

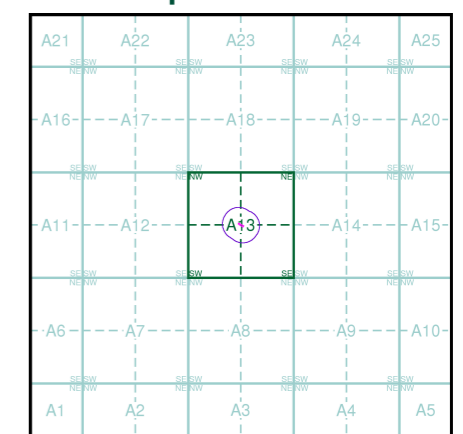
10k Raster Mapping
Published 2006
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

TQ28NE	TQ38NW
2006	2006
1:10,000	1:10,000
TQ28SE	TQ38SW
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

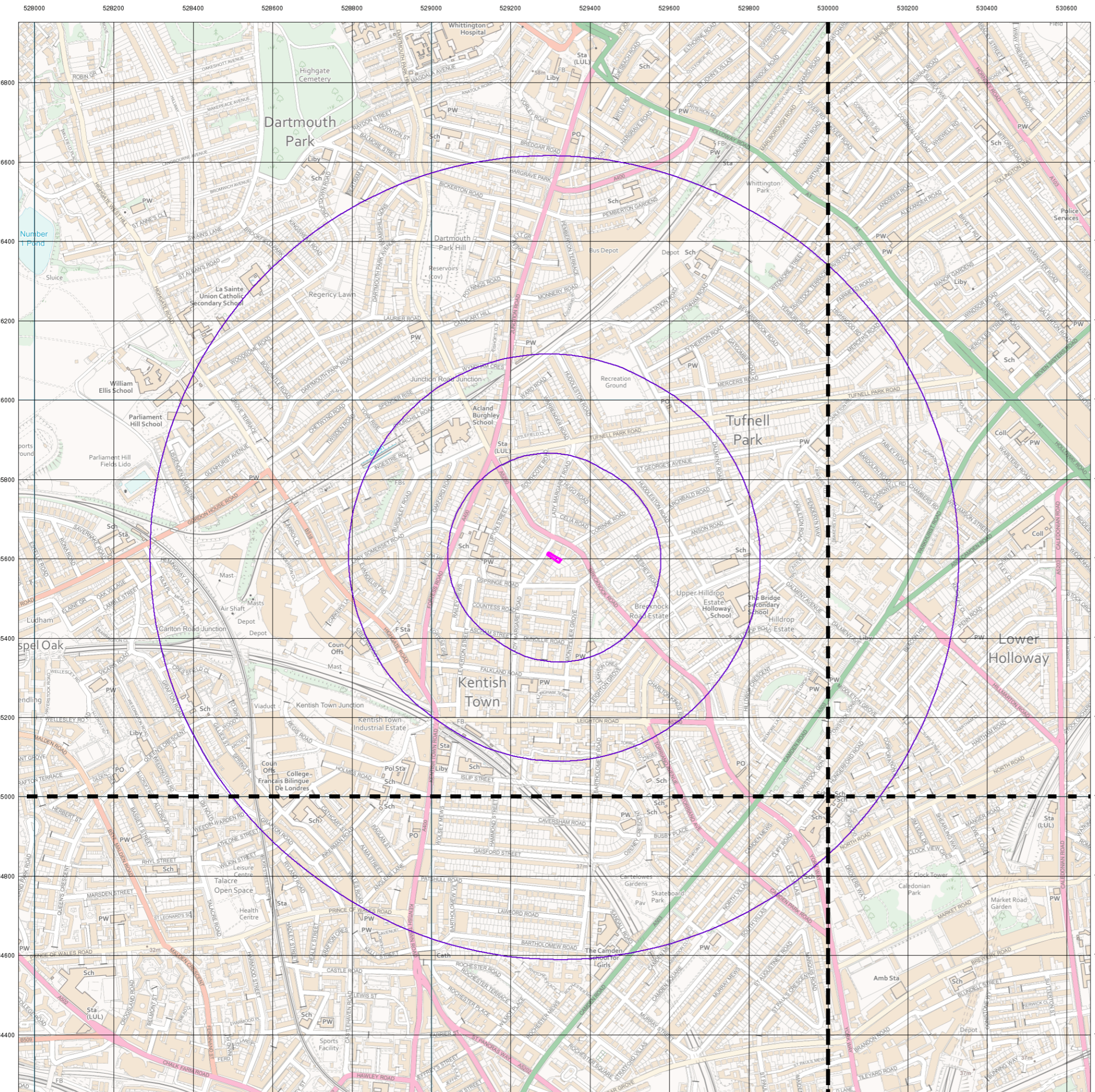
Order Number: 307672129_1_1
 Customer Ref: J23059
 National Grid Reference: 529310, 185600
 Slice: A
 Site Area (Ha): 0.04
 Search Buffer (m): 1000

Site Details

70, Lady Margaret Road, LONDON, NW5 2NP



Tel: 0844 844 9952
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



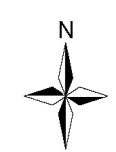
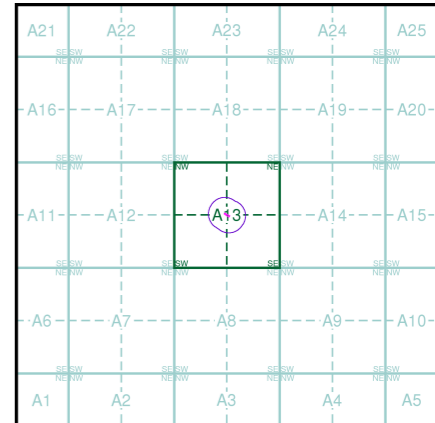
VectorMap Local
Published 2022
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

TQ28NE 2022 Variable	TQ38NW 2022 Variable
TQ28SE 2022 Variable	TQ38SW 2022 Variable

Historical Map - Slice A



Order Details

Order Number: 307672129_1_1
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Site Details

70, Lady Margaret Road, LONDON, NW5 2NP



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Preliminary UXO Risk Assessment

Client	GEA Ltd.
Project	70 Lady Margaret Road, London
Site Address	70 Lady Margaret Road, London NW5 2NP
Report Reference	PA17472-00
Date	27/02/23
Authored by	ERG
Quality Assurance	AT

Assessment Objective

This preliminary risk assessment is a qualitative screening exercise to assess the likely potential of encountering unexploded ordnance (UXO) at the 70 Lady Margaret Road, London site. The assessment involves the consideration of the basic factors that affect the potential for UXO to be present at a site as outlined in Stage One of the UXO risk management process.

Background

This assessment uses the sources of information available in-house to 1st Line Defence Ltd to enable the placement of a development site in context with events that may have led to the presence of German air-delivered or Allied military UXO. The report will identify any immediate necessity for risk mitigation or additional research in the form of a Detailed UXO Risk Assessment. It makes use of 1st Line Defence’s extensive historical archives, library and unique geo-databases, as well as internet resources, and is researched and compiled by UXO specialists and graduate researchers.

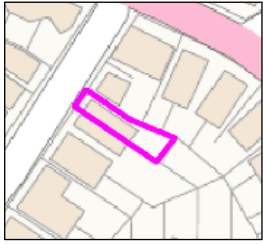
The assessment directly follows CIRIA C681 guidelines “Unexploded Ordnance, a Guide for the Construction Industry”. The document will therefore assess the following factors:

- Basic Site Data
- Previous Military Use
- Indicators of potential aerial delivered UXO threat
- Consideration of any Mitigating Factors
- Extent of Proposed Intrusive Works
- Any requirement for Further Work

It should be noted that the vast majority of construction sites in the UK will have a low or negligible risk of encountering UXO and should be able to be screened out at this preliminary stage. The report is meant as a common sense ‘first step’ in the UXO risk management process. The content of the report and conclusions drawn are based on basic, preliminary research using the information available to 1st Line Defence at the time this report was produced. It should be noted that the only way to entirely negate risk from UXO to a project would be to support the works proposed with appropriate UXO risk mitigation measures. It is rarely possible to state that there is absolutely ‘no’ risk from UXO to a project.





Risk Assessment Considerations	
<p>Site location and description/current use</p>	<p>The site is located at No.70 Lady Margaret Road, within the London Borough of Camden.</p> <p>The site is bound by Lady Margaret Road and residential properties to the north and west and residential properties and their associated gardens to the east and south.</p> <p>According to recent aerial photography the site currently comprises a multi-storey residential property and garden area.</p> <p>The site is approximately centred on the OS grid reference: TQ 29302 85613.</p> 
<p>Are there any indicators of current/historical military activity on/close to the site?</p>	<p>In-house records do not indicate that the site footprint had any former military use. No features such as WWII defensive positions, encampments or firing ranges are recorded to have been located at or in the immediate vicinity of the site. In addition, no information of ordnance being stored, produced, or disposed of within the proposed site boundary could be found.</p> <p>The closest Heavy Anti-Aircraft (HAA) battery was positioned approximately 1.8km north-west of the site in the vicinity of Hampstead Heath. The conditions in which unexploded anti-aircraft ordnance may have fallen unrecorded are generally analogous to that of aerial delivered German bombs.</p>
<p>What was the pre- and post-WWII history of the site?</p>	<p>Pre-WWII OS mapping dated 1915-1916 shows the site to comprise a terraced residential property and associated garden. The site is bound by <i>Lady Margaret Road</i>, garden areas and a <i>P.O.</i> (Post Office) to the north, residential properties and garden areas to the east and south, and residential properties and <i>Lady Margaret Road</i> to the west.</p> <p>Post-WWII OS mapping dated 1954-1955 records a small structure in the north of the site to have been removed. In the vicinity, a small section of the <i>P.O.</i> to the north is also missing.</p>
<p>Was the area subject to bombing during WWII?</p>	<p>During WWII the site was located within the Metropolitan Borough of St. Pancras. According to Home Office bombing statistics, this borough was subject to an overall very high density of bombing; with 258.4 items of ordnance falling per 1,000 acres. This comprised 641 high explosive (HE) bombs, eight parachute mines, 14 oil bombs, 11 phosphorus bombs, 20 V-1 pilotless aircraft bombs and two V-2 long range rockets; culminating in 696 items of ordnance over the 2,694 acre district.</p> <p>London Bomb Census mapping records the closest bomb strike at the junction of Lady Margaret Road and Brecknock Road.</p>
<p>Is there any evidence of bomb damage on/close to the site?</p>	<p>London County Council bomb damage mapping does not record the structures on site to have suffered any damage during WWII. The closest damage is recorded as <i>general blast damage; not structural</i> to properties approximately 25m north and 45m south and west of the site.</p> <p>Available aerial photography dated June 1941 and May 1946 does not indicate any obvious damage to the structures on or immediately bordering the site boundary. The garden area also appears to be fairly regimented; with no obvious indications of bomb damage, such as cratering.</p>





To what degree would the site have been subject to access?	During WWII the site was located within a highly urban/residential area of London. It is therefore likely that the site would have been subject to regular access and monitor from local residents. Increased access increases the likelihood that items of UXO would have been spotted, recorded and dealt with at the time.
To what degree has the site been developed post-WWII?	Since WWII the site has remained a residential property. A structure has been built bordering the site to the north.
What is the nature and extent of the intrusive works proposed?	According to GEA Ltd. the current scope of works consists of a single borehole.

Summary and Conclusions

During WWII the site was located within the Metropolitan Borough of St. Pancras. According to Home Office bombing statistics, this borough was subject to an overall very high density of bombing, with 258.4 items of ordnance recorded per 1,000 acres.

London Bomb Census mapping records the closest bomb strike at the junction of Lady Margaret Road and Brecknock Road. This lack of bombing on site is corroborated within the LCC bomb damage map, which does not record any damage to structures on, or immediately bordering the site boundary. The closest damage is recorded approximately 25m north and 45m south and west. Available aerial photography dated June 1941 and May 1946 does not indicate any obvious damage to the structures on or immediately bordering the site boundary.

Further to this, as the site was located within a highly urban/residential area of London, access and monitor is considered to have been regular. Areas with increased access, increase the likelihood that items of UXO would have been spotted, recorded and dealt with at the time.

Recommendations

Given the findings of this preliminary report, the risk from UXO on site is not considered to be significantly elevated above the 'background level' for this area of the country. It is therefore recommended that **no further research** be taken at this site. Whilst it would be possible to conduct a Detailed UXO Risk Assessment to analyse further archival resources, it is not thought likely that the acquisition of such records would significantly alter the findings of this report.

If the client has any anecdotal or empirical evidence of UXO risk on site, please contact 1st Line Defence.





It should be noted that although the risk from unexploded ordnance on this site has been assessed as low/minimal, this does not mean there is 'no' risk of encountering UXO. This preliminary report has been undertaken with due diligence, and all reasonable care has been taken to access and analyse relevant historical information. By necessity, when dealing with historical evidence, and when making assessments of UXO risk, various assumptions have to be made which we have discussed and justified within this report. Our reports take a common-sense and practical approach to the assessment of UXO risk, and we strive to be reasonable and pragmatic in our conclusions. As referenced, it would be possible to undertake further research into this site, but based on the evidence to hand, this is not deemed strictly necessary, and no reasonably justifiable requirement for proactive on-site mitigation has been identified.

It should however be stressed that if any suspect items are encountered during the proposed works, 1st Line Defence should be contacted for advice/assistance, and to re-assess the risk as necessary. Furthermore, we would recommend that ground personnel are always made aware of the potential for encountering UXO, what to look out for and what to do in the unlikely event that a suspect item is encountered, and that a UXO Risk Management Plan is put together for the proposed works. We would be happy to provide a template and guidance for this – contact us on 01992 245020. Should the scope of works change or additional works be proposed, 1st Line Defence should be contacted to re-evaluate the risk.





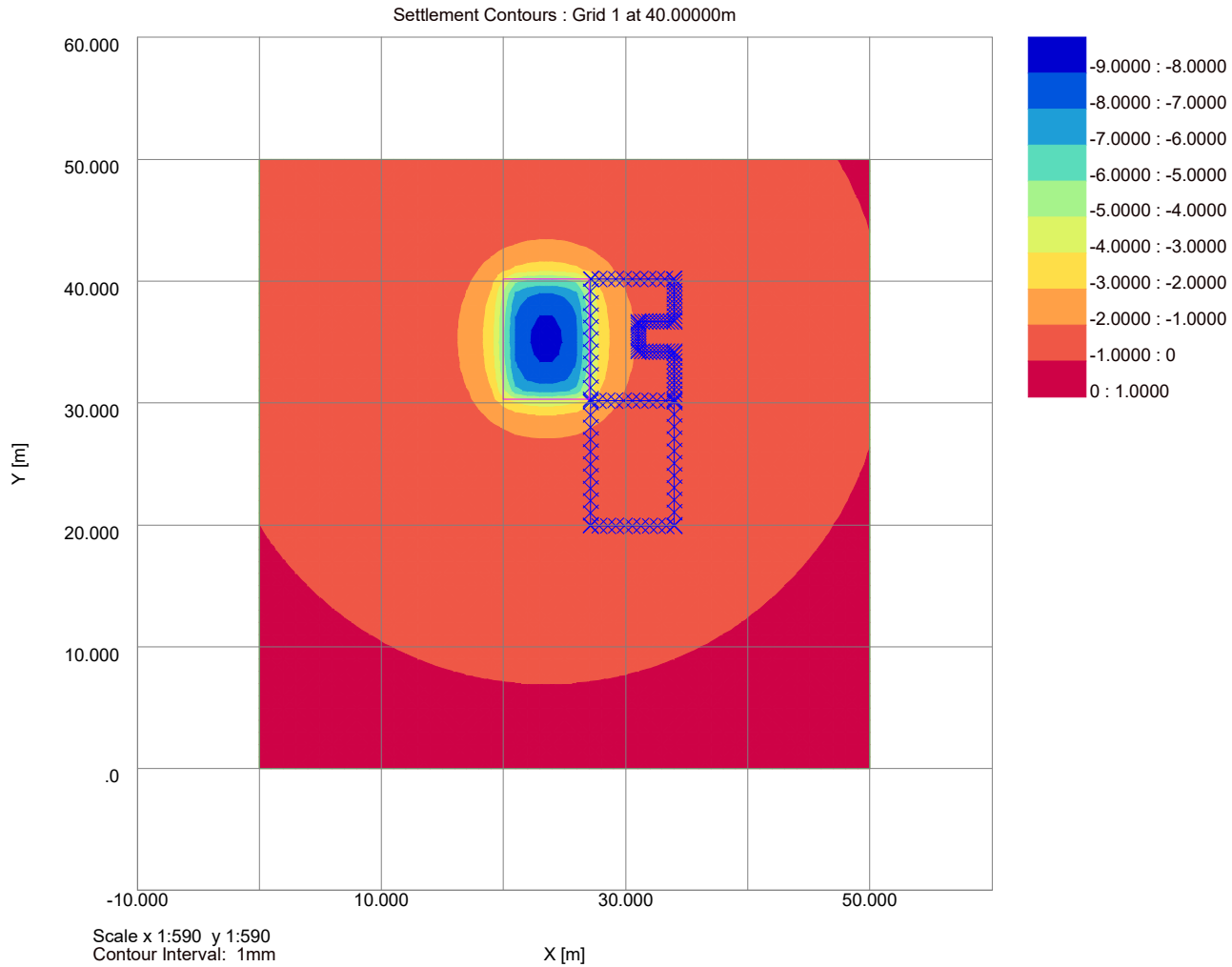
appendix d

Ground Movement Analysis

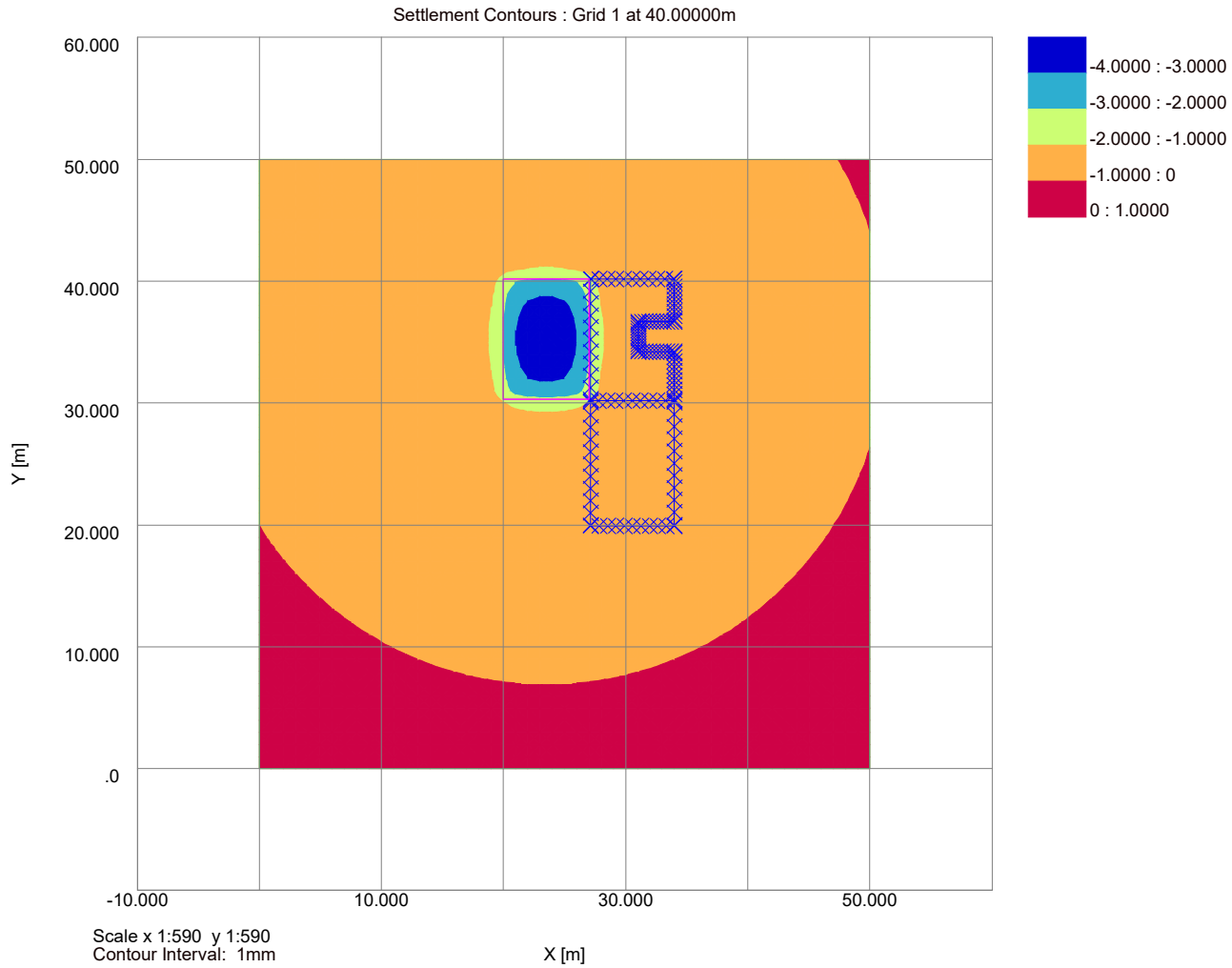
- GMA Reference Plan
- XDisp Analysis – All Input Data
- XDisp Analysis – Installation Movements
- XDisp Analysis – Installation & Excavation Movements
- XDisp Analysis – Building Damage Assessment Results

- PDisp Analysis – All Input Data
- PDisp Analysis – Short Term Movements
- PDisp Analysis – Total Movements

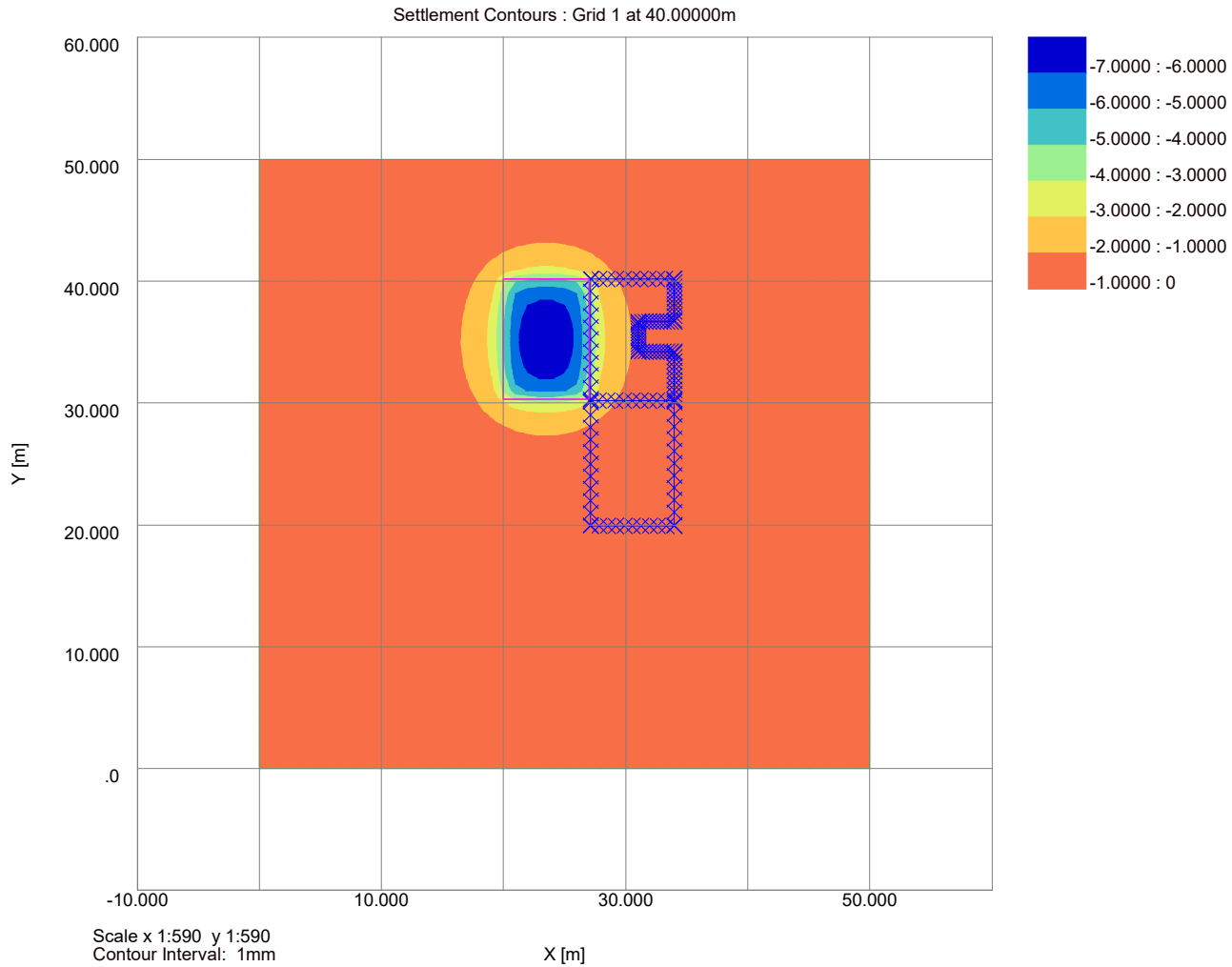
Job No.	Sheet No.	Rev.
J23059		
Drg. Ref.		
Made by AT	Date	Checked Date



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J23059		
Drg. Ref.		
Made by AT	Date	Checked Date

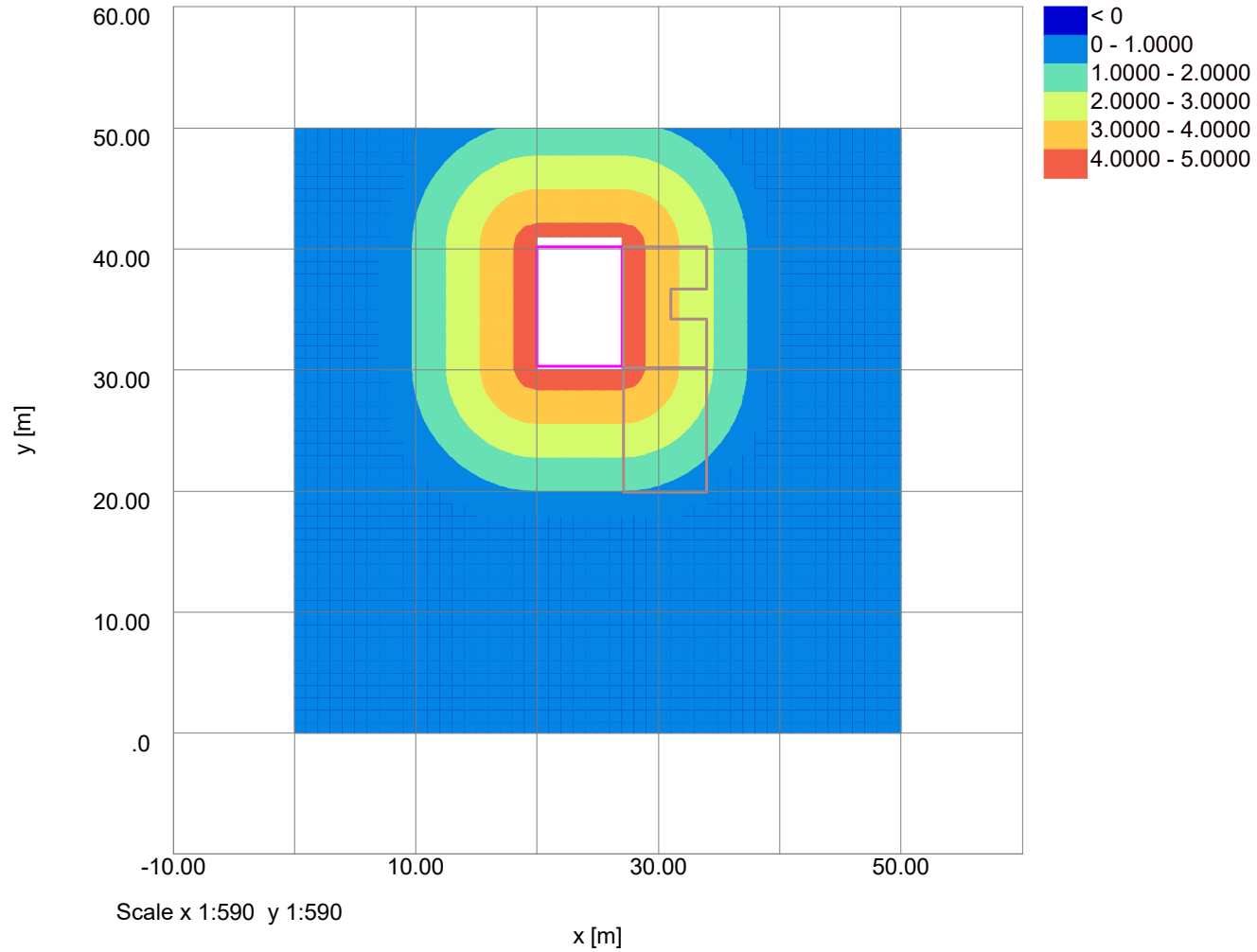


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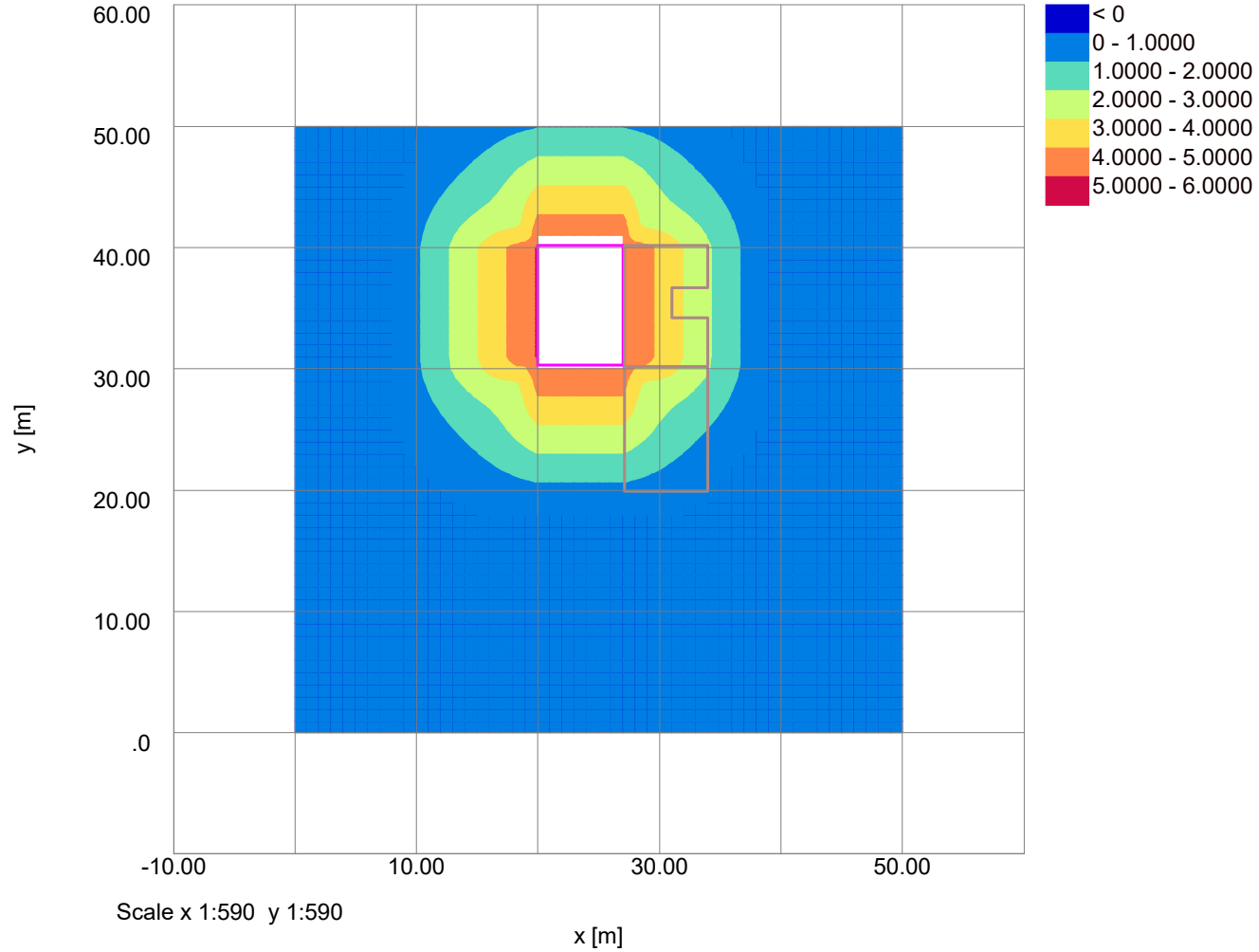
Job No.	Sheet No.	Rev.
J23059		
Drg. Ref.		
Made by AT	Date 25-Apr-2023	Checked Date

Vertical Settlement Contours: Grid 1 (level 40.000m) (Interval 1mm)



Job No.	Sheet No.	Rev.
J23059		
Drg. Ref.		
Made by AT	Date 25-Apr-2023	Checked Date

Horizontal Displacement Contours: Grid 1 (level 40.000m) Interval 1mm





70 Lady Margaret Road

GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

Job No. Sheet No. Rev.

J23059

Drg. Ref.

Made by Date Checked Date
AT 25-Apr-2023

Titles

Job No.: J23059
Job Title: 70 Lady Margaret Road
Sub-title:
Calculation Heading:
Initials: AT
Checker:
Date Saved: 25-Apr-2023
Date Checked:
Notes:
File Name: XDisp - Overall.xdd
File Path: G:\Shared\GEA\PROJECTS\2023\J23059 - 70 Lady Margaret Road\GMA Info

History

Date	Time	By	Notes
25-Apr-2023	13:41	Alex Taylor	New
25-Apr-2023	14:45	Alex Taylor	
25-Apr-2023	15:02	Alex Taylor	
25-Apr-2023	15:27	Alex Taylor	
26-Apr-2023	09:08	Alex Taylor	
03-May-2023	08:08	Alex Taylor	
03-May-2023	08:08	Alex Taylor	Open

Displacement Lines

Ref.	Name	x1	y1	z1	x2	y2	z2	Intervals	Surface	Interpolate	
Calculate		[m]	[m]	[m]	[m]	[m]	[m]	[No.]	type for tunnels	imported for displacements	
1	68 LMR - Wall 1	27.10000	20.00000	38.40000	27.10000	30.10000	38.40000	10	Surface	Yes	Yes
2	68 LMR - Wall 2	27.10000	30.20000	38.40000	34.00000	30.20000	38.40000	10	Surface	Yes	Yes
3	68 LMR - Wall 3	34.00000	30.10000	38.40000	34.00000	20.00000	38.40000	10	Surface	Yes	Yes
4	68 LMR - Wall 4	34.00000	19.90000	38.40000	27.10000	19.90000	38.40000	10	Surface	Yes	Yes
5	68 LMR - Wall 5	27.10000	30.30000	39.30000	27.10000	40.20000	39.30000	10	Surface	Yes	Yes
6	68 LMR - Wall 6	27.20000	40.20000	39.30000	33.90000	40.20000	39.30000	10	Surface	Yes	Yes
7	68 LMR - Wall 7	34.00000	40.20000	39.30000	34.00000	36.80000	39.30000	10	Surface	Yes	Yes
8	68 LMR - Wall 8	34.00000	36.70000	39.30000	31.00000	36.70000	39.30000	10	Surface	Yes	Yes
9	68 LMR - Wall 9	31.00000	36.60000	39.30000	31.00000	34.30000	39.30000	10	Surface	Yes	Yes
10	68 LMR - Wall 10	31.00000	34.20000	39.30000	34.00000	34.20000	39.30000	10	Surface	Yes	Yes
11	68 LMR - Wall 11	34.00000	34.10000	39.30000	34.00000	30.30000	39.30000	10	Surface	Yes	Yes

Displacement Grids

Ref.	Name	Extrusion:	Base	Base	Base	Base	Base	Base	Base	Extrusion:	Extrusion:	Surface
Calculate		Direction	line start:	line start:	line start:	line end:	line end:	line end:	line end:	Distance	Intervals	type for tunnels
			X	Y	Z (level)	X	Y	Z (level)		[m]	[No.]	
			[m]	[m]	[m]	[m]	[m]	[m]	[No.]	[m]	[No.]	
1	Grid 1	Global X	0.00000	0.00000	40.00000	-	50.00000	40.00000	50	50.00000	50	Surface
Yes												

Polygonal Excavations



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Ref.	Name	Extrusion:	Base	Base	Base	Base	Base	Base	Base	Extrusion:	Extrusion:	Surface
Calculate	Direction	line	line	line	line	line	line	line	line	Distance	Intervals	type
		start:	start:	start:	end:	end:	Y	end:	Intervals			for

Ref. 1
Excavation Name: Retaining Wall Installation
 Surface level [m]: 40.000
 Contribution: Positive
 Surface movement curves which are selected are applied between surface and [m]: 37.000

Corner	x	y	Base Level	Arc Enabled	Stiffened	Prev. Side	Prev. Side: d	Prev. Side: p1	Prev. Side: p2*	Next Side	Next Side: d	Next Side: p1	Next Side: p2*
	[m]	[m]	[m]			[m]	[m]	[%]	[%]	[m]	[m]	[%]	[%]
1	20.000	30.300	37.000	Yes	No	-	-	-	-	-	-	-	-
2	20.000	40.200	37.000	Yes	No	-	-	-	-	-	-	-	-
3	27.000	40.200	37.000	Yes	No	-	-	-	-	-	-	-	-
4	27.000	30.300	37.000	Yes	No	-	-	-	-	-	-	-	-

Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
1	20.000	30.300	20.000	40.200	Copy of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	Copy of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
2	20.000	40.200	27.000	40.200	Copy of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	Copy of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
3	27.000	40.200	27.000	30.300	Copy of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	Copy of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))
4	27.000	30.300	20.000	30.300	Copy of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(b))	Copy of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15(a))

Circular Excavations

Vertical Ground Movement Curves

Curve Name: Copy of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15 (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) (%)]
 [0.000,0.000,0.085] [0.100,0.000,0.107] [0.200,0.000,0.123] [0.300,0.000,0.136]
 [0.400,0.000,0.147] [0.500,0.000,0.153] [0.600,0.000,0.158] [0.700,0.000,0.160]
 [0.800,0.000,0.160] [0.900,0.000,0.158] [1.000,0.000,0.153] [1.100,0.000,0.149]
 [1.200,0.000,0.142] [1.300,0.000,0.134] [1.400,0.000,0.127] [1.500,0.000,0.118]
 [1.600,0.000,0.110] [1.700,0.000,0.101] [1.800,0.000,0.092] [1.900,0.000,0.083]
 [2.000,0.000,0.075] [2.100,0.000,0.066] [2.200,0.000,0.059] [2.300,0.000,0.050]
 [2.400,0.000,0.044] [2.500,0.000,0.037] [2.600,0.000,0.031] [2.700,0.000,0.026]
 [2.800,0.000,0.022] [2.900,0.000,0.018] [3.000,0.000,0.015] [3.100,0.000,0.011]
 [3.200,0.000,0.090] [3.300,0.000,0.090] [3.400,0.000,0.070] [3.500,0.000,0.040]
 [3.600,0.000,0.040] [3.700,0.000,0.040] [3.800,0.000,0.020] [3.900,0.000,0.020]
 [4.000,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -4.E-2x + 2.E-1
Coeff. of Determination: 7.E-1

Horizontal Ground Movement Curves

Curve Name: Copy of Exc. in front of high stiffness wall in stiff clay (CIRIA C760 Fig. 6.15 (a))



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Side	x1 [m]	y1 [m]	x2 [m]	y2 [m]	G.M. Curve: Vertical	G.M. Curve: Horizontal
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) (%)]						
[0.000,0.000,0.169][4.000,0.000,0.000]						
Curve Fitting Method: Polynomial						
x Order: 1						
y Order: 0						
Polynomial: z = -4.23E-2x + 1.69E-1						
Coeff. of Determination: 1.00						

Damage Category Strains

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

Specific Buildings - Geometry

Ref. Category	Building Name	Poisson's Ratio	Sub-Building Name	Displacement	Line Distance	Distance	Vertical Offsets from	Vertical Displacement	Damage
Strains					Along	Along	Line for Vertical Movement Calculations	Limit Sensitivity	
					Line: Start	Line: End			
					[m]	[m]	[m]	[mm]	
1	68 Lady Margaret Road	0.20000	Wall 1	68 LMR - Wall 1	0.00000	10.10000	0.0	0.10000	Burland
2	68 Lady Margaret Road	0.20000	Wall 2	68 LMR - Wall 2	0.00000	6.89900	0.0	0.10000	Burland
3	68 Lady Margaret Road	0.20000	Wall 3	68 LMR - Wall 3	0.00000	10.10000	0.0	0.10000	Burland
4	68 Lady Margaret Road	0.20000	Wall 4	68 LMR - Wall 4	0.00000	6.89900	0.0	0.10000	Burland
5	68 Lady Margaret Road	0.20000	Wall 5	68 LMR - Wall 5	0.00000	9.90000	0.0	0.10000	Burland
6	68 Lady Margaret Road	0.20000	Wall 6	68 LMR - Wall 6	0.00000	6.69900	0.0	0.10000	Burland
7	68 Lady Margaret Road	0.20000	Wall 7	68 LMR - Wall 7	0.00000	3.40000	0.0	0.10000	Burland
8	68 Lady Margaret Road	0.20000	Wall 8	68 LMR - Wall 8	0.00000	3.00000	0.0	0.10000	Burland
9	68 Lady Margaret Road	0.20000	Wall 9	68 LMR - Wall 9	0.00000	2.30000	0.0	0.10000	Burland
10	68 Lady Margaret Road	0.20000	Wall 10	68 LMR - Wall 10	0.00000	3.00000	0.0	0.10000	Burland
11	68 Lady Margaret Road	0.20000	Wall 11	68 LMR - Wall 11	0.00000	3.80000	0.0	0.10000	Burland

Specific Buildings - Bending Parameters

Ref. Sagging:	Building Name	Sub-Building Name	Height Default	Hogging:	Hogging:	Hogging:	Sagging:	Sagging:
				2nd Mom.	Dist. of	Dist. of	2nd Mom.	Dist. of
				of Area	Bending	N.A. from	of Area	Bending
				(per unit	Strain	Edge of	(per unit	Strain
				width)	from N.A.	Beam in	width)	from N.A.
				Beam in				



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Job No.	Sheet No.	Rev.
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Made by AT	Date 25-Apr-2023	Checked Date

Tension		Tension						
[m]	[m]	[m ³]	[m]	[m]	[m ³]	[m]	[m]	
1 68 Lady Margaret Road Wall 1	12.100	Yes	590.52	12.100	12.100	147.63	6.0500	
2 68 Lady Margaret Road Wall 2	12.100	Yes	590.52	12.100	12.100	147.63	6.0500	
3 68 Lady Margaret Road Wall 3	12.100	Yes	590.52	12.100	12.100	147.63	6.0500	
4 68 Lady Margaret Road Wall 4	12.100	Yes	590.52	12.100	12.100	147.63	6.0500	
5 68 Lady Margaret Road Wall 5	4.2000	Yes	24.696	4.2000	4.2000	6.1740	2.1000	
6 68 Lady Margaret Road Wall 6	4.2000	Yes	24.696	4.2000	4.2000	6.1740	2.1000	
7 68 Lady Margaret Road Wall 7	4.2000	Yes	24.696	4.2000	4.2000	6.1740	2.1000	
8 68 Lady Margaret Road Wall 8	4.2000	Yes	24.696	4.2000	4.2000	6.1740	2.1000	
9 68 Lady Margaret Road Wall 9	4.2000	Yes	24.696	4.2000	4.2000	6.1740	2.1000	
10 68 Lady Margaret Road Wall 10	4.2000	Yes	24.696	4.2000	4.2000	6.1740	2.1000	
11 68 Lady Margaret Road Wall 11	4.2000	Yes	24.696	4.2000	4.2000	6.1740	2.1000	

Specific Buildings - Segment Combinations

Stage:	Stage Name	Building:	Building Name	Sub-Building	Vertical	Segment	Start	Length	Curvature
Ref.	Ref.	Name	Offset from Line for Vertical Movement Calculations	[m]	[m]	[m]			
0	Base Model	1	68 Lady Margaret Road Wall 1	0.0	No combined segments for this stage,				
	specific building and offset	2	68 Lady Margaret Road Wall 2	0.0	No combined segments for this stage,				
	specific building and offset	3	68 Lady Margaret Road Wall 3	0.0	No combined segments for this stage,				
	specific building and offset	4	68 Lady Margaret Road Wall 4	0.0	No combined segments for this stage,				
	specific building and offset	5	68 Lady Margaret Road Wall 5	0.0	No combined segments for this stage,				
	specific building and offset	6	68 Lady Margaret Road Wall 6	0.0	7	0.0	0.0	None	
1		7	68 Lady Margaret Road Wall 7	0.0	No combined segments for this stage,				
	specific building and offset	8	68 Lady Margaret Road Wall 8	0.0	10	0.0	0.0	None	
0		9	68 Lady Margaret Road Wall 9	0.0	No combined segments for this stage,				
	specific building and offset	10	68 Lady Margaret Road Wall 10	0.0	13	0.0	1.5708	Hogging	
1		11	68 Lady Margaret Road Wall 11	0.0	No combined segments for this stage,				
	specific building and offset								

Warnings

None



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Stage:	Stage:	Name	Building:	Building:	Name	Sub-Building	Vertical	Segment	Start	Length	Curvature
Combined	Segment	Ref.	Ref.	Name	Offset from	Line for					

Errors

None

Displacement Results - Displacement Lines

Stage:	Stage:	Disp.	Disp.	Line:	Name	Chainage	x	y	z	δx	δy	δz	δH//
δHperp.	Angle	Line:	Ref.	Ref.			[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
[mm]	[°]												
0	Base Model 1	68	LMR - Wall 1	0.0	27.10000	20.00000	38.40000	-0.0044379	0.71361	0.98825			
0.71361	0.0044379	90.000											
1.1369	0.0078444	90.000			1.0100	27.10000	21.01000	38.40000	-0.0078444	1.1369	1.3507		
1.5594	0.012082	90.000			2.0200	27.10000	22.02000	38.40000	-0.012082	1.5594	1.7132		
1.9806	0.017496	90.000			3.0300	27.10000	23.03000	38.40000	-0.017496	1.9806	2.0757		
2.4002	0.024657	90.000			4.0400	27.10000	24.04000	38.40000	-0.024657	2.4002	2.4381		
2.8169	0.034573	90.000			5.0500	27.10000	25.05000	38.40000	-0.034573	2.8169	2.8005		
3.2289	0.049210	90.000			6.0600	27.10000	26.06000	38.40000	-0.049210	3.2289	3.1630		
3.6317	0.072994	90.000			7.0700	27.10000	27.07000	38.40000	-0.072994	3.6317	3.5253		
4.0127	0.11839	90.000			8.0800	27.10000	28.08000	38.40000	-0.11839	4.0127	3.8876		
4.3178	0.23922	90.000			9.0900	27.10000	29.09000	38.40000	-0.23922	4.3178	4.2494		
3.5069	1.4686	90.000			10.100	27.10000	30.10000	38.40000	-1.4686	3.5069	4.6049		
-2.5051	2.5051	2	68 LMR - Wall 2	0.0	27.10000	30.20000	38.40000	-2.5051	2.5051	4.6344			
-4.3541	0.37944	0.0			0.69000	27.79000	30.20000	38.40000	-4.3541	0.37944	4.3993		
-4.2524	0.19084	0.0			1.3800	28.48000	30.20000	38.40000	-4.2524	0.19084	4.1527		
-4.0305	0.12173	0.0			2.0700	29.17000	30.20000	38.40000	-4.0305	0.12173	3.9055		
-3.7750	0.085907	0.0			2.7600	29.86000	30.20000	38.40000	-3.7750	0.085907	3.6580		
-3.5055	0.063995	0.0			3.4500	30.55000	30.20000	38.40000	-3.5055	0.063995	3.4105		
-3.2289	0.049210	0.0			4.1400	31.24000	30.20000	38.40000	-3.2289	0.049210	3.1630		
-2.9481	0.038562	0.0			4.8300	31.93000	30.20000	38.40000	-2.9481	0.038562	2.9154		
-2.6646	0.030527	0.0			5.5200	32.62000	30.20000	38.40000	-2.6646	0.030527	2.6678		
-2.3794	0.024249	0.0			6.2100	33.31000	30.20000	38.40000	-2.3794	0.024249	2.4202		
-2.0930	0.019208	0.0			6.9000	34.00000	30.20000	38.40000	-2.0930	0.019208	2.1725		
-0.038392	-2.0729	3	68 LMR - Wall 3	0.0	34.00000	30.10000	38.40000	-2.0729	0.038392	2.1718			
-0.22541	-1.8432	270.00			1.0100	34.00000	29.09000	38.40000	-1.8432	0.22541	2.1355		
-0.38464	-1.5827	270.00			2.0200	34.00000	28.08000	38.40000	-1.5827	0.38464	2.0495		
-0.49893	-1.3139	270.00			3.0300	34.00000	27.07000	38.40000	-1.3139	0.49893	1.9182		
-0.55899	-1.0533	270.00			4.0400	34.00000	26.06000	38.40000	-1.0533	0.55899	1.7479		
					5.0500	34.00000	25.05000	38.40000	-0.81060	0.56252	1.5447		



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Stage:	Stage:	Disp.	Disp.	Line:	Name	Chainage	x	y	z	δx	δy	δz	δH//
δHperp.	Angle	Line:	Ref.										
-0.56252	-0.81060	270.00											
						6.0600	34.00000	24.04000	38.40000	-0.59031	0.51206	1.3147	
-0.51206	-0.59031	270.00				7.0700	34.00000	23.03000	38.40000	-0.39331	0.41273	1.0630	
-0.41273	-0.39331	270.00				8.0800	34.00000	22.02000	38.40000	-0.21851	0.27056	0.79375	
-0.27056	-0.21851	270.00				9.0900	34.00000	21.01000	38.40000	-0.063911	0.091557	0.51036	
-0.091557	-0.063911	270.00				10.1100	34.00000	20.00000	38.40000	0.0	0.0	0.0	
0.0	0.0	270.00											
			4	68 LMR - Wall 4		0.0	34.00000	19.90000	38.40000	0.0	0.0	0.0	
0.0	0.0	180.00				0.69000	33.31000	19.90000	38.40000	0.0	0.0	0.0	
0.0	0.0	180.00				1.3800	32.62000	19.90000	38.40000	-0.023806	0.051672	0.44241	
0.023806	-0.051672	180.00				2.0700	31.93000	19.90000	38.40000	-0.058420	0.14888	0.55439	
0.058420	-0.14888	180.00				2.7600	31.24000	19.90000	38.40000	-0.080061	0.24480	0.65425	
0.080061	-0.24480	180.00				3.4500	30.55000	19.90000	38.40000	-0.089432	0.33763	0.74107	
0.089432	-0.33763	180.00				4.1400	29.86000	19.90000	38.40000	-0.087624	0.42526	0.81397	
0.087624	-0.42526	180.00				4.8300	29.17000	19.90000	38.40000	-0.076133	0.50524	0.87215	
0.076133	-0.50524	180.00				5.5200	28.48000	19.90000	38.40000	-0.056850	0.57488	0.91493	
0.056850	-0.57488	180.00				6.2100	27.79000	19.90000	38.40000	-0.032017	0.63132	0.94178	
0.032017	-0.63132	180.00				6.9000	27.10000	19.90000	38.40000	-0.0041367	0.67166	0.95236	
0.0041367	-0.67166	180.00											
			5	68 LMR - Wall 5		0.0	27.10000	30.30000	39.30000	-5.0278	0.0	4.6492	
0.0	5.0278	90.000				0.99000	27.10000	31.29000	39.30000	-5.0278	0.0	4.6492	
0.0	5.0278	90.000				1.9800	27.10000	32.28000	39.30000	-5.0278	0.0	4.6492	
0.0	5.0278	90.000				2.9700	27.10000	33.27000	39.30000	-5.0278	0.0	4.6492	
0.0	5.0278	90.000				3.9600	27.10000	34.26000	39.30000	-5.0278	0.0	4.6492	
0.0	5.0278	90.000				4.9500	27.10000	35.25000	39.30000	-5.0278	0.0	4.6492	
0.0	5.0278	90.000				5.9400	27.10000	36.24000	39.30000	-5.0278	0.0	4.6492	
0.0	5.0278	90.000				6.9300	27.10000	37.23000	39.30000	-5.0278	0.0	4.6492	
0.0	5.0278	90.000				7.9200	27.10000	38.22000	39.30000	-5.0278	0.0	4.6492	
0.0	5.0278	90.000				8.9100	27.10000	39.21000	39.30000	-5.0278	0.0	4.6492	
0.0	5.0278	90.000				9.9000	27.10000	40.20000	39.30000	-5.0278	0.0	4.6492	
0.0	5.0278	90.000											
			6	68 LMR - Wall 6		0.0	27.20000	40.20000	39.30000	-4.9855	0.0	4.6133	
-4.9855	0.0	0.0				0.67000	27.87000	40.20000	39.30000	-4.7024	0.0	4.3729	
-4.7024	0.0	0.0				1.3400	28.54000	40.20000	39.30000	-4.4194	0.0	4.1324	
-4.4194	0.0	0.0				2.0100	29.21000	40.20000	39.30000	-4.1363	0.0	3.8919	
-4.1363	0.0	0.0				2.6800	29.88000	40.20000	39.30000	-3.8532	0.0	3.6515	
-3.8532	0.0	0.0				3.3500	30.55000	40.20000	39.30000	-3.5701	0.0	3.4110	
-3.5701	0.0	0.0				4.0200	31.22000	40.20000	39.30000	-3.2871	0.0	3.1706	
-3.2871	0.0	0.0				4.6900	31.89000	40.20000	39.30000	-3.0040	0.0	2.9301	
-3.0040	0.0	0.0											



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Drg. Ref.

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Stage: δH perp. Ref.	Stage: Angle Name	Disp. Line: Ref.	Disp. Line: Name	Chainage	x	y	z	δx	δy	δz	δH //
-2.7209	0.0	0.0		5.3600	32.56000	40.20000	39.30000	-2.7209	0.0	2.6896	
-2.4378	0.0	0.0		6.0300	33.23000	40.20000	39.30000	-2.4378	0.0	2.4492	
-2.1548	0.0	0.0		6.7000	33.90000	40.20000	39.30000	-2.1548	0.0	2.2087	
0.0	-2.1125	7 270.00	68 LMR - Wall 7	0.0	34.00000	40.20000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00		0.34000	34.00000	39.86000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00		0.68000	34.00000	39.52000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00		1.0200	34.00000	39.18000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00		1.3600	34.00000	38.84000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00		1.7000	34.00000	38.50000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00		2.0400	34.00000	38.16000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00		2.3800	34.00000	37.82000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00		2.7200	34.00000	37.48000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00		3.0600	34.00000	37.14000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00		3.4000	34.00000	36.80000	39.30000	-2.1125	0.0	2.1728	
2.1125	0.0	8 180.00	68 LMR - Wall 8	0.0	34.00000	36.70000	39.30000	-2.1125	0.0	2.1728	
2.2392	0.0	180.00		0.30000	33.70000	36.70000	39.30000	-2.2392	0.0	2.2805	
2.3660	0.0	180.00		0.60000	33.40000	36.70000	39.30000	-2.3660	0.0	2.3881	
2.4928	0.0	180.00		0.90000	33.10000	36.70000	39.30000	-2.4928	0.0	2.4958	
2.6195	0.0	180.00		1.2000	32.80000	36.70000	39.30000	-2.6195	0.0	2.6035	
2.7462	0.0	180.00		1.5000	32.50000	36.70000	39.30000	-2.7462	0.0	2.7112	
2.8730	0.0	180.00		1.8000	32.20000	36.70000	39.30000	-2.8730	0.0	2.8188	
2.9998	0.0	180.00		2.1000	31.90000	36.70000	39.30000	-2.9998	0.0	2.9265	
3.1265	0.0	180.00		2.4000	31.60000	36.70000	39.30000	-3.1265	0.0	3.0342	
3.2532	0.0	180.00		2.7000	31.30000	36.70000	39.30000	-3.2532	0.0	3.1418	
3.3800	0.0	9 180.00	68 LMR - Wall 9	0.0	31.00000	36.60000	39.30000	-3.3800	0.0	3.2495	
0.0	-3.3800	270.00		0.23000	31.00000	36.37000	39.30000	-3.3800	0.0	3.2495	
0.0	-3.3800	270.00		0.46000	31.00000	36.14000	39.30000	-3.3800	0.0	3.2495	
0.0	-3.3800	270.00		0.69000	31.00000	35.91000	39.30000	-3.3800	0.0	3.2495	
0.0	-3.3800	270.00		0.92000	31.00000	35.68000	39.30000	-3.3800	0.0	3.2495	
0.0	-3.3800	270.00		1.1500	31.00000	35.45000	39.30000	-3.3800	0.0	3.2495	
0.0	-3.3800	270.00		1.3800	31.00000	35.22000	39.30000	-3.3800	0.0	3.2495	
0.0	-3.3800	270.00		1.6100	31.00000	34.99000	39.30000	-3.3800	0.0	3.2495	
0.0	-3.3800	270.00		1.8400	31.00000	34.76000	39.30000	-3.3800	0.0	3.2495	
0.0	-3.3800	270.00		2.0700	31.00000	34.53000	39.30000	-3.3800	0.0	3.2495	
0.0	-3.3800	270.00		2.3000	31.00000	34.30000	39.30000	-3.3800	0.0	3.2495	



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Job No.	Sheet No.	Rev.
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Stage: Ref.	Stage: Angle Name	Disp. Line:	Disp. Line:	Name	Chainage	x	y	z	δx	δy	δz	δH//
0.0	-3.3800	270.00	10	68 LMR - Wall 10	0.0	31.00000	34.20000	39.30000	-3.3800	0.0	3.2495	
-3.3800	0.0	0.0			0.30000	31.30000	34.20000	39.30000	-3.2532	0.0	3.1418	
-3.2532	0.0	0.0			0.60000	31.60000	34.20000	39.30000	-3.1265	0.0	3.0342	
-3.1265	0.0	0.0			0.90000	31.90000	34.20000	39.30000	-2.9998	0.0	2.9265	
-2.9998	0.0	0.0			1.2000	32.20000	34.20000	39.30000	-2.8730	0.0	2.8188	
-2.8730	0.0	0.0			1.5000	32.50000	34.20000	39.30000	-2.7462	0.0	2.7112	
-2.7462	0.0	0.0			1.8000	32.80000	34.20000	39.30000	-2.6195	0.0	2.6035	
-2.6195	0.0	0.0			2.1000	33.10000	34.20000	39.30000	-2.4928	0.0	2.4958	
-2.4928	0.0	0.0			2.4000	33.40000	34.20000	39.30000	-2.3660	0.0	2.3881	
-2.3660	0.0	0.0			2.7000	33.70000	34.20000	39.30000	-2.2392	0.0	2.2805	
-2.2392	0.0	0.0			3.0000	34.00000	34.20000	39.30000	-2.1125	0.0	2.1728	
-2.1125	0.0	0.0										
0.0	-2.1125	270.00	11	68 LMR - Wall 11	0.0	34.00000	34.10000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00			0.38000	34.00000	33.72000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00			0.76000	34.00000	33.34000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00			1.1400	34.00000	32.96000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00			1.5200	34.00000	32.58000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00			1.9000	34.00000	32.20000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00			2.2800	34.00000	31.82000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00			2.6600	34.00000	31.44000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00			3.0400	34.00000	31.06000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00			3.4200	34.00000	30.68000	39.30000	-2.1125	0.0	2.1728	
0.0	-2.1125	270.00			3.8000	34.00000	30.30000	39.30000	-2.1125	0.0	2.1728	

Displacement Results - Displacement Grids

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
0	Base Model 1	Grid 1	Grid 1	0.00000	0.00000	40.00000	0.0	0.0	0.0
				1.00000	0.00000	40.00000	0.0	0.0	0.0
				2.00000	0.00000	40.00000	0.0	0.0	0.0
				3.00000	0.00000	40.00000	0.0	0.0	0.0
				4.00000	0.00000	40.00000	0.0	0.0	0.0
				5.00000	0.00000	40.00000	0.0	0.0	0.0
				6.00000	0.00000	40.00000	0.0	0.0	0.0
				7.00000	0.00000	40.00000	0.0	0.0	0.0
				8.00000	0.00000	40.00000	0.0	0.0	0.0
				9.00000	0.00000	40.00000	0.0	0.0	0.0
				10.00000	0.00000	40.00000	0.0	0.0	0.0
				11.00000	0.00000	40.00000	0.0	0.0	0.0
				12.00000	0.00000	40.00000	0.0	0.0	0.0
				13.00000	0.00000	40.00000	0.0	0.0	0.0
				14.00000	0.00000	40.00000	0.0	0.0	0.0
				15.00000	0.00000	40.00000	0.0	0.0	0.0
				16.00000	0.00000	40.00000	0.0	0.0	0.0



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70 Lady Margaret Road

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Drg. Ref.

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Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				17.00000	0.00000	40.00000	0.0	0.0	0.0
				18.00000	0.00000	40.00000	0.0	0.0	0.0
				19.00000	0.00000	40.00000	0.0	0.0	0.0
				20.00000	0.00000	40.00000	0.0	0.0	0.0
				21.00000	0.00000	40.00000	0.0	0.0	0.0
				22.00000	0.00000	40.00000	0.0	0.0	0.0
				23.00000	0.00000	40.00000	0.0	0.0	0.0
				24.00000	0.00000	40.00000	0.0	0.0	0.0
				25.00000	0.00000	40.00000	0.0	0.0	0.0
				26.00000	0.00000	40.00000	0.0	0.0	0.0
				27.00000	0.00000	40.00000	0.0	0.0	0.0
				28.00000	0.00000	40.00000	0.0	0.0	0.0
				29.00000	0.00000	40.00000	0.0	0.0	0.0
				30.00000	0.00000	40.00000	0.0	0.0	0.0
				31.00000	0.00000	40.00000	0.0	0.0	0.0
				32.00000	0.00000	40.00000	0.0	0.0	0.0
				33.00000	0.00000	40.00000	0.0	0.0	0.0
				34.00000	0.00000	40.00000	0.0	0.0	0.0
				35.00000	0.00000	40.00000	0.0	0.0	0.0
				36.00000	0.00000	40.00000	0.0	0.0	0.0
				37.00000	0.00000	40.00000	0.0	0.0	0.0
				38.00000	0.00000	40.00000	0.0	0.0	0.0
				39.00000	0.00000	40.00000	0.0	0.0	0.0
				40.00000	0.00000	40.00000	0.0	0.0	0.0
				41.00000	0.00000	40.00000	0.0	0.0	0.0
				42.00000	0.00000	40.00000	0.0	0.0	0.0
				43.00000	0.00000	40.00000	0.0	0.0	0.0
				44.00000	0.00000	40.00000	0.0	0.0	0.0
				45.00000	0.00000	40.00000	0.0	0.0	0.0
				46.00000	0.00000	40.00000	0.0	0.0	0.0
				47.00000	0.00000	40.00000	0.0	0.0	0.0
				48.00000	0.00000	40.00000	0.0	0.0	0.0
				49.00000	0.00000	40.00000	0.0	0.0	0.0
				50.00000	0.00000	40.00000	0.0	0.0	0.0
				0.00000	1.00000	40.00000	0.0	0.0	0.0
				1.00000	1.00000	40.00000	0.0	0.0	0.0
				2.00000	1.00000	40.00000	0.0	0.0	0.0
				3.00000	1.00000	40.00000	0.0	0.0	0.0
				4.00000	1.00000	40.00000	0.0	0.0	0.0
				5.00000	1.00000	40.00000	0.0	0.0	0.0
				6.00000	1.00000	40.00000	0.0	0.0	0.0
				7.00000	1.00000	40.00000	0.0	0.0	0.0
				8.00000	1.00000	40.00000	0.0	0.0	0.0
				9.00000	1.00000	40.00000	0.0	0.0	0.0
				10.00000	1.00000	40.00000	0.0	0.0	0.0
				11.00000	1.00000	40.00000	0.0	0.0	0.0
				12.00000	1.00000	40.00000	0.0	0.0	0.0
				13.00000	1.00000	40.00000	0.0	0.0	0.0
				14.00000	1.00000	40.00000	0.0	0.0	0.0
				15.00000	1.00000	40.00000	0.0	0.0	0.0
				16.00000	1.00000	40.00000	0.0	0.0	0.0
				17.00000	1.00000	40.00000	0.0	0.0	0.0
				18.00000	1.00000	40.00000	0.0	0.0	0.0
				19.00000	1.00000	40.00000	0.0	0.0	0.0
				20.00000	1.00000	40.00000	0.0	0.0	0.0
				21.00000	1.00000	40.00000	0.0	0.0	0.0
				22.00000	1.00000	40.00000	0.0	0.0	0.0
				23.00000	1.00000	40.00000	0.0	0.0	0.0
				24.00000	1.00000	40.00000	0.0	0.0	0.0
				25.00000	1.00000	40.00000	0.0	0.0	0.0
				26.00000	1.00000	40.00000	0.0	0.0	0.0
				27.00000	1.00000	40.00000	0.0	0.0	0.0
				28.00000	1.00000	40.00000	0.0	0.0	0.0
				29.00000	1.00000	40.00000	0.0	0.0	0.0
				30.00000	1.00000	40.00000	0.0	0.0	0.0
				31.00000	1.00000	40.00000	0.0	0.0	0.0
				32.00000	1.00000	40.00000	0.0	0.0	0.0
				33.00000	1.00000	40.00000	0.0	0.0	0.0
				34.00000	1.00000	40.00000	0.0	0.0	0.0
				35.00000	1.00000	40.00000	0.0	0.0	0.0
				36.00000	1.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				37.00000	1.00000	40.00000	0.0	0.0	0.0
				38.00000	1.00000	40.00000	0.0	0.0	0.0
				39.00000	1.00000	40.00000	0.0	0.0	0.0
				40.00000	1.00000	40.00000	0.0	0.0	0.0
				41.00000	1.00000	40.00000	0.0	0.0	0.0
				42.00000	1.00000	40.00000	0.0	0.0	0.0
				43.00000	1.00000	40.00000	0.0	0.0	0.0
				44.00000	1.00000	40.00000	0.0	0.0	0.0
				45.00000	1.00000	40.00000	0.0	0.0	0.0
				46.00000	1.00000	40.00000	0.0	0.0	0.0
				47.00000	1.00000	40.00000	0.0	0.0	0.0
				48.00000	1.00000	40.00000	0.0	0.0	0.0
				49.00000	1.00000	40.00000	0.0	0.0	0.0
				50.00000	1.00000	40.00000	0.0	0.0	0.0
				0.00000	2.00000	40.00000	0.0	0.0	0.0
				1.00000	2.00000	40.00000	0.0	0.0	0.0
				2.00000	2.00000	40.00000	0.0	0.0	0.0
				3.00000	2.00000	40.00000	0.0	0.0	0.0
				4.00000	2.00000	40.00000	0.0	0.0	0.0
				5.00000	2.00000	40.00000	0.0	0.0	0.0
				6.00000	2.00000	40.00000	0.0	0.0	0.0
				7.00000	2.00000	40.00000	0.0	0.0	0.0
				8.00000	2.00000	40.00000	0.0	0.0	0.0
				9.00000	2.00000	40.00000	0.0	0.0	0.0
				10.00000	2.00000	40.00000	0.0	0.0	0.0
				11.00000	2.00000	40.00000	0.0	0.0	0.0
				12.00000	2.00000	40.00000	0.0	0.0	0.0
				13.00000	2.00000	40.00000	0.0	0.0	0.0
				14.00000	2.00000	40.00000	0.0	0.0	0.0
				15.00000	2.00000	40.00000	0.0	0.0	0.0
				16.00000	2.00000	40.00000	0.0	0.0	0.0
				17.00000	2.00000	40.00000	0.0	0.0	0.0
				18.00000	2.00000	40.00000	0.0	0.0	0.0
				19.00000	2.00000	40.00000	0.0	0.0	0.0
				20.00000	2.00000	40.00000	0.0	0.0	0.0
				21.00000	2.00000	40.00000	0.0	0.0	0.0
				22.00000	2.00000	40.00000	0.0	0.0	0.0
				23.00000	2.00000	40.00000	0.0	0.0	0.0
				24.00000	2.00000	40.00000	0.0	0.0	0.0
				25.00000	2.00000	40.00000	0.0	0.0	0.0
				26.00000	2.00000	40.00000	0.0	0.0	0.0
				27.00000	2.00000	40.00000	0.0	0.0	0.0
				28.00000	2.00000	40.00000	0.0	0.0	0.0
				29.00000	2.00000	40.00000	0.0	0.0	0.0
				30.00000	2.00000	40.00000	0.0	0.0	0.0
				31.00000	2.00000	40.00000	0.0	0.0	0.0
				32.00000	2.00000	40.00000	0.0	0.0	0.0
				33.00000	2.00000	40.00000	0.0	0.0	0.0
				34.00000	2.00000	40.00000	0.0	0.0	0.0
				35.00000	2.00000	40.00000	0.0	0.0	0.0
				36.00000	2.00000	40.00000	0.0	0.0	0.0
				37.00000	2.00000	40.00000	0.0	0.0	0.0
				38.00000	2.00000	40.00000	0.0	0.0	0.0
				39.00000	2.00000	40.00000	0.0	0.0	0.0
				40.00000	2.00000	40.00000	0.0	0.0	0.0
				41.00000	2.00000	40.00000	0.0	0.0	0.0
				42.00000	2.00000	40.00000	0.0	0.0	0.0
				43.00000	2.00000	40.00000	0.0	0.0	0.0
				44.00000	2.00000	40.00000	0.0	0.0	0.0
				45.00000	2.00000	40.00000	0.0	0.0	0.0
				46.00000	2.00000	40.00000	0.0	0.0	0.0
				47.00000	2.00000	40.00000	0.0	0.0	0.0
				48.00000	2.00000	40.00000	0.0	0.0	0.0
				49.00000	2.00000	40.00000	0.0	0.0	0.0
				50.00000	2.00000	40.00000	0.0	0.0	0.0
				0.00000	3.00000	40.00000	0.0	0.0	0.0
				1.00000	3.00000	40.00000	0.0	0.0	0.0
				2.00000	3.00000	40.00000	0.0	0.0	0.0
				3.00000	3.00000	40.00000	0.0	0.0	0.0
				4.00000	3.00000	40.00000	0.0	0.0	0.0
				5.00000	3.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				6.00000	3.00000	40.00000	0.0	0.0	0.0
				7.00000	3.00000	40.00000	0.0	0.0	0.0
				8.00000	3.00000	40.00000	0.0	0.0	0.0
				9.00000	3.00000	40.00000	0.0	0.0	0.0
				10.00000	3.00000	40.00000	0.0	0.0	0.0
				11.00000	3.00000	40.00000	0.0	0.0	0.0
				12.00000	3.00000	40.00000	0.0	0.0	0.0
				13.00000	3.00000	40.00000	0.0	0.0	0.0
				14.00000	3.00000	40.00000	0.0	0.0	0.0
				15.00000	3.00000	40.00000	0.0	0.0	0.0
				16.00000	3.00000	40.00000	0.0	0.0	0.0
				17.00000	3.00000	40.00000	0.0	0.0	0.0
				18.00000	3.00000	40.00000	0.0	0.0	0.0
				19.00000	3.00000	40.00000	0.0	0.0	0.0
				20.00000	3.00000	40.00000	0.0	0.0	0.0
				21.00000	3.00000	40.00000	0.0	0.0	0.0
				22.00000	3.00000	40.00000	0.0	0.0	0.0
				23.00000	3.00000	40.00000	0.0	0.0	0.0
				24.00000	3.00000	40.00000	0.0	0.0	0.0
				25.00000	3.00000	40.00000	0.0	0.0	0.0
				26.00000	3.00000	40.00000	0.0	0.0	0.0
				27.00000	3.00000	40.00000	0.0	0.0	0.0
				28.00000	3.00000	40.00000	0.0	0.0	0.0
				29.00000	3.00000	40.00000	0.0	0.0	0.0
				30.00000	3.00000	40.00000	0.0	0.0	0.0
				31.00000	3.00000	40.00000	0.0	0.0	0.0
				32.00000	3.00000	40.00000	0.0	0.0	0.0
				33.00000	3.00000	40.00000	0.0	0.0	0.0
				34.00000	3.00000	40.00000	0.0	0.0	0.0
				35.00000	3.00000	40.00000	0.0	0.0	0.0
				36.00000	3.00000	40.00000	0.0	0.0	0.0
				37.00000	3.00000	40.00000	0.0	0.0	0.0
				38.00000	3.00000	40.00000	0.0	0.0	0.0
				39.00000	3.00000	40.00000	0.0	0.0	0.0
				40.00000	3.00000	40.00000	0.0	0.0	0.0
				41.00000	3.00000	40.00000	0.0	0.0	0.0
				42.00000	3.00000	40.00000	0.0	0.0	0.0
				43.00000	3.00000	40.00000	0.0	0.0	0.0
				44.00000	3.00000	40.00000	0.0	0.0	0.0
				45.00000	3.00000	40.00000	0.0	0.0	0.0
				46.00000	3.00000	40.00000	0.0	0.0	0.0
				47.00000	3.00000	40.00000	0.0	0.0	0.0
				48.00000	3.00000	40.00000	0.0	0.0	0.0
				49.00000	3.00000	40.00000	0.0	0.0	0.0
				50.00000	3.00000	40.00000	0.0	0.0	0.0
				0.00000	4.00000	40.00000	0.0	0.0	0.0
				1.00000	4.00000	40.00000	0.0	0.0	0.0
				2.00000	4.00000	40.00000	0.0	0.0	0.0
				3.00000	4.00000	40.00000	0.0	0.0	0.0
				4.00000	4.00000	40.00000	0.0	0.0	0.0
				5.00000	4.00000	40.00000	0.0	0.0	0.0
				6.00000	4.00000	40.00000	0.0	0.0	0.0
				7.00000	4.00000	40.00000	0.0	0.0	0.0
				8.00000	4.00000	40.00000	0.0	0.0	0.0
				9.00000	4.00000	40.00000	0.0	0.0	0.0
				10.00000	4.00000	40.00000	0.0	0.0	0.0
				11.00000	4.00000	40.00000	0.0	0.0	0.0
				12.00000	4.00000	40.00000	0.0	0.0	0.0
				13.00000	4.00000	40.00000	0.0	0.0	0.0
				14.00000	4.00000	40.00000	0.0	0.0	0.0
				15.00000	4.00000	40.00000	0.0	0.0	0.0
				16.00000	4.00000	40.00000	0.0	0.0	0.0
				17.00000	4.00000	40.00000	0.0	0.0	0.0
				18.00000	4.00000	40.00000	0.0	0.0	0.0
				19.00000	4.00000	40.00000	0.0	0.0	0.0
				20.00000	4.00000	40.00000	0.0	0.0	0.0
				21.00000	4.00000	40.00000	0.0	0.0	0.0
				22.00000	4.00000	40.00000	0.0	0.0	0.0
				23.00000	4.00000	40.00000	0.0	0.0	0.0
				24.00000	4.00000	40.00000	0.0	0.0	0.0
				25.00000	4.00000	40.00000	0.0	0.0	0.0



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GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

Job No. Sheet No. Rev.

Drg. Ref.

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Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				26.00000	4.00000	40.00000	0.0	0.0	0.0
				27.00000	4.00000	40.00000	0.0	0.0	0.0
				28.00000	4.00000	40.00000	0.0	0.0	0.0
				29.00000	4.00000	40.00000	0.0	0.0	0.0
				30.00000	4.00000	40.00000	0.0	0.0	0.0
				31.00000	4.00000	40.00000	0.0	0.0	0.0
				32.00000	4.00000	40.00000	0.0	0.0	0.0
				33.00000	4.00000	40.00000	0.0	0.0	0.0
				34.00000	4.00000	40.00000	0.0	0.0	0.0
				35.00000	4.00000	40.00000	0.0	0.0	0.0
				36.00000	4.00000	40.00000	0.0	0.0	0.0
				37.00000	4.00000	40.00000	0.0	0.0	0.0
				38.00000	4.00000	40.00000	0.0	0.0	0.0
				39.00000	4.00000	40.00000	0.0	0.0	0.0
				40.00000	4.00000	40.00000	0.0	0.0	0.0
				41.00000	4.00000	40.00000	0.0	0.0	0.0
				42.00000	4.00000	40.00000	0.0	0.0	0.0
				43.00000	4.00000	40.00000	0.0	0.0	0.0
				44.00000	4.00000	40.00000	0.0	0.0	0.0
				45.00000	4.00000	40.00000	0.0	0.0	0.0
				46.00000	4.00000	40.00000	0.0	0.0	0.0
				47.00000	4.00000	40.00000	0.0	0.0	0.0
				48.00000	4.00000	40.00000	0.0	0.0	0.0
				49.00000	4.00000	40.00000	0.0	0.0	0.0
				50.00000	4.00000	40.00000	0.0	0.0	0.0
				0.00000	5.00000	40.00000	0.0	0.0	0.0
				1.00000	5.00000	40.00000	0.0	0.0	0.0
				2.00000	5.00000	40.00000	0.0	0.0	0.0
				3.00000	5.00000	40.00000	0.0	0.0	0.0
				4.00000	5.00000	40.00000	0.0	0.0	0.0
				5.00000	5.00000	40.00000	0.0	0.0	0.0
				6.00000	5.00000	40.00000	0.0	0.0	0.0
				7.00000	5.00000	40.00000	0.0	0.0	0.0
				8.00000	5.00000	40.00000	0.0	0.0	0.0
				9.00000	5.00000	40.00000	0.0	0.0	0.0
				10.00000	5.00000	40.00000	0.0	0.0	0.0
				11.00000	5.00000	40.00000	0.0	0.0	0.0
				12.00000	5.00000	40.00000	0.0	0.0	0.0
				13.00000	5.00000	40.00000	0.0	0.0	0.0
				14.00000	5.00000	40.00000	0.0	0.0	0.0
				15.00000	5.00000	40.00000	0.0	0.0	0.0
				16.00000	5.00000	40.00000	0.0	0.0	0.0
				17.00000	5.00000	40.00000	0.0	0.0	0.0
				18.00000	5.00000	40.00000	0.0	0.0	0.0
				19.00000	5.00000	40.00000	0.0	0.0	0.0
				20.00000	5.00000	40.00000	0.0	0.0	0.0
				21.00000	5.00000	40.00000	0.0	0.0	0.0
				22.00000	5.00000	40.00000	0.0	0.0	0.0
				23.00000	5.00000	40.00000	0.0	0.0	0.0
				24.00000	5.00000	40.00000	0.0	0.0	0.0
				25.00000	5.00000	40.00000	0.0	0.0	0.0
				26.00000	5.00000	40.00000	0.0	0.0	0.0
				27.00000	5.00000	40.00000	0.0	0.0	0.0
				28.00000	5.00000	40.00000	0.0	0.0	0.0
				29.00000	5.00000	40.00000	0.0	0.0	0.0
				30.00000	5.00000	40.00000	0.0	0.0	0.0
				31.00000	5.00000	40.00000	0.0	0.0	0.0
				32.00000	5.00000	40.00000	0.0	0.0	0.0
				33.00000	5.00000	40.00000	0.0	0.0	0.0
				34.00000	5.00000	40.00000	0.0	0.0	0.0
				35.00000	5.00000	40.00000	0.0	0.0	0.0
				36.00000	5.00000	40.00000	0.0	0.0	0.0
				37.00000	5.00000	40.00000	0.0	0.0	0.0
				38.00000	5.00000	40.00000	0.0	0.0	0.0
				39.00000	5.00000	40.00000	0.0	0.0	0.0
				40.00000	5.00000	40.00000	0.0	0.0	0.0
				41.00000	5.00000	40.00000	0.0	0.0	0.0
				42.00000	5.00000	40.00000	0.0	0.0	0.0
				43.00000	5.00000	40.00000	0.0	0.0	0.0
				44.00000	5.00000	40.00000	0.0	0.0	0.0
				45.00000	5.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

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Drg. Ref.

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Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				46.00000	5.00000	40.00000	0.0	0.0	0.0
				47.00000	5.00000	40.00000	0.0	0.0	0.0
				48.00000	5.00000	40.00000	0.0	0.0	0.0
				49.00000	5.00000	40.00000	0.0	0.0	0.0
				50.00000	5.00000	40.00000	0.0	0.0	0.0
				0.00000	6.00000	40.00000	0.0	0.0	0.0
				1.00000	6.00000	40.00000	0.0	0.0	0.0
				2.00000	6.00000	40.00000	0.0	0.0	0.0
				3.00000	6.00000	40.00000	0.0	0.0	0.0
				4.00000	6.00000	40.00000	0.0	0.0	0.0
				5.00000	6.00000	40.00000	0.0	0.0	0.0
				6.00000	6.00000	40.00000	0.0	0.0	0.0
				7.00000	6.00000	40.00000	0.0	0.0	0.0
				8.00000	6.00000	40.00000	0.0	0.0	0.0
				9.00000	6.00000	40.00000	0.0	0.0	0.0
				10.00000	6.00000	40.00000	0.0	0.0	0.0
				11.00000	6.00000	40.00000	0.0	0.0	0.0
				12.00000	6.00000	40.00000	0.0	0.0	0.0
				13.00000	6.00000	40.00000	0.0	0.0	0.0
				14.00000	6.00000	40.00000	0.0	0.0	0.0
				15.00000	6.00000	40.00000	0.0	0.0	0.0
				16.00000	6.00000	40.00000	0.0	0.0	0.0
				17.00000	6.00000	40.00000	0.0	0.0	0.0
				18.00000	6.00000	40.00000	0.0	0.0	0.0
				19.00000	6.00000	40.00000	0.0	0.0	0.0
				20.00000	6.00000	40.00000	0.0	0.0	0.0
				21.00000	6.00000	40.00000	0.0	0.0	0.0
				22.00000	6.00000	40.00000	0.0	0.0	0.0
				23.00000	6.00000	40.00000	0.0	0.0	0.0
				24.00000	6.00000	40.00000	0.0	0.0	0.0
				25.00000	6.00000	40.00000	0.0	0.0	0.0
				26.00000	6.00000	40.00000	0.0	0.0	0.0
				27.00000	6.00000	40.00000	0.0	0.0	0.0
				28.00000	6.00000	40.00000	0.0	0.0	0.0
				29.00000	6.00000	40.00000	0.0	0.0	0.0
				30.00000	6.00000	40.00000	0.0	0.0	0.0
				31.00000	6.00000	40.00000	0.0	0.0	0.0
				32.00000	6.00000	40.00000	0.0	0.0	0.0
				33.00000	6.00000	40.00000	0.0	0.0	0.0
				34.00000	6.00000	40.00000	0.0	0.0	0.0
				35.00000	6.00000	40.00000	0.0	0.0	0.0
				36.00000	6.00000	40.00000	0.0	0.0	0.0
				37.00000	6.00000	40.00000	0.0	0.0	0.0
				38.00000	6.00000	40.00000	0.0	0.0	0.0
				39.00000	6.00000	40.00000	0.0	0.0	0.0
				40.00000	6.00000	40.00000	0.0	0.0	0.0
				41.00000	6.00000	40.00000	0.0	0.0	0.0
				42.00000	6.00000	40.00000	0.0	0.0	0.0
				43.00000	6.00000	40.00000	0.0	0.0	0.0
				44.00000	6.00000	40.00000	0.0	0.0	0.0
				45.00000	6.00000	40.00000	0.0	0.0	0.0
				46.00000	6.00000	40.00000	0.0	0.0	0.0
				47.00000	6.00000	40.00000	0.0	0.0	0.0
				48.00000	6.00000	40.00000	0.0	0.0	0.0
				49.00000	6.00000	40.00000	0.0	0.0	0.0
				50.00000	6.00000	40.00000	0.0	0.0	0.0
				0.00000	7.00000	40.00000	0.0	0.0	0.0
				1.00000	7.00000	40.00000	0.0	0.0	0.0
				2.00000	7.00000	40.00000	0.0	0.0	0.0
				3.00000	7.00000	40.00000	0.0	0.0	0.0
				4.00000	7.00000	40.00000	0.0	0.0	0.0
				5.00000	7.00000	40.00000	0.0	0.0	0.0
				6.00000	7.00000	40.00000	0.0	0.0	0.0
				7.00000	7.00000	40.00000	0.0	0.0	0.0
				8.00000	7.00000	40.00000	0.0	0.0	0.0
				9.00000	7.00000	40.00000	0.0	0.0	0.0
				10.00000	7.00000	40.00000	0.0	0.0	0.0
				11.00000	7.00000	40.00000	0.0	0.0	0.0
				12.00000	7.00000	40.00000	0.0	0.0	0.0
				13.00000	7.00000	40.00000	0.0	0.0	0.0
				14.00000	7.00000	40.00000	0.0	0.0	0.0



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GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				15.00000	7.00000	40.00000	0.0	0.0	0.0
				16.00000	7.00000	40.00000	0.0	0.0	0.0
				17.00000	7.00000	40.00000	0.0	0.0	0.0
				18.00000	7.00000	40.00000	0.0	0.0	0.0
				19.00000	7.00000	40.00000	0.0	0.0	0.0
				20.00000	7.00000	40.00000	0.0	0.0	0.0
				21.00000	7.00000	40.00000	0.0	0.0	0.0
				22.00000	7.00000	40.00000	0.0	0.0	0.0
				23.00000	7.00000	40.00000	0.0	0.0	0.0
				24.00000	7.00000	40.00000	0.0	0.0	0.0
				25.00000	7.00000	40.00000	0.0	0.0	0.0
				26.00000	7.00000	40.00000	0.0	0.0	0.0
				27.00000	7.00000	40.00000	0.0	0.0	0.0
				28.00000	7.00000	40.00000	0.0	0.0	0.0
				29.00000	7.00000	40.00000	0.0	0.0	0.0
				30.00000	7.00000	40.00000	0.0	0.0	0.0
				31.00000	7.00000	40.00000	0.0	0.0	0.0
				32.00000	7.00000	40.00000	0.0	0.0	0.0
				33.00000	7.00000	40.00000	0.0	0.0	0.0
				34.00000	7.00000	40.00000	0.0	0.0	0.0
				35.00000	7.00000	40.00000	0.0	0.0	0.0
				36.00000	7.00000	40.00000	0.0	0.0	0.0
				37.00000	7.00000	40.00000	0.0	0.0	0.0
				38.00000	7.00000	40.00000	0.0	0.0	0.0
				39.00000	7.00000	40.00000	0.0	0.0	0.0
				40.00000	7.00000	40.00000	0.0	0.0	0.0
				41.00000	7.00000	40.00000	0.0	0.0	0.0
				42.00000	7.00000	40.00000	0.0	0.0	0.0
				43.00000	7.00000	40.00000	0.0	0.0	0.0
				44.00000	7.00000	40.00000	0.0	0.0	0.0
				45.00000	7.00000	40.00000	0.0	0.0	0.0
				46.00000	7.00000	40.00000	0.0	0.0	0.0
				47.00000	7.00000	40.00000	0.0	0.0	0.0
				48.00000	7.00000	40.00000	0.0	0.0	0.0
				49.00000	7.00000	40.00000	0.0	0.0	0.0
				50.00000	7.00000	40.00000	0.0	0.0	0.0
				0.00000	8.00000	40.00000	0.0	0.0	0.0
				1.00000	8.00000	40.00000	0.0	0.0	0.0
				2.00000	8.00000	40.00000	0.0	0.0	0.0
				3.00000	8.00000	40.00000	0.0	0.0	0.0
				4.00000	8.00000	40.00000	0.0	0.0	0.0
				5.00000	8.00000	40.00000	0.0	0.0	0.0
				6.00000	8.00000	40.00000	0.0	0.0	0.0
				7.00000	8.00000	40.00000	0.0	0.0	0.0
				8.00000	8.00000	40.00000	0.0	0.0	0.0
				9.00000	8.00000	40.00000	0.0	0.0	0.0
				10.00000	8.00000	40.00000	0.0	0.0	0.0
				11.00000	8.00000	40.00000	0.0	0.0	0.0
				12.00000	8.00000	40.00000	0.0	0.0	0.0
				13.00000	8.00000	40.00000	0.0	0.0	0.0
				14.00000	8.00000	40.00000	0.0	0.0	0.0
				15.00000	8.00000	40.00000	0.0	0.0	0.0
				16.00000	8.00000	40.00000	0.0	0.0	0.0
				17.00000	8.00000	40.00000	0.0	0.0	0.0
				18.00000	8.00000	40.00000	0.0	0.0	0.0
				19.00000	8.00000	40.00000	0.0	0.0	0.0
				20.00000	8.00000	40.00000	0.0	0.0	0.0
				21.00000	8.00000	40.00000	0.0	0.0	0.0
				22.00000	8.00000	40.00000	0.0	0.0	0.0
				23.00000	8.00000	40.00000	0.0	0.0	0.0
				24.00000	8.00000	40.00000	0.0	0.0	0.0
				25.00000	8.00000	40.00000	0.0	0.0	0.0
				26.00000	8.00000	40.00000	0.0	0.0	0.0
				27.00000	8.00000	40.00000	0.0	0.0	0.0
				28.00000	8.00000	40.00000	0.0	0.0	0.0
				29.00000	8.00000	40.00000	0.0	0.0	0.0
				30.00000	8.00000	40.00000	0.0	0.0	0.0
				31.00000	8.00000	40.00000	0.0	0.0	0.0
				32.00000	8.00000	40.00000	0.0	0.0	0.0
				33.00000	8.00000	40.00000	0.0	0.0	0.0
				34.00000	8.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				35.00000	8.00000	40.00000	0.0	0.0	0.0
				36.00000	8.00000	40.00000	0.0	0.0	0.0
				37.00000	8.00000	40.00000	0.0	0.0	0.0
				38.00000	8.00000	40.00000	0.0	0.0	0.0
				39.00000	8.00000	40.00000	0.0	0.0	0.0
				40.00000	8.00000	40.00000	0.0	0.0	0.0
				41.00000	8.00000	40.00000	0.0	0.0	0.0
				42.00000	8.00000	40.00000	0.0	0.0	0.0
				43.00000	8.00000	40.00000	0.0	0.0	0.0
				44.00000	8.00000	40.00000	0.0	0.0	0.0
				45.00000	8.00000	40.00000	0.0	0.0	0.0
				46.00000	8.00000	40.00000	0.0	0.0	0.0
				47.00000	8.00000	40.00000	0.0	0.0	0.0
				48.00000	8.00000	40.00000	0.0	0.0	0.0
				49.00000	8.00000	40.00000	0.0	0.0	0.0
				50.00000	8.00000	40.00000	0.0	0.0	0.0
				0.00000	9.00000	40.00000	0.0	0.0	0.0
				1.00000	9.00000	40.00000	0.0	0.0	0.0
				2.00000	9.00000	40.00000	0.0	0.0	0.0
				3.00000	9.00000	40.00000	0.0	0.0	0.0
				4.00000	9.00000	40.00000	0.0	0.0	0.0
				5.00000	9.00000	40.00000	0.0	0.0	0.0
				6.00000	9.00000	40.00000	0.0	0.0	0.0
				7.00000	9.00000	40.00000	0.0	0.0	0.0
				8.00000	9.00000	40.00000	0.0	0.0	0.0
				9.00000	9.00000	40.00000	0.0	0.0	0.0
				10.00000	9.00000	40.00000	0.0	0.0	0.0
				11.00000	9.00000	40.00000	0.0	0.0	0.0
				12.00000	9.00000	40.00000	0.0	0.0	0.0
				13.00000	9.00000	40.00000	0.0	0.0	0.0
				14.00000	9.00000	40.00000	0.0	0.0	0.0
				15.00000	9.00000	40.00000	0.0	0.0	0.0
				16.00000	9.00000	40.00000	0.0	0.0	0.0
				17.00000	9.00000	40.00000	0.0	0.0	0.0
				18.00000	9.00000	40.00000	0.0	0.0	0.0
				19.00000	9.00000	40.00000	0.0	0.0	0.0
				20.00000	9.00000	40.00000	0.0	0.0	0.0
				21.00000	9.00000	40.00000	0.0	0.0	0.0
				22.00000	9.00000	40.00000	0.0	0.0	0.0
				23.00000	9.00000	40.00000	0.0	0.0	0.0
				24.00000	9.00000	40.00000	0.0	0.0	0.0
				25.00000	9.00000	40.00000	0.0	0.0	0.0
				26.00000	9.00000	40.00000	0.0	0.0	0.0
				27.00000	9.00000	40.00000	0.0	0.0	0.0
				28.00000	9.00000	40.00000	0.0	0.0	0.0
				29.00000	9.00000	40.00000	0.0	0.0	0.0
				30.00000	9.00000	40.00000	0.0	0.0	0.0
				31.00000	9.00000	40.00000	0.0	0.0	0.0
				32.00000	9.00000	40.00000	0.0	0.0	0.0
				33.00000	9.00000	40.00000	0.0	0.0	0.0
				34.00000	9.00000	40.00000	0.0	0.0	0.0
				35.00000	9.00000	40.00000	0.0	0.0	0.0
				36.00000	9.00000	40.00000	0.0	0.0	0.0
				37.00000	9.00000	40.00000	0.0	0.0	0.0
				38.00000	9.00000	40.00000	0.0	0.0	0.0
				39.00000	9.00000	40.00000	0.0	0.0	0.0
				40.00000	9.00000	40.00000	0.0	0.0	0.0
				41.00000	9.00000	40.00000	0.0	0.0	0.0
				42.00000	9.00000	40.00000	0.0	0.0	0.0
				43.00000	9.00000	40.00000	0.0	0.0	0.0
				44.00000	9.00000	40.00000	0.0	0.0	0.0
				45.00000	9.00000	40.00000	0.0	0.0	0.0
				46.00000	9.00000	40.00000	0.0	0.0	0.0
				47.00000	9.00000	40.00000	0.0	0.0	0.0
				48.00000	9.00000	40.00000	0.0	0.0	0.0
				49.00000	9.00000	40.00000	0.0	0.0	0.0
				50.00000	9.00000	40.00000	0.0	0.0	0.0
				0.00000	10.00000	40.00000	0.0	0.0	0.0
				1.00000	10.00000	40.00000	0.0	0.0	0.0
				2.00000	10.00000	40.00000	0.0	0.0	0.0
				3.00000	10.00000	40.00000	0.0	0.0	0.0



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Job No. Sheet No. Rev.

Drg. Ref.

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Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				4.00000	10.00000	40.00000	0.0	0.0	0.0
				5.00000	10.00000	40.00000	0.0	0.0	0.0
				6.00000	10.00000	40.00000	0.0	0.0	0.0
				7.00000	10.00000	40.00000	0.0	0.0	0.0
				8.00000	10.00000	40.00000	0.0	0.0	0.0
				9.00000	10.00000	40.00000	0.0	0.0	0.0
				10.00000	10.00000	40.00000	0.0	0.0	0.0
				11.00000	10.00000	40.00000	0.0	0.0	0.0
				12.00000	10.00000	40.00000	0.0	0.0	0.0
				13.00000	10.00000	40.00000	0.0	0.0	0.0
				14.00000	10.00000	40.00000	0.0	0.0	0.0
				15.00000	10.00000	40.00000	0.0	0.0	0.0
				16.00000	10.00000	40.00000	0.0	0.0	0.0
				17.00000	10.00000	40.00000	0.0	0.0	0.0
				18.00000	10.00000	40.00000	0.0	0.0	0.0
				19.00000	10.00000	40.00000	0.0	0.0	0.0
				20.00000	10.00000	40.00000	0.0	0.0	0.0
				21.00000	10.00000	40.00000	0.0	0.0	0.0
				22.00000	10.00000	40.00000	0.0	0.0	0.0
				23.00000	10.00000	40.00000	0.0	0.0	0.0
				24.00000	10.00000	40.00000	0.0	0.0	0.0
				25.00000	10.00000	40.00000	0.0	0.0	0.0
				26.00000	10.00000	40.00000	0.0	0.0	0.0
				27.00000	10.00000	40.00000	0.0	0.0	0.0
				28.00000	10.00000	40.00000	0.0	0.0	0.0
				29.00000	10.00000	40.00000	0.0	0.0	0.0
				30.00000	10.00000	40.00000	0.0	0.0	0.0
				31.00000	10.00000	40.00000	0.0	0.0	0.0
				32.00000	10.00000	40.00000	0.0	0.0	0.0
				33.00000	10.00000	40.00000	0.0	0.0	0.0
				34.00000	10.00000	40.00000	0.0	0.0	0.0
				35.00000	10.00000	40.00000	0.0	0.0	0.0
				36.00000	10.00000	40.00000	0.0	0.0	0.0
				37.00000	10.00000	40.00000	0.0	0.0	0.0
				38.00000	10.00000	40.00000	0.0	0.0	0.0
				39.00000	10.00000	40.00000	0.0	0.0	0.0
				40.00000	10.00000	40.00000	0.0	0.0	0.0
				41.00000	10.00000	40.00000	0.0	0.0	0.0
				42.00000	10.00000	40.00000	0.0	0.0	0.0
				43.00000	10.00000	40.00000	0.0	0.0	0.0
				44.00000	10.00000	40.00000	0.0	0.0	0.0
				45.00000	10.00000	40.00000	0.0	0.0	0.0
				46.00000	10.00000	40.00000	0.0	0.0	0.0
				47.00000	10.00000	40.00000	0.0	0.0	0.0
				48.00000	10.00000	40.00000	0.0	0.0	0.0
				49.00000	10.00000	40.00000	0.0	0.0	0.0
				50.00000	10.00000	40.00000	0.0	0.0	0.0
				0.00000	11.00000	40.00000	0.0	0.0	0.0
				1.00000	11.00000	40.00000	0.0	0.0	0.0
				2.00000	11.00000	40.00000	0.0	0.0	0.0
				3.00000	11.00000	40.00000	0.0	0.0	0.0
				4.00000	11.00000	40.00000	0.0	0.0	0.0
				5.00000	11.00000	40.00000	0.0	0.0	0.0
				6.00000	11.00000	40.00000	0.0	0.0	0.0
				7.00000	11.00000	40.00000	0.0	0.0	0.0
				8.00000	11.00000	40.00000	0.0	0.0	0.0
				9.00000	11.00000	40.00000	0.0	0.0	0.0
				10.00000	11.00000	40.00000	0.0	0.0	0.0
				11.00000	11.00000	40.00000	0.0	0.0	0.0
				12.00000	11.00000	40.00000	0.0	0.0	0.0
				13.00000	11.00000	40.00000	0.0	0.0	0.0
				14.00000	11.00000	40.00000	0.0	0.0	0.0
				15.00000	11.00000	40.00000	0.0	0.0	0.0
				16.00000	11.00000	40.00000	0.0	0.0	0.0
				17.00000	11.00000	40.00000	0.0	0.0	0.0
				18.00000	11.00000	40.00000	0.0	0.0	0.0
				19.00000	11.00000	40.00000	0.0	0.0	0.0
				20.00000	11.00000	40.00000	0.0	0.0	0.0
				21.00000	11.00000	40.00000	0.0	0.0	0.0
				22.00000	11.00000	40.00000	0.0	0.0	0.0
				23.00000	11.00000	40.00000	0.0	0.0	0.0



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Job No. Sheet No. Rev.

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Made by AT Date 25-Apr-2023

Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				24.00000	11.00000	40.00000	0.0	0.0	0.0
				25.00000	11.00000	40.00000	0.0	0.0	0.0
				26.00000	11.00000	40.00000	0.0	0.0	0.0
				27.00000	11.00000	40.00000	0.0	0.0	0.0
				28.00000	11.00000	40.00000	0.0	0.0	0.0
				29.00000	11.00000	40.00000	0.0	0.0	0.0
				30.00000	11.00000	40.00000	0.0	0.0	0.0
				31.00000	11.00000	40.00000	0.0	0.0	0.0
				32.00000	11.00000	40.00000	0.0	0.0	0.0
				33.00000	11.00000	40.00000	0.0	0.0	0.0
				34.00000	11.00000	40.00000	0.0	0.0	0.0
				35.00000	11.00000	40.00000	0.0	0.0	0.0
				36.00000	11.00000	40.00000	0.0	0.0	0.0
				37.00000	11.00000	40.00000	0.0	0.0	0.0
				38.00000	11.00000	40.00000	0.0	0.0	0.0
				39.00000	11.00000	40.00000	0.0	0.0	0.0
				40.00000	11.00000	40.00000	0.0	0.0	0.0
				41.00000	11.00000	40.00000	0.0	0.0	0.0
				42.00000	11.00000	40.00000	0.0	0.0	0.0
				43.00000	11.00000	40.00000	0.0	0.0	0.0
				44.00000	11.00000	40.00000	0.0	0.0	0.0
				45.00000	11.00000	40.00000	0.0	0.0	0.0
				46.00000	11.00000	40.00000	0.0	0.0	0.0
				47.00000	11.00000	40.00000	0.0	0.0	0.0
				48.00000	11.00000	40.00000	0.0	0.0	0.0
				49.00000	11.00000	40.00000	0.0	0.0	0.0
				50.00000	11.00000	40.00000	0.0	0.0	0.0
				0.00000	12.00000	40.00000	0.0	0.0	0.0
				1.00000	12.00000	40.00000	0.0	0.0	0.0
				2.00000	12.00000	40.00000	0.0	0.0	0.0
				3.00000	12.00000	40.00000	0.0	0.0	0.0
				4.00000	12.00000	40.00000	0.0	0.0	0.0
				5.00000	12.00000	40.00000	0.0	0.0	0.0
				6.00000	12.00000	40.00000	0.0	0.0	0.0
				7.00000	12.00000	40.00000	0.0	0.0	0.0
				8.00000	12.00000	40.00000	0.0	0.0	0.0
				9.00000	12.00000	40.00000	0.0	0.0	0.0
				10.00000	12.00000	40.00000	0.0	0.0	0.0
				11.00000	12.00000	40.00000	0.0	0.0	0.0
				12.00000	12.00000	40.00000	0.0	0.0	0.0
				13.00000	12.00000	40.00000	0.0	0.0	0.0
				14.00000	12.00000	40.00000	0.0	0.0	0.0
				15.00000	12.00000	40.00000	0.0	0.0	0.0
				16.00000	12.00000	40.00000	0.0	0.0	0.0
				17.00000	12.00000	40.00000	0.0	0.0	0.0
				18.00000	12.00000	40.00000	0.0	0.0	0.0
				19.00000	12.00000	40.00000	0.0	0.0	0.0
				20.00000	12.00000	40.00000	0.0	0.0	0.0
				21.00000	12.00000	40.00000	0.0	0.0	0.0
				22.00000	12.00000	40.00000	0.0	0.0	0.0
				23.00000	12.00000	40.00000	0.0	0.0	0.0
				24.00000	12.00000	40.00000	0.0	0.0	0.0
				25.00000	12.00000	40.00000	0.0	0.0	0.0
				26.00000	12.00000	40.00000	0.0	0.0	0.0
				27.00000	12.00000	40.00000	0.0	0.0	0.0
				28.00000	12.00000	40.00000	0.0	0.0	0.0
				29.00000	12.00000	40.00000	0.0	0.0	0.0
				30.00000	12.00000	40.00000	0.0	0.0	0.0
				31.00000	12.00000	40.00000	0.0	0.0	0.0
				32.00000	12.00000	40.00000	0.0	0.0	0.0
				33.00000	12.00000	40.00000	0.0	0.0	0.0
				34.00000	12.00000	40.00000	0.0	0.0	0.0
				35.00000	12.00000	40.00000	0.0	0.0	0.0
				36.00000	12.00000	40.00000	0.0	0.0	0.0
				37.00000	12.00000	40.00000	0.0	0.0	0.0
				38.00000	12.00000	40.00000	0.0	0.0	0.0
				39.00000	12.00000	40.00000	0.0	0.0	0.0
				40.00000	12.00000	40.00000	0.0	0.0	0.0
				41.00000	12.00000	40.00000	0.0	0.0	0.0
				42.00000	12.00000	40.00000	0.0	0.0	0.0
				43.00000	12.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				44.00000	12.00000	40.00000	0.0	0.0	0.0
				45.00000	12.00000	40.00000	0.0	0.0	0.0
				46.00000	12.00000	40.00000	0.0	0.0	0.0
				47.00000	12.00000	40.00000	0.0	0.0	0.0
				48.00000	12.00000	40.00000	0.0	0.0	0.0
				49.00000	12.00000	40.00000	0.0	0.0	0.0
				50.00000	12.00000	40.00000	0.0	0.0	0.0
				0.00000	13.00000	40.00000	0.0	0.0	0.0
				1.00000	13.00000	40.00000	0.0	0.0	0.0
				2.00000	13.00000	40.00000	0.0	0.0	0.0
				3.00000	13.00000	40.00000	0.0	0.0	0.0
				4.00000	13.00000	40.00000	0.0	0.0	0.0
				5.00000	13.00000	40.00000	0.0	0.0	0.0
				6.00000	13.00000	40.00000	0.0	0.0	0.0
				7.00000	13.00000	40.00000	0.0	0.0	0.0
				8.00000	13.00000	40.00000	0.0	0.0	0.0
				9.00000	13.00000	40.00000	0.0	0.0	0.0
				10.00000	13.00000	40.00000	0.0	0.0	0.0
				11.00000	13.00000	40.00000	0.0	0.0	0.0
				12.00000	13.00000	40.00000	0.0	0.0	0.0
				13.00000	13.00000	40.00000	0.0	0.0	0.0
				14.00000	13.00000	40.00000	0.0	0.0	0.0
				15.00000	13.00000	40.00000	0.0	0.0	0.0
				16.00000	13.00000	40.00000	0.0	0.0	0.0
				17.00000	13.00000	40.00000	0.0	0.0	0.0
				18.00000	13.00000	40.00000	0.0	0.0	0.0
				19.00000	13.00000	40.00000	0.0	0.0	0.0
				20.00000	13.00000	40.00000	0.0	0.0	0.0
				21.00000	13.00000	40.00000	0.0	0.0	0.0
				22.00000	13.00000	40.00000	0.0	0.0	0.0
				23.00000	13.00000	40.00000	0.0	0.0	0.0
				24.00000	13.00000	40.00000	0.0	0.0	0.0
				25.00000	13.00000	40.00000	0.0	0.0	0.0
				26.00000	13.00000	40.00000	0.0	0.0	0.0
				27.00000	13.00000	40.00000	0.0	0.0	0.0
				28.00000	13.00000	40.00000	0.0	0.0	0.0
				29.00000	13.00000	40.00000	0.0	0.0	0.0
				30.00000	13.00000	40.00000	0.0	0.0	0.0
				31.00000	13.00000	40.00000	0.0	0.0	0.0
				32.00000	13.00000	40.00000	0.0	0.0	0.0
				33.00000	13.00000	40.00000	0.0	0.0	0.0
				34.00000	13.00000	40.00000	0.0	0.0	0.0
				35.00000	13.00000	40.00000	0.0	0.0	0.0
				36.00000	13.00000	40.00000	0.0	0.0	0.0
				37.00000	13.00000	40.00000	0.0	0.0	0.0
				38.00000	13.00000	40.00000	0.0	0.0	0.0
				39.00000	13.00000	40.00000	0.0	0.0	0.0
				40.00000	13.00000	40.00000	0.0	0.0	0.0
				41.00000	13.00000	40.00000	0.0	0.0	0.0
				42.00000	13.00000	40.00000	0.0	0.0	0.0
				43.00000	13.00000	40.00000	0.0	0.0	0.0
				44.00000	13.00000	40.00000	0.0	0.0	0.0
				45.00000	13.00000	40.00000	0.0	0.0	0.0
				46.00000	13.00000	40.00000	0.0	0.0	0.0
				47.00000	13.00000	40.00000	0.0	0.0	0.0
				48.00000	13.00000	40.00000	0.0	0.0	0.0
				49.00000	13.00000	40.00000	0.0	0.0	0.0
				50.00000	13.00000	40.00000	0.0	0.0	0.0
				0.00000	14.00000	40.00000	0.0	0.0	0.0
				1.00000	14.00000	40.00000	0.0	0.0	0.0
				2.00000	14.00000	40.00000	0.0	0.0	0.0
				3.00000	14.00000	40.00000	0.0	0.0	0.0
				4.00000	14.00000	40.00000	0.0	0.0	0.0
				5.00000	14.00000	40.00000	0.0	0.0	0.0
				6.00000	14.00000	40.00000	0.0	0.0	0.0
				7.00000	14.00000	40.00000	0.0	0.0	0.0
				8.00000	14.00000	40.00000	0.0	0.0	0.0
				9.00000	14.00000	40.00000	0.0	0.0	0.0
				10.00000	14.00000	40.00000	0.0	0.0	0.0
				11.00000	14.00000	40.00000	0.0	0.0	0.0
				12.00000	14.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				13.00000	14.00000	40.00000	0.0	0.0	0.0
				14.00000	14.00000	40.00000	0.0	0.0	0.0
				15.00000	14.00000	40.00000	0.0	0.0	0.0
				16.00000	14.00000	40.00000	0.0	0.0	0.0
				17.00000	14.00000	40.00000	0.0	0.0	0.0
				18.00000	14.00000	40.00000	0.0	0.0	0.0
				19.00000	14.00000	40.00000	0.0	0.0	0.0
				20.00000	14.00000	40.00000	0.0	0.0	0.0
				21.00000	14.00000	40.00000	0.0	0.0	0.0
				22.00000	14.00000	40.00000	0.0	0.0	0.0
				23.00000	14.00000	40.00000	0.0	0.0	0.0
				24.00000	14.00000	40.00000	0.0	0.0	0.0
				25.00000	14.00000	40.00000	0.0	0.0	0.0
				26.00000	14.00000	40.00000	0.0	0.0	0.0
				27.00000	14.00000	40.00000	0.0	0.0	0.0
				28.00000	14.00000	40.00000	0.0	0.0	0.0
				29.00000	14.00000	40.00000	0.0	0.0	0.0
				30.00000	14.00000	40.00000	0.0	0.0	0.0
				31.00000	14.00000	40.00000	0.0	0.0	0.0
				32.00000	14.00000	40.00000	0.0	0.0	0.0
				33.00000	14.00000	40.00000	0.0	0.0	0.0
				34.00000	14.00000	40.00000	0.0	0.0	0.0
				35.00000	14.00000	40.00000	0.0	0.0	0.0
				36.00000	14.00000	40.00000	0.0	0.0	0.0
				37.00000	14.00000	40.00000	0.0	0.0	0.0
				38.00000	14.00000	40.00000	0.0	0.0	0.0
				39.00000	14.00000	40.00000	0.0	0.0	0.0
				40.00000	14.00000	40.00000	0.0	0.0	0.0
				41.00000	14.00000	40.00000	0.0	0.0	0.0
				42.00000	14.00000	40.00000	0.0	0.0	0.0
				43.00000	14.00000	40.00000	0.0	0.0	0.0
				44.00000	14.00000	40.00000	0.0	0.0	0.0
				45.00000	14.00000	40.00000	0.0	0.0	0.0
				46.00000	14.00000	40.00000	0.0	0.0	0.0
				47.00000	14.00000	40.00000	0.0	0.0	0.0
				48.00000	14.00000	40.00000	0.0	0.0	0.0
				49.00000	14.00000	40.00000	0.0	0.0	0.0
				50.00000	14.00000	40.00000	0.0	0.0	0.0
				0.00000	15.00000	40.00000	0.0	0.0	0.0
				1.00000	15.00000	40.00000	0.0	0.0	0.0
				2.00000	15.00000	40.00000	0.0	0.0	0.0
				3.00000	15.00000	40.00000	0.0	0.0	0.0
				4.00000	15.00000	40.00000	0.0	0.0	0.0
				5.00000	15.00000	40.00000	0.0	0.0	0.0
				6.00000	15.00000	40.00000	0.0	0.0	0.0
				7.00000	15.00000	40.00000	0.0	0.0	0.0
				8.00000	15.00000	40.00000	0.0	0.0	0.0
				9.00000	15.00000	40.00000	0.0	0.0	0.0
				10.00000	15.00000	40.00000	0.0	0.0	0.0
				11.00000	15.00000	40.00000	0.0	0.0	0.0
				12.00000	15.00000	40.00000	0.0	0.0	0.0
				13.00000	15.00000	40.00000	0.0	0.0	0.0
				14.00000	15.00000	40.00000	0.0	0.0	0.0
				15.00000	15.00000	40.00000	0.0	0.0	0.0
				16.00000	15.00000	40.00000	0.0	0.0	0.0
				17.00000	15.00000	40.00000	0.0	0.0	0.0
				18.00000	15.00000	40.00000	0.0	0.0	0.0
				19.00000	15.00000	40.00000	0.0	0.0	0.0
				20.00000	15.00000	40.00000	0.0	0.0	0.0
				21.00000	15.00000	40.00000	0.0	0.0	0.0
				22.00000	15.00000	40.00000	0.0	0.0	0.0
				23.00000	15.00000	40.00000	0.0	0.0	0.0
				24.00000	15.00000	40.00000	0.0	0.0	0.0
				25.00000	15.00000	40.00000	0.0	0.0	0.0
				26.00000	15.00000	40.00000	0.0	0.0	0.0
				27.00000	15.00000	40.00000	0.0	0.0	0.0
				28.00000	15.00000	40.00000	0.0	0.0	0.0
				29.00000	15.00000	40.00000	0.0	0.0	0.0
				30.00000	15.00000	40.00000	0.0	0.0	0.0
				31.00000	15.00000	40.00000	0.0	0.0	0.0
				32.00000	15.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				33.00000	15.00000	40.00000	0.0	0.0	0.0
				34.00000	15.00000	40.00000	0.0	0.0	0.0
				35.00000	15.00000	40.00000	0.0	0.0	0.0
				36.00000	15.00000	40.00000	0.0	0.0	0.0
				37.00000	15.00000	40.00000	0.0	0.0	0.0
				38.00000	15.00000	40.00000	0.0	0.0	0.0
				39.00000	15.00000	40.00000	0.0	0.0	0.0
				40.00000	15.00000	40.00000	0.0	0.0	0.0
				41.00000	15.00000	40.00000	0.0	0.0	0.0
				42.00000	15.00000	40.00000	0.0	0.0	0.0
				43.00000	15.00000	40.00000	0.0	0.0	0.0
				44.00000	15.00000	40.00000	0.0	0.0	0.0
				45.00000	15.00000	40.00000	0.0	0.0	0.0
				46.00000	15.00000	40.00000	0.0	0.0	0.0
				47.00000	15.00000	40.00000	0.0	0.0	0.0
				48.00000	15.00000	40.00000	0.0	0.0	0.0
				49.00000	15.00000	40.00000	0.0	0.0	0.0
				50.00000	15.00000	40.00000	0.0	0.0	0.0
				0.00000	16.00000	40.00000	0.0	0.0	0.0
				1.00000	16.00000	40.00000	0.0	0.0	0.0
				2.00000	16.00000	40.00000	0.0	0.0	0.0
				3.00000	16.00000	40.00000	0.0	0.0	0.0
				4.00000	16.00000	40.00000	0.0	0.0	0.0
				5.00000	16.00000	40.00000	0.0	0.0	0.0
				6.00000	16.00000	40.00000	0.0	0.0	0.0
				7.00000	16.00000	40.00000	0.0	0.0	0.0
				8.00000	16.00000	40.00000	0.0	0.0	0.0
				9.00000	16.00000	40.00000	0.0	0.0	0.0
				10.00000	16.00000	40.00000	0.0	0.0	0.0
				11.00000	16.00000	40.00000	0.0	0.0	0.0
				12.00000	16.00000	40.00000	0.0	0.0	0.0
				13.00000	16.00000	40.00000	0.0	0.0	0.0
				14.00000	16.00000	40.00000	0.0	0.0	0.0
				15.00000	16.00000	40.00000	0.0	0.0	0.0
				16.00000	16.00000	40.00000	0.0	0.0	0.0
				17.00000	16.00000	40.00000	0.0	0.0	0.0
				18.00000	16.00000	40.00000	0.0	0.0	0.0
				19.00000	16.00000	40.00000	0.0	0.0	0.0
				20.00000	16.00000	40.00000	0.0	0.0	0.0
				21.00000	16.00000	40.00000	0.0	0.0	0.0
				22.00000	16.00000	40.00000	0.0	0.0	0.0
				23.00000	16.00000	40.00000	0.0	0.0	0.0
				24.00000	16.00000	40.00000	0.0	0.0	0.0
				25.00000	16.00000	40.00000	0.0	0.0	0.0
				26.00000	16.00000	40.00000	0.0	0.0	0.0
				27.00000	16.00000	40.00000	0.0	0.0	0.0
				28.00000	16.00000	40.00000	0.0	0.0	0.0
				29.00000	16.00000	40.00000	0.0	0.0	0.0
				30.00000	16.00000	40.00000	0.0	0.0	0.0
				31.00000	16.00000	40.00000	0.0	0.0	0.0
				32.00000	16.00000	40.00000	0.0	0.0	0.0
				33.00000	16.00000	40.00000	0.0	0.0	0.0
				34.00000	16.00000	40.00000	0.0	0.0	0.0
				35.00000	16.00000	40.00000	0.0	0.0	0.0
				36.00000	16.00000	40.00000	0.0	0.0	0.0
				37.00000	16.00000	40.00000	0.0	0.0	0.0
				38.00000	16.00000	40.00000	0.0	0.0	0.0
				39.00000	16.00000	40.00000	0.0	0.0	0.0
				40.00000	16.00000	40.00000	0.0	0.0	0.0
				41.00000	16.00000	40.00000	0.0	0.0	0.0
				42.00000	16.00000	40.00000	0.0	0.0	0.0
				43.00000	16.00000	40.00000	0.0	0.0	0.0
				44.00000	16.00000	40.00000	0.0	0.0	0.0
				45.00000	16.00000	40.00000	0.0	0.0	0.0
				46.00000	16.00000	40.00000	0.0	0.0	0.0
				47.00000	16.00000	40.00000	0.0	0.0	0.0
				48.00000	16.00000	40.00000	0.0	0.0	0.0
				49.00000	16.00000	40.00000	0.0	0.0	0.0
				50.00000	16.00000	40.00000	0.0	0.0	0.0
				0.00000	17.00000	40.00000	0.0	0.0	0.0
				1.00000	17.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023

Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				2.00000	17.00000	40.00000	0.0	0.0	0.0
				3.00000	17.00000	40.00000	0.0	0.0	0.0
				4.00000	17.00000	40.00000	0.0	0.0	0.0
				5.00000	17.00000	40.00000	0.0	0.0	0.0
				6.00000	17.00000	40.00000	0.0	0.0	0.0
				7.00000	17.00000	40.00000	0.0	0.0	0.0
				8.00000	17.00000	40.00000	0.0	0.0	0.0
				9.00000	17.00000	40.00000	0.0	0.0	0.0
				10.00000	17.00000	40.00000	0.0	0.0	0.0
				11.00000	17.00000	40.00000	0.0	0.0	0.0
				12.00000	17.00000	40.00000	0.0	0.0	0.0
				13.00000	17.00000	40.00000	0.0	0.0	0.0
				14.00000	17.00000	40.00000	0.0	0.0	0.0
				15.00000	17.00000	40.00000	0.0	0.0	0.0
				16.00000	17.00000	40.00000	0.0	0.0	0.0
				17.00000	17.00000	40.00000	0.0	0.0	0.0
				18.00000	17.00000	40.00000	0.0	0.0	0.0
				19.00000	17.00000	40.00000	0.0	0.0	0.0
				20.00000	17.00000	40.00000	0.0	0.0	0.0
				21.00000	17.00000	40.00000	0.0	0.0	0.0
				22.00000	17.00000	40.00000	0.0	0.0	0.0
				23.00000	17.00000	40.00000	0.0	0.0	0.0
				24.00000	17.00000	40.00000	0.0	0.0	0.0
				25.00000	17.00000	40.00000	0.0	0.0	0.0
				26.00000	17.00000	40.00000	0.0	0.0	0.0
				27.00000	17.00000	40.00000	0.0	0.0	0.0
				28.00000	17.00000	40.00000	0.0	0.0	0.0
				29.00000	17.00000	40.00000	0.0	0.0	0.0
				30.00000	17.00000	40.00000	0.0	0.0	0.0
				31.00000	17.00000	40.00000	0.0	0.0	0.0
				32.00000	17.00000	40.00000	0.0	0.0	0.0
				33.00000	17.00000	40.00000	0.0	0.0	0.0
				34.00000	17.00000	40.00000	0.0	0.0	0.0
				35.00000	17.00000	40.00000	0.0	0.0	0.0
				36.00000	17.00000	40.00000	0.0	0.0	0.0
				37.00000	17.00000	40.00000	0.0	0.0	0.0
				38.00000	17.00000	40.00000	0.0	0.0	0.0
				39.00000	17.00000	40.00000	0.0	0.0	0.0
				40.00000	17.00000	40.00000	0.0	0.0	0.0
				41.00000	17.00000	40.00000	0.0	0.0	0.0
				42.00000	17.00000	40.00000	0.0	0.0	0.0
				43.00000	17.00000	40.00000	0.0	0.0	0.0
				44.00000	17.00000	40.00000	0.0	0.0	0.0
				45.00000	17.00000	40.00000	0.0	0.0	0.0
				46.00000	17.00000	40.00000	0.0	0.0	0.0
				47.00000	17.00000	40.00000	0.0	0.0	0.0
				48.00000	17.00000	40.00000	0.0	0.0	0.0
				49.00000	17.00000	40.00000	0.0	0.0	0.0
				50.00000	17.00000	40.00000	0.0	0.0	0.0
				0.00000	18.00000	40.00000	0.0	0.0	0.0
				1.00000	18.00000	40.00000	0.0	0.0	0.0
				2.00000	18.00000	40.00000	0.0	0.0	0.0
				3.00000	18.00000	40.00000	0.0	0.0	0.0
				4.00000	18.00000	40.00000	0.0	0.0	0.0
				5.00000	18.00000	40.00000	0.0	0.0	0.0
				6.00000	18.00000	40.00000	0.0	0.0	0.0
				7.00000	18.00000	40.00000	0.0	0.0	0.0
				8.00000	18.00000	40.00000	0.0	0.0	0.0
				9.00000	18.00000	40.00000	0.0	0.0	0.0
				10.00000	18.00000	40.00000	0.0	0.0	0.0
				11.00000	18.00000	40.00000	0.0	0.0	0.0
				12.00000	18.00000	40.00000	0.0	0.0	0.0
				13.00000	18.00000	40.00000	0.0	0.0	0.0
				14.00000	18.00000	40.00000	0.0	0.0	0.0
				15.00000	18.00000	40.00000	0.0	0.0	0.0
				16.00000	18.00000	40.00000	0.0	0.0	0.0
				17.00000	18.00000	40.00000	0.0	0.0	0.0
				18.00000	18.00000	40.00000	0.0	0.0	0.0
				19.00000	18.00000	40.00000	0.0	0.0	0.0
				20.00000	18.00000	40.00000	0.0	0.0	0.0
				21.00000	18.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				22.00000	18.00000	40.00000	0.0	0.0	0.0
				23.00000	18.00000	40.00000	0.0	0.0	0.0
				24.00000	18.00000	40.00000	0.0	0.0	0.0
				25.00000	18.00000	40.00000	0.0	0.0	0.0
				26.00000	18.00000	40.00000	0.0	0.0	0.0
				27.00000	18.00000	40.00000	0.0	0.0	0.0
				28.00000	18.00000	40.00000	0.0	0.0	0.0
				29.00000	18.00000	40.00000	0.0	0.0	0.0
				30.00000	18.00000	40.00000	0.0	0.0	0.0
				31.00000	18.00000	40.00000	0.0	0.0	0.0
				32.00000	18.00000	40.00000	0.0	0.0	0.0
				33.00000	18.00000	40.00000	0.0	0.0	0.0
				34.00000	18.00000	40.00000	0.0	0.0	0.0
				35.00000	18.00000	40.00000	0.0	0.0	0.0
				36.00000	18.00000	40.00000	0.0	0.0	0.0
				37.00000	18.00000	40.00000	0.0	0.0	0.0
				38.00000	18.00000	40.00000	0.0	0.0	0.0
				39.00000	18.00000	40.00000	0.0	0.0	0.0
				40.00000	18.00000	40.00000	0.0	0.0	0.0
				41.00000	18.00000	40.00000	0.0	0.0	0.0
				42.00000	18.00000	40.00000	0.0	0.0	0.0
				43.00000	18.00000	40.00000	0.0	0.0	0.0
				44.00000	18.00000	40.00000	0.0	0.0	0.0
				45.00000	18.00000	40.00000	0.0	0.0	0.0
				46.00000	18.00000	40.00000	0.0	0.0	0.0
				47.00000	18.00000	40.00000	0.0	0.0	0.0
				48.00000	18.00000	40.00000	0.0	0.0	0.0
				49.00000	18.00000	40.00000	0.0	0.0	0.0
				50.00000	18.00000	40.00000	0.0	0.0	0.0
				0.00000	19.00000	40.00000	0.0	0.0	0.0
				1.00000	19.00000	40.00000	0.0	0.0	0.0
				2.00000	19.00000	40.00000	0.0	0.0	0.0
				3.00000	19.00000	40.00000	0.0	0.0	0.0
				4.00000	19.00000	40.00000	0.0	0.0	0.0
				5.00000	19.00000	40.00000	0.0	0.0	0.0
				6.00000	19.00000	40.00000	0.0	0.0	0.0
				7.00000	19.00000	40.00000	0.0	0.0	0.0
				8.00000	19.00000	40.00000	0.0	0.0	0.0
				9.00000	19.00000	40.00000	0.0	0.0	0.0
				10.00000	19.00000	40.00000	0.0	0.0	0.0
				11.00000	19.00000	40.00000	0.0	0.0	0.0
				12.00000	19.00000	40.00000	0.0	0.0	0.0
				13.00000	19.00000	40.00000	0.0	0.0	0.0
				14.00000	19.00000	40.00000	0.0	0.0	0.0
				15.00000	19.00000	40.00000	0.0	0.0	0.0
				16.00000	19.00000	40.00000	0.0011826	0.0042776	0.38293
				17.00000	19.00000	40.00000	0.021536	0.10883	0.48903
				18.00000	19.00000	40.00000	0.024707	0.19684	0.56649
				19.00000	19.00000	40.00000	0.015570	0.26152	0.61367
				20.00000	19.00000	40.00000	0.0	0.29575	0.62952
				21.00000	19.00000	40.00000	0.0	0.29575	0.62952
				22.00000	19.00000	40.00000	0.0	0.29575	0.62952
				23.00000	19.00000	40.00000	0.0	0.29575	0.62952
				24.00000	19.00000	40.00000	0.0	0.29575	0.62952
				25.00000	19.00000	40.00000	0.0	0.29575	0.62952
				26.00000	19.00000	40.00000	0.0	0.29575	0.62952
				27.00000	19.00000	40.00000	0.0	0.29575	0.62952
				28.00000	19.00000	40.00000	-0.015570	0.26152	0.61367
				29.00000	19.00000	40.00000	-0.024707	0.19684	0.56649
				30.00000	19.00000	40.00000	-0.021536	0.10883	0.48903
				31.00000	19.00000	40.00000	-0.0011826	0.0042776	0.38293
				32.00000	19.00000	40.00000	0.0	0.0	0.0
				33.00000	19.00000	40.00000	0.0	0.0	0.0
				34.00000	19.00000	40.00000	0.0	0.0	0.0
				35.00000	19.00000	40.00000	0.0	0.0	0.0
				36.00000	19.00000	40.00000	0.0	0.0	0.0
				37.00000	19.00000	40.00000	0.0	0.0	0.0
				38.00000	19.00000	40.00000	0.0	0.0	0.0
				39.00000	19.00000	40.00000	0.0	0.0	0.0
				40.00000	19.00000	40.00000	0.0	0.0	0.0
				41.00000	19.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				42.00000	19.00000	40.00000	0.0	0.0	0.0
				43.00000	19.00000	40.00000	0.0	0.0	0.0
				44.00000	19.00000	40.00000	0.0	0.0	0.0
				45.00000	19.00000	40.00000	0.0	0.0	0.0
				46.00000	19.00000	40.00000	0.0	0.0	0.0
				47.00000	19.00000	40.00000	0.0	0.0	0.0
				48.00000	19.00000	40.00000	0.0	0.0	0.0
				49.00000	19.00000	40.00000	0.0	0.0	0.0
				50.00000	19.00000	40.00000	0.0	0.0	0.0
				0.00000	20.00000	40.00000	0.0	0.0	0.0
				1.00000	20.00000	40.00000	0.0	0.0	0.0
				2.00000	20.00000	40.00000	0.0	0.0	0.0
				3.00000	20.00000	40.00000	0.0	0.0	0.0
				4.00000	20.00000	40.00000	0.0	0.0	0.0
				5.00000	20.00000	40.00000	0.0	0.0	0.0
				6.00000	20.00000	40.00000	0.0	0.0	0.0
				7.00000	20.00000	40.00000	0.0	0.0	0.0
				8.00000	20.00000	40.00000	0.0	0.0	0.0
				9.00000	20.00000	40.00000	0.0	0.0	0.0
				10.00000	20.00000	40.00000	0.0	0.0	0.0
				11.00000	20.00000	40.00000	0.0	0.0	0.0
				12.00000	20.00000	40.00000	0.0	0.0	0.0
				13.00000	20.00000	40.00000	0.0	0.0	0.0
				14.00000	20.00000	40.00000	0.011329	0.022408	0.40695
				15.00000	20.00000	40.00000	0.066922	0.16568	0.57588
				16.00000	20.00000	40.00000	0.094708	0.30691	0.71945
				17.00000	20.00000	40.00000	0.096967	0.44045	0.83482
				18.00000	20.00000	40.00000	0.077772	0.55920	0.91938
				19.00000	20.00000	40.00000	0.042994	0.65479	0.97105
				20.00000	20.00000	40.00000	0.0	0.71825	0.98843
				21.00000	20.00000	40.00000	0.0	0.71825	0.98843
				22.00000	20.00000	40.00000	0.0	0.71825	0.98843
				23.00000	20.00000	40.00000	0.0	0.71825	0.98843
				24.00000	20.00000	40.00000	0.0	0.71825	0.98843
				25.00000	20.00000	40.00000	0.0	0.71825	0.98843
				26.00000	20.00000	40.00000	0.0	0.71825	0.98843
				27.00000	20.00000	40.00000	0.0	0.71825	0.98843
				28.00000	20.00000	40.00000	-0.042994	0.65479	0.97105
				29.00000	20.00000	40.00000	-0.077772	0.55920	0.91938
				30.00000	20.00000	40.00000	-0.096967	0.44045	0.83482
				31.00000	20.00000	40.00000	-0.094708	0.30691	0.71945
				32.00000	20.00000	40.00000	-0.066922	0.16568	0.57588
				33.00000	20.00000	40.00000	-0.011329	0.022408	0.40695
				34.00000	20.00000	40.00000	0.0	0.0	0.0
				35.00000	20.00000	40.00000	0.0	0.0	0.0
				36.00000	20.00000	40.00000	0.0	0.0	0.0
				37.00000	20.00000	40.00000	0.0	0.0	0.0
				38.00000	20.00000	40.00000	0.0	0.0	0.0
				39.00000	20.00000	40.00000	0.0	0.0	0.0
				40.00000	20.00000	40.00000	0.0	0.0	0.0
				41.00000	20.00000	40.00000	0.0	0.0	0.0
				42.00000	20.00000	40.00000	0.0	0.0	0.0
				43.00000	20.00000	40.00000	0.0	0.0	0.0
				44.00000	20.00000	40.00000	0.0	0.0	0.0
				45.00000	20.00000	40.00000	0.0	0.0	0.0
				46.00000	20.00000	40.00000	0.0	0.0	0.0
				47.00000	20.00000	40.00000	0.0	0.0	0.0
				48.00000	20.00000	40.00000	0.0	0.0	0.0
				49.00000	20.00000	40.00000	0.0	0.0	0.0
				50.00000	20.00000	40.00000	0.0	0.0	0.0
				0.00000	21.00000	40.00000	0.0	0.0	0.0
				1.00000	21.00000	40.00000	0.0	0.0	0.0
				2.00000	21.00000	40.00000	0.0	0.0	0.0
				3.00000	21.00000	40.00000	0.0	0.0	0.0
				4.00000	21.00000	40.00000	0.0	0.0	0.0
				5.00000	21.00000	40.00000	0.0	0.0	0.0
				6.00000	21.00000	40.00000	0.0	0.0	0.0
				7.00000	21.00000	40.00000	0.0	0.0	0.0
				8.00000	21.00000	40.00000	0.0	0.0	0.0
				9.00000	21.00000	40.00000	0.0	0.0	0.0
				10.00000	21.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

J23059

Drg. Ref.

Made by AT Date 25-Apr-2023

Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				11.00000	21.00000	40.00000	0.0	0.0	0.0
				12.00000	21.00000	40.00000	0.0	0.0	0.0
				13.00000	21.00000	40.00000	0.062474	0.089619	0.50749
				14.00000	21.00000	40.00000	0.14371	0.25027	0.71296
				15.00000	21.00000	40.00000	0.19121	0.41766	0.89551
				16.00000	21.00000	40.00000	0.20499	0.58773	1.0517
				17.00000	21.00000	40.00000	0.18701	0.75437	1.1780
				18.00000	21.00000	40.00000	0.14172	0.90920	1.2710
				19.00000	21.00000	40.00000	0.076245	1.0419	1.3281
				20.00000	21.00000	40.00000	0.0	1.1408	1.3473
				21.00000	21.00000	40.00000	0.0	1.1408	1.3473
				22.00000	21.00000	40.00000	0.0	1.1408	1.3473
				23.00000	21.00000	40.00000	0.0	1.1408	1.3473
				24.00000	21.00000	40.00000	0.0	1.1408	1.3473
				25.00000	21.00000	40.00000	0.0	1.1408	1.3473
				26.00000	21.00000	40.00000	0.0	1.1408	1.3473
				27.00000	21.00000	40.00000	0.0	1.1408	1.3473
				28.00000	21.00000	40.00000	-0.076245	1.0419	1.3281
				29.00000	21.00000	40.00000	-0.14172	0.90920	1.2710
				30.00000	21.00000	40.00000	-0.18701	0.75437	1.1780
				31.00000	21.00000	40.00000	-0.20499	0.58773	1.0517
				32.00000	21.00000	40.00000	-0.19121	0.41766	0.89551
				33.00000	21.00000	40.00000	-0.14371	0.25027	0.71296
				34.00000	21.00000	40.00000	-0.062474	0.089619	0.50749
				35.00000	21.00000	40.00000	0.0	0.0	0.0
				36.00000	21.00000	40.00000	0.0	0.0	0.0
				37.00000	21.00000	40.00000	0.0	0.0	0.0
				38.00000	21.00000	40.00000	0.0	0.0	0.0
				39.00000	21.00000	40.00000	0.0	0.0	0.0
				40.00000	21.00000	40.00000	0.0	0.0	0.0
				41.00000	21.00000	40.00000	0.0	0.0	0.0
				42.00000	21.00000	40.00000	0.0	0.0	0.0
				43.00000	21.00000	40.00000	0.0	0.0	0.0
				44.00000	21.00000	40.00000	0.0	0.0	0.0
				45.00000	21.00000	40.00000	0.0	0.0	0.0
				46.00000	21.00000	40.00000	0.0	0.0	0.0
				47.00000	21.00000	40.00000	0.0	0.0	0.0
				48.00000	21.00000	40.00000	0.0	0.0	0.0
				49.00000	21.00000	40.00000	0.0	0.0	0.0
				50.00000	21.00000	40.00000	0.0	0.0	0.0
				0.00000	22.00000	40.00000	0.0	0.0	0.0
				1.00000	22.00000	40.00000	0.0	0.0	0.0
				2.00000	22.00000	40.00000	0.0	0.0	0.0
				3.00000	22.00000	40.00000	0.0	0.0	0.0
				4.00000	22.00000	40.00000	0.0	0.0	0.0
				5.00000	22.00000	40.00000	0.0	0.0	0.0
				6.00000	22.00000	40.00000	0.0	0.0	0.0
				7.00000	22.00000	40.00000	0.0	0.0	0.0
				8.00000	22.00000	40.00000	0.0	0.0	0.0
				9.00000	22.00000	40.00000	0.0	0.0	0.0
				10.00000	22.00000	40.00000	0.0	0.0	0.0
				11.00000	22.00000	40.00000	0.0	0.0	0.0
				12.00000	22.00000	40.00000	0.097416	0.10209	0.54777
				13.00000	22.00000	40.00000	0.21526	0.26735	0.78826
				14.00000	22.00000	40.00000	0.29604	0.44689	1.0094
				15.00000	22.00000	40.00000	0.33692	0.63919	1.2075
				16.00000	22.00000	40.00000	0.33658	0.84069	1.3783
				17.00000	22.00000	40.00000	0.29614	1.0451	1.5176
				18.00000	22.00000	40.00000	0.22021	1.2427	1.6210
				19.00000	22.00000	40.00000	0.11739	1.4205	1.6847
				20.00000	22.00000	40.00000	0.0	1.5632	1.7062
				21.00000	22.00000	40.00000	0.0	1.5632	1.7062
				22.00000	22.00000	40.00000	0.0	1.5632	1.7062
				23.00000	22.00000	40.00000	0.0	1.5632	1.7062
				24.00000	22.00000	40.00000	0.0	1.5632	1.7062
				25.00000	22.00000	40.00000	0.0	1.5632	1.7062
				26.00000	22.00000	40.00000	0.0	1.5632	1.7062
				27.00000	22.00000	40.00000	0.0	1.5632	1.7062
				28.00000	22.00000	40.00000	-0.11739	1.4205	1.6847
				29.00000	22.00000	40.00000	-0.22021	1.2427	1.6210
				30.00000	22.00000	40.00000	-0.29614	1.0451	1.5176



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				31.00000	22.00000	40.00000	-0.33658	0.84069	1.3783
				32.00000	22.00000	40.00000	-0.33692	0.63919	1.2075
				33.00000	22.00000	40.00000	-0.29604	0.44689	1.0094
				34.00000	22.00000	40.00000	-0.21526	0.26735	0.78826
				35.00000	22.00000	40.00000	-0.097416	0.10209	0.54777
				36.00000	22.00000	40.00000	0.0	0.0	0.0
				37.00000	22.00000	40.00000	0.0	0.0	0.0
				38.00000	22.00000	40.00000	0.0	0.0	0.0
				39.00000	22.00000	40.00000	0.0	0.0	0.0
				40.00000	22.00000	40.00000	0.0	0.0	0.0
				41.00000	22.00000	40.00000	0.0	0.0	0.0
				42.00000	22.00000	40.00000	0.0	0.0	0.0
				43.00000	22.00000	40.00000	0.0	0.0	0.0
				44.00000	22.00000	40.00000	0.0	0.0	0.0
				45.00000	22.00000	40.00000	0.0	0.0	0.0
				46.00000	22.00000	40.00000	0.0	0.0	0.0
				47.00000	22.00000	40.00000	0.0	0.0	0.0
				48.00000	22.00000	40.00000	0.0	0.0	0.0
				49.00000	22.00000	40.00000	0.0	0.0	0.0
				50.00000	22.00000	40.00000	0.0	0.0	0.0
				0.00000	23.00000	40.00000	0.0	0.0	0.0
				1.00000	23.00000	40.00000	0.0	0.0	0.0
				2.00000	23.00000	40.00000	0.0	0.0	0.0
				3.00000	23.00000	40.00000	0.0	0.0	0.0
				4.00000	23.00000	40.00000	0.0	0.0	0.0
				5.00000	23.00000	40.00000	0.0	0.0	0.0
				6.00000	23.00000	40.00000	0.0	0.0	0.0
				7.00000	23.00000	40.00000	0.0	0.0	0.0
				8.00000	23.00000	40.00000	0.0	0.0	0.0
				9.00000	23.00000	40.00000	0.0	0.0	0.0
				10.00000	23.00000	40.00000	0.0	0.0	0.0
				11.00000	23.00000	40.00000	0.098466	0.075454	0.52603
				12.00000	23.00000	40.00000	0.26154	0.23276	0.79819
				13.00000	23.00000	40.00000	0.38781	0.40909	1.0552
				14.00000	23.00000	40.00000	0.47198	0.60567	1.2937
				15.00000	23.00000	40.00000	0.50911	0.82254	1.5095
				16.00000	23.00000	40.00000	0.49561	1.0575	1.6976
				17.00000	23.00000	40.00000	0.43079	1.3047	1.8525
				18.00000	23.00000	40.00000	0.31870	1.5534	1.9686
				19.00000	23.00000	40.00000	0.16961	1.7873	2.0407
				20.00000	23.00000	40.00000	0.0	1.9858	2.0651
				21.00000	23.00000	40.00000	0.0	1.9858	2.0651
				22.00000	23.00000	40.00000	0.0	1.9858	2.0651
				23.00000	23.00000	40.00000	0.0	1.9858	2.0651
				24.00000	23.00000	40.00000	0.0	1.9858	2.0651
				25.00000	23.00000	40.00000	0.0	1.9858	2.0651
				26.00000	23.00000	40.00000	0.0	1.9858	2.0651
				27.00000	23.00000	40.00000	0.0	1.9858	2.0651
				28.00000	23.00000	40.00000	-0.16961	1.7873	2.0407
				29.00000	23.00000	40.00000	-0.31870	1.5534	1.9686
				30.00000	23.00000	40.00000	-0.43079	1.3047	1.8525
				31.00000	23.00000	40.00000	-0.49561	1.0575	1.6976
				32.00000	23.00000	40.00000	-0.50911	0.82254	1.5095
				33.00000	23.00000	40.00000	-0.47198	0.60567	1.2937
				34.00000	23.00000	40.00000	-0.38781	0.40909	1.0552
				35.00000	23.00000	40.00000	-0.26154	0.23276	0.79819
				36.00000	23.00000	40.00000	-0.098466	0.075454	0.52603
				37.00000	23.00000	40.00000	0.0	0.0	0.0
				38.00000	23.00000	40.00000	0.0	0.0	0.0
				39.00000	23.00000	40.00000	0.0	0.0	0.0
				40.00000	23.00000	40.00000	0.0	0.0	0.0
				41.00000	23.00000	40.00000	0.0	0.0	0.0
				42.00000	23.00000	40.00000	0.0	0.0	0.0
				43.00000	23.00000	40.00000	0.0	0.0	0.0
				44.00000	23.00000	40.00000	0.0	0.0	0.0
				45.00000	23.00000	40.00000	0.0	0.0	0.0
				46.00000	23.00000	40.00000	0.0	0.0	0.0
				47.00000	23.00000	40.00000	0.0	0.0	0.0
				48.00000	23.00000	40.00000	0.0	0.0	0.0
				49.00000	23.00000	40.00000	0.0	0.0	0.0
				50.00000	23.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

J23059

Drg. Ref.

Made by AT Date 25-Apr-2023

Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				0.00000	24.00000	40.00000	0.0	0.0	0.0
				1.00000	24.00000	40.00000	0.0	0.0	0.0
				2.00000	24.00000	40.00000	0.0	0.0	0.0
				3.00000	24.00000	40.00000	0.0	0.0	0.0
				4.00000	24.00000	40.00000	0.0	0.0	0.0
				5.00000	24.00000	40.00000	0.0	0.0	0.0
				6.00000	24.00000	40.00000	0.0	0.0	0.0
				7.00000	24.00000	40.00000	0.0	0.0	0.0
				8.00000	24.00000	40.00000	0.0	0.0	0.0
				9.00000	24.00000	40.00000	0.0	0.0	0.0
				10.00000	24.00000	40.00000	0.049089	0.027362	0.44324
				11.00000	24.00000	40.00000	0.26187	0.16658	0.74226
				12.00000	24.00000	40.00000	0.44171	0.32604	1.0305
				13.00000	24.00000	40.00000	0.58207	0.50902	1.3051
				14.00000	24.00000	40.00000	0.67548	0.71877	1.5627
				15.00000	24.00000	40.00000	0.71401	0.95782	1.7985
				16.00000	24.00000	40.00000	0.69040	1.2267	2.0068
				17.00000	24.00000	40.00000	0.60033	1.5215	2.1808
				18.00000	24.00000	40.00000	0.44567	1.8317	2.3128
				19.00000	24.00000	40.00000	0.23800	2.1369	2.3957
				20.00000	24.00000	40.00000	0.0	2.4082	2.4240
				21.00000	24.00000	40.00000	0.0	2.4082	2.4240
				22.00000	24.00000	40.00000	0.0	2.4082	2.4240
				23.00000	24.00000	40.00000	0.0	2.4082	2.4240
				24.00000	24.00000	40.00000	0.0	2.4082	2.4240
				25.00000	24.00000	40.00000	0.0	2.4082	2.4240
				26.00000	24.00000	40.00000	0.0	2.4082	2.4240
				27.00000	24.00000	40.00000	0.0	2.4082	2.4240
				28.00000	24.00000	40.00000	-0.23800	2.1369	2.3957
				29.00000	24.00000	40.00000	-0.44567	1.8317	2.3128
				30.00000	24.00000	40.00000	-0.60033	1.5215	2.1808
				31.00000	24.00000	40.00000	-0.69040	1.2267	2.0068
				32.00000	24.00000	40.00000	-0.71401	0.95782	1.7985
				33.00000	24.00000	40.00000	-0.67548	0.71877	1.5627
				34.00000	24.00000	40.00000	-0.58207	0.50902	1.3051
				35.00000	24.00000	40.00000	-0.44171	0.32604	1.0305
				36.00000	24.00000	40.00000	-0.26187	0.16658	0.74226
				37.00000	24.00000	40.00000	-0.049089	0.027362	0.44324
				38.00000	24.00000	40.00000	0.0	0.0	0.0
				39.00000	24.00000	40.00000	0.0	0.0	0.0
				40.00000	24.00000	40.00000	0.0	0.0	0.0
				41.00000	24.00000	40.00000	0.0	0.0	0.0
				42.00000	24.00000	40.00000	0.0	0.0	0.0
				43.00000	24.00000	40.00000	0.0	0.0	0.0
				44.00000	24.00000	40.00000	0.0	0.0	0.0
				45.00000	24.00000	40.00000	0.0	0.0	0.0
				46.00000	24.00000	40.00000	0.0	0.0	0.0
				47.00000	24.00000	40.00000	0.0	0.0	0.0
				48.00000	24.00000	40.00000	0.0	0.0	0.0
				49.00000	24.00000	40.00000	0.0	0.0	0.0
				50.00000	24.00000	40.00000	0.0	0.0	0.0
				0.00000	25.00000	40.00000	0.0	0.0	0.0
				1.00000	25.00000	40.00000	0.0	0.0	0.0
				2.00000	25.00000	40.00000	0.0	0.0	0.0
				3.00000	25.00000	40.00000	0.0	0.0	0.0
				4.00000	25.00000	40.00000	0.0	0.0	0.0
				5.00000	25.00000	40.00000	0.0	0.0	0.0
				6.00000	25.00000	40.00000	0.0	0.0	0.0
				7.00000	25.00000	40.00000	0.0	0.0	0.0
				8.00000	25.00000	40.00000	0.0	0.0	0.0
				9.00000	25.00000	40.00000	0.0	0.0	0.0
				10.00000	25.00000	40.00000	0.19884	0.089442	0.62318
				11.00000	25.00000	40.00000	0.43450	0.22265	0.93652
				12.00000	25.00000	40.00000	0.63726	0.37828	1.2410
				13.00000	25.00000	40.00000	0.79915	0.56126	1.5339
				14.00000	25.00000	40.00000	0.91028	0.77734	1.8119
				15.00000	25.00000	40.00000	0.95885	1.0327	2.0701
				16.00000	25.00000	40.00000	0.93207	1.3325	2.3020
				17.00000	25.00000	40.00000	0.81875	1.6782	2.4994
				18.00000	25.00000	40.00000	0.61486	2.0618	2.6520
				19.00000	25.00000	40.00000	0.33138	2.4599	2.7494



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No.	Sheet No.	Rev.
D J23059		
Drg. Ref.		
Made by	Date	Checked
AT	25-Apr-2023	

Stage: Ref.	Stage: Name	Disp: Grid: Ref.	Disp: Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
20.00000	25.00000	40.00000					0.0	2.8308	2.7829
21.00000	25.00000	40.00000					0.0	2.8308	2.7829
22.00000	25.00000	40.00000					0.0	2.8308	2.7829
23.00000	25.00000	40.00000					0.0	2.8308	2.7829
24.00000	25.00000	40.00000					0.0	2.8308	2.7829
25.00000	25.00000	40.00000					0.0	2.8308	2.7829
26.00000	25.00000	40.00000					0.0	2.8308	2.7829
27.00000	25.00000	40.00000					0.0	2.8308	2.7829
28.00000	25.00000	40.00000					-0.33138	2.4599	2.7494
29.00000	25.00000	40.00000					-0.61486	2.0618	2.6520
30.00000	25.00000	40.00000					-0.81875	1.6782	2.4994
31.00000	25.00000	40.00000					-0.93207	1.3325	2.3020
32.00000	25.00000	40.00000					-0.95885	1.0327	2.0701
33.00000	25.00000	40.00000					-0.91028	0.77734	1.8119
34.00000	25.00000	40.00000					-0.79915	0.56126	1.5339
35.00000	25.00000	40.00000					-0.63726	0.37828	1.2410
36.00000	25.00000	40.00000					-0.43450	0.22265	0.93652
37.00000	25.00000	40.00000					-0.19884	0.089442	0.62318
38.00000	25.00000	40.00000					0.0	0.0	0.0
39.00000	25.00000	40.00000					0.0	0.0	0.0
40.00000	25.00000	40.00000					0.0	0.0	0.0
41.00000	25.00000	40.00000					0.0	0.0	0.0
42.00000	25.00000	40.00000					0.0	0.0	0.0
43.00000	25.00000	40.00000					0.0	0.0	0.0
44.00000	25.00000	40.00000					0.0	0.0	0.0
45.00000	25.00000	40.00000					0.0	0.0	0.0
46.00000	25.00000	40.00000					0.0	0.0	0.0
47.00000	25.00000	40.00000					0.0	0.0	0.0
48.00000	25.00000	40.00000					0.0	0.0	0.0
49.00000	25.00000	40.00000					0.0	0.0	0.0
50.00000	25.00000	40.00000					0.0	0.0	0.0
0.00000	26.00000	40.00000					0.0	0.0	0.0
1.00000	26.00000	40.00000					0.0	0.0	0.0
2.00000	26.00000	40.00000					0.0	0.0	0.0
3.00000	26.00000	40.00000					0.0	0.0	0.0
4.00000	26.00000	40.00000					0.0	0.0	0.0
5.00000	26.00000	40.00000					0.0	0.0	0.0
6.00000	26.00000	40.00000					0.0	0.0	0.0
7.00000	26.00000	40.00000					0.0	0.0	0.0
8.00000	26.00000	40.00000					0.0	0.0	0.0
9.00000	26.00000	40.00000					0.061041	0.018985	0.44627
10.00000	26.00000	40.00000					0.34920	0.12176	0.77836
11.00000	26.00000	40.00000					0.61296	0.24283	1.1053
12.00000	26.00000	40.00000					0.84565	0.38704	1.4254
13.00000	26.00000	40.00000					1.0383	0.56077	1.7367
14.00000	26.00000	40.00000					1.1788	0.77242	2.0358
15.00000	26.00000	40.00000					1.2511	1.0326	2.3183
16.00000	26.00000	40.00000					1.2348	1.3539	2.5774
17.00000	26.00000	40.00000					1.1071	1.7477	2.8034
18.00000	26.00000	40.00000					0.84985	2.2165	2.9831
19.00000	26.00000	40.00000					0.46618	2.7386	3.1007
20.00000	26.00000	40.00000					0.0	3.2532	3.1418
21.00000	26.00000	40.00000					0.0	3.2532	3.1418
22.00000	26.00000	40.00000					0.0	3.2532	3.1418
23.00000	26.00000	40.00000					0.0	3.2532	3.1418
24.00000	26.00000	40.00000					0.0	3.2532	3.1418
25.00000	26.00000	40.00000					0.0	3.2532	3.1418
26.00000	26.00000	40.00000					0.0	3.2532	3.1418
27.00000	26.00000	40.00000					0.0	3.2532	3.1418
28.00000	26.00000	40.00000					-0.46618	2.7386	3.1007
29.00000	26.00000	40.00000					-0.84985	2.2165	2.9831
30.00000	26.00000	40.00000					-1.1071	1.7477	2.8034
31.00000	26.00000	40.00000					-1.2348	1.3539	2.5774
32.00000	26.00000	40.00000					-1.2511	1.0326	2.3183
33.00000	26.00000	40.00000					-1.1788	0.77242	2.0358
34.00000	26.00000	40.00000					-1.0383	0.56077	1.7367
35.00000	26.00000	40.00000					-0.84565	0.38704	1.4254
36.00000	26.00000	40.00000					-0.61296	0.24283	1.1053
37.00000	26.00000	40.00000					-0.34920	0.12176	0.77836
38.00000	26.00000	40.00000					-0.061041	0.018985	0.44627
39.00000	26.00000	40.00000					0.0	0.0	0.0



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GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				40.00000	26.00000	40.00000	0.0	0.0	0.0
				41.00000	26.00000	40.00000	0.0	0.0	0.0
				42.00000	26.00000	40.00000	0.0	0.0	0.0
				43.00000	26.00000	40.00000	0.0	0.0	0.0
				44.00000	26.00000	40.00000	0.0	0.0	0.0
				45.00000	26.00000	40.00000	0.0	0.0	0.0
				46.00000	26.00000	40.00000	0.0	0.0	0.0
				47.00000	26.00000	40.00000	0.0	0.0	0.0
				48.00000	26.00000	40.00000	0.0	0.0	0.0
				49.00000	26.00000	40.00000	0.0	0.0	0.0
				50.00000	26.00000	40.00000	0.0	0.0	0.0
				0.00000	27.00000	40.00000	0.0	0.0	0.0
				1.00000	27.00000	40.00000	0.0	0.0	0.0
				2.00000	27.00000	40.00000	0.0	0.0	0.0
				3.00000	27.00000	40.00000	0.0	0.0	0.0
				4.00000	27.00000	40.00000	0.0	0.0	0.0
				5.00000	27.00000	40.00000	0.0	0.0	0.0
				6.00000	27.00000	40.00000	0.0	0.0	0.0
				7.00000	27.00000	40.00000	0.0	0.0	0.0
				8.00000	27.00000	40.00000	0.0	0.0	0.0
				9.00000	27.00000	40.00000	0.17744	0.040425	0.56337
				10.00000	27.00000	40.00000	0.49490	0.12599	0.90572
				11.00000	27.00000	40.00000	0.79175	0.22820	1.2447
				12.00000	27.00000	40.00000	1.0616	0.35211	1.5792
				13.00000	27.00000	40.00000	1.2954	0.50490	1.9076
				14.00000	27.00000	40.00000	1.4800	0.69686	2.2275
				15.00000	27.00000	40.00000	1.5960	0.94290	2.5350
				16.00000	27.00000	40.00000	1.6148	1.2643	2.8240
				17.00000	27.00000	40.00000	1.4964	1.6894	3.0845
				18.00000	27.00000	40.00000	1.1931	2.2466	3.3002
				19.00000	27.00000	40.00000	0.67680	2.9363	3.4476
				20.00000	27.00000	40.00000	0.0	3.6758	3.5007
				21.00000	27.00000	40.00000	0.0	3.6758	3.5007
				22.00000	27.00000	40.00000	0.0	3.6758	3.5007
				23.00000	27.00000	40.00000	0.0	3.6758	3.5007
				24.00000	27.00000	40.00000	0.0	3.6758	3.5007
				25.00000	27.00000	40.00000	0.0	3.6758	3.5007
				26.00000	27.00000	40.00000	0.0	3.6758	3.5007
				27.00000	27.00000	40.00000	0.0	3.6758	3.5007
				28.00000	27.00000	40.00000	-0.67680	2.9363	3.4476
				29.00000	27.00000	40.00000	-1.1931	2.2466	3.3002
				30.00000	27.00000	40.00000	-1.4964	1.6894	3.0845
				31.00000	27.00000	40.00000	-1.6148	1.2643	2.8240
				32.00000	27.00000	40.00000	-1.5960	0.94290	2.5350
				33.00000	27.00000	40.00000	-1.4800	0.69686	2.2275
				34.00000	27.00000	40.00000	-1.2954	0.50490	1.9076
				35.00000	27.00000	40.00000	-1.0616	0.35211	1.5792
				36.00000	27.00000	40.00000	-0.79175	0.22820	1.2447
				37.00000	27.00000	40.00000	-0.49490	0.12599	0.90572
				38.00000	27.00000	40.00000	-0.17744	0.040425	0.56337
				39.00000	27.00000	40.00000	0.0	0.0	0.0
				40.00000	27.00000	40.00000	0.0	0.0	0.0
				41.00000	27.00000	40.00000	0.0	0.0	0.0
				42.00000	27.00000	40.00000	0.0	0.0	0.0
				43.00000	27.00000	40.00000	0.0	0.0	0.0
				44.00000	27.00000	40.00000	0.0	0.0	0.0
				45.00000	27.00000	40.00000	0.0	0.0	0.0
				46.00000	27.00000	40.00000	0.0	0.0	0.0
				47.00000	27.00000	40.00000	0.0	0.0	0.0
				48.00000	27.00000	40.00000	0.0	0.0	0.0
				49.00000	27.00000	40.00000	0.0	0.0	0.0
				50.00000	27.00000	40.00000	0.0	0.0	0.0
				0.00000	28.00000	40.00000	0.0	0.0	0.0
				1.00000	28.00000	40.00000	0.0	0.0	0.0
				2.00000	28.00000	40.00000	0.0	0.0	0.0
				3.00000	28.00000	40.00000	0.0	0.0	0.0
				4.00000	28.00000	40.00000	0.0	0.0	0.0
				5.00000	28.00000	40.00000	0.0	0.0	0.0
				6.00000	28.00000	40.00000	0.0	0.0	0.0
				7.00000	28.00000	40.00000	0.0	0.0	0.0
				8.00000	28.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				9.00000	28.00000	40.00000	0.27974	0.042252	0.65182
				10.00000	28.00000	40.00000	0.62895	0.10574	1.0024
				11.00000	28.00000	40.00000	0.96287	0.18243	1.3512
				12.00000	28.00000	40.00000	1.2763	0.27679	1.6976
				13.00000	28.00000	40.00000	1.5614	0.39550	2.0407
				14.00000	28.00000	40.00000	1.8063	0.54884	2.3789
				15.00000	28.00000	40.00000	1.9914	0.75335	2.7099
				16.00000	28.00000	40.00000	2.0839	1.0367	3.0291
				17.00000	28.00000	40.00000	2.0268	1.4461	3.3284
				18.00000	28.00000	40.00000	1.7234	2.0588	3.5912
				19.00000	28.00000	40.00000	1.0471	2.9633	3.7850
				20.00000	28.00000	40.00000	0.0	4.0982	3.8596
				21.00000	28.00000	40.00000	0.0	4.0982	3.8596
				22.00000	28.00000	40.00000	0.0	4.0982	3.8596
				23.00000	28.00000	40.00000	0.0	4.0982	3.8596
				24.00000	28.00000	40.00000	0.0	4.0982	3.8596
				25.00000	28.00000	40.00000	0.0	4.0982	3.8596
				26.00000	28.00000	40.00000	0.0	4.0982	3.8596
				27.00000	28.00000	40.00000	0.0	4.0982	3.8596
				28.00000	28.00000	40.00000	-1.0471	2.9633	3.7850
				29.00000	28.00000	40.00000	-1.7234	2.0588	3.5912
				30.00000	28.00000	40.00000	-2.0268	1.4461	3.3284
				31.00000	28.00000	40.00000	-2.0839	1.0367	3.0291
				32.00000	28.00000	40.00000	-1.9914	0.75335	2.7099
				33.00000	28.00000	40.00000	-1.8063	0.54884	2.3789
				34.00000	28.00000	40.00000	-1.5614	0.39550	2.0407
				35.00000	28.00000	40.00000	-1.2763	0.27679	1.6976
				36.00000	28.00000	40.00000	-0.96287	0.18243	1.3512
				37.00000	28.00000	40.00000	-0.62895	0.10574	1.0024
				38.00000	28.00000	40.00000	-0.27974	0.042252	0.65182
				39.00000	28.00000	40.00000	0.0	0.0	0.0
				40.00000	28.00000	40.00000	0.0	0.0	0.0
				41.00000	28.00000	40.00000	0.0	0.0	0.0
				42.00000	28.00000	40.00000	0.0	0.0	0.0
				43.00000	28.00000	40.00000	0.0	0.0	0.0
				44.00000	28.00000	40.00000	0.0	0.0	0.0
				45.00000	28.00000	40.00000	0.0	0.0	0.0
				46.00000	28.00000	40.00000	0.0	0.0	0.0
				47.00000	28.00000	40.00000	0.0	0.0	0.0
				48.00000	28.00000	40.00000	0.0	0.0	0.0
				49.00000	28.00000	40.00000	0.0	0.0	0.0
				50.00000	28.00000	40.00000	0.0	0.0	0.0
				0.00000	29.00000	40.00000	0.0	0.0	0.0
				1.00000	29.00000	40.00000	0.0	0.0	0.0
				2.00000	29.00000	40.00000	0.0	0.0	0.0
				3.00000	29.00000	40.00000	0.0	0.0	0.0
				4.00000	29.00000	40.00000	0.0	0.0	0.0
				5.00000	29.00000	40.00000	0.0	0.0	0.0
				6.00000	29.00000	40.00000	0.0	0.0	0.0
				7.00000	29.00000	40.00000	0.0	0.0	0.0
				8.00000	29.00000	40.00000	0.0	0.0	0.0
				9.00000	29.00000	40.00000	0.36094	0.029219	0.70972
				10.00000	29.00000	40.00000	0.74283	0.066617	1.0659
				11.00000	29.00000	40.00000	1.1159	0.11215	1.4215
				12.00000	29.00000	40.00000	1.4769	0.16877	1.7762
				13.00000	29.00000	40.00000	1.8209	0.24103	2.1298
				14.00000	29.00000	40.00000	2.1398	0.33635	2.4817
				15.00000	29.00000	40.00000	2.4197	0.46755	2.8309
				16.00000	29.00000	40.00000	2.6342	0.65875	3.1756
				17.00000	29.00000	40.00000	2.7284	0.96022	3.5117
				18.00000	29.00000	40.00000	2.5716	1.4905	3.8290
				19.00000	29.00000	40.00000	1.8271	2.5499	4.0965
				20.00000	29.00000	40.00000	0.0	4.5207	4.2185
				21.00000	29.00000	40.00000	0.0	4.5207	4.2185
				22.00000	29.00000	40.00000	0.0	4.5207	4.2185
				23.00000	29.00000	40.00000	0.0	4.5207	4.2185
				24.00000	29.00000	40.00000	0.0	4.5207	4.2185
				25.00000	29.00000	40.00000	0.0	4.5207	4.2185
				26.00000	29.00000	40.00000	0.0	4.5207	4.2185
				27.00000	29.00000	40.00000	0.0	4.5207	4.2185
				28.00000	29.00000	40.00000	-1.8271	2.5499	4.0965



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by Date
AT 25-Apr-2023
Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				29.00000	29.00000	40.00000	-2.5716	1.4905	3.8290
				30.00000	29.00000	40.00000	-2.7284	0.96022	3.5117
				31.00000	29.00000	40.00000	-2.6342	0.65875	3.1756
				32.00000	29.00000	40.00000	-2.4197	0.46755	2.8309
				33.00000	29.00000	40.00000	-2.1398	0.33635	2.4817
				34.00000	29.00000	40.00000	-1.8209	0.24103	2.1298
				35.00000	29.00000	40.00000	-1.4769	0.16877	1.7762
				36.00000	29.00000	40.00000	-1.1159	0.11215	1.4215
				37.00000	29.00000	40.00000	-0.74283	0.066617	1.0659
				38.00000	29.00000	40.00000	-0.36094	0.029219	0.70972
				39.00000	29.00000	40.00000	0.0	0.0	0.0
				40.00000	29.00000	40.00000	0.0	0.0	0.0
				41.00000	29.00000	40.00000	0.0	0.0	0.0
				42.00000	29.00000	40.00000	0.0	0.0	0.0
				43.00000	29.00000	40.00000	0.0	0.0	0.0
				44.00000	29.00000	40.00000	0.0	0.0	0.0
				45.00000	29.00000	40.00000	0.0	0.0	0.0
				46.00000	29.00000	40.00000	0.0	0.0	0.0
				47.00000	29.00000	40.00000	0.0	0.0	0.0
				48.00000	29.00000	40.00000	0.0	0.0	0.0
				49.00000	29.00000	40.00000	0.0	0.0	0.0
				50.00000	29.00000	40.00000	0.0	0.0	0.0
				0.00000	30.00000	40.00000	0.0	0.0	0.0
				1.00000	30.00000	40.00000	0.0	0.0	0.0
				2.00000	30.00000	40.00000	0.0	0.0	0.0
				3.00000	30.00000	40.00000	0.0	0.0	0.0
				4.00000	30.00000	40.00000	0.0	0.0	0.0
				5.00000	30.00000	40.00000	0.0	0.0	0.0
				6.00000	30.00000	40.00000	0.0	0.0	0.0
				7.00000	30.00000	40.00000	0.0	0.0	0.0
				8.00000	30.00000	40.00000	0.0	0.0	0.0
				9.00000	30.00000	40.00000	0.41347	0.0073038	0.73573
				10.00000	30.00000	40.00000	0.82700	0.016097	1.0945
				11.00000	30.00000	40.00000	1.2385	0.026842	1.4532
				12.00000	30.00000	40.00000	1.6474	0.040270	1.8119
				13.00000	30.00000	40.00000	2.0523	0.057528	2.1705
				14.00000	30.00000	40.00000	2.4513	0.080524	2.5290
				15.00000	30.00000	40.00000	2.8410	0.11269	2.8874
				16.00000	30.00000	40.00000	3.2144	0.16086	3.2455
				17.00000	30.00000	40.00000	3.5553	0.24087	3.6030
				18.00000	30.00000	40.00000	3.8160	0.39958	3.9593
				19.00000	30.00000	40.00000	3.7700	0.85888	4.3104
				20.00000	30.00000	40.00000	0.0	4.9433	4.5775
				21.00000	30.00000	40.00000	0.0	4.9433	4.5775
				22.00000	30.00000	40.00000	0.0	4.9433	4.5775
				23.00000	30.00000	40.00000	0.0	4.9433	4.5775
				24.00000	30.00000	40.00000	0.0	4.9433	4.5775
				25.00000	30.00000	40.00000	0.0	4.9433	4.5775
				26.00000	30.00000	40.00000	0.0	4.9433	4.5775
				27.00000	30.00000	40.00000	0.0	4.9433	4.5775
				28.00000	30.00000	40.00000	-3.7700	0.85888	4.3104
				29.00000	30.00000	40.00000	-3.8160	0.39958	3.9593
				30.00000	30.00000	40.00000	-3.5553	0.24087	3.6030
				31.00000	30.00000	40.00000	-3.2144	0.16086	3.2455
				32.00000	30.00000	40.00000	-2.8410	0.11269	2.8874
				33.00000	30.00000	40.00000	-2.4513	0.080524	2.5290
				34.00000	30.00000	40.00000	-2.0523	0.057528	2.1705
				35.00000	30.00000	40.00000	-1.6474	0.040270	1.8119
				36.00000	30.00000	40.00000	-1.2385	0.026842	1.4532
				37.00000	30.00000	40.00000	-0.82700	0.016097	1.0945
				38.00000	30.00000	40.00000	-0.41347	0.0073038	0.73573
				39.00000	30.00000	40.00000	0.0	0.0	0.0
				40.00000	30.00000	40.00000	0.0	0.0	0.0
				41.00000	30.00000	40.00000	0.0	0.0	0.0
				42.00000	30.00000	40.00000	0.0	0.0	0.0
				43.00000	30.00000	40.00000	0.0	0.0	0.0
				44.00000	30.00000	40.00000	0.0	0.0	0.0
				45.00000	30.00000	40.00000	0.0	0.0	0.0
				46.00000	30.00000	40.00000	0.0	0.0	0.0
				47.00000	30.00000	40.00000	0.0	0.0	0.0
				48.00000	30.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

J23059

Drg. Ref.

Made by AT Date 25-Apr-2023

Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x [m]	y [m]	z [m]	δx [mm]	δy [mm]	δz [mm]
				49.00000	30.00000	40.00000	0.0	0.0	0.0
				50.00000	30.00000	40.00000	0.0	0.0	0.0
				0.00000	31.00000	40.00000	0.0	0.0	0.0
				1.00000	31.00000	40.00000	0.0	0.0	0.0
				2.00000	31.00000	40.00000	0.0	0.0	0.0
				3.00000	31.00000	40.00000	0.0	0.0	0.0
				4.00000	31.00000	40.00000	0.0	0.0	0.0
				5.00000	31.00000	40.00000	0.0	0.0	0.0
				6.00000	31.00000	40.00000	0.0	0.0	0.0
				7.00000	31.00000	40.00000	0.0	0.0	0.0
				8.00000	31.00000	40.00000	0.0	0.0	0.37829
				9.00000	31.00000	40.00000	0.42250	0.0	0.73720
				10.00000	31.00000	40.00000	0.84500	0.0	1.0961
				11.00000	31.00000	40.00000	1.2675	0.0	1.4550
				12.00000	31.00000	40.00000	1.6900	0.0	1.8139
				13.00000	31.00000	40.00000	2.1125	0.0	2.1728
				14.00000	31.00000	40.00000	2.5350	0.0	2.5317
				15.00000	31.00000	40.00000	2.9575	0.0	2.8906
				16.00000	31.00000	40.00000	3.3800	0.0	3.2495
				17.00000	31.00000	40.00000	3.8025	0.0	3.6084
				18.00000	31.00000	40.00000	4.2250	0.0	3.9673
				19.00000	31.00000	40.00000	4.6475	0.0	4.3262
				20.00000	31.00000	40.00000	5.0700	0.0	4.6851
				21.00000	31.00000	40.00000	Point lies	within an	excavation.
				22.00000	31.00000	40.00000	Point lies	within an	excavation.
				23.00000	31.00000	40.00000	Point lies	within an	excavation.
				24.00000	31.00000	40.00000	Point lies	within an	excavation.
				25.00000	31.00000	40.00000	Point lies	within an	excavation.
				26.00000	31.00000	40.00000	Point lies	within an	excavation.
				27.00000	31.00000	40.00000	-5.0700	0.0	4.6851
				28.00000	31.00000	40.00000	-4.6475	0.0	4.3262
				29.00000	31.00000	40.00000	-4.2250	0.0	3.9673
				30.00000	31.00000	40.00000	-3.8025	0.0	3.6084
				31.00000	31.00000	40.00000	-3.3800	0.0	3.2495
				32.00000	31.00000	40.00000	-2.9575	0.0	2.8906
				33.00000	31.00000	40.00000	-2.5350	0.0	2.5317
				34.00000	31.00000	40.00000	-2.1125	0.0	2.1728
				35.00000	31.00000	40.00000	-1.6900	0.0	1.8139
				36.00000	31.00000	40.00000	-1.2675	0.0	1.4550
				37.00000	31.00000	40.00000	-0.84500	0.0	1.0961
				38.00000	31.00000	40.00000	-0.42250	0.0	0.73720
				39.00000	31.00000	40.00000	0.0	0.0	0.37829
				40.00000	31.00000	40.00000	0.0	0.0	0.0
				41.00000	31.00000	40.00000	0.0	0.0	0.0
				42.00000	31.00000	40.00000	0.0	0.0	0.0
				43.00000	31.00000	40.00000	0.0	0.0	0.0
				44.00000	31.00000	40.00000	0.0	0.0	0.0
				45.00000	31.00000	40.00000	0.0	0.0	0.0
				46.00000	31.00000	40.00000	0.0	0.0	0.0
				47.00000	31.00000	40.00000	0.0	0.0	0.0
				48.00000	31.00000	40.00000	0.0	0.0	0.0
				49.00000	31.00000	40.00000	0.0	0.0	0.0
				50.00000	31.00000	40.00000	0.0	0.0	0.0
				0.00000	32.00000	40.00000	0.0	0.0	0.0
				1.00000	32.00000	40.00000	0.0	0.0	0.0
				2.00000	32.00000	40.00000	0.0	0.0	0.0
				3.00000	32.00000	40.00000	0.0	0.0	0.0
				4.00000	32.00000	40.00000	0.0	0.0	0.0
				5.00000	32.00000	40.00000	0.0	0.0	0.0
				6.00000	32.00000	40.00000	0.0	0.0	0.0
				7.00000	32.00000	40.00000	0.0	0.0	0.0
				8.00000	32.00000	40.00000	0.0	0.0	0.37829
				9.00000	32.00000	40.00000	0.42250	0.0	0.73720
				10.00000	32.00000	40.00000	0.84500	0.0	1.0961
				11.00000	32.00000	40.00000	1.2675	0.0	1.4550
				12.00000	32.00000	40.00000	1.6900	0.0	1.8139
				13.00000	32.00000	40.00000	2.1125	0.0	2.1728
				14.00000	32.00000	40.00000	2.5350	0.0	2.5317
				15.00000	32.00000	40.00000	2.9575	0.0	2.8906
				16.00000	32.00000	40.00000	3.3800	0.0	3.2495
				17.00000	32.00000	40.00000	3.8025	0.0	3.6084



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

J23059

Dr. Ref.

Made by AT Date 25-Apr-2023

Checked Date

Stage: Ref.	Stage: Name	Disp: Grid: Ref.	Disp: Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
18.00000	32.00000	40.00000		18.00000	32.00000	40.00000	4.2250	0.0	3.9673
19.00000	32.00000	40.00000		19.00000	32.00000	40.00000	4.6475	0.0	4.3262
20.00000	32.00000	40.00000		20.00000	32.00000	40.00000	5.0700	0.0	4.6851
21.00000	32.00000	40.00000		21.00000	32.00000	40.00000	Point lies within an excavation.		
22.00000	32.00000	40.00000		22.00000	32.00000	40.00000	Point lies within an excavation.		
23.00000	32.00000	40.00000		23.00000	32.00000	40.00000	Point lies within an excavation.		
24.00000	32.00000	40.00000		24.00000	32.00000	40.00000	Point lies within an excavation.		
25.00000	32.00000	40.00000		25.00000	32.00000	40.00000	Point lies within an excavation.		
26.00000	32.00000	40.00000		26.00000	32.00000	40.00000	Point lies within an excavation.		
27.00000	32.00000	40.00000		27.00000	32.00000	40.00000	-5.0700	0.0	4.6851
28.00000	32.00000	40.00000		28.00000	32.00000	40.00000	-4.6475	0.0	4.3262
29.00000	32.00000	40.00000		29.00000	32.00000	40.00000	-4.2250	0.0	3.9673
30.00000	32.00000	40.00000		30.00000	32.00000	40.00000	-3.8025	0.0	3.6084
31.00000	32.00000	40.00000		31.00000	32.00000	40.00000	-3.3800	0.0	3.2495
32.00000	32.00000	40.00000		32.00000	32.00000	40.00000	-2.9575	0.0	2.8906
33.00000	32.00000	40.00000		33.00000	32.00000	40.00000	-2.5350	0.0	2.5317
34.00000	32.00000	40.00000		34.00000	32.00000	40.00000	-2.1125	0.0	2.1728
35.00000	32.00000	40.00000		35.00000	32.00000	40.00000	-1.6900	0.0	1.8139
36.00000	32.00000	40.00000		36.00000	32.00000	40.00000	-1.2675	0.0	1.4550
37.00000	32.00000	40.00000		37.00000	32.00000	40.00000	-0.84500	0.0	1.0961
38.00000	32.00000	40.00000		38.00000	32.00000	40.00000	-0.42250	0.0	0.73720
39.00000	32.00000	40.00000		39.00000	32.00000	40.00000	0.0	0.0	0.37829
40.00000	32.00000	40.00000		40.00000	32.00000	40.00000	0.0	0.0	0.0
41.00000	32.00000	40.00000		41.00000	32.00000	40.00000	0.0	0.0	0.0
42.00000	32.00000	40.00000		42.00000	32.00000	40.00000	0.0	0.0	0.0
43.00000	32.00000	40.00000		43.00000	32.00000	40.00000	0.0	0.0	0.0
44.00000	32.00000	40.00000		44.00000	32.00000	40.00000	0.0	0.0	0.0
45.00000	32.00000	40.00000		45.00000	32.00000	40.00000	0.0	0.0	0.0
46.00000	32.00000	40.00000		46.00000	32.00000	40.00000	0.0	0.0	0.0
47.00000	32.00000	40.00000		47.00000	32.00000	40.00000	0.0	0.0	0.0
48.00000	32.00000	40.00000		48.00000	32.00000	40.00000	0.0	0.0	0.0
49.00000	32.00000	40.00000		49.00000	32.00000	40.00000	0.0	0.0	0.0
50.00000	32.00000	40.00000		50.00000	32.00000	40.00000	0.0	0.0	0.0
0.00000	33.00000	40.00000		0.00000	33.00000	40.00000	0.0	0.0	0.0
1.00000	33.00000	40.00000		1.00000	33.00000	40.00000	0.0	0.0	0.0
2.00000	33.00000	40.00000		2.00000	33.00000	40.00000	0.0	0.0	0.0
3.00000	33.00000	40.00000		3.00000	33.00000	40.00000	0.0	0.0	0.0
4.00000	33.00000	40.00000		4.00000	33.00000	40.00000	0.0	0.0	0.0
5.00000	33.00000	40.00000		5.00000	33.00000	40.00000	0.0	0.0	0.0
6.00000	33.00000	40.00000		6.00000	33.00000	40.00000	0.0	0.0	0.0
7.00000	33.00000	40.00000		7.00000	33.00000	40.00000	0.0	0.0	0.0
8.00000	33.00000	40.00000		8.00000	33.00000	40.00000	0.0	0.0	0.37829
9.00000	33.00000	40.00000		9.00000	33.00000	40.00000	0.42250	0.0	0.73720
10.00000	33.00000	40.00000		10.00000	33.00000	40.00000	0.84500	0.0	1.0961
11.00000	33.00000	40.00000		11.00000	33.00000	40.00000	1.2675	0.0	1.4550
12.00000	33.00000	40.00000		12.00000	33.00000	40.00000	1.6900	0.0	1.8139
13.00000	33.00000	40.00000		13.00000	33.00000	40.00000	2.1125	0.0	2.1728
14.00000	33.00000	40.00000		14.00000	33.00000	40.00000	2.5350	0.0	2.5317
15.00000	33.00000	40.00000		15.00000	33.00000	40.00000	2.9575	0.0	2.8906
16.00000	33.00000	40.00000		16.00000	33.00000	40.00000	3.3800	0.0	3.2495
17.00000	33.00000	40.00000		17.00000	33.00000	40.00000	3.8025	0.0	3.6084
18.00000	33.00000	40.00000		18.00000	33.00000	40.00000	4.2250	0.0	3.9673
19.00000	33.00000	40.00000		19.00000	33.00000	40.00000	4.6475	0.0	4.3262
20.00000	33.00000	40.00000		20.00000	33.00000	40.00000	5.0700	0.0	4.6851
21.00000	33.00000	40.00000		21.00000	33.00000	40.00000	Point lies within an excavation.		
22.00000	33.00000	40.00000		22.00000	33.00000	40.00000	Point lies within an excavation.		
23.00000	33.00000	40.00000		23.00000	33.00000	40.00000	Point lies within an excavation.		
24.00000	33.00000	40.00000		24.00000	33.00000	40.00000	Point lies within an excavation.		
25.00000	33.00000	40.00000		25.00000	33.00000	40.00000	Point lies within an excavation.		
26.00000	33.00000	40.00000		26.00000	33.00000	40.00000	Point lies within an excavation.		
27.00000	33.00000	40.00000		27.00000	33.00000	40.00000	-5.0700	0.0	4.6851
28.00000	33.00000	40.00000		28.00000	33.00000	40.00000	-4.6475	0.0	4.3262
29.00000	33.00000	40.00000		29.00000	33.00000	40.00000	-4.2250	0.0	3.9673
30.00000	33.00000	40.00000		30.00000	33.00000	40.00000	-3.8025	0.0	3.6084
31.00000	33.00000	40.00000		31.00000	33.00000	40.00000	-3.3800	0.0	3.2495
32.00000	33.00000	40.00000		32.00000	33.00000	40.00000	-2.9575	0.0	2.8906
33.00000	33.00000	40.00000		33.00000	33.00000	40.00000	-2.5350	0.0	2.5317
34.00000	33.00000	40.00000		34.00000	33.00000	40.00000	-2.1125	0.0	2.1728
35.00000	33.00000	40.00000		35.00000	33.00000	40.00000	-1.6900	0.0	1.8139
36.00000	33.00000	40.00000		36.00000	33.00000	40.00000	-1.2675	0.0	1.4550
37.00000	33.00000	40.00000		37.00000	33.00000	40.00000	-0.84500	0.0	1.0961



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				38.00000	33.00000	40.00000	-0.42250	0.0	0.73720
				39.00000	33.00000	40.00000	0.0	0.0	0.37829
				40.00000	33.00000	40.00000	0.0	0.0	0.0
				41.00000	33.00000	40.00000	0.0	0.0	0.0
				42.00000	33.00000	40.00000	0.0	0.0	0.0
				43.00000	33.00000	40.00000	0.0	0.0	0.0
				44.00000	33.00000	40.00000	0.0	0.0	0.0
				45.00000	33.00000	40.00000	0.0	0.0	0.0
				46.00000	33.00000	40.00000	0.0	0.0	0.0
				47.00000	33.00000	40.00000	0.0	0.0	0.0
				48.00000	33.00000	40.00000	0.0	0.0	0.0
				49.00000	33.00000	40.00000	0.0	0.0	0.0
				50.00000	33.00000	40.00000	0.0	0.0	0.0
				0.00000	34.00000	40.00000	0.0	0.0	0.0
				1.00000	34.00000	40.00000	0.0	0.0	0.0
				2.00000	34.00000	40.00000	0.0	0.0	0.0
				3.00000	34.00000	40.00000	0.0	0.0	0.0
				4.00000	34.00000	40.00000	0.0	0.0	0.0
				5.00000	34.00000	40.00000	0.0	0.0	0.0
				6.00000	34.00000	40.00000	0.0	0.0	0.0
				7.00000	34.00000	40.00000	0.0	0.0	0.0
				8.00000	34.00000	40.00000	0.0	0.0	0.37829
				9.00000	34.00000	40.00000	0.42250	0.0	0.73720
				10.00000	34.00000	40.00000	0.84500	0.0	1.0961
				11.00000	34.00000	40.00000	1.2675	0.0	1.4550
				12.00000	34.00000	40.00000	1.6900	0.0	1.8139
				13.00000	34.00000	40.00000	2.1125	0.0	2.1728
				14.00000	34.00000	40.00000	2.5350	0.0	2.5317
				15.00000	34.00000	40.00000	2.9575	0.0	2.8906
				16.00000	34.00000	40.00000	3.3800	0.0	3.2495
				17.00000	34.00000	40.00000	3.8025	0.0	3.6084
				18.00000	34.00000	40.00000	4.2250	0.0	3.9673
				19.00000	34.00000	40.00000	4.6475	0.0	4.3262
				20.00000	34.00000	40.00000	5.0700	0.0	4.6851
				21.00000	34.00000	40.00000	Point lies within an excavation.		
				22.00000	34.00000	40.00000	Point lies within an excavation.		
				23.00000	34.00000	40.00000	Point lies within an excavation.		
				24.00000	34.00000	40.00000	Point lies within an excavation.		
				25.00000	34.00000	40.00000	Point lies within an excavation.		
				26.00000	34.00000	40.00000	Point lies within an excavation.		
				27.00000	34.00000	40.00000	-5.0700	0.0	4.6851
				28.00000	34.00000	40.00000	-4.6475	0.0	4.3262
				29.00000	34.00000	40.00000	-4.2250	0.0	3.9673
				30.00000	34.00000	40.00000	-3.8025	0.0	3.6084
				31.00000	34.00000	40.00000	-3.3800	0.0	3.2495
				32.00000	34.00000	40.00000	-2.9575	0.0	2.8906
				33.00000	34.00000	40.00000	-2.5350	0.0	2.5317
				34.00000	34.00000	40.00000	-2.1125	0.0	2.1728
				35.00000	34.00000	40.00000	-1.6900	0.0	1.8139
				36.00000	34.00000	40.00000	-1.2675	0.0	1.4550
				37.00000	34.00000	40.00000	-0.84500	0.0	1.0961
				38.00000	34.00000	40.00000	-0.42250	0.0	0.73720
				39.00000	34.00000	40.00000	0.0	0.0	0.37829
				40.00000	34.00000	40.00000	0.0	0.0	0.0
				41.00000	34.00000	40.00000	0.0	0.0	0.0
				42.00000	34.00000	40.00000	0.0	0.0	0.0
				43.00000	34.00000	40.00000	0.0	0.0	0.0
				44.00000	34.00000	40.00000	0.0	0.0	0.0
				45.00000	34.00000	40.00000	0.0	0.0	0.0
				46.00000	34.00000	40.00000	0.0	0.0	0.0
				47.00000	34.00000	40.00000	0.0	0.0	0.0
				48.00000	34.00000	40.00000	0.0	0.0	0.0
				49.00000	34.00000	40.00000	0.0	0.0	0.0
				50.00000	34.00000	40.00000	0.0	0.0	0.0
				0.00000	35.00000	40.00000	0.0	0.0	0.0
				1.00000	35.00000	40.00000	0.0	0.0	0.0
				2.00000	35.00000	40.00000	0.0	0.0	0.0
				3.00000	35.00000	40.00000	0.0	0.0	0.0
				4.00000	35.00000	40.00000	0.0	0.0	0.0
				5.00000	35.00000	40.00000	0.0	0.0	0.0
				6.00000	35.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

J23059

Drg. Ref.

Made by AT Date 25-Apr-2023

Checked Date

Stage: Ref.	Stage: Name	Disp. Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
7.00000	35.00000	40.00000		7.00000	35.00000	40.00000	0.0	0.0	0.0
8.00000	35.00000	40.00000		8.00000	35.00000	40.00000	0.0	0.0	0.37829
9.00000	35.00000	40.00000		9.00000	35.00000	40.00000	0.42250	0.0	0.73720
10.00000	35.00000	40.00000		10.00000	35.00000	40.00000	0.84500	0.0	1.0961
11.00000	35.00000	40.00000		11.00000	35.00000	40.00000	1.2675	0.0	1.4550
12.00000	35.00000	40.00000		12.00000	35.00000	40.00000	1.6900	0.0	1.8139
13.00000	35.00000	40.00000		13.00000	35.00000	40.00000	2.1125	0.0	2.1728
14.00000	35.00000	40.00000		14.00000	35.00000	40.00000	2.5350	0.0	2.5317
15.00000	35.00000	40.00000		15.00000	35.00000	40.00000	2.9575	0.0	2.8906
16.00000	35.00000	40.00000		16.00000	35.00000	40.00000	3.3800	0.0	3.2495
17.00000	35.00000	40.00000		17.00000	35.00000	40.00000	3.8025	0.0	3.6084
18.00000	35.00000	40.00000		18.00000	35.00000	40.00000	4.2250	0.0	3.9673
19.00000	35.00000	40.00000		19.00000	35.00000	40.00000	4.6475	0.0	4.3262
20.00000	35.00000	40.00000		20.00000	35.00000	40.00000	5.0700	0.0	4.6851
21.00000	35.00000	40.00000		21.00000	35.00000	40.00000			Point lies within an excavation.
22.00000	35.00000	40.00000		22.00000	35.00000	40.00000			Point lies within an excavation.
23.00000	35.00000	40.00000		23.00000	35.00000	40.00000			Point lies within an excavation.
24.00000	35.00000	40.00000		24.00000	35.00000	40.00000			Point lies within an excavation.
25.00000	35.00000	40.00000		25.00000	35.00000	40.00000			Point lies within an excavation.
26.00000	35.00000	40.00000		26.00000	35.00000	40.00000			Point lies within an excavation.
27.00000	35.00000	40.00000		27.00000	35.00000	40.00000	-5.0700	0.0	4.6851
28.00000	35.00000	40.00000		28.00000	35.00000	40.00000	-4.6475	0.0	4.3262
29.00000	35.00000	40.00000		29.00000	35.00000	40.00000	-4.2250	0.0	3.9673
30.00000	35.00000	40.00000		30.00000	35.00000	40.00000	-3.8025	0.0	3.6084
31.00000	35.00000	40.00000		31.00000	35.00000	40.00000	-3.3800	0.0	3.2495
32.00000	35.00000	40.00000		32.00000	35.00000	40.00000	-2.9575	0.0	2.8906
33.00000	35.00000	40.00000		33.00000	35.00000	40.00000	-2.5350	0.0	2.5317
34.00000	35.00000	40.00000		34.00000	35.00000	40.00000	-2.1125	0.0	2.1728
35.00000	35.00000	40.00000		35.00000	35.00000	40.00000	-1.6900	0.0	1.8139
36.00000	35.00000	40.00000		36.00000	35.00000	40.00000	-1.2675	0.0	1.4550
37.00000	35.00000	40.00000		37.00000	35.00000	40.00000	-0.84500	0.0	1.0961
38.00000	35.00000	40.00000		38.00000	35.00000	40.00000	-0.42250	0.0	0.73720
39.00000	35.00000	40.00000		39.00000	35.00000	40.00000	0.0	0.0	0.37829
40.00000	35.00000	40.00000		40.00000	35.00000	40.00000	0.0	0.0	0.0
41.00000	35.00000	40.00000		41.00000	35.00000	40.00000	0.0	0.0	0.0
42.00000	35.00000	40.00000		42.00000	35.00000	40.00000	0.0	0.0	0.0
43.00000	35.00000	40.00000		43.00000	35.00000	40.00000	0.0	0.0	0.0
44.00000	35.00000	40.00000		44.00000	35.00000	40.00000	0.0	0.0	0.0
45.00000	35.00000	40.00000		45.00000	35.00000	40.00000	0.0	0.0	0.0
46.00000	35.00000	40.00000		46.00000	35.00000	40.00000	0.0	0.0	0.0
47.00000	35.00000	40.00000		47.00000	35.00000	40.00000	0.0	0.0	0.0
48.00000	35.00000	40.00000		48.00000	35.00000	40.00000	0.0	0.0	0.0
49.00000	35.00000	40.00000		49.00000	35.00000	40.00000	0.0	0.0	0.0
50.00000	35.00000	40.00000		50.00000	35.00000	40.00000	0.0	0.0	0.0
0.00000	36.00000	40.00000		0.00000	36.00000	40.00000	0.0	0.0	0.0
1.00000	36.00000	40.00000		1.00000	36.00000	40.00000	0.0	0.0	0.0
2.00000	36.00000	40.00000		2.00000	36.00000	40.00000	0.0	0.0	0.0
3.00000	36.00000	40.00000		3.00000	36.00000	40.00000	0.0	0.0	0.0
4.00000	36.00000	40.00000		4.00000	36.00000	40.00000	0.0	0.0	0.0
5.00000	36.00000	40.00000		5.00000	36.00000	40.00000	0.0	0.0	0.0
6.00000	36.00000	40.00000		6.00000	36.00000	40.00000	0.0	0.0	0.0
7.00000	36.00000	40.00000		7.00000	36.00000	40.00000	0.0	0.0	0.0
8.00000	36.00000	40.00000		8.00000	36.00000	40.00000	0.0	0.0	0.37829
9.00000	36.00000	40.00000		9.00000	36.00000	40.00000	0.42250	0.0	0.73720
10.00000	36.00000	40.00000		10.00000	36.00000	40.00000	0.84500	0.0	1.0961
11.00000	36.00000	40.00000		11.00000	36.00000	40.00000	1.2675	0.0	1.4550
12.00000	36.00000	40.00000		12.00000	36.00000	40.00000	1.6900	0.0	1.8139
13.00000	36.00000	40.00000		13.00000	36.00000	40.00000	2.1125	0.0	2.1728
14.00000	36.00000	40.00000		14.00000	36.00000	40.00000	2.5350	0.0	2.5317
15.00000	36.00000	40.00000		15.00000	36.00000	40.00000	2.9575	0.0	2.8906
16.00000	36.00000	40.00000		16.00000	36.00000	40.00000	3.3800	0.0	3.2495
17.00000	36.00000	40.00000		17.00000	36.00000	40.00000	3.8025	0.0	3.6084
18.00000	36.00000	40.00000		18.00000	36.00000	40.00000	4.2250	0.0	3.9673
19.00000	36.00000	40.00000		19.00000	36.00000	40.00000	4.6475	0.0	4.3262
20.00000	36.00000	40.00000		20.00000	36.00000	40.00000	5.0700	0.0	4.6851
21.00000	36.00000	40.00000		21.00000	36.00000	40.00000			Point lies within an excavation.
22.00000	36.00000	40.00000		22.00000	36.00000	40.00000			Point lies within an excavation.
23.00000	36.00000	40.00000		23.00000	36.00000	40.00000			Point lies within an excavation.
24.00000	36.00000	40.00000		24.00000	36.00000	40.00000			Point lies within an excavation.
25.00000	36.00000	40.00000		25.00000	36.00000	40.00000			Point lies within an excavation.
26.00000	36.00000	40.00000		26.00000	36.00000	40.00000			Point lies within an excavation.



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
27.00000	36.00000	40.00000		36.00000	40.00000	40.00000	-5.0700	0.0	4.6851
28.00000	36.00000	40.00000		36.00000	40.00000	40.00000	-4.6475	0.0	4.3262
29.00000	36.00000	40.00000		36.00000	40.00000	40.00000	-4.2250	0.0	3.9673
30.00000	36.00000	40.00000		36.00000	40.00000	40.00000	-3.8025	0.0	3.6084
31.00000	36.00000	40.00000		36.00000	40.00000	40.00000	-3.3800	0.0	3.2495
32.00000	36.00000	40.00000		36.00000	40.00000	40.00000	-2.9575	0.0	2.8906
33.00000	36.00000	40.00000		36.00000	40.00000	40.00000	-2.5350	0.0	2.5317
34.00000	36.00000	40.00000		36.00000	40.00000	40.00000	-2.1125	0.0	2.1728
35.00000	36.00000	40.00000		36.00000	40.00000	40.00000	-1.6900	0.0	1.8139
36.00000	36.00000	40.00000		36.00000	40.00000	40.00000	-1.2675	0.0	1.4550
37.00000	36.00000	40.00000		36.00000	40.00000	40.00000	-0.84500	0.0	1.0961
38.00000	36.00000	40.00000		36.00000	40.00000	40.00000	-0.42250	0.0	0.73720
39.00000	36.00000	40.00000		36.00000	40.00000	40.00000	0.0	0.0	0.37829
40.00000	36.00000	40.00000		36.00000	40.00000	40.00000	0.0	0.0	0.0
41.00000	36.00000	40.00000		36.00000	40.00000	40.00000	0.0	0.0	0.0
42.00000	36.00000	40.00000		36.00000	40.00000	40.00000	0.0	0.0	0.0
43.00000	36.00000	40.00000		36.00000	40.00000	40.00000	0.0	0.0	0.0
44.00000	36.00000	40.00000		36.00000	40.00000	40.00000	0.0	0.0	0.0
45.00000	36.00000	40.00000		36.00000	40.00000	40.00000	0.0	0.0	0.0
46.00000	36.00000	40.00000		36.00000	40.00000	40.00000	0.0	0.0	0.0
47.00000	36.00000	40.00000		36.00000	40.00000	40.00000	0.0	0.0	0.0
48.00000	36.00000	40.00000		36.00000	40.00000	40.00000	0.0	0.0	0.0
49.00000	36.00000	40.00000		36.00000	40.00000	40.00000	0.0	0.0	0.0
50.00000	36.00000	40.00000		36.00000	40.00000	40.00000	0.0	0.0	0.0
0.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
1.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
2.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
3.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
4.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
5.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
6.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
7.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
8.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.37829
9.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.42250	0.0	0.73720
10.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.84500	0.0	1.0961
11.00000	37.00000	40.00000		37.00000	40.00000	40.00000	1.2675	0.0	1.4550
12.00000	37.00000	40.00000		37.00000	40.00000	40.00000	1.6900	0.0	1.8139
13.00000	37.00000	40.00000		37.00000	40.00000	40.00000	2.1125	0.0	2.1728
14.00000	37.00000	40.00000		37.00000	40.00000	40.00000	2.5350	0.0	2.5317
15.00000	37.00000	40.00000		37.00000	40.00000	40.00000	2.9575	0.0	2.8906
16.00000	37.00000	40.00000		37.00000	40.00000	40.00000	3.3800	0.0	3.2495
17.00000	37.00000	40.00000		37.00000	40.00000	40.00000	3.8025	0.0	3.6084
18.00000	37.00000	40.00000		37.00000	40.00000	40.00000	4.2250	0.0	3.9673
19.00000	37.00000	40.00000		37.00000	40.00000	40.00000	4.6475	0.0	4.3262
20.00000	37.00000	40.00000		37.00000	40.00000	40.00000	5.0700	0.0	4.6851
21.00000	37.00000	40.00000		37.00000	40.00000	40.00000			Point lies within an excavation.
22.00000	37.00000	40.00000		37.00000	40.00000	40.00000			Point lies within an excavation.
23.00000	37.00000	40.00000		37.00000	40.00000	40.00000			Point lies within an excavation.
24.00000	37.00000	40.00000		37.00000	40.00000	40.00000			Point lies within an excavation.
25.00000	37.00000	40.00000		37.00000	40.00000	40.00000			Point lies within an excavation.
26.00000	37.00000	40.00000		37.00000	40.00000	40.00000			Point lies within an excavation.
27.00000	37.00000	40.00000		37.00000	40.00000	40.00000	-5.0700	0.0	4.6851
28.00000	37.00000	40.00000		37.00000	40.00000	40.00000	-4.6475	0.0	4.3262
29.00000	37.00000	40.00000		37.00000	40.00000	40.00000	-4.2250	0.0	3.9673
30.00000	37.00000	40.00000		37.00000	40.00000	40.00000	-3.8025	0.0	3.6084
31.00000	37.00000	40.00000		37.00000	40.00000	40.00000	-3.3800	0.0	3.2495
32.00000	37.00000	40.00000		37.00000	40.00000	40.00000	-2.9575	0.0	2.8906
33.00000	37.00000	40.00000		37.00000	40.00000	40.00000	-2.5350	0.0	2.5317
34.00000	37.00000	40.00000		37.00000	40.00000	40.00000	-2.1125	0.0	2.1728
35.00000	37.00000	40.00000		37.00000	40.00000	40.00000	-1.6900	0.0	1.8139
36.00000	37.00000	40.00000		37.00000	40.00000	40.00000	-1.2675	0.0	1.4550
37.00000	37.00000	40.00000		37.00000	40.00000	40.00000	-0.84500	0.0	1.0961
38.00000	37.00000	40.00000		37.00000	40.00000	40.00000	-0.42250	0.0	0.73720
39.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.37829
40.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
41.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
42.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
43.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
44.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
45.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0
46.00000	37.00000	40.00000		37.00000	40.00000	40.00000	0.0	0.0	0.0



70 Lady Margaret Road

GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
47.00000	37.00000	40.00000		47.00000	37.00000	40.00000	0.0	0.0	0.0
48.00000	37.00000	40.00000		48.00000	37.00000	40.00000	0.0	0.0	0.0
49.00000	37.00000	40.00000		49.00000	37.00000	40.00000	0.0	0.0	0.0
50.00000	37.00000	40.00000		50.00000	37.00000	40.00000	0.0	0.0	0.0
0.00000	38.00000	40.00000		0.00000	38.00000	40.00000	0.0	0.0	0.0
1.00000	38.00000	40.00000		1.00000	38.00000	40.00000	0.0	0.0	0.0
2.00000	38.00000	40.00000		2.00000	38.00000	40.00000	0.0	0.0	0.0
3.00000	38.00000	40.00000		3.00000	38.00000	40.00000	0.0	0.0	0.0
4.00000	38.00000	40.00000		4.00000	38.00000	40.00000	0.0	0.0	0.0
5.00000	38.00000	40.00000		5.00000	38.00000	40.00000	0.0	0.0	0.0
6.00000	38.00000	40.00000		6.00000	38.00000	40.00000	0.0	0.0	0.0
7.00000	38.00000	40.00000		7.00000	38.00000	40.00000	0.0	0.0	0.0
8.00000	38.00000	40.00000		8.00000	38.00000	40.00000	0.0	0.0	0.37829
9.00000	38.00000	40.00000		9.00000	38.00000	40.00000	0.42250	0.0	0.73720
10.00000	38.00000	40.00000		10.00000	38.00000	40.00000	0.84500	0.0	1.0961
11.00000	38.00000	40.00000		11.00000	38.00000	40.00000	1.2675	0.0	1.4550
12.00000	38.00000	40.00000		12.00000	38.00000	40.00000	1.6900	0.0	1.8139
13.00000	38.00000	40.00000		13.00000	38.00000	40.00000	2.1125	0.0	2.1728
14.00000	38.00000	40.00000		14.00000	38.00000	40.00000	2.5350	0.0	2.5317
15.00000	38.00000	40.00000		15.00000	38.00000	40.00000	2.9575	0.0	2.8906
16.00000	38.00000	40.00000		16.00000	38.00000	40.00000	3.3800	0.0	3.2495
17.00000	38.00000	40.00000		17.00000	38.00000	40.00000	3.8025	0.0	3.6084
18.00000	38.00000	40.00000		18.00000	38.00000	40.00000	4.2250	0.0	3.9673
19.00000	38.00000	40.00000		19.00000	38.00000	40.00000	4.6475	0.0	4.3262
20.00000	38.00000	40.00000		20.00000	38.00000	40.00000	5.0700	0.0	4.6851
21.00000	38.00000	40.00000		21.00000	38.00000	40.00000	Point lies	within an	excavation.
22.00000	38.00000	40.00000		22.00000	38.00000	40.00000	Point lies	within an	excavation.
23.00000	38.00000	40.00000		23.00000	38.00000	40.00000	Point lies	within an	excavation.
24.00000	38.00000	40.00000		24.00000	38.00000	40.00000	Point lies	within an	excavation.
25.00000	38.00000	40.00000		25.00000	38.00000	40.00000	Point lies	within an	excavation.
26.00000	38.00000	40.00000		26.00000	38.00000	40.00000	Point lies	within an	excavation.
27.00000	38.00000	40.00000		27.00000	38.00000	40.00000	-5.0700	0.0	4.6851
28.00000	38.00000	40.00000		28.00000	38.00000	40.00000	-4.6475	0.0	4.3262
29.00000	38.00000	40.00000		29.00000	38.00000	40.00000	-4.2250	0.0	3.9673
30.00000	38.00000	40.00000		30.00000	38.00000	40.00000	-3.8025	0.0	3.6084
31.00000	38.00000	40.00000		31.00000	38.00000	40.00000	-3.3800	0.0	3.2495
32.00000	38.00000	40.00000		32.00000	38.00000	40.00000	-2.9575	0.0	2.8906
33.00000	38.00000	40.00000		33.00000	38.00000	40.00000	-2.5350	0.0	2.5317
34.00000	38.00000	40.00000		34.00000	38.00000	40.00000	-2.1125	0.0	2.1728
35.00000	38.00000	40.00000		35.00000	38.00000	40.00000	-1.6900	0.0	1.8139
36.00000	38.00000	40.00000		36.00000	38.00000	40.00000	-1.2675	0.0	1.4550
37.00000	38.00000	40.00000		37.00000	38.00000	40.00000	-0.84500	0.0	1.0961
38.00000	38.00000	40.00000		38.00000	38.00000	40.00000	-0.42250	0.0	0.73720
39.00000	38.00000	40.00000		39.00000	38.00000	40.00000	0.0	0.0	0.37829
40.00000	38.00000	40.00000		40.00000	38.00000	40.00000	0.0	0.0	0.0
41.00000	38.00000	40.00000		41.00000	38.00000	40.00000	0.0	0.0	0.0
42.00000	38.00000	40.00000		42.00000	38.00000	40.00000	0.0	0.0	0.0
43.00000	38.00000	40.00000		43.00000	38.00000	40.00000	0.0	0.0	0.0
44.00000	38.00000	40.00000		44.00000	38.00000	40.00000	0.0	0.0	0.0
45.00000	38.00000	40.00000		45.00000	38.00000	40.00000	0.0	0.0	0.0
46.00000	38.00000	40.00000		46.00000	38.00000	40.00000	0.0	0.0	0.0
47.00000	38.00000	40.00000		47.00000	38.00000	40.00000	0.0	0.0	0.0
48.00000	38.00000	40.00000		48.00000	38.00000	40.00000	0.0	0.0	0.0
49.00000	38.00000	40.00000		49.00000	38.00000	40.00000	0.0	0.0	0.0
50.00000	38.00000	40.00000		50.00000	38.00000	40.00000	0.0	0.0	0.0
0.00000	39.00000	40.00000		0.00000	39.00000	40.00000	0.0	0.0	0.0
1.00000	39.00000	40.00000		1.00000	39.00000	40.00000	0.0	0.0	0.0
2.00000	39.00000	40.00000		2.00000	39.00000	40.00000	0.0	0.0	0.0
3.00000	39.00000	40.00000		3.00000	39.00000	40.00000	0.0	0.0	0.0
4.00000	39.00000	40.00000		4.00000	39.00000	40.00000	0.0	0.0	0.0
5.00000	39.00000	40.00000		5.00000	39.00000	40.00000	0.0	0.0	0.0
6.00000	39.00000	40.00000		6.00000	39.00000	40.00000	0.0	0.0	0.0
7.00000	39.00000	40.00000		7.00000	39.00000	40.00000	0.0	0.0	0.0
8.00000	39.00000	40.00000		8.00000	39.00000	40.00000	0.0	0.0	0.37829
9.00000	39.00000	40.00000		9.00000	39.00000	40.00000	0.42250	0.0	0.73720
10.00000	39.00000	40.00000		10.00000	39.00000	40.00000	0.84500	0.0	1.0961
11.00000	39.00000	40.00000		11.00000	39.00000	40.00000	1.2675	0.0	1.4550
12.00000	39.00000	40.00000		12.00000	39.00000	40.00000	1.6900	0.0	1.8139
13.00000	39.00000	40.00000		13.00000	39.00000	40.00000	2.1125	0.0	2.1728
14.00000	39.00000	40.00000		14.00000	39.00000	40.00000	2.5350	0.0	2.5317
15.00000	39.00000	40.00000		15.00000	39.00000	40.00000	2.9575	0.0	2.8906



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp: Grid: Ref.	Disp: Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
16.00000	39.00000	40.00000		16.00000	39.00000	40.00000	3.3800	0.0	3.2495
17.00000	39.00000	40.00000		17.00000	39.00000	40.00000	3.8025	0.0	3.6084
18.00000	39.00000	40.00000		18.00000	39.00000	40.00000	4.2250	0.0	3.9673
19.00000	39.00000	40.00000		19.00000	39.00000	40.00000	4.6475	0.0	4.3262
20.00000	39.00000	40.00000		20.00000	39.00000	40.00000	5.0700	0.0	4.6851
21.00000	39.00000	40.00000		21.00000	39.00000	40.00000	Point lies within an excavation.		
22.00000	39.00000	40.00000		22.00000	39.00000	40.00000	Point lies within an excavation.		
23.00000	39.00000	40.00000		23.00000	39.00000	40.00000	Point lies within an excavation.		
24.00000	39.00000	40.00000		24.00000	39.00000	40.00000	Point lies within an excavation.		
25.00000	39.00000	40.00000		25.00000	39.00000	40.00000	Point lies within an excavation.		
26.00000	39.00000	40.00000		26.00000	39.00000	40.00000	Point lies within an excavation.		
27.00000	39.00000	40.00000		27.00000	39.00000	40.00000	-5.0700	0.0	4.6851
28.00000	39.00000	40.00000		28.00000	39.00000	40.00000	-4.6475	0.0	4.3262
29.00000	39.00000	40.00000		29.00000	39.00000	40.00000	-4.2250	0.0	3.9673
30.00000	39.00000	40.00000		30.00000	39.00000	40.00000	-3.8025	0.0	3.6084
31.00000	39.00000	40.00000		31.00000	39.00000	40.00000	-3.3800	0.0	3.2495
32.00000	39.00000	40.00000		32.00000	39.00000	40.00000	-2.9575	0.0	2.8906
33.00000	39.00000	40.00000		33.00000	39.00000	40.00000	-2.5350	0.0	2.5317
34.00000	39.00000	40.00000		34.00000	39.00000	40.00000	-2.1125	0.0	2.1728
35.00000	39.00000	40.00000		35.00000	39.00000	40.00000	-1.6900	0.0	1.8139
36.00000	39.00000	40.00000		36.00000	39.00000	40.00000	-1.2675	0.0	1.4550
37.00000	39.00000	40.00000		37.00000	39.00000	40.00000	-0.84500	0.0	1.0961
38.00000	39.00000	40.00000		38.00000	39.00000	40.00000	-0.42250	0.0	0.73720
39.00000	39.00000	40.00000		39.00000	39.00000	40.00000	0.0	0.0	0.37829
40.00000	39.00000	40.00000		40.00000	39.00000	40.00000	0.0	0.0	0.0
41.00000	39.00000	40.00000		41.00000	39.00000	40.00000	0.0	0.0	0.0
42.00000	39.00000	40.00000		42.00000	39.00000	40.00000	0.0	0.0	0.0
43.00000	39.00000	40.00000		43.00000	39.00000	40.00000	0.0	0.0	0.0
44.00000	39.00000	40.00000		44.00000	39.00000	40.00000	0.0	0.0	0.0
45.00000	39.00000	40.00000		45.00000	39.00000	40.00000	0.0	0.0	0.0
46.00000	39.00000	40.00000		46.00000	39.00000	40.00000	0.0	0.0	0.0
47.00000	39.00000	40.00000		47.00000	39.00000	40.00000	0.0	0.0	0.0
48.00000	39.00000	40.00000		48.00000	39.00000	40.00000	0.0	0.0	0.0
49.00000	39.00000	40.00000		49.00000	39.00000	40.00000	0.0	0.0	0.0
50.00000	39.00000	40.00000		50.00000	39.00000	40.00000	0.0	0.0	0.0
0.00000	40.00000	40.00000		0.00000	40.00000	40.00000	0.0	0.0	0.0
1.00000	40.00000	40.00000		1.00000	40.00000	40.00000	0.0	0.0	0.0
2.00000	40.00000	40.00000		2.00000	40.00000	40.00000	0.0	0.0	0.0
3.00000	40.00000	40.00000		3.00000	40.00000	40.00000	0.0	0.0	0.0
4.00000	40.00000	40.00000		4.00000	40.00000	40.00000	0.0	0.0	0.0
5.00000	40.00000	40.00000		5.00000	40.00000	40.00000	0.0	0.0	0.0
6.00000	40.00000	40.00000		6.00000	40.00000	40.00000	0.0	0.0	0.0
7.00000	40.00000	40.00000		7.00000	40.00000	40.00000	0.0	0.0	0.0
8.00000	40.00000	40.00000		8.00000	40.00000	40.00000	0.0	0.0	0.37829
9.00000	40.00000	40.00000		9.00000	40.00000	40.00000	0.42250	0.0	0.73720
10.00000	40.00000	40.00000		10.00000	40.00000	40.00000	0.84500	0.0	1.0961
11.00000	40.00000	40.00000		11.00000	40.00000	40.00000	1.2675	0.0	1.4550
12.00000	40.00000	40.00000		12.00000	40.00000	40.00000	1.6900	0.0	1.8139
13.00000	40.00000	40.00000		13.00000	40.00000	40.00000	2.1125	0.0	2.1728
14.00000	40.00000	40.00000		14.00000	40.00000	40.00000	2.5350	0.0	2.5317
15.00000	40.00000	40.00000		15.00000	40.00000	40.00000	2.9575	0.0	2.8906
16.00000	40.00000	40.00000		16.00000	40.00000	40.00000	3.3800	0.0	3.2495
17.00000	40.00000	40.00000		17.00000	40.00000	40.00000	3.8025	0.0	3.6084
18.00000	40.00000	40.00000		18.00000	40.00000	40.00000	4.2250	0.0	3.9673
19.00000	40.00000	40.00000		19.00000	40.00000	40.00000	4.6475	0.0	4.3262
20.00000	40.00000	40.00000		20.00000	40.00000	40.00000	5.0700	0.0	4.6851
21.00000	40.00000	40.00000		21.00000	40.00000	40.00000	Point lies within an excavation.		
22.00000	40.00000	40.00000		22.00000	40.00000	40.00000	Point lies within an excavation.		
23.00000	40.00000	40.00000		23.00000	40.00000	40.00000	Point lies within an excavation.		
24.00000	40.00000	40.00000		24.00000	40.00000	40.00000	Point lies within an excavation.		
25.00000	40.00000	40.00000		25.00000	40.00000	40.00000	Point lies within an excavation.		
26.00000	40.00000	40.00000		26.00000	40.00000	40.00000	Point lies within an excavation.		
27.00000	40.00000	40.00000		27.00000	40.00000	40.00000	-5.0700	0.0	4.6851
28.00000	40.00000	40.00000		28.00000	40.00000	40.00000	-4.6475	0.0	4.3262
29.00000	40.00000	40.00000		29.00000	40.00000	40.00000	-4.2250	0.0	3.9673
30.00000	40.00000	40.00000		30.00000	40.00000	40.00000	-3.8025	0.0	3.6084
31.00000	40.00000	40.00000		31.00000	40.00000	40.00000	-3.3800	0.0	3.2495
32.00000	40.00000	40.00000		32.00000	40.00000	40.00000	-2.9575	0.0	2.8906
33.00000	40.00000	40.00000		33.00000	40.00000	40.00000	-2.5350	0.0	2.5317
34.00000	40.00000	40.00000		34.00000	40.00000	40.00000	-2.1125	0.0	2.1728
35.00000	40.00000	40.00000		35.00000	40.00000	40.00000	-1.6900	0.0	1.8139



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

J23059

Drg. Ref.

Made by AT Date 25-Apr-2023

Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				36.00000	40.00000	40.00000	-1.2675	0.0	1.4550
				37.00000	40.00000	40.00000	-0.84500	0.0	1.0961
				38.00000	40.00000	40.00000	-0.42250	0.0	0.73720
				39.00000	40.00000	40.00000	0.0	0.0	0.37829
				40.00000	40.00000	40.00000	0.0	0.0	0.0
				41.00000	40.00000	40.00000	0.0	0.0	0.0
				42.00000	40.00000	40.00000	0.0	0.0	0.0
				43.00000	40.00000	40.00000	0.0	0.0	0.0
				44.00000	40.00000	40.00000	0.0	0.0	0.0
				45.00000	40.00000	40.00000	0.0	0.0	0.0
				46.00000	40.00000	40.00000	0.0	0.0	0.0
				47.00000	40.00000	40.00000	0.0	0.0	0.0
				48.00000	40.00000	40.00000	0.0	0.0	0.0
				49.00000	40.00000	40.00000	0.0	0.0	0.0
				50.00000	40.00000	40.00000	0.0	0.0	0.0
				0.00000	41.00000	40.00000	0.0	0.0	0.0
				1.00000	41.00000	40.00000	0.0	0.0	0.0
				2.00000	41.00000	40.00000	0.0	0.0	0.0
				3.00000	41.00000	40.00000	0.0	0.0	0.0
				4.00000	41.00000	40.00000	0.0	0.0	0.0
				5.00000	41.00000	40.00000	0.0	0.0	0.0
				6.00000	41.00000	40.00000	0.0	0.0	0.0
				7.00000	41.00000	40.00000	0.0	0.0	0.0
				8.00000	41.00000	40.00000	0.0	0.0	0.0
				9.00000	41.00000	40.00000	0.39127	-0.018960	0.72677
				10.00000	41.00000	40.00000	0.78924	-0.042258	1.0846
				11.00000	41.00000	40.00000	1.1818	-0.070692	1.4423
				12.00000	41.00000	40.00000	1.5670	-0.10616	1.7996
				13.00000	41.00000	40.00000	1.9416	-0.15164	2.1565
				14.00000	41.00000	40.00000	2.3005	-0.21202	2.5127
				15.00000	41.00000	40.00000	2.6346	-0.29600	2.8678
				16.00000	41.00000	40.00000	2.9260	-0.42054	3.2211
				17.00000	41.00000	40.00000	3.1347	-0.62350	3.5708
				18.00000	41.00000	40.00000	3.1522	-1.0077	3.9120
				19.00000	41.00000	40.00000	2.5835	-1.9454	4.2255
				20.00000	41.00000	40.00000	0.0	-4.7320	4.3980
				21.00000	41.00000	40.00000	0.0	-4.7320	4.3980
				22.00000	41.00000	40.00000	0.0	-4.7320	4.3980
				23.00000	41.00000	40.00000	0.0	-4.7320	4.3980
				24.00000	41.00000	40.00000	0.0	-4.7320	4.3980
				25.00000	41.00000	40.00000	0.0	-4.7320	4.3980
				26.00000	41.00000	40.00000	0.0	-4.7320	4.3980
				27.00000	41.00000	40.00000	0.0	-4.7320	4.3980
				28.00000	41.00000	40.00000	-2.5835	-1.9454	4.2255
				29.00000	41.00000	40.00000	-3.1522	-1.0077	3.9120
				30.00000	41.00000	40.00000	-3.1347	-0.62350	3.5708
				31.00000	41.00000	40.00000	-2.9260	-0.42054	3.2211
				32.00000	41.00000	40.00000	-2.6346	-0.29600	2.8678
				33.00000	41.00000	40.00000	-2.3005	-0.21202	2.5127
				34.00000	41.00000	40.00000	-1.9416	-0.15164	2.1565
				35.00000	41.00000	40.00000	-1.5670	-0.10616	1.7996
				36.00000	41.00000	40.00000	-1.1818	-0.070692	1.4423
				37.00000	41.00000	40.00000	-0.78924	-0.042258	1.0846
				38.00000	41.00000	40.00000	-0.39127	-0.018960	0.72677
				39.00000	41.00000	40.00000	0.0	0.0	0.0
				40.00000	41.00000	40.00000	0.0	0.0	0.0
				41.00000	41.00000	40.00000	0.0	0.0	0.0
				42.00000	41.00000	40.00000	0.0	0.0	0.0
				43.00000	41.00000	40.00000	0.0	0.0	0.0
				44.00000	41.00000	40.00000	0.0	0.0	0.0
				45.00000	41.00000	40.00000	0.0	0.0	0.0
				46.00000	41.00000	40.00000	0.0	0.0	0.0
				47.00000	41.00000	40.00000	0.0	0.0	0.0
				48.00000	41.00000	40.00000	0.0	0.0	0.0
				49.00000	41.00000	40.00000	0.0	0.0	0.0
				50.00000	41.00000	40.00000	0.0	0.0	0.0
				0.00000	42.00000	40.00000	0.0	0.0	0.0
				1.00000	42.00000	40.00000	0.0	0.0	0.0
				2.00000	42.00000	40.00000	0.0	0.0	0.0
				3.00000	42.00000	40.00000	0.0	0.0	0.0
				4.00000	42.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No.	Sheet No.	Rev.
D J23059		
Drg. Ref.		
Made by AT	Date 25-Apr-2023	Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
5.00000	42.00000	40.00000		5.00000	42.00000	40.00000	0.0	0.0	0.0
6.00000	42.00000	40.00000		6.00000	42.00000	40.00000	0.0	0.0	0.0
7.00000	42.00000	40.00000		7.00000	42.00000	40.00000	0.0	0.0	0.0
8.00000	42.00000	40.00000		8.00000	42.00000	40.00000	0.0	0.0	0.0
9.00000	42.00000	40.00000		9.00000	42.00000	40.00000	0.32344	-0.037244	0.68469
10.00000	42.00000	40.00000		10.00000	42.00000	40.00000	0.68899	-0.088106	1.0384
11.00000	42.00000	40.00000		11.00000	42.00000	40.00000	1.0424	-0.14982	1.3910
12.00000	42.00000	40.00000		12.00000	42.00000	40.00000	1.3793	-0.22620	1.7421
13.00000	42.00000	40.00000		13.00000	42.00000	40.00000	1.6932	-0.32307	2.0911
14.00000	42.00000	40.00000		14.00000	42.00000	40.00000	1.9737	-0.44965	2.4369
15.00000	42.00000	40.00000		15.00000	42.00000	40.00000	2.2034	-0.62142	2.7779
16.00000	42.00000	40.00000		16.00000	42.00000	40.00000	2.3508	-0.86595	3.1109
17.00000	42.00000	40.00000		17.00000	42.00000	40.00000	2.3561	-1.2357	3.4295
18.00000	42.00000	40.00000		18.00000	42.00000	40.00000	2.0982	-1.8349	3.7194
19.00000	42.00000	40.00000		19.00000	42.00000	40.00000	1.3559	-2.8441	3.9461
20.00000	42.00000	40.00000		20.00000	42.00000	40.00000	0.0	-4.3095	4.0391
21.00000	42.00000	40.00000		21.00000	42.00000	40.00000	0.0	-4.3095	4.0391
22.00000	42.00000	40.00000		22.00000	42.00000	40.00000	0.0	-4.3095	4.0391
23.00000	42.00000	40.00000		23.00000	42.00000	40.00000	0.0	-4.3095	4.0391
24.00000	42.00000	40.00000		24.00000	42.00000	40.00000	0.0	-4.3095	4.0391
25.00000	42.00000	40.00000		25.00000	42.00000	40.00000	0.0	-4.3095	4.0391
26.00000	42.00000	40.00000		26.00000	42.00000	40.00000	0.0	-4.3095	4.0391
27.00000	42.00000	40.00000		27.00000	42.00000	40.00000	0.0	-4.3095	4.0391
28.00000	42.00000	40.00000		28.00000	42.00000	40.00000	-1.3559	-2.8441	3.9461
29.00000	42.00000	40.00000		29.00000	42.00000	40.00000	-2.0982	-1.8349	3.7194
30.00000	42.00000	40.00000		30.00000	42.00000	40.00000	-2.3561	-1.2357	3.4295
31.00000	42.00000	40.00000		31.00000	42.00000	40.00000	-2.3508	-0.86595	3.1109
32.00000	42.00000	40.00000		32.00000	42.00000	40.00000	-2.2034	-0.62142	2.7779
33.00000	42.00000	40.00000		33.00000	42.00000	40.00000	-1.9737	-0.44965	2.4369
34.00000	42.00000	40.00000		34.00000	42.00000	40.00000	-1.6932	-0.32307	2.0911
35.00000	42.00000	40.00000		35.00000	42.00000	40.00000	-1.3793	-0.22620	1.7421
36.00000	42.00000	40.00000		36.00000	42.00000	40.00000	-1.0424	-0.14982	1.3910
37.00000	42.00000	40.00000		37.00000	42.00000	40.00000	-0.68899	-0.088106	1.0384
38.00000	42.00000	40.00000		38.00000	42.00000	40.00000	-0.32344	-0.037244	0.68469
39.00000	42.00000	40.00000		39.00000	42.00000	40.00000	0.0	0.0	0.0
40.00000	42.00000	40.00000		40.00000	42.00000	40.00000	0.0	0.0	0.0
41.00000	42.00000	40.00000		41.00000	42.00000	40.00000	0.0	0.0	0.0
42.00000	42.00000	40.00000		42.00000	42.00000	40.00000	0.0	0.0	0.0
43.00000	42.00000	40.00000		43.00000	42.00000	40.00000	0.0	0.0	0.0
44.00000	42.00000	40.00000		44.00000	42.00000	40.00000	0.0	0.0	0.0
45.00000	42.00000	40.00000		45.00000	42.00000	40.00000	0.0	0.0	0.0
46.00000	42.00000	40.00000		46.00000	42.00000	40.00000	0.0	0.0	0.0
47.00000	42.00000	40.00000		47.00000	42.00000	40.00000	0.0	0.0	0.0
48.00000	42.00000	40.00000		48.00000	42.00000	40.00000	0.0	0.0	0.0
49.00000	42.00000	40.00000		49.00000	42.00000	40.00000	0.0	0.0	0.0
50.00000	42.00000	40.00000		50.00000	42.00000	40.00000	0.0	0.0	0.0
0.00000	43.00000	40.00000		0.00000	43.00000	40.00000	0.0	0.0	0.0
1.00000	43.00000	40.00000		1.00000	43.00000	40.00000	0.0	0.0	0.0
2.00000	43.00000	40.00000		2.00000	43.00000	40.00000	0.0	0.0	0.0
3.00000	43.00000	40.00000		3.00000	43.00000	40.00000	0.0	0.0	0.0
4.00000	43.00000	40.00000		4.00000	43.00000	40.00000	0.0	0.0	0.0
5.00000	43.00000	40.00000		5.00000	43.00000	40.00000	0.0	0.0	0.0
6.00000	43.00000	40.00000		6.00000	43.00000	40.00000	0.0	0.0	0.0
7.00000	43.00000	40.00000		7.00000	43.00000	40.00000	0.0	0.0	0.0
8.00000	43.00000	40.00000		8.00000	43.00000	40.00000	0.0	0.0	0.0
9.00000	43.00000	40.00000		9.00000	43.00000	40.00000	0.23077	-0.043525	0.61130
10.00000	43.00000	40.00000		10.00000	43.00000	40.00000	0.56388	-0.11862	0.95806
11.00000	43.00000	40.00000		11.00000	43.00000	40.00000	0.87887	-0.20886	1.3023
12.00000	43.00000	40.00000		12.00000	43.00000	40.00000	1.1698	-0.31913	1.6431
13.00000	43.00000	40.00000		13.00000	43.00000	40.00000	1.4281	-0.45654	1.9793
14.00000	43.00000	40.00000		14.00000	43.00000	40.00000	1.6409	-0.63169	2.3088
15.00000	43.00000	40.00000		15.00000	43.00000	40.00000	1.7880	-0.86083	2.6284
16.00000	43.00000	40.00000		16.00000	43.00000	40.00000	1.8379	-1.1692	2.9327
17.00000	43.00000	40.00000		17.00000	43.00000	40.00000	1.7413	-1.5949	3.2123
18.00000	43.00000	40.00000		18.00000	43.00000	40.00000	1.4279	-2.1883	3.4502
19.00000	43.00000	40.00000		19.00000	43.00000	40.00000	0.83285	-2.9810	3.6180
20.00000	43.00000	40.00000		20.00000	43.00000	40.00000	0.0	-3.8870	3.6802
21.00000	43.00000	40.00000		21.00000	43.00000	40.00000	0.0	-3.8870	3.6802
22.00000	43.00000	40.00000		22.00000	43.00000	40.00000	0.0	-3.8870	3.6802
23.00000	43.00000	40.00000		23.00000	43.00000	40.00000	0.0	-3.8870	3.6802
24.00000	43.00000	40.00000		24.00000	43.00000	40.00000	0.0	-3.8870	3.6802



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GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp: Grid: Ref.	Disp: Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
25.00000	43.00000	40.00000		25.00000	43.00000	40.00000	0.0	-3.8870	3.6802
26.00000	43.00000	40.00000		26.00000	43.00000	40.00000	0.0	-3.8870	3.6802
27.00000	43.00000	40.00000		27.00000	43.00000	40.00000	0.0	-3.8870	3.6802
28.00000	43.00000	40.00000		28.00000	43.00000	40.00000	-0.83285	-2.9810	3.6180
29.00000	43.00000	40.00000		29.00000	43.00000	40.00000	-1.4279	-2.1883	3.4502
30.00000	43.00000	40.00000		30.00000	43.00000	40.00000	-1.7413	-1.5949	3.2123
31.00000	43.00000	40.00000		31.00000	43.00000	40.00000	-1.8379	-1.1692	2.9327
32.00000	43.00000	40.00000		32.00000	43.00000	40.00000	-1.7880	-0.86083	2.6284
33.00000	43.00000	40.00000		33.00000	43.00000	40.00000	-1.6409	-0.63169	2.3088
34.00000	43.00000	40.00000		34.00000	43.00000	40.00000	-1.4281	-0.45654	1.9793
35.00000	43.00000	40.00000		35.00000	43.00000	40.00000	-1.1698	-0.31913	1.6431
36.00000	43.00000	40.00000		36.00000	43.00000	40.00000	-0.87887	-0.20886	1.3023
37.00000	43.00000	40.00000		37.00000	43.00000	40.00000	-0.56388	-0.11862	0.95806
38.00000	43.00000	40.00000		38.00000	43.00000	40.00000	-0.23077	-0.043525	0.61130
39.00000	43.00000	40.00000		39.00000	43.00000	40.00000	0.0	0.0	0.0
40.00000	43.00000	40.00000		40.00000	43.00000	40.00000	0.0	0.0	0.0
41.00000	43.00000	40.00000		41.00000	43.00000	40.00000	0.0	0.0	0.0
42.00000	43.00000	40.00000		42.00000	43.00000	40.00000	0.0	0.0	0.0
43.00000	43.00000	40.00000		43.00000	43.00000	40.00000	0.0	0.0	0.0
44.00000	43.00000	40.00000		44.00000	43.00000	40.00000	0.0	0.0	0.0
45.00000	43.00000	40.00000		45.00000	43.00000	40.00000	0.0	0.0	0.0
46.00000	43.00000	40.00000		46.00000	43.00000	40.00000	0.0	0.0	0.0
47.00000	43.00000	40.00000		47.00000	43.00000	40.00000	0.0	0.0	0.0
48.00000	43.00000	40.00000		48.00000	43.00000	40.00000	0.0	0.0	0.0
49.00000	43.00000	40.00000		49.00000	43.00000	40.00000	0.0	0.0	0.0
50.00000	43.00000	40.00000		50.00000	43.00000	40.00000	0.0	0.0	0.0
0.00000	44.00000	40.00000		0.00000	44.00000	40.00000	0.0	0.0	0.0
1.00000	44.00000	40.00000		1.00000	44.00000	40.00000	0.0	0.0	0.0
2.00000	44.00000	40.00000		2.00000	44.00000	40.00000	0.0	0.0	0.0
3.00000	44.00000	40.00000		3.00000	44.00000	40.00000	0.0	0.0	0.0
4.00000	44.00000	40.00000		4.00000	44.00000	40.00000	0.0	0.0	0.0
5.00000	44.00000	40.00000		5.00000	44.00000	40.00000	0.0	0.0	0.0
6.00000	44.00000	40.00000		6.00000	44.00000	40.00000	0.0	0.0	0.0
7.00000	44.00000	40.00000		7.00000	44.00000	40.00000	0.0	0.0	0.0
8.00000	44.00000	40.00000		8.00000	44.00000	40.00000	0.0	0.0	0.0
9.00000	44.00000	40.00000		9.00000	44.00000	40.00000	0.12060	-0.032398	0.50826
10.00000	44.00000	40.00000		10.00000	44.00000	40.00000	0.42303	-0.12721	0.84570
11.00000	44.00000	40.00000		11.00000	44.00000	40.00000	0.70275	-0.23970	1.1789
12.00000	44.00000	40.00000		12.00000	44.00000	40.00000	0.95315	-0.37493	1.5065
13.00000	44.00000	40.00000		13.00000	44.00000	40.00000	1.1650	-0.53978	1.8265
14.00000	44.00000	40.00000		14.00000	44.00000	40.00000	1.3256	-0.74376	2.1362
15.00000	44.00000	40.00000		15.00000	44.00000	40.00000	1.4168	-0.99982	2.4312
16.00000	44.00000	40.00000		16.00000	44.00000	40.00000	1.4142	-1.3248	2.7050
17.00000	44.00000	40.00000		17.00000	44.00000	40.00000	1.2868	-1.7377	2.9475
18.00000	44.00000	40.00000		18.00000	44.00000	40.00000	1.0042	-2.2516	3.1439
19.00000	44.00000	40.00000		19.00000	44.00000	40.00000	0.55859	-2.8512	3.2749
20.00000	44.00000	40.00000		20.00000	44.00000	40.00000	0.0	-3.4645	3.3213
21.00000	44.00000	40.00000		21.00000	44.00000	40.00000	0.0	-3.4645	3.3213
22.00000	44.00000	40.00000		22.00000	44.00000	40.00000	0.0	-3.4645	3.3213
23.00000	44.00000	40.00000		23.00000	44.00000	40.00000	0.0	-3.4645	3.3213
24.00000	44.00000	40.00000		24.00000	44.00000	40.00000	0.0	-3.4645	3.3213
25.00000	44.00000	40.00000		25.00000	44.00000	40.00000	0.0	-3.4645	3.3213
26.00000	44.00000	40.00000		26.00000	44.00000	40.00000	0.0	-3.4645	3.3213
27.00000	44.00000	40.00000		27.00000	44.00000	40.00000	0.0	-3.4645	3.3213
28.00000	44.00000	40.00000		28.00000	44.00000	40.00000	-0.55859	-2.8512	3.2749
29.00000	44.00000	40.00000		29.00000	44.00000	40.00000	-1.0042	-2.2516	3.1439
30.00000	44.00000	40.00000		30.00000	44.00000	40.00000	-1.2868	-1.7377	2.9475
31.00000	44.00000	40.00000		31.00000	44.00000	40.00000	-1.4142	-1.3248	2.7050
32.00000	44.00000	40.00000		32.00000	44.00000	40.00000	-1.4168	-0.99982	2.4312
33.00000	44.00000	40.00000		33.00000	44.00000	40.00000	-1.3256	-0.74376	2.1362
34.00000	44.00000	40.00000		34.00000	44.00000	40.00000	-1.1650	-0.53978	1.8265
35.00000	44.00000	40.00000		35.00000	44.00000	40.00000	-0.95315	-0.37493	1.5065
36.00000	44.00000	40.00000		36.00000	44.00000	40.00000	-0.70275	-0.23970	1.1789
37.00000	44.00000	40.00000		37.00000	44.00000	40.00000	-0.42303	-0.12721	0.84570
38.00000	44.00000	40.00000		38.00000	44.00000	40.00000	-0.12060	-0.032398	0.50826
39.00000	44.00000	40.00000		39.00000	44.00000	40.00000	0.0	0.0	0.0
40.00000	44.00000	40.00000		40.00000	44.00000	40.00000	0.0	0.0	0.0
41.00000	44.00000	40.00000		41.00000	44.00000	40.00000	0.0	0.0	0.0
42.00000	44.00000	40.00000		42.00000	44.00000	40.00000	0.0	0.0	0.0
43.00000	44.00000	40.00000		43.00000	44.00000	40.00000	0.0	0.0	0.0
44.00000	44.00000	40.00000		44.00000	44.00000	40.00000	0.0	0.0	0.0



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

70 Lady Margaret Road

Job No. Sheet No. Rev.

J23059

Drg. Ref.

Made by AT Date 25-Apr-2023

Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
45.00000		44.00000	40.00000	45.00000	44.00000	40.00000	0.0	0.0	0.0
46.00000		44.00000	40.00000	46.00000	44.00000	40.00000	0.0	0.0	0.0
47.00000		44.00000	40.00000	47.00000	44.00000	40.00000	0.0	0.0	0.0
48.00000		44.00000	40.00000	48.00000	44.00000	40.00000	0.0	0.0	0.0
49.00000		44.00000	40.00000	49.00000	44.00000	40.00000	0.0	0.0	0.0
50.00000		44.00000	40.00000	50.00000	44.00000	40.00000	0.0	0.0	0.0
0.00000		45.00000	40.00000	0.00000	45.00000	40.00000	0.0	0.0	0.0
1.00000		45.00000	40.00000	1.00000	45.00000	40.00000	0.0	0.0	0.0
2.00000		45.00000	40.00000	2.00000	45.00000	40.00000	0.0	0.0	0.0
3.00000		45.00000	40.00000	3.00000	45.00000	40.00000	0.0	0.0	0.0
4.00000		45.00000	40.00000	4.00000	45.00000	40.00000	0.0	0.0	0.0
5.00000		45.00000	40.00000	5.00000	45.00000	40.00000	0.0	0.0	0.0
6.00000		45.00000	40.00000	6.00000	45.00000	40.00000	0.0	0.0	0.0
7.00000		45.00000	40.00000	7.00000	45.00000	40.00000	0.0	0.0	0.0
8.00000		45.00000	40.00000	8.00000	45.00000	40.00000	0.0	0.0	0.0
9.00000		45.00000	40.00000	9.00000	45.00000	40.00000	0.0	0.0	0.0
10.00000		45.00000	40.00000	10.00000	45.00000	40.00000	0.27423	-0.10926	0.70405
11.00000		45.00000	40.00000	11.00000	45.00000	40.00000	0.52329	-0.23721	1.0243
12.00000		45.00000	40.00000	12.00000	45.00000	40.00000	0.74010	-0.38817	1.3367
13.00000		45.00000	40.00000	13.00000	45.00000	40.00000	0.91612	-0.56785	1.6389
14.00000		45.00000	40.00000	14.00000	45.00000	40.00000	1.0403	-0.78334	1.9274
15.00000		45.00000	40.00000	15.00000	45.00000	40.00000	1.0986	-1.0430	2.1975
16.00000		45.00000	40.00000	16.00000	45.00000	40.00000	1.0748	-1.3553	2.4426
17.00000		45.00000	40.00000	17.00000	45.00000	40.00000	0.95251	-1.7260	2.6536
18.00000		45.00000	40.00000	18.00000	45.00000	40.00000	0.72208	-2.1509	2.8188
19.00000		45.00000	40.00000	19.00000	45.00000	40.00000	0.39207	-2.6064	2.9254
20.00000		45.00000	40.00000	20.00000	45.00000	40.00000	0.0	-3.0420	2.9624
21.00000		45.00000	40.00000	21.00000	45.00000	40.00000	0.0	-3.0420	2.9624
22.00000		45.00000	40.00000	22.00000	45.00000	40.00000	0.0	-3.0420	2.9624
23.00000		45.00000	40.00000	23.00000	45.00000	40.00000	0.0	-3.0420	2.9624
24.00000		45.00000	40.00000	24.00000	45.00000	40.00000	0.0	-3.0420	2.9624
25.00000		45.00000	40.00000	25.00000	45.00000	40.00000	0.0	-3.0420	2.9624
26.00000		45.00000	40.00000	26.00000	45.00000	40.00000	0.0	-3.0420	2.9624
27.00000		45.00000	40.00000	27.00000	45.00000	40.00000	0.0	-3.0420	2.9624
28.00000		45.00000	40.00000	28.00000	45.00000	40.00000	-0.39207	-2.6064	2.9254
29.00000		45.00000	40.00000	29.00000	45.00000	40.00000	-0.72208	-2.1509	2.8188
30.00000		45.00000	40.00000	30.00000	45.00000	40.00000	-0.95251	-1.7260	2.6536
31.00000		45.00000	40.00000	31.00000	45.00000	40.00000	-1.0748	-1.3553	2.4426
32.00000		45.00000	40.00000	32.00000	45.00000	40.00000	-1.0986	-1.0430	2.1975
33.00000		45.00000	40.00000	33.00000	45.00000	40.00000	-1.0403	-0.78334	1.9274
34.00000		45.00000	40.00000	34.00000	45.00000	40.00000	-0.91612	-0.56785	1.6389
35.00000		45.00000	40.00000	35.00000	45.00000	40.00000	-0.74010	-0.38817	1.3367
36.00000		45.00000	40.00000	36.00000	45.00000	40.00000	-0.52329	-0.23721	1.0243
37.00000		45.00000	40.00000	37.00000	45.00000	40.00000	-0.27423	-0.10926	0.70405
38.00000		45.00000	40.00000	38.00000	45.00000	40.00000	0.0	0.0	0.0
39.00000		45.00000	40.00000	39.00000	45.00000	40.00000	0.0	0.0	0.0
40.00000		45.00000	40.00000	40.00000	45.00000	40.00000	0.0	0.0	0.0
41.00000		45.00000	40.00000	41.00000	45.00000	40.00000	0.0	0.0	0.0
42.00000		45.00000	40.00000	42.00000	45.00000	40.00000	0.0	0.0	0.0
43.00000		45.00000	40.00000	43.00000	45.00000	40.00000	0.0	0.0	0.0
44.00000		45.00000	40.00000	44.00000	45.00000	40.00000	0.0	0.0	0.0
45.00000		45.00000	40.00000	45.00000	45.00000	40.00000	0.0	0.0	0.0
46.00000		45.00000	40.00000	46.00000	45.00000	40.00000	0.0	0.0	0.0
47.00000		45.00000	40.00000	47.00000	45.00000	40.00000	0.0	0.0	0.0
48.00000		45.00000	40.00000	48.00000	45.00000	40.00000	0.0	0.0	0.0
49.00000		45.00000	40.00000	49.00000	45.00000	40.00000	0.0	0.0	0.0
50.00000		45.00000	40.00000	50.00000	45.00000	40.00000	0.0	0.0	0.0
0.00000		46.00000	40.00000	0.00000	46.00000	40.00000	0.0	0.0	0.0
1.00000		46.00000	40.00000	1.00000	46.00000	40.00000	0.0	0.0	0.0
2.00000		46.00000	40.00000	2.00000	46.00000	40.00000	0.0	0.0	0.0
3.00000		46.00000	40.00000	3.00000	46.00000	40.00000	0.0	0.0	0.0
4.00000		46.00000	40.00000	4.00000	46.00000	40.00000	0.0	0.0	0.0
5.00000		46.00000	40.00000	5.00000	46.00000	40.00000	0.0	0.0	0.0
6.00000		46.00000	40.00000	6.00000	46.00000	40.00000	0.0	0.0	0.0
7.00000		46.00000	40.00000	7.00000	46.00000	40.00000	0.0	0.0	0.0
8.00000		46.00000	40.00000	8.00000	46.00000	40.00000	0.0	0.0	0.0
9.00000		46.00000	40.00000	9.00000	46.00000	40.00000	0.0	0.0	0.0
10.00000		46.00000	40.00000	10.00000	46.00000	40.00000	0.12362	-0.062162	0.53611
11.00000		46.00000	40.00000	11.00000	46.00000	40.00000	0.34720	-0.19909	0.84235
12.00000		46.00000	40.00000	12.00000	46.00000	40.00000	0.53767	-0.35749	1.1387
13.00000		46.00000	40.00000	13.00000	46.00000	40.00000	0.68775	-0.54145	1.4225



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Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
14.00000	46.00000	40.00000		14.00000	46.00000	40.00000	0.78877	-0.75545	1.6901
15.00000	46.00000	40.00000		15.00000	46.00000	40.00000	0.83096	-1.0037	1.9368
16.00000	46.00000	40.00000		16.00000	46.00000	40.00000	0.80456	-1.2887	2.1565
17.00000	46.00000	40.00000		17.00000	46.00000	40.00000	0.70232	-1.6088	2.3415
18.00000	46.00000	40.00000		18.00000	46.00000	40.00000	0.52382	-1.9541	2.4832
19.00000	46.00000	40.00000		19.00000	46.00000	40.00000	0.28079	-2.3026	2.5728
20.00000	46.00000	40.00000		20.00000	46.00000	40.00000	0.0	-2.6195	2.6035
21.00000	46.00000	40.00000		21.00000	46.00000	40.00000	0.0	-2.6195	2.6035
22.00000	46.00000	40.00000		22.00000	46.00000	40.00000	0.0	-2.6195	2.6035
23.00000	46.00000	40.00000		23.00000	46.00000	40.00000	0.0	-2.6195	2.6035
24.00000	46.00000	40.00000		24.00000	46.00000	40.00000	0.0	-2.6195	2.6035
25.00000	46.00000	40.00000		25.00000	46.00000	40.00000	0.0	-2.6195	2.6035
26.00000	46.00000	40.00000		26.00000	46.00000	40.00000	0.0	-2.6195	2.6035
27.00000	46.00000	40.00000		27.00000	46.00000	40.00000	0.0	-2.6195	2.6035
28.00000	46.00000	40.00000		28.00000	46.00000	40.00000	-0.28079	-2.3026	2.5728
29.00000	46.00000	40.00000		29.00000	46.00000	40.00000	-0.52382	-1.9541	2.4832
30.00000	46.00000	40.00000		30.00000	46.00000	40.00000	-0.70232	-1.6088	2.3415
31.00000	46.00000	40.00000		31.00000	46.00000	40.00000	-0.80456	-1.2887	2.1565
32.00000	46.00000	40.00000		32.00000	46.00000	40.00000	-0.83096	-1.0037	1.9368
33.00000	46.00000	40.00000		33.00000	46.00000	40.00000	-0.78877	-0.75545	1.6901
34.00000	46.00000	40.00000		34.00000	46.00000	40.00000	-0.68775	-0.54145	1.4225
35.00000	46.00000	40.00000		35.00000	46.00000	40.00000	-0.53767	-0.35749	1.1387
36.00000	46.00000	40.00000		36.00000	46.00000	40.00000	-0.34720	-0.19909	0.84235
37.00000	46.00000	40.00000		37.00000	46.00000	40.00000	-0.12362	-0.062162	0.53611
38.00000	46.00000	40.00000		38.00000	46.00000	40.00000	0.0	0.0	0.0
39.00000	46.00000	40.00000		39.00000	46.00000	40.00000	0.0	0.0	0.0
40.00000	46.00000	40.00000		40.00000	46.00000	40.00000	0.0	0.0	0.0
41.00000	46.00000	40.00000		41.00000	46.00000	40.00000	0.0	0.0	0.0
42.00000	46.00000	40.00000		42.00000	46.00000	40.00000	0.0	0.0	0.0
43.00000	46.00000	40.00000		43.00000	46.00000	40.00000	0.0	0.0	0.0
44.00000	46.00000	40.00000		44.00000	46.00000	40.00000	0.0	0.0	0.0
45.00000	46.00000	40.00000		45.00000	46.00000	40.00000	0.0	0.0	0.0
46.00000	46.00000	40.00000		46.00000	46.00000	40.00000	0.0	0.0	0.0
47.00000	46.00000	40.00000		47.00000	46.00000	40.00000	0.0	0.0	0.0
48.00000	46.00000	40.00000		48.00000	46.00000	40.00000	0.0	0.0	0.0
49.00000	46.00000	40.00000		49.00000	46.00000	40.00000	0.0	0.0	0.0
50.00000	46.00000	40.00000		50.00000	46.00000	40.00000	0.0	0.0	0.0
0.00000	47.00000	40.00000		0.00000	47.00000	40.00000	0.0	0.0	0.0
1.00000	47.00000	40.00000		1.00000	47.00000	40.00000	0.0	0.0	0.0
2.00000	47.00000	40.00000		2.00000	47.00000	40.00000	0.0	0.0	0.0
3.00000	47.00000	40.00000		3.00000	47.00000	40.00000	0.0	0.0	0.0
4.00000	47.00000	40.00000		4.00000	47.00000	40.00000	0.0	0.0	0.0
5.00000	47.00000	40.00000		5.00000	47.00000	40.00000	0.0	0.0	0.0
6.00000	47.00000	40.00000		6.00000	47.00000	40.00000	0.0	0.0	0.0
7.00000	47.00000	40.00000		7.00000	47.00000	40.00000	0.0	0.0	0.0
8.00000	47.00000	40.00000		8.00000	47.00000	40.00000	0.0	0.0	0.0
9.00000	47.00000	40.00000		9.00000	47.00000	40.00000	0.0	0.0	0.0
10.00000	47.00000	40.00000		10.00000	47.00000	40.00000	0.0	0.0	0.0
11.00000	47.00000	40.00000		11.00000	47.00000	40.00000	0.17888	-0.12529	0.63668
12.00000	47.00000	40.00000		12.00000	47.00000	40.00000	0.34963	-0.28432	0.91682
13.00000	47.00000	40.00000		13.00000	47.00000	40.00000	0.48213	-0.46466	1.1826
14.00000	47.00000	40.00000		14.00000	47.00000	40.00000	0.57004	-0.66847	1.4304
15.00000	47.00000	40.00000		15.00000	47.00000	40.00000	0.60704	-0.89690	1.6558
16.00000	47.00000	40.00000		16.00000	47.00000	40.00000	0.58792	-1.1489	1.8537
17.00000	47.00000	40.00000		17.00000	47.00000	40.00000	0.51046	-1.4194	2.0176
18.00000	47.00000	40.00000		18.00000	47.00000	40.00000	0.37793	-1.6974	2.1412
19.00000	47.00000	40.00000		19.00000	47.00000	40.00000	0.20135	-1.9648	2.2183
20.00000	47.00000	40.00000		20.00000	47.00000	40.00000	0.0	-2.1970	2.2446
21.00000	47.00000	40.00000		21.00000	47.00000	40.00000	0.0	-2.1970	2.2446
22.00000	47.00000	40.00000		22.00000	47.00000	40.00000	0.0	-2.1970	2.2446
23.00000	47.00000	40.00000		23.00000	47.00000	40.00000	0.0	-2.1970	2.2446
24.00000	47.00000	40.00000		24.00000	47.00000	40.00000	0.0	-2.1970	2.2446
25.00000	47.00000	40.00000		25.00000	47.00000	40.00000	0.0	-2.1970	2.2446
26.00000	47.00000	40.00000		26.00000	47.00000	40.00000	0.0	-2.1970	2.2446
27.00000	47.00000	40.00000		27.00000	47.00000	40.00000	0.0	-2.1970	2.2446
28.00000	47.00000	40.00000		28.00000	47.00000	40.00000	-0.20135	-1.9648	2.2183
29.00000	47.00000	40.00000		29.00000	47.00000	40.00000	-0.37793	-1.6974	2.1412
30.00000	47.00000	40.00000		30.00000	47.00000	40.00000	-0.51046	-1.4194	2.0176
31.00000	47.00000	40.00000		31.00000	47.00000	40.00000	-0.58792	-1.1489	1.8537
32.00000	47.00000	40.00000		32.00000	47.00000	40.00000	-0.60704	-0.89690	1.6558
33.00000	47.00000	40.00000		33.00000	47.00000	40.00000	-0.57004	-0.66847	1.4304



GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

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Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				34.00000	47.00000	40.00000	-0.48213	-0.46466	1.1826
				35.00000	47.00000	40.00000	-0.34963	-0.28432	0.91682
				36.00000	47.00000	40.00000	-0.17888	-0.12529	0.63668
				37.00000	47.00000	40.00000	0.0	0.0	0.0
				38.00000	47.00000	40.00000	0.0	0.0	0.0
				39.00000	47.00000	40.00000	0.0	0.0	0.0
				40.00000	47.00000	40.00000	0.0	0.0	0.0
				41.00000	47.00000	40.00000	0.0	0.0	0.0
				42.00000	47.00000	40.00000	0.0	0.0	0.0
				43.00000	47.00000	40.00000	0.0	0.0	0.0
				44.00000	47.00000	40.00000	0.0	0.0	0.0
				45.00000	47.00000	40.00000	0.0	0.0	0.0
				46.00000	47.00000	40.00000	0.0	0.0	0.0
				47.00000	47.00000	40.00000	0.0	0.0	0.0
				48.00000	47.00000	40.00000	0.0	0.0	0.0
				49.00000	47.00000	40.00000	0.0	0.0	0.0
				50.00000	47.00000	40.00000	0.0	0.0	0.0
				0.00000	48.00000	40.00000	0.0	0.0	0.0
				1.00000	48.00000	40.00000	0.0	0.0	0.0
				2.00000	48.00000	40.00000	0.0	0.0	0.0
				3.00000	48.00000	40.00000	0.0	0.0	0.0
				4.00000	48.00000	40.00000	0.0	0.0	0.0
				5.00000	48.00000	40.00000	0.0	0.0	0.0
				6.00000	48.00000	40.00000	0.0	0.0	0.0
				7.00000	48.00000	40.00000	0.0	0.0	0.0
				8.00000	48.00000	40.00000	0.0	0.0	0.0
				9.00000	48.00000	40.00000	0.0	0.0	0.0
				10.00000	48.00000	40.00000	0.0	0.0	0.0
				11.00000	48.00000	40.00000	0.020817	-0.017352	0.41072
				12.00000	48.00000	40.00000	0.17748	-0.17185	0.67504
				13.00000	48.00000	40.00000	0.29893	-0.34307	0.92366
				14.00000	48.00000	40.00000	0.38082	-0.53147	1.1533
				15.00000	48.00000	40.00000	0.41935	-0.73620	1.3599
				16.00000	48.00000	40.00000	0.41220	-0.95423	1.5390
				17.00000	48.00000	40.00000	0.35978	-1.1794	1.6858
				18.00000	48.00000	40.00000	0.26652	-1.4014	1.7951
				19.00000	48.00000	40.00000	0.14186	-1.6057	1.8628
				20.00000	48.00000	40.00000	0.0	-1.7745	1.8857
				21.00000	48.00000	40.00000	0.0	-1.7745	1.8857
				22.00000	48.00000	40.00000	0.0	-1.7745	1.8857
				23.00000	48.00000	40.00000	0.0	-1.7745	1.8857
				24.00000	48.00000	40.00000	0.0	-1.7745	1.8857
				25.00000	48.00000	40.00000	0.0	-1.7745	1.8857
				26.00000	48.00000	40.00000	0.0	-1.7745	1.8857
				27.00000	48.00000	40.00000	0.0	-1.7745	1.8857
				28.00000	48.00000	40.00000	-0.14186	-1.6057	1.8628
				29.00000	48.00000	40.00000	-0.26652	-1.4014	1.7951
				30.00000	48.00000	40.00000	-0.35978	-1.1794	1.6858
				31.00000	48.00000	40.00000	-0.41220	-0.95423	1.5390
				32.00000	48.00000	40.00000	-0.41935	-0.73620	1.3599
				33.00000	48.00000	40.00000	-0.38082	-0.53147	1.1533
				34.00000	48.00000	40.00000	-0.29893	-0.34307	0.92366
				35.00000	48.00000	40.00000	-0.17748	-0.17185	0.67504
				36.00000	48.00000	40.00000	-0.020817	-0.017352	0.41072
				37.00000	48.00000	40.00000	0.0	0.0	0.0
				38.00000	48.00000	40.00000	0.0	0.0	0.0
				39.00000	48.00000	40.00000	0.0	0.0	0.0
				40.00000	48.00000	40.00000	0.0	0.0	0.0
				41.00000	48.00000	40.00000	0.0	0.0	0.0
				42.00000	48.00000	40.00000	0.0	0.0	0.0
				43.00000	48.00000	40.00000	0.0	0.0	0.0
				44.00000	48.00000	40.00000	0.0	0.0	0.0
				45.00000	48.00000	40.00000	0.0	0.0	0.0
				46.00000	48.00000	40.00000	0.0	0.0	0.0
				47.00000	48.00000	40.00000	0.0	0.0	0.0
				48.00000	48.00000	40.00000	0.0	0.0	0.0
				49.00000	48.00000	40.00000	0.0	0.0	0.0
				50.00000	48.00000	40.00000	0.0	0.0	0.0
				0.00000	49.00000	40.00000	0.0	0.0	0.0
				1.00000	49.00000	40.00000	0.0	0.0	0.0
				2.00000	49.00000	40.00000	0.0	0.0	0.0



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GEOTECHNICAL AND ENVIRONMENTAL ASSOCIATES LTD J23059

Job No. Sheet No. Rev.

Drg. Ref.

Made by AT Date 25-Apr-2023 Checked Date

Stage: Ref.	Stage: Name	Disp. Grid: Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				3.00000	49.00000	40.00000	0.0	0.0	0.0
				4.00000	49.00000	40.00000	0.0	0.0	0.0
				5.00000	49.00000	40.00000	0.0	0.0	0.0
				6.00000	49.00000	40.00000	0.0	0.0	0.0
				7.00000	49.00000	40.00000	0.0	0.0	0.0
				8.00000	49.00000	40.00000	0.0	0.0	0.0
				9.00000	49.00000	40.00000	0.0	0.0	0.0
				10.00000	49.00000	40.00000	0.0	0.0	0.0
				11.00000	49.00000	40.00000	0.0	0.0	0.0
				12.00000	49.00000	40.00000	0.021263	-0.024006	0.41675
				13.00000	49.00000	40.00000	0.13654	-0.18264	0.64942
				14.00000	49.00000	40.00000	0.21716	-0.35287	0.86252
				15.00000	49.00000	40.00000	0.26110	-0.53267	1.0526
				16.00000	49.00000	40.00000	0.26778	-0.71815	1.2158
				17.00000	49.00000	40.00000	0.23884	-0.90305	1.3483
				18.00000	49.00000	40.00000	0.17886	-1.0783	1.4462
				19.00000	49.00000	40.00000	0.095666	-1.2324	1.5065
				20.00000	49.00000	40.00000	0.0	-1.3520	1.5268
				21.00000	49.00000	40.00000	0.0	-1.3520	1.5268
				22.00000	49.00000	40.00000	0.0	-1.3520	1.5268
				23.00000	49.00000	40.00000	0.0	-1.3520	1.5268
				24.00000	49.00000	40.00000	0.0	-1.3520	1.5268
				25.00000	49.00000	40.00000	0.0	-1.3520	1.5268
				26.00000	49.00000	40.00000	0.0	-1.3520	1.5268
				27.00000	49.00000	40.00000	0.0	-1.3520	1.5268
				28.00000	49.00000	40.00000	-0.095666	-1.2324	1.5065
				29.00000	49.00000	40.00000	-0.17886	-1.0783	1.4462
				30.00000	49.00000	40.00000	-0.23884	-0.90305	1.3483
				31.00000	49.00000	40.00000	-0.26778	-0.71815	1.2158
				32.00000	49.00000	40.00000	-0.26110	-0.53267	1.0526
				33.00000	49.00000	40.00000	-0.21716	-0.35287	0.86252
				34.00000	49.00000	40.00000	-0.13654	-0.18264	0.64942
				35.00000	49.00000	40.00000	-0.021263	-0.024006	0.41675
				36.00000	49.00000	40.00000	0.0	0.0	0.0
				37.00000	49.00000	40.00000	0.0	0.0	0.0
				38.00000	49.00000	40.00000	0.0	0.0	0.0
				39.00000	49.00000	40.00000	0.0	0.0	0.0
				40.00000	49.00000	40.00000	0.0	0.0	0.0
				41.00000	49.00000	40.00000	0.0	0.0	0.0
				42.00000	49.00000	40.00000	0.0	0.0	0.0
				43.00000	49.00000	40.00000	0.0	0.0	0.0
				44.00000	49.00000	40.00000	0.0	0.0	0.0
				45.00000	49.00000	40.00000	0.0	0.0	0.0
				46.00000	49.00000	40.00000	0.0	0.0	0.0
				47.00000	49.00000	40.00000	0.0	0.0	0.0
				48.00000	49.00000	40.00000	0.0	0.0	0.0
				49.00000	49.00000	40.00000	0.0	0.0	0.0
				50.00000	49.00000	40.00000	0.0	0.0	0.0
				0.00000	50.00000	40.00000	0.0	0.0	0.0
				1.00000	50.00000	40.00000	0.0	0.0	0.0
				2.00000	50.00000	40.00000	0.0	0.0	0.0
				3.00000	50.00000	40.00000	0.0	0.0	0.0
				4.00000	50.00000	40.00000	0.0	0.0	0.0
				5.00000	50.00000	40.00000	0.0	0.0	0.0
				6.00000	50.00000	40.00000	0.0	0.0	0.0
				7.00000	50.00000	40.00000	0.0	0.0	0.0
				8.00000	50.00000	40.00000	0.0	0.0	0.0
				9.00000	50.00000	40.00000	0.0	0.0	0.0
				10.00000	50.00000	40.00000	0.0	0.0	0.0
				11.00000	50.00000	40.00000	0.0	0.0	0.0
				12.00000	50.00000	40.00000	0.0	0.0	0.0
				13.00000	50.00000	40.00000	0.0	0.0	0.0
				14.00000	50.00000	40.00000	0.075233	-0.13988	0.56102
				15.00000	50.00000	40.00000	0.12666	-0.29507	0.73654
				16.00000	50.00000	40.00000	0.14750	-0.45038	0.88618
				17.00000	50.00000	40.00000	0.13992	-0.59992	1.0068
				18.00000	50.00000	40.00000	0.10819	-0.73597	1.0954
				19.00000	50.00000	40.00000	0.058781	-0.84922	1.1496
				20.00000	50.00000	40.00000	0.0	-0.92950	1.1679
				21.00000	50.00000	40.00000	0.0	-0.92950	1.1679
				22.00000	50.00000	40.00000	0.0	-0.92950	1.1679



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Stage: Ref.	Stage: Name	Disp. Ref.	Disp. Grid: Name	x	y	z	δx	δy	δz
				[m]	[m]	[m]	[mm]	[mm]	[mm]
				23.00000	50.00000	40.00000	0.0	-0.92950	1.1679
				24.00000	50.00000	40.00000	0.0	-0.92950	1.1679
				25.00000	50.00000	40.00000	0.0	-0.92950	1.1679
				26.00000	50.00000	40.00000	0.0	-0.92950	1.1679
				27.00000	50.00000	40.00000	0.0	-0.92950	1.1679
				28.00000	50.00000	40.00000	-0.058781	-0.84922	1.1496
				29.00000	50.00000	40.00000	-0.10819	-0.73597	1.0954
				30.00000	50.00000	40.00000	-0.13992	-0.59992	1.0068
				31.00000	50.00000	40.00000	-0.14750	-0.45038	0.88618
				32.00000	50.00000	40.00000	-0.12666	-0.29507	0.73654
				33.00000	50.00000	40.00000	-0.075233	-0.13988	0.56102
				34.00000	50.00000	40.00000	0.0	0.0	0.0
				35.00000	50.00000	40.00000	0.0	0.0	0.0
				36.00000	50.00000	40.00000	0.0	0.0	0.0
				37.00000	50.00000	40.00000	0.0	0.0	0.0
				38.00000	50.00000	40.00000	0.0	0.0	0.0
				39.00000	50.00000	40.00000	0.0	0.0	0.0
				40.00000	50.00000	40.00000	0.0	0.0	0.0
				41.00000	50.00000	40.00000	0.0	0.0	0.0
				42.00000	50.00000	40.00000	0.0	0.0	0.0
				43.00000	50.00000	40.00000	0.0	0.0	0.0
				44.00000	50.00000	40.00000	0.0	0.0	0.0
				45.00000	50.00000	40.00000	0.0	0.0	0.0
				46.00000	50.00000	40.00000	0.0	0.0	0.0
				47.00000	50.00000	40.00000	0.0	0.0	0.0
				48.00000	50.00000	40.00000	0.0	0.0	0.0
				49.00000	50.00000	40.00000	0.0	0.0	0.0
				50.00000	50.00000	40.00000	0.0	0.0	0.0

Specific Building Damage Results - Horizontal Displacements

Stage: δy Ref.	Stage: $\delta H//$ Ref.	Name Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist.	x	y	z	δx
[mm]	[mm]	[mm]			[m]	[m]	[m]	[m]	[mm]
0	Base Model	1	68 Lady Margaret Road	Wall 1	0.0	27.10000	20.00000	38.40000	-0.0044379
0.71361	0.71361	0.0044379			1.0100	27.10000	21.01000	38.40000	-0.0078444
1.1369	1.1369	0.0078444			2.0200	27.10000	22.02000	38.40000	-0.012082
1.5594	1.5594	0.012082			3.0300	27.10000	23.03000	38.40000	-0.017496
1.9806	1.9806	0.017496			4.0400	27.10000	24.04000	38.40000	-0.024657
2.4002	2.4002	0.024657			5.0500	27.10000	25.05000	38.40000	-0.034573
2.8169	2.8169	0.034573			6.0600	27.10000	26.06000	38.40000	-0.049210
3.2289	3.2289	0.049210			7.0700	27.10000	27.07000	38.40000	-0.072994
3.6317	3.6317	0.072994			8.0800	27.10000	28.08000	38.40000	-0.11839
4.0127	4.0127	0.11839			9.0900	27.10000	29.09000	38.40000	-0.23922
4.3178	4.3178	0.23922			10.100	27.10000	30.10000	38.40000	-1.4686
3.5069	3.5069	1.4686			0.0	27.10000	30.20000	38.40000	-2.5051
2.5051	-2.5051	2.5051	68 Lady Margaret Road	Wall 2	0.0	27.10000	30.20000	38.40000	-4.3541
0.37944	-4.3541	0.37944			0.69000	27.79000	30.20000	38.40000	-4.2524
0.19084	-4.2524	0.19084			1.3800	28.48000	30.20000	38.40000	-4.0305
0.12173	-4.0305	0.12173			2.0700	29.17000	30.20000	38.40000	-3.7750
0.085907	-3.7750	0.085907			2.7600	29.86000	30.20000	38.40000	



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70 Lady Margaret Road

Job No.	Sheet No.	Rev.
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Stage:	Stage:	Name	Specific	Specific Building:	Sub-building	Dist.	x	y	z	δx
δy	δH//	δHperp.	Building:	Name	Name					
Ref.	Ref.	Ref.	Ref.							
0.063995	-3.5055	0.063995				3.4500	30.55000	30.20000	38.40000	-3.5055
0.049210	-3.2289	0.049210				4.1400	31.24000	30.20000	38.40000	-3.2289
0.038562	-2.9481	0.038562				4.8300	31.93000	30.20000	38.40000	-2.9481
0.030527	-2.6646	0.030527				5.5200	32.62000	30.20000	38.40000	-2.6646
0.024249	-2.3794	0.024249				6.2100	33.31000	30.20000	38.40000	-2.3794
0.019208	-2.0930	0.019208				6.9000	34.00000	30.20000	38.40000	-2.0930
0.038392	-0.038392	-2.0729	3	68 Lady Margaret Road	Wall 3	0.0	34.00000	30.10000	38.40000	-2.0729
0.22541	-0.22541	-1.8432				1.0100	34.00000	29.09000	38.40000	-1.8432
0.38464	-0.38464	-1.5827				2.0200	34.00000	28.08000	38.40000	-1.5827
0.49893	-0.49893	-1.3139				3.0300	34.00000	27.07000	38.40000	-1.3139
0.55899	-0.55899	-1.0533				4.0400	34.00000	26.06000	38.40000	-1.0533
0.56252	-0.56252	-0.81060				5.0500	34.00000	25.05000	38.40000	-0.81060
0.51206	-0.51206	-0.59031				6.0600	34.00000	24.04000	38.40000	-0.59031
0.41273	-0.41273	-0.39331				7.0700	34.00000	23.03000	38.40000	-0.39331
0.27056	-0.27056	-0.21851				8.0800	34.00000	22.02000	38.40000	-0.21851
0.091557	-0.091557	-0.063911				9.0900	34.00000	21.01000	38.40000	-0.063911
0.0	0.0	0.0				10.100	34.00000	20.00000	38.40000	0.0
0.0	0.0	0.0	4	68 Lady Margaret Road	Wall 4	0.0	34.00000	19.90000	38.40000	0.0
0.0	0.0	0.0				0.69000	33.31000	19.90000	38.40000	0.0
0.051672	0.023806	-0.051672				1.3800	32.62000	19.90000	38.40000	-0.023806
0.14888	0.058420	-0.14888				2.0700	31.93000	19.90000	38.40000	-0.058420
0.24480	0.080061	-0.24480				2.7600	31.24000	19.90000	38.40000	-0.080061
0.33763	0.089432	-0.33763				3.4500	30.55000	19.90000	38.40000	-0.089432
0.42526	0.087624	-0.42526				4.1400	29.86000	19.90000	38.40000	-0.087624
0.50524	0.076133	-0.50524				4.8300	29.17000	19.90000	38.40000	-0.076133
0.57488	0.056850	-0.57488				5.5200	28.48000	19.90000	38.40000	-0.056850
0.63132	0.032017	-0.63132				6.2100	27.79000	19.90000	38.40000	-0.032017
0.67166	0.0041367	-0.67166	5	68 Lady Margaret Road	Wall 5	0.0	27.10000	30.30000	39.30000	-5.0278
0.0	0.0	5.0278				0.99000	27.10000	31.29000	39.30000	-5.0278
0.0	0.0	5.0278				1.9800	27.10000	32.28000	39.30000	-5.0278
0.0	0.0	5.0278				2.9700	27.10000	33.27000	39.30000	-5.0278
0.0	0.0	5.0278				3.9600	27.10000	34.26000	39.30000	-5.0278
0.0	0.0	5.0278				4.9500	27.10000	35.25000	39.30000	-5.0278
0.0	0.0	5.0278				5.9400	27.10000	36.24000	39.30000	-5.0278
0.0	0.0	5.0278				6.9300	27.10000	37.23000	39.30000	-5.0278



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70 Lady Margaret Road

Job No.	Sheet No.	Rev.
D J23059		
Drg. Ref.		
Made by AT	Date 25-Apr-2023	Checked Date

Stage:	Stage:	Name	Specific	Specific Building:	Sub-building	Dist.	x	y	z	δx
δy	δH//	δH	perp.							
Ref.	Ref.	Ref.	Building:	Name	Name					
0.0	0.0	5.0278				7.9200	27.10000	38.22000	39.30000	-5.0278
0.0	0.0	5.0278				8.9100	27.10000	39.21000	39.30000	-5.0278
0.0	0.0	5.0278				9.9000	27.10000	40.20000	39.30000	-5.0278
0.0	0.0	5.0278				0.0	27.20000	40.20000	39.30000	-4.9855
0.0	-4.9855	0.0	6	68 Lady Margaret Road	Wall 6	0.67000	27.87000	40.20000	39.30000	-4.7024
0.0	-4.7024	0.0				1.3400	28.54000	40.20000	39.30000	-4.4194
0.0	-4.4194	0.0				2.0100	29.21000	40.20000	39.30000	-4.1363
0.0	-4.1363	0.0				2.6800	29.88000	40.20000	39.30000	-3.8532
0.0	-3.8532	0.0				3.3500	30.55000	40.20000	39.30000	-3.5701
0.0	-3.5701	0.0				4.0200	31.22000	40.20000	39.30000	-3.2871
0.0	-3.2871	0.0				4.6900	31.89000	40.20000	39.30000	-3.0040
0.0	-3.0040	0.0				5.3600	32.56000	40.20000	39.30000	-2.7209
0.0	-2.7209	0.0				6.0300	33.23000	40.20000	39.30000	-2.4378
0.0	-2.4378	0.0				6.7000	33.90000	40.20000	39.30000	-2.1548
0.0	-2.1548	0.0	7	68 Lady Margaret Road	Wall 7	0.0	34.00000	40.20000	39.30000	-2.1125
0.0	0.0	-2.1125				0.34000	34.00000	39.86000	39.30000	-2.1125
0.0	0.0	-2.1125				0.68000	34.00000	39.52000	39.30000	-2.1125
0.0	0.0	-2.1125				1.0200	34.00000	39.18000	39.30000	-2.1125
0.0	0.0	-2.1125				1.3600	34.00000	38.84000	39.30000	-2.1125
0.0	0.0	-2.1125				1.7000	34.00000	38.50000	39.30000	-2.1125
0.0	0.0	-2.1125				2.0400	34.00000	38.16000	39.30000	-2.1125
0.0	0.0	-2.1125				2.3800	34.00000	37.82000	39.30000	-2.1125
0.0	0.0	-2.1125				2.7200	34.00000	37.48000	39.30000	-2.1125
0.0	0.0	-2.1125				3.0600	34.00000	37.14000	39.30000	-2.1125
0.0	0.0	-2.1125				3.4000	34.00000	36.80000	39.30000	-2.1125
0.0	0.0	-2.1125	8	68 Lady Margaret Road	Wall 8	0.0	34.00000	36.70000	39.30000	-2.1125
0.0	2.1125	0.0				0.30000	33.70000	36.70000	39.30000	-2.2392
0.0	2.2392	0.0				0.60000	33.40000	36.70000	39.30000	-2.3660
0.0	2.3660	0.0				0.90000	33.10000	36.70000	39.30000	-2.4928
0.0	2.4928	0.0				1.2000	32.80000	36.70000	39.30000	-2.6195
0.0	2.6195	0.0				1.5000	32.50000	36.70000	39.30000	-2.7462
0.0	2.7462	0.0				1.8000	32.20000	36.70000	39.30000	-2.8730
0.0	2.8730	0.0				2.1000	31.90000	36.70000	39.30000	-2.9998
0.0	2.9998	0.0				2.4000	31.60000	36.70000	39.30000	-3.1265
0.0	3.1265	0.0				2.7000	31.30000	36.70000	39.30000	-3.2532
0.0	3.2532	0.0								



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70 Lady Margaret Road

Job No.	Sheet No.	Rev.
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Stage:	Stage:	Name Specific	Specific Building:	Sub-building	Dist.	x	y	z	δx
δy	δH//	δHperp.							
Ref.	Ref.	Ref.	Building:	Name					
			Ref.	Name					
0.0	3.3800	0.0			3.0000	31.00000	36.70000	39.30000	-3.3800
			9	68 Lady Margaret Road Wall 9	0.0	31.00000	36.60000	39.30000	-3.3800
0.0	0.0	-3.3800			0.23000	31.00000	36.37000	39.30000	-3.3800
0.0	0.0	-3.3800			0.46000	31.00000	36.14000	39.30000	-3.3800
0.0	0.0	-3.3800			0.69000	31.00000	35.91000	39.30000	-3.3800
0.0	0.0	-3.3800			0.92000	31.00000	35.68000	39.30000	-3.3800
0.0	0.0	-3.3800			1.1500	31.00000	35.45000	39.30000	-3.3800
0.0	0.0	-3.3800			1.3800	31.00000	35.22000	39.30000	-3.3800
0.0	0.0	-3.3800			1.6100	31.00000	34.99000	39.30000	-3.3800
0.0	0.0	-3.3800			1.8400	31.00000	34.76000	39.30000	-3.3800
0.0	0.0	-3.3800			2.0700	31.00000	34.53000	39.30000	-3.3800
0.0	0.0	-3.3800			2.3000	31.00000	34.30000	39.30000	-3.3800
0.0	0.0	-3.3800			0.0	31.00000	34.20000	39.30000	-3.3800
			10	68 Lady Margaret Road Wall 10	0.0	31.00000	34.20000	39.30000	-3.3800
0.0	-3.3800	0.0			0.30000	31.30000	34.20000	39.30000	-3.2532
0.0	-3.2532	0.0			0.60000	31.60000	34.20000	39.30000	-3.1265
0.0	-3.1265	0.0			0.90000	31.90000	34.20000	39.30000	-2.9998
0.0	-2.9998	0.0			1.2000	32.20000	34.20000	39.30000	-2.8730
0.0	-2.8730	0.0			1.5000	32.50000	34.20000	39.30000	-2.7462
0.0	-2.7462	0.0			1.8000	32.80000	34.20000	39.30000	-2.6195
0.0	-2.6195	0.0			2.1000	33.10000	34.20000	39.30000	-2.4928
0.0	-2.4928	0.0			2.4000	33.40000	34.20000	39.30000	-2.3660
0.0	-2.3660	0.0			2.7000	33.70000	34.20000	39.30000	-2.2392
0.0	-2.2392	0.0			3.0000	34.00000	34.20000	39.30000	-2.1125
0.0	-2.1125	0.0			0.0	34.00000	34.10000	39.30000	-2.1125
			11	68 Lady Margaret Road Wall 11	0.0	34.00000	34.10000	39.30000	-2.1125
0.0	0.0	-2.1125			0.38000	34.00000	33.72000	39.30000	-2.1125
0.0	0.0	-2.1125			0.76000	34.00000	33.34000	39.30000	-2.1125
0.0	0.0	-2.1125			1.1400	34.00000	32.96000	39.30000	-2.1125
0.0	0.0	-2.1125			1.5200	34.00000	32.58000	39.30000	-2.1125
0.0	0.0	-2.1125			1.9000	34.00000	32.20000	39.30000	-2.1125
0.0	0.0	-2.1125			2.2800	34.00000	31.82000	39.30000	-2.1125
0.0	0.0	-2.1125			2.6600	34.00000	31.44000	39.30000	-2.1125
0.0	0.0	-2.1125			3.0400	34.00000	31.06000	39.30000	-2.1125
0.0	0.0	-2.1125			3.4200	34.00000	30.68000	39.30000	-2.1125
0.0	0.0	-2.1125			3.8000	34.00000	30.30000	39.30000	-2.1125

Specific Building Damage Results - Vertical Displacements



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Stage: δy Ref.	Stage: δH // Ref.	Name Building: Ref.	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Dist.	x	y	z	δx	
Stage: Ref.	Stage: Ref.	Name Building: Ref.	Specific Building: Ref.	Specific Building: Name	Sub-building Name	Vertical Offset	Dist.	x	y	z	δz
						[m]	[m]	[m]	[m]	[m]	
0		Base Model	1	68 Lady Margaret Road	Wall 1	0.0	0.0	27.10000	20.00000	38.40000	
0.98825							1.0100	27.10000	21.01000	38.40000	
1.3507							2.0200	27.10000	22.02000	38.40000	
1.7132							3.0300	27.10000	23.03000	38.40000	
2.0757							4.0400	27.10000	24.04000	38.40000	
2.4381							5.0500	27.10000	25.05000	38.40000	
2.8005							6.0600	27.10000	26.06000	38.40000	
3.1630							7.0700	27.10000	27.07000	38.40000	
3.5253							8.0800	27.10000	28.08000	38.40000	
3.8876							9.0900	27.10000	29.09000	38.40000	
4.2494							10.100	27.10000	30.10000	38.40000	
4.6049							0.69000	27.79000	30.20000	38.40000	
4.6344			2	68 Lady Margaret Road	Wall 2	0.0	0.0	27.10000	30.20000	38.40000	
4.3993							1.3800	28.48000	30.20000	38.40000	
4.1527							2.0700	29.17000	30.20000	38.40000	
3.9055							2.7600	29.86000	30.20000	38.40000	
3.6580							3.4500	30.55000	30.20000	38.40000	
3.4105							4.1400	31.24000	30.20000	38.40000	
3.1630							4.8300	31.93000	30.20000	38.40000	
2.9154							5.5200	32.62000	30.20000	38.40000	
2.6678							6.2100	33.31000	30.20000	38.40000	
2.4202							6.9000	34.00000	30.20000	38.40000	
2.1725							0.0	0.0	34.00000	30.10000	38.40000
2.1718			3	68 Lady Margaret Road	Wall 3	0.0	0.0	34.00000	29.09000	38.40000	
2.1355							1.0100	34.00000	28.08000	38.40000	
2.0495							2.0200	34.00000	27.07000	38.40000	
1.9182							3.0300	34.00000	26.06000	38.40000	
1.7479							4.0400	34.00000	25.05000	38.40000	
1.5447							5.0500	34.00000	24.04000	38.40000	
1.3147							6.0600	34.00000	23.03000	38.40000	
1.0630							7.0700	34.00000	22.02000	38.40000	
0.79375							8.0800	34.00000	21.01000	38.40000	
0.51036							9.0900	34.00000	20.00000	38.40000	



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Stage Ref.	Stage Name	Specific Building Ref.	Specific Building Name	Sub-building Name	Vertical Offset	Dist. [m]	x [m]	y [m]	z [m]	δz
0.0						10.100	34.00000	20.00000	38.40000	
0.0		4	68 Lady Margaret Road	Wall 4	0.0	0.0	34.00000	19.90000	38.40000	
0.0						0.69000	33.31000	19.90000	38.40000	
0.0						1.3800	32.62000	19.90000	38.40000	
0.44241						2.0700	31.93000	19.90000	38.40000	
0.55439						2.7600	31.24000	19.90000	38.40000	
0.65425						3.4500	30.55000	19.90000	38.40000	
0.74107						4.1400	29.86000	19.90000	38.40000	
0.81397						4.8300	29.17000	19.90000	38.40000	
0.87215						5.5200	28.48000	19.90000	38.40000	
0.91493						6.2100	27.79000	19.90000	38.40000	
0.94178						6.9000	27.10000	19.90000	38.40000	
0.95236		5	68 Lady Margaret Road	Wall 5	0.0	0.0	27.10000	30.30000	39.30000	
4.6492						0.99000	27.10000	31.29000	39.30000	
4.6492						1.9800	27.10000	32.28000	39.30000	
4.6492						2.9700	27.10000	33.27000	39.30000	
4.6492						3.9600	27.10000	34.26000	39.30000	
4.6492						4.9500	27.10000	35.25000	39.30000	
4.6492						5.9400	27.10000	36.24000	39.30000	
4.6492						6.9300	27.10000	37.23000	39.30000	
4.6492						7.9200	27.10000	38.22000	39.30000	
4.6492						8.9100	27.10000	39.21000	39.30000	
4.6492						9.9000	27.10000	40.20000	39.30000	
4.6492		6	68 Lady Margaret Road	Wall 6	0.0	0.0	27.20000	40.20000	39.30000	
4.6133						0.67000	27.87000	40.20000	39.30000	
4.3729						1.3400	28.54000	40.20000	39.30000	
4.1324						2.0100	29.21000	40.20000	39.30000	
3.8919						2.6800	29.88000	40.20000	39.30000	
3.6515						3.3500	30.55000	40.20000	39.30000	
3.4110						4.0200	31.22000	40.20000	39.30000	
3.1706						4.6900	31.89000	40.20000	39.30000	
2.9301						5.3600	32.56000	40.20000	39.30000	
2.6896						6.0300	33.23000	40.20000	39.30000	
2.4492						6.7000	33.90000	40.20000	39.30000	
2.2087		7	68 Lady Margaret Road	Wall 7	0.0	0.0	34.00000	40.20000	39.30000	
2.1728						0.34000	34.00000	39.86000	39.30000	



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Stage Ref.	Stage Name	Specific Building Ref.	Specific Building Name	Sub-building Name	Vertical Offset	Dist. [m]	x [m]	y [m]	z [m]	δz
2.1728						0.68000	34.00000	39.52000	39.30000	
2.1728						1.0200	34.00000	39.18000	39.30000	
2.1728						1.3600	34.00000	38.84000	39.30000	
2.1728						1.7000	34.00000	38.50000	39.30000	
2.1728						2.0400	34.00000	38.16000	39.30000	
2.1728						2.3800	34.00000	37.82000	39.30000	
2.1728						2.7200	34.00000	37.48000	39.30000	
2.1728						3.0600	34.00000	37.14000	39.30000	
2.1728						3.4000	34.00000	36.80000	39.30000	
2.1728		8	68 Lady Margaret Road	Wall 8	0.0	0.0	34.00000	36.70000	39.30000	
2.1728						0.30000	33.70000	36.70000	39.30000	
2.2805						0.60000	33.40000	36.70000	39.30000	
2.3881						0.90000	33.10000	36.70000	39.30000	
2.4958						1.2000	32.80000	36.70000	39.30000	
2.6035						1.5000	32.50000	36.70000	39.30000	
2.7112						1.8000	32.20000	36.70000	39.30000	
2.8188						2.1000	31.90000	36.70000	39.30000	
2.9265						2.4000	31.60000	36.70000	39.30000	
3.0342						2.7000	31.30000	36.70000	39.30000	
3.1418						3.0000	31.00000	36.70000	39.30000	
3.2495		9	68 Lady Margaret Road	Wall 9	0.0	0.0	31.00000	36.60000	39.30000	
3.2495						0.23000	31.00000	36.37000	39.30000	
3.2495						0.46000	31.00000	36.14000	39.30000	
3.2495						0.69000	31.00000	35.91000	39.30000	
3.2495						0.92000	31.00000	35.68000	39.30000	
3.2495						1.1500	31.00000	35.45000	39.30000	
3.2495						1.3800	31.00000	35.22000	39.30000	
3.2495						1.6100	31.00000	34.99000	39.30000	
3.2495						1.8400	31.00000	34.76000	39.30000	
3.2495						2.0700	31.00000	34.53000	39.30000	
3.2495						2.3000	31.00000	34.30000	39.30000	
3.2495		10	68 Lady Margaret Road	Wall 10	0.0	0.0	31.00000	34.20000	39.30000	
3.2495						0.30000	31.30000	34.20000	39.30000	
3.1418						0.60000	31.60000	34.20000	39.30000	
3.0342						0.90000	31.90000	34.20000	39.30000	
2.9265										



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Stage Ref.	Stage Name	Specific Building Ref.	Specific Building Name	Sub-building Name	Vertical Offset [m]	Dist. [m]	x [m]	y [m]	z [m]	δz
2.8188						1.2000	32.20000	34.20000	39.30000	
2.7112						1.5000	32.50000	34.20000	39.30000	
2.6035						1.8000	32.80000	34.20000	39.30000	
2.4958						2.1000	33.10000	34.20000	39.30000	
2.3881						2.4000	33.40000	34.20000	39.30000	
2.2805						2.7000	33.70000	34.20000	39.30000	
2.1728						3.0000	34.00000	34.20000	39.30000	
2.1728		11	68 Lady Margaret Road	Wall 11	0.0	0.0	34.00000	34.10000	39.30000	
2.1728						0.38000	34.00000	33.72000	39.30000	
2.1728						0.76000	34.00000	33.34000	39.30000	
2.1728						1.1400	34.00000	32.96000	39.30000	
2.1728						1.5200	34.00000	32.58000	39.30000	
2.1728						1.9000	34.00000	32.20000	39.30000	
2.1728						2.2800	34.00000	31.82000	39.30000	
2.1728						2.6600	34.00000	31.44000	39.30000	
2.1728						3.0400	34.00000	31.06000	39.30000	
2.1728						3.4200	34.00000	30.68000	39.30000	
2.1728						3.8000	34.00000	30.30000	39.30000	

Specific Building Damage Results - Detail

Stage Ref.	Stage Name	Specific Building Ref.	Specific Building Name	Sub-building Name	Vertical Offset [m]	Segment	Start	Length
Curvature Ratio	Deflection Horizontal	Average Tensile	Max of	Max Gradient of Vertical	Max Gradient of Vertical	Min Radius from Line for Vertical	Damage Category	
Strain	Strain	Horizontal Displacement	Displacement	Curvature	Curvature	Movement		
Calculations								
[%]	[%]	[%]	[m]	[m]	[m]	[m]	[m]	[m]
0	Base Model	1	68 Lady Margaret Road	Wall 1	0.0	1	0.0	10.100
None	57.115E-6	0.027657	0.027719	803.52E-6	-358.73E-6	139580.0	(Negligible)	
None	2	68 Lady Margaret Road	Wall 2		0.0	1	0.0	6.8990
None	151.65E-6	0.0059678	0.0060906	0.0026869	358.71E-6	35363.0	(Negligible)	
None	3	68 Lady Margaret Road	Wall 3		0.0	1	0.0	9.0900
None	0.0034588	-584.87E-6	0.0029073	185.21E-6	505.26E-6	5871.4	(Negligible)	
None	4	68 Lady Margaret Road	Wall 4		0.0	1	1.3800	5.5190
None	0.0021076	-355.66E-6	0.0018699	-50.163E-6	-641.15E-6	5239.2	(Negligible)	
None	5	68 Lady Margaret Road	Wall 5		0.0	1	0.0	9.9000
None	0.0	0.0	35.763E-9	0.0	0.0	-	(Negligible)	
None	6	68 Lady Margaret Road	Wall 6		0.0	1	0.0	1.3400
None	0.0	0.042250	0.042250	-422.32E-6	358.75E-6	562.02E+15	(Negligible)	
None	2						1.3400	0.0
None	0.0	0.0	35.763E-9	-422.32E-6	358.75E-6	13.846E+33	(Negligible)	
None	3						1.3400	1.0529
None	0.0	0.042250	0.042250	-422.32E-6	358.75E-6	1.5456E+18	(Negligible)	
None	4						2.3929	1.4210



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Stage:	Stage:	Name	Specific	Specific	Building:	Sub-building	Vertical	Offset	Segment	Start	Length
Curvature	Deflection	Average	Max	Max	Gradient	Gradient	Min	Radius	Damage	Category	
Ref.	Horizontal	Tensile	of	of	Vertical	of	from	Line	for		
None	0.0	0.042250	0.042250	-422.32E-6	358.75E-6	923.41E+15	0	(Negligible)	5	3.8138	1.5222
None	0.0	0.042250	0.042250	-422.32E-6	358.75E-6	916.29E+15	0	(Negligible)	6	5.3361	1.3629
None	0.0	0.042250	0.042250	-422.32E-6	358.75E-6	205.78E+15	0	(Negligible)	7	0.0	3.4000
None	0.0	0.0	35.763E-9	0.0	0.0	-	0	(Negligible)	1	0.0	0.60000
None	0.0	0.042250	0.042250	-422.32E-6	-358.75E-6	48.353E+15	0	(Negligible)	2	0.60000	0.0
None	235.32E-6	0.042147	0.042148	-422.32E-6	-358.75E-6	9.2019E+30	0	(Negligible)	3	0.60000	0.65821
None	0.0	0.042250	0.042250	-422.32E-6	-358.75E-6	855.68E+15	0	(Negligible)	4	1.2582	0.48358
None	0.0	0.042250	0.042250	-422.32E-6	-358.75E-6	207.14E+15	0	(Negligible)	5	1.7418	0.50204
None	0.0	0.042250	0.042250	-422.32E-6	-358.75E-6	318.52E+15	0	(Negligible)	6	2.2438	0.29866
None	0.0	0.042250	0.042250	-422.32E-6	-358.75E-6	292.85E+15	0	(Negligible)	7	2.5425	0.45750
None	0.0	0.042250	0.042250	-422.32E-6	-358.75E-6	52.727E+15	0	(Negligible)	8	0.0	2.3000
None	0.0	0.0	35.763E-9	0.0	0.0	-	0	(Negligible)	1	0.0	0.42273
None	0.0	0.042250	0.042250	-422.32E-6	358.75E-6	59.853E+15	0	(Negligible)	2	0.42273	0.32922
None	0.0	0.042250	0.042250	-422.32E-6	358.75E-6	285.56E+15	0	(Negligible)	3	0.75195	0.50260
None	0.0	0.042250	0.042250	-422.32E-6	358.75E-6	293.02E+15	0	(Negligible)	4	1.2545	0.48725
None	0.0	0.042250	0.042250	-422.32E-6	358.75E-6	205.59E+15	0	(Negligible)	5	1.7418	0.35821
None	0.0	0.042250	0.042250	-422.32E-6	358.75E-6	856.41E+15	0	(Negligible)	6	2.1000	0.30248
None	0.0	0.042250	0.042250	-422.32E-6	358.75E-6	11.094E+18	0	(Negligible)	7	2.4025	0.59752
None	0.0	0.042250	0.042250	-422.32E-6	358.75E-6	43.939E+15	0	(Negligible)	8	0.0	3.8000
None	0.0	0.0	35.763E-9	0.0	0.0	-	0	(Negligible)	1	0.0	0.42273

Tensile horizontal strains are +ve, compressive horizontal strains are -ve.

Specific Building Damage Results - Critical Values for All Segments within Each Sub-Building

Stage:	Stage:	Name	Specific	Specific	Building:	Sub-building	Vertical	Deflection	Average	Max Slope
Max	Max	Max	Gradient	of	Max	Gradient	of	Min	Radius	Damage
Ref.	Horizontal	Horizontal	Vertical	Vertical	of	of	of	Ratio	Horizontal	Category
Settlement	Tensile	Horizontal	Vertical	of	of	of	of	Ratio	Horizontal	Category
Strain	Displacement	Displacement	Curvature	Curvature	Vertical	Vertical	Vertical	Ratio	Horizontal	Category
Curve	Curve	(Hogging)	(Sagging)							
[mm]	[%]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[%]	[%]	[%]
0	Base Model	1	68 Lady Margaret Road	Wall 1	0.0	57.115E-6	0.027657	-358.73E-6		
4.6049	0.027719		803.52E-6	-358.73E-6	-	-	0	(Negligible)		
4.6344	0.0060906		68 Lady Margaret Road	Wall 2	0.0	151.65E-6	0.0059678	358.71E-6		
2.1718	0.0029073		0.0026869	358.71E-6	-	-	0	(Negligible)		
0.95235	0.0018699		68 Lady Margaret Road	Wall 3	0.0	0.0034588	-584.87E-6	505.26E-6		
4.6492	35.763E-9		185.21E-6	505.26E-6	-	-	0	(Negligible)		
4.6133	0.042250		68 Lady Margaret Road	Wall 4	0.0	0.0021076	-355.66E-6	-641.15E-6		
			-50.163E-6	-641.15E-6	-	-	0	(Negligible)		
			68 Lady Margaret Road	Wall 5	0.0	0.0	0.0	0.0		
			0.0	0.0	-	-	0	(Negligible)		
			68 Lady Margaret Road	Wall 6	0.0	0.0	0.042250	358.75E-6		
			-422.32E-6	358.75E-6	-	-	0	(Negligible)		
			68 Lady Margaret Road	Wall 7	0.0	0.0	0.0	0.0		



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Stage: Max Ref.	Stage: Max Ref.	Name	Specific Max Gradient Building:	Specific Max Gradient Building:	Specific Building: Name	Sub-building Min Radius Name	Sub-building Min Radius Name	Vertical Deflection Damage Category	Average Horizontal	Max Slope
2.1728	35.763E-9		0.0	0.0	68 Lady Margaret Road	Wall 8	-	0.0 (Negligible)	0.042250	-358.75E-6
3.2495	0.042250	8	-422.32E-6	-358.75E-6	68 Lady Margaret Road	Wall 9	-	0.0 (Negligible)	0.0	0.0
3.2495	35.763E-9	9	0.0	0.0	68 Lady Margaret Road	Wall 10	-	0.0 (Negligible)	0.042250	358.75E-6
3.2495	0.042250	10	-422.32E-6	358.75E-6	68 Lady Margaret Road	Wall 11	-	0.0 (Negligible)	0.0	0.0
2.1728	35.763E-9	11	0.0	0.0	68 Lady Margaret Road	Wall 11	-	0.0 (Negligible)		

Specific Building Damage Results - Critical Segments within Each Building

Stage: End Ref.	Stage: Curvature Ref.	Name	Specific Max Slope Building:	Specific Max Slope Building:	Specific Building: Max Name	Min	Parameter Min	Parameter Damage Category	Critical Sub-Building	Critical Start Segment
0	Base Model	0	68 Lady Margaret Road	Max Slope	0.95235	0.0018699	-	- 0 (Negligible)	Wall 4	1 1.3800
6.8990	None	641.15E-6	0.0	4.6492	35.763E-9		-	- 0 (Negligible)	Wall 5	1 0.0
9.9000	None	0.0	4.6133	0.042250			-	- 0 (Negligible)	Wall 6	1 0.0
1.3400	None	358.75E-6	-	-	-	-	-	- 0 (Negligible)		
-	-	-	-	-	-	-	-	Min Radius of Curvature (Hogging)		- -
-	-	-	-	-	-	-	-	Min Radius of Curvature (Sagging)		- -

Specific Building Damage Results - All Combined Segments

Stage: Deflection Ref.	Stage: Average Ratio Ref.	Name	Specific Max Gradient Building:	Specific Max Gradient Building:	Specific Building: Name	Sub-building Name	Vertical Deflection Damage Category	Combined Segment	Start	Length	Curvature
0	Base Model	1	68 Lady Margaret Road	Max Slope	0.95235	0.0018699	-	- 0 (Negligible)			
0.0	0.042250	0.042250	0 (Negligible)				0.0	1	0.0	6.6990	None
0.0	0.042250	0.042250	0 (Negligible)				0.0	1	0.0	3.0000	None
0.0	0.042250	0.042250	0 (Negligible)				0.0	1	0.0	3.0000	None



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Made by	Date	Checked
AT	25-Apr-2023	

Stage:	Stage:	Name	Specific	Specific Building:	Sub-building	Vertical	Combined	Start	Length	Curvature
Deflection	Average		Max	Damage Category						
Ref.	Building:	Name	Name	Name	Offset from	Segment				
Ratio	Horizontal	Tensile								
0.0	0.042250	0.042250	0	(Negligible)						
			11	68 Lady Margaret Road	Wall	11				
0.0 No combined segments for this stage, specific building and offset.										
Tensile horizontal strains are +ve, compressive horizontal strains are -ve.										
[%]	[%]	[%]				[m]		[m]		[m]



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