.0	0.0
	-2.00000	14.00000	19.50000	-7.2534	19.083	0.0	0.0
	-1.00000	14.00000	19.50000	-9.3492	19.083	0.0	0.0
	0.00000	14.00000	19.50000	-12.716	19.083	0.0	0.0
	1.00000	14.00000	19.50000	-16.081	19.083	0.0	0.0
	2.00000	14.00000	19.50000	-18.171	19.083	0.0	0.0
	3.00000	14.00000	19.50000	-19.650	19.083	0.0	0.0
	4.00000	14.00000	19.50000	-20.757	19.083	0.0	0.0
	5.00000	14.00000	19.50000	-21.610	19.083	0.0	0.0
	6.00000	14.00000	19.50000	-22.277	19.083	0.0	0.0
	7.00000	14.00000	19.50000	-22.801	19.083	0.0	0.0
	8.00000	14.00000	19.50000	-23.213	19.083	0.0	0.0
	9.00000	14.00000	19.50000	-23.535	19.083	0.0	0.0
	10.00000	14.00000	19.50000	-23.782	19.083	0.0	0.0
	11.00000	14.00000	19.50000	-23.966	19.083	0.0	0.0
	12.00000	14.00000	19.50000	-24.096	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	13.00000	14.00000	19.50000	-24.178	19.083	0.0	0.0
	14.00000	14.00000	19.50000	-24.215	19.083	0.0	0.0
	15.00000	14.00000	19.50000	-24.210	19.083	0.0	0.0
	16.00000	14.00000	19.50000	-24.163	19.083	0.0	0.0
	17.00000	14.00000	19.50000	-24.070	19.083	0.0	0.0
	18.00000	14.00000	19.50000	-23.926	19.083	0.0	0.0
	19.00000	14.00000	19.50000	-23.716	19.083	0.0	0.0
	20.00000	14.00000	19.50000	-23.990	19.083	0.0	0.0
	21.00000	14.00000	19.50000	-24.235	19.083	0.0	0.0
	22.00000	14.00000	19.50000	-23.940	19.083	0.0	0.0
	23.00000	14.00000	19.50000	-23.650	19.083	0.0	0.0
	24.00000	14.00000	19.50000	-23.345	19.083	0.0	0.0
	25.00000	14.00000	19.50000	-23.009	19.083	0.0	0.0
	26.00000	14.00000	19.50000	-22.626	19.083	0.0	0.0
	27.00000	14.00000	19.50000	-22.177	19.083	0.0	0.0
	28.00000	14.00000	19.50000	-21.640	19.083	0.0	0.0
	29.00000	14.00000	19.50000	-20.985	19.083	0.0	0.0
	30.00000	14.00000	19.50000	-20.168	19.083	0.0	0.0
	31.00000	14.00000	19.50000	-19.125	19.083	0.0	0.0
	32.00000	14.00000	19.50000	-17.746	19.083	0.0	0.0
	33.00000	14.00000	19.50000	-15.803	19.083	0.0	0.0
	34.00000	14.00000	19.50000	-12.082	19.083	0.0	0.0
	35.00000	14.00000	19.50000	-8.3629	19.083	0.0	0.0
	36.00000	14.00000	19.50000	-6.4291	19.083	0.0	0.0
	37.00000	14.00000	19.50000	-5.0643	19.083	0.0	0.0
	38.00000	14.00000	19.50000	-4.0421	19.083	0.0	0.0
	39.00000	14.00000	19.50000	-3.2528	19.083	0.0	0.0
	40.00000	14.00000	19.50000	-2.6322	19.083	0.0	0.0
	41.00000	14.00000	19.50000	-2.1380	19.083	0.0	0.0
	42.00000	14.00000	19.50000	-1.7410	19.083	0.0	0.0
	43.00000	14.00000	19.50000	-1.4198	19.083	0.0	0.0
	44.00000	14.00000	19.50000	-1.1584	19.083	0.0	0.0
	45.00000	14.00000	19.50000	-0.94483	19.083	0.0	0.0
	46.00000	14.00000	19.50000	-0.76963	19.083	0.0	0.0
	47.00000	14.00000	19.50000	-0.62548	19.083	0.0	0.0
	48.00000	14.00000	19.50000	-0.50568	19.083	0.0	0.0
	49.00000	14.00000	19.50000	-0.40830	19.083	0.0	0.0
	50.00000	14.00000	19.50000	-0.32694	19.083	0.0	0.0
	51.00000	14.00000	19.50000	-0.25951	19.083	0.0	0.0
	52.00000	14.00000	19.50000	-0.20356	19.083	0.0	0.0
	53.00000	14.00000	19.50000	-0.15713	19.083	0.0	0.0
	54.00000	14.00000	19.50000	-0.11858	19.083	0.0	0.0
	55.00000	14.00000	19.50000	-0.086585	19.083	0.0	0.0
	-25.00000	15.00000	19.50000	-0.037118	19.083	0.0	0.0
	-24.00000	15.00000	19.50000	-0.056673	19.083	0.0	0.0
	-23.00000	15.00000	19.50000	-0.080051	19.083	0.0	0.0
	-22.00000	15.00000	19.50000	-0.10797	19.083	0.0	0.0
	-21.00000	15.00000	19.50000	-0.14129	19.083	0.0	0.0
	-20.00000	15.00000	19.50000	-0.18105	19.083	0.0	0.0
	-19.00000	15.00000	19.50000	-0.22848	19.083	0.0	0.0
	-18.00000	15.00000	19.50000	-0.28509	19.083	0.0	0.0
	-17.00000	15.00000	19.50000	-0.35270	19.083	0.0	0.0
	-16.00000	15.00000	19.50000	-0.43352	19.083	0.0	0.0
	-15.00000	15.00000	19.50000	-0.53024	19.083	0.0	0.0
	-14.00000	15.00000	19.50000	-0.64619	19.083	0.0	0.0
	-13.00000	15.00000	19.50000	-0.78543	19.083	0.0	0.0
	-12.00000	15.00000	19.50000	-0.95302	19.083	0.0	0.0
	-11.00000	15.00000	19.50000	-1.1553	19.083	0.0	0.0
	-10.00000	15.00000	19.50000	-1.4001	19.083	0.0	0.0
	-9.00000	15.00000	19.50000	-1.6977	19.083	0.0	0.0
	-8.00000	15.00000	19.50000	-2.0609	19.083	0.0	0.0
	-7.00000	15.00000	19.50000	-2.5067	19.083	0.0	0.0
	-6.00000	15.00000	19.50000	-3.0576	19.083	0.0	0.0
	-5.00000	15.00000	19.50000	-3.7449	19.083	0.0	0.0
	-4.00000	15.00000	19.50000	-4.6130	19.083	0.0	0.0
	-3.00000	15.00000	19.50000	-5.7104	19.083	0.0	0.0
	-2.00000	15.00000	19.50000	-7.2142	19.083	0.0	0.0
	-1.00000	15.00000	19.50000	-9.3048	19.083	0.0	0.0
	0.00000	15.00000	19.50000	-12.666	19.083	0.0	0.0
	1.00000	15.00000	19.50000	-16.026	19.083	0.0	0.0
	2.00000	15.00000	19.50000	-18.111	19.083	0.0	0.0
	3.00000	15.00000	19.50000	-19.585	19.083	0.0	0.0
	4.00000	15.00000	19.50000	-20.688	19.083	0.0	0.0
	5.00000	15.00000	19.50000	-21.537	19.083	0.0	0.0
	6.00000	15.00000	19.50000	-22.200	19.083	0.0	0.0
	7.00000	15.00000	19.50000	-22.721	19.083	0.0	0.0
	8.00000	15.00000	19.50000	-23.130	19.083	0.0	0.0
	9.00000	15.00000	19.50000	-23.450	19.083	0.0	0.0
	10.00000	15.00000	19.50000	-23.695	19.083	0.0	0.0
	11.00000	15.00000	19.50000	-23.878	19.083	0.0	0.0
	12.00000	15.00000	19.50000	-24.007	19.083	0.0	0.0
	13.00000	15.00000	19.50000	-24.088	19.083	0.0	0.0
	14.00000	15.00000	19.50000	-24.125	19.083	0.0	0.0
	15.00000	15.00000	19.50000	-24.119	19.083	0.0	0.0
	16.00000	15.00000	19.50000	-24.072	19.083	0.0	0.0
	17.00000	15.00000	19.50000	-23.981	19.083	0.0	0.0
	18.00000	15.00000	19.50000	-23.837	19.083	0.0	0.0
	19.00000	15.00000	19.50000	-23.628	19.083	0.0	0.0
	20.00000	15.00000	19.50000	-23.902	19.083	0.0	0.0
	21.00000	15.00000	19.50000	-24.149	19.083	0.0	0.0
	22.00000	15.00000	19.50000	-23.855	19.083	0.0	0.0
	23.00000	15.00000	19.50000	-23.567	19.083	0.0	0.0
	24.00000	15.00000	19.50000	-23.265	19.083	0.0	0.0
	25.00000	15.00000	19.50000	-22.931	19.083	0.0	0.0
	26.00000	15.00000	19.50000	-22.550	19.083	0.0	0.0
	27.00000	15.00000	19.50000	-22.104	19.083	0.0	0.0
	28.00000	15.00000	19.50000	-21.570	19.083	0.0	0.0
	29.00000	15.00000	19.50000	-20.919	19.083	0.0	0.0
	30.00000	15.00000	19.50000	-20.106	19.083	0.0	0.0
	31.00000	15.00000	19.50000	-19.067	19.083	0.0	0.0
	32.00000	15.00000	19.50000	-17.693	19.083	0.0	0.0
	33.00000	15.00000	19.50000	-15.755	19.083	0.0	0.0
	34.00000	15.00000	19.50000	-12.038	19.083	0.0	0.0
	35.00000	15.00000	19.50000	-8.3240	19.083	0.0	0.0
	36.00000	15.00000	19.50000	-6.3949	19.083	0.0	0.0
	37.00000	15.00000	19.50000	-5.0346	19.083	0.0	0.0
	38.00000	15.00000	19.50000	-4.0165	19.083	0.0	0.0
	39.00000	15.00000	19.50000	-3.2310	19.083	0.0	0.0
	40.00000	15.00000	19.50000	-2.6137	19.083	0.0	0.0
	41.00000	15.00000	19.50000	-2.1225	19.083	0.0	0.0
	42.00000	15.00000	19.50000	-1.7280	19.083	0.0	0.0
	43.00000	15.00000	19.50000	-1.4089	19.083	0.0	0.0
	44.00000	15.00000	19.50000	-1.1494	19.083	0.0	0.0
	45.00000	15.00000	19.50000	-0.93740	19.083	0.0	0.0
	46.00000	15.00000	19.50000	-0.76349	19.083	0.0	0.0
	47.00000	15.00000	19.50000	-0.62043	19.083	0.0	0.0
	48.00000	15.00000	19.50000	-0.50242	19.083	0.0	0.0
	49.00000	15.00000	19.50000	-0.40489	19.083	0.0	0.0
	50.00000	15.00000	19.50000	-0.32414	19.083	0.0	0.0
	51.00000	15.00000	19.50000	-0.25721	19.083	0.0	0.0
	52.00000	15.00000	19.50000	-0.20168	19.083	0.0	0.0
	53.00000	15.00000	19.50000	-0.15559	19.083	0.0	0.0
	54.00000	15.00000	19.50000	-0.11732	19.083	0.0	0.0
	55.00000	15.00000	19.50000	-0.085560	19.083	0.0	0.0
	-25.00000	16.00000	19.50000	-0.036110	19.083	0.0	0.0
	-24.00000	16.00000	19.50000	-0.055445	19.083	0.0	0.0
	-23.00000	16.00000	19.50000	-0.078558	19.083	0.0	0.0
	-22.00000	16.00000	19.50000	-0.10616	19.083	0.0	0.0
	-21.00000	16.00000	19.50000	-0.13909	19.083	0.0	0.0
	-20.00000	16.00000	19.50000	-0.17838	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-19.00000	16.00000	19.50000	-0.22524	19.083	0.0	0.0
	-18.00000	16.00000	19.50000	-0.28117	19.083	0.0	0.0
	-17.00000	16.00000	19.50000	-0.34795	19.083	0.0	0.0
	-16.00000	16.00000	19.50000	-0.42777	19.083	0.0	0.0
	-15.00000	16.00000	19.50000	-0.52328	19.083	0.0	0.0
	-14.00000	16.00000	19.50000	-0.63777	19.083	0.0	0.0
	-13.00000	16.00000	19.50000	-0.77525	19.083	0.0	0.0
	-12.00000	16.00000	19.50000	-0.94073	19.083	0.0	0.0
	-11.00000	16.00000	19.50000	-1.1405	19.083	0.0	0.0
	-10.00000	16.00000	19.50000	-1.3823	19.083	0.0	0.0
	-9.00000	16.00000	19.50000	-1.6763	19.083	0.0	0.0
	-8.00000	16.00000	19.50000	-2.0352	19.083	0.0	0.0
	-7.00000	16.00000	19.50000	-2.4761	19.083	0.0	0.0
	-6.00000	16.00000	19.50000	-3.0214	19.083	0.0	0.0
	-5.00000	16.00000	19.50000	-3.7022	19.083	0.0	0.0
	-4.00000	16.00000	19.50000	-4.5630	19.083	0.0	0.0
	-3.00000	16.00000	19.50000	-5.6724	19.083	0.0	0.0
	-2.00000	16.00000	19.50000	-7.1477	19.083	0.0	0.0
	-1.00000	16.00000	19.50000	-9.2292	19.083	0.0	0.0
	0.00000	16.00000	19.50000	-12.582	19.083	0.0	0.0
	1.00000	16.00000	19.50000	-15.932	19.083	0.0	0.0
	2.00000	16.00000	19.50000	-18.008	19.083	0.0	0.0
	3.00000	16.00000	19.50000	-19.473	19.083	0.0	0.0
	4.00000	16.00000	19.50000	-20.568	19.083	0.0	0.0
	5.00000	16.00000	19.50000	-21.410	19.083	0.0	0.0
	6.00000	16.00000	19.50000	-22.067	19.083	0.0	0.0
	7.00000	16.00000	19.50000	-22.583	19.083	0.0	0.0
	8.00000	16.00000	19.50000	-22.988	19.083	0.0	0.0
	9.00000	16.00000	19.50000	-23.304	19.083	0.0	0.0
	10.00000	16.00000	19.50000	-23.546	19.083	0.0	0.0
	11.00000	16.00000	19.50000	-23.727	19.083	0.0	0.0
	12.00000	16.00000	19.50000	-23.854	19.083	0.0	0.0
	13.00000	16.00000	19.50000	-23.934	19.083	0.0	0.0
	14.00000	16.00000	19.50000	-23.970	19.083	0.0	0.0
	15.00000	16.00000	19.50000	-23.964	19.083	0.0	0.0
	16.00000	16.00000	19.50000	-23.918	19.083	0.0	0.0
	17.00000	16.00000	19.50000	-23.827	19.083	0.0	0.0
	18.00000	16.00000	19.50000	-23.684	19.083	0.0	0.0
	19.00000	16.00000	19.50000	-23.477	19.083	0.0	0.0
	20.00000	16.00000	19.50000	-23.753	19.083	0.0	0.0
	21.00000	16.00000	19.50000	-24.002	19.083	0.0	0.0
	22.00000	16.00000	19.50000	-23.711	19.083	0.0	0.0
	23.00000	16.00000	19.50000	-23.426	19.083	0.0	0.0
	24.00000	16.00000	19.50000	-23.126	19.083	0.0	0.0
	25.00000	16.00000	19.50000	-22.796	19.083	0.0	0.0
	26.00000	16.00000	19.50000	-22.420	19.083	0.0	0.0
	27.00000	16.00000	19.50000	-21.979	19.083	0.0	0.0
	28.00000	16.00000	19.50000	-21.450	19.083	0.0	0.0
	29.00000	16.00000	19.50000	-20.805	19.083	0.0	0.0
	30.00000	16.00000	19.50000	-19.999	19.083	0.0	0.0
	31.00000	16.00000	19.50000	-18.968	19.083	0.0	0.0
	32.00000	16.00000	19.50000	-17.601	19.083	0.0	0.0
	33.00000	16.00000	19.50000	-15.672	19.083	0.0	0.0
	34.00000	16.00000	19.50000	-11.963	19.083	0.0	0.0
	35.00000	16.00000	19.50000	-8.2577	19.083	0.0	0.0
	36.00000	16.00000	19.50000	-6.3369	19.083	0.0	0.0
	37.00000	16.00000	19.50000	-4.9842	19.083	0.0	0.0
	38.00000	16.00000	19.50000	-3.9732	19.083	0.0	0.0
	39.00000	16.00000	19.50000	-3.1942	19.083	0.0	0.0
	40.00000	16.00000	19.50000	-2.5826	19.083	0.0	0.0
	41.00000	16.00000	19.50000	-2.0964	19.083	0.0	0.0
	42.00000	16.00000	19.50000	-1.7062	19.083	0.0	0.0
	43.00000	16.00000	19.50000	-1.3909	19.083	0.0	0.0
	44.00000	16.00000	19.50000	-1.1345	19.083	0.0	0.0
	45.00000	16.00000	19.50000	-0.92503	19.083	0.0	0.0
	46.00000	16.00000	19.50000	-0.75330	19.083	0.0	0.0
	47.00000	16.00000	19.50000	-0.61204	19.083	0.0	0.0
	48.00000	16.00000	19.50000	-0.49553	19.083	0.0	0.0
	49.00000	16.00000	19.50000	-0.39923	19.083	0.0	0.0
	50.00000	16.00000	19.50000	-0.31951	19.083	0.0	0.0
	51.00000	16.00000	19.50000	-0.25241	19.083	0.0	0.0
	52.00000	16.00000	19.50000	-0.19857	19.083	0.0	0.0
	53.00000	16.00000	19.50000	-0.15305	19.083	0.0	0.0
	54.00000	16.00000	19.50000	-0.11524	19.083	0.0	0.0
	55.00000	16.00000	19.50000	-0.083865	19.083	0.0	0.0
	-25.00000	17.00000	19.50000	-0.034715	19.083	0.0	0.0
	-24.00000	17.00000	19.50000	-0.053745	19.083	0.0	0.0
	-23.00000	17.00000	19.50000	-0.076491	19.083	0.0	0.0
	-22.00000	17.00000	19.50000	-0.10365	19.083	0.0	0.0
	-21.00000	17.00000	19.50000	-0.13604	19.083	0.0	0.0
	-20.00000	17.00000	19.50000	-0.17468	19.083	0.0	0.0
	-19.00000	17.00000	19.50000	-0.22076	19.083	0.0	0.0
	-18.00000	17.00000	19.50000	-0.27573	19.083	0.0	0.0
	-17.00000	17.00000	19.50000	-0.34136	19.083	0.0	0.0
	-16.00000	17.00000	19.50000	-0.41979	19.083	0.0	0.0
	-15.00000	17.00000	19.50000	-0.51262	19.083	0.0	0.0
	-14.00000	17.00000	19.50000	-0.62607	19.083	0.0	0.0
	-13.00000	17.00000	19.50000	-0.76110	19.083	0.0	0.0
	-12.00000	17.00000	19.50000	-0.92362	19.083	0.0	0.0
	-11.00000	17.00000	19.50000	-1.1198	19.083	0.0	0.0
	-10.00000	17.00000	19.50000	-1.3574	19.083	0.0	0.0
	-9.00000	17.00000	19.50000	-1.6462	19.083	0.0	0.0
	-8.00000	17.00000	19.50000	-1.9992	19.083	0.0	0.0
	-7.00000	17.00000	19.50000	-2.4330	19.083	0.0	0.0
	-6.00000	17.00000	19.50000	-2.9701	19.083	0.0	0.0
	-5.00000	17.00000	19.50000	-3.6414	19.083	0.0	0.0
	-4.00000	17.00000	19.50000	-4.4916	19.083	0.0	0.0
	-3.00000	17.00000	19.50000	-5.5892	19.083	0.0	0.0
	-2.00000	17.00000	19.50000	-7.0516	19.083	0.0	0.0
	-1.00000	17.00000	19.50000	-9.1196	19.083	0.0	0.0
	0.00000	17.00000	19.50000	-12.458	19.083	0.0	0.0
	1.00000	17.00000	19.50000	-15.795	19.083	0.0	0.0
	2.00000	17.00000	19.50000	-17.857	19.083	0.0	0.0
	3.00000	17.00000	19.50000	-19.310	19.083	0.0	0.0
	4.00000	17.00000	19.50000	-20.393	19.083	0.0	0.0
	5.00000	17.00000	19.50000	-21.225	19.083	0.0	0.0
	6.00000	17.00000	19.50000	-21.873	19.083	0.0	0.0
	7.00000	17.00000	19.50000	-22.381	19.083	0.0	0.0
	8.00000	17.00000	19.50000	-22.779	19.083	0.0	0.0
	9.00000	17.00000	19.50000	-23.090	19.083	0.0	0.0
	10.00000	17.00000	19.50000	-23.328	19.083	0.0	0.0
	11.00000	17.00000	19.50000	-23.505	19.083	0.0	0.0
	12.00000	17.00000	19.50000	-23.630	19.083	0.0	0.0
	13.00000	17.00000	19.50000	-23.708	19.083	0.0	0.0
	14.00000	17.00000	19.50000	-23.744	19.083	0.0	0.0
	15.00000	17.00000	19.50000	-23.738	19.083	0.0	0.0
	16.00000	17.00000	19.50000	-23.692	19.083	0.0	0.0
	17.00000	17.00000	19.50000	-23.602	19.083	0.0	0.0
	18.00000	17.00000	19.50000	-23.461	19.083	0.0	0.0
	19.00000	17.00000	19.50000	-23.256	19.083	0.0	0.0
	20.00000	17.00000	19.50000	-23.535	19.083	0.0	0.0
	21.00000	17.00000	19.50000	-23.787	19.083	0.0	0.0
	22.00000	17.00000	19.50000	-23.500	19.083	0.0	0.0
	23.00000	17.00000	19.50000	-23.219	19.083	0.0	0.0
	24.00000	17.00000	19.50000	-22.924	19.083	0.0	0.0
	25.00000	17.00000	19.50000	-22.599	19.083	0.0	0.0
	26.00000	17.00000	19.50000	-22.229	19.083	0.0	0.0
	27.00000	17.00000	19.50000	-21.795	19.083	0.0	0.0
	28.00000	17.00000	19.50000	-21.275	19.083	0.0	0.0
	29.00000	17.00000	19.50000	-20.638	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	30.00000	17.00000	19.50000	-19.842	19.083	0.0	0.0
	31.00000	17.00000	19.50000	-18.822	19.083	0.0	0.0
	32.00000	17.00000	19.50000	-17.467	19.083	0.0	0.0
	33.00000	17.00000	19.50000	-15.550	19.083	0.0	0.0
	34.00000	17.00000	19.50000	-11.854	19.083	0.0	0.0
	35.00000	17.00000	19.50000	-8.1615	19.083	0.0	0.0
	36.00000	17.00000	19.50000	-6.2527	19.083	0.0	0.0
	37.00000	17.00000	19.50000	-4.9117	19.083	0.0	0.0
	38.00000	17.00000	19.50000	-3.9113	19.083	0.0	0.0
	39.00000	17.00000	19.50000	-3.1417	19.083	0.0	0.0
	40.00000	17.00000	19.50000	-2.5385	19.083	0.0	0.0
	41.00000	17.00000	19.50000	-2.0596	19.083	0.0	0.0
	42.00000	17.00000	19.50000	-1.6756	19.083	0.0	0.0
	43.00000	17.00000	19.50000	-1.3655	19.083	0.0	0.0
	44.00000	17.00000	19.50000	-1.1135	19.083	0.0	0.0
	45.00000	17.00000	19.50000	-0.90776	19.083	0.0	0.0
	46.00000	17.00000	19.50000	-0.73910	19.083	0.0	0.0
	47.00000	17.00000	19.50000	-0.60037	19.083	0.0	0.0
	48.00000	17.00000	19.50000	-0.48595	19.083	0.0	0.0
	49.00000	17.00000	19.50000	-0.39138	19.083	0.0	0.0
	50.00000	17.00000	19.50000	-0.31307	19.083	0.0	0.0
	51.00000	17.00000	19.50000	-0.24815	19.083	0.0	0.0
	52.00000	17.00000	19.50000	-0.19426	19.083	0.0	0.0
	53.00000	17.00000	19.50000	-0.14952	19.083	0.0	0.0
	54.00000	17.00000	19.50000	-0.11237	19.083	0.0	0.0
	55.00000	17.00000	19.50000	-0.081518	19.083	0.0	0.0
	-25.00000	18.00000	19.50000	-0.032950	19.083	0.0	0.0
	-24.00000	18.00000	19.50000	-0.051594	19.083	0.0	0.0
	-23.00000	18.00000	19.50000	-0.073873	19.083	0.0	0.0
	-22.00000	18.00000	19.50000	-0.10046	19.083	0.0	0.0
	-21.00000	18.00000	19.50000	-0.13218	19.083	0.0	0.0
	-20.00000	18.00000	19.50000	-0.16999	19.083	0.0	0.0
	-19.00000	18.00000	19.50000	-0.21507	19.083	0.0	0.0
	-18.00000	18.00000	19.50000	-0.26884	19.083	0.0	0.0
	-17.00000	18.00000	19.50000	-0.33301	19.083	0.0	0.0
	-16.00000	18.00000	19.50000	-0.40966	19.083	0.0	0.0
	-15.00000	18.00000	19.50000	-0.50134	19.083	0.0	0.0
	-14.00000	18.00000	19.50000	-0.61119	19.083	0.0	0.0
	-13.00000	18.00000	19.50000	-0.74306	19.083	0.0	0.0
	-12.00000	18.00000	19.50000	-0.90177	19.083	0.0	0.0
	-11.00000	18.00000	19.50000	-1.08933	19.083	0.0	0.0
	-10.00000	18.00000	19.50000	-1.3254	19.083	0.0	0.0
	-9.00000	18.00000	19.50000	-1.6076	19.083	0.0	0.0
	-8.00000	18.00000	19.50000	-1.9527	19.083	0.0	0.0
	-7.00000	18.00000	19.50000	-2.3771	19.083	0.0	0.0
	-6.00000	18.00000	19.50000	-2.9031	19.083	0.0	0.0
	-5.00000	18.00000	19.50000	-3.5617	19.083	0.0	0.0
	-4.00000	18.00000	19.50000	-4.3972	19.083	0.0	0.0
	-3.00000	18.00000	19.50000	-5.4785	19.083	0.0	0.0
	-2.00000	18.00000	19.50000	-6.9230	19.083	0.0	0.0
	-1.00000	18.00000	19.50000	-8.9720	19.083	0.0	0.0
	0.00000	18.00000	19.50000	-12.291	19.083	0.0	0.0
	1.00000	18.00000	19.50000	-15.608	19.083	0.0	0.0
	2.00000	18.00000	19.50000	-17.651	19.083	0.0	0.0
	3.00000	18.00000	19.50000	-19.086	19.083	0.0	0.0
	4.00000	18.00000	19.50000	-20.154	19.083	0.0	0.0
	5.00000	18.00000	19.50000	-20.971	19.083	0.0	0.0
	6.00000	18.00000	19.50000	-21.607	19.083	0.0	0.0
	7.00000	18.00000	19.50000	-22.104	19.083	0.0	0.0
	8.00000	18.00000	19.50000	-22.494	19.083	0.0	0.0
	9.00000	18.00000	19.50000	-22.798	19.083	0.0	0.0
	10.00000	18.00000	19.50000	-23.030	19.083	0.0	0.0
	11.00000	18.00000	19.50000	-23.204	19.083	0.0	0.0
	12.00000	18.00000	19.50000	-23.325	19.083	0.0	0.0
	13.00000	18.00000	19.50000	-23.402	19.083	0.0	0.0
	14.00000	18.00000	19.50000	-23.436	19.083	0.0	0.0
	15.00000	18.00000	19.50000	-23.431	19.083	0.0	0.0
	16.00000	18.00000	19.50000	-23.385	19.083	0.0	0.0
	17.00000	18.00000	19.50000	-23.297	19.083	0.0	0.0
	18.00000	18.00000	19.50000	-23.158	19.083	0.0	0.0
	19.00000	18.00000	19.50000	-22.985	19.083	0.0	0.0
	20.00000	18.00000	19.50000	-23.238	19.083	0.0	0.0
	21.00000	18.00000	19.50000	-23.494	19.083	0.0	0.0
	22.00000	18.00000	19.50000	-23.212	19.083	0.0	0.0
	23.00000	18.00000	19.50000	-22.936	19.083	0.0	0.0
	24.00000	18.00000	19.50000	-22.648	19.083	0.0	0.0
	25.00000	18.00000	19.50000	-22.331	19.083	0.0	0.0
	26.00000	18.00000	19.50000	-21.968	19.083	0.0	0.0
	27.00000	18.00000	19.50000	-21.544	19.083	0.0	0.0
	28.00000	18.00000	19.50000	-21.034	19.083	0.0	0.0
	29.00000	18.00000	19.50000	-20.410	19.083	0.0	0.0
	30.00000	18.00000	19.50000	-19.628	19.083	0.0	0.0
	31.00000	18.00000	19.50000	-18.623	19.083	0.0	0.0
	32.00000	18.00000	19.50000	-17.284	19.083	0.0	0.0
	33.00000	18.00000	19.50000	-15.384	19.083	0.0	0.0
	34.00000	18.00000	19.50000	-11.7077	19.083	0.0	0.0
	35.00000	18.00000	19.50000	-8.0315	19.083	0.0	0.0
	36.00000	18.00000	19.50000	-6.1400	19.083	0.0	0.0
	37.00000	18.00000	19.50000	-4.8150	19.083	0.0	0.0
	38.00000	18.00000	19.50000	-3.8292	19.083	0.0	0.0
	39.00000	18.00000	19.50000	-3.0727	19.083	0.0	0.0
	40.00000	18.00000	19.50000	-2.4809	19.083	0.0	0.0
	41.00000	18.00000	19.50000	-2.0117	19.083	0.0	0.0
	42.00000	18.00000	19.50000	-1.6360	19.083	0.0	0.0
	43.00000	18.00000	19.50000	-1.3328	19.083	0.0	0.0
	44.00000	18.00000	19.50000	-1.0866	19.083	0.0	0.0
	45.00000	18.00000	19.50000	-0.88566	19.083	0.0	0.0
	46.00000	18.00000	19.50000	-0.72096	19.083	0.0	0.0
	47.00000	18.00000	19.50000	-0.58550	19.083	0.0	0.0
	48.00000	18.00000	19.50000	-0.47377	19.083	0.0	0.0
	49.00000	18.00000	19.50000	-0.38140	19.083	0.0	0.0
	50.00000	18.00000	19.50000	-0.30490	19.083	0.0	0.0
	51.00000	18.00000	19.50000	-0.24146	19.083	0.0	0.0
	52.00000	18.00000	19.50000	-0.18880	19.083	0.0	0.0
	53.00000	18.00000	19.50000	-0.14506	19.083	0.0	0.0
	54.00000	18.00000	19.50000	-0.10872	19.083	0.0	0.0
	55.00000	18.00000	19.50000	-0.078546	19.083	0.0	0.0
	-25.00000	19.00000	19.50000	-0.030834	19.083	0.0	0.0
	-24.00000	19.00000	19.50000	-0.049015	19.083	0.0	0.0
	-23.00000	19.00000	19.50000	-0.070734	19.083	0.0	0.0
	-22.00000	19.00000	19.50000	-0.096650	19.083	0.0	0.0
	-21.00000	19.00000	19.50000	-0.12755	19.083	0.0	0.0
	-20.00000	19.00000	19.50000	-0.16437	19.083	0.0	0.0
	-19.00000	19.00000	19.50000	-0.20825	19.083	0.0	0.0
	-18.00000	19.00000	19.50000	-0.26057	19.083	0.0	0.0
	-17.00000	19.00000	19.50000	-0.32297	19.083	0.0	0.0
	-16.00000	19.00000	19.50000	-0.39748	19.083	0.0	0.0
	-15.00000	19.00000	19.50000	-0.48656	19.083	0.0	0.0
	-14.00000	19.00000	19.50000	-0.59325	19.083	0.0	0.0
	-13.00000	19.00000	19.50000	-0.72130	19.083	0.0	0.0
	-12.00000	19.00000	19.50000	-0.87535	19.083	0.0	0.0
	-11.00000	19.00000	19.50000	-1.0613	19.083	0.0	0.0
	-10.00000	19.00000	19.50000	-1.2865	19.083	0.0	0.0
	-9.00000	19.00000	19.50000	-1.5605	19.083	0.0	0.0
	-8.00000	19.00000	19.50000	-1.8955	19.083	0.0	0.0
	-7.00000	19.00000	19.50000	-2.3080	19.083	0.0	0.0
	-6.00000	19.00000	19.50000	-2.8199	19.083	0.0	0.0
	-5.00000	19.00000	19.50000	-3.4618	19.083	0.0	0.0
	-4.00000	19.00000	19.50000	-4.2782	19.083	0.0	0.0
	-3.00000	19.00000	19.50000	-5.3375	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-2.00000	19.00000	19.50000	-6.7579	19.083	0.0	0.0
	-1.00000	19.00000	19.50000	-8.7809	19.083	0.0	0.0
	0.00000	19.00000	19.50000	-12.073	19.083	0.0	0.0
	1.00000	19.00000	19.50000	-15.363	19.083	0.0	0.0
	2.00000	19.00000	19.50000	-17.380	19.083	0.0	0.0
	3.00000	19.00000	19.50000	-18.791	19.083	0.0	0.0
	4.00000	19.00000	19.50000	-19.837	19.083	0.0	0.0
	5.00000	19.00000	19.50000	-20.636	19.083	0.0	0.0
	6.00000	19.00000	19.50000	-21.256	19.083	0.0	0.0
	7.00000	19.00000	19.50000	-21.740	19.083	0.0	0.0
	8.00000	19.00000	19.50000	-22.119	19.083	0.0	0.0
	9.00000	19.00000	19.50000	-22.413	19.083	0.0	0.0
	10.00000	19.00000	19.50000	-22.639	19.083	0.0	0.0
	11.00000	19.00000	19.50000	-22.807	19.083	0.0	0.0
	12.00000	19.00000	19.50000	-22.925	19.083	0.0	0.0
	13.00000	19.00000	19.50000	-22.999	19.083	0.0	0.0
	14.00000	19.00000	19.50000	-23.032	19.083	0.0	0.0
	15.00000	19.00000	19.50000	-23.027	19.083	0.0	0.0
	16.00000	19.00000	19.50000	-22.982	19.083	0.0	0.0
	17.00000	19.00000	19.50000	-22.896	19.083	0.0	0.0
	18.00000	19.00000	19.50000	-22.760	19.083	0.0	0.0
	19.00000	19.00000	19.50000	-22.561	19.083	0.0	0.0
	20.00000	19.00000	19.50000	-22.848	19.083	0.0	0.0
	21.00000	19.00000	19.50000	-23.110	19.083	0.0	0.0
	22.00000	19.00000	19.50000	-22.833	19.083	0.0	0.0
	23.00000	19.00000	19.50000	-22.565	19.083	0.0	0.0
	24.00000	19.00000	19.50000	-22.285	19.083	0.0	0.0
	25.00000	19.00000	19.50000	-21.976	19.083	0.0	0.0
	26.00000	19.00000	19.50000	-21.624	19.083	0.0	0.0
	27.00000	19.00000	19.50000	-21.212	19.083	0.0	0.0
	28.00000	19.00000	19.50000	-20.716	19.083	0.0	0.0
	29.00000	19.00000	19.50000	-20.107	19.083	0.0	0.0
	30.00000	19.00000	19.50000	-19.343	19.083	0.0	0.0
	31.00000	19.00000	19.50000	-18.358	19.083	0.0	0.0
	32.00000	19.00000	19.50000	-17.042	19.083	0.0	0.0
	33.00000	19.00000	19.50000	-15.166	19.083	0.0	0.0
	34.00000	19.00000	19.50000	-11.513	19.083	0.0	0.0
	35.00000	19.00000	19.50000	-7.8626	19.083	0.0	0.0
	36.00000	19.00000	19.50000	-5.9947	19.083	0.0	0.0
	37.00000	19.00000	19.50000	-4.6916	19.083	0.0	0.0
	38.00000	19.00000	19.50000	-3.7255	19.083	0.0	0.0
	39.00000	19.00000	19.50000	-2.9862	19.083	0.0	0.0
	40.00000	19.00000	19.50000	-2.4092	19.083	0.0	0.0
	41.00000	19.00000	19.50000	-1.9525	19.083	0.0	0.0
	42.00000	19.00000	19.50000	-1.5873	19.083	0.0	0.0
	43.00000	19.00000	19.50000	-1.2928	19.083	0.0	0.0
	44.00000	19.00000	19.50000	-1.0538	19.083	0.0	0.0
	45.00000	19.00000	19.50000	-0.85884	19.083	0.0	0.0
	46.00000	19.00000	19.50000	-0.69901	19.083	0.0	0.0
	47.00000	19.00000	19.50000	-0.56754	19.083	0.0	0.0
	48.00000	19.00000	19.50000	-0.45908	19.083	0.0	0.0
	49.00000	19.00000	19.50000	-0.36939	19.083	0.0	0.0
	50.00000	19.00000	19.50000	-0.29508	19.083	0.0	0.0
	51.00000	19.00000	19.50000	-0.23343	19.083	0.0	0.0
	52.00000	19.00000	19.50000	-0.18224	19.083	0.0	0.0
	53.00000	19.00000	19.50000	-0.13970	19.083	0.0	0.0
	54.00000	19.00000	19.50000	-0.10435	19.083	0.0	0.0
	55.00000	19.00000	19.50000	-0.074983	19.083	0.0	0.0
	-25.00000	20.00000	19.50000	-0.028391	19.083	0.0	0.0
	-24.00000	20.00000	19.50000	-0.046037	19.083	0.0	0.0
	-23.00000	20.00000	19.50000	-0.067111	19.083	0.0	0.0
	-22.00000	20.00000	19.50000	-0.092245	19.083	0.0	0.0
	-21.00000	20.00000	19.50000	-0.12220	19.083	0.0	0.0
	-20.00000	20.00000	19.50000	-0.15787	19.083	0.0	0.0
	-19.00000	20.00000	19.50000	-0.20037	19.083	0.0	0.0
	-18.00000	20.00000	19.50000	-0.25100	19.083	0.0	0.0
	-17.00000	20.00000	19.50000	-0.31136	19.083	0.0	0.0
	-16.00000	20.00000	19.50000	-0.38338	19.083	0.0	0.0
	-15.00000	20.00000	19.50000	-0.46944	19.083	0.0	0.0
	-14.00000	20.00000	19.50000	-0.57244	19.083	0.0	0.0
	-13.00000	20.00000	19.50000	-0.69599	19.083	0.0	0.0
	-12.00000	20.00000	19.50000	-0.84457	19.083	0.0	0.0
	-11.00000	20.00000	19.50000	-1.0238	19.083	0.0	0.0
	-10.00000	20.00000	19.50000	-1.2409	19.083	0.0	0.0
	-9.00000	20.00000	19.50000	-1.5049	19.083	0.0	0.0
	-8.00000	20.00000	19.50000	-1.8279	19.083	0.0	0.0
	-7.00000	20.00000	19.50000	-2.2258	19.083	0.0	0.0
	-6.00000	20.00000	19.50000	-2.7200	19.083	0.0	0.0
	-5.00000	20.00000	19.50000	-3.3408	19.083	0.0	0.0
	-4.00000	20.00000	19.50000	-4.1323	19.083	0.0	0.0
	-3.00000	20.00000	19.50000	-5.1629	19.083	0.0	0.0
	-2.00000	20.00000	19.50000	-6.5508	19.083	0.0	0.0
	-1.00000	20.00000	19.50000	-8.5385	19.083	0.0	0.0
	0.00000	20.00000	19.50000	-11.793	19.083	0.0	0.0
	1.00000	20.00000	19.50000	-15.046	19.083	0.0	0.0
	2.00000	20.00000	19.50000	-17.029	19.083	0.0	0.0
	3.00000	20.00000	19.50000	-18.408	19.083	0.0	0.0
	4.00000	20.00000	19.50000	-19.425	19.083	0.0	0.0
	5.00000	20.00000	19.50000	-20.200	19.083	0.0	0.0
	6.00000	20.00000	19.50000	-20.799	19.083	0.0	0.0
	7.00000	20.00000	19.50000	-21.267	19.083	0.0	0.0
	8.00000	20.00000	19.50000	-21.632	19.083	0.0	0.0
	9.00000	20.00000	19.50000	-21.916	19.083	0.0	0.0
	10.00000	20.00000	19.50000	-22.133	19.083	0.0	0.0
	11.00000	20.00000	19.50000	-22.295	19.083	0.0	0.0
	12.00000	20.00000	19.50000	-22.408	19.083	0.0	0.0
	13.00000	20.00000	19.50000	-22.480	19.083	0.0	0.0
	14.00000	20.00000	19.50000	-22.511	19.083	0.0	0.0
	15.00000	20.00000	19.50000	-22.506	19.083	0.0	0.0
	16.00000	20.00000	19.50000	-22.463	19.083	0.0	0.0
	17.00000	20.00000	19.50000	-22.379	19.083	0.0	0.0
	18.00000	20.00000	19.50000	-22.247	19.083	0.0	0.0
	19.00000	20.00000	19.50000	-22.052	19.083	0.0	0.0
	20.00000	20.00000	19.50000	-22.345	19.083	0.0	0.0
	21.00000	20.00000	19.50000	-22.614	19.083	0.0	0.0
	22.00000	20.00000	19.50000	-22.345	19.083	0.0	0.0
	23.00000	20.00000	19.50000	-22.085	19.083	0.0	0.0
	24.00000	20.00000	19.50000	-21.814	19.083	0.0	0.0
	25.00000	20.00000	19.50000	-21.517	19.083	0.0	0.0
	26.00000	20.00000	19.50000	-21.178	19.083	0.0	0.0
	27.00000	20.00000	19.50000	-20.780	19.083	0.0	0.0
	28.00000	20.00000	19.50000	-20.301	19.083	0.0	0.0
	29.00000	20.00000	19.50000	-19.712	19.083	0.0	0.0
	30.00000	20.00000	19.50000	-18.972	19.083	0.0	0.0
	31.00000	20.00000	19.50000	-18.013	19.083	0.0	0.0
	32.00000	20.00000	19.50000	-16.727	19.083	0.0	0.0
	33.00000	20.00000	19.50000	-14.884	19.083	0.0	0.0
	34.00000	20.00000	19.50000	-11.264	19.083	0.0	0.0
	35.00000	20.00000	19.50000	-7.6476	19.083	0.0	0.0
	36.00000	20.00000	19.50000	-5.8119	19.083	0.0	0.0
	37.00000	20.00000	19.50000	-4.5381	19.083	0.0	0.0
	38.00000	20.00000	19.50000	-3.5980	19.083	0.0	0.0
	39.00000	20.00000	19.50000	-2.8810	19.083	0.0	0.0
	40.00000	20.00000	19.50000	-2.3228	19.083	0.0	0.0
	41.00000	20.00000	19.50000	-1.8818	19.083	0.0	0.0
	42.00000	20.00000	19.50000	-1.5296	19.083	0.0	0.0
	43.00000	20.00000	19.50000	-1.2457	19.083	0.0	0.0
	44.00000	20.00000	19.50000	-1.0154	19.083	0.0	0.0
	45.00000	20.00000	19.50000	-0.82747	19.083	0.0	0.0
	46.00000	20.00000	19.50000	-0.67342	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	47.00000	20.00000	19.50000	-0.54665	19.083	0.0	0.0
	48.00000	20.00000	19.50000	-0.44203	19.083	0.0	0.0
	49.00000	20.00000	19.50000	-0.35547	19.083	0.0	0.0
	50.00000	20.00000	19.50000	-0.28371	19.083	0.0	0.0
	51.00000	20.00000	19.50000	-0.22415	19.083	0.0	0.0
	52.00000	20.00000	19.50000	-0.17466	19.083	0.0	0.0
	53.00000	20.00000	19.50000	-0.13351	19.083	0.0	0.0
	54.00000	20.00000	19.50000	-0.099303	19.083	0.0	0.0
	55.00000	20.00000	19.50000	-0.070871	19.083	0.0	0.0
	-25.00000	21.00000	19.50000	-0.025650	19.083	0.0	0.0
	-24.00000	21.00000	19.50000	-0.042695	19.083	0.0	0.0
	-23.00000	21.00000	19.50000	-0.063043	19.083	0.0	0.0
	-22.00000	21.00000	19.50000	-0.087300	19.083	0.0	0.0
	-21.00000	21.00000	19.50000	-0.11619	19.083	0.0	0.0
	-20.00000	21.00000	19.50000	-0.15058	19.083	0.0	0.0
	-19.00000	21.00000	19.50000	-0.19152	19.083	0.0	0.0
	-18.00000	21.00000	19.50000	-0.24025	19.083	0.0	0.0
	-17.00000	21.00000	19.50000	-0.29830	19.083	0.0	0.0
	-16.00000	21.00000	19.50000	-0.36752	19.083	0.0	0.0
	-15.00000	21.00000	19.50000	-0.45015	19.083	0.0	0.0
	-14.00000	21.00000	19.50000	-0.54898	19.083	0.0	0.0
	-13.00000	21.00000	19.50000	-0.66741	19.083	0.0	0.0
	-12.00000	21.00000	19.50000	-0.80972	19.083	0.0	0.0
	-11.00000	21.00000	19.50000	-0.98126	19.083	0.0	0.0
	-10.00000	21.00000	19.50000	-1.1889	19.083	0.0	0.0
	-9.00000	21.00000	19.50000	-1.4413	19.083	0.0	0.0
	-8.00000	21.00000	19.50000	-1.7500	19.083	0.0	0.0
	-7.00000	21.00000	19.50000	-2.1303	19.083	0.0	0.0
	-6.00000	21.00000	19.50000	-2.6031	19.083	0.0	0.0
	-5.00000	21.00000	19.50000	-3.1977	19.083	0.0	0.0
	-4.00000	21.00000	19.50000	-3.9575	19.083	0.0	0.0
	-3.00000	21.00000	19.50000	-4.9506	19.083	0.0	0.0
	-2.00000	21.00000	19.50000	-6.2951	19.083	0.0	0.0
	-1.00000	21.00000	19.50000	-8.2344	19.083	0.0	0.0
	0.00000	21.00000	19.50000	-11.438	19.083	0.0	0.0
	1.00000	21.00000	19.50000	-14.640	19.083	0.0	0.0
	2.00000	21.00000	19.50000	-16.575	19.083	0.0	0.0
	3.00000	21.00000	19.50000	-17.910	19.083	0.0	0.0
	4.00000	21.00000	19.50000	-18.891	19.083	0.0	0.0
	5.00000	21.00000	19.50000	-19.634	19.083	0.0	0.0
	6.00000	21.00000	19.50000	-20.208	19.083	0.0	0.0
	7.00000	21.00000	19.50000	-20.655	19.083	0.0	0.0
	8.00000	21.00000	19.50000	-21.004	19.083	0.0	0.0
	9.00000	21.00000	19.50000	-21.275	19.083	0.0	0.0
	10.00000	21.00000	19.50000	-21.483	19.083	0.0	0.0
	11.00000	21.00000	19.50000	-21.637	19.083	0.0	0.0
	12.00000	21.00000	19.50000	-21.746	19.083	0.0	0.0
	13.00000	21.00000	19.50000	-21.814	19.083	0.0	0.0
	14.00000	21.00000	19.50000	-21.844	19.083	0.0	0.0
	15.00000	21.00000	19.50000	-21.839	19.083	0.0	0.0
	16.00000	21.00000	19.50000	-21.797	19.083	0.0	0.0
	17.00000	21.00000	19.50000	-21.717	19.083	0.0	0.0
	18.00000	21.00000	19.50000	-21.589	19.083	0.0	0.0
	19.00000	21.00000	19.50000	-21.401	19.083	0.0	0.0
	20.00000	21.00000	19.50000	-21.701	19.083	0.0	0.0
	21.00000	21.00000	19.50000	-21.978	19.083	0.0	0.0
	22.00000	21.00000	19.50000	-21.718	19.083	0.0	0.0
	23.00000	21.00000	19.50000	-21.468	19.083	0.0	0.0
	24.00000	21.00000	19.50000	-21.209	19.083	0.0	0.0
	25.00000	21.00000	19.50000	-20.925	19.083	0.0	0.0
	26.00000	21.00000	19.50000	-20.600	19.083	0.0	0.0
	27.00000	21.00000	19.50000	-20.220	19.083	0.0	0.0
	28.00000	21.00000	19.50000	-19.762	19.083	0.0	0.0
	29.00000	21.00000	19.50000	-19.199	19.083	0.0	0.0
	30.00000	21.00000	19.50000	-18.487	19.083	0.0	0.0
	31.00000	21.00000	19.50000	-17.564	19.083	0.0	0.0
	32.00000	21.00000	19.50000	-16.318	19.083	0.0	0.0
	33.00000	21.00000	19.50000	-14.519	19.083	0.0	0.0
	34.00000	21.00000	19.50000	-10.947	19.083	0.0	0.0
	35.00000	21.00000	19.50000	-7.3767	19.083	0.0	0.0
	36.00000	21.00000	19.50000	-5.5851	19.083	0.0	0.0
	37.00000	21.00000	19.50000	-4.3509	19.083	0.0	0.0
	38.00000	21.00000	19.50000	-3.4447	19.083	0.0	0.0
	39.00000	21.00000	19.50000	-2.7563	19.083	0.0	0.0
	40.00000	21.00000	19.50000	-2.2215	19.083	0.0	0.0
	41.00000	21.00000	19.50000	-1.7997	19.083	0.0	0.0
	42.00000	21.00000	19.50000	-1.4630	19.083	0.0	0.0
	43.00000	21.00000	19.50000	-1.1917	19.083	0.0	0.0
	44.00000	21.00000	19.50000	-0.97155	19.083	0.0	0.0
	45.00000	21.00000	19.50000	-0.79183	19.083	0.0	0.0
	46.00000	21.00000	19.50000	-0.64443	19.083	0.0	0.0
	47.00000	21.00000	19.50000	-0.52305	19.083	0.0	0.0
	48.00000	21.00000	19.50000	-0.42279	19.083	0.0	0.0
	49.00000	21.00000	19.50000	-0.33978	19.083	0.0	0.0
	50.00000	21.00000	19.50000	-0.27092	19.083	0.0	0.0
	51.00000	21.00000	19.50000	-0.21211	19.083	0.0	0.0
	52.00000	21.00000	19.50000	-0.16614	19.083	0.0	0.0
	53.00000	21.00000	19.50000	-0.12656	19.083	0.0	0.0
	54.00000	21.00000	19.50000	-0.093638	19.083	0.0	0.0
	55.00000	21.00000	19.50000	-0.066257	19.083	0.0	0.0
	-25.00000	22.00000	19.50000	-0.022641	19.083	0.0	0.0
	-24.00000	22.00000	19.50000	-0.039027	19.083	0.0	0.0
	-23.00000	22.00000	19.50000	-0.058579	19.083	0.0	0.0
	-22.00000	22.00000	19.50000	-0.081872	19.083	0.0	0.0
	-21.00000	22.00000	19.50000	-0.10960	19.083	0.0	0.0
	-20.00000	22.00000	19.50000	-0.14257	19.083	0.0	0.0
	-19.00000	22.00000	19.50000	-0.18179	19.083	0.0	0.0
	-18.00000	22.00000	19.50000	-0.22844	19.083	0.0	0.0
	-17.00000	22.00000	19.50000	-0.28396	19.083	0.0	0.0
	-16.00000	22.00000	19.50000	-0.35008	19.083	0.0	0.0
	-15.00000	22.00000	19.50000	-0.42893	19.083	0.0	0.0
	-14.00000	22.00000	19.50000	-0.52312	19.083	0.0	0.0
	-13.00000	22.00000	19.50000	-0.63586	19.083	0.0	0.0
	-12.00000	22.00000	19.50000	-0.77117	19.083	0.0	0.0
	-11.00000	22.00000	19.50000	-0.93409	19.083	0.0	0.0
	-10.00000	22.00000	19.50000	-1.13110	19.083	0.0	0.0
	-9.00000	22.00000	19.50000	-1.3702	19.083	0.0	0.0
	-8.00000	22.00000	19.50000	-1.6624	19.083	0.0	0.0
	-7.00000	22.00000	19.50000	-2.0222	19.083	0.0	0.0
	-6.00000	22.00000	19.50000	-2.4693	19.083	0.0	0.0
	-5.00000	22.00000	19.50000	-3.0319	19.083	0.0	0.0
	-4.00000	22.00000	19.50000	-3.7520	19.083	0.0	0.0
	-3.00000	22.00000	19.50000	-4.6963	19.083	0.0	0.0
	-2.00000	22.00000	19.50000	-5.9824	19.083	0.0	0.0
	-1.00000	22.00000	19.50000	-7.8546	19.083	0.0	0.0
	0.00000	22.00000	19.50000	-10.986	19.083	0.0	0.0
	1.00000	22.00000	19.50000	-14.115	19.083	0.0	0.0
	2.00000	22.00000	19.50000	-15.983	19.083	0.0	0.0
	3.00000	22.00000	19.50000	-17.261	19.083	0.0	0.0
	4.00000	22.00000	19.50000	-18.193	19.083	0.0	0.0
	5.00000	22.00000	19.50000	-18.897	19.083	0.0	0.0
	6.00000	22.00000	19.50000	-19.440	19.083	0.0	0.0
	7.00000	22.00000	19.50000	-19.862	19.083	0.0	0.0
	8.00000	22.00000	19.50000	-20.192	19.083	0.0	0.0
	9.00000	22.00000	19.50000	-20.448	19.083	0.0	0.0
	10.00000	22.00000	19.50000	-20.645	19.083	0.0	0.0
	11.00000	22.00000	19.50000	-20.791	19.083	0.0	0.0
	12.00000	22.00000	19.50000	-20.894	19.083	0.0	0.0
	13.00000	22.00000	19.50000	-20.958	19.083	0.0	0.0
	14.00000	22.00000	19.50000	-20.987	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	15.00000	22.00000	19.50000	-20.982	19.083	0.0	0.0
	16.00000	22.00000	19.50000	-20.943	19.083	0.0	0.0
	17.00000	22.00000	19.50000	-20.866	19.083	0.0	0.0
	18.00000	22.00000	19.50000	-20.745	19.083	0.0	0.0
	19.00000	22.00000	19.50000	-20.564	19.083	0.0	0.0
	20.00000	22.00000	19.50000	-20.873	19.083	0.0	0.0
	21.00000	22.00000	19.50000	-21.160	19.083	0.0	0.0
	22.00000	22.00000	19.50000	-20.911	19.083	0.0	0.0
	23.00000	22.00000	19.50000	-20.674	19.083	0.0	0.0
	24.00000	22.00000	19.50000	-20.428	19.083	0.0	0.0
	25.00000	22.00000	19.50000	-20.159	19.083	0.0	0.0
	26.00000	22.00000	19.50000	-19.852	19.083	0.0	0.0
	27.00000	22.00000	19.50000	-19.493	19.083	0.0	0.0
	28.00000	22.00000	19.50000	-19.060	19.083	0.0	0.0
	29.00000	22.00000	19.50000	-18.527	19.083	0.0	0.0
	30.00000	22.00000	19.50000	-17.852	19.083	0.0	0.0
	31.00000	22.00000	19.50000	-16.974	19.083	0.0	0.0
	32.00000	22.00000	19.50000	-15.782	19.083	0.0	0.0
	33.00000	22.00000	19.50000	-14.045	19.083	0.0	0.0
	34.00000	22.00000	19.50000	-10.540	19.083	0.0	0.0
	35.00000	22.00000	19.50000	-7.0366	19.083	0.0	0.0
	36.00000	22.00000	19.50000	-5.3065	19.083	0.0	0.0
	37.00000	22.00000	19.50000	-4.1257	19.083	0.0	0.0
	38.00000	22.00000	19.50000	-3.2639	19.083	0.0	0.0
	39.00000	22.00000	19.50000	-2.6113	19.083	0.0	0.0
	40.00000	22.00000	19.50000	-2.1054	19.083	0.0	0.0
	41.00000	22.00000	19.50000	-1.7065	19.083	0.0	0.0
	42.00000	22.00000	19.50000	-1.3880	19.083	0.0	0.0
	43.00000	22.00000	19.50000	-1.1312	19.083	0.0	0.0
	44.00000	22.00000	19.50000	-0.92270	19.083	0.0	0.0
	45.00000	22.00000	19.50000	-0.75228	19.083	0.0	0.0
	46.00000	22.00000	19.50000	-0.61235	19.083	0.0	0.0
	47.00000	22.00000	19.50000	-0.49699	19.083	0.0	0.0
	48.00000	22.00000	19.50000	-0.40160	19.083	0.0	0.0
	49.00000	22.00000	19.50000	-0.32252	19.083	0.0	0.0
	50.00000	22.00000	19.50000	-0.25685	19.083	0.0	0.0
	51.00000	22.00000	19.50000	-0.20224	19.083	0.0	0.0
	52.00000	22.00000	19.50000	-0.15679	19.083	0.0	0.0
	53.00000	22.00000	19.50000	-0.11894	19.083	0.0	0.0
	54.00000	22.00000	19.50000	-0.087423	19.083	0.0	0.0
	55.00000	22.00000	19.50000	-0.061977	19.083	0.0	0.0
	-25.00000	23.00000	19.50000	-0.019399	19.083	0.0	0.0
	-24.00000	23.00000	19.50000	-0.035075	19.083	0.0	0.0
	-23.00000	23.00000	19.50000	-0.053768	19.083	0.0	0.0
	-22.00000	23.00000	19.50000	-0.076024	19.083	0.0	0.0
	-21.00000	23.00000	19.50000	-0.10249	19.083	0.0	0.0
	-20.00000	23.00000	19.50000	-0.13395	19.083	0.0	0.0
	-19.00000	23.00000	19.50000	-0.17132	19.083	0.0	0.0
	-18.00000	23.00000	19.50000	-0.21572	19.083	0.0	0.0
	-17.00000	23.00000	19.50000	-0.26849	19.083	0.0	0.0
	-16.00000	23.00000	19.50000	-0.33126	19.083	0.0	0.0
	-15.00000	23.00000	19.50000	-0.40602	19.083	0.0	0.0
	-14.00000	23.00000	19.50000	-0.49518	19.083	0.0	0.0
	-13.00000	23.00000	19.50000	-0.60174	19.083	0.0	0.0
	-12.00000	23.00000	19.50000	-0.72941	19.083	0.0	0.0
	-11.00000	23.00000	19.50000	-0.88285	19.083	0.0	0.0
	-10.00000	23.00000	19.50000	-1.0680	19.083	0.0	0.0
	-9.00000	23.00000	19.50000	-1.2924	19.083	0.0	0.0
	-8.00000	23.00000	19.50000	-1.5661	19.083	0.0	0.0
	-7.00000	23.00000	19.50000	-1.9023	19.083	0.0	0.0
	-6.00000	23.00000	19.50000	-2.3196	19.083	0.0	0.0
	-5.00000	23.00000	19.50000	-2.8439	19.083	0.0	0.0
	-4.00000	23.00000	19.50000	-3.5150	19.083	0.0	0.0
	-3.00000	23.00000	19.50000	-4.3964	19.083	0.0	0.0
	-2.00000	23.00000	19.50000	-5.6032	19.083	0.0	0.0
	-1.00000	23.00000	19.50000	-7.3793	19.083	0.0	0.0
	0.00000	23.00000	19.50000	-10.403	19.083	0.0	0.0
	1.00000	23.00000	19.50000	-13.425	19.083	0.0	0.0
	2.00000	23.00000	19.50000	-15.196	19.083	0.0	0.0
	3.00000	23.00000	19.50000	-16.395	19.083	0.0	0.0
	4.00000	23.00000	19.50000	-17.265	19.083	0.0	0.0
	5.00000	23.00000	19.50000	-17.921	19.083	0.0	0.0
	6.00000	23.00000	19.50000	-18.427	19.083	0.0	0.0
	7.00000	23.00000	19.50000	-18.820	19.083	0.0	0.0
	8.00000	23.00000	19.50000	-19.128	19.083	0.0	0.0
	9.00000	23.00000	19.50000	-19.368	19.083	0.0	0.0
	10.00000	23.00000	19.50000	-19.551	19.083	0.0	0.0
	11.00000	23.00000	19.50000	-19.689	19.083	0.0	0.0
	12.00000	23.00000	19.50000	-19.785	19.083	0.0	0.0
	13.00000	23.00000	19.50000	-19.846	19.083	0.0	0.0
	14.00000	23.00000	19.50000	-19.873	19.083	0.0	0.0
	15.00000	23.00000	19.50000	-19.869	19.083	0.0	0.0
	16.00000	23.00000	19.50000	-19.833	19.083	0.0	0.0
	17.00000	23.00000	19.50000	-19.761	19.083	0.0	0.0
	18.00000	23.00000	19.50000	-19.647	19.083	0.0	0.0
	19.00000	23.00000	19.50000	-19.476	19.083	0.0	0.0
	20.00000	23.00000	19.50000	-19.796	19.083	0.0	0.0
	21.00000	23.00000	19.50000	-20.097	19.083	0.0	0.0
	22.00000	23.00000	19.50000	-19.862	19.083	0.0	0.0
	23.00000	23.00000	19.50000	-19.639	19.083	0.0	0.0
	24.00000	23.00000	19.50000	-19.408	19.083	0.0	0.0
	25.00000	23.00000	19.50000	-19.156	19.083	0.0	0.0
	26.00000	23.00000	19.50000	-18.870	19.083	0.0	0.0
	27.00000	23.00000	19.50000	-18.534	19.083	0.0	0.0
	28.00000	23.00000	19.50000	-18.130	19.083	0.0	0.0
	29.00000	23.00000	19.50000	-17.633	19.083	0.0	0.0
	30.00000	23.00000	19.50000	-17.005	19.083	0.0	0.0
	31.00000	23.00000	19.50000	-16.185	19.083	0.0	0.0
	32.00000	23.00000	19.50000	-15.066	19.083	0.0	0.0
	33.00000	23.00000	19.50000	-13.418	19.083	0.0	0.0
	34.00000	23.00000	19.50000	-10.012	19.083	0.0	0.0
	35.00000	23.00000	19.50000	-6.6086	19.083	0.0	0.0
	36.00000	23.00000	19.50000	-4.9671	19.083	0.0	0.0
	37.00000	23.00000	19.50000	-3.8590	19.083	0.0	0.0
	38.00000	23.00000	19.50000	-3.0546	19.083	0.0	0.0
	39.00000	23.00000	19.50000	-2.4466	19.083	0.0	0.0
	40.00000	23.00000	19.50000	-1.9751	19.083	0.0	0.0
	41.00000	23.00000	19.50000	-1.6029	19.083	0.0	0.0
	42.00000	23.00000	19.50000	-1.3053	19.083	0.0	0.0
	43.00000	23.00000	19.50000	-1.0650	19.083	0.0	0.0
	44.00000	23.00000	19.50000	-0.86943	19.083	0.0	0.0
	45.00000	23.00000	19.50000	-0.70931	19.083	0.0	0.0
	46.00000	23.00000	19.50000	-0.57758	19.083	0.0	0.0
	47.00000	23.00000	19.50000	-0.46880	19.083	0.0	0.0
	48.00000	23.00000	19.50000	-0.37870	19.083	0.0	0.0
	49.00000	23.00000	19.50000	-0.30390	19.083	0.0	0.0
	50.00000	23.00000	19.50000	-0.24169	19.083	0.0	0.0
	51.00000	23.00000	19.50000	-0.18988	19.083	0.0	0.0
	52.00000	23.00000	19.50000	-0.14671	19.083	0.0	0.0
	53.00000	23.00000	19.50000	-0.11073	19.083	0.0	0.0
	54.00000	23.00000	19.50000	-0.080732	19.083	0.0	0.0
	55.00000	23.00000	19.50000	-0.055750	19.083	0.0	0.0
	-25.00000	24.00000	19.50000	-0.015960	19.083	0.0	0.0
	-24.00000	24.00000	19.50000	-0.030882	19.083	0.0	0.0
	-23.00000	24.00000	19.50000	-0.048665	19.083	0.0	0.0
	-22.00000	24.00000	19.50000	-0.069821	19.083	0.0	0.0
	-21.00000	24.00000	19.50000	-0.094957	19.083	0.0	0.0
	-20.00000	24.00000	19.50000	-0.12480	19.083	0.0	0.0
	-19.00000	24.00000	19.50000	-0.16021	19.083	0.0	0.0
	-18.00000	24.00000	19.50000	-0.20222	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-17.00000	24.00000	19.50000	-0.25209	19.083	0.0	0.0
	-16.00000	24.00000	19.50000	-0.31131	19.083	0.0	0.0
	-15.00000	24.00000	19.50000	-0.38172	19.083	0.0	0.0
	-14.00000	24.00000	19.50000	-0.46553	19.083	0.0	0.0
	-13.00000	24.00000	19.50000	-0.56550	19.083	0.0	0.0
	-12.00000	24.00000	19.50000	-0.68499	19.083	0.0	0.0
	-11.00000	24.00000	19.50000	-0.82826	19.083	0.0	0.0
	-10.00000	24.00000	19.50000	-1.0006	19.083	0.0	0.0
	-9.00000	24.00000	19.50000	-1.2090	19.083	0.0	0.0
	-8.00000	24.00000	19.50000	-1.4623	19.083	0.0	0.0
	-7.00000	24.00000	19.50000	-1.7725	19.083	0.0	0.0
	-6.00000	24.00000	19.50000	-2.1559	19.083	0.0	0.0
	-5.00000	24.00000	19.50000	-2.6359	19.083	0.0	0.0
	-4.00000	24.00000	19.50000	-3.2479	19.083	0.0	0.0
	-3.00000	24.00000	19.50000	-4.0498	19.083	0.0	0.0
	-2.00000	24.00000	19.50000	-5.1486	19.083	0.0	0.0
	-1.00000	24.00000	19.50000	-6.7812	19.083	0.0	0.0
	0.00000	24.00000	19.50000	-9.6315	19.083	0.0	0.0
	1.00000	24.00000	19.50000	-12.480	19.083	0.0	0.0
	2.00000	24.00000	19.50000	-14.109	19.083	0.0	0.0
	3.00000	24.00000	19.50000	-15.200	19.083	0.0	0.0
	4.00000	24.00000	19.50000	-15.991	19.083	0.0	0.0
	5.00000	24.00000	19.50000	-16.589	19.083	0.0	0.0
	6.00000	24.00000	19.50000	-17.051	19.083	0.0	0.0
	7.00000	24.00000	19.50000	-17.412	19.083	0.0	0.0
	8.00000	24.00000	19.50000	-17.695	19.083	0.0	0.0
	9.00000	24.00000	19.50000	-17.916	19.083	0.0	0.0
	10.00000	24.00000	19.50000	-18.086	19.083	0.0	0.0
	11.00000	24.00000	19.50000	-18.214	19.083	0.0	0.0
	12.00000	24.00000	19.50000	-18.303	19.083	0.0	0.0
	13.00000	24.00000	19.50000	-18.360	19.083	0.0	0.0
	14.00000	24.00000	19.50000	-18.386	19.083	0.0	0.0
	15.00000	24.00000	19.50000	-18.383	19.083	0.0	0.0
	16.00000	24.00000	19.50000	-18.350	19.083	0.0	0.0
	17.00000	24.00000	19.50000	-18.285	19.083	0.0	0.0
	18.00000	24.00000	19.50000	-18.180	19.083	0.0	0.0
	19.00000	24.00000	19.50000	-18.022	19.083	0.0	0.0
	20.00000	24.00000	19.50000	-18.360	19.083	0.0	0.0
	21.00000	24.00000	19.50000	-18.678	19.083	0.0	0.0
	22.00000	24.00000	19.50000	-18.461	19.083	0.0	0.0
	23.00000	24.00000	19.50000	-18.255	19.083	0.0	0.0
	24.00000	24.00000	19.50000	-18.042	19.083	0.0	0.0
	25.00000	24.00000	19.50000	-17.809	19.083	0.0	0.0
	26.00000	24.00000	19.50000	-17.544	19.083	0.0	0.0
	27.00000	24.00000	19.50000	-17.234	19.083	0.0	0.0
	28.00000	24.00000	19.50000	-16.864	19.083	0.0	0.0
	29.00000	24.00000	19.50000	-16.409	19.083	0.0	0.0
	30.00000	24.00000	19.50000	-15.836	19.083	0.0	0.0
	31.00000	24.00000	19.50000	-15.090	19.083	0.0	0.0
	32.00000	24.00000	19.50000	-14.071	19.083	0.0	0.0
	33.00000	24.00000	19.50000	-12.556	19.083	0.0	0.0
	34.00000	24.00000	19.50000	-9.3109	19.083	0.0	0.0
	35.00000	24.00000	19.50000	-6.0674	19.083	0.0	0.0
	36.00000	24.00000	19.50000	-4.5583	19.083	0.0	0.0
	37.00000	24.00000	19.50000	-3.5496	19.083	0.0	0.0
	38.00000	24.00000	19.50000	-2.8181	19.083	0.0	0.0
	39.00000	24.00000	19.50000	-2.2638	19.083	0.0	0.0
	40.00000	24.00000	19.50000	-1.8324	19.083	0.0	0.0
	41.00000	24.00000	19.50000	-1.4906	19.083	0.0	0.0
	42.00000	24.00000	19.50000	-1.2163	19.083	0.0	0.0
	43.00000	24.00000	19.50000	-0.99399	19.083	0.0	0.0
	44.00000	24.00000	19.50000	-0.81251	19.083	0.0	0.0
	45.00000	24.00000	19.50000	-0.66350	19.083	0.0	0.0
	46.00000	24.00000	19.50000	-0.54060	19.083	0.0	0.0
	47.00000	24.00000	19.50000	-0.43886	19.083	0.0	0.0
	48.00000	24.00000	19.50000	-0.35440	19.083	0.0	0.0
	49.00000	24.00000	19.50000	-0.28415	19.083	0.0	0.0
	50.00000	24.00000	19.50000	-0.22561	19.083	0.0	0.0
	51.00000	24.00000	19.50000	-0.17679	19.083	0.0	0.0
	52.00000	24.00000	19.50000	-0.13604	19.083	0.0	0.0
	53.00000	24.00000	19.50000	-0.10203	19.083	0.0	0.0
	54.00000	24.00000	19.50000	-0.073646	19.083	0.0	0.0
	55.00000	24.00000	19.50000	-0.049982	19.083	0.0	0.0
	-25.00000	25.00000	19.50000	-0.012362	19.083	0.0	0.0
	-24.00000	25.00000	19.50000	-0.026496	19.083	0.0	0.0
	-23.00000	25.00000	19.50000	-0.04327	19.083	0.0	0.0
	-22.00000	25.00000	19.50000	-0.063333	19.083	0.0	0.0
	-21.00000	25.00000	19.50000	-0.087079	19.083	0.0	0.0
	-20.00000	25.00000	19.50000	-0.11523	19.083	0.0	0.0
	-19.00000	25.00000	19.50000	-0.14860	19.083	0.0	0.0
	-18.00000	25.00000	19.50000	-0.18813	19.083	0.0	0.0
	-17.00000	25.00000	19.50000	-0.23496	19.083	0.0	0.0
	-16.00000	25.00000	19.50000	-0.29048	19.083	0.0	0.0
	-15.00000	25.00000	19.50000	-0.35634	19.083	0.0	0.0
	-14.00000	25.00000	19.50000	-0.43457	19.083	0.0	0.0
	-13.00000	25.00000	19.50000	-0.52763	19.083	0.0	0.0
	-12.00000	25.00000	19.50000	-0.63856	19.083	0.0	0.0
	-11.00000	25.00000	19.50000	-0.77113	19.083	0.0	0.0
	-10.00000	25.00000	19.50000	-0.93008	19.083	0.0	0.0
	-9.00000	25.00000	19.50000	-1.1214	19.083	0.0	0.0
	-8.00000	25.00000	19.50000	-1.3530	19.083	0.0	0.0
	-7.00000	25.00000	19.50000	-1.6350	19.083	0.0	0.0
	-6.00000	25.00000	19.50000	-1.9815	19.083	0.0	0.0
	-5.00000	25.00000	19.50000	-2.4120	19.083	0.0	0.0
	-4.00000	25.00000	19.50000	-2.9561	19.083	0.0	0.0
	-3.00000	25.00000	19.50000	-3.6613	19.083	0.0	0.0
	-2.00000	25.00000	19.50000	-4.6163	19.083	0.0	0.0
	-1.00000	25.00000	19.50000	-6.0262	19.083	0.0	0.0
	0.00000	25.00000	19.50000	-8.5525	19.083	0.0	0.0
	1.00000	25.00000	19.50000	-11.077	19.083	0.0	0.0
	2.00000	25.00000	19.50000	-12.483	19.083	0.0	0.0
	3.00000	25.00000	19.50000	-13.431	19.083	0.0	0.0
	4.00000	25.00000	19.50000	-14.126	19.083	0.0	0.0
	5.00000	25.00000	19.50000	-14.657	19.083	0.0	0.0
	6.00000	25.00000	19.50000	-15.070	19.083	0.0	0.0
	7.00000	25.00000	19.50000	-15.396	19.083	0.0	0.0
	8.00000	25.00000	19.50000	-15.653	19.083	0.0	0.0
	9.00000	25.00000	19.50000	-15.854	19.083	0.0	0.0
	10.00000	25.00000	19.50000	-16.010	19.083	0.0	0.0
	11.00000	25.00000	19.50000	-16.126	19.083	0.0	0.0
	12.00000	25.00000	19.50000	-16.209	19.083	0.0	0.0
	13.00000	25.00000	19.50000	-16.262	19.083	0.0	0.0
	14.00000	25.00000	19.50000	-16.287	19.083	0.0	0.0
	15.00000	25.00000	19.50000	-16.285	19.083	0.0	0.0
	16.00000	25.00000	19.50000	-16.256	19.083	0.0	0.0
	17.00000	25.00000	19.50000	-16.198	19.083	0.0	0.0
	18.00000	25.00000	19.50000	-16.105	19.083	0.0	0.0
	19.00000	25.00000	19.50000	-15.966	19.083	0.0	0.0
	20.00000	25.00000	19.50000	-16.330	19.083	0.0	0.0
	21.00000	25.00000	19.50000	-16.676	19.083	0.0	0.0
	22.00000	25.00000	19.50000	-16.482	19.083	0.0	0.0
	23.00000	25.00000	19.50000	-16.296	19.083	0.0	0.0
	24.00000	25.00000	19.50000	-16.103	19.083	0.0	0.0
	25.00000	25.00000	19.50000	-15.891	19.083	0.0	0.0
	26.00000	25.00000	19.50000	-15.649	19.083	0.0	0.0
	27.00000	25.00000	19.50000	-15.368	19.083	0.0	0.0
	28.00000	25.00000	19.50000	-15.033	19.083	0.0	0.0
	29.00000	25.00000	19.50000	-14.625	19.083	0.0	0.0
	30.00000	25.00000	19.50000	-14.116	19.083	0.0	0.0
	31.00000	25.00000	19.50000	-13.460	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] Z [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	32.00000	25.00000	19.50000	-12.575	19.083	0.0	0.0
	33.00000	25.00000	19.50000	-11.267	19.083	0.0	0.0
	34.00000	25.00000	19.50000	-8.3228	19.083	0.0	0.0
	35.00000	25.00000	19.50000	-5.3808	19.083	0.0	0.0
	36.00000	25.00000	19.50000	-4.0779	19.083	0.0	0.0
	37.00000	25.00000	19.50000	-3.2018	19.083	0.0	0.0
	38.00000	25.00000	19.50000	-2.5590	19.083	0.0	0.0
	39.00000	25.00000	19.50000	-2.0667	19.083	0.0	0.0
	40.00000	25.00000	19.50000	-1.6802	19.083	0.0	0.0
	41.00000	25.00000	19.50000	-1.3716	19.083	0.0	0.0
	42.00000	25.00000	19.50000	-1.1224	19.083	0.0	0.0
	43.00000	25.00000	19.50000	-0.91937	19.083	0.0	0.0
	44.00000	25.00000	19.50000	-0.75285	19.083	0.0	0.0
	45.00000	25.00000	19.50000	-0.61557	19.083	0.0	0.0
	46.00000	25.00000	19.50000	-0.50194	19.083	0.0	0.0
	47.00000	25.00000	19.50000	-0.40759	19.083	0.0	0.0
	48.00000	25.00000	19.50000	-0.32904	19.083	0.0	0.0
	49.00000	25.00000	19.50000	-0.26354	19.083	0.0	0.0
	50.00000	25.00000	19.50000	-0.20884	19.083	0.0	0.0
	51.00000	25.00000	19.50000	-0.16312	19.083	0.0	0.0
	52.00000	25.00000	19.50000	-0.12490	19.083	0.0	0.0
	53.00000	25.00000	19.50000	-0.092950	19.083	0.0	0.0
	54.00000	25.00000	19.50000	-0.066250	19.083	0.0	0.0
	55.00000	25.00000	19.50000	-0.043960	19.083	0.0	0.0
	-25.00000	26.00000	19.50000	-0.0086431	19.083	0.0	0.0
	-24.00000	26.00000	19.50000	-0.021963	19.083	0.0	0.0
	-23.00000	26.00000	19.50000	-0.037813	19.083	0.0	0.0
	-22.00000	26.00000	19.50000	-0.056633	19.083	0.0	0.0
	-21.00000	26.00000	19.50000	-0.078946	19.083	0.0	0.0
	-20.00000	26.00000	19.50000	-0.10537	19.083	0.0	0.0
	-19.00000	26.00000	19.50000	-0.13663	19.083	0.0	0.0
	-18.00000	26.00000	19.50000	-0.17360	19.083	0.0	0.0
	-17.00000	26.00000	19.50000	-0.21732	19.083	0.0	0.0
	-16.00000	26.00000	19.50000	-0.26903	19.083	0.0	0.0
	-15.00000	26.00000	19.50000	-0.33023	19.083	0.0	0.0
	-14.00000	26.00000	19.50000	-0.40271	19.083	0.0	0.0
	-13.00000	26.00000	19.50000	-0.48868	19.083	0.0	0.0
	-12.00000	26.00000	19.50000	-0.59080	19.083	0.0	0.0
	-11.00000	26.00000	19.50000	-0.71238	19.083	0.0	0.0
	-10.00000	26.00000	19.50000	-0.85750	19.083	0.0	0.0
	-9.00000	26.00000	19.50000	-1.03213	19.083	0.0	0.0
	-8.00000	26.00000	19.50000	-1.2403	19.083	0.0	0.0
	-7.00000	26.00000	19.50000	-1.4931	19.083	0.0	0.0
	-6.00000	26.00000	19.50000	-1.8008	19.083	0.0	0.0
	-5.00000	26.00000	19.50000	-2.1788	19.083	0.0	0.0
	-4.00000	26.00000	19.50000	-2.6493	19.083	0.0	0.0
	-3.00000	26.00000	19.50000	-3.2461	19.083	0.0	0.0
	-2.00000	26.00000	19.50000	-4.0275	19.083	0.0	0.0
	-1.00000	26.00000	19.50000	-5.1131	19.083	0.0	0.0
	0.00000	26.00000	19.50000	-6.8344	19.083	0.0	0.0
	1.00000	26.00000	19.50000	-8.5544	19.083	0.0	0.0
	2.00000	26.00000	19.50000	-9.6360	19.083	0.0	0.0
	3.00000	26.00000	19.50000	-10.411	19.083	0.0	0.0
	4.00000	26.00000	19.50000	-10.998	19.083	0.0	0.0
	5.00000	26.00000	19.50000	-11.456	19.083	0.0	0.0
	6.00000	26.00000	19.50000	-11.818	19.083	0.0	0.0
	7.00000	26.00000	19.50000	-12.106	19.083	0.0	0.0
	8.00000	26.00000	19.50000	-12.335	19.083	0.0	0.0
	9.00000	26.00000	19.50000	-12.516	19.083	0.0	0.0
	10.00000	26.00000	19.50000	-12.657	19.083	0.0	0.0
	11.00000	26.00000	19.50000	-12.763	19.083	0.0	0.0
	12.00000	26.00000	19.50000	-12.839	19.083	0.0	0.0
	13.00000	26.00000	19.50000	-12.887	19.083	0.0	0.0
	14.00000	26.00000	19.50000	-12.911	19.083	0.0	0.0
	15.00000	26.00000	19.50000	-12.910	19.083	0.0	0.0
	16.00000	26.00000	19.50000	-12.885	19.083	0.0	0.0
	17.00000	26.00000	19.50000	-12.836	19.083	0.0	0.0
	18.00000	26.00000	19.50000	-12.757	19.083	0.0	0.0
	19.00000	26.00000	19.50000	-12.643	19.083	0.0	0.0
	20.00000	26.00000	19.50000	-12.769	19.083	0.0	0.0
	21.00000	26.00000	19.50000	-12.878	19.083	0.0	0.0
	22.00000	26.00000	19.50000	-12.714	19.083	0.0	0.0
	23.00000	26.00000	19.50000	-12.551	19.083	0.0	0.0
	24.00000	26.00000	19.50000	-12.378	19.083	0.0	0.0
	25.00000	26.00000	19.50000	-12.187	19.083	0.0	0.0
	26.00000	26.00000	19.50000	-11.970	19.083	0.0	0.0
	27.00000	26.00000	19.50000	-11.719	19.083	0.0	0.0
	28.00000	26.00000	19.50000	-11.421	19.083	0.0	0.0
	29.00000	26.00000	19.50000	-11.063	19.083	0.0	0.0
	30.00000	26.00000	19.50000	-10.622	19.083	0.0	0.0
	31.00000	26.00000	19.50000	-10.067	19.083	0.0	0.0
	32.00000	26.00000	19.50000	-9.3434	19.083	0.0	0.0
	33.00000	26.00000	19.50000	-8.3372	19.083	0.0	0.0
	34.00000	26.00000	19.50000	-6.4411	19.083	0.0	0.0
	35.00000	26.00000	19.50000	-4.5466	19.083	0.0	0.0
	36.00000	26.00000	19.50000	-3.5453	19.083	0.0	0.0
	37.00000	26.00000	19.50000	-2.8295	19.083	0.0	0.0
	38.00000	26.00000	19.50000	-2.2864	19.083	0.0	0.0
	39.00000	26.00000	19.50000	-1.8613	19.083	0.0	0.0
	40.00000	26.00000	19.50000	-1.5224	19.083	0.0	0.0
	41.00000	26.00000	19.50000	-1.2487	19.083	0.0	0.0
	42.00000	26.00000	19.50000	-1.0256	19.083	0.0	0.0
	43.00000	26.00000	19.50000	-0.84256	19.083	0.0	0.0
	44.00000	26.00000	19.50000	-0.69149	19.083	0.0	0.0
	45.00000	26.00000	19.50000	-0.56630	19.083	0.0	0.0
	46.00000	26.00000	19.50000	-0.46221	19.083	0.0	0.0
	47.00000	26.00000	19.50000	-0.37544	19.083	0.0	0.0
	48.00000	26.00000	19.50000	-0.30297	19.083	0.0	0.0
	49.00000	26.00000	19.50000	-0.24234	19.083	0.0	0.0
	50.00000	26.00000	19.50000	-0.19158	19.083	0.0	0.0
	51.00000	26.00000	19.50000	-0.14906	19.083	0.0	0.0
	52.00000	26.00000	19.50000	-0.11344	19.083	0.0	0.0
	53.00000	26.00000	19.50000	-0.083602	19.083	0.0	0.0
	54.00000	26.00000	19.50000	-0.058630	19.083	0.0	0.0
	55.00000	26.00000	19.50000	-0.037756	19.083	0.0	0.0
	-25.00000	27.00000	19.50000	-0.0048432	19.083	0.0	0.0
	-24.00000	27.00000	19.50000	-0.017332	19.083	0.0	0.0
	-23.00000	27.00000	19.50000	-0.032180	19.083	0.0	0.0
	-22.00000	27.00000	19.50000	-0.049793	19.083	0.0	0.0
	-21.00000	27.00000	19.50000	-0.070647	19.083	0.0	0.0
	-20.00000	27.00000	19.50000	-0.095305	19.083	0.0	0.0
	-19.00000	27.00000	19.50000	-0.12443	19.083	0.0	0.0
	-18.00000	27.00000	19.50000	-0.15880	19.083	0.0	0.0
	-17.00000	27.00000	19.50000	-0.19937	19.083	0.0	0.0
	-16.00000	27.00000	19.50000	-0.24723	19.083	0.0	0.0
	-15.00000	27.00000	19.50000	-0.30371	19.083	0.0	0.0
	-14.00000	27.00000	19.50000	-0.37040	19.083	0.0	0.0
	-13.00000	27.00000	19.50000	-0.44921	19.083	0.0	0.0
	-12.00000	27.00000	19.50000	-0.54246	19.083	0.0	0.0
	-11.00000	27.00000	19.50000	-0.65296	19.083	0.0	0.0
	-10.00000	27.00000	19.50000	-0.78487	19.083	0.0	0.0
	-9.00000	27.00000	19.50000	-0.94032	19.083	0.0	0.0
	-8.00000	27.00000	19.50000	-1.1267	19.083	0.0	0.0
	-7.00000	27.00000	19.50000	-1.3501	19.083	0.0	0.0
	-6.00000	27.00000	19.50000	-1.6189	19.083	0.0	0.0
	-5.00000	27.00000	19.50000	-1.9444	19.083	0.0	0.0
	-4.00000	27.00000	19.50000	-2.3412	19.083	0.0	0.0
	-3.00000	27.00000	19.50000	-2.8295	19.083	0.0	0.0
	-2.00000	27.00000	19.50000	-3.4371	19.083	0.0	0.0
	-1.00000	27.00000	19.50000	-4.1982	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
0.00000	27.00000	19.50000	-5.1144	19.083	0.0	0.0	0.0
1.00000	27.00000	19.50000	-6.0294	19.083	0.0	0.0	0.0
2.00000	27.00000	19.50000	-6.7869	19.083	0.0	0.0	0.0
3.00000	27.00000	19.50000	-7.3882	19.083	0.0	0.0	0.0
4.00000	27.00000	19.50000	-7.8677	19.083	0.0	0.0	0.0
5.00000	27.00000	19.50000	-8.2528	19.083	0.0	0.0	0.0
6.00000	27.00000	19.50000	-8.5635	19.083	0.0	0.0	0.0
7.00000	27.00000	19.50000	-8.8142	19.083	0.0	0.0	0.0
8.00000	27.00000	19.50000	-9.0157	19.083	0.0	0.0	0.0
9.00000	27.00000	19.50000	-9.1761	19.083	0.0	0.0	0.0
10.00000	27.00000	19.50000	-9.3016	19.083	0.0	0.0	0.0
11.00000	27.00000	19.50000	-9.3968	19.083	0.0	0.0	0.0
12.00000	27.00000	19.50000	-9.4652	19.083	0.0	0.0	0.0
13.00000	27.00000	19.50000	-9.5095	19.083	0.0	0.0	0.0
14.00000	27.00000	19.50000	-9.5315	19.083	0.0	0.0	0.0
15.00000	27.00000	19.50000	-9.5322	19.083	0.0	0.0	0.0
16.00000	27.00000	19.50000	-9.5120	19.083	0.0	0.0	0.0
17.00000	27.00000	19.50000	-9.4706	19.083	0.0	0.0	0.0
18.00000	27.00000	19.50000	-9.4066	19.083	0.0	0.0	0.0
19.00000	27.00000	19.50000	-9.3177	19.083	0.0	0.0	0.0
20.00000	27.00000	19.50000	-9.2046	19.083	0.0	0.0	0.0
21.00000	27.00000	19.50000	-9.0767	19.083	0.0	0.0	0.0
22.00000	27.00000	19.50000	-8.9428	19.083	0.0	0.0	0.0
23.00000	27.00000	19.50000	-8.8020	19.083	0.0	0.0	0.0
24.00000	27.00000	19.50000	-8.6496	19.083	0.0	0.0	0.0
25.00000	27.00000	19.50000	-8.4802	19.083	0.0	0.0	0.0
26.00000	27.00000	19.50000	-8.2881	19.083	0.0	0.0	0.0
27.00000	27.00000	19.50000	-8.0665	19.083	0.0	0.0	0.0
28.00000	27.00000	19.50000	-7.8069	19.083	0.0	0.0	0.0
29.00000	27.00000	19.50000	-7.4985	19.083	0.0	0.0	0.0
30.00000	27.00000	19.50000	-7.1269	19.083	0.0	0.0	0.0
31.00000	27.00000	19.50000	-6.6729	19.083	0.0	0.0	0.0
32.00000	27.00000	19.50000	-6.1102	19.083	0.0	0.0	0.0
33.00000	27.00000	19.50000	-5.4061	19.083	0.0	0.0	0.0
34.00000	27.00000	19.50000	-4.5578	19.083	0.0	0.0	0.0
35.00000	27.00000	19.50000	-3.71110	19.083	0.0	0.0	0.0
36.00000	27.00000	19.50000	-3.0114	19.083	0.0	0.0	0.0
37.00000	27.00000	19.50000	-2.4561	19.083	0.0	0.0	0.0
38.00000	27.00000	19.50000	-2.0126	19.083	0.0	0.0	0.0
39.00000	27.00000	19.50000	-1.6549	19.083	0.0	0.0	0.0
40.00000	27.00000	19.50000	-1.3637	19.083	0.0	0.0	0.0
41.00000	27.00000	19.50000	-1.1250	19.083	0.0	0.0	0.0
42.00000	27.00000	19.50000	-0.92813	19.083	0.0	0.0	0.0
43.00000	27.00000	19.50000	-0.76510	19.083	0.0	0.0	0.0
44.00000	27.00000	19.50000	-0.62955	19.083	0.0	0.0	0.0
45.00000	27.00000	19.50000	-0.51651	19.083	0.0	0.0	0.0
46.00000	27.00000	19.50000	-0.42202	19.083	0.0	0.0	0.0
47.00000	27.00000	19.50000	-0.34290	19.083	0.0	0.0	0.0
48.00000	27.00000	19.50000	-0.27654	19.083	0.0	0.0	0.0
49.00000	27.00000	19.50000	-0.22084	19.083	0.0	0.0	0.0
50.00000	27.00000	19.50000	-0.17407	19.083	0.0	0.0	0.0
51.00000	27.00000	19.50000	-0.13478	19.083	0.0	0.0	0.0
52.00000	27.00000	19.50000	-0.10178	19.083	0.0	0.0	0.0
53.00000	27.00000	19.50000	-0.074093	19.083	0.0	0.0	0.0
54.00000	27.00000	19.50000	-0.050876	19.083	0.0	0.0	0.0
55.00000	27.00000	19.50000	-0.031439	19.083	0.0	0.0	0.0
-25.00000	28.00000	19.50000	-0.0010008	19.083	0.0	0.0	0.0
-24.00000	28.00000	19.50000	-0.012650	19.083	0.0	0.0	0.0
-23.00000	28.00000	19.50000	-0.026489	19.083	0.0	0.0	0.0
-22.00000	28.00000	19.50000	-0.042885	19.083	0.0	0.0	0.0
-21.00000	28.00000	19.50000	-0.062272	19.083	0.0	0.0	0.0
-20.00000	28.00000	19.50000	-0.085157	19.083	0.0	0.0	0.0
-19.00000	28.00000	19.50000	-0.11214	19.083	0.0	0.0	0.0
-18.00000	28.00000	19.50000	-0.14392	19.083	0.0	0.0	0.0
-17.00000	28.00000	19.50000	-0.18132	19.083	0.0	0.0	0.0
-16.00000	28.00000	19.50000	-0.22513	19.083	0.0	0.0	0.0
-15.00000	28.00000	19.50000	-0.27712	19.083	0.0	0.0	0.0
-14.00000	28.00000	19.50000	-0.33805	19.083	0.0	0.0	0.0
-13.00000	28.00000	19.50000	-0.40977	19.083	0.0	0.0	0.0
-12.00000	28.00000	19.50000	-0.49424	19.083	0.0	0.0	0.0
-11.00000	28.00000	19.50000	-0.59383	19.083	0.0	0.0	0.0
-10.00000	28.00000	19.50000	-0.71135	19.083	0.0	0.0	0.0
-9.00000	28.00000	19.50000	-0.85023	19.083	0.0	0.0	0.0
-8.00000	28.00000	19.50000	-1.0146	19.083	0.0	0.0	0.0
-7.00000	28.00000	19.50000	-1.2095	19.083	0.0	0.0	0.0
-6.00000	28.00000	19.50000	-1.4411	19.083	0.0	0.0	0.0
-5.00000	28.00000	19.50000	-1.7167	19.083	0.0	0.0	0.0
-4.00000	28.00000	19.50000	-2.0452	19.083	0.0	0.0	0.0
-3.00000	28.00000	19.50000	-2.4365	19.083	0.0	0.0	0.0
-2.00000	28.00000	19.50000	-2.9000	19.083	0.0	0.0	0.0
-1.00000	28.00000	19.50000	-3.4381	19.083	0.0	0.0	0.0
0.00000	28.00000	19.50000	-4.0298	19.083	0.0	0.0	0.0
1.00000	28.00000	19.50000	-4.6205	19.083	0.0	0.0	0.0
2.00000	28.00000	19.50000	-5.1551	19.083	0.0	0.0	0.0
3.00000	28.00000	19.50000	-5.6128	19.083	0.0	0.0	0.0
4.00000	28.00000	19.50000	-5.9959	19.083	0.0	0.0	0.0
5.00000	28.00000	19.50000	-6.3136	19.083	0.0	0.0	0.0
6.00000	28.00000	19.50000	-6.5755	19.083	0.0	0.0	0.0
7.00000	28.00000	19.50000	-6.7904	19.083	0.0	0.0	0.0
8.00000	28.00000	19.50000	-6.9651	19.083	0.0	0.0	0.0
9.00000	28.00000	19.50000	-7.1056	19.083	0.0	0.0	0.0
10.00000	28.00000	19.50000	-7.2163	19.083	0.0	0.0	0.0
11.00000	28.00000	19.50000	-7.3010	19.083	0.0	0.0	0.0
12.00000	28.00000	19.50000	-7.3623	19.083	0.0	0.0	0.0
13.00000	28.00000	19.50000	-7.4024	19.083	0.0	0.0	0.0
14.00000	28.00000	19.50000	-7.4229	19.083	0.0	0.0	0.0
15.00000	28.00000	19.50000	-7.4248	19.083	0.0	0.0	0.0
16.00000	28.00000	19.50000	-7.4087	19.083	0.0	0.0	0.0
17.00000	28.00000	19.50000	-7.3748	19.083	0.0	0.0	0.0
18.00000	28.00000	19.50000	-7.3229	19.083	0.0	0.0	0.0
19.00000	28.00000	19.50000	-7.2530	19.083	0.0	0.0	0.0
20.00000	28.00000	19.50000	-7.1665	19.083	0.0	0.0	0.0
21.00000	28.00000	19.50000	-7.0666	19.083	0.0	0.0	0.0
22.00000	28.00000	19.50000	-6.9564	19.083	0.0	0.0	0.0
23.00000	28.00000	19.50000	-6.8359	19.083	0.0	0.0	0.0
24.00000	28.00000	19.50000	-6.7030	19.083	0.0	0.0	0.0
25.00000	28.00000	19.50000	-6.5544	19.083	0.0	0.0	0.0
26.00000	28.00000	19.50000	-6.3862	19.083	0.0	0.0	0.0
27.00000	28.00000	19.50000	-6.1933	19.083	0.0	0.0	0.0
28.00000	28.00000	19.50000	-5.9699	19.083	0.0	0.0	0.0
29.00000	28.00000	19.50000	-5.7087	19.083	0.0	0.0	0.0
30.00000	28.00000	19.50000	-5.4011	19.083	0.0	0.0	0.0
31.00000	28.00000	19.50000	-5.0374	19.083	0.0	0.0	0.0
32.00000	28.00000	19.50000	-4.6083	19.083	0.0	0.0	0.0
33.00000	28.00000	19.50000	-4.1112	19.083	0.0	0.0	0.0
34.00000	28.00000	19.50000	-3.5650	19.083	0.0	0.0	0.0
35.00000	28.00000	19.50000	-3.0201	19.083	0.0	0.0	0.0
36.00000	28.00000	19.50000	-2.5270	19.083	0.0	0.0	0.0
37.00000	28.00000	19.50000	-2.1046	19.083	0.0	0.0	0.0
38.00000	28.00000	19.50000	-1.7502	19.083	0.0	0.0	0.0
39.00000	28.00000	19.50000	-1.4547	19.083	0.0	0.0	0.0
40.00000	28.00000	19.50000	-1.2087	19.083	0.0	0.0	0.0
41.00000	28.00000	19.50000	-1.0034	19.083	0.0	0.0	0.0
42.00000	28.00000	19.50000	-0.83199	19.083	0.0	0.0	0.0
43.00000	28.00000	19.50000	-0.68847	19.083	0.0	0.0	0.0
44.00000	28.00000	19.50000	-0.56811	19.083	0.0	0.0	0.0
45.00000	28.00000	19.50000	-0.46701	19.083	0.0	0.0	0.0
46.00000	28.00000	19.50000	-0.38199	19.083	0.0	0.0	0.0
47.00000	28.00000	19.50000	-0.31042	19.083	0.0	0.0	0.0
48.00000	28.00000	19.50000	-0.25013	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	49.00000	28.00000	19.50000	-0.19932	19.083	0.0	0.0
	50.00000	28.00000	19.50000	-0.15651	19.083	0.0	0.0
	51.00000	28.00000	19.50000	-0.12044	19.083	0.0	0.0
	52.00000	28.00000	19.50000	-0.090077	19.083	0.0	0.0
	53.00000	28.00000	19.50000	-0.064533	19.083	0.0	0.0
	54.00000	28.00000	19.50000	-0.043075	19.083	0.0	0.0
	55.00000	28.00000	19.50000	-0.025081	19.083	0.0	0.0
	-25.00000	29.00000	19.50000	0.0028468	19.083	0.0	0.0
	-24.00000	29.00000	19.50000	-0.0079633	19.083	0.0	0.0
	-23.00000	29.00000	19.50000	-0.020793	19.083	0.0	0.0
	-22.00000	29.00000	19.50000	-0.035977	19.083	0.0	0.0
	-21.00000	29.00000	19.50000	-0.053904	19.083	0.0	0.0
	-20.00000	29.00000	19.50000	-0.075029	19.083	0.0	0.0
	-19.00000	29.00000	19.50000	-0.099885	19.083	0.0	0.0
	-18.00000	29.00000	19.50000	-0.12909	19.083	0.0	0.0
	-17.00000	29.00000	19.50000	-0.16338	19.083	0.0	0.0
	-16.00000	29.00000	19.50000	-0.20361	19.083	0.0	0.0
	-15.00000	29.00000	19.50000	-0.25078	19.083	0.0	0.0
	-14.00000	29.00000	19.50000	-0.30607	19.083	0.0	0.0
	-13.00000	29.00000	19.50000	-0.37087	19.083	0.0	0.0
	-12.00000	29.00000	19.50000	-0.44682	19.083	0.0	0.0
	-11.00000	29.00000	19.50000	-0.53584	19.083	0.0	0.0
	-10.00000	29.00000	19.50000	-0.64021	19.083	0.0	0.0
	-9.00000	29.00000	19.50000	-0.76259	19.083	0.0	0.0
	-8.00000	29.00000	19.50000	-0.90611	19.083	0.0	0.0
	-7.00000	29.00000	19.50000	-1.07444	19.083	0.0	0.0
	-6.00000	29.00000	19.50000	-1.2716	19.083	0.0	0.0
	-5.00000	29.00000	19.50000	-1.5023	19.083	0.0	0.0
	-4.00000	29.00000	19.50000	-1.7712	19.083	0.0	0.0
	-3.00000	29.00000	19.50000	-2.0824	19.083	0.0	0.0
	-2.00000	29.00000	19.50000	-2.43272	19.083	0.0	0.0
	-1.00000	29.00000	19.50000	-2.8311	19.083	0.0	0.0
	0.00000	29.00000	19.50000	-3.2491	19.083	0.0	0.0
	1.00000	29.00000	19.50000	-3.6660	19.083	0.0	0.0
	2.00000	29.00000	19.50000	-4.0567	19.083	0.0	0.0
	3.00000	29.00000	19.50000	-4.4063	19.083	0.0	0.0
	4.00000	29.00000	19.50000	-4.7098	19.083	0.0	0.0
	5.00000	29.00000	19.50000	-4.9687	19.083	0.0	0.0
	6.00000	29.00000	19.50000	-5.1869	19.083	0.0	0.0
	7.00000	29.00000	19.50000	-5.3687	19.083	0.0	0.0
	8.00000	29.00000	19.50000	-5.5185	19.083	0.0	0.0
	9.00000	29.00000	19.50000	-5.6402	19.083	0.0	0.0
	10.00000	29.00000	19.50000	-5.7369	19.083	0.0	0.0
	11.00000	29.00000	19.50000	-5.8114	19.083	0.0	0.0
	12.00000	29.00000	19.50000	-5.8658	19.083	0.0	0.0
	13.00000	29.00000	19.50000	-5.9019	19.083	0.0	0.0
	14.00000	29.00000	19.50000	-5.9208	19.083	0.0	0.0
	15.00000	29.00000	19.50000	-5.9237	19.083	0.0	0.0
	16.00000	29.00000	19.50000	-5.9111	19.083	0.0	0.0
	17.00000	29.00000	19.50000	-5.8834	19.083	0.0	0.0
	18.00000	29.00000	19.50000	-5.8411	19.083	0.0	0.0
	19.00000	29.00000	19.50000	-5.7847	19.083	0.0	0.0
	20.00000	29.00000	19.50000	-5.7150	19.083	0.0	0.0
	21.00000	29.00000	19.50000	-5.6335	19.083	0.0	0.0
	22.00000	29.00000	19.50000	-5.5413	19.083	0.0	0.0
	23.00000	29.00000	19.50000	-5.4382	19.083	0.0	0.0
	24.00000	29.00000	19.50000	-5.3231	19.083	0.0	0.0
	25.00000	29.00000	19.50000	-5.1940	19.083	0.0	0.0
	26.00000	29.00000	19.50000	-5.0482	19.083	0.0	0.0
	27.00000	29.00000	19.50000	-4.8822	19.083	0.0	0.0
	28.00000	29.00000	19.50000	-4.6922	19.083	0.0	0.0
	29.00000	29.00000	19.50000	-4.4736	19.083	0.0	0.0
	30.00000	29.00000	19.50000	-4.2218	19.083	0.0	0.0
	31.00000	29.00000	19.50000	-3.9326	19.083	0.0	0.0
	32.00000	29.00000	19.50000	-3.6043	19.083	0.0	0.0
	33.00000	29.00000	19.50000	-3.22477	19.083	0.0	0.0
	34.00000	29.00000	19.50000	-2.8555	19.083	0.0	0.0
	35.00000	29.00000	19.50000	-2.4714	19.083	0.0	0.0
	36.00000	29.00000	19.50000	-2.1113	19.083	0.0	0.0
	37.00000	29.00000	19.50000	-1.7889	19.083	0.0	0.0
	38.00000	29.00000	19.50000	-1.5079	19.083	0.0	0.0
	39.00000	29.00000	19.50000	-1.2667	19.083	0.0	0.0
	40.00000	29.00000	19.50000	-1.0613	19.083	0.0	0.0
	41.00000	29.00000	19.50000	-0.88687	19.083	0.0	0.0
	42.00000	29.00000	19.50000	-0.73914	19.083	0.0	0.0
	43.00000	29.00000	19.50000	-0.61406	19.083	0.0	0.0
	44.00000	29.00000	19.50000	-0.50818	19.083	0.0	0.0
	45.00000	29.00000	19.50000	-0.41856	19.083	0.0	0.0
	46.00000	29.00000	19.50000	-0.34268	19.083	0.0	0.0
	47.00000	29.00000	19.50000	-0.27844	19.083	0.0	0.0
	48.00000	29.00000	19.50000	-0.22406	19.083	0.0	0.0
	49.00000	29.00000	19.50000	-0.17805	19.083	0.0	0.0
	50.00000	29.00000	19.50000	-0.13912	19.083	0.0	0.0
	51.00000	29.00000	19.50000	-0.10622	19.083	0.0	0.0
	52.00000	29.00000	19.50000	-0.078447	19.083	0.0	0.0
	53.00000	29.00000	19.50000	-0.05025	19.083	0.0	0.0
	54.00000	29.00000	19.50000	-0.035309	19.083	0.0	0.0
	55.00000	29.00000	19.50000	-0.018748	19.083	0.0	0.0
	-25.00000	30.00000	19.50000	0.0066637	19.083	0.0	0.0
	-24.00000	30.00000	19.50000	-0.0033151	19.083	0.0	0.0
	-23.00000	30.00000	19.50000	-0.015148	19.083	0.0	0.0
	-22.00000	30.00000	19.50000	-0.029135	19.083	0.0	0.0
	-21.00000	30.00000	19.50000	-0.045624	19.083	0.0	0.0
	-20.00000	30.00000	19.50000	-0.065019	19.083	0.0	0.0
	-19.00000	30.00000	19.50000	-0.087791	19.083	0.0	0.0
	-18.00000	30.00000	19.50000	-0.11449	19.083	0.0	0.0
	-17.00000	30.00000	19.50000	-0.14574	19.083	0.0	0.0
	-16.00000	30.00000	19.50000	-0.18228	19.083	0.0	0.0
	-15.00000	30.00000	19.50000	-0.22498	19.083	0.0	0.0
	-14.00000	30.00000	19.50000	-0.27483	19.083	0.0	0.0
	-13.00000	30.00000	19.50000	-0.32299	19.083	0.0	0.0
	-12.00000	30.00000	19.50000	-0.40079	19.083	0.0	0.0
	-11.00000	30.00000	19.50000	-0.47979	19.083	0.0	0.0
	-10.00000	30.00000	19.50000	-0.57175	19.083	0.0	0.0
	-9.00000	30.00000	19.50000	-0.67873	19.083	0.0	0.0
	-8.00000	30.00000	19.50000	-0.80299	19.083	0.0	0.0
	-7.00000	30.00000	19.50000	-0.94705	19.083	0.0	0.0
	-6.00000	30.00000	19.50000	-1.1136	19.083	0.0	0.0
	-5.00000	30.00000	19.50000	-1.3053	19.083	0.0	0.0
	-4.00000	30.00000	19.50000	-1.5242	19.083	0.0	0.0
	-3.00000	30.00000	19.50000	-1.7717	19.083	0.0	0.0
	-2.00000	30.00000	19.50000	-2.0463	19.083	0.0	0.0
	-1.00000	30.00000	19.50000	-2.3432	19.083	0.0	0.0
	0.00000	30.00000	19.50000	-2.6526	19.083	0.0	0.0
	1.00000	30.00000	19.50000	-2.9609	19.083	0.0	0.0
	2.00000	30.00000	19.50000	-3.2549	19.083	0.0	0.0
	3.00000	30.00000	19.50000	-3.5247	19.083	0.0	0.0
	4.00000	30.00000	19.50000	-3.7651	19.083	0.0	0.0
	5.00000	30.00000	19.50000	-3.9750	19.083	0.0	0.0
	6.00000	30.00000	19.50000	-4.1551	19.083	0.0	0.0
	7.00000	30.00000	19.50000	-4.3076	19.083	0.0	0.0
	8.00000	30.00000	19.50000	-4.4349	19.083	0.0	0.0
	9.00000	30.00000	19.50000	-4.5393	19.083	0.0	0.0
	10.00000	30.00000	19.50000	-4.6230	19.083	0.0	0.0
	11.00000	30.00000	19.50000	-4.6880	19.083	0.0	0.0
	12.00000	30.00000	19.50000	-4.7359	19.083	0.0	0.0
	13.00000	30.00000	19.50000	-4.7680	19.083	0.0	0.0
	14.00000	30.00000	19.50000	-4.7854	19.083	0.0	0.0
	15.00000	30.00000	19.50000	-4.7888	19.083	0.0	0.0
	16.00000	30.00000	19.50000	-4.7791	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	17.00000	30.00000	19.50000	-4.7566	19.083	0.0	0.0
	18.00000	30.00000	19.50000	-4.7218	19.083	0.0	0.0
	19.00000	30.00000	19.50000	-4.6753	19.083	0.0	0.0
	20.00000	30.00000	19.50000	-4.6177	19.083	0.0	0.0
	21.00000	30.00000	19.50000	-4.5497	19.083	0.0	0.0
	22.00000	30.00000	19.50000	-4.4717	19.083	0.0	0.0
	23.00000	30.00000	19.50000	-4.3835	19.083	0.0	0.0
	24.00000	30.00000	19.50000	-4.2844	19.083	0.0	0.0
	25.00000	30.00000	19.50000	-4.1731	19.083	0.0	0.0
	26.00000	30.00000	19.50000	-4.0478	19.083	0.0	0.0
	27.00000	30.00000	19.50000	-3.9062	19.083	0.0	0.0
	28.00000	30.00000	19.50000	-3.7460	19.083	0.0	0.0
	29.00000	30.00000	19.50000	-3.5644	19.083	0.0	0.0
	30.00000	30.00000	19.50000	-3.3593	19.083	0.0	0.0
	31.00000	30.00000	19.50000	-3.1293	19.083	0.0	0.0
	32.00000	30.00000	19.50000	-2.8753	19.083	0.0	0.0
	33.00000	30.00000	19.50000	-2.6015	19.083	0.0	0.0
	34.00000	30.00000	19.50000	-2.3167	19.083	0.0	0.0
	35.00000	30.00000	19.50000	-2.0328	19.083	0.0	0.0
	36.00000	30.00000	19.50000	-1.7621	19.083	0.0	0.0
	37.00000	30.00000	19.50000	-1.5132	19.083	0.0	0.0
	38.00000	30.00000	19.50000	-1.2904	19.083	0.0	0.0
	39.00000	30.00000	19.50000	-1.0945	19.083	0.0	0.0
	40.00000	30.00000	19.50000	-0.92422	19.083	0.0	0.0
	41.00000	30.00000	19.50000	-0.77729	19.083	0.0	0.0
	42.00000	30.00000	19.50000	-0.65109	19.083	0.0	0.0
	43.00000	30.00000	19.50000	-0.54301	19.083	0.0	0.0
	44.00000	30.00000	19.50000	-0.45064	19.083	0.0	0.0
	45.00000	30.00000	19.50000	-0.37181	19.083	0.0	0.0
	46.00000	30.00000	19.50000	-0.30460	19.083	0.0	0.0
	47.00000	30.00000	19.50000	-0.24736	19.083	0.0	0.0
	48.00000	30.00000	19.50000	-0.19866	19.083	0.0	0.0
	49.00000	30.00000	19.50000	-0.15725	19.083	0.0	0.0
	50.00000	30.00000	19.50000	-0.12209	19.083	0.0	0.0
	51.00000	30.00000	19.50000	-0.092271	19.083	0.0	0.0
	52.00000	30.00000	19.50000	-0.067018	19.083	0.0	0.0
	53.00000	30.00000	19.50000	-0.045669	19.083	0.0	0.0
	54.00000	30.00000	19.50000	-0.027659	19.083	0.0	0.0
	55.00000	30.00000	19.50000	-0.012503	19.083	0.0	0.0
	-25.00000	31.00000	19.50000	0.010417	19.083	0.0	0.0
	-24.00000	31.00000	19.50000	0.0012538	19.083	0.0	0.0
	-23.00000	31.00000	19.50000	-0.0096022	19.083	0.0	0.0
	-22.00000	31.00000	19.50000	-0.022419	19.083	0.0	0.0
	-21.00000	31.00000	19.50000	-0.037505	19.083	0.0	0.0
	-20.00000	31.00000	19.50000	-0.055218	19.083	0.0	0.0
	-19.00000	31.00000	19.50000	-0.075968	19.083	0.0	0.0
	-18.00000	31.00000	19.50000	-0.10023	19.083	0.0	0.0
	-17.00000	31.00000	19.50000	-0.12855	19.083	0.0	0.0
	-16.00000	31.00000	19.50000	-0.16156	19.083	0.0	0.0
	-15.00000	31.00000	19.50000	-0.19939	19.083	0.0	0.0
	-14.00000	31.00000	19.50000	-0.24466	19.083	0.0	0.0
	-13.00000	31.00000	19.50000	-0.29652	19.083	0.0	0.0
	-12.00000	31.00000	19.50000	-0.35666	19.083	0.0	0.0
	-11.00000	31.00000	19.50000	-0.42629	19.083	0.0	0.0
	-10.00000	31.00000	19.50000	-0.50678	19.083	0.0	0.0
	-9.00000	31.00000	19.50000	-0.59964	19.083	0.0	0.0
	-8.00000	31.00000	19.50000	-0.70649	19.083	0.0	0.0
	-7.00000	31.00000	19.50000	-0.82901	19.083	0.0	0.0
	-6.00000	31.00000	19.50000	-0.96885	19.083	0.0	0.0
	-5.00000	31.00000	19.50000	-1.1274	19.083	0.0	0.0
	-4.00000	31.00000	19.50000	-1.3055	19.083	0.0	0.0
	-3.00000	31.00000	19.50000	-1.5030	19.083	0.0	0.0
	-2.00000	31.00000	19.50000	-1.7180	19.083	0.0	0.0
	-1.00000	31.00000	19.50000	-1.9466	19.083	0.0	0.0
	0.00000	31.00000	19.50000	-2.1822	19.083	0.0	0.0
	1.00000	31.00000	19.50000	-2.4169	19.083	0.0	0.0
	2.00000	31.00000	19.50000	-2.6428	19.083	0.0	0.0
	3.00000	31.00000	19.50000	-2.8533	19.083	0.0	0.0
	4.00000	31.00000	19.50000	-3.0445	19.083	0.0	0.0
	5.00000	31.00000	19.50000	-3.2142	19.083	0.0	0.0
	6.00000	31.00000	19.50000	-3.3623	19.083	0.0	0.0
	7.00000	31.00000	19.50000	-3.4894	19.083	0.0	0.0
	8.00000	31.00000	19.50000	-3.5967	19.083	0.0	0.0
	9.00000	31.00000	19.50000	-3.6856	19.083	0.0	0.0
	10.00000	31.00000	19.50000	-3.7575	19.083	0.0	0.0
	11.00000	31.00000	19.50000	-3.8138	19.083	0.0	0.0
	12.00000	31.00000	19.50000	-3.8556	19.083	0.0	0.0
	13.00000	31.00000	19.50000	-3.8839	19.083	0.0	0.0
	14.00000	31.00000	19.50000	-3.8996	19.083	0.0	0.0
	15.00000	31.00000	19.50000	-3.9034	19.083	0.0	0.0
	16.00000	31.00000	19.50000	-3.8959	19.083	0.0	0.0
	17.00000	31.00000	19.50000	-3.8776	19.083	0.0	0.0
	18.00000	31.00000	19.50000	-3.8488	19.083	0.0	0.0
	19.00000	31.00000	19.50000	-3.8101	19.083	0.0	0.0
	20.00000	31.00000	19.50000	-3.7619	19.083	0.0	0.0
	21.00000	31.00000	19.50000	-3.7046	19.083	0.0	0.0
	22.00000	31.00000	19.50000	-3.6384	19.083	0.0	0.0
	23.00000	31.00000	19.50000	-3.5630	19.083	0.0	0.0
	24.00000	31.00000	19.50000	-3.4781	19.083	0.0	0.0
	25.00000	31.00000	19.50000	-3.3827	19.083	0.0	0.0
	26.00000	31.00000	19.50000	-3.2758	19.083	0.0	0.0
	27.00000	31.00000	19.50000	-3.1558	19.083	0.0	0.0
	28.00000	31.00000	19.50000	-3.0214	19.083	0.0	0.0
	29.00000	31.00000	19.50000	-2.8713	19.083	0.0	0.0
	30.00000	31.00000	19.50000	-2.7044	19.083	0.0	0.0
	31.00000	31.00000	19.50000	-2.5208	19.083	0.0	0.0
	32.00000	31.00000	19.50000	-2.3220	19.083	0.0	0.0
	33.00000	31.00000	19.50000	-2.1113	19.083	0.0	0.0
	34.00000	31.00000	19.50000	-1.8945	19.083	0.0	0.0
	35.00000	31.00000	19.50000	-1.6785	19.083	0.0	0.0
	36.00000	31.00000	19.50000	-1.4585	19.083	0.0	0.0
	37.00000	31.00000	19.50000	-1.2760	19.083	0.0	0.0
	38.00000	31.00000	19.50000	-1.0986	19.083	0.0	0.0
	39.00000	31.00000	19.50000	-0.93967	19.083	0.0	0.0
	40.00000	31.00000	19.50000	-0.79913	19.083	0.0	0.0
	41.00000	31.00000	19.50000	-0.67603	19.083	0.0	0.0
	42.00000	31.00000	19.50000	-0.56892	19.083	0.0	0.0
	43.00000	31.00000	19.50000	-0.47618	19.083	0.0	0.0
	44.00000	31.00000	19.50000	-0.39616	19.083	0.0	0.0
	45.00000	31.00000	19.50000	-0.32730	19.083	0.0	0.0
	46.00000	31.00000	19.50000	-0.26818	19.083	0.0	0.0
	47.00000	31.00000	19.50000	-0.21751	19.083	0.0	0.0
	48.00000	31.00000	19.50000	-0.17417	19.083	0.0	0.0
	49.00000	31.00000	19.50000	-0.13715	19.083	0.0	0.0
	50.00000	31.00000	19.50000	-0.10559	19.083	0.0	0.0
	51.00000	31.00000	19.50000	-0.078720	19.083	0.0	0.0
	52.00000	31.00000	19.50000	-0.055897	19.083	0.0	0.0
	53.00000	31.00000	19.50000	-0.036551	19.083	0.0	0.0
	54.00000	31.00000	19.50000	-0.020194	19.083	0.0	0.0
	55.00000	31.00000	19.50000	-0.0064044	19.083	0.0	0.0
	-25.00000	32.00000	19.50000	0.014075	19.083	0.0	0.0
	-24.00000	32.00000	19.50000	0.0057064	19.083	0.0	0.0
	-23.00000	32.00000	19.50000	-0.0042007	19.083	0.0	0.0
	-22.00000	32.00000	19.50000	-0.015884	19.083	0.0	0.0
	-21.00000	32.00000	19.50000	-0.029614	19.083	0.0	0.0
	-20.00000	32.00000	19.50000	-0.045704	19.083	0.0	0.0
	-19.00000	32.00000	19.50000	-0.064511	19.083	0.0	0.0
	-18.00000	32.00000	19.50000	-0.086445	19.083	0.0	0.0
	-17.00000	32.00000	19.50000	-0.11197	19.083	0.0	0.0
	-16.00000	32.00000	19.50000	-0.14162	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-15.00000	32.00000	19.50000	-0.17601	19.083	0.0	0.0
	-14.00000	32.00000	19.50000	-0.21581	19.083	0.0	0.0
	-13.00000	32.00000	19.50000	-0.26179	19.083	0.0	0.0
	-12.00000	32.00000	19.50000	-0.31481	19.083	0.0	0.0
	-11.00000	32.00000	19.50000	-0.37582	19.083	0.0	0.0
	-10.00000	32.00000	19.50000	-0.44585	19.083	0.0	0.0
	-9.00000	32.00000	19.50000	-0.52599	19.083	0.0	0.0
	-8.00000	32.00000	19.50000	-0.61737	19.083	0.0	0.0
	-7.00000	32.00000	19.50000	-0.72108	19.083	0.0	0.0
	-6.00000	32.00000	19.50000	-0.83807	19.083	0.0	0.0
	-5.00000	32.00000	19.50000	-0.96900	19.083	0.0	0.0
	-4.00000	32.00000	19.50000	-1.1140	19.083	0.0	0.0
	-3.00000	32.00000	19.50000	-1.2724	19.083	0.0	0.0
	-2.00000	32.00000	19.50000	-1.4425	19.083	0.0	0.0
	-1.00000	32.00000	19.50000	-1.6211	19.083	0.0	0.0
	0.00000	32.00000	19.50000	-1.8041	19.083	0.0	0.0
	1.00000	32.00000	19.50000	-1.9862	19.083	0.0	0.0
	2.00000	32.00000	19.50000	-2.1624	19.083	0.0	0.0
	3.00000	32.00000	19.50000	-2.3284	19.083	0.0	0.0
	4.00000	32.00000	19.50000	-2.4811	19.083	0.0	0.0
	5.00000	32.00000	19.50000	-2.6185	19.083	0.0	0.0
	6.00000	32.00000	19.50000	-2.7399	19.083	0.0	0.0
	7.00000	32.00000	19.50000	-2.8454	19.083	0.0	0.0
	8.00000	32.00000	19.50000	-2.9354	19.083	0.0	0.0
	9.00000	32.00000	19.50000	-3.0106	19.083	0.0	0.0
	10.00000	32.00000	19.50000	-3.0719	19.083	0.0	0.0
	11.00000	32.00000	19.50000	-3.1203	19.083	0.0	0.0
	12.00000	32.00000	19.50000	-3.1565	19.083	0.0	0.0
	13.00000	32.00000	19.50000	-3.1814	19.083	0.0	0.0
	14.00000	32.00000	19.50000	-3.1955	19.083	0.0	0.0
	15.00000	32.00000	19.50000	-3.1994	19.083	0.0	0.0
	16.00000	32.00000	19.50000	-3.1936	19.083	0.0	0.0
	17.00000	32.00000	19.50000	-3.1786	19.083	0.0	0.0
	18.00000	32.00000	19.50000	-3.1547	19.083	0.0	0.0
	19.00000	32.00000	19.50000	-3.1223	19.083	0.0	0.0
	20.00000	32.00000	19.50000	-3.0818	19.083	0.0	0.0
	21.00000	32.00000	19.50000	-3.0333	19.083	0.0	0.0
	22.00000	32.00000	19.50000	-2.9770	19.083	0.0	0.0
	23.00000	32.00000	19.50000	-2.9127	19.083	0.0	0.0
	24.00000	32.00000	19.50000	-2.8402	19.083	0.0	0.0
	25.00000	32.00000	19.50000	-2.7589	19.083	0.0	0.0
	26.00000	32.00000	19.50000	-2.6681	19.083	0.0	0.0
	27.00000	32.00000	19.50000	-2.5670	19.083	0.0	0.0
	28.00000	32.00000	19.50000	-2.4547	19.083	0.0	0.0
	29.00000	32.00000	19.50000	-2.3308	19.083	0.0	0.0
	30.00000	32.00000	19.50000	-2.1949	19.083	0.0	0.0
	31.00000	32.00000	19.50000	-2.0476	19.083	0.0	0.0
	32.00000	32.00000	19.50000	-1.8903	19.083	0.0	0.0
	33.00000	32.00000	19.50000	-1.7255	19.083	0.0	0.0
	34.00000	32.00000	19.50000	-1.5572	19.083	0.0	0.0
	35.00000	32.00000	19.50000	-1.3895	19.083	0.0	0.0
	36.00000	32.00000	19.50000	-1.2271	19.083	0.0	0.0
	37.00000	32.00000	19.50000	-1.0735	19.083	0.0	0.0
	38.00000	32.00000	19.50000	-0.93148	19.083	0.0	0.0
	39.00000	32.00000	19.50000	-0.80234	19.083	0.0	0.0
	40.00000	32.00000	19.50000	-0.68654	19.083	0.0	0.0
	41.00000	32.00000	19.50000	-0.58377	19.083	0.0	0.0
	42.00000	32.00000	19.50000	-0.49330	19.083	0.0	0.0
	43.00000	32.00000	19.50000	-0.41414	19.083	0.0	0.0
	44.00000	32.00000	19.50000	-0.34522	19.083	0.0	0.0
	45.00000	32.00000	19.50000	-0.28543	19.083	0.0	0.0
	46.00000	32.00000	19.50000	-0.23374	19.083	0.0	0.0
	47.00000	32.00000	19.50000	-0.18917	19.083	0.0	0.0
	48.00000	32.00000	19.50000	-0.15083	19.083	0.0	0.0
	49.00000	32.00000	19.50000	-0.11793	19.083	0.0	0.0
	50.00000	32.00000	19.50000	-0.089755	19.083	0.0	0.0
	51.00000	32.00000	19.50000	-0.065689	19.083	0.0	0.0
	52.00000	32.00000	19.50000	-0.045181	19.083	0.0	0.0
	53.00000	32.00000	19.50000	-0.027750	19.083	0.0	0.0
	54.00000	32.00000	19.50000	-0.012979	19.083	0.0	0.0
	55.00000	32.00000	19.50000	-503.54856	19.083	0.0	0.0
	-25.00000	33.00000	19.50000	0.017611	19.083	0.0	0.0
	-24.00000	33.00000	19.50000	0.010010	19.083	0.0	0.0
	-23.00000	33.00000	19.50000	0.0010168	19.083	0.0	0.0
	-22.00000	33.00000	19.50000	-0.0095764	19.083	0.0	0.0
	-21.00000	33.00000	19.50000	-0.022208	19.083	0.0	0.0
	-20.00000	33.00000	19.50000	-0.036548	19.083	0.0	0.0
	-19.00000	33.00000	19.50000	-0.053506	19.083	0.0	0.0
	-18.00000	33.00000	19.50000	-0.073230	19.083	0.0	0.0
	-17.00000	33.00000	19.50000	-0.096118	19.083	0.0	0.0
	-16.00000	33.00000	19.50000	-0.12261	19.083	0.0	0.0
	-15.00000	33.00000	19.50000	-0.15322	19.083	0.0	0.0
	-14.00000	33.00000	19.50000	-0.18848	19.083	0.0	0.0
	-13.00000	33.00000	19.50000	-0.22903	19.083	0.0	0.0
	-12.00000	33.00000	19.50000	-0.27553	19.083	0.0	0.0
	-11.00000	33.00000	19.50000	-0.32871	19.083	0.0	0.0
	-10.00000	33.00000	19.50000	-0.38933	19.083	0.0	0.0
	-9.00000	33.00000	19.50000	-0.45818	19.083	0.0	0.0
	-8.00000	33.00000	19.50000	-0.53600	19.083	0.0	0.0
	-7.00000	33.00000	19.50000	-0.62348	19.083	0.0	0.0
	-6.00000	33.00000	19.50000	-0.72114	19.083	0.0	0.0
	-5.00000	33.00000	19.50000	-0.82921	19.083	0.0	0.0
	-4.00000	33.00000	19.50000	-0.94749	19.083	0.0	0.0
	-3.00000	33.00000	19.50000	-1.0752	19.083	0.0	0.0
	-2.00000	33.00000	19.50000	-1.2109	19.083	0.0	0.0
	-1.00000	33.00000	19.50000	-1.3522	19.083	0.0	0.0
	0.00000	33.00000	19.50000	-1.4962	19.083	0.0	0.0
	1.00000	33.00000	19.50000	-1.6394	19.083	0.0	0.0
	2.00000	33.00000	19.50000	-1.7786	19.083	0.0	0.0
	3.00000	33.00000	19.50000	-1.9106	19.083	0.0	0.0
	4.00000	33.00000	19.50000	-2.0331	19.083	0.0	0.0
	5.00000	33.00000	19.50000	-2.1445	19.083	0.0	0.0
	6.00000	33.00000	19.50000	-2.2440	19.083	0.0	0.0
	7.00000	33.00000	19.50000	-2.3313	19.083	0.0	0.0
	8.00000	33.00000	19.50000	-2.4064	19.083	0.0	0.0
	9.00000	33.00000	19.50000	-2.4698	19.083	0.0	0.0
	10.00000	33.00000	19.50000	-2.5219	19.083	0.0	0.0
	11.00000	33.00000	19.50000	-2.5632	19.083	0.0	0.0
	12.00000	33.00000	19.50000	-2.5944	19.083	0.0	0.0
	13.00000	33.00000	19.50000	-2.6160	19.083	0.0	0.0
	14.00000	33.00000	19.50000	-2.6285	19.083	0.0	0.0
	15.00000	33.00000	19.50000	-2.6323	19.083	0.0	0.0
	16.00000	33.00000	19.50000	-2.6279	19.083	0.0	0.0
	17.00000	33.00000	19.50000	-2.6156	19.083	0.0	0.0
	18.00000	33.00000	19.50000	-2.5957	19.083	0.0	0.0
	19.00000	33.00000	19.50000	-2.5685	19.083	0.0	0.0
	20.00000	33.00000	19.50000	-2.5343	19.083	0.0	0.0
	21.00000	33.00000	19.50000	-2.4932	19.083	0.0	0.0
	22.00000	33.00000	19.50000	-2.4454	19.083	0.0	0.0
	23.00000	33.00000	19.50000	-2.3907	19.083	0.0	0.0
	24.00000	33.00000	19.50000	-2.3290	19.083	0.0	0.0
	25.00000	33.00000	19.50000	-2.2600	19.083	0.0	0.0
	26.00000	33.00000	19.50000	-2.1832	19.083	0.0	0.0
	27.00000	33.00000	19.50000	-2.0982	19.083	0.0	0.0
	28.00000	33.00000	19.50000	-2.0047	19.083	0.0	0.0
	29.00000	33.00000	19.50000	-1.9025	19.083	0.0	0.0
	30.00000	33.00000	19.50000	-1.7916	19.083	0.0	0.0
	31.00000	33.00000	19.50000	-1.6727	19.083	0.0	0.0
	32.00000	33.00000	19.50000	-1.5471	19.083	0.0	0.0
	33.00000	33.00000	19.50000	-1.4167	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [MOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	34.00000	33.00000	19.50000	-1.2841	19.083	0.0	0.0
	35.00000	33.00000	19.50000	-1.1521	19.083	0.0	0.0
	36.00000	33.00000	19.50000	-1.0236	19.083	0.0	0.0
	37.00000	33.00000	19.50000	-0.90122	19.083	0.0	0.0
	38.00000	33.00000	19.50000	-0.78685	19.083	0.0	0.0
	39.00000	33.00000	19.50000	-0.68168	19.083	0.0	0.0
	40.00000	33.00000	19.50000	-0.58627	19.083	0.0	0.0
	41.00000	33.00000	19.50000	-0.50064	19.083	0.0	0.0
	42.00000	33.00000	19.50000	-0.42447	19.083	0.0	0.0
	43.00000	33.00000	19.50000	-0.35720	19.083	0.0	0.0
	44.00000	33.00000	19.50000	-0.29811	19.083	0.0	0.0
	45.00000	33.00000	19.50000	-0.24647	19.083	0.0	0.0
	46.00000	33.00000	19.50000	-0.20152	19.083	0.0	0.0
	47.00000	33.00000	19.50000	-0.16252	19.083	0.0	0.0
	48.00000	33.00000	19.50000	-0.12879	19.083	0.0	0.0
	49.00000	33.00000	19.50000	-0.099714	19.083	0.0	0.0
	50.00000	33.00000	19.50000	-0.074711	19.083	0.0	0.0
	51.00000	33.00000	19.50000	-0.053274	19.083	0.0	0.0
	52.00000	33.00000	19.50000	-0.034948	19.083	0.0	0.0
	53.00000	33.00000	19.50000	-0.019331	19.083	0.0	0.0
	54.00000	33.00000	19.50000	-0.0060670	19.083	0.0	0.0
	55.00000	33.00000	19.50000	0.0051550	19.083	0.0	0.0
	-25.00000	34.00000	19.50000	0.021002	19.083	0.0	0.0
	-24.00000	34.00000	19.50000	0.014136	19.083	0.0	0.0
	-23.00000	34.00000	19.50000	0.0060163	19.083	0.0	0.0
	-22.00000	34.00000	19.50000	-0.0035381	19.083	0.0	0.0
	-21.00000	34.00000	19.50000	-0.014735	19.083	0.0	0.0
	-20.00000	34.00000	19.50000	-0.027807	19.083	0.0	0.0
	-19.00000	34.00000	19.50000	-0.043019	19.083	0.0	0.0
	-18.00000	34.00000	19.50000	-0.060667	19.083	0.0	0.0
	-17.00000	34.00000	19.50000	-0.081084	19.083	0.0	0.0
	-16.00000	34.00000	19.50000	-0.10464	19.083	0.0	0.0
	-15.00000	34.00000	19.50000	-0.13174	19.083	0.0	0.0
	-14.00000	34.00000	19.50000	-0.16284	19.083	0.0	0.0
	-13.00000	34.00000	19.50000	-0.19842	19.083	0.0	0.0
	-12.00000	34.00000	19.50000	-0.23901	19.083	0.0	0.0
	-11.00000	34.00000	19.50000	-0.28515	19.083	0.0	0.0
	-10.00000	34.00000	19.50000	-0.33740	19.083	0.0	0.0
	-9.00000	34.00000	19.50000	-0.39630	19.083	0.0	0.0
	-8.00000	34.00000	19.50000	-0.46237	19.083	0.0	0.0
	-7.00000	34.00000	19.50000	-0.53599	19.083	0.0	0.0
	-6.00000	34.00000	19.50000	-0.61741	19.083	0.0	0.0
	-5.00000	34.00000	19.50000	-0.70665	19.083	0.0	0.0
	-4.00000	34.00000	19.50000	-0.80338	19.083	0.0	0.0
	-3.00000	34.00000	19.50000	-0.90685	19.083	0.0	0.0
	-2.00000	34.00000	19.50000	-1.0158	19.083	0.0	0.0
	-1.00000	34.00000	19.50000	-1.1287	19.083	0.0	0.0
	0.00000	34.00000	19.50000	-1.2432	19.083	0.0	0.0
	1.00000	34.00000	19.50000	-1.3570	19.083	0.0	0.0
	2.00000	34.00000	19.50000	-1.4679	19.083	0.0	0.0
	3.00000	34.00000	19.50000	-1.5735	19.083	0.0	0.0
	4.00000	34.00000	19.50000	-1.6723	19.083	0.0	0.0
	5.00000	34.00000	19.50000	-1.7629	19.083	0.0	0.0
	6.00000	34.00000	19.50000	-1.8444	19.083	0.0	0.0
	7.00000	34.00000	19.50000	-1.9166	19.083	0.0	0.0
	8.00000	34.00000	19.50000	-1.9791	19.083	0.0	0.0
	9.00000	34.00000	19.50000	-2.0323	19.083	0.0	0.0
	10.00000	34.00000	19.50000	-2.0763	19.083	0.0	0.0
	11.00000	34.00000	19.50000	-2.1115	19.083	0.0	0.0
	12.00000	34.00000	19.50000	-2.1382	19.083	0.0	0.0
	13.00000	34.00000	19.50000	-2.1568	19.083	0.0	0.0
	14.00000	34.00000	19.50000	-2.1678	19.083	0.0	0.0
	15.00000	34.00000	19.50000	-2.1714	19.083	0.0	0.0
	16.00000	34.00000	19.50000	-2.1680	19.083	0.0	0.0
	17.00000	34.00000	19.50000	-2.1579	19.083	0.0	0.0
	18.00000	34.00000	19.50000	-2.1412	19.083	0.0	0.0
	19.00000	34.00000	19.50000	-2.1184	19.083	0.0	0.0
	20.00000	34.00000	19.50000	-2.0895	19.083	0.0	0.0
	21.00000	34.00000	19.50000	-2.0548	19.083	0.0	0.0
	22.00000	34.00000	19.50000	-2.0142	19.083	0.0	0.0
	23.00000	34.00000	19.50000	-1.9678	19.083	0.0	0.0
	24.00000	34.00000	19.50000	-1.9154	19.083	0.0	0.0
	25.00000	34.00000	19.50000	-1.8570	19.083	0.0	0.0
	26.00000	34.00000	19.50000	-1.7922	19.083	0.0	0.0
	27.00000	34.00000	19.50000	-1.7210	19.083	0.0	0.0
	28.00000	34.00000	19.50000	-1.6432	19.083	0.0	0.0
	29.00000	34.00000	19.50000	-1.5588	19.083	0.0	0.0
	30.00000	34.00000	19.50000	-1.4681	19.083	0.0	0.0
	31.00000	34.00000	19.50000	-1.3718	19.083	0.0	0.0
	32.00000	34.00000	19.50000	-1.2707	19.083	0.0	0.0
	33.00000	34.00000	19.50000	-1.1665	19.083	0.0	0.0
	34.00000	34.00000	19.50000	-1.0608	19.083	0.0	0.0
	35.00000	34.00000	19.50000	-0.95570	19.083	0.0	0.0
	36.00000	34.00000	19.50000	-0.85312	19.083	0.0	0.0
	37.00000	34.00000	19.50000	-0.75484	19.083	0.0	0.0
	38.00000	34.00000	19.50000	-0.66226	19.083	0.0	0.0
	39.00000	34.00000	19.50000	-0.57636	19.083	0.0	0.0
	40.00000	34.00000	19.50000	-0.49769	19.083	0.0	0.0
	41.00000	34.00000	19.50000	-0.42641	19.083	0.0	0.0
	42.00000	34.00000	19.50000	-0.36243	19.083	0.0	0.0
	43.00000	34.00000	19.50000	-0.30543	19.083	0.0	0.0
	44.00000	34.00000	19.50000	-0.25498	19.083	0.0	0.0
	45.00000	34.00000	19.50000	-0.21057	19.083	0.0	0.0
	46.00000	34.00000	19.50000	-0.17166	19.083	0.0	0.0
	47.00000	34.00000	19.50000	-0.13770	19.083	0.0	0.0
	48.00000	34.00000	19.50000	-0.10819	19.083	0.0	0.0
	49.00000	34.00000	19.50000	-0.082617	19.083	0.0	0.0
	50.00000	34.00000	19.50000	-0.060543	19.083	0.0	0.0
	51.00000	34.00000	19.50000	-0.041550	19.083	0.0	0.0
	52.00000	34.00000	19.50000	-0.025263	19.083	0.0	0.0
	53.00000	34.00000	19.50000	-0.011347	19.083	0.0	0.0
	54.00000	34.00000	19.50000	497.02E-6	19.083	0.0	0.0
	55.00000	34.00000	19.50000	0.010534	19.083	0.0	0.0
	-25.00000	35.00000	19.50000	0.024227	19.083	0.0	0.0
	-24.00000	35.00000	19.50000	0.018060	19.083	0.0	0.0
	-23.00000	35.00000	19.50000	0.010770	19.083	0.0	0.0
	-22.00000	35.00000	19.50000	0.0021978	19.083	0.0	0.0
	-21.00000	35.00000	19.50000	-0.0078340	19.083	0.0	0.0
	-20.00000	35.00000	19.50000	-0.019527	19.083	0.0	0.0
	-19.00000	35.00000	19.50000	-0.033104	19.083	0.0	0.0
	-18.00000	35.00000	19.50000	-0.048816	19.083	0.0	0.0
	-17.00000	35.00000	19.50000	-0.066940	19.083	0.0	0.0
	-16.00000	35.00000	19.50000	-0.087779	19.083	0.0	0.0
	-15.00000	35.00000	19.50000	-0.11167	19.083	0.0	0.0
	-14.00000	35.00000	19.50000	-0.13896	19.083	0.0	0.0
	-13.00000	35.00000	19.50000	-0.17005	19.083	0.0	0.0
	-12.00000	35.00000	19.50000	-0.20532	19.083	0.0	0.0
	-11.00000	35.00000	19.50000	-0.24519	19.083	0.0	0.0
	-10.00000	35.00000	19.50000	-0.29006	19.083	0.0	0.0
	-9.00000	35.00000	19.50000	-0.34031	19.083	0.0	0.0
	-8.00000	35.00000	19.50000	-0.39625	19.083	0.0	0.0
	-7.00000	35.00000	19.50000	-0.45810	19.083	0.0	0.0
	-6.00000	35.00000	19.50000	-0.52596	19.083	0.0	0.0
	-5.00000	35.00000	19.50000	-0.59971	19.083	0.0	0.0
	-4.00000	35.00000	19.50000	-0.67900	19.083	0.0	0.0
	-3.00000	35.00000	19.50000	-0.76318	19.083	0.0	0.0
	-2.00000	35.00000	19.50000	-0.85127	19.083	0.0	0.0
	-1.00000	35.00000	19.50000	-0.94198	19.083	0.0	0.0
	0.00000	35.00000	19.50000	-1.0338	19.083	0.0	0.0
	1.00000	35.00000	19.50000	-1.1250	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	2.00000	35.00000	19.50000	-1.2139	19.083	0.0	0.0
	3.00000	35.00000	19.50000	-1.2991	19.083	0.0	0.0
	4.00000	35.00000	19.50000	-1.3790	19.083	0.0	0.0
	5.00000	35.00000	19.50000	-1.4528	19.083	0.0	0.0
	6.00000	35.00000	19.50000	-1.5197	19.083	0.0	0.0
	7.00000	35.00000	19.50000	-1.5792	19.083	0.0	0.0
	8.00000	35.00000	19.50000	-1.6313	19.083	0.0	0.0
	9.00000	35.00000	19.50000	-1.6757	19.083	0.0	0.0
	10.00000	35.00000	19.50000	-1.7128	19.083	0.0	0.0
	11.00000	35.00000	19.50000	-1.7425	19.083	0.0	0.0
	12.00000	35.00000	19.50000	-1.7653	19.083	0.0	0.0
	13.00000	35.00000	19.50000	-1.7813	19.083	0.0	0.0
	14.00000	35.00000	19.50000	-1.7909	19.083	0.0	0.0
	15.00000	35.00000	19.50000	-1.7942	19.083	0.0	0.0
	16.00000	35.00000	19.50000	-1.7915	19.083	0.0	0.0
	17.00000	35.00000	19.50000	-1.7832	19.083	0.0	0.0
	18.00000	35.00000	19.50000	-1.7693	19.083	0.0	0.0
	19.00000	35.00000	19.50000	-1.7501	19.083	0.0	0.0
	20.00000	35.00000	19.50000	-1.7257	19.083	0.0	0.0
	21.00000	35.00000	19.50000	-1.6963	19.083	0.0	0.0
	22.00000	35.00000	19.50000	-1.6619	19.083	0.0	0.0
	23.00000	35.00000	19.50000	-1.6226	19.083	0.0	0.0
	24.00000	35.00000	19.50000	-1.5782	19.083	0.0	0.0
	25.00000	35.00000	19.50000	-1.5289	19.083	0.0	0.0
	26.00000	35.00000	19.50000	-1.4745	19.083	0.0	0.0
	27.00000	35.00000	19.50000	-1.4149	19.083	0.0	0.0
	28.00000	35.00000	19.50000	-1.3501	19.083	0.0	0.0
	29.00000	35.00000	19.50000	-1.2804	19.083	0.0	0.0
	30.00000	35.00000	19.50000	-1.2060	19.083	0.0	0.0
	31.00000	35.00000	19.50000	-1.1276	19.083	0.0	0.0
	32.00000	35.00000	19.50000	-1.0458	19.083	0.0	0.0
	33.00000	35.00000	19.50000	-0.96184	19.083	0.0	0.0
	34.00000	35.00000	19.50000	-0.87695	19.083	0.0	0.0
	35.00000	35.00000	19.50000	-0.79252	19.083	0.0	0.0
	36.00000	35.00000	19.50000	-0.70996	19.083	0.0	0.0
	37.00000	35.00000	19.50000	-0.63051	19.083	0.0	0.0
	38.00000	35.00000	19.50000	-0.55523	19.083	0.0	0.0
	39.00000	35.00000	19.50000	-0.48487	19.083	0.0	0.0
	40.00000	35.00000	19.50000	-0.41992	19.083	0.0	0.0
	41.00000	35.00000	19.50000	-0.36061	19.083	0.0	0.0
	42.00000	35.00000	19.50000	-0.30694	19.083	0.0	0.0
	43.00000	35.00000	19.50000	-0.25876	19.083	0.0	0.0
	44.00000	35.00000	19.50000	-0.21582	19.083	0.0	0.0
	45.00000	35.00000	19.50000	-0.17776	19.083	0.0	0.0
	46.00000	35.00000	19.50000	-0.14422	19.083	0.0	0.0
	47.00000	35.00000	19.50000	-0.11479	19.083	0.0	0.0
	48.00000	35.00000	19.50000	-0.089075	19.083	0.0	0.0
	49.00000	35.00000	19.50000	-0.066703	19.083	0.0	0.0
	50.00000	35.00000	19.50000	-0.047313	19.083	0.0	0.0
	51.00000	35.00000	19.50000	-0.030571	19.083	0.0	0.0
	52.00000	35.00000	19.50000	-0.016172	19.083	0.0	0.0
	53.00000	35.00000	19.50000	-0.0038391	19.083	0.0	0.0
	54.00000	35.00000	19.50000	0.0066783	19.083	0.0	0.0
	55.00000	35.00000	19.50000	0.015604	19.083	0.0	0.0
	-25.00000	36.00000	19.50000	0.027269	19.083	0.0	0.0
	-24.00000	36.00000	19.50000	0.021763	19.083	0.0	0.0
	-23.00000	36.00000	19.50000	0.015254	19.083	0.0	0.0
	-22.00000	36.00000	19.50000	0.0076055	19.083	0.0	0.0
	-21.00000	36.00000	19.50000	-0.0013358	19.083	0.0	0.0
	-20.00000	36.00000	19.50000	-0.011741	19.083	0.0	0.0
	-19.00000	36.00000	19.50000	-0.023800	19.083	0.0	0.0
	-18.00000	36.00000	19.50000	-0.037721	19.083	0.0	0.0
	-17.00000	36.00000	19.50000	-0.053733	19.083	0.0	0.0
	-16.00000	36.00000	19.50000	-0.072085	19.083	0.0	0.0
	-15.00000	36.00000	19.50000	-0.093046	19.083	0.0	0.0
	-14.00000	36.00000	19.50000	-0.116160	19.083	0.0	0.0
	-13.00000	36.00000	19.50000	-0.14394	19.083	0.0	0.0
	-12.00000	36.00000	19.50000	-0.17448	19.083	0.0	0.0
	-11.00000	36.00000	19.50000	-0.20881	19.083	0.0	0.0
	-10.00000	36.00000	19.50000	-0.24723	19.083	0.0	0.0
	-9.00000	36.00000	19.50000	-0.28997	19.083	0.0	0.0
	-8.00000	36.00000	19.50000	-0.33724	19.083	0.0	0.0
	-7.00000	36.00000	19.50000	-0.38916	19.083	0.0	0.0
	-6.00000	36.00000	19.50000	-0.44570	19.083	0.0	0.0
	-5.00000	36.00000	19.50000	-0.50672	19.083	0.0	0.0
	-4.00000	36.00000	19.50000	-0.57187	19.083	0.0	0.0
	-3.00000	36.00000	19.50000	-0.64060	19.083	0.0	0.0
	-2.00000	36.00000	19.50000	-0.71214	19.083	0.0	0.0
	-1.00000	36.00000	19.50000	-0.78551	19.083	0.0	0.0
	0.00000	36.00000	19.50000	-0.85958	19.083	0.0	0.0
	1.00000	36.00000	19.50000	-0.93313	19.083	0.0	0.0
	2.00000	36.00000	19.50000	-1.0049	19.083	0.0	0.0
	3.00000	36.00000	19.50000	-1.0738	19.083	0.0	0.0
	4.00000	36.00000	19.50000	-1.1388	19.083	0.0	0.0
	5.00000	36.00000	19.50000	-1.1990	19.083	0.0	0.0
	6.00000	36.00000	19.50000	-1.2539	19.083	0.0	0.0
	7.00000	36.00000	19.50000	-1.3031	19.083	0.0	0.0
	8.00000	36.00000	19.50000	-1.3463	19.083	0.0	0.0
	9.00000	36.00000	19.50000	-1.3834	19.083	0.0	0.0
	10.00000	36.00000	19.50000	-1.4145	19.083	0.0	0.0
	11.00000	36.00000	19.50000	-1.4396	19.083	0.0	0.0
	12.00000	36.00000	19.50000	-1.4589	19.083	0.0	0.0
	13.00000	36.00000	19.50000	-1.4726	19.083	0.0	0.0
	14.00000	36.00000	19.50000	-1.4808	19.083	0.0	0.0
	15.00000	36.00000	19.50000	-1.4838	19.083	0.0	0.0
	16.00000	36.00000	19.50000	-1.4817	19.083	0.0	0.0
	17.00000	36.00000	19.50000	-1.4748	19.083	0.0	0.0
	18.00000	36.00000	19.50000	-1.4632	19.083	0.0	0.0
	19.00000	36.00000	19.50000	-1.4470	19.083	0.0	0.0
	20.00000	36.00000	19.50000	-1.4264	19.083	0.0	0.0
	21.00000	36.00000	19.50000	-1.4016	19.083	0.0	0.0
	22.00000	36.00000	19.50000	-1.3725	19.083	0.0	0.0
	23.00000	36.00000	19.50000	-1.3392	19.083	0.0	0.0
	24.00000	36.00000	19.50000	-1.3018	19.083	0.0	0.0
	25.00000	36.00000	19.50000	-1.2602	19.083	0.0	0.0
	26.00000	36.00000	19.50000	-1.2145	19.083	0.0	0.0
	27.00000	36.00000	19.50000	-1.1646	19.083	0.0	0.0
	28.00000	36.00000	19.50000	-1.1108	19.083	0.0	0.0
	29.00000	36.00000	19.50000	-1.0532	19.083	0.0	0.0
	30.00000	36.00000	19.50000	-0.99202	19.083	0.0	0.0
	31.00000	36.00000	19.50000	-0.92787	19.083	0.0	0.0
	32.00000	36.00000	19.50000	-0.86135	19.083	0.0	0.0
	33.00000	36.00000	19.50000	-0.79329	19.083	0.0	0.0
	34.00000	36.00000	19.50000	-0.72463	19.083	0.0	0.0
	35.00000	36.00000	19.50000	-0.65635	19.083	0.0	0.0
	36.00000	36.00000	19.50000	-0.58948	19.083	0.0	0.0
	37.00000	36.00000	19.50000	-0.52491	19.083	0.0	0.0
	38.00000	36.00000	19.50000	-0.46343	19.083	0.0	0.0
	39.00000	36.00000	19.50000	-0.40565	19.083	0.0	0.0
	40.00000	36.00000	19.50000	-0.35196	19.083	0.0	0.0
	41.00000	36.00000	19.50000	-0.30259	19.083	0.0	0.0
	42.00000	36.00000	19.50000	-0.25762	19.083	0.0	0.0
	43.00000	36.00000	19.50000	-0.21698	19.083	0.0	0.0
	44.00000	36.00000	19.50000	-0.18052	19.083	0.0	0.0
	45.00000	36.00000	19.50000	-0.14802	19.083	0.0	0.0
	46.00000	36.00000	19.50000	-0.11920	19.083	0.0	0.0
	47.00000	36.00000	19.50000	-0.093793	19.083	0.0	0.0
	48.00000	36.00000	19.50000	-0.071492	19.083	0.0	0.0
	49.00000	36.00000	19.50000	-0.052006	19.083	0.0	0.0
	50.00000	36.00000	19.50000	-0.035055	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
51.00000	36.00000	19.50000	-0.020371	19.083	0.0	0.0	0.0
52.00000	36.00000	19.50000	-0.0077074	19.083	0.0	0.0	0.0
53.00000	36.00000	19.50000	0.0031642	19.083	0.0	0.0	0.0
54.00000	36.00000	19.50000	0.012452	19.083	0.0	0.0	0.0
55.00000	36.00000	19.50000	0.020343	19.083	0.0	0.0	0.0
-25.00000	37.00000	19.50000	0.030116	19.083	0.0	0.0	0.0
-24.00000	37.00000	19.50000	0.025230	19.083	0.0	0.0	0.0
-23.00000	37.00000	19.50000	0.019453	19.083	0.0	0.0	0.0
-22.00000	37.00000	19.50000	0.012666	19.083	0.0	0.0	0.0
-21.00000	37.00000	19.50000	0.0047387	19.083	0.0	0.0	0.0
-20.00000	37.00000	19.50000	-0.0044737	19.083	0.0	0.0	0.0
-19.00000	37.00000	19.50000	-0.015130	19.083	0.0	0.0	0.0
-18.00000	37.00000	19.50000	-0.027405	19.083	0.0	0.0	0.0
-17.00000	37.00000	19.50000	-0.041487	19.083	0.0	0.0	0.0
-16.00000	37.00000	19.50000	-0.057578	19.083	0.0	0.0	0.0
-15.00000	37.00000	19.50000	-0.075891	19.083	0.0	0.0	0.0
-14.00000	37.00000	19.50000	-0.096653	19.083	0.0	0.0	0.0
-13.00000	37.00000	19.50000	-0.12009	19.083	0.0	0.0	0.0
-12.00000	37.00000	19.50000	-0.14643	19.083	0.0	0.0	0.0
-11.00000	37.00000	19.50000	-0.17590	19.083	0.0	0.0	0.0
-10.00000	37.00000	19.50000	-0.20870	19.083	0.0	0.0	0.0
-9.00000	37.00000	19.50000	-0.24499	19.083	0.0	0.0	0.0
-8.00000	37.00000	19.50000	-0.28487	19.083	0.0	0.0	0.0
-7.00000	37.00000	19.50000	-0.32841	19.083	0.0	0.0	0.0
-6.00000	37.00000	19.50000	-0.37553	19.083	0.0	0.0	0.0
-5.00000	37.00000	19.50000	-0.42607	19.083	0.0	0.0	0.0
-4.00000	37.00000	19.50000	-0.47972	19.083	0.0	0.0	0.0
-3.00000	37.00000	19.50000	-0.53601	19.083	0.0	0.0	0.0
-2.00000	37.00000	19.50000	-0.59434	19.083	0.0	0.0	0.0
-1.00000	37.00000	19.50000	-0.65397	19.083	0.0	0.0	0.0
1.00000	37.00000	19.50000	-0.71404	19.083	0.0	0.0	0.0
2.00000	37.00000	19.50000	-0.77364	19.083	0.0	0.0	0.0
3.00000	37.00000	19.50000	-0.83186	19.083	0.0	0.0	0.0
4.00000	37.00000	19.50000	-0.88782	19.083	0.0	0.0	0.0
5.00000	37.00000	19.50000	-0.94077	19.083	0.0	0.0	0.0
6.00000	37.00000	19.50000	-0.99006	19.083	0.0	0.0	0.0
7.00000	37.00000	19.50000	-1.0352	19.083	0.0	0.0	0.0
8.00000	37.00000	19.50000	-1.0758	19.083	0.0	0.0	0.0
9.00000	37.00000	19.50000	-1.1116	19.083	0.0	0.0	0.0
10.00000	37.00000	19.50000	-1.1425	19.083	0.0	0.0	0.0
11.00000	37.00000	19.50000	-1.1685	19.083	0.0	0.0	0.0
12.00000	37.00000	19.50000	-1.1897	19.083	0.0	0.0	0.0
13.00000	37.00000	19.50000	-1.2060	19.083	0.0	0.0	0.0
14.00000	37.00000	19.50000	-1.2176	19.083	0.0	0.0	0.0
15.00000	37.00000	19.50000	-1.2247	19.083	0.0	0.0	0.0
16.00000	37.00000	19.50000	-1.2273	19.083	0.0	0.0	0.0
17.00000	37.00000	19.50000	-1.2257	19.083	0.0	0.0	0.0
18.00000	37.00000	19.50000	-1.2199	19.083	0.0	0.0	0.0
19.00000	37.00000	19.50000	-1.2102	19.083	0.0	0.0	0.0
20.00000	37.00000	19.50000	-1.1966	19.083	0.0	0.0	0.0
21.00000	37.00000	19.50000	-1.1792	19.083	0.0	0.0	0.0
22.00000	37.00000	19.50000	-1.1582	19.083	0.0	0.0	0.0
23.00000	37.00000	19.50000	-1.1336	19.083	0.0	0.0	0.0
24.00000	37.00000	19.50000	-1.1055	19.083	0.0	0.0	0.0
25.00000	37.00000	19.50000	-1.0739	19.083	0.0	0.0	0.0
26.00000	37.00000	19.50000	-1.0390	19.083	0.0	0.0	0.0
27.00000	37.00000	19.50000	-1.0006	19.083	0.0	0.0	0.0
28.00000	37.00000	19.50000	-0.95898	19.083	0.0	0.0	0.0
29.00000	37.00000	19.50000	-0.91420	19.083	0.0	0.0	0.0
30.00000	37.00000	19.50000	-0.86647	19.083	0.0	0.0	0.0
31.00000	37.00000	19.50000	-0.81610	19.083	0.0	0.0	0.0
32.00000	37.00000	19.50000	-0.76348	19.083	0.0	0.0	0.0
33.00000	37.00000	19.50000	-0.70914	19.083	0.0	0.0	0.0
34.00000	37.00000	19.50000	-0.65370	19.083	0.0	0.0	0.0
35.00000	37.00000	19.50000	-0.59785	19.083	0.0	0.0	0.0
36.00000	37.00000	19.50000	-0.54233	19.083	0.0	0.0	0.0
37.00000	37.00000	19.50000	-0.48788	19.083	0.0	0.0	0.0
38.00000	37.00000	19.50000	-0.43518	19.083	0.0	0.0	0.0
39.00000	37.00000	19.50000	-0.38480	19.083	0.0	0.0	0.0
40.00000	37.00000	19.50000	-0.33723	19.083	0.0	0.0	0.0
41.00000	37.00000	19.50000	-0.29279	19.083	0.0	0.0	0.0
42.00000	37.00000	19.50000	-0.25169	19.083	0.0	0.0	0.0
43.00000	37.00000	19.50000	-0.21403	19.083	0.0	0.0	0.0
44.00000	37.00000	19.50000	-0.17979	19.083	0.0	0.0	0.0
45.00000	37.00000	19.50000	-0.14891	19.083	0.0	0.0	0.0
46.00000	37.00000	19.50000	-0.12122	19.083	0.0	0.0	0.0
47.00000	37.00000	19.50000	-0.096555	19.083	0.0	0.0	0.0
48.00000	37.00000	19.50000	-0.074699	19.083	0.0	0.0	0.0
49.00000	37.00000	19.50000	-0.055434	19.083	0.0	0.0	0.0
50.00000	37.00000	19.50000	-0.038535	19.083	0.0	0.0	0.0
51.00000	37.00000	19.50000	-0.023784	19.083	0.0	0.0	0.0
52.00000	37.00000	19.50000	-0.010968	19.083	0.0	0.0	0.0
53.00000	37.00000	19.50000	113.16E-6	19.083	0.0	0.0	0.0
54.00000	37.00000	19.50000	0.0096451	19.083	0.0	0.0	0.0
55.00000	37.00000	19.50000	0.017800	19.083	0.0	0.0	0.0
-25.00000	38.00000	19.50000	0.024735	19.083	0.0	0.0	0.0
-24.00000	38.00000	19.50000	0.032759	19.083	0.0	0.0	0.0
-23.00000	38.00000	19.50000	0.028451	19.083	0.0	0.0	0.0
-22.00000	38.00000	19.50000	0.023354	19.083	0.0	0.0	0.0
-21.00000	38.00000	19.50000	0.017366	19.083	0.0	0.0	0.0
-20.00000	38.00000	19.50000	0.010377	19.083	0.0	0.0	0.0
-19.00000	38.00000	19.50000	0.0022625	19.083	0.0	0.0	0.0
-18.00000	38.00000	19.50000	-0.0071089	19.083	0.0	0.0	0.0
-17.00000	38.00000	19.50000	-0.017881	19.083	0.0	0.0	0.0
-16.00000	38.00000	19.50000	-0.030209	19.083	0.0	0.0	0.0
-15.00000	38.00000	19.50000	-0.044256	19.083	0.0	0.0	0.0
-14.00000	38.00000	19.50000	-0.060191	19.083	0.0	0.0	0.0
-13.00000	38.00000	19.50000	-0.078192	19.083	0.0	0.0	0.0
-12.00000	38.00000	19.50000	-0.098433	19.083	0.0	0.0	0.0
-11.00000	38.00000	19.50000	-0.12109	19.083	0.0	0.0	0.0
-10.00000	38.00000	19.50000	-0.14631	19.083	0.0	0.0	0.0
-9.00000	38.00000	19.50000	-0.17424	19.083	0.0	0.0	0.0
-8.00000	38.00000	19.50000	-0.20498	19.083	0.0	0.0	0.0
-7.00000	38.00000	19.50000	-0.23860	19.083	0.0	0.0	0.0
-6.00000	38.00000	19.50000	-0.27508	19.083	0.0	0.0	0.0
-5.00000	38.00000	19.50000	-0.31436	19.083	0.0	0.0	0.0
-4.00000	38.00000	19.50000	-0.35626	19.083	0.0	0.0	0.0
-3.00000	38.00000	19.50000	-0.40051	19.083	0.0	0.0	0.0
-2.00000	38.00000	19.50000	-0.44674	19.083	0.0	0.0	0.0
-1.00000	38.00000	19.50000	-0.49446	19.083	0.0	0.0	0.0
0.00000	38.00000	19.50000	-0.54311	19.083	0.0	0.0	0.0
1.00000	38.00000	19.50000	-0.59202	19.083	0.0	0.0	0.0
2.00000	38.00000	19.50000	-0.64052	19.083	0.0	0.0	0.0
3.00000	38.00000	19.50000	-0.68791	19.083	0.0	0.0	0.0
4.00000	38.00000	19.50000	-0.73354	19.083	0.0	0.0	0.0
5.00000	38.00000	19.50000	-0.77681	19.083	0.0	0.0	0.0
6.00000	38.00000	19.50000	-0.81721	19.083	0.0	0.0	0.0
7.00000	38.00000	19.50000	-0.85432	19.083	0.0	0.0	0.0
8.00000	38.00000	19.50000	-0.88783	19.083	0.0	0.0	0.0
9.00000	38.00000	19.50000	-0.91753	19.083	0.0	0.0	0.0
10.00000	38.00000	19.50000	-0.94328	19.083	0.0	0.0	0.0
11.00000	38.00000	19.50000	-0.96502	19.083	0.0	0.0	0.0
12.00000	38.00000	19.50000	-0.98274	19.083	0.0	0.0	0.0
13.00000	38.00000	19.50000	-0.99648	19.083	0.0	0.0	0.0
14.00000	38.00000	19.50000	-1.0063	19.083	0.0	0.0	0.0
15.00000	38.00000	19.50000	-1.0123	19.083	0.0	0.0	0.0
16.00000	38.00000	19.50000	-1.0146	19.083	0.0	0.0	0.0
17.00000	38.00000	19.50000	-1.0133	19.083	0.0	0.0	0.0
18.00000	38.00000	19.50000	-1.0085	19.083	0.0	0.0	0.0
19.00000	38.00000	19.50000	-1.0003	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mm]	Calc Level [MOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
19.00000	38.00000	19.50000	-0.98886	19.083	0.0	0.0	0.0
20.00000	38.00000	19.50000	-0.97421	19.083	0.0	0.0	0.0
21.00000	38.00000	19.50000	-0.95648	19.083	0.0	0.0	0.0
22.00000	38.00000	19.50000	-0.93572	19.083	0.0	0.0	0.0
23.00000	38.00000	19.50000	-0.91203	19.083	0.0	0.0	0.0
24.00000	38.00000	19.50000	-0.88544	19.083	0.0	0.0	0.0
25.00000	38.00000	19.50000	-0.85605	19.083	0.0	0.0	0.0
26.00000	38.00000	19.50000	-0.82391	19.083	0.0	0.0	0.0
27.00000	38.00000	19.50000	-0.78914	19.083	0.0	0.0	0.0
28.00000	38.00000	19.50000	-0.75188	19.083	0.0	0.0	0.0
29.00000	38.00000	19.50000	-0.71233	19.083	0.0	0.0	0.0
30.00000	38.00000	19.50000	-0.67075	19.083	0.0	0.0	0.0
31.00000	38.00000	19.50000	-0.62747	19.083	0.0	0.0	0.0
32.00000	38.00000	19.50000	-0.58292	19.083	0.0	0.0	0.0
33.00000	38.00000	19.50000	-0.53757	19.083	0.0	0.0	0.0
34.00000	38.00000	19.50000	-0.49195	19.083	0.0	0.0	0.0
35.00000	38.00000	19.50000	-0.44660	19.083	0.0	0.0	0.0
36.00000	38.00000	19.50000	-0.40209	19.083	0.0	0.0	0.0
37.00000	38.00000	19.50000	-0.35890	19.083	0.0	0.0	0.0
38.00000	38.00000	19.50000	-0.31750	19.083	0.0	0.0	0.0
39.00000	38.00000	19.50000	-0.27825	19.083	0.0	0.0	0.0
40.00000	38.00000	19.50000	-0.24142	19.083	0.0	0.0	0.0
41.00000	38.00000	19.50000	-0.20720	19.083	0.0	0.0	0.0
42.00000	38.00000	19.50000	-0.17567	19.083	0.0	0.0	0.0
43.00000	38.00000	19.50000	-0.14687	19.083	0.0	0.0	0.0
44.00000	38.00000	19.50000	-0.12076	19.083	0.0	0.0	0.0
45.00000	38.00000	19.50000	-0.097235	19.083	0.0	0.0	0.0
46.00000	38.00000	19.50000	-0.076181	19.083	0.0	0.0	0.0
47.00000	38.00000	19.50000	-0.057447	19.083	0.0	0.0	0.0
48.00000	38.00000	19.50000	-0.040868	19.083	0.0	0.0	0.0
49.00000	38.00000	19.50000	-0.026274	19.083	0.0	0.0	0.0
50.00000	38.00000	19.50000	-0.013495	19.083	0.0	0.0	0.0
51.00000	38.00000	19.50000	-0.0023624	19.083	0.0	0.0	0.0
52.00000	38.00000	19.50000	0.0072841	19.083	0.0	0.0	0.0
53.00000	38.00000	19.50000	0.015596	19.083	0.0	0.0	0.0
54.00000	38.00000	19.50000	0.022716	19.083	0.0	0.0	0.0
55.00000	38.00000	19.50000	0.028773	19.083	0.0	0.0	0.0
-25.00000	39.00000	19.50000	0.035191	19.083	0.0	0.0	0.0
-24.00000	39.00000	19.50000	0.031420	19.083	0.0	0.0	0.0
-23.00000	39.00000	19.50000	0.026952	19.083	0.0	0.0	0.0
-22.00000	39.00000	19.50000	0.021701	19.083	0.0	0.0	0.0
-21.00000	39.00000	19.50000	0.015572	19.083	0.0	0.0	0.0
-20.00000	39.00000	19.50000	0.0084631	19.083	0.0	0.0	0.0
-19.00000	39.00000	19.50000	263.34E-6	19.083	0.0	0.0	0.0
-18.00000	39.00000	19.50000	-0.0091457	19.083	0.0	0.0	0.0
-17.00000	39.00000	19.50000	-0.019390	19.083	0.0	0.0	0.0
-16.00000	39.00000	19.50000	-0.032100	19.083	0.0	0.0	0.0
-15.00000	39.00000	19.50000	-0.045911	19.083	0.0	0.0	0.0
-14.00000	39.00000	19.50000	-0.061460	19.083	0.0	0.0	0.0
-13.00000	39.00000	19.50000	-0.078880	19.083	0.0	0.0	0.0
-12.00000	39.00000	19.50000	-0.098299	19.083	0.0	0.0	0.0
-11.00000	39.00000	19.50000	-0.11983	19.083	0.0	0.0	0.0
-10.00000	39.00000	19.50000	-0.14356	19.083	0.0	0.0	0.0
-9.00000	39.00000	19.50000	-0.16957	19.083	0.0	0.0	0.0
-8.00000	39.00000	19.50000	-0.19786	19.083	0.0	0.0	0.0
-7.00000	39.00000	19.50000	-0.22842	19.083	0.0	0.0	0.0
-6.00000	39.00000	19.50000	-0.26116	19.083	0.0	0.0	0.0
-5.00000	39.00000	19.50000	-0.29592	19.083	0.0	0.0	0.0
-4.00000	39.00000	19.50000	-0.33249	19.083	0.0	0.0	0.0
-3.00000	39.00000	19.50000	-0.37053	19.083	0.0	0.0	0.0
-2.00000	39.00000	19.50000	-0.40968	19.083	0.0	0.0	0.0
-1.00000	39.00000	19.50000	-0.44949	19.083	0.0	0.0	0.0
0.00000	39.00000	19.50000	-0.48945	19.083	0.0	0.0	0.0
1.00000	39.00000	19.50000	-0.52905	19.083	0.0	0.0	0.0
2.00000	39.00000	19.50000	-0.56775	19.083	0.0	0.0	0.0
3.00000	39.00000	19.50000	-0.60506	19.083	0.0	0.0	0.0
4.00000	39.00000	19.50000	-0.64049	19.083	0.0	0.0	0.0
5.00000	39.00000	19.50000	-0.67365	19.083	0.0	0.0	0.0
6.00000	39.00000	19.50000	-0.70421	19.083	0.0	0.0	0.0
7.00000	39.00000	19.50000	-0.73188	19.083	0.0	0.0	0.0
8.00000	39.00000	19.50000	-0.75649	19.083	0.0	0.0	0.0
9.00000	39.00000	19.50000	-0.77789	19.083	0.0	0.0	0.0
10.00000	39.00000	19.50000	-0.79602	19.083	0.0	0.0	0.0
11.00000	39.00000	19.50000	-0.81085	19.083	0.0	0.0	0.0
12.00000	39.00000	19.50000	-0.82239	19.083	0.0	0.0	0.0
13.00000	39.00000	19.50000	-0.83067	19.083	0.0	0.0	0.0
14.00000	39.00000	19.50000	-0.83576	19.083	0.0	0.0	0.0
15.00000	39.00000	19.50000	-0.83773	19.083	0.0	0.0	0.0
16.00000	39.00000	19.50000	-0.83666	19.083	0.0	0.0	0.0
17.00000	39.00000	19.50000	-0.83264	19.083	0.0	0.0	0.0
18.00000	39.00000	19.50000	-0.82576	19.083	0.0	0.0	0.0
19.00000	39.00000	19.50000	-0.81611	19.083	0.0	0.0	0.0
20.00000	39.00000	19.50000	-0.80376	19.083	0.0	0.0	0.0
21.00000	39.00000	19.50000	-0.78880	19.083	0.0	0.0	0.0
22.00000	39.00000	19.50000	-0.77130	19.083	0.0	0.0	0.0
23.00000	39.00000	19.50000	-0.75134	19.083	0.0	0.0	0.0
24.00000	39.00000	19.50000	-0.72898	19.083	0.0	0.0	0.0
25.00000	39.00000	19.50000	-0.70430	19.083	0.0	0.0	0.0
26.00000	39.00000	19.50000	-0.67738	19.083	0.0	0.0	0.0
27.00000	39.00000	19.50000	-0.64835	19.083	0.0	0.0	0.0
28.00000	39.00000	19.50000	-0.61733	19.083	0.0	0.0	0.0
29.00000	39.00000	19.50000	-0.58452	19.083	0.0	0.0	0.0
30.00000	39.00000	19.50000	-0.55014	19.083	0.0	0.0	0.0
31.00000	39.00000	19.50000	-0.51447	19.083	0.0	0.0	0.0
32.00000	39.00000	19.50000	-0.47784	19.083	0.0	0.0	0.0
33.00000	39.00000	19.50000	-0.44062	19.083	0.0	0.0	0.0
34.00000	39.00000	19.50000	-0.40322	19.083	0.0	0.0	0.0
35.00000	39.00000	19.50000	-0.36605	19.083	0.0	0.0	0.0
36.00000	39.00000	19.50000	-0.32953	19.083	0.0	0.0	0.0
37.00000	39.00000	19.50000	-0.29404	19.083	0.0	0.0	0.0
38.00000	39.00000	19.50000	-0.25994	19.083	0.0	0.0	0.0
39.00000	39.00000	19.50000	-0.22750	19.083	0.0	0.0	0.0
40.00000	39.00000	19.50000	-0.19695	19.083	0.0	0.0	0.0
41.00000	39.00000	19.50000	-0.16844	19.083	0.0	0.0	0.0
42.00000	39.00000	19.50000	-0.14206	19.083	0.0	0.0	0.0
43.00000	39.00000	19.50000	-0.11786	19.083	0.0	0.0	0.0
44.00000	39.00000	19.50000	-0.095820	19.083	0.0	0.0	0.0
45.00000	39.00000	19.50000	-0.075881	19.083	0.0	0.0	0.0
46.00000	39.00000	19.50000	-0.057961	19.083	0.0	0.0	0.0
47.00000	39.00000	19.50000	-0.041955	19.083	0.0	0.0	0.0
48.00000	39.00000	19.50000	-0.027741	19.083	0.0	0.0	0.0
49.00000	39.00000	19.50000	-0.015189	19.083	0.0	0.0	0.0
50.00000	39.00000	19.50000	-0.0041674	19.083	0.0	0.0	0.0
51.00000	39.00000	19.50000	0.0054564	19.083	0.0	0.0	0.0
52.00000	39.00000	19.50000	0.013811	19.083	0.0	0.0	0.0
53.00000	39.00000	19.50000	0.021019	19.083	0.0	0.0	0.0
54.00000	39.00000	19.50000	0.027197	19.083	0.0	0.0	0.0
55.00000	39.00000	19.50000	0.032453	19.083	0.0	0.0	0.0
-25.00000	40.00000	19.50000	0.037409	19.083	0.0	0.0	0.0
-24.00000	40.00000	19.50000	0.034133	19.083	0.0	0.0	0.0
-23.00000	40.00000	19.50000	0.030244	19.083	0.0	0.0	0.0
-22.00000	40.00000	19.50000	0.025668	19.083	0.0	0.0	0.0
-21.00000	40.00000	19.50000	0.020326	19.083	0.0	0.0	0.0
-20.00000	40.00000	19.50000	0.014132	19.083	0.0	0.0	0.0
-19.00000	40.00000	19.50000	0.0069941	19.083	0.0	0.0	0.0
-18.00000	40.00000	19.50000	-0.0011844	19.083	0.0	0.0	0.0
-17.00000	40.00000	19.50000	-0.010505	19.083	0.0	0.0	0.0
-16.00000	40.00000	19.50000	-0.021074	19.083	0.0	0.0	0.0
-15.00000	40.00000	19.50000	-0.032997	19.083	0.0	0.0	0.0
-14.00000	40.00000	19.50000	-0.046379	19.083	0.0	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-13.00000	40.00000	19.50000	-0.061322	19.083	0.0	0.0
	-12.00000	40.00000	19.50000	-0.077920	19.083	0.0	0.0
	-11.00000	40.00000	19.50000	-0.096251	19.083	0.0	0.0
	-10.00000	40.00000	19.50000	-0.11638	19.083	0.0	0.0
	-9.00000	40.00000	19.50000	-0.13833	19.083	0.0	0.0
	-8.00000	40.00000	19.50000	-0.16212	19.083	0.0	0.0
	-7.00000	40.00000	19.50000	-0.18770	19.083	0.0	0.0
	-6.00000	40.00000	19.50000	-0.21500	19.083	0.0	0.0
	-5.00000	40.00000	19.50000	-0.24386	19.083	0.0	0.0
	-4.00000	40.00000	19.50000	-0.27410	19.083	0.0	0.0
	-3.00000	40.00000	19.50000	-0.30547	19.083	0.0	0.0
	-2.00000	40.00000	19.50000	-0.33766	19.083	0.0	0.0
	-1.00000	40.00000	19.50000	-0.37031	19.083	0.0	0.0
	0.00000	40.00000	19.50000	-0.40305	19.083	0.0	0.0
	1.00000	40.00000	19.50000	-0.43547	19.083	0.0	0.0
	2.00000	40.00000	19.50000	-0.46715	19.083	0.0	0.0
	3.00000	40.00000	19.50000	-0.49771	19.083	0.0	0.0
	4.00000	40.00000	19.50000	-0.52678	19.083	0.0	0.0
	5.00000	40.00000	19.50000	-0.55404	19.083	0.0	0.0
	6.00000	40.00000	19.50000	-0.57921	19.083	0.0	0.0
	7.00000	40.00000	19.50000	-0.60207	19.083	0.0	0.0
	8.00000	40.00000	19.50000	-0.62245	19.083	0.0	0.0
	9.00000	40.00000	19.50000	-0.64023	19.083	0.0	0.0
	10.00000	40.00000	19.50000	-0.65532	19.083	0.0	0.0
	11.00000	40.00000	19.50000	-0.66770	19.083	0.0	0.0
	12.00000	40.00000	19.50000	-0.67736	19.083	0.0	0.0
	13.00000	40.00000	19.50000	-0.68431	19.083	0.0	0.0
	14.00000	40.00000	19.50000	-0.68860	19.083	0.0	0.0
	15.00000	40.00000	19.50000	-0.69027	19.083	0.0	0.0
	16.00000	40.00000	19.50000	-0.68938	19.083	0.0	0.0
	17.00000	40.00000	19.50000	-0.68601	19.083	0.0	0.0
	18.00000	40.00000	19.50000	-0.68022	19.083	0.0	0.0
	19.00000	40.00000	19.50000	-0.67209	19.083	0.0	0.0
	20.00000	40.00000	19.50000	-0.66168	19.083	0.0	0.0
	21.00000	40.00000	19.50000	-0.64908	19.083	0.0	0.0
	22.00000	40.00000	19.50000	-0.63434	19.083	0.0	0.0
	23.00000	40.00000	19.50000	-0.61753	19.083	0.0	0.0
	24.00000	40.00000	19.50000	-0.59874	19.083	0.0	0.0
	25.00000	40.00000	19.50000	-0.57803	19.083	0.0	0.0
	26.00000	40.00000	19.50000	-0.55550	19.083	0.0	0.0
	27.00000	40.00000	19.50000	-0.53126	19.083	0.0	0.0
	28.00000	40.00000	19.50000	-0.50544	19.083	0.0	0.0
	29.00000	40.00000	19.50000	-0.47820	19.083	0.0	0.0
	30.00000	40.00000	19.50000	-0.44973	19.083	0.0	0.0
	31.00000	40.00000	19.50000	-0.42027	19.083	0.0	0.0
	32.00000	40.00000	19.50000	-0.39048	19.083	0.0	0.0
	33.00000	40.00000	19.50000	-0.35945	19.083	0.0	0.0
	34.00000	40.00000	19.50000	-0.32870	19.083	0.0	0.0
	35.00000	40.00000	19.50000	-0.29815	19.083	0.0	0.0
	36.00000	40.00000	19.50000	-0.26811	19.083	0.0	0.0
	37.00000	40.00000	19.50000	-0.23888	19.083	0.0	0.0
	38.00000	40.00000	19.50000	-0.21073	19.083	0.0	0.0
	39.00000	40.00000	19.50000	-0.18388	19.083	0.0	0.0
	40.00000	40.00000	19.50000	-0.15852	19.083	0.0	0.0
	41.00000	40.00000	19.50000	-0.13477	19.083	0.0	0.0
	42.00000	40.00000	19.50000	-0.11272	19.083	0.0	0.0
	43.00000	40.00000	19.50000	-0.092403	19.083	0.0	0.0
	44.00000	40.00000	19.50000	-0.073830	19.083	0.0	0.0
	45.00000	40.00000	19.50000	-0.056966	19.083	0.0	0.0
	46.00000	40.00000	19.50000	-0.041757	19.083	0.0	0.0
	47.00000	40.00000	19.50000	-0.028125	19.083	0.0	0.0
	48.00000	40.00000	19.50000	-0.015983	19.083	0.0	0.0
	49.00000	40.00000	19.50000	-0.0052314	19.083	0.0	0.0
	50.00000	40.00000	19.50000	0.0042317	19.083	0.0	0.0
	51.00000	40.00000	19.50000	0.012510	19.083	0.0	0.0
	52.00000	40.00000	19.50000	0.019707	19.083	0.0	0.0
	53.00000	40.00000	19.50000	0.025922	19.083	0.0	0.0
	54.00000	40.00000	19.50000	0.031249	19.083	0.0	0.0
	55.00000	40.00000	19.50000	0.035779	19.083	0.0	0.0
	-25.00000	41.00000	19.50000	0.039414	19.083	0.0	0.0
	-24.00000	41.00000	19.50000	0.036592	19.083	0.0	0.0
	-23.00000	41.00000	19.50000	0.033232	19.083	0.0	0.0
	-22.00000	41.00000	19.50000	0.029272	19.083	0.0	0.0
	-21.00000	41.00000	19.50000	0.024644	19.083	0.0	0.0
	-20.00000	41.00000	19.50000	0.019279	19.083	0.0	0.0
	-19.00000	41.00000	19.50000	0.013099	19.083	0.0	0.0
	-18.00000	41.00000	19.50000	0.0060254	19.083	0.0	0.0
	-17.00000	41.00000	19.50000	-0.0020236	19.083	0.0	0.0
	-16.00000	41.00000	19.50000	-0.011132	19.083	0.0	0.0
	-15.00000	41.00000	19.50000	-0.021384	19.083	0.0	0.0
	-14.00000	41.00000	19.50000	-0.032859	19.083	0.0	0.0
	-13.00000	41.00000	19.50000	-0.045636	19.083	0.0	0.0
	-12.00000	41.00000	19.50000	-0.059780	19.083	0.0	0.0
	-11.00000	41.00000	19.50000	-0.075349	19.083	0.0	0.0
	-10.00000	41.00000	19.50000	-0.092379	19.083	0.0	0.0
	-9.00000	41.00000	19.50000	-0.11089	19.083	0.0	0.0
	-8.00000	41.00000	19.50000	-0.13087	19.083	0.0	0.0
	-7.00000	41.00000	19.50000	-0.15227	19.083	0.0	0.0
	-6.00000	41.00000	19.50000	-0.17502	19.083	0.0	0.0
	-5.00000	41.00000	19.50000	-0.19899	19.083	0.0	0.0
	-4.00000	41.00000	19.50000	-0.22483	19.083	0.0	0.0
	-3.00000	41.00000	19.50000	-0.24992	19.083	0.0	0.0
	-2.00000	41.00000	19.50000	-0.27642	19.083	0.0	0.0
	-1.00000	41.00000	19.50000	-0.30327	19.083	0.0	0.0
	0.00000	41.00000	19.50000	-0.33014	19.083	0.0	0.0
	1.00000	41.00000	19.50000	-0.35673	19.083	0.0	0.0
	2.00000	41.00000	19.50000	-0.38272	19.083	0.0	0.0
	3.00000	41.00000	19.50000	-0.40781	19.083	0.0	0.0
	4.00000	41.00000	19.50000	-0.43169	19.083	0.0	0.0
	5.00000	41.00000	19.50000	-0.45412	19.083	0.0	0.0
	6.00000	41.00000	19.50000	-0.47487	19.083	0.0	0.0
	7.00000	41.00000	19.50000	-0.49375	19.083	0.0	0.0
	8.00000	41.00000	19.50000	-0.51062	19.083	0.0	0.0
	9.00000	41.00000	19.50000	-0.52537	19.083	0.0	0.0
	10.00000	41.00000	19.50000	-0.53792	19.083	0.0	0.0
	11.00000	41.00000	19.50000	-0.54824	19.083	0.0	0.0
	12.00000	41.00000	19.50000	-0.55630	19.083	0.0	0.0
	13.00000	41.00000	19.50000	-0.56212	19.083	0.0	0.0
	14.00000	41.00000	19.50000	-0.56570	19.083	0.0	0.0
	15.00000	41.00000	19.50000	-0.56710	19.083	0.0	0.0
	16.00000	41.00000	19.50000	-0.56636	19.083	0.0	0.0
	17.00000	41.00000	19.50000	-0.56352	19.083	0.0	0.0
	18.00000	41.00000	19.50000	-0.55864	19.083	0.0	0.0
	19.00000	41.00000	19.50000	-0.55179	19.083	0.0	0.0
	20.00000	41.00000	19.50000	-0.54302	19.083	0.0	0.0
	21.00000	41.00000	19.50000	-0.53240	19.083	0.0	0.0
	22.00000	41.00000	19.50000	-0.52000	19.083	0.0	0.0
	23.00000	41.00000	19.50000	-0.50587	19.083	0.0	0.0
	24.00000	41.00000	19.50000	-0.49008	19.083	0.0	0.0
	25.00000	41.00000	19.50000	-0.47272	19.083	0.0	0.0
	26.00000	41.00000	19.50000	-0.45388	19.083	0.0	0.0
	27.00000	41.00000	19.50000	-0.43364	19.083	0.0	0.0
	28.00000	41.00000	19.50000	-0.41213	19.083	0.0	0.0
	29.00000	41.00000	19.50000	-0.38950	19.083	0.0	0.0
	30.00000	41.00000	19.50000	-0.36590	19.083	0.0	0.0
	31.00000	41.00000	19.50000	-0.34153	19.083	0.0	0.0
	32.00000	41.00000	19.50000	-0.31660	19.083	0.0	0.0
	33.00000	41.00000	19.50000	-0.29135	19.083	0.0	0.0
	34.00000	41.00000	19.50000	-0.26601	19.083	0.0	0.0
	35.00000	41.00000	19.50000	-0.24084	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [MOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	36.00000	41.00000	19.50000	-0.21608	19.083	0.0	0.0
	37.00000	41.00000	19.50000	-0.19196	19.083	0.0	0.0
	38.00000	41.00000	19.50000	-0.16869	19.083	0.0	0.0
	39.00000	41.00000	19.50000	-0.14645	19.083	0.0	0.0
	40.00000	41.00000	19.50000	-0.12539	19.083	0.0	0.0
	41.00000	41.00000	19.50000	-0.10560	19.083	0.0	0.0
	42.00000	41.00000	19.50000	-0.087175	19.083	0.0	0.0
	43.00000	41.00000	19.50000	-0.070145	19.083	0.0	0.0
	44.00000	41.00000	19.50000	-0.054523	19.083	0.0	0.0
	45.00000	41.00000	19.50000	-0.040294	19.083	0.0	0.0
	46.00000	41.00000	19.50000	-0.027420	19.083	0.0	0.0
	47.00000	41.00000	19.50000	-0.015848	19.083	0.0	0.0
	48.00000	41.00000	19.50000	-0.0055143	19.083	0.0	0.0
	49.00000	41.00000	19.50000	0.0036570	19.083	0.0	0.0
	50.00000	41.00000	19.50000	0.011744	19.083	0.0	0.0
	51.00000	41.00000	19.50000	0.018830	19.083	0.0	0.0
	52.00000	41.00000	19.50000	0.024995	19.083	0.0	0.0
	53.00000	41.00000	19.50000	0.030320	19.083	0.0	0.0
	54.00000	41.00000	19.50000	0.034882	19.083	0.0	0.0
	55.00000	41.00000	19.50000	0.038756	19.083	0.0	0.0
	-25.00000	42.00000	19.50000	0.041208	19.083	0.0	0.0
	-24.00000	42.00000	19.50000	0.038800	19.083	0.0	0.0
	-23.00000	42.00000	19.50000	0.035921	19.083	0.0	0.0
	-22.00000	42.00000	19.50000	0.032520	19.083	0.0	0.0
	-21.00000	42.00000	19.50000	0.028539	19.083	0.0	0.0
	-20.00000	42.00000	19.50000	0.023919	19.083	0.0	0.0
	-19.00000	42.00000	19.50000	0.018599	19.083	0.0	0.0
	-18.00000	42.00000	19.50000	0.012514	19.083	0.0	0.0
	-17.00000	42.00000	19.50000	0.0055966	19.083	0.0	0.0
	-16.00000	42.00000	19.50000	-0.0022186	19.083	0.0	0.0
	-15.00000	42.00000	19.50000	-0.010997	19.083	0.0	0.0
	-14.00000	42.00000	19.50000	-0.020801	19.083	0.0	0.0
	-13.00000	42.00000	19.50000	-0.031689	19.083	0.0	0.0
	-12.00000	42.00000	19.50000	-0.043707	19.083	0.0	0.0
	-11.00000	42.00000	19.50000	-0.056895	19.083	0.0	0.0
	-10.00000	42.00000	19.50000	-0.071276	19.083	0.0	0.0
	-9.00000	42.00000	19.50000	-0.086853	19.083	0.0	0.0
	-8.00000	42.00000	19.50000	-0.10361	19.083	0.0	0.0
	-7.00000	42.00000	19.50000	-0.12150	19.083	0.0	0.0
	-6.00000	42.00000	19.50000	-0.14046	19.083	0.0	0.0
	-5.00000	42.00000	19.50000	-0.16037	19.083	0.0	0.0
	-4.00000	42.00000	19.50000	-0.18111	19.083	0.0	0.0
	-3.00000	42.00000	19.50000	-0.20250	19.083	0.0	0.0
	-2.00000	42.00000	19.50000	-0.22435	19.083	0.0	0.0
	-1.00000	42.00000	19.50000	-0.24644	19.083	0.0	0.0
	0.00000	42.00000	19.50000	-0.26854	19.083	0.0	0.0
	1.00000	42.00000	19.50000	-0.29039	19.083	0.0	0.0
	2.00000	42.00000	19.50000	-0.31174	19.083	0.0	0.0
	3.00000	42.00000	19.50000	-0.33235	19.083	0.0	0.0
	4.00000	42.00000	19.50000	-0.35200	19.083	0.0	0.0
	5.00000	42.00000	19.50000	-0.37046	19.083	0.0	0.0
	6.00000	42.00000	19.50000	-0.38757	19.083	0.0	0.0
	7.00000	42.00000	19.50000	-0.40317	19.083	0.0	0.0
	8.00000	42.00000	19.50000	-0.41712	19.083	0.0	0.0
	9.00000	42.00000	19.50000	-0.42935	19.083	0.0	0.0
	10.00000	42.00000	19.50000	-0.43977	19.083	0.0	0.0
	11.00000	42.00000	19.50000	-0.44835	19.083	0.0	0.0
	12.00000	42.00000	19.50000	-0.45507	19.083	0.0	0.0
	13.00000	42.00000	19.50000	-0.45992	19.083	0.0	0.0
	14.00000	42.00000	19.50000	-0.46291	19.083	0.0	0.0
	15.00000	42.00000	19.50000	-0.46407	19.083	0.0	0.0
	16.00000	42.00000	19.50000	-0.46343	19.083	0.0	0.0
	17.00000	42.00000	19.50000	-0.46103	19.083	0.0	0.0
	18.00000	42.00000	19.50000	-0.45692	19.083	0.0	0.0
	19.00000	42.00000	19.50000	-0.45115	19.083	0.0	0.0
	20.00000	42.00000	19.50000	-0.44376	19.083	0.0	0.0
	21.00000	42.00000	19.50000	-0.43483	19.083	0.0	0.0
	22.00000	42.00000	19.50000	-0.42439	19.083	0.0	0.0
	23.00000	42.00000	19.50000	-0.41252	19.083	0.0	0.0
	24.00000	42.00000	19.50000	-0.39927	19.083	0.0	0.0
	25.00000	42.00000	19.50000	-0.38473	19.083	0.0	0.0
	26.00000	42.00000	19.50000	-0.36896	19.083	0.0	0.0
	27.00000	42.00000	19.50000	-0.35207	19.083	0.0	0.0
	28.00000	42.00000	19.50000	-0.33416	19.083	0.0	0.0
	29.00000	42.00000	19.50000	-0.31534	19.083	0.0	0.0
	30.00000	42.00000	19.50000	-0.29577	19.083	0.0	0.0
	31.00000	42.00000	19.50000	-0.27559	19.083	0.0	0.0
	32.00000	42.00000	19.50000	-0.25498	19.083	0.0	0.0
	33.00000	42.00000	19.50000	-0.23412	19.083	0.0	0.0
	34.00000	42.00000	19.50000	-0.21321	19.083	0.0	0.0
	35.00000	42.00000	19.50000	-0.19243	19.083	0.0	0.0
	36.00000	42.00000	19.50000	-0.17199	19.083	0.0	0.0
	37.00000	42.00000	19.50000	-0.15207	19.083	0.0	0.0
	38.00000	42.00000	19.50000	-0.13281	19.083	0.0	0.0
	39.00000	42.00000	19.50000	-0.11438	19.083	0.0	0.0
	40.00000	42.00000	19.50000	-0.096876	19.083	0.0	0.0
	41.00000	42.00000	19.50000	-0.080401	19.083	0.0	0.0
	42.00000	42.00000	19.50000	-0.065016	19.083	0.0	0.0
	43.00000	42.00000	19.50000	-0.050758	19.083	0.0	0.0
	44.00000	42.00000	19.50000	-0.037643	19.083	0.0	0.0
	45.00000	42.00000	19.50000	-0.025664	19.083	0.0	0.0
	46.00000	42.00000	19.50000	-0.014799	19.083	0.0	0.0
	47.00000	42.00000	19.50000	-0.0050092	19.083	0.0	0.0
	48.00000	42.00000	19.50000	0.0037521	19.083	0.0	0.0
	49.00000	42.00000	19.50000	0.011541	19.083	0.0	0.0
	50.00000	42.00000	19.50000	0.018420	19.083	0.0	0.0
	51.00000	42.00000	19.50000	0.024451	19.083	0.0	0.0
	52.00000	42.00000	19.50000	0.029700	19.083	0.0	0.0
	53.00000	42.00000	19.50000	0.034232	19.083	0.0	0.0
	54.00000	42.00000	19.50000	0.038110	19.083	0.0	0.0
	55.00000	42.00000	19.50000	0.041395	19.083	0.0	0.0
	-25.00000	43.00000	19.50000	0.042794	19.083	0.0	0.0
	-24.00000	43.00000	19.50000	0.040763	19.083	0.0	0.0
	-23.00000	43.00000	19.50000	0.038320	19.083	0.0	0.0
	-22.00000	43.00000	19.50000	0.035422	19.083	0.0	0.0
	-21.00000	43.00000	19.50000	0.032023	19.083	0.0	0.0
	-20.00000	43.00000	19.50000	0.028073	19.083	0.0	0.0
	-19.00000	43.00000	19.50000	0.023522	19.083	0.0	0.0
	-18.00000	43.00000	19.50000	0.018315	19.083	0.0	0.0
	-17.00000	43.00000	19.50000	0.012402	19.083	0.0	0.0
	-16.00000	43.00000	19.50000	0.0057226	19.083	0.0	0.0
	-15.00000	43.00000	19.50000	-0.0017575	19.083	0.0	0.0
	-14.00000	43.00000	19.50000	-0.010101	19.083	0.0	0.0
	-13.00000	43.00000	19.50000	-0.019346	19.083	0.0	0.0
	-12.00000	43.00000	19.50000	-0.029527	19.083	0.0	0.0
	-11.00000	43.00000	19.50000	-0.040669	19.083	0.0	0.0
	-10.00000	43.00000	19.50000	-0.052784	19.083	0.0	0.0
	-9.00000	43.00000	19.50000	-0.065869	19.083	0.0	0.0
	-8.00000	43.00000	19.50000	-0.079903	19.083	0.0	0.0
	-7.00000	43.00000	19.50000	-0.094844	19.083	0.0	0.0
	-6.00000	43.00000	19.50000	-0.11063	19.083	0.0	0.0
	-5.00000	43.00000	19.50000	-0.12717	19.083	0.0	0.0
	-4.00000	43.00000	19.50000	-0.14435	19.083	0.0	0.0
	-3.00000	43.00000	19.50000	-0.16203	19.083	0.0	0.0
	-2.00000	43.00000	19.50000	-0.18006	19.083	0.0	0.0
	-1.00000	43.00000	19.50000	-0.19826	19.083	0.0	0.0
	0.00000	43.00000	19.50000	-0.21645	19.083	0.0	0.0
	1.00000	43.00000	19.50000	-0.23442	19.083	0.0	0.0
	2.00000	43.00000	19.50000	-0.25198	19.083	0.0	0.0
	3.00000	43.00000	19.50000	-0.26893	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	4.00000	43.00000	19.50000	-0.28510	19.083	0.0	0.0
	5.00000	43.00000	19.50000	-0.30031	19.083	0.0	0.0
	6.00000	43.00000	19.50000	-0.31442	19.083	0.0	0.0
	7.00000	43.00000	19.50000	-0.32730	19.083	0.0	0.0
	8.00000	43.00000	19.50000	-0.33884	19.083	0.0	0.0
	9.00000	43.00000	19.50000	-0.34936	19.083	0.0	0.0
	10.00000	43.00000	19.50000	-0.35760	19.083	0.0	0.0
	11.00000	43.00000	19.50000	-0.36473	19.083	0.0	0.0
	12.00000	43.00000	19.50000	-0.37031	19.083	0.0	0.0
	13.00000	43.00000	19.50000	-0.37433	19.083	0.0	0.0
	14.00000	43.00000	19.50000	-0.37681	19.083	0.0	0.0
	15.00000	43.00000	19.50000	-0.37776	19.083	0.0	0.0
	16.00000	43.00000	19.50000	-0.37721	19.083	0.0	0.0
	17.00000	43.00000	19.50000	-0.37518	19.083	0.0	0.0
	18.00000	43.00000	19.50000	-0.37171	19.083	0.0	0.0
	19.00000	43.00000	19.50000	-0.36684	19.083	0.0	0.0
	20.00000	43.00000	19.50000	-0.36063	19.083	0.0	0.0
	21.00000	43.00000	19.50000	-0.35311	19.083	0.0	0.0
	22.00000	43.00000	19.50000	-0.34434	19.083	0.0	0.0
	23.00000	43.00000	19.50000	-0.33437	19.083	0.0	0.0
	24.00000	43.00000	19.50000	-0.32326	19.083	0.0	0.0
	25.00000	43.00000	19.50000	-0.31108	19.083	0.0	0.0
	26.00000	43.00000	19.50000	-0.29791	19.083	0.0	0.0
	27.00000	43.00000	19.50000	-0.28381	19.083	0.0	0.0
	28.00000	43.00000	19.50000	-0.26889	19.083	0.0	0.0
	29.00000	43.00000	19.50000	-0.25324	19.083	0.0	0.0
	30.00000	43.00000	19.50000	-0.23699	19.083	0.0	0.0
	31.00000	43.00000	19.50000	-0.22027	19.083	0.0	0.0
	32.00000	43.00000	19.50000	-0.20321	19.083	0.0	0.0
	33.00000	43.00000	19.50000	-0.18596	19.083	0.0	0.0
	34.00000	43.00000	19.50000	-0.16868	19.083	0.0	0.0
	35.00000	43.00000	19.50000	-0.15152	19.083	0.0	0.0
	36.00000	43.00000	19.50000	-0.13463	19.083	0.0	0.0
	37.00000	43.00000	19.50000	-0.11815	19.083	0.0	0.0
	38.00000	43.00000	19.50000	-0.10221	19.083	0.0	0.0
	39.00000	43.00000	19.50000	-0.08626	19.083	0.0	0.0
	40.00000	43.00000	19.50000	-0.072391	19.083	0.0	0.0
	41.00000	43.00000	19.50000	-0.058681	19.083	0.0	0.0
	42.00000	43.00000	19.50000	-0.045849	19.083	0.0	0.0
	43.00000	43.00000	19.50000	-0.033931	19.083	0.0	0.0
	44.00000	43.00000	19.50000	-0.022943	19.083	0.0	0.0
	45.00000	43.00000	19.50000	-0.012885	19.083	0.0	0.0
	46.00000	43.00000	19.50000	-0.0037430	19.083	0.0	0.0
	47.00000	43.00000	19.50000	0.0045090	19.083	0.0	0.0
	48.00000	43.00000	19.50000	0.011906	19.083	0.0	0.0
	49.00000	43.00000	19.50000	0.018491	19.083	0.0	0.0
	50.00000	43.00000	19.50000	0.024310	19.083	0.0	0.0
	51.00000	43.00000	19.50000	0.029414	19.083	0.0	0.0
	52.00000	43.00000	19.50000	0.033854	19.083	0.0	0.0
	53.00000	43.00000	19.50000	0.037683	19.083	0.0	0.0
	54.00000	43.00000	19.50000	0.040951	19.083	0.0	0.0
	55.00000	43.00000	19.50000	0.043710	19.083	0.0	0.0
	-25.00000	44.00000	19.50000	0.044180	19.083	0.0	0.0
	-24.00000	44.00000	19.50000	0.042488	19.083	0.0	0.0
	-23.00000	44.00000	19.50000	0.040438	19.083	0.0	0.0
	-22.00000	44.00000	19.50000	0.037994	19.083	0.0	0.0
	-21.00000	44.00000	19.50000	0.035116	19.083	0.0	0.0
	-20.00000	44.00000	19.50000	0.031764	19.083	0.0	0.0
	-19.00000	44.00000	19.50000	0.027896	19.083	0.0	0.0
	-18.00000	44.00000	19.50000	0.023469	19.083	0.0	0.0
	-17.00000	44.00000	19.50000	0.018441	19.083	0.0	0.0
	-16.00000	44.00000	19.50000	0.012771	19.083	0.0	0.0
	-15.00000	44.00000	19.50000	0.0064178	19.083	0.0	0.0
	-14.00000	44.00000	19.50000	-653.69E-6	19.083	0.0	0.0
	-13.00000	44.00000	19.50000	-0.0084750	19.083	0.0	0.0
	-12.00000	44.00000	19.50000	-0.017071	19.083	0.0	0.0
	-11.00000	44.00000	19.50000	-0.026456	19.083	0.0	0.0
	-10.00000	44.00000	19.50000	-0.036637	19.083	0.0	0.0
	-9.00000	44.00000	19.50000	-0.047606	19.083	0.0	0.0
	-8.00000	44.00000	19.50000	-0.059341	19.083	0.0	0.0
	-7.00000	44.00000	19.50000	-0.071803	19.083	0.0	0.0
	-6.00000	44.00000	19.50000	-0.084935	19.083	0.0	0.0
	-5.00000	44.00000	19.50000	-0.098663	19.083	0.0	0.0
	-4.00000	44.00000	19.50000	-0.11289	19.083	0.0	0.0
	-3.00000	44.00000	19.50000	-0.12751	19.083	0.0	0.0
	-2.00000	44.00000	19.50000	-0.14239	19.083	0.0	0.0
	-1.00000	44.00000	19.50000	-0.15740	19.083	0.0	0.0
	0.00000	44.00000	19.50000	-0.17237	19.083	0.0	0.0
	1.00000	44.00000	19.50000	-0.18716	19.083	0.0	0.0
	2.00000	44.00000	19.50000	-0.20161	19.083	0.0	0.0
	3.00000	44.00000	19.50000	-0.21557	19.083	0.0	0.0
	4.00000	44.00000	19.50000	-0.22887	19.083	0.0	0.0
	5.00000	44.00000	19.50000	-0.24141	19.083	0.0	0.0
	6.00000	44.00000	19.50000	-0.25304	19.083	0.0	0.0
	7.00000	44.00000	19.50000	-0.26367	19.083	0.0	0.0
	8.00000	44.00000	19.50000	-0.27320	19.083	0.0	0.0
	9.00000	44.00000	19.50000	-0.28158	19.083	0.0	0.0
	10.00000	44.00000	19.50000	-0.28873	19.083	0.0	0.0
	11.00000	44.00000	19.50000	-0.29463	19.083	0.0	0.0
	12.00000	44.00000	19.50000	-0.29926	19.083	0.0	0.0
	13.00000	44.00000	19.50000	-0.30259	19.083	0.0	0.0
	14.00000	44.00000	19.50000	-0.30464	19.083	0.0	0.0
	15.00000	44.00000	19.50000	-0.30541	19.083	0.0	0.0
	16.00000	44.00000	19.50000	-0.30492	19.083	0.0	0.0
	17.00000	44.00000	19.50000	-0.30319	19.083	0.0	0.0
	18.00000	44.00000	19.50000	-0.30027	19.083	0.0	0.0
	19.00000	44.00000	19.50000	-0.29617	19.083	0.0	0.0
	20.00000	44.00000	19.50000	-0.29093	19.083	0.0	0.0
	21.00000	44.00000	19.50000	-0.28461	19.083	0.0	0.0
	22.00000	44.00000	19.50000	-0.27725	19.083	0.0	0.0
	23.00000	44.00000	19.50000	-0.26888	19.083	0.0	0.0
	24.00000	44.00000	19.50000	-0.25958	19.083	0.0	0.0
	25.00000	44.00000	19.50000	-0.24938	19.083	0.0	0.0
	26.00000	44.00000	19.50000	-0.23837	19.083	0.0	0.0
	27.00000	44.00000	19.50000	-0.22661	19.083	0.0	0.0
	28.00000	44.00000	19.50000	-0.21418	19.083	0.0	0.0
	29.00000	44.00000	19.50000	-0.20117	19.083	0.0	0.0
	30.00000	44.00000	19.50000	-0.18768	19.083	0.0	0.0
	31.00000	44.00000	19.50000	-0.17382	19.083	0.0	0.0
	32.00000	44.00000	19.50000	-0.15969	19.083	0.0	0.0
	33.00000	44.00000	19.50000	-0.14542	19.083	0.0	0.0
	34.00000	44.00000	19.50000	-0.13113	19.083	0.0	0.0
	35.00000	44.00000	19.50000	-0.11694	19.083	0.0	0.0
	36.00000	44.00000	19.50000	-0.10297	19.083	0.0	0.0
	37.00000	44.00000	19.50000	-0.089339	19.083	0.0	0.0
	38.00000	44.00000	19.50000	-0.076142	19.083	0.0	0.0
	39.00000	44.00000	19.50000	-0.063472	19.083	0.0	0.0
	40.00000	44.00000	19.50000	-0.051407	19.083	0.0	0.0
	41.00000	44.00000	19.50000	-0.040008	19.083	0.0	0.0
	42.00000	44.00000	19.50000	-0.029321	19.083	0.0	0.0
	43.00000	44.00000	19.50000	-0.019378	19.083	0.0	0.0
	44.00000	44.00000	19.50000	-0.010194	19.083	0.0	0.0
	45.00000	44.00000	19.50000	-0.0017736	19.083	0.0	0.0
	46.00000	44.00000	19.50000	0.0058923	19.083	0.0	0.0
	47.00000	44.00000	19.50000	0.012821	19.083	0.0	0.0
	48.00000	44.00000	19.50000	0.019039	19.083	0.0	0.0
	49.00000	44.00000	19.50000	0.024576	19.083	0.0	0.0
	50.00000	44.00000	19.50000	0.029471	19.083	0.0	0.0
	51.00000	44.00000	19.50000	0.033762	19.083	0.0	0.0
	52.00000	44.00000	19.50000	0.037490	19.083	0.0	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X	Location	Displacement	Stresses				
	[m]	[m]	Z [Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	53.00000	44.00000	19.50000	0.040697	19.083	0.0	0.0	0.0
	54.00000	44.00000	19.50000	0.043425	19.083	0.0	0.0	0.0
	55.00000	44.00000	19.50000	0.045716	19.083	0.0	0.0	0.0
	-25.00000	45.00000	19.50000	0.045372	19.083	0.0	0.0	0.0
	-24.00000	45.00000	19.50000	0.043985	19.083	0.0	0.0	0.0
	-23.00000	45.00000	19.50000	0.042288	19.083	0.0	0.0	0.0
	-22.00000	45.00000	19.50000	0.040249	19.083	0.0	0.0	0.0
	-21.00000	45.00000	19.50000	0.037373	19.083	0.0	0.0	0.0
	-20.00000	45.00000	19.50000	0.035016	19.083	0.0	0.0	0.0
	-19.00000	45.00000	19.50000	0.031754	19.083	0.0	0.0	0.0
	-18.00000	45.00000	19.50000	0.028016	19.083	0.0	0.0	0.0
	-17.00000	45.00000	19.50000	0.023768	19.083	0.0	0.0	0.0
	-16.00000	45.00000	19.50000	0.018977	19.083	0.0	0.0	0.0
	-15.00000	45.00000	19.50000	0.013612	19.083	0.0	0.0	0.0
	-14.00000	45.00000	19.50000	0.0076456	19.083	0.0	0.0	0.0
	-13.00000	45.00000	19.50000	0.0010555	19.083	0.0	0.0	0.0
	-12.00000	45.00000	19.50000	-0.0061754	19.083	0.0	0.0	0.0
	-11.00000	45.00000	19.50000	-0.014057	19.083	0.0	0.0	0.0
	-10.00000	45.00000	19.50000	-0.022589	19.083	0.0	0.0	0.0
	-9.00000	45.00000	19.50000	-0.031763	19.083	0.0	0.0	0.0
	-8.00000	45.00000	19.50000	-0.041556	19.083	0.0	0.0	0.0
	-7.00000	45.00000	19.50000	-0.051513	19.083	0.0	0.0	0.0
	-6.00000	45.00000	19.50000	-0.062845	19.083	0.0	0.0	0.0
	-5.00000	45.00000	19.50000	-0.074230	19.083	0.0	0.0	0.0
	-4.00000	45.00000	19.50000	-0.086009	19.083	0.0	0.0	0.0
	-3.00000	45.00000	19.50000	-0.098091	19.083	0.0	0.0	0.0
	-2.00000	45.00000	19.50000	-0.11037	19.083	0.0	0.0	0.0
	-1.00000	45.00000	19.50000	-0.12274	19.083	0.0	0.0	0.0
	0.00000	45.00000	19.50000	-0.13508	19.083	0.0	0.0	0.0
	1.00000	45.00000	19.50000	-0.14725	19.083	0.0	0.0	0.0
	2.00000	45.00000	19.50000	-0.15914	19.083	0.0	0.0	0.0
	3.00000	45.00000	19.50000	-0.17063	19.083	0.0	0.0	0.0
	4.00000	45.00000	19.50000	-0.18158	19.083	0.0	0.0	0.0
	5.00000	45.00000	19.50000	-0.19190	19.083	0.0	0.0	0.0
	6.00000	45.00000	19.50000	-0.20149	19.083	0.0	0.0	0.0
	7.00000	45.00000	19.50000	-0.21026	19.083	0.0	0.0	0.0
	8.00000	45.00000	19.50000	-0.21813	19.083	0.0	0.0	0.0
	9.00000	45.00000	19.50000	-0.22504	19.083	0.0	0.0	0.0
	10.00000	45.00000	19.50000	-0.23096	19.083	0.0	0.0	0.0
	11.00000	45.00000	19.50000	-0.23584	19.083	0.0	0.0	0.0
	12.00000	45.00000	19.50000	-0.23966	19.083	0.0	0.0	0.0
	13.00000	45.00000	19.50000	-0.24241	19.083	0.0	0.0	0.0
	14.00000	45.00000	19.50000	-0.24409	19.083	0.0	0.0	0.0
	15.00000	45.00000	19.50000	-0.24471	19.083	0.0	0.0	0.0
	16.00000	45.00000	19.50000	-0.24427	19.083	0.0	0.0	0.0
	17.00000	45.00000	19.50000	-0.24280	19.083	0.0	0.0	0.0
	18.00000	45.00000	19.50000	-0.24033	19.083	0.0	0.0	0.0
	19.00000	45.00000	19.50000	-0.23687	19.083	0.0	0.0	0.0
	20.00000	45.00000	19.50000	-0.23247	19.083	0.0	0.0	0.0
	21.00000	45.00000	19.50000	-0.22716	19.083	0.0	0.0	0.0
	22.00000	45.00000	19.50000	-0.22098	19.083	0.0	0.0	0.0
	23.00000	45.00000	19.50000	-0.21396	19.083	0.0	0.0	0.0
	24.00000	45.00000	19.50000	-0.20617	19.083	0.0	0.0	0.0
	25.00000	45.00000	19.50000	-0.19765	19.083	0.0	0.0	0.0
	26.00000	45.00000	19.50000	-0.18845	19.083	0.0	0.0	0.0
	27.00000	45.00000	19.50000	-0.17865	19.083	0.0	0.0	0.0
	28.00000	45.00000	19.50000	-0.16830	19.083	0.0	0.0	0.0
	29.00000	45.00000	19.50000	-0.15748	19.083	0.0	0.0	0.0
	30.00000	45.00000	19.50000	-0.14628	19.083	0.0	0.0	0.0
	31.00000	45.00000	19.50000	-0.13479	19.083	0.0	0.0	0.0
	32.00000	45.00000	19.50000	-0.12308	19.083	0.0	0.0	0.0
	33.00000	45.00000	19.50000	-0.11127	19.083	0.0	0.0	0.0
	34.00000	45.00000	19.50000	-0.099450	19.083	0.0	0.0	0.0
	35.00000	45.00000	19.50000	-0.087717	19.083	0.0	0.0	0.0
	36.00000	45.00000	19.50000	-0.076166	19.083	0.0	0.0	0.0
	37.00000	45.00000	19.50000	-0.064887	19.083	0.0	0.0	0.0
	38.00000	45.00000	19.50000	-0.053964	19.083	0.0	0.0	0.0
	39.00000	45.00000	19.50000	-0.043468	19.083	0.0	0.0	0.0
	40.00000	45.00000	19.50000	-0.033463	19.083	0.0	0.0	0.0
	41.00000	45.00000	19.50000	-0.024000	19.083	0.0	0.0	0.0
	42.00000	45.00000	19.50000	-0.015116	19.083	0.0	0.0	0.0
	43.00000	45.00000	19.50000	-0.0068387	19.083	0.0	0.0	0.0
	44.00000	45.00000	19.50000	815.82E-6	19.083	0.0	0.0	0.0
	45.00000	45.00000	19.50000	0.0078427	19.083	0.0	0.0	0.0
	46.00000	45.00000	19.50000	0.014246	19.083	0.0	0.0	0.0
	47.00000	45.00000	19.50000	0.020308	19.083	0.0	0.0	0.0
	48.00000	45.00000	19.50000	0.025238	19.083	0.0	0.0	0.0
	49.00000	45.00000	19.50000	0.029868	19.083	0.0	0.0	0.0
	50.00000	45.00000	19.50000	0.033958	19.083	0.0	0.0	0.0
	51.00000	45.00000	19.50000	0.037539	19.083	0.0	0.0	0.0
	52.00000	45.00000	19.50000	0.040643	19.083	0.0	0.0	0.0
	53.00000	45.00000	19.50000	0.043303	19.083	0.0	0.0	0.0
	54.00000	45.00000	19.50000	0.045554	19.083	0.0	0.0	0.0
	55.00000	45.00000	19.50000	0.047430	19.083	0.0	0.0	0.0
Grid 2	-25.00000	-20.00000	15.00000	0.046389	14.760	-1.5598E-6	-0.044286	0.0
	-24.00000	-20.00000	15.00000	0.045276	14.760	-1.7022E-6	-0.044444	0.0
	-23.00000	-20.00000	15.00000	0.043894	14.760	-1.8588E-6	-0.046716	0.0
	-22.00000	-20.00000	15.00000	0.042217	14.760	-2.0310E-6	-0.049119	0.0
	-21.00000	-20.00000	15.00000	0.040219	14.760	-2.2202E-6	-0.051656	0.0
	-20.00000	-20.00000	15.00000	0.037870	14.760	-2.4282E-6	-0.054332	0.0
	-19.00000	-20.00000	15.00000	0.035144	14.760	-2.6565E-6	-0.057150	0.0
	-18.00000	-20.00000	15.00000	0.032013	14.760	-2.9069E-6	-0.060119	0.0
	-17.00000	-20.00000	15.00000	0.028449	14.760	-3.1814E-6	-0.063239	0.0
	-16.00000	-20.00000	15.00000	0.024427	14.760	-3.4816E-6	-0.066513	0.0
	-15.00000	-20.00000	15.00000	0.019922	14.760	-3.8094E-6	-0.069945	0.0
	-14.00000	-20.00000	15.00000	0.014915	14.760	-4.1664E-6	-0.073533	0.0
	-13.00000	-20.00000	15.00000	0.0093884	14.760	-4.5545E-6	-0.077276	0.0
	-12.00000	-20.00000	15.00000	0.0033309	14.760	-4.9746E-6	-0.081169	0.0
	-11.00000	-20.00000	15.00000	-0.0032626	14.760	-5.4277E-6	-0.085207	0.0
	-10.00000	-20.00000	15.00000	-0.010390	14.760	-5.9142E-6	-0.089379	0.0
	-9.00000	-20.00000	15.00000	-0.018004	14.760	-6.4337E-6	-0.093672	0.0
	-8.00000	-20.00000	15.00000	-0.026192	14.760	-6.9853E-6	-0.098069	0.0
	-7.00000	-20.00000	15.00000	-0.034815	14.760	-7.5669E-6	-0.10255	0.0
	-6.00000	-20.00000	15.00000	-0.043867	14.760	-8.1755E-6	-0.10709	0.0
	-5.00000	-20.00000	15.00000	-0.053296	14.760	-8.8069E-6	-0.11166	0.0
	-4.00000	-20.00000	15.00000	-0.063035	14.760	-9.4588E-6	-0.11622	0.0
	-3.00000	-20.00000	15.00000	-0.073012	14.760	-10.116E-6	-0.12074	0.0
	-2.00000	-20.00000	15.00000	-0.083141	14.760	-10.779E-6	-0.12517	0.0
	-1.00000	-20.00000	15.00000	-0.093332	14.760	-11.437E-6	-0.12948	0.0
	0.00000	-20.00000	15.00000	-0.10349	14.760	-12.080E-6	-0.13362	0.0
	1.00000	-20.00000	15.00000	-0.11351	14.760	-12.700E-6	-0.13753	0.0
	2.00000	-20.00000	15.00000					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	21.00000	-20.00000	15.00000	-0.17892	14.760	-11.437E-6	-0.12948
	22.00000	-20.00000	15.00000	-0.17374	14.760	-10.779E-6	-0.12517
	23.00000	-20.00000	15.00000	-0.16786	14.760	-10.116E-6	-0.12074
	24.00000	-20.00000	15.00000	-0.16135	14.760	-9.4558E-6	-0.11622
	25.00000	-20.00000	15.00000	-0.15423	14.760	-8.8069E-6	-0.11166
	26.00000	-20.00000	15.00000	-0.14635	14.760	-8.1755E-6	-0.10709
	27.00000	-20.00000	15.00000	-0.13838	14.760	-7.5669E-6	-0.10255
	28.00000	-20.00000	15.00000	-0.12977	14.760	-6.9853E-6	-0.098069
	29.00000	-20.00000	15.00000	-0.12079	14.760	-6.4337E-6	-0.093672
	30.00000	-20.00000	15.00000	-0.11149	14.760	-5.9142E-6	-0.089379
	31.00000	-20.00000	15.00000	-0.10196	14.760	-5.4277E-6	-0.085207
	32.00000	-20.00000	15.00000	-0.092267	14.760	-4.9746E-6	-0.081169
	33.00000	-20.00000	15.00000	-0.082494	14.760	-4.5545E-6	-0.077276
	34.00000	-20.00000	15.00000	-0.072718	14.760	-4.1666E-6	-0.073533
	35.00000	-20.00000	15.00000	-0.063018	14.760	-3.8094E-6	-0.069945
	36.00000	-20.00000	15.00000	-0.053471	14.760	-3.4816E-6	-0.066513
	37.00000	-20.00000	15.00000	-0.044147	14.760	-3.1814E-6	-0.063239
	38.00000	-20.00000	15.00000	-0.035114	14.760	-2.9069E-6	-0.060119
	39.00000	-20.00000	15.00000	-0.026430	14.760	-2.6565E-6	-0.057151
	40.00000	-20.00000	15.00000	-0.018146	14.760	-2.4282E-6	-0.054332
	41.00000	-20.00000	15.00000	-0.010304	14.760	-2.2202E-6	-0.051650
	42.00000	-20.00000	15.00000	-0.0029361	14.760	-2.0310E-6	-0.049119
	43.00000	-20.00000	15.00000	0.0039342	14.760	-1.8588E-6	-0.046716
	44.00000	-20.00000	15.00000	0.010293	14.760	-1.7022E-6	-0.044440
	45.00000	-20.00000	15.00000	0.016134	14.760	-1.5598E-6	-0.042286
	46.00000	-20.00000	15.00000	0.021458	14.760	-1.4303E-6	-0.040248
	47.00000	-20.00000	15.00000	0.026275	14.760	-1.3125E-6	-0.038320
	48.00000	-20.00000	15.00000	0.030598	14.760	-1.2053E-6	-0.036496
	49.00000	-20.00000	15.00000	0.034444	14.760	-1.1077E-6	-0.034772
	50.00000	-20.00000	15.00000	0.037836	14.760	-1.0188E-6	-0.033142
	51.00000	-20.00000	15.00000	0.040797	14.760	0.0	-0.031600
	52.00000	-20.00000	15.00000	0.043355	14.760	0.0	-0.030141
	53.00000	-20.00000	15.00000	0.045535	14.760	0.0	-0.028762
	54.00000	-20.00000	15.00000	0.047367	14.760	0.0	-0.027457
	55.00000	-20.00000	15.00000	0.048876	14.760	0.0	-0.026222
	-25.00000	-19.00000	15.00000	0.045382	14.760	-1.6838E-6	-0.044202
	-24.00000	-19.00000	15.00000	0.043996	14.760	-1.8428E-6	-0.046526
	-23.00000	-19.00000	15.00000	0.042300	14.760	-2.0183E-6	-0.048988
	-22.00000	-19.00000	15.00000	0.040261	14.760	-2.2121E-6	-0.051595
	-21.00000	-19.00000	15.00000	0.037849	14.760	-2.4262E-6	-0.054354
	-20.00000	-19.00000	15.00000	0.035030	14.760	-2.6625E-6	-0.057270
	-19.00000	-19.00000	15.00000	0.031769	14.760	-2.9233E-6	-0.060360
	-18.00000	-19.00000	15.00000	0.028032	14.760	-3.2109E-6	-0.063619
	-17.00000	-19.00000	15.00000	0.023784	14.760	-3.5278E-6	-0.067058
	-16.00000	-19.00000	15.00000	0.018994	14.760	-3.8766E-6	-0.070680
	-15.00000	-19.00000	15.00000	0.013629	14.760	-4.2597E-6	-0.074499
	-14.00000	-19.00000	15.00000	0.0076642	14.760	-4.6796E-6	-0.078490
	-13.00000	-19.00000	15.00000	0.0010751	14.760	-5.1388E-6	-0.082678
	-12.00000	-19.00000	15.00000	-0.0061548	14.760	-5.6392E-6	-0.087054
	-11.00000	-19.00000	15.00000	-0.014035	14.760	-6.1825E-6	-0.091610
	-10.00000	-19.00000	15.00000	-0.022566	14.760	-6.7697E-6	-0.096337
	-9.00000	-19.00000	15.00000	-0.031739	14.760	-7.4011E-6	-0.10122
	-8.00000	-19.00000	15.00000	-0.041530	14.760	-8.0759E-6	-0.10625
	-7.00000	-19.00000	15.00000	-0.051906	14.760	-8.7922E-6	-0.11139
	-6.00000	-19.00000	15.00000	-0.062818	14.760	-9.5464E-6	-0.11662
	-5.00000	-19.00000	15.00000	-0.074201	14.760	-10.3344E-6	-0.12190
	-4.00000	-19.00000	15.00000	-0.085979	14.760	-11.147E-6	-0.12720
	-3.00000	-19.00000	15.00000	-0.098060	14.760	-11.978E-6	-0.13246
	-2.00000	-19.00000	15.00000	-0.11034	14.760	-12.818E-6	-0.13765
	-1.00000	-19.00000	15.00000	-0.12271	14.760	-13.654E-6	-0.14270
	0.00000	-19.00000	15.00000	-0.13504	14.760	-14.475E-6	-0.14750
	1.00000	-19.00000	15.00000	-0.14722	14.760	-15.267E-6	-0.15218
	2.00000	-19.00000	15.00000	-0.15911	14.760	-16.017E-6	-0.15649
	3.00000	-19.00000	15.00000	-0.17059	14.760	-16.714E-6	-0.16045
	4.00000	-19.00000	15.00000	-0.18154	14.760	-17.344E-6	-0.16399
	5.00000	-19.00000	15.00000	-0.19186	14.760	-17.896E-6	-0.16707
	6.00000	-19.00000	15.00000	-0.20145	14.760	-18.362E-6	-0.16966
	7.00000	-19.00000	15.00000	-0.21021	14.760	-18.732E-6	-0.17171
	8.00000	-19.00000	15.00000	-0.21809	14.760	-19.001E-6	-0.17320
	9.00000	-19.00000	15.00000	-0.22500	14.760	-19.164E-6	-0.17410
	10.00000	-19.00000	15.00000	-0.23092	14.760	-19.219E-6	-0.17440
	11.00000	-19.00000	15.00000	-0.23579	14.760	-19.164E-6	-0.17410
	12.00000	-19.00000	15.00000	-0.23962	14.760	-19.001E-6	-0.17320
	13.00000	-19.00000	15.00000	-0.24237	14.760	-18.732E-6	-0.17171
	14.00000	-19.00000	15.00000	-0.24405	14.760	-18.362E-6	-0.16966
	15.00000	-19.00000	15.00000	-0.24467	14.760	-17.896E-6	-0.16707
	16.00000	-19.00000	15.00000	-0.24423	14.760	-17.344E-6	-0.16399
	17.00000	-19.00000	15.00000	-0.24277	14.760	-16.714E-6	-0.16045
	18.00000	-19.00000	15.00000	-0.24029	14.760	-16.017E-6	-0.15649
	19.00000	-19.00000	15.00000	-0.23684	14.760	-15.267E-6	-0.15218
	20.00000	-19.00000	15.00000	-0.23244	14.760	-14.475E-6	-0.14750
	21.00000	-19.00000	15.00000	-0.22713	14.760	-13.654E-6	-0.14270
	22.00000	-19.00000	15.00000	-0.22094	14.760	-12.818E-6	-0.13765
	23.00000	-19.00000	15.00000	-0.21393	14.760	-11.978E-6	-0.13246
	24.00000	-19.00000	15.00000	-0.20614	14.760	-11.147E-6	-0.12720
	25.00000	-19.00000	15.00000	-0.19762	14.760	-10.3344E-6	-0.12190
	26.00000	-19.00000	15.00000	-0.18843	14.760	-9.5464E-6	-0.11662
	27.00000	-19.00000	15.00000	-0.17862	14.760	-8.7922E-6	-0.11139
	28.00000	-19.00000	15.00000	-0.16827	14.760	-8.0759E-6	-0.10625
	29.00000	-19.00000	15.00000	-0.15746	14.760	-7.4011E-6	-0.10122
	30.00000	-19.00000	15.00000	-0.14626	14.760	-6.7697E-6	-0.096337
	31.00000	-19.00000	15.00000	-0.13476	14.760	-6.1825E-6	-0.091610
	32.00000	-19.00000	15.00000	-0.12306	14.760	-5.6392E-6	-0.087054
	33.00000	-19.00000	15.00000	-0.11125	14.760	-5.1388E-6	-0.082678
	34.00000	-19.00000	15.00000	-0.099432	14.760	-4.6796E-6	-0.078490
	35.00000	-19.00000	15.00000	-0.087639	14.760	-4.2597E-6	-0.074499
	36.00000	-19.00000	15.00000	-0.076149	14.760	-3.8766E-6	-0.070680
	37.00000	-19.00000	15.00000	-0.064872	14.760	-3.5278E-6	-0.067058
	38.00000	-19.00000	15.00000	-0.053949	14.760	-3.2109E-6	-0.063619
	39.00000	-19.00000	15.00000	-0.043454	14.760	-2.9233E-6	-0.060360
	40.00000	-19.00000	15.00000	-0.033450	14.760	-2.6625E-6	-0.057270
	41.00000	-19.00000	15.00000	-0.023987	14.760	-2.4262E-6	-0.054354
	42.00000	-19.00000	15.00000	-0.015103	14.760	-2.2121E-6	-0.051595
	43.00000	-19.00000	15.00000	-0.0068270	14.760	-2.0183E-6	-0.048988
	44.00000	-19.00000	15.00000	826.90E-6	14.760	-1.8428E-6	-0.046526
	45.00000	-19.00000	15.00000	0.0078532	14.760	-1.6838E-6	-0.044202
	46.00000	-19.00000	15.00000	0.014256	14.760	-1.5399E-6	-0.042011
	47.00000	-19.00000	15.00000	0.020048	14.760	-1.4094E-6	-0.039942
	48.00000	-19.00000	15.00000	0.025247	14.760	-1.2911E-6	-0.037990
	49.00000	-19.00000	15.00000	0.029877	14.760	-1.1838E-6	-0.036149
	50.00000	-19.00000	15.00000	0.033987	14.760	-1.0863E-6	-0.034419
	51.00000	-19.00000	15.00000	0.037547	14.760	0.0	-0.032771
	52.00000	-19.00000	15.00000	0.040650	14.760	0.0	-0.031223
	53.00000	-19.00000	15.00000	0.043310	14.760	0.0	-0.029761
	54.00000	-19.00000	15.00000	0.045561	14.760	0.0	-0.028381
	55.00000	-19.00000	15.00000	0.047436	14.760	0.0	-0.027078
	-25.00000	-18.00000	15.00000	0.044191	14.760	-1.8172E-6	-0.046200
	-24.00000	-18.00000	15.00000	0.042499	14.760	-1.9945E-6	-0.048705
	-23.00000	-18.00000	15.00000	0.040450	14.760	-2.1912E-6	-0.051367
	-22.00000	-18.00000	15.00000	0.038007	14.760	-2.4094E-6	-0.054193
	-21.00000	-18.00000	15.00000	0.035129	14.760	-2.6515E-6	-0.057190
	-20.00000	-18.00000	15.00000	0.031778	14.760	-2.9201E-6	-0.060381
	-19.00000	-18.00000	15.00000	0.027911	14.760	-3.2182E-6	-0.063760
	-18.00000	-18.00000	15.00000	0.023			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-11.00000	-18.00000	15.00000	-0.026433	14.760	-7.0611E-6	-0.098613
	-10.00000	-18.00000	15.00000	-0.036613	14.760	-7.7732E-6	-0.10398
	-9.00000	-18.00000	15.00000	-0.047581	14.760	-8.5446E-6	-0.10956
	-8.00000	-18.00000	15.00000	-0.059314	14.760	-9.3750E-6	-0.11532
	-7.00000	-18.00000	15.00000	-0.071774	14.760	-10.263E-6	-0.12124
	-6.00000	-18.00000	15.00000	-0.084905	14.760	-11.204E-6	-0.12729
	-5.00000	-18.00000	15.00000	-0.098631	14.760	-12.193E-6	-0.13343
	-4.00000	-18.00000	15.00000	-0.11286	14.760	-13.222E-6	-0.13960
	-3.00000	-18.00000	15.00000	-0.12748	14.760	-14.279E-6	-0.14577
	-2.00000	-18.00000	15.00000	-0.14236	14.760	-15.351E-6	-0.15187
	-1.00000	-18.00000	15.00000	-0.15736	14.760	-16.424E-6	-0.15782
	0.00000	-18.00000	15.00000	-0.17234	14.760	-17.481E-6	-0.16357
	1.00000	-18.00000	15.00000	-0.18712	14.760	-18.504E-6	-0.16905
	2.00000	-18.00000	15.00000	-0.20157	14.760	-19.476E-6	-0.17417
	3.00000	-18.00000	15.00000	-0.21552	14.760	-20.379E-6	-0.17888
	4.00000	-18.00000	15.00000	-0.22883	14.760	-21.196E-6	-0.18310
	5.00000	-18.00000	15.00000	-0.24136	14.760	-21.914E-6	-0.18678
	6.00000	-18.00000	15.00000	-0.25299	14.760	-22.518E-6	-0.18987
	7.00000	-18.00000	15.00000	-0.26362	14.760	-22.999E-6	-0.19232
	8.00000	-18.00000	15.00000	-0.27316	14.760	-23.348E-6	-0.19409
	9.00000	-18.00000	15.00000	-0.28153	14.760	-23.560E-6	-0.19517
	10.00000	-18.00000	15.00000	-0.28869	14.760	-23.631E-6	-0.19553
	11.00000	-18.00000	15.00000	-0.29459	14.760	-23.560E-6	-0.19517
	12.00000	-18.00000	15.00000	-0.29921	14.760	-23.348E-6	-0.19409
	13.00000	-18.00000	15.00000	-0.30255	14.760	-22.999E-6	-0.19232
	14.00000	-18.00000	15.00000	-0.30459	14.760	-22.518E-6	-0.18987
	15.00000	-18.00000	15.00000	-0.30537	14.760	-21.914E-6	-0.18678
	16.00000	-18.00000	15.00000	-0.30488	14.760	-21.196E-6	-0.18310
	17.00000	-18.00000	15.00000	-0.30315	14.760	-20.379E-6	-0.17888
	18.00000	-18.00000	15.00000	-0.30022	14.760	-19.476E-6	-0.17417
	19.00000	-18.00000	15.00000	-0.29613	14.760	-18.504E-6	-0.16905
	20.00000	-18.00000	15.00000	-0.29090	14.760	-17.481E-6	-0.16357
	21.00000	-18.00000	15.00000	-0.28458	14.760	-16.424E-6	-0.15782
	22.00000	-18.00000	15.00000	-0.27721	14.760	-15.351E-6	-0.15187
	23.00000	-18.00000	15.00000	-0.26885	14.760	-14.279E-6	-0.14577
	24.00000	-18.00000	15.00000	-0.25954	14.760	-13.222E-6	-0.13960
	25.00000	-18.00000	15.00000	-0.24935	14.760	-12.193E-6	-0.13343
	26.00000	-18.00000	15.00000	-0.23834	14.760	-11.204E-6	-0.12729
	27.00000	-18.00000	15.00000	-0.22658	14.760	-10.263E-6	-0.12124
	28.00000	-18.00000	15.00000	-0.21416	14.760	-9.3750E-6	-0.11532
	29.00000	-18.00000	15.00000	-0.20115	14.760	-8.5446E-6	-0.10956
	30.00000	-18.00000	15.00000	-0.18766	14.760	-7.7732E-6	-0.10398
	31.00000	-18.00000	15.00000	-0.17379	14.760	-7.0611E-6	-0.098613
	32.00000	-18.00000	15.00000	-0.15967	14.760	-6.4071E-6	-0.093461
	33.00000	-18.00000	15.00000	-0.14540	14.760	-5.8091E-6	-0.088536
	34.00000	-18.00000	15.00000	-0.13111	14.760	-5.2643E-6	-0.083842
	35.00000	-18.00000	15.00000	-0.11692	14.760	-4.7694E-6	-0.079378
	36.00000	-18.00000	15.00000	-0.10296	14.760	-4.3209E-6	-0.075144
	37.00000	-18.00000	15.00000	-0.089322	14.760	-3.9152E-6	-0.071133
	38.00000	-18.00000	15.00000	-0.076126	14.760	-3.5488E-6	-0.067341
	39.00000	-18.00000	15.00000	-0.063457	14.760	-3.2182E-6	-0.063847
	40.00000	-18.00000	15.00000	-0.051392	14.760	-2.9201E-6	-0.060381
	41.00000	-18.00000	15.00000	-0.039994	14.760	-2.6515E-6	-0.057195
	42.00000	-18.00000	15.00000	-0.029308	14.760	-2.4094E-6	-0.054193
	43.00000	-18.00000	15.00000	-0.019366	14.760	-2.1912E-6	-0.051367
	44.00000	-18.00000	15.00000	-0.010193	14.760	-1.9945E-6	-0.048703
	45.00000	-18.00000	15.00000	-0.0017626	14.760	-1.8172E-6	-0.046200
	46.00000	-18.00000	15.00000	0.0059027	14.760	-1.6572E-6	-0.043843
	47.00000	-18.00000	15.00000	0.012831	14.760	-1.5128E-6	-0.041624
	48.00000	-18.00000	15.00000	0.019048	14.760	-1.3824E-6	-0.039535
	49.00000	-18.00000	15.00000	0.024585	14.760	-1.2644E-6	-0.037565
	50.00000	-18.00000	15.00000	0.029480	14.760	-1.1578E-6	-0.035718
	51.00000	-18.00000	15.00000	0.033770	14.760	-1.0612E-6	-0.033975
	52.00000	-18.00000	15.00000	0.037498	14.760	0.0	-0.032332
	53.00000	-18.00000	15.00000	0.040705	14.760	0.0	-0.030785
	54.00000	-18.00000	15.00000	0.043432	14.760	0.0	-0.029322
	55.00000	-18.00000	15.00000	0.045722	14.760	0.0	-0.027951
	-25.00000	-17.00000	15.00000	0.042806	14.760	-1.9604E-6	-0.048277
	-24.00000	-17.00000	15.00000	0.040775	14.760	-2.1581E-6	-0.050977
	-23.00000	-17.00000	15.00000	0.038333	14.760	-2.3784E-6	-0.053853
	-22.00000	-17.00000	15.00000	0.035496	14.760	-2.6239E-6	-0.056916
	-21.00000	-17.00000	15.00000	0.032037	14.760	-2.8977E-6	-0.060183
	-20.00000	-17.00000	15.00000	0.028088	14.760	-3.2032E-6	-0.063659
	-19.00000	-17.00000	15.00000	0.023538	14.760	-3.5440E-6	-0.067359
	-18.00000	-17.00000	15.00000	0.018332	14.760	-3.9242E-6	-0.071296
	-17.00000	-17.00000	15.00000	0.012420	14.760	-4.3421E-6	-0.075480
	-16.00000	-17.00000	15.00000	0.0057466	14.760	-4.8206E-6	-0.079922
	-15.00000	-17.00000	15.00000	-0.0017374	14.760	-5.3466E-6	-0.084633
	-14.00000	-17.00000	15.00000	-0.010080	14.760	-5.9311E-6	-0.089620
	-13.00000	-17.00000	15.00000	-0.019324	14.760	-6.5793E-6	-0.094889
	-12.00000	-17.00000	15.00000	-0.029503	14.760	-7.2963E-6	-0.100404
	-11.00000	-17.00000	15.00000	-0.040644	14.760	-8.0867E-6	-0.10628
	-10.00000	-17.00000	15.00000	-0.052757	14.760	-8.9542E-6	-0.11239
	-9.00000	-17.00000	15.00000	-0.065841	14.760	-9.9015E-6	-0.11877
	-8.00000	-17.00000	15.00000	-0.079873	14.760	-10.930E-6	-0.12540
	-7.00000	-17.00000	15.00000	-0.094813	14.760	-12.038E-6	-0.13223
	-6.00000	-17.00000	15.00000	-0.11060	14.760	-13.222E-6	-0.13927
	-5.00000	-17.00000	15.00000	-0.12713	14.760	-14.475E-6	-0.14643
	-4.00000	-17.00000	15.00000	-0.14431	14.760	-15.787E-6	-0.15368
	-3.00000	-17.00000	15.00000	-0.16199	14.760	-17.145E-6	-0.16094
	-2.00000	-17.00000	15.00000	-0.18002	14.760	-18.529E-6	-0.16812
	-1.00000	-17.00000	15.00000	-0.19822	14.760	-19.921E-6	-0.17521
	0.00000	-17.00000	15.00000	-0.21640	14.760	-21.298E-6	-0.18205
	1.00000	-17.00000	15.00000	-0.23437	14.760	-22.634E-6	-0.18858
	2.00000	-17.00000	15.00000	-0.25193	14.760	-23.906E-6	-0.19471
	3.00000	-17.00000	15.00000	-0.26889	14.760	-25.089E-6	-0.20035
	4.00000	-17.00000	15.00000	-0.28505	14.760	-26.161E-6	-0.20541
	5.00000	-17.00000	15.00000	-0.30026	14.760	-27.101E-6	-0.20983
	6.00000	-17.00000	15.00000	-0.31437	14.760	-27.894E-6	-0.21354
	7.00000	-17.00000	15.00000	-0.32725	14.760	-28.524E-6	-0.21649
	8.00000	-17.00000	15.00000	-0.33879	14.760	-28.982E-6	-0.21869
	9.00000	-17.00000	15.00000	-0.34891	14.760	-29.260E-6	-0.21991
	10.00000	-17.00000	15.00000	-0.35755	14.760	-29.353E-6	-0.22035
	11.00000	-17.00000	15.00000	-0.36468	14.760	-29.260E-6	-0.21991
	12.00000	-17.00000	15.00000	-0.37026	14.760	-28.982E-6	-0.21862
	13.00000	-17.00000	15.00000	-0.37428	14.760	-28.524E-6	-0.21649
	14.00000	-17.00000	15.00000	-0.37676	14.760	-27.894E-6	-0.21354
	15.00000	-17.00000	15.00000	-0.37772	14.760	-27.101E-6	-0.20983
	16.00000	-17.00000	15.00000	-0.37716	14.760	-26.161E-6	-0.20541
	17.00000	-17.00000	15.00000	-0.37513	14.760	-25.089E-6	-0.20035
	18.00000	-17.00000	15.00000	-0.37166	14.760	-23.906E-6	-0.19471
	19.00000	-17.00000	15.00000	-0.36680	14.760	-22.634E-6	-0.18858
	20.00000	-17.00000	15.00000	-0.36059	14.760	-21.298E-6	-0.18205
	21.00000	-17.00000	15.00000	-0.35307	14.760	-19.921E-6	-0.17521
	22.00000	-17.00000	15.00000	-0.34430	14.760	-18.529E-6	-0.16814
	23.00000	-17.00000	15.00000	-0.33433	14.760	-17.145E-6	-0.15993
	24.00000	-17.00000	15.00000	-0.32323	14.760	-15.787E-6	-0.15368
	25.00000	-17.00000	15.00000	-0.31105	14.760	-14.475E-6	-0.14643
	26.00000	-17.00000	15.00000	-0.29787	14.760	-13.222E-6	-0.13927
	27.00000	-17.00000	15.00000	-0.28378	14.760	-12.038E-6	-0.13224
	28.00000	-17.00000	15.00000	-0.26886	14.760	-10.930E-6	-0.12540
	29.00000	-17.00000	15.00000	-0.25321	14.760	-9.9015E-6	-0.11877
	30.00000	-17.00000	15.00000	-0.23697	14.760	-8.9542E-6	-0.11239
	31.00000	-17.00000	15.00000	-0.22025	14.760	-8.0867E-6	-0.10628
	32.00000	-17.00000	15.00000	-0.			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location		Displacement		Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [m]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	38.00000	-17.00000	15.00000	-0.10219	14.760	-3.9242E-6	-0.071296	0.0
	39.00000	-17.00000	15.00000	-0.086910	14.760	-3.5440E-6	-0.067359	0.0
	40.00000	-17.00000	15.00000	-0.072376	14.760	-3.2032E-6	-0.063659	0.0
	41.00000	-17.00000	15.00000	-0.058666	14.760	-2.8977E-6	-0.060183	0.0
	42.00000	-17.00000	15.00000	-0.045835	14.760	-2.6239E-6	-0.056918	0.0
	43.00000	-17.00000	15.00000	-0.033918	14.760	-2.3784E-6	-0.053853	0.0
	44.00000	-17.00000	15.00000	-0.022931	14.760	-2.1581E-6	-0.050977	0.0
	45.00000	-17.00000	15.00000	-0.012874	14.760	-1.9604E-6	-0.048277	0.0
	46.00000	-17.00000	15.00000	-0.0037321	14.760	-1.7827E-6	-0.045743	0.0
	47.00000	-17.00000	15.00000	0.0045194	14.760	-1.6230E-6	-0.043364	0.0
	48.00000	-17.00000	15.00000	0.011916	14.760	-1.4793E-6	-0.041130	0.0
	49.00000	-17.00000	15.00000	0.018500	14.760	-1.3498E-6	-0.039032	0.0
	50.00000	-17.00000	15.00000	0.024319	14.760	-1.2331E-6	-0.037062	0.0
	51.00000	-17.00000	15.00000	0.029422	14.760	-1.1278E-6	-0.035210	0.0
	52.00000	-17.00000	15.00000	0.033862	14.760	-1.0326E-6	-0.033469	0.0
	53.00000	-17.00000	15.00000	0.037690	14.760	0.0	-0.031831	0.0
	54.00000	-17.00000	15.00000	0.040959	14.760	0.0	-0.030291	0.0
	55.00000	-17.00000	15.00000	0.043717	14.760	0.0	-0.028840	0.0
	-25.00000	-16.00000	15.00000	0.041220	14.760	-2.1137E-6	-0.050433	0.0
	-24.00000	-16.00000	15.00000	0.038813	14.760	-2.3341E-6	-0.053341	0.0
	-23.00000	-16.00000	15.00000	0.035935	14.760	-2.5806E-6	-0.056449	0.0
	-22.00000	-16.00000	15.00000	0.032534	14.760	-2.8568E-6	-0.059771	0.0
	-21.00000	-16.00000	15.00000	0.028554	14.760	-3.1664E-6	-0.063320	0.0
	-20.00000	-16.00000	15.00000	0.023935	14.760	-3.5136E-6	-0.067113	0.0
	-19.00000	-16.00000	15.00000	0.018616	14.760	-3.9033E-6	-0.071165	0.0
	-18.00000	-16.00000	15.00000	0.012532	14.760	-4.3407E-6	-0.075492	0.0
	-17.00000	-16.00000	15.00000	0.0056156	14.760	-4.8316E-6	-0.080110	0.0
	-16.00000	-16.00000	15.00000	-0.0021984	14.760	-5.3825E-6	-0.085034	0.0
	-15.00000	-16.00000	15.00000	-0.010976	14.760	-6.0002E-6	-0.090278	0.0
	-14.00000	-16.00000	15.00000	-0.020779	14.760	-6.6919E-6	-0.095856	0.0
	-13.00000	-16.00000	15.00000	-0.031664	14.760	-7.4652E-6	-0.101708	0.0
	-12.00000	-16.00000	15.00000	-0.043682	14.760	-8.3277E-6	-0.10805	0.0
	-11.00000	-16.00000	15.00000	-0.056868	14.760	-9.2866E-6	-0.11468	0.0
	-10.00000	-16.00000	15.00000	-0.071247	14.760	-10.348E-6	-0.12166	0.0
	-9.00000	-16.00000	15.00000	-0.086822	14.760	-11.518E-6	-0.12898	0.0
	-8.00000	-16.00000	15.00000	-0.10358	14.760	-12.800E-6	-0.13668	0.0
	-7.00000	-16.00000	15.00000	-0.12147	14.760	-14.193E-6	-0.14457	0.0
	-6.00000	-16.00000	15.00000	-0.14042	14.760	-15.695E-6	-0.15277	0.0
	-5.00000	-16.00000	15.00000	-0.16033	14.760	-17.298E-6	-0.16117	0.0
	-4.00000	-16.00000	15.00000	-0.18107	14.760	-18.989E-6	-0.16971	0.0
	-3.00000	-16.00000	15.00000	-0.20246	14.760	-20.751E-6	-0.17831	0.0
	-2.00000	-16.00000	15.00000	-0.22431	14.760	-22.560E-6	-0.18688	0.0
	-1.00000	-16.00000	15.00000	-0.24640	14.760	-24.387E-6	-0.19532	0.0
	0.00000	-16.00000	15.00000	-0.26849	14.760	-26.202E-6	-0.20352	0.0
	1.00000	-16.00000	15.00000	-0.29034	14.760	-27.968E-6	-0.21136	0.0
	2.00000	-16.00000	15.00000	-0.31169	14.760	-29.653E-6	-0.21874	0.0
	3.00000	-16.00000	15.00000	-0.33230	14.760	-31.222E-6	-0.22554	0.0
	4.00000	-16.00000	15.00000	-0.35194	14.760	-32.643E-6	-0.23166	0.0
	5.00000	-16.00000	15.00000	-0.37041	14.760	-33.890E-6	-0.23700	0.0
	6.00000	-16.00000	15.00000	-0.38752	14.760	-34.940E-6	-0.24149	0.0
	7.00000	-16.00000	15.00000	-0.40311	14.760	-35.775E-6	-0.24505	0.0
	8.00000	-16.00000	15.00000	-0.41707	14.760	-36.380E-6	-0.24763	0.0
	9.00000	-16.00000	15.00000	-0.42929	14.760	-36.747E-6	-0.24920	0.0
	10.00000	-16.00000	15.00000	-0.43972	14.760	-36.870E-6	-0.24972	0.0
	11.00000	-16.00000	15.00000	-0.44830	14.760	-36.747E-6	-0.24920	0.0
	12.00000	-16.00000	15.00000	-0.45501	14.760	-36.380E-6	-0.24763	0.0
	13.00000	-16.00000	15.00000	-0.45986	14.760	-35.775E-6	-0.24505	0.0
	14.00000	-16.00000	15.00000	-0.46285	14.760	-34.940E-6	-0.24149	0.0
	15.00000	-16.00000	15.00000	-0.46401	14.760	-33.890E-6	-0.23700	0.0
	16.00000	-16.00000	15.00000	-0.46337	14.760	-32.643E-6	-0.23166	0.0
	17.00000	-16.00000	15.00000	-0.46098	14.760	-31.222E-6	-0.22554	0.0
	18.00000	-16.00000	15.00000	-0.45687	14.760	-29.653E-6	-0.21874	0.0
	19.00000	-16.00000	15.00000	-0.45110	14.760	-27.968E-6	-0.21136	0.0
	20.00000	-16.00000	15.00000	-0.44372	14.760	-26.202E-6	-0.20352	0.0
	21.00000	-16.00000	15.00000	-0.43478	14.760	-24.387E-6	-0.19532	0.0
	22.00000	-16.00000	15.00000	-0.42435	14.760	-22.560E-6	-0.18688	0.0
	23.00000	-16.00000	15.00000	-0.41248	14.760	-20.751E-6	-0.17831	0.0
	24.00000	-16.00000	15.00000	-0.39923	14.760	-18.989E-6	-0.16971	0.0
	25.00000	-16.00000	15.00000	-0.38469	14.760	-17.298E-6	-0.16117	0.0
	26.00000	-16.00000	15.00000	-0.36893	14.760	-15.695E-6	-0.15277	0.0
	27.00000	-16.00000	15.00000	-0.35204	14.760	-14.193E-6	-0.14457	0.0
	28.00000	-16.00000	15.00000	-0.33412	14.760	-12.800E-6	-0.13668	0.0
	29.00000	-16.00000	15.00000	-0.31531	14.760	-11.518E-6	-0.12898	0.0
	30.00000	-16.00000	15.00000	-0.29574	14.760	-10.348E-6	-0.12166	0.0
	31.00000	-16.00000	15.00000	-0.27556	14.760	-9.2866E-6	-0.11468	0.0
	32.00000	-16.00000	15.00000	-0.25495	14.760	-8.3277E-6	-0.10805	0.0
	33.00000	-16.00000	15.00000	-0.23409	14.760	-7.4652E-6	-0.10178	0.0
	34.00000	-16.00000	15.00000	-0.21318	14.760	-6.6919E-6	-0.095856	0.0
	35.00000	-16.00000	15.00000	-0.19241	14.760	-6.0002E-6	-0.090278	0.0
	36.00000	-16.00000	15.00000	-0.17197	14.760	-5.3825E-6	-0.085034	0.0
	37.00000	-16.00000	15.00000	-0.15205	14.760	-4.8316E-6	-0.080110	0.0
	38.00000	-16.00000	15.00000	-0.13279	14.760	-4.3407E-6	-0.075492	0.0
	39.00000	-16.00000	15.00000	-0.11436	14.760	-3.9033E-6	-0.071165	0.0
	40.00000	-16.00000	15.00000	-0.096860	14.760	-3.5136E-6	-0.067113	0.0
	41.00000	-16.00000	15.00000	-0.080386	14.760	-3.1664E-6	-0.063320	0.0
	42.00000	-16.00000	15.00000	-0.065002	14.760	-2.8568E-6	-0.059771	0.0
	43.00000	-16.00000	15.00000	-0.050745	14.760	-2.5806E-6	-0.056449	0.0
	44.00000	-16.00000	15.00000	-0.037630	14.760	-2.3341E-6	-0.053341	0.0
	45.00000	-16.00000	15.00000	-0.025652	14.760	-2.1137E-6	-0.050433	0.0
	46.00000	-16.00000	15.00000	-0.014787	14.760	-1.9167E-6	-0.047710	0.0
	47.00000	-16.00000	15.00000	-0.0049984	14.760	-1.7402E-6	-0.045161	0.0
	48.00000	-16.00000	15.00000	0.0037623	14.760	-1.5820E-6	-0.042774	0.0
	49.00000	-16.00000	15.00000	0.011551	14.760	-1.4400E-6	-0.040537	0.0
	50.00000	-16.00000	15.00000	0.018429	14.760	-1.3124E-6	-0.038441	0.0
	51.00000	-16.00000	15.00000	0.024460	14.760	-1.1977E-6	-0.036475	0.0
	52.00000	-16.00000	15.00000	0.029708	14.760	-1.0943E-6	-0.034630	0.0
	53.00000	-16.00000	15.00000	0.034240	14.760	-1.0010E-6	-0.032899	0.0
	54.00000	-16.00000	15.00000	0.038118	14.760	0.0	-0.031273	0.0
	55.00000	-16.00000	15.00000	0.041402	14.760	0.0	-0.029745	0.0
	-25.00000	-15.00000	15.00000	0.039427	14.760	-2.2777E-6	-0.052666	0.0
	-24.00000	-15.00000	15.00000	0.036606	14.760	-2.5229E-6	-0.055798	0.0
	-23.00000	-15.00000	15.00000	0.033246	14.760	-2.7987E-6	-0.059154	0.0
	-22.00000	-15.00000	15.00000	0.029287	14.760	-3.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
6.00000	-15.00000	15.00000	-0.47480	14.760	-44.317E-6	-0.27475	0.0
7.00000	-15.00000	15.00000	-0.49368	14.760	-45.433E-6	-0.27909	0.0
8.00000	-15.00000	15.00000	-0.51055	14.760	-46.242E-6	-0.28223	0.0
9.00000	-15.00000	15.00000	-0.52530	14.760	-46.731E-6	-0.28414	0.0
10.00000	-15.00000	15.00000	-0.53785	14.760	-46.895E-6	-0.28478	0.0
11.00000	-15.00000	15.00000	-0.54817	14.760	-46.731E-6	-0.28414	0.0
12.00000	-15.00000	15.00000	-0.55624	14.760	-46.242E-6	-0.28223	0.0
13.00000	-15.00000	15.00000	-0.56205	14.760	-45.433E-6	-0.27909	0.0
14.00000	-15.00000	15.00000	-0.56564	14.760	-44.317E-6	-0.27475	0.0
15.00000	-15.00000	15.00000	-0.56704	14.760	-42.910E-6	-0.26928	0.0
16.00000	-15.00000	15.00000	-0.56629	14.760	-41.237E-6	-0.26277	0.0
17.00000	-15.00000	15.00000	-0.56346	14.760	-39.328E-6	-0.25533	0.0
18.00000	-15.00000	15.00000	-0.55858	14.760	-37.220E-6	-0.24707	0.0
19.00000	-15.00000	15.00000	-0.55173	14.760	-34.958E-6	-0.23811	0.0
20.00000	-15.00000	15.00000	-0.54297	14.760	-32.590E-6	-0.22862	0.0
21.00000	-15.00000	15.00000	-0.53235	14.760	-30.165E-6	-0.21872	0.0
22.00000	-15.00000	15.00000	-0.51995	14.760	-27.733E-6	-0.20858	0.0
23.00000	-15.00000	15.00000	-0.50582	14.760	-25.340E-6	-0.19831	0.0
24.00000	-15.00000	15.00000	-0.49004	14.760	-23.025E-6	-0.18806	0.0
25.00000	-15.00000	15.00000	-0.47268	14.760	-20.820E-6	-0.17793	0.0
26.00000	-15.00000	15.00000	-0.45384	14.760	-18.749E-6	-0.16803	0.0
27.00000	-15.00000	15.00000	-0.43360	14.760	-16.827E-6	-0.15842	0.0
28.00000	-15.00000	15.00000	-0.41210	14.760	-15.061E-6	-0.14916	0.0
29.00000	-15.00000	15.00000	-0.38946	14.760	-13.453E-6	-0.14031	0.0
30.00000	-15.00000	15.00000	-0.36587	14.760	-11.999E-6	-0.13188	0.0
31.00000	-15.00000	15.00000	-0.34150	14.760	-10.691E-6	-0.12380	0.0
32.00000	-15.00000	15.00000	-0.31658	14.760	-9.525E-6	-0.11635	0.0
33.00000	-15.00000	15.00000	-0.29132	14.760	-8.484E-6	-0.10925	0.0
34.00000	-15.00000	15.00000	-0.26599	14.760	-7.560E-6	-0.10258	0.0
35.00000	-15.00000	15.00000	-0.24082	14.760	-6.740E-6	-0.09639	0.0
36.00000	-15.00000	15.00000	-0.21566	14.760	-6.013E-6	-0.09049	0.0
37.00000	-15.00000	15.00000	-0.19194	14.760	-5.371E-6	-0.08503	0.0
38.00000	-15.00000	15.00000	-0.16868	14.760	-4.802E-6	-0.07994	0.0
39.00000	-15.00000	15.00000	-0.14644	14.760	-4.299E-6	-0.07518	0.0
40.00000	-15.00000	15.00000	-0.12537	14.760	-3.853E-6	-0.07074	0.0
41.00000	-15.00000	15.00000	-0.10559	14.760	-3.458E-6	-0.06669	0.0
42.00000	-15.00000	15.00000	-0.08716	14.760	-3.109E-6	-0.06275	0.0
43.00000	-15.00000	15.00000	-0.07013	14.760	-2.798E-6	-0.05915	0.0
44.00000	-15.00000	15.00000	-0.05451	14.760	-2.522E-6	-0.05579	0.0
45.00000	-15.00000	15.00000	-0.04028	14.760	-2.277E-6	-0.05266	0.0
46.00000	-15.00000	15.00000	-0.02748	14.760	-2.059E-6	-0.04974	0.0
47.00000	-15.00000	15.00000	-0.01583	14.760	-1.864E-6	-0.04704	0.0
48.00000	-15.00000	15.00000	-0.00503	14.760	-1.690E-6	-0.04464	0.0
49.00000	-15.00000	15.00000	0.00367	14.760	-1.535E-6	-0.04201	0.0
50.00000	-15.00000	15.00000	0.01175	14.760	-1.395E-6	-0.03953	0.0
51.00000	-15.00000	15.00000	0.01839	14.760	-1.270E-6	-0.03769	0.0
52.00000	-15.00000	15.00000	0.02503	14.760	-1.158E-6	-0.03581	0.0
53.00000	-15.00000	15.00000	0.03032	14.760	-1.057E-6	-0.03397	0.0
54.00000	-15.00000	15.00000	0.03489	14.760	0.0	-0.03227	0.0
55.00000	-15.00000	15.00000	0.03876	14.760	0.0	-0.03064	0.0
-25.00000	-14.00000	15.00000	-0.03742	14.760	-2.452E-6	-0.05497	0.0
-24.00000	-14.00000	15.00000	-0.03417	14.760	-2.725E-6	-0.05834	0.0
-23.00000	-14.00000	15.00000	-0.03025	14.760	-3.033E-6	-0.06196	0.0
-22.00000	-14.00000	15.00000	-0.02568	14.760	-3.381E-6	-0.06586	0.0
-21.00000	-14.00000	15.00000	-0.02034	14.760	-3.776E-6	-0.07005	0.0
-20.00000	-14.00000	15.00000	-0.01414	14.760	-4.224E-6	-0.07456	0.0
-19.00000	-14.00000	15.00000	-0.00701	14.760	-4.733E-6	-0.07949	0.0
-18.00000	-14.00000	15.00000	-0.00164	14.760	-5.312E-6	-0.08464	0.0
-17.00000	-14.00000	15.00000	-0.01048	14.760	-5.971E-6	-0.09027	0.0
-16.00000	-14.00000	15.00000	-0.02105	14.760	-6.722E-6	-0.09628	0.0
-15.00000	-14.00000	15.00000	-0.03292	14.760	-7.572E-6	-0.10282	0.0
-14.00000	-14.00000	15.00000	-0.04635	14.760	-8.550E-6	-0.10984	0.0
-13.00000	-14.00000	15.00000	-0.06129	14.760	-9.659E-6	-0.11734	0.0
-12.00000	-14.00000	15.00000	-0.07789	14.760	-10.918E-6	-0.12539	0.0
-11.00000	-14.00000	15.00000	-0.09621	14.760	-12.346E-6	-0.13398	0.0
-10.00000	-14.00000	15.00000	-0.11634	14.760	-13.960E-6	-0.14310	0.0
-9.00000	-14.00000	15.00000	-0.13830	14.760	-15.776E-6	-0.15288	0.0
-8.00000	-14.00000	15.00000	-0.16208	14.760	-17.808E-6	-0.16318	0.0
-7.00000	-14.00000	15.00000	-0.18766	14.760	-20.066E-6	-0.17401	0.0
-6.00000	-14.00000	15.00000	-0.21495	14.760	-22.551E-6	-0.18533	0.0
-5.00000	-14.00000	15.00000	-0.24382	14.760	-25.257E-6	-0.19708	0.0
-4.00000	-14.00000	15.00000	-0.27405	14.760	-28.168E-6	-0.20917	0.0
-3.00000	-14.00000	15.00000	-0.30542	14.760	-31.252E-6	-0.22148	0.0
-2.00000	-14.00000	15.00000	-0.33760	14.760	-34.465E-6	-0.23386	0.0
-1.00000	-14.00000	15.00000	-0.37025	14.760	-37.751E-6	-0.24617	0.0
0.00000	-14.00000	15.00000	-0.40299	14.760	-41.043E-6	-0.25829	0.0
1.00000	-14.00000	15.00000	-0.43540	14.760	-44.268E-6	-0.26980	0.0
2.00000	-14.00000	15.00000	-0.46709	14.760	-47.353E-6	-0.28076	0.0
3.00000	-14.00000	15.00000	-0.49764	14.760	-50.226E-6	-0.29088	0.0
4.00000	-14.00000	15.00000	-0.52671	14.760	-52.826E-6	-0.30002	0.0
5.00000	-14.00000	15.00000	-0.55397	14.760	-55.100E-6	-0.30800	0.0
6.00000	-14.00000	15.00000	-0.57914	14.760	-57.006E-6	-0.31471	0.0
7.00000	-14.00000	15.00000	-0.60200	14.760	-58.515E-6	-0.32003	0.0
8.00000	-14.00000	15.00000	-0.62238	14.760	-59.606E-6	-0.32389	0.0
9.00000	-14.00000	15.00000	-0.64015	14.760	-60.265E-6	-0.32622	0.0
10.00000	-14.00000	15.00000	-0.65525	14.760	-60.486E-6	-0.32705	0.0
11.00000	-14.00000	15.00000	-0.66763	14.760	-60.265E-6	-0.32622	0.0
12.00000	-14.00000	15.00000	-0.67729	14.760	-59.606E-6	-0.32389	0.0
13.00000	-14.00000	15.00000	-0.68424	14.760	-58.515E-6	-0.32003	0.0
14.00000	-14.00000	15.00000	-0.68853	14.760	-57.006E-6	-0.31471	0.0
15.00000	-14.00000	15.00000	-0.69020	14.760	-55.100E-6	-0.30800	0.0
16.00000	-14.00000	15.00000	-0.68931	14.760	-52.826E-6	-0.30002	0.0
17.00000	-14.00000	15.00000	-0.68594	14.760	-50.226E-6	-0.29088	0.0
18.00000	-14.00000	15.00000	-0.68015	14.760	-47.353E-6	-0.28076	0.0
19.00000	-14.00000	15.00000	-0.67202	14.760	-44.268E-6	-0.26980	0.0
20.00000	-14.00000	15.00000	-0.66162	14.760	-41.043E-6	-0.25829	0.0
21.00000	-14.00000	15.00000	-0.64902	14.760	-37.751E-6	-0.24617	0.0
22.00000	-14.00000	15.00000	-0.63428	14.760	-34.465E-6	-0.23386	0.0
23.00000	-14.00000	15.00000	-0.61748	14.760	-31.252E-6	-0.22148	0.0
24.00000	-14.00000	15.00000	-0.59869	14.760	-28.168E-6	-0.20917	0.0
25.00000	-14.00000	15.00000	-0.57799	14.760	-25.257E-6	-0.19708	0.0
26.00000	-14.00000	15.00000	-0.55546	14.760	-22.551E-6	-0.18533	0.0
27.00000	-14.00000	15.00000	-0.53122	14.760	-20.066E-6	-0.17401	0.0
28.00000	-14.00000	15.00000	-0.50540	14.760	-17.808E-6	-0.16318	0.0
29.00000	-14.00000	15.00000	-0.47816	14.760	-15.776E-6	-0.15288	0.0
30.00000	-14.00000	15.00000	-0.44970	14.760	-13.960E-6	-0.14310	0.0
31.00000	-14.00000	15.00000	-0.42024	14.760	-12.346E-6	-0.13398	0.0
32.00000	-14.00000	15.00000	-0.39005	14.760	-10.918E-6	-0.12539	0.0
33.00000	-14.00000	15.00000	-0.35942	14.760	-9.659E-6	-0.11734	0.0
34.00000	-14.00000	15.00000	-0.32867	14.760	-8.550E-6	-0.10984	0.0
35.00000	-14.00000	15.00000	-0.29812	14.760	-7.572E-6	-0.10282	0.0
36.00000	-14.00000	15.00000	-0.26809	14.760	-6.722E-6	-0.09628	0.0
37.00000	-14.00000	15.00000	-0.23886	14.760	-5.971E-6	-0.09027	0.0
38.00000	-14.00000	15.00000	-0.21071	14.760	-5.312E-6	-0.08464	0.0
39.00000	-14.00000	15.00000	-0.18386	14.760	-4.733E-6	-0.07949	0.0
40.00000	-14.00000	15.00000	-0.15850	14.760	-4.224E-6	-0.07456	0.0
41.00000	-14.00000	15.00000	-0.13475	14.760	-3.776E-6	-0.07005	0.0
42.00000	-14.00000	15.00000	-0.11270	14.760	-3.381E-6	-0.06586	0.0
43.00000	-14.00000	15.00000	-0.09238	14.760	-3.033E-6	-0.06196	0.0
44.00000	-14.00000	15.00000	-0.07381	14.760	-2.725E-6	-0.05834	0.0
45.00000	-14.00000	15.00000	-0.05695	14.760</			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
55.00000	-14.00000	15.00000	0.035786	14.760	0.0	-0.031594	0.0
-25.00000	-13.00000	15.00000	0.035204	14.760	-2.6380E-6	-0.057357	0.0
-24.00000	-13.00000	15.00000	0.031434	14.760	-2.9408E-6	-0.060978	0.0
-23.00000	-13.00000	15.00000	0.026967	14.760	-3.2846E-6	-0.064883	0.0
-22.00000	-13.00000	15.00000	0.021717	14.760	-3.6755E-6	-0.069097	0.0
-21.00000	-13.00000	15.00000	0.015590	14.760	-4.1209E-6	-0.073647	0.0
-20.00000	-13.00000	15.00000	0.0084818	14.760	-4.6292E-6	-0.078562	0.0
-19.00000	-13.00000	15.00000	283.21E-6	14.760	-5.2105E-6	-0.083874	0.0
-18.00000	-13.00000	15.00000	-0.0091245	14.760	-5.8762E-6	-0.089617	0.0
-17.00000	-13.00000	15.00000	-0.019867	14.760	-6.6395E-6	-0.095827	0.0
-16.00000	-13.00000	15.00000	-0.032075	14.760	-7.5159E-6	-0.10254	0.0
-15.00000	-13.00000	15.00000	-0.045885	14.760	-8.5228E-6	-0.10980	0.0
-14.00000	-13.00000	15.00000	-0.061432	14.760	-9.6804E-6	-0.11764	0.0
-13.00000	-13.00000	15.00000	-0.078850	14.760	-11.011E-6	-0.12611	0.0
-12.00000	-13.00000	15.00000	-0.098267	14.760	-12.539E-6	-0.13523	0.0
-11.00000	-13.00000	15.00000	-0.11979	14.760	-14.291E-6	-0.14505	0.0
-10.00000	-13.00000	15.00000	-0.14353	14.760	-16.295E-6	-0.15559	0.0
-9.00000	-13.00000	15.00000	-0.16953	14.760	-18.578E-6	-0.16687	0.0
-8.00000	-13.00000	15.00000	-0.19782	14.760	-21.165E-6	-0.17888	0.0
-7.00000	-13.00000	15.00000	-0.22837	14.760	-24.077E-6	-0.19162	0.0
-6.00000	-13.00000	15.00000	-0.26111	14.760	-27.324E-6	-0.20503	0.0
-5.00000	-13.00000	15.00000	-0.29587	14.760	-30.905E-6	-0.21906	0.0
-4.00000	-13.00000	15.00000	-0.33243	14.760	-34.801E-6	-0.23358	0.0
-3.00000	-13.00000	15.00000	-0.37048	14.760	-38.974E-6	-0.24848	0.0
-2.00000	-13.00000	15.00000	-0.40962	14.760	-43.362E-6	-0.26355	0.0
-1.00000	-13.00000	15.00000	-0.44943	14.760	-47.881E-6	-0.27861	0.0
0.00000	-13.00000	15.00000	-0.48939	14.760	-52.432E-6	-0.29341	0.0
1.00000	-13.00000	15.00000	-0.52898	14.760	-56.903E-6	-0.30770	0.0
2.00000	-13.00000	15.00000	-0.56768	14.760	-61.184E-6	-0.32123	0.0
3.00000	-13.00000	15.00000	-0.60498	14.760	-65.167E-6	-0.33376	0.0
4.00000	-13.00000	15.00000	-0.64041	14.760	-68.762E-6	-0.34505	0.0
5.00000	-13.00000	15.00000	-0.67357	14.760	-71.896E-6	-0.35493	0.0
6.00000	-13.00000	15.00000	-0.70412	14.760	-74.513E-6	-0.36323	0.0
7.00000	-13.00000	15.00000	-0.73180	14.760	-76.577E-6	-0.36980	0.0
8.00000	-13.00000	15.00000	-0.75640	14.760	-78.064E-6	-0.37457	0.0
9.00000	-13.00000	15.00000	-0.77781	14.760	-78.960E-6	-0.37745	1.0063E-6
10.00000	-13.00000	15.00000	-0.79594	14.760	-79.260E-6	-0.37842	1.0089E-6
11.00000	-13.00000	15.00000	-0.81076	14.760	-78.960E-6	-0.37745	1.0063E-6
12.00000	-13.00000	15.00000	-0.82230	14.760	-78.064E-6	-0.37457	0.0
13.00000	-13.00000	15.00000	-0.83058	14.760	-76.577E-6	-0.36980	0.0
14.00000	-13.00000	15.00000	-0.83567	14.760	-74.513E-6	-0.36323	0.0
15.00000	-13.00000	15.00000	-0.83765	14.760	-71.896E-6	-0.35493	0.0
16.00000	-13.00000	15.00000	-0.83658	14.760	-68.762E-6	-0.34505	0.0
17.00000	-13.00000	15.00000	-0.83256	14.760	-65.167E-6	-0.33376	0.0
18.00000	-13.00000	15.00000	-0.82569	14.760	-61.184E-6	-0.32123	0.0
19.00000	-13.00000	15.00000	-0.81603	14.760	-56.903E-6	-0.30770	0.0
20.00000	-13.00000	15.00000	-0.80369	14.760	-52.432E-6	-0.29341	0.0
21.00000	-13.00000	15.00000	-0.78874	14.760	-47.881E-6	-0.27861	0.0
22.00000	-13.00000	15.00000	-0.77124	14.760	-43.362E-6	-0.26355	0.0
23.00000	-13.00000	15.00000	-0.75128	14.760	-38.974E-6	-0.24848	0.0
24.00000	-13.00000	15.00000	-0.72892	14.760	-34.801E-6	-0.23358	0.0
25.00000	-13.00000	15.00000	-0.70425	14.760	-30.905E-6	-0.21906	0.0
26.00000	-13.00000	15.00000	-0.67733	14.760	-27.324E-6	-0.20503	0.0
27.00000	-13.00000	15.00000	-0.64830	14.760	-24.077E-6	-0.19162	0.0
28.00000	-13.00000	15.00000	-0.61729	14.760	-21.165E-6	-0.17888	0.0
29.00000	-13.00000	15.00000	-0.58448	14.760	-18.578E-6	-0.16687	0.0
30.00000	-13.00000	15.00000	-0.55010	14.760	-16.295E-6	-0.15559	0.0
31.00000	-13.00000	15.00000	-0.51444	14.760	-14.291E-6	-0.14505	0.0
32.00000	-13.00000	15.00000	-0.47781	14.760	-12.539E-6	-0.13523	0.0
33.00000	-13.00000	15.00000	-0.44059	14.760	-11.011E-6	-0.12611	0.0
34.00000	-13.00000	15.00000	-0.40319	14.760	-9.6804E-6	-0.11764	0.0
35.00000	-13.00000	15.00000	-0.36602	14.760	-8.5228E-6	-0.10980	0.0
36.00000	-13.00000	15.00000	-0.32950	14.760	-7.5159E-6	-0.10254	0.0
37.00000	-13.00000	15.00000	-0.29402	14.760	-6.6395E-6	-0.095827	0.0
38.00000	-13.00000	15.00000	-0.25992	14.760	-5.8762E-6	-0.089617	0.0
39.00000	-13.00000	15.00000	-0.22748	14.760	-5.2105E-6	-0.083874	0.0
40.00000	-13.00000	15.00000	-0.19693	14.760	-4.6292E-6	-0.078562	0.0
41.00000	-13.00000	15.00000	-0.16842	14.760	-4.1209E-6	-0.073647	0.0
42.00000	-13.00000	15.00000	-0.14205	14.760	-3.6755E-6	-0.069097	0.0
43.00000	-13.00000	15.00000	-0.11785	14.760	-3.2846E-6	-0.064883	0.0
44.00000	-13.00000	15.00000	-0.095805	14.760	-2.9408E-6	-0.060978	0.0
45.00000	-13.00000	15.00000	-0.075867	14.760	-2.6380E-6	-0.057357	0.0
46.00000	-13.00000	15.00000	-0.057948	14.760	-2.3708E-6	-0.053997	0.0
47.00000	-13.00000	15.00000	-0.041943	14.760	-2.1345E-6	-0.050877	0.0
48.00000	-13.00000	15.00000	-0.027729	14.760	-1.9251E-6	-0.047977	0.0
49.00000	-13.00000	15.00000	-0.015178	14.760	-1.7393E-6	-0.045279	0.0
50.00000	-13.00000	15.00000	-0.0041572	14.760	-1.5740E-6	-0.042768	0.0
51.00000	-13.00000	15.00000	0.0054660	14.760	-1.4268E-6	-0.040429	0.0
52.00000	-13.00000	15.00000	0.013820	14.760	-1.2954E-6	-0.038247	0.0
53.00000	-13.00000	15.00000	0.021028	14.760	-1.1779E-6	-0.036212	0.0
54.00000	-13.00000	15.00000	0.027205	14.760	-1.0727E-6	-0.034311	0.0
55.00000	-13.00000	15.00000	0.032461	14.760	0.0	-0.032534	0.0
-25.00000	-12.00000	15.00000	0.032773	14.760	-2.8347E-6	-0.059808	0.0
-24.00000	-12.00000	15.00000	0.028466	14.760	-3.1704E-6	-0.063696	0.0
-23.00000	-12.00000	15.00000	0.023370	14.760	-3.5532E-6	-0.067902	0.0
-22.00000	-12.00000	15.00000	0.017384	14.760	-3.9910E-6	-0.072455	0.0
-21.00000	-12.00000	15.00000	0.010395	14.760	-4.4925E-6	-0.077390	0.0
-20.00000	-12.00000	15.00000	0.0022821	14.760	-5.0686E-6	-0.082741	0.0
-19.00000	-12.00000	15.00000	-0.0070879	14.760	-5.7315E-6	-0.088548	0.0
-18.00000	-12.00000	15.00000	-0.017859	14.760	-6.4961E-6	-0.094854	0.0
-17.00000	-12.00000	15.00000	-0.030185	14.760	-7.3798E-6	-0.10171	0.0
-16.00000	-12.00000	15.00000	-0.044230	14.760	-8.4028E-6	-0.10915	0.0
-15.00000	-12.00000	15.00000	-0.060164	14.760	-9.5891E-6	-0.11724	0.0
-14.00000	-12.00000	15.00000	-0.078162	14.760	-10.966E-6	-0.12604	0.0
-13.00000	-12.00000	15.00000	-0.098401	14.760	-12.566E-6	-0.13559	0.0
-12.00000	-12.00000	15.00000	-0.12105	14.760	-14.424E-6	-0.14595	0.0
-11.00000	-12.00000	15.00000	-0.14627	14.760	-16.581E-6	-0.15719	0.0
-10.00000	-12.00000	15.00000	-0.17420	14.760	-19.081E-6	-0.16933	0.0
-9.00000	-12.00000	15.00000	-0.20494	14.760	-21.968E-6	-0.18243	0.0
-8.00000	-12.00000	15.00000	-0.23855	14.760	-25.288E-6	-0.19651	0.0
-7.00000	-12.00000	15.00000	-0.27503	14.760	-29.079E-6	-0.21153	0.0
-6.00000	-12.00000	15.00000	-0.31430	14.760	-33.371E-6	-0.22754	0.0
-5.00000	-12.00000	15.00000	-0.35620	14.760	-38.175E-6	-0.24439	0.0
-4.00000	-12.00000	15.00000	-0.40045	14.760	-43.474E-6	-0.26199	0.0
-3.00000	-12.00000	15.00000	-0.44667	14.760	-49.221E-6	-0.28017	0.0
-2.00000	-12.00000	15.00000	-0.49440	14.760	-55.329E-6	-0.29871	0.0
-1.00000	-12.00000	15.00000	-0.54303	14.760	-61.674E-6	-0.31732	0.0
0.00000	-12.00000	15.00000	-0.59194	14.760	-68.099E-6	-0.33570	0.0
1.00000	-12.00000	15.00000	-0.64044	14.760	-74.431E-6	-0.35351	0.0
2.00000	-12.00000	15.00000	-0.68783	14.760	-80.492E-6	-0.37040	0.0
3.00000	-12.00000	15.00000	-0.73346	14.760	-86.121E-6	-0.38606	1.0292E-6
4.00000	-12.00000	15.00000	-0.77672	14.760	-91.179E-6	-0.40018	1.0668E-6
5.00000	-12.00000	15.00000	-0.81711	14.760	-95.565E-6	-0.41251	1.0996E-6
6.00000	-12.00000	15.00000	-0.85422	14.760	-99.207E-6	-0.42285	1.1272E-6
7.00000	-12.00000	15.00000	-0.88773	14.760	-102.06E-6	-0.43104	1.1490E-6
8.00000	-12.00000	15.00000	-0.91743	14.760	-104.11E-6	-0.43696	1.1648E-6
9.00000	-12.00000	15.00000	-0.94318	14.760	-105.34E-6	-0.44055	1.1743E-6
10.00000	-12.00000	15.00000	-0.96492	14.760	-105.75E-6	-0.44174	1.1775E-6
11.00000	-12.00000	15.00000	-0.98264	14.760	-105.34E-6	-	

Job No.	Sheet No.	Rev.
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Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
23.00000	-12.00000	15.00000	-0.91196	14.760	-49.221E-6	-0.28017	0.0
24.00000	-12.00000	15.00000	-0.88538	14.760	-43.474E-6	-0.26199	0.0
25.00000	-12.00000	15.00000	-0.85599	14.760	-38.175E-6	-0.24439	0.0
26.00000	-12.00000	15.00000	-0.82386	14.760	-33.371E-6	-0.22754	0.0
27.00000	-12.00000	15.00000	-0.78909	14.760	-29.079E-6	-0.21155	0.0
28.00000	-12.00000	15.00000	-0.75183	14.760	-25.288E-6	-0.19651	0.0
29.00000	-12.00000	15.00000	-0.71229	14.760	-21.968E-6	-0.18243	0.0
30.00000	-12.00000	15.00000	-0.67071	14.760	-19.081E-6	-0.16933	0.0
31.00000	-12.00000	15.00000	-0.62744	14.760	-16.581E-6	-0.15719	0.0
32.00000	-12.00000	15.00000	-0.58289	14.760	-14.424E-6	-0.14595	0.0
33.00000	-12.00000	15.00000	-0.53754	14.760	-12.566E-6	-0.13559	0.0
34.00000	-12.00000	15.00000	-0.49192	14.760	-10.966E-6	-0.12604	0.0
35.00000	-12.00000	15.00000	-0.44658	14.760	-9.5891E-6	-0.11724	0.0
36.00000	-12.00000	15.00000	-0.40206	14.760	-8.4028E-6	-0.10915	0.0
37.00000	-12.00000	15.00000	-0.35888	14.760	-7.3798E-6	-0.10171	0.0
38.00000	-12.00000	15.00000	-0.31748	14.760	-6.4961E-6	-0.094854	0.0
39.00000	-12.00000	15.00000	-0.27823	14.760	-5.7315E-6	-0.088548	0.0
40.00000	-12.00000	15.00000	-0.24140	14.760	-5.0686E-6	-0.082741	0.0
41.00000	-12.00000	15.00000	-0.20718	14.760	-4.4925E-6	-0.077390	0.0
42.00000	-12.00000	15.00000	-0.17566	14.760	-3.9910E-6	-0.072455	0.0
43.00000	-12.00000	15.00000	-0.14686	14.760	-3.5532E-6	-0.067902	0.0
44.00000	-12.00000	15.00000	-0.12074	14.760	-3.1704E-6	-0.063696	0.0
45.00000	-12.00000	15.00000	-0.097221	14.760	-2.8347E-6	-0.059808	0.0
46.00000	-12.00000	15.00000	-0.076168	14.760	-2.5398E-6	-0.056211	0.0
47.00000	-12.00000	15.00000	-0.057434	14.760	-2.2801E-6	-0.052879	0.0
48.00000	-12.00000	15.00000	-0.040856	14.760	-2.0510E-6	-0.049791	0.0
49.00000	-12.00000	15.00000	-0.026263	14.760	-1.8484E-6	-0.046926	0.0
50.00000	-12.00000	15.00000	-0.013484	14.760	-1.6688E-6	-0.044265	0.0
51.00000	-12.00000	15.00000	-0.0023524	14.760	-1.5093E-6	-0.041791	0.0
52.00000	-12.00000	15.00000	0.0072935	14.760	-1.3674E-6	-0.039489	0.0
53.00000	-12.00000	15.00000	0.015605	14.760	-1.2410E-6	-0.037345	0.0
54.00000	-12.00000	15.00000	0.022724	14.760	-1.1280E-6	-0.035347	0.0
55.00000	-12.00000	15.00000	0.028781	14.760	-1.0270E-6	-0.033482	0.0
-25.00000	-11.00000	15.00000	0.030131	14.760	-3.0423E-6	-0.062322	0.0
-24.00000	-11.00000	15.00000	0.025246	14.760	-3.4136E-6	-0.066492	0.0
-23.00000	-11.00000	15.00000	0.019470	14.760	-3.8393E-6	-0.071016	0.0
-22.00000	-11.00000	15.00000	0.012684	14.760	-4.3286E-6	-0.075932	0.0
-21.00000	-11.00000	15.00000	0.0047580	14.760	-4.8924E-6	-0.081278	0.0
-20.00000	-11.00000	15.00000	-0.0044530	14.760	-5.5439E-6	-0.087097	0.0
-19.00000	-11.00000	15.00000	-0.015108	14.760	-6.2989E-6	-0.093440	0.0
-18.00000	-11.00000	15.00000	-0.027382	14.760	-7.1760E-6	-0.10030	0.0
-17.00000	-11.00000	15.00000	-0.041462	14.760	-8.1978E-6	-0.10791	0.0
-16.00000	-11.00000	15.00000	-0.057550	14.760	-9.3911E-6	-0.11616	0.0
-15.00000	-11.00000	15.00000	-0.075862	14.760	-10.788E-6	-0.12518	0.0
-14.00000	-11.00000	15.00000	-0.096621	14.760	-12.426E-6	-0.13504	0.0
-13.00000	-11.00000	15.00000	-0.12006	14.760	-14.351E-6	-0.14582	0.0
-12.00000	-11.00000	15.00000	-0.14640	14.760	-16.615E-6	-0.15761	0.0
-11.00000	-11.00000	15.00000	-0.17586	14.760	-19.279E-6	-0.17047	0.0
-10.00000	-11.00000	15.00000	-0.20866	14.760	-22.410E-6	-0.18450	0.0
-9.00000	-11.00000	15.00000	-0.24494	14.760	-26.083E-6	-0.19977	0.0
-8.00000	-11.00000	15.00000	-0.28482	14.760	-30.375E-6	-0.21632	0.0
-7.00000	-11.00000	15.00000	-0.32835	14.760	-35.362E-6	-0.23418	0.0
-6.00000	-11.00000	15.00000	-0.37547	14.760	-41.106E-6	-0.25334	0.0
-5.00000	-11.00000	15.00000	-0.42601	14.760	-47.647E-6	-0.27375	0.0
-4.00000	-11.00000	15.00000	-0.47965	14.760	-54.985E-6	-0.29526	0.0
-3.00000	-11.00000	15.00000	-0.53594	14.760	-63.064E-6	-0.31769	0.0
-2.00000	-11.00000	15.00000	-0.59427	14.760	-71.762E-6	-0.34073	0.0
-1.00000	-11.00000	15.00000	-0.65389	14.760	-80.887E-6	-0.36402	0.0
0.00000	-11.00000	15.00000	-0.71395	14.760	-90.189E-6	-0.38714	1.0320E-6
1.00000	-11.00000	15.00000	-0.77355	14.760	-99.381E-6	-0.40961	1.0918E-6
2.00000	-11.00000	15.00000	-0.83176	14.760	-108.17E-6	-0.43097	1.1487E-6
3.00000	-11.00000	15.00000	-0.88772	14.760	-116.30E-6	-0.45076	1.2014E-6
4.00000	-11.00000	15.00000	-0.94067	14.760	-123.56E-6	-0.46859	1.2489E-6
5.00000	-11.00000	15.00000	-0.98995	14.760	-129.80E-6	-0.48413	1.2903E-6
6.00000	-11.00000	15.00000	-1.0351	14.760	-134.95E-6	-0.49713	1.3249E-6
7.00000	-11.00000	15.00000	-1.0757	14.760	-138.95E-6	-0.50741	1.3523E-6
8.00000	-11.00000	15.00000	-1.1115	14.760	-141.80E-6	-0.51483	1.3720E-6
9.00000	-11.00000	15.00000	-1.1424	14.760	-143.50E-6	-0.51931	1.3840E-6
10.00000	-11.00000	15.00000	-1.1684	14.760	-144.07E-6	-0.52081	1.3879E-6
11.00000	-11.00000	15.00000	-1.1896	14.760	-143.50E-6	-0.51931	1.3840E-6
12.00000	-11.00000	15.00000	-1.2059	14.760	-141.80E-6	-0.51483	1.3720E-6
13.00000	-11.00000	15.00000	-1.2175	14.760	-138.95E-6	-0.50741	1.3523E-6
14.00000	-11.00000	15.00000	-1.2246	14.760	-134.95E-6	-0.49713	1.3249E-6
15.00000	-11.00000	15.00000	-1.2272	14.760	-129.80E-6	-0.48413	1.2903E-6
16.00000	-11.00000	15.00000	-1.2256	14.760	-123.56E-6	-0.46859	1.2489E-6
17.00000	-11.00000	15.00000	-1.2198	14.760	-116.30E-6	-0.45076	1.2014E-6
18.00000	-11.00000	15.00000	-1.2101	14.760	-108.17E-6	-0.43097	1.1487E-6
19.00000	-11.00000	15.00000	-1.1965	14.760	-99.381E-6	-0.40961	1.0918E-6
20.00000	-11.00000	15.00000	-1.1791	14.760	-90.189E-6	-0.38714	1.0320E-6
21.00000	-11.00000	15.00000	-1.1581	14.760	-80.887E-6	-0.36402	0.0
22.00000	-11.00000	15.00000	-1.1335	14.760	-71.762E-6	-0.34073	0.0
23.00000	-11.00000	15.00000	-1.1054	14.760	-63.064E-6	-0.31769	0.0
24.00000	-11.00000	15.00000	-1.0739	14.760	-54.985E-6	-0.29526	0.0
25.00000	-11.00000	15.00000	-1.0389	14.760	-47.647E-6	-0.27375	0.0
26.00000	-11.00000	15.00000	-1.0005	14.760	-41.106E-6	-0.25334	0.0
27.00000	-11.00000	15.00000	-0.95892	14.760	-35.362E-6	-0.23418	0.0
28.00000	-11.00000	15.00000	-0.91415	14.760	-30.375E-6	-0.21632	0.0
29.00000	-11.00000	15.00000	-0.86643	14.760	-26.083E-6	-0.19977	0.0
30.00000	-11.00000	15.00000	-0.81606	14.760	-22.410E-6	-0.18450	0.0
31.00000	-11.00000	15.00000	-0.76344	14.760	-19.279E-6	-0.17047	0.0
32.00000	-11.00000	15.00000	-0.70911	14.760	-16.615E-6	-0.15761	0.0
33.00000	-11.00000	15.00000	-0.65367	14.760	-14.351E-6	-0.14582	0.0
34.00000	-11.00000	15.00000	-0.59782	14.760	-12.426E-6	-0.13504	0.0
35.00000	-11.00000	15.00000	-0.54231	14.760	-10.788E-6	-0.12518	0.0
36.00000	-11.00000	15.00000	-0.48786	14.760	-9.3911E-6	-0.11616	0.0
37.00000	-11.00000	15.00000	-0.43515	14.760	-8.1978E-6	-0.10791	0.0
38.00000	-11.00000	15.00000	-0.38478	14.760	-7.1760E-6		

Oasys

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

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Made byMP

Date

Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
-9.00000	-10.00000	15.00000	-0.28992	14.760	-31.088E-6	-0.21907	0.0
-8.00000	-10.00000	15.00000	-0.33719	14.760	-36.680E-6	-0.23861	0.0
-7.00000	-10.00000	15.00000	-0.38910	14.760	-43.307E-6	-0.25992	0.0
-6.00000	-10.00000	15.00000	-0.44364	14.760	-51.097E-6	-0.28305	0.0
-5.00000	-10.00000	15.00000	-0.50665	14.760	-60.154E-6	-0.30795	0.0
-4.00000	-10.00000	15.00000	-0.57180	14.760	-70.521E-6	-0.33452	0.0
-3.00000	-10.00000	15.00000	-0.64052	14.760	-82.150E-6	-0.36249	0.0
-2.00000	-10.00000	15.00000	-0.71205	14.760	-94.872E-6	-0.39151	1.0436E-6
-1.00000	-10.00000	15.00000	-0.78542	14.760	-108.38E-6	-0.42107	1.1223E-6
0.00000	-10.00000	15.00000	-0.85948	14.760	-122.26E-6	-0.45058	1.2008E-6
1.00000	-10.00000	15.00000	-0.93302	14.760	-136.01E-6	-0.47937	1.2775E-6
2.00000	-10.00000	15.00000	-1.0048	14.760	-149.12E-6	-0.50675	1.3503E-6
3.00000	-10.00000	15.00000	-1.0737	14.760	-161.17E-6	-0.53210	1.4178E-6
4.00000	-10.00000	15.00000	-1.1386	14.760	-171.83E-6	-0.55489	1.4705E-6
5.00000	-10.00000	15.00000	-1.1989	14.760	-180.89E-6	-0.57469	1.5312E-6
6.00000	-10.00000	15.00000	-1.2538	14.760	-188.26E-6	-0.59119	1.5751E-6
7.00000	-10.00000	15.00000	-1.3029	14.760	-193.94E-6	-0.60419	1.6097E-6
8.00000	-10.00000	15.00000	-1.3461	14.760	-197.95E-6	-0.61354	1.6346E-6
9.00000	-10.00000	15.00000	-1.3833	14.760	-200.32E-6	-0.61918	1.6496E-6
10.00000	-10.00000	15.00000	-1.4143	14.760	-201.11E-6	-0.62106	1.6546E-6
11.00000	-10.00000	15.00000	-1.4395	14.760	-200.32E-6	-0.61918	1.6496E-6
12.00000	-10.00000	15.00000	-1.4588	14.760	-197.95E-6	-0.61354	1.6346E-6
13.00000	-10.00000	15.00000	-1.4724	14.760	-193.94E-6	-0.60419	1.6097E-6
14.00000	-10.00000	15.00000	-1.4807	14.760	-188.26E-6	-0.59119	1.5751E-6
15.00000	-10.00000	15.00000	-1.4837	14.760	-180.89E-6	-0.57469	1.5312E-6
16.00000	-10.00000	15.00000	-1.4816	14.760	-171.83E-6	-0.55489	1.4785E-6
17.00000	-10.00000	15.00000	-1.4747	14.760	-161.17E-6	-0.53210	1.4178E-6
18.00000	-10.00000	15.00000	-1.4613	14.760	-149.12E-6	-0.50675	1.3503E-6
19.00000	-10.00000	15.00000	-1.4469	14.760	-136.01E-6	-0.47937	1.2775E-6
20.00000	-10.00000	15.00000	-1.4263	14.760	-122.26E-6	-0.45058	1.2008E-6
21.00000	-10.00000	15.00000	-1.4015	14.760	-108.38E-6	-0.42107	1.1223E-6
22.00000	-10.00000	15.00000	-1.3724	14.760	-94.872E-6	-0.39151	1.0436E-6
23.00000	-10.00000	15.00000	-1.3391	14.760	-82.150E-6	-0.36249	0.0
24.00000	-10.00000	15.00000	-1.3017	14.760	-70.521E-6	-0.33452	0.0
25.00000	-10.00000	15.00000	-1.2601	14.760	-60.154E-6	-0.30795	0.0
26.00000	-10.00000	15.00000	-1.2144	14.760	-51.097E-6	-0.28305	0.0
27.00000	-10.00000	15.00000	-1.1646	14.760	-43.307E-6	-0.25992	0.0
28.00000	-10.00000	15.00000	-1.1118	14.760	-36.680E-6	-0.23861	0.0
29.00000	-10.00000	15.00000	-1.0531	14.760	-31.088E-6	-0.21907	0.0
30.00000	-10.00000	15.00000	-0.99197	14.760	-26.390E-6	-0.20124	0.0
31.00000	-10.00000	15.00000	-0.92782	14.760	-22.454E-6	-0.18501	0.0
32.00000	-10.00000	15.00000	-0.86131	14.760	-19.158E-6	-0.17025	0.0
33.00000	-10.00000	15.00000	-0.79326	14.760	-16.397E-6	-0.15685	0.0
34.00000	-10.00000	15.00000	-0.72459	14.760	-14.080E-6	-0.14467	0.0
35.00000	-10.00000	15.00000	-0.65632	14.760	-12.131E-6	-0.13362	0.0
36.00000	-10.00000	15.00000	-0.58945	14.760	-10.488E-6	-0.12358	0.0
37.00000	-10.00000	15.00000	-0.52488	14.760	-9.0980E-6	-0.11444	0.0
38.00000	-10.00000	15.00000	-0.46341	14.760	-7.9181E-6	-0.10612	0.0
39.00000	-10.00000	15.00000	-0.40562	14.760	-6.9141E-6	-0.098542	0.0
40.00000	-10.00000	15.00000	-0.35194	14.760	-6.0561E-6	-0.091624	0.0
41.00000	-10.00000	15.00000	-0.30257	14.760	-5.3207E-6	-0.085302	0.0
42.00000	-10.00000	15.00000	-0.25760	14.760	-4.6883E-6	-0.079519	0.0
43.00000	-10.00000	15.00000	-0.21696	14.760	-4.1426E-6	-0.074220	0.0
44.00000	-10.00000	15.00000	-0.18050	14.760	-3.6704E-6	-0.069359	0.0
45.00000	-10.00000	15.00000	-0.14800	14.760	-3.2604E-6	-0.064894	0.0
46.00000	-10.00000	15.00000	-0.11919	14.760	-2.9035E-6	-0.060787	0.0
47.00000	-10.00000	15.00000	-0.093780	14.760	-2.5919E-6	-0.057004	0.0
48.00000	-10.00000	15.00000	-0.071479	14.760	-2.3190E-6	-0.053516	0.0
49.00000	-10.00000	15.00000	-0.051994	14.760	-2.0795E-6	-0.050295	0.0
50.00000	-10.00000	15.00000	-0.035043	14.760	-1.8686E-6	-0.047317	0.0
51.00000	-10.00000	15.00000	-0.020360	14.760	-1.6826E-6	-0.044561	0.0
52.00000	-10.00000	15.00000	-0.016974	14.760	-1.5182E-6	-0.042007	0.0
53.00000	-10.00000	15.00000	0.0031736	14.760	-1.3724E-6	-0.039637	0.0
54.00000	-10.00000	15.00000	0.012460	14.760	-1.2428E-6	-0.037436	0.0
55.00000	-10.00000	15.00000	0.020351	14.760	-1.1275E-6	-0.035390	0.0
-25.00000	-9.00000	15.00000	0.024243	14.760	-3.4887E-6	-0.067514	0.0
-24.00000	-9.00000	15.00000	0.018077	14.760	-3.9401E-6	-0.072289	0.0
-23.00000	-9.00000	15.00000	0.010788	14.760	-4.4627E-6	-0.077503	0.0
-22.00000	-9.00000	15.00000	0.0022176	14.760	-5.0697E-6	-0.083206	0.0
-21.00000	-9.00000	15.00000	-0.0078128	14.760	-5.7773E-6	-0.089454	0.0
-20.00000	-9.00000	15.00000	-0.019504	14.760	-6.6054E-6	-0.096310	0.0
-19.00000	-9.00000	15.00000	-0.0330380	14.760	-7.5780E-6	-0.10384	0.0
-18.00000	-9.00000	15.00000	-0.048790	14.760	-8.7253E-6	-0.11214	0.0
-17.00000	-9.00000	15.00000	-0.066911	14.760	-10.084E-6	-0.12129	0.0
-16.00000	-9.00000	15.00000	-0.087748	14.760	-11.700E-6	-0.13139	0.0
-15.00000	-9.00000	15.00000	-0.11163	14.760	-13.630E-6	-0.14257	0.0
-14.00000	-9.00000	15.00000	-0.13893	14.760	-15.944E-6	-0.15495	0.0
-13.00000	-9.00000	15.00000	-0.17001	14.760	-18.731E-6	-0.16868	0.0
-12.00000	-9.00000	15.00000	-0.20528	14.760	-22.099E-6	-0.18393	0.0
-11.00000	-9.00000	15.00000	-0.24515	14.760	-26.182E-6	-0.20086	0.0
-10.00000	-9.00000	15.00000	-0.29001	14.760	-31.144E-6	-0.21967	0.0
-9.00000	-9.00000	15.00000	-0.34025	14.760	-37.131E-6	-0.24055	0.0
-8.00000	-9.00000	15.00000	-0.39618	14.760	-44.520E-6	-0.26369	0.0
-7.00000	-9.00000	15.00000	-0.45803	14.760	-53.415E-6	-0.28925	0.0
-6.00000	-9.00000	15.00000	-0.52589	14.760	-64.130E-6	-0.31735	0.0
-5.00000	-9.00000	15.00000	-0.59963	14.760	-76.900E-6	-0.34803	0.0
-4.00000	-9.00000	15.00000	-0.67892	14.760	-91.886E-6	-0.38112	1.0161E-6
-3.00000	-9.00000	15.00000	-0.76309	14.760	-109.09E-6	-0.41655	1.1102E-6
-2.00000	-9.00000	15.00000	-0.85117	14.760	-128.30E-6	-0.45366	1.2090E-6
-1.00000	-9.00000	15.00000	-0.94187	14.760	-149.03E-6	-0.49183	1.3105E-6
0.00000	-9.00000	15.00000	-1.0337	14.760	-170.51E-6	-0.53018	1.4125E-6
1.00000	-9.00000	15.00000	-1.1249	14.760	-191.84E-6	-0.56771	1.5124E-6
2.00000	-9.00000	15.00000	-1.2138	14.760	-212.09E-6	-0.60343	1.6074E-6
3.00000	-9.00000	15.00000	-1.2989	14.760	-230.51E-6	-0.63642	1.6952E-6
4.00000	-9.00000	15.00000	-1.3789	14.760	-246.57E-6	-0.66594	1.7737E-6
5.00000	-9.00000	15.00000	-1.4526	14.760	-259.99E-6	-0.69154	1.8416E-6
6.00000	-9.00000	15.00000	-1.52195	14.760	-270.75E-6	-0.71259	1.8979E-6
7.00000	-9.00000	15.00000	-1.5791	14.760	-278.89E-6	-0.72915	1.9419E-6
8.00000	-9.00000	15.00000	-1.6311	14.760	-284.58E-6	-0.74101	1.9735E-6
9.00000	-9.00000	15.00000	-1.6756	14.760	-287.92E-6	-0.74814	1.9925E-6
10.00000	-9.00000	15.00000	-1.7126	14.760	-289.03E-6	-0.75051	1.9988E-6
11.00000	-9.00000	15.00000	-1.7424	14.760	-287.92E-6	-0.74814	1.9925E-6
12.00000	-9.00000	15.00000	-1.7651	14.760	-284.58E-6	-0.74101	1.9735E-6
13.00000	-9.00000	15.00000	-1.7812	14.760	-278.89E-6	-0.72915	1.9419E-6
14.00000	-9.00000	15.00000	-1.7907	14.760	-270.75E-6	-0.71259	1.8979E-6
15.00000	-9.00000	15.00000	-1.7940	14.760	-259.99E-6	-0.69145	1.8416E-6
16.00000	-9.00000	15.00000	-1.7914	14.760	-246.57E-6	-0.66594	1.7737E-6
17.00000	-9.00000	15.00000	-1.7830	14.760	-230.51E-6	-0.63642	1.6952E-6
18.00000	-9.00000	15.00000	-1.7692	14.760	-212.09E-6	-0.60343	1.6074E-6
19.00000	-9.00000	15.00000	-1.7500	14.760	-191.84E-6	-0.56771	1.5124E-6
20.00000	-9.00000	15.00000	-1.7256	14.760	-170.51E-6	-0.53018	1.4125E-6
21.00000	-9.00000	15.00000	-1.6962	14.760	-149.03E-6	-0.49183	1.3105E-6
22.00000	-9.00000	15.00000	-1.6618	14.760	-128.30E-6	-0.45366	1.2090E-6
23.00000	-9.00000	15.00000	-1.6225	14.760	-109.09E-6	-0.41655	1.1102E-6
24.00000	-9.00000	15.00000	-1.5782	14.760	-91.886E-6	-0.38118	1.0161E-6
25.00000	-9.00000	15.00000	-1.5288	14.760	-76.900E-6	-0.34803	0.0
26.00000	-9.00000	15.00000	-1.4744	14.760	-64.130E-6	-0.31735	0.0
27.00000	-9.00000	15.00000	-1.4148	14.760	-53.415E-6	-0.28925	0.0
28.00000	-9.00000	15.00000	-1.3501	14.760	-44.520		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	40.00000	-9.00000	15.00000	-0.41990	14.760	-6.6054E-6	-0.096310
	41.00000	-9.00000	15.00000	-0.36058	14.760	-5.7773E-6	-0.089454
	42.00000	-9.00000	15.00000	-0.30692	14.760	-5.0697E-6	-0.083206
	43.00000	-9.00000	15.00000	-0.25875	14.760	-4.4627E-6	-0.077503
	44.00000	-9.00000	15.00000	-0.21580	14.760	-3.9401E-6	-0.072289
	45.00000	-9.00000	15.00000	-0.17775	14.760	-3.4867E-6	-0.067514
	46.00000	-9.00000	15.00000	-0.14420	14.760	-3.0974E-6	-0.063136
	47.00000	-9.00000	15.00000	-0.11477	14.760	-2.7572E-6	-0.059114
	48.00000	-9.00000	15.00000	-0.089061	14.760	-2.4604E-6	-0.055414
	49.00000	-9.00000	15.00000	-0.066690	14.760	-2.2008E-6	-0.052007
	50.00000	-9.00000	15.00000	-0.047301	14.760	-1.9732E-6	-0.048864
	51.00000	-9.00000	15.00000	-0.030560	14.760	-1.7729E-6	-0.045960
	52.00000	-9.00000	15.00000	-0.016162	14.760	-1.5964E-6	-0.043276
	53.00000	-9.00000	15.00000	-0.0038294	14.760	-1.4403E-6	-0.040789
	54.00000	-9.00000	15.00000	0.0066875	14.760	-1.3020E-6	-0.038484
	55.00000	-9.00000	15.00000	0.015613	14.760	-1.1792E-6	-0.036344
	-25.00000	-8.00000	15.00000	0.021019	14.760	-3.7264E-6	-0.070175
	-24.00000	-8.00000	15.00000	0.014153	14.760	-4.2221E-6	-0.075272
	-23.00000	-8.00000	15.00000	0.0060355	14.760	-4.7988E-6	-0.080855
	-22.00000	-8.00000	15.00000	-0.0035175	14.760	-5.4721E-6	-0.086982
	-21.00000	-8.00000	15.00000	-0.014742	14.760	-6.2615E-6	-0.093719
	-20.00000	-8.00000	15.00000	-0.027783	14.760	-7.1910E-6	-0.10114
	-19.00000	-8.00000	15.00000	-0.042993	14.760	-8.2904E-6	-0.10933
	-18.00000	-8.00000	15.00000	-0.060639	14.760	-9.5969E-6	-0.11840
	-17.00000	-8.00000	15.00000	-0.081053	14.760	-1.1157E-6	-0.12844
	-16.00000	-8.00000	15.00000	-0.10461	14.760	-1.3103E-6	-0.13960
	-15.00000	-8.00000	15.00000	-0.13170	14.760	-1.5291E-6	-0.15202
	-14.00000	-8.00000	15.00000	-0.16280	14.760	-1.8034E-6	-0.16587
	-13.00000	-8.00000	15.00000	-0.19838	14.760	-2.1380E-6	-0.18135
	-12.00000	-8.00000	15.00000	-0.23896	14.760	-2.5484E-6	-0.19868
	-11.00000	-8.00000	15.00000	-0.28510	14.760	-3.0444E-6	-0.21811
	-10.00000	-8.00000	15.00000	-0.33734	14.760	-3.6809E-6	-0.23992
	-9.00000	-8.00000	15.00000	-0.39624	14.760	-4.4593E-6	-0.26442
	-8.00000	-8.00000	15.00000	-0.46230	14.760	-5.4285E-6	-0.29191
	-7.00000	-8.00000	15.00000	-0.53591	14.760	-6.6343E-6	-0.32271
	-6.00000	-8.00000	15.00000	-0.61733	14.760	-8.1288E-6	-0.35709
	-5.00000	-8.00000	15.00000	-0.70656	14.760	-9.9565E-6	-0.39523
	-4.00000	-8.00000	15.00000	-0.80328	14.760	-1.2188E-6	-0.43713
	-3.00000	-8.00000	15.00000	-0.90674	14.760	-1.4818E-6	-0.48255
	-2.00000	-8.00000	15.00000	-1.0157	14.760	-1.7833E-6	-0.53090
	-1.00000	-8.00000	15.00000	-1.1285	14.760	-2.1152E-6	-0.58125
	0.00000	-8.00000	15.00000	-1.2430	14.760	-2.4634E-6	-0.63215
	1.00000	-8.00000	15.00000	-1.3569	14.760	-2.8098E-6	-0.68218
	2.00000	-8.00000	15.00000	-1.4677	14.760	-3.1363E-6	-0.72974
	3.00000	-8.00000	15.00000	-1.5734	14.760	-3.4285E-6	-0.77346
	4.00000	-8.00000	15.00000	-1.6721	14.760	-3.6778E-6	-0.81231
	5.00000	-8.00000	15.00000	-1.7627	14.760	-3.8816E-6	-0.84559
	6.00000	-8.00000	15.00000	-1.8443	14.760	-4.0411E-6	-0.87293
	7.00000	-8.00000	15.00000	-1.9164	14.760	-4.1595E-6	-0.89417
	8.00000	-8.00000	15.00000	-1.9789	14.760	-4.2407E-6	-0.90930
	9.00000	-8.00000	15.00000	-2.0321	14.760	-4.2881E-6	-0.91835
	10.00000	-8.00000	15.00000	-2.0761	14.760	-4.3036E-6	-0.92136
	11.00000	-8.00000	15.00000	-2.1113	14.760	-4.2881E-6	-0.91835
	12.00000	-8.00000	15.00000	-2.1380	14.760	-4.2407E-6	-0.90930
	13.00000	-8.00000	15.00000	-2.1566	14.760	-4.1595E-6	-0.89417
	14.00000	-8.00000	15.00000	-2.1676	14.760	-4.0411E-6	-0.87293
	15.00000	-8.00000	15.00000	-2.1712	14.760	-3.8816E-6	-0.84559
	16.00000	-8.00000	15.00000	-2.1678	14.760	-3.6778E-6	-0.81231
	17.00000	-8.00000	15.00000	-2.1577	14.760	-3.4285E-6	-0.77346
	18.00000	-8.00000	15.00000	-2.1411	14.760	-3.1363E-6	-0.72974
	19.00000	-8.00000	15.00000	-2.1183	14.760	-2.8098E-6	-0.68218
	20.00000	-8.00000	15.00000	-2.0894	14.760	-2.4634E-6	-0.63215
	21.00000	-8.00000	15.00000	-2.0546	14.760	-2.1152E-6	-0.58125
	22.00000	-8.00000	15.00000	-2.0141	14.760	-1.7833E-6	-0.53090
	23.00000	-8.00000	15.00000	-1.9677	14.760	-1.4818E-6	-0.48255
	24.00000	-8.00000	15.00000	-1.9153	14.760	-1.2188E-6	-0.43713
	25.00000	-8.00000	15.00000	-1.8569	14.760	-9.9565E-6	-0.39523
	26.00000	-8.00000	15.00000	-1.7922	14.760	-8.1288E-6	-0.35709
	27.00000	-8.00000	15.00000	-1.7210	14.760	-6.6343E-6	-0.32271
	28.00000	-8.00000	15.00000	-1.6431	14.760	-5.4285E-6	-0.29191
	29.00000	-8.00000	15.00000	-1.5587	14.760	-4.4593E-6	-0.26442
	30.00000	-8.00000	15.00000	-1.4681	14.760	-3.6809E-6	-0.23992
	31.00000	-8.00000	15.00000	-1.3717	14.760	-3.0444E-6	-0.21811
	32.00000	-8.00000	15.00000	-1.2707	14.760	-2.5484E-6	-0.19868
	33.00000	-8.00000	15.00000	-1.1664	14.760	-2.1380E-6	-0.18135
	34.00000	-8.00000	15.00000	-1.0608	14.760	-1.8034E-6	-0.16587
	35.00000	-8.00000	15.00000	-0.95567	14.760	-1.5291E-6	-0.15202
	36.00000	-8.00000	15.00000	-0.85308	14.760	-1.3030E-6	-0.13960
	37.00000	-8.00000	15.00000	-0.75481	14.760	-1.1157E-6	-0.12844
	38.00000	-8.00000	15.00000	-0.66223	14.760	-9.5969E-6	-0.11840
	39.00000	-8.00000	15.00000	-0.57634	14.760	-8.2904E-6	-0.10933
	40.00000	-8.00000	15.00000	-0.49767	14.760	-7.1910E-6	-0.10114
	41.00000	-8.00000	15.00000	-0.42639	14.760	-6.2615E-6	-0.093719
	42.00000	-8.00000	15.00000	-0.36241	14.760	-5.4721E-6	-0.086982
	43.00000	-8.00000	15.00000	-0.30541	14.760	-4.7988E-6	-0.080855
	44.00000	-8.00000	15.00000	-0.25497	14.760	-4.2221E-6	-0.075272
	45.00000	-8.00000	15.00000	-0.21055	14.760	-3.7264E-6	-0.070175
	46.00000	-8.00000	15.00000	-0.17164	14.760	-3.2985E-6	-0.065515
	47.00000	-8.00000	15.00000	-0.13769	14.760	-2.9280E-6	-0.061246
	48.00000	-8.00000	15.00000	-0.10817	14.760	-2.6061E-6	-0.057329
	49.00000	-8.00000	15.00000	-0.082604	14.760	-2.3256E-6	-0.053729
	50.00000	-8.00000	15.00000	-0.060531	14.760	-2.0803E-6	-0.050417
	51.00000	-8.00000	15.00000	-0.041539	14.760	-1.8652E-6	-0.047363
	52.00000	-8.00000	15.00000	-0.025252	14.760	-1.6761E-6	-0.044545
	53.00000	-8.00000	15.00000	-0.011337	14.760	-1.5093E-6	-0.041940
	54.00000	-8.00000	15.00000	506.45E-6	14.760	1.3620E-6	-0.039529
	55.00000	-8.00000	15.00000	0.010543	14.760	-1.2315E-6	-0.037295
	-25.00000	-7.00000	15.00000	0.017629	14.760	-3.9725E-6	-0.072866
	-24.00000	-7.00000	15.00000	0.010028	14.760	-4.5153E-6	-0.078296
	-23.00000	-7.00000	15.00000	0.0010368	14.760	-5.1496E-6	-0.084262
	-22.00000	-7.00000	15.00000	-0.0095549	14.760	-5.8941E-6	-0.090833
	-21.00000	-7.00000	15.00000	-0.021984	14.760	-6.7718E-6	-0.098083
	-20.00000	-7.00000	15.00000	-0.036523	14.760	-7.8117E-6	-0.10610
	-19.00000	-7.00000	15.00000	-0.053479	14.760	-9.0499E-6	-0.11499
	-18.00000	-7.00000	15.00000	-0.073201	14.760	-1.0533E-6	-0.12487
	-17.00000	-7.00000	15.00000	-0.096086	14.760	-1.2318E-6	-0.13589
	-16.00000	-7.00000	15.00000	-0.12258	14.760	-1.4482E-6	-0.14817
	-15.00000	-7.00000	15.00000	-0.15318	14.760	-1.7120E-6	-0.16194
	-14.00000	-7.00000	15.00000	-0.18844	14.760	-2.0360E-6	-0.17741
	-13.00000	-7.00000	15.00000	-0.22899	14.760	-2.4366E-6	-0.19483
	-12.00000	-7.00000	15.00000	-0.27548	14.760	-2.9356E-6	-0.21450
	-11.00000	-7.00000	15.00000	-0.32866	14.760	-3.5616E-6	-0.23679
	-10.00000	-7.00000	15.00000	-0.38927	14.760	-4.3526E-6	-0.26208
	-9.00000	-7.00000	15.00000	-0.45811	14.760	-5.3583E-6	-0.29084
	-8.00000	-7.00000	15.00000	-0.53592	14.760	-6.6440E-6	-0.32359
	-7.00000	-7.00000	15.00000	-0.62340	14.760	-8.2525E-6	-0.36097
	-6.00000	-7.00000	15.00000	-0.72105	14.760	-1.0406E-6	-0.40322
	-5.00000	-7.00000	15.00000	-0.82910	14.760	-1.3100E-6	-0.45111
	-4.00000	-7.00000	15.00000	-0.94738	14.760	-1.6493E-6	-0.50481
	-3.00000	-7.00000	15.00000	-1.0751	14.760	-2.0667E-6	-0.56420
	-2.00000	-7.00000	15.00000	-1.2108	14.760	-2.5627E-6	-0.62688
	-1.00000	-7.00000	15.00000	-1.3521	14.760	-3.1243E-6	-0.69668
	0.00000	-7.00000	15.00000	-1.4960	14.760	-3.7231E-6	-0.76628
	1.00000	-7.00000	15.00000	-1.6393	14.760	-4.3198E-6	-0.83486
	2.00000	-7.00000	15.00000	-1.7784	14.760	-4.8751E-6	-0.89985
	3.00000	-7.00000	15.00000	-1.9104	14.760		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
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Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [m]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
8.00000	-7.00000	15.00000	-2.4062	14.760	-661.05E-6	-1.1376	3.0262E-6
9.00000	-7.00000	15.00000	-2.4695	14.760	-667.76E-6	-1.1491	3.0568E-6
10.00000	-7.00000	15.00000	-2.5216	14.760	-669.94E-6	-1.1530	3.0670E-6
11.00000	-7.00000	15.00000	-2.5630	14.760	-667.76E-6	-1.1491	3.0568E-6
12.00000	-7.00000	15.00000	-2.5942	14.760	-661.05E-6	-1.1376	3.0262E-6
13.00000	-7.00000	15.00000	-2.6158	14.760	-649.37E-6	-1.1182	2.9747E-6
14.00000	-7.00000	15.00000	-2.6283	14.760	-631.98E-6	-1.0908	2.9017E-6
15.00000	-7.00000	15.00000	-2.6321	14.760	-607.91E-6	-1.0551	2.8068E-6
16.00000	-7.00000	15.00000	-2.6277	14.760	-576.17E-6	-1.0111	2.6899E-6
17.00000	-7.00000	15.00000	-2.6154	14.760	-536.03E-6	-0.95910	2.5516E-6
18.00000	-7.00000	15.00000	-2.5955	14.760	-487.51E-6	-0.89985	2.3943E-6
19.00000	-7.00000	15.00000	-2.5683	14.760	-431.98E-6	-0.83486	2.2217E-6
20.00000	-7.00000	15.00000	-2.5341	14.760	-372.31E-6	-0.76628	2.0396E-6
21.00000	-7.00000	15.00000	-2.4931	14.760	-312.43E-6	-0.69668	1.8547E-6
22.00000	-7.00000	15.00000	-2.4453	14.760	-256.27E-6	-0.62862	1.6740E-6
23.00000	-7.00000	15.00000	-2.3906	14.760	-206.67E-6	-0.56420	1.5028E-6
24.00000	-7.00000	15.00000	-2.3289	14.760	-164.93E-6	-0.50481	1.3449E-6
25.00000	-7.00000	15.00000	-2.2599	14.760	-131.00E-6	-0.45111	1.2021E-6
26.00000	-7.00000	15.00000	-2.1831	14.760	-104.06E-6	-0.40322	1.0747E-6
27.00000	-7.00000	15.00000	-2.0982	14.760	-82.925E-6	-0.36087	0.0
28.00000	-7.00000	15.00000	-2.0046	14.760	-66.440E-6	-0.32359	0.0
29.00000	-7.00000	15.00000	-1.9024	14.760	-53.583E-6	-0.29084	0.0
30.00000	-7.00000	15.00000	-1.7915	14.760	-43.526E-6	-0.26208	0.0
31.00000	-7.00000	15.00000	-1.6727	14.760	-35.616E-6	-0.23679	0.0
32.00000	-7.00000	15.00000	-1.5471	14.760	-29.356E-6	-0.21450	0.0
33.00000	-7.00000	15.00000	-1.4167	14.760	-24.366E-6	-0.19487	0.0
34.00000	-7.00000	15.00000	-1.2840	14.760	-20.360E-6	-0.17741	0.0
35.00000	-7.00000	15.00000	-1.1520	14.760	-17.120E-6	-0.16194	0.0
36.00000	-7.00000	15.00000	-1.0236	14.760	-14.482E-6	-0.14817	0.0
37.00000	-7.00000	15.00000	-0.90119	14.760	-12.318E-6	-0.13587	0.0
38.00000	-7.00000	15.00000	-0.78682	14.760	-10.533E-6	-0.12488	0.0
39.00000	-7.00000	15.00000	-0.68166	14.760	-9.0499E-6	-0.11499	0.0
40.00000	-7.00000	15.00000	-0.58624	14.760	-7.8117E-6	-0.10610	0.0
41.00000	-7.00000	15.00000	-0.50062	14.760	-6.7718E-6	-0.098083	0.0
42.00000	-7.00000	15.00000	-0.42445	14.760	-5.8941E-6	-0.090833	0.0
43.00000	-7.00000	15.00000	-0.35718	14.760	-5.1496E-6	-0.084268	0.0
44.00000	-7.00000	15.00000	-0.29810	14.760	-4.5153E-6	-0.078296	0.0
45.00000	-7.00000	15.00000	-0.24646	14.760	-3.9725E-6	-0.072866	0.0
46.00000	-7.00000	15.00000	-0.20150	14.760	-3.5061E-6	-0.067915	0.0
47.00000	-7.00000	15.00000	-0.16250	14.760	-3.1038E-6	-0.063391	0.0
48.00000	-7.00000	15.00000	-0.12887	14.760	-2.7556E-6	-0.059252	0.0
49.00000	-7.00000	15.00000	-0.099701	14.760	-2.4531E-6	-0.055456	0.0
50.00000	-7.00000	15.00000	-0.074699	14.760	-2.1895E-6	-0.051971	0.0
51.00000	-7.00000	15.00000	-0.053263	14.760	-1.9590E-6	-0.048764	0.0
52.00000	-7.00000	15.00000	-0.034938	14.760	-1.7569E-6	-0.045811	0.0
53.00000	-7.00000	15.00000	-0.019321	14.760	-1.5793E-6	-0.043084	0.0
54.00000	-7.00000	15.00000	-0.0060573	14.760	-1.4226E-6	-0.040568	0.0
55.00000	-7.00000	15.00000	0.0051641	14.760	-1.2842E-6	-0.038238	0.0
-25.00000	-6.00000	15.00000	0.014093	14.760	-4.2259E-6	-0.075574	0.0
-24.00000	-6.00000	15.00000	0.0057257	14.760	-4.8183E-6	-0.081347	0.0
-23.00000	-6.00000	15.00000	-0.0041799	14.760	-5.5137E-6	-0.087549	0.0
-22.00000	-6.00000	15.00000	-0.015861	14.760	-6.3338E-6	-0.094740	0.0
-21.00000	-6.00000	15.00000	-0.029590	14.760	-7.3060E-6	-0.10252	0.0
-20.00000	-6.00000	15.00000	-0.045678	14.760	-8.4648E-6	-0.11117	0.0
-19.00000	-6.00000	15.00000	-0.064483	14.760	-9.8538E-6	-0.12079	0.0
-18.00000	-6.00000	15.00000	-0.086414	14.760	-11.5294E-6	-0.13153	0.0
-17.00000	-6.00000	15.00000	-0.11194	14.760	-13.564E-6	-0.14356	0.0
-16.00000	-6.00000	15.00000	-0.14159	14.760	-16.052E-6	-0.15707	0.0
-15.00000	-6.00000	15.00000	-0.17597	14.760	-19.118E-6	-0.17231	0.0
-14.00000	-6.00000	15.00000	-0.21576	14.760	-22.928E-6	-0.18954	0.0
-13.00000	-6.00000	15.00000	-0.26174	14.760	-27.704E-6	-0.20910	0.0
-12.00000	-6.00000	15.00000	-0.31475	14.760	-33.746E-6	-0.23139	0.0
-11.00000	-6.00000	15.00000	-0.37576	14.760	-41.467E-6	-0.25690	0.0
-10.00000	-6.00000	15.00000	-0.44578	14.760	-51.430E-6	-0.28620	0.0
-9.00000	-6.00000	15.00000	-0.52592	14.760	-64.418E-6	-0.31997	0.0
-8.00000	-6.00000	15.00000	-0.61729	14.760	-81.510E-6	-0.35903	0.0
-7.00000	-6.00000	15.00000	-0.72099	14.760	-104.19E-6	-0.40430	1.0776E-6
-6.00000	-6.00000	15.00000	-0.83797	14.760	-134.43E-6	-0.45679	1.2172E-6
-5.00000	-6.00000	15.00000	-0.96888	14.760	-174.78E-6	-0.51754	1.3787E-6
-4.00000	-6.00000	15.00000	-1.1139	14.760	-228.17E-6	-0.58740	1.5644E-6
-3.00000	-6.00000	15.00000	-1.2723	14.760	-297.42E-6	-0.66674	1.7750E-6
-2.00000	-6.00000	15.00000	-1.4423	14.760	-383.92E-6	-0.75499	2.0092E-6
-1.00000	-6.00000	15.00000	-1.6210	14.760	-485.91E-6	-0.85021	2.2618E-6
0.00000	-6.00000	15.00000	-1.8039	14.760	-597.23E-6	-0.94888	2.5234E-6
1.00000	-6.00000	15.00000	-1.9860	14.760	-708.32E-6	-1.0464	2.7820E-6
2.00000	-6.00000	15.00000	-2.1622	14.760	-809.58E-6	-1.1382	3.0254E-6
3.00000	-6.00000	15.00000	-2.3282	14.760	-894.81E-6	-1.2207	3.2442E-6
4.00000	-6.00000	15.00000	-2.4808	14.760	-962.20E-6	-1.2918	3.4329E-6
5.00000	-6.00000	15.00000	-2.6182	14.760	-0.0010130	-1.3508	3.5896E-6
6.00000	-6.00000	15.00000	-2.7397	14.760	-0.0010500	-1.3978	3.7145E-6
7.00000	-6.00000	15.00000	-2.8481	14.760	-0.0010755	-1.4334	3.8091E-6
8.00000	-6.00000	15.00000	-2.9351	14.760	-0.0010925	-1.4583	3.8752E-6
9.00000	-6.00000	15.00000	-3.0103	14.760	-0.0011020	-1.4729	3.9142E-6
10.00000	-6.00000	15.00000	-3.0716	14.760	-0.0011051	-1.4778	3.9271E-6
11.00000	-6.00000	15.00000	-3.1200	14.760	-0.0011020	-1.4729	3.9142E-6
12.00000	-6.00000	15.00000	-3.1563	14.760	-0.0010925	-1.4583	3.8752E-6
13.00000	-6.00000	15.00000	-3.1811	14.760	-0.0010757	-1.4334	3.8091E-6
14.00000	-6.00000	15.00000	-3.1952	14.760	-0.0010500	-1.3978	3.7145E-6
15.00000	-6.00000	15.00000	-3.1991	14.760	-0.0010130	-1.3508	3.5896E-6
16.00000	-6.00000	15.00000	-3.1933	14.760	-962.20E-6	-1.2918	3.4329E-6
17.00000	-6.00000	15.00000	-3.1783	14.760	-894.81E-6	-1.2207	3.2442E-6
18.00000	-6.00000	15.00000	-3.1545	14.760	-809.58E-6	-1.1382	3.0254E-6
19.00000	-6.00000	15.00000	-3.1221	14.760	-708.32E-6	-1.0464	2.7820E-6
20.00000	-6.00000	15.00000	-3.0816	14.760	-597.23E-6	-0.94888	2.5234E-6
21.00000	-6.00000	15.00000	-3.0331	14.760	-485.91E-6	-0.85021	2.2618E-6
22.00000	-6.00000	15.00000	-2.9768	14.760	-383.92E-6	-0.75499	2.0092E-6
23.00000	-6.00000	15.00000	-2.9126	14.760	-297.42E-6	-0.66674	1.7750E-6
24.00000	-6.00000	15.00000	-2.8401	14.760	-228.17E-6	-0.58740	1.5644E-6
25.00000	-6.00000	15.00000	-2.7588	14.760	-174.78E-6	-0.51754	1.3787E-6
26.00000	-6.00000	15.00000	-2.6680	14.760	-134.43E-6	-0.45679	1.2172E-6
27.00000	-6.00000	15.00000	-2.5669	14.760	-104.19E-6	-0.40430	1.0776E-6
28.00000	-6.00000	15.00000	-2.4547	14.760	-81.510E-6	-0.35903	0.0
29.00000	-6.00000	15.00000	-2.3307	14.760	-64.418E-6	-0.31997	0.0
30.00000	-6.00000	15.00000	-2.1949	14.760	-51.430E-6	-0.28620	0.0
31.00000	-6.00000	15.00000	-2.0475	14.760	-41.467E-6	-0.25690	0.0
32.00000	-6.00000	15.00000	-1.8902	14.760	-33.746E-6	-0.23139	0.0
33.00000	-6.00000	15.00000	-1.7255	14.760	-27.704E-6	-0.20910	0.0
34.00000	-6.00000	15.00000	-1.5571	14.760	-22.928E-6	-0.18954	0.0
35.00000	-6.00000	15.00000	-1.3895	14.760	-19.118E-6	-0.17231	0.0
36.00000	-6.00000	15.00000	-1.2270	14.760	-16.052E-6	-0.15707	0.0
37.00000	-6.00000	15.00000	-1.0735	14.760	-13.564E-6	-0.14356	0.0
38.00000	-6.00000	15.00000	-0.93145	14.760	-11.529E-6	-0.13153	0.0
39.00000	-6.00000	15.00000	-0.80231	14.760	-9.8538E-6	-0.12079	0.0
40.00000	-6.00000	15.00000	-0.68651	14.760	-8.4648E-6	-0.11117	0.0
41.00000	-6.00000	15.00000	-0.58374	14.760	-7.3060E-6	-0.10252	0.0
42.00000	-6.00000	15.00000	-0.49327	14.760	-6.3338E-6	-0.094740	0.0
43.00000	-6.00000	15.00000	-0.41412	14.760	-5.5137E-6	-0.087710	0.0
44.00000	-6.00000	15.00000	-0.34520	14.760	-4.8183E-6	-0.081347	0.0
45.00000	-6.00000	15.00000					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-24.00000	-5.00000	15.00000	0.0012738	14.760	-5.1294E-6	-0.084411	0.0
-23.00000	-5.00000	15.00000	-0.0095806	14.760	-5.8888E-6	-0.091181	0.0
-22.00000	-5.00000	15.00000	-0.022396	14.760	-6.7888E-6	-0.098684	0.0
-21.00000	-5.00000	15.00000	-0.037480	14.760	-7.8613E-6	-0.10702	0.0
-20.00000	-5.00000	15.00000	-0.055190	14.760	-9.1469E-6	-0.11631	0.0
-19.00000	-5.00000	15.00000	-0.075938	14.760	-10.698E-6	-0.12670	0.0
-18.00000	-5.00000	15.00000	-0.10020	14.760	-12.582E-6	-0.13835	0.0
-17.00000	-5.00000	15.00000	-0.12852	14.760	-14.888E-6	-0.15146	0.0
-16.00000	-5.00000	15.00000	-0.16152	14.760	-17.734E-6	-0.16627	0.0
-15.00000	-5.00000	15.00000	-0.19995	14.760	-21.278E-6	-0.18306	0.0
-14.00000	-5.00000	15.00000	-0.24781	14.760	-25.733E-6	-0.20220	0.0
-13.00000	-5.00000	15.00000	-0.29647	14.760	-31.393E-6	-0.22410	0.0
-12.00000	-5.00000	15.00000	-0.35660	14.760	-38.669E-6	-0.24929	0.0
-11.00000	-5.00000	15.00000	-0.42622	14.760	-48.138E-6	-0.27841	0.0
-10.00000	-5.00000	15.00000	-0.50671	14.760	-60.627E-6	-0.31227	0.0
-9.00000	-5.00000	15.00000	-0.59956	14.760	-77.339E-6	-0.35186	0.0
-8.00000	-5.00000	15.00000	-0.70640	14.760	-100.03E-6	-0.39843	1.0620E-6
-7.00000	-5.00000	15.00000	-0.82891	14.760	-131.30E-6	-0.45348	1.2084E-6
-6.00000	-5.00000	15.00000	-0.96874	14.760	-174.95E-6	-0.51886	1.3822E-6
-5.00000	-5.00000	15.00000	-1.1273	14.760	-236.44E-6	-0.59664	1.5889E-6
-4.00000	-5.00000	15.00000	-1.3054	14.760	-323.18E-6	-0.68898	1.8340E-6
-3.00000	-5.00000	15.00000	-1.5028	14.760	-443.94E-6	-0.79760	2.1220E-6
-2.00000	-5.00000	15.00000	-1.7178	14.760	-606.09E-6	-0.92281	2.4537E-6
-1.00000	-5.00000	15.00000	-1.9463	14.760	-809.50E-6	-1.0621	2.8222E-6
0.00000	-5.00000	15.00000	-2.1819	14.760	-0.0010399	-1.2093	3.2114E-6
1.00000	-5.00000	15.00000	-2.41616	14.760	-0.0012700	-1.3552	3.5972E-6
2.00000	-5.00000	15.00000	-2.6425	14.760	-0.0014726	-1.4907	3.9556E-6
3.00000	-5.00000	15.00000	-2.8530	14.760	-0.0016333	-1.6095	4.2702E-6
4.00000	-5.00000	15.00000	-3.0441	14.760	-0.0017519	-1.7089	4.5337E-6
5.00000	-5.00000	15.00000	-3.2139	14.760	-0.0018356	-1.7891	4.7465E-6
6.00000	-5.00000	15.00000	-3.3620	14.760	-0.0018939	-1.8515	4.9120E-6
7.00000	-5.00000	15.00000	-3.4890	14.760	-0.0019314	-1.8978	5.0351E-6
8.00000	-5.00000	15.00000	-3.5963	14.760	-0.0019556	-1.9297	5.1198E-6
9.00000	-5.00000	15.00000	-3.6852	14.760	-0.0019689	-1.9483	5.1693E-6
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11.00000	-5.00000	15.00000	-3.8134	14.760	-0.0019689	-1.9483	5.1693E-6
12.00000	-5.00000	15.00000	-3.8552	14.760	-0.0019556	-1.9297	5.1198E-6
13.00000	-5.00000	15.00000	-3.8835	14.760	-0.0019314	-1.8978	5.0351E-6
14.00000	-5.00000	15.00000	-3.8993	14.760	-0.0018931	-1.8515	4.9120E-6
15.00000	-5.00000	15.00000	-3.9031	14.760	-0.0018356	-1.7891	4.7465E-6
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17.00000	-5.00000	15.00000	-3.8773	14.760	-0.0016333	-1.6095	4.2702E-6
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19.00000	-5.00000	15.00000	-3.8099	14.760	-0.0012700	-1.3552	3.5972E-6
20.00000	-5.00000	15.00000	-3.7617	14.760	-0.0010399	-1.2093	3.2114E-6
21.00000	-5.00000	15.00000	-3.7044	14.760	-809.50E-6	-1.0621	2.8222E-6
22.00000	-5.00000	15.00000	-3.6382	14.760	-606.09E-6	-0.92281	2.4537E-6
23.00000	-5.00000	15.00000	-3.5628	14.760	-443.94E-6	-0.79760	2.1220E-6
24.00000	-5.00000	15.00000	-3.4779	14.760	-323.18E-6	-0.68898	1.8340E-6
25.00000	-5.00000	15.00000	-3.3826	14.760	-236.44E-6	-0.59664	1.5889E-6
26.00000	-5.00000	15.00000	-3.2756	14.760	-174.95E-6	-0.51886	1.3822E-6
27.00000	-5.00000	15.00000	-3.1557	14.760	-131.30E-6	-0.45348	1.2084E-6
28.00000	-5.00000	15.00000	-3.0213	14.760	-100.03E-6	-0.39843	1.0620E-6
29.00000	-5.00000	15.00000	-2.8712	14.760	-77.339E-6	-0.35186	0.0
30.00000	-5.00000	15.00000	-2.7043	14.760	-60.627E-6	-0.31227	0.0
31.00000	-5.00000	15.00000	-2.5208	14.760	-48.138E-6	-0.27841	0.0
32.00000	-5.00000	15.00000	-2.3219	14.760	-38.669E-6	-0.24929	0.0
33.00000	-5.00000	15.00000	-2.1113	14.760	-31.393E-6	-0.22410	0.0
34.00000	-5.00000	15.00000	-1.8944	14.760	-25.733E-6	-0.20220	0.0
35.00000	-5.00000	15.00000	-1.6785	14.760	-21.278E-6	-0.18306	0.0
36.00000	-5.00000	15.00000	-1.4704	14.760	-17.734E-6	-0.16627	0.0
37.00000	-5.00000	15.00000	-1.2760	14.760	-14.888E-6	-0.15146	0.0
38.00000	-5.00000	15.00000	-1.0986	14.760	-12.582E-6	-0.13835	0.0
39.00000	-5.00000	15.00000	-0.93964	14.760	-10.698E-6	-0.12670	0.0
40.00000	-5.00000	15.00000	-0.79910	14.760	-9.1469E-6	-0.11631	0.0
41.00000	-5.00000	15.00000	-0.67601	14.760	-7.8613E-6	-0.10702	0.0
42.00000	-5.00000	15.00000	-0.56890	14.760	-6.7888E-6	-0.098684	0.0
43.00000	-5.00000	15.00000	-0.47616	14.760	-5.8888E-6	-0.091181	0.0
44.00000	-5.00000	15.00000	-0.39614	14.760	-5.1294E-6	-0.084411	0.0
45.00000	-5.00000	15.00000	-0.32728	14.760	-4.4853E-6	-0.078287	0.0
46.00000	-5.00000	15.00000	-0.26816	14.760	-3.9364E-6	-0.072739	0.0
47.00000	-5.00000	15.00000	-0.21750	14.760	-3.4665E-6	-0.067686	0.0
48.00000	-5.00000	15.00000	-0.17416	14.760	-3.0626E-6	-0.063088	0.0
49.00000	-5.00000	15.00000	-0.13714	14.760	-2.7140E-6	-0.058892	0.0
50.00000	-5.00000	15.00000	-0.10557	14.760	-2.4120E-6	-0.055054	0.0
51.00000	-5.00000	15.00000	-0.078708	14.760	-2.1496E-6	-0.051539	0.0
52.00000	-5.00000	15.00000	-0.055886	14.760	-1.9206E-6	-0.048310	0.0
53.00000	-5.00000	15.00000	-0.036540	14.760	-1.7204E-6	-0.045343	0.0
54.00000	-5.00000	15.00000	-0.020184	14.760	-1.5446E-6	-0.042610	0.0
55.00000	-5.00000	15.00000	-0.0063949	14.760	-1.3899E-6	-0.040089	0.0
56.00000	-5.00000	15.00000	-0.0068299	14.760	-4.7488E-6	-0.0009909	0.0
-24.00000	-4.00000	15.00000	-0.0032944	14.760	-5.4465E-6	-0.087471	0.0
-23.00000	-4.00000	15.00000	-0.015126	14.760	-6.2725E-6	-0.094655	0.0
-22.00000	-4.00000	15.00000	-0.029111	14.760	-7.2559E-6	-0.10264	0.0
-21.00000	-4.00000	15.00000	-0.045598	14.760	-8.4337E-6	-0.11155	0.0
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-19.00000	-4.00000	15.00000	-0.087760	14.760	-11.576E-6	-0.13268	0.0
-18.00000	-4.00000	15.00000	-0.11445	14.760	-13.684E-6	-0.14528	0.0
-17.00000	-4.00000	15.00000	-0.14570	14.760	-16.283E-6	-0.15952	0.0
-16.00000	-4.00000	15.00000	-0.18224	14.760	-19.519E-6	-0.17569	0.0
-15.00000	-4.00000	15.00000	-0.22494	14.760	-23.587E-6	-0.19415	0.0
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-13.00000	-4.00000	15.00000	-0.33293	14.760	-35.420E-6	-0.23974	0.0
-12.00000	-4.00000	15.00000	-0.40073	14.760	-44.112E-6	-0.26808	0.0
-11.00000	-4.00000	15.00000	-0.47972	14.760	-55.634E-6	-0.30120	0.0
-10.00000	-4.00000	15.00000	-0.57168	14.760	-71.16E-6	-0.34018	0.0
-9.00000	-4.00000	15.00000	-0.67864	14.760	-92.513E-6	-0.38644	1.0301E-6
-8.00000	-4.00000	15.00000	-0.80289	14.760	-122.46E-6	-0.44183	1.1775E-6
-7.00000	-4.00000	15.00000	-0.94694	14.760	-165.44E-6	-0.50874	1.3554E-6
-6.00000	-4.00000	15.00000	-1.1135	14.760	-228.57E-6	-0.59032	1.5722E-6
-5.00000	-4.00000	15.00000	-1.3051	14.760	-323.41E-6	-0.69061	1.8340E-6
-4.00000	-4.00000	15.00000	-1.5241	14.760	-468.35E-6	-0.81453	2.1668E-6
-3.00000	-4.00000	15.00000	-1.7715	14.760	-690.60E-6	-0.96737	2.5712E-6
-2.00000	-4.00000	15.00000	-2.0461	14.760	-0.0010229	-1.1529	3.0613E-6
-1.00000	-4.00000	15.00000	-2.3429	14.760	-0.0014840	-1.3696	3.6324E-6
0.00000	-4.00000	15.00000	-2.6523	14.760	-0.0020406	-1.6061	4.2543E-6
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2.00000	-4.00000	15.00000	-3.2546	14.760	-0.0030571	-2.0534	5.4325E-6
3.00000	-4.00000	15.00000	-3.5243	14.760	-0.0033877	-2.2319	5.9036E-6
4.00000	-4.00000	15.00000	-3.7647	14.760	-0.0036075	-2.3746	6.2809E-6
5.00000	-4.00000	15.00000	-3.9746	14.760	-0.0037490	-2.4856	6.5734E-6
6.00000	-4.00000	15.00000	-4.1547	14.760	-0.0038391	-2.5680	6.7937E-6
7.00000	-4.00000	15.00000	-4.3072	14.760	-0.0038959	-2.6282	6.9534E-6
8.00000	-4.00000	15.00000	-4.4344	14.760	-0.0039304	-2.6689	7.0615E-6
9.00000	-4.00000	15.00000	-4.5388	14.760	-0.0039490	-2.6925	7.1241E-6
10.00000	-4.00000	15.00000	-4.6226	14.760	-0.0039549	-2.7002	7.1445E-6
11.00000	-4.00000	15.00000	-4.6876	14.760	-0.0039490	-2.6925	7.1241E-6
12.00000	-4.00000	15.00000	-4.7355	14.760	-0.0039304	-2.6689	7.0615E-6
13.00000	-4.00000	15.00000					

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X	Y	Z[Level]	Calc Level	Vert Stress	Sum Princ	Vert Strain	
[m]	[m]	[mOD]	[mOD]	[kN/m²]	[kN/m²]	[-]	
25.00000	-4.00000	15.00000	-4.1730	14.760	-323.41E-6	-0.69061	1.8384E-6
26.00000	-4.00000	15.00000	-4.0477	14.760	-228.57E-6	-0.59032	1.5722E-6
27.00000	-4.00000	15.00000	-3.9061	14.760	-165.44E-6	-0.50874	1.3554E-6
28.00000	-4.00000	15.00000	-3.7459	14.760	-122.46E-6	-0.44183	1.1775E-6
29.00000	-4.00000	15.00000	-3.5643	14.760	-92.513E-6	-0.38644	1.0301E-6
30.00000	-4.00000	15.00000	-3.3592	14.760	-71.168E-6	-0.34018	0.0
31.00000	-4.00000	15.00000	-3.1293	14.760	-55.634E-6	-0.30120	0.0
32.00000	-4.00000	15.00000	-2.8753	14.760	-44.112E-6	-0.26808	0.0
33.00000	-4.00000	15.00000	-2.6015	14.760	-35.420E-6	-0.23974	0.0
34.00000	-4.00000	15.00000	-2.3166	14.760	-28.760E-6	-0.21532	0.0
35.00000	-4.00000	15.00000	-2.0328	14.760	-23.587E-6	-0.19415	0.0
36.00000	-4.00000	15.00000	-1.7621	14.760	-19.519E-6	-0.17569	0.0
37.00000	-4.00000	15.00000	-1.5132	14.760	-16.283E-6	-0.15952	0.0
38.00000	-4.00000	15.00000	-1.2904	14.760	-13.684E-6	-0.14528	0.0
39.00000	-4.00000	15.00000	-1.0945	14.760	-11.576E-6	-0.13268	0.0
40.00000	-4.00000	15.00000	-0.92419	14.760	-9.8533E-6	-0.12151	0.0
41.00000	-4.00000	15.00000	-0.77727	14.760	-8.4337E-6	-0.11155	0.0
42.00000	-4.00000	15.00000	-0.65106	14.760	-7.2559E-6	-0.10264	0.0
43.00000	-4.00000	15.00000	-0.54299	14.760	-6.2725E-6	-0.094655	0.0
44.00000	-4.00000	15.00000	-0.45062	14.760	-5.4465E-6	-0.087471	0.0
45.00000	-4.00000	15.00000	-0.37179	14.760	-4.7488E-6	-0.080990	0.0
46.00000	-4.00000	15.00000	-0.30458	14.760	-4.1565E-6	-0.075129	0.0
47.00000	-4.00000	15.00000	-0.24734	14.760	-3.6512E-6	-0.069814	0.0
48.00000	-4.00000	15.00000	-0.19864	14.760	-3.2183E-6	-0.064984	0.0
49.00000	-4.00000	15.00000	-0.15724	14.760	-2.8459E-6	-0.060585	0.0
50.00000	-4.00000	15.00000	-0.12208	14.760	-2.5242E-6	-0.056570	0.0
51.00000	-4.00000	15.00000	-0.092258	14.760	-2.2452E-6	-0.052898	0.0
52.00000	-4.00000	15.00000	-0.067006	14.760	-2.0026E-6	-0.049533	0.0
53.00000	-4.00000	15.00000	-0.045658	14.760	-1.7908E-6	-0.046444	0.0
54.00000	-4.00000	15.00000	-0.027648	14.760	-1.6053E-6	-0.043604	0.0
55.00000	-4.00000	15.00000	-0.012493	14.760	-1.4424E-6	-0.040989	0.0
-25.00000	-3.00000	15.00000	0.0028666	14.760	-5.0146E-6	-0.083668	0.0
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-22.00000	-3.00000	15.00000	-0.035952	14.760	-7.7317E-6	-0.10659	0.0
-21.00000	-3.00000	15.00000	-0.053877	14.760	-9.0187E-6	-0.11607	0.0
-20.00000	-3.00000	15.00000	-0.074999	14.760	-10.578E-6	-0.12671	0.0
-19.00000	-3.00000	15.00000	-0.099852	14.760	-12.482E-6	-0.13870	0.0
-18.00000	-3.00000	15.00000	-0.12906	14.760	-14.825E-6	-0.15227	0.0
-17.00000	-3.00000	15.00000	-0.16334	14.760	-17.736E-6	-0.16768	0.0
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-9.00000	-3.00000	15.00000	-0.76250	14.760	-109.95E-6	-0.42349	1.1287E-6
-8.00000	-3.00000	15.00000	-0.90600	14.760	-149.01E-6	-0.48902	1.3030E-6
-7.00000	-3.00000	15.00000	-1.0743	14.760	-207.46E-6	-0.56999	1.5182E-6
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8.00000	-3.00000	15.00000	-5.5180	14.760	-0.0095005	-3.9484	10.388E-6
9.00000	-3.00000	15.00000	-5.6397	14.760	-0.0095258	-3.9779	10.466E-6
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15.00000	-3.00000	15.00000	-5.9232	14.760	-0.0092279	-3.7087	9.7524E-6
16.00000	-3.00000	15.00000	-5.9106	14.760	-0.0089855	-3.5555	9.3473E-6
17.00000	-3.00000	15.00000	-5.8830	14.760	-0.0085583	-3.3458	8.7943E-6
18.00000	-3.00000	15.00000	-5.8407	14.760	-0.0078035	-3.0635	8.0528E-6
19.00000	-3.00000	15.00000	-5.7843	14.760	-0.0065530	-2.6998	7.1020E-6
20.00000	-3.00000	15.00000	-5.7147	14.760	-0.0048413	-2.2750	5.9955E-6
21.00000	-3.00000	15.00000	-5.6333	14.760	-0.0031292	-1.8487	4.8849E-6
22.00000	-3.00000	15.00000	-5.5410	14.760	-0.0018776	-1.4804	3.9218E-6
23.00000	-3.00000	15.00000	-5.4379	14.760	-0.0011209	-1.1903	3.1596E-6
24.00000	-3.00000	15.00000	-5.3229	14.760	-690.92E-6	-0.96940	2.5767E-6
25.00000	-3.00000	15.00000	-5.1938	14.760	-444.48E-6	-0.80124	2.1317E-6
26.00000	-3.00000	15.00000	-5.0480	14.760	-298.11E-6	-0.67160	1.7880E-6
27.00000	-3.00000	15.00000	-4.8821	14.760	-207.46E-6	-0.56999	1.5182E-6
28.00000	-3.00000	15.00000	-4.6921	14.760	-149.01E-6	-0.48902	1.3030E-6
29.00000	-3.00000	15.00000	-4.4735	14.760	-109.95E-6	-0.42349	1.1287E-6
30.00000	-3.00000	15.00000	-4.2217	14.760	-83.010E-6	-0.36972	0.0
31.00000	-3.00000	15.00000	-3.9325	14.760	-63.905E-6	-0.32508	0.0
32.00000	-3.00000	15.00000	-3.6042	14.760	-50.032E-6	-0.28762	0.0
33.00000	-3.00000	15.00000	-3.2407	14.760	-39.747E-6	-0.25589	0.0
34.00000	-3.00000	15.00000	-2.8554	14.760	-31.982E-6	-0.22879	0.0
35.00000	-3.00000	15.00000	-2.4714	14.760	-26.024E-6	-0.20547	0.0
36.00000	-3.00000	15.00000	-2.1113	14.760	-21.389E-6	-0.18527	0.0
37.00000	-3.00000	15.00000	-1.7888	14.760	-17.736E-6	-0.16768	0.0
38.00000	-3.00000	15.00000	-1.5079	14.760	-14.825E-6	-0.15227	0.0
39.00000	-3.00000	15.00000	-1.2667	14.760	-12.482E-6	-0.13870	0.0
40.00000	-3.00000	15.00000	-1.0612	14.760	-10.578E-6	-0.12671	0.0
41.00000	-3.00000</						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	-7.00000	-2.00000	15.00000	-1.2094	14.760	-257.41E-6	-0.63663	1.6953E-6
	-6.00000	-2.00000	15.00000	-1.4409	14.760	-384.98E-6	-0.76219	2.0284E-6
	-5.00000	-2.00000	15.00000	-1.7165	14.760	-607.03E-6	-0.92888	2.4698E-6
	-4.00000	-2.00000	15.00000	-2.0450	14.760	-0.0010236	-1.1575	3.0734E-6
	-3.00000	-2.00000	15.00000	-2.4363	14.760	-0.0018780	-1.4830	3.9286E-6
	-2.00000	-2.00000	15.00000	-2.8997	14.760	-0.0037942	-1.9634	5.1805E-6
	-1.00000	-2.00000	15.00000	-3.4378	14.760	-0.0081939	-2.6756	7.0110E-6
	0.00000	-2.00000	15.00000	-4.0296	14.760	-0.016223	-3.6209	9.4059E-6
	1.00000	-2.00000	15.00000	-4.6203	14.760	-0.024252	-4.5646	11.796E-6
	2.00000	-2.00000	15.00000	-5.1549	14.760	-0.028651	-5.2717	13.613E-6
	3.00000	-2.00000	15.00000	-5.6126	14.760	-0.030565	-5.7436	14.843E-6
	4.00000	-2.00000	15.00000	-5.9956	14.760	-0.031416	-6.0568	15.665E-6
	5.00000	-2.00000	15.00000	-6.3133	14.760	-0.031828	-6.2690	16.225E-6
	6.00000	-2.00000	15.00000	-6.5752	14.760	-0.032044	-6.4145	16.610E-6
	7.00000	-2.00000	15.00000	-6.7900	14.760	-0.032163	-6.5135	16.872E-6
	8.00000	-2.00000	15.00000	-6.9648	14.760	-0.032229	-6.5778	17.043E-6
	9.00000	-2.00000	15.00000	-7.1052	14.760	-0.032263	-6.6140	17.139E-6
	10.00000	-2.00000	15.00000	-7.2160	14.760	-0.032273	-6.6257	17.170E-6
	11.00000	-2.00000	15.00000	-7.3006	14.760	-0.032263	-6.6140	17.139E-6
	12.00000	-2.00000	15.00000	-7.3619	14.760	-0.032229	-6.5778	17.043E-6
	13.00000	-2.00000	15.00000	-7.4021	14.760	-0.032163	-6.5135	16.872E-6
	14.00000	-2.00000	15.00000	-7.4226	14.760	-0.032044	-6.4145	16.610E-6
	15.00000	-2.00000	15.00000	-7.4245	14.760	-0.031828	-6.2690	16.225E-6
	16.00000	-2.00000	15.00000	-7.4084	14.760	-0.031416	-6.0568	15.665E-6
	17.00000	-2.00000	15.00000	-7.3745	14.760	-0.030565	-5.7436	14.843E-6
	18.00000	-2.00000	15.00000	-7.3227	14.760	-0.028651	-5.2717	13.613E-6
	19.00000	-2.00000	15.00000	-7.2528	14.760	-0.024252	-4.5646	11.796E-6
	20.00000	-2.00000	15.00000	-7.1662	14.760	-0.016223	-3.6209	9.4059E-6
	21.00000	-2.00000	15.00000	-7.0663	14.760	-0.0081939	-2.6756	7.0110E-6
	22.00000	-2.00000	15.00000	-6.9561	14.760	-0.0037942	-1.9634	5.1805E-6
	23.00000	-2.00000	15.00000	-6.8256	14.760	-0.0018780	-1.4830	3.9286E-6
	24.00000	-2.00000	15.00000	-6.7027	14.760	-0.0010236	-1.1575	3.0734E-6
	25.00000	-2.00000	15.00000	-6.5542	14.760	-607.03E-6	-0.92888	2.4698E-6
	26.00000	-2.00000	15.00000	-6.3860	14.760	-384.98E-6	-0.76219	2.0284E-6
	27.00000	-2.00000	15.00000	-6.1932	14.760	-257.41E-6	-0.63663	1.6953E-6
	28.00000	-2.00000	15.00000	-5.9698	14.760	-179.48E-6	-0.53945	1.4371E-6
	29.00000	-2.00000	15.00000	-5.7086	14.760	-129.45E-6	-0.46255	1.2327E-6
	30.00000	-2.00000	15.00000	-5.4010	14.760	-95.992E-6	-0.40056	1.0677E-6
	31.00000	-2.00000	15.00000	-5.0373	14.760	-72.836E-6	-0.34981	0.0
	32.00000	-2.00000	15.00000	-4.6082	14.760	-56.348E-6	-0.30771	0.0
	33.00000	-2.00000	15.00000	-4.1112	14.760	-44.318E-6	-0.27239	0.0
	34.00000	-2.00000	15.00000	-3.5650	14.760	-35.357E-6	-0.24248	0.0
	35.00000	-2.00000	15.00000	-3.0201	14.760	-28.560E-6	-0.21693	0.0
	36.00000	-2.00000	15.00000	-2.5270	14.760	-23.323E-6	-0.19493	0.0
	37.00000	-2.00000	15.00000	-2.1045	14.760	-19.231E-6	-0.17588	0.0
	38.00000	-2.00000	15.00000	-1.7651	14.760	-15.994E-6	-0.15927	0.0
	39.00000	-2.00000	15.00000	-1.4547	14.760	-13.405E-6	-0.14471	0.0
	40.00000	-2.00000	15.00000	-1.2086	14.760	-11.315E-6	-0.13190	0.0
	41.00000	-2.00000	15.00000	-1.0034	14.760	-9.6111E-6	-0.12057	0.0
	42.00000	-2.00000	15.00000	-0.83197	14.760	-8.2118E-6	-0.11050	0.0
	43.00000	-2.00000	15.00000	-0.68045	14.760	-7.0539E-6	-0.10045	0.0
	44.00000	-2.00000	15.00000	-0.56808	14.760	-6.0893E-6	-0.093505	0.0
	45.00000	-2.00000	15.00000	-0.46699	14.760	-5.2807E-6	-0.086304	0.0
	46.00000	-2.00000	15.00000	-0.38197	14.760	-4.5991E-6	-0.079823	0.0
	47.00000	-2.00000	15.00000	-0.31040	14.760	-4.0214E-6	-0.073973	0.0
	48.00000	-2.00000	15.00000	-0.25011	14.760	-3.5293E-6	-0.068680	0.0
	49.00000	-2.00000	15.00000	-0.19931	14.760	-3.1083E-6	-0.063877	0.0
	50.00000	-2.00000	15.00000	-0.15650	14.760	-2.7466E-6	-0.059510	0.0
	51.00000	-2.00000	15.00000	-0.12043	14.760	-2.4345E-6	-0.055530	0.0
	52.00000	-2.00000	15.00000	-0.090064	14.760	-2.1642E-6	-0.051895	0.0
	53.00000	-2.00000	15.00000	-0.064521	14.760	-1.9293E-6	-0.048561	0.0
	54.00000	-2.00000	15.00000	-0.043064	14.760	-1.7244E-6	-0.045519	0.0
	55.00000	-2.00000	15.00000	-0.025071	14.760	-1.5452E-6	-0.042717	0.0
	-25.00000	-1.00000	15.00000	-0.0048222	14.760	-5.5448E-6	-0.088881	0.0
	-24.00000	-1.00000	15.00000	-0.017309	14.760	-6.4096E-6	-0.096439	0.0
	-23.00000	-1.00000	15.00000	-0.032156	14.760	-7.4471E-6	-0.10489	0.0
	-22.00000	-1.00000	15.00000	-0.049766	14.760	-8.6918E-6	-0.11435	0.0
	-21.00000	-1.00000	15.00000	-0.070618	14.760	-10.205E-6	-0.12499	0.0
	-20.00000	-1.00000	15.00000	-0.095272	14.760	-12.055E-6	-0.13702	0.0
	-19.00000	-1.00000	15.00000	-0.12439	14.760	-14.336E-6	-0.15066	0.0
	-18.00000	-1.00000	15.00000	-0.15877	14.760	-17.176E-6	-0.16622	0.0
	-17.00000	-1.00000	15.00000	-0.19932	14.760	-20.749E-6	-0.18404	0.0
	-16.00000	-1.00000	15.00000	-0.24718	14.760	-25.295E-6	-0.20458	0.0
	-15.00000	-1.00000	15.00000	-0.30365	14.760	-31.158E-6	-0.22840	0.0
	-14.00000	-1.00000	15.00000	-0.37034	14.760	-38.834E-6	-0.25625	0.0
	-13.00000	-1.00000	15.00000	-0.44914	14.760	-49.055E-6	-0.28905	0.0
	-12.00000	-1.00000	15.00000	-0.54239	14.760	-62.940E-6	-0.32808	0.0
	-11.00000	-1.00000	15.00000	-0.65288	14.760	-82.243E-6	-0.37502	0.0
	-10.00000	-1.00000	15.00000	-0.78407	14.760	-109.82E-6	-0.43221	1.1520E-6
	-9.00000	-1.00000	15.00000	-0.94021	14.760	-150.53E-6	-0.50298	1.3403E-6
	-8.00000	-1.00000	15.00000	-1.1266	14.760	-213.07E-6	-0.59226	1.5774E-6
	-7.00000	-1.00000	15.00000	-1.3499	14.760	-314.01E-6	-0.70730	1.8831E-6
	-6.00000	-1.00000	15.00000	-1.6187	14.760	-487.46E-6	-0.86020	2.2884E-6
	-5.00000	-1.00000	15.00000	-1.9441	14.760	-810.97E-6	-1.0711	2.8463E-6
	-4.00000	-1.00000	15.00000	-2.3409	14.760	-0.0014853	-1.3773	3.6527E-6
	-3.00000	-1.00000	15.00000	-2.8222	14.760	-0.0031303	-1.8545	4.9002E-6
	-2.00000	-1.00000	15.00000	-3.4368	14.760	-0.0081945	-2.6788	7.0196E-6
	-1.00000	-1.00000	15.00000	-4.1981	14.760	-0.029794	-4.3160	11.044E-6
	0.00000	-1.00000	15.00000	-5.1145	14.760	-0.12356	-7.5977	18.302E-6
	1.00000	-1.00000	15.00000	-6.0296	14.760	-0.21732	-10.877	25.556E-6
	2.00000	-1.00000	15.00000	-6.7872	14.760	-0.23891	-12.509	29.566E-6
	3.00000	-1.00000	15.00000	-7.3886	14.760	-0.24398	-13.324	31.661E-6
	4.00000	-1.00000	15.00000	-7.8680	14.760	-0.24562	-13.788	32.872E-6
	5.00000	-1.00000	15.00000	-8.2531	14.760	-0.24629	-14.076	33.631E-6
	6.00000	-1.00000	15.00000	-8.5638	14.760	-0.24660	-14.264	34.127E-6
	7.00000	-1.00000	15.00000	-8.8144	14.760	-0.24677	-14.388	34.454E-6
	8.00000	-1.00000	15.00000	-9.0159	14.760	-0.24685	-14.466	34.663E-6
	9.00000	-1.00000	15.00000	-9.1763	14.760	-0.24690	-14.510	34.779E-6
	10.00000	-1.00000	15.00000	-9.3018	14.760	-0.24691	-14.524	34.816E-6
	11.00000	-1.00000	15.00000	-9.3970	14.760	-0.24690	-14.510	34.779E-6
	12.00000	-1.00000	15.00000	-9.4654	14.760	-0.24688	-14.468	34.663E-6
	13.00000	-1.00000	15.00000	-9.5098	14.760	-0.24677	-14.388	34.454E-6
	14.00000	-1.00000	15.00000	-9.5317	14.760	-0.24660	-14.264	34.127E-6
	15.00000	-1.00000	15.00000	-9.5325	14.760	-0.24629	-14.076	33.631E-6
	16.00000	-1.00000	15.00000	-9.5124	14.760	-0.24562	-13.788	32.872E-6
	17.00000	-1.00000	15.00000	-9.4710	14.760	-0.24398	-13.324	31.661E-6
	18.00000	-1.00000	15.00000	-9.4069	14.760	-0.23891	-12.509	29.566E-6
	19.00000	-1.00000	15.00000	-9.3179	14.760	-0.21732	-10.877	25.556E-6
	20.00000	-1.00000	15.00000	-9.2047	14.760	-0.12356	-7.5977	18.302E-6
	21.00000	-1.00000	15.00000	-9.0766	14.760	-0.029794	-4.3160	11.044E-6
	22.00000	-1.00000	15.00000	-8.9425	14.760	-0.0081945	-2.6788	7.0196E-6
	23.00000	-1.00000	15.00000	-8.8017	14.760	-0.0031303	-1.8545	4.9002E-6
	24.00000	-1.00000	15.00000	-8.6493	14.760	-0.0014853	-1.3773	3.6527E-6
	25.00000	-1.00000	15.00000	-8.4800	14.760	-810.97E-6	-1.0711	2.8463E-6
	26.00							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
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Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	42.00000	-1.00000	15.00000	-0.92810	14.760	-8.6918E-6	-0.11435
	43.00000	-1.00000	15.00000	-0.76507	14.760	-7.4447E-6	-0.10488
	44.00000	-1.00000	15.00000	-0.62952	14.760	-6.4096E-6	-0.09643
	45.00000	-1.00000	15.00000	-0.51649	14.760	-5.5448E-6	-0.08881
	46.00000	-1.00000	15.00000	-0.42200	14.760	-4.8181E-6	-0.08209
	47.00000	-1.00000	15.00000	-0.34288	14.760	-4.2039E-6	-0.07590
	48.00000	-1.00000	15.00000	-0.27652	14.760	-3.6822E-6	-0.07045
	49.00000	-1.00000	15.00000	-0.22083	14.760	-3.2370E-6	-0.06545
	50.00000	-1.00000	15.00000	-0.17405	14.760	-2.8553E-6	-0.06091
	51.00000	-1.00000	15.00000	-0.13477	14.760	-2.5268E-6	-0.05678
	52.00000	-1.00000	15.00000	-0.10177	14.760	-2.2428E-6	-0.05302
	53.00000	-1.00000	15.00000	-0.074081	14.760	-1.9965E-6	-0.04958
	54.00000	-1.00000	15.00000	-0.050865	14.760	-1.7821E-6	-0.04642
	55.00000	-1.00000	15.00000	-0.031429	14.760	-1.5948E-6	-0.04353
	-25.00000	0.00000	15.00000	-0.0086214	14.760	-5.8045E-6	-0.09138
	-24.00000	0.00000	15.00000	-0.021939	14.760	-6.7252E-6	-0.09929
	-23.00000	0.00000	15.00000	-0.037787	14.760	-7.8306E-6	-0.10815
	-22.00000	0.00000	15.00000	-0.056605	14.760	-9.1668E-6	-0.11810
	-21.00000	0.00000	15.00000	-0.078915	14.760	-10.794E-6	-0.12932
	-20.00000	0.00000	15.00000	-0.10533	14.760	-12.791E-6	-0.14203
	-19.00000	0.00000	15.00000	-0.13669	14.760	-15.264E-6	-0.15650
	-18.00000	0.00000	15.00000	-0.17356	14.760	-18.358E-6	-0.17305
	-17.00000	0.00000	15.00000	-0.21727	14.760	-22.269E-6	-0.19208
	-16.00000	0.00000	15.00000	-0.26898	14.760	-27.276E-6	-0.21411
	-15.00000	0.00000	15.00000	-0.33017	14.760	-33.776E-6	-0.23977
	-14.00000	0.00000	15.00000	-0.40265	14.760	-42.349E-6	-0.26992
	-13.00000	0.00000	15.00000	-0.48861	14.760	-53.864E-6	-0.30566
	-12.00000	0.00000	15.00000	-0.59072	14.760	-69.662E-6	-0.34845
	-11.00000	0.00000	15.00000	-0.71229	14.760	-91.885E-6	-0.40032
	-10.00000	0.00000	15.00000	-0.85739	14.760	-124.09E-6	-0.46412
	-9.00000	0.00000	15.00000	-1.0312	14.760	-172.45E-6	-0.54394
	-8.00000	0.00000	15.00000	-1.2402	14.760	-248.39E-6	-0.64599
	-7.00000	0.00000	15.00000	-1.4929	14.760	-374.45E-6	-0.77999
	-6.00000	0.00000	15.00000	-1.8006	14.760	-599.41E-6	-0.96218
	-5.00000	0.00000	15.00000	-2.1786	14.760	-0.0010420	-1.2218
	-4.00000	0.00000	15.00000	-2.6490	14.760	-0.0020427	-1.6173
	-3.00000	0.00000	15.00000	-3.2458	14.760	-0.0048431	-2.2847
	-2.00000	0.00000	15.00000	-4.0273	14.760	-0.016225	-3.6282
	-1.00000	0.00000	15.00000	-5.1131	14.760	-0.12356	-7.6018
	0.00000	0.00000	15.00000	-6.8814	14.760	-22.500	-53.479
	1.00000	0.00000	15.00000	-8.6485	14.760	-44.876	-99.355
	2.00000	0.00000	15.00000	-9.7303	14.760	-44.984	-103.32
	3.00000	0.00000	15.00000	-10.505	14.760	-44.995	-104.66
	4.00000	0.00000	15.00000	-11.092	14.760	-44.998	-105.31
	5.00000	0.00000	15.00000	-11.550	14.760	-44.999	-105.68
	6.00000	0.00000	15.00000	-11.912	14.760	-44.999	-105.92
	7.00000	0.00000	15.00000	-12.201	14.760	-45.000	-106.07
	8.00000	0.00000	15.00000	-12.430	14.760	-45.000	-106.16
	9.00000	0.00000	15.00000	-12.611	14.760	-45.000	-106.22
	10.00000	0.00000	15.00000	-12.751	14.760	-45.000	-106.23
	11.00000	0.00000	15.00000	-12.857	14.760	-45.000	-106.23
	12.00000	0.00000	15.00000	-12.933	14.760	-45.000	-106.16
	13.00000	0.00000	15.00000	-12.981	14.760	-45.000	-106.07
	14.00000	0.00000	15.00000	-13.005	14.760	-44.999	-105.92
	15.00000	0.00000	15.00000	-13.004	14.760	-44.999	-105.68
	16.00000	0.00000	15.00000	-12.980	14.760	-44.998	-105.31
	17.00000	0.00000	15.00000	-12.930	14.760	-44.995	-104.66
	18.00000	0.00000	15.00000	-12.852	14.760	-44.984	-103.32
	19.00000	0.00000	15.00000	-12.737	14.760	-44.876	-99.355
	20.00000	0.00000	15.00000	-12.816	14.760	-22.500	-53.479
	21.00000	0.00000	15.00000	-12.878	14.760	-0.12356	-7.6018
	22.00000	0.00000	15.00000	-12.714	14.760	-0.016225	-3.6282
	23.00000	0.00000	15.00000	-12.550	14.760	-0.0048431	-2.2847
	24.00000	0.00000	15.00000	-12.377	14.760	-0.0020427	-1.6173
	25.00000	0.00000	15.00000	-12.186	14.760	-0.0010420	-1.2218
	26.00000	0.00000	15.00000	-11.970	14.760	-599.41E-6	-0.96218
	27.00000	0.00000	15.00000	-11.718	14.760	-374.45E-6	-0.77999
	28.00000	0.00000	15.00000	-11.421	14.760	-248.39E-6	-0.64599
	29.00000	0.00000	15.00000	-11.063	14.760	-172.45E-6	-0.54394
	30.00000	0.00000	15.00000	-10.622	14.760	-124.09E-6	-0.46412
	31.00000	0.00000	15.00000	-10.067	14.760	-91.885E-6	-0.40032
	32.00000	0.00000	15.00000	-9.3433	14.760	-69.662E-6	-0.34845
	33.00000	0.00000	15.00000	-8.3371	14.760	-53.864E-6	-0.30566
	34.00000	0.00000	15.00000	-6.4410	14.760	-42.349E-6	-0.26992
	35.00000	0.00000	15.00000	-4.5466	14.760	-33.776E-6	-0.23977
	36.00000	0.00000	15.00000	-3.5453	14.760	-27.276E-6	-0.21411
	37.00000	0.00000	15.00000	-2.8295	14.760	-22.269E-6	-0.19208
	38.00000	0.00000	15.00000	-2.2863	14.760	-18.358E-6	-0.17305
	39.00000	0.00000	15.00000	-1.8613	14.760	-15.264E-6	-0.15650
	40.00000	0.00000	15.00000	-1.5224	14.760	-12.791E-6	-0.14203
	41.00000	0.00000	15.00000	-1.2497	14.760	-10.794E-6	-0.12932
	42.00000	0.00000	15.00000	-1.0256	14.760	-9.1668E-6	-0.11810
	43.00000	0.00000	15.00000	-0.84254	14.760	-7.8306E-6	-0.10815
	44.00000	0.00000	15.00000	-0.69147	14.760	-6.7252E-6	-0.09929
	45.00000	0.00000	15.00000	-0.56628	14.760	-5.8045E-6	-0.09138
	46.00000	0.00000	15.00000	-0.46219	14.760	-5.0330E-6	-0.08429
	47.00000	0.00000	15.00000	-0.37542	14.760	-4.3828E-6	-0.07792
	48.00000	0.00000	15.00000	-0.30295	14.760	-3.8318E-6	-0.07217
	49.00000	0.00000	15.00000	-0.24233	14.760	-3.3626E-6	-0.06698
	50.00000	0.00000	15.00000	-0.19157	14.760	-2.9613E-6	-0.06227
	51.00000	0.00000	15.00000	-0.14905	14.760	-2.6166E-6	-0.05800
	52.00000	0.00000	15.00000	-0.11343	14.760	-2.3192E-6	-0.05410
	53.00000	0.00000	15.00000	-0.083590	14.760	-2.0617E-6	-0.05055
	54.00000	0.00000	15.00000	-0.058619	14.760	-1.8379E-6	-0.04730
	55.00000	0.00000	15.00000	-0.037745	14.760	-1.6428E-6	-0.04432
	-25.00000	1.00000	15.00000	-0.012339	14.760	-6.0574E-6	-0.09378
	-24.00000	1.00000	15.00000	-0.026472	14.760	-7.0330E-6	-0.10204
	-23.00000	1.00000	15.00000	-0.043301	14.760	-8.2076E-6	-0.11129
	-22.00000	1.00000	15.00000	-0.063304	14.760	-9.6316E-6	-0.12172
	-21.00000	1.00000	15.00000	-0.087047	14.760	-11.371E-6	-0.13351
	-20.00000	1.00000	15.00000	-0.115520	14.760	-13.514E-6	-0.14680
	-19.00000	1.00000	15.00000	-0.14856	14.760	-16.177E-6	-0.16217
	-18.00000	1.00000	15.00000	-0.18809	14.760	-19.522E-6	-0.17970
	-17.00000	1.00000	15.00000	-0.23492	14.760	-23.770E-6	-0.19992
	-16.00000	1.00000	15.00000	-0.29043	14.760	-29.235E-6	-0.22341
	-15.00000	1.00000	15.00000	-0.35629	14.760	-36.369E-6	-0.25090
	-14.00000	1.00000	15.00000	-0.43450	14.760	-45.835E-6	-0.28333
	-13.00000	1.00000	15.00000	-0.52755	14.760	-58.639E-6	-0.32197
	-12.00000	1.00000	15.00000	-0.63847	14.760	-76.346E-6	-0.36850
	-11.00000	1.00000	15.00000	-0.77103	14.760	-101.48E-6	-0.42528
	-10.00000	1.00000	15.00000	-0.92997	14.760	-138.30E-6	-0.49563
	-9.00000	1.00000	15.00000	-1.1213	14.760	-194.32E-6	-0.58450
	-8.00000	1.00000	15.00000	-1.3528	14.760	-283.65E-6	-0.69933
	-7.00000	1.00000	15.00000	-1.6348	14.760	-434.81E-6	-0.85218
	-6.00000	1.00000	15.00000	-1.9812	14.760	-711.28E-6	-1.0636
	-5.00000	1.00000	15.00000	-2.41118	14.760	-0.0012170	-1.3720
	-4.00000	1.00000	15.00000	-2.9557	14.760	-0.0026000	-1.8568
	-3.00000	1.00000	15.00000	-3.6609	14.760	-0.0065558	-2.7143
	-2.00000	1.00000	15.00000	-4.6161	14.760	-0.024255	-4.5769
	-1.00000	1.00000	15.00000	-6.0263	14.760	-0.21732	-10.887
	0.00000	1.00000	15.00000	-8.6465	14.760	-44.876	-99.360
	1.00000	1.00000	15.00000	-11.265	14.760	-89.535	-187.83
	2.00000	1.00000	15.00000	-12.671	14.760	-89.729	-194.14
	3.00000	1.00000	15.00000	-13.619	14.760	-89.746	-195.99
	4.00000	1.00000	15.00000	-14.315	14.760	-89.750	-196.83
	5.00000	1.00000	15.00000	-14.845	14.760	-89.752	-197.29
	6.00000	1.00000	15.00000	-15.259	14.760	-89.752	-197.57
	7.00000	1.00000	15.00000	-15.584	14.760	-89.752	-197.75
	8.0						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
10.00000	1.00000	15.00000	-16.198	14.760	-89.753	-197.94	-909.14E-6
11.00000	1.00000	15.00000	-16.315	14.760	-89.753	-197.92	-909.19E-6
12.00000	1.00000	15.00000	-16.398	14.760	-89.752	-197.86	-909.35E-6
13.00000	1.00000	15.00000	-16.450	14.760	-89.752	-197.75	-909.64E-6
14.00000	1.00000	15.00000	-16.475	14.760	-89.752	-197.57	-910.11E-6
15.00000	1.00000	15.00000	-16.473	14.760	-89.752	-197.29	-910.85E-6
16.00000	1.00000	15.00000	-16.444	14.760	-89.750	-196.83	-912.07E-6
17.00000	1.00000	15.00000	-16.386	14.760	-89.746	-195.99	-914.25E-6
18.00000	1.00000	15.00000	-16.293	14.760	-89.729	-194.14	-918.91E-6
19.00000	1.00000	15.00000	-16.154	14.760	-89.535	-187.83	-932.65E-6
20.00000	1.00000	15.00000	-16.424	14.760	-44.876	-99.360	-453.53E-6
21.00000	1.00000	15.00000	-16.676	14.760	-0.21732	-10.887	25.581E-6
22.00000	1.00000	15.00000	-16.482	14.760	-0.024255	-4.5769	11.829E-6
23.00000	1.00000	15.00000	-16.296	14.760	-0.0065558	-2.7143	7.1406E-6
24.00000	1.00000	15.00000	-16.103	14.760	-0.0026000	-1.8568	4.9150E-6
25.00000	1.00000	15.00000	-15.890	14.760	-0.0012730	-1.3720	3.6419E-6
26.00000	1.00000	15.00000	-15.649	14.760	-711.28E-6	-1.0636	2.8279E-6
27.00000	1.00000	15.00000	-15.368	14.760	-434.81E-6	-0.85218	2.2679E-6
28.00000	1.00000	15.00000	-15.033	14.760	-283.65E-6	-0.69933	1.8623E-6
29.00000	1.00000	15.00000	-14.625	14.760	-194.32E-6	-0.58450	1.5572E-6
30.00000	1.00000	15.00000	-14.116	14.760	-138.30E-6	-0.49565	1.3209E-6
31.00000	1.00000	15.00000	-13.460	14.760	-101.48E-6	-0.42528	1.1336E-6
32.00000	1.00000	15.00000	-12.575	14.760	-76.346E-6	-0.36850	0.0
33.00000	1.00000	15.00000	-11.267	14.760	-58.639E-6	-0.32197	0.0
34.00000	1.00000	15.00000	-8.3228	14.760	-45.835E-6	-0.28333	0.0
35.00000	1.00000	15.00000	-5.3808	14.760	-36.365E-6	-0.25090	0.0
36.00000	1.00000	15.00000	-4.0779	14.760	-29.235E-6	-0.22341	0.0
37.00000	1.00000	15.00000	-3.2017	14.760	-23.770E-6	-0.19992	0.0
38.00000	1.00000	15.00000	-2.5589	14.760	-19.522E-6	-0.17970	0.0
39.00000	1.00000	15.00000	-2.0667	14.760	-16.177E-6	-0.16217	0.0
40.00000	1.00000	15.00000	-1.68002	14.760	-13.544E-6	-0.14680	0.0
41.00000	1.00000	15.00000	-1.3716	14.760	-11.371E-6	-0.13351	0.0
42.00000	1.00000	15.00000	-1.1224	14.760	-9.6316E-6	-0.12172	0.0
43.00000	1.00000	15.00000	-0.91934	14.760	-8.2076E-6	-0.11129	0.0
44.00000	1.00000	15.00000	-0.75283	14.760	-7.0330E-6	-0.10204	0.0
45.00000	1.00000	15.00000	-0.61555	14.760	-6.0574E-6	-0.09378	0.0
46.00000	1.00000	15.00000	-0.50192	14.760	-5.2420E-6	-0.086406	0.0
47.00000	1.00000	15.00000	-0.40757	14.760	-4.5563E-6	-0.079783	0.0
48.00000	1.00000	15.00000	-0.32902	14.760	-3.9767E-6	-0.073823	0.0
49.00000	1.00000	15.00000	-0.26352	14.760	-3.4842E-6	-0.068443	0.0
50.00000	1.00000	15.00000	-0.20882	14.760	-3.0638E-6	-0.063574	0.0
51.00000	1.00000	15.00000	-0.16311	14.760	-2.7032E-6	-0.059157	0.0
52.00000	1.00000	15.00000	-0.12489	14.760	-2.3928E-6	-0.055139	0.0
53.00000	1.00000	15.00000	-0.092938	14.760	-2.1245E-6	-0.051478	0.0
54.00000	1.00000	15.00000	-0.066238	14.760	-1.8916E-6	-0.048133	0.0
55.00000	1.00000	15.00000	-0.043949	14.760	-1.6899E-6	-0.045071	0.0
-25.00000	2.00000	15.00000	-0.015937	14.760	-6.3010E-6	-0.096078	0.0
-24.00000	2.00000	15.00000	-0.030857	14.760	-7.3298E-6	-0.10466	0.0
-23.00000	2.00000	15.00000	-0.048638	14.760	-8.5716E-6	-0.11430	0.0
-22.00000	2.00000	15.00000	-0.069791	14.760	-10.081E-6	-0.12519	0.0
-21.00000	2.00000	15.00000	-0.094924	14.760	-11.930E-6	-0.13752	0.0
-20.00000	2.00000	15.00000	-0.12476	14.760	-14.214E-6	-0.15156	0.0
-19.00000	2.00000	15.00000	-0.16017	14.760	-17.063E-6	-0.16762	0.0
-18.00000	2.00000	15.00000	-0.20218	14.760	-20.652E-6	-0.18609	0.0
-17.00000	2.00000	15.00000	-0.25204	14.760	-25.229E-6	-0.20748	0.0
-16.00000	2.00000	15.00000	-0.31126	14.760	-31.140E-6	-0.23239	0.0
-15.00000	2.00000	15.00000	-0.38166	14.760	-38.890E-6	-0.26165	0.0
-14.00000	2.00000	15.00000	-0.46547	14.760	-49.224E-6	-0.29630	0.0
-13.00000	2.00000	15.00000	-0.56542	14.760	-63.277E-6	-0.33775	0.0
-12.00000	2.00000	15.00000	-0.68490	14.760	-82.827E-6	-0.38791	1.0342E-6
-11.00000	2.00000	15.00000	-0.82815	14.760	-110.76E-6	-0.44945	1.1980E-6
-10.00000	2.00000	15.00000	-1.0005	14.760	-151.99E-6	-0.52616	1.4021E-6
-9.00000	2.00000	15.00000	-1.2089	14.760	-215.24E-6	-0.62369	1.6614E-6
-8.00000	2.00000	15.00000	-1.4621	14.760	-317.06E-6	-0.75074	1.9990E-6
-7.00000	2.00000	15.00000	-1.7723	14.760	-491.22E-6	-0.92141	2.4518E-6
-6.00000	2.00000	15.00000	-2.1156	14.760	-813.53E-6	-1.1601	3.0837E-6
-5.00000	2.00000	15.00000	-2.6356	14.760	-0.0014767	-1.5125	4.0139E-6
-4.00000	2.00000	15.00000	-3.2476	14.760	-0.0030614	-2.0748	5.4895E-6
-3.00000	2.00000	15.00000	-4.0494	14.760	-0.0078078	-3.0838	8.1070E-6
-2.00000	2.00000	15.00000	-5.1483	14.760	-0.028655	-5.2903	13.663E-6
-1.00000	2.00000	15.00000	-6.7815	14.760	-0.23892	-12.525	29.608E-6
0.00000	2.00000	15.00000	-9.7259	14.760	-44.984	-103.33	-444.64E-6
1.00000	2.00000	15.00000	-12.669	14.760	-89.729	-194.14	-918.89E-6
2.00000	2.00000	15.00000	-14.297	14.760	-89.939	-201.37	-902.96E-6
3.00000	2.00000	15.00000	-15.389	14.760	-89.960	-203.57	-897.44E-6
4.00000	2.00000	15.00000	-16.180	14.760	-89.964	-204.56	-894.87E-6
5.00000	2.00000	15.00000	-16.778	14.760	-89.966	-205.10	-893.45E-6
6.00000	2.00000	15.00000	-17.240	14.760	-89.967	-205.42	-892.60E-6
7.00000	2.00000	15.00000	-17.601	14.760	-89.967	-205.62	-892.07E-6
8.00000	2.00000	15.00000	-17.884	14.760	-89.967	-205.74	-891.74E-6
9.00000	2.00000	15.00000	-18.105	14.760	-89.967	-205.81	-891.56E-6
10.00000	2.00000	15.00000	-18.275	14.760	-89.967	-205.83	-891.50E-6
11.00000	2.00000	15.00000	-18.402	14.760	-89.967	-205.81	-891.56E-6
12.00000	2.00000	15.00000	-18.492	14.760	-89.967	-205.74	-891.74E-6
13.00000	2.00000	15.00000	-18.549	14.760	-89.967	-205.62	-892.07E-6
14.00000	2.00000	15.00000	-18.575	14.760	-89.967	-205.42	-892.60E-6
15.00000	2.00000	15.00000	-18.572	14.760	-89.966	-205.10	-893.45E-6
16.00000	2.00000	15.00000	-18.539	14.760	-89.964	-204.56	-894.87E-6
17.00000	2.00000	15.00000	-18.474	14.760	-89.960	-203.57	-897.44E-6
18.00000	2.00000	15.00000	-18.369	14.760	-89.939	-201.37	-902.96E-6
19.00000	2.00000	15.00000	-18.210	14.760	-89.729	-194.14	-918.89E-6
20.00000	2.00000	15.00000	-18.454	14.760	-44.984	-103.33	-444.64E-6
21.00000	2.00000	15.00000	-18.678	14.760	-0.23892	-12.525	29.608E-6
22.00000	2.00000	15.00000	-18.460	14.760	-0.028655	-5.2903	13.663E-6
23.00000	2.00000	15.00000	-18.254	14.760	-0.0078078	-3.0838	8.1070E-6
24.00000	2.00000	15.00000	-18.041	14.760	-0.0030614	-2.0748	5.4895E-6
25.00000	2.00000	15.00000	-17.809	14.760	-0.0014767	-1.5125	4.0139E-6
26.00000	2.00000	15.00000	-17.544	14.760	-813.53E-6	-1.1601	3.0837E-6
27.00000	2.00000	15.00000	-17.234	14.760	-491.22E-6	-0.92141	2.4518E-6
28.00000	2.00000	15.00000	-16.863	14.760	-317.06E-6	-0.75074	1.9990E-6
29.00000	2.00000	15.00000	-16.409	14.760	-215.24E-6	-0.62369	1.6614E-6
30.00000	2.00000	15.00000	-15.836	14.760	-151.99E-6	-0.52616	1.4021E-6
31.00000	2.00000	15.00000	-15.090	14.760	-110.76E-6	-0.44945	1.1980E-6
32.00000	2.00000	15.00000	-14.071	14.760	-82.827E-6	-0.38791	1.0342E-6
33.00000	2.00000	15.00000	-12.556	14.760	-63.277E-6	-0.33775	0.0
34.00000	2.00000	15.00000	-9.3109	14.760	-49.224E-6	-0.29630	0.0
35.00000	2.00000	15.00000	-6.0673	14.760	-38.890E-6	-0.26165	0.0
36.00000	2.00000	15.00000	-4.5582	14.760	-31.140E-6	-0.23239	0.0
37.00000	2.00000	15.00000	-3.5496	14.760	-25.229E-6	-0.20748	0.0
38.00000	2.00000	15.00000	-2.8180	14.760	-20.652E-6	-0.18609	0.0
39.00000	2.00000	15.00000	-2.2637	14.760	-17.063E-6	-0.16762	0.0
40.00000	2.00000	15.00000	-1.8324	14.760	-14.214E-6	-0.15156	0.0
41.00000	2.00000	15.00000	-1.4906	14.760	-11.930E-6	-0.13752	0.0
42.00000	2.00000	15.00000	-1.2163	14.760	-10.081E-6	-0.12519	0.0
43.00000	2.00000	15.00000	-0.99396	14.760	-8.5716E-6	-0.11430	0.0
44.00000	2.00000	15.00000	-0.81249	14.760	-7.3298E-6	-0.10466	0.0
45.00000	2.00000	15.00000	-0.66348	14.760	-6.3010E-6	-0.096078	0.0
46.00000	2.00000	15.00000	-0.54058	14.760	-5.4429E-6	-0.088417	0.0
47.00000	2.00000	15.00000	-0.43884	14.760	-4.7231E-6	-0.081554	0.0
48.00000	2.00000	15.00					

Total Heave

Job No.	Sheet No.	Rev.
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Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z [Level] [mOD]	Z [m]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
27.00000	4.00000	15.00000	-19.492	14.760	-582.36E-6	-1.0434	2.7759E-6
28.00000	4.00000	15.00000	-19.060	14.760	-373.34E-6	-0.84290	2.2441E-6
29.00000	4.00000	15.00000	-18.526	14.760	-251.52E-6	-0.69477	1.8506E-6
30.00000	4.00000	15.00000	-17.852	14.760	-176.22E-6	-0.58192	1.5506E-6
31.00000	4.00000	15.00000	-16.974	14.760	-127.44E-6	-0.49383	1.3162E-6
32.00000	4.00000	15.00000	-15.782	14.760	-94.600E-6	-0.42367	1.1294E-6
33.00000	4.00000	15.00000	-14.045	14.760	-71.768E-6	-0.36687	0.0
34.00000	4.00000	15.00000	-10.540	14.760	-55.463E-6	-0.32024	0.0
35.00000	4.00000	15.00000	-7.0365	14.760	-43.549E-6	-0.28149	0.0
36.00000	4.00000	15.00000	-5.3064	14.760	-34.668E-6	-0.24896	0.0
37.00000	4.00000	15.00000	-4.1256	14.760	-27.935E-6	-0.22141	0.0
38.00000	4.00000	15.00000	-3.2638	14.760	-22.751E-6	-0.19787	0.0
39.00000	4.00000	15.00000	-2.6113	14.760	-18.707E-6	-0.17764	0.0
40.00000	4.00000	15.00000	-2.1053	14.760	-15.514E-6	-0.16012	0.0
41.00000	4.00000	15.00000	-1.7064	14.760	-12.966E-6	-0.14488	0.0
42.00000	4.00000	15.00000	-1.3879	14.760	-10.914E-6	-0.13154	0.0
43.00000	4.00000	15.00000	-1.1312	14.760	-9.2452E-6	-0.11980	0.0
44.00000	4.00000	15.00000	-0.92267	14.760	-7.8784E-6	-0.10944	0.0
45.00000	4.00000	15.00000	-0.75226	14.760	-6.7504E-6	-0.10025	0.0
46.00000	4.00000	15.00000	-0.61233	14.760	-5.8132E-6	-0.092075	0.0
47.00000	4.00000	15.00000	-0.49697	14.760	-5.0298E-6	-0.084768	0.0
48.00000	4.00000	15.00000	-0.40158	14.760	-4.3711E-6	-0.078220	0.0
49.00000	4.00000	15.00000	-0.32251	14.760	-3.8142E-6	-0.072333	0.0
50.00000	4.00000	15.00000	-0.25684	14.760	-3.3412E-6	-0.067026	0.0
51.00000	4.00000	15.00000	-0.20223	14.760	-2.9374E-6	-0.062227	0.0
52.00000	4.00000	15.00000	-0.15677	14.760	-2.5913E-6	-0.057878	0.0
53.00000	4.00000	15.00000	-0.11892	14.760	-2.2933E-6	-0.053926	0.0
54.00000	4.00000	15.00000	-0.087411	14.760	-2.0358E-6	-0.050327	0.0
55.00000	4.00000	15.00000	-0.061185	14.760	-1.8125E-6	-0.047042	0.0
-25.00000	5.00000	15.00000	-0.025625	14.760	-6.9516E-6	-0.10210	0.0
-24.00000	5.00000	15.00000	-0.042669	14.760	-8.1242E-6	-0.11155	0.0
-23.00000	5.00000	15.00000	-0.063014	14.760	-9.5474E-6	-0.12225	0.0
-22.00000	5.00000	15.00000	-0.087269	14.760	-11.287E-6	-0.13436	0.0
-21.00000	5.00000	15.00000	-0.11616	14.760	-13.432E-6	-0.14815	0.0
-20.00000	5.00000	15.00000	-0.15054	14.760	-16.098E-6	-0.16394	0.0
-19.00000	5.00000	15.00000	-0.19147	14.760	-19.445E-6	-0.18127	0.0
-18.00000	5.00000	15.00000	-0.24020	14.760	-23.691E-6	-0.20313	0.0
-17.00000	5.00000	15.00000	-0.29825	14.760	-29.145E-6	-0.22763	0.0
-16.00000	5.00000	15.00000	-0.36746	14.760	-36.241E-6	-0.25636	0.0
-15.00000	5.00000	15.00000	-0.45009	14.760	-45.615E-6	-0.29035	0.0
-14.00000	5.00000	15.00000	-0.54890	14.760	-56.213E-6	-0.33091	0.0
-13.00000	5.00000	15.00000	-0.66732	14.760	-75.478E-6	-0.37982	1.0127E-6
-12.00000	5.00000	15.00000	-0.80962	14.760	-99.682E-6	-0.43952	1.1717E-6
-11.00000	5.00000	15.00000	-0.98115	14.760	-134.53E-6	-0.51339	1.3683E-6
-10.00000	5.00000	15.00000	-1.1887	14.760	-186.30E-6	-0.60631	1.6155E-6
-9.00000	5.00000	15.00000	-1.4411	14.760	-266.17E-6	-0.72551	1.9107E-6
-8.00000	5.00000	15.00000	-1.7498	14.760	-395.18E-6	-0.88212	2.3484E-6
-7.00000	5.00000	15.00000	-2.1301	14.760	-615.83E-6	-1.0941	2.9107E-6
-6.00000	5.00000	15.00000	-2.6028	14.760	-0.0010219	-1.3921	3.6998E-6
-5.00000	5.00000	15.00000	-3.1973	14.760	-0.0018455	-1.8326	4.8623E-6
-4.00000	5.00000	15.00000	-3.9571	14.760	-0.0037598	-2.5302	6.6940E-6
-3.00000	5.00000	15.00000	-4.9501	14.760	-0.0092397	-3.7553	9.8764E-6
-2.00000	5.00000	15.00000	-6.2948	14.760	-0.031841	-6.3160	16.350E-6
-1.00000	5.00000	15.00000	-8.2347	14.760	-0.24630	-14.123	33.755E-6
0.00000	5.00000	15.00000	-11.533	14.760	-44.999	-105.73	438.49E-6
1.00000	5.00000	15.00000	-14.829	14.760	-89.752	-197.33	33.755E-6
2.00000	5.00000	15.00000	-16.764	14.760	-89.966	-205.13	-893.36E-6
3.00000	5.00000	15.00000	-18.100	14.760	-89.989	-207.68	-886.92E-6
4.00000	5.00000	15.00000	-19.080	14.760	-89.994	-208.89	-883.79E-6
5.00000	5.00000	15.00000	-19.823	14.760	-89.996	-209.56	-882.03E-6
6.00000	5.00000	15.00000	-20.397	14.760	-89.997	-209.99	-880.96E-6
7.00000	5.00000	15.00000	-20.844	14.760	-89.997	-210.22	-880.29E-6
8.00000	5.00000	15.00000	-21.193	14.760	-89.997	-210.37	-879.87E-6
9.00000	5.00000	15.00000	-21.464	14.760	-89.997	-210.46	-879.65E-6
10.00000	5.00000	15.00000	-21.672	14.760	-89.997	-210.48	-879.58E-6
11.00000	5.00000	15.00000	-21.826	14.760	-89.997	-210.48	-879.65E-6
12.00000	5.00000	15.00000	-21.935	14.760	-89.997	-210.37	-879.87E-6
13.00000	5.00000	15.00000	-22.003	14.760	-89.997	-210.22	-880.29E-6
14.00000	5.00000	15.00000	-22.033	14.760	-89.997	-209.96	-880.96E-6
15.00000	5.00000	15.00000	-22.028	14.760	-89.996	-209.56	-882.03E-6
16.00000	5.00000	15.00000	-21.987	14.760	-89.994	-208.89	-883.79E-6
17.00000	5.00000	15.00000	-21.906	14.760	-89.989	-207.68	-886.92E-6
18.00000	5.00000	15.00000	-21.778	14.760	-89.966	-205.13	-893.36E-6
19.00000	5.00000	15.00000	-21.589	14.760	-89.752	-197.33	-910.74E-6
20.00000	5.00000	15.00000	-21.795	14.760	-44.999	-105.73	438.49E-6
21.00000	5.00000	15.00000	-21.978	14.760	-0.24630	-14.123	33.755E-6
22.00000	5.00000	15.00000	-21.717	14.760	-0.031841	-6.3160	16.350E-6
23.00000	5.00000	15.00000	-21.468	14.760	-0.0092397	-3.7553	9.8764E-6
24.00000	5.00000	15.00000	-21.209	14.760	-0.0037598	-2.5302	6.6940E-6
25.00000	5.00000	15.00000	-20.924	14.760	-0.0018455	-1.8326	4.8623E-6
26.00000	5.00000	15.00000	-20.600	14.760	-0.0010219	-1.3921	3.6998E-6
27.00000	5.00000	15.00000	-20.220	14.760	-615.83E-6	-1.0941	2.9107E-6
28.00000	5.00000	15.00000	-19.762	14.760	-395.18E-6	-0.88212	2.3484E-6
29.00000	5.00000	15.00000	-19.199	14.760	-266.17E-6	-0.72551	1.9324E-6
30.00000	5.00000	15.00000	-18.487	14.760	-186.30E-6	-0.60631	1.6155E-6
31.00000	5.00000	15.00000	-17.564	14.760	-134.53E-6	-0.51339	1.3683E-6
32.00000	5.00000	15.00000	-16.318	14.760	-99.682E-6	-0.43952	1.1717E-6
33.00000	5.00000	15.00000	-14.519	14.760	-75.478E-6	-0.37982	1.0127E-6
34.00000	5.00000	15.00000	-10.947	14.760	-58.213E-6	-0.33091	0.0
35.00000	5.00000	15.00000	-7.3767	14.760	-45.615E-6	-0.29035	0.0
36.00000	5.00000	15.00000	-5.5850	14.760	-36.241E-6	-0.25636	0.0
37.00000	5.00000	15.00000	-4.3508	14.760	-29.145E-6	-0.22763	0.0
38.00000	5.00000	15.00000	-3.4447	14.760	-23.691E-6	-0.20313	0.0
39.00000	5.00000	15.00000	-2.7562	14.760	-19.445E-6	-0.18211	0.0
40.00000	5.00000	15.00000	-2.2215	14.760	-16.098E-6	-0.16394	0.0
41.00000	5.00000	15.00000	-1.7997	14.760	-13.432E-6	-0.14815	0.0
42.00000	5.00000	15.00000	-1.4629	14.760	-11.287E-6	-0.13436	0.0
43.00000	5.00000	15.00000	-1.1917	14.760	-9.5474E-6	-0.12225	0.0
44.00000	5.00000	15.00000	-0.97152	14.760	-8.1242E-6	-0.11155	0.0
45.00000	5.00000	15.00000	-0.79181	14.760	-6.9516E-6	-0.10210	0.0
46.00000	5.00000	15.00000	-0.64440	14.760	-5.9788E-6	-0.093690	0.0
47.00000	5.00000	15.00000	-0.52303	14.760	-5.1668E-6	-0.086189	0.0
48.00000	5.00000	15.00000	-0.42278	14.760	-4.4850E-6	-0.079471	0.0
49.00000	5.00000	15.00000	-0.33977	14.760	-3.9094E-6	-0.073438	0.0
50.00000	5.00000	15.00000	-0.27090	14.760	-3.4210E-6	-0.068004	0.0
51.00000	5.00000	15.00000	-0.21369	14.760	-3.0047E-6	-0.063096	0.0
52.00000	5.00000	15.00000	-0.16612	14.760	-2.6482E-6	-0.058652	0.0
53.00000	5.00000	15.00000	-0.12655	14.760	-2.3417E-6	-0.054617	0.0
54.00000	5.00000	15.00000	-0.093626	14.760	-2.0770E-6	-0.050945	0.0
55.00000	5.00000	15.00000	-0.066246	14.760	-1.8477E-6	-0.047597	0.0
-25.00000	6.00000	15.00000	-0.028366	14.760	-7.1432E-6	-0.10377	0.0
-24.00000	6.00000	15.00000	-0.046010	14.760	-8.3476E-6	-0.11348	0.0
-23.00000	6.00000	15.00000	-0.067081	14.760	-9.8219E-6	-0.12446	0.0
-22.00000	6.00000	15.00000	-0.092212	14.760	-11.627E-6	-0.13691	0.0
-21.00000	6.00000	15.00000	-0.12216	14.760	-13.854E-6	-0.15112	0.0
-20.00000	6.00000	15.00000	-0.15784	14.760	-16.628E-6	-0.16740	0.0
-19.00000	6.00000	15.00000	-0.20033	14.760	-20.114E-6	-0.18616	0.0

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Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [m]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-5.00000	6.00000	15.00000	-3.3405	14.760	-0.0019061	-1.9050	5.0547E-6
-4.00000	6.00000	15.00000	-4.1319	14.760	-0.0038536	-2.6246	6.9445E-6
-3.00000	6.00000	15.00000	-5.1624	14.760	-0.0093849	-3.8784	10.203E-6
-2.00000	6.00000	15.00000	-6.5505	14.760	-0.032062	-6.4756	16.773E-6
-1.00000	6.00000	15.00000	-8.5387	14.760	-0.24662	-14.326	34.292E-6
0.00000	6.00000	15.00000	-11.888	14.760	-44.999	-105.98	-437.83E-6
1.00000	6.00000	15.00000	-15.235	14.760	-89.752	-197.63	-909.95E-6
2.00000	6.00000	15.00000	-17.218	14.760	-89.967	-205.48	-892.45E-6
3.00000	6.00000	15.00000	-18.597	14.760	-89.989	-208.06	-885.92E-6
4.00000	6.00000	15.00000	-19.615	14.760	-89.995	-209.29	-882.72E-6
5.00000	6.00000	15.00000	-20.389	14.760	-89.997	-209.98	-880.90E-6
6.00000	6.00000	15.00000	-20.988	14.760	-89.998	-210.40	-879.79E-6
7.00000	6.00000	15.00000	-21.455	14.760	-89.998	-210.67	-879.09E-6
8.00000	6.00000	15.00000	-21.821	14.760	-89.998	-210.83	-878.66E-6
9.00000	6.00000	15.00000	-22.105	14.760	-89.998	-210.92	-878.43E-6
10.00000	6.00000	15.00000	-22.322	14.760	-89.998	-210.95	-878.35E-6
11.00000	6.00000	15.00000	-22.484	14.760	-89.998	-210.92	-878.43E-6
12.00000	6.00000	15.00000	-22.597	14.760	-89.998	-210.83	-878.66E-6
13.00000	6.00000	15.00000	-22.668	14.760	-89.998	-210.67	-879.09E-6
14.00000	6.00000	15.00000	-22.700	14.760	-89.998	-210.40	-879.79E-6
15.00000	6.00000	15.00000	-22.695	14.760	-89.999	-209.98	-880.90E-6
16.00000	6.00000	15.00000	-22.652	14.760	-89.995	-209.29	-882.72E-6
17.00000	6.00000	15.00000	-22.568	14.760	-89.989	-208.06	-885.92E-6
18.00000	6.00000	15.00000	-22.436	14.760	-89.967	-205.48	-892.45E-6
19.00000	6.00000	15.00000	-22.241	14.760	-89.752	-197.63	-909.95E-6
20.00000	6.00000	15.00000	-22.440	14.760	-44.999	-105.98	-437.83E-6
21.00000	6.00000	15.00000	-22.614	14.760	-0.24662	-14.326	34.292E-6
22.00000	6.00000	15.00000	-22.344	14.760	-0.032062	-6.4756	16.773E-6
23.00000	6.00000	15.00000	-22.084	14.760	-0.0093849	-3.8784	10.203E-6
24.00000	6.00000	15.00000	-21.814	14.760	-0.0038536	-2.6246	6.9445E-6
25.00000	6.00000	15.00000	-21.516	14.760	-0.0019061	-1.9050	5.0547E-6
26.00000	6.00000	15.00000	-21.177	14.760	-0.0010615	-1.4480	3.8483E-6
27.00000	6.00000	15.00000	-20.779	14.760	-642.09E-6	-1.1376	3.0264E-6
28.00000	6.00000	15.00000	-20.301	14.760	-412.94E-6	-0.91628	2.4393E-6
29.00000	6.00000	15.00000	-19.712	14.760	-278.41E-6	-0.75260	2.0045E-6
30.00000	6.00000	15.00000	-18.971	14.760	-194.90E-6	-0.62799	1.6732E-6
31.00000	6.00000	15.00000	-18.013	14.760	-140.68E-6	-0.53089	1.4149E-6
32.00000	6.00000	15.00000	-16.727	14.760	-104.15E-6	-0.45376	1.2096E-6
33.00000	6.00000	15.00000	-14.884	14.760	-78.767E-6	-0.39150	1.0438E-6
34.00000	6.00000	15.00000	-11.264	14.760	-60.668E-6	-0.34055	0.0
35.00000	6.00000	15.00000	-7.6476	14.760	-47.470E-6	-0.29836	0.0
36.00000	6.00000	15.00000	-5.8118	14.760	-37.658E-6	-0.26306	0.0
37.00000	6.00000	15.00000	-4.5381	14.760	-30.238E-6	-0.23326	0.0
38.00000	6.00000	15.00000	-3.5980	14.760	-24.543E-6	-0.20790	0.0
39.00000	6.00000	15.00000	-2.8810	14.760	-20.114E-6	-0.18616	0.0
40.00000	6.00000	15.00000	-2.3228	14.760	-16.628E-6	-0.16740	0.0
41.00000	6.00000	15.00000	-1.8818	14.760	-13.854E-6	-0.15112	0.0
42.00000	6.00000	15.00000	-1.5295	14.760	-11.627E-6	-0.13691	0.0
43.00000	6.00000	15.00000	-1.2457	14.760	-9.8219E-6	-0.12446	0.0
44.00000	6.00000	15.00000	-1.0154	14.760	-8.3476E-6	-0.11348	0.0
45.00000	6.00000	15.00000	-0.82745	14.760	-7.1343E-6	-0.10375	0.0
46.00000	6.00000	15.00000	-0.67340	14.760	-6.1292E-6	-0.095154	0.0
47.00000	6.00000	15.00000	-0.54663	14.760	-5.2911E-6	-0.087470	0.0
48.00000	6.00000	15.00000	-0.44201	14.760	-4.5883E-6	-0.080598	0.0
49.00000	6.00000	15.00000	-0.35545	14.760	-3.9956E-6	-0.074433	0.0
50.00000	6.00000	15.00000	-0.28369	14.760	-3.4933E-6	-0.068985	0.0
51.00000	6.00000	15.00000	-0.22413	14.760	-3.0656E-6	-0.063878	0.0
52.00000	6.00000	15.00000	-0.17464	14.760	-2.6997E-6	-0.059347	0.0
53.00000	6.00000	15.00000	-0.13350	14.760	-2.3853E-6	-0.055237	0.0
54.00000	6.00000	15.00000	-0.099290	14.760	-2.1142E-6	-0.051500	0.0
55.00000	6.00000	15.00000	-0.070859	14.760	-1.8795E-6	-0.048099	0.0
-25.00000	7.00000	15.00000	-0.030809	14.760	-7.2967E-6	-0.10525	0.0
-24.00000	7.00000	15.00000	-0.048987	14.760	-8.5460E-6	-0.11518	0.0
-23.00000	7.00000	15.00000	-0.070704	14.760	-10.066E-6	-0.12641	0.0
-22.00000	7.00000	15.00000	-0.096617	14.760	-11.929E-6	-0.13918	0.0
-21.00000	7.00000	15.00000	-0.12751	14.760	-14.230E-6	-0.15375	0.0
-20.00000	7.00000	15.00000	-0.16433	14.760	-17.098E-6	-0.17047	0.0
-19.00000	7.00000	15.00000	-0.20821	14.760	-20.707E-6	-0.18975	0.0
-18.00000	7.00000	15.00000	-0.26052	14.760	-25.297E-6	-0.21213	0.0
-17.00000	7.00000	15.00000	-0.32291	14.760	-31.204E-6	-0.23826	0.0
-16.00000	7.00000	15.00000	-0.39742	14.760	-38.905E-6	-0.26900	0.0
-15.00000	7.00000	15.00000	-0.48649	14.760	-49.096E-6	-0.30545	0.0
-14.00000	7.00000	15.00000	-0.59317	14.760	-62.808E-6	-0.34907	0.0
-13.00000	7.00000	15.00000	-0.72120	14.760	-81.612E-6	-0.40179	1.0712E-6
-12.00000	7.00000	15.00000	-0.87525	14.760	-107.97E-6	-0.46627	1.2429E-6
-11.00000	7.00000	15.00000	-1.0612	14.760	-145.88E-6	-0.54618	1.4557E-6
-10.00000	7.00000	15.00000	-1.2863	14.760	-202.07E-6	-0.64681	1.7234E-6
-9.00000	7.00000	15.00000	-1.5603	14.760	-288.40E-6	-0.77593	2.0667E-6
-8.00000	7.00000	15.00000	-1.8953	14.760	-427.05E-6	-0.94538	2.5168E-6
-7.00000	7.00000	15.00000	-2.3078	14.760	-662.27E-6	-1.1741	3.1236E-6
-6.00000	7.00000	15.00000	-2.8196	14.760	-0.0010906	-1.4940	3.9708E-6
-5.00000	7.00000	15.00000	-3.4615	14.760	-0.0019485	-1.9633	5.2096E-6
-4.00000	7.00000	15.00000	-4.2777	14.760	-0.0039154	-2.6984	7.1405E-6
-3.00000	7.00000	15.00000	-5.3370	14.760	-0.0094739	-3.9715	10.450E-6
-2.00000	7.00000	15.00000	-6.7575	14.760	-0.032187	-6.5918	17.081E-6
-1.00000	7.00000	15.00000	-8.7811	14.760	-0.24679	-14.469	34.670E-6
0.00000	7.00000	15.00000	-12.167	14.760	-45.000	-106.15	-437.37E-6
1.00000	7.00000	15.00000	-15.551	14.760	-89.752	-197.83	-909.42E-6
2.00000	7.00000	15.00000	-17.569	14.760	-89.967	-205.70	-891.86E-6
3.00000	7.00000	15.00000	-18.980	14.760	-89.990	-208.31	-885.26E-6
4.00000	7.00000	15.00000	-20.026	14.760	-89.995	-209.50	-882.01E-6
5.00000	7.00000	15.00000	-20.825	14.760	-89.997	-210.27	-880.16E-6
6.00000	7.00000	15.00000	-21.445	14.760	-89.998	-210.70	-879.02E-6
7.00000	7.00000	15.00000	-21.929	14.760	-89.998	-210.97	-878.30E-6
8.00000	7.00000	15.00000	-22.308	14.760	-89.999	-211.14	-877.85E-6
9.00000	7.00000	15.00000	-22.602	14.760	-89.999	-211.26	-877.61E-6
10.00000	7.00000	15.00000	-22.828	14.760	-89.999	-211.26	-877.53E-6
11.00000	7.00000	15.00000	-22.996	14.760	-89.999	-211.23	-877.61E-6
12.00000	7.00000	15.00000	-23.114	14.760	-89.999	-211.14	-877.85E-6
13.00000	7.00000	15.00000	-23.188	14.760	-89.998	-210.97	-878.30E-6
14.00000	7.00000	15.00000	-23.221	14.760	-89.998	-210.70	-879.02E-6
15.00000	7.00000	15.00000	-23.216	14.760	-89.997	-210.27	-880.16E-6
16.00000	7.00000	15.00000	-23.171	14.760	-89.995	-209.50	-882.01E-6
17.00000	7.00000	15.00000	-23.085	14.760	-89.990	-208.31	-885.26E-6
18.00000	7.00000	15.00000	-22.949	14.760	-89.967	-205.70	-891.86E-6
19.00000	7.00000	15.00000	-22.749	14.760	-89.752	-197.83	-909.42E-6
20.00000	7.00000	15.00000	-22.942	14.760	-45.000	-106.15	-437.37E-6
21.00000	7.00000	15.00000	-23.110	14.760	-0.24679	-14.469	34.670E-6
22.00000	7.00000	15.00000	-22.833	14.760	-0.032187	-6.5918	17.081E-6
23.00000	7.00000	15.00000	-22.564	14.760	-0.0094739	-3.9715	10.450E-6
24.00000	7.00000	15.00000	-22.284	14.760	-0.0039154	-2.6984	7.1405E-6
25.00000	7.00000	15.00000	-21.976	14.760	-0.0019485	-1.9633	5.2096E-6
26.00000	7.00000	15.00000	-21.624	14.760	-0.0010906	-1.4940	3.9708E-6
27.00000	7.00000	15.00000	-21.211	14.760	-662.27E-6	-1.1741	3.1236E-6
28.00000	7.00000	15.00000	-20.716	14.760	-427.05E-6	-0.94538	2.5168E-6
29.00000	7.00000	15.00000	-20.107	14.760	-288.40E-6	-0.77593	2.0667E-6
30.00000	7.00000	15.00000	-19.343	14.760	-202.07E-6	-0.64681	1.7234E-6



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
44.00000	7.00000	15.00000	-1.0538	14.760	-8.5460E-6	-0.11518	0.0
45.00000	7.00000	15.00000	-0.85881	14.760	-7.2967E-6	-0.10525	0.0
46.00000	7.00000	15.00000	-0.69899	14.760	-6.2627E-6	-0.096445	0.0
47.00000	7.00000	15.00000	-0.56752	14.760	-5.4014E-6	-0.088602	0.0
48.00000	7.00000	15.00000	-0.45906	14.760	-4.6799E-6	-0.081593	0.0
49.00000	7.00000	15.00000	-0.36937	14.760	-4.0721E-6	-0.075310	0.0
50.00000	7.00000	15.00000	-0.29507	14.760	-3.5574E-6	-0.069661	0.0
51.00000	7.00000	15.00000	-0.23342	14.760	-3.1195E-6	-0.064566	0.0
52.00000	7.00000	15.00000	-0.18222	14.760	-2.7452E-6	-0.059960	0.0
53.00000	7.00000	15.00000	-0.13969	14.760	-2.4240E-6	-0.055783	0.0
54.00000	7.00000	15.00000	-0.10434	14.760	-2.1471E-6	-0.051988	0.0
55.00000	7.00000	15.00000	-0.074971	14.760	-1.9076E-6	-0.048531	0.0
-25.00000	8.00000	15.00000	-0.032925	14.760	-7.4369E-6	-0.10652	0.0
-24.00000	8.00000	15.00000	-0.051566	14.760	-8.7175E-6	-0.11664	0.0
-23.00000	8.00000	15.00000	-0.073843	14.760	-10.277E-6	-0.12810	0.0
-22.00000	8.00000	15.00000	-0.10043	14.760	-12.189E-6	-0.14113	0.0
-21.00000	8.00000	15.00000	-0.13214	14.760	-14.554E-6	-0.15601	0.0
-20.00000	8.00000	15.00000	-0.16995	14.760	-17.503E-6	-0.17311	0.0
-19.00000	8.00000	15.00000	-0.21503	14.760	-21.218E-6	-0.19285	0.0
-18.00000	8.00000	15.00000	-0.26879	14.760	-25.945E-6	-0.21577	0.0
-17.00000	8.00000	15.00000	-0.33295	14.760	-32.032E-6	-0.24256	0.0
-16.00000	8.00000	15.00000	-0.40959	14.760	-39.972E-6	-0.27411	0.0
-15.00000	8.00000	15.00000	-0.50127	14.760	-50.480E-6	-0.31155	0.0
-14.00000	8.00000	15.00000	-0.61110	14.760	-64.620E-6	-0.35638	0.0
-13.00000	8.00000	15.00000	-0.74297	14.760	-84.004E-6	-0.41060	1.0947E-6
-12.00000	8.00000	15.00000	-0.90166	14.760	-111.161E-6	-0.47694	1.2714E-6
-11.00000	8.00000	15.00000	-1.0932	14.760	-150.16E-6	-0.55918	1.4903E-6
-10.00000	8.00000	15.00000	-1.3252	14.760	-207.87E-6	-0.66271	1.7657E-6
-9.00000	8.00000	15.00000	-1.6074	14.760	-296.35E-6	-0.79547	2.1187E-6
-8.00000	8.00000	15.00000	-1.9525	14.760	-438.01E-6	-0.96951	2.5810E-6
-7.00000	8.00000	15.00000	-2.3768	14.760	-677.49E-6	-1.2040	3.2031E-6
-6.00000	8.00000	15.00000	-2.9028	14.760	-0.001118	-1.5312	4.0695E-6
-5.00000	8.00000	15.00000	-3.5613	14.760	-0.0019781	-2.0094	5.3322E-6
-4.00000	8.00000	15.00000	-4.3968	14.760	-0.0039565	-2.7555	7.2922E-6
-3.00000	8.00000	15.00000	-5.4779	14.760	-0.0095303	-4.0417	10.636E-6
-2.00000	8.00000	15.00000	-6.9226	14.760	-0.032263	-6.6773	17.308E-6
-1.00000	8.00000	15.00000	-8.9722	14.760	-0.24689	-14.571	34.942E-6
0.00000	8.00000	15.00000	-12.385	14.760	-45.000	-106.27	-437.05E-6
1.00000	8.00000	15.00000	-15.796	14.760	-89.753	-197.97	-909.06E-6
2.00000	8.00000	15.00000	-17.840	14.760	-89.967	-205.86	-891.45E-6
3.00000	8.00000	15.00000	-19.275	14.760	-89.990	-208.48	-884.81E-6
4.00000	8.00000	15.00000	-20.343	14.760	-89.995	-209.74	-881.53E-6
5.00000	8.00000	15.00000	-21.160	14.760	-89.997	-210.46	-879.65E-6
6.00000	8.00000	15.00000	-21.796	14.760	-89.998	-210.90	-878.49E-6
7.00000	8.00000	15.00000	-22.293	14.760	-89.999	-211.17	-877.75E-6
8.00000	8.00000	15.00000	-22.683	14.760	-89.999	-211.35	-877.30E-6
9.00000	8.00000	15.00000	-22.987	14.760	-89.999	-211.44	-877.05E-6
10.00000	8.00000	15.00000	-23.219	14.760	-89.999	-211.47	-876.97E-6
11.00000	8.00000	15.00000	-23.392	14.760	-89.999	-211.44	-877.05E-6
12.00000	8.00000	15.00000	-23.514	14.760	-89.999	-211.35	-877.30E-6
13.00000	8.00000	15.00000	-23.590	14.760	-89.999	-211.17	-877.75E-6
14.00000	8.00000	15.00000	-23.625	14.760	-89.998	-210.90	-878.49E-6
15.00000	8.00000	15.00000	-23.619	14.760	-89.997	-210.46	-879.65E-6
16.00000	8.00000	15.00000	-23.574	14.760	-89.995	-209.74	-881.53E-6
17.00000	8.00000	15.00000	-23.486	14.760	-89.990	-208.48	-884.81E-6
18.00000	8.00000	15.00000	-23.347	14.760	-89.967	-205.86	-891.45E-6
19.00000	8.00000	15.00000	-23.144	14.760	-89.753	-197.97	-909.06E-6
20.00000	8.00000	15.00000	-23.332	14.760	-45.000	-106.27	-437.05E-6
21.00000	8.00000	15.00000	-23.495	14.760	-0.24689	-14.571	34.942E-6
22.00000	8.00000	15.00000	-23.211	14.760	-0.032263	-6.6773	17.308E-6
23.00000	8.00000	15.00000	-22.936	14.760	-0.0095303	-4.0417	10.636E-6
24.00000	8.00000	15.00000	-22.648	14.760	-0.0039565	-2.7555	7.2922E-6
25.00000	8.00000	15.00000	-22.330	14.760	-0.0019781	-2.0094	5.3322E-6
26.00000	8.00000	15.00000	-21.968	14.760	-0.001118	-1.5312	4.0695E-6
27.00000	8.00000	15.00000	-21.544	14.760	-677.49E-6	-1.2040	3.2031E-6
28.00000	8.00000	15.00000	-21.034	14.760	-438.01E-6	-0.96951	2.5810E-6
29.00000	8.00000	15.00000	-20.410	14.760	-296.35E-6	-0.79547	2.1187E-6
30.00000	8.00000	15.00000	-19.628	14.760	-207.87E-6	-0.66271	1.7657E-6
31.00000	8.00000	15.00000	-18.622	14.760	-150.16E-6	-0.55918	1.4903E-6
32.00000	8.00000	15.00000	-17.284	14.760	-111.16E-6	-0.47694	1.2714E-6
33.00000	8.00000	15.00000	-15.584	14.760	-84.004E-6	-0.41060	1.0947E-6
34.00000	8.00000	15.00000	-11.707	14.760	-64.620E-6	-0.35638	0.0
35.00000	8.00000	15.00000	-8.0314	14.760	-50.480E-6	-0.31155	0.0
36.00000	8.00000	15.00000	-6.1399	14.760	-39.972E-6	-0.27411	0.0
37.00000	8.00000	15.00000	-4.8150	14.760	-32.032E-6	-0.24256	0.0
38.00000	8.00000	15.00000	-3.8292	14.760	-25.945E-6	-0.21577	0.0
39.00000	8.00000	15.00000	-3.0727	14.760	-21.218E-6	-0.19285	0.0
40.00000	8.00000	15.00000	-2.4809	14.760	-17.503E-6	-0.17311	0.0
41.00000	8.00000	15.00000	-2.0116	14.760	-14.554E-6	-0.15601	0.0
42.00000	8.00000	15.00000	-1.6359	14.760	-12.189E-6	-0.14113	0.0
43.00000	8.00000	15.00000	-1.3328	14.760	-10.277E-6	-0.12810	0.0
44.00000	8.00000	15.00000	-1.0866	14.760	-8.7175E-6	-0.11664	0.0
45.00000	8.00000	15.00000	-0.88563	14.760	-7.4369E-6	-0.10652	0.0
46.00000	8.00000	15.00000	-0.72094	14.760	-6.3780E-6	-0.097556	0.0
47.00000	8.00000	15.00000	-0.58548	14.760	-5.4967E-6	-0.089575	0.0
48.00000	8.00000	15.00000	-0.47375	14.760	-4.7590E-6	-0.082449	0.0
49.00000	8.00000	15.00000	-0.38138	14.760	-4.1381E-6	-0.076065	0.0
50.00000	8.00000	15.00000	-0.30489	14.760	-3.6127E-6	-0.070328	0.0
51.00000	8.00000	15.00000	-0.24145	14.760	-3.1660E-6	-0.065158	0.0
52.00000	8.00000	15.00000	-0.18878	14.760	-2.7845E-6	-0.060485	0.0
53.00000	8.00000	15.00000	-0.14504	14.760	-2.4573E-6	-0.056259	0.0
54.00000	8.00000	15.00000	-0.10871	14.760	-2.1754E-6	-0.052407	0.0
55.00000	8.00000	15.00000	-0.078534	14.760	-1.9318E-6	-0.048906	0.0
-25.00000	9.00000	15.00000	-0.034690	14.760	-7.5537E-6	-0.10758	0.0
-24.00000	9.00000	15.00000	-0.053718	14.760	-8.8602E-6	-0.11785	0.0
-23.00000	9.00000	15.00000	-0.076460	14.760	-10.452E-6	-0.12959	0.0
-22.00000	9.00000	15.00000	-0.10361	14.760	-12.406E-6	-0.14275	0.0
-21.00000	9.00000	15.00000	-0.13600	14.760	-14.823E-6	-0.15790	0.0
-20.00000	9.00000	15.00000	-0.17464	14.760	-17.840E-6	-0.17531	0.0
-19.00000	9.00000	15.00000	-0.22071	14.760	-21.642E-6	-0.19542	0.0
-18.00000	9.00000	15.00000	-0.27568	14.760	-26.482E-6	-0.21878	0.0
-17.00000	9.00000	15.00000	-0.34131	14.760	-32.717E-6	-0.24614	0.0
-16.00000	9.00000	15.00000	-0.41972	14.760	-40.851E-6	-0.27835	0.0
-15.00000	9.00000	15.00000	-0.51355	14.760	-51.616E-6	-0.31660	0.0
-14.00000	9.00000	15.00000	-0.62599	14.760	-66.098E-6	-0.36243	0.0
-13.00000	9.00000	15.00000	-0.76100	14.760	-85.943E-6	-0.41787	1.1141E-6
-12.00000	9.00000	15.00000	-0.92351	14.760	-113.72E-6	-0.48572	1.2948E-6
-11.00000	9.00000	15.00000	-1.1197	14.760	-153.57E-6	-0.56982	1.5186E-6
-10.00000	9.00000	15.00000	-1.3572	14.760	-212.43E-6	-0.67567	1.8002E-6
-9.00000	9.00000	15.00000	-1.6461	14.760	-302.49E-6	-0.81130	2.1608E-6
-8.00000	9.00000	15.00000	-1.9990	14.760	-446.31E-6	-0.98989	2.6326E-6
-7.00000	9.00000	15.00000	-2.4327	14.760	-688.73E-6	-1.2277	3.2633E-6
-6.00000	9.00000	15.00000	-2.9698	14.760	-0.0011271	-1.5603	4.1470E-6
-5.00000	9.00000	15.00000	-3.6410	14.760	-0.0019987	-2.0450	5.4268E-6
-4.00000	9.00000	15.00000	-4.4911	14.760	-0.0039940	-2.7998	7.4074E-6
-3.00000	9.00000	15.00000	-5.5886	14.760	-0.0095666	-4.0940	10.775E-6
-2.00000	9.00000	15.00000	-7.0512	14.760	-0.032310	-6.7398	17.474E-6
-1.00000	9.00000	15.00000	-9.1198	14.760	-0.24695	-14.645	35.137E-6
0.00000	9.00000	15.00000	-12.552	14.760	-45.000	-106.36	-436.83E-6
1.00000	9.0000						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
12.00000	9.00000	15.00000	-23.819	14.760	-89.999	-211.49	-876.91E-6
13.00000	9.00000	15.00000	-23.897	14.760	-89.999	-211.32	-877.37E-6
14.00000	9.00000	15.00000	-23.933	14.760	-89.998	-211.04	-878.12E-6
15.00000	9.00000	15.00000	-23.927	14.760	-89.998	-210.59	-879.29E-6
16.00000	9.00000	15.00000	-23.881	14.760	-89.996	-209.87	-881.19E-6
17.00000	9.00000	15.00000	-23.791	14.760	-89.990	-208.59	-884.50E-6
18.00000	9.00000	15.00000	-23.650	14.760	-89.967	-205.96	-891.16E-6
19.00000	9.00000	15.00000	-23.444	14.760	-89.753	-198.07	-908.80E-6
20.00000	9.00000	15.00000	-23.629	14.760	-45.000	-106.36	-436.83E-6
21.00000	9.00000	15.00000	-23.787	14.760	-0.24695	-14.645	35.137E-6
22.00000	9.00000	15.00000	-23.499	14.760	-0.032310	-6.7398	17.474E-6
23.00000	9.00000	15.00000	-23.218	14.760	-0.0095666	-4.0940	10.775E-6
24.00000	9.00000	15.00000	-22.924	14.760	-0.0039840	-2.7988	7.4074E-6
25.00000	9.00000	15.00000	-22.599	14.760	-0.0019987	-2.0450	5.4268E-6
26.00000	9.00000	15.00000	-22.229	14.760	-0.0011271	-1.5603	4.1470E-6
27.00000	9.00000	15.00000	-21.795	14.760	-688.73E-6	-1.2277	3.2663E-6
28.00000	9.00000	15.00000	-21.275	14.760	-446.31E-6	-0.98888	2.6326E-6
29.00000	9.00000	15.00000	-20.638	14.760	-302.49E-6	-0.81130	2.1608E-6
30.00000	9.00000	15.00000	-19.842	14.760	-212.43E-6	-0.67567	1.8002E-6
31.00000	9.00000	15.00000	-18.822	14.760	-153.57E-6	-0.56982	1.5186E-6
32.00000	9.00000	15.00000	-17.467	14.760	-113.72E-6	-0.48572	1.2948E-6
33.00000	9.00000	15.00000	-15.550	14.760	-85.943E-6	-0.41787	1.1141E-6
34.00000	9.00000	15.00000	-11.854	14.760	-66.098E-6	-0.36243	0.0
35.00000	9.00000	15.00000	-8.1614	14.760	-51.616E-6	-0.31660	0.0
36.00000	9.00000	15.00000	-6.2527	14.760	-40.851E-6	-0.27835	0.0
37.00000	9.00000	15.00000	-4.9116	14.760	-32.716E-6	-0.24614	0.0
38.00000	9.00000	15.00000	-3.9112	14.760	-26.482E-6	-0.21879	0.0
39.00000	9.00000	15.00000	-3.1417	14.760	-21.642E-6	-0.19542	0.0
40.00000	9.00000	15.00000	-2.5385	14.760	-17.840E-6	-0.17531	0.0
41.00000	9.00000	15.00000	-2.0595	14.760	-14.823E-6	-0.15790	0.0
42.00000	9.00000	15.00000	-1.6755	14.760	-12.406E-6	-0.14270	0.0
43.00000	9.00000	15.00000	-1.3654	14.760	-10.452E-6	-0.12950	0.0
44.00000	9.00000	15.00000	-1.1135	14.760	-8.8602E-6	-0.11785	0.0
45.00000	9.00000	15.00000	-0.90774	14.760	-7.5537E-6	-0.10758	0.0
46.00000	9.00000	15.00000	-0.73907	14.760	-6.4740E-6	-0.098477	0.0
47.00000	9.00000	15.00000	-0.60035	14.760	-5.5760E-6	-0.090382	0.0
48.00000	9.00000	15.00000	-0.48594	14.760	-4.8248E-6	-0.083158	0.0
49.00000	9.00000	15.00000	-0.39136	14.760	-4.1929E-6	-0.076690	0.0
50.00000	9.00000	15.00000	-0.31306	14.760	-3.6586E-6	-0.070880	0.0
51.00000	9.00000	15.00000	-0.24813	14.760	-3.2046E-6	-0.065647	0.0
52.00000	9.00000	15.00000	-0.19425	14.760	-2.8171E-6	-0.060920	0.0
53.00000	9.00000	15.00000	-0.14951	14.760	-2.4849E-6	-0.056639	0.0
54.00000	9.00000	15.00000	-0.11235	14.760	-2.1989E-6	-0.052753	0.0
55.00000	9.00000	15.00000	-0.081506	14.760	-1.9519E-6	-0.049216	0.0
-25.00000	10.00000	15.00000	-0.036084	14.760	-7.6457E-6	-0.10841	0.0
-24.00000	10.00000	15.00000	-0.055417	14.760	-8.9727E-6	-0.11881	0.0
-23.00000	10.00000	15.00000	-0.078527	14.760	-10.590E-6	-0.13060	0.0
-22.00000	10.00000	15.00000	-0.10612	14.760	-12.577E-6	-0.14402	0.0
-21.00000	10.00000	15.00000	-0.13905	14.760	-15.036E-6	-0.15938	0.0
-20.00000	10.00000	15.00000	-0.17834	14.760	-18.106E-6	-0.17703	0.0
-19.00000	10.00000	15.00000	-0.22520	14.760	-21.975E-6	-0.19740	0.0
-18.00000	10.00000	15.00000	-0.28112	14.760	-26.904E-6	-0.22118	0.0
-17.00000	10.00000	15.00000	-0.34789	14.760	-33.253E-6	-0.24895	0.0
-16.00000	10.00000	15.00000	-0.42770	14.760	-41.537E-6	-0.28168	0.0
-15.00000	10.00000	15.00000	-0.52321	14.760	-52.500E-6	-0.32057	0.0
-14.00000	10.00000	15.00000	-0.63768	14.760	-67.244E-6	-0.36717	0.0
-13.00000	10.00000	15.00000	-0.77515	14.760	-87.437E-6	-0.42356	1.1293E-6
-12.00000	10.00000	15.00000	-0.94062	14.760	-115.68E-6	-0.49257	1.3130E-6
-11.00000	10.00000	15.00000	-1.1403	14.760	-156.15E-6	-0.57810	1.5407E-6
-10.00000	10.00000	15.00000	-1.3821	14.760	-215.85E-6	-0.68570	1.8270E-6
-9.00000	10.00000	15.00000	-1.6761	14.760	-307.02E-6	-0.82348	2.1933E-6
-8.00000	10.00000	15.00000	-2.0350	14.760	-452.34E-6	-1.0037	2.6720E-6
-7.00000	10.00000	15.00000	-2.4758	14.760	-696.76E-6	-1.2457	3.3142E-6
-6.00000	10.00000	15.00000	-3.0211	14.760	-0.0011377	-1.5821	4.2051E-6
-5.00000	10.00000	15.00000	-3.7018	14.760	-0.0020127	-2.0714	5.4971E-6
-4.00000	10.00000	15.00000	-4.5625	14.760	-0.0040022	-2.8306	7.4919E-6
-3.00000	10.00000	15.00000	-5.6719	14.760	-0.0095900	-4.1319	10.876E-6
-2.00000	10.00000	15.00000	-7.1473	14.760	-0.032339	-6.7844	17.592E-6
-1.00000	10.00000	15.00000	-9.2294	14.760	-0.24699	-14.697	35.275E-6
0.00000	10.00000	15.00000	-12.676	14.760	-45.000	-106.42	-436.67E-6
1.00000	10.00000	15.00000	-16.120	14.760	-89.753	-198.13	-908.62E-6
2.00000	10.00000	15.00000	-18.197	14.760	-89.967	-206.04	-890.96E-6
3.00000	10.00000	15.00000	-19.662	14.760	-89.990	-208.67	-884.29E-6
4.00000	10.00000	15.00000	-20.757	14.760	-89.996	-209.95	-880.96E-6
5.00000	10.00000	15.00000	-21.599	14.760	-89.998	-210.68	-879.05E-6
6.00000	10.00000	15.00000	-22.256	14.760	-89.998	-211.13	-877.87E-6
7.00000	10.00000	15.00000	-22.772	14.760	-89.999	-211.42	-877.11E-6
8.00000	10.00000	15.00000	-23.177	14.760	-89.999	-211.59	-876.64E-6
9.00000	10.00000	15.00000	-23.492	14.760	-89.999	-211.69	-876.39E-6
10.00000	10.00000	15.00000	-23.735	14.760	-89.999	-211.72	-876.31E-6
11.00000	10.00000	15.00000	-23.915	14.760	-89.999	-211.69	-876.39E-6
12.00000	10.00000	15.00000	-24.043	14.760	-89.999	-211.59	-876.64E-6
13.00000	10.00000	15.00000	-24.122	14.760	-89.999	-211.42	-877.11E-6
14.00000	10.00000	15.00000	-24.159	14.760	-89.998	-211.13	-877.87E-6
15.00000	10.00000	15.00000	-24.153	14.760	-89.998	-210.68	-879.05E-6
16.00000	10.00000	15.00000	-24.107	14.760	-89.996	-209.95	-880.96E-6
17.00000	10.00000	15.00000	-24.016	14.760	-89.990	-208.67	-884.29E-6
18.00000	10.00000	15.00000	-23.873	14.760	-89.967	-206.04	-890.96E-6
19.00000	10.00000	15.00000	-23.665	14.760	-89.753	-198.13	-908.62E-6
20.00000	10.00000	15.00000	-23.847	14.760	-45.000	-106.42	-436.67E-6
21.00000	10.00000	15.00000	-24.002	14.760	-0.24699	-14.697	35.275E-6
22.00000	10.00000	15.00000	-23.710	14.760	-0.032339	-6.7844	17.592E-6
23.00000	10.00000	15.00000	-23.425	14.760	-0.0095900	-4.1319	10.876E-6
24.00000	10.00000	15.00000	-23.126	14.760	-0.0040022	-2.8306	7.4919E-6
25.00000	10.00000	15.00000	-22.796	14.760	-0.0020127	-2.0714	5.4971E-6
26.00000	10.00000	15.00000	-22.419	14.760	-0.0011377	-1.5821	4.2051E-6
27.00000	10.00000	15.00000	-21.978	14.760	-696.76E-6	-1.2457	3.3142E-6
28.00000	10.00000	15.00000	-21.450	14.760	-452.34E-6	-1.0037	2.6720E-6
29.00000	10.00000	15.00000	-20.805	14.760	-307.02E-6	-0.82348	2.1933E-6
30.00000	10.00000	15.00000	-19.999	14.760	-215.85E-6	-0.68570	1.8270E-6
31.00000	10.00000	15.00000	-18.968	14.760	-156.15E-6	-0.57810	1.5407E-6
32.00000	10.00000	15.00000	-17.601	14.760	-115.68E-6	-0.49257	1.3130E-6
33.00000	10.00000	15.00000	-15.672	14.760	-87.437E-6	-0.42356	1.1293E-6
34.00000	10.00000	15.00000	-11.963	14.760	-67.244E-6	-0.36717	0.0
35.00000	10.00000	15.00000	-8.2577	14.760	-52.500E-6	-0.32057	0.0
36.00000	10.00000	15.00000	-6.3367	14.760	-41.537E-6	-0.28168	0.0
37.00000	10.00000	15.00000	-4.9841	14.760</			

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X	Y	Z[Level]	Calc Level	Vert Stress	Sum Princ	Vert Strain	
[m]	[m]	[m]	[MOD]	[kN/m²]	[kN/m²]	[-]	
-20.00000	11.00000	15.00000	-0.18101	14.760	-18.297E-6	-0.17828	0.0
-19.00000	11.00000	15.00000	-0.22844	14.760	-22.215E-6	-0.19890	0.0
-18.00000	11.00000	15.00000	-0.28504	14.760	-27.207E-6	-0.22289	0.0
-17.00000	11.00000	15.00000	-0.35264	14.760	-33.638E-6	-0.25097	0.0
-16.00000	11.00000	15.00000	-0.43345	14.760	-42.028E-6	-0.28408	0.0
-15.00000	11.00000	15.00000	-0.53017	14.760	-53.132E-6	-0.32342	0.0
-14.00000	11.00000	15.00000	-0.64610	14.760	-68.059E-6	-0.37058	0.0
-13.00000	11.00000	15.00000	-0.78533	14.760	-88.495E-6	-0.42764	1.1401E-6
-12.00000	11.00000	15.00000	-0.95291	14.760	-117.06E-6	-0.49747	1.3261E-6
-11.00000	11.00000	15.00000	-1.1551	14.760	-157.95E-6	-0.58401	1.5564E-6
-10.00000	11.00000	15.00000	-1.4000	14.760	-218.22E-6	-0.69283	1.8460E-6
-9.00000	11.00000	15.00000	-1.6975	14.760	-310.14E-6	-0.83210	2.2163E-6
-8.00000	11.00000	15.00000	-2.0606	14.760	-456.43E-6	-1.0141	2.6998E-6
-7.00000	11.00000	15.00000	-2.5064	14.760	-702.12E-6	-1.2583	3.3478E-6
-6.00000	11.00000	15.00000	-3.0573	14.760	-0.0011447	-1.5973	4.2455E-6
-5.00000	11.00000	15.00000	-3.7445	14.760	-0.0020217	-2.0896	5.5456E-6
-4.00000	11.00000	15.00000	-4.6125	14.760	-0.0040138	-2.8523	7.5496E-6
-3.00000	11.00000	15.00000	-5.7298	14.760	-0.0096046	-4.1575	10.944E-6
-2.00000	11.00000	15.00000	-7.2138	14.760	-0.032357	-6.8143	17.672E-6
-1.00000	11.00000	15.00000	-9.3050	14.760	-0.24701	-14.731	35.367E-6
0.00000	11.00000	15.00000	-12.761	14.760	-45.000	-106.46	-436.57E-6
1.00000	11.00000	15.00000	-16.214	14.760	-89.753	-198.18	-908.51E-6
2.00000	11.00000	15.00000	-18.300	14.760	-89.967	-206.09	-890.83E-6
3.00000	11.00000	15.00000	-19.774	14.760	-89.990	-208.73	-884.15E-6
4.00000	11.00000	15.00000	-20.877	14.760	-89.996	-210.01	-880.82E-6
5.00000	11.00000	15.00000	-21.726	14.760	-89.998	-210.74	-878.89E-6
6.00000	11.00000	15.00000	-22.389	14.760	-89.998	-211.19	-877.70E-6
7.00000	11.00000	15.00000	-22.910	14.760	-89.999	-211.48	-876.94E-6
8.00000	11.00000	15.00000	-23.319	14.760	-89.999	-211.66	-876.47E-6
9.00000	11.00000	15.00000	-23.639	14.760	-89.999	-211.75	-876.21E-6
10.00000	11.00000	15.00000	-23.884	14.760	-89.999	-211.79	-876.13E-6
11.00000	11.00000	15.00000	-24.067	14.760	-89.999	-211.75	-876.21E-6
12.00000	11.00000	15.00000	-24.196	14.760	-89.999	-211.66	-876.47E-6
13.00000	11.00000	15.00000	-24.277	14.760	-89.999	-211.48	-876.94E-6
14.00000	11.00000	15.00000	-24.313	14.760	-89.998	-211.19	-877.70E-6
15.00000	11.00000	15.00000	-24.308	14.760	-89.998	-210.74	-878.89E-6
16.00000	11.00000	15.00000	-24.261	14.760	-89.996	-210.01	-880.82E-6
17.00000	11.00000	15.00000	-24.170	14.760	-89.990	-208.73	-884.15E-6
18.00000	11.00000	15.00000	-24.026	14.760	-89.967	-206.09	-890.83E-6
19.00000	11.00000	15.00000	-23.816	14.760	-89.753	-198.18	-908.51E-6
20.00000	11.00000	15.00000	-23.597	14.760	-45.000	-106.46	-436.57E-6
21.00000	11.00000	15.00000	-24.149	14.760	-0.24701	-14.731	35.367E-6
22.00000	11.00000	15.00000	-23.855	14.760	-0.032357	-6.8143	17.672E-6
23.00000	11.00000	15.00000	-23.567	14.760	-0.0096046	-4.1575	10.944E-6
24.00000	11.00000	15.00000	-23.264	14.760	-0.0040138	-2.8523	7.5496E-6
25.00000	11.00000	15.00000	-22.930	14.760	-0.0020217	-2.0896	5.5456E-6
26.00000	11.00000	15.00000	-22.549	14.760	-0.0011447	-1.5973	4.2455E-6
27.00000	11.00000	15.00000	-22.104	14.760	-702.12E-6	-1.2583	3.3478E-6
28.00000	11.00000	15.00000	-21.570	14.760	-456.43E-6	-1.0141	2.6998E-6
29.00000	11.00000	15.00000	-20.918	14.760	-310.14E-6	-0.83210	2.2163E-6
30.00000	11.00000	15.00000	-20.106	14.760	-218.22E-6	-0.69283	1.8460E-6
31.00000	11.00000	15.00000	-19.067	14.760	-157.95E-6	-0.58401	1.5564E-6
32.00000	11.00000	15.00000	-17.692	14.760	-117.06E-6	-0.49747	1.3261E-6
33.00000	11.00000	15.00000	-15.755	14.760	-88.495E-6	-0.42764	1.1401E-6
34.00000	11.00000	15.00000	-12.038	14.760	-68.059E-6	-0.37058	0.0
35.00000	11.00000	15.00000	-8.3240	14.760	-53.132E-6	-0.32342	0.0
36.00000	11.00000	15.00000	-6.3949	14.760	-42.028E-6	-0.28408	0.0
37.00000	11.00000	15.00000	-5.0346	14.760	-33.638E-6	-0.25097	0.0
38.00000	11.00000	15.00000	-4.0164	14.760	-27.207E-6	-0.22289	0.0
39.00000	11.00000	15.00000	-3.2309	14.760	-22.215E-6	-0.19890	0.0
40.00000	11.00000	15.00000	-2.6137	14.760	-18.297E-6	-0.17828	0.0
41.00000	11.00000	15.00000	-2.1224	14.760	-15.189E-6	-0.16045	0.0
42.00000	11.00000	15.00000	-1.7280	14.760	-12.700E-6	-0.14494	0.0
43.00000	11.00000	15.00000	-1.4089	14.760	-10.690E-6	-0.13139	0.0
44.00000	11.00000	15.00000	-1.1494	14.760	-9.0539E-6	-0.11950	0.0
45.00000	11.00000	15.00000	-0.93737	14.760	-7.7121E-6	-0.10901	0.0
46.00000	11.00000	15.00000	-0.76347	14.760	-6.6042E-6	-0.099724	0.0
47.00000	11.00000	15.00000	-0.62040	14.760	-5.6836E-6	-0.091474	0.0
48.00000	11.00000	15.00000	-0.50240	14.760	-4.9141E-6	-0.084117	0.0
49.00000	11.00000	15.00000	-0.40487	14.760	-4.2674E-6	-0.077534	0.0
50.00000	11.00000	15.00000	-0.32413	14.760	-3.7209E-6	-0.071626	0.0
51.00000	11.00000	15.00000	-0.25720	14.760	-3.2570E-6	-0.066308	0.0
52.00000	11.00000	15.00000	-0.20167	14.760	-2.8613E-6	-0.061507	0.0
53.00000	11.00000	15.00000	-0.15558	14.760	-2.5223E-6	-0.057162	0.0
54.00000	11.00000	15.00000	-0.11731	14.760	-2.2308E-6	-0.053220	0.0
55.00000	11.00000	15.00000	-0.08548	14.760	-1.9790E-6	-0.049634	0.0
-25.00000	12.00000	15.00000	-0.037701	14.760	-7.7522E-6	-0.10937	0.0
-24.00000	12.00000	15.00000	-0.057386	14.760	-9.1029E-6	-0.11991	0.0
-23.00000	12.00000	15.00000	-0.080923	14.760	-10.750E-6	-0.13187	0.0
-22.00000	12.00000	15.00000	-0.10903	14.760	-12.774E-6	-0.14550	0.0
-21.00000	12.00000	15.00000	-0.14259	14.760	-15.281E-6	-0.16109	0.0
-20.00000	12.00000	15.00000	-0.18262	14.760	-18.412E-6	-0.17903	0.0
-19.00000	12.00000	15.00000	-0.23039	14.760	-22.360E-6	-0.19978	0.0
-18.00000	12.00000	15.00000	-0.28741	14.760	-27.389E-6	-0.22393	0.0
-17.00000	12.00000	15.00000	-0.35551	14.760	-33.869E-6	-0.25220	0.0
-16.00000	12.00000	15.00000	-0.43693	14.760	-42.324E-6	-0.28553	0.0
-15.00000	12.00000	15.00000	-0.53437	14.760	-53.510E-6	-0.32514	0.0
-14.00000	12.00000	15.00000	-0.65118	14.760	-68.547E-6	-0.37263	0.0
-13.00000	12.00000	15.00000	-0.79146	14.760	-89.125E-6	-0.43010	1.1467E-6
-12.00000	12.00000	15.00000	-0.96030	14.760	-117.88E-6	-0.50042	1.3339E-6
-11.00000	12.00000	15.00000	-1.1640	14.760	-159.02E-6	-0.58755	1.5659E-6
-10.00000	12.00000	15.00000	-1.4107	14.760	-219.61E-6	-0.69710	1.8573E-6
-9.00000	12.00000	15.00000	-1.7103	14.760	-311.95E-6	-0.83724	2.2299E-6
-8.00000	12.00000	15.00000	-2.0760	14.760	-458.80E-6	-1.0203	2.7163E-6
-7.00000	12.00000	15.00000	-2.5246	14.760	-705.19E-6	-1.2658	3.3676E-6
-6.00000	12.00000	15.00000	-3.0789	14.760	-0.0011487	-1.6062	4.2693E-6
-5.00000	12.00000	15.00000	-3.7				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	29.00000	12.00000	15.00000	-20.984	14.760	-311.95E-6	2.2299E-6
	30.00000	12.00000	15.00000	-20.168	14.760	-219.61E-6	1.8573E-6
	31.00000	12.00000	15.00000	-19.125	14.760	-159.02E-6	1.5659E-6
	32.00000	12.00000	15.00000	-17.746	14.760	-117.88E-6	1.3339E-6
	33.00000	12.00000	15.00000	-15.803	14.760	-89.125E-6	1.1467E-6
	34.00000	12.00000	15.00000	-12.082	14.760	-68.547E-6	0.3726E-6
	35.00000	12.00000	15.00000	-8.3628	14.760	-53.510E-6	0.3251E-6
	36.00000	12.00000	15.00000	-6.4290	14.760	-42.324E-6	0.2855E-6
	37.00000	12.00000	15.00000	-5.0643	14.760	-33.869E-6	0.2522E-6
	38.00000	12.00000	15.00000	-4.0420	14.760	-27.389E-6	0.2239E-6
	39.00000	12.00000	15.00000	-3.2528	14.760	-22.360E-6	0.1997E-6
	40.00000	12.00000	15.00000	-2.6321	14.760	-18.412E-6	0.1790E-6
	41.00000	12.00000	15.00000	-2.1380	14.760	-15.281E-6	0.1610E-6
	42.00000	12.00000	15.00000	-1.7410	14.760	-12.774E-6	0.1455E-6
	43.00000	12.00000	15.00000	-1.4197	14.760	-10.750E-6	0.1318E-6
	44.00000	12.00000	15.00000	-1.1584	14.760	-9.1029E-6	0.1199E-6
	45.00000	12.00000	15.00000	-0.94480	14.760	-7.7522E-6	0.1093E-6
	46.00000	12.00000	15.00000	-0.76960	14.760	-6.6372E-6	0.1000E-6
	47.00000	12.00000	15.00000	-0.62545	14.760	-5.7108E-6	0.09175E-6
	48.00000	12.00000	15.00000	-0.50656	14.760	-4.9367E-6	0.08435E-6
	49.00000	12.00000	15.00000	-0.40828	14.760	-4.2862E-6	0.07774E-6
	50.00000	12.00000	15.00000	-0.32693	14.760	-3.7367E-6	0.07181E-6
	51.00000	12.00000	15.00000	-0.25949	14.760	-3.2702E-6	0.06647E-6
	52.00000	12.00000	15.00000	-0.20355	14.760	-2.8725E-6	0.06165E-6
	53.00000	12.00000	15.00000	-0.15711	14.760	-2.5318E-6	0.05729E-6
	54.00000	12.00000	15.00000	-0.11856	14.760	-2.2388E-6	0.05337E-6
	55.00000	12.00000	15.00000	-0.086573	14.760	-1.9859E-6	0.04973E-6
	-25.00000	13.00000	15.00000	-0.037905	14.760	-7.7656E-6	0.1094E-6
	-24.00000	13.00000	15.00000	-0.057635	14.760	-9.1193E-6	0.1200E-6
	-23.00000	13.00000	15.00000	-0.081225	14.760	-10.770E-6	0.1320E-6
	-22.00000	13.00000	15.00000	-0.109400	14.760	-12.799E-6	0.1456E-6
	-21.00000	13.00000	15.00000	-0.14303	14.760	-15.312E-6	0.1613E-6
	-20.00000	13.00000	15.00000	-0.18316	14.760	-18.450E-6	0.1792E-6
	-19.00000	13.00000	15.00000	-0.23105	14.760	-22.408E-6	0.2000E-6
	-18.00000	13.00000	15.00000	-0.28820	14.760	-27.450E-6	0.2242E-6
	-17.00000	13.00000	15.00000	-0.35647	14.760	-33.946E-6	0.2526E-6
	-16.00000	13.00000	15.00000	-0.43809	14.760	-42.422E-6	0.2860E-6
	-15.00000	13.00000	15.00000	-0.53577	14.760	-53.636E-6	0.3257E-6
	-14.00000	13.00000	15.00000	-0.65287	14.760	-68.709E-6	0.3733E-6
	-13.00000	13.00000	15.00000	-0.79351	14.760	-89.335E-6	0.4309E-6
	-12.00000	13.00000	15.00000	-0.96277	14.760	-118.15E-6	0.50140E-6
	-11.00000	13.00000	15.00000	-1.1670	14.760	-159.37E-6	0.5887E-6
	-10.00000	13.00000	15.00000	-1.4142	14.760	-220.07E-6	0.6985E-6
	-9.00000	13.00000	15.00000	-1.7146	14.760	-312.55E-6	0.8389E-6
	-8.00000	13.00000	15.00000	-2.0811	14.760	-459.57E-6	1.0224E-6
	-7.00000	13.00000	15.00000	-2.5307	14.760	-706.19E-6	1.2683E-6
	-6.00000	13.00000	15.00000	-3.0860	14.760	-0.0011500	-1.6092E-6
	-5.00000	13.00000	15.00000	-3.7782	14.760	-0.0020284	-2.1037E-6
	-4.00000	13.00000	15.00000	-4.6518	14.760	-0.0040223	-2.8690E-6
	-3.00000	13.00000	15.00000	-5.7753	14.760	-0.0096151	-4.1772E-6
	-2.00000	13.00000	15.00000	-7.2659	14.760	-0.032370	-6.8372E-6
	-1.00000	13.00000	15.00000	-9.3640	14.760	-0.24702	-14.757E-6
	0.00000	13.00000	15.00000	-12.827	14.760	-45.000	-106.49E-6
	1.00000	13.00000	15.00000	-16.287	14.760	-89.753	-198.21E-6
	2.00000	13.00000	15.00000	-18.380	14.760	-89.967	-206.12E-6
	3.00000	13.00000	15.00000	-19.860	14.760	-89.996	-208.77E-6
	4.00000	13.00000	15.00000	-20.969	14.760	-89.996	-210.05E-6
	5.00000	13.00000	15.00000	-21.823	14.760	-89.998	-210.78E-6
	6.00000	13.00000	15.00000	-22.491	14.760	-89.999	-211.24E-6
	7.00000	13.00000	15.00000	-23.017	14.760	-89.999	-211.53E-6
	8.00000	13.00000	15.00000	-23.429	14.760	-89.999	-211.80E-6
	9.00000	13.00000	15.00000	-23.752	14.760	-89.999	-211.80E-6
	10.00000	13.00000	15.00000	-23.999	14.760	-89.999	-211.84E-6
	11.00000	13.00000	15.00000	-24.184	14.760	-89.999	-211.80E-6
	12.00000	13.00000	15.00000	-24.314	14.760	-89.999	-211.71E-6
	13.00000	13.00000	15.00000	-24.396	14.760	-89.999	-211.53E-6
	14.00000	13.00000	15.00000	-24.433	14.760	-89.999	-211.24E-6
	15.00000	13.00000	15.00000	-24.428	14.760	-89.998	-210.78E-6
	16.00000	13.00000	15.00000	-24.381	14.760	-89.996	-210.05E-6
	17.00000	13.00000	15.00000	-24.289	14.760	-89.990	-208.77E-6
	18.00000	13.00000	15.00000	-24.144	14.760	-89.967	-206.12E-6
	19.00000	13.00000	15.00000	-23.933	14.760	-89.753	-198.21E-6
	20.00000	13.00000	15.00000	-24.112	14.760	-45.000	-106.49E-6
	21.00000	13.00000	15.00000	-24.264	14.760	-0.24702	-14.757E-6
	22.00000	13.00000	15.00000	-23.967	14.760	-0.032370	-6.8372E-6
	23.00000	13.00000	15.00000	-23.677	14.760	-0.0096151	-4.1772E-6
	24.00000	13.00000	15.00000	-23.371	14.760	-0.0040223	-2.8690E-6
	25.00000	13.00000	15.00000	-23.034	14.760	-0.0020284	-2.1037E-6
	26.00000	13.00000	15.00000	-22.650	14.760	-0.0011500	-1.6092E-6
	27.00000	13.00000	15.00000	-22.200	14.760	-706.19E-6	-1.2683E-6
	28.00000	13.00000	15.00000	-21.663	14.760	-459.57E-6	-1.0224E-6
	29.00000	13.00000	15.00000	-21.006	14.760	-312.55E-6	-0.8389E-6
	30.00000	13.00000	15.00000	-20.188	14.760	-220.07E-6	-0.6985E-6
	31.00000	13.00000	15.00000	-19.144	14.760	-159.37E-6	-0.5887E-6
	32.00000	13.00000	15.00000	-17.763	14.760	-118.15E-6	-0.50140E-6
	33.00000	13.00000	15.00000	-15.819	14.760	-89.335E-6	-0.4309E-6
	34.00000	13.00000	15.00000	-12.096	14.760	-68.709E-6	-0.3733E-6
	35.00000	13.00000	15.00000	-8.3756	14.760	-53.636E-6	-0.3257E-6
	36.00000	13.00000	15.00000	-6.4403	14.760	-42.422E-6	-0.2860E-6
	37.00000	13.00000	15.00000	-5.0741	14.760	-33.946E-6	-0.2526E-6
	38.00000	13.00000	15.00000	-4.0505	14.760	-27.450E-6	-0.2242E-6
	39.00000	13.00000	15.00000	-3.2600	14.760	-22.408E-6	-0.2000E-6
	40.00000	13.00000	15.00000	-2.6383	14.760	-18.450E-6	-0.1792E-6
	41.00000	13.00000	15.00000	-2.1432	14.760	-15.312E-6	-0.1613E-6
	42.00000	13.00000	15.00000	-1.7453	14.760	-12.799E-6	-0.1456E-6
	43.00000	13.00000	15.00000	-1.4233	14.760	-10.770E-6	-0.1320E-6
	44.00000	13.00000	15.00000	-1.1614	14.760	-9.1193E-6	-0.1200E-6
	45.00000	13.00000	15.00000	-0.94728	14.760	-7.7656E-6	-0.1094E-6
	46.00000	13.00000	15.00000	-0.77165	14.760	-6.6482E-6	-0.1001E-6
	47.00000	13.00000	15.00000	-0.62714	14.760	-5.7199E-6	-0.09184E-6
	48.00000	13.00000	15.00000	-0.50794	14.760	-4.9443E-6	-0.08440E-6
	49.00000	13.00000	15.00000	-0.40942	14.760	-4.2925E-6	-0.07819E-6
	50.00000	13.00000	15.00000	-0.32786	14.760	-3.7419E-6	-0.07187E-6
	51.00000	13.00000	15.00000	-0.26026	14.760	-3.2747E-6	-0.06653E-6
	52.00000	13.00000	15.00000	-0.20418	14.760	-2.8762E-6	-0.06170E-6
	53.00000	13.00000	15.00000	-0.15763	14.760	-2.5349E-6	-0.05733E-6
	54.00000	13.00000	15.00000	-0.11899	14.760	-2.2415E-6	-0.05337E-6
	55.00000	13.00000	15.00000	-0.086916	14.760	-1.9881E-6	-0.04977E-6
	-25.00000	14.00000	15.00000	-0.037701	14.760	-7.7522E-6	0.1093E-6
	-24.00000	14.00000	15.00000	-0.057386	14.760	-9.1029E-6	0.1199E-6
	-23.00000	14.00000	15.00000	-0.080923	14.760	-10.750E-6	0.1318E-6
	-22.00000	14.00000	15.00000	-0.10903	14.760	-12.774E-6	0.1455E-6
	-21.00000	14.00000	15.00000	-0.14259	14.760	-15.281E-6	0.1610E-6
	-20.00000	14.00000	15.00000	-0.18262	14.760	-18.412E-6	0.1790E-6
	-19.00000	14.00000	15.00000	-0.23039	14.760	-22.360E-6	0.1997E-6
	-18.00000	14.00000	15.00000	-0.28741	14.760	-27.389E-6	0.2239E-6
	-17.00000	14.00000	15.00000	-0.35551	14.760	-33.869E-6	0.2522E-6
	-16.00000	14.00000	15.00000	-0.43693	14.760	-42.324E-6	0.2855E-6
	-15.00000	14.00000	15.00000	-0.53437	14.760	-53.510E-6	0.3251E-6
	-14.00000	14.00000	15.00000	-0.65118	14.760	-68.547E-6	0.3726E-6
	-13.00000	14.00000	15.00000	-0.79146	14.760	-89.125E-6	0.43010E-6
	-12.00000	14.00000	15.00000	-0.96030	14.760	-117.88E-6	0.50042E-6
	-11.00000	14.00000	15.00000	-1.1640	14.760	-159.02E-6	0.58755E-6
	-10.00000						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [m]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
-3.00000	14.00000	15.00000	-5.7640	14.760	-0.0096125	-4.1723	10.984E-6
-2.00000	14.00000	15.00000	-7.2530	14.760	-0.032367	-6.8316	17.718E-6
-1.00000	14.00000	15.00000	-9.3493	14.760	-0.24702	-14.751	35.420E-6
0.00000	14.00000	15.00000	-12.810	14.760	-45.000	-106.48	-436.51E-6
1.00000	14.00000	15.00000	-16.269	14.760	-89.753	-198.20	-908.44E-6
2.00000	14.00000	15.00000	-18.360	14.760	-89.967	-206.11	-890.76E-6
3.00000	14.00000	15.00000	-19.839	14.760	-89.990	-208.76	-884.07E-6
4.00000	14.00000	15.00000	-20.946	14.760	-89.996	-210.04	-880.73E-6
5.00000	14.00000	15.00000	-21.799	14.760	-89.998	-210.77	-878.80E-6
6.00000	14.00000	15.00000	-22.466	14.760	-89.999	-211.23	-877.61E-6
7.00000	14.00000	15.00000	-22.990	14.760	-89.999	-211.52	-876.85E-6
8.00000	14.00000	15.00000	-23.402	14.760	-89.999	-211.69	-876.37E-6
9.00000	14.00000	15.00000	-23.724	14.760	-89.999	-211.79	-876.11E-6
10.00000	14.00000	15.00000	-23.971	14.760	-89.999	-211.82	-876.03E-6
11.00000	14.00000	15.00000	-24.155	14.760	-89.999	-211.79	-876.11E-6
12.00000	14.00000	15.00000	-24.285	14.760	-89.999	-211.69	-876.37E-6
13.00000	14.00000	15.00000	-24.366	14.760	-89.999	-211.52	-876.85E-6
14.00000	14.00000	15.00000	-24.404	14.760	-89.999	-211.23	-877.61E-6
15.00000	14.00000	15.00000	-24.399	14.760	-89.998	-210.77	-878.80E-6
16.00000	14.00000	15.00000	-24.351	14.760	-89.996	-210.04	-880.73E-6
17.00000	14.00000	15.00000	-24.259	14.760	-89.990	-208.76	-884.07E-6
18.00000	14.00000	15.00000	-24.115	14.760	-89.967	-206.11	-890.76E-6
19.00000	14.00000	15.00000	-23.904	14.760	-89.753	-198.20	-908.44E-6
20.00000	14.00000	15.00000	-24.084	14.760	-45.000	-106.48	-436.51E-6
21.00000	14.00000	15.00000	-24.235	14.760	-0.24702	-14.751	35.420E-6
22.00000	14.00000	15.00000	-23.939	14.760	-0.032367	-6.8316	17.718E-6
23.00000	14.00000	15.00000	-23.649	14.760	-0.0096125	-4.1723	10.984E-6
24.00000	14.00000	15.00000	-23.345	14.760	-0.0040202	-2.8649	7.5832E-6
25.00000	14.00000	15.00000	-23.009	14.760	-0.0020268	-2.1002	5.5740E-6
26.00000	14.00000	15.00000	-22.625	14.760	-0.0011487	-1.6062	4.2693E-6
27.00000	14.00000	15.00000	-22.176	14.760	-705.192E-6	-1.2656	3.3676E-6
28.00000	14.00000	15.00000	-21.640	14.760	-458.80E-6	-1.0203	2.7163E-6
29.00000	14.00000	15.00000	-20.984	14.760	-311.95E-6	-0.83724	2.2299E-6
30.00000	14.00000	15.00000	-20.168	14.760	-219.61E-6	-0.69710	1.8573E-6
31.00000	14.00000	15.00000	-19.125	14.760	-159.02E-6	-0.58755	1.5659E-6
32.00000	14.00000	15.00000	-17.746	14.760	-117.88E-6	-0.50042	1.3339E-6
33.00000	14.00000	15.00000	-15.803	14.760	-89.125E-6	-0.43010	1.1467E-6
34.00000	14.00000	15.00000	-12.082	14.760	-68.547E-6	-0.37263	0.0
35.00000	14.00000	15.00000	-8.3628	14.760	-53.510E-6	-0.32514	0.0
36.00000	14.00000	15.00000	-6.4290	14.760	-42.324E-6	-0.28553	0.0
37.00000	14.00000	15.00000	-5.0643	14.760	-33.869E-6	-0.25222	0.0
38.00000	14.00000	15.00000	-4.0420	14.760	-27.389E-6	-0.22393	0.0
39.00000	14.00000	15.00000	-3.2528	14.760	-22.360E-6	-0.19978	0.0
40.00000	14.00000	15.00000	-2.6321	14.760	-18.412E-6	-0.17903	0.0
41.00000	14.00000	15.00000	-2.1380	14.760	-15.281E-6	-0.16109	0.0
42.00000	14.00000	15.00000	-1.7410	14.760	-12.774E-6	-0.14550	0.0
43.00000	14.00000	15.00000	-1.4197	14.760	-10.750E-6	-0.13187	0.0
44.00000	14.00000	15.00000	-1.1584	14.760	-9.1029E-6	-0.11991	0.0
45.00000	14.00000	15.00000	-0.94480	14.760	-7.7522E-6	-0.10937	0.0
46.00000	14.00000	15.00000	-0.76960	14.760	-6.6372E-6	-0.10004	0.0
47.00000	14.00000	15.00000	-0.62545	14.760	-5.7108E-6	-0.091750	0.0
48.00000	14.00000	15.00000	-0.50656	14.760	-4.9367E-6	-0.084359	0.0
49.00000	14.00000	15.00000	-0.40828	14.760	-4.2862E-6	-0.077748	0.0
50.00000	14.00000	15.00000	-0.32693	14.760	-3.7367E-6	-0.071815	0.0
51.00000	14.00000	15.00000	-0.25949	14.760	-3.2702E-6	-0.066475	0.0
52.00000	15.00000	15.00000	-0.20355	14.760	-2.8725E-6	-0.061655	0.0
53.00000	14.00000	15.00000	-0.15711	14.760	-2.5318E-6	-0.057294	0.0
54.00000	14.00000	15.00000	-0.11856	14.760	-2.2388E-6	-0.053337	0.0
55.00000	14.00000	15.00000	-0.086573	14.760	-1.9859E-6	-0.049739	0.0
-25.00000	15.00000	15.00000	-0.037092	14.760	-7.7121E-6	-0.10901	0.0
-24.00000	15.00000	15.00000	-0.056644	14.760	-9.0539E-6	-0.11950	0.0
-23.00000	15.00000	15.00000	-0.080020	14.760	-10.690E-6	-0.13139	0.0
-22.00000	15.00000	15.00000	-0.10794	14.760	-12.700E-6	-0.14494	0.0
-21.00000	15.00000	15.00000	-0.14126	14.760	-15.189E-6	-0.16045	0.0
-20.00000	15.00000	15.00000	-0.18101	14.760	-18.297E-6	-0.17828	0.0
-19.00000	15.00000	15.00000	-0.22844	14.760	-22.215E-6	-0.19890	0.0
-18.00000	15.00000	15.00000	-0.28504	14.760	-27.207E-6	-0.22289	0.0
-17.00000	15.00000	15.00000	-0.35264	14.760	-33.638E-6	-0.25097	0.0
-16.00000	15.00000	15.00000	-0.43345	14.760	-42.028E-6	-0.28408	0.0
-15.00000	15.00000	15.00000	-0.53017	14.760	-53.132E-6	-0.32342	0.0
-14.00000	15.00000	15.00000	-0.64610	14.760	-68.059E-6	-0.37058	0.0
-13.00000	15.00000	15.00000	-0.78533	14.760	-88.495E-6	-0.42764	1.1401E-6
-12.00000	15.00000	15.00000	-0.95291	14.760	-117.06E-6	-0.49747	1.3261E-6
-11.00000	15.00000	15.00000	-1.1551	14.760	-157.95E-6	-0.58401	1.5564E-6
-10.00000	15.00000	15.00000	-1.4000	14.760	-218.22E-6	-0.69283	1.8460E-6
-9.00000	15.00000	15.00000	-1.6975	14.760	-310.14E-6	-0.83119	2.2163E-6
-8.00000	15.00000	15.00000	-2.0606	14.760	-456.43E-6	-1.0141	2.6998E-6
-7.00000	15.00000	15.00000	-2.5064	14.760	-702.12E-6	-1.2583	3.3478E-6
-6.00000	15.00000	15.00000	-3.0573	14.760	-0.0011447	-1.5973	4.2455E-6
-5.00000	15.00000	15.00000	-3.7445	14.760	-0.0020217	-2.0896	5.5456E-6
-4.00000	15.00000	15.00000	-4.6125	14.760	-0.0040138	-2.8523	7.5496E-6
-3.00000	15.00000	15.00000	-5.7298	14.760	-0.0096046	-4.1575	10.944E-6
-2.00000	15.00000	15.00000	-7.2138	14.760	-0.032357	-6.8143	17.672E-6
-1.00000	15.00000	15.00000	-9.3050	14.760	-0.24701	-14.731	35.367E-6
0.00000	15.00000	15.00000	-12.761	14.760	-45.000	-106.46	-436.57E-6
1.00000	15.00000	15.00000	-16.214	14.760	-89.753	-198.18	-908.51E-6
2.00000	15.00000	15.00000	-18.300	14.760	-89.967	-206.09	-890.83E-6
3.00000	15.00000	15.00000	-19.774	14.760	-89.990	-208.73	-884.15E-6
4.00000	15.00000	15.00000	-20.877	14.760	-89.996	-210.01	-880.82E-6
5.00000	15.00000	15.00000	-21.726	14.760	-89.998	-210.74	-878.89E-6
6.00000	15.00000	15.00000	-22.389	14.760	-89.999	-211.19	-877.70E-6
7.00000	15.00000	15.00000	-22.910	14.760	-89.999	-211.48	-876.94E-6
8.00000	15.00000	15.00000	-23.319	14.760	-89.999	-211.66	-876.47E-6
9.00000	15.00000	15.00000	-23.639	14.760	-89.999	-211.75	-876.21E-6
10.00000	15.00000	15.00000	-23.884	14.760	-89.999	-211.79	-876.13E-6
11.00000	15.00000	15.00000	-24.067	14.760	-89.999	-211.75	-876.21E-6
12.00000	15.00000	15.00000	-24.196	14.760	-89.999	-211.66	-876.47E-6
13.00000	15.00000	15.00000	-24.277	14.760	-89.999	-211.48	-876.94E-6
14.00000	15.00000	15.00000	-24.313	14.760	-89.998	-211.19	-877.70E-6
15.00000	15.00000	15.00000	-24.308	14.760	-89.998	-210.74	-878.89E-6
16.00000	15.00000	15.00000	-24.261	14.760	-89.999	-210.01	-880.82E-6
17.00000	15.00000	15.00000	-24.170	14.760	-89.990	-208.73	-884.15E-6
18.00000	15.00000	15.00000	-24.026	14.760	-89.967	-206.09	-890.83E-6
19.00000	15.00000	15.00000	-23.816	14.760	-89.753	-198.18	-908.51E-6
20.00000	15.00000	15.00000	-23.997	14.760	-45.000	-106.46	-436.57E-6
21.00000	15.00000	15.00000	-24.149	14.760	-0.24701	-14.731	35.367E-6
22.00000	15.00000	15.00000	-23.855	14.760	-0.032357	-6.8143	17.672E-6
23.00000	15.00000	15.00000	-23.567	14.760	-0.0096046	-4.1575	10.944E-6
24.00000	15.00000	15.00000	-23.264	14.760	-0.0040138	-2.8523	7.5496E-6
25.00000	15.00000	15.00000	-22.930	14.760	-0.0020217	-2.0896	5.5456E-6
26.00000	15.00000	15.00000	-22.549	14.760	-0.0011447	-1.5973	4.2455E-6
27.00000	15.00000	15.00000	-22.104	14.760	-702.12E-6	-1.2583	3.3478E-6
28.00000	15.00000	15.00000	-21.570	14.760	-456.43E-6	-1.0141	2.6998E-6
29.00000	15.00000	15.00000	-20.918	14.760	-310.14E-6	-0.83210	2.2163E-6
30.00000	15.00000	15.00000	-20.106	14.760	-218.22E-6	-0.69283	1.8460E-6
31.00000	15.00000	15.00000	-19.067	14.760	-157.95E-6	-0.58401	1.5564E-6
32.00000	15.00000	15.00000	-17.692	14.760	-117.06E-6	-0.49747	1.3261E-6
33.00000	15.00000	15.00000	-15.755	14.760	-88.495E-6	-0.42764	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
46.00000	15.00000	15.00000	-0.76347	14.760	-6.6042E-6	-0.099724	0.0
47.00000	15.00000	15.00000	-0.62040	14.760	-5.6836E-6	-0.091474	0.0
48.00000	15.00000	15.00000	-0.50240	14.760	-4.9141E-6	-0.084117	0.0
49.00000	15.00000	15.00000	-0.40487	14.760	-4.2674E-6	-0.077534	0.0
50.00000	15.00000	15.00000	-0.32413	14.760	-3.7209E-6	-0.071626	0.0
51.00000	15.00000	15.00000	-0.25720	14.760	-3.2570E-6	-0.066308	0.0
52.00000	15.00000	15.00000	-0.20167	14.760	-2.8613E-6	-0.061507	0.0
53.00000	15.00000	15.00000	-0.15558	14.760	-2.5223E-6	-0.057162	0.0
54.00000	15.00000	15.00000	-0.11731	14.760	-2.2308E-6	-0.053220	0.0
55.00000	15.00000	15.00000	-0.08548	14.760	-1.9790E-6	-0.049634	0.0
-25.00000	16.00000	15.00000	-0.036084	14.760	-7.6457E-6	-0.10841	0.0
-24.00000	16.00000	15.00000	-0.055417	14.760	-8.9727E-6	-0.11881	0.0
-23.00000	16.00000	15.00000	-0.078527	14.760	-10.590E-6	-0.13060	0.0
-22.00000	16.00000	15.00000	-0.10612	14.760	-12.577E-6	-0.14402	0.0
-21.00000	16.00000	15.00000	-0.13905	14.760	-15.036E-6	-0.15938	0.0
-20.00000	16.00000	15.00000	-0.17834	14.760	-18.106E-6	-0.17703	0.0
-19.00000	16.00000	15.00000	-0.22520	14.760	-21.975E-6	-0.19744	0.0
-18.00000	16.00000	15.00000	-0.28112	14.760	-26.904E-6	-0.22118	0.0
-17.00000	16.00000	15.00000	-0.34789	14.760	-33.253E-6	-0.24895	0.0
-16.00000	16.00000	15.00000	-0.42770	14.760	-41.537E-6	-0.28168	0.0
-15.00000	16.00000	15.00000	-0.52321	14.760	-52.500E-6	-0.32057	0.0
-14.00000	16.00000	15.00000	-0.63768	14.760	-67.244E-6	-0.36717	0.0
-13.00000	16.00000	15.00000	-0.77515	14.760	-87.437E-6	-0.42356	1.1293E-6
-12.00000	16.00000	15.00000	-0.94062	14.760	-115.68E-6	-0.49257	1.3130E-6
-11.00000	16.00000	15.00000	-1.1403	14.760	-156.15E-6	-0.57810	1.5407E-6
-10.00000	16.00000	15.00000	-1.3821	14.760	-215.85E-6	-0.68570	1.8270E-6
-9.00000	16.00000	15.00000	-1.6761	14.760	-307.02E-6	-0.82348	2.1933E-6
-8.00000	16.00000	15.00000	-2.0350	14.760	-452.34E-6	-1.0037	2.6720E-6
-7.00000	16.00000	15.00000	-2.4758	14.760	-696.76E-6	-1.2457	3.3142E-6
-6.00000	16.00000	15.00000	-3.0211	14.760	-0.0011377	-1.5821	4.2051E-6
-5.00000	16.00000	15.00000	-3.7018	14.760	-0.002012	-2.0714	5.4971E-6
-4.00000	16.00000	15.00000	-4.5625	14.760	-0.0040022	-2.8306	7.4919E-6
-3.00000	16.00000	15.00000	-5.6719	14.760	-0.0095900	-4.1319	10.876E-6
-2.00000	16.00000	15.00000	-7.1473	14.760	-0.032339	-6.7844	17.592E-6
-1.00000	16.00000	15.00000	-9.2294	14.760	-0.24699	-14.697	35.275E-6
0.00000	16.00000	15.00000	-12.676	14.760	-45.000	-106.42	-436.67E-6
1.00000	16.00000	15.00000	-16.120	14.760	-89.753	-198.13	-908.62E-6
2.00000	16.00000	15.00000	-18.197	14.760	-89.967	-206.04	-890.96E-6
3.00000	16.00000	15.00000	-19.662	14.760	-89.990	-208.67	-884.29E-6
4.00000	16.00000	15.00000	-20.757	14.760	-89.996	-209.95	-880.96E-6
5.00000	16.00000	15.00000	-21.599	14.760	-89.998	-210.68	-879.05E-6
6.00000	16.00000	15.00000	-22.256	14.760	-89.998	-211.13	-877.87E-6
7.00000	16.00000	15.00000	-22.772	14.760	-89.999	-211.42	-877.11E-6
8.00000	16.00000	15.00000	-23.177	14.760	-89.999	-211.59	-876.64E-6
9.00000	16.00000	15.00000	-23.492	14.760	-89.999	-211.69	-876.39E-6
10.00000	16.00000	15.00000	-23.735	14.760	-89.999	-211.73	-876.16E-6
11.00000	16.00000	15.00000	-23.915	14.760	-89.999	-211.69	-876.39E-6
12.00000	16.00000	15.00000	-24.043	14.760	-89.999	-211.59	-876.64E-6
13.00000	16.00000	15.00000	-24.122	14.760	-89.999	-211.42	-877.11E-6
14.00000	16.00000	15.00000	-24.159	14.760	-89.998	-211.13	-877.87E-6
15.00000	16.00000	15.00000	-24.153	14.760	-89.998	-210.68	-879.05E-6
16.00000	16.00000	15.00000	-24.107	14.760	-89.996	-209.95	-880.96E-6
17.00000	16.00000	15.00000	-24.016	14.760	-89.990	-208.67	-884.29E-6
18.00000	16.00000	15.00000	-23.873	14.760	-89.967	-206.04	-890.96E-6
19.00000	16.00000	15.00000	-23.665	14.760	-89.753	-198.13	-908.62E-6
20.00000	16.00000	15.00000	-23.447	14.760	-45.000	-106.42	-436.67E-6
21.00000	16.00000	15.00000	-24.002	14.760	-0.24699	-14.697	35.275E-6
22.00000	16.00000	15.00000	-23.710	14.760	-0.032339	-6.7844	17.592E-6
23.00000	16.00000	15.00000	-23.425	14.760	-0.0095900	-4.1319	10.876E-6
24.00000	16.00000	15.00000	-23.126	14.760	-0.0040022	-2.8306	7.4919E-6
25.00000	16.00000	15.00000	-22.796	14.760	-0.002012	-2.0714	5.4971E-6
26.00000	16.00000	15.00000	-22.419	14.760	-0.0011377	-1.5821	4.2051E-6
27.00000	16.00000	15.00000	-21.978	14.760	-696.76E-6	-1.2457	3.3142E-6
28.00000	16.00000	15.00000	-21.450	14.760	-452.34E-6	-1.0037	2.6720E-6
29.00000	16.00000	15.00000	-20.805	14.760	-307.02E-6	-0.82348	2.1933E-6
30.00000	16.00000	15.00000	-19.999	14.760	-215.85E-6	-0.68570	1.8270E-6
31.00000	16.00000	15.00000	-18.968	14.760	-156.15E-6	-0.57810	1.5407E-6
32.00000	16.00000	15.00000	-17.601	14.760	-115.68E-6	-0.49257	1.3130E-6
33.00000	16.00000	15.00000	-15.672	14.760	-87.437E-6	-0.42356	1.1293E-6
34.00000	16.00000	15.00000	-11.963	14.760	-67.244E-6	-0.36717	0.0
35.00000	16.00000	15.00000	-8.2577	14.760	-52.500E-6	-0.32057	0.0
36.00000	16.00000	15.00000	-6.3367	14.760	-41.537E-6	-0.28168	0.0
37.00000	16.00000	15.00000	-4.9841	14.760	-33.253E-6	-0.24895	0.0
38.00000	16.00000	15.00000	-3.9732	14.760	-26.904E-6	-0.22118	0.0
39.00000	16.00000	15.00000	-3.1941	14.760	-21.975E-6	-0.19744	0.0
40.00000	16.00000	15.00000	-2.5826	14.760	-18.106E-6	-0.17703	0.0
41.00000	16.00000	15.00000	-2.0964	14.760	-15.036E-6	-0.15938	0.0
42.00000	16.00000	15.00000	-1.7062	14.760	-12.577E-6	-0.14402	0.0
43.00000	16.00000	15.00000	-1.3908	14.760	-10.590E-6	-0.13060	0.0
44.00000	16.00000	15.00000	-1.1344	14.760	-8.9727E-6	-0.11881	0.0
45.00000	16.00000	15.00000	-0.92500	14.760	-7.6457E-6	-0.10841	0.0
46.00000	16.00000	15.00000	-0.75328	14.760	-6.5496E-6	-0.099202	0.0
47.00000	16.00000	15.00000	-0.61202	14.760	-5.6385E-6	-0.091017	0.0
48.00000	16.00000	15.00000	-0.49551	14.760	-4.8767E-6	-0.083716	0.0
49.00000	16.00000	15.00000	-0.39922	14.760	-4.2362E-6	-0.077181	0.0
50.00000	16.00000	15.00000	-0.31949	14.760	-3.6948E-6	-0.071314	0.0
51.00000	16.00000	15.00000	-0.25340	14.760	-3.2351E-6	-0.066031	0.0
52.00000	16.00000	15.00000	-0.19856	14.760	-2.8428E-6	-0.061262	0.0
53.00000	16.00000	15.00000	-0.15303	14.760	-2.5066E-6	-0.056943	0.0
54.00000	16.00000	15.00000	-0.11523	14.760	-2.2174E-6	-0.053024	0.0
55.00000	16.00000	15.00000	-0.083853	14.760	-1.9676E-6	-0.049453	0.0
-25.00000	17.00000	15.00000	-0.034690	14.760	-7.5537E-6	-0.10758	0.0
-24.00000	17.00000	15.00000	-0.053718	14.760	-8.8602E-6	-0.11785	0.0
-23.00000	17.00000	15.00000	-0.076460	14.760	-10.452E-6	-0.12950	0.0
-22.00000	17.00000	15.00000	-0.10361	14.760	-12.406E-6	-0.14275	0.0
-21.00000	17.00000	15.00000	-0.13600	14.760	-14.823E-6	-0.15790	0.0
-20.00000	17.00000	15.00000	-0.17464	14.760	-17.840E-6	-0.17531	0.0
-19.00000	17.00000	15.00000	-0.22071	14.760	-21.642E-6	-0.19542	0.0
-18.00000	17.00000	15.00000	-0.27568	14.760	-26.482E-6	-0.21879	0.0
-17.00000	17.00000	15.00000	-0.34131	14.760	-32.717E-6	-0.24614	0.0
-16.00000	17.00000	15.00000	-0.40972	14.760	-40.851E-6	-0.27832	0.0
-15.00000	17.00000	15.00000	-0.51355	14.760	-51.616E-6	-0.31660	0.0
-14.00000	17.00000	15.00000	-0.62599	14.760	-66.098E-6	-0.36243	0.0
-13.00000	17.00000	15.00000	-0.76100	14.760	-85.943E-6	-0.41787	1.1141E-6
-12.00000	17.00000	15.00000	-0.92351	14.760	-113.72E-6	-0.48572	1.2948E-6
-11.00000	17.00000	15.00000	-1.1197	14.760	-153.57E-6	-0.56982	1.5166E-6
-10.00000	17.00000	15.00000	-1.3572	14.760	-212.43E-6	-0.67567	1.8002E-6
-9.00000	17.00000	15.00000	-1.6461	14.760	-302.49E-6	-0.81130	2.1608E-6
-8.00000	17.00000	15.00000	-1.9990	14.760	-446.31E-6	-0.98888	2.6326E-6
-7.00000	17.00000	15.00000	-2.4327	14.760	-688.73E-6	-1.2277	3.2663E-6
-6.00000	17.00000	15.00000	-2.9698	14.760	-0.0011271	-1.5608	4.1470E-6
-5.00000	17.00000	15.00000	-3.6410	14.760	-0.0019987	-2.0450	5.4268E-6
-4.00000	17.00000	15.00000	-4.4911	14.760	-0.0039840	-2.7988	7.4074E-6
-3.00000	17.00000	15.00000	-5.5886	14.760	-0.0095666	-4.0940	10.775E-6
-2.00000	17.00000	15.00000	-7.0512	14.760	-0.032310	-6.7398	17.474E-6
-1.00000	17.00000	15.00000	-9.1198	14.760	-0.24695	-14.645	35.137E-6
0.00000	17.00000	15.00000	-12.552	14.760	-45.000	-106.36	-436.83E-6
1.00000	17.00000	15.00000	-15.983	14.760	-89.753	-198.07	-908.80E-6
2.							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
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Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
14.00000	17.00000	15.00000	-23.933	14.760	-89.998	-211.04	-878.12E-6
15.00000	17.00000	15.00000	-23.927	14.760	-89.998	-210.59	-879.29E-6
16.00000	17.00000	15.00000	-23.881	14.760	-89.996	-209.87	-881.19E-6
17.00000	17.00000	15.00000	-23.791	14.760	-89.990	-208.59	-884.50E-6
18.00000	17.00000	15.00000	-23.650	14.760	-89.967	-205.96	-891.16E-6
19.00000	17.00000	15.00000	-23.444	14.760	-89.753	-198.07	-908.80E-6
20.00000	17.00000	15.00000	-23.629	14.760	-45.000	-106.36	-436.83E-6
21.00000	17.00000	15.00000	-23.787	14.760	-0.24695	-14.645	35.137E-6
22.00000	17.00000	15.00000	-23.499	14.760	-0.032310	-6.7398	17.474E-6
23.00000	17.00000	15.00000	-23.218	14.760	-0.0095666	-4.0940	10.775E-6
24.00000	17.00000	15.00000	-22.924	14.760	-0.0039840	-2.7988	7.4074E-6
25.00000	17.00000	15.00000	-22.599	14.760	-0.0019987	-2.0450	5.4268E-6
26.00000	17.00000	15.00000	-22.229	14.760	-0.0011271	-1.5603	4.1470E-6
27.00000	17.00000	15.00000	-21.795	14.760	-688.73E-6	-1.2277	3.2663E-6
28.00000	17.00000	15.00000	-21.275	14.760	-446.31E-6	-0.98888	2.6326E-6
29.00000	17.00000	15.00000	-20.638	14.760	-302.49E-6	-0.61130	2.1608E-6
30.00000	17.00000	15.00000	-19.842	14.760	-212.43E-6	-0.67567	1.8002E-6
31.00000	17.00000	15.00000	-18.822	14.760	-153.57E-6	-0.56982	1.5186E-6
32.00000	17.00000	15.00000	-17.467	14.760	-113.72E-6	-0.48572	1.2948E-6
33.00000	17.00000	15.00000	-15.550	14.760	-85.943E-6	-0.41787	1.1141E-6
34.00000	17.00000	15.00000	-11.854	14.760	-66.098E-6	-0.36243	0.0
35.00000	17.00000	15.00000	-8.1614	14.760	-51.616E-6	-0.31660	0.0
36.00000	17.00000	15.00000	-6.2527	14.760	-40.851E-6	-0.27835	0.0
37.00000	17.00000	15.00000	-4.9116	14.760	-32.717E-6	-0.24614	0.0
38.00000	17.00000	15.00000	-3.9112	14.760	-26.482E-6	-0.21879	0.0
39.00000	17.00000	15.00000	-3.1417	14.760	-21.642E-6	-0.19542	0.0
40.00000	17.00000	15.00000	-2.5385	14.760	-17.840E-6	-0.17531	0.0
41.00000	17.00000	15.00000	-2.0595	14.760	-14.823E-6	-0.15790	0.0
42.00000	17.00000	15.00000	-1.6756	14.760	-12.406E-6	-0.14275	0.0
43.00000	17.00000	15.00000	-1.3654	14.760	-10.452E-6	-0.12950	0.0
44.00000	17.00000	15.00000	-1.1135	14.760	-8.8602E-6	-0.11780	0.0
45.00000	17.00000	15.00000	-0.90774	14.760	-7.5537E-6	-0.10758	0.0
46.00000	17.00000	15.00000	-0.73907	14.760	-6.4740E-6	-0.098477	0.0
47.00000	17.00000	15.00000	-0.60035	14.760	-5.5760E-6	-0.090382	0.0
48.00000	17.00000	15.00000	-0.48594	14.760	-4.8248E-6	-0.083158	0.0
49.00000	17.00000	15.00000	-0.39136	14.760	-4.1929E-6	-0.076696	0.0
50.00000	17.00000	15.00000	-0.31306	14.760	-3.6586E-6	-0.070880	0.0
51.00000	17.00000	15.00000	-0.24813	14.760	-3.2046E-6	-0.065647	0.0
52.00000	17.00000	15.00000	-0.19425	14.760	-2.8171E-6	-0.060920	0.0
53.00000	17.00000	15.00000	-0.14951	14.760	-2.4849E-6	-0.056639	0.0
54.00000	17.00000	15.00000	-0.10225	14.760	-2.1989E-6	-0.052755	0.0
55.00000	17.00000	15.00000	-0.081506	14.760	-1.9519E-6	-0.049216	0.0
-25.00000	18.00000	15.00000	-0.032925	14.760	-7.4369E-6	-0.10652	0.0
-24.00000	18.00000	15.00000	-0.051566	14.760	-8.7175E-6	-0.11664	0.0
-23.00000	18.00000	15.00000	-0.073843	14.760	-10.277E-6	-0.12810	0.0
-22.00000	18.00000	15.00000	-0.10043	14.760	-12.182E-6	-0.14113	0.0
-21.00000	18.00000	15.00000	-0.13214	14.760	-14.554E-6	-0.15601	0.0
-20.00000	18.00000	15.00000	-0.16995	14.760	-17.503E-6	-0.17311	0.0
-19.00000	18.00000	15.00000	-0.21503	14.760	-21.218E-6	-0.19285	0.0
-18.00000	18.00000	15.00000	-0.26879	14.760	-25.945E-6	-0.21577	0.0
-17.00000	18.00000	15.00000	-0.33295	14.760	-32.032E-6	-0.24256	0.0
-16.00000	18.00000	15.00000	-0.40959	14.760	-39.972E-6	-0.27411	0.0
-15.00000	18.00000	15.00000	-0.50127	14.760	-50.480E-6	-0.31155	0.0
-14.00000	18.00000	15.00000	-0.61110	14.760	-64.620E-6	-0.35638	0.0
-13.00000	18.00000	15.00000	-0.74297	14.760	-84.004E-6	-0.41060	1.0947E-6
-12.00000	18.00000	15.00000	-0.90166	14.760	-111.161E-6	-0.47694	1.2714E-6
-11.00000	18.00000	15.00000	-1.0932	14.760	-150.16E-6	-0.55918	1.4903E-6
-10.00000	18.00000	15.00000	-1.3252	14.760	-207.87E-6	-0.66271	1.7657E-6
-9.00000	18.00000	15.00000	-1.6074	14.760	-296.35E-6	-0.79547	2.1187E-6
-8.00000	18.00000	15.00000	-1.9525	14.760	-438.01E-6	-0.96951	2.5810E-6
-7.00000	18.00000	15.00000	-2.3768	14.760	-677.49E-6	-1.20408	3.2031E-6
-6.00000	18.00000	15.00000	-2.9028	14.760	-0.001118	-1.5312	4.0695E-6
-5.00000	18.00000	15.00000	-3.5613	14.760	-0.0019781	-2.0094	5.3322E-6
-4.00000	18.00000	15.00000	-4.3968	14.760	-0.0039565	-2.7555	7.2922E-6
-3.00000	18.00000	15.00000	-5.4779	14.760	-0.0095303	-4.0417	10.636E-6
-2.00000	18.00000	15.00000	-6.9226	14.760	-0.032263	-6.6773	17.308E-6
-1.00000	18.00000	15.00000	-8.9722	14.760	-0.24689	-14.571	34.942E-6
0.00000	18.00000	15.00000	-12.385	14.760	-45.000	-106.27	-437.05E-6
1.00000	18.00000	15.00000	-15.796	14.760	-89.753	-197.97	-909.06E-6
2.00000	18.00000	15.00000	-17.840	14.760	-89.967	-205.86	-891.45E-6
3.00000	18.00000	15.00000	-19.275	14.760	-89.990	-208.48	-884.81E-6
4.00000	18.00000	15.00000	-20.343	14.760	-89.995	-209.74	-881.53E-6
5.00000	18.00000	15.00000	-21.160	14.760	-89.997	-210.46	-879.65E-6
6.00000	18.00000	15.00000	-21.796	14.760	-89.998	-210.90	-878.49E-6
7.00000	18.00000	15.00000	-22.293	14.760	-89.999	-211.17	-877.75E-6
8.00000	18.00000	15.00000	-22.683	14.760	-89.999	-211.35	-877.30E-6
9.00000	18.00000	15.00000	-22.987	14.760	-89.999	-211.44	-877.05E-6
10.00000	18.00000	15.00000	-23.219	14.760	-89.999	-211.47	-876.97E-6
11.00000	18.00000	15.00000	-23.392	14.760	-89.999	-211.44	-877.05E-6
12.00000	18.00000	15.00000	-23.514	14.760	-89.999	-211.35	-877.30E-6
13.00000	18.00000	15.00000	-23.590	14.760	-89.999	-211.17	-877.75E-6
14.00000	18.00000	15.00000	-23.625	14.760	-89.998	-210.90	-878.49E-6
15.00000	18.00000	15.00000	-23.619	14.760	-89.997	-210.46	-879.65E-6
16.00000	18.00000	15.00000	-23.574	14.760	-89.995	-209.74	-881.53E-6
17.00000	18.00000	15.00000	-23.486	14.760	-89.990	-208.48	-884.81E-6
18.00000	18.00000	15.00000	-23.347	14.760	-89.967	-205.86	-891.45E-6
19.00000	18.00000	15.00000	-23.144	14.760	-89.753	-197.97	-909.06E-6
20.00000	18.00000	15.00000	-23.332	14.760	-45.000	-106.27	-437.05E-6
21.00000	18.00000	15.00000	-23.495	14.760	-0.24689	-14.571	34.942E-6
22.00000	18.00000	15.00000	-23.211	14.760	-0.032263	-6.6773	17.308E-6
23.00000	18.00000	15.00000	-22.936	14.760	-0.0095303	-4.0417	10.636E-6
24.00000	18.00000	15.00000	-22.648	14.760	-0.0039565	-2.7555	7.2922E-6
25.00000	18.00000	15.00000	-22.330	14.760	-0.0019781	-2.0094	5.3322E-6
26.00000	18.00000	15.00000	-21.968	14.760	-0.001118	-1.5312	4.0695E-6
27.00000	18.00000	15.00000	-21.544	14.760	-677.49E-6	-1.2040	3.2031E-6
28.00000	18.00000	15.00000	-21.034	14.760	-438.01E-6	-0.96951	2.5810E-6
29.00000	18.00000	15.00000	-20.410	14.760	-296.35E-6	-0.79547	2.1187E-6
30.00000	18.00000	15.00000	-19.628	14.760	-207.87E-6	-0.66271	1.7657E-6
31.00000	18.00000	15.00000	-18.622	14.760	-150.16E-6	-0.55918	1.4903E-6
32.00000	18.00000	15.00000	-17.284	14.760	-111.16E-6	-0.47694	1.2714E-6
33.00000	18.00000	15.00000	-15.384	14.760	-84.004E-6	-0.41060	1.0947E-6
34.00000	18.00000	15.00000	-11.707	14.760	-64.620E-6	-0.35638	0.0
35.00000	18.00000	15.00000	-8.0314	14.760	-50.480E-6	-0.31155	0.0
36.00000	18.00000	15.00000	-6.1399	14.760	-39.972E-6	-0.27411	0.0
37.00000	18.00000	15.00000	-4.8150	14.760	-32.032E-6	-0.24256	0.0
38.00000	18.00000	15.00000	-3.8292	14.760	-25.945E-6	-0.21577	0.0
39.00000	18.00000	15.00000	-3.0727	14.760	-21.218E-6	-0.19285	0.0
40.00000	18.00000	15.00000	-2.4809	14.760	-17.503E-6	-0.17311	0.0
41.00000	18.00000	15.00000	-2.0116	14.760	-14.554E-6	-0.15601	0.0
42.00000	18.00000	15.00000	-1.6359	14.760	-12.189E-6	-0.14113	0.0
43.00000	18.00000	15.00000	-1.3328	14.760	-10.277E-6	-0.12810	0.0
44.00000	18.00000	15.00000	-1.0866	14.760	-8.7175E-6	-0.11664	0.0
45.00000	18.00000	15.00000	-0.88563	14.760	-7.4369E-6	-0.10652	0.0
46.00000	18.00000	15.00000	-0.72094	14.760	-6.3780E-6	-0.097556	0.0
47.00000	18.00000	15.00000	-0.58548	14.760	-5.4967E-6	-0.089575	0.0
48.00000	18.00000	15.00000	-0.47375	14.760	-4.7590E-6	-0.082449	0.0
49.00000	18.00000	15.00000	-0.38138	14.760	-4.1381E-6	-0.076065	0.0
50.00000	18.00000	15.00000	-0.30489	14.760	-3.6		

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
-18.00000	19.00000	15.00000	-0.26052	14.760	-25.297E-6	-0.21213	0.0
-17.00000	19.00000	15.00000	-0.32291	14.760	-31.204E-6	-0.23826	0.0
-16.00000	19.00000	15.00000	-0.39742	14.760	-38.905E-6	-0.26900	0.0
-15.00000	19.00000	15.00000	-0.48649	14.760	-49.096E-6	-0.30545	0.0
-14.00000	19.00000	15.00000	-0.59317	14.760	-62.808E-6	-0.34907	0.0
-13.00000	19.00000	15.00000	-0.72120	14.760	-81.612E-6	-0.40179	1.0712E-6
-12.00000	19.00000	15.00000	-0.87525	14.760	-107.97E-6	-0.46627	1.2429E-6
-11.00000	19.00000	15.00000	-1.0612	14.760	-145.88E-6	-0.54618	1.4557E-6
-10.00000	19.00000	15.00000	-1.2863	14.760	-202.07E-6	-0.64681	1.7234E-6
-9.00000	19.00000	15.00000	-1.5603	14.760	-288.40E-6	-0.77593	2.0667E-6
-8.00000	19.00000	15.00000	-1.8953	14.760	-427.05E-6	-0.94538	2.5168E-6
-7.00000	19.00000	15.00000	-2.3078	14.760	-662.27E-6	-1.1741	3.1236E-6
-6.00000	19.00000	15.00000	-2.8196	14.760	-0.0010906	-1.4940	3.9708E-6
-5.00000	19.00000	15.00000	-3.4615	14.760	-0.0019485	-1.9633	5.2096E-6
-4.00000	19.00000	15.00000	-4.2777	14.760	-0.0039154	-2.6984	7.1405E-6
-3.00000	19.00000	15.00000	-5.3370	14.760	-0.0094739	-3.9715	10.450E-6
-2.00000	19.00000	15.00000	-6.7575	14.760	-0.032187	-6.5918	17.081E-6
-1.00000	19.00000	15.00000	-8.7811	14.760	-0.24679	-14.469	34.670E-6
0.00000	19.00000	15.00000	-12.167	14.760	-45.000	-106.15	-437.37E-6
1.00000	19.00000	15.00000	-15.551	14.760	-89.752	-197.83	-909.42E-6
2.00000	19.00000	15.00000	-17.569	14.760	-89.967	-205.70	-891.86E-6
3.00000	19.00000	15.00000	-18.980	14.760	-89.990	-208.31	-885.26E-6
4.00000	19.00000	15.00000	-20.026	14.760	-89.995	-209.56	-882.01E-6
5.00000	19.00000	15.00000	-20.825	14.760	-89.997	-210.27	-880.16E-6
6.00000	19.00000	15.00000	-21.445	14.760	-89.998	-210.70	-879.02E-6
7.00000	19.00000	15.00000	-21.929	14.760	-89.998	-210.97	-878.30E-6
8.00000	19.00000	15.00000	-22.308	14.760	-89.999	-211.14	-877.85E-6
9.00000	19.00000	15.00000	-22.602	14.760	-89.999	-211.23	-877.61E-6
10.00000	19.00000	15.00000	-22.828	14.760	-89.999	-211.26	-877.53E-6
11.00000	19.00000	15.00000	-22.996	14.760	-89.999	-211.23	-877.61E-6
12.00000	19.00000	15.00000	-23.114	14.760	-89.999	-211.14	-877.85E-6
13.00000	19.00000	15.00000	-23.188	14.760	-89.998	-210.97	-878.30E-6
14.00000	19.00000	15.00000	-23.221	14.760	-89.998	-210.70	-879.02E-6
15.00000	19.00000	15.00000	-23.216	14.760	-89.997	-210.27	-880.16E-6
16.00000	19.00000	15.00000	-23.171	14.760	-89.995	-209.56	-882.01E-6
17.00000	19.00000	15.00000	-23.085	14.760	-89.990	-208.31	-885.26E-6
18.00000	19.00000	15.00000	-22.949	14.760	-89.967	-205.70	-891.86E-6
19.00000	19.00000	15.00000	-22.749	14.760	-89.752	-197.83	-909.42E-6
20.00000	19.00000	15.00000	-22.942	14.760	-45.000	-106.15	-437.37E-6
21.00000	19.00000	15.00000	-23.110	14.760	-0.24679	-14.469	34.670E-6
22.00000	19.00000	15.00000	-22.833	14.760	-0.032187	-6.5918	17.081E-6
23.00000	19.00000	15.00000	-22.564	14.760	-0.0094739	-3.9715	10.450E-6
24.00000	19.00000	15.00000	-22.284	14.760	-0.0039154	-2.6984	7.1405E-6
25.00000	19.00000	15.00000	-21.976	14.760	-0.0019485	-1.9633	5.2096E-6
26.00000	19.00000	15.00000	-21.624	14.760	-0.0010906	-1.4940	3.9708E-6
27.00000	19.00000	15.00000	-21.211	14.760	-662.27E-6	-1.1741	3.1236E-6
28.00000	19.00000	15.00000	-20.716	14.760	-427.05E-6	-0.94538	2.5168E-6
29.00000	19.00000	15.00000	-20.107	14.760	-288.40E-6	-0.77593	2.0667E-6
30.00000	19.00000	15.00000	-19.343	14.760	-202.07E-6	-0.64681	1.7234E-6
31.00000	19.00000	15.00000	-18.358	14.760	-145.88E-6	-0.54618	1.4557E-6
32.00000	19.00000	15.00000	-17.042	14.760	-107.97E-6	-0.46627	1.2429E-6
33.00000	19.00000	15.00000	-15.166	14.760	-81.612E-6	-0.40179	1.0712E-6
34.00000	19.00000	15.00000	-11.513	14.760	-62.808E-6	-0.34907	0.0
35.00000	19.00000	15.00000	-7.8626	14.760	-49.096E-6	-0.30545	0.0
36.00000	19.00000	15.00000	-5.9946	14.760	-38.905E-6	-0.26900	0.0
37.00000	19.00000	15.00000	-4.6915	14.760	-31.204E-6	-0.23826	0.0
38.00000	19.00000	15.00000	-3.7254	14.760	-25.297E-6	-0.21213	0.0
39.00000	19.00000	15.00000	-2.9862	14.760	-20.707E-6	-0.18975	0.0
40.00000	19.00000	15.00000	-2.4091	14.760	-17.098E-6	-0.17047	0.0
41.00000	19.00000	15.00000	-1.9525	14.760	-14.230E-6	-0.15375	0.0
42.00000	19.00000	15.00000	-1.5873	14.760	-11.929E-6	-0.13918	0.0
43.00000	19.00000	15.00000	-1.2928	14.760	-10.066E-6	-0.12641	0.0
44.00000	19.00000	15.00000	-1.0538	14.760	-8.5460E-6	-0.11518	0.0
45.00000	19.00000	15.00000	-0.85881	14.760	-7.2967E-6	-0.10525	0.0
46.00000	19.00000	15.00000	-0.69899	14.760	-6.2627E-6	-0.096445	0.0
47.00000	19.00000	15.00000	-0.56752	14.760	-5.4014E-6	-0.086002	0.0
48.00000	19.00000	15.00000	-0.45906	14.760	-4.6799E-6	-0.081593	0.0
49.00000	19.00000	15.00000	-0.36937	14.760	-4.0721E-6	-0.075310	0.0
50.00000	19.00000	15.00000	-0.29507	14.760	-3.5574E-6	-0.069661	0.0
51.00000	19.00000	15.00000	-0.23342	14.760	-3.1195E-6	-0.064566	0.0
52.00000	19.00000	15.00000	-0.18222	14.760	-2.7452E-6	-0.059960	0.0
53.00000	19.00000	15.00000	-0.13969	14.760	-2.4240E-6	-0.055783	0.0
54.00000	19.00000	15.00000	-0.10434	14.760	-2.1471E-6	-0.051988	0.0
55.00000	19.00000	15.00000	-0.074971	14.760	-1.9076E-6	-0.048531	0.0
-25.00000	20.00000	15.00000	-0.028366	14.760	-7.1343E-6	-0.10377	0.0
-24.00000	20.00000	15.00000	-0.046010	14.760	-8.3476E-6	-0.11348	0.0
-23.00000	20.00000	15.00000	-0.067081	14.760	-9.8219E-6	-0.12446	0.0
-22.00000	20.00000	15.00000	-0.092212	14.760	-11.627E-6	-0.13691	0.0
-21.00000	20.00000	15.00000	-0.12216	14.760	-13.854E-6	-0.15112	0.0
-20.00000	20.00000	15.00000	-0.15784	14.760	-16.628E-6	-0.16740	0.0
-19.00000	20.00000	15.00000	-0.20033	14.760	-20.114E-6	-0.18616	0.0
-18.00000	20.00000	15.00000	-0.25095	14.760	-24.543E-6	-0.20790	0.0
-17.00000	20.00000	15.00000	-0.31130	14.760	-30.238E-6	-0.23226	0.0
-16.00000	20.00000	15.00000	-0.38332	14.760	-37.658E-6	-0.26306	0.0
-15.00000	20.00000	15.00000	-0.46937	14.760	-47.470E-6	-0.29836	0.0
-14.00000	20.00000	15.00000	-0.57237	14.760	-60.668E-6	-0.34055	0.0
-13.00000	20.00000	15.00000	-0.69590	14.760	-78.767E-6	-0.39150	1.0438E-6
-12.00000	20.00000	15.00000	-0.84447	14.760	-104.15E-6	-0.45376	1.2096E-6
-11.00000	20.00000	15.00000	-1.0237	14.760	-140.68E-6	-0.53089	1.4149E-6
-10.00000	20.00000	15.00000	-1.2407	14.760	-194.90E-6	-0.62799	1.6732E-6
-9.00000	20.00000	15.00000	-1.5047	14.760	-278.41E-6	-0.75260	2.0045E-6
-8.00000	20.00000	15.00000	-1.8277	14.760	-412.94E-6	-0.91628	2.4393E-6
-7.00000	20.00000	15.00000	-2.2255	14.760	-642.09E-6	-1.1376	3.0264E-6
-6.00000	20.00000	15.00000	-2.7197	14.760	-0.0010615	-1.4480	3.8483E-6
-5.00000	20.00000	15.00000	-3.3405	14.760	-0.0019061	-1.9050	5.0547E-6
-4.00000	20.00000	15.00000	-4.1319	14.760	-0.0038536	-2.6246	6.9445E-6
-3.00000	20.00000	15.00000	-5.1624	14.760	-0.0093849	-3.8784	10



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	31.00000	20.00000	15.00000	-18.013	14.760	-140.68E-6	-0.53089	1.4149E-6
	32.00000	20.00000	15.00000	-16.727	14.760	-104.15E-6	-0.45376	1.2096E-6
	33.00000	20.00000	15.00000	-14.884	14.760	-78.767E-6	-0.39150	1.0438E-6
	34.00000	20.00000	15.00000	-11.264	14.760	-60.668E-6	-0.34055	0.0
	35.00000	20.00000	15.00000	-7.6476	14.760	-47.470E-6	-0.29836	0.0
	36.00000	20.00000	15.00000	-5.8118	14.760	-37.658E-6	-0.26306	0.0
	37.00000	20.00000	15.00000	-4.5381	14.760	-30.238E-6	-0.23326	0.0
	38.00000	20.00000	15.00000	-3.5980	14.760	-24.543E-6	-0.20790	0.0
	39.00000	20.00000	15.00000	-2.8810	14.760	-20.114E-6	-0.18616	0.0
	40.00000	20.00000	15.00000	-2.3228	14.760	-16.628E-6	-0.16740	0.0
	41.00000	20.00000	15.00000	-1.8818	14.760	-13.854E-6	-0.15112	0.0
	42.00000	20.00000	15.00000	-1.5295	14.760	-11.627E-6	-0.13691	0.0
	43.00000	20.00000	15.00000	-1.2457	14.760	-9.8219E-6	-0.12446	0.0
	44.00000	20.00000	15.00000	-1.0154	14.760	-8.3476E-6	-0.11348	0.0
	45.00000	20.00000	15.00000	-0.82745	14.760	-7.1343E-6	-0.10377	0.0
	46.00000	20.00000	15.00000	-0.67340	14.760	-6.1292E-6	-0.095154	0.0
	47.00000	20.00000	15.00000	-0.54663	14.760	-5.2911E-6	-0.087470	0.0
	48.00000	20.00000	15.00000	-0.44201	14.760	-4.5883E-6	-0.080598	0.0
	49.00000	20.00000	15.00000	-0.35545	14.760	-3.9956E-6	-0.074433	0.0
	50.00000	20.00000	15.00000	-0.28369	14.760	-3.4933E-6	-0.068885	0.0
	51.00000	20.00000	15.00000	-0.22413	14.760	-3.0656E-6	-0.063878	0.0
	52.00000	20.00000	15.00000	-0.17464	14.760	-2.6997E-6	-0.059347	0.0
	53.00000	20.00000	15.00000	-0.13350	14.760	-2.3853E-6	-0.055237	0.0
	54.00000	20.00000	15.00000	-0.099290	14.760	-2.1142E-6	-0.051500	0.0
	55.00000	20.00000	15.00000	-0.070859	14.760	-1.8795E-6	-0.048094	0.0
	-25.00000	21.00000	15.00000	-0.025625	14.760	-6.9516E-6	-0.101760	0.0
	-24.00000	21.00000	15.00000	-0.042669	14.760	-8.1242E-6	-0.11156	0.0
	-23.00000	21.00000	15.00000	-0.063014	14.760	-9.5474E-6	-0.12225	0.0
	-22.00000	21.00000	15.00000	-0.087269	14.760	-11.287E-6	-0.13436	0.0
	-21.00000	21.00000	15.00000	-0.11616	14.760	-13.432E-6	-0.14815	0.0
	-20.00000	21.00000	15.00000	-0.150504	14.760	-16.098E-6	-0.16399	0.0
	-19.00000	21.00000	15.00000	-0.19147	14.760	-19.445E-6	-0.18211	0.0
	-18.00000	21.00000	15.00000	-0.24020	14.760	-23.691E-6	-0.20313	0.0
	-17.00000	21.00000	15.00000	-0.29825	14.760	-29.145E-6	-0.22763	0.0
	-16.00000	21.00000	15.00000	-0.36746	14.760	-36.241E-6	-0.25636	0.0
	-15.00000	21.00000	15.00000	-0.45009	14.760	-45.615E-6	-0.29035	0.0
	-14.00000	21.00000	15.00000	-0.54890	14.760	-58.213E-6	-0.33091	0.0
	-13.00000	21.00000	15.00000	-0.66732	14.760	-75.478E-6	-0.37982	1.0127E-6
	-12.00000	21.00000	15.00000	-0.80962	14.760	-99.682E-6	-0.43952	1.1717E-6
	-11.00000	21.00000	15.00000	-0.98115	14.760	-134.53E-6	-0.51339	1.3683E-6
	-10.00000	21.00000	15.00000	-1.1887	14.760	-186.30E-6	-0.60637	1.6155E-6
	-9.00000	21.00000	15.00000	-1.4411	14.760	-266.17E-6	-0.72551	1.9324E-6
	-8.00000	21.00000	15.00000	-1.7498	14.760	-395.18E-6	-0.88212	2.3484E-6
	-7.00000	21.00000	15.00000	-2.1301	14.760	-615.83E-6	-1.0941	2.9107E-6
	-6.00000	21.00000	15.00000	-2.6028	14.760	-0.0010219	-1.3921	3.6998E-6
	-5.00000	21.00000	15.00000	-3.11973	14.760	-0.0018455	-1.9326	4.8623E-6
	-4.00000	21.00000	15.00000	-3.9571	14.760	-0.0037598	-2.5302	6.6940E-6
	-3.00000	21.00000	15.00000	-4.9501	14.760	-0.0092397	-3.7553	9.8764E-6
	-2.00000	21.00000	15.00000	-6.2948	14.760	-0.031841	-6.3160	16.350E-6
	-1.00000	21.00000	15.00000	-8.2347	14.760	-0.24630	-14.123	33.755E-6
	0.00000	21.00000	15.00000	-11.533	14.760	-44.999	-105.73	438.49E-6
	1.00000	21.00000	15.00000	-14.829	14.760	-89.752	-197.33	910.74E-6
	2.00000	21.00000	15.00000	-16.764	14.760	-89.966	-205.13	893.36E-6
	3.00000	21.00000	15.00000	-18.100	14.760	-89.989	-207.68	886.92E-6
	4.00000	21.00000	15.00000	-19.080	14.760	-89.994	-208.89	883.79E-6
	5.00000	21.00000	15.00000	-19.823	14.760	-89.996	-209.56	882.03E-6
	6.00000	21.00000	15.00000	-20.397	14.760	-89.997	-209.96	880.96E-6
	7.00000	21.00000	15.00000	-20.844	14.760	-89.997	-210.22	880.29E-6
	8.00000	21.00000	15.00000	-21.193	14.760	-89.997	-210.37	879.87E-6
	9.00000	21.00000	15.00000	-21.464	14.760	-89.997	-210.46	879.65E-6
	10.00000	21.00000	15.00000	-21.672	14.760	-89.997	-210.48	879.58E-6
	11.00000	21.00000	15.00000	-21.826	14.760	-89.997	-210.46	879.65E-6
	12.00000	21.00000	15.00000	-21.935	14.760	-89.997	-210.37	879.87E-6
	13.00000	21.00000	15.00000	-22.003	14.760	-89.997	-210.22	880.29E-6
	14.00000	21.00000	15.00000	-22.033	14.760	-89.997	-209.96	880.96E-6
	15.00000	21.00000	15.00000	-22.028	14.760	-89.996	-209.56	882.03E-6
	16.00000	21.00000	15.00000	-21.987	14.760	-89.994	-208.89	883.79E-6
	17.00000	21.00000	15.00000	-21.906	14.760	-89.989	-207.68	886.92E-6
	18.00000	21.00000	15.00000	-21.778	14.760	-89.966	-205.13	893.36E-6
	19.00000	21.00000	15.00000	-21.589	14.760	-89.752	-197.33	910.74E-6
	20.00000	21.00000	15.00000	-21.295	14.760	-44.999	-105.73	438.49E-6
	21.00000	21.00000	15.00000	-21.978	14.760	-0.24630	-14.123	33.755E-6
	22.00000	21.00000	15.00000	-21.717	14.760	-0.031841	-6.3160	16.350E-6
	23.00000	21.00000	15.00000	-21.468	14.760	-0.0092397	-3.7553	9.8764E-6
	24.00000	21.00000	15.00000	-21.209	14.760	-0.0037598	-2.5302	6.6940E-6
	25.00000	21.00000	15.00000	-20.924	14.760	-0.0018455	-1.9326	4.8623E-6
	26.00000	21.00000	15.00000	-20.600	14.760	-0.0010219	-1.3921	3.6998E-6
	27.00000	21.00000	15.00000	-20.220	14.760	-615.83E-6	-1.0941	2.9107E-6
	28.00000	21.00000	15.00000	-19.762	14.760	-395.18E-6	-0.88212	2.3484E-6
	29.00000	21.00000	15.00000	-19.199	14.760	-266.17E-6	-0.72551	1.9324E-6
	30.00000	21.00000	15.00000	-18.487	14.760	-186.30E-6	-0.60637	1.6155E-6
	31.00000	21.00000	15.00000	-17.564	14.760	-134.53E-6	-0.51339	1.3683E-6
	32.00000	21.00000	15.00000	-16.318	14.760	-99.682E-6	-0.43952	1.1717E-6
	33.00000	21.00000	15.00000	-14.519	14.760	-75.478E-6	-0.37982	1.0127E-6
	34.00000	21.00000	15.00000	-10.947	14.760	-58.213E-6	-0.33091	0.0
	35.00000	21.00000	15.00000	-7.31677	14.760	-45.615E-6	-0.29035	0.0
	36.00000	21.00000	15.00000	-5.5850	14.760	-36.241E-6	-0.25636	0.0
	37.00000	21.00000	15.00000	-4.3508	14.760	-29.145E-6	-0.22763	0.0
	38.00000	21.00000	15.00000	-3.4447	14.760	-23.691E-6	-0.20313	0.0
	39.00000	21.00000	15.00000	-2.7562	14.760	-19.445E-6	-0.18211	0.0
	40.00000	21.00000	15.00000	-2.2215	14.760	-16.098E-6	-0.16399	0.0
	41.00000	21.00000	15.00000	-1.7997	14.760	-13.432E-6	-0.14815	0.0
	42.00000	21.00000	15.00000	-1.4629	14.760	-11.287E-6	-0.13436	0.0
	43.00000	21.00000	15.00000	-1.1917	14.760	-9.5474E-6	-0.12225	0.0
	44.00000	21.00000	15.00000	-0.97152	14.760	-8.1242E-6	-0.11156	0.0
	45.00000	21.00000	15.00000	-0.79181	14.760	-6.9516E-6	-0.101760	0.0
	46.00000	21.00000	15.00000	-0.64440	14.760	-5.9788E-6	-0.093693	0.0
	47.00000	21.00000	15.00000	-0.52303	14.760	-5.1668E-6	-0.086189	0.0
	48.00000	21.00000	15.00000	-0.42278	14.760	-4.4850E-6	-0.079471	0.0
	49.00000	21.00000	15.00000	-0.33977	14.760	-3.9094E-6	-0.073438	0.0
	50.00000	21.00000	15.00000	-0.27090	14.760	-3.4210E-6	-0.068000	0.0
	51.00000	21.00000	15.00000	-0.21369	14.760	-3.0047E-6	-0.063096	0.0
	52.00000	21.00000	15.00000	-0.16612	14.760	-2.6482E-6	-0.058652	0.0
	53.00000	21.00000	15.00000	-0.12655	14.760	-2.3417E-6	-0.054617	0.0
	54.00000	21.00000	15.00000	-0.093626	14.760	-2.0770E-6	-0.050945	0.0
	55.00000	21.00000	15.00000	-0.066246	14.760	-1.8477E-6	-0.047597	0.0
	-25.00000	22.00000	15.00000	-0.022617	14.760	-6.7504E-6	-0.10025	0.0
	-24.00000	22.00000	15.00000	-0.039002	14.760	-7.8784E-6	-0.10944	0.0
	-23.00000	22.00000	15.00000	-0.058551	14.760	-9.2452E-6	-0.11980	0.0
	-22.00000	22.00000	15.00000	-0.081841	14.760	-10.914E-6	-0.13154	0.0
	-21.00000	22.00000	15.00000	-0.109856	14.760	-12.966E-6	-0.14486	0.0
	-20.00000	22.00000	15.00000	-0.14254	14.760	-15.514E-6	-0.16012	0.0
	-19.00000	22.00000	15.00000	-0.18175	14.760	-18.707E-6	-0.17764	0.0
	-18.00000	22.00000	15.00000					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z [Level] [mOD]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
-1.00000	22.00000	15.00000	-7.8549	14.760	-0.24563	-13.822	32.963E-6
0.00000	22.00000	15.00000	-11.080	14.760	-44.998	-105.34	-439.51E-6
1.00000	22.00000	15.00000	-14.304	14.760	-89.750	-196.86	-911.99E-6
2.00000	22.00000	15.00000	-16.172	14.760	-89.964	-204.58	-894.81E-6
3.00000	22.00000	15.00000	-17.450	14.760	-89.987	-207.07	-888.53E-6
4.00000	22.00000	15.00000	-18.382	14.760	-89.992	-208.23	-885.51E-6
5.00000	22.00000	15.00000	-19.086	14.760	-89.994	-208.87	-883.83E-6
6.00000	22.00000	15.00000	-19.629	14.760	-89.995	-209.26	-882.81E-6
7.00000	22.00000	15.00000	-20.051	14.760	-89.995	-209.50	-882.18E-6
8.00000	22.00000	15.00000	-20.381	14.760	-89.995	-209.64	-881.79E-6
9.00000	22.00000	15.00000	-20.637	14.760	-89.995	-209.72	-881.58E-6
10.00000	22.00000	15.00000	-20.834	14.760	-89.995	-209.75	-881.51E-6
11.00000	22.00000	15.00000	-20.980	14.760	-89.995	-209.72	-881.58E-6
12.00000	22.00000	15.00000	-21.083	14.760	-89.995	-209.64	-881.79E-6
13.00000	22.00000	15.00000	-21.147	14.760	-89.995	-209.50	-882.18E-6
14.00000	22.00000	15.00000	-21.176	14.760	-89.995	-209.26	-882.81E-6
15.00000	22.00000	15.00000	-21.172	14.760	-89.994	-208.87	-883.83E-6
16.00000	22.00000	15.00000	-21.132	14.760	-89.992	-208.23	-885.51E-6
17.00000	22.00000	15.00000	-21.056	14.760	-89.987	-207.07	-888.53E-6
18.00000	22.00000	15.00000	-20.934	14.760	-89.964	-204.58	-894.81E-6
19.00000	22.00000	15.00000	-20.752	14.760	-89.750	-196.86	-911.99E-6
20.00000	22.00000	15.00000	-20.967	14.760	-44.998	-105.34	-439.51E-6
21.00000	22.00000	15.00000	-21.160	14.760	-0.24563	-13.822	32.963E-6
22.00000	22.00000	15.00000	-20.911	14.760	-0.031425	-6.0924	15.760E-6
23.00000	22.00000	15.00000	-20.673	14.760	-0.0089940	-3.5916	9.4434E-6
24.00000	22.00000	15.00000	-20.428	14.760	-0.0061506	-2.1001	6.3712E-6
25.00000	22.00000	15.00000	-20.159	14.760	-0.0017593	-1.7439	4.6270E-6
26.00000	22.00000	15.00000	-19.852	14.760	-969.02E-6	-1.3256	3.5230E-6
27.00000	22.00000	15.00000	-19.492	14.760	-582.36E-6	-1.0434	2.7759E-6
28.00000	22.00000	15.00000	-19.060	14.760	-373.34E-6	-0.84290	2.2441E-6
29.00000	22.00000	15.00000	-18.526	14.760	-251.52E-6	-0.69477	1.8506E-6
30.00000	22.00000	15.00000	-17.852	14.760	-176.22E-6	-0.58192	1.5506E-6
31.00000	22.00000	15.00000	-16.974	14.760	-127.44E-6	-0.49383	1.3162E-6
32.00000	22.00000	15.00000	-15.782	14.760	-94.600E-6	-0.42367	1.1294E-6
33.00000	22.00000	15.00000	-14.045	14.760	-71.768E-6	-0.36687	0.0
34.00000	22.00000	15.00000	-12.540	14.760	-55.463E-6	-0.32024	0.0
35.00000	22.00000	15.00000	-7.0365	14.760	-43.549E-6	-0.28149	0.0
36.00000	22.00000	15.00000	-5.3064	14.760	-34.668E-6	-0.24896	0.0
37.00000	22.00000	15.00000	-4.1256	14.760	-27.935E-6	-0.22141	0.0
38.00000	22.00000	15.00000	-3.2638	14.760	-22.751E-6	-0.19787	0.0
39.00000	22.00000	15.00000	-2.6113	14.760	-18.707E-6	-0.17663	0.0
40.00000	22.00000	15.00000	-2.1053	14.760	-15.514E-6	-0.16012	0.0
41.00000	22.00000	15.00000	-1.7064	14.760	-12.966E-6	-0.14488	0.0
42.00000	22.00000	15.00000	-1.3879	14.760	-10.914E-6	-0.13154	0.0
43.00000	22.00000	15.00000	-1.1312	14.760	-9.2452E-6	-0.11980	0.0
44.00000	22.00000	15.00000	-0.92267	14.760	-7.8784E-6	-0.10944	0.0
45.00000	22.00000	15.00000	-0.75226	14.760	-6.7504E-6	-0.10025	0.0
46.00000	22.00000	15.00000	-0.61233	14.760	-5.8132E-6	-0.092075	0.0
47.00000	22.00000	15.00000	-0.49697	14.760	-5.0298E-6	-0.084768	0.0
48.00000	22.00000	15.00000	-0.40158	14.760	-4.3711E-6	-0.078220	0.0
49.00000	22.00000	15.00000	-0.32251	14.760	-3.8142E-6	-0.072323	0.0
50.00000	22.00000	15.00000	-0.25684	14.760	-3.3412E-6	-0.067026	0.0
51.00000	22.00000	15.00000	-0.20223	14.760	-2.9374E-6	-0.062227	0.0
52.00000	22.00000	15.00000	-0.15677	14.760	-2.5913E-6	-0.057878	0.0
53.00000	22.00000	15.00000	-0.11892	14.760	-2.2933E-6	-0.053926	0.0
54.00000	22.00000	15.00000	-0.087411	14.760	-2.0358E-6	-0.050327	0.0
55.00000	22.00000	15.00000	-0.061185	14.760	-1.8125E-6	-0.047042	0.0
-25.00000	23.00000	15.00000	-0.019376	14.760	-6.5327E-6	-0.098240	0.0
-24.00000	23.00000	15.00000	-0.035050	14.760	-7.6126E-6	-0.10713	0.0
-23.00000	23.00000	15.00000	-0.053740	14.760	-8.9188E-6	-0.11715	0.0
-22.00000	23.00000	15.00000	-0.075993	14.760	-10.5108E-6	-0.12844	0.0
-21.00000	23.00000	15.00000	-0.10246	14.760	-12.464E-6	-0.14132	0.0
-20.00000	23.00000	15.00000	-0.13391	14.760	-14.884E-6	-0.15598	0.0
-19.00000	23.00000	15.00000	-0.17128	14.760	-17.910E-6	-0.17279	0.0
-18.00000	23.00000	15.00000	-0.21567	14.760	-21.734E-6	-0.19218	0.0
-17.00000	23.00000	15.00000	-0.26844	14.760	-26.624E-6	-0.21466	0.0
-16.00000	23.00000	15.00000	-0.33121	14.760	-32.960E-6	-0.24094	0.0
-15.00000	23.00000	15.00000	-0.40596	14.760	-41.296E-6	-0.27189	0.0
-14.00000	23.00000	15.00000	-0.49511	14.760	-52.452E-6	-0.30865	0.0
-13.00000	23.00000	15.00000	-0.60166	14.760	-67.680E-6	-0.35279	0.0
-12.00000	23.00000	15.00000	-0.72922	14.760	-86.952E-6	-0.40639	1.0834E-6
-11.00000	23.00000	15.00000	-0.88274	14.760	-119.48E-6	-0.47242	1.2592E-6
-10.00000	23.00000	15.00000	-1.0678	14.760	-164.73E-6	-0.55508	1.4791E-6
-9.00000	23.00000	15.00000	-1.2922	14.760	-234.47E-6	-0.66068	1.7599E-6
-8.00000	23.00000	15.00000	-1.5659	14.760	-347.22E-6	-0.79892	2.1271E-6
-7.00000	23.00000	15.00000	-1.9021	14.760	-540.83E-6	-0.98560	2.6223E-6
-6.00000	23.00000	15.00000	-2.3193	14.760	-900.03E-6	-1.2480	3.3171E-6
-5.00000	23.00000	15.00000	-2.8436	14.760	-0.0016389	-1.6373	4.3444E-6
-4.00000	23.00000	15.00000	-3.5146	14.760	-0.0033936	-2.2598	5.9781E-6
-3.00000	23.00000	15.00000	-4.3960	14.760	-0.0085644	-3.3733	8.8675E-6
-2.00000	23.00000	15.00000	-5.6030	14.760	-0.030571	-5.7698	14.912E-6
-1.00000	23.00000	15.00000	-7.3796	14.760	-0.24398	-13.348	31.725E-6
0.00000	23.00000	15.00000	-10.497	14.760	-44.995	-104.68	-441.24E-6
1.00000	23.00000	15.00000	-13.613	14.760	-89.746	-196.00	-914.21E-6
2.00000	23.00000	15.00000	-15.385	14.760	-89.960	-203.57	-897.42E-6
3.00000	23.00000	15.00000	-16.584	14.760	-89.982	-205.96	-891.40E-6
4.00000	23.00000	15.00000	-17.455	14.760	-89.987	-207.05	-888.56E-6
5.00000	23.00000	15.00000	-18.110	14.760	-89.989	-207.65	-886.99E-6
6.00000	23.00000	15.00000	-18.616	14.760	-89.989	-208.01	-886.05E-6
7.00000	23.00000	15.00000	-19.009	14.760	-89.990	-208.23	-885.46E-6
8.00000	23.00000	15.00000	-19.317	14.760	-89.990	-208.37	-885.10E-6
9.00000	23.00000	15.00000	-19.557	14.760	-89.990	-208.44	-884.90E-6
10.00000	23.00000	15.00000	-19.741	14.760	-89.990	-208.47	-884.84E-6
11.00000	23.00000	15.00000	-19.878	14.760	-89.990	-208.44	-884.90E-6
12.00000	23.00000	15.00000	-19.974	14.760	-89.990	-208.37	-885.10E-6
13.00000	23.00000	15.00000	-20.035	14.760	-89.990	-208.23	-885.46E-6
14.00000	23.00000	15.00000	-20.063	14.760	-89.989	-208.01	-886.05E-6
15.00000	23.00000	15.00000	-20.058	14.760	-89.989	-207.65	-886.99E-6
16.00000	23.00000	15.00000	-20.022	14.760	-89.987	-207.05	-888.56E-6
17.00000	23.00000	15.00000	-19.950	14.760	-89.982	-205.96	-891.40E-6
18.00000	23.00000	15.00000	-19.836	14.760	-89.960	-203.57	-897.42E-6
19.00000	23.00000	15.00000	-19.664	14.760	-89.746	-196.00	-914.21E-6
20.00000	23.00000	15.00000	-19.891	14.760	-44.995	-104.68	-441.24E-6
21.00000	23.00000	15.00000	-20.097	14.760	-0.24398	-13.348	31.725E-6
22.00000	23.00000	15.00000	-19.861	14.760	-0.030571	-5.7698	14.912E-6
23.00000	23.00000	15.00000	-19.638	14.760	-0.0085644	-3.3733	8.8675E-6
24.00000	23.00000	15.00000	-19.408	14.760	-0.0033936	-2.2598	5.9781E-6
25.00000	23.00000	15.00000	-19.156	14.760	-0.0016389	-1.6373	4.3444E-6
26.00000	23.00000	15.00000	-18.869	14.760	-900.03E-6	-1.2480	3.3171E-6
27.00000	23.00000	15.00000	-18.533	14.760	-540.83E-6	-0.98560	2.6223E-6
28.00000	23.00000	15.00000	-18.130	14.760	-347.22E-6	-0.79892	2.1271E-6
29.00000	23.00000	15.00000	-17.633	14.760	-234.47E-6	-0.66068	1.7599E-6
30.00000	23.00000	15.00000	-17.005	14.760	-164.73E-6	-0.55508	1.4791E-6
31.00000	23.00000	15.00000	-16.185	14.760	-119.48E-6	-0.47242	1.2592E-6
32.00000	23.00000	15.00000	-15.066	14.760	-88.952E-6	-0.40639	1.0834E-6
33.00000	23.00000	15.00000	-13.418	14.760	-67.680E-6	-0.35279	0.0
34.00000	23.00000	15.00000	-10.012	14.760	-52.452E-6	-0.30865	0.0
35.00000	23.00000	15.00000	-6.6086	14.760	-41.296E-6	-0.27189	0.



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
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Name	Location		Displacement		Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	48.00000	23.00000	15.00000	-0.37868	14.760	-4.2476E-6	-0.076855	0.0
	49.00000	23.00000	15.00000	-0.30388	14.760	-3.7110E-6	-0.071127	0.0
	50.00000	23.00000	15.00000	-0.24167	14.760	-3.2545E-6	-0.065956	0.0
	51.00000	23.00000	15.00000	-0.18987	14.760	-2.8643E-6	-0.061277	0.0
	52.00000	23.00000	15.00000	-0.14670	14.760	-2.5294E-6	-0.057031	0.0
	53.00000	23.00000	15.00000	-0.11071	14.760	-2.2407E-6	-0.053170	0.0
	54.00000	23.00000	15.00000	-0.080721	14.760	-1.9910E-6	-0.049650	0.0
	55.00000	23.00000	15.00000	-0.055739	14.760	-1.7741E-6	-0.046434	0.0
	-25.00000	24.00000	15.00000	-0.015937	14.760	-6.3010E-6	-0.096078	0.0
	-24.00000	24.00000	15.00000	-0.030857	14.760	-7.3298E-6	-0.10466	0.0
	-23.00000	24.00000	15.00000	-0.048638	14.760	-8.5716E-6	-0.11430	0.0
	-22.00000	24.00000	15.00000	-0.069791	14.760	-10.081E-6	-0.12519	0.0
	-21.00000	24.00000	15.00000	-0.094924	14.760	-11.930E-6	-0.13752	0.0
	-20.00000	24.00000	15.00000	-0.12476	14.760	-14.214E-6	-0.15156	0.0
	-19.00000	24.00000	15.00000	-0.16017	14.760	-17.063E-6	-0.16762	0.0
	-18.00000	24.00000	15.00000	-0.20218	14.760	-20.652E-6	-0.18609	0.0
	-17.00000	24.00000	15.00000	-0.25204	14.760	-25.229E-6	-0.20748	0.0
	-16.00000	24.00000	15.00000	-0.31126	14.760	-31.140E-6	-0.23239	0.0
	-15.00000	24.00000	15.00000	-0.38166	14.760	-38.890E-6	-0.26165	0.0
	-14.00000	24.00000	15.00000	-0.46547	14.760	-49.224E-6	-0.29630	0.0
	-13.00000	24.00000	15.00000	-0.56542	14.760	-63.277E-6	-0.33775	0.0
	-12.00000	24.00000	15.00000	-0.68490	14.760	-82.827E-6	-0.38791	1.0342E-6
	-11.00000	24.00000	15.00000	-0.82815	14.760	-110.76E-6	-0.44945	1.1980E-6
	-10.00000	24.00000	15.00000	-1.0005	14.760	-151.99E-6	-0.52616	1.4021E-6
	-9.00000	24.00000	15.00000	-1.2089	14.760	-215.24E-6	-0.62369	1.6614E-6
	-8.00000	24.00000	15.00000	-1.4621	14.760	-317.06E-6	-0.75074	1.9990E-6
	-7.00000	24.00000	15.00000	-1.7723	14.760	-491.22E-6	-0.92141	2.4518E-6
	-6.00000	24.00000	15.00000	-2.1556	14.760	-813.53E-6	-1.1601	3.0837E-6
	-5.00000	24.00000	15.00000	-2.6356	14.760	-0.0014767	-1.5125	4.0139E-6
	-4.00000	24.00000	15.00000	-3.2476	14.760	-0.0030614	-2.0748	5.4895E-6
	-3.00000	24.00000	15.00000	-4.0494	14.760	-0.0078078	-3.0838	8.1070E-6
	-2.00000	24.00000	15.00000	-5.1483	14.760	-0.028655	-5.2903	13.663E-6
	-1.00000	24.00000	15.00000	-6.7815	14.760	-0.23892	-12.525	29.608E-6
	0.00000	24.00000	15.00000	-9.7259	14.760	-44.984	-103.33	-444.64E-6
	1.00000	24.00000	15.00000	-12.669	14.760	-89.729	-194.14	-918.89E-6
	2.00000	24.00000	15.00000	-14.429	14.760	-89.939	-201.37	-902.96E-6
	3.00000	24.00000	15.00000	-15.389	14.760	-89.960	-203.57	-897.44E-6
	4.00000	24.00000	15.00000	-16.180	14.760	-89.964	-204.56	-894.87E-6
	5.00000	24.00000	15.00000	-16.778	14.760	-89.966	-205.10	-893.45E-6
	6.00000	24.00000	15.00000	-17.240	14.760	-89.967	-205.42	-892.60E-6
	7.00000	24.00000	15.00000	-17.601	14.760	-89.967	-205.82	-892.07E-6
	8.00000	24.00000	15.00000	-17.884	14.760	-89.967	-205.74	-891.74E-6
	9.00000	24.00000	15.00000	-18.105	14.760	-89.967	-205.81	-891.56E-6
	10.00000	24.00000	15.00000	-18.275	14.760	-89.967	-205.83	-891.50E-6
	11.00000	24.00000	15.00000	-18.402	14.760	-89.967	-205.81	-891.56E-6
	12.00000	24.00000	15.00000	-18.492	14.760	-89.967	-205.74	-891.74E-6
	13.00000	24.00000	15.00000	-18.549	14.760	-89.967	-205.62	-892.07E-6
	14.00000	24.00000	15.00000	-18.575	14.760	-89.967	-205.42	-892.60E-6
	15.00000	24.00000	15.00000	-18.572	14.760	-89.966	-205.10	-893.45E-6
	16.00000	24.00000	15.00000	-18.539	14.760	-89.964	-204.56	-894.87E-6
	17.00000	24.00000	15.00000	-18.474	14.760	-89.960	-203.57	-897.44E-6
	18.00000	24.00000	15.00000	-18.369	14.760	-89.939	-201.37	-902.96E-6
	19.00000	24.00000	15.00000	-18.210	14.760	-89.729	-194.14	-918.89E-6
	20.00000	24.00000	15.00000	-18.454	14.760	-44.984	-103.33	-444.64E-6
	21.00000	24.00000	15.00000	-18.678	14.760	-0.23892	-12.525	29.608E-6
	22.00000	24.00000	15.00000	-18.460	14.760	-0.028655	-5.2903	13.663E-6
	23.00000	24.00000	15.00000	-18.254	14.760	-0.0078078	-3.0838	8.1070E-6
	24.00000	24.00000	15.00000	-18.041	14.760	-0.0030614	-2.0748	5.4895E-6
	25.00000	24.00000	15.00000	-17.809	14.760	-0.0014767	-1.5125	4.0139E-6
	26.00000	24.00000	15.00000	-17.544	14.760	-813.53E-6	-1.1601	3.0837E-6
	27.00000	24.00000	15.00000	-17.234	14.760	-491.22E-6	-0.92141	2.4518E-6
	28.00000	24.00000	15.00000	-16.863	14.760	-317.06E-6	-0.75074	1.9990E-6
	29.00000	24.00000	15.00000	-16.409	14.760	-215.24E-6	-0.62369	1.6614E-6
	30.00000	24.00000	15.00000	-15.836	14.760	-151.99E-6	-0.52616	1.4021E-6
	31.00000	24.00000	15.00000	-15.090	14.760	-110.76E-6	-0.44945	1.1980E-6
	32.00000	24.00000	15.00000	-14.071	14.760	-82.827E-6	-0.38791	1.0342E-6
	33.00000	24.00000	15.00000	-12.556	14.760	-63.277E-6	-0.33775	0.0
	34.00000	24.00000	15.00000	-9.3109	14.760	-49.224E-6	-0.29630	0.0
	35.00000	24.00000	15.00000	-6.0673	14.760	-38.890E-6	-0.26165	0.0
	36.00000	24.00000	15.00000	-4.5582	14.760	-31.140E-6	-0.23239	0.0
	37.00000	24.00000	15.00000	-3.5496	14.760	-25.229E-6	-0.20748	0.0
	38.00000	24.00000	15.00000	-2.8180	14.760	-20.652E-6	-0.18609	0.0
	39.00000	24.00000	15.00000	-2.2637	14.760	-17.063E-6	-0.16762	0.0
	40.00000	24.00000	15.00000	-1.8324	14.760	-14.214E-6	-0.15156	0.0
	41.00000	24.00000	15.00000	-1.4906	14.760	-11.930E-6	-0.13752	0.0
	42.00000	24.00000	15.00000	-1.2163	14.760	-10.081E-6	-0.12519	0.0
	43.00000	24.00000	15.00000	-0.99396	14.760	-8.5716E-6	-0.11430	0.0
	44.00000	24.00000	15.00000	-0.81249	14.760	-7.3298E-6	-0.10466	0.0
	45.00000	24.00000	15.00000	-0.66348	14.760	-6.3010E-6	-0.096078	0.0
	46.00000	24.00000	15.00000	-0.54058	14.760	-5.4429E-6	-0.088417	0.0
	47.00000	24.00000	15.00000	-0.43884	14.760	-4.7231E-6	-0.081554	0.0
	48.00000	24.00000	15.00000	-0.35439	14.760	-4.1157E-6	-0.075386	0.0
	49.00000	24.00000	15.00000	-0.28413	14.760	-3.6007E-6	-0.069827	0.0
	50.00000	24.00000	15.00000	-0.22560	14.760	-3.1618E-6	-0.064803	0.0
	51.00000	24.00000	15.00000	-0.17677	14.760	-2.7860E-6	-0.060251	0.0
	52.00000	24.00000	15.00000	-0.13603	14.760	-2.4631E-6	-0.056116	0.0
	53.00000	24.00000	15.00000	-0.10202	14.760	-2.1843E-6	-0.052352	0.0
	54.00000	24.00000	15.00000	-0.073635	14.760	-1.9428E-6	-0.048917	0.0
	55.00000	24.00000	15.00000	-0.049971	14.760	-1.7328E-6	-0.045776	0.0
	-25.00000	25.00000	15.00000	-0.012339	14.760	-6.0574E-6	-0.093786	0.0
	-24.00000	25.00000	15.00000	-0.026472	14.760	-7.0308E-6	-0.10202	0.0
	-23.00000	25.00000	15.00000	-0.043301	14.760	-8.2076E-6	-0.11129	0.0
	-22.00000	25.00000	15.00000	-0.063304	14.760	-9.6316E-6	-0.12172	0.0
	-21.00000	25.00000	15.00000	-0.087047	14.760	-11.371E-6	-0.13351	0.0
	-20.00000	25.00000	15.00000	-0.11520	14.760	-13.514E-6	-0.14689	0.0
	-19.00000	25.00000	15.00000	-0.14956	14.760	-16.117E-6	-0.16217	0.0
	-18.00000	25.00000	15.00000	-0.18809	14.760	-19.522E-6	-0.17970	0.0
	-17.00000	25.00000	15.00000	-0.23492	14.760	-23.770E-6	-0.19992	0.0
	-16.00000	25.00000	15.00000	-0.29043	14.760	-29.235E-6	-0.22341	0.0
	-15.00000	25.00000	15.00000	-0.35629	14.760	-36.369E-6	-0.25090	0.0
	-14.00000	25.00000	15.00000	-0.43485	14.760	-45.835E-6	-0.28339	0.0
	-13.00000	25.00000	15.00000	-0.52755	14.760	-58.639E-6	-0.32197	0.0
	-12.00000	25.00000	15.00000	-0.				

Total Heave

Job No.	Sheet No.	Rev.
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Made by	Date	Checked
MP		

Name	Location			Displacement	Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	16.00000	25.00000	15.00000	-16.444	14.760	-89.750	-196.83	-912.07E-6
	17.00000	25.00000	15.00000	-16.386	14.760	-89.746	-195.99	-914.25E-6
	18.00000	25.00000	15.00000	-16.293	14.760	-89.729	-194.14	-918.91E-6
	19.00000	25.00000	15.00000	-16.154	14.760	-89.535	-187.83	-932.65E-6
	20.00000	25.00000	15.00000	-16.424	14.760	-44.876	-99.360	-453.53E-6
	21.00000	25.00000	15.00000	-16.676	14.760	-0.21732	-10.887	25.581E-6
	22.00000	25.00000	15.00000	-16.482	14.760	-0.024255	-4.5769	11.829E-6
	23.00000	25.00000	15.00000	-16.296	14.760	-0.0065558	-2.7143	7.1406E-6
	24.00000	25.00000	15.00000	-16.103	14.760	-0.0026000	-1.8568	4.9150E-6
	25.00000	25.00000	15.00000	-15.890	14.760	-0.0012730	-1.3720	3.6419E-6
	26.00000	25.00000	15.00000	-15.649	14.760	-711.28E-6	-1.0636	2.8279E-6
	27.00000	25.00000	15.00000	-15.368	14.760	-434.81E-6	-0.85218	2.2679E-6
	28.00000	25.00000	15.00000	-15.033	14.760	-283.65E-6	-0.69933	1.8623E-6
	29.00000	25.00000	15.00000	-14.625	14.760	-194.32E-6	-0.58450	1.5572E-6
	30.00000	25.00000	15.00000	-14.116	14.760	-138.30E-6	-0.49565	1.3209E-6
	31.00000	25.00000	15.00000	-13.460	14.760	-101.48E-6	-0.42528	1.1336E-6
	32.00000	25.00000	15.00000	-12.575	14.760	-76.346E-6	-0.36850	0.0
	33.00000	25.00000	15.00000	-11.267	14.760	-58.639E-6	-0.32197	0.0
	34.00000	25.00000	15.00000	-8.3228	14.760	-45.835E-6	-0.28333	0.0
	35.00000	25.00000	15.00000	-5.3808	14.760	-36.369E-6	-0.25090	0.0
	36.00000	25.00000	15.00000	-4.0779	14.760	-29.235E-6	-0.22341	0.0
	37.00000	25.00000	15.00000	-3.2017	14.760	-23.703E-6	-0.19992	0.0
	38.00000	25.00000	15.00000	-2.5589	14.760	-19.522E-6	-0.17970	0.0
	39.00000	25.00000	15.00000	-2.0667	14.760	-16.177E-6	-0.16217	0.0
	40.00000	25.00000	15.00000	-1.6802	14.760	-13.514E-6	-0.14689	0.0
	41.00000	25.00000	15.00000	-1.3716	14.760	-11.371E-6	-0.1351	0.0
	42.00000	25.00000	15.00000	-1.1224	14.760	-9.6316E-6	-0.12172	0.0
	43.00000	25.00000	15.00000	-0.91934	14.760	-8.2076E-6	-0.11129	0.0
	44.00000	25.00000	15.00000	-0.75283	14.760	-7.0330E-6	-0.10204	0.0
	45.00000	25.00000	15.00000	-0.61555	14.760	-6.0574E-6	-0.093786	0.0
	46.00000	25.00000	15.00000	-0.50192	14.760	-5.2420E-6	-0.086400	0.0
	47.00000	25.00000	15.00000	-0.40757	14.760	-4.5563E-6	-0.079783	0.0
	48.00000	25.00000	15.00000	-0.32902	14.760	-3.9767E-6	-0.073823	0.0
	49.00000	25.00000	15.00000	-0.26352	14.760	-3.4842E-6	-0.068443	0.0
	50.00000	25.00000	15.00000	-0.20882	14.760	-3.0638E-6	-0.063574	0.0
	51.00000	25.00000	15.00000	-0.16111	14.760	-2.7032E-6	-0.059157	0.0
	52.00000	25.00000	15.00000	-0.12489	14.760	-2.3928E-6	-0.055139	0.0
	53.00000	25.00000	15.00000	-0.092938	14.760	-2.1245E-6	-0.051478	0.0
	54.00000	25.00000	15.00000	-0.066238	14.760	-1.8916E-6	-0.048133	0.0
	55.00000	25.00000	15.00000	-0.043949	14.760	-1.6889E-6	-0.045071	0.0
	-25.00000	26.00000	15.00000	-0.0086214	14.760	-5.8045E-6	-0.091381	0.0
	-24.00000	26.00000	15.00000	-0.021939	14.760	-6.7252E-6	-0.099290	0.0
	-23.00000	26.00000	15.00000	-0.037787	14.760	-7.8306E-6	-0.10815	0.0
	-22.00000	26.00000	15.00000	-0.056605	14.760	-9.1668E-6	-0.11810	0.0
	-21.00000	26.00000	15.00000	-0.078915	14.760	-10.794E-6	-0.12932	0.0
	-20.00000	26.00000	15.00000	-0.105533	14.760	-12.791E-6	-0.14203	0.0
	-19.00000	26.00000	15.00000	-0.13659	14.760	-15.264E-6	-0.15650	0.0
	-18.00000	26.00000	15.00000	-0.17356	14.760	-18.358E-6	-0.17305	0.0
	-17.00000	26.00000	15.00000	-0.21727	14.760	-22.269E-6	-0.19208	0.0
	-16.00000	26.00000	15.00000	-0.26898	14.760	-27.276E-6	-0.21411	0.0
	-15.00000	26.00000	15.00000	-0.33017	14.760	-33.776E-6	-0.23977	0.0
	-14.00000	26.00000	15.00000	-0.40265	14.760	-42.349E-6	-0.26992	0.0
	-13.00000	26.00000	15.00000	-0.48861	14.760	-53.864E-6	-0.30566	0.0
	-12.00000	26.00000	15.00000	-0.59072	14.760	-69.662E-6	-0.34845	0.0
	-11.00000	26.00000	15.00000	-0.71229	14.760	-91.885E-6	-0.40032	1.0672E-6
	-10.00000	26.00000	15.00000	-0.85739	14.760	-124.09E-6	-0.46412	1.2369E-6
	-9.00000	26.00000	15.00000	-1.0312	14.760	-172.45E-6	-0.54394	1.4493E-6
	-8.00000	26.00000	15.00000	-1.2402	14.760	-248.39E-6	-0.64599	1.7204E-6
	-7.00000	26.00000	15.00000	-1.4929	14.760	-374.45E-6	-0.77999	2.0761E-6
	-6.00000	26.00000	15.00000	-1.8006	14.760	-599.41E-6	-0.96218	2.5589E-6
	-5.00000	26.00000	15.00000	-2.1786	14.760	-900.04E-6	-1.2218	3.2448E-6
	-4.00000	26.00000	15.00000	-2.6490	14.760	-0.0020427	-1.6173	4.2846E-6
	-3.00000	26.00000	15.00000	-3.2458	14.760	-0.0048431	-2.2847	6.0213E-6
	-2.00000	26.00000	15.00000	-4.0273	14.760	-0.016225	-3.6282	9.4254E-6
	-1.00000	26.00000	15.00000	-5.1131	14.760	-0.12356	-7.6018	18.313E-6
	0.00000	26.00000	15.00000	-6.8814	14.760	-22.500	-53.479	-217.61E-6
	1.00000	26.00000	15.00000	-8.6485	14.760	-44.876	-99.355	-453.54E-6
	2.00000	26.00000	15.00000	-9.7303	14.760	-44.984	-103.32	-444.67E-6
	3.00000	26.00000	15.00000	-10.505	14.760	-44.995	-104.66	-441.29E-6
	4.00000	26.00000	15.00000	-11.092	14.760	-44.998	-105.31	-439.60E-6
	5.00000	26.00000	15.00000	-11.550	14.760	-44.999	-105.68	-438.61E-6
	6.00000	26.00000	15.00000	-11.912	14.760	-44.999	-105.92	-437.99E-6
	7.00000	26.00000	15.00000	-12.201	14.760	-45.000	-106.07	-437.59E-6
	8.00000	26.00000	15.00000	-12.430	14.760	-45.000	-106.16	-437.34E-6
	9.00000	26.00000	15.00000	-12.611	14.760	-45.000	-106.22	-437.21E-6
	10.00000	26.00000	15.00000	-12.751	14.760	-45.000	-106.23	-437.16E-6
	11.00000	26.00000	15.00000	-12.857	14.760	-45.000	-106.22	-437.21E-6
	12.00000	26.00000	15.00000	-12.933	14.760	-45.000	-106.16	-437.34E-6
	13.00000	26.00000	15.00000	-12.981	14.760	-45.000	-106.07	-437.59E-6
	14.00000	26.00000	15.00000	-13.005	14.760	-44.999	-105.92	-437.99E-6
	15.00000	26.00000	15.00000	-13.004	14.760	-44.999	-105.68	-438.61E-6
	16.00000	26.00000	15.00000	-12.980	14.760	-44.998	-105.31	-439.60E-6
	17.00000	26.00000	15.00000	-12.930	14.760	-44.995	-104.66	-441.29E-6
	18.00000	26.00000	15.00000	-12.852	14.760	-44.984	-103.32	-444.67E-6
	19.00000	26.00000	15.00000	-12.737	14.760	-44.876	-99.355	-453.54E-6
	20.00000	26.00000	15.00000	-12.616	14.760	-22.500	-53.479	-217.61E-6
	21.00000	26.00000	15.00000	-12.878	14.760	-0.12356	-7.6018	18.313E-6
	22.00000	26.00000	15.00000	-12.714	14.760	-0.016225	-3.6282	9.4254E-6
	23.00000	26.00000	15.00000	-12.550	14.760	-0.0048431	-2.2847	6.0213E-6
	24.00000	26.00000	15.00000	-12.377	14.760	-0.0020427	-1.6173	4.2846E-6
	25.00000	26.00000	15.00000	-12.186	14.760	-0.0010428	-1.22186	3.2448E-6
	26.00000	26.00000	15.00000	-11.970	14.760	-599.41E-6	-0.96218	2.5589E-6
	27.00000	26.00000	15.00000	-11.718	14.760	-374.45E-6	-0.77999	2.0761E-6
	28.00000	26.00000	15.00000	-11.421	14.760	-248.39E-6	-0.64599	1.7204E-6
	29.00000	26.00000	15.00000	-11.063	14.760	-172.45E-6	-0.54394	1.4493E-6
	30.00000	26.00000	15.00000	-10.622	14.760	-124.09E-6	-0.46192	1.2369E-6
	31.00000	26.00000	15.00000	-10.067	14.760	-91.885E-6	-0.40032	1.0672E-6
	32.00000	26.00000	15.00000	-9.3433	14.760	-69.662E-6	-0.34845	0.0
	33.00000	26.00000	15.00000	-8.3371	14.760	-53.864E-6	-0.30566	0.0
	34.00000	26.00000	15.00000	-6.4410	14.760	-42.349E-6	-0.26992	0.0
	35.00000	26.00000	15.00000	-4.5466	14.760	-33.776E-6	-0.23977	0.0
	36.00000	26.00000	15.00000	-3.5453	14.760	-27.276E-6	-0.21411	0.0
	37.00000	26.00000	15.00000	-2.8295	14.760	-22.269E-6	-0.19208</	

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X	Y	Z [Level]	Calc Level	Vert Stress	Sum Princ	Vert Strain	
[m]	[m]	[mm]	[MOD]	[kN/m²]	[kN/m²]	[-]	
-16.00000	27.00000	15.00000	-0.24718	14.760	-25.295E-6	-0.20458	0.0
-15.00000	27.00000	15.00000	-0.30365	14.760	-31.158E-6	-0.22840	0.0
-14.00000	27.00000	15.00000	-0.37034	14.760	-38.834E-6	-0.25625	0.0
-13.00000	27.00000	15.00000	-0.44914	14.760	-49.055E-6	-0.28905	0.0
-12.00000	27.00000	15.00000	-0.54239	14.760	-62.940E-6	-0.32808	0.0
-11.00000	27.00000	15.00000	-0.65288	14.760	-82.243E-6	-0.37502	0.0
-10.00000	27.00000	15.00000	-0.78407	14.760	-109.82E-6	-0.43221	1.1520E-6
-9.00000	27.00000	15.00000	-0.94021	14.760	-150.53E-6	-0.50298	1.3403E-6
-8.00000	27.00000	15.00000	-1.1266	14.760	-213.07E-6	-0.59220	1.5774E-6
-7.00000	27.00000	15.00000	-1.3499	14.760	-314.01E-6	-0.70730	1.8831E-6
-6.00000	27.00000	15.00000	-1.6187	14.760	-487.46E-6	-0.86020	2.2884E-6
-5.00000	27.00000	15.00000	-1.9441	14.760	-810.97E-6	-1.0711	2.8463E-6
-4.00000	27.00000	15.00000	-2.3409	14.760	-0.0014853	-1.3773	3.6527E-6
-3.00000	27.00000	15.00000	-2.8292	14.760	-0.0031303	-1.8545	4.9002E-6
-2.00000	27.00000	15.00000	-3.4368	14.760	-0.0081945	-2.6788	7.0196E-6
-1.00000	27.00000	15.00000	-4.1981	14.760	-0.029794	-4.3160	11.044E-6
0.00000	27.00000	15.00000	-5.1145	14.760	-0.12356	-7.5977	18.302E-6
1.00000	27.00000	15.00000	-6.0296	14.760	-0.21732	-10.877	25.556E-6
2.00000	27.00000	15.00000	-6.7872	14.760	-0.23891	-12.509	29.566E-6
3.00000	27.00000	15.00000	-7.3886	14.760	-0.24398	-13.324	31.661E-6
4.00000	27.00000	15.00000	-7.8680	14.760	-0.24562	-13.788	32.872E-6
5.00000	27.00000	15.00000	-8.2531	14.760	-0.24629	-14.076	33.631E-6
6.00000	27.00000	15.00000	-8.5638	14.760	-0.24660	-14.264	34.127E-6
7.00000	27.00000	15.00000	-8.8144	14.760	-0.24677	-14.388	34.454E-6
8.00000	27.00000	15.00000	-9.0159	14.760	-0.24685	-14.466	34.663E-6
9.00000	27.00000	15.00000	-9.1763	14.760	-0.24690	-14.510	34.779E-6
10.00000	27.00000	15.00000	-9.3018	14.760	-0.24691	-14.524	34.816E-6
11.00000	27.00000	15.00000	-9.3970	14.760	-0.24690	-14.510	34.779E-6
12.00000	27.00000	15.00000	-9.4654	14.760	-0.24685	-14.466	34.663E-6
13.00000	27.00000	15.00000	-9.5098	14.760	-0.24677	-14.388	34.454E-6
14.00000	27.00000	15.00000	-9.5317	14.760	-0.24660	-14.264	34.127E-6
15.00000	27.00000	15.00000	-9.5325	14.760	-0.24629	-14.076	33.631E-6
16.00000	27.00000	15.00000	-9.5124	14.760	-0.24562	-13.788	32.872E-6
17.00000	27.00000	15.00000	-9.4710	14.760	-0.24398	-13.324	31.661E-6
18.00000	27.00000	15.00000	-9.4069	14.760	-0.23891	-12.509	29.566E-6
19.00000	27.00000	15.00000	-9.3179	14.760	-0.21732	-10.877	25.556E-6
20.00000	27.00000	15.00000	-9.2047	14.760	-0.12356	-7.5977	18.302E-6
21.00000	27.00000	15.00000	-9.0766	14.760	-0.029794	-4.3160	11.044E-6
22.00000	27.00000	15.00000	-8.9425	14.760	-0.0081945	-2.6788	7.0196E-6
23.00000	27.00000	15.00000	-8.8017	14.760	-0.0031303	-1.8545	4.9002E-6
24.00000	27.00000	15.00000	-8.6493	14.760	-0.0014853	-1.3773	3.6527E-6
25.00000	27.00000	15.00000	-8.4800	14.760	-810.97E-6	-1.0711	2.8463E-6
26.00000	27.00000	15.00000	-8.2879	14.760	-487.46E-6	-0.86020	2.2884E-6
27.00000	27.00000	15.00000	-8.0663	14.760	-314.01E-6	-0.70730	1.8831E-6
28.00000	27.00000	15.00000	-7.8068	14.760	-213.07E-6	-0.59220	1.5774E-6
29.00000	27.00000	15.00000	-7.4994	14.760	-150.53E-6	-0.50298	1.3403E-6
30.00000	27.00000	15.00000	-7.1268	14.760	-109.82E-6	-0.43221	1.1520E-6
31.00000	27.00000	15.00000	-6.6728	14.760	-82.243E-6	-0.37502	0.0
32.00000	27.00000	15.00000	-6.1101	14.760	-62.940E-6	-0.32808	0.0
33.00000	27.00000	15.00000	-5.4060	14.760	-49.055E-6	-0.28905	0.0
34.00000	27.00000	15.00000	-4.5578	14.760	-38.834E-6	-0.25625	0.0
35.00000	27.00000	15.00000	-3.7110	14.760	-31.158E-6	-0.22840	0.0
36.00000	27.00000	15.00000	-3.0113	14.760	-25.295E-6	-0.20458	0.0
37.00000	27.00000	15.00000	-2.4560	14.760	-20.749E-6	-0.18404	0.0
38.00000	27.00000	15.00000	-2.0126	14.760	-17.176E-6	-0.16622	0.0
39.00000	27.00000	15.00000	-1.6548	14.760	-14.336E-6	-0.15066	0.0
40.00000	27.00000	15.00000	-1.3636	14.760	-12.055E-6	-0.13702	0.0
41.00000	27.00000	15.00000	-1.1249	14.760	-10.205E-6	-0.12499	0.0
42.00000	27.00000	15.00000	-0.92810	14.760	-8.6918E-6	-0.11435	0.0
43.00000	27.00000	15.00000	-0.76507	14.760	-7.4447E-6	-0.10488	0.0
44.00000	27.00000	15.00000	-0.62952	14.760	-6.4096E-6	-0.09643	0.0
45.00000	27.00000	15.00000	-0.51649	14.760	-5.5448E-6	-0.08881	0.0
46.00000	27.00000	15.00000	-0.42200	14.760	-4.8181E-6	-0.082094	0.0
47.00000	27.00000	15.00000	-0.34288	14.760	-4.2039E-6	-0.075980	0.0
48.00000	27.00000	15.00000	-0.27652	14.760	-3.6822E-6	-0.07045	0.0
49.00000	27.00000	15.00000	-0.22083	14.760	-3.2370E-6	-0.065459	0.0
50.00000	27.00000	15.00000	-0.17405	14.760	-2.8553E-6	-0.060919	0.0
51.00000	27.00000	15.00000	-0.13477	14.760	-2.5268E-6	-0.05679	0.0
52.00000	27.00000	15.00000	-0.10177	14.760	-2.2428E-6	-0.053023	0.0
53.00000	27.00000	15.00000	-0.074081	14.760	-1.9965E-6	-0.049581	0.0
54.00000	27.00000	15.00000	-0.050865	14.760	-1.7821E-6	-0.046429	0.0
55.00000	27.00000	15.00000	-0.031429	14.760	-1.5948E-6	-0.043538	0.0
-25.00000	28.00000	15.00000	-980.30E-6	14.760	-5.2807E-6	-0.086304	0.0
-24.00000	28.00000	15.00000	-0.012628	14.760	-6.0893E-6	-0.093505	0.0
-23.00000	28.00000	15.00000	-0.026465	14.760	-7.0539E-6	-0.10153	0.0
-22.00000	28.00000	15.00000	-0.042859	14.760	-8.2118E-6	-0.11050	0.0
-21.00000	28.00000	15.00000	-0.062243	14.760	-9.6111E-6	-0.12057	0.0
-20.00000	28.00000	15.00000	-0.085126	14.760	-11.315E-6	-0.13190	0.0
-19.00000	28.00000	15.00000	-0.11210	14.760	-13.405E-6	-0.14471	0.0
-18.00000	28.00000	15.00000	-0.14388	14.760	-15.994E-6	-0.15927	0.0
-17.00000	28.00000	15.00000	-0.18128	14.760	-19.231E-6	-0.17588	0.0
-16.00000	28.00000	15.00000	-0.22529	14.760	-23.323E-6	-0.19493	0.0
-15.00000	28.00000	15.00000	-0.27707	14.760	-28.560E-6	-0.21693	0.0
-14.00000	28.00000	15.00000	-0.33799	14.760	-35.357E-6	-0.24248	0.0
-13.00000	28.00000	15.00000	-0.40970	14.760	-44.318E-6	-0.27239	0.0
-12.00000	28.00000	15.00000	-0.49417	14.760	-56.348E-6	-0.30777	0.0
-11.00000	28.00000	15.00000	-0.59374	14.760	-72.836E-6	-0.34981	0.0
-10.00000	28.00000	15.00000	-0.71126	14.760	-95.992E-6	-0.40056	1.0677E-6
-9.00000	28.00000	15.00000	-0.85012	14.760	-129.45E-6	-0.46255	1.2327E-6
-8.00000	28.00000	15.00000	-1.0145	14.760	-179.48E-6	-0.53945	1.4371E-6
-7.00000	28.00000	15.00000	-1.2094	14.760	-257.41E-6	-0.63663	1.6953E-6
-6.00000	28.00000	15.00000	-1.4409	14.760	-384.98E-6	-0.76219	2.0284E-6
-5.00000	28.00000	15.00000	-1.7165	14.760	-607.03E-6	-0.92888	2.4698E-6
-4.00000	28.00000	15.00000	-2.0450	14.760	-0.0010236	-1.1575	3.0734E-6
-3.00000	28.00000	15.00000	-2.4363	14.760	-0.0018780	-1.4830	3.9286E-6
-2.00000	28.00000	15.00000	-2.8997	14.760	-0.0037942	-1.9634	5.1805E-6
-1.00000	28.00000	15.0000					

Total Heave

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Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
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Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	1.00000	30.00000	15.00000	-2.9606	14.760	-0.0025970	-1.8409	4.8725E-6
	2.00000	30.00000	15.00000	-3.2546	14.760	-0.0030571	-2.0534	5.4325E-6
	3.00000	30.00000	15.00000	-3.5243	14.760	-0.0033877	-2.2319	5.9036E-6
	4.00000	30.00000	15.00000	-3.7647	14.760	-0.0036075	-2.3746	6.2809E-6
	5.00000	30.00000	15.00000	-3.9746	14.760	-0.0037490	-2.4850	6.5734E-6
	6.00000	30.00000	15.00000	-4.1547	14.760	-0.0038391	-2.5680	6.7937E-6
	7.00000	30.00000	15.00000	-4.3072	14.760	-0.0038959	-2.6282	6.9534E-6
	8.00000	30.00000	15.00000	-4.4344	14.760	-0.0039304	-2.6689	7.0615E-6
	9.00000	30.00000	15.00000	-4.5388	14.760	-0.0039490	-2.6925	7.1241E-6
	10.00000	30.00000	15.00000	-4.6226	14.760	-0.0039549	-2.7002	7.1445E-6
	11.00000	30.00000	15.00000	-4.6876	14.760	-0.0039490	-2.6925	7.1241E-6
	12.00000	30.00000	15.00000	-4.7355	14.760	-0.0039304	-2.6689	7.0615E-6
	13.00000	30.00000	15.00000	-4.7676	14.760	-0.0038959	-2.6282	6.9534E-6
	14.00000	30.00000	15.00000	-4.7849	14.760	-0.0038391	-2.5680	6.7937E-6
	15.00000	30.00000	15.00000	-4.7884	14.760	-0.0037490	-2.4850	6.5734E-6
	16.00000	30.00000	15.00000	-4.7787	14.760	-0.0036075	-2.3746	6.2809E-6
	17.00000	30.00000	15.00000	-4.7562	14.760	-0.0033877	-2.2319	5.9036E-6
	18.00000	30.00000	15.00000	-4.7215	14.760	-0.0030571	-2.0534	5.4325E-6
	19.00000	30.00000	15.00000	-4.6750	14.760	-0.0025970	-1.8409	4.8725E-6
	20.00000	30.00000	15.00000	-4.6174	14.760	-0.0020406	-1.6060	4.2543E-6
	21.00000	30.00000	15.00000	-4.5495	14.760	-0.0014840	-1.3696	3.6324E-6
	22.00000	30.00000	15.00000	-4.4715	14.760	-0.0010229	-1.1529	3.0613E-6
	23.00000	30.00000	15.00000	-4.3833	14.760	-690.60E-6	-0.96737	2.5712E-6
	24.00000	30.00000	15.00000	-4.2842	14.760	-468.35E-6	-0.81453	2.1668E-6
	25.00000	30.00000	15.00000	-4.1730	14.760	-323.41E-6	-0.69061	1.8384E-6
	26.00000	30.00000	15.00000	-4.0477	14.760	-228.57E-6	-0.59032	1.5712E-6
	27.00000	30.00000	15.00000	-3.9061	14.760	-165.44E-6	-0.50874	1.3554E-6
	28.00000	30.00000	15.00000	-3.7459	14.760	-122.46E-6	-0.44183	1.1775E-6
	29.00000	30.00000	15.00000	-3.5643	14.760	-92.513E-6	-0.38644	1.0301E-6
	30.00000	30.00000	15.00000	-3.3592	14.760	-71.168E-6	-0.34018	0.0
	31.00000	30.00000	15.00000	-3.1293	14.760	-55.634E-6	-0.30120	0.0
	32.00000	30.00000	15.00000	-2.8753	14.760	-44.112E-6	-0.26808	0.0
	33.00000	30.00000	15.00000	-2.6015	14.760	-35.420E-6	-0.23974	0.0
	34.00000	30.00000	15.00000	-2.3166	14.760	-28.760E-6	-0.21532	0.0
	35.00000	30.00000	15.00000	-2.0328	14.760	-23.587E-6	-0.19415	0.0
	36.00000	30.00000	15.00000	-1.7621	14.760	-19.519E-6	-0.17569	0.0
	37.00000	30.00000	15.00000	-1.5132	14.760	-16.283E-6	-0.15952	0.0
	38.00000	30.00000	15.00000	-1.2904	14.760	-13.684E-6	-0.14528	0.0
	39.00000	30.00000	15.00000	-1.0945	14.760	-11.576E-6	-0.13268	0.0
	40.00000	30.00000	15.00000	-0.92419	14.760	-9.8533E-6	-0.12151	0.0
	41.00000	30.00000	15.00000	-0.77727	14.760	-8.4337E-6	-0.11155	0.0
	42.00000	30.00000	15.00000	-0.65106	14.760	-7.2559E-6	-0.10264	0.0
	43.00000	30.00000	15.00000	-0.54299	14.760	-6.2725E-6	-0.094655	0.0
	44.00000	30.00000	15.00000	-0.45062	14.760	-5.4465E-6	-0.087471	0.0
	45.00000	30.00000	15.00000	-0.37179	14.760	-4.7488E-6	-0.080990	0.0
	46.00000	30.00000	15.00000	-0.30458	14.760	-4.1565E-6	-0.075129	0.0
	47.00000	30.00000	15.00000	-0.24734	14.760	-3.6512E-6	-0.069814	0.0
	48.00000	30.00000	15.00000	-0.19864	14.760	-3.2183E-6	-0.064984	0.0
	49.00000	30.00000	15.00000	-0.15724	14.760	-2.8459E-6	-0.060585	0.0
	50.00000	30.00000	15.00000	-0.12208	14.760	-2.5242E-6	-0.056570	0.0
	51.00000	30.00000	15.00000	-0.092258	14.760	-2.2452E-6	-0.052898	0.0
	52.00000	30.00000	15.00000	-0.067006	14.760	-2.0026E-6	-0.049533	0.0
	53.00000	30.00000	15.00000	-0.045658	14.760	-1.7908E-6	-0.046444	0.0
	54.00000	30.00000	15.00000	-0.027648	14.760	-1.6053E-6	-0.043604	0.0
	55.00000	30.00000	15.00000	-0.012493	14.760	-1.4424E-6	-0.040989	0.0
	-25.00000	31.00000	15.00000	0.010435	14.760	4.4853E-6	-0.078287	0.0
	-24.00000	31.00000	15.00000	0.0012738	14.760	-5.1294E-6	-0.084411	0.0
	-23.00000	31.00000	15.00000	-0.0095806	14.760	-5.8888E-6	-0.091181	0.0
	-22.00000	31.00000	15.00000	-0.022396	14.760	-6.7888E-6	-0.098684	0.0
	-21.00000	31.00000	15.00000	-0.037480	14.760	-7.8613E-6	-0.10702	0.0
	-20.00000	31.00000	15.00000	-0.058190	14.760	-9.1469E-6	-0.11630	0.0
	-19.00000	31.00000	15.00000	-0.075938	14.760	-10.698E-6	-0.12670	0.0
	-18.00000	31.00000	15.00000	-0.10020	14.760	-12.582E-6	-0.13835	0.0
	-17.00000	31.00000	15.00000	-0.12852	14.760	-14.888E-6	-0.15146	0.0
	-16.00000	31.00000	15.00000	-0.16152	14.760	-17.734E-6	-0.16627	0.0
	-15.00000	31.00000	15.00000	-0.19995	14.760	-21.278E-6	-0.18305	0.0
	-14.00000	31.00000	15.00000	-0.24461	14.760	-25.733E-6	-0.20220	0.0
	-13.00000	31.00000	15.00000	-0.29647	14.760	-31.393E-6	-0.22410	0.0
	-12.00000	31.00000	15.00000	-0.35660	14.760	-38.669E-6	-0.24929	0.0
	-11.00000	31.00000	15.00000	-0.42622	14.760	-48.138E-6	-0.27841	0.0
	-10.00000	31.00000	15.00000	-0.50671	14.760	-60.627E-6	-0.31221	0.0
	-9.00000	31.00000	15.00000	-0.59956	14.760	-77.339E-6	-0.35186	0.0
	-8.00000	31.00000	15.00000	-0.70640	14.760	-100.03E-6	-0.39843	1.0620E-6
	-7.00000	31.00000	15.00000	-0.82891	14.760	-131.30E-6	-0.45348	1.2084E-6
	-6.00000	31.00000	15.00000	-0.96874	14.760	-174.95E-6	-0.51886	1.3822E-6
	-5.00000	31.00000	15.00000	-1.1273	14.760	-236.44E-6	-0.59664	1.5889E-6
	-4.00000	31.00000	15.00000	-1.3054	14.760	-323.18E-6	-0.68898	1.8340E-6
	-3.00000	31.00000	15.00000	-1.5028	14.760	-443.94E-6	-0.79760	2.1220E-6
	-2.00000	31.00000	15.00000	-1.7178	14.760	-606.09E-6	-0.92281	2.4537E-6
	-1.00000	31.00000	15.00000	-1.9463	14.760	-809.50E-6	-1.0621	2.8222E-6
	0.00000	31.00000	15.00000	-2.1819	14.760	-0.0010399	-1.2097	3.2114E-6
	1.00000	31.00000	15.00000	-2.4166	14.760	-0.0012700	-1.3552	3.5972E-6
	2.00000	31.00000	15.00000	-2.6425	14.760	-0.0014726	-1.4907	3.9556E-6
	3.00000	31.00000	15.00000	-2.8530	14.760	-0.0016333	-1.6095	4.2702E-6
	4.00000	31.00000	15.00000	-3.0441	14.760	-0.0017519	-1.7089	4.5337E-6
	5.00000	31.00000	15.00000	-3.2139	14.760	-0.0018356	-1.7891	4.7465E-6
	6.00000	31.00000	15.00000	-3.3620	14.760	-0.0018931	-1.8515	4.9120E-6
	7.00000	31.00000	15.00000	-3.4890	14.760	-0.0019314	-1.8978	5.0351E-6
	8.00000	31.00000	15.00000	-3.5963	14.760	-0.0019556	-1.9297	5.1198E-6
	9.00000	31.00000	15.00000	-3.6852	14.760	-0.0019689	-1.9483	5.1693E-6
	10.00000	31.00000	15.00000	-3.7571	14.760	-0.0019730	-1.9541	5.1856E-6
	11.00000	31.00000	15.00000	-3.8134	14.760	-0.0019689	-1.9483	5.1693E-6
	12.00000	31.00000	15.00000	-3.8552	14.760	-0.0019556	-1.9297	5.1198E-6
	13.00000	31.00000	15.00000	-3.8835	14.760	-0.0019314	-1.8978	5.0351E-6
	14.00000	31.00000	15.00000	-3.8993	14.760	-0.0018931	-1.8515	4.9120E-6
	15.00000	31.00000	15.00000	-3.9031	14.760	-0.0018356	-1.7891	4.7465E-6
	16.00000	31.00000	15.00000	-3.8956	14.760	-0.0017519	-1.7089	4.5337E-6
	17.00000	31.00000	15.00000	-3.8773	14.760	-0.0016333	-1.6095	4.2702E-6
	18.00000	31.00000	15.00000	-3.8485	14.760	-0.0014726	-1.4907	3.9556E-6
	19.00000	31.00000	15.00000	-3.8099	14.760	-0.0012700	-1.3552	3.5972E-6
	20.00000	31.00000	15.00000	-3.7617	14.760	-0.0010399	-1.2097	3.2114E-6
	21.00000	31.00000	15.00000	-3.7044	14.760	-809.50E-6	-1.0621	2.8222E-6
	22.00000	31.00000	15.00000	-3.6382	14.760	-606.09E-6	-0.92281	2.4537E-6
	23.00000	31.00000	15.00000	-3.5628	14.760	-443.94E-6	-0.79760	2.1220E-6
	24.00000	31.00000	15.00000	-3.4779	14.760	-323.18E-6	-0.68898	1.8340E-6
	25.00000	31.00000	15.00000	-3.3826	14.760	-236.44E-6	-0.59664	1.5889E-6
	26.00000	31.00000	15.00000	-3.2756	14.760	-174.95E-6	-0.51886	1.3822E-6
	27.00000	31.00000	15.00000	-3.1557	14.760	-131.30E-6	-0.45348	1.2084E-6
	28.00000	31.00000	15.00000	-3.0213	14.760	-100.03E-6	-0.39843	1.0620E-6
	29.00000	31.00000	15.00000	-2.8712	14.760	-77.339E-6	-0.35186	0.0
	30.00000	31.00000	15.00000	-2.7043	14.760	-60.627E-6	-0.31221	0.0
	31.00000	31.00000	15.00000	-2.5208	14.760	-48.138E-6	-0.27841	0.0
	32.00000	31.00000	15.00000	-2.3219</				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	50.00000	31.00000	15.00000	-0.10557	14.760	-2.4120E-6	-0.055054
	51.00000	31.00000	15.00000	-0.078708	14.760	-2.1496E-6	-0.051538
	52.00000	31.00000	15.00000	-0.055886	14.760	-1.9206E-6	-0.048310
	53.00000	31.00000	15.00000	-0.036540	14.760	-1.7204E-6	-0.045343
	54.00000	31.00000	15.00000	-0.020184	14.760	-1.5446E-6	-0.042610
	55.00000	31.00000	15.00000	-0.0063949	14.760	-1.3899E-6	-0.040089
	-25.00000	32.00000	15.00000	0.014093	14.760	-4.2259E-6	-0.075574
	-24.00000	32.00000	15.00000	0.0057257	14.760	-4.8183E-6	-0.081347
	-23.00000	32.00000	15.00000	-0.0041799	14.760	-5.5137E-6	-0.087710
	-22.00000	32.00000	15.00000	-0.015861	14.760	-6.3338E-6	-0.094740
	-21.00000	32.00000	15.00000	-0.025990	14.760	-7.3060E-6	-0.10252
	-20.00000	32.00000	15.00000	-0.045678	14.760	-8.4648E-6	-0.11117
	-19.00000	32.00000	15.00000	-0.064483	14.760	-9.8538E-6	-0.12079
	-18.00000	32.00000	15.00000	-0.086414	14.760	-11.529E-6	-0.13153
	-17.00000	32.00000	15.00000	-0.11194	14.760	-13.564E-6	-0.14356
	-16.00000	32.00000	15.00000	-0.14159	14.760	-16.052E-6	-0.15707
	-15.00000	32.00000	15.00000	-0.17597	14.760	-19.118E-6	-0.17231
	-14.00000	32.00000	15.00000	-0.21576	14.760	-22.928E-6	-0.18954
	-13.00000	32.00000	15.00000	-0.26174	14.760	-27.704E-6	-0.20910
	-12.00000	32.00000	15.00000	-0.31475	14.760	-33.746E-6	-0.23139
	-11.00000	32.00000	15.00000	-0.37576	14.760	-41.467E-6	-0.25690
	-10.00000	32.00000	15.00000	-0.44578	14.760	-51.430E-6	-0.28620
	-9.00000	32.00000	15.00000	-0.52592	14.760	-64.418E-6	-0.31997
	-8.00000	32.00000	15.00000	-0.61729	14.760	-81.510E-6	-0.35903
	-7.00000	32.00000	15.00000	-0.72099	14.760	-104.19E-6	-0.40430
	-6.00000	32.00000	15.00000	-0.83797	14.760	-134.43E-6	-0.45679
	-5.00000	32.00000	15.00000	-0.96888	14.760	-174.78E-6	-0.51754
	-4.00000	32.00000	15.00000	-1.1139	14.760	-228.17E-6	-0.58740
	-3.00000	32.00000	15.00000	-1.2723	14.760	-297.42E-6	-0.66674
	-2.00000	32.00000	15.00000	-1.4423	14.760	-383.92E-6	-0.75499
	-1.00000	32.00000	15.00000	-1.6221	14.760	-485.91E-6	-0.85021
	0.00000	32.00000	15.00000	-1.8039	14.760	-597.23E-6	-0.94888
	1.00000	32.00000	15.00000	-1.9860	14.760	-708.32E-6	-1.0464
	2.00000	32.00000	15.00000	-2.1622	14.760	-809.58E-6	-1.1382
	3.00000	32.00000	15.00000	-2.3282	14.760	-894.81E-6	-1.2207
	4.00000	32.00000	15.00000	-2.4808	14.760	-962.20E-6	-1.2918
	5.00000	32.00000	15.00000	-2.6182	14.760	-0.0010130	-1.3508
	6.00000	32.00000	15.00000	-2.7397	14.760	-0.0010500	-1.3978
	7.00000	32.00000	15.00000	-2.8451	14.760	-0.0010757	-1.4334
	8.00000	32.00000	15.00000	-2.9351	14.760	-0.0010925	-1.4583
	9.00000	32.00000	15.00000	-3.0103	14.760	-0.0011020	-1.4729
	10.00000	32.00000	15.00000	-3.0716	14.760	-0.0011051	-1.4778
	11.00000	32.00000	15.00000	-3.1200	14.760	-0.0011020	-1.4729
	12.00000	32.00000	15.00000	-3.1563	14.760	-0.0010925	-1.4583
	13.00000	32.00000	15.00000	-3.1811	14.760	-0.0010757	-1.4334
	14.00000	32.00000	15.00000	-3.1952	14.760	-0.0010500	-1.3978
	15.00000	32.00000	15.00000	-3.1991	14.760	-0.0010130	-1.3508
	16.00000	32.00000	15.00000	-3.1933	14.760	-962.20E-6	-1.2918
	17.00000	32.00000	15.00000	-3.1783	14.760	-894.81E-6	-1.2207
	18.00000	32.00000	15.00000	-3.1545	14.760	-809.58E-6	-1.1382
	19.00000	32.00000	15.00000	-3.1221	14.760	-708.32E-6	-1.0464
	20.00000	32.00000	15.00000	-3.0816	14.760	-597.23E-6	-0.94888
	21.00000	32.00000	15.00000	-3.0331	14.760	-485.91E-6	-0.85021
	22.00000	32.00000	15.00000	-2.9768	14.760	-383.92E-6	-0.75499
	23.00000	32.00000	15.00000	-2.9126	14.760	-297.42E-6	-0.66674
	24.00000	32.00000	15.00000	-2.8401	14.760	-228.17E-6	-0.58740
	25.00000	32.00000	15.00000	-2.7588	14.760	-174.78E-6	-0.51754
	26.00000	32.00000	15.00000	-2.6680	14.760	-134.43E-6	-0.45679
	27.00000	32.00000	15.00000	-2.5669	14.760	-104.19E-6	-0.40430
	28.00000	32.00000	15.00000	-2.4547	14.760	-81.510E-6	-0.35903
	29.00000	32.00000	15.00000	-2.3307	14.760	-64.418E-6	-0.31997
	30.00000	32.00000	15.00000	-2.1949	14.760	-51.430E-6	-0.28620
	31.00000	32.00000	15.00000	-2.0475	14.760	-41.467E-6	-0.25690
	32.00000	32.00000	15.00000	-1.8902	14.760	-33.746E-6	-0.23139
	33.00000	32.00000	15.00000	-1.7255	14.760	-27.704E-6	-0.20910
	34.00000	32.00000	15.00000	-1.5571	14.760	-22.928E-6	-0.18954
	35.00000	32.00000	15.00000	-1.3895	14.760	-19.118E-6	-0.17231
	36.00000	32.00000	15.00000	-1.2270	14.760	-16.052E-6	-0.15707
	37.00000	32.00000	15.00000	-1.0735	14.760	-13.564E-6	-0.14356
	38.00000	32.00000	15.00000	-0.9345	14.760	-11.529E-6	-0.13153
	39.00000	32.00000	15.00000	-0.80231	14.760	-9.8538E-6	-0.12079
	40.00000	32.00000	15.00000	-0.68551	14.760	-8.4648E-6	-0.11117
	41.00000	32.00000	15.00000	-0.58374	14.760	-7.3060E-6	-0.10252
	42.00000	32.00000	15.00000	-0.49327	14.760	-6.3338E-6	-0.094740
	43.00000	32.00000	15.00000	-0.41412	14.760	-5.5137E-6	-0.087710
	44.00000	32.00000	15.00000	-0.34520	14.760	-4.8183E-6	-0.081347
	45.00000	32.00000	15.00000	-0.28541	14.760	-4.2259E-6	-0.075574
	46.00000	32.00000	15.00000	-0.23372	14.760	-3.7191E-6	-0.070325
	47.00000	32.00000	15.00000	-0.18915	14.760	-3.2836E-6	-0.065541
	48.00000	32.00000	15.00000	-0.15081	14.760	-2.9080E-6	-0.061174
	49.00000	32.00000	15.00000	-0.11791	14.760	-2.5828E-6	-0.057170
	50.00000	32.00000	15.00000	-0.089743	14.760	-2.3002E-6	-0.053519
	51.00000	32.00000	15.00000	-0.065678	14.760	-2.0540E-6	-0.050158
	52.00000	32.00000	15.00000	-0.045170	14.760	-1.8386E-6	-0.047068
	53.00000	32.00000	15.00000	-0.027740	14.760	-1.6497E-6	-0.044221
	54.00000	32.00000	15.00000	-0.012969	14.760	-1.4836E-6	-0.041596
	55.00000	32.00000	15.00000	-494.20E-6	14.760	-1.3371E-6	-0.039171
	-25.00000	33.00000	15.00000	0.017629	14.760	-3.9725E-6	-0.072866
	-24.00000	33.00000	15.00000	0.010028	14.760	-4.5153E-6	-0.078296
	-23.00000	33.00000	15.00000	0.0010368	14.760	-5.1496E-6	-0.084262
	-22.00000	33.00000	15.00000	-0.0095549	14.760	-5.8941E-6	-0.090833
	-21.00000	33.00000	15.00000	-0.021984	14.760	-6.7718E-6	-0.098083
	-20.00000	33.00000	15.00000	-0.036523	14.760	-7.8117E-6	-0.10610
	-19.00000	33.00000	15.00000	-0.053479	14.760	-9.0499E-6	-0.11499
	-18.00000	33.00000	15.00000	-0.073201	14.760	-10.533E-6	-0.12487
	-17.00000	33.00000	15.00000	-0.096086	14.760	-12.318E-6	-0.13587
	-16.00000	33.00000	15.00000	-0.12258	14.760	-14.482E-6	-0.14817
	-15.00000	33.00000	15.00000	-0.15318	14.760	-17.120E-6	-0.16194
	-14.00000	33.00000	15.00000	-0.18844	14.760	-20.360E-6	-0.17741
	-13.00000	33.00000	15.00000	-0.22899	14.760	-24.366E-6	-0.19483
	-12.00000	33.00000	15.00000	-0.27548	14.760	-29.356E-6	-0.21458
	-11.00000	33.00000	15.00000	-0.32866	14.760	-35.616E-6	-0.23679
	-10.00000	33.00000	15.00000	-0.38927	14.760	-43.526E-6	-0.26208
	-9.00000	33.00000	15.00000	-0.45811	14.760	-53.583E-6	-0.29084
	-8.00000	33.00000	15.00000	-0.53592	14.760	-66.440E-6	-0.32359
	-7.00000	33.00000	15.00000	-0.62340	14.760	-82.925E-6	-0.36097
	-6.00000	33.00000	15.00000	-0.72105	14.760	-104.06E-6	-0.40322
	-5.00000	33.00000	15.00000	-0.82910	14.760	-131.00E-6	-0.45111
	-4.00000	33.00000	15.00000	-0.94738	14.760	-164.93E-6	-0.50481
	-3.00000	33.00000	15.00000	-1.0751	14.760	-206.67E-6	-0.56420
	-2.00000	33.00000	15.00000	-1.2108	14.760	-256.27E-6	-0.62868
	-1.00000	33.00000	15.00000	-1.3521	14.760	-312.43E-6	-0.69668
	0.00000	33.00000	15.00000	-1.4960	14.760	-372.31E-6	-0.76628
	1.00000	33.00000	15.00000	-1.6393	14.760	-431.98E-6	-0.83486
	2.00000	33.00000	15.00000	-1.7784	14.760	-487.51E-6	-0.89985
	3.00000	33.00000	15.00000	-1.9104	14.760	-536.03E-6	-0.95910
	4.00000	33.00000	15.00000	-2.0329	14.760	-576.17E-6	-1.0111
	5.00000	33.00000	15.00000	-2.1443	14.760	-607.91E-6	-1.0551
	6.00000	33.00000	15.00000	-2.2438	14.760	-631.98E-6	-1.0908
	7.00000	33.00000	15.00000	-2.3311	14.760	-649.37E-6	-1.1182
	8.00000	33.00000	15.00000	-2.4062	14.760	-661.05E-6	-1.1372
	9.00000	33.00000	15.00000	-2.4695	14.760	-667.76E-6	-1.1491
	10.00000	33.00000	15.00000	-2.5216	14.760	-669.94E-6	-1.1530
	11.00000	33.00000	15.00000	-2.5630	14.760	-667.76E-6	-1.1491
	12.00000	33.00000	15.00000	-2.5942	14.760	-661.05E-6	-1.1376



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
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Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
18.00000	33.00000	15.00000	-2.5955	14.760	-487.51E-6	-0.89985	2.3943E-6
19.00000	33.00000	15.00000	-2.5683	14.760	-431.98E-6	-0.83486	2.2217E-6
20.00000	33.00000	15.00000	-2.5341	14.760	-372.31E-6	-0.76628	2.0396E-6
21.00000	33.00000	15.00000	-2.4931	14.760	-312.43E-6	-0.69668	1.8547E-6
22.00000	33.00000	15.00000	-2.4453	14.760	-256.27E-6	-0.62862	1.6740E-6
23.00000	33.00000	15.00000	-2.3906	14.760	-206.67E-6	-0.56420	1.5028E-6
24.00000	33.00000	15.00000	-2.3289	14.760	-164.93E-6	-0.50481	1.3449E-6
25.00000	33.00000	15.00000	-2.2599	14.760	-131.00E-6	-0.45111	1.2021E-6
26.00000	33.00000	15.00000	-2.1831	14.760	-104.06E-6	-0.40322	1.0747E-6
27.00000	33.00000	15.00000	-2.0982	14.760	-82.925E-6	-0.36087	0.0
28.00000	33.00000	15.00000	-2.0046	14.760	-66.440E-6	-0.32359	0.0
29.00000	33.00000	15.00000	-1.9024	14.760	-53.583E-6	-0.29084	0.0
30.00000	33.00000	15.00000	-1.7915	14.760	-43.526E-6	-0.26208	0.0
31.00000	33.00000	15.00000	-1.6727	14.760	-35.616E-6	-0.23679	0.0
32.00000	33.00000	15.00000	-1.5471	14.760	-29.356E-6	-0.21450	0.0
33.00000	33.00000	15.00000	-1.4167	14.760	-24.366E-6	-0.19493	0.0
34.00000	33.00000	15.00000	-1.2840	14.760	-20.360E-6	-0.17741	0.0
35.00000	33.00000	15.00000	-1.1520	14.760	-17.120E-6	-0.16194	0.0
36.00000	33.00000	15.00000	-1.0236	14.760	-14.482E-6	-0.14817	0.0
37.00000	33.00000	15.00000	-0.90119	14.760	-12.318E-6	-0.13587	0.0
38.00000	33.00000	15.00000	-0.78682	14.760	-10.533E-6	-0.12487	0.0
39.00000	33.00000	15.00000	-0.68166	14.760	-9.0499E-6	-0.11499	0.0
40.00000	33.00000	15.00000	-0.58624	14.760	-7.8117E-6	-0.10610	0.0
41.00000	33.00000	15.00000	-0.50062	14.760	-6.7718E-6	-0.098083	0.0
42.00000	33.00000	15.00000	-0.42445	14.760	-5.8941E-6	-0.090833	0.0
43.00000	33.00000	15.00000	-0.35718	14.760	-5.149E-6	-0.084262	0.0
44.00000	33.00000	15.00000	-0.29810	14.760	-4.5153E-6	-0.078296	0.0
45.00000	33.00000	15.00000	-0.24646	14.760	-3.9725E-6	-0.072866	0.0
46.00000	33.00000	15.00000	-0.20150	14.760	-3.5061E-6	-0.067915	0.0
47.00000	33.00000	15.00000	-0.16250	14.760	-3.1038E-6	-0.063391	0.0
48.00000	33.00000	15.00000	-0.12878	14.760	-2.7556E-6	-0.059258	0.0
49.00000	33.00000	15.00000	-0.099701	14.760	-2.4531E-6	-0.055456	0.0
50.00000	33.00000	15.00000	-0.074699	14.760	-2.1895E-6	-0.051971	0.0
51.00000	33.00000	15.00000	-0.053263	14.760	-1.9590E-6	-0.048764	0.0
52.00000	33.00000	15.00000	-0.034938	14.760	-1.7569E-6	-0.045811	0.0
53.00000	33.00000	15.00000	-0.019321	14.760	-1.5793E-6	-0.043081	0.0
54.00000	33.00000	15.00000	-0.0060573	14.760	-1.4226E-6	-0.040568	0.0
55.00000	33.00000	15.00000	0.0051641	14.760	-1.2842E-6	-0.038238	0.0
-25.00000	34.00000	15.00000	0.021019	14.760	-3.7264E-6	-0.070175	0.0
-24.00000	34.00000	15.00000	0.014153	14.760	-4.2221E-6	-0.075272	0.0
-23.00000	34.00000	15.00000	0.000355	14.760	-4.7988E-6	-0.080955	0.0
-22.00000	34.00000	15.00000	-0.0035175	14.760	-5.4721E-6	-0.086982	0.0
-21.00000	34.00000	15.00000	-0.014712	14.760	-6.2615E-6	-0.093719	0.0
-20.00000	34.00000	15.00000	-0.027783	14.760	-7.1910E-6	-0.10114	0.0
-19.00000	34.00000	15.00000	-0.042993	14.760	-8.2904E-6	-0.10933	0.0
-18.00000	34.00000	15.00000	-0.060639	14.760	-9.5963E-6	-0.11840	0.0
-17.00000	34.00000	15.00000	-0.081053	14.760	-11.157E-6	-0.12844	0.0
-16.00000	34.00000	15.00000	-0.10461	14.760	-13.030E-6	-0.13960	0.0
-15.00000	34.00000	15.00000	-0.13170	14.760	-15.291E-6	-0.15202	0.0
-14.00000	34.00000	15.00000	-0.16280	14.760	-18.034E-6	-0.16587	0.0
-13.00000	34.00000	15.00000	-0.19838	14.760	-21.380E-6	-0.18135	0.0
-12.00000	34.00000	15.00000	-0.23896	14.760	-25.484E-6	-0.19868	0.0
-11.00000	34.00000	15.00000	-0.28510	14.760	-30.544E-6	-0.21811	0.0
-10.00000	34.00000	15.00000	-0.33734	14.760	-36.809E-6	-0.23992	0.0
-9.00000	34.00000	15.00000	-0.39624	14.760	-44.593E-6	-0.26442	0.0
-8.00000	34.00000	15.00000	-0.46230	14.760	-54.285E-6	-0.29191	0.0
-7.00000	34.00000	15.00000	-0.53591	14.760	-66.343E-6	-0.32271	0.0
-6.00000	34.00000	15.00000	-0.61733	14.760	-81.288E-6	-0.35709	0.0
-5.00000	34.00000	15.00000	-0.70656	14.760	-99.650E-6	-0.39523	1.0534E-6
-4.00000	34.00000	15.00000	-0.80328	14.760	-121.88E-6	-0.43713	1.1649E-6
-3.00000	34.00000	15.00000	-0.90674	14.760	-148.18E-6	-0.48255	1.2858E-6
-2.00000	34.00000	15.00000	-1.0157	14.760	-178.33E-6	-0.53090	1.4143E-6
-1.00000	34.00000	15.00000	-1.1285	14.760	-211.52E-6	-0.58121	1.5481E-6
0.00000	34.00000	15.00000	-1.2430	14.760	-246.34E-6	-0.63215	1.6835E-6
1.00000	34.00000	15.00000	-1.3569	14.760	-280.98E-6	-0.68218	1.8165E-6
2.00000	34.00000	15.00000	-1.4677	14.760	-313.63E-6	-0.72974	1.9430E-6
3.00000	34.00000	15.00000	-1.5734	14.760	-342.85E-6	-0.77346	2.0592E-6
4.00000	34.00000	15.00000	-1.6721	14.760	-367.78E-6	-0.81231	2.1625E-6
5.00000	34.00000	15.00000	-1.7627	14.760	-388.16E-6	-0.84559	2.2510E-6
6.00000	34.00000	15.00000	-1.8443	14.760	-404.11E-6	-0.87293	2.3237E-6
7.00000	34.00000	15.00000	-1.9164	14.760	-415.95E-6	-0.89417	2.3803E-6
8.00000	34.00000	15.00000	-1.9789	14.760	-424.07E-6	-0.90930	2.4205E-6
9.00000	34.00000	15.00000	-2.0321	14.760	-428.81E-6	-0.91835	2.4446E-6
10.00000	34.00000	15.00000	-2.0761	14.760	-430.36E-6	-0.92136	2.4526E-6
11.00000	34.00000	15.00000	-2.1113	14.760	-428.81E-6	-0.91835	2.4446E-6
12.00000	34.00000	15.00000	-2.1380	14.760	-424.07E-6	-0.90930	2.4205E-6
13.00000	34.00000	15.00000	-2.1566	14.760	-415.95E-6	-0.89417	2.3803E-6
14.00000	34.00000	15.00000	-2.1676	14.760	-404.11E-6	-0.87293	2.3237E-6
15.00000	34.00000	15.00000	-2.1712	14.760	-388.16E-6	-0.84559	2.2510E-6
16.00000	34.00000	15.00000	-2.1678	14.760	-367.78E-6	-0.81231	2.1625E-6
17.00000	34.00000	15.00000	-2.1577	14.760	-342.85E-6	-0.77346	2.0592E-6
18.00000	34.00000	15.00000	-2.1411	14.760	-313.63E-6	-0.72974	1.9430E-6
19.00000	34.00000	15.00000	-2.1183	14.760	-280.98E-6	-0.68218	1.8165E-6
20.00000	34.00000	15.00000	-2.0894	14.760	-246.34E-6	-0.63215	1.6835E-6
21.00000	34.00000	15.00000	-2.0546	14.760	-211.52E-6	-0.58121	1.5481E-6
22.00000	34.00000	15.00000	-2.0141	14.760	-178.33E-6	-0.53090	1.4143E-6
23.00000	34.00000	15.00000	-1.9677	14.760	-148.18E-6	-0.48255	1.2858E-6
24.00000	34.00000	15.00000	-1.9153	14.760	-121.88E-6	-0.43713	1.1649E-6
25.00000	34.00000	15.00000	-1.8569	14.760	-99.650E-6	-0.39523	1.0534E-6
26.00000	34.00000	15.00000	-1.7922	14.760	-81.288E-6	-0.35709	0.0
27.00000	34.00000	15.00000	-1.7210	14.760	-66.343E-6	-0.32271	0.0
28.00000	34.00000	15.00000	-1.6431	14.760	-54.285E-6	-0.29191	0.0
29.00000	34.00000	15.00000	-1.5587	14.760	-44.593E-6	-0.26442	0.0
30.00000	34.00000	15.00000	-1.4681	14.760	-36.809E-6	-0.23992	0.0
31.00000	34.00000	15.00000	-1.3717	14.760	-30.544E-6	-0.21811	0.0
32.00000	34.00000	15.00000	-1.2707	14.760	-25.484E-6	-0.19868	0.0
33.00000	34.00000	15.00000	-1.1664	14.760	-21.380E-6	-0.18135	0.0
34.00000	34.00000	15.00000	-1.0608	14.760	-18.034E-6	-0.16587	0.0
35.00000	34.00000	15.00000	-0.95567	14.760	-15.291E-6	-0.15202	0.0
36.00000	34.00000	15.00000	-0.85308	14.760	-13.030E-6	-0.13960	0.0
37.00000	34.00000	15.00000	-0.75481	14.760	-11.157E-6	-0.12844	0.0
38.00000	34.00000	15.00000	-0.66223	14.760	-9.5963E-6	-0.11840	0.0
39.00000	34.00000	15.00000	-0.57634	14.760	-8.2904E-6	-0.10933	0.0
40.00000	34.00000	15.00000	-0.49767	14.760	-7.1910E-6	-0.10114	0.0
41.00000	34.00000	15.00000	-0.42639	14.760	-6.2615E-6	-0.093719	0.0
42.00000	34.00000	15.00000	-0.36241	14.760	-5.4721E-6	-0.086982	0.0
43.00000	34.00000	15.00000	-0.30541	14.760	-4.7988E-6	-0.080955	0.0
44.00000	34.00000	15.00000	-0.25497	14.760	-4.2221E-6	-0.075272	0.0
45.00000	34.00000	15.00000	-0.21055	14.760	-3.7264E-6	-0.070175	0.0
46.00000	34.00000	15.00000	-0.17164	14.760	-3.2985E-6	-0.065515	0.0
47.00000	34.00000	15.00000	-0.13769	14.760	-2.9280E-6	-0.061240	0.0
48.00000	34.00000	15.00000	-0.10817	14.760	-2.6061E-6	-0.057329	0.0
49.00000	34.00000	15.00000	-0.082604	14.760	-2.3256E-6	-0.053729	0.0
50.00000	34.00000	15.00000	-0.060531	14.760	-2.0803E-6	-0.050417	0.0
51.00000	34.00000	15.00000	-0.041539	14.760	-1.8652E-6	-0.047363	0.0
52.00000	34.00000	15.00000	-0.025252	14.760	-1.6761E-6	-0.044545	0.0
53.00000	34.00000	15.00000	-0.011337	14.760	-1.5093E-6	-0.041940	0.0
54.00000	34.00000	15.00000	50				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
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Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mOD]	Calc Level Z [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-14.00000	35.00000	15.00000	-0.13893	14.760	-15.944E-6	-0.15495
	-13.00000	35.00000	15.00000	-0.17001	14.760	-18.731E-6	-0.16868
	-12.00000	35.00000	15.00000	-0.20528	14.760	-22.099E-6	-0.18393
	-11.00000	35.00000	15.00000	-0.24515	14.760	-26.182E-6	-0.20086
	-10.00000	35.00000	15.00000	-0.29001	14.760	-31.144E-6	-0.21967
	-9.00000	35.00000	15.00000	-0.34025	14.760	-37.181E-6	-0.24055
	-8.00000	35.00000	15.00000	-0.39618	14.760	-44.520E-6	-0.26369
	-7.00000	35.00000	15.00000	-0.45803	14.760	-53.415E-6	-0.28925
	-6.00000	35.00000	15.00000	-0.52589	14.760	-64.130E-6	-0.31735
	-5.00000	35.00000	15.00000	-0.59963	14.760	-76.900E-6	-0.34803
	-4.00000	35.00000	15.00000	-0.67892	14.760	-91.886E-6	-0.38118
	-3.00000	35.00000	15.00000	-0.76309	14.760	-109.09E-6	-0.41655
	-2.00000	35.00000	15.00000	-0.85117	14.760	-128.30E-6	-0.45366
	-1.00000	35.00000	15.00000	-0.94187	14.760	-149.03E-6	-0.49183
	0.00000	35.00000	15.00000	-1.0337	14.760	-170.51E-6	-0.53018
	1.00000	35.00000	15.00000	-1.1249	14.760	-191.84E-6	-0.56771
	2.00000	35.00000	15.00000	-1.2138	14.760	-212.09E-6	-0.60343
	3.00000	35.00000	15.00000	-1.2989	14.760	-230.51E-6	-0.63642
	4.00000	35.00000	15.00000	-1.3789	14.760	-246.57E-6	-0.66594
	5.00000	35.00000	15.00000	-1.4526	14.760	-259.99E-6	-0.69145
	6.00000	35.00000	15.00000	-1.5195	14.760	-270.75E-6	-0.71259
	7.00000	35.00000	15.00000	-1.5791	14.760	-278.89E-6	-0.72915
	8.00000	35.00000	15.00000	-1.6311	14.760	-284.58E-6	-0.74101
	9.00000	35.00000	15.00000	-1.6756	14.760	-287.92E-6	-0.74814
	10.00000	35.00000	15.00000	-1.7126	14.760	-289.03E-6	-0.75051
	11.00000	35.00000	15.00000	-1.7424	14.760	-287.92E-6	-0.74814
	12.00000	35.00000	15.00000	-1.7651	14.760	-284.58E-6	-0.74101
	13.00000	35.00000	15.00000	-1.7812	14.760	-278.89E-6	-0.72915
	14.00000	35.00000	15.00000	-1.7907	14.760	-270.75E-6	-0.71259
	15.00000	35.00000	15.00000	-1.7940	14.760	-259.99E-6	-0.69145
	16.00000	35.00000	15.00000	-1.7914	14.760	-246.57E-6	-0.66594
	17.00000	35.00000	15.00000	-1.7830	14.760	-230.51E-6	-0.63642
	18.00000	35.00000	15.00000	-1.7692	14.760	-212.09E-6	-0.60343
	19.00000	35.00000	15.00000	-1.7500	14.760	-191.84E-6	-0.56771
	20.00000	35.00000	15.00000	-1.7256	14.760	-170.51E-6	-0.53018
	21.00000	35.00000	15.00000	-1.6962	14.760	-149.03E-6	-0.49183
	22.00000	35.00000	15.00000	-1.6618	14.760	-128.30E-6	-0.45366
	23.00000	35.00000	15.00000	-1.6225	14.760	-109.09E-6	-0.41655
	24.00000	35.00000	15.00000	-1.5782	14.760	-91.886E-6	-0.38118
	25.00000	35.00000	15.00000	-1.5288	14.760	-76.900E-6	-0.34803
	26.00000	35.00000	15.00000	-1.4744	14.760	-64.130E-6	-0.31735
	27.00000	35.00000	15.00000	-1.4148	14.760	-53.415E-6	-0.28925
	28.00000	35.00000	15.00000	-1.3501	14.760	-44.520E-6	-0.26369
	29.00000	35.00000	15.00000	-1.2804	14.760	-37.181E-6	-0.24055
	30.00000	35.00000	15.00000	-1.2060	14.760	-31.144E-6	-0.21967
	31.00000	35.00000	15.00000	-1.1275	14.760	-26.182E-6	-0.20086
	32.00000	35.00000	15.00000	-1.0458	14.760	-22.099E-6	-0.18393
	33.00000	35.00000	15.00000	-0.96180	14.760	-18.731E-6	-0.16868
	34.00000	35.00000	15.00000	-0.87691	14.760	-15.944E-6	-0.15495
	35.00000	35.00000	15.00000	-0.79249	14.760	-13.630E-6	-0.14257
	36.00000	35.00000	15.00000	-0.70993	14.760	-11.700E-6	-0.13093
	37.00000	35.00000	15.00000	-0.63048	14.760	-10.084E-6	-0.12129
	38.00000	35.00000	15.00000	-0.55520	14.760	-8.7253E-6	-0.11214
	39.00000	35.00000	15.00000	-0.48484	14.760	-7.5780E-6	-0.10384
	40.00000	35.00000	15.00000	-0.41990	14.760	-6.6054E-6	-0.096310
	41.00000	35.00000	15.00000	-0.36058	14.760	-5.7773E-6	-0.08945
	42.00000	35.00000	15.00000	-0.30692	14.760	-5.0697E-6	-0.083206
	43.00000	35.00000	15.00000	-0.25875	14.760	-4.4627E-6	-0.077503
	44.00000	35.00000	15.00000	-0.21580	14.760	-3.9401E-6	-0.072289
	45.00000	35.00000	15.00000	-0.17775	14.760	-3.4887E-6	-0.067514
	46.00000	35.00000	15.00000	-0.14420	14.760	-3.0974E-6	-0.063130
	47.00000	35.00000	15.00000	-0.11477	14.760	-2.7572E-6	-0.059114
	48.00000	35.00000	15.00000	-0.089061	14.760	-2.4604E-6	-0.055414
	49.00000	35.00000	15.00000	-0.066690	14.760	-2.2008E-6	-0.052007
	50.00000	35.00000	15.00000	-0.047301	14.760	-1.9732E-6	-0.048864
	51.00000	35.00000	15.00000	-0.030560	14.760	-1.7729E-6	-0.045360
	52.00000	35.00000	15.00000	-0.016162	14.760	-1.5964E-6	-0.043276
	53.00000	35.00000	15.00000	-0.0038294	14.760	-1.4403E-6	-0.040789
	54.00000	35.00000	15.00000	0.0066875	14.760	-1.3020E-6	-0.038484
	55.00000	35.00000	15.00000	0.015613	14.760	-1.1792E-6	-0.036344
	-25.00000	36.00000	15.00000	0.0028284	14.760	-3.2604E-6	-0.064894
	-24.00000	36.00000	15.00000	0.021779	14.760	-3.6704E-6	-0.069359
	-23.00000	36.00000	15.00000	0.015272	14.760	-4.1426E-6	-0.074220
	-22.00000	36.00000	15.00000	0.0076244	14.760	-4.6883E-6	-0.079519
	-21.00000	36.00000	15.00000	-0.0013156	14.760	-5.3207E-6	-0.085302
	-20.00000	36.00000	15.00000	-0.0111719	14.760	-6.0561E-6	-0.091629
	-19.00000	36.00000	15.00000	-0.023776	14.760	-6.9141E-6	-0.098542
	-18.00000	36.00000	15.00000	-0.037695	14.760	-7.9185E-6	-0.10612
	-17.00000	36.00000	15.00000	-0.053706	14.760	-9.0980E-6	-0.11444
	-16.00000	36.00000	15.00000	-0.072056	14.760	-10.488E-6	-0.12358
	-15.00000	36.00000	15.00000	-0.093014	14.760	-12.131E-6	-0.13365
	-14.00000	36.00000	15.00000	-0.11687	14.760	-14.080E-6	-0.14467
	-13.00000	36.00000	15.00000	-0.14391	14.760	-16.397E-6	-0.15685
	-12.00000	36.00000	15.00000	-0.17444	14.760	-19.158E-6	-0.17025
	-11.00000	36.00000	15.00000	-0.20877	14.760	-22.454E-6	-0.18501
	-10.00000	36.00000	15.00000	-0.24718	14.760	-26.390E-6	-0.20124
	-9.00000	36.00000	15.00000	-0.28992	14.760	-31.088E-6	-0.21907
	-8.00000	36.00000	15.00000	-0.33719	14.760	-36.680E-6	-0.23861
	-7.00000	36.00000	15.00000	-0.38910	14.760	-43.307E-6	-0.25992
	-6.00000	36.00000	15.00000	-0.44564	14.760	-51.097E-6	-0.28305
	-5.00000	36.00000	15.00000	-0.50665	14.760	-60.154E-6	-0.30799
	-4.00000	36.00000	15.00000	-0.57180	14.760	-70.521E-6	-0.33452
	-3.00000	36.00000	15.00000	-0.64052	14.760	-82.150E-6	-0.36249
	-2.00000	36.00000	15.00000	-0.71205	14.760	-94.872E-6	-0.39151
	-1.00000	36.00000	15.00000	-0.78542	14.760	-108.38E-6	-0.42107
	0.00000	36.00000	15.00000	-0.85948	14.760	-122.26E-6	-0.45058
	1.00000	36.00000	15.00000	-0.93302	14.760	-136.01E-6	-0.47937
	2.00000	36.00000	15.00000	-1.0048	14.760	-149.12E-6	-0.50675
	3.00000	36.00000	15.00000	-1.0737	14.760	-161.17E-6	-0.53210
	4.00000	36.00000	15.00000	-1.1386	14.760	-171.83E-6	-0.55489
	5.00000	36.00000	15.00000	-1.1998	14.760	-180.89E-6	-0.57469
	6.00000	36.00000	15.00000	-1.2538	14.760	-188.26E-6	-0.59119
	7.00000	36.00000	15.00000	-1.3029	14.760	-193.94E-6	-0.60419
	8.00000	36.00000	15.00000	-1.3461	14.760	-197.95E-6	-0.61354
	9.00000	36.00000	15.00000	-1.3833	14.760	-200.32E-6	-0.61918
	10.00000	36.00000	15.00000	-1.4143	14.760	-201.11E-6	-0.62100
	11.00000	36.00000	15.00000	-1.4395	14.760	-200.32E-6	-0.61918
	12.00000	36.00000	15.00000	-1.4588	14.760	-197.95E-6	-0.61354
	13.00000	36.00000	15.00000	-1.4724	14.760	-193.94E-6	-0.60419
	14.00000	36.00000	15.00000	-1.4807	14.760	-188.26E-6	-0.59119
	15.00000	36.00000	15.00000	-1.4837	14.760	-180.89E-6	-0.57469
	16.00000	36.00000	15.00000	-1.4816	14.760	-171.83E-6	-0.55489
	17.00000	36.00000	15.00000	-1.4747	14.760	-161.17E-6	-0.53210
	18.00000	36.00000	15.00000	-1.4631	14.760	-149.12E-6	-0.50675
	19.00000	36.00000	15.00000	-1.4469	14.760	-136.01E-6	-0.47937
	20.00000	36.00000	15.00000	-1.4263	14.760	-122.26E-6	-0.45058
	21.00000	36.00000	15.00000	-1.4015	14.760	-108.38E-6	-0.42107
	22.00000	36.00000	15.00000	-1.3724	14.760	-94.872E-6	-0.39151
	23.00000	36.00000	15.00000	-1.3391	14.760	-82.150E-6	-0.36249
	24.00000	36.00000	15.00000	-1.3017	14.760	-70.521E-6	-0.33452
	25.00000	36.00000	15.00000	-1.2601	14.760	-60.154E-6	-0.30799
	26.00000	36.00000	15.00000	-1.2144	14.760	-51.097E-6	-0.28305
	27.00000	36.00000	15.00000	-1.1646	14.760	-43.307E-6	-0.25992
	28.00000	36.00000	15.00000	-1.1108	14.760	-36.680E-6	-0.23861
	29.00000	36.00000	15.00000	-1.0531	14.760	-31.088E-6	-0.21907
	30.00000	36.000					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses
X [m]	Y [m]	Z [Level] [mOD]	Calc Level [mOD] Vert Stress [kN/m ²] Sum Princ [kN/m ²] Vert Strain [-]
35.00000	36.00000	15.00000	-0.65632 14.760 -12.131E-6 -0.13362 0.0
36.00000	36.00000	15.00000	-0.58945 14.760 -10.488E-6 -0.12358 0.0
37.00000	36.00000	15.00000	-0.52488 14.760 -9.0980E-6 -0.11444 0.0
38.00000	36.00000	15.00000	-0.46341 14.760 -7.9185E-6 -0.10612 0.0
39.00000	36.00000	15.00000	-0.40562 14.760 -6.9141E-6 -0.098542 0.0
40.00000	36.00000	15.00000	-0.35194 14.760 -6.0561E-6 -0.091624 0.0
41.00000	36.00000	15.00000	-0.30257 14.760 -5.3207E-6 -0.085302 0.0
42.00000	36.00000	15.00000	-0.25760 14.760 -4.6883E-6 -0.079519 0.0
43.00000	36.00000	15.00000	-0.21696 14.760 -4.1426E-6 -0.074220 0.0
44.00000	36.00000	15.00000	-0.18050 14.760 -3.6704E-6 -0.069359 0.0
45.00000	36.00000	15.00000	-0.14800 14.760 -3.2604E-6 -0.064894 0.0
46.00000	36.00000	15.00000	-0.11919 14.760 -2.9035E-6 -0.060787 0.0
47.00000	36.00000	15.00000	-0.093780 14.760 -2.5919E-6 -0.057004 0.0
48.00000	36.00000	15.00000	-0.071479 14.760 -2.3190E-6 -0.053516 0.0
49.00000	36.00000	15.00000	-0.051994 14.760 -2.0795E-6 -0.050295 0.0
50.00000	36.00000	15.00000	-0.035043 14.760 -1.8606E-6 -0.047317 0.0
51.00000	36.00000	15.00000	-0.020360 14.760 -1.6826E-6 -0.044561 0.0
52.00000	36.00000	15.00000	-0.0076974 14.760 -1.5182E-6 -0.042007 0.0
53.00000	36.00000	15.00000	0.0031736 14.760 -1.3724E-6 -0.039637 0.0
54.00000	36.00000	15.00000	0.012460 14.760 -1.2428E-6 -0.037436 0.0
55.00000	36.00000	15.00000	0.020351 14.760 -1.1275E-6 -0.035391 0.0
-25.00000	37.00000	15.00000	0.030131 14.760 -3.0423E-6 -0.062322 0.0
-24.00000	37.00000	15.00000	0.025246 14.760 -3.4136E-6 -0.066492 0.0
-23.00000	37.00000	15.00000	0.019470 14.760 -3.8393E-6 -0.071016 0.0
-22.00000	37.00000	15.00000	0.012684 14.760 -4.3286E-6 -0.075932 0.0
-21.00000	37.00000	15.00000	0.0045580 14.760 -4.8924E-6 -0.081278 0.0
-20.00000	37.00000	15.00000	-0.0044530 14.760 -5.5439E-6 -0.087097 0.0
-19.00000	37.00000	15.00000	-0.015108 14.760 -6.2989E-6 -0.093440 0.0
-18.00000	37.00000	15.00000	-0.027382 14.760 -7.1760E-6 -0.10036 0.0
-17.00000	37.00000	15.00000	-0.041462 14.760 -8.1978E-6 -0.10791 0.0
-16.00000	37.00000	15.00000	-0.057550 14.760 -9.3911E-6 -0.11616 0.0
-15.00000	37.00000	15.00000	-0.075862 14.760 -10.788E-6 -0.12518 0.0
-14.00000	37.00000	15.00000	-0.096621 14.760 -12.426E-6 -0.13504 0.0
-13.00000	37.00000	15.00000	-0.12006 14.760 -14.351E-6 -0.14582 0.0
-12.00000	37.00000	15.00000	-0.14640 14.760 -16.615E-6 -0.15761 0.0
-11.00000	37.00000	15.00000	-0.15586 14.760 -19.279E-6 -0.17047 0.0
-10.00000	37.00000	15.00000	-0.20866 14.760 -22.410E-6 -0.18450 0.0
-9.00000	37.00000	15.00000	-0.24494 14.760 -26.083E-6 -0.19977 0.0
-8.00000	37.00000	15.00000	-0.28482 14.760 -30.375E-6 -0.21632 0.0
-7.00000	37.00000	15.00000	-0.32835 14.760 -35.362E-6 -0.23418 0.0
-6.00000	37.00000	15.00000	-0.37547 14.760 -41.106E-6 -0.25334 0.0
-5.00000	37.00000	15.00000	-0.42601 14.760 -47.647E-6 -0.27375 0.0
-4.00000	37.00000	15.00000	-0.47965 14.760 -54.985E-6 -0.29526 0.0
-3.00000	37.00000	15.00000	-0.53594 14.760 -63.064E-6 -0.31769 0.0
-2.00000	37.00000	15.00000	-0.59427 14.760 -71.762E-6 -0.34073 0.0
-1.00000	37.00000	15.00000	-0.65389 14.760 -80.887E-6 -0.36402 0.0
0.00000	37.00000	15.00000	-0.71395 14.760 -90.189E-6 -0.38714 1.0320E-6
1.00000	37.00000	15.00000	-0.77355 14.760 -99.381E-6 -0.40961 1.0918E-6
2.00000	37.00000	15.00000	-0.83176 14.760 -108.17E-6 -0.43097 1.1487E-6
3.00000	37.00000	15.00000	-0.88772 14.760 -116.30E-6 -0.45076 1.2014E-6
4.00000	37.00000	15.00000	-0.94067 14.760 -123.56E-6 -0.46859 1.2489E-6
5.00000	37.00000	15.00000	-0.98995 14.760 -129.80E-6 -0.48413 1.2903E-6
6.00000	37.00000	15.00000	-1.0351 14.760 -134.95E-6 -0.49713 1.3249E-6
7.00000	37.00000	15.00000	-1.0757 14.760 -138.95E-6 -0.50741 1.3523E-6
8.00000	37.00000	15.00000	-1.1115 14.760 -141.80E-6 -0.51483 1.3720E-6
9.00000	37.00000	15.00000	-1.1424 14.760 -143.50E-6 -0.51931 1.3840E-6
10.00000	37.00000	15.00000	-1.1684 14.760 -144.07E-6 -0.52081 1.3879E-6
11.00000	37.00000	15.00000	-1.1896 14.760 -143.50E-6 -0.51931 1.3840E-6
12.00000	37.00000	15.00000	-1.2059 14.760 -141.80E-6 -0.51483 1.3720E-6
13.00000	37.00000	15.00000	-1.2175 14.760 -138.95E-6 -0.50741 1.3523E-6
14.00000	37.00000	15.00000	-1.2246 14.760 -134.95E-6 -0.49713 1.3249E-6
15.00000	37.00000	15.00000	-1.2272 14.760 -129.80E-6 -0.48413 1.2903E-6
16.00000	37.00000	15.00000	-1.2256 14.760 -123.56E-6 -0.46859 1.2489E-6
17.00000	37.00000	15.00000	-1.2198 14.760 -116.30E-6 -0.45076 1.2014E-6
18.00000	37.00000	15.00000	-1.2101 14.760 -108.17E-6 -0.43097 1.1487E-6
19.00000	37.00000	15.00000	-1.1965 14.760 -99.381E-6 -0.40961 1.0918E-6
20.00000	37.00000	15.00000	-1.1791 14.760 -90.189E-6 -0.38714 1.0320E-6
21.00000	37.00000	15.00000	-1.1581 14.760 -80.887E-6 -0.36402 0.0
22.00000	37.00000	15.00000	-1.1335 14.760 -71.762E-6 -0.34073 0.0
23.00000	37.00000	15.00000	-1.1054 14.760 -63.064E-6 -0.31769 0.0
24.00000	37.00000	15.00000	-1.0739 14.760 -54.985E-6 -0.29526 0.0
25.00000	37.00000	15.00000	-1.0389 14.760 -47.647E-6 -0.27375 0.0
26.00000	37.00000	15.00000	-1.0005 14.760 -41.106E-6 -0.25334 0.0
27.00000	37.00000	15.00000	-0.95892 14.760 -35.362E-6 -0.23418 0.0
28.00000	37.00000	15.00000	-0.91415 14.760 -30.375E-6 -0.21632 0.0
29.00000	37.00000	15.00000	-0.86443 14.760 -26.083E-6 -0.19977 0.0
30.00000	37.00000	15.00000	-0.81606 14.760 -22.410E-6 -0.18450 0.0
31.00000	37.00000	15.00000	-0.76344 14.760 -19.279E-6 -0.17047 0.0
32.00000	37.00000	15.00000	-0.70911 14.760 -16.615E-6 -0.15761 0.0
33.00000	37.00000	15.00000	-0.65367 14.760 -14.351E-6 -0.14582 0.0
34.00000	37.00000	15.00000	-0.59782 14.760 -12.426E-6 -0.13504 0.0
35.00000	37.00000	15.00000	-0.54231 14.760 -10.788E-6 -0.12518 0.0
36.00000	37.00000	15.00000	-0.48786 14.760 -9.3911E-6 -0.11616 0.0
37.00000	37.00000	15.00000	-0.43515 14.760 -8.1978E-6 -0.10791 0.0
38.00000	37.00000	15.00000	-0.38478 14.760 -7.1760E-6 -0.10036 0.0
39.00000	37.00000	15.00000	-0.33721 14.760 -6.2989E-6 -0.093440 0.0
40.00000	37.00000	15.00000	-0.29277 14.760 -5.5439E-6 -0.087097 0.0
41.00000	37.00000	15.00000	-0.25167 14.760 -4.8924E-6 -0.081278 0.0
42.00000	37.00000	15.00000	-0.21401 14.760 -4.3286E-6 -0.075932 0.0
43.00000	37.00000	15.00000	-0.17978 14.760 -3.8393E-6 -0.071016 0.0
44.00000	37.00000	15.00000	-0.14889 14.760 -3.4136E-6 -0.066492 0.0
45.00000	37.00000	15.00000	-0.12121 14.760 -3.0423E-6 -0.062322 0.0
46.00000	37.00000	15.00000	-0.096541 14.760 -2.7175E-6 -0.058476 0.0
47.00000	37.00000	15.00000	-0.074686 14.760 -2.4327E-6 -0.054924 0.0
48.00000	37.00000	15.00000	-0.055421 14.760 -2.1824E-6 -0.051639 0.0
49.00000	37.00000	15.00000	-0.038524 14.760 -1.9618E-6 -0.048591 0.0
50.00000	37.00000	15.00000	-0.023773 14.760 -1.7671E-6 -0.045782 0.0
51.00000	37.00000	15.00000	-0.010957 14.760 -1.5947E-6 -0.043170 0.0
52.00000	37.00000	15.00000	122.87E-6 14.760 -1.4418E-6 -0.040743 0.0
53.00000	37.00000	15.00000	0.0096543 14.760 -1.3059E-6 -0.038488 0.0
54.00000	37.00000	15.00000	0.0178009 14.760 -1.1848E-6 -0.036389 0.0
55.00000	37.00000	15.00000	0.024744 14.760 -1.0767E-6 -0.034435 0.0
-25.00000	38.00000	15.00000	0.032773 14.760 -2.8347E-6 -0.059808 0.0
-24.00000	38.00000	15.00000	0.028466 14.760 -3.1704E-6 -0.063696 0.0
-23.00000	38.00000	15.00000	0.023370 14.760 -3.5532E-6 -0.067902 0.0
-22.00000	38.00000	15.00000	0.017384 14.760 -3.9910E-6 -0.072455 0.0
-21.00000	38.00000	15.00000	0.010395 14.760 -4.4925E-6 -0.077390 0.0
-20.00000	38.00000	15.00000	0.0022821 14.760 -5.0686E-6 -0.082741 0.0
-19.00000	38.00000	15.00000	-0.0070879 14.760 -5.7315E-6 -0.088548 0.0
-18.00000	38.00000	15.00000	-0.017859 14.760 -6.4961E-6 -0.094854 0.0
-17.00000	38.00000	15.00000	-0.030195 14.760 -7.3798E-6 -0.10171 0.0
-16.00000	38.00000	15.00000	-0.044230 14.760 -8.4028E-6 -0.10915 0.0
-15.00000	38.00000	15.00000	-0.060164 14.760 -9.5891E-6 -0.11724 0.0
-14.00000	38.00000	15.00000	-0.078162 14.760 -10.966E-6 -0.12604 0.0
-13.00000	38.00000	15.00000	-0.098401 14.760 -12.566E-6 -0.13559 0.0
-12.00000	38.00000	15.00000	-0.12105 14.760 -14.424E-6 -0.14595 0.0
-11.00000	38.00000	15.00000	-0.14627 14.760 -16.581E-6 -0.15719 0.0
-10.00000	38.00000	15.00000	-0.17420 14.760 -19.081E-6 -0.16933 0.0
-9.00000	38.00000	15.00000	-0.20494 14.760 -21.968E-6 -0.18243 0.0
-8.00000	38.00000	15.00000	-0.23855 14.760 -25.288E-6 -0.19651 0.0
-7.00000	38.00000	15.00000	-0.27503 14.760 -29.079E-6 -0.21153 0.0
-6.00000	38.00000	15.00000	-0.31430 14.760 -33.371E-6 -0.22754 0.0
-5.00000	38.00000	15.00000	-0.35620 14.760 -38.175E-6 -0.24439 0.0
-4.00000	38.00000	15.00000	-0.40045 14.760 -43.474E-6 -0.26199 0.0
-3.00000	38.00000	15.00000	-0.44667 14.760 -49.221E-6 -0.28017 0.0
-2.00000	38.00000	15.00000	-0.49440 14.760 -55.329E-6 -0.29871 0.0
-1.00000	38.00000	15.00000	-0.54303 14.760 -61.674E-6 -0.31732 0.0
0.00000	38.00000	15.00000	-0.59194 14.760 -68.099E-6 -0.33570 0.0
1.00000	38.00000	15.00000	-0.64044 14.760 -74.431E-6 -0.35351 0.0
2.00000	38.00000	15.00000	-0.68783 14.760 -80.492E-6 -0.37040 0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	3.00000	38.00000	15.00000	-0.73346	14.760	-86.121E-6	1.0292E-6
	4.00000	38.00000	15.00000	-0.77672	14.760	-91.179E-6	1.0668E-6
	5.00000	38.00000	15.00000	-0.81711	14.760	-95.565E-6	1.0996E-6
	6.00000	38.00000	15.00000	-0.85422	14.760	-99.207E-6	1.1272E-6
	7.00000	38.00000	15.00000	-0.88773	14.760	-102.06E-6	1.1490E-6
	8.00000	38.00000	15.00000	-0.91743	14.760	-104.11E-6	1.1648E-6
	9.00000	38.00000	15.00000	-0.94318	14.760	-105.34E-6	1.1743E-6
	10.00000	38.00000	15.00000	-0.96492	14.760	-105.75E-6	1.1775E-6
	11.00000	38.00000	15.00000	-0.98264	14.760	-105.34E-6	1.1743E-6
	12.00000	38.00000	15.00000	-0.99638	14.760	-104.11E-6	1.1648E-6
	13.00000	38.00000	15.00000	-1.0062	14.760	-102.06E-6	1.1490E-6
	14.00000	38.00000	15.00000	-1.0122	14.760	-99.207E-6	1.1272E-6
	15.00000	38.00000	15.00000	-1.0145	14.760	-95.565E-6	1.0996E-6
	16.00000	38.00000	15.00000	-1.0132	14.760	-91.179E-6	1.0668E-6
	17.00000	38.00000	15.00000	-1.0084	14.760	-86.121E-6	1.0292E-6
	18.00000	38.00000	15.00000	-1.0002	14.760	-80.492E-6	0.0
	19.00000	38.00000	15.00000	-0.98877	14.760	-74.431E-6	0.0
	20.00000	38.00000	15.00000	-0.97414	14.760	-68.099E-6	0.0
	21.00000	38.00000	15.00000	-0.95640	14.760	-61.674E-6	0.0
	22.00000	38.00000	15.00000	-0.93566	14.760	-55.329E-6	0.0
	23.00000	38.00000	15.00000	-0.91196	14.760	-49.221E-6	0.0
	24.00000	38.00000	15.00000	-0.88538	14.760	-43.474E-6	0.0
	25.00000	38.00000	15.00000	-0.85599	14.760	-38.175E-6	0.0
	26.00000	38.00000	15.00000	-0.82386	14.760	-33.371E-6	0.0
	27.00000	38.00000	15.00000	-0.78909	14.760	-29.079E-6	0.0
	28.00000	38.00000	15.00000	-0.75193	14.760	-25.288E-6	0.0
	29.00000	38.00000	15.00000	-0.71229	14.760	-21.968E-6	0.0
	30.00000	38.00000	15.00000	-0.67071	14.760	-19.081E-6	0.0
	31.00000	38.00000	15.00000	-0.62744	14.760	-16.581E-6	0.0
	32.00000	38.00000	15.00000	-0.58289	14.760	-14.424E-6	0.0
	33.00000	38.00000	15.00000	-0.53754	14.760	-12.566E-6	0.0
	34.00000	38.00000	15.00000	-0.49192	14.760	-10.966E-6	0.0
	35.00000	38.00000	15.00000	-0.44658	14.760	-9.5891E-6	0.0
	36.00000	38.00000	15.00000	-0.40206	14.760	-8.4028E-6	0.0
	37.00000	38.00000	15.00000	-0.35888	14.760	-7.3798E-6	0.0
	38.00000	38.00000	15.00000	-0.31748	14.760	-6.4961E-6	0.0
	39.00000	38.00000	15.00000	-0.27823	14.760	-5.7315E-6	0.0
	40.00000	38.00000	15.00000	-0.24140	14.760	-5.0686E-6	0.0
	41.00000	38.00000	15.00000	-0.20718	14.760	-4.4925E-6	0.0
	42.00000	38.00000	15.00000	-0.17566	14.760	-3.9910E-6	0.0
	43.00000	38.00000	15.00000	-0.14686	14.760	-3.5532E-6	0.0
	44.00000	38.00000	15.00000	-0.12074	14.760	-3.1704E-6	0.0
	45.00000	38.00000	15.00000	-0.097221	14.760	-2.8347E-6	0.0
	46.00000	38.00000	15.00000	-0.076168	14.760	-2.5398E-6	0.0
	47.00000	38.00000	15.00000	-0.057434	14.760	-2.2801E-6	0.0
	48.00000	38.00000	15.00000	-0.040856	14.760	-2.0510E-6	0.0
	49.00000	38.00000	15.00000	-0.026263	14.760	-1.8484E-6	0.0
	50.00000	38.00000	15.00000	-0.013484	14.760	-1.6688E-6	0.0
	51.00000	38.00000	15.00000	-0.0023524	14.760	-1.5093E-6	0.0
	52.00000	38.00000	15.00000	0.0072935	14.760	-1.3674E-6	0.0
	53.00000	38.00000	15.00000	0.0105605	14.760	-1.2410E-6	0.0
	54.00000	38.00000	15.00000	0.022724	14.760	-1.1280E-6	0.0
	55.00000	38.00000	15.00000	0.028781	14.760	-1.0270E-6	0.0
	-25.00000	39.00000	15.00000	0.035204	14.760	-2.6380E-6	0.0
	-24.00000	39.00000	15.00000	0.031434	14.760	-2.9408E-6	0.0
	-23.00000	39.00000	15.00000	0.026967	14.760	-3.2845E-6	0.0
	-22.00000	39.00000	15.00000	0.021717	14.760	-3.6755E-6	0.0
	-21.00000	39.00000	15.00000	0.015590	14.760	-4.1209E-6	0.0
	-20.00000	39.00000	15.00000	0.0084818	14.760	-4.6292E-6	0.0
	-19.00000	39.00000	15.00000	283.21E-6	14.760	-5.2105E-6	0.0
	-18.00000	39.00000	15.00000	-0.0091245	14.760	-5.8762E-6	0.0
	-17.00000	39.00000	15.00000	-0.019867	14.760	-6.6395E-6	0.0
	-16.00000	39.00000	15.00000	-0.032075	14.760	-7.5159E-6	0.0
	-15.00000	39.00000	15.00000	-0.045885	14.760	-8.5228E-6	0.0
	-14.00000	39.00000	15.00000	-0.061432	14.760	-9.6804E-6	0.0
	-13.00000	39.00000	15.00000	-0.078950	14.760	-11.013E-6	0.0
	-12.00000	39.00000	15.00000	-0.098267	14.760	-12.539E-6	0.0
	-11.00000	39.00000	15.00000	-0.11979	14.760	-14.291E-6	0.0
	-10.00000	39.00000	15.00000	-0.14353	14.760	-16.295E-6	0.0
	-9.00000	39.00000	15.00000	-0.16953	14.760	-18.578E-6	0.0
	-8.00000	39.00000	15.00000	-0.19782	14.760	-21.165E-6	0.0
	-7.00000	39.00000	15.00000	-0.22837	14.760	-24.077E-6	0.0
	-6.00000	39.00000	15.00000	-0.26111	14.760	-27.324E-6	0.0
	-5.00000	39.00000	15.00000	-0.29587	14.760	-30.905E-6	0.0
	-4.00000	39.00000	15.00000	-0.33243	14.760	-34.801E-6	0.0
	-3.00000	39.00000	15.00000	-0.37048	14.760	-38.974E-6	0.0
	-2.00000	39.00000	15.00000	-0.40962	14.760	-43.362E-6	0.0
	-1.00000	39.00000	15.00000	-0.44943	14.760	-47.881E-6	0.0
	0.00000	39.00000	15.00000	-0.48939	14.760	-52.432E-6	0.0
	1.00000	39.00000	15.00000	-0.52898	14.760	-56.903E-6	0.0
	2.00000	39.00000	15.00000	-0.56768	14.760	-61.184E-6	0.0
	3.00000	39.00000	15.00000	-0.60498	14.760	-65.167E-6	0.0
	4.00000	39.00000	15.00000	-0.64041	14.760	-68.762E-6	0.0
	5.00000	39.00000	15.00000	-0.67357	14.760	-71.896E-6	0.0
	6.00000	39.00000	15.00000	-0.70412	14.760	-74.513E-6	0.0
	7.00000	39.00000	15.00000	-0.73180	14.760	-76.577E-6	0.0
	8.00000	39.00000	15.00000	-0.75640	14.760	-78.064E-6	0.0
	9.00000	39.00000	15.00000	-0.77781	14.760	-78.960E-6	1.0063E-6
	10.00000	39.00000	15.00000	-0.79594	14.760	-79.260E-6	1.0089E-6
	11.00000	39.00000	15.00000	-0.81076	14.760	-78.960E-6	1.0063E-6
	12.00000	39.00000	15.00000	-0.82230	14.760	-78.064E-6	0.0
	13.00000	39.00000	15.00000	-0.83058	14.760	-76.577E-6	0.0
	14.00000	39.00000	15.00000	-0.83567	14.760	-74.513E-6	0.0
	15.00000	39.00000	15.00000	-0.83765	14.760	-71.896E-6	0.0
	16.00000	39.00000	15.00000	-0.83658	14.760	-68.762E-6	0.0
	17.00000	39.00000	15.00000	-0.83256	14.760	-65.167E-6	0.0
	18.00000	39.00000	15.00000	-0.82569	14.760	-61.184E-6	0.0
	19.00000	39.00000	15.00000	-0.81603	14.760	-56.903E-6	0.0
	20.00000	39.00000	15.00000	-0.80369	14.760	-52.432E-6	0.0
	21.00000	39.00000	15.00000	-0.78874	14.760	-47.881E-6	0.0
	22.00000	39.00000	15.00000	-0.77124	14.760	-43.362E-6	0.0
	23.00000	39.00000	15.00000	-0.75128	14.760	-38.974E-6	0.0
	24.00000	39.00000	15.00000	-0.72892	14.760	-34.801E-6	0.0
	25.00000	39.00000	15.00000	-0.70425	14.760	-30.905E-6	0.0
	26.00000	39.00000	15.00000	-0.67733	14.760	-27.324E-6	0.0
	27.00000	39.00000	15.00000	-0.64830	14.760	-24.077E-6	0.0
	28.00000	39.00000	15.00000	-0.61729	14.760	-21.165E-6	0.0
	29.00000	39.00000	15.00000	-0.58448	14.760	-18.578E-6	0.0
	30.00000	39.00000	15.00000	-0.55010	14.760	-16.295E-6	0.0
	31.00000	39.00000	15.00000	-0.51444	14.760	-14.291E-6	0.0
	32.00000	39.00000	15.00000	-0.47781	14.760	-12.539E-6	0.0
	33.00000	39.00000	15.00000	-0.44059	14.760	-11.011E-6	0.0
	34.00000	39.00000	15.00000	-0.40319	14.760	-9.6804E-6	0.0
	35.00000	39.00000	15.00000	-0.36602	14.760	-8.5228E-6	0.0
	36.00000	39.00000	15.00000	-0.32950	14.760	-7.5159E-6	0.0
	37.00000	39.00000	15.00000	-0.29402	14.760	-6.6395E-6	0.0
	38.00000	39.00000	15.00000	-0.25992	14.760	-5.8762E-6	0.0
	39.00000	39.00000	15.00000	-0.22748	14.760	-5.2105E-6	0.0
	40.00000	39.00000	15.00000	-0.19693	14.760	-4.6292E-6	0.0
	41.00000	39.00000	15.00000	-0.16842	14.760	-4.1209E-6	0.0
	42.00000	39.00000	15.00000	-0.14205	14.760	-3.6755E-6	0.0
	43.00000	39.00000	15.00000	-0.11785	14.760	-3.2845E-6	0.0
	44.00000	39.00000	15.00000	-0.095805	14.760	-2.9408E-6	0.0
	45.00000	39.00000	15.00000	-0.075867	14.760	-2.6380E-6	0.0
	46.00000	39.00000	15.00000	-0.057948	14.760	-2.3708E-6	0.0
	47.00000	39.00000	15.00000	-0.041943	14.760	-2.1345E-6	0.0
	48.00000	39.00000	15.00000	-0.027729	14.760	-1.9251E-6	0.0
	49.00000	39.00000	15.00000	-0.015178	14.760	-1.7393E-6	0.0
	50.00000	39.00000	15.00000	-0.004157			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
52.00000	39.00000	15.00000	0.013820	14.760	-1.2954E-6	-0.038247	0.0
53.00000	39.00000	15.00000	0.021028	14.760	-1.1779E-6	-0.036212	0.0
54.00000	39.00000	15.00000	0.027205	14.760	-1.0727E-6	-0.034311	0.0
55.00000	39.00000	15.00000	0.032461	14.760	0.0	-0.032534	0.0
-25.00000	40.00000	15.00000	0.037423	14.760	-2.4524E-6	-0.054975	0.0
-24.00000	40.00000	15.00000	0.034147	14.760	-2.7251E-6	-0.058344	0.0
-23.00000	40.00000	15.00000	0.030259	14.760	-3.0331E-6	-0.061966	0.0
-22.00000	40.00000	15.00000	0.025684	14.760	-3.3817E-6	-0.065861	0.0
-21.00000	40.00000	15.00000	0.020343	14.760	-3.7766E-6	-0.070052	0.0
-20.00000	40.00000	15.00000	0.014149	14.760	-4.2247E-6	-0.074563	0.0
-19.00000	40.00000	15.00000	0.0070129	14.760	-4.7338E-6	-0.079419	0.0
-18.00000	40.00000	15.00000	-0.0011643	14.760	-5.3128E-6	-0.084647	0.0
-17.00000	40.00000	15.00000	-0.010484	14.760	-5.9717E-6	-0.090274	0.0
-16.00000	40.00000	15.00000	-0.021051	14.760	-6.7222E-6	-0.096328	0.0
-15.00000	40.00000	15.00000	-0.032972	14.760	-7.5772E-6	-0.10284	0.0
-14.00000	40.00000	15.00000	-0.046353	14.760	-8.5509E-6	-0.10984	0.0
-13.00000	40.00000	15.00000	-0.061294	14.760	-9.6591E-6	-0.11734	0.0
-12.00000	40.00000	15.00000	-0.077890	14.760	-10.918E-6	-0.12539	0.0
-11.00000	40.00000	15.00000	-0.096219	14.760	-12.346E-6	-0.13398	0.0
-10.00000	40.00000	15.00000	-0.11634	14.760	-13.960E-6	-0.14315	0.0
-9.00000	40.00000	15.00000	-0.13900	14.760	-15.776E-6	-0.15288	0.0
-8.00000	40.00000	15.00000	-0.16208	14.760	-17.808E-6	-0.16318	0.0
-7.00000	40.00000	15.00000	-0.18766	14.760	-20.066E-6	-0.17401	0.0
-6.00000	40.00000	15.00000	-0.21495	14.760	-22.551E-6	-0.18533	0.0
-5.00000	40.00000	15.00000	-0.24382	14.760	-25.257E-6	-0.19708	0.0
-4.00000	40.00000	15.00000	-0.27405	14.760	-28.168E-6	-0.20917	0.0
-3.00000	40.00000	15.00000	-0.30542	14.760	-31.252E-6	-0.22148	0.0
-2.00000	40.00000	15.00000	-0.33760	14.760	-34.465E-6	-0.23386	0.0
-1.00000	40.00000	15.00000	-0.37025	14.760	-37.751E-6	-0.24617	0.0
0.00000	40.00000	15.00000	-0.40299	14.760	-41.043E-6	-0.25821	0.0
1.00000	40.00000	15.00000	-0.43540	14.760	-44.268E-6	-0.26980	0.0
2.00000	40.00000	15.00000	-0.46709	14.760	-47.353E-6	-0.28076	0.0
3.00000	40.00000	15.00000	-0.49764	14.760	-50.226E-6	-0.29088	0.0
4.00000	40.00000	15.00000	-0.52671	14.760	-52.826E-6	-0.30002	0.0
5.00000	40.00000	15.00000	-0.55397	14.760	-55.100E-6	-0.30800	0.0
6.00000	40.00000	15.00000	-0.57914	14.760	-57.006E-6	-0.31471	0.0
7.00000	40.00000	15.00000	-0.60200	14.760	-58.515E-6	-0.32003	0.0
8.00000	40.00000	15.00000	-0.62238	14.760	-59.606E-6	-0.32389	0.0
9.00000	40.00000	15.00000	-0.64015	14.760	-60.265E-6	-0.32622	0.0
10.00000	40.00000	15.00000	-0.65525	14.760	-60.486E-6	-0.32701	0.0
11.00000	40.00000	15.00000	-0.66763	14.760	-60.265E-6	-0.32622	0.0
12.00000	40.00000	15.00000	-0.67729	14.760	-59.606E-6	-0.32389	0.0
13.00000	40.00000	15.00000	-0.68424	14.760	-58.515E-6	-0.32003	0.0
14.00000	40.00000	15.00000	-0.68853	14.760	-57.006E-6	-0.31471	0.0
15.00000	40.00000	15.00000	-0.69020	14.760	-55.100E-6	-0.30800	0.0
16.00000	40.00000	15.00000	-0.68931	14.760	-52.826E-6	-0.30002	0.0
17.00000	40.00000	15.00000	-0.68594	14.760	-50.226E-6	-0.29088	0.0
18.00000	40.00000	15.00000	-0.68015	14.760	-47.353E-6	-0.28076	0.0
19.00000	40.00000	15.00000	-0.67202	14.760	-44.268E-6	-0.26980	0.0
20.00000	40.00000	15.00000	-0.66162	14.760	-41.043E-6	-0.25821	0.0
21.00000	40.00000	15.00000	-0.64902	14.760	-37.751E-6	-0.24617	0.0
22.00000	40.00000	15.00000	-0.63428	14.760	-34.465E-6	-0.23386	0.0
23.00000	40.00000	15.00000	-0.61748	14.760	-31.252E-6	-0.22148	0.0
24.00000	40.00000	15.00000	-0.59869	14.760	-28.168E-6	-0.20917	0.0
25.00000	40.00000	15.00000	-0.57799	14.760	-25.257E-6	-0.19708	0.0
26.00000	40.00000	15.00000	-0.55546	14.760	-22.551E-6	-0.18533	0.0
27.00000	40.00000	15.00000	-0.53122	14.760	-20.066E-6	-0.17401	0.0
28.00000	40.00000	15.00000	-0.50540	14.760	-17.808E-6	-0.16318	0.0
29.00000	40.00000	15.00000	-0.47816	14.760	-15.776E-6	-0.15288	0.0
30.00000	40.00000	15.00000	-0.44970	14.760	-13.960E-6	-0.14315	0.0
31.00000	40.00000	15.00000	-0.42024	14.760	-12.346E-6	-0.13398	0.0
32.00000	40.00000	15.00000	-0.39005	14.760	-10.918E-6	-0.12539	0.0
33.00000	40.00000	15.00000	-0.35942	14.760	-9.6591E-6	-0.11734	0.0
34.00000	40.00000	15.00000	-0.32867	14.760	-8.5509E-6	-0.10984	0.0
35.00000	40.00000	15.00000	-0.29812	14.760	-7.5772E-6	-0.10284	0.0
36.00000	40.00000	15.00000	-0.26809	14.760	-6.7222E-6	-0.096328	0.0
37.00000	40.00000	15.00000	-0.23886	14.760	-5.9717E-6	-0.090274	0.0
38.00000	40.00000	15.00000	-0.21071	14.760	-5.3128E-6	-0.084647	0.0
39.00000	40.00000	15.00000	-0.18386	14.760	-4.7338E-6	-0.079419	0.0
40.00000	40.00000	15.00000	-0.15850	14.760	-4.2247E-6	-0.074563	0.0
41.00000	40.00000	15.00000	-0.13475	14.760	-3.7766E-6	-0.070052	0.0
42.00000	40.00000	15.00000	-0.11270	14.760	-3.3817E-6	-0.065861	0.0
43.00000	40.00000	15.00000	-0.092388	14.760	-3.0331E-6	-0.061966	0.0
44.00000	40.00000	15.00000	-0.073816	14.760	-2.7251E-6	-0.058344	0.0
45.00000	40.00000	15.00000	-0.056953	14.760	-2.4524E-6	-0.054975	0.0
46.00000	40.00000	15.00000	-0.041745	14.760	-2.2106E-6	-0.051840	0.0
47.00000	40.00000	15.00000	-0.028114	14.760	-1.9959E-6	-0.048920	0.0
48.00000	40.00000	15.00000	-0.015972	14.760	-1.8049E-6	-0.046200	0.0
49.00000	40.00000	15.00000	-0.0052210	14.760	-1.6348E-6	-0.043663	0.0
50.00000	40.00000	15.00000	0.0042416	14.760	-1.4829E-6	-0.041296	0.0
51.00000	40.00000	15.00000	0.012520	14.760	-1.3472E-6	-0.039080	0.0
52.00000	40.00000	15.00000	0.019716	14.760	-1.2258E-6	-0.037022	0.0
53.00000	40.00000	15.00000	0.025930	14.760	-1.1168E-6	-0.035092	0.0
54.00000	40.00000	15.00000	0.031257	14.760	-1.0190E-6	-0.033285	0.0
55.00000	40.00000	15.00000	0.035786	14.760	0.0	-0.031594	0.0
-25.00000	41.00000	15.00000	0.032427	14.760	-2.2777E-6	-0.052660	0.0
-24.00000	41.00000	15.00000	0.036606	14.760	-2.5229E-6	-0.055798	0.0
-23.00000	41.00000	15.00000	0.033246	14.760	-2.7987E-6	-0.059154	0.0
-22.00000	41.00000	15.00000	0.029287	14.760	-3.1091E-6	-0.062752	0.0
-21.00000	41.00000	15.00000	0.024660	14.760	-3.4589E-6	-0.066610	0.0
-20.00000	41.00000	15.00000	0.019295	14.760	-3.8535E-6	-0.070745	0.0
-19.00000	41.00000	15.00000	0.013117	14.760	-4.2990E-6	-0.075184	0.0
-18.00000	41.00000	15.00000	0.0060444	14.760	-4.8022E-6	-0.079940	0.0
-17.00000	41.00000	15.00000	-0.0020035	14.760	-5.3710E-6	-0.085038	0.0
-16.00000	41.00000	15.00000	-0.011111	14.760	-6.0138E-6	-0.090497	0.0
-15.00000	41.00000	15.00000	-0.021361	14.760	-6.7402E-6	-0.096339	0.0
-14.00000	41.00000	15.00000	-0.032835	14.760	-7.5602E-6	-0.10258	0.0
-13.00000	41.00000	15.00000	-0.045610	14.760	-8.4849E-6	-0.10925	0.0
-12.00000	41.00000	15.00000	-0.059753	14.760	-9.5256E-6	-0.11635	0.0
-11.00000	41.00000	15.00000	-0.075319	14.760	-10.693E-6	-0.12389	0.0
-10.00000	41.00000	15.00000	-0.092348	14.760	-11.999E-6	-0.13180	0.0
-9.00000	41.00000	15.00000	-0.11086	14.760	-13.453E-6	-0.14031	0.0
-8.00000	41.00000	15.00000	-0.13083	14.760	-15.061E-6	-0.14916	0.0
-7.00000	41.00000	15.00000	-0.15223	14.760	-16.827E-6	-0.15842	0.0
-6.00000	41.00000	15.00000	-0.17498	14.760	-18.749E-6	-0.16803	0.0
-5.00000	41.00000	15.00000	-0.19895	14.760	-20.820E-6	-0.17793	0.0
-4.00000	41.00000	15.00000	-0.22398	14.760	-23.025E-6	-0.18806	0.0
-3.00000	41.00000	15.00000	-0.24987	14.760	-25.340E-6	-0.19831	0.0
-2.00000	41.00000	15.00000	-0.27638	14.760	-27.733E-6	-0.20858	0.0
-1.00000	41.00000	15.00000	-0.30321	14.760	-30.165E-6	-0.21872	0.0
0.00000	41.00000	15.00000	-0.33009	14.760	-32.590E-6	-0.22866	0.0
1.00000	41.00000	15.00000	-0.35668	14.760	-34.958E-6	-0.23811	0.0
2.00000	41.00000	15.00000	-0.38267	14.760	-37.220E-6	-0.24707	0.0
3.00000	41.00000	15.00000	-0.40775	14.760	-39.328E-6	-0.25533	0.0
4.00000	41.00000	15.00000	-0.43163	14.760	-41.237E-6	-0.26277	0.0
5.00000	41.00000	15.00000	-0.45406	14.760	-42.910E-6	-0.26928	0.0
6.00000	41.00000	15.00000	-0.47480	14.760	-44.317E-6	-0.27475	0.0
7.00000	41.00000	15.00000	-0.49368	14.760	-45.433E-6	-0.27909	0.0
8.00000	41.00000	15.00000	-0.51055	14.760	-46.242E-6	-0.28223	0.0
9.00000	41.00000						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

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Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z [Level] [mOD]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
20.00000	41.00000	15.00000	-0.54297	14.760	-32.590E-6	-0.22862	0.0
21.00000	41.00000	15.00000	-0.53235	14.760	-30.165E-6	-0.21872	0.0
22.00000	41.00000	15.00000	-0.51995	14.760	-27.733E-6	-0.20858	0.0
23.00000	41.00000	15.00000	-0.50582	14.760	-25.340E-6	-0.19831	0.0
24.00000	41.00000	15.00000	-0.49004	14.760	-23.025E-6	-0.18806	0.0
25.00000	41.00000	15.00000	-0.47268	14.760	-20.820E-6	-0.17793	0.0
26.00000	41.00000	15.00000	-0.45384	14.760	-18.749E-6	-0.16803	0.0
27.00000	41.00000	15.00000	-0.43360	14.760	-16.827E-6	-0.15842	0.0
28.00000	41.00000	15.00000	-0.41210	14.760	-15.061E-6	-0.14916	0.0
29.00000	41.00000	15.00000	-0.38946	14.760	-13.453E-6	-0.14031	0.0
30.00000	41.00000	15.00000	-0.36587	14.760	-11.999E-6	-0.13188	0.0
31.00000	41.00000	15.00000	-0.34150	14.760	-10.693E-6	-0.12389	0.0
32.00000	41.00000	15.00000	-0.31658	14.760	-9.525E-6	-0.11635	0.0
33.00000	41.00000	15.00000	-0.29132	14.760	-8.484E-6	-0.10925	0.0
34.00000	41.00000	15.00000	-0.26599	14.760	-7.560E-6	-0.10258	0.0
35.00000	41.00000	15.00000	-0.24082	14.760	-6.740E-6	-0.09639	0.0
36.00000	41.00000	15.00000	-0.21606	14.760	-6.013E-6	-0.09049	0.0
37.00000	41.00000	15.00000	-0.19194	14.760	-5.371E-6	-0.08503	0.0
38.00000	41.00000	15.00000	-0.16868	14.760	-4.802E-6	-0.07994	0.0
39.00000	41.00000	15.00000	-0.14644	14.760	-4.290E-6	-0.07518	0.0
40.00000	41.00000	15.00000	-0.12517	14.760	-3.853E-6	-0.07074	0.0
41.00000	41.00000	15.00000	-0.10559	14.760	-3.458E-6	-0.06610	0.0
42.00000	41.00000	15.00000	-0.08716	14.760	-3.109E-6	-0.06275	0.0
43.00000	41.00000	15.00000	-0.07013	14.760	-2.798E-6	-0.05915	0.0
44.00000	41.00000	15.00000	-0.05451	14.760	-2.522E-6	-0.05579	0.0
45.00000	41.00000	15.00000	-0.04021	14.760	-2.277E-6	-0.05261	0.0
46.00000	41.00000	15.00000	-0.02740	14.760	-2.059E-6	-0.04973	0.0
47.00000	41.00000	15.00000	-0.01583	14.760	-1.864E-6	-0.04701	0.0
48.00000	41.00000	15.00000	-0.00503	14.760	-1.690E-6	-0.04464	0.0
49.00000	41.00000	15.00000	0.00367	14.760	-1.535E-6	-0.04201	0.0
50.00000	41.00000	15.00000	0.01175	14.760	-1.395E-6	-0.03985	0.0
51.00000	41.00000	15.00000	0.01839	14.760	-1.270E-6	-0.03768	0.0
52.00000	41.00000	15.00000	0.02503	14.760	-1.158E-6	-0.03581	0.0
53.00000	41.00000	15.00000	0.03032	14.760	-1.057E-6	-0.03398	0.0
54.00000	41.00000	15.00000	0.03489	14.760	0.0	-0.03272	0.0
55.00000	41.00000	15.00000	0.03873	14.760	0.0	-0.03066	0.0
-25.00000	42.00000	15.00000	0.04122	14.760	-2.113E-6	-0.05043	0.0
-24.00000	42.00000	15.00000	0.03813	14.760	-2.334E-6	-0.05334	0.0
-23.00000	42.00000	15.00000	0.03593	14.760	-2.580E-6	-0.05649	0.0
-22.00000	42.00000	15.00000	0.03253	14.760	-2.856E-6	-0.05971	0.0
-21.00000	42.00000	15.00000	0.02854	14.760	-3.164E-6	-0.06320	0.0
-20.00000	42.00000	15.00000	0.02393	14.760	-3.513E-6	-0.06713	0.0
-19.00000	42.00000	15.00000	0.01861	14.760	-3.903E-6	-0.07165	0.0
-18.00000	42.00000	15.00000	0.01253	14.760	-4.340E-6	-0.07549	0.0
-17.00000	42.00000	15.00000	0.00516	14.760	-4.831E-6	-0.08011	0.0
-16.00000	42.00000	15.00000	-0.00219	14.760	-5.382E-6	-0.08503	0.0
-15.00000	42.00000	15.00000	-0.01097	14.760	-6.000E-6	-0.09028	0.0
-14.00000	42.00000	15.00000	-0.02077	14.760	-6.691E-6	-0.09585	0.0
-13.00000	42.00000	15.00000	-0.03166	14.760	-7.465E-6	-0.10178	0.0
-12.00000	42.00000	15.00000	-0.04362	14.760	-8.327E-6	-0.10805	0.0
-11.00000	42.00000	15.00000	-0.05688	14.760	-9.286E-6	-0.11468	0.0
-10.00000	42.00000	15.00000	-0.07124	14.760	-10.348E-6	-0.12166	0.0
-9.00000	42.00000	15.00000	-0.08682	14.760	-11.518E-6	-0.12898	0.0
-8.00000	42.00000	15.00000	-0.10358	14.760	-12.800E-6	-0.13663	0.0
-7.00000	42.00000	15.00000	-0.12147	14.760	-14.193E-6	-0.14457	0.0
-6.00000	42.00000	15.00000	-0.14042	14.760	-15.695E-6	-0.15277	0.0
-5.00000	42.00000	15.00000	-0.16033	14.760	-17.298E-6	-0.16117	0.0
-4.00000	42.00000	15.00000	-0.18107	14.760	-18.989E-6	-0.16971	0.0
-3.00000	42.00000	15.00000	-0.20246	14.760	-20.751E-6	-0.17831	0.0
-2.00000	42.00000	15.00000	-0.22431	14.760	-22.560E-6	-0.18688	0.0
-1.00000	42.00000	15.00000	-0.24640	14.760	-24.387E-6	-0.19532	0.0
0.00000	42.00000	15.00000	-0.26849	14.760	-26.202E-6	-0.20352	0.0
1.00000	42.00000	15.00000	-0.29034	14.760	-27.968E-6	-0.21136	0.0
2.00000	42.00000	15.00000	-0.31169	14.760	-29.653E-6	-0.21874	0.0
3.00000	42.00000	15.00000	-0.33230	14.760	-31.222E-6	-0.22554	0.0
4.00000	42.00000	15.00000	-0.35194	14.760	-32.643E-6	-0.23166	0.0
5.00000	42.00000	15.00000	-0.37041	14.760	-33.890E-6	-0.23700	0.0
6.00000	42.00000	15.00000	-0.38752	14.760	-34.940E-6	-0.24149	0.0
7.00000	42.00000	15.00000	-0.40311	14.760	-35.775E-6	-0.24505	0.0
8.00000	42.00000	15.00000	-0.41707	14.760	-36.380E-6	-0.24763	0.0
9.00000	42.00000	15.00000	-0.42929	14.760	-36.747E-6	-0.24920	0.0
10.00000	42.00000	15.00000	-0.43972	14.760	-36.870E-6	-0.24972	0.0
11.00000	42.00000	15.00000	-0.44830	14.760	-36.747E-6	-0.24920	0.0
12.00000	42.00000	15.00000	-0.45501	14.760	-36.380E-6	-0.24763	0.0
13.00000	42.00000	15.00000	-0.45986	14.760	-35.775E-6	-0.24505	0.0
14.00000	42.00000	15.00000	-0.46285	14.760	-34.940E-6	-0.24149	0.0
15.00000	42.00000	15.00000	-0.46401	14.760	-33.890E-6	-0.23700	0.0
16.00000	42.00000	15.00000	-0.46337	14.760	-32.643E-6	-0.23166	0.0
17.00000	42.00000	15.00000	-0.46098	14.760	-31.222E-6	-0.22554	0.0
18.00000	42.00000	15.00000	-0.45687	14.760	-29.653E-6	-0.21874	0.0
19.00000	42.00000	15.00000	-0.45110	14.760	-27.968E-6	-0.21136	0.0
20.00000	42.00000	15.00000	-0.44372	14.760	-26.202E-6	-0.20352	0.0
21.00000	42.00000	15.00000	-0.43478	14.760	-24.387E-6	-0.19532	0.0
22.00000	42.00000	15.00000	-0.42435	14.760	-22.560E-6	-0.18688	0.0
23.00000	42.00000	15.00000	-0.41248	14.760	-20.751E-6	-0.17831	0.0
24.00000	42.00000	15.00000	-0.39923	14.760	-18.989E-6	-0.16971	0.0
25.00000	42.00000	15.00000	-0.38469	14.760	-17.298E-6	-0.16117	0.0
26.00000	42.00000	15.00000	-0.36893	14.760	-15.695E-6	-0.15277	0.0
27.00000	42.00000	15.00000	-0.35204	14.760	-14.193E-6	-0.14457	0.0
28.00000	42.00000	15.00000	-0.33412	14.760	-12.800E-6	-0.13663	0.0
29.00000	42.00000	15.00000	-0.31531	14.760	-11.518E-6	-0.12898	0.0
30.00000	42.00000	15.00000	-0.29574	14.760	-10.348E-6	-0.12166	0.0
31.00000	42.00000	15.00000	-0.27556	14.760	-9.286E-6	-0.11468	0.0
32.00000	42.00000	15.00000	-0.25495	14.760	-8.327E-6	-0.10805	0.0
33.00000	42.00000	15.00000	-0.23409	14.760	-7.465E-6	-0.10178	0.0
34.00000	42.00000	15.00000	-0.21218	14.760	-6.691E-6	-0.09585	0.0
35.00000	42.00000	15.00000	-0.19241	14.760	-6.000E-6	-0.09028	0.0
36.00000	42.00000	15.00000	-0.17197	14.760	-5.382E-6	-0.08503	0.0
37.00000	42.00000	15.00000	-0.15205	14.760	-4.831E-6	-0.08011	0.0
38.00000	42.00000	15.00000	-0.13279	14.760	-4.340E-6	-0.07549	0.0
39.00000	42.00000	15.00000	-0.11486	14.760	-3.903E-6	-0.07165	0.0
40.00000	42.00000	15.00000	-0.09686	14.760	-3.513E-6	-0.06713	0.0
41.00000	42.00000	15.00000	-0.08038	14.760	-3.166E-6	-0.06320	0.0
42.00000	42.00000	15.00000	-0.06502	14.760	-2.856E-6	-0.05971	0.0
43.00000	42.00000	15.00000	-0.05074	14.760	-2.580E-6	-0.05649	0.0
44.00000	42.00000	15.00000	-0.03763	14.760	-2.334E-6	-0.05334	0.0
45.00000	42.00000	15.00000	-0.02562	14.760	-2.113E-6	-0.05043	0.0
46.00000	42.00000	15.00000	-0.01478	14.760	-1.916E-6	-0.04771	0.0
47.00000	42.00000	15.00000	-0.00498	14.760	-1.740E-6	-0.04516	0.0
48.00000	42.00000	15.00000	0.00376	14.760	-1.582E-6	-0.04274	0.0
49.00000	42.00000	15.00000	0.01155	14.760	-1.440E-6	-0.04053	0.0
50.00000	42.00000	15.00000	0.01842	14.760	-1.312E-6	-0.03841	0.0
51.00000	42.00000	15.00000	0.02446	14.760	-1.197E-6	-0.03647	0.0
52.00000	42.00000	15.00000	0.02970	14.760	-1.094E-6	-0.03463	0.0
53.00000	42.00000	15.00000	0.03424	14.760	-1.001E-6	-0.03289	0.0
54.00000	42.00000	15.00000	0.03811	14.760	0.0	-0.03127	0.0
55.00000	42.00000	15.00000	0.04140	14.760	0.0	-0.02974	0.0
-25.00000	43.00000	15.00000	0.04280	14.760	-1.960E-6	-0.04827	0.0
-24.00000	43.00000	15.00000	0.04075	14.760	-2.158E-6	-0.05097	0.0
-23.00000	43.00000	15.00000	0.03833	14.760	-2.378E-6	-0.05385	0.0
-22.00000	43.00000	15.00000	0.03549	14.760	-2.623E		



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Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-12.00000	43.00000	15.00000	-0.029503	14.760	-7.2963E-6	-0.10044	0.0
-11.00000	43.00000	15.00000	-0.040644	14.760	-8.0867E-6	-0.10628	0.0
-10.00000	43.00000	15.00000	-0.052757	14.760	-8.9542E-6	-0.11239	0.0
-9.00000	43.00000	15.00000	-0.065841	14.760	-9.9015E-6	-0.11877	0.0
-8.00000	43.00000	15.00000	-0.079873	14.760	-10.9308E-6	-0.12540	0.0
-7.00000	43.00000	15.00000	-0.094813	14.760	-12.038E-6	-0.13224	0.0
-6.00000	43.00000	15.00000	-0.11060	14.760	-13.222E-6	-0.13927	0.0
-5.00000	43.00000	15.00000	-0.12713	14.760	-14.475E-6	-0.14643	0.0
-4.00000	43.00000	15.00000	-0.14431	14.760	-15.787E-6	-0.15368	0.0
-3.00000	43.00000	15.00000	-0.16199	14.760	-17.145E-6	-0.16094	0.0
-2.00000	43.00000	15.00000	-0.18002	14.760	-18.529E-6	-0.16814	0.0
-1.00000	43.00000	15.00000	-0.19822	14.760	-19.921E-6	-0.17521	0.0
0.00000	43.00000	15.00000	-0.21640	14.760	-21.298E-6	-0.18205	0.0
1.00000	43.00000	15.00000	-0.23437	14.760	-22.634E-6	-0.18858	0.0
2.00000	43.00000	15.00000	-0.25193	14.760	-23.906E-6	-0.19471	0.0
3.00000	43.00000	15.00000	-0.26889	14.760	-25.089E-6	-0.20035	0.0
4.00000	43.00000	15.00000	-0.28505	14.760	-26.161E-6	-0.20541	0.0
5.00000	43.00000	15.00000	-0.30026	14.760	-27.101E-6	-0.20983	0.0
6.00000	43.00000	15.00000	-0.31437	14.760	-27.894E-6	-0.21354	0.0
7.00000	43.00000	15.00000	-0.32725	14.760	-28.524E-6	-0.21649	0.0
8.00000	43.00000	15.00000	-0.33989	14.760	-28.982E-6	-0.21862	0.0
9.00000	43.00000	15.00000	-0.34891	14.760	-29.260E-6	-0.21991	0.0
10.00000	43.00000	15.00000	-0.35755	14.760	-29.353E-6	-0.22035	0.0
11.00000	43.00000	15.00000	-0.36468	14.760	-29.260E-6	-0.21991	0.0
12.00000	43.00000	15.00000	-0.37026	14.760	-28.982E-6	-0.21862	0.0
13.00000	43.00000	15.00000	-0.37428	14.760	-28.524E-6	-0.21649	0.0
14.00000	43.00000	15.00000	-0.37676	14.760	-27.894E-6	-0.21354	0.0
15.00000	43.00000	15.00000	-0.37772	14.760	-27.101E-6	-0.20983	0.0
16.00000	43.00000	15.00000	-0.37716	14.760	-26.161E-6	-0.20541	0.0
17.00000	43.00000	15.00000	-0.37513	14.760	-25.089E-6	-0.20035	0.0
18.00000	43.00000	15.00000	-0.37166	14.760	-23.906E-6	-0.19471	0.0
19.00000	43.00000	15.00000	-0.36680	14.760	-22.634E-6	-0.18858	0.0
20.00000	43.00000	15.00000	-0.36059	14.760	-21.298E-6	-0.18205	0.0
21.00000	43.00000	15.00000	-0.35307	14.760	-19.921E-6	-0.17521	0.0
22.00000	43.00000	15.00000	-0.34430	14.760	-18.529E-6	-0.16814	0.0
23.00000	43.00000	15.00000	-0.33433	14.760	-17.145E-6	-0.16094	0.0
24.00000	43.00000	15.00000	-0.32323	14.760	-15.787E-6	-0.15368	0.0
25.00000	43.00000	15.00000	-0.31105	14.760	-14.475E-6	-0.14643	0.0
26.00000	43.00000	15.00000	-0.29787	14.760	-13.222E-6	-0.13927	0.0
27.00000	43.00000	15.00000	-0.28378	14.760	-12.038E-6	-0.13224	0.0
28.00000	43.00000	15.00000	-0.26886	14.760	-10.930E-6	-0.12540	0.0
29.00000	43.00000	15.00000	-0.25321	14.760	-9.9015E-6	-0.11877	0.0
30.00000	43.00000	15.00000	-0.23697	14.760	-8.9542E-6	-0.11239	0.0
31.00000	43.00000	15.00000	-0.22025	14.760	-8.0867E-6	-0.10628	0.0
32.00000	43.00000	15.00000	-0.20319	14.760	-7.2963E-6	-0.10044	0.0
33.00000	43.00000	15.00000	-0.18594	14.760	-6.5793E-6	-0.09489	0.0
34.00000	43.00000	15.00000	-0.16866	14.760	-5.9311E-6	-0.089620	0.0
35.00000	43.00000	15.00000	-0.15150	14.760	-5.3466E-6	-0.084633	0.0
36.00000	43.00000	15.00000	-0.13461	14.760	-4.8206E-6	-0.079922	0.0
37.00000	43.00000	15.00000	-0.11813	14.760	-4.3482E-6	-0.075480	0.0
38.00000	43.00000	15.00000	-0.10219	14.760	-3.9242E-6	-0.071294	0.0
39.00000	43.00000	15.00000	-0.086910	14.760	-3.5440E-6	-0.067359	0.0
40.00000	43.00000	15.00000	-0.072376	14.760	-3.2032E-6	-0.063659	0.0
41.00000	43.00000	15.00000	-0.058666	14.760	-2.8977E-6	-0.060183	0.0
42.00000	43.00000	15.00000	-0.045835	14.760	-2.6239E-6	-0.056918	0.0
43.00000	43.00000	15.00000	-0.033918	14.760	-2.3784E-6	-0.053853	0.0
44.00000	43.00000	15.00000	-0.022931	14.760	-2.1581E-6	-0.050977	0.0
45.00000	43.00000	15.00000	-0.012874	14.760	-1.9604E-6	-0.048277	0.0
46.00000	43.00000	15.00000	-0.0037321	14.760	-1.7827E-6	-0.045743	0.0
47.00000	43.00000	15.00000	0.0045194	14.760	-1.6230E-6	-0.043364	0.0
48.00000	43.00000	15.00000	0.0118186	14.760	-1.4793E-6	-0.041130	0.0
49.00000	43.00000	15.00000	0.018500	14.760	-1.3498E-6	-0.039032	0.0
50.00000	43.00000	15.00000	0.024319	14.760	-1.2331E-6	-0.037062	0.0
51.00000	43.00000	15.00000	0.029422	14.760	-1.1278E-6	-0.035210	0.0
52.00000	43.00000	15.00000	0.033862	14.760	-1.0326E-6	-0.033469	0.0
53.00000	43.00000	15.00000	0.037690	14.760	0.0	-0.031831	0.0
54.00000	43.00000	15.00000	0.040959	14.760	0.0	-0.030291	0.0
55.00000	43.00000	15.00000	0.043717	14.760	0.0	-0.028840	0.0
-25.00000	44.00000	15.00000	0.044191	14.760	-1.8172E-6	-0.046200	0.0
-24.00000	44.00000	15.00000	0.042499	14.760	-1.9945E-6	-0.048705	0.0
-23.00000	44.00000	15.00000	0.0404850	14.760	-2.1912E-6	-0.051260	0.0
-22.00000	44.00000	15.00000	0.038007	14.760	-2.4094E-6	-0.054193	0.0
-21.00000	44.00000	15.00000	0.035129	14.760	-2.6515E-6	-0.057195	0.0
-20.00000	44.00000	15.00000	0.031778	14.760	-2.9201E-6	-0.060381	0.0
-19.00000	44.00000	15.00000	0.027911	14.760	-3.2182E-6	-0.063760	0.0
-18.00000	44.00000	15.00000	0.023485	14.760	-3.5488E-6	-0.067341	0.0
-17.00000	44.00000	15.00000	0.018458	14.760	-3.9152E-6	-0.071133	0.0
-16.00000	44.00000	15.00000	0.012789	14.760	-4.3209E-6	-0.075144	0.0
-15.00000	44.00000	15.00000	0.0064366	14.760	-4.7694E-6	-0.079378	0.0
-14.00000	44.00000	15.00000	-633.83E-6	14.760	-5.2643E-6	-0.083842	0.0
-13.00000	44.00000	15.00000	-0.0084540	14.760	-5.8091E-6	-0.088580	0.0
-12.00000	44.00000	15.00000	-0.017048	14.760	-6.4071E-6	-0.093461	0.0
-11.00000	44.00000	15.00000	-0.026433	14.760	-7.0611E-6	-0.098613	0.0
-10.00000	44.00000	15.00000	-0.036613	14.760	-7.7732E-6	-0.10398	0.0
-9.00000	44.00000	15.00000	-0.047581	14.760	-8.5446E-6	-0.10956	0.0
-8.00000	44.00000	15.00000	-0.059314	14.760	-9.3750E-6	-0.11532	0.0
-7.00000	44.00000	15.00000	-0.071774	14.760	-10.263E-6	-0.12124	0.0
-6.00000	44.00000	15.00000	-0.084905	14.760	-11.204E-6	-0.12729	0.0
-5.00000	44.00000	15.00000	-0.098631	14.760	-12.193E-6	-0.13343	0.0
-4.00000	44.00000	15.00000	-0.11286	14.760	-13.222E-6	-0.13960	0.0
-3.00000	44.00000	15.00000	-0.12748	14.760	-14.279E-6	-0.14577	0.0
-2.00000	44.00000	15.00000	-0.14236	14.760	-15.351E-6	-0.15187	0.0
-1.00000	44.00000	15.00000	-0.15736	14.760	-16.424E-6	-0.15782	0.0
0.00000	44.00000	15.00000	-0.17234	14.760	-17.481E-6	-0.16357	0.0
1.00000	44.00000	15.00000	-0.18712	14.760	-18.504E-6	-0.16905	0.0
2.00000	44.00000	15.00000	-0.20157	14.760	-19.476E-6	-0.17417	0.0
3.00000	44.00000	15.00000	-0.21552	14.760	-20.379E-6	-0.17888	0.0
4.00000	44.00000	15.00000	-0.22883	14.760	-21.196E-6	-0.18310	0.0
5.00000	44.00000	15.00000	-0.24136	14.760	-21.914E-6	-0.18678	0.0
6.00000	44.00000	15.00000	-0.25299	14.760	-22.518E-6	-0.18987	0.0
7.00000	44.00000	15.00000	-0.26362	14.760	-22.999E-6	-0.19232	0.0
8.00000	44.00000	15.00000	-0.27316	14.760	-23.348E-6	-0.19409	0.0
9.00000	44.00000	15.00000	-0.28153	14.760	-23.560E-6	-0.19517	0.0
10.00000	44.00000	15.00000	-0.28869	14.760	-23.631E-6	-0.19553	0.0
11.00000	44.00000	15.00000	-0.29459	14.760	-23.560E-6	-0.19517	0.0
12.00000	44.00000	15.00000	-0.29921	14.760	-23.348E-6	-0.19409	0.0
13.00000	44.00000	15.00000	-0.30255	14.760	-22.999E-6	-0.19232	0.0
14.00000	44.00000	15.00000	-0.30459	14.760	-22.518E-6	-0.18987	0.0
15.00000	44.00000	15.00000	-0.30537	14.760	-21.914E-6	-0.18678	0.0
16.00000	44.00000	15.00000	-0.30488	14.760	-21.196E-6	-0.18310	0.0
17.00000	44.00000	15.00000	-0.30315	14.760	-20.379E-6	-0.17888	0.0
18.00000	44.00000	15.00000	-0.30022	14.760	-19.476E-6	-0.17417	0.0
19.00000	44.00000	15.00000	-0.29613	14.760	-18.504E-6	-0.16905	0.0
20.00000	44.00000	15.00000	-0.29090	14.760	-17.481E-6	-0.16357	0.0
21.00000	44.00000	15.00000	-0.28458	14.760	-16.424E-6	-0.15782	0.0
22.00000	44.00000	15.00000	-0.27721	14.760	-15.351E-6	-0.15187	0.0
23.00000	44.00000	15.00000	-0.26885	14.760	-14.279E-6	-0.14577	0.0
24.00000	44.00000	15.00000	-0.25954	14.760	-13.222E-6	-0.13960	0.0
25.00000	44.00000	15.00000	-0.24935	14.760	-12.193E-6	-0.13343	0.0
26.00000	44.00000	15.00000	-0.23834</				

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by	Date	Checked
MP		

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z [Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
37.00000	44.00000	15.00000	-0.089322	14.760	-3.9152E-6	-0.071133	0.0
38.00000	44.00000	15.00000	-0.076126	14.760	-3.5488E-6	-0.067341	0.0
39.00000	44.00000	15.00000	-0.063457	14.760	-3.2182E-6	-0.063760	0.0
40.00000	44.00000	15.00000	-0.051392	14.760	-2.9201E-6	-0.060381	0.0
41.00000	44.00000	15.00000	-0.039994	14.760	-2.6515E-6	-0.057195	0.0
42.00000	44.00000	15.00000	-0.029308	14.760	-2.4094E-6	-0.054193	0.0
43.00000	44.00000	15.00000	-0.019366	14.760	-2.2191E-6	-0.051367	0.0
44.00000	44.00000	15.00000	-0.010183	14.760	-1.9945E-6	-0.048705	0.0
45.00000	44.00000	15.00000	-0.0017626	14.760	-1.8172E-6	-0.046200	0.0
46.00000	44.00000	15.00000	0.0059027	14.760	-1.6572E-6	-0.043843	0.0
47.00000	44.00000	15.00000	0.012831	14.760	-1.5128E-6	-0.041624	0.0
48.00000	44.00000	15.00000	0.019048	14.760	-1.3824E-6	-0.039535	0.0
49.00000	44.00000	15.00000	0.024585	14.760	-1.2644E-6	-0.037569	0.0
50.00000	44.00000	15.00000	0.029480	14.760	-1.1578E-6	-0.035718	0.0
51.00000	44.00000	15.00000	0.033770	14.760	-1.0612E-6	-0.033975	0.0
52.00000	44.00000	15.00000	0.037498	14.760	0.0	-0.032332	0.0
53.00000	44.00000	15.00000	0.040705	14.760	0.0	-0.030785	0.0
54.00000	44.00000	15.00000	0.043432	14.760	0.0	-0.029326	0.0
55.00000	44.00000	15.00000	0.045722	14.760	0.0	-0.027951	0.0
-25.00000	45.00000	15.00000	0.043762	14.760	-1.6838E-6	-0.044203	0.0
-24.00000	45.00000	15.00000	0.043996	14.760	-1.8428E-6	-0.046526	0.0
-23.00000	45.00000	15.00000	0.042300	14.760	-2.0183E-6	-0.048988	0.0
-22.00000	45.00000	15.00000	0.040261	14.760	-2.2121E-6	-0.051595	0.0
-21.00000	45.00000	15.00000	0.037849	14.760	-2.4262E-6	-0.054354	0.0
-20.00000	45.00000	15.00000	0.035030	14.760	-2.6625E-6	-0.057273	0.0
-19.00000	45.00000	15.00000	0.031769	14.760	-2.9233E-6	-0.060360	0.0
-18.00000	45.00000	15.00000	0.028032	14.760	-3.2109E-6	-0.063619	0.0
-17.00000	45.00000	15.00000	0.023784	14.760	-3.5278E-6	-0.067058	0.0
-16.00000	45.00000	15.00000	0.018994	14.760	-3.8766E-6	-0.070680	0.0
-15.00000	45.00000	15.00000	0.013129	14.760	-4.2597E-6	-0.074490	0.0
-14.00000	45.00000	15.00000	0.0076642	14.760	-4.6796E-6	-0.078490	0.0
-13.00000	45.00000	15.00000	0.0010751	14.760	-5.1388E-6	-0.082678	0.0
-12.00000	45.00000	15.00000	-0.0061548	14.760	-5.6392E-6	-0.087054	0.0
-11.00000	45.00000	15.00000	-0.014035	14.760	-6.1825E-6	-0.091610	0.0
-10.00000	45.00000	15.00000	-0.022566	14.760	-6.7697E-6	-0.096337	0.0
-9.00000	45.00000	15.00000	-0.031739	14.760	-7.4011E-6	-0.10122	0.0
-8.00000	45.00000	15.00000	-0.041530	14.760	-8.0759E-6	-0.10625	0.0
-7.00000	45.00000	15.00000	-0.051906	14.760	-8.7922E-6	-0.11139	0.0
-6.00000	45.00000	15.00000	-0.062818	14.760	-9.5464E-6	-0.11662	0.0
-5.00000	45.00000	15.00000	-0.074201	14.760	-10.334E-6	-0.12190	0.0
-4.00000	45.00000	15.00000	-0.085979	14.760	-11.147E-6	-0.12720	0.0
-3.00000	45.00000	15.00000	-0.098060	14.760	-11.978E-6	-0.13246	0.0
-2.00000	45.00000	15.00000	-0.11034	14.760	-12.818E-6	-0.13765	0.0
-1.00000	45.00000	15.00000	-0.12271	14.760	-13.654E-6	-0.14270	0.0
0.00000	45.00000	15.00000	-0.13504	14.760	-14.475E-6	-0.14756	0.0
1.00000	45.00000	15.00000	-0.14722	14.760	-15.267E-6	-0.15218	0.0
2.00000	45.00000	15.00000	-0.15911	14.760	-16.017E-6	-0.15649	0.0
3.00000	45.00000	15.00000	-0.17059	14.760	-16.714E-6	-0.16045	0.0
4.00000	45.00000	15.00000	-0.18154	14.760	-17.344E-6	-0.16399	0.0
5.00000	45.00000	15.00000	-0.19186	14.760	-17.896E-6	-0.16708	0.0
6.00000	45.00000	15.00000	-0.20145	14.760	-18.362E-6	-0.16966	0.0
7.00000	45.00000	15.00000	-0.21021	14.760	-18.732E-6	-0.17171	0.0
8.00000	45.00000	15.00000	-0.21809	14.760	-19.001E-6	-0.17320	0.0
9.00000	45.00000	15.00000	-0.22500	14.760	-19.164E-6	-0.17410	0.0
10.00000	45.00000	15.00000	-0.23092	14.760	-19.219E-6	-0.17440	0.0
11.00000	45.00000	15.00000	-0.23579	14.760	-19.164E-6	-0.17410	0.0
12.00000	45.00000	15.00000	-0.23962	14.760	-19.001E-6	-0.17320	0.0
13.00000	45.00000	15.00000	-0.24237	14.760	-18.732E-6	-0.17171	0.0
14.00000	45.00000	15.00000	-0.24405	14.760	-18.362E-6	-0.16966	0.0
15.00000	45.00000	15.00000	-0.24467	14.760	-17.896E-6	-0.16708	0.0
16.00000	45.00000	15.00000	-0.24423	14.760	-17.344E-6	-0.16399	0.0
17.00000	45.00000	15.00000	-0.24277	14.760	-16.714E-6	-0.16045	0.0
18.00000	45.00000	15.00000	-0.24029	14.760	-16.017E-6	-0.15649	0.0
19.00000	45.00000	15.00000	-0.23684	14.760	-15.267E-6	-0.15218	0.0
20.00000	45.00000	15.00000	-0.23244	14.760	-14.475E-6	-0.14756	0.0
21.00000	45.00000	15.00000	-0.22713	14.760	-13.654E-6	-0.14270	0.0
22.00000	45.00000	15.00000	-0.22094	14.760	-12.818E-6	-0.13765	0.0
23.00000	45.00000	15.00000	-0.21393	14.760	-11.978E-6	-0.13246	0.0
24.00000	45.00000	15.00000	-0.20614	14.760	-11.147E-6	-0.12720	0.0
25.00000	45.00000	15.00000	-0.19762	14.760	-10.334E-6	-0.12190	0.0
26.00000	45.00000	15.00000	-0.18843	14.760	-9.5464E-6	-0.11662	0.0
27.00000	45.00000	15.00000	-0.17862	14.760	-8.7922E-6	-0.11139	0.0
28.00000	45.00000	15.00000	-0.16827	14.760	-8.0759E-6	-0.10625	0.0
29.00000	45.00000	15.00000	-0.15746	14.760	-7.4011E-6	-0.10122	0.0
30.00000	45.00000	15.00000	-0.14626	14.760	-6.7697E-6	-0.096337	0.0
31.00000	45.00000	15.00000	-0.13476	14.760	-6.1825E-6	-0.091610	0.0
32.00000	45.00000	15.00000	-0.12306	14.760	-5.6392E-6	-0.087054	0.0
33.00000	45.00000	15.00000	-0.11125	14.760	-5.1388E-6	-0.082678	0.0
34.00000	45.00000	15.00000	-0.099432	14.760	-4.6796E-6	-0.078490	0.0
35.00000	45.00000	15.00000	-0.087699	14.760	-4.2597E-6	-0.074490	0.0
36.00000	45.00000	15.00000	-0.076149	14.760	-3.8766E-6	-0.070680	0.0
37.00000	45.00000	15.00000	-0.064872	14.760	-3.5278E-6	-0.067058	0.0
38.00000	45.00000	15.00000	-0.053949	14.760	-3.2109E-6	-0.063619	0.0
39.00000	45.00000	15.00000	-0.043454	14.760	-2.9233E-6	-0.060360	0.0
40.00000	45.00000	15.00000	-0.033450	14.760	-2.6625E-6	-0.057273	0.0
41.00000	45.00000	15.00000	-0.023997	14.760	-2.4262E-6	-0.054354	0.0
42.00000	45.00000	15.00000	-0.015103	14.760	-2.2121E-6	-0.051595	0.0
43.00000	45.00000	15.00000	-0.0068270	14.760	-2.0183E-6	-0.048988	0.0
44.00000	45.00000	15.00000	826.90E-6	14.760	-1.8428E-6	-0.046526	0.0
45.00000	44.00000	15.00000	0.0078532	14.760	-1.6838E-6	-0.044203	0.0
46.00000	45.00000	15.00000	0.014256	14.760	-1.5399E-6	-0.042011	0.0
47.00000	45.00000	15.00000	0.020048	14.760	-1.4094E-6	-0.039942	0.0
48.00000	45.00000	15.00000	0.025247	14.760	-1.2911E-6	-0.037990	0.0
49.00000	45.00000	15.00000	0.029877	14.760	-1.1838E-6	-0.036149	0.0
50.00000	45.00000	15.00000	0.033967	14.760	-1.0863E-6	-0.034411	0.0
51.00000	45.00000	15.00000	0.037547	14.760	0.0	-0.032771	0.0
52.00000	45.00000	15.00000	0.040650	14.760	0.0	-0.031223	0.0
53.00000	45.00000	15.00000	0.043310	14.760			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
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Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [m]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
5.00000	-20.00000	13.00000	-0.15531	12.566	-0.015032	-1.6046	6.8863E-6
6.00000	-20.00000	13.00000	-0.16328	12.566	-0.015399	-1.6314	6.9982E-6
7.00000	-20.00000	13.00000	-0.17056	12.566	-0.015692	-1.6539	7.0925E-6
8.00000	-20.00000	13.00000	-0.17709	12.566	-0.015905	-1.6718	7.1683E-6
9.00000	-20.00000	13.00000	-0.18281	12.566	-0.016036	-1.6851	7.2250E-6
10.00000	-20.00000	13.00000	-0.18770	12.566	-0.016081	-1.6935	7.2620E-6
11.00000	-20.00000	13.00000	-0.19172	12.566	-0.016041	-1.6970	7.2790E-6
12.00000	-20.00000	13.00000	-0.19484	12.566	-0.015915	-1.6956	7.2761E-6
13.00000	-20.00000	13.00000	-0.19706	12.566	-0.015707	-1.6894	7.2534E-6
14.00000	-20.00000	13.00000	-0.19838	12.566	-0.015419	-1.6784	7.2115E-6
15.00000	-20.00000	13.00000	-0.19879	12.566	-0.015057	-1.6629	7.1509E-6
16.00000	-20.00000	13.00000	-0.19831	12.566	-0.014626	-1.6431	7.0725E-6
17.00000	-20.00000	13.00000	-0.19696	12.566	-0.014135	-1.6192	6.9773E-6
18.00000	-20.00000	13.00000	-0.19476	12.566	-0.013590	-1.5916	6.8665E-6
19.00000	-20.00000	13.00000	-0.19172	12.566	-0.013001	-1.5606	6.7415E-6
20.00000	-20.00000	13.00000	-0.18789	12.566	-0.012377	-1.5265	6.6036E-6
21.00000	-20.00000	13.00000	-0.18330	12.566	-0.011729	-1.4898	6.4543E-6
22.00000	-20.00000	13.00000	-0.17797	12.566	-0.011066	-1.4508	6.2950E-6
23.00000	-20.00000	13.00000	-0.17195	12.566	-0.010396	-1.4099	6.1274E-6
24.00000	-20.00000	13.00000	-0.16528	12.566	-0.0097296	-1.3675	5.9528E-6
25.00000	-20.00000	13.00000	-0.15800	12.566	-0.0090731	-1.3239	5.7726E-6
26.00000	-20.00000	13.00000	-0.15018	12.566	-0.0084334	-1.2795	5.5883E-6
27.00000	-20.00000	13.00000	-0.14186	12.566	-0.0078158	-1.2347	5.4011E-6
28.00000	-20.00000	13.00000	-0.13310	12.566	-0.0072247	-1.1896	5.2121E-6
29.00000	-20.00000	13.00000	-0.12396	12.566	-0.0066632	-1.1445	5.0226E-6
30.00000	-20.00000	13.00000	-0.11452	12.566	-0.0061334	-1.0997	4.8314E-6
31.00000	-20.00000	13.00000	-0.10485	12.566	-0.0056363	-1.0554	4.6455E-6
32.00000	-20.00000	13.00000	-0.095023	12.566	-0.0051725	-1.0118	4.4598E-6
33.00000	-20.00000	13.00000	-0.085118	12.566	-0.0047416	-0.96897	4.2768E-6
34.00000	-20.00000	13.00000	-0.075217	12.566	-0.0043429	-0.92709	4.0972E-6
35.00000	-20.00000	13.00000	-0.065396	12.566	-0.0039755	-0.88626	3.9217E-6
36.00000	-20.00000	13.00000	-0.055732	12.566	-0.0036368	-0.84662	3.7505E-6
37.00000	-20.00000	13.00000	-0.046298	12.566	-0.0033265	-0.80819	3.5843E-6
38.00000	-20.00000	13.00000	-0.037160	12.566	-0.0030422	-0.77106	3.4232E-6
39.00000	-20.00000	13.00000	-0.028375	12.566	-0.0027824	-0.73526	3.2675E-6
40.00000	-20.00000	13.00000	-0.019996	12.566	-0.0025451	-0.70083	3.1174E-6
41.00000	-20.00000	13.00000	-0.012064	12.566	-0.0023287	-0.66779	2.9731E-6
42.00000	-20.00000	13.00000	-0.0046100	12.566	-0.0021314	-0.63614	2.8345E-6
43.00000	-20.00000	13.00000	0.0023417	12.566	-0.0019517	-0.60587	2.7018E-6
44.00000	-20.00000	13.00000	0.0087773	12.566	-0.0017881	-0.57697	2.5748E-6
45.00000	-20.00000	13.00000	0.014691	12.566	-0.0016291	-0.54942	2.4526E-6
46.00000	-20.00000	13.00000	0.020085	12.566	-0.0015035	-0.52318	2.3380E-6
47.00000	-20.00000	13.00000	0.024967	12.566	-0.0013800	-0.49823	2.2279E-6
48.00000	-20.00000	13.00000	0.029352	12.566	-0.0012676	-0.47451	2.1231E-6
49.00000	-20.00000	13.00000	0.033256	12.566	-0.0011651	-0.45199	2.0235E-6
50.00000	-20.00000	13.00000	0.036703	12.566	-0.0010718	-0.43062	1.9293E-6
51.00000	-20.00000	13.00000	0.039717	12.566	-986.70E-6	-0.41035	1.8390E-6
52.00000	-20.00000	13.00000	0.042324	12.566	-909.08E-6	-0.39114	1.7538E-6
53.00000	-20.00000	13.00000	0.044552	12.566	-838.25E-6	-0.37293	1.6729E-6
54.00000	-20.00000	13.00000	0.046428	12.566	-773.56E-6	-0.35568	1.5962E-6
55.00000	-20.00000	13.00000	-0.047979	12.566	-714.45E-6	-0.33939	1.5235E-6
-25.00000	-19.00000	13.00000	0.043867	12.566	-0.0017409	-0.47050	2.0920E-6
-24.00000	-19.00000	13.00000	0.042402	12.566	-0.0019045	-0.49495	2.1987E-6
-23.00000	-19.00000	13.00000	0.040621	12.566	-0.0020851	-0.52083	2.3114E-6
-22.00000	-19.00000	13.00000	0.038495	12.566	-0.0022843	-0.54823	2.4306E-6
-21.00000	-19.00000	13.00000	-0.035939	12.566	-0.0025042	-0.57722	2.5564E-6
-20.00000	-19.00000	13.00000	0.033070	12.566	-0.0027468	-0.60787	2.6892E-6
-19.00000	-19.00000	13.00000	0.029705	12.566	-0.0030144	-0.64027	2.8292E-6
-18.00000	-19.00000	13.00000	0.025857	12.566	-0.0033093	-0.67447	2.9767E-6
-17.00000	-19.00000	13.00000	0.021493	12.566	-0.0036339	-0.71054	3.1318E-6
-16.00000	-19.00000	13.00000	-0.016580	12.566	-0.0039900	-0.74895	3.2949E-6
-15.00000	-19.00000	13.00000	0.011087	12.566	-0.0043826	-0.78848	3.4658E-6
-14.00000	-19.00000	13.00000	0.0049874	12.566	-0.0048116	-0.83040	3.6448E-6
-13.00000	-19.00000	13.00000	-0.0017428	12.566	-0.0052803	-0.87432	3.8317E-6
-12.00000	-19.00000	13.00000	-0.0091198	12.566	-0.0057905	-0.92019	4.0263E-6
-11.00000	-19.00000	13.00000	-0.017153	12.566	-0.0063440	-0.96799	4.2285E-6
-10.00000	-19.00000	13.00000	-0.025843	12.566	-0.0069416	-1.0176	4.4377E-6
-9.00000	-19.00000	13.00000	-0.035179	12.566	-0.0075836	-1.0689	4.6535E-6
-8.00000	-19.00000	13.00000	-0.045139	12.566	-0.0082690	-1.1217	4.8749E-6
-7.00000	-19.00000	13.00000	-0.055687	12.566	-0.0089957	-1.1758	5.1011E-6
-6.00000	-19.00000	13.00000	-0.066773	12.566	-0.0097603	-1.2309	5.3309E-6
-5.00000	-19.00000	13.00000	-0.078332	12.566	-0.010558	-1.2867	5.5629E-6
-4.00000	-19.00000	13.00000	-0.090286	12.566	-0.011381	-1.3428	5.7955E-6
-3.00000	-19.00000	13.00000	-0.10254	12.566	-0.012222	-1.3988	6.0271E-6
-2.00000	-19.00000	13.00000	-0.11500	12.566	-0.013070	-1.4541	6.2575E-6
-1.00000	-19.00000	13.00000	-0.12753	12.566	-0.013915	-1.5084	6.4793E-6
0.00000	-19.00000	13.00000	-0.14003	12.566	-0.014744	-1.5609	6.6957E-6
1.00000	-19.00000	13.00000	-0.15235	12.566	-0.015544	-1.6113	6.9028E-6
2.00000	-19.00000	13.00000	-0.16438	12.566	-0.016302	-1.6589	7.0985E-6
3.00000	-19.00000	13.00000	-0.17600	12.566	-0.017005	-1.7031	7.2805E-6
4.00000	-19.00000	13.00000	-0.18707	12.566	-0.017648	-1.7436	7.4470E-6
5.00000	-19.00000	13.00000	-0.19749	12.566	-0.018200	-1.7797	7.5962E-6
6.00000	-19.00000	13.00000	-0.20716	12.566	-0.018671	-1.8111	7.7263E-6
7.00000	-19.00000	13.00000	-0.21600	12.566	-0.019046	-1.8375	7.8359E-6
8.00000	-19.00000	13.00000	-0.22391	12.566	-0.019320	-1.8585	7.9241E-6
9.00000	-19.00000	13.00000	-0.23106	12.566	-0.019498	-1.8740	7.9971E-6
10.00000	-19.00000	13.00000	-0.23678	12.566	-0.019545	-1.8837	8.0324E-6
11.00000	-19.00000	13.00000	-0.24165	12.566	-0.019493	-1.8876	8.0517E-6
12.00000	-19.00000	13.00000	-0.24544	12.566	-0.019332	-1.8858	8.0477E-6
13.00000	-19.00000	13.00000	-0.24815	12.566	-0.019064	-1.8782	8.0206E-6
14.00000	-19.00000	13.00000	-0.24976	12.566	-0.018699	-1.8656	7.9710E-6
15.00000	-19.00000	13.00000	-0.25029	12.566	-0.018230	-1.8466	7.8998E-6
16.00000	-19.00000	13.00000	-0.24975	12.566	-0.017678	-1.8231	7.8079E-6
17.00000	-19.00000	13.00000	-0.24817	12.566	-0.017047	-1.7949	7.6966E-6
18.00000	-19.00000	13.00000	-0.24556	12.566	-0.016349	-1.7623	7.5674E-6
19.00000	-19.00000	13.00000	-0.24196	12.566	-0.015597	-1.7257	7.4218E-6
20.00000	-19.00000	13.00000	-0.23741	12.566	-0.014802	-1.6857	7.2616E-6
21.00000	-19.00000	13.00000	-0.23194	12.566	-0.013977	-1.6427	7.0886E-6
22.00000	-19.00000	13.00000	-0.22559	12.566	-0.013137	-1.5972	6.9044E-6
23.00000	-19.00000	13.00000	-0.21840	12.566	-0.012292	-1.5496	6.7109E-6
24.00000	-19.00000	13.00000	-0.21044	12.566	-0.011458	-1.5004	6.5099E-6
25.00000	-19.00000	13.00000	-0.20174	12.566	-0.010633	-1.4499	6.3031E-6
26.00000	-19.00000	13.00000	-0.19237	12.566	-0.0098371	-1.3987	6.0919E-6
27.00000	-19.00000	13.00000	-0.18239	12.566	-0.0090735	-1.3471	5.8780E-6
28.00000	-19.00000	13.00000	-0.17187	12.566	-0.0083470	-1.2954	5.6627E-6
29.00000	-19.00000	13.00000	-0.16089	12.566	-0.0076613	-1.2439	5.4472E-6
30.00000	-19.00000	13.00000	-0.14952	12.566	-0.0070183	-1.1928	5.2327E-6
31.00000	-19.00000	13.00000	-0.13787	12.566	-0.0064191	-1.1425	5.0201E-6
32.00000	-19.00000	13.00000	-0.12601	12.566	-0.0058635	-1.0931	4.8104E-6
33.00000	-19.00000	13.00000	-0.11406	12.566	-0.0053507	-1.0447	4.6044E-6
34.00000	-19.00000	13.00000	-0.10221	12.566	-0.0048792	-0.99749	4.4027E-6
35.00000	-19.00000	13.00000	-0.090229	12.566	-0.0044468	-0.95163	4.2059E-6
36.00000	-19.00000	13.00000	-0.078550	12.566	-0.0040515	-0.90719	4.0147E-6
37.00000	-19.00000	13.00000	-0.067151	12.566	-0.0036910	-	

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by	Date	Checked
MP		

Name	X	Location	Z[Level]	Displacement	Calc Level	Stresses	Sum Princ	Vert Strain
	[m]	[m]	[mOD]	Z [mm]	[mOD]	Vert Stress [kN/m ²]	[kN/m ²]	[-]
54.00000	-19.00000	13.00000	0.044591	12.566	-818.75E-6	-0.36952	1.6580E-6	
55.00000	-19.00000	13.00000	0.046510	12.566	-754.83E-6	-0.35211	1.5805E-6	
-25.00000	-18.00000	13.00000	0.042607	12.566	-0.0018782	-0.49120	2.1824E-6	
-24.00000	-18.00000	13.00000	0.040831	12.566	-0.0020606	-0.51751	2.2970E-6	
-23.00000	-18.00000	13.00000	0.038691	12.566	-0.0022628	-0.54545	2.4185E-6	
-22.00000	-18.00000	13.00000	0.036151	12.566	-0.0024870	-0.57510	2.5473E-6	
-21.00000	-18.00000	13.00000	0.033173	12.566	-0.0027356	-0.60657	2.6836E-6	
-20.00000	-18.00000	13.00000	0.029713	12.566	-0.0030112	-0.63995	2.8279E-6	
-19.00000	-18.00000	13.00000	0.025732	12.566	-0.0033168	-0.67534	2.9804E-6	
-18.00000	-18.00000	13.00000	0.021185	12.566	-0.0036554	-0.71283	3.1417E-6	
-17.00000	-18.00000	13.00000	0.016030	12.566	-0.0040303	-0.75251	3.3119E-6	
-16.00000	-18.00000	13.00000	0.010225	12.566	-0.0044451	-0.79445	3.4913E-6	
-15.00000	-18.00000	13.00000	0.0037298	12.566	-0.0049031	-0.83872	3.6801E-6	
-14.00000	-18.00000	13.00000	-0.0034910	12.566	-0.0054081	-0.88537	3.8785E-6	
-13.00000	-18.00000	13.00000	-0.011469	12.566	-0.0059634	-0.93443	4.0864E-6	
-12.00000	-18.00000	13.00000	-0.020229	12.566	-0.0065723	-0.98589	4.3038E-6	
-11.00000	-18.00000	13.00000	-0.029786	12.566	-0.0072374	-1.0397	4.5304E-6	
-10.00000	-18.00000	13.00000	-0.040146	12.566	-0.0079607	-1.0958	4.7659E-6	
-9.00000	-18.00000	13.00000	-0.051300	12.566	-0.0087433	-1.1541	5.0096E-6	
-8.00000	-18.00000	13.00000	-0.063226	12.566	-0.0095849	-1.2144	5.2607E-6	
-7.00000	-18.00000	13.00000	-0.075883	12.566	-0.0104893	-1.2764	5.5181E-6	
-6.00000	-18.00000	13.00000	-0.089215	12.566	-0.011435	-1.3398	5.7806E-6	
-5.00000	-18.00000	13.00000	-0.10315	12.566	-0.012435	-1.4043	6.0465E-6	
-4.00000	-18.00000	13.00000	-0.11758	12.566	-0.013472	-1.4694	6.3141E-6	
-3.00000	-18.00000	13.00000	-0.13240	12.566	-0.014538	-1.5345	6.5813E-6	
-2.00000	-18.00000	13.00000	-0.14748	12.566	-0.015619	-1.5992	6.8457E-6	
-1.00000	-18.00000	13.00000	-0.16268	12.566	-0.016700	-1.6627	7.1050E-6	
0.00000	-18.00000	13.00000	-0.17785	12.566	-0.017764	-1.7244	7.3565E-6	
1.00000	-18.00000	13.00000	-0.19282	12.566	-0.018794	-1.7836	7.5976E-6	
2.00000	-18.00000	13.00000	-0.20743	12.566	-0.019771	-1.8396	7.8257E-6	
3.00000	-18.00000	13.00000	-0.222154	12.566	-0.020688	-1.8918	8.0382E-6	
4.00000	-18.00000	13.00000	-0.23499	12.566	-0.021503	-1.9395	8.2327E-6	
5.00000	-18.00000	13.00000	-0.24764	12.566	-0.022225	-1.9822	8.4070E-6	
6.00000	-18.00000	13.00000	-0.25937	12.566	-0.022835	-2.0192	8.5590E-6	
7.00000	-18.00000	13.00000	-0.27008	12.566	-0.023321	-2.0503	8.6870E-6	
8.00000	-18.00000	13.00000	-0.27967	12.566	-0.023675	-2.0750	8.7898E-6	
9.00000	-18.00000	13.00000	-0.28808	12.566	-0.023891	-2.0931	8.8661E-6	
10.00000	-18.00000	13.00000	-0.29525	12.566	-0.023966	-2.1044	8.9155E-6	
11.00000	-18.00000	13.00000	-0.30114	12.566	-0.023899	-2.1088	8.9374E-6	
12.00000	-18.00000	13.00000	-0.30572	12.566	-0.023535	-2.0972	8.8795E-6	
13.00000	-18.00000	13.00000	-0.30900	12.566	-0.023343	-2.0972	8.8995E-6	
14.00000	-18.00000	13.00000	-0.31097	12.566	-0.022865	-2.0814	8.8407E-6	
15.00000	-18.00000	13.00000	-0.31164	12.566	-0.022263	-2.0593	8.7566E-6	
16.00000	-18.00000	13.00000	-0.31102	12.566	-0.021548	-2.0312	8.6484E-6	
17.00000	-18.00000	13.00000	-0.30916	12.566	-0.020726	-1.9976	8.5178E-6	
18.00000	-18.00000	13.00000	-0.30608	12.566	-0.019831	-1.9589	8.3665E-6	
19.00000	-18.00000	13.00000	-0.30181	12.566	-0.018859	-1.9157	8.1964E-6	
20.00000	-18.00000	13.00000	-0.29640	12.566	-0.017836	-1.8684	8.0096E-6	
21.00000	-18.00000	13.00000	-0.28989	12.566	-0.016778	-1.8178	7.8082E-6	
22.00000	-18.00000	13.00000	-0.28232	12.566	-0.015619	-1.7643	7.5945E-6	
23.00000	-18.00000	13.00000	-0.27376	12.566	-0.014626	-1.7086	7.3705E-6	
24.00000	-18.00000	13.00000	-0.26425	12.566	-0.013564	-1.6512	7.1384E-6	
25.00000	-18.00000	13.00000	-0.25385	12.566	-0.012529	-1.5926	6.9001E-6	
26.00000	-18.00000	13.00000	-0.24264	12.566	-0.011532	-1.5333	6.6576E-6	
27.00000	-18.00000	13.00000	-0.23068	12.566	-0.010581	-1.4737	6.4125E-6	
28.00000	-18.00000	13.00000	-0.21805	12.566	-0.0096825	-1.4124	6.1664E-6	
29.00000	-18.00000	13.00000	-0.20485	12.566	-0.0088403	-1.3511	5.9208E-6	
30.00000	-18.00000	13.00000	-0.19118	12.566	-0.0080562	-1.2968	5.6769E-6	
31.00000	-18.00000	13.00000	-0.17713	12.566	-0.0073313	-1.2394	5.4358E-6	
32.00000	-18.00000	13.00000	-0.16283	12.566	-0.0066626	-1.1832	5.1985E-6	
33.00000	-18.00000	13.00000	-0.14840	12.566	-0.0060503	-1.1284	4.9659E-6	
34.00000	-18.00000	13.00000	-0.13395	12.566	-0.0054910	-1.0751	4.7388E-6	
35.00000	-18.00000	13.00000	-0.11961	12.566	-0.0049816	-1.0234	4.5178E-6	
36.00000	-18.00000	13.00000	-0.10551	12.566	-0.0045189	-0.9735	4.3035E-6	
37.00000	-18.00000	13.00000	-0.091738	12.566	-0.0040994	-0.9254	4.0963E-6	
38.00000	-18.00000	13.00000	-0.078413	12.566	-0.0037196	-0.8792	3.8966E-6	
39.00000	-18.00000	13.00000	-0.065624	12.566	-0.0033762	-0.8349	3.7046E-6	
40.00000	-18.00000	13.00000	-0.053446	12.566	-0.0030759	-0.7926	3.5206E-6	
41.00000	-18.00000	13.00000	-0.041940	12.566	-0.0027858	-0.7522	3.3445E-6	
42.00000	-18.00000	13.00000	-0.031153	12.566	-0.0025329	-0.7137	3.1765E-6	
43.00000	-18.00000	13.00000	-0.021115	12.566	-0.0023047	-0.6771	3.0164E-6	
44.00000	-18.00000	13.00000	-0.011842	12.566	-0.0020987	-0.6425	2.8641E-6	
45.00000	-18.00000	13.00000	-0.0033369	12.566	-0.0019280	-0.6095	2.7196E-6	
46.00000	-18.00000	13.00000	0.0044081	12.566	-0.0017448	-0.5783	2.5825E-6	
47.00000	-18.00000	13.00000	0.011412	12.566	-0.0015931	-0.5489	2.4526E-6	
48.00000	-18.00000	13.00000	0.017699	12.566	-0.0014560	-0.5210	2.3297E-6	
49.00000	-18.00000	13.00000	0.023303	12.566	-0.0013319	-0.4947	2.2134E-6	
50.00000	-18.00000	13.00000	0.028260	12.566	-0.0011966	-0.4699	2.1036E-6	
51.00000	-18.00000	13.00000	0.032610	12.566	-0.0011179	-0.4464	1.9998E-6	
52.00000	-18.00000	13.00000	0.036393	12.566	-0.0010257	-0.4243	1.9017E-6	
53.00000	-18.00000	13.00000	0.039653	12.566	-942.05E-6	-0.40352	1.8092E-6	
54.00000	-18.00000	13.00000	0.042430	12.566	-866.05E-6	-0.3838	1.7218E-6	
55.00000	-18.00000	13.00000	0.044767	12.566	-797.00E-6	-0.36530	1.6394E-6	
-25.00000	-17.00000	13.00000	0.041152	12.566	-0.0302055	-0.51270	2.2761E-6	
-24.00000	-17.00000	13.00000	0.039029	12.566	-0.0302258	-0.54010	2.3993E-6	
-23.00000	-17.00000	13.00000	0.036489	12.566	-0.0302452	-0.57115	2.5302E-6	
-22.00000	-17.00000	13.00000	0.033488	12.566	-0.0302780	-0.60320	2.6692E-6	
-21.00000	-17.00000	13.00000	0.029979	12.566	-0.0302982	-0.63739	2.8169E-6	
-20.00000	-17.00000	13.00000	0.025912	12.566	-0.0303313	-0.67375	2.9736E-6	
-19.00000	-17.00000	13.00000	0.021236	12.566	-0.0303650	-0.71241	3.1399E-6	
-18.00000	-17.00000	13.00000	0.015898	12.566	-0.0303984	-0.75352	3.3162E-6	
-17.00000	-17.00000	13.00000	0.0098439	12.566	-0.03044729	-0.79719	3.5030E-6	
-16.00000	-17.00000	13.00000	0.0030213	12.566	-0.03049554	-0.84352	3.7005E-6	
-15.00000	-17.00000	13.00000	-0.0046214	12.566	-0.03054919	-0.89263	3.9092E-6	
-14.00000	-17.00000	13.00000	-0.013132	12.566	-0.03060874	-0.94460	4.1292E-6	
-13.00000	-17.00000	13.00000	-0.022552	12.566	-0.03067472	-0.99492	4.3608E-6	
-12.00000	-17.00000	13.00000	-0.032918	12.566	-0.03074559	-1.0573	4.6039E-6	
-11.00000	-17.00000	13.00000	-0.044254	12.566	-0.03082782	-1.1181	4.8583E-6	
-10.00000	-17.00000	13.00000	-0.056571	12.566	-0.03091576	-1.1817	5.1238E-6	
-9.00000								



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location		Displacement		Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	22.00000	-17.00000	13.00000	-0.34995	12.566	-0.018910	-1.9561	8.3791E-6
	23.00000	-17.00000	13.00000	-0.33974	12.566	-0.017525	-1.8906	8.1189E-6
	24.00000	-17.00000	13.00000	-0.32840	12.566	-0.016166	-1.8233	7.8500E-6
	25.00000	-17.00000	13.00000	-0.31598	12.566	-0.014850	-1.7549	7.5747E-6
	26.00000	-17.00000	13.00000	-0.30256	12.566	-0.013590	-1.6859	7.2953E-6
	27.00000	-17.00000	13.00000	-0.28823	12.566	-0.012398	-1.6168	7.0136E-6
	28.00000	-17.00000	13.00000	-0.27309	12.566	-0.011279	-1.5481	6.7316E-6
	29.00000	-17.00000	13.00000	-0.25722	12.566	-0.010239	-1.4801	6.4509E-6
	30.00000	-17.00000	13.00000	-0.24076	12.566	-0.0092777	-1.4131	6.1728E-6
	31.00000	-17.00000	13.00000	-0.22384	12.566	-0.0083952	-1.3475	5.8986E-6
	32.00000	-17.00000	13.00000	-0.20659	12.566	-0.0075889	-1.2835	5.6294E-6
	33.00000	-17.00000	13.00000	-0.18915	12.566	-0.0068553	-1.2212	5.3662E-6
	34.00000	-17.00000	13.00000	-0.17170	12.566	-0.0061902	-1.1609	5.1098E-6
	35.00000	-17.00000	13.00000	-0.15437	12.566	-0.0055887	-1.1025	4.8610E-6
	36.00000	-17.00000	13.00000	-0.13732	12.566	-0.0050460	-1.0463	4.6202E-6
	37.00000	-17.00000	13.00000	-0.12069	12.566	-0.0045572	-0.99235	4.3801E-6
	38.00000	-17.00000	13.00000	-0.10461	12.566	-0.0041173	-0.94065	4.1650E-6
	39.00000	-17.00000	13.00000	-0.089198	12.566	-0.0037220	-0.89124	3.9511E-6
	40.00000	-17.00000	13.00000	-0.074539	12.566	-0.0033669	-0.84415	3.7467E-6
	41.00000	-17.00000	13.00000	-0.060712	12.566	-0.0030479	-0.79936	3.5517E-6
	42.00000	-17.00000	13.00000	-0.047771	12.566	-0.0027615	-0.75684	3.3662E-6
	43.00000	-17.00000	13.00000	-0.035751	12.566	-0.0025043	-0.71655	3.1900E-6
	44.00000	-17.00000	13.00000	-0.024666	12.566	-0.0022732	-0.67843	3.0230E-6
	45.00000	-17.00000	13.00000	-0.014518	12.566	-0.0020655	-0.64241	2.8648E-6
	46.00000	-17.00000	13.00000	-0.0052907	12.566	-0.0018788	-0.60841	2.7153E-6
	47.00000	-17.00000	13.00000	0.0030413	12.566	-0.0017108	-0.57635	2.5741E-6
	48.00000	-17.00000	13.00000	0.010514	12.566	-0.0015594	-0.54614	2.4409E-6
	49.00000	-17.00000	13.00000	0.017169	12.566	-0.0014230	-0.51768	2.3152E-6
	50.00000	-17.00000	13.00000	0.023054	12.566	-0.0013000	-0.49090	2.1968E-6
	51.00000	-17.00000	13.00000	0.028220	12.566	-0.0011890	-0.46569	2.0852E-6
	52.00000	-17.00000	13.00000	0.032719	12.566	-0.0010886	-0.44197	1.9801E-6
	53.00000	-17.00000	13.00000	0.036603	12.566	-997.76E-6	-0.41966	1.8811E-6
	54.00000	-17.00000	13.00000	0.039924	12.566	-915.51E-6	-0.39866	1.7878E-6
	55.00000	-17.00000	13.00000	0.042731	12.566	-840.96E-6	-0.37890	1.7000E-6
	-25.00000	-16.00000	13.00000	0.039493	12.566	-0.0021832	-0.53499	2.3732E-6
	-24.00000	-16.00000	13.00000	0.036986	12.566	-0.0024096	-0.56544	2.5054E-6
	-23.00000	-16.00000	13.00000	0.034003	12.566	-0.0026628	-0.59794	2.6463E-6
	-22.00000	-16.00000	13.00000	0.030489	12.566	-0.0029462	-0.63265	2.7964E-6
	-21.00000	-16.00000	13.00000	0.026389	12.566	-0.0032636	-0.66972	2.9563E-6
	-20.00000	-16.00000	13.00000	0.021642	12.566	-0.0036193	-0.70930	3.1266E-6
	-19.00000	-16.00000	13.00000	0.016186	12.566	-0.0040181	-0.75155	3.3078E-6
	-18.00000	-16.00000	13.00000	0.0099554	12.566	-0.0044653	-0.79663	3.5006E-6
	-17.00000	-16.00000	13.00000	0.0028838	12.566	-0.0049666	-0.84470	3.7055E-6
	-16.00000	-16.00000	13.00000	-0.0050960	12.566	-0.0055285	-0.89592	3.9231E-6
	-15.00000	-16.00000	13.00000	-0.014050	12.566	-0.0061577	-0.95044	4.1539E-6
	-14.00000	-16.00000	13.00000	-0.024040	12.566	-0.0068615	-1.0084	4.3982E-6
	-13.00000	-16.00000	13.00000	-0.035124	12.566	-0.0076472	-1.0699	4.6563E-6
	-12.00000	-16.00000	13.00000	-0.047351	12.566	-0.0085221	-1.1350	4.9284E-6
	-11.00000	-16.00000	13.00000	-0.060759	12.566	-0.0094934	-1.2037	5.2145E-6
	-10.00000	-16.00000	13.00000	-0.075370	12.566	-0.010567	-1.2761	5.5143E-6
	-9.00000	-16.00000	13.00000	-0.091189	12.566	-0.011749	-1.3520	5.8272E-6
	-8.00000	-16.00000	13.00000	-0.10820	12.566	-0.013041	-1.4312	6.1524E-6
	-7.00000	-16.00000	13.00000	-0.12635	12.566	-0.014443	-1.5136	6.4886E-6
	-6.00000	-16.00000	13.00000	-0.14557	12.566	-0.015952	-1.5986	6.8342E-6
	-5.00000	-16.00000	13.00000	-0.16576	12.566	-0.017561	-1.6859	7.1871E-6
	-4.00000	-16.00000	13.00000	-0.18678	12.566	-0.019256	-1.7748	7.5499E-6
	-3.00000	-16.00000	13.00000	-0.20845	12.566	-0.021019	-1.8644	7.9045E-6
	-2.00000	-16.00000	13.00000	-0.23058	12.566	-0.022827	-1.9540	8.2626E-6
	-1.00000	-16.00000	13.00000	-0.25295	12.566	-0.024653	-2.0426	8.6157E-6
	0.00000	-16.00000	13.00000	-0.27531	12.566	-0.026464	-2.1292	8.9598E-6
	1.00000	-16.00000	13.00000	-0.29741	12.566	-0.028228	-2.2126	9.2910E-6
	2.00000	-16.00000	13.00000	-0.31901	12.566	-0.029909	-2.2918	9.6052E-6
	3.00000	-16.00000	13.00000	-0.33984	12.566	-0.031474	-2.3657	9.8986E-6
	4.00000	-16.00000	13.00000	-0.35968	12.566	-0.032893	-2.4333	10.167E-6
	5.00000	-16.00000	13.00000	-0.37832	12.566	-0.034140	-2.4938	10.408E-6
	6.00000	-16.00000	13.00000	-0.39557	12.566	-0.035190	-2.5463	10.618E-6
	7.00000	-16.00000	13.00000	-0.41128	12.566	-0.036026	-2.5902	10.795E-6
	8.00000	-16.00000	13.00000	-0.42532	12.566	-0.036634	-2.6249	10.936E-6
	9.00000	-16.00000	13.00000	-0.43760	12.566	-0.037005	-2.6501	11.041E-6
	10.00000	-16.00000	13.00000	-0.44804	12.566	-0.037133	-2.6655	11.108E-6
	11.00000	-16.00000	13.00000	-0.45660	12.566	-0.037016	-2.6710	11.136E-6
	12.00000	-16.00000	13.00000	-0.46327	12.566	-0.036657	-2.6668	11.126E-6
	13.00000	-16.00000	13.00000	-0.46803	12.566	-0.036061	-2.6528	11.079E-6
	14.00000	-16.00000	13.00000	-0.47090	12.566	-0.035237	-2.6294	10.995E-6
	15.00000	-16.00000	13.00000	-0.47192	12.566	-0.034198	-2.5971	10.877E-6
	16.00000	-16.00000	13.00000	-0.47110	12.566	-0.032964	-2.5564	10.725E-6
	17.00000	-16.00000	13.00000	-0.46850	12.566	-0.031556	-2.5079	10.543E-6
	18.00000	-16.00000	13.00000	-0.46417	12.566	-0.030002	-2.4524	10.333E-6
	19.00000	-16.00000	13.00000	-0.45816	12.566	-0.028332	-2.3907	10.098E-6
	20.00000	-16.00000	13.00000	-0.45052	12.566	-0.026579	-2.3237	9.8411E-6
	21.00000	-16.00000	13.00000	-0.44132	12.566	-0.024778	-2.2523	9.5656E-6
	22.00000	-16.00000	13.00000	-0.43060	12.566	-0.022961	-2.1774	9.2747E-6
	23.00000	-16.00000	13.00000	-0.41845	12.566	-0.021160	-2.0999	8.9714E-6
	24.00000	-16.00000	13.00000	-0.40493	12.566	-0.019403	-2.0206	8.6589E-6
	25.00000	-16.00000	13.00000	-0.39010	12.566	-0.017713	-1.9403	8.3399E-6
	26.00000	-16.00000	13.00000	-0.37406	12.566	-0.016108	-1.8597	8.0169E-6
	27.00000	-16.00000	13.00000	-0.35690	12.566	-0.014600	-1.7793	7.6924E-6
	28.00000	-16.00000	13.00000	-0.33872	12.566	-0.013198	-1.6996	7.3683E-6
	29.00000	-16.00000	13.00000	-0.31966	12.566	-0.011905	-1.6211	7.0465E-6
	30.00000	-16.00000	13.00000	-0.29984	12.566	-0.010720	-1	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
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Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
-10.00000	-15.00000	13.00000	-0.096811	12.566	-0.012233	-1.3798	5.9404E-6
-9.00000	-15.00000	13.00000	-0.11560	12.566	-0.013696	-1.4668	6.2961E-6
-8.00000	-15.00000	13.00000	-0.13587	12.566	-0.015312	-1.5581	6.6675E-6
-7.00000	-15.00000	13.00000	-0.15757	12.566	-0.017083	-1.6536	7.0533E-6
-6.00000	-15.00000	13.00000	-0.18064	12.566	-0.019008	-1.7528	7.4516E-6
-5.00000	-15.00000	13.00000	-0.20493	12.566	-0.021078	-1.8550	7.8603E-6
-4.00000	-15.00000	13.00000	-0.23030	12.566	-0.023277	-1.9597	8.2762E-6
-3.00000	-15.00000	13.00000	-0.25652	12.566	-0.025583	-2.0658	8.6958E-6
-2.00000	-15.00000	13.00000	-0.28336	12.566	-0.027964	-2.1724	9.1153E-6
-1.00000	-15.00000	13.00000	-0.31053	12.566	-0.030381	-2.2781	9.5300E-6
0.00000	-15.00000	13.00000	-0.33772	12.566	-0.032789	-2.3816	9.9325E-6
1.00000	-15.00000	13.00000	-0.36462	12.566	-0.035140	-2.4817	10.326E-6
2.00000	-15.00000	13.00000	-0.39090	12.566	-0.037385	-2.5768	10.697E-6
3.00000	-15.00000	13.00000	-0.41625	12.566	-0.039477	-2.6657	11.044E-6
4.00000	-15.00000	13.00000	-0.44037	12.566	-0.041374	-2.7470	11.363E-6
5.00000	-15.00000	13.00000	-0.46301	12.566	-0.043037	-2.8197	11.648E-6
6.00000	-15.00000	13.00000	-0.48393	12.566	-0.044437	-2.8828	11.896E-6
7.00000	-15.00000	13.00000	-0.50295	12.566	-0.045550	-2.9354	12.105E-6
8.00000	-15.00000	13.00000	-0.51992	12.566	-0.046358	-2.9769	12.272E-6
9.00000	-15.00000	13.00000	-0.53473	12.566	-0.046850	-3.0068	12.395E-6
10.00000	-15.00000	13.00000	-0.54731	12.566	-0.047020	-3.0255	12.472E-6
11.00000	-15.00000	13.00000	-0.55760	12.566	-0.046865	-3.0312	12.505E-6
12.00000	-15.00000	13.00000	-0.56560	12.566	-0.046387	-3.0255	12.492E-6
13.00000	-15.00000	13.00000	-0.57131	12.566	-0.045594	-3.0081	12.435E-6
14.00000	-15.00000	13.00000	-0.57476	12.566	-0.044496	-2.9794	12.334E-6
15.00000	-15.00000	13.00000	-0.57598	12.566	-0.043111	-2.9376	12.193E-6
16.00000	-15.00000	13.00000	-0.57503	12.566	-0.041463	-2.8904	12.012E-6
17.00000	-15.00000	13.00000	-0.57194	12.566	-0.039582	-2.8316	11.796E-6
18.00000	-15.00000	13.00000	-0.56680	12.566	-0.037504	-2.7644	11.547E-6
19.00000	-15.00000	13.00000	-0.55966	12.566	-0.035274	-2.6899	11.269E-6
20.00000	-15.00000	13.00000	-0.55059	12.566	-0.032936	-2.6093	10.967E-6
21.00000	-15.00000	13.00000	-0.53965	12.566	-0.030541	-2.5237	10.643E-6
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23.00000	-15.00000	13.00000	-0.51245	12.566	-0.025766	-2.3420	9.9468E-6
24.00000	-15.00000	13.00000	-0.49633	12.566	-0.023468	-2.2481	9.5824E-6
25.00000	-15.00000	13.00000	-0.47864	12.566	-0.021275	-2.1534	9.2116E-6
26.00000	-15.00000	13.00000	-0.45947	12.566	-0.019209	-2.0587	8.8373E-6
27.00000	-15.00000	13.00000	-0.43892	12.566	-0.017287	-1.9647	8.4623E-6
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29.00000	-15.00000	13.00000	-0.39418	12.566	-0.013897	-1.7809	7.7190E-6
30.00000	-15.00000	13.00000	-0.37031	12.566	-0.012420	-1.6913	7.3545E-6
31.00000	-15.00000	13.00000	-0.34568	12.566	-0.011106	-1.6054	6.9969E-6
32.00000	-15.00000	13.00000	-0.32050	12.566	-0.0099173	-1.5214	6.6475E-6
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38.00000	-15.00000	13.00000	-0.17138	12.566	-0.0050537	-1.0812	4.7785E-6
39.00000	-15.00000	13.00000	-0.14898	12.566	-0.0045287	-1.0192	4.5110E-6
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41.00000	-15.00000	13.00000	-0.10785	12.566	-0.0036491	-0.90513	4.0163E-6
42.00000	-15.00000	13.00000	-0.089292	12.566	-0.0032816	-0.85291	3.7888E-6
43.00000	-15.00000	13.00000	-0.072141	12.566	-0.0029551	-0.80378	3.5743E-6
44.00000	-15.00000	13.00000	-0.056407	12.566	-0.0026645	-0.75762	3.3724E-6
45.00000	-15.00000	13.00000	-0.042073	12.566	-0.0024059	-0.71432	3.1825E-6
46.00000	-15.00000	13.00000	-0.029101	12.566	-0.0021753	-0.67372	3.0042E-6
47.00000	-15.00000	13.00000	-0.017438	12.566	-0.0019696	-0.63570	2.8369E-6
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50.00000	-15.00000	13.00000	0.010395	12.566	-0.0014745	-0.53565	2.3954E-6
51.00000	-15.00000	13.00000	0.017551	12.566	-0.0013420	-0.50645	2.2663E-6
52.00000	-15.00000	13.00000	0.023781	12.566	-0.0012234	-0.47916	2.1455E-6
53.00000	-15.00000	13.00000	0.029168	12.566	-0.0011168	-0.45361	2.0322E-6
54.00000	-15.00000	13.00000	0.033788	12.566	-0.0010207	-0.42970	1.9261E-6
55.00000	-15.00000	13.00000	0.037716	12.566	-0.0010176	-0.40733	1.8266E-6
-25.00000	-14.00000	13.00000	0.035541	12.566	-0.0025312	-0.58189	2.5769E-6
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-23.00000	-14.00000	13.00000	0.028140	12.566	-0.0031272	-0.65478	2.8921E-6
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-19.00000	-14.00000	13.00000	0.0043041	12.566	-0.0048669	-0.83622	3.6697E-6
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-14.00000	-14.00000	13.00000	-0.050082	12.566	-0.0087482	-1.1509	4.9947E-6
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-12.00000	-14.00000	13.00000	-0.082137	12.566	-0.011142	-1.3112	5.6583E-6
-11.00000	-14.00000	13.00000	-0.10075	12.566	-0.012589	-1.3995	6.0213E-6
-10.00000	-14.00000	13.00000	-0.12118	12.566	-0.014205	-1.4939	6.4055E-6
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-8.00000	-14.00000	13.00000	-0.16758	12.566	-0.018062	-1.6996	7.2355E-6
-7.00000	-14.00000	13.00000	-0.19352	12.566	-0.020317	-1.8107	7.6793E-6
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-5.00000	-14.00000	13.00000	-0.25042	12.566	-0.025486	-2.0474	8.6146E-6
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-2.00000	-14.00000	13.00000	-0.34540	12.566	-0.034607	-2.4255	10.085E-6
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1.00000	-14.00000	13.00000	-0.44436	12.566	-0.044282	-2.7984	11.517E-6
2.00000	-14.00000	13.00000	-0.47640	12.566	-0.047324	-2.9136	11.958E-6
3.00000	-14.00000	13.00000	-0.50728	12.566	-0.050159	-3.0213	12.370E-6
4.00000	-14.00000	13.00000	-0.53665	12.566	-0.052726	-3.1199	12.748E-6
5.00000	-14.00000	13.00000	-0.56416	12.566	-0.0554973	-3.2079	13.087E-6
6.00000	-14.00000	13.00000	-0.58954	12.566	-0.058660	-3.2841	13.382E-6
7.00000	-14.00000	13.00000	-0.61257	12.566	-0.058356	-3.3476	13.630E-6
8.00000	-14.00000	13.00000	-0.63307	12.566	-0.059440	-3.3975	13.828E-6
9.00000	-14.00000	13.00000	-0.65092	12.566	-0.060909	-3.4332	13.973E-6
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11.00000	-14.00000	13.00000	-0.67840	12.566	-0.060118	-3.4617	14.101E-6
12.00000	-14.00000	13.00000	-0.68798	12.566	-0.059477	-3.4541	14.084E-6
13.00000	-14.00000	13.00000	-0.69481	12.566	-0.058411	-3.4324	14.014E-6
14.00000	-14.00000	13.00000	-0.69892	12.566	-0.056934	-3.3969	13.893E-6
15.00000	-14.00000	13.00000	-0.70037	12.566	-0.055067	-3.3484	13.723E-6
16.00000	-14.00000	13.00000	-0.69923	12.566	-0.052839	-3.2876	13.508E-6
17.00000	-14.00000	13.00000	-0.69557	12.566	-0.050293	-3.2157	13.250E-6
18.00000	-14.00000	13.00000	-0.68945	12.566	-0.047477	-3.1338	12.955E-6
19.00000	-14.00000	13.00000	-0.68097	12.566	-0.044455	-3.0423	12.625E-6
20.00000	-14.00000	13.00000	-0.67019	12.566	-0.041292	-2.9455	12.267E-6
21.00000	-14.00000	13.00000	-0.65719	12.566	-0.038061	-2.8420	11.885E-6
22.00000	-14.00000	13.00000	-0.64206	12.566	-0.034832	-2.7344	11.484E-6
23.00000	-14.00000	13.00000	-0.62486	12.566	-		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
39.00000	-14.00000	13.00000	-0.18655	12.566	-0.0049973	-1.0921	4.8299E-6
40.00000	-14.00000	13.00000	-0.16103	12.566	-0.0044634	-1.0264	4.5455E-6
41.00000	-14.00000	13.00000	-0.13713	12.566	-0.0039922	-0.96454	4.2771E-6
42.00000	-14.00000	13.00000	-0.11494	12.566	-0.0035761	-0.90648	4.0244E-6
43.00000	-14.00000	13.00000	-0.094492	12.566	-0.0032083	-0.85208	3.7871E-6
44.00000	-14.00000	13.00000	-0.075798	12.566	-0.0028828	-0.80118	3.5645E-6
45.00000	-14.00000	13.00000	-0.058822	12.566	-0.0025944	-0.75361	3.3560E-6
46.00000	-14.00000	13.00000	-0.043508	12.566	-0.0023385	-0.70919	3.1610E-6
47.00000	-14.00000	13.00000	-0.029779	12.566	-0.0021112	-0.66774	2.9788E-6
48.00000	-14.00000	13.00000	-0.017545	12.566	-0.0019089	-0.62907	2.8084E-6
49.00000	-14.00000	13.00000	-0.0067083	12.566	-0.0017287	-0.59301	2.6494E-6
50.00000	-14.00000	13.00000	0.0028342	12.566	-0.0015678	-0.55937	2.5008E-6
51.00000	-14.00000	13.00000	0.011187	12.566	-0.0014241	-0.52800	2.3621E-6
52.00000	-14.00000	13.00000	0.018453	12.566	-0.0012954	-0.49873	2.2325E-6
53.00000	-14.00000	13.00000	0.024733	12.566	-0.0011800	-0.47141	2.1114E-6
54.00000	-14.00000	13.00000	0.030121	12.566	-0.0010764	-0.44591	1.9983E-6
55.00000	-14.00000	13.00000	0.034707	12.566	-983.27E-6	-0.42208	1.8925E-6
-25.00000	-13.00000	13.00000	0.033242	12.566	-0.0027219	-0.60644	2.6833E-6
-24.00000	-13.00000	13.00000	0.029349	12.566	-0.0030326	-0.64415	2.8464E-6
-23.00000	-13.00000	13.00000	0.024750	12.566	-0.0033849	-0.68478	3.0215E-6
-22.00000	-13.00000	13.00000	-0.003957	12.566	-0.0037852	-0.72958	3.2097E-6
-21.00000	-13.00000	13.00000	0.013075	12.566	-0.0042408	-0.77581	3.4121E-6
-20.00000	-13.00000	13.00000	0.0058017	12.566	-0.0047603	-0.82679	3.6297E-6
-19.00000	-13.00000	13.00000	-0.0025758	12.566	-0.0053535	-0.88182	3.8638E-6
-18.00000	-13.00000	13.00000	-0.012177	12.566	-0.0060318	-0.94124	4.1155E-6
-17.00000	-13.00000	13.00000	-0.021218	12.566	-0.0068095	-1.0054	4.3861E-6
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-15.00000	-13.00000	13.00000	-0.049613	12.566	-0.0087199	-1.1495	4.9892E-6
-14.00000	-13.00000	13.00000	-0.065422	12.566	-0.0098914	-1.2302	5.3243E-6
-13.00000	-13.00000	13.00000	-0.083122	12.566	-0.011235	-1.3173	5.6834E-6
-12.00000	-13.00000	13.00000	-0.10284	12.566	-0.012778	-1.4108	6.0673E-6
-11.00000	-13.00000	13.00000	-0.12469	12.566	-0.014537	-1.5116	6.4769E-6
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-7.00000	-13.00000	13.00000	-0.23480	12.566	-0.024304	-1.9878	8.3740E-6
-6.00000	-13.00000	13.00000	-0.26798	12.566	-0.027524	-2.1241	8.9080E-6
-5.00000	-13.00000	13.00000	-0.30319	12.566	-0.031065	-2.2670	9.4612E-6
-4.00000	-13.00000	13.00000	-0.34022	12.566	-0.034907	-2.4151	10.030E-6
-3.00000	-13.00000	13.00000	-0.37874	12.566	-0.039012	-2.5669	10.608E-6
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1.00000	-13.00000	13.00000	-0.53915	12.566	-0.056582	-3.1745	12.891E-6
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3.00000	-13.00000	13.00000	-0.61598	12.566	-0.064672	-3.4468	13.909E-6
4.00000	-13.00000	13.00000	-0.65177	12.566	-0.068196	-3.5673	14.361E-6
5.00000	-13.00000	13.00000	-0.68524	12.566	-0.071272	-3.6747	14.765E-6
6.00000	-13.00000	13.00000	-0.71606	12.566	-0.073845	-3.7675	15.117E-6
7.00000	-13.00000	13.00000	-0.74394	12.566	-0.075878	-3.8446	15.412E-6
8.00000	-13.00000	13.00000	-0.76870	12.566	-0.077347	-3.9050	15.647E-6
9.00000	-13.00000	13.00000	-0.79019	12.566	-0.078238	-3.9481	15.818E-6
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12.00000	-13.00000	13.00000	-0.83459	12.566	-0.077393	-3.9711	15.946E-6
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19.00000	-13.00000	13.00000	-0.82618	12.566	-0.056809	-3.4639	14.201E-6
20.00000	-13.00000	13.00000	-0.81338	12.566	-0.052458	-3.3444	13.777E-6
21.00000	-13.00000	13.00000	-0.79795	12.566	-0.048026	-3.2184	13.325E-6
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24.00000	-13.00000	13.00000	-0.73668	12.566	-0.035241	-2.8202	11.863E-6
25.00000	-13.00000	13.00000	-0.71153	12.566	-0.031411	-2.6862	11.358E-6
26.00000	-13.00000	13.00000	-0.68416	12.566	-0.027878	-2.5535	10.851E-6
27.00000	-13.00000	13.00000	-0.65470	12.566	-0.024661	-2.4232	10.346E-6
28.00000	-13.00000	13.00000	-0.62327	12.566	-0.021765	-2.2959	9.8461E-6
29.00000	-13.00000	13.00000	-0.59007	12.566	-0.019180	-2.1720	9.3534E-6
30.00000	-13.00000	13.00000	-0.55532	12.566	-0.016887	-2.0520	8.8701E-6
31.00000	-13.00000	13.00000	-0.51930	12.566	-0.014864	-1.9360	8.3979E-6
32.00000	-13.00000	13.00000	-0.48235	12.566	-0.013086	-1.8243	7.9384E-6
33.00000	-13.00000	13.00000	-0.44483	12.566	-0.011527	-1.7170	7.4930E-6
34.00000	-13.00000	13.00000	-0.40715	12.566	-0.010162	-1.6142	7.0630E-6
35.00000	-13.00000	13.00000	-0.36972	12.566	-0.0089685	-1.5161	6.6496E-6
36.00000	-13.00000	13.00000	-0.33296	12.566	-0.0079248	-1.4228	6.2538E-6
37.00000	-13.00000	13.00000	-0.29726	12.566	-0.0070121	-1.3344	5.8764E-6
38.00000	-13.00000	13.00000	-0.26295	12.566	-0.0062139	-1.2508	5.5181E-6
39.00000	-13.00000	13.00000	-0.23031	12.566	-0.0055152	-1.1721	5.1792E-6
40.00000	-13.00000	13.00000	-0.19959	12.566	-0.0049032	-1.0981	4.8597E-6
41.00000	-13.00000	13.00000	-0.17091	12.566	-0.0043666	-1.0289	4.5595E-6
42.00000	-13.00000	13.00000	-0.14439	12.566	-0.0038956	-0.96420	4.2782E-6
43.00000	-13.00000	13.00000	-0.12005	12.566	-0.0034816	-0.9038	4.0150E-6
44.00000	-13.00000	13.00000	-0.097875	12.566	-0.0031171	-0.84761	3.7693E-6
45.00000	-13.00000	13.00000	-0.077816	12.566	-0.0027958	-0.79529	3.5401E-6
46.00000	-13.00000	13.00000	-0.059784	12.566	-0.0025121	-0.74664	3.3266E-6
47.00000	-13.00000	13.00000	-0.043673	12.566	-0.0022612	-0.70142	3.1278E-6
48.00000	-13.00000	13.00000	-0.029362	12.566	-0.0020380	-0.65948	2.9428E-6
49.00000	-13.00000	13.00000	-0.016720	12.566	-0.0018415	-0.62036	2.7707E-6
50.00000	-13.00000	13.00000	-0.0056140	12.566	-0.0016660	-0.58407	2.6104E-6
51.00000	-13.00000	13.00000	0.0040882	12.566	-0.0015097	-0.55033	2.4613E-6
52.00000	-13.00000	13.00000	0.012516	12.566	-0.0013702	-0.51895	2.3224E-6
53.00000	-13.00000	13.00000	0.019792	12.566	-0.0012456	-0.48977	2.1930E-6
54.00000	-13.00000	13.00000	0.026035	12.566	-0.0011340	-0.46255	2.0724E-6
55.00000	-13.00000	13.00000	0.031351	12.566	-0.0010340	-0.43721	1.9599E-6
-25.00000	-12.00000	13.00000	0.030727	12.566	-0.0029238	-0.63167	2.7926E-6
-24.00000	-12.00000	13.00000	0.026289	12.566	-0.0032680	-0.67210	2.9670E-6
-23.00000	-12.00000	13.00000	0.021050	12.566	-0.0036600	-0.71579	3.1550E-6
-22.00000	-12.00000	13.00000	0.014910	12.566	-0.0041081	-0.76304	3.3576E-6
-21.00000	-12.00000	13.00000	0.0077543	12.566	-0.0046208	-0.81417	3.5762E-6
-20.00000	-12.00000	13.00000	-538.98E-6	12.566	-0.0052089	-0.86956	3.8120E-6
-19.00000	-12.00000	13.00000	-0.010104	12.566	-0.0058847	-0.92959	4.0665E-6
-18.00000	-12.00000	13.00000	-0.021087	12.566	-0.0066300	-0.99468	4.3413E-6
-17.00000	-12.00000	13.00000	-0.033643	12.566	-0.0075610	-1.0653	4.6379E-6
-16.00000	-12.00000	13.00000	-0.047937	12.566	-0.0085987	-1.1419	4.9581E-6
-15.00000	-12.00000	13.00000	-0.064141	12.566	-0.0097995	-1.2251	5.3035E-6
-14.00000	-12.00000	13.00000	-0.082432	12.566	-0.0111190	-1.3154	5.6759E-6
-13.00000	-12.00000	13.00000	-0.10299	12.566	-0.012808	-1.4139	6.0769E-6
-12.00000	-12.00000	13.00000	-0.12598	12.566	-0.014670	-1.5192	6.5080E-6
-11.00000	-12.00000	13.00000	-0.15157	12.566	-0.016832	-1.6339	6.9705E-6
-10.00000	-12.00000	13.00000	-0.17990	12.566	-0.019330	-1.	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
7.00000	-12.00000	13.00000	-0.90178	12.566	-0.10033	-4.4503	17.499E-6
8.00000	-12.00000	13.00000	-0.93167	12.566	-0.10234	-4.5238	17.779E-6
9.00000	-12.00000	13.00000	-0.95753	12.566	-0.10355	-4.5759	17.982E-6
10.00000	-12.00000	13.00000	-0.97930	12.566	-0.10397	-4.6062	18.109E-6
11.00000	-12.00000	13.00000	-0.99698	12.566	-0.10358	-4.6146	18.158E-6
12.00000	-12.00000	13.00000	-1.0106	12.566	-0.10240	-4.6012	18.129E-6
13.00000	-12.00000	13.00000	-1.0203	12.566	-0.10042	-4.5665	18.025E-6
14.00000	-12.00000	13.00000	-1.0260	12.566	-0.097660	-4.5112	17.849E-6
15.00000	-12.00000	13.00000	-1.0280	12.566	-0.094140	-4.4361	17.604E-6
16.00000	-12.00000	13.00000	-1.0263	12.566	-0.089906	-4.3426	17.294E-6
17.00000	-12.00000	13.00000	-1.0220	12.566	-0.085027	-4.2324	16.926E-6
18.00000	-12.00000	13.00000	-1.0123	12.566	-0.079603	-4.1073	16.505E-6
19.00000	-12.00000	13.00000	-1.0003	12.566	-0.073764	-3.9698	16.039E-6
20.00000	-12.00000	13.00000	-0.98514	12.566	-0.067663	-3.8223	15.535E-6
21.00000	-12.00000	13.00000	-0.96683	12.566	-0.061466	-3.6674	15.000E-6
22.00000	-12.00000	13.00000	-0.94549	12.566	-0.055336	-3.5077	14.441E-6
23.00000	-12.00000	13.00000	-0.92120	12.566	-0.049420	-3.3456	13.865E-6
24.00000	-12.00000	13.00000	-0.89404	12.566	-0.043836	-3.1831	13.278E-6
25.00000	-12.00000	13.00000	-0.86408	12.566	-0.038667	-3.0220	12.687E-6
26.00000	-12.00000	13.00000	-0.83141	12.566	-0.033961	-2.8637	12.095E-6
27.00000	-12.00000	13.00000	-0.79612	12.566	-0.029736	-2.7091	11.507E-6
28.00000	-12.00000	13.00000	-0.75838	12.566	-0.025984	-2.5589	10.927E-6
29.00000	-12.00000	13.00000	-0.71837	12.566	-0.022681	-2.4135	10.356E-6
30.00000	-12.00000	13.00000	-0.67636	12.566	-0.019791	-2.2732	9.7967E-6
31.00000	-12.00000	13.00000	-0.63269	12.566	-0.017273	-2.1381	9.2512E-6
32.00000	-12.00000	13.00000	-0.58778	12.566	-0.015087	-2.0084	8.7212E-6
33.00000	-12.00000	13.00000	-0.54209	12.566	-0.013191	-1.8842	8.2080E-6
34.00000	-12.00000	13.00000	-0.49615	12.566	-0.011548	-1.7656	7.7134E-6
35.00000	-12.00000	13.00000	-0.45052	12.566	-0.010125	-1.6527	7.2388E-6
36.00000	-12.00000	13.00000	-0.40573	12.566	-0.0088915	-1.5456	6.7855E-6
37.00000	-12.00000	13.00000	-0.36231	12.566	-0.0078219	-1.4444	6.3547E-6
38.00000	-12.00000	13.00000	-0.32068	12.566	-0.0068936	-1.3492	5.9472E-6
39.00000	-12.00000	13.00000	-0.28122	12.566	-0.0060871	-1.2600	5.5633E-6
40.00000	-12.00000	13.00000	-0.24420	12.566	-0.0053856	-1.1765	5.2030E-6
41.00000	-12.00000	13.00000	-0.20980	12.566	-0.0047746	-1.0988	4.8661E-6
42.00000	-12.00000	13.00000	-0.17811	12.566	-0.0042416	-1.0265	4.5518E-6
43.00000	-12.00000	13.00000	-0.14916	12.566	-0.0037758	-0.95933	4.2593E-6
44.00000	-12.00000	13.00000	-0.12290	12.566	-0.0033680	-0.89712	3.9875E-6
45.00000	-12.00000	13.00000	-0.099251	12.566	-0.0030104	-0.83949	3.7352E-6
46.00000	-12.00000	13.00000	-0.078077	12.566	-0.0026962	-0.78616	3.5013E-6
47.00000	-12.00000	13.00000	-0.059231	12.566	-0.0024195	-0.73680	3.2844E-6
48.00000	-12.00000	13.00000	-0.042549	12.566	-0.0021754	-0.69112	3.0833E-6
49.00000	-12.00000	13.00000	-0.027860	12.566	-0.0019596	-0.64884	2.8970E-6
50.00000	-12.00000	13.00000	-0.014991	12.566	-0.0017685	-0.60969	2.7241E-6
51.00000	-12.00000	13.00000	-0.0037760	12.566	-0.0015988	-0.57341	2.5638E-6
52.00000	-12.00000	13.00000	0.0059478	12.566	-0.0014479	-0.53978	2.4150E-6
53.00000	-12.00000	13.00000	0.014332	12.566	-0.0013135	-0.50857	2.2768E-6
54.00000	-12.00000	13.00000	0.021519	12.566	-0.0011935	-0.47960	2.1483E-6
55.00000	-12.00000	13.00000	0.027639	12.566	-0.0010862	-0.45268	2.0288E-6
-25.00000	-11.00000	13.00000	0.028000	12.566	-0.0031367	-0.65753	2.9043E-6
-24.00000	-11.00000	13.00000	0.022973	12.566	-0.0035173	-0.70082	3.0908E-6
-23.00000	-11.00000	13.00000	0.017044	12.566	-0.0039531	-0.74774	3.2923E-6
-22.00000	-11.00000	13.00000	0.010092	12.566	-0.0044534	-0.79866	3.5102E-6
-21.00000	-11.00000	13.00000	0.0019860	12.566	-0.0050293	-0.85396	3.7459E-6
-20.00000	-11.00000	13.00000	-0.0074209	12.566	-0.0056938	-0.91408	4.0012E-6
-19.00000	-11.00000	13.00000	-0.018289	12.566	-0.0064627	-0.97950	4.2777E-6
-18.00000	-11.00000	13.00000	-0.030795	12.566	-0.0073545	-1.0508	4.5774E-6
-17.00000	-11.00000	13.00000	-0.045128	12.566	-0.0083914	-1.1284	4.9023E-6
-16.00000	-11.00000	13.00000	-0.061492	12.566	-0.0095999	-1.2131	5.2545E-6
-15.00000	-11.00000	13.00000	-0.080104	12.566	-0.011011	-1.3056	5.6363E-6
-14.00000	-11.00000	13.00000	-0.101119	12.566	-0.012663	-1.4065	6.0500E-6
-13.00000	-11.00000	13.00000	-0.12498	12.566	-0.014598	-1.5165	6.4978E-6
-12.00000	-11.00000	13.00000	-0.15171	12.566	-0.016867	-1.6366	6.9820E-6
-11.00000	-11.00000	13.00000	-0.18160	12.566	-0.019527	-1.7675	7.5044E-6
-10.00000	-11.00000	13.00000	-0.21485	12.566	-0.022643	-1.9099	8.0668E-6
-9.00000	-11.00000	13.00000	-0.25163	12.566	-0.026285	-2.0644	8.6701E-6
-8.00000	-11.00000	13.00000	-0.29205	12.566	-0.030522	-2.2315	9.3146E-6
-7.00000	-11.00000	13.00000	-0.33616	12.566	-0.035423	-2.4116	9.9996E-6
-6.00000	-11.00000	13.00000	-0.38389	12.566	-0.041043	-2.6043	10.723E-6
-5.00000	-11.00000	13.00000	-0.43508	12.566	-0.047412	-2.8092	11.480E-6
-4.00000	-11.00000	13.00000	-0.48940	12.566	-0.054526	-3.0249	12.267E-6
-3.00000	-11.00000	13.00000	-0.54640	12.566	-0.062327	-3.2494	13.075E-6
-2.00000	-11.00000	13.00000	-0.60545	12.566	-0.070696	-3.4802	13.896E-6
-1.00000	-11.00000	13.00000	-0.66580	12.566	-0.079453	-3.7136	14.719E-6
0.00000	-11.00000	13.00000	-0.72659	12.566	-0.088365	-3.9458	15.532E-6
1.00000	-11.00000	13.00000	-0.78698	12.566	-0.097166	-4.1724	16.322E-6
2.00000	-11.00000	13.00000	-0.84576	12.566	-0.10559	-4.3891	17.078E-6
3.00000	-11.00000	13.00000	-0.90234	12.566	-0.11339	-4.5917	17.786E-6
4.00000	-11.00000	13.00000	-0.95584	12.566	-0.12036	-4.7765	18.436E-6
5.00000	-11.00000	13.00000	-1.0056	12.566	-0.12638	-4.9406	19.018E-6
6.00000	-11.00000	13.00000	-1.0511	12.566	-0.13135	-5.0815	19.523E-6
7.00000	-11.00000	13.00000	-1.0920	12.566	-0.13524	-5.1976	19.945E-6
8.00000	-11.00000	13.00000	-1.1281	12.566	-0.13801	-5.2876	20.279E-6
9.00000	-11.00000	13.00000	-1.1592	12.566	-0.13968	-5.3509	20.521E-6
10.00000	-11.00000	13.00000	-1.1852	12.566	-0.14024	-5.3872	20.670E-6
11.00000	-11.00000	13.00000	-1.2063	12.566	-0.13971	-5.3963	20.726E-6
12.00000	-11.00000	13.00000	-1.2225	12.566	-0.13808	-5.3785	20.690E-6
13.00000	-11.00000	13.00000	-1.2339	12.566	-0.13535	-5.3343	20.563E-6
14.00000	-11.00000	13.00000	-1.2406	12.566	-0.13151	-5.2643	20.350E-6
15.00000	-11.00000	13.00000	-1.2428	12.566	-0.12659	-5.1699	20.055E-6
16.00000	-11.00000	13.00000	-1.2407	12.566	-0.12061	-5.0524	19.684E-6
17.00000	-11.00000	13.00000	-1.2344	12.566	-0.11369	-4.9140	19.244E-6
18.00000	-11.00000	13.00000	-1.2240	12.566	-0.10594	-4.7573	18.742E-6
19.00000	-11.00000	13.00000	-1.2098	12.566	-0.097572	-4.5852	18.188E-6
20.00000	-11.00						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	-25.00000	-10.00000	13.00000	0.025066	12.566	-0.0033605	-0.68394	3.0184E-6
	-24.00000	-10.00000	13.00000	0.019409	12.566	-0.0037804	-0.73024	3.2174E-6
	-23.00000	-10.00000	13.00000	0.012738	12.566	-0.0042635	-0.78058	3.4331E-6
	-22.00000	-10.00000	13.00000	0.0049116	12.566	-0.0048211	-0.83537	3.6671E-6
	-21.00000	-10.00000	13.00000	-0.0042233	12.566	-0.0054666	-0.89509	3.9211E-6
	-20.00000	-10.00000	13.00000	-0.014840	12.566	-0.0062160	-0.96028	4.1970E-6
	-19.00000	-10.00000	13.00000	-0.027129	12.566	-0.0070888	-1.0315	4.4971E-6
	-18.00000	-10.00000	13.00000	-0.041302	12.566	-0.0081087	-1.1094	4.8235E-6
	-17.00000	-10.00000	13.00000	-0.057590	12.566	-0.0093041	-1.1948	5.1790E-6
	-16.00000	-10.00000	13.00000	-0.076245	12.566	-0.010710	-1.2883	5.5661E-6
	-15.00000	-10.00000	13.00000	-0.097537	12.566	-0.012367	-1.3910	5.9877E-6
	-14.00000	-10.00000	13.00000	-0.12175	12.566	-0.014327	-1.5037	6.4469E-6
	-13.00000	-10.00000	13.00000	-0.14920	12.566	-0.016650	-1.6276	6.9468E-6
	-12.00000	-10.00000	13.00000	-0.18017	12.566	-0.019408	-1.7637	7.4903E-6
	-11.00000	-10.00000	13.00000	-0.21498	12.566	-0.022688	-1.9131	8.0804E-6
	-10.00000	-10.00000	13.00000	-0.25392	12.566	-0.026588	-2.0771	8.7196E-6
	-9.00000	-10.00000	13.00000	-0.29724	12.566	-0.031221	-2.2567	9.4099E-6
	-8.00000	-10.00000	13.00000	-0.34514	12.566	-0.036707	-2.4529	10.152E-6
	-7.00000	-10.00000	13.00000	-0.39773	12.566	-0.043172	-2.6663	10.946E-6
	-6.00000	-10.00000	13.00000	-0.45500	12.566	-0.050728	-2.8972	11.790E-6
	-5.00000	-10.00000	13.00000	-0.51688	12.566	-0.059458	-3.1451	12.679E-6
	-4.00000	-10.00000	13.00000	-0.58278	12.566	-0.069393	-3.4089	13.608E-6
	-3.00000	-10.00000	13.00000	-0.65237	12.566	-0.080475	-3.6861	14.566E-6
	-2.00000	-10.00000	13.00000	-0.72480	12.566	-0.092542	-3.9734	15.543E-6
	-1.00000	-10.00000	13.00000	-0.79908	12.566	-0.10531	-4.2660	16.525E-6
	0.00000	-10.00000	13.00000	-0.87405	12.566	-0.11840	-4.5581	17.499E-6
	1.00000	-10.00000	13.00000	-0.94846	12.566	-0.13135	-4.8448	18.447E-6
	2.00000	-10.00000	13.00000	-1.0211	12.566	-0.14373	-5.1186	19.354E-6
	3.00000	-10.00000	13.00000	-1.0907	12.566	-0.15512	-5.3743	20.206E-6
	4.00000	-10.00000	13.00000	-1.1564	12.566	-0.16523	-5.6069	20.988E-6
	5.00000	-10.00000	13.00000	-1.2172	12.566	-0.17398	-5.8122	21.688E-6
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	5.00000	-9.000						

Oasys

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.

Sheet No.

Rev.

J15249

Drq. Ref.

Made by

Date

Checked

Name	Location	Displacement	Stresses			
X	Y	Z [Level]	Calc Level	Vert Stress	Sum Princ	Vert Strain
[m]	[m]	[mOD]	[mOD]	[kN/m²]	[kN/m²]	[-]
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49.00000	-8.00000	13.00000	-0.084429	12.566	-0.0024822	3.4502E-6
50.00000	-8.00000	13.00000	-0.062245	12.566	-0.0022177	3.2171E-6
51.00000	-8.00000	13.00000	-0.043149	12.566	-0.0019862	3.0042E-6
52.00000	-8.00000	13.00000	-0.026768	12.566	-0.0017830	2.8094E-6
53.00000	-8.00000	13.00000	-0.012726	12.566	-0.0016042	2.6308E-6
54.00000	-8.00000	13.00000	-839.95E-6	12.566	-0.0014465	2.4667E-6
55.00000	-8.00000	13.00000	0.0092720	12.566	-0.0013069	2.3158E-6
-25.00000	-7.00000	13.00000	0.015140	12.566	-0.0040901	3.3702E-6
-24.00000	-7.00000	13.00000	0.0073564	12.566	-0.0046452	3.6100E-6
-23.00000	-7.00000	13.00000	-0.0018365	12.566	-0.0052916	3.8721E-6
-22.00000	-7.00000	13.00000	-0.012649	12.566	-0.0060522	4.1589E-6
-21.00000	-7.00000	13.00000	-0.025322	12.566	-0.0069457	4.4733E-6
-20.00000	-7.00000	13.00000	-0.040130	12.566	-0.0080024	4.8185E-6
-19.00000	-7.00000	13.00000	-0.057383	12.566	-0.0092582	5.1980E-6
-18.00000	-7.00000	13.00000	-0.077434	12.566	-0.010758	5.6160E-6
-17.00000	-7.00000	13.00000	-0.10068	12.566	-0.012560	6.0769E-6
-16.00000	-7.00000	13.00000	-0.12758	12.566	-0.014736	6.5859E-6
-15.00000	-7.00000	13.00000	-0.15864	12.566	-0.017382	7.1487E-6
-14.00000	-7.00000	13.00000	-0.19441	12.566	-0.020617	7.7715E-6
-13.00000	-7.00000	13.00000	-0.23552	12.566	-0.024598	8.4612E-6
-12.00000	-7.00000	13.00000	-0.28266	12.566	-0.029531	9.2250E-6
-11.00000	-7.00000	13.00000	-0.33655	12.566	-0.035681	10.070E-6
-10.00000	-7.00000	13.00000	-0.39798	12.566	-0.043394	11.005E-6
-9.00000	-7.00000	13.00000	-0.46772	12.566	-0.053118	12.035E-6

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by	Date	Checked
MP		

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-8.00000	-7.00000	13.00000	-0.54656	12.566	-0.065424	-3.2879
	-7.00000	-7.00000	13.00000	-0.63519	12.566	-0.081021	-3.6527
	-6.00000	-7.00000	13.00000	-0.73413	12.566	-0.10075	-4.0642
	-5.00000	-7.00000	13.00000	-0.84362	12.566	-0.12553	-4.5260
	-4.00000	-7.00000	13.00000	-0.96347	12.566	-0.15624	-5.0395
	-3.00000	-7.00000	13.00000	-1.0929	12.566	-0.19340	-5.6031
	-2.00000	-7.00000	13.00000	-1.2304	12.566	-0.23689	-6.2100
	-1.00000	-7.00000	13.00000	-1.3736	12.566	-0.28555	-6.8478
	0.00000	-7.00000	13.00000	-1.5195	12.566	-0.33707	-7.4985
	1.00000	-7.00000	13.00000	-1.6646	12.566	-0.38838	-8.1405
	2.00000	-7.00000	13.00000	-1.8055	12.566	-0.43640	-8.7522
	3.00000	-7.00000	13.00000	-1.9391	12.566	-0.47881	-9.3151
	4.00000	-7.00000	13.00000	-2.0631	12.566	-0.51439	-9.8160
	5.00000	-7.00000	13.00000	-2.1758	12.566	-0.54292	-10.247
	6.00000	-7.00000	13.00000	-2.2763	12.566	-0.56485	-10.606
	7.00000	-7.00000	13.00000	-2.3644	12.566	-0.58089	-10.892
	8.00000	-7.00000	13.00000	-2.4401	12.566	-0.59177	-11.106
	9.00000	-7.00000	13.00000	-2.5038	12.566	-0.59807	-11.251
	10.00000	-7.00000	13.00000	-2.5560	12.566	-0.60017	-11.327
	11.00000	-7.00000	13.00000	-2.5972	12.566	-0.59818	-11.338
	12.00000	-7.00000	13.00000	-2.6281	12.566	-0.59198	-11.282
	13.00000	-7.00000	13.00000	-2.6491	12.566	-0.58122	-11.160
	14.00000	-7.00000	13.00000	-2.6608	12.566	-0.56532	-10.971
	15.00000	-7.00000	13.00000	-2.6636	12.566	-0.54357	-10.715
	16.00000	-7.00000	13.00000	-2.6579	12.566	-0.51524	-10.393
	17.00000	-7.00000	13.00000	-2.6441	12.566	-0.47992	-10.008
	18.00000	-7.00000	13.00000	-2.6225	12.566	-0.43780	-9.5662
	19.00000	-7.00000	13.00000	-2.5936	12.566	-0.39010	-9.0792
	20.00000	-7.00000	13.00000	-2.5575	12.566	-0.33914	-8.5611
	21.00000	-7.00000	13.00000	-2.5145	12.566	-0.28796	-8.0291
	22.00000	-7.00000	13.00000	-2.4648	12.566	-0.23962	-7.4497
	23.00000	-7.00000	13.00000	-2.4083	12.566	-0.19638	-6.9869
	24.00000	-7.00000	13.00000	-2.3449	12.566	-0.15942	-6.5002
	25.00000	-7.00000	13.00000	-2.2742	12.566	-0.12887	-6.0442
	26.00000	-7.00000	13.00000	-2.1960	12.566	-0.10417	-5.6200
	27.00000	-7.00000	13.00000	-2.1098	12.566	-0.084470	-5.2254
	28.00000	-7.00000	13.00000	-2.0151	12.566	-0.068847	-4.8570
	29.00000	-7.00000	13.00000	-1.9119	12.566	-0.056459	-4.5104
	30.00000	-7.00000	13.00000	-1.8001	12.566	-0.046594	-4.1815
	31.00000	-7.00000	13.00000	-1.6804	12.566	-0.038681	-3.8670
	32.00000	-7.00000	13.00000	-1.5541	12.566	-0.032274	-3.5648
	33.00000	-7.00000	13.00000	-1.4231	12.566	-0.027037	-3.2741
	34.00000	-7.00000	13.00000	-1.2899	12.566	-0.022722	-2.9963
	35.00000	-7.00000	13.00000	-1.1574	12.566	-0.019149	-2.7333
	36.00000	-7.00000	13.00000	-1.0285	12.566	-0.016185	-2.4878
	37.00000	-7.00000	13.00000	-0.90572	12.566	-0.013726	-2.2616
	38.00000	-7.00000	13.00000	-0.79099	12.566	-0.011687	-2.0558
	39.00000	-7.00000	13.00000	-0.68550	12.566	-0.0099933	-1.8700
	40.00000	-7.00000	13.00000	-0.58980	12.566	-0.0085841	-1.7034
	41.00000	-7.00000	13.00000	-0.50391	12.566	-0.0074073	-1.5545
	42.00000	-7.00000	13.00000	-0.42751	12.566	-0.0064202	-1.4216
	43.00000	-7.00000	13.00000	-0.36002	12.566	-0.0055883	-1.3028
	44.00000	-7.00000	13.00000	-0.30074	12.566	-0.0048838	-1.1966
	45.00000	-7.00000	13.00000	-0.24892	12.566	-0.0042843	-1.1015
	46.00000	-7.00000	13.00000	-0.20380	12.566	-0.0037718	-1.0161
	47.00000	-7.00000	13.00000	-0.16465	12.566	-0.0033316	-0.93927
	48.00000	-7.00000	13.00000	-0.13079	12.566	-0.0029521	-0.86994
	49.00000	-7.00000	13.00000	-0.10158	12.566	-0.0026236	-0.80725
	50.00000	-7.00000	13.00000	-0.076464	12.566	-0.0023381	-0.75042
	51.00000	-7.00000	13.00000	-0.054920	12.566	-0.0020892	-0.69878
	52.00000	-7.00000	13.00000	-0.036495	12.566	-0.0018715	-0.65176
	53.00000	-7.00000	13.00000	-0.020787	12.566	-0.0016805	-0.60884
	54.00000	-7.00000	13.00000	-0.0074386	12.566	-0.0015124	-0.56960
	55.00000	-7.00000	13.00000	0.0038615	12.566	-0.0013641	-0.53364
	-25.00000	-6.00000	13.00000	0.0038615	12.566	-0.0043495	-0.79342
	-24.00000	-6.00000	13.00000	0.0029506	12.566	-0.0049550	-0.85296
	-23.00000	-6.00000	13.00000	-0.0071695	12.566	-0.0056647	-0.91848
	-22.00000	-6.00000	13.00000	-0.019087	12.566	-0.0060505	-0.99074
	-21.00000	-6.00000	13.00000	-0.033077	12.566	-0.0074896	-1.0706
	-20.00000	-6.00000	13.00000	-0.049454	12.566	-0.0086661	-1.1591
	-19.00000	-6.00000	13.00000	-0.068581	12.566	-0.0100703	-1.2574
	-18.00000	-6.00000	13.00000	-0.090870	12.566	-0.011766	-1.3670
	-17.00000	-6.00000	13.00000	-0.11679	12.566	-0.013816	-1.4893
	-16.00000	-6.00000	13.00000	-0.14689	12.566	-0.016315	-1.6264
	-15.00000	-6.00000	13.00000	-0.18177	12.566	-0.019383	-1.7805
	-14.00000	-6.00000	13.00000	-0.22213	12.566	-0.023177	-1.9542
	-13.00000	-6.00000	13.00000	-0.26874	12.566	-0.027910	-2.1507
	-12.00000	-6.00000	13.00000	-0.32248	12.566	-0.033860	-2.3738
	-11.00000	-6.00000	13.00000	-0.38430	12.566	-0.041408	-2.6278
	-10.00000	-6.00000	13.00000	-0.45526	12.566	-0.051065	-2.9180
	-9.00000	-6.00000	13.00000	-0.53645	12.566	-0.063523	-3.2506
	-8.00000	-6.00000	13.00000	-0.62903	12.566	-0.079715	-3.6324
	-7.00000	-6.00000	13.00000	-0.73411	12.566	-0.10088	-4.0714
	-6.00000	-6.00000	13.00000	-0.85265	12.566	-0.12861	-4.5758
	-5.00000	-6.00000	13.00000	-0.98534	12.566	-0.16485	-5.1533
	-4.00000	-6.00000	13.00000	-1.1323	12.566	-0.21170	-5.8098
	-3.00000	-6.00000	13.00000	-1.2929	12.566	-0.27095	-6.5463
	-2.00000	-6.00000	13.00000	-1.4653	12.566	-0.34317	-7.3561
	-1.00000	-6.00000	13.00000	-1.6464	12.566	-0.42662	-8.2216
	0.00000	-6.00000	13.00000	-1.8319	12.566	-0.51665	-9.1139
	1.00000	-6.00000	13.00000	-2.0165	12.566	-0.60645	-9.9967
	2.00000	-6.00000	13.00000	-2.1951	12.566	-0.68917	-10.833
	3.00000	-6.00000	13.00000	-2.3632	12.566	-0.76013	-11.594
	4.00000	-6.00000	13.00000	-2.5178	12.566	-0.81753	-12.261
	5.00000	-6.00000	13.00000	-2.6568	12.566	-0.86183	-12.826
	6.00000	-6.00000	13.00000	-2.7796	12.566	-0.89469	-13.287
	7.00000	-6.00000	13.00000	-2.8860	12.566	-0.91802	-13.650
	8.00000	-6.00000	13.00000	-2.9767	12.566	-0.93347	-13.918
	9.00000	-6.00000	13.00000	-3.0523	12.566	-0.94228	-14.097
	10.00000	-6.00000	13.00000	-3.1138	12.566	-0.94518	-14.191
	11.00000	-6.00000	13.00000	-3.1621	12.566	-0.94241	-14.200
	12.00000	-6.00000	13.00000	-3.1979	12.566	-0.93374	-14.126
	13.00000	-6.00000	13.00000	-3.2220	12.566	-0.91845	-13.968
	14.00000	-6.00000	13.00000	-3.2350	12.566	-0.89533	-13.724
	15.00000	-6.00000	13.00000	-3.2376	12.566	-0.86272	-13.390
	16.00000	-6.00000	13.00000	-3.2302	12.566	-0.81874	-12.965
	17.00000	-6.00000	13.00000	-3.2133	12.566	-0.76176	-12.451
	18.00000						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
41.00000	-6.00000	13.00000	-0.58718	12.566	-0.0080741	-1.6726	7.3856E-6
42.00000	-6.00000	13.00000	-0.49646	12.566	-0.0069555	-1.5206	6.7247E-6
43.00000	-6.00000	13.00000	-0.41707	12.566	-0.0060224	-1.3864	6.1400E-6
44.00000	-6.00000	13.00000	-0.34794	12.566	-0.0052390	-1.2677	5.6215E-6
45.00000	-6.00000	13.00000	-0.28796	12.566	-0.0045772	-1.1623	5.1603E-6
46.00000	-6.00000	13.00000	-0.23610	12.566	-0.0040151	-1.0684	4.7487E-6
47.00000	-6.00000	13.00000	-0.19137	12.566	-0.0035350	-0.98451	4.3804E-6
48.00000	-6.00000	13.00000	-0.15289	12.566	-0.0031232	-0.90929	4.0495E-6
49.00000	-6.00000	13.00000	-0.11985	12.566	-0.0027681	-0.84162	3.7515E-6
50.00000	-6.00000	13.00000	-0.091559	12.566	-0.0024609	-0.78058	3.4823E-6
51.00000	-6.00000	13.00000	-0.067981	12.566	-0.0021939	-0.72535	3.2385E-6
52.00000	-6.00000	13.00000	-0.046770	12.566	-0.0019612	-0.67525	3.0170E-6
53.00000	-6.00000	13.00000	-0.029244	12.566	-0.0017576	-0.62968	2.8154E-6
54.00000	-6.00000	13.00000	-0.014385	12.566	-0.0015789	-0.58814	2.6313E-6
55.00000	-6.00000	13.00000	-0.0018282	12.566	-0.0014216	-0.55019	2.4631E-6
-20.00000	-5.00000	13.00000	0.0077631	12.566	-0.0046149	-0.82117	3.6081E-6
-24.00000	-5.00000	13.00000	-0.0016048	12.566	-0.0052729	-0.88426	3.8771E-6
-23.00000	-5.00000	13.00000	-0.012687	12.566	-0.0060476	-0.95388	4.1725E-6
-22.00000	-5.00000	13.00000	-0.025754	12.566	-0.0069642	-1.0309	4.4977E-6
-21.00000	-5.00000	13.00000	-0.041118	12.566	-0.0080545	-1.1163	4.8564E-6
-20.00000	-5.00000	13.00000	-0.059139	12.566	-0.0093587	-1.2113	5.2528E-6
-19.00000	-5.00000	13.00000	-0.080233	12.566	-0.010928	-1.3173	5.6919E-6
-18.00000	-5.00000	13.00000	-0.10488	12.566	-0.012830	-1.4359	6.1791E-6
-17.00000	-5.00000	13.00000	-0.13363	12.566	-0.015151	-1.5689	6.7210E-6
-16.00000	-5.00000	13.00000	-0.16713	12.566	-0.018004	-1.7189	7.3248E-6
-15.00000	-5.00000	13.00000	-0.20610	12.566	-0.021542	-1.8888	7.9991E-6
-14.00000	-5.00000	13.00000	-0.25139	12.566	-0.025969	-2.0808	8.7532E-6
-13.00000	-5.00000	13.00000	-0.30396	12.566	-0.031560	-2.3001	9.5980E-6
-12.00000	-5.00000	13.00000	-0.36490	12.566	-0.038697	-2.5512	10.545E-6
-11.00000	-5.00000	13.00000	-0.43545	12.566	-0.047909	-2.8400	11.607E-6
-10.00000	-5.00000	13.00000	-0.51700	12.566	-0.059930	-3.1730	12.7959E-6
-9.00000	-5.00000	13.00000	-0.61108	12.566	-0.075834	-3.5612	14.125E-6
-8.00000	-5.00000	13.00000	-0.71934	12.566	-0.097092	-4.0131	15.599E-6
-7.00000	-5.00000	13.00000	-0.84350	12.566	-0.12583	-4.5419	17.220E-6
-6.00000	-5.00000	13.00000	-0.98524	12.566	-0.16502	-5.1622	18.971E-6
-5.00000	-5.00000	13.00000	-1.14660	12.566	-0.21867	-5.8989	20.815E-6
-4.00000	-5.00000	13.00000	-1.3266	12.566	-0.29177	-6.7387	22.682E-6
-3.00000	-5.00000	13.00000	-1.5268	12.566	-0.38959	-7.7186	24.469E-6
-2.00000	-5.00000	13.00000	-1.7449	12.566	-0.51562	-8.8262	26.067E-6
-1.00000	-5.00000	13.00000	-1.9767	12.566	-0.66811	-10.038	27.416E-6
0.00000	-5.00000	13.00000	-2.2156	12.566	-0.83710	-11.308	28.568E-6
1.00000	-5.00000	13.00000	-2.4536	12.566	-1.0058	-12.562	29.679E-6
2.00000	-5.00000	13.00000	-2.6826	12.566	-1.1575	-13.741	30.905E-6
3.00000	-5.00000	13.00000	-2.8960	12.566	-1.2820	-14.795	32.297E-6
4.00000	-5.00000	13.00000	-3.0896	12.566	-1.3777	-15.697	33.791E-6
5.00000	-5.00000	13.00000	-3.2614	12.566	-1.4479	-16.446	35.274E-6
6.00000	-5.00000	13.00000	-3.4112	12.566	-1.4975	-17.043	36.639E-6
7.00000	-5.00000	13.00000	-3.5396	12.566	-1.5315	-17.504	37.810E-6
8.00000	-5.00000	13.00000	-3.6477	12.566	-1.5534	-17.840	38.741E-6
9.00000	-5.00000	13.00000	-3.7371	12.566	-1.5656	-18.061	39.412E-6
10.00000	-5.00000	13.00000	-3.8092	12.566	-1.5696	-18.172	39.816E-6
11.00000	-5.00000	13.00000	-3.8653	12.566	-1.5658	-18.181	39.956E-6
12.00000	-5.00000	13.00000	-3.9066	12.566	-1.5537	-18.085	39.846E-6
13.00000	-5.00000	13.00000	-3.9340	12.566	-1.5321	-17.881	39.509E-6
14.00000	-5.00000	13.00000	-3.9485	12.566	-1.4984	-17.564	38.987E-6
15.00000	-5.00000	13.00000	-3.9506	12.566	-1.4501	-17.127	38.344E-6
16.00000	-5.00000	13.00000	-3.9409	12.566	-1.3795	-16.562	37.674E-6
17.00000	-5.00000	13.00000	-3.9201	12.566	-1.2845	-15.865	37.098E-6
18.00000	-5.00000	13.00000	-3.8885	12.566	-1.1609	-15.043	36.732E-6
19.00000	-5.00000	13.00000	-3.8467	12.566	-1.0104	-14.116	36.619E-6
20.00000	-5.00000	13.00000	-3.7952	12.566	-0.84300	-13.122	36.660E-6
21.00000	-5.00000	13.00000	-3.7345	12.566	-0.67539	-12.107	36.627E-6
22.00000	-5.00000	13.00000	-3.6650	12.566	-0.52406	-11.125	36.292E-6
23.00000	-5.00000	13.00000	-3.5866	12.566	-0.39893	-10.212	35.551E-6
24.00000	-5.00000	13.00000	-3.4989	12.566	-0.30176	-9.3841	34.439E-6
25.00000	-5.00000	13.00000	-3.4010	12.566	-0.22907	-8.5445	33.059E-6
26.00000	-5.00000	13.00000	-3.2918	12.566	-0.17566	-7.9849	31.517E-6
27.00000	-5.00000	13.00000	-3.1700	12.566	-0.13654	-7.3920	29.888E-6
28.00000	-5.00000	13.00000	-3.0340	12.566	-0.10773	-6.8506	28.212E-6
29.00000	-5.00000	13.00000	-2.8824	12.566	-0.086245	-6.3461	26.504E-6
30.00000	-5.00000	13.00000	-2.7144	12.566	-0.069939	-5.8645	24.759E-6
31.00000	-5.00000	13.00000	-2.5297	12.566	-0.057272	-5.3944	22.967E-6
32.00000	-5.00000	13.00000	-2.3300	12.566	-0.047163	-4.9284	21.124E-6
33.00000	-5.00000	13.00000	-2.1185	12.566	-0.038873	-4.4649	19.242E-6
34.00000	-5.00000	13.00000	-1.9010	12.566	-0.031960	-4.0103	17.364E-6
35.00000	-5.00000	13.00000	-1.6844	12.566	-0.026205	-3.5768	15.549E-6
36.00000	-5.00000	13.00000	-1.4759	12.566	-0.021491	-3.1773	13.861E-6
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38.00000	-5.00000	13.00000	-1.1032	12.566	-0.014680	-2.5074	11.001E-6
39.00000	-5.00000	13.00000	-0.94385	12.566	-0.012276	-2.2367	9.8358E-6
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41.00000	-5.00000	13.00000	-0.67959	12.566	-0.0087962	-1.8016	7.9523E-6
42.00000	-5.00000	13.00000	-0.57221	12.566	-0.0075263	-1.6270	7.1931E-6
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44.00000	-5.00000	13.00000	-0.39888	12.566	-0.0056098	-1.3423	5.9507E-6
45.00000	-5.00000	13.00000	-0.32992	12.566	-0.0048930	-1.2256	5.4399E-6
46.00000	-5.00000	13.00000	-0.27062	12.566	-0.0042658	-1.1225	4.9877E-6
47.00000	-5.00000	13.00000	-0.21979	12.566	-0.0037436	-1.0310	4.5861E-6
48.00000	-5.00000	13.00000	-0.17629	12.566	-0.0032977	-0.94950	4.2276E-6
49.00000	-5.00000	13.00000	-0.13913	12.566	-0.0029151	-0.87659	3.9065E-6
50.00000	-5.00000	13.00000	-0.10744	12.566	-0.0025853	-0.81114	3.6179E-6
51.00000	-5.00000	13.00000	-0.080458	12.566	-0.0022997	-0.75216	3.3575E-6
52.00000	-5.00000	13.00000	-0.057527	12.566	-0.0020515	-0.69888	3.1220E-6
53.00000	-5.00000	13.00000	-0.038082	12.566	-0.0018350	-0.65058	2.9083E-6
54.00000	-5.00000	13.00000	-0.021634	12.566	-0.0016455	-0.60669	2.7139E-6
55.00000	-5.00000	13.00000	-0.0077597	12.566	-0.0014791	-0.56671	2.5366E-6
-25.00000	-4.00000	13.00000	0.0039195	12.566	-0.0048845	-0.84880	3.7264E-6
-24.00000	-4.00000	13.00000	-0.0062763	12.566	-0.0055970	-0.91549	4.0102E-6
-23.00000	-4.00000	13.00000	-0.018349	12.566	-0.0064392	-0.98929	4.3228E-6
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-18.00000	-4.00000	13.00000	-0.11936	12.566	-0.013943	-1.5058	6.4668E-6
-17.00000	-4.00000	13.00000	-0.15108	12.566	-0.016555	-1.6501	7.0517E-6
-16.00000	-4.00000	13.00000	-0.18816	12.566	-0.019794	-1.8135	7.7063E-6
-15.00000	-4.00000	13.00000	-0.23146	12.566	-0.023848	-1.9993	8.4407E-6
-14.00000	-4.00000	13.00000	-0.28199	12.566	-0.028975	-2.2116	9.2663E-6
-13.00000	-4.00000	13.00000	-0.34093	12.566	-0.035534	-2.4555	10.196E-6
-12.00000	-4.00000	13.00000	-0.40963	12.566	-0.044029	-2.7371	11.245E-6
-11.00000	-4.00000	13.00000	-0.48967	12.566	-0.055181	-3.0642	12.428E-6
-10.00000	-4.00000	13.00000	-0.58285	12.566	-0.070047	-3.4466	13.761E-6
-9.00000	-4.00000	13.00000	-0.69123	12.566	-0.090176	-3.8966	15.258E-6
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-7.00000	-4.00000	13.00000	-0.96316	12.566	-0.15675	-5.0660	18.760E-6
-6.00000	-4.00000	13.00000	-1.1320	12.566	-0.21210	-5.8290	20.722E-6
-5.00000	-4.00000	13.00000	-1.3263	12.566			

Total Heave

Oasys

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.

Sheet No.

Rev.

J15249

Drg. Ref.

Made by

Date

Checked

MP

Name	Location	Displacement	Stresses				
X	Y	Z[Level]	Calc Level	Vert Stress	Sum Princ	Vert Strain	
[m]	[m]	[mOD]	[mOD]	[kN/m ²]	[kN/m ²]	[-]	
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10.00000	-4.00000	13.00000	-4.6864	12.566	-2.7824	-23.900	32.765E-6
11.00000	-4.00000	13.00000	-4.7512	12.566	-2.7772	-23.905	32.931E-6
12.00000	-4.00000	13.00000	-4.7984	12.566	-2.7607	-23.781	32.815E-6
13.00000	-4.00000	13.00000	-4.8294	12.566	-2.7304	-23.520	32.456E-6
14.00000	-4.00000	13.00000	-4.8451	12.566	-2.6816	-23.111	31.928E-6
15.00000	-4.00000	13.00000	-4.8464	12.566	-2.6069	-22.538	31.363E-6
16.00000	-4.00000	13.00000	-4.8339	12.566	-2.4952	-21.783	30.975E-6
17.00000	-4.00000	13.00000	-4.8082	12.566	-2.3320	-20.828	31.083E-6
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19.00000	-4.00000	13.00000	-4.7192	12.566	-1.8074	-18.335	34.064E-6
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21.00000	-4.00000	13.00000	-4.5852	12.566	-1.1218	-15.418	39.504E-6
22.00000	-4.00000	13.00000	-4.5030	12.566	-0.82449	-14.023	41.270E-6
23.00000	-4.00000	13.00000	-4.4109	12.566	-0.59443	-12.762	41.814E-6
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27.00000	-4.00000	13.00000	-3.9219	12.566	-0.17873	-9.1497	36.730E-6
28.00000	-4.00000	13.00000	-3.7597	12.566	-0.13976	-8.4935	34.809E-6
29.00000	-4.00000	13.00000	-3.5765	12.566	-0.11165	-7.8831	32.800E-6
30.00000	-4.00000	13.00000	-3.3700	12.566	-0.090799	-7.2941	30.691E-6
31.00000	-4.00000	13.00000	-3.1388	12.566	-0.074723	-6.7051	28.451E-6
32.00000	-4.00000	13.00000	-2.8838	12.566	-0.061691	-6.0992	26.051E-6
33.00000	-4.00000	13.00000	-2.6092	12.566	-0.050552	-5.4716	23.501E-6
34.00000	-4.00000	13.00000	-2.3236	12.566	-0.040782	-4.8365	20.800E-6
35.00000	-4.00000	13.00000	-2.0391	12.566	-0.032435	-4.2262	18.333E-6
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26.00000	-3.00000	13.00000	-5.0682	12.566	-0.32527	-12.795	49.310E-6
27.00000	-3.00000	13.00000	-4.8995	12.566	-0.24801	-11.905	47.370E-6
28.00000	-3.00000	13.00000	-4.7071	12.566	-0.19599	-11.113	45.189E-6
29.00000	-3.00000	13.00000	-4.4866	12.566	-0.15954	-10.375	42.826E-6
30.00000	-3.00000	13.00000	-4.2332	12.566	-0.13306	-9.6505	40.253E-6
31.00000	-3.00000	13.00000	-3.9426	12.566	-0.11249	-8.8959	37.382E-6
32.00000	-3.00000	13.00000	-3.6132	12.566	-0.094800	-8.0690	34.105E-6
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37.00000	-3.00000	13.00000	-1.7943	12.566	-0.024509	-3.6695	16.017E-6
38.00000	-3.00000	13.00000	-1.5129	12.566	-0.019089	-3.1355	13.737E-6
39.00000	-3.00000	13.00000	-1.2713	12.566	-0.015295	-2.7119	11.915E-6
40.00000	-3.00000	13.00000	-1.0654	12.566	-0.012521	-2.3712	10.441E-6
41.00000	-3.00000	13.00000	-0.89071	12.566	-0.010416	-2.0925	9.2311E-6
42.00000	-3.00000	13.00000	-0.74267	12.566	-0.0087709	-1.8612	8.2241E-6
43.00000	-3.00000	13.00000	-0.61732	12.566	-0.0074574	-1.6665	7.3747E-6
44.00000	-3.00000	13.00000	-0.51120	12.566	-0.0063908	-1.5008	6.6501E-6
45.00000	-3.00000	13.00000	-0.42135	12.566	-0.0055131	-1.3583	6.0260E-6
46.00000	-3.00000	13.00000	-0.34527	12.566	-0.0047832</		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
-23.00000	-2.00000	13.00000	-0.029920	12.566	-0.0072360	-1.0593	4.6193E-6
-22.00000	-2.00000	13.00000	-0.046615	12.566	-0.0084132	-1.1510	5.0045E-6
-21.00000	-2.00000	13.00000	-0.066336	12.566	-0.0098328	-1.2538	5.4329E-6
-20.00000	-2.00000	13.00000	-0.089597	12.566	-0.011557	-1.3692	5.9108E-6
-19.00000	-2.00000	13.00000	-0.117000	12.566	-0.013667	-1.4994	6.4452E-6
-18.00000	-2.00000	13.00000	-0.14926	12.566	-0.016272	-1.6468	7.0445E-6
-17.00000	-2.00000	13.00000	-0.18721	12.566	-0.019517	-1.8146	7.7188E-6
-16.00000	-2.00000	13.00000	-0.23184	12.566	-0.023601	-2.0064	8.4795E-6
-15.00000	-2.00000	13.00000	-0.28433	12.566	-0.028802	-2.2269	9.3405E-6
-14.00000	-2.00000	13.00000	-0.34608	12.566	-0.035510	-2.4820	10.318E-6
-13.00000	-2.00000	13.00000	-0.41876	12.566	-0.044288	-2.7792	11.429E-6
-12.00000	-2.00000	13.00000	-0.50435	12.566	-0.055963	-3.1279	12.696E-6
-11.00000	-2.00000	13.00000	-0.60524	12.566	-0.071782	-3.5406	14.141E-6
-10.00000	-2.00000	13.00000	-0.72431	12.566	-0.093674	-4.0339	15.787E-6
-9.00000	-2.00000	13.00000	-0.86505	12.566	-0.12471	-4.6299	17.651E-6
-8.00000	-2.00000	13.00000	-1.0317	12.566	-0.16996	-5.3592	19.733E-6
-7.00000	-2.00000	13.00000	-1.2293	12.566	-0.23804	-6.2642	21.990E-6
-6.00000	-2.00000	13.00000	-1.4641	12.566	-0.34424	-7.4050	24.280E-6
-5.00000	-2.00000	13.00000	-1.7438	12.566	-0.51657	-8.8676	26.229E-6
-4.00000	-2.00000	13.00000	-2.0770	12.566	-0.80760	-10.774	26.959E-6
-3.00000	-2.00000	13.00000	-2.4736	12.566	-1.3150	-13.289	24.552E-6
-2.00000	-2.00000	13.00000	-2.9417	12.566	-2.2017	-16.598	15.407E-6
-1.00000	-2.00000	13.00000	-3.4807	12.566	-3.6485	-20.796	-4.9796E-6
0.00000	-2.00000	13.00000	-4.0680	12.566	-5.6025	-25.646	-36.236E-6
1.00000	-2.00000	13.00000	-4.6542	12.566	-7.5561	-30.483	-67.545E-6
2.00000	-2.00000	13.00000	-5.1897	12.566	-9.0018	-34.639	-88.089E-6
3.00000	-2.00000	13.00000	-5.6517	12.566	-9.8864	-37.876	-97.502E-6
4.00000	-2.00000	13.00000	-6.0396	12.566	-10.391	-40.289	-100.29E-6
5.00000	-2.00000	13.00000	-6.3615	12.566	-10.677	-42.058	-100.06E-6
6.00000	-2.00000	13.00000	-6.6268	12.566	-10.943	-43.346	-98.739E-6
7.00000	-2.00000	13.00000	-6.8441	12.566	-10.941	-44.268	-97.216E-6
8.00000	-2.00000	13.00000	-7.0206	12.566	-10.998	-44.903	-95.877E-6
9.00000	-2.00000	13.00000	-7.1620	12.566	-11.028	-45.302	-94.874E-6
10.00000	-2.00000	13.00000	-7.2730	12.566	-11.037	-45.494	-94.257E-6
11.00000	-2.00000	13.00000	-7.3573	12.566	-11.028	-45.491	-94.024E-6
12.00000	-2.00000	13.00000	-7.4177	12.566	-10.999	-45.292	-94.128E-6
13.00000	-2.00000	13.00000	-7.4561	12.566	-10.942	-44.880	-94.466E-6
14.00000	-2.00000	13.00000	-7.4741	12.566	-10.845	-44.222	-94.809E-6
15.00000	-2.00000	13.00000	-7.4727	12.566	-10.680	-43.264	-94.670E-6
16.00000	-2.00000	13.00000	-7.4523	12.566	-10.396	-41.926	-93.002E-6
17.00000	-2.00000	13.00000	-7.4134	12.566	-9.8972	-40.111	-87.634E-6
18.00000	-2.00000	13.00000	-7.3572	12.566	-9.0236	-37.739	-74.588E-6
19.00000	-2.00000	13.00000	-7.2863	12.566	-7.6030	-34.849	-48.972E-6
20.00000	-2.00000	13.00000	-7.2040	12.566	-5.6945	-31.675	-11.334E-6
21.00000	-2.00000	13.00000	-7.1084	12.566	-3.7856	-28.476	26.202E-6
22.00000	-2.00000	13.00000	-6.9970	12.566	-2.3638	-25.510	51.510E-6
23.00000	-2.00000	13.00000	-6.8719	12.566	-1.4880	-23.010	64.033E-6
24.00000	-2.00000	13.00000	-6.7336	12.566	-0.98551	-21.009	68.644E-6
25.00000	-2.00000	13.00000	-6.5803	12.566	-0.69672	-19.419	69.293E-6
26.00000	-2.00000	13.00000	-6.4080	12.566	-0.52541	-18.131	68.113E-6
27.00000	-2.00000	13.00000	-6.2119	12.566	-0.41950	-17.052	66.094E-6
28.00000	-2.00000	13.00000	-5.9858	12.566	-0.35113	-16.103	63.644E-6
29.00000	-2.00000	13.00000	-5.7224	12.566	-0.30488	-15.216	60.873E-6
30.00000	-2.00000	13.00000	-5.4129	12.566	-0.27160	-14.321	57.713E-6
31.00000	-2.00000	13.00000	-5.0477	12.566	-0.24487	-13.333	53.948E-6
32.00000	-2.00000	13.00000	-4.6174	12.566	-0.21808	-12.131	49.215E-6
33.00000	-2.00000	13.00000	-4.1194	12.566	-0.18141	-10.571	43.121E-6
34.00000	-2.00000	13.00000	-3.5724	12.566	-0.12756	-8.6454	35.832E-6
35.00000	-2.00000	13.00000	-3.0268	12.566	-0.075771	-6.7526	28.638E-6
36.00000	-2.00000	13.00000	-2.5332	12.566	-0.045535	-5.2938	22.830E-6
37.00000	-2.00000	13.00000	-2.1102	12.566	-0.030409	-4.2668	18.572E-6
38.00000	-2.00000	13.00000	-1.7553	12.566	-0.022207	-3.5355	15.471E-6
39.00000	-2.00000	13.00000	-1.4594	12.566	-0.017178	-2.9950	13.150E-6
40.00000	-2.00000	13.00000	-1.2130	12.566	-0.013775	-2.5805	11.358E-6
41.00000	-2.00000	13.00000	-1.0074	12.566	-0.011309	-2.2527	9.9352E-6
42.00000	-2.00000	13.00000	-0.83565	12.566	-0.0094369	-1.9871	8.7784E-6
43.00000	-2.00000	13.00000	-0.69184	12.566	-0.0079702	-1.7676	7.8203E-6
44.00000	-2.00000	13.00000	-0.57122	12.566	-0.0067946	-1.5833	7.0144E-6
45.00000	-2.00000	13.00000	-0.46989	12.566	-0.0058367	-1.4266	6.3278E-6
46.00000	-2.00000	13.00000	-0.38466	12.566	-0.0050459	-1.2919	5.7367E-6
47.00000	-2.00000	13.00000	-0.31289	12.566	-0.0043863	-1.1750	5.2232E-6
48.00000	-2.00000	13.00000	-0.25243	12.566	-0.0038315	-1.0728	4.7738E-6
49.00000	-2.00000	13.00000	-0.20147	12.566	-0.0033615	-0.98291	4.3778E-6
50.00000	-2.00000	13.00000	-0.15851	12.566	-0.0029608	-0.90333	4.0269E-6
51.00000	-2.00000	13.00000	-0.12231	12.566	-0.0026173	-0.83254	3.7144E-6
52.00000	-2.00000	13.00000	-0.091825	12.566	-0.0023214	-0.76928	3.4347E-6
53.00000	-2.00000	13.00000	-0.066171	12.566	-0.0020653	-0.71251	3.1836E-6
54.00000	-2.00000	13.00000	-0.044611	12.566	-0.0018429	-0.66138	2.9572E-6
55.00000	-2.00000	13.00000	-0.026524	12.566	-0.0016489	-0.61517	2.7523E-6
-25.00000	-1.00000	13.00000	-0.0078521	12.566	-0.0056985	-0.92935	4.0705E-6
-24.00000	-1.00000	13.00000	-0.020593	12.566	-0.0065804	-1.0069	4.3991E-6
-23.00000	-1.00000	13.00000	-0.035724	12.566	-0.0076343	-1.0934	4.7634E-6
-22.00000	-1.00000	13.00000	-0.053651	12.566	-0.0089016	-1.1901	5.1687E-6
-21.00000	-1.00000	13.00000	-0.074859	12.566	-0.010436	-1.2986	5.6205E-6
-20.00000	-1.00000	13.00000	-0.099914	12.566	-0.012307	-1.4210	6.1258E-6
-19.00000	-1.00000	13.00000	-0.12949	12.566	-0.014608	-1.5594	6.6925E-6
-18.00000	-1.00000	13.00000	-0.16437	12.566	-0.017463	-1.7168	7.3301E-6
-17.00000	-1.00000	13.00000	-0.20552	12.566	-0.021041	-1.8965	8.0497E-6
-16.00000	-1.00000	13.00000	-0.25405	12.566	-0.025573	-2.1029	8.8647E-6
-15.00000	-1.00000	13.00000	-0.31129	12.566	-0.031387	-2.3414	9.7906E-6
-14.00000	-1.00000	13.00000	-0.37888	12.566	-0.038948	-2.6188	10.846E-6
-13.00000	-1.00000	13.00000	-0.45873	12.566	-0.048938	-2.9440	12.052E-6
-12.00000	-1.00000	13.00000	-0.55321	12.566	-0.062374	-3.3283	13.433E-6
-11.00000	-1.00000	13.00000	-0.66517	12.566	-0.080823	-3.7870	15.015E-6
-10.00000	-1.00000	13.00000	-0.79810	12.566	-0.10676	-4.3407	16.825E-6
-9.00000	-1.00000	13.00000	-0.95636	12.566	-0.14426	-5.0177	18.881E-6
-8.0							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
26.00000	-1.00000	13.00000	-8.3112	12.566	-1.6917	-32.153	100.05E-6
27.00000	-1.00000	13.00000	-8.0857	12.566	-1.5511	-30.862	98.018E-6
28.00000	-1.00000	13.00000	-7.8230	12.566	-1.4638	-29.740	95.296E-6
29.00000	-1.00000	13.00000	-7.5120	12.566	-1.4062	-28.684	92.068E-6
30.00000	-1.00000	13.00000	-7.1384	12.566	-1.3651	-27.586	88.195E-6
31.00000	-1.00000	13.00000	-6.6828	12.566	-1.3297	-26.278	83.212E-6
32.00000	-1.00000	13.00000	-6.1187	12.566	-1.2825	-24.432	76.107E-6
33.00000	-1.00000	13.00000	-5.4138	12.566	-1.1512	-21.251	65.226E-6
34.00000	-1.00000	13.00000	-4.5650	12.566	-0.67255	-15.464	51.971E-6
35.00000	-1.00000	13.00000	-3.7178	12.566	-0.19628	-9.7152	38.822E-6
36.00000	-1.00000	13.00000	-3.0177	12.566	-0.072561	-6.4998	28.258E-6
37.00000	-1.00000	13.00000	-2.4619	12.566	-0.039178	-5.0037	21.684E-6
38.00000	-1.00000	13.00000	-2.0180	12.566	-0.026086	-3.9917	17.440E-6
39.00000	-1.00000	13.00000	-1.6598	12.566	-0.019309	-3.3037	14.496E-6
40.00000	-1.00000	13.00000	-1.3681	12.566	-0.015123	-2.8025	12.331E-6
41.00000	-1.00000	13.00000	-1.1291	12.566	-0.012242	-2.4196	10.668E-6
42.00000	-1.00000	13.00000	-0.93190	12.566	-0.010121	-2.1166	9.3485E-6
43.00000	-1.00000	13.00000	-0.76857	12.566	-0.0084909	-1.8706	8.2742E-6
44.00000	-1.00000	13.00000	-0.63275	12.566	-0.0072017	-1.6668	7.3827E-6
45.00000	-1.00000	13.00000	-0.51947	12.566	-0.0061609	-1.4953	6.6312E-6
46.00000	-1.00000	13.00000	-0.42000	12.566	-0.0053070	-1.3497	5.9897E-6
47.00000	-1.00000	13.00000	-0.34544	12.566	-0.0046005	-1.2232	5.4365E-6
48.00000	-1.00000	13.00000	-0.27890	12.566	-0.0040082	-1.1137	4.9551E-6
49.00000	-1.00000	13.00000	-0.22304	12.566	-0.0035083	-1.0179	4.5331E-6
50.00000	-1.00000	13.00000	-0.17612	12.566	-0.0030837	-0.93352	4.1608E-6
51.00000	-1.00000	13.00000	-0.13669	12.566	-0.0027207	-0.85870	3.8305E-6
52.00000	-1.00000	13.00000	-0.10357	12.566	-0.0024089	-0.79207	3.5360E-6
53.00000	-1.00000	13.00000	-0.075764	12.566	-0.0021397	-0.73246	3.2723E-6
54.00000	-1.00000	13.00000	-0.052443	12.566	-0.0019064	-0.67892	3.0352E-6
55.00000	-1.00000	13.00000	-0.032910	12.566	-0.0017034	-0.63065	2.8212E-6
25.00000	0.00000	13.00000	-0.011736	12.566	-0.0005639	-0.35486	4.1792E-6
-24.00000	0.00000	13.00000	-0.025320	12.566	-0.0069025	-1.0359	4.5223E-6
-23.00000	0.00000	13.00000	-0.041465	12.566	-0.0080275	-1.1265	4.9036E-6
-22.00000	0.00000	13.00000	-0.060616	12.566	-0.0093847	-1.2281	5.3285E-6
-21.00000	0.00000	13.00000	-0.083301	12.566	-0.0110394	-1.3424	5.8034E-6
-20.00000	0.00000	13.00000	-0.11014	12.566	-0.013053	-1.4716	6.3380E-6
-19.00000	0.00000	13.00000	-0.14188	12.566	-0.015546	-1.6183	6.9345E-6
-18.00000	0.00000	13.00000	-0.17939	12.566	-0.018653	-1.7855	7.6101E-6
-17.00000	0.00000	13.00000	-0.22373	12.566	-0.022567	-1.9772	8.3750E-6
-16.00000	0.00000	13.00000	-0.27616	12.566	-0.027553	-2.1982	9.2440E-6
-15.00000	0.00000	13.00000	-0.33818	12.566	-0.033990	-2.4548	10.235E-6
-14.00000	0.00000	13.00000	-0.41164	12.566	-0.042422	-2.7546	11.368E-6
-13.00000	0.00000	13.00000	-0.49873	12.566	-0.053653	-3.1080	12.669E-6
-12.00000	0.00000	13.00000	-0.60220	12.566	-0.068904	-3.5284	14.165E-6
-11.00000	0.00000	13.00000	-0.72537	12.566	-0.090076	-4.0340	15.886E-6
-10.00000	0.00000	13.00000	-0.87241	12.566	-0.120241	-4.6495	17.862E-6
-9.00000	0.00000	13.00000	-1.0486	12.566	-0.16453	-5.4098	20.111E-6
-8.00000	0.00000	13.00000	-1.2605	12.566	-0.23198	-6.3655	22.616E-6
-7.00000	0.00000	13.00000	-1.5168	12.566	-0.33921	-7.5918	25.267E-6
-6.00000	0.00000	13.00000	-1.8290	12.566	-0.51883	-9.2049	27.701E-6
-5.00000	0.00000	13.00000	-2.2126	12.566	-0.83925	-11.392	28.901E-6
-4.00000	0.00000	13.00000	-2.6896	12.566	-1.4550	-14.461	26.061E-6
-3.00000	0.00000	13.00000	-3.2920	12.566	-2.7394	-18.944	11.401E-6
-2.00000	0.00000	13.00000	-4.0660	12.566	-5.6040	-25.697	-36.045E-6
-1.00000	0.00000	13.00000	-5.0652	12.566	-11.862	-35.761	-161.01E-6
1.00000	0.00000	13.00000	-6.2726	12.566	-22.4728	-48.967	-390.61E-6
2.00000	0.00000	13.00000	-7.4786	12.566	-33.094	-62.157	-620.27E-6
3.00000	0.00000	13.00000	-8.4738	12.566	-39.350	-72.172	-745.42E-6
4.00000	0.00000	13.00000	-9.2408	12.566	-42.212	-78.842	-793.18E-6
5.00000	0.00000	13.00000	-9.8331	12.566	-43.492	-83.203	-808.28E-6
6.00000	0.00000	13.00000	-10.297	12.566	-44.103	-86.113	-811.70E-6
7.00000	0.00000	13.00000	-10.664	12.566	-44.415	-88.090	-811.23E-6
8.00000	0.00000	13.00000	-10.956	12.566	-44.584	-89.441	-809.70E-6
9.00000	0.00000	13.00000	-11.187	12.566	-44.677	-90.341	-808.13E-6
10.00000	0.00000	13.00000	-11.369	12.566	-44.723	-90.892	-806.89E-6
11.00000	0.00000	13.00000	-11.510	12.566	-44.738	-91.148	-806.12E-6
12.00000	0.00000	13.00000	-11.616	12.566	-44.724	-91.134	-805.80E-6
13.00000	0.00000	13.00000	-11.690	12.566	-44.678	-90.845	-805.86E-6
14.00000	0.00000	13.00000	-11.736	12.566	-44.586	-90.247	-806.09E-6
15.00000	0.00000	13.00000	-11.756	12.566	-44.418	-89.270	-805.96E-6
16.00000	0.00000	13.00000	-11.751	12.566	-44.100	-87.793	-804.21E-6
17.00000	0.00000	13.00000	-11.720	12.566	-43.504	-85.619	-797.61E-6
18.00000	0.00000	13.00000	-11.665	12.566	-42.240	-82.466	-777.46E-6
19.00000	0.00000	13.00000	-11.594	12.566	-39.442	-78.176	-720.63E-6
20.00000	0.00000	13.00000	-11.566	12.566	-33.727	-74.854	-579.82E-6
21.00000	0.00000	13.00000	-12.156	12.566	-44.978	-101.55	-765.42E-6
22.00000	0.00000	13.00000	-12.729	12.566	-56.227	-128.19	-951.15E-6
23.00000	0.00000	13.00000	-12.651	12.566	-50.511	-124.78	-810.71E-6
24.00000	0.00000	13.00000	-12.495	12.566	-47.711	-120.34	-754.51E-6
25.00000	0.00000	13.00000	-12.316	12.566	-46.442	-116.95	-735.28E-6
26.00000	0.00000	13.00000	-12.119	12.566	-45.832	-114.47	-729.93E-6
27.00000	0.00000	13.00000	-11.896	12.566	-45.514	-112.58	-729.84E-6
28.00000	0.00000	13.00000	-11.640	12.566	-45.335	-111.07	-731.84E-6
29.00000	0.00000	13.00000	-11.339	12.566	-45.227	-109.76	-734.84E-6
30.00000	0.00000	13.00000	-10.978	12.566	-45.157	-108.53	-738.55E-6
31.00000	0.00000	13.00000	-10.536	12.566	-45.107	-107.26	-743.22E-6
32.00000	0.00000	13.00000	-9.9788	12.566	-45.061	-105.50	-749.67E-6
33.00000	0.00000	13.00000	-9.2534	12.566	-44.976	-102.71	-760.05E-6
34.00000	0.00000	13.00000	-8.2465	12.566	-44.419	-95.664	-776.91E-6
35.00000	0.00000	13.00000	-6.3990	12.566	-22.542	-55.475	-362.77E-6
36.00000	0.00000	13.00000	-4.5533	12.566	-6.66762	-15.329	51.488E-6
37.00000	0.00000	13.00000	-3.5518	12.566	-0.11965	-8.4103	34.979E-6
38.00000	0.00000	13.00000	-2.8356	12.566	-0.050579	-5.8434	25.192E-6
39.00000	0.00000	13.00000	-2.2919	12.566	-0.030519	-4.4830	19.553E-6
40.00000	0.00000	13.00000	-1.8664	12.566	-0.021595	-3.6265	15.901E-6
41.00000	0.00000	13.00000	-1.5270	12.566	-0.016523	-3.0307	13.331E-6
42.00000	0.00000	13.00000	-1.2529	12.566	-0.013192	-2.5891	11.413E-6
43.00000	0.00000	13.00000	-1.0295	12.566	-0.010810	-2.2470	9.9228E-6
44.00000	0.00000	13.00000	-0.84614	12.566	-0.0090115	-1.9736	8.7287E-6
45.00000	0.00000	13.00000	-0.69479	12.566	-0.0076065	-1.7499	7.7496E-6
46.00000	0.00000	13.00000	-0.56934	12.566	-0.0064822	-1.5634	6.9322E-6
47.00000	0.00000	13.00000	-0.46503	12.566	-0.0055666	-1.4056	6.2398E-6
48.00000	0.00000	13.00000	-0.37805	12.566	-0.0048113	-1.2706	5.6465E-6
49.00000	0.00000	13.00000	-0.30538	12.566	-0.0041816	-1.1539	5.1331E-6
50.00000	0.00000	13.00000	-0.24459	12.566	-0.0036522	-1.0523	4.6852E-6
51.00000	0.00000	13.00000	-0.19368	12.566	-0.0032038	-0.96301	4.2916E-6
52.00000	0.00000	13.00000	-0.15101	12.566	-0.0028217	-0.88421	3.9437E-6
53.00000	0.00000	13.00000	-0.11526	12.566	-0.0024941	-0.81425	3.6345E-6
54.00000	0.00000	13.00000	-0.085305	12.566	-0.0022121	-0.75183	3.3584E-6
55.00000	0.00000	13.00000	-0.060226	12.566	-0.0019681	-0.69592	3.1108E-6
-25.00000	1.00000	13.00000	-0.039252	12.566	-0.0017566	-0.64566	2.8879E-6
-24.00000	1.00000	13.00000	-0.015535	12.566	-0.0062223	-0.97935	4.2836E-6
-23.00000	1.00000	13.00000	-0.029944	12.566	-0.0072165	-1.0639	4.6408E-6
-22.00000	1.00000	13.00000	-0.047084	12.566	-0.0084115	-1.1585	5.0386E-6
-21.00000	1.00000	13.00000	-0.067437	12.566	-0.0098573	-1.2649	5.4827E-6
-20.00000	1.00000	13.00000	-0.091573	12.566	-0.011619	-1.3848	5.9801E-6
-19.00000	1.00000	13.00000	-0.12017	12.566	-0.013784	-1.5207	6.5391E-6
-18.00000	1.00000	13.00000	-0.15404				

Oasys

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.

Sheet No.

Rev.

J15249

Drg. Ref.

Made by

Date

Checked

MP

Name	Location	Displacement	Stresses				
X	Y	Z[Level]	Z	Calc Level	Vert Stress	Sum Princ	Vert Strain
[m]	[m]	[mOD]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[-]
-6.00000	1.00000	13.00000	-2.0123	12.566	-0.60941	-10.115	29.367E-6
-5.00000	1.00000	13.00000	-2.4493	12.566	-1.0088	-12.677	30.122E-6
-4.00000	1.00000	13.00000	-3.0007	12.566	-1.8018	-16.361	25.237E-6
-3.00000	1.00000	13.00000	-3.7112	12.566	-3.5245	-21.903	3.4349E-6
-2.00000	1.00000	13.00000	-4.6505	12.566	-7.5587	-30.569	-67.224E-6
-1.00000	1.00000	13.00000	-5.9083	12.566	-16.826	-44.017	-258.91E-6
0.00000	1.00000	13.00000	-7.4769	12.566	-33.095	-62.194	-620.14E-6
1.00000	1.00000	13.00000	-9.0441	12.566	-49.364	-80.354	-981.43E-6
2.00000	1.00000	13.00000	-10.297	12.566	-58.629	-93.750	-0.0011733
3.00000	1.00000	13.00000	-11.229	12.566	-62.661	-102.33	-0.0012443
4.00000	1.00000	13.00000	-11.929	12.566	-64.379	-107.74	-0.0012666
5.00000	1.00000	13.00000	-12.467	12.566	-65.166	-111.25	-0.0012721
6.00000	1.00000	13.00000	-12.886	12.566	-65.557	-113.59	-0.0012721
7.00000	1.00000	13.00000	-13.215	12.566	-65.763	-115.16	-0.0012706
8.00000	1.00000	13.00000	-13.475	12.566	-65.874	-116.19	-0.0012689
9.00000	1.00000	13.00000	-13.678	12.566	-65.929	-116.82	-0.0012676
10.00000	1.00000	13.00000	-13.834	12.566	-65.946	-117.11	-0.0012667
11.00000	1.00000	13.00000	-13.950	12.566	-65.930	-117.09	-0.0012663
12.00000	1.00000	13.00000	-14.031	12.566	-65.875	-116.76	-0.0012664
13.00000	1.00000	13.00000	-14.081	12.566	-65.765	-116.06	-0.0012665
14.00000	1.00000	13.00000	-14.102	12.566	-65.561	-114.92	-0.0012661
15.00000	1.00000	13.00000	-14.094	12.566	-65.173	-113.18	-0.0012635
16.00000	1.00000	13.00000	-14.058	12.566	-64.394	-110.56	-0.0012541
17.00000	1.00000	13.00000	-13.995	12.566	-62.699	-106.70	-0.0012255
18.00000	1.00000	13.00000	-13.919	12.566	-58.767	-101.41	-0.0011422
19.00000	1.00000	13.00000	-13.931	12.566	-50.466	-98.542	-928.80E-6
20.00000	1.00000	13.00000	-15.154	12.566	-77.461	-154.63	-0.0014102
21.00000	1.00000	13.00000	-16.358	12.566	-104.45	-210.69	-0.0018918
22.00000	1.00000	13.00000	-16.316	12.566	-96.153	-207.73	-0.0016788
23.00000	1.00000	13.00000	-16.145	12.566	-92.218	-202.27	-0.0015963
24.00000	1.00000	13.00000	-15.946	12.566	-90.511	-198.16	-0.0015680
25.00000	1.00000	13.00000	-15.727	12.566	-89.732	-195.20	-0.0015606
26.00000	1.00000	13.00000	-15.479	12.566	-89.336	-193.00	-0.0015598
27.00000	1.00000	13.00000	-15.193	12.566	-89.118	-191.26	-0.0015617
28.00000	1.00000	13.00000	-14.854	12.566	-88.990	-189.78	-0.0015650
29.00000	1.00000	13.00000	-14.442	12.566	-88.908	-188.36	-0.0015692
30.00000	1.00000	13.00000	-13.931	12.566	-88.850	-186.81	-0.0015747
31.00000	1.00000	13.00000	-13.273	12.566	-88.793	-184.73	-0.0015826
32.00000	1.00000	13.00000	-12.386	12.566	-88.670	-180.99	-0.0015962
33.00000	1.00000	13.00000	-11.077	12.566	-87.687	-170.07	-0.0016191
34.00000	1.00000	13.00000	-8.2314	12.566	-44.412	-95.482	-777.52E-6
35.00000	1.00000	13.00000	-5.3873	12.566	-1.1389	-20.939	64.138E-6
36.00000	1.00000	13.00000	-4.0845	12.566	-0.16672	-10.168	41.686E-6
37.00000	1.00000	13.00000	-3.2080	12.566	-0.061960	-6.6802	28.686E-6
38.00000	1.00000	13.00000	-2.5647	12.566	-0.034933	-4.9715	21.654E-6
39.00000	1.00000	13.00000	-2.0719	12.566	-0.023865	-3.9467	17.296E-6
40.00000	1.00000	13.00000	-1.6850	12.566	-0.017908	-3.2566	14.320E-6
41.00000	1.00000	13.00000	-1.3760	12.566	-0.014131	-2.7564	12.149E-6
42.00000	1.00000	13.00000	-1.1264	12.566	-0.011488	-2.3755	10.489E-6
43.00000	1.00000	13.00000	-0.92305	12.566	-0.0095227	-2.0749	9.1754E-6
44.00000	1.00000	13.00000	-0.75623	12.566	-0.0080301	-1.8314	8.1093E-6
45.00000	1.00000	13.00000	-0.61869	12.566	-0.0067960	-1.6300	7.2265E-6
46.00000	1.00000	13.00000	-0.50482	12.566	-0.0058189	-1.4608	6.4839E-6
47.00000	1.00000	13.00000	-0.41025	12.566	-0.0050165	-1.3168	5.8511E-6
48.00000	1.00000	13.00000	-0.33151	12.566	-0.0043502	-1.1930	5.3061E-6
49.00000	1.00000	13.00000	-0.26593	12.566	-0.0037918	-1.0855	4.8327E-6
50.00000	1.00000	13.00000	-0.21097	12.566	-0.0033201	-0.99156	4.4183E-6
51.00000	1.00000	13.00000	-0.16511	12.566	-0.0029192	-0.90885	4.0531E-6
52.00000	1.00000	13.00000	-0.12676	12.566	-0.0025764	-0.83563	3.7295E-6
53.00000	1.00000	13.00000	-0.094685	12.566	-0.0022818	-0.77049	3.4413E-6
54.00000	1.00000	13.00000	-0.069873	12.566	-0.0020270	-0.71222	3.1835E-6
55.00000	1.00000	13.00000	-0.045481	12.566	-0.0018069	-0.66001	2.9519E-6
-25.00000	2.00000	13.00000	-0.019210	12.566	-0.0064711	-1.0027	4.3830E-6
-24.00000	2.00000	13.00000	-0.034419	12.566	-0.0075194	-1.0905	4.7538E-6
-23.00000	2.00000	13.00000	-0.052523	12.566	-0.0087823	-1.1891	5.1674E-6
-22.00000	2.00000	13.00000	-0.070400	12.566	-0.010314	-1.3000	5.6301E-6
-21.00000	2.00000	13.00000	-0.09584	12.566	-0.012187	-1.4254	6.1493E-6
-20.00000	2.00000	13.00000	-0.12989	12.566	-0.014494	-1.5678	6.7339E-6
-19.00000	2.00000	13.00000	-0.16583	12.566	-0.017362	-1.7303	7.3944E-6
-18.00000	2.00000	13.00000	-0.20845	12.566	-0.020963	-1.9166	8.1433E-6
-17.00000	2.00000	13.00000	-0.25901	12.566	-0.025530	-2.1315	8.9957E-6
-16.00000	2.00000	13.00000	-0.31904	12.566	-0.031413	-2.3809	9.9697E-6
-15.00000	2.00000	13.00000	-0.39039	12.566	-0.039073	-2.6726	11.087E-6
-14.00000	2.00000	13.00000	-0.47531	12.566	-0.049214	-3.0162	12.373E-6
-13.00000	2.00000	13.00000	-0.57657	12.566	-0.062883	-3.4249	13.858E-6
-12.00000	2.00000	13.00000	-0.69763	12.566	-0.081692	-3.9159	15.788E-6
-11.00000	2.00000	13.00000	-0.84278	12.566	-0.10820	-4.5131	17.570E-6
-10.00000	2.00000	13.00000	-1.0175	12.566	-0.14661	-5.2495	19.871E-6
-9.00000	2.00000	13.00000	-1.2287	12.566	-0.20414	-6.1729	22.500E-6
-8.00000	2.00000	13.00000	-1.4855	12.566	-0.29376	-7.3536	25.424E-6
-7.00000	2.00000	13.00000	-1.8001	12.566	-0.44011	-8.8996	28.461E-6
-6.00000	2.00000	13.00000	-2.1892	12.566	-0.69313	-10.983	31.033E-6
-5.00000	2.00000	13.00000	-2.6764	12.566	-1.1616	-13.892	31.477E-6
-4.00000	2.00000	13.00000	-3.2967	12.566	-2.1021	-18.124	25.062E-6
-3.00000	2.00000	13.00000	-4.1043	12.566	-4.1634	-24.572	-1.8582E-6
-2.00000	2.00000	13.00000	-5.1838	12.566	-9.0059	-34.765	-87.612E-6
-1.00000	2.00000	13.00000	-6.6427	12.566	-20.074	-50.696	-317.16E-6
0.00000	2.00000	13.00000	-8.4697	12.566	-39.353	-72.257	-745.11E-6
1.00000	2.00000	13.00000	-10.295	12.566	-58.631	-93.799	-0.0011731
2.00000	2.00000	13.00000	-11.749	12.566	-69.698	-109.67	-0.0014029
3.00000	2.00000	13.00000	-12.821	12.566	-74.537	-119.77	-0.0014896
4.00000	2.00000	13.00000	-13.617	12.566	-76.594	-126.08	-0.0015164
5.00000	2.00000	13.00000	-14.223	12.566	-77.527	-130.13	-0.0015235
6.00000	2.00000	13.00000	-14.691	12.566	-77.987	-132.80	-0.0015239
7.00000							

 Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED Total Heave Job No. Sheet No. Rev.									
J15249 Drq. Ref. Made by MP Date Checked									
Name	Location	Displacement	Stresses						
X	Y	Z [Level]	Calc Level	Vert Stress	Sum Princ	Vert Strain			
[m]	[m]	[mod]	[mm]	[mOD]	[kN/m²]	[kN/m²]	[-]		
43.00000	2.00000	13.00000	-0.99776	12.566	-0.010015	-2.1725	9.6056E-6		
44.00000	2.00000	13.00000	-0.81598	12.566	-0.0083852	-1.9099	8.4559E-6		
45.00000	2.00000	13.00000	-0.66669	12.566	-0.0070984	-1.6942	7.5101E-6		
46.00000	2.00000	13.00000	-0.54354	12.566	-0.0060618	-1.5139	6.7188E-6		
47.00000	2.00000	13.00000	-0.44158	12.566	-0.0052139	-1.3613	6.0477E-6		
48.00000	2.00000	13.00000	-0.35693	12.566	-0.0045121	-1.2305	5.4723E-6		
49.00000	2.00000	13.00000	-0.28649	12.566	-0.0039256	-1.1174	4.9742E-6		
50.00000	2.00000	13.00000	-0.22779	12.566	-0.0034316	-1.0189	4.5395E-6		
51.00000	2.00000	13.00000	-0.17881	12.566	-0.0030126	-0.93241	4.1577E-6		
52.00000	2.00000	13.00000	-0.13793	12.566	-0.0026551	-0.85605	3.8202E-6		
53.00000	2.00000	13.00000	-0.10379	12.566	-0.0023484	-0.78827	3.5204E-6		
54.00000	2.00000	13.00000	-0.075295	12.566	-0.0020840	-0.72782	3.2527E-6		
55.00000	2.00000	13.00000	-0.051526	12.566	-0.0018552	-0.67367	3.0127E-6		
-25.00000	3.00000	13.00000	-0.022721	12.566	-0.0067079	-1.0247	4.4766E-6		
-24.00000	3.00000	13.00000	-0.038694	12.566	-0.0078079	-1.1157	4.8603E-6		
-23.00000	3.00000	13.00000	-0.057721	12.566	-0.0091359	-1.2179	5.2890E-6		
-22.00000	3.00000	13.00000	-0.080352	12.566	-0.010750	-1.3333	5.7693E-6		
-21.00000	3.00000	13.00000	-0.107025	12.566	-0.012728	-1.4639	6.3093E-6		
-20.00000	3.00000	13.00000	-0.13218	12.566	-0.015372	-1.6125	6.9184E-6		
-19.00000	3.00000	13.00000	-0.17711	12.566	-0.018217	-1.7824	7.6079E-6		
-18.00000	3.00000	13.00000	-0.22214	12.566	-0.022052	-1.9777	8.3913E-6		
-17.00000	3.00000	13.00000	-0.27564	12.566	-0.026935	-2.2035	9.2850E-6		
-16.00000	3.00000	13.00000	-0.33927	12.566	-0.033232	-2.4663	10.308E-6		
-15.00000	3.00000	13.00000	-0.41502	12.566	-0.041465	-2.7745	11.485E-6		
-14.00000	3.00000	13.00000	-0.50535	12.566	-0.052405	-3.1387	12.843E-6		
-13.00000	3.00000	13.00000	-0.61330	12.566	-0.067205	-3.5733	14.415E-6		
-12.00000	3.00000	13.00000	-0.74263	12.566	-0.087651	-4.0974	16.240E-6		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location		Z [Level] [mOD]	Displacement Z [mm]	Stresses			Vert Strain [-]
	X [m]	Y [m]			Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	
	11.00000	4.00000	13.00000	-18.433	12.566	-86.667	-158.19	-0.0016452
	12.00000	4.00000	13.00000	-18.534	12.566	-86.592	-157.74	-0.0016452
	13.00000	4.00000	13.00000	-18.595	12.566	-86.439	-156.81	-0.0016453
	14.00000	4.00000	13.00000	-18.618	12.566	-86.153	-155.26	-0.0016445
	15.00000	4.00000	13.00000	-18.606	12.566	-85.607	-152.89	-0.0016405
	16.00000	4.00000	13.00000	-18.557	12.566	-84.511	-149.30	-0.0016269
	17.00000	4.00000	13.00000	-18.474	12.566	-82.145	-143.95	-0.0015866
	18.00000	4.00000	13.00000	-18.371	12.566	-76.778	-136.53	-0.0014739
	19.00000	4.00000	13.00000	-18.365	12.566	-65.645	-131.23	-0.0011943
	20.00000	4.00000	13.00000	-19.607	12.566	-88.488	-186.05	-0.0015683
	21.00000	4.00000	13.00000	-20.827	12.566	-111.33	-240.83	-0.0019424
	22.00000	4.00000	13.00000	-20.754	12.566	-100.20	-235.41	-0.0016632
	23.00000	4.00000	13.00000	-20.534	12.566	-94.825	-227.78	-0.0015514
	24.00000	4.00000	13.00000	-20.281	12.566	-92.454	-222.13	-0.0015124
	25.00000	4.00000	13.00000	-20.002	12.566	-91.349	-218.12	-0.0015005
	26.00000	4.00000	13.00000	-19.687	12.566	-90.792	-215.18	-0.0014967
	27.00000	4.00000	13.00000	-19.320	12.566	-90.489	-212.88	-0.0015008
	28.00000	4.00000	13.00000	-18.882	12.566	-90.313	-210.93	-0.0015049
	29.00000	4.00000	13.00000	-18.345	12.566	-90.202	-209.08	-0.0015103
	30.00000	4.00000	13.00000	-17.668	12.566	-90.123	-207.02	-0.0015175
	31.00000	4.00000	13.00000	-16.787	12.566	-90.047	-204.23	-0.0015281
	32.00000	4.00000	13.00000	-15.593	12.566	-89.590	-199.25	-0.0015465
	33.00000	4.00000	13.00000	-13.856	12.566	-88.788	-185.79	-0.0015776
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	-1.00000	5.00000	13.00000	-8.1081	12.566	-23.052	-61.293	-350.22E-6
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	4.00000	5.00000	13.00000	-16.515	12.566	-85.603	-150.47	-0.0016513
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	13.00000	5.00000	13.00000	-19.461	12.566	-87.635	-162.35	-0.0016528
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	16.00000	5.00000	13.00000	-19.421	12.566	-85.625	-154.42	-0.0016395
	17.00000	5.00000	13.00000	-19.333	12.566	-83.191	-148.82	-0.0015930
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	21.00000	5.00000	13.00000	-21.650	12.566	-111.78	-244.06	-0.0019398
	22.00000	5.00000	13.00000	-21.565	12.566	-100.50	-238.23	-0.0016586
	23.00000	5.00000	13.00000	-2				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	-21.00000	6.00000	13.00000	-0.12728	12.566	-0.014139	-1.5629	6.7211E-6
	-20.00000	6.00000	13.00000	-0.16349	12.566	-0.016937	-1.7276	7.3939E-6
	-19.00000	6.00000	13.00000	-0.20660	12.566	-0.020443	-1.9169	8.1589E-6
	-18.00000	6.00000	13.00000	-0.25794	12.566	-0.024881	-2.1356	9.0321E-6
	-17.00000	6.00000	13.00000	-0.31912	12.566	-0.030564	-2.3898	1.0033E-6
	-16.00000	6.00000	13.00000	-0.39211	12.566	-0.037929	-2.6872	1.1105E-6
	-15.00000	6.00000	13.00000	-0.47930	12.566	-0.047612	-3.0380	1.2516E-6
	-14.00000	6.00000	13.00000	-0.58364	12.566	-0.060541	-3.4551	1.4059E-6
	-13.00000	6.00000	13.00000	-0.70879	12.566	-0.078115	-3.9557	1.5856E-6
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	-10.00000	6.00000	13.00000	-1.2608	12.566	-0.18754	-6.2374	2.3246E-6
	-9.00000	6.00000	13.00000	-1.5285	12.566	-0.26343	-7.4127	2.6520E-6
	-8.00000	6.00000	13.00000	-1.8560	12.566	-0.38187	-8.9286	3.0182E-6
	-7.00000	6.00000	13.00000	-2.2596	12.566	-0.57489	-10.928	3.4006E-6
	-6.00000	6.00000	13.00000	-2.7613	12.566	-0.90609	-13.634	3.7277E-6
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	-2.00000	6.00000	13.00000	-6.6041	12.566	-10.860	-43.774	-9.7259E-6
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	4.00000	6.00000	13.00000	-17.058	12.566	-86.161	-153.79	-0.0016516
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	8.00000	6.00000	13.00000	-19.293	12.566	-88.413	-166.37	-0.0016557
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	8.00000	7.00000	13.00000	-19.787	12.566	-88.750	-169.03	-0.0016520
	9.00000	7.00000	13.00000	-20.084	12.566	-88.838	-169.98	-0.0016509
	10.00000	7.00000	13.00000	-20.310	12.566	-88.865	-170.41	-0.0016496
	11.00000	7.00000	13.00000	-20.477	12.566	-88.839	-170.37	-0.0016491



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location		Displacement Z [mm]	Stresses				
	X [m]	Y [m]		Z[Level] [mOD]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	28.00000	7.00000	13.00000	-20.541	12.566	-90.381	-214.36	-0.0014912
	29.00000	7.00000	13.00000	-19.928	12.566	-90.255	-212.26	-0.0014973
	30.00000	7.00000	13.00000	-19.160	12.566	-90.166	-209.96	-0.0015053
	31.00000	7.00000	13.00000	-18.173	12.566	-90.081	-206.90	-0.0015169
	32.00000	7.00000	13.00000	-16.854	12.566	-89.918	-201.63	-0.0015364
	33.00000	7.00000	13.00000	-14.978	12.566	-88.810	-187.84	-0.0015689
	34.00000	7.00000	13.00000	-11.423	12.566	-45.060	-107.76	-739.38E-6
	35.00000	7.00000	13.00000	-7.9701	12.566	-1.3147	-27.745	90.292E-6
	36.00000	7.00000	13.00000	-6.0023	12.566	-0.22190	-14.168	58.370E-6
	37.00000	7.00000	13.00000	-4.6988	12.566	-0.086362	-9.2733	39.812E-6
	38.00000	7.00000	13.00000	-3.7321	12.566	-0.048417	-6.7708	29.467E-6
	39.00000	7.00000	13.00000	-2.9922	12.566	-0.032382	-5.2550	23.012E-6
	40.00000	7.00000	13.00000	-2.4146	12.566	-0.023750	-4.2409	18.636E-6
	41.00000	7.00000	13.00000	-1.9575	12.566	-0.018357	-3.5165	15.489E-6
	42.00000	7.00000	13.00000	-1.5918	12.566	-0.014657	-2.9746	13.126E-6
	43.00000	7.00000	13.00000	-1.2970	12.566	-0.011961	-2.5551	11.292E-6
	44.00000	7.00000	13.00000	-1.0576	12.566	-0.0099154	-2.2216	9.8317E-6
	45.00000	7.00000	13.00000	-0.86232	12.566	-0.0083181	-1.9509	8.6443E-6
	46.00000	7.00000	13.00000	-0.70221	12.566	-0.0070449	-1.7274	7.6626E-6
	47.00000	7.00000	13.00000	-0.57049	12.566	-0.0060137	-1.5402	6.8397E-6
	48.00000	7.00000	13.00000	-0.46180	12.566	-0.0051681	-1.3817	6.1418E-6
	49.00000	7.00000	13.00000	-0.37191	12.566	-0.0044675	-1.2460	5.5440E-6
	50.00000	7.00000	13.00000	-0.29742	12.566	-0.0038820	-1.1289	5.0274E-6
	51.00000	7.00000	13.00000	-0.23560	12.566	-0.0033891	-1.0270	4.5778E-6
	52.00000	7.00000	13.00000	-0.18425	12.566	-0.0029715	-0.93789	4.1837E-6
	53.00000	7.00000	13.00000	-0.14158	12.566	-0.0026156	-0.85931	3.8364E-6
	54.00000	7.00000	13.00000	-0.10610	12.566	-0.0023106	-0.78988	3.5287E-6
	55.00000	7.00000	13.00000	-0.076619	12.566	-0.0020482	-0.72805	3.2547E-6
	-25.00000	8.00000	13.00000	-0.036550	12.566	-0.0076313	-1.1090	4.8347E-6
	-24.00000	8.00000	13.00000	-0.055531	12.566	-0.0089347	-1.2123	5.2687E-6
	-23.00000	8.00000	13.00000	-0.078190	12.566	-0.010519	-1.3290	5.7562E-6
	-22.00000	8.00000	13.00000	-0.10521	12.566	-0.012458	-1.4614	6.3054E-6
	-21.00000	8.00000	13.00000	-0.13742	12.566	-0.014849	-1.6123	6.9265E-6
	-20.00000	8.00000	13.00000	-0.17580	12.566	-0.017824	-1.7852	7.6314E-6
	-19.00000	8.00000	13.00000	-0.22153	12.566	-0.021559	-1.9842	8.4343E-6
	-18.00000	8.00000	13.00000	-0.27604	12.566	-0.026294	-2.2145	9.3527E-6
	-17.00000	8.00000	13.00000	-0.34108	12.566	-0.032366	-2.4829	10.407E-6
	-16.00000	8.00000	13.00000	-0.41874	12.566	-0.040247	-2.7976	11.623E-6
	-15.00000	8.00000	13.00000	-0.51163	12.566	-0.050615	-3.1693	13.031E-6
	-14.00000	8.00000	13.00000	-0.62289	12.566	-0.064466	-3.6122	14.667E-6
	-13.00000	8.00000	13.00000	-0.75647	12.566	-0.083290	-4.1446	16.574E-6
	-12.00000	8.00000	13.00000	-0.91723	12.566	-0.10938	-4.7914	18.803E-6
	-11.00000	8.00000	13.00000	-1.1113	12.566	-0.14634	-5.5862	21.409E-6
	-10.00000	8.00000	13.00000	-1.3464	12.566	-0.20009	-6.5763	24.445E-6
	-9.00000	8.00000	13.00000	-1.6325	12.566	-0.28062	-7.8287	27.943E-6
	-8.00000	8.00000	13.00000	-1.9824	12.566	-0.40562	-9.4416	31.866E-6
	-7.00000	8.00000	13.00000	-2.4129	12.566	-0.60797	-11.563	35.991E-6
	-6.00000	8.00000	13.00000	-2.9468	12.566	-0.95243	-14.423	39.598E-6
	-5.00000	8.00000	13.00000	-3.6153	12.566	-1.5754	-18.393	40.657E-6
	-4.00000	8.00000	13.00000	-4.4625	12.566	-2.7857	-24.096	33.570E-6
	-3.00000	8.00000	13.00000	-5.5533	12.566	-5.3295	-32.591	2.7902E-6
	-2.00000	8.00000	13.00000	-6.9816	12.566	-11.031	-45.601	-93.593E-6
	-1.00000	8.00000	13.00000	-8.8565	12.566	-23.515	-65.215	-345.02E-6
	0.00000	8.00000	13.00000	-11.146	12.566	-44.716	-91.108	-805.71E-6
	1.00000	8.00000	13.00000	-13.433	12.566	-65.916	-116.98	-0.0012665
	2.00000	8.00000	13.00000	-15.302	12.566	-78.398	-136.52	-0.0015182
	3.00000	8.00000	13.00000	-16.721	12.566	-84.095	-149.41	-0.0016150
	4.00000	8.00000	13.00000	-17.797	12.566	-86.633	-157.72	-0.0016464
	5.00000	8.00000	13.00000	-18.625	12.566	-87.834	-163.19	-0.0016544
	6.00000	8.00000	13.00000	-19.270	12.566	-88.444	-166.84	-0.0016544
	7.00000	8.00000	13.00000	-19.773	12.566	-88.770	-169.30	-0.0016521
	8.00000	8.00000	13.00000	-20.168	12.566	-88.947	-170.92	-0.0016496
	9.00000	8.00000	13.00000	-20.473	12.566	-89.035	-171.89	-0.0016476
	10.00000	8.00000	13.00000	-20.707	12.566	-89.063	-172.34	-0.0016463
	11.00000	8.00000	13.00000	-20.879	12.566	-89.036	-172.30	-0.0016457
	12.00000	8.00000	13.00000	-20.998	12.566	-88.949	-171.76	-0.0016458
	13.00000	8.00000	13.00000	-21.070	12.566	-88.774	-170.67	-0.0016460
	14.00000	8.00000	13.00000	-21.099	12.566	-88.450	-168.87	-0.0016453
	15.00000	8.00000	13.00000	-21.084	12.566	-87.845	-166.12	-0.0016413
	16.00000	8.00000	13.00000	-21.028	12.566	-86.655	-162.04	-0.0016274
	17.00000	8.00000	13.00000	-20.930	12.566	-84.150	-156.00	-0.0015863
	18.00000	8.00000	13.00000	-20.808	12.566	-78.581	-147.82	-0.0014718
	19.00000	8.00000	13.00000	-20.778	12.566	-67.182	-141.56	-0.0011892
	20.00000	8.00000	13.00000	-21.991	12.566	-89.714	-195.34	-0.0015594
	21.00000	8.00000	13.00000	-23.177	12.566	-112.24	-249.08	-0.0019298
	22.00000	8.00000	13.00000	-23.068	12.566	-100.84	-242.68	-0.0016478
	23.00000	8.00000	13.00000	-22.808	12.566	-95.270	-234.22	-0.0015342
	24.00000	8.00000	13.00000	-22.510	12.566	-92.758	-227.87	-0.0014946
	25.00000	8.00000	13.00000	-22.181	12.566	-91.559	-223.29	-0.0014827
	26.00000	8.00000	13.00000	-21.808	12.566	-90.940	-219.88	-0.0014813
	27.00000	8.00000	13.00000	-21.376	12.566	-90.597	-217.20	-0.0014841
	28.00000	8.00000	13.00000	-20.860	12.566	-90.393	-214.92	-0.0014889
	29.00000	8.00000	13.00000	-20.231	12.566	-90.264	-212.77	-0.0014952
	30.00000	8.00000	13.00000	-19.445	12.566	-90.172	-210.42	-0.0015034
	31.00000	8.00000	13.00000	-18.437	12.566	-90.087	-207.31	-0.0015152
	32.00000	8.00000	13.00000	-17.097	12.566	-89.922	-202.00	-0.0015348
	33.00000	8.00000	13.00000	-15.196	12.566	-88.813	-188.17	-0.0015675
	34.00000	8.00000	13.00000	-11.616	12.566	-45.062	-108.04	-738.18E-6
	35.00000	8.00000	13.00000	-8.0392	12.566	-1.3167	-27.982	91.318E-6
	36.00000	8.00000	13.00000	-6.1478	12.566	-0.22340	-14.366	59.231E-6
	37.00000	8.00000	13.00000	-4.8224	12.566	-0.087522	-9.4375	40.527E-6
	38.00000	8.00000	13.00000	-3.8360	12.566	-0.049310	-6.9057	30.056E-6
	39.00000	8.00000	13.00000	-3.0788	12.566	-0.033071	-5.3654	23.495E-6



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Vert Stress [kN/m ²]	Stresses Sum Princ [kN/m ²]	Vert Strain [-]	
	-4.00000	9.00000	13.00000	-4.5581	12.566	-2.8110	-24.506	34.741E-6
	-3.00000	9.00000	13.00000	-5.6655	12.566	-5.3625	-33.082	4.1222E-6
	-2.00000	9.00000	13.00000	-7.1119	12.566	-11.073	-46.184	-92.095E-6
	-1.00000	9.00000	13.00000	-9.0061	12.566	-23.568	-65.897	-343.36E-6
	0.00000	9.00000	13.00000	-11.315	12.566	-44.780	-91.893	-803.88E-6
	1.00000	9.00000	13.00000	-13.623	12.566	-65.991	-117.86	-0.00125E-6
	2.00000	9.00000	13.00000	-15.511	12.566	-78.483	-137.50	-0.00151E-6
	3.00000	9.00000	13.00000	-16.947	12.566	-84.189	-150.48	-0.00161E-6
	4.00000	9.00000	13.00000	-18.040	12.566	-86.734	-158.87	-0.0016440
	5.00000	9.00000	13.00000	-18.882	12.566	-87.941	-164.40	-0.0016518
	6.00000	9.00000	13.00000	-19.539	12.566	-88.556	-168.11	-0.0016517
	7.00000	9.00000	13.00000	-20.054	12.566	-88.885	-170.61	-0.0016493
	8.00000	9.00000	13.00000	-20.456	12.566	-89.064	-172.26	-0.0016467
	9.00000	9.00000	13.00000	-20.769	12.566	-89.154	-173.25	-0.0016446
	10.00000	9.00000	13.00000	-21.008	12.566	-89.182	-173.70	-0.0016433
	11.00000	9.00000	13.00000	-21.185	12.566	-89.155	-173.66	-0.0016426
	12.00000	9.00000	13.00000	-21.307	12.566	-89.066	-173.12	-0.0016428
	13.00000	9.00000	13.00000	-21.381	12.566	-88.889	-172.00	-0.0016431
	14.00000	9.00000	13.00000	-21.410	12.566	-88.562	-170.18	-0.0016424
	15.00000	9.00000	13.00000	-21.396	12.566	-87.953	-167.39	-0.0016385
	16.00000	9.00000	13.00000	-21.308	12.566	-86.757	-163.26	-0.0016247
	17.00000	9.00000	13.00000	-21.239	12.566	-84.244	-157.20	-0.0015837
	18.00000	9.00000	13.00000	-21.114	12.566	-78.667	-148.90	-0.0014692
	19.00000	9.00000	13.00000	-21.081	12.566	-67.257	-142.57	-0.0011867
	20.00000	9.00000	13.00000	-22.290	12.566	-89.778	-196.27	-0.0015570
	21.00000	9.00000	13.00000	-23.472	12.566	-112.372	-249.92	-0.0019276
	22.00000	9.00000	13.00000	-23.357	12.566	-100.89	-243.45	-0.0016455
	23.00000	9.00000	13.00000	-23.092	12.566	-95.303	-234.90	-0.0015320
	24.00000	9.00000	13.00000	-22.787	12.566	-92.784	-228.48	-0.0014925
	25.00000	9.00000	13.00000	-22.450	12.566	-91.578	-223.84	-0.0014807
	26.00000	9.00000	13.00000	-22.070	12.566	-90.950	-220.30	-0.0014796
	27.00000	9.00000	13.00000	-21.628	12.566	-90.608	-217.66	-0.0014824
	28.00000	9.00000	13.00000	-21.101	12.566	-90.402	-215.34	-0.0014873
	29.00000	9.00000	13.00000	-20.460	12.566	-90.270	-213.14	-0.0014937
	30.00000	9.00000	13.00000	-19.660	12.566	-90.177	-210.75	-0.0015020
	31.00000	9.00000	13.00000	-18.637	12.566	-90.091	-207.61	-0.0015136
	32.00000	9.00000	13.00000	-17.280	12.566	-89.925	-202.27	-0.0015337
	33.00000	9.00000	13.00000	-15.362	12.566	-88.816	-188.40	-0.0015665
	34.00000	9.00000	13.00000	-11.764	12.566	-45.064	-108.24	-737.29E-6
	35.00000	9.00000	13.00000	-8.1693	12.566	-1.3181	-28.159	92.080E-6
	36.00000	9.00000	13.00000	-6.2607	12.566	-0.22450	-14.516	59.880E-6
	37.00000	9.00000	13.00000	-4.9191	12.566	-0.088421	-9.5632	41.074E-6
	38.00000	9.00000	13.00000	-3.9181	12.566	-0.050011	-7.0104	30.513E-6
	39.00000	9.00000	13.00000	-3.1479	12.566	-0.033619	-5.4523	23.875E-6
	40.00000	9.00000	13.00000	-2.5441	12.566	-0.024714	-4.4031	19.348E-6
	41.00000	9.00000	13.00000	-2.0647	12.566	-0.019173	-3.6500	16.076E-6
	42.00000	9.00000	13.00000	-1.6803	12.566	-0.015254	-3.0848	13.611E-6
	43.00000	9.00000	13.00000	-1.3697	12.566	-0.012436	-2.6464	11.695E-6
	44.00000	9.00000	13.00000	-1.1174	12.566	-0.010296	-2.2976	10.167E-6
	45.00000	9.00000	13.00000	-0.91132	12.566	-0.0086248	-2.0144	8.9246E-6
	46.00000	9.00000	13.00000	-0.74237	12.566	-0.0072939	-1.7807	7.8983E-6
	47.00000	9.00000	13.00000	-0.60338	12.566	-0.0062172	-1.5853	7.0389E-6
	48.00000	9.00000	13.00000	-0.48873	12.566	-0.0053354	-1.4199	6.3109E-6
	49.00000	9.00000	13.00000	-0.39395	12.566	-0.0046058	-1.2786	5.6883E-6
	50.00000	9.00000	13.00000	-0.31545	12.566	-0.0039970	-1.1568	5.1511E-6
	51.00000	9.00000	13.00000	-0.25035	12.566	-0.0034852	-1.0516	4.6843E-6
	52.00000	9.00000	13.00000	-0.19631	12.566	-0.0030521	-0.95863	4.2759E-6
	53.00000	9.00000	13.00000	-0.15143	12.566	-0.0026835	-0.87738	3.9164E-6
	54.00000	9.00000	13.00000	-0.11414	12.566	-0.0023682	-0.80556	3.5985E-6
	55.00000	9.00000	13.00000	-0.083176	12.566	-0.0020971	-0.74177	3.3158E-6
	56.00000	10.00000	13.00000	-0.039773	12.566	-0.0078444	-1.1283	4.9161E-6
	-24.00000	10.00000	13.00000	-0.059454	12.566	-0.0091950	-1.2343	5.3617E-6
	-23.00000	10.00000	13.00000	-0.082959	12.566	-0.010838	-1.3543	5.8628E-6
	-22.00000	10.00000	13.00000	-0.11100	12.566	-0.012852	-1.4907	6.4279E-6
	-21.00000	10.00000	13.00000	-0.14444	12.566	-0.015338	-1.6463	7.0677E-6
	-20.00000	10.00000	13.00000	-0.18431	12.566	-0.018434	-1.8248	7.7947E-6
	-19.00000	10.00000	13.00000	-0.23185	12.566	-0.022324	-2.0304	8.6238E-6
	-18.00000	10.00000	13.00000	-0.28855	12.566	-0.027261	-2.2688	9.5731E-6
	-17.00000	10.00000	13.00000	-0.35623	12.566	-0.033594	-2.5468	10.665E-6
	-16.00000	10.00000	13.00000	-0.43710	12.566	-0.041816	-2.8732	11.924E-6
	-15.00000	10.00000	13.00000	-0.53386	12.566	-0.052639	-3.2592	13.384E-6
	-14.00000	10.00000	13.00000	-0.64982	12.566	-0.067079	-3.7194	15.083E-6
	-13.00000	10.00000	13.00000	-0.78908	12.566	-0.086694	-4.2730	17.065E-6
	-12.00000	10.00000	13.00000	-0.95669	12.566	-0.11384	-4.9456	19.383E-6
	-11.00000	10.00000	13.00000	-1.1590	12.566	-0.15222	-5.7723	22.095E-6
	-10.00000	10.00000	13.00000	-1.4041	12.566	-0.20787	-6.8013	25.256E-6
	-9.00000	10.00000	13.00000	-1.7020	12.566	-0.29096	-8.1016	28.901E-6
	-8.00000	10.00000	13.00000	-2.0660	12.566	-0.41940	-9.7730	32.997E-6
	-7.00000	10.00000	13.00000	-2.5132	12.566	-0.62633	-11.965	37.321E-6
	-6.00000	10.00000	13.00000	-3.0666	12.566	-0.97685	-14.911	41.154E-6
	-5.00000	10.00000	13.00000	-3.7576	12.566	-1.6077	-18.985	42.464E-6
	-4.00000	10.00000	13.00000	-4.6305	12.566	-2.8280	-24.808	35.649E-6
	-3.00000	10.00000	13.00000	-5.7498	12.566	-5.3842	-33.440	5.1592E-6
	-2.00000	10.00000	13.00000	-7.2093	12.566	-11.100	-46.604	-90.924E-6
	-1.00000	10.00000	13.00000	-9.1172	12.566	-23.601	-66.383	-342.05E-6
	0.00000	10.00000	13.00000	-11.441	12.566	-44.819	-92.448	-802.43E-6
	1.00000	10.00000	13.00000	-13.762	12.566	-66.036	-118.49	-0.0012629
	2.00000	10.00000	13.00000	-15.664	12.566	-78.535	-138.19	-0.0015143
	3.00000	10.00000	13.00000	-17.113	12.566	-84.246	-151.23	-0.0016109
	4.00000	10.00000	13.00000	-18.217	12.566	-86.796	-159.67	-0.0016420
	5.00000	10.00000	13.00000	-19.070	12.566	-88.008	-165.20	-0.0016499
	6.00000	10.00000	13.00000	-19.736	12.566	-88.624	-168.99	-0.0016495
	7.00000	10.00000	13.00000	-20.258	12.566	-88.955	-171.52	-0.0016470
	8.00000	10.00000	13.00000	-20.668	12.566	-89.136	-173.19	-0.0016444
	9.00000	10.00000	13.00000	-20.986	12.566	-89.226	-174.20	-0.0016423
	10.00000	10.00000	13.00000	-21.229	12.566	-89.254	-174.66	-0.0016409
	11.00000	10.00000	13.00000	-21.409	12.566	-89.227	-174.62	-0.0016404
	12.00000	10.00000	13.00000	-21.534	12.566	-89.138	-174.07	-0.0016405
	13.00000	10.00000	13.00000	-21.609	12.566	-88.959	-172.94	-0.0016407
	14.00000	10.00000	13.00000	-21.639	12.566	-88.630	-171.09	-0.0016401
	15.00000	10.00000	13.00000	-21.624	12.566	-88.018	-168.20	-0.0016366
	16.00000	10.00000	13.00000	-21.566	12.566	-86.819	-164.11	-0.0016225
	17.00000	10.00000	13.00000	-21.466	12.566	-84.301	-158.01	-0.0015815
	18.00000	10.00000	13.00000	-21.339	12.566	-78.718	-149.66	-0.0014671
	19.00000	10.00000	13.00000	-21.304	12.566	-67.303	-143.28	-0.0011847
	20.00000	10.00000	13.00000	-22.510	12.566	-89.818	-196.92	-0.0015516
	21.00000	10.00000	13.00000	-23.689	12.566	-112.33	-250.52	-0.0019256
	22.00000	10.00000	13.00000	-23.570	12.566	-100.91	-243.99	-0.0016438
	23.00000	10.00000	13.00000	-23.300	12.566	-95.326	-235.40	-0.0015304
	24.00000	10.00000	13.00000	-22.990	12.566	-92.801	-228.93	-0.0014910
	25.00000	10.00000	13.00000	-22.648	12.566	-91.592	-224.25	-0.0014796
	26.00000	10.00000	13.00000	-22.261	12.566	-90.965	-220.75	-0.0014781
	27.00000	10.00000	13.00000	-21.812	12.566	-90.616	-217.98	-0.0014811
	28.00000	10.00000	13.00000	-21.277	12.566	-90.408	-215.63	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
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Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
45.00000	10.00000	13.00000	-0.92862	12.566	-0.0087336	-2.0368	9.0234E-6
46.00000	10.00000	13.00000	-0.75659	12.566	-0.0073825	-1.7996	7.9817E-6
47.00000	10.00000	13.00000	-0.61507	12.566	-0.0062897	-1.6012	7.1096E-6
48.00000	10.00000	13.00000	-0.49832	12.566	-0.0053951	-1.4335	6.3710E-6
49.00000	10.00000	13.00000	-0.40181	12.566	-0.0046552	-1.2902	5.7396E-6
50.00000	10.00000	13.00000	-0.32189	12.566	-0.0040380	-1.1667	5.1952E-6
51.00000	10.00000	13.00000	-0.25563	12.566	-0.0035195	-1.0596	4.7222E-6
52.00000	10.00000	13.00000	-0.20063	12.566	-0.0030809	-0.96602	4.3087E-6
53.00000	10.00000	13.00000	-0.15496	12.566	-0.0027078	-0.88379	3.9449E-6
54.00000	10.00000	13.00000	-0.11703	12.566	-0.0023987	-0.81115	3.6233E-6
55.00000	10.00000	13.00000	-0.08531	12.566	-0.0021145	-0.74666	3.3375E-6
-25.00000	11.00000	13.00000	-0.040801	12.566	-0.0079123	-1.1343	4.9419E-6
-24.00000	11.00000	13.00000	-0.060705	12.566	-0.0092778	-1.2413	5.3913E-6
-23.00000	11.00000	13.00000	-0.084479	12.566	-0.010940	-1.3624	5.8966E-6
-22.00000	11.00000	13.00000	-0.11285	12.566	-0.012977	-1.5000	6.4668E-6
-21.00000	11.00000	13.00000	-0.14668	12.566	-0.015493	-1.6571	7.1126E-6
-20.00000	11.00000	13.00000	-0.18703	12.566	-0.018628	-1.8373	7.8465E-6
-19.00000	11.00000	13.00000	-0.23513	12.566	-0.022567	-2.0451	8.6839E-6
-18.00000	11.00000	13.00000	-0.29253	12.566	-0.027566	-2.2860	9.6431E-6
-17.00000	11.00000	13.00000	-0.36105	12.566	-0.033981	-2.5671	10.746E-6
-16.00000	11.00000	13.00000	-0.44293	12.566	-0.042023	-2.8972	12.020E-6
-15.00000	11.00000	13.00000	-0.54092	12.566	-0.053265	-3.2876	13.496E-6
-14.00000	11.00000	13.00000	-0.65835	12.566	-0.067892	-3.7532	15.214E-6
-13.00000	11.00000	13.00000	-0.79938	12.566	-0.087745	-4.3134	17.220E-6
-12.00000	11.00000	13.00000	-0.96914	12.566	-0.11520	-4.9940	19.566E-6
-11.00000	11.00000	13.00000	-1.1740	12.566	-0.15199	-5.8103	22.311E-6
-10.00000	11.00000	13.00000	-1.4221	12.566	-0.21019	-6.8713	25.511E-6
-9.00000	11.00000	13.00000	-1.7237	12.566	-0.29399	-8.1858	29.202E-6
-8.00000	11.00000	13.00000	-2.0920	12.566	-0.42336	-9.8745	33.351E-6
-7.00000	11.00000	13.00000	-2.5442	12.566	-0.63149	-12.088	37.736E-6
-6.00000	11.00000	13.00000	-3.1103	12.566	-0.98058	-15.058	41.637E-6
-5.00000	11.00000	13.00000	-3.8009	12.566	-1.1613	-19.159	43.024E-6
-4.00000	11.00000	13.00000	-4.6811	12.566	-2.8389	-25.015	36.295E-6
-3.00000	11.00000	13.00000	-5.8085	12.566	-5.3978	-33.684	5.8960E-6
-2.00000	11.00000	13.00000	-7.2767	12.566	-11.117	-46.888	-90.091E-6
-1.00000	11.00000	13.00000	-9.1938	12.566	-23.621	-66.709	-141.12E-6
0.00000	11.00000	13.00000	-11.527	12.566	-44.843	-92.817	-801.40E-6
1.00000	11.00000	13.00000	-13.857	12.566	-66.064	-118.90	-0.0012618
2.00000	11.00000	13.00000	-15.768	12.566	-78.566	-138.65	-0.0015131
3.00000	11.00000	13.00000	-17.226	12.566	-84.280	-151.72	-0.0016095
4.00000	11.00000	13.00000	-18.838	12.566	-86.838	-160.20	-0.0016406
5.00000	11.00000	13.00000	-19.199	12.566	-88.045	-165.80	-0.0016482
6.00000	11.00000	13.00000	-19.871	12.566	-88.664	-169.58	-0.0016480
7.00000	11.00000	13.00000	-20.398	12.566	-88.997	-172.12	-0.0016455
8.00000	11.00000	13.00000	-20.812	12.566	-89.178	-173.80	-0.0016428
9.00000	11.00000	13.00000	-21.134	12.566	-89.270	-174.83	-0.0016406
10.00000	11.00000	13.00000	-21.380	12.566	-89.298	-175.29	-0.0016393
11.00000	11.00000	13.00000	-21.562	12.566	-89.270	-175.25	-0.0016387
12.00000	11.00000	13.00000	-21.689	12.566	-89.180	-174.69	-0.0016388
13.00000	11.00000	13.00000	-21.765	12.566	-89.001	-173.55	-0.0016391
14.00000	11.00000	13.00000	-21.795	12.566	-88.670	-171.69	-0.0016385
15.00000	11.00000	13.00000	-21.781	12.566	-88.057	-168.86	-0.0016346
16.00000	11.00000	13.00000	-21.722	12.566	-86.855	-164.67	-0.0016209
17.00000	11.00000	13.00000	-21.621	12.566	-84.335	-158.54	-0.0015800
18.00000	11.00000	13.00000	-21.493	12.566	-78.749	-150.17	-0.0014657
19.00000	11.00000	13.00000	-21.456	12.566	-67.336	-143.75	-0.0013946
20.00000	11.00000	13.00000	-22.661	12.566	-89.841	-197.36	-0.0015537
21.00000	11.00000	13.00000	-23.837	12.566	-112.35	-250.92	-0.0019243
22.00000	11.00000	13.00000	-23.715	12.566	-100.93	-244.35	-0.0016426
23.00000	11.00000	13.00000	-23.442	12.566	-95.339	-235.73	-0.0015293
24.00000	11.00000	13.00000	-23.129	12.566	-92.812	-229.80	-0.0014899
25.00000	11.00000	13.00000	-22.783	12.566	-91.601	-224.51	-0.0014783
26.00000	11.00000	13.00000	-22.392	12.566	-90.972	-220.99	-0.0014771
27.00000	11.00000	13.00000	-21.938	12.566	-90.621	-218.20	-0.0014802
28.00000	11.00000	13.00000	-21.398	12.566	-90.412	-215.83	-0.0014853
29.00000	11.00000	13.00000	-20.741	12.566	-90.279	-213.50	-0.0014769
30.00000	11.00000	13.00000	-19.924	12.566	-90.184	-211.16	-0.0015003
31.00000	11.00000	13.00000	-18.883	12.566	-90.096	-207.98	-0.0015124
32.00000	11.00000	13.00000	-17.506	12.566	-89.929	-202.59	-0.0015323
33.00000	11.00000	13.00000	-15.567	12.566	-88.819	-188.69	-0.0015653
34.00000	11.00000	13.00000	-11.948	12.566	-45.067	-108.49	-0.0012366
35.00000	11.00000	13.00000	-8.3321	12.566	-1.3200	-28.374	93.008E-6
36.00000	11.00000	13.00000	-6.4030	12.566	-0.22601	-14.700	60.679E-6
37.00000	11.00000	13.00000	-5.0422	12.566	-0.089567	-9.7200	41.755E-6
38.00000	11.00000	13.00000	-4.0234	12.566	-0.050913	-7.1427	31.091E-6
39.00000	11.00000	13.00000	-3.2373	12.566	-0.034331	-5.5635	24.362E-6
40.00000	11.00000	13.00000	-2.6194	12.566	-0.025277	-4.4962	19.755E-6
41.00000	11.00000	13.00000	-2.1277	12.566	-0.019560	-3.7278	16.418E-6
42.00000	11.00000	13.00000	-1.7327	12.566	-0.015611	-3.1499	13.897E-6
43.00000	11.00000	13.00000	-1.4132	12.566	-0.012722	-2.7008	11.934E-6
44.00000	11.00000	13.00000	-1.1534	12.566	-0.010526	-2.3494	10.368E-6
45.00000	11.00000	13.00000	-0.94100	12.566	-0.0088118	-2.0528	9.0940E-6
46.00000	11.00000	13.00000	-0.76680	12.566	-0.0074462	-1.8131	8.0415E-6
47.00000	11.00000	13.00000	-0.62347	12.566	-0.0063419	-1.6127	7.1603E-6
48.00000	11.00000	13.00000	-0.50523	12.566	-0.0054380	-1.4432	6.4142E-6
49.00000	11.00000	13.00000	-0.40748	12.566	-0.0046907	-1.2989	5.7766E-6
50.00000	11.00000	13.00000	-0.32654	12.566	-0.0040676	-1.1739	5.2269E-6
51.00000	11.00000	13.00000	-0.25944	12.566	-0.0035442	-1.0658	4.7495E-6
52.00000	11.00000	13.00000	-0.20375	12.566	-0.0031016	-0.97135	4.3323E-6
53.00000	11.00000	13.00000	-0.15751	12.566	-0.0027252	-0.88841	3.9655E-6
54.00000	11.00000	13.00000	-0.11911	12.566	-0.0024035	-0.81517	3.6412E-6
55.00000	11.00000	13.00000	-0.087232	12.566	-0.0021271	-0.75017	3.3532E-6
-25.00000	12.00000	13.00000	-0.041422	12.566	-0.0079533	-1.1379	4.9575E-6
-24.00000	12.00000	13.00000	-0.061461	12.566	-0.0093278	-1.2455	5.4091E-6
-23.00000	12.00000	13.00000	-0.085398	12.566	-0.011001	-1.3672	5.9170E-6
-22.00000	12.00000	13.00000	-0.11396	12.566	-0.013053	-1.5056	6.4903E-6
-21.00000	12.00000	13.00000	-0.14804	12.566	-0.015587	-1.6636	7.1396E-6
-20.00000	12.00000	13.00000	-0.18866	12.566	-0.018744	-1.8449	7.8778E-6
-19.00000	12.00000	13.00000	-0.23712	12.566	-0.022713	-2.0540	8.7202E-6
-18.00000	12.00000	13.00000	-0.29493	12.566	-0.027750	-2.2964	9.6853E-6
-17.00000	12.00000	13.00000	-0.36396	12.566	-0.034212	-2.5792	10.795E-6
-16.00000	12.00000	13.00000	-0.44645	12.566	-0.042605	-2.9116	12.077E-6
-15.00000	12.00000	13.00000	-0.54517	12.566	-0.053644	-3.3048	13.564E-6
-14.00000	12.00000	13.00000	-0.66350	12.566	-0.068378	-3.7736	15.294E-6
-13.00000	12.00000	13.00000	-0.80559	12.566	-0.088372	-4.3377	17.313E-6
-12.00000	12.00000	13.00000	-0.97663	12.566	-0.11601	-5.1231	19.676E-6
-11.00000	12.00000	13.00000	-1.1830	12.566	-0.15505	-5.8653	22.441E-6
-10.00000	12.00000	13.00000	-1.4330	12.566	-0.21155	-6.9132	25.664E-6
-9.00000	12.00000	13.00000	-1.7367	12.566	-0.29577	-8.2361	29.382E-6
-8.00000	12.00000	13.00000	-2.1075	12.566	-0.42566	-9.9348	33.563E-6
-7.00000	12.00000	13.00000	-2.5626	12.566	-0.63446	-12.160	37.984E-6
-6.00000	12.00000	13.00000	-3.1252	12.566	-0.98734	-15.144	41.926E-6
-5.00000	12.00000	13.00000	-3.8266	12.566	-1.6211	-19.262	43.359E-6
-4.00000	12.00000	13.00000	-4.7111	12.566	-2.8450	-25.136	36.680E-6
-3.00000	12.00000	13.00000	-5.8432	12.566	-5.4054	-33.825	6.3355E-6
-2.00000	12.00000	13.00000	-7.3164	12.566	-11.126	-47.052	-89.594E-6
-1.00000	12.00000	13.00000	-9.2387	12.566	-23.632		

Total Heave

Job No.	Sheet No.	Rev.
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Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
13.00000	12.00000	13.00000	-21.856	12.566	-89.023	-173.90	-0.0016381
14.00000	12.00000	13.00000	-21.886	12.566	-88.692	-172.03	-0.0016375
15.00000	12.00000	13.00000	-21.872	12.566	-88.077	-169.19	-0.0016337
16.00000	12.00000	13.00000	-21.814	12.566	-86.875	-164.99	-0.0016200
17.00000	12.00000	13.00000	-21.712	12.566	-84.353	-158.84	-0.0015791
18.00000	12.00000	13.00000	-21.583	12.566	-78.766	-150.45	-0.0014648
19.00000	12.00000	13.00000	-21.545	12.566	-67.345	-144.02	-0.0011825
20.00000	12.00000	13.00000	-22.748	12.566	-89.854	-197.61	-0.0015530
21.00000	12.00000	13.00000	-23.923	12.566	-112.36	-251.15	-0.0019236
22.00000	12.00000	13.00000	-23.800	12.566	-100.94	-244.56	-0.0016419
23.00000	12.00000	13.00000	-23.525	12.566	-95.347	-235.92	-0.0015286
24.00000	12.00000	13.00000	-23.210	12.566	-92.819	-229.40	-0.0014893
25.00000	12.00000	13.00000	-22.862	12.566	-91.606	-224.67	-0.0014777
26.00000	12.00000	13.00000	-22.468	12.566	-90.976	-221.13	-0.0014766
27.00000	12.00000	13.00000	-22.011	12.566	-90.625	-218.33	-0.0014797
28.00000	12.00000	13.00000	-21.467	12.566	-90.415	-215.95	-0.0014849
29.00000	12.00000	13.00000	-20.807	12.566	-90.280	-213.69	-0.0014914
30.00000	12.00000	13.00000	-19.986	12.566	-90.185	-211.25	-0.0015000
31.00000	12.00000	13.00000	-18.941	12.566	-90.097	-208.06	-0.0015121
32.00000	12.00000	13.00000	-17.559	12.566	-89.930	-202.67	-0.0015320
33.00000	12.00000	13.00000	-15.616	12.566	-88.819	-188.75	-0.0015560
34.00000	12.00000	13.00000	-11.992	12.566	-45.067	-108.55	-735.98E-6
35.00000	12.00000	13.00000	-8.3710	12.566	-1.3204	-28.424	93.226E-6
36.00000	12.00000	13.00000	-6.4372	12.566	-0.22637	-14.744	60.868E-6
37.00000	12.00000	13.00000	-5.0720	12.566	-0.089846	-9.7574	41.918E-6
38.00000	12.00000	13.00000	-4.0490	12.566	-0.051134	-7.1746	31.230E-6
39.00000	12.00000	13.00000	-3.2591	12.566	-0.034507	-5.5904	24.480E-6
40.00000	12.00000	13.00000	-2.6379	12.566	-0.025417	-4.5189	19.855E-6
41.00000	12.00000	13.00000	-2.1432	12.566	-0.019672	-3.7470	16.502E-6
42.00000	12.00000	13.00000	-1.7457	12.566	-0.015701	-3.1660	13.968E-6
43.00000	12.00000	13.00000	-1.4241	12.566	-0.012794	-2.7144	11.994E-6
44.00000	12.00000	13.00000	-1.1624	12.566	-0.010584	-2.3546	10.418E-6
45.00000	12.00000	13.00000	-0.94844	12.566	-0.0088589	-2.0624	9.1365E-6
46.00000	12.00000	13.00000	-0.77295	12.566	-0.0074846	-1.8212	8.0774E-6
47.00000	12.00000	13.00000	-0.62853	12.566	-0.0063734	-1.6196	7.1908E-6
48.00000	12.00000	13.00000	-0.50939	12.566	-0.0054640	-1.4491	6.4403E-6
49.00000	12.00000	13.00000	-0.41090	12.566	-0.0047122	-1.3035	5.7988E-6
50.00000	12.00000	13.00000	-0.32935	12.566	-0.0040855	-1.1782	5.2460E-6
51.00000	12.00000	13.00000	-0.26174	12.566	-0.0035591	-1.0695	4.7660E-6
52.00000	12.00000	13.00000	-0.20563	12.566	-0.0031141	-0.97456	4.3466E-6
53.00000	12.00000	13.00000	-0.15905	12.566	-0.0027358	-0.89120	3.9778E-6
54.00000	12.00000	13.00000	-0.12037	12.566	-0.0024124	-0.81760	3.6520E-6
55.00000	12.00000	13.00000	-0.088260	12.566	-0.0021347	-0.75230	3.3626E-6
-25.00000	13.00000	13.00000	-0.041630	12.566	-0.0079670	-1.1392	4.9627E-6
-24.00000	13.00000	13.00000	-0.061714	12.566	-0.0093445	-1.2469	5.4150E-6
-23.00000	13.00000	13.00000	-0.085705	12.566	-0.011022	-1.3693	5.9238E-6
-22.00000	13.00000	13.00000	-0.11434	12.566	-0.013078	-1.5075	6.4981E-6
-21.00000	13.00000	13.00000	-0.14849	12.566	-0.015618	-1.6658	7.1487E-6
-20.00000	13.00000	13.00000	-0.18921	12.566	-0.018783	-1.8474	7.8883E-6
-19.00000	13.00000	13.00000	-0.23778	12.566	-0.022762	-2.0569	8.7324E-6
-18.00000	13.00000	13.00000	-0.29574	12.566	-0.027812	-2.2999	9.6995E-6
-17.00000	13.00000	13.00000	-0.36493	12.566	-0.034292	-2.5834	10.812E-6
-16.00000	13.00000	13.00000	-0.44763	12.566	-0.042704	-2.9165	12.097E-6
-15.00000	13.00000	13.00000	-0.54659	12.566	-0.053770	-3.3105	13.587E-6
-14.00000	13.00000	13.00000	-0.66522	12.566	-0.068540	-3.7804	15.320E-6
-13.00000	13.00000	13.00000	-0.80767	12.566	-0.088580	-4.3458	17.345E-6
-12.00000	13.00000	13.00000	-0.97913	12.566	-0.11628	-5.0328	19.713E-6
-11.00000	13.00000	13.00000	-1.1861	12.566	-0.15539	-5.8769	22.484E-6
-10.00000	13.00000	13.00000	-1.4366	12.566	-0.21201	-6.9271	25.715E-6
-9.00000	13.00000	13.00000	-1.7410	12.566	-0.29635	-8.2528	29.442E-6
-8.00000	13.00000	13.00000	-2.1126	12.566	-0.42641	-9.9549	33.633E-6
-7.00000	13.00000	13.00000	-2.5688	12.566	-0.63542	-12.184	38.066E-6
-6.00000	13.00000	13.00000	-3.1324	12.566	-0.98858	-15.173	42.022E-6
-5.00000	13.00000	13.00000	-3.8351	12.566	-1.6227	-19.296	43.470E-6
-4.00000	13.00000	13.00000	-4.7210	12.566	-2.8469	-25.176	36.808E-6
-3.00000	13.00000	13.00000	-5.8546	12.566	-5.4078	-33.872	6.4814E-6
-2.00000	13.00000	13.00000	-7.3295	12.566	-11.129	-47.105	-89.429E-6
-1.00000	13.00000	13.00000	-9.2536	12.566	-23.635	-66.958	-340.38E-6
0.00000	13.00000	13.00000	-11.594	12.566	-44.860	-93.099	-800.58E-6
1.00000	13.00000	13.00000	-13.931	12.566	-66.083	-119.21	-0.0012609
2.00000	13.00000	13.00000	-15.849	12.566	-78.587	-138.99	-0.0015121
3.00000	13.00000	13.00000	-17.314	12.566	-84.304	-152.09	-0.0016085
4.00000	13.00000	13.00000	-18.432	12.566	-86.858	-160.60	-0.0016395
5.00000	13.00000	13.00000	-19.298	12.566	-88.072	-166.22	-0.0016470
6.00000	13.00000	13.00000	-19.975	12.566	-88.692	-170.01	-0.0016467
7.00000	13.00000	13.00000	-20.506	12.566	-89.026	-172.58	-0.0016442
8.00000	13.00000	13.00000	-20.924	12.566	-89.208	-174.27	-0.0016415
9.00000	13.00000	13.00000	-21.249	12.566	-89.300	-175.29	-0.0016393
10.00000	13.00000	13.00000	-21.497	12.566	-89.328	-175.76	-0.0016379
11.00000	13.00000	13.00000	-21.681	12.566	-89.301	-175.72	-0.0016374
12.00000	13.00000	13.00000	-21.809	12.566	-89.210	-175.16	-0.0016375
13.00000	13.00000	13.00000	-21.886	12.566	-89.030	-174.02	-0.0016377
14.00000	13.00000	13.00000	-21.917	12.566	-88.699	-172.14	-0.0016372
15.00000	13.00000	13.00000	-21.902	12.566	-88.083	-169.30	-0.0016334
16.00000	13.00000	13.00000	-21.844	12.566	-86.881	-165.09	-0.0016197
17.00000	13.00000	13.00000	-21.742	12.566	-84.359	-158.94	-0.0015788
18.00000	13.00000	13.00000	-21.613	12.566	-78.771	-150.55	-0.0014646
19.00000	13.00000	13.00000	-21.575	12.566	-67.350	-144.10	-0.0011823
20.00000	13.00000	13.00000	-22.777	12.566	-89.858	-197.69	-0.0015527
21.00000	13.00000	13.00000	-23.952	12.566	-112.37	-251.22	-0.0019234
22.00000	13.00000	13.00000	-23.828	12.566	-100.94	-244.63	-0.0016417
23.00000	13.00000	13.00000	-23.552	12.566	-95.349	-235.98	-0.0015284
24.00000	13.00000	13.00000	-23.237	12.566	-92.821	-229.45	-0.0014891
25.00000	13.00000	13.00000	-22.887	12.566	-91.607	-224.72	-0.0014775
26.00000	13.00000	13.00000	-22.493	12.566	-90.978	-221.18	-0.0014764
27.00000	13.00000	13.00000	-22.035	12.566	-90.626	-218.37	-0.0014796
28.00000	13.00000	13.00000	-21.490	12.566	-90.415	-215.98	-0.0014847

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by	Date	Checked
MP		

Name	X	Location	Displacement	Stresses				
	[m]	[m]	[Level] [mm]	Calc Level [MOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]	
	-19.00000	14.00000	13.00000	-0.23712	12.566	-0.022713	-2.0540	8.7202E-6
	-18.00000	14.00000	13.00000	-0.29493	12.566	-0.027750	-2.2964	9.6853E-6
	-17.00000	14.00000	13.00000	-0.36396	12.566	-0.034214	-2.5793	10.795E-6
	-16.00000	14.00000	13.00000	-0.44645	12.566	-0.042605	-2.9116	12.077E-6
	-15.00000	14.00000	13.00000	-0.54517	12.566	-0.053644	-3.3048	13.564E-6
	-14.00000	14.00000	13.00000	-0.66350	12.566	-0.068378	-3.7736	15.294E-6
	-13.00000	14.00000	13.00000	-0.80559	12.566	-0.088372	-4.3377	17.313E-6
	-12.00000	14.00000	13.00000	-0.97663	12.566	-0.11601	-5.0231	19.676E-6
	-11.00000	14.00000	13.00000	-1.1830	12.566	-0.15505	-5.8653	22.441E-6
	-10.00000	14.00000	13.00000	-1.4330	12.566	-0.21155	-6.9132	25.664E-6
	-9.00000	14.00000	13.00000	-1.7367	12.566	-0.29577	-8.2361	29.382E-6
	-8.00000	14.00000	13.00000	-2.1075	12.566	-0.42566	-9.9348	33.563E-6
	-7.00000	14.00000	13.00000	-2.5626	12.566	-0.63446	-12.160	37.984E-6
	-6.00000	14.00000	13.00000	-3.1252	12.566	-0.98734	-15.144	41.926E-6
	-5.00000	14.00000	13.00000	-3.8266	12.566	-1.6211	-19.262	43.359E-6
	-4.00000	14.00000	13.00000	-4.7111	12.566	-2.8450	-25.136	36.680E-6
	-3.00000	14.00000	13.00000	-5.8432	12.566	-5.4054	-33.825	6.3355E-6
	-2.00000	14.00000	13.00000	-7.3164	12.566	-11.126	-47.052	-89.594E-6
	-1.00000	14.00000	13.00000	-9.2387	12.566	-23.632	-66.897	-340.56E-6
	0.00000	14.00000	13.00000	-11.577	12.566	-44.856	-93.029	-800.79E-6
	1.00000	14.00000	13.00000	-13.913	12.566	-66.078	-119.14	-0.0012611
	2.00000	14.00000	13.00000	-15.829	12.566	-78.582	-138.91	-0.0015123
	3.00000	14.00000	13.00000	-17.292	12.566	-84.298	-152.00	-0.0016087
	4.00000	14.00000	13.00000	-18.409	12.566	-86.851	-160.50	-0.0016398
	5.00000	14.00000	13.00000	-19.273	12.566	-88.066	-166.12	-0.0016473
	6.00000	14.00000	13.00000	-19.949	12.566	-88.686	-169.91	-0.0016476
	7.00000	14.00000	13.00000	-20.480	12.566	-89.019	-172.47	-0.0016445
	8.00000	14.00000	13.00000	-20.896	12.566	-89.201	-174.15	-0.0016418
	9.00000	14.00000	13.00000	-21.220	12.566	-89.292	-175.18	-0.0016396
	10.00000	14.00000	13.00000	-21.468	12.566	-89.321	-175.64	-0.0016383
	11.00000	14.00000	13.00000	-21.652	12.566	-89.292	-175.65	-0.0016377
	12.00000	14.00000	13.00000	-21.779	12.566	-89.203	-175.05	-0.0016378
	13.00000	14.00000	13.00000	-21.856	12.566	-89.023	-173.90	-0.0016381
	14.00000	14.00000	13.00000	-21.886	12.566	-88.692	-172.03	-0.0016375
	15.00000	14.00000	13.00000	-21.872	12.566	-88.077	-169.19	-0.0016337
	16.00000	14.00000	13.00000	-21.814	12.566	-86.875	-164.93	-0.0016206
	17.00000	14.00000	13.00000	-21.712	12.566	-84.353	-158.84	-0.0015791
	18.00000	14.00000	13.00000	-21.583	12.566	-78.766	-150.45	-0.0014648
	19.00000	14.00000	13.00000	-21.545	12.566	-67.345	-144.02	-0.0011825
	20.00000	14.00000	13.00000	-22.748	12.566	-89.854	-197.61	-0.0015530
	21.00000	14.00000	13.00000	-23.923	12.566	-112.36	-251.15	-0.0019236
	22.00000	14.00000	13.00000	-23.800	12.566	-100.94	-244.56	-0.0016419
	23.00000	14.00000	13.00000	-23.525	12.566	-95.347	-235.92	-0.0015286
	24.00000	14.00000	13.00000	-23.210	12.566	-92.819	-229.40	-0.0014893
	25.00000	14.00000	13.00000	-22.862	12.566	-91.606	-224.67	-0.0014777
	26.00000	14.00000	13.00000	-22.468	12.566	-90.976	-221.13	-0.0014766
	27.00000	14.00000	13.00000	-22.011	12.566	-90.625	-218.33	-0.0014797
	28.00000	14.00000	13.00000	-21.467	12.566	-90.415	-215.95	-0.0014849
	29.00000	14.00000	13.00000	-20.807	12.566	-90.280	-213.69	-0.0014914
	30.00000	14.00000	13.00000	-19.986	12.566	-90.185	-211.25	-0.0015000
	31.00000	14.00000	13.00000	-18.941	12.566	-90.097	-208.06	-0.0015121
	32.00000	14.00000	13.00000	-17.559	12.566	-89.930	-202.67	-0.0015320
	33.00000	14.00000	13.00000	-15.616	12.566	-88.819	-188.75	-0.0015650
	34.00000	14.00000	13.00000	-11.992	12.566	-45.067	-108.55	-735.98E-6
	35.00000	14.00000	13.00000	-8.3710	12.566	-1.3204	-28.424	93.226E-6
	36.00000	14.00000	13.00000	-6.4372	12.566	-0.22637	-14.744	60.868E-6
	37.00000	14.00000	13.00000	-5.0720	12.566	-0.089846	-9.7574	41.918E-6
	38.00000	14.00000	13.00000	-4.0490	12.566	-0.051134	-7.1746	31.230E-6
	39.00000	14.00000	13.00000	-3.2591	12.566	-0.034507	-5.5904	24.480E-6
	40.00000	14.00000	13.00000	-2.6379	12.566	-0.025417	-4.5189	19.855E-6
	41.00000	14.00000	13.00000	-2.1432	12.566	-0.019672	-3.7470	16.502E-6
	42.00000	14.00000	13.00000	-1.7457	12.566	-0.015701	-3.1660	13.968E-6
	43.00000	14.00000	13.00000	-1.4241	12.566	-0.012794	-2.7144	11.994E-6
	44.00000	14.00000	13.00000	-1.1624	12.566	-0.010584	-2.3546	10.418E-6
	45.00000	14.00000	13.00000	-0.94844	12.566	-0.0088589	-2.0624	9.1365E-6
	46.00000	14.00000	13.00000	-0.77295	12.566	-0.0074846	-1.8212	8.0774E-6
	47.00000	14.00000	13.00000	-0.62853	12.566	-0.0063734	-1.6196	7.1908E-6
	48.00000	14.00000	13.00000	-0.50939	12.566	-0.0054640	-1.4491	6.4403E-6
	49.00000	14.00000	13.00000	-0.41090	12.566	-0.0047122	-1.3035	5.7988E-6
	50.00000	14.00000	13.00000	-0.32935	12.566	-0.0040855	-1.1782	5.2460E-6
	51.00000	14.00000	13.00000	-0.26174	12.566	-0.0035591	-1.0695	4.7660E-6
	52.00000	14.00000	13.00000	-0.20563	12.566	-0.0031141	-0.97456	4.3466E-6
	53.00000	14.00000	13.00000	-0.15905	12.566	-0.0027358	-0.89120	3.9778E-6
	54.00000	14.00000	13.00000	-0.12037	12.566	-0.0024124	-0.81760	3.6520E-6
	55.00000	14.00000	13.00000	-0.088260	12.566	-0.0021347	-0.75230	3.3626E-6
	-25.00000	15.00000	13.00000	-0.040801	12.566	-0.0079123	-1.1343	4.9419E-6
	-24.00000	15.00000	13.00000	-0.060705	12.566	-0.0092778	-1.2413	5.3913E-6
	-23.00000	15.00000	13.00000	-0.084479	12.566	-0.010940	-1.3624	5.8966E-6
	-22.00000	15.00000	13.00000	-0.11285	12.566	-0.012977	-1.5000	6.4668E-6
	-21.00000	15.00000	13.00000	-0.14668	12.566	-0.015493	-1.6571	7.1126E-6
	-20.00000	15.00000	13.00000	-0.18703	12.566	-0.019622	-1.8373	7.8465E-6
	-19.00000	15.00000	13.00000	-0.23513	12.566	-0.022567	-2.0451	8.6839E-6
	-18.00000	15.00000	13.00000	-0.29253	12.566	-0.027566	-2.2860	9.6431E-6
	-17.00000	15.00000	13.00000	-0.36105	12.566	-0.033981	-2.5671	10.746E-6
	-16.00000	15.00000	13.00000	-0.44293	12.566	-0.042309	-2.8972	12.020E-6
	-15.00000	15.00000	13.00000	-0.54092	12.566	-0.053265	-3.2876	13.496E-6
	-14.00000	15.00000	13.00000	-0.65835	12.566	-0.067892	-3.7532	15.214E-6
	-13.00000	15.00000	13.00000	-0.79938	12.566	-0.087745	-4.3134	17.220E-6
	-12.00000	15.00000	13.00000	-0.96914	12.566	-0.11520	-4.9940	19.566E-6
	-11.00000	15.00000	13.00000	-1.1740	12.566	-0.15399	-5.8304	22.311E-6
	-10.00000	15.00000	13.00000	-1.4221	12.566	-0.21019	-6.8715	25.511E-6
	-9.00000	15.00000	13.00000	-1.7237	12.566	-0.29399	-8.1858	29.202E-6
	-8.00000	15.00000	13.00000	-2.0920	12.566	-0.42336	-9.8745	33.351E-6
	-7.00000	15.00000						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	30.00000	15.00000	13.00000	-19.924	12.566	-90.184	-0.0015003
	31.00000	15.00000	13.00000	-18.883	12.566	-90.096	-0.0015124
	32.00000	15.00000	13.00000	-17.506	12.566	-89.929	-0.0015323
	33.00000	15.00000	13.00000	-15.567	12.566	-88.819	-0.0015653
	34.00000	15.00000	13.00000	-11.948	12.566	-45.067	-0.0015653
	35.00000	15.00000	13.00000	-8.3321	12.566	-1.3200	-0.0015653
	36.00000	15.00000	13.00000	-6.4030	12.566	-0.22601	-0.0015653
	37.00000	15.00000	13.00000	-5.0422	12.566	-0.089567	-0.0015653
	38.00000	15.00000	13.00000	-4.0234	12.566	-0.050913	-0.0015653
	39.00000	15.00000	13.00000	-3.2373	12.566	-0.034331	-0.0015653
	40.00000	15.00000	13.00000	-2.6194	12.566	-0.025277	-0.0015653
	41.00000	15.00000	13.00000	-2.1277	12.566	-0.019560	-0.0015653
	42.00000	15.00000	13.00000	-1.7327	12.566	-0.015611	-0.0015653
	43.00000	15.00000	13.00000	-1.4132	12.566	-0.012722	-0.0015653
	44.00000	15.00000	13.00000	-1.1534	12.566	-0.010526	-0.0015653
	45.00000	15.00000	13.00000	-0.94100	12.566	-0.008118	-0.0015653
	46.00000	15.00000	13.00000	-0.76680	12.566	-0.0074462	-0.0015653
	47.00000	15.00000	13.00000	-0.62347	12.566	-0.0063419	-0.0015653
	48.00000	15.00000	13.00000	-0.50523	12.566	-0.0054380	-0.0015653
	49.00000	15.00000	13.00000	-0.40748	12.566	-0.0046907	-0.0015653
	50.00000	15.00000	13.00000	-0.32664	12.566	-0.0040676	-0.0015653
	51.00000	15.00000	13.00000	-0.25944	12.566	-0.0035442	-0.0015653
	52.00000	15.00000	13.00000	-0.20375	12.566	-0.0031016	-0.0015653
	53.00000	15.00000	13.00000	-0.15751	12.566	-0.0027252	-0.0015653
	54.00000	15.00000	13.00000	-0.11911	12.566	-0.0024035	-0.0015653
	55.00000	15.00000	13.00000	-0.087232	12.566	-0.0021271	-0.0015653
	-25.00000	16.00000	13.00000	-0.039773	12.566	-0.0078445	-0.0015653
	-24.00000	16.00000	13.00000	-0.059454	12.566	-0.0091950	-0.0015653
	-23.00000	16.00000	13.00000	-0.082959	12.566	-0.010838	-0.0015653
	-22.00000	16.00000	13.00000	-0.11100	12.566	-0.012852	-0.0015653
	-21.00000	16.00000	13.00000	-0.14444	12.566	-0.015338	-0.0015653
	-20.00000	16.00000	13.00000	-0.18431	12.566	-0.018434	-0.0015653
	-19.00000	16.00000	13.00000	-0.23185	12.566	-0.022324	-0.0015653
	-18.00000	16.00000	13.00000	-0.28855	12.566	-0.027261	-0.0015653
	-17.00000	16.00000	13.00000	-0.35623	12.566	-0.033594	-0.0015653
	-16.00000	16.00000	13.00000	-0.43710	12.566	-0.041816	-0.0015653
	-15.00000	16.00000	13.00000	-0.53386	12.566	-0.052634	-0.0015653
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	-8.00000	17.00000	13.00000	-2.0295	12.566	-0.41358	-0.



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	-2.00000	17.00000	13.00000	-7.1119	12.566	-11.073	-46.184	-92.095E-6
	-1.00000	17.00000	13.00000	-9.0061	12.566	-23.568	-65.897	-343.36E-6
	0.00000	17.00000	13.00000	-11.315	12.566	-44.780	-91.893	-803.88E-6
	1.00000	17.00000	13.00000	-13.623	12.566	-65.991	-117.86	-0.0012645
	2.00000	17.00000	13.00000	-15.511	12.566	-78.483	-137.50	-0.0015160
	3.00000	17.00000	13.00000	-16.947	12.566	-84.189	-150.48	-0.0016127
	4.00000	17.00000	13.00000	-18.040	12.566	-86.734	-158.87	-0.0016440
	5.00000	17.00000	13.00000	-18.882	12.566	-87.941	-164.40	-0.0016518
	6.00000	17.00000	13.00000	-19.539	12.566	-88.556	-168.11	-0.0016517
	7.00000	17.00000	13.00000	-20.054	12.566	-88.885	-170.61	-0.0016493
	8.00000	17.00000	13.00000	-20.456	12.566	-89.064	-172.26	-0.0016467
	9.00000	17.00000	13.00000	-20.769	12.566	-89.154	-173.25	-0.0016446
	10.00000	17.00000	13.00000	-21.008	12.566	-89.182	-173.70	-0.0016433
	11.00000	17.00000	13.00000	-21.185	12.566	-89.155	-173.66	-0.0016428
	12.00000	17.00000	13.00000	-21.307	12.566	-89.066	-173.12	-0.0016428
	13.00000	17.00000	13.00000	-21.381	12.566	-88.889	-172.00	-0.0016431
	14.00000	17.00000	13.00000	-21.410	12.566	-88.562	-170.18	-0.0016424
	15.00000	17.00000	13.00000	-21.396	12.566	-87.953	-167.39	-0.0016385
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	17.00000	17.00000	13.00000	-21.239	12.566	-84.244	-157.20	-0.0015837
	18.00000	17.00000	13.00000	-21.114	12.566	-78.667	-148.90	-0.0014692
	19.00000	17.00000	13.00000	-21.081	12.566	-67.257	-142.57	-0.0011867
	20.00000	17.00000	13.00000	-22.290	12.566	-89.778	-196.27	-0.0015570
	21.00000	17.00000	13.00000	-23.472	12.566	-112.30	-249.92	-0.0019274
	22.00000	17.00000	13.00000	-23.357	12.566	-100.89	-243.45	-0.0016455
	23.00000	17.00000	13.00000	-23.092	12.566	-95.303	-234.90	-0.0015326
	24.00000	17.00000	13.00000	-22.787	12.566	-92.784	-228.48	-0.0014925
	25.00000	17.00000	13.00000	-22.450	12.566	-91.578	-223.84	-0.0014807
	26.00000	17.00000	13.00000	-22.070	12.566	-90.955	-220.38	-0.0014794
	27.00000	17.00000	13.00000	-21.628	12.566	-90.608	-217.66	-0.0014824
	28.00000	17.00000	13.00000	-21.101	12.566	-90.400	-215.34	-0.0014872
	29.00000	17.00000	13.00000	-20.460	12.566	-90.270	-213.14	-0.0014937
	30.00000	17.00000	13.00000	-19.660	12.566	-90.177	-210.75	-0.0015020
	31.00000	17.00000	13.00000	-18.637	12.566	-90.091	-207.61	-0.0015139
	32.00000	17.00000	13.00000	-17.280	12.566	-89.925	-202.27	-0.0015337
	33.00000	17.00000	13.00000	-15.262	12.566	-88.816	-188.40	-0.0015666
	34.00000	17.00000	13.00000	-11.764	12.566	-45.064	-108.24	-737.29E-6
	35.00000	17.00000	13.00000	-8.1693	12.566	-1.3181	-28.159	92.080E-6
	36.00000	17.00000	13.00000	-6.2607	12.566	-0.22456	-14.516	59.880E-6
	37.00000	17.00000	13.00000	-4.9191	12.566	-0.088421	-9.5632	41.074E-6
	38.00000	17.00000	13.00000	-3.9181	12.566	-0.050011	-7.0100	30.513E-6
	39.00000	17.00000	13.00000	-3.1479	12.566	-0.033619	-5.4523	23.875E-6
	40.00000	17.00000	13.00000	-2.5441	12.566	-0.024714	-4.4031	19.348E-6
	41.00000	17.00000	13.00000	-2.0647	12.566	-0.019113	-3.6500	16.076E-6
	42.00000	17.00000	13.00000	-1.6803	12.566	-0.015254	-3.0848	13.611E-6
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	44.00000	17.00000	13.00000	-1.1174	12.566	-0.010296	-2.2976	10.167E-6
	45.00000	17.00000	13.00000	-0.91132	12.566	-0.0086248	-2.0144	8.9246E-6
	46.00000	17.00000	13.00000	-0.74237	12.566	-0.0072939	-1.7807	7.8983E-6
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	23.00000	18.00000	13.00000	-22.808	12.566	-95.270	-234.22	-0.0015342
	24.00000	18.00000	13.00000	-22.510	12.566	-92.758	-227.87	-0.0014946
	25.00000	18.00000	13.00000	-22.181	12.566	-91.559	-223.29	-0.0014827
	26.00000	18.00000	13.00000	-21.808	12.566	-90.940	-219.88	-0.0014813
	27.00000	18.00000	13.00000	-21.376	12.566	-90.597	-217.20	-0.0014841
	28.00000	18.00000	13.00000	-20.860	12.566	-90.393	-214.92	-0.0014889
	29.00000	18.00000	13.00000	-20.231	12.566	-90.264	-212.77	-0.0014952
	30.00000	18.000						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
47.00000	18.00000	13.00000	-0.58848	12.566	-0.0061249	-1.5649	6.9488E-6
48.00000	18.00000	13.00000	-0.47652	12.566	-0.0052595	-1.4026	6.2344E-6
49.00000	18.00000	13.00000	-0.38395	12.566	-0.0045431	-1.2638	5.6229E-6
50.00000	18.00000	13.00000	-0.30726	12.566	-0.0039448	-1.1441	5.0951E-6
51.00000	18.00000	13.00000	-0.24365	12.566	-0.0034416	-1.0402	4.6360E-6
52.00000	18.00000	13.00000	-0.19083	12.566	-0.0030155	-0.94923	4.2341E-6
53.00000	18.00000	13.00000	-0.14695	12.566	-0.0026527	-0.86922	3.8802E-6
54.00000	18.00000	13.00000	-0.11049	12.566	-0.0023421	-0.79845	3.5668E-6
55.00000	18.00000	13.00000	-0.080194	12.566	-0.0020749	-0.73555	3.2881E-6
-25.00000	19.00000	13.00000	-0.034391	12.566	-0.0074881	-1.0961	4.7798E-6
-24.00000	19.00000	13.00000	-0.052903	12.566	-0.0087598	-1.1974	5.2060E-6
-23.00000	19.00000	13.00000	-0.074996	12.566	-0.010304	-1.3119	5.6844E-6
-22.00000	19.00000	13.00000	-0.10133	12.566	-0.012193	-1.4417	6.2229E-6
-21.00000	19.00000	13.00000	-0.13271	12.566	-0.014520	-1.5894	6.8314E-6
-20.00000	19.00000	13.00000	-0.17009	12.566	-0.017413	-1.7585	7.5214E-6
-19.00000	19.00000	13.00000	-0.21460	12.566	-0.021042	-1.9530	8.3068E-6
-18.00000	19.00000	13.00000	-0.26765	12.566	-0.025641	-2.1780	9.2042E-6
-17.00000	19.00000	13.00000	-0.33090	12.566	-0.031534	-2.4398	10.234E-6
-16.00000	19.00000	13.00000	-0.40640	12.566	-0.039178	-2.7465	11.420E-6
-15.00000	19.00000	13.00000	-0.49665	12.566	-0.049233	-3.1086	12.792E-6
-14.00000	19.00000	13.00000	-0.60473	12.566	-0.062666	-3.5296	14.386E-6
-13.00000	19.00000	13.00000	-0.73442	12.566	-0.080925	-4.0574	16.242E-6
-12.00000	19.00000	13.00000	-0.89047	12.566	-0.10624	-4.6862	18.410E-6
-11.00000	19.00000	13.00000	-1.0788	12.566	-0.14216	-5.4587	20.943E-6
-10.00000	19.00000	13.00000	-1.3070	12.566	-0.19446	-6.4210	23.892E-6
-9.00000	19.00000	13.00000	-1.5847	12.566	-0.27298	-7.389	27.287E-6
-8.00000	19.00000	13.00000	-1.9245	12.566	-0.39519	-9.2085	31.091E-6
-7.00000	19.00000	13.00000	-2.3430	12.566	-0.59365	-11.276	35.078E-6
-6.00000	19.00000	13.00000	-2.8625	12.566	-0.93272	-14.069	38.529E-6
-5.00000	19.00000	13.00000	-3.5141	12.566	-1.5483	-17.958	39.418E-6
-4.00000	19.00000	13.00000	-4.3408	12.566	-2.7480	-23.566	32.152E-6
-3.00000	19.00000	13.00000	-5.4104	12.566	-5.2797	-31.940	1.1921E-6
-2.00000	19.00000	13.00000	-6.8141	12.566	-10.965	-44.817	-95.365E-6
-1.00000	19.00000	13.00000	-8.6626	12.566	-23.431	-64.284	-346.96E-6
0.00000	19.00000	13.00000	-10.925	12.566	-44.612	-90.023	-807.80E-6
1.00000	19.00000	13.00000	-13.185	12.566	-65.792	-115.74	-0.00125E-6
2.00000	19.00000	13.00000	-15.027	12.566	-78.255	-135.14	-0.001520E-6
3.00000	19.00000	13.00000	-16.421	12.566	-83.936	-147.89	-0.001617E-6
4.00000	19.00000	13.00000	-17.476	12.566	-86.461	-156.10	-0.0016491
5.00000	19.00000	13.00000	-18.285	12.566	-87.653	-161.47	-0.0016572
6.00000	19.00000	13.00000	-18.913	12.566	-88.250	-165.50	-0.0016574
7.00000	19.00000	13.00000	-19.404	12.566	-88.577	-167.46	-0.0016552
8.00000	19.00000	13.00000	-19.787	12.566	-88.751	-169.03	-0.0016528
9.00000	19.00000	13.00000	-20.084	12.566	-88.838	-169.98	-0.0016509
10.00000	19.00000	13.00000	-20.310	12.566	-88.865	-170.41	-0.0016496
11.00000	19.00000	13.00000	-20.477	12.566	-88.839	-170.77	-0.0016487
12.00000	19.00000	13.00000	-20.593	12.566	-88.753	-169.85	-0.0016491
13.00000	19.00000	13.00000	-20.663	12.566	-88.581	-168.78	-0.0016493
14.00000	19.00000	13.00000	-20.690	12.566	-88.262	-167.02	-0.0016486
15.00000	19.00000	13.00000	-20.675	12.566	-87.664	-164.34	-0.0016445
16.00000	19.00000	13.00000	-20.620	12.566	-86.480	-160.00	-0.0016306
17.00000	19.00000	13.00000	-20.525	12.566	-83.991	-154.41	-0.0015894
18.00000	19.00000	13.00000	-20.406	12.566	-78.438	-146.29	-0.0014748
19.00000	19.00000	13.00000	-20.380	12.566	-67.057	-140.15	-0.0011923
20.00000	19.00000	13.00000	-21.598	12.566	-89.609	-194.05	-0.0015624
21.00000	19.00000	13.00000	-22.790	12.566	-112.116	-247.91	-0.0019326
22.00000	19.00000	13.00000	-22.687	12.566	-100.78	-241.64	-0.0016507
23.00000	19.00000	13.00000	-22.435	12.566	-95.219	-233.28	-0.0015371
24.00000	19.00000	13.00000	-22.145	12.566	-92.720	-227.03	-0.0014974
25.00000	19.00000	13.00000	-21.825	12.566	-91.530	-222.53	-0.0014854
26.00000	19.00000	13.00000	-21.463	12.566	-90.919	-219.86	-0.0014830
27.00000	19.00000	13.00000	-21.043	12.566	-90.581	-216.59	-0.0014865
28.00000	19.00000	13.00000	-20.541	12.566	-90.381	-214.36	-0.0014912
29.00000	19.00000	13.00000	-19.928	12.566	-90.255	-212.26	-0.0014973
30.00000	19.00000	13.00000	-19.160	12.566	-90.166	-209.96	-0.0015053
31.00000	19.00000	13.00000	-18.173	12.566	-90.081	-206.90	-0.0015161
32.00000	19.00000	13.00000	-16.854	12.566	-89.918	-201.63	-0.0015364
33.00000	19.00000	13.00000	-14.978	12.566	-88.810	-187.84	-0.0015689
34.00000	19.00000	13.00000	-11.423	12.566	-45.060	-107.76	-739.38E-6
35.00000	19.00000	13.00000	-7.8701	12.566	-1.3147	-27.745	90.292E-6
36.00000	19.00000	13.00000	-6.0023	12.566	-0.22190	-14.168	58.370E-6
37.00000	19.00000	13.00000	-4.6988	12.566	-0.086362	-9.2733	39.812E-6
38.00000	19.00000	13.00000	-3.7321	12.566	-0.048417	-6.7708	29.467E-6
39.00000	19.00000	13.00000	-2.9922	12.566	-0.032382	-5.2550	23.012E-6
40.00000	19.00000	13.00000	-2.4146	12.566	-0.023750	-4.2409	18.636E-6
41.00000	19.00000	13.00000	-1.9575	12.566	-0.018357	-3.161	15.489E-6
42.00000	19.00000	13.00000	-1.5918	12.566	-0.014657	-2.9746	13.126E-6
43.00000	19.00000	13.00000	-1.2970	12.566	-0.011961	-2.5551	11.292E-6
44.00000	19.00000	13.00000	-1.0576	12.566	-0.0099154	-2.2216	9.8317E-6
45.00000	19.00000	13.00000	-0.86232	12.566	-0.0083181	-1.9509	8.6443E-6
46.00000	19.00000	13.00000	-0.70221	12.566	-0.0070449	-1.7271	7.6626E-6
47.00000	19.00000	13.00000	-0.57049	12.566	-0.0060137	-1.5402	6.8397E-6
48.00000	19.00000	13.00000	-0.46180	12.566	-0.0051681	-1.3817	6.1418E-6
49.00000	19.00000	13.00000	-0.37191	12.566	-0.0044675	-1.2460	5.5440E-6
50.00000	19.00000	13.00000	-0.29742	12.566	-0.0038820	-1.1289	5.0274E-6
51.00000	19.00000	13.00000	-0.23560	12.566	-0.0033991	-1.0270	4.5778E-6
52.00000	19.00000	13.00000	-0.18425	12.566	-0.0029715	-0.93789	4.1837E-6
53.00000	19.00000	13.00000	-0.14158	12.566	-0.0026156	-0.85938	3.8364E-6
54.00000	19.00000	13.00000	-0.10610	12.566	-0.0023106	-0.78988	3.5287E-6
55.00000	19.00000	13.00000	-0.076619	12.566	-0.0020482	-0.72805	3.2547E-6
-25.00000	20.00000	13.00000	-0.031899	12.566	-0.0073223	-1.0819	4.7160E-6
-24.00000	20.00000	13.00000	-0.049868	12.566	-0.0085575	-1.1802	5.1332E-6
-23.00000	20.00000	13.00000	-0.071307	12.566	-0.010056	-1.2921	5.6010E-6
-22.00000	20.00000	13.00000	-0.096854	12.566	-0.011886	-1.4188	6.1272E-6
-21.00000	20.00000	13.00000	-0.12728	12.566	-0.014139	-1.5629	6.7211E-6
-20.00000	20.00000	13.00000	-0.16349	12.566	-0.018357	-1.7270	7.3939E-6
-19.00000	20.00000	13.00000	-0.20660	12.566	-0.024043	-1.9169	8.1589E-6
-18.00000	20.00000	13.00000	-0.25794	12.566	-0.024881	-2.1356	9.0321E-6
-17.00000	20.00000	13.00000	-0.31912	12.566	-0.030564	-2.3898	10.033E-6
-16.00000	20.00000	13.00000	-0.39211	12.566	-0.037929	-2.6872	11.185E-6
-15.00000	20.00000	13.00000	-0.47930	12.566	-0.047610	-3.0380	12.516E-6
-14.00000	20.00000	13.00000	-0.58364	12.566	-0.060541	-3.4551	14.059E-6
-13.00000	20.00000	13.00000	-0.70879	12.566	-0.078115	-3.9557	15.856E-6
-12.00000	20.00000	13.00000	-0.85929	12.566	-0.10249	-4.5630	17.953E-6
-11.00000	20.00000	13.00000	-1.0409	12.566	-0.13709	-5.3088	20.400E-6
-10.00000	20.00000	13.00000	-1.2608	12.566	-0.18144	-6.2374	23.246E-6
-9.00000	20.00000	13.00000	-1.5285	12.566	-0.26343	-7.4127	26.520E-6
-8.00000	20.00000	13.00000	-1.8560	12.566	-0.38187	-8.9286	30.182E-6
-7.00000	20.00000	13.00000	-2.2596	12.566	-0.57489	-10.928	34.006E-6
-6.00000	20.00000	13.00000	-2.7613	12.566	-0.90609	-13.634	37.277E-6
-5.00000	20.00000	13.00000	-3.3915	12.566	-1.5100	-17.415	37.977E-6
-4.00000	20.00000	13.00000	-4.1939	12.566	-2.6948	-22.882	30.528E-6
-3.00000	20.00000	13.00000	-5.2333	12.566	-5.2039	-31.093	0.0
-2.00000	20.00000	13.00000	-6.6041	12.566	-10.860	-43.774	-97.259E-6
-1.00000	20.00000	13.00000	-8.4166	12.566	-23.292	-63.020	-348.91E-6
0.00000	20.00000	13.00000	-10.641	12.566	-44.434	-88.524	-809.78E-6
1.00000	20.00000	13.00000	-12.864	12.566	-65.576	-114.01</	

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X	Y	Z[Level]	Z	Calc Level	Vert Stress	Sum Princ	Vert Strain
[m]	[m]	[mOD]	[mm]	[MOD]	[kN/m²]	[kN/m²]	[-]
15.00000	20.00000	13.00000	-20.148	12.566	-87.348	-161.81	-0.0016473
16.00000	20.00000	13.00000	-20.095	12.566	-86.183	-157.90	-0.0016334
17.00000	20.00000	13.00000	-20.002	12.566	-83.712	-152.12	-0.0015922
18.00000	20.00000	13.00000	-19.887	12.566	-78.187	-144.14	-0.0014778
19.00000	20.00000	13.00000	-19.867	12.566	-66.840	-138.17	-0.0011953
20.00000	20.00000	13.00000	-21.091	12.566	-89.430	-192.26	-0.0015617
21.00000	20.00000	13.00000	-22.291	12.566	-112.02	-246.31	-0.0019362
22.00000	20.00000	13.00000	-22.195	12.566	-100.67	-240.21	-0.0016543
23.00000	20.00000	13.00000	-21.952	12.566	-95.141	-232.01	-0.0015408
24.00000	20.00000	13.00000	-21.672	12.566	-92.664	-225.89	-0.0015010
25.00000	20.00000	13.00000	-21.364	12.566	-91.490	-221.51	-0.0014889
26.00000	20.00000	13.00000	-21.015	12.566	-90.890	-218.28	-0.0014872
27.00000	20.00000	13.00000	-20.610	12.566	-90.560	-215.75	-0.0014897
28.00000	20.00000	13.00000	-20.126	12.566	-90.366	-213.60	-0.0014942
29.00000	20.00000	13.00000	-19.532	12.566	-90.243	-211.56	-0.0015001
30.00000	20.00000	13.00000	-18.788	12.566	-90.156	-209.32	-0.0015086
31.00000	20.00000	13.00000	-17.827	12.566	-90.074	-206.32	-0.0015193
32.00000	20.00000	13.00000	-16.539	12.566	-89.912	-201.12	-0.0015386
33.00000	20.00000	13.00000	-14.695	12.566	-88.805	-187.40	-0.0015708
34.00000	20.00000	13.00000	-11.174	12.566	-45.056	-107.38	-741.02E-6
35.00000	20.00000	13.00000	-7.6549	12.566	-1.3121	-27.426	88.915E-6
36.00000	20.00000	13.00000	-5.8193	12.566	-0.21991	-13.907	57.236E-6
37.00000	20.00000	13.00000	-4.5452	12.566	-0.084873	-9.0619	38.891E-6
38.00000	20.00000	13.00000	-3.6045	12.566	-0.047298	-6.6006	28.724E-6
39.00000	20.00000	13.00000	-2.8869	12.566	-0.031536	-5.1183	22.414E-6
40.00000	20.00000	13.00000	-2.3282	12.566	-0.023104	-4.1307	18.153E-6
41.00000	20.00000	13.00000	-1.8867	12.566	-0.017859	-3.4273	15.098E-6
42.00000	20.00000	13.00000	-1.5340	12.566	-0.014269	-2.9020	12.807E-6
43.00000	20.00000	13.00000	-1.2498	12.566	-0.011655	-2.4956	11.030E-6
44.00000	20.00000	13.00000	-1.0191	12.566	-0.0096717	-2.1725	9.6149E-6
45.00000	20.00000	13.00000	-0.83091	12.566	-0.0081224	-1.9101	8.4640E-6
46.00000	20.00000	13.00000	-0.67658	12.566	-0.0068864	-1.6932	7.5117E-6
47.00000	20.00000	13.00000	-0.54957	12.566	-0.0058844	-1.5115	6.7126E-6
48.00000	20.00000	13.00000	-0.44472	12.566	-0.0050619	-1.3573	6.0341E-6
49.00000	20.00000	13.00000	-0.35796	12.566	-0.0043798	-1.2253	5.4522E-6
50.00000	20.00000	13.00000	-0.28602	12.566	-0.0038091	-1.1112	4.9488E-6
51.00000	20.00000	13.00000	-0.22629	12.566	-0.0033283	-1.0118	4.5101E-6
52.00000	20.00000	13.00000	-0.17665	12.566	-0.0029204	-0.92471	4.1252E-6
53.00000	20.00000	13.00000	-0.13537	12.566	-0.0025725	-0.84794	3.7856E-6
54.00000	20.00000	13.00000	-0.10104	12.566	-0.0022741	-0.77991	3.4844E-6
55.00000	20.00000	13.00000	-0.072492	12.566	-0.0020171	-0.71933	3.2159E-6
-25.00000	21.00000	13.00000	-0.029101	12.566	-0.0071357	-1.0640	4.6438E-6
-24.00000	21.00000	13.00000	-0.046463	12.566	-0.0083297	-1.1607	5.0508E-6
-23.00000	21.00000	13.00000	-0.067166	12.566	-0.0097761	-1.2697	5.5067E-6
-22.00000	21.00000	13.00000	-0.091825	12.566	-0.011541	-1.3929	6.0190E-6
-21.00000	21.00000	13.00000	-0.121117	12.566	-0.013717	-1.5329	6.5965E-6
-20.00000	21.00000	13.00000	-0.15608	12.566	-0.016401	-1.6928	7.2499E-6
-19.00000	21.00000	13.00000	-0.19761	12.566	-0.019767	-1.8762	7.9920E-6
-18.00000	21.00000	13.00000	-0.24703	12.566	-0.024023	-2.0877	8.8380E-6
-17.00000	21.00000	13.00000	-0.30588	12.566	-0.029465	-2.3333	9.8062E-6
-16.00000	21.00000	13.00000	-0.37603	12.566	-0.036511	-2.6203	10.919E-6
-15.00000	21.00000	13.00000	-0.45975	12.566	-0.045764	-2.9582	12.203E-6
-14.00000	21.00000	13.00000	-0.55986	12.566	-0.058107	-3.3594	13.691E-6
-13.00000	21.00000	13.00000	-0.67983	12.566	-0.074873	-3.8403	15.420E-6
-12.00000	21.00000	13.00000	-0.82399	12.566	-0.098118	-4.4229	17.435E-6
-11.00000	21.00000	13.00000	-0.97778	12.566	-0.13112	-5.1375	19.784E-6
-10.00000	21.00000	13.00000	-1.2082	12.566	-0.17927	-6.0265	22.513E-6
-9.00000	21.00000	13.00000	-1.4640	12.566	-0.25181	-7.1510	25.647E-6
-8.00000	21.00000	13.00000	-1.7771	12.566	-0.36527	-8.6012	29.146E-6
-7.00000	21.00000	13.00000	-2.1629	12.566	-0.55080	-10.515	32.787E-6
-6.00000	21.00000	13.00000	-2.6427	12.566	-0.87066	-13.111	35.864E-6
-5.00000	21.00000	13.00000	-3.2463	12.566	-1.4576	-16.746	36.377E-6
-4.00000	21.00000	13.00000	-4.0167	12.566	-2.6159	-22.026	28.788E-6
-3.00000	21.00000	13.00000	-5.0178	12.566	-5.0865	-30.000	-2.3628E-6
-2.00000	21.00000	13.00000	-6.3446	12.566	-10.689	-42.388	-98.897E-6
-1.00000	21.00000	13.00000	-8.1081	12.566	-23.052	-61.293	-350.22E-6
0.00000	21.00000	13.00000	-10.281	12.566	-44.116	-86.427	-810.62E-6
1.00000	21.00000	13.00000	-12.451	12.566	-65.178	-111.54	-0.0012711
2.00000	21.00000	13.00000	-14.210	12.566	-77.539	-130.38	-0.0015227
3.00000	21.00000	13.00000	-15.527	12.566	-83.138	-142.66	-0.0016196
4.00000	21.00000	13.00000	-16.515	12.566	-85.603	-150.47	-0.0016513
5.00000	21.00000	13.00000	-17.268	12.566	-86.753	-155.53	-0.0016597
6.00000	21.00000	13.00000	-17.850	12.566	-87.329	-158.88	-0.0016601
7.00000	21.00000	13.00000	-18.303	12.566	-87.632	-161.12	-0.0016583
8.00000	21.00000	13.00000	-18.655	12.566	-87.795	-162.58	-0.0016561
9.00000	21.00000	13.00000	-18.929	12.566	-87.876	-163.46	-0.0016543
10.00000	21.00000	13.00000	-19.137	12.566	-87.901	-163.85	-0.0016531
11.00000	21.00000	13.00000	-19.291	12.566	-87.877	-163.82	-0.0016527
12.00000	21.00000	13.00000	-19.397	12.566	-87.797	-163.34	-0.0016527
13.00000	21.00000	13.00000	-19.461	12.566	-87.635	-162.35	-0.0016528
14.00000	21.00000	13.00000	-19.486	12.566	-87.334	-160.71	-0.0016520
15.00000	21.00000	13.00000	-19.473	12.566	-86.764	-158.20	-0.0016478
16.00000	21.00000	13.00000	-19.421	12.566	-85.625	-154.42	-0.0016339
17.00000	21.00000	13.00000	-19.333	12.566	-83.191	-148.82	-0.0015930
18.00000	21.00000	13.00000	-19.223	12.566	-77.719	-141.07	-0.0014790
19.00000	21.00000	13.00000	-19.209	12.566	-66.441	-135.36	-0.0013976
20.00000	21.00000	13.00000	-20.441	12.566	-89.109	-189.73	-0.0015684
21.00000	21.00000	13.00000	-21.650	12.566	-111.78	-244.06	-0.0019398
22.00000	21.00000	13.00000	-21.565	12.566	-100.50	-238.23	-0.0016586
23.00000	21.00000	13.00000	-21.332	12.566	-95.019	-230.26	-0.0015454
24.00000	21.00000	13.00000	-21.065	12.566	-92.580	-224.34	-0.0015058
25.00000	21.00000	13.00000	-20.770	12.566	-91.433	-220.12	-0.0014937
26.00000	21.00000	13.00000	-20.437	12.566	-90.850	-217.01	-0.0014919
27.00000	21.00000	13.00000	-20.049	12.566	-90.531	-214.58	-0.0014942
28.00000	21.00000	13.00000	-19.586	12.566	-90.344	-212.52	-0.0014985
29.00000	21.00000	13.00000	-19.018	12.566	-90.227	-210.57	-0.0015



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z[Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	-17.00000	22.00000	13.00000	-0.29133	12.566	-0.028251	-2.2710	9.5561E-6
	-16.00000	22.00000	13.00000	-0.35834	12.566	-0.034939	-2.5464	10.626E-6
	-15.00000	22.00000	13.00000	-0.43824	12.566	-0.043706	-2.8701	11.858E-6
	-14.00000	22.00000	13.00000	-0.53366	12.566	-0.055384	-3.2536	13.284E-6
	-13.00000	22.00000	13.00000	-0.64787	12.566	-0.071222	-3.7124	14.938E-6
	-12.00000	22.00000	13.00000	-0.78494	12.566	-0.093154	-4.2671	16.862E-6
	-11.00000	22.00000	13.00000	-0.94999	12.566	-0.12426	-4.9462	19.101E-6
	-10.00000	22.00000	13.00000	-1.1495	12.566	-0.16963	-5.7897	21.699E-6
	-9.00000	22.00000	13.00000	-1.3920	12.566	-0.23800	-6.8549	24.677E-6
	-8.00000	22.00000	13.00000	-1.6883	12.566	-0.34506	-8.2272	27.997E-6
	-7.00000	22.00000	13.00000	-2.0533	12.566	-0.52056	-10.037	31.440E-6
	-6.00000	22.00000	13.00000	-2.5071	12.566	-0.82433	-12.494	34.321E-6
	-5.00000	22.00000	13.00000	-3.0782	12.566	-1.3851	-15.940	34.690E-6
	-4.00000	22.00000	13.00000	-3.8081	12.566	-2.5006	-20.964	27.106E-6
	-3.00000	22.00000	13.00000	-4.7598	12.566	-4.9022	-28.595	-3.7229E-6
	-2.00000	22.00000	13.00000	-6.0273	12.566	-10.399	-40.538	-99.395E-6
	-1.00000	22.00000	13.00000	-7.7227	12.566	-22.614	-58.898	-349.17E-6
	0.00000	22.00000	13.00000	-9.8220	12.566	-43.501	-83.424	-807.50E-6
	1.00000	22.00000	13.00000	-11.919	12.566	-64.387	-107.93	-0.0012659
	2.00000	22.00000	13.00000	-13.610	12.566	-76.600	-126.23	-0.0015159
	3.00000	22.00000	13.00000	-14.869	12.566	-82.099	-138.06	-0.0016120
	4.00000	22.00000	13.00000	-15.808	12.566	-84.490	-145.54	-0.0016434
	5.00000	22.00000	13.00000	-16.521	12.566	-85.597	-150.36	-0.0016517
	6.00000	22.00000	13.00000	-17.071	12.566	-86.147	-153.53	-0.0016522
	7.00000	22.00000	13.00000	-17.499	12.566	-86.436	-155.65	-0.0016505
	8.00000	22.00000	13.00000	-17.832	12.566	-86.590	-157.02	-0.0016489
	9.00000	22.00000	13.00000	-18.091	12.566	-86.666	-157.85	-0.0016468
	10.00000	22.00000	13.00000	-18.288	12.566	-86.690	-158.23	-0.0016457
	11.00000	22.00000	13.00000	-18.433	12.566	-86.667	-158.19	-0.0016452
	12.00000	22.00000	13.00000	-18.534	12.566	-86.592	-157.74	-0.0016452
	13.00000	22.00000	13.00000	-18.595	12.566	-86.439	-156.83	-0.0016453
	14.00000	22.00000	13.00000	-18.618	12.566	-86.153	-155.26	-0.0016445
	15.00000	22.00000	13.00000	-18.606	12.566	-85.607	-152.89	-0.0016405
	16.00000	22.00000	13.00000	-18.557	12.566	-84.511	-149.30	-0.0016269
	17.00000	22.00000	13.00000	-18.474	12.566	-82.145	-143.95	-0.0015866
	18.00000	22.00000	13.00000	-18.371	12.566	-76.778	-136.53	-0.0014736
	19.00000	22.00000	13.00000	-18.365	12.566	-65.645	-131.23	-0.0011943
	20.00000	22.00000	13.00000	-19.607	12.566	-88.488	-186.05	-0.0015683
	21.00000	22.00000	13.00000	-20.827	12.566	-111.33	-240.83	-0.0019424
	22.00000	22.00000	13.00000	-20.754	12.566	-100.20	-235.41	-0.0016632
	23.00000	22.00000	13.00000	-20.534	12.566	-94.825	-227.78	-0.0015514
	24.00000	22.00000	13.00000	-20.281	12.566	-92.454	-222.13	-0.0015124
	25.00000	22.00000	13.00000	-20.002	12.566	-91.349	-218.12	-0.0015005
	26.00000	22.00000	13.00000	-19.687	12.566	-90.792	-215.18	-0.0014987
	27.00000	22.00000	13.00000	-19.320	12.566	-90.489	-212.88	-0.0015008
	28.00000	22.00000	13.00000	-18.982	12.566	-90.193	-210.93	-0.0015046
	29.00000	22.00000	13.00000	-18.345	12.566	-90.202	-209.08	-0.0015103
	30.00000	22.00000	13.00000	-17.668	12.566	-90.123	-207.02	-0.0015175
	31.00000	22.00000	13.00000	-16.787	12.566	-90.047	-204.23	-0.0015281
	32.00000	22.00000	13.00000	-15.593	12.566	-89.890	-199.25	-0.0015465
	33.00000	22.00000	13.00000	-13.856	12.566	-88.786	-185.79	-0.0015786
	34.00000	22.00000	13.00000	-10.448	12.566	-45.043	-106.05	-746.68E-6
	35.00000	22.00000	13.00000	-7.0434	12.566	-1.3024	-26.374	84.397E-6
	36.00000	22.00000	13.00000	-5.3136	12.566	-0.21321	-13.094	53.726E-6
	37.00000	22.00000	13.00000	-4.1324	12.566	-0.080280	-8.4418	36.196E-6
	38.00000	22.00000	13.00000	-3.2701	12.566	-0.044104	-6.262	26.656E-6
	39.00000	22.00000	13.00000	-2.6170	12.566	-0.029259	-4.7528	20.814E-6
	40.00000	22.00000	13.00000	-2.1105	12.566	-0.021438	-3.8456	16.902E-6
	41.00000	22.00000	13.00000	-1.7112	12.566	-0.016610	-3.2021	14.107E-6
	42.00000	22.00000	13.00000	-1.3923	12.566	-0.013314	-2.7128	12.014E-6
	43.00000	22.00000	13.00000	-1.1352	12.566	-0.010912	-2.4992	10.387E-6
	44.00000	22.00000	13.00000	-0.92631	12.566	-0.0090851	-2.0533	9.0888E-6
	45.00000	22.00000	13.00000	-0.75561	12.566	-0.0076539	-1.8117	8.0292E-6
	46.00000	22.00000	13.00000	-0.61541	12.566	-0.0065084	-1.6113	7.1494E-6
	47.00000	22.00000	13.00000	-0.49982	12.566	-0.0055767	-1.4427	6.4084E-6
	48.00000	22.00000	13.00000	-0.40421	12.566	-0.0048096	-1.2769	5.7768E-6
	49.00000	22.00000	13.00000	-0.32494	12.566	-0.0041713	-1.1759	5.2332E-6
	50.00000	22.00000	13.00000	-0.25910	12.566	-0.0036359	-1.0689	4.7614E-6
	51.00000	22.00000	13.00000	-0.20433	12.566	-0.0031835	-0.97545	4.3488E-6
	52.00000	22.00000	13.00000	-0.15873	12.566	-0.0027988	-0.89330	3.9857E-6
	53.00000	22.00000	13.00000	-0.12075	12.566	-0.0024699	-0.82065	3.6643E-6
	54.00000	22.00000	13.00000	-0.089119	12.566	-0.0021872	-0.75611	3.3785E-6
	55.00000	22.00000	13.00000	-0.062783	12.566	-0.0019431	-0.69849	3.1232E-6
	-25.00000	23.00000	13.00000	-0.022721	12.566	-0.0067079	-1.0247	4.4766E-6
	-24.00000	23.00000	13.00000	-0.038694	12.566	-0.0078079	-1.1157	4.8603E-6
	-23.00000	23.00000	13.00000	-0.057721	12.566	-0.012559	-1.2179	5.2890E-6
	-22.00000	23.00000	13.00000	-0.080352	12.566	-0.010750	-1.3333	5.7693E-6
	-21.00000	23.00000	13.00000	-0.10725	12.566	-0.012728	-1.4639	6.3093E-6
	-20.00000	23.00000	13.00000	-0.13918	12.566	-0.015172	-1.6125	6.9184E-6
	-19.00000	23.00000	13.00000	-0.17711	12.566	-0.018217	-1.7824	7.6079E-6
	-18.00000	23.00000	13.00000	-0.22214	12.566	-0.022054	-1.9774	8.3913E-6
	-17.00000	23.00000	13.00000	-0.27564	12.566	-0.026935	-2.2035	9.2850E-6
	-16.00000	23.00000	13.00000	-0.33927	12.566	-0.033232	-2.4663	10.308E-6
	-15.00000	23.00000	13.00000	-0.41502	12.566	-0.041465	-2.7745	11.485E-6
	-14.00000	23.00000	13.00000	-0.50535	12.566	-0.052405	-3.1387	12.843E-6
	-13.00000	23.00000	13.00000	-0.61330	12.566	-0.067203	-3.5733	14.415E-6
	-12.00000	23.00000	13.00000	-0.74263	12.566	-0.087651	-4.0974	16.240E-6
	-11.00000	23.00000	13.00000	-0.89809	12.566	-0.11658	-4.7372	18.360E-6
	-10.00000	23.00000	13.00000	-1.0857	12.566	-0.15869	-5.5295	20.814E-6
	-9.00000	23.00000	13.00000	-1.3132	12.566	-0.22204	-6.5273	23.623E-6
	-8.00000	23.00000	13.00000	-1.5907	12.566	-0.32111	-7.8094	26.749E-6
	-7.00000	23.00000	13.00000	-1.9318	12.566	-0.48361	-9.4967	29.989E-6
	-6.00000	23.00000	13.00000	-2.3552	12.566	-0.76534	-11.782	32.695E-6
	-5.00000	23.00000	13.00000	-2.8875	12.566	-1.2876	-14.987	33.020E-6
	-4.00000	23.00000	13.00000	-3.5676	12.566	-2.3340	-19.668	25.753E-6
	-3.00000	23.00000	13.00000	-4.4155	12.566	-4.1155	-26.805	-3.9248E-6
	-2.00000	23.00000	13.00000	-5.6429	12.566	-9.8925	-38.059	-96.835E-6
	-1.00000	23.00000	13.00000	-7.2419	12.566	-21.769	-55.516	-341.48E-6
	0.00000	23.00000	13.00000	-9.2336	12.566	-42.217	-78.987	-792.66E-6
	1.00000	23.00000	13.00000	-11.224	12.566	-62.665	-102.44	-0.0012439
	2.00000	23.00000	13.00000	-13.818	12.566	-74.540	-119.85	-0.0014886
	3.00000	23.00000	13.00000	-13.997	12.566	-79.817	-130.99	-0.0015821
	4.00000	23.00000	13.00000	-14.873	12.566	-82.090	-137.98	-0.0016123
	5.00000	23.00000	13.00000	-15.537	12.566	-83.129	-142.46	-0.0016202
	6.00000	23.00000	13.00000	-16.049	12.566	-83.641	-145.41	-0.0016208
	7.00000	23.00000	13.00000	-16.448	12.566	-83.908	-147.37	-0.0016192
	8.00000	23.00000	13.00000	-16.759	12.566	-84.051	-148.65	-0.0016172
	9.00000	23.00000	13.00000	-17.001	12.566	-84.122	-149.42	-0.0016157
	10.00000	23.00000	13.00000	-17.185	12.566	-84.143	-149.77	-0.0016147
	11.00000	23.00000	13.00000	-17.321	12.566	-84.122	-149.74	-0.0016142
	12.00000	23.00000	13.00000	-17.416	12.566	-84.053	-149.33	-0.0016132
	13.00000	23.00000	13.00000	-17.474	12.566	-83.911	-148.46	-0.0016143
	14.00000	23.00000	13.00000	-17.496	12.566	-83.646	-147.03	-0.0016136
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Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
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Drg. Ref.		
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Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
32.00000	23.00000	13.00000	-14.877	12.566	-89.857	-197.31	-0.0015544
33.00000	23.00000	13.00000	-13.229	12.566	-88.761	-184.15	-0.0015843
34.00000	23.00000	13.00000	-9.9209	12.566	-45.024	-104.77	-752.01E-6
35.00000	23.00000	13.00000	-6.6153	12.566	-1.2906	-25.443	80.481E-6
36.00000	23.00000	13.00000	-4.9740	12.566	-0.20655	-12.446	50.958E-6
37.00000	23.00000	13.00000	-3.8656	12.566	-0.076461	-7.9903	34.248E-6
38.00000	23.00000	13.00000	-3.0606	12.566	-0.041784	-5.8057	25.260E-6
39.00000	23.00000	13.00000	-2.4521	12.566	-0.027751	-4.5181	19.788E-6
40.00000	23.00000	13.00000	-1.9801	12.566	-0.020397	-3.6693	16.128E-6
41.00000	23.00000	13.00000	-1.6075	12.566	-0.015858	-3.0664	13.511E-6
42.00000	23.00000	13.00000	-1.3096	12.566	-0.012751	-2.6152	11.544E-6
43.00000	23.00000	13.00000	-1.0689	12.566	-0.010480	-2.2646	10.012E-6
44.00000	23.00000	13.00000	-0.87298	12.566	-0.0087475	-1.9842	8.7840E-6
45.00000	23.00000	13.00000	-0.71257	12.566	-0.0073856	-1.7550	7.7788E-6
46.00000	23.00000	13.00000	-0.58059	12.566	-0.0062925	-1.5643	6.9415E-6
47.00000	23.00000	13.00000	-0.47158	12.566	-0.0054013	-1.4034	6.2342E-6
48.00000	23.00000	13.00000	-0.38127	12.566	-0.0046658	-1.2660	5.6297E-6
49.00000	23.00000	13.00000	-0.30628	12.566	-0.0040526	-1.1477	5.1081E-6
50.00000	23.00000	13.00000	-0.24390	12.566	-0.0035372	-1.0448	4.6543E-6
51.00000	23.00000	13.00000	-0.19194	12.566	-0.0031010	-0.95468	4.2565E-6
52.00000	23.00000	13.00000	-0.14863	12.566	-0.0027294	-0.87533	3.9058E-6
53.00000	23.00000	13.00000	-0.11252	12.566	-0.0024112	-0.80504	3.5949E-6
54.00000	23.00000	13.00000	-0.082406	12.566	-0.0021374	-0.74247	3.3179E-6
55.00000	23.00000	13.00000	-0.057316	12.566	-0.0019007	-0.68653	3.0700E-6
-25.00000	24.00000	13.00000	-0.019210	12.566	-0.0064711	-1.0027	4.3830E-6
-24.00000	24.00000	13.00000	-0.0341419	12.566	-0.0075194	-1.2904	4.7538E-6
-23.00000	24.00000	13.00000	-0.052523	12.566	-0.0087823	-1.1891	5.1674E-6
-22.00000	24.00000	13.00000	-0.074040	12.566	-0.010314	-1.3000	5.6301E-6
-21.00000	24.00000	13.00000	-0.099584	12.566	-0.012187	-1.4254	6.1493E-6
-20.00000	24.00000	13.00000	-0.12989	12.566	-0.014494	-1.5678	6.7339E-6
-19.00000	24.00000	13.00000	-0.16583	12.566	-0.017363	-1.7303	7.3944E-6
-18.00000	24.00000	13.00000	-0.20845	12.566	-0.020963	-1.9166	8.1433E-6
-17.00000	24.00000	13.00000	-0.25901	12.566	-0.025536	-2.1315	8.9957E-6
-16.00000	24.00000	13.00000	-0.31904	12.566	-0.031413	-2.3809	9.9697E-6
-15.00000	24.00000	13.00000	-0.39039	12.566	-0.039073	-2.6726	11.087E-6
-14.00000	24.00000	13.00000	-0.47531	12.566	-0.049214	-3.1612	12.373E-6
-13.00000	24.00000	13.00000	-0.57657	12.566	-0.062883	-3.4249	13.858E-6
-12.00000	24.00000	13.00000	-0.69763	12.566	-0.081692	-3.9159	15.578E-6
-11.00000	24.00000	13.00000	-0.84278	12.566	-0.10820	-4.5131	17.570E-6
-10.00000	24.00000	13.00000	-1.0175	12.566	-0.14661	-5.2495	19.871E-6
-9.00000	24.00000	13.00000	-1.2287	12.566	-0.20414	-6.1729	22.500E-6
-8.00000	24.00000	13.00000	-1.4855	12.566	-0.29376	-7.3536	25.424E-6
-7.00000	24.00000	13.00000	-1.8001	12.566	-0.44011	-8.8996	28.461E-6
-6.00000	24.00000	13.00000	-2.1892	12.566	-0.69313	-10.983	31.033E-6
-5.00000	24.00000	13.00000	-2.6764	12.566	-1.1616	-13.892	31.477E-6
-4.00000	24.00000	13.00000	-3.22967	12.566	-2.1021	-18.124	25.062E-6
-3.00000	24.00000	13.00000	-4.1043	12.566	-4.1634	-24.572	-1.8582E-6
-2.00000	24.00000	13.00000	-5.1838	12.566	-9.0059	-34.768	-87.612E-6
-1.00000	24.00000	13.00000	-6.6427	12.566	-20.074	-50.696	-317.16E-6
0.00000	24.00000	13.00000	-8.4697	12.566	-39.353	-72.257	-745.11E-6
1.00000	24.00000	13.00000	-10.295	12.566	-58.631	-93.799	-0.0017731
2.00000	24.00000	13.00000	-11.749	12.566	-69.698	-109.67	-0.0014029
3.00000	24.00000	13.00000	-12.821	12.566	-74.537	-119.77	-0.0014890
4.00000	24.00000	13.00000	-13.617	12.566	-76.594	-126.08	-0.0015164
5.00000	24.00000	13.00000	-14.223	12.566	-77.527	-130.13	-0.0015235
6.00000	24.00000	13.00000	-14.691	12.566	-77.987	-132.89	-0.0015259
7.00000	24.00000	13.00000	-15.057	12.566	-78.226	-134.57	-0.0015223
8.00000	24.00000	13.00000	-15.343	12.566	-78.354	-135.74	-0.0015205
9.00000	24.00000	13.00000	-15.566	12.566	-78.418	-136.44	-0.0015191
10.00000	24.00000	13.00000	-15.736	12.566	-78.437	-136.76	-0.0015181
11.00000	24.00000	13.00000	-15.863	12.566	-78.419	-136.74	-0.0015176
12.00000	24.00000	13.00000	-15.951	12.566	-78.356	-136.36	-0.0015178
13.00000	24.00000	13.00000	-16.005	12.566	-78.229	-135.57	-0.0015179
14.00000	24.00000	13.00000	-16.026	12.566	-77.991	-134.28	-0.0015173
15.00000	24.00000	13.00000	-16.017	12.566	-77.536	-132.28	-0.0015139
16.00000	24.00000	13.00000	-15.976	12.566	-76.611	-129.27	-0.0015026
17.00000	24.00000	13.00000	-15.905	12.566	-74.582	-124.78	-0.0014674
18.00000	24.00000	13.00000	-15.820	12.566	-69.860	-118.58	-0.0013668
19.00000	24.00000	13.00000	-15.834	12.566	-59.851	-114.82	-0.0011108
20.00000	24.00000	13.00000	-17.096	12.566	-84.260	-171.37	-0.0015197
21.00000	24.00000	13.00000	-18.239	12.566	-108.67	-227.88	-0.0019286
22.00000	24.00000	13.00000	-18.294	12.566	-98.658	-224.02	-0.0016731
23.00000	24.00000	13.00000	-18.107	12.566	-93.933	-217.63	-0.0015732
24.00000	24.00000	13.00000	-17.888	12.566	-91.898	-212.87	-0.0015393
25.00000	24.00000	13.00000	-17.647	12.566	-90.967	-209.49	-0.0015293
26.00000	24.00000	13.00000	-17.375	12.566	-90.502	-207.00	-0.0015179
27.00000	24.00000	13.00000	-17.059	12.566	-90.249	-205.06	-0.0015299
28.00000	24.00000	13.00000	-16.684	12.566	-90.102	-203.40	-0.0015334
29.00000	24.00000	13.00000	-16.226	12.566	-90.009	-201.81	-0.0015381
30.00000	24.00000	13.00000	-15.650	12.566	-89.943	-200.06	-0.0015442
31.00000	24.00000	13.00000	-14.902	12.566	-89.877	-197.66	-0.0015593
32.00000	24.00000	13.00000	-13.882	12.566	-89.734	-193.27	-0.0015694
33.00000	24.00000	13.00000	-12.367	12.566	-88.657	-180.74	-0.0015970
34.00000	24.00000	13.00000	-9.2193	12.566	-44.957	-102.29	-761.43E-6
35.00000	24.00000	13.00000	-6.0738	12.566	-1.2594	-23.891	74.276E-6
36.00000	24.00000	13.00000	-4.5650	12.566	-0.19366	-11.514	47.072E-6
37.00000	24.00000	13.00000	-3.5660	12.566	-0.070666	-7.4081	31.758E-6
38.00000	24.00000	13.00000	-2.8239	12.566	-0.038758	-5.4195	23.586E-6
39.00000	24.00000	13.00000	-2.2691	12.566	-0.025949	-4.2478	18.608E-6
40.00000	24.00000	13.00000	-1.8373	12.566	-0.019214	-3.4716	15.262E-6
41.00000	24.00000	13.00000	-1.4951	12.566	-0.015021	-2.9161	12.854E-6
42.00000	24.00000	13.00000	-1.2204	12.566	-0.012139	-2.4991	11.033E-6
43.00000	24.00000	13.00000	-0.99776	12.566	-0.010015	-2.1725	9.6056E-6
44.00000	24.00000	13.00000	-0.81598	12.566	-0.0083852	-1.9099	8.4559E-6
45.00000	24.00000	13.00000	-0.66669	12.566	-0.0070994	-1.6942	7.5101E-6
46.00000	24.00000	13.00000	-0.54254	12.566	-0.0060619	-1.5139	6.7188E-6
47.00000	24.00000	13.00000	-0.44158	12.566	-0.0052139	-1.3613	6.0477E-6
48.00000	24.00000	13.00000	-0.35693	12.566	-0.0045121	-1.2305	5.4723E-6
49.00000	24.00000	13.00000	-0.28649	12.566	-0.0039256	-1.1174	4.9742E-6
50.00000	24.00000	13.00000	-0.22779	12.566	-0.0034316	-1.0189	4.5395E-6
51.00000	24.00000	13.00000	-0.17881	12.566	-0.0030126	-0.93241	4.1577E-6
52.00000	24.00000	13.00000	-0.13793	12.566	-0.0026551	-0.85605	3.8202E-6
53.00000	24.00000	13.00000	-0.10379	12.566	-0.0023484	-0.78827	3.5204E-6
54.00000	24.00000	13.00000	-0.075295	12.566	-0.0020840	-0.72782	3.2527E-6
55.00000	24.00000	13.00000	-0.051526	12.566	-0.0018552	-0.67367	3.0127E-6
-25.00000	25						

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Name	Location		Displacement Z [Level] [mm]	Stresses				
	X [m]	Y [m]		Calc Level [MOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]	
	0.00000	25.00000	13.00000	-7.4769	12.566	-33.095	-62.194	-620.14E-6
	1.00000	25.00000	13.00000	-9.0441	12.566	-49.364	-80.354	-981.43E-6
	2.00000	25.00000	13.00000	-10.297	12.566	-58.629	-93.750	-0.0011733
	3.00000	25.00000	13.00000	-11.229	12.566	-62.661	-102.33	-0.0012443
	4.00000	25.00000	13.00000	-11.929	12.566	-64.379	-107.74	-0.0012666
	5.00000	25.00000	13.00000	-12.467	12.566	-65.166	-111.25	-0.0012721
	6.00000	25.00000	13.00000	-12.886	12.566	-65.557	-113.59	-0.0012721
	7.00000	25.00000	13.00000	-13.215	12.566	-65.763	-115.16	-0.0012706
	8.00000	25.00000	13.00000	-13.475	12.566	-65.874	-116.19	-0.0012689
	9.00000	25.00000	13.00000	-13.678	12.566	-65.929	-116.82	-0.0012676
	10.00000	25.00000	13.00000	-13.834	12.566	-65.946	-117.11	-0.0012667
	11.00000	25.00000	13.00000	-13.950	12.566	-65.930	-117.09	-0.0012663
	12.00000	25.00000	13.00000	-14.031	12.566	-65.875	-116.76	-0.0012664
	13.00000	25.00000	13.00000	-14.081	12.566	-65.765	-116.06	-0.0012665
	14.00000	25.00000	13.00000	-14.102	12.566	-65.561	-114.92	-0.0012661
	15.00000	25.00000	13.00000	-14.094	12.566	-65.173	-113.18	-0.0012635
	16.00000	25.00000	13.00000	-14.058	12.566	-64.394	-110.56	-0.0012541
	17.00000	25.00000	13.00000	-13.995	12.566	-62.699	-106.70	-0.0012255
	18.00000	25.00000	13.00000	-13.919	12.566	-58.767	-101.41	-0.0011422
	19.00000	25.00000	13.00000	-13.931	12.566	-50.466	-98.542	-928.80E-6
	20.00000	25.00000	13.00000	-15.154	12.566	-77.461	-154.63	-0.0014102
	21.00000	25.00000	13.00000	-16.358	12.566	-104.45	-210.69	-0.0018918
	22.00000	25.00000	13.00000	-16.316	12.566	-96.153	-207.73	-0.0016788
	23.00000	25.00000	13.00000	-16.145	12.566	-92.218	-202.27	-0.0015963
	24.00000	25.00000	13.00000	-15.946	12.566	-90.518	-198.16	-0.0015686
	25.00000	25.00000	13.00000	-15.727	12.566	-89.732	-195.20	-0.0015606
	26.00000	25.00000	13.00000	-15.479	12.566	-89.336	-193.00	-0.0015598
	27.00000	25.00000	13.00000	-15.193	12.566	-89.118	-191.26	-0.0015617
	28.00000	25.00000	13.00000	-14.854	12.566	-88.990	-189.78	-0.0015650
	29.00000	25.00000	13.00000	-14.442	12.566	-88.908	-188.36	-0.0015692
	30.00000	25.00000	13.00000	-13.931	12.566	-88.850	-186.81	-0.0015747
	31.00000	25.00000	13.00000	-13.273	12.566	-88.793	-184.73	-0.0015826
	32.00000	25.00000	13.00000	-12.386	12.566	-88.670	-180.99	-0.0015962
	33.00000	25.00000	13.00000	-11.077	12.566	-87.687	-170.07	-0.0016191
	34.00000	25.00000	13.00000	-8.2314	12.566	-44.412	-95.482	-777.52E-6
	35.00000	25.00000	13.00000	-5.3873	12.566	-1.1389	-20.939	64.138E-6
	36.00000	25.00000	13.00000	-4.0845	12.566	-0.16672	-10.168	41.686E-6
	37.00000	25.00000	13.00000	-3.2080	12.566	-0.061960	-6.6802	28.686E-6
	38.00000	25.00000	13.00000	-2.5647	12.566	-0.034933	-4.9715	21.654E-6
	39.00000	25.00000	13.00000	-2.0719	12.566	-0.023865	-3.9467	17.296E-6
	40.00000	25.00000	13.00000	-1.6850	12.566	-0.017908	-3.2566	14.320E-6
	41.00000	25.00000	13.00000	-1.3760	12.566	-0.014131	-2.7564	12.149E-6
	42.00000	25.00000	13.00000	-1.1264	12.566	-0.011488	-2.3755	10.489E-6
	43.00000	25.00000	13.00000	-0.92305	12.566	-0.0095227	-2.0749	9.1754E-6
	44.00000	25.00000	13.00000	-0.75623	12.566	-0.0080030	-1.8314	8.1093E-6
	45.00000	25.00000	13.00000	-0.61869	12.566	-0.0067948	-1.6300	7.2265E-6
	46.00000	25.00000	13.00000	-0.50482	12.566	-0.0058189	-1.4608	6.4839E-6
	47.00000	25.00000	13.00000	-0.41025	12.566	-0.0050165	-1.3168	5.8511E-6
	48.00000	25.00000	13.00000	-0.33151	12.566	-0.0043502	-1.1930	5.3061E-6
	49.00000	25.00000	13.00000	-0.26583	12.566	-0.0037918	-1.0855	4.8327E-6
	50.00000	25.00000	13.00000	-0.21097	12.566	-0.0033201	-0.99156	4.4183E-6
	51.00000	25.00000	13.00000	-0.16511	12.566	-0.0029192	-0.90885	4.0531E-6
	52.00000	25.00000	13.00000	-0.12676	12.566	-0.0025764	-0.83563	3.7295E-6
	53.00000	25.00000	13.00000	-0.094685	12.566	-0.0022818	-0.77049	3.4413E-6
	54.00000	25.00000	13.00000	-0.067873	12.566	-0.0020274	-0.71226	3.1835E-6
	55.00000	25.00000	13.00000	-0.045481	12.566	-0.0018069	-0.66001	2.9519E-6
	-25.00000	26.00000	13.00000	-0.011736	12.566	-0.0059639	-0.95484	4.1792E-6
	-24.00000	26.00000	13.00000	-0.025320	12.566	-0.0069025	-1.0359	4.5223E-6
	-23.00000	26.00000	13.00000	-0.041465	12.566	-0.0080275	-1.1265	4.9036E-6
	-22.00000	26.00000	13.00000	-0.060616	12.566	-0.0093847	-1.2281	5.3285E-6
	-21.00000	26.00000	13.00000	-0.083301	12.566	-0.011030	-1.3424	5.8034E-6
	-20.00000	26.00000	13.00000	-0.11014	12.566	-0.013053	-1.4716	6.3358E-6
	-19.00000	26.00000	13.00000	-0.14188	12.566	-0.015546	-1.6183	6.9345E-6
	-18.00000	26.00000	13.00000	-0.17939	12.566	-0.018653	-1.7855	7.6101E-6
	-17.00000	26.00000	13.00000	-0.22373	12.566	-0.022567	-1.9772	8.3750E-6
	-16.00000	26.00000	13.00000	-0.27616	12.566	-0.027553	-2.1982	9.2440E-6
	-15.00000	26.00000	13.00000	-0.33818	12.566	-0.033990	-2.4547	10.235E-6
	-14.00000	26.00000	13.00000	-0.41164	12.566	-0.042422	-2.7546	11.368E-6
	-13.00000	26.00000	13.00000	-0.49873	12.566	-0.053653	-3.1080	12.669E-6
	-12.00000	26.00000	13.00000	-0.60220	12.566	-0.068904	-3.5284	14.165E-6
	-11.00000	26.00000	13.00000	-0.72537	12.566	-0.090706	-4.0340	15.886E-6
	-10.00000	26.00000	13.00000	-0.87241	12.566	-0.12024	-4.6495	17.862E-6
	-9.00000	26.00000	13.00000	-1.0486	12.566	-0.16453	-5.4098	20.111E-6
	-8.00000	26.00000	13.00000	-1.2605	12.566	-0.23198	-6.3655	22.616E-6
	-7.00000	26.00000	13.00000	-1.5168	12.566	-0.33921	-7.5918	25.267E-6
	-6.00000	26.00000	13.00000	-1.8290	12.566	-0.51883	-9.2049	27.701E-6
	-5.00000	26.00000	13.00000	-2.2126	12.566	-0.83925	-11.391	28.901E-6
	-4.00000	26.00000	13.00000	-2.6896	12.566	-1.4550	-14.461	26.061E-6
	-3.00000	26.00000	13.00000	-3.2920	12.566	-2.7394	-18.944	11.401E-6
	-2.00000	26.00000	13.00000	-4.0660	12.566	-5.6040	-25.697	-36.045E-6
	-1.00000	26.00000	13.00000	-5.0652	12.566	-11.862	-35.761	-161.01E-6
	0.00000	26.00000	13.00000	-6.2726	12.566	-22.478	-48.967	-390.61E-6
	1.00000	26.00000	13.00000	-7.4786	12.566	-33.094	-62.157	-620.27E-6
	2.00000	26.00000	13.00000	-8.4738	12.566	-39.350	-72.172	-745.42E-6
	3.00000	26.00000	13.00000	-9.2408	12.566	-42.212	-78.842	-793.18E-6
	4.00000	26.00000	13.00000	-9.8331	12.566	-43.492	-83.203	-808.28E-6
	5.00000	26.00000	13.00000	-10.297	12.566	-44.103	-86.112	-811.70E-6
	6.00000	26.00000	13.00000	-10.664	12.566	-44.415	-88.090	-811.23E-6
	7.00000	26.00000	13.00000	-10.956	12.566	-44.584	-89.441	-809.70E-6
	8.00000	26.00000	13.00000	-11.187	12.566	-44.677	-90.341	-808.13E-6
	9.00000	26.00000	13.00000	-11.369	12.566	-44.723	-90.892	-806.89E-6
	10.00000	26.00000	13.00000	-11.510	12.566	-44.738	-91.148	-806.12E-6
	11.00000	26.00000	13.00000	-11.616	12.566	-44.724		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

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Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

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Drg. Ref.

Made by

Date

Checked

MP

Name	Location	Displacement	Stresses	
X	Y	Z [Level]	Calc Level	Vert Stress
[m]	[m]	[mm]	[mm]	[kN/m²]
49.00000	26.00000	13.00000	-0.24459	12.566
50.00000	26.00000	13.00000	-0.19368	12.566
51.00000	26.00000	13.00000	-0.15101	12.566
52.00000	26.00000	13.00000	-0.11526	12.566
53.00000	26.00000	13.00000	-0.085305	12.566
54.00000	26.00000	13.00000	-0.060226	12.566
55.00000	26.00000	13.00000	-0.039252	12.566
-25.00000	27.00000	13.00000	-0.0078521	12.566
-24.00000	27.00000	13.00000	-0.020593	12.566
-23.00000	27.00000	13.00000	-0.035724	12.566
-22.00000	27.00000	13.00000	-0.053651	12.566
-21.00000	27.00000	13.00000	-0.074859	12.566
-20.00000	27.00000	13.00000	-0.099914	12.566
-19.00000	27.00000	13.00000	-0.12949	12.566
-18.00000	27.00000	13.00000	-0.16437	12.566
-17.00000	27.00000	13.00000	-0.20552	12.566
-16.00000	27.00000	13.00000	-0.25405	12.566
-15.00000	27.00000	13.00000	-0.31129	12.566
-14.00000	27.00000	13.00000	-0.37888	12.566
-13.00000	27.00000	13.00000	-0.45873	12.566
-12.00000	27.00000	13.00000	-0.55321	12.566
-11.00000	27.00000	13.00000	-0.66517	12.566
-10.00000	27.00000	13.00000	-0.79810	12.566
-9.00000	27.00000	13.00000	-0.95636	12.566
-8.00000	27.00000	13.00000	-1.1453	12.566
-7.00000	27.00000	13.00000	-1.37118	12.566
-6.00000	27.00000	13.00000	-1.6445	12.566
-5.00000	27.00000	13.00000	-1.9748	12.566
-4.00000	27.00000	13.00000	-2.3772	12.566
-3.00000	27.00000	13.00000	-2.8712	12.566
-2.00000	27.00000	13.00000	-3.4798	12.566
-1.00000	27.00000	13.00000	-4.2204	12.566
0.00000	27.00000	13.00000	-5.0665	12.566
1.00000	27.00000	13.00000	-5.9112	12.566
2.00000	27.00000	13.00000	-6.6480	12.566
3.00000	27.00000	13.00000	-7.2501	12.566
4.00000	27.00000	13.00000	-7.7348	12.566
5.00000	27.00000	13.00000	-8.1250	12.566
6.00000	27.00000	13.00000	-8.4397	12.566
7.00000	27.00000	13.00000	-8.6933	12.566
8.00000	27.00000	13.00000	-8.9968	12.566
9.00000	27.00000	13.00000	-9.0584	12.566
10.00000	27.00000	13.00000	-9.1842	12.566
11.00000	27.00000	13.00000	-9.2790	12.566
12.00000	27.00000	13.00000	-9.3463	12.566
13.00000	27.00000	13.00000	-9.3886	12.566
14.00000	27.00000	13.00000	-9.4076	12.566
15.00000	27.00000	13.00000	-9.4042	12.566
16.00000	27.00000	13.00000	-9.3789	12.566
17.00000	27.00000	13.00000	-9.3322	12.566
18.00000	27.00000	13.00000	-9.2672	12.566
19.00000	27.00000	13.00000	-9.1986	12.566
20.00000	27.00000	13.00000	-9.1553	12.566
21.00000	27.00000	13.00000	-9.0971	12.566
22.00000	27.00000	13.00000	-8.9834	12.566
23.00000	27.00000	13.00000	-8.8414	12.566
24.00000	27.00000	13.00000	-8.6832	12.566
25.00000	27.00000	13.00000	-8.5081	12.566
26.00000	27.00000	13.00000	-8.3112	12.566
27.00000	27.00000	13.00000	-8.0857	12.566
28.00000	27.00000	13.00000	-7.8230	12.566
29.00000	27.00000	13.00000	-7.5120	12.566
30.00000	27.00000	13.00000	-7.1384	12.566
31.00000	27.00000	13.00000	-6.6828	12.566
32.00000	27.00000	13.00000	-6.1187	12.566
33.00000	27.00000	13.00000	-5.4138	12.566
34.00000	27.00000	13.00000	-4.5650	12.566
35.00000	27.00000	13.00000	-3.7178	12.566
36.00000	27.00000	13.00000	-3.0177	12.566
37.00000	27.00000	13.00000	-2.4619	12.566
38.00000	27.00000	13.00000	-2.0180	12.566
39.00000	27.00000	13.00000	-1.6598	12.566
40.00000	27.00000	13.00000	-1.3681	12.566
41.00000	27.00000	13.00000	-1.1291	12.566
42.00000	27.00000	13.00000	-0.93190	12.566
43.00000	27.00000	13.00000	-0.76957	12.566
44.00000	27.00000	13.00000	-0.63275	12.566
45.00000	27.00000	13.00000	-0.51947	12.566
46.00000	27.00000	13.00000	-0.42477	12.566
47.00000	27.00000	13.00000	-0.34544	12.566
48.00000	27.00000	13.00000	-0.27890	12.566
49.00000	27.00000	13.00000	-0.22304	12.566
50.00000	27.00000	13.00000	-0.17612	12.566
51.00000	27.00000	13.00000	-0.13669	12.566
52.00000	27.00000	13.00000	-0.10357	12.566
53.00000	27.00000	13.00000	-0.075764	12.566
54.00000	27.00000	13.00000	-0.052443	12.566
55.00000	27.00000	13.00000	-0.032910	12.566
-25.00000	28.00000	13.00000	-0.0039233	12.566
-24.00000	28.00000	13.00000	-0.015813	12.566
-23.00000	28.00000	13.00000	-0.029920	12.566
-22.00000	28.00000	13.00000	-0.046615	12.566
-21.00000	28.00000	13.00000	-0.066336	12.566
-20.00000	28.00000	13.00000	-0.089597	12.566
-19.00000	28.00000	13.00000	-0.11700	12.566
-18.00000	28.00000	13.00000	-0.14926	12.566
-17.00000	28.00000	13.00000	-0.181821	12.566
-16.00000	28.00000	13.00000	-0.21844	12.566
-15.00000	28.00000	13.00000	-0.28433	12.566
-14.00000	28.00000	13.00000	-0.34608	12.566
-13.00000	28.00000	13.00000	-0.41876	12.566
-12.00000	28.00000	13.00000	-0.50435	12.566
-11.00000	28.00000	13.00000	-0.60524	12.566
-10.00000	28.00000	13.00000	-0.72431	12.566
-9.00000	28.00000	13.00000	-0.86505	12.566
-8.00000	28.00000	13.00000	-1.0317	12.566
-7.00000	28.00000	13.00000	-1.2293	12.566
-6.00000	28.00000	13.00000	-1.4641	12.566
-5.00000	28.00000	13.00000	-1.7438	12.566
-4.00000	28.00000	13.00000	-2.0770	12.566
-3.00000	28.00000	13.00000	-2.4736	12.566
-2.00000	28.00000	13.00000	-2.9417	12.566
-1.00000	28.00000	13.00000	-3.4807	12.566
0.00000	28.00000	13.00000	-4.0680	12.566
1.00000	28.00000	13.00000	-4.6542	12.566
2.00000	28.00000	13.00000	-5.1897	12.566
3.00000	28.00000	13.00000	-5.6517	12.566
4.00000	28.00000	13.00000	-6.0396	12.566
5.00000	28.00000	13.00000	-6.3615	12.566
6.00000	28.00000	13.00000	-6.6268	12.566
7.00000	28.00000	13.00000	-6.8441	12.566
8.00000	28.00000	13.00000	-7.0206	12.566
9.00000	28.00000	13.00000	-7.1620	12.566
10.00000	28.00000	13.00000	-7.2730	12.566
11.00000	28.00000	13.00000	-7.3573	12.566
12.00000	28.00000	13.00000	-7.4177	12.566
13.00000	28.00000	13.00000	-7.4561	12.566
14.00000	28.00000	13.00000	-7.4741	12.566
15.00000	28.00000	13.00000	-7.4727	12.566
16.00000	28.00000	13.00000	-7.4523	12.566



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [m]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
17.00000	28.00000	13.00000	-7.4134	12.566	-9.8972	-40.111	-87.634E-6
18.00000	28.00000	13.00000	-7.3572	12.566	-9.0236	-37.739	-74.588E-6
19.00000	28.00000	13.00000	-7.2863	12.566	-7.6030	-34.849	-48.972E-6
20.00000	28.00000	13.00000	-7.2040	12.566	-5.6945	-31.675	-11.334E-6
21.00000	28.00000	13.00000	-7.1084	12.566	-3.7856	-28.476	26.202E-6
22.00000	28.00000	13.00000	-6.9970	12.566	-2.3638	-25.510	51.510E-6
23.00000	28.00000	13.00000	-6.8719	12.566	-1.4880	-23.010	64.033E-6
24.00000	28.00000	13.00000	-6.7336	12.566	-0.98551	-21.009	68.644E-6
25.00000	28.00000	13.00000	-6.5803	12.566	-0.69672	-19.419	69.293E-6
26.00000	28.00000	13.00000	-6.4080	12.566	-0.52541	-18.131	68.113E-6
27.00000	28.00000	13.00000	-6.2119	12.566	-0.41950	-17.052	66.094E-6
28.00000	28.00000	13.00000	-5.9858	12.566	-0.35113	-16.103	63.644E-6
29.00000	28.00000	13.00000	-5.7224	12.566	-0.30488	-15.216	60.873E-6
30.00000	28.00000	13.00000	-5.4129	12.566	-0.27160	-14.321	57.713E-6
31.00000	28.00000	13.00000	-5.0477	12.566	-0.24487	-13.333	53.948E-6
32.00000	28.00000	13.00000	-4.6174	12.566	-0.21808	-12.131	49.215E-6
33.00000	28.00000	13.00000	-4.1194	12.566	-0.18141	-10.571	43.121E-6
34.00000	28.00000	13.00000	-3.5724	12.566	-0.12756	-8.6454	35.832E-6
35.00000	28.00000	13.00000	-3.0268	12.566	-0.075771	-6.7526	28.638E-6
36.00000	28.00000	13.00000	-2.5332	12.566	-0.045535	-5.2938	22.830E-6
37.00000	28.00000	13.00000	-2.1102	12.566	-0.030409	-4.2668	18.572E-6
38.00000	28.00000	13.00000	-1.7553	12.566	-0.022207	-3.5355	15.471E-6
39.00000	28.00000	13.00000	-1.4594	12.566	-0.017178	-2.9950	13.150E-6
40.00000	28.00000	13.00000	-1.2130	12.566	-0.013775	-2.5805	11.358E-6
41.00000	28.00000	13.00000	-1.0074	12.566	-0.011309	-2.2527	9.9352E-6
42.00000	28.00000	13.00000	-0.83565	12.566	-0.0094369	-1.9871	8.7784E-6
43.00000	28.00000	13.00000	-0.69184	12.566	-0.0079702	-1.7676	7.8203E-6
44.00000	28.00000	13.00000	-0.57122	12.566	-0.0067946	-1.5833	7.0144E-6
45.00000	28.00000	13.00000	-0.46989	12.566	-0.0058367	-1.4266	6.3278E-6
46.00000	28.00000	13.00000	-0.38466	12.566	-0.0050459	-1.2919	5.7367E-6
47.00000	28.00000	13.00000	-0.31289	12.566	-0.0044863	-1.1750	5.2223E-6
48.00000	28.00000	13.00000	-0.25243	12.566	-0.0038315	-1.0728	4.7738E-6
49.00000	28.00000	13.00000	-0.20147	12.566	-0.0033615	-0.98291	4.3778E-6
50.00000	28.00000	13.00000	-0.15851	12.566	-0.0029608	-0.90333	4.0269E-6
51.00000	28.00000	13.00000	-0.12231	12.566	-0.0026173	-0.83254	3.7144E-6
52.00000	28.00000	13.00000	-0.091825	12.566	-0.0023214	-0.76928	3.4347E-6
53.00000	28.00000	13.00000	-0.066171	12.566	-0.0020653	-0.71251	3.1836E-6
54.00000	28.00000	13.00000	-0.044611	12.566	-0.0018429	-0.66138	2.9572E-6
55.00000	28.00000	13.00000	-0.026524	12.566	-0.0016489	-0.61517	2.7523E-6
-25.00000	29.00000	13.00000	12.728E-6	12.566	0.0051565	-0.87615	3.8434E-6
-24.00000	29.00000	13.00000	-0.011026	12.566	-0.0059247	-0.94647	4.1422E-6
-23.00000	29.00000	13.00000	-0.024110	12.566	-0.0068364	-1.0245	4.4721E-6
-22.00000	29.00000	13.00000	-0.039576	12.566	-0.0079245	-1.1113	4.8372E-6
-21.00000	29.00000	13.00000	-0.057819	12.566	-0.0092311	-1.2082	5.2421E-6
-20.00000	29.00000	13.00000	-0.079297	12.566	-0.010811	-1.3167	5.6925E-6
-19.00000	29.00000	13.00000	-0.10455	12.566	-0.012734	-1.4387	6.1947E-6
-18.00000	29.00000	13.00000	-0.13420	12.566	-0.015094	-1.5763	6.7560E-6
-17.00000	29.00000	13.00000	-0.16900	12.566	-0.018015	-1.7322	7.3851E-6
-16.00000	29.00000	13.00000	-0.20980	12.566	-0.021666	-1.9096	8.0923E-6
-15.00000	29.00000	13.00000	-0.25762	12.566	-0.026277	-2.1125	8.8891E-6
-14.00000	29.00000	13.00000	-0.31366	12.566	-0.032169	-2.3458	9.7893E-6
-13.00000	29.00000	13.00000	-0.37933	12.566	-0.039795	-2.6157	10.809E-6
-12.00000	29.00000	13.00000	-0.45629	12.566	-0.049811	-2.9300	11.964E-6
-11.00000	29.00000	13.00000	-0.54648	12.566	-0.063178	-3.2986	13.276E-6
-10.00000	29.00000	13.00000	-0.65222	12.566	-0.081344	-3.7244	14.762E-6
-9.00000	29.00000	13.00000	-0.77623	12.566	-0.10654	-4.2542	16.439E-6
-8.00000	29.00000	13.00000	-0.92168	12.566	-0.14227	-4.8803	18.310E-6
-7.00000	29.00000	13.00000	-1.0923	12.566	-0.19419	-5.6422	20.358E-6
-6.00000	29.00000	13.00000	-1.2922	12.566	-0.27164	-6.5793	22.506E-6
-5.00000	29.00000	13.00000	-1.5263	12.566	-0.39013	-7.7433	24.567E-6
-4.00000	29.00000	13.00000	-1.7991	12.566	-0.57523	-9.1998	26.139E-6
-3.00000	29.00000	13.00000	-2.1146	12.566	-0.86648	-11.023	26.482E-6
-2.00000	29.00000	13.00000	-2.4742	12.566	-1.3145	-13.272	24.484E-6
-1.00000	29.00000	13.00000	-2.8726	12.566	-1.9531	-15.939	19.189E-6
0.00000	29.00000	13.00000	-3.2946	12.566	-2.7376	-18.877	11.147E-6
1.00000	29.00000	13.00000	-3.7154	12.566	-3.5217	-21.802	3.0570E-6
2.00000	29.00000	13.00000	-4.1105	12.566	-4.1592	-24.431	-2.3846E-6
3.00000	29.00000	13.00000	-4.4645	12.566	-4.6053	-26.614	-4.6282E-6
4.00000	29.00000	13.00000	-4.7722	12.566	-4.8938	-28.343	-4.6361E-6
5.00000	29.00000	13.00000	-5.0345	12.566	-5.0749	-29.675	-3.5233E-6
6.00000	29.00000	13.00000	-5.2553	12.566	-5.1881	-30.680	-2.0401E-6
7.00000	29.00000	13.00000	-5.4391	12.566	-5.2583	-31.419	0.0
8.00000	29.00000	13.00000	-5.5904	12.566	-5.3006	-31.938	0.0
9.00000	29.00000	13.00000	-5.7128	12.566	-5.3232	-32.269	1.5029E-6
10.00000	29.00000	13.00000	-5.8098	12.566	-5.3303	-32.431	2.0435E-6
11.00000	29.00000	13.00000	-5.8840	12.566	-5.3234	-32.433	2.2408E-6
12.00000	29.00000	13.00000	-5.9376	12.566	-5.3011	-32.274	2.1255E-6
13.00000	29.00000	13.00000	-5.9723	12.566	-5.2593	-31.944	1.7643E-6
14.00000	29.00000	13.00000	-5.9892	12.566	-5.1896	-31.483	1.2902E-6
15.00000	29.00000	13.00000	-5.9894	12.566	-5.0774	-30.676	0.0
16.00000	29.00000	13.00000	-5.9733	12.566	-4.8977	-29.666	1.2725E-6
17.00000	29.00000	13.00000	-5.9415	12.566	-4.6117	-28.347	3.0745E-6
18.00000	29.00000	13.00000	-5.8947	12.566	-4.1700	-26.690	7.5940E-6
19.00000	29.00000	13.00000	-5.8338	12.566	-3.5397	-24.721	15.838E-6
20.00000	29.00000	13.00000	-5.7602	12.566	-2.7655	-22.552	27.097E-6
21.00000	29.00000	13.00000	-5.6746	12.566	-1.9909	-20.360	38.264E-6
22.00000	29.00000	13.00000	-5.5777	12.566	-1.3595	-18.324	46.231E-6
23.00000	29.00000	13.00000	-5.4699	12.566	-0.91577	-16.552	50.279E-6
24.00000	29.00000	13.00000	-5.3503	12.566	-0.62693	-15.066	51.402E-6
25.00000	29.00000	13.00000	-5.2173	12.566	-0.44312	-13.831	50.804E-6
26.00000	29.00000	13.00000	-5.0682	12.566	-0.32527	-12.795	49.310E-6
27.00000	29.00000	13.00000	-4.8995	12.566	-0.24801	-11.905	47.370E-6
28.00000	29.00000	13.00000	-4.7071	12.566	-0.19590	-11.113	45.189E-6
29.00000	29.00000	13.00000	-4.4866	12.566	-0.15954	-10.375	42.826E-6
30.00000	29.00000	13.00000	-4.2332	12.566	-0.13306	-9.6505	40.253E-6
31.00000	29.00000	13.00000	-3.9426	12.566			

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by	Date	Checked
MP		

Name	Location		Displacement		Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	-15.00000	30.00000	13.00000	-0.23146	12.566	-0.023848	-1.9993	8.4407E-6
	-14.00000	30.00000	13.00000	-0.28199	12.566	-0.028975	-2.2116	9.2663E-6
	-13.00000	30.00000	13.00000	-0.34093	12.566	-0.035534	-2.4555	10.196E-6
	-12.00000	30.00000	13.00000	-0.40963	12.566	-0.044029	-2.7371	11.245E-6
	-11.00000	30.00000	13.00000	-0.48967	12.566	-0.055183	-3.0642	12.428E-6
	-10.00000	30.00000	13.00000	-0.58285	12.566	-0.070047	-3.4466	13.761E-6
	-9.00000	30.00000	13.00000	-0.69123	12.566	-0.090176	-3.8966	15.258E-6
	-8.00000	30.00000	13.00000	-0.81715	12.566	-0.11790	-4.4298	16.927E-6
	-7.00000	30.00000	13.00000	-0.96316	12.566	-0.15675	-5.0660	18.760E-6
	-6.00000	30.00000	13.00000	-1.1320	12.566	-0.21210	-5.8296	20.722E-6
	-5.00000	30.00000	13.00000	-1.3263	12.566	-0.29200	-6.7498	22.726E-6
	-4.00000	30.00000	13.00000	-1.5485	12.566	-0.40801	-7.8588	24.604E-6
	-3.00000	30.00000	13.00000	-1.7994	12.566	-0.57491	-9.1859	26.085E-6
	-2.00000	30.00000	13.00000	-2.0780	12.566	-0.80685	-10.743	26.837E-6
	-1.00000	30.00000	13.00000	-2.3790	12.566	-1.1068	-12.503	26.658E-6
	0.00000	30.00000	13.00000	-2.6925	12.566	-1.4530	-14.383	25.761E-6
	1.00000	30.00000	13.00000	-3.0051	12.566	-1.7988	-16.251	24.820E-6
	2.00000	30.00000	13.00000	-3.3030	12.566	-2.0979	-17.976	24.506E-6
	3.00000	30.00000	13.00000	-3.5765	12.566	-2.3281	-19.474	25.032E-6
	4.00000	30.00000	13.00000	-3.8201	12.566	-2.4926	-20.715	26.192E-6
	5.00000	30.00000	13.00000	-4.0327	12.566	-2.6052	-21.711	27.649E-6
	6.00000	30.00000	13.00000	-4.2149	12.566	-2.6804	-22.488	29.126E-6
	7.00000	30.00000	13.00000	-4.3691	12.566	-2.7296	-23.074	30.448E-6
	8.00000	30.00000	13.00000	-4.4974	12.566	-2.7603	-23.493	31.519E-6
	9.00000	30.00000	13.00000	-4.6025	12.566	-2.7770	-23.764	32.296E-6
	10.00000	30.00000	13.00000	-4.6864	12.566	-2.7824	-23.900	32.765E-6
	11.00000	30.00000	13.00000	-4.7512	12.566	-2.7772	-23.905	32.931E-6
	12.00000	30.00000	13.00000	-4.7984	12.566	-2.7607	-23.781	32.815E-6
	13.00000	30.00000	13.00000	-4.8294	12.566	-2.7304	-23.520	32.456E-6
	14.00000	30.00000	13.00000	-4.8451	12.566	-2.6816	-23.111	31.928E-6
	15.00000	30.00000	13.00000	-4.8464	12.566	-2.6069	-22.538	31.363E-6
	16.00000	30.00000	13.00000	-4.8339	12.566	-2.4952	-21.783	30.975E-6
	17.00000	30.00000	13.00000	-4.8082	12.566	-2.3320	-20.828	31.083E-6
	18.00000	30.00000	13.00000	-4.7697	12.566	-2.1037	-19.670	32.049E-6
	19.00000	30.00000	13.00000	-4.7192	12.566	-1.8074	-18.335	34.064E-6
	20.00000	30.00000	13.00000	-4.6575	12.566	-1.4648	-16.887	36.825E-6
	21.00000	30.00000	13.00000	-4.5852	12.566	-1.1218	-15.418	39.504E-6
	22.00000	30.00000	13.00000	-4.5030	12.566	-0.82449	-14.023	41.270E-6
	23.00000	30.00000	13.00000	-4.4109	12.566	-0.59443	-12.762	41.814E-6
	24.00000	30.00000	13.00000	-4.3082	12.566	-0.42875	-11.659	41.317E-6
	25.00000	30.00000	13.00000	-4.1938	12.566	-0.31347	-10.705	40.124E-6
	26.00000	30.00000	13.00000	-4.0658	12.566	-0.23395	-9.8776	38.533E-6
	27.00000	30.00000	13.00000	-3.9219	12.566	-0.17873	-9.1497	36.730E-6
	28.00000	30.00000	13.00000	-3.7597	12.566	-0.13976	-8.4935	34.809E-6
	29.00000	30.00000	13.00000	-3.5765	12.566	-0.11165	-7.8831	32.800E-6
	30.00000	30.00000	13.00000	-3.3700	12.566	-0.090799	-7.2941	30.691E-6
	31.00000	30.00000	13.00000	-3.1388	12.566	-0.074723	-6.7051	28.451E-6
	32.00000	30.00000	13.00000	-2.8838	12.566	-0.061691	-6.0992	26.051E-6
	33.00000	30.00000	13.00000	-2.6092	12.566	-0.050552	-5.4716	23.501E-6
	34.00000	30.00000	13.00000	-2.3236	12.566	-0.040782	-4.8365	20.880E-6
	35.00000	30.00000	13.00000	-2.0391	12.566	-0.032435	-4.2262	18.333E-6
	36.00000	30.00000	13.00000	-1.7678	12.566	-0.025709	-3.6739	16.005E-6
	37.00000	30.00000	13.00000	-1.5184	12.566	-0.020542	-3.1968	13.976E-6
	38.00000	30.00000	13.00000	-1.2951	12.566	-0.016639	-2.7949	12.255E-6
	39.00000	30.00000	13.00000	-1.0989	12.566	-0.013673	-2.4592	10.810E-6
	40.00000	30.00000	13.00000	-0.92823	12.566	-0.011381	-2.1783	9.5948E-6
	41.00000	30.00000	13.00000	-0.78099	12.566	-0.0095766	-1.9417	8.5681E-6
	42.00000	30.00000	13.00000	-0.65450	12.566	-0.0081323	-1.7408	7.6938E-6
	43.00000	30.00000	13.00000	-0.54616	12.566	-0.0069591	-1.5687	6.9435E-6
	44.00000	30.00000	13.00000	-0.45356	12.566	-0.0059946	-1.4202	6.2944E-6
	45.00000	30.00000	13.00000	-0.37452	12.566	-0.0051935	-1.2911	5.7290E-6
	46.00000	30.00000	13.00000	-0.30712	12.566	-0.0045224	-1.1780	5.2333E-6
	47.00000	30.00000	13.00000	-0.24970	12.566	-0.0039560	-1.0785	4.7961E-6
	48.00000	30.00000	13.00000	-0.20084	12.566	-0.0034748	-0.99035	4.4085E-6
	49.00000	30.00000	13.00000	-0.15929	12.566	-0.0030637	-0.91195	4.0633E-6
	50.00000	30.00000	13.00000	-0.12400	12.566	-0.0027106	-0.84191	3.7544E-6
	51.00000	30.00000	13.00000	-0.094053	12.566	-0.0024060	-0.77908	3.4770E-6
	52.00000	30.00000	13.00000	-0.068688	12.566	-0.0021421	-0.72252	3.2270E-6
	53.00000	30.00000	13.00000	-0.047236	12.566	-0.0019125	-0.67143	3.0010E-6
	54.00000	30.00000	13.00000	-0.029131	12.566	-0.0017120	-0.62515	2.7960E-6
	55.00000	30.00000	13.00000	-0.013888	12.566	-0.0015368	-0.58310	2.6096E-6
	-25.00000	31.00000	13.00000	0.0077631	12.566	-0.0046149	-0.82117	3.6081E-6
	-24.00000	31.00000	13.00000	-0.0016048	12.566	-0.0052729	-0.88426	3.8771E-6
	-23.00000	31.00000	13.00000	-0.012687	12.566	-0.0060476	-0.95388	4.1725E-6
	-22.00000	31.00000	13.00000	-0.025754	12.566	-0.0069642	-1.0309	4.4977E-6
	-21.00000	31.00000	13.00000	-0.041118	12.566	-0.0080545	-1.1163	4.8564E-6
	-20.00000	31.00000	13.00000	-0.059139	12.566	-0.0093587	-1.2113	5.2528E-6
	-19.00000	31.00000	13.00000	-0.080233	12.566	-0.010928	-1.3173	5.6919E-6
	-18.00000	31.00000	13.00000	-0.10488	12.566	-0.012830	-1.4359	6.1791E-6
	-17.00000	31.00000	13.00000	-0.13363	12.566	-0.015151	-1.5689	6.7210E-6
	-16.00000	31.00000	13.00000	-0.16713	12.566	-0.018000	-1.7189	7.3248E-6
	-15.00000	31.00000	13.00000	-0.20610	12.566	-0.021542	-1.8884	7.9991E-6
	-14.00000	31.00000	13.00000	-0.25139	12.566	-0.025969	-2.0808	8.7532E-6
	-13.00000	31.00000	13.00000	-0.30396	12.566	-0.031560	-2.3001	9.5980E-6
	-12.00000	31.00000	13.00000	-0.36490	12.566	-0.038697	-2.5512	10.545E-6
	-11.00000	31.00000	13.00000	-0.43545	12.566	-0.047909	-2.8400	11.607E-6
	-10.00000	31.00000	13.00000	-0.51700	12.566	-0.055938	-3.1737	12.796E-6
	-9.00000	31.00000	13.00000	-0.61108	12.566	-0.075834	-3.5612	14.125E-6
	-8.00000	31.00000	13.00000	-0.71934	12.566	-0.097092	-4.0131	15.599E-6
	-7.00000	31.00000	13.00000	-0.84350	12.566	-0.12583	-4.5419	17.220E-6
	-6.00000	31.00000	13.00000	-0.98524	12.566	-0.16502	-5.1622	18.971E-6
	-5.00000	31.00000	13.00000	-1.1460	12.566	-0.21867	-5.8896	20.815E-6
	-4.00000							

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by	Date	Checked
MP		

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
34.00000	31.00000	13.00000	-1.9010	12.566	-0.031960	-4.0103	17.364E-6
35.00000	31.00000	13.00000	-1.6844	12.566	-0.026205	-3.5768	15.549E-6
36.00000	31.00000	13.00000	-1.4759	12.566	-0.021491	-3.1773	13.861E-6
37.00000	31.00000	13.00000	-1.2810	12.566	-0.017699	-2.8201	12.341E-6
38.00000	31.00000	13.00000	-1.1032	12.566	-0.014680	-2.5074	11.001E-6
39.00000	31.00000	13.00000	-0.94385	12.566	-0.012276	-2.2367	9.8358E-6
40.00000	31.00000	13.00000	-0.80298	12.566	-0.010352	-2.0032	8.8265E-6
41.00000	31.00000	13.00000	-0.67959	12.566	-0.0087962	-1.8016	7.9523E-6
42.00000	31.00000	13.00000	-0.57221	12.566	-0.0075263	-1.6270	7.1931E-6
43.00000	31.00000	13.00000	-0.47922	12.566	-0.0064798	-1.4751	6.5310E-6
44.00000	31.00000	13.00000	-0.39898	12.566	-0.0056098	-1.3423	5.9507E-6
45.00000	31.00000	13.00000	-0.32992	12.566	-0.0048809	-1.2256	5.4398E-6
46.00000	31.00000	13.00000	-0.27062	12.566	-0.0042658	-1.1225	4.9877E-6
47.00000	31.00000	13.00000	-0.21979	12.566	-0.0037436	-1.0310	4.5861E-6
48.00000	31.00000	13.00000	-0.17629	12.566	-0.0032977	-0.94950	4.2276E-6
49.00000	31.00000	13.00000	-0.13913	12.566	-0.0029151	-0.87659	3.9065E-6
50.00000	31.00000	13.00000	-0.10744	12.566	-0.0025853	-0.81113	3.6179E-6
51.00000	31.00000	13.00000	-0.080458	12.566	-0.0022997	-0.75216	3.3575E-6
52.00000	31.00000	13.00000	-0.057527	12.566	-0.0020515	-0.69888	3.1220E-6
53.00000	31.00000	13.00000	-0.038082	12.566	-0.0018350	-0.65058	2.9083E-6
54.00000	31.00000	13.00000	-0.021645	12.566	-0.0016455	-0.60669	2.7139E-6
55.00000	31.00000	13.00000	-0.0077597	12.566	-0.0014791	-0.56671	2.5366E-6
-25.00000	32.00000	13.00000	0.011513	12.566	-0.0043495	-0.79342	3.4892E-6
-24.00000	32.00000	13.00000	0.0029506	12.566	-0.0049550	-0.85296	3.7434E-6
-23.00000	32.00000	13.00000	-0.0071695	12.566	-0.0056647	-0.91848	4.0220E-6
-22.00000	32.00000	13.00000	-0.019087	12.566	-0.0065005	-0.99074	4.3278E-6
-21.00000	32.00000	13.00000	-0.033077	12.566	-0.0074896	-1.0706	4.6640E-6
-20.00000	32.00000	13.00000	-0.049454	12.566	-0.0086661	-1.1591	5.0343E-6
-19.00000	32.00000	13.00000	-0.068581	12.566	-0.010073	-1.2574	5.4431E-6
-18.00000	32.00000	13.00000	-0.090870	12.566	-0.011766	-1.3670	5.8949E-6
-17.00000	32.00000	13.00000	-0.116769	12.566	-0.013679	-1.4899	6.3954E-6
-16.00000	32.00000	13.00000	-0.14689	12.566	-0.016315	-1.6264	6.9506E-6
-15.00000	32.00000	13.00000	-0.18177	12.566	-0.019383	-1.7805	7.5675E-6
-14.00000	32.00000	13.00000	-0.22213	12.566	-0.023177	-1.9542	8.2539E-6
-13.00000	32.00000	13.00000	-0.26874	12.566	-0.027910	-2.1507	9.0184E-6
-12.00000	32.00000	13.00000	-0.32248	12.566	-0.033860	-2.3738	9.8703E-6
-11.00000	32.00000	13.00000	-0.38430	12.566	-0.041408	-2.6278	10.819E-6
-10.00000	32.00000	13.00000	-0.45526	12.566	-0.051065	-2.9180	11.876E-6
-9.00000	32.00000	13.00000	-0.53645	12.566	-0.063523	-3.2506	13.048E-6
-8.00000	32.00000	13.00000	-0.62903	12.566	-0.079715	-3.6324	14.343E-6
-7.00000	32.00000	13.00000	-0.73411	12.566	-0.10008	-4.0714	15.761E-6
-6.00000	32.00000	13.00000	-0.85265	12.566	-0.12861	-4.5758	17.298E-6
-5.00000	32.00000	13.00000	-0.98534	12.566	-0.16485	-5.1533	18.936E-6
-4.00000	32.00000	13.00000	-1.1323	12.566	-0.21170	-5.8098	20.643E-6
-3.00000	32.00000	13.00000	-1.2929	12.566	-0.27095	-6.5463	22.375E-6
-2.00000	32.00000	13.00000	-1.4653	12.566	-0.34177	-7.3561	24.087E-6
-1.00000	32.00000	13.00000	-1.6464	12.566	-0.42662	-8.2216	25.746E-6
0.00000	32.00000	13.00000	-1.8319	12.566	-0.51665	-9.1139	27.347E-6
1.00000	32.00000	13.00000	-2.0165	12.566	-0.60645	-9.9967	28.911E-6
2.00000	32.00000	13.00000	-2.1951	12.566	-0.69917	-10.833	30.458E-6
3.00000	32.00000	13.00000	-2.3692	12.566	-0.76013	-11.592	31.982E-6
4.00000	32.00000	13.00000	-2.5178	12.566	-0.81753	-12.261	33.448E-6
5.00000	32.00000	13.00000	-2.6568	12.566	-0.86183	-12.826	34.807E-6
6.00000	32.00000	13.00000	-2.7796	12.566	-0.89469	-13.287	36.011E-6
7.00000	32.00000	13.00000	-2.8860	12.566	-0.91802	-13.650	37.024E-6
8.00000	32.00000	13.00000	-2.9767	12.566	-0.93347	-13.919	37.822E-6
9.00000	32.00000	13.00000	-3.0523	12.566	-0.94228	-14.097	38.396E-6
10.00000	32.00000	13.00000	-3.1138	12.566	-0.94518	-14.191	38.740E-6
11.00000	32.00000	13.00000	-3.1621	12.566	-0.94241	-14.200	38.859E-6
12.00000	32.00000	13.00000	-3.1979	12.566	-0.93374	-14.126	38.760E-6
13.00000	32.00000	13.00000	-3.2220	12.566	-0.91848	-13.968	38.458E-6
14.00000	32.00000	13.00000	-3.2350	12.566	-0.89533	-13.724	37.976E-6
15.00000	32.00000	13.00000	-3.2376	12.566	-0.86272	-13.390	37.347E-6
16.00000	32.00000	13.00000	-3.2302	12.566	-0.81874	-12.965	36.615E-6
17.00000	32.00000	13.00000	-3.2133	12.566	-0.76176	-12.451	35.832E-6
18.00000	32.00000	13.00000	-3.1.1872	12.566	-0.69131	-11.851	35.043E-6
19.00000	32.00000	13.00000	-3.1525	12.566	-0.60918	-11.191	34.268E-6
20.00000	32.00000	13.00000	-3.1095	12.566	-0.52003	-10.484	33.483E-6
21.00000	32.00000	13.00000	-3.0584	12.566	-0.43064	-9.7603	32.633E-6
22.00000	32.00000	13.00000	-2.9996	12.566	-0.34775	-9.0491	31.660E-6
23.00000	32.00000	13.00000	-2.9330	12.566	-0.27600	-8.3719	30.539E-6
24.00000	32.00000	13.00000	-2.8583	12.566	-0.21711	-7.7420	29.281E-6
25.00000	32.00000	13.00000	-2.7750	12.566	-0.17051	-7.1642	27.925E-6
26.00000	32.00000	13.00000	-2.6825	12.566	-0.13441	-6.6366	26.511E-6
27.00000	32.00000	13.00000	-2.5798	12.566	-0.10672	-6.1535	25.070E-6
28.00000	32.00000	13.00000	-2.4662	12.566	-0.08515	-5.7073	23.619E-6
29.00000	32.00000	13.00000	-2.3411	12.566	-0.069187	-5.2897	22.166E-6
30.00000	32.00000	13.00000	-2.2041	12.566	-0.056491	-4.8931	20.709E-6
31.00000	32.00000	13.00000	-2.0559	12.566	-0.046484	-4.5112	19.245E-6
32.00000	32.00000	13.00000	-1.8978	12.566	-0.038471	-4.1403	17.777E-6
33.00000	32.00000	13.00000	-1.7323	12.566	-0.031954	-3.7793	16.314E-6
34.00000	32.00000	13.00000	-1.5633	12.566	-0.026591	-3.4314	14.878E-6
35.00000	32.00000	13.00000	-1.3952	12.566	-0.022160	-3.1011	13.497E-6
36.00000	32.00000	13.00000	-1.2322	12.566	-0.018507	-2.7942	12.201E-6
37.00000	32.00000	13.00000	-1.0783	12.566	-0.015511	-2.5146	11.011E-6
38.00000	32.00000	13.00000	-0.93582	12.566	-0.013062	-2.2639	9.9300E-6
39.00000	32.00000	13.00000	-0.80634	12.566	-0.011062	-2.0415	8.9813E-6
40.00000	32.00000	13.00000	-0.69023	12.566	-0.0094237	-1.8453	8.1340E-6
41.00000	32.00000	13.00000	-0.58718	12.566	-0.0080741	-1.6726	7.3856E-6
42.00000	32.00000	13.00000	-0.49646	12.566	-0.0069555	-1.5206	6.7247E-6
43.00000	32.00000	13.00000	-0.41707	12.566	-0.0060222	-1.3867	6.1400E-6
44.00000	32.00000	13.00000	-0.34794	12.566	-0.0052390	-1.2677	5.6215E-6
45.00000	32.00000	13.00000	-0.28796	12.566	-0.0045772	-1.1623	5.1603E-6
46.00000	32.00000	13.00000	-0.23610	12.566	-0.0040151	-1.0684	4.7487E-6
47.00000	32.00000	13.00000	-0.19137	12.566	-0.0035350	-0.98451	4.3804E-6
48.00000	32.00000	13.00000	-0.15289	12.566	-0.0031232	-0.90929	4.0495E-6
49.00000	32.00000	13.00000	-0.11985	12.566	-0.0027681	-0.84162	3.7515E-6
50.00000	32.00000	13.00000	-0.091559	12.566	-0.0024609	-0.78058	3.4823E-6
51.00000	32.00000	13.00000	-0.067381	12.566	-0.0021939	-0.72535	3.2385E-6
52.00000	32.00000	13.00000	-0.046770	12.566	-0.0019612	-0.67525	3.0170E-6
53.00000	32.00000	13.00000	-0.029244	12.566	-0.0017576	-0.62966	2.8154E-6
54.00000	32.00000	13.00000	-0.014385	12.566	-0.0015789	-0.58814	2.6313E-6
55.00000	32.00000	13.00000	-0.0018282	12.566	-0.0014216	-0.55019	2.4631E-6
-25.00000	33.00000	13.00000	0.015140	12.566	-0.0040901	-0.76569	3.3702E-6
-24.00000	33.00000	13.00000	0.0073564	12.566	-0.0046452	-0.82176	3.6100E-6
-23.00000	33.00000	13.00000	-0.0018165	12.566	-0.0052930	-0.88328	3.8721E-6
-22.00000	33.00000	13.00000	-0.012649	12.566	-0.0060522	-0.95092	4.1589E-6
-21.00000	33.00000	13.00000	-0.025322	12.566	-0.0069457	-1.0254	4.4733E-6
-20.00000	33.00000	13.00000	-0.040130	12.566	-0.0080024	-1.1077	4.8185E-6
-19.00000	33.00000	13.00000	-0.057383	12.566	-0.0092582	-1.1987	5.1980E-6
-18.00000	33.00000	13.00000	-0.077434	12.566	-0.0107580	-1.2994	5.6160E-6
-17.00000	33.00000	13.00000	-0.10068	12.566	-0.012560	-1.4118	6.0769E-6
-16.00000	33.00000	13.00000	-0.12758	12.566	-0.014736	-1.5368	6.5859E-6</



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

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Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
2.00000	33.00000	13.00000	-1.8055	12.566	-0.43640	-8.7522	27.892E-6
3.00000	33.00000	13.00000	-1.9391	12.566	-0.47881	-9.3151	29.294E-6
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6.00000	33.00000	13.00000	-2.2763	12.566	-0.56485	-10.606	32.817E-6
7.00000	33.00000	13.00000	-2.3644	12.566	-0.58089	-10.892	33.678E-6
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9.00000	33.00000	13.00000	-2.5038	12.566	-0.59807	-11.251	34.841E-6
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11.00000	33.00000	13.00000	-2.5972	12.566	-0.59818	-11.338	35.235E-6
12.00000	33.00000	13.00000	-2.6281	12.566	-0.59198	-11.282	35.150E-6
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16.00000	33.00000	13.00000	-2.6579	12.566	-0.51524	-10.393	33.200E-6
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25.00000	33.00000	13.00000	-2.2742	12.566	-0.12887	-6.0442	23.969E-6
26.00000	33.00000	13.00000	-2.1960	12.566	-0.10417	-5.6200	22.713E-6
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-5.00000	34.00000	13.00000	-0.71940	12.566	-0.096706	-3.9917	15.513E-6
-4.00000	34.00000	13.00000	-0.81738	12.566	-0.11731	-4.3993	16.800E-6
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3.00000	34.00000	13.00000	-1.5973	12.566	-0.31676	-7.6358	26.080E-6
4.00000	34.00000	13.00000	-1.6972	12.566	-0.33951	-8.0183	27.198E-6
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6.00000	34.00000	13.00000	-1.8711	12.566	-0.37309	-8.6319	29.072E-6
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10.00000	34.00000	13.00000	-2.1044	12.566	-0.39786	-9.2098	31.024E-6
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12.00000	34.00000	13.00000	-2.1659	12.566	-0.39201	-9.1782	31.040E-6
13.00000	34.00000	13.00000	-2.1841	12.566	-0.38444	-9.0838	30.817E-6
14.00000	34.00000	13.00000	-2.1944	12.566	-0.37344	-8.9375	30.452E-6
15.00000	34.00000	13.00000	-2.1972	12.566	-0.35875	-8.7402	29.956E-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mm]	Calc Level [mm]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
51.00000	34.00000	13.00000	-0.043149	12.566	-0.0019862	-0.67259	3.0042E-6
52.00000	34.00000	13.00000	-0.026768	12.566	-0.0017830	-0.62852	2.8094E-6
53.00000	34.00000	13.00000	-0.012765	12.566	-0.0016042	-0.58816	2.6308E-6
54.00000	34.00000	13.00000	-839.95E-6	12.566	-0.0014465	-0.55114	2.4667E-6
55.00000	34.00000	13.00000	0.0092720	12.566	-0.0013069	-0.51713	2.3158E-6
-25.00000	35.00000	13.00000	0.021935	12.566	-0.0035944	-0.71084	3.1343E-6
-24.00000	35.00000	13.00000	0.015608	12.566	-0.0040566	-0.76028	3.3465E-6
-23.00000	35.00000	13.00000	0.0081429	12.566	-0.0045909	-0.81419	3.5770E-6
-22.00000	35.00000	13.00000	-619.73E-6	12.566	-0.0052108	-0.87307	3.8279E-6
-21.00000	35.00000	13.00000	-0.010860	12.566	-0.0059324	-0.93748	4.1011E-6
-20.00000	35.00000	13.00000	-0.022782	12.566	-0.0067754	-1.0080	4.3989E-6
-19.00000	35.00000	13.00000	-0.036610	12.566	-0.0077638	-1.0855	4.7240E-6
-18.00000	35.00000	13.00000	-0.052598	12.566	-0.0089274	-1.1706	5.0792E-6
-17.00000	35.00000	13.00000	-0.071025	12.566	-0.010302	-1.2642	5.4675E-6
-16.00000	35.00000	13.00000	-0.092198	12.566	-0.011933	-1.3674	5.8924E-6
-15.00000	35.00000	13.00000	-0.11645	12.566	-0.013876	-1.4813	6.3574E-6
-14.00000	35.00000	13.00000	-0.14415	12.566	-0.016198	-1.6072	6.8666E-6
-13.00000	35.00000	13.00000	-0.17569	12.566	-0.018984	-1.7465	7.4240E-6
-12.00000	35.00000	13.00000	-0.21146	12.566	-0.022338	-1.9007	8.0337E-6
-11.00000	35.00000	13.00000	-0.25188	12.566	-0.026385	-2.0715	8.6998E-6
-10.00000	35.00000	13.00000	-0.297735	12.566	-0.031270	-2.2606	9.4262E-6
-9.00000	35.00000	13.00000	-0.34826	12.566	-0.037196	-2.4698	10.216E-6
-8.00000	35.00000	13.00000	-0.40493	12.566	-0.044345	-2.7008	11.071E-6
-7.00000	35.00000	13.00000	-0.46759	12.566	-0.052948	-2.9549	11.992E-6
-6.00000	35.00000	13.00000	-0.53633	12.566	-0.063231	-3.2332	12.977E-6
-5.00000	35.00000	13.00000	-0.61103	12.566	-0.075390	-3.5357	14.021E-6
-4.00000	35.00000	13.00000	-0.69133	12.566	-0.089542	-3.8614	15.116E-6
-3.00000	35.00000	13.00000	-0.77658	12.566	-0.10567	-4.2077	16.251E-6
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1.00000	35.00000	13.00000	-1.1429	12.566	-0.18225	-5.6842	20.875E-6
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5.00000	35.00000	13.00000	-1.4744	12.566	-0.24564	-6.9193	24.762E-6
6.00000	35.00000	13.00000	-1.5419	12.566	-0.25579	-7.1403	25.490E-6
7.00000	35.00000	13.00000	-1.6020	12.566	-0.26353	-7.3201	26.096E-6
8.00000	35.00000	13.00000	-1.6544	12.566	-0.26895	-7.4577	26.574E-6
9.00000	35.00000	13.00000	-1.6990	12.566	-0.27217	-7.5527	26.918E-6
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13.00000	35.00000	13.00000	-1.8040	12.566	-0.26372	-7.5108	26.958E-6
14.00000	35.00000	13.00000	-1.8131	12.566	-0.25606	-7.3971	26.650E-6
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16.00000	35.00000	13.00000	-1.8123	12.566	-0.23349	-7.0532	25.702E-6
17.00000	35.00000	13.00000	-1.8031	12.566	-0.21862	-6.8281	25.084E-6
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19.00000	35.00000	13.00000	-1.7679	12.566	-0.18304	-6.2925	23.620E-6
20.00000	35.00000	13.00000	-1.7424	12.566	-0.16340	-5.9944	22.787E-6
21.00000	35.00000	13.00000	-1.7119	12.566	-0.14377	-5.6853	21.930E-6
22.00000	35.00000	13.00000	-1.6763	12.566	-0.12469	-5.3723	21.027E-6
23.00000	35.00000	13.00000	-1.6359	12.566	-0.10690	-5.0618	20.101E-6
24.00000	35.00000	13.00000	-1.5905	12.566	-0.090853	-4.7585	19.159E-6
25.00000	35.00000	13.00000	-1.5401	12.566	-0.076757	-4.4660	18.214E-6
26.00000	35.00000	13.00000	-1.4847	12.566	-0.064634	-4.1859	17.271E-6
27.00000	35.00000	13.00000	-1.4243	12.566	-0.054363	-3.9191	16.338E-6
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38.00000	35.00000	13.00000	-0.55896	12.566	-0.0094338	-1.7193	7.5606E-6
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43.00000	35.00000	13.00000	-0.26136	12.566	-0.0047925	-1.1511	5.1036E-6
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47.00000	35.00000	13.00000	-0.11678	12.566	-0.0029440	-0.85326	3.7997E-6
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55.00000	35.00000	13.00000	0.014374	12.566	-0.0012503	-0.50072	2.2428E-6
-25.00000	36.00000	13.00000	0.025066	12.566	-0.0033605	-0.68394	3.0184E-6
-24.00000	36.00000	13.00000	0.019409	12.566	-0.0037804	-0.73024	3.2174E-6
-23.00000	36.00000	13.00000	0.012738	12.566	-0.0042635	-0.78058	3.4331E-6
-22.00000	36.00000	13.00000	0.0049116	12.566	-0.0048211	-0.83537	3.6671E-6
-21.00000	36.00000	13.00000	-0.0042233	12.566	-0.0054668	-0.89503	3.9211E-6
-20.00000	36.00000	13.00000	-0.014840	12.566	-0.0062160	-0.96028	4.1970E-6
-19.00000	36.00000	13.00000	-0.027129	12.566	-0.0070888	-1.0315	4.4971E-6
-18.00000	36.00000	13.00000	-0.041302	12.566	-0.0081087	-1.1094	4.8235E-6
-17.00000	36.00000	13.00000	-0.057590	12.566	-0.0093041	-1.1948	5.1790E-6
-16.00000	36.00000	13.00000	-0.076245	12.566	-0.010710	-1.2883	5.5661E-6
-15.00000	36.00000	13.00000	-0.097537	12.566	-0.012367	-1.3910	5.9877E-6
-14.00000	36.00000	13.00000	-0.12175	12.566	-0.014327	-1.5037	6.4469E-6
-13.00000	36.00000	13.00000	-0.14920	12.566	-0.016650	-1.6276	6.9468E-6
-12.00000	36.00000	13.00000	-0.18017	12.566	-0.019408	-1.7637	7.4903E-6
-11.00000	36.00000	13.00000	-0.21498	12.566	-0.022688	-1.9139	8.0804E-6
-10.00000	36.00000	13.00000	-0.25392	12.566	-0.026588	-2.0771	8.7196E-6
-9.00000	36.00000	13.00000	-0.29724	12.566	-0.031221	-2.2567	9.4099E-6
-8.00000	36.00000	13.00000	-0.34514	12.566	-0.036707	-2.4529	10.152E-6
-7.00000	36.00000	13.00000	-0.39773	12.566	-0.043172	-2.6663	10.946E-6
-6.00000	36.00000	13.00000	-0.45500	12.566	-0.050728	-2.8972	11.790E-6
-5.00000	36.00000	13.00000	-0.51680	12.566	-0.059458	-3.1451	12.679E-6
-4.00000	36.00000	13.00000	-0.58278	12.566	-0.069393	-3.4089	13.608E-6
-3.00000	36.00000	13.00000	-0.65237	12.566	-0.080475	-3.6861	14.566E-6
-2.00000	36.00000	13.00000	-0.72480	12.566	-0.092542	-3.9734	15.543E-6
-1.00000	36.00000	13.00000	-0.79908	12.566	-0.10533	-4.2668	16.525E-6
0.00000	36.00000	13.00000	-0.87405	12.566	-0.11840	-4.5585	17.498E-6
1.00000	36.00000	13.00000	-0.94846	12.566	-0.13135	-4.8448	18.447E-6
2.00000	36.00000	13.00000	-1.02211	12.566	-0.14373	-5.1186	19.354E-6
3.00000	36.00000	13.00000	-1.0907	12.566	-0.15512	-5.3743	20.206E-6
4.00							

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Name	Location		Displacement		Stresses			
	X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
	19.00000	36.00000	13.00000	-1.4623	12.566	-0.13191	-5.3435	20.699E-6
	20.00000	36.00000	13.00000	-1.4409	12.566	-0.11904	-5.1109	19.993E-6
	21.00000	36.00000	13.00000	-1.4151	12.566	-0.10602	-4.8688	19.247E-6
	22.00000	36.00000	13.00000	-1.3851	12.566	-0.09325	-4.6219	18.471E-6
	23.00000	36.00000	13.00000	-1.3509	12.566	-0.08131	-4.3748	17.674E-6
	24.00000	36.00000	13.00000	-1.3126	12.566	-0.07028	-4.1309	16.867E-6
	25.00000	36.00000	13.00000	-1.2702	12.566	-0.06038	-3.8931	16.055E-6
	26.00000	36.00000	13.00000	-1.2237	12.566	-0.05168	-3.6632	15.247E-6
	27.00000	36.00000	13.00000	-1.1731	12.566	-0.04413	-3.4420	14.447E-6
	28.00000	36.00000	13.00000	-1.1186	12.566	-0.03764	-3.2299	13.659E-6
	29.00000	36.00000	13.00000	-1.0604	12.566	-0.03215	-3.0269	12.887E-6
	30.00000	36.00000	13.00000	-0.99865	12.566	-0.02749	-2.8326	12.131E-6
	31.00000	36.00000	13.00000	-0.93397	12.566	-0.02354	-2.6468	11.393E-6
	32.00000	36.00000	13.00000	-0.86698	12.566	-0.02020	-2.4692	10.677E-6
	33.00000	36.00000	13.00000	-0.79849	12.566	-0.01738	-2.2998	9.9833E-6
	34.00000	36.00000	13.00000	-0.72943	12.566	-0.01490	-2.1386	9.3156E-6
	35.00000	36.00000	13.00000	-0.66079	12.566	-0.01295	-1.9859	8.6767E-6
	36.00000	36.00000	13.00000	-0.59359	12.566	-0.01122	-1.8419	8.0695E-6
	37.00000	36.00000	13.00000	-0.52872	12.566	-0.00975	-1.7070	7.4962E-6
	38.00000	36.00000	13.00000	-0.46698	12.566	-0.00849	-1.5812	6.9586E-6
	39.00000	36.00000	13.00000	-0.40894	12.566	-0.00741	-1.4646	6.4574E-6
	40.00000	36.00000	13.00000	-0.35502	12.566	-0.00649	-1.3568	5.9923E-6
	41.00000	36.00000	13.00000	-0.30545	12.566	-0.00570	-1.2575	5.5625E-6
	42.00000	36.00000	13.00000	-0.26029	12.566	-0.00501	-1.1663	5.1665E-6
	43.00000	36.00000	13.00000	-0.21947	12.566	-0.00443	-1.0827	4.8023E-6
	44.00000	36.00000	13.00000	-0.18285	12.566	-0.00392	-1.0061	4.4678E-6
	45.00000	36.00000	13.00000	-0.15020	12.566	-0.00348	-0.9358	4.1608E-6
	46.00000	36.00000	13.00000	-0.12125	12.566	-0.00309	-0.8712	3.8790E-6
	47.00000	36.00000	13.00000	-0.09571	12.566	-0.00276	-0.8127	3.6203E-6
	48.00000	36.00000	13.00000	-0.07329	12.566	-0.00246	-0.7582	3.3827E-6
	49.00000	36.00000	13.00000	-0.05370	12.566	-0.00221	-0.7091	3.1643E-6
	50.00000	36.00000	13.00000	-0.03653	12.566	-0.00198	-0.6631	2.9634E-6
	51.00000	36.00000	13.00000	-0.02187	12.566	-0.00178	-0.6213	2.7784E-6
	52.00000	36.00000	13.00000	-0.00912	12.566	-0.00161	-0.5831	2.6078E-6
	53.00000	36.00000	13.00000	0.00182	12.566	-0.00145	-0.5476	2.4504E-6
	54.00000	36.00000	13.00000	0.01118	12.566	-0.00131	-0.5148	2.3050E-6
	55.00000	36.00000	13.00000	0.01914	12.566	-0.00119	-0.4847	2.1704E-6
	-25.00000	37.00000	13.00000	0.02800	12.566	-0.00313	-0.6573	2.9043E-6
	-24.00000	37.00000	13.00000	0.02297	12.566	-0.00351	-0.7008	3.0908E-6
	-23.00000	37.00000	13.00000	0.01704	12.566	-0.00393	-0.7477	3.2923E-6
	-22.00000	37.00000	13.00000	0.01092	12.566	-0.00445	-0.7986	3.5102E-6
	-21.00000	37.00000	13.00000	0.00196	12.566	-0.00502	-0.8536	3.7459E-6
	-20.00000	37.00000	13.00000	-0.00742	12.566	-0.00569	-0.9108	4.0012E-6
	-19.00000	37.00000	13.00000	-0.01828	12.566	-0.00646	-0.9795	4.2777E-6
	-18.00000	37.00000	13.00000	-0.03079	12.566	-0.00735	-1.0508	4.5774E-6
	-17.00000	37.00000	13.00000	-0.04512	12.566	-0.00831	-1.1284	4.9023E-6
	-16.00000	37.00000	13.00000	-0.06149	12.566	-0.00959	-1.2131	5.2545E-6
	-15.00000	37.00000	13.00000	-0.08010	12.566	-0.01101	-1.3056	5.6363E-6
	-14.00000	37.00000	13.00000	-0.10119	12.566	-0.01263	-1.4065	6.0500E-6
	-13.00000	37.00000	13.00000	-0.12498	12.566	-0.01459	-1.5165	6.4978E-6
	-12.00000	37.00000	13.00000	-0.15171	12.566	-0.01687	-1.6366	6.9820E-6
	-11.00000	37.00000	13.00000	-0.18160	12.566	-0.01952	-1.7675	7.5044E-6
	-10.00000	37.00000	13.00000	-0.21485	12.566	-0.02264	-1.9099	8.0668E-6
	-9.00000	37.00000	13.00000	-0.25163	12.566	-0.02628	-2.0644	8.6701E-6
	-8.00000	37.00000	13.00000	-0.29205	12.566	-0.03052	-2.2315	9.3146E-6
	-7.00000	37.00000	13.00000	-0.33616	12.566	-0.03542	-2.4116	9.9965E-6
	-6.00000	37.00000	13.00000	-0.38389	12.566	-0.04103	-2.6043	10.723E-6
	-5.00000	37.00000	13.00000	-0.43508	12.566	-0.04741	-2.8092	11.480E-6
	-4.00000	37.00000	13.00000	-0.48940	12.566	-0.05452	-3.0249	12.267E-6
	-3.00000	37.00000	13.00000	-0.54640	12.566	-0.06232	-3.2494	13.075E-6
	-2.00000	37.00000	13.00000	-0.60545	12.566	-0.07086	-3.4802	13.896E-6
	-1.00000	37.00000	13.00000	-0.66580	12.566	-0.07943	-3.7136	14.719E-6
	0.00000	37.00000	13.00000	-0.72659	12.566	-0.08836	-3.9458	15.532E-6
	1.00000	37.00000	13.00000	-0.78688	12.566	-0.09716	-4.1724	16.322E-6
	2.00000	37.00000	13.00000	-0.84576	12.566	-0.10559	-4.3891	17.078E-6
	3.00000	37.00000	13.00000	-0.90234	12.566	-0.11339	-4.5917	17.786E-6
	4.00000	37.00000	13.00000	-0.95584	12.566	-0.12036	-4.7765	18.436E-6
	5.00000	37.00000	13.00000	-1.0056	12.566	-0.12638	-4.9406	19.018E-6
	6.00000	37.00000	13.00000	-1.0511	12.566	-0.13135	-5.0815	19.523E-6
	7.00000	37.00000	13.00000	-1.0920	12.566	-0.13524	-5.1976	19.945E-6
	8.00000	37.00000	13.00000	-1.1281	12.566	-0.13801	-5.2876	20.279E-6
	9.00000	37.00000	13.00000	-1.1592	12.566	-0.13968	-5.3509	20.521E-6
	10.00000	37.00000	13.00000	-1.1852	12.566	-0.14024	-5.3872	20.670E-6
	11.00000	37.00000	13.00000	-1.2063	12.566	-0.13971	-5.3963	20.726E-6
	12.00000	37.00000	13.00000	-1.2225	12.566	-0.13808	-5.3785	20.690E-6
	13.00000	37.00000	13.00000	-1.2339	12.566	-0.13535	-5.3343	20.563E-6
	14.00000	37.00000	13.00000	-1.2406	12.566	-0.13151	-5.2643	20.350E-6
	15.00000	37.00000	13.00000	-1.2428	12.566	-0.12659	-5.1699	20.055E-6
	16.00000	37.00000	13.00000	-1.2407	12.566	-0.12061	-5.0524	19.684E-6
	17.00000	37.00000	13.00000	-1.2344	12.566	-0.11369	-4.9140	19.244E-6
	18.00000	37.00000	13.00000	-1.2240	12.566	-0.10594	-4.7573	18.742E-6
	19.00000	37.00000	13.00000	-1.2098	12.566	-0.09752	-4.5852	18.188E-6
	20.00000	37.00000	13.00000	-1.1917	12.566	-0.08824	-4.4011	17.589E-6
	21.00000	37.00000	13.00000	-1.1700	12.566	-0.07962	-4.2086	16.956E-6
	22.00000	37.00000	13.00000	-1.1447	12.566	-0.07125	-4.0112	16.296E-6
	23.00000	37.00000	13.00000	-1.1158	12.566	-0.06292	-3.8121	15.618E-6
	24.00000	37.00000	13.00000	-1.0836	12.566	-0.05514	-3.6140	14.929E-6
	25.00000	37.00000	13.00000	-1.0479	12.566	-0.04806	-3.4190	14.236E-6
	26.00000	37.00000	13.00000	-1.0089	12.566	-0.04171	-3.2289	13.544E-6
	27.00000	37.00000	13.00000	-0.9667	12.566	-0.03609	-3.0444	12.859E-6
	28.00000	37.00000	13.00000	-0.9213	12.566	-0.03119	-2.8664	12.183E-6
	29.00000	37.00000	13.00000	-0.8730	12.566	-0.02694	-2.6950	11.520E-6
	30.00000	37.00000	13.00000	-0.8222	12.566	-0.02321	-2.5303	10.871E-6
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Total Heave

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Name	Location			Displacement Z [mm]	Stresses			
	X [m]	Y [m]	Z[Level] [mOD]		Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	-13.00000	38.00000	13.00000	-0.10299	12.566	-0.012802	-1.4132	6.0769E-6
	-12.00000	38.00000	13.00000	-0.12598	12.566	-0.014670	-1.5192	6.5080E-6
	-11.00000	38.00000	13.00000	-0.15157	12.566	-0.016832	-1.6339	6.9705E-6
	-10.00000	38.00000	13.00000	-0.17990	12.566	-0.019330	-1.7577	7.4654E-6
	-9.00000	38.00000	13.00000	-0.21107	12.566	-0.022205	-1.8910	7.9930E-6
	-8.00000	38.00000	13.00000	-0.24514	12.566	-0.025500	-2.0340	8.5532E-6
	-7.00000	38.00000	13.00000	-0.28211	12.566	-0.029250	-2.1866	9.1447E-6
	-6.00000	38.00000	13.00000	-0.32190	12.566	-0.033480	-2.3485	9.7655E-6
	-5.00000	38.00000	13.00000	-0.36433	12.566	-0.038196	-2.5190	10.412E-6
	-4.00000	38.00000	13.00000	-0.40915	12.566	-0.043383	-2.6969	11.080E-6
	-3.00000	38.00000	13.00000	-0.45595	12.566	-0.048989	-2.8807	11.763E-6
	-2.00000	38.00000	13.00000	-0.50426	12.566	-0.054933	-3.0682	12.453E-6
	-1.00000	38.00000	13.00000	-0.55349	12.566	-0.061094	-3.2568	13.143E-6
	0.00000	38.00000	13.00000	-0.60299	12.566	-0.067326	-3.4436	13.822E-6
	1.00000	38.00000	13.00000	-0.65204	12.566	-0.073463	-3.6254	14.481E-6
	2.00000	38.00000	13.00000	-0.69997	12.566	-0.079339	-3.7991	15.111E-6
	3.00000	38.00000	13.00000	-0.74609	12.566	-0.084801	-3.9615	15.700E-6
	4.00000	38.00000	13.00000	-0.78980	12.566	-0.089716	-4.1100	16.241E-6
	5.00000	38.00000	13.00000	-0.83058	12.566	-0.093985	-4.2421	16.726E-6
	6.00000	38.00000	13.00000	-0.86801	12.566	-0.097539	-4.3561	17.147E-6
	7.00000	38.00000	13.00000	-0.90178	12.566	-0.100333	-4.4503	17.499E-6
	8.00000	38.00000	13.00000	-0.93167	12.566	-0.102348	-4.5238	17.779E-6
	9.00000	38.00000	13.00000	-0.95753	12.566	-0.103555	-4.5759	17.982E-6
	10.00000	38.00000	13.00000	-0.97930	12.566	-0.103977	-4.6062	18.109E-6
	11.00000	38.00000	13.00000	-0.99698	12.566	-0.103588	-4.6146	18.158E-6
	12.00000	38.00000	13.00000	-1.01016	12.566	-0.101244	-4.6102	18.129E-6
	13.00000	38.00000	13.00000	-1.02033	12.566	-0.100422	-4.5665	18.025E-6
	14.00000	38.00000	13.00000	-1.02601	12.566	-0.097660	-4.5112	17.849E-6
	15.00000	38.00000	13.00000	-1.02800	12.566	-0.094140	-4.4361	17.604E-6
	16.00000	38.00000	13.00000	-1.02633	12.566	-0.089906	-4.3426	17.294E-6
	17.00000	38.00000	13.00000	-1.02210	12.566	-0.085020	-4.2320	16.926E-6
	18.00000	38.00000	13.00000	-1.01233	12.566	-0.079603	-4.1073	16.505E-6
	19.00000	38.00000	13.00000	-1.00033	12.566	-0.073764	-3.9698	16.039E-6
	20.00000	38.00000	13.00000	-0.98514	12.566	-0.067663	-3.8223	15.535E-6
	21.00000	38.00000	13.00000	-0.96683	12.566	-0.061466	-3.6674	15.000E-6
	22.00000	38.00000	13.00000	-0.94549	12.566	-0.055336	-3.5077	14.441E-6
	23.00000	38.00000	13.00000	-0.92120	12.566	-0.049420	-3.3456	13.865E-6
	24.00000	38.00000	13.00000	-0.89404	12.566	-0.043836	-3.1831	13.278E-6
	25.00000	38.00000	13.00000	-0.86408	12.566	-0.038667	-3.0220	12.687E-6
	26.00000	38.00000	13.00000	-0.83141	12.566	-0.033961	-2.8637	12.095E-6
	27.00000	38.00000	13.00000	-0.79622	12.566	-0.029736	-2.7091	11.507E-6
	28.00000	38.00000	13.00000	-0.75838	12.566	-0.025984	-2.5589	10.927E-6
	29.00000	38.00000	13.00000	-0.71837	12.566	-0.022681	-2.4135	10.356E-6
	30.00000	38.00000	13.00000	-0.67636	12.566	-0.019791	-2.2732	9.7967E-6
	31.00000	38.00000	13.00000	-0.63269	12.566	-0.017273	-2.1381	9.2512E-6
	32.00000	38.00000	13.00000	-0.58778	12.566	-0.015087	-2.0084	8.7212E-6
	33.00000	38.00000	13.00000	-0.54209	12.566	-0.013191	-1.8842	8.2080E-6
	34.00000	38.00000	13.00000	-0.49615	12.566	-0.011548	-1.7656	7.7134E-6
	35.00000	38.00000	13.00000	-0.45052	12.566	-0.010125	-1.6527	7.2388E-6
	36.00000	38.00000	13.00000	-0.40573	12.566	-0.0088915	-1.5456	6.7855E-6
	37.00000	38.00000	13.00000	-0.36231	12.566	-0.0078219	-1.4444	6.3547E-6
	38.00000	38.00000	13.00000	-0.32068	12.566	-0.0068936	-1.3492	5.9472E-6
	39.00000	38.00000	13.00000	-0.28122	12.566	-0.0060871	-1.2600	5.5633E-6
	40.00000	38.00000	13.00000	-0.24420	12.566	-0.0053856	-1.1765	5.2030E-6
	41.00000	38.00000	13.00000	-0.20980	12.566	-0.0047746	-1.0988	4.8661E-6
	42.00000	38.00000	13.00000	-0.17811	12.566	-0.0042416	-1.0265	4.5518E-6
	43.00000	38.00000	13.00000	-0.14916	12.566	-0.0037758	-0.9593	4.2593E-6
	44.00000	38.00000	13.00000	-0.12290	12.566	-0.0033680	-0.89712	3.9875E-6
	45.00000	38.00000	13.00000	-0.099251	12.566	-0.0030104	-0.83949	3.7352E-6
	46.00000	38.00000	13.00000	-0.078077	12.566	-0.0026962	-0.78616	3.5013E-6
	47.00000	38.00000	13.00000	-0.059231	12.566	-0.0024195	-0.73680	3.2844E-6
	48.00000	38.00000	13.00000	-0.042549	12.566	-0.0021754	-0.69112	3.0833E-6
	49.00000	38.00000	13.00000	-0.027860	12.566	-0.0019596	-0.64884	2.8970E-6
	50.00000	38.00000	13.00000	-0.014991	12.566	-0.0017685	-0.60969	2.7241E-6
	51.00000	38.00000	13.00000	-0.0037760	12.566	-0.0015988	-0.57341	2.5638E-6
	52.00000	38.00000	13.00000	0.0059478	12.566	-0.0014479	-0.53978	2.4150E-6
	53.00000	38.00000	13.00000	0.014332	12.566	-0.0013135	-0.50857	2.2768E-6
	54.00000	38.00000	13.00000	0.021519	12.566	-0.0011935	-0.47960	2.1483E-6
	55.00000	38.00000	13.00000	0.027639	12.566	-0.0010862	-0.45268	2.0288E-6
	-25.00000	39.00000	13.00000	0.033242	12.566	-0.0027219	-0.60644	2.6833E-6
	-24.00000	39.00000	13.00000	0.029349	12.566	-0.0030326	-0.64415	2.8464E-6
	-23.00000	39.00000	13.00000	0.024750	12.566	-0.0033849	-0.68478	3.0215E-6
	-22.00000	39.00000	13.00000	0.019357	12.566	-0.0037852	-0.72858	3.2097E-6
	-21.00000	39.00000	13.00000	0.013075	12.566	-0.0042408	-0.77581	3.4121E-6
	-20.00000	39.00000	13.00000	0.0058017	12.566	-0.0047603	-0.82679	3.6297E-6
	-19.00000	39.00000	13.00000	-0.0025758	12.566	-0.0053535	-0.88182	3.8638E-6
	-18.00000	39.00000	13.00000	-0.012177	12.566	-0.0060318	-0.94124	4.1155E-6
	-17.00000	39.00000	13.00000	-0.023128	12.566	-0.0068085	-1.0054	4.3861E-6
	-16.00000	39.00000	13.00000	-0.035561	12.566	-0.0076988	-1.0747	4.6769E-6
	-15.00000	39.00000	13.00000	-0.049613	12.566	-0.0087199	-1.1495	4.9892E-6
	-14.00000	39.00000	13.00000	-0.065422	12.566	-0.0098914	-1.2302	5.3243E-6
	-13.00000	39.00000	13.00000	-0.083122	12.566	-0.011235	-1.3173	5.6834E-6
	-12.00000	39.00000	13.00000	-0.10284	12.566	-0.012775	-1.4109	6.0673E-6
	-11.00000	39.00000	13.00000	-0.12469	12.566	-0.014537	-1.5116	6.4769E-6
	-10.00000	39.00000	13.00000	-0.14877	12.566	-0.016546	-1.6195	6.9127E-6
	-9.00000	39.00000	13.00000	-0.17514	12.566	-0.018829	-1.7348	7.3746E-6
	-8.00000	39.00000	13.00000	-0.20383	12.566	-0.021409	-1.8575	7.8622E-6
	-7.00000	39.00000	13.00000	-0.23480	12.566	-0.024304	-1.9874	8.3740E-6
	-6.00000	39.00000	13.00000	-0.26798	12.566	-0.027524	-2.1241	8.9080E-6
	-5.00000	39.00000	13.00000	-0.30319	12.566	-0.031065	-2.2670	9.4612E-6
	-4.00000	39.00000	13					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	X [m]	Location Y [m]	Displacement Z [Level] [mOD]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
	36.00000	39.00000	13.00000	-0.33296	12.566	-0.0079248	-1.4228
	37.00000	39.00000	13.00000	-0.29726	12.566	-0.0070121	-1.3344
	38.00000	39.00000	13.00000	-0.26295	12.566	-0.0062139	-1.2508
	39.00000	39.00000	13.00000	-0.23031	12.566	-0.0055152	-1.1721
	40.00000	39.00000	13.00000	-0.19959	12.566	-0.0049032	-1.0981
	41.00000	39.00000	13.00000	-0.17091	12.566	-0.0043566	-1.0289
	42.00000	39.00000	13.00000	-0.14439	12.566	-0.0038956	-0.96420
	43.00000	39.00000	13.00000	-0.12005	12.566	-0.0034816	-0.90384
	44.00000	39.00000	13.00000	-0.097875	12.566	-0.0031171	-0.84761
	45.00000	39.00000	13.00000	-0.077816	12.566	-0.0027958	-0.79529
	46.00000	39.00000	13.00000	-0.059784	12.566	-0.0025121	-0.74664
	47.00000	39.00000	13.00000	-0.043673	12.566	-0.0022612	-0.70142
	48.00000	39.00000	13.00000	-0.029362	12.566	-0.0020388	-0.65940
	49.00000	39.00000	13.00000	-0.016720	12.566	-0.0018415	-0.62036
	50.00000	39.00000	13.00000	-0.0056140	12.566	-0.0016660	-0.58407
	51.00000	39.00000	13.00000	0.0040882	12.566	-0.0015097	-0.55033
	52.00000	39.00000	13.00000	0.012516	12.566	-0.0013702	-0.51895
	53.00000	39.00000	13.00000	0.019792	12.566	-0.0012456	-0.48974
	54.00000	39.00000	13.00000	0.026035	12.566	-0.0011340	-0.46255
	55.00000	39.00000	13.00000	0.031351	12.566	-0.0010340	-0.43721
	-25.00000	40.00000	13.00000	0.035431	12.566	-0.0025322	-0.58189
	-24.00000	40.00000	13.00000	0.032151	12.566	-0.0028112	-0.61703
	-23.00000	40.00000	13.00000	0.028140	12.566	-0.0031272	-0.65478
	-22.00000	40.00000	13.00000	0.023433	12.566	-0.0034843	-0.69534
	-21.00000	40.00000	13.00000	0.017950	12.566	-0.0038887	-0.73894
	-20.00000	40.00000	13.00000	0.011604	12.566	-0.0043469	-0.78581
	-19.00000	40.00000	13.00000	0.0043041	12.566	-0.0048669	-0.83622
	-18.00000	40.00000	13.00000	-0.0040492	12.566	-0.0054575	-0.89043
	-17.00000	40.00000	13.00000	-0.013558	12.566	-0.0061289	-0.94872
	-16.00000	40.00000	13.00000	-0.024328	12.566	-0.0068924	-1.0114
	-15.00000	40.00000	13.00000	-0.036468	12.566	-0.0077600	-1.0788
	-14.00000	40.00000	13.00000	-0.050082	12.566	-0.0087482	-1.1509
	-13.00000	40.00000	13.00000	-0.065274	12.566	-0.0098698	-1.2283
	-12.00000	40.00000	13.00000	-0.082137	12.566	-0.011142	-1.3112
	-11.00000	40.00000	13.00000	-0.10075	12.566	-0.012581	-1.3997
	-10.00000	40.00000	13.00000	-0.121118	12.566	-0.014205	-1.4939
	-9.00000	40.00000	13.00000	-0.14346	12.566	-0.016028	-1.5939
	-8.00000	40.00000	13.00000	-0.16758	12.566	-0.018062	-1.6996
	-7.00000	40.00000	13.00000	-0.19352	12.566	-0.020317	-1.8107
	-6.00000	40.00000	13.00000	-0.22118	12.566	-0.022794	-1.9268
	-5.00000	40.00000	13.00000	-0.25042	12.566	-0.025488	-2.0472
	-4.00000	40.00000	13.00000	-0.28105	12.566	-0.028374	-2.1714
	-3.00000	40.00000	13.00000	-0.31282	12.566	-0.031429	-2.2979
	-2.00000	40.00000	13.00000	-0.34540	12.566	-0.034607	-2.4255
	-1.00000	40.00000	13.00000	-0.37845	12.566	-0.037852	-2.5525
	0.00000	40.00000	13.00000	-0.41158	12.566	-0.041101	-2.6778
	1.00000	40.00000	13.00000	-0.44436	12.566	-0.044282	-2.7984
	2.00000	40.00000	13.00000	-0.47640	12.566	-0.047324	-2.9136
	3.00000	40.00000	13.00000	-0.50728	12.566	-0.050159	-3.0213
	4.00000	40.00000	13.00000	-0.53665	12.566	-0.052726	-3.1199
	5.00000	40.00000	13.00000	-0.56416	12.566	-0.054973	-3.2076
	6.00000	40.00000	13.00000	-0.58954	12.566	-0.056860	-3.2841
	7.00000	40.00000	13.00000	-0.61257	12.566	-0.058356	-3.3476
	8.00000	40.00000	13.00000	-0.63307	12.566	-0.059440	-3.3975
	9.00000	40.00000	13.00000	-0.65092	12.566	-0.060099	-3.4333
	10.00000	40.00000	13.00000	-0.66605	12.566	-0.060325	-3.4548
	11.00000	40.00000	13.00000	-0.67840	12.566	-0.060118	-3.4617
	12.00000	40.00000	13.00000	-0.68798	12.566	-0.059477	-3.4541
	13.00000	40.00000	13.00000	-0.69481	12.566	-0.058411	-3.4324
	14.00000	40.00000	13.00000	-0.69892	12.566	-0.056934	-3.3969
	15.00000	40.00000	13.00000	-0.70037	12.566	-0.055067	-3.3489
	16.00000	40.00000	13.00000	-0.69923	12.566	-0.052839	-3.2876
	17.00000	40.00000	13.00000	-0.69557	12.566	-0.050293	-3.2157
	18.00000	40.00000	13.00000	-0.68945	12.566	-0.047477	-3.1338
	19.00000	40.00000	13.00000	-0.68097	12.566	-0.044455	-3.0432
	20.00000	40.00000	13.00000	-0.67019	12.566	-0.041292	-2.9455
	21.00000	40.00000	13.00000	-0.65719	12.566	-0.038061	-2.8420
	22.00000	40.00000	13.00000	-0.64206	12.566	-0.034832	-2.7344
	23.00000	40.00000	13.00000	-0.62486	12.566	-0.031668	-2.6240
	24.00000	40.00000	13.00000	-0.60566	12.566	-0.028625	-2.5120
	25.00000	40.00000	13.00000	-0.58456	12.566	-0.025748	-2.3997
	26.00000	40.00000	13.00000	-0.56165	12.566	-0.023059	-2.2879
	27.00000	40.00000	13.00000	-0.53704	12.566	-0.020585	-2.1775
	28.00000	40.00000	13.00000	-0.51087	12.566	-0.018329	-2.0690
	29.00000	40.00000	13.00000	-0.48329	12.566	-0.016291	-1.9631
	30.00000	40.00000	13.00000	-0.45450	12.566	-0.014462	-1.8599
	31.00000	40.00000	13.00000	-0.42474	12.566	-0.012829	-1.7599
	32.00000	40.00000	13.00000	-0.39427	12.566	-0.011378	-1.6633
	33.00000	40.00000	13.00000	-0.36338	12.566	-0.010093	-1.5701
	34.00000	40.00000	13.00000	-0.33238	12.566	-0.008956	-1.4807
	35.00000	40.00000	13.00000	-0.30159	12.566	-0.007953	-1.3959
	36.00000	40.00000	13.00000	-0.27134	12.566	-0.0070693	-1.3133
	37.00000	40.00000	13.00000	-0.24191	12.566	-0.0062898	-1.2356
	38.00000	40.00000	13.00000	-0.21357	12.566	-0.0056028	-1.1619
	39.00000	40.00000	13.00000	-0.18655	12.566	-0.0049973	-1.0921
	40.00000	40.00000	13.00000	-0.16103	12.566	-0.0044634	-1.0264
	41.00000	40.00000	13.00000	-0.13713	12.566	-0.0039922	-0.96454
	42.00000	40.00000	13.00000	-0.11494	12.566	-0.0035761	-0.90648
	43.00000	40.00000	13.00000	-0.094492	12.566	-0.0032083	-0.85208
	44.00000	40.00000	13.00000	-0.075798	12.566	-0.0028828	-0.80118
	45.00000	40.00000	13.00000	-0.058822	12.566	-0.0025942	-0.75362
	46.00000	40.00000	13.00000	-0.043508	12.566	-0.0023385	-0.70919
	47.00000	40.00000	13.00000	-0.029779	12.566	-0.0021112	-0.66774
	48.00000	40.00000	13.00000	-0.017545	12.566	-0.0019089	-0.62907
	49.00000	40.00000	13.00000	-0.0067083	12.566	-0.0017287	-0.59301
	50.00000	40.00000	13.00000	0.002842	12.566	-0.0015678	-0.55937
	51.00000	40.00000	13.00000	0.011187	12.566	-0.0014241	-0.52800
	52.00000	40.00000	13.00000	0.018453	12.566	-0.0012954	-0.49873
	53.00000	40.00000	13.00000	0.024733	12.566	-0.0011800	-0.47141
	54.00000	40.00000	13.00000	0.030121	12.566	-0.0010764	-0.44591
	55.00000	40.00000	13.00000	0.034707	12.566	-0.0009707	-0.42207
	-25.00000	41.00000	13.00000	0.037624	12.566	-0.0023517	-0.55806
	-24.00000	41.00000	13.00000	0.034696	12.566	-0.0026036	-0.59078
	-23.00000	41.00000	13.00000	0.031223	12.566	-0.0028866	-0.62582
	-22.00000	41.00000	13.00000	0.027141	12.566	-0.0032050	-0.66336
	-21.00000	41.00000	13.00000	0.022384	12.566	-0.0035633	-0.70357
	-20.00000	41.00000	13.00000	0.016879	12.566	-0.0039672	-0.74665
	-19.00000	41.00000	13.00000	0.010551	12.566	-0.0044227	-0.79280
	-18.00000	41.00000	13.00000	0.0033181	12.566	-0.0049367	-0.84224
	-17.00000	41.00000	13.00000	-0.0049014	12.566	-0.0055168	-0.89518
	-16.00000	41.00000	13.00000	-0.014192	12.566	-0.0061718	-0.95182
	-15.00000	41.00000	13.00000	-0.024638	12.566	-0.0069105	-1.0124
	-14.00000	41.00000	13.00000	-0.036322	12.566	-0.0077435	-1.0770
	-13.00000	41.00000	13.00000	-0.049319	12.566	-0.0086813	-1.1460
	-12.00000	41.00000	13.00000	-0.063699	12.566	-0.0097349	-1.2194
	-11.00000	41.00000	13.00000	-0.079517	12.566	-0.010915	-1.2973
	-10.00000	41.00000	13.00000	-0.096811	12.566	-0.012233	-1.3798
	-9.00000	41.00000	13.00000	-0.11560	12.566	-0.013696	-1.4668
	-8.00000	41.00000	13.00000	-0.13587	12.566	-0.015312	-1.5581
	-7.00000	41.00000	13.00000	-0.15757	12.566	-0.017083	-1.6536
	-6.00000	41.00000	13.00000	-0.18064	12.566	-0.019000	-1.7528
	-5.00000	41.00000	13.00000	-0.20493	12.566	-0.021078	-1.8550
	-4.00000	41.00000	13.00000	-0.23030	12.566	-0.023277	-1.9597
	-3.00000	41.00000	13.00000	-0.25652	12.566	-0.025583	-2.0658
	-2.00000	41.00000	13.00000	-0.28336	12.566	-0.027964	-2.1724
	-1.00000	41.00000	13.00000				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z[Level] [mOD]	Z [mm]	Calc Level [mOD]	Vert Stress [kN/m²]	Sum Princ [kN/m²]	Vert Strain [-]
4.00000	41.00000	13.00000	-0.44037	12.566	-0.041374	-2.7470	11.363E-6
5.00000	41.00000	13.00000	-0.46301	12.566	-0.043037	-2.8197	11.648E-6
6.00000	41.00000	13.00000	-0.48393	12.566	-0.044437	-2.8828	11.896E-6
7.00000	41.00000	13.00000	-0.50295	12.566	-0.045550	-2.9354	12.105E-6
8.00000	41.00000	13.00000	-0.51992	12.566	-0.046358	-2.9769	12.272E-6
9.00000	41.00000	13.00000	-0.53473	12.566	-0.046850	-3.0068	12.395E-6
10.00000	41.00000	13.00000	-0.54731	12.566	-0.047020	-3.0250	12.472E-6
11.00000	41.00000	13.00000	-0.55760	12.566	-0.046865	-3.0312	12.505E-6
12.00000	41.00000	13.00000	-0.56560	12.566	-0.046387	-3.0255	12.492E-6
13.00000	41.00000	13.00000	-0.57131	12.566	-0.045594	-3.0081	12.435E-6
14.00000	41.00000	13.00000	-0.57476	12.566	-0.044496	-2.9794	12.334E-6
15.00000	41.00000	13.00000	-0.57598	12.566	-0.043111	-2.9400	12.193E-6
16.00000	41.00000	13.00000	-0.57503	12.566	-0.041463	-2.8904	12.012E-6
17.00000	41.00000	13.00000	-0.57194	12.566	-0.039582	-2.8316	11.796E-6
18.00000	41.00000	13.00000	-0.56680	12.566	-0.037504	-2.7644	11.547E-6
19.00000	41.00000	13.00000	-0.55966	12.566	-0.035274	-2.6899	11.269E-6
20.00000	41.00000	13.00000	-0.55059	12.566	-0.032936	-2.6093	10.967E-6
21.00000	41.00000	13.00000	-0.53965	12.566	-0.030541	-2.5237	10.643E-6
22.00000	41.00000	13.00000	-0.52691	12.566	-0.028136	-2.4342	10.301E-6
23.00000	41.00000	13.00000	-0.51245	12.566	-0.025766	-2.3420	9.946E-6
24.00000	41.00000	13.00000	-0.49603	12.566	-0.023468	-2.2481	9.5824E-6
25.00000	41.00000	13.00000	-0.47864	12.566	-0.021275	-2.1534	9.2116E-6
26.00000	41.00000	13.00000	-0.45947	12.566	-0.019209	-2.0587	8.8373E-6
27.00000	41.00000	13.00000	-0.43892	12.566	-0.017287	-1.9647	8.4623E-6
28.00000	41.00000	13.00000	-0.41711	12.566	-0.015515	-1.8719	8.0888E-6
29.00000	41.00000	13.00000	-0.39418	12.566	-0.013897	-1.7809	7.7190E-6
30.00000	41.00000	13.00000	-0.37031	12.566	-0.012429	-1.6919	7.3545E-6
31.00000	41.00000	13.00000	-0.34568	12.566	-0.011106	-1.6054	6.9969E-6
32.00000	41.00000	13.00000	-0.32050	12.566	-0.0099173	-1.5214	6.6475E-6
33.00000	41.00000	13.00000	-0.29501	12.566	-0.0088544	-1.4402	6.3075E-6
34.00000	41.00000	13.00000	-0.26945	12.566	-0.0079062	-1.3620	5.9778E-6
35.00000	41.00000	13.00000	-0.24408	12.566	-0.0070621	-1.2870	5.6595E-6
36.00000	41.00000	13.00000	-0.21912	12.566	-0.0063117	-1.2151	5.3531E-6
37.00000	41.00000	13.00000	-0.19482	12.566	-0.0056453	-1.1465	5.0593E-6
38.00000	41.00000	13.00000	-0.17138	12.566	-0.0050537	-1.0812	4.7785E-6
39.00000	41.00000	13.00000	-0.14898	12.566	-0.0045287	-1.0192	4.5110E-6
40.00000	41.00000	13.00000	-0.12777	12.566	-0.0040627	-0.96054	4.2569E-6
41.00000	41.00000	13.00000	-0.10785	12.566	-0.0036491	-0.90513	4.0163E-6
42.00000	41.00000	13.00000	-0.089292	12.566	-0.0032816	-0.85291	3.7888E-6
43.00000	41.00000	13.00000	-0.072141	12.566	-0.0029551	-0.80378	3.5743E-6
44.00000	41.00000	13.00000	-0.056407	12.566	-0.0026645	-0.75762	3.3724E-6
45.00000	41.00000	13.00000	-0.042073	12.566	-0.0024059	-0.71432	3.1825E-6
46.00000	41.00000	13.00000	-0.029101	12.566	-0.0021753	-0.67372	3.0042E-6
47.00000	41.00000	13.00000	-0.017438	12.566	-0.0019696	-0.63570	2.8369E-6
48.00000	41.00000	13.00000	-0.0070184	12.566	-0.0017858	-0.60010	2.6801E-6
49.00000	41.00000	13.00000	0.0022329	12.566	-0.0016214	-0.56679	2.5311E-6
50.00000	41.00000	13.00000	0.010395	12.566	-0.0014741	-0.53562	2.3954E-6
51.00000	41.00000	13.00000	0.017551	12.566	-0.0013420	-0.50645	2.2663E-6
52.00000	41.00000	13.00000	0.023781	12.566	-0.0012234	-0.47916	2.1455E-6
53.00000	41.00000	13.00000	0.029168	12.566	-0.0011168	-0.45361	2.0322E-6
54.00000	41.00000	13.00000	0.033788	12.566	-0.0010207	-0.42970	1.9261E-6
55.00000	41.00000	13.00000	0.037716	12.566	-934.14E-6	-0.40730	1.8266E-6
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-20.00000	42.00000	13.00000	0.021642	12.566	-0.0036193	-0.70930	3.1266E-6
-19.00000	42.00000	13.00000	0.016186	12.566	-0.0040181	-0.75155	3.3078E-6
-18.00000	42.00000	13.00000	0.0099554	12.566	-0.0044653	-0.79663	3.5006E-6
-17.00000	42.00000	13.00000	0.0028838	12.566	-0.0049668	-0.84470	3.7055E-6
-16.00000	42.00000	13.00000	-0.0050960	12.566	-0.0055285	-0.89592	3.9231E-6
-15.00000	42.00000	13.00000	-0.014050	12.566	-0.0061577	-0.95044	4.1539E-6
-14.00000	42.00000	13.00000	-0.024040	12.566	-0.0068615	-1.0084	4.3982E-6
-13.00000	42.00000	13.00000	-0.035124	12.566	-0.0076472	-1.0699	4.6563E-6
-12.00000	42.00000	13.00000	-0.047351	12.566	-0.0085221	-1.1350	4.9248E-6
-11.00000	42.00000	13.00000	-0.060759	12.566	-0.0094934	-1.2037	5.2145E-6
-10.00000	42.00000	13.00000	-0.075370	12.566	-0.010567	-1.2761	5.5143E-6
-9.00000	42.00000	13.00000	-0.091189	12.566	-0.011749	-1.3520	5.8272E-6
-8.00000	42.00000	13.00000	-0.10820	12.566	-0.013041	-1.4312	6.1524E-6
-7.00000	42.00000	13.00000	-0.126635	12.566	-0.014448	-1.5136	6.4866E-6
-6.00000	42.00000	13.00000	-0.14557	12.566	-0.015952	-1.5986	6.8342E-6
-5.00000	42.00000	13.00000	-0.16576	12.566	-0.017561	-1.6859	7.1871E-6
-4.00000	42.00000	13.00000	-0.18678	12.566	-0.019256	-1.7748	7.5449E-6
-3.00000	42.00000	13.00000	-0.20845	12.566	-0.021019	-1.8644	7.9045E-6
-2.00000	42.00000	13.00000	-0.23058	12.566	-0.022827	-1.9540	8.2626E-6
-1.00000	42.00000	13.00000	-0.25295	12.566	-0.024653	-2.0426	8.6157E-6
0.00000	42.00000	13.00000	-0.27531	12.566	-0.026464	-2.1292	8.9598E-6
1.00000	42.00000	13.00000	-0.29741	12.566	-0.028228	-2.2126	9.2910E-6
2.00000	42.00000	13.00000	-0.31901	12.566	-0.029909	-2.2918	9.6052E-6
3.00000	42.00000	13.00000	-0.33984	12.566	-0.031477	-2.3657	9.8966E-6
4.00000	42.00000	13.00000	-0.35968	12.566	-0.032893	-2.4333	10.167E-6
5.00000	42.00000	13.00000	-0.37832	12.566	-0.034140	-2.4938	10.408E-6
6.00000	42.00000	13.00000	-0.39557	12.566	-0.035190	-2.5463	10.618E-6
7.00000	42.00000	13.00000	-0.41128	12.566	-0.036026	-2.5902	10.795E-6
8.00000	42.00000	13.00000	-0.42532	12.566	-0.036634	-2.6249	10.936E-6
9.00000	42.00000	13.00000	-0.43760	12.566	-0.037005	-2.6501	11.041E-6
10.00000	42.00000	13.00000	-0.44804	12.566	-0.037133	-2.6655	11.108E-6
11.00000	42.00000	13.00000	-0.45660	12.566	-0.037016	-2.6710	11.136E-6
12.00000	42.00000	13.00000	-0.46327	12.566	-0.036657	-2.6668	11.126E-6
13.00000	42.00000	13.00000	-0.46800	12.566	-0.036060	-2.6528	11.079E-6
14.00000	42.00000	13.00000	-0.47090	12.566	-0.035237	-2.6294	10.995E-6
15.00000	42.00000	13.00000	-0.47192	12.566	-0.034198	-2.5971	10.877E-6
16.00000	42.00000	13.00000	-0.47110	12.52			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date	Checked

Name	Location	Displacement	Stresses				
X [m]	Y [m]	Z [Level] [mOD]	Z [m]	Calc Level [mOD]	Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]
53.00000	42.00000	13.00000	0.033117	12.566	-0.0010560	-0.43636	1.9554E-6
54.00000	42.00000	13.00000	0.037050	12.566	-967.08E-6	-0.41394	1.8559E-6
55.00000	42.00000	13.00000	0.040386	12.566	-886.69E-6	-0.39290	1.7624E-6
-25.00000	43.00000	13.00000	0.041152	12.566	-0.0020255	-0.51270	2.2761E-6
-24.00000	43.00000	13.00000	0.039029	12.566	-0.0022288	-0.54101	2.3993E-6
-23.00000	43.00000	13.00000	0.036489	12.566	-0.0024552	-0.57115	2.5302E-6
-22.00000	43.00000	13.00000	0.033488	12.566	-0.0027073	-0.60324	2.6692E-6
-21.00000	43.00000	13.00000	0.029979	12.566	-0.0029882	-0.63739	2.8169E-6
-20.00000	43.00000	13.00000	0.025912	12.566	-0.0033013	-0.67375	2.9736E-6
-19.00000	43.00000	13.00000	0.021236	12.566	-0.0036504	-0.71241	3.1319E-6
-18.00000	43.00000	13.00000	0.015898	12.566	-0.0040394	-0.75352	3.3162E-6
-17.00000	43.00000	13.00000	0.0098439	12.566	-0.0044729	-0.79719	3.5030E-6
-16.00000	43.00000	13.00000	0.0030213	12.566	-0.0049554	-0.84352	3.7005E-6
-15.00000	43.00000	13.00000	-0.0046214	12.566	-0.0054919	-0.89263	3.9092E-6
-14.00000	43.00000	13.00000	-0.013132	12.566	-0.0060874	-0.94460	4.1292E-6
-13.00000	43.00000	13.00000	-0.022552	12.566	-0.0067472	-0.99948	4.3608E-6
-12.00000	43.00000	13.00000	-0.032918	12.566	-0.0074759	-1.0573	4.6039E-6
-11.00000	43.00000	13.00000	-0.044254	12.566	-0.0082782	-1.1181	4.8583E-6
-10.00000	43.00000	13.00000	-0.056571	12.566	-0.0091576	-1.1817	5.1238E-6
-9.00000	43.00000	13.00000	-0.069868	12.566	-0.010117	-1.2481	5.3996E-6
-8.00000	43.00000	13.00000	-0.084121	12.566	-0.011172	-1.3172	5.6850E-6
-7.00000	43.00000	13.00000	-0.099288	12.566	-0.012275	-1.3885	5.9788E-6
-6.00000	43.00000	13.00000	-0.11530	12.566	-0.013469	-1.4618	6.2796E-6
-5.00000	43.00000	13.00000	-0.13208	12.566	-0.014731	-1.5366	6.5854E-6
-4.00000	43.00000	13.00000	-0.14949	12.566	-0.016051	-1.6124	6.8943E-6
-3.00000	43.00000	13.00000	-0.16742	12.566	-0.017442	-1.6881	7.2036E-6
-2.00000	43.00000	13.00000	-0.18568	12.566	-0.018805	-1.7645	7.5107E-6
-1.00000	43.00000	13.00000	-0.20412	12.566	-0.020202	-1.8393	7.8127E-6
0.00000	43.00000	13.00000	-0.22252	12.566	-0.021582	-1.9122	8.1062E-6
1.00000	43.00000	13.00000	-0.24071	12.566	-0.022921	-1.9822	8.3882E-6
2.00000	43.00000	13.00000	-0.25847	12.566	-0.024190	-2.0487	8.6553E-6
3.00000	43.00000	13.00000	-0.27560	12.566	-0.025382	-2.1105	8.9044E-6
4.00000	43.00000	13.00000	-0.29194	12.566	-0.026457	-2.1671	9.1326E-6
5.00000	43.00000	13.00000	-0.30729	12.566	-0.027401	-2.2177	9.3370E-6
6.00000	43.00000	13.00000	-0.32152	12.566	-0.028197	-2.2617	9.5153E-6
7.00000	43.00000	13.00000	-0.33449	12.566	-0.028832	-2.2989	9.6654E-6
8.00000	43.00000	13.00000	-0.34610	12.566	-0.029293	-2.3278	9.7857E-6
9.00000	43.00000	13.00000	-0.35627	12.566	-0.029575	-2.3491	9.8749E-6
10.00000	43.00000	13.00000	-0.36492	12.566	-0.029673	-2.3622	9.9321E-6
11.00000	43.00000	13.00000	-0.37203	12.566	-0.029585	-2.3672	9.9570E-6
12.00000	43.00000	13.00000	-0.37757	12.566	-0.029231	-2.3647	9.9497E-6
13.00000	43.00000	13.00000	-0.38153	12.566	-0.028860	-2.3526	9.9106E-6
14.00000	43.00000	13.00000	-0.38391	12.566	-0.028235	-2.3335	9.8406E-6
15.00000	43.00000	13.00000	-0.38474	12.566	-0.027448	-2.3068	9.7409E-6
16.00000	43.00000	13.00000	-0.38404	12.566	-0.026513	-2.2731	9.6131E-6
17.00000	43.00000	13.00000	-0.38184	12.566	-0.025447	-2.2329	9.4592E-6
18.00000	43.00000	13.00000	-0.37819	12.566	-0.024270	-2.1867	9.2813E-6
19.00000	43.00000	13.00000	-0.37312	12.566	-0.023004	-2.1352	9.0817E-6
20.00000	43.00000	13.00000	-0.36669	12.566	-0.021672	-2.0792	8.8631E-6
21.00000	43.00000	13.00000	-0.35895	12.566	-0.020300	-2.0192	8.6280E-6
22.00000	43.00000	13.00000	-0.34995	12.566	-0.018819	-1.9563	8.3791E-6
23.00000	43.00000	13.00000	-0.33974	12.566	-0.017525	-1.8906	8.1189E-6
24.00000	43.00000	13.00000	-0.32840	12.566	-0.016166	-1.8233	7.8500E-6
25.00000	43.00000	13.00000	-0.31598	12.566	-0.014850	-1.7549	7.5747E-6
26.00000	43.00000	13.00000	-0.30256	12.566	-0.013590	-1.6859	7.2953E-6
27.00000	43.00000	13.00000	-0.28823	12.566	-0.012392	-1.6163	7.0163E-6
28.00000	43.00000	13.00000	-0.27309	12.566	-0.011279	-1.5481	6.7316E-6
29.00000	43.00000	13.00000	-0.25722	12.566	-0.010239	-1.4801	6.4509E-6
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31.00000	43.00000	13.00000	-0.22384	12.566	-0.0083952	-1.3475	5.8966E-6
32.00000	43.00000	13.00000	-0.20659	12.566	-0.0075889	-1.2829	5.6294E-6
33.00000	43.00000	13.00000	-0.18915	12.566	-0.0068553	-1.2212	5.3662E-6
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35.00000	43.00000	13.00000	-0.15437	12.566	-0.0055887	-1.1025	4.8610E-6
36.00000	43.00000	13.00000	-0.13732	12.566	-0.0050460	-1.0463	4.6202E-6
37.00000	43.00000	13.00000	-0.12069	12.566	-0.0045752	-0.99235	4.3818E-6
38.00000	43.00000	13.00000	-0.10461	12.566	-0.0041173	-0.94065	4.1650E-6
39.00000	43.00000	13.00000	-0.089198	12.566	-0.0037220	-0.89124	3.9511E-6
40.00000	43.00000	13.00000	-0.074539	12.566	-0.0033669	-0.84415	3.7467E-6
41.00000	43.00000	13.00000	-0.060712	12.566	-0.0030479	-0.79936	3.5517E-6
42.00000	43.00000	13.00000	-0.047771	12.566	-0.0027619	-0.75681	3.3662E-6
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44.00000	43.00000	13.00000	-0.024666	12.566	-0.0022732	-0.67843	3.0230E-6
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46.00000	43.00000	13.00000	-0.0052907	12.566	-0.0018788	-0.60841	2.7153E-6
47.00000	43.00000	13.00000	0.0030413	12.566	-0.0017108	-0.57635	2.5741E-6
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52.00000	43.00000	13.00000	0.032719	12.566	-0.0010889	-0.44199	1.9801E-6
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54.00000	43.00000	13.00000	0.039924	12.566	-915.51E-6	-0.39866	1.7878E-6
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-12.00000	44.00000	13.00000	-0.020229	12.566	-0.0065723	-0.98589	4.3038E-6
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-7.00000	44.00000	13.00000	-0.075883	12.566	-0.010484	-1.2764	5.5181E-6
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3.00000	44.00000	13.00000	-0.22154	12.566	-0.020680	-1.8918	8.0382E-6
4.00000	44.00000	13.00000	-0.23499	1			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Total Heave

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Name	X [m]	Location Y [m]	Displacement Z[Level] [mOD]	Calc Level [mOD]	Stresses Vert Stress [kN/m ²]	Sum Princ [kN/m ²]	Vert Strain [-]	
	21.00000	44.00000	13.00000	-0.289989	12.566	-0.016778	-1.8178	7.8082E-6
	22.00000	44.00000	13.00000	-0.28232	12.566	-0.015702	-1.7643	7.5945E-6
	23.00000	44.00000	13.00000	-0.27376	12.566	-0.014626	-1.7086	7.3705E-6
	24.00000	44.00000	13.00000	-0.26425	12.566	-0.013564	-1.6512	7.1384E-6
	25.00000	44.00000	13.00000	-0.25385	12.566	-0.012529	-1.5926	6.9001E-6
	26.00000	44.00000	13.00000	-0.24264	12.566	-0.011532	-1.5333	6.6576E-6
	27.00000	44.00000	13.00000	-0.23068	12.566	-0.010581	-1.4737	6.4125E-6
	28.00000	44.00000	13.00000	-0.21805	12.566	-0.009625	-1.4142	6.1664E-6
	29.00000	44.00000	13.00000	-0.20485	12.566	-0.0088403	-1.3551	5.9208E-6
	30.00000	44.00000	13.00000	-0.19118	12.566	-0.0080562	-1.2968	5.6769E-6
	31.00000	44.00000	13.00000	-0.17713	12.566	-0.0073307	-1.2394	5.4358E-6
	32.00000	44.00000	13.00000	-0.16283	12.566	-0.006626	-1.1832	5.1985E-6
	33.00000	44.00000	13.00000	-0.14840	12.566	-0.0060503	-1.1284	4.9659E-6
	34.00000	44.00000	13.00000	-0.13395	12.566	-0.0054910	-1.0751	4.7388E-6
	35.00000	44.00000	13.00000	-0.11961	12.566	-0.0049816	-1.0234	4.5178E-6
	36.00000	44.00000	13.00000	-0.10551	12.566	-0.0045189	-0.97352	4.3035E-6
	37.00000	44.00000	13.00000	-0.091738	12.566	-0.0040994	-0.92544	4.0963E-6
	38.00000	44.00000	13.00000	-0.078413	12.566	-0.0037196	-0.87924	3.8966E-6
	39.00000	44.00000	13.00000	-0.065624	12.566	-0.0033762	-0.83496	3.7046E-6
	40.00000	44.00000	13.00000	-0.053446	12.566	-0.0030659	-0.79262	3.5206E-6
	41.00000	44.00000	13.00000	-0.041940	12.566	-0.0027850	-0.75222	3.3445E-6
	42.00000	44.00000	13.00000	-0.031153	12.566	-0.0025329	-0.71375	3.1765E-6
	43.00000	44.00000	13.00000	-0.021115	12.566	-0.0023047	-0.67717	3.0164E-6
	44.00000	44.00000	13.00000	-0.011842	12.566	-0.0020987	-0.64245	2.8641E-6
	45.00000	44.00000	13.00000	-0.0033369	12.566	-0.0019128	-0.60955	2.7196E-6
	46.00000	44.00000	13.00000	0.0044081	12.566	-0.0017448	-0.57839	2.5825E-6
	47.00000	44.00000	13.00000	0.011412	12.566	-0.0015931	-0.54892	2.4526E-6
	48.00000	44.00000	13.00000	0.017699	12.566	-0.0014560	-0.52106	2.3297E-6
	49.00000	44.00000	13.00000	0.023303	12.566	-0.0013319	-0.49475	2.2134E-6
	50.00000	44.00000	13.00000	0.028260	12.566	-0.0012196	-0.46992	2.1036E-6
	51.00000	44.00000	13.00000	0.0326610	12.566	-0.0011179	-0.44640	1.9998E-6
	52.00000	44.00000	13.00000	0.036393	12.566	-0.0010257	-0.42437	1.9017E-6
	53.00000	44.00000	13.00000	0.039653	12.566	-942.05E-6	-0.40352	1.8092E-6
	54.00000	44.00000	13.00000	0.042430	12.566	-866.06E-6	-0.38385	1.7218E-6
	55.00000	44.00000	13.00000	0.044767	12.566	-797.00E-6	-0.36530	1.6394E-6
	-25.00000	45.00000	13.00000	0.043867	12.566	-0.0174009	-2.09205	7.5629E-6
	-24.00000	45.00000	13.00000	0.042402	12.566	-0.0019045	-0.49495	2.1987E-6
	-23.00000	45.00000	13.00000	0.040621	12.566	-0.0020851	-0.52083	2.3114E-6
	-22.00000	45.00000	13.00000	0.038495	12.566	-0.0022843	-0.54823	2.4306E-6
	-21.00000	45.00000	13.00000	0.035989	12.566	-0.0025042	-0.57722	2.5564E-6
	-20.00000	45.00000	13.00000	0.033070	12.566	-0.0027468	-0.60787	2.6892E-6
	-19.00000	45.00000	13.00000	0.029705	12.566	-0.0030144	-0.64027	2.8292E-6
	-18.00000	45.00000	13.00000	0.025857	12.566	-0.0033093	-0.67447	2.9767E-6
	-17.00000	45.00000	13.00000	0.021493	12.566	-0.0036339	-0.71054	3.1318E-6
	-16.00000	45.00000	13.00000	0.016580	12.566	-0.0039908	-0.74853	3.2949E-6
	-15.00000	45.00000	13.00000	0.011087	12.566	-0.0043826	-0.78848	3.4658E-6
	-14.00000	45.00000	13.00000	0.0049874	12.566	-0.0048116	-0.83040	3.6448E-6
	-13.00000	45.00000	13.00000	-0.0017428	12.566	-0.0052803	-0.87432	3.8317E-6
	-12.00000	45.00000	13.00000	-0.0091198	12.566	-0.0057905	-0.92019	4.0263E-6
	-11.00000	45.00000	13.00000	-0.017153	12.566	-0.0063440	-0.96797	4.2285E-6
	-10.00000	45.00000	13.00000	-0.025843	12.566	-0.0069483	-1.01923	4.4377E-6
	-9.00000	45.00000	13.00000	-0.035179	12.566	-0.0075836	-1.0689	4.6535E-6
	-8.00000	45.00000	13.00000	-0.045139	12.566	-0.0082690	-1.1217	4.8749E-6
	-7.00000	45.00000	13.00000	-0.055687	12.566	-0.0089957	-1.1758	5.1011E-6
	-6.00000	45.00000	13.00000	-0.066773	12.566	-0.0097603	-1.2309	5.3309E-6
	-5.00000	45.00000	13.00000	-0.078332	12.566	-0.010559	-1.2867	5.5629E-6
	-4.00000	45.00000	13.00000	-0.090286	12.566	-0.011381	-1.3428	5.7955E-6
	-3.00000	45.00000	13.00000	-0.10254	12.566	-0.012222	-1.3988	6.0271E-6
	-2.00000	45.00000	13.00000	-0.11500	12.566	-0.013070	-1.4541	6.2557E-6
	-1.00000	45.00000	13.00000	-0.12753	12.566	-0.013915	-1.5084	6.4793E-6
	0.00000	45.00000	13.00000	-0.14003	12.566	-0.014744	-1.5603	6.6957E-6
	1.00000	45.00000	13.00000	-0.15235	12.566	-0.015544	-1.6113	6.9028E-6
	2.00000	45.00000	13.00000	-0.16438	12.566	-0.016302	-1.6589	7.0985E-6
	3.00000	45.00000	13.00000	-0.17600	12.566	-0.017005	-1.7031	7.2805E-6
	4.00000	45.00000	13.00000	-0.18707	12.566	-0.017641	-1.7436	7.4470E-6
	5.00000	45.00000	13.00000	-0.19749	12.566	-0.018200	-1.7797	7.5962E-6
	6.00000	45.00000	13.00000	-0.20716	12.566	-0.018671	-1.8111	7.7263E-6
	7.00000	45.00000	13.00000	-0.21600	12.566	-0.019046	-1.8375	7.8359E-6
	8.00000	45.00000	13.00000	-0.22391	12.566	-0.019320	-1.8585	7.9241E-6
	9.00000	45.00000	13.00000	-0.23086	12.566	-0.019487	-1.8740	7.9897E-6
	10.00000	45.00000	13.00000	-0.23678	12.566	-0.019548	-1.8838	8.0324E-6
	11.00000	45.00000	13.00000	-0.24165	12.566	-0.019493	-1.8876	8.0517E-6
	12.00000	45.00000	13.00000	-0.24544	12.566	-0.019332	-1.8858	8.0477E-6
	13.00000	45.00000	13.00000	-0.24815	12.566	-0.019064	-1.8782	8.0206E-6
	14.00000	45.00000	13.00000	-0.24976	12.566	-0.018695	-1.8651	7.9710E-6
	15.00000	45.00000	13.00000	-0.25029	12.566	-0.018230	-1.8465	7.8998E-6
	16.00000	45.00000	13.00000	-0.24975	12.566	-0.017678	-1.8231	7.8079E-6
	17.00000	45.00000	13.00000	-0.24817	12.566	-0.017047	-1.7949	7.6966E-6
	18.00000	45.00000	13.00000	-0.24556	12.566	-0.016349	-1.7623	7.5674E-6
	19.00000	45.00000	13.00000	-0.24196	12.566	-0.015597	-1.7257	7.4218E-6
	20.00000	45.00000	13.00000	-0.23741	12.566	-0.014802	-1.6857	7.2616E-6
	21.00000	45.00000	13.00000	-0.23194	12.566	-0.013977	-1.6427	7.0886E-6
	22.00000	45.00000	13.00000	-0.22559	12.566	-0.013137	-1.5972	6.9044E-6
	23.00000	45.00000	13.00000	-0.21840	12.566	-0.012292	-1.5496	6.7109E-6
	24.00000	45.00000	13.00000	-0.21044	12.566	-0.011454	-1.5003	6.5099E-6
	25.00000	45.00000	13.00000	-0.20174	12.566	-0.010633	-1.4499	6.3031E-6
	26.00000	45.00000	13.00000	-0.19237	12.566	-0.0098371	-1.3987	6.0919E-6
	27.00000	45.00000	13.00000	-0.18239	12.566	-0.0090735	-1.3471	5.8780E-6
	28.00000	45.00000	13.00000	-0.17187	12.566	-0.0083470	-1.2954	5.6627E-6
	29.00000	45.00000	13.00000	-0.16089	12.566	-0.0076613	-1.2439	5.4472E-6
	30.00000	45.00000	13.00000	-0.14952	12.566	-0.0070183	-1.1928	5.2327E-6
	31.00000	45.00000	13.00000	-0.13787	12.566	-0.0064191	-1.1425	5.0201E-6
	32.00000	45.00000	13.00000	-0.12601	12.566	-0.0058635	-1.0931	4.8104E-6
	33.00000	45.00000	13.00000	-0.11406	12.566	-0.0053507	-1.0447	4.6044E-6
	34.00000	45.00000	13.00000	-0.10210	12.566	-0.0048791	-0.99749	4.4027E-6
	35.00000	45.00000	13.00000	-0.090229	12.566	-0.0044468	-0.95165	4.2059E-6
	36.00000	45.00000	13.00000	-0.078550	12.566	-0.00404515	-0.90719	4.0147E-6
	37.00000	45.00000	13.00000	-0.067151	12.566	-0.0036910	-0.86425	3.8293E-6
	38.00000	45.00000	13.00000	-0.056112	12.566	-0.0033626	-0.82288	3.6501E-6
	39.00000	45.00000	13.00000	-0.045507	12.566	-0.0030641	-0.78311	3.4774E-6
	40.00000	45.00000	13.00000	-0.035399	12.566	-0.0027928	-0.74499	3.3113E-6
	41.00000	45.00000	13.00000	-0.025837	12.566	-0.0025467	-0.70846	3.1520E-6
	42.00000	45.00000	13.00000	-0.016861	12.566	-0.0023234	-0.67359	2.9996E-6
	43.00000	45.00000	13.00000	-0.0084961	12.566	-0.0021209	-0.64034	2.8539E-6
	44.00000	45.00000	13.00000	-758.88E-6	12.566	-0.0019373	-0.60868	2.7150E-6
	45.00000	45.00000	13.00000	0.0063461	12.566	-0.0017708	-0.57857	2.5827E-6
	46.00000	45.00000	13.00000	0.012823	12.566	-0.0016199	-0.55001	2.4568E-6
	47.00000	45.00000	13.00000	0.018685	12.566	-0.0014830	-0.52290	2.3373E-6
	48.00000	45.00000	13.00000	0.023950	12.566	-0.0013588	-0.49720	2.2238E-6
	49.00000	45.00000	13.00					

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Made by MP	Date 04-Jan-2017	Checked

Problem Type

Problem Type : Tunnelling and Embedded Wall Excavations

Displacement Data

Type	Name	Direction of extrusion	Point/Line/Line for extrusion						No. of intervals across extrusion/line	Extrusion depth	No. of intervals along extrusion	Calculate	Surface type for tunnels	
			First point			Second point								
			X [m]	Y [m]	Z (level) [m]	X [m]	Y [m]	Z (level) [m]						
Grid	Grid 1	Global X	-25.00000	-20.00000	18.50000	-	45.00000	18.00000	65	80.00000			Surface	
Grid	Grid 2	Global X	-25.00000	-20.00000	15.00000	-	45.00000	15.00000	65	80.00000		80	Yes	Surface
Line	Line 1	-	0.00000	0.00000	18.50000	11.00000	0.00000	18.00000	5	-	-	Yes	Surface	
Line	Line 2	-	11.00000	0.00000	18.50000	11.00000	-3.00000	18.00000	1	-	-	Yes	Surface	
Line	Line 3	-	11.00000	-3.00000	18.50000	7.00000	-3.00000	18.00000	2	-	-	Yes	Surface	
Line	Line 4	-	7.00000	-3.00000	18.50000	7.00000	-9.00000	18.00000	3	-	-	Yes	Surface	
Line	Line 5	-	0.00000	0.00000	18.50000	0.00000	-9.00000	18.00000	4	-	-	Yes	Surface	
Line	Line 6	-	11.50000	-3.00000	18.50000	11.50000	-9.00000	18.00000	3	-	-	Yes	Surface	
Line	Line 7	-	11.50000	-3.00000	18.50000	37.50000	-3.00000	18.00000	13	-	-	Yes	Surface	
Line	Line 8	-	37.50000	-3.00000	18.50000	37.50000	-9.00000	18.00000	3	-	-	Yes	Surface	
Line	Line 9	-	1.00000	26.00000	17.00000	1.00000	40.00000	17.00000	7	-	-	Yes	Surface	
Line	Line 10	-	1.00000	26.00000	17.00000	10.00000	26.00000	17.00000	4	-	-	Yes	Surface	
Line	Line 11	-	10.00000	26.00000	17.00000	10.00000	34.00000	17.00000	4	-	-	Yes	Surface	
Line	Line 12	-	10.00000	34.00000	17.00000	24.00000	34.00000	17.00000	7	-	-	Yes	Surface	
Line	Line 13	-	24.00000	34.00000	17.00000	24.00000	40.00000	17.00000	3	-	-	Yes	Surface	
Line	Line 14	-	-5.00000	-10.00000	19.00000	-5.00000	40.00000	19.00000	25	-	-	Yes	Surface	
Grid	Grid 3	Global X	-25.00000	-20.00000	19.50000	-	45.00000	19.50000	65	80.00000		80	Yes	Surface

Vertical Ground Movement Curves

Curve Name: No vertical ground movement

Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z) (%)]
[0.000,0.000,0.000] [1.000,0.000,0.000] [0.000,1.000,0.000] [1.000,1.000,0.000]

Curve Fitting Polynomial

Method:

x Order: 1

y Order: 0

Polynomial: z = 0.0x + 0.0

Coeff. of

-2147483648.E+2147483647

Determination:

Curve Name: Installation of secant bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(b))

Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z) (%)]
[0.000,0.000,0.050] [2.000,0.000,0.000]

Curve Fitting Polynomial

Method:

x Order: 1

y Order: 0

Polynomial: z = -2.5E-2x + 5.0E-2

Coeff. of

1.0

Determination:

Curve Name: Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))

Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z) (%)]

[0.000,0.000,0.050] [0.050,0.000,0.047] [0.100,0.000,0.043] [0.150,0.000,0.040]
[0.200,0.000,0.037] [0.250,0.000,0.034] [0.300,0.000,0.031] [0.350,0.000,0.028]
[0.400,0.000,0.025] [0.450,0.000,0.022] [0.500,0.000,0.020] [0.550,0.000,0.018]
[0.600,0.000,0.016] [0.650,0.000,0.014] [0.700,0.000,0.012] [0.750,0.000,0.010]
[0.800,0.000,0.008] [0.850,0.000,0.007] [0.900,0.000,0.006] [0.950,0.000,0.005]
[1.000,0.000,0.004] [1.050,0.000,0.003] [1.100,0.000,0.003] [1.150,0.000,0.002]
[1.200,0.000,0.002] [1.250,0.000,0.001] [1.300,0.000,0.001] [1.350,0.000,0.001]
[1.400,0.000,0.001] [1.450,0.000,0.000] [1.500,0.000,0.000]

Curve Fitting Polynomial

Method:

x Order: 4

y Order: 0

Polynomial: z = -1.2355E-2x⁴ + 3.4814E-2x³ - 2.8885E-3x² - 6.5618E-2x + 4.9987E-2

Coeff. of

1.0000

Determination:

Curve Name: Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))

Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z) (%)]

[0.000,0.000,0.039] [0.100,0.000,0.049] [0.200,0.000,0.056] [0.300,0.000,0.062]
[0.400,0.000,0.067] [0.500,0.000,0.070] [0.600,0.000,0.072] [0.700,0.000,0.073]
[0.800,0.000,0.073] [0.900,0.000,0.072] [1.000,0.000,0.070] [1.100,0.000,0.068]
[1.200,0.000,0.065] [1.300,0.000,0.061] [1.400,0.000,0.058] [1.500,0.000,0.054]
[1.600,0.000,0.050] [1.700,0.000,0.046] [1.800,0.000,0.042] [1.900,0.000,0.038]
[2.000,0.000,0.034] [2.100,0.000,0.030] [2.200,0.000,0.027] [2.300,0.000,0.023]
[2.400,0.000,0.020] [2.500,0.000,0.017] [2.600,0.000,0.014] [2.700,0.000,0.012]
[2.800,0.000,0.010] [2.900,0.000,0.008] [3.000,0.000,0.007] [3.100,0.000,0.005]
[3.200,0.000,0.004] [3.300,0.000,0.004] [3.400,0.000,0.003] [3.500,0.000,0.002]
[3.600,0.000,0.002] [3.700,0.000,0.002] [3.800,0.000,0.001] [3.900,0.000,0.001]
[4.000,0.000,0.000]

Curve Fitting Polynomial

Method:

x Order: 4

y Order: 0

Polynomial: z = -2.6455E-3x⁴ + 2.8495E-2x³ - 1.0051E-1x² + 1.0569E-1x + 3.8990E-2

Coeff. of

9.9991E-1

Determination:

Horizontal Ground Movement Curves

Curve Name: No horizontal ground movement

Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z) (%)]
[0.000,0.000,0.000] [1.000,0.000,0.000] [0.000,1.000,0.000] [1.000,1.000,0.000]

Curve Fitting Polynomial

Method:

x Order: 0

y Order: 0

Polynomial: z = 0.0

Coeff. of

-2147483648.E+2147483647

Determination:

Curve Name: Installation of secant bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(a))

Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z) (%)]

[0.000,0.000,0.081] [0.050,0.000,0.076] [0.100,0.000,0.072] [0.150,0.000,0.067]
[0.200,0.000,0.063] [0.250,0.000,0.059] [0.300,0.000,0.056] [0.350,0.000,0.052]



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

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Made by MP	Date 04-Jan-2017	Checked

Type	Name	Direction of extrusion	Point/Line/Line for extrusion	No. of intervals across extrusion/line	Extrusion depth	No. of intervals along extrusion	Calculate Surface type for tunnels
			[0.400,0.000,0.049][0.450,0.000,0.045][0.500,0.000,0.043][0.550,0.000,0.040]				
			[0.600,0.000,0.037][0.650,0.000,0.034][0.700,0.000,0.032][0.750,0.000,0.029]				
			[0.800,0.000,0.027][0.850,0.000,0.024][0.900,0.000,0.022][0.950,0.000,0.020]				
			[1.000,0.000,0.018][1.050,0.000,0.016][1.100,0.000,0.014][1.150,0.000,0.012]				
			[1.200,0.000,0.011][1.250,0.000,0.009][1.300,0.000,0.007][1.350,0.000,0.005]				
			[1.400,0.000,0.004][1.450,0.000,0.002][1.500,0.000,0.000]				
Curve Fitting		Polynomial					
Method:							
x Order:		3					
y Order:		0					
Polynomial: z =		-1.0610E-2x ³ + 4.4203E-2x ² - 9.6358E-2x + 8.0901E-2					
Coeff. of		1.0000					
Determination:							
Curve Name:		Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))					
Coordinates:		[Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]					
		[0.000,0.000,0.050][1.500,0.000,0.000]					
Curve Fitting		Polynomial					
Method:							
x Order:		1					
y Order:		0					
Polynomial: z =		-3.33E-2x + 5.00E-2					
Coeff. of		1.00					
Determination:							
Curve Name:		Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(a))					
Coordinates:		[Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]					
		[0.000,0.000,0.150][4.000,0.000,0.000]					
Curve Fitting		Polynomial					
Method:							
x Order:		1					
y Order:		0					
Polynomial: z =		-3.75E-2x + 1.50E-1					
Coeff. of		1.00					
Determination:							
Polygonal Excavations							
Excavation Name:		Area 1 - Excavation Phase					
Surface level [m]:		19.500					
Contribution:		Positive					
Enabled:		Yes					
Surface movement curves which are selected are applied between surface and [m]:		15.000					
Corner	x	y	Base Level	Stiffened	Previous Side	Next Side	
	[m]	[m]	[m]		d p1 p2*	d p1 p2*	
					[m] [%] [%]	[m] [%] [%]	
1	0.0	0.0	15.000	Yes	0.0 67.000 25.000	0.0 67.000 25.000	
2	20.000	0.0	15.000	Yes	0.0 67.000 25.000	0.0 67.000 25.000	
3	20.000	26.000	15.000	Yes	0.0 67.000 25.000	0.0 67.000 25.000	
4	0.0	26.000	15.000	Yes	0.0 67.000 25.000	0.0 67.000 25.000	
Side	Corner 1	Corner 2	Ground Movement Curve				
	x y	x y	Vertical Horizontal				
	[m] [m]	[m] [m]					
1	0.0 0.0	20.000 0.0	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))				
2	20.000 0.0	20.000 26.000	No vertical ground movement				
3	20.000 26.000	0.0 26.000	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))				
4	0.0 26.000	0.0 0.0	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))				
Excavation Name:		Area 2 - Excavation					
Surface level [m]:		17.500					
Contribution:		Positive					
Enabled:		Yes					
Surface movement curves which are selected are applied between surface and [m]:		13.000					
Corner	x	y	Base Level	Stiffened	Previous Side	Next Side	
	[m]	[m]	[m]		d p1 p2*	d p1 p2*	
					[m] [%] [%]	[m] [%] [%]	
1	20.000	0.0	13.000	Yes	0.0 67.000 25.000	0.0 67.000 25.000	
2	34.000	0.0	13.000	Yes	0.0 67.000 25.000	0.0 67.000 25.000	
3	34.000	26.000	13.000	Yes	0.0 67.000 25.000	0.0 67.000 25.000	
4	20.000	26.000	13.000	Yes	0.0 67.000 25.000	0.0 67.000 25.000	
Side	Corner 1	Corner 2	Ground Movement Curve				
	x y	x y	Vertical Horizontal				
	[m] [m]	[m] [m]					
1	20.000 0.0	34.000 0.0	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))				
2	34.000 0.0	34.000 26.000	No vertical ground movement				
3	34.000 26.000	20.000 26.000	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))				
4	20.000 26.000	20.000 0.0	No vertical ground movement				
Excavation Name:		Area 1 - Pile Installation					
Surface level [m]:		19.500					
Contribution:		Positive					
Enabled:		Yes					
Surface movement curves which are selected are applied between surface and [m]:		12.000					
Corner	x	y	Base Level	Stiffened	Previous Side	Next Side	
	[m]	[m]	[m]		d p1 p2*	d p1 p2*	
					[m] [%] [%]	[m] [%] [%]	
1	0.0	0.0	12.000	Yes	0.0 67.000 25.000	0.0 67.000 25.000	
2	20.000	0.0	12.000	Yes	0.0 67.000 25.000	0.0 67.000 25.000	
3	20.000	26.000	12.000	Yes	0.0 67.000 25.000	0.0 67.000 25.000	
4	0.0	26.000	12.000	Yes	0.0 67.000 25.000	0.0 67.000 25.000	
Side	Corner 1	Corner 2	Ground Movement Curve				
	x y	x y	Vertical Horizontal				
	[m] [m]	[m] [m]					
1	0.0 0.0	20.000 0.0	No vertical ground movement				
2	20.000 0.0	20.000 26.000	No vertical ground movement				
3	20.000 26.000	0.0 26.000	No vertical ground movement				
4	0.0 26.000	0.0 0.0	Installation of secant bored pile wall in stiff clay (CIRIA pile wall in stiff clay (CIRIA				

Combined Movements

Side		Corner 1		Corner 2		Ground Movement Curve																								
	x	y	x	y	Vertical					Horizontal																				
	[m]	[m]	[m]	[m]																										
580 Fig. 2.8(b))															580 Fig. 2.8(a))															
Excavation Name:															Area 2 - Underpinning															
Surface level [m]:															17.500															
Contribution:															Positive															
Enabled:															Yes															
Surface movement curves which are selected are applied between surface and [m]:															13.000															
Corner	x	y	Base Level	Stiffened	Previous Side		Next Side																							
	[m]	[m]	[m]		d	p1	p2*	d	p1	p2*																				
					[m]	[%]	[%]	[m]	[%]	[%]																				
1	20.000	0.0	13.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				
2	34.000	0.0	13.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				
3	34.000	26.000	13.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				
4	20.000	26.000	13.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				

Side	Corner 1		Corner 2		Ground Movement Curve									
	x	y	x	y	Vertical					Horizontal				
	[m]	[m]	[m]	[m]										
1	20.000	0.0	34.000	0.0	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))					Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))				
2	34.000	0.0	34.000	26.000	No vertical ground movement					No horizontal ground movement				
3	34.000	26.000	20.000	26.000	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))					Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))				
4	20.000	26.000	20.000	0.0	No vertical ground movement					No horizontal ground movement				

Excavation Name:															Area 2 - Underpinning of Panther House Basement															
Surface level [m]:															15.000															
Contribution:															Positive															
Enabled:															Yes															
Surface movement curves which are selected are applied between surface and [m]:															13.000															
Corner	x	y	Base Level	Stiffened	Previous Side		Next Side																							
	[m]	[m]	[m]		d	p1	p2*	d	p1	p2*																				
					[m]	[%]	[%]	[m]	[%]	[%]																				
1	20.000	0.0	13.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				
2	34.000	0.0	13.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				
3	34.000	26.000	13.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				
4	20.000	26.000	13.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				

Side	Corner 1		Corner 2		Ground Movement Curve									
	x	y	x	y	Vertical					Horizontal				
	[m]	[m]	[m]	[m]										
1	20.000	0.0	34.000	0.0	No vertical ground movement					No horizontal ground movement				
2	34.000	0.0	34.000	26.000	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))					Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))				
3	34.000	26.000	20.000	26.000	No vertical ground movement					No horizontal ground movement				
4	20.000	26.000	20.000	0.0	No vertical ground movement					No horizontal ground movement				

Excavation Name:															Area 2 - Excavation beneath Panther House Basement															
Surface level [m]:															15.000															
Contribution:															Positive															
Enabled:															Yes															
Surface movement curves which are selected are applied between surface and [m]:															13.000															
Corner	x	y	Base Level	Stiffened	Previous Side		Next Side																							
	[m]	[m]	[m]		d	p1	p2*	d	p1	p2*																				
					[m]	[%]	[%]	[m]	[%]	[%]																				
1	20.000	0.0	13.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				
2	34.000	0.0	13.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				
3	34.000	26.000	13.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				
4	20.000	26.000	13.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				

Side	Corner 1		Corner 2		Ground Movement Curve									
	x	y	x	y	Vertical					Horizontal				
	[m]	[m]	[m]	[m]										
1	20.000	0.0	34.000	0.0	No vertical ground movement					No horizontal ground movement				
2	34.000	0.0	34.000	26.000	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))					Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(a))				
3	34.000	26.000	20.000	26.000	No vertical ground movement					No horizontal ground movement				
4	20.000	26.000	20.000	0.0	No vertical ground movement					No horizontal ground movement				

Excavation Name:															Area 1 - Underpinning															
Surface level [m]:															19.500															
Contribution:															Positive															
Enabled:															Yes															
Surface movement curves which are selected are applied between surface and [m]:															15.000															
Corner	x	y	Base Level	Stiffened	Previous Side		Next Side																							
	[m]	[m]	[m]		d	p1	p2*	d	p1	p2*																				
					[m]	[%]	[%]	[m]	[%]	[%]																				
1	0.0	0.0	15.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				
2	20.000	0.0	15.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				
3	20.000	26.000	15.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				
4	0.0	26.000	15.000	Yes	0.0	67.000	25.000	0.0	67.000	25.000																				

Side	Corner 1		Corner 2		Ground Movement Curve									
	x	y	x	y	Vertical					Horizontal				
	[m]	[m]	[m]	[m]										
1	0.0	0.0	20.000	0.0	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))					Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))				
2	20.000	0.0	20.000	26.000	No vertical ground movement					No horizontal ground movement				
3	20.000	26.000	0.0	26.000	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))					Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))				
4	0.0	26.000	0.0	0.0	No vertical ground movement					No horizontal ground movement				

Damage Category Strains																		
Name		0 (Negligible) to 1 (Very Slight)		2 (Slight)		3 (Moderate) to 4 (Severe)												
Burland Strain Limits		0.0		500.00E-6		750.00E-6		0.0015000										

Specific Structures - Geometry																		
Structure Name	Sub-Structure Name	Displacement Line	Start Distance Along	End Distance Along	Vertical Offsets from Line for	Vertical Displacement Limit	Damage Category Strains	Poisson's Ratio	E/G									

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			Line	Line	Vertical Movement Calculations	Sensitivity		
			[m]	[m]	[m]	[mm]		
No 154	Party Wall (1)	Line 1	0.00000	11.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
No 154	Rear Elevation (2)	Line 2	0.00000	3.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
No 154	Rear Extension Return (3)	Line 3	0.00000	4.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
No 154	Rear Elevation (4)	Line 4	0.00000	6.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
No 154	Frontage (5)	Line 5	0.00000	9.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
Hostel	Side Elevation (6)	Line 6	0.00000	6.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
Hostel	Near Elevation (7)	Line 7	0.00000	26.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
Hostel	Side Elevation (8)	Line 8	0.00000	6.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
No 166	Frontage (9)	Line 9	0.00000	14.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
No 166	Party Wall (10)	Line 10	0.00000	9.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
No 166	Rear Elevation (11)	Line 11	0.00000	8.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
No 166	Rear Elevation (12)	Line 12	0.00000	14.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
No 166	Rear Elevation (13)	Line 13	0.00000	6.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
Gray's Inn Road Roadway			Line 14	0.00000 50.00000	0.0	0.10000	Burland Strain Limits	0.20000 2.6000

Specific Structures - Bending Parameters

Structure Name	Sub-Structure Name	Height	Default Properties	Hogging			Sagging		
				2nd Moment of Area (per unit width)	Distance of Bending Strain from N.A.	Distance of N.A. from Edge of Beam in Tension	2nd Moment of Area (per unit width)	Distance of Bending Strain from N.A.	Distance of N.A. from Edge of Beam in Tension
No 154	Party Wall (1)	[m]	12.000 Yes	[m ⁴]	[m]	[m]	[m ⁴]	[m]	[m]
No 154	Rear Elevation (2)	12.000 Yes		576.00	12.000	12.000	144.00	6.0000	6.0000
No 154	Rear Extension Return (3)	12.000 Yes		576.00	12.000	12.000	144.00	6.0000	6.0000
No 154	Rear Elevation (4)	12.000 Yes		576.00	12.000	12.000	144.00	6.0000	6.0000
No 154	Frontage (5)	12.000 Yes		576.00	12.000	12.000	144.00	6.0000	6.0000
Hostel	Side Elevation (6)	15.000 Yes		1125.0	15.000	15.000	281.25	7.5000	7.5000
Hostel	Near Elevation (7)	15.000 Yes		1125.0	15.000	15.000	281.25	7.5000	7.5000
Hostel	Side Elevation (8)	15.000 Yes		1125.0	15.000	15.000	281.25	7.5000	7.5000
No 166	Frontage (9)	18.000 Yes		1944.0	18.000	18.000	486.00	9.0000	9.0000
No 166	Party Wall (10)	18.000 Yes		1944.0	18.000	18.000	486.00	9.0000	9.0000
No 166	Rear Elevation (11)	18.000 Yes		1944.0	18.000	18.000	486.00	9.0000	9.0000
No 166	Rear Elevation (12)	18.000 Yes		1944.0	18.000	18.000	486.00	9.0000	9.0000
No 166	Rear Elevation (13)	18.000 Yes		1944.0	18.000	18.000	486.00	9.0000	9.0000
Gray's Inn Road Roadway		0.50000 Yes		0.041667	0.50000	0.50000	0.010417	0.25000	0.25000

Building Segment Combinations

Structure Name	Sub-Structure Name	Vertical Offset from Line for Vertical Movement Calculations	Segment Start	Length	Curvature	Combined Segment
		[m]	[m]	[m]		
No structures have segments combined.						

Utility Strain Calculation Options

Neglect beneficial contribution of axial strains : No

Warnings

- Multiple excavations have been specified. The displacements resulting from these excavations are calculated by summing the displacements resulting from each individual excavation. No account has been taken of the interactions between excavations (e.g. overlapping zones of influence or 'shielding' of one excavation by another).
- Embedded Wall Excavation PE1 : Area 1 - Excavation Phase intersects PE2 : Area 2 - Excavation, , PE4 : Area 2 - Underpinning, , PE5 : Area 2 - Underpinning of Panther House Basement, and PE6 : Area 2 - Excavation beneath Panther House Basement.
- Embedded Wall Excavation PE2 : Area 2 - Excavation intersects PE1 : Area 1 - Excavation Phase, , PE3 : Area 1 - Pile Installation, and PE7 : Area 1 - Underpinning.
- Embedded Wall Excavation PE3 : Area 1 - Pile Installation intersects PE2 : Area 2 - Excavation, , PE4 : Area 2 - Underpinning, , PE5 : Area 2 - Underpinning of Panther House Basement, and PE6 : Area 2 - Excavation beneath Panther House Basement.
- Embedded Wall Excavation PE4 : Area 2 - Underpinning intersects PE1 : Area 1 - Excavation Phase, , PE3 : Area 1 - Pile Installation, and PE7 : Area 1 - Underpinning.
- Embedded Wall Excavation PE5 : Area 2 - Underpinning of Panther House Basement intersects PE1 : Area 1 - Excavation Phase, , PE3 : Area 1 - Pile Installation, and PE7 : Area 1 - Underpinning.
- Embedded Wall Excavation PE6 : Area 2 - Excavation beneath Panther House Basement intersects PE1 : Area 1 - Excavation Phase, , PE3 : Area 1 - Pile Installation, and PE7 : Area 1 - Underpinning.
- Embedded Wall Excavation PE7 : Area 1 - Underpinning intersects PE2 : Area 2 - Excavation, , PE4 : Area 2 - Underpinning, , PE5 : Area 2 - Underpinning of Panther House Basement, and PE6 : Area 2 - Excavation beneath Panther House Basement.
- If an embedded wall excavation is assigned a 'surface' ground movement curve and if the 'allow movement calculation to level' option is checked for the excavation then displacements induced by it are calculated for points at the surface, and points below the surface to the level specified. Others are ignored. An example of such a combination, for which displacements will not be calculated is Excavation XP2/Side 1/Vertical. This is an example only. There are 151 others.
- If an embedded wall excavation is assigned a 'sub-surface' ground movement curve then displacements induced by it can only be calculated for those points that are level with or below the embedded wall excavation's 'surface level'. Others are ignored. An example of such a combination, for which displacements will not be calculated is Excavation XP2/Side 2/Grid 1/Vertical. This is an example only. There are 279 others.

Errors

None



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

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Structure Name	Sub-Structure Name	Vertical Offset from Line for Vertical	Segment Start	Length	Curvature	Combined Segment					
Displacement and Strain Results											
Type/No.		Coordinates			Displacements				Angle of Line		
Name	Dist.	x	y	z	x	y	z	Horizontal displacement along Line	Horizontal displacement perpendicular to Line	to x Axis	
	[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	
Grid 1	Grid 1	-25.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-24.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-23.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-22.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-21.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-20.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-19.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-18.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-17.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-16.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-15.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-14.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-13.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-12.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-11.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-10.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-9.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-8.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-7.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-6.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-5.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-4.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-3.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-2.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-1.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		0.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		1.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		2.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		3.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		4.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		5.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		6.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		7.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		8.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		9.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		10.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		11.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		12.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		13.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		14.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		15.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		16.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		17.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		18.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		19.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		20.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		21.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		22.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		23.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		24.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		25.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		26.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		27.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		28.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		29.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		30.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		31.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		32.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		33.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		34.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		35.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		36.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		37.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		38.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		39.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		40.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		41.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		42.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		43.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		44.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		45.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		46.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		47.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		48.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		49.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		50.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		51.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		52.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		53.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		54.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		55.00000	-20.00000	18.50000	0.0	0.0	0.0	0.0	-	-	-
		-25.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-24.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-23.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-22.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-21.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-20.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-19.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-18.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-17.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-16.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-15.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-14.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-13.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-12.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-11.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-10.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-9.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-8.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-7.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-6.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-5.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-4.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-3.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-2.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		-1.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		0.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		1.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		2.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		3.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		4.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		5.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		6.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		7.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		8.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		9.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0	-	-	-
		10.00000	-19.00000	18.49231	0.0	0.0	0.0	0.0			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line to x Axis	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		14.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		15.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		16.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		17.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		18.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		19.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		20.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		21.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		22.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		23.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		24.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		25.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		26.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		27.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		28.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		29.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		30.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		31.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		32.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		33.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		34.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		35.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		36.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		37.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		38.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		39.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		40.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		41.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		42.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		43.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		44.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		45.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		46.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		47.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		48.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		49.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		50.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		51.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		52.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		53.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		54.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		55.00000	-19.00000	18.49231	0.0	0.0	0.0	-	-
		-25.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-24.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-23.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-22.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-21.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-20.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-19.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-18.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-17.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-16.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-15.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-14.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-13.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-12.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-11.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-10.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-9.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-8.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-7.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-6.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-5.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-4.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-3.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-2.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-1.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		0.00000	-18.00000	18.48462	0.0	0.0	0.0025890	-	-
		1.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		2.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		3.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		4.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		5.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		6.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		7.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		8.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		9.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		10.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		11.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		12.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		13.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		14.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		15.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		16.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		17.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		18.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		19.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		20.00000	-18.00000	18.48462	0.0	0.0	0.0051780	-	-
		21.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		22.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		23.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		24.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		25.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		26.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		27.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		28.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		29.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		30.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		31.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		32.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		33.00000	-18.00000	18.48462	0.0	0.0	0.0038642	-	-
		34.00000	-18.00000	18.48462	0.0	0.0	0.0025890	-	-
		35.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		36.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		37.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		38.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		39.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		40.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		41.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		42.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		43.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		44.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		45.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		46.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		47.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		48.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		49.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		50.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		51.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		52.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		53.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		54.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		55.00000	-18.00000	18.48462	0.0	0.0	0.0	-	-
		-25.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-24.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-23.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-22.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-21.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-20.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-19.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-18.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-17.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-16.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-15.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-14.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-13.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-12.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-11.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-10.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-9.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-8.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-7.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-6.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-5.00000	-17.00000	18.47692	0.0095590	0.054279	0.014473	-	-
		-4.00000	-17.00000	18.47692	0.014778	0.10978	0.024144	-	-
		-3.00000	-17.00000	18.47692	0.015373	0.15943	0.031130	-	-
		-2.00000	-17.00000	18.47692	0.012340	0.20106	0.036077	-	-
		-1.00000	-17.00000	18.47692	0.0068074	0.23243	0.039299	-	-
		0.00000	-17.00000	18.47692	0.0	0.25125	0.040894	-	-
		1.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		2.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		3.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		4.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		5.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		6.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		7.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		8.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		9.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		10.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		11.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		12.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		13.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		14.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		15.00000	-17.00000	18.47692	0.0	0.42928	0.073341	-	-
		16.00000	-17.00000	18.47692	0.0	0.48478	0.082315	-	-
		17.00000	-17.00000	18.47692	0.0	0.53443	0.089428	-	-
		18.00000	-17.00000	18.47692	0.0	0.57606	0.095026	-	-
		19.00000	-17.00000	18.47692	0.0	0.60743	0.099216	-	-
		20.00000	-17.00000	18.47692	0.0	0.50250	0.081787	-	-
		21.00000	-17.00000	18.47692	0.0	0.60743	0.099216	-	-
		22.00000	-17.00000	18.47692	0.0	0.57606	0.095026	-	-
		23.00000	-17.00000	18.47692	0.0	0.53443	0.089428	-	-
		24.00000	-17.00000	18.47692	0.0	0.48478	0.082315	-	-
		25.00000	-17.00000	18.47692	0.0	0.42928	0.073341	-	-
		26.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		27.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		28.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		29.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		30.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		31.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		32.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		33.00000	-17.00000	18.47692	0.0	0.37500	0.061035	-	-
		34.00000	-17.00000	18.47692	0.0	0.25125	0.040894	-	-
		35.00000	-17.00000	18.47692	0.0	0.23243	0.038181	-	-
		36.00000	-17.00000	18.47692	0.0	0.20106	0.033991	-	-
		37.00000	-17.00000	18.47692	0.0	0.15943	0.028399	-	-
		38.00000	-17.00000	18.47692	0.0	0.10978	0.021280	-	-
		39.00000	-17.00000	18.47692	0.0	0.054279	0.012306	-	-
		40.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		41.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		42.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		43.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		44.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		45.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		46.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		47.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		48.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		49.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		50.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		51.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		52.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		53.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		54.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		55.00000	-17.00000	18.47692	0.0	0.0	0.0	-	-
		-25.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-24.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-23.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-22.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-21.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-20.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-19.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-18.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-17.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-16.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-15.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-14.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-13.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-12.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-11.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-10.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-9.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-8.00000	-16.00000	18.46923	0.0061684	0.017640	0.0069924	-	-
		-7.00000	-16.00000	18.46923	0.026374	0.090299	0.022616	-	-
		-6.00000	-16.00000	18.46923	0.039056	0.16352	0.033915	-	-
		-5.00000	-16.00000	18.46923	0.044721	0.23565	0.042659	-	-
		-4.00000	-16.00000	18.46923	0.044085	0.30472	0.049849	-	-
		-3.00000	-16.00000	18.46923	0.038080	0.36847	0.055881	-	-
		-2.00000	-16.00000	18.46923	0.027839	0.42445	0.060809	-	-
		-1.00000	-16.00000	18.46923	0.014669	0.47001	0.064458	-	-
		0.00000	-16.00000	18.46923	0.0	0.50250	0.066612	-	-
		1.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		2.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		3.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		4.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		5.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		6.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		7.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		8.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		9.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		10.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		11.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		12.00000	-16.00000	18.46923	0.0	0.76764	0.10460	-	-
		13.00000	-16.00000	18.46923	0.0	0.84030	0.11692	-	-
		14.00000	-16.00000	18.46923	0.0	0.91352	0.12680	-	-
		15.00000	-16.00000	18.46923	0.0	0.98565	0.13528	-	-
		16.00000	-16.00000	18.46923	0.0	1.0547	0.14296	-	-
		17.00000	-16.00000	18.46923	0.0	1.1185	0.15007	-	-
		18.00000	-16.00000	18.46923	0.0	1.1744	0.15649	-	-
		19.00000	-16.00000	18.46923	0.0	1.2200	0.16193	-	-
		20.00000	-16.00000	18.46923	0.0	1.0050	0.13322	-	-
		21.00000	-16.00000	18.46923	0.0	1.2220	0.116193	-	-
		22.00000	-16.00000	18.46923	0.0	1.1744	0.15649	-	-
		23.00000	-16.00000	18.46923	0.0	1.1185	0.15007	-	-
		24.00000	-16.00000	18.46923	0.0	1.0547	0.14296	-	-
		25.00000	-16.00000	18.46923	0.0	0.98565	0.13528	-	-
		26.00000	-16.00000	18.46923	0.0	0.91352	0.12680	-	-
		27.00000	-16.00000	18.46923	0.0	0.84030	0.11692	-	-
		28.00000	-16.00000	18.46923	0.0	0.76764	0.10460	-	-
		29.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		30.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		31.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		32.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		33.00000	-16.00000	18.46923	0.0	0.75000	0.099421	-	-
		34.00000	-16.00000	18.46923	0.0	0.50250	0.066612	-	-
		35.00000	-16.00000	18.46923	0.0	0.47001	0.062507	-	-
		36.00000	-16.00000	18.46923	0.0	0.42445	0.057066	-	-
		37.00000	-16.00000	18.46923	0.0	0.36847	0.050647	-	-
		38.00000	-16.00000	18.46923	0.0	0.30472	0.043543	-	-
		39.00000	-16.00000	18.46923	0.0	0.23565	0.035855	-	-
		40.00000	-16.00000	18.46923	0.0	0.16352	0.027376	-	-
		41.00000	-16.00000	18.46923	0.0	0.090299	0.017504	-	-
		42.00000	-16.00000	18.46923	0.0	0.017640	0.0051808	-	-
		43.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		44.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		45.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		46.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		47.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		48.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		49.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		50.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		51.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		52.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		53.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		54.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		55.00000	-16.00000	18.46923	0.0	0.0	0.0	-	-
		-25.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-24.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-23.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-22.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-21.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-20.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-19.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-18.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-17.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-16.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-15.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-14.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-13.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-12.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-11.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-10.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-9.00000	-15.00000	18.46154	0.032715	0.072459	0.020669	-	-
		-8.00000	-15.00000	18.46154	0.058484	0.15300	0.034421	-	-
		-7.00000	-15.00000	18.46154	0.075418	0.23687	0.045197	-	-
		-6.00000	-15.00000	18.46154	0.083777	0.32269	0.054869	-	-
		-5.00000	-15.00000	18.46154	0.084056	0.40867	0.064399	-	-
		-4.00000	-15.00000	18.46154	0.077016	0.49266	0.073755	-	-
		-3.00000	-15.00000	18.46154	0.063688	0.57212	0.082741	-	-
		-2.00000	-15.00000	18.46154	0.045366	0.64418	0.090623	-	-
		-1.00000	-15.00000	18.46154	0.023573	0.70578	0.096654	-	-
		0.00000	-15.00000	18.46154	0.0	0.75375	0.10020	-	-
		1.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		2.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		3.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		4.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		5.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		6.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		7.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		8.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		9.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		10.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		11.00000	-15.00000	18.46154	0.0	1.1975	0.16380	-	-
		12.00000	-15.00000	18.46154	0.0	1.2780	0.17446	-	-
		13.00000	-15.00000	18.46154	0.0	1.3619	0.18384	-	-
		14.00000	-15.00000	18.46154	0.0	1.4477	0.19312	-	-
		15.00000	-15.00000	18.46154	0.0	1.5337	0.20292	-	-
		16.00000	-15.00000	18.46154	0.0	1.6177	0.21334	-	-
		17.00000	-15.00000	18.46154	0.0	1.6971	0.22401	-	-
		18.00000	-15.00000	18.46154	0.0	1.7692	0.23422	-	-
		19.00000	-15.00000	18.46154	0.0	1.8308	0.24309	-	-
		20.00000	-15.00000	18.46154	0.0	1.5057	0.20041	-	-
		21.00000	-15.00000	18.46154	0.0	1.8308	0.24309	-	-
		22.00000	-15.00000	18.46154	0.0	1.7692	0.23422	-	-
		23.00000	-15.00000	18.46154	0.0	1.6971	0.22401	-	-
		24.00000	-15.00000	18.46154	0.0	1.6177	0.21334	-	-
		25.00000	-15.00000	18.46154	0.0	1.5337	0.20292	-	-
		26.00000	-15.00000	18.46154	0.0	1.4477	0.19312	-	-
		27.00000	-15.00000	18.46154	0.0	1.3619	0.18384	-	-
		28.00000	-15.00000	18.46154	0.0	1.2780	0.17446	-	-
		29.00000	-15.00000	18.46154	0.0	1.1975	0.16380	-	-
		30.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		31.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		32.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		33.00000	-15.00000	18.46154	0.0	1.1250	0.14956	-	-
		34.00000	-15.00000	18.46154	0.0	0.75375	0.10020	-	-
		35.00000	-15.00000	18.46154	0.0	0.70578	0.096654	-	-
		36.00000	-15.00000	18.46154	0.0	0.64418	0.084661	-	-
		37.00000	-15.00000	18.46154	0.0	0.57212	0.074453	-	-
		38.00000	-15.00000	18.46154	0.0	0.49266	0.063784	-	-
		39.00000	-15.00000	18.46154	0.0	0.40867	0.053363	-	-
		40.00000	-15.00000	18.46154	0.0	0.32269	0.043560	-	-
		41.00000	-15.00000	18.46154	0.0	0.23687	0.034282	-	-
		42.00000	-15.00000	18.46154	0.0	0.15300	0.024902	-	-
		43.00000	-15.00000	18.46154	0.0	0.072459	0.014240	-	-
		44.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		45.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		46.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		47.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		48.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		49.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		50.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		51.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		52.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		53.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		54.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		55.00000	-15.00000	18.46154	0.0	0.0	0.0	-	-
		-25.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-24.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-23.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-22.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-21.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-20.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-19.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-18.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-17.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-16.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-15.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-14.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-13.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-12.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-11.00000	-14.00000	18.45385	0.015542	0.023011	0.0095675	-	-
		-10.00000	-14.00000	18.45385	0.058885	0.10090	0.027852	-	-
		-9.00000	-14.00000	18.45385	0.092524	0.18543	0.041057	-	-
		-8.00000	-14.00000	18.45385	0.11622	0.27596	0.052729	-	-
		-7.00000	-14.00000	18.45385	0.12992	0.37155	0.065034	-	-
		-6.00000	-14.00000	18.45385	0.13380	0.47078	0.078941	-	-
		-5.00000	-14.00000	18.45385	0.12832	0.57182	0.098093	-	-
		-4.00000	-14.00000	18.45385	0.11427	0.67227	0.12050	-	-
		-3.00000	-14.00000	18.45385	0.092781	0.76927	0.13811	-	-
		-2.00000	-14.00000	18.45385	0.065343	0.85951	0.15033	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-1.00000	-14.00000	18.45385	0.033743	0.93935	0.15677	-	-
		0.00000	-14.00000	18.45385	0.0	1.0050	0.15745	-	-
		1.00000	-14.00000	18.45385	0.0	1.5000	0.23501	-	-
		2.00000	-14.00000	18.45385	0.0	1.5000	0.23501	-	-
		3.00000	-14.00000	18.45385	0.0	1.5000	0.23501	-	-
		4.00000	-14.00000	18.45385	0.0	1.5000	0.23501	-	-
		5.00000	-14.00000	18.45385	0.0	1.5000	0.23501	-	-
		6.00000	-14.00000	18.45385	0.0	1.5000	0.23501	-	-
		7.00000	-14.00000	18.45385	0.0	1.5000	0.23501	-	-
		8.00000	-14.00000	18.45385	0.0	1.5000	0.23501	-	-
		9.00000	-14.00000	18.45385	0.0	1.5230	0.24072	-	-
		10.00000	-14.00000	18.45385	0.0	1.6009	0.25260	-	-
		11.00000	-14.00000	18.45385	0.0	1.6854	0.26240	-	-
		12.00000	-14.00000	18.45385	0.0	1.7760	0.27211	-	-
		13.00000	-14.00000	18.45385	0.0	1.8715	0.28319	-	-
		14.00000	-14.00000	18.45385	0.0	1.9708	0.29648	-	-
		15.00000	-14.00000	18.45385	0.0	2.0718	0.31214	-	-
		16.00000	-14.00000	18.45385	0.0	2.1723	0.32968	-	-
		17.00000	-14.00000	18.45385	0.0	2.2693	0.34803	-	-
		18.00000	-14.00000	18.45385	0.0	2.3595	0.36572	-	-
		19.00000	-14.00000	18.45385	0.0	2.4393	0.38106	-	-
		20.00000	-14.00000	18.45385	0.0	2.0100	0.31491	-	-
		21.00000	-14.00000	18.45385	0.0	2.4393	0.38106	-	-
		22.00000	-14.00000	18.45385	0.0	2.3595	0.36572	-	-
		23.00000	-14.00000	18.45385	0.0	2.2693	0.34803	-	-
		24.00000	-14.00000	18.45385	0.0	2.1723	0.32968	-	-
		25.00000	-14.00000	18.45385	0.0	2.0718	0.31214	-	-
		26.00000	-14.00000	18.45385	0.0	1.9708	0.29648	-	-
		27.00000	-14.00000	18.45385	0.0	1.8715	0.28319	-	-
		28.00000	-14.00000	18.45385	0.0	1.7760	0.27211	-	-
		29.00000	-14.00000	18.45385	0.0	1.6854	0.26240	-	-
		30.00000	-14.00000	18.45385	0.0	1.6009	0.25260	-	-
		31.00000	-14.00000	18.45385	0.0	1.5230	0.24072	-	-
		32.00000	-14.00000	18.45385	0.0	1.5000	0.23501	-	-
		33.00000	-14.00000	18.45385	0.0	1.5000	0.23501	-	-
		34.00000	-14.00000	18.45385	0.0	1.0050	0.15745	-	-
		35.00000	-14.00000	18.45385	0.0	0.93935	0.14605	-	-
		36.00000	-14.00000	18.45385	0.0	0.85951	0.13071	-	-
		37.00000	-14.00000	18.45385	0.0	0.76927	0.11302	-	-
		38.00000	-14.00000	18.45385	0.0	0.67227	0.09468	-	-
		39.00000	-14.00000	18.45385	0.0	0.57182	0.077129	-	-
		40.00000	-14.00000	18.45385	0.0	0.47079	0.061471	-	-
		41.00000	-14.00000	18.45385	0.0	0.37155	0.048185	-	-
		42.00000	-14.00000	18.45385	0.0	0.27596	0.037103	-	-
		43.00000	-14.00000	18.45385	0.0	0.18543	0.027390	-	-
		44.00000	-14.00000	18.45385	0.0	0.10090	0.017598	-	-
		45.00000	-14.00000	18.45385	0.0	0.023011	0.0057106	-	-
		46.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		47.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		48.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		49.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		50.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		51.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		52.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		53.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		54.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		55.00000	-14.00000	18.45385	0.0	0.0	0.0	-	-
		-25.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-24.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-23.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-22.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-21.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-20.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-19.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-18.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-17.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-16.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-15.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-14.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-13.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-12.00000	-13.00000	18.44615	0.027422	0.031364	0.013024	-	-
		-11.00000	-13.00000	18.44615	0.081362	0.10718	0.030971	-	-
		-10.00000	-13.00000	18.44615	0.12513	0.19147	0.044446	-	-
		-9.00000	-13.00000	18.44615	0.15820	0.28412	0.057756	-	-
		-8.00000	-13.00000	18.44615	0.18014	0.38470	0.073621	-	-
		-7.00000	-13.00000	18.44615	0.19075	0.49239	0.10257	-	-
		-6.00000	-13.00000	18.44615	0.19006	0.60585	0.14041	-	-
		-5.00000	-13.00000	18.44615	0.17845	0.72319	0.17479	-	-
		-4.00000	-13.00000	18.44615	0.15672	0.84184	0.20445	-	-
		-3.00000	-13.00000	18.44615	0.12611	0.95854	0.22791	-	-
		-2.00000	-13.00000	18.44615	0.088319	1.06819	0.24380	-	-
		-1.00000	-13.00000	18.44615	0.045468	1.1702	0.25112	-	-
		0.00000	-13.00000	18.44615	0.0	1.2562	0.24949	-	-
		1.00000	-13.00000	18.44615	0.0	1.8750	0.37237	-	-
		2.00000	-13.00000	18.44615	0.0	1.8750	0.37237	-	-
		3.00000	-13.00000	18.44615	0.0	1.8750	0.37237	-	-
		4.00000	-13.00000	18.44615	0.0	1.8750	0.37237	-	-
		5.00000	-13.00000	18.44615	0.0	1.8750	0.37237	-	-
		6.00000	-13.00000	18.44615	0.0	1.8750	0.37237	-	-
		7.00000	-13.00000	18.44615	0.0	1.8750	0.37237	-	-
		8.00000	-13.00000	18.44615	0.0	1.9064	0.37932	-	-
		9.00000	-13.00000	18.44615	0.0	1.9822	0.38998	-	-
		10.00000	-13.00000	18.44615	0.0	2.0665	0.39925	-	-
		11.00000	-13.00000	18.44615	0.0	2.1591	0.40947	-	-
		12.00000	-13.00000	18.44615	0.0	2.2597	0.42252	-	-
		13.00000	-13.00000	18.44615	0.0	2.3674	0.43964	-	-
		14.00000	-13.00000	18.44615	0.0	2.4809	0.46139	-	-
		15.00000	-13.00000	18.44615	0.0	2.5982	0.48745	-	-
		16.00000	-13.00000	18.44615	0.0	2.7168	0.51673	-	-
		17.00000	-13.00000	18.44615	0.0	2.8335	0.54734	-	-
		18.00000	-13.00000	18.44615	0.0	2.9444	0.57686	-	-
		19.00000	-13.00000	18.44615	0.0	3.0452	0.60257	-	-
		20.00000	-13.00000	18.44615	0.0	2.5125	0.49898	-	-
		21.00000	-13.00000	18.44615	0.0	3.0452	0.60257	-	-
		22.00000	-13.00000	18.44615	0.0	2.9444	0.57686	-	-
		23.00000	-13.00000	18.44615	0.0	2.8335	0.54734	-	-
		24.00000	-13.00000	18.44615	0.0	2.7168	0.51673	-	-
		25.00000	-13.00000	18.44615	0.0	2.5982	0.48745	-	-
		26.00000	-13.00000	18.44615	0.0	2.4809	0.46139	-	-
		27.00000	-13.00000	18.44615	0.0	2.3674	0.43964	-	-
		28.00000	-13.00000	18.44615	0.0	2.2597	0.42252	-	-
		29.00000	-13.00000	18.44615	0.0	2.1591	0.40947	-	-
		30.00000	-13.00000	18.44615	0.0	2.0665	0.39925	-	-
		31.00000	-13.00000	18.44615	0.0	1.9822	0.38998	-	-
		32.00000	-13.00000	18.44615	0.0	1.9064	0.37932	-	-
		33.00000	-13.00000	18.44615	0.0	1.8750	0.37237	-	-
		34.00000	-13.00000	18.44615	0.0	1.2562	0.24949	-	-
		35.00000	-13.00000	18.44615	0.0	1.1702	0.23020	-	-
		36.00000	-13.00000	18.44615	0.0	1.0694	0.20448	-	-
		37.00000	-13.00000	18.44615	0.0	0.95854	0.17496	-	-
		38.00000	-13.00000	18.44615	0.0	0.84184	0.14335	-	-
		39.00000	-13.00000	18.44615	0.0	0.72319	0.11508	-	-
		40.00000	-13.00000	18.44615	0.0	0.60585	0.089013	-	-
		41.00000	-13.00000	18.44615	0.0	0.49239	0.067270	-	-
		42.00000	-13.00000	18.44615	0.0	0.38470	0.050141	-	-
		43.00000	-13.00000	18.44615	0.0	0.28412	0.037099	-	-
		44.00000	-13.00000	18.44615	0.0	0.19147	0.026879	-	-
		45.00000	-13.00000	18.44615	0.0	0.10718	0.017606	-	-
		46.00000	-13.00000	18.44615	0.0	0.031364	0.0069484	-	-
		47.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		48.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		49.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		50.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		51.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		52.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		53.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		54.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		55.00000	-13.00000	18.44615	0.0	0.0	0.0	-	-
		-25.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-24.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-23.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-22.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-21.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-20.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-19.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-18.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-17.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-16.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-15.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-14.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-13.00000	-12.00000	18.43846	0.031364	0.027422	0.013024	-	-
		-12.00000	-12.00000	18.43846	0.096510	0.096510	0.031134	-	-
		-11.00000	-12.00000	18.43846	0.15243	0.17636	0.045193	-	-
		-10.00000	-12.00000	18.43846	0.19733	0.26634	0.060087	-	-
		-9.00000	-12.00000	18.43846	0.23044	0.36662	0.079371	-	-
		-8.00000	-12.00000	18.43846	0.25132	0.47704	0.13200	-	-
		-7.00000	-12.00000	18.43846	0.25892	0.59704	0.18383	-	-
		-6.00000	-12.00000	18.43846	0.25367	0.72546	0.23393	-	-
		-5.00000	-12.00000	18.43846	0.23562	0.86040	0.28050	-	-
		-4.00000	-12.00000	18.43846	0.20551	0.99916	0.32127	-	-
		-3.00000	-12.00000	18.43846	0.16465	1.1381	0.35381	-	-
		-2.00000	-12.00000	18.43846	0.11502	1.2727	0.37589	-	-
		-1.00000	-12.00000	18.43846	0.059133	1.3977	0.38582	-	-
		0.00000	-12.00000	18.43846	0.0	1.5075	0.38276	-	-
		1.00000	-12.00000	18.43846	0.0	2.2500	0.57129	-	-
		2.00000	-12.00000	18.43846	0.0	2.2500	0.57129	-	-
		3.00000	-12.00000	18.43846	0.0	2.2500	0.57129	-	-
		4.00000	-12.00000	18.43846	0.0	2.2500	0.57129	-	-
		5.00000	-12.00000	18.43846	0.0	2.2500	0.57129	-	-
		6.00000	-12.00000	18.43846	0.0	2.2500	0.57129	-	-
		7.00000	-12.00000	18.43846	0.0	2.2774	0.57737	-	-
		8.00000	-12.00000	18.43846	0.0	2.3465	0.58686	-	-
		9.00000	-12.00000	18.43846	0.0	2.4264	0.59553	-	-
		10.00000	-12.00000	18.43846	0.0	2.5163	0.60581	-	-
		11.00000	-12.00000	18.43846	0.0	2.6166	0.62003	-	-
		12.00000	-12.00000	18.43846	0.0	2.7270	0.64005	-	-
		13.00000	-12.00000	18.43846	0.0	2.8470	0.66705	-	-
		14.00000	-12.00000	18.43846	0.0	2.9755	0.70132	-	-
		15.00000	-12.00000	18.43846	0.0	3.1104	0.74217	-	-
		16.00000	-12.00000	18.43846	0.0	3.2492	0.78783	-	-
		17.00000	-12.00000	18.43846	0.0	3.3881	0.83558	-	-
		18.00000	-12.00000	18.43846	0.0	3.5227	0.88186	-	-
		19.00000	-12.00000	18.43846	0.0	3.6477	0.92268	-	-
		20.00000	-12.00000	18.43846	0.0	3.0150	0.76553	-	-
		21.00000	-12.00000	18.43846	0.0	3.6477	0.92268	-	-
		22.00000	-12.00000	18.43846	0.0	3.5227	0.88186	-	-
		23.00000	-12.00000	18.43846	0.0	3.3881	0.83558	-	-
		24.00000	-12.00000	18.43846	0.0	3.2492	0.78783	-	-
		25.00000	-12.00000	18.43846	0.0	3.1104	0.74217	-	-
		26.00000	-12.00000	18.43846	0.0	2.9755	0.70132	-	-
		27.00000	-12.00000	18.43846	0.0	2.8470	0.66705	-	-
		28.00000	-12.00000	18.43846	0.0	2.7270	0.64005	-	-
		29.00000	-12.00000	18.43846	0.0	2.6166	0.62003	-	-
		30.00000	-12.00000	18.43846	0.0	2.5163	0.60581	-	-
		31.00000	-12.00000	18.43846	0.0	2.4264	0.59553	-	-
		32.00000	-12.00000	18.43846	0.0	2.3465	0.58686	-	-
		33.00000	-12.00000	18.43846	0.0	2.2774	0.57737	-	-
		34.00000	-12.00000	18.43846	0.0	1.5075	0.38276	-	-
		35.00000	-12.00000	18.43846	0.0	1.3977	0.35139	-	-
		36.00000	-12.00000	18.43846	0.0	1.2727	0.31057	-	-
		37.00000	-12.00000	18.43846	0.0	1.1381	0.26429	-	-
		38.00000	-12.00000	18.43846	0.0	0.99916	0.21654	-	-
		39.00000	-12.00000	18.43846	0.0	0.86040	0.17088	-	-
		40.00000	-12.00000	18.43846	0.0	0.72546	0.13003	-	-
		41.00000	-12.00000	18.43846	0.0	0.59704	0.095763	-	-
		42.00000	-12.00000	18.43846	0.0	0.47704	0.068764	-	-
		43.00000	-12.00000	18.43846	0.0	0.36662	0.048737	-	-
		44.00000	-12.00000	18.43846	0.0	0.26634	0.034515	-	-
		45.00000	-12.00000	18.43846	0.0	0.17636	0.024241	-	-
		46.00000	-12.00000	18.43846	0.0	0.096510	0.015567	-	-
		47.00000	-12.00000	18.43846	0.0	0.027422	0.0060752	-	-
		48.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		49.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		50.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		51.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		52.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		53.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		54.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		55.00000	-12.00000	18.43846	0.0	0.0	0.0	-	-
		-25.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		-24.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		-23.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		-22.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		-21.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		-20.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		-19.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		-18.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		-17.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		-16.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		-15.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		-14.00000	-11.00000	18.43077	0.023011	0.015243	0.0095675	-	-
		-13.00000	-11.00000	18.43077	0.10718	0.081362	0.030971	-	-
		-12.00000	-11.00000	18.43077	0.17636	0.15243	0.045193	-	-
		-11.00000	-11.00000	18.43077	0.22909	0.22909	0.059326	-	-
		-10.00000	-11.00000	18.43077	0.27601	0.32371	0.088755	-	-
		-9.00000	-11.00000	18.43077	0.31000	0.43076	0.15403	-	-
		-8.00000	-11.00000	18.43077	0.33014	0.55049	0.22098	-	-
		-7.00000	-11.00000	18.43077	0.33564	0.68272	0.28879	-	-
		-6.00000	-11.00000	18.43077	0.32604	0.82660	0.35544	-	-
		-5.00000	-11.00000	18.43077	0.30132	0.98042	0.41808	-	-
		-4.00000	-11.00000	18.43077	0.26208	1.1414	0.47335	-	-
		-3.00000	-11.00000	18.43077	0.20970	1.3055	0.51782	-	-
		-2.00000	-11.00000	18.43077	0.14787	1.4675	0.54837	-	-
		-1.00000	-11.00000	18.43077	0.077372	1.6209	0.56257	-	-
		0.00000	-11.00000	18.43077	0.0	1.7587	0.55906	-	-
		1.00000	-11.00000	18.43077	0.0	2.6250	0.83442	-	-
		2.00000	-11.00000	18.43077	0.0	2.6250	0.83442	-	-
		3.00000	-11.00000	18.43077	0.0	2.6250	0.83442	-	-
		4.00000	-11.00000	18.43077	0.0	2.6250	0.83442	-	-
		5.00000	-11.00000	18.43077	0.0	2.6250	0.83442	-	-
		6.00000	-11.00000	18.43077	0.0	2.6465	0.83828	-	-
		7.00000	-11.00000	18.43077	0.0	2.7064	0.84778	-	-
		8.00000	-11.00000	18.43077	0.0	2.7774	0.85537	-	-
		9.00000	-11.00000	18.43077	0.0	2.8541	0.86408	-	-
		10.00000	-11.00000	18.43077	0.0	2.9487	0.87808	-	-
		11.00000	-11.00000	18.43077	0.0	3.0558	0.89900	-	-
		12.00000	-11.00000	18.43077	0.0	3.1755	0.92881	-	-
		13.00000	-11.00000	18.43077	0.0	3.3077	0.96872	-	-
		14.00000	-11.00000	18.43077	0.0	3.4516	1.0189	-	-
		15.00000	-11.00000	18.43077	0.0	3.6054	1.0785	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		16.00000	-11.00000	18.43077	0.0	3.7664	1.1450	-	-
		17.00000	-11.00000	18.43077	0.0	3.9305	1.2149	-	-
		18.00000	-11.00000	18.43077	0.0	4.0925	1.2833	-	-
		19.00000	-11.00000	18.43077	0.0	4.2459	1.3448	-	-
		20.00000	-11.00000	18.43077	0.0	3.5175	1.1181	-	-
		21.00000	-11.00000	18.43077	0.0	4.2459	1.3448	-	-
		22.00000	-11.00000	18.43077	0.0	4.0925	1.2833	-	-
		23.00000	-11.00000	18.43077	0.0	3.9305	1.2149	-	-
		24.00000	-11.00000	18.43077	0.0	3.7664	1.1450	-	-
		25.00000	-11.00000	18.43077	0.0	3.6054	1.0785	-	-
		26.00000	-11.00000	18.43077	0.0	3.4516	1.0189	-	-
		27.00000	-11.00000	18.43077	0.0	3.3077	0.96872	-	-
		28.00000	-11.00000	18.43077	0.0	3.1755	0.92881	-	-
		29.00000	-11.00000	18.43077	0.0	3.0558	0.89900	-	-
		30.00000	-11.00000	18.43077	0.0	2.9487	0.87808	-	-
		31.00000	-11.00000	18.43077	0.0	2.8541	0.86408	-	-
		32.00000	-11.00000	18.43077	0.0	2.7774	0.85537	-	-
		33.00000	-11.00000	18.43077	0.0	2.7064	0.84778	-	-
		34.00000	-11.00000	18.43077	0.0	1.7743	0.56292	-	-
		35.00000	-11.00000	18.43077	0.0	1.6209	0.51035	-	-
		36.00000	-11.00000	18.43077	0.0	1.4675	0.44891	-	-
		37.00000	-11.00000	18.43077	0.0	1.3055	0.38047	-	-
		38.00000	-11.00000	18.43077	0.0	1.1414	0.31058	-	-
		39.00000	-11.00000	18.43077	0.0	0.98042	0.24404	-	-
		40.00000	-11.00000	18.43077	0.0	0.82660	0.18451	-	-
		41.00000	-11.00000	18.43077	0.0	0.68272	0.13430	-	-
		42.00000	-11.00000	18.43077	0.0	0.55049	0.094395	-	-
		43.00000	-11.00000	18.43077	0.0	0.43076	0.064586	-	-
		44.00000	-11.00000	18.43077	0.0	0.32371	0.043663	-	-
		45.00000	-11.00000	18.43077	0.0	0.22909	0.029663	-	-
		46.00000	-11.00000	18.43077	0.0	0.15243	0.020952	-	-
		47.00000	-11.00000	18.43077	0.0	0.081362	0.013365	-	-
		48.00000	-11.00000	18.43077	0.0	0.015542	0.0038569	-	-
		49.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		50.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		51.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		52.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		53.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		54.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		55.00000	-11.00000	18.43077	0.0	0.0	0.0	-	-
		-25.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		-24.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		-23.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		-22.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		-21.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		-20.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		-19.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		-18.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		-17.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		-16.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		-15.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		-14.00000	-10.00000	18.42308	0.10090	0.058885	0.027852	-	-
		-13.00000	-10.00000	18.42308	0.19147	0.12513	0.044446	-	-
		-12.00000	-10.00000	18.42308	0.26634	0.19733	0.060087	-	-
		-11.00000	-10.00000	18.42308	0.32371	0.27601	0.090114	-	-
		-10.00000	-10.00000	18.42308	0.36167	0.36167	0.163662	-	-
		-9.00000	-10.00000	18.42308	0.39769	0.47416	0.24505	-	-
		-8.00000	-10.00000	18.42308	0.41831	0.60217	0.33048	-	-
		-7.00000	-10.00000	18.42308	0.42234	0.74607	0.41807	-	-
		-6.00000	-10.00000	18.42308	0.40886	0.90557	0.50476	-	-
		-5.00000	-10.00000	18.42308	0.38120	1.0794	0.58657	-	-
		-4.00000	-10.00000	18.42308	0.34892	1.2648	0.65907	-	-
		-3.00000	-10.00000	18.42308	0.28946	1.4575	0.71777	-	-
		-2.00000	-10.00000	18.42308	0.20708	1.6514	0.75863	-	-
		-1.00000	-10.00000	18.42308	0.10797	1.8386	0.77851	-	-
		0.00000	-10.00000	18.42308	0.0	2.0100	0.77550	-	-
		1.00000	-10.00000	18.42308	0.0	3.0000	1.1575	-	-
		2.00000	-10.00000	18.42308	0.0	3.0000	1.1575	-	-
		3.00000	-10.00000	18.42308	0.0	3.0000	1.1575	-	-
		4.00000	-10.00000	18.42308	0.0	3.0000	1.1575	-	-
		5.00000	-10.00000	18.42308	0.0	3.0000	1.1575	-	-
		6.00000	-10.00000	18.42308	0.0	3.0589	1.1677	-	-
		7.00000	-10.00000	18.42308	0.0	3.1251	1.1750	-	-
		8.00000	-10.00000	18.42308	0.0	3.1973	1.1830	-	-
		9.00000	-10.00000	18.42308	0.0	3.2760	1.1947	-	-
		10.00000	-10.00000	18.42308	0.0	3.3617	1.2125	-	-
		11.00000	-10.00000	18.42308	0.0	3.4742	1.2417	-	-
		12.00000	-10.00000	18.42308	0.0	3.6022	1.2830	-	-
		13.00000	-10.00000	18.42308	0.0	3.7461	1.3377	-	-
		14.00000	-10.00000	18.42308	0.0	3.9056	1.4063	-	-
		15.00000	-10.00000	18.42308	0.0	4.0794	1.4876	-	-
		16.00000	-10.00000	18.42308	0.0	4.2648	1.5790	-	-
		17.00000	-10.00000	18.42308	0.0	4.4575	1.6759	-	-
		18.00000	-10.00000	18.42308	0.0	4.6514	1.7722	-	-
		19.00000	-10.00000	18.42308	0.0	4.8386	1.8605	-	-
		20.00000	-10.00000	18.42308	0.0	4.0200	1.5510	-	-
		21.00000	-10.00000	18.42308	0.0	4.8386	1.8605	-	-
		22.00000	-10.00000	18.42308	0.0	4.6514	1.7722	-	-
		23.00000	-10.00000	18.42308	0.0	4.4575	1.6759	-	-
		24.00000	-10.00000	18.42308	0.0	4.2648	1.5790	-	-
		25.00000	-10.00000	18.42308	0.0	4.0794	1.4876	-	-
		26.00000	-10.00000	18.42308	0.0	3.9056	1.4063	-	-
		27.00000	-10.00000	18.42308	0.0	3.7461	1.3377	-	-
		28.00000	-10.00000	18.42308	0.0	3.6022	1.2830	-	-
		29.00000	-10.00000	18.42308	0.0	3.4742	1.2417	-	-
		30.00000	-10.00000	18.42308	0.0	3.3617	1.2125	-	-
		31.00000	-10.00000	18.42308	0.0	3.2760	1.1947	-	-
		32.00000	-10.00000	18.42308	0.0	3.1973	1.1830	-	-
		33.00000	-10.00000	18.42308	0.0	3.1251	1.1750	-	-
		34.00000	-10.00000	18.42308	0.0	2.0689	0.78576	-	-
		35.00000	-10.00000	18.42308	0.0	1.8386	0.70308	-	-
		36.00000	-10.00000	18.42308	0.0	1.6514	0.61477	-	-
		37.00000	-10.00000	18.42308	0.0	1.4575	0.51846	-	-
		38.00000	-10.00000	18.42308	0.0	1.2648	0.42155	-	-
		39.00000	-10.00000	18.42308	0.0	1.0794	0.33019	-	-
		40.00000	-10.00000	18.42308	0.0	0.90557	0.24895	-	-
		41.00000	-10.00000	18.42308	0.0	0.74607	0.18026	-	-
		42.00000	-10.00000	18.42308	0.0	0.60217	0.12550	-	-
		43.00000	-10.00000	18.42308	0.0	0.47416	0.084229	-	-
		44.00000	-10.00000	18.42308	0.0	0.36167	0.055002	-	-
		45.00000	-10.00000	18.42308	0.0	0.27601	0.037228	-	-
		46.00000	-10.00000	18.42308	0.0	0.19733	0.025572	-	-
		47.00000	-10.00000	18.42308	0.0	0.12513	0.017567	-	-
		48.00000	-10.00000	18.42308	0.0	0.058885	0.010264	-	-
		49.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		50.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		51.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		52.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		53.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		54.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		55.00000	-10.00000	18.42308	0.0	0.0	0.0	-	-
		-25.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		-24.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		-23.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		-22.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		-21.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		-20.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		-19.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		-18.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		-17.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		-16.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		-15.00000	-9.00000	18.41538	0.072459	0.032715	0.020669	-	-
		-14.00000	-9.00000	18.41538	0.18543	0.092524	0.041057	-	-
		-13.00000	-9.00000	18.41538	0.28412	0.15820	0.057756	-	-
		-12.00000	-9.00000	18.41538	0.36662	0.23044	0.079371	-	-
		-11.00000	-9.00000	18.41538	0.43076	0.31000	0.17077	-	-
		-10.00000	-9.00000	18.41538	0.47416	0.39769	0.26239	-	-
		-9.00000	-9.00000	18.41538	0.49426	0.49426	0.35209	-	-
		-8.00000	-9.00000	18.41538	0.51681	0.62881	0.45908	-	-
		-7.00000	-9.00000	18.41538	0.52064	0.78313	0.56925	-	-
		-6.00000	-9.00000	18.41538	0.53291	0.95779	0.67845	-	-
		-5.00000	-9.00000	18.41538	0.52055	1.1523	0.78159	-	-
		-4.00000	-9.00000	18.41538	0.47247	1.3643	0.87311	-	-
		-3.00000	-9.00000	18.41538	0.39047	1.5896	0.94750	-	-
		-2.00000	-9.00000	18.41538	0.27898	1.8211	0.99984	-	-
		-1.00000	-9.00000	18.41538	0.14542	2.0488	1.0263	-	-
		0.00000	-9.00000	18.41538	0.0	2.2612	1.0245	-	-
		1.00000	-9.00000	18.41538	0.0	3.3750	1.5291	-	-
		2.00000	-9.00000	18.41538	0.0	3.3750	1.5291	-	-
		3.00000	-9.00000	18.41538	0.0	3.3750	1.5291	-	-
		4.00000	-9.00000	18.41538	0.0	3.3750	1.5291	-	-
		5.00000	-9.00000	18.41538	0.0	3.4077	1.5356	-	-
		6.00000	-9.00000	18.41538	0.0	3.4675	1.5428	-	-
		7.00000	-9.00000	18.41538	0.0	3.5332	1.5498	-	-
		8.00000	-9.00000	18.41538	0.0	3.6054	1.5598	-	-
		9.00000	-9.00000	18.41538	0.0	3.6850	1.5756	-	-
		10.00000	-9.00000	18.41538	0.0	3.7727	1.5998	-	-
		11.00000	-9.00000	18.41538	0.0	3.8693	1.6342	-	-
		12.00000	-9.00000	18.41538	0.0	4.0038	1.6872	-	-
		13.00000	-9.00000	18.41538	0.0	4.1581	1.7574	-	-
		14.00000	-9.00000	18.41538	0.0	4.3328	1.8454	-	-
		15.00000	-9.00000	18.41538	0.0	4.5273	1.9504	-	-
		16.00000	-9.00000	18.41538	0.0	4.7393	2.0696	-	-
		17.00000	-9.00000	18.41538	0.0	4.9646	2.1979	-	-
		18.00000	-9.00000	18.41538	0.0	5.1961	2.3279	-	-
		19.00000	-9.00000	18.41538	0.0	5.4238	2.4500	-	-
		20.00000	-9.00000	18.41538	0.0	5.5225	2.0490	-	-
		21.00000	-9.00000	18.41538	0.0	5.4238	2.4500	-	-
		22.00000	-9.00000	18.41538	0.0	5.1961	2.3279	-	-
		23.00000	-9.00000	18.41538	0.0	4.9646	2.1979	-	-
		24.00000	-9.00000	18.41538	0.0	4.7393	2.0696	-	-
		25.00000	-9.00000	18.41538	0.0	4.5273	1.9504	-	-
		26.00000	-9.00000	18.41538	0.0	4.3328	1.8454	-	-
		27.00000	-9.00000	18.41538	0.0	4.1581	1.7574	-	-
		28.00000	-9.00000	18.41538	0.0	4.0038	1.6872	-	-
		29.00000	-9.00000	18.41538	0.0	3.8693	1.6342	-	-
		30.00000	-9.00000	18.41538	0.0	3.7727	1.5998	-	-
		31.00000	-9.00000	18.41538	0.0	3.6850	1.5756	-	-
		32.00000	-9.00000	18.41538	0.0	3.6054	1.5598	-	-
		33.00000	-9.00000	18.41538	0.0	3.5332	1.5498	-	-
		34.00000	-9.00000	18.41538	0.0	3.4675	1.5428	-	-
		35.00000	-9.00000	18.41538	0.0	2.0816	0.92728	-	-
		36.00000	-9.00000	18.41538	0.0	1.8211	0.79873	-	-
		37.00000	-9.00000	18.41538	0.0	1.5896	0.66878	-	-
		38.00000	-9.00000	18.41538	0.0	1.3643	0.54048	-	-
		39.00000	-9.00000	18.41538	0.0	1.1523	0.42126	-	-
		40.00000	-9.00000	18.41538	0.0	0.95779	0.31623	-	-
		41.00000	-9.00000	18.41538	0.0	0.78313	0.22823	-	-
		42.00000	-9.00000	18.41538	0.0	0.62881	0.15808	-	-
		43.00000	-9.00000	18.41538	0.0	0.49426	0.10504	-	-
		44.00000	-9.00000	18.41538	0.0	0.39769	0.070644	-	-
		45.00000	-9.00000	18.41538	0.0	0.31000	0.046480	-	-
		46.00000	-9.00000	18.41538	0.0	0.23044	0.030634	-	-
		47.00000	-9.00000	18.41538	0.0	0.15820	0.020657	-	-
		48.00000	-9.00000	18.41538	0.0	0.092524	0.013667	-	-
		49.00000	-9.00000	18.41538	0.0	0.032715	0.0064293	-	-
		50.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		51.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		52.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		53.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		54.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		55.00000	-9.00000	18.41538	0.0	0.0	0.0	-	-
		-25.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		-24.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		-23.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		-22.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		-21.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		-20.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		-19.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		-18.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		-17.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		-16.00000	-8.00000	18.40769	0.017640	0.0061684	0.0069924	-	-
		-15.00000	-8.00000	18.40769	0.15300	0.058484	0.034421	-	-
		-14.00000	-8.00000	18.40769	0.27596	0.11622	0.052729	-	-
		-13.00000	-8.00000	18.40769	0.38470	0.18014	0.073621	-	-
		-12.00000	-8.00000	18.40769	0.47704	0.25123	0.115632	-	-
		-11.00000	-8.00000	18.40769	0.55049	0.33014	0.26769	-	-
		-10.00000	-8.00000	18.40769	0.60217	0.41831	0.38225	-	-
		-9.00000	-8.00000	18.40769	0.62881	0.51681	0.49615	-	-
		-8.00000	-8.00000	18.40769	0.62684	0.62684	0.60293	-	-
		-7.00000	-8.00000	18.40769	0.68243	0.78931	0.73730	-	-
		-6.00000	-8.00000	18.40769	0.70449	0.97764	0.87032	-	-
		-5.00000	-8.00000	18.40769	0.68477	1.1927	0.99576	-	-
		-4.00000	-8.00000	18.40769	0.62137	1.4333	1.1069	-	-
		-3.00000	-8.00000	18.40769	0.51467	1.6955	1.1973	-	-
		-2.00000	-8.00000	18.40769	0.36880	1.9715	1.2611	-	-
		-1.00000	-8.00000	18.40769	0.19270	2.2490	1.2942	-	-
		0.00000	-8.00000	18.40769	0.0	2.5125	1.2939	-	-
		1.00000	-8.00000	18.40769	0.0	3.7500	1.9312	-	-
		2.00000	-8.00000	18.40769	0.0	3.7500	1.9312	-	-
		3.00000	-8.00000	18.40769	0.0	3.7500	1.9312	-	-
		4.00000	-8.00000	18.40769	0.0	3.7562	1.9330	-	-
		5.00000	-8.00000	18.40769	0.0	3.8085	1.9407	-	-
		6.00000	-8.00000	18.40769	0.0	3.8662	1.9468	-	-
		7.00000	-8.00000	18.40769	0.0	3.9301	1.9547	-	-
		8.00000	-8.00000	18.40769	0.0	4.0011	1.9674	-	-
		9.00000	-8.00000	18.40769	0.0	4.0801	1.9878	-	-
		10.00000	-8.00000	18.40769	0.0	4.1683	2.0184	-	-
		11.00000	-8.00000	18.40769	0.0	4.2668	2.0611	-	-
		12.00000	-8.00000	18.40769	0.0	4.3768	2.1175	-	-
		13.00000	-8.00000	18.40769	0.0	4.5393	2.2018	-	-
		14.00000	-8.00000	18.40769	0.0	4.7276	2.3084	-	-
		15.00000	-8.00000	18.40769	0.0	4.9427	2.4372	-	-
		16.00000	-8.00000	18.40769	0.0	5.1833	2.5858	-	-
		17.00000	-8.00000	18.40769	0.0	5.4455	2.7489	-	-
		18.00000	-8.00000	18.40769	0.0	5.7215	2.9179	-	-
		19.00000	-8.00000	18.40769	0.0	5.9990	3.0813	-	-
		20.00000	-8.00000	18.40769	0.0	5.0250	2.5878	-	-
		21.00000	-8.00000	18.40769	0.0	5.9990	3.0813	-	-
		22.00000	-8.00000	18.40769	0.0	5.7215	2.9179	-	-
		23.00000	-8.00000	18.40769	0.0	5.4455	2.7489	-	-
		24.00000	-8.00000	18.40769	0.0	5.1833	2.5858	-	-
		25.00000	-8.00000	18.40769	0.0	4.9427	2.4372	-	-
		26.00000	-8.00000	18.40769	0.0	4.7276	2.3084	-	-
		27.00000	-8.00000	18.40769	0.0	4.5393	2.2018	-	-
		28.00000	-8.00000	18.40769	0.0	4.3768	2.1175	-	-
		29.00000	-8.00000	18.40769	0.0	4.2668	2.0611	-	-
		30.00000	-8.00000	18.40769	0.0	4.1683	2.0184	-	-
		31.00000	-8.00000	18.40769	0.0	4.0801	1.9878	-	-
		32.00000	-8.00000	18.40769	0.0	4.0011	1.9674	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		33.00000	-8.00000	18.40769	0.0	3.9301	1.9547	-	-
		34.00000	-8.00000	18.40769	0.0	2.6287	1.3095	-	-
		35.00000	-8.00000	18.40769	0.0	2.3075	1.1596	-	-
		36.00000	-8.00000	18.40769	0.0	1.9776	0.98852	-	-
		37.00000	-8.00000	18.40769	0.0	1.6955	0.81766	-	-
		38.00000	-8.00000	18.40769	0.0	1.4333	0.65459	-	-
		39.00000	-8.00000	18.40769	0.0	1.1927	0.50601	-	-
		40.00000	-8.00000	18.40769	0.0	0.97764	0.37719	-	-
		41.00000	-8.00000	18.40769	0.0	0.78931	0.27057	-	-
		42.00000	-8.00000	18.40769	0.0	0.62684	0.18627	-	-
		43.00000	-8.00000	18.40769	0.0	0.51681	0.12993	-	-
		44.00000	-8.00000	18.40769	0.0	0.41831	0.087184	-	-
		45.00000	-8.00000	18.40769	0.0	0.33014	0.056610	-	-
		46.00000	-8.00000	18.40769	0.0	0.25112	0.036198	-	-
		47.00000	-8.00000	18.40769	0.0	0.18014	0.023479	-	-
		48.00000	-8.00000	18.40769	0.0	0.11622	0.015626	-	-
		49.00000	-8.00000	18.40769	0.0	0.058484	0.0095190	-	-
		50.00000	-8.00000	18.40769	0.0	0.0061684	0.0018116	-	-
		51.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		52.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		53.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		54.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		55.00000	-8.00000	18.40769	0.0	0.0	0.0	-	-
		-25.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		-24.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		-23.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		-22.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		-21.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		-20.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		-19.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		-18.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		-17.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		-16.00000	-7.00000	18.40000	0.090299	0.026374	0.022616	-	-
		-15.00000	-7.00000	18.40000	0.23687	0.075418	0.045197	-	-
		-14.00000	-7.00000	18.40000	0.37155	0.12992	0.065034	-	-
		-13.00000	-7.00000	18.40000	0.49239	0.19075	0.11719	-	-
		-12.00000	-7.00000	18.40000	0.59704	0.25892	0.24462	-	-
		-11.00000	-7.00000	18.40000	0.68272	0.33564	0.38027	-	-
		-10.00000	-7.00000	18.40000	0.74607	0.42234	0.52213	-	-
		-9.00000	-7.00000	18.40000	0.78313	0.52064	0.66468	-	-
		-8.00000	-7.00000	18.40000	0.85180	0.63236	0.79934	-	-
		-7.00000	-7.00000	18.40000	0.87807	0.75942	0.91521	-	-
		-6.00000	-7.00000	18.40000	0.90406	0.95835	1.0721	-	-
		-5.00000	-7.00000	18.40000	0.88121	1.1923	1.2194	-	-
		-4.00000	-7.00000	18.40000	0.80445	1.4623	1.3493	-	-
		-3.00000	-7.00000	18.40000	0.67128	1.7659	1.4543	-	-
		-2.00000	-7.00000	18.40000	0.48443	2.0951	1.5281	-	-
		-1.00000	-7.00000	18.40000	0.25440	2.4349	1.5663	-	-
		0.00000	-7.00000	18.40000	0.0	2.7637	1.5668	-	-
		1.00000	-7.00000	18.40000	0.0	4.1250	2.3385	-	-
		2.00000	-7.00000	18.40000	0.0	4.1250	2.3385	-	-
		3.00000	-7.00000	18.40000	0.0	4.1250	2.3385	-	-
		4.00000	-7.00000	18.40000	0.0	4.1514	2.3436	-	-
		5.00000	-7.00000	18.40000	0.0	4.2004	2.3494	-	-
		6.00000	-7.00000	18.40000	0.0	4.2549	2.3553	-	-
		7.00000	-7.00000	18.40000	0.0	4.3157	2.3646	-	-
		8.00000	-7.00000	18.40000	0.0	4.3839	2.3800	-	-
		9.00000	-7.00000	18.40000	0.0	4.4606	2.4045	-	-
		10.00000	-7.00000	18.40000	0.0	4.5473	2.4405	-	-
		11.00000	-7.00000	18.40000	0.0	4.6456	2.4902	-	-
		12.00000	-7.00000	18.40000	0.0	4.7574	2.5553	-	-
		13.00000	-7.00000	18.40000	0.0	4.8844	2.6367	-	-
		14.00000	-7.00000	18.40000	0.0	5.0833	2.7588	-	-
		15.00000	-7.00000	18.40000	0.0	5.3173	2.9091	-	-
		16.00000	-7.00000	18.40000	0.0	5.5873	3.0863	-	-
		17.00000	-7.00000	18.40000	0.0	5.8909	3.2857	-	-
		18.00000	-7.00000	18.40000	0.0	6.2201	3.4984	-	-
		19.00000	-7.00000	18.40000	0.0	6.5599	3.7109	-	-
		20.00000	-7.00000	18.40000	0.0	5.5275	3.1336	-	-
		21.00000	-7.00000	18.40000	0.0	6.5599	3.7109	-	-
		22.00000	-7.00000	18.40000	0.0	6.2221	3.4994	-	-
		23.00000	-7.00000	18.40000	0.0	5.8909	3.2857	-	-
		24.00000	-7.00000	18.40000	0.0	5.5873	3.0863	-	-
		25.00000	-7.00000	18.40000	0.0	5.3173	2.9091	-	-
		26.00000	-7.00000	18.40000	0.0	5.0833	2.7588	-	-
		27.00000	-7.00000	18.40000	0.0	4.8844	2.6367	-	-
		28.00000	-7.00000	18.40000	0.0	4.7574	2.5553	-	-
		29.00000	-7.00000	18.40000	0.0	4.6456	2.4902	-	-
		30.00000	-7.00000	18.40000	0.0	4.5473	2.4405	-	-
		31.00000	-7.00000	18.40000	0.0	4.4606	2.4045	-	-
		32.00000	-7.00000	18.40000	0.0	4.3839	2.3800	-	-
		33.00000	-7.00000	18.40000	0.0	4.3157	2.3646	-	-
		34.00000	-7.00000	18.40000	0.0	2.8937	1.5836	-	-
		35.00000	-7.00000	18.40000	0.0	2.5103	1.3833	-	-
		36.00000	-7.00000	18.40000	0.0	2.1215	1.1651	-	-
		37.00000	-7.00000	18.40000	0.0	1.7659	0.94718	-	-
		38.00000	-7.00000	18.40000	0.0	1.4623	0.74778	-	-
		39.00000	-7.00000	18.40000	0.0	1.1923	0.57062	-	-
		40.00000	-7.00000	18.40000	0.0	0.95835	0.42034	-	-
		41.00000	-7.00000	18.40000	0.0	0.75942	0.29822	-	-
		42.00000	-7.00000	18.40000	0.0	0.63236	0.21677	-	-
		43.00000	-7.00000	18.40000	0.0	0.52064	0.15173	-	-
		44.00000	-7.00000	18.40000	0.0	0.42234	0.10205	-	-
		45.00000	-7.00000	18.40000	0.0	0.33564	0.066025	-	-
		46.00000	-7.00000	18.40000	0.0	0.25892	0.041529	-	-
		47.00000	-7.00000	18.40000	0.0	0.19075	0.026060	-	-
		48.00000	-7.00000	18.40000	0.0	0.12992	0.016849	-	-
		49.00000	-7.00000	18.40000	0.0	0.075418	0.010915	-	-
		50.00000	-7.00000	18.40000	0.0	0.026374	0.0051123	-	-
		51.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		52.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		53.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		54.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		55.00000	-7.00000	18.40000	0.0	0.0	0.0	-	-
		-25.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-
		-24.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-
		-23.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-
		-22.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-
		-21.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-
		-20.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-
		-19.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-
		-18.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-
		-17.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-
		-16.00000	-6.00000	18.39231	0.16352	0.039056	0.033915	-	-
		-15.00000	-6.00000	18.39231	0.32269	0.083777	0.054869	-	-
		-14.00000	-6.00000	18.39231	0.47078	0.13380	0.078941	-	-
		-13.00000	-6.00000	18.39231	0.60585	0.19006	0.19177	-	-
		-12.00000	-6.00000	18.39231	0.72546	0.25367	0.34259	-	-
		-11.00000	-6.00000	18.39231	0.82660	0.32604	0.50613	-	-
		-10.00000	-6.00000	18.39231	0.90557	0.40886	0.67916	-	-
		-9.00000	-6.00000	18.39231	1.0124	0.50416	0.85456	-	-
		-8.00000	-6.00000	18.39231	1.1208	0.61450	1.0216	-	-
		-7.00000	-6.00000	18.39231	1.1666	0.74270	1.1667	-	-
		-6.00000	-6.00000	18.39231	1.1376	0.89200	1.2740	-	-
		-5.00000	-6.00000	18.39231	1.1189	1.1405	1.4414	-	-
		-4.00000	-6.00000	18.39231	1.0336	1.4388	1.5875	-	-
		-3.00000	-6.00000	18.39231	0.87383	1.7931	1.7050	-	-
		-2.00000	-6.00000	18.39231	0.63826	2.2507	1.7946	-	-
		-1.00000	-6.00000	18.39231	0.33809	2.7289	1.8424	-	-
		0.00000	-6.00000	18.39231	0.0	3.1825	1.8468	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
	1.00000	-6.00000	18.39231	0.0	4.7500	2.7564	-	-	-
	2.00000	-6.00000	18.39231	0.0	4.7500	2.7564	-	-	-
	3.00000	-6.00000	18.39231	0.0	4.7500	2.7564	-	-	-
	4.00000	-6.00000	18.39231	0.0	4.7891	2.7629	-	-	-
	5.00000	-6.00000	18.39231	0.0	4.8338	2.7677	-	-	-
	6.00000	-6.00000	18.39231	0.0	4.8838	2.7738	-	-	-
	7.00000	-6.00000	18.39231	0.0	4.9401	2.7843	-	-	-
	8.00000	-6.00000	18.39231	0.0	5.0037	2.8018	-	-	-
	9.00000	-6.00000	18.39231	0.0	5.0760	2.8292	-	-	-
	10.00000	-6.00000	18.39231	0.0	5.1589	2.8687	-	-	-
	11.00000	-6.00000	18.39231	0.0	5.2542	2.9228	-	-	-
	12.00000	-6.00000	18.39231	0.0	5.3645	2.9935	-	-	-
	13.00000	-6.00000	18.39231	0.0	5.4927	3.0821	-	-	-
	14.00000	-6.00000	18.39231	0.0	5.6420	3.1898	-	-	-
	15.00000	-6.00000	18.39231	0.0	5.8905	3.3560	-	-	-
	16.00000	-6.00000	18.39231	0.0	6.1885	3.5577	-	-	-
	17.00000	-6.00000	18.39231	0.0	6.5431	3.7933	-	-	-
	18.00000	-6.00000	18.39231	0.0	7.0007	4.0626	-	-	-
	19.00000	-6.00000	18.39231	0.0	7.4789	4.3403	-	-	-
	20.00000	-6.00000	18.39231	0.0	6.3650	3.6935	-	-	-
	21.00000	-6.00000	18.39231	0.0	7.4789	4.3403	-	-	-
	22.00000	-6.00000	18.39231	0.0	7.0007	4.0626	-	-	-
	23.00000	-6.00000	18.39231	0.0	6.5431	3.7933	-	-	-
	24.00000	-6.00000	18.39231	0.0	6.1885	3.5577	-	-	-
	25.00000	-6.00000	18.39231	0.0	5.8905	3.3560	-	-	-
	26.00000	-6.00000	18.39231	0.0	5.6420	3.1898	-	-	-
	27.00000	-6.00000	18.39231	0.0	5.4927	3.0821	-	-	-
	28.00000	-6.00000	18.39231	0.0	5.3645	2.9935	-	-	-
	29.00000	-6.00000	18.39231	0.0	5.2542	2.9228	-	-	-
	30.00000	-6.00000	18.39231	0.0	5.1589	2.8687	-	-	-
	31.00000	-6.00000	18.39231	0.0	5.0760	2.8292	-	-	-
	32.00000	-6.00000	18.39231	0.0	5.0037	2.8018	-	-	-
	33.00000	-6.00000	18.39231	0.0	4.9401	2.7843	-	-	-
	34.00000	-6.00000	18.39231	0.0	3.3163	1.8642	-	-	-
	35.00000	-6.00000	18.39231	0.0	2.8127	1.5952	-	-	-
	36.00000	-6.00000	18.39231	0.0	2.2898	1.3127	-	-	-
	37.00000	-6.00000	18.39231	0.0	1.7931	1.0369	-	-	-
	38.00000	-6.00000	18.39231	0.0	1.4385	0.80128	-	-	-
	39.00000	-6.00000	18.39231	0.0	1.1405	0.59964	-	-	-
	40.00000	-6.00000	18.39231	0.0	0.89200	0.43343	-	-	-
	41.00000	-6.00000	18.39231	0.0	0.74270	0.32576	-	-	-
	42.00000	-6.00000	18.39231	0.0	0.61450	0.23709	-	-	-
	43.00000	-6.00000	18.39231	0.0	0.50418	0.16647	-	-	-
	44.00000	-6.00000	18.39231	0.0	0.40886	0.11235	-	-	-
	45.00000	-6.00000	18.39231	0.0	0.32604	0.072779	-	-	-
	46.00000	-6.00000	18.39231	0.0	0.25367	0.045469	-	-	-
	47.00000	-6.00000	18.39231	0.0	0.19006	0.027923	-	-	-
	48.00000	-6.00000	18.39231	0.0	0.13380	0.017470	-	-	-
	49.00000	-6.00000	18.39231	0.0	0.083777	0.011309	-	-	-
	50.00000	-6.00000	18.39231	0.0	0.039056	0.0065385	-	-	-
	51.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-	-
	52.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-	-
	53.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-	-
	54.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-	-
	55.00000	-6.00000	18.39231	0.0	0.0	0.0	-	-	-
	-25.00000	-5.00000	18.38462	0.0	0.0	0.0	-	-	-
	-24.00000	-5.00000	18.38462	0.0	0.0	0.0	-	-	-
	-23.00000	-5.00000	18.38462	0.0	0.0	0.0	-	-	-
	-22.00000	-5.00000	18.38462	0.0	0.0	0.0	-	-	-
	-21.00000	-5.00000	18.38462	0.0	0.0	0.0	-	-	-
	-20.00000	-5.00000	18.38462	0.0	0.0	0.0	-	-	-
	-19.00000	-5.00000	18.38462	0.0	0.0	0.0	-	-	-
	-18.00000	-5.00000	18.38462	0.0	0.0	0.0	-	-	-
	-17.00000	-5.00000	18.38462	0.054279	0.0095590	0.014473	-	-	-
	-16.00000	-5.00000	18.38462	0.23565	0.044721	0.042659	-	-	-
	-15.00000	-5.00000	18.38462	0.40867	0.084056	0.064339	-	-	-
	-14.00000	-5.00000	18.38462	0.57182	0.12832	0.11073	-	-	-
	-13.00000	-5.00000	18.38462	0.72319	0.17845	0.27037	-	-	-
	-12.00000	-5.00000	18.38462	0.86040	0.23562	0.44711	-	-	-
	-11.00000	-5.00000	18.38462	0.98042	0.30132	0.64127	-	-	-
	-10.00000	-5.00000	18.38462	1.0902	0.37743	0.84867	-	-	-
	-9.00000	-5.00000	18.38462	1.2862	0.46635	1.0608	-	-	-
	-8.00000	-5.00000	18.38462	1.4299	0.57116	1.2650	-	-	-
	-7.00000	-5.00000	18.38462	1.5100	0.69577	1.4447	-	-	-
	-6.00000	-5.00000	18.38462	1.5102	0.84502	1.5804	-	-	-
	-5.00000	-5.00000	18.38462	1.4081	1.0246	1.6506	-	-	-
	-4.00000	-5.00000	18.38462	1.3247	1.3803	1.8146	-	-	-
	-3.00000	-5.00000	18.38462	1.1426	1.8554	1.9480	-	-	-
	-2.00000	-5.00000	18.38462	0.85071	2.4191	2.0432	-	-	-
	-1.00000	-5.00000	18.38462	0.45708	3.0413	2.0972	-	-	-
	0.00000	-5.00000	18.38462	0.0	3.6571	2.1056	-	-	-
	1.00000	-5.00000	18.38462	0.0	5.4583	3.1426	-	-	-
	2.00000	-5.00000	18.38462	0.0	5.4583	3.1426	-	-	-
	3.00000	-5.00000	18.38462	0.0	5.4679	3.1448	-	-	-
	4.00000	-5.00000	18.38462	0.0	5.5031	3.1494	-	-	-
	5.00000	-5.00000	18.38462	0.0	5.5424	3.1536	-	-	-
	6.00000	-5.00000	18.38462	0.0	5.5867	3.1599	-	-	-
	7.00000	-5.00000	18.38462	0.0	5.6368	3.1710	-	-	-
	8.00000	-5.00000	18.38462	0.0	5.6940	3.1894	-	-	-
	9.00000	-5.00000	18.38462	0.0	5.7597	3.2176	-	-	-
	10.00000	-5.00000	18.38462	0.0	5.8358	3.2581	-	-	-
	11.00000	-5.00000	18.38462	0.0	5.9247	3.3131	-	-	-
	12.00000	-5.00000	18.38462	0.0	6.0295	3.3850	-	-	-
	13.00000	-5.00000	18.38462	0.0	6.1541	3.4756	-	-	-
	14.00000	-5.00000	18.38462	0.0	6.3034	3.5869	-	-	-
	15.00000	-5.00000	18.38462	0.0	6.4829	3.7201	-	-	-
	16.00000	-5.00000	18.38462	0.0	6.8386	3.9434	-	-	-
	17.00000	-5.00000	18.38462	0.0	7.3137	4.2185	-	-	-
	18.00000	-5.00000	18.38462	0.0	7.8775	4.5407	-	-	-
	19.00000	-5.00000	18.38462	0.0	8.4996	4.8954	-	-	-
	20.00000	-5.00000	18.38462	0.0	7.3142	4.2111	-	-	-
	21.00000	-5.00000	18.38462	0.0	8.4996	4.8954	-	-	-
	22.00000	-5.00000	18.38462	0.0	7.8775	4.5407	-	-	-
	23.00000	-5.00000	18.38462	0.0	7.3137	4.2185	-	-	-
	24.00000	-5.00000	18.38462	0.0	6.8386	3.9434	-	-	-
	25.00000	-5.00000	18.38462	0.0	6.4829	3.7201	-	-	-
	26.00000	-5.00000	18.38462	0.0	6.3034	3.5869	-	-	-
	27.00000	-5.00000	18.38462	0.0	6.1541	3.4756	-	-	-
	28.00000	-5.00000							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
50.00000	-5.00000	18.38462	0.0	0.0	0.044721	0.0068043	-	-	-
51.00000	-5.00000	18.38462	0.0	0.0	0.0095590	0.0021672	-	-	-
52.00000	-5.00000	18.38462	0.0	0.0	0.0	0.0	-	-	-
53.00000	-5.00000	18.38462	0.0	0.0	0.0	0.0	-	-	-
54.00000	-5.00000	18.38462	0.0	0.0	0.0	0.0	-	-	-
55.00000	-5.00000	18.38462	0.0	0.0	0.0	0.0	-	-	-
-25.00000	-4.00000	18.37692	0.0	0.0	0.0	0.0	-	-	-
-24.00000	-4.00000	18.37692	0.0	0.0	0.0	0.0	-	-	-
-23.00000	-4.00000	18.37692	0.0	0.0	0.0	0.0	-	-	-
-22.00000	-4.00000	18.37692	0.0	0.0	0.0	0.0	-	-	-
-21.00000	-4.00000	18.37692	0.0	0.0	0.0	0.0	-	-	-
-20.00000	-4.00000	18.37692	0.0	0.0	0.0	0.0	-	-	-
-19.00000	-4.00000	18.37692	0.0	0.0	0.0	0.0	-	-	-
-18.00000	-4.00000	18.37692	0.0	0.0	0.0	0.0	-	-	-
-17.00000	-4.00000	18.37692	0.10978	0.014778	0.024144	-	-	-	-
-16.00000	-4.00000	18.37692	0.30472	0.044085	0.049843	-	-	-	-
-15.00000	-4.00000	18.37692	0.49266	0.077016	0.073755	-	-	-	-
-14.00000	-4.00000	18.37692	0.67227	0.11427	0.16806	-	-	-	-
-13.00000	-4.00000	18.37692	0.84184	0.15672	0.34967	-	-	-	-
-12.00000	-4.00000	18.37692	0.99916	0.20551	0.55373	-	-	-	-
-11.00000	-4.00000	18.37692	1.1414	0.26208	0.78021	-	-	-	-
-10.00000	-4.00000	18.37692	1.3440	0.32837	1.0243	-	-	-	-
-9.00000	-4.00000	18.37692	1.5841	0.40692	1.2765	-	-	-	-
-8.00000	-4.00000	18.37692	1.7770	0.50118	1.5225	-	-	-	-
-7.00000	-4.00000	18.37692	1.9101	0.61583	1.7433	-	-	-	-
-6.00000	-4.00000	18.37692	1.9636	0.75725	1.9154	-	-	-	-
-5.00000	-4.00000	18.37692	1.9069	0.95886	2.0157	-	-	-	-
-4.00000	-4.00000	18.37692	1.6975	1.2483	2.0160	-	-	-	-
-3.00000	-4.00000	18.37692	1.5081	1.7788	2.1575	-	-	-	-
-2.00000	-4.00000	18.37692	1.1573	2.4616	2.2634	-	-	-	-
-1.00000	-4.00000	18.37692	0.63695	3.2768	2.3310	-	-	-	-
0.00000	-4.00000	18.37692	0.0	4.1317	2.3518	-	-	-	-
1.00000	-4.00000	18.37692	0.0	6.1667	3.5101	-	-	-	-
2.00000	-4.00000	18.37692	0.0	6.1667	3.5101	-	-	-	-
3.00000	-4.00000	18.37692	0.0	6.1814	3.5130	-	-	-	-
4.00000	-4.00000	18.37692	0.0	6.2108	3.5164	-	-	-	-
5.00000	-4.00000	18.37692	0.0	6.2437	3.5201	-	-	-	-
6.00000	-4.00000	18.37692	0.0	6.2809	3.5262	-	-	-	-
7.00000	-4.00000	18.37692	0.0	6.3234	3.5370	-	-	-	-
8.00000	-4.00000	18.37692	0.0	6.3722	3.5547	-	-	-	-
9.00000	-4.00000	18.37692	0.0	6.4287	3.5814	-	-	-	-
10.00000	-4.00000	18.37692	0.0	6.4950	3.6196	-	-	-	-
11.00000	-4.00000	18.37692	0.0	6.5736	3.6713	-	-	-	-
12.00000	-4.00000	18.37692	0.0	6.6678	3.7390	-	-	-	-
13.00000	-4.00000	18.37692	0.0	6.7825	3.8251	-	-	-	-
14.00000	-4.00000	18.37692	0.0	6.9239	3.9319	-	-	-	-
15.00000	-4.00000	18.37692	0.0	7.1255	4.0664	-	-	-	-
16.00000	-4.00000	18.37692	0.0	7.4149	4.2331	-	-	-	-
17.00000	-4.00000	18.37692	0.0	7.9454	4.5343	-	-	-	-
18.00000	-4.00000	18.37692	0.0	8.6282	4.9192	-	-	-	-
19.00000	-4.00000	18.37692	0.0	9.4435	5.3782	-	-	-	-
20.00000	-4.00000	18.37692	0.0	8.2633	4.7036	-	-	-	-
21.00000	-4.00000	18.37692	0.0	9.4435	5.3782	-	-	-	-
22.00000	-4.00000	18.37692	0.0	8.6282	4.9192	-	-	-	-
23.00000	-4.00000	18.37692	0.0	7.9454	4.5343	-	-	-	-
24.00000	-4.00000	18.37692	0.0	7.4149	4.2331	-	-	-	-
25.00000	-4.00000	18.37692	0.0	7.1255	4.0664	-	-	-	-
26.00000	-4.00000	18.37692	0.0	6.9239	3.9319	-	-	-	-
27.00000	-4.00000	18.37692	0.0	6.7825	3.8251	-	-	-	-
28.00000	-4.00000	18.37692	0.0	6.6678	3.7390	-	-	-	-
29.00000	-4.00000	18.37692	0.0	6.5736	3.6713	-	-	-	-
30.00000	-4.00000	18.37692	0.0	6.4950	3.6196	-	-	-	-
31.00000	-4.00000	18.37692	0.0	6.4287	3.5814	-	-	-	-
32.00000	-4.00000	18.37692	0.0	6.3722	3.5547	-	-	-	-
33.00000	-4.00000	18.37692	0.0	6.3234	3.5370	-	-	-	-
34.00000	-4.00000	18.37692	0.0	6.2459	3.3679	-	-	-	-
35.00000	-4.00000	18.37692	0.0	3.3538	1.8781	-	-	-	-
36.00000	-4.00000	18.37692	0.0	2.5056	1.4154	-	-	-	-
37.00000	-4.00000	18.37692	0.0	1.7935	1.0270	-	-	-	-
38.00000	-4.00000	18.37692	0.0	1.2483	0.72301	-	-	-	-
39.00000	-4.00000	18.37692	0.0	0.95886	0.55627	-	-	-	-
40.00000	-4.00000	18.37692	0.0	0.75725	0.42180	-	-	-	-
41.00000	-4.00000	18.37692	0.0	0.61583	0.31492	-	-	-	-
42.00000	-4.00000	18.37692	0.0	0.50118	0.22889	-	-	-	-
43.00000	-4.00000	18.37692	0.0	0.40692	0.16120	-	-	-	-
44.00000	-4.00000	18.37692	0.0	0.32837	0.10944	-	-	-	-
45.00000	-4.00000	18.37692	0.0	0.26208	0.071314	-	-	-	-
46.00000	-4.00000	18.37692	0.0	0.20551	0.044339	-	-	-	-
47.00000	-4.00000	18.37692	0.0	0.15672	0.026874	-	-	-	-
48.00000	-4.00000	18.37692	0.0	0.11427	0.016091	-	-	-	-
49.00000	-4.00000	18.37692	0.0	0.077016	0.0099711	-	-	-	-
50.00000	-4.00000	18.37692	0.0	0.044085	0.0062996	-	-	-	-
51.00000	-4.00000	18.37692	0.0	0.014778	0.0028646	-	-	-	-
52.00000	-4.00000	18.37692	0.0	0.0	0.0	-	-	-	-
53.00000	-4.00000	18.37692	0.0	0.0	0.0	-	-	-	-
54.00000	-4.00000	18.37692	0.0	0.0	0.0	-	-	-	-
55.00000	-4.00000	18.37692	0.0	0.0	0.0	-	-	-	-
-25.00000	-3.00000	18.36923	0.0	0.0	0.0	-	-	-	-
-24.00000	-3.00000	18.36923	0.0	0.0	0.0	-	-	-	-
-23.00000	-3.00000	18.36923	0.0	0.0	0.0	-	-	-	-
-22.00000	-3.00000	18.36923	0.0	0.0	0.0	-	-	-	-
-21.00000	-3.00000	18.36923	0.0	0.0	0.0	-	-	-	-
-20.00000	-3.00000	18.36923	0.0	0.0	0.0	-	-	-	-
-19.00000	-3.00000	18.36923	0.0	0.0	0.0	-	-	-	-
-18.00000	-3.00000	18.36923	0.0	0.0	0.0	-	-	-	-
-17.00000	-3.00000	18.36923	0.15943	0.015373	0.031130	-	-	-	-
-16.00000	-3.00000	18.36923	0.36847	0.038080	0.055881	-	-	-	-
-15.00000	-3.00000	18.36923	0.57212	0.063688	0.082741	-	-	-	-
-14.00000	-3.00000	18.36923	0.76927	0.092781	0.122167	-	-	-	-
-13.00000	-3.00000	18.36923	0.95854	0.12611	0.162547	-	-	-	-
-12.00000	-3.00000	18.36923	1.1381	0.16465	0.205701	-	-	-	-
-11.00000	-3.00000	18.36923	1.3055	0.20970	0.251621	-	-	-	-
-10.00000	-3.00000	18.36923	1.6042	0.26300	0.31981	-	-	-	-
-9.00000	-3.00000	18.36923	1.8985	0.32696	0.40266	-	-	-	-
-8.00000	-3.00000	18.36923	2.1549	0.40495	0.50187	-	-	-	-
-7.00000	-3.00000	18.36923	2.3619	0.50187	0.62699	-	-	-	-
-6.00000	-3.00000	18.36.							



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		18.00000	-3.00000	18.36923	0.0	9.1670	5.1465	-	-
		19.00000	-3.00000	18.36923	0.0	10.241	5.7400	-	-
		20.00000	-3.00000	18.36923	0.0	9.2125	5.1578	-	-
		21.00000	-3.00000	18.36923	0.0	10.241	5.7400	-	-
		22.00000	-3.00000	18.36923	0.0	9.1670	5.1465	-	-
		23.00000	-3.00000	18.36923	0.0	8.3737	4.7047	-	-
		24.00000	-3.00000	18.36923	0.0	7.9930	4.4928	-	-
		25.00000	-3.00000	18.36923	0.0	7.7127	4.3348	-	-
		26.00000	-3.00000	18.36923	0.0	7.5020	4.2117	-	-
		27.00000	-3.00000	18.36923	0.0	7.3769	4.1183	-	-
		28.00000	-3.00000	18.36923	0.0	7.2800	4.0444	-	-
		29.00000	-3.00000	18.36923	0.0	7.2020	3.9866	-	-
		30.00000	-3.00000	18.36923	0.0	7.1380	3.9426	-	-
		31.00000	-3.00000	18.36923	0.0	7.0847	3.9102	-	-
		32.00000	-3.00000	18.36923	0.0	7.0397	3.8873	-	-
		33.00000	-3.00000	18.36923	0.0	7.0011	3.8721	-	-
		34.00000	-3.00000	18.36923	0.0	6.9900	2.5925	-	-
		35.00000	-3.00000	18.36923	0.0	3.4298	1.8993	-	-
		36.00000	-3.00000	18.36923	0.0	2.3300	1.3027	-	-
		37.00000	-3.00000	18.36923	0.0	1.5141	0.85838	-	-
		38.00000	-3.00000	18.36923	0.0	1.1180	0.64371	-	-
		39.00000	-3.00000	18.36923	0.0	0.83770	0.48575	-	-
		40.00000	-3.00000	18.36923	0.0	0.62699	0.36259	-	-
		41.00000	-3.00000	18.36923	0.0	0.50187	0.26919	-	-
		42.00000	-3.00000	18.36923	0.0	0.40495	0.19529	-	-
		43.00000	-3.00000	18.36923	0.0	0.32596	0.13756	-	-
		44.00000	-3.00000	18.36923	0.0	0.26300	0.093553	-	-
		45.00000	-3.00000	18.36923	0.0	0.20970	0.061114	-	-
		46.00000	-3.00000	18.36923	0.0	0.16465	0.038236	-	-
		47.00000	-3.00000	18.36923	0.0	0.12611	0.023019	-	-
		48.00000	-3.00000	18.36923	0.0	0.092781	0.013632	-	-
		49.00000	-3.00000	18.36923	0.0	0.063688	0.0082880	-	-
		50.00000	-3.00000	18.36923	0.0	0.038080	0.0052341	-	-
		51.00000	-3.00000	18.36923	0.0	0.015373	0.0027379	-	-
		52.00000	-3.00000	18.36923	0.0	0.0	0.0	-	-
		53.00000	-3.00000	18.36923	0.0	0.0	0.0	-	-
		54.00000	-3.00000	18.36923	0.0	0.0	0.0	-	-
		55.00000	-3.00000	18.36923	0.0	0.0	0.0	-	-
		-25.00000	-2.00000	18.36154	0.0	0.0	0.0	-	-
		-24.00000	-2.00000	18.36154	0.0	0.0	0.0	-	-
		-23.00000	-2.00000	18.36154	0.0	0.0	0.0	-	-
		-22.00000	-2.00000	18.36154	0.0	0.0	0.0	-	-
		-21.00000	-2.00000	18.36154	0.0	0.0	0.0	-	-
		-20.00000	-2.00000	18.36154	0.0	0.0	0.0	-	-
		-19.00000	-2.00000	18.36154	0.0	0.0	0.0	-	-
		-18.00000	-2.00000	18.36154	0.0	0.0	0.0	-	-
		-17.00000	-2.00000	18.36154	0.20106	0.012340	0.036077	-	-
		-16.00000	-2.00000	18.36154	0.42445	0.027839	0.060809	-	-
		-15.00000	-2.00000	18.36154	0.64418	0.045366	0.090623	-	-
		-14.00000	-2.00000	18.36154	0.85951	0.065343	0.26807	-	-
		-13.00000	-2.00000	18.36154	1.0694	0.088319	0.49305	-	-
		-12.00000	-2.00000	18.36154	1.2727	0.11502	0.75083	-	-
		-11.00000	-2.00000	18.36154	1.4821	0.14641	1.0417	-	-
		-10.00000	-2.00000	18.36154	1.8602	0.18383	1.3608	-	-
		-9.00000	-2.00000	18.36154	2.2167	0.22918	1.6985	-	-
		-8.00000	-2.00000	18.36154	2.5492	0.28522	2.0395	-	-
		-7.00000	-2.00000	18.36154	2.8500	0.35611	2.3630	-	-
		-6.00000	-2.00000	18.36154	3.1032	0.46293	2.6436	-	-
		-5.00000	-2.00000	18.36154	3.2767	0.62806	2.8478	-	-
		-4.00000	-2.00000	18.36154	3.3095	0.86074	2.9359	-	-
		-3.00000	-2.00000	18.36154	3.0824	1.2065	2.8593	-	-
		-2.00000	-2.00000	18.36154	2.3651	1.7491	2.5503	-	-
		-1.00000	-2.00000	18.36154	1.4903	3.1300	2.6494	-	-
		0.00000	-2.00000	18.36154	0.0	5.0808	2.7538	-	-
		1.00000	-2.00000	18.36154	0.0	7.5833	4.1102	-	-
		2.00000	-2.00000	18.36154	0.0	7.5833	4.1102	-	-
		3.00000	-2.00000	18.36154	0.0	7.5957	4.1122	-	-
		4.00000	-2.00000	18.36154	0.0	7.6112	4.1139	-	-
		5.00000	-2.00000	18.36154	0.0	7.6287	4.1161	-	-
		6.00000	-2.00000	18.36154	0.0	7.6487	4.1201	-	-
		7.00000	-2.00000	18.36154	0.0	7.6717	4.1270	-	-
		8.00000	-2.00000	18.36154	0.0	7.6983	4.1382	-	-
		9.00000	-2.00000	18.36154	0.0	7.7297	4.1549	-	-
		10.00000	-2.00000	18.36154	0.0	7.7672	4.1786	-	-
		11.00000	-2.00000	18.36154	0.0	7.8125	4.2107	-	-
		12.00000	-2.00000	18.36154	0.0	7.8686	4.2529	-	-
		13.00000	-2.00000	18.36154	0.0	7.9394	4.3073	-	-
		14.00000	-2.00000	18.36154	0.0	8.0463	4.3788	-	-
		15.00000	-2.00000	18.36154	0.0	8.2114	4.4731	-	-
		16.00000	-2.00000	18.36154	0.0	8.4441	4.6029	-	-
		17.00000	-2.00000	18.36154	0.0	8.7898	4.7931	-	-
		18.00000	-2.00000	18.36154	0.0	9.3325	5.0855	-	-
		19.00000	-2.00000	18.36154	0.0	10.713	5.8235	-	-
		20.00000	-2.00000	18.36154	0.0	10.162	5.5076	-	-
		21.00000	-2.00000	18.36154	0.0	10.713	5.8235	-	-
		22.00000	-2.00000	18.36154	0.0	9.3325	5.0855	-	-
		23.00000	-2.00000	18.36154	0.0	8.7898	4.7931	-	-
		24.00000	-2.00000	18.36154	0.0	8.4441	4.6029	-	-
		25.00000	-2.00000	18.36154	0.0	8.2114	4.4731	-	-
		26.00000	-2.00000	18.36154	0.0	8.0463	4.3788	-	-
		27.00000	-2.00000	18.36154	0.0	7.9394	4.3073	-	-
		28.00000	-2.00000	18.36154	0.0	7.8686	4.2529	-	-
		29.00000	-2.00000	18.36154	0.0	7.8125	4.2107	-	-
		30.00000	-2.00000	18.36154	0.0	7.7672	4.1786	-	-
		31.00000	-2.00000	18.36154	0.0	7.7297	4.1549	-	-
		32.00000	-2.00000	18.36154	0.0	7.6983	4.1382	-	-
		33.00000	-2.00000	18.36154	0.0	7.6717	4.1270	-	-
		34.00000	-2.00000	18.36154	0.0	5.1462	2.7637	-	-
		35.00000	-2.00000	18.36154	0.0	3.1754	1.7194	-	-
		36.00000	-2.00000	18.36154	0.0	1.7770	0.97908	-	-
		37.00000	-2.00000	18.36154	0.0	1.2188	0.6508	-	-
		38.00000	-2.00000	18.36154	0.0	0.86074	0.49273	-	-
		39.00000	-2.00000	18.36154	0.0	0.62806	0.36297	-	-
		40.00000	-2.00000	18.36154	0.0	0.46293	0.26865	-	-
		41.00000	-2.00000	18.36154	0.0	0.35611	0.19716	-	-
		42.00000	-2.00000	18.36154	0.0	0.28522	0.14275	-	-
		43.00000	-2.00000	18.36154	0.0	0.22918	0.10052	-	-
		44.00000	-2.00000	18.36154	0.0	0.18383	0.068435	-	-
		45.00000	-2.00000	18.36154	0.0	0.14641	0.044787	-	-
		46.00000	-2.00000	18.36154	0.0	0.11502	0.028067	-	-
		47.00000	-2.00000	18.36154	0.0	0.088319	0.016897	-	-
		48.00000	-2.00000	18.36154	0.0	0.065343	0.0099371	-	-
		49.00000	-2.00000	18.36154	0.0	0.045366	0.0059622	-	-
		50.00000	-2.00000	18.36154	0.0	0.027839	0.0037429	-	-
		51.00000	-2.00000	18.36154	0.0	0.012340	0.0020862	-	-
		52.00000	-2.00000	18.36154	0.0	0.0	0.0	-	-
		53.00000	-2.00000	18.36154	0.0	0.0	0.0	-	-
		54.00000	-2.00000	18.36154	0.0	0.0	0.0	-	-
		55.00000	-2.00000	18.36154	0.0	0.0	0.0	-	-
		-25.00000	-1.00000	18.35385	0.0	0.0	0.0	-	-
		-24.00000	-1.00000	18.35385	0.0	0.0	0.0	-	-
		-23.00000	-1.00000	18.35385	0.0	0.0	0.0	-	-
		-22.00000	-1.00000	18.35385	0.0	0.0	0.0	-	-
		-21.00000	-1.00000	18.35385	0.0	0.0	0.0	-	-
		-20.00000	-1.00000	18.35385	0.0	0.0	0.0	-	-
		-19.00000	-1.00000	18.35385	0.0	0.0	0.0	-	-
		-18.00000	-1.00000	18.35385	0.0	0.0	0.0	-	-
		-17.00000	-1.00000	18.35385	0.23243	0.0068074	0.039299	-	-
		-16.00000	-1.00000	18.35385	0.47001	0.014669	0.064458	-	-
		-15.00000	-1.00000	18.35385	0.70578	0.023573	0.096654	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line		
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		-14.00000	-1.00000	18.35385	0.93935	0.033743	0.30363	-	-	-
		-13.00000	-1.00000	18.35385	1.1702	0.045468	0.54757	-	-	-
		-12.00000	-1.00000	18.35385	1.3977	0.059133	0.82890	-	-	-
		-11.00000	-1.00000	18.35385	1.6664	0.075261	1.1485	-	-	-
		-10.00000	-1.00000	18.35385	2.0987	0.094583	1.5024	-	-	-
		-9.00000	-1.00000	18.35385	2.5218	0.11815	1.8817	-	-	-
		-8.00000	-1.00000	18.35385	2.9379	0.14751	2.2723	-	-	-
		-7.00000	-1.00000	18.35385	3.3463	0.18511	2.6544	-	-	-
		-6.00000	-1.00000	18.35385	3.7411	0.24662	3.0042	-	-	-
		-5.00000	-1.00000	18.35385	4.1060	0.33856	3.2890	-	-	-
		-4.00000	-1.00000	18.35385	4.4026	0.47407	3.4703	-	-	-
		-3.00000	-1.00000	18.35385	4.5384	0.69234	3.4955	-	-	-
		-2.00000	-1.00000	18.35385	4.2620	1.0945	3.2759	-	-	-
		-1.00000	-1.00000	18.35385	2.7593	1.9996	2.6077	-	-	-
		0.00000	-1.00000	18.35385	0.0	5.5554	2.8171	-	-	-
		1.00000	-1.00000	18.35385	0.0	8.2917	4.2046	-	-	-
		2.00000	-1.00000	18.35385	0.0	8.2917	4.2046	-	-	-
		3.00000	-1.00000	18.35385	0.0	8.2985	4.2057	-	-	-
		4.00000	-1.00000	18.35385	0.0	8.3063	4.2065	-	-	-
		5.00000	-1.00000	18.35385	0.0	8.3152	4.2077	-	-	-
		6.00000	-1.00000	18.35385	0.0	8.3254	4.2098	-	-	-
		7.00000	-1.00000	18.35385	0.0	8.3371	4.2135	-	-	-
		8.00000	-1.00000	18.35385	0.0	8.3508	4.2194	-	-	-
		9.00000	-1.00000	18.35385	0.0	8.3669	4.2283	-	-	-
		10.00000	-1.00000	18.35385	0.0	8.3862	4.2407	-	-	-
		11.00000	-1.00000	18.35385	0.0	8.4098	4.2577	-	-	-
		12.00000	-1.00000	18.35385	0.0	8.4392	4.2800	-	-	-
		13.00000	-1.00000	18.35385	0.0	8.4768	4.3089	-	-	-
		14.00000	-1.00000	18.35385	0.0	8.5383	4.3477	-	-	-
		15.00000	-1.00000	18.35385	0.0	8.6302	4.3997	-	-	-
		16.00000	-1.00000	18.35385	0.0	8.7657	4.4748	-	-	-
		17.00000	-1.00000	18.35385	0.0	8.9840	4.5935	-	-	-
		18.00000	-1.00000	18.35385	0.0	9.3862	4.8037	-	-	-
		19.00000	-1.00000	18.35385	0.0	10.291	5.2528	-	-	-
		20.00000	-1.00000	18.35385	0.0	11.111	5.6341	-	-	-
		21.00000	-1.00000	18.35385	0.0	10.291	5.2528	-	-	-
		22.00000	-1.00000	18.35385	0.0	9.3862	4.8037	-	-	-
		23.00000	-1.00000	18.35385	0.0	8.9840	4.5935	-	-	-
		24.00000	-1.00000	18.35385	0.0	8.7657	4.4748	-	-	-
		25.00000	-1.00000	18.35385	0.0	8.6302	4.3997	-	-	-
		26.00000	-1.00000	18.35385	0.0	8.5383	4.3477	-	-	-
		27.00000	-1.00000	18.35385	0.0	8.4768	4.3089	-	-	-
		28.00000	-1.00000	18.35385	0.0	8.4392	4.2800	-	-	-
		29.00000	-1.00000	18.35385	0.0	8.4098	4.2577	-	-	-
		30.00000	-1.00000	18.35385	0.0	8.3862	4.2407	-	-	-
		31.00000	-1.00000	18.35385	0.0	8.3669	4.2283	-	-	-
		32.00000	-1.00000	18.35385	0.0	8.3508	4.2194	-	-	-
		33.00000	-1.00000	18.35385	0.0	8.3371	4.2135	-	-	-
		34.00000	-1.00000	18.35385	0.0	5.5892	2.8223	-	-	-
		35.00000	-1.00000	18.35385	0.0	2.0231	1.0514	-	-	-
		36.00000	-1.00000	18.35385	0.0	1.1092	0.60108	-	-	-
		37.00000	-1.00000	18.35385	0.0	0.69915	0.39005	-	-	-
		38.00000	-1.00000	18.35385	0.0	0.47407	0.27026	-	-	-
		39.00000	-1.00000	18.35385	0.0	0.33856	0.19512	-	-	-
		40.00000	-1.00000	18.35385	0.0	0.24662	0.14314	-	-	-
		41.00000	-1.00000	18.35385	0.0	0.18511	0.10434	-	-	-
		42.00000	-1.00000	18.35385	0.0	0.14751	0.075436	-	-	-
		43.00000	-1.00000	18.35385	0.0	0.11815	0.053101	-	-	-
		44.00000	-1.00000	18.35385	0.0	0.094583	0.036169	-	-	-
		45.00000	-1.00000	18.35385	0.0	0.075261	0.023696	-	-	-
		46.00000	-1.00000	18.35385	0.0	0.059133	0.014866	-	-	-
		47.00000	-1.00000	18.35385	0.0	0.045468	0.0089441	-	-	-
		48.00000	-1.00000	18.35385	0.0	0.033743	0.0052465	-	-	-
		49.00000	-1.00000	18.35385	0.0	0.023573	0.0031239	-	-	-
		50.00000	-1.00000	18.35385	0.0	0.014669	0.0019508	-	-	-
		51.00000	-1.00000	18.35385	0.0	0.0068074	0.001182	-	-	-
		52.00000	-1.00000	18.35385	0.0	0.0	0.0	-	-	-
		53.00000	-1.00000	18.35385	0.0	0.0	0.0	-	-	-
		54.00000	-1.00000	18.35385	0.0	0.0	0.0	-	-	-
		55.00000	-1.00000	18.35385	0.0	0.0	0.0	-	-	-
		-25.00000	0.00000	18.34615	0.0	0.0	0.0	-	-	-
		-24.00000	0.00000	18.34615	0.0	0.0	0.0	-	-	-
		-23.00000	0.00000	18.34615	0.0	0.0	0.0	-	-	-
		-22.00000	0.00000	18.34615	0.0	0.0	0.0	-	-	-
		-21.00000	0.00000	18.34615	0.0	0.0	0.0	-	-	-
		-20.00000	0.00000	18.34615	0.0	0.0	0.0	-	-	-
		-19.00000	0.00000	18.34615	0.0	0.0	0.0	-	-	-
		-18.00000	0.00000	18.34615	0.0	0.0	0.0025890	-	-	-
		-17.00000	0.00000	18.34615	0.25125	0.0	0.040894	-	-	-
		-16.00000	0.00000	18.34615	0.50250	0.0	0.066612	-	-	-
		-15.00000	0.00000	18.34615	0.75375	0.0	0.110020	-	-	-
		-14.00000	0.00000	18.34615	1.00500	0.0	0.32495	-	-	-
		-13.00000	0.00000	18.34615	1.2562	0.0	0.58449	-	-	-
		-12.00000	0.00000	18.34615	1.5075	0.0	0.88526	-	-	-
		-11.00000	0.00000	18.34615	1.8184	0.0	1.2291	-	-	-
		-10.00000	0.00000	18.34615	2.3044	0.0	1.6130	-	-	-
		-9.00000	0.00000	18.34615	2.7934	0.0	2.0295	-	-	-
		-8.00000	0.00000	18.34615	3.2932	0.0	2.4664	-	-	-
		-7.00000	0.00000	18.34615	3.8113	0.0	2.9068	-	-	-
		-6.00000	0.00000	18.34615	4.3553	0.0	3.3291	-	-	-
		-5.00000	0.00000	18.34615	4.9328	0.0	3.7071	-	-	-
		-4.00000	0.00000	18.34615	5.5513	0.0	4.0099	-	-	-
		-3.00000	0.00000	18.34615	6.2185	0.0	4.2020	-	-	-
		-2.00000	0.00000	18.34615	6.9419	0.0	4.2431	-	-	-
		-1.00000	0.00000	18.34615	7.7292	0.0	4.0883	-	-	-
		0.00000	0.00000	18.34615	4.2939	3.0150	3.1854	-	-	-
		1.00000	0.00000	18.34615	0.0	9.0000	4.0040	-	-	-
		2.00000	0.00000	18.34615	0.0	9.0000	4.0040	-	-	-
		3.00000	0.00000	18.34615	0.0	9.0000	4.0040	-	-	-
		4.00000	0.00000	18.34615	0.0	9.0000	4.0040	-	-	-
		5.00000	0.00000	18.34615	0.0	9.0000	4.0040	-	-	-
		6.00000	0.00000	18.34615	0.0	9.0000	4.0040	-	-	-
		7.00000	0.00000	18.34615	0.0	9.0000	4.0040	-	-	-
		8.00000	0.00000	18.34615	0.0	9				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
		35.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		36.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		37.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		38.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		39.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		40.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		41.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		42.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		43.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		44.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		45.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		46.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		47.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		48.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		49.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		50.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		51.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		52.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		53.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		54.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		55.00000	0.00000	18.34615	0.0	0.0	0.0	-	-
		-25.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		-24.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		-23.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		-22.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		-21.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		-20.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		-19.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		-18.00000	1.00000	18.33846	0.0	0.0	0.0038642	-	-
		-17.00000	1.00000	18.33846	0.37500	0.0	0.061035	-	-
		-16.00000	1.00000	18.33846	0.75000	0.0	0.099421	-	-
		-15.00000	1.00000	18.33846	1.12500	0.0	0.14956	-	-
		-14.00000	1.00000	18.33846	1.50000	0.0	0.48501	-	-
		-13.00000	1.00000	18.33846	1.87500	0.0	0.87237	-	-
		-12.00000	1.00000	18.33846	2.25000	0.0	1.3213	-	-
		-11.00000	1.00000	18.33846	2.7141	0.0	1.8344	-	-
		-10.00000	1.00000	18.33846	3.4393	0.0	2.4075	-	-
		-9.00000	1.00000	18.33846	4.1693	0.0	3.0291	-	-
		-8.00000	1.00000	18.33846	4.9152	0.0	3.6812	-	-
		-7.00000	1.00000	18.33846	5.6885	0.0	4.3385	-	-
		-6.00000	1.00000	18.33846	6.5004	0.0	4.9688	-	-
		-5.00000	1.00000	18.33846	7.3624	0.0	5.5330	-	-
		-4.00000	1.00000	18.33846	8.2856	0.0	5.9849	-	-
		-3.00000	1.00000	18.33846	9.2814	0.0	6.2716	-	-
		-2.00000	1.00000	18.33846	10.361	0.0	6.3329	-	-
		-1.00000	1.00000	18.33846	11.536	0.0	6.1019	-	-
		0.00000	1.00000	18.33846	12.818	0.0	5.5046	-	-
		1.00000	1.00000	18.33846			Point lies within an excavation.		
		2.00000	1.00000	18.33846			Point lies within an excavation.		
		3.00000	1.00000	18.33846			Point lies within an excavation.		
		4.00000	1.00000	18.33846			Point lies within an excavation.		
		5.00000	1.00000	18.33846			Point lies within an excavation.		
		6.00000	1.00000	18.33846			Point lies within an excavation.		
		7.00000	1.00000	18.33846			Point lies within an excavation.		
		8.00000	1.00000	18.33846			Point lies within an excavation.		
		9.00000	1.00000	18.33846			Point lies within an excavation.		
		10.00000	1.00000	18.33846			Point lies within an excavation.		
		11.00000	1.00000	18.33846			Point lies within an excavation.		
		12.00000	1.00000	18.33846			Point lies within an excavation.		
		13.00000	1.00000	18.33846			Point lies within an excavation.		
		14.00000	1.00000	18.33846			Point lies within an excavation.		
		15.00000	1.00000	18.33846			Point lies within an excavation.		
		16.00000	1.00000	18.33846			Point lies within an excavation.		
		17.00000	1.00000	18.33846			Point lies within an excavation.		
		18.00000	1.00000	18.33846			Point lies within an excavation.		
		19.00000	1.00000	18.33846			Point lies within an excavation.		
		20.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		21.00000	1.00000	18.33846			Point lies within an excavation.		
		22.00000	1.00000	18.33846			Point lies within an excavation.		
		23.00000	1.00000	18.33846			Point lies within an excavation.		
		24.00000	1.00000	18.33846			Point lies within an excavation.		
		25.00000	1.00000	18.33846			Point lies within an excavation.		
		26.00000	1.00000	18.33846			Point lies within an excavation.		
		27.00000	1.00000	18.33846			Point lies within an excavation.		
		28.00000	1.00000	18.33846			Point lies within an excavation.		
		29.00000	1.00000	18.33846			Point lies within an excavation.		
		30.00000	1.00000	18.33846			Point lies within an excavation.		
		31.00000	1.00000	18.33846			Point lies within an excavation.		
		32.00000	1.00000	18.33846			Point lies within an excavation.		
		33.00000	1.00000	18.33846			Point lies within an excavation.		
		34.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		35.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		36.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		37.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		38.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		39.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		40.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		41.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		42.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		43.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		44.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		45.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		46.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		47.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		48.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		49.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		50.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		51.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		52.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		53.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		54.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		55.00000	1.00000	18.33846	0.0	0.0	0.0	-	-
		-25.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		-24.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		-23.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		-22.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		-21.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		-20.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		-19.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		-18.00000	2.00000	18.33077	0.0	0.0	0.0038642	-	-
		-17.00000	2.00000	18.33077	0.37500	0.0	0.061035	-	-
		-16.00000	2.00000	18.33077	0.75000	0.0	0.099421	-	-
		-15.00000	2.00000	18.33077	1.12500	0.0	0.14956	-	-
		-14.00000	2.00000	18.33077	1.50000	0.0	0.48501	-	-
		-13.00000	2.00000	18.33077	1.87500	0.0	0.87237	-	-
		-12.00000	2.00000	18.33077	2.25000	0.0	1.3213	-	-
		-11.00000	2.00000	18.33077	2.7141	0.0	1.8344	-	-
		-10.00000	2.00000	18.33077	3.4393	0.0	2.4075	-	-
		-9.00000	2.00000	18.33077	4.1693	0.0	3.0291	-	-
		-8.00000	2.00000	18.33077	4.9152	0.0	3.6812	-	-
		-7.00000	2.00000	18.33077	5.6885	0.0	4.3385	-	-
		-6.00000	2.00000	18.33077	6.5004	0.0	4.9688	-	-
		-5.00000	2.00000	18.33077	7.3624	0.0	5.5330	-	-
		-4.00000	2.00000	18.33077	8.2856	0.0	5.9849	-	-
		-3.00000	2.00000	18.33077	9.2814	0.0	6.2716	-	-
		-2.00000	2.00000	18.33077	10.361	0.0	6.3329	-	-
		-1.00000	2.00000	18.33077	11.536	0.0	6.1019	-	-
		0.00000	2.00000	18.33077	12.818	0.0	5.5046	-	-
		1.00000	2.00000	18.33077			Point lies within an excavation.		
		2.00000	2.00000	18.33077			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
		3.00000	2.00000	18.33077				Point lies within an excavation.	
		4.00000	2.00000	18.33077				Point lies within an excavation.	
		5.00000	2.00000	18.33077				Point lies within an excavation.	
		6.00000	2.00000	18.33077				Point lies within an excavation.	
		7.00000	2.00000	18.33077				Point lies within an excavation.	
		8.00000	2.00000	18.33077				Point lies within an excavation.	
		9.00000	2.00000	18.33077				Point lies within an excavation.	
		10.00000	2.00000	18.33077				Point lies within an excavation.	
		11.00000	2.00000	18.33077				Point lies within an excavation.	
		12.00000	2.00000	18.33077				Point lies within an excavation.	
		13.00000	2.00000	18.33077				Point lies within an excavation.	
		14.00000	2.00000	18.33077				Point lies within an excavation.	
		15.00000	2.00000	18.33077				Point lies within an excavation.	
		16.00000	2.00000	18.33077				Point lies within an excavation.	
		17.00000	2.00000	18.33077				Point lies within an excavation.	
		18.00000	2.00000	18.33077				Point lies within an excavation.	
		19.00000	2.00000	18.33077				Point lies within an excavation.	
		20.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		21.00000	2.00000	18.33077				Point lies within an excavation.	
		22.00000	2.00000	18.33077				Point lies within an excavation.	
		23.00000	2.00000	18.33077				Point lies within an excavation.	
		24.00000	2.00000	18.33077				Point lies within an excavation.	
		25.00000	2.00000	18.33077				Point lies within an excavation.	
		26.00000	2.00000	18.33077				Point lies within an excavation.	
		27.00000	2.00000	18.33077				Point lies within an excavation.	
		28.00000	2.00000	18.33077				Point lies within an excavation.	
		29.00000	2.00000	18.33077				Point lies within an excavation.	
		30.00000	2.00000	18.33077				Point lies within an excavation.	
		31.00000	2.00000	18.33077				Point lies within an excavation.	
		32.00000	2.00000	18.33077				Point lies within an excavation.	
		33.00000	2.00000	18.33077				Point lies within an excavation.	
		34.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		35.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		36.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		37.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		38.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		39.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		40.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		41.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		42.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		43.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		44.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		45.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		46.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		47.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		48.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		49.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		50.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		51.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		52.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		53.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		54.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		55.00000	2.00000	18.33077	0.0	0.0	0.0	-	-
		-25.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		-24.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		-23.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		-22.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		-21.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		-20.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		-19.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		-18.00000	3.00000	18.32308	0.0	0.0	0.0038642	-	-
		-17.00000	3.00000	18.32308	0.37500	0.0	0.061035	-	-
		-16.00000	3.00000	18.32308	0.75000	0.0	0.099421	-	-
		-15.00000	3.00000	18.32308	1.12500	0.0	0.14956	-	-
		-14.00000	3.00000	18.32308	1.50000	0.0	0.48501	-	-
		-13.00000	3.00000	18.32308	1.87500	0.0	0.87297	-	-
		-12.00000	3.00000	18.32308	2.25000	0.0	1.3213	-	-
		-11.00000	3.00000	18.32308	2.7141	0.0	1.8344	-	-
		-10.00000	3.00000	18.32308	3.4393	0.0	2.4075	-	-
		-9.00000	3.00000	18.32308	4.1693	0.0	3.0291	-	-
		-8.00000	3.00000	18.32308	4.9152	0.0	3.6912	-	-
		-7.00000	3.00000	18.32308	5.6885	0.0	4.3385	-	-
		-6.00000	3.00000	18.32308	6.5004	0.0	4.9688	-	-
		-5.00000	3.00000	18.32308	7.3624	0.0	5.5330	-	-
		-4.00000	3.00000	18.32308	8.2856	0.0	5.9849	-	-
		-3.00000	3.00000	18.32308	9.2814	0.0	6.2716	-	-
		-2.00000	3.00000	18.32308	10.361	0.0	6.3329	-	-
		-1.00000	3.00000	18.32308	11.536	0.0	6.1019	-	-
		0.00000	3.00000	18.32308	12.818	0.0	5.5046	-	-
		1.00000	3.00000	18.32308				Point lies within an excavation.	
		2.00000	3.00000	18.32308				Point lies within an excavation.	
		3.00000	3.00000	18.32308				Point lies within an excavation.	
		4.00000	3.00000	18.32308				Point lies within an excavation.	
		5.00000	3.00000	18.32308				Point lies within an excavation.	
		6.00000	3.00000	18.32308				Point lies within an excavation.	
		7.00000	3.00000	18.32308				Point lies within an excavation.	
		8.00000	3.00000	18.32308				Point lies within an excavation.	
		9.00000	3.00000	18.32308				Point lies within an excavation.	
		10.00000	3.00000	18.32308				Point lies within an excavation.	
		11.00000	3.00000	18.32308				Point lies within an excavation.	
		12.00000	3.00000	18.32308				Point lies within an excavation.	
		13.00000	3.00000	18.32308				Point lies within an excavation.	
		14.00000	3.00000	18.32308				Point lies within an excavation.	
		15.00000	3.00000	18.32308				Point lies within an excavation.	
		16.00000	3.00000	18.32308				Point lies within an excavation.	
		17.00000	3.00000	18.32308				Point lies within an excavation.	
		18.00000	3.00000	18.32308				Point lies within an excavation.	
		19.00000	3.00000	18.32308				Point lies within an excavation.	
		20.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		21.00000	3.00000	18.32308				Point lies within an excavation.	
		22.00000	3.00000	18.32308				Point lies within an excavation.	
		23.00000	3.00000	18.32308				Point lies within an excavation.	
		24.00000	3.00000	18.32308				Point lies within an excavation.	
		25.00000	3.00000	18.32308				Point lies within an excavation.	
		26.00000	3.00000	18.32308				Point lies within an excavation.	
		27.00000	3.00000	18.32308				Point lies within an excavation.	
		28.00000	3.00000	18.32308				Point lies within an excavation.	
		29.00000	3.00000	18.32308				Point lies within an excavation.	
		30.00000	3.00000	18.32308				Point lies within an excavation.	
		31.00000	3.00000	18.32308				Point lies within an excavation.	
		32.00000	3.00000	18.32308				Point lies within an excavation.	
		33.00000	3.00000	18.32308				Point lies within an excavation.	
		34.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		35.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		36.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		37.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		38.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		39.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		40.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		41.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		42.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		43.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		44.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		45.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		46.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		47.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		48.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		49.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		50.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		51.00000	3.00000	18.32308	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		52.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		53.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		54.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		55.00000	3.00000	18.32308	0.0	0.0	0.0	-	-
		-25.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		-24.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		-23.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		-22.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		-21.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		-20.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		-19.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		-18.00000	4.00000	18.31538	0.0	0.0	0.0038642	-	-
		-17.00000	4.00000	18.31538	0.37500	0.0	0.061035	-	-
		-16.00000	4.00000	18.31538	0.75000	0.0	0.099421	-	-
		-15.00000	4.00000	18.31538	1.1250	0.0	0.14956	-	-
		-14.00000	4.00000	18.31538	1.5000	0.0	0.48501	-	-
		-13.00000	4.00000	18.31538	1.8750	0.0	0.87237	-	-
		-12.00000	4.00000	18.31538	2.2500	0.0	1.3213	-	-
		-11.00000	4.00000	18.31538	2.7141	0.0	1.8344	-	-
		-10.00000	4.00000	18.31538	3.4393	0.0	2.4075	-	-
		-9.00000	4.00000	18.31538	4.1693	0.0	3.0291	-	-
		-8.00000	4.00000	18.31538	4.9152	0.0	3.6812	-	-
		-7.00000	4.00000	18.31538	5.6885	0.0	4.3385	-	-
		-6.00000	4.00000	18.31538	6.5004	0.0	4.9688	-	-
		-5.00000	4.00000	18.31538	7.3624	0.0	5.5330	-	-
		-4.00000	4.00000	18.31538	8.2856	0.0	5.9849	-	-
		-3.00000	4.00000	18.31538	9.2814	0.0	6.2716	-	-
		-2.00000	4.00000	18.31538	10.361	0.0	6.3329	-	-
		-1.00000	4.00000	18.31538	11.536	0.0	6.1019	-	-
		0.00000	4.00000	18.31538	12.818	0.0	5.5046	-	-
		1.00000	4.00000	18.31538				Point lies within an excavation.	
		2.00000	4.00000	18.31538				Point lies within an excavation.	
		3.00000	4.00000	18.31538				Point lies within an excavation.	
		4.00000	4.00000	18.31538				Point lies within an excavation.	
		5.00000	4.00000	18.31538				Point lies within an excavation.	
		6.00000	4.00000	18.31538				Point lies within an excavation.	
		7.00000	4.00000	18.31538				Point lies within an excavation.	
		8.00000	4.00000	18.31538				Point lies within an excavation.	
		9.00000	4.00000	18.31538				Point lies within an excavation.	
		10.00000	4.00000	18.31538				Point lies within an excavation.	
		11.00000	4.00000	18.31538				Point lies within an excavation.	
		12.00000	4.00000	18.31538				Point lies within an excavation.	
		13.00000	4.00000	18.31538				Point lies within an excavation.	
		14.00000	4.00000	18.31538				Point lies within an excavation.	
		15.00000	4.00000	18.31538				Point lies within an excavation.	
		16.00000	4.00000	18.31538				Point lies within an excavation.	
		17.00000	4.00000	18.31538				Point lies within an excavation.	
		18.00000	4.00000	18.31538				Point lies within an excavation.	
		19.00000	4.00000	18.31538				Point lies within an excavation.	
		20.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		21.00000	4.00000	18.31538				Point lies within an excavation.	
		22.00000	4.00000	18.31538				Point lies within an excavation.	
		23.00000	4.00000	18.31538				Point lies within an excavation.	
		24.00000	4.00000	18.31538				Point lies within an excavation.	
		25.00000	4.00000	18.31538				Point lies within an excavation.	
		26.00000	4.00000	18.31538				Point lies within an excavation.	
		27.00000	4.00000	18.31538				Point lies within an excavation.	
		28.00000	4.00000	18.31538				Point lies within an excavation.	
		29.00000	4.00000	18.31538				Point lies within an excavation.	
		30.00000	4.00000	18.31538				Point lies within an excavation.	
		31.00000	4.00000	18.31538				Point lies within an excavation.	
		32.00000	4.00000	18.31538				Point lies within an excavation.	
		33.00000	4.00000	18.31538				Point lies within an excavation.	
		34.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		35.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		36.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		37.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		38.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		39.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		40.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		41.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		42.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		43.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		44.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		45.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		46.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		47.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		48.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		49.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		50.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		51.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		52.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		53.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		54.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		55.00000	4.00000	18.31538	0.0	0.0	0.0	-	-
		-25.00000	5.00000	18.30769	0.0	0.0	0.0	-	-
		-24.00000	5.00000	18.30769	0.0	0.0	0.0	-	-
		-23.00000	5.00000	18.30769	0.0	0.0	0.0	-	-
		-22.00000	5.00000	18.30769	0.0	0.0	0.0	-	-
		-21.00000	5.00000	18.30769	0.0	0.0	0.0	-	-
		-20.00000	5.00000	18.30769	0.0	0.0	0.0	-	-
		-19.00000	5.00000	18.30769	0.0	0.0	0.0	-	-
		-18.00000	5.00000	18.30769	0.0	0.0	0.0038642	-	-
		-17.00000	5.00000	18.30769	0.37500	0.0	0.061035	-	-
		-16.00000	5.00000	18.30769	0.75000	0.0	0.099421	-	-
		-15.00000	5.00000	18.30769	1.1250	0.0	0.14956	-	-
		-14.00000	5.00000	18.30769	1.5000	0.0	0.48501	-	-
		-13.00000	5.00000	18.30769	1.8750	0.0	0.87237	-	-
		-12.00000	5.00000	18.30769	2.2500	0.0	1.3213	-	-
		-11.00000	5.00000	18.30769	2.7141	0.0	1.8344	-	-
		-10.00000	5.00000	18.30769	3.4393	0.0	2.4075	-	-
		-9.00000	5.00000	18.30769	4.1693	0.0	3.0291	-	-
		-8.00000	5.00000	18.30769	4.9152	0.0	3.6812	-	-
		-7.00000	5.00000	18.30769	5.6885	0.0	4.3385	-	-
		-6.00000	5.00000	18.30769	6.5004	0.0	4.9688	-	-
		-5.00000	5.00000	18.30769	7.3624	0.0	5.5330	-	-
		-4.00000	5.00000	18.30769	8.2856	0.0	5.9849	-	-
		-3.00000	5.00000	18.30769	9.2814	0.0	6.2716	-	-
		-2.00000	5.00000	18.30769	10.361	0.0	6.3329	-	-
		-1.00000	5.00000	18.30769	11.536	0.0	6.1019	-	-
		0.00000	5.00000	18.30769	12.818	0.0	5.5046	-	-
		1.00000	5.00000	18.30769				Point lies within an excavation.	
		2.00000	5.00000	18.30769				Point lies within an excavation.	
		3.00000	5.00000	18.30769				Point lies within an excavation.	
		4.00000	5.00000	18.30769				Point lies within an excavation.	
		5.00000	5.00000	18.30769				Point lies within an excavation.	
		6.00000	5.00000	18.30769				Point lies within an excavation.	
		7.00000	5.00000	18.30769				Point lies within an excavation.	
		8.00000	5.00000	18.30769				Point lies within an excavation.	
		9.00000	5.00000	18.30769				Point lies within an excavation.	
		10.00000	5.00000	18.30769				Point lies within an excavation.	
		11.00000	5.00000	18.30769				Point lies within an excavation.	
		12.00000	5.00000	18.30769				Point lies within an excavation.	
		13.00000	5.00000	18.30769				Point lies within an excavation.	
		14.00000	5.00000	18.30769				Point lies within an excavation.	
		15.00000	5.00000	18.30769				Point lies within an excavation.	
		16.00000	5.00000	18.30769				Point lies within an excavation.	
		17.00000	5.00000	18.30769				Point lies within an excavation.	
		18.00000	5.00000	18.30769				Point lies within an excavation.	
		19.00000	5.00000	18.30769				Point lies within an excavation.	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
	20.00000	5.00000	18.30769		0.0	0.0	0.0		-
	21.00000	5.00000	18.30769					Point lies within an excavation.	
	22.00000	5.00000	18.30769					Point lies within an excavation.	
	23.00000	5.00000	18.30769					Point lies within an excavation.	
	24.00000	5.00000	18.30769					Point lies within an excavation.	
	25.00000	5.00000	18.30769					Point lies within an excavation.	
	26.00000	5.00000	18.30769					Point lies within an excavation.	
	27.00000	5.00000	18.30769					Point lies within an excavation.	
	28.00000	5.00000	18.30769					Point lies within an excavation.	
	29.00000	5.00000	18.30769					Point lies within an excavation.	
	30.00000	5.00000	18.30769					Point lies within an excavation.	
	31.00000	5.00000	18.30769					Point lies within an excavation.	
	32.00000	5.00000	18.30769					Point lies within an excavation.	
	33.00000	5.00000	18.30769					Point lies within an excavation.	
	34.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	35.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	36.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	37.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	38.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	39.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	40.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	41.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	42.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	43.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	44.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	45.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	46.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	47.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	48.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	49.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	50.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	51.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	52.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	53.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	54.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	55.00000	5.00000	18.30769		0.0	0.0	0.0	-	-
	-25.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	-24.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	-23.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	-22.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	-21.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	-20.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	-19.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	-18.00000	6.00000	18.30000		0.0	0.0	0.0038642	-	-
	-17.00000	6.00000	18.30000		0.37500	0.0	0.061035	-	-
	-16.00000	6.00000	18.30000		0.75000	0.0	0.099421	-	-
	-15.00000	6.00000	18.30000		1.12500	0.0	0.14956	-	-
	-14.00000	6.00000	18.30000		1.50000	0.0	0.48501	-	-
	-13.00000	6.00000	18.30000		1.87500	0.0	0.87237	-	-
	-12.00000	6.00000	18.30000		2.25000	0.0	1.3213	-	-
	-11.00000	6.00000	18.30000		2.7141	0.0	1.8344	-	-
	-10.00000	6.00000	18.30000		3.4393	0.0	2.4075	-	-
	-9.00000	6.00000	18.30000		4.1693	0.0	3.0291	-	-
	-8.00000	6.00000	18.30000		4.9152	0.0	3.6812	-	-
	-7.00000	6.00000	18.30000		5.6885	0.0	4.3385	-	-
	-6.00000	6.00000	18.30000		6.5004	0.0	4.9698	-	-
	-5.00000	6.00000	18.30000		7.3624	0.0	5.5330	-	-
	-4.00000	6.00000	18.30000		8.2856	0.0	5.9849	-	-
	-3.00000	6.00000	18.30000		9.2814	0.0	6.2716	-	-
	-2.00000	6.00000	18.30000		10.361	0.0	6.3329	-	-
	-1.00000	6.00000	18.30000		11.536	0.0	6.1019	-	-
	0.00000	6.00000	18.30000		12.818	0.0	5.5046	-	-
	1.00000	6.00000	18.30000					Point lies within an excavation.	
	2.00000	6.00000	18.30000					Point lies within an excavation.	
	3.00000	6.00000	18.30000					Point lies within an excavation.	
	4.00000	6.00000	18.30000					Point lies within an excavation.	
	5.00000	6.00000	18.30000					Point lies within an excavation.	
	6.00000	6.00000	18.30000					Point lies within an excavation.	
	7.00000	6.00000	18.30000					Point lies within an excavation.	
	8.00000	6.00000	18.30000					Point lies within an excavation.	
	9.00000	6.00000	18.30000					Point lies within an excavation.	
	10.00000	6.00000	18.30000					Point lies within an excavation.	
	11.00000	6.00000	18.30000					Point lies within an excavation.	
	12.00000	6.00000	18.30000					Point lies within an excavation.	
	13.00000	6.00000	18.30000					Point lies within an excavation.	
	14.00000	6.00000	18.30000					Point lies within an excavation.	
	15.00000	6.00000	18.30000					Point lies within an excavation.	
	16.00000	6.00000	18.30000					Point lies within an excavation.	
	17.00000	6.00000	18.30000					Point lies within an excavation.	
	18.00000	6.00000	18.30000					Point lies within an excavation.	
	19.00000	6.00000	18.30000					Point lies within an excavation.	
	20.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	21.00000	6.00000	18.30000					Point lies within an excavation.	
	22.00000	6.00000	18.30000					Point lies within an excavation.	
	23.00000	6.00000	18.30000					Point lies within an excavation.	
	24.00000	6.00000	18.30000					Point lies within an excavation.	
	25.00000	6.00000	18.30000					Point lies within an excavation.	
	26.00000	6.00000	18.30000					Point lies within an excavation.	
	27.00000	6.00000	18.30000					Point lies within an excavation.	
	28.00000	6.00000	18.30000					Point lies within an excavation.	
	29.00000	6.00000	18.30000					Point lies within an excavation.	
	30.00000	6.00000	18.30000					Point lies within an excavation.	
	31.00000	6.00000	18.30000					Point lies within an excavation.	
	32.00000	6.00000	18.30000					Point lies within an excavation.	
	33.00000	6.00000	18.30000					Point lies within an excavation.	
	34.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	35.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	36.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	37.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	38.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	39.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	40.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	41.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	42.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	43.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	44.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	45.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	46.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	47.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	48.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	49.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	50.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	51.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	52.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	53.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	54.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	55.00000	6.00000	18.30000		0.0	0.0	0.0	-	-
	-25.00000	7.00000	18.29231		0.0	0.0	0.0	-	-
	-24.00000	7.00000	18.29231		0.0	0.0	0.0	-	-
	-23.00000	7.00000	18.29231		0.0	0.0	0.0	-	-
	-22.00000	7.00000	18.29231		0.0	0.0	0.0	-	-
	-21.00000	7.00000	18.29231		0.0	0.0	0.0	-	-
	-20.00000	7.00000	18.29231		0.0	0.0	0.0	-	-
	-19.00000	7.00000	18.29231		0.0	0.0	0.0	-	-
	-18.00000	7.00000	18.29231		0.0	0.0	0.0038642	-	-
	-17.00000	7.00000	18.29231		0.37500	0.0	0.061035	-	-
	-16.00000	7.00000	18.29231		0.75000	0.0	0.099421	-	-
	-15.00000	7.00000	18.29231		1.12500	0.0	0.14956	-	-
	-14.00000	7.00000	18.29231		1.50000	0.0	0.48501	-	-
	-13.00000	7.00000	18.29231		1.87500	0.0	0.87237	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-12.00000	7.00000	18.29231	2.2500	0.0	1.3213	-	-
		-11.00000	7.00000	18.29231	2.7141	0.0	1.8344	-	-
		-10.00000	7.00000	18.29231	3.4393	0.0	2.4075	-	-
		-9.00000	7.00000	18.29231	4.1693	0.0	3.0291	-	-
		-8.00000	7.00000	18.29231	4.9152	0.0	3.6812	-	-
		-7.00000	7.00000	18.29231	5.6885	0.0	4.3385	-	-
		-6.00000	7.00000	18.29231	6.5004	0.0	4.9688	-	-
		-5.00000	7.00000	18.29231	7.3624	0.0	5.5330	-	-
		-4.00000	7.00000	18.29231	8.2856	0.0	5.9849	-	-
		-3.00000	7.00000	18.29231	9.2814	0.0	6.2716	-	-
		-2.00000	7.00000	18.29231	10.361	0.0	6.3329	-	-
		-1.00000	7.00000	18.29231	11.536	0.0	6.1019	-	-
		0.00000	7.00000	18.29231	12.818	0.0	5.5046	-	-
		1.00000	7.00000	18.29231				Point lies within an excavation.	
		2.00000	7.00000	18.29231				Point lies within an excavation.	
		3.00000	7.00000	18.29231				Point lies within an excavation.	
		4.00000	7.00000	18.29231				Point lies within an excavation.	
		5.00000	7.00000	18.29231				Point lies within an excavation.	
		6.00000	7.00000	18.29231				Point lies within an excavation.	
		7.00000	7.00000	18.29231				Point lies within an excavation.	
		8.00000	7.00000	18.29231				Point lies within an excavation.	
		9.00000	7.00000	18.29231				Point lies within an excavation.	
		10.00000	7.00000	18.29231				Point lies within an excavation.	
		11.00000	7.00000	18.29231				Point lies within an excavation.	
		12.00000	7.00000	18.29231				Point lies within an excavation.	
		13.00000	7.00000	18.29231				Point lies within an excavation.	
		14.00000	7.00000	18.29231				Point lies within an excavation.	
		15.00000	7.00000	18.29231				Point lies within an excavation.	
		16.00000	7.00000	18.29231				Point lies within an excavation.	
		17.00000	7.00000	18.29231				Point lies within an excavation.	
		18.00000	7.00000	18.29231				Point lies within an excavation.	
		19.00000	7.00000	18.29231				Point lies within an excavation.	
		20.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		21.00000	7.00000	18.29231				Point lies within an excavation.	
		22.00000	7.00000	18.29231				Point lies within an excavation.	
		23.00000	7.00000	18.29231				Point lies within an excavation.	
		24.00000	7.00000	18.29231				Point lies within an excavation.	
		25.00000	7.00000	18.29231				Point lies within an excavation.	
		26.00000	7.00000	18.29231				Point lies within an excavation.	
		27.00000	7.00000	18.29231				Point lies within an excavation.	
		28.00000	7.00000	18.29231				Point lies within an excavation.	
		29.00000	7.00000	18.29231				Point lies within an excavation.	
		30.00000	7.00000	18.29231				Point lies within an excavation.	
		31.00000	7.00000	18.29231				Point lies within an excavation.	
		32.00000	7.00000	18.29231				Point lies within an excavation.	
		33.00000	7.00000	18.29231				Point lies within an excavation.	
		34.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		35.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		36.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		37.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		38.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		39.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		40.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		41.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		42.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		43.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		44.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		45.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		46.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		47.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		48.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		49.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		50.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		51.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		52.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		53.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		54.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		55.00000	7.00000	18.29231	0.0	0.0	0.0	-	-
		-25.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		-24.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		-23.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		-22.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		-21.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		-20.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		-19.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		-18.00000	8.00000	18.28462	0.0	0.0038642	0.0	-	-
		-17.00000	8.00000	18.28462	0.37500	0.0	0.061035	-	-
		-16.00000	8.00000	18.28462	0.75000	0.0	0.099421	-	-
		-15.00000	8.00000	18.28462	1.1250	0.0	0.14956	-	-
		-14.00000	8.00000	18.28462	1.5000	0.0	0.48501	-	-
		-13.00000	8.00000	18.28462	1.8750	0.0	0.87237	-	-
		-12.00000	8.00000	18.28462	2.2500	0.0	1.3213	-	-
		-11.00000	8.00000	18.28462	2.7141	0.0	1.8344	-	-
		-10.00000	8.00000	18.28462	3.4393	0.0	2.4075	-	-
		-9.00000	8.00000	18.28462	4.1693	0.0	3.0291	-	-
		-8.00000	8.00000	18.28462	4.9152	0.0	3.6812	-	-
		-7.00000	8.00000	18.28462	5.6885	0.0	4.3385	-	-
		-6.00000	8.00000	18.28462	6.5004	0.0	4.9688	-	-
		-5.00000	8.00000	18.28462	7.3624	0.0	5.5330	-	-
		-4.00000	8.00000	18.28462	8.2856	0.0	5.9849	-	-
		-3.00000	8.00000	18.28462	9.2814	0.0	6.2716	-	-
		-2.00000	8.00000	18.28462	10.361	0.0	6.3329	-	-
		-1.00000	8.00000	18.28462	11.536	0.0	6.1019	-	-
		0.00000	8.00000	18.28462	12.818	0.0	5.5046	-	-
		1.00000	8.00000	18.28462				Point lies within an excavation.	
		2.00000	8.00000	18.28462				Point lies within an excavation.	
		3.00000	8.00000	18.28462				Point lies within an excavation.	
		4.00000	8.00000	18.28462				Point lies within an excavation.	
		5.00000	8.00000	18.28462				Point lies within an excavation.	
		6.00000	8.00000	18.28462				Point lies within an excavation.	
		7.00000	8.00000	18.28462				Point lies within an excavation.	
		8.00000	8.00000	18.28462				Point lies within an excavation.	
		9.00000	8.00000	18.28462				Point lies within an excavation.	
		10.00000	8.00000	18.28462				Point lies within an excavation.	
		11.00000	8.00000	18.28462				Point lies within an excavation.	
		12.00000	8.00000	18.28462				Point lies within an excavation.	
		13.00000	8.00000	18.28462				Point lies within an excavation.	
		14.00000	8.00000	18.28462				Point lies within an excavation.	
		15.00000	8.00000	18.28462				Point lies within an excavation.	
		16.00000	8.00000	18.28462				Point lies within an excavation.	
		17.00000	8.00000	18.28462				Point lies within an excavation.	
		18.00000	8.00000	18.28462				Point lies within an excavation.	
		19.00000	8.00000	18.28462				Point lies within an excavation.	
		20.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		21.00000	8.00000	18.28462				Point lies within an excavation.	
		22.00000	8.00000	18.28462				Point lies within an excavation.	
		23.00000	8.00000	18.28462				Point lies within an excavation.	
		24.00000	8.00000	18.28462				Point lies within an excavation.	
		25.00000	8.00000	18.28462				Point lies within an excavation.	
		26.00000	8.00000	18.28462				Point lies within an excavation.	
		27.00000	8.00000	18.28462				Point lies within an excavation.	
		28.00000	8.00000	18.28462				Point lies within an excavation.	
		29.00000	8.00000	18.28462				Point lies within an excavation.	
		30.00000	8.00000	18.28462				Point lies within an excavation.	
		31.00000	8.00000	18.28462				Point lies within an excavation.	
		32.00000	8.00000	18.28462				Point lies within an excavation.	
		33.00000	8.00000	18.28462				Point lies within an excavation.	
		34.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		35.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		36.00000	8.00000	18.28462	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		37.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		38.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		39.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		40.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		41.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		42.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		43.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		44.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		45.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		46.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		47.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		48.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		49.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		50.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		51.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		52.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		53.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		54.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		55.00000	8.00000	18.28462	0.0	0.0	0.0	-	-
		-25.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		-24.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		-23.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		-22.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		-21.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		-20.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		-19.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		-18.00000	9.00000	18.27692	0.0	0.0	0.0038642	-	-
		-17.00000	9.00000	18.27692	0.37500	0.0	0.061035	-	-
		-16.00000	9.00000	18.27692	0.75000	0.0	0.099421	-	-
		-15.00000	9.00000	18.27692	1.1250	0.0	0.14956	-	-
		-14.00000	9.00000	18.27692	1.5000	0.0	0.48501	-	-
		-13.00000	9.00000	18.27692	1.8750	0.0	0.87237	-	-
		-12.00000	9.00000	18.27692	2.2500	0.0	1.3213	-	-
		-11.00000	9.00000	18.27692	2.7141	0.0	1.8344	-	-
		-10.00000	9.00000	18.27692	3.4393	0.0	2.4075	-	-
		-9.00000	9.00000	18.27692	4.1693	0.0	3.0291	-	-
		-8.00000	9.00000	18.27692	4.9152	0.0	3.6812	-	-
		-7.00000	9.00000	18.27692	5.6885	0.0	4.3385	-	-
		-6.00000	9.00000	18.27692	6.5004	0.0	4.9688	-	-
		-5.00000	9.00000	18.27692	7.3624	0.0	5.5330	-	-
		-4.00000	9.00000	18.27692	8.2856	0.0	5.9849	-	-
		-3.00000	9.00000	18.27692	9.2814	0.0	6.2716	-	-
		-2.00000	9.00000	18.27692	10.361	0.0	6.3329	-	-
		-1.00000	9.00000	18.27692	11.536	0.0	6.1019	-	-
		0.00000	9.00000	18.27692	12.818	0.0	5.5046	-	-
		1.00000	9.00000	18.27692			Point lies within an excavation.		
		2.00000	9.00000	18.27692			Point lies within an excavation.		
		3.00000	9.00000	18.27692			Point lies within an excavation.		
		4.00000	9.00000	18.27692			Point lies within an excavation.		
		5.00000	9.00000	18.27692			Point lies within an excavation.		
		6.00000	9.00000	18.27692			Point lies within an excavation.		
		7.00000	9.00000	18.27692			Point lies within an excavation.		
		8.00000	9.00000	18.27692			Point lies within an excavation.		
		9.00000	9.00000	18.27692			Point lies within an excavation.		
		10.00000	9.00000	18.27692			Point lies within an excavation.		
		11.00000	9.00000	18.27692			Point lies within an excavation.		
		12.00000	9.00000	18.27692			Point lies within an excavation.		
		13.00000	9.00000	18.27692			Point lies within an excavation.		
		14.00000	9.00000	18.27692			Point lies within an excavation.		
		15.00000	9.00000	18.27692			Point lies within an excavation.		
		16.00000	9.00000	18.27692			Point lies within an excavation.		
		17.00000	9.00000	18.27692			Point lies within an excavation.		
		18.00000	9.00000	18.27692			Point lies within an excavation.		
		19.00000	9.00000	18.27692			Point lies within an excavation.		
		20.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		21.00000	9.00000	18.27692			Point lies within an excavation.		
		22.00000	9.00000	18.27692			Point lies within an excavation.		
		23.00000	9.00000	18.27692			Point lies within an excavation.		
		24.00000	9.00000	18.27692			Point lies within an excavation.		
		25.00000	9.00000	18.27692			Point lies within an excavation.		
		26.00000	9.00000	18.27692			Point lies within an excavation.		
		27.00000	9.00000	18.27692			Point lies within an excavation.		
		28.00000	9.00000	18.27692			Point lies within an excavation.		
		29.00000	9.00000	18.27692			Point lies within an excavation.		
		30.00000	9.00000	18.27692			Point lies within an excavation.		
		31.00000	9.00000	18.27692			Point lies within an excavation.		
		32.00000	9.00000	18.27692			Point lies within an excavation.		
		33.00000	9.00000	18.27692			Point lies within an excavation.		
		34.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		35.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		36.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		37.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		38.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		39.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		40.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		41.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		42.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		43.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		44.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		45.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		46.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		47.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		48.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		49.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		50.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		51.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		52.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		53.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		54.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		55.00000	9.00000	18.27692	0.0	0.0	0.0	-	-
		-25.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		-24.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		-23.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		-22.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		-21.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		-20.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		-19.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		-18.00000	10.00000	18.26923	0.0	0.0	0.0038642	-	-
		-17.00000	10.00000	18.26923	0.37500	0.0	0.061035	-	-
		-16.00000	10.00000	18.26923	0.75000	0.0	0.099421	-	-
		-15.00000	10.00000	18.26923	1.1250	0.0	0.14956	-	-
		-14.00000	10.00000	18.26923	1.5000	0.0	0.48501	-	-
		-13.00000	10.00000	18.26923	1.8750	0.0	0.87237	-	-
		-12.00000	10.00000	18.26923	2.2500	0.0	1.3213	-	-
		-11.00000	10.00000	18.26923	2.7141	0.0	1.8344	-	-
		-10.00000	10.00000	18.26923	3.4393	0.0	2.4075	-	-
		-9.00000	10.00000	18.26923	4.1693	0.0	3.0291	-	-
		-8.00000	10.00000	18.26923	4.9152	0.0	3.6812	-	-
		-7.00000	10.00000	18.26923	5.6885	0.0	4.3385	-	-
		-6.00000	10.00000	18.26923	6.5004	0.0	4.9688	-	-
		-5.00000	10.00000	18.26923	7.3624	0.0	5.5330	-	-
		-4.00000	10.00000	18.26923	8.2856	0.0	5.9849	-	-
		-3.00000	10.00000	18.26923	9.2814	0.0	6.2716	-	-
		-2.00000	10.00000	18.26923	10.361	0.0	6.3329	-	-
		-1.00000	10.00000	18.26923	11.536	0.0	6.1019	-	-
		0.00000	10.00000	18.26923	12.818	0.0	5.5046	-	-
		1.00000	10.00000	18.26923			Point lies within an excavation.		
		2.00000	10.00000	18.26923			Point lies within an excavation.		
		3.00000	10.00000	18.26923			Point lies within an excavation.		
		4.00000	10.00000	18.26923			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
		5.00000	10.00000	18.26923				Point lies within an excavation.	
		6.00000	10.00000	18.26923				Point lies within an excavation.	
		7.00000	10.00000	18.26923				Point lies within an excavation.	
		8.00000	10.00000	18.26923				Point lies within an excavation.	
		9.00000	10.00000	18.26923				Point lies within an excavation.	
		10.00000	10.00000	18.26923				Point lies within an excavation.	
		11.00000	10.00000	18.26923				Point lies within an excavation.	
		12.00000	10.00000	18.26923				Point lies within an excavation.	
		13.00000	10.00000	18.26923				Point lies within an excavation.	
		14.00000	10.00000	18.26923				Point lies within an excavation.	
		15.00000	10.00000	18.26923				Point lies within an excavation.	
		16.00000	10.00000	18.26923				Point lies within an excavation.	
		17.00000	10.00000	18.26923				Point lies within an excavation.	
		18.00000	10.00000	18.26923				Point lies within an excavation.	
		19.00000	10.00000	18.26923				Point lies within an excavation.	
		20.00000	10.00000	18.26923	0.0		0.0	-	-
		21.00000	10.00000	18.26923				Point lies within an excavation.	
		22.00000	10.00000	18.26923				Point lies within an excavation.	
		23.00000	10.00000	18.26923				Point lies within an excavation.	
		24.00000	10.00000	18.26923				Point lies within an excavation.	
		25.00000	10.00000	18.26923				Point lies within an excavation.	
		26.00000	10.00000	18.26923				Point lies within an excavation.	
		27.00000	10.00000	18.26923				Point lies within an excavation.	
		28.00000	10.00000	18.26923				Point lies within an excavation.	
		29.00000	10.00000	18.26923				Point lies within an excavation.	
		30.00000	10.00000	18.26923				Point lies within an excavation.	
		31.00000	10.00000	18.26923				Point lies within an excavation.	
		32.00000	10.00000	18.26923				Point lies within an excavation.	
		33.00000	10.00000	18.26923				Point lies within an excavation.	
		34.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		35.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		36.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		37.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		38.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		39.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		40.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		41.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		42.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		43.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		44.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		45.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		46.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		47.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		48.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		49.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		50.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		51.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		52.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		53.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		54.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		55.00000	10.00000	18.26923	0.0	0.0	0.0	-	-
		-25.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		-24.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		-23.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		-22.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		-21.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		-20.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		-19.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		-18.00000	11.00000	18.26154	0.0	0.0	0.0038642	-	-
		-17.00000	11.00000	18.26154	0.37500	0.0	0.061035	-	-
		-16.00000	11.00000	18.26154	0.75000	0.0	0.09421	-	-
		-15.00000	11.00000	18.26154	1.12500	0.0	0.14956	-	-
		-14.00000	11.00000	18.26154	1.50000	0.0	0.48501	-	-
		-13.00000	11.00000	18.26154	1.87500	0.0	0.87237	-	-
		-12.00000	11.00000	18.26154	2.25000	0.0	1.3213	-	-
		-11.00000	11.00000	18.26154	2.7141	0.0	1.8344	-	-
		-10.00000	11.00000	18.26154	3.4393	0.0	2.4075	-	-
		-9.00000	11.00000	18.26154	4.1693	0.0	3.0291	-	-
		-8.00000	11.00000	18.26154	4.9152	0.0	3.6812	-	-
		-7.00000	11.00000	18.26154	5.6885	0.0	4.3385	-	-
		-6.00000	11.00000	18.26154	6.5004	0.0	4.9698	-	-
		-5.00000	11.00000	18.26154	7.3624	0.0	5.5330	-	-
		-4.00000	11.00000	18.26154	8.2856	0.0	5.9849	-	-
		-3.00000	11.00000	18.26154	9.2814	0.0	6.2716	-	-
		-2.00000	11.00000	18.26154	10.361	0.0	6.3329	-	-
		-1.00000	11.00000	18.26154	11.536	0.0	6.1019	-	-
		0.00000	11.00000	18.26154	12.818	0.0	5.5046	-	-
		1.00000	11.00000	18.26154				Point lies within an excavation.	
		2.00000	11.00000	18.26154				Point lies within an excavation.	
		3.00000	11.00000	18.26154				Point lies within an excavation.	
		4.00000	11.00000	18.26154				Point lies within an excavation.	
		5.00000	11.00000	18.26154				Point lies within an excavation.	
		6.00000	11.00000	18.26154				Point lies within an excavation.	
		7.00000	11.00000	18.26154				Point lies within an excavation.	
		8.00000	11.00000	18.26154				Point lies within an excavation.	
		9.00000	11.00000	18.26154				Point lies within an excavation.	
		10.00000	11.00000	18.26154				Point lies within an excavation.	
		11.00000	11.00000	18.26154				Point lies within an excavation.	
		12.00000	11.00000	18.26154				Point lies within an excavation.	
		13.00000	11.00000	18.26154				Point lies within an excavation.	
		14.00000	11.00000	18.26154				Point lies within an excavation.	
		15.00000	11.00000	18.26154				Point lies within an excavation.	
		16.00000	11.00000	18.26154				Point lies within an excavation.	
		17.00000	11.00000	18.26154				Point lies within an excavation.	
		18.00000	11.00000	18.26154				Point lies within an excavation.	
		19.00000	11.00000	18.26154				Point lies within an excavation.	
		20.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		21.00000	11.00000	18.26154				Point lies within an excavation.	
		22.00000	11.00000	18.26154				Point lies within an excavation.	
		23.00000	11.00000	18.26154				Point lies within an excavation.	
		24.00000	11.00000	18.26154				Point lies within an excavation.	
		25.00000	11.00000	18.26154				Point lies within an excavation.	
		26.00000	11.00000	18.26154				Point lies within an excavation.	
		27.00000	11.00000	18.26154				Point lies within an excavation.	
		28.00000	11.00000	18.26154				Point lies within an excavation.	
		29.00000	11.00000	18.26154				Point lies within an excavation.	
		30.00000	11.00000	18.26154				Point lies within an excavation.	
		31.00000	11.00000	18.26154				Point lies within an excavation.	
		32.00000	11.00000	18.26154				Point lies within an excavation.	
		33.00000	11.00000	18.26154				Point lies within an excavation.	
		34.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		35.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		36.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		37.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		38.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		39.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		40.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		41.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		42.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		43.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		44.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		45.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		46.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		47.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		48.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		49.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		50.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		51.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		52.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		53.00000	11.00000	18.26154	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		54.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		55.00000	11.00000	18.26154	0.0	0.0	0.0	-	-
		-25.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		-24.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		-23.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		-22.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		-21.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		-20.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		-19.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		-18.00000	12.00000	18.25385	0.0	0.0	0.0038642	-	-
		-17.00000	12.00000	18.25385	0.37500	0.0	0.061035	-	-
		-16.00000	12.00000	18.25385	0.75000	0.0	0.099421	-	-
		-15.00000	12.00000	18.25385	1.12500	0.0	0.14956	-	-
		-14.00000	12.00000	18.25385	1.50000	0.0	0.48501	-	-
		-13.00000	12.00000	18.25385	1.87500	0.0	0.87237	-	-
		-12.00000	12.00000	18.25385	2.25000	0.0	1.3213	-	-
		-11.00000	12.00000	18.25385	2.7141	0.0	1.8344	-	-
		-10.00000	12.00000	18.25385	3.4393	0.0	2.4075	-	-
		-9.00000	12.00000	18.25385	4.1693	0.0	3.0291	-	-
		-8.00000	12.00000	18.25385	4.9152	0.0	3.6812	-	-
		-7.00000	12.00000	18.25385	5.6885	0.0	4.3385	-	-
		-6.00000	12.00000	18.25385	6.5004	0.0	4.9688	-	-
		-5.00000	12.00000	18.25385	7.3624	0.0	5.5330	-	-
		-4.00000	12.00000	18.25385	8.2856	0.0	5.9849	-	-
		-3.00000	12.00000	18.25385	9.2814	0.0	6.2716	-	-
		-2.00000	12.00000	18.25385	10.361	0.0	6.3329	-	-
		-1.00000	12.00000	18.25385	11.536	0.0	6.1019	-	-
		0.00000	12.00000	18.25385	12.818	0.0	5.5046	-	-
		1.00000	12.00000	18.25385			Point lies within an excavation.		
		2.00000	12.00000	18.25385			Point lies within an excavation.		
		3.00000	12.00000	18.25385			Point lies within an excavation.		
		4.00000	12.00000	18.25385			Point lies within an excavation.		
		5.00000	12.00000	18.25385			Point lies within an excavation.		
		6.00000	12.00000	18.25385			Point lies within an excavation.		
		7.00000	12.00000	18.25385			Point lies within an excavation.		
		8.00000	12.00000	18.25385			Point lies within an excavation.		
		9.00000	12.00000	18.25385			Point lies within an excavation.		
		10.00000	12.00000	18.25385			Point lies within an excavation.		
		11.00000	12.00000	18.25385			Point lies within an excavation.		
		12.00000	12.00000	18.25385			Point lies within an excavation.		
		13.00000	12.00000	18.25385			Point lies within an excavation.		
		14.00000	12.00000	18.25385			Point lies within an excavation.		
		15.00000	12.00000	18.25385			Point lies within an excavation.		
		16.00000	12.00000	18.25385			Point lies within an excavation.		
		17.00000	12.00000	18.25385			Point lies within an excavation.		
		18.00000	12.00000	18.25385			Point lies within an excavation.		
		19.00000	12.00000	18.25385			Point lies within an excavation.		
		20.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		21.00000	12.00000	18.25385			Point lies within an excavation.		
		22.00000	12.00000	18.25385			Point lies within an excavation.		
		23.00000	12.00000	18.25385			Point lies within an excavation.		
		24.00000	12.00000	18.25385			Point lies within an excavation.		
		25.00000	12.00000	18.25385			Point lies within an excavation.		
		26.00000	12.00000	18.25385			Point lies within an excavation.		
		27.00000	12.00000	18.25385			Point lies within an excavation.		
		28.00000	12.00000	18.25385			Point lies within an excavation.		
		29.00000	12.00000	18.25385			Point lies within an excavation.		
		30.00000	12.00000	18.25385			Point lies within an excavation.		
		31.00000	12.00000	18.25385			Point lies within an excavation.		
		32.00000	12.00000	18.25385			Point lies within an excavation.		
		33.00000	12.00000	18.25385			Point lies within an excavation.		
		34.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		35.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		36.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		37.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		38.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		39.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		40.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		41.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		42.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		43.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		44.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		45.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		46.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		47.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		48.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		49.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		50.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		51.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		52.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		53.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		54.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		55.00000	12.00000	18.25385	0.0	0.0	0.0	-	-
		-25.00000	13.00000	18.24615	0.0	0.0	0.0	-	-
		-24.00000	13.00000	18.24615	0.0	0.0	0.0	-	-
		-23.00000	13.00000	18.24615	0.0	0.0	0.0	-	-
		-22.00000	13.00000	18.24615	0.0	0.0	0.0	-	-
		-21.00000	13.00000	18.24615	0.0	0.0	0.0	-	-
		-20.00000	13.00000	18.24615	0.0	0.0	0.0	-	-
		-19.00000	13.00000	18.24615	0.0	0.0	0.0	-	-
		-18.00000	13.00000	18.24615	0.0	0.0	0.0038642	-	-
		-17.00000	13.00000	18.24615	0.37500	0.0	0.061035	-	-
		-16.00000	13.00000	18.24615	0.75000	0.0	0.099421	-	-
		-15.00000	13.00000	18.24615	1.12500	0.0	0.14956	-	-
		-14.00000	13.00000	18.24615	1.50000	0.0	0.48501	-	-
		-13.00000	13.00000	18.24615	1.87500	0.0	0.87237	-	-
		-12.00000	13.00000	18.24615	2.25000	0.0	1.3213	-	-
		-11.00000	13.00000	18.24615	2.7141	0.0	1.8344	-	-
		-10.00000	13.00000	18.24615	3.4393	0.0	2.4075	-	-
		-9.00000	13.00000	18.24615	4.1693	0.0	3.0291	-	-
		-8.00000	13.00000	18.24615	4.9152	0.0	3.6812	-	-
		-7.00000	13.00000	18.24615	5.6885	0.0	4.3385	-	-
		-6.00000	13.00000	18.24615	6.5004	0.0	4.9688	-	-
		-5.00000	13.00000	18.24615	7.3624	0.0	5.5330	-	-
		-4.00000	13.00000	18.24615	8.2856	0.0	5.9849	-	-
		-3.00000	13.00000	18.24615	9.2814	0.0	6.2716	-	-
		-2.00000	13.00000	18.24615	10.361	0.0	6.3329	-	-
		-1.00000	13.00000	18.24615	11.536	0.0	6.1019	-	-
		0.00000	13.00000	18.24615	12.818	0.0	5.5046	-	-
		1.00000	13.00000	18.24615			Point lies within an excavation.		
		2.00000	13.00000	18.24615			Point lies within an excavation.		
		3.00000	13.00000	18.24615			Point lies within an excavation.		
		4.00000	13.00000	18.24615			Point lies within an excavation.		
		5.00000	13.00000	18.24615			Point lies within an excavation.		
		6.00000	13.00000	18.24615			Point lies within an excavation.		
		7.00000	13.00000	18.24615			Point lies within an excavation.		
		8.00000	13.00000	18.24615			Point lies within an excavation.		
		9.00000	13.00000	18.24615			Point lies within an excavation.		
		10.00000	13.00000	18.24615			Point lies within an excavation.		
		11.00000	13.00000	18.24615			Point lies within an excavation.		
		12.00000	13.00000	18.24615			Point lies within an excavation.		
		13.00000	13.00000	18.24615			Point lies within an excavation.		
		14.00000	13.00000	18.24615			Point lies within an excavation.		
		15.00000	13.00000	18.24615			Point lies within an excavation.		
		16.00000	13.00000	18.24615			Point lies within an excavation.		
		17.00000	13.00000	18.24615			Point lies within an excavation.		
		18.00000	13.00000	18.24615			Point lies within an excavation.		
		19.00000	13.00000	18.24615			Point lies within an excavation.		
		20.00000	13.00000	18.24615	0.0	0.0	0.0	-	-
		21.00000	13.00000	18.24615			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
	22.00000	13.00000	18.24615					Point lies within an excavation.	
	23.00000	13.00000	18.24615					Point lies within an excavation.	
	24.00000	13.00000	18.24615					Point lies within an excavation.	
	25.00000	13.00000	18.24615					Point lies within an excavation.	
	26.00000	13.00000	18.24615					Point lies within an excavation.	
	27.00000	13.00000	18.24615					Point lies within an excavation.	
	28.00000	13.00000	18.24615					Point lies within an excavation.	
	29.00000	13.00000	18.24615					Point lies within an excavation.	
	30.00000	13.00000	18.24615					Point lies within an excavation.	
	31.00000	13.00000	18.24615					Point lies within an excavation.	
	32.00000	13.00000	18.24615					Point lies within an excavation.	
	33.00000	13.00000	18.24615					Point lies within an excavation.	
	34.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	35.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	36.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	37.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	38.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	39.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	40.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	41.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	42.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	43.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	44.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	45.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	46.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	47.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	48.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	49.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	50.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	51.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	52.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	53.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	54.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	55.00000	13.00000	18.24615		0.0	0.0	0.0	-	-
	-25.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	-24.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	-23.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	-22.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	-21.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	-20.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	-19.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	-18.00000	14.00000	18.23846		0.0	0.0	0.0038642	-	-
	-17.00000	14.00000	18.23846		0.37500	0.0	0.061035	-	-
	-16.00000	14.00000	18.23846		0.75000	0.0	0.099421	-	-
	-15.00000	14.00000	18.23846		1.1250	0.0	0.14956	-	-
	-14.00000	14.00000	18.23846		1.5000	0.0	0.48501	-	-
	-13.00000	14.00000	18.23846		1.8750	0.0	0.87237	-	-
	-12.00000	14.00000	18.23846		2.2500	0.0	1.3213	-	-
	-11.00000	14.00000	18.23846		2.7141	0.0	1.8344	-	-
	-10.00000	14.00000	18.23846		3.4393	0.0	2.4075	-	-
	-9.00000	14.00000	18.23846		4.1693	0.0	3.0291	-	-
	-8.00000	14.00000	18.23846		4.9152	0.0	3.6812	-	-
	-7.00000	14.00000	18.23846		5.6885	0.0	4.3385	-	-
	-6.00000	14.00000	18.23846		6.5004	0.0	4.9688	-	-
	-5.00000	14.00000	18.23846		7.3624	0.0	5.5330	-	-
	-4.00000	14.00000	18.23846		8.2256	0.0	5.9849	-	-
	-3.00000	14.00000	18.23846		9.2814	0.0	6.2716	-	-
	-2.00000	14.00000	18.23846		10.361	0.0	6.3329	-	-
	-1.00000	14.00000	18.23846		11.536	0.0	6.1019	-	-
	0.00000	14.00000	18.23846		12.818	0.0	5.5046	-	-
	1.00000	14.00000	18.23846					Point lies within an excavation.	
	2.00000	14.00000	18.23846					Point lies within an excavation.	
	3.00000	14.00000	18.23846					Point lies within an excavation.	
	4.00000	14.00000	18.23846					Point lies within an excavation.	
	5.00000	14.00000	18.23846					Point lies within an excavation.	
	6.00000	14.00000	18.23846					Point lies within an excavation.	
	7.00000	14.00000	18.23846					Point lies within an excavation.	
	8.00000	14.00000	18.23846					Point lies within an excavation.	
	9.00000	14.00000	18.23846					Point lies within an excavation.	
	10.00000	14.00000	18.23846					Point lies within an excavation.	
	11.00000	14.00000	18.23846					Point lies within an excavation.	
	12.00000	14.00000	18.23846					Point lies within an excavation.	
	13.00000	14.00000	18.23846					Point lies within an excavation.	
	14.00000	14.00000	18.23846					Point lies within an excavation.	
	15.00000	14.00000	18.23846					Point lies within an excavation.	
	16.00000	14.00000	18.23846					Point lies within an excavation.	
	17.00000	14.00000	18.23846					Point lies within an excavation.	
	18.00000	14.00000	18.23846					Point lies within an excavation.	
	19.00000	14.00000	18.23846					Point lies within an excavation.	
	20.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	21.00000	14.00000	18.23846					Point lies within an excavation.	
	22.00000	14.00000	18.23846					Point lies within an excavation.	
	23.00000	14.00000	18.23846					Point lies within an excavation.	
	24.00000	14.00000	18.23846					Point lies within an excavation.	
	25.00000	14.00000	18.23846					Point lies within an excavation.	
	26.00000	14.00000	18.23846					Point lies within an excavation.	
	27.00000	14.00000	18.23846					Point lies within an excavation.	
	28.00000	14.00000	18.23846					Point lies within an excavation.	
	29.00000	14.00000	18.23846					Point lies within an excavation.	
	30.00000	14.00000	18.23846					Point lies within an excavation.	
	31.00000	14.00000	18.23846					Point lies within an excavation.	
	32.00000	14.00000	18.23846					Point lies within an excavation.	
	33.00000	14.00000	18.23846					Point lies within an excavation.	
	34.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	35.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	36.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	37.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	38.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	39.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	40.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	41.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	42.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	43.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	44.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	45.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	46.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	47.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	48.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	49.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	50.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	51.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	52.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	53.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	54.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	55.00000	14.00000	18.23846		0.0	0.0	0.0	-	-
	-25.00000	15.00000	18.23077		0.0	0.0	0.0	-	-
	-24.00000	15.00000	18.23077		0.0	0.0	0.0	-	-
	-23.00000	15.00000	18.23077		0.0	0.0	0.0	-	-
	-22.00000	15.00000	18.23077		0.0	0.0	0.0	-	-
	-21.00000	15.00000	18.23077		0.0	0.0	0.0	-	-
	-20.00000	15.00000	18.23077		0.0	0.0	0.0	-	-
	-19.00000	15.00000	18.23077		0.0	0.0	0.0	-	-
	-18.00000	15.00000	18.23077		0.0	0.0	0.0038642	-	-
	-17.00000	15.00000	18.23077		0.37500	0.0	0.061035	-	-
	-16.00000	15.00000	18.23077		0.75000	0.0	0.099421	-	-
	-15.00000	15.00000	18.23077		1.1250	0.0	0.14956	-	-
	-14.00000	15.00000	18.23077		1.5000	0.0	0.48501	-	-
	-13.00000	15.00000	18.23077		1.8750	0.0	0.87237	-	-
	-12.00000	15.00000	18.23077		2.2500	0.0	1.3213	-	-
	-11.00000	15.00000	18.23077		2.7141	0.0	1.8344	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line to x Axis	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-10.00000	15.00000	18.23077	3.4393	0.0	2.4075	-	-
		-9.00000	15.00000	18.23077	4.1693	0.0	3.0291	-	-
		-8.00000	15.00000	18.23077	4.9152	0.0	3.6812	-	-
		-7.00000	15.00000	18.23077	5.6885	0.0	4.3385	-	-
		-6.00000	15.00000	18.23077	6.5004	0.0	4.9688	-	-
		-5.00000	15.00000	18.23077	7.3624	0.0	5.5330	-	-
		-4.00000	15.00000	18.23077	8.2856	0.0	5.9849	-	-
		-3.00000	15.00000	18.23077	9.2814	0.0	6.2716	-	-
		-2.00000	15.00000	18.23077	10.361	0.0	6.3329	-	-
		-1.00000	15.00000	18.23077	11.536	0.0	6.1019	-	-
		0.00000	15.00000	18.23077	12.818	0.0	5.5046	-	-
		1.00000	15.00000	18.23077			Point lies within an excavation.		
		2.00000	15.00000	18.23077			Point lies within an excavation.		
		3.00000	15.00000	18.23077			Point lies within an excavation.		
		4.00000	15.00000	18.23077			Point lies within an excavation.		
		5.00000	15.00000	18.23077			Point lies within an excavation.		
		6.00000	15.00000	18.23077			Point lies within an excavation.		
		7.00000	15.00000	18.23077			Point lies within an excavation.		
		8.00000	15.00000	18.23077			Point lies within an excavation.		
		9.00000	15.00000	18.23077			Point lies within an excavation.		
		10.00000	15.00000	18.23077			Point lies within an excavation.		
		11.00000	15.00000	18.23077			Point lies within an excavation.		
		12.00000	15.00000	18.23077			Point lies within an excavation.		
		13.00000	15.00000	18.23077			Point lies within an excavation.		
		14.00000	15.00000	18.23077			Point lies within an excavation.		
		15.00000	15.00000	18.23077			Point lies within an excavation.		
		16.00000	15.00000	18.23077			Point lies within an excavation.		
		17.00000	15.00000	18.23077			Point lies within an excavation.		
		18.00000	15.00000	18.23077			Point lies within an excavation.		
		19.00000	15.00000	18.23077			Point lies within an excavation.		
		20.00000	15.00000	18.23077	0.0		0.0	-	-
		21.00000	15.00000	18.23077			Point lies within an excavation.		
		22.00000	15.00000	18.23077			Point lies within an excavation.		
		23.00000	15.00000	18.23077			Point lies within an excavation.		
		24.00000	15.00000	18.23077			Point lies within an excavation.		
		25.00000	15.00000	18.23077			Point lies within an excavation.		
		26.00000	15.00000	18.23077			Point lies within an excavation.		
		27.00000	15.00000	18.23077			Point lies within an excavation.		
		28.00000	15.00000	18.23077			Point lies within an excavation.		
		29.00000	15.00000	18.23077			Point lies within an excavation.		
		30.00000	15.00000	18.23077			Point lies within an excavation.		
		31.00000	15.00000	18.23077			Point lies within an excavation.		
		32.00000	15.00000	18.23077			Point lies within an excavation.		
		33.00000	15.00000	18.23077			Point lies within an excavation.		
		34.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		35.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		36.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		37.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		38.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		39.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		40.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		41.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		42.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		43.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		44.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		45.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		46.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		47.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		48.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		49.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		50.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		51.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		52.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		53.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		54.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		55.00000	15.00000	18.23077	0.0	0.0	0.0	-	-
		-25.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		-24.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		-23.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		-22.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		-21.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		-20.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		-19.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		-18.00000	16.00000	18.22308	0.0	0.0	0.0038642	-	-
		-17.00000	16.00000	18.22308	0.37500	0.0	0.061035	-	-
		-16.00000	16.00000	18.22308	0.75000	0.0	0.099421	-	-
		-15.00000	16.00000	18.22308	1.12500	0.0	0.14956	-	-
		-14.00000	16.00000	18.22308	1.50000	0.0	0.48501	-	-
		-13.00000	16.00000	18.22308	1.87500	0.0	0.87237	-	-
		-12.00000	16.00000	18.22308	2.25000	0.0	1.3213	-	-
		-11.00000	16.00000	18.22308	2.7141	0.0	1.8344	-	-
		-10.00000	16.00000	18.22308	3.4393	0.0	2.4075	-	-
		-9.00000	16.00000	18.22308	4.1693	0.0	3.0291	-	-
		-8.00000	16.00000	18.22308	4.9152	0.0	3.6812	-	-
		-7.00000	16.00000	18.22308	5.6885	0.0	4.3385	-	-
		-6.00000	16.00000	18.22308	6.5004	0.0	4.9688	-	-
		-5.00000	16.00000	18.22308	7.3624	0.0	5.5330	-	-
		-4.00000	16.00000	18.22308	8.2856	0.0	5.9849	-	-
		-3.00000	16.00000	18.22308	9.2814	0.0	6.2716	-	-
		-2.00000	16.00000	18.22308	10.361	0.0	6.3329	-	-
		-1.00000	16.00000	18.22308	11.536	0.0	6.1019	-	-
		0.00000	16.00000	18.22308	12.818	0.0	5.5046	-	-
		1.00000	16.00000	18.22308			Point lies within an excavation.		
		2.00000	16.00000	18.22308			Point lies within an excavation.		
		3.00000	16.00000	18.22308			Point lies within an excavation.		
		4.00000	16.00000	18.22308			Point lies within an excavation.		
		5.00000	16.00000	18.22308			Point lies within an excavation.		
		6.00000	16.00000	18.22308			Point lies within an excavation.		
		7.00000	16.00000	18.22308			Point lies within an excavation.		
		8.00000	16.00000	18.22308			Point lies within an excavation.		
		9.00000	16.00000	18.22308			Point lies within an excavation.		
		10.00000	16.00000	18.22308			Point lies within an excavation.		
		11.00000	16.00000	18.22308			Point lies within an excavation.		
		12.00000	16.00000	18.22308			Point lies within an excavation.		
		13.00000	16.00000	18.22308			Point lies within an excavation.		
		14.00000	16.00000	18.22308			Point lies within an excavation.		
		15.00000	16.00000	18.22308			Point lies within an excavation.		
		16.00000	16.00000	18.22308			Point lies within an excavation.		
		17.00000	16.00000	18.22308			Point lies within an excavation.		
		18.00000	16.00000	18.22308			Point lies within an excavation.		
		19.00000	16.00000	18.22308			Point lies within an excavation.		
		20.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		21.00000	16.00000	18.22308			Point lies within an excavation.		
		22.00000	16.00000	18.22308			Point lies within an excavation.		
		23.00000	16.00000	18.22308			Point lies within an excavation.		
		24.00000	16.00000	18.22308			Point lies within an excavation.		
		25.00000	16.00000	18.22308			Point lies within an excavation.		
		26.00000	16.00000	18.22308			Point lies within an excavation.		
		27.00000	16.00000	18.22308			Point lies within an excavation.		
		28.00000	16.00000	18.22308			Point lies within an excavation.		
		29.00000	16.00000	18.22308			Point lies within an excavation.		
		30.00000	16.00000	18.22308			Point lies within an excavation.		
		31.00000	16.00000	18.22308			Point lies within an excavation.		
		32.00000	16.00000	18.22308			Point lies within an excavation.		
		33.00000	16.00000	18.22308			Point lies within an excavation.		
		34.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		35.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		36.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		37.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		38.00000	16.00000	18.22308	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		39.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		40.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		41.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		42.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		43.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		44.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		45.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		46.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		47.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		48.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		49.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		50.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		51.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		52.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		53.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		54.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		55.00000	16.00000	18.22308	0.0	0.0	0.0	-	-
		-25.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		-24.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		-23.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		-22.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		-21.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		-20.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		-19.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		-18.00000	17.00000	18.21538	0.0	0.0	0.0038642	-	-
		-17.00000	17.00000	18.21538	0.37500	0.0	0.061035	-	-
		-16.00000	17.00000	18.21538	0.75000	0.0	0.099421	-	-
		-15.00000	17.00000	18.21538	1.12500	0.0	0.14956	-	-
		-14.00000	17.00000	18.21538	1.50000	0.0	0.48501	-	-
		-13.00000	17.00000	18.21538	1.87500	0.0	0.87237	-	-
		-12.00000	17.00000	18.21538	2.25000	0.0	1.3213	-	-
		-11.00000	17.00000	18.21538	2.7141	0.0	1.8344	-	-
		-10.00000	17.00000	18.21538	3.4393	0.0	2.4075	-	-
		-9.00000	17.00000	18.21538	4.1693	0.0	3.0291	-	-
		-8.00000	17.00000	18.21538	4.9152	0.0	3.6812	-	-
		-7.00000	17.00000	18.21538	5.6885	0.0	4.3385	-	-
		-6.00000	17.00000	18.21538	6.5004	0.0	4.9688	-	-
		-5.00000	17.00000	18.21538	7.3624	0.0	5.5330	-	-
		-4.00000	17.00000	18.21538	8.2856	0.0	5.9849	-	-
		-3.00000	17.00000	18.21538	9.2814	0.0	6.2716	-	-
		-2.00000	17.00000	18.21538	10.361	0.0	6.3329	-	-
		-1.00000	17.00000	18.21538	11.536	0.0	6.1019	-	-
		0.00000	17.00000	18.21538	12.818	0.0	5.5046	-	-
		1.00000	17.00000	18.21538			Point lies within an excavation.		
		2.00000	17.00000	18.21538			Point lies within an excavation.		
		3.00000	17.00000	18.21538			Point lies within an excavation.		
		4.00000	17.00000	18.21538			Point lies within an excavation.		
		5.00000	17.00000	18.21538			Point lies within an excavation.		
		6.00000	17.00000	18.21538			Point lies within an excavation.		
		7.00000	17.00000	18.21538			Point lies within an excavation.		
		8.00000	17.00000	18.21538			Point lies within an excavation.		
		9.00000	17.00000	18.21538			Point lies within an excavation.		
		10.00000	17.00000	18.21538			Point lies within an excavation.		
		11.00000	17.00000	18.21538			Point lies within an excavation.		
		12.00000	17.00000	18.21538			Point lies within an excavation.		
		13.00000	17.00000	18.21538			Point lies within an excavation.		
		14.00000	17.00000	18.21538			Point lies within an excavation.		
		15.00000	17.00000	18.21538			Point lies within an excavation.		
		16.00000	17.00000	18.21538			Point lies within an excavation.		
		17.00000	17.00000	18.21538			Point lies within an excavation.		
		18.00000	17.00000	18.21538			Point lies within an excavation.		
		19.00000	17.00000	18.21538			Point lies within an excavation.		
		20.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		21.00000	17.00000	18.21538			Point lies within an excavation.		
		22.00000	17.00000	18.21538			Point lies within an excavation.		
		23.00000	17.00000	18.21538			Point lies within an excavation.		
		24.00000	17.00000	18.21538			Point lies within an excavation.		
		25.00000	17.00000	18.21538			Point lies within an excavation.		
		26.00000	17.00000	18.21538			Point lies within an excavation.		
		27.00000	17.00000	18.21538			Point lies within an excavation.		
		28.00000	17.00000	18.21538			Point lies within an excavation.		
		29.00000	17.00000	18.21538			Point lies within an excavation.		
		30.00000	17.00000	18.21538			Point lies within an excavation.		
		31.00000	17.00000	18.21538			Point lies within an excavation.		
		32.00000	17.00000	18.21538			Point lies within an excavation.		
		33.00000	17.00000	18.21538			Point lies within an excavation.		
		34.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		35.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		36.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		37.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		38.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		39.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		40.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		41.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		42.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		43.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		44.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		45.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		46.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		47.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		48.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		49.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		50.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		51.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		52.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		53.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		54.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		55.00000	17.00000	18.21538	0.0	0.0	0.0	-	-
		-25.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		-24.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		-23.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		-22.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		-21.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		-20.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		-19.00000	18.00000	18.20769	0.0	0.0	0.0038642	-	-
		-18.00000	18.00000	18.20769	0.37500	0.0	0.061035	-	-
		-17.00000	18.00000	18.20769	0.75000	0.0	0.099421	-	-
		-16.00000	18.00000	18.20769	1.12500	0.0	0.14956	-	-
		-15.00000	18.00000	18.20769	1.50000	0.0	0.48501	-	-
		-14.00000	18.00000	18.20769	1.87500	0.0	0.87237	-	-
		-13.00000	18.00000	18.20769	2.25000	0.0	1.3213	-	-
		-12.00000	18.00000	18.20769	2.7141	0.0	1.8344	-	-
		-11.00000	18.00000	18.20769	3.4393	0.0	2.4075	-	-
		-10.00000	18.00000	18.20769	4.1693	0.0	3.0291	-	-
		-9.00000	18.00000	18.20769	4.9152	0.0	3.6812	-	-
		-8.00000	18.00000	18.20769	5.6885	0.0	4.3385	-	-
		-7.00000	18.00000	18.20769	6.5004	0.0	4.9688	-	-
		-6.00000	18.00000	18.20769	7.3624	0.0	5.5330	-	-
		-5.00000	18.00000	18.20769	8.2856	0.0	5.9849	-	-
		-4.00000	18.00000	18.20769	9.2814	0.0	6.2716	-	-
		-3.00000	18.00000	18.20769	10.361	0.0	6.3329	-	-
		-2.00000	18.00000	18.20769	11.536	0.0	6.1019	-	-
		-1.00000	18.00000	18.20769	12.818	0.0	5.5046	-	-
		0.00000	18.00000	18.20769			Point lies within an excavation.		
		1.00000	18.00000	18.20769			Point lies within an excavation.		
		2.00000	18.00000	18.20769			Point lies within an excavation.		
		3.00000	18.00000	18.20769			Point lies within an excavation.		
		4.00000	18.00000	18.20769			Point lies within an excavation.		
		5.00000	18.00000	18.20769			Point lies within an excavation.		
		6.00000	18.00000	18.20769			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
		7.00000	18.00000	18.20769				Point lies within an excavation.	
		8.00000	18.00000	18.20769				Point lies within an excavation.	
		9.00000	18.00000	18.20769				Point lies within an excavation.	
		10.00000	18.00000	18.20769				Point lies within an excavation.	
		11.00000	18.00000	18.20769				Point lies within an excavation.	
		12.00000	18.00000	18.20769				Point lies within an excavation.	
		13.00000	18.00000	18.20769				Point lies within an excavation.	
		14.00000	18.00000	18.20769				Point lies within an excavation.	
		15.00000	18.00000	18.20769				Point lies within an excavation.	
		16.00000	18.00000	18.20769				Point lies within an excavation.	
		17.00000	18.00000	18.20769				Point lies within an excavation.	
		18.00000	18.00000	18.20769				Point lies within an excavation.	
		19.00000	18.00000	18.20769				Point lies within an excavation.	
		20.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		21.00000	18.00000	18.20769				Point lies within an excavation.	
		22.00000	18.00000	18.20769				Point lies within an excavation.	
		23.00000	18.00000	18.20769				Point lies within an excavation.	
		24.00000	18.00000	18.20769				Point lies within an excavation.	
		25.00000	18.00000	18.20769				Point lies within an excavation.	
		26.00000	18.00000	18.20769				Point lies within an excavation.	
		27.00000	18.00000	18.20769				Point lies within an excavation.	
		28.00000	18.00000	18.20769				Point lies within an excavation.	
		29.00000	18.00000	18.20769				Point lies within an excavation.	
		30.00000	18.00000	18.20769				Point lies within an excavation.	
		31.00000	18.00000	18.20769				Point lies within an excavation.	
		32.00000	18.00000	18.20769				Point lies within an excavation.	
		33.00000	18.00000	18.20769				Point lies within an excavation.	
		34.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		35.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		36.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		37.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		38.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		39.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		40.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		41.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		42.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		43.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		44.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		45.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		46.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		47.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		48.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		49.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		50.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		51.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		52.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		53.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		54.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		55.00000	18.00000	18.20769	0.0	0.0	0.0	-	-
		-25.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		-24.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		-23.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		-22.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		-21.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		-20.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		-19.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		-18.00000	19.00000	18.20000	0.0	0.0	0.0038642	-	-
		-17.00000	19.00000	18.20000	0.37500	0.0	0.061035	-	-
		-16.00000	19.00000	18.20000	0.75000	0.0	0.099421	-	-
		-15.00000	19.00000	18.20000	1.12500	0.0	0.14956	-	-
		-14.00000	19.00000	18.20000	1.50000	0.0	0.48501	-	-
		-13.00000	19.00000	18.20000	1.87500	0.0	0.87237	-	-
		-12.00000	19.00000	18.20000	2.25000	0.0	1.3213	-	-
		-11.00000	19.00000	18.20000	2.7141	0.0	1.8344	-	-
		-10.00000	19.00000	18.20000	3.4393	0.0	2.4075	-	-
		-9.00000	19.00000	18.20000	4.1693	0.0	3.0291	-	-
		-8.00000	19.00000	18.20000	4.9152	0.0	3.6812	-	-
		-7.00000	19.00000	18.20000	5.6885	0.0	4.3385	-	-
		-6.00000	19.00000	18.20000	6.5004	0.0	4.9688	-	-
		-5.00000	19.00000	18.20000	7.3624	0.0	5.5330	-	-
		-4.00000	19.00000	18.20000	8.2056	0.0	5.9949	-	-
		-3.00000	19.00000	18.20000	9.2814	0.0	6.2716	-	-
		-2.00000	19.00000	18.20000	10.361	0.0	6.3329	-	-
		-1.00000	19.00000	18.20000	11.536	0.0	6.1019	-	-
		0.00000	19.00000	18.20000	12.818	0.0	5.5046	-	-
		1.00000	19.00000	18.20000				Point lies within an excavation.	
		2.00000	19.00000	18.20000				Point lies within an excavation.	
		3.00000	19.00000	18.20000				Point lies within an excavation.	
		4.00000	19.00000	18.20000				Point lies within an excavation.	
		5.00000	19.00000	18.20000				Point lies within an excavation.	
		6.00000	19.00000	18.20000				Point lies within an excavation.	
		7.00000	19.00000	18.20000				Point lies within an excavation.	
		8.00000	19.00000	18.20000				Point lies within an excavation.	
		9.00000	19.00000	18.20000				Point lies within an excavation.	
		10.00000	19.00000	18.20000				Point lies within an excavation.	
		11.00000	19.00000	18.20000				Point lies within an excavation.	
		12.00000	19.00000	18.20000				Point lies within an excavation.	
		13.00000	19.00000	18.20000				Point lies within an excavation.	
		14.00000	19.00000	18.20000				Point lies within an excavation.	
		15.00000	19.00000	18.20000				Point lies within an excavation.	
		16.00000	19.00000	18.20000				Point lies within an excavation.	
		17.00000	19.00000	18.20000				Point lies within an excavation.	
		18.00000	19.00000	18.20000				Point lies within an excavation.	
		19.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		20.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		21.00000	19.00000	18.20000				Point lies within an excavation.	
		22.00000	19.00000	18.20000				Point lies within an excavation.	
		23.00000	19.00000	18.20000				Point lies within an excavation.	
		24.00000	19.00000	18.20000				Point lies within an excavation.	
		25.00000	19.00000	18.20000				Point lies within an excavation.	
		26.00000	19.00000	18.20000				Point lies within an excavation.	
		27.00000	19.00000	18.20000				Point lies within an excavation.	
		28.00000	19.00000	18.20000				Point lies within an excavation.	
		29.00000	19.00000	18.20000				Point lies within an excavation.	
		30.00000	19.00000	18.20000				Point lies within an excavation.	
		31.00000	19.00000	18.20000				Point lies within an excavation.	
		32.00000	19.00000	18.20000				Point lies within an excavation.	
		33.00000	19.00000	18.20000				Point lies within an excavation.	
		34.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		35.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		36.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		37.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		38.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		39.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		40.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		41.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		42.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		43.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		44.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		45.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		46.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		47.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		48.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		49.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		50.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		51.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		52.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		53.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		54.00000	19.00000	18.20000	0.0	0.0	0.0	-	-
		55.00000	19.00000	18.20000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line to x Axis	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-25.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		-24.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		-23.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		-22.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		-21.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		-20.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		-19.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		-18.00000	20.00000	18.19231	0.0	0.0	0.0038642	-	-
		-17.00000	20.00000	18.19231	0.37500	0.0	0.061035	-	-
		-16.00000	20.00000	18.19231	0.75000	0.0	0.099421	-	-
		-15.00000	20.00000	18.19231	1.1250	0.0	0.14956	-	-
		-14.00000	20.00000	18.19231	1.5000	0.0	0.48501	-	-
		-13.00000	20.00000	18.19231	1.8750	0.0	0.87237	-	-
		-12.00000	20.00000	18.19231	2.2500	0.0	1.3213	-	-
		-11.00000	20.00000	18.19231	2.7141	0.0	1.8344	-	-
		-10.00000	20.00000	18.19231	3.4393	0.0	2.4075	-	-
		-9.00000	20.00000	18.19231	4.1693	0.0	3.0291	-	-
		-8.00000	20.00000	18.19231	4.9152	0.0	3.6812	-	-
		-7.00000	20.00000	18.19231	5.6885	0.0	4.3385	-	-
		-6.00000	20.00000	18.19231	6.5004	0.0	4.9688	-	-
		-5.00000	20.00000	18.19231	7.3624	0.0	5.5330	-	-
		-4.00000	20.00000	18.19231	8.2856	0.0	5.9849	-	-
		-3.00000	20.00000	18.19231	9.2814	0.0	6.2716	-	-
		-2.00000	20.00000	18.19231	10.361	0.0	6.3329	-	-
		-1.00000	20.00000	18.19231	11.536	0.0	6.1019	-	-
		0.00000	20.00000	18.19231	12.818	0.0	5.5046	-	-
		1.00000	20.00000	18.19231			Point lies within an excavation.		
		2.00000	20.00000	18.19231			Point lies within an excavation.		
		3.00000	20.00000	18.19231			Point lies within an excavation.		
		4.00000	20.00000	18.19231			Point lies within an excavation.		
		5.00000	20.00000	18.19231			Point lies within an excavation.		
		6.00000	20.00000	18.19231			Point lies within an excavation.		
		7.00000	20.00000	18.19231			Point lies within an excavation.		
		8.00000	20.00000	18.19231			Point lies within an excavation.		
		9.00000	20.00000	18.19231			Point lies within an excavation.		
		10.00000	20.00000	18.19231			Point lies within an excavation.		
		11.00000	20.00000	18.19231			Point lies within an excavation.		
		12.00000	20.00000	18.19231			Point lies within an excavation.		
		13.00000	20.00000	18.19231			Point lies within an excavation.		
		14.00000	20.00000	18.19231			Point lies within an excavation.		
		15.00000	20.00000	18.19231			Point lies within an excavation.		
		16.00000	20.00000	18.19231			Point lies within an excavation.		
		17.00000	20.00000	18.19231			Point lies within an excavation.		
		18.00000	20.00000	18.19231			Point lies within an excavation.		
		19.00000	20.00000	18.19231			Point lies within an excavation.		
		20.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		21.00000	20.00000	18.19231			Point lies within an excavation.		
		22.00000	20.00000	18.19231			Point lies within an excavation.		
		23.00000	20.00000	18.19231			Point lies within an excavation.		
		24.00000	20.00000	18.19231			Point lies within an excavation.		
		25.00000	20.00000	18.19231			Point lies within an excavation.		
		26.00000	20.00000	18.19231			Point lies within an excavation.		
		27.00000	20.00000	18.19231			Point lies within an excavation.		
		28.00000	20.00000	18.19231			Point lies within an excavation.		
		29.00000	20.00000	18.19231			Point lies within an excavation.		
		30.00000	20.00000	18.19231			Point lies within an excavation.		
		31.00000	20.00000	18.19231			Point lies within an excavation.		
		32.00000	20.00000	18.19231			Point lies within an excavation.		
		33.00000	20.00000	18.19231			Point lies within an excavation.		
		34.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		35.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		36.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		37.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		38.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		39.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		40.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		41.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		42.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		43.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		44.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		45.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		46.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		47.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		48.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		49.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		50.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		51.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		52.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		53.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		54.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		55.00000	20.00000	18.19231	0.0	0.0	0.0	-	-
		-25.00000	21.00000	18.18462	0.0	0.0	0.0	-	-
		-24.00000	21.00000	18.18462	0.0	0.0	0.0	-	-
		-23.00000	21.00000	18.18462	0.0	0.0	0.0	-	-
		-22.00000	21.00000	18.18462	0.0	0.0	0.0	-	-
		-21.00000	21.00000	18.18462	0.0	0.0	0.0	-	-
		-20.00000	21.00000	18.18462	0.0	0.0	0.0	-	-
		-19.00000	21.00000	18.18462	0.0	0.0	0.0	-	-
		-18.00000	21.00000	18.18462	0.0	0.0	0.0038642	-	-
		-17.00000	21.00000	18.18462	0.37500	0.0	0.061035	-	-
		-16.00000	21.00000	18.18462	0.75000	0.0	0.099421	-	-
		-15.00000	21.00000	18.18462	1.1250	0.0	0.14956	-	-
		-14.00000	21.00000	18.18462	1.5000	0.0	0.48501	-	-
		-13.00000	21.00000	18.18462	1.8750	0.0	0.87237	-	-
		-12.00000	21.00000	18.18462	2.2500	0.0	1.3213	-	-
		-11.00000	21.00000	18.18462	2.7141	0.0	1.8344	-	-
		-10.00000	21.00000	18.18462	3.4393	0.0	2.4075	-	-
		-9.00000	21.00000	18.18462	4.1693	0.0	3.0291	-	-
		-8.00000	21.00000	18.18462	4.9152	0.0	3.6812	-	-
		-7.00000	21.00000	18.18462	5.6885	0.0	4.3385	-	-
		-6.00000	21.00000	18.18462	6.5004	0.0	4.9688	-	-
		-5.00000	21.00000	18.18462	7.3624	0.0	5.5330	-	-
		-4.00000	21.00000	18.18462	8.2856	0.0	5.9849	-	-
		-3.00000	21.00000	18.18462	9.2814	0.0	6.2716	-	-
		-2.00000	21.00000	18.18462	10.361	0.0	6.3329	-	-
		-1.00000	21.00000	18.18462	11.536	0.0	6.1019	-	-
		0.00000	21.00000	18.18462	12.818	0.0	5.5046	-	-
		1.00000	21.00000	18.18462			Point lies within an excavation.		
		2.00000	21.00000	18.18462			Point lies within an excavation.		
		3.00000	21.00000	18.18462			Point lies within an excavation.		
		4.00000	21.00000	18.18462			Point lies within an excavation.		
		5.00000	21.00000	18.18462			Point lies within an excavation.		
		6.00000	21.00000	18.18462			Point lies within an excavation.		
		7.00000	21.00000	18.18462			Point lies within an excavation.		
		8.00000	21.00000	18.18462			Point lies within an excavation.		
		9.00000	21.00000	18.18462			Point lies within an excavation.		
		10.00000	21.00000	18.18462			Point lies within an excavation.		
		11.00000	21.00000	18.18462			Point lies within an excavation.		
		12.00000	21.00000	18.18462			Point lies within an excavation.		
		13.00000	21.00000	18.18462			Point lies within an excavation.		
		14.00000	21.00000	18.18462			Point lies within an excavation.		
		15.00000	21.00000	18.18462			Point lies within an excavation.		
		16.00000	21.00000	18.18462			Point lies within an excavation.		
		17.00000	21.00000	18.18462			Point lies within an excavation.		
		18.00000	21.00000	18.18462			Point lies within an excavation.		
		19.00000	21.00000	18.18462			Point lies within an excavation.		
		20.00000	21.00000	18.18462	0.0	0.0	0.0	-	-
		21.00000	21.00000	18.18462			Point lies within an excavation.		
		22.00000	21.00000	18.18462			Point lies within an excavation.		
		23.00000	21.00000	18.18462			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
24.00000	21.00000	18.18462						Point lies within an excavation.	
25.00000	21.00000	18.18462						Point lies within an excavation.	
26.00000	21.00000	18.18462						Point lies within an excavation.	
27.00000	21.00000	18.18462						Point lies within an excavation.	
28.00000	21.00000	18.18462						Point lies within an excavation.	
29.00000	21.00000	18.18462						Point lies within an excavation.	
30.00000	21.00000	18.18462						Point lies within an excavation.	
31.00000	21.00000	18.18462						Point lies within an excavation.	
32.00000	21.00000	18.18462						Point lies within an excavation.	
33.00000	21.00000	18.18462						Point lies within an excavation.	
34.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
35.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
36.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
37.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
38.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
39.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
40.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
41.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
42.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
43.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
44.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
45.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
46.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
47.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
48.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
49.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
50.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
51.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
52.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
53.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
54.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
55.00000	21.00000	18.18462			0.0	0.0	0.0	-	-
-25.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
-24.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
-23.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
-22.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
-21.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
-20.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
-19.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
-18.00000	22.00000	18.17692			0.0	0.0	0.0038642	-	-
-17.00000	22.00000	18.17692			0.37500	0.0	0.061035	-	-
-16.00000	22.00000	18.17692			0.75000	0.0	0.099421	-	-
-15.00000	22.00000	18.17692			1.12500	0.0	0.14956	-	-
-14.00000	22.00000	18.17692			1.50000	0.0	0.48501	-	-
-13.00000	22.00000	18.17692			1.87500	0.0	0.87237	-	-
-12.00000	22.00000	18.17692			2.25000	0.0	1.3213	-	-
-11.00000	22.00000	18.17692			2.7141	0.0	1.8344	-	-
-10.00000	22.00000	18.17692			3.4393	0.0	2.4075	-	-
-9.00000	22.00000	18.17692			4.1693	0.0	3.0291	-	-
-8.00000	22.00000	18.17692			4.9152	0.0	3.6812	-	-
-7.00000	22.00000	18.17692			5.6885	0.0	4.3385	-	-
-6.00000	22.00000	18.17692			6.5004	0.0	4.9688	-	-
-5.00000	22.00000	18.17692			7.3624	0.0	5.5330	-	-
-4.00000	22.00000	18.17692			8.2856	0.0	5.9849	-	-
-3.00000	22.00000	18.17692			9.2814	0.0	6.2716	-	-
-2.00000	22.00000	18.17692			10.361	0.0	6.3229	-	-
-1.00000	22.00000	18.17692			11.536	0.0	6.1019	-	-
0.00000	22.00000	18.17692			12.818	0.0	5.5046	-	-
1.00000	22.00000	18.17692						Point lies within an excavation.	
2.00000	22.00000	18.17692						Point lies within an excavation.	
3.00000	22.00000	18.17692						Point lies within an excavation.	
4.00000	22.00000	18.17692						Point lies within an excavation.	
5.00000	22.00000	18.17692						Point lies within an excavation.	
6.00000	22.00000	18.17692						Point lies within an excavation.	
7.00000	22.00000	18.17692						Point lies within an excavation.	
8.00000	22.00000	18.17692						Point lies within an excavation.	
9.00000	22.00000	18.17692						Point lies within an excavation.	
10.00000	22.00000	18.17692						Point lies within an excavation.	
11.00000	22.00000	18.17692						Point lies within an excavation.	
12.00000	22.00000	18.17692						Point lies within an excavation.	
13.00000	22.00000	18.17692						Point lies within an excavation.	
14.00000	22.00000	18.17692						Point lies within an excavation.	
15.00000	22.00000	18.17692						Point lies within an excavation.	
16.00000	22.00000	18.17692						Point lies within an excavation.	
17.00000	22.00000	18.17692						Point lies within an excavation.	
18.00000	22.00000	18.17692						Point lies within an excavation.	
19.00000	22.00000	18.17692						Point lies within an excavation.	
20.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
21.00000	22.00000	18.17692						Point lies within an excavation.	
22.00000	22.00000	18.17692						Point lies within an excavation.	
23.00000	22.00000	18.17692						Point lies within an excavation.	
24.00000	22.00000	18.17692						Point lies within an excavation.	
25.00000	22.00000	18.17692						Point lies within an excavation.	
26.00000	22.00000	18.17692						Point lies within an excavation.	
27.00000	22.00000	18.17692						Point lies within an excavation.	
28.00000	22.00000	18.17692						Point lies within an excavation.	
29.00000	22.00000	18.17692						Point lies within an excavation.	
30.00000	22.00000	18.17692						Point lies within an excavation.	
31.00000	22.00000	18.17692						Point lies within an excavation.	
32.00000	22.00000	18.17692						Point lies within an excavation.	
33.00000	22.00000	18.17692						Point lies within an excavation.	
34.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
35.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
36.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
37.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
38.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
39.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
40.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
41.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
42.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
43.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
44.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
45.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
46.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
47.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
48.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
49.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
50.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
51.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
52.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
53.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
54.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
55.00000	22.00000	18.17692			0.0	0.0	0.0	-	-
-25.00000	23.00000	18.16923			0.0	0.0	0.0	-	-
-24.00000	23.00000	18.16923			0.0	0.0	0.0	-	-
-23.00000	23.00000	18.16923			0.0	0.0	0.0	-	-
-22.00000	23.00000	18.16923			0.0	0.0	0.0	-	-
-21.00000	23.00000	18.16923			0.0	0.0	0.0	-	-
-20.00000	23.00000	18.16923			0.0	0.0	0.0	-	-
-19.00000	23.00000	18.16923			0.0	0.0	0.0	-	-
-18.00000	23.00000	18.16923			0.0	0.0	0.0038642	-	-
-17.00000	23.00000	18.16923			0.37500	0.0	0.061035	-	-
-16.00000	23.00000	18.16923			0.75000	0.0	0.099421	-	-
-15.00000	23.00000	18.16923			1.12500	0.0	0.14956	-	-
-14.00000	23.00000	18.16923			1.50000	0.0	0.48501	-	-
-13.00000	23.00000	18.16923			1.87500	0.0	0.87237	-	-
-12.00000	23.00000	18.16923			2.25000	0.0	1.3213	-	-
-11.00000	23.00000	18.16923			2.7141	0.0	1.8344	-	-
-10.00000	23.00000	18.16923			3.4393	0.0	2.4075	-	-
-9.00000	23.00000	18.16923			4.1693	0.0	3.0291	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-8.00000	23.00000	18.16923	4.9152	0.0	3.6912	-	-
		-7.00000	23.00000	18.16923	5.6885	0.0	4.3385	-	-
		-6.00000	23.00000	18.16923	6.5004	0.0	4.9688	-	-
		-5.00000	23.00000	18.16923	7.3624	0.0	5.5330	-	-
		-4.00000	23.00000	18.16923	8.2856	0.0	5.9849	-	-
		-3.00000	23.00000	18.16923	9.2814	0.0	6.2716	-	-
		-2.00000	23.00000	18.16923	10.361	0.0	6.3329	-	-
		-1.00000	23.00000	18.16923	11.536	0.0	6.1019	-	-
		0.00000	23.00000	18.16923	12.818	0.0	5.5046	-	-
		1.00000	23.00000	18.16923				Point lies within an excavation.	
		2.00000	23.00000	18.16923				Point lies within an excavation.	
		3.00000	23.00000	18.16923				Point lies within an excavation.	
		4.00000	23.00000	18.16923				Point lies within an excavation.	
		5.00000	23.00000	18.16923				Point lies within an excavation.	
		6.00000	23.00000	18.16923				Point lies within an excavation.	
		7.00000	23.00000	18.16923				Point lies within an excavation.	
		8.00000	23.00000	18.16923				Point lies within an excavation.	
		9.00000	23.00000	18.16923				Point lies within an excavation.	
		10.00000	23.00000	18.16923				Point lies within an excavation.	
		11.00000	23.00000	18.16923				Point lies within an excavation.	
		12.00000	23.00000	18.16923				Point lies within an excavation.	
		13.00000	23.00000	18.16923				Point lies within an excavation.	
		14.00000	23.00000	18.16923				Point lies within an excavation.	
		15.00000	23.00000	18.16923				Point lies within an excavation.	
		16.00000	23.00000	18.16923				Point lies within an excavation.	
		17.00000	23.00000	18.16923				Point lies within an excavation.	
		18.00000	23.00000	18.16923				Point lies within an excavation.	
		19.00000	23.00000	18.16923				Point lies within an excavation.	
		20.00000	23.00000	18.16923	0.0	0.0	-	-	-
		21.00000	23.00000	18.16923				Point lies within an excavation.	
		22.00000	23.00000	18.16923				Point lies within an excavation.	
		23.00000	23.00000	18.16923				Point lies within an excavation.	
		24.00000	23.00000	18.16923				Point lies within an excavation.	
		25.00000	23.00000	18.16923				Point lies within an excavation.	
		26.00000	23.00000	18.16923				Point lies within an excavation.	
		27.00000	23.00000	18.16923				Point lies within an excavation.	
		28.00000	23.00000	18.16923				Point lies within an excavation.	
		29.00000	23.00000	18.16923				Point lies within an excavation.	
		30.00000	23.00000	18.16923				Point lies within an excavation.	
		31.00000	23.00000	18.16923				Point lies within an excavation.	
		32.00000	23.00000	18.16923				Point lies within an excavation.	
		33.00000	23.00000	18.16923				Point lies within an excavation.	
		34.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		35.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		36.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		37.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		38.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		39.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		40.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		41.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		42.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		43.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		44.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		45.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		46.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		47.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		48.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		49.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		50.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		51.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		52.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		53.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		54.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		55.00000	23.00000	18.16923	0.0	0.0	0.0	-	-
		-25.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		-24.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		-23.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		-22.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		-21.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		-20.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		-19.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		-18.00000	24.00000	18.16154	0.0	0.0038642	-	-	-
		-17.00000	24.00000	18.16154	0.37500	0.0	0.061035	-	-
		-16.00000	24.00000	18.16154	0.75000	0.0	0.099421	-	-
		-15.00000	24.00000	18.16154	1.1250	0.0	0.14956	-	-
		-14.00000	24.00000	18.16154	1.5000	0.0	0.48501	-	-
		-13.00000	24.00000	18.16154	1.8750	0.0	0.87237	-	-
		-12.00000	24.00000	18.16154	2.2500	0.0	1.3213	-	-
		-11.00000	24.00000	18.16154	2.7141	0.0	1.8344	-	-
		-10.00000	24.00000	18.16154	3.4393	0.0	2.4075	-	-
		-9.00000	24.00000	18.16154	4.1693	0.0	3.0291	-	-
		-8.00000	24.00000	18.16154	4.9152	0.0	3.6812	-	-
		-7.00000	24.00000	18.16154	5.6885	0.0	4.3385	-	-
		-6.00000	24.00000	18.16154	6.5004	0.0	4.9688	-	-
		-5.00000	24.00000	18.16154	7.3624	0.0	5.5330	-	-
		-4.00000	24.00000	18.16154	8.2856	0.0	5.9849	-	-
		-3.00000	24.00000	18.16154	9.2814	0.0	6.2716	-	-
		-2.00000	24.00000	18.16154	10.361	0.0	6.3329	-	-
		-1.00000	24.00000	18.16154	11.536	0.0	6.1019	-	-
		0.00000	24.00000	18.16154	12.818	0.0	5.5046	-	-
		1.00000	24.00000	18.16154				Point lies within an excavation.	
		2.00000	24.00000	18.16154				Point lies within an excavation.	
		3.00000	24.00000	18.16154				Point lies within an excavation.	
		4.00000	24.00000	18.16154				Point lies within an excavation.	
		5.00000	24.00000	18.16154				Point lies within an excavation.	
		6.00000	24.00000	18.16154				Point lies within an excavation.	
		7.00000	24.00000	18.16154				Point lies within an excavation.	
		8.00000	24.00000	18.16154				Point lies within an excavation.	
		9.00000	24.00000	18.16154				Point lies within an excavation.	
		10.00000	24.00000	18.16154				Point lies within an excavation.	
		11.00000	24.00000	18.16154				Point lies within an excavation.	
		12.00000	24.00000	18.16154				Point lies within an excavation.	
		13.00000	24.00000	18.16154				Point lies within an excavation.	
		14.00000	24.00000	18.16154				Point lies within an excavation.	
		15.00000	24.00000	18.16154				Point lies within an excavation.	
		16.00000	24.00000	18.16154				Point lies within an excavation.	
		17.00000	24.00000	18.16154				Point lies within an excavation.	
		18.00000	24.00000	18.16154				Point lies within an excavation.	
		19.00000	24.00000	18.16154				Point lies within an excavation.	
		20.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		21.00000	24.00000	18.16154				Point lies within an excavation.	
		22.00000	24.00000	18.16154				Point lies within an excavation.	
		23.00000	24.00000	18.16154				Point lies within an excavation.	
		24.00000	24.00000	18.16154				Point lies within an excavation.	
		25.00000	24.00000	18.16154				Point lies within an excavation.	
		26.00000	24.00000	18.16154				Point lies within an excavation.	
		27.00000	24.00000	18.16154				Point lies within an excavation.	
		28.00000	24.00000	18.16154				Point lies within an excavation.	
		29.00000	24.00000	18.16154				Point lies within an excavation.	
		30.00000	24.00000	18.16154				Point lies within an excavation.	
		31.00000	24.00000	18.16154				Point lies within an excavation.	
		32.00000	24.00000	18.16154				Point lies within an excavation.	
		33.00000	24.00000	18.16154				Point lies within an excavation.	
		34.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		35.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		36.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		37.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		38.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		39.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		40.00000	24.00000	18.16154	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		41.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		42.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		43.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		44.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		45.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		46.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		47.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		48.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		49.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		50.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		51.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		52.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		53.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		54.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		55.00000	24.00000	18.16154	0.0	0.0	0.0	-	-
		-25.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		-24.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		-23.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		-22.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		-21.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		-20.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		-19.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		-18.00000	25.00000	18.15385	0.0	0.0	0.0038642	-	-
		-17.00000	25.00000	18.15385	0.37500	0.0	0.061035	-	-
		-16.00000	25.00000	18.15385	0.75000	0.0	0.099421	-	-
		-15.00000	25.00000	18.15385	1.12500	0.0	0.14956	-	-
		-14.00000	25.00000	18.15385	1.50000	0.0	0.48501	-	-
		-13.00000	25.00000	18.15385	1.87500	0.0	0.87237	-	-
		-12.00000	25.00000	18.15385	2.25000	0.0	1.3213	-	-
		-11.00000	25.00000	18.15385	2.7141	0.0	1.8344	-	-
		-10.00000	25.00000	18.15385	3.4393	0.0	2.4075	-	-
		-9.00000	25.00000	18.15385	4.1693	0.0	3.0291	-	-
		-8.00000	25.00000	18.15385	4.9152	0.0	3.6812	-	-
		-7.00000	25.00000	18.15385	5.6885	0.0	4.3385	-	-
		-6.00000	25.00000	18.15385	6.5004	0.0	4.9688	-	-
		-5.00000	25.00000	18.15385	7.3624	0.0	5.5330	-	-
		-4.00000	25.00000	18.15385	8.2856	0.0	5.9849	-	-
		-3.00000	25.00000	18.15385	9.2814	0.0	6.2716	-	-
		-2.00000	25.00000	18.15385	10.361	0.0	6.3329	-	-
		-1.00000	25.00000	18.15385	11.536	0.0	6.1019	-	-
		0.00000	25.00000	18.15385	12.818	0.0	5.5046	-	-
		1.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		2.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		3.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		4.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		5.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		6.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		7.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		8.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		9.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		10.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		11.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		12.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		13.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		14.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		15.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		16.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		17.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		18.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		19.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		20.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		21.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		22.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		23.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		24.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		25.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		26.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		27.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		28.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		29.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		30.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		31.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		32.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		33.00000	25.00000	18.15385			Point lies within an excavation.	-	-
		34.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		35.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		36.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		37.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		38.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		39.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		40.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		41.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		42.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		43.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		44.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		45.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		46.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		47.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		48.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		49.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		50.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		51.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		52.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		53.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		54.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		55.00000	25.00000	18.15385	0.0	0.0	0.0	-	-
		-25.00000	26.00000	18.14615	0.0	0.0	0.0	-	-
		-24.00000	26.00000	18.14615	0.0	0.0	0.0	-	-
		-23.00000	26.00000	18.14615	0.0	0.0	0.0	-	-
		-22.00000	26.00000	18.14615	0.0	0.0	0.0	-	-
		-21.00000	26.00000	18.14615	0.0	0.0	0.0	-	-
		-20.00000	26.00000	18.14615	0.0	0.0	0.0	-	-
		-19.00000	26.00000	18.14615	0.0	0.0	0.0	-	-
		-18.00000	26.00000	18.14615	0.0	0.0	0.0025890	-	-
		-17.00000	26.00000	18.14615	0.25125	0.0	0.040894	-	-
		-16.00000	26.00000	18.14615	0.50250	0.0	0.066612	-	-
		-15.00000	26.00000	18.14615	0.75375	0.0	0.10020	-	-
		-14.00000	26.00000	18.14615	1.0050	0.0	0.32495	-	-
		-13.00000	26.00000	18.14615	1.2562	0.0	0.58449	-	-
		-12.00000	26.00000	18.14615	1.5075	0.0	0.88526	-	-
		-11.00000	26.00000	18.14615	1.8184	0.0	1.2291	-	-
		-10.00000	26.00000	18.14615	2.3044	0.0	1.6130	-	-
		-9.00000	26.00000	18.14615	2.7934	0.0	2.0295	-	-
		-8.00000	26.00000	18.14615	3.2932	0.0	2.4664	-	-
		-7.00000	26.00000	18.14615	3.8113	0.0	2.9068	-	-
		-6.00000	26.00000	18.14615	4.3553	0.0	3.3291	-	-
		-5.00000	26.00000	18.14615	4.9328	0.0	3.7071	-	-
		-4.00000	26.00000	18.14615	5.5513	0.0	4.0099	-	-
		-3.00000	26.00000	18.14615	6.2185	0.0	4.2020	-	-
		-2.00000	26.00000	18.14615	6.9419	0.0	4.2431	-	-
		-1.00000	26.00000	18.14615	7.7292	0.0	4.0883	-	-
		0.00000	26.00000	18.14615	4.2939	-3.0150	3.1854	-	-
		1.00000	26.00000	18.14615	0.0	-9.0000	4.0040	-	-
		2.00000	26.00000	18.14615	0.0	-9.0000	4.0040	-	-
		3.00000	26.00000	18.14615	0.0	-9.0000	4.0040	-	-
		4.00000	26.00000	18.14615	0.0	-9.0000	4.0040	-	-
		5.00000	26.00000	18.14615	0.0	-9.0000	4.0040	-	-
		6.00000	26.00000	18.14615	0.0	-9.0000	4.0040	-	-
		7.00000	26.00000	18.14615	0.0	-9.0000	4.0040	-	-
		8.00000	26.00000	18.14615	0.0	-9.0000	4.0040	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
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Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line		
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
	9.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	10.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	11.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	12.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	13.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	14.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	15.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	16.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	17.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	18.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	19.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	20.00000	26.00000	18.14615	0.0	-6.03000	2.6827	-	-	-	-
	21.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	22.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	23.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	24.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	25.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	26.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	27.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	28.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	29.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	30.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	31.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	32.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	33.00000	26.00000	18.14615	0.0	-9.00000	4.0040	-	-	-	-
	34.00000	26.00000	18.14615	0.0	-3.01500	1.3413	-	-	-	-
	35.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	36.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	37.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	38.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	39.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	40.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	41.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	42.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	43.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	44.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	45.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	46.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	47.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	48.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	49.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	50.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	51.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	52.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	53.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	54.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	55.00000	26.00000	18.14615	0.0	0.0	0.0	-	-	-	-
	-25.00000	27.00000	18.13846	0.0	0.0	0.0	-	-	-	-
	-24.00000	27.00000	18.13846	0.0	0.0	0.0	-	-	-	-
	-23.00000	27.00000	18.13846	0.0	0.0	0.0	-	-	-	-
	-22.00000	27.00000	18.13846	0.0	0.0	0.0	-	-	-	-
	-21.00000	27.00000	18.13846	0.0	0.0	0.0	-	-	-	-
	-20.00000	27.00000	18.13846	0.0	0.0	0.0	-	-	-	-
	-19.00000	27.00000	18.13846	0.0	0.0	0.0	-	-	-	-
	-18.00000	27.00000	18.13846	0.0	0.0	0.0	-	-	-	-
	-17.00000	27.00000	18.13846	0.23243	-0.0068074	0.039299	-	-	-	-
	-16.00000	27.00000	18.13846	0.47001	-0.014669	0.064458	-	-	-	-
	-15.00000	27.00000	18.13846	0.70578	-0.023573	0.096654	-	-	-	-
	-14.00000	27.00000	18.13846	0.93935	-0.033743	0.30363	-	-	-	-
	-13.00000	27.00000	18.13846	1.1702	-0.045468	0.54757	-	-	-	-
	-12.00000	27.00000	18.13846	1.3977	-0.059133	0.82890	-	-	-	-
	-11.00000	27.00000	18.13846	1.6664	-0.075261	1.1485	-	-	-	-
	-10.00000	27.00000	18.13846	2.0987	-0.094583	1.5024	-	-	-	-
	-9.00000	27.00000	18.13846	2.5218	-0.11815	1.8817	-	-	-	-
	-8.00000	27.00000	18.13846	2.9379	-0.14751	2.2723	-	-	-	-
	-7.00000	27.00000	18.13846	3.3463	-0.18511	2.6544	-	-	-	-
	-6.00000	27.00000	18.13846	3.7411	-0.24662	3.0042	-	-	-	-
	-5.00000	27.00000	18.13846	4.1060	-0.33856	3.2890	-	-	-	-
	-4.00000	27.00000	18.13846	4.4026	-0.47407	3.4703	-	-	-	-
	-3.00000	27.00000	18.13846	4.5384	-0.69234	3.4955	-	-	-	-
	-2.00000	27.00000	18.13846	4.2620	-1.0945	3.2759	-	-	-	-
	-1.00000	27.00000	18.13846	2.7593	-1.9996	2.6077	-	-	-	-
	0.00000	27.00000	18.13846	0.0	-5.5554	2.8171	-	-	-	-
	1.00000	27.00000	18.13846	0.0	-8.2917	4.2046	-	-	-	-
	2.00000	27.00000	18.13846	0.0	-8.2917	4.2046	-	-	-	-
	3.00000	27.00000	18.13846	0.0	-8.2985	4.2057	-	-	-	-
	4.00000	27.00000	18.13846	0.0	-8.3063	4.2065	-	-	-	-
	5.00000	27.00000	18.13846	0.0	-8.3152	4.2077	-	-	-	-
	6.00000	27.00000	18.13846	0.0	-8.3254	4.2098	-	-	-	-
	7.00000	27.00000	18.13846	0.0	-8.3371	4.2135	-	-	-	-
	8.00000	27.00000	18.13846	0.0	-8.3508	4.2194	-	-	-	-
	9.00000	27.00000	18.13846	0.0	-8.3669	4.2283	-	-	-	-
	10.00000	27.00000	18.13846	0.0	-8.3862	4.2407	-	-	-	-
	11.00000	27.00000	18.13846	0.0	-8.4098	4.2577	-	-	-	-
	12.00000	27.00000	18.13846	0.0	-8.4392	4.2800	-	-	-	-
	13.00000	27.00000	18.13846	0.0	-8.4768	4.3089	-	-	-	-
	14.00000	27.00000	18.13846	0.0	-8.5383	4.3477	-	-	-	-
	15.00000	27.00000	18.13846	0.0	-8.6302	4.3997	-	-	-	-
	16.00000	27.00000	18.13846	0.0	-8.7657	4.4748	-	-	-	-
	17.00000	27.00000	18.13846	0.0	-8.9840	4.5935	-	-	-	-
	18.00000	27.00000	18.13846	0.0	-9.3862	4.8037	-	-	-	-
	19.00000	27.00000	18.13846	0.0	-10.291	5.2528	-	-	-	-
	20.00000	27.00000	18.13846	0.0	-11.111	5.6341	-	-	-	-
	21.00000	27.00000	18.13846	0.0	-10.291	5.2528	-	-	-	-
	22.00000	27.00000	18.13846	0.0	-9.3862	4.8037	-	-	-	-
	23.00000	27.00000	18.13846	0.0	-8.9840	4.5935	-	-	-	-
	24.00000	27.00000	18.13846	0.0	-8.7657	4.4748	-	-	-	-
	25.00000	27.00000	18.13846	0.0	-8.6302	4.3997	-	-	-	-
	26.00000	27.00000	18.13846	0.0	-8.5383	4.3477	-	-	-	-
	27.00000	27.00000	18.13846	0.0	-8.4768	4.3089	-	-	-	-
	28.00000	27.00000	18.13846	0.0	-8.4392	4.2800	-	-	-	-
	29.00000	27.00000	18.13846	0.0	-8.4098	4.2577	-	-	-	-
	30.00000	27.00000	18.13846	0.0	-8.3862	4.2407	-	-	-	-
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Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-23.00000	28.00000	18.13077	0.0	0.0	0.0	-	-
		-22.00000	28.00000	18.13077	0.0	0.0	0.0	-	-
		-21.00000	28.00000	18.13077	0.0	0.0	0.0	-	-
		-20.00000	28.00000	18.13077	0.0	0.0	0.0	-	-
		-19.00000	28.00000	18.13077	0.0	0.0	0.0	-	-
		-18.00000	28.00000	18.13077	0.0	0.0	0.0	-	-
		-17.00000	28.00000	18.13077	0.20106	-0.012340	0.036077	-	-
		-16.00000	28.00000	18.13077	0.42445	-0.027839	0.060809	-	-
		-15.00000	28.00000	18.13077	0.64418	-0.045366	0.090623	-	-
		-14.00000	28.00000	18.13077	0.85951	-0.065343	0.268807	-	-
		-13.00000	28.00000	18.13077	1.0694	-0.088319	0.49305	-	-
		-12.00000	28.00000	18.13077	1.2727	-0.11502	0.75083	-	-
		-11.00000	28.00000	18.13077	1.4821	-0.14641	1.0417	-	-
		-10.00000	28.00000	18.13077	1.8602	-0.18383	1.3608	-	-
		-9.00000	28.00000	18.13077	2.2167	-0.22918	1.6985	-	-
		-8.00000	28.00000	18.13077	2.5492	-0.28522	2.0395	-	-
		-7.00000	28.00000	18.13077	2.8500	-0.35611	2.3630	-	-
		-6.00000	28.00000	18.13077	3.1032	-0.46293	2.6436	-	-
		-5.00000	28.00000	18.13077	3.2767	-0.62806	2.8478	-	-
		-4.00000	28.00000	18.13077	3.3095	-0.86074	2.9359	-	-
		-3.00000	28.00000	18.13077	3.0824	-1.2065	2.8593	-	-
		-2.00000	28.00000	18.13077	2.3651	-1.7491	2.5503	-	-
		-1.00000	28.00000	18.13077	1.4903	-3.1300	2.6494	-	-
		0.00000	28.00000	18.13077	0.0	-5.0808	2.7538	-	-
		1.00000	28.00000	18.13077	0.0	-7.5833	4.1102	-	-
		2.00000	28.00000	18.13077	0.0	-7.5833	4.1102	-	-
		3.00000	28.00000	18.13077	0.0	-7.5957	4.1122	-	-
		4.00000	28.00000	18.13077	0.0	-7.6112	4.1139	-	-
		5.00000	28.00000	18.13077	0.0	-7.6287	4.1161	-	-
		6.00000	28.00000	18.13077	0.0	-7.6487	4.1201	-	-
		7.00000	28.00000	18.13077	0.0	-7.6717	4.1270	-	-
		8.00000	28.00000	18.13077	0.0	-7.6983	4.1382	-	-
		9.00000	28.00000	18.13077	0.0	-7.7297	4.1549	-	-
		10.00000	28.00000	18.13077	0.0	-7.7672	4.1786	-	-
		11.00000	28.00000	18.13077	0.0	-7.8125	4.2107	-	-
		12.00000	28.00000	18.13077	0.0	-7.8686	4.2529	-	-
		13.00000	28.00000	18.13077	0.0	-7.9394	4.3073	-	-
		14.00000	28.00000	18.13077	0.0	-8.0463	4.3788	-	-
		15.00000	28.00000	18.13077	0.0	-8.2114	4.4731	-	-
		16.00000	28.00000	18.13077	0.0	-8.4441	4.6029	-	-
		17.00000	28.00000	18.13077	0.0	-8.7898	4.7931	-	-
		18.00000	28.00000	18.13077	0.0	-9.3325	5.0855	-	-
		19.00000	28.00000	18.13077	0.0	-10.713	5.8235	-	-
		20.00000	28.00000	18.13077	0.0	-10.162	5.5076	-	-
		21.00000	28.00000	18.13077	0.0	-10.713	5.8235	-	-
		22.00000	28.00000	18.13077	0.0	-9.3325	5.0855	-	-
		23.00000	28.00000	18.13077	0.0	-8.7898	4.7931	-	-
		24.00000	28.00000	18.13077	0.0	-8.4441	4.6029	-	-
		25.00000	28.00000	18.13077	0.0	-8.2114	4.4731	-	-
		26.00000	28.00000	18.13077	0.0	-8.0463	4.3788	-	-
		27.00000	28.00000	18.13077	0.0	-7.9394	4.3073	-	-
		28.00000	28.00000	18.13077	0.0	-7.8686	4.2529	-	-
		29.00000	28.00000	18.13077	0.0	-7.8125	4.2107	-	-
		30.00000	28.00000	18.13077	0.0	-7.7672	4.1786	-	-
		31.00000	28.00000	18.13077	0.0	-7.7297	4.1549	-	-
		32.00000	28.00000	18.13077	0.0	-7.6983	4.1382	-	-
		33.00000	28.00000	18.13077	0.0	-7.6717	4.1270	-	-
		34.00000	28.00000	18.13077	0.0	-5.1462	2.7637	-	-
		35.00000	28.00000	18.13077	0.0	-3.1754	1.7194	-	-
		36.00000	28.00000	18.13077	0.0	-1.7770	0.97908	-	-
		37.00000	28.00000	18.13077	0.0	-1.2185	0.65808	-	-
		38.00000	28.00000	18.13077	0.0	-0.86074	0.49273	-	-
		39.00000	28.00000	18.13077	0.0	-0.62806	0.36297	-	-
		40.00000	28.00000	18.13077	0.0	-0.46293	0.26865	-	-
		41.00000	28.00000	18.13077	0.0	-0.35611	0.19716	-	-
		42.00000	28.00000	18.13077	0.0	-0.28522	0.14275	-	-
		43.00000	28.00000	18.13077	0.0	-0.22918	0.10052	-	-
		44.00000	28.00000	18.13077	0.0	-0.18383	0.068435	-	-
		45.00000	28.00000	18.13077	0.0	-0.14641	0.044787	-	-
		46.00000	28.00000	18.13077	0.0	-0.11502	0.028067	-	-
		47.00000	28.00000	18.13077	0.0	-0.088319	0.016887	-	-
		48.00000	28.00000	18.13077	0.0	-0.065343	0.0099371	-	-
		49.00000	28.00000	18.13077	0.0	-0.045366	0.0059622	-	-
		50.00000	28.00000	18.13077	0.0	-0.027839	0.0037429	-	-
		51.00000	28.00000	18.13077	0.0	-0.012340	0.0020862	-	-
		52.00000	28.00000	18.13077	0.0	0.0	0.0	-	-
		53.00000	28.00000	18.13077	0.0	0.0	0.0	-	-
		54.00000	28.00000	18.13077	0.0	0.0	0.0	-	-
		55.00000	28.00000	18.13077	0.0	0.0	0.0	-	-
		-25.00000	29.00000	18.12308	0.0	0.0	0.0	-	-
		-24.00000	29.00000	18.12308	0.0	0.0	0.0	-	-
		-23.00000	29.00000	18.12308	0.0	0.0	0.0	-	-
		-22.00000	29.00000	18.12308	0.0	0.0	0.0	-	-
		-21.00000	29.00000	18.12308	0.0	0.0	0.0	-	-
		-20.00000	29.00000	18.12308	0.0	0.0	0.0	-	-
		-19.00000	29.00000	18.12308	0.0	0.0	0.0	-	-
		-18.00000	29.00000	18.12308	0.0	0.0	0.0	-	-
		-17.00000	29.00000	18.12308	0.15943	-0.015373	0.031130	-	-
		-16.00000	29.00000	18.12308	0.36847	-0.038080	0.055881	-	-
		-15.00000	29.00000	18.12308	0.57212	-0.063688	0.082741	-	-
		-14.00000	29.00000	18.12308	0.76927	-0.092781	0.22167	-	-
		-13.00000	29.00000	18.12308	0.95854	-0.12611	0.42547	-	-
		-12.00000	29.00000	18.12308	1.1381	-0.16465	0.65701	-	-
		-11.00000	29.00000	18.12308	1.3055	-0.20970	0.91621	-	-
		-10.00000	29.00000	18.12308	1.6042	-0.26300	1.1981	-	-
		-9.00000	29.00000	18.12308	1.8985	-0.32689	1.4926	-	-
		-8.00000	29.00000	18.12308	2.1549	-0.40495	1.7847	-	-
		-7.00000	29.00000	18.12308	2.3619	-0.50187	2.0535	-	-
		-6.00000	29.00000	18.12308	2.4990	-0.62699	2.2732	-	-
		-5.00000	29.00000	18.12308	2.5308	-0.83770	2.4174	-	-
		-4.00000	29.00000	18.12308	2.3993	-1.1180	2.4469	-	-
		-3.00000	29.00000	18.12308	2.0138	-1.4987	2.3277	-	-
		-2.00000	29.00000	18.12308	1.6226	-2.2920	2.4431	-	-
		-1.00000	29.00000	18.12308	0.93346	-3.3661	2.5299	-	-
		0.00000	29.00000	18.12308	0.0	-4.6662	2.5789	-	-
		1.00000	29.00000	18.12308	0.0	-6.8750	3.8491	-	-
		2.00000	29.00000	18.12308	0.0	-6.8750	3.8491	-	-
		3.00000	29.00000	18.12308	0.0	-6.8904	3.8518	-	-
		4.00000	29.00000	18.12308	0.0	-6.9131	3.8543	-	-
		5.00000	29.00000	18.12308	0.0	-6.9387	3.8574	-	-
		6.00000	29.00000	18.12308	0.0	-6.9678	3.8627	-	-
		7.00000	29.00000	18.12308	0.0	-7.0011	3.8721	-	-
		8.00000	29.00000	18.12308	0.0	-7.0397	3.8873	-	-
		9.00000	29.00000	18.12308	0.0	-7.0847	3.9102	-	-
		10.00000	29.00000	18.12308	0.0	-7.1380	3.9426	-	-
		11.00000	29.00000	18.12308	0.0	-7.2020	3.9866	-	-
		12.00000	29.00000	18.12308	0.0	-7.2800	4.0444	-	-
		13.00000	29.00000	18.12308	0.0	-7.3769	4.1183	-	-
		14.00000	29.00000	18.12308	0.0	-7.5020	4.2117	-	-
		15.00000	29.00000	18.12308	0.0	-7.7127	4.3348	-	-
		16.00000	29.00000	18.12308	0.0	-7.9930	4.4928	-	-
		17.00000	29.00000	18.12308	0.0	-8.3737	4.7047	-	-
		18.00000	29.00000	18.12308	0.0	-9.1670	5.1465	-	-
		19.00000	29.00000	18.12308	0.0	-10.241	5.7400	-	-
		20.00000	29.00000	18.12308	0.0	-9.2125	5.1578	-	-
		21.00000	29.00000	18.12308	0.0	-10.241	5.7400	-	-
		22.00000	29.00000	18.12308	0.0	-9.1670	5.1465	-	-
		23.00000	29.00000	18.12308	0.0	-8.3737	4.7047	-	-
		24.00000	29.00000	18.12308	0.0	-7.9930	4.4928	-	-
		25.00000	29.00000	18.12308	0.0	-7.7127	4.3348	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of		
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
26.00000	29.00000	18.12308	0.0	-7.5020	4.2117	-	-	-	-	-
27.00000	29.00000	18.12308	0.0	-7.3769	4.1183	-	-	-	-	-
28.00000	29.00000	18.12308	0.0	-7.2800	4.0444	-	-	-	-	-
29.00000	29.00000	18.12308	0.0	-7.2020	3.9866	-	-	-	-	-
30.00000	29.00000	18.12308	0.0	-7.1380	3.9426	-	-	-	-	-
31.00000	29.00000	18.12308	0.0	-7.0847	3.9102	-	-	-	-	-
32.00000	29.00000	18.12308	0.0	-7.0397	3.8873	-	-	-	-	-
33.00000	29.00000	18.12308	0.0	-7.0011	3.8721	-	-	-	-	-
34.00000	29.00000	18.12308	0.0	-4.6990	2.5925	-	-	-	-	-
35.00000	29.00000	18.12308	0.0	-3.4298	1.8993	-	-	-	-	-
36.00000	29.00000	18.12308	0.0	-2.3300	1.3027	-	-	-	-	-
37.00000	29.00000	18.12308	0.0	-1.5141	0.85838	-	-	-	-	-
38.00000	29.00000	18.12308	0.0	-1.1180	0.64371	-	-	-	-	-
39.00000	29.00000	18.12308	0.0	-0.83770	0.48575	-	-	-	-	-
40.00000	29.00000	18.12308	0.0	-0.62699	0.36259	-	-	-	-	-
41.00000	29.00000	18.12308	0.0	-0.50187	0.26919	-	-	-	-	-
42.00000	29.00000	18.12308	0.0	-0.40495	0.19529	-	-	-	-	-
43.00000	29.00000	18.12308	0.0	-0.32696	0.13756	-	-	-	-	-
44.00000	29.00000	18.12308	0.0	-0.26300	0.093553	-	-	-	-	-
45.00000	29.00000	18.12308	0.0	-0.20970	0.061114	-	-	-	-	-
46.00000	29.00000	18.12308	0.0	-0.16465	0.038236	-	-	-	-	-
47.00000	29.00000	18.12308	0.0	-0.12611	0.023019	-	-	-	-	-
48.00000	29.00000	18.12308	0.0	-0.092781	0.013632	-	-	-	-	-
49.00000	29.00000	18.12308	0.0	-0.063688	0.0082880	-	-	-	-	-
50.00000	29.00000	18.12308	0.0	-0.038080	0.0052341	-	-	-	-	-
51.00000	29.00000	18.12308	0.0	-0.015373	0.0027379	-	-	-	-	-
52.00000	29.00000	18.12308	0.0	0.0	0.0	-	-	-	-	-
53.00000	29.00000	18.12308	0.0	0.0	0.0	-	-	-	-	-
54.00000	29.00000	18.12308	0.0	0.0	0.0	-	-	-	-	-
55.00000	29.00000	18.12308	0.0	0.0	0.0	-	-	-	-	-
-25.00000	30.00000	18.11538	0.0	0.0	0.0	-	-	-	-	-
-24.00000	30.00000	18.11538	0.0	0.0	0.0	-	-	-	-	-
-23.00000	30.00000	18.11538	0.0	0.0	0.0	-	-	-	-	-
-22.00000	30.00000	18.11538	0.0	0.0	0.0	-	-	-	-	-
-21.00000	30.00000	18.11538	0.0	0.0	0.0	-	-	-	-	-
-20.00000	30.00000	18.11538	0.0	0.0	0.0	-	-	-	-	-
-19.00000	30.00000	18.11538	0.0	0.0	0.0	-	-	-	-	-
-18.00000	30.00000	18.11538	0.0	0.0	0.0	-	-	-	-	-
-17.00000	30.00000	18.11538	0.10978	-0.014778	0.024144	-	-	-	-	-
-16.00000	30.00000	18.11538	0.30472	-0.043722	0.049843	-	-	-	-	-
-15.00000	30.00000	18.11538	0.49266	-0.077016	0.073755	-	-	-	-	-
-14.00000	30.00000	18.11538	0.67227	-0.11427	0.16806	-	-	-	-	-
-13.00000	30.00000	18.11538	0.84184	-0.15672	0.34967	-	-	-	-	-
-12.00000	30.00000	18.11538	0.99916	-0.20551	0.55373	-	-	-	-	-
-11.00000	30.00000	18.11538	1.1414	-0.26208	0.78021	-	-	-	-	-
-10.00000	30.00000	18.11538	1.3440	-0.32837	1.0243	-	-	-	-	-
-9.00000	30.00000	18.11538	1.5841	-0.40692	1.2765	-	-	-	-	-
-8.00000	30.00000	18.11538	1.7770	-0.50118	1.5225	-	-	-	-	-
-7.00000	30.00000	18.11538	1.9101	-0.61583	1.7433	-	-	-	-	-
-6.00000	30.00000	18.11538	1.9636	-0.75725	1.9154	-	-	-	-	-
-5.00000	30.00000	18.11538	1.9069	-0.95886	2.0157	-	-	-	-	-
-4.00000	30.00000	18.11538	1.6975	-1.2483	2.0160	-	-	-	-	-
-3.00000	30.00000	18.11538	1.5081	-1.7788	2.1575	-	-	-	-	-
-2.00000	30.00000	18.11538	1.1573	-2.4616	2.2634	-	-	-	-	-
-1.00000	30.00000	18.11538	0.63695	-3.2768	2.3310	-	-	-	-	-
0.00000	30.00000	18.11538	0.0	-4.1317	2.3518	-	-	-	-	-
1.00000	30.00000	18.11538	0.0	-6.1667	3.5101	-	-	-	-	-
2.00000	30.00000	18.11538	0.0	-6.1667	3.5101	-	-	-	-	-
3.00000	30.00000	18.11538	0.0	-6.1814	3.5130	-	-	-	-	-
4.00000	30.00000	18.11538	0.0	-6.2108	3.5164	-	-	-	-	-
5.00000	30.00000	18.11538	0.0	-6.2437	3.5201	-	-	-	-	-
6.00000	30.00000	18.11538	0.0	-6.2809	3.5262	-	-	-	-	-
7.00000	30.00000	18.11538	0.0	-6.3234	3.5370	-	-	-	-	-
8.00000	30.00000	18.11538	0.0	-6.3722	3.5547	-	-	-	-	-
9.00000	30.00000	18.11538	0.0	-6.4287	3.5814	-	-	-	-	-
10.00000	30.00000	18.11538	0.0	-6.4950	3.6196	-	-	-	-	-
11.00000	30.00000	18.11538	0.0	-6.5736	3.6713	-	-	-	-	-
12.00000	30.00000	18.11538	0.0	-6.6678	3.7390	-	-	-	-	-
13.00000	30.00000	18.11538	0.0	-6.7825	3.8251	-	-	-	-	-
14.00000	30.00000	18.11538	0.0	-6.9239	3.9319	-	-	-	-	-
15.00000	30.00000	18.11538	0.0	-7.1255	4.0664	-	-	-	-	-
16.00000	30.00000	18.11538	0.0	-7.4149	4.2331	-	-	-	-	-
17.00000	30.00000	18.11538	0.0	-7.9454	4.5343	-	-	-	-	-
18.00000	30.00000	18.11538	0.0	-8.6282	4.9192	-	-	-	-	-
19.00000	30.00000	18.11538	0.0	-9.4435	5.3782	-	-	-	-	-
20.00000	30.00000	18.11538	0.0	-8.2633	4.7036	-	-	-	-	-
21.00000	30.00000	18.11538	0.0	-9.4435	5.3782	-	-	-	-	-
22.00000	30.00000	18.11538	0.0	-8.6282	4.9192	-	-	-	-	-
23.00000	30.00000	18.11538	0.0	-7.9454	4.5343	-	-	-	-	-
24.00000	30.00000	18.11538	0.0	-7.4149	4.2331	-	-	-	-	-
25.00000	30.00000	18.11538	0.0	-7.1255	4.0664	-	-	-	-	-
26.00000	30.00000	18.11538	0.0	-6.9239	3.9319	-	-	-	-	-
27.00000	30.00000	18.11538	0.0	-6.7825	3.8251	-	-	-	-	-
28.00000	30.00000	18.11538	0.0	-6.6678	3.7390	-	-	-	-	-
29.00000	30.00000	18.11538	0.0	-6.5736	3.6713	-	-	-	-	-
30.00000	30.00000	18.11538	0.0	-6.4950	3.6196	-	-	-	-	-
31.00000	30.00000	18.11538	0.0	-6.4287	3.5814	-	-	-	-	-
32.00000	30.00000	18.11538	0.0	-6.3722	3.5547	-	-	-	-	-
33.00000	30.00000	18.11538	0.0	-6.3234	3.5370	-	-	-	-	-
34.00000	30.00000	18.11538	0.0	-6.2459	3.2679	-	-	-	-	-
35.00000	30.00000	18.11538	0.0	-3.3538	1.8781	-	-	-	-	-
36.00000	30.00000	18.11538	0.0	-2.5056	0.9154	-	-	-	-	-
37.00000	30.00000	18.11538	0.0	-1.7935	1.0270	-	-	-	-	-
38.00000	30.00000	18.11538	0.0	-1.2483	0.72301	-	-	-	-	-
39.00000	30.00000	18.11538	0.0	-0.95886	0.55627	-	-	-	-	-
40.00000	30.00000	18.11538	0.0	-0.75725	0.42180	-	-	-	-	-
41.00000	30.00000	18.11538	0.0	-0.61583	0.312	-	-	-	-	-
42.00000	30.00000	18.11538	0.0	-0.50118	0.22889	-	-	-	-	-
43.00000	30.00000	18.11538	0.0	-0.40692	0.16120	-	-	-	-	-
44.00000	30.00000	18.11538	0.0	-0.32837	0.10944	-	-	-	-	-
45.00000	30.00000	18.11538	0.0	-0.26208	0.071314	-	-	-	-	-
46.00000	30.00000	18.11538	0.0	-0.20551	0.044539	-	-	-	-	-
47.00000	30.00000	18.11538	0.0	-0.15672	0.026874	-	-	-	-	-
48.00000	30.00000	18.11538	0.0	-0.11427	0.016091	-	-	-	-	-
49.00000	30.00000	18.11538	0.0	-0.077016	0.009711	-	-	-	-	-
50.00000	30.00000	18.11538	0.0	-0.044085	0.0062996	-	-	-	-	-
51.00000	30.00000	18.11538	0.0	-0.014778	0.0028646	-	-	-	-	-
52.00000	30.00000	18.11538	0.0	0.0	0.0	-	-	-	-	-
53.00000	30.00000	18.11538	0.0	0.0	0.0	-	-	-	-	-
54.00000	30.00000	18.11538	0.0	0.0	0.0	-	-	-	-	-
55.00000	30.00000	18.11538	0.0	0.0	0.0	-	-	-	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line		
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		-6.00000	31.00000	18.10769	1.5102	-0.84502	1.5804	-	-	-
		-5.00000	31.00000	18.10769	1.4081	-1.0246	1.6506	-	-	-
		-4.00000	31.00000	18.10769	1.3247	-1.3803	1.8146	-	-	-
		-3.00000	31.00000	18.10769	1.1426	-1.8554	1.9480	-	-	-
		-2.00000	31.00000	18.10769	0.85071	-2.4191	2.0432	-	-	-
		-1.00000	31.00000	18.10769	0.45708	-3.0413	2.0972	-	-	-
		0.00000	31.00000	18.10769	0.0	-3.6571	2.1056	-	-	-
		1.00000	31.00000	18.10769	0.0	-5.4583	3.1426	-	-	-
		2.00000	31.00000	18.10769	0.0	-5.4583	3.1426	-	-	-
		3.00000	31.00000	18.10769	0.0	-5.4679	3.1448	-	-	-
		4.00000	31.00000	18.10769	0.0	-5.5031	3.1494	-	-	-
		5.00000	31.00000	18.10769	0.0	-5.5424	3.1536	-	-	-
		6.00000	31.00000	18.10769	0.0	-5.5867	3.1599	-	-	-
		7.00000	31.00000	18.10769	0.0	-5.6368	3.1710	-	-	-
		8.00000	31.00000	18.10769	0.0	-5.6940	3.1894	-	-	-
		9.00000	31.00000	18.10769	0.0	-5.7597	3.2176	-	-	-
		10.00000	31.00000	18.10769	0.0	-5.8358	3.2581	-	-	-
		11.00000	31.00000	18.10769	0.0	-5.9247	3.3131	-	-	-
		12.00000	31.00000	18.10769	0.0	-6.0295	3.3850	-	-	-
		13.00000	31.00000	18.10769	0.0	-6.1541	3.4756	-	-	-
		14.00000	31.00000	18.10769	0.0	-6.3034	3.5869	-	-	-
		15.00000	31.00000	18.10769	0.0	-6.4829	3.7201	-	-	-
		16.00000	31.00000	18.10769	0.0	-6.8386	3.9434	-	-	-
		17.00000	31.00000	18.10769	0.0	-7.3137	4.2185	-	-	-
		18.00000	31.00000	18.10769	0.0	-7.8775	4.5407	-	-	-
		19.00000	31.00000	18.10769	0.0	-8.4996	4.8954	-	-	-
		20.00000	31.00000	18.10769	0.0	-7.3142	4.2111	-	-	-
		21.00000	31.00000	18.10769	0.0	-8.4996	4.8954	-	-	-
		22.00000	31.00000	18.10769	0.0	-7.8775	4.5407	-	-	-
		23.00000	31.00000	18.10769	0.0	-7.3137	4.2185	-	-	-
		24.00000	31.00000	18.10769	0.0	-6.8386	3.9434	-	-	-
		25.00000	31.00000	18.10769	0.0	-6.4829	3.7201	-	-	-
		26.00000	31.00000	18.10769	0.0	-6.3034	3.5869	-	-	-
		27.00000	31.00000	18.10769	0.0	-6.1541	3.4756	-	-	-
		28.00000	31.00000	18.10769	0.0	-6.0295	3.3850	-	-	-
		29.00000	31.00000	18.10769	0.0	-5.9247	3.3131	-	-	-
		30.00000	31.00000	18.10769	0.0	-5.8358	3.2581	-	-	-
		31.00000	31.00000	18.10769	0.0	-5.7597	3.2176	-	-	-
		32.00000	31.00000	18.10769	0.0	-5.6940	3.1894	-	-	-
		33.00000	31.00000	18.10769	0.0	-5.6368	3.1710	-	-	-
		34.00000	31.00000	18.10769	0.0	-3.7854	2.1229	-	-	-
		35.00000	31.00000	18.10769	0.0	-3.1254	1.7638	-	-	-
		36.00000	31.00000	18.10769	0.0	-2.4639	1.4049	-	-	-
		37.00000	31.00000	18.10769	0.0	-1.8650	1.0780	-	-	-
		38.00000	31.00000	18.10769	0.0	-1.3803	0.8075	-	-	-
		39.00000	31.00000	18.10769	0.0	-1.0246	0.57751	-	-	-
		40.00000	31.00000	18.10769	0.0	-0.84502	0.44427	-	-	-
		41.00000	31.00000	18.10769	0.0	-0.69577	0.33300	-	-	-
		42.00000	31.00000	18.10769	0.0	-0.57116	0.24233	-	-	-
		43.00000	31.00000	18.10769	0.0	-0.46635	0.17049	-	-	-
		44.00000	31.00000	18.10769	0.0	-0.37743	0.11546	-	-	-
		45.00000	31.00000	18.10769	0.0	-0.30132	0.075005	-	-	-
		46.00000	31.00000	18.10769	0.0	-0.23562	0.046795	-	-	-
		47.00000	31.00000	18.10769	0.0	-0.17845	0.028396	-	-	-
		48.00000	31.00000	18.10769	0.0	-0.12832	0.017308	-	-	-
		49.00000	31.00000	18.10769	0.0	-0.084056	0.010976	-	-	-
		50.00000	31.00000	18.10769	0.0	-0.044721	0.0068043	-	-	-
		51.00000	31.00000	18.10769	0.0	-0.0095590	0.0021672	-	-	-
		52.00000	31.00000	18.10769	0.0	0.0	0.0	-	-	-
		53.00000	31.00000	18.10769	0.0	0.0	0.0	-	-	-
		54.00000	31.00000	18.10769	0.0	0.0	0.0	-	-	-
		55.00000	31.00000	18.10769	0.0	0.0	0.0	-	-	-
		-25.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		-24.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		-23.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		-22.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		-21.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		-20.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		-19.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		-18.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		-17.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		-16.00000	32.00000	18.10000	0.16352	-0.039056	0.033915	-	-	-
		-15.00000	32.00000	18.10000	0.32269	-0.083777	0.054869	-	-	-
		-14.00000	32.00000	18.10000	0.47079	-0.13380	0.078941	-	-	-
		-13.00000	32.00000	18.10000	0.60585	-0.19006	0.19177	-	-	-
		-12.00000	32.00000	18.10000	0.72546	-0.25367	0.34259	-	-	-
		-11.00000	32.00000	18.10000	0.82660	-0.32604	0.50613	-	-	-
		-10.00000	32.00000	18.10000	0.90557	-0.40886	0.67916	-	-	-
		-9.00000	32.00000	18.10000	1.0124	-0.50418	0.85456	-	-	-
		-8.00000	32.00000	18.10000	1.1208	-0.61450	1.0216	-	-	-
		-7.00000	32.00000	18.10000	1.1666	-0.74270	1.1667	-	-	-
		-6.00000	32.00000	18.10000	1.1376	-0.89200	1.2740	-	-	-
		-5.00000	32.00000	18.10000	1.1189	-1.1405	1.4414	-	-	-
		-4.00000	32.00000	18.10000	1.0336	-1.4385	1.5875	-	-	-
		-3.00000	32.00000	18.10000	0.87383	-1.7931	1.7050	-	-	-
		-2.00000	32.00000	18.10000	0.63826	-2.2507	1.7946	-	-	-
		-1.00000	32.00000	18.10000	0.33809	-2.7289	1.8424	-	-	-
		0.00000	32.00000	18.10000	0.0	-3.1825	1.8468	-	-	-
		1.00000	32.00000	18.10000	0.0	-4.7500	2.7564	-	-	-
		2.00000	32.00000	18.10000	0.0	-4.7500	2.7564	-	-	-
		3.00000	32.00000	18.10000	0.0	-4.7500	2.7564	-	-	-
		4.00000	32.00000	18.10000	0.0	-4.7891	2.7629	-	-	-
		5.00000	32.00000	18.10000	0.0	-4.8338	2.7677	-	-	-
		6.00000	32.00000	18.10000	0.0	-4.8838	2.7738	-	-	-
		7.00000	32.00000	18.10000	0.0	-4.9401	2.7843	-	-	-
		8.00000	32.00000	18.10000	0.0	-5.0037	2.8018	-	-	-
		9.00000	32.00000	18.10000	0.0	-5.0760	2.8292	-	-	-
		10.00000	32.00000	18.10000	0.0	-5.1589	2.8687	-	-	-
		11.00000	32.00000	18.10000	0.0	-5.2542	2.9228	-	-	-
		12.00000	32.00000	18.10000	0.0	-5.3645	2.9935	-	-	-
		13.00000	32.00000	18.10000	0.0	-5.4927	3.0821	-	-	-
		14.00000	32.00000	18.10000	0.0	-5.6420	3.1898	-	-	-
		15.00000	32.00000	18.100						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line		
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		43.00000	32.00000	18.10000	0.0	-0.50418	0.16647	-	-	-
		44.00000	32.00000	18.10000	0.0	-0.40886	0.11235	-	-	-
		45.00000	32.00000	18.10000	0.0	-0.32604	0.072779	-	-	-
		46.00000	32.00000	18.10000	0.0	-0.25367	0.045469	-	-	-
		47.00000	32.00000	18.10000	0.0	-0.19006	0.027923	-	-	-
		48.00000	32.00000	18.10000	0.0	-0.13380	0.017470	-	-	-
		49.00000	32.00000	18.10000	0.0	-0.083777	0.011309	-	-	-
		50.00000	32.00000	18.10000	0.0	-0.039056	0.0065385	-	-	-
		51.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		52.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		53.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		54.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		55.00000	32.00000	18.10000	0.0	0.0	0.0	-	-	-
		-25.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		-24.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		-23.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		-22.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		-21.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		-20.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		-19.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		-18.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		-17.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		-16.00000	33.00000	18.09231	0.090299	-0.026374	0.022616	-	-	-
		-15.00000	33.00000	18.09231	0.23687	-0.075418	0.045197	-	-	-
		-14.00000	33.00000	18.09231	0.37155	-0.12992	0.065034	-	-	-
		-13.00000	33.00000	18.09231	0.49239	-0.19075	0.11719	-	-	-
		-12.00000	33.00000	18.09231	0.59704	-0.25892	0.24462	-	-	-
		-11.00000	33.00000	18.09231	0.68272	-0.33564	0.38027	-	-	-
		-10.00000	33.00000	18.09231	0.74607	-0.42234	0.52213	-	-	-
		-9.00000	33.00000	18.09231	0.78313	-0.52064	0.66468	-	-	-
		-8.00000	33.00000	18.09231	0.85180	-0.63236	0.79934	-	-	-
		-7.00000	33.00000	18.09231	0.87807	-0.75942	0.91521	-	-	-
		-6.00000	33.00000	18.09231	0.90406	-0.95835	1.0721	-	-	-
		-5.00000	33.00000	18.09231	0.88121	-1.1923	1.2194	-	-	-
		-4.00000	33.00000	18.09231	0.80445	-1.4623	1.3493	-	-	-
		-3.00000	33.00000	18.09231	0.67128	-1.7659	1.4543	-	-	-
		-2.00000	33.00000	18.09231	0.48443	-2.0951	1.5281	-	-	-
		-1.00000	33.00000	18.09231	0.25440	-2.4349	1.5663	-	-	-
		0.00000	33.00000	18.09231	0.0	-2.7637	1.5668	-	-	-
		1.00000	33.00000	18.09231	0.0	-4.1250	2.3385	-	-	-
		2.00000	33.00000	18.09231	0.0	-4.1250	2.3385	-	-	-
		3.00000	33.00000	18.09231	0.0	-4.1250	2.3385	-	-	-
		4.00000	33.00000	18.09231	0.0	-4.1514	2.3436	-	-	-
		5.00000	33.00000	18.09231	0.0	-4.2004	2.3494	-	-	-
		6.00000	33.00000	18.09231	0.0	-4.2549	2.3553	-	-	-
		7.00000	33.00000	18.09231	0.0	-4.3157	2.3646	-	-	-
		8.00000	33.00000	18.09231	0.0	-4.3839	2.3800	-	-	-
		9.00000	33.00000	18.09231	0.0	-4.4606	2.4045	-	-	-
		10.00000	33.00000	18.09231	0.0	-4.5473	2.4405	-	-	-
		11.00000	33.00000	18.09231	0.0	-4.6456	2.4902	-	-	-
		12.00000	33.00000	18.09231	0.0	-4.7574	2.5553	-	-	-
		13.00000	33.00000	18.09231	0.0	-4.8844	2.6367	-	-	-
		14.00000	33.00000	18.09231	0.0	-5.0833	2.7588	-	-	-
		15.00000	33.00000	18.09231	0.0	-5.3173	2.9091	-	-	-
		16.00000	33.00000	18.09231	0.0	-5.5873	3.0863	-	-	-
		17.00000	33.00000	18.09231	0.0	-5.8909	3.2857	-	-	-
		18.00000	33.00000	18.09231	0.0	-6.2201	3.4984	-	-	-
		19.00000	33.00000	18.09231	0.0	-6.5599	3.7109	-	-	-
		20.00000	33.00000	18.09231	0.0	-5.5275	3.1336	-	-	-
		21.00000	33.00000	18.09231	0.0	-6.5599	3.7109	-	-	-
		22.00000	33.00000	18.09231	0.0	-6.2201	3.4984	-	-	-
		23.00000	33.00000	18.09231	0.0	-5.8909	3.2857	-	-	-
		24.00000	33.00000	18.09231	0.0	-5.5873	3.0863	-	-	-
		25.00000	33.00000	18.09231	0.0	-5.3173	2.9091	-	-	-
		26.00000	33.00000	18.09231	0.0	-5.0833	2.7588	-	-	-
		27.00000	33.00000	18.09231	0.0	-4.8844	2.6367	-	-	-
		28.00000	33.00000	18.09231	0.0	-4.7574	2.5553	-	-	-
		29.00000	33.00000	18.09231	0.0	-4.6456	2.4902	-	-	-
		30.00000	33.00000	18.09231	0.0	-4.5473	2.4405	-	-	-
		31.00000	33.00000	18.09231	0.0	-4.4606	2.4045	-	-	-
		32.00000	33.00000	18.09231	0.0	-4.3839	2.3800	-	-	-
		33.00000	33.00000	18.09231	0.0	-4.3157	2.3646	-	-	-
		34.00000	33.00000	18.09231	0.0	-2.8937	1.5836	-	-	-
		35.00000	33.00000	18.09231	0.0	-2.5103	1.3833	-	-	-
		36.00000	33.00000	18.09231	0.0	-2.1215	1.1651	-	-	-
		37.00000	33.00000	18.09231	0.0	-1.7659	0.94718	-	-	-
		38.00000	33.00000	18.09231	0.0	-1.4623	0.74778	-	-	-
		39.00000	33.00000	18.09231	0.0	-1.1923	0.57062	-	-	-
		40.00000	33.00000	18.09231	0.0	-0.95835	0.42034	-	-	-
		41.00000	33.00000	18.09231	0.0	-0.75942	0.29822	-	-	-
		42.00000	33.00000	18.09231	0.0	-0.63236	0.21677	-	-	-
		43.00000	33.00000	18.09231	0.0	-0.52064	0.15173	-	-	-
		44.00000	33.00000	18.09231	0.0	-0.42234	0.10205	-	-	-
		45.00000	33.00000	18.09231	0.0	-0.33564	0.066025	-	-	-
		46.00000	33.00000	18.09231	0.0	-0.25892	0.041529	-	-	-
		47.00000	33.00000	18.09231	0.0	-0.19075	0.026060	-	-	-
		48.00000	33.00000	18.09231	0.0	-0.12992	0.016849	-	-	-
		49.00000	33.00000	18.09231	0.0	-0.075418	0.010915	-	-	-
		50.00000	33.00000	18.09231	0.0	-0.026374	0.0051123	-	-	-
		51.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		52.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		53.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		54.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		55.00000	33.00000	18.09231	0.0	0.0	0.0	-	-	-
		-25.00000	34.00000	18.08462	0.0	0.0	0.0	-	-	-
		-24.00000	34.00000	18.08462	0.0	0.0	0.0	-	-	-
		-23.00000	34.00000	18.08462	0.0	0.0	0.0	-	-	-
		-22.00000	34.00000	18.08462	0.0	0.0	0.0	-	-	-
		-21.00000	34.00000	18.08462	0.0	0.0	0.0	-	-	-
		-20.00000	34.00000	18.08462	0.0	0.0	0.0	-	-	-
		-19.00000	34.00000	18.08462	0.0	0.0	0.0	-	-	-
		-18.00000	34.00000	18.08462	0.0	0.0	0.0	-	-	-
		-17.00000	34.00000	18.08462	0.0	0.0	0.0	-	-	-
		-16.00000	34.00000	18.08462	0.017640					



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		11.00000	34.00000	18.08462	0.0	-4.2668	2.0611	-	-
		12.00000	34.00000	18.08462	0.0	-4.3768	2.1175	-	-
		13.00000	34.00000	18.08462	0.0	-4.5393	2.2018	-	-
		14.00000	34.00000	18.08462	0.0	-4.7276	2.3084	-	-
		15.00000	34.00000	18.08462	0.0	-4.9427	2.4372	-	-
		16.00000	34.00000	18.08462	0.0	-5.1833	2.5858	-	-
		17.00000	34.00000	18.08462	0.0	-5.4455	2.7489	-	-
		18.00000	34.00000	18.08462	0.0	-5.7215	2.9179	-	-
		19.00000	34.00000	18.08462	0.0	-5.9990	3.0813	-	-
		20.00000	34.00000	18.08462	0.0	-5.0250	2.5878	-	-
		21.00000	34.00000	18.08462	0.0	-5.9990	3.0813	-	-
		22.00000	34.00000	18.08462	0.0	-5.7215	2.9179	-	-
		23.00000	34.00000	18.08462	0.0	-5.4455	2.7489	-	-
		24.00000	34.00000	18.08462	0.0	-5.1833	2.5858	-	-
		25.00000	34.00000	18.08462	0.0	-4.9427	2.4372	-	-
		26.00000	34.00000	18.08462	0.0	-4.7276	2.3084	-	-
		27.00000	34.00000	18.08462	0.0	-4.5393	2.2018	-	-
		28.00000	34.00000	18.08462	0.0	-4.3768	2.1175	-	-
		29.00000	34.00000	18.08462	0.0	-4.2668	2.0611	-	-
		30.00000	34.00000	18.08462	0.0	-4.1683	2.0184	-	-
		31.00000	34.00000	18.08462	0.0	-4.0801	1.9878	-	-
		32.00000	34.00000	18.08462	0.0	-4.0011	1.9674	-	-
		33.00000	34.00000	18.08462	0.0	-3.9301	1.9547	-	-
		34.00000	34.00000	18.08462	0.0	-2.6287	1.3095	-	-
		35.00000	34.00000	18.08462	0.0	-2.3075	1.1596	-	-
		36.00000	34.00000	18.08462	0.0	-1.9776	0.9852	-	-
		37.00000	34.00000	18.08462	0.0	-1.6955	0.8176	-	-
		38.00000	34.00000	18.08462	0.0	-1.4333	0.6545	-	-
		39.00000	34.00000	18.08462	0.0	-1.1927	0.5060	-	-
		40.00000	34.00000	18.08462	0.0	-0.9776	0.3771	-	-
		41.00000	34.00000	18.08462	0.0	-0.7893	0.2705	-	-
		42.00000	34.00000	18.08462	0.0	-0.6268	0.1862	-	-
		43.00000	34.00000	18.08462	0.0	-0.5168	0.1299	-	-
		44.00000	34.00000	18.08462	0.0	-0.4183	0.0871	-	-
		45.00000	34.00000	18.08462	0.0	-0.3301	0.0566	-	-
		46.00000	34.00000	18.08462	0.0	-0.2512	0.0361	-	-
		47.00000	34.00000	18.08462	0.0	-0.1801	0.0234	-	-
		48.00000	34.00000	18.08462	0.0	-0.1162	0.0156	-	-
		49.00000	34.00000	18.08462	0.0	-0.0584	0.0095	-	-
		50.00000	34.00000	18.08462	0.0	-0.0061	0.0018	-	-
		51.00000	34.00000	18.08462	0.0	0.0	0.0	-	-
		52.00000	34.00000	18.08462	0.0	0.0	0.0	-	-
		53.00000	34.00000	18.08462	0.0	0.0	0.0	-	-
		54.00000	34.00000	18.08462	0.0	0.0	0.0	-	-
		55.00000	34.00000	18.08462	0.0	0.0	0.0	-	-
		-25.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		-24.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		-23.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		-22.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		-21.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		-20.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		-19.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		-18.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		-17.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		-16.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		-15.00000	35.00000	18.07692	0.072459	-0.032715	0.020657	-	-
		-14.00000	35.00000	18.07692	0.18543	-0.092524	0.041057	-	-
		-13.00000	35.00000	18.07692	0.28412	-0.15820	0.057756	-	-
		-12.00000	35.00000	18.07692	0.36662	-0.23044	0.079371	-	-
		-11.00000	35.00000	18.07692	0.43076	-0.31000	0.17077	-	-
		-10.00000	35.00000	18.07692	0.47416	-0.39769	0.26239	-	-
		-9.00000	35.00000	18.07692	0.49426	-0.49426	0.35209	-	-
		-8.00000	35.00000	18.07692	0.51681	-0.62881	0.45908	-	-
		-7.00000	35.00000	18.07692	0.52064	-0.78313	0.56925	-	-
		-6.00000	35.00000	18.07692	0.53291	-0.95779	0.67845	-	-
		-5.00000	35.00000	18.07692	0.52058	-1.1523	0.78159	-	-
		-4.00000	35.00000	18.07692	0.47247	-1.3643	0.87311	-	-
		-3.00000	35.00000	18.07692	0.39047	-1.5896	0.94750	-	-
		-2.00000	35.00000	18.07692	0.27898	-1.8211	0.99984	-	-
		-1.00000	35.00000	18.07692	0.14542	-2.0488	1.0263	-	-
		0.00000	35.00000	18.07692	0.0	-2.2612	1.0245	-	-
		1.00000	35.00000	18.07692	0.0	-3.3750	1.5291	-	-
		2.00000	35.00000	18.07692	0.0	-3.3750	1.5291	-	-
		3.00000	35.00000	18.07692	0.0	-3.3750	1.5291	-	-
		4.00000	35.00000	18.07692	0.0	-3.3750	1.5291	-	-
		5.00000	35.00000	18.07692	0.0	-3.4077	1.5356	-	-
		6.00000	35.00000	18.07692	0.0	-3.4675	1.5428	-	-
		7.00000	35.00000	18.07692	0.0	-3.5332	1.5498	-	-
		8.00000	35.00000	18.07692	0.0	-3.6054	1.5598	-	-
		9.00000	35.00000	18.07692	0.0	-3.6850	1.5756	-	-
		10.00000	35.00000	18.07692	0.0	-3.7727	1.5998	-	-
		11.00000	35.00000	18.07692	0.0	-3.8693	1.6342	-	-
		12.00000	35.00000	18.07692	0.0	-4.0038	1.6872	-	-
		13.00000	35.00000	18.07692	0.0	-4.1581	1.7574	-	-
		14.00000	35.00000	18.07692	0.0	-4.3328	1.8454	-	-
		15.00000	35.00000	18.07692	0.0	-4.5273	1.9504	-	-
		16.00000	35.00000	18.07692	0.0	-4.7393	2.0696	-	-
		17.00000	35.00000	18.07692	0.0	-4.9646	2.1979	-	-
		18.00000	35.00000	18.07692	0.0	-5.1961	2.3279	-	-
		19.00000	35.00000	18.07692	0.0	-5.4238	2.4500	-	-
		20.00000	35.00000	18.07692	0.0	-4.5225	2.0490	-	-
		21.00000	35.00000	18.07692	0.0	-5.4238	2.4500	-	-
		22.00000	35.00000	18.07692	0.0	-5.1961	2.3279	-	-
		23.00000	35.00000	18.07692	0.0	-4.9646	2.1979	-	-
		24.00000	35.00000	18.07692	0.0	-4.7393	2.0696	-	-
		25.00000	35.00000	18.07692	0.0	-4.5273	1.9504	-	-
		26.00000	35.00000	18.07692	0.0	-4.3328	1.8454	-	-
		27.00000	35.00000	18.07692	0.0	-4.1581	1.7574	-	-
		28.00000	35.00000	18.07692	0.0	-4.0038	1.6872	-	-
		29.00000	35.00000	18.07692	0.0	-3.8693	1.6342	-	-
		30.00000	35.00000	18.07692	0.0	-3.7727	1.5998	-	-
		31.00000	35.00000	18.07692	0.0	-3.6850	1.5756	-	-
		32.00000	35.00000	18.07692	0.0	-3.6054	1.5598	-	-
		33.00000	35.00000	18.07692	0.0	-3.5332	1.5498	-	-
		34.00000	35.00000	18.07692	0.0	-2.3538	1.0382	-	-
		35.00000	35.00000	18.07692	0.0	-2.0816	0.92728	-	-
		36.00000	35.00000	18.07692	0.0	-1.8211	0.79873	-	-
		37.00000	35.00000	18.07692	0.0	-1.5896	0.66878	-	-
		38.00000	35.00000	18.07692	0.0	-1.3643	0.54048	-	-
		39.00000	35.00000	18.07692	0.0	-1.1523	0.42126	-	-
		40.00000	35.00000	18.07692	0.0	-0.95779	0.31623	-	-
		41.00000	35.00000	18.07692	0.0	-0.78313	0.22823	-	-
		42.00000	35.00000	18.07692	0.0	-0.62881	0.15808	-	-
		43.00000	35.00000	18.07692	0.0	-0.49426	0.10504	-	-
		44.00000	35.00000	18.07692	0.0	-0.39769	0.070644	-	-
		45.00000	35.00000	18.07692	0.0	-0.31000	0.046480	-	-
		46.00000	35.00000	18.07692	0.0	-0.23044	0.030634	-	-
		47.00000	35.00000	18.07692	0.0	-0.15820	0.020657	-	-
		48.00000	35.00000	18.07692	0.0	-0.092524	0.013667	-	-
		49.00000	35.00000	18.07692	0.0	-0.032715	0.0064293	-	-
		50.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		51.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		52.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		53.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		54.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		55.00000	35.00000	18.07692	0.0	0.0	0.0	-	-
		-25.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		-24.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		-23.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		-22.00000	36.00000	18.06923	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-21.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		-20.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		-19.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		-18.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		-17.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		-16.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		-15.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		-14.00000	36.00000	18.06923	0.10090	-0.058885	0.027852	-	-
		-13.00000	36.00000	18.06923	0.19147	-0.12513	0.044446	-	-
		-12.00000	36.00000	18.06923	0.26634	-0.19733	0.060087	-	-
		-11.00000	36.00000	18.06923	0.32371	-0.27601	0.090114	-	-
		-10.00000	36.00000	18.06923	0.36167	-0.36167	0.16362	-	-
		-9.00000	36.00000	18.06923	0.39769	-0.47416	0.24505	-	-
		-8.00000	36.00000	18.06923	0.41831	-0.60217	0.33048	-	-
		-7.00000	36.00000	18.06923	0.42234	-0.74607	0.41807	-	-
		-6.00000	36.00000	18.06923	0.40886	-0.90557	0.50476	-	-
		-5.00000	36.00000	18.06923	0.38120	-1.0794	0.58657	-	-
		-4.00000	36.00000	18.06923	0.34892	-1.2648	0.65907	-	-
		-3.00000	36.00000	18.06923	0.28946	-1.4575	0.71777	-	-
		-2.00000	36.00000	18.06923	0.20708	-1.6514	0.75863	-	-
		-1.00000	36.00000	18.06923	0.10797	-1.8386	0.77851	-	-
		0.00000	36.00000	18.06923	0.0	-2.0100	0.77550	-	-
		1.00000	36.00000	18.06923	0.0	-3.0000	1.1575	-	-
		2.00000	36.00000	18.06923	0.0	-3.0000	1.1575	-	-
		3.00000	36.00000	18.06923	0.0	-3.0000	1.1575	-	-
		4.00000	36.00000	18.06923	0.0	-3.0000	1.1575	-	-
		5.00000	36.00000	18.06923	0.0	-3.0000	1.1575	-	-
		6.00000	36.00000	18.06923	0.0	-3.0589	1.1677	-	-
		7.00000	36.00000	18.06923	0.0	-3.1251	1.1750	-	-
		8.00000	36.00000	18.06923	0.0	-3.1973	1.1830	-	-
		9.00000	36.00000	18.06923	0.0	-3.2760	1.1947	-	-
		10.00000	36.00000	18.06923	0.0	-3.3617	1.2125	-	-
		11.00000	36.00000	18.06923	0.0	-3.4742	1.2417	-	-
		12.00000	36.00000	18.06923	0.0	-3.6022	1.2830	-	-
		13.00000	36.00000	18.06923	0.0	-3.7461	1.3377	-	-
		14.00000	36.00000	18.06923	0.0	-3.9056	1.4063	-	-
		15.00000	36.00000	18.06923	0.0	-4.0794	1.4876	-	-
		16.00000	36.00000	18.06923	0.0	-4.2648	1.5790	-	-
		17.00000	36.00000	18.06923	0.0	-4.4575	1.6759	-	-
		18.00000	36.00000	18.06923	0.0	-4.6514	1.7722	-	-
		19.00000	36.00000	18.06923	0.0	-4.8386	1.8605	-	-
		20.00000	36.00000	18.06923	0.0	-4.0200	1.5510	-	-
		21.00000	36.00000	18.06923	0.0	-4.8386	1.8605	-	-
		22.00000	36.00000	18.06923	0.0	-4.6514	1.7722	-	-
		23.00000	36.00000	18.06923	0.0	-4.4575	1.6759	-	-
		24.00000	36.00000	18.06923	0.0	-4.2648	1.5790	-	-
		25.00000	36.00000	18.06923	0.0	-4.0794	1.4876	-	-
		26.00000	36.00000	18.06923	0.0	-3.9056	1.4063	-	-
		27.00000	36.00000	18.06923	0.0	-3.7461	1.3377	-	-
		28.00000	36.00000	18.06923	0.0	-3.6022	1.2830	-	-
		29.00000	36.00000	18.06923	0.0	-3.4742	1.2417	-	-
		30.00000	36.00000	18.06923	0.0	-3.3617	1.2125	-	-
		31.00000	36.00000	18.06923	0.0	-3.2760	1.1947	-	-
		32.00000	36.00000	18.06923	0.0	-3.1973	1.1830	-	-
		33.00000	36.00000	18.06923	0.0	-3.1251	1.1750	-	-
		34.00000	36.00000	18.06923	0.0	-3.0589	1.1677	-	-
		35.00000	36.00000	18.06923	0.0	-1.8386	0.70308	-	-
		36.00000	36.00000	18.06923	0.0	-1.6514	0.61477	-	-
		37.00000	36.00000	18.06923	0.0	-1.4575	0.51846	-	-
		38.00000	36.00000	18.06923	0.0	-1.2648	0.42155	-	-
		39.00000	36.00000	18.06923	0.0	-1.0794	0.33019	-	-
		40.00000	36.00000	18.06923	0.0	-0.90557	0.24885	-	-
		41.00000	36.00000	18.06923	0.0	-0.74607	0.18026	-	-
		42.00000	36.00000	18.06923	0.0	-0.60217	0.12550	-	-
		43.00000	36.00000	18.06923	0.0	-0.47416	0.084229	-	-
		44.00000	36.00000	18.06923	0.0	-0.36167	0.05002	-	-
		45.00000	36.00000	18.06923	0.0	-0.27601	0.037228	-	-
		46.00000	36.00000	18.06923	0.0	-0.19733	0.025572	-	-
		47.00000	36.00000	18.06923	0.0	-0.12513	0.017567	-	-
		48.00000	36.00000	18.06923	0.0	-0.058885	0.010264	-	-
		49.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		50.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		51.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		52.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		53.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		54.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		55.00000	36.00000	18.06923	0.0	0.0	0.0	-	-
		-25.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		-24.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		-23.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		-22.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		-21.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		-20.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		-19.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		-18.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		-17.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		-16.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		-15.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		-14.00000	37.00000	18.06154	0.023011	-0.015542	0.0095675	-	-
		-13.00000	37.00000	18.06154	0.10718	-0.081362	0.030971	-	-
		-12.00000	37.00000	18.06154	0.17636	-0.15243	0.045193	-	-
		-11.00000	37.00000	18.06154	0.22909	-0.22909	0.059326	-	-
		-10.00000	37.00000	18.06154	0.27601	-0.32371	0.088755	-	-
		-9.00000	37.00000	18.06154	0.31000	-0.43076	0.15403	-	-
		-8.00000	37.00000	18.06154	0.33014	-0.55049	0.22098	-	-
		-7.00000	37.00000	18.06154	0.33564	-0.68272	0.28879	-	-
		-6.00000	37.00000	18.06154	0.32604	-0.82660	0.35544	-	-
		-5.00000	37.00000	18.06154	0.30132	-0.98042	0.41808	-	-
		-4.00000	37.00000	18.06154	0.26208	-1.1414	0.47335	-	-
		-3.00000	37.00000	18.06154	0.20970	-1.3055	0.51782	-	-
		-2.00000	37.00000	18.06154	0.14787	-1.4675	0.54837	-	-
		-1.00000	37.00000	18.06154	0.077372	-1.6209	0.56257	-	-
		0.00000	37.00000	18.06154	0.0	-1.7587	0.55906	-	-
		1.00000	37.00000	18.06154	0.0	-2.6250	0.83442	-	-
		2.00000	37.00000	18.06154	0.0	-2.6250	0.83442	-	-
		3.00000	37.00000	18.06154	0.0	-2.6250	0.83442	-	-
		4.00000	37.00000	18.06154	0.0	-2.6250	0.83442	-	-
		5.00000	37.00000	18.06154	0.0	-2.6250	0.83442	-	-
		6.00000	37.00000	18.06154	0.0	-2.6405	0.83828	-	-
		7.00000	37.00000	18.06154	0.0	-2.7064	0.84778	-	-
		8.00000	37.00000	18.06154	0.0	-2.7774	0.85537	-	-
		9.00000	37.00000	18.06154	0.0	-2.8541	0.86408	-	-
		10.00000	37.00000	18.06154	0.0	-2.9487	0.87808	-	-
		11.00000	37.00000	18.06154	0.0	-3.0558	0.89900	-	-
		12.00000	37.00000	18.06154	0.0	-3.1755	0.92881	-	-
		13.00000	37.00000	18.06154	0.0	-3.3077	0.96872	-	-
		14.00000	37.00000	18.06154	0.0	-3.4516	1.0189	-	-
		15.00000	37.00000	18.06154	0.0	-3.6054	1.0785	-	-
		16.00000	37.00000	18.06154	0.0	-3.7664	1.1450	-	-
		17.00000	37.00000	18.06154	0.0	-3.9305	1.2149	-	-
		18.00000	37.00000	18.06154	0.0	-4.0925	1.2833	-	-
		19.00000	37.00000	18.06154	0.0	-4.2459	1.3448	-	-
		20.00000	37.00000	18.06154	0.0	-3.5175	1.1181	-	-
		21.00000	37.00000	18.06154	0.0	-4.2459	1.3448	-	-
		22.00000	37.00000	18.06154	0.0	-4.0925	1.2833	-	-
		23.00000	37.00000	18.06154	0.0	-3.9305	1.2149	-	-
		24.00000	37.00000	18.06154	0.0	-3.7664	1.1450	-	-
		25.00000	37.00000	18.06154	0.0	-3.6054	1.0785	-	-
		26.00000	37.00000	18.06154	0.0	-3.4516	1.0189	-	-
		27.00000	37.00000	18.06154	0.0	-3.3077	0.96872	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		28.00000	37.00000	18.06154	0.0	-3.1755	0.92881	-	-
		29.00000	37.00000	18.06154	0.0	-3.0558	0.89900	-	-
		30.00000	37.00000	18.06154	0.0	-2.9487	0.87808	-	-
		31.00000	37.00000	18.06154	0.0	-2.8541	0.86408	-	-
		32.00000	37.00000	18.06154	0.0	-2.7774	0.85537	-	-
		33.00000	37.00000	18.06154	0.0	-2.7064	0.84778	-	-
		34.00000	37.00000	18.06154	0.0	-1.7743	0.56292	-	-
		35.00000	37.00000	18.06154	0.0	-1.6209	0.51035	-	-
		36.00000	37.00000	18.06154	0.0	-1.4675	0.44891	-	-
		37.00000	37.00000	18.06154	0.0	-1.3055	0.38047	-	-
		38.00000	37.00000	18.06154	0.0	-1.1414	0.31058	-	-
		39.00000	37.00000	18.06154	0.0	-0.98042	0.24404	-	-
		40.00000	37.00000	18.06154	0.0	-0.82660	0.18451	-	-
		41.00000	37.00000	18.06154	0.0	-0.68272	0.13430	-	-
		42.00000	37.00000	18.06154	0.0	-0.55049	0.094395	-	-
		43.00000	37.00000	18.06154	0.0	-0.43076	0.064586	-	-
		44.00000	37.00000	18.06154	0.0	-0.32371	0.043663	-	-
		45.00000	37.00000	18.06154	0.0	-0.22909	0.029663	-	-
		46.00000	37.00000	18.06154	0.0	-0.15243	0.020952	-	-
		47.00000	37.00000	18.06154	0.0	-0.081362	0.013365	-	-
		48.00000	37.00000	18.06154	0.0	-0.015542	0.0038569	-	-
		49.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		50.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		51.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		52.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		53.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		54.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		55.00000	37.00000	18.06154	0.0	0.0	0.0	-	-
		-25.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-24.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-23.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-22.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-21.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-20.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-19.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-18.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-17.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-16.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-15.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-14.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-13.00000	38.00000	18.05385	0.031364	-0.027422	0.013024	-	-
		-12.00000	38.00000	18.05385	0.096510	-0.096510	0.031134	-	-
		-11.00000	38.00000	18.05385	0.15243	-0.17636	0.045193	-	-
		-10.00000	38.00000	18.05385	0.19733	-0.26634	0.060087	-	-
		-9.00000	38.00000	18.05385	0.23044	-0.36662	0.079371	-	-
		-8.00000	38.00000	18.05385	0.25112	-0.47704	0.13200	-	-
		-7.00000	38.00000	18.05385	0.25892	-0.59704	0.18383	-	-
		-6.00000	38.00000	18.05385	0.25367	-0.72546	0.23393	-	-
		-5.00000	38.00000	18.05385	0.23562	-0.86040	0.28050	-	-
		-4.00000	38.00000	18.05385	0.20551	-0.99916	0.32127	-	-
		-3.00000	38.00000	18.05385	0.16465	-1.1381	0.35381	-	-
		-2.00000	38.00000	18.05385	0.11502	-1.2727	0.37589	-	-
		-1.00000	38.00000	18.05385	0.059133	-1.3977	0.38582	-	-
		0.00000	38.00000	18.05385	0.0	-1.5075	0.38276	-	-
		1.00000	38.00000	18.05385	0.0	-2.2500	0.57129	-	-
		2.00000	38.00000	18.05385	0.0	-2.2500	0.57129	-	-
		3.00000	38.00000	18.05385	0.0	-2.2500	0.57129	-	-
		4.00000	38.00000	18.05385	0.0	-2.2500	0.57129	-	-
		5.00000	38.00000	18.05385	0.0	-2.2500	0.57129	-	-
		6.00000	38.00000	18.05385	0.0	-2.2500	0.57129	-	-
		7.00000	38.00000	18.05385	0.0	-2.2774	0.57737	-	-
		8.00000	38.00000	18.05385	0.0	-2.3465	0.58686	-	-
		9.00000	38.00000	18.05385	0.0	-2.4264	0.59553	-	-
		10.00000	38.00000	18.05385	0.0	-2.5163	0.60581	-	-
		11.00000	38.00000	18.05385	0.0	-2.6166	0.62003	-	-
		12.00000	38.00000	18.05385	0.0	-2.7270	0.64005	-	-
		13.00000	38.00000	18.05385	0.0	-2.8470	0.66705	-	-
		14.00000	38.00000	18.05385	0.0	-2.9755	0.70132	-	-
		15.00000	38.00000	18.05385	0.0	-3.1104	0.74217	-	-
		16.00000	38.00000	18.05385	0.0	-3.2492	0.78783	-	-
		17.00000	38.00000	18.05385	0.0	-3.3881	0.83558	-	-
		18.00000	38.00000	18.05385	0.0	-3.5227	0.88186	-	-
		19.00000	38.00000	18.05385	0.0	-3.6477	0.92268	-	-
		20.00000	38.00000	18.05385	0.0	-3.0150	0.76553	-	-
		21.00000	38.00000	18.05385	0.0	-3.6477	0.92268	-	-
		22.00000	38.00000	18.05385	0.0	-3.5227	0.88186	-	-
		23.00000	38.00000	18.05385	0.0	-3.3881	0.83558	-	-
		24.00000	38.00000	18.05385	0.0	-3.2492	0.78783	-	-
		25.00000	38.00000	18.05385	0.0	-3.1104	0.74217	-	-
		26.00000	38.00000	18.05385	0.0	-2.9755	0.70132	-	-
		27.00000	38.00000	18.05385	0.0	-2.8470	0.66705	-	-
		28.00000	38.00000	18.05385	0.0	-2.7270	0.64005	-	-
		29.00000	38.00000	18.05385	0.0	-2.6166	0.62003	-	-
		30.00000	38.00000	18.05385	0.0	-2.5163	0.60581	-	-
		31.00000	38.00000	18.05385	0.0	-2.4264	0.59553	-	-
		32.00000	38.00000	18.05385	0.0	-2.3465	0.58686	-	-
		33.00000	38.00000	18.05385	0.0	-2.2774	0.57737	-	-
		34.00000	38.00000	18.05385	0.0	-1.5075	0.38276	-	-
		35.00000	38.00000	18.05385	0.0	-1.3977	0.35139	-	-
		36.00000	38.00000	18.05385	0.0	-1.2727	0.31057	-	-
		37.00000	38.00000	18.05385	0.0	-1.1381	0.26429	-	-
		38.00000	38.00000	18.05385	0.0	-0.99916	0.21654	-	-
		39.00000	38.00000	18.05385	0.0	-0.86040	0.17088	-	-
		40.00000	38.00000	18.05385	0.0	-0.72546	0.13003	-	-
		41.00000	38.00000	18.05385	0.0	-0.59704	0.095763	-	-
		42.00000	38.00000	18.05385	0.0	-0.47704	0.068764	-	-
		43.00000	38.00000	18.05385	0.0	-0.36662	0.048737	-	-
		44.00000	38.00000	18.05385	0.0	-0.26634	0.034515	-	-
		45.00000	38.00000	18.05385	0.0	-0.17636	0.024241	-	-
		46.00000	38.00000	18.05385	0.0	-0.096510	0.015567	-	-
		47.00000	38.00000	18.05385	0.0	-0.027422	0.0060752	-	-
		48.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		49.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		50.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		51.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		52.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		53.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		54.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		55.00000	38.00000	18.05385	0.0	0.0	0.0	-	-
		-25.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-24.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-23.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-22.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-21.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-20.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-19.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-18.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-17.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-16.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-15.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-14.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-13.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-12.00000	39.00000	18.04615	0.027422	-0.031364	0.013024	-	-
		-11.00000	39.00000	18.04615	0.081362	-0.10718	0.030971	-	-
		-10.00000	39.00000	18.04615	0.12513	-0.19147	0.044446	-	-
		-9.00000	39.00000	18.04615	0.15820	-0.28412	0.057756	-	-
		-8.00000	39.00000	18.04615	0.18014	-0.38470	0.073621	-	-
		-7.00000	39.00000	18.04615	0.19075	-0.49239	0.10257	-	-
		-6.00000	39.00000	18.04615	0.19006	-0.60585	0.14041	-	-
		-5.00000	39.00000	18.04615	0.17845	-0.72319	0.17479	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-4.00000	39.00000	18.04615	0.15672	-0.84184	0.20445	-	-
		-3.00000	39.00000	18.04615	0.12611	-0.95854	0.22791	-	-
		-2.00000	39.00000	18.04615	0.088319	-1.0694	0.24380	-	-
		-1.00000	39.00000	18.04615	0.045468	-1.1702	0.25112	-	-
		0.00000	39.00000	18.04615	0.0	-1.2562	0.24949	-	-
		1.00000	39.00000	18.04615	0.0	-1.8750	0.37237	-	-
		2.00000	39.00000	18.04615	0.0	-1.8750	0.37237	-	-
		3.00000	39.00000	18.04615	0.0	-1.8750	0.37237	-	-
		4.00000	39.00000	18.04615	0.0	-1.8750	0.37237	-	-
		5.00000	39.00000	18.04615	0.0	-1.8750	0.37237	-	-
		6.00000	39.00000	18.04615	0.0	-1.8750	0.37237	-	-
		7.00000	39.00000	18.04615	0.0	-1.8750	0.37237	-	-
		8.00000	39.00000	18.04615	0.0	-1.9064	0.37932	-	-
		9.00000	39.00000	18.04615	0.0	-1.9822	0.38998	-	-
		10.00000	39.00000	18.04615	0.0	-2.0665	0.39925	-	-
		11.00000	39.00000	18.04615	0.0	-2.1591	0.40947	-	-
		12.00000	39.00000	18.04615	0.0	-2.2597	0.42252	-	-
		13.00000	39.00000	18.04615	0.0	-2.3674	0.43964	-	-
		14.00000	39.00000	18.04615	0.0	-2.4809	0.46139	-	-
		15.00000	39.00000	18.04615	0.0	-2.5982	0.48745	-	-
		16.00000	39.00000	18.04615	0.0	-2.7168	0.51673	-	-
		17.00000	39.00000	18.04615	0.0	-2.8335	0.54734	-	-
		18.00000	39.00000	18.04615	0.0	-2.9444	0.57686	-	-
		19.00000	39.00000	18.04615	0.0	-3.0452	0.60257	-	-
		20.00000	39.00000	18.04615	0.0	-2.5125	0.49898	-	-
		21.00000	39.00000	18.04615	0.0	-3.0452	0.60257	-	-
		22.00000	39.00000	18.04615	0.0	-2.9444	0.57686	-	-
		23.00000	39.00000	18.04615	0.0	-2.8335	0.54734	-	-
		24.00000	39.00000	18.04615	0.0	-2.7168	0.51673	-	-
		25.00000	39.00000	18.04615	0.0	-2.5982	0.48745	-	-
		26.00000	39.00000	18.04615	0.0	-2.4809	0.46139	-	-
		27.00000	39.00000	18.04615	0.0	-2.3674	0.43964	-	-
		28.00000	39.00000	18.04615	0.0	-2.2597	0.42252	-	-
		29.00000	39.00000	18.04615	0.0	-2.1591	0.40947	-	-
		30.00000	39.00000	18.04615	0.0	-2.0665	0.39925	-	-
		31.00000	39.00000	18.04615	0.0	-1.9822	0.38998	-	-
		32.00000	39.00000	18.04615	0.0	-1.9064	0.37932	-	-
		33.00000	39.00000	18.04615	0.0	-1.8750	0.37237	-	-
		34.00000	39.00000	18.04615	0.0	-1.2562	0.24949	-	-
		35.00000	39.00000	18.04615	0.0	-1.1702	0.23020	-	-
		36.00000	39.00000	18.04615	0.0	-1.0694	0.20448	-	-
		37.00000	39.00000	18.04615	0.0	-0.95854	0.17496	-	-
		38.00000	39.00000	18.04615	0.0	-0.84184	0.14435	-	-
		39.00000	39.00000	18.04615	0.0	-0.72319	0.11508	-	-
		40.00000	39.00000	18.04615	0.0	-0.60585	0.089013	-	-
		41.00000	39.00000	18.04615	0.0	-0.49229	0.067270	-	-
		42.00000	39.00000	18.04615	0.0	-0.38470	0.050141	-	-
		43.00000	39.00000	18.04615	0.0	-0.28412	0.037099	-	-
		44.00000	39.00000	18.04615	0.0	-0.19147	0.026879	-	-
		45.00000	39.00000	18.04615	0.0	-0.10718	0.017606	-	-
		46.00000	39.00000	18.04615	0.0	-0.031364	0.0069484	-	-
		47.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		48.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		49.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		50.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		51.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		52.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		53.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		54.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		55.00000	39.00000	18.04615	0.0	0.0	0.0	-	-
		-25.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-24.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-23.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-22.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-21.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-20.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-19.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-18.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-17.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-16.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-15.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-14.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-13.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-12.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-11.00000	40.00000	18.03846	0.015542	-0.023011	0.0095675	-	-
		-10.00000	40.00000	18.03846	0.058885	-0.10090	0.027852	-	-
		-9.00000	40.00000	18.03846	0.092524	-0.18543	0.041057	-	-
		-8.00000	40.00000	18.03846	0.11622	-0.27596	0.052729	-	-
		-7.00000	40.00000	18.03846	0.12992	-0.37155	0.065034	-	-
		-6.00000	40.00000	18.03846	0.13380	-0.47079	0.078941	-	-
		-5.00000	40.00000	18.03846	0.128232	-0.57182	0.09093	-	-
		-4.00000	40.00000	18.03846	0.11427	-0.67227	0.12050	-	-
		-3.00000	40.00000	18.03846	0.092781	-0.76927	0.13811	-	-
		-2.00000	40.00000	18.03846	0.065343	-0.85951	0.15033	-	-
		-1.00000	40.00000	18.03846	0.033743	-0.93935	0.15677	-	-
		0.00000	40.00000	18.03846	0.0	-1.0050	0.15745	-	-
		1.00000	40.00000	18.03846	0.0	-1.5000	0.23501	-	-
		2.00000	40.00000	18.03846	0.0	-1.5000	0.23501	-	-
		3.00000	40.00000	18.03846	0.0	-1.5000	0.23501	-	-
		4.00000	40.00000	18.03846	0.0	-1.5000	0.23501	-	-
		5.00000	40.00000	18.03846	0.0	-1.5000	0.23501	-	-
		6.00000	40.00000	18.03846	0.0	-1.5000	0.23501	-	-
		7.00000	40.00000	18.03846	0.0	-1.5000	0.23501	-	-
		8.00000	40.00000	18.03846	0.0	-1.5000	0.23501	-	-
		9.00000	40.00000	18.03846	0.0	-1.5230	0.24072	-	-
		10.00000	40.00000	18.03846	0.0	-1.6000	0.25260	-	-
		11.00000	40.00000	18.03846	0.0	-1.6854	0.26240	-	-
		12.00000	40.00000	18.03846	0.0	-1.7760	0.27211	-	-
		13.00000	40.00000	18.03846	0.0	-1.8715	0.28319	-	-
		14.00000	40.00000	18.03846	0.0	-1.9708	0.29648	-	-
		15.00000	40.00000	18.03846	0.0	-2.0718	0.31214	-	-
		16.00000	40.00000	18.03846	0.0	-2.1723	0.32968	-	-
		17.00000	40.00000	18.03846	0.0	-2.2693	0.34803	-	-
		18.00000	40.00000	18.03846	0.0	-2.3595	0.36572	-	-
		19.00000	40.00000	18.03846	0.0	-2.4393	0.38106	-	-
		20.00000	40.00000	18.03846	0.0	-2.5100	0.39491	-	-
		21.00000	40.00000	18.03846	0.0	-2.4393	0.38106	-	-
		22.00000	40.00000	18.03846	0.0	-2.3595	0.36572	-	-
		23.00000	40.00000	18.03846	0.0	-2.2693	0.34803	-	-
		24.00000	40.00000	18.03846	0.0	-2.1723	0.32968	-	-
		25.00000	40.00000	18.03846	0.0	-2.0718	0.31214	-	-
		26.00000	40.00000	18.03846	0.0	-1.9708	0.29648	-	-
		27.00000	40.00000	18.03846	0.0	-1.8715	0.28319	-	-
		28.00000	40.00000	18.03846	0.0	-1.7760	0.27211	-	-
		29.00000	40.00000	18.03846	0.0	-1.6854	0.26240	-	-
		30.00000	40.00000	18.03846	0.0	-1.6000	0.25260	-	-
		31.00000	40.00000	18.03846	0.0	-1.5230	0.24072	-	-
		32.00000	40.00000	18.03846	0.0	-1.5000	0.23501	-	-
		33.00000	40.00000	18.03846	0.0	-1.5000	0.23501	-	-
		34.00000	40.00000	18.03846	0.0	-1.0050	0.15745	-	-
		35.00000	40.00000	18.03846	0.0	-0.93935	0.14605	-	-
		36.00000	40.00000	18.03846	0.0	-0.85951	0.13071	-	-
		37.00000	40.00000	18.03846	0.0	-0.76927	0.11302	-	-
		38.00000	40.00000	18.03846	0.0	-0.67227	0.094668	-	-
		39.00000	40.00000	18.03846	0.0	-0.57182	0.077129	-	-
		40.00000	40.00000	18.03846	0.0	-0.47079	0.061471	-	-
		41.00000	40.00000	18.03846	0.0	-0.37155	0.048185	-	-
		42.00000	40.00000	18.03846	0.0	-0.27596	0.037103	-	-
		43.00000	40.00000	18.03846	0.0	-0.18543	0.027390	-	-
		44.00000	40.00000	18.03846	0.0	-0.10090	0.017588	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
		45.00000	40.00000	18.03846	0.0	-0.023011	0.0057106	-	-
		46.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		47.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		48.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		49.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		50.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		51.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		52.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		53.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		54.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		55.00000	40.00000	18.03846	0.0	0.0	0.0	-	-
		-25.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-24.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-23.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-22.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-21.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-20.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-19.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-18.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-17.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-16.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-15.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-14.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-13.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-12.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-11.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-10.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-9.00000	41.00000	18.03077	0.032715	-0.072459	0.020669	-	-
		-8.00000	41.00000	18.03077	0.058484	-0.15300	0.034421	-	-
		-7.00000	41.00000	18.03077	0.075418	-0.23687	0.045197	-	-
		-6.00000	41.00000	18.03077	0.083777	-0.32269	0.054869	-	-
		-5.00000	41.00000	18.03077	0.084056	-0.40867	0.064339	-	-
		-4.00000	41.00000	18.03077	0.077016	-0.49266	0.073755	-	-
		-3.00000	41.00000	18.03077	0.063688	-0.57212	0.082741	-	-
		-2.00000	41.00000	18.03077	0.045366	-0.64418	0.090623	-	-
		-1.00000	41.00000	18.03077	0.023573	-0.70578	0.096654	-	-
		0.00000	41.00000	18.03077	0.0	-0.75375	0.10020	-	-
		1.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		2.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		3.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		4.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		5.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		6.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		7.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		8.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		9.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		10.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		11.00000	41.00000	18.03077	0.0	-1.1975	0.16380	-	-
		12.00000	41.00000	18.03077	0.0	-1.2780	0.17446	-	-
		13.00000	41.00000	18.03077	0.0	-1.3619	0.18384	-	-
		14.00000	41.00000	18.03077	0.0	-1.4477	0.19312	-	-
		15.00000	41.00000	18.03077	0.0	-1.5337	0.20292	-	-
		16.00000	41.00000	18.03077	0.0	-1.6177	0.21334	-	-
		17.00000	41.00000	18.03077	0.0	-1.6971	0.22401	-	-
		18.00000	41.00000	18.03077	0.0	-1.7692	0.23422	-	-
		19.00000	41.00000	18.03077	0.0	-1.8308	0.24309	-	-
		20.00000	41.00000	18.03077	0.0	-1.5075	0.20041	-	-
		21.00000	41.00000	18.03077	0.0	-1.8308	0.24309	-	-
		22.00000	41.00000	18.03077	0.0	-1.7692	0.23422	-	-
		23.00000	41.00000	18.03077	0.0	-1.6971	0.22401	-	-
		24.00000	41.00000	18.03077	0.0	-1.6177	0.21334	-	-
		25.00000	41.00000	18.03077	0.0	-1.5337	0.20292	-	-
		26.00000	41.00000	18.03077	0.0	-1.4477	0.19312	-	-
		27.00000	41.00000	18.03077	0.0	-1.3619	0.18384	-	-
		28.00000	41.00000	18.03077	0.0	-1.2780	0.17446	-	-
		29.00000	41.00000	18.03077	0.0	-1.1975	0.16380	-	-
		30.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		31.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		32.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		33.00000	41.00000	18.03077	0.0	-1.1250	0.14956	-	-
		34.00000	41.00000	18.03077	0.0	-0.75375	0.10020	-	-
		35.00000	41.00000	18.03077	0.0	-0.70578	0.093530	-	-
		36.00000	41.00000	18.03077	0.0	-0.64418	0.084661	-	-
		37.00000	41.00000	18.03077	0.0	-0.57212	0.074453	-	-
		38.00000	41.00000	18.03077	0.0	-0.49266	0.063784	-	-
		39.00000	41.00000	18.03077	0.0	-0.40867	0.053563	-	-
		40.00000	41.00000	18.03077	0.0	-0.32269	0.043560	-	-
		41.00000	41.00000	18.03077	0.0	-0.23687	0.034282	-	-
		42.00000	41.00000	18.03077	0.0	-0.15300	0.024902	-	-
		43.00000	41.00000	18.03077	0.0	-0.072459	0.014240	-	-
		44.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		45.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		46.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		47.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		48.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		49.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		50.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		51.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		52.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		53.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		54.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		55.00000	41.00000	18.03077	0.0	0.0	0.0	-	-
		-25.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-24.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-23.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-22.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-21.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-20.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-19.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-18.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-17.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-16.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-15.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-14.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-13.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-12.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-11.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-10.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-9.00000	42.00000	18.02308	0.0	0.0	0.0	-	-
		-8.00000	42.00000	18.02308	0.0061684	-0.017640	0.0069924	-	-
		-7.00000	42.00000	18.02308	0.026374	-0.090292	0.012616	-	-
		-6.00000	42.00000	18.02308	0.039056	-0.16352	0.033915	-	-
		-5.00000	42.00000	18.02308	0.044721	-0.23565	0.042659	-	-
		-4.00000	42.00000	18.02308	0.044085	-0.30472	0.049843	-	-
		-3.00000	42.00000	18.02308	0.038080	-0.36847	0.055881	-	-
		-2.00000	42.00000	18.02308	0.027839	-0.424845	0.060809	-	-
		-1.00000	42.00000	18.02308	0.014669	-0.47001	0.064458	-	-
		0.00000	42.00000	18.02308	0.0	-0.50250	0.066612	-	-
		1.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-
		2.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-
		3.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-
		4.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-
		5.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-
		6.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-
		7.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-
		8.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-
		9.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-
		10.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-
		11.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-
		12.00000	42.00000	18.02308	0.0	-0.76764	0.10460	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates				Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
13.00000	42.00000	18.02308	0.0	-0.84030	0.11692	-	-	-	-	-
14.00000	42.00000	18.02308	0.0	-0.91352	0.12680	-	-	-	-	-
15.00000	42.00000	18.02308	0.0	-0.98565	0.13528	-	-	-	-	-
16.00000	42.00000	18.02308	0.0	-1.0547	0.14296	-	-	-	-	-
17.00000	42.00000	18.02308	0.0	-1.1185	0.15007	-	-	-	-	-
18.00000	42.00000	18.02308	0.0	-1.1744	0.15649	-	-	-	-	-
19.00000	42.00000	18.02308	0.0	-1.2200	0.16193	-	-	-	-	-
20.00000	42.00000	18.02308	0.0	-1.0050	0.13322	-	-	-	-	-
21.00000	42.00000	18.02308	0.0	-1.2200	0.16193	-	-	-	-	-
22.00000	42.00000	18.02308	0.0	-1.1744	0.15649	-	-	-	-	-
23.00000	42.00000	18.02308	0.0	-1.1185	0.15007	-	-	-	-	-
24.00000	42.00000	18.02308	0.0	-1.0547	0.14296	-	-	-	-	-
25.00000	42.00000	18.02308	0.0	-0.98565	0.13528	-	-	-	-	-
26.00000	42.00000	18.02308	0.0	-0.91352	0.12680	-	-	-	-	-
27.00000	42.00000	18.02308	0.0	-0.84030	0.11692	-	-	-	-	-
28.00000	42.00000	18.02308	0.0	-0.76764	0.10460	-	-	-	-	-
29.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-	-	-	-
30.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-	-	-	-
31.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-	-	-	-
32.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-	-	-	-
33.00000	42.00000	18.02308	0.0	-0.75000	0.099421	-	-	-	-	-
34.00000	42.00000	18.02308	0.0	-0.50250	0.066612	-	-	-	-	-
35.00000	42.00000	18.02308	0.0	-0.47001	0.062507	-	-	-	-	-
36.00000	42.00000	18.02308	0.0	-0.42445	0.057066	-	-	-	-	-
37.00000	42.00000	18.02308	0.0	-0.36847	0.050647	-	-	-	-	-
38.00000	42.00000	18.02308	0.0	-0.30472	0.043543	-	-	-	-	-
39.00000	42.00000	18.02308	0.0	-0.23565	0.035855	-	-	-	-	-
40.00000	42.00000	18.02308	0.0	-0.16352	0.027376	-	-	-	-	-
41.00000	42.00000	18.02308	0.0	-0.090299	0.017504	-	-	-	-	-
42.00000	42.00000	18.02308	0.0	-0.017640	0.0051808	-	-	-	-	-
43.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
44.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
45.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
46.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
47.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
48.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
49.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
50.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
51.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
52.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
53.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
54.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
55.00000	42.00000	18.02308	0.0	0.0	0.0	-	-	-	-	0.0
-25.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-24.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-23.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-22.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-21.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-20.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-19.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-18.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-17.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-16.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-15.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-14.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-13.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-12.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-11.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-10.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-9.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-8.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-7.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-6.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0
-5.00000	43.00000	18.01538	0.0095590	-0.054279	0.014473	-	-	-	-	0.0
-4.00000	43.00000	18.01538	0.014778	-0.10978	0.024144	-	-	-	-	0.0
-3.00000	43.00000	18.01538	0.015373	-0.15943	0.031130	-	-	-	-	0.0
-2.00000	43.00000	18.01538	0.012340	-0.20106	0.036077	-	-	-	-	0.0
-1.00000	43.00000	18.01538	0.0068074	-0.23243	0.039299	-	-	-	-	0.0
0.00000	43.00000	18.01538	0.0	-0.25125	0.040894	-	-	-	-	0.0
1.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
2.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
3.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
4.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
5.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
6.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
7.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
8.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
9.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
10.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
11.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
12.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
13.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
14.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
15.00000	43.00000	18.01538	0.0	-0.42928	0.073341	-	-	-	-	0.0
16.00000	43.00000	18.01538	0.0	-0.48478	0.082315	-	-	-	-	0.0
17.00000	43.00000	18.01538	0.0	-0.53443	0.089428	-	-	-	-	0.0
18.00000	43.00000	18.01538	0.0	-0.57606	0.095026	-	-	-	-	0.0
19.00000	43.00000	18.01538	0.0	-0.60743	0.099216	-	-	-	-	0.0
20.00000	43.00000	18.01538	0.0	-0.50250	0.081787	-	-	-	-	0.0
21.00000	43.00000	18.01538	0.0	-0.60743	0.099216	-	-	-	-	0.0
22.00000	43.00000	18.01538	0.0	-0.57606	0.095026	-	-	-	-	0.0
23.00000	43.00000	18.01538	0.0	-0.53443	0.089428	-	-	-	-	0.0
24.00000	43.00000	18.01538	0.0	-0.48478	0.082315	-	-	-	-	0.0
25.00000	43.00000	18.01538	0.0	-0.42928	0.073341	-	-	-	-	0.0
26.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
27.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
28.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
29.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
30.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
31.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
32.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
33.00000	43.00000	18.01538	0.0	-0.37500	0.061035	-	-	-	-	0.0
34.00000	43.00000	18.01538	0.0	-0.25125	0.040894	-	-	-	-	0.0
35.00000	43.00000	18.01538	0.0	-0.23243	0.038181	-	-	-	-	0.0
36.00000	43.00000	18.01538	0.0	-0.20106	0.033991	-	-	-	-	0.0
37.00000	43.00000	18.01538	0.0	-0.15943	0.028393	-	-	-	-	0.0
38.00000	43.00000	18.01538	0.0	-0.10978	0.021280	-	-	-	-	0.0
39.00000	43.00000	18.01538	0.0	-0.054279	0.012306	-	-	-	-	0.0
40.00000	43.00000	18.01538	0.0	0.0	0.0	-	-	-	-	0.0



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-19.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-18.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-17.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-16.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-15.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-14.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-13.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-12.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-11.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-10.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-9.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-8.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-7.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-6.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-5.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-4.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-3.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-2.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-1.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		0.00000	44.00000	18.00769	0.0	0.0	0.0025890	-	-
		1.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		2.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		3.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		4.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		5.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		6.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		7.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		8.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		9.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		10.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		11.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		12.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		13.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		14.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		15.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		16.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		17.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		18.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		19.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		20.00000	44.00000	18.00769	0.0	0.0	0.0051780	-	-
		21.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		22.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		23.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		24.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		25.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		26.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		27.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		28.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		29.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		30.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		31.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		32.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		33.00000	44.00000	18.00769	0.0	0.0	0.0038642	-	-
		34.00000	44.00000	18.00769	0.0	0.0	0.0025890	-	-
		35.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		36.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		37.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		38.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		39.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		40.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		41.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		42.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		43.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		44.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		45.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		46.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		47.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		48.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		49.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		50.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		51.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		52.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		53.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		54.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		55.00000	44.00000	18.00769	0.0	0.0	0.0	-	-
		-25.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-24.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-23.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-22.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-21.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-20.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-19.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-18.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-17.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-16.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-15.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-14.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-13.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-12.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-11.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-10.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-9.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-8.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-7.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-6.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-5.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-4.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-3.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-2.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		-1.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		0.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		1.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		2.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		3.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		4.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		5.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		6.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		7.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		8.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		9.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		10.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		11.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		12.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		13.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		14.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		15.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		16.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		17.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		18.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		19.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		20.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		21.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		22.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		23.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		24.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		25.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		26.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		27.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		28.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		29.00000	45.00000	18.00000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		30.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		31.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		32.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		33.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		34.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		35.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		36.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		37.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		38.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		39.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		40.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		41.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		42.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		43.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		44.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		45.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		46.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		47.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		48.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		49.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		50.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		51.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		52.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		53.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		54.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
		55.00000	45.00000	18.00000	0.0	0.0	0.0	-	-
Grid 2	Grid 2	-25.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-11.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-10.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-9.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-8.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-7.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-6.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-5.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-4.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-3.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-2.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-1.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		0.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		1.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		2.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		3.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		4.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		5.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		6.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		7.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		8.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		9.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		10.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		11.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		12.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		13.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		14.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		15.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		16.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		17.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		18.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		19.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		20.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		22.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		23.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		24.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		25.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		26.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		27.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		28.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		29.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		30.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		31.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		32.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		33.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		34.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		35.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		36.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		37.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		38.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		39.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		40.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		41.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		42.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		43.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-20.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-11.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-10.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-9.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-8.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-7.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-6.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-5.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-4.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-3.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-2.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-1.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		0.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		1.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		2.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		3.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		4.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		5.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		6.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		7.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		8.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		9.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		10.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		11.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		12.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		13.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		14.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		15.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		16.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		17.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		18.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		19.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		20.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		22.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		23.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		24.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		25.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		26.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		27.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		28.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		29.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		30.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		31.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		32.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		33.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		34.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		35.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		36.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		37.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		38.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		39.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		40.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		41.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		42.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		43.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-19.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-11.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-10.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-9.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-8.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-7.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-6.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-5.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-4.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-3.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-2.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-1.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		0.00000	-18.00000	15.00000	0.0	0.0	0.0025890	-	-
		1.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		2.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		3.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		4.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		5.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		6.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		7.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		8.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		9.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		10.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		11.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		12.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		13.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		14.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		15.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		16.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		17.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		18.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		19.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		20.00000	-18.00000	15.00000	0.0	0.0	0.0051780	-	-
		21.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		22.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		23.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		24.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		25.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		26.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		27.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		28.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		29.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		30.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		31.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		32.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		33.00000	-18.00000	15.00000	0.0	0.0	0.0038642	-	-
		34.00000	-18.00000	15.00000	0.0	0.0	0.0025890	-	-
		35.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		36.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		37.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		38.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		39.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		40.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		41.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		42.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		43.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		47.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-18.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-11.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-10.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-9.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-8.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-7.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-6.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-5.00000	-17.00000	15.00000	0.0095590	0.054279	0.014473	-	-
		-4.00000	-17.00000	15.00000	0.014778	0.109787	0.024144	-	-
		-3.00000	-17.00000	15.00000	0.015373	0.15943	0.031130	-	-
		-2.00000	-17.00000	15.00000	0.012340	0.20106	0.036077	-	-
		-1.00000	-17.00000	15.00000	0.0068074	0.23243	0.039299	-	-
		0.00000	-17.00000	15.00000	0.0	0.25125	0.040894	-	-
		1.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		2.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		3.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		4.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		5.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		6.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		7.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		8.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		9.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		10.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		11.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		12.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		13.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		14.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		15.00000	-17.00000	15.00000	0.0	0.42928	0.073341	-	-
		16.00000	-17.00000	15.00000	0.0	0.48478	0.082315	-	-
		17.00000	-17.00000	15.00000	0.0	0.53443	0.089428	-	-
		18.00000	-17.00000	15.00000	0.0	0.57606	0.095026	-	-
		19.00000	-17.00000	15.00000	0.0	0.60743	0.099216	-	-
		20.00000	-17.00000	15.00000	0.0	0.50250	0.081787	-	-
		21.00000	-17.00000	15.00000	0.0	0.60743	0.099216	-	-
		22.00000	-17.00000	15.00000	0.0	0.57606	0.095026	-	-
		23.00000	-17.00000	15.00000	0.0	0.53443	0.089428	-	-
		24.00000	-17.00000	15.00000	0.0	0.48478	0.082315	-	-
		25.00000	-17.00000	15.00000	0.0	0.42928	0.073341	-	-
		26.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		27.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		28.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		29.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		30.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		31.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		32.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		33.00000	-17.00000	15.00000	0.0	0.37500	0.061035	-	-
		34.00000	-17.00000	15.00000	0.0	0.25125	0.040894	-	-
		35.00000	-17.00000	15.00000	0.0	0.23243	0.039299	-	-
		36.00000	-17.00000	15.00000	0.0	0.20106	0.036077	-	-
		37.00000	-17.00000	15.00000	0.0	0.15943	0.031130	-	-
		38.00000	-17.00000	15.00000	0.0	0.10978	0.021280	-	-
		39.00000	-17.00000	15.00000	0.0	0.054279	0.012306	-	-
		40.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		41.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		42.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		43.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-17.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-11.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-10.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-9.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-8.00000	-16.00000	15.00000	0.0061684	0.017640	0.0069924	-	-
		-7.00000	-16.00000	15.00000	0.026374	0.090299	0.022616	-	-
		-6.00000	-16.00000	15.00000	0.039056	0.16352	0.033915	-	-
		-5.00000	-16.00000	15.00000	0.044721	0.22365	0.042659	-	-
		-4.00000	-16.00000	15.00000	0.044085	0.30472	0.049843	-	-
		-3.00000	-16.00000	15.00000	0.038080	0.36847	0.055881	-	-
		-2.00000	-16.00000	15.00000	0.027839	0.42445	0.060809	-	-
		-1.00000	-16.00000	15.00000	0.014669	0.47001	0.064458	-	-
		0.00000	-16.00000	15.00000	0.0	0.50250	0.066612	-	-
		1.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		2.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		3.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		4.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		5.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		6.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		7.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		8.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		9.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		10.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		11.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		12.00000	-16.00000	15.00000	0.0	0.76764	0.10460	-	-
		13.00000	-16.00000	15.00000	0.0	0.84030	0.11692	-	-
		14.00000	-16.00000	15.00000	0.0	0.91352	0.12680	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		15.00000	-16.00000	15.00000	0.0	0.98565	0.13528	-	-
		16.00000	-16.00000	15.00000	0.0	1.0547	0.14296	-	-
		17.00000	-16.00000	15.00000	0.0	1.1185	0.15007	-	-
		18.00000	-16.00000	15.00000	0.0	1.1744	0.15649	-	-
		19.00000	-16.00000	15.00000	0.0	1.2200	0.16193	-	-
		20.00000	-16.00000	15.00000	0.0	1.0050	0.13322	-	-
		21.00000	-16.00000	15.00000	0.0	1.2200	0.16193	-	-
		22.00000	-16.00000	15.00000	0.0	1.1744	0.15649	-	-
		23.00000	-16.00000	15.00000	0.0	1.1185	0.15007	-	-
		24.00000	-16.00000	15.00000	0.0	1.0547	0.14296	-	-
		25.00000	-16.00000	15.00000	0.0	0.98565	0.13528	-	-
		26.00000	-16.00000	15.00000	0.0	0.91352	0.12680	-	-
		27.00000	-16.00000	15.00000	0.0	0.84030	0.11692	-	-
		28.00000	-16.00000	15.00000	0.0	0.76764	0.10460	-	-
		29.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		30.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		31.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		32.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		33.00000	-16.00000	15.00000	0.0	0.75000	0.099421	-	-
		34.00000	-16.00000	15.00000	0.0	0.50250	0.066612	-	-
		35.00000	-16.00000	15.00000	0.0	0.47000	0.02507	-	-
		36.00000	-16.00000	15.00000	0.0	0.42445	0.057066	-	-
		37.00000	-16.00000	15.00000	0.0	0.36847	0.050647	-	-
		38.00000	-16.00000	15.00000	0.0	0.30472	0.043543	-	-
		39.00000	-16.00000	15.00000	0.0	0.23565	0.035855	-	-
		40.00000	-16.00000	15.00000	0.0	0.16352	0.027376	-	-
		41.00000	-16.00000	15.00000	0.0	0.090299	0.017504	-	-
		42.00000	-16.00000	15.00000	0.0	0.017640	0.0051808	-	-
		43.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-16.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-11.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-10.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-9.00000	-15.00000	15.00000	0.032715	0.072459	0.020669	-	-
		-8.00000	-15.00000	15.00000	0.058484	0.15300	0.034421	-	-
		-7.00000	-15.00000	15.00000	0.075418	0.23687	0.045197	-	-
		-6.00000	-15.00000	15.00000	0.083777	0.32269	0.054869	-	-
		-5.00000	-15.00000	15.00000	0.084056	0.40867	0.064339	-	-
		-4.00000	-15.00000	15.00000	0.077016	0.49266	0.073755	-	-
		-3.00000	-15.00000	15.00000	0.063688	0.57212	0.082741	-	-
		-2.00000	-15.00000	15.00000	0.045366	0.64418	0.090623	-	-
		-1.00000	-15.00000	15.00000	0.023573	0.70578	0.096554	-	-
		0.00000	-15.00000	15.00000	0.0	0.75375	0.10020	-	-
		1.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		2.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		3.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		4.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		5.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		6.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		7.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		8.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		9.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		10.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		11.00000	-15.00000	15.00000	0.0	1.1975	0.16380	-	-
		12.00000	-15.00000	15.00000	0.0	1.2780	0.17446	-	-
		13.00000	-15.00000	15.00000	0.0	1.3619	0.18384	-	-
		14.00000	-15.00000	15.00000	0.0	1.4477	0.19312	-	-
		15.00000	-15.00000	15.00000	0.0	1.5337	0.20292	-	-
		16.00000	-15.00000	15.00000	0.0	1.6177	0.21334	-	-
		17.00000	-15.00000	15.00000	0.0	1.6971	0.22401	-	-
		18.00000	-15.00000	15.00000	0.0	1.7692	0.23422	-	-
		19.00000	-15.00000	15.00000	0.0	1.8308	0.24309	-	-
		20.00000	-15.00000	15.00000	0.0	1.5075	0.20041	-	-
		21.00000	-15.00000	15.00000	0.0	1.8308	0.24309	-	-
		22.00000	-15.00000	15.00000	0.0	1.7692	0.23422	-	-
		23.00000	-15.00000	15.00000	0.0	1.6971	0.22401	-	-
		24.00000	-15.00000	15.00000	0.0	1.6177	0.21334	-	-
		25.00000	-15.00000	15.00000	0.0	1.5337	0.20292	-	-
		26.00000	-15.00000	15.00000	0.0	1.4477	0.19312	-	-
		27.00000	-15.00000	15.00000	0.0	1.3619	0.18384	-	-
		28.00000	-15.00000	15.00000	0.0	1.2780	0.17446	-	-
		29.00000	-15.00000	15.00000	0.0	1.1975	0.16380	-	-
		30.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		31.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		32.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		33.00000	-15.00000	15.00000	0.0	1.1250	0.14956	-	-
		34.00000	-15.00000	15.00000	0.0	0.75375	0.10020	-	-
		35.00000	-15.00000	15.00000	0.0	0.70578	0.093530	-	-
		36.00000	-15.00000	15.00000	0.0	0.64418	0.084661	-	-
		37.00000	-15.00000	15.00000	0.0	0.57212	0.074453	-	-
		38.00000	-15.00000	15.00000	0.0	0.49266	0.063784	-	-
		39.00000	-15.00000	15.00000	0.0	0.40867	0.053363	-	-
		40.00000	-15.00000	15.00000	0.0	0.32269	0.043560	-	-
		41.00000	-15.00000	15.00000	0.0	0.23687	0.034282	-	-
		42.00000	-15.00000	15.00000	0.0	0.15300	0.024902	-	-
		43.00000	-15.00000	15.00000	0.0	0.072459	0.014240	-	-
		44.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-15.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-17.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-11.00000	-14.00000	15.00000	0.015542	0.023011	0.0095675	-	-
		-10.00000	-14.00000	15.00000	0.058885	0.10090	0.027852	-	-
		-9.00000	-14.00000	15.00000	0.092524	0.18543	0.041057	-	-
		-8.00000	-14.00000	15.00000	0.11622	0.27596	0.052729	-	-
		-7.00000	-14.00000	15.00000	0.12992	0.37155	0.065034	-	-
		-6.00000	-14.00000	15.00000	0.13380	0.47079	0.078941	-	-
		-5.00000	-14.00000	15.00000	0.12832	0.57182	0.098093	-	-
		-4.00000	-14.00000	15.00000	0.11427	0.67227	0.12050	-	-
		-3.00000	-14.00000	15.00000	0.092781	0.76927	0.13811	-	-
		-2.00000	-14.00000	15.00000	0.065949	0.85951	0.15093	-	-
		-1.00000	-14.00000	15.00000	0.033743	0.93935	0.15677	-	-
		0.00000	-14.00000	15.00000	0.0	1.0050	0.15745	-	-
		1.00000	-14.00000	15.00000	0.0	1.5000	0.23501	-	-
		2.00000	-14.00000	15.00000	0.0	1.5000	0.23501	-	-
		3.00000	-14.00000	15.00000	0.0	1.5000	0.23501	-	-
		4.00000	-14.00000	15.00000	0.0	1.5000	0.23501	-	-
		5.00000	-14.00000	15.00000	0.0	1.5000	0.23501	-	-
		6.00000	-14.00000	15.00000	0.0	1.5000	0.23501	-	-
		7.00000	-14.00000	15.00000	0.0	1.5000	0.23501	-	-
		8.00000	-14.00000	15.00000	0.0	1.5000	0.23501	-	-
		9.00000	-14.00000	15.00000	0.0	1.5230	0.24072	-	-
		10.00000	-14.00000	15.00000	0.0	1.6009	0.25260	-	-
		11.00000	-14.00000	15.00000	0.0	1.6854	0.26240	-	-
		12.00000	-14.00000	15.00000	0.0	1.7760	0.27211	-	-
		13.00000	-14.00000	15.00000	0.0	1.8715	0.28319	-	-
		14.00000	-14.00000	15.00000	0.0	1.9708	0.29648	-	-
		15.00000	-14.00000	15.00000	0.0	2.0718	0.31214	-	-
		16.00000	-14.00000	15.00000	0.0	2.1723	0.32968	-	-
		17.00000	-14.00000	15.00000	0.0	2.2693	0.34803	-	-
		18.00000	-14.00000	15.00000	0.0	2.3595	0.36572	-	-
		19.00000	-14.00000	15.00000	0.0	2.4393	0.38106	-	-
		20.00000	-14.00000	15.00000	0.0	2.0100	0.31491	-	-
		21.00000	-14.00000	15.00000	0.0	2.4393	0.38106	-	-
		22.00000	-14.00000	15.00000	0.0	2.3595	0.36572	-	-
		23.00000	-14.00000	15.00000	0.0	2.2693	0.34803	-	-
		24.00000	-14.00000	15.00000	0.0	2.1723	0.32968	-	-
		25.00000	-14.00000	15.00000	0.0	2.0718	0.31214	-	-
		26.00000	-14.00000	15.00000	0.0	1.9708	0.29648	-	-
		27.00000	-14.00000	15.00000	0.0	1.8715	0.28319	-	-
		28.00000	-14.00000	15.00000	0.0	1.7760	0.27211	-	-
		29.00000	-14.00000	15.00000	0.0	1.6854	0.26240	-	-
		30.00000	-14.00000	15.00000	0.0	1.6009	0.25260	-	-
		31.00000	-14.00000	15.00000	0.0	1.5230	0.24072	-	-
		32.00000	-14.00000	15.00000	0.0	1.5000	0.23501	-	-
		33.00000	-14.00000	15.00000	0.0	1.5000	0.23501	-	-
		34.00000	-14.00000	15.00000	0.0	1.0050	0.15745	-	-
		35.00000	-14.00000	15.00000	0.0	0.93935	0.14605	-	-
		36.00000	-14.00000	15.00000	0.0	0.85951	0.13071	-	-
		37.00000	-14.00000	15.00000	0.0	0.76927	0.11302	-	-
		38.00000	-14.00000	15.00000	0.0	0.67227	0.094668	-	-
		39.00000	-14.00000	15.00000	0.0	0.57182	0.077129	-	-
		40.00000	-14.00000	15.00000	0.0	0.47079	0.061471	-	-
		41.00000	-14.00000	15.00000	0.0	0.37155	0.048185	-	-
		42.00000	-14.00000	15.00000	0.0	0.27596	0.037103	-	-
		43.00000	-14.00000	15.00000	0.0	0.18543	0.027390	-	-
		44.00000	-14.00000	15.00000	0.0	0.10090	0.017588	-	-
		45.00000	-14.00000	15.00000	0.0	0.023011	0.0057106	-	-
		46.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-14.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	-13.00000	15.00000	0.027422	0.031364	0.013024	-	-
		-11.00000	-13.00000	15.00000	0.081362	0.10718	0.030971	-	-
		-10.00000	-13.00000	15.00000	0.12513	0.19147	0.044446	-	-
		-9.00000	-13.00000	15.00000	0.15820	0.28412	0.057756	-	-
		-8.00000	-13.00000	15.00000	0.18014	0.38470	0.073621	-	-
		-7.00000	-13.00000	15.00000	0.19075	0.49239	0.10257	-	-
		-6.00000	-13.00000	15.00000	0.19006	0.60585	0.14041	-	-
		-5.00000	-13.00000	15.00000	0.17845	0.72319	0.17479	-	-
		-4.00000	-13.00000	15.00000	0.15672	0.84184	0.20445	-	-
		-3.00000	-13.00000	15.00000	0.12611	0.95854	0.22791	-	-
		-2.00000	-13.00000	15.00000	0.088319	1.0694	0.24380	-	-
		-1.00000	-13.00000	15.00000	0.045468	1.1702	0.25112	-	-
		0.00000	-13.00000	15.00000	0.0	1.2562	0.24949	-	-
		1.00000	-13.00000	15.00000	0.0	1.8750	0.37237	-	-
		2.00000	-13.00000	15.00000	0.0	1.8750	0.37237	-	-
		3.00000	-13.00000	15.00000	0.0	1.8750	0.37237	-	-
		4.00000	-13.00000	15.00000	0.0	1.8750	0.37237	-	-
		5.00000	-13.00000	15.00000	0.0	1.8750	0.37237	-	-
		6.00000	-13.00000	15.00000	0.0	1.8750	0.37237	-	-
		7.00000	-13.00000	15.00000	0.0	1.8750	0.37237	-	-
		8.00000	-13.00000	15.00000	0.0	1.9064	0.37932	-	-
		9.00000	-13.00000	15.00000	0.0	1.9822	0.38998	-	-
		10.00000	-13.00000	15.00000	0.0	2.0665	0.39925	-	-
		11.00000	-13.00000	15.00000	0.0	2.1591	0.40947	-	-
		12.00000	-13.00000	15.00000	0.0	2.2597	0.42252	-	-
		13.00000	-13.00000	15.00000	0.0	2.3674	0.43964	-	-
		14.00000	-13.00000	15.00000	0.0	2.4809	0.46139	-	-
		15.00000	-13.00000	15.00000	0.0	2.5982	0.48745	-	-
		16.00000	-13.00000	15.00000	0.0	2.7168	0.51673	-	-
		17.00000	-13.00000	15.00000	0.0	2.8335	0.54734	-	-
		18.00000	-13.00000	15.00000	0.0	2.9444	0.57686	-	-
		19.00000	-13.00000	15.00000	0.0	3.0452	0.60257	-	-
		20.00000	-13.00000	15.00000	0.0	2.5125	0.49898	-	-
		21.00000	-13.00000	15.00000	0.0	3.0452	0.60257	-	-
		22.00000	-13.00000	15.00000	0.0	2.9444	0.57686	-	-
		23.00000	-13.00000	15.00000	0.0	2.8335	0.54734	-	-
		24.00000	-13.00000	15.00000	0.0	2.7168	0.51673	-	-
		25.00000	-13.00000	15.00000	0.0	2.5982	0.48745	-	-
		26.00000	-13.00000	15.00000	0.0	2.4809	0.46139	-	-
		27.00000	-13.00000	15.00000	0.0	2.3674	0.43964	-	-
		28.00000	-13.00000	15.00000	0.0	2.2597	0.42252	-	-
		29.00000	-13.00000	15.00000	0.0	2.1591	0.40947	-	-
		30.00000	-13.00000	15.00000	0.0	2.0665	0.39925	-	-
		31.00000	-13.00000	15.00000	0.0	1.9822	0.38998	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		32.00000	-13.00000	15.00000	0.0	1.9064	0.37932	-	-
		33.00000	-13.00000	15.00000	0.0	1.8750	0.37237	-	-
		34.00000	-13.00000	15.00000	0.0	1.2562	0.24949	-	-
		35.00000	-13.00000	15.00000	0.0	1.1702	0.23020	-	-
		36.00000	-13.00000	15.00000	0.0	1.0694	0.20448	-	-
		37.00000	-13.00000	15.00000	0.0	0.95954	0.17496	-	-
		38.00000	-13.00000	15.00000	0.0	0.84184	0.14435	-	-
		39.00000	-13.00000	15.00000	0.0	0.72319	0.11508	-	-
		40.00000	-13.00000	15.00000	0.0	0.60585	0.089013	-	-
		41.00000	-13.00000	15.00000	0.0	0.49239	0.067270	-	-
		42.00000	-13.00000	15.00000	0.0	0.38470	0.050141	-	-
		43.00000	-13.00000	15.00000	0.0	0.28412	0.037099	-	-
		44.00000	-13.00000	15.00000	0.0	0.19147	0.026879	-	-
		45.00000	-13.00000	15.00000	0.0	0.10718	0.017606	-	-
		46.00000	-13.00000	15.00000	0.0	0.031364	0.0069484	-	-
		47.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-13.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	-12.00000	15.00000	0.031364	0.027422	0.013024	-	-
		-12.00000	-12.00000	15.00000	0.096510	0.096510	0.031134	-	-
		-11.00000	-12.00000	15.00000	0.15243	0.17636	0.045193	-	-
		-10.00000	-12.00000	15.00000	0.19733	0.26634	0.060087	-	-
		-9.00000	-12.00000	15.00000	0.23044	0.36662	0.079371	-	-
		-8.00000	-12.00000	15.00000	0.25112	0.47704	0.13200	-	-
		-7.00000	-12.00000	15.00000	0.25892	0.59704	0.18383	-	-
		-6.00000	-12.00000	15.00000	0.25367	0.72546	0.23393	-	-
		-5.00000	-12.00000	15.00000	0.23562	0.86040	0.28050	-	-
		-4.00000	-12.00000	15.00000	0.20551	0.99916	0.32127	-	-
		-3.00000	-12.00000	15.00000	0.16465	1.1381	0.35381	-	-
		-2.00000	-12.00000	15.00000	0.11502	1.2727	0.37589	-	-
		-1.00000	-12.00000	15.00000	0.059133	1.3977	0.38582	-	-
		0.00000	-12.00000	15.00000	0.0	1.5075	0.38276	-	-
		1.00000	-12.00000	15.00000	0.0	2.2500	0.57129	-	-
		2.00000	-12.00000	15.00000	0.0	2.2500	0.57129	-	-
		3.00000	-12.00000	15.00000	0.0	2.2500	0.57129	-	-
		4.00000	-12.00000	15.00000	0.0	2.2500	0.57129	-	-
		5.00000	-12.00000	15.00000	0.0	2.2500	0.57129	-	-
		6.00000	-12.00000	15.00000	0.0	2.2500	0.57129	-	-
		7.00000	-12.00000	15.00000	0.0	2.2774	0.57737	-	-
		8.00000	-12.00000	15.00000	0.0	2.3465	0.58686	-	-
		9.00000	-12.00000	15.00000	0.0	2.4264	0.59553	-	-
		10.00000	-12.00000	15.00000	0.0	2.5163	0.60581	-	-
		11.00000	-12.00000	15.00000	0.0	2.6166	0.62003	-	-
		12.00000	-12.00000	15.00000	0.0	2.7270	0.64005	-	-
		13.00000	-12.00000	15.00000	0.0	2.8470	0.66705	-	-
		14.00000	-12.00000	15.00000	0.0	2.9755	0.70132	-	-
		15.00000	-12.00000	15.00000	0.0	3.1104	0.74217	-	-
		16.00000	-12.00000	15.00000	0.0	3.2492	0.78783	-	-
		17.00000	-12.00000	15.00000	0.0	3.3881	0.83558	-	-
		18.00000	-12.00000	15.00000	0.0	3.5227	0.88186	-	-
		19.00000	-12.00000	15.00000	0.0	3.6477	0.92268	-	-
		20.00000	-12.00000	15.00000	0.0	3.0150	0.76553	-	-
		21.00000	-12.00000	15.00000	0.0	3.6477	0.92268	-	-
		22.00000	-12.00000	15.00000	0.0	3.5227	0.88186	-	-
		23.00000	-12.00000	15.00000	0.0	3.3881	0.83558	-	-
		24.00000	-12.00000	15.00000	0.0	3.2492	0.78783	-	-
		25.00000	-12.00000	15.00000	0.0	3.1104	0.74217	-	-
		26.00000	-12.00000	15.00000	0.0	2.9755	0.70132	-	-
		27.00000	-12.00000	15.00000	0.0	2.8470	0.66705	-	-
		28.00000	-12.00000	15.00000	0.0	2.7270	0.64005	-	-
		29.00000	-12.00000	15.00000	0.0	2.6166	0.62003	-	-
		30.00000	-12.00000	15.00000	0.0	2.5163	0.60581	-	-
		31.00000	-12.00000	15.00000	0.0	2.4264	0.59553	-	-
		32.00000	-12.00000	15.00000	0.0	2.3465	0.58686	-	-
		33.00000	-12.00000	15.00000	0.0	2.2774	0.57737	-	-
		34.00000	-12.00000	15.00000	0.0	1.5075	0.38276	-	-
		35.00000	-12.00000	15.00000	0.0	1.3977	0.35139	-	-
		36.00000	-12.00000	15.00000	0.0	1.2727	0.31057	-	-
		37.00000	-12.00000	15.00000	0.0	1.1381	0.26429	-	-
		38.00000	-12.00000	15.00000	0.0	0.99916	0.21654	-	-
		39.00000	-12.00000	15.00000	0.0	0.86040	0.17088	-	-
		40.00000	-12.00000	15.00000	0.0	0.72546	0.13003	-	-
		41.00000	-12.00000	15.00000	0.0	0.59704	0.095763	-	-
		42.00000	-12.00000	15.00000	0.0	0.47704	0.068764	-	-
		43.00000	-12.00000	15.00000	0.0	0.36662	0.048737	-	-
		44.00000	-12.00000	15.00000	0.0	0.26634	0.034515	-	-
		45.00000	-12.00000	15.00000	0.0	0.17636	0.024241	-	-
		46.00000	-12.00000	15.00000	0.0	0.096510	0.015567	-	-
		47.00000	-12.00000	15.00000	0.0	0.027422	0.0060752	-	-
		48.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-12.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	-11.00000	15.00000	0.023011	0.015542	0.0095675	-	-
		-13.00000	-11.00000	15.00000	0.10718	0.081362	0.030971	-	-
		-12.00000	-11.00000	15.00000	0.17636	0.15243	0.045193	-	-
		-11.00000	-11.00000	15.00000	0.22909	0.22909	0.059326	-	-
		-10.00000	-11.00000	15.00000	0.27601	0.32371	0.08755	-	-
		-9.00000	-11.00000	15.00000	0.31000	0.43076	0.15403	-	-
		-8.00000	-11.00000	15.00000	0.33014	0.55049	0.22098	-	-
		-7.00000	-11.00000	15.00000	0.33564	0.68272	0.28879	-	-
		-6.00000	-11.00000	15.00000	0.32604	0.82660	0.35544	-	-
		-5.00000	-11.00000	15.00000	0.30322	0.98042	0.41909	-	-
		-4.00000	-11.00000	15.00000	0.26208	1.1414	0.47335	-	-
		-3.00000	-11.00000	15.00000	0.20970	1.3055	0.51782	-	-
		-2.00000	-11.00000	15.00000	0.14787	1.4675	0.54837	-	-
		-1.00000	-11.00000	15.00000	0.077372	1.6209	0.56257	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		0.00000	-11.00000	15.00000	0.0	1.7587	0.55906	-	-
		1.00000	-11.00000	15.00000	0.0	2.6250	0.83442	-	-
		2.00000	-11.00000	15.00000	0.0	2.6250	0.83442	-	-
		3.00000	-11.00000	15.00000	0.0	2.6250	0.83442	-	-
		4.00000	-11.00000	15.00000	0.0	2.6250	0.83442	-	-
		5.00000	-11.00000	15.00000	0.0	2.6250	0.83442	-	-
		6.00000	-11.00000	15.00000	0.0	2.6405	0.83828	-	-
		7.00000	-11.00000	15.00000	0.0	2.7064	0.84778	-	-
		8.00000	-11.00000	15.00000	0.0	2.7774	0.85537	-	-
		9.00000	-11.00000	15.00000	0.0	2.8541	0.86408	-	-
		10.00000	-11.00000	15.00000	0.0	2.9487	0.87808	-	-
		11.00000	-11.00000	15.00000	0.0	3.0558	0.89900	-	-
		12.00000	-11.00000	15.00000	0.0	3.1755	0.92881	-	-
		13.00000	-11.00000	15.00000	0.0	3.3077	0.96872	-	-
		14.00000	-11.00000	15.00000	0.0	3.4516	1.0189	-	-
		15.00000	-11.00000	15.00000	0.0	3.6054	1.0785	-	-
		16.00000	-11.00000	15.00000	0.0	3.7664	1.1450	-	-
		17.00000	-11.00000	15.00000	0.0	3.9305	1.2149	-	-
		18.00000	-11.00000	15.00000	0.0	4.0925	1.2833	-	-
		19.00000	-11.00000	15.00000	0.0	4.2459	1.3448	-	-
		20.00000	-11.00000	15.00000	0.0	3.5175	1.1181	-	-
		21.00000	-11.00000	15.00000	0.0	4.2459	1.3448	-	-
		22.00000	-11.00000	15.00000	0.0	4.0925	1.2833	-	-
		23.00000	-11.00000	15.00000	0.0	3.9305	1.2149	-	-
		24.00000	-11.00000	15.00000	0.0	3.7664	1.1450	-	-
		25.00000	-11.00000	15.00000	0.0	3.6054	1.0785	-	-
		26.00000	-11.00000	15.00000	0.0	3.4516	1.0189	-	-
		27.00000	-11.00000	15.00000	0.0	3.3077	0.96872	-	-
		28.00000	-11.00000	15.00000	0.0	3.1755	0.92881	-	-
		29.00000	-11.00000	15.00000	0.0	3.0558	0.89900	-	-
		30.00000	-11.00000	15.00000	0.0	2.9487	0.87808	-	-
		31.00000	-11.00000	15.00000	0.0	2.8541	0.86408	-	-
		32.00000	-11.00000	15.00000	0.0	2.7774	0.85537	-	-
		33.00000	-11.00000	15.00000	0.0	2.7064	0.84778	-	-
		34.00000	-11.00000	15.00000	0.0	1.7743	0.56292	-	-
		35.00000	-11.00000	15.00000	0.0	1.6209	0.51035	-	-
		36.00000	-11.00000	15.00000	0.0	1.4675	0.44891	-	-
		37.00000	-11.00000	15.00000	0.0	1.3055	0.38047	-	-
		38.00000	-11.00000	15.00000	0.0	1.1414	0.31058	-	-
		39.00000	-11.00000	15.00000	0.0	0.98042	0.24404	-	-
		40.00000	-11.00000	15.00000	0.0	0.8266	0.18451	-	-
		41.00000	-11.00000	15.00000	0.0	0.68272	0.13430	-	-
		42.00000	-11.00000	15.00000	0.0	0.55049	0.094395	-	-
		43.00000	-11.00000	15.00000	0.0	0.43076	0.064586	-	-
		44.00000	-11.00000	15.00000	0.0	0.32371	0.043663	-	-
		45.00000	-11.00000	15.00000	0.0	0.22909	0.029663	-	-
		46.00000	-11.00000	15.00000	0.0	0.15243	0.020952	-	-
		47.00000	-11.00000	15.00000	0.0	0.081362	0.013365	-	-
		48.00000	-11.00000	15.00000	0.0	0.015542	0.0038569	-	-
		49.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-11.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	-10.00000	15.00000	0.10090	0.058885	0.027852	-	-
		-13.00000	-10.00000	15.00000	0.19147	0.12513	0.044446	-	-
		-12.00000	-10.00000	15.00000	0.26634	0.19733	0.060087	-	-
		-11.00000	-10.00000	15.00000	0.32371	0.27601	0.090114	-	-
		-10.00000	-10.00000	15.00000	0.36167	0.36167	0.16362	-	-
		-9.00000	-10.00000	15.00000	0.39769	0.47416	0.24505	-	-
		-8.00000	-10.00000	15.00000	0.41831	0.60217	0.33048	-	-
		-7.00000	-10.00000	15.00000	0.42234	0.74607	0.41807	-	-
		-6.00000	-10.00000	15.00000	0.40886	0.90557	0.50476	-	-
		-5.00000	-10.00000	15.00000	0.38120	1.0794	0.58657	-	-
		-4.00000	-10.00000	15.00000	0.34892	1.2648	0.65907	-	-
		-3.00000	-10.00000	15.00000	0.28946	1.4575	0.71777	-	-
		-2.00000	-10.00000	15.00000	0.20708	1.6514	0.75863	-	-
		-1.00000	-10.00000	15.00000	0.10797	1.8386	0.77851	-	-
		0.00000	-10.00000	15.00000	0.0	2.0100	0.77550	-	-
		1.00000	-10.00000	15.00000	0.0	3.0000	1.1575	-	-
		2.00000	-10.00000	15.00000	0.0	3.0000	1.1575	-	-
		3.00000	-10.00000	15.00000	0.0	3.0000	1.1575	-	-
		4.00000	-10.00000	15.00000	0.0	3.0000	1.1575	-	-
		5.00000	-10.00000	15.00000	0.0	3.0000	1.1575	-	-
		6.00000	-10.00000	15.00000	0.0	3.0589	1.1677	-	-
		7.00000	-10.00000	15.00000	0.0	3.1251	1.1750	-	-
		8.00000	-10.00000	15.00000	0.0	3.1973	1.1830	-	-
		9.00000	-10.00000	15.00000	0.0	3.2760	1.1947	-	-
		10.00000	-10.00000	15.00000	0.0	3.3617	1.2125	-	-
		11.00000	-10.00000	15.00000	0.0	3.4742	1.2417	-	-
		12.00000	-10.00000	15.00000	0.0	3.6022	1.2830	-	-
		13.00000	-10.00000	15.00000	0.0	3.7461	1.3377	-	-
		14.00000	-10.00000	15.00000	0.0	3.9056	1.4063	-	-
		15.00000	-10.00000	15.00000	0.0	4.0794	1.4876	-	-
		16.00000	-10.00000	15.00000	0.0	4.2648	1.5790	-	-
		17.00000	-10.00000	15.00000	0.0	4.4575	1.6759	-	-
		18.00000	-10.00000	15.00000	0.0	4.6514	1.7722	-	-
		19.00000	-10.00000	15.00000	0.0	4.8386	1.8605	-	-
		20.00000	-10.00000	15.00000	0.0	4.0200	1.5510	-	-
		21.00000	-10.00000	15.00000	0.0	4.8386	1.8605	-	-
		22.00000	-10.00000	15.00000	0.0	4.6514	1.7722	-	-
		23.00000	-10.00000	15.00000	0.0	4.4575	1.6759	-	-
		24.00000	-10.00000	15.00000	0.0	4.2648	1.5790	-	-
		25.00000	-10.00000	15.00000	0.0	4.0794	1.4876	-	-
		26.00000	-10.00000	15.00000	0.0	3.9056	1.4063	-	-
		27.00000	-10.00000	15.00000	0.0	3.7461	1.3377	-	-
		28.00000	-10.00000	15.00000	0.0	3.6022	1.2830	-	-
		29.00000	-10.00000	15.00000	0.0	3.4742	1.2417	-	-
		30.00000	-10.00000	15.00000	0.0	3.3617	1.2125	-	-
		31.00000	-10.00000	15.00000	0.0	3.2760	1.1947	-	-
		32.00000	-10.00000	15.00000	0.0	3.1973	1.1830	-	-
		33.00000	-10.00000	15.00000	0.0	3.1251	1.1750	-	-
		34.00000	-10.00000	15.00000	0.0	3.0589	1.1677	-	-
		35.00000	-10.00000	15.00000	0.0	1.8386	0.70308	-	-
		36.00000	-10.00000	15.00000	0.0	1.6514	0.61477	-	-
		37.00000	-10.00000	15.00000	0.0	1.4575	0.51846	-	-
		38.00000	-10.00000	15.00000	0.0	1.2648	0.42155	-	-
		39.00000	-10.00000	15.00000	0.0	1.0794	0.33019	-	-
		40.00000	-10.00000	15.00000	0.0	0.90557	0.24885	-	-
		41.00000	-10.00000	15.00000	0.0	0.74607	0.18026	-	-
		42.00000	-10.00000	15.00000	0.0	0.60217	0.12550	-	-
		43.00000	-10.00000	15.00000	0.0	0.47416	0.084229	-	-
		44.00000	-10.00000	15.00000	0.0	0.36167	0.055002	-	-
		45.00000	-10.00000	15.00000	0.0	0.27601	0.037228	-	-
		46.00000	-10.00000	15.00000	0.0	0.19733	0.025572	-	-
		47.00000	-10.00000	15.00000	0.0	0.12513	0.017567	-	-
		48.00000	-10.00000	15.00000	0.0	0.058885	0.010264	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		49.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-10.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	-9.00000	15.00000	0.072459	0.032715	0.020669	-	-
		-14.00000	-9.00000	15.00000	0.18543	0.092524	0.041057	-	-
		-13.00000	-9.00000	15.00000	0.28412	0.15820	0.057756	-	-
		-12.00000	-9.00000	15.00000	0.36662	0.23044	0.079371	-	-
		-11.00000	-9.00000	15.00000	0.43076	0.31000	0.17077	-	-
		-10.00000	-9.00000	15.00000	0.47416	0.39769	0.26239	-	-
		-9.00000	-9.00000	15.00000	0.49426	0.49426	0.35209	-	-
		-8.00000	-9.00000	15.00000	0.51681	0.62881	0.45908	-	-
		-7.00000	-9.00000	15.00000	0.520664	0.78313	0.56925	-	-
		-6.00000	-9.00000	15.00000	0.53291	0.95779	0.67845	-	-
		-5.00000	-9.00000	15.00000	0.52055	1.1523	0.78159	-	-
		-4.00000	-9.00000	15.00000	0.47247	1.3643	0.87311	-	-
		-3.00000	-9.00000	15.00000	0.39047	1.5896	0.94750	-	-
		-2.00000	-9.00000	15.00000	0.27898	1.8211	0.9994	-	-
		-1.00000	-9.00000	15.00000	0.14542	2.0488	1.0263	-	-
		0.00000	-9.00000	15.00000	0.0	2.2612	1.0245	-	-
		1.00000	-9.00000	15.00000	0.0	3.3750	1.5291	-	-
		2.00000	-9.00000	15.00000	0.0	3.3750	1.5291	-	-
		3.00000	-9.00000	15.00000	0.0	3.3750	1.5291	-	-
		4.00000	-9.00000	15.00000	0.0	3.3750	1.5291	-	-
		5.00000	-9.00000	15.00000	0.0	3.4077	1.5356	-	-
		6.00000	-9.00000	15.00000	0.0	3.4675	1.5428	-	-
		7.00000	-9.00000	15.00000	0.0	3.5332	1.5498	-	-
		8.00000	-9.00000	15.00000	0.0	3.6054	1.5598	-	-
		9.00000	-9.00000	15.00000	0.0	3.6850	1.5756	-	-
		10.00000	-9.00000	15.00000	0.0	3.7727	1.5998	-	-
		11.00000	-9.00000	15.00000	0.0	3.8693	1.6342	-	-
		12.00000	-9.00000	15.00000	0.0	4.0038	1.6872	-	-
		13.00000	-9.00000	15.00000	0.0	4.1581	1.7574	-	-
		14.00000	-9.00000	15.00000	0.0	4.3328	1.8454	-	-
		15.00000	-9.00000	15.00000	0.0	4.5273	1.9504	-	-
		16.00000	-9.00000	15.00000	0.0	4.7393	2.0696	-	-
		17.00000	-9.00000	15.00000	0.0	4.9646	2.1979	-	-
		18.00000	-9.00000	15.00000	0.0	5.1961	2.3279	-	-
		19.00000	-9.00000	15.00000	0.0	5.4238	2.4500	-	-
		20.00000	-9.00000	15.00000	0.0	5.4225	2.0490	-	-
		21.00000	-9.00000	15.00000	0.0	5.4238	2.4500	-	-
		22.00000	-9.00000	15.00000	0.0	5.1961	2.3279	-	-
		23.00000	-9.00000	15.00000	0.0	4.9646	2.1979	-	-
		24.00000	-9.00000	15.00000	0.0	4.7393	2.0696	-	-
		25.00000	-9.00000	15.00000	0.0	4.5273	1.9504	-	-
		26.00000	-9.00000	15.00000	0.0	4.3328	1.8454	-	-
		27.00000	-9.00000	15.00000	0.0	4.1581	1.7574	-	-
		28.00000	-9.00000	15.00000	0.0	4.0038	1.6872	-	-
		29.00000	-9.00000	15.00000	0.0	3.8693	1.6342	-	-
		30.00000	-9.00000	15.00000	0.0	3.7727	1.5998	-	-
		31.00000	-9.00000	15.00000	0.0	3.6850	1.5756	-	-
		32.00000	-9.00000	15.00000	0.0	3.6054	1.5598	-	-
		33.00000	-9.00000	15.00000	0.0	3.5332	1.5498	-	-
		34.00000	-9.00000	15.00000	0.0	2.3538	1.0382	-	-
		35.00000	-9.00000	15.00000	0.0	2.0816	0.92728	-	-
		36.00000	-9.00000	15.00000	0.0	1.8211	0.79873	-	-
		37.00000	-9.00000	15.00000	0.0	1.5896	0.66878	-	-
		38.00000	-9.00000	15.00000	0.0	1.3643	0.54048	-	-
		39.00000	-9.00000	15.00000	0.0	1.1523	0.42126	-	-
		40.00000	-9.00000	15.00000	0.0	0.95779	0.31623	-	-
		41.00000	-9.00000	15.00000	0.0	0.78313	0.22823	-	-
		42.00000	-9.00000	15.00000	0.0	0.62881	0.15808	-	-
		43.00000	-9.00000	15.00000	0.0	0.49426	0.10504	-	-
		44.00000	-9.00000	15.00000	0.0	0.39769	0.070644	-	-
		45.00000	-9.00000	15.00000	0.0	0.31000	0.046480	-	-
		46.00000	-9.00000	15.00000	0.0	0.23044	0.030634	-	-
		47.00000	-9.00000	15.00000	0.0	0.15820	0.020657	-	-
		48.00000	-9.00000	15.00000	0.0	0.092524	0.013667	-	-
		49.00000	-9.00000	15.00000	0.0	0.032715	0.0064293	-	-
		50.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-9.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-8.00000	15.00000	0.017640	0.0061684	0.0069924	-	-
		-15.00000	-8.00000	15.00000	0.15300	0.058484	0.034421	-	-
		-14.00000	-8.00000	15.00000	0.27596	0.11622	0.052729	-	-
		-13.00000	-8.00000	15.00000	0.38470	0.18014	0.073621	-	-
		-12.00000	-8.00000	15.00000	0.47704	0.25112	0.15632	-	-
		-11.00000	-8.00000	15.00000	0.55049	0.33014	0.26769	-	-
		-10.00000	-8.00000	15.00000	0.60217	0.41831	0.38225	-	-
		-9.00000	-8.00000	15.00000	0.62881	0.51681	0.49615	-	-
		-8.00000	-8.00000	15.00000	0.62684	0.62684	0.60293	-	-
		-7.00000	-8.00000	15.00000	0.68243	0.78931	0.73730	-	-
		-6.00000	-8.00000	15.00000	0.70449	0.97764	0.87032	-	-
		-5.00000	-8.00000	15.00000	0.68477	1.1927	0.99576	-	-
		-4.00000	-8.00000	15.00000	0.62137	1.4333	1.1069	-	-
		-3.00000	-8.00000	15.00000	0.51461	1.6955	1.1973	-	-
		-2.00000	-8.00000	15.00000	0.36880	1.9715	1.2611	-	-
		-1.00000	-8.00000	15.00000	0.19270	2.2490	1.2942	-	-
		0.00000	-8.00000	15.00000	0.0	2.5125	1.2939	-	-
		1.00000	-8.00000	15.00000	0.0	3.7500	1.9312	-	-
		2.00000	-8.00000	15.00000	0.0	3.7500	1.9312	-	-
		3.00000	-8.00000	15.00000	0.0	3.7500	1.9312	-	-
		4.00000	-8.00000	15.00000	0.0	3.7562	1.9330	-	-
		5.00000	-8.00000	15.00000	0.0	3.8085	1.9407	-	-
		6.00000	-8.00000	15.00000	0.0	3.8662	1.9468	-	-
		7.00000	-8.00000	15.00000	0.0	3.9301	1.9547	-	-
		8.00000	-8.00000	15.00000	0.0	4.0011	1.9674	-	-
		9.00000	-8.00000	15.00000	0.0	4.0801	1.9878	-	-
		10.00000	-8.00000	15.00000	0.0	4.1683	2.0184	-	-
		11.00000	-8.00000	15.00000	0.0	4.2668	2.0611	-	-
		12.00000	-8.00000	15.00000	0.0	4.3768	2.1175	-	-
		13.00000	-8.00000	15.00000	0.0	4.5393	2.2018	-	-
		14.00000	-8.00000	15.00000	0.0	4.7276	2.3084	-	-
		15.00000	-8.00000	15.00000	0.0	4.9427	2.4372	-	-
		16.00000	-8.00000	15.00000	0.0	5.1833	2.5858	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		17.00000	-8.00000	15.00000	0.0	5.4455	2.7489	-	-
		18.00000	-8.00000	15.00000	0.0	5.7215	2.9179	-	-
		19.00000	-8.00000	15.00000	0.0	5.9990	3.0813	-	-
		20.00000	-8.00000	15.00000	0.0	5.0250	2.5878	-	-
		21.00000	-8.00000	15.00000	0.0	5.9990	3.0813	-	-
		22.00000	-8.00000	15.00000	0.0	5.7215	2.9179	-	-
		23.00000	-8.00000	15.00000	0.0	5.4455	2.7489	-	-
		24.00000	-8.00000	15.00000	0.0	5.1833	2.5858	-	-
		25.00000	-8.00000	15.00000	0.0	4.9427	2.4372	-	-
		26.00000	-8.00000	15.00000	0.0	4.7276	2.3084	-	-
		27.00000	-8.00000	15.00000	0.0	4.5393	2.2018	-	-
		28.00000	-8.00000	15.00000	0.0	4.3768	2.1175	-	-
		29.00000	-8.00000	15.00000	0.0	4.2668	2.0611	-	-
		30.00000	-8.00000	15.00000	0.0	4.1683	2.0184	-	-
		31.00000	-8.00000	15.00000	0.0	4.0801	1.9878	-	-
		32.00000	-8.00000	15.00000	0.0	4.0011	1.9674	-	-
		33.00000	-8.00000	15.00000	0.0	3.9301	1.9547	-	-
		34.00000	-8.00000	15.00000	0.0	2.6287	1.3095	-	-
		35.00000	-8.00000	15.00000	0.0	2.3075	1.1596	-	-
		36.00000	-8.00000	15.00000	0.0	1.9776	0.98852	-	-
		37.00000	-8.00000	15.00000	0.0	1.6955	0.81766	-	-
		38.00000	-8.00000	15.00000	0.0	1.4333	0.65459	-	-
		39.00000	-8.00000	15.00000	0.0	1.1927	0.50601	-	-
		40.00000	-8.00000	15.00000	0.0	0.97764	0.37719	-	-
		41.00000	-8.00000	15.00000	0.0	0.78931	0.27057	-	-
		42.00000	-8.00000	15.00000	0.0	0.62684	0.18627	-	-
		43.00000	-8.00000	15.00000	0.0	0.51681	0.12993	-	-
		44.00000	-8.00000	15.00000	0.0	0.41831	0.087184	-	-
		45.00000	-8.00000	15.00000	0.0	0.33014	0.056610	-	-
		46.00000	-8.00000	15.00000	0.0	0.25112	0.036198	-	-
		47.00000	-8.00000	15.00000	0.0	0.18014	0.023479	-	-
		48.00000	-8.00000	15.00000	0.0	0.11622	0.015626	-	-
		49.00000	-8.00000	15.00000	0.0	0.058484	0.0095190	-	-
		50.00000	-8.00000	15.00000	0.0	0.0061684	0.0018116	-	-
		51.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-8.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-7.00000	15.00000	0.090299	0.026374	0.022616	-	-
		-15.00000	-7.00000	15.00000	0.23687	0.075418	0.045197	-	-
		-14.00000	-7.00000	15.00000	0.37155	0.12992	0.05034	-	-
		-13.00000	-7.00000	15.00000	0.49239	0.19075	0.11719	-	-
		-12.00000	-7.00000	15.00000	0.59704	0.25892	0.24462	-	-
		-11.00000	-7.00000	15.00000	0.68272	0.33564	0.38027	-	-
		-10.00000	-7.00000	15.00000	0.74607	0.42234	0.52213	-	-
		-9.00000	-7.00000	15.00000	0.78913	0.52064	0.65466	-	-
		-8.00000	-7.00000	15.00000	0.85180	0.63236	0.79934	-	-
		-7.00000	-7.00000	15.00000	0.87807	0.75942	0.91521	-	-
		-6.00000	-7.00000	15.00000	0.90406	0.95835	1.0721	-	-
		-5.00000	-7.00000	15.00000	0.88121	1.1923	1.2194	-	-
		-4.00000	-7.00000	15.00000	0.80445	1.4623	1.3493	-	-
		-3.00000	-7.00000	15.00000	0.67128	1.7659	1.4543	-	-
		-2.00000	-7.00000	15.00000	0.48443	2.0951	1.5281	-	-
		-1.00000	-7.00000	15.00000	0.25440	2.4349	1.5663	-	-
		0.00000	-7.00000	15.00000	0.0	2.7637	1.5668	-	-
		1.00000	-7.00000	15.00000	0.0	4.1250	2.3385	-	-
		2.00000	-7.00000	15.00000	0.0	4.1250	2.3385	-	-
		3.00000	-7.00000	15.00000	0.0	4.1250	2.3385	-	-
		4.00000	-7.00000	15.00000	0.0	4.1514	2.3436	-	-
		5.00000	-7.00000	15.00000	0.0	4.2004	2.3494	-	-
		6.00000	-7.00000	15.00000	0.0	4.2549	2.3553	-	-
		7.00000	-7.00000	15.00000	0.0	4.3157	2.3646	-	-
		8.00000	-7.00000	15.00000	0.0	4.3839	2.3800	-	-
		9.00000	-7.00000	15.00000	0.0	4.4606	2.4045	-	-
		10.00000	-7.00000	15.00000	0.0	4.5473	2.4405	-	-
		11.00000	-7.00000	15.00000	0.0	4.6456	2.4902	-	-
		12.00000	-7.00000	15.00000	0.0	4.7574	2.5553	-	-
		13.00000	-7.00000	15.00000	0.0	4.8844	2.6367	-	-
		14.00000	-7.00000	15.00000	0.0	5.0833	2.7588	-	-
		15.00000	-7.00000	15.00000	0.0	5.3173	2.9091	-	-
		16.00000	-7.00000	15.00000	0.0	5.5873	3.0863	-	-
		17.00000	-7.00000	15.00000	0.0	5.8909	3.2857	-	-
		18.00000	-7.00000	15.00000	0.0	6.2201	3.4984	-	-
		19.00000	-7.00000	15.00000	0.0	6.5599	3.7109	-	-
		20.00000	-7.00000	15.00000	0.0	5.5275	3.1336	-	-
		21.00000	-7.00000	15.00000	0.0	6.5599	3.7109	-	-
		22.00000	-7.00000	15.00000	0.0	6.2201	3.4984	-	-
		23.00000	-7.00000	15.00000	0.0	5.8909	3.2857	-	-
		24.00000	-7.00000	15.00000	0.0	5.5873	3.0863	-	-
		25.00000	-7.00000	15.00000	0.0	5.3173	2.9091	-	-
		26.00000	-7.00000	15.00000	0.0	5.0833	2.7588	-	-
		27.00000	-7.00000	15.00000	0.0	4.8844	2.6367	-	-
		28.00000	-7.00000	15.00000	0.0	4.7574	2.5553	-	-
		29.00000	-7.00000	15.00000	0.0	4.6456	2.4902	-	-
		30.00000	-7.00000	15.00000	0.0	4.5473	2.4405	-	-
		31.00000	-7.00000	15.00000	0.0	4.4606	2.4045	-	-
		32.00000	-7.00000	15.00000	0.0	4.3839	2.3800	-	-
		33.00000	-7.00000	15.00000	0.0	4.3157	2.3646	-	-
		34.00000	-7.00000	15.00000	0.0	2.8937	1.5836	-	-
		35.00000	-7.00000	15.00000	-0.015734	2.5103	1.3854	-	-
		36.00000	-7.00000	15.00000	-0.023914	2.1215	1.1684	-	-
		37.00000	-7.00000	15.00000	-0.018570	1.7659	0.95034	-	-
		38.00000	-7.00000	15.00000	0.0	1.4623	0.74778	-	-
		39.00000	-7.00000	15.00000	0.0	1.1923	0.57062	-	-
		40.00000	-7.00000	15.00000	0.0	0.95835	0.42034	-	-
		41.00000	-7.00000	15.00000	0.0	0.75942	0.29822	-	-
		42.00000	-7.00000	15.00000	0.0	0.63236	0.21677	-	-
		43.00000	-7.00000	15.00000	0.0	0.52064	0.15173	-	-
		44.00000	-7.00000	15.00000	0.0	0.42234	0.10205	-	-
		45.00000	-7.00000	15.00000	0.0	0.33564	0.066025	-	-
		46.00000	-7.00000	15.00000	0.0	0.25892	0.041529	-	-
		47.00000	-7.00000	15.00000	0.0	0.19075	0.026060	-	-
		48.00000	-7.00000	15.00000	0.0	0.12992	0.016849	-	-
		49.00000	-7.00000	15.00000	0.0	0.075418	0.010915	-	-
		50.00000	-7.00000	15.00000	0.0	0.026374	0.0051123	-	-
		51.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-7.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	-6.00000	15.00000	0.16352	0.039056	0.033915	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		-15.00000	-6.00000	15.00000	0.32269	0.083777	0.054869	-	-
		-14.00000	-6.00000	15.00000	0.47079	0.13380	0.078941	-	-
		-13.00000	-6.00000	15.00000	0.60585	0.19006	0.19177	-	-
		-12.00000	-6.00000	15.00000	0.72546	0.25367	0.34259	-	-
		-11.00000	-6.00000	15.00000	0.82660	0.32604	0.50613	-	-
		-10.00000	-6.00000	15.00000	0.90557	0.40886	0.67916	-	-
		-9.00000	-6.00000	15.00000	1.0124	0.50418	0.85456	-	-
		-8.00000	-6.00000	15.00000	1.1208	0.61450	1.0216	-	-
		-7.00000	-6.00000	15.00000	1.1666	0.74270	1.1667	-	-
		-6.00000	-6.00000	15.00000	1.1376	0.89200	1.2740	-	-
		-5.00000	-6.00000	15.00000	1.1189	1.1405	1.4414	-	-
		-4.00000	-6.00000	15.00000	1.0336	1.4385	1.5875	-	-
		-3.00000	-6.00000	15.00000	0.87383	1.7931	1.7050	-	-
		-2.00000	-6.00000	15.00000	0.63826	2.2507	1.7946	-	-
		-1.00000	-6.00000	15.00000	0.33809	2.7289	1.8424	-	-
		0.00000	-6.00000	15.00000	0.0	3.1825	1.8466	-	-
		1.00000	-6.00000	15.00000	0.0	4.7500	2.7564	-	-
		2.00000	-6.00000	15.00000	0.0	4.7500	2.7564	-	-
		3.00000	-6.00000	15.00000	0.0	4.7500	2.7564	-	-
		4.00000	-6.00000	15.00000	0.0	4.7891	2.7629	-	-
		5.00000	-6.00000	15.00000	0.0	4.8338	2.7677	-	-
		6.00000	-6.00000	15.00000	0.0	4.8838	2.7738	-	-
		7.00000	-6.00000	15.00000	0.0	4.9401	2.7843	-	-
		8.00000	-6.00000	15.00000	0.0	5.0037	2.8018	-	-
		9.00000	-6.00000	15.00000	0.0	5.0760	2.8292	-	-
		10.00000	-6.00000	15.00000	0.0	5.1589	2.8687	-	-
		11.00000	-6.00000	15.00000	0.0	5.2542	2.9228	-	-
		12.00000	-6.00000	15.00000	0.0	5.3645	2.9935	-	-
		13.00000	-6.00000	15.00000	0.0	5.4927	3.0821	-	-
		14.00000	-6.00000	15.00000	0.0	5.6420	3.1898	-	-
		15.00000	-6.00000	15.00000	0.0	5.8905	3.3560	-	-
		16.00000	-6.00000	15.00000	0.0	6.1885	3.5577	-	-
		17.00000	-6.00000	15.00000	0.0	6.5431	3.7933	-	-
		18.00000	-6.00000	15.00000	0.0	7.0007	4.0626	-	-
		19.00000	-6.00000	15.00000	0.0	7.4789	4.3403	-	-
		20.00000	-6.00000	15.00000	0.0	6.3650	3.6935	-	-
		21.00000	-6.00000	15.00000	0.0	7.4789	4.3403	-	-
		22.00000	-6.00000	15.00000	0.0	7.0007	4.0626	-	-
		23.00000	-6.00000	15.00000	0.0	6.5431	3.7933	-	-
		24.00000	-6.00000	15.00000	0.0	6.1885	3.5577	-	-
		25.00000	-6.00000	15.00000	0.0	5.8905	3.3560	-	-
		26.00000	-6.00000	15.00000	0.0	5.6420	3.1898	-	-
		27.00000	-6.00000	15.00000	0.0	5.4927	3.0821	-	-
		28.00000	-6.00000	15.00000	0.0	5.3645	2.9935	-	-
		29.00000	-6.00000	15.00000	0.0	5.2542	2.9228	-	-
		30.00000	-6.00000	15.00000	0.0	5.1589	2.8687	-	-
		31.00000	-6.00000	15.00000	0.0	5.0760	2.8292	-	-
		32.00000	-6.00000	15.00000	0.0	5.0037	2.8018	-	-
		33.00000	-6.00000	15.00000	0.0	4.9401	2.7843	-	-
		34.00000	-6.00000	15.00000	0.0	3.3163	1.8642	-	-
		35.00000	-6.00000	15.00000	-0.037795	2.8127	1.6015	-	-
		36.00000	-6.00000	15.00000	-0.064347	2.2898	1.3223	-	-
		37.00000	-6.00000	15.00000	-0.071493	1.7931	1.0464	-	-
		38.00000	-6.00000	15.00000	-0.055371	1.4385	0.80883	-	-
		39.00000	-6.00000	15.00000	-0.015736	1.1405	0.60287	-	-
		40.00000	-6.00000	15.00000	0.0	0.89200	0.43243	-	-
		41.00000	-6.00000	15.00000	0.0	0.74270	0.32576	-	-
		42.00000	-6.00000	15.00000	0.0	0.61450	0.23709	-	-
		43.00000	-6.00000	15.00000	0.0	0.50418	0.16647	-	-
		44.00000	-6.00000	15.00000	0.0	0.40886	0.11235	-	-
		45.00000	-6.00000	15.00000	0.0	0.32604	0.072779	-	-
		46.00000	-6.00000	15.00000	0.0	0.25367	0.045469	-	-
		47.00000	-6.00000	15.00000	0.0	0.19006	0.027923	-	-
		48.00000	-6.00000	15.00000	0.0	0.13380	0.017470	-	-
		49.00000	-6.00000	15.00000	0.0	0.083777	0.011309	-	-
		50.00000	-6.00000	15.00000	0.0	0.039056	0.0065385	-	-
		51.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-6.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-5.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-5.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-5.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-5.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-5.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-5.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-5.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-5.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-5.00000	15.00000	0.054279	0.0095590	0.014473	-	-
		-16.00000	-5.00000	15.00000	0.23565	0.044721	0.042659	-	-
		-15.00000	-5.00000	15.00000	0.40867	0.084056	0.064339	-	-
		-14.00000	-5.00000	15.00000	0.57182	0.12832	0.11073	-	-
		-13.00000	-5.00000	15.00000	0.72319	0.17845	0.27037	-	-
		-12.00000	-5.00000	15.00000	0.86040	0.23562	0.44711	-	-
		-11.00000	-5.00000	15.00000	0.98042	0.30132	0.64127	-	-
		-10.00000	-5.00000	15.00000	1.0902	0.37743	0.84867	-	-
		-9.00000	-5.00000	15.00000	1.2862	0.46635	1.0608	-	-
		-8.00000	-5.00000	15.00000	1.4299	0.57116	1.2650	-	-
		-7.00000	-5.00000	15.00000	1.5100	0.69577	1.4447	-	-
		-6.00000	-5.00000	15.00000	1.5192	0.84502	1.5804	-	-
		-5.00000	-5.00000	15.00000	1.4081	1.0246	1.6506	-	-
		-4.00000	-5.00000	15.00000	1.3247	1.3803	1.8146	-	-
		-3.00000	-5.00000	15.00000	1.1426	1.8554	1.9480	-	-
		-2.00000	-5.00000	15.00000	0.85071	2.4191	2.0432	-	-
		-1.00000	-5.00000	15.00000	0.457908	3.0413	2.0972	-	-
		0.00000	-5.00000	15.00000	0.0	3.6571	2.1056	-	-
		1.00000	-5.00000	15.00000	0.0	5.4583	3.1426	-	-
		2.00000	-5.00000	15.00000	0.0	5.4583	3.1426	-	-
		3.00000	-5.00000	15.00000	0.0	5.4679	3.1448	-	-
		4.00000	-5.00000	15.00000	0.0	5.5031	3.1494	-	-
		5.00000	-5.00000	15.00000	0.0	5.5424	3.1536	-	-
		6.00000	-5.00000	15.00000	0.0	5.5867	3.1599	-	-
		7.00000	-5.00000	15.00000	0.0	5.6368	3.1710	-	-
		8.00000	-5.00000	15.00000	0.0	5.6940	3.1894	-	-
		9.00000	-5.00000	15.00000	0.0	5.7597	3.2176	-	-
		10.00000	-5.00000	15.00000	0.0	5.8358	3.2581	-	-
		11.00000	-5.00000	15.00000	0.0	5.9247	3.3131	-	-
		12.00000	-5.00000	15.00000	0.0	6.0295	3.3850	-	-
		13.00000	-5.00000	15.00000	0.0	6.1541	3.4756	-	-
		14.00000	-5.00000	15.00000	0.0	6.3034	3.5869	-	-
		15.00000	-5.00000	15.00000	0.0	6.4829	3.7201	-	-
		16.00000	-5.00000	15.00000	0.0	6.8386	3.9434	-	-
		17.00000	-5.00000	15.00000	0.0	7.3137	4.2185	-	-
		18.00000	-5.00000	15.00000	0.0	7.8775	4.5407	-	-
		19.00000	-5.00000	15.00000	0.0	8.4996	4.8954	-	-
		20.00000	-5.00000	15.00000	0.0	7.3142	4.2111	-	-
		21.00000	-5.00000	15.00000	0.0	8.4996	4.8954	-	-
		22.00000	-5.00000	15.00000	0.0	7.8775	4.5407	-	-
		23.00000	-5.00000	15.00000	0.0	7.3137	4.2185	-	-
		24.00000	-5.00000	15.00000	0.0	6.8386	3.9434	-	-
		25.00000	-5.00000	15.00000	0.0	6.4829	3.7201	-	-
		26.00000	-5.00000	15.00000	0.0	6.3034	3.5869	-	-
		27.00000	-5.00000	15.00000	0.0	6.1541	3.4756	-	-
		28.00000	-5.00000	15.00000	0.0	6.0295	3.3850	-	-
		29.00000	-5.00000	15.00000	0.0	5.9247	3.3131	-	-
		30.00000	-5.00000	15.00000	0.0	5.8358	3.2581	-	-
		31.00000	-5.00000	15.00000	0.0	5.7597	3.2176	-	-
		32.00000	-5.00000	15.00000	0.0	5.6940	3.1894	-	-
		33.00000	-5.00000	15.00000	0.0	5.6368	3.1710	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		34.00000	-5.00000	15.00000	0.0	3.7854	2.1229	-	-
		35.00000	-5.00000	15.00000	-0.068354	3.1254	1.7834	-	-
		36.00000	-5.00000	15.00000	-0.11876	2.4639	1.4342	-	-
		37.00000	-5.00000	15.00000	-0.13992	1.8650	1.1050	-	-
		38.00000	-5.00000	15.00000	-0.12861	1.3803	0.81934	-	-
		39.00000	-5.00000	15.00000	-0.087087	1.0246	0.58896	-	-
		40.00000	-5.00000	15.00000	-0.021239	0.84502	0.44862	-	-
		41.00000	-5.00000	15.00000	0.0	0.69577	0.33300	-	-
		42.00000	-5.00000	15.00000	0.0	0.57116	0.24233	-	-
		43.00000	-5.00000	15.00000	0.0	0.46635	0.17049	-	-
		44.00000	-5.00000	15.00000	0.0	0.37743	0.11546	-	-
		45.00000	-5.00000	15.00000	0.0	0.30132	0.075005	-	-
		46.00000	-5.00000	15.00000	0.0	0.23562	0.046795	-	-
		47.00000	-5.00000	15.00000	0.0	0.17845	0.028396	-	-
		48.00000	-5.00000	15.00000	0.0	0.12832	0.017308	-	-
		49.00000	-5.00000	15.00000	0.0	0.084056	0.010976	-	-
		50.00000	-5.00000	15.00000	0.0	0.044721	0.0068043	-	-
		51.00000	-5.00000	15.00000	0.0	0.0095590	0.0021672	-	-
		52.00000	-5.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-5.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-5.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-5.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-4.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-4.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-4.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-4.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-4.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-4.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-4.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-4.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-4.00000	15.00000	0.10978	0.014778	0.024144	-	-
		-16.00000	-4.00000	15.00000	0.30472	0.044085	0.049843	-	-
		-15.00000	-4.00000	15.00000	0.49266	0.077016	0.073755	-	-
		-14.00000	-4.00000	15.00000	0.67227	0.11427	0.16806	-	-
		-13.00000	-4.00000	15.00000	0.84184	0.15672	0.34967	-	-
		-12.00000	-4.00000	15.00000	0.99916	0.20551	0.55373	-	-
		-11.00000	-4.00000	15.00000	1.1414	0.26208	0.78021	-	-
		-10.00000	-4.00000	15.00000	1.3440	0.32837	1.0243	-	-
		-9.00000	-4.00000	15.00000	1.5841	0.40692	1.2765	-	-
		-8.00000	-4.00000	15.00000	1.7770	0.50118	1.5225	-	-
		-7.00000	-4.00000	15.00000	1.9101	0.61583	1.7433	-	-
		-6.00000	-4.00000	15.00000	1.9636	0.75725	1.9154	-	-
		-5.00000	-4.00000	15.00000	1.9069	0.95886	2.0157	-	-
		-4.00000	-4.00000	15.00000	1.6975	1.2483	2.0160	-	-
		-3.00000	-4.00000	15.00000	1.5081	1.7788	2.1575	-	-
		-2.00000	-4.00000	15.00000	1.1573	2.4616	2.2634	-	-
		-1.00000	-4.00000	15.00000	0.63695	3.2768	2.3310	-	-
		0.00000	-4.00000	15.00000	0.0	4.1317	2.3518	-	-
		1.00000	-4.00000	15.00000	0.0	6.1667	3.5101	-	-
		2.00000	-4.00000	15.00000	0.0	6.1667	3.5101	-	-
		3.00000	-4.00000	15.00000	0.0	6.1814	3.5130	-	-
		4.00000	-4.00000	15.00000	0.0	6.2108	3.5164	-	-
		5.00000	-4.00000	15.00000	0.0	6.2437	3.5201	-	-
		6.00000	-4.00000	15.00000	0.0	6.2809	3.5262	-	-
		7.00000	-4.00000	15.00000	0.0	6.3234	3.5370	-	-
		8.00000	-4.00000	15.00000	0.0	6.3722	3.5547	-	-
		9.00000	-4.00000	15.00000	0.0	6.4287	3.5814	-	-
		10.00000	-4.00000	15.00000	0.0	6.4950	3.6196	-	-
		11.00000	-4.00000	15.00000	0.0	6.5736	3.6713	-	-
		12.00000	-4.00000	15.00000	0.0	6.6678	3.7390	-	-
		13.00000	-4.00000	15.00000	0.0	6.7825	3.8251	-	-
		14.00000	-4.00000	15.00000	0.0	6.9239	3.9319	-	-
		15.00000	-4.00000	15.00000	0.0	7.1255	4.0664	-	-
		16.00000	-4.00000	15.00000	0.0	7.4149	4.2331	-	-
		17.00000	-4.00000	15.00000	0.0	7.9454	4.5343	-	-
		18.00000	-4.00000	15.00000	0.0	8.6282	4.9192	-	-
		19.00000	-4.00000	15.00000	0.0	9.4435	5.3782	-	-
		20.00000	-4.00000	15.00000	0.0	8.2633	4.7036	-	-
		21.00000	-4.00000	15.00000	0.0	9.4435	5.3782	-	-
		22.00000	-4.00000	15.00000	0.0	8.6282	4.9192	-	-
		23.00000	-4.00000	15.00000	0.0	7.9454	4.5343	-	-
		24.00000	-4.00000	15.00000	0.0	7.4149	4.2331	-	-
		25.00000	-4.00000	15.00000	0.0	7.1255	4.0664	-	-
		26.00000	-4.00000	15.00000	0.0	6.9239	3.9319	-	-
		27.00000	-4.00000	15.00000	0.0	6.7825	3.8251	-	-
		28.00000	-4.00000	15.00000	0.0	6.6678	3.7390	-	-
		29.00000	-4.00000	15.00000	0.0	6.5736	3.6713	-	-
		30.00000	-4.00000	15.00000	0.0	6.4950	3.6196	-	-
		31.00000	-4.00000	15.00000	0.0	6.4287	3.5814	-	-
		32.00000	-4.00000	15.00000	0.0	6.3722	3.5547	-	-
		33.00000	-4.00000	15.00000	0.0	6.3234	3.5370	-	-
		34.00000	-4.00000	15.00000	0.0	4.2459	2.3679	-	-
		35.00000	-4.00000	15.00000	-0.11337	3.3538	1.9273	-	-
		36.00000	-4.00000	15.00000	-0.19525	2.5056	1.4899	-	-
		37.00000	-4.00000	15.00000	-0.23044	1.7935	1.0964	-	-
		38.00000	-4.00000	15.00000	-0.21967	1.2483	0.76970	-	-
		39.00000	-4.00000	15.00000	-0.18514	0.95886	0.58303	-	-
		40.00000	-4.00000	15.00000	-0.10519	0.75725	0.43613	-	-
		41.00000	-4.00000	15.00000	0.0	0.61583	0.31492	-	-
		42.00000	-4.00000	15.00000	0.0	0.50118	0.22889	-	-
		43.00000	-4.00000	15.00000	0.0	0.40692	0.16120	-	-
		44.00000	-4.00000	15.00000	0.0	0.32837	0.10944	-	-
		45.00000	-4.00000	15.00000	0.0	0.26208	0.071314	-	-
		46.00000	-4.00000	15.00000	0.0	0.20551	0.044539	-	-
		47.00000	-4.00000	15.00000	0.0	0.15672	0.026874	-	-
		48.00000	-4.00000	15.00000	0.0	0.11427	0.016091	-	-
		49.00000	-4.00000	15.00000	0.0	0.077016	0.0099711	-	-
		50.00000	-4.00000	15.00000	0.0	0.044085	0.0062996	-	-
		51.00000	-4.00000	15.00000	0.0	0.014778	0.0028646	-	-
		52.00000	-4.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-4.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-4.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-4.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-3.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-3.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-3.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-3.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-3.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-3.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-3.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-3.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-3.00000	15.00000	0.15943	0.015373	0.031130	-	-
		-16.00000	-3.00000	15.00000	0.36847	0.038080	0.055881	-	-
		-15.00000	-3.00000	15.00000	0.57212	0.063688	0.082741	-	-
		-14.00000	-3.00000	15.00000	0.76927	0.092781	0.22167	-	-
		-13.00000	-3.00000	15.00000	0.95854	0.12613	0.42547	-	-
		-12.00000	-3.00000	15.00000	1.1381	0.16465	0.65701	-	-
		-11.00000	-3.00000	15.00000	1.3055	0.20970	0.91621	-	-
		-10.00000	-3.00000	15.00000	1.6042	0.26300	1.1981	-	-
		-9.00000	-3.00000	15.00000	1.8985	0.32696	1.4926	-	-
		-8.00000	-3.00000	15.00000	2.1549	0.40495	1.7847	-	-
		-7.00000	-3.00000	15.00000	2.3619	0.50187	2.0535	-	-
		-6.00000	-3.00000	15.00000	2.4990	0.62699	2.2732	-	-
		-5.00000	-3.00000	15.00000	2.5308	0.83770	2.4174	-	-
		-4.00000	-3.00000	15.00000	2.3993	1.1180	2.4468	-	-
		-3.00000	-3.00000	15.00000	2.0138	1.4987	2.3277	-	-
		-2.00000	-3.00000	15.00000	1.6226	2.2920	2.4431	-	-
		-1.00000	-3.00000	15.00000	0.93346	3.3661	2.5299	-	-
		0.00000	-3.00000	15.00000	0.0	4.6062	2.5789	-	-
		1.00000	-3.00000	15.00000	0.0	6.8750	3.8491	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of		
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		2.00000	-3.00000	15.00000	0.0	6.8750	3.8491	-	-	-
		3.00000	-3.00000	15.00000	0.0	6.8904	3.8518	-	-	-
		4.00000	-3.00000	15.00000	0.0	6.9131	3.8543	-	-	-
		5.00000	-3.00000	15.00000	0.0	6.9387	3.8574	-	-	-
		6.00000	-3.00000	15.00000	0.0	6.9678	3.8627	-	-	-
		7.00000	-3.00000	15.00000	0.0	7.0011	3.8721	-	-	-
		8.00000	-3.00000	15.00000	0.0	7.0397	3.8873	-	-	-
		9.00000	-3.00000	15.00000	0.0	7.0847	3.9102	-	-	-
		10.00000	-3.00000	15.00000	0.0	7.1380	3.9426	-	-	-
		11.00000	-3.00000	15.00000	0.0	7.2020	3.9866	-	-	-
		12.00000	-3.00000	15.00000	0.0	7.2800	4.0444	-	-	-
		13.00000	-3.00000	15.00000	0.0	7.3769	4.1183	-	-	-
		14.00000	-3.00000	15.00000	0.0	7.5020	4.2117	-	-	-
		15.00000	-3.00000	15.00000	0.0	7.7127	4.3348	-	-	-
		16.00000	-3.00000	15.00000	0.0	7.9930	4.4928	-	-	-
		17.00000	-3.00000	15.00000	0.0	8.3737	4.7047	-	-	-
		18.00000	-3.00000	15.00000	0.0	9.1670	5.1465	-	-	-
		19.00000	-3.00000	15.00000	0.0	10.241	5.7400	-	-	-
		20.00000	-3.00000	15.00000	0.0	9.2125	5.1578	-	-	-
		21.00000	-3.00000	15.00000	0.0	10.241	5.7400	-	-	-
		22.00000	-3.00000	15.00000	0.0	9.1670	5.1465	-	-	-
		23.00000	-3.00000	15.00000	0.0	8.3737	4.7047	-	-	-
		24.00000	-3.00000	15.00000	0.0	7.9930	4.4928	-	-	-
		25.00000	-3.00000	15.00000	0.0	7.7127	4.3348	-	-	-
		26.00000	-3.00000	15.00000	0.0	7.5020	4.2117	-	-	-
		27.00000	-3.00000	15.00000	0.0	7.3769	4.1183	-	-	-
		28.00000	-3.00000	15.00000	0.0	7.2800	4.0444	-	-	-
		29.00000	-3.00000	15.00000	0.0	7.2020	3.9866	-	-	-
		30.00000	-3.00000	15.00000	0.0	7.1380	3.9426	-	-	-
		31.00000	-3.00000	15.00000	0.0	7.0847	3.9102	-	-	-
		32.00000	-3.00000	15.00000	0.0	7.0397	3.8873	-	-	-
		33.00000	-3.00000	15.00000	0.0	7.0011	3.8721	-	-	-
		34.00000	-3.00000	15.00000	0.0	4.6990	2.5925	-	-	-
		35.00000	-3.00000	15.00000	-0.18580	3.4298	2.0036	-	-	-
		36.00000	-3.00000	15.00000	-0.30844	2.3300	1.4595	-	-	-
		37.00000	-3.00000	15.00000	-0.35228	1.5141	1.0052	-	-	-
		38.00000	-3.00000	15.00000	-0.36662	1.1180	0.75419	-	-	-
		39.00000	-3.00000	15.00000	-0.30991	0.83770	0.54549	-	-	-
		40.00000	-3.00000	15.00000	-0.20446	0.62699	0.38954	-	-	-
		41.00000	-3.00000	15.00000	-0.065340	0.50187	0.28031	-	-	-
		42.00000	-3.00000	15.00000	0.0	0.40495	0.19529	-	-	-
		43.00000	-3.00000	15.00000	0.0	0.32696	0.13756	-	-	-
		44.00000	-3.00000	15.00000	0.0	0.26300	0.093553	-	-	-
		45.00000	-3.00000	15.00000	0.0	0.20970	0.061114	-	-	-
		46.00000	-3.00000	15.00000	0.0	0.16465	0.038236	-	-	-
		47.00000	-3.00000	15.00000	0.0	0.12611	0.023019	-	-	-
		48.00000	-3.00000	15.00000	0.0	0.092781	0.013632	-	-	-
		49.00000	-3.00000	15.00000	0.0	0.063688	0.0082880	-	-	-
		50.00000	-3.00000	15.00000	0.0	0.038080	0.0052341	-	-	-
		51.00000	-3.00000	15.00000	0.0	0.015373	0.0027379	-	-	-
		52.00000	-3.00000	15.00000	0.0	0.0	0.0	-	-	-
		53.00000	-3.00000	15.00000	0.0	0.0	0.0	-	-	-
		54.00000	-3.00000	15.00000	0.0	0.0	0.0	-	-	-
		55.00000	-3.00000	15.00000	0.0	0.0	0.0	-	-	-
		-25.00000	-2.00000	15.00000	0.0	0.0	0.0	-	-	-
		-24.00000	-2.00000	15.00000	0.0	0.0	0.0	-	-	-
		-23.00000	-2.00000	15.00000	0.0	0.0	0.0	-	-	-
		-22.00000	-2.00000	15.00000	0.0	0.0	0.0	-	-	-
		-21.00000	-2.00000	15.00000	0.0	0.0	0.0	-	-	-
		-20.00000	-2.00000	15.00000	0.0	0.0	0.0	-	-	-
		-19.00000	-2.00000	15.00000	0.0	0.0	0.0	-	-	-
		-18.00000	-2.00000	15.00000	0.0	0.0	0.0	-	-	-
		-17.00000	-2.00000	15.00000	0.20106	0.012340	0.036077	-	-	-
		-16.00000	-2.00000	15.00000	0.42445	0.027839	0.060809	-	-	-
		-15.00000	-2.00000	15.00000	0.64418	0.045366	0.090623	-	-	-
		-14.00000	-2.00000	15.00000	0.85951	0.065343	0.126807	-	-	-
		-13.00000	-2.00000	15.00000	1.0694	0.088319	0.149305	-	-	-
		-12.00000	-2.00000	15.00000	1.2727	0.11502	0.175083	-	-	-
		-11.00000	-2.00000	15.00000	1.4821	0.14641	0.10417	-	-	-
		-10.00000	-2.00000	15.00000	1.8602	0.18383	0.13608	-	-	-
		-9.00000	-2.00000	15.00000	2.2167	0.22918	0.16985	-	-	-
		-8.00000	-2.00000	15.00000	2.5492	0.28522	0.20395	-	-	-
		-7.00000	-2.00000	15.00000	2.8500	0.35611	0.23630	-	-	-
		-6.00000	-2.00000	15.00000	3.1032	0.46293	0.26436	-	-	-
		-5.00000	-2.00000	15.00000	3.2767	0.62806	0.28478	-	-	-
		-4.00000	-2.00000	15.00000	3.3095	0.86074	0.29359	-	-	-
		-3.00000	-2.00000	15.00000	3.0824	1.2065	0.28593	-	-	-
		-2.00000	-2.00000	15.00000	2.3651	1.7491	0.25503	-	-	-
		-1.00000	-2.00000	15.00000	1.4903	3.1300	0.26494	-	-	-
		0.00000	-2.00000	15.00000	0.0	5.0808	0.27538	-	-	-
		1.00000	-2.00000	15.00000	0.0	7.5833	0.41102	-	-	-
		2.00000	-2.00000	15.00000	0.0	7.5833	0.41102	-	-	-
		3.00000	-2.00000	15.00000	0.0	7.5957	0.41122	-	-	-
		4.00000	-2.00000	15.00000	0.0	7.6112	0.41139	-	-	-
		5.00000	-2.00000	15.00000	0.0	7.6287	0.41161	-	-	-
		6.00000	-2.00000	15.00000	0.0	7.6487	0.41201	-	-	-
		7.00000	-2.00000	15.00000	0.0	7.6717	0.41270	-	-	-
		8.00000	-2.00000	15.00000	0.0	7.6983	0.41382	-	-	-
		9.00000	-2.00000	15.00000	0.0	7.7297	0.41549	-	-	-
		10.00000	-2.00000	15.00000	0.0	7.7672	0.41786	-	-	-
		11.00000	-2.00000	15.00000	0.0	7.8125	0.42107	-	-	-
		12.00000	-2.00000	15.00000	0.0	7.8686	0.42529	-	-	-
		13.00000	-2.00000	15.00000	0.0	7.9394	0.43073	-	-	-
		14.00000	-2.00000	15.00000	0.0	8.0463	0.43788	-	-	-
		15.00000	-2.00000	15.00000	0.0	8.2114	0.44731	-	-	-
		16.00000	-2.00000	15.00000	0.0	8.4441	0.46029	-	-	-
		17.00000	-2.00000	15.00000	0.0	8.7898	0.47931	-	-	-
		18.00000	-2.00000	15.00000	0.0	9.3325	0.50855	-	-	-
		19.00000	-2.00000	15.00000	0.0	10.713	0.58235	-	-	-
		20.00000	-2.00000	15.00000	0.0	10.162	0.55076	-	-	-
		21.00000	-2.00000	15.00000	0.0	10.713	0.58235	-	-	-
		22.00000	-2.00000	15.00000	0.0	9.3325	0.50855	-	-	-
		23.00000	-2.00000	15.00000	0.0	8.7898	0.47931	-	-	-
		24.00000	-2.00000	15.00000	0.0	8.4441	0.46029	-	-	-
		25.00000	-2.00000	15.00000	0.0	8.2114	0.44731	-	-	-
		26.00000	-2.00000	15.00000	0.0	8.0463	0.43788	-	-	-
		27.00000	-2.00000	15.00000	0.0	7.9394	0.43073	-	-	-
		28.00000	-2.00000	15.00000	0.0	7.8686	0.42529	-	-	-
		29.00000	-2.00000	15.00000	0.0	7.8125	0.42107	-	-	-
		30.00000	-2.00000	15.00000	0.0	7.7672	0.41786	-	-	-
		31.00000	-2.00000	15.00000	0.0	7.7297	0.41549	-	-	-
		32.00000	-2.00000	15.00000	0.0	7.6983	0.41382	-	-	-
		33.00000	-2.00000	15.00000	0.0	7.6717	0.41270	-	-	-
		34.00000	-2.00000	15.00000	0.0	5.1462	0.27637	-	-	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		51.00000	-2.00000	15.00000	0.0	0.012340	0.0020862	-	-
		52.00000	-2.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-2.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-2.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-2.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	-1.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	-1.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	-1.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	-1.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	-1.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	-1.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	-1.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	-1.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	-1.00000	15.00000	0.23243	0.0068074	0.039299	-	-
		-16.00000	-1.00000	15.00000	0.47001	0.014669	0.064458	-	-
		-15.00000	-1.00000	15.00000	0.70578	0.023573	0.096654	-	-
		-14.00000	-1.00000	15.00000	0.93935	0.033743	0.30363	-	-
		-13.00000	-1.00000	15.00000	1.1702	0.045468	0.54757	-	-
		-12.00000	-1.00000	15.00000	1.3977	0.059133	0.82890	-	-
		-11.00000	-1.00000	15.00000	1.6664	0.075261	1.1485	-	-
		-10.00000	-1.00000	15.00000	2.0987	0.094583	1.5024	-	-
		-9.00000	-1.00000	15.00000	2.5218	0.11815	1.8817	-	-
		-8.00000	-1.00000	15.00000	2.9379	0.14751	2.2723	-	-
		-7.00000	-1.00000	15.00000	3.3463	0.18511	2.6544	-	-
		-6.00000	-1.00000	15.00000	3.7411	0.24662	3.0042	-	-
		-5.00000	-1.00000	15.00000	4.1060	0.33856	3.2890	-	-
		-4.00000	-1.00000	15.00000	4.4026	0.47407	3.4703	-	-
		-3.00000	-1.00000	15.00000	4.5384	0.69234	3.4955	-	-
		-2.00000	-1.00000	15.00000	4.2620	1.0945	3.2759	-	-
		-1.00000	-1.00000	15.00000	2.7593	1.9996	2.6077	-	-
		0.00000	-1.00000	15.00000	0.0	5.5554	2.8171	-	-
		1.00000	-1.00000	15.00000	0.0	8.2917	4.2046	-	-
		2.00000	-1.00000	15.00000	0.0	8.2917	4.2046	-	-
		3.00000	-1.00000	15.00000	0.0	8.2985	4.2057	-	-
		4.00000	-1.00000	15.00000	0.0	8.3063	4.2065	-	-
		5.00000	-1.00000	15.00000	0.0	8.3152	4.2077	-	-
		6.00000	-1.00000	15.00000	0.0	8.3254	4.2098	-	-
		7.00000	-1.00000	15.00000	0.0	8.3371	4.2135	-	-
		8.00000	-1.00000	15.00000	0.0	8.3508	4.2194	-	-
		9.00000	-1.00000	15.00000	0.0	8.3669	4.2283	-	-
		10.00000	-1.00000	15.00000	0.0	8.3862	4.2407	-	-
		11.00000	-1.00000	15.00000	0.0	8.4098	4.2577	-	-
		12.00000	-1.00000	15.00000	0.0	8.4392	4.2800	-	-
		13.00000	-1.00000	15.00000	0.0	8.4768	4.3089	-	-
		14.00000	-1.00000	15.00000	0.0	8.5383	4.3477	-	-
		15.00000	-1.00000	15.00000	0.0	8.6302	4.3997	-	-
		16.00000	-1.00000	15.00000	0.0	8.7657	4.4748	-	-
		17.00000	-1.00000	15.00000	0.0	8.9840	4.5935	-	-
		18.00000	-1.00000	15.00000	0.0	9.3862	4.8037	-	-
		19.00000	-1.00000	15.00000	0.0	10.291	5.2528	-	-
		20.00000	-1.00000	15.00000	0.0	11.111	5.6341	-	-
		21.00000	-1.00000	15.00000	0.0	10.291	5.2528	-	-
		22.00000	-1.00000	15.00000	0.0	9.3862	4.8037	-	-
		23.00000	-1.00000	15.00000	0.0	8.9840	4.5935	-	-
		24.00000	-1.00000	15.00000	0.0	8.7657	4.4748	-	-
		25.00000	-1.00000	15.00000	0.0	8.6302	4.3997	-	-
		26.00000	-1.00000	15.00000	0.0	8.5383	4.3477	-	-
		27.00000	-1.00000	15.00000	0.0	8.4768	4.3089	-	-
		28.00000	-1.00000	15.00000	0.0	8.4392	4.2800	-	-
		29.00000	-1.00000	15.00000	0.0	8.4098	4.2577	-	-
		30.00000	-1.00000	15.00000	0.0	8.3862	4.2407	-	-
		31.00000	-1.00000	15.00000	0.0	8.3669	4.2283	-	-
		32.00000	-1.00000	15.00000	0.0	8.3508	4.2194	-	-
		33.00000	-1.00000	15.00000	0.0	8.3371	4.2135	-	-
		34.00000	-1.00000	15.00000	0.0	5.5892	2.8223	-	-
		35.00000	-1.00000	15.00000	-0.74957	2.0231	1.4726	-	-
		36.00000	-1.00000	15.00000	-1.0197	1.1092	1.1884	-	-
		37.00000	-1.00000	15.00000	-0.90334	0.69915	0.89736	-	-
		38.00000	-1.00000	15.00000	-0.78361	0.47407	0.61097	-	-
		39.00000	-1.00000	15.00000	-0.61404	0.33856	0.37126	-	-
		40.00000	-1.00000	15.00000	-0.41821	0.24662	0.21344	-	-
		41.00000	-1.00000	15.00000	-0.20696	0.18511	0.13155	-	-
		42.00000	-1.00000	15.00000	0.0	0.14751	0.075436	-	-
		43.00000	-1.00000	15.00000	0.0	0.11815	0.053101	-	-
		44.00000	-1.00000	15.00000	0.0	0.094583	0.036169	-	-
		45.00000	-1.00000	15.00000	0.0	0.075261	0.023696	-	-
		46.00000	-1.00000	15.00000	0.0	0.059133	0.014866	-	-
		47.00000	-1.00000	15.00000	0.0	0.045468	0.0089441	-	-
		48.00000	-1.00000	15.00000	0.0	0.033743	0.0052465	-	-
		49.00000	-1.00000	15.00000	0.0	0.023573	0.0031239	-	-
		50.00000	-1.00000	15.00000	0.0	0.014669	0.0019508	-	-
		51.00000	-1.00000	15.00000	0.0	0.0068074	0.0011182	-	-
		52.00000	-1.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	-1.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	-1.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	-1.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	0.00000	15.00000	0.0	0.0	0.0025890	-	-
		-17.00000	0.00000	15.00000	0.25125	0.0	0.040894	-	-
		-16.00000	0.00000	15.00000	0.50250	0.0	0.066612	-	-
		-15.00000	0.00000	15.00000	0.75375	0.0	0.10020	-	-
		-14.00000	0.00000	15.00000	1.0050	0.0	0.32495	-	-
		-13.00000	0.00000	15.00000	1.2562	0.0	0.58449	-	-
		-12.00000	0.00000	15.00000	1.5075	0.0	0.88526	-	-
		-11.00000	0.00000	15.00000	1.8184	0.0	1.2291	-	-
		-10.00000	0.00000	15.00000	2.3044	0.0	1.6130	-	-
		-9.00000	0.00000	15.00000	2.7934	0.0	2.0295	-	-
		-8.00000	0.00000	15.00000	3.2932	0.0	2.4664	-	-
		-7.00000	0.00000	15.00000	3.8113	0.0	2.9068	-	-
		-6.00000	0.00000	15.00000	4.3553	0.0	3.3291	-	-
		-5.00000	0.00000	15.00000	4.9328	0.0	3.7071	-	-
		-4.00000	0.00000	15.00000	5.5513	0.0	4.0099	-	-
		-3.00000	0.00000	15.00000	6.2185	0.0	4.2020	-	-
		-2.00000	0.00000	15.00000	6.9419	0.0	4.2431	-	-
		-1.00000	0.00000	15.00000	7.7292	0.0	4.0883	-	-
		0.00000	0.00000	15.00000	4.2939	3.0150	3.1854	-	-
		1.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		2.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		3.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		4.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		5.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		6.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		7.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		8.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		9.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		10.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		11.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		12.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		13.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		14.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		15.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		16.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		17.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		18.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		19.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		20.00000	0.00000	15.00000	0.0	6.0300	2.6827	-	-
		21.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		22.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		23.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		24.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		25.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		26.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		27.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		28.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		29.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		30.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		31.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		32.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		33.00000	0.00000	15.00000	0.0	9.0000	4.0040	-	-
		34.00000	0.00000	15.00000	-1.3400	3.0150	1.9375	-	-
		35.00000	0.00000	15.00000	-2.2054	0.0	1.2079	-	-
		36.00000	0.00000	15.00000	-1.7308	0.0	0.99113	-	-
		37.00000	0.00000	15.00000	-1.2562	0.0	0.72598	-	-
		38.00000	0.00000	15.00000	-1.0050	0.0	0.45534	-	-
		39.00000	0.00000	15.00000	-0.75375	0.0	0.22712	-	-
		40.00000	0.00000	15.00000	-0.50250	0.0	0.088272	-	-
		41.00000	0.00000	15.00000	-0.25125	0.0	0.032700	-	-
		42.00000	0.00000	15.00000	0.0	0.0	0.0011507	-	-
		43.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	0.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	1.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	1.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	1.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	1.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	1.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	1.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	1.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	1.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	1.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	1.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	1.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	1.00000	15.00000	5.6985	0.0	4.3395	-	-
		-6.00000	1.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	1.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	1.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	1.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	1.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	1.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	1.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		2.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		3.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		4.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		5.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		6.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		7.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		8.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		9.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		10.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		11.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		12.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		13.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		14.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		15.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		16.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		17.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		18.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		19.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		20.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		22.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		23.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		24.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		25.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		26.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		27.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		28.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		29.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		30.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		31.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		32.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		33.00000	1.00000	15.00000			Point lies within an excavation.	-	-
		34.00000	1.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	1.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	1.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	1.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	1.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	1.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	1.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	1.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	1.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	1.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	2.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	2.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	2.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	2.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	2.00000	15.00000	1.5000	0.0	0.48501	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-13.00000	2.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	2.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	2.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	2.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	2.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	2.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	2.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	2.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	2.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	2.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	2.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	2.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	2.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	2.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	2.00000	15.00000				Point lies within an excavation.	
		2.00000	2.00000	15.00000				Point lies within an excavation.	
		3.00000	2.00000	15.00000				Point lies within an excavation.	
		4.00000	2.00000	15.00000				Point lies within an excavation.	
		5.00000	2.00000	15.00000				Point lies within an excavation.	
		6.00000	2.00000	15.00000				Point lies within an excavation.	
		7.00000	2.00000	15.00000				Point lies within an excavation.	
		8.00000	2.00000	15.00000				Point lies within an excavation.	
		9.00000	2.00000	15.00000				Point lies within an excavation.	
		10.00000	2.00000	15.00000				Point lies within an excavation.	
		11.00000	2.00000	15.00000				Point lies within an excavation.	
		12.00000	2.00000	15.00000				Point lies within an excavation.	
		13.00000	2.00000	15.00000				Point lies within an excavation.	
		14.00000	2.00000	15.00000				Point lies within an excavation.	
		15.00000	2.00000	15.00000				Point lies within an excavation.	
		16.00000	2.00000	15.00000				Point lies within an excavation.	
		17.00000	2.00000	15.00000				Point lies within an excavation.	
		18.00000	2.00000	15.00000				Point lies within an excavation.	
		19.00000	2.00000	15.00000				Point lies within an excavation.	
		20.00000	2.00000	15.00000	0.0	0.0	-	-	-
		21.00000	2.00000	15.00000				Point lies within an excavation.	
		22.00000	2.00000	15.00000				Point lies within an excavation.	
		23.00000	2.00000	15.00000				Point lies within an excavation.	
		24.00000	2.00000	15.00000				Point lies within an excavation.	
		25.00000	2.00000	15.00000				Point lies within an excavation.	
		26.00000	2.00000	15.00000				Point lies within an excavation.	
		27.00000	2.00000	15.00000				Point lies within an excavation.	
		28.00000	2.00000	15.00000				Point lies within an excavation.	
		29.00000	2.00000	15.00000				Point lies within an excavation.	
		30.00000	2.00000	15.00000				Point lies within an excavation.	
		31.00000	2.00000	15.00000				Point lies within an excavation.	
		32.00000	2.00000	15.00000				Point lies within an excavation.	
		33.00000	2.00000	15.00000				Point lies within an excavation.	
		34.00000	2.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	2.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	2.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	2.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	2.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	2.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	2.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	2.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	2.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	2.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	3.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	3.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	3.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	3.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	3.00000	15.00000	1.5000	0.0	0.44501	-	-
		-13.00000	3.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	3.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	3.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	3.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	3.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	3.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	3.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	3.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	3.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	3.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	3.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	3.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	3.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	3.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	3.00000	15.00000				Point lies within an excavation.	
		2.00000	3.00000	15.00000				Point lies within an excavation.	
		3.00000	3.00000	15.00000				Point lies within an excavation.	
		4.00000	3.00000	15.00000				Point lies within an excavation.	
		5.00000	3.00000	15.00000				Point lies within an excavation.	
		6.00000	3.00000	15.00000				Point lies within an excavation.	
		7.00000	3.00000	15.00000				Point lies within an excavation.	
		8.00000	3.00000	15.00000				Point lies within an excavation.	
		9.00000	3.00000	15.00000				Point lies within an excavation.	
		10.00000	3.00000	15.00000				Point lies within an excavation.	
		11.00000	3.00000	15.00000				Point lies within an excavation.	
		12.00000	3.00000	15.00000				Point lies within an excavation.	
		13.00000	3.00000	15.00000				Point lies within an excavation.	
		14.00000	3.00000	15.00000				Point lies within an excavation.	
		15.00000	3.00000	15.00000				Point lies within an excavation.	
		16.00000	3.00000	15.00000				Point lies within an excavation.	
		17.00000	3.00000	15.00000				Point lies within an excavation.	
		18.00000	3.00000	15.00000				Point lies within an excavation.	
		19.00000	3.00000	15.00000				Point lies within an excavation.	
		20.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	3.00000	15.00000				Point lies within an excavation.	
		22.00000	3.00000	15.00000				Point lies within an excavation.	
		23.00000	3.00000	15.00000				Point lies within an excavation.	
		24.00000	3.00000	15.00000				Point lies within an excavation.	
		25.00000	3.00000	15.00000				Point lies within an excavation.	
		26.00000	3.00000	15.00000				Point lies within an excavation.	
		27.00000	3.00000	15.00000				Point lies within an excavation.	
		28.00000	3.00000	15.00000				Point lies within an excavation.	
		29.00000	3.00000	15.00000				Point lies within an excavation.	
		30.00000	3.00000	15.00000				Point lies within an excavation.	
		31.00000	3.00000	15.00000				Point lies within an excavation.	
		32.00000	3.00000	15.00000				Point lies within an excavation.	
		33.00000	3.00000	15.00000				Point lies within an excavation.	
		34.00000	3.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	3.00000	15.00000	-3.2917	0.0	1.8028	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		36.00000	3.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	3.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	3.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	3.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	3.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	3.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	3.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	3.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	4.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	4.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	4.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	4.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	4.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	4.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	4.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	4.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	4.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	4.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	4.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	4.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	4.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	4.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	4.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	4.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	4.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	4.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	4.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	4.00000	15.00000			Point lies within an excavation.		
		2.00000	4.00000	15.00000			Point lies within an excavation.		
		3.00000	4.00000	15.00000			Point lies within an excavation.		
		4.00000	4.00000	15.00000			Point lies within an excavation.		
		5.00000	4.00000	15.00000			Point lies within an excavation.		
		6.00000	4.00000	15.00000			Point lies within an excavation.		
		7.00000	4.00000	15.00000			Point lies within an excavation.		
		8.00000	4.00000	15.00000			Point lies within an excavation.		
		9.00000	4.00000	15.00000			Point lies within an excavation.		
		10.00000	4.00000	15.00000			Point lies within an excavation.		
		11.00000	4.00000	15.00000			Point lies within an excavation.		
		12.00000	4.00000	15.00000			Point lies within an excavation.		
		13.00000	4.00000	15.00000			Point lies within an excavation.		
		14.00000	4.00000	15.00000			Point lies within an excavation.		
		15.00000	4.00000	15.00000			Point lies within an excavation.		
		16.00000	4.00000	15.00000			Point lies within an excavation.		
		17.00000	4.00000	15.00000			Point lies within an excavation.		
		18.00000	4.00000	15.00000			Point lies within an excavation.		
		19.00000	4.00000	15.00000			Point lies within an excavation.		
		20.00000	4.00000	15.00000	0.0		0.0	-	-
		21.00000	4.00000	15.00000			Point lies within an excavation.		
		22.00000	4.00000	15.00000			Point lies within an excavation.		
		23.00000	4.00000	15.00000			Point lies within an excavation.		
		24.00000	4.00000	15.00000			Point lies within an excavation.		
		25.00000	4.00000	15.00000			Point lies within an excavation.		
		26.00000	4.00000	15.00000			Point lies within an excavation.		
		27.00000	4.00000	15.00000			Point lies within an excavation.		
		28.00000	4.00000	15.00000			Point lies within an excavation.		
		29.00000	4.00000	15.00000			Point lies within an excavation.		
		30.00000	4.00000	15.00000			Point lies within an excavation.		
		31.00000	4.00000	15.00000			Point lies within an excavation.		
		32.00000	4.00000	15.00000			Point lies within an excavation.		
		33.00000	4.00000	15.00000			Point lies within an excavation.		
		34.00000	4.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	4.00000	15.00000	-3.2917	0.0	1.6029	-	-
		36.00000	4.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	4.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	4.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	4.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	4.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	4.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	4.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	4.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	5.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	5.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	5.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	5.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	5.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	5.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	5.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	5.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	5.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	5.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	5.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	5.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	5.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	5.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	5.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	5.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	5.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	5.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	5.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	5.00000	15.00000			Point lies within an excavation.		
		2.00000	5.00000	15.00000			Point lies within an excavation.		
		3.00000	5.00000	15.00000			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
		4.00000	5.00000	15.00000			Point lies within an excavation.		
		5.00000	5.00000	15.00000			Point lies within an excavation.		
		6.00000	5.00000	15.00000			Point lies within an excavation.		
		7.00000	5.00000	15.00000			Point lies within an excavation.		
		8.00000	5.00000	15.00000			Point lies within an excavation.		
		9.00000	5.00000	15.00000			Point lies within an excavation.		
		10.00000	5.00000	15.00000			Point lies within an excavation.		
		11.00000	5.00000	15.00000			Point lies within an excavation.		
		12.00000	5.00000	15.00000			Point lies within an excavation.		
		13.00000	5.00000	15.00000			Point lies within an excavation.		
		14.00000	5.00000	15.00000			Point lies within an excavation.		
		15.00000	5.00000	15.00000			Point lies within an excavation.		
		16.00000	5.00000	15.00000			Point lies within an excavation.		
		17.00000	5.00000	15.00000			Point lies within an excavation.		
		18.00000	5.00000	15.00000			Point lies within an excavation.		
		19.00000	5.00000	15.00000			Point lies within an excavation.		
		20.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	5.00000	15.00000			Point lies within an excavation.		
		22.00000	5.00000	15.00000			Point lies within an excavation.		
		23.00000	5.00000	15.00000			Point lies within an excavation.		
		24.00000	5.00000	15.00000			Point lies within an excavation.		
		25.00000	5.00000	15.00000			Point lies within an excavation.		
		26.00000	5.00000	15.00000			Point lies within an excavation.		
		27.00000	5.00000	15.00000			Point lies within an excavation.		
		28.00000	5.00000	15.00000			Point lies within an excavation.		
		29.00000	5.00000	15.00000			Point lies within an excavation.		
		30.00000	5.00000	15.00000			Point lies within an excavation.		
		31.00000	5.00000	15.00000			Point lies within an excavation.		
		32.00000	5.00000	15.00000			Point lies within an excavation.		
		33.00000	5.00000	15.00000			Point lies within an excavation.		
		34.00000	5.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	5.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	5.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	5.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	5.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	5.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	5.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	5.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	5.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	5.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	6.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	6.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	6.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	6.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	6.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	6.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	6.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	6.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	6.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	6.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	6.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	6.00000	15.00000	5.6885	0.0	4.3395	-	-
		-6.00000	6.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	6.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	6.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	6.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	6.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	6.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	6.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	6.00000	15.00000			Point lies within an excavation.		
		2.00000	6.00000	15.00000			Point lies within an excavation.		
		3.00000	6.00000	15.00000			Point lies within an excavation.		
		4.00000	6.00000	15.00000			Point lies within an excavation.		
		5.00000	6.00000	15.00000			Point lies within an excavation.		
		6.00000	6.00000	15.00000			Point lies within an excavation.		
		7.00000	6.00000	15.00000			Point lies within an excavation.		
		8.00000	6.00000	15.00000			Point lies within an excavation.		
		9.00000	6.00000	15.00000			Point lies within an excavation.		
		10.00000	6.00000	15.00000			Point lies within an excavation.		
		11.00000	6.00000	15.00000			Point lies within an excavation.		
		12.00000	6.00000	15.00000			Point lies within an excavation.		
		13.00000	6.00000	15.00000			Point lies within an excavation.		
		14.00000	6.00000	15.00000			Point lies within an excavation.		
		15.00000	6.00000	15.00000			Point lies within an excavation.		
		16.00000	6.00000	15.00000			Point lies within an excavation.		
		17.00000	6.00000	15.00000			Point lies within an excavation.		
		18.00000	6.00000	15.00000			Point lies within an excavation.		
		19.00000	6.00000	15.00000			Point lies within an excavation.		
		20.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	6.00000	15.00000			Point lies within an excavation.		
		22.00000	6.00000	15.00000			Point lies within an excavation.		
		23.00000	6.00000	15.00000			Point lies within an excavation.		
		24.00000	6.00000	15.00000			Point lies within an excavation.		
		25.00000	6.00000	15.00000			Point lies within an excavation.		
		26.00000	6.00000	15.00000			Point lies within an excavation.		
		27.00000	6.00000	15.00000			Point lies within an excavation.		
		28.00000	6.00000	15.00000			Point lies within an excavation.		
		29.00000	6.00000	15.00000			Point lies within an excavation.		
		30.00000	6.00000	15.00000			Point lies within an excavation.		
		31.00000	6.00000	15.00000			Point lies within an excavation.		
		32.00000	6.00000	15.00000			Point lies within an excavation.		
		33.00000	6.00000	15.00000			Point lies within an excavation.		
		34.00000	6.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	6.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	6.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	6.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	6.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	6.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	6.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	6.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	6.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	6.00000	15.00000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		53.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	6.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	7.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	7.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	7.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	7.00000	15.00000	1.12500	0.0	0.14956	-	-
		-14.00000	7.00000	15.00000	1.50000	0.0	0.48501	-	-
		-13.00000	7.00000	15.00000	1.87500	0.0	0.87237	-	-
		-12.00000	7.00000	15.00000	2.25000	0.0	1.3213	-	-
		-11.00000	7.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	7.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	7.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	7.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	7.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	7.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	7.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	7.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	7.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	7.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	7.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	7.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	7.00000	15.00000			Point lies within an excavation.		
		2.00000	7.00000	15.00000			Point lies within an excavation.		
		3.00000	7.00000	15.00000			Point lies within an excavation.		
		4.00000	7.00000	15.00000			Point lies within an excavation.		
		5.00000	7.00000	15.00000			Point lies within an excavation.		
		6.00000	7.00000	15.00000			Point lies within an excavation.		
		7.00000	7.00000	15.00000			Point lies within an excavation.		
		8.00000	7.00000	15.00000			Point lies within an excavation.		
		9.00000	7.00000	15.00000			Point lies within an excavation.		
		10.00000	7.00000	15.00000			Point lies within an excavation.		
		11.00000	7.00000	15.00000			Point lies within an excavation.		
		12.00000	7.00000	15.00000			Point lies within an excavation.		
		13.00000	7.00000	15.00000			Point lies within an excavation.		
		14.00000	7.00000	15.00000			Point lies within an excavation.		
		15.00000	7.00000	15.00000			Point lies within an excavation.		
		16.00000	7.00000	15.00000			Point lies within an excavation.		
		17.00000	7.00000	15.00000			Point lies within an excavation.		
		18.00000	7.00000	15.00000			Point lies within an excavation.		
		19.00000	7.00000	15.00000			Point lies within an excavation.		
		20.00000	7.00000	15.00000	0.0	0.0	-	-	-
		21.00000	7.00000	15.00000			Point lies within an excavation.		
		22.00000	7.00000	15.00000			Point lies within an excavation.		
		23.00000	7.00000	15.00000			Point lies within an excavation.		
		24.00000	7.00000	15.00000			Point lies within an excavation.		
		25.00000	7.00000	15.00000			Point lies within an excavation.		
		26.00000	7.00000	15.00000			Point lies within an excavation.		
		27.00000	7.00000	15.00000			Point lies within an excavation.		
		28.00000	7.00000	15.00000			Point lies within an excavation.		
		29.00000	7.00000	15.00000			Point lies within an excavation.		
		30.00000	7.00000	15.00000			Point lies within an excavation.		
		31.00000	7.00000	15.00000			Point lies within an excavation.		
		32.00000	7.00000	15.00000			Point lies within an excavation.		
		33.00000	7.00000	15.00000			Point lies within an excavation.		
		34.00000	7.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	7.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	7.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	7.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	7.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	7.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	7.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	7.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	7.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	7.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	8.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	8.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	8.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	8.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	8.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	8.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	8.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	8.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	8.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	8.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	8.00000	15.00000	1.12500	0.0	0.14956	-	-
		-14.00000	8.00000	15.00000	1.50000	0.0	0.48501	-	-
		-13.00000	8.00000	15.00000	1.87500	0.0	0.87237	-	-
		-12.00000	8.00000	15.00000	2.25000	0.0	1.3213	-	-
		-11.00000	8.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	8.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	8.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	8.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	8.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	8.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	8.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	8.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	8.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	8.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	8.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	8.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	8.00000	15.00000			Point lies within an excavation.		
		2.00000	8.00000	15.00000			Point lies within an excavation.		
		3.00000	8.00000	15.00000			Point lies within an excavation.		
		4.00000	8.00000	15.00000			Point lies within an excavation.		
		5.00000	8.00000	15.00000			Point lies within an excavation.		
		6.00000	8.00000	15.00000			Point lies within an excavation.		
		7.00000	8.00000	15.00000			Point lies within an excavation.		
		8.00000	8.00000	15.00000			Point lies within an excavation.		
		9.00000	8.00000	15.00000			Point lies within an excavation.		
		10.00000	8.00000	15.00000			Point lies within an excavation.		
		11.00000	8.00000	15.00000			Point lies within an excavation.		
		12.00000	8.00000	15.00000			Point lies within an excavation.		
		13.00000	8.00000	15.00000			Point lies within an excavation.		
		14.00000	8.00000	15.00000			Point lies within an excavation.		
		15.00000	8.00000	15.00000			Point lies within an excavation.		
		16.00000	8.00000	15.00000			Point lies within an excavation.		
		17.00000	8.00000	15.00000			Point lies within an excavation.		
		18.00000	8.00000	15.00000			Point lies within an excavation.		
		19.00000	8.00000	15.00000			Point lies within an excavation.		
		20.00000	8.00000	15.00000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
	21.00000	8.00000	15.00000					Point lies within an excavation.	
	22.00000	8.00000	15.00000					Point lies within an excavation.	
	23.00000	8.00000	15.00000					Point lies within an excavation.	
	24.00000	8.00000	15.00000					Point lies within an excavation.	
	25.00000	8.00000	15.00000					Point lies within an excavation.	
	26.00000	8.00000	15.00000					Point lies within an excavation.	
	27.00000	8.00000	15.00000					Point lies within an excavation.	
	28.00000	8.00000	15.00000					Point lies within an excavation.	
	29.00000	8.00000	15.00000					Point lies within an excavation.	
	30.00000	8.00000	15.00000					Point lies within an excavation.	
	31.00000	8.00000	15.00000					Point lies within an excavation.	
	32.00000	8.00000	15.00000					Point lies within an excavation.	
	33.00000	8.00000	15.00000					Point lies within an excavation.	
	34.00000	8.00000	15.00000		-4.0000	0.0	1.7795	-	-
	35.00000	8.00000	15.00000		-3.2917	0.0	1.8028	-	-
	36.00000	8.00000	15.00000		-2.5833	0.0	1.4793	-	-
	37.00000	8.00000	15.00000		-1.8750	0.0	1.0836	-	-
	38.00000	8.00000	15.00000		-1.5000	0.0	0.67962	-	-
	39.00000	8.00000	15.00000		-1.1250	0.0	0.33899	-	-
	40.00000	8.00000	15.00000		-0.75000	0.0	0.13175	-	-
	41.00000	8.00000	15.00000		-0.37500	0.0	0.04806	-	-
	42.00000	8.00000	15.00000		0.0	0.0	0.0017174	-	-
	43.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	44.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	45.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	46.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	47.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	48.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	49.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	50.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	51.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	52.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	53.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	54.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	55.00000	8.00000	15.00000		0.0	0.0	0.0	-	-
	-25.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	-24.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	-23.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	-22.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	-21.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	-20.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	-19.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	-18.00000	9.00000	15.00000		0.0	0.0	0.0038642	-	-
	-17.00000	9.00000	15.00000		0.37500	0.0	0.061035	-	-
	-16.00000	9.00000	15.00000		0.75000	0.0	0.099421	-	-
	-15.00000	9.00000	15.00000		1.1250	0.0	0.14956	-	-
	-14.00000	9.00000	15.00000		1.5000	0.0	0.48501	-	-
	-13.00000	9.00000	15.00000		1.8750	0.0	0.87237	-	-
	-12.00000	9.00000	15.00000		2.2500	0.0	1.3213	-	-
	-11.00000	9.00000	15.00000		2.7141	0.0	1.8344	-	-
	-10.00000	9.00000	15.00000		3.4393	0.0	2.4075	-	-
	-9.00000	9.00000	15.00000		4.1693	0.0	3.0291	-	-
	-8.00000	9.00000	15.00000		4.9152	0.0	3.6812	-	-
	-7.00000	9.00000	15.00000		5.6885	0.0	4.3385	-	-
	-6.00000	9.00000	15.00000		6.5004	0.0	4.9688	-	-
	-5.00000	9.00000	15.00000		7.3624	0.0	5.5330	-	-
	-4.00000	9.00000	15.00000		8.2856	0.0	5.9849	-	-
	-3.00000	9.00000	15.00000		9.2814	0.0	6.2716	-	-
	-2.00000	9.00000	15.00000		10.361	0.0	6.3329	-	-
	-1.00000	9.00000	15.00000		11.536	0.0	6.1019	-	-
	0.00000	9.00000	15.00000		12.818	0.0	5.5046	-	-
	1.00000	9.00000	15.00000					Point lies within an excavation.	
	2.00000	9.00000	15.00000					Point lies within an excavation.	
	3.00000	9.00000	15.00000					Point lies within an excavation.	
	4.00000	9.00000	15.00000					Point lies within an excavation.	
	5.00000	9.00000	15.00000					Point lies within an excavation.	
	6.00000	9.00000	15.00000					Point lies within an excavation.	
	7.00000	9.00000	15.00000					Point lies within an excavation.	
	8.00000	9.00000	15.00000					Point lies within an excavation.	
	9.00000	9.00000	15.00000					Point lies within an excavation.	
	10.00000	9.00000	15.00000					Point lies within an excavation.	
	11.00000	9.00000	15.00000					Point lies within an excavation.	
	12.00000	9.00000	15.00000					Point lies within an excavation.	
	13.00000	9.00000	15.00000					Point lies within an excavation.	
	14.00000	9.00000	15.00000					Point lies within an excavation.	
	15.00000	9.00000	15.00000					Point lies within an excavation.	
	16.00000	9.00000	15.00000					Point lies within an excavation.	
	17.00000	9.00000	15.00000					Point lies within an excavation.	
	18.00000	9.00000	15.00000					Point lies within an excavation.	
	19.00000	9.00000	15.00000					Point lies within an excavation.	
	20.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	21.00000	9.00000	15.00000					Point lies within an excavation.	
	22.00000	9.00000	15.00000					Point lies within an excavation.	
	23.00000	9.00000	15.00000					Point lies within an excavation.	
	24.00000	9.00000	15.00000					Point lies within an excavation.	
	25.00000	9.00000	15.00000					Point lies within an excavation.	
	26.00000	9.00000	15.00000					Point lies within an excavation.	
	27.00000	9.00000	15.00000					Point lies within an excavation.	
	28.00000	9.00000	15.00000					Point lies within an excavation.	
	29.00000	9.00000	15.00000					Point lies within an excavation.	
	30.00000	9.00000	15.00000					Point lies within an excavation.	
	31.00000	9.00000	15.00000					Point lies within an excavation.	
	32.00000	9.00000	15.00000					Point lies within an excavation.	
	33.00000	9.00000	15.00000					Point lies within an excavation.	
	34.00000	9.00000	15.00000		-4.0000	0.0	1.7795	-	-
	35.00000	9.00000	15.00000		-3.2917	0.0	1.8028	-	-
	36.00000	9.00000	15.00000		-2.5833	0.0	1.4793	-	-
	37.00000	9.00000	15.00000		-1.8750	0.0	1.0836	-	-
	38.00000	9.00000	15.00000		-1.5000	0.0	0.67962	-	-
	39.00000	9.00000	15.00000		-1.1250	0.0	0.33899	-	-
	40.00000	9.00000	15.00000		-0.75000	0.0	0.13175	-	-
	41.00000	9.00000	15.00000		-0.37500	0.0	0.04806	-	-
	42.00000	9.00000	15.00000		0.0	0.0	0.0017174	-	-
	43.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	44.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	45.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	46.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	47.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	48.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	49.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	50.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	51.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	52.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	53.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	54.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	55.00000	9.00000	15.00000		0.0	0.0	0.0	-	-
	-25.00000	10.00000	15.00000		0.0	0.0	0.0	-	-
	-24.00000	10.00000	15.00000		0.0	0.0	0.0	-	-
	-23.00000	10.00000	15.00000		0.0	0.0	0.0	-	-
	-22.00000	10.00000	15.00000		0.0	0.0	0.0	-	-
	-21.00000	10.00000	15.00000		0.0	0.0	0.0	-	-
	-20.00000	10.00000	15.00000		0.0	0.0	0.0	-	-
	-19.00000	10.00000	15.00000		0.0	0.0	0.0	-	-
	-18.00000	10.00000	15.00000		0.0	0.0	0.0038642	-	-
	-17.00000	10.00000	15.00000		0.37500	0.0	0.061035	-	-
	-16.00000	10.00000	15.00000		0.75000	0.0	0.099421	-	-
	-15.00000	10.00000	15.00000		1.1250	0.0	0.14956	-	-
	-14.00000	10.00000	15.00000		1.5000	0.0	0.48501	-	-
	-13.00000	10.00000	15.00000		1.8750	0.0	0.87237	-	-
	-12.00000	10.00000	15.00000		2.2500	0.0	1.3213	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-11.00000	10.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	10.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	10.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	10.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	10.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	10.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	10.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	10.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	10.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	10.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	10.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	10.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	10.00000	15.00000			Point lies within an excavation.		
		2.00000	10.00000	15.00000			Point lies within an excavation.		
		3.00000	10.00000	15.00000			Point lies within an excavation.		
		4.00000	10.00000	15.00000			Point lies within an excavation.		
		5.00000	10.00000	15.00000			Point lies within an excavation.		
		6.00000	10.00000	15.00000			Point lies within an excavation.		
		7.00000	10.00000	15.00000			Point lies within an excavation.		
		8.00000	10.00000	15.00000			Point lies within an excavation.		
		9.00000	10.00000	15.00000			Point lies within an excavation.		
		10.00000	10.00000	15.00000			Point lies within an excavation.		
		11.00000	10.00000	15.00000			Point lies within an excavation.		
		12.00000	10.00000	15.00000			Point lies within an excavation.		
		13.00000	10.00000	15.00000			Point lies within an excavation.		
		14.00000	10.00000	15.00000			Point lies within an excavation.		
		15.00000	10.00000	15.00000			Point lies within an excavation.		
		16.00000	10.00000	15.00000			Point lies within an excavation.		
		17.00000	10.00000	15.00000			Point lies within an excavation.		
		18.00000	10.00000	15.00000			Point lies within an excavation.		
		19.00000	10.00000	15.00000			Point lies within an excavation.		
		20.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	10.00000	15.00000			Point lies within an excavation.		
		22.00000	10.00000	15.00000			Point lies within an excavation.		
		23.00000	10.00000	15.00000			Point lies within an excavation.		
		24.00000	10.00000	15.00000			Point lies within an excavation.		
		25.00000	10.00000	15.00000			Point lies within an excavation.		
		26.00000	10.00000	15.00000			Point lies within an excavation.		
		27.00000	10.00000	15.00000			Point lies within an excavation.		
		28.00000	10.00000	15.00000			Point lies within an excavation.		
		29.00000	10.00000	15.00000			Point lies within an excavation.		
		30.00000	10.00000	15.00000			Point lies within an excavation.		
		31.00000	10.00000	15.00000			Point lies within an excavation.		
		32.00000	10.00000	15.00000			Point lies within an excavation.		
		33.00000	10.00000	15.00000			Point lies within an excavation.		
		34.00000	10.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	10.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	10.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	10.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	10.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	10.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	10.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	10.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	10.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	10.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	11.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	11.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	11.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	11.00000	15.00000	1.12500	0.0	0.14956	-	-
		-14.00000	11.00000	15.00000	1.50000	0.0	0.48501	-	-
		-13.00000	11.00000	15.00000	1.87500	0.0	0.87237	-	-
		-12.00000	11.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	11.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	11.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	11.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	11.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	11.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	11.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	11.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	11.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	11.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	11.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	11.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	11.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	11.00000	15.00000			Point lies within an excavation.		
		2.00000	11.00000	15.00000			Point lies within an excavation.		
		3.00000	11.00000	15.00000			Point lies within an excavation.		
		4.00000	11.00000	15.00000			Point lies within an excavation.		
		5.00000	11.00000	15.00000			Point lies within an excavation.		
		6.00000	11.00000	15.00000			Point lies within an excavation.		
		7.00000	11.00000	15.00000			Point lies within an excavation.		
		8.00000	11.00000	15.00000			Point lies within an excavation.		
		9.00000	11.00000	15.00000			Point lies within an excavation.		
		10.00000	11.00000	15.00000			Point lies within an excavation.		
		11.00000	11.00000	15.00000			Point lies within an excavation.		
		12.00000	11.00000	15.00000			Point lies within an excavation.		
		13.00000	11.00000	15.00000			Point lies within an excavation.		
		14.00000	11.00000	15.00000			Point lies within an excavation.		
		15.00000	11.00000	15.00000			Point lies within an excavation.		
		16.00000	11.00000	15.00000			Point lies within an excavation.		
		17.00000	11.00000	15.00000			Point lies within an excavation.		
		18.00000	11.00000	15.00000			Point lies within an excavation.		
		19.00000	11.00000	15.00000			Point lies within an excavation.		
		20.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	11.00000	15.00000			Point lies within an excavation.		
		22.00000	11.00000	15.00000			Point lies within an excavation.		
		23.00000	11.00000	15.00000			Point lies within an excavation.		
		24.00000	11.00000	15.00000			Point lies within an excavation.		
		25.00000	11.00000	15.00000			Point lies within an excavation.		
		26.00000	11.00000	15.00000			Point lies within an excavation.		
		27.00000	11.00000	15.00000			Point lies within an excavation.		
		28.00000	11.00000	15.00000			Point lies within an excavation.		
		29.00000	11.00000	15.00000			Point lies within an excavation.		
		30.00000	11.00000	15.00000			Point lies within an excavation.		
		31.00000	11.00000	15.00000			Point lies within an excavation.		
		32.00000	11.00000	15.00000			Point lies within an excavation.		
		33.00000	11.00000	15.00000			Point lies within an excavation.		
		34.00000	11.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	11.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	11.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	11.00000	15.00000	-1.8750	0.0	1.0836	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		38.00000	11.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	11.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	11.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	11.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	11.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	11.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	12.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	12.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	12.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	12.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	12.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	12.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	12.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	12.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	12.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	12.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	12.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	12.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	12.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	12.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	12.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	12.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	12.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	12.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	12.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	12.00000	15.00000			Point lies within an excavation.		
		2.00000	12.00000	15.00000			Point lies within an excavation.		
		3.00000	12.00000	15.00000			Point lies within an excavation.		
		4.00000	12.00000	15.00000			Point lies within an excavation.		
		5.00000	12.00000	15.00000			Point lies within an excavation.		
		6.00000	12.00000	15.00000			Point lies within an excavation.		
		7.00000	12.00000	15.00000			Point lies within an excavation.		
		8.00000	12.00000	15.00000			Point lies within an excavation.		
		9.00000	12.00000	15.00000			Point lies within an excavation.		
		10.00000	12.00000	15.00000			Point lies within an excavation.		
		11.00000	12.00000	15.00000			Point lies within an excavation.		
		12.00000	12.00000	15.00000			Point lies within an excavation.		
		13.00000	12.00000	15.00000			Point lies within an excavation.		
		14.00000	12.00000	15.00000			Point lies within an excavation.		
		15.00000	12.00000	15.00000			Point lies within an excavation.		
		16.00000	12.00000	15.00000			Point lies within an excavation.		
		17.00000	12.00000	15.00000			Point lies within an excavation.		
		18.00000	12.00000	15.00000			Point lies within an excavation.		
		19.00000	12.00000	15.00000			Point lies within an excavation.		
		20.00000	12.00000	15.00000	0.0	0.0	-	-	-
		21.00000	12.00000	15.00000			Point lies within an excavation.		
		22.00000	12.00000	15.00000			Point lies within an excavation.		
		23.00000	12.00000	15.00000			Point lies within an excavation.		
		24.00000	12.00000	15.00000			Point lies within an excavation.		
		25.00000	12.00000	15.00000			Point lies within an excavation.		
		26.00000	12.00000	15.00000			Point lies within an excavation.		
		27.00000	12.00000	15.00000			Point lies within an excavation.		
		28.00000	12.00000	15.00000			Point lies within an excavation.		
		29.00000	12.00000	15.00000			Point lies within an excavation.		
		30.00000	12.00000	15.00000			Point lies within an excavation.		
		31.00000	12.00000	15.00000			Point lies within an excavation.		
		32.00000	12.00000	15.00000			Point lies within an excavation.		
		33.00000	12.00000	15.00000			Point lies within an excavation.		
		34.00000	12.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	12.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	12.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	12.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	12.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	12.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	12.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	12.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	12.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	12.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	13.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	13.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	13.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	13.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	13.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	13.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	13.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	13.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	13.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	13.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	13.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	13.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	13.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	13.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	13.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	13.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	13.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	13.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	13.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	13.00000	15.00000			Point lies within an excavation.		
		2.00000	13.00000	15.00000			Point lies within an excavation.		
		3.00000	13.00000	15.00000			Point lies within an excavation.		
		4.00000	13.00000	15.00000			Point lies within an excavation.		
		5.00000	13.00000	15.00000			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
		6.00000	13.00000	15.00000				Point lies within an excavation.	
		7.00000	13.00000	15.00000				Point lies within an excavation.	
		8.00000	13.00000	15.00000				Point lies within an excavation.	
		9.00000	13.00000	15.00000				Point lies within an excavation.	
		10.00000	13.00000	15.00000				Point lies within an excavation.	
		11.00000	13.00000	15.00000				Point lies within an excavation.	
		12.00000	13.00000	15.00000				Point lies within an excavation.	
		13.00000	13.00000	15.00000				Point lies within an excavation.	
		14.00000	13.00000	15.00000				Point lies within an excavation.	
		15.00000	13.00000	15.00000				Point lies within an excavation.	
		16.00000	13.00000	15.00000				Point lies within an excavation.	
		17.00000	13.00000	15.00000				Point lies within an excavation.	
		18.00000	13.00000	15.00000				Point lies within an excavation.	
		19.00000	13.00000	15.00000				Point lies within an excavation.	
		20.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	13.00000	15.00000				Point lies within an excavation.	
		22.00000	13.00000	15.00000				Point lies within an excavation.	
		23.00000	13.00000	15.00000				Point lies within an excavation.	
		24.00000	13.00000	15.00000				Point lies within an excavation.	
		25.00000	13.00000	15.00000				Point lies within an excavation.	
		26.00000	13.00000	15.00000				Point lies within an excavation.	
		27.00000	13.00000	15.00000				Point lies within an excavation.	
		28.00000	13.00000	15.00000				Point lies within an excavation.	
		29.00000	13.00000	15.00000				Point lies within an excavation.	
		30.00000	13.00000	15.00000				Point lies within an excavation.	
		31.00000	13.00000	15.00000				Point lies within an excavation.	
		32.00000	13.00000	15.00000				Point lies within an excavation.	
		33.00000	13.00000	15.00000				Point lies within an excavation.	
		34.00000	13.00000	15.00000	-4.00000	0.0	1.7795	-	-
		35.00000	13.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	13.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	13.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	13.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	13.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	13.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	13.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	13.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	13.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	14.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	14.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	14.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	14.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	14.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	14.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	14.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	14.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	14.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	14.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	14.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	14.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	14.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	14.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	14.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	14.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	14.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	14.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	14.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	14.00000	15.00000				Point lies within an excavation.	
		2.00000	14.00000	15.00000				Point lies within an excavation.	
		3.00000	14.00000	15.00000				Point lies within an excavation.	
		4.00000	14.00000	15.00000				Point lies within an excavation.	
		5.00000	14.00000	15.00000				Point lies within an excavation.	
		6.00000	14.00000	15.00000				Point lies within an excavation.	
		7.00000	14.00000	15.00000				Point lies within an excavation.	
		8.00000	14.00000	15.00000				Point lies within an excavation.	
		9.00000	14.00000	15.00000				Point lies within an excavation.	
		10.00000	14.00000	15.00000				Point lies within an excavation.	
		11.00000	14.00000	15.00000				Point lies within an excavation.	
		12.00000	14.00000	15.00000				Point lies within an excavation.	
		13.00000	14.00000	15.00000				Point lies within an excavation.	
		14.00000	14.00000	15.00000				Point lies within an excavation.	
		15.00000	14.00000	15.00000				Point lies within an excavation.	
		16.00000	14.00000	15.00000				Point lies within an excavation.	
		17.00000	14.00000	15.00000				Point lies within an excavation.	
		18.00000	14.00000	15.00000				Point lies within an excavation.	
		19.00000	14.00000	15.00000				Point lies within an excavation.	
		20.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	14.00000	15.00000				Point lies within an excavation.	
		22.00000	14.00000	15.00000				Point lies within an excavation.	
		23.00000	14.00000	15.00000				Point lies within an excavation.	
		24.00000	14.00000	15.00000				Point lies within an excavation.	
		25.00000	14.00000	15.00000				Point lies within an excavation.	
		26.00000	14.00000	15.00000				Point lies within an excavation.	
		27.00000	14.00000	15.00000				Point lies within an excavation.	
		28.00000	14.00000	15.00000				Point lies within an excavation.	
		29.00000	14.00000	15.00000				Point lies within an excavation.	
		30.00000	14.00000	15.00000				Point lies within an excavation.	
		31.00000	14.00000	15.00000				Point lies within an excavation.	
		32.00000	14.00000	15.00000				Point lies within an excavation.	
		33.00000	14.00000	15.00000				Point lies within an excavation.	
		34.00000	14.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	14.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	14.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	14.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	14.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	14.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	14.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	14.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	14.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	14.00000	15.00000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		55.00000	14.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	15.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	15.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	15.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	15.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	15.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	15.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	15.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	15.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	15.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	15.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	15.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	15.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	15.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	15.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	15.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	15.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	15.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	15.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	15.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	15.00000	15.00000			Point lies within an excavation.		
		2.00000	15.00000	15.00000			Point lies within an excavation.		
		3.00000	15.00000	15.00000			Point lies within an excavation.		
		4.00000	15.00000	15.00000			Point lies within an excavation.		
		5.00000	15.00000	15.00000			Point lies within an excavation.		
		6.00000	15.00000	15.00000			Point lies within an excavation.		
		7.00000	15.00000	15.00000			Point lies within an excavation.		
		8.00000	15.00000	15.00000			Point lies within an excavation.		
		9.00000	15.00000	15.00000			Point lies within an excavation.		
		10.00000	15.00000	15.00000			Point lies within an excavation.		
		11.00000	15.00000	15.00000			Point lies within an excavation.		
		12.00000	15.00000	15.00000			Point lies within an excavation.		
		13.00000	15.00000	15.00000			Point lies within an excavation.		
		14.00000	15.00000	15.00000			Point lies within an excavation.		
		15.00000	15.00000	15.00000			Point lies within an excavation.		
		16.00000	15.00000	15.00000			Point lies within an excavation.		
		17.00000	15.00000	15.00000			Point lies within an excavation.		
		18.00000	15.00000	15.00000			Point lies within an excavation.		
		19.00000	15.00000	15.00000			Point lies within an excavation.		
		20.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	15.00000	15.00000			Point lies within an excavation.		
		22.00000	15.00000	15.00000			Point lies within an excavation.		
		23.00000	15.00000	15.00000			Point lies within an excavation.		
		24.00000	15.00000	15.00000			Point lies within an excavation.		
		25.00000	15.00000	15.00000			Point lies within an excavation.		
		26.00000	15.00000	15.00000			Point lies within an excavation.		
		27.00000	15.00000	15.00000			Point lies within an excavation.		
		28.00000	15.00000	15.00000			Point lies within an excavation.		
		29.00000	15.00000	15.00000			Point lies within an excavation.		
		30.00000	15.00000	15.00000			Point lies within an excavation.		
		31.00000	15.00000	15.00000			Point lies within an excavation.		
		32.00000	15.00000	15.00000			Point lies within an excavation.		
		33.00000	15.00000	15.00000			Point lies within an excavation.		
		34.00000	15.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	15.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	15.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	15.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	15.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	15.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	15.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	15.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	15.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	15.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	16.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	16.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	16.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	16.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	16.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	16.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	16.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	16.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	16.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	16.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	16.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	16.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	16.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	16.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	16.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	16.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	16.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	16.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	16.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	16.00000	15.00000			Point lies within an excavation.		
		2.00000	16.00000	15.00000			Point lies within an excavation.		
		3.00000	16.00000	15.00000			Point lies within an excavation.		
		4.00000	16.00000	15.00000			Point lies within an excavation.		
		5.00000	16.00000	15.00000			Point lies within an excavation.		
		6.00000	16.00000	15.00000			Point lies within an excavation.		
		7.00000	16.00000	15.00000			Point lies within an excavation.		
		8.00000	16.00000	15.00000			Point lies within an excavation.		
		9.00000	16.00000	15.00000			Point lies within an excavation.		
		10.00000	16.00000	15.00000			Point lies within an excavation.		
		11.00000	16.00000	15.00000			Point lies within an excavation.		
		12.00000	16.00000	15.00000			Point lies within an excavation.		
		13.00000	16.00000	15.00000			Point lies within an excavation.		
		14.00000	16.00000	15.00000			Point lies within an excavation.		
		15.00000	16.00000	15.00000			Point lies within an excavation.		
		16.00000	16.00000	15.00000			Point lies within an excavation.		
		17.00000	16.00000	15.00000			Point lies within an excavation.		
		18.00000	16.00000	15.00000			Point lies within an excavation.		
		19.00000	16.00000	15.00000			Point lies within an excavation.		
		20.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	16.00000	15.00000			Point lies within an excavation.		
		22.00000	16.00000	15.00000			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
		23.00000	16.00000	15.00000				Point lies within an excavation.	
		24.00000	16.00000	15.00000				Point lies within an excavation.	
		25.00000	16.00000	15.00000				Point lies within an excavation.	
		26.00000	16.00000	15.00000				Point lies within an excavation.	
		27.00000	16.00000	15.00000				Point lies within an excavation.	
		28.00000	16.00000	15.00000				Point lies within an excavation.	
		29.00000	16.00000	15.00000				Point lies within an excavation.	
		30.00000	16.00000	15.00000				Point lies within an excavation.	
		31.00000	16.00000	15.00000				Point lies within an excavation.	
		32.00000	16.00000	15.00000				Point lies within an excavation.	
		33.00000	16.00000	15.00000				Point lies within an excavation.	
		34.00000	16.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	16.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	16.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	16.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	16.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	16.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	16.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	16.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	16.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	16.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	17.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	17.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	17.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	17.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	17.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	17.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	17.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	17.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	17.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	17.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	17.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	17.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	17.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	17.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	17.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	17.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	17.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	17.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	17.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	17.00000	15.00000				Point lies within an excavation.	
		2.00000	17.00000	15.00000				Point lies within an excavation.	
		3.00000	17.00000	15.00000				Point lies within an excavation.	
		4.00000	17.00000	15.00000				Point lies within an excavation.	
		5.00000	17.00000	15.00000				Point lies within an excavation.	
		6.00000	17.00000	15.00000				Point lies within an excavation.	
		7.00000	17.00000	15.00000				Point lies within an excavation.	
		8.00000	17.00000	15.00000				Point lies within an excavation.	
		9.00000	17.00000	15.00000				Point lies within an excavation.	
		10.00000	17.00000	15.00000				Point lies within an excavation.	
		11.00000	17.00000	15.00000				Point lies within an excavation.	
		12.00000	17.00000	15.00000				Point lies within an excavation.	
		13.00000	17.00000	15.00000				Point lies within an excavation.	
		14.00000	17.00000	15.00000				Point lies within an excavation.	
		15.00000	17.00000	15.00000				Point lies within an excavation.	
		16.00000	17.00000	15.00000				Point lies within an excavation.	
		17.00000	17.00000	15.00000				Point lies within an excavation.	
		18.00000	17.00000	15.00000				Point lies within an excavation.	
		19.00000	17.00000	15.00000				Point lies within an excavation.	
		20.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	17.00000	15.00000				Point lies within an excavation.	
		22.00000	17.00000	15.00000				Point lies within an excavation.	
		23.00000	17.00000	15.00000				Point lies within an excavation.	
		24.00000	17.00000	15.00000				Point lies within an excavation.	
		25.00000	17.00000	15.00000				Point lies within an excavation.	
		26.00000	17.00000	15.00000				Point lies within an excavation.	
		27.00000	17.00000	15.00000				Point lies within an excavation.	
		28.00000	17.00000	15.00000				Point lies within an excavation.	
		29.00000	17.00000	15.00000				Point lies within an excavation.	
		30.00000	17.00000	15.00000				Point lies within an excavation.	
		31.00000	17.00000	15.00000				Point lies within an excavation.	
		32.00000	17.00000	15.00000				Point lies within an excavation.	
		33.00000	17.00000	15.00000				Point lies within an excavation.	
		34.00000	17.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	17.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	17.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	17.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	17.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	17.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	17.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	17.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	17.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	17.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	18.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	18.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	18.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	18.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	18.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	18.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	18.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	18.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	18.00000	15.00000	3.4393	0.0	2.4075	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-9.00000	18.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	18.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	18.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	18.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	18.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	18.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	18.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	18.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	18.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	18.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	18.00000	15.00000			Point lies within an excavation.		
		2.00000	18.00000	15.00000			Point lies within an excavation.		
		3.00000	18.00000	15.00000			Point lies within an excavation.		
		4.00000	18.00000	15.00000			Point lies within an excavation.		
		5.00000	18.00000	15.00000			Point lies within an excavation.		
		6.00000	18.00000	15.00000			Point lies within an excavation.		
		7.00000	18.00000	15.00000			Point lies within an excavation.		
		8.00000	18.00000	15.00000			Point lies within an excavation.		
		9.00000	18.00000	15.00000			Point lies within an excavation.		
		10.00000	18.00000	15.00000			Point lies within an excavation.		
		11.00000	18.00000	15.00000			Point lies within an excavation.		
		12.00000	18.00000	15.00000			Point lies within an excavation.		
		13.00000	18.00000	15.00000			Point lies within an excavation.		
		14.00000	18.00000	15.00000			Point lies within an excavation.		
		15.00000	18.00000	15.00000			Point lies within an excavation.		
		16.00000	18.00000	15.00000			Point lies within an excavation.		
		17.00000	18.00000	15.00000			Point lies within an excavation.		
		18.00000	18.00000	15.00000			Point lies within an excavation.		
		19.00000	18.00000	15.00000			Point lies within an excavation.		
		20.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	18.00000	15.00000			Point lies within an excavation.		
		22.00000	18.00000	15.00000			Point lies within an excavation.		
		23.00000	18.00000	15.00000			Point lies within an excavation.		
		24.00000	18.00000	15.00000			Point lies within an excavation.		
		25.00000	18.00000	15.00000			Point lies within an excavation.		
		26.00000	18.00000	15.00000			Point lies within an excavation.		
		27.00000	18.00000	15.00000			Point lies within an excavation.		
		28.00000	18.00000	15.00000			Point lies within an excavation.		
		29.00000	18.00000	15.00000			Point lies within an excavation.		
		30.00000	18.00000	15.00000			Point lies within an excavation.		
		31.00000	18.00000	15.00000			Point lies within an excavation.		
		32.00000	18.00000	15.00000			Point lies within an excavation.		
		33.00000	18.00000	15.00000			Point lies within an excavation.		
		34.00000	18.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	18.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	18.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	18.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	18.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	18.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	18.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	18.00000	15.00000	-0.37500	0.0	0.048906	-	-
		42.00000	18.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	18.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	19.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	19.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	19.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	19.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	19.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	19.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	19.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	19.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	19.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	19.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	19.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	19.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	19.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	19.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	19.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	19.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	19.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	19.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	19.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	19.00000	15.00000			Point lies within an excavation.		
		2.00000	19.00000	15.00000			Point lies within an excavation.		
		3.00000	19.00000	15.00000			Point lies within an excavation.		
		4.00000	19.00000	15.00000			Point lies within an excavation.		
		5.00000	19.00000	15.00000			Point lies within an excavation.		
		6.00000	19.00000	15.00000			Point lies within an excavation.		
		7.00000	19.00000	15.00000			Point lies within an excavation.		
		8.00000	19.00000	15.00000			Point lies within an excavation.		
		9.00000	19.00000	15.00000			Point lies within an excavation.		
		10.00000	19.00000	15.00000			Point lies within an excavation.		
		11.00000	19.00000	15.00000			Point lies within an excavation.		
		12.00000	19.00000	15.00000			Point lies within an excavation.		
		13.00000	19.00000	15.00000			Point lies within an excavation.		
		14.00000	19.00000	15.00000			Point lies within an excavation.		
		15.00000	19.00000	15.00000			Point lies within an excavation.		
		16.00000	19.00000	15.00000			Point lies within an excavation.		
		17.00000	19.00000	15.00000			Point lies within an excavation.		
		18.00000	19.00000	15.00000			Point lies within an excavation.		
		19.00000	19.00000	15.00000			Point lies within an excavation.		
		20.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	19.00000	15.00000			Point lies within an excavation.		
		22.00000	19.00000	15.00000			Point lies within an excavation.		
		23.00000	19.00000	15.00000			Point lies within an excavation.		
		24.00000	19.00000	15.00000			Point lies within an excavation.		
		25.00000	19.00000	15.00000			Point lies within an excavation.		
		26.00000	19.00000	15.00000			Point lies within an excavation.		
		27.00000	19.00000	15.00000			Point lies within an excavation.		
		28.00000	19.00000	15.00000			Point lies within an excavation.		
		29.00000	19.00000	15.00000			Point lies within an excavation.		
		30.00000	19.00000	15.00000			Point lies within an excavation.		
		31.00000	19.00000	15.00000			Point lies within an excavation.		
		32.00000	19.00000	15.00000			Point lies within an excavation.		
		33.00000	19.00000	15.00000			Point lies within an excavation.		
		34.00000	19.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	19.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	19.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	19.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	19.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	19.00000	15.00000	-1.1250	0.0	0.33899	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		40.00000	19.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	19.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	19.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	19.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	20.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	20.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	20.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	20.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	20.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	20.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	20.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	20.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	20.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	20.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	20.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	20.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	20.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	20.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	20.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	20.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	20.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	20.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	20.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	20.00000	15.00000			Point lies within an excavation.		
		2.00000	20.00000	15.00000			Point lies within an excavation.		
		3.00000	20.00000	15.00000			Point lies within an excavation.		
		4.00000	20.00000	15.00000			Point lies within an excavation.		
		5.00000	20.00000	15.00000			Point lies within an excavation.		
		6.00000	20.00000	15.00000			Point lies within an excavation.		
		7.00000	20.00000	15.00000			Point lies within an excavation.		
		8.00000	20.00000	15.00000			Point lies within an excavation.		
		9.00000	20.00000	15.00000			Point lies within an excavation.		
		10.00000	20.00000	15.00000			Point lies within an excavation.		
		11.00000	20.00000	15.00000			Point lies within an excavation.		
		12.00000	20.00000	15.00000			Point lies within an excavation.		
		13.00000	20.00000	15.00000			Point lies within an excavation.		
		14.00000	20.00000	15.00000			Point lies within an excavation.		
		15.00000	20.00000	15.00000			Point lies within an excavation.		
		16.00000	20.00000	15.00000			Point lies within an excavation.		
		17.00000	20.00000	15.00000			Point lies within an excavation.		
		18.00000	20.00000	15.00000			Point lies within an excavation.		
		19.00000	20.00000	15.00000			Point lies within an excavation.		
		20.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	20.00000	15.00000			Point lies within an excavation.		
		22.00000	20.00000	15.00000			Point lies within an excavation.		
		23.00000	20.00000	15.00000			Point lies within an excavation.		
		24.00000	20.00000	15.00000			Point lies within an excavation.		
		25.00000	20.00000	15.00000			Point lies within an excavation.		
		26.00000	20.00000	15.00000			Point lies within an excavation.		
		27.00000	20.00000	15.00000			Point lies within an excavation.		
		28.00000	20.00000	15.00000			Point lies within an excavation.		
		29.00000	20.00000	15.00000			Point lies within an excavation.		
		30.00000	20.00000	15.00000			Point lies within an excavation.		
		31.00000	20.00000	15.00000			Point lies within an excavation.		
		32.00000	20.00000	15.00000			Point lies within an excavation.		
		33.00000	20.00000	15.00000			Point lies within an excavation.		
		34.00000	20.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	20.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	20.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	20.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	20.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	20.00000	15.00000	-1.1250	0.0	0.3389	-	-
		40.00000	20.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	20.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	20.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	20.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	21.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	21.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	21.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	21.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	21.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	21.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	21.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	21.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	21.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	21.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	21.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	21.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	21.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	21.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	21.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	21.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	21.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	21.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	21.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	21.00000	15.00000			Point lies within an excavation.		
		2.00000	21.00000	15.00000			Point lies within an excavation.		
		3.00000	21.00000	15.00000			Point lies within an excavation.		
		4.00000	21.00000	15.00000			Point lies within an excavation.		
		5.00000	21.00000	15.00000			Point lies within an excavation.		
		6.00000	21.00000	15.00000			Point lies within an excavation.		
		7.00000	21.00000	15.00000			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
		8.00000	21.00000	15.00000				Point lies within an excavation.	
		9.00000	21.00000	15.00000				Point lies within an excavation.	
		10.00000	21.00000	15.00000				Point lies within an excavation.	
		11.00000	21.00000	15.00000				Point lies within an excavation.	
		12.00000	21.00000	15.00000				Point lies within an excavation.	
		13.00000	21.00000	15.00000				Point lies within an excavation.	
		14.00000	21.00000	15.00000				Point lies within an excavation.	
		15.00000	21.00000	15.00000				Point lies within an excavation.	
		16.00000	21.00000	15.00000				Point lies within an excavation.	
		17.00000	21.00000	15.00000				Point lies within an excavation.	
		18.00000	21.00000	15.00000				Point lies within an excavation.	
		19.00000	21.00000	15.00000				Point lies within an excavation.	
		20.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	21.00000	15.00000				Point lies within an excavation.	
		22.00000	21.00000	15.00000				Point lies within an excavation.	
		23.00000	21.00000	15.00000				Point lies within an excavation.	
		24.00000	21.00000	15.00000				Point lies within an excavation.	
		25.00000	21.00000	15.00000				Point lies within an excavation.	
		26.00000	21.00000	15.00000				Point lies within an excavation.	
		27.00000	21.00000	15.00000				Point lies within an excavation.	
		28.00000	21.00000	15.00000				Point lies within an excavation.	
		29.00000	21.00000	15.00000				Point lies within an excavation.	
		30.00000	21.00000	15.00000				Point lies within an excavation.	
		31.00000	21.00000	15.00000				Point lies within an excavation.	
		32.00000	21.00000	15.00000				Point lies within an excavation.	
		33.00000	21.00000	15.00000				Point lies within an excavation.	
		34.00000	21.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	21.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	21.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	21.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	21.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	21.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	21.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	21.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	21.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	21.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	22.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	22.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	22.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	22.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	22.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	22.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	22.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	22.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	22.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	22.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	22.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	22.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	22.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	22.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	22.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	22.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	22.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	22.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	22.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	22.00000	15.00000				Point lies within an excavation.	
		2.00000	22.00000	15.00000				Point lies within an excavation.	
		3.00000	22.00000	15.00000				Point lies within an excavation.	
		4.00000	22.00000	15.00000				Point lies within an excavation.	
		5.00000	22.00000	15.00000				Point lies within an excavation.	
		6.00000	22.00000	15.00000				Point lies within an excavation.	
		7.00000	22.00000	15.00000				Point lies within an excavation.	
		8.00000	22.00000	15.00000				Point lies within an excavation.	
		9.00000	22.00000	15.00000				Point lies within an excavation.	
		10.00000	22.00000	15.00000				Point lies within an excavation.	
		11.00000	22.00000	15.00000				Point lies within an excavation.	
		12.00000	22.00000	15.00000				Point lies within an excavation.	
		13.00000	22.00000	15.00000				Point lies within an excavation.	
		14.00000	22.00000	15.00000				Point lies within an excavation.	
		15.00000	22.00000	15.00000				Point lies within an excavation.	
		16.00000	22.00000	15.00000				Point lies within an excavation.	
		17.00000	22.00000	15.00000				Point lies within an excavation.	
		18.00000	22.00000	15.00000				Point lies within an excavation.	
		19.00000	22.00000	15.00000				Point lies within an excavation.	
		20.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	22.00000	15.00000				Point lies within an excavation.	
		22.00000	22.00000	15.00000				Point lies within an excavation.	
		23.00000	22.00000	15.00000				Point lies within an excavation.	
		24.00000	22.00000	15.00000				Point lies within an excavation.	
		25.00000	22.00000	15.00000				Point lies within an excavation.	
		26.00000	22.00000	15.00000				Point lies within an excavation.	
		27.00000	22.00000	15.00000				Point lies within an excavation.	
		28.00000	22.00000	15.00000				Point lies within an excavation.	
		29.00000	22.00000	15.00000				Point lies within an excavation.	
		30.00000	22.00000	15.00000				Point lies within an excavation.	
		31.00000	22.00000	15.00000				Point lies within an excavation.	
		32.00000	22.00000	15.00000				Point lies within an excavation.	
		33.00000	22.00000	15.00000				Point lies within an excavation.	
		34.00000	22.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	22.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	22.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	22.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	22.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	22.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	22.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	22.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	22.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	22.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	23.00000	15.00000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-24.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	23.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	23.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	23.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	23.00000	15.00000	1.12500	0.0	0.14956	-	-
		-14.00000	23.00000	15.00000	1.50000	0.0	0.48501	-	-
		-13.00000	23.00000	15.00000	1.87500	0.0	0.87237	-	-
		-12.00000	23.00000	15.00000	2.25000	0.0	1.3213	-	-
		-11.00000	23.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	23.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	23.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	23.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	23.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	23.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	23.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	23.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	23.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	23.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	23.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	23.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	23.00000	15.00000				Point lies within an excavation.	
		2.00000	23.00000	15.00000				Point lies within an excavation.	
		3.00000	23.00000	15.00000				Point lies within an excavation.	
		4.00000	23.00000	15.00000				Point lies within an excavation.	
		5.00000	23.00000	15.00000				Point lies within an excavation.	
		6.00000	23.00000	15.00000				Point lies within an excavation.	
		7.00000	23.00000	15.00000				Point lies within an excavation.	
		8.00000	23.00000	15.00000				Point lies within an excavation.	
		9.00000	23.00000	15.00000				Point lies within an excavation.	
		10.00000	23.00000	15.00000				Point lies within an excavation.	
		11.00000	23.00000	15.00000				Point lies within an excavation.	
		12.00000	23.00000	15.00000				Point lies within an excavation.	
		13.00000	23.00000	15.00000				Point lies within an excavation.	
		14.00000	23.00000	15.00000				Point lies within an excavation.	
		15.00000	23.00000	15.00000				Point lies within an excavation.	
		16.00000	23.00000	15.00000				Point lies within an excavation.	
		17.00000	23.00000	15.00000				Point lies within an excavation.	
		18.00000	23.00000	15.00000				Point lies within an excavation.	
		19.00000	23.00000	15.00000				Point lies within an excavation.	
		20.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	23.00000	15.00000				Point lies within an excavation.	
		22.00000	23.00000	15.00000				Point lies within an excavation.	
		23.00000	23.00000	15.00000				Point lies within an excavation.	
		24.00000	23.00000	15.00000				Point lies within an excavation.	
		25.00000	23.00000	15.00000				Point lies within an excavation.	
		26.00000	23.00000	15.00000				Point lies within an excavation.	
		27.00000	23.00000	15.00000				Point lies within an excavation.	
		28.00000	23.00000	15.00000				Point lies within an excavation.	
		29.00000	23.00000	15.00000				Point lies within an excavation.	
		30.00000	23.00000	15.00000				Point lies within an excavation.	
		31.00000	23.00000	15.00000				Point lies within an excavation.	
		32.00000	23.00000	15.00000				Point lies within an excavation.	
		33.00000	23.00000	15.00000				Point lies within an excavation.	
		34.00000	23.00000	15.00000	-4.00000	0.0	1.7795	-	-
		35.00000	23.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	23.00000	15.00000	-2.5823	0.0	1.4793	-	-
		37.00000	23.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	23.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	23.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	23.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	23.00000	15.00000	-0.37500	0.0	0.048906	-	-
		42.00000	23.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	23.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	24.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	24.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	24.00000	15.00000	0.75000	0.0	0.099421	-	-
		-15.00000	24.00000	15.00000	1.12500	0.0	0.14956	-	-
		-14.00000	24.00000	15.00000	1.50000	0.0	0.48501	-	-
		-13.00000	24.00000	15.00000	1.87500	0.0	0.87237	-	-
		-12.00000	24.00000	15.00000	2.25000	0.0	1.3213	-	-
		-11.00000	24.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	24.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	24.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	24.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	24.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	24.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	24.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	24.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	24.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	24.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	24.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	24.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	24.00000	15.00000				Point lies within an excavation.	
		2.00000	24.00000	15.00000				Point lies within an excavation.	
		3.00000	24.00000	15.00000				Point lies within an excavation.	
		4.00000	24.00000	15.00000				Point lies within an excavation.	
		5.00000	24.00000	15.00000				Point lies within an excavation.	
		6.00000	24.00000	15.00000				Point lies within an excavation.	
		7.00000	24.00000	15.00000				Point lies within an excavation.	
		8.00000	24.00000	15.00000				Point lies within an excavation.	
		9.00000	24.00000	15.00000				Point lies within an excavation.	
		10.00000	24.00000	15.00000				Point lies within an excavation.	
		11.00000	24.00000	15.00000				Point lies within an excavation.	
		12.00000	24.00000	15.00000				Point lies within an excavation.	
		13.00000	24.00000	15.00000				Point lies within an excavation.	
		14.00000	24.00000	15.00000				Point lies within an excavation.	
		15.00000	24.00000	15.00000				Point lies within an excavation.	
		16.00000	24.00000	15.00000				Point lies within an excavation.	
		17.00000	24.00000	15.00000				Point lies within an excavation.	
		18.00000	24.00000	15.00000				Point lies within an excavation.	
		19.00000	24.00000	15.00000				Point lies within an excavation.	
		20.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	24.00000	15.00000				Point lies within an excavation.	
		22.00000	24.00000	15.00000				Point lies within an excavation.	
		23.00000	24.00000	15.00000				Point lies within an excavation.	
		24.00000	24.00000	15.00000				Point lies within an excavation.	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
		25.00000	24.00000	15.00000				Point lies within an excavation.	
		26.00000	24.00000	15.00000				Point lies within an excavation.	
		27.00000	24.00000	15.00000				Point lies within an excavation.	
		28.00000	24.00000	15.00000				Point lies within an excavation.	
		29.00000	24.00000	15.00000				Point lies within an excavation.	
		30.00000	24.00000	15.00000				Point lies within an excavation.	
		31.00000	24.00000	15.00000				Point lies within an excavation.	
		32.00000	24.00000	15.00000				Point lies within an excavation.	
		33.00000	24.00000	15.00000				Point lies within an excavation.	
		34.00000	24.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	24.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	24.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	24.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	24.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	24.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	24.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	24.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	24.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	24.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	25.00000	15.00000	0.0	0.0	0.0038642	-	-
		-17.00000	25.00000	15.00000	0.37500	0.0	0.061035	-	-
		-16.00000	25.00000	15.00000	0.75000	0.0	0.094421	-	-
		-15.00000	25.00000	15.00000	1.1250	0.0	0.14956	-	-
		-14.00000	25.00000	15.00000	1.5000	0.0	0.48501	-	-
		-13.00000	25.00000	15.00000	1.8750	0.0	0.87237	-	-
		-12.00000	25.00000	15.00000	2.2500	0.0	1.3213	-	-
		-11.00000	25.00000	15.00000	2.7141	0.0	1.8344	-	-
		-10.00000	25.00000	15.00000	3.4393	0.0	2.4075	-	-
		-9.00000	25.00000	15.00000	4.1693	0.0	3.0291	-	-
		-8.00000	25.00000	15.00000	4.9152	0.0	3.6812	-	-
		-7.00000	25.00000	15.00000	5.6885	0.0	4.3385	-	-
		-6.00000	25.00000	15.00000	6.5004	0.0	4.9688	-	-
		-5.00000	25.00000	15.00000	7.3624	0.0	5.5330	-	-
		-4.00000	25.00000	15.00000	8.2856	0.0	5.9849	-	-
		-3.00000	25.00000	15.00000	9.2814	0.0	6.2716	-	-
		-2.00000	25.00000	15.00000	10.361	0.0	6.3329	-	-
		-1.00000	25.00000	15.00000	11.536	0.0	6.1019	-	-
		0.00000	25.00000	15.00000	12.818	0.0	5.5046	-	-
		1.00000	25.00000	15.00000				Point lies within an excavation.	
		2.00000	25.00000	15.00000				Point lies within an excavation.	
		3.00000	25.00000	15.00000				Point lies within an excavation.	
		4.00000	25.00000	15.00000				Point lies within an excavation.	
		5.00000	25.00000	15.00000				Point lies within an excavation.	
		6.00000	25.00000	15.00000				Point lies within an excavation.	
		7.00000	25.00000	15.00000				Point lies within an excavation.	
		8.00000	25.00000	15.00000				Point lies within an excavation.	
		9.00000	25.00000	15.00000				Point lies within an excavation.	
		10.00000	25.00000	15.00000				Point lies within an excavation.	
		11.00000	25.00000	15.00000				Point lies within an excavation.	
		12.00000	25.00000	15.00000				Point lies within an excavation.	
		13.00000	25.00000	15.00000				Point lies within an excavation.	
		14.00000	25.00000	15.00000				Point lies within an excavation.	
		15.00000	25.00000	15.00000				Point lies within an excavation.	
		16.00000	25.00000	15.00000				Point lies within an excavation.	
		17.00000	25.00000	15.00000				Point lies within an excavation.	
		18.00000	25.00000	15.00000				Point lies within an excavation.	
		19.00000	25.00000	15.00000				Point lies within an excavation.	
		20.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		21.00000	25.00000	15.00000				Point lies within an excavation.	
		22.00000	25.00000	15.00000				Point lies within an excavation.	
		23.00000	25.00000	15.00000				Point lies within an excavation.	
		24.00000	25.00000	15.00000				Point lies within an excavation.	
		25.00000	25.00000	15.00000				Point lies within an excavation.	
		26.00000	25.00000	15.00000				Point lies within an excavation.	
		27.00000	25.00000	15.00000				Point lies within an excavation.	
		28.00000	25.00000	15.00000				Point lies within an excavation.	
		29.00000	25.00000	15.00000				Point lies within an excavation.	
		30.00000	25.00000	15.00000				Point lies within an excavation.	
		31.00000	25.00000	15.00000				Point lies within an excavation.	
		32.00000	25.00000	15.00000				Point lies within an excavation.	
		33.00000	25.00000	15.00000				Point lies within an excavation.	
		34.00000	25.00000	15.00000	-4.0000	0.0	1.7795	-	-
		35.00000	25.00000	15.00000	-3.2917	0.0	1.8028	-	-
		36.00000	25.00000	15.00000	-2.5833	0.0	1.4793	-	-
		37.00000	25.00000	15.00000	-1.8750	0.0	1.0836	-	-
		38.00000	25.00000	15.00000	-1.5000	0.0	0.67962	-	-
		39.00000	25.00000	15.00000	-1.1250	0.0	0.33899	-	-
		40.00000	25.00000	15.00000	-0.75000	0.0	0.13175	-	-
		41.00000	25.00000	15.00000	-0.37500	0.0	0.048806	-	-
		42.00000	25.00000	15.00000	0.0	0.0	0.0017174	-	-
		43.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	25.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	26.00000	15.00000	0.0	0.0	0.0025890	-	-
		-17.00000	26.00000	15.00000	0.25125	0.0	0.040894	-	-
		-16.00000	26.00000	15.00000	0.50250	0.0	0.066612	-	-
		-15.00000	26.00000	15.00000	0.75375	0.0	0.10020	-	-
		-14.00000	26.00000	15.00000	1.0050	0.0	0.32495	-	-
		-13.00000	26.00000	15.00000	1.2562	0.0	0.58449	-	-
		-12.00000	26.00000	15.00000	1.5075	0.0	0.88526	-	-
		-11.00000	26.00000	15.00000	1.8184	0.0	1.2291	-	-
		-10.00000	26.00000	15.00000	2.3044	0.0	1.6130	-	-
		-9.00000	26.00000	15.00000	2.7934	0.0	2.0295	-	-
		-8.00000	26.00000	15.00000	3.2932	0.0	2.4664	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-7.00000	26.00000	15.00000	3.8113	0.0	2.9068	-	-
		-6.00000	26.00000	15.00000	4.3553	0.0	3.3291	-	-
		-5.00000	26.00000	15.00000	4.9328	0.0	3.7071	-	-
		-4.00000	26.00000	15.00000	5.5513	0.0	4.0099	-	-
		-3.00000	26.00000	15.00000	6.2185	0.0	4.2020	-	-
		-2.00000	26.00000	15.00000	6.9419	-9.0	4.2431	-	-
		-1.00000	26.00000	15.00000	7.7292	0.0	4.0883	-	-
		0.00000	26.00000	15.00000	4.2939	-3.0150	3.1854	-	-
		1.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		2.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		3.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		4.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		5.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		6.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		7.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		8.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		9.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		10.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		11.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		12.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		13.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		14.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		15.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		16.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		17.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		18.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		19.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		20.00000	26.00000	15.00000	0.0	-6.0300	2.6827	-	-
		21.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		22.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		23.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		24.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		25.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		26.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		27.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		28.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		29.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		30.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		31.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		32.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		33.00000	26.00000	15.00000	0.0	-9.0000	4.0040	-	-
		34.00000	26.00000	15.00000	-1.3400	-3.0150	1.9375	-	-
		35.00000	26.00000	15.00000	-2.2054	0.0	1.2079	-	-
		36.00000	26.00000	15.00000	-1.7308	0.0	0.99113	-	-
		37.00000	26.00000	15.00000	-1.2562	0.0	0.72598	-	-
		38.00000	26.00000	15.00000	-1.0050	0.0	0.45534	-	-
		39.00000	26.00000	15.00000	-0.75375	0.0	0.22712	-	-
		40.00000	26.00000	15.00000	-0.50250	0.0	0.088272	-	-
		41.00000	26.00000	15.00000	-0.25125	0.0	0.032700	-	-
		42.00000	26.00000	15.00000	0.0	0.0	0.0011507	-	-
		43.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	26.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	27.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	27.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	27.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	27.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	27.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	27.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	27.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	27.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	27.00000	15.00000	0.23243	-0.0068074	0.039299	-	-
		-16.00000	27.00000	15.00000	0.47001	-0.014669	0.064458	-	-
		-15.00000	27.00000	15.00000	0.70578	-0.023573	0.096654	-	-
		-14.00000	27.00000	15.00000	0.93935	-0.033743	0.30363	-	-
		-13.00000	27.00000	15.00000	1.1702	-0.045468	0.54757	-	-
		-12.00000	27.00000	15.00000	1.3977	-0.059133	0.82890	-	-
		-11.00000	27.00000	15.00000	1.6664	-0.075261	1.1485	-	-
		-10.00000	27.00000	15.00000	2.0987	-0.094583	1.5024	-	-
		-9.00000	27.00000	15.00000	2.5218	-0.11815	1.8817	-	-
		-8.00000	27.00000	15.00000	2.9379	-0.14751	2.2723	-	-
		-7.00000	27.00000	15.00000	3.3463	-0.18511	2.6544	-	-
		-6.00000	27.00000	15.00000	3.7411	-0.24662	3.0042	-	-
		-5.00000	27.00000	15.00000	4.1060	-0.33856	3.2890	-	-
		-4.00000	27.00000	15.00000	4.4026	-0.47407	3.4703	-	-
		-3.00000	27.00000	15.00000	4.5384	-0.69234	3.4955	-	-
		-2.00000	27.00000	15.00000	4.2620	-1.0945	3.2759	-	-
		-1.00000	27.00000	15.00000	2.7593	-1.9996	2.6077	-	-
		0.00000	27.00000	15.00000	0.0	-5.5554	2.8171	-	-
		1.00000	27.00000	15.00000	0.0	-8.2917	4.2046	-	-
		2.00000	27.00000	15.00000	0.0	-8.2917	4.2046	-	-
		3.00000	27.00000	15.00000	0.0	-8.2985	4.2057	-	-
		4.00000	27.00000	15.00000	0.0	-8.3063	4.2065	-	-
		5.00000	27.00000	15.00000	0.0	-8.3152	4.2077	-	-
		6.00000	27.00000	15.00000	0.0	-8.3254	4.2098	-	-
		7.00000	27.00000	15.00000	0.0	-8.3371	4.2135	-	-
		8.00000	27.00000	15.00000	0.0	-8.3508	4.2194	-	-
		9.00000	27.00000	15.00000	0.0	-8.3669	4.2283	-	-
		10.00000	27.00000	15.00000	0.0	-8.3862	4.2407	-	-
		11.00000	27.00000	15.00000	0.0	-8.4098	4.2577	-	-
		12.00000	27.00000	15.00000	0.0	-8.4392	4.2800	-	-
		13.00000	27.00000	15.00000	0.0	-8.4768	4.3089	-	-
		14.00000	27.00000	15.00000	0.0	-8.5383	4.3477	-	-
		15.00000	27.00000	15.00000	0.0	-8.6302	4.3997	-	-
		16.00000	27.00000	15.00000	0.0	-8.7657	4.4748	-	-
		17.00000	27.00000	15.00000	0.0	-8.9840	4.5935	-	-
		18.00000	27.00000	15.00000	0.0	-9.3862	4.8037	-	-
		19.00000	27.00000	15.00000	0.0	-10.291	5.2528	-	-
		20.00000	27.00000	15.00000	0.0	-11.111	5.6341	-	-
		21.00000	27.00000	15.00000	0.0	-10.291	5.2528	-	-
		22.00000	27.00000	15.00000	0.0	-9.3862	4.8037	-	-
		23.00000	27.00000	15.00000	0.0	-8.9840	4.5935	-	-
		24.00000	27.00000	15.00000	0.0	-8.7657	4.4748	-	-
		25.00000	27.00000	15.00000	0.0	-8.6302	4.3997	-	-
		26.00000	27.00000	15.00000	0.0	-8.5383	4.3477	-	-
		27.00000	27.00000	15.00000	0.0	-8.4768	4.3089	-	-
		28.00000	27.00000	15.00000	0.0	-8.4392	4.2800	-	-
		29.00000	27.00000	15.00000	0.0	-8.4098	4.2577	-	-
		30.00000	27.00000	15.00000	0.0	-8.3862	4.2407	-	-
		31.00000	27.00000	15.00000	0.0	-8.3669	4.2283	-	-
		32.00000	27.00000	15.00000	0.0	-8.3508	4.2194	-	-
		33.00000	27.00000	15.00000	0.0	-8.3371	4.2135	-	-
		34.00000	27.00000	15.00000	0.0	-5.5892	2.8223	-	-
		35.00000	27.00000	15.00000	-0.74957	-2.0231	1.4726	-	-
		36.00000	27.00000	15.00000	-1.0197	-1.1092	1.1884	-	-
		37.00000	27.00000	15.00000	-0.90324	-0.69915	0.89736	-	-
		38.00000	27.00000	15.00000	-0.78361	-0.47407	0.61097	-	-
		39.00000	27.00000	15.00000	-0.61404	-0.33856	0.37126	-	-
		40.00000	27.00000	15.00000	-0.41821	-0.24662	0.21344	-	-
		41.00000	27.00000	15.00000	-0.20696	-0.18511	0.13155	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line		
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		42.00000	27.00000	15.00000	0.0	-0.14751	0.075436	-	-	-
		43.00000	27.00000	15.00000	0.0	-0.11815	0.053101	-	-	-
		44.00000	27.00000	15.00000	0.0	-0.094583	0.036169	-	-	-
		45.00000	27.00000	15.00000	0.0	-0.075261	0.023696	-	-	-
		46.00000	27.00000	15.00000	0.0	-0.059133	0.014866	-	-	-
		47.00000	27.00000	15.00000	0.0	-0.045468	0.0089441	-	-	-
		48.00000	27.00000	15.00000	0.0	-0.033743	0.0052465	-	-	-
		49.00000	27.00000	15.00000	0.0	-0.023573	0.0031239	-	-	-
		50.00000	27.00000	15.00000	0.0	-0.014669	0.0019508	-	-	-
		51.00000	27.00000	15.00000	0.0	-0.0068074	0.0011182	-	-	-
		52.00000	27.00000	15.00000	0.0	0.0	0.0	-	-	-
		53.00000	27.00000	15.00000	0.0	0.0	0.0	-	-	-
		54.00000	27.00000	15.00000	0.0	0.0	0.0	-	-	-
		55.00000	27.00000	15.00000	0.0	0.0	0.0	-	-	-
		-25.00000	28.00000	15.00000	0.0	0.0	0.0	-	-	-
		-24.00000	28.00000	15.00000	0.0	0.0	0.0	-	-	-
		-23.00000	28.00000	15.00000	0.0	0.0	0.0	-	-	-
		-22.00000	28.00000	15.00000	0.0	0.0	0.0	-	-	-
		-21.00000	28.00000	15.00000	0.0	0.0	0.0	-	-	-
		-20.00000	28.00000	15.00000	0.0	0.0	0.0	-	-	-
		-19.00000	28.00000	15.00000	0.0	0.0	0.0	-	-	-
		-18.00000	28.00000	15.00000	0.0	0.0	0.0	-	-	-
		-17.00000	28.00000	15.00000	0.20106	-0.012340	0.036077	-	-	-
		-16.00000	28.00000	15.00000	0.42445	-0.027839	0.060809	-	-	-
		-15.00000	28.00000	15.00000	0.64418	-0.045366	0.090623	-	-	-
		-14.00000	28.00000	15.00000	0.85951	-0.065343	0.126807	-	-	-
		-13.00000	28.00000	15.00000	1.0694	-0.088319	0.169305	-	-	-
		-12.00000	28.00000	15.00000	1.2727	-0.11502	0.215083	-	-	-
		-11.00000	28.00000	15.00000	1.4821	-0.14641	0.261417	-	-	-
		-10.00000	28.00000	15.00000	1.8602	-0.18383	0.313608	-	-	-
		-9.00000	28.00000	15.00000	2.21617	-0.222918	0.371549	-	-	-
		-8.00000	28.00000	15.00000	2.5492	-0.28522	0.439305	-	-	-
		-7.00000	28.00000	15.00000	2.8500	-0.35611	0.513630	-	-	-
		-6.00000	28.00000	15.00000	3.1032	-0.46293	0.59436	-	-	-
		-5.00000	28.00000	15.00000	3.2767	-0.62806	0.68478	-	-	-
		-4.00000	28.00000	15.00000	3.3095	-0.86074	0.79359	-	-	-
		-3.00000	28.00000	15.00000	3.0824	-1.2065	0.8593	-	-	-
		-2.00000	28.00000	15.00000	2.3651	-1.7491	0.5503	-	-	-
		-1.00000	28.00000	15.00000	1.4903	-3.1300	2.6494	-	-	-
		0.00000	28.00000	15.00000	0.0	-5.0808	2.7538	-	-	-
		1.00000	28.00000	15.00000	0.0	-7.5833	4.1102	-	-	-
		2.00000	28.00000	15.00000	0.0	-7.5833	4.1102	-	-	-
		3.00000	28.00000	15.00000	0.0	-7.5957	4.1122	-	-	-
		4.00000	28.00000	15.00000	0.0	-7.6112	4.1139	-	-	-
		5.00000	28.00000	15.00000	0.0	-7.6287	4.1161	-	-	-
		6.00000	28.00000	15.00000	0.0	-7.6487	4.1201	-	-	-
		7.00000	28.00000	15.00000	0.0	-7.6717	4.1270	-	-	-
		8.00000	28.00000	15.00000	0.0	-7.6983	4.1382	-	-	-
		9.00000	28.00000	15.00000	0.0	-7.7297	4.1549	-	-	-
		10.00000	28.00000	15.00000	0.0	-7.7672	4.1786	-	-	-
		11.00000	28.00000	15.00000	0.0	-7.8125	4.2107	-	-	-
		12.00000	28.00000	15.00000	0.0	-7.8686	4.2529	-	-	-
		13.00000	28.00000	15.00000	0.0	-7.9394	4.3073	-	-	-
		14.00000	28.00000	15.00000	0.0	-8.0463	4.3788	-	-	-
		15.00000	28.00000	15.00000	0.0	-8.2114	4.4731	-	-	-
		16.00000	28.00000	15.00000	0.0	-8.4441	4.6029	-	-	-
		17.00000	28.00000	15.00000	0.0	-8.7898	4.7931	-	-	-
		18.00000	28.00000	15.00000	0.0	-9.3325	5.0855	-	-	-
		19.00000	28.00000	15.00000	0.0	-10.713	5.8235	-	-	-
		20.00000	28.00000	15.00000	0.0	-10.162	5.5076	-	-	-
		21.00000	28.00000	15.00000	0.0	-10.713	5.8235	-	-	-
		22.00000	28.00000	15.00000	0.0	-9.3325	5.0855	-	-	-
		23.00000	28.00000	15.00000	0.0	-8.7898	4.7931	-	-	-
		24.00000	28.00000	15.00000	0.0	-8.4441	4.6029	-	-	-
		25.00000	28.00000	15.00000	0.0	-8.2114	4.4731	-	-	-
		26.00000	28.00000	15.00000	0.0	-8.0463	4.3788	-	-	-
		27.00000	28.00000	15.00000	0.0	-7.9394	4.3073	-	-	-
		28.00000	28.00000	15.00000	0.0	-7.8686	4.2529	-	-	-
		29.00000	28.00000	15.00000	0.0	-7.8125	4.2107	-	-	-
		30.00000	28.00000	15.00000	0.0	-7.7672	4.1786	-	-	-
		31.00000	28.00000	15.00000	0.0	-7.7297	4.1549	-	-	-
		32.00000	28.00000	15.00000	0.0	-7.6983	4.1382	-	-	-
		33.00000	28.00000	15.00000	0.0	-7.6717	4.1270	-	-	-
		34.00000	28.00000	15.00000	0.0	-5.1462	2.7637	-	-	-
		35.00000	28.00000	15.00000	-0.35658	-3.1754	1.9247	-	-	-
		36.00000	28.00000	15.00000	-0.49913	-1.7770	1.2687	-	-	-
		37.00000	28.00000	15.00000	-0.58593	-1.2188	0.98299	-	-	-
		38.00000	28.00000	15.00000	-0.55836	-0.86074	0.70578	-	-	-
		39.00000	28.00000	15.00000	-0.45745	-0.62806	0.47593	-	-	-
		40.00000	28.00000	15.00000	-0.31285	-0.46293	0.31540	-	-	-
		41.00000	28.00000	15.00000	-0.14070	-0.35611	0.21683	-	-	-
		42.00000	28.00000	15.00000	0.0	-0.28522	0.14275	-	-	-
		43.00000	28.00000	15.00000	0.0	-0.22918	0.10052	-	-	-
		44.00000	28.00000	15.00000	0.0	-0.18383	0.068435	-	-	-
		45.00000	28.00000	15.00000	0.0	-0.14641	0.044787	-	-	-
		46.00000	28.00000	15.00000	0.0	-0.11502	0.028067	-	-	-
		47.00000	28.00000	15.00000	0.0	-0.088319	0.016887	-	-	-
		48.00000	28.00000	15.00000	0.0	-0.065343	0.0099371	-	-	-
		49.00000	28.00000	15.00000	0.0	-0.045366	0.0059622	-	-	-
		50.00000	28.00000	15.00000	0.0	-0.027839	0.0037429	-	-	-
		51.00000	28.00000	15.00000	0.0	-0.012340	0.0020862	-	-	-
		52.00000	28.00000	15.00000	0.0	0.0	0.0	-	-	-
		53.00000	28.00000	15.00000	0.0	0.0	0.0	-	-	-
		54.00000	28.00000	15.00000	0.0	0.0	0.0	-	-	-
		55.00000	28.00000	15.00000	0.0	0.0	0.0	-	-	-
		-25.00000	29.00000	15.00000	0.0	0.0	0.0	-	-	0.0
		-24.00000	29.00000	15.00000	0.0	0.0	0.0	-	-	-
		-23.00000	29.00000	15.00000	0.0	0.0	0.0	-	-	-
		-22.00000	29.00000	15.00000	0.0	0.0	0.0	-	-	-
		-21.00000	29.00000	15.00000	0.0	0.0	0.0	-	-	-
		-20.00000	29.00000	15.00000	0.0	0.0	0.0	-	-	0.0
		-19.00000	29.00000	15.00000	0.0	0.0	0.0	-	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line		
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		10.00000	29.00000	15.00000	0.0	-7.1380	3.9426	-	-	-
		11.00000	29.00000	15.00000	0.0	-7.2020	3.9866	-	-	-
		12.00000	29.00000	15.00000	0.0	-7.2800	4.0444	-	-	-
		13.00000	29.00000	15.00000	0.0	-7.3769	4.1183	-	-	-
		14.00000	29.00000	15.00000	0.0	-7.5020	4.2117	-	-	-
		15.00000	29.00000	15.00000	0.0	-7.7127	4.3348	-	-	-
		16.00000	29.00000	15.00000	0.0	-7.9930	4.4928	-	-	-
		17.00000	29.00000	15.00000	0.0	-8.3737	4.7047	-	-	-
		18.00000	29.00000	15.00000	0.0	-9.1670	5.1465	-	-	-
		19.00000	29.00000	15.00000	0.0	-10.241	5.7400	-	-	-
		20.00000	29.00000	15.00000	0.0	-9.2125	5.1578	-	-	-
		21.00000	29.00000	15.00000	0.0	-10.241	5.7400	-	-	-
		22.00000	29.00000	15.00000	0.0	-9.1670	5.1465	-	-	-
		23.00000	29.00000	15.00000	0.0	-8.3737	4.7047	-	-	-
		24.00000	29.00000	15.00000	0.0	-7.9930	4.4928	-	-	-
		25.00000	29.00000	15.00000	0.0	-7.7127	4.3348	-	-	-
		26.00000	29.00000	15.00000	0.0	-7.5020	4.2117	-	-	-
		27.00000	29.00000	15.00000	0.0	-7.3769	4.1183	-	-	-
		28.00000	29.00000	15.00000	0.0	-7.2800	4.0444	-	-	-
		29.00000	29.00000	15.00000	0.0	-7.2020	3.9866	-	-	-
		30.00000	29.00000	15.00000	0.0	-7.1380	3.9426	-	-	-
		31.00000	29.00000	15.00000	0.0	-7.0847	3.9102	-	-	-
		32.00000	29.00000	15.00000	0.0	-7.0397	3.8873	-	-	-
		33.00000	29.00000	15.00000	0.0	-7.0011	3.8721	-	-	-
		34.00000	29.00000	15.00000	0.0	-4.6990	2.5925	-	-	-
		35.00000	29.00000	15.00000	-0.18580	-3.4298	2.0036	-	-	-
		36.00000	29.00000	15.00000	-0.30844	-2.3300	1.4595	-	-	-
		37.00000	29.00000	15.00000	-0.35225	-1.5141	1.0052	-	-	-
		38.00000	29.00000	15.00000	-0.36662	-1.1180	0.75419	-	-	-
		39.00000	29.00000	15.00000	-0.30991	-0.83770	0.54549	-	-	-
		40.00000	29.00000	15.00000	-0.20446	-0.62659	0.38954	-	-	-
		41.00000	29.00000	15.00000	-0.065340	-0.50187	0.28031	-	-	-
		42.00000	29.00000	15.00000	0.0	-0.40495	0.19529	-	-	-
		43.00000	29.00000	15.00000	0.0	-0.32696	0.13756	-	-	-
		44.00000	29.00000	15.00000	0.0	-0.26300	0.093553	-	-	-
		45.00000	29.00000	15.00000	0.0	-0.20970	0.061114	-	-	-
		46.00000	29.00000	15.00000	0.0	-0.16465	0.038236	-	-	-
		47.00000	29.00000	15.00000	0.0	-0.12611	0.023019	-	-	-
		48.00000	29.00000	15.00000	0.0	-0.092781	0.013632	-	-	-
		49.00000	29.00000	15.00000	0.0	-0.063688	0.0082880	-	-	-
		50.00000	29.00000	15.00000	0.0	-0.038080	0.0052341	-	-	-
		51.00000	29.00000	15.00000	0.0	-0.015373	0.0027379	-	-	-
		52.00000	29.00000	15.00000	0.0	0.0	0.0	-	-	-
		53.00000	29.00000	15.00000	0.0	0.0	0.0	-	-	-
		54.00000	29.00000	15.00000	0.0	0.0	0.0	-	-	-
		55.00000	29.00000	15.00000	0.0	0.0	0.0	-	-	-
		-25.00000	30.00000	15.00000	0.0	0.0	0.0	-	-	-
		-24.00000	30.00000	15.00000	0.0	0.0	0.0	-	-	-
		-23.00000	30.00000	15.00000	0.0	0.0	0.0	-	-	-
		-22.00000	30.00000	15.00000	0.0	0.0	0.0	-	-	-
		-21.00000	30.00000	15.00000	0.0	0.0	0.0	-	-	-
		-20.00000	30.00000	15.00000	0.0	0.0	0.0	-	-	-
		-19.00000	30.00000	15.00000	0.0	0.0	0.0	-	-	-
		-18.00000	30.00000	15.00000	0.0	0.0	0.0	-	-	-
		-17.00000	30.00000	15.00000	0.10978	-0.014778	0.024144	-	-	-
		-16.00000	30.00000	15.00000	0.30472	-0.044085	0.049843	-	-	-
		-15.00000	30.00000	15.00000	0.49266	-0.077016	0.073755	-	-	-
		-14.00000	30.00000	15.00000	0.67227	-0.11427	0.16806	-	-	-
		-13.00000	30.00000	15.00000	0.84184	-0.15672	0.34967	-	-	-
		-12.00000	30.00000	15.00000	0.99916	-0.20551	0.55373	-	-	-
		-11.00000	30.00000	15.00000	1.1414	-0.26208	0.78021	-	-	-
		-10.00000	30.00000	15.00000	1.3440	-0.32837	1.0243	-	-	-
		-9.00000	30.00000	15.00000	1.5841	-0.40692	1.2765	-	-	-
		-8.00000	30.00000	15.00000	1.7770	-0.50118	1.5225	-	-	-
		-7.00000	30.00000	15.00000	1.9101	-0.61583	1.7433	-	-	-
		-6.00000	30.00000	15.00000	1.9636	-0.75725	1.9154	-	-	-
		-5.00000	30.00000	15.00000	1.9069	-0.95886	2.0157	-	-	-
		-4.00000	30.00000	15.00000	1.6975	-1.2483	2.0160	-	-	-
		-3.00000	30.00000	15.00000	1.5081	-1.7788	2.1575	-	-	-
		-2.00000	30.00000	15.00000	1.1573	-2.4616	2.2634	-	-	-
		-1.00000	30.00000	15.00000	0.63695	-3.2768	2.3310	-	-	-
		0.00000	30.00000	15.00000	0.0	-4.1317	2.3518	-	-	-
		1.00000	30.00000	15.00000	0.0	-6.1667	3.5101	-	-	-
		2.00000	30.00000	15.00000	0.0	-6.1667	3.5101	-	-	-
		3.00000	30.00000	15.00000	0.0	-6.1814	3.5130	-	-	-
		4.00000	30.00000	15.00000	0.0	-6.2108	3.5164	-	-	-
		5.00000	30.00000	15.00000	0.0	-6.2437	3.5201	-	-	-
		6.00000	30.00000	15.00000	0.0	-6.2809	3.5262	-	-	-
		7.00000	30.00000	15.00000	0.0	-6.3234	3.5370	-	-	-
		8.00000	30.00000	15.00000	0.0	-6.3722	3.5547	-	-	-
		9.00000	30.00000	15.00000	0.0	-6.4287	3.5814	-	-	-
		10.00000	30.00000	15.00000	0.0	-6.4950	3.6196	-	-	-
		11.00000	30.00000	15.00000	0.0	-6.5736	3.6713	-	-	-
		12.00000	30.00000	15.00000	0.0	-6.6678	3.7390	-	-	-
		13.00000	30.00000	15.00000	0.0	-6.7825	3.8251	-	-	-
		14.00000	30.00000	15.00000	0.0	-6.9239	3.9319	-	-	-
		15.00000	30.00000	15.00000	0.0	-7.1255	4.0664	-	-	-
		16.00000	30.00000	15.00000	0.0	-7.4149	4.2331	-	-	-
		17.00000	30.00000	15.00000	0.0	-7.9454	4.5343	-	-	-
		18.00000	30.00000	15.00000	0.0	-8.6282	4.9192	-	-	-
		19.00000	30.00000	15.00000	0.0	-9.4435	5.3782	-	-	-
		20.00000	30.00000	15.00000	0.0	-8.2633	4.7036	-	-	-
		21.00000	30.00000	15.00000	0.0	-9.4435	5.3782	-	-	-
		22.00000	30.00000	15.00000	0.0	-8.6282	4.9192	-	-	-
		23.00000	30.00000	15.00000	0.0	-7.9454	4.5343	-	-	-
		24.00000	30.00000	15.00000	0.0	-7.4149	4.2331	-	-	-
		25.00000	30.00000	15.00000	0.0	-7.1255	4.0664	-	-	-
		26.00000	30.00000	15.00000	0.0	-6.9239	3.9319	-	-	-
		27.00000	30.00000	15.00000	0.0	-6.7825	3.8251	-	-	-
		28.00000	30.00000	15.00000	0.0	-6.6678	3.7390	-	-	-
		29.00000	30.00000	15.00000	0.0	-6.5736	3.6713	-	-	-
		30.00000	30.00000	15.00000	0.0	-6.4950	3.6196	-	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.	Coordinates			Displacements			Angle of Line			
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		-22.00000	31.00000	15.00000	0.0	0.0	0.0	-	-	-
		-21.00000	31.00000	15.00000	0.0	0.0	0.0	-	-	-
		-20.00000	31.00000	15.00000	0.0	0.0	0.0	-	-	-
		-19.00000	31.00000	15.00000	0.0	0.0	0.0	-	-	-
		-18.00000	31.00000	15.00000	0.0	0.0	0.0	-	-	-
		-17.00000	31.00000	15.00000	0.054279	-0.0095590	0.014473	-	-	-
		-16.00000	31.00000	15.00000	0.23565	-0.044721	0.042659	-	-	-
		-15.00000	31.00000	15.00000	0.40867	-0.084056	0.064339	-	-	-
		-14.00000	31.00000	15.00000	0.57182	-0.12832	0.11073	-	-	-
		-13.00000	31.00000	15.00000	0.72319	-0.17845	0.27037	-	-	-
		-12.00000	31.00000	15.00000	0.86040	-0.23562	0.44711	-	-	-
		-11.00000	31.00000	15.00000	0.98042	-0.30132	0.64127	-	-	-
		-10.00000	31.00000	15.0000	1.0902	-0.37743	0.84867	-	-	-
		-9.00000	31.00000	15.0000	1.2862	-0.46635	1.0608	-	-	-
		-8.00000	31.00000	15.0000	1.4299	-0.57116	1.2650	-	-	-
		-7.00000	31.00000	15.0000	1.5100	-0.69577	1.4447	-	-	-
		-6.00000	31.00000	15.0000	1.5102	-0.84502	1.5804	-	-	-
		-5.00000	31.00000	15.0000	1.4081	-1.0246	1.6506	-	-	-
		-4.00000	31.00000	15.0000	1.3247	-1.3803	1.8146	-	-	-
		-3.00000	31.00000	15.0000	1.1426	-1.8554	1.9480	-	-	-
		-2.00000	31.0000	15.0000	0.85071	-2.4191	2.0432	-	-	-
		-1.00000	31.0000	15.0000	0.45708	-3.0413	2.0972	-	-	-
		0.00000	31.00000	15.0000	0.0	-3.6571	2.1056	-	-	-
		1.00000	31.00000	15.0000	0.0	-5.4583	3.1426	-	-	-
		2.00000	31.00000	15.0000	0.0	-5.4583	3.1426	-	-	-
		3.00000	31.00000	15.00000	0.0	-5.4679	3.1448	-	-	-
		4.00000	31.00000	15.0000	0.0	-5.5031	3.1494	-	-	-
		5.00000	31.00000	15.0000	0.0	-5.5424	3.1536	-	-	-
		6.00000	31.00000	15.0000	0.0	-5.5867	3.1599	-	-	-
		7.00000	31.00000	15.0000	0.0	-5.6368	3.1710	-	-	-
		8.00000	31.00000	15.0000	0.0	-5.6940	3.1894	-	-	-
		9.00000	31.00000	15.0000	0.0	-5.7597	3.2176	-	-	-
		10.00000	31.00000	15.0000	0.0	-5.8358	3.2581	-	-	-
		11.00000	31.00000	15.0000	0.0	-5.9247	3.3131	-	-	-
		12.00000	31.00000	15.0000	0.0	-6.0295	3.3850	-	-	-
		13.00000	31.00000	15.0000	0.0	-6.1541	3.4756	-	-	-
		14.00000	31.00000	15.0000	0.0	-6.3034	3.5869	-	-	-
		15.00000	31.00000	15.0000	0.0	-6.4829	3.7201	-	-	-
		16.00000	31.00000	15.0000	0.0	-6.8386	3.9434	-	-	-
		17.00000	31.00000	15.00000	0.0	-7.3137	4.2185	-	-	-
		18.00000	31.00000	15.0000	0.0	-7.8775	4.5407	-	-	-
		19.00000	31.00000	15.0000	0.0	-8.4996	4.8954	-	-	-
		20.00000	31.00000	15.0000	0.0	-7.3142	4.2111	-	-	-
		21.00000	31.00000	15.0000	0.0	-8.4996	4.8954	-	-	-
		22.00000	31.00000	15.0000	0.0	-7.8775	4.5407	-	-	-
		23.00000	31.00000	15.0000	0.0	-7.3137	4.2185	-	-	-
		24.00000	31.00000	15.0000	0.0	-6.8386	3.9434	-	-	-
		25.00000	31.00000	15.0000	0.0	-6.4829	3.7201	-	-	-
		26.00000	31.00000	15.0000	0.0	-6.3034	3.5869	-	-	-
		27.00000	31.00000	15.0000	0.0	-6.1541	3.4756	-	-	-
		28.00000	31.00000	15.0000	0.0	-6.0295	3.3850	-	-	-
		29.00000	31.00000	15.0000	0.0	-5.9247	3.3131	-	-	-
		30.00000	31.00000	15.0000	0.0	-5.8358	3.2581	-	-	-
		31.00000	31.00000	15.00000	0.0	-5.7597	3.2176	-	-	-
		32.00000	31.00000	15.0000	0.0	-5.6940	3.1894	-	-	-
		33.00000	31.00000	15.0000	0.0	-5.6368	3.1710	-	-	-
		34.00000	31.00000	15.0000	0.0	-3.7854	2.1229	-	-	-
		35.00000	31.00000	15.00000	-0.068354	-3.1254	1.7834	-	-	-
		36.00000	31.00000	15.00000	-0.11876	-2.4639	1.4342	-	-	-
		37.00000	31.00000	15.0000	-0.13992	-1.8650	1.1050	-	-	-
		38.00000	31.00000	15.0000	-0.12861	-1.3803	0.81934	-	-	-
		39.00000	31.00000	15.0000	-0.087087	-1.0246	0.58896	-	-	-
		40.00000	31.00000	15.0000	-0.021239	-0.84502	0.44862	-	-	-
		41.00000	31.00000	15.0000	0.0	-0.69577	0.33300	-	-	-
		42.00000	31.00000	15.0000	0.0	-0.57116	0.24233	-	-	-
		43.00000	31.00000	15.0000	0.0	-0.46635	0.17049	-	-	-
		44.00000	31.00000	15.0000	0.0	-0.37743	0.11546	-	-	-
		45.00000	31.00000	15.00000	0.0	-0.30132	0.075005	-	-	-
		46.00000	31.00000	15.0000	0.0	-0.23562	0.046795	-	-	-
		47.00000	31.00000	15.0000	0.0	-0.17845	0.028396	-	-	-
		48.00000	31.00000	15.0000	0.0	-0.12832	0.017308	-	-	-
		49.00000	31.00000	15.0000	0.0	-0.084056	0.010976	-	-	-
		50.00000	31.00000	15.00000	0.0	-0.044721	0.0068043	-	-	-
		51.00000	31.00000	15.0000	0.0	-0.0095590	0.0021672	-	-	-
		52.00000	31.00000	15.0000	0.0	0.0	0.0	-	-	-
		53.00000	31.00000	15.0000	0.0	0.0	0.0	-	-	-
		54.00000	31.0000	15.0000	0.0	0.0	0.0	-	-	-
		55.00000	31.0000	15.0000	0.0	0.0	0.0	-	-	-
		-25.00000	32.00000	15.0000	0.0	0.0	0.0	-	-	-
		-24.00000	32.00000	15.0000	0.0	0.0	0.0	-	-	-
		-23.00000	32.00000	15.0000	0.0	0.0	0.0	-	-	-
		-22.00000	32.00000	15.00000	0.0	0.0	0.0	-	-	-
		-21.00000	32.00000	15.0000	0.0	0.0	0.0	-	-	-
		-20.00000	32.00000	15.0000	0.0	0.0	0.0	-	-	-
		-19.00000	32.00000	15.0000	0.0	0.0	0.0	-	-	-
		-18.00000	32.00000	15.0000	0.0	0.0	0.0	-	-	-
		-17.00000	32.0000	15.0000	0.0	0.0	0.0	-	-	-
		-16.00000	32.00000	15.0000	0.16352	-0.039056	0.033915	-	-	-
		-15.00000	32.00000	15.0000	0.32269	-0.083777	0.054869	-	-	-
		-14.00000	32.00000	15.0000	0.47079	-0.13380	0.078941	-	-	-
		-13.00000	32.00000	15.0000	0.60585	-0.19006	0.19177	-	-	-
		-12.00000	32.00000	15.0000	0.72546	-0.25367	0.34259	-	-	-
		-11.00000	32.00000	15.0000	0.82660	-0.32604	0.50613	-	-	-
		-10.00000	32.00000	15.0000	0.90557	-0.40886	0.67916	-	-	-
		-9.00000	32.00000	15.0000	1.0124	-0.50418	0.85456	-	-	-
		-8.00000	32.00000	15.00000	1.1208	-0.61450	1.0216	-	-	-
		-7.00000	32.00000	15.0000	1.1666	-0.74270	1.1667	-	-	-
		-6.00000	32.00000	15.0000	1.1376	-0.89200	1.2740	-	-	-
		-5.00000	32.00000	15.0000	1.1189	-1.1405	1.4414	-	-	-
		-4.00000	32.00000	15.0000	1.0336	-1.4385	1.5875	-	-	-
		-3.00000	32.00000	15.0000	0.87383	-1.7931	1.7050	-	-	-
		-2.00000	32.00000	15.0000	0.63826	-2.2507	1.7946	-	-	-
		-1.00000	32.00000	15.0000	0.33809	-2.7				



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.	Coordinates			Displacements			Angle of Line			
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		27.00000	32.00000	15.00000	0.0	-5.4927	3.0821	-	-	-
		28.00000	32.00000	15.00000	0.0	-5.3645	2.9935	-	-	-
		29.00000	32.00000	15.00000	0.0	-5.2542	2.9228	-	-	-
		30.00000	32.00000	15.00000	0.0	-5.1589	2.8687	-	-	-
		31.00000	32.00000	15.00000	0.0	-5.0760	2.8292	-	-	-
		32.00000	32.00000	15.00000	0.0	-5.0037	2.8018	-	-	-
		33.00000	32.00000	15.00000	0.0	-4.9401	2.7843	-	-	-
		34.00000	32.00000	15.00000	0.0	-3.3163	1.8642	-	-	-
		35.00000	32.00000	15.00000	-0.037795	-2.8127	1.6015	-	-	-
		36.00000	32.00000	15.00000	-0.064347	-2.2898	1.3223	-	-	-
		37.00000	32.00000	15.00000	-0.071493	-1.7931	1.0464	-	-	-
		38.00000	32.00000	15.00000	-0.055371	-1.4385	0.80883	-	-	-
		39.00000	32.00000	15.00000	-0.015736	-1.1405	0.60287	-	-	-
		40.00000	32.00000	15.00000	0.0	-0.89200	0.43343	-	-	-
		41.00000	32.00000	15.00000	0.0	-0.74270	0.32576	-	-	-
		42.00000	32.00000	15.00000	0.0	-0.61450	0.23709	-	-	-
		43.00000	32.00000	15.00000	0.0	-0.50418	0.16647	-	-	-
		44.00000	32.00000	15.00000	0.0	-0.40886	0.11235	-	-	-
		45.00000	32.00000	15.00000	0.0	-0.32604	0.072779	-	-	-
		46.00000	32.00000	15.00000	0.0	-0.25367	0.045469	-	-	-
		47.00000	32.00000	15.00000	0.0	-0.19006	0.027923	-	-	-
		48.00000	32.00000	15.00000	0.0	-0.13380	0.017470	-	-	-
		49.00000	32.00000	15.00000	0.0	-0.083777	0.011309	-	-	-
		50.00000	32.00000	15.00000	0.0	-0.039056	0.0065385	-	-	-
		51.00000	32.00000	15.00000	0.0	0.0	0.0	-	-	-
		52.00000	32.00000	15.00000	0.0	0.0	0.0	-	-	-
		53.00000	32.00000	15.00000	0.0	0.0	0.0	-	-	-
		54.00000	32.00000	15.00000	0.0	0.0	0.0	-	-	-
		55.00000	32.00000	15.00000	0.0	0.0	0.0	-	-	-
		-25.00000	33.00000	15.00000	0.0	0.0	0.0	-	-	-
		-24.00000	33.00000	15.00000	0.0	0.0	0.0	-	-	-
		-23.00000	33.00000	15.00000	0.0	0.0	0.0	-	-	-
		-22.00000	33.00000	15.00000	0.0	0.0	0.0	-	-	-
		-21.00000	33.00000	15.00000	0.0	0.0	0.0	-	-	-
		-20.00000	33.00000	15.00000	0.0	0.0	0.0	-	-	-
		-19.00000	33.00000	15.00000	0.0	0.0	0.0	-	-	-
		-18.00000	33.00000	15.00000	0.0	0.0	0.0	-	-	-
		-17.00000	33.00000	15.00000	0.0	0.0	0.0	-	-	-
		-16.00000	33.00000	15.00000	0.090299	-0.026374	0.022616	-	-	-
		-15.00000	33.00000	15.00000	0.23687	-0.075418	0.045197	-	-	-
		-14.00000	33.00000	15.00000	0.37155	-0.12992	0.065034	-	-	-
		-13.00000	33.00000	15.00000	0.49239	-0.19075	0.11719	-	-	-
		-12.00000	33.00000	15.00000	0.59704	-0.25892	0.24462	-	-	-
		-11.00000	33.00000	15.00000	0.68272	-0.33564	0.38027	-	-	-
		-10.00000	33.00000	15.00000	0.74607	-0.42234	0.52213	-	-	-
		-9.00000	33.00000	15.00000	0.78313	-0.52064	0.66468	-	-	-
		-8.00000	33.00000	15.00000	0.85180	-0.63236	0.79934	-	-	-
		-7.00000	33.00000	15.00000	0.87807	-0.75942	0.91521	-	-	-
		-6.00000	33.00000	15.00000	0.90406	-0.95835	1.0721	-	-	-
		-5.00000	33.00000	15.00000	0.88121	-1.1923	1.2194	-	-	-
		-4.00000	33.00000	15.00000	0.80445	-1.4623	1.3493	-	-	-
		-3.00000	33.00000	15.00000	0.67128	-1.7659	1.4543	-	-	-
		-2.00000	33.00000	15.00000	0.48443	-2.0951	1.5281	-	-	-
		-1.00000	33.00000	15.00000	0.25440	-2.4349	1.5663	-	-	-
		0.00000	33.00000	15.00000	0.0	-2.7637	1.5668	-	-	-
		1.00000	33.00000	15.00000	0.0	-4.1250	2.3385	-	-	-
		2.00000	33.00000	15.00000	0.0	-4.1250	2.3385	-	-	-
		3.00000	33.00000	15.00000	0.0	-4.1250	2.3385	-	-	-
		4.00000	33.00000	15.00000	0.0	-4.1514	2.3436	-	-	-
		5.00000	33.00000	15.00000	0.0	-4.2004	2.3494	-	-	-
		6.00000	33.00000	15.00000	0.0	-4.2549	2.3553	-	-	-
		7.00000	33.00000	15.00000	0.0	-4.3157	2.3646	-	-	-
		8.00000	33.00000	15.00000	0.0	-4.3839	2.3800	-	-	-
		9.00000	33.00000	15.00000	0.0	-4.4606	2.4045	-	-	-
		10.00000	33.00000	15.00000	0.0	-4.5473	2.4405	-	-	-
		11.00000	33.00000	15.00000	0.0	-4.6456	2.4902	-	-	-
		12.00000	33.00000	15.00000	0.0	-4.7574	2.5553	-	-	-
		13.00000	33.00000	15.00000	0.0	-4.8844	2.6367	-	-	-
		14.00000	33.00000	15.00000	0.0	-5.0833	2.7588	-	-	-
		15.00000	33.00000	15.00000	0.0	-5.3173	2.9091	-	-	-
		16.00000	33.00000	15.00000	0.0	-5.5873	3.0863	-	-	-
		17.00000	33.00000	15.00000	0.0	-5.8909	3.2857	-	-	-
		18.00000	33.00000	15.00000	0.0	-6.2201	3.4984	-	-	-
		19.00000	33.00000	15.00000	0.0	-6.5599	3.7109	-	-	-
		20.00000	33.00000	15.00000	0.0	-5.5275	3.1336	-	-	-
		21.00000	33.00000	15.00000	0.0	-6.5599	3.7109	-	-	-
		22.00000	33.00000	15.00000	0.0	-6.2201	3.4984	-	-	-
		23.00000	33.00000	15.00000	0.0	-5.8909	3.2857	-	-	-
		24.00000	33.00000	15.00000	0.0	-5.5873	3.0863	-	-	-
		25.00000	33.00000	15.00000	0.0	-5.3173	2.9091	-	-	-
		26.00000	33.00000	15.00000	0.0	-5.0833	2.7588	-	-	-
		27.00000	33.00000	15.00000	0.0	-4.8844	2.6367	-	-	-
		28.00000	33.00000	15.00000	0.0	-4.7574	2.5553	-	-	-
		29.00000	33.00000	15.00000	0.0	-4.6456	2.4902	-	-	-
		30.00000	33.00000	15.00000	0.0	-4.5473	2.4405	-	-	-
		31.00000	33.00000	15.00000	0.0	-4.4606	2.4045	-	-	-
		32.00000	33.00000	15.00000	0.0	-4.3839	2.3800	-	-	-
		33.00000	33.00000	15.00000	0.0	-4.3157	2.3646	-	-	-
		34.00000	33.00000	15.00000	0.0	-2.8937	1.5836	-	-	-
		35.00000	33.00000	15.00000	-0.015734	-2.5103	1.3854	-	-	-
		36.00000	33.00000	15.00000	-0.023914	-2.1215	1.1684	-	-	-
		37.00000	33.00000	15.00000	-0.018570	-1.7659	0.95034	-	-	-
		38.00000	33.00000	15.00000	0.0	-1.4623	0.74778	-	-	-
		39.00000	33.00000	15.00000	0.0	-1.1923	0.57062	-	-	-
		40.00000	33.00000	15.00000	0.0	-0.95835	0.42034	-	-	-
		41.00000	33.00000	15.00000	0.0	-0.75942	0.29822	-	-	-
		42.00000	33.00000	15.00000	0.0	-0.63236	0.21677	-	-	-
		43.00000	33.00000	15.00000	0.0	-0.52064	0.15173	-	-	-
		44.00000	33.00000	15.00000	0.0	-0.42234	0.10205	-	-	-
		45.00000	33.00000	15.00000	0.0	-0.33564	0.066025	-	-	-
		46.00000	33.00000	15.00000	0.0	-0.25892	0.041529	-	-	-
		47.00000	33.00000	15.00000	0.0	-0.19075	0.026060	-	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
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Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-5.00000	34.00000	15.00000	0.68477	-1.1927	0.99576	-	-
		-4.00000	34.00000	15.00000	0.62137	-1.4333	1.1069	-	-
		-3.00000	34.00000	15.00000	0.51467	-1.6955	1.1973	-	-
		-2.00000	34.00000	15.00000	0.36880	-1.9715	1.2611	-	-
		-1.00000	34.00000	15.00000	0.19270	-2.2490	1.2942	-	-
		0.00000	34.00000	15.00000	0.0	-2.5125	1.2939	-	-
		1.00000	34.00000	15.00000	0.0	-3.7500	1.9312	-	-
		2.00000	34.00000	15.00000	0.0	-3.7500	1.9312	-	-
		3.00000	34.00000	15.00000	0.0	-3.7500	1.9312	-	-
		4.00000	34.00000	15.00000	0.0	-3.7562	1.9330	-	-
		5.00000	34.00000	15.00000	0.0	-3.8085	1.9407	-	-
		6.00000	34.00000	15.00000	0.0	-3.8662	1.9468	-	-
		7.00000	34.00000	15.00000	0.0	-3.9301	1.9547	-	-
		8.00000	34.00000	15.00000	0.0	-4.0011	1.9674	-	-
		9.00000	34.00000	15.00000	0.0	-4.0801	1.9878	-	-
		10.00000	34.00000	15.00000	0.0	-4.1682	2.0184	-	-
		11.00000	34.00000	15.00000	0.0	-4.2668	2.0611	-	-
		12.00000	34.00000	15.00000	0.0	-4.3768	2.1175	-	-
		13.00000	34.00000	15.00000	0.0	-4.5393	2.2018	-	-
		14.00000	34.00000	15.00000	0.0	-4.7276	2.3084	-	-
		15.00000	34.00000	15.00000	0.0	-4.9427	2.4372	-	-
		16.00000	34.00000	15.00000	0.0	-5.1833	2.5858	-	-
		17.00000	34.00000	15.00000	0.0	-5.4455	2.7489	-	-
		18.00000	34.00000	15.00000	0.0	-5.7215	2.9179	-	-
		19.00000	34.00000	15.00000	0.0	-5.9990	3.0813	-	-
		20.00000	34.00000	15.00000	0.0	-5.0250	2.5878	-	-
		21.00000	34.00000	15.00000	0.0	-5.9990	3.0813	-	-
		22.00000	34.00000	15.00000	0.0	-5.7215	2.9179	-	-
		23.00000	34.00000	15.00000	0.0	-5.4455	2.7489	-	-
		24.00000	34.00000	15.00000	0.0	-5.1833	2.5858	-	-
		25.00000	34.00000	15.00000	0.0	-4.9427	2.4372	-	-
		26.00000	34.00000	15.00000	0.0	-4.7276	2.3084	-	-
		27.00000	34.00000	15.00000	0.0	-4.5393	2.2018	-	-
		28.00000	34.00000	15.00000	0.0	-4.3768	2.1175	-	-
		29.00000	34.00000	15.00000	0.0	-4.2668	2.0611	-	-
		30.00000	34.00000	15.00000	0.0	-4.1682	2.0184	-	-
		31.00000	34.00000	15.00000	0.0	-4.0801	1.9878	-	-
		32.00000	34.00000	15.00000	0.0	-4.0011	1.9674	-	-
		33.00000	34.00000	15.00000	0.0	-3.9301	1.9547	-	-
		34.00000	34.00000	15.00000	0.0	-2.6287	1.3095	-	-
		35.00000	34.00000	15.00000	0.0	-2.3075	1.1596	-	-
		36.00000	34.00000	15.00000	0.0	-1.9776	0.98852	-	-
		37.00000	34.00000	15.00000	0.0	-1.6955	0.81766	-	-
		38.00000	34.00000	15.00000	0.0	-1.4333	0.65459	-	-
		39.00000	34.00000	15.00000	0.0	-1.1927	0.50601	-	-
		40.00000	34.00000	15.00000	0.0	-0.97768	0.37719	-	-
		41.00000	34.00000	15.00000	0.0	-0.78931	0.27057	-	-
		42.00000	34.00000	15.00000	0.0	-0.62684	0.18627	-	-
		43.00000	34.00000	15.00000	0.0	-0.51681	0.12993	-	-
		44.00000	34.00000	15.00000	0.0	-0.41831	0.087184	-	-
		45.00000	34.00000	15.00000	0.0	-0.33014	0.056610	-	-
		46.00000	34.00000	15.00000	0.0	-0.25112	0.036198	-	-
		47.00000	34.00000	15.00000	0.0	-0.18014	0.023479	-	-
		48.00000	34.00000	15.00000	0.0	-0.11622	0.015626	-	-
		49.00000	34.00000	15.00000	0.0	-0.058484	0.0095190	-	-
		50.00000	34.00000	15.00000	0.0	-0.0061684	0.0018116	-	-
		51.00000	34.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	34.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	34.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	34.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	34.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	35.00000	15.00000	0.072459	-0.032715	0.020669	-	-
		-14.00000	35.00000	15.00000	0.18543	-0.092524	0.041057	-	-
		-13.00000	35.00000	15.00000	0.28412	-0.15820	0.057756	-	-
		-12.00000	35.00000	15.00000	0.36662	-0.23044	0.079371	-	-
		-11.00000	35.00000	15.00000	0.43076	-0.31000	0.17077	-	-
		-10.00000	35.00000	15.00000	0.47416	-0.39769	0.26239	-	-
		-9.00000	35.00000	15.00000	0.49426	-0.49426	0.35209	-	-
		-8.00000	35.00000	15.00000	0.51681	-0.62881	0.45908	-	-
		-7.00000	35.00000	15.00000	0.52064	-0.78313	0.56925	-	-
		-6.00000	35.00000	15.00000	0.53291	-0.95779	0.67845	-	-
		-5.00000	35.00000	15.00000	0.52055	-1.1523	0.78159	-	-
		-4.00000	35.00000	15.00000	0.47247	-1.3643	0.87311	-	-
		-3.00000	35.00000	15.00000	0.39047	-1.5896	0.94750	-	-
		-2.00000	35.00000	15.00000	0.27898	-1.8211	0.99984	-	-
		-1.00000	35.00000	15.00000	0.14542	-2.0486	1.0263	-	-
		0.00000	35.00000	15.00000	0.0	-2.2612	1.0245	-	-
		1.00000	35.00000	15.00000	0.0	-3.3750	1.5291	-	-
		2.00000	35.00000	15.00000	0.0	-3.3750	1.5291	-	-
		3.00000	35.00000	15.00000	0.0	-3.3750	1.5291	-	-
		4.00000	35.00000	15.00000	0.0	-3.3750	1.5291	-	-
		5.00000	35.00000	15.00000	0.0	-3.4077	1.5356	-	-
		6.00000	35.00000	15.00000	0.0	-3.4675	1.5428	-	-
		7.00000	35.00000	15.00000	0.0	-3.5332	1.5498	-	-
		8.00000	35.00000	15.00000	0.0	-3.6054	1.5598	-	-
		9.00000	35.00000	15.00000	0.0	-3.6850	1.5756	-	-
		10.00000	35.00000	15.00000	0.0	-3.7727	1.5998	-	-
		11.00000	35.00000	15.00000	0.0	-3.8693	1.6342	-	-
		12.00000	35.00000	15.00000	0.0	-4.0038	1.6872	-	-
		13.00000	35.00000	15.00000	0.0	-4.1581	1.7574	-	-
		14.00000	35.00000	15.00000	0.0	-4.3328	1.8454	-	-
		15.00000	35.00000	15.00000	0.0	-4.5273	1.9504	-	-
		16.00000	35.00000	15.00000	0.0	-4.7393	2.0696	-	-
		17.00000	35.00000	15.00000	0.0	-4.9646	2.1979	-	-
		18.00000	35.00000	15.00000	0.0	-5.1961	2.3279	-	-
		19.00000	35.00000	15.00000	0.0	-5.4238	2.4500	-	-
		20.00000	35.00000	15.00000	0.0	-4.5225	2.0490	-	-
		21.00000	35.00000	15.00000	0.0	-5.4238	2.4500	-	-
		22.00000	35.00000	15.00000	0.0	-5.1961	2.3279	-	-
		23.00000	35.00000	15.00000	0.0	-4.9646	2.1979	-	-
		24.00000	35.00000	15.00000	0.0	-4.7393	2.0696	-	-
		25.00000	35.00000	15.00000	0.0	-4.5273	1.9504	-	-
		26.00000	35.00000	15.00000	0.0	-4.3328	1.8454	-	-
		27.00000	35.00000	15.00000	0.0	-4.1581	1.7574	-	-
		28.00000	35.00000	15.00000	0.0	-4.0038	1.6872	-	-
		29.00000	35.00000	15.00000	0.0	-3.8693	1.6342	-	-
		30.00000	35.00000	15.00000	0.0	-3.7727	1.5998	-	-
		31.00000	35.00000	15.00000	0.0	-3.6850	1.5756	-	-
		32.00000	35.00000	15.00000	0.0	-3.6054	1.5598	-	-
		33.00000	35.00000	15.00000	0.0	-3.5332	1.5498	-	-
		34.00000	35.00000	15.00000	0.0	-2.3538	0.0382	-	-
		35.00000	35.00000	15.00000	0.0	-2.0816	0.92728	-	-
		36.00000	35.00000	15.00000	0.0	-1.8211	0.79873	-	-
		37.00000	35.00000	15.00000	0.0	-1.5896	0.66878	-	-
		38.00000	35.00000	15.00000	0.0	-1.3643	0.54048	-	-
		39.00000	35.00000	15.00000	0.0	-1.1523	0.42126	-	-
		40.00000	35.00000	15.00000	0.0	-0.95779	0.31623	-	-
		41.00000	35.00000	15.00000	0.0	-0.78313	0.22823	-	-
		42.00000	35.00000	15.00000	0.0	-0.62881	0.15808	-	-
		43.00000	35.00000	15.00000	0.0	-0.49426	0.10504	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		44.00000	35.00000	15.00000	0.0	-0.39769	0.070644	-	-
		45.00000	35.00000	15.00000	0.0	-0.31000	0.046480	-	-
		46.00000	35.00000	15.00000	0.0	-0.23044	0.030634	-	-
		47.00000	35.00000	15.00000	0.0	-0.15820	0.020657	-	-
		48.00000	35.00000	15.00000	0.0	-0.092524	0.013667	-	-
		49.00000	35.00000	15.00000	0.0	-0.032715	0.0064293	-	-
		50.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	35.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	36.00000	15.00000	0.10090	-0.058885	0.027852	-	-
		-13.00000	36.00000	15.00000	0.19147	-0.12513	0.044446	-	-
		-12.00000	36.00000	15.00000	0.26634	-0.19733	0.060087	-	-
		-11.00000	36.00000	15.00000	0.32371	-0.27601	0.090114	-	-
		-10.00000	36.00000	15.00000	0.36167	-0.36167	0.16362	-	-
		-9.00000	36.00000	15.00000	0.39769	-0.47416	0.24505	-	-
		-8.00000	36.00000	15.00000	0.41831	-0.60217	0.33048	-	-
		-7.00000	36.00000	15.00000	0.42234	-0.74607	0.41807	-	-
		-6.00000	36.00000	15.00000	0.40886	-0.90557	0.50476	-	-
		-5.00000	36.00000	15.00000	0.38120	-1.0794	0.58657	-	-
		-4.00000	36.00000	15.00000	0.34892	-1.2648	0.65907	-	-
		-3.00000	36.00000	15.00000	0.28946	-1.4575	0.71777	-	-
		-2.00000	36.00000	15.00000	0.20708	-1.6514	0.75863	-	-
		-1.00000	36.00000	15.00000	0.10797	-1.8386	0.77851	-	-
		0.00000	36.00000	15.00000	0.0	-2.0100	0.77550	-	-
		1.00000	36.00000	15.00000	0.0	-3.0000	1.1575	-	-
		2.00000	36.00000	15.00000	0.0	-3.0000	1.1575	-	-
		3.00000	36.00000	15.00000	0.0	-3.0000	1.1575	-	-
		4.00000	36.00000	15.00000	0.0	-3.0000	1.1575	-	-
		5.00000	36.00000	15.00000	0.0	-3.0000	1.1575	-	-
		6.00000	36.00000	15.00000	0.0	-3.0589	1.1677	-	-
		7.00000	36.00000	15.00000	0.0	-3.1251	1.1750	-	-
		8.00000	36.00000	15.00000	0.0	-3.1973	1.1830	-	-
		9.00000	36.00000	15.00000	0.0	-3.2760	1.1947	-	-
		10.00000	36.00000	15.00000	0.0	-3.3617	1.2125	-	-
		11.00000	36.00000	15.00000	0.0	-3.4742	1.2417	-	-
		12.00000	36.00000	15.00000	0.0	-3.6022	1.2830	-	-
		13.00000	36.00000	15.00000	0.0	-3.7461	1.3377	-	-
		14.00000	36.00000	15.00000	0.0	-3.9056	1.4063	-	-
		15.00000	36.00000	15.00000	0.0	-4.0794	1.4876	-	-
		16.00000	36.00000	15.00000	0.0	-4.2648	1.5790	-	-
		17.00000	36.00000	15.00000	0.0	-4.4575	1.6759	-	-
		18.00000	36.00000	15.00000	0.0	-4.6514	1.7722	-	-
		19.00000	36.00000	15.00000	0.0	-4.8386	1.8605	-	-
		20.00000	36.00000	15.00000	0.0	-4.0200	1.5510	-	-
		21.00000	36.00000	15.00000	0.0	-4.8386	1.8605	-	-
		22.00000	36.00000	15.00000	0.0	-4.6514	1.7722	-	-
		23.00000	36.00000	15.00000	0.0	-4.4575	1.6759	-	-
		24.00000	36.00000	15.00000	0.0	-4.2648	1.5790	-	-
		25.00000	36.00000	15.00000	0.0	-4.0794	1.4876	-	-
		26.00000	36.00000	15.00000	0.0	-3.9056	1.4063	-	-
		27.00000	36.00000	15.00000	0.0	-3.7461	1.3377	-	-
		28.00000	36.00000	15.00000	0.0	-3.6022	1.2830	-	-
		29.00000	36.00000	15.00000	0.0	-3.4742	1.2417	-	-
		30.00000	36.00000	15.00000	0.0	-3.3617	1.2125	-	-
		31.00000	36.00000	15.00000	0.0	-3.2760	1.1947	-	-
		32.00000	36.00000	15.00000	0.0	-3.1973	1.1830	-	-
		33.00000	36.00000	15.00000	0.0	-3.1251	1.1750	-	-
		34.00000	36.00000	15.00000	0.0	-2.0689	0.78576	-	-
		35.00000	36.00000	15.00000	0.0	-1.8386	0.70308	-	-
		36.00000	36.00000	15.00000	0.0	-1.6514	0.61477	-	-
		37.00000	36.00000	15.00000	0.0	-1.4575	0.51846	-	-
		38.00000	36.00000	15.00000	0.0	-1.2648	0.42155	-	-
		39.00000	36.00000	15.00000	0.0	-1.0794	0.33019	-	-
		40.00000	36.00000	15.00000	0.0	-0.90557	0.24885	-	-
		41.00000	36.00000	15.00000	0.0	-0.74607	0.18026	-	-
		42.00000	36.00000	15.00000	0.0	-0.60217	0.12550	-	-
		43.00000	36.00000	15.00000	0.0	-0.47416	0.084229	-	-
		44.00000	36.00000	15.00000	0.0	-0.36167	0.055002	-	-
		45.00000	36.00000	15.00000	0.0	-0.27601	0.037228	-	-
		46.00000	36.00000	15.00000	0.0	-0.19733	0.025572	-	-
		47.00000	36.00000	15.00000	0.0	-0.12513	0.017567	-	-
		48.00000	36.00000	15.00000	0.0	-0.058885	0.010264	-	-
		49.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	36.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	37.00000	15.00000	0.023011	-0.015542	0.0095675	-	-
		-13.00000	37.00000	15.00000	0.10718	-0.081362	0.030971	-	-
		-12.00000	37.00000	15.00000	0.17636	-0.15243	0.045193	-	-
		-11.00000	37.00000	15.00000	0.22909	-0.22909	0.059326	-	-
		-10.00000	37.00000	15.00000	0.27601	-0.32371	0.088755	-	-
		-9.00000	37.00000	15.00000	0.31000	-0.43076	0.15403	-	-
		-8.00000	37.00000	15.00000	0.33014	-0.55049	0.22098	-	-
		-7.00000	37.00000	15.00000	0.33564	-0.68272	0.28879	-	-
		-6.00000	37.00000	15.00000	0.32604	-0.82660	0.35544	-	-
		-5.00000	37.00000	15.00000	0.30132	-0.98042	0.41808	-	-
		-4.00000	37.00000	15.00000	0.26208	-1.1414	0.47335	-	-
		-3.00000	37.00000	15.00000	0.20970	-1.3058	0.51782	-	-
		-2.00000	37.00000	15.00000	0.14787	-1.4675	0.54837	-	-
		-1.00000	37.00000	15.00000	0.077372	-1.6209	0.56257	-	-
		0.00000	37.00000	15.00000	0.0	-1.7587	0.55906	-	-
		1.00000	37.00000	15.00000	0.0	-2.6250	0.83442	-	-
		2.00000	37.00000	15.00000	0.0	-2.6250	0.83442	-	-
		3.00000	37.00000	15.00000	0.0	-2.6250	0.83442	-	-
		4.00000	37.00000	15.00000	0.0	-2.6250	0.83442	-	-
		5.00000	37.00000	15.00000	0.0	-2.6250	0.83442	-	-
		6.00000	37.00000	15.00000	0.0	-2.6405	0.83828	-	-
		7.00000	37.00000	15.00000	0.0	-2.7064	0.84778	-	-
		8.00000	37.00000	15.00000	0.0	-2.7774	0.85537	-	-
		9.00000	37.00000	15.00000	0.0	-2.8541	0.86408	-	-
		10.00000	37.00000	15.00000	0.0	-2.9487	0.87808	-	-
		11.00000	37.00000	15.00000	0.0	-3.0558	0.89900	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		12.00000	37.00000	15.00000	0.0	-3.1755	0.92881	-	-
		13.00000	37.00000	15.00000	0.0	-3.3077	0.96872	-	-
		14.00000	37.00000	15.00000	0.0	-3.4516	1.0189	-	-
		15.00000	37.00000	15.00000	0.0	-3.6054	1.0785	-	-
		16.00000	37.00000	15.00000	0.0	-3.7664	1.1450	-	-
		17.00000	37.00000	15.00000	0.0	-3.9305	1.2149	-	-
		18.00000	37.00000	15.00000	0.0	-4.0925	1.2833	-	-
		19.00000	37.00000	15.00000	0.0	-4.2459	1.3448	-	-
		20.00000	37.00000	15.00000	0.0	-3.5175	1.1181	-	-
		21.00000	37.00000	15.00000	0.0	-4.2459	1.3448	-	-
		22.00000	37.00000	15.00000	0.0	-4.0925	1.2833	-	-
		23.00000	37.00000	15.00000	0.0	-3.9305	1.2149	-	-
		24.00000	37.00000	15.00000	0.0	-3.7664	1.1450	-	-
		25.00000	37.00000	15.00000	0.0	-3.6054	1.0785	-	-
		26.00000	37.00000	15.00000	0.0	-3.4516	1.0189	-	-
		27.00000	37.00000	15.00000	0.0	-3.3077	0.96872	-	-
		28.00000	37.00000	15.00000	0.0	-3.1755	0.92881	-	-
		29.00000	37.00000	15.00000	0.0	-3.0558	0.89900	-	-
		30.00000	37.00000	15.00000	0.0	-2.9487	0.87808	-	-
		31.00000	37.00000	15.00000	0.0	-2.8541	0.86408	-	-
		32.00000	37.00000	15.00000	0.0	-2.7774	0.85537	-	-
		33.00000	37.00000	15.00000	0.0	-2.7064	0.84778	-	-
		34.00000	37.00000	15.00000	0.0	-1.7743	0.56292	-	-
		35.00000	37.00000	15.00000	0.0	-1.6209	0.51035	-	-
		36.00000	37.00000	15.00000	0.0	-1.4675	0.44891	-	-
		37.00000	37.00000	15.00000	0.0	-1.3055	0.38047	-	-
		38.00000	37.00000	15.00000	0.0	-1.1414	0.31058	-	-
		39.00000	37.00000	15.00000	0.0	-0.98042	0.24404	-	-
		40.00000	37.00000	15.00000	0.0	-0.82660	0.18451	-	-
		41.00000	37.00000	15.00000	0.0	-0.68272	0.13430	-	-
		42.00000	37.00000	15.00000	0.0	-0.5504	0.094395	-	-
		43.00000	37.00000	15.00000	0.0	-0.43076	0.064586	-	-
		44.00000	37.00000	15.00000	0.0	-0.32371	0.043663	-	-
		45.00000	37.00000	15.00000	0.0	-0.22909	0.029663	-	-
		46.00000	37.00000	15.00000	0.0	-0.15243	0.020952	-	-
		47.00000	37.00000	15.00000	0.0	-0.081362	0.013365	-	-
		48.00000	37.00000	15.00000	0.0	-0.015542	0.0038569	-	-
		49.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	37.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	38.00000	15.00000	0.031364	-0.027422	0.013024	-	-
		-12.00000	38.00000	15.00000	0.096510	-0.096510	0.031134	-	-
		-11.00000	38.00000	15.00000	0.15243	-0.17636	0.045193	-	-
		-10.00000	38.00000	15.00000	0.19733	-0.26634	0.060087	-	-
		-9.00000	38.00000	15.00000	0.23044	-0.36662	0.079371	-	-
		-8.00000	38.00000	15.00000	0.25112	-0.47704	0.13200	-	-
		-7.00000	38.00000	15.00000	0.25892	-0.59704	0.18383	-	-
		-6.00000	38.00000	15.00000	0.25367	-0.72546	0.23393	-	-
		-5.00000	38.00000	15.00000	0.23562	-0.86040	0.28050	-	-
		-4.00000	38.00000	15.00000	0.20551	-0.99916	0.32127	-	-
		-3.00000	38.00000	15.00000	0.16465	-1.1381	0.35381	-	-
		-2.00000	38.00000	15.00000	0.11502	-1.2727	0.37589	-	-
		-1.00000	38.00000	15.00000	0.059133	-1.3977	0.38582	-	-
		0.00000	38.00000	15.00000	0.0	-1.5075	0.38276	-	-
		1.00000	38.00000	15.00000	0.0	-2.2500	0.57129	-	-
		2.00000	38.00000	15.00000	0.0	-2.2500	0.57129	-	-
		3.00000	38.00000	15.00000	0.0	-2.2500	0.57129	-	-
		4.00000	38.00000	15.00000	0.0	-2.2500	0.57129	-	-
		5.00000	38.00000	15.00000	0.0	-2.2500	0.57129	-	-
		6.00000	38.00000	15.00000	0.0	-2.2500	0.57129	-	-
		7.00000	38.00000	15.00000	0.0	-2.2774	0.57737	-	-
		8.00000	38.00000	15.00000	0.0	-2.3465	0.58686	-	-
		9.00000	38.00000	15.00000	0.0	-2.4264	0.59553	-	-
		10.00000	38.00000	15.00000	0.0	-2.5163	0.60581	-	-
		11.00000	38.00000	15.00000	0.0	-2.6166	0.62003	-	-
		12.00000	38.00000	15.00000	0.0	-2.7270	0.64005	-	-
		13.00000	38.00000	15.00000	0.0	-2.8470	0.66705	-	-
		14.00000	38.00000	15.00000	0.0	-2.9755	0.70132	-	-
		15.00000	38.00000	15.00000	0.0	-3.1104	0.74217	-	-
		16.00000	38.00000	15.00000	0.0	-3.2492	0.78783	-	-
		17.00000	38.00000	15.00000	0.0	-3.3881	0.83558	-	-
		18.00000	38.00000	15.00000	0.0	-3.5227	0.88186	-	-
		19.00000	38.00000	15.00000	0.0	-3.6477	0.92268	-	-
		20.00000	38.00000	15.00000	0.0	-3.0150	0.76553	-	-
		21.00000	38.00000	15.00000	0.0	-3.6477	0.92268	-	-
		22.00000	38.00000	15.00000	0.0	-3.5227	0.88186	-	-
		23.00000	38.00000	15.00000	0.0	-3.3881	0.83558	-	-
		24.00000	38.00000	15.00000	0.0	-3.2492	0.78783	-	-
		25.00000	38.00000	15.00000	0.0	-3.1104	0.74217	-	-
		26.00000	38.00000	15.00000	0.0	-2.9755	0.70132	-	-
		27.00000	38.00000	15.00000	0.0	-2.8470	0.66705	-	-
		28.00000	38.00000	15.00000	0.0	-2.7270	0.64005	-	-
		29.00000	38.00000	15.00000	0.0	-2.6166	0.62003	-	-
		30.00000	38.00000	15.00000	0.0	-2.5163	0.60581	-	-
		31.00000	38.00000	15.00000	0.0	-2.4264	0.59553	-	-
		32.00000	38.00000	15.00000	0.0	-2.3465	0.58686	-	-
		33.00000	38.00000	15.00000	0.0	-2.2774	0.57737	-	-
		34.00000	38.00000	15.00000	0.0	-1.5075	0.38276	-	-
		35.00000	38.00000	15.00000	0.0	-1.3977	0.35139	-	-
		36.00000	38.00000	15.00000	0.0	-1.2727	0.31057	-	-
		37.00000	38.00000	15.00000	0.0	-1.1381	0.26429	-	-
		38.00000	38.00000	15.00000	0.0	-0.99916	0.21654	-	-
		39.00000	38.00000	15.00000	0.0	-0.86040	0.17088	-	-
		40.00000	38.00000	15.00000	0.0	-0.72546	0.13003	-	-
		41.00000	38.00000	15.00000	0.0	-0.59704	0.095763	-	-
		42.00000	38.00000	15.00000	0.0	-0.47704	0.068764	-	-
		43.00000	38.00000	15.00000	0.0	-0.36662	0.048737	-	-
		44.00000	38.00000	15.00000	0.0	-0.26634	0.034515	-	-
		45.00000	38.00000	15.00000	0.0	-0.17636	0.024241	-	-
		46.00000	38.00000	15.00000	0.0	-0.096510	0.015567	-	-
		47.00000	38.00000	15.00000	0.0	-0.027422	0.0060752	-	-
		48.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	38.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	39.00000	15.00000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-20.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	39.00000	15.00000	0.027422	-0.031364	0.013024	-	-
		-11.00000	39.00000	15.00000	0.081362	-0.10718	0.030971	-	-
		-10.00000	39.00000	15.00000	0.12513	-0.19147	0.044446	-	-
		-9.00000	39.00000	15.00000	0.15820	-0.28412	0.057756	-	-
		-8.00000	39.00000	15.00000	0.18014	-0.38470	0.073621	-	-
		-7.00000	39.00000	15.00000	0.19075	-0.49239	0.10257	-	-
		-6.00000	39.00000	15.00000	0.19006	-0.60585	0.14041	-	-
		-5.00000	39.00000	15.00000	0.17845	-0.72319	0.17479	-	-
		-4.00000	39.00000	15.00000	0.15672	-0.84184	0.20445	-	-
		-3.00000	39.00000	15.00000	0.12611	-0.95854	0.22791	-	-
		-2.00000	39.00000	15.00000	0.088319	-1.0694	0.24380	-	-
		-1.00000	39.00000	15.00000	0.045468	-1.1702	0.25112	-	-
		0.00000	39.00000	15.00000	0.0	-1.2562	0.24949	-	-
		1.00000	39.00000	15.00000	0.0	-1.8750	0.37237	-	-
		2.00000	39.00000	15.00000	0.0	-1.8750	0.37237	-	-
		3.00000	39.00000	15.00000	0.0	-1.8750	0.37237	-	-
		4.00000	39.00000	15.00000	0.0	-1.8750	0.37237	-	-
		5.00000	39.00000	15.00000	0.0	-1.8750	0.37237	-	-
		6.00000	39.00000	15.00000	0.0	-1.8750	0.37237	-	-
		7.00000	39.00000	15.00000	0.0	-1.8750	0.37237	-	-
		8.00000	39.00000	15.00000	0.0	-1.9064	0.37932	-	-
		9.00000	39.00000	15.00000	0.0	-1.9822	0.38998	-	-
		10.00000	39.00000	15.00000	0.0	-2.0665	0.39925	-	-
		11.00000	39.00000	15.00000	0.0	-2.1591	0.40947	-	-
		12.00000	39.00000	15.00000	0.0	-2.2597	0.42252	-	-
		13.00000	39.00000	15.00000	0.0	-2.3674	0.43964	-	-
		14.00000	39.00000	15.00000	0.0	-2.4809	0.46139	-	-
		15.00000	39.00000	15.00000	0.0	-2.5982	0.48745	-	-
		16.00000	39.00000	15.00000	0.0	-2.7168	0.51673	-	-
		17.00000	39.00000	15.00000	0.0	-2.8335	0.54734	-	-
		18.00000	39.00000	15.00000	0.0	-2.9444	0.57686	-	-
		19.00000	39.00000	15.00000	0.0	-3.0452	0.60257	-	-
		20.00000	39.00000	15.00000	0.0	-2.5125	0.49998	-	-
		21.00000	39.00000	15.00000	0.0	-3.0452	0.60257	-	-
		22.00000	39.00000	15.00000	0.0	-2.9444	0.57686	-	-
		23.00000	39.00000	15.00000	0.0	-2.8335	0.54734	-	-
		24.00000	39.00000	15.00000	0.0	-2.7168	0.51673	-	-
		25.00000	39.00000	15.00000	0.0	-2.5982	0.48745	-	-
		26.00000	39.00000	15.00000	0.0	-2.4809	0.46139	-	-
		27.00000	39.00000	15.00000	0.0	-2.3674	0.43964	-	-
		28.00000	39.00000	15.00000	0.0	-2.2597	0.42252	-	-
		29.00000	39.00000	15.00000	0.0	-2.1591	0.40947	-	-
		30.00000	39.00000	15.00000	0.0	-2.0665	0.39925	-	-
		31.00000	39.00000	15.00000	0.0	-1.9822	0.38998	-	-
		32.00000	39.00000	15.00000	0.0	-1.9064	0.37932	-	-
		33.00000	39.00000	15.00000	0.0	-1.8750	0.37237	-	-
		34.00000	39.00000	15.00000	0.0	-1.2562	0.24949	-	-
		35.00000	39.00000	15.00000	0.0	-1.1702	0.23020	-	-
		36.00000	39.00000	15.00000	0.0	-1.0694	0.20448	-	-
		37.00000	39.00000	15.00000	0.0	-0.95854	0.17496	-	-
		38.00000	39.00000	15.00000	0.0	-0.84184	0.14435	-	-
		39.00000	39.00000	15.00000	0.0	-0.72319	0.11508	-	-
		40.00000	39.00000	15.00000	0.0	-0.60585	0.089013	-	-
		41.00000	39.00000	15.00000	0.0	-0.49239	0.067270	-	-
		42.00000	39.00000	15.00000	0.0	-0.38470	0.050141	-	-
		43.00000	39.00000	15.00000	0.0	-0.28412	0.037099	-	-
		44.00000	39.00000	15.00000	0.0	-0.19147	0.026879	-	-
		45.00000	39.00000	15.00000	0.0	-0.10718	0.017606	-	-
		46.00000	39.00000	15.00000	0.0	-0.031364	0.0069484	-	-
		47.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	39.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	40.00000	15.00000	0.0	0.0	0.0	-	-
		-11.00000	40.00000	15.00000	0.015542	-0.023011	0.0095675	-	-
		-10.00000	40.00000	15.00000	0.058885	-0.10090	0.027852	-	-
		-9.00000	40.00000	15.00000	0.092524	-0.18543	0.041057	-	-
		-8.00000	40.00000	15.00000	0.11622	-0.27596	0.052729	-	-
		-7.00000	40.00000	15.00000	0.12992	-0.37155	0.065034	-	-
		-6.00000	40.00000	15.00000	0.13380	-0.47078	0.078941	-	-
		-5.00000	40.00000	15.00000	0.12832	-0.57182	0.098093	-	-
		-4.00000	40.00000	15.00000	0.11427	-0.67227	0.12050	-	-
		-3.00000	40.00000	15.00000	0.092781	-0.76927	0.13811	-	-
		-2.00000	40.00000	15.00000	0.065343	-0.85951	0.15033	-	-
		-1.00000	40.00000	15.00000	0.03743	-0.93935	0.15677	-	-
		0.00000	40.00000	15.00000	0.0	-1.0050	0.15745	-	-
		1.00000	40.00000	15.00000	0.0	-1.5000	0.23501	-	-
		2.00000	40.00000	15.00000	0.0	-1.5000	0.23501	-	-
		3.00000	40.00000	15.00000	0.0	-1.5000	0.23501	-	-
		4.00000	40.00000	15.00000	0.0	-1.5000	0.23501	-	-
		5.00000	40.00000	15.00000	0.0	-1.5000	0.23501	-	-
		6.00000	40.00000	15.00000	0.0	-1.5000	0.23501	-	-
		7.00000	40.00000	15.00000	0.0	-1.5000	0.23501	-	-
		8.00000	40.00000	15.00000	0.0	-1.5000	0.23501	-	-
		9.00000	40.00000	15.00000	0.0	-1.5232	0.24072	-	-
		10.00000	40.00000	15.00000	0.0	-1.6009	0.25260	-	-
		11.00000	40.00000	15.00000	0.0	-1.6854	0.26240	-	-
		12.00000	40.00000	15.00000	0.0	-1.7760	0.27211	-	-
		13.00000	40.00000	15.00000	0.0	-1.8715	0.28319	-	-
		14.00000	40.00000	15.00000	0.0	-1.9708	0.29648	-	-
		15.00000	40.00000	15.00000	0.0	-2.0718	0.31214	-	-
		16.00000	40.00000	15.00000	0.0	-2.1723	0.32968	-	-
		17.00000	40.00000	15.00000	0.0	-2.2693	0.34803	-	-
		18.00000	40.00000	15.00000	0.0	-2.3595	0.36572	-	-
		19.00000	40.00000	15.00000	0.0	-2.4393	0.38106	-	-
		20.00000	40.00000	15.00000	0.0	-2.0100	0.31491	-	-
		21.00000	40.00000	15.00000	0.0	-2.4393	0.38106	-	-
		22.00000	40.00000	15.00000	0.0	-2.3595	0.36572	-	-
		23.00000	40.00000	15.00000	0.0	-2.2693	0.34803	-	-
		24.00000	40.00000	15.00000	0.0	-2.1723	0.32968	-	-
		25.00000	40.00000	15.00000	0.0	-2.0718	0.31214	-	-
		26.00000	40.00000	15.00000	0.0	-1.9708	0.29648	-	-
		27.00000	40.00000	15.00000	0.0	-1.8715	0.28319	-	-
		28.00000	40.00000	15.00000	0.0	-1.7760	0.27211	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
	29.00000	40.00000	15.00000	0.0	-1.6854	0.26240	-	-	-
	30.00000	40.00000	15.00000	0.0	-1.6009	0.25260	-	-	-
	31.00000	40.00000	15.00000	0.0	-1.5230	0.24072	-	-	-
	32.00000	40.00000	15.00000	0.0	-1.5000	0.23501	-	-	-
	33.00000	40.00000	15.00000	0.0	-1.5000	0.23501	-	-	-
	34.00000	40.00000	15.00000	0.0	-1.0050	0.15745	-	-	-
	35.00000	40.00000	15.00000	0.0	-0.93935	0.14605	-	-	-
	36.00000	40.00000	15.00000	0.0	-0.85951	0.13071	-	-	-
	37.00000	40.00000	15.00000	0.0	-0.76927	0.11302	-	-	-
	38.00000	40.00000	15.00000	0.0	-0.67227	0.094668	-	-	-
	39.00000	40.00000	15.00000	0.0	-0.57182	0.077129	-	-	-
	40.00000	40.00000	15.00000	0.0	-0.47079	0.061471	-	-	-
	41.00000	40.00000	15.00000	0.0	-0.37155	0.048185	-	-	-
	42.00000	40.00000	15.00000	0.0	-0.27596	0.037103	-	-	-
	43.00000	40.00000	15.00000	0.0	-0.18543	0.027390	-	-	-
	44.00000	40.00000	15.00000	0.0	-0.10090	0.017598	-	-	-
	45.00000	40.00000	15.00000	0.0	-0.023011	0.0057106	-	-	-
	46.00000	40.00000	15.00000	0.0	0.0	0.0	-	-	-
	47.00000	40.00000	15.00000	0.0	0.0	0.0	-	-	-
	48.00000	40.00000	15.00000	0.0	0.0	0.0	-	-	-
	49.00000	40.00000	15.00000	0.0	0.0	0.0	-	-	-
	50.00000	40.00000	15.00000	0.0	0.0	0.0	-	-	-
	51.00000	40.00000	15.00000	0.0	0.0	0.0	-	-	-
	52.00000	40.00000	15.00000	0.0	0.0	0.0	-	-	-
	53.00000	40.00000	15.00000	0.0	0.0	0.0	-	-	-
	54.00000	40.00000	15.00000	0.0	0.0	0.0	-	-	-
	55.00000	40.00000	15.00000	0.0	0.0	0.0	-	-	-
	-25.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-24.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-23.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-22.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-21.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-20.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-19.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-18.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-17.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-16.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-15.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-14.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-13.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-12.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-11.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-10.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-9.00000	41.00000	15.00000	0.032715	-0.072459	0.020669	-	-	-
	-8.00000	41.00000	15.00000	0.058484	-0.15300	0.034421	-	-	-
	-7.00000	41.00000	15.00000	0.075418	-0.23687	0.045197	-	-	-
	-6.00000	41.00000	15.00000	0.083777	-0.32269	0.054869	-	-	-
	-5.00000	41.00000	15.00000	0.084056	-0.40867	0.064339	-	-	-
	-4.00000	41.00000	15.00000	0.077016	-0.49266	0.073755	-	-	-
	-3.00000	41.00000	15.00000	0.063688	-0.57212	0.082741	-	-	-
	-2.00000	41.00000	15.00000	0.045366	-0.64418	0.090623	-	-	-
	-1.00000	41.00000	15.00000	0.023573	-0.70578	0.096654	-	-	-
	0.00000	41.00000	15.00000	0.0	-0.75375	0.10020	-	-	-
	1.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	2.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	3.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	4.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	5.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	6.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	7.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	8.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	9.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	10.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	11.00000	41.00000	15.00000	0.0	-1.1975	0.16380	-	-	-
	12.00000	41.00000	15.00000	0.0	-1.2780	0.17446	-	-	-
	13.00000	41.00000	15.00000	0.0	-1.3619	0.18384	-	-	-
	14.00000	41.00000	15.00000	0.0	-1.4477	0.19312	-	-	-
	15.00000	41.00000	15.00000	0.0	-1.5337	0.20292	-	-	-
	16.00000	41.00000	15.00000	0.0	-1.6177	0.21334	-	-	-
	17.00000	41.00000	15.00000	0.0	-1.6971	0.22401	-	-	-
	18.00000	41.00000	15.00000	0.0	-1.7692	0.23422	-	-	-
	19.00000	41.00000	15.00000	0.0	-1.8308	0.24309	-	-	-
	20.00000	41.00000	15.00000	0.0	-1.5075	0.20041	-	-	-
	21.00000	41.00000	15.00000	0.0	-1.8308	0.24309	-	-	-
	22.00000	41.00000	15.00000	0.0	-1.7692	0.23422	-	-	-
	23.00000	41.00000	15.00000	0.0	-1.6971	0.22401	-	-	-
	24.00000	41.00000	15.00000	0.0	-1.6177	0.21334	-	-	-
	25.00000	41.00000	15.00000	0.0	-1.5337	0.20292	-	-	-
	26.00000	41.00000	15.00000	0.0	-1.4477	0.19312	-	-	-
	27.00000	41.00000	15.00000	0.0	-1.3619	0.18384	-	-	-
	28.00000	41.00000	15.00000	0.0	-1.2780	0.17446	-	-	-
	29.00000	41.00000	15.00000	0.0	-1.1975	0.16380	-	-	-
	30.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	31.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	32.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	33.00000	41.00000	15.00000	0.0	-1.1250	0.14956	-	-	-
	34.00000	41.00000	15.00000	0.0	-0.75375	0.10020	-	-	-
	35.00000	41.00000	15.00000	0.0	-0.70578	0.093530	-	-	-
	36.00000	41.00000	15.00000	0.0	-0.64418	0.084661	-	-	-
	37.00000	41.00000	15.00000	0.0	-0.57212	0.074453	-	-	-
	38.00000	41.00000	15.00000	0.0	-0.49266	0.063784	-	-	-
	39.00000	41.00000	15.00000	0.0	-0.40867	0.053363	-	-	-
	40.00000	41.00000	15.00000	0.0	-0.32269	0.043560	-	-	-
	41.00000	41.00000	15.00000	0.0	-0.23687	0.034282	-	-	-
	42.00000	41.00000	15.00000	0.0	-0.15300	0.024902	-	-	-
	43.00000	41.00000	15.00000	0.0	-0.072459	0.014240	-	-	-
	44.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	45.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	46.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	47.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	48.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	49.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	50.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	51.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	52.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	53.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	54.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	55.00000	41.00000	15.00000	0.0	0.0	0.0	-	-	-
	-25.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-24.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-23.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-22.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-21.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-20.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-19.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-18.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-17.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-16.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-15.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-14.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-13.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-12.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-11.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-10.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-9.00000	42.00000	15.00000	0.0	0.0	0.0	-	-	-
	-8.00000	42.00000	15.00000	0.0061684	-0.017650	0.0069924	-	-	-
	-7.00000	42.00000	15.00000	0.026374	-0.090299	0.022616	-	-	-
	-6.00000	42.00000	15.00000	0.039056	-0.16352	0.033915	-	-	-
	-5.00000	42.00000	15.00000	0.044721	-0.23565	0.042659	-	-	-
	-4.00000	42.00000	15.00000	0.044085	-0.30472	0.049843	-	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-3.00000	42.00000	15.00000	0.038080	-0.36847	0.055881	-	-
		-2.00000	42.00000	15.00000	0.027839	-0.42445	0.060809	-	-
		-1.00000	42.00000	15.00000	0.014669	-0.47001	0.064458	-	-
		0.00000	42.00000	15.00000	0.0	-0.50250	0.066612	-	-
		1.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		2.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		3.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		4.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		5.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		6.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		7.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		8.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		9.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		10.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		11.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		12.00000	42.00000	15.00000	0.0	-0.76764	0.10460	-	-
		13.00000	42.00000	15.00000	0.0	-0.84030	0.11692	-	-
		14.00000	42.00000	15.00000	0.0	-0.91352	0.12680	-	-
		15.00000	42.00000	15.00000	0.0	-0.98565	0.13528	-	-
		16.00000	42.00000	15.00000	0.0	-1.0547	0.14296	-	-
		17.00000	42.00000	15.00000	0.0	-1.1185	0.15007	-	-
		18.00000	42.00000	15.00000	0.0	-1.1744	0.15649	-	-
		19.00000	42.00000	15.00000	0.0	-1.2200	0.16193	-	-
		20.00000	42.00000	15.00000	0.0	-1.0050	0.13322	-	-
		21.00000	42.00000	15.00000	0.0	-1.2200	0.16193	-	-
		22.00000	42.00000	15.00000	0.0	-1.1744	0.15649	-	-
		23.00000	42.00000	15.00000	0.0	-1.1185	0.15007	-	-
		24.00000	42.00000	15.00000	0.0	-1.0547	0.14296	-	-
		25.00000	42.00000	15.00000	0.0	-0.98565	0.13528	-	-
		26.00000	42.00000	15.00000	0.0	-0.91352	0.12680	-	-
		27.00000	42.00000	15.00000	0.0	-0.84030	0.11692	-	-
		28.00000	42.00000	15.00000	0.0	-0.76764	0.10460	-	-
		29.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		30.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		31.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		32.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		33.00000	42.00000	15.00000	0.0	-0.75000	0.099421	-	-
		34.00000	42.00000	15.00000	0.0	-0.50250	0.066612	-	-
		35.00000	42.00000	15.00000	0.0	-0.47001	0.062507	-	-
		36.00000	42.00000	15.00000	0.0	-0.42445	0.057066	-	-
		37.00000	42.00000	15.00000	0.0	-0.36847	0.050647	-	-
		38.00000	42.00000	15.00000	0.0	-0.30472	0.043543	-	-
		39.00000	42.00000	15.00000	0.0	-0.23565	0.035855	-	-
		40.00000	42.00000	15.00000	0.0	-0.16352	0.027376	-	-
		41.00000	42.00000	15.00000	0.0	-0.090299	0.017504	-	-
		42.00000	42.00000	15.00000	0.0	-0.017640	0.0051808	-	-
		43.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	42.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-11.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-10.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-9.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-8.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-7.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-6.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-5.00000	43.00000	15.00000	0.0095590	-0.054279	0.014473	-	-
		-4.00000	43.00000	15.00000	0.014778	-0.10978	0.024144	-	-
		-3.00000	43.00000	15.00000	0.015373	-0.15943	0.031130	-	-
		-2.00000	43.00000	15.00000	0.012340	-0.20106	0.036077	-	-
		-1.00000	43.00000	15.00000	0.0068074	-0.23243	0.039299	-	-
		0.00000	43.00000	15.00000	0.0	-0.25125	0.040894	-	-
		1.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		2.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		3.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		4.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		5.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		6.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		7.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		8.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		9.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		10.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		11.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		12.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		13.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		14.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		15.00000	43.00000	15.00000	0.0	-0.42928	0.073341	-	-
		16.00000	43.00000	15.00000	0.0	-0.48478	0.082315	-	-
		17.00000	43.00000	15.00000	0.0	-0.53443	0.089428	-	-
		18.00000	43.00000	15.00000	0.0	-0.57606	0.095026	-	-
		19.00000	43.00000	15.00000	0.0	-0.60743	0.099216	-	-
		20.00000	43.00000	15.00000	0.0	-0.50250	0.081787	-	-
		21.00000	43.00000	15.00000	0.0	-0.60743	0.099216	-	-
		22.00000	43.00000	15.00000	0.0	-0.57606	0.095026	-	-
		23.00000	43.00000	15.00000	0.0	-0.53443	0.089428	-	-
		24.00000	43.00000	15.00000	0.0	-0.48478	0.082315	-	-
		25.00000	43.00000	15.00000	0.0	-0.42928	0.073341	-	-
		26.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		27.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		28.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		29.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		30.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		31.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		32.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		33.00000	43.00000	15.00000	0.0	-0.37500	0.061035	-	-
		34.00000	43.00000	15.00000	0.0	-0.25125	0.040894	-	-
		35.00000	43.00000	15.00000	0.0	-0.23243	0.038181	-	-
		36.00000	43.00000	15.00000	0.0	-0.20106	0.033991	-	-
		37.00000	43.00000	15.00000	0.0	-0.15943	0.028393	-	-
		38.00000	43.00000	15.00000	0.0	-0.10978	0.021280	-	-
		39.00000	43.00000	15.00000	0.0	-0.054279	0.012306	-	-
		40.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		41.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		42.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		43.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	43.00000	15.00000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		46.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	43.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-11.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-10.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-9.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-8.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-7.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-6.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-5.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-4.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-3.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-2.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-1.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		0.00000	44.00000	15.00000	0.0	0.0	0.0025890	-	-
		1.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		2.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		3.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		4.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		5.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		6.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		7.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		8.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		9.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		10.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		11.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		12.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		13.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		14.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		15.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		16.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		17.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		18.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		19.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		20.00000	44.00000	15.00000	0.0	0.0	0.0051780	-	-
		21.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		22.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		23.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		24.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		25.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		26.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		27.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		28.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		29.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		30.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		31.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		32.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		33.00000	44.00000	15.00000	0.0	0.0	0.0038642	-	-
		34.00000	44.00000	15.00000	0.0	0.0	0.0025890	-	-
		35.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		36.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		37.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		38.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		39.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		40.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		41.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		42.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		43.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		44.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		45.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		46.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		47.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		48.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		49.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		50.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		51.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		52.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		53.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		54.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		55.00000	44.00000	15.00000	0.0	0.0	0.0	-	-
		-25.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-24.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-23.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-22.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-21.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-20.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-19.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-18.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-17.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-16.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-15.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-14.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-13.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-12.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-11.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-10.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-9.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-8.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-7.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-6.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-5.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-4.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-3.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-2.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		-1.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		0.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		1.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		2.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		3.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		4.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		5.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		6.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		7.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		8.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		9.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		10.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		11.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		12.00000	45.00000	15.00000	0.0	0.0	0.0	-	-
		13.00000	45.00000	15.00000	0.0	0.0	0.0	-	-



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Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
	32.0000	-5.00000	22.00000	19.00000	7.3624	0.0	5.5330	0.0	-7.3624
	34.0000	-5.00000	24.00000	19.00000	7.3624	0.0	5.5330	0.0	-7.3624
	36.0000	-5.00000	26.00000	19.00000	4.9328	0.0	3.7071	0.0	-4.9328
	38.0000	-5.00000	28.00000	19.00000	3.2767	-0.62806	2.8478	-0.62806	-3.2767
	40.0000	-5.00000	30.00000	19.00000	1.9069	-0.95886	2.0157	-0.95886	-1.9069
	42.0000	-5.00000	32.00000	19.00000	1.1189	-1.1405	1.4414	-1.1405	-1.1189
	44.0000	-5.00000	34.00000	19.00000	0.68477	-1.1927	0.99576	-1.1927	-0.68477
	46.0000	-5.00000	36.00000	19.00000	0.38120	-1.0794	0.58657	-1.0794	-0.38120
	48.0000	-5.00000	38.00000	19.00000	0.23562	-0.86040	0.28050	-0.86040	-0.23562
	50.0000	-5.00000	40.00000	19.00000	0.12832	-0.57182	0.098093	-0.57182	-0.12832
Grid 3	Grid 3	-25.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-11.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-10.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-9.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-8.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-7.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-6.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-5.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-4.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-3.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-2.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-1.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		0.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		1.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		2.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		3.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		4.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		5.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		6.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		7.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		8.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		9.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		10.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		11.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		12.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		13.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		14.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		15.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		16.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		17.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		18.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		19.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		20.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		22.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		23.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		24.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		25.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		26.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		27.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		28.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		29.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		30.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		31.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		32.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		33.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		34.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-20.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-11.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-10.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-9.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-8.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-7.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-6.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-5.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-4.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-3.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-2.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		-1.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		0.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		1.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		2.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		3.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		4.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		5.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		6.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		7.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		8.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		9.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		10.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		11.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		12.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-
		13.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-

Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.	Coordinates			Displacements			Angle of Line			
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		14.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		15.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		16.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		17.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		18.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		19.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		20.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		21.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		22.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		23.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		24.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		25.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		26.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		27.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		28.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		29.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		30.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		31.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		32.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		33.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		34.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		35.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		36.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		37.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		38.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		39.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		40.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		41.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		42.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		43.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		44.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		45.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		46.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		47.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		48.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		49.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		50.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		51.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		52.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		53.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		54.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		55.00000	-19.00000	19.50000	0.0	0.0	0.0	-	-	-
		-25.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-24.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-23.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		-22.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-21.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-20.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-19.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		-18.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-17.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-16.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-15.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-14.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		-13.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-12.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-11.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-10.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-9.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		-8.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-7.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-6.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-5.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		-4.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-3.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-2.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-1.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		0.00000	-18.00000	19.50000	0.0	0.0	0.0025890	-	-	-
		1.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		2.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		3.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		4.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	0.0038642
		5.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		6.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		7.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		8.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		9.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	0.0038642
		10.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		11.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		12.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		13.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		14.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	0.0038642
		15.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		16.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		17.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		18.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	0.0038642
		19.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		20.00000	-18.00000	19.50000	0.0	0.0	0.0051780	-	-	-
		21.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		22.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		23.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	0.0038642
		24.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		25.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		26.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		27.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	0.0038642
		28.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		29.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		30.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		31.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	0.0038642
		32.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		33.00000	-18.00000	19.50000	0.0	0.0	0.0038642	-	-	-
		34.00000	-18.00000	19.50000	0.0	0.0	0.0025890	-	-	-
		35.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		36.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		37.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		38.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		39.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		40.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		41.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		42.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		43.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		44.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		45.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		46.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		47.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		48.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		49.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		50.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		51.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		52.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		53.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		54.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		55.00000	-18.00000	19.50000	0.0	0.0	0.0	-	-	-
		-25.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		-24.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-	-
		-23.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-	-
		-22.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-	-
		-21.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		-20.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-	-
		-19.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-18.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-11.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-10.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-9.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-8.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-7.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-6.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-5.00000	-17.00000	19.50000	0.0095590	0.054279	0.014473	-	-
		-4.00000	-17.00000	19.50000	0.014778	0.10978	0.024144	-	-
		-3.00000	-17.00000	19.50000	0.015373	0.15943	0.031130	-	-
		-2.00000	-17.00000	19.50000	0.012340	0.20106	0.036077	-	-
		-1.00000	-17.00000	19.50000	0.0068074	0.23243	0.039299	-	-
		0.00000	-17.00000	19.50000	0.0	0.25125	0.040894	-	-
		1.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		2.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		3.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		4.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		5.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		6.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		7.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		8.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		9.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		10.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		11.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		12.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		13.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		14.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		15.00000	-17.00000	19.50000	0.0	0.42928	0.073341	-	-
		16.00000	-17.00000	19.50000	0.0	0.48478	0.082315	-	-
		17.00000	-17.00000	19.50000	0.0	0.53443	0.089428	-	-
		18.00000	-17.00000	19.50000	0.0	0.57606	0.095026	-	-
		19.00000	-17.00000	19.50000	0.0	0.60743	0.099216	-	-
		20.00000	-17.00000	19.50000	0.0	0.50250	0.081787	-	-
		21.00000	-17.00000	19.50000	0.0	0.60743	0.099216	-	-
		22.00000	-17.00000	19.50000	0.0	0.57606	0.095026	-	-
		23.00000	-17.00000	19.50000	0.0	0.53443	0.089428	-	-
		24.00000	-17.00000	19.50000	0.0	0.48478	0.082315	-	-
		25.00000	-17.00000	19.50000	0.0	0.42928	0.073341	-	-
		26.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		27.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		28.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		29.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		30.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		31.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		32.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		33.00000	-17.00000	19.50000	0.0	0.37500	0.061035	-	-
		34.00000	-17.00000	19.50000	0.0	0.25125	0.040894	-	-
		35.00000	-17.00000	19.50000	0.0	0.23243	0.038181	-	-
		36.00000	-17.00000	19.50000	0.0	0.20106	0.033991	-	-
		37.00000	-17.00000	19.50000	0.0	0.15943	0.028393	-	-
		38.00000	-17.00000	19.50000	0.0	0.10978	0.021280	-	-
		39.00000	-17.00000	19.50000	0.0	0.054279	0.012306	-	-
		40.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-17.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-11.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-10.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-9.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-8.00000	-16.00000	19.50000	0.0061684	0.017640	0.0069924	-	-
		-7.00000	-16.00000	19.50000	0.026374	0.090299	0.022616	-	-
		-6.00000	-16.00000	19.50000	0.039056	0.16352	0.033915	-	-
		-5.00000	-16.00000	19.50000	0.044721	0.23565	0.042659	-	-
		-4.00000	-16.00000	19.50000	0.044085	0.30872	0.049849	-	-
		-3.00000	-16.00000	19.50000	0.038080	0.36847	0.055881	-	-
		-2.00000	-16.00000	19.50000	0.027839	0.42445	0.060809	-	-
		-1.00000	-16.00000	19.50000	0.014669	0.47001	0.064458	-	-
		0.00000	-16.00000	19.50000	0.0	0.50250	0.066612	-	-
		1.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		2.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		3.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		4.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		5.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		6.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		7.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		8.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		9.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		10.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		11.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		12.00000	-16.00000	19.50000	0.0	0.76764	0.10460	-	-
		13.00000	-16.00000	19.50000	0.0	0.84030	0.11692	-	-
		14.00000	-16.00000	19.50000	0.0	0.91352	0.12680	-	-
		15.00000	-16.00000	19.50000	0.0	0.98565	0.13528	-	-
		16.00000	-16.00000	19.50000	0.0	1.0547	0.14296	-	-
		17.00000	-16.00000	19.50000	0.0	1.1185	0.15007	-	-
		18.00000	-16.00000	19.50000	0.0	1.1744	0.15649	-	-
		19.00000	-16.00000	19.50000	0.0	1.2200	0.16193	-	-
		20.00000	-16.00000	19.50000	0.0	1.0050	0.13322	-	-
		21.00000	-16.00000	19.50000	0.0	1.2220	0.116193	-	-
		22.00000	-16.00000	19.50000	0.0	1.1744	0.15649	-	-
		23.00000	-16.00000	19.50000	0.0	1.1185	0.15007	-	-
		24.00000	-16.00000	19.50000	0.0	1.0547	0.14296	-	-
		25.00000	-16.00000	19.50000	0.0	0.98565	0.13528	-	-
		26.00000	-16.00000	19.50000	0.0	0.91352	0.12680	-	-
		27.00000	-16.00000	19.50000	0.0	0.84030	0.11692	-	-
		28.00000	-16.00000	19.50000	0.0	0.76764	0.10460	-	-
		29.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		30.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		31.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		32.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		33.00000	-16.00000	19.50000	0.0	0.75000	0.099421	-	-
		34.00000	-16.00000	19.50000	0.0	0.50250	0.066612	-	-
		35.00000	-16.00000	19.50000	0.0	0.47001	0.062507	-	-
		36.00000	-16.00000	19.50000	0.0	0.42445	0.057066	-	-
		37.00000	-16.00000	19.50000	0.0	0.36847	0.050647	-	-
		38.00000	-16.00000	19.50000	0.0	0.30472	0.043543	-	-
		39.00000	-16.00000	19.50000	0.0	0.23565	0.035855	-	-
		40.00000	-16.00000	19.50000	0.0	0.16352	0.027376	-	-
		41.00000	-16.00000	19.50000	0.0	0.090299	0.017504	-	-
		42.00000	-16.00000	19.50000	0.0	0.017640	0.0051808	-	-
		43.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-16.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-11.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-10.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-9.00000	-15.00000	19.50000	0.032715	0.072459	0.020669	-	-
		-8.00000	-15.00000	19.50000	0.058484	0.15300	0.034421	-	-
		-7.00000	-15.00000	19.50000	0.075418	0.23687	0.045197	-	-
		-6.00000	-15.00000	19.50000	0.083777	0.32269	0.054869	-	-
		-5.00000	-15.00000	19.50000	0.084056	0.40867	0.064339	-	-
		-4.00000	-15.00000	19.50000	0.077016	0.49266	0.073755	-	-
		-3.00000	-15.00000	19.50000	0.063688	0.57212	0.082741	-	-
		-2.00000	-15.00000	19.50000	0.045366	0.64418	0.090623	-	-
		-1.00000	-15.00000	19.50000	0.023573	0.70578	0.096654	-	-
		0.00000	-15.00000	19.50000	0.0	0.75375	0.10020	-	-
		1.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		2.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		3.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		4.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		5.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		6.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		7.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		8.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		9.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		10.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		11.00000	-15.00000	19.50000	0.0	1.1975	0.16380	-	-
		12.00000	-15.00000	19.50000	0.0	1.2780	0.17446	-	-
		13.00000	-15.00000	19.50000	0.0	1.3619	0.18384	-	-
		14.00000	-15.00000	19.50000	0.0	1.4477	0.19312	-	-
		15.00000	-15.00000	19.50000	0.0	1.5337	0.20292	-	-
		16.00000	-15.00000	19.50000	0.0	1.6177	0.21334	-	-
		17.00000	-15.00000	19.50000	0.0	1.6971	0.22401	-	-
		18.00000	-15.00000	19.50000	0.0	1.7692	0.23422	-	-
		19.00000	-15.00000	19.50000	0.0	1.8308	0.24309	-	-
		20.00000	-15.00000	19.50000	0.0	1.5075	0.20041	-	-
		21.00000	-15.00000	19.50000	0.0	1.8308	0.24309	-	-
		22.00000	-15.00000	19.50000	0.0	1.7692	0.23422	-	-
		23.00000	-15.00000	19.50000	0.0	1.6971	0.22401	-	-
		24.00000	-15.00000	19.50000	0.0	1.6177	0.21334	-	-
		25.00000	-15.00000	19.50000	0.0	1.5337	0.20292	-	-
		26.00000	-15.00000	19.50000	0.0	1.4477	0.19312	-	-
		27.00000	-15.00000	19.50000	0.0	1.3619	0.18384	-	-
		28.00000	-15.00000	19.50000	0.0	1.2780	0.17446	-	-
		29.00000	-15.00000	19.50000	0.0	1.1975	0.16380	-	-
		30.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		31.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		32.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		33.00000	-15.00000	19.50000	0.0	1.1250	0.14956	-	-
		34.00000	-15.00000	19.50000	0.0	0.75375	0.10020	-	-
		35.00000	-15.00000	19.50000	0.0	0.70578	0.093530	-	-
		36.00000	-15.00000	19.50000	0.0	0.64418	0.084661	-	-
		37.00000	-15.00000	19.50000	0.0	0.57212	0.074453	-	-
		38.00000	-15.00000	19.50000	0.0	0.49266	0.063784	-	-
		39.00000	-15.00000	19.50000	0.0	0.40867	0.053363	-	-
		40.00000	-15.00000	19.50000	0.0	0.32269	0.043560	-	-
		41.00000	-15.00000	19.50000	0.0	0.23687	0.034282	-	-
		42.00000	-15.00000	19.50000	0.0	0.15300	0.024902	-	-
		43.00000	-15.00000	19.50000	0.0	0.072459	0.014240	-	-
		44.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-15.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-11.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-10.00000	-14.00000	19.50000	0.015542	0.023011	0.0095675	-	-
		-9.00000	-14.00000	19.50000	0.058885	0.10090	0.027852	-	-
		-8.00000	-14.00000	19.50000	0.092524	0.18543	0.041057	-	-
		-7.00000	-14.00000	19.50000	0.11622	0.27596	0.052729	-	-
		-6.00000	-14.00000	19.50000	0.12992	0.37155	0.065034	-	-
		-5.00000	-14.00000	19.50000	0.133980	0.47078	0.078941	-	-
		-4.00000	-14.00000	19.50000	0.12832	0.57182	0.098093	-	-
		-3.00000	-14.00000	19.50000	0.11427	0.67227	0.12050	-	-
		-2.00000	-14.00000	19.50000	0.092781	0.76927	0.13811	-	-
		-1.00000	-14.00000	19.50000	0.065343	0.85951	0.15033	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-1.00000	-14.00000	19.50000	0.033743	0.93935	0.15677	-	-
		0.00000	-14.00000	19.50000	0.0	1.0050	0.15745	-	-
		1.00000	-14.00000	19.50000	0.0	1.5000	0.23501	-	-
		2.00000	-14.00000	19.50000	0.0	1.5000	0.23501	-	-
		3.00000	-14.00000	19.50000	0.0	1.5000	0.23501	-	-
		4.00000	-14.00000	19.50000	0.0	1.5000	0.23501	-	-
		5.00000	-14.00000	19.50000	0.0	1.5000	0.23501	-	-
		6.00000	-14.00000	19.50000	0.0	1.5000	0.23501	-	-
		7.00000	-14.00000	19.50000	0.0	1.5000	0.23501	-	-
		8.00000	-14.00000	19.50000	0.0	1.5000	0.23501	-	-
		9.00000	-14.00000	19.50000	0.0	1.5230	0.24072	-	-
		10.00000	-14.00000	19.50000	0.0	1.6009	0.25260	-	-
		11.00000	-14.00000	19.50000	0.0	1.6854	0.26240	-	-
		12.00000	-14.00000	19.50000	0.0	1.7760	0.27211	-	-
		13.00000	-14.00000	19.50000	0.0	1.8715	0.28319	-	-
		14.00000	-14.00000	19.50000	0.0	1.9708	0.29648	-	-
		15.00000	-14.00000	19.50000	0.0	2.0718	0.31214	-	-
		16.00000	-14.00000	19.50000	0.0	2.1723	0.32968	-	-
		17.00000	-14.00000	19.50000	0.0	2.2693	0.34803	-	-
		18.00000	-14.00000	19.50000	0.0	2.3595	0.36572	-	-
		19.00000	-14.00000	19.50000	0.0	2.4393	0.38106	-	-
		20.00000	-14.00000	19.50000	0.0	2.0100	0.31491	-	-
		21.00000	-14.00000	19.50000	0.0	2.4393	0.38106	-	-
		22.00000	-14.00000	19.50000	0.0	2.3595	0.36572	-	-
		23.00000	-14.00000	19.50000	0.0	2.2693	0.34803	-	-
		24.00000	-14.00000	19.50000	0.0	2.1723	0.32968	-	-
		25.00000	-14.00000	19.50000	0.0	2.0718	0.31214	-	-
		26.00000	-14.00000	19.50000	0.0	1.9708	0.29648	-	-
		27.00000	-14.00000	19.50000	0.0	1.8715	0.28319	-	-
		28.00000	-14.00000	19.50000	0.0	1.7760	0.27211	-	-
		29.00000	-14.00000	19.50000	0.0	1.6854	0.26240	-	-
		30.00000	-14.00000	19.50000	0.0	1.6009	0.25260	-	-
		31.00000	-14.00000	19.50000	0.0	1.5230	0.24072	-	-
		32.00000	-14.00000	19.50000	0.0	1.5000	0.23501	-	-
		33.00000	-14.00000	19.50000	0.0	1.5000	0.23501	-	-
		34.00000	-14.00000	19.50000	0.0	1.0050	0.15745	-	-
		35.00000	-14.00000	19.50000	0.0	0.93935	0.14605	-	-
		36.00000	-14.00000	19.50000	0.0	0.85951	0.13071	-	-
		37.00000	-14.00000	19.50000	0.0	0.76927	0.11302	-	-
		38.00000	-14.00000	19.50000	0.0	0.67227	0.09468	-	-
		39.00000	-14.00000	19.50000	0.0	0.57182	0.077129	-	-
		40.00000	-14.00000	19.50000	0.0	0.47079	0.061471	-	-
		41.00000	-14.00000	19.50000	0.0	0.37155	0.048185	-	-
		42.00000	-14.00000	19.50000	0.0	0.27596	0.037103	-	-
		43.00000	-14.00000	19.50000	0.0	0.18543	0.027390	-	-
		44.00000	-14.00000	19.50000	0.0	0.10090	0.017588	-	-
		45.00000	-14.00000	19.50000	0.0	0.023011	0.0057106	-	-
		46.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-14.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	-13.00000	19.50000	0.027422	0.031364	0.013024	-	-
		-11.00000	-13.00000	19.50000	0.081362	0.10718	0.030971	-	-
		-10.00000	-13.00000	19.50000	0.12513	0.19147	0.044446	-	-
		-9.00000	-13.00000	19.50000	0.15820	0.28412	0.057756	-	-
		-8.00000	-13.00000	19.50000	0.18014	0.38470	0.073621	-	-
		-7.00000	-13.00000	19.50000	0.19075	0.49239	0.10257	-	-
		-6.00000	-13.00000	19.50000	0.19006	0.60585	0.14041	-	-
		-5.00000	-13.00000	19.50000	0.17845	0.72319	0.17479	-	-
		-4.00000	-13.00000	19.50000	0.15672	0.84184	0.20445	-	-
		-3.00000	-13.00000	19.50000	0.12611	0.95854	0.22791	-	-
		-2.00000	-13.00000	19.50000	0.088319	1.06694	0.24380	-	-
		-1.00000	-13.00000	19.50000	0.045468	1.1702	0.25112	-	-
		0.00000	-13.00000	19.50000	0.0	1.2562	0.24949	-	-
		1.00000	-13.00000	19.50000	0.0	1.8750	0.37237	-	-
		2.00000	-13.00000	19.50000	0.0	1.8750	0.37237	-	-
		3.00000	-13.00000	19.50000	0.0	1.8750	0.37237	-	-
		4.00000	-13.00000	19.50000	0.0	1.8750	0.37237	-	-
		5.00000	-13.00000	19.50000	0.0	1.8750	0.37237	-	-
		6.00000	-13.00000	19.50000	0.0	1.8750	0.37237	-	-
		7.00000	-13.00000	19.50000	0.0	1.8750	0.37237	-	-
		8.00000	-13.00000	19.50000	0.0	1.9064	0.37932	-	-
		9.00000	-13.00000	19.50000	0.0	1.9822	0.38998	-	-
		10.00000	-13.00000	19.50000	0.0	2.0665	0.39925	-	-
		11.00000	-13.00000	19.50000	0.0	2.1591	0.40947	-	-
		12.00000	-13.00000	19.50000	0.0	2.2597	0.42252	-	-
		13.00000	-13.00000	19.50000	0.0	2.3674	0.43964	-	-
		14.00000	-13.00000	19.50000	0.0	2.4809	0.46139	-	-
		15.00000	-13.00000	19.50000	0.0	2.5982	0.48745	-	-
		16.00000	-13.00000	19.50000	0.0	2.7168	0.51673	-	-
		17.00000	-13.00000	19.50000	0.0	2.8335	0.54734	-	-
		18.00000	-13.00000	19.50000	0.0	2.9444	0.57686	-	-
		19.00000	-13.00000	19.50000	0.0	3.0452	0.60257	-	-
		20.00000	-13.00000	19.50000	0.0	2.5125	0.49898	-	-
		21.00000	-13.00000	19.50000	0.0	3.0452	0.60257	-	-
		22.00000	-13.00000	19.50000	0.0	2.9444	0.57686	-	-
		23.00000	-13.00000	19.50000	0.0	2.8335	0.54734	-	-
		24.00000	-13.00000	19.50000	0.0	2.7168	0.51673	-	-
		25.00000	-13.00000	19.50000	0.0	2.5982	0.48745	-	-
		26.00000	-13.00000	19.50000	0.0	2.4809	0.46139	-	-
		27.00000	-13.00000	19.50000	0.0	2.3674	0.43964	-	-
		28.00000	-13.00000	19.50000	0.0	2.2597	0.42252	-	-
		29.00000	-13.00000	19.50000	0.0	2.1591	0.40947	-	-
		30.00000	-13.00000	19.50000	0.0	2.0665	0.39925	-	-
		31.00000	-13.00000	19.50000	0.0	1.9822	0.38998	-	-
		32.00000	-13.00000	19.50000	0.0	1.9064	0.37932	-	-
		33.00000	-13.00000	19.50000	0.0	1.8750	0.37237	-	-
		34.00000	-13.00000	19.50000	0.0	1.2562	0.24949	-	-
		35.00000	-13.00000	19.50000	0.0	1.1702	0.23020	-	-
		36.00000	-13.00000	19.50000	0.0	1.0694	0.20448	-	-
		37.00000	-13.00000	19.50000	0.0	0.95854	0.17496	-	-
		38.00000	-13.00000	19.50000	0.0	0.84184	0.14435	-	-
		39.00000	-13.00000	19.50000	0.0	0.72319	0.11508	-	-
		40.00000	-13.00000	19.50000	0.0	0.60585	0.089013	-	-
		41.00000	-13.00000	19.50000	0.0	0.49239	0.067270	-	-
		42.00000	-13.00000	19.50000	0.0	0.38470	0.050141	-	-
		43.00000	-13.00000	19.50000	0.0	0.28412	0.037099	-	-
		44.00000	-13.00000	19.50000	0.0	0.19147	0.026879	-	-
		45.00000	-13.00000	19.50000	0.0	0.10718	0.017606	-	-
		46.00000	-13.00000	19.50000	0.0	0.031364	0.0069484	-	-
		47.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		48.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-13.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	-12.00000	19.50000	0.031364	0.027422	0.013024	-	-
		-12.00000	-12.00000	19.50000	0.096510	0.096510	0.031134	-	-
		-11.00000	-12.00000	19.50000	0.15243	0.17636	0.045193	-	-
		-10.00000	-12.00000	19.50000	0.19733	0.26634	0.060087	-	-
		-9.00000	-12.00000	19.50000	0.23044	0.36662	0.079371	-	-
		-8.00000	-12.00000	19.50000	0.25132	0.47704	0.13200	-	-
		-7.00000	-12.00000	19.50000	0.25892	0.59704	0.18383	-	-
		-6.00000	-12.00000	19.50000	0.25367	0.72546	0.23393	-	-
		-5.00000	-12.00000	19.50000	0.23562	0.86040	0.28050	-	-
		-4.00000	-12.00000	19.50000	0.20551	0.99916	0.32127	-	-
		-3.00000	-12.00000	19.50000	0.16465	1.1381	0.35381	-	-
		-2.00000	-12.00000	19.50000	0.11502	1.2727	0.37589	-	-
		-1.00000	-12.00000	19.50000	0.059133	1.3977	0.38582	-	-
		0.00000	-12.00000	19.50000	0.0	1.5075	0.38276	-	-
		1.00000	-12.00000	19.50000	0.0	2.2500	0.57129	-	-
		2.00000	-12.00000	19.50000	0.0	2.2500	0.57129	-	-
		3.00000	-12.00000	19.50000	0.0	2.2500	0.57129	-	-
		4.00000	-12.00000	19.50000	0.0	2.2500	0.57129	-	-
		5.00000	-12.00000	19.50000	0.0	2.2500	0.57129	-	-
		6.00000	-12.00000	19.50000	0.0	2.2500	0.57129	-	-
		7.00000	-12.00000	19.50000	0.0	2.2774	0.57737	-	-
		8.00000	-12.00000	19.50000	0.0	2.3465	0.58686	-	-
		9.00000	-12.00000	19.50000	0.0	2.4264	0.59553	-	-
		10.00000	-12.00000	19.50000	0.0	2.5163	0.60581	-	-
		11.00000	-12.00000	19.50000	0.0	2.6166	0.62003	-	-
		12.00000	-12.00000	19.50000	0.0	2.7270	0.64005	-	-
		13.00000	-12.00000	19.50000	0.0	2.8470	0.66705	-	-
		14.00000	-12.00000	19.50000	0.0	2.9755	0.70132	-	-
		15.00000	-12.00000	19.50000	0.0	3.1104	0.74217	-	-
		16.00000	-12.00000	19.50000	0.0	3.2492	0.78783	-	-
		17.00000	-12.00000	19.50000	0.0	3.3881	0.83558	-	-
		18.00000	-12.00000	19.50000	0.0	3.5227	0.88186	-	-
		19.00000	-12.00000	19.50000	0.0	3.6477	0.92268	-	-
		20.00000	-12.00000	19.50000	0.0	3.0150	0.76553	-	-
		21.00000	-12.00000	19.50000	0.0	3.6477	0.92268	-	-
		22.00000	-12.00000	19.50000	0.0	3.5227	0.88186	-	-
		23.00000	-12.00000	19.50000	0.0	3.3881	0.83558	-	-
		24.00000	-12.00000	19.50000	0.0	3.2492	0.78783	-	-
		25.00000	-12.00000	19.50000	0.0	3.1104	0.74217	-	-
		26.00000	-12.00000	19.50000	0.0	2.9755	0.70132	-	-
		27.00000	-12.00000	19.50000	0.0	2.8470	0.66705	-	-
		28.00000	-12.00000	19.50000	0.0	2.7270	0.64005	-	-
		29.00000	-12.00000	19.50000	0.0	2.6166	0.62003	-	-
		30.00000	-12.00000	19.50000	0.0	2.5163	0.60581	-	-
		31.00000	-12.00000	19.50000	0.0	2.4264	0.59553	-	-
		32.00000	-12.00000	19.50000	0.0	2.3465	0.58686	-	-
		33.00000	-12.00000	19.50000	0.0	2.2774	0.57737	-	-
		34.00000	-12.00000	19.50000	0.0	1.5075	0.38276	-	-
		35.00000	-12.00000	19.50000	0.0	1.3977	0.35139	-	-
		36.00000	-12.00000	19.50000	0.0	1.2727	0.31057	-	-
		37.00000	-12.00000	19.50000	0.0	1.1381	0.26429	-	-
		38.00000	-12.00000	19.50000	0.0	0.99916	0.21654	-	-
		39.00000	-12.00000	19.50000	0.0	0.86040	0.17088	-	-
		40.00000	-12.00000	19.50000	0.0	0.72546	0.13003	-	-
		41.00000	-12.00000	19.50000	0.0	0.59704	0.095763	-	-
		42.00000	-12.00000	19.50000	0.0	0.47704	0.068764	-	-
		43.00000	-12.00000	19.50000	0.0	0.36662	0.048737	-	-
		44.00000	-12.00000	19.50000	0.0	0.26634	0.034515	-	-
		45.00000	-12.00000	19.50000	0.0	0.17636	0.024241	-	-
		46.00000	-12.00000	19.50000	0.0	0.096510	0.015567	-	-
		47.00000	-12.00000	19.50000	0.0	0.027422	0.0060752	-	-
		48.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-12.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	-11.00000	19.50000	0.023011	0.015192	0.0095675	-	-
		-13.00000	-11.00000	19.50000	0.10718	0.081362	0.030971	-	-
		-12.00000	-11.00000	19.50000	0.17636	0.15243	0.045193	-	-
		-11.00000	-11.00000	19.50000	0.22909	0.22909	0.059326	-	-
		-10.00000	-11.00000	19.50000	0.27601	0.32371	0.088755	-	-
		-9.00000	-11.00000	19.50000	0.31000	0.43076	0.15403	-	-
		-8.00000	-11.00000	19.50000	0.33014	0.55049	0.22098	-	-
		-7.00000	-11.00000	19.50000	0.33564	0.68272	0.28879	-	-
		-6.00000	-11.00000	19.50000	0.32604	0.82660	0.35544	-	-
		-5.00000	-11.00000	19.50000	0.30132	0.98042	0.41808	-	-
		-4.00000	-11.00000	19.50000	0.26208	1.1414	0.47335	-	-
		-3.00000	-11.00000	19.50000	0.20970	1.3055	0.51782	-	-
		-2.00000	-11.00000	19.50000	0.14787	1.4675	0.54837	-	-
		-1.00000	-11.00000	19.50000	0.077372	1.6209	0.56257	-	-
		0.00000	-11.00000	19.50000	0.0	1.7587	0.55906	-	-
		1.00000	-11.00000	19.50000	0.0	2.6250	0.83442	-	-
		2.00000	-11.00000	19.50000	0.0	2.6250	0.83442	-	-
		3.00000	-11.00000	19.50000	0.0	2.6250	0.83442	-	-
		4.00000	-11.00000	19.50000	0.0	2.6250	0.83442	-	-
		5.00000	-11.00000	19.50000	0.0	2.6250	0.83442	-	-
		6.00000	-11.00000	19.50000	0.0	2.6405	0.83828	-	-
		7.00000	-11.00000	19.50000	0.0	2.7064	0.84778	-	-
		8.00000	-11.00000	19.50000	0.0	2.7774	0.85537	-	-
		9.00000	-11.00000	19.50000	0.0	2.8541	0.86408	-	-
		10.00000	-11.00000	19.50000	0.0	2.9487	0.87808	-	-
		11.00000	-11.00000	19.50000	0.0	3.0558	0.89900	-	-
		12.00000	-11.00000	19.50000	0.0	3.1755	0.92881	-	-
		13.00000	-11.00000	19.50000	0.0	3.3077	0.96872	-	-
		14.00000	-11.00000	19.50000	0.0	3.4516	1.0189	-	-
		15.00000	-11.00000	19.50000	0.0	3.6054	1.0785	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		16.00000	-11.00000	19.50000	0.0	3.7664	1.1450	-	-
		17.00000	-11.00000	19.50000	0.0	3.9305	1.2149	-	-
		18.00000	-11.00000	19.50000	0.0	4.0925	1.2833	-	-
		19.00000	-11.00000	19.50000	0.0	4.2459	1.3448	-	-
		20.00000	-11.00000	19.50000	0.0	3.5175	1.1181	-	-
		21.00000	-11.00000	19.50000	0.0	4.2459	1.3448	-	-
		22.00000	-11.00000	19.50000	0.0	4.0925	1.2833	-	-
		23.00000	-11.00000	19.50000	0.0	3.9305	1.2149	-	-
		24.00000	-11.00000	19.50000	0.0	3.7664	1.1450	-	-
		25.00000	-11.00000	19.50000	0.0	3.6054	1.0785	-	-
		26.00000	-11.00000	19.50000	0.0	3.4516	1.0189	-	-
		27.00000	-11.00000	19.50000	0.0	3.3077	0.96872	-	-
		28.00000	-11.00000	19.50000	0.0	3.1755	0.92881	-	-
		29.00000	-11.00000	19.50000	0.0	3.0558	0.89900	-	-
		30.00000	-11.00000	19.50000	0.0	2.9487	0.87808	-	-
		31.00000	-11.00000	19.50000	0.0	2.8541	0.86408	-	-
		32.00000	-11.00000	19.50000	0.0	2.7774	0.85537	-	-
		33.00000	-11.00000	19.50000	0.0	2.7064	0.84778	-	-
		34.00000	-11.00000	19.50000	0.0	1.7743	0.56292	-	-
		35.00000	-11.00000	19.50000	0.0	1.6209	0.51035	-	-
		36.00000	-11.00000	19.50000	0.0	1.4675	0.44891	-	-
		37.00000	-11.00000	19.50000	0.0	1.3055	0.38047	-	-
		38.00000	-11.00000	19.50000	0.0	1.1414	0.31058	-	-
		39.00000	-11.00000	19.50000	0.0	0.98042	0.24404	-	-
		40.00000	-11.00000	19.50000	0.0	0.82660	0.18451	-	-
		41.00000	-11.00000	19.50000	0.0	0.68272	0.13430	-	-
		42.00000	-11.00000	19.50000	0.0	0.55049	0.094395	-	-
		43.00000	-11.00000	19.50000	0.0	0.43076	0.064586	-	-
		44.00000	-11.00000	19.50000	0.0	0.32371	0.043663	-	-
		45.00000	-11.00000	19.50000	0.0	0.22909	0.029663	-	-
		46.00000	-11.00000	19.50000	0.0	0.15243	0.020952	-	-
		47.00000	-11.00000	19.50000	0.0	0.081362	0.013365	-	-
		48.00000	-11.00000	19.50000	0.0	0.015542	0.0038569	-	-
		49.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-11.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	-10.00000	19.50000	0.10090	0.058885	0.027852	-	-
		-13.00000	-10.00000	19.50000	0.19147	0.12513	0.044446	-	-
		-12.00000	-10.00000	19.50000	0.26634	0.19733	0.060087	-	-
		-11.00000	-10.00000	19.50000	0.32371	0.27601	0.090114	-	-
		-10.00000	-10.00000	19.50000	0.36167	0.36167	0.16362	-	-
		-9.00000	-10.00000	19.50000	0.39769	0.47416	0.24505	-	-
		-8.00000	-10.00000	19.50000	0.41831	0.60217	0.33048	-	-
		-7.00000	-10.00000	19.50000	0.42234	0.74607	0.41807	-	-
		-6.00000	-10.00000	19.50000	0.40886	0.90557	0.50476	-	-
		-5.00000	-10.00000	19.50000	0.38120	1.0794	0.58657	-	-
		-4.00000	-10.00000	19.50000	0.34892	1.2648	0.65907	-	-
		-3.00000	-10.00000	19.50000	0.28946	1.4575	0.71777	-	-
		-2.00000	-10.00000	19.50000	0.20708	1.6514	0.75863	-	-
		-1.00000	-10.00000	19.50000	0.10797	1.8386	0.77851	-	-
		0.00000	-10.00000	19.50000	0.0	2.0100	0.77550	-	-
		1.00000	-10.00000	19.50000	0.0	3.0000	1.1575	-	-
		2.00000	-10.00000	19.50000	0.0	3.0000	1.1575	-	-
		3.00000	-10.00000	19.50000	0.0	3.0000	1.1575	-	-
		4.00000	-10.00000	19.50000	0.0	3.0000	1.1575	-	-
		5.00000	-10.00000	19.50000	0.0	3.0000	1.1575	-	-
		6.00000	-10.00000	19.50000	0.0	3.0589	1.1677	-	-
		7.00000	-10.00000	19.50000	0.0	3.1251	1.1750	-	-
		8.00000	-10.00000	19.50000	0.0	3.1973	1.1830	-	-
		9.00000	-10.00000	19.50000	0.0	3.2760	1.1947	-	-
		10.00000	-10.00000	19.50000	0.0	3.3617	1.2125	-	-
		11.00000	-10.00000	19.50000	0.0	3.4742	1.2417	-	-
		12.00000	-10.00000	19.50000	0.0	3.6022	1.2830	-	-
		13.00000	-10.00000	19.50000	0.0	3.7461	1.3377	-	-
		14.00000	-10.00000	19.50000	0.0	3.9056	1.4063	-	-
		15.00000	-10.00000	19.50000	0.0	4.0794	1.4876	-	-
		16.00000	-10.00000	19.50000	0.0	4.2648	1.5790	-	-
		17.00000	-10.00000	19.50000	0.0	4.4575	1.6759	-	-
		18.00000	-10.00000	19.50000	0.0	4.6514	1.7722	-	-
		19.00000	-10.00000	19.50000	0.0	4.8386	1.8605	-	-
		20.00000	-10.00000	19.50000	0.0	4.0200	1.5510	-	-
		21.00000	-10.00000	19.50000	0.0	4.8386	1.8605	-	-
		22.00000	-10.00000	19.50000	0.0	4.6514	1.7722	-	-
		23.00000	-10.00000	19.50000	0.0	4.4575	1.6759	-	-
		24.00000	-10.00000	19.50000	0.0	4.2648	1.5790	-	-
		25.00000	-10.00000	19.50000	0.0	4.0794	1.4876	-	-
		26.00000	-10.00000	19.50000	0.0	3.9056	1.4063	-	-
		27.00000	-10.00000	19.50000	0.0	3.7461	1.3377	-	-
		28.00000	-10.00000	19.50000	0.0	3.6022	1.2830	-	-
		29.00000	-10.00000	19.50000	0.0	3.4742	1.2417	-	-
		30.00000	-10.00000	19.50000	0.0	3.3617	1.2125	-	-
		31.00000	-10.00000	19.50000	0.0	3.2760	1.1947	-	-
		32.00000	-10.00000	19.50000	0.0	3.1973	1.1830	-	-
		33.00000	-10.00000	19.50000	0.0	3.1251	1.1750	-	-
		34.00000	-10.00000	19.50000	0.0	2.0689	0.78576	-	-
		35.00000	-10.00000	19.50000	0.0	1.8386	0.70308	-	-
		36.00000	-10.00000	19.50000	0.0	1.6514	0.61477	-	-
		37.00000	-10.00000	19.50000	0.0	1.4575	0.51846	-	-
		38.00000	-10.00000	19.50000	0.0	1.2648	0.42155	-	-
		39.00000	-10.00000	19.50000	0.0	1.0794	0.33019	-	-
		40.00000	-10.00000	19.50000	0.0	0.90557	0.24895	-	-
		41.00000	-10.00000	19.50000	0.0	0.74607	0.18026	-	-
		42.00000	-10.00000	19.50000	0.0	0.60217	0.12550	-	-
		43.00000	-10.00000	19.50000	0.0	0.47416	0.084229	-	-
		44.00000	-10.00000	19.50000	0.0	0.36167	0.055002	-	-
		45.00000	-10.00000	19.50000	0.0	0.27601	0.037228	-	-
		46.00000	-10.00000	19.50000	0.0	0.19733	0.025572	-	-
		47.00000	-10.00000	19.50000	0.0	0.12513	0.017567	-	-
		48.00000	-10.00000	19.50000	0.0	0.058885	0.010264	-	-
		49.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-10.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		-16.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	-9.00000	19.50000	0.072459	0.032715	0.020669	-	-
		-14.00000	-9.00000	19.50000	0.18543	0.092524	0.041057	-	-
		-13.00000	-9.00000	19.50000	0.28412	0.15820	0.057756	-	-
		-12.00000	-9.00000	19.50000	0.36662	0.23044	0.079371	-	-
		-11.00000	-9.00000	19.50000	0.43076	0.31000	0.17077	-	-
		-10.00000	-9.00000	19.50000	0.47416	0.39769	0.26239	-	-
		-9.00000	-9.00000	19.50000	0.49426	0.49426	0.35209	-	-
		-8.00000	-9.00000	19.50000	0.51681	0.62881	0.45908	-	-
		-7.00000	-9.00000	19.50000	0.52064	0.78313	0.56925	-	-
		-6.00000	-9.00000	19.50000	0.53291	0.95779	0.67845	-	-
		-5.00000	-9.00000	19.50000	0.52055	1.1523	0.78159	-	-
		-4.00000	-9.00000	19.50000	0.47247	1.3643	0.87311	-	-
		-3.00000	-9.00000	19.50000	0.39047	1.5896	0.94750	-	-
		-2.00000	-9.00000	19.50000	0.27898	1.8211	0.99984	-	-
		-1.00000	-9.00000	19.50000	0.14542	2.0488	1.0263	-	-
		0.00000	-9.00000	19.50000	0.0	2.2612	1.0245	-	-
		1.00000	-9.00000	19.50000	0.0	3.3750	1.5291	-	-
		2.00000	-9.00000	19.50000	0.0	3.3750	1.5291	-	-
		3.00000	-9.00000	19.50000	0.0	3.3750	1.5291	-	-
		4.00000	-9.00000	19.50000	0.0	3.3750	1.5291	-	-
		5.00000	-9.00000	19.50000	0.0	3.4077	1.5356	-	-
		6.00000	-9.00000	19.50000	0.0	3.4675	1.5428	-	-
		7.00000	-9.00000	19.50000	0.0	3.5332	1.5498	-	-
		8.00000	-9.00000	19.50000	0.0	3.6054	1.5598	-	-
		9.00000	-9.00000	19.50000	0.0	3.6850	1.5756	-	-
		10.00000	-9.00000	19.50000	0.0	3.7727	1.5998	-	-
		11.00000	-9.00000	19.50000	0.0	3.8693	1.6342	-	-
		12.00000	-9.00000	19.50000	0.0	4.0038	1.6872	-	-
		13.00000	-9.00000	19.50000	0.0	4.1581	1.7574	-	-
		14.00000	-9.00000	19.50000	0.0	4.3328	1.8454	-	-
		15.00000	-9.00000	19.50000	0.0	4.5273	1.9504	-	-
		16.00000	-9.00000	19.50000	0.0	4.7393	2.0696	-	-
		17.00000	-9.00000	19.50000	0.0	4.9646	2.1979	-	-
		18.00000	-9.00000	19.50000	0.0	5.1961	2.3279	-	-
		19.00000	-9.00000	19.50000	0.0	5.4238	2.4500	-	-
		20.00000	-9.00000	19.50000	0.0	5.5225	2.0490	-	-
		21.00000	-9.00000	19.50000	0.0	5.4238	2.4500	-	-
		22.00000	-9.00000	19.50000	0.0	5.1961	2.3279	-	-
		23.00000	-9.00000	19.50000	0.0	4.9646	2.1979	-	-
		24.00000	-9.00000	19.50000	0.0	4.7393	2.0696	-	-
		25.00000	-9.00000	19.50000	0.0	4.5273	1.9504	-	-
		26.00000	-9.00000	19.50000	0.0	4.3328	1.8454	-	-
		27.00000	-9.00000	19.50000	0.0	4.1581	1.7574	-	-
		28.00000	-9.00000	19.50000	0.0	4.0038	1.6872	-	-
		29.00000	-9.00000	19.50000	0.0	3.8693	1.6342	-	-
		30.00000	-9.00000	19.50000	0.0	3.7727	1.5998	-	-
		31.00000	-9.00000	19.50000	0.0	3.6850	1.5756	-	-
		32.00000	-9.00000	19.50000	0.0	3.6054	1.5598	-	-
		33.00000	-9.00000	19.50000	0.0	3.5332	1.5498	-	-
		34.00000	-9.00000	19.50000	0.0	2.3538	0.0382	-	-
		35.00000	-9.00000	19.50000	0.0	2.0816	0.92728	-	-
		36.00000	-9.00000	19.50000	0.0	1.8211	0.79873	-	-
		37.00000	-9.00000	19.50000	0.0	1.5896	0.66878	-	-
		38.00000	-9.00000	19.50000	0.0	1.3643	0.54048	-	-
		39.00000	-9.00000	19.50000	0.0	1.1523	0.42126	-	-
		40.00000	-9.00000	19.50000	0.0	0.95779	0.31623	-	-
		41.00000	-9.00000	19.50000	0.0	0.78313	0.22823	-	-
		42.00000	-9.00000	19.50000	0.0	0.62881	0.15808	-	-
		43.00000	-9.00000	19.50000	0.0	0.49426	0.10504	-	-
		44.00000	-9.00000	19.50000	0.0	0.39769	0.070644	-	-
		45.00000	-9.00000	19.50000	0.0	0.31000	0.046480	-	-
		46.00000	-9.00000	19.50000	0.0	0.23044	0.030634	-	-
		47.00000	-9.00000	19.50000	0.0	0.15820	0.020657	-	-
		48.00000	-9.00000	19.50000	0.0	0.092524	0.013667	-	-
		49.00000	-9.00000	19.50000	0.0	0.032715	0.0064293	-	-
		50.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-9.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-8.00000	19.50000	0.017640	0.0061684	0.0069924	-	-
		-15.00000	-8.00000	19.50000	0.15300	0.058484	0.034421	-	-
		-14.00000	-8.00000	19.50000	0.27596	0.11622	0.052729	-	-
		-13.00000	-8.00000	19.50000	0.38470	0.18014	0.073621	-	-
		-12.00000	-8.00000	19.50000	0.47704	0.25112	0.15632	-	-
		-11.00000	-8.00000	19.50000	0.55049	0.33014	0.26769	-	-
		-10.00000	-8.00000	19.50000	0.60217	0.41831	0.38225	-	-
		-9.00000	-8.00000	19.50000	0.62881	0.51681	0.49615	-	-
		-8.00000	-8.00000	19.50000	0.62684	0.62684	0.60293	-	-
		-7.00000	-8.00000	19.50000	0.68243	0.78931	0.73730	-	-
		-6.00000	-8.00000	19.50000	0.70449	0.97764	0.87032	-	-
		-5.00000	-8.00000	19.50000	0.68477	1.1927	0.99576	-	-
		-4.00000	-8.00000	19.50000	0.62137	1.4333	1.1069	-	-
		-3.00000	-8.00000	19.50000	0.51467	1.6955	1.1973	-	-
		-2.00000	-8.00000	19.50000	0.36880	1.9715	1.2611	-	-
		-1.00000	-8.00000	19.50000	0.19270	2.2490	1.2942	-	-
		0.00000	-8.00000	19.50000	0.0	2.5125	1.2939	-	-
		1.00000	-8.00000	19.50000	0.0	3.7500	1.9312	-	-
		2.00000	-8.00000	19.50000	0.0	3.7500	1.9312	-	-
		3.00000	-8.00000	19.50000	0.0	3.7500	1.9312	-	-
		4.00000	-8.00000	19.50000	0.0	3.7562	1.9330	-	-
		5.00000	-8.00000	19.50000	0.0	3.8085	1.9407	-	-
		6.00000	-8.00000	19.50000	0.0	3.8662	1.9468	-	-
		7.00000	-8.00000	19.50000	0.0	3.9301	1.9547	-	-
		8.00000	-8.00000	19.50000	0.0	4.0011	1.9674	-	-
		9.00000	-8.00000	19.50000	0.0	4.0801	1.9878	-	-
		10.00000	-8.00000	19.50000	0.0	4.1683	2.0184	-	-
		11.00000	-8.00000	19.50000	0.0	4.2668	2.0611	-	-
		12.00000	-8.00000	19.50000	0.0	4.3768	2.1175	-	-
		13.00000	-8.00000	19.50000	0.0	4.5393	2.2018	-	-
		14.00000	-8.00000	19.50000	0.0	4.7276	2.3084	-	-
		15.00000	-8.00000	19.50000	0.0	4.9427	2.4372	-	-
		16.00000	-8.00000	19.50000	0.0	5.1833	2.5858	-	-
		17.00000	-8.00000	19.50000	0.0	5.4455	2.7489	-	-
		18.00000	-8.00000	19.50000	0.0	5.7215	2.9179	-	-
		19.00000	-8.00000	19.50000	0.0	5.9990	3.0813	-	-
		20.00000	-8.00000	19.50000	0.0	5.0250	2.5878	-	-
		21.00000	-8.00000	19.50000	0.0	5.9990	3.0813	-	-
		22.00000	-8.00000	19.50000	0.0	5.7215	2.9179	-	-
		23.00000	-8.00000	19.50000	0.0	5.4455	2.7489	-	-
		24.00000	-8.00000	19.50000	0.0	5.1833	2.5858	-	-
		25.00000	-8.00000	19.50000	0.0	4.9427	2.4372	-	-
		26.00000	-8.00000	19.50000	0.0	4.7276	2.3084	-	-
		27.00000	-8.00000	19.50000	0.0	4.5393	2.2018	-	-
		28.00000	-8.00000	19.50000	0.0	4.3768	2.1175	-	-
		29.00000	-8.00000	19.50000	0.0	4.2668	2.0611	-	-
		30.00000	-8.00000	19.50000	0.0	4.1683	2.0184	-	-
		31.00000	-8.00000	19.50000	0.0	4.0801	1.9878	-	-
		32.00000	-8.00000	19.50000	0.0	4.0011	1.9674	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		33.00000	-8.00000	19.50000	0.0	3.9301	1.9547	-	-
		34.00000	-8.00000	19.50000	0.0	2.6287	1.3095	-	-
		35.00000	-8.00000	19.50000	0.0	2.3075	1.1596	-	-
		36.00000	-8.00000	19.50000	0.0	1.9776	0.98852	-	-
		37.00000	-8.00000	19.50000	0.0	1.6955	0.81766	-	-
		38.00000	-8.00000	19.50000	0.0	1.4333	0.65459	-	-
		39.00000	-8.00000	19.50000	0.0	1.1927	0.50601	-	-
		40.00000	-8.00000	19.50000	0.0	0.97764	0.37719	-	-
		41.00000	-8.00000	19.50000	0.0	0.78931	0.27057	-	-
		42.00000	-8.00000	19.50000	0.0	0.62684	0.18627	-	-
		43.00000	-8.00000	19.50000	0.0	0.51681	0.12993	-	-
		44.00000	-8.00000	19.50000	0.0	0.41831	0.087184	-	-
		45.00000	-8.00000	19.50000	0.0	0.33014	0.056610	-	-
		46.00000	-8.00000	19.50000	0.0	0.25112	0.036198	-	-
		47.00000	-8.00000	19.50000	0.0	0.18014	0.023479	-	-
		48.00000	-8.00000	19.50000	0.0	0.11622	0.015626	-	-
		49.00000	-8.00000	19.50000	0.0	0.058484	0.0095190	-	-
		50.00000	-8.00000	19.50000	0.0	0.0061684	0.0018116	-	-
		51.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-8.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-7.00000	19.50000	0.090299	0.026374	0.022616	-	-
		-15.00000	-7.00000	19.50000	0.23687	0.075418	0.045197	-	-
		-14.00000	-7.00000	19.50000	0.37155	0.12992	0.065034	-	-
		-13.00000	-7.00000	19.50000	0.49239	0.19075	0.11719	-	-
		-12.00000	-7.00000	19.50000	0.59704	0.25892	0.24462	-	-
		-11.00000	-7.00000	19.50000	0.68272	0.33564	0.38027	-	-
		-10.00000	-7.00000	19.50000	0.74607	0.42234	0.52213	-	-
		-9.00000	-7.00000	19.50000	0.78313	0.52064	0.66468	-	-
		-8.00000	-7.00000	19.50000	0.85180	0.63236	0.79934	-	-
		-7.00000	-7.00000	19.50000	0.87807	0.75942	0.91521	-	-
		-6.00000	-7.00000	19.50000	0.90406	0.95835	1.0721	-	-
		-5.00000	-7.00000	19.50000	0.88121	1.1923	1.2194	-	-
		-4.00000	-7.00000	19.50000	0.80445	1.4623	1.3493	-	-
		-3.00000	-7.00000	19.50000	0.67128	1.7659	1.4543	-	-
		-2.00000	-7.00000	19.50000	0.48443	2.0951	1.5281	-	-
		-1.00000	-7.00000	19.50000	0.25440	2.4349	1.5663	-	-
		0.00000	-7.00000	19.50000	0.0	2.7637	1.5668	-	-
		1.00000	-7.00000	19.50000	0.0	4.1250	2.3385	-	-
		2.00000	-7.00000	19.50000	0.0	4.1250	2.3385	-	-
		3.00000	-7.00000	19.50000	0.0	4.1250	2.3385	-	-
		4.00000	-7.00000	19.50000	0.0	4.1514	2.3436	-	-
		5.00000	-7.00000	19.50000	0.0	4.2004	2.3494	-	-
		6.00000	-7.00000	19.50000	0.0	4.2549	2.3553	-	-
		7.00000	-7.00000	19.50000	0.0	4.3157	2.3646	-	-
		8.00000	-7.00000	19.50000	0.0	4.3839	2.3800	-	-
		9.00000	-7.00000	19.50000	0.0	4.4606	2.4045	-	-
		10.00000	-7.00000	19.50000	0.0	4.5473	2.4405	-	-
		11.00000	-7.00000	19.50000	0.0	4.6456	2.4902	-	-
		12.00000	-7.00000	19.50000	0.0	4.7574	2.5553	-	-
		13.00000	-7.00000	19.50000	0.0	4.8844	2.6367	-	-
		14.00000	-7.00000	19.50000	0.0	5.0833	2.7588	-	-
		15.00000	-7.00000	19.50000	0.0	5.3173	2.9091	-	-
		16.00000	-7.00000	19.50000	0.0	5.5873	3.0863	-	-
		17.00000	-7.00000	19.50000	0.0	5.8909	3.2857	-	-
		18.00000	-7.00000	19.50000	0.0	6.2201	3.4984	-	-
		19.00000	-7.00000	19.50000	0.0	6.5599	3.7109	-	-
		20.00000	-7.00000	19.50000	0.0	5.5275	3.1336	-	-
		21.00000	-7.00000	19.50000	0.0	6.5599	3.7109	-	-
		22.00000	-7.00000	19.50000	0.0	6.2201	3.4984	-	-
		23.00000	-7.00000	19.50000	0.0	5.8909	3.2857	-	-
		24.00000	-7.00000	19.50000	0.0	5.5873	3.0863	-	-
		25.00000	-7.00000	19.50000	0.0	5.3173	2.9091	-	-
		26.00000	-7.00000	19.50000	0.0	5.0833	2.7588	-	-
		27.00000	-7.00000	19.50000	0.0	4.8844	2.6367	-	-
		28.00000	-7.00000	19.50000	0.0	4.7574	2.5553	-	-
		29.00000	-7.00000	19.50000	0.0	4.6456	2.4902	-	-
		30.00000	-7.00000	19.50000	0.0	4.5473	2.4405	-	-
		31.00000	-7.00000	19.50000	0.0	4.4606	2.4045	-	-
		32.00000	-7.00000	19.50000	0.0	4.3839	2.3800	-	-
		33.00000	-7.00000	19.50000	0.0	4.3157	2.3646	-	-
		34.00000	-7.00000	19.50000	0.0	2.8937	1.5836	-	-
		35.00000	-7.00000	19.50000	0.0	2.5103	1.3833	-	-
		36.00000	-7.00000	19.50000	0.0	2.1215	1.1651	-	-
		37.00000	-7.00000	19.50000	0.0	1.7659	0.94718	-	-
		38.00000	-7.00000	19.50000	0.0	1.4623	0.74778	-	-
		39.00000	-7.00000	19.50000	0.0	1.1923	0.57062	-	-
		40.00000	-7.00000	19.50000	0.0	0.95835	0.42034	-	-
		41.00000	-7.00000	19.50000	0.0	0.75942	0.29822	-	-
		42.00000	-7.00000	19.50000	0.0	0.63236	0.21677	-	-
		43.00000	-7.00000	19.50000	0.0	0.52064	0.15173	-	-
		44.00000	-7.00000	19.50000	0.0	0.42234	0.10205	-	-
		45.00000	-7.00000	19.50000	0.0	0.33564	0.066025	-	-
		46.00000	-7.00000	19.50000	0.0	0.25892	0.041529	-	-
		47.00000	-7.00000	19.50000	0.0	0.19075	0.026060	-	-
		48.00000	-7.00000	19.50000	0.0	0.12992	0.016849	-	-
		49.00000	-7.00000	19.50000	0.0	0.075418	0.010915	-	-
		50.00000	-7.00000	19.50000	0.0	0.026374	0.0051123	-	-
		51.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-7.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	-6.00000	19.50000	0.16352	0.039056	0.033915	-	-
		-15.00000	-6.00000	19.50000	0.32269	0.083777	0.054869	-	-
		-14.00000	-6.00000	19.50000	0.47078	0.13380	0.078941	-	-
		-13.00000	-6.00000	19.50000	0.60585	0.19006	0.19177	-	-
		-12.00000	-6.00000	19.50000	0.72546	0.25367	0.34259	-	-
		-11.00000	-6.00000	19.50000	0.82660	0.32604	0.50613	-	-
		-10.00000	-6.00000	19.50000	0.90557	0.40886	0.67916	-	-
		-9.00000	-6.00000	19.50000	1.0124	0.50418	0.85456	-	-
		-8.00000	-6.00000	19.50000	1.1208	0.61450	1.0216	-	-
		-7.00000	-6.00000	19.50000	1.1666	0.74270	1.1667	-	-
		-6.00000	-6.00000	19.50000	1.1376	0.89200	1.2740	-	-
		-5.00000	-6.00000	19.50000	1.1189	1.1405	1.4414	-	-
		-4.00000	-6.00000	19.50000	1.0336	1.4383	1.5875	-	-
		-3.00000	-6.00000	19.50000	0.87383	1.7931	1.7050	-	-
		-2.00000	-6.00000	19.50000	0.63826	2.2507	1.7946	-	-
		-1.00000	-6.00000	19.50000	0.33809	2.7289	1.8424	-	-
		0.00000	-6.00000	19.50000	0.0	3.1825	1.8468	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		1.00000	-6.00000	19.50000	0.0	4.7500	2.7564	-	-
		2.00000	-6.00000	19.50000	0.0	4.7500	2.7564	-	-
		3.00000	-6.00000	19.50000	0.0	4.7500	2.7564	-	-
		4.00000	-6.00000	19.50000	0.0	4.7891	2.7629	-	-
		5.00000	-6.00000	19.50000	0.0	4.8338	2.7677	-	-
		6.00000	-6.00000	19.50000	0.0	4.8838	2.7738	-	-
		7.00000	-6.00000	19.50000	0.0	4.9401	2.7843	-	-
		8.00000	-6.00000	19.50000	0.0	5.0037	2.8018	-	-
		9.00000	-6.00000	19.50000	0.0	5.0760	2.8292	-	-
		10.00000	-6.00000	19.50000	0.0	5.1589	2.8687	-	-
		11.00000	-6.00000	19.50000	0.0	5.2542	2.9228	-	-
		12.00000	-6.00000	19.50000	0.0	5.3645	2.9935	-	-
		13.00000	-6.00000	19.50000	0.0	5.4927	3.0821	-	-
		14.00000	-6.00000	19.50000	0.0	5.6420	3.1898	-	-
		15.00000	-6.00000	19.50000	0.0	5.8905	3.3560	-	-
		16.00000	-6.00000	19.50000	0.0	6.1885	3.5577	-	-
		17.00000	-6.00000	19.50000	0.0	6.5431	3.7933	-	-
		18.00000	-6.00000	19.50000	0.0	7.0007	4.0626	-	-
		19.00000	-6.00000	19.50000	0.0	7.4789	4.3403	-	-
		20.00000	-6.00000	19.50000	0.0	6.3650	3.6935	-	-
		21.00000	-6.00000	19.50000	0.0	7.4789	4.3403	-	-
		22.00000	-6.00000	19.50000	0.0	7.0007	4.0626	-	-
		23.00000	-6.00000	19.50000	0.0	6.5431	3.7933	-	-
		24.00000	-6.00000	19.50000	0.0	6.1885	3.5577	-	-
		25.00000	-6.00000	19.50000	0.0	5.8905	3.3560	-	-
		26.00000	-6.00000	19.50000	0.0	5.6420	3.1898	-	-
		27.00000	-6.00000	19.50000	0.0	5.4927	3.0821	-	-
		28.00000	-6.00000	19.50000	0.0	5.3645	2.9935	-	-
		29.00000	-6.00000	19.50000	0.0	5.2542	2.9228	-	-
		30.00000	-6.00000	19.50000	0.0	5.1589	2.8687	-	-
		31.00000	-6.00000	19.50000	0.0	5.0760	2.8292	-	-
		32.00000	-6.00000	19.50000	0.0	5.0037	2.8018	-	-
		33.00000	-6.00000	19.50000	0.0	4.9401	2.7843	-	-
		34.00000	-6.00000	19.50000	0.0	3.3163	1.8642	-	-
		35.00000	-6.00000	19.50000	0.0	2.8127	1.5952	-	-
		36.00000	-6.00000	19.50000	0.0	2.2898	1.3127	-	-
		37.00000	-6.00000	19.50000	0.0	1.7931	1.0369	-	-
		38.00000	-6.00000	19.50000	0.0	1.4385	0.80128	-	-
		39.00000	-6.00000	19.50000	0.0	1.1405	0.59964	-	-
		40.00000	-6.00000	19.50000	0.0	0.89200	0.43343	-	-
		41.00000	-6.00000	19.50000	0.0	0.74270	0.32576	-	-
		42.00000	-6.00000	19.50000	0.0	0.61450	0.23709	-	-
		43.00000	-6.00000	19.50000	0.0	0.50418	0.16647	-	-
		44.00000	-6.00000	19.50000	0.0	0.40886	0.11235	-	-
		45.00000	-6.00000	19.50000	0.0	0.32604	0.072779	-	-
		46.00000	-6.00000	19.50000	0.0	0.25267	0.045469	-	-
		47.00000	-6.00000	19.50000	0.0	0.19006	0.027923	-	-
		48.00000	-6.00000	19.50000	0.0	0.13380	0.017470	-	-
		49.00000	-6.00000	19.50000	0.0	0.083777	0.011309	-	-
		50.00000	-6.00000	19.50000	0.0	0.039056	0.0065385	-	-
		51.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-6.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-5.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-5.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-5.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-5.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-5.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-5.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-5.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-5.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-5.00000	19.50000	0.054279	0.0095590	0.014473	-	-
		-16.00000	-5.00000	19.50000	0.23565	0.044721	0.042659	-	-
		-15.00000	-5.00000	19.50000	0.40867	0.084056	0.064339	-	-
		-14.00000	-5.00000	19.50000	0.57182	0.12832	0.11073	-	-
		-13.00000	-5.00000	19.50000	0.72319	0.17845	0.27037	-	-
		-12.00000	-5.00000	19.50000	0.86040	0.23562	0.44711	-	-
		-11.00000	-5.00000	19.50000	0.98042	0.30332	0.64127	-	-
		-10.00000	-5.00000	19.50000	1.0902	0.37743	0.84867	-	-
		-9.00000	-5.00000	19.50000	1.2862	0.46635	1.0608	-	-
		-8.00000	-5.00000	19.50000	1.4299	0.57116	1.2650	-	-
		-7.00000	-5.00000	19.50000	1.5100	0.69577	1.4447	-	-
		-6.00000	-5.00000	19.50000	1.5102	0.84502	1.5804	-	-
		-5.00000	-5.00000	19.50000	1.4081	1.02466	1.6506	-	-
		-4.00000	-5.00000	19.50000	1.3247	1.3803	1.8146	-	-
		-3.00000	-5.00000	19.50000	1.1426	1.8554	1.9480	-	-
		-2.00000	-5.00000	19.50000	0.85071	2.4191	2.0432	-	-
		-1.00000	-5.00000	19.50000	0.45708	3.0413	2.0972	-	-
		0.00000	-5.00000	19.50000	0.0	3.6571	2.1056	-	-
		1.00000	-5.00000	19.50000	0.0	5.4583	3.1426	-	-
		2.00000	-5.00000	19.50000	0.0	5.4583	3.1426	-	-
		3.00000	-5.00000	19.50000	0.0	5.4679	3.1448	-	-
		4.00000	-5.00000	19.50000	0.0	5.5031	3.1494	-	-
		5.00000	-5.00000	19.50000	0.0	5.5424	3.1536	-	-
		6.00000	-5.00000	19.50000	0.0	5.5867	3.1599	-	-
		7.00000	-5.00000	19.50000	0.0	5.6368	3.1710	-	-
		8.00000	-5.00000	19.50000	0.0	5.6940	3.1894	-	-
		9.00000	-5.00000	19.50000	0.0	5.7597	3.2176	-	-
		10.00000	-5.00000	19.50000	0.0	5.8358	3.2581	-	-
		11.00000	-5.00000	19.50000	0.0	5.9247	3.3131	-	-
		12.00000	-5.00000	19.50000	0.0	6.0295	3.3850	-	-
		13.00000	-5.00000	19.50000	0.0	6.1541	3.4756	-	-
		14.00000	-5.00000	19.50000	0.0	6.3034	3.5869	-	-
		15.00000	-5.00000	19.50000	0.0	6.4829	3.7201	-	-
		16.00000	-5.00000	19.50000	0.0	6.8386	3.9434	-	-
		17.00000	-5.00000	19.50000	0.0	7.3137	4.2185	-	-
		18.00000	-5.00000	19.50000	0.0	7.8775	4.5407	-	-
		19.00000	-5.00000	19.50000	0.0	8.4996	4.8954	-	-
		20.00000	-5.00000	19.50000	0.0	7.3144	4.2111	-	-
		21.00000	-5.00000	19.50000	0.0	8.4996	4.8954	-	-
		22.00000	-5.00000	19.50000	0.0	7.8775	4.5407	-	-
		23.00000	-5.00000	19.50000	0.0	7.3137	4.2185	-	-
		24.00000	-5.00000	19.50000	0.0	6.8386	3.9434	-	-
		25.00000	-5.00000	19.50000	0.0	6.4829	3.7201	-	-
		26.00000	-5.00000	19.50000	0.0	6.3034	3.5869	-	-
		27.00000	-5.00000	19.50000	0.0	6.1541	3.4756	-	-
		28.00000	-5.00000	19.50000	0.0	6.0295	3.3850	-	-
		29.00000	-5.00000	19.50000	0.0	5.9247	3.3131	-	-
		30.00000	-5.00000	19.50000	0.0	5.8358	3.2581	-	-
		31.00000	-5.00000	19.50000	0.0	5.7597	3.2176	-	-
		32.00000	-5.00000	19.50000	0.0	5.6940	3.1894	-	-
		33.00000	-5.00000	19.50000	0.0	5.6368	3.1710	-	-
		34.00000	-5.00000	19.50000	0.0	3.7854	2.1229	-	-
		35.00000	-5.00000	19.50000	0.0	3.1254	1.7638	-	-
		36.00000	-5.00000	19.50000	0.0	2.4639	1.4049	-	-
		37.00000	-5.00000	19.50000	0.0	1.8650	1.0780	-	-
		38.00000	-5.00000	19.50000	0.0	1.3803	0.80075	-	-
		39.00000	-5.00000	19.50000	0.0	1.0246	0.57751	-	-
		40.00000	-5.00000	19.50000	0.0	0.84502	0.44427	-	-
		41.00000	-5.00000	19.50000	0.0	0.69577	0.33300	-	-
		42.00000	-5.00000	19.50000	0.0	0.57116	0.24233	-	-
		43.00000	-5.00000	19.50000	0.0	0.46635	0.17049	-	-
		44.00000	-5.00000	19.50000	0.0	0.37743	0.11546	-	-
		45.00000	-5.00000	19.50000	0.0	0.30332	0.075005	-	-
		46.00000	-5.00000	19.50000	0.0	0.23562	0.046795	-	-
		47.00000	-5.00000	19.50000	0.0	0.17845	0.028396	-	-
		48.00000	-5.00000	19.50000	0.0	0.12832	0.017308	-	-
		49.00000	-5.00000	19.50000	0.0	0.084056	0.010976	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		50.00000	-5.00000	19.50000	0.0	0.044721	0.0068043	-	-
		51.00000	-5.00000	19.50000	0.0	0.0095590	0.0021672	-	-
		52.00000	-5.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-5.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-5.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-5.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	-4.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-4.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-4.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-4.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-4.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-4.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-4.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-4.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-4.00000	19.50000	0.10978	0.014778	0.024144	-	-
		-16.00000	-4.00000	19.50000	0.30472	0.044085	0.049843	-	-
		-15.00000	-4.00000	19.50000	0.49266	0.077016	0.073755	-	-
		-14.00000	-4.00000	19.50000	0.67227	0.11427	0.16806	-	-
		-13.00000	-4.00000	19.50000	0.84184	0.15672	0.34967	-	-
		-12.00000	-4.00000	19.50000	0.99916	0.20551	0.55373	-	-
		-11.00000	-4.00000	19.50000	1.1414	0.26208	0.78021	-	-
		-10.00000	-4.00000	19.50000	1.3440	0.32837	1.0243	-	-
		-9.00000	-4.00000	19.50000	1.5841	0.40692	1.2765	-	-
		-8.00000	-4.00000	19.50000	1.7770	0.50118	1.5225	-	-
		-7.00000	-4.00000	19.50000	1.9101	0.61583	1.7433	-	-
		-6.00000	-4.00000	19.50000	1.9636	0.75725	1.9154	-	-
		-5.00000	-4.00000	19.50000	1.9069	0.95886	2.0157	-	-
		-4.00000	-4.00000	19.50000	1.6975	1.2483	2.0160	-	-
		-3.00000	-4.00000	19.50000	1.5081	1.7788	2.1575	-	-
		-2.00000	-4.00000	19.50000	1.1573	2.4616	2.2634	-	-
		-1.00000	-4.00000	19.50000	0.63695	3.2768	2.3310	-	-
		0.00000	-4.00000	19.50000	0.0	4.1317	2.3518	-	-
		1.00000	-4.00000	19.50000	0.0	6.1667	3.5101	-	-
		2.00000	-4.00000	19.50000	0.0	6.1667	3.5101	-	-
		3.00000	-4.00000	19.50000	0.0	6.1814	3.5130	-	-
		4.00000	-4.00000	19.50000	0.0	6.2108	3.5164	-	-
		5.00000	-4.00000	19.50000	0.0	6.2437	3.5201	-	-
		6.00000	-4.00000	19.50000	0.0	6.2809	3.5262	-	-
		7.00000	-4.00000	19.50000	0.0	6.3234	3.5370	-	-
		8.00000	-4.00000	19.50000	0.0	6.3722	3.5547	-	-
		9.00000	-4.00000	19.50000	0.0	6.4287	3.5814	-	-
		10.00000	-4.00000	19.50000	0.0	6.4950	3.6196	-	-
		11.00000	-4.00000	19.50000	0.0	6.5736	3.6713	-	-
		12.00000	-4.00000	19.50000	0.0	6.6678	3.7390	-	-
		13.00000	-4.00000	19.50000	0.0	6.7825	3.8251	-	-
		14.00000	-4.00000	19.50000	0.0	6.9239	3.9319	-	-
		15.00000	-4.00000	19.50000	0.0	7.1255	4.0664	-	-
		16.00000	-4.00000	19.50000	0.0	7.4149	4.2331	-	-
		17.00000	-4.00000	19.50000	0.0	7.9454	4.5343	-	-
		18.00000	-4.00000	19.50000	0.0	8.6282	4.9192	-	-
		19.00000	-4.00000	19.50000	0.0	9.4435	5.3782	-	-
		20.00000	-4.00000	19.50000	0.0	8.2633	4.7036	-	-
		21.00000	-4.00000	19.50000	0.0	9.4435	5.3782	-	-
		22.00000	-4.00000	19.50000	0.0	8.6282	4.9192	-	-
		23.00000	-4.00000	19.50000	0.0	7.9454	4.5343	-	-
		24.00000	-4.00000	19.50000	0.0	7.4149	4.2331	-	-
		25.00000	-4.00000	19.50000	0.0	7.1255	4.0664	-	-
		26.00000	-4.00000	19.50000	0.0	6.9239	3.9319	-	-
		27.00000	-4.00000	19.50000	0.0	6.7825	3.8251	-	-
		28.00000	-4.00000	19.50000	0.0	6.6678	3.7390	-	-
		29.00000	-4.00000	19.50000	0.0	6.5736	3.6713	-	-
		30.00000	-4.00000	19.50000	0.0	6.4950	3.6196	-	-
		31.00000	-4.00000	19.50000	0.0	6.4287	3.5814	-	-
		32.00000	-4.00000	19.50000	0.0	6.3722	3.5547	-	-
		33.00000	-4.00000	19.50000	0.0	6.3234	3.5370	-	-
		34.00000	-4.00000	19.50000	0.0	6.2437	3.5201	-	-
		35.00000	-4.00000	19.50000	0.0	6.1814	3.5130	-	-
		36.00000	-4.00000	19.50000	0.0	6.1667	3.5101	-	-
		37.00000	-4.00000	19.50000	0.0	6.1667	3.5101	-	-
		38.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		39.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		40.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		41.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		42.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		43.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		44.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		45.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		46.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		47.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		48.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		49.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		50.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		51.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		52.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		53.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		54.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		55.00000	-4.00000	19.50000	0.0	6.1583	3.5077	-	-
		-25.00000	-3.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	-3.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	-3.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	-3.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	-3.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	-3.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	-3.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	-3.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	-3.00000	19.50000	0.15943	0.015373	0.031130	-	-
		-16.00000	-3.00000	19.50000	0.36847	0.038080	0.055881	-	-
		-15.00000	-3.00000	19.50000	0.57212	0.063688	0.082741	-	-
		-14.00000	-3.00000	19.50000	0.76927	0.092781	0.22167	-	-
		-13.00000	-3.00000	19.50000	0.95854	0.12611	0.42547	-	-
		-12.00000	-3.00000	19.50000	1.1381	0.16465	0.65701	-	-
		-11.00000	-3.00000	19.50000	1.3055	0.20970	0.91621	-	-
		-10.00000	-3.00000	19.50000	1.6042	0.26300	1.1981	-	-
		-9.00000	-3.00000	19.50000	1.8985	0.32696	1.4926	-	-
		-8.00000	-3.00000	19.50000	2.1549	0.40495	1.7847	-	-
		-7.00000	-3.00000	19.50000	2.3619	0.50187	2.0535	-	-
		-6.00000	-3.00000	19.50000	2.4990	0.62699	2.2732	-	-
		-5.00000	-3.00000	19.50000	2.5308	0.83770	2.4174	-	-
		-4.00000	-3.00000	19.50000	2.3993	1.1180	2.4468	-	-
		-3.00000	-3.00000	19.50000	2.0138	1.4987	2.3277	-	-
		-2.00000	-3.00000	19.50000	1.6226	2.2292	2.4431	-	-
		-1.00000	-3.00000	19.50000	0.93346	3.3661	2.5299	-	-
		0.00000	-3.00000	19.50000	0.0	4.6062	2.5789	-	-
		1.00000	-3.00000	19.50000	0.0	6.8750	3.8491	-	-
		2.00000	-3.00000	19.50000	0.0	6.8750	3.8491	-	-
		3.00000	-3.00000	19.50000	0.0	6.8904	3.8518	-	-
		4.00000	-3.00000	19.50000	0.0	6.9131	3.8543	-	-
		5.00000	-3.00000	19.50000	0.0	6.9387	3.8574	-	-
		6.00000	-3.00000	19.50000	0.0	6.9678	3.8627	-	-
		7.00000	-3.00000	19.50000	0.0	7.0011	3.8721	-	-
		8.00000	-3.00000	19.50000	0.0	7.0397	3.8873	-	-
		9.00000	-3.00000	19.50000	0.0	7.0847	3.9102	-	-
		10.00000	-3.00000	19.50000	0.0	7.1380	3.9426	-	-
		11.00000	-3.00000	19.50000	0.0	7.2020	3.9866	-	-
		12.00000	-3.00000	19.50000	0.0	7.2800	4.0444	-	-
		13.00000	-3.00000	19.50000	0.0	7.3769	4.1189	-	-
		14.00000	-3.00000	19.50000	0.0	7.5020	4.2117	-	-
		15.00000	-3.00000	19.50000	0.0	7.7127	4.3348	-	-
		16.00000	-3.00000	19.50000	0.0	7.9930	4.4928	-	-
		17.00000	-3.00000	19.50000	0.0	8.3737	4.7047	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.	Coordinates			Displacements			Angle of Line			
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		18.00000	-3.00000	19.50000	0.0	9.1670	5.1465	-	-	-
		19.00000	-3.00000	19.50000	0.0	10.241	5.7400	-	-	-
		20.0000	-3.0000	19.50000	0.0	9.2125	5.1578	-	-	-
		21.00000	-3.00000	19.50000	0.0	10.241	5.7400	-	-	-
		22.00000	-3.00000	19.50000	0.0	9.1670	5.1465	-	-	-
		23.00000	-3.00000	19.50000	0.0	8.3737	4.7047	-	-	-
		24.00000	-3.00000	19.50000	0.0	7.9930	4.4928	-	-	-
		25.00000	-3.00000	19.50000	0.0	7.7127	4.3348	-	-	-
		26.00000	-3.00000	19.50000	0.0	7.5020	4.2117	-	-	-
		27.00000	-3.00000	19.50000	0.0	7.3769	4.1183	-	-	-
		28.00000	-3.00000	19.50000	0.0	7.2800	4.0444	-	-	-
		29.00000	-3.00000	19.50000	0.0	7.2020	3.9866	-	-	-
		30.00000	-3.00000	19.50000	0.0	7.1380	3.9426	-	-	-
		31.00000	-3.00000	19.50000	0.0	7.0847	3.9102	-	-	-
		32.00000	-3.00000	19.50000	0.0	7.0397	3.8873	-	-	-
		33.00000	-3.00000	19.50000	0.0	7.0011	3.8721	-	-	-
		34.00000	-3.00000	19.50000	0.0	6.9900	2.5925	-	-	-
		35.00000	-3.00000	19.50000	0.0	3.4298	1.8993	-	-	-
		36.00000	-3.00000	19.50000	0.0	2.3300	1.3027	-	-	-
		37.00000	-3.00000	19.50000	0.0	1.5141	0.85838	-	-	-
		38.00000	-3.00000	19.50000	0.0	1.1180	0.64371	-	-	-
		39.00000	-3.00000	19.50000	0.0	0.83770	0.48575	-	-	-
		40.00000	-3.00000	19.50000	0.0	0.62699	0.36259	-	-	-
		41.00000	-3.00000	19.50000	0.0	0.50187	0.26919	-	-	-
		42.00000	-3.00000	19.50000	0.0	0.40495	0.19529	-	-	-
		43.00000	-3.00000	19.50000	0.0	0.32696	0.13756	-	-	-
		44.00000	-3.00000	19.50000	0.0	0.26300	0.093553	-	-	-
		45.00000	-3.00000	19.50000	0.0	0.20970	0.061114	-	-	-
		46.00000	-3.00000	19.50000	0.0	0.16465	0.038236	-	-	-
		47.00000	-3.00000	19.50000	0.0	0.12611	0.023019	-	-	-
		48.00000	-3.00000	19.50000	0.0	0.092781	0.013632	-	-	-
		49.00000	-3.00000	19.50000	0.0	0.063688	0.0082880	-	-	-
		50.00000	-3.00000	19.50000	0.0	0.038080	0.0052341	-	-	-
		51.00000	-3.00000	19.50000	0.0	0.015373	0.0027379	-	-	-
		52.00000	-3.00000	19.50000	0.0	0.0	0.0	-	-	-
		53.00000	-3.00000	19.50000	0.0	0.0	0.0	-	-	-
		54.00000	-3.00000	19.50000	0.0	0.0	0.0	-	-	-
		55.00000	-3.00000	19.50000	0.0	0.0	0.0	-	-	-
		-25.00000	-2.00000	19.50000	0.0	0.0	0.0	-	-	-
		-24.00000	-2.00000	19.50000	0.0	0.0	0.0	-	-	-
		-23.00000	-2.00000	19.50000	0.0	0.0	0.0	-	-	-
		-22.00000	-2.00000	19.50000	0.0	0.0	0.0	-	-	-
		-21.00000	-2.00000	19.50000	0.0	0.0	0.0	-	-	-
		-20.00000	-2.00000	19.50000	0.0	0.0	0.0	-	-	-
		-19.00000	-2.00000	19.50000	0.0	0.0	0.0	-	-	-
		-18.00000	-2.00000	19.50000	0.0	0.0	0.0	-	-	-
		-17.00000	-2.00000	19.50000	0.20106	0.012340	0.036077	-	-	-
		-16.00000	-2.00000	19.50000	0.42445	0.027839	0.060809	-	-	-
		-15.00000	-2.00000	19.50000	0.64418	0.045366	0.090623	-	-	-
		-14.00000	-2.00000	19.50000	0.85951	0.065343	0.26807	-	-	-
		-13.00000	-2.00000	19.50000	1.0694	0.088319	0.49305	-	-	-
		-12.00000	-2.00000	19.50000	1.2727	0.11502	0.75083	-	-	-
		-11.00000	-2.00000	19.50000	1.4821	0.14641	1.0417	-	-	-
		-10.00000	-2.00000	19.50000	1.8602	0.18383	1.3608	-	-	-
		-9.00000	-2.00000	19.50000	2.2167	0.22918	1.6985	-	-	-
		-8.00000	-2.00000	19.50000	2.5492	0.28522	2.0395	-	-	-
		-7.00000	-2.00000	19.50000	2.8500	0.35611	2.3630	-	-	-
		-6.00000	-2.00000	19.50000	3.1032	0.46293	2.6436	-	-	-
		-5.00000	-2.00000	19.50000	3.2767	0.62806	2.8478	-	-	-
		-4.00000	-2.00000	19.50000	3.3095	0.86074	2.9359	-	-	-
		-3.00000	-2.00000	19.50000	3.0824	1.2065	2.8593	-	-	-
		-2.00000	-2.00000	19.50000	2.3651	1.7491	2.5503	-	-	-
		-1.00000	-2.00000	19.50000	1.4903	3.1300	2.6494	-	-	-
		0.00000	-2.00000	19.50000	0.0	5.0808	2.7538	-	-	-
		1.00000	-2.00000	19.50000	0.0	7.5833	4.1102	-	-	-
		2.00000	-2.00000	19.50000	0.0	7.5833	4.1102	-	-	-
		3.00000	-2.00000	19.50000	0.0	7.5957	4.1122	-	-	-
		4.00000	-2.00000	19.50000	0.0	7.6112	4.1139	-	-	-
		5.00000	-2.00000	19.50000	0.0	7.6287	4.1161	-	-	-
		6.00000	-2.00000	19.50000	0.0	7.6487	4.1201	-	-	-
		7.00000	-2.00000	19.50000	0.0	7.6717	4.1270	-	-	-
		8.00000	-2.00000	19.50000	0.0	7.6983	4.1382	-	-	-
		9.00000	-2.00000	19.50000	0.0	7.7297	4.1549	-	-	-
		10.00000	-2.00000	19.50000	0.0	7.7672	4.1786	-	-	-
		11.00000	-2.00000	19.50000	0.0	7.8125	4.2107	-	-	-
		12.00000	-2.00000	19.50000	0.0	7.8686	4.2529	-	-	-
		13.00000	-2.00000	19.50000	0.0	7.9394	4.3073	-	-	-
		14.00000	-2.00000	19.50000	0.0	8.0463	4.3788	-	-	-
		15.00000	-2.00000	19.50000	0.0	8.2114	4.4731	-	-	-
		16.00000	-2.00000	19.50000	0.0	8.4441	4.6029	-	-	-
		17.00000	-2.00000	19.50000	0.0	8.7898	4.7931	-	-	-
		18.00000	-2.00000	19.50000	0.0	9.3325	5.0855	-	-	-
		19.00000	-2.00000	19.50000	0.0	10.713	5.8235	-	-	-
		20.00000	-2.00000	19.50000	0.0	10.162	5.5076	-	-	-
		21.00000	-2.00000	19.50000	0.0	10.713	5.8235	-	-	-
		22.00000	-2.00000	19.50000	0.0	9.3325	5.0855	-	-	-
		23.00000	-2.00000	19.50000	0.0	8.7898	4.7931	-	-	-
		24.00000	-2.00000	19.50000	0.0	8.4441	4.6029	-	-	-
		25.00000	-2.00000	19.50000	0.0	8.2114	4.4731	-	-	-
		26.00000	-2.00000	19.50000	0.0	8.0463	4.3788	-	-	-
		27.00000	-2.00000	19.50000	0.0	7.9394	4.3073	-	-	-
		28.00000	-2.00000	19.50000	0.0	7.8686	4.2529	-	-	-
		29.00000	-2.00000	19.50000	0.0	7.8125	4.2107	-	-	-
		30.00000	-2.00000	19.50000	0.0	7.7672	4.1786	-	-	-
		31.00000	-2.00000	19.50000	0.0	7.7297	4.1549	-	-	-
		32.00000	-2.00000	19.50000	0.0	7.6983	4.1382	-	-	-
		33.00000	-2.00000	19.50000	0.0	7.6717	4.1270	-	-	-
		34.00000	-2.00000	19.50000	0.0	5.1462	2.7637	-	-	-
		35.00000	-2.00000	19.50000	0.0	3.1754	1.7194	-	-	-
		36.00000	-2.00000	19.50000	0.0	1.7770	0.97908	-	-	-
		37.00000	-2.00000	19.50000	0.0	1.2180	0.6509	-	-	-
		38.00000	-2.00000	19.50000	0.0	0.86074	0.49273	-	-	-
		39.00000	-2.00000	19.50000	0.0	0.62806	0.36297	-	-	-
		40.00000	-2.00000	19.50000						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-14.00000	-1.00000	19.50000	0.93935	0.033743	0.30363	-	-
		-13.00000	-1.00000	19.50000	1.1702	0.045468	0.54757	-	-
		-12.00000	-1.00000	19.50000	1.3977	0.059133	0.82890	-	-
		-11.00000	-1.00000	19.50000	1.6664	0.075261	1.1485	-	-
		-10.00000	-1.00000	19.50000	2.0987	0.094583	1.5024	-	-
		-9.00000	-1.00000	19.50000	2.5218	0.11815	1.8817	-	-
		-8.00000	-1.00000	19.50000	2.9379	0.14751	2.2723	-	-
		-7.00000	-1.00000	19.50000	3.3463	0.18511	2.6544	-	-
		-6.00000	-1.00000	19.50000	3.7411	0.24662	3.0042	-	-
		-5.00000	-1.00000	19.50000	4.1060	0.33856	3.2890	-	-
		-4.00000	-1.00000	19.50000	4.4026	0.47407	3.4703	-	-
		-3.00000	-1.00000	19.50000	4.5384	0.69234	3.4955	-	-
		-2.00000	-1.00000	19.50000	4.2620	1.0945	3.2759	-	-
		-1.00000	-1.00000	19.50000	2.7593	1.9996	2.6077	-	-
		0.00000	-1.00000	19.50000	0.0	5.5554	2.8171	-	-
		1.00000	-1.00000	19.50000	0.0	8.2917	4.2046	-	-
		2.00000	-1.00000	19.50000	0.0	8.2917	4.2046	-	-
		3.00000	-1.00000	19.50000	0.0	8.2985	4.2057	-	-
		4.00000	-1.00000	19.50000	0.0	8.3063	4.2065	-	-
		5.00000	-1.00000	19.50000	0.0	8.3152	4.2077	-	-
		6.00000	-1.00000	19.50000	0.0	8.3254	4.2098	-	-
		7.00000	-1.00000	19.50000	0.0	8.3371	4.2135	-	-
		8.00000	-1.00000	19.50000	0.0	8.3508	4.2194	-	-
		9.00000	-1.00000	19.50000	0.0	8.3669	4.2283	-	-
		10.00000	-1.00000	19.50000	0.0	8.3862	4.2407	-	-
		11.00000	-1.00000	19.50000	0.0	8.4098	4.2577	-	-
		12.00000	-1.00000	19.50000	0.0	8.4392	4.2800	-	-
		13.00000	-1.00000	19.50000	0.0	8.4768	4.3089	-	-
		14.00000	-1.00000	19.50000	0.0	8.5383	4.3477	-	-
		15.00000	-1.00000	19.50000	0.0	8.6302	4.3997	-	-
		16.00000	-1.00000	19.50000	0.0	8.7657	4.4748	-	-
		17.00000	-1.00000	19.50000	0.0	8.9840	4.5935	-	-
		18.00000	-1.00000	19.50000	0.0	9.3862	4.8037	-	-
		19.00000	-1.00000	19.50000	0.0	10.291	5.2528	-	-
		20.00000	-1.00000	19.50000	0.0	11.111	5.6341	-	-
		21.00000	-1.00000	19.50000	0.0	10.291	5.2528	-	-
		22.00000	-1.00000	19.50000	0.0	9.3862	4.8037	-	-
		23.00000	-1.00000	19.50000	0.0	8.9840	4.5935	-	-
		24.00000	-1.00000	19.50000	0.0	8.7657	4.4748	-	-
		25.00000	-1.00000	19.50000	0.0	8.6302	4.3997	-	-
		26.00000	-1.00000	19.50000	0.0	8.5383	4.3477	-	-
		27.00000	-1.00000	19.50000	0.0	8.4768	4.3089	-	-
		28.00000	-1.00000	19.50000	0.0	8.4392	4.2800	-	-
		29.00000	-1.00000	19.50000	0.0	8.4098	4.2577	-	-
		30.00000	-1.00000	19.50000	0.0	8.3862	4.2407	-	-
		31.00000	-1.00000	19.50000	0.0	8.3669	4.2283	-	-
		32.00000	-1.00000	19.50000	0.0	8.3508	4.2194	-	-
		33.00000	-1.00000	19.50000	0.0	8.3371	4.2135	-	-
		34.00000	-1.00000	19.50000	0.0	5.5892	2.8223	-	-
		35.00000	-1.00000	19.50000	0.0	2.0231	1.0514	-	-
		36.00000	-1.00000	19.50000	0.0	1.10192	0.60108	-	-
		37.00000	-1.00000	19.50000	0.0	0.69915	0.39005	-	-
		38.00000	-1.00000	19.50000	0.0	0.47407	0.27026	-	-
		39.00000	-1.00000	19.50000	0.0	0.33856	0.19512	-	-
		40.00000	-1.00000	19.50000	0.0	0.24662	0.14314	-	-
		41.00000	-1.00000	19.50000	0.0	0.18511	0.10434	-	-
		42.00000	-1.00000	19.50000	0.0	0.14751	0.075436	-	-
		43.00000	-1.00000	19.50000	0.0	0.11815	0.053101	-	-
		44.00000	-1.00000	19.50000	0.0	0.094583	0.036169	-	-
		45.00000	-1.00000	19.50000	0.0	0.075261	0.023696	-	-
		46.00000	-1.00000	19.50000	0.0	0.059133	0.014866	-	-
		47.00000	-1.00000	19.50000	0.0	0.045468	0.0089441	-	-
		48.00000	-1.00000	19.50000	0.0	0.033743	0.0052465	-	-
		49.00000	-1.00000	19.50000	0.0	0.023573	0.0031239	-	-
		50.00000	-1.00000	19.50000	0.0	0.014669	0.0019508	-	-
		51.00000	-1.00000	19.50000	0.0	0.0068074	0.001182	-	-
		52.00000	-1.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	-1.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	-1.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	-1.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	0.00000	19.50000	0.0	0.0	0.0025890	-	-
		-17.00000	0.00000	19.50000	0.25125	0.0	0.040894	-	-
		-16.00000	0.00000	19.50000	0.50250	0.0	0.066612	-	-
		-15.00000	0.00000	19.50000	0.75375	0.0	0.111020	-	-
		-14.00000	0.00000	19.50000	1.0050	0.0	0.32495	-	-
		-13.00000	0.00000	19.50000	1.2562	0.0	0.58449	-	-
		-12.00000	0.00000	19.50000	1.5075	0.0	0.88526	-	-
		-11.00000	0.00000	19.50000	1.8184	0.0	1.2291	-	-
		-10.00000	0.00000	19.50000	2.3044	0.0	1.6130	-	-
		-9.00000	0.00000	19.50000	2.7934	0.0	2.0295	-	-
		-8.00000	0.00000	19.50000	3.2932	0.0	2.4664	-	-
		-7.00000	0.00000	19.50000	3.8113	0.0	2.9068	-	-
		-6.00000	0.00000	19.50000	4.3553	0.0	3.3291	-	-
		-5.00000	0.00000	19.50000	4.9328	0.0	3.7071	-	-
		-4.00000	0.00000	19.50000	5.5513	0.0	4.0099	-	-
		-3.00000	0.00000	19.50000	6.2185	0.0	4.2020	-	-
		-2.00000	0.00000	19.50000	6.9419	0.0	4.2431	-	-
		-1.00000	0.00000	19.50000	7.7292	0.0	4.0883	-	-
		0.00000	0.00000	19.50000	4.2939	3.0150	3.1854	-	-
		1.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		2.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		3.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		4.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		5.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		6.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		7.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		8.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		9.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		10.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		11.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		12.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		13.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		14.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		15.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		16.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		17.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		18.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		19.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		20.00000	0.00000	19.50000	0.0	6.0390	2.6827	-	-
		21.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		22.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		23.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		24.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		25.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		26.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		27.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		28.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		29.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		30.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		31.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		32.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		33.00000	0.00000	19.50000	0.0	9.0000	4.0040	-	-
		34.00000	0.00000	19.50000	0.0	3.0150	1.3413	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		35.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	0.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	1.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	1.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	1.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	1.00000	19.50000	1.12500	0.0	0.14956	-	-
		-14.00000	1.00000	19.50000	1.50000	0.0	0.48501	-	-
		-13.00000	1.00000	19.50000	1.87500	0.0	0.87237	-	-
		-12.00000	1.00000	19.50000	2.25000	0.0	1.3213	-	-
		-11.00000	1.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	1.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	1.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	1.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	1.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	1.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	1.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	1.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	1.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	1.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	1.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	1.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		2.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		3.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		4.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		5.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		6.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		7.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		8.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		9.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		10.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		11.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		12.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		13.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		14.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		15.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		16.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		17.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		18.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		19.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		20.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		22.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		23.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		24.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		25.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		26.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		27.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		28.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		29.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		30.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		31.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		32.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		33.00000	1.00000	19.50000			Point lies within an excavation.	-	-
		34.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	1.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	2.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	2.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	2.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	2.00000	19.50000	1.12500	0.0	0.14956	-	-
		-14.00000	2.00000	19.50000	1.50000	0.0	0.48501	-	-
		-13.00000	2.00000	19.50000	1.87500	0.0	0.87237	-	-
		-12.00000	2.00000	19.50000	2.25000	0.0	1.3213	-	-
		-11.00000	2.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	2.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	2.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	2.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	2.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	2.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	2.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	2.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	2.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	2.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	2.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	2.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	2.00000	19.50000			Point lies within an excavation.	-	-
		2.00000	2.00000	19.50000			Point lies within an excavation.	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
		3.00000	2.00000	19.50000				Point lies within an excavation.	
		4.00000	2.00000	19.50000				Point lies within an excavation.	
		5.00000	2.00000	19.50000				Point lies within an excavation.	
		6.00000	2.00000	19.50000				Point lies within an excavation.	
		7.00000	2.00000	19.50000				Point lies within an excavation.	
		8.00000	2.00000	19.50000				Point lies within an excavation.	
		9.00000	2.00000	19.50000				Point lies within an excavation.	
		10.00000	2.00000	19.50000				Point lies within an excavation.	
		11.00000	2.00000	19.50000				Point lies within an excavation.	
		12.00000	2.00000	19.50000				Point lies within an excavation.	
		13.00000	2.00000	19.50000				Point lies within an excavation.	
		14.00000	2.00000	19.50000				Point lies within an excavation.	
		15.00000	2.00000	19.50000				Point lies within an excavation.	
		16.00000	2.00000	19.50000				Point lies within an excavation.	
		17.00000	2.00000	19.50000				Point lies within an excavation.	
		18.00000	2.00000	19.50000				Point lies within an excavation.	
		19.00000	2.00000	19.50000				Point lies within an excavation.	
		20.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	2.00000	19.50000				Point lies within an excavation.	
		22.00000	2.00000	19.50000				Point lies within an excavation.	
		23.00000	2.00000	19.50000				Point lies within an excavation.	
		24.00000	2.00000	19.50000				Point lies within an excavation.	
		25.00000	2.00000	19.50000				Point lies within an excavation.	
		26.00000	2.00000	19.50000				Point lies within an excavation.	
		27.00000	2.00000	19.50000				Point lies within an excavation.	
		28.00000	2.00000	19.50000				Point lies within an excavation.	
		29.00000	2.00000	19.50000				Point lies within an excavation.	
		30.00000	2.00000	19.50000				Point lies within an excavation.	
		31.00000	2.00000	19.50000				Point lies within an excavation.	
		32.00000	2.00000	19.50000				Point lies within an excavation.	
		33.00000	2.00000	19.50000				Point lies within an excavation.	
		34.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	2.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	3.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	3.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	3.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	3.00000	19.50000	1.12500	0.0	0.14956	-	-
		-14.00000	3.00000	19.50000	1.50000	0.0	0.48501	-	-
		-13.00000	3.00000	19.50000	1.87500	0.0	0.87297	-	-
		-12.00000	3.00000	19.50000	2.25000	0.0	1.3213	-	-
		-11.00000	3.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	3.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	3.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	3.00000	19.50000	4.9152	0.0	3.6912	-	-
		-7.00000	3.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	3.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	3.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	3.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	3.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	3.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	3.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	3.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	3.00000	19.50000				Point lies within an excavation.	
		2.00000	3.00000	19.50000				Point lies within an excavation.	
		3.00000	3.00000	19.50000				Point lies within an excavation.	
		4.00000	3.00000	19.50000				Point lies within an excavation.	
		5.00000	3.00000	19.50000				Point lies within an excavation.	
		6.00000	3.00000	19.50000				Point lies within an excavation.	
		7.00000	3.00000	19.50000				Point lies within an excavation.	
		8.00000	3.00000	19.50000				Point lies within an excavation.	
		9.00000	3.00000	19.50000				Point lies within an excavation.	
		10.00000	3.00000	19.50000				Point lies within an excavation.	
		11.00000	3.00000	19.50000				Point lies within an excavation.	
		12.00000	3.00000	19.50000				Point lies within an excavation.	
		13.00000	3.00000	19.50000				Point lies within an excavation.	
		14.00000	3.00000	19.50000				Point lies within an excavation.	
		15.00000	3.00000	19.50000				Point lies within an excavation.	
		16.00000	3.00000	19.50000				Point lies within an excavation.	
		17.00000	3.00000	19.50000				Point lies within an excavation.	
		18.00000	3.00000	19.50000				Point lies within an excavation.	
		19.00000	3.00000	19.50000				Point lies within an excavation.	
		20.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	3.00000	19.50000				Point lies within an excavation.	
		22.00000	3.00000	19.50000				Point lies within an excavation.	
		23.00000	3.00000	19.50000				Point lies within an excavation.	
		24.00000	3.00000	19.50000				Point lies within an excavation.	
		25.00000	3.00000	19.50000				Point lies within an excavation.	
		26.00000	3.00000	19.50000				Point lies within an excavation.	
		27.00000	3.00000	19.50000				Point lies within an excavation.	
		28.00000	3.00000	19.50000				Point lies within an excavation.	
		29.00000	3.00000	19.50000				Point lies within an excavation.	
		30.00000	3.00000	19.50000				Point lies within an excavation.	
		31.00000	3.00000	19.50000				Point lies within an excavation.	
		32.00000	3.00000	19.50000				Point lies within an excavation.	
		33.00000	3.00000	19.50000				Point lies within an excavation.	
		34.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	3.00000	19.50000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		52.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	3.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	4.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	4.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	4.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	4.00000	19.50000	1.1250	0.0	0.14956	-	-
		-14.00000	4.00000	19.50000	1.5000	0.0	0.48501	-	-
		-13.00000	4.00000	19.50000	1.8750	0.0	0.87237	-	-
		-12.00000	4.00000	19.50000	2.2500	0.0	1.3213	-	-
		-11.00000	4.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	4.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	4.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	4.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	4.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	4.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	4.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	4.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	4.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	4.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	4.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	4.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	4.00000	19.50000			Point lies within an excavation.		
		2.00000	4.00000	19.50000			Point lies within an excavation.		
		3.00000	4.00000	19.50000			Point lies within an excavation.		
		4.00000	4.00000	19.50000			Point lies within an excavation.		
		5.00000	4.00000	19.50000			Point lies within an excavation.		
		6.00000	4.00000	19.50000			Point lies within an excavation.		
		7.00000	4.00000	19.50000			Point lies within an excavation.		
		8.00000	4.00000	19.50000			Point lies within an excavation.		
		9.00000	4.00000	19.50000			Point lies within an excavation.		
		10.00000	4.00000	19.50000			Point lies within an excavation.		
		11.00000	4.00000	19.50000			Point lies within an excavation.		
		12.00000	4.00000	19.50000			Point lies within an excavation.		
		13.00000	4.00000	19.50000			Point lies within an excavation.		
		14.00000	4.00000	19.50000			Point lies within an excavation.		
		15.00000	4.00000	19.50000			Point lies within an excavation.		
		16.00000	4.00000	19.50000			Point lies within an excavation.		
		17.00000	4.00000	19.50000			Point lies within an excavation.		
		18.00000	4.00000	19.50000			Point lies within an excavation.		
		19.00000	4.00000	19.50000			Point lies within an excavation.		
		20.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	4.00000	19.50000			Point lies within an excavation.		
		22.00000	4.00000	19.50000			Point lies within an excavation.		
		23.00000	4.00000	19.50000			Point lies within an excavation.		
		24.00000	4.00000	19.50000			Point lies within an excavation.		
		25.00000	4.00000	19.50000			Point lies within an excavation.		
		26.00000	4.00000	19.50000			Point lies within an excavation.		
		27.00000	4.00000	19.50000			Point lies within an excavation.		
		28.00000	4.00000	19.50000			Point lies within an excavation.		
		29.00000	4.00000	19.50000			Point lies within an excavation.		
		30.00000	4.00000	19.50000			Point lies within an excavation.		
		31.00000	4.00000	19.50000			Point lies within an excavation.		
		32.00000	4.00000	19.50000			Point lies within an excavation.		
		33.00000	4.00000	19.50000			Point lies within an excavation.		
		34.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	4.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	5.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	5.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	5.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	5.00000	19.50000	1.1250	0.0	0.14956	-	-
		-14.00000	5.00000	19.50000	1.5000	0.0	0.48501	-	-
		-13.00000	5.00000	19.50000	1.8750	0.0	0.87237	-	-
		-12.00000	5.00000	19.50000	2.2500	0.0	1.3213	-	-
		-11.00000	5.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	5.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	5.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	5.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	5.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	5.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	5.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	5.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	5.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	5.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	5.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	5.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	5.00000	19.50000			Point lies within an excavation.		
		2.00000	5.00000	19.50000			Point lies within an excavation.		
		3.00000	5.00000	19.50000			Point lies within an excavation.		
		4.00000	5.00000	19.50000			Point lies within an excavation.		
		5.00000	5.00000	19.50000			Point lies within an excavation.		
		6.00000	5.00000	19.50000			Point lies within an excavation.		
		7.00000	5.00000	19.50000			Point lies within an excavation.		
		8.00000	5.00000	19.50000			Point lies within an excavation.		
		9.00000	5.00000	19.50000			Point lies within an excavation.		
		10.00000	5.00000	19.50000			Point lies within an excavation.		
		11.00000	5.00000	19.50000			Point lies within an excavation.		
		12.00000	5.00000	19.50000			Point lies within an excavation.		
		13.00000	5.00000	19.50000			Point lies within an excavation.		
		14.00000	5.00000	19.50000			Point lies within an excavation.		
		15.00000	5.00000	19.50000			Point lies within an excavation.		
		16.00000	5.00000	19.50000			Point lies within an excavation.		
		17.00000	5.00000	19.50000			Point lies within an excavation.		
		18.00000	5.00000	19.50000			Point lies within an excavation.		
		19.00000	5.00000	19.50000			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		20.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	5.00000	19.50000				Point lies within an excavation.	
		22.00000	5.00000	19.50000				Point lies within an excavation.	
		23.00000	5.00000	19.50000				Point lies within an excavation.	
		24.00000	5.00000	19.50000				Point lies within an excavation.	
		25.00000	5.00000	19.50000				Point lies within an excavation.	
		26.00000	5.00000	19.50000				Point lies within an excavation.	
		27.00000	5.00000	19.50000				Point lies within an excavation.	
		28.00000	5.00000	19.50000				Point lies within an excavation.	
		29.00000	5.00000	19.50000				Point lies within an excavation.	
		30.00000	5.00000	19.50000				Point lies within an excavation.	
		31.00000	5.00000	19.50000				Point lies within an excavation.	
		32.00000	5.00000	19.50000				Point lies within an excavation.	
		33.00000	5.00000	19.50000				Point lies within an excavation.	
		34.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	5.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	6.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	6.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	6.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	6.00000	19.50000	1.12500	0.0	0.14956	-	-
		-14.00000	6.00000	19.50000	1.50000	0.0	0.48501	-	-
		-13.00000	6.00000	19.50000	1.87500	0.0	0.87237	-	-
		-12.00000	6.00000	19.50000	2.25000	0.0	1.3213	-	-
		-11.00000	6.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	6.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	6.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	6.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	6.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	6.00000	19.50000	6.5004	0.0	4.9698	-	-
		-5.00000	6.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	6.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	6.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	6.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	6.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	6.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	6.00000	19.50000				Point lies within an excavation.	
		2.00000	6.00000	19.50000				Point lies within an excavation.	
		3.00000	6.00000	19.50000				Point lies within an excavation.	
		4.00000	6.00000	19.50000				Point lies within an excavation.	
		5.00000	6.00000	19.50000				Point lies within an excavation.	
		6.00000	6.00000	19.50000				Point lies within an excavation.	
		7.00000	6.00000	19.50000				Point lies within an excavation.	
		8.00000	6.00000	19.50000				Point lies within an excavation.	
		9.00000	6.00000	19.50000				Point lies within an excavation.	
		10.00000	6.00000	19.50000				Point lies within an excavation.	
		11.00000	6.00000	19.50000				Point lies within an excavation.	
		12.00000	6.00000	19.50000				Point lies within an excavation.	
		13.00000	6.00000	19.50000				Point lies within an excavation.	
		14.00000	6.00000	19.50000				Point lies within an excavation.	
		15.00000	6.00000	19.50000				Point lies within an excavation.	
		16.00000	6.00000	19.50000				Point lies within an excavation.	
		17.00000	6.00000	19.50000				Point lies within an excavation.	
		18.00000	6.00000	19.50000				Point lies within an excavation.	
		19.00000	6.00000	19.50000				Point lies within an excavation.	
		20.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	6.00000	19.50000				Point lies within an excavation.	
		22.00000	6.00000	19.50000				Point lies within an excavation.	
		23.00000	6.00000	19.50000				Point lies within an excavation.	
		24.00000	6.00000	19.50000				Point lies within an excavation.	
		25.00000	6.00000	19.50000				Point lies within an excavation.	
		26.00000	6.00000	19.50000				Point lies within an excavation.	
		27.00000	6.00000	19.50000				Point lies within an excavation.	
		28.00000	6.00000	19.50000				Point lies within an excavation.	
		29.00000	6.00000	19.50000				Point lies within an excavation.	
		30.00000	6.00000	19.50000				Point lies within an excavation.	
		31.00000	6.00000	19.50000				Point lies within an excavation.	
		32.00000	6.00000	19.50000				Point lies within an excavation.	
		33.00000	6.00000	19.50000				Point lies within an excavation.	
		34.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	6.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	7.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	7.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	7.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	7.00000	19.50000	1.12500	0.0	0.14956	-	-
		-14.00000	7.00000	19.50000	1.50000	0.0	0.48501	-	-
		-13.00000	7.00000	19.50000	1.87500	0.0	0.87237	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-12.00000	7.00000	19.50000	2.2500	0.0	1.3213	-	-
		-11.00000	7.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	7.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	7.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	7.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	7.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	7.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	7.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	7.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	7.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	7.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	7.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	7.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	7.00000	19.50000				Point lies within an excavation.	
		2.00000	7.00000	19.50000				Point lies within an excavation.	
		3.00000	7.00000	19.50000				Point lies within an excavation.	
		4.00000	7.00000	19.50000				Point lies within an excavation.	
		5.00000	7.00000	19.50000				Point lies within an excavation.	
		6.00000	7.00000	19.50000				Point lies within an excavation.	
		7.00000	7.00000	19.50000				Point lies within an excavation.	
		8.00000	7.00000	19.50000				Point lies within an excavation.	
		9.00000	7.00000	19.50000				Point lies within an excavation.	
		10.00000	7.00000	19.50000				Point lies within an excavation.	
		11.00000	7.00000	19.50000				Point lies within an excavation.	
		12.00000	7.00000	19.50000				Point lies within an excavation.	
		13.00000	7.00000	19.50000				Point lies within an excavation.	
		14.00000	7.00000	19.50000				Point lies within an excavation.	
		15.00000	7.00000	19.50000				Point lies within an excavation.	
		16.00000	7.00000	19.50000				Point lies within an excavation.	
		17.00000	7.00000	19.50000				Point lies within an excavation.	
		18.00000	7.00000	19.50000				Point lies within an excavation.	
		19.00000	7.00000	19.50000				Point lies within an excavation.	
		20.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	7.00000	19.50000				Point lies within an excavation.	
		22.00000	7.00000	19.50000				Point lies within an excavation.	
		23.00000	7.00000	19.50000				Point lies within an excavation.	
		24.00000	7.00000	19.50000				Point lies within an excavation.	
		25.00000	7.00000	19.50000				Point lies within an excavation.	
		26.00000	7.00000	19.50000				Point lies within an excavation.	
		27.00000	7.00000	19.50000				Point lies within an excavation.	
		28.00000	7.00000	19.50000				Point lies within an excavation.	
		29.00000	7.00000	19.50000				Point lies within an excavation.	
		30.00000	7.00000	19.50000				Point lies within an excavation.	
		31.00000	7.00000	19.50000				Point lies within an excavation.	
		32.00000	7.00000	19.50000				Point lies within an excavation.	
		33.00000	7.00000	19.50000				Point lies within an excavation.	
		34.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	7.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	8.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	8.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	8.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	8.00000	19.50000	1.1250	0.0	0.14956	-	-
		-14.00000	8.00000	19.50000	1.5000	0.0	0.48501	-	-
		-13.00000	8.00000	19.50000	1.8750	0.0	0.87237	-	-
		-12.00000	8.00000	19.50000	2.2500	0.0	1.3213	-	-
		-11.00000	8.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	8.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	8.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	8.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	8.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	8.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	8.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	8.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	8.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	8.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	8.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	8.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	8.00000	19.50000				Point lies within an excavation.	
		2.00000	8.00000	19.50000				Point lies within an excavation.	
		3.00000	8.00000	19.50000				Point lies within an excavation.	
		4.00000	8.00000	19.50000				Point lies within an excavation.	
		5.00000	8.00000	19.50000				Point lies within an excavation.	
		6.00000	8.00000	19.50000				Point lies within an excavation.	
		7.00000	8.00000	19.50000				Point lies within an excavation.	
		8.00000	8.00000	19.50000				Point lies within an excavation.	
		9.00000	8.00000	19.50000				Point lies within an excavation.	
		10.00000	8.00000	19.50000				Point lies within an excavation.	
		11.00000	8.00000	19.50000				Point lies within an excavation.	
		12.00000	8.00000	19.50000				Point lies within an excavation.	
		13.00000	8.00000	19.50000				Point lies within an excavation.	
		14.00000	8.00000	19.50000				Point lies within an excavation.	
		15.00000	8.00000	19.50000				Point lies within an excavation.	
		16.00000	8.00000	19.50000				Point lies within an excavation.	
		17.00000	8.00000	19.50000				Point lies within an excavation.	
		18.00000	8.00000	19.50000				Point lies within an excavation.	
		19.00000	8.00000	19.50000				Point lies within an excavation.	
		20.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	8.00000	19.50000				Point lies within an excavation.	
		22.00000	8.00000	19.50000				Point lies within an excavation.	
		23.00000	8.00000	19.50000				Point lies within an excavation.	
		24.00000	8.00000	19.50000				Point lies within an excavation.	
		25.00000	8.00000	19.50000				Point lies within an excavation.	
		26.00000	8.00000	19.50000				Point lies within an excavation.	
		27.00000	8.00000	19.50000				Point lies within an excavation.	
		28.00000	8.00000	19.50000				Point lies within an excavation.	
		29.00000	8.00000	19.50000				Point lies within an excavation.	
		30.00000	8.00000	19.50000				Point lies within an excavation.	
		31.00000	8.00000	19.50000				Point lies within an excavation.	
		32.00000	8.00000	19.50000				Point lies within an excavation.	
		33.00000	8.00000	19.50000				Point lies within an excavation.	
		34.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	8.00000	19.50000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		37.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	8.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	9.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	9.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	9.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	9.00000	19.50000	1.12500	0.0	0.14956	-	-
		-14.00000	9.00000	19.50000	1.50000	0.0	0.48501	-	-
		-13.00000	9.00000	19.50000	1.87500	0.0	0.87237	-	-
		-12.00000	9.00000	19.50000	2.25000	0.0	1.3213	-	-
		-11.00000	9.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	9.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	9.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	9.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	9.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	9.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	9.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	9.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	9.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	9.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	9.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	9.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	9.00000	19.50000				Point lies within an excavation.	
		2.00000	9.00000	19.50000				Point lies within an excavation.	
		3.00000	9.00000	19.50000				Point lies within an excavation.	
		4.00000	9.00000	19.50000				Point lies within an excavation.	
		5.00000	9.00000	19.50000				Point lies within an excavation.	
		6.00000	9.00000	19.50000				Point lies within an excavation.	
		7.00000	9.00000	19.50000				Point lies within an excavation.	
		8.00000	9.00000	19.50000				Point lies within an excavation.	
		9.00000	9.00000	19.50000				Point lies within an excavation.	
		10.00000	9.00000	19.50000				Point lies within an excavation.	
		11.00000	9.00000	19.50000				Point lies within an excavation.	
		12.00000	9.00000	19.50000				Point lies within an excavation.	
		13.00000	9.00000	19.50000				Point lies within an excavation.	
		14.00000	9.00000	19.50000				Point lies within an excavation.	
		15.00000	9.00000	19.50000				Point lies within an excavation.	
		16.00000	9.00000	19.50000				Point lies within an excavation.	
		17.00000	9.00000	19.50000				Point lies within an excavation.	
		18.00000	9.00000	19.50000				Point lies within an excavation.	
		19.00000	9.00000	19.50000				Point lies within an excavation.	
		20.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	9.00000	19.50000				Point lies within an excavation.	
		22.00000	9.00000	19.50000				Point lies within an excavation.	
		23.00000	9.00000	19.50000				Point lies within an excavation.	
		24.00000	9.00000	19.50000				Point lies within an excavation.	
		25.00000	9.00000	19.50000				Point lies within an excavation.	
		26.00000	9.00000	19.50000				Point lies within an excavation.	
		27.00000	9.00000	19.50000				Point lies within an excavation.	
		28.00000	9.00000	19.50000				Point lies within an excavation.	
		29.00000	9.00000	19.50000				Point lies within an excavation.	
		30.00000	9.00000	19.50000				Point lies within an excavation.	
		31.00000	9.00000	19.50000				Point lies within an excavation.	
		32.00000	9.00000	19.50000				Point lies within an excavation.	
		33.00000	9.00000	19.50000				Point lies within an excavation.	
		34.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	9.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	10.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	10.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	10.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	10.00000	19.50000	1.12500	0.0	0.14956	-	-
		-14.00000	10.00000	19.50000	1.50000	0.0	0.48501	-	-
		-13.00000	10.00000	19.50000	1.87500	0.0	0.87237	-	-
		-12.00000	10.00000	19.50000	2.25000	0.0	1.3213	-	-
		-11.00000	10.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	10.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	10.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	10.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	10.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	10.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	10.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	10.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	10.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	10.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	10.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	10.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	10.00000	19.50000				Point lies within an excavation.	
		2.00000	10.00000	19.50000				Point lies within an excavation.	
		3.00000	10.00000	19.50000				Point lies within an excavation.	
		4.00000	10.00000	19.50000				Point lies within an excavation.	



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
		5.00000	10.00000	19.50000				Point lies within an excavation.	
		6.00000	10.00000	19.50000				Point lies within an excavation.	
		7.00000	10.00000	19.50000				Point lies within an excavation.	
		8.00000	10.00000	19.50000				Point lies within an excavation.	
		9.00000	10.00000	19.50000				Point lies within an excavation.	
		10.00000	10.00000	19.50000				Point lies within an excavation.	
		11.00000	10.00000	19.50000				Point lies within an excavation.	
		12.00000	10.00000	19.50000				Point lies within an excavation.	
		13.00000	10.00000	19.50000				Point lies within an excavation.	
		14.00000	10.00000	19.50000				Point lies within an excavation.	
		15.00000	10.00000	19.50000				Point lies within an excavation.	
		16.00000	10.00000	19.50000				Point lies within an excavation.	
		17.00000	10.00000	19.50000				Point lies within an excavation.	
		18.00000	10.00000	19.50000				Point lies within an excavation.	
		19.00000	10.00000	19.50000				Point lies within an excavation.	
		20.00000	10.00000	19.50000	0.0			0.0	-
		21.00000	10.00000	19.50000				Point lies within an excavation.	
		22.00000	10.00000	19.50000				Point lies within an excavation.	
		23.00000	10.00000	19.50000				Point lies within an excavation.	
		24.00000	10.00000	19.50000				Point lies within an excavation.	
		25.00000	10.00000	19.50000				Point lies within an excavation.	
		26.00000	10.00000	19.50000				Point lies within an excavation.	
		27.00000	10.00000	19.50000				Point lies within an excavation.	
		28.00000	10.00000	19.50000				Point lies within an excavation.	
		29.00000	10.00000	19.50000				Point lies within an excavation.	
		30.00000	10.00000	19.50000				Point lies within an excavation.	
		31.00000	10.00000	19.50000				Point lies within an excavation.	
		32.00000	10.00000	19.50000				Point lies within an excavation.	
		33.00000	10.00000	19.50000				Point lies within an excavation.	
		34.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	10.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	11.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	11.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	11.00000	19.50000	0.75000	0.0	0.09421	-	-
		-15.00000	11.00000	19.50000	1.12500	0.0	0.14956	-	-
		-14.00000	11.00000	19.50000	1.50000	0.0	0.48501	-	-
		-13.00000	11.00000	19.50000	1.87500	0.0	0.87237	-	-
		-12.00000	11.00000	19.50000	2.25000	0.0	1.3213	-	-
		-11.00000	11.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	11.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	11.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	11.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	11.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	11.00000	19.50000	6.5004	0.0	4.9698	-	-
		-5.00000	11.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	11.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	11.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	11.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	11.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	11.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	11.00000	19.50000				Point lies within an excavation.	
		2.00000	11.00000	19.50000				Point lies within an excavation.	
		3.00000	11.00000	19.50000				Point lies within an excavation.	
		4.00000	11.00000	19.50000				Point lies within an excavation.	
		5.00000	11.00000	19.50000				Point lies within an excavation.	
		6.00000	11.00000	19.50000				Point lies within an excavation.	
		7.00000	11.00000	19.50000				Point lies within an excavation.	
		8.00000	11.00000	19.50000				Point lies within an excavation.	
		9.00000	11.00000	19.50000				Point lies within an excavation.	
		10.00000	11.00000	19.50000				Point lies within an excavation.	
		11.00000	11.00000	19.50000				Point lies within an excavation.	
		12.00000	11.00000	19.50000				Point lies within an excavation.	
		13.00000	11.00000	19.50000				Point lies within an excavation.	
		14.00000	11.00000	19.50000				Point lies within an excavation.	
		15.00000	11.00000	19.50000				Point lies within an excavation.	
		16.00000	11.00000	19.50000				Point lies within an excavation.	
		17.00000	11.00000	19.50000				Point lies within an excavation.	
		18.00000	11.00000	19.50000				Point lies within an excavation.	
		19.00000	11.00000	19.50000				Point lies within an excavation.	
		20.00000	11.00000	19.50000	0.0		0.0	-	-
		21.00000	11.00000	19.50000				Point lies within an excavation.	
		22.00000	11.00000	19.50000				Point lies within an excavation.	
		23.00000	11.00000	19.50000				Point lies within an excavation.	
		24.00000	11.00000	19.50000				Point lies within an excavation.	
		25.00000	11.00000	19.50000				Point lies within an excavation.	
		26.00000	11.00000	19.50000				Point lies within an excavation.	
		27.00000	11.00000	19.50000				Point lies within an excavation.	
		28.00000	11.00000	19.50000				Point lies within an excavation.	
		29.00000	11.00000	19.50000				Point lies within an excavation.	
		30.00000	11.00000	19.50000				Point lies within an excavation.	
		31.00000	11.00000	19.50000				Point lies within an excavation.	
		32.00000	11.00000	19.50000				Point lies within an excavation.	
		33.00000	11.00000	19.50000				Point lies within an excavation.	
		34.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	11.00000	19.50000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		54.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	11.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	12.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	12.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	12.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	12.00000	19.50000	1.12500	0.0	0.14956	-	-
		-14.00000	12.00000	19.50000	1.50000	0.0	0.48501	-	-
		-13.00000	12.00000	19.50000	1.87500	0.0	0.87237	-	-
		-12.00000	12.00000	19.50000	2.25000	0.0	1.3213	-	-
		-11.00000	12.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	12.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	12.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	12.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	12.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	12.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	12.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	12.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	12.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	12.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	12.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	12.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	12.00000	19.50000			Point lies within an excavation.		
		2.00000	12.00000	19.50000			Point lies within an excavation.		
		3.00000	12.00000	19.50000			Point lies within an excavation.		
		4.00000	12.00000	19.50000			Point lies within an excavation.		
		5.00000	12.00000	19.50000			Point lies within an excavation.		
		6.00000	12.00000	19.50000			Point lies within an excavation.		
		7.00000	12.00000	19.50000			Point lies within an excavation.		
		8.00000	12.00000	19.50000			Point lies within an excavation.		
		9.00000	12.00000	19.50000			Point lies within an excavation.		
		10.00000	12.00000	19.50000			Point lies within an excavation.		
		11.00000	12.00000	19.50000			Point lies within an excavation.		
		12.00000	12.00000	19.50000			Point lies within an excavation.		
		13.00000	12.00000	19.50000			Point lies within an excavation.		
		14.00000	12.00000	19.50000			Point lies within an excavation.		
		15.00000	12.00000	19.50000			Point lies within an excavation.		
		16.00000	12.00000	19.50000			Point lies within an excavation.		
		17.00000	12.00000	19.50000			Point lies within an excavation.		
		18.00000	12.00000	19.50000			Point lies within an excavation.		
		19.00000	12.00000	19.50000			Point lies within an excavation.		
		20.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	12.00000	19.50000			Point lies within an excavation.		
		22.00000	12.00000	19.50000			Point lies within an excavation.		
		23.00000	12.00000	19.50000			Point lies within an excavation.		
		24.00000	12.00000	19.50000			Point lies within an excavation.		
		25.00000	12.00000	19.50000			Point lies within an excavation.		
		26.00000	12.00000	19.50000			Point lies within an excavation.		
		27.00000	12.00000	19.50000			Point lies within an excavation.		
		28.00000	12.00000	19.50000			Point lies within an excavation.		
		29.00000	12.00000	19.50000			Point lies within an excavation.		
		30.00000	12.00000	19.50000			Point lies within an excavation.		
		31.00000	12.00000	19.50000			Point lies within an excavation.		
		32.00000	12.00000	19.50000			Point lies within an excavation.		
		33.00000	12.00000	19.50000			Point lies within an excavation.		
		34.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	12.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	13.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	13.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	13.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	13.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	13.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	13.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	13.00000	19.50000	0.0	0.0	0.0038642	-	-
		-18.00000	13.00000	19.50000	0.37500	0.0	0.061035	-	-
		-17.00000	13.00000	19.50000	0.75000	0.0	0.099421	-	-
		-16.00000	13.00000	19.50000	1.12500	0.0	0.14956	-	-
		-15.00000	13.00000	19.50000	1.50000	0.0	0.48501	-	-
		-14.00000	13.00000	19.50000	1.87500	0.0	0.87237	-	-
		-13.00000	13.00000	19.50000	2.25000	0.0	1.3213	-	-
		-12.00000	13.00000	19.50000	2.7141	0.0	1.8344	-	-
		-11.00000	13.00000	19.50000	3.4393	0.0	2.4075	-	-
		-10.00000	13.00000	19.50000	4.1693	0.0	3.0291	-	-
		-9.00000	13.00000	19.50000	4.9152	0.0	3.6812	-	-
		-8.00000	13.00000	19.50000	5.6885	0.0	4.3385	-	-
		-7.00000	13.00000	19.50000	6.5004	0.0	4.9688	-	-
		-6.00000	13.00000	19.50000	7.3624	0.0	5.5330	-	-
		-5.00000	13.00000	19.50000	8.2856	0.0	5.9849	-	-
		-4.00000	13.00000	19.50000	9.2814	0.0	6.2716	-	-
		-3.00000	13.00000	19.50000	10.361	0.0	6.3329	-	-
		-2.00000	13.00000	19.50000	11.536	0.0	6.1019	-	-
		-1.00000	13.00000	19.50000	12.818	0.0	5.5046	-	-
		0.00000	13.00000	19.50000			Point lies within an excavation.		
		1.00000	13.00000	19.50000			Point lies within an excavation.		
		2.00000	13.00000	19.50000			Point lies within an excavation.		
		3.00000	13.00000	19.50000			Point lies within an excavation.		
		4.00000	13.00000	19.50000			Point lies within an excavation.		
		5.00000	13.00000	19.50000			Point lies within an excavation.		
		6.00000	13.00000	19.50000			Point lies within an excavation.		
		7.00000	13.00000	19.50000			Point lies within an excavation.		
		8.00000	13.00000	19.50000			Point lies within an excavation.		
		9.00000	13.00000	19.50000			Point lies within an excavation.		
		10.00000	13.00000	19.50000			Point lies within an excavation.		
		11.00000	13.00000	19.50000			Point lies within an excavation.		
		12.00000	13.00000	19.50000			Point lies within an excavation.		
		13.00000	13.00000	19.50000			Point lies within an excavation.		
		14.00000	13.00000	19.50000			Point lies within an excavation.		
		15.00000	13.00000	19.50000			Point lies within an excavation.		
		16.00000	13.00000	19.50000			Point lies within an excavation.		
		17.00000	13.00000	19.50000			Point lies within an excavation.		
		18.00000	13.00000	19.50000			Point lies within an excavation.		
		19.00000	13.00000	19.50000			Point lies within an excavation.		
		20.00000	13.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	13.00000	19.50000			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
	22.00000	13.00000	19.50000					Point lies within an excavation.	
	23.00000	13.00000	19.50000					Point lies within an excavation.	
	24.00000	13.00000	19.50000					Point lies within an excavation.	
	25.00000	13.00000	19.50000					Point lies within an excavation.	
	26.00000	13.00000	19.50000					Point lies within an excavation.	
	27.00000	13.00000	19.50000					Point lies within an excavation.	
	28.00000	13.00000	19.50000					Point lies within an excavation.	
	29.00000	13.00000	19.50000					Point lies within an excavation.	
	30.00000	13.00000	19.50000					Point lies within an excavation.	
	31.00000	13.00000	19.50000					Point lies within an excavation.	
	32.00000	13.00000	19.50000					Point lies within an excavation.	
	33.00000	13.00000	19.50000					Point lies within an excavation.	
	34.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	35.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	36.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	37.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	38.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	39.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	40.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	41.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	42.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	43.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	44.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	45.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	46.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	47.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	48.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	49.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	50.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	51.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	52.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	53.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	54.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	55.00000	13.00000	19.50000		0.0	0.0	0.0	-	-
	-25.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	-24.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	-23.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	-22.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	-21.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	-20.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	-19.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	-18.00000	14.00000	19.50000		0.0	0.0	0.0038642	-	-
	-17.00000	14.00000	19.50000		0.37500	0.0	0.061035	-	-
	-16.00000	14.00000	19.50000		0.75000	0.0	0.099421	-	-
	-15.00000	14.00000	19.50000		1.1250	0.0	0.14956	-	-
	-14.00000	14.00000	19.50000		1.5000	0.0	0.48501	-	-
	-13.00000	14.00000	19.50000		1.8750	0.0	0.87237	-	-
	-12.00000	14.00000	19.50000		2.2500	0.0	1.3213	-	-
	-11.00000	14.00000	19.50000		2.7141	0.0	1.8344	-	-
	-10.00000	14.00000	19.50000		3.4393	0.0	2.4075	-	-
	-9.00000	14.00000	19.50000		4.1693	0.0	3.0291	-	-
	-8.00000	14.00000	19.50000		4.9152	0.0	3.6812	-	-
	-7.00000	14.00000	19.50000		5.6885	0.0	4.3385	-	-
	-6.00000	14.00000	19.50000		6.5004	0.0	4.9688	-	-
	-5.00000	14.00000	19.50000		7.3624	0.0	5.5330	-	-
	-4.00000	14.00000	19.50000		8.2856	0.0	5.9849	-	-
	-3.00000	14.00000	19.50000		9.2814	0.0	6.2716	-	-
	-2.00000	14.00000	19.50000		10.361	0.0	6.3329	-	-
	-1.00000	14.00000	19.50000		11.536	0.0	6.1019	-	-
	0.00000	14.00000	19.50000		12.818	0.0	5.5046	-	-
	1.00000	14.00000	19.50000					Point lies within an excavation.	
	2.00000	14.00000	19.50000					Point lies within an excavation.	
	3.00000	14.00000	19.50000					Point lies within an excavation.	
	4.00000	14.00000	19.50000					Point lies within an excavation.	
	5.00000	14.00000	19.50000					Point lies within an excavation.	
	6.00000	14.00000	19.50000					Point lies within an excavation.	
	7.00000	14.00000	19.50000					Point lies within an excavation.	
	8.00000	14.00000	19.50000					Point lies within an excavation.	
	9.00000	14.00000	19.50000					Point lies within an excavation.	
	10.00000	14.00000	19.50000					Point lies within an excavation.	
	11.00000	14.00000	19.50000					Point lies within an excavation.	
	12.00000	14.00000	19.50000					Point lies within an excavation.	
	13.00000	14.00000	19.50000					Point lies within an excavation.	
	14.00000	14.00000	19.50000					Point lies within an excavation.	
	15.00000	14.00000	19.50000					Point lies within an excavation.	
	16.00000	14.00000	19.50000					Point lies within an excavation.	
	17.00000	14.00000	19.50000					Point lies within an excavation.	
	18.00000	14.00000	19.50000					Point lies within an excavation.	
	19.00000	14.00000	19.50000					Point lies within an excavation.	
	20.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	21.00000	14.00000	19.50000					Point lies within an excavation.	
	22.00000	14.00000	19.50000					Point lies within an excavation.	
	23.00000	14.00000	19.50000					Point lies within an excavation.	
	24.00000	14.00000	19.50000					Point lies within an excavation.	
	25.00000	14.00000	19.50000					Point lies within an excavation.	
	26.00000	14.00000	19.50000					Point lies within an excavation.	
	27.00000	14.00000	19.50000					Point lies within an excavation.	
	28.00000	14.00000	19.50000					Point lies within an excavation.	
	29.00000	14.00000	19.50000					Point lies within an excavation.	
	30.00000	14.00000	19.50000					Point lies within an excavation.	
	31.00000	14.00000	19.50000					Point lies within an excavation.	
	32.00000	14.00000	19.50000					Point lies within an excavation.	
	33.00000	14.00000	19.50000					Point lies within an excavation.	
	34.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	35.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	36.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	37.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	38.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	39.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	40.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	41.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	42.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	43.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	44.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	45.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	46.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	47.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	48.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	49.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	50.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	51.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	52.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	53.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	54.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	55.00000	14.00000	19.50000		0.0	0.0	0.0	-	-
	-25.00000	15.00000	19.50000		0.0	0.0	0.0	-	-
	-24.00000	15.00000	19.50000		0.0	0.0	0.0	-	-
	-23.00000	15.00000	19.50000		0.0	0.0	0.0	-	-
	-22.00000	15.00000	19.50000		0.0	0.0	0.0	-	-
	-21.00000	15.00000	19.50000		0.0	0.0	0.0	-	-
	-20.00000	15.00000	19.50000		0.0	0.0	0.0	-	-
	-19.00000	15.00000	19.50000		0.0	0.0	0.0	-	-
	-18.00000	15.00000	19.50000		0.0	0.0	0.0038642	-	-
	-17.00000	15.00000	19.50000		0.37500	0.0	0.061035	-	-
	-16.00000	15.00000	19.50000		0.75000	0.0	0.099421	-	-
	-15.00000	15.00000	19.50000		1.1250	0.0	0.14956	-	-
	-14.00000	15.00000	19.50000		1.5000	0.0	0.48501	-	-
	-13.00000	15.00000	19.50000		1.8750	0.0	0.87237	-	-
	-12.00000	15.00000	19.50000		2.2500	0.0	1.3213	-	-
	-11.00000	15.00000	19.50000		2.7141	0.0	1.8344	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-10.00000	15.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	15.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	15.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	15.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	15.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	15.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	15.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	15.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	15.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	15.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	15.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	15.00000	19.50000			Point lies within an excavation.		
		2.00000	15.00000	19.50000			Point lies within an excavation.		
		3.00000	15.00000	19.50000			Point lies within an excavation.		
		4.00000	15.00000	19.50000			Point lies within an excavation.		
		5.00000	15.00000	19.50000			Point lies within an excavation.		
		6.00000	15.00000	19.50000			Point lies within an excavation.		
		7.00000	15.00000	19.50000			Point lies within an excavation.		
		8.00000	15.00000	19.50000			Point lies within an excavation.		
		9.00000	15.00000	19.50000			Point lies within an excavation.		
		10.00000	15.00000	19.50000			Point lies within an excavation.		
		11.00000	15.00000	19.50000			Point lies within an excavation.		
		12.00000	15.00000	19.50000			Point lies within an excavation.		
		13.00000	15.00000	19.50000			Point lies within an excavation.		
		14.00000	15.00000	19.50000			Point lies within an excavation.		
		15.00000	15.00000	19.50000			Point lies within an excavation.		
		16.00000	15.00000	19.50000			Point lies within an excavation.		
		17.00000	15.00000	19.50000			Point lies within an excavation.		
		18.00000	15.00000	19.50000			Point lies within an excavation.		
		19.00000	15.00000	19.50000			Point lies within an excavation.		
		20.00000	15.00000	19.50000	0.0		0.0	0.0	-
		21.00000	15.00000	19.50000			Point lies within an excavation.		
		22.00000	15.00000	19.50000			Point lies within an excavation.		
		23.00000	15.00000	19.50000			Point lies within an excavation.		
		24.00000	15.00000	19.50000			Point lies within an excavation.		
		25.00000	15.00000	19.50000			Point lies within an excavation.		
		26.00000	15.00000	19.50000			Point lies within an excavation.		
		27.00000	15.00000	19.50000			Point lies within an excavation.		
		28.00000	15.00000	19.50000			Point lies within an excavation.		
		29.00000	15.00000	19.50000			Point lies within an excavation.		
		30.00000	15.00000	19.50000			Point lies within an excavation.		
		31.00000	15.00000	19.50000			Point lies within an excavation.		
		32.00000	15.00000	19.50000			Point lies within an excavation.		
		33.00000	15.00000	19.50000			Point lies within an excavation.		
		34.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	15.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	16.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	16.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	16.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	16.00000	19.50000	1.1250	0.0	0.14956	-	-
		-14.00000	16.00000	19.50000	1.5000	0.0	0.48501	-	-
		-13.00000	16.00000	19.50000	1.8750	0.0	0.87237	-	-
		-12.00000	16.00000	19.50000	2.2500	0.0	1.3213	-	-
		-11.00000	16.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	16.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	16.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	16.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	16.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	16.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	16.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	16.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	16.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	16.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	16.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	16.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	16.00000	19.50000			Point lies within an excavation.		
		2.00000	16.00000	19.50000			Point lies within an excavation.		
		3.00000	16.00000	19.50000			Point lies within an excavation.		
		4.00000	16.00000	19.50000			Point lies within an excavation.		
		5.00000	16.00000	19.50000			Point lies within an excavation.		
		6.00000	16.00000	19.50000			Point lies within an excavation.		
		7.00000	16.00000	19.50000			Point lies within an excavation.		
		8.00000	16.00000	19.50000			Point lies within an excavation.		
		9.00000	16.00000	19.50000			Point lies within an excavation.		
		10.00000	16.00000	19.50000			Point lies within an excavation.		
		11.00000	16.00000	19.50000			Point lies within an excavation.		
		12.00000	16.00000	19.50000			Point lies within an excavation.		
		13.00000	16.00000	19.50000			Point lies within an excavation.		
		14.00000	16.00000	19.50000			Point lies within an excavation.		
		15.00000	16.00000	19.50000			Point lies within an excavation.		
		16.00000	16.00000	19.50000			Point lies within an excavation.		
		17.00000	16.00000	19.50000			Point lies within an excavation.		
		18.00000	16.00000	19.50000			Point lies within an excavation.		
		19.00000	16.00000	19.50000			Point lies within an excavation.		
		20.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	16.00000	19.50000			Point lies within an excavation.		
		22.00000	16.00000	19.50000			Point lies within an excavation.		
		23.00000	16.00000	19.50000			Point lies within an excavation.		
		24.00000	16.00000	19.50000			Point lies within an excavation.		
		25.00000	16.00000	19.50000			Point lies within an excavation.		
		26.00000	16.00000	19.50000			Point lies within an excavation.		
		27.00000	16.00000	19.50000			Point lies within an excavation.		
		28.00000	16.00000	19.50000			Point lies within an excavation.		
		29.00000	16.00000	19.50000			Point lies within an excavation.		
		30.00000	16.00000	19.50000			Point lies within an excavation.		
		31.00000	16.00000	19.50000			Point lies within an excavation.		
		32.00000	16.00000	19.50000			Point lies within an excavation.		
		33.00000	16.00000	19.50000			Point lies within an excavation.		
		34.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	16.00000	19.50000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		39.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	16.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	17.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	17.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	17.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	17.00000	19.50000	1.12500	0.0	0.14956	-	-
		-14.00000	17.00000	19.50000	1.50000	0.0	0.48501	-	-
		-13.00000	17.00000	19.50000	1.87500	0.0	0.87237	-	-
		-12.00000	17.00000	19.50000	2.25000	0.0	1.3213	-	-
		-11.00000	17.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	17.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	17.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	17.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	17.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	17.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	17.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	17.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	17.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	17.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	17.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	17.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	17.00000	19.50000			Point lies within an excavation.		
		2.00000	17.00000	19.50000			Point lies within an excavation.		
		3.00000	17.00000	19.50000			Point lies within an excavation.		
		4.00000	17.00000	19.50000			Point lies within an excavation.		
		5.00000	17.00000	19.50000			Point lies within an excavation.		
		6.00000	17.00000	19.50000			Point lies within an excavation.		
		7.00000	17.00000	19.50000			Point lies within an excavation.		
		8.00000	17.00000	19.50000			Point lies within an excavation.		
		9.00000	17.00000	19.50000			Point lies within an excavation.		
		10.00000	17.00000	19.50000			Point lies within an excavation.		
		11.00000	17.00000	19.50000			Point lies within an excavation.		
		12.00000	17.00000	19.50000			Point lies within an excavation.		
		13.00000	17.00000	19.50000			Point lies within an excavation.		
		14.00000	17.00000	19.50000			Point lies within an excavation.		
		15.00000	17.00000	19.50000			Point lies within an excavation.		
		16.00000	17.00000	19.50000			Point lies within an excavation.		
		17.00000	17.00000	19.50000			Point lies within an excavation.		
		18.00000	17.00000	19.50000			Point lies within an excavation.		
		19.00000	17.00000	19.50000			Point lies within an excavation.		
		20.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	17.00000	19.50000			Point lies within an excavation.		
		22.00000	17.00000	19.50000			Point lies within an excavation.		
		23.00000	17.00000	19.50000			Point lies within an excavation.		
		24.00000	17.00000	19.50000			Point lies within an excavation.		
		25.00000	17.00000	19.50000			Point lies within an excavation.		
		26.00000	17.00000	19.50000			Point lies within an excavation.		
		27.00000	17.00000	19.50000			Point lies within an excavation.		
		28.00000	17.00000	19.50000			Point lies within an excavation.		
		29.00000	17.00000	19.50000			Point lies within an excavation.		
		30.00000	17.00000	19.50000			Point lies within an excavation.		
		31.00000	17.00000	19.50000			Point lies within an excavation.		
		32.00000	17.00000	19.50000			Point lies within an excavation.		
		33.00000	17.00000	19.50000			Point lies within an excavation.		
		34.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	17.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	18.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	18.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	18.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	18.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	18.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	18.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	18.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	18.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	18.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	18.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	18.00000	19.50000	1.12500	0.0	0.14956	-	-
		-14.00000	18.00000	19.50000	1.50000	0.0	0.48501	-	-
		-13.00000	18.00000	19.50000	1.87500	0.0	0.87237	-	-
		-12.00000	18.00000	19.50000	2.25000	0.0	1.3213	-	-
		-11.00000	18.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	18.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	18.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	18.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	18.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	18.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	18.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	18.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	18.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	18.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	18.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	18.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	18.00000	19.50000			Point lies within an excavation.		
		2.00000	18.00000	19.50000			Point lies within an excavation.		
		3.00000	18.00000	19.50000			Point lies within an excavation.		
		4.00000	18.00000	19.50000			Point lies within an excavation.		
		5.00000	18.00000	19.50000			Point lies within an excavation.		
		6.00000	18.00000	19.50000			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
	7.00000	18.00000	19.50000					Point lies within an excavation.	
	8.00000	18.00000	19.50000					Point lies within an excavation.	
	9.00000	18.00000	19.50000					Point lies within an excavation.	
	10.00000	18.00000	19.50000					Point lies within an excavation.	
	11.00000	18.00000	19.50000					Point lies within an excavation.	
	12.00000	18.00000	19.50000					Point lies within an excavation.	
	13.00000	18.00000	19.50000					Point lies within an excavation.	
	14.00000	18.00000	19.50000					Point lies within an excavation.	
	15.00000	18.00000	19.50000					Point lies within an excavation.	
	16.00000	18.00000	19.50000					Point lies within an excavation.	
	17.00000	18.00000	19.50000					Point lies within an excavation.	
	18.00000	18.00000	19.50000					Point lies within an excavation.	
	19.00000	18.00000	19.50000					Point lies within an excavation.	
	20.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	21.00000	18.00000	19.50000					Point lies within an excavation.	
	22.00000	18.00000	19.50000					Point lies within an excavation.	
	23.00000	18.00000	19.50000					Point lies within an excavation.	
	24.00000	18.00000	19.50000					Point lies within an excavation.	
	25.00000	18.00000	19.50000					Point lies within an excavation.	
	26.00000	18.00000	19.50000					Point lies within an excavation.	
	27.00000	18.00000	19.50000					Point lies within an excavation.	
	28.00000	18.00000	19.50000					Point lies within an excavation.	
	29.00000	18.00000	19.50000					Point lies within an excavation.	
	30.00000	18.00000	19.50000					Point lies within an excavation.	
	31.00000	18.00000	19.50000					Point lies within an excavation.	
	32.00000	18.00000	19.50000					Point lies within an excavation.	
	33.00000	18.00000	19.50000					Point lies within an excavation.	
	34.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	35.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	36.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	37.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	38.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	39.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	40.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	41.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	42.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	43.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	44.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	45.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	46.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	47.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	48.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	49.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	50.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	51.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	52.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	53.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	54.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	55.00000	18.00000	19.50000		0.0	0.0	0.0	-	-
	-25.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	-24.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	-23.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	-22.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	-21.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	-20.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	-19.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	-18.00000	19.00000	19.50000		0.0	0.0038642		-	-
	-17.00000	19.00000	19.50000		0.37500	0.0	0.061035	-	-
	-16.00000	19.00000	19.50000		0.75000	0.0	0.099421	-	-
	-15.00000	19.00000	19.50000		1.12500	0.0	0.149556	-	-
	-14.00000	19.00000	19.50000		1.50000	0.0	0.48501	-	-
	-13.00000	19.00000	19.50000		1.87500	0.0	0.87237	-	-
	-12.00000	19.00000	19.50000		2.25000	0.0	1.3213	-	-
	-11.00000	19.00000	19.50000		2.7141	0.0	1.8344	-	-
	-10.00000	19.00000	19.50000		3.4393	0.0	2.4075	-	-
	-9.00000	19.00000	19.50000		4.1693	0.0	3.0291	-	-
	-8.00000	19.00000	19.50000		4.9152	0.0	3.6812	-	-
	-7.00000	19.00000	19.50000		5.6885	0.0	4.3385	-	-
	-6.00000	19.00000	19.50000		6.5004	0.0	4.9688	-	-
	-5.00000	19.00000	19.50000		7.3624	0.0	5.5330	-	-
	-4.00000	19.00000	19.50000		8.2856	0.0	5.9949	-	-
	-3.00000	19.00000	19.50000		9.2814	0.0	6.2716	-	-
	-2.00000	19.00000	19.50000		10.361	0.0	6.3329	-	-
	-1.00000	19.00000	19.50000		11.536	0.0	6.1019	-	-
	0.00000	19.00000	19.50000		12.818	0.0	5.5046	-	-
	1.00000	19.00000	19.50000					Point lies within an excavation.	
	2.00000	19.00000	19.50000					Point lies within an excavation.	
	3.00000	19.00000	19.50000					Point lies within an excavation.	
	4.00000	19.00000	19.50000					Point lies within an excavation.	
	5.00000	19.00000	19.50000					Point lies within an excavation.	
	6.00000	19.00000	19.50000					Point lies within an excavation.	
	7.00000	19.00000	19.50000					Point lies within an excavation.	
	8.00000	19.00000	19.50000					Point lies within an excavation.	
	9.00000	19.00000	19.50000					Point lies within an excavation.	
	10.00000	19.00000	19.50000					Point lies within an excavation.	
	11.00000	19.00000	19.50000					Point lies within an excavation.	
	12.00000	19.00000	19.50000					Point lies within an excavation.	
	13.00000	19.00000	19.50000					Point lies within an excavation.	
	14.00000	19.00000	19.50000					Point lies within an excavation.	
	15.00000	19.00000	19.50000					Point lies within an excavation.	
	16.00000	19.00000	19.50000					Point lies within an excavation.	
	17.00000	19.00000	19.50000					Point lies within an excavation.	
	18.00000	19.00000	19.50000					Point lies within an excavation.	
	19.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	20.00000	19.00000	19.50000					Point lies within an excavation.	
	21.00000	19.00000	19.50000					Point lies within an excavation.	
	22.00000	19.00000	19.50000					Point lies within an excavation.	
	23.00000	19.00000	19.50000					Point lies within an excavation.	
	24.00000	19.00000	19.50000					Point lies within an excavation.	
	25.00000	19.00000	19.50000					Point lies within an excavation.	
	26.00000	19.00000	19.50000					Point lies within an excavation.	
	27.00000	19.00000	19.50000					Point lies within an excavation.	
	28.00000	19.00000	19.50000					Point lies within an excavation.	
	29.00000	19.00000	19.50000					Point lies within an excavation.	
	30.00000	19.00000	19.50000					Point lies within an excavation.	
	31.00000	19.00000	19.50000					Point lies within an excavation.	
	32.00000	19.00000	19.50000					Point lies within an excavation.	
	33.00000	19.00000	19.50000					Point lies within an excavation.	
	34.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	35.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	36.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	37.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	38.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	39.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	40.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	41.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	42.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	43.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	44.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	45.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	46.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	47.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	48.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	49.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	50.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	51.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	52.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	53.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	54.00000	19.00000	19.50000		0.0	0.0	0.0	-	-
	55.00000	19.00000	19.50000		0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-25.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	20.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	20.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	20.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	20.00000	19.50000	1.1250	0.0	0.14956	-	-
		-14.00000	20.00000	19.50000	1.5000	0.0	0.48501	-	-
		-13.00000	20.00000	19.50000	1.8750	0.0	0.87237	-	-
		-12.00000	20.00000	19.50000	2.2500	0.0	1.3213	-	-
		-11.00000	20.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	20.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	20.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	20.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	20.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	20.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	20.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	20.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	20.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	20.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	20.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	20.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	20.00000	19.50000			Point lies within an excavation.		
		2.00000	20.00000	19.50000			Point lies within an excavation.		
		3.00000	20.00000	19.50000			Point lies within an excavation.		
		4.00000	20.00000	19.50000			Point lies within an excavation.		
		5.00000	20.00000	19.50000			Point lies within an excavation.		
		6.00000	20.00000	19.50000			Point lies within an excavation.		
		7.00000	20.00000	19.50000			Point lies within an excavation.		
		8.00000	20.00000	19.50000			Point lies within an excavation.		
		9.00000	20.00000	19.50000			Point lies within an excavation.		
		10.00000	20.00000	19.50000			Point lies within an excavation.		
		11.00000	20.00000	19.50000			Point lies within an excavation.		
		12.00000	20.00000	19.50000			Point lies within an excavation.		
		13.00000	20.00000	19.50000			Point lies within an excavation.		
		14.00000	20.00000	19.50000			Point lies within an excavation.		
		15.00000	20.00000	19.50000			Point lies within an excavation.		
		16.00000	20.00000	19.50000			Point lies within an excavation.		
		17.00000	20.00000	19.50000			Point lies within an excavation.		
		18.00000	20.00000	19.50000			Point lies within an excavation.		
		19.00000	20.00000	19.50000			Point lies within an excavation.		
		20.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	20.00000	19.50000			Point lies within an excavation.		
		22.00000	20.00000	19.50000			Point lies within an excavation.		
		23.00000	20.00000	19.50000			Point lies within an excavation.		
		24.00000	20.00000	19.50000			Point lies within an excavation.		
		25.00000	20.00000	19.50000			Point lies within an excavation.		
		26.00000	20.00000	19.50000			Point lies within an excavation.		
		27.00000	20.00000	19.50000			Point lies within an excavation.		
		28.00000	20.00000	19.50000			Point lies within an excavation.		
		29.00000	20.00000	19.50000			Point lies within an excavation.		
		30.00000	20.00000	19.50000			Point lies within an excavation.		
		31.00000	20.00000	19.50000			Point lies within an excavation.		
		32.00000	20.00000	19.50000			Point lies within an excavation.		
		33.00000	20.00000	19.50000			Point lies within an excavation.		
		34.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	20.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	21.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	21.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	21.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	21.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	21.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	21.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	21.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	21.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	21.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	21.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	21.00000	19.50000	1.1250	0.0	0.14956	-	-
		-14.00000	21.00000	19.50000	1.5000	0.0	0.48501	-	-
		-13.00000	21.00000	19.50000	1.8750	0.0	0.87237	-	-
		-12.00000	21.00000	19.50000	2.2500	0.0	1.3213	-	-
		-11.00000	21.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	21.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	21.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	21.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	21.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	21.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	21.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	21.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	21.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	21.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	21.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	21.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	21.00000	19.50000			Point lies within an excavation.		
		2.00000	21.00000	19.50000			Point lies within an excavation.		
		3.00000	21.00000	19.50000			Point lies within an excavation.		
		4.00000	21.00000	19.50000			Point lies within an excavation.		
		5.00000	21.00000	19.50000			Point lies within an excavation.		
		6.00000	21.00000	19.50000			Point lies within an excavation.		
		7.00000	21.00000	19.50000			Point lies within an excavation.		
		8.00000	21.00000	19.50000			Point lies within an excavation.		
		9.00000	21.00000	19.50000			Point lies within an excavation.		
		10.00000	21.00000	19.50000			Point lies within an excavation.		
		11.00000	21.00000	19.50000			Point lies within an excavation.		
		12.00000	21.00000	19.50000			Point lies within an excavation.		
		13.00000	21.00000	19.50000			Point lies within an excavation.		
		14.00000	21.00000	19.50000			Point lies within an excavation.		
		15.00000	21.00000	19.50000			Point lies within an excavation.		
		16.00000	21.00000	19.50000			Point lies within an excavation.		
		17.00000	21.00000	19.50000			Point lies within an excavation.		
		18.00000	21.00000	19.50000			Point lies within an excavation.		
		19.00000	21.00000	19.50000			Point lies within an excavation.		
		20.00000	21.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	21.00000	19.50000			Point lies within an excavation.		
		22.00000	21.00000	19.50000			Point lies within an excavation.		
		23.00000	21.00000	19.50000			Point lies within an excavation.		



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement to x Axis
24.00000	21.00000	19.50000						Point lies within an excavation.	
25.00000	21.00000	19.50000						Point lies within an excavation.	
26.00000	21.00000	19.50000						Point lies within an excavation.	
27.00000	21.00000	19.50000						Point lies within an excavation.	
28.00000	21.00000	19.50000						Point lies within an excavation.	
29.00000	21.00000	19.50000						Point lies within an excavation.	
30.00000	21.00000	19.50000						Point lies within an excavation.	
31.00000	21.00000	19.50000						Point lies within an excavation.	
32.00000	21.00000	19.50000						Point lies within an excavation.	
33.00000	21.00000	19.50000						Point lies within an excavation.	
34.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
35.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
36.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
37.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
38.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
39.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
40.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
41.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
42.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
43.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
44.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
45.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
46.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
47.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
48.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
49.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
50.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
51.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
52.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
53.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
54.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
55.00000	21.00000	19.50000			0.0	0.0	0.0	-	-
-25.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
-24.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
-23.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
-22.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
-21.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
-20.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
-19.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
-18.00000	22.00000	19.50000			0.0	0.0038642	-	-	-
-17.00000	22.00000	19.50000			0.37500	0.0	0.061035	-	-
-16.00000	22.00000	19.50000			0.75000	0.0	0.099421	-	-
-15.00000	22.00000	19.50000			1.12500	0.0	0.14956	-	-
-14.00000	22.00000	19.50000			1.50000	0.0	0.48501	-	-
-13.00000	22.00000	19.50000			1.87500	0.0	0.87237	-	-
-12.00000	22.00000	19.50000			2.25000	0.0	1.3213	-	-
-11.00000	22.00000	19.50000			2.7141	0.0	1.8344	-	-
-10.00000	22.00000	19.50000			3.4393	0.0	2.4075	-	-
-9.00000	22.00000	19.50000			4.1693	0.0	3.0291	-	-
-8.00000	22.00000	19.50000			4.9152	0.0	3.6812	-	-
-7.00000	22.00000	19.50000			5.6885	0.0	4.3395	-	-
-6.00000	22.00000	19.50000			6.5004	0.0	4.9688	-	-
-5.00000	22.00000	19.50000			7.3624	0.0	5.5330	-	-
-4.00000	22.00000	19.50000			8.2856	0.0	5.9849	-	-
-3.00000	22.00000	19.50000			9.2814	0.0	6.2716	-	-
-2.00000	22.00000	19.50000			10.361	0.0	6.3229	-	-
-1.00000	22.00000	19.50000			11.536	0.0	6.1019	-	-
0.00000	22.00000	19.50000			12.818	0.0	5.5046	-	-
1.00000	22.00000	19.50000						Point lies within an excavation.	
2.00000	22.00000	19.50000						Point lies within an excavation.	
3.00000	22.00000	19.50000						Point lies within an excavation.	
4.00000	22.00000	19.50000						Point lies within an excavation.	
5.00000	22.00000	19.50000						Point lies within an excavation.	
6.00000	22.00000	19.50000						Point lies within an excavation.	
7.00000	22.00000	19.50000						Point lies within an excavation.	
8.00000	22.00000	19.50000						Point lies within an excavation.	
9.00000	22.00000	19.50000						Point lies within an excavation.	
10.00000	22.00000	19.50000						Point lies within an excavation.	
11.00000	22.00000	19.50000						Point lies within an excavation.	
12.00000	22.00000	19.50000						Point lies within an excavation.	
13.00000	22.00000	19.50000						Point lies within an excavation.	
14.00000	22.00000	19.50000						Point lies within an excavation.	
15.00000	22.00000	19.50000						Point lies within an excavation.	
16.00000	22.00000	19.50000						Point lies within an excavation.	
17.00000	22.00000	19.50000						Point lies within an excavation.	
18.00000	22.00000	19.50000						Point lies within an excavation.	
19.00000	22.00000	19.50000						Point lies within an excavation.	
20.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
21.00000	22.00000	19.50000						Point lies within an excavation.	
22.00000	22.00000	19.50000						Point lies within an excavation.	
23.00000	22.00000	19.50000						Point lies within an excavation.	
24.00000	22.00000	19.50000						Point lies within an excavation.	
25.00000	22.00000	19.50000						Point lies within an excavation.	
26.00000	22.00000	19.50000						Point lies within an excavation.	
27.00000	22.00000	19.50000						Point lies within an excavation.	
28.00000	22.00000	19.50000						Point lies within an excavation.	
29.00000	22.00000	19.50000						Point lies within an excavation.	
30.00000	22.00000	19.50000						Point lies within an excavation.	
31.00000	22.00000	19.50000						Point lies within an excavation.	
32.00000	22.00000	19.50000						Point lies within an excavation.	
33.00000	22.00000	19.50000						Point lies within an excavation.	
34.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
35.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
36.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
37.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
38.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
39.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
40.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
41.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
42.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
43.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
44.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
45.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
46.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
47.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
48.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
49.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
50.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
51.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
52.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
53.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
54.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
55.00000	22.00000	19.50000			0.0	0.0	0.0	-	-
-25.00000	23.00000	19.50000			0.0	0.0	0.0	-	-
-24.00000	23.00000	19.50000			0.0	0.0	0.0	-	-
-23.00000	23.00000	19.50000			0.0	0.0	0.0	-	-
-22.00000	23.00000	19.50000			0.0	0.0	0.0	-	-
-21.00000	23.00000	19.50000			0.0	0.0	0.0	-	-
-20.00000	23.00000	19.50000			0.0	0.0	0.0	-	-
-19.00000	23.00000	19.50000			0.0	0.0	0.0038642	-	-
-18.00000	23.00000	19.50000			0.0	0.0	0.061035	-	-
-17.00000	23.00000	19.50000			0.37500	0.0	0.099421	-	-
-16.00000	23.00000	19.50000			0.75000	0.0	0.14956	-	-
-15.00000	23.00000	19.50000			1.12500	0.0	0.48501	-	-
-14.00000	23.00000	19.50000			1.50000	0.0	0.87237	-	-
-13.00000	23.00000	19.50000			1.87500	0.0	1.3213	-	-
-12.00000	23.00000	19.50000			2.25000	0.0	1.8344	-	-
-11.00000	23.00000	19.50000			2.7141	0.0	2.4075	-	-
-10.00000	23.00000	19.50000			3.4393	0.0	3.0291	-	-
-9.00000	23.00000	19.50000			4.1693	0.0		-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-8.00000	23.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	23.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	23.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	23.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	23.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	23.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	23.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	23.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	23.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	23.00000	19.50000				Point lies within an excavation.	
		2.00000	23.00000	19.50000				Point lies within an excavation.	
		3.00000	23.00000	19.50000				Point lies within an excavation.	
		4.00000	23.00000	19.50000				Point lies within an excavation.	
		5.00000	23.00000	19.50000				Point lies within an excavation.	
		6.00000	23.00000	19.50000				Point lies within an excavation.	
		7.00000	23.00000	19.50000				Point lies within an excavation.	
		8.00000	23.00000	19.50000				Point lies within an excavation.	
		9.00000	23.00000	19.50000				Point lies within an excavation.	
		10.00000	23.00000	19.50000				Point lies within an excavation.	
		11.00000	23.00000	19.50000				Point lies within an excavation.	
		12.00000	23.00000	19.50000				Point lies within an excavation.	
		13.00000	23.00000	19.50000				Point lies within an excavation.	
		14.00000	23.00000	19.50000				Point lies within an excavation.	
		15.00000	23.00000	19.50000				Point lies within an excavation.	
		16.00000	23.00000	19.50000				Point lies within an excavation.	
		17.00000	23.00000	19.50000				Point lies within an excavation.	
		18.00000	23.00000	19.50000				Point lies within an excavation.	
		19.00000	23.00000	19.50000				Point lies within an excavation.	
		20.00000	23.00000	19.50000	0.0	0.0	-	-	-
		21.00000	23.00000	19.50000				Point lies within an excavation.	
		22.00000	23.00000	19.50000				Point lies within an excavation.	
		23.00000	23.00000	19.50000				Point lies within an excavation.	
		24.00000	23.00000	19.50000				Point lies within an excavation.	
		25.00000	23.00000	19.50000				Point lies within an excavation.	
		26.00000	23.00000	19.50000				Point lies within an excavation.	
		27.00000	23.00000	19.50000				Point lies within an excavation.	
		28.00000	23.00000	19.50000				Point lies within an excavation.	
		29.00000	23.00000	19.50000				Point lies within an excavation.	
		30.00000	23.00000	19.50000				Point lies within an excavation.	
		31.00000	23.00000	19.50000				Point lies within an excavation.	
		32.00000	23.00000	19.50000				Point lies within an excavation.	
		33.00000	23.00000	19.50000				Point lies within an excavation.	
		34.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	23.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	24.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	24.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	24.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	24.00000	19.50000	1.1250	0.0	0.14956	-	-
		-14.00000	24.00000	19.50000	1.5000	0.0	0.48501	-	-
		-13.00000	24.00000	19.50000	1.8750	0.0	0.87237	-	-
		-12.00000	24.00000	19.50000	2.2500	0.0	1.3213	-	-
		-11.00000	24.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	24.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	24.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	24.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	24.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	24.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	24.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	24.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	24.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	24.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	24.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	24.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	24.00000	19.50000				Point lies within an excavation.	
		2.00000	24.00000	19.50000				Point lies within an excavation.	
		3.00000	24.00000	19.50000				Point lies within an excavation.	
		4.00000	24.00000	19.50000				Point lies within an excavation.	
		5.00000	24.00000	19.50000				Point lies within an excavation.	
		6.00000	24.00000	19.50000				Point lies within an excavation.	
		7.00000	24.00000	19.50000				Point lies within an excavation.	
		8.00000	24.00000	19.50000				Point lies within an excavation.	
		9.00000	24.00000	19.50000				Point lies within an excavation.	
		10.00000	24.00000	19.50000				Point lies within an excavation.	
		11.00000	24.00000	19.50000				Point lies within an excavation.	
		12.00000	24.00000	19.50000				Point lies within an excavation.	
		13.00000	24.00000	19.50000				Point lies within an excavation.	
		14.00000	24.00000	19.50000				Point lies within an excavation.	
		15.00000	24.00000	19.50000				Point lies within an excavation.	
		16.00000	24.00000	19.50000				Point lies within an excavation.	
		17.00000	24.00000	19.50000				Point lies within an excavation.	
		18.00000	24.00000	19.50000				Point lies within an excavation.	
		19.00000	24.00000	19.50000				Point lies within an excavation.	
		20.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	24.00000	19.50000				Point lies within an excavation.	
		22.00000	24.00000	19.50000				Point lies within an excavation.	
		23.00000	24.00000	19.50000				Point lies within an excavation.	
		24.00000	24.00000	19.50000				Point lies within an excavation.	
		25.00000	24.00000	19.50000				Point lies within an excavation.	
		26.00000	24.00000	19.50000				Point lies within an excavation.	
		27.00000	24.00000	19.50000				Point lies within an excavation.	
		28.00000	24.00000	19.50000				Point lies within an excavation.	
		29.00000	24.00000	19.50000				Point lies within an excavation.	
		30.00000	24.00000	19.50000				Point lies within an excavation.	
		31.00000	24.00000	19.50000				Point lies within an excavation.	
		32.00000	24.00000	19.50000				Point lies within an excavation.	
		33.00000	24.00000	19.50000				Point lies within an excavation.	
		34.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	24.00000	19.50000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		41.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	24.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	25.00000	19.50000	0.0	0.0	0.0038642	-	-
		-17.00000	25.00000	19.50000	0.37500	0.0	0.061035	-	-
		-16.00000	25.00000	19.50000	0.75000	0.0	0.099421	-	-
		-15.00000	25.00000	19.50000	1.12500	0.0	0.14956	-	-
		-14.00000	25.00000	19.50000	1.50000	0.0	0.48501	-	-
		-13.00000	25.00000	19.50000	1.87500	0.0	0.87237	-	-
		-12.00000	25.00000	19.50000	2.25000	0.0	1.3213	-	-
		-11.00000	25.00000	19.50000	2.7141	0.0	1.8344	-	-
		-10.00000	25.00000	19.50000	3.4393	0.0	2.4075	-	-
		-9.00000	25.00000	19.50000	4.1693	0.0	3.0291	-	-
		-8.00000	25.00000	19.50000	4.9152	0.0	3.6812	-	-
		-7.00000	25.00000	19.50000	5.6885	0.0	4.3385	-	-
		-6.00000	25.00000	19.50000	6.5004	0.0	4.9688	-	-
		-5.00000	25.00000	19.50000	7.3624	0.0	5.5330	-	-
		-4.00000	25.00000	19.50000	8.2856	0.0	5.9849	-	-
		-3.00000	25.00000	19.50000	9.2814	0.0	6.2716	-	-
		-2.00000	25.00000	19.50000	10.361	0.0	6.3329	-	-
		-1.00000	25.00000	19.50000	11.536	0.0	6.1019	-	-
		0.00000	25.00000	19.50000	12.818	0.0	5.5046	-	-
		1.00000	25.00000	19.50000			Point lies within an excavation.		
		2.00000	25.00000	19.50000			Point lies within an excavation.		
		3.00000	25.00000	19.50000			Point lies within an excavation.		
		4.00000	25.00000	19.50000			Point lies within an excavation.		
		5.00000	25.00000	19.50000			Point lies within an excavation.		
		6.00000	25.00000	19.50000			Point lies within an excavation.		
		7.00000	25.00000	19.50000			Point lies within an excavation.		
		8.00000	25.00000	19.50000			Point lies within an excavation.		
		9.00000	25.00000	19.50000			Point lies within an excavation.		
		10.00000	25.00000	19.50000			Point lies within an excavation.		
		11.00000	25.00000	19.50000			Point lies within an excavation.		
		12.00000	25.00000	19.50000			Point lies within an excavation.		
		13.00000	25.00000	19.50000			Point lies within an excavation.		
		14.00000	25.00000	19.50000			Point lies within an excavation.		
		15.00000	25.00000	19.50000			Point lies within an excavation.		
		16.00000	25.00000	19.50000			Point lies within an excavation.		
		17.00000	25.00000	19.50000			Point lies within an excavation.		
		18.00000	25.00000	19.50000			Point lies within an excavation.		
		19.00000	25.00000	19.50000			Point lies within an excavation.		
		20.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	25.00000	19.50000			Point lies within an excavation.		
		22.00000	25.00000	19.50000			Point lies within an excavation.		
		23.00000	25.00000	19.50000			Point lies within an excavation.		
		24.00000	25.00000	19.50000			Point lies within an excavation.		
		25.00000	25.00000	19.50000			Point lies within an excavation.		
		26.00000	25.00000	19.50000			Point lies within an excavation.		
		27.00000	25.00000	19.50000			Point lies within an excavation.		
		28.00000	25.00000	19.50000			Point lies within an excavation.		
		29.00000	25.00000	19.50000			Point lies within an excavation.		
		30.00000	25.00000	19.50000			Point lies within an excavation.		
		31.00000	25.00000	19.50000			Point lies within an excavation.		
		32.00000	25.00000	19.50000			Point lies within an excavation.		
		33.00000	25.00000	19.50000			Point lies within an excavation.		
		34.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		35.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	25.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	26.00000	19.50000	0.0	0.0	0.0025890	-	-
		-17.00000	26.00000	19.50000	0.25125	0.0	0.040894	-	-
		-16.00000	26.00000	19.50000	0.50250	0.0	0.066612	-	-
		-15.00000	26.00000	19.50000	0.75375	0.0	0.10020	-	-
		-14.00000	26.00000	19.50000	1.0050	0.0	0.32495	-	-
		-13.00000	26.00000	19.50000	1.2562	0.0	0.58449	-	-
		-12.00000	26.00000	19.50000	1.5075	0.0	0.88526	-	-
		-11.00000	26.00000	19.50000	1.8184	0.0	1.2291	-	-
		-10.00000	26.00000	19.50000	2.3044	0.0	1.6130	-	-
		-9.00000	26.00000	19.50000	2.7934	0.0	2.0295	-	-
		-8.00000	26.00000	19.50000	3.2932	0.0	2.4664	-	-
		-7.00000	26.00000	19.50000	3.8113	0.0	2.9068	-	-
		-6.00000	26.00000	19.50000	4.3553	0.0	3.3291	-	-
		-5.00000	26.00000	19.50000	4.9328	0.0	3.7071	-	-
		-4.00000	26.00000	19.50000	5.5513	0.0	4.0099	-	-
		-3.00000	26.00000	19.50000	6.2185	0.0	4.2020	-	-
		-2.00000	26.00000	19.50000	6.9419	0.0	4.2431	-	-
		-1.00000	26.00000	19.50000	7.7292	0.0	4.0883	-	-
		0.00000	26.00000	19.50000	4.2939	-3.0150	3.1854	-	-
		1.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		2.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		3.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		4.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		5.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		6.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		7.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		8.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		9.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		10.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		11.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		12.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		13.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		14.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		15.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		16.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		17.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		18.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		19.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		20.00000	26.00000	19.50000	0.0	-6.0300	2.6827	-	-
		21.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		22.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		23.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		24.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		25.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		26.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		27.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		28.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		29.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		30.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		31.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		32.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		33.00000	26.00000	19.50000	0.0	-9.0000	4.0040	-	-
		34.00000	26.00000	19.50000	0.0	-3.0150	1.3413	-	-
		35.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	26.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	27.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	27.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	27.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	27.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	27.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	27.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	27.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	27.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	27.00000	19.50000	0.23243	-0.0068074	0.039299	-	-
		-16.00000	27.00000	19.50000	0.47001	-0.014669	0.064458	-	-
		-15.00000	27.00000	19.50000	0.70578	-0.023573	0.096654	-	-
		-14.00000	27.00000	19.50000	0.93935	-0.033743	0.30363	-	-
		-13.00000	27.00000	19.50000	1.1702	-0.045468	0.54757	-	-
		-12.00000	27.00000	19.50000	1.3977	-0.059133	0.82890	-	-
		-11.00000	27.00000	19.50000	1.6664	-0.075261	1.1485	-	-
		-10.00000	27.00000	19.50000	2.0987	-0.094583	1.5024	-	-
		-9.00000	27.00000	19.50000	2.5218	-0.11815	1.8817	-	-
		-8.00000	27.00000	19.50000	2.9379	-0.14751	2.2723	-	-
		-7.00000	27.00000	19.50000	3.3463	-0.18511	2.6544	-	-
		-6.00000	27.00000	19.50000	3.7411	-0.24662	3.0042	-	-
		-5.00000	27.00000	19.50000	4.1060	-0.33856	3.2890	-	-
		-4.00000	27.00000	19.50000	4.4026	-0.47407	3.4703	-	-
		-3.00000	27.00000	19.50000	4.5384	-0.69234	3.4955	-	-
		-2.00000	27.00000	19.50000	4.2620	-1.00545	3.2759	-	-
		-1.00000	27.00000	19.50000	2.7593	-1.9996	2.6077	-	-
		0.00000	27.00000	19.50000	0.0	-5.5554	2.8171	-	-
		1.00000	27.00000	19.50000	0.0	-8.2917	4.2046	-	-
		2.00000	27.00000	19.50000	0.0	-8.2917	4.2046	-	-
		3.00000	27.00000	19.50000	0.0	-8.2985	4.2057	-	-
		4.00000	27.00000	19.50000	0.0	-8.3063	4.2065	-	-
		5.00000	27.00000	19.50000	0.0	-8.3152	4.2077	-	-
		6.00000	27.00000	19.50000	0.0	-8.3254	4.2098	-	-
		7.00000	27.00000	19.50000	0.0	-8.3371	4.2135	-	-
		8.00000	27.00000	19.50000	0.0	-8.3508	4.2194	-	-
		9.00000	27.00000	19.50000	0.0	-8.3669	4.2283	-	-
		10.00000	27.00000	19.50000	0.0	-8.3862	4.2407	-	-
		11.00000	27.00000	19.50000	0.0	-8.4098	4.2577	-	-
		12.00000	27.00000	19.50000	0.0	-8.4392	4.2800	-	-
		13.00000	27.00000	19.50000	0.0	-8.4768	4.3089	-	-
		14.00000	27.00000	19.50000	0.0	-8.5383	4.3477	-	-
		15.00000	27.00000	19.50000	0.0	-8.6302	4.3997	-	-
		16.00000	27.00000	19.50000	0.0	-8.7657	4.4748	-	-
		17.00000	27.00000	19.50000	0.0	-8.9840	4.5935	-	-
		18.00000	27.00000	19.50000	0.0	-9.3862	4.8037	-	-
		19.00000	27.00000	19.50000	0.0	-10.291	5.2528	-	-
		20.00000	27.00000	19.50000	0.0	-11.111	5.6341	-	-
		21.00000	27.00000	19.50000	0.0	-10.291	5.2528	-	-
		22.00000	27.00000	19.50000	0.0	-9.3862	4.8037	-	-
		23.00000	27.00000	19.50000	0.0	-8.9840	4.5935	-	-
		24.00000	27.00000	19.50000	0.0	-8.7657	4.4748	-	-
		25.00000	27.00000	19.50000	0.0	-8.6302	4.3997	-	-
		26.00000	27.00000	19.50000	0.0	-8.5383	4.3477	-	-
		27.00000	27.00000	19.50000	0.0	-8.4768	4.3089	-	-
		28.00000	27.00000	19.50000	0.0	-8.4392	4.2800	-	-
		29.00000	27.00000	19.50000	0.0	-8.4098	4.2577	-	-
		30.00000	27.00000	19.50000	0.0	-8.3862	4.2407	-	-
		31.00000	27.00000	19.50000	0.0	-8.3669	4.2283	-	-
		32.00000	27.00000	19.50000	0.0	-8.3508	4.2194	-	-
		33.00000	27.00000	19.50000	0.0	-8.3371	4.2135	-	-
		34.00000	27.00000	19.50000	0.0	-5.5892	2.8223	-	-
		35.00000	27.00000	19.50000	0.0	-2.0231	1.0514	-	-
		36.00000	27.00000	19.50000	0.0	-1.1092	0.60108	-	-
		37.00000	27.00000	19.50000	0.0	-0.69915	0.39005	-	-
		38.00000	27.00000	19.50000	0.0	-0.47407	0.27026	-	-
		39.00000	27.00000	19.50000	0.0	-0.33856	0.19512	-	-
		40.00000	27.00000	19.50000	0.0	-0.24662	0.14314	-	-
		41.00000	27.00000	19.50000	0.0	-0.18511	0.10434	-	-
		42.00000	27.00000	19.50000	0.0	-0.14751	0.075436	-	-
		43.00000	27.00000	19.50000	0.0	-0.11815	0.053101	-	-
		44.00000	27.00000	19.50000	0.0	-0.094583	0.036169	-	-
		45.00000	27.00000	19.50000	0.0	-0.075261	0.023696	-	-
		46.00000	27.00000	19.50000	0.0	-0.059133	0.014866	-	-
		47.00000	27.00000	19.50000	0.0	-0.045468	0.0089441	-	-
		48.00000	27.00000	19.50000	0.0	-0.033743	0.0052465	-	-
		49.00000	27.00000	19.50000	0.0	-0.023573	0.0031239	-	-
		50.00000	27.00000	19.50000	0.0	-0.014669	0.0019508	-	-
		51.00000	27.00000	19.50000	0.0	-0.0068074	0.0011182	-	-
		52.00000	27.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	27.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	27.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	27.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	28.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	28.00000	19.50000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
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Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-23.00000	28.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	28.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	28.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	28.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	28.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	28.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	28.00000	19.50000	0.20106	-0.012340	0.036077	-	-
		-16.00000	28.00000	19.50000	0.42445	-0.027839	0.060809	-	-
		-15.00000	28.00000	19.50000	0.64418	-0.045366	0.090623	-	-
		-14.00000	28.00000	19.50000	0.85951	-0.065343	0.26807	-	-
		-13.00000	28.00000	19.50000	1.0694	-0.088319	0.49305	-	-
		-12.00000	28.00000	19.50000	1.2727	-0.11502	0.75083	-	-
		-11.00000	28.00000	19.50000	1.4821	-0.14641	1.0417	-	-
		-10.00000	28.00000	19.50000	1.8602	-0.18383	1.3608	-	-
		-9.00000	28.00000	19.50000	2.2167	-0.22918	1.6985	-	-
		-8.00000	28.00000	19.50000	2.5492	-0.28522	2.0395	-	-
		-7.00000	28.00000	19.50000	2.8500	-0.35611	2.3630	-	-
		-6.00000	28.00000	19.50000	3.1032	-0.46293	2.6436	-	-
		-5.00000	28.00000	19.50000	3.2767	-0.62806	2.8478	-	-
		-4.00000	28.00000	19.50000	3.3095	-0.86074	2.9359	-	-
		-3.00000	28.00000	19.50000	3.0824	-1.2065	2.8593	-	-
		-2.00000	28.00000	19.50000	2.3651	-1.7491	2.5503	-	-
		-1.00000	28.00000	19.50000	1.4903	-3.1300	2.6494	-	-
		0.00000	28.00000	19.50000	0.0	-5.0808	2.7538	-	-
		1.00000	28.00000	19.50000	0.0	-7.5833	4.1102	-	-
		2.00000	28.00000	19.50000	0.0	-7.5833	4.1102	-	-
		3.00000	28.00000	19.50000	0.0	-7.5957	4.1122	-	-
		4.00000	28.00000	19.50000	0.0	-7.6112	4.1139	-	-
		5.00000	28.00000	19.50000	0.0	-7.6287	4.1161	-	-
		6.00000	28.00000	19.50000	0.0	-7.6487	4.1201	-	-
		7.00000	28.00000	19.50000	0.0	-7.6717	4.1270	-	-
		8.00000	28.00000	19.50000	0.0	-7.6983	4.1382	-	-
		9.00000	28.00000	19.50000	0.0	-7.7297	4.1549	-	-
		10.00000	28.00000	19.50000	0.0	-7.7672	4.1786	-	-
		11.00000	28.00000	19.50000	0.0	-7.8125	4.2107	-	-
		12.00000	28.00000	19.50000	0.0	-7.8686	4.2529	-	-
		13.00000	28.00000	19.50000	0.0	-7.9394	4.3073	-	-
		14.00000	28.00000	19.50000	0.0	-8.0463	4.3788	-	-
		15.00000	28.00000	19.50000	0.0	-8.2114	4.4731	-	-
		16.00000	28.00000	19.50000	0.0	-8.4441	4.6029	-	-
		17.00000	28.00000	19.50000	0.0	-8.7898	4.7931	-	-
		18.00000	28.00000	19.50000	0.0	-9.3325	5.0855	-	-
		19.00000	28.00000	19.50000	0.0	-10.713	5.8235	-	-
		20.00000	28.00000	19.50000	0.0	-10.162	5.5076	-	-
		21.00000	28.00000	19.50000	0.0	-10.713	5.8235	-	-
		22.00000	28.00000	19.50000	0.0	-9.3325	5.0855	-	-
		23.00000	28.00000	19.50000	0.0	-8.7898	4.7931	-	-
		24.00000	28.00000	19.50000	0.0	-8.4441	4.6029	-	-
		25.00000	28.00000	19.50000	0.0	-8.2114	4.4731	-	-
		26.00000	28.00000	19.50000	0.0	-8.0463	4.3788	-	-
		27.00000	28.00000	19.50000	0.0	-7.9394	4.3073	-	-
		28.00000	28.00000	19.50000	0.0	-7.8686	4.2529	-	-
		29.00000	28.00000	19.50000	0.0	-7.8125	4.2107	-	-
		30.00000	28.00000	19.50000	0.0	-7.7672	4.1786	-	-
		31.00000	28.00000	19.50000	0.0	-7.7297	4.1549	-	-
		32.00000	28.00000	19.50000	0.0	-7.6983	4.1382	-	-
		33.00000	28.00000	19.50000	0.0	-7.6717	4.1270	-	-
		34.00000	28.00000	19.50000	0.0	-5.1462	2.7637	-	-
		35.00000	28.00000	19.50000	0.0	-3.1754	1.7194	-	-
		36.00000	28.00000	19.50000	0.0	-1.7770	0.97908	-	-
		37.00000	28.00000	19.50000	0.0	-1.2185	0.65808	-	-
		38.00000	28.00000	19.50000	0.0	-0.86074	0.49273	-	-
		39.00000	28.00000	19.50000	0.0	-0.62806	0.36297	-	-
		40.00000	28.00000	19.50000	0.0	-0.46293	0.26865	-	-
		41.00000	28.00000	19.50000	0.0	-0.35611	0.19716	-	-
		42.00000	28.00000	19.50000	0.0	-0.28522	0.14275	-	-
		43.00000	28.00000	19.50000	0.0	-0.22918	0.10052	-	-
		44.00000	28.00000	19.50000	0.0	-0.18383	0.068435	-	-
		45.00000	28.00000	19.50000	0.0	-0.14641	0.044787	-	-
		46.00000	28.00000	19.50000	0.0	-0.11502	0.028067	-	-
		47.00000	28.00000	19.50000	0.0	-0.088319	0.016897	-	-
		48.00000	28.00000	19.50000	0.0	-0.065343	0.0099371	-	-
		49.00000	28.00000	19.50000	0.0	-0.045366	0.0059622	-	-
		50.00000	28.00000	19.50000	0.0	-0.027839	0.0037429	-	-
		51.00000	28.00000	19.50000	0.0	-0.012340	0.0020862	-	-
		52.00000	28.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	28.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	28.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	28.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	29.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	29.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	29.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	29.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	29.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	29.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	29.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	29.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	29.00000	19.50000	0.15943	-0.015373	0.031130	-	-
		-16.00000	29.00000	19.50000	0.36847	-0.038080	0.055881	-	-
		-15.00000	29.00000	19.50000	0.57212	-0.063688	0.082741	-	-
		-14.00000	29.00000	19.50000	0.76927	-0.092781	0.22167	-	-
		-13.00000	29.00000	19.50000	0.95854	-0.12611	0.42547	-	-
		-12.00000	29.00000	19.50000	1.1381	-0.16465	0.65701	-	-
		-11.00000	29.00000	19.50000	1.3055	-0.20970	0.91621	-	-
		-10.00000	29.00000	19.50000	1.6042	-0.26300	1.1981	-	-
		-9.00000	29.00000	19.50000	1.8985	-0.32698	1.4926	-	-
		-8.00000	29.00000	19.50000	2.1549	-0.40495	1.7847	-	-
		-7.00000	29.00000	19.50000	2.3619	-0.50187	2.0535	-	-
		-6.00000	29.00000	19.50000	2.4990	-0.62699	2.2732	-	-
		-5.00000	29.00000	19.50000	2.5308	-0.83770	2.4174	-	-
		-4.00000	29.00000	19.50000	2.3993	-1.1180	2.4468	-	-
		-3.00000	29.00000	19.50000	2.0138	-1.4987	2.3277	-	-
		-2.00000	29.00000	19.50000	1.6226	-2.2920	2.4431	-	-
		-1.00000	29.00000	19.50000	0.93346	-3.3661	2.5299	-	-
		0.00000	29.00000	19.50000	0.0	-4.6662	2.5789	-	-
		1.00000	29.00000	19.50000	0.0	-6.8750	3.8491	-	-
		2.00000	29.00000	19.50000	0.0	-6.8750	3.8491	-	-
		3.00000	29.00000	19.50000	0.0	-6.8904	3.8518	-	-
		4.00000	29.00000	19.50000	0.0	-6.9131	3.8543	-	-
		5.00000	29.00000	19.50000	0.0	-6.9387	3.8574	-	-
		6.00000	29.00000	19.50000	0.0	-6.9678	3.8627	-	-
		7.00000	29.00000	19.50000	0.0	-7.0011	3.8721	-	-
		8.00000	29.00000	19.50000	0.0	-7.0397	3.8873	-	-
		9.00000	29.00000	19.50000	0.0	-7.0847	3.9102	-	-
		10.00000	29.00000	19.50000	0.0	-7.1380	3.9426	-	-
		11.00000	29.00000	19.50000	0.0	-7.2020	3.9866	-	-
		12.00000	29.00000	19.50000	0.0	-7.2800	4.0444	-	-
		13.00000	29.00000	19.50000	0.0	-7.3769	4.1183	-	-
		14.00000	29.00000	19.50000	0.0	-7.5020	4.2117	-	-
		15.00000	29.00000	19.50000	0.0	-7.7127	4.3348	-	-
		16.00000	29.00000	19.50000	0.0	-7.9930	4.4928	-	-
		17.00000	29.00000	19.50000	0.0	-8.3737	4.7047	-	-
		18.00000	29.00000	19.50000	0.0	-9.1670	5.1465	-	-
		19.00000	29.00000	19.50000	0.0	-10.241	5.7400	-	-
		20.00000	29.00000	19.50000	0.0	-9.2125	5.1578	-	-
		21.00000	29.00000	19.50000	0.0	-10.241	5.7400	-	-
		22.00000	29.00000	19.50000	0.0	-9.1670	5.1465	-	-
		23.00000	29.00000	19.50000	0.0	-8.3737	4.7047	-	-
		24.00000	29.00000	19.50000	0.0	-7.9930	4.4928	-	-
		25.00000	29.00000	19.50000	0.0	-7.7127	4.3348	-	-

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Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.	Coordinates			Displacements			Angle of Line			
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		26.00000	29.00000	19.50000	0.0	-7.5020	4.2117	-	-	-
		27.00000	29.00000	19.50000	0.0	-7.3769	4.1183	-	-	-
		28.00000	29.00000	19.50000	0.0	-7.2800	4.0444	-	-	-
		29.00000	29.00000	19.50000	0.0	-7.2020	3.9866	-	-	-
		30.00000	29.00000	19.50000	0.0	-7.1380	3.9426	-	-	-
		31.00000	29.00000	19.50000	0.0	-7.0847	3.9102	-	-	-
		32.00000	29.00000	19.50000	0.0	-7.0397	3.8873	-	-	-
		33.00000	29.00000	19.50000	0.0	-7.0011	3.8721	-	-	-
		34.00000	29.00000	19.50000	0.0	-4.6990	2.5925	-	-	-
		35.00000	29.00000	19.50000	0.0	-3.4298	1.8993	-	-	-
		36.00000	29.00000	19.50000	0.0	-2.3300	1.3027	-	-	-
		37.00000	29.00000	19.50000	0.0	-1.5141	0.85838	-	-	-
		38.00000	29.00000	19.50000	0.0	-1.1180	0.64371	-	-	-
		39.00000	29.00000	19.50000	0.0	-0.83770	0.48575	-	-	-
		40.00000	29.00000	19.50000	0.0	-0.62699	0.36259	-	-	-
		41.00000	29.00000	19.50000	0.0	-0.50187	0.26919	-	-	-
		42.00000	29.00000	19.50000	0.0	-0.40495	0.19529	-	-	-
		43.00000	29.00000	19.50000	0.0	-0.32696	0.13756	-	-	-
		44.00000	29.00000	19.50000	0.0	-0.26300	0.093553	-	-	-
		45.00000	29.00000	19.50000	0.0	-0.20970	0.061114	-	-	-
		46.00000	29.00000	19.50000	0.0	-0.16465	0.038236	-	-	-
		47.00000	29.00000	19.50000	0.0	-0.12611	0.023019	-	-	-
		48.00000	29.00000	19.50000	0.0	-0.092781	0.013632	-	-	-
		49.00000	29.00000	19.50000	0.0	-0.063688	0.0082880	-	-	-
		50.00000	29.00000	19.50000	0.0	-0.038080	0.0052341	-	-	-
		51.00000	29.00000	19.50000	0.0	-0.015373	0.0027379	-	-	-
		52.00000	29.00000	19.50000	0.0	0.0	0.0	-	-	-
		53.00000	29.00000	19.50000	0.0	0.0	0.0	-	-	-
		54.00000	29.00000	19.50000	0.0	0.0	0.0	-	-	-
		55.00000	29.00000	19.50000	0.0	0.0	0.0	-	-	-
		-25.00000	30.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		-24.00000	30.00000	19.50000	0.0	0.0	0.0	-	-	-
		-23.00000	30.00000	19.50000	0.0	0.0	0.0	-	-	-
		-22.00000	30.00000	19.50000	0.0	0.0	0.0	-	-	-
		-21.00000	30.00000	19.50000	0.0	0.0	0.0	-	-	-
		-20.00000	30.00000	19.50000	0.0	0.0	0.0	-	-	0.0
		-19.00000	30.00000	19.50000	0.0	0.0	0.0	-	-	-
		-18.00000	30.00000	19.50000	0.0	0.0	0.0	-	-	-
		-17.00000	30.00000	19.50000	0.10978	-0.014778	0.024144	-	-	-
		-16.00000	30.00000	19.50000	0.30472	-0.044085	0.049843	-	-	-
		-15.00000	30.00000	19.50000	0.49266	-0.077016	0.073755	-	-	-
		-14.00000	30.00000	19.50000	0.67227	-0.11427	0.16806	-	-	-
		-13.00000	30.00000	19.50000	0.84184	-0.15672	0.34967	-	-	-
		-12.00000	30.00000	19.50000	0.99916	-0.20551	0.55373	-	-	-
		-11.00000	30.00000	19.50000	1.1414	-0.26208	0.78021	-	-	-
		-10.00000	30.00000	19.50000	1.3440	-0.32837	1.0243	-	-	-
		-9.00000	30.00000	19.50000	1.5841	-0.40692	1.2765	-	-	-
		-8.00000	30.00000	19.50000	1.7770	-0.50118	1.5225	-	-	-
		-7.00000	30.00000	19.50000	1.9101	-0.61583	1.7433	-	-	-
		-6.00000	30.00000	19.50000	1.9636	-0.75725	1.9154	-	-	-
		-5.00000	30.00000	19.50000	1.9069	-0.95886	2.0157	-	-	-
		-4.00000	30.00000	19.50000	1.6975	-1.2483	2.0160	-	-	-
		-3.00000	30.00000	19.50000	1.5081	-1.7788	2.1575	-	-	-
		-2.00000	30.00000	19.50000	1.1573	-2.4616	2.2634	-	-	-
		-1.00000	30.00000	19.50000	0.63695	-3.2768	2.3310	-	-	-
		0.00000	30.00000	19.50000	0.0	-4.1317	2.3518	-	-	-
		1.00000	30.00000	19.50000	0.0	-6.1667	3.5101	-	-	-
		2.00000	30.00000	19.50000	0.0	-6.1667	3.5101	-	-	-
		3.00000	30.00000	19.50000	0.0	-6.1814	3.5130	-	-	-
		4.00000	30.00000	19.50000	0.0	-6.2108	3.5164	-	-	-
		5.00000	30.00000	19.50000	0.0	-6.2437	3.5201	-	-	-
		6.00000	30.00000	19.50000	0.0	-6.2809	3.5262	-	-	-
		7.00000	30.00000	19.50000	0.0	-6.3234	3.5370	-	-	-
		8.00000	30.00000	19.50000	0.0	-6.3722	3.5547	-	-	-
		9.00000	30.00000	19.50000	0.0	-6.4287	3.5814	-	-	-
		10.00000	30.00000	19.50000	0.0	-6.4950	3.6196	-	-	-
		11.00000	30.00000	19.50000	0.0	-6.5736	3.6713	-	-	-
		12.00000	30.00000	19.50000	0.0	-6.6678	3.7390	-	-	-
		13.00000	30.00000	19.50000	0.0	-6.7825	3.8251	-	-	-
		14.00000	30.00000	19.50000	0.0	-6.9239	3.9319	-	-	-
		15.00000	30.00000	19.50000	0.0	-7.1255	4.0664	-	-	-
		16.00000	30.00000	19.50000	0.0	-7.4149	4.2331	-	-	-
		17.00000	30.00000	19.50000	0.0	-7.9454	4.5343	-	-	-
		18.00000	30.00000	19.50000	0.0	-8.6282	4.9192	-	-	-
		19.00000	30.00000	19.50000	0.0	-9.4435	5.3782	-	-	-
		20.00000	30.00000	19.50000	0.0	-8.2633	4.7036	-	-	-
		21.00000	30.00000	19.50000	0.0	-9.4435	5.3782	-	-	-
		22.00000	30.00000	19.50000	0.0	-8.6282	4.9192	-	-	-
		23.00000	30.00000	19.50000	0.0	-7.9454	4.5343	-	-	-
		24.00000	30.00000	19.50000	0.0	-7.4149	4.2331	-	-	-
		25.00000	30.00000	19.50000	0.0	-7.1255	4.0664	-	-	-
		26.00000	30.00000	19.50000	0.0	-6.9239	3.9319	-	-	-
		27.00000	30.00000	19.50000	0.0	-6.7825	3.8251	-	-	-
		28.00000	30.00000	19.50000	0.0	-6.6678	3.7390	-	-	-
		29.00000	30.00000	19.50000	0.0	-6.5736	3.6713	-	-	-
		30.00000	30.00000	19.50000	0.0	-6.4950	3.6196	-	-	-
		31.00000	30.00000	19.50000	0.0	-6.4287	3.5814	-	-	-
		32.00000	30.00000	19.50000	0.0	-6.3722	3.5547	-	-	-
		33.00000	30.00000	19.50000	0.0	-6.3234	3.5370	-	-	-
		34.00000	30.00000	19.50000	0.0	-6.2809	3.5262	-	-	-
		35.00000	30.00000	19.50000	0.0	-6.2437	3.5201	-	-	-
		36.00000	30.00000	19.50000	0.0	-6.2108	3.5164	-	-	-
		37.00000	30.00000	19.50000	0.0	-1.7935	1.0270	-	-	-
		38.00000	30.00000	19.50000	0.0	-1.2483	0.72301	-	-	-
		39.00000	30.00000	19.50000	0.0	-0.95886	0.55627	-	-	-
		40.00000	30.00000	19.50000	0.0	-0.75725	0.42180	-	-	-
		41.00000	30.00000	19.50000	0.0	-0.61583	0.31492	-	-	-
		42.00000	30.00000	19.50000	0.0	-0.50118	0.22889	-	-	-
		43.00000	30.00000	19.50000	0.0	-0.40692	0.16120	-	-	-
		44.00000	30.00000	19.50000	0.0	-0.32837	0.10944	-	-	-
		45.00000	30.00000	19.50000	0.0	-0.26208	0.071314	-	-	-
		46.00000	30.00000	19.50000	0.0	-0.20551	0.044539	-	-	-
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Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
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Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line		
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		-6.00000	31.00000	19.50000	1.5102	-0.84502	1.5804	-	-	-
		-5.00000	31.00000	19.50000	1.4081	-1.0246	1.6506	-	-	-
		-4.00000	31.00000	19.50000	1.3247	-1.3803	1.8146	-	-	-
		-3.00000	31.00000	19.50000	1.1426	-1.8554	1.9480	-	-	-
		-2.00000	31.00000	19.50000	0.85071	-2.4191	2.0432	-	-	-
		-1.00000	31.00000	19.50000	0.45708	-3.0413	2.0972	-	-	-
		0.00000	31.00000	19.50000	0.0	-3.6571	2.1056	-	-	-
		1.00000	31.00000	19.50000	0.0	-5.4583	3.1426	-	-	-
		2.00000	31.00000	19.50000	0.0	-5.4583	3.1426	-	-	-
		3.00000	31.00000	19.50000	0.0	-5.4679	3.1448	-	-	-
		4.00000	31.00000	19.50000	0.0	-5.5031	3.1494	-	-	-
		5.00000	31.00000	19.50000	0.0	-5.5424	3.1536	-	-	-
		6.00000	31.00000	19.50000	0.0	-5.5867	3.1599	-	-	-
		7.00000	31.00000	19.50000	0.0	-5.6368	3.1710	-	-	-
		8.00000	31.00000	19.50000	0.0	-5.6940	3.1894	-	-	-
		9.00000	31.00000	19.50000	0.0	-5.7597	3.2176	-	-	-
		10.00000	31.00000	19.50000	0.0	-5.8358	3.2581	-	-	-
		11.00000	31.00000	19.50000	0.0	-5.9247	3.3131	-	-	-
		12.00000	31.00000	19.50000	0.0	-6.0295	3.3850	-	-	-
		13.00000	31.00000	19.50000	0.0	-6.1541	3.4756	-	-	-
		14.00000	31.00000	19.50000	0.0	-6.3034	3.5869	-	-	-
		15.00000	31.00000	19.50000	0.0	-6.4829	3.7201	-	-	-
		16.00000	31.00000	19.50000	0.0	-6.8386	3.9434	-	-	-
		17.00000	31.00000	19.50000	0.0	-7.3137	4.2185	-	-	-
		18.00000	31.00000	19.50000	0.0	-7.8775	4.5407	-	-	-
		19.00000	31.00000	19.50000	0.0	-8.4996	4.8954	-	-	-
		20.00000	31.00000	19.50000	0.0	-7.3142	4.2111	-	-	-
		21.00000	31.00000	19.50000	0.0	-8.4996	4.8954	-	-	-
		22.00000	31.00000	19.50000	0.0	-7.8775	4.5407	-	-	-
		23.00000	31.00000	19.50000	0.0	-7.3137	4.2185	-	-	-
		24.00000	31.00000	19.50000	0.0	-6.8386	3.9434	-	-	-
		25.00000	31.00000	19.50000	0.0	-6.4829	3.7201	-	-	-
		26.00000	31.00000	19.50000	0.0	-6.3034	3.5869	-	-	-
		27.00000	31.00000	19.50000	0.0	-6.1541	3.4756	-	-	-
		28.00000	31.00000	19.50000	0.0	-6.0295	3.3850	-	-	-
		29.00000	31.00000	19.50000	0.0	-5.9247	3.3131	-	-	-
		30.00000	31.00000	19.50000	0.0	-5.8358	3.2581	-	-	-
		31.00000	31.00000	19.50000	0.0	-5.7597	3.2176	-	-	-
		32.00000	31.00000	19.50000	0.0	-5.6940	3.1894	-	-	-
		33.00000	31.00000	19.50000	0.0	-5.6368	3.1710	-	-	-
		34.00000	31.00000	19.50000	0.0	-3.7854	2.1229	-	-	-
		35.00000	31.00000	19.50000	0.0	-3.1254	1.7638	-	-	-
		36.00000	31.00000	19.50000	0.0	-2.4639	1.4049	-	-	-
		37.00000	31.00000	19.50000	0.0	-1.8650	1.0780	-	-	-
		38.00000	31.00000	19.50000	0.0	-1.3803	0.80075	-	-	-
		39.00000	31.00000	19.50000	0.0	-1.0246	0.57751	-	-	-
		40.00000	31.00000	19.50000	0.0	-0.84502	0.44427	-	-	-
		41.00000	31.00000	19.50000	0.0	-0.69577	0.33300	-	-	-
		42.00000	31.00000	19.50000	0.0	-0.57116	0.24233	-	-	-
		43.00000	31.00000	19.50000	0.0	-0.46635	0.17049	-	-	-
		44.00000	31.00000	19.50000	0.0	-0.37743	0.11546	-	-	-
		45.00000	31.00000	19.50000	0.0	-0.30132	0.075005	-	-	-
		46.00000	31.00000	19.50000	0.0	-0.23562	0.046795	-	-	-
		47.00000	31.00000	19.50000	0.0	-0.17845	0.028396	-	-	-
		48.00000	31.00000	19.50000	0.0	-0.12832	0.017308	-	-	-
		49.00000	31.00000	19.50000	0.0	-0.084056	0.010976	-	-	-
		50.00000	31.00000	19.50000	0.0	-0.044721	0.0068043	-	-	-
		51.00000	31.00000	19.50000	0.0	-0.0095590	0.0021672	-	-	-
		52.00000	31.00000	19.50000	0.0	0.0	0.0	-	-	-
		53.00000	31.00000	19.50000	0.0	0.0	0.0	-	-	-
		54.00000	31.00000	19.50000	0.0	0.0	0.0	-	-	-
		55.00000	31.00000	19.50000	0.0	0.0	0.0	-	-	-
		-25.00000	32.00000	19.50000	0.0	0.0	0.0	-	-	-
		-24.00000	32.00000	19.50000	0.0	0.0	0.0	-	-	-
		-23.00000	32.00000	19.50000	0.0	0.0	0.0	-	-	-
		-22.00000	32.00000	19.50000	0.0	0.0	0.0	-	-	-
		-21.00000	32.00000	19.50000	0.0	0.0	0.0	-	-	-
		-20.00000	32.00000	19.50000	0.0	0.0	0.0	-	-	-
		-19.00000	32.00000	19.50000	0.0	0.0	0.0	-	-	-
		-18.00000	32.00000	19.50000	0.0	0.0	0.0	-	-	-
		-17.00000	32.00000	19.50000	0.0	0.0	0.0	-	-	-
		-16.00000	32.00000	19.50000	0.16352	-0.039056	0.033915	-	-	-
		-15.00000	32.00000	19.50000	0.32269	-0.083777	0.054869	-	-	-
		-14.00000	32.00000	19.50000	0.47079	-0.13380	0.078941	-	-	-
		-13.00000	32.00000	19.50000	0.60585	-0.19006	0.19177	-	-	-
		-12.00000	32.00000	19.50000	0.72546	-0.25367	0.34259	-	-	-
		-11.00000	32.00000	19.50000	0.82660	-0.32604	0.50613	-	-	-
		-10.00000	32.00000	19.50000	0.90557	-0.40886	0.67916	-	-	-
		-9.00000	32.00000	19.50000	1.0124	-0.50418	0.85456	-	-	-
		-8.00000	32.00000	19.50000	1.1208	-0.61450	1.0216	-	-	-
		-7.00000	32.00000	19.50000	1.1666	-0.74270	1.1667	-	-	-
		-6.00000	32.00000	19.50000	1.1376	-0.89200	1.2740	-	-	-
		-5.00000	32.00000	19.50000	1.1189	-1.1405	1.4414	-	-	-
		-4.00000	32.00000	19.50000	1.0336	-1.4385	1.5875	-	-	-
		-3.00000	32.00000	19.50000	0.87383	-1.7931	1.7050	-	-	-
		-2.00000	32.00000	19.50000	0.63826	-2.2507	1.7946	-	-	-
		-1.00000	32.00000	19.50000	0.33809	-2.7289	1.8424	-	-	-
		0.00000	32.00000	19.50000	0.0	-3.1825	1.8468	-	-	-
		1.00000	32.00000	19.50000	0.0	-4.7500	2.7564	-	-	-
		2.00000	32.00000	19.50000	0.0	-4.7500	2.7564	-	-	-
		3.00000	32.00000	19.50000	0.0	-4.7500	2.7564	-	-	-
		4.00000	32.00000	19.50000	0.0	-4.7891	2.7629	-	-	-
		5.00000	32.00000	19.50000	0.0	-4.8338	2.7677	-	-	-
		6.00000	32.00000	19.50000	0.0	-4.8838	2.7738	-	-	-
		7.00000	32.00000	19.50000	0.0	-4.9401	2.7843	-	-	-
		8.00000	32.00000	19.50000	0.0	-5.0037	2.8018	-	-	-
		9.00000	32.00000	19.50000	0.0	-5.0760	2.8292	-	-	-
		10.00000	32.00000	19.50000	0.0	-5.1589	2.8687	-	-	-
		11.00000	32.00000	19.50000	0.0	-5.2542	2.9228	-	-	-
		12.00000	32.00000	19.50000	0.0	-5.3645	2.9935	-	-	-
		13.00000	32.00000	19.50000	0.0	-5.4927	3.0821	-	-	-
		14.00000	32.00000	19.50000	0.0	-5.6420	3.1898	-	-	-
		15.00000	32.00000	19.						



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of Line		
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
		43.000000	32.000000	19.500000	0.0	-0.50418	0.16647	-	-	-
		44.000000	32.000000	19.500000	0.0	-0.40886	0.11235	-	-	-
		45.000000	32.000000	19.500000	0.0	-0.32604	0.072779	-	-	-
		46.000000	32.000000	19.500000	0.0	-0.25367	0.045469	-	-	-
		47.000000	32.000000	19.500000	0.0	-0.19006	0.027923	-	-	-
		48.000000	32.000000	19.500000	0.0	-0.13380	0.017470	-	-	-
		49.000000	32.000000	19.500000	0.0	-0.083777	0.011309	-	-	-
		50.000000	32.000000	19.500000	0.0	-0.039056	0.0065385	-	-	-
		51.000000	32.000000	19.500000	0.0	0.0	0.0	-	-	-
		52.000000	32.000000	19.500000	0.0	0.0	0.0	-	-	-
		53.000000	32.000000	19.500000	0.0	0.0	0.0	-	-	-
		54.000000	32.000000	19.500000	0.0	0.0	0.0	-	-	-
		55.000000	32.000000	19.500000	0.0	0.0	0.0	-	-	-
		-25.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		-24.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		-23.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		-22.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		-21.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		-20.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		-19.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		-18.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		-17.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		-16.000000	33.000000	19.500000	0.090299	-0.026374	0.022616	-	-	-
		-15.000000	33.000000	19.500000	0.23687	-0.075418	0.045197	-	-	-
		-14.000000	33.000000	19.500000	0.37155	-0.12992	0.065034	-	-	-
		-13.000000	33.000000	19.500000	0.49239	-0.19075	0.11719	-	-	-
		-12.000000	33.000000	19.500000	0.59704	-0.25892	0.24462	-	-	-
		-11.000000	33.000000	19.500000	0.68272	-0.33564	0.38027	-	-	-
		-10.000000	33.000000	19.500000	0.74607	-0.42234	0.52213	-	-	-
		-9.000000	33.000000	19.500000	0.78313	-0.52064	0.66468	-	-	-
		-8.000000	33.000000	19.500000	0.85180	-0.63236	0.79934	-	-	-
		-7.000000	33.000000	19.500000	0.87807	-0.75942	0.91521	-	-	-
		-6.000000	33.000000	19.500000	0.90406	-0.95835	1.0721	-	-	-
		-5.000000	33.000000	19.500000	0.88121	-1.1923	1.2194	-	-	-
		-4.000000	33.000000	19.500000	0.80445	-1.4623	1.3493	-	-	-
		-3.000000	33.000000	19.500000	0.67128	-1.7659	1.4543	-	-	-
		-2.000000	33.000000	19.500000	0.48443	-2.0951	1.5281	-	-	-
		-1.000000	33.000000	19.500000	0.25440	-2.4349	1.5663	-	-	-
		0.000000	33.000000	19.500000	0.0	-2.7637	1.5668	-	-	-
		1.000000	33.000000	19.500000	0.0	-4.1250	2.3385	-	-	-
		2.000000	33.000000	19.500000	0.0	-4.1250	2.3385	-	-	-
		3.000000	33.000000	19.500000	0.0	-4.1250	2.3385	-	-	-
		4.000000	33.000000	19.500000	0.0	-4.1514	2.3436	-	-	-
		5.000000	33.000000	19.500000	0.0	-4.2004	2.3494	-	-	-
		6.000000	33.000000	19.500000	0.0	-4.2549	2.3553	-	-	-
		7.000000	33.000000	19.500000	0.0	-4.3157	2.3646	-	-	-
		8.000000	33.000000	19.500000	0.0	-4.3839	2.3800	-	-	-
		9.000000	33.000000	19.500000	0.0	-4.4606	2.4045	-	-	-
		10.000000	33.000000	19.500000	0.0	-4.5473	2.4405	-	-	-
		11.000000	33.000000	19.500000	0.0	-4.6456	2.4902	-	-	-
		12.000000	33.000000	19.500000	0.0	-4.7574	2.5553	-	-	-
		13.000000	33.000000	19.500000	0.0	-4.8844	2.6367	-	-	-
		14.000000	33.000000	19.500000	0.0	-5.0833	2.7588	-	-	-
		15.000000	33.000000	19.500000	0.0	-5.3173	2.9091	-	-	-
		16.000000	33.000000	19.500000	0.0	-5.5873	3.0863	-	-	-
		17.000000	33.000000	19.500000	0.0	-5.8909	3.2857	-	-	-
		18.000000	33.000000	19.500000	0.0	-6.2201	3.4984	-	-	-
		19.000000	33.000000	19.500000	0.0	-6.5599	3.7109	-	-	-
		20.000000	33.000000	19.500000	0.0	-5.5275	3.1336	-	-	-
		21.000000	33.000000	19.500000	0.0	-6.5599	3.7109	-	-	-
		22.000000	33.000000	19.500000	0.0	-6.2201	3.4984	-	-	-
		23.000000	33.000000	19.500000	0.0	-5.8909	3.2857	-	-	-
		24.000000	33.000000	19.500000	0.0	-5.5873	3.0863	-	-	-
		25.000000	33.000000	19.500000	0.0	-5.3173	2.9091	-	-	-
		26.000000	33.000000	19.500000	0.0	-5.0833	2.7588	-	-	-
		27.000000	33.000000	19.500000	0.0	-4.8844	2.6367	-	-	-
		28.000000	33.000000	19.500000	0.0	-4.7574	2.5553	-	-	-
		29.000000	33.000000	19.500000	0.0	-4.6456	2.4902	-	-	-
		30.000000	33.000000	19.500000	0.0	-4.5473	2.4405	-	-	-
		31.000000	33.000000	19.500000	0.0	-4.4606	2.4045	-	-	-
		32.000000	33.000000	19.500000	0.0	-4.3839	2.3800	-	-	-
		33.000000	33.000000	19.500000	0.0	-4.3157	2.3646	-	-	-
		34.000000	33.000000	19.500000	0.0	-2.8937	1.5836	-	-	-
		35.000000	33.000000	19.500000	0.0	-2.5103	1.3833	-	-	-
		36.000000	33.000000	19.500000	0.0	-2.1215	1.1651	-	-	-
		37.000000	33.000000	19.500000	0.0	-1.7659	0.94718	-	-	-
		38.000000	33.000000	19.500000	0.0	-1.4623	0.74778	-	-	-
		39.000000	33.000000	19.500000	0.0	-1.1923	0.57062	-	-	-
		40.000000	33.000000	19.500000	0.0	-0.95835	0.42034	-	-	-
		41.000000	33.000000	19.500000	0.0	-0.75942	0.29822	-	-	-
		42.000000	33.000000	19.500000	0.0	-0.63236	0.21677	-	-	-
		43.000000	33.000000	19.500000	0.0	-0.52064	0.15173	-	-	-
		44.000000	33.000000	19.500000	0.0	-0.42234	0.10205	-	-	-
		45.000000	33.000000	19.500000	0.0	-0.33564	0.066025	-	-	-
		46.000000	33.000000	19.500000	0.0	-0.25892	0.041529	-	-	-
		47.000000	33.000000	19.500000	0.0	-0.19075	0.026060	-	-	-
		48.000000	33.000000	19.500000	0.0	-0.12992	0.016849	-	-	-
		49.000000	33.000000	19.500000	0.0	-0.075418	0.010915	-	-	-
		50.000000	33.000000	19.500000	0.0	-0.026374	0.0051123	-	-	-
		51.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		52.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		53.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		54.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		55.000000	33.000000	19.500000	0.0	0.0	0.0	-	-	-
		-25.000000	34.000000	19.500000	0.0	0.0	0.0	-	-	-
		-24.000000	34.000000	19.500000	0.0	0.0	0.0	-	-	-
		-23.000000	34.000000	19.500000	0.0	0.0	0.0	-	-	-
		-22.000000	34.000000	19.500000	0.0	0.0	0.0	-	-	-
		-21.000000	34.000000	19.500000	0.0	0.0	0.0	-	-	-
		-20.000000	34.000000	19.500000	0.0	0.0	0.0</			



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		11.00000	34.00000	19.50000	0.0	-4.2668	2.0611	-	-
		12.00000	34.00000	19.50000	0.0	-4.3768	2.1175	-	-
		13.00000	34.00000	19.50000	0.0	-4.5393	2.2018	-	-
		14.00000	34.00000	19.50000	0.0	-4.7276	2.3084	-	-
		15.00000	34.00000	19.50000	0.0	-4.9427	2.4372	-	-
		16.00000	34.00000	19.50000	0.0	-5.1833	2.5858	-	-
		17.00000	34.00000	19.50000	0.0	-5.4455	2.7489	-	-
		18.00000	34.00000	19.50000	0.0	-5.7215	2.9179	-	-
		19.00000	34.00000	19.50000	0.0	-5.9990	3.0813	-	-
		20.00000	34.00000	19.50000	0.0	-5.0250	2.5878	-	-
		21.00000	34.00000	19.50000	0.0	-5.9990	3.0813	-	-
		22.00000	34.00000	19.50000	0.0	-5.7215	2.9179	-	-
		23.00000	34.00000	19.50000	0.0	-5.4455	2.7489	-	-
		24.00000	34.00000	19.50000	0.0	-5.1833	2.5858	-	-
		25.00000	34.00000	19.50000	0.0	-4.9427	2.4372	-	-
		26.00000	34.00000	19.50000	0.0	-4.7276	2.3084	-	-
		27.00000	34.00000	19.50000	0.0	-4.5393	2.2018	-	-
		28.00000	34.00000	19.50000	0.0	-4.3768	2.1175	-	-
		29.00000	34.00000	19.50000	0.0	-4.2668	2.0611	-	-
		30.00000	34.00000	19.50000	0.0	-4.1683	2.0184	-	-
		31.00000	34.00000	19.50000	0.0	-4.0801	1.9878	-	-
		32.00000	34.00000	19.50000	0.0	-4.0011	1.9674	-	-
		33.00000	34.00000	19.50000	0.0	-3.9301	1.9547	-	-
		34.00000	34.00000	19.50000	0.0	-2.6287	1.3095	-	-
		35.00000	34.00000	19.50000	0.0	-2.3075	1.1596	-	-
		36.00000	34.00000	19.50000	0.0	-1.9776	0.9852	-	-
		37.00000	34.00000	19.50000	0.0	-1.6955	0.8176	-	-
		38.00000	34.00000	19.50000	0.0	-1.4333	0.6545	-	-
		39.00000	34.00000	19.50000	0.0	-1.1927	0.5060	-	-
		40.00000	34.00000	19.50000	0.0	-0.9776	0.3771	-	-
		41.00000	34.00000	19.50000	0.0	-0.7893	0.2705	-	-
		42.00000	34.00000	19.50000	0.0	-0.6268	0.1862	-	-
		43.00000	34.00000	19.50000	0.0	-0.5168	0.1299	-	-
		44.00000	34.00000	19.50000	0.0	-0.4183	0.0871	-	-
		45.00000	34.00000	19.50000	0.0	-0.3301	0.0566	-	-
		46.00000	34.00000	19.50000	0.0	-0.2512	0.0361	-	-
		47.00000	34.00000	19.50000	0.0	-0.1801	0.0234	-	-
		48.00000	34.00000	19.50000	0.0	-0.1162	0.0156	-	-
		49.00000	34.00000	19.50000	0.0	-0.0584	0.0095	-	-
		50.00000	34.00000	19.50000	0.0	-0.0061	0.0018	-	-
		51.00000	34.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	34.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	34.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	34.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	34.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	35.00000	19.50000	0.072459	-0.032715	0.020657	-	-
		-14.00000	35.00000	19.50000	0.18543	-0.092524	0.041057	-	-
		-13.00000	35.00000	19.50000	0.28412	-0.15820	0.057756	-	-
		-12.00000	35.00000	19.50000	0.36662	-0.23044	0.079371	-	-
		-11.00000	35.00000	19.50000	0.43076	-0.31000	0.17077	-	-
		-10.00000	35.00000	19.50000	0.47416	-0.39769	0.26239	-	-
		-9.00000	35.00000	19.50000	0.49426	-0.49426	0.35209	-	-
		-8.00000	35.00000	19.50000	0.51681	-0.62881	0.45908	-	-
		-7.00000	35.00000	19.50000	0.52064	-0.78313	0.56925	-	-
		-6.00000	35.00000	19.50000	0.53291	-0.95779	0.67845	-	-
		-5.00000	35.00000	19.50000	0.52058	-1.1523	0.78159	-	-
		-4.00000	35.00000	19.50000	0.47247	-1.3643	0.87311	-	-
		-3.00000	35.00000	19.50000	0.39047	-1.5896	0.94750	-	-
		-2.00000	35.00000	19.50000	0.27898	-1.8211	0.99984	-	-
		-1.00000	35.00000	19.50000	0.14542	-2.0488	1.0263	-	-
		0.00000	35.00000	19.50000	0.0	-2.2612	1.0245	-	-
		1.00000	35.00000	19.50000	0.0	-3.3750	1.5291	-	-
		2.00000	35.00000	19.50000	0.0	-3.3750	1.5291	-	-
		3.00000	35.00000	19.50000	0.0	-3.3750	1.5291	-	-
		4.00000	35.00000	19.50000	0.0	-3.3750	1.5291	-	-
		5.00000	35.00000	19.50000	0.0	-3.4077	1.5356	-	-
		6.00000	35.00000	19.50000	0.0	-3.4675	1.5428	-	-
		7.00000	35.00000	19.50000	0.0	-3.5332	1.5498	-	-
		8.00000	35.00000	19.50000	0.0	-3.6054	1.5598	-	-
		9.00000	35.00000	19.50000	0.0	-3.6850	1.5756	-	-
		10.00000	35.00000	19.50000	0.0	-3.7727	1.5998	-	-
		11.00000	35.00000	19.50000	0.0	-3.8693	1.6342	-	-
		12.00000	35.00000	19.50000	0.0	-4.0038	1.6872	-	-
		13.00000	35.00000	19.50000	0.0	-4.1581	1.7574	-	-
		14.00000	35.00000	19.50000	0.0	-4.3328	1.8454	-	-
		15.00000	35.00000	19.50000	0.0	-4.5273	1.9504	-	-
		16.00000	35.00000	19.50000	0.0	-4.7393	2.0696	-	-
		17.00000	35.00000	19.50000	0.0	-4.9646	2.1979	-	-
		18.00000	35.00000	19.50000	0.0	-5.1961	2.3279	-	-
		19.00000	35.00000	19.50000	0.0	-5.4238	2.4500	-	-
		20.00000	35.00000	19.50000	0.0	-4.5225	2.0490	-	-
		21.00000	35.00000	19.50000	0.0	-5.4238	2.4500	-	-
		22.00000	35.00000	19.50000	0.0	-5.1961	2.3279	-	-
		23.00000	35.00000	19.50000	0.0	-4.9646	2.1979	-	-
		24.00000	35.00000	19.50000	0.0	-4.7393	2.0696	-	-
		25.00000	35.00000	19.50000	0.0	-4.5273	1.9504	-	-
		26.00000	35.00000	19.50000	0.0	-4.3328	1.8454	-	-
		27.00000	35.00000	19.50000	0.0	-4.1581	1.7574	-	-
		28.00000	35.00000	19.50000	0.0	-4.0038	1.6872	-	-
		29.00000	35.00000	19.50000	0.0	-3.8693	1.6342	-	-
		30.00000	35.00000	19.50000	0.0	-3.7727	1.5998	-	-
		31.00000	35.00000	19.50000	0.0	-3.6850	1.5756	-	-
		32.00000	35.00000	19.50000	0.0	-3.6054	1.5598	-	-
		33.00000	35.00000	19.50000	0.0	-3.5332	1.5498	-	-
		34.00000	35.00000	19.50000	0.0	-2.3538	1.0382	-	-
		35.00000	35.00000	19.50000	0.0	-2.0816	0.9272	-	-
		36.00000	35.00000	19.50000	0.0	-1.8211	0.7987	-	-
		37.00000	35.00000	19.50000	0.0	-1.5896	0.6687	-	-
		38.00000	35.00000	19.50000	0.0	-1.3643	0.5404	-	-
		39.00000	35.00000	19.50000	0.0	-1.1523	0.4212	-	-
		40.00000	35.00000	19.50000	0.0	-0.9577	0.3162	-	-
		41.00000	35.00000	19.50000	0.0	-0.7831	0.2282	-	-
		42.00000	35.00000	19.50000	0.0	-0.6288	0.1580	-	-
		43.00000	35.00000	19.50000	0.0	-0.4942	0.1050	-	-
		44.00000	35.00000	19.50000	0.0	-0.3976	0.0706	-	-
		45.00000	35.00000	19.50000	0.0	-0.3100	0.0468	-	-
		46.00000	35.00000	19.50000	0.0	-0.2304	0.0306	-	-
		47.00000	35.00000	19.50000	0.0	-0.1582	0.0206	-	-
		48.00000	35.00000	19.50000	0.0	-0.0925	0.0136	-	-
		49.00000	35.00000	19.50000	0.0	-0.0327	0.0064	-	-
		50.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	35.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	36.00000	19.50000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-21.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	36.00000	19.50000	0.10090	-0.058885	0.027852	-	-
		-13.00000	36.00000	19.50000	0.19147	-0.12513	0.044446	-	-
		-12.00000	36.00000	19.50000	0.26634	-0.19733	0.060087	-	-
		-11.00000	36.00000	19.50000	0.32371	-0.27601	0.090114	-	-
		-10.00000	36.00000	19.50000	0.36167	-0.36167	0.16362	-	-
		-9.00000	36.00000	19.50000	0.39769	-0.47416	0.24505	-	-
		-8.00000	36.00000	19.50000	0.41831	-0.60217	0.33048	-	-
		-7.00000	36.00000	19.50000	0.42234	-0.74607	0.41807	-	-
		-6.00000	36.00000	19.50000	0.40886	-0.90557	0.50476	-	-
		-5.00000	36.00000	19.50000	0.38120	-1.0794	0.58657	-	-
		-4.00000	36.00000	19.50000	0.34892	-1.2648	0.65907	-	-
		-3.00000	36.00000	19.50000	0.28946	-1.4575	0.71777	-	-
		-2.00000	36.00000	19.50000	0.20708	-1.6514	0.75863	-	-
		-1.00000	36.00000	19.50000	0.10797	-1.8386	0.77851	-	-
		0.00000	36.00000	19.50000	0.0	-2.0100	0.77550	-	-
		1.00000	36.00000	19.50000	0.0	-3.0000	1.1575	-	-
		2.00000	36.00000	19.50000	0.0	-3.0000	1.1575	-	-
		3.00000	36.00000	19.50000	0.0	-3.0000	1.1575	-	-
		4.00000	36.00000	19.50000	0.0	-3.0000	1.1575	-	-
		5.00000	36.00000	19.50000	0.0	-3.0000	1.1575	-	-
		6.00000	36.00000	19.50000	0.0	-3.0589	1.1677	-	-
		7.00000	36.00000	19.50000	0.0	-3.1251	1.1750	-	-
		8.00000	36.00000	19.50000	0.0	-3.1973	1.1830	-	-
		9.00000	36.00000	19.50000	0.0	-3.2760	1.1947	-	-
		10.00000	36.00000	19.50000	0.0	-3.3617	1.2125	-	-
		11.00000	36.00000	19.50000	0.0	-3.4742	1.2417	-	-
		12.00000	36.00000	19.50000	0.0	-3.6022	1.2830	-	-
		13.00000	36.00000	19.50000	0.0	-3.7461	1.3377	-	-
		14.00000	36.00000	19.50000	0.0	-3.9056	1.4063	-	-
		15.00000	36.00000	19.50000	0.0	-4.0794	1.4876	-	-
		16.00000	36.00000	19.50000	0.0	-4.2648	1.5790	-	-
		17.00000	36.00000	19.50000	0.0	-4.4575	1.6759	-	-
		18.00000	36.00000	19.50000	0.0	-4.6514	1.7722	-	-
		19.00000	36.00000	19.50000	0.0	-4.8386	1.8605	-	-
		20.00000	36.00000	19.50000	0.0	-4.0200	1.5510	-	-
		21.00000	36.00000	19.50000	0.0	-4.8386	1.8605	-	-
		22.00000	36.00000	19.50000	0.0	-4.6514	1.7722	-	-
		23.00000	36.00000	19.50000	0.0	-4.4575	1.6759	-	-
		24.00000	36.00000	19.50000	0.0	-4.2648	1.5790	-	-
		25.00000	36.00000	19.50000	0.0	-4.0794	1.4876	-	-
		26.00000	36.00000	19.50000	0.0	-3.9056	1.4063	-	-
		27.00000	36.00000	19.50000	0.0	-3.7461	1.3377	-	-
		28.00000	36.00000	19.50000	0.0	-3.6022	1.2830	-	-
		29.00000	36.00000	19.50000	0.0	-3.4742	1.2417	-	-
		30.00000	36.00000	19.50000	0.0	-3.3617	1.2125	-	-
		31.00000	36.00000	19.50000	0.0	-3.2760	1.1947	-	-
		32.00000	36.00000	19.50000	0.0	-3.1973	1.1830	-	-
		33.00000	36.00000	19.50000	0.0	-3.1251	1.1750	-	-
		34.00000	36.00000	19.50000	0.0	-2.0689	0.78276	-	-
		35.00000	36.00000	19.50000	0.0	-1.8386	0.70308	-	-
		36.00000	36.00000	19.50000	0.0	-1.6514	0.61477	-	-
		37.00000	36.00000	19.50000	0.0	-1.4575	0.51846	-	-
		38.00000	36.00000	19.50000	0.0	-1.2648	0.42155	-	-
		39.00000	36.00000	19.50000	0.0	-1.0794	0.33019	-	-
		40.00000	36.00000	19.50000	0.0	-0.90557	0.24885	-	-
		41.00000	36.00000	19.50000	0.0	-0.74607	0.18026	-	-
		42.00000	36.00000	19.50000	0.0	-0.60217	0.12550	-	-
		43.00000	36.00000	19.50000	0.0	-0.47416	0.084229	-	-
		44.00000	36.00000	19.50000	0.0	-0.36167	0.055002	-	-
		45.00000	36.00000	19.50000	0.0	-0.27601	0.037228	-	-
		46.00000	36.00000	19.50000	0.0	-0.19733	0.025572	-	-
		47.00000	36.00000	19.50000	0.0	-0.12513	0.017567	-	-
		48.00000	36.00000	19.50000	0.0	-0.058885	0.010264	-	-
		49.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	36.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	37.00000	19.50000	0.023011	-0.015542	0.0095675	-	-
		-13.00000	37.00000	19.50000	0.10718	-0.081362	0.030971	-	-
		-12.00000	37.00000	19.50000	0.17636	-0.15243	0.045193	-	-
		-11.00000	37.00000	19.50000	0.22909	-0.22909	0.059326	-	-
		-10.00000	37.00000	19.50000	0.27601	-0.32371	0.088755	-	-
		-9.00000	37.00000	19.50000	0.31000	-0.43076	0.15403	-	-
		-8.00000	37.00000	19.50000	0.33014	-0.55049	0.22098	-	-
		-7.00000	37.00000	19.50000	0.33564	-0.68272	0.28879	-	-
		-6.00000	37.00000	19.50000	0.32604	-0.82660	0.35544	-	-
		-5.00000	37.00000	19.50000	0.30132	-0.98042	0.41808	-	-
		-4.00000	37.00000	19.50000	0.26208	-1.1414	0.47335	-	-
		-3.00000	37.00000	19.50000	0.20970	-1.3055	0.51782	-	-
		-2.00000	37.00000	19.50000	0.14787	-1.4675	0.54837	-	-
		-1.00000	37.00000	19.50000	0.077372	-1.6209	0.56257	-	-
		0.00000	37.00000	19.50000	0.0	-1.7587	0.55906	-	-
		1.00000	37.00000	19.50000	0.0	-2.6250	0.83442	-	-
		2.00000	37.00000	19.50000	0.0	-2.6250	0.83442	-	-
		3.00000	37.00000	19.50000	0.0	-2.6250	0.83442	-	-
		4.00000	37.00000	19.50000	0.0	-2.6250	0.83442	-	-
		5.00000	37.00000	19.50000	0.0	-2.6250	0.83442	-	-
		6.00000	37.00000	19.50000	0.0	-2.6405	0.83828	-	-
		7.00000	37.00000	19.50000	0.0	-2.7064	0.84778	-	-
		8.00000	37.00000	19.50000	0.0	-2.7774	0.85537	-	-
		9.00000	37.00000	19.50000	0.0	-2.8541	0.86408	-	-
		10.00000	37.00000	19.50000	0.0	-2.9487	0.87808	-	-
		11.00000	37.00000	19.50000	0.0	-3.0558	0.89900	-	-
		12.00000	37.00000	19.50000	0.0	-3.1755	0.92881	-	-
		13.00000	37.00000	19.50000	0.0	-3.3077	0.96872	-	-
		14.00000	37.00000	19.50000	0.0	-3.4516	1.0189	-	-
		15.00000	37.00000	19.50000	0.0	-3.6054	1.0785	-	-
		16.00000	37.00000	19.50000	0.0	-3.7664	1.1450	-	-
		17.00000	37.00000	19.50000	0.0	-3.9305	1.2149	-	-
		18.00000	37.00000	19.50000	0.0	-4.0925	1.2833	-	-
		19.00000	37.00000	19.50000	0.0	-4.2459	1.3448	-	-
		20.00000	37.00000	19.50000	0.0	-3.5175	1.1181	-	-
		21.00000	37.00000	19.50000	0.0	-4.2459	1.3448	-	-
		22.00000	37.00000	19.50000	0.0	-4.0925	1.2833	-	-
		23.00000	37.00000	19.50000	0.0	-3.9305	1.2149	-	-
		24.00000	37.00000	19.50000	0.0	-3.7664	1.1450	-	-
		25.00000	37.00000	19.50000	0.0	-3.6054	1.0785	-	-
		26.00000	37.00000	19.50000	0.0	-3.4516	1.0189	-	-
		27.00000	37.00000	19.50000	0.0	-3.3077	0.96872	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
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Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		28.00000	37.00000	19.50000	0.0	-3.1755	0.92881	-	-
		29.00000	37.00000	19.50000	0.0	-3.0558	0.89900	-	-
		30.00000	37.00000	19.50000	0.0	-2.9487	0.87808	-	-
		31.00000	37.00000	19.50000	0.0	-2.8541	0.86408	-	-
		32.00000	37.00000	19.50000	0.0	-2.7774	0.85537	-	-
		33.00000	37.00000	19.50000	0.0	-2.7064	0.84778	-	-
		34.00000	37.00000	19.50000	0.0	-1.7743	0.56292	-	-
		35.00000	37.00000	19.50000	0.0	-1.6209	0.51035	-	-
		36.00000	37.00000	19.50000	0.0	-1.4675	0.44891	-	-
		37.00000	37.00000	19.50000	0.0	-1.3055	0.38047	-	-
		38.00000	37.00000	19.50000	0.0	-1.1414	0.31058	-	-
		39.00000	37.00000	19.50000	0.0	-0.98042	0.24404	-	-
		40.00000	37.00000	19.50000	0.0	-0.82660	0.18451	-	-
		41.00000	37.00000	19.50000	0.0	-0.68272	0.13430	-	-
		42.00000	37.00000	19.50000	0.0	-0.55049	0.094395	-	-
		43.00000	37.00000	19.50000	0.0	-0.43076	0.064586	-	-
		44.00000	37.00000	19.50000	0.0	-0.32371	0.043663	-	-
		45.00000	37.00000	19.50000	0.0	-0.22909	0.029663	-	-
		46.00000	37.00000	19.50000	0.0	-0.15243	0.020952	-	-
		47.00000	37.00000	19.50000	0.0	-0.081362	0.013365	-	-
		48.00000	37.00000	19.50000	0.0	-0.015542	0.0038569	-	-
		49.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	37.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	38.00000	19.50000	0.031364	-0.027422	0.013024	-	-
		-12.00000	38.00000	19.50000	0.096510	-0.096510	0.031134	-	-
		-11.00000	38.00000	19.50000	0.15243	-0.17636	0.045193	-	-
		-10.00000	38.00000	19.50000	0.19733	-0.26634	0.060087	-	-
		-9.00000	38.00000	19.50000	0.23044	-0.36662	0.079371	-	-
		-8.00000	38.00000	19.50000	0.25132	-0.47704	0.132200	-	-
		-7.00000	38.00000	19.50000	0.25892	-0.59704	0.18383	-	-
		-6.00000	38.00000	19.50000	0.25367	-0.72546	0.23393	-	-
		-5.00000	38.00000	19.50000	0.23562	-0.86040	0.28050	-	-
		-4.00000	38.00000	19.50000	0.20551	-0.99916	0.32127	-	-
		-3.00000	38.00000	19.50000	0.16465	-1.1381	0.35381	-	-
		-2.00000	38.00000	19.50000	0.11502	-1.2727	0.37589	-	-
		-1.00000	38.00000	19.50000	0.059133	-1.3977	0.38582	-	-
		0.00000	38.00000	19.50000	0.0	-1.5075	0.38276	-	-
		1.00000	38.00000	19.50000	0.0	-2.2500	0.57129	-	-
		2.00000	38.00000	19.50000	0.0	-2.2500	0.57129	-	-
		3.00000	38.00000	19.50000	0.0	-2.2500	0.57129	-	-
		4.00000	38.00000	19.50000	0.0	-2.2500	0.57129	-	-
		5.00000	38.00000	19.50000	0.0	-2.2500	0.57129	-	-
		6.00000	38.00000	19.50000	0.0	-2.2500	0.57129	-	-
		7.00000	38.00000	19.50000	0.0	-2.2774	0.57737	-	-
		8.00000	38.00000	19.50000	0.0	-2.3465	0.58686	-	-
		9.00000	38.00000	19.50000	0.0	-2.4264	0.59553	-	-
		10.00000	38.00000	19.50000	0.0	-2.5163	0.60581	-	-
		11.00000	38.00000	19.50000	0.0	-2.6166	0.62003	-	-
		12.00000	38.00000	19.50000	0.0	-2.7270	0.64005	-	-
		13.00000	38.00000	19.50000	0.0	-2.8470	0.66705	-	-
		14.00000	38.00000	19.50000	0.0	-2.9755	0.70132	-	-
		15.00000	38.00000	19.50000	0.0	-3.1104	0.74217	-	-
		16.00000	38.00000	19.50000	0.0	-3.2492	0.78783	-	-
		17.00000	38.00000	19.50000	0.0	-3.3881	0.83558	-	-
		18.00000	38.00000	19.50000	0.0	-3.5227	0.88186	-	-
		19.00000	38.00000	19.50000	0.0	-3.6477	0.92268	-	-
		20.00000	38.00000	19.50000	0.0	-3.0150	0.76553	-	-
		21.00000	38.00000	19.50000	0.0	-3.6477	0.92268	-	-
		22.00000	38.00000	19.50000	0.0	-3.5227	0.88186	-	-
		23.00000	38.00000	19.50000	0.0	-3.3881	0.83558	-	-
		24.00000	38.00000	19.50000	0.0	-3.2492	0.78783	-	-
		25.00000	38.00000	19.50000	0.0	-3.1104	0.74217	-	-
		26.00000	38.00000	19.50000	0.0	-2.9755	0.70132	-	-
		27.00000	38.00000	19.50000	0.0	-2.8470	0.66705	-	-
		28.00000	38.00000	19.50000	0.0	-2.7270	0.64005	-	-
		29.00000	38.00000	19.50000	0.0	-2.6166	0.62003	-	-
		30.00000	38.00000	19.50000	0.0	-2.5163	0.60581	-	-
		31.00000	38.00000	19.50000	0.0	-2.4264	0.59553	-	-
		32.00000	38.00000	19.50000	0.0	-2.3465	0.58686	-	-
		33.00000	38.00000	19.50000	0.0	-2.2774	0.57737	-	-
		34.00000	38.00000	19.50000	0.0	-1.5075	0.38276	-	-
		35.00000	38.00000	19.50000	0.0	-1.3977	0.35139	-	-
		36.00000	38.00000	19.50000	0.0	-1.2727	0.31057	-	-
		37.00000	38.00000	19.50000	0.0	-1.1381	0.26429	-	-
		38.00000	38.00000	19.50000	0.0	-0.99916	0.21654	-	-
		39.00000	38.00000	19.50000	0.0	-0.86040	0.17088	-	-
		40.00000	38.00000	19.50000	0.0	-0.72546	0.13003	-	-
		41.00000	38.00000	19.50000	0.0	-0.59704	0.095763	-	-
		42.00000	38.00000	19.50000	0.0	-0.47704	0.068764	-	-
		43.00000	38.00000	19.50000	0.0	-0.36662	0.048737	-	-
		44.00000	38.00000	19.50000	0.0	-0.26634	0.034515	-	-
		45.00000	38.00000	19.50000	0.0	-0.17636	0.024241	-	-
		46.00000	38.00000	19.50000	0.0	-0.096510	0.015567	-	-
		47.00000	38.00000	19.50000	0.0	-0.027422	0.0060752	-	-
		48.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	38.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	39.00000	19.50000	0.027422	-0.031364	0.013024	-	-
		-11.00000	39.00000	19.50000	0.081362	-0.10718	0.030971	-	-
		-10.00000	39.00000	19.50000	0.12513	-0.19147	0.044446	-	-
		-9.00000	39.00000	19.50000	0.15820	-0.28412	0.057756	-	-
		-8.00000	39.00000	19.50000	0.18014	-0.38470	0.073621	-	-
		-7.00000	39.00000	19.50000	0.19075	-0.49239	0.10257	-	-
		-6.00000	39.00000	19.50000	0.19006	-0.60585	0.14041	-	-
		-5.00000	39.00000	19.50000	0.17845	-0.72319	0.17479	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-4.00000	39.00000	19.50000	0.15672	-0.84184	0.20445	-	-
		-3.00000	39.00000	19.50000	0.12611	-0.95854	0.22791	-	-
		-2.00000	39.00000	19.50000	0.088319	-1.0694	0.24380	-	-
		-1.00000	39.00000	19.50000	0.045468	-1.1702	0.25112	-	-
		0.00000	39.00000	19.50000	0.0	-1.2562	0.24949	-	-
		1.00000	39.00000	19.50000	0.0	-1.8750	0.37237	-	-
		2.00000	39.00000	19.50000	0.0	-1.8750	0.37237	-	-
		3.00000	39.00000	19.50000	0.0	-1.8750	0.37237	-	-
		4.00000	39.00000	19.50000	0.0	-1.8750	0.37237	-	-
		5.00000	39.00000	19.50000	0.0	-1.8750	0.37237	-	-
		6.00000	39.00000	19.50000	0.0	-1.8750	0.37237	-	-
		7.00000	39.00000	19.50000	0.0	-1.8750	0.37237	-	-
		8.00000	39.00000	19.50000	0.0	-1.9064	0.37932	-	-
		9.00000	39.00000	19.50000	0.0	-1.9822	0.38998	-	-
		10.00000	39.00000	19.50000	0.0	-2.0665	0.39925	-	-
		11.00000	39.00000	19.50000	0.0	-2.1591	0.40947	-	-
		12.00000	39.00000	19.50000	0.0	-2.2597	0.42252	-	-
		13.00000	39.00000	19.50000	0.0	-2.3674	0.43964	-	-
		14.00000	39.00000	19.50000	0.0	-2.4809	0.46139	-	-
		15.00000	39.00000	19.50000	0.0	-2.5982	0.48745	-	-
		16.00000	39.00000	19.50000	0.0	-2.7168	0.51673	-	-
		17.00000	39.00000	19.50000	0.0	-2.8335	0.54734	-	-
		18.00000	39.00000	19.50000	0.0	-2.9444	0.57686	-	-
		19.00000	39.00000	19.50000	0.0	-3.0452	0.60257	-	-
		20.00000	39.00000	19.50000	0.0	-2.5125	0.49898	-	-
		21.00000	39.00000	19.50000	0.0	-3.0452	0.60257	-	-
		22.00000	39.00000	19.50000	0.0	-2.9444	0.57686	-	-
		23.00000	39.00000	19.50000	0.0	-2.8335	0.54734	-	-
		24.00000	39.00000	19.50000	0.0	-2.7168	0.51673	-	-
		25.00000	39.00000	19.50000	0.0	-2.5982	0.48745	-	-
		26.00000	39.00000	19.50000	0.0	-2.4809	0.46139	-	-
		27.00000	39.00000	19.50000	0.0	-2.3674	0.43964	-	-
		28.00000	39.00000	19.50000	0.0	-2.2597	0.42252	-	-
		29.00000	39.00000	19.50000	0.0	-2.1591	0.40947	-	-
		30.00000	39.00000	19.50000	0.0	-2.0665	0.39925	-	-
		31.00000	39.00000	19.50000	0.0	-1.9822	0.38998	-	-
		32.00000	39.00000	19.50000	0.0	-1.9064	0.37932	-	-
		33.00000	39.00000	19.50000	0.0	-1.8750	0.37237	-	-
		34.00000	39.00000	19.50000	0.0	-1.2562	0.24949	-	-
		35.00000	39.00000	19.50000	0.0	-1.1702	0.23020	-	-
		36.00000	39.00000	19.50000	0.0	-1.0694	0.20448	-	-
		37.00000	39.00000	19.50000	0.0	-0.95854	0.17496	-	-
		38.00000	39.00000	19.50000	0.0	-0.84184	0.14435	-	-
		39.00000	39.00000	19.50000	0.0	-0.72319	0.11508	-	-
		40.00000	39.00000	19.50000	0.0	-0.60585	0.089013	-	-
		41.00000	39.00000	19.50000	0.0	-0.49229	0.067270	-	-
		42.00000	39.00000	19.50000	0.0	-0.38470	0.050141	-	-
		43.00000	39.00000	19.50000	0.0	-0.28412	0.037099	-	-
		44.00000	39.00000	19.50000	0.0	-0.19147	0.026879	-	-
		45.00000	39.00000	19.50000	0.0	-0.10718	0.017606	-	-
		46.00000	39.00000	19.50000	0.0	-0.031364	0.0069484	-	-
		47.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	39.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-11.00000	40.00000	19.50000	0.015542	-0.023011	0.0095675	-	-
		-10.00000	40.00000	19.50000	0.058885	-0.10090	0.027852	-	-
		-9.00000	40.00000	19.50000	0.092524	-0.18543	0.041057	-	-
		-8.00000	40.00000	19.50000	0.11622	-0.27596	0.052729	-	-
		-7.00000	40.00000	19.50000	0.12992	-0.37155	0.065034	-	-
		-6.00000	40.00000	19.50000	0.13380	-0.47079	0.078941	-	-
		-5.00000	40.00000	19.50000	0.128232	-0.57182	0.09093	-	-
		-4.00000	40.00000	19.50000	0.11427	-0.67227	0.12050	-	-
		-3.00000	40.00000	19.50000	0.092781	-0.76927	0.13811	-	-
		-2.00000	40.00000	19.50000	0.065343	-0.85951	0.15033	-	-
		-1.00000	40.00000	19.50000	0.033743	-0.93935	0.15677	-	-
		0.00000	40.00000	19.50000	0.0	-1.0050	0.15745	-	-
		1.00000	40.00000	19.50000	0.0	-1.5000	0.23501	-	-
		2.00000	40.00000	19.50000	0.0	-1.5000	0.23501	-	-
		3.00000	40.00000	19.50000	0.0	-1.5000	0.23501	-	-
		4.00000	40.00000	19.50000	0.0	-1.5000	0.23501	-	-
		5.00000	40.00000	19.50000	0.0	-1.5000	0.23501	-	-
		6.00000	40.00000	19.50000	0.0	-1.5000	0.23501	-	-
		7.00000	40.00000	19.50000	0.0	-1.5000	0.23501	-	-
		8.00000	40.00000	19.50000	0.0	-1.5000	0.23501	-	-
		9.00000	40.00000	19.50000	0.0	-1.5230	0.24072	-	-
		10.00000	40.00000	19.50000	0.0	-1.6009	0.25260	-	-
		11.00000	40.00000	19.50000	0.0	-1.6854	0.26240	-	-
		12.00000	40.00000	19.50000	0.0	-1.7760	0.27211	-	-
		13.00000	40.00000	19.50000	0.0	-1.8715	0.28319	-	-
		14.00000	40.00000	19.50000	0.0	-1.9708	0.29648	-	-
		15.00000	40.00000	19.50000	0.0	-2.0718	0.31214	-	-
		16.00000	40.00000	19.50000	0.0	-2.1723	0.32968	-	-
		17.00000	40.00000	19.50000	0.0	-2.2693	0.34803	-	-
		18.00000	40.00000	19.50000	0.0	-2.3595	0.36572	-	-
		19.00000	40.00000	19.50000	0.0	-2.4393	0.38106	-	-
		20.00000	40.00000	19.50000	0.0	-2.5100	0.39491	-	-
		21.00000	40.00000	19.50000	0.0	-2.4393	0.38106	-	-
		22.00000	40.00000	19.50000	0.0	-2.3595	0.36572	-	-
		23.00000	40.00000	19.50000	0.0	-2.2693	0.34803	-	-
		24.00000	40.00000	19.50000	0.0	-2.1723	0.32968	-	-
		25.00000	40.00000	19.50000	0.0	-2.0718	0.31214	-	-
		26.00000	40.00000	19.50000	0.0	-1.9708	0.29648	-	-
		27.00000	40.00000	19.50000	0.0	-1.8715	0.28319	-	-
		28.00000	40.00000	19.50000	0.0	-1.7760	0.27211	-	-
		29.00000	40.00000	19.50000	0.0	-1.6854	0.26240	-	-
		30.00000	40.00000	19.50000	0.0	-1.6009	0.25260	-	-
		31.00000	40.00000	19.50000	0.0	-1.5230	0.24072	-	-
		32.00000	40.00000	19.50000	0.0	-1.5000	0.23501	-	-
		33.00000	40.00000	19.50000	0.0	-1.5000	0.23501	-	-
		34.00000	40.00000	19.50000	0.0	-1.0050	0.15745	-	-
		35.00000	40.00000	19.50000	0.0	-0.93935	0.14605	-	-
		36.00000	40.00000	19.50000	0.0	-0.85951	0.13071	-	-
		37.00000	40.00000	19.50000	0.0	-0.76927	0.11302	-	-
		38.00000	40.00000	19.50000	0.0	-0.67227	0.094668	-	-
		39.00000	40.00000	19.50000	0.0	-0.57182	0.077129	-	-
		40.00000	40.00000	19.50000	0.0	-0.47079	0.061471	-	-
		41.00000	40.00000	19.50000	0.0	-0.37155	0.048185	-	-
		42.00000	40.00000	19.50000	0.0	-0.27596	0.037103	-	-
		43.00000	40.00000	19.50000	0.0	-0.18543	0.027390	-	-
		44.00000	40.00000	19.50000	0.0	-0.10090	0.017588	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		45.00000	40.00000	19.50000	0.0	-0.023011	0.0057106	-	-
		46.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	40.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-11.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-10.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-9.00000	41.00000	19.50000	0.032715	-0.072459	0.020669	-	-
		-8.00000	41.00000	19.50000	0.058484	-0.15300	0.034421	-	-
		-7.00000	41.00000	19.50000	0.075418	-0.23687	0.045197	-	-
		-6.00000	41.00000	19.50000	0.083777	-0.32269	0.054869	-	-
		-5.00000	41.00000	19.50000	0.084056	-0.40867	0.064339	-	-
		-4.00000	41.00000	19.50000	0.077016	-0.49266	0.073755	-	-
		-3.00000	41.00000	19.50000	0.063688	-0.57212	0.082741	-	-
		-2.00000	41.00000	19.50000	0.045366	-0.64418	0.090623	-	-
		-1.00000	41.00000	19.50000	0.023573	-0.70578	0.096654	-	-
		0.00000	41.00000	19.50000	0.0	-0.75375	0.10020	-	-
		1.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		2.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		3.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		4.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		5.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		6.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		7.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		8.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		9.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		10.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		11.00000	41.00000	19.50000	0.0	-1.1975	0.16380	-	-
		12.00000	41.00000	19.50000	0.0	-1.2780	0.17446	-	-
		13.00000	41.00000	19.50000	0.0	-1.3619	0.18384	-	-
		14.00000	41.00000	19.50000	0.0	-1.4477	0.19312	-	-
		15.00000	41.00000	19.50000	0.0	-1.5337	0.20292	-	-
		16.00000	41.00000	19.50000	0.0	-1.6177	0.21334	-	-
		17.00000	41.00000	19.50000	0.0	-1.6971	0.22401	-	-
		18.00000	41.00000	19.50000	0.0	-1.7692	0.23422	-	-
		19.00000	41.00000	19.50000	0.0	-1.8308	0.24309	-	-
		20.00000	41.00000	19.50000	0.0	-1.5075	0.20041	-	-
		21.00000	41.00000	19.50000	0.0	-1.8308	0.24309	-	-
		22.00000	41.00000	19.50000	0.0	-1.7692	0.23422	-	-
		23.00000	41.00000	19.50000	0.0	-1.6971	0.22401	-	-
		24.00000	41.00000	19.50000	0.0	-1.6177	0.21334	-	-
		25.00000	41.00000	19.50000	0.0	-1.5337	0.20292	-	-
		26.00000	41.00000	19.50000	0.0	-1.4477	0.19312	-	-
		27.00000	41.00000	19.50000	0.0	-1.3619	0.18384	-	-
		28.00000	41.00000	19.50000	0.0	-1.2780	0.17446	-	-
		29.00000	41.00000	19.50000	0.0	-1.1975	0.16380	-	-
		30.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		31.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		32.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		33.00000	41.00000	19.50000	0.0	-1.1250	0.14956	-	-
		34.00000	41.00000	19.50000	0.0	-0.75375	0.10020	-	-
		35.00000	41.00000	19.50000	0.0	-0.70578	0.093530	-	-
		36.00000	41.00000	19.50000	0.0	-0.64418	0.084661	-	-
		37.00000	41.00000	19.50000	0.0	-0.57212	0.074453	-	-
		38.00000	41.00000	19.50000	0.0	-0.49266	0.063784	-	-
		39.00000	41.00000	19.50000	0.0	-0.40867	0.053363	-	-
		40.00000	41.00000	19.50000	0.0	-0.32269	0.043560	-	-
		41.00000	41.00000	19.50000	0.0	-0.23687	0.034282	-	-
		42.00000	41.00000	19.50000	0.0	-0.15300	0.024902	-	-
		43.00000	41.00000	19.50000	0.0	-0.072459	0.014240	-	-
		44.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	41.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-11.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-10.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-9.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-8.00000	42.00000	19.50000	0.0061684	-0.017640	0.0069924	-	-
		-7.00000	42.00000	19.50000	0.026374	-0.090299	0.022616	-	-
		-6.00000	42.00000	19.50000	0.039056	-0.16352	0.033915	-	-
		-5.00000	42.00000	19.50000	0.044721	-0.23565	0.042659	-	-
		-4.00000	42.00000	19.50000	0.044085	-0.30472	0.049843	-	-
		-3.00000	42.00000	19.50000	0.038080	-0.36847	0.055881	-	-
		-2.00000	42.00000	19.50000	0.027839	-0.42445	0.060809	-	-
		-1.00000	42.00000	19.50000	0.014669	-0.47001	0.064458	-	-
		0.00000	42.00000	19.50000	0.0	-0.50250	0.066612	-	-
		1.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		2.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		3.00000	42.00000	19.50000	0.0	-0.7500	0.099421	-	-
		4.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		5.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		6.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		7.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		8.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		9.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		10.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		11.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		12.00000	42.00000	19.50000	0.0	-0.76764	0.10460	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
									to x Axis
		13.00000	42.00000	19.50000	0.0	-0.84030	0.11692	-	-
		14.00000	42.00000	19.50000	0.0	-0.91352	0.12680	-	-
		15.00000	42.00000	19.50000	0.0	-0.98565	0.13528	-	-
		16.00000	42.00000	19.50000	0.0	-1.0547	0.14296	-	-
		17.00000	42.00000	19.50000	0.0	-1.1185	0.15007	-	-
		18.00000	42.00000	19.50000	0.0	-1.1744	0.15649	-	-
		19.00000	42.00000	19.50000	0.0	-1.2200	0.16193	-	-
		20.00000	42.00000	19.50000	0.0	-1.0050	0.13322	-	-
		21.00000	42.00000	19.50000	0.0	-1.2200	0.16193	-	-
		22.00000	42.00000	19.50000	0.0	-1.1744	0.15649	-	-
		23.00000	42.00000	19.50000	0.0	-1.1185	0.15007	-	-
		24.00000	42.00000	19.50000	0.0	-1.0547	0.14296	-	-
		25.00000	42.00000	19.50000	0.0	-0.98565	0.13528	-	-
		26.00000	42.00000	19.50000	0.0	-0.91352	0.12680	-	-
		27.00000	42.00000	19.50000	0.0	-0.84030	0.11692	-	-
		28.00000	42.00000	19.50000	0.0	-0.76764	0.10460	-	-
		29.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		30.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		31.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		32.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		33.00000	42.00000	19.50000	0.0	-0.75000	0.099421	-	-
		34.00000	42.00000	19.50000	0.0	-0.50250	0.066612	-	-
		35.00000	42.00000	19.50000	0.0	-0.47001	0.062507	-	-
		36.00000	42.00000	19.50000	0.0	-0.42445	0.057066	-	-
		37.00000	42.00000	19.50000	0.0	-0.36847	0.050647	-	-
		38.00000	42.00000	19.50000	0.0	-0.30872	0.043543	-	-
		39.00000	42.00000	19.50000	0.0	-0.23565	0.035855	-	-
		40.00000	42.00000	19.50000	0.0	-0.16352	0.027376	-	-
		41.00000	42.00000	19.50000	0.0	-0.090299	0.017504	-	-
		42.00000	42.00000	19.50000	0.0	-0.017640	0.0051808	-	-
		43.00000	42.00000	19.50000	0.0	0.0	0.0	-	0.0
		44.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	42.00000	19.50000	0.0	0.0	0.0	-	0.0
		49.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	42.00000	19.50000	0.0	0.0	0.0	-	0.0
		54.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	42.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	43.00000	19.50000	0.0	0.0	0.0	-	0.0
		-17.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-11.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-10.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-9.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-8.00000	43.00000	19.50000	0.0	0.0	0.0	-	0.0
		-7.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-6.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-5.00000	43.00000	19.50000	0.0095590	-0.054279	0.014473	-	-
		-4.00000	43.00000	19.50000	0.014778	-0.10978	0.024144	-	-
		-3.00000	43.00000	19.50000	0.015373	-0.15943	0.031130	-	-
		-2.00000	43.00000	19.50000	0.012340	-0.20106	0.036077	-	-
		-1.00000	43.00000	19.50000	0.0068074	-0.23243	0.039299	-	-
		0.00000	43.00000	19.50000	0.0	-0.25125	0.040894	-	-
		1.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		2.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		3.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		4.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		5.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		6.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		7.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		8.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		9.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		10.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		11.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		12.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		13.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		14.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		15.00000	43.00000	19.50000	0.0	-0.42928	0.073341	-	-
		16.00000	43.00000	19.50000	0.0	-0.48478	0.082315	-	-
		17.00000	43.00000	19.50000	0.0	-0.53443	0.089428	-	-
		18.00000	43.00000	19.50000	0.0	-0.57606	0.095026	-	-
		19.00000	43.00000	19.50000	0.0	-0.60743	0.099216	-	-
		20.00000	43.00000	19.50000	0.0	-0.50250	0.081787	-	-
		21.00000	43.00000	19.50000	0.0	-0.60743	0.099216	-	-
		22.00000	43.00000	19.50000	0.0	-0.57606	0.095026	-	-
		23.00000	43.00000	19.50000	0.0	-0.53443	0.089428	-	-
		24.00000	43.00000	19.50000	0.0	-0.48478	0.082315	-	-
		25.00000	43.00000	19.50000	0.0	-0.42928	0.073341	-	-
		26.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		27.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		28.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		29.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		30.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		31.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		32.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		33.00000	43.00000	19.50000	0.0	-0.37500	0.061035	-	-
		34.00000	43.00000	19.50000	0.0	-0.25125	0.040894	-	-
		35.00000	43.00000	19.50000	0.0	-0.23243	0.038181	-	-
		36.00000	43.00000	19.50000	0.0	-0.20106	0.033991	-	-
		37.00000	43.00000	19.50000	0.0	-0.15943	0.028393	-	-
		38.00000	43.00000	19.50000	0.0	-0.10978	0.021280	-	-
		39.00000	43.00000	19.50000	0.0	-0.054279	0.012306	-	-
		40.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	43.00000	19.50000	0.0	0.0	0.0	-	0.0
		43.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	43.00000	19.50000	0.0	0.0	0.0	-	0.0
		48.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	43.00000	19.50000	0.0	0.0	0.0	-	0.0
		53.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	43.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	44.00000	19.50000	0.0	0.0	0.0	-	0.0
		-23.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	44.00000	19.50000	0.0	0.0	0.0	-	-



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

Combined Movements

Job No.	Sheet No.	Rev.
J15249		
Drg. Ref.		
Made by MP	Date 04-Jan-2017	Checked

Type/No.		Coordinates			Displacements			Angle of	
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement
		-19.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-11.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-10.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-9.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-8.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-7.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-6.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-5.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-4.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-3.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-2.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-1.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		0.00000	44.00000	19.50000	0.0	0.0	0.0025890	-	-
		1.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		2.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		3.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		4.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		5.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		6.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		7.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		8.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		9.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		10.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		11.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		12.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		13.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		14.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		15.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		16.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		17.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		18.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		19.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		20.00000	44.00000	19.50000	0.0	0.0	0.0051780	-	-
		21.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		22.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		23.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		24.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		25.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		26.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		27.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		28.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		29.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		30.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		31.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		32.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		33.00000	44.00000	19.50000	0.0	0.0	0.0038642	-	-
		34.00000	44.00000	19.50000	0.0	0.0	0.0025890	-	-
		35.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		36.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		37.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		38.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		39.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		40.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		41.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		42.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		43.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		44.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		45.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		46.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		47.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		48.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		49.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		50.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		51.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		52.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		53.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		54.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		55.00000	44.00000	19.50000	0.0	0.0	0.0	-	-
		-25.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-24.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-23.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-22.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-21.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-20.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-19.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-18.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-17.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-16.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-15.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-14.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-13.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-12.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-11.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-10.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-9.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-8.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-7.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-6.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-5.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-4.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-3.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-2.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		-1.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		0.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		1.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		2.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		3.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		4.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		5.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		6.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		7.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		8.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		9.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		10.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		11.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		12.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		13.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		14.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		15.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		16.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		17.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		18.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		19.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		20.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		21.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		22.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		23.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		24.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		25.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		26.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		27.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		28.00000	45.00000	19.50000	0.0	0.0	0.0	-	-
		29.00000	45.00000	19.50000	0.0	0.0	0.0	-	-



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Type/No.	Coordinates			Displacements			Angle of Line to x Axis	
Name	Dist.	x	y	z	x	y	z	
							Horizontal displacement	Horizontal displacement
		30.00000	45.00000	19.50000	0.0	0.0	0.0	-
		31.00000	45.00000	19.50000	0.0	0.0	0.0	-
		32.00000	45.00000	19.50000	0.0	0.0	0.0	-
		33.00000	45.00000	19.50000	0.0	0.0	0.0	-
		34.00000	45.00000	19.50000	0.0	0.0	0.0	-
		35.00000	45.00000	19.50000	0.0	0.0	0.0	-
		36.00000	45.00000	19.50000	0.0	0.0	0.0	-
		37.00000	45.00000	19.50000	0.0	0.0	0.0	-
		38.00000	45.00000	19.50000	0.0	0.0	0.0	-
		39.00000	45.00000	19.50000	0.0	0.0	0.0	-
		40.00000	45.00000	19.50000	0.0	0.0	0.0	-
		41.00000	45.00000	19.50000	0.0	0.0	0.0	-
		42.00000	45.00000	19.50000	0.0	0.0	0.0	-
		43.00000	45.00000	19.50000	0.0	0.0	0.0	-
		44.00000	45.00000	19.50000	0.0	0.0	0.0	-
		45.00000	45.00000	19.50000	0.0	0.0	0.0	-
		46.00000	45.00000	19.50000	0.0	0.0	0.0	-
		47.00000	45.00000	19.50000	0.0	0.0	0.0	-
		48.00000	45.00000	19.50000	0.0	0.0	0.0	-
		49.00000	45.00000	19.50000	0.0	0.0	0.0	-
		50.00000	45.00000	19.50000	0.0	0.0	0.0	-
		51.00000	45.00000	19.50000	0.0	0.0	0.0	-
		52.00000	45.00000	19.50000	0.0	0.0	0.0	-
		53.00000	45.00000	19.50000	0.0	0.0	0.0	-
		54.00000	45.00000	19.50000	0.0	0.0	0.0	-
		55.00000	45.00000	19.50000	0.0	0.0	0.0	-

Specific Building Damage Results - Horizontal Displacements

Structure: No 154 | Sub-structure: Party Wall (1)

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
						Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	0.00000	0.00000	18.50000	4.2939	3.0150	4.2939
2.2000	2.20000	0.00000	18.40000	0.0	9.0000	0.0
4.4000	4.40000	0.00000	18.30000	0.0	9.0000	0.0
6.6000	6.60000	0.00000	18.20000	0.0	9.0000	0.0
8.8000	8.80000	0.00000	18.10000	0.0	9.0000	0.0
11.0000	11.00000	0.00000	18.00000	0.0	9.0000	0.0

Structure: No 154 | Sub-structure: Rear Elevation (2)

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
						Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	11.00000	0.00000	18.50000	0.0	9.0000	-9.0000
3.0000	11.00000	-3.00000	18.00000	0.0	7.2020	-7.2020

Structure: No 154 | Sub-structure: Rear Extension Return (3)

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
						Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	11.00000	-3.00000	18.50000	0.0	7.2020	0.0
2.0000	9.00000	-3.00000	18.25000	0.0	7.0847	0.0
4.0000	7.00000	-3.00000	18.00000	0.0	7.0011	0.0

Structure: No 154 | Sub-structure: Rear Elevation (4)

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
						Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	7.00000	-3.00000	18.50000	0.0	7.0011	-7.0011
2.0000	7.00000	-5.00000	18.33333	0.0	5.6368	-5.6368
4.0000	7.00000	-7.00000	18.16667	0.0	4.3157	-4.3157
6.0000	7.00000	-9.00000	18.00000	0.0	3.5332	-3.5332

Structure: No 154 | Sub-structure: Frontage (5)

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
						Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	0.00000	0.00000	18.50000	4.2939	3.0150	-3.0150
2.2500	0.00000	-2.25000	18.37500	0.0	4.9622	-4.9622
4.5000	0.00000	-4.50000	18.25000	0.0	3.8944	-3.8944
6.7500	0.00000	-6.75000	18.12500	0.0	2.8266	-2.8266
9.0000	0.00000	-9.00000	18.00000	0.0	2.2612	-2.2612

Structure: Hostel | Sub-structure: Side Elevaion (6)

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
						Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	11.50000	-3.00000	18.50000	0.0	7.2389	-7.2389
2.0000	11.50000	-5.00000	18.33333	0.0	5.9749	-5.9749
4.0000	11.50000	-7.00000	18.16667	0.0	4.6997	-4.6997
6.0000	11.50000	-9.00000	18.00000	0.0	3.9341	-3.9341

Structure: Hostel | Sub-structure: Near Elevation (7)

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
						Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	11.50000	-3.00000	18.50000	0.0	7.2389	0.0
2.0000	13.50000	-3.00000	18.46154	0.0	7.4346	0.0
4.0000	15.50000	-3.00000	18.42308	0.0	7.8425	0.0



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Dist. Coordinates Displacements									
x y z			x y			Horizontal displacement along the Line		Horizontal displacement perpendicular to Line	
[m]			[mm]			[mm]		[mm]	
6.0000	17.50000	-3.00000	18.39462	0.0	8.7357	-4.7500	0.0	8.7357	0.0
8.0000	19.50000	-3.00000	18.34615	0.0	10.857	0.0	0.0	10.857	0.0
10.0000	21.50000	-3.00000	18.30769	0.0	9.6708	0.0	0.0	9.6708	0.0
12.0000	23.50000	-3.00000	18.26923	0.0	8.1685	0.0	0.0	8.1685	0.0
14.0000	25.50000	-3.00000	18.23077	0.0	7.6002	0.0	0.0	7.6002	0.0
16.0000	27.50000	-3.00000	18.19231	0.0	7.3257	0.0	0.0	7.3257	0.0
18.0000	29.50000	-3.00000	18.15385	0.0	7.1685	0.0	0.0	7.1685	0.0
20.0000	31.50000	-3.00000	18.11538	0.0	7.0613	0.0	0.0	7.0613	0.0
22.0000	33.50000	-3.00000	18.07692	0.0	6.9839	0.0	0.0	6.9839	0.0
24.0000	35.50000	-3.00000	18.03846	0.0	2.8463	0.0	0.0	2.8463	0.0
26.0000	37.50000	-3.00000	18.00000	0.0	1.2985	0.0	0.0	1.2985	0.0
Structure: Hostel Sub-structure: Side Elevat ion (8)									
Dist. Coordinates Displacements									
x y z			x y			Horizontal displacement along the Line		Horizontal displacement perpendicular to Line	
[m]			[mm]			[mm]		[mm]	
0.0	37.50000	-3.00000	18.50000	0.0	1.2985	-1.2985	0.0	0.0	0.0
2.0000	37.50000	-5.00000	18.33333	0.0	1.6061	-1.6061	0.0	0.0	0.0
4.0000	37.50000	-7.00000	18.16667	0.0	1.6102	-1.6102	0.0	0.0	0.0
6.0000	37.50000	-9.00000	18.00000	0.0	1.4757	-1.4757	0.0	0.0	0.0
Structure: No 166 Sub-structure: Frontage (9)									
Dist. Coordinates Displacements									
x y z			x y			Horizontal displacement along the Line		Horizontal displacement perpendicular to Line	
[m]			[mm]			[mm]		[mm]	
0.0	1.00000	26.00000	17.00000	0.0	-9.0000	-9.0000	0.0	0.0	0.0
2.0000	1.00000	28.00000	17.00000	0.0	-7.5833	-7.5833	0.0	0.0	0.0
4.0000	1.00000	30.00000	17.00000	0.0	-6.1667	-6.1667	0.0	0.0	0.0
6.0000	1.00000	32.00000	17.00000	0.0	-4.7500	-4.7500	0.0	0.0	0.0
8.0000	1.00000	34.00000	17.00000	0.0	-3.7500	-3.7500	0.0	0.0	0.0
10.0000	1.00000	36.00000	17.00000	0.0	-3.0000	-3.0000	0.0	0.0	0.0
12.0000	1.00000	38.00000	17.00000	0.0	-2.2500	-2.2500	0.0	0.0	0.0
14.0000	1.00000	40.00000	17.00000	0.0	-1.5000	-1.5000	0.0	0.0	0.0
Structure: No 166 Sub-structure: Party Wall (10)									
Dist. Coordinates Displacements									
x y z			x y			Horizontal displacement along the Line		Horizontal displacement perpendicular to Line	
[m]			[mm]			[mm]		[mm]	
0.0	1.00000	26.00000	17.00000	0.0	-9.0000	0.0	-9.0000	0.0	0.0
2.2500	3.25000	26.00000	17.00000	0.0	-9.0000	0.0	-9.0000	0.0	0.0
4.5000	5.50000	26.00000	17.00000	0.0	-9.0000	0.0	-9.0000	0.0	0.0
6.7500	7.75000	26.00000	17.00000	0.0	-9.0000	0.0	-9.0000	0.0	0.0
9.0000	10.00000	26.00000	17.00000	0.0	-9.0000	0.0	-9.0000	0.0	0.0
Structure: No 166 Sub-structure: Rear Elevation (11)									
Dist. Coordinates Displacements									
x y z			x y			Horizontal displacement along the Line		Horizontal displacement perpendicular to Line	
[m]			[mm]			[mm]		[mm]	
0.0	10.00000	26.00000	17.00000	0.0	-9.0000	-9.0000	0.0	0.0	0.0
2.0000	10.00000	28.00000	17.00000	0.0	-7.7672	-7.7672	0.0	0.0	0.0
4.0000	10.00000	30.00000	17.00000	0.0	-6.4950	-6.4950	0.0	0.0	0.0
6.0000	10.00000	32.00000	17.00000	0.0	-5.1589	-5.1589	0.0	0.0	0.0
8.0000	10.00000	34.00000	17.00000	0.0	-4.1683	-4.1683	0.0	0.0	0.0
Structure: No 166 Sub-structure: Rear Elevat ion (12)									
Dist. Coordinates Displacements									
x y z			x y			Horizontal displacement along the Line		Horizontal displacement perpendicular to Line	
[m]			[mm]			[mm]		[mm]	
0.0	10.00000	34.00000	17.00000	0.0	-4.1683	0.0	-4.1683	0.0	0.0
2.0000	12.00000	34.00000	17.00000	0.0	-4.3768	0.0	-4.3768	0.0	0.0
4.0000	14.00000	34.00000	17.00000	0.0	-4.7276	0.0	-4.7276	0.0	0.0
6.0000	16.00000	34.00000	17.00000	0.0	-5.1833	0.0	-5.1833	0.0	0.0
8.0000	18.00000	34.00000	17.00000	0.0	-5.7215	0.0	-5.7215	0.0	0.0
10.0000	20.00000	34.00000	17.00000	0.0	-5.0250	0.0	-5.0250	0.0	0.0
12.0000	22.00000	34.00000	17.00000	0.0	-5.7215	0.0	-5.7215	0.0	0.0
14.0000	24.00000	34.00000	17.00000	0.0	-5.1833	0.0	-5.1833	0.0	0.0
Structure: No 166 Sub-structure: Rear Elevation (13)									
Dist. Coordinates Displacements									
x y z			x y			Horizontal displacement along the Line		Horizontal displacement perpendicular to Line	
[m]			[mm]			[mm]		[mm]	
0.0	24.00000	34.00000	17.00000	0.0	-5.1833	-5.1833	0.0	0.0	0.0
2.0000	24.00000	36.00000	17.00000	0.0	-4.2648	-4.2648	0.0	0.0	0.0
4.0000	24.00000	38.00000	17.00000	0.0	-3.2492	-3.2492	0.0	0.0	0.0
6.0000	24.00000	40.00000	17.00000	0.0	-2.1723	-2.1723	0.0	0.0	0.0
Structure: Gray's Inn Road Sub-structure: Roadway									
Dist. Coordinates Displacements									
x y z			x y			Horizontal displacement along the Line		Horizontal displacement perpendicular to Line	
[m]			[mm]			[mm]		[mm]	
0.0	-5.00000	-10.00000	19.00000	0.38120	1.0794	1.0794	0.0	-0.38120	0.0
2.0000	-5.00000	-8.00000	19.00000	0.68477	1.1927	1.1927	0.0	-0.68477	0.0
4.0000	-5.00000	-6.00000	19.00000	1.1189	1.1405	1.1405	0.0	-1.1189	0.0
6.0000	-5.00000	-4.00000	19.00000	1.9069	0.95886	0.95886	0.0	-1.9069	0.0
8.0000	-5.00000	-2.00000	19.00000	3.2767	0.62806	0.62806	0.0	-3.2767	0.0
10.0000	-5.00000	0.00000	19.00000	4.9328	0.0	0.0	0.0	-4.9328	0.0
12.0000	-5.00000	2.00000	19.00000	7.3624	0.0	0.0	0.0	-7.3624	0.0
14.0000	-5.00000	4.00000	19.00000	7.3624	0.0	0.0	0.0	-7.3624	0.0
16.0000	-5.00000	6.00000	19.00000	7.3624	0.0	0.0	0.0	-7.3624	0.0
18.0000	-5.00000	8.00000	19.00000	7.3624	0.0	0.0	0.0	-7.3624	0.0
20.0000	-5.00000	10.00000	19.00000	7.3624	0.0	0.0	0.0	-7.3624	0.0
22.0000	-5.00000	12.00000	19.00000	7.3624	0.0	0.0	0.0	-7.3624	0.0
24.0000	-5.00000	14.00000	19.00000	7.3624	0.0	0.0	0.0	-7.3624	0.0



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Dist.	Coordinates			Displacements		
x	y	z	x	y	Horizontal displacement along the	Horizontal displacement perpendicular
26.000	-5.00000	16.00000	19.00000	7.3624	0.0	-7.3624
28.000	-5.00000	18.00000	19.00000	7.3624	0.0	-7.3624
30.000	-5.00000	20.00000	19.00000	7.3624	0.0	-7.3624
32.000	-5.00000	22.00000	19.00000	7.3624	0.0	-7.3624
34.000	-5.00000	24.00000	19.00000	7.3624	0.0	-7.3624
36.000	-5.00000	26.00000	19.00000	4.9328	0.0	-4.9328
38.000	-5.00000	28.00000	19.00000	3.2767	-0.62806	-3.2767
40.000	-5.00000	30.00000	19.00000	1.9069	-0.95886	-1.9069
42.000	-5.00000	32.00000	19.00000	1.1189	-1.1405	-1.1189
44.000	-5.00000	34.00000	19.00000	0.68477	-1.1927	-0.68477
46.000	-5.00000	36.00000	19.00000	0.38120	-1.0794	-0.38120
48.000	-5.00000	38.00000	19.00000	0.23562	-0.86040	-0.23562
50.000	-5.00000	40.00000	19.00000	0.12832	-0.57182	-0.12832

Specific Building Damage Results - Vertical Displacements

Structure: No 154 | Sub-structure: Party Wall (1)

Dist.	Coordinates			Displacements
	x	y	z	z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	0.00000	0.00000	18.50000	3.1854
2.0000	2.20000	0.00000	18.40000	4.0040
4.4000	4.40000	0.00000	18.30000	4.0040
6.6000	6.60000	0.00000	18.20000	4.0040
8.8000	8.80000	0.00000	18.10000	4.0040
11.0000	11.00000	0.00000	18.00000	4.0040

Structure: No 154 | Sub-structure: Rear Elevation (2)

Dist.	Coordinates			Displacements
	x	y	z	z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	11.00000	0.00000	18.50000	4.0040
3.0000	11.00000	-3.00000	18.00000	3.9866

Structure: No 154 | Sub-structure: Rear Extension Return (3)

Dist.	Coordinates			Displacements
	x	y	z	z
(m)	(m)	(m)	(m)	(mm)

Vertical Offset 1

0.0	11.00000	-3.00000	18.50000	3.9866
2.0000	9.00000	-3.00000	18.25000	3.9102
4.0000	7.00000	-3.00000	18.00000	3.8721

Structure: No 154 | Sub-structure: Rear Elevation (4)

Dist.	Coordinates			Displacements
	x	y	z	z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	7.00000	-3.00000	18.50000	3.8721
2.0000	7.00000	-5.00000	18.33333	3.1710
4.0000	7.00000	-7.00000	18.16667	2.3646
6.0000	7.00000	-9.00000	18.00000	1.5498

Structure: No 154 | Sub-structure: Frontage (5)

Dist.	Coordinates			Displacements
	x	y	z	z
(m)	(m)	(m)	(m)	(mm)

Vertical Offset 1

0.0	0.00000	0.00000	18.50000	3.1854
2.2500	0.00000	-2.25000	18.37500	2.7178
4.5000	0.00000	-4.50000	18.25000	2.2300
6.7500	0.00000	-6.75000	18.12500	1.6335
9.0000	0.00000	-9.00000	18.00000	1.0245

Structure: Hostel | Sub-structure: Side Elevation (6)

Dist.	Coordinates			Displacements
	x	y	z	z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	11.50000	-3.00000	18.50000	4.0136
2.0000	11.50000	-5.00000	18.33333	3.3468
4.0000	11.50000	-7.00000	18.16667	2.5207
6.0000	11.50000	-9.00000	18.00000	1.6587

Structure: Hostel | Sub-structure: Near Elevation (7)

Dist.	Coordinates			Displacements
	x	y	z	z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	11.50000	-3.00000	18.50000	4.0136
2.0000	13.50000	-3.00000	18.46154	4.1622
4.0000	15.50000	-3.00000	18.42308	4.4083
6.0000	17.50000	-3.00000	18.38462	4.9069
8.0000	19.50000	-3.00000	18.34615	6.0805
10.000	21.50000	-3.00000	18.30769	5.4253
12.000	23.50000	-3.00000	18.26923	4.5907
14.000	25.50000	-3.00000	18.23077	4.2700
16.000	27.50000	-3.00000	18.19231	4.0791
18.000	29.50000	-3.00000	18.15385	2.9631
20.000	31.50000	-3.00000	18.11538	3.8977
22.000	33.50000	-3.00000	18.07692	3.8668
24.000	35.50000	-3.00000	18.03846	1.5828
26.000	37.50000	-3.00000	18.00000	0.74280

Structure: Hostel | Sub-structure: Side Elevation (8)

Dist.	Coordinates			Displacements
	x	y	z	z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	37.50000	-3.00000	18.50000	0.74280
2.0000	37.50000	-5.00000	18.33333	0.93221



Panther House, 156-164 Gray's Inn Road, London, WC1X 8ED

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Dist.	Coordinates			Displacements							
	x	y	z	z							
[m]	[m]	[m]	[m]	[mm]							
4.0000	37.50000	-7.00000	18.16667	0.84514							
6.0000	37.50000	-9.00000	18.00000	0.60391							
Structure: No 166 Sub-structure: Frontage (9)											
Dist.	Coordinates			Displacements							
	x	y	z	z							
[m]	[m]	[m]	[m]	[mm]							
Vertical Offset 1											
0.0	1.00000	26.00000	17.00000	4.0040							
2.0000	1.00000	28.00000	17.00000	4.1102							
4.0000	1.00000	30.00000	17.00000	3.5101							
6.0000	1.00000	32.00000	17.00000	2.7564							
8.0000	1.00000	34.00000	17.00000	1.9312							
10.000	1.00000	36.00000	17.00000	1.1575							
12.000	1.00000	38.00000	17.00000	0.57129							
14.000	1.00000	40.00000	17.00000	0.23501							
Structure: No 166 Sub-structure: Party Wall (10)											
Dist.	Coordinates			Displacements							
	x	y	z	z							
[m]	[m]	[m]	[m]	[mm]							
Vertical Offset 1											
0.0	1.00000	26.00000	17.00000	4.0040							
2.2500	3.25000	26.00000	17.00000	4.0040							
4.5000	5.50000	26.00000	17.00000	4.0040							
6.7500	7.75000	26.00000	17.00000	4.0040							
9.0000	10.00000	26.00000	17.00000	4.0040							
Structure: No 166 Sub-structure: Rear Elevation (11)											
Dist.	Coordinates			Displacements							
	x	y	z	z							
[m]	[m]	[m]	[m]	[mm]							
Vertical Offset 1											
0.0	10.00000	26.00000	17.00000	4.0040							
2.0000	10.00000	28.00000	17.00000	4.1786							
4.0000	10.00000	30.00000	17.00000	3.6196							
6.0000	10.00000	32.00000	17.00000	2.8687							
8.0000	10.00000	34.00000	17.00000	2.0184							
Structure: No 166 Sub-structure: Rear Eleavtion (12)											
Dist.	Coordinates			Displacements							
	x	y	z	z							
[m]	[m]	[m]	[m]	[mm]							
Vertical Offset 1											
0.0	10.00000	34.00000	17.00000	2.0184							
2.0000	12.00000	34.00000	17.00000	2.1175							
4.0000	14.00000	34.00000	17.00000	2.3084							
6.0000	16.00000	34.00000	17.00000	2.5858							
8.0000	18.00000	34.00000	17.00000	2.9179							
10.000	20.00000	34.00000	17.00000	2.5878							
12.000	22.00000	34.00000	17.00000	2.9179							
14.000	24.00000	34.00000	17.00000	2.5858							
Structure: No 166 Sub-structure: Rear Elevation (13)											
Dist.	Coordinates			Displacements							
	x	y	z	z							
[m]	[m]	[m]	[m]	[mm]							
Vertical Offset 1											
0.0	24.00000	34.00000	17.00000	2.5858							
2.0000	24.00000	36.00000	17.00000	1.5790							
4.0000	24.00000	38.00000	17.00000	0.78783							
6.0000	24.00000	40.00000	17.00000	0.32968							
Structure: Gray's Inn Road Sub-structure: Roadway											
Dist.	Coordinates			Displacements							
	x	y	z	z							
[m]	[m]	[m]	[m]	[mm]							
Vertical Offset 1											
0.0	-5.00000	-10.00000	19.00000	0.58657							
2.0000	-5.00000	-8.00000	19.00000	0.99576							
4.0000	-5.00000	-6.00000	19.00000	1.4414							
6.0000	-5.00000	-4.00000	19.00000	2.0157							
8.0000	-5.00000	-2.00000	19.00000	2.8478							
10.000	-5.00000	0.00000	19.00000	3.7071							
12.000	-5.00000	2.00000	19.00000	5.5330							
14.000	-5.00000	4.00000	19.00000	5.5330							
16.000	-5.00000	6.00000	19.00000	5.5330							
18.000	-5.00000	8.00000	19.00000	5.5330							
20.000	-5.00000	10.00000	19.00000	5.5330							
22.000	-5.00000	12.00000	19.00000	5.5330							
24.000	-5.00000	14.00000	19.00000	5.5330							
26.000	-5.00000	16.00000	19.00000	5.5330							
28.000	-5.00000	18.00000	19.00000	5.5330							
30.000	-5.00000	20.00000	19.00000	5.5330							
32.000	-5.00000	22.00000	19.00000	5.5330							
34.000	-5.00000	24.00000	19.00000	5.5330							
36.000	-5.00000	26.00000	19.00000	3.7071							
38.000	-5.00000	28.00000	19.00000	2.8478							
40.000	-5.00000	30.00000	19.00000	2.0157							
42.000	-5.00000	32.00000	19.00000	1.4414							
44.000	-5.00000	34.00000	19.00000	0.99576							
46.000	-5.00000	36.00000	19.00000	0.58657							
48.000	-5.00000	38.00000	19.00000	0.28050							
50.000	-5.00000	40.00000	19.00000	0.098093							
Specific Building Damage Results - All Segments											
Structure: No 154 Sub-structure: Party Wall (1)											
Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0		1	0.0	6.6000	Sagging	0.0082742	-0.065059	0.013760	0.0019556	-372.82E-6	4717.1
											(Negligible)
		2	6.6000	4.4000	None	0.0	0.0	0.0	0.0	0.0	-



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from Line for Vertical Movement Calculations				Ratio	Horizontal Strain	Tensile Strain	of Horizontal Displacement Curve	of Vertical Displacement Curve	Radius of Curvature	Category
[m] 0.0		[m]	[m]	[%]	[%]	[%]			[m]	
	1	0.0	9.0000	None	0.0	0.0	0.0	0.0	0.0 -	0 (Negligible)

Tensile horizontal strains are +ve, compressive horizontal strains are -ve.

Structure: No 166 | Sub-structure: Rear Elevation (11)

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature	Damage Category
[m] 0.0		[m]	[m]		[%]	[%]	[%]			[m]	
	1	0.0	0.0000	Sagging	0.0083748	0.060396	0.065846	-667.64E-6	424.96E-6	4608.3	1 (Very Slight)

Tensile horizontal strains are +ve, compressive horizontal strains are -ve.

Structure: No 166 | Sub-structure: Rear Elevation (12)

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature	Damage Category
[m] 0.0		[m]	[m]		[%]	[%]	[%]			[m]	
	1	0.0	4.8132	Hogging	0.0014140	0.0	0.0014075	0.0	-138.70E-6	42930.	0 (Negligible)
	2	4.8132	9.1868	Sagging	0.0047342	0.0	0.0044378	0.0	-166.06E-6	4028.9	0 (Negligible)

Tensile horizontal strains are +ve, compressive horizontal strains are -ve.

Structure: No 166 | Sub-structure: Rear Elevation (13)

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature	Damage Category
[m] 0.0		[m]	[m]		[%]	[%]	[%]			[m]	
	1	0.0	6.0000	Hogging	0.0048959	0.050183	0.051430	-538.15E-6	503.17E-6	11050.	1 (Very Slight)

Tensile horizontal strains are +ve, compressive horizontal strains are -ve.

Structure: Gray's Inn Road | Sub-structure: Roadway

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature	Damage Category
[m] 0.0		[m]	[m]		[%]	[%]	[%]			[m]	
	1	0.0	10.095	Hogging	0.0047147	-0.010692	0.0021407	314.13E-6	-912.94E-6	12648.	0 (Negligible)
	2	10.095	5.9045	Sagging	0.019929	0.0	0.0098501	0.0	-912.94E-6	5962.2	0 (Negligible)
	3	16.000	14.000	None	0.0	0.0	0.0	0.0	0.0 -	0	0 (Negligible)
	4	30.000	5.9045	Sagging	0.019929	0.0	0.0098501	0.0	912.94E-6	5962.2	0 (Negligible)
	5	35.905	12.095	Hogging	0.0048687	-0.0071134	0.0014245	314.13E-6	912.94E-6	12610.	0 (Negligible)

Tensile horizontal strains are +ve, compressive horizontal strains are -ve.

Specific Building Damage Results - Critical Values for All Segments within Each Sub-Structure

Structure: No 154 | Sub-structure: Party Wall (1)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%]	[%]		[mm]	[%]			[m]	[m]	
	0.0082742	-0.065059	-372.82E-6	4.0040	0.013760	0.0019556	-372.82E-6	4717.1	0	0 (Negligible)

Structure: No 154 | Sub-structure: Rear Elevation (2)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%]	[%]		[mm]	[%]			[m]	[m]	
	0.0	0.059935	5.7754E-6	4.0040	0.059935	-598.99E-6	5.7754E-6	4717.1	- 1	1 (Very Slight)

Structure: No 154 | Sub-structure: Rear Extension Return (3)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%]	[%]		[mm]	[%]			[m]	[m]	
	474.48E-6	0.0	38.221E-6	3.9866	471.10E-6	0.0	38.221E-6	104310.	- 0	0 (Negligible)

Structure: No 154 | Sub-structure: Rear Elevation (4)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%]	[%]		[mm]	[%]			[m]	[m]	
	0.0012730	0.060062	407.22E-6	3.8721	0.060893	-681.70E-6	407.22E-6	30892.	1	1 (Very Slight)

Structure: No 154 | Sub-structure: Frontage (5)



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Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%] 0.0013669	[%] -0.086542	270.57E-6	[mm] 3.1854	[%] 0.025125	866.17E-6	270.57E-6	[m] 1.8122E+6	[m] 81330.0	0 (Negligible)

Structure: Hostel | Sub-structure: Side Eleavtion (6)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%] 0.0019693	[%] 0.055080	430.88E-6	[mm] 4.0136	[%] 0.056244	-637.18E-6	430.88E-6	[m] -	[m] 21080.1	1 (Very Slight)

Structure: Hostel | Sub-structure: Near Elevation (7)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%] 0.021930	[%] 0.0	0.0011420	[mm] 6.0795	[%] 0.021183	0.0	0.0011420	[m] 1689.0	[m] 5063.7	0 (Negligible)

Structure: Hostel | Sub-structure: Side Eleavtion (8)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%] 0.0039284	[%] -0.0029537	120.61E-6	[mm] 0.93220	[%] 0.0029876	153.80E-6	120.61E-6	[m] -	[m] 13024.0	0 (Negligible)

Structure: No 166 | Sub-structure: Frontage (9)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%] 0.0082443	[%] 0.067711	412.37E-6	[mm] 4.1099	[%] 0.072496	-707.83E-6	412.37E-6	[m] 15080.	[m] 4744.2	1 (Very Slight)

Structure: No 166 | Sub-structure: Party Wall (10)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%] 0.0	[%] 0.0	0.0	[mm] 4.0040	[%] 0.0	0.0	0.0	[m] -	[m] -	0 (Negligible)

Structure: No 166 | Sub-structure: Rear Elevation (11)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%] 0.0083748	[%] 0.060396	424.96E-6	[mm] 4.1733	[%] 0.065846	-667.64E-6	424.96E-6	[m] -	[m] 4608.3	1 (Very Slight)

Structure: No 166 | Sub-structure: Rear Eleavtion (12)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%] 0.0047342	[%] 0.0	-166.06E-6	[mm] 2.9127	[%] 0.0044378	0.0	-166.06E-6	[m] 42930.	[m] 4028.9	0 (Negligible)

Structure: No 166 | Sub-structure: Rear Elevation (13)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%] 0.0048959	[%] 0.050183	503.17E-6	[mm] 2.5858	[%] 0.051430	-538.15E-6	503.17E-6	[m] 11050.	[m] -	1 (Very Slight)

Structure: Gray's Inn Road | Sub-structure: Roadway

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Max Slope	Max Settlement	Max Tensile Strain	Max Gradient of Horizontal Displacement Curve	Max Gradient of Vertical Displacement Curve	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
[m] 0.0	[%] 0.019929	[%] -0.010692	912.94E-6	[mm] 5.5330	[%] 0.0098501	314.13E-6	912.94E-6	[m] 12610.	[m] 5962.2	0 (Negligible)

Specific Building Damage Results - Critical Segments within Each Structure

Structure Name	Parameter	Critical Sub-Structure	Critical Segment	Start	End	Curvature	Max Slope	Max Settlement	Max Tensile Strain	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
				[m]	[m]			[mm]	[%]	[m]	[m]	



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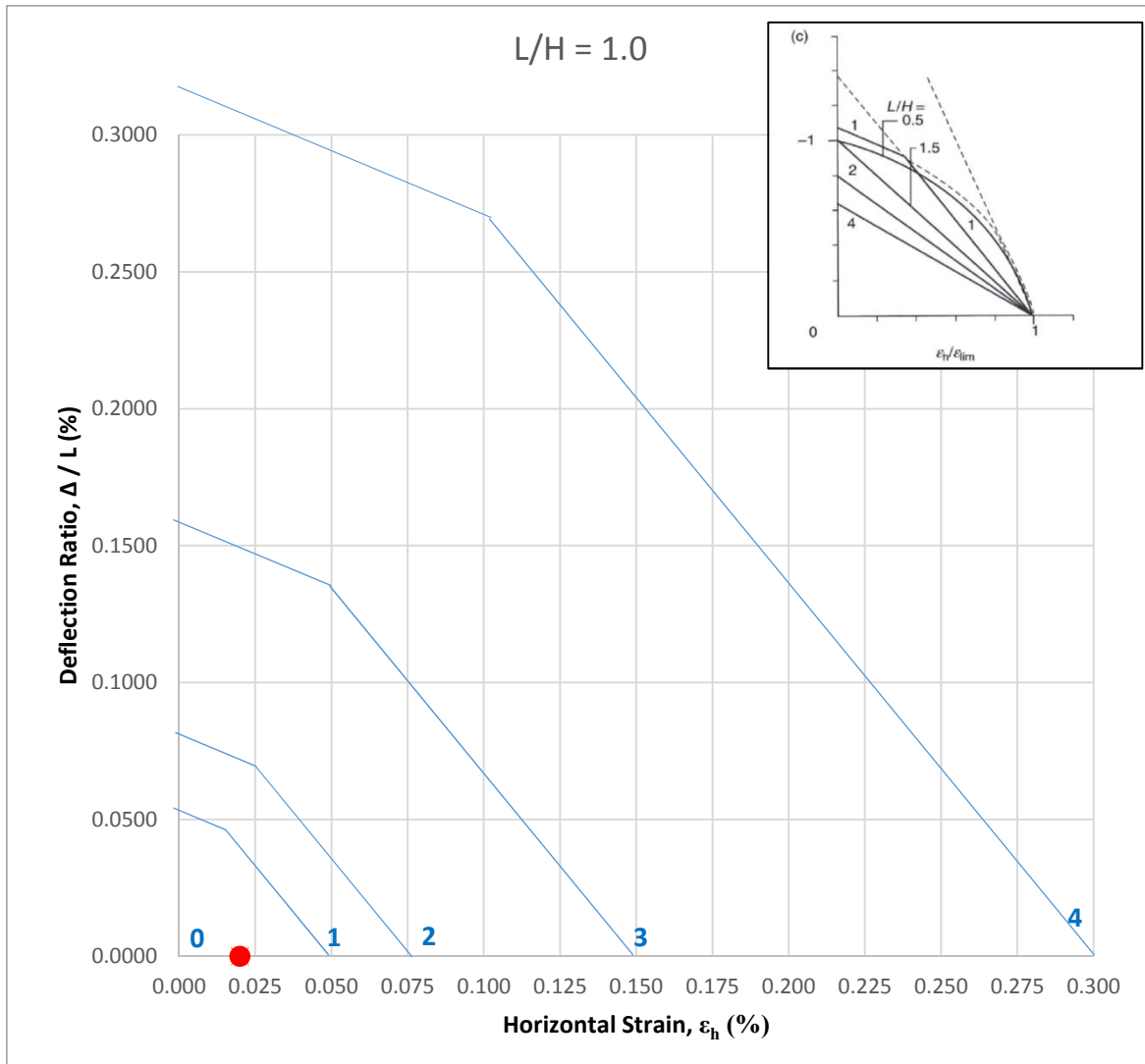
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Structure Name	Parameter	Critical Sub-Structure	Critical Segment	Start	End	Curvature	Max Slope	Max Settlement	Max Tensile Strain	Min Radius of Curvature (Hogging)	Min Radius of Curvature (Sagging)	Damage Category
No 154	Max Slope	Rear Elevation (4)		1	0.0	5.3512	Sagging	407.22E-6	3.8721	0.060893	-	30892.1 1 (Very Slight)
	Max Settlement	Party Wall (1)		1	0.0	6.6000	Sagging	372.82E-6	4.0040	0.013760	-	4717.1 0 (Negligible)
	Max Tensile Strain	Rear Elevation (4)		1	0.0	5.3512	Sagging	407.22E-6	3.8721	0.060893	-	30892.1 1 (Very Slight)
	Min Radius of Curvature (Hogging)	Rear Extension Return (3)		1	0.0	4.0000	Hogging	38.221E-6	3.9866	471.10E-6	104310.	- 0 (Negligible)
	Min Radius of Curvature (Sagging)	Party Wall (1)		1	0.0	6.6000	Sagging	372.82E-6	4.0040	0.013760	-	4717.1 0 (Negligible)
Hostel	Max Slope	Near Elevation (7)		4	18.180	23.186	Sagging	0.0011420	3.9572	0.019507	-	5306.3 0 (Negligible)
	Max Settlement	Near Elevation (7)		2	5.6990	11.262	Sagging	586.80E-6	6.0795	0.021183	-	5063.7 0 (Negligible)
	Max Tensile Strain	Side Elevation (6)		1	0.0	6.0000	Sagging	430.88E-6	4.0136	0.056244	-	21080.1 1 (Very Slight)
	Min Radius of Curvature (Hogging)	Near Elevation (7)		5	23.186	26.000	Hogging	0.0011420	2.5126	0.014736	1689.0	- 0 (Negligible)
	Min Radius of Curvature (Sagging)	Near Elevation (7)		2	5.6990	11.262	Sagging	586.80E-6	6.0795	0.021183	-	5063.7 0 (Negligible)
No 166	Max Slope	Rear Elevation (13)		1	0.0	6.0000	Hogging	503.17E-6	2.5858	0.051430	11050.	- 1 (Very Slight)
	Max Settlement	Rear Elevation (11)		1	0.0	8.0000	Sagging	424.96E-6	4.1733	0.065846	-	4608.3 1 (Very Slight)
	Max Tensile Strain	Frontage (9)		1	0.0	7.0576	Sagging	412.37E-6	4.1099	0.072496	-	4744.2 1 (Very Slight)
	Min Radius of Curvature (Hogging)	Rear Elevation (13)		1	0.0	6.0000	Hogging	503.17E-6	2.5858	0.051430	11050.	- 1 (Very Slight)
	Min Radius of Curvature (Sagging)	Rear Elevation (12)		2	4.8132	14.000	Sagging	166.06E-6	2.9127	0.0044378	-	4028.9 0 (Negligible)
Gray's Inn Road	Max Slope	Roadway		1	0.0	10.095	Hogging	912.94E-6	3.7943	0.0021407	12648.	- 0 (Negligible)
	Max Settlement	Roadway		2	10.095	16.000	Sagging	912.94E-6	5.5330	0.0098501	-	5962.2 0 (Negligible)
	Max Tensile Strain	Roadway		2	10.095	16.000	Sagging	912.94E-6	5.5330	0.0098501	-	5962.2 0 (Negligible)
	Min Radius of Curvature (Hogging)	Roadway		5	35.905	48.000	Hogging	912.94E-6	3.7943	0.0014245	12610.	- 0 (Negligible)
	Min Radius of Curvature (Sagging)	Roadway		4	30.000	35.905	Sagging	912.94E-6	5.5330	0.0098501	-	5962.2 0 (Negligible)

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L / H = 0.25



Wall Length, $L = 3.0$ m
Wall Height, $H = 12.0$ m
Change in horizontal movement, $\delta_h = 0.6$ mm
Change in vertical movement, $\Delta = 0$ mm

Horizontal deflection:

$$\text{Horizontal deflection, } \epsilon_h = \frac{\delta_h \times 100}{L \times 1000}$$

$$\epsilon_h = 0.0200$$

Vertical deflection:

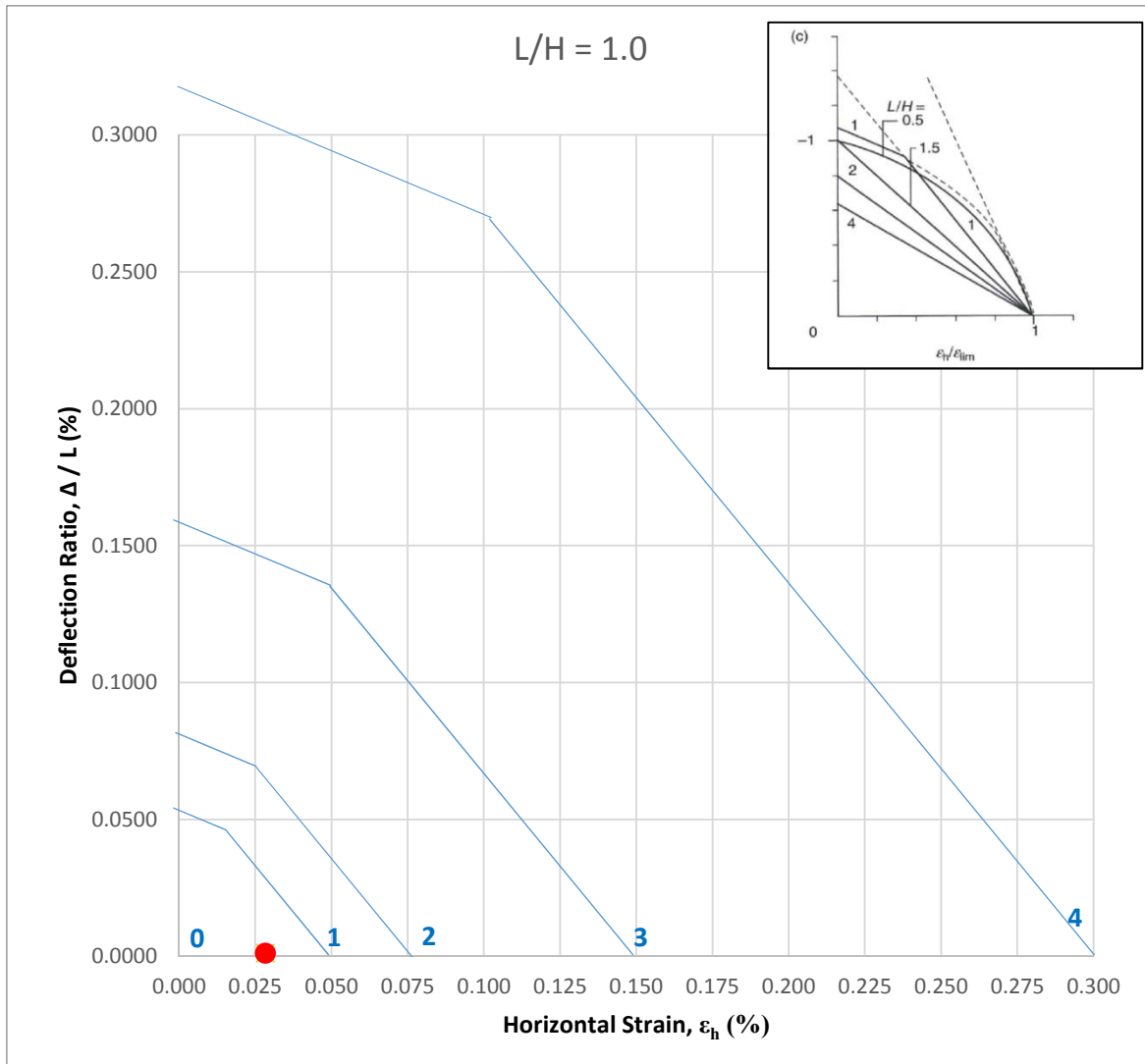
$$\begin{aligned} \text{Vertical deflection} &= \frac{\Delta \times 100}{L \times 1000} \\ &= 0.0000 \end{aligned}$$

Project Number J1524A9A

Revision 0.0

Wall Reference 4

L / H = 0.50

Wall Length, $L = 6.0$ mWall Height, $H = 12.0$ mChange in horizontal movement, $\delta_h = 1.7$ mmChange in vertical movement, $\Delta = 0.07$ mm

Horizontal deflection:

$$\text{Horizontal deflection, } \epsilon_h = \frac{\delta_h \times 100}{L \times 1000}$$

$$\epsilon_h = 0.0283$$

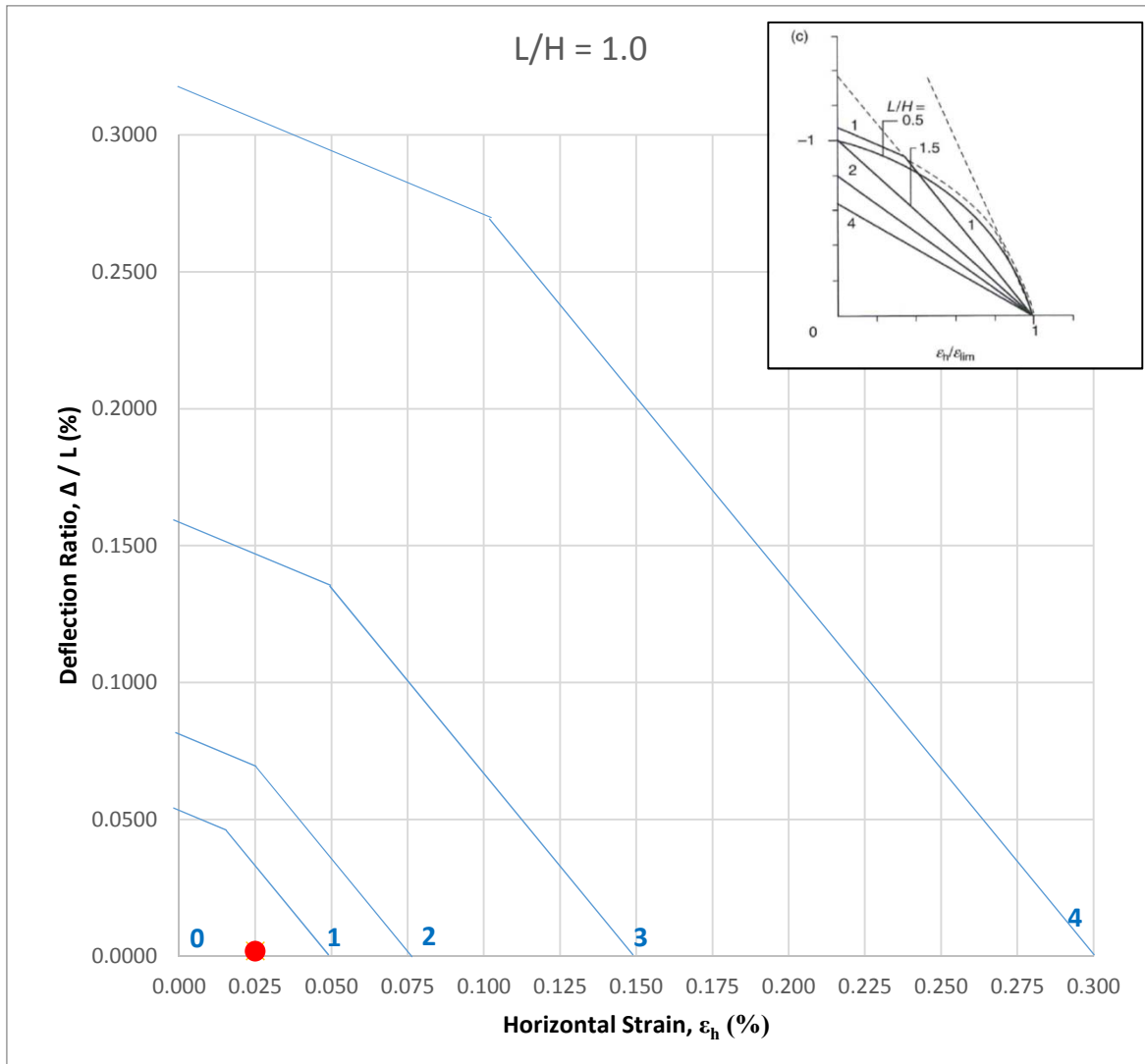
Vertical deflection:

$$\text{Vertical deflection} = \frac{\Delta \times 100}{L \times 1000}$$

$$= 0.0012$$

Project Number J15249A
Revision 0.0
Wall Reference 6

L / H = 0.40



Wall Length, L = 6.0 m

Wall Height, H = 15.0 m

Change in horizontal movement, δ_h = 1.5 mm

Change in vertical movement, Δ = 0.115 mm

Horizontal deflection:

$$\text{Horizontal deflection, } \epsilon_h = \frac{\delta_h \times 100}{L \times 1000}$$

$$\epsilon_h = 0.0250$$

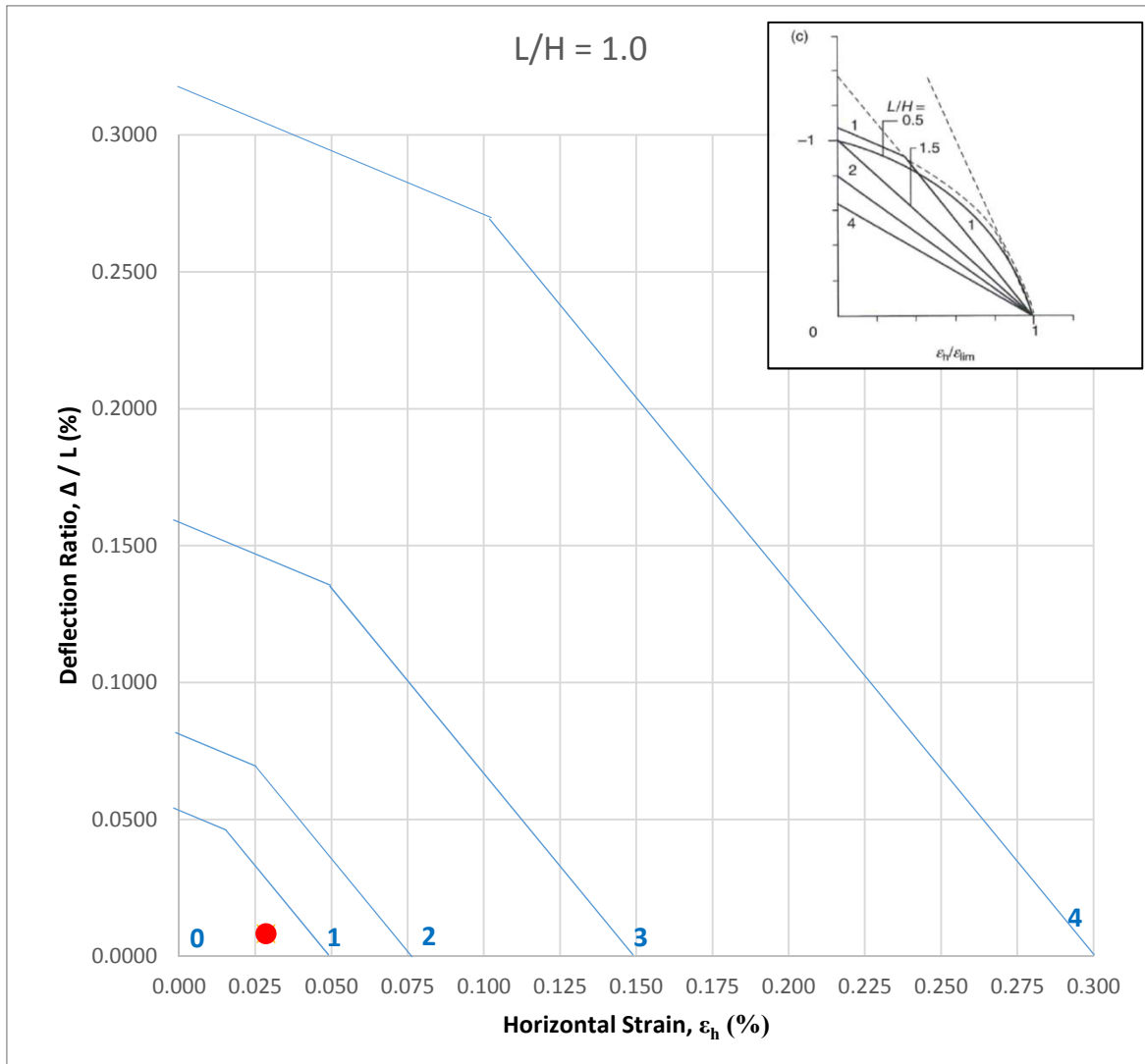
Vertical deflection:

$$\text{Vertical deflection} = \frac{\Delta \times 100}{L \times 1000}$$

$$= 0.0019$$

Project Number J15249A
Revision 0.0
Wall Reference 9

L / H = 0.39



Wall Length, $L = 7.0$ m
Wall Height, $H = 18.0$ m
Change in horizontal movement, $\delta_h = 2$ mm
Change in vertical movement, $\Delta = 0.58$ mm

Horizontal deflection:

$$\text{Horizontal deflection, } \epsilon_h = \frac{\delta_h \times 100}{L \times 1000}$$

$$\epsilon_h = 0.0286$$

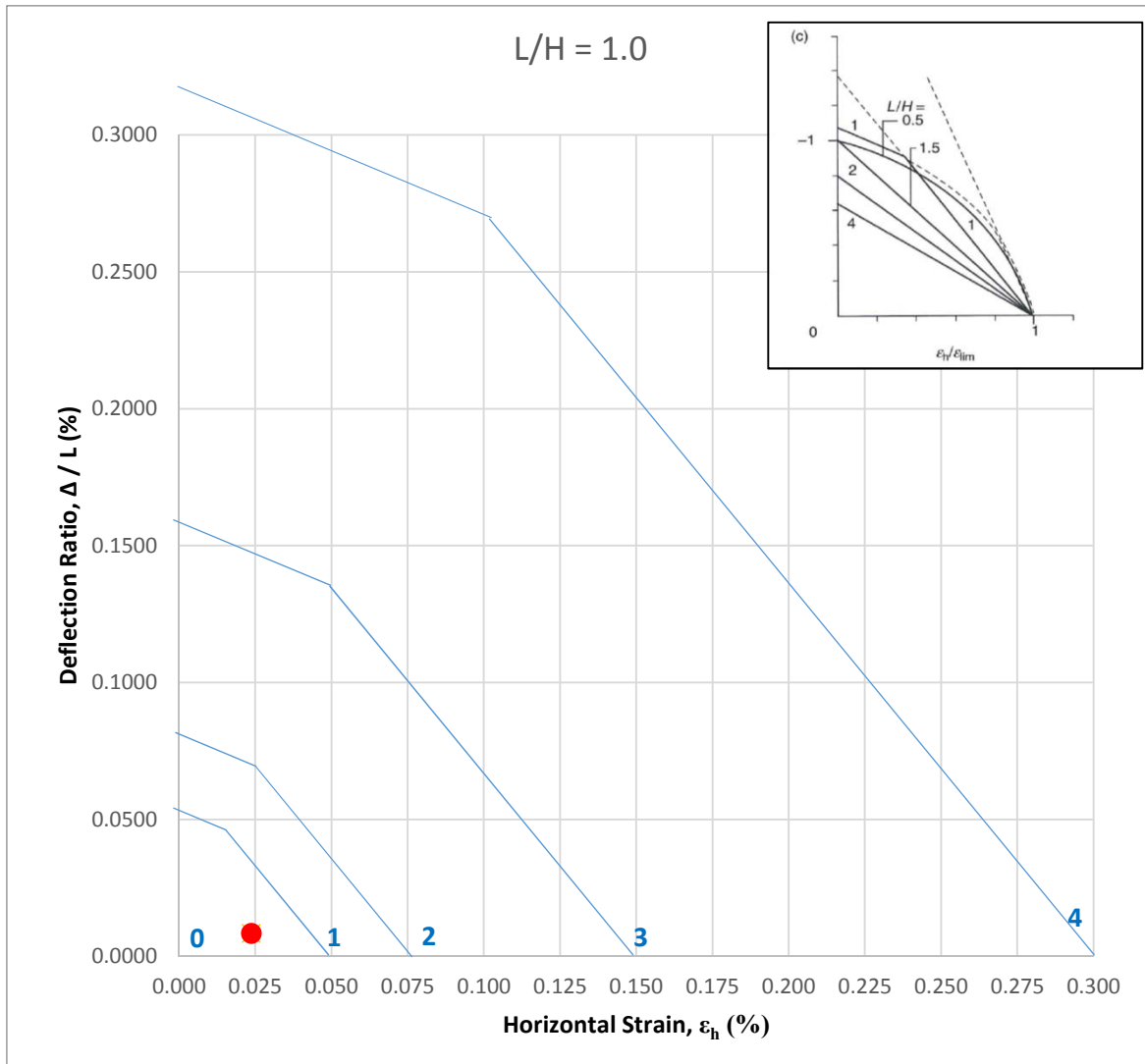
Vertical deflection:

$$\text{Vertical deflection} = \frac{\Delta \times 100}{L \times 1000}$$

$$= 0.0083$$

Project Number J15249A
Revision 0.0
Wall Reference 11

L / H = 0.44



Wall Length, $L = 8.0$ m

Wall Height, $H = 18.0$ m

Change in horizontal movement, $\delta_h = 1.9$ mm

Change in vertical movement, $\Delta = 0.67$ mm

Horizontal deflection:

$$\text{Horizontal deflection, } \epsilon_h = \frac{\delta_h \times 100}{L \times 1000}$$

$$\epsilon_h = 0.0238$$

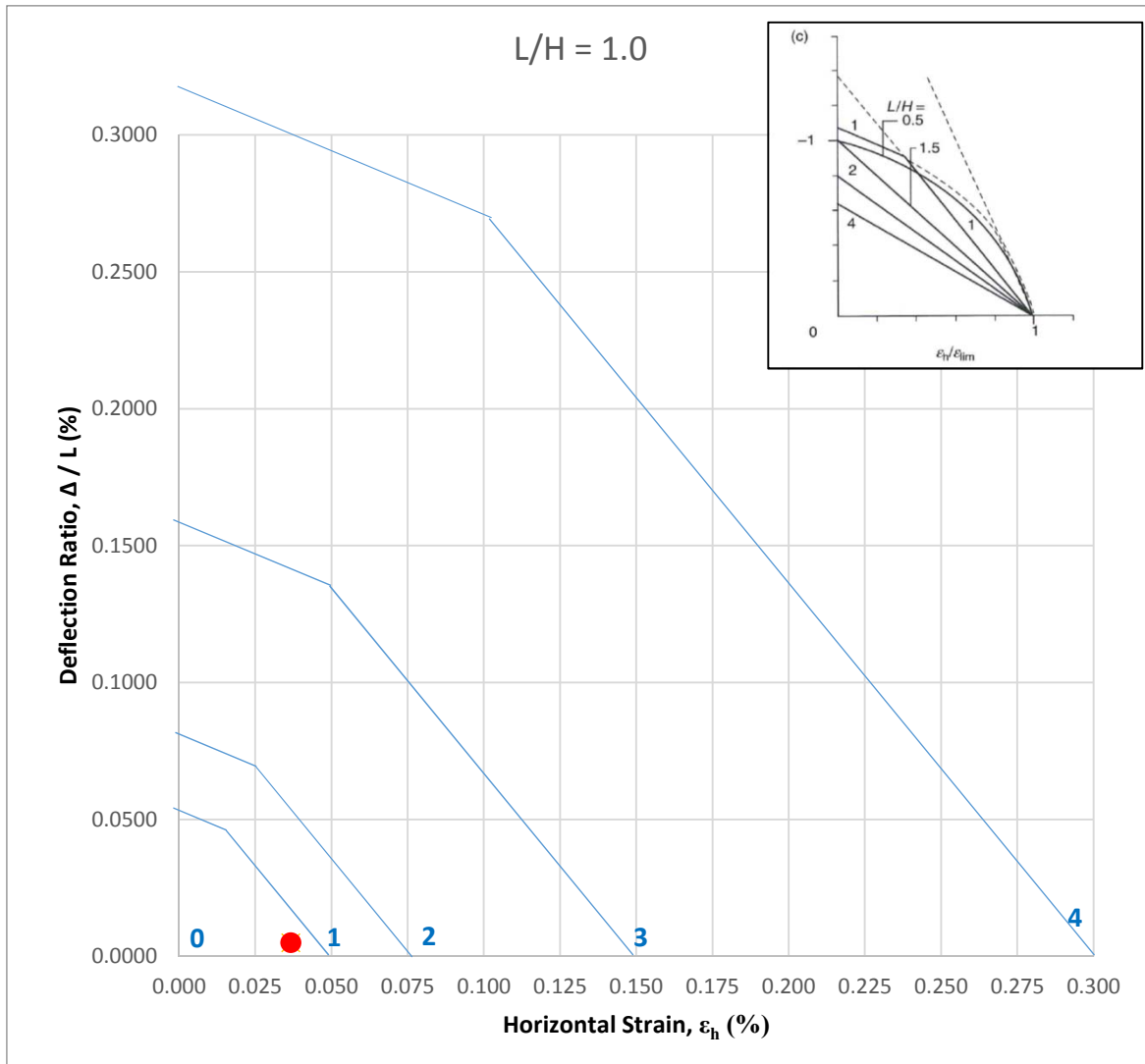
Vertical deflection:

$$\text{Vertical deflection} = \frac{\Delta \times 100}{L \times 1000}$$

$$= 0.0084$$

Project Number J15249A
Revision 0.0
Wall Reference 13

L / H = 0.33



Wall Length, $L = 6.0$ m
Wall Height, $H = 18.0$ m
Change in horizontal movement, $\delta_h = 2.2$ mm
Change in vertical movement, $\Delta = 0.3$ mm

Horizontal deflection:

$$\text{Horizontal deflection, } \epsilon_h = \frac{\delta_h \times 100}{L \times 1000}$$

$$\epsilon_h = 0.0367$$

Vertical deflection:

$$\begin{aligned} \text{Vertical deflection} &= \frac{\Delta \times 100}{L \times 1000} \\ &= 0.0050 \end{aligned}$$

Geotechnical & Environmental Associates (GEA) is an engineer-led and client-focused independent specialist providing a complete range of geotechnical and contaminated land investigation, analytical and consultancy services to the property and construction industries.

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