Problem Type

Problem Type : Tunnelling and Embedded Wall Excavations

Displacement Data

Type	Name	Direction of extrusion	Point/Line/Line for extrusion						No. of intervals across extrusion/line	Extrusion depth	No. of intervals along extrusion	Calculate	Surface type for tunnels
			First point			Second point							
			X [m]	Y [m]	Z(level) [m]	X [m]	Y [m]	Z(level) [m]		[m]			
Grid	Grid 1	Global X	0.30000	0.00000	0.00000	-	80.00000	0.00000	250	100.00000	250	No	Surface
Line	A	-	22.50000	48.10000	-0.50000	25.90000	48.10000	-0.50000	4	-	-	Yes	Surface
Line	B	-	25.90000	48.10000	-0.50000	25.90000	45.00000	-0.50000	4	-	-	Yes	Surface
Line	C	-	25.90000	45.00000	-0.50000	30.50000	44.90000	-0.50000	5	-	-	Yes	Surface
Line	D	-	30.50000	44.90000	-0.50000	30.40000	50.30000	-0.50000	6	-	-	Yes	Surface
Line	E	-	30.40000	50.30000	-0.50000	32.90000	50.30000	-0.50000	3	-	-	Yes	Surface
Line	F	-	32.90000	50.30000	-0.50000	33.00000	59.60000	-0.50000	10	-	-	Yes	Surface
Line	G	-	33.00000	59.60000	-0.50000	28.00000	59.60000	-0.50000	5	-	-	Yes	Surface
Line	H	-	28.00000	59.60000	-0.50000	28.10000	56.90000	-0.50000	3	-	-	Yes	Surface
Line	I	-	28.10000	56.90000	-0.50000	20.90000	57.00000	-0.50000	8	-	-	Yes	Surface
Line	J	-	33.00000	59.50000	-0.50000	52.50000	59.50000	-0.50000	10	-	-	Yes	Surface
Line	K	-	33.00000	52.20000	-0.50000	41.90000	52.20000	-0.50000	9	-	-	Yes	Surface
Line	L	-	37.70000	59.40000	-0.50000	37.70000	52.20000	-0.50000	8	-	-	Yes	Surface
Line	M	-	42.00000	59.50000	-1.50000	41.90000	52.20000	-1.50000	8	-	-	Yes	Surface
Line	N	-	45.50000	53.30000	-4.00000	45.50000	59.40000	-4.00000	7	-	-	Yes	Surface
Line	O	-	37.70000	52.20000	-0.68000	37.70000	47.60000	-0.68000	5	-	-	Yes	Surface
Line	P	-	45.50000	53.30000	-1.85000	45.50000	47.60000	-1.85000	6	-	-	Yes	Surface
Line	Q	-	41.90000	52.20000	-0.65000	41.90000	47.60000	-0.65000	5	-	-	Yes	Surface
Line	R	-	33.00000	50.30000	-0.50000	32.60000	42.90000	-0.50000	8	-	-	Yes	Surface
Line	S	-	54.40000	58.50000	-0.50000	73.00000	33.70000	-0.50000	16	-	-	Yes	Surface
Line	T	-	45.50000	53.30000	-0.50000	68.90000	23.70000	-0.50000	19	-	-	Yes	Surface
Line	U	-	63.00000	47.00000	-0.50000	55.10000	41.10000	-0.50000	10	-	-	Yes	Surface
Line	V	-	55.10000	41.10000	-0.50000	52.20000	38.90000	-0.50000	4	-	-	Yes	Surface
Line	W	-	52.20000	38.90000	-1.70000	52.90000	38.00000	-1.70000	2	-	-	Yes	Surface
Line	X	-	66.40000	42.50000	-0.50000	58.60000	36.70000	-0.50000	10	-	-	Yes	Surface
Line	Y	-	58.60000	36.70000	-1.40000	55.70000	34.50000	-1.40000	4	-	-	Yes	Surface
Line	Z	-	69.70000	38.10000	-0.50000	62.00000	32.40000	-0.50000	10	-	-	Yes	Surface
Line	AA	-	62.00000	32.40000	-1.40000	59.00000	30.30000	-1.40000	4	-	-	Yes	Surface
Line	AB	-	73.00000	33.70000	-0.50000	65.30000	28.20000	-0.50000	10	-	-	Yes	Surface
Line	AC	-	65.30000	28.20000	-0.50000	61.20000	25.20000	-0.50000	6	-	-	Yes	Surface
Line	AD	-	61.20000	25.20000	-1.46000	53.40000	26.20000	-1.46000	8	-	-	Yes	Surface
Line	AE	-	61.20000	25.20000	-0.50000	61.00000	21.90000	-0.50000	4	-	-	Yes	Surface
Line	AF	-	50.30000	26.50000	-1.46000	50.00000	23.30000	-1.46000	4	-	-	Yes	Surface
Line	AG	-	50.00000	23.30000	-0.50000	67.00000	21.10000	-0.50000	9	-	-	Yes	Surface
Line	AH	-	59.00000	20.70000	-0.50000	52.70000	21.40000	-0.50000	7	-	-	Yes	Surface
Line	AI	-	52.70000	21.40000	-0.50000	52.00000	16.60000	-0.50000	5	-	-	Yes	Surface
Line	AJ	-	52.00000	16.60000	-0.50000	43.10000	17.70000	-0.50000	9	-	-	Yes	Surface
Line	AK	-	43.10000	17.70000	-0.50000	43.80000	22.60000	-0.50000	5	-	-	Yes	Surface
Line	AL	-	43.80000	22.60000	-0.50000	39.10000	23.20000	-0.50000	5	-	-	Yes	Surface
Line	AM	-	39.10000	23.20000	-0.50000	38.90000	20.50000	-0.50000	3	-	-	Yes	Surface
Line	AN	-	38.90000	20.50000	-0.50000	35.60000	21.00000	-0.50000	4	-	-	Yes	Surface
Line	AO	-	35.60000	21.00000	-0.50000	35.90000	23.50000	-0.50000	3	-	-	Yes	Surface
Line	AP	-	35.90000	23.50000	-0.50000	31.50000	24.20000	-0.50000	5	-	-	Yes	Surface
Line	AQ	-	31.50000	24.20000	-0.50000	30.80000	19.30000	-0.50000	5	-	-	Yes	Surface
Line	AR	-	35.60000	12.40000	-0.50000	36.70000	20.80000	-0.50000	9	-	-	Yes	Surface
Line	AS	-	44.70000	9.30000	-0.50000	45.70000	17.40000	-0.50000	9	-	-	Yes	Surface
Line	AT	-	54.50000	10.00000	-0.50000	55.80000	21.00000	-0.50000	6	-	-	Yes	Surface
Line	AU	-	33.10000	38.60000	-2.00000	26.00000	39.00000	-2.00000	8	-	-	Yes	Surface
Line	AV	-	26.00000	39.00000	-2.00000	25.40000	29.80000	-2.00000	10	-	-	Yes	Surface
Line	AW	-	25.40000	29.80000	-2.00000	36.70000	29.10000	-2.00000	6	-	-	Yes	Surface

Vertical Ground Movement Curves

Curve Name: **No vertical ground movement**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.000][1.000,0.000,0.000][0.000,1.000,0.000][1.000,1.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = 0.0x + 0.0
Coeff. of Determination: -2147483648.E+2147483647

Curve Name: **Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.040][2.000,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -2.0E-2x + 4.0E-2
Coeff. of Determination: 1.0

Curve Name: **Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.050][0.050,0.000,0.047][0.100,0.000,0.043][0.150,0.000,0.040]
[0.200,0.000,0.037][0.250,0.000,0.034][0.300,0.000,0.031][0.350,0.000,0.028]
[0.400,0.000,0.025][0.450,0.000,0.022][0.500,0.000,0.020][0.550,0.000,0.018]
[0.600,0.000,0.016][0.650,0.000,0.014][0.700,0.000,0.012][0.750,0.000,0.010]
[0.800,0.000,0.008][0.850,0.000,0.007][0.900,0.000,0.006][0.950,0.000,0.005]
[1.000,0.000,0.004][1.050,0.000,0.003][1.100,0.000,0.003][1.150,0.000,0.002]
[1.200,0.000,0.002][1.250,0.000,0.001][1.300,0.000,0.001][1.350,0.000,0.001]
[1.400,0.000,0.001][1.450,0.000,0.000][1.500,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 4
y Order: 0
Polynomial: z = $-1.2355E-2x^4 + 3.4814E-2x^3 - 2.8885E-3x^2 - 6.5618E-2x + 4.9987E-2$
Coeff. of Determination: 1.0000

Horizontal Ground Movement Curves

Curve Name: **No horizontal ground movement**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.000][1.000,0.000,0.000][0.000,1.000,0.000][1.000,1.000,0.000]
Curve Fitting Method: Polynomial
x Order: 0
y Order: 0
Polynomial: z = 0.0

Type	Name	Direction of extrusion	Point/Line/Line for extrusion	No. of intervals across extrusion/line	Extrusion depth	No. of intervals along extrusion	Calculate Surface type for tunnels
Coeff. of Determination:		-2147483648.E+2147483647					

Curve Name: **Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(a))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.041][0.050,0.000,0.039][0.100,0.000,0.036][0.150,0.000,0.034]
[0.200,0.000,0.032][0.250,0.000,0.030][0.300,0.000,0.029][0.350,0.000,0.027]
[0.400,0.000,0.025][0.450,0.000,0.023][0.500,0.000,0.022][0.550,0.000,0.020]
[0.600,0.000,0.019][0.650,0.000,0.018][0.700,0.000,0.016][0.750,0.000,0.015]
[0.800,0.000,0.014][0.850,0.000,0.013][0.900,0.000,0.012][0.950,0.000,0.010]
[1.000,0.000,0.009][1.050,0.000,0.008][1.100,0.000,0.007][1.150,0.000,0.006]
[1.200,0.000,0.005][1.250,0.000,0.004][1.300,0.000,0.004][1.350,0.000,0.003]
[1.400,0.000,0.002][1.450,0.000,0.001][1.500,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 3
y Order: 0
Polynomial: $z = -4.2486E\text{-}3x^3 + 1.9096E\text{-}2x^2 - 4.6221E\text{-}2x + 4.0729E\text{-}2$
Coeff. of Determination: 1.0000

Curve Name: **Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.050][1.500,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: $z = -3.33E\text{-}2x + 5.00E\text{-}2$
Coeff. of Determination: 1.00

Polygonal Excavations

Excavation Name: **Wall Installation A**
Surface level [m]: 0.0
Contribution: Positive
Enabled: Yes
Surface movement curves which are selected are applied between surface and [m]: -4.4000

Corner	x [m]	y [m]	Base Level [m]	Stiffened	Previous Side d [m]	Previous Side p1 [%]	Previous Side p2* [%]	Next Side d [m]	Next Side p1 [%]	Next Side p2* [%]
1	32.700	32.500	-4.4000	No	-	-	-	-	-	-
2	36.800	32.000	-4.4000	No	-	-	-	-	-	-
3	37.300	42.900	-4.4000	No	-	-	-	-	-	-
4	33.400	42.900	-4.4000	No	-	-	-	-	-	-

Side	Corner 1 x [m]	Corner 1 y [m]	Corner 2 x [m]	Corner 2 y [m]	Ground Movement Curve Vertical	Ground Movement Curve Horizontal
1	32.700	32.500	36.800	32.000	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))
2	36.800	32.000	37.300	42.900	No vertical ground movement	No horizontal ground movement
3	37.300	42.900	33.400	42.900	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))
4	33.400	42.900	32.700	32.500	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))

Excavation Name: **Wall Installation B**
Surface level [m]: 0.0
Contribution: Positive
Enabled: Yes
Surface movement curves which are selected are applied between surface and [m]: -8.5000

Corner	x [m]	y [m]	Base Level [m]	Stiffened	Previous Side d [m]	Previous Side p1 [%]	Previous Side p2* [%]	Next Side d [m]	Next Side p1 [%]	Next Side p2* [%]
1	36.700	28.400	-8.5000	No	-	-	-	-	-	-
2	50.100	26.600	-8.5000	No	-	-	-	-	-	-
3	48.400	35.400	-8.5000	No	-	-	-	-	-	-
4	48.166	36.351	-4.4000	No	-	-	-	-	-	-
5	45.300	47.600	-4.4000	No	-	-	-	-	-	-
6	37.600	47.600	-4.4000	No	-	-	-	-	-	-
7	36.700	28.800	-4.4000	No	-	-	-	-	-	-

Side	Corner 1 x [m]	Corner 1 y [m]	Corner 2 x [m]	Corner 2 y [m]	Ground Movement Curve Vertical	Ground Movement Curve Horizontal
1	36.700	28.400	50.100	26.600	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(b))	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(a))
2	50.100	26.600	48.400	35.400	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(b))	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(a))
3	48.400	35.400	48.166	36.351	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(b))	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(a))
4	48.166	36.351	45.300	47.600	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))
5	45.300	47.600	37.600	47.600	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))
6	37.600	47.600	36.700	28.800	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))
7	36.700	28.800	36.700	28.400	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(b))	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(a))

Damage Category Strains

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

Specific Structures - Geometry

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

			Line [m]	Line [m]	Vertical Movement Calculations [m]	Sensitivity [mm]		
A		A	0.00000	3.39900	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
B		B	0.00000	3.09900	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
C		C	0.00000	4.60009	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
D		D	0.00000	5.39993	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
E		E	0.00000	2.49900	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
F		F	0.00000	9.29954	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
G		G	0.00000	4.99900	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
H		H	0.00000	2.70085	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
I		I	0.00000	7.19969	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
J		J	0.00000	19.49900	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
K		K	0.00000	8.89900	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
L		L	0.00000	7.19900	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
M		M	0.00000	7.29968	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
N		N	0.00000	6.09900	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
O		O	0.00000	4.59900	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
P	Sub #	P	0.00000	5.69900	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
Q		Q	0.00000	4.59900	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
R		R	0.00000	7.40980	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
S		S	0.00000	30.99900	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
T		T	0.00000	37.73121	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
U		U	0.00000	9.85902	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
V		V	0.00000	3.63905	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
W		W	0.00000	1.13918	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
X		X	0.00000	9.71908	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
Y		Y	0.00000	3.63905	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
Z		Z	0.00000	9.57919	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AA		AA	0.00000	3.66097	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AB		AB	0.00000	9.46156	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AC		AC	0.00000	5.07935	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AD		AD	0.00000	7.86284	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AE		AE	0.00000	3.30506	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AF		AF	0.00000	3.21303	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AG		AG	0.00000	17.14076	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AH		AH	0.00000	6.33777	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AI	Sub #	AI	0.00000	4.84977	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AJ	Sub #	AJ	0.00000	8.96672	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AK	Sub #	AK	0.00000	4.94875	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AL	Sub #	AL	0.00000	4.73714	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AM	Sub #	AM	0.00000	2.70640	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AN	Sub #	AN	0.00000	3.33666	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AO	Sub #	AO	0.00000	2.51694	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AP	Sub #	AP	0.00000	4.45433	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AQ	Sub #	AQ	0.00000	4.94875	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AR	Sub #	AR	0.00000	8.47072	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AS	Sub #	AS	0.00000	8.16049	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AT	Sub #	AT	0.00000	11.07555	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AU		AU	0.00000	7.11026	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AV		AV	0.00000	9.21854	0.0	0.10000	Burland Strain Limits	0.20000 2.6000
AW		AW	0.00000	11.32066	0.0	0.10000	Burland Strain Limits	0.20000 2.6000

Specific Structures - Bending Parameters

Structure Name	Sub-Structure Name	Height [m]	Default Properties	Hogging			Sagging		
				2nd Moment of Area (per unit width) [m³]	Distance of Bending Strain from N.A. [m]	Distance of N.A. from Edge of Beam in Tension [m]	2nd Moment of Area (per unit width) [m³]	Distance of Bending Strain from N.A. [m]	Distance of N.A. from Edge of Beam in Tension [m]
A		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
B		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
C		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
D		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
E		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
F		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
G		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
H		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
I		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
J		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
K		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
L		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
M		9.5000	Yes	285.79	9.5000	9.5000	71.448	4.7500	4.7500
N		12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
O		3.6800	Yes	16.612	3.6800	3.6800	4.1530	1.8400	1.8400
P	Sub #	4.8500	Yes	38.028	4.8500	4.8500	9.5070	2.4250	2.4250
Q		3.6500	Yes	16.209	3.6500	3.6500	4.0523	1.8250	1.8250
R		3.5000	Yes	14.292	3.5000	3.5000	3.5729	1.7500	1.7500
S		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
T		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
U		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
V		6.5000	Yes	91.542	6.5000	6.5000	22.885	3.2500	3.2500
W		7.7000	Yes	152.18	7.7000	7.7000	38.044	3.8500	3.8500
X		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
Y		7.4000	Yes	135.07	7.4000	7.4000	33.769	3.7000	3.7000
Z		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
AA		7.4000	Yes	135.07	7.4000	7.4000	33.769	3.7000	3.7000
AB		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
AC		3.5000	Yes	14.292	3.5000	3.5000	3.5729	1.7500	1.7500
AD		4.4600	Yes	29.572	4.4600	4.4600	7.3930	2.2300	2.2300
AE		3.5000	Yes	14.292	3.5000	3.5000	3.5729	1.7500	1.7500
AF		4.4600	Yes	29.572	4.4600	4.4600	7.3930	2.2300	2.2300
AG		3.5000	Yes	14.292	3.5000	3.5000	3.5729	1.7500	1.7500
AH		18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AI	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AJ	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AK	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AL	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AM	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AN	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AO	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AP	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AQ	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AR	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AS	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AT	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AU		4.6000	Yes	32.445	4.6000	4.6000	8.1113	2.3000	2.3000
AV		4.6000	Yes	32.445	4.6000	4.6000	8.1113	2.3000	2.3000
AW		4.6000	Yes	32.445	4.6000	4.6000	8.1113	2.3000	2.3000

Building Segment Combinations

Structure Name	Sub-Structure Name	Vertical Offset from Line for Vertical Movement Calculations [m]	Segment Start [m]	Length [m]	Curvature	Combined Segment

No structures have segments combined.

Warnings

Structure Name	Sub-Structure Name	Vertical Offset from Line for Vertical	Segment Start Length	Curvature	Combined Segment

1 Multiple excavations have been specified. The displacements resulting from these excavations are calculated by summing the displacements resulting from each individual excavation. No account has been taken of the interactions between excavations (e.g. overlapping zones of influence or 'shielding' of one excavation by another).

Displacement and Strain Results

Type/No.	Name	Dist.	Coordinates x	y	z	Displacements x	y	z	Horizontal dispalcement along the Line	Horizontal displacement perpendicular to Line	Angle of Line to x Axis
		[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]
A	Line 1		22.50000	48.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		0.85000	23.35000	48.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		1.7000	24.20000	48.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		2.5500	25.05000	48.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		3.4000	25.90000	48.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
B	Line 2		25.90000	48.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	270.00
		0.77500	25.90000	47.32500	-0.50000	0.0	0.0	0.0	0.0	0.0	270.00
		1.5500	25.90000	46.55000	-0.50000	0.0	0.0	0.0	0.0	0.0	270.00
		2.3250	25.90000	45.77500	-0.50000	0.0	0.0	0.0	0.0	0.0	270.00
		3.1000	25.90000	45.00000	-0.50000	0.0	0.0	0.0	0.0	0.0	270.00
C	Line 3		25.90000	45.00000	-0.50000	0.0	0.0	0.0	0.0	0.0	358.75
		0.92022	26.82000	44.98000	-0.50000	0.0	0.0	0.0	0.0	0.0	358.75
		1.8404	27.74000	44.96000	-0.50000	0.18067	-0.065755	0.029441	0.18205	-0.061812	358.75
		2.7607	28.66000	44.94000	-0.50000	0.44079	-0.18971	0.081065	0.44481	-0.18008	358.75
		3.6809	29.58000	44.92000	-0.50000	0.67150	-0.35508	0.18662	0.67905	-0.34041	358.75
		4.6011	30.50000	44.90000	-0.50000	0.84440	-0.58235	0.36915	0.85686	-0.56386	358.75
D	Line 4		30.50000	44.90000	-0.50000	0.84440	-0.58235	0.36915	-0.59788	-0.83347	91.061
		0.90015	30.48333	45.80000	-0.50000	0.58786	-0.58450	0.22561	-0.59529	-0.57694	91.061
		1.8003	30.46667	46.70000	-0.50000	0.36654	-0.47483	0.11723	-0.48154	-0.35768	91.061
		2.7005	30.45000	47.60000	-0.50000	0.18623	-0.29670	0.053505	-0.30010	-0.18070	91.061
		3.6006	30.43333	48.50000	-0.50000	0.040996	-0.077385	0.014768	-0.078131	-0.039556	91.061
		4.5008	30.41667	49.40000	-0.50000	0.0	0.0	0.0	0.0	0.0	91.061
		5.4009	30.40000	50.30000	-0.50000	0.0	0.0	0.0	0.0	0.0	91.061
E	Line 5		30.40000	50.30000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		0.83333	31.23333	50.30000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		1.6667	32.06667	50.30000	-0.50000	0.13273	-0.064767	0.023319	0.13273	-0.064767	0.0
		2.5000	32.90000	50.30000	-0.50000	0.34097	-0.19587	0.061567	0.34097	-0.19587	0.0
F	Line 6		32.90000	50.30000	-0.50000	0.34097	-0.19587	0.061567	-0.19220	-0.34305	89.384
		0.93005	32.91000	51.23000	-0.50000	0.17643	-0.13656	0.033718	-0.13465	-0.17789	89.384
		1.8601	32.92000	52.16000	-0.50000	0.015705	-0.015302	0.0043513	-0.015133	-0.015869	89.384
		2.7902	32.93000	53.09000	-0.50000	0.0	0.0	0.0	0.0	0.0	89.384
		3.7202	32.94000	54.02000	-0.50000	0.0	0.0	0.0	0.0	0.0	89.384
		4.6503	32.95000	54.95000	-0.50000	0.0	0.0	0.0	0.0	0.0	89.384
		5.5803	32.96000	55.88000	-0.50000	0.0	0.0	0.0	0.0	0.0	89.384
		6.5104	32.97000	56.81000	-0.50000	0.0	0.0	0.0	0.0	0.0	89.384
		7.4404	32.98000	57.74000	-0.50000	0.0	0.0	0.0	0.0	0.0	89.384
		8.3705	32.99000	58.67000	-0.50000	0.0	0.0	0.0	0.0	0.0	89.384
		9.3005	33.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0	0.0	89.384
G	Line 7		33.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0	0.0	180.00
		1.0000	32.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0	0.0	180.00
		2.0000	31.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0	0.0	180.00
		3.0000	30.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0	0.0	180.00
		4.0000	29.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0	0.0	180.00
		5.0000	28.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0	0.0	180.00
H	Line 8		28.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0	0.0	272.12
		0.90062	28.03333	58.70000	-0.50000	0.0	0.0	0.0	0.0	0.0	272.12
		1.8012	28.06667	57.80000	-0.50000	0.0	0.0	0.0	0.0	0.0	272.12
		2.7019	28.10000	56.90000	-0.50000	0.0	0.0	0.0	0.0	0.0	272.12
I	Line 9		28.10000	56.90000	-0.50000	0.0	0.0	0.0	0.0	0.0	179.20
		0.90009	27.20000	56.91250	-0.50000	0.0	0.0	0.0	0.0	0.0	179.20
		1.8002	26.30000	56.92500	-0.50000	0.0	0.0	0.0	0.0	0.0	179.20
		2.7003	25.40000	56.93750	-0.50000	0.0	0.0	0.0	0.0	0.0	179.20
		3.6003	24.50000	56.95000	-0.50000	0.0	0.0	0.0	0.0	0.0	179.20
		4.5004	23.60000	56.96250	-0.50000	0.0	0.0	0.0	0.0	0.0	179.20
		5.4005	22.70000	56.97500	-0.50000	0.0	0.0	0.0	0.0	0.0	179.20
		6.3006	21.80000	56.98750	-0.50000	0.0	0.0	0.0	0.0	0.0	179.20
		7.2007	20.90000	57.00000	-0.50000	0.0	0.0	0.0	0.0	0.0	179.20
J	Line 10		33.00000	59.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		1.9500	34.95000	59.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		3.9000	36.90000	59.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		5.8500	38.85000	59.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		7.8000	40.80000	59.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		9.7500	42.75000	59.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		11.700	44.70000	59.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		13.650	46.65000	59.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		15.600	48.60000	59.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		17.550	50.55000	59.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
		19.500	52.50000	59.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	0.0
K	Line 11		33.00000	52.20000	-0.50000	0.022302	-0.022302	0.0059792	0.022302	-0.022302	0.0
		0.98889	33.98889	52.20000	-0.50000	0.15477	-0.19715	0.037639	0.15477	-0.19715	0.0
		1.9778	34.97778	52.20000	-0.50000	0.21544	-0.37794	0.070379	0.21544	-0.37794	0.0
		2.9667	35.96667	52.20000	-0.50000	0.19169	-0.53985	0.10803	0.19169	-0.53985	0.0
		3.9556	36.95556	52.20000	-0.50000	0.090417	-0.64539	0.13685	0.090417	-0.64539	0.0
		4.9444	37.94444	52.20000	-0.50000	0.0	-0.66667	0.14301	0.0	-0.66667	0.0
		5.9333	38.93333	52.20000	-0.50000	0.0	-0.66667	0.14301	0.0	-0.66667	0.0
		6.9222	39.92222	52.20000	-0.50000	0.0	-0.66667	0.14301	0.0	-0.66667	0.0
		7.9111	40.91111	52.20000	-0.50000	0.0	-0.66667	0.14301	0.0	-0.66667	0.0
		8.9000	41.90000	52.20000	-0.50000	0.0	-0.66667	0.14301	0.0	-0.66667	0.0
L	Line 12		37.70000	59.40000	-0.50000	0.0	0.0	0.0	0.0	0.0	270.00
		0.90000	37.70000	58.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	270.00
		1.8000	37.70000	57.60000	-0.50000	0.0	0.0	0.0	0.0	0.0	270.00
		2.7000	37.70000	56.70000	-0.50000	0.0	0.0	0.0	0.0	0.0	270.00
		3.6000	37.70000	55.80000	-0.50000	0.0	0.0	0.0	0.0	0.0	270.00
		4.5000	37.70000	54.90000	-0.50000	0.0	0.0	0.0	0.0	0.0	270.00
		5.4000	37.70000	54.00000	-0.50000	0.0	-0.066667	0.011612	0.066667	0.0	270.00
		6.3000	37.70000	53.10000	-0.50000	0.0	-0.36667	0.056472	0.36667	0.0	270.00
		7.2000	37.70000	52.20000	-0.50000	0.0	-0.66667	0.14301	0.66667	0.0	270.00
M	Line 13		42.00000	59.50000	-1.50000	0.0	0.0	0.0	0.0	0.0	269.22
		0.91259	41.98750	58.58750	-1.50000	0.0	0.0	0.0	0.0	0.0	269.22
		1.8252	41.97500	57.67500	-1.50000	0.0	0.0	0.0	0.0	0.0	269.22
		2.7378	41.96250	56.76250	-1.50000	0.0	0.0	0.0	0.0	0.0	269.22
		3.6503	41.95000	55.85000	-1.50000	0.0	0.0	0.0	0.0	0.0	269.22
		4.5629	41.93750	54.93750	-1.50000	0.0	0.0	0.0	0.0	0.0	269.22
		5.4755	41.92500	54.02500	-1.50000	0.0	-0.058333	0.0103116	0.058328	799.01E-6	269.22
		6.3881	41.91250	53.11250	-1.50000	0.0	-0.36250	0.055705	0.36247	0.0049653	269.22
		7.3007	41.90000	52.20000	-1.50000	0.0	-0.66667	0.14301	0.66660	0.0091316	269.22
N	Line 14		45.50000	53.30000	-4.00000	-0.010479	-0.29865	0.044906	-0.29865	0.010479	90.000
		0.87143	45.50000	54.17143	-4.00000	-258.87E-6	-0.0085056	0.0020068	-0.0085056	258.87E-6	90.000
		1.7429	45.50000	55.04286	-4.00000	0.0	0.0	0.0	0.0	0.0	90.000
		2.6143	45.50000	55.91429	-4.00000	0.0	0.0	0.0	0.0	0.0	90.000
		3.4857	45.50000	56.78571	-4.00000	0.0	0.0	0.0	0.0	0.0	90.000
		4.3571	45.50000	57.65714	-4.00000	0.0	0.0	0.0	0.0	0.0	90.000
		5.2286	45.50000	58.52857	-4.00000	0.0	0.0	0.0	0.0	0.0	90.000
		6.1000	45.50000	59.40000	-4.00000	0.0	0.0	0.0	0.0	0.0	90.000
O	Line 15		37.70000	52.20000	-0.68000	0.0	-0.66667	0.14301	0.66667	0.0	270.00
		0.92000	37.70000	51.28000	-0.68000	0.0	-0.97333	0.32595	0.97333	0.0	270.00
		1.8400	37.70000	50.36000	-0.68000	0.0	-1.2800	0.63226	1.2800	0.0	270.00
		2.7600	37.70000	49.44000	-0.68000	-935.53E-6	-1.6020	1.0684	1.6020	-935.53E-6	270.00
		3.6800	37.70000	48.52000	-0.68000	-0.021851	-2.2003	1.6496	2.2003	-0.021851	270.00
		4.6000	37.70000	47.60000	-0.68000	-0.050431	-2.7926	2.3202	2.7926	-0.050431	270.00
P	Line 16		45.50000	53.30000	-1.85000	-0.010479	-0.29865	0.044906	0.29865	-0.010479	270.00
		0.95000	45.50000	52.35000	-1.85000	-0.025883	-0.61472	0.12279	0.61472	-0.025883	270.00

Name	Type/No. Dist.	Coordinates x	y	z	Displacements x	y	z	Horizontal displacement	Horizontal displacement	Angle of Line to x Axis
	1.9000	45.50000	51.40000	-1.85000	-0.048963	-0.93029	0.29415	0.93029	-0.048963	270.00
	2.8500	45.50000	50.45000	-1.85000	-0.087341	-1.2446	0.59384	1.2446	-0.087341	270.00
	3.8000	45.50000	49.50000	-1.85000	-0.16364	-1.5546	1.0279	1.5546	-0.16364	270.00
	4.7500	45.50000	48.55000	-1.85000	-0.38656	-1.8361	1.5714	1.8361	-0.38656	270.00
	5.7000	45.50000	47.60000	-1.85000	-2.0693	-0.52721	2.0721	0.52721	-2.0693	270.00
Q	Line 17	41.90000	52.20000	-0.65000	0.0	-0.66667	0.14301	0.66667	0.0	270.00
	0.92000	41.90000	51.28000	-0.65000	0.0	-0.97333	0.32595	0.97333	0.0	270.00
	1.8400	41.90000	50.36000	-0.65000	0.0	-1.2800	0.63226	1.2800	0.0	270.00
	2.7600	41.90000	49.44000	-0.65000	0.0	-1.5867	1.0652	1.5867	0.0	270.00
	3.6800	41.90000	48.52000	-0.65000	0.0	-1.8933	1.6031	1.8933	0.0	270.00
	4.6000	41.90000	47.60000	-0.65000	-0.0028569	-2.2029	2.2004	2.2029	-0.0028569	270.00
R	Line 18	33.00000	50.30000	-0.50000	0.36398	-0.21364	0.067532	0.19368	0.37498	266.91
	0.92635	32.95000	49.37500	-0.50000	0.50788	-0.22927	0.10476	0.20153	0.51951	266.91
	1.8527	32.90000	48.45000	-0.50000	0.62895	-0.44931	0.17225	0.41471	0.65228	266.91
	2.7791	32.85000	47.52500	-0.50000	0.69542	-0.67257	0.25957	0.63406	0.73071	266.91
	3.7054	32.80000	46.60000	-0.50000	0.76922	-0.96784	0.43204	0.92491	0.82034	266.91
	4.6318	32.75000	45.67500	-0.50000	0.90023	-1.2465	0.71954	1.1961	0.96620	266.91
	5.5581	32.70000	44.75000	-0.50000	1.1585	-1.4703	1.1151	1.4056	1.2362	266.91
	6.4845	32.65000	43.82500	-0.50000	1.7469	-1.4298	1.5578	1.3334	1.8215	266.91
	7.4108	32.60000	42.90000	-0.50000	2.5390	-0.15905	1.8010	0.021775	2.5439	266.91
S	Line 19	54.40000	58.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	1.9375	55.56250	56.95000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	3.8750	56.72500	55.40000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	5.8125	57.88750	53.85000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	7.7500	59.05000	52.30000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	9.6875	60.21250	50.75000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	11.625	61.37500	49.20000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	13.562	62.53750	47.65000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	15.500	63.70000	46.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	17.438	64.86250	44.55000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	19.375	66.02500	43.00000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	21.313	67.18750	41.45000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	23.250	68.35000	39.90000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	25.188	69.51250	38.35000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	27.125	70.67500	36.80000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	29.063	71.83750	35.25000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	31.000	73.00000	33.70000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
T	Line 20	45.50000	53.30000	-0.50000	-0.010479	-0.29865	0.044906	0.22778	-0.19343	308.33
	1.9859	46.73158	51.74211	-0.50000	-0.24145	-0.69861	0.17621	0.39831	-0.62266	308.33
	3.9718	47.96316	50.18421	-0.50000	-0.69114	-0.67065	0.31790	0.097493	-0.95810	308.33
	5.9577	49.19474	48.62632	-0.50000	-0.82913	-0.21849	0.24328	-0.34280	-0.78593	308.33
	7.9436	50.42632	47.06842	-0.50000	-0.56968	-0.14514	0.11307	-0.23943	-0.53691	308.33
	9.9295	51.65789	45.51053	-0.50000	-0.30842	-0.078578	0.048035	-0.12962	-0.29068	308.33
	11.915	52.88947	43.95263	-0.50000	-0.047155	-0.012014	0.0087825	-0.019819	-0.044443	308.33
	13.901	54.12105	42.39474	-0.50000	0.0	0.0	0.0	0.0	0.0	308.33
	15.887	55.35263	40.83684	-0.50000	0.0	0.0	0.0	0.0	0.0	308.33
	17.873	56.58421	39.27895	-0.50000	0.0	0.0	0.0	0.0	0.0	308.33
	19.859	57.81579	37.72105	-0.50000	-0.53491	-0.13160	1.4532	-0.22849	-0.50124	308.33
	21.845	59.04737	36.16316	-0.50000	-0.37959	-0.073330	1.2802	-0.17788	-0.34326	308.33
	23.831	60.27895	34.60526	-0.50000	-0.21702	-0.041924	1.0975	-0.10170	-0.19624	308.33
	25.817	61.51053	33.04737	-0.50000	-0.057977	-0.011200	0.91474	-0.027169	-0.052428	308.33
	27.803	62.74211	31.48947	-0.50000	0.0	0.0	0.73200	0.0	0.0	308.33
	29.789	63.97368	29.93158	-0.50000	0.0	0.0	0.54925	0.0	0.0	308.33
	31.774	65.20526	28.37368	-0.50000	0.0	0.0	0.35819	0.0	0.0	308.33
	33.760	66.43684	26.81579	-0.50000	0.0	0.0	0.13235	0.0	0.0	308.33
	35.746	67.66842	25.25789	-0.50000	0.0	0.0	0.0	0.0	0.0	308.33
	37.732	68.90000	23.70000	-0.50000	0.0	0.0	0.0	0.0	0.0	308.33
U	Line 21	63.00000	47.00000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.75
	0.98600	62.21000	46.41000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.75
	1.9720	61.42000	45.82000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.75
	2.9580	60.63000	45.23000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.75
	3.9440	59.84000	44.64000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.75
	4.9300	59.05000	44.05000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.75
	5.9160	58.26000	43.46000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.75
	6.9020	57.47000	42.87000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.75
	7.8880	56.68000	42.28000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.75
	8.8740	55.89000	41.69000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.75
	9.8600	55.10000	41.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.75
V	Line 22	55.10000	41.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	217.18
	0.91001	54.37500	40.55000	-0.50000	0.0	0.0	0.0	0.0	0.0	217.18
	1.8200	53.65000	40.00000	-0.50000	-0.12432	-0.031675	0.020621	0.11819	-0.049903	217.18
	2.7300	52.92500	39.45000	-0.50000	-0.39512	-0.10067	0.064512	0.37563	-0.15860	217.18
	3.6401	52.20000	38.90000	-0.50000	-0.66592	-0.16966	0.15183	0.63307	-0.26730	217.18
W	Line 23	52.20000	38.90000	-1.70000	-0.66592	-0.16966	0.15183	-0.27491	-0.62981	307.87
	0.57009	52.55000	38.45000	-1.70000	-0.59225	-0.15089	0.12129	-0.24450	-0.56013	307.87
	1.1402	52.90000	38.00000	-1.70000	-0.51858	-0.13212	0.096244	-0.21409	-0.49046	307.87
X	Line 24	66.40000	42.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.63
	0.97201	65.62000	41.92000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.63
	1.9440	64.84000	41.34000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.63
	2.9160	64.06000	40.76000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.63
	3.8880	63.28000	40.18000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.63
	4.8600	62.50000	39.60000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.63
	5.8320	61.72000	39.02000	-0.50000	0.0	0.0	0.082433	0.0	0.0	216.63
	6.8041	60.94000	38.44000	-0.50000	0.0	0.0	0.81936	0.0	0.0	216.63
	7.7761	60.16000	37.86000	-0.50000	-0.12898	-0.026980	0.99709	0.11960	-0.055311	216.63
	8.7481	59.38000	37.28000	-0.50000	-0.28321	-0.054712	1.1725	0.25991	-0.12509	216.63
	9.7201	58.60000	36.70000	-0.50000	-0.44105	-0.085202	1.3477	0.40476	-0.19480	216.63
Y	Line 25	58.60000	36.70000	-1.40000	-0.44105	-0.085202	1.3477	0.40287	-0.19868	217.18
	0.91001	57.87500	36.15000	-1.40000	-0.59399	-0.11475	1.5109	0.54258	-0.26758	217.18
	1.8200	57.15000	35.60000	-1.40000	-0.75453	-0.14576	1.6742	0.68922	-0.33990	217.18
	2.7300	56.42500	35.05000	-1.40000	-0.92454	-0.17860	1.8374	0.84452	-0.41649	217.18
	3.6401	55.70000	34.50000	-1.40000	-1.1059	-0.21364	2.0006	1.0102	-0.49819	217.18
Z	Line 26	69.70000	38.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.51
	0.95802	68.93000	37.53000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.51
	1.9160	68.16000	36.96000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.51
	2.8741	67.39000	36.39000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.51
	3.8321	66.62000	35.82000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.51
	4.7901	65.85000	35.25000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.51
	5.7481	65.08000	34.68000	-0.50000	0.0	0.0	0.15187	0.0	0.0	216.51
	6.7061	64.31000	34.11000	-0.50000	0.0	0.0	0.32470	0.0	0.0	216.51
	7.6642	63.54000	33.54000	-0.50000	0.0	0.0	0.49753	0.0	0.0	216.51
	8.6222	62.77000	32.97000	-0.50000	0.0	0.0	0.67035	0.0	0.0	216.51
	9.5802	62.00000	32.40000	-0.50000	0.0	0.0	0.84318	0.0	0.0	216.51
AA	Line 27	62.00000	32.40000	-1.40000	0.0	0.0	0.84318	0.0	0.0	214.99
	0.91549	61.25000	31.87500	-1.40000	-0.14093	-0.027224	1.0104	0.13106	-0.058513	214.99
	1.8310	60.50000	31.35000	-1.40000	-0.28767	-0.055572	1.1776	0.26753	-0.11944	214.99
	2.7465	59.75000	30.82500	-1.40000	-0.43834	-0.084678	1.3448	0.40766	-0.18200	214.99
	3.6620	59.00000	30.30000	-1.40000	-0.59496	-0.11493	1.5120	0.55332	-0.24703	214.99
AB	Line 28	73.00000	33.70000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	0.94626	72.23000	33.15000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	1.8925	71.46000	32.60000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	2.8388	70.69000	32.05000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	3.7850	69.92000	31.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	4.7313	69.15000	30.95000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	5.6775	68.38000	30.40000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	6.6238	67.61000	29.85000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	7.5700	66.84000	29.30000	-0.50000	0.0	0.0	0.0087312	0.0	0.0	215.54
	8.5163	66.07000	28.75000	-0.50000	0.0	0.0	0.17719	0.0	0.0	215.54
	9.4626	65.30000	28.20000	-0.50000	0.0	0.0	0.34320	0.0	0.0	215.54
AC	Line 29	65.30000	28.20000	-0.50000	0.0	0.0	0.34320	0.0	0.0	216.19
	0.84673	64.61667	27.70000	-0.50000	0.0	0.0	0.48834	0.0	0.0	216.19
	1.6935	63.93333	27.20000	-0.50000	0.0	0.0	0.63073	0.0	0.0	216.19
	2.5402	63.25000	26.70000	-0.50000	0.0	0.0	0.76992	0.0	0.0	216.19
	3.3869	62.56667	26.20000	-0.50000	-0.050776	0.0016292	0.90538	0.040016	-0.031299	216.19
	4.2336	61.88333	25.70000	-0.50000	-0.16619	0.012694	1.0365	0.12663	-0.10838	216.19
	5.0804	61.20000	25.20000	-0.50000	-0.27711	0.034951	1.1624	0.20300	-0.19184	216.19
AD	Line 30	61.20000	25.20000	-1.46000	-0.27711	0.034951	1.1624	0.27930	571.43E-6	172.69
	0.98298	60.22500	25.32500	-1.46000	-0.45617	0.057443	1.3590	0.45977	0.0010313	172.69
	1.9660	59.25000	25.45000	-1.46000	-0.64379	0.080914	1.5556	0.64885	0.0016105	172.69
	2.9489	58.27500	25.57500	-1.46000	-0.84331	0.10574	1.7522	0.84991	0.0023612	172.69

Type/No.		Coordinates			Displacements					Angle of Line to x Axis
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	
	3.9319	57.30000	25.70000	-1.46000	-1.0581	0.13226	1.9488	1.0663	0.0033637	172.69
	4.9149	56.32500	25.82500	-1.46000	-1.2914	0.16078	2.1454	1.3014	0.0047485	172.69
	5.8979	55.35000	25.95000	-1.46000	-1.5467	0.19149	2.3420	1.5585	0.0067433	172.69
	6.8809	54.37500	26.07500	-1.46000	-1.8272	0.22439	2.5386	1.8409	0.0097834	172.69
	7.8638	53.40000	26.20000	-1.46000	-2.1365	0.25897	2.7352	2.1521	0.014819	172.69
AE	Line 31	61.20000	25.20000	-0.50000	-0.27711	0.034951	1.1624	-0.018123	-0.27872	266.53
	0.82651	61.15000	24.37500	-0.50000	-0.25900	0.052152	1.1456	-0.036388	-0.26168	266.53
	1.6530	61.10000	23.55000	-0.50000	-0.22982	0.063722	1.1170	-0.049703	-0.23325	266.53
	2.4795	61.05000	22.72500	-0.50000	-0.19105	0.067611	1.0769	-0.055929	-0.19479	266.53
	3.3061	61.00000	21.90000	-0.50000	-0.14450	0.062308	1.0260	-0.053452	-0.14801	266.53
AF	Line 32	50.30000	26.50000	-1.46000	-3.0050	1.5025	3.3553	-1.2155	-3.1321	264.64
	0.80351	50.22500	25.70000	-1.46000	-0.42097	3.0310	3.2183	-2.9785	-0.70204	264.64
	1.6070	50.15000	24.90000	-1.46000	-0.080493	2.7368	3.0599	-2.7173	-0.33559	264.64
	2.4105	50.07500	24.10000	-1.46000	0.024375	2.4375	2.9000	-2.4291	-0.20325	264.64
	3.2140	50.00000	23.30000	-1.46000	0.065415	2.1587	2.7397	-2.1554	-0.13636	264.64
AG	Line 33	50.00000	23.30000	-0.50000	0.065415	2.1587	2.7397	-0.21217	2.1492	352.63
	1.9046	51.88889	23.05556	-0.50000	-0.87598	1.7356	2.6059	-1.0915	1.6089	352.63
	3.8093	53.77778	22.81111	-0.50000	-1.0873	1.1202	2.3439	-1.2221	0.97138	352.63
	5.7139	55.66667	22.56667	-0.50000	-0.93546	0.67779	2.0251	-1.0147	0.55212	352.63
	7.6186	57.55556	22.32222	-0.50000	-0.67254	0.38588	1.6809	-0.71650	0.29638	352.63
	9.5232	59.44444	22.07778	-0.50000	-0.38425	0.18595	1.3238	-0.40493	0.13510	352.63
	11.428	61.33333	21.83333	-0.50000	-0.090654	0.038467	0.95944	-0.094841	0.026515	352.63
	13.332	63.22222	21.58889	-0.50000	0.0	0.0	0.59070	0.0	0.0	352.63
	15.237	65.11111	21.34444	-0.50000	0.0	0.0	0.21909	0.0	0.0	352.63
	17.142	67.00000	21.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	352.63
AH	Line 34	59.00000	20.70000	-0.50000	-0.31010	0.20557	1.2644	0.33090	-0.17007	173.66
	0.90554	58.10000	20.80000	-0.50000	-0.42174	0.30576	1.4237	0.45292	-0.25732	173.66
	1.8111	57.20000	20.90000	-0.50000	-0.52410	0.42076	1.5790	0.56736	-0.36031	173.66
	2.7166	56.30000	21.00000	-0.50000	-0.61263	0.55334	1.7291	0.66999	-0.48231	173.66
	3.6222	55.40000	21.10000	-0.50000	-0.68014	0.70580	1.8724	0.75392	-0.62638	173.66
	4.5277	54.50000	21.20000	-0.50000	-0.71610	0.87885	2.0069	0.80877	-0.79440	173.66
	5.4332	53.60000	21.30000	-0.50000	-0.70639	1.0697	2.1297	0.82020	-0.98513	173.66
	6.3388	52.70000	21.40000	-0.50000	-0.63439	1.2688	2.2372	0.77063	-1.1910	173.66
AI	Line 35	52.70000	21.40000	-0.50000	-0.63439	1.2688	2.2372	-1.1640	-0.81085	261.70
	0.97015	52.56000	20.44000	-0.50000	-0.44983	1.1264	2.0734	-1.0497	-0.60767	261.70
	1.9403	52.42000	19.48000	-0.50000	-0.31492	0.96371	1.9023	-0.90831	-0.44980	261.70
	2.9105	52.28000	18.52000	-0.50000	-0.21426	0.79414	1.7262	-0.75491	-0.32662	261.70
	3.8806	52.14000	17.56000	-0.50000	-0.14086	0.62420	1.5465	-0.59734	-0.22946	261.70
	4.8508	52.00000	16.60000	-0.50000	-0.086733	0.45649	1.3642	-0.43919	-0.15170	261.70
AJ	Line 36	52.00000	16.60000	-0.50000	-0.086733	0.45649	1.3642	0.14207	-0.44240	172.95
	0.99641	51.01111	16.72222	-0.50000	-0.047174	0.51143	1.4161	0.10955	-0.50178	172.95
	1.9928	50.02222	16.84444	-0.50000	0.0043440	0.54487	1.4488	0.062523	-0.54129	172.95
	2.9892	49.03333	16.96667	-0.50000	0.061313	0.55373	1.4616	0.0070721	-0.55707	172.95
	3.9857	48.04444	17.08889	-0.50000	0.073968	0.55065	1.4600	-0.0058654	-0.55556	172.95
	4.9821	47.05556	17.21111	-0.50000	0.073698	0.54864	1.4579	-0.0058440	-0.55354	172.95
	5.9785	46.06667	17.33333	-0.50000	0.073429	0.54664	1.4558	-0.0058227	-0.55152	172.95
	6.9749	45.07778	17.45556	-0.50000	0.073160	0.54464	1.4537	-0.0058014	-0.54950	172.95
	7.9713	44.08889	17.57778	-0.50000	0.072891	0.54264	1.4516	-0.0057801	-0.54748	172.95
	8.9677	43.10000	17.70000	-0.50000	0.072623	0.54064	1.4495	-0.0057587	-0.54546	172.95
AK	Line 37	43.10000	17.70000	-0.50000	0.072623	0.54064	1.4495	0.54547	0.0045646	81.870
	0.98995	43.24000	18.68000	-0.50000	0.098663	0.73449	1.6474	0.74106	0.0062013	81.870
	1.9799	43.38000	19.66000	-0.50000	0.12653	0.94195	1.8454	0.95038	0.0079530	81.870
	2.9698	43.52000	20.64000	-0.50000	0.15668	1.1664	2.0434	1.1769	0.0098482	81.870
	3.9598	43.66000	21.62000	-0.50000	0.18958	1.4113	2.2414	1.4239	0.011916	81.870
	4.9497	43.80000	22.60000	-0.50000	0.22566	1.6799	2.4394	1.6950	0.014184	81.870
AL	Line 38	43.80000	22.60000	-0.50000	0.22566	1.6799	2.4394	-0.011113	-1.6950	172.72
	0.94763	42.86000	22.72000	-0.50000	0.22542	1.6782	2.4381	-0.011101	-1.6932	172.72
	1.8953	41.92000	22.84000	-0.50000	0.22519	1.6764	2.4369	-0.011090	-1.6914	172.72
	2.8429	40.98000	22.96000	-0.50000	0.22495	1.6746	2.4356	-0.011078	-1.6896	172.72
	3.7905	40.04000	23.08000	-0.50000	0.22471	1.6729	2.4344	-0.011066	-1.6879	172.72
	4.7381	39.10000	23.20000	-0.50000	0.22448	1.6711	2.4332	-0.011055	-1.6861	172.72
AM	Line 39	39.10000	23.20000	-0.50000	0.22448	1.6711	2.4332	-1.6831	0.10042	265.76
	0.90247	39.03333	22.30000	-0.50000	0.19160	1.4263	2.2530	-1.4366	0.085708	265.76
	1.8049	38.96667	21.40000	-0.50000	0.16138	1.2014	2.0728	-1.2101	0.072193	265.76
	2.7074	38.90000	20.50000	-0.50000	0.13350	0.99382	1.8926	-1.0010	0.059718	265.76
AN	Line 40	38.90000	20.50000	-0.50000	0.13350	0.99382	1.8926	0.016888	-1.0026	171.38
	0.83442	38.07500	20.62500	-0.50000	0.13392	0.99694	1.8955	0.016941	-1.0057	171.38
	1.6688	37.25000	20.75000	-0.50000	0.13434	1.0001	1.8983	0.016994	-1.0089	171.38
	2.5032	36.42500	20.87500	-0.50000	0.13476	1.0032	1.9011	0.017047	-1.0121	171.38
	3.3377	35.60000	21.00000	-0.50000	0.14927	1.0042	1.9037	0.0028459	-1.0152	171.38
AO	Line 41	35.60000	21.00000	-0.50000	0.14927	1.0042	1.9037	1.0148	-0.028563	83.157
	0.83931	35.70000	21.83333	-0.50000	0.18226	1.1969	2.0715	1.2100	-0.038364	83.157
	1.6786	35.80000	22.66667	-0.50000	0.22040	1.4040	2.2393	1.4203	-0.051546	83.157
	2.5179	35.90000	23.50000	-0.50000	0.26570	1.6274	2.4070	1.6475	-0.069908	83.157
AP	Line 42	35.90000	23.50000	-0.50000	0.26570	1.6274	2.4070	-0.0067090	-1.6489	170.96
	0.89107	35.02000	23.64000	-0.50000	0.54104	1.5329	2.3904	-0.29347	-1.5989	170.96
	1.7821	34.14000	23.78000	-0.50000	0.75645	1.3652	2.3436	-0.53257	-1.4670	170.96
	2.6732	33.26000	23.92000	-0.50000	0.89039	1.1596	2.2703	-0.69715	-1.2851	170.96
	3.5643	32.38000	24.06000	-0.50000	0.94460	0.94898	2.1753	-0.78377	-1.0856	170.96
	4.4553	31.50000	24.20000	-0.50000	0.93395	0.75434	2.0631	-0.80383	-0.89171	170.96
AQ	Line 43	31.50000	24.20000	-0.50000	0.93395	0.75434	2.0631	-0.87884	0.81788	261.87
	0.98995	31.36000	23.22000	-0.50000	0.73542	0.71338	1.9121	-0.81022	0.62714	261.87
	1.9799	31.22000	22.24000	-0.50000	0.56410	0.64410	1.7510	-0.70750	0.46876	261.87
	2.9698	31.08000	21.26000	-0.50000	0.41797	0.53102	1.5827	-0.58480	0.33868	261.87
	3.9598	30.94000	20.28000	-0.50000	0.29322	0.41337	1.4089	-0.45068	0.23182	261.87
	4.9497	30.80000	19.30000	-0.50000	0.18575	0.28650	1.2309	-0.30989	0.14337	261.87
AR	Line 44	35.60000	12.40000	-0.50000	0.0	0.0	0.19920	0.0	0.0	82.539
	0.94130	35.72222	13.33333	-0.50000	0.0	0.0	0.38746	0.0	0.0	82.539
	1.8826	35.84444	14.26667	-0.50000	0.0	0.0	0.57572	0.0	0.0	82.539
	2.8239	35.96667	15.20000	-0.50000	0.0	0.0	0.76397	0.0	0.0	82.539
	3.7652	36.08889	16.13333	-0.50000	0.012264	0.091299	0.95223	0.092119	-305.62E-6	82.539
	4.7065	36.21111	17.06667	-0.50000	0.034558	0.25726	1.1405	0.25957	-861.16E-6	82.539
	5.6478	36.33333	18.00000	-0.50000	0.057449	0.42768	1.3288	0.43152	-0.0014316	82.539
	6.5891	36.45556	18.93333	-0.50000	0.081331	0.60546	1.5170	0.61090	-0.0020267	82.539
	7.5304	36.57778	19.86667	-0.50000	0.10659	0.79353	1.7053	0.80065	-0.0026563	82.539
	8.4717	36.70000	20.80000	-0.50000	0.13363	0.99480	1.8935	1.0037	-0.0033300	82.539
AS	Line 45	44.70000	9.30000	-0.50000	0.0	0.0	0.0	0.0	0.0	82.962
	0.90683	44.81111	10.20000	-0.50000	0.0	0.0	0.0083731	0.0	0.0	82.962
	1.8137	44.92222	11.10000	-0.50000	0.0	0.0	0.18973	0.0	0.0	82.962
	2.7205	45.03333	12.00000	-0.50000	0.0	0.0	0.37109	0.0	0.0	82.962
	3.6273	45.14444	12.90000	-0.50000	0.0	0.0	0.55244	0.0	0.0	82.962
	4.5342	45.25556	13.80000	-0.50000	0.0	0.0	0.73380	0.0	0.0	82.962
	5.4410	45.36667	14.70000	-0.50000	0.0079098	0.058884	0.91515	0.059410	-635.34E-6	82.962
	6.3478	45.47778	15.60000	-0.50000	0.029310	0.21820	1.0965	0.22014	-0.0023543	82.962
	7.2547	45.58889	16.50000	-0.50000	0.051180	0.38101	1.2779	0.38441	-0.0041110	82.962
	8.1615	45.70000	17.40000	-0.50000	0.073871	0.54993	1.4592	0.55484	-0.0059335	82.962
AT	Line 46	54.50000	10.00000	-0.50000	0.0	0.0	0.0	0.0	0.0	83.260
	1.8461	54.71667	11.83333	-0.50000	0.0	0.0	0.30570	0.0	0.0	83.260
	3.6922	54.93333	13.66667	-0.50000	0.0	0.0	0.63861	0.0	0.0	83.260
	5.5383	55.15000	15.50000	-0.50000	-0.041370	0.090931	0.96105	0.085447	0.051756	83.260
	7.3844	55.36667	17.33333	-0.50000	-0.18559	0.32654	1.2683	0.30250	0.22263	83.260
	9.2305	55.58333	19.16667	-0.50000	-0.38342	0.51978	1.5526	0.47118	0.44178	83.260
	11.077	55.80000	21.00000	-0.50000	-0.64416	0.63285	1.8019	0.55288	0.71398	83.260
AU	Line 47	33.10000	38.60000	-2.00000	3.0357	-0.18792	2.4280	-3.0415	0.016867	176.78
	0.88891	32.21250	38.65000	-2.00000	2.4442	-0.15386	1.7165	-2.4489	0.016131	176.78
	1.7778	31.32500	38.70000	-2.00000	1.8526	-0.11979	1.1309	-1.8564	0.015394	176.78
	2.6667	30.43750	38.75000	-2.00000	1.3047	-0.087815	0.66622	-1.3075	0.014289	176.78
	3.5556	29.55000	38.80000	-2.00000	1.0091	-0.067918	0.35691	-1.0113	0.011052	176.78
	4.4445	28.66250	38.85000	-2.00000	0.71344	-0.048020	0.16454	-0.71502	0.0078139	176.78
	5.3334	27.77500	38.90000	-2.00000	0.41783	-0.028123	0.066830	-0.41875	0.0045762	176.78
	6.2224	26.88750	38.95000	-2.00000	0.12221	-0.0082258	0.019805	-0.12248	0.0013385	176.78
	7.1113	26.00000	39.00000	-2.00000	0.0	0.0	0.0	0.0	0.0	176.78
AV	Line 48	26.00000	39.00000	-2.00000	0.0	0.0	0.0	0.0	0.0	266.27
	0.92195	25.94000	38.08000	-2.00000	0.0	0.0	0.0	0.0	0.0	266.27
	1.8439	25.88000	37.16000	-2.00000	0.0	0.0	0.0	0.0	0.0	266.27
	2.7659	25.82000	36.24000	-2.00000	0.0	0.0	0.0	0.0	0.0	266.27
	3.6878	25.76000	35.32000	-2.00000	0.0	0.0	0.0	0.0	0.0	266.27
	4.6098	25.70000	34.40000	-2.00000	0.0	0.0	0.0	0.0	0.0	266.27
	5.5317	25.64000	33.48000	-2.00000	0.0	0.0	0.0	0.0	0.0	266.27
	6.4537	25.58000	32.56000	-2.00000	0.0	0.0	0.0	0.0	0.0	266.27

Name	Type/No. Dist.	Coordinates x	y	z	Displacements x	y	z	Horizontal displacement	Horizontal displacement	Angle of Line to x Axis
	7.3756	25.52000	31.64000	-2.00000	0.0	0.0	0.0	0.0	0.0	266.27
	8.2976	25.46000	30.72000	-2.00000	0.0	0.0	0.0	0.0	0.0	266.27
	9.2195	25.40000	29.80000	-2.00000	0.0	0.0	0.0	0.0	0.0	266.27
AW	Line 49	25.40000	29.80000	-2.00000	0.0	0.0	0.0	0.0	0.0	356.46
	1.8869	27.28333	29.68333	-2.00000	0.14632	0.076087	0.025690	0.14134	0.084988	356.46
	3.7739	29.16667	29.56667	-2.00000	0.51492	0.42748	0.14409	0.48751	0.45850	356.46
	5.6608	31.05000	29.45000	-2.00000	0.80491	0.90358	0.43160	0.74750	0.95162	356.46
	7.5478	32.93333	29.33333	-2.00000	1.0769	1.1083	0.79708	1.0063	1.1727	356.46
	9.4347	34.81667	29.21667	-2.00000	1.7097	1.1153	1.5716	1.6374	1.2189	356.46
	11.322	36.70000	29.10000	-2.00000	2.2329	1.0620	2.7362	2.1630	1.1981	356.46

Specific Building Damage Results - Horizontal Displacements

Structure: A | Sub-structure:

Dist.	Coordinates x	y	z	x	y	Displacements Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	22.50000	48.10000	-0.50000	0.0	0.0	0.0	0.0
0.85000	23.35000	48.10000	-0.50000	0.0	0.0	0.0	0.0
1.7000	24.20000	48.10000	-0.50000	0.0	0.0	0.0	0.0
2.5500	25.05000	48.10000	-0.50000	0.0	0.0	0.0	0.0
3.4000	25.90000	48.10000	-0.50000	0.0	0.0	0.0	0.0

Structure: B | Sub-structure:

Dist.	Coordinates x	y	z	x	y	Displacements Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	25.90000	48.10000	-0.50000	0.0	0.0	0.0	0.0
0.77500	25.90000	47.32500	-0.50000	0.0	0.0	0.0	0.0
1.5500	25.90000	46.55000	-0.50000	0.0	0.0	0.0	0.0
2.3250	25.90000	45.77500	-0.50000	0.0	0.0	0.0	0.0
3.1000	25.90000	45.00000	-0.50000	0.0	0.0	0.0	0.0

Structure: C | Sub-structure:

Dist.	Coordinates x	y	z	x	y	Displacements Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	25.90000	45.00000	-0.50000	0.0	0.0	0.0	0.0
0.92022	26.82000	44.98000	-0.50000	0.0	0.0	0.0	0.0
1.8404	27.74000	44.96000	-0.50000	0.18067	-0.065755	0.18205	-0.061812
2.7607	28.66000	44.94000	-0.50000	0.44079	-0.18971	0.44481	-0.18008
3.6809	29.58000	44.92000	-0.50000	0.67150	-0.35508	0.67905	-0.34041
4.6011	30.50000	44.90000	-0.50000	0.84440	-0.58235	0.85686	-0.56386

Structure: D | Sub-structure:

Dist.	Coordinates x	y	z	x	y	Displacements Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	30.50000	44.90000	-0.50000	0.84440	-0.58235	-0.59788	-0.83347
0.90015	30.48333	45.80000	-0.50000	0.58786	-0.58450	-0.59529	-0.57694
1.8003	30.46667	46.70000	-0.50000	0.36654	-0.47483	-0.48154	-0.35768
2.7005	30.45000	47.60000	-0.50000	0.18623	-0.29670	-0.30010	-0.18070
3.6006	30.43333	48.50000	-0.50000	0.040996	-0.077385	-0.078131	-0.039556
4.5008	30.41667	49.40000	-0.50000	0.0	0.0	0.0	0.0
5.4009	30.40000	50.30000	-0.50000	0.0	0.0	0.0	0.0

Structure: E | Sub-structure:

Dist.	Coordinates x	y	z	x	y	Displacements Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	30.40000	50.30000	-0.50000	0.0	0.0	0.0	0.0
0.83333	31.23333	50.30000	-0.50000	0.0	0.0	0.0	0.0
1.6667	32.06667	50.30000	-0.50000	0.13273	-0.064767	0.13273	-0.064767
2.5000	32.90000	50.30000	-0.50000	0.34097	-0.19587	0.34097	-0.19587

Structure: F | Sub-structure:

Dist.	Coordinates x	y	z	x	y	Displacements Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	32.90000	50.30000	-0.50000	0.34097	-0.19587	-0.19220	-0.34305
0.93005	32.91000	51.23000	-0.50000	0.17643	-0.13656	-0.13465	-0.17789
1.8601	32.92000	52.16000	-0.50000	0.015705	-0.015302	-0.015133	-0.015869
2.7902	32.93000	53.09000	-0.50000	0.0	0.0	0.0	0.0
3.7202	32.94000	54.02000	-0.50000	0.0	0.0	0.0	0.0
4.6503	32.95000	54.95000	-0.50000	0.0	0.0	0.0	0.0
5.5803	32.96000	55.88000	-0.50000	0.0	0.0	0.0	0.0
6.5104	32.97000	56.81000	-0.50000	0.0	0.0	0.0	0.0
7.4404	32.98000	57.74000	-0.50000	0.0	0.0	0.0	0.0
8.3705	32.99000	58.67000	-0.50000	0.0	0.0	0.0	0.0
9.3005	33.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0

Structure: G | Sub-structure:

Dist.	Coordinates x	y	z	x	y	Displacements Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	33.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0
1.0000	32.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0
2.0000	31.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0
3.0000	30.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0
4.0000	29.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0
5.0000	28.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0

Dist.	Coordinates					Displacements	
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]

Structure: H | Sub-structure:

Dist.	Coordinates					Displacements	
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	28.00000	59.60000	-0.50000	0.0	0.0	0.0	0.0
0.90062	28.03333	58.70000	-0.50000	0.0	0.0	0.0	0.0
1.8012	28.06667	57.80000	-0.50000	0.0	0.0	0.0	0.0
2.7019	28.10000	56.90000	-0.50000	0.0	0.0	0.0	0.0

Structure: I | Sub-structure:

Dist.	Coordinates					Displacements	
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	28.10000	56.90000	-0.50000	0.0	0.0	0.0	0.0
0.90009	27.20000	56.91250	-0.50000	0.0	0.0	0.0	0.0
1.8002	26.30000	56.92500	-0.50000	0.0	0.0	0.0	0.0
2.7003	25.40000	56.93750	-0.50000	0.0	0.0	0.0	0.0
3.6003	24.50000	56.95000	-0.50000	0.0	0.0	0.0	0.0
4.5004	23.60000	56.96250	-0.50000	0.0	0.0	0.0	0.0
5.4005	22.70000	56.97500	-0.50000	0.0	0.0	0.0	0.0
6.3006	21.80000	56.98750	-0.50000	0.0	0.0	0.0	0.0
7.2007	20.90000	57.00000	-0.50000	0.0	0.0	0.0	0.0

Structure: J | Sub-structure:

Dist.	Coordinates					Displacements	
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	33.00000	59.50000	-0.50000	0.0	0.0	0.0	0.0
1.9500	34.95000	59.50000	-0.50000	0.0	0.0	0.0	0.0
3.9000	36.90000	59.50000	-0.50000	0.0	0.0	0.0	0.0
5.8500	38.85000	59.50000	-0.50000	0.0	0.0	0.0	0.0
7.8000	40.80000	59.50000	-0.50000	0.0	0.0	0.0	0.0
9.7500	42.75000	59.50000	-0.50000	0.0	0.0	0.0	0.0
11.700	44.70000	59.50000	-0.50000	0.0	0.0	0.0	0.0
13.650	46.65000	59.50000	-0.50000	0.0	0.0	0.0	0.0
15.600	48.60000	59.50000	-0.50000	0.0	0.0	0.0	0.0
17.550	50.55000	59.50000	-0.50000	0.0	0.0	0.0	0.0
19.500	52.50000	59.50000	-0.50000	0.0	0.0	0.0	0.0

Structure: K | Sub-structure:

Dist.	Coordinates					Displacements	
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	33.00000	52.20000	-0.50000	0.022302	-0.022302	0.022302	-0.022302
0.98889	33.98889	52.20000	-0.50000	0.15477	-0.19715	0.15477	-0.19715
1.9778	34.97778	52.20000	-0.50000	0.21544	-0.37794	0.21544	-0.37794
2.9667	35.96667	52.20000	-0.50000	0.19169	-0.53985	0.19169	-0.53985
3.9556	36.95556	52.20000	-0.50000	0.090417	-0.64539	0.090417	-0.64539
4.9444	37.94444	52.20000	-0.50000	0.0	-0.66667	0.0	-0.66667
5.9333	38.93333	52.20000	-0.50000	0.0	-0.66667	0.0	-0.66667
6.9222	39.92222	52.20000	-0.50000	0.0	-0.66667	0.0	-0.66667
7.9111	40.91111	52.20000	-0.50000	0.0	-0.66667	0.0	-0.66667
8.9000	41.90000	52.20000	-0.50000	0.0	-0.66667	0.0	-0.66667

Structure: L | Sub-structure:

Dist.	Coordinates					Displacements	
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	37.70000	59.40000	-0.50000	0.0	0.0	0.0	0.0
0.90000	37.70000	58.50000	-0.50000	0.0	0.0	0.0	0.0
1.8000	37.70000	57.60000	-0.50000	0.0	0.0	0.0	0.0
2.7000	37.70000	56.70000	-0.50000	0.0	0.0	0.0	0.0
3.6000	37.70000	55.80000	-0.50000	0.0	0.0	0.0	0.0
4.5000	37.70000	54.90000	-0.50000	0.0	0.0	0.0	0.0
5.4000	37.70000	54.00000	-0.50000	0.0	-0.066667	0.066667	0.0
6.3000	37.70000	53.10000	-0.50000	0.0	-0.36667	0.36667	0.0
7.2000	37.70000	52.20000	-0.50000	0.0	-0.66667	0.66667	0.0

Structure: M | Sub-structure:

Dist.	Coordinates					Displacements	
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	42.00000	59.50000	-1.50000	0.0	0.0	0.0	0.0
0.91259	41.98750	58.58750	-1.50000	0.0	0.0	0.0	0.0
1.8252	41.97500	57.67500	-1.50000	0.0	0.0	0.0	0.0
2.7378	41.96250	56.76250	-1.50000	0.0	0.0	0.0	0.0
3.6503	41.95000	55.85000	-1.50000	0.0	0.0	0.0	0.0
4.5629	41.93750	54.93750	-1.50000	0.0	0.0	0.0	0.0
5.4755	41.92500	54.02500	-1.50000	0.0	-0.058333	0.058328	799.01E-6
6.3881	41.91250	53.11250	-1.50000	0.0	-0.36250	0.36247	0.0049653
7.3007	41.90000	52.20000	-1.50000	0.0	-0.66667	0.66660	0.0091316

Structure: N | Sub-structure:

Dist.	Coordinates					Displacements	
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	45.50000	53.30000	-4.00000	-0.010479	-0.29865	-0.29865	0.010479
0.87143	45.50000	54.17143	-4.00000	-258.87E-6	-0.0085056	-0.0085056	258.87E-6
1.7429	45.50000	55.04286	-4.00000	0.0	0.0	0.0	0.0
2.6143	45.50000	55.91429	-4.00000	0.0	0.0	0.0	0.0
3.4857	45.50000	56.78571	-4.00000	0.0	0.0	0.0	0.0
4.3571	45.50000	57.65714	-4.00000	0.0	0.0	0.0	0.0

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
5.2286	45.50000	58.52857	-4.00000	0.0	0.0	0.0	0.0
6.1000	45.50000	59.40000	-4.00000	0.0	0.0	0.0	0.0

Structure: O | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	37.70000	52.20000	-0.68000	0.0	-0.66667	0.66667	0.0
0.92000	37.70000	51.28000	-0.68000	0.0	-0.97333	0.97333	0.0
1.8400	37.70000	50.36000	-0.68000	0.0	-1.2800	1.2800	0.0
2.7600	37.70000	49.44000	-0.68000	-935.53E-6	-1.6020	1.6020	-935.53E-6
3.6800	37.70000	48.52000	-0.68000	-0.021851	-2.2003	2.2003	-0.021851
4.6000	37.70000	47.60000	-0.68000	-0.050431	-2.7926	2.7926	-0.050431

Structure: P | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	45.50000	53.30000	-1.85000	-0.010479	-0.29865	0.29865	-0.010479
0.95000	45.50000	52.35000	-1.85000	-0.025883	-0.61472	0.61472	-0.025883
1.9000	45.50000	51.40000	-1.85000	-0.048963	-0.93029	0.93029	-0.048963
2.8500	45.50000	50.45000	-1.85000	-0.087341	-1.2446	1.2446	-0.087341
3.8000	45.50000	49.50000	-1.85000	-0.16364	-1.5546	1.5546	-0.16364
4.7500	45.50000	48.55000	-1.85000	-0.38656	-1.8361	1.8361	-0.38656
5.7000	45.50000	47.60000	-1.85000	-2.0693	-0.52721	0.52721	-2.0693

Structure: Q | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	41.90000	52.20000	-0.65000	0.0	-0.66667	0.66667	0.0
0.92000	41.90000	51.28000	-0.65000	0.0	-0.97333	0.97333	0.0
1.8400	41.90000	50.36000	-0.65000	0.0	-1.2800	1.2800	0.0
2.7600	41.90000	49.44000	-0.65000	0.0	-1.5867	1.5867	0.0
3.6800	41.90000	48.52000	-0.65000	0.0	-1.8933	1.8933	0.0
4.6000	41.90000	47.60000	-0.65000	-0.0028569	-2.2029	2.2029	-0.0028569

Structure: R | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	33.00000	50.30000	-0.50000	0.36398	-0.21364	0.19368	0.37498
0.92635	32.95000	49.37500	-0.50000	0.50788	-0.22927	0.20153	0.51951
1.8527	32.90000	48.45000	-0.50000	0.62895	-0.44931	0.41471	0.65228
2.7791	32.85000	47.52500	-0.50000	0.69542	-0.67257	0.63406	0.73071
3.7054	32.80000	46.60000	-0.50000	0.76922	-0.96784	0.92491	0.82034
4.6318	32.75000	45.67500	-0.50000	0.90023	-1.2465	1.1961	0.96620
5.5581	32.70000	44.75000	-0.50000	1.1585	-1.4703	1.4056	1.2362
6.4845	32.65000	43.82500	-0.50000	1.7469	-1.4298	1.3334	1.8215
7.4108	32.60000	42.90000	-0.50000	2.5390	-0.15905	0.021775	2.5439

Structure: S | Sub-structure:

Dist.	Coordinates					Displacements	
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	54.40000	58.50000	-0.50000	0.0	0.0	0.0	0.0
1.9375	55.56250	56.95000	-0.50000	0.0	0.0	0.0	0.0
3.8750	56.72500	55.40000	-0.50000	0.0	0.0	0.0	0.0
5.8125	57.88750	53.85000	-0.50000	0.0	0.0	0.0	0.0
7.7500	59.05000	52.30000	-0.50000	0.0	0.0	0.0	0.0
9.6875	60.21250	50.75000	-0.50000	0.0	0.0	0.0	0.0
11.625	61.37500	49.20000	-0.50000	0.0	0.0	0.0	0.0
13.562	62.53750	47.65000	-0.50000	0.0	0.0	0.0	0.0
15.500	63.70000	46.10000	-0.50000	0.0	0.0	0.0	0.0
17.438	64.86250	44.55000	-0.50000	0.0	0.0	0.0	0.0
19.375	66.02500	43.00000	-0.50000	0.0	0.0	0.0	0.0
21.313	67.18750	41.45000	-0.50000	0.0	0.0	0.0	0.0
23.250	68.35000	39.90000	-0.50000	0.0	0.0	0.0	0.0
25.188	69.51250	38.35000	-0.50000	0.0	0.0	0.0	0.0
27.125	70.67500	36.80000	-0.50000	0.0	0.0	0.0	0.0
29.063	71.83750	35.25000	-0.50000	0.0	0.0	0.0	0.0
31.000	73.00000	33.70000	-0.50000	0.0	0.0	0.0	0.0

Structure: T | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	45.50000	53.30000	-0.50000	-0.010479	-0.29865	0.22778	-0.19343
1.9859	46.73158	51.74211	-0.50000	-0.24145	-0.69861	0.39831	-0.62266
3.9718	47.96316	50.18421	-0.50000	-0.69114	-0.67065	0.097493	-0.95810
5.9577	49.19474	48.62632	-0.50000	-0.82913	-0.21849	-0.34280	-0.78593
7.9436	50.42632	47.06842	-0.50000	-0.56968	-0.14514	-0.23943	-0.53691
9.9295	51.65789	45.51053	-0.50000	-0.30842	-0.078578	-0.12962	-0.29068
11.915	52.88947	43.95263	-0.50000	-0.047155	-0.012014	-0.019819	-0.044443
13.901	54.12105	42.39474	-0.50000	0.0	0.0	0.0	0.0
15.887	55.35263	40.83684	-0.50000	0.0	0.0	0.0	0.0
17.873	56.58421	39.27895	-0.50000	0.0	0.0	0.0	0.0
19.859	57.81579	37.72105	-0.50000	-0.53491	-0.13160	-0.22849	-0.50124
21.845	59.04737	36.16316	-0.50000	-0.37959	-0.073330	-0.17788	-0.34326
23.831	60.27895	34.60526	-0.50000	-0.21702	-0.041924	-0.10170	-0.19624
25.817	61.51053	33.04737	-0.50000	-0.057977	-0.011200	-0.027169	-0.052428
27.803	62.74211	31.48947	-0.50000	0.0	0.0	0.0	0.0
29.789	63.97368	29.93158	-0.50000	0.0	0.0	0.0	0.0
31.774	65.20526	28.37368	-0.50000	0.0	0.0	0.0	0.0
33.760	66.43684	26.81579	-0.50000	0.0	0.0	0.0	0.0
35.746	67.66842	25.25789	-0.50000	0.0	0.0	0.0	0.0
37.732	68.90000	23.70000	-0.50000	0.0	0.0	0.0	0.0

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]

Structure: U | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	63.00000	47.00000	-0.50000	0.0	0.0	0.0	0.0
0.98600	62.21000	46.41000	-0.50000	0.0	0.0	0.0	0.0
1.9720	61.42000	45.82000	-0.50000	0.0	0.0	0.0	0.0
2.9580	60.63000	45.23000	-0.50000	0.0	0.0	0.0	0.0
3.9440	59.84000	44.64000	-0.50000	0.0	0.0	0.0	0.0
4.9300	59.05000	44.05000	-0.50000	0.0	0.0	0.0	0.0
5.9160	58.26000	43.46000	-0.50000	0.0	0.0	0.0	0.0
6.9020	57.47000	42.87000	-0.50000	0.0	0.0	0.0	0.0
7.8880	56.68000	42.28000	-0.50000	0.0	0.0	0.0	0.0
8.8740	55.89000	41.69000	-0.50000	0.0	0.0	0.0	0.0
9.8600	55.10000	41.10000	-0.50000	0.0	0.0	0.0	0.0

Structure: V | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	55.10000	41.10000	-0.50000	0.0	0.0	0.0	0.0
0.91001	54.37500	40.55000	-0.50000	0.0	0.0	0.0	0.0
1.8200	53.65000	40.00000	-0.50000	-0.12432	-0.031675	0.11819	-0.049903
2.7300	52.92500	39.45000	-0.50000	-0.39512	-0.10067	0.37563	-0.15860
3.6401	52.20000	38.90000	-0.50000	-0.66592	-0.16966	0.63307	-0.26730

Structure: W | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	52.20000	38.90000	-1.70000	-0.66592	-0.16966	-0.27491	-0.62981
0.57009	52.55000	38.45000	-1.70000	-0.59225	-0.15089	-0.24450	-0.56013
1.1402	52.90000	38.00000	-1.70000	-0.51858	-0.13212	-0.21409	-0.49046

Structure: X | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	66.40000	42.50000	-0.50000	0.0	0.0	0.0	0.0
0.97201	65.62000	41.92000	-0.50000	0.0	0.0	0.0	0.0
1.9440	64.84000	41.34000	-0.50000	0.0	0.0	0.0	0.0
2.9160	64.06000	40.76000	-0.50000	0.0	0.0	0.0	0.0
3.8880	63.28000	40.18000	-0.50000	0.0	0.0	0.0	0.0
4.8600	62.50000	39.60000	-0.50000	0.0	0.0	0.0	0.0
5.8320	61.72000	39.02000	-0.50000	0.0	0.0	0.0	0.0
6.8041	60.94000	38.44000	-0.50000	0.0	0.0	0.0	0.0
7.7761	60.16000	37.86000	-0.50000	-0.12898	-0.026980	0.11960	-0.055311
8.7481	59.38000	37.28000	-0.50000	-0.28321	-0.054712	0.25991	-0.12509
9.7201	58.60000	36.70000	-0.50000	-0.44105	-0.085202	0.40476	-0.19480

Structure: Y | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	58.60000	36.70000	-1.40000	-0.44105	-0.085202	0.40287	-0.19868
0.91001	57.87500	36.15000	-1.40000	-0.59399	-0.11475	0.54258	-0.26758
1.8200	57.15000	35.60000	-1.40000	-0.75453	-0.14576	0.68922	-0.33990
2.7300	56.42500	35.05000	-1.40000	-0.92454	-0.17860	0.84452	-0.41649
3.6401	55.70000	34.50000	-1.40000	-1.1059	-0.21364	1.0102	-0.49819

Structure: Z | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	69.70000	38.10000	-0.50000	0.0	0.0	0.0	0.0
0.95802	68.93000	37.53000	-0.50000	0.0	0.0	0.0	0.0
1.9160	68.16000	36.96000	-0.50000	0.0	0.0	0.0	0.0
2.8741	67.39000	36.39000	-0.50000	0.0	0.0	0.0	0.0
3.8321	66.62000	35.82000	-0.50000	0.0	0.0	0.0	0.0
4.7901	65.85000	35.25000	-0.50000	0.0	0.0	0.0	0.0
5.7481	65.08000	34.68000	-0.50000	0.0	0.0	0.0	0.0
6.7061	64.31000	34.11000	-0.50000	0.0	0.0	0.0	0.0
7.6642	63.54000	33.54000	-0.50000	0.0	0.0	0.0	0.0
8.6222	62.77000	32.97000	-0.50000	0.0	0.0	0.0	0.0
9.5802	62.00000	32.40000	-0.50000	0.0	0.0	0.0	0.0

Structure: AA | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	62.00000	32.40000	-1.40000	0.0	0.0	0.0	0.0
0.91549	61.25000	31.87500	-1.40000	-0.14093	-0.027224	0.13106	-0.058513
1.8310	60.50000	31.35000	-1.40000	-0.28767	-0.055572	0.26753	-0.11944
2.7465	59.75000	30.82500	-1.40000	-0.43834	-0.084678	0.40766	-0.18200
3.6620	59.00000	30.30000	-1.40000	-0.59496	-0.11493	0.55332	-0.24703

Structure: AB | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the	Horizontal displacement perpendicular

						Line	to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	73.00000	33.70000	-0.50000	0.0	0.0	0.0	0.0
0.94626	72.23000	33.15000	-0.50000	0.0	0.0	0.0	0.0
1.8925	71.46000	32.60000	-0.50000	0.0	0.0	0.0	0.0
2.8388	70.69000	32.05000	-0.50000	0.0	0.0	0.0	0.0
3.7850	69.92000	31.50000	-0.50000	0.0	0.0	0.0	0.0
4.7313	69.15000	30.95000	-0.50000	0.0	0.0	0.0	0.0
5.6775	68.38000	30.40000	-0.50000	0.0	0.0	0.0	0.0
6.6238	67.61000	29.85000	-0.50000	0.0	0.0	0.0	0.0
7.5700	66.84000	29.30000	-0.50000	0.0	0.0	0.0	0.0
8.5163	66.07000	28.75000	-0.50000	0.0	0.0	0.0	0.0
9.4626	65.30000	28.20000	-0.50000	0.0	0.0	0.0	0.0

Structure: AC | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	65.30000	28.20000	-0.50000	0.0	0.0	0.0	0.0
0.84673	64.61667	27.70000	-0.50000	0.0	0.0	0.0	0.0
1.6935	63.93333	27.20000	-0.50000	0.0	0.0	0.0	0.0
2.5402	63.25000	26.70000	-0.50000	0.0	0.0	0.0	0.0
3.3868	62.56667	26.20000	-0.50000	-0.050776	0.0016292	0.040016	-0.031299
4.2336	61.88333	25.70000	-0.50000	-0.16619	0.012694	0.12663	-0.10838
5.0804	61.20000	25.20000	-0.50000	-0.27711	0.034951	0.20300	-0.19184

Structure: AD | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	61.20000	25.20000	-1.46000	-0.27711	0.034951	0.27930	571.43E-6
0.98298	60.22500	25.32500	-1.46000	-0.45617	0.057443	0.45977	0.0010313
1.9660	59.25000	25.45000	-1.46000	-0.64379	0.080914	0.64885	0.0016105
2.9489	58.27500	25.57500	-1.46000	-0.84331	0.10574	0.84991	0.0023612
3.9319	57.30000	25.70000	-1.46000	-1.0581	0.13226	1.0663	0.0033637
4.9149	56.32500	25.82500	-1.46000	-1.2914	0.16078	1.3014	0.0047485
5.8979	55.35000	25.95000	-1.46000	-1.5467	0.19149	1.5585	0.0067433
6.8809	54.37500	26.07500	-1.46000	-1.8272	0.22439	1.8409	0.0097834
7.8638	53.40000	26.20000	-1.46000	-2.1365	0.25897	2.1521	0.014819

Structure: AE | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	61.20000	25.20000	-0.50000	-0.27711	0.034951	-0.018123	-0.27872
0.82651	61.15000	24.37500	-0.50000	-0.25900	0.052152	-0.036388	-0.26168
1.6530	61.10000	23.55000	-0.50000	-0.22982	0.063722	-0.049703	-0.23325
2.4795	61.05000	22.72500	-0.50000	-0.19105	0.067611	-0.055929	-0.19479
3.3061	61.00000	21.90000	-0.50000	-0.14450	0.062308	-0.053452	-0.14801

Structure: AF | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	50.30000	26.50000	-1.46000	-3.0050	1.5025	-1.2155	-3.1321
0.80351	50.22500	25.70000	-1.46000	-0.42097	3.0310	-2.9785	-0.70204
1.6070	50.15000	24.90000	-1.46000	-0.080493	2.7368	-2.7173	-0.33559
2.4105	50.07500	24.10000	-1.46000	0.024375	2.4375	-2.4291	-0.20325
3.2140	50.00000	23.30000	-1.46000	0.065415	2.1587	-2.1554	-0.13636

Structure: AG | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	50.00000	23.30000	-0.50000	0.065415	2.1587	-0.21217	2.1492
1.9046	51.88889	23.05556	-0.50000	-0.87598	1.7356	-1.0915	1.6089
3.8093	53.77778	22.81111	-0.50000	-1.0873	1.1202	-1.2221	0.97138
5.7139	55.66667	22.56667	-0.50000	-0.93546	0.67779	-1.0147	0.55212
7.6186	57.55556	22.32222	-0.50000	-0.67254	0.38588	-0.71650	0.29638
9.5232	59.44444	22.07778	-0.50000	-0.38425	0.18595	-0.40493	0.13510
11.428	61.33333	21.83333	-0.50000	-0.090654	0.038467	-0.094841	0.026515
13.332	63.22222	21.58889	-0.50000	0.0	0.0	0.0	0.0
15.237	65.11111	21.34444	-0.50000	0.0	0.0	0.0	0.0
17.142	67.00000	21.10000	-0.50000	0.0	0.0	0.0	0.0

Structure: AH | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	59.00000	20.70000	-0.50000	-0.31010	0.20557	0.33090	-0.17007
0.90554	58.10000	20.80000	-0.50000	-0.42174	0.30576	0.45292	-0.25732
1.8111	57.20000	20.90000	-0.50000	-0.52410	0.42076	0.56736	-0.36031
2.7166	56.30000	21.00000	-0.50000	-0.61263	0.55334	0.66999	-0.48231
3.6222	55.40000	21.10000	-0.50000	-0.68014	0.70580	0.75392	-0.62638
4.5277	54.50000	21.20000	-0.50000	-0.71610	0.87885	0.80877	-0.79440
5.4332	53.60000	21.30000	-0.50000	-0.70639	1.0697	0.82020	-0.98513
6.3388	52.70000	21.40000	-0.50000	-0.63439	1.2688	0.77063	-1.1910

Structure: AI | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	52.70000	21.40000	-0.50000	-0.63439	1.2688	-1.1640	-0.81085

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.97015	52.56000	20.44000	-0.50000	-0.44983	1.1264	-1.0497	-0.60767
1.9403	52.42000	19.48000	-0.50000	-0.31402	0.96371	-0.90831	-0.44980
2.9105	52.28000	18.52000	-0.50000	-0.21426	0.79414	-0.75491	-0.32662
3.8806	52.14000	17.56000	-0.50000	-0.14086	0.62420	-0.59734	-0.22946
4.8508	52.00000	16.60000	-0.50000	-0.086733	0.45649	-0.43919	-0.15170

Structure: AJ | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	52.00000	16.60000	-0.50000	-0.086733	0.45649	0.14207	-0.44240
0.99641	51.01111	16.72222	-0.50000	-0.047174	0.51143	0.10955	-0.50178
1.9928	50.02222	16.84444	-0.50000	0.0043440	0.54487	0.062523	-0.54129
2.9892	49.03333	16.96667	-0.50000	0.061313	0.55373	0.0070721	-0.55707
3.9857	48.04444	17.08889	-0.50000	0.073968	0.55065	-0.0058654	-0.55556
4.9821	47.05556	17.21111	-0.50000	0.073698	0.54864	-0.0058440	-0.55354
5.9785	46.06667	17.33333	-0.50000	0.073429	0.54664	-0.0058227	-0.55152
6.9749	45.07778	17.45556	-0.50000	0.073160	0.54464	-0.0058014	-0.54950
7.9713	44.08889	17.57778	-0.50000	0.072891	0.54264	-0.0057801	-0.54748
8.9677	43.10000	17.70000	-0.50000	0.072623	0.54064	-0.0057587	-0.54546

Structure: AK | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	43.10000	17.70000	-0.50000	0.072623	0.54064	0.54547	0.0045646
0.98995	43.24000	18.68000	-0.50000	0.098663	0.73449	0.74106	0.0062013
1.9799	43.38000	19.66000	-0.50000	0.12653	0.94195	0.95038	0.0079530
2.9698	43.52000	20.64000	-0.50000	0.15668	1.1664	1.1769	0.0098482
3.9598	43.66000	21.62000	-0.50000	0.18958	1.4113	1.4239	0.011916
4.9497	43.80000	22.60000	-0.50000	0.22566	1.6799	1.6950	0.014184

Structure: AL | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	43.80000	22.60000	-0.50000	0.22566	1.6799	-0.011113	-1.6950
0.94763	42.86000	22.72000	-0.50000	0.22542	1.6782	-0.011101	-1.6932
1.8953	41.92000	22.84000	-0.50000	0.22519	1.6764	-0.011090	-1.6914
2.8429	40.98000	22.96000	-0.50000	0.22495	1.6746	-0.011078	-1.6896
3.7905	40.04000	23.08000	-0.50000	0.22471	1.6729	-0.011066	-1.6879
4.7381	39.10000	23.20000	-0.50000	0.22448	1.6711	-0.011055	-1.6861

Structure: AM | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	39.10000	23.20000	-0.50000	0.22448	1.6711	-1.6831	0.10042
0.90247	39.03333	22.30000	-0.50000	0.19160	1.4263	-1.4366	0.085708
1.8049	38.96667	21.40000	-0.50000	0.16138	1.2014	-1.2101	0.072193
2.7074	38.90000	20.50000	-0.50000	0.13350	0.99382	-1.0010	0.059718

Structure: AN | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	38.90000	20.50000	-0.50000	0.13350	0.99382	0.016888	-1.0026
0.83442	38.07500	20.62500	-0.50000	0.13392	0.99694	0.016941	-1.0057
1.6688	37.25000	20.75000	-0.50000	0.13434	1.0001	0.016994	-1.0089
2.5032	36.42500	20.87500	-0.50000	0.13476	1.0032	0.017047	-1.0121
3.3377	35.60000	21.00000	-0.50000	0.14927	1.0042	0.0028459	-1.0152

Structure: AO | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	35.60000	21.00000	-0.50000	0.14927	1.0042	1.0148	-0.028563
0.83931	35.70000	21.83333	-0.50000	0.18226	1.1969	1.2100	-0.038364
1.6786	35.80000	22.66667	-0.50000	0.22040	1.4040	1.4203	-0.051546
2.5179	35.90000	23.50000	-0.50000	0.26570	1.6274	1.6475	-0.069908

Structure: AP | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	35.90000	23.50000	-0.50000	0.26570	1.6274	-0.0067090	-1.6489
0.89107	35.02000	23.64000	-0.50000	0.54104	1.5329	-0.29347	-1.5989
1.7821	34.14000	23.78000	-0.50000	0.75645	1.3652	-0.53257	-1.4670
2.6732	33.26000	23.92000	-0.50000	0.89039	1.1596	-0.69715	-1.2851
3.5643	32.38000	24.06000	-0.50000	0.94460	0.94898	-0.78377	-1.0856
4.4553	31.50000	24.20000	-0.50000	0.93395	0.75434	-0.80383	-0.89171

Structure: AQ | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	31.50000	24.20000	-0.50000	0.93395	0.75434	-0.87884	0.81788
0.98995	31.36000	23.22000	-0.50000	0.73542	0.71338	-0.81022	0.62714

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
1.9799	31.22000	22.24000	-0.50000	0.56410	0.63410	-0.70750	0.46876
2.9698	31.08000	21.26000	-0.50000	0.41797	0.53102	-0.58480	0.33868
3.9598	30.94000	20.28000	-0.50000	0.29322	0.41337	-0.45068	0.23182
4.9497	30.80000	19.30000	-0.50000	0.18575	0.28650	-0.30989	0.14337

Structure: AR | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	35.60000	12.40000	-0.50000	0.0	0.0	0.0	0.0
0.94130	35.72222	13.33333	-0.50000	0.0	0.0	0.0	0.0
1.8826	35.84444	14.26667	-0.50000	0.0	0.0	0.0	0.0
2.8239	35.96667	15.20000	-0.50000	0.0	0.0	0.0	0.0
3.7652	36.08889	16.13333	-0.50000	0.012264	0.091299	0.092119	-305.62E-6
4.7065	36.21111	17.06667	-0.50000	0.034558	0.25726	0.25957	-861.16E-6
5.6478	36.33333	18.00000	-0.50000	0.057449	0.42768	0.43152	-0.0014316
6.5891	36.45556	18.93333	-0.50000	0.081331	0.60546	0.61090	-0.0020267
7.5304	36.57778	19.86667	-0.50000	0.10659	0.79353	0.80065	-0.0026563
8.4717	36.70000	20.80000	-0.50000	0.13363	0.99480	1.0037	-0.0033300

Structure: AS | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	44.70000	9.30000	-0.50000	0.0	0.0	0.0	0.0
0.90683	44.81111	10.20000	-0.50000	0.0	0.0	0.0	0.0
1.8137	44.92222	11.10000	-0.50000	0.0	0.0	0.0	0.0
2.7205	45.03333	12.00000	-0.50000	0.0	0.0	0.0	0.0
3.6273	45.14444	12.90000	-0.50000	0.0	0.0	0.0	0.0
4.5342	45.25556	13.80000	-0.50000	0.0	0.0	0.0	0.0
5.4410	45.36667	14.70000	-0.50000	0.0079098	0.058884	0.059410	-635.34E-6
6.3478	45.47778	15.60000	-0.50000	0.029310	0.21820	0.22014	-0.0023543
7.2547	45.58889	16.50000	-0.50000	0.051180	0.38101	0.38441	-0.0041110
8.1615	45.70000	17.40000	-0.50000	0.073871	0.54993	0.55484	-0.0059335

Structure: AT | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	54.50000	10.00000	-0.50000	0.0	0.0	0.0	0.0
1.8461	54.71667	11.83333	-0.50000	0.0	0.0	0.0	0.0
3.6922	54.93333	13.66667	-0.50000	0.0	0.0	0.0	0.0
5.5383	55.15000	15.50000	-0.50000	-0.041370	0.090931	0.085447	0.051756
7.3844	55.36667	17.33333	-0.50000	-0.18559	0.32654	0.30250	0.22263
9.2305	55.58333	19.16667	-0.50000	-0.38342	0.51978	0.47118	0.44178
11.077	55.80000	21.00000	-0.50000	-0.64416	0.63285	0.55288	0.71398

Structure: AU | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	33.10000	38.60000	-2.00000	3.0357	-0.18792	-3.0415	0.016867
0.88891	32.21250	38.65000	-2.00000	2.4442	-0.15386	-2.4489	0.016131
1.7778	31.32500	38.70000	-2.00000	1.8526	-0.11979	-1.8564	0.015394
2.6667	30.43750	38.75000	-2.00000	1.3047	-0.087815	-1.3075	0.014289
3.5556	29.55000	38.80000	-2.00000	1.0091	-0.067918	-1.0113	0.011052
4.4445	28.66250	38.85000	-2.00000	0.71344	-0.048020	-0.71502	0.0078139
5.3334	27.77500	38.90000	-2.00000	0.41783	-0.028123	-0.41875	0.0045762
6.2224	26.88750	38.95000	-2.00000	0.12221	-0.0082258	-0.12248	0.0013385
7.1113	26.00000	39.00000	-2.00000	0.0	0.0	0.0	0.0

Structure: AV | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	26.00000	39.00000	-2.00000	0.0	0.0	0.0	0.0
0.92195	25.94000	38.08000	-2.00000	0.0	0.0	0.0	0.0
1.8439	25.88000	37.16000	-2.00000	0.0	0.0	0.0	0.0
2.7659	25.82000	36.24000	-2.00000	0.0	0.0	0.0	0.0
3.6878	25.76000	35.32000	-2.00000	0.0	0.0	0.0	0.0
4.6098	25.70000	34.40000	-2.00000	0.0	0.0	0.0	0.0
5.5317	25.64000	33.48000	-2.00000	0.0	0.0	0.0	0.0
6.4537	25.58000	32.56000	-2.00000	0.0	0.0	0.0	0.0
7.3756	25.52000	31.64000	-2.00000	0.0	0.0	0.0	0.0
8.2976	25.46000	30.72000	-2.00000	0.0	0.0	0.0	0.0
9.2195	25.40000	29.80000	-2.00000	0.0	0.0	0.0	0.0

Structure: AW | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	25.40000	29.80000	-2.00000	0.0	0.0	0.0	0.0
1.8869	27.28333	29.68333	-2.00000	0.14632	0.076087	0.14134	0.084988
3.7739	29.16667	29.56667	-2.00000	0.51492	0.42748	0.48751	0.45850
5.6608	31.05000	29.45000	-2.00000	0.80491	0.90358	0.74750	0.95162
7.5478	32.93333	29.33333	-2.00000	1.0769	1.1083	1.0063	1.1727
9.4347	34.81667	29.21667	-2.00000	1.7097	1.1153	1.6374	1.2189
11.322	36.70000	29.10000	-2.00000	2.2329	1.0620	2.1630	1.1981

Specific Building Damage Results - Vertical Displacements

Structure: A | Sub-structure:

Dist.	Coordinates			Displacements
	x	y	z	z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	22.50000	48.10000	-0.50000	0.0
0.85000	23.35000	48.10000	-0.50000	0.0
1.7000	24.20000	48.10000	-0.50000	0.0
2.5500	25.05000	48.10000	-0.50000	0.0
3.4000	25.90000	48.10000	-0.50000	0.0

Structure: B | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	25.90000	48.10000	-0.50000	0.0
0.77500	25.90000	47.32500	-0.50000	0.0
1.5500	25.90000	46.55000	-0.50000	0.0
2.3250	25.90000	45.77500	-0.50000	0.0
3.1000	25.90000	45.00000	-0.50000	0.0

Structure: C | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	25.90000	45.00000	-0.50000	0.0
0.92022	26.82000	44.98000	-0.50000	0.0
1.8404	27.74000	44.96000	-0.50000	0.029441
2.7607	28.66000	44.94000	-0.50000	0.081065
3.6809	29.58000	44.92000	-0.50000	0.18662
4.6011	30.50000	44.90000	-0.50000	0.36915

Structure: D | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	30.50000	44.90000	-0.50000	0.36915
0.90015	30.48333	45.80000	-0.50000	0.22561
1.8003	30.46667	46.70000	-0.50000	0.11723
2.7005	30.45000	47.60000	-0.50000	0.053505
3.6006	30.43333	48.50000	-0.50000	0.014768
4.5008	30.41667	49.40000	-0.50000	0.0
5.4009	30.40000	50.30000	-0.50000	0.0

Structure: E | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	30.40000	50.30000	-0.50000	0.0
0.83333	31.23333	50.30000	-0.50000	0.0
1.6667	32.06667	50.30000	-0.50000	0.023319
2.5000	32.90000	50.30000	-0.50000	0.061567

Structure: F | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	32.90000	50.30000	-0.50000	0.061567
0.93005	32.91000	51.23000	-0.50000	0.033718
1.8601	32.92000	52.16000	-0.50000	0.0043513
2.7902	32.93000	53.09000	-0.50000	0.0
3.7202	32.94000	54.02000	-0.50000	0.0
4.6503	32.95000	54.95000	-0.50000	0.0
5.5803	32.96000	55.88000	-0.50000	0.0
6.5104	32.97000	56.81000	-0.50000	0.0
7.4404	32.98000	57.74000	-0.50000	0.0
8.3705	32.99000	58.67000	-0.50000	0.0
9.3005	33.00000	59.60000	-0.50000	0.0

Structure: G | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	33.00000	59.60000	-0.50000	0.0
1.0000	32.00000	59.60000	-0.50000	0.0
2.0000	31.00000	59.60000	-0.50000	0.0
3.0000	30.00000	59.60000	-0.50000	0.0
4.0000	29.00000	59.60000	-0.50000	0.0
5.0000	28.00000	59.60000	-0.50000	0.0

Structure: H | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	28.00000	59.60000	-0.50000	0.0
0.90062	28.03333	58.70000	-0.50000	0.0
1.8012	28.06667	57.80000	-0.50000	0.0
2.7019	28.10000	56.90000	-0.50000	0.0

Structure: I | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	28.10000	56.90000	-0.50000	0.0
0.90009	27.20000	56.91250	-0.50000	0.0
1.8002	26.30000	56.92500	-0.50000	0.0
2.7003	25.40000	56.93750	-0.50000	0.0
3.6003	24.50000	56.95000	-0.50000	0.0
4.5004	23.60000	56.96250	-0.50000	0.0
5.4005	22.70000	56.97500	-0.50000	0.0

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
6.3006	21.80000	56.98750	-0.50000	0.0
7.2007	20.90000	57.00000	-0.50000	0.0

Structure: J | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	33.00000	59.50000	-0.50000	0.0
1.9500	34.95000	59.50000	-0.50000	0.0
3.9000	36.90000	59.50000	-0.50000	0.0
5.8500	38.85000	59.50000	-0.50000	0.0
7.8000	40.80000	59.50000	-0.50000	0.0
9.7500	42.75000	59.50000	-0.50000	0.0
11.700	44.70000	59.50000	-0.50000	0.0
13.650	46.65000	59.50000	-0.50000	0.0
15.600	48.60000	59.50000	-0.50000	0.0
17.550	50.55000	59.50000	-0.50000	0.0
19.500	52.50000	59.50000	-0.50000	0.0

Structure: K | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	33.00000	52.20000	-0.50000	0.0059792
0.98889	33.98889	52.20000	-0.50000	0.037639
1.9778	34.97778	52.20000	-0.50000	0.070379
2.9667	35.96667	52.20000	-0.50000	0.10803
3.9556	36.95556	52.20000	-0.50000	0.13685
4.9444	37.94444	52.20000	-0.50000	0.14301
5.9333	38.93333	52.20000	-0.50000	0.14301
6.9222	39.92222	52.20000	-0.50000	0.14301
7.9111	40.91111	52.20000	-0.50000	0.14301
8.9000	41.90000	52.20000	-0.50000	0.14301

Structure: L | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	37.70000	59.40000	-0.50000	0.0
0.90000	37.70000	58.50000	-0.50000	0.0
1.8000	37.70000	57.60000	-0.50000	0.0
2.7000	37.70000	56.70000	-0.50000	0.0
3.6000	37.70000	55.80000	-0.50000	0.0
4.5000	37.70000	54.90000	-0.50000	0.0
5.4000	37.70000	54.00000	-0.50000	0.011612
6.3000	37.70000	53.10000	-0.50000	0.056472
7.2000	37.70000	52.20000	-0.50000	0.14301

Structure: M | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	42.00000	59.50000	-1.50000	0.0
0.91259	41.98750	58.58750	-1.50000	0.0
1.8252	41.97500	57.67500	-1.50000	0.0
2.7378	41.96250	56.76250	-1.50000	0.0
3.6503	41.95000	55.85000	-1.50000	0.0
4.5629	41.93750	54.93750	-1.50000	0.0
5.4755	41.92500	54.02500	-1.50000	0.010316
6.3881	41.91250	53.11250	-1.50000	0.055705
7.3007	41.90000	52.20000	-1.50000	0.14301

Structure: N | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	45.50000	53.30000	-4.00000	0.044906
0.87143	45.50000	54.17143	-4.00000	0.0020068
1.7429	45.50000	55.04286	-4.00000	0.0
2.6143	45.50000	55.91429	-4.00000	0.0
3.4857	45.50000	56.78571	-4.00000	0.0
4.3571	45.50000	57.65714	-4.00000	0.0
5.2286	45.50000	58.52857	-4.00000	0.0
6.1000	45.50000	59.40000	-4.00000	0.0

Structure: O | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	37.70000	52.20000	-0.68000	0.14301
0.92000	37.70000	51.28000	-0.68000	0.32595
1.8400	37.70000	50.36000	-0.68000	0.63226
2.7600	37.70000	49.44000	-0.68000	1.0684
3.6800	37.70000	48.52000	-0.68000	1.6496
4.6000	37.70000	47.60000	-0.68000	2.3202

Structure: P | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	45.50000	53.30000	-1.85000	0.044906
0.95000	45.50000	52.35000	-1.85000	0.12279
1.9000	45.50000	51.40000	-1.85000	0.29415
2.8500	45.50000	50.45000	-1.85000	0.59384
3.8000	45.50000	49.50000	-1.85000	1.0279
4.7500	45.50000	48.55000	-1.85000	1.5714
5.7000	45.50000	47.60000	-1.85000	2.0721

Structure: Q | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	41.90000	52.20000	-0.65000	0.14301
0.92000	41.90000	51.28000	-0.65000	0.32595
1.8400	41.90000	50.36000	-0.65000	0.63226
2.7600	41.90000	49.44000	-0.65000	1.0652
3.6800	41.90000	48.52000	-0.65000	1.6031
4.6000	41.90000	47.60000	-0.65000	2.2004

Structure: R | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	33.00000	50.30000	-0.50000	0.067532
0.92635	32.95000	49.37500	-0.50000	0.10476
1.8527	32.90000	48.45000	-0.50000	0.17225
2.7791	32.85000	47.52500	-0.50000	0.25957
3.7054	32.80000	46.60000	-0.50000	0.43204
4.6318	32.75000	45.67500	-0.50000	0.71954
5.5581	32.70000	44.75000	-0.50000	1.1151
6.4845	32.65000	43.82500	-0.50000	1.5578
7.4108	32.60000	42.90000	-0.50000	1.8010

Structure: S | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	54.40000	58.50000	-0.50000	0.0
1.9375	55.56250	56.95000	-0.50000	0.0
3.8750	56.72500	55.40000	-0.50000	0.0
5.8125	57.88750	53.85000	-0.50000	0.0
7.7500	59.05000	52.30000	-0.50000	0.0
9.6875	60.21250	50.75000	-0.50000	0.0
11.625	61.37500	49.20000	-0.50000	0.0
13.562	62.53750	47.65000	-0.50000	0.0
15.500	63.70000	46.10000	-0.50000	0.0
17.438	64.86250	44.55000	-0.50000	0.0
19.375	66.02500	43.00000	-0.50000	0.0
21.313	67.18750	41.45000	-0.50000	0.0
23.250	68.35000	39.90000	-0.50000	0.0
25.188	69.51250	38.35000	-0.50000	0.0
27.125	70.67500	36.80000	-0.50000	0.0
29.063	71.83750	35.25000	-0.50000	0.0
31.000	73.00000	33.70000	-0.50000	0.0

Structure: T | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	45.50000	53.30000	-0.50000	0.044906
1.9859	46.73158	51.74211	-0.50000	0.17621
3.9718	47.96316	50.18421	-0.50000	0.31790
5.9577	49.19474	48.62632	-0.50000	0.24328
7.9436	50.42632	47.06842	-0.50000	0.11307
9.9295	51.65789	45.51053	-0.50000	0.048035
11.915	52.88947	43.95263	-0.50000	0.0087825
13.901	54.12105	42.39474	-0.50000	0.0
15.887	55.35263	40.83684	-0.50000	0.0
17.873	56.58421	39.27895	-0.50000	0.0
19.859	57.81579	37.72105	-0.50000	1.4532
21.845	59.04737	36.16316	-0.50000	1.2802
23.831	60.27895	34.60526	-0.50000	1.0975
25.817	61.51053	33.04737	-0.50000	0.91474
27.803	62.74211	31.48947	-0.50000	0.73200
29.789	63.97368	29.93158	-0.50000	0.54925
31.774	65.20526	28.37368	-0.50000	0.35819
33.760	66.43684	26.81579	-0.50000	0.13235
35.746	67.66842	25.25789	-0.50000	0.0
37.732	68.90000	23.70000	-0.50000	0.0

Structure: U | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	63.00000	47.00000	-0.50000	0.0
0.98600	62.21000	46.41000	-0.50000	0.0
1.9720	61.42000	45.82000	-0.50000	0.0
2.9580	60.63000	45.23000	-0.50000	0.0
3.9440	59.84000	44.64000	-0.50000	0.0
4.9300	59.05000	44.05000	-0.50000	0.0
5.9160	58.26000	43.46000	-0.50000	0.0
6.9020	57.47000	42.87000	-0.50000	0.0
7.8880	56.68000	42.28000	-0.50000	0.0
8.8740	55.89000	41.69000	-0.50000	0.0
9.8600	55.10000	41.10000	-0.50000	0.0

Structure: V | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	55.10000	41.10000	-0.50000	0.0
0.91001	54.37500	40.55000	-0.50000	0.0
1.8200	53.65000	40.00000	-0.50000	0.020621
2.7300	52.92500	39.45000	-0.50000	0.064512
3.6401	52.20000	38.90000	-0.50000	0.15183

Structure: W | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	52.20000	38.90000	-1.70000	0.15183
0.57009	52.55000	38.45000	-1.70000	0.12129

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
1.1402	52.90000	38.00000	-1.70000	0.096244

Structure: X | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	66.40000	42.50000	-0.50000	0.0
0.97201	65.62000	41.92000	-0.50000	0.0
1.9440	64.84000	41.34000	-0.50000	0.0
2.9160	64.06000	40.76000	-0.50000	0.0
3.8880	63.28000	40.18000	-0.50000	0.0
4.8600	62.50000	39.60000	-0.50000	0.0
5.8320	61.72000	39.02000	-0.50000	0.082433
6.8041	60.94000	38.44000	-0.50000	0.81936
7.7761	60.16000	37.86000	-0.50000	0.99709
8.7481	59.38000	37.28000	-0.50000	1.1725
9.7201	58.60000	36.70000	-0.50000	1.3477

Structure: Y | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	58.60000	36.70000	-1.40000	1.3477
0.91001	57.87500	36.15000	-1.40000	1.5109
1.8200	57.15000	35.60000	-1.40000	1.6742
2.7300	56.42500	35.05000	-1.40000	1.8374
3.6401	55.70000	34.50000	-1.40000	2.0006

Structure: Z | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	69.70000	38.10000	-0.50000	0.0
0.95802	68.93000	37.53000	-0.50000	0.0
1.9160	68.16000	36.96000	-0.50000	0.0
2.8741	67.39000	36.39000	-0.50000	0.0
3.8321	66.62000	35.82000	-0.50000	0.0
4.7901	65.85000	35.25000	-0.50000	0.0
5.7481	65.08000	34.68000	-0.50000	0.15187
6.7061	64.31000	34.11000	-0.50000	0.32470
7.6642	63.54000	33.54000	-0.50000	0.49753
8.6222	62.77000	32.97000	-0.50000	0.67035
9.5802	62.00000	32.40000	-0.50000	0.84318

Structure: AA | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	62.00000	32.40000	-1.40000	0.84318
0.91549	61.25000	31.87500	-1.40000	1.0104
1.8310	60.50000	31.35000	-1.40000	1.1776
2.7465	59.75000	30.82500	-1.40000	1.3448
3.6620	59.00000	30.30000	-1.40000	1.5120

Structure: AB | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	73.00000	33.70000	-0.50000	0.0
0.94626	72.23000	33.15000	-0.50000	0.0
1.8925	71.46000	32.60000	-0.50000	0.0
2.8388	70.69000	32.05000	-0.50000	0.0
3.7850	69.92000	31.50000	-0.50000	0.0
4.7313	69.15000	30.95000	-0.50000	0.0
5.6775	68.38000	30.40000	-0.50000	0.0
6.6238	67.61000	29.85000	-0.50000	0.0
7.5700	66.84000	29.30000	-0.50000	0.0087312
8.5163	66.07000	28.75000	-0.50000	0.17719
9.4626	65.30000	28.20000	-0.50000	0.34320

Structure: AC | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	65.30000	28.20000	-0.50000	0.34320
0.84673	64.61667	27.70000	-0.50000	0.48834
1.6935	63.93333	27.20000	-0.50000	0.63073
2.5402	63.25000	26.70000	-0.50000	0.76992
3.3869	62.56667	26.20000	-0.50000	0.90538
4.2336	61.88333	25.70000	-0.50000	1.0365
5.0804	61.20000	25.20000	-0.50000	1.1624

Structure: AD | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	61.20000	25.20000	-1.46000	1.1624
0.98298	60.22500	25.32500	-1.46000	1.3590
1.9660	59.25000	25.45000	-1.46000	1.5556
2.9489	58.27500	25.57500	-1.46000	1.7522
3.9319	57.30000	25.70000	-1.46000	1.9488
4.9149	56.32500	25.82500	-1.46000	2.1454
5.8979	55.35000	25.95000	-1.46000	2.3420
6.8809	54.37500	26.07500	-1.46000	2.5386
7.8638	53.40000	26.20000	-1.46000	2.7352

Structure: AE | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z

[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	61.20000	25.20000	-0.50000	1.1624
0.82651	61.15000	24.37500	-0.50000	1.1456
1.6530	61.10000	23.55000	-0.50000	1.1170
2.4795	61.05000	22.72500	-0.50000	1.0769
3.3061	61.00000	21.90000	-0.50000	1.0260

Structure: AF | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	50.30000	26.50000	-1.46000	3.3553
0.80351	50.22500	25.70000	-1.46000	3.2183
1.6070	50.15000	24.90000	-1.46000	3.0599
2.4105	50.07500	24.10000	-1.46000	2.9000
3.2140	50.00000	23.30000	-1.46000	2.7397

Structure: AG | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	50.00000	23.30000	-0.50000	2.7397
1.9046	51.88889	23.05556	-0.50000	2.6059
3.8093	53.77778	22.81111	-0.50000	2.3439
5.7139	55.66667	22.56667	-0.50000	2.0251
7.6186	57.55556	22.32222	-0.50000	1.6809
9.5232	59.44444	22.07778	-0.50000	1.3238
11.428	61.33333	21.83333	-0.50000	0.95944
13.332	63.22222	21.58889	-0.50000	0.59070
15.237	65.11111	21.34444	-0.50000	0.21909
17.142	67.00000	21.10000	-0.50000	0.0

Structure: AH | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	59.00000	20.70000	-0.50000	1.2644
0.90554	58.10000	20.80000	-0.50000	1.4237
1.8111	57.20000	20.90000	-0.50000	1.5790
2.7166	56.30000	21.00000	-0.50000	1.7291
3.6222	55.40000	21.10000	-0.50000	1.8724
4.5277	54.50000	21.20000	-0.50000	2.0069
5.4332	53.60000	21.30000	-0.50000	2.1297
6.3388	52.70000	21.40000	-0.50000	2.2372

Structure: AI | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	52.70000	21.40000	-0.50000	2.2372
0.97015	52.56000	20.44000	-0.50000	2.0734
1.9403	52.42000	19.48000	-0.50000	1.9023
2.9105	52.28000	18.52000	-0.50000	1.7262
3.8806	52.14000	17.56000	-0.50000	1.5465
4.8508	52.00000	16.60000	-0.50000	1.3642

Structure: AJ | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	52.00000	16.60000	-0.50000	1.3642
0.99641	51.01111	16.72222	-0.50000	1.4161
1.9928	50.02222	16.84444	-0.50000	1.4488
2.9892	49.03333	16.96667	-0.50000	1.4616
3.9857	48.04444	17.08889	-0.50000	1.4600
4.9821	47.05556	17.21111	-0.50000	1.4579
5.9785	46.06667	17.33333	-0.50000	1.4558
6.9749	45.07778	17.45556	-0.50000	1.4537
7.9713	44.08889	17.57778	-0.50000	1.4516
8.9677	43.10000	17.70000	-0.50000	1.4495

Structure: AK | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	43.10000	17.70000	-0.50000	1.4495
0.98995	43.24000	18.68000	-0.50000	1.6474
1.9799	43.38000	19.66000	-0.50000	1.8454
2.9698	43.52000	20.64000	-0.50000	2.0434
3.9598	43.66000	21.62000	-0.50000	2.2414
4.9497	43.80000	22.60000	-0.50000	2.4394

Structure: AL | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	43.80000	22.60000	-0.50000	2.4394
0.94763	42.86000	22.72000	-0.50000	2.4381
1.8953	41.92000	22.84000	-0.50000	2.4369
2.8429	40.98000	22.96000	-0.50000	2.4356
3.7905	40.04000	23.08000	-0.50000	2.4344
4.7381	39.10000	23.20000	-0.50000	2.4332

Structure: AM | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	39.10000	23.20000	-0.50000	2.4332
0.90247	39.03333	22.30000	-0.50000	2.2530
1.8049	38.96667	21.40000	-0.50000	2.0728
2.7074	38.90000	20.50000	-0.50000	1.8926

Structure: AN | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	38.90000	20.50000	-0.50000	1.8926
0.83442	38.07500	20.62500	-0.50000	1.8955
1.6688	37.25000	20.75000	-0.50000	1.8983
2.5032	36.42500	20.87500	-0.50000	1.9011
3.3377	35.60000	21.00000	-0.50000	1.9037

Structure: AO | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	35.60000	21.00000	-0.50000	1.9037
0.83931	35.70000	21.83333	-0.50000	2.0715
1.6786	35.80000	22.66667	-0.50000	2.2393
2.5179	35.90000	23.50000	-0.50000	2.4070

Structure: AP | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	35.90000	23.50000	-0.50000	2.4070
0.89107	35.02000	23.64000	-0.50000	2.3904
1.7821	34.14000	23.78000	-0.50000	2.3436
2.6732	33.26000	23.92000	-0.50000	2.2703
3.5643	32.38000	24.06000	-0.50000	2.1753
4.4553	31.50000	24.20000	-0.50000	2.0631

Structure: AQ | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	31.50000	24.20000	-0.50000	2.0631
0.98995	31.36000	23.22000	-0.50000	1.9121
1.9799	31.22000	22.24000	-0.50000	1.7510
2.9698	31.08000	21.26000	-0.50000	1.5827
3.9598	30.94000	20.28000	-0.50000	1.4089
4.9497	30.80000	19.30000	-0.50000	1.2309

Structure: AR | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	35.60000	12.40000	-0.50000	0.19920
0.94130	35.72222	13.33333	-0.50000	0.38746
1.8826	35.84444	14.26667	-0.50000	0.57572
2.8239	35.96667	15.20000	-0.50000	0.76397
3.7652	36.08889	16.13333	-0.50000	0.95223
4.7065	36.21111	17.06667	-0.50000	1.1405
5.6478	36.33333	18.00000	-0.50000	1.3288
6.5891	36.45556	18.93333	-0.50000	1.5170
7.5304	36.57778	19.86667	-0.50000	1.7053
8.4717	36.70000	20.80000	-0.50000	1.8935

Structure: AS | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	44.70000	9.30000	-0.50000	0.0
0.90683	44.81111	10.20000	-0.50000	0.0083731
1.8137	44.92222	11.10000	-0.50000	0.18973
2.7205	45.03333	12.00000	-0.50000	0.37109
3.6273	45.14444	12.90000	-0.50000	0.55244
4.5342	45.25556	13.80000	-0.50000	0.73380
5.4410	45.36667	14.70000	-0.50000	0.91515
6.3478	45.47778	15.60000	-0.50000	1.0965
7.2547	45.58889	16.50000	-0.50000	1.2779
8.1615	45.70000	17.40000	-0.50000	1.4592

Structure: AT | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	54.50000	10.00000	-0.50000	0.0
1.8461	54.71667	11.83333	-0.50000	0.30570
3.6922	54.93333	13.66667	-0.50000	0.63861
5.5383	55.15000	15.50000	-0.50000	0.96105
7.3844	55.36667	17.33333	-0.50000	1.2683
9.2305	55.58333	19.16667	-0.50000	1.5526
11.077	55.80000	21.00000	-0.50000	1.8019

Structure: AU | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	33.10000	38.60000	-2.00000	2.4280
0.88891	32.21250	38.65000	-2.00000	1.7165
1.7778	31.32500	38.70000	-2.00000	1.1309

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
2.6667	30.43750	38.75000	-2.00000	0.66622
3.5556	29.55000	38.80000	-2.00000	0.35691
4.4445	28.66250	38.85000	-2.00000	0.16454
5.3334	27.77500	38.90000	-2.00000	0.066830
6.2224	26.88750	38.95000	-2.00000	0.019805
7.1113	26.00000	39.00000	-2.00000	0.0

Structure: AV | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	26.00000	39.00000	-2.00000	0.0
0.92195	25.94000	38.08000	-2.00000	0.0
1.8439	25.88000	37.16000	-2.00000	0.0
2.7659	25.82000	36.24000	-2.00000	0.0
3.6878	25.76000	35.32000	-2.00000	0.0
4.6098	25.70000	34.40000	-2.00000	0.0
5.5317	25.64000	33.48000	-2.00000	0.0
6.4537	25.58000	32.56000	-2.00000	0.0
7.3756	25.52000	31.64000	-2.00000	0.0
8.2976	25.46000	30.72000	-2.00000	0.0
9.2195	25.40000	29.80000	-2.00000	0.0

Structure: AW | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	25.40000	29.80000	-2.00000	0.0
1.8869	27.28333	29.68333	-2.00000	0.025690
3.7739	29.16667	29.56667	-2.00000	0.14409
5.6608	31.05000	29.45000	-2.00000	0.43160
7.5478	32.93333	29.33333	-2.00000	0.79708
9.4347	34.81667	29.21667	-2.00000	1.5716
11.322	36.70000	29.10000	-2.00000	2.7362

Specific Building Damage Results - All Segments

Structure: A | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	All settlements are less than the Settlement Trough Limit Sensitivity.										

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

Structure: B | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	All settlements are less than the Settlement Trough Limit Sensitivity.										

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

Structure: C | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	3.6809	0.91922	Hogging	0.0	0.019322	0.019322	-254.49E-6	-198.32E-6	10232.	0 (Negligible)

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

Structure: D | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	1.8003	Hogging	966.79E-6	0.0064624	0.0065809	-201.53E-6	159.45E-6	21589.	0 (Negligible)

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

Structure: E | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	All settlements are less than the Settlement Trough Limit Sensitivity.										

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

Structure: F | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	All settlements are less than the Settlement Trough Limit Sensitivity.										

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

Structure: G | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category

[m]		[m]	[m]	[%]	[%]	[%]		[m]
0.0	All settlements are less than the Settlement Trough Limit Sensitivity.							

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

Structure: H | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	All settlements are less than the Settlement Trough Limit Sensitivity.										

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

Structure: I | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	All settlements are less than the Settlement Trough Limit Sensitivity.										

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

Structure: J | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	All settlements are less than the Settlement Trough Limit Sensitivity.										

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

Structure: K | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	2.9667	3.9556	Sagging	506.75E-6	-0.0048460	0.0010085	102.42E-6	-38.078E-6	65133.	0 (Negligible)
	2	6.9222	1.9768	None	0.0	0.0	0.0	0.0	0.0	-	0 (Negligible)

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

Structure: L | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	7.1990	0.0	None	0.0	0.0	0.0	-333.22E-6	-96.121E-6	18500.	0 (Negligible)

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

Structure: M | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	7.2997	0.0	None	0.0	0.0	0.0	-333.16E-6	-95.636E-6	19090.	0 (Negligible)

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

Structure: N | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	All settlements are less than the Settlement Trough Limit Sensitivity.										

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

Structure: O | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	4.5990	Hogging	0.0082887	0.046211	0.053454	-649.98E-6	-728.35E-6	6422.2	1 (Very Slight)

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

Structure: P | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.95000	3.7521	Hogging	0.0066153	0.032175	0.035966	-332.60E-6	-571.89E-6	7133.8	0 (Negligible)
	2	4.7021	0.99690	Sagging	201.27E-6	-0.12974	0.025948	0.0013797	-571.89E-6	11332.	0 (Negligible)

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

Structure: Q | Sub-structure:

Vertical Offset from Line for Vertical	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal	Maximum Gradient of Vertical	Min. Radius of Curvature	Damage Category

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.0	4.5990	Hogging	0.0072426	0.033397	0.039768	-336.39E-6	-648.98E-6	6821.8	0 (Negligible)

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

Structure: R | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.92635	4.6368	Hogging	0.0060199	0.025960	0.031474	-313.88E-6	-477.91E-6	8142.8	0 (Negligible)
	2	5.5632	1.8466	Sagging	0.0053293	-0.074843	0.015243	0.0014179	-477.91E-6	3287.4	0 (Negligible)

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

Structure: S | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	All settlements are less than the Settlement Trough Limit Sensitivity.										

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

Structure: T | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	1.9859	5.4076	Sagging	0.0027832	-0.012323	0.0028827	221.76E-6	-71.359E-6	33207.	0 (Negligible)
	2	7.3935	11.303	Hogging	0.0050045	0.0015338	0.0061316	115.07E-6	-731.82E-6	10835.	0 (Negligible)
	3	18.696	12.616	Sagging	0.0068274	750.65E-6	0.010713	115.07E-6	-731.82E-6	8765.1	0 (Negligible)
	4	31.312	2.4485	Sagging	267.42E-6	0.0	261.82E-6	0.0	113.72E-6	55432.	0 (Negligible)

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

Structure: U | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	All settlements are less than the Settlement Trough Limit Sensitivity.										

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

Structure: V | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	3.6391	0.0	None	0.0	0.0	0.0	-282.82E-6	-95.931E-6	17084.	0 (Negligible)

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

Structure: W | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.0	0.57009	Sagging	0.0	0.0053346	0.0053346	-53.344E-6	53.569E-6	59139.	0 (Negligible)

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

Structure: X | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	6.8041	2.7064	Sagging	56.742E-6	0.013802	0.013829	-149.00E-6	-758.14E-6	6718.5	0 (Negligible)
	2	9.5105	0.20859	None	0.0	0.014902	0.014902	-149.00E-6	-180.19E-6	4.4001E+6	0 (Negligible)

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

Structure: Y | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.0	3.6391	Sagging	0.0	0.016684	0.016684	-182.02E-6	-179.35E-6	427.94E+6	0 (Negligible)

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

Structure: Z | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category

[m]		[m]	[m]		[%]	[%]	[%]				[m]	
0.0		1	5.7481	1.9160	Hogging	0.0	0.0	0.0	0.0	-180.40E-6	18945.	0 (Negligible)
		2	7.6641	1.9150	Sagging	0.0	0.0	0.0	0.0	-180.40E-6	169.34E+9	0 (Negligible)

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

Structure: AA | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.6610	Sagging	0.0	0.015110	0.015110	-159.08E-6	-182.60E-6	761.45E+6	0 (Negligible)

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

Structure: AB | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	8.5163	0.44421	Sagging	0.0	0.0	0.0	0.0	-178.02E-6	23512.	0 (Negligible)
	2	8.9605	0.50104	Sagging	0.0	0.0	0.0	0.0	-175.45E-6	20845.	0 (Negligible)

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

Structure: AC | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	5.0794	Sagging	336.52E-6	0.0039947	0.0044826	-102.28E-6	-171.41E-6	134410.	0 (Negligible)

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

Structure: AD | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	7.8628	Sagging	0.0	0.023814	0.023815	-316.46E-6	-199.96E-6	130.44E+6	0 (Negligible)

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

Structure: AE | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.3051	Sagging	686.24E-6	-0.0010690	422.89E-6	22.100E-6	61.633E-6	56990.	0 (Negligible)

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

Structure: AF | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.2130	Sagging	515.01E-6	-0.029263	0.0058586	0.0021989	199.40E-6	24851.	0 (Negligible)

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

Structure: AG | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	11.652	Sagging	0.0017119	0.0011028	0.0033851	461.88E-6	193.59E-6	24828.	0 (Negligible)
	2	11.652	3.5850	Sagging	37.502E-6	0.0023340	0.0023805	-49.792E-6	195.11E-6	31904.	0 (Negligible)

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

Structure: AH | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	6.3378	Sagging	818.82E-6	0.0069390	0.0073579	-134.73E-6	-175.94E-6	50441.	0 (Negligible)

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

Structure: AI | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	4.8498	Sagging	293.53E-6	0.014941	0.015057	-162.98E-6	187.89E-6	121050.	0 (Negligible)

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

Vertical Offset from Line for Vertical Movement	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement	Maximum Gradient of Vertical Displacement	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	5.9785	Sagging	904.77E-6	-0.0024738	736.61E-6	55.654E-6	-52.027E-6	51448.	0 (Negligible)
	2	5.9785	0.99641	None	0.0	2.1408E-6	2.1100E-6	0.0	2.1114E-6	-	0 (Negligible)
	3	6.9749	1.9918	Sagging	0.0	2.1389E-6	2.1100E-6	0.0	2.1114E-6	17.599E+12	0 (Negligible)

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

Structure: AK | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	4.9487	Sagging	0.0	0.023222	0.023222	-273.73E-6	-199.95E-6	196.80E+6	0 (Negligible)

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

Structure: AL | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	1.8953	Sagging	0.0	1.2333E-6	1.2517E-6	0.0	1.3112E-6	14.233E+12	0 (Negligible)
	2	1.8953	0.0	None	0.0	0.0	0.0	0.0	1.3112E-6	-	0 (Negligible)
	3	1.8953	1.3050	Sagging	0.0	1.2320E-6	1.2517E-6	0.0	1.3112E-6	33.477E+12	0 (Negligible)
	4	3.2002	1.5369	Sagging	0.0	1.2310E-6	1.2517E-6	0.0	1.3112E-6	3.7263E+12	0 (Negligible)

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

Structure: AM | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	2.7064	Sagging	0.0	0.025197	0.025197	-273.10E-6	199.60E-6	196.75E+6	0 (Negligible)

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

Structure: AN | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	0.83442	Hogging	0.0	6.3509E-6	6.3300E-6	0.0	-3.3683E-6	18.792E+12	0 (Negligible)
	2	0.83442	2.5022	Sagging	3.9225E-6	-562.61E-6	112.55E-6	17.019E-6	-3.3683E-6	3.7769E+6	0 (Negligible)

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

Structure: AO | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	2.5169	Sagging	1.2784E-6	0.025126	0.025126	-270.60E-6	-199.86E-6	18.121E+6	0 (Negligible)

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

Structure: AP | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	4.4543	Sagging	0.0016623	-0.017895	0.0037032	321.92E-6	125.86E-6	25453.	0 (Negligible)

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

Structure: AQ | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	4.9487	Sagging	418.97E-6	0.011494	0.011663	-142.20E-6	179.74E-6	92298.	0 (Negligible)

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

Structure: AR | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	0.94198	None	0.0	0.0	0.0	0.0	-200.00E-6	89.267E+9	0

Vertical Offset from Line for Vertical Movement	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement	Maximum Gradient of Vertical Displacement	Min. Radius of Curvature	Damage Category
											(Negligible)
	2	0.94198	7.5287	Sagging	0.0	0.013329	0.013330	-215.70E-6	-200.00E-6	68.343E+6	0
											(Negligible)

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

Structure: AS | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	1.8137	0.90683	None	0.0	0.0	0.0	0.0	-199.99E-6	19016.	0
											(Negligible)
	2	2.7205	0.0	None	0.0	0.0	0.0	0.0	-199.99E-6	-	0
											(Negligible)
	3	2.7205	5.4400	Sagging	0.0	0.010196	0.010196	-187.90E-6	-199.99E-6	62.262E+6	0
											(Negligible)

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

Structure: AT | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	1.8461	1.6386	None	0.0	0.0	0.0	0.0	-180.33E-6	191570.	0
											(Negligible)
	2	3.4847	7.5909	Sagging	661.94E-6	0.0072829	0.0076835	-117.56E-6	-180.33E-6	89349.	0
											(Negligible)

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

Structure: AU | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	4.4445	Hogging	0.0090691	0.052345	0.058705	-666.16E-6	799.97E-6	5775.4	1 (Very Slight)

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

Structure: AV | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	All settlements are less than the Settlement Trough Limit Sensitivity.										

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

Structure: AW | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	3.7739	7.5468	Hogging	0.0084823	0.022198	0.031327	-334.33E-6	-617.02E-6	9027.7	0
											(Negligible)

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

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

Structure: A | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	

Structure: B | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	

Structure: C | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0	0.019322	-198.32E-6	0.36895	0.019322	-254.49E-6	-198.32E-6	10232.		- 0 (Negligible)

Structure: D | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	966.79E-6	0.0064624	159.45E-6	0.36915	0.0065809	-201.53E-6	159.45E-6	21589.		- 0 (Negligible)

Structure: E | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	

Structure: F | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	

Structure: G | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	

Structure: H | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	

Structure: I | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	

Structure: J | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	

Structure: K | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	506.75E-6	-0.0048460	-38.078E-6	0.14301	0.0010085	102.42E-6	-38.078E-6	-	65133.	0 (Negligible)

Structure: L | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0	0.0	-96.121E-6	0.14291	0.0	-333.22E-6	-96.121E-6	-	-	0 (Negligible)

Structure: M | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0	0.0	-95.636E-6	0.14291	0.0	-333.16E-6	-95.636E-6	-	-	0 (Negligible)

Structure: N | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	

Structure: O | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0082887	0.046211	-728.35E-6	2.3194	0.053454	-649.98E-6	-728.35E-6	6422.2		1 (Very Slight)

Structure: P | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Maximum Slope [%]	Maximum Settlement [mm]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging) [m]	Min. Radius of Curvature (Sagging) [m]	Damage Category
0.0	0.0066153	-0.12974	-571.89E-6	2.0716	0.035966	0.0013797	-571.89E-6	7133.8	11332.	0 (Negligible)

Structure: Q | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Maximum Slope [%]	Maximum Settlement [mm]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging) [m]	Min. Radius of Curvature (Sagging) [m]	Damage Category
0.0	0.0072426	0.033397	-648.98E-6	2.1998	0.039768	-336.39E-6	-648.98E-6	6821.8	-	0 (Negligible)

Structure: R | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Maximum Slope [%]	Maximum Settlement [mm]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging) [m]	Min. Radius of Curvature (Sagging) [m]	Damage Category
0.0	0.0060199	-0.074843	-477.91E-6	1.8007	0.031474	0.0014179	-477.91E-6	8142.8	3287.4	0 (Negligible)

Structure: S | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Maximum Slope [%]	Maximum Settlement [mm]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging) [m]	Min. Radius of Curvature (Sagging) [m]	Damage Category

Structure: T | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Maximum Slope [%]	Maximum Settlement [mm]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging) [m]	Min. Radius of Curvature (Sagging) [m]	Damage Category
0.0	0.0068274	-0.012323	-731.82E-6	1.4434	0.010713	221.76E-6	-731.82E-6	10835.	8765.1	0 (Negligible)

Structure: U | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Maximum Slope [%]	Maximum Settlement [mm]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging) [m]	Min. Radius of Curvature (Sagging) [m]	Damage Category

Structure: V | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Maximum Slope [%]	Maximum Settlement [mm]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging) [m]	Min. Radius of Curvature (Sagging) [m]	Damage Category
0.0	0.0	0.0	-95.931E-6	0.15174	0.0	-282.82E-6	-95.931E-6	-	-	0 (Negligible)

Structure: W | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Maximum Slope [%]	Maximum Settlement [mm]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging) [m]	Min. Radius of Curvature (Sagging) [m]	Damage Category
0.0	0.0	0.0053346	53.569E-6	0.15183	0.0053346	-53.344E-6	53.569E-6	-	59139.	0 (Negligible)

Structure: X | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Maximum Slope [%]	Maximum Settlement [mm]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging) [m]	Min. Radius of Curvature (Sagging) [m]	Damage Category
0.0	56.742E-6	0.014902	-758.14E-6	1.3475	0.014902	-149.00E-6	-758.14E-6	-	6718.5	0 (Negligible)

Structure: Y | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Maximum Slope [%]	Maximum Settlement [mm]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging) [m]	Min. Radius of Curvature (Sagging) [m]	Damage Category
0.0	0.0	0.016684	-179.35E-6	2.0005	0.016684	-182.02E-6	-179.35E-6	-	427.94E+6	0 (Negligible)

Structure: Z | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Deflection Ratio [%]	Average Horizontal Strain [%]	Maximum Slope [%]	Maximum Settlement [mm]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging) [m]	Min. Radius of Curvature (Sagging) [m]	Damage Category
0.0	0.0	0.0	-180.40E-6	0.84300	0.0	0.0	-180.40E-6	18945.	169.34E+9	0 (Negligible)

Vertical Offset from Line for Vertical	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement	Maximum Gradient of Vertical Displacement	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category

Structure: AA | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0	0.015110	-182.60E-6	1.5118	0.015110	-159.08E-6	-182.60E-6	-	761.45E+6	0 (Negligible)

Structure: AB | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0	0.0	-178.02E-6	0.34303	0.0	0.0	-178.02E-6	-	20845.	0 (Negligible)

Structure: AC | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	336.52E-6	0.0039947	-171.41E-6	1.1623	0.0044826	-102.28E-6	-171.41E-6	-	134410.	0 (Negligible)

Structure: AD | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0	0.023814	-199.96E-6	2.7350	0.023815	-316.46E-6	-199.96E-6	-	130.44E+6	0 (Negligible)

Structure: AE | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	686.24E-6	-0.0010690	61.633E-6	1.1624	422.89E-6	22.100E-6	61.633E-6	-	56990.	0 (Negligible)

Structure: AF | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	515.01E-6	-0.029263	199.40E-6	3.3553	0.0058586	0.0021989	199.40E-6	-	24851.	0 (Negligible)

Structure: AG | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0017119	0.0023340	195.11E-6	2.7397	0.0033851	461.88E-6	195.11E-6	-	24828.	0 (Negligible)

Structure: AH | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	818.82E-6	0.0069390	-175.94E-6	2.2371	0.0073579	-134.73E-6	-175.94E-6	-	50441.	0 (Negligible)

Structure: AI | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	293.53E-6	0.014941	187.89E-6	2.2372	0.015057	-162.98E-6	187.89E-6	-	121050.	0 (Negligible)

Structure: AJ | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	904.77E-6	-0.0024738	-52.027E-6	1.4615	736.61E-6	55.654E-6	-52.027E-6	-	51448.	0 (Negligible)

Structure: AK | Sub-structure: Sub #

Vertical Offset from	Deflection Ratio	Average Horizontal	Maximum Slope	Maximum Settlement	Max. Tensile	Maximum Gradient of	Maximum Gradient of	Min. Radius of	Min. Radius of	Damage Category

Line for Vertical Movement	Strain		Strain	Horizontal Displacement Curve	Vertical Displacement Curve	Curvature (Hogging)	Curvature (Sagging)	
Calculations								
[m]	[%]	[%]	[mm]	[%]		[m]	[m]	
0.0	0.0	0.023222 -199.95E-6	2.4392	0.023222	-273.73E-6	-199.95E-6	- 196.80E+6	0 (Negligible)

Structure: AL | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0	1.2333E-6 1.3112E-6		2.4394	1.2517E-6	0.0	1.3112E-6	- 3.7263E+12	0	(Negligible)

Structure: AM | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0	0.025197 199.60E-6		2.4332	0.025197	-273.10E-6	199.60E-6	- 196.75E+6	0	(Negligible)

Structure: AN | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	3.9225E-6	-562.61E-6 -3.3683E-6		1.9037	112.55E-6	17.019E-6	-3.3683E-6	18.792E+12	3.7769E+6	0 (Negligible)

Structure: AO | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	1.2784E-6	0.025126 -199.86E-6		2.4068	0.025126	-270.60E-6	-199.86E-6	- 18.121E+6	0	(Negligible)

Structure: AP | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0016623	-0.017895 125.86E-6		2.4070	0.0037032	321.92E-6	125.86E-6	-	25453.	0 (Negligible)

Structure: AQ | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	418.97E-6	0.011494 179.74E-6		2.0631	0.011663	-142.20E-6	179.74E-6	-	92298.	0 (Negligible)

Structure: AR | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0	0.013329 -200.00E-6		1.8933	0.013330	-215.70E-6	-200.00E-6	- 68.343E+6	0	(Negligible)

Structure: AS | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0	0.010196 -199.99E-6		1.4590	0.010196	-187.90E-6	-199.99E-6	- 62.262E+6	0	(Negligible)

Structure: AT | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	661.94E-6	0.0072829 -180.33E-6		1.8017	0.0076835	-117.56E-6	-180.33E-6	-	89349.	0 (Negligible)

Structure: AU | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0090691	0.052345 799.97E-6		2.4280	0.058705	-666.16E-6	799.97E-6	5775.4	-	1 (Very Slight)

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	

Structure: AV | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	

Structure: AW | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0084823	0.022198	-617.02E-6	2.7356	0.031327	-334.33E-6	-617.02E-6	9027.7		- 0 (Negligible)

Specific Building Damage Results - Critical Segments within Each Structure

Structure Name	Parameter	Critical Sub-Structure	Critical Segment	Start	End	Curvature	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
				[m]	[m]			[mm]	[%]	[m]	[m]	
A	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
B	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
C	Maximum Slope		1	3.6809	4.6001	Hogging	**198.32E-6**	0.36895	0.019322	10232.		- 0 (Negligible)
	Maximum Settlement		1	3.6809	4.6001	Hogging	198.32E-6	**0.36895**	0.019322	10232.		- 0 (Negligible)
	Max. Tensile Strain		1	3.6809	4.6001	Hogging	198.32E-6	0.36895	**0.019322**	10232.		- 0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	3.6809	4.6001	Hogging	198.32E-6	0.36895	0.019322	**10232.**		- 0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	- -
D	Maximum Slope		1	0.0	1.8003	Hogging	**159.45E-6**	0.36915	0.0065809	21589.		- 0 (Negligible)
	Maximum Settlement		1	0.0	1.8003	Hogging	159.45E-6	**0.36915**	0.0065809	21589.		- 0 (Negligible)
	Max. Tensile Strain		1	0.0	1.8003	Hogging	159.45E-6	0.36915	**0.0065809**	21589.		- 0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	0.0	1.8003	Hogging	159.45E-6	0.36915	0.0065809	**21589.**		- 0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	- -
E	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
F	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
G	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
H	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
I	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
J	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
K	Maximum Slope		1	2.9667	6.9222	Sagging	**38.078E-6**	0.14301	0.0010085	-	65133.	0 (Negligible)
	Maximum Settlement		1	2.9667	6.9222	Sagging	38.078E-6	**0.14301**	0.0010085	-	65133.	0 (Negligible)
	Max. Tensile Strain		1	2.9667	6.9222	Sagging	38.078E-6	0.14301	**0.0010085**	-	65133.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	- -
	Min. Radius of Curvature (Sagging)		1	2.9667	6.9222	Sagging	38.078E-6	0.14301	0.0010085	-	**65133.**	0 (Negligible)
L	Maximum Slope		1	7.1990	7.1990	Sagging	**96.121E-6**	0.14291	0.0	-	18500.	0 (Negligible)
	Maximum Settlement		1	7.1990	7.1990	Sagging	96.121E-6	**0.14291**	0.0	-	18500.	0 (Negligible)
	Max. Tensile Strain		1	7.1990	7.1990	Sagging	96.121E-6	0.14291	**0.0**	-	18500.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	- -
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	- -
M	Maximum Slope		1	7.2997	7.2997	Sagging	**95.636E-6**	0.14291	0.0	-	19090.	0 (Negligible)
	Maximum Settlement		1	7.2997	7.2997	Sagging	95.636E-6	**0.14291**	0.0	-	19090.	0 (Negligible)
	Max. Tensile Strain		1	7.2997	7.2997	Sagging	95.636E-6	0.14291	**0.0**	-	19090.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	- -
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	- -
N	All settlements are less than the Settlement Trough Limit Sensitivity.											

Structure Name	Parameter	Critical Sub-Structure	Critical Segment	Start	End	Curvature	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
O	Maximum Slope		1	0.0	4.5990	Hogging	**728.35E-6**	2.3194	0.053454	6422.2		- 1 (Very Slight)
	Maximum Settlement		1	0.0	4.5990	Hogging	728.35E-6	**2.3194**	0.053454	6422.2		- 1 (Very Slight)
	Max. Tensile Strain		1	0.0	4.5990	Hogging	728.35E-6	2.3194	**0.053454**	6422.2		- 1 (Very Slight)
	Min. Radius of Curvature (Hogging)		1	0.0	4.5990	Hogging	728.35E-6	2.3194	0.053454	**6422.2**		- 1 (Very Slight)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	- -
P	Maximum Slope	Sub #	1	0.95000	4.7021	Hogging	**571.89E-6**	1.5440	0.035966	7133.8		- 0 (Negligible)
	Maximum Settlement	Sub #	2	4.7021	5.6990	Sagging	571.89E-6	**2.0716**	0.025948	-	11332.	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.95000	4.7021	Hogging	571.89E-6	1.5440	**0.035966**	7133.8		- 0 (Negligible)
	Min. Radius of Curvature (Hogging)	Sub #	1	0.95000	4.7021	Hogging	571.89E-6	1.5440	0.035966	**7133.8**		- 0 (Negligible)
	Min. Radius of Curvature (Sagging)	Sub #	2	4.7021	5.6990	Sagging	571.89E-6	2.0716	0.025948	-	**11332.**	0 (Negligible)
Q	Maximum Slope		1	0.0	4.5990	Hogging	**648.98E-6**	2.1998	0.039768	6821.8		- 0 (Negligible)
	Maximum Settlement		1	0.0	4.5990	Hogging	648.98E-6	**2.1998**	0.039768	6821.8		- 0 (Negligible)
	Max. Tensile Strain		1	0.0	4.5990	Hogging	648.98E-6	2.1998	**0.039768**	6821.8		- 0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	0.0	4.5990	Hogging	648.98E-6	2.1998	0.039768	**6821.8**		- 0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	- -
R	Maximum Slope		1	0.92635	5.5632	Hogging	**477.91E-6**	1.1175	0.031474	8142.8		- 0 (Negligible)
	Maximum Settlement		2	5.5632	7.4098	Sagging	477.91E-6	**1.8007**	0.015243	-	3287.4	0 (Negligible)
	Max. Tensile Strain		1	0.92635	5.5632	Hogging	477.91E-6	1.1175	**0.031474**	8142.8		- 0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	0.92635	5.5632	Hogging	477.91E-6	1.1175	0.031474	**8142.8**		- 0 (Negligible)
	Min. Radius of Curvature (Sagging)		2	5.5632	7.4098	Sagging	477.91E-6	1.8007	0.015243	-	**3287.4**	0 (Negligible)
S	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
T	Maximum Slope		2	7.3935	18.696	Hogging	**731.82E-6**	0.60227	0.0061316	10835.		- 0 (Negligible)
	Maximum Settlement		3	18.696	31.312	Sagging	731.82E-6	**1.4434**	0.010713	-	8765.1	0 (Negligible)
	Max. Tensile Strain		3	18.696	31.312	Sagging	731.82E-6	1.4434	**0.010713**	-	8765.1	0 (Negligible)
	Min. Radius of Curvature (Hogging)		2	7.3935	18.696	Hogging	731.82E-6	0.60227	0.0061316	**10835.**		- 0 (Negligible)
	Min. Radius of Curvature (Sagging)		3	18.696	31.312	Sagging	731.82E-6	1.4434	0.010713	-	**8765.1**	0 (Negligible)
U	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
V	Maximum Slope		1	3.6391	3.6391	Sagging	**95.931E-6**	0.15174	0.0	-	17084.	0 (Negligible)
	Maximum Settlement		1	3.6391	3.6391	Sagging	95.931E-6	**0.15174**	0.0	-	17084.	0 (Negligible)
	Max. Tensile Strain		1	3.6391	3.6391	Sagging	95.931E-6	0.15174	**0.0**	-	17084.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	- -
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	- -
W	Maximum Slope		1	0.0	0.57009	Sagging	**53.569E-6**	0.15183	0.0053346	-	59139.	0 (Negligible)
	Maximum Settlement		1	0.0	0.57009	Sagging	53.569E-6	**0.15183**	0.0053346	-	59139.	0 (Negligible)
	Max. Tensile Strain		1	0.0	0.57009	Sagging	53.569E-6	0.15183	**0.0053346**	-	59139.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	- -
	Min. Radius of Curvature (Sagging)		1	0.0	0.57009	Sagging	53.569E-6	0.15183	0.0053346	-	**59139.**	0 (Negligible)
X	Maximum Slope		1	6.8041	9.5105	Sagging	**758.14E-6**	1.3099	0.013829	-	6718.5	0 (Negligible)
	Maximum Settlement		2	9.5105	9.7191	Sagging	180.19E-6	**1.3475**	0.014902	-	4.4001E+6	0 (Negligible)
	Max. Tensile Strain		2	9.5105	9.7191	Sagging	180.19E-6	1.3475	**0.014902**	-	4.4001E+6	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	- -
	Min. Radius of Curvature (Sagging)		1	6.8041	9.5105	Sagging	758.14E-6	1.3099	0.013829	-	**6718.5**	0 (Negligible)
Y	Maximum Slope		1	0.0	3.6391	Sagging	**179.35E-6**	2.0005	0.016684	-	427.94E+6	0 (Negligible)
	Maximum Settlement		1	0.0	3.6391	Sagging	179.35E-6	**2.0005**	0.016684	-	427.94E+6	0 (Negligible)
	Max. Tensile Strain		1	0.0	3.6391	Sagging	179.35E-6	2.0005	**0.016684**	-	427.94E+6	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	- -
	Min. Radius of Curvature (Sagging)		1	0.0	3.6391	Sagging	179.35E-6	2.0005	0.016684	-	**427.94E+6**	0 (Negligible)
Z	Maximum Slope		1	5.7481	7.6641	Hogging	**180.40E-6**	0.49753	0.0	18945.		- 0 (Negligible)
	Maximum Settlement		2	7.6641	9.5792	Sagging	180.40E-6	**0.84300**	0.0	-	169.34E+9	0 (Negligible)
	Max. Tensile Strain		1	5.7481	7.6641	Hogging	180.40E-6	0.49753	**0.0**	18945.		- 0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	5.7481	7.6641	Hogging	180.40E-6	0.49753	0.0	**18945.**		- 0 (Negligible)
	Min. Radius of Curvature (Sagging)		2	7.6641	9.5792	Sagging	180.40E-6	0.84300	0.0	-	**169.34E+9**	0 (Negligible)
AA	Maximum Slope		1	0.0	3.6610	Sagging	**182.60E-6**	1.5118	0.015110	-	761.45E+6	0 (Negligible)
	Maximum Settlement		1	0.0	3.6610	Sagging	182.60E-6	**1.5118**	0.015110	-	761.45E+6	0 (Negligible)

Structure Name	Parameter	Critical Sub-Structure	Critical Segment	Start	End	Curvature	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
	Max. Tensile Strain		1	0.0	3.6610	Sagging	182.60E-6	1.5118	**0.015110**	-	761.45E+6	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		1	0.0	3.6610	Sagging	182.60E-6	1.5118	0.015110	-	**761.45E+6**	0 (Negligible)
AB	Maximum Slope		1	8.5163	8.9605	Sagging	**178.02E-6**	0.25512	0.0	-	23512.	0 (Negligible)
	Maximum Settlement		2	8.9605	9.4616	Sagging	175.45E-6	**0.34303**	0.0	-	20845.	0 (Negligible)
	Max. Tensile Strain		1	8.5163	8.9605	Sagging	178.02E-6	0.25512	**0.0**	-	23512.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		2	8.9605	9.4616	Sagging	175.45E-6	0.34303	0.0	-	**20845.**	0 (Negligible)
AC	Maximum Slope		1	0.0	5.0794	Sagging	**171.41E-6**	1.1623	0.0044826	-	134410.	0 (Negligible)
	Maximum Settlement		1	0.0	5.0794	Sagging	171.41E-6	**1.1623**	0.0044826	-	134410.	0 (Negligible)
	Max. Tensile Strain		1	0.0	5.0794	Sagging	171.41E-6	1.1623	**0.0044826**	-	134410.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		1	0.0	5.0794	Sagging	171.41E-6	1.1623	0.0044826	-	**134410.**	0 (Negligible)
AD	Maximum Slope		1	0.0	7.8628	Sagging	**199.96E-6**	2.7350	0.023815	-	130.44E+6	0 (Negligible)
	Maximum Settlement		1	0.0	7.8628	Sagging	199.96E-6	**2.7350**	0.023815	-	130.44E+6	0 (Negligible)
	Max. Tensile Strain		1	0.0	7.8628	Sagging	199.96E-6	2.7350	**0.023815**	-	130.44E+6	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		1	0.0	7.8628	Sagging	199.96E-6	2.7350	0.023815	-	**130.44E+6**	0 (Negligible)
AE	Maximum Slope		1	0.0	3.3051	Sagging	**61.633E-6**	1.1624	422.89E-6	-	56990.	0 (Negligible)
	Maximum Settlement		1	0.0	3.3051	Sagging	61.633E-6	**1.1624**	422.89E-6	-	56990.	0 (Negligible)
	Max. Tensile Strain		1	0.0	3.3051	Sagging	61.633E-6	1.1624	**422.89E-6**	-	56990.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		1	0.0	3.3051	Sagging	61.633E-6	1.1624	422.89E-6	-	**56990.**	0 (Negligible)
AF	Maximum Slope		1	0.0	3.2130	Sagging	**199.40E-6**	3.3553	0.0058586	-	24851.	0 (Negligible)
	Maximum Settlement		1	0.0	3.2130	Sagging	199.40E-6	**3.3553**	0.0058586	-	24851.	0 (Negligible)
	Max. Tensile Strain		1	0.0	3.2130	Sagging	199.40E-6	3.3553	**0.0058586**	-	24851.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		1	0.0	3.2130	Sagging	199.40E-6	3.3553	0.0058586	-	**24851.**	0 (Negligible)
AG	Maximum Slope		2	11.652	15.237	Sagging	**195.11E-6**	0.91601	0.0023805	-	31904.	0 (Negligible)
	Maximum Settlement		1	0.0	11.652	Sagging	193.59E-6	**2.7397**	0.0033851	-	24828.	0 (Negligible)
	Max. Tensile Strain		1	0.0	11.652	Sagging	193.59E-6	2.7397	**0.0033851**	-	24828.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		1	0.0	11.652	Sagging	193.59E-6	2.7397	0.0033851	-	**24828.**	0 (Negligible)
AH	Maximum Slope		1	0.0	6.3378	Sagging	**175.94E-6**	2.2371	0.0073579	-	50441.	0 (Negligible)
	Maximum Settlement		1	0.0	6.3378	Sagging	175.94E-6	**2.2371**	0.0073579	-	50441.	0 (Negligible)
	Max. Tensile Strain		1	0.0	6.3378	Sagging	175.94E-6	2.2371	**0.0073579**	-	50441.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		1	0.0	6.3378	Sagging	175.94E-6	2.2371	0.0073579	-	**50441.**	0 (Negligible)
AI	Maximum Slope	Sub #	1	0.0	4.8498	Sagging	**187.89E-6**	2.2372	0.015057	-	121050.	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	4.8498	Sagging	187.89E-6	**2.2372**	0.015057	-	121050.	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	4.8498	Sagging	187.89E-6	2.2372	**0.015057**	-	121050.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	1	0.0	4.8498	Sagging	187.89E-6	2.2372	0.015057	-	**121050.**	0 (Negligible)
AJ	Maximum Slope	Sub #	1	0.0	5.9785	Sagging	**52.027E-6**	1.4615	736.61E-6	-	51448.	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	5.9785	Sagging	52.027E-6	**1.4615**	736.61E-6	-	51448.	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	5.9785	Sagging	52.027E-6	1.4615	**736.61E-6**	-	51448.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	1	0.0	5.9785	Sagging	52.027E-6	1.4615	736.61E-6	-	**51448.**	0 (Negligible)
AK	Maximum Slope	Sub #	1	0.0	4.9487	Sagging	**199.95E-6**	2.4392	0.023222	-	196.80E+6	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	4.9487	Sagging	199.95E-6	**2.4392**	0.023222	-	196.80E+6	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	4.9487	Sagging	199.95E-6	2.4392	**0.023222**	-	196.80E+6	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	1	0.0	4.9487	Sagging	199.95E-6	2.4392	0.023222	-	**196.80E+6**	0 (Negligible)
AL	Maximum Slope	Sub #	4	3.2002	4.7371	Sagging	**1.3112E-6**	2.4352	1.2517E-6	-	3.7263E+12	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	1.8953	Sagging	1.3112E-6	**2.4394**	1.2517E-6	-	14.233E+12	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	1.8953	Sagging	1.3112E-6	2.4394	**1.2517E-6**	-	14.233E+12	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of	Sub #	4	3.2002	4.7371	Sagging	1.3112E-6	2.4352	1.2517E-6	-	**3.7263E+12**	0 (Negligible)

Structure Name	Parameter	Critical Sub-Structure	Critical Segment	Start	End	Curvature	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
	Curvature (Sagging)											
AM	Maximum Slope	Sub #	1	0.0	2.7064	Sagging	**199.60E-6**	2.4332	0.025197	-	196.75E+6	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	2.7064	Sagging	199.60E-6	**2.4332**	0.025197	-	196.75E+6	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	2.7064	Sagging	199.60E-6	2.4332	**0.025197**	-	196.75E+6	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	1	0.0	2.7064	Sagging	199.60E-6	2.4332	0.025197	-	**196.75E+6**	0 (Negligible)
AN	Maximum Slope	Sub #	1	0.0	0.83442	Hogging	**3.3683E-6**	1.8955	6.3300E-6	18.792E+12	-	0 (Negligible)
	Maximum Settlement	Sub #	2	0.83442	3.3367	Sagging	3.3683E-6	**1.9037**	112.55E-6	-	3.7769E+6	0 (Negligible)
	Max. Tensile Strain	Sub #	2	0.83442	3.3367	Sagging	3.3683E-6	1.9037	**112.55E-6**	-	3.7769E+6	0 (Negligible)
	Min. Radius of Curvature (Hogging)	Sub #	1	0.0	0.83442	Hogging	3.3683E-6	1.8955	6.3300E-6	**18.792E+12**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)	Sub #	2	0.83442	3.3367	Sagging	3.3683E-6	1.9037	112.55E-6	-	**3.7769E+6**	0 (Negligible)
AO	Maximum Slope	Sub #	1	0.0	2.5169	Sagging	**199.86E-6**	2.4068	0.025126	-	18.121E+6	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	2.5169	Sagging	199.86E-6	**2.4068**	0.025126	-	18.121E+6	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	2.5169	Sagging	199.86E-6	2.4068	**0.025126**	-	18.121E+6	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	1	0.0	2.5169	Sagging	199.86E-6	2.4068	0.025126	-	**18.121E+6**	0 (Negligible)
AP	Maximum Slope	Sub #	1	0.0	4.4543	Sagging	**125.86E-6**	2.4070	0.0037032	-	25453.	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	4.4543	Sagging	125.86E-6	**2.4070**	0.0037032	-	25453.	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	4.4543	Sagging	125.86E-6	2.4070	**0.0037032**	-	25453.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	1	0.0	4.4543	Sagging	125.86E-6	2.4070	0.0037032	-	**25453.**	0 (Negligible)
AQ	Maximum Slope	Sub #	1	0.0	4.9487	Sagging	**179.74E-6**	2.0631	0.011663	-	92298.	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	4.9487	Sagging	179.74E-6	**2.0631**	0.011663	-	92298.	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	4.9487	Sagging	179.74E-6	2.0631	**0.011663**	-	92298.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	1	0.0	4.9487	Sagging	179.74E-6	2.0631	0.011663	-	**92298.**	0 (Negligible)
AR	Maximum Slope	Sub #	1	0.0	0.94198	Sagging	**200.00E-6**	0.38759	0.0	-	89.267E+9	0 (Negligible)
	Maximum Settlement	Sub #	2	0.94198	8.4707	Sagging	200.00E-6	**1.8933**	0.013330	-	68.343E+6	0 (Negligible)
	Max. Tensile Strain	Sub #	2	0.94198	8.4707	Sagging	200.00E-6	1.8933	**0.013330**	-	68.343E+6	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	2	0.94198	8.4707	Sagging	200.00E-6	1.8933	0.013330	-	**68.343E+6**	0 (Negligible)
AS	Maximum Slope	Sub #	1	1.8137	2.7205	Sagging	**199.99E-6**	0.37109	0.0	-	19016.	0 (Negligible)
	Maximum Settlement	Sub #	3	2.7205	8.1605	Sagging	199.99E-6	**1.4590**	0.010196	-	62.262E+6	0 (Negligible)
	Max. Tensile Strain	Sub #	3	2.7205	8.1605	Sagging	199.99E-6	1.4590	**0.010196**	-	62.262E+6	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	3	2.7205	8.1605	Sagging	199.99E-6	1.4590	0.010196	-	**62.262E+6**	0 (Negligible)
AT	Maximum Slope	Sub #	1	1.8461	3.4847	Sagging	**180.33E-6**	0.60118	0.0	-	191570.	0 (Negligible)
	Maximum Settlement	Sub #	2	3.4847	11.076	Sagging	180.33E-6	**1.8017**	0.0076835	-	89349.	0 (Negligible)
	Max. Tensile Strain	Sub #	2	3.4847	11.076	Sagging	180.33E-6	1.8017	**0.0076835**	-	89349.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	2	3.4847	11.076	Sagging	180.33E-6	1.8017	0.0076835	-	**89349.**	0 (Negligible)
AU	Maximum Slope		1	0.0	4.4445	Hogging	**799.97E-6**	2.4280	0.058705	5775.4	-	1 (Very Slight)
	Maximum Settlement		1	0.0	4.4445	Hogging	799.97E-6	**2.4280**	0.058705	5775.4	-	1 (Very Slight)
	Max. Tensile Strain		1	0.0	4.4445	Hogging	799.97E-6	2.4280	**0.058705**	5775.4	-	1 (Very Slight)
	Min. Radius of Curvature (Hogging)		1	0.0	4.4445	Hogging	799.97E-6	2.4280	0.058705	**5775.4**	-	1 (Very Slight)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
AV	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
	All settlements are less than the Settlement Trough Limit Sensitivity.											
AW	Maximum Slope		1	3.7739	11.321	Hogging	**617.02E-6**	2.7356	0.031327	9027.7	-	0 (Negligible)
	Maximum Settlement		1	3.7739	11.321	Hogging	617.02E-6	**2.7356**	0.031327	9027.7	-	0 (Negligible)
	Max. Tensile Strain		1	3.7739	11.321	Hogging	617.02E-6	2.7356	**0.031327**	9027.7	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	3.7739	11.321	Hogging	617.02E-6	2.7356	0.031327	**9027.7**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-

Specific Building Damage Results - All Combined Segments

Structure: A | Sub-structure:

Vertical Offset from Line for	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category

Vertical Movement Calculations [m]	Combined Segment [m]	Start [m]	Length [m]	Curvature Ratio [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: B | Sub-structure:

Vertical Movement Calculations [m]	Combined Segment [m]	Start [m]	Length [m]	Curvature Ratio [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: C | Sub-structure:

Vertical Movement Calculations [m]	Combined Segment [m]	Start [m]	Length [m]	Curvature Ratio [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: D | Sub-structure:

Vertical Movement Calculations [m]	Combined Segment [m]	Start [m]	Length [m]	Curvature Ratio [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: E | Sub-structure:

Vertical Movement Calculations [m]	Combined Segment [m]	Start [m]	Length [m]	Curvature Ratio [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: F | Sub-structure:

Vertical Movement Calculations [m]	Combined Segment [m]	Start [m]	Length [m]	Curvature Ratio [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: G | Sub-structure:

Vertical Movement Calculations [m]	Combined Segment [m]	Start [m]	Length [m]	Curvature Ratio [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: H | Sub-structure:

Vertical Movement Calculations [m]	Combined Segment [m]	Start [m]	Length [m]	Curvature Ratio [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: I | Sub-structure:

Vertical Movement Calculations [m]	Combined Segment [m]	Start [m]	Length [m]	Curvature Ratio [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: J | Sub-structure:

Vertical Movement Calculations [m]	Combined Segment [m]	Start [m]	Length [m]	Curvature Ratio [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: K | Sub-structure:

Vertical Movement Calculations [m]	Combined Segment [m]	Start [m]	Length [m]	Curvature Ratio [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Vertical Offset from Line for Vertical	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
		[m]	[m]	[%]		[%]	[%]	

Structure: L | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: M | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: N | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: O | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: P | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: Q | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: R | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: S | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: T | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: U | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: V | Sub-structure:

Vertical Offset from Line for	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: W | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: X | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: Y | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: Z | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AA | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AB | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AC | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AD | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AE | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AF | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Vertical Offset from Line for Vertical	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category

Structure: AG | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AH | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AI | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AJ | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AK | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AL | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AM | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AN | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AO | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AP | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AQ | Sub-structure: Sub #

Vertical Offset from Line for	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category

Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: AR | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: AS | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: AT | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: AU | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: AV | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

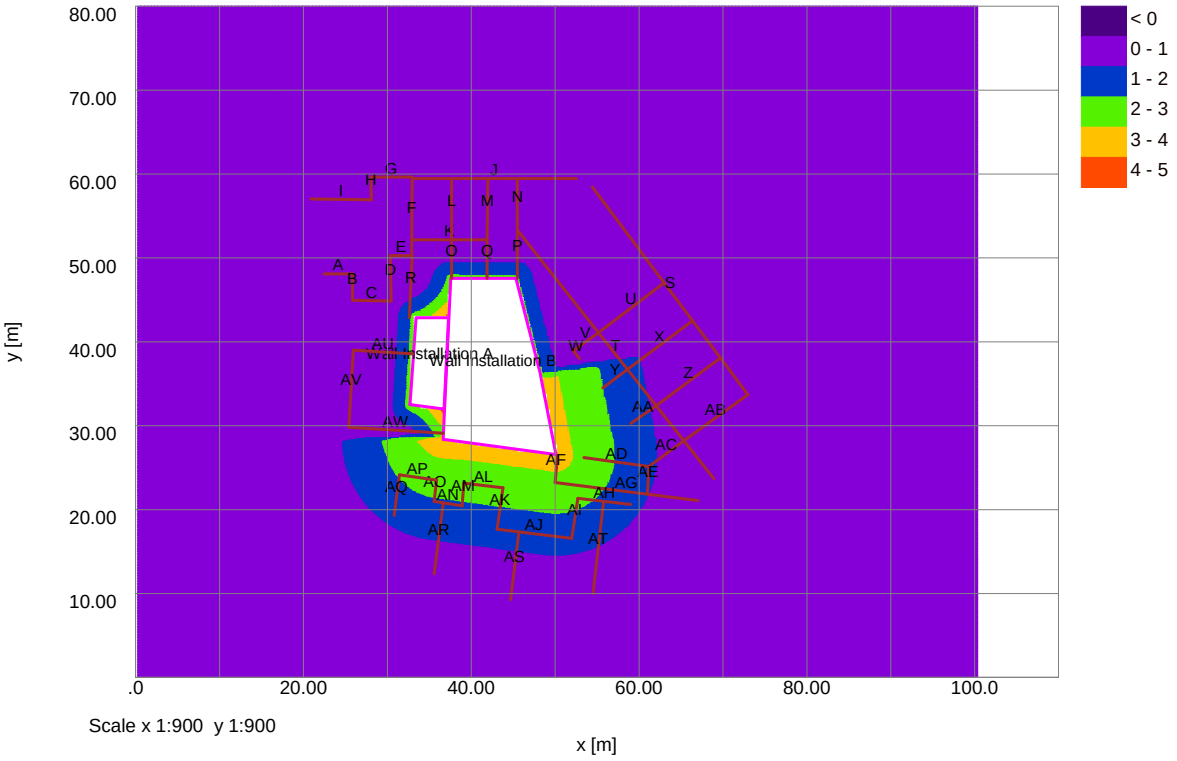
No structures have segments combined.

Structure: AW | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

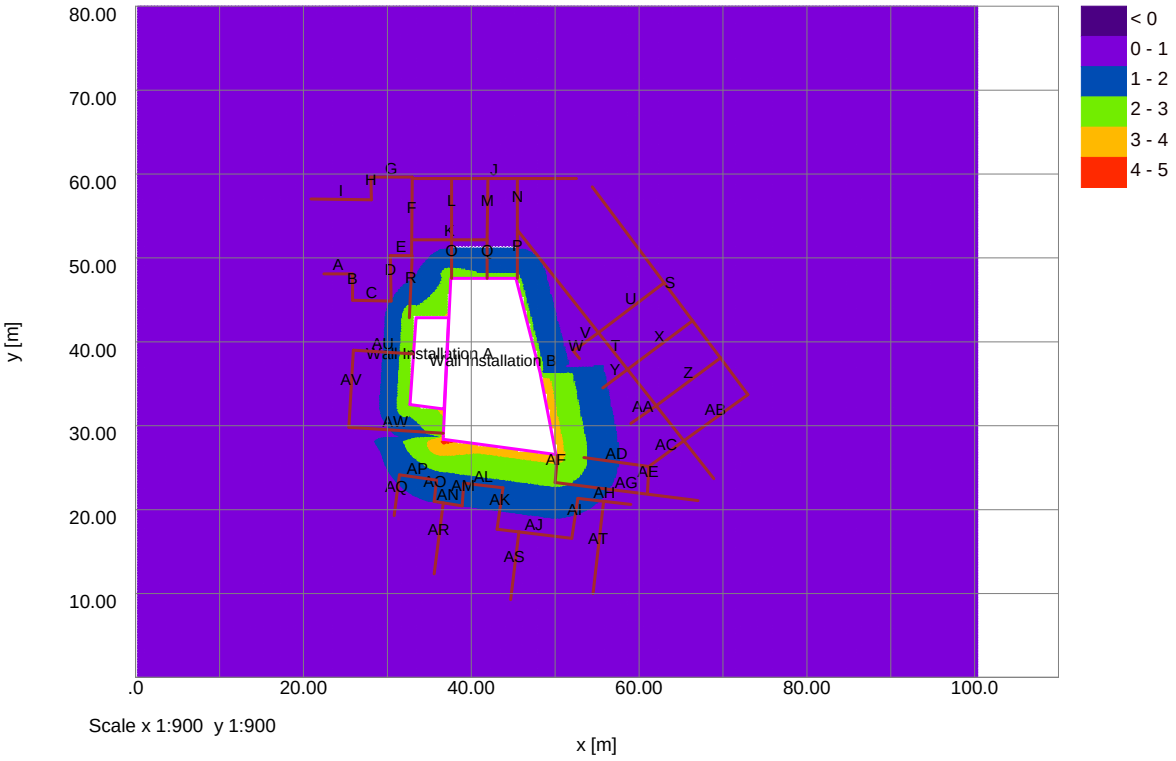
No structures have segments combined.

Vertical Settlement Contours: Grid 1 (level 0.000m) (Interval 1mm)



Scale x 1:900 y 1:900

Horizontal Displacement Contours: Grid 1 (level 0.000m) Interval 1mm



Scale x 1:900 y 1:900

Problem Type

Problem Type : Tunnelling and Embedded Wall Excavations

Displacement Data

Type	Name	Direction of extrusion	Point/Line/Line for extrusion						No. of intervals across extrusion/line	Extrusion depth	No. of intervals along extrusion	Calculate	Surface type for tunnels
			First point			Second point							
			X [m]	Y [m]	Z(level) [m]	X [m]	Y [m]	Z(level) [m]		[m]			
Grid	Grid 1	Global X	0.30000	0.00000	0.00000	-	80.00000	0.00000	250	100.00000	250	No	Surface
Line	A	-	22.50000	48.10000	-0.50000	25.90000	48.10000	-0.50000	4	-	-	Yes	Surface
Line	B	-	25.90000	48.10000	-0.50000	25.90000	45.00000	-0.50000	4	-	-	Yes	Surface
Line	C	-	25.90000	45.00000	-0.50000	30.50000	44.90000	-0.50000	5	-	-	Yes	Surface
Line	D	-	30.50000	44.90000	-0.50000	30.40000	50.30000	-0.50000	6	-	-	Yes	Surface
Line	E	-	30.40000	50.30000	-0.50000	32.90000	50.30000	-0.50000	3	-	-	Yes	Surface
Line	F	-	32.90000	50.30000	-0.50000	33.00000	59.60000	-0.50000	10	-	-	Yes	Surface
Line	G	-	33.00000	59.60000	-0.50000	28.00000	59.60000	-0.50000	5	-	-	Yes	Surface
Line	H	-	28.00000	59.60000	-0.50000	28.10000	56.90000	-0.50000	3	-	-	Yes	Surface
Line	I	-	28.10000	56.90000	-0.50000	20.90000	57.00000	-0.50000	8	-	-	Yes	Surface
Line	J	-	33.00000	59.50000	-0.50000	52.50000	59.50000	-0.50000	10	-	-	Yes	Surface
Line	K	-	33.00000	52.20000	-0.50000	41.90000	52.20000	-0.50000	9	-	-	Yes	Surface
Line	L	-	37.70000	59.40000	-0.50000	37.70000	52.20000	-0.50000	8	-	-	Yes	Surface
Line	M	-	42.00000	59.50000	-1.50000	41.90000	52.20000	-1.50000	8	-	-	Yes	Surface
Line	N	-	45.50000	53.30000	-4.00000	45.50000	59.40000	-4.00000	7	-	-	Yes	Surface
Line	O	-	37.70000	52.20000	-0.68000	37.70000	47.60000	-0.68000	5	-	-	Yes	Surface
Line	P	-	45.50000	53.30000	-1.85000	45.50000	47.60000	-1.85000	6	-	-	Yes	Surface
Line	Q	-	41.90000	52.20000	-0.65000	41.90000	47.60000	-0.65000	5	-	-	Yes	Surface
Line	R	-	33.00000	50.30000	-0.50000	32.60000	42.90000	-0.50000	8	-	-	Yes	Surface
Line	S	-	54.40000	58.50000	-0.50000	73.00000	33.70000	-0.50000	16	-	-	Yes	Surface
Line	T	-	45.50000	53.30000	-0.50000	68.90000	23.70000	-0.50000	19	-	-	Yes	Surface
Line	U	-	63.00000	47.00000	-0.50000	55.10000	41.10000	-0.50000	10	-	-	Yes	Surface
Line	V	-	55.10000	41.10000	-0.50000	52.20000	38.90000	-0.50000	4	-	-	Yes	Surface
Line	W	-	52.20000	38.90000	-1.70000	52.90000	38.00000	-1.70000	2	-	-	Yes	Surface
Line	X	-	66.40000	42.50000	-0.50000	58.60000	36.70000	-0.50000	10	-	-	Yes	Surface
Line	Y	-	58.60000	36.70000	-1.40000	55.70000	34.50000	-1.40000	4	-	-	Yes	Surface
Line	Z	-	69.70000	38.10000	-0.50000	62.00000	32.40000	-0.50000	10	-	-	Yes	Surface
Line	AA	-	62.00000	32.40000	-1.40000	59.00000	30.30000	-1.40000	4	-	-	Yes	Surface
Line	AB	-	73.00000	33.70000	-0.50000	65.30000	28.20000	-0.50000	10	-	-	Yes	Surface
Line	AC	-	65.30000	28.20000	-0.50000	61.20000	25.20000	-0.50000	6	-	-	Yes	Surface
Line	AD	-	61.20000	25.20000	-1.46000	53.40000	26.20000	-1.46000	8	-	-	Yes	Surface
Line	AE	-	61.20000	25.20000	-0.50000	61.00000	21.90000	-0.50000	4	-	-	Yes	Surface
Line	AF	-	50.30000	26.50000	-1.46000	50.00000	23.30000	-1.46000	4	-	-	Yes	Surface
Line	AG	-	50.00000	23.30000	-0.50000	67.00000	21.10000	-0.50000	9	-	-	Yes	Surface
Line	AH	-	59.00000	20.70000	-0.50000	52.70000	21.40000	-0.50000	7	-	-	Yes	Surface
Line	AI	-	52.70000	21.40000	-0.50000	52.00000	16.60000	-0.50000	5	-	-	Yes	Surface
Line	AJ	-	52.00000	16.60000	-0.50000	43.10000	17.70000	-0.50000	9	-	-	Yes	Surface
Line	AK	-	43.10000	17.70000	-0.50000	43.80000	22.60000	-0.50000	5	-	-	Yes	Surface
Line	AL	-	43.80000	22.60000	-0.50000	39.10000	23.20000	-0.50000	5	-	-	Yes	Surface
Line	AM	-	39.10000	23.20000	-0.50000	38.90000	20.50000	-0.50000	3	-	-	Yes	Surface
Line	AN	-	38.90000	20.50000	-0.50000	35.60000	21.00000	-0.50000	4	-	-	Yes	Surface
Line	AO	-	35.60000	21.00000	-0.50000	35.90000	23.50000	-0.50000	3	-	-	Yes	Surface
Line	AP	-	35.90000	23.50000	-0.50000	31.50000	24.20000	-0.50000	5	-	-	Yes	Surface
Line	AQ	-	31.50000	24.20000	-0.50000	30.80000	19.30000	-0.50000	5	-	-	Yes	Surface
Line	AR	-	35.60000	12.40000	-0.50000	36.70000	20.80000	-0.50000	9	-	-	Yes	Surface
Line	AS	-	44.70000	9.30000	-0.50000	45.70000	17.40000	-0.50000	9	-	-	Yes	Surface
Line	AT	-	54.50000	10.00000	-0.50000	55.80000	21.00000	-0.50000	6	-	-	Yes	Surface
Line	AU	-	33.10000	38.60000	-2.00000	26.00000	39.00000	-2.00000	8	-	-	Yes	Surface
Line	AV	-	26.00000	39.00000	-2.00000	25.40000	29.80000	-2.00000	10	-	-	Yes	Surface
Line	AW	-	25.40000	29.80000	-2.00000	36.70000	29.10000	-2.00000	6	-	-	Yes	Surface

Vertical Ground Movement Curves

Curve Name: **No vertical ground movement**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.000][1.000,0.000,0.000][0.000,1.000,0.000][1.000,1.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = 0.0x + 0.0
Coeff. of Determination: -2147483648.E+2147483647

Curve Name: **Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.040][2.000,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = -2.0E-2x + 4.0E-2
Coeff. of Determination: 1.0

Curve Name: **Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.050][0.050,0.000,0.047][0.100,0.000,0.043][0.150,0.000,0.040]
[0.200,0.000,0.037][0.250,0.000,0.034][0.300,0.000,0.031][0.350,0.000,0.028]
[0.400,0.000,0.025][0.450,0.000,0.022][0.500,0.000,0.020][0.550,0.000,0.018]
[0.600,0.000,0.016][0.650,0.000,0.014][0.700,0.000,0.012][0.750,0.000,0.010]
[0.800,0.000,0.008][0.850,0.000,0.007][0.900,0.000,0.006][0.950,0.000,0.005]
[1.000,0.000,0.004][1.050,0.000,0.003][1.100,0.000,0.003][1.150,0.000,0.002]
[1.200,0.000,0.002][1.250,0.000,0.001][1.300,0.000,0.001][1.350,0.000,0.001]
[1.400,0.000,0.001][1.450,0.000,0.000][1.500,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 4
y Order: 0
Polynomial: z = $-1.2355E\text{-}2x^4 + 3.4814E\text{-}2x^3 - 2.8885E\text{-}3x^2 - 6.5618E\text{-}2x + 4.9987E\text{-}2$
Coeff. of Determination: 1.0000

Curve Name: **Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b)**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Settlement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.039][0.100,0.000,0.049][0.200,0.000,0.056][0.300,0.000,0.062]
[0.400,0.000,0.067][0.500,0.000,0.070][0.600,0.000,0.072][0.700,0.000,0.073]
[0.800,0.000,0.073][0.900,0.000,0.072][1.000,0.000,0.070][1.100,0.000,0.068]
[1.200,0.000,0.065][1.300,0.000,0.061][1.400,0.000,0.058][1.500,0.000,0.054]
[1.600,0.000,0.050][1.700,0.000,0.046][1.800,0.000,0.042][1.900,0.000,0.038]
[2.000,0.000,0.034][2.100,0.000,0.030][2.200,0.000,0.027][2.300,0.000,0.023]
[2.400,0.000,0.020][2.500,0.000,0.017][2.600,0.000,0.014][2.700,0.000,0.012]
[2.800,0.000,0.010][2.900,0.000,0.008][3.000,0.000,0.007][3.100,0.000,0.005]
[3.200,0.000,0.004][3.300,0.000,0.004][3.400,0.000,0.003][3.500,0.000,0.002]

Type	Name	Direction of extrusion	Point/Line/Line for extrusion	No. of intervals across extrusion/line	Extrusion depth	No. of intervals along extrusion	Calculate Surface type for tunnels

[3.600,0.000,0.002][3.700,0.000,0.002][3.800,0.000,0.001][3.900,0.000,0.001]
[4.000,0.000,0.000]

Curve Fitting Method: Polynomial
x Order: 4
y Order: 0
Polynomial: z = $-2.6455E-3x^4 + 2.8495E-2x^3 - 1.0051E-1x^2 + 1.0569E-1x + 3.8990E-2$
Coeff. of Determination: 9.9991E-1

Horizontal Ground Movement Curves

Curve Name: **No horizontal ground movement**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.000][1.000,0.000,0.000][0.000,1.000,0.000][1.000,1.000,0.000]
Curve Fitting Method: Polynomial
x Order: 0
y Order: 0
Polynomial: z = 0.0
Coeff. of Determination: -2147483648.E+2147483647

Curve Name: **Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(a))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.041][0.050,0.000,0.039][0.100,0.000,0.036][0.150,0.000,0.034]
[0.200,0.000,0.032][0.250,0.000,0.030][0.300,0.000,0.029][0.350,0.000,0.027]
[0.400,0.000,0.025][0.450,0.000,0.023][0.500,0.000,0.022][0.550,0.000,0.020]
[0.600,0.000,0.019][0.650,0.000,0.018][0.700,0.000,0.016][0.750,0.000,0.015]
[0.800,0.000,0.014][0.850,0.000,0.013][0.900,0.000,0.012][0.950,0.000,0.010]
[1.000,0.000,0.009][1.050,0.000,0.008][1.100,0.000,0.007][1.150,0.000,0.006]
[1.200,0.000,0.005][1.250,0.000,0.004][1.300,0.000,0.004][1.350,0.000,0.003]
[1.400,0.000,0.002][1.450,0.000,0.001][1.500,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 3
y Order: 0
Polynomial: z = $-4.2486E-3x^3 + 1.9096E-2x^2 - 4.6221E-2x + 4.0729E-2$
Coeff. of Determination: 1.0000

Curve Name: **Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.050][1.500,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = $-3.33E-2x + 5.00E-2$
Coeff. of Determination: 1.00

Curve Name: **Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(a))**
Coordinates: [Distance from wall / wall depth or max. excavation depth (x), Depth / wall depth or max. excavation depth (y), Horizontal movement / wall depth or max. excavation depth (z)(%)]
[0.000,0.000,0.150][4.000,0.000,0.000]
Curve Fitting Method: Polynomial
x Order: 1
y Order: 0
Polynomial: z = $-3.75E-2x + 1.50E-1$
Coeff. of Determination: 1.00

Polygonal Excavations

Excavation Name: **Wall Installation A**
Surface level [m]: 0.0
Contribution: Positive
Enabled: Yes
Surface movement curves which are selected are applied between surface and [m]: -4.4000

Corner	x [m]	y [m]	Base Level [m]	Stiffened	Previous Side d [m]	Previous Side p1 [%]	Previous Side p2* [%]	Next Side d [m]	Next Side p1 [%]	Next Side p2* [%]
1	32.700	32.500	-4.4000	No	-	-	-	-	-	-
2	36.800	32.000	-4.4000	No	-	-	-	-	-	-
3	37.300	42.900	-4.4000	No	-	-	-	-	-	-
4	33.400	42.900	-4.4000	No	-	-	-	-	-	-

Side	Corner 1 x [m]	Corner 1 y [m]	Corner 2 x [m]	Corner 2 y [m]	Ground Movement Curve Vertical	Ground Movement Curve Horizontal
1	32.700	32.500	36.800	32.000	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))
2	36.800	32.000	37.300	42.900	No vertical ground movement	No horizontal ground movement
3	37.300	42.900	33.400	42.900	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))
4	33.400	42.900	32.700	32.500	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))

Excavation Name: **Excavation A**
Surface level [m]: 0.0
Contribution: Positive
Enabled: Yes
Surface movement curves which are selected are applied between surface and [m]: -4.4000

Corner	x [m]	y [m]	Base Level [m]	Stiffened	Previous Side d [m]	Previous Side p1 [%]	Previous Side p2* [%]	Next Side d [m]	Next Side p1 [%]	Next Side p2* [%]
1	32.700	32.500	-4.4000	Yes	0.0	67.000	25.000	0.0	67.000	25.000
2	36.800	32.000	-4.4000	Yes	0.0	67.000	25.000	0.0	67.000	25.000
3	37.300	42.900	-4.4000	Yes	0.0	67.000	25.000	0.0	67.000	25.000
4	33.400	42.900	-4.4000	Yes	0.0	67.000	25.000	0.0	67.000	25.000

Side	Corner 1 x [m]	Corner 1 y [m]	Corner 2 x [m]	Corner 2 y [m]	Ground Movement Curve Vertical	Ground Movement Curve Horizontal
1	32.700	32.500	36.800	32.000	Excavation in front of high stiffness wall in stiff clay	Excavation in front of high stiffness wall in stiff clay

Side	Corner 1 x [m]	Corner 1 y [m]	Corner 2 x [m]	Corner 2 y [m]	Ground Movement Curve Vertical	Ground Movement Curve Horizontal
					(CIRIA 580 Fig. 2.11(b))	(CIRIA 580 Fig. 2.11(a))
2	36.800	32.000	37.300	42.900	No vertical ground movement	No horizontal ground movement
3	37.300	42.900	33.400	42.900	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(a))
4	33.400	42.900	32.700	32.500	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(a))

Excavation Name: Wall Installation B
Surface level [m]: 0.0
Contribution: Positive
Enabled: Yes
Surface movement curves which are selected are applied between surface and [m]: -8.5000

Corner	x [m]	y [m]	Base Level [m]	Stiffened	Previous Side d [m]	Previous Side p1 [%]	Previous Side p2* [%]	Next Side d [m]	Next Side p1 [%]	Next Side p2* [%]
1	36.700	28.400	-8.5000	No	-	-	-	-	-	-
2	50.100	26.600	-8.5000	No	-	-	-	-	-	-
3	48.400	35.400	-8.5000	No	-	-	-	-	-	-
4	48.166	36.351	-4.4000	No	-	-	-	-	-	-
5	45.300	47.600	-4.4000	No	-	-	-	-	-	-
6	37.600	47.600	-4.4000	No	-	-	-	-	-	-
7	36.700	28.800	-4.4000	No	-	-	-	-	-	-

Side	Corner 1 x [m]	Corner 1 y [m]	Corner 2 x [m]	Corner 2 y [m]	Ground Movement Curve Vertical	Ground Movement Curve Horizontal
1	36.700	28.400	50.100	26.600	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(b))	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(a))
2	50.100	26.600	48.400	35.400	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(b))	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(a))
3	48.400	35.400	48.166	36.351	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(b))	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(a))
4	48.166	36.351	45.300	47.600	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))
5	45.300	47.600	37.600	47.600	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))
6	37.600	47.600	36.700	28.800	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(b))	Installation of planar diaphragm wall in stiff clay (CIRIA 580 Fig. 2.9(a))
7	36.700	28.800	36.700	28.400	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(b))	Installation of contiguous bored pile wall in stiff clay (CIRIA 580 Fig. 2.8(a))

Excavation Name: Excavation B
Surface level [m]: 0.0
Contribution: Positive
Enabled: Yes
Surface movement curves which are selected are applied between surface and [m]: -4.4000

Corner	x [m]	y [m]	Base Level [m]	Stiffened	Previous Side d [m]	Previous Side p1 [%]	Previous Side p2* [%]	Next Side d [m]	Next Side p1 [%]	Next Side p2* [%]
1	36.700	28.400	-4.4000	Yes	0.0	67.000	25.000	0.0	67.000	25.000
2	50.100	26.600	-4.4000	Yes	0.0	67.000	25.000	0.0	67.000	25.000
3	48.400	35.400	-4.4000	Yes	0.0	67.000	25.000	0.0	67.000	25.000
4	48.166	36.351	-4.4000	Yes	0.0	67.000	25.000	0.0	67.000	25.000
5	45.300	47.600	-4.4000	Yes	0.0	67.000	25.000	0.0	67.000	25.000
6	37.600	47.600	-4.4000	Yes	0.0	67.000	25.000	0.0	67.000	25.000
7	36.700	28.800	-4.4000	Yes	0.0	67.000	25.000	0.0	67.000	25.000

Side	Corner 1 x [m]	Corner 1 y [m]	Corner 2 x [m]	Corner 2 y [m]	Ground Movement Curve Vertical	Ground Movement Curve Horizontal
1	36.700	28.400	50.100	26.600	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(a))
2	50.100	26.600	48.400	35.400	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(a))
3	48.400	35.400	48.166	36.351	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(a))
4	48.166	36.351	45.300	47.600	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(a))
5	45.300	47.600	37.600	47.600	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(a))
6	37.600	47.600	36.700	28.800	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(a))
7	36.700	28.800	36.700	28.400	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(b))	Excavation in front of high stiffness wall in stiff clay (CIRIA 580 Fig. 2.11(a))

Damage Category Strains

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

Specific Structures - Geometry

Structure Name	Sub-Structure Name	Displacement Line	Start Distance Along Line [m]	End Distance Along Line [m]	Vertical Offsets from Line for Vertical Movement Calculations [m]	Vertical Displacement Limit Sensitivity [mm]	Damage Category Strains	Poisson's Ratio	E/G
A		A	0.00000	3.39900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
B		B	0.00000	3.09900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
C		C	0.00000	4.60009	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
D		D	0.00000	5.39993	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
E		E	0.00000	2.49900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
F		F	0.00000	9.29954	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
G		G	0.00000	4.99900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
H		H	0.00000	2.70085	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
I		I	0.00000	7.19969	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
J		J	0.00000	19.49900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
K		K	0.00000	8.89900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
L		L	0.00000	7.19900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000

Structure Name	Sub-Structure Name	Displacement Line	Start Distance Along Line	End Distance Along Line	Vertical Offsets from Line for Vertical	Vertical Displacement Limit Sensitivity	Damage Category Strains	Poisson's Ratio	E/G
M		M	0.00000	7.29968	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
N		N	0.00000	6.09900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
O		O	0.00000	4.59900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
P	Sub #	P	0.00000	5.69900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
Q		Q	0.00000	4.59900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
R		R	0.00000	7.40980	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
S		S	0.00000	30.99900	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
T		T	0.00000	37.73121	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
U		U	0.00000	9.85902	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
V		V	0.00000	3.63905	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
W		W	0.00000	1.13918	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
X		X	0.00000	9.71908	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
Y		Y	0.00000	3.63905	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
Z		Z	0.00000	9.57919	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AA		AA	0.00000	3.66097	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AB		AB	0.00000	9.46156	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AC		AC	0.00000	5.07935	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AD		AD	0.00000	7.86284	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AE		AE	0.00000	3.30506	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AF		AF	0.00000	3.21303	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AG		AG	0.00000	17.14076	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AH		AH	0.00000	6.33777	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AI	Sub #	AI	0.00000	4.84977	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AJ	Sub #	AJ	0.00000	8.96672	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AK	Sub #	AK	0.00000	4.94875	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AL	Sub #	AL	0.00000	4.73714	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AM	Sub #	AM	0.00000	2.70640	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AN	Sub #	AN	0.00000	3.33666	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AO	Sub #	AO	0.00000	2.51694	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AP	Sub #	AP	0.00000	4.45433	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AQ	Sub #	AQ	0.00000	4.94875	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AR	Sub #	AR	0.00000	8.47072	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AS	Sub #	AS	0.00000	8.16049	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AT	Sub #	AT	0.00000	11.07555	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AU		AU	0.00000	7.11026	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AV		AV	0.00000	9.21854	0.0	0.10000	Burland Strain Limits	0.20000	2.6000
AW		AW	0.00000	11.32066	0.0	0.10000	Burland Strain Limits	0.20000	2.6000

Specific Structures - Bending Parameters

Structure Name	Sub-Structure Name	Height	Default Properties	Hogging			Sagging		
				2nd Moment of Area (per unit width)	Distance of Bending Strain from N.A.	Distance of N.A. from Edge of Beam in Tension	2nd Moment of Area (per unit width)	Distance of Bending Strain from N.A.	Distance of N.A. from Edge of Beam in Tension
		[m]		[m³]	[m]	[m]	[m³]	[m]	[m]
A		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
B		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
C		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
D		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
E		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
F		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
G		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
H		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
I		15.500	Yes	1241.3	15.500	15.500	310.32	7.7500	7.7500
J		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
K		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
L		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
M		9.5000	Yes	285.79	9.5000	9.5000	71.448	4.7500	4.7500
N		12.000	Yes	576.00	12.000	12.000	144.00	6.0000	6.0000
O		3.6800	Yes	16.612	3.6800	3.6800	4.1530	1.8400	1.8400
P	Sub #	4.8500	Yes	38.028	4.8500	4.8500	9.5070	2.4250	2.4250
Q		3.6500	Yes	16.209	3.6500	3.6500	4.0523	1.8250	1.8250
R		3.5000	Yes	14.292	3.5000	3.5000	3.5729	1.7500	1.7500
S		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
T		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
U		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
V		6.5000	Yes	91.542	6.5000	6.5000	22.885	3.2500	3.2500
W		7.7000	Yes	152.18	7.7000	7.7000	38.044	3.8500	3.8500
X		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
Y		7.4000	Yes	135.07	7.4000	7.4000	33.769	3.7000	3.7000
Z		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
AA		7.4000	Yes	135.07	7.4000	7.4000	33.769	3.7000	3.7000
AB		8.5000	Yes	204.71	8.5000	8.5000	51.177	4.2500	4.2500
AC		3.5000	Yes	14.292	3.5000	3.5000	3.5729	1.7500	1.7500
AD		4.4600	Yes	29.572	4.4600	4.4600	7.3930	2.2300	2.2300
AE		3.5000	Yes	14.292	3.5000	3.5000	3.5729	1.7500	1.7500
AF		4.4600	Yes	29.572	4.4600	4.4600	7.3930	2.2300	2.2300
AG		3.5000	Yes	14.292	3.5000	3.5000	3.5729	1.7500	1.7500
AH		18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AI	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AJ	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AK	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AL	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AM	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AN	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AO	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AP	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AQ	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AR	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AS	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AT	Sub #	18.500	Yes	2110.5	18.500	18.500	527.64	9.2500	9.2500
AU		4.6000	Yes	32.445	4.6000	4.6000	8.1113	2.3000	2.3000
AV		4.6000	Yes	32.445	4.6000	4.6000	8.1113	2.3000	2.3000
AW		4.6000	Yes	32.445	4.6000	4.6000	8.1113	2.3000	2.3000

Building Segment Combinations

Structure Name	Sub-Structure Name	Vertical Offset from Line for Vertical Movement Calculations	Segment Start	Length	Curvature	Combined Segment
		[m]	[m]	[m]		

No structures have segments combined.

Warnings

1 Multiple excavations have been specified. The displacements resulting from these excavations are calculated by summing the displacements resulting from each individual excavation. No account has been taken of the interactions between excavations (e.g. overlapping zones of influence or 'shielding' of one excavation by another).

Displacement and Strain Results

Type/No.		Coordinates			Displacements					Angle of Line
Name	Dist.	x	y	z	x	y	z	Horizontal dispalcement	Horizontal displacement	to x Axis

		[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	along the Line [mm]	perpendicular to Line [mm]	[°]
A	Line 1	22.50000	48.10000	-0.50000	2.0599	-0.58186	0.41210	2.0599	-0.58186	0.0
		0.85000	23.35000	48.10000	-0.50000	2.4980	-0.70465	0.56935	2.4980	-0.70465	0.0
		1.7000	24.20000	48.10000	-0.50000	2.9183	-0.83724	0.77482	2.9183	-0.83724	0.0
		2.5500	25.05000	48.10000	-0.50000	3.3166	-0.98006	1.0325	3.3166	-0.98006	0.0
		3.4000	25.90000	48.10000	-0.50000	3.6878	-1.1330	1.3410	3.6878	-1.1330	0.0
B	Line 2	25.90000	48.10000	-0.50000	3.6878	-1.1330	1.3410	1.1330	3.6878	270.00
		0.77500	25.90000	47.32500	-0.50000	3.8950	-1.0946	1.4657	1.0946	3.8950	270.00
		1.5500	25.90000	46.55000	-0.50000	4.1090	-1.0195	1.5888	1.0195	4.1090	270.00
		2.3250	25.90000	45.77500	-0.50000	4.3229	-0.90311	1.7067	0.90311	4.3229	270.00
		3.1000	25.90000	45.00000	-0.50000	4.5276	-0.74276	1.8157	0.74276	4.5276	270.00
C	Line 3	25.90000	45.00000	-0.50000	4.5276	-0.74276	1.8157	4.5427	-0.64418	358.75
		0.92022	26.82000	44.98000	-0.50000	5.0254	-0.88952	2.2813	5.0435	-0.78008	358.75
		1.8404	27.74000	44.96000	-0.50000	5.6733	-1.1322	2.8020	5.6966	-1.0086	358.75
		2.7607	28.66000	44.94000	-0.50000	6.3528	-1.4737	3.3397	6.3833	-1.3352	358.75
		3.6809	29.58000	44.92000	-0.50000	6.9234	-1.9106	3.8877	6.9633	-1.7596	358.75
		4.6011	30.50000	44.90000	-0.50000	7.2971	-2.4754	4.4256	7.3492	-2.3162	358.75
D	Line 4	30.50000	44.90000	-0.50000	7.2971	-2.4754	4.4256	-2.6100	-7.2500	91.061
		0.90015	30.48333	45.80000	-0.50000	6.4482	-2.6616	4.0992	-2.7806	-6.3978	91.061
		1.8003	30.46667	46.70000	-0.50000	5.8954	-2.7221	3.9274	-2.8308	-5.8440	91.061
		2.7005	30.45000	47.60000	-0.50000	5.4556	-2.6384	3.7775	-2.7389	-5.4058	91.061
		3.6006	30.43333	48.50000	-0.50000	3.7464	-2.5587	2.8681	-2.6276	-3.6984	91.061
		4.5008	30.41667	49.40000	-0.50000	3.3290	-2.6966	2.5902	-2.7577	-3.2785	91.061
		5.4009	30.40000	50.30000	-0.50000	2.9460	-2.8070	2.2848	-2.8610	-2.8936	91.061
E	Line 5	30.40000	50.30000	-0.50000	2.9460	-2.8070	2.2848	2.9460	-2.8070	0.0
		0.83333	31.23333	50.30000	-0.50000	2.8751	-3.1596	2.5668	2.8751	-3.1596	0.0
		1.6667	32.06667	50.30000	-0.50000	2.8491	-3.5807	2.8341	2.8491	-3.5807	0.0
		2.5000	32.90000	50.30000	-0.50000	2.8006	-4.0607	3.0594	2.8006	-4.0607	0.0
F	Line 6	32.90000	50.30000	-0.50000	2.8006	-4.0607	3.0594	-4.0303	-2.8441	89.384
		0.93005	32.91000	51.23000	-0.50000	2.2091	-3.9302	2.6028	-3.9062	-2.2512	89.384
		1.8601	32.92000	52.16000	-0.50000	1.6795	-3.6291	2.1494	-3.6108	-1.7185	89.384
		2.7902	32.93000	53.09000	-0.50000	1.4181	-3.4344	1.7951	-3.4189	-1.4550	89.384
		3.7202	32.94000	54.02000	-0.50000	1.2265	-3.2332	1.4824	-3.2199	-1.2612	89.384
		4.6503	32.95000	54.95000	-0.50000	1.0483	-2.9780	1.1859	-2.9666	-1.0803	89.384
		5.5803	32.96000	55.88000	-0.50000	0.88619	-2.6806	0.91948	-2.6709	-0.91496	89.384
		6.5104	32.97000	56.81000	-0.50000	0.74029	-2.3503	0.69208	-2.3422	-0.76552	89.384
		7.4404	32.98000	57.74000	-0.50000	0.60964	-1.9945	0.50681	-1.9878	-0.63105	89.384
		8.3705	32.99000	58.67000	-0.50000	0.49285	-1.6186	0.36048	-1.6132	-0.51023	89.384
		9.3005	33.00000	59.60000	-0.50000	0.38840	-1.2268	0.24315	-1.2226	-0.40157	89.384
G	Line 7	33.00000	59.60000	-0.50000	0.38840	-1.2268	0.24315	-0.38840	1.2268	180.00
		1.0000	32.00000	59.60000	-0.50000	0.42219	-1.0765	0.20215	-0.42219	1.0765	180.00
		2.0000	31.00000	59.60000	-0.50000	0.42846	-0.90950	0.16254	-0.42846	0.90950	180.00
		3.0000	30.00000	59.60000	-0.50000	0.40680	-0.73136	0.12613	-0.40680	0.73136	180.00
		4.0000	29.00000	59.60000	-0.50000	0.35779	-0.54681	0.093314	-0.35779	0.54681	180.00
		5.0000	28.00000	59.60000	-0.50000	0.28274	-0.35979	0.062742	-0.28274	0.35979	180.00
H	Line 8	28.00000	59.60000	-0.50000	0.28274	-0.35979	0.062742	0.37001	0.26923	272.12
		0.90062	28.03333	58.70000	-0.50000	0.44702	-0.63919	0.11228	0.65529	0.42306	272.12
		1.8012	28.06667	57.80000	-0.50000	0.61872	-0.89765	0.15947	0.91994	0.58507	272.12
		2.7019	28.10000	56.90000	-0.50000	0.81465	-1.1492	0.22261	1.1786	0.77156	272.12
I	Line 9	28.10000	56.90000	-0.50000	0.81465	-1.1492	0.22261	-0.83053	1.1378	179.20
		0.90009	27.20000	56.91250	-0.50000	0.74655	-0.94854	0.17339	-0.75965	0.93808	179.20
		1.8002	26.30000	56.92500	-0.50000	0.64710	-0.74742	0.13460	-0.65742	0.73836	179.20
		2.7003	25.40000	56.93750	-0.50000	0.51893	-0.54878	0.10436	-0.52650	0.54152	179.20
		3.6003	24.50000	56.95000	-0.50000	0.36479	-0.35480	0.077895	-0.36968	0.34970	179.20
		4.5004	23.60000	56.96250	-0.50000	0.18740	-0.16703	0.047151	-0.18970	0.16441	179.20
		5.4005	22.70000	56.97500	-0.50000	0.0	0.0	0.0	0.0	0.0	179.20
		6.3006	21.80000	56.98750	-0.50000	0.0	0.0	0.0	0.0	0.0	179.20
		7.2007	20.90000	57.00000	-0.50000	0.0	0.0	0.0	0.0	0.0	179.20
J	Line 10	33.00000	59.50000	-0.50000	0.39904	-1.2698	0.25487	0.39904	-1.2698	0.0
		1.9500	34.95000	59.50000	-0.50000	0.27890	-1.6274	0.35139	0.27890	-1.6274	0.0
		3.9000	36.90000	59.50000	-0.50000	0.083460	-1.7938	0.40527	0.083460	-1.7938	0.0
		5.8500	38.85000	59.50000	-0.50000	-0.019520	-2.3466	0.55572	-0.019520	-2.3466	0.0
		7.8000	40.80000	59.50000	-0.50000	-0.026807	-2.2646	0.54495	-0.026807	-2.2646	0.0
		9.7500	42.75000	59.50000	-0.50000	-0.0073567	-2.1599	0.52756	-0.0073567	-2.1599	0.0
		11.700	44.70000	59.50000	-0.50000	0.0	-2.1375	0.52099	0.0	-2.1375	0.0
		13.650	46.65000	59.50000	-0.50000	-0.16592	-1.4625	0.35204	-0.16592	-1.4625	0.0
		15.600	48.60000	59.50000	-0.50000	-0.34932	-1.2597	0.28467	-0.34932	-1.2597	0.0
		17.550	50.55000	59.50000	-0.50000	-0.43975	-0.99676	0.20078	-0.43975	-0.99676	0.0
		19.500	52.50000	59.50000	-0.50000	-0.43327	-0.71610	0.12519	-0.43327	-0.71610	0.0
K	Line 11	33.00000	52.20000	-0.50000	1.6434	-3.6495	2.1435	1.6434	-3.6495	0.0
		0.98889	33.98889	52.20000	-0.50000	1.6133	-5.1676	2.7704	1.6133	-5.1676	0.0
		1.9778	34.97778	52.20000	-0.50000	1.5132	-5.7671	2.9924	1.5132	-5.7671	0.0
		2.9667	35.96667	52.20000	-0.50000	1.1591	-6.3770	3.2113	1.1591	-6.3770	0.0
		3.9556	36.95556	52.20000	-0.50000	0.52848	-6.8848	3.4085	0.52848	-6.8848	0.0
		4.9444	37.94444	52.20000	-0.50000	-0.13209	-7.4478	3.9783	-0.13209	-7.4478	0.0
		5.9333	38.93333	52.20000	-0.50000	-0.29779	-7.2372	3.8850	-0.29779	-7.2372	0.0
		6.9222	39.92222	52.20000	-0.50000	-0.41343	-7.0079	3.7806	-0.41343	-7.0079	0.0
		7.9111	40.91111	52.20000	-0.50000	-0.47975	-6.7772	3.6735	-0.47975	-6.7772	0.0
		8.9000	41.90000	52.20000	-0.50000	-0.50297	-6.5585	3.5709	-0.50297	-6.5585	0.0
L	Line 12	37.70000	59.40000	-0.50000	-0.0063522	-2.4370	0.58450	2.4370	-0.0063522	270.00
		0.90000	37.70000	58.50000	-0.50000	-0.012224	-2.9893	0.83698	2.9893	-0.012224	270.00
		1.8000	37.70000	57.60000	-0.50000	-0.018800	-3.5409	1.1468	3.5409	-0.018800	270.00
		2.7000	37.70000	56.70000	-0.50000	-0.026212	-4.0918	1.5177	4.0918	-0.026212	270.00
		3.6000	37.70000	55.80000	-0.50000	-0.034631	-4.6418	1.9455	4.6418	-0.034631	270.00
		4.5000	37.70000	54.90000	-0.50000	-0.044277	-5.1908	2.4177	5.1908	-0.044277	270.00
		5.4000	37.70000	54.00000	-0.50000	-0.055440	-5.8051	2.9254	5.8051	-0.055440	270.00
		6.3000	37.70000	53.10000	-0.50000	-0.068507	-6.6511	3.4618	6.6511	-0.068507	270.00
		7.2000	37.70000	52.20000	-0.50000	-0.084009	-7.4949	3.9987	7.4949	-0.084009	270.00
M	Line 13	42.00000	59.50000	-1.50000	-0.018148	-2.2016	0.53526	2.2016	0.012009	269.22
		0.91259	41.98750	58.58750	-1.50000	-0.066399	-2.7019	0.78440	2.7026	-0.029383	269.22
		1.8252	41.97500	57.67500	-1.50000	-0.11797	-3.1947	1.0812	3.1960	-0.074201	269.22
		2.7378	41.96250	56.76250	-1.50000	-0.17309	-3.6787	1.4283	3.6807	-0.12269	269.22
		3.6503	41.95000	55.85000	-1.50000	-0.23194	-4.1522	1.8200	4.1550	-0.17504	269.22
		4.5629	41.93750	54.93750	-1.50000	-0.29461	-4.6131	2.2420	4.6167	-0.23139	269.22
		5.4755	41.92500	54.02500	-1.50000	-0.36101	-5.1173	2.6826	5.1218	-0.29088	269.22
		6.3881	41.91250	53.11250	-1.50000	-0.43077	-5.8491	3.1361	5.8544	-0.35061	269.22
		7.3007	41.90000	52.20000	-1.50000	-0.50297	-6.5585	3.5709	6.5648	-0.41309	269.22
N	Line 14	45.50000	53.30000	-4.00000	-0.43954	-3.8880	2.0749	-3.8880	0.43954	90.000
		0.87143	45.50000	54.17143	-4.00000	-0.35942	-3.3367	1.7832	-3.3367	0.35942	90.000
		1.7429	45.50000	55.04286	-4.00000	-0.29034	-3.0492	1.5154	-3.0492	0.29034	90.000
		2.6143	45.50000	55.91429	-4.00000	-0.22268	-2.7542	1.2497	-2.7542	0.22268	90.000
		3.4857	45.50000	56.78571	-4.00000	-0.15646	-2.4450	0.99634	-2.4450	0.15646	90.000
		4.3571	45.50000	57.65714	-4.00000	-0.091957	-2.1231	0.76244	-2.1231	0.091957	90.000
		5.2286	45.50000	58.52857	-4.00000	-0.032879	-1.7966	0.54987	-1.7966	0.032879	90.000
		6.1000	45.50000	59.40000	-4.00000	-0.026484	-1.5626	0.39024	-1.5626	0.026484	90.000
O	Line 15	37.70000	52.20000	-0.68000	-0.084009	-7.4949	3.9987	7.4949	-0.084009	270.00
		0.92000	37.70000	51.28000	-0.68000	-0.10315	-8.3544	4.5526	8.3544	-0.10315	270.00
		1.8400	37.70000	50.36000	-0.68000	-0.12679	-9.2097	5.0834	9.2097	-0.12679	270.00
		2.7600	37.70000	49.44000	-0.68000	-0.15765	-10.074	5.5319	10.074	-0.15765	270.00
		3.6800	37.70000	48.52000	-0.68000	-0.21764	-11.206	5.8388	11.206	-0.21764	270.00
		4.6000	37.70000	47.60000	-0.68000	-0.29936	-12.317	5.8644	12.317	-0.29936	270.00
P	Line 16	45.50000	53.30000	-1.85000	-0.43954	-3.8880	2.0749	3.8880	-0.43954	270.00
		0.95000	45.50000	52.35000	-1.85000	-0.53301	-4.4656	2.3786	4.4656	-0.53301	270.00
		1.9000	45.50000	51.40000	-1.85000	-0.63920	-5.0148	2.6946	5.0148	-0.63920	270.00
		2.8500	45.50000	50.45000	-1.85000	-0.78337	-5.5339	3.0196	5.5339	-0.78337	270.00
		3.8000	45.50000	49.50000	-1.85000	-1.0435	-6.0101	3.3190	6.0101	-1.0435	270.00
		4.7500	45.50000	48.55000	-1.85000	-1.7169	-6.2873	3.5094	6.2873	-1.7169	270.00
		5.7000	45.50000	47.60000	-1.85000	-8.8453	-2.3971	4.1963	2.3971	-8.8453	270.00
Q	Line 17	41.90000	52.20000	-0.65000	-0.50297	-6.5585	3.5709	6.5585	-0.50297	270.00
		0.92000	41.90000	51.28000	-0.65000	-0.57631	-7.2432	3.9945	7.2432	-0.57631	270.00
		1.8400	41.90000	50.36000	-0.65000	-0.64645	-7.8934	4.3773	7.8934	-0.64645	270.00
		2.7600	41.90000	49.44000	-0.65000	-0.70706	-8.5019	4.6605	8.5019	-0.70706	270.00
		3.6800	41.90000	48.52000	-0.65000	-0.74752	-9.0616	4.7536	9.0616	-0.74752	270.00
		4.6000	41.90000	47.60000	-0.65000	-0.75374	-9.5701	4.5373	9.5701	-0.75374	270.00
R	Line 18	33.00000	50.30000	-0.50000	2.7857	-4.1193	3.0831	3.9629	3.0040	266.91
		0.92635	32.95000	49.37500	-0.50000	3.4053	-4.0423	3.5267	3.8526	3.6185	266.91
		1.8527	32.90000	48.45000	-0.50000	3.9818	-3.9928	3.9581	3.7721	4.1915	266.91
		2.7791	32.85000	47.52500	-0.50000	5.8894	-4.0768	5.2546	3.7529	6.1009	266.91

Type/No.		Coordinates			Displacements					Angle of Line
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
	3.7054	32.80000	46.60000	-0.50000	6.1236	-4.5276	5.5003	4.1905	6.3590	266.91
	4.6318	32.75000	45.67500	-0.50000	6.5127	-4.8929	5.7456	4.5343	6.7673	266.91
	5.5581	32.70000	44.75000	-0.50000	7.2247	-5.0200	5.9451	4.6227	7.4851	266.91
	6.4845	32.65000	43.82500	-0.50000	8.6347	-4.2250	5.9910	3.7528	8.8502	266.91
	7.4108	32.60000	42.90000	-0.50000	13.631	-0.81225	7.2185	0.075306	13.655	266.91
S	Line 19	54.40000	58.50000	-0.50000	-0.47973	-0.57462	0.10607	0.17186	-0.72856	306.87
	1.9375	55.56250	56.95000	-0.50000	-0.63517	-0.57869	0.12919	0.081852	-0.85535	306.87
	3.8750	56.72500	55.40000	-0.50000	-0.75440	-0.51504	0.13874	-0.040609	-0.91255	306.87
	5.8125	57.88750	53.85000	-0.50000	-0.80597	-0.40018	0.13086	-0.16343	-0.88488	306.87
	7.7500	59.05000	52.30000	-0.50000	-0.76786	-0.26247	0.10952	-0.25074	-0.77177	306.87
	9.6875	60.21250	50.75000	-0.50000	-0.86176	-0.21956	0.11516	-0.34141	-0.82114	306.87
	11.625	61.37500	49.20000	-0.50000	-0.59146	-0.15069	0.084683	-0.23432	-0.56358	306.87
	13.562	62.53750	47.65000	-0.50000	-0.32116	-0.081825	0.055634	-0.12724	-0.30602	306.87
	15.500	63.70000	46.10000	-0.50000	-0.050858	-0.012958	0.014224	-0.020149	-0.048461	306.87
	17.438	64.86250	44.55000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	19.375	66.02500	43.00000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	21.313	67.18750	41.45000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	23.250	68.35000	39.90000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	25.188	69.51250	38.35000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	27.125	70.67500	36.80000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	29.063	71.83750	35.25000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
	31.000	73.00000	33.70000	-0.50000	0.0	0.0	0.0	0.0	0.0	306.87
T	Line 20	45.50000	53.30000	-0.50000	-0.43954	-3.8880	2.0749	2.7774	-2.7560	308.33
	1.9859	46.73158	51.74211	-0.50000	-1.6011	-4.0329	2.2614	2.1708	-3.7571	308.33
	3.9718	47.96316	50.18421	-0.50000	-3.2511	-3.9740	2.3241	0.39526	-4.4568	308.33
	5.9577	49.19474	48.62632	-0.50000	-4.5965	-1.2593	2.5541	-1.8627	-4.3868	308.33
	7.9436	50.42632	47.06842	-0.50000	-5.3530	-1.3730	3.1159	-2.2427	-5.0507	308.33
	9.9295	51.65789	45.51053	-0.50000	-4.7279	-1.1991	2.7934	-1.9914	-4.4525	308.33
	11.915	52.88947	43.95263	-0.50000	-4.1226	-1.0457	2.4523	-1.7364	-3.8826	308.33
	13.901	54.12105	42.39474	-0.50000	-3.7578	-0.95702	2.1176	-1.5797	-3.5414	308.33
	15.887	55.35263	40.83684	-0.50000	-3.4625	-0.88218	1.7864	-1.4553	-3.2634	308.33
	17.873	56.58421	39.27895	-0.50000	-3.1686	-0.80730	1.4638	-1.3317	-2.9863	308.33
	19.859	57.81579	37.72105	-0.50000	-3.4125	-0.83957	2.6131	-1.4577	-3.1977	308.33
	21.845	59.04737	36.16316	-0.50000	-2.9574	-0.57131	2.1430	-1.3859	-2.6743	308.33
	23.831	60.27895	34.60526	-0.50000	-2.4584	-0.47491	1.7087	-1.1520	-2.2230	308.33
	25.817	61.51053	33.04737	-0.50000	-1.9629	-0.37920	1.3290	-0.91984	-1.7750	308.33
	27.803	62.74211	31.48947	-0.50000	-1.5685	-0.30300	1.0032	-0.73502	-1.4184	308.33
	29.789	63.97368	29.93158	-0.50000	-1.2321	-0.23801	0.72546	-0.57736	-1.1141	308.33
	31.774	65.20526	28.37368	-0.50000	-0.46406	-0.054490	0.41869	-0.24504	-0.39783	308.33
	33.760	66.43684	26.81579	-0.50000	-0.23956	-0.0031644	0.16831	-0.14609	-0.18989	308.33
	35.746	67.66842	25.25789	-0.50000	0.0	0.0	0.0	0.0	0.0	308.33
	37.732	68.90000	23.70000	-0.50000	0.0	0.0	0.0	0.0	0.0	308.33
U	Line 21	63.00000	47.00000	-0.50000	-0.21661	-0.055188	0.041913	0.20657	-0.085397	216.75
	0.98600	62.21000	46.41000	-0.50000	-0.54774	-0.13955	0.080222	0.52236	-0.21594	216.75
	1.9720	61.42000	45.82000	-0.50000	-0.87886	-0.22392	0.11742	0.83814	-0.34648	216.75
	2.9580	60.63000	45.23000	-0.50000	-1.2100	-0.30828	0.17487	1.1539	-0.47703	216.75
	3.9440	59.84000	44.64000	-0.50000	-1.5411	-0.39265	0.26881	1.4697	-0.60757	216.75
	4.9300	59.05000	44.05000	-0.50000	-1.8722	-0.47701	0.41031	1.7855	-0.73812	216.75
	5.9160	58.26000	43.46000	-0.50000	-2.2034	-0.56137	0.60534	2.1013	-0.86866	216.75
	6.9020	57.47000	42.87000	-0.50000	-2.5345	-0.64574	0.85470	2.4171	-0.99920	216.75
	7.8880	56.68000	42.28000	-0.50000	-2.8656	-0.73010	1.1541	2.7329	-1.1297	216.75
	8.8740	55.89000	41.69000	-0.50000	-3.1967	-0.81447	1.4940	3.0486	-1.2603	216.75
	9.8600	55.10000	41.10000	-0.50000	-3.5279	-0.89883	1.8598	3.3644	-1.3908	216.75
V	Line 22	55.10000	41.10000	-0.50000	-3.5279	-0.89883	1.8598	3.3539	-1.4161	217.18
	0.91001	54.37500	40.55000	-0.50000	-3.8325	-0.97645	2.2024	3.6435	-1.5384	217.18
	1.8200	53.65000	40.00000	-0.50000	-4.2615	-1.0857	2.5518	4.0513	-1.7106	217.18
	2.7300	52.92500	39.45000	-0.50000	-4.8369	-1.2324	2.8876	4.5984	-1.9416	217.18
	3.6401	52.20000	38.90000	-0.50000	-5.4124	-1.3790	3.2034	5.1454	-2.1726	217.18
W	Line 23	52.20000	38.90000	-1.70000	-5.4124	-1.3790	3.2034	-2.2344	-5.1189	307.87
	0.57009	52.55000	38.45000	-1.70000	-5.2558	-1.3391	3.1186	-2.1698	-4.9708	307.87
	1.1402	52.90000	38.00000	-1.70000	-5.0993	-1.2992	3.0331	-2.1051	-4.8228	307.87
X	Line 24	66.40000	42.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.63
	0.97201	65.62000	41.92000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.63
	1.9440	64.84000	41.34000	-0.50000	-0.076477	-0.019485	0.019100	0.072997	-0.029998	216.63
	2.9160	64.06000	40.76000	-0.50000	-0.40318	-0.10272	0.065078	0.38484	-0.15815	216.63
	3.8880	63.28000	40.18000	-0.50000	-0.72866	-0.18462	0.099136	0.69488	-0.28665	216.63
	4.8600	62.50000	39.60000	-0.50000	-1.0578	-0.26025	0.14441	1.0041	-0.42235	216.63
	5.8320	61.72000	39.02000	-0.50000	-1.3841	-0.34052	0.30050	1.3138	-0.55262	216.63
	6.8041	60.94000	38.44000	-0.50000	-1.6923	-0.41026	1.1487	1.6028	-0.68060	216.63
	7.7761	60.16000	37.86000	-0.50000	-2.1506	-0.44987	1.4864	1.9942	-0.92227	216.63
	8.7481	59.38000	37.28000	-0.50000	-2.6627	-0.51439	1.8806	2.4437	-1.1761	216.63
	9.7201	58.60000	36.70000	-0.50000	-3.1431	-0.60718	2.3164	2.8845	-1.3882	216.63
Y	Line 25	58.60000	36.70000	-1.40000	-3.1431	-0.60718	2.3164	2.8710	-1.4159	217.18
	0.91001	57.87500	36.15000	-1.40000	-3.5965	-0.69478	2.7617	3.2852	-1.6202	217.18
	1.8200	57.15000	35.60000	-1.40000	-4.0576	-0.78384	3.2365	3.7064	-1.8278	217.18
	2.7300	56.42500	35.05000	-1.40000	-4.5281	-0.87474	3.7295	4.1362	-2.0398	217.18
	3.6401	55.70000	34.50000	-1.40000	-5.0099	-0.96783	4.2260	4.5763	-2.2569	217.18
Z	Line 26	69.70000	38.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.51
	0.95802	68.93000	37.53000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.51
	1.9160	68.16000	36.96000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.51
	2.8741	67.39000	36.39000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.51
	3.8321	66.62000	35.82000	-0.50000	0.0	0.0	0.0	0.0	0.0	216.51
	4.7901	65.85000	35.25000	-0.50000	-0.18234	-0.035224	0.036508	0.16751	-0.080175	216.51
	5.7481	65.08000	34.68000	-0.50000	-0.50051	-0.096689	0.22659	0.45981	-0.22008	216.51
	6.7061	64.31000	34.11000	-0.50000	-0.81867	-0.15815	0.43310	0.75210	-0.35998	216.51
	7.6642	63.54000	33.54000	-0.50000	-1.1368	-0.21962	0.65415	1.0444	-0.49988	216.51
	8.6222	62.77000	32.97000	-0.50000	-1.4550	-0.28108	0.90462	1.3367	-0.63978	216.51
	9.5802	62.00000	32.40000	-0.50000	-1.7732	-0.34255	1.1953	1.6290	-0.77968	216.51
AA	Line 27	62.00000	32.40000	-1.40000	-1.7732	-0.34255	1.1953	1.6491	-0.73623	214.99
	0.91549	61.25000	31.87500	-1.40000	-2.2219	-0.42923	1.5208	2.0664	-0.92254	214.99
	1.8310	60.50000	31.35000	-1.40000	-2.6764	-0.51704	1.8925	2.4891	-1.1113	214.99
	2.7465	59.75000	30.82500	-1.40000	-3.1349	-0.60561	2.3087	2.9155	-1.3016	214.99
	3.6620	59.00000	30.30000	-1.40000	-3.5993	-0.69532	2.7645	3.3474	-1.4944	214.99
AB	Line 28	73.00000	33.70000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	0.94626	72.23000	33.15000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	1.8925	71.46000	32.60000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	2.8388	70.69000	32.05000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	3.7850	69.92000	31.50000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	4.7313	69.15000	30.95000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	5.6775	68.38000	30.40000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	6.6238	67.61000	29.85000	-0.50000	0.0	0.0	0.0	0.0	0.0	215.54
	7.5700	66.84000	29.30000	-0.50000	-0.12564	-0.020264	0.032112	0.11401	-0.056536	215.54
	8.5163	66.07000	28.75000	-0.50000	-0.28912	-0.038923	0.21877	0.25789	-0.13637	215.54
	9.4626	65.30000	28.20000	-0.50000	-0.44864	-0.047225	0.40168	0.39252	-0.22234	215.54
AC	Line 29	65.30000	28.20000	-0.50000	-0.44864	-0.047225	0.40168	0.38995	-0.22681	216.19
	0.84673	64.61667	27.70000	-0.50000	-0.58604	-0.044407	0.56740	0.49017	-0.31022	216.19
	1.6935	63.93333	27.20000	-0.50000	-0.71813	-0.031148	0.73963	0.59795	-0.39893	216.19
	2.5402	63.25000	26.70000	-0.50000	-0.84357	-0.0064149	0.91993	0.68457	-0.49296	216.19
	3.3869	62.56667	26.20000	-0.50000	-1.0114	0.032452	1.1082	0.79708	-0.62344	216.19
	4.2336	61.88333	25.70000	-0.50000	-1.2335	0.094211	1.3027	0.93981	-0.80440	216.19
	5.0804	61.20000	25.20000	-0.50000	-1.4380	0.18137	1.5004	1.0534	-0.99553	216.19
AD	Line 30	61.20000	25.20000	-1.46000	-1.4380	0.18137	1.5004	1.4494	0.0029653	172.69
	0.98298	60.22500	25.32500	-1.46000	-1.7951	0.22605	1.8394	1.8093	0.0040583	172.69
	1.9660	59.25000	25.45000	-1.46000	-2.1609	0.27159	2.2046	2.1779	0.0054057	172.69
	2.9489	58.27500	25.57500	-1.46000	-2.5386	0.31830	2.5886	2.5585	0.0071080	172.69
	3.9319	57.30000	25.70000	-1.46000	-2.9317	0.36646	2.9808	2.9545	0.0093202	172.69
	4.9149	56.32500	25.82500	-1.46000	-3.3435	0.41626	3.3671	3.3693	0.012294	172.69
	5.8979	55.35000	25.95000	-1.46000	-3.7775	0.46769	3.7298	3.8063	0.016469	172.69
	6.8809	54.37500	26.07500	-1.46000	-4.2372	0.52035	4.0483	4.2689	0.022687	172.69
	7.8638	53.40000	26.20000	-1.46000	-4.7268	0.57305	4.2987	4.7613	0.032679	172.69
AE	Line 31	61.20000	25.20000	-0.50000	-1.4380	0.18137	1.5004	-0.094046	-1.4463	266.53
	0.82651	61.15000	24.37500	-0.50000	-1.3668	0.27522	1.4658	-0.19203	-1.3810	266.53
	1.6530	61.10000	23.55000	-0.50000	-1.2713	0.35250	1.4131	-0.27494	-1.2903	266.53
	2.4795	61.05000	22.72500	-0.50000	-1.1559	0.40906	1.3443	-0.33838	-1.1786	266.53
	3.3061	61.00000	21.90000	-0.50000	-1.0255	0.44221	1.2616	-0.37936	-1.0504	266.53
AF	Line 32	50.30000	26.50000	-1.46000	-5.6641	2.8224	4.2212	-2.2814	-5.9028	264.64
	0.80351	50.22500	25.70000	-1.46000	-0.95231	6.1375	4.4653	-6.0219	-1.5210	264.64
	1.6070	50.15000	24.90000	-1.46000	-0.27474	5.8229	4.5611	-5.7718	-0.81705	264.64
	2.4105	50.07500	24.10000	-1.46000	-0.044963	5.4068	4.5332	-5.3790	-0.54944	264.64
	3.2140	50.00000	23.30000	-1.46000	0.062335	4.9866	4.4122	-4.9707	-0.40339	264.64

Type/No.		Coordinates			Displacements					Angle of Line
Name	Dist.	x	y	z	x	y	z	Horizontal displacement	Horizontal displacement	to x Axis
AG	Line 33	50.00000	23.30000	-0.50000	0.062335	4.9866	4.4122	-0.57817	4.9534	352.63
	1.9046	51.88889	23.05556	-0.50000	-1.9060	3.7728	4.0146	-2.3745	3.4969	352.63
	3.8093	53.77778	22.81111	-0.50000	-2.3840	2.4560	3.4936	-2.6794	2.1297	352.63
	5.7139	55.66667	22.56667	-0.50000	-2.2879	1.6577	2.9696	-2.4817	1.3503	352.63
	7.6186	57.55556	22.32222	-0.50000	-1.9329	1.1090	2.3589	-2.0592	0.85179	352.63
	9.5232	59.44444	22.07778	-0.50000	-1.4572	0.70519	1.7334	-1.5356	0.51235	352.63
	11.428	61.33333	21.83333	-0.50000	-0.92414	0.39214	1.1640	-0.96682	0.27029	352.63
	13.332	63.22222	21.58889	-0.50000	-0.56337	0.21514	0.67852	-0.58633	0.14106	352.63
	15.237	65.11111	21.34444	-0.50000	-0.27396	0.095917	0.25891	-0.28401	0.059963	352.63
	17.142	67.00000	21.10000	-0.50000	0.0	0.0	0.0	0.0	0.0	352.63
AH	Line 34	59.00000	20.70000	-0.50000	-1.2213	0.80960	1.6177	1.3032	-0.66978	173.66
	0.90554	58.10000	20.80000	-0.50000	-1.3947	1.0111	1.8787	1.4978	-0.85094	173.66
	1.8111	57.20000	20.90000	-0.50000	-1.5381	1.2348	2.1413	1.6650	-1.0574	173.66
	2.7166	56.30000	21.00000	-0.50000	-1.6415	1.4827	2.3977	1.7952	-1.2923	173.66
	3.6222	55.40000	21.10000	-0.50000	-1.7260	1.7911	2.6647	1.9132	-1.5896	173.66
	4.5277	54.50000	21.20000	-0.50000	-1.7623	2.1628	2.9363	1.9903	-1.9550	173.66
	5.4332	53.60000	21.30000	-0.50000	-1.7049	2.5817	3.1948	1.9796	-2.3776	173.66
	6.3388	52.70000	21.40000	-0.50000	-1.5172	3.0344	3.4329	1.8430	-2.8483	173.66
AI	Line 35	52.70000	21.40000	-0.50000	-1.5172	3.0344	3.4329	-2.7837	-1.9392	261.70
	0.97015	52.56000	20.44000	-0.50000	-1.1492	2.8778	3.1603	-2.6818	-1.5525	261.70
	1.9403	52.42000	19.48000	-0.50000	-0.86356	2.6502	2.8497	-2.4979	-1.2370	261.70
	2.9105	52.28000	18.52000	-0.50000	-0.64269	2.3821	2.5178	-2.2644	-0.97971	261.70
	3.8806	52.14000	17.56000	-0.50000	-0.47174	2.0905	2.1798	-2.0005	-0.76848	261.70
	4.8508	52.00000	16.60000	-0.50000	-0.33914	1.7850	1.8480	-1.7173	-0.59318	261.70
AJ	Line 36	52.00000	16.60000	-0.50000	-0.33914	1.7850	1.8480	0.55553	-1.7299	172.95
	0.99641	51.01111	16.72222	-0.50000	-0.17932	1.9441	1.9569	0.41643	-1.9074	172.95
	1.9928	50.02222	16.84444	-0.50000	0.016393	2.0561	2.0342	0.23594	-2.0426	172.95
	2.9892	49.03333	16.96667	-0.50000	0.23374	2.1110	2.0754	0.026961	-2.1237	172.95
	3.9857	48.04444	17.08889	-0.50000	0.46837	3.4867	2.6190	-0.037140	-3.5179	172.95
	4.9821	47.05556	17.21111	-0.50000	0.46757	3.4808	2.6132	-0.037077	-3.5119	172.95
	5.9785	46.06667	17.33333	-0.50000	0.45143	3.4992	2.6141	-0.018797	-3.5282	172.95
	6.9749	45.07778	17.45556	-0.50000	0.41344	3.5613	2.6195	0.026526	-3.5851	172.95
	7.9713	44.08889	17.57778	-0.50000	0.37953	3.6326	2.6231	0.068919	-3.6517	172.95
	8.9677	43.10000	17.70000	-0.50000	0.35181	3.7127	2.6269	0.10626	-3.7278	172.95
AK	Line 37	43.10000	17.70000	-0.50000	0.35181	3.7127	2.6269	3.7252	0.17679	81.870
	0.98995	43.24000	18.68000	-0.50000	0.37498	4.3600	3.2069	4.3692	0.24538	81.870
	1.9799	43.38000	19.66000	-0.50000	0.39968	5.0022	3.8220	5.0084	0.31175	81.870
	2.9698	43.52000	20.64000	-0.50000	0.42833	5.6404	4.4471	5.6443	0.37365	81.870
	3.9598	43.66000	21.62000	-0.50000	0.46421	6.2758	5.0471	6.2784	0.42799	81.870
	4.9497	43.80000	22.60000	-0.50000	0.51166	6.9099	5.5779	6.9128	0.47070	81.870
AL	Line 38	43.80000	22.60000	-0.50000	0.51166	6.9099	5.5779	0.36748	-6.9191	172.72
	0.94763	42.86000	22.72000	-0.50000	0.46600	7.0414	5.6398	0.42943	-7.0438	172.72
	1.8953	41.92000	22.84000	-0.50000	0.43271	7.1985	5.7182	0.48234	-7.1954	172.72
	2.8429	40.98000	22.96000	-0.50000	0.41980	7.3821	5.8128	0.51839	-7.3758	172.72
	3.7905	40.04000	23.08000	-0.50000	0.43705	7.5906	5.9216	0.52768	-7.5849	172.72
	4.7381	39.10000	23.20000	-0.50000	0.49513	7.8186	6.0411	0.49894	-7.8184	172.72
AM	Line 39	39.10000	23.20000	-0.50000	0.49513	7.8186	6.0411	-7.8338	-0.083792	265.76
	0.90247	39.03333	22.30000	-0.50000	0.48226	7.1464	5.4596	-7.1625	-0.046971	265.76
	1.8049	38.96667	21.40000	-0.50000	0.46387	6.4745	4.8255	-6.4910	-0.015682	265.76
	2.7074	38.90000	20.50000	-0.50000	0.44038	5.8046	4.1772	-5.8213	0.010377	265.76
AN	Line 40	38.90000	20.50000	-0.50000	0.44038	5.8046	4.1772	0.43416	-5.8051	171.38
	0.83442	38.07500	20.62500	-0.50000	0.50216	5.9454	4.2358	0.39416	-5.9536	171.38
	1.6688	37.25000	20.75000	-0.50000	0.58497	6.0798	4.2931	0.33242	-6.0988	171.38
	2.5032	36.42500	20.87500	-0.50000	0.68791	6.2020	4.3461	0.24895	-6.2351	171.38
	3.3377	35.60000	21.00000	-0.50000	0.70488	5.1514	3.7729	0.074780	-5.1989	171.38
AO	Line 41	35.60000	21.00000	-0.50000	0.70488	5.1514	3.7729	5.1987	-0.086096	83.157
	0.83931	35.70000	21.83333	-0.50000	0.79949	5.7524	4.3333	5.8066	-0.10843	83.157
	1.6786	35.80000	22.66667	-0.50000	0.90292	6.3651	4.9000	6.4273	-0.13812	83.157
	2.5179	35.90000	23.50000	-0.50000	1.0192	6.9901	5.4496	7.0617	-0.17909	83.157
AP	Line 42	35.90000	23.50000	-0.50000	1.0192	6.9901	5.4496	0.091724	-7.0634	170.96
	0.89107	35.02000	23.64000	-0.50000	1.9773	7.8159	5.9080	-0.72475	-8.0295	170.96
	1.7821	34.14000	23.78000	-0.50000	2.5527	7.2541	5.7259	-1.3813	-7.5651	170.96
	2.6732	33.26000	23.92000	-0.50000	2.9032	6.6463	5.5043	-1.8229	-7.0198	170.96
	3.5643	32.38000	24.06000	-0.50000	3.0540	6.0677	5.2523	-2.0627	-6.4722	170.96
	4.4553	31.50000	24.20000	-0.50000	3.0230	4.4851	4.4806	-2.2808	-4.9043	170.96
AQ	Line 43	31.50000	24.20000	-0.50000	3.0230	4.4851	4.4806	-4.8675	2.3584	261.87
	0.98995	31.36000	23.22000	-0.50000	2.5478	4.2473	3.9078	-4.5650	1.9215	261.87
	1.9799	31.22000	22.24000	-0.50000	2.1543	3.9437	3.3613	-4.2088	1.5749	261.87
	2.9698	31.08000	21.26000	-0.50000	1.7944	3.5608	2.8296	-3.7788	1.2728	261.87
	3.9598	30.94000	20.28000	-0.50000	1.4675	3.1204	2.3346	-3.2966	1.0115	261.87
	4.9497	30.80000	19.30000	-0.50000	1.1701	2.6379	1.8906	-2.7769	0.78527	261.87
AR	Line 44	35.60000	12.40000	-0.50000	0.079679	0.59317	0.28271	0.59849	-0.0019856	82.539
	0.94130	35.72222	13.33333	-0.50000	0.12667	0.94301	0.51082	0.95147	-0.0031566	82.539
	1.8826	35.84444	14.26667	-0.50000	0.17367	1.2929	0.76308	1.3045	-0.0043277	82.539
	2.8239	35.96667	15.20000	-0.50000	0.22939	1.8187	1.0873	1.8331	0.0086967	82.539
	3.7652	36.08889	16.13333	-0.50000	0.29724	2.4703	1.4553	2.4879	0.026027	82.539
	4.7065	36.21111	17.06667	-0.50000	0.37267	3.1946	1.8836	3.2159	0.045284	82.539
	5.6478	36.33333	18.00000	-0.50000	0.44580	3.9210	2.3846	3.9457	0.067099	82.539
	6.5891	36.45556	18.93333	-0.50000	0.51645	4.6520	2.9611	4.6797	0.091958	82.539
	7.5304	36.57778	19.86667	-0.50000	0.58428	5.3897	3.6063	5.4199	0.12048	82.539
	8.4717	36.70000	20.80000	-0.50000	0.64875	6.1361	4.3037	6.1683	0.15347	82.539
AS	Line 45	44.70000	9.30000	-0.50000	0.0	0.0	0.0	0.0	0.0	82.962
	0.90683	44.81111	10.20000	-0.50000	0.032045	0.23856	0.052628	0.24069	-0.0025739	82.962
	1.8137	44.92222	11.10000	-0.50000	0.077316	0.57557	0.27148	0.58071	-0.0062102	82.962
	2.7205	45.03333	12.00000	-0.50000	0.12259	0.91259	0.49031	0.92073	-0.0098465	82.962
	3.6273	45.14444	12.90000	-0.50000	0.16786	1.2496	0.72996	1.2608	-0.013483	82.962
	4.5342	45.25556	13.80000	-0.50000	0.21313	1.5866	1.0062	1.6008	-0.017119	82.962
	5.4410	45.36667	14.70000	-0.50000	0.26631	1.9825	1.3298	2.0002	-0.021391	82.962
	6.3478	45.47778	15.60000	-0.50000	0.33298	2.4788	1.7066	2.5010	-0.026746	82.962
	7.2547	45.58889	16.50000	-0.50000	0.40012	2.9787	2.1370	3.0053	-0.032139	82.962
	8.1615	45.70000	17.40000	-0.50000	0.43747	3.5348	2.6285	3.5618	-0.0010608	82.962
AT	Line 46	54.50000	10.00000	-0.50000	-0.019508	0.073597	0.015524	0.070799	0.028010	83.260
	1.8461	54.71667	11.83333	-0.50000	-0.11182	0.35767	0.35466	0.34208	0.15303	83.260
	3.6922	54.93333	13.66667	-0.50000	-0.22991	0.61520	0.73892	0.58396	0.30052	83.260
	5.5383	55.15000	15.50000	-0.50000	-0.42065	0.92460	1.1684	0.86884	0.52626	83.260
	7.3844	55.36667	17.33333	-0.50000	-0.75030	1.3201	1.6391	1.2230	0.90005	83.260
	9.2305	55.58333	19.16667	-0.50000	-1.1694	1.5852	2.1132	1.4370	1.3473	83.260
	11.077	55.80000	21.00000	-0.50000	-1.6713	1.6419	2.5289	1.4344	1.8524	83.260
AU	Line 47	33.10000	38.60000	-2.00000	14.687	-0.87360	7.2961	-14.713	0.046092	176.78
	0.88891	32.21250	38.65000	-2.00000	13.430	-0.80121	7.1565	-13.454	0.044528	176.78
	1.7778	31.32500	38.70000	-2.00000	12.173	-0.72882	6.7541	-12.194	0.042964	176.78
	2.6667	30.43750	38.75000	-2.00000	10.959	-0.65852	6.1723	-10.979	0.041030	176.78
	3.5556	29.55000	38.80000	-2.00000	9.9982	-0.60030	5.5251	-10.016	0.036964	176.78
	4.4445	28.66250	38.85000	-2.00000	9.0370	-0.54208	4.8443	-9.0532	0.032898	176.78
	5.3334	27.77500	38.90000	-2.00000	8.0759	-0.48386	4.1684	-8.0903	0.028832	176.78
	6.2224	26.88750	38.95000	-2.00000	7.1148	-0.42564	3.5050	-7.1274	0.024767	176.78
	7.1113	26.00000	39.00000	-2.00000	6.3270	-0.37909	2.8727	-6.3383	0.022600	176.78
AV	Line 48	26.00000	39.00000	-2.00000	6.3270	-0.37909	2.8727	-0.033473	6.3383	266.27
	0.92195	25.94000	38.08000	-2.00000	6.3218	-0.37885	2.8692	-0.033368	6.3330	266.27
	1.8439	25.88000	37.16000	-2.00000	6.3165	-0.37861	2.8658	-0.033264	6.3278	266.27
	2.7659	25.82000	36.24000	-2.00000	6.3113	-0.37838	2.8623	-0.033159	6.3225	266.27
	3.6878	25.76000	35.32000	-2.00000	6.3060	-0.37814	2.8589	-0.033054	6.3173	266.27
	4.6098	25.70000	34.40000	-2.00000	6.3008	-0.37790	2.8555	-0.032949	6.3120	266.27
	5.5317	25.64000	33.48000	-2.00000	6.2955	-0.37766	2.8521	-0.032844	6.3068	266.27
	6.4537	25.58000	32.56000	-2.00000	4.9923	-0.13534	2.1229	-0.18984	4.9905	266.27
	7.3756	25.52000	31.64000	-2.00000	4.8334	0.18351	2.0297	-0.49767	4.8113	266.27
	8.2976	25.46000	30.72000	-2.00000	4.6233	0.44561	1.9131	-0.74555	4.5845	266.27
	9.2195	25.40000	29.80000	-2.00000	4.3843	0.64128	1.7797	-0.92525	4.3333	266.27
AW	Line 49	25.40000	29.80000	-2.00000	4.3843	0.64128	1.7797	4.3363	0.91113	356.46
	1.8869	27.28333	29.68333	-2.00000	5.3530	1.0496	2.7235	5.2779	1.3786	356.46
	3.7739	29.16667	29.56667	-2.00000	6.2178	1.8603	3.7125	6.0909	2.2411	356.46
	5.6608	31.05000	29.45000	-2.00000	6.7856	3.4879	5.0793	6.5569	3.9008	356.46
	7.5478	32.93333	29.33333	-2.00000	6.9081	6.2525	7.1818	6.5083	6.6676	356.46
	9.4347	34.81667	29.21667	-2.00000	8.2526	6.2674	7.7709	7.8493	6.7657	356.46
	11.322	36.70000	29.10000	-2.00000	8.9332	4.0276	6.3708	8.6671	4.5722	356.46

Specific Building Damage Results - Horizontal Displacements

Type/No. Name	Dist.	Coordinates x	y	z	Displacements x	y	z	Horizontal dispalcement	Horizontal displacement	Angle of Line to x Axis

Structure: A | Sub-structure:

Dist.	Coordinates x	y	z	Displacements x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	22.50000	48.10000	-0.50000	2.0599	-0.58186	2.0599	-0.58186
0.85000	23.35000	48.10000	-0.50000	2.4980	-0.70465	2.4980	-0.70465
1.7000	24.20000	48.10000	-0.50000	2.9183	-0.83724	2.9183	-0.83724
2.5500	25.05000	48.10000	-0.50000	3.3166	-0.98006	3.3166	-0.98006
3.4000	25.90000	48.10000	-0.50000	3.6878	-1.1330	3.6878	-1.1330

Structure: B | Sub-structure:

Dist.	Coordinates x	y	z	Displacements x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	25.90000	48.10000	-0.50000	3.6878	-1.1330	1.1330	3.6878
0.77500	25.90000	47.32500	-0.50000	3.8950	-1.0946	1.0946	3.8950
1.5500	25.90000	46.55000	-0.50000	4.1090	-1.0195	1.0195	4.1090
2.3250	25.90000	45.77500	-0.50000	4.3229	-0.90311	0.90311	4.3229
3.1000	25.90000	45.00000	-0.50000	4.5276	-0.74276	0.74276	4.5276

Structure: C | Sub-structure:

Dist.	Coordinates x	y	z	Displacements x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	25.90000	45.00000	-0.50000	4.5276	-0.74276	4.5427	-0.64418
0.92022	26.82000	44.98000	-0.50000	5.0254	-0.88952	5.0435	-0.78008
1.8404	27.74000	44.96000	-0.50000	5.6733	-1.1322	5.6966	-1.0086
2.7607	28.66000	44.94000	-0.50000	6.3528	-1.4737	6.3833	-1.3352
3.6809	29.58000	44.92000	-0.50000	6.9234	-1.9106	6.9633	-1.7596
4.6011	30.50000	44.90000	-0.50000	7.2971	-2.4754	7.3492	-2.3162

Structure: D | Sub-structure:

Dist.	Coordinates x	y	z	Displacements x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	30.50000	44.90000	-0.50000	7.2971	-2.4754	-2.6100	-7.2500
0.90015	30.48333	45.80000	-0.50000	6.4482	-2.6616	-2.7806	-6.3978
1.8003	30.46667	46.70000	-0.50000	5.8954	-2.7221	-2.8308	-5.8440
2.7005	30.45000	47.60000	-0.50000	5.4556	-2.6384	-2.7389	-5.4058
3.6006	30.43333	48.50000	-0.50000	3.7464	-2.5587	-2.6276	-3.6984
4.5008	30.41667	49.40000	-0.50000	3.3290	-2.6966	-2.7577	-3.2785
5.4009	30.40000	50.30000	-0.50000	2.9460	-2.8070	-2.8610	-2.8936

Structure: E | Sub-structure:

Dist.	Coordinates x	y	z	Displacements x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	30.40000	50.30000	-0.50000	2.9460	-2.8070	2.9460	-2.8070
0.83333	31.23333	50.30000	-0.50000	2.8751	-3.1596	2.8751	-3.1596
1.6667	32.06667	50.30000	-0.50000	2.8491	-3.5807	2.8491	-3.5807
2.5000	32.90000	50.30000	-0.50000	2.8006	-4.0607	2.8006	-4.0607

Structure: F | Sub-structure:

Dist.	Coordinates x	y	z	Displacements x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	32.90000	50.30000	-0.50000	2.8006	-4.0607	-4.0303	-2.8441
0.93005	32.91000	51.23000	-0.50000	2.2091	-3.9302	-3.9062	-2.2512
1.8601	32.92000	52.16000	-0.50000	1.6795	-3.6291	-3.6108	-1.7185
2.7902	32.93000	53.09000	-0.50000	1.4181	-3.4344	-3.4189	-1.4550
3.7202	32.94000	54.02000	-0.50000	1.2265	-3.2332	-3.2199	-1.2612
4.6503	32.95000	54.95000	-0.50000	1.0483	-2.9780	-2.9666	-1.0803
5.5803	32.96000	55.88000	-0.50000	0.88619	-2.6806	-2.6709	-0.91496
6.5104	32.97000	56.81000	-0.50000	0.74029	-2.3503	-2.3422	-0.76552
7.4404	32.98000	57.74000	-0.50000	0.60964	-1.9945	-1.9878	-0.63105
8.3705	32.99000	58.67000	-0.50000	0.49285	-1.6186	-1.6132	-0.51023
9.3005	33.00000	59.60000	-0.50000	0.38840	-1.2268	-1.2226	-0.40157

Structure: G | Sub-structure:

Dist.	Coordinates x	y	z	Displacements x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	33.00000	59.60000	-0.50000	0.38840	-1.2268	-0.38840	1.2268
1.0000	32.00000	59.60000	-0.50000	0.42219	-1.0765	-0.42219	1.0765
2.0000	31.00000	59.60000	-0.50000	0.42846	-0.90950	-0.42846	0.90950
3.0000	30.00000	59.60000	-0.50000	0.40680	-0.73136	-0.40680	0.73136
4.0000	29.00000	59.60000	-0.50000	0.35779	-0.54681	-0.35779	0.54681
5.0000	28.00000	59.60000	-0.50000	0.28274	-0.35979	-0.28274	0.35979

Structure: H | Sub-structure:

Dist.	Coordinates x	y	z	Displacements x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	28.00000	59.60000	-0.50000	0.28274	-0.35979	0.37001	0.26923
0.90062	28.03333	58.70000	-0.50000	0.44702	-0.63919	0.65529	0.42306
1.8012	28.06667	57.80000	-0.50000	0.61872	-0.89765	0.91994	0.58507
2.7019	28.10000	56.90000	-0.50000	0.81465	-1.1492	1.1786	0.77156

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	28.10000	56.90000	-0.50000	0.81465	-1.1492	-0.83053	1.1378
0.90009	27.20000	56.91250	-0.50000	0.74655	-0.94854	-0.75965	0.93808
1.8002	26.30000	56.92500	-0.50000	0.64710	-0.74742	-0.65742	0.73836
2.7003	25.40000	56.93750	-0.50000	0.51893	-0.54878	-0.52650	0.54152
3.6003	24.50000	56.95000	-0.50000	0.36479	-0.35480	-0.36968	0.34970
4.5004	23.60000	56.96250	-0.50000	0.18740	-0.16703	-0.18970	0.16441
5.4005	22.70000	56.97500	-0.50000	0.0	0.0	0.0	0.0
6.3006	21.80000	56.98750	-0.50000	0.0	0.0	0.0	0.0
7.2007	20.90000	57.00000	-0.50000	0.0	0.0	0.0	0.0

Structure: I | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	33.00000	59.50000	-0.50000	0.39904	-1.2698	0.39904	-1.2698
1.9500	34.95000	59.50000	-0.50000	0.27890	-1.6274	0.27890	-1.6274
3.9000	36.90000	59.50000	-0.50000	0.083460	-1.7938	0.083460	-1.7938
5.8500	38.85000	59.50000	-0.50000	-0.019520	-2.3466	-0.019520	-2.3466
7.8000	40.80000	59.50000	-0.50000	-0.026807	-2.2646	-0.026807	-2.2646
9.7500	42.75000	59.50000	-0.50000	-0.0073567	-2.1599	-0.0073567	-2.1599
11.700	44.70000	59.50000	-0.50000	0.0	-2.1375	0.0	-2.1375
13.650	46.65000	59.50000	-0.50000	-0.16592	-1.4625	-0.16592	-1.4625
15.600	48.60000	59.50000	-0.50000	-0.34932	-1.2597	-0.34932	-1.2597
17.550	50.55000	59.50000	-0.50000	-0.43975	-0.99676	-0.43975	-0.99676
19.500	52.50000	59.50000	-0.50000	-0.43327	-0.71610	-0.43327	-0.71610

Structure: K | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	33.00000	52.20000	-0.50000	1.6434	-3.6495	1.6434	-3.6495
0.98889	33.98889	52.20000	-0.50000	1.6133	-5.1676	1.6133	-5.1676
1.9778	34.97778	52.20000	-0.50000	1.5132	-5.7671	1.5132	-5.7671
2.9667	35.96667	52.20000	-0.50000	1.1591	-6.3770	1.1591	-6.3770
3.9556	36.95556	52.20000	-0.50000	0.52848	-6.8848	0.52848	-6.8848
4.9444	37.94444	52.20000	-0.50000	-0.13209	-7.4478	-0.13209	-7.4478
5.9333	38.93333	52.20000	-0.50000	-0.29779	-7.2372	-0.29779	-7.2372
6.9222	39.92222	52.20000	-0.50000	-0.41343	-7.0079	-0.41343	-7.0079
7.9111	40.91111	52.20000	-0.50000	-0.47975	-6.7772	-0.47975	-6.7772
8.9000	41.90000	52.20000	-0.50000	-0.50297	-6.5585	-0.50297	-6.5585

Structure: L | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	37.70000	59.40000	-0.50000	-0.0063522	-2.4370	2.4370	-0.0063522
0.90000	37.70000	58.50000	-0.50000	-0.012224	-2.9893	2.9893	-0.012224
1.8000	37.70000	57.60000	-0.50000	-0.018800	-3.5409	3.5409	-0.018800
2.7000	37.70000	56.70000	-0.50000	-0.026212	-4.0918	4.0918	-0.026212
3.6000	37.70000	55.80000	-0.50000	-0.034631	-4.6418	4.6418	-0.034631
4.5000	37.70000	54.90000	-0.50000	-0.044277	-5.1908	5.1908	-0.044277
5.4000	37.70000	54.00000	-0.50000	-0.055440	-5.8051	5.8051	-0.055440
6.3000	37.70000	53.10000	-0.50000	-0.068507	-6.6511	6.6511	-0.068507
7.2000	37.70000	52.20000	-0.50000	-0.084009	-7.4949	7.4949	-0.084009

Structure: M | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	42.00000	59.50000	-1.50000	-0.018148	-2.2016	2.2016	0.012009
0.91259	41.98750	58.58750	-1.50000	-0.066399	-2.7019	2.7026	-0.029383
1.8252	41.97500	57.67500	-1.50000	-0.11797	-3.1947	3.1960	-0.074201
2.7378	41.96250	56.76250	-1.50000	-0.17309	-3.6787	3.6807	-0.12269
3.6503	41.95000	55.85000	-1.50000	-0.23194	-4.1522	4.1550	-0.17504
4.5629	41.93750	54.93750	-1.50000	-0.29461	-4.6131	4.6167	-0.23139
5.4755	41.92500	54.02500	-1.50000	-0.36101	-5.1173	5.1218	-0.29088
6.3881	41.91250	53.11250	-1.50000	-0.43077	-5.8491	5.8544	-0.35061
7.3007	41.90000	52.20000	-1.50000	-0.50297	-6.5585	6.5648	-0.41309

Structure: N | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	45.50000	53.30000	-4.00000	-0.43954	-3.8880	-3.8880	0.43954
0.87143	45.50000	54.17143	-4.00000	-0.35942	-3.3367	-3.3367	0.35942
1.7429	45.50000	55.04286	-4.00000	-0.29034	-3.0492	-3.0492	0.29034
2.6143	45.50000	55.91429	-4.00000	-0.22268	-2.7542	-2.7542	0.22268
3.4857	45.50000	56.78571	-4.00000	-0.15646	-2.4450	-2.4450	0.15646
4.3571	45.50000	57.65714	-4.00000	-0.091957	-2.1231	-2.1231	0.091957
5.2286	45.50000	58.52857	-4.00000	-0.032879	-1.7966	-1.7966	0.032879
6.1000	45.50000	59.40000	-4.00000	-0.026484	-1.5626	-1.5626	0.026484

Structure: O | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	37.70000	52.20000	-0.68000	-0.084009	-7.4949	7.4949	-0.084009
0.92000	37.70000	51.28000	-0.68000	-0.10315	-8.3544	8.3544	-0.10315
1.8400	37.70000	50.36000	-0.68000	-0.12679	-9.2097	9.2097	-0.12679

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the	Horizontal displacement perpendicular
2.7600	37.70000	49.44000	-0.68000	-0.15765	-10.074	10.074	-0.15765
3.6800	37.70000	48.52000	-0.68000	-0.21764	-11.206	11.206	-0.21764
4.6000	37.70000	47.60000	-0.68000	-0.29936	-12.317	12.317	-0.29936

Structure: P | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	45.50000	53.30000	-1.85000	-0.43954	-3.8880	3.8880	-0.43954
0.95000	45.50000	52.35000	-1.85000	-0.53301	-4.4656	4.4656	-0.53301
1.9000	45.50000	51.40000	-1.85000	-0.63920	-5.0148	5.0148	-0.63920
2.8500	45.50000	50.45000	-1.85000	-0.78337	-5.5339	5.5339	-0.78337
3.8000	45.50000	49.50000	-1.85000	-1.0435	-6.0101	6.0101	-1.0435
4.7500	45.50000	48.55000	-1.85000	-1.7169	-6.2873	6.2873	-1.7169
5.7000	45.50000	47.60000	-1.85000	-8.8453	-2.3971	2.3971	-8.8453

Structure: Q | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	41.90000	52.20000	-0.65000	-0.50297	-6.5585	6.5585	-0.50297
0.92000	41.90000	51.28000	-0.65000	-0.57631	-7.2432	7.2432	-0.57631
1.8400	41.90000	50.36000	-0.65000	-0.64645	-7.8934	7.8934	-0.64645
2.7600	41.90000	49.44000	-0.65000	-0.70706	-8.5019	8.5019	-0.70706
3.6800	41.90000	48.52000	-0.65000	-0.74752	-9.0616	9.0616	-0.74752
4.6000	41.90000	47.60000	-0.65000	-0.75374	-9.5701	9.5701	-0.75374

Structure: R | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	33.00000	50.30000	-0.50000	2.7857	-4.1193	3.9629	3.0040
0.92635	32.95000	49.37500	-0.50000	3.4053	-4.0423	3.8526	3.6185
1.8527	32.90000	48.45000	-0.50000	3.9818	-3.9928	3.7721	4.1915
2.7791	32.85000	47.52500	-0.50000	5.8894	-4.0768	3.7529	6.1009
3.7054	32.80000	46.60000	-0.50000	6.1236	-4.5276	4.1905	6.3590
4.6318	32.75000	45.67500	-0.50000	6.5127	-4.8929	4.5343	6.7673
5.5581	32.70000	44.75000	-0.50000	7.2247	-5.0200	4.6227	7.4851
6.4845	32.65000	43.82500	-0.50000	8.6347	-4.2250	3.7528	8.8502
7.4108	32.60000	42.90000	-0.50000	13.631	-0.81225	0.075306	13.655

Structure: S | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	54.40000	58.50000	-0.50000	-0.47973	-0.57462	0.17186	-0.72856
1.9375	55.56250	56.95000	-0.50000	-0.63517	-0.57869	0.081852	-0.85535
3.8750	56.72500	55.40000	-0.50000	-0.75440	-0.51504	-0.040609	-0.91255
5.8125	57.88750	53.85000	-0.50000	-0.80597	-0.40018	-0.16343	-0.88488
7.7500	59.05000	52.30000	-0.50000	-0.76786	-0.26247	-0.25074	-0.77177
9.6875	60.21250	50.75000	-0.50000	-0.86176	-0.21956	-0.34141	-0.82114
11.625	61.37500	49.20000	-0.50000	-0.59146	-0.15069	-0.23432	-0.56358
13.562	62.53750	47.65000	-0.50000	-0.32116	-0.081825	-0.12724	-0.30602
15.500	63.70000	46.10000	-0.50000	-0.050858	-0.012958	-0.020149	-0.048461
17.438	64.86250	44.55000	-0.50000	0.0	0.0	0.0	0.0
19.375	66.02500	43.00000	-0.50000	0.0	0.0	0.0	0.0
21.313	67.18750	41.45000	-0.50000	0.0	0.0	0.0	0.0
23.250	68.35000	39.90000	-0.50000	0.0	0.0	0.0	0.0
25.188	69.51250	38.35000	-0.50000	0.0	0.0	0.0	0.0
27.125	70.67500	36.80000	-0.50000	0.0	0.0	0.0	0.0
29.063	71.83750	35.25000	-0.50000	0.0	0.0	0.0	0.0
31.000	73.00000	33.70000	-0.50000	0.0	0.0	0.0	0.0

Structure: T | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	45.50000	53.30000	-0.50000	-0.43954	-3.8880	2.7774	-2.7560
1.9859	46.73158	51.74211	-0.50000	-1.6011	-4.0329	2.1708	-3.7571
3.9718	47.96316	50.18421	-0.50000	-3.2511	-3.0740	0.39526	-4.4568
5.9577	49.19474	48.62632	-0.50000	-4.5965	-1.2593	-1.8627	-4.3868
7.9436	50.42632	47.06842	-0.50000	-5.3530	-1.3730	-2.2427	-5.0507
9.9295	51.65789	45.51053	-0.50000	-4.7279	-1.1991	-1.9914	-4.4525
11.915	52.88947	43.95263	-0.50000	-4.1226	-1.0457	-1.7364	-3.8826
13.901	54.12105	42.39474	-0.50000	-3.7578	-0.95702	-1.5797	-3.5414
15.887	55.35263	40.83684	-0.50000	-3.4625	-0.88218	-1.4553	-3.2634
17.873	56.58421	39.27895	-0.50000	-3.1686	-0.80730	-1.3317	-2.9863
19.859	57.81579	37.72105	-0.50000	-3.4125	-0.83957	-1.4577	-3.1977
21.845	59.04737	36.16316	-0.50000	-2.9574	-0.57131	-1.3859	-2.6743
23.831	60.27895	34.60526	-0.50000	-2.4584	-0.47491	-1.1520	-2.2230
25.817	61.51053	33.04737	-0.50000	-1.9629	-0.37920	-0.91984	-1.7750
27.803	62.74211	31.48947	-0.50000	-1.5685	-0.30300	-0.73502	-1.4184
29.789	63.97368	29.93158	-0.50000	-1.2321	-0.23801	-0.57736	-1.1141
31.774	65.20526	28.37368	-0.50000	-0.46406	-0.054490	-0.24504	-0.39783
33.760	66.43684	26.81579	-0.50000	-0.23956	-0.0031644	-0.14609	-0.18989
35.746	67.66842	25.25789	-0.50000	0.0	0.0	0.0	0.0
37.732	68.90000	23.70000	-0.50000	0.0	0.0	0.0	0.0

Structure: U | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	63.00000	47.00000	-0.50000	-0.21661	-0.055188	0.20657	-0.085397
0.98600	62.21000	46.41000	-0.50000	-0.54774	-0.13955	0.52236	-0.21594
1.9720	61.42000	45.82000	-0.50000	-0.87886	-0.22392	0.83814	-0.34648
2.9580	60.63000	45.23000	-0.50000	-1.2100	-0.30828	1.1539	-0.47703
3.9440	59.84000	44.64000	-0.50000	-1.5411	-0.39265	1.4697	-0.60757
4.9300	59.05000	44.05000	-0.50000	-1.8722	-0.47701	1.7855	-0.73812

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
5.9160	58.26000	43.46000	-0.50000	-2.2034	-0.56137	2.1013	-0.86866
6.9020	57.47000	42.87000	-0.50000	-2.5345	-0.64574	2.4171	-0.99920
7.8880	56.68000	42.28000	-0.50000	-2.8656	-0.73010	2.7329	-1.1297
8.8740	55.89000	41.69000	-0.50000	-3.1967	-0.81447	3.0486	-1.2603
9.8600	55.10000	41.10000	-0.50000	-3.5279	-0.89883	3.3644	-1.3908

Structure: V | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	55.10000	41.10000	-0.50000	-3.5279	-0.89883	3.3539	-1.4161
0.91001	54.37500	40.55000	-0.50000	-3.8325	-0.97645	3.6435	-1.5384
1.8200	53.65000	40.00000	-0.50000	-4.2615	-1.0857	4.0513	-1.7106
2.7300	52.92500	39.45000	-0.50000	-4.8369	-1.2324	4.5984	-1.9416
3.6401	52.20000	38.90000	-0.50000	-5.4124	-1.3790	5.1454	-2.1726

Structure: W | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	52.20000	38.90000	-1.70000	-5.4124	-1.3790	-2.2344	-5.1189
0.57009	52.55000	38.45000	-1.70000	-5.2558	-1.3391	-2.1698	-4.9708
1.1402	52.90000	38.00000	-1.70000	-5.0993	-1.2992	-2.1051	-4.8228

Structure: X | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	66.40000	42.50000	-0.50000	0.0	0.0	0.0	0.0
0.97201	65.62000	41.92000	-0.50000	0.0	0.0	0.0	0.0
1.9440	64.84000	41.34000	-0.50000	-0.076477	-0.019485	0.072997	-0.029998
2.9160	64.06000	40.76000	-0.50000	-0.40318	-0.10272	0.38484	-0.15815
3.8880	63.28000	40.18000	-0.50000	-0.72866	-0.18462	0.69488	-0.28665
4.8600	62.50000	39.60000	-0.50000	-1.0578	-0.26025	1.0041	-0.42235
5.8320	61.72000	39.02000	-0.50000	-1.3841	-0.34052	1.3138	-0.55262
6.8041	60.94000	38.44000	-0.50000	-1.6923	-0.41026	1.6028	-0.68060
7.7761	60.16000	37.86000	-0.50000	-2.1506	-0.44987	1.9942	-0.92227
8.7481	59.38000	37.28000	-0.50000	-2.6627	-0.51439	2.4437	-1.1761
9.7201	58.60000	36.70000	-0.50000	-3.1431	-0.60718	2.8845	-1.3882

Structure: Y | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	58.60000	36.70000	-1.40000	-3.1431	-0.60718	2.8710	-1.4159
0.91001	57.87500	36.15000	-1.40000	-3.5965	-0.69478	3.2852	-1.6202
1.8200	57.15000	35.60000	-1.40000	-4.0576	-0.78384	3.7064	-1.8278
2.7300	56.42500	35.05000	-1.40000	-4.5281	-0.87474	4.1362	-2.0398
3.6401	55.70000	34.50000	-1.40000	-5.0099	-0.96783	4.5763	-2.2569

Structure: Z | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	69.70000	38.10000	-0.50000	0.0	0.0	0.0	0.0
0.95802	68.93000	37.53000	-0.50000	0.0	0.0	0.0	0.0
1.9160	68.16000	36.96000	-0.50000	0.0	0.0	0.0	0.0
2.8741	67.39000	36.39000	-0.50000	0.0	0.0	0.0	0.0
3.8321	66.62000	35.82000	-0.50000	0.0	0.0	0.0	0.0
4.7901	65.85000	35.25000	-0.50000	-0.18234	-0.035224	0.16751	-0.080175
5.7481	65.08000	34.68000	-0.50000	-0.50051	-0.096689	0.45981	-0.22008
6.7061	64.31000	34.11000	-0.50000	-0.81867	-0.15815	0.75210	-0.35998
7.6642	63.54000	33.54000	-0.50000	-1.1368	-0.21962	1.0444	-0.49988
8.6222	62.77000	32.97000	-0.50000	-1.4550	-0.28108	1.3367	-0.63978
9.5802	62.00000	32.40000	-0.50000	-1.7732	-0.34255	1.6290	-0.77968

Structure: AA | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	62.00000	32.40000	-1.40000	-1.7732	-0.34255	1.6491	-0.73623
0.91549	61.25000	31.87500	-1.40000	-2.2219	-0.42923	2.0664	-0.92254
1.8310	60.50000	31.35000	-1.40000	-2.6764	-0.51704	2.4891	-1.1113
2.7465	59.75000	30.82500	-1.40000	-3.1349	-0.60561	2.9155	-1.3016
3.6620	59.00000	30.30000	-1.40000	-3.5993	-0.69532	3.3474	-1.4944

Structure: AB | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	73.00000	33.70000	-0.50000	0.0	0.0	0.0	0.0
0.94626	72.23000	33.15000	-0.50000	0.0	0.0	0.0	0.0
1.8925	71.46000	32.60000	-0.50000	0.0	0.0	0.0	0.0
2.8388	70.69000	32.05000	-0.50000	0.0	0.0	0.0	0.0
3.7850	69.92000	31.50000	-0.50000	0.0	0.0	0.0	0.0
4.7313	69.15000	30.95000	-0.50000	0.0	0.0	0.0	0.0
5.6775	68.38000	30.40000	-0.50000	0.0	0.0	0.0	0.0
6.6238	67.61000	29.85000	-0.50000	0.0	0.0	0.0	0.0
7.5700	66.84000	29.30000	-0.50000	-0.12564	-0.020264	0.11401	-0.056536
8.5163	66.07000	28.75000	-0.50000	-0.28912	-0.038923	0.25789	-0.13637
9.4626	65.30000	28.20000	-0.50000	-0.44864	-0.047225	0.39252	-0.22234

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]

Structure: AC | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	65.30000	28.20000	-0.50000	-0.44864	-0.047225	0.38995	-0.22681
0.84673	64.61667	27.70000	-0.50000	-0.58604	-0.044407	0.49917	-0.31022
1.6935	63.93333	27.20000	-0.50000	-0.71813	-0.031148	0.59795	-0.39893
2.5402	63.25000	26.70000	-0.50000	-0.84357	-0.0064149	0.68457	-0.49296
3.3869	62.56667	26.20000	-0.50000	-1.0114	0.032452	0.79708	-0.62344
4.2336	61.88333	25.70000	-0.50000	-1.2335	0.094211	0.93981	-0.80440
5.0804	61.20000	25.20000	-0.50000	-1.4380	0.18137	1.0534	-0.99553

Structure: AD | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	61.20000	25.20000	-1.46000	-1.4380	0.18137	1.4494	0.0029653
0.98298	60.22500	25.32500	-1.46000	-1.7951	0.22605	1.8093	0.0040583
1.9660	59.25000	25.45000	-1.46000	-2.1609	0.27159	2.1779	0.0054057
2.9489	58.27500	25.57500	-1.46000	-2.5386	0.31830	2.5585	0.0071080
3.9319	57.30000	25.70000	-1.46000	-2.9317	0.36646	2.9545	0.0093202
4.9149	56.32500	25.82500	-1.46000	-3.3435	0.41626	3.3693	0.012294
5.8979	55.35000	25.95000	-1.46000	-3.7775	0.46769	3.8063	0.016469
6.8809	54.37500	26.07500	-1.46000	-4.2372	0.52035	4.2689	0.022687
7.8638	53.40000	26.20000	-1.46000	-4.7268	0.57305	4.7613	0.032679

Structure: AE | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	61.20000	25.20000	-0.50000	-1.4380	0.18137	-0.094046	-1.4463
0.82651	61.15000	24.37500	-0.50000	-1.3668	0.27522	-0.19203	-1.3810
1.6530	61.10000	23.55000	-0.50000	-1.2713	0.35250	-0.27494	-1.2903
2.4795	61.05000	22.72500	-0.50000	-1.1559	0.40906	-0.33838	-1.1786
3.3061	61.00000	21.90000	-0.50000	-1.0255	0.44221	-0.37936	-1.0504

Structure: AF | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	50.30000	26.50000	-1.46000	-5.6641	2.8224	-2.2814	-5.9028
0.80351	50.22500	25.70000	-1.46000	-0.95231	6.1375	-6.0219	-1.5210
1.6070	50.15000	24.90000	-1.46000	-0.27474	5.8229	-5.7718	-0.81705
2.4105	50.07500	24.10000	-1.46000	-0.044963	5.4068	-5.3790	-0.54944
3.2140	50.00000	23.30000	-1.46000	0.062335	4.9866	-4.9707	-0.40339

Structure: AG | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	50.00000	23.30000	-0.50000	0.062335	4.9866	-0.57817	4.9534
1.9046	51.88889	23.05556	-0.50000	-1.9060	3.7728	-2.3745	3.4969
3.8093	53.77778	22.81111	-0.50000	-2.3840	2.4560	-2.6794	2.1297
5.7139	55.66667	22.56667	-0.50000	-2.2879	1.6577	-2.4817	1.3503
7.6186	57.55556	22.32222	-0.50000	-1.9329	1.1090	-2.0592	0.85179
9.5232	59.44444	22.07778	-0.50000	-1.4572	0.70519	-1.5356	0.51235
11.428	61.33333	21.83333	-0.50000	-0.92414	0.39214	-0.96682	0.27029
13.332	63.22222	21.58889	-0.50000	-0.56337	0.21514	-0.58633	0.14106
15.237	65.11111	21.34444	-0.50000	-0.27396	0.095917	-0.28401	0.059963
17.142	67.00000	21.10000	-0.50000	0.0	0.0	0.0	0.0

Structure: AH | Sub-structure:

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	59.00000	20.70000	-0.50000	-1.2213	0.80960	1.3032	-0.66978
0.90554	58.10000	20.80000	-0.50000	-1.3947	1.0111	1.4978	-0.85094
1.8111	57.20000	20.90000	-0.50000	-1.5381	1.2348	1.6650	-1.0574
2.7166	56.30000	21.00000	-0.50000	-1.6415	1.4827	1.7952	-1.2923
3.6222	55.40000	21.10000	-0.50000	-1.7260	1.7911	1.9132	-1.5896
4.5277	54.50000	21.20000	-0.50000	-1.7623	2.1628	1.9903	-1.9550
5.4332	53.60000	21.30000	-0.50000	-1.7049	2.5817	1.9796	-2.3776
6.3388	52.70000	21.40000	-0.50000	-1.5172	3.0344	1.8430	-2.8483

Structure: AI | Sub-structure: Sub #

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	52.70000	21.40000	-0.50000	-1.5172	3.0344	-2.7837	-1.9392
0.97015	52.56000	20.44000	-0.50000	-1.1492	2.8778	-2.6818	-1.5525
1.9403	52.42000	19.48000	-0.50000	-0.86356	2.6502	-2.4979	-1.2370
2.9105	52.28000	18.52000	-0.50000	-0.64269	2.3821	-2.2644	-0.97971
3.8806	52.14000	17.56000	-0.50000	-0.47174	2.0905	-2.0005	-0.76848
4.8508	52.00000	16.60000	-0.50000	-0.33914	1.7850	-1.7173	-0.59318

Structure: AJ | Sub-structure: Sub #

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
0.0	52.00000	16.60000	-0.50000	-0.33914	1.7850	0.55553
0.99641	51.01111	16.72222	-0.50000	-0.17932	1.9441	0.41643
1.9928	50.02222	16.84444	-0.50000	0.016393	2.0561	0.23594
2.9892	49.03333	16.96667	-0.50000	0.23374	2.1110	0.026961
3.9857	48.04444	17.08889	-0.50000	0.46837	3.4867	-0.037140
4.9821	47.05556	17.21111	-0.50000	0.46757	3.4808	-0.037077
5.9785	46.06667	17.33333	-0.50000	0.45143	3.4992	-0.018797
6.9749	45.07778	17.45556	-0.50000	0.41344	3.5613	0.026526
7.9713	44.08889	17.57778	-0.50000	0.37953	3.6326	0.068919
8.9677	43.10000	17.70000	-0.50000	0.35181	3.7127	0.10626

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	43.10000	17.70000	-0.50000	0.35181	3.7127	3.7252
0.98995	43.24000	18.68000	-0.50000	0.37498	4.3600	4.3692
1.9799	43.38000	19.66000	-0.50000	0.39968	5.0022	5.0084
2.9698	43.52000	20.64000	-0.50000	0.42833	5.6404	5.6443
3.9598	43.66000	21.62000	-0.50000	0.46421	6.2758	6.2784
4.9497	43.80000	22.60000	-0.50000	0.51166	6.9099	6.9128

Structure: AK | Sub-structure: Sub #

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	43.80000	22.60000	-0.50000	0.51166	6.9099	0.36748
0.94763	42.86000	22.72000	-0.50000	0.46600	7.0414	0.42943
1.8953	41.92000	22.84000	-0.50000	0.43271	7.1985	0.48234
2.8429	40.98000	22.96000	-0.50000	0.41980	7.3821	0.51839
3.7905	40.04000	23.08000	-0.50000	0.43705	7.5906	0.52768
4.7381	39.10000	23.20000	-0.50000	0.49513	7.8186	0.49894

Structure: AL | Sub-structure: Sub #

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	39.10000	23.20000	-0.50000	0.49513	7.8186	-7.8338
0.90247	39.03333	22.30000	-0.50000	0.48226	7.1464	-7.1625
1.8049	38.96667	21.40000	-0.50000	0.46387	6.4745	-6.4910
2.7074	38.90000	20.50000	-0.50000	0.44038	5.8046	-5.8213

Structure: AM | Sub-structure: Sub #

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	38.90000	20.50000	-0.50000	0.44038	5.8046	0.43416
0.83442	38.07500	20.62500	-0.50000	0.50216	5.9454	0.39416
1.6688	37.25000	20.75000	-0.50000	0.58497	6.0798	0.33242
2.5032	36.42500	20.87500	-0.50000	0.68791	6.2020	0.24895
3.3377	35.60000	21.00000	-0.50000	0.70488	5.1514	0.074780

Structure: AN | Sub-structure: Sub #

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	35.60000	21.00000	-0.50000	0.70488	5.1514	5.1987
0.83931	35.70000	21.83333	-0.50000	0.79949	5.7524	5.8066
1.6786	35.80000	22.66667	-0.50000	0.90292	6.3651	6.4273
2.5179	35.90000	23.50000	-0.50000	1.0192	6.9901	7.0617

Structure: AO | Sub-structure: Sub #

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	35.90000	23.50000	-0.50000	1.0192	6.9901	0.091724
0.89107	35.02000	23.64000	-0.50000	1.9773	7.8159	-0.72475
1.7821	34.14000	23.78000	-0.50000	2.5527	7.2541	-1.3813
2.6732	33.26000	23.92000	-0.50000	2.9032	6.6463	-1.8229
3.5643	32.38000	24.06000	-0.50000	3.0540	6.0677	-2.0627
4.4553	31.50000	24.20000	-0.50000	3.0230	4.4851	-2.2808

Structure: AP | Sub-structure: Sub #

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	31.50000	24.20000	-0.50000	3.0230	4.4851	-4.8675
0.98995	31.36000	23.22000	-0.50000	2.5478	4.2473	-4.5650
1.9799	31.22000	22.24000	-0.50000	2.1543	3.9437	-4.2088
2.9698	31.08000	21.26000	-0.50000	1.7944	3.5608	-3.7788
3.9598	30.94000	20.28000	-0.50000	1.4675	3.1204	-3.2966
4.9497	30.80000	19.30000	-0.50000	1.1701	2.6379	-2.7769

Structure: AQ | Sub-structure: Sub #

Dist.	Coordinates			Displacements		
	x	y	z	x	y	Horizontal displacement along the Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]
0.0	35.60000	12.40000	-0.50000	0.079679	0.59317	0.59849

Horizontal displacement perpendicular to Line
-1.7299
-1.9074
-2.0426
-2.1237
-3.5179
-3.5119
-3.5282
-3.5851
-3.6517
-3.7278

Horizontal displacement perpendicular to Line
[mm]
0.17679
0.24538
0.31175
0.37365
0.42799
0.47070

Horizontal displacement perpendicular to Line
[mm]
-6.9191
-7.0438
-7.1954
-7.3758
-7.5849
-7.8184

Horizontal displacement perpendicular to Line
[mm]
-0.083792
-0.046971
-0.015682
0.010377

Horizontal displacement perpendicular to Line
[mm]
-5.8051
-5.9536
-6.0988
-6.2351
-5.1989

Horizontal displacement perpendicular to Line
[mm]
-0.086096
-0.10843
-0.13812
-0.17909

Horizontal displacement perpendicular to Line
[mm]
-7.0634
-8.0295
-7.5651
-7.0198
-6.4722
-4.9043

Horizontal displacement perpendicular to Line
[mm]
2.3584
1.9215
1.5749
1.2728
1.0115
0.78527

Horizontal displacement perpendicular to Line
[mm]
-0.0019856

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.94130	35.72222	13.33333	-0.50000	0.12667	0.94301	0.95147	-0.0031566
1.8826	35.84444	14.26667	-0.50000	0.17367	1.2929	1.3045	-0.0043277
2.8239	35.96667	15.20000	-0.50000	0.22939	1.8187	1.8331	0.0086967
3.7652	36.08889	16.13333	-0.50000	0.29724	2.4703	2.4879	0.026027
4.7065	36.21111	17.06667	-0.50000	0.37267	3.1946	3.2159	0.045284
5.6478	36.33333	18.00000	-0.50000	0.44580	3.9210	3.9457	0.067099
6.5891	36.45556	18.93333	-0.50000	0.51645	4.6520	4.6797	0.091958
7.5304	36.57778	19.86667	-0.50000	0.58428	5.3897	5.4199	0.12048
8.4717	36.70000	20.80000	-0.50000	0.64875	6.1361	6.1683	0.15347

Structure: AS | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	44.70000	9.30000	-0.50000	0.0	0.0	0.0	0.0
0.90683	44.81111	10.20000	-0.50000	0.032045	0.23856	0.24069	-0.0025739
1.8137	44.92222	11.10000	-0.50000	0.077316	0.57557	0.58071	-0.0062102
2.7205	45.03333	12.00000	-0.50000	0.12259	0.91259	0.92073	-0.0098465
3.6273	45.14444	12.90000	-0.50000	0.16786	1.2496	1.2608	-0.013483
4.5342	45.25556	13.80000	-0.50000	0.21313	1.5866	1.6008	-0.017119
5.4410	45.36667	14.70000	-0.50000	0.26631	1.9825	2.0002	-0.021391
6.3478	45.47778	15.60000	-0.50000	0.33298	2.4788	2.5010	-0.026746
7.2547	45.58889	16.50000	-0.50000	0.40012	2.9787	3.0053	-0.032139
8.1615	45.70000	17.40000	-0.50000	0.43747	3.5348	3.5618	-0.0010608

Structure: AT | Sub-structure: Sub #

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	54.50000	10.00000	-0.50000	-0.019508	0.073597	0.070799	0.028010
1.8461	54.71667	11.83333	-0.50000	-0.11182	0.35767	0.34208	0.15303
3.6922	54.93333	13.66667	-0.50000	-0.22991	0.61520	0.58396	0.30052
5.5383	55.15000	15.50000	-0.50000	-0.42065	0.92460	0.86884	0.52626
7.3844	55.36667	17.33333	-0.50000	-0.75030	1.3201	1.2230	0.90005
9.2305	55.58333	19.16667	-0.50000	-1.1694	1.5852	1.4370	1.3473
11.077	55.80000	21.00000	-0.50000	-1.6713	1.6419	1.4344	1.8524

Structure: AU | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	33.10000	38.60000	-2.00000	14.687	-0.87360	-14.713	0.046092
0.88891	32.21250	38.65000	-2.00000	13.430	-0.80121	-13.454	0.044528
1.7778	31.32500	38.70000	-2.00000	12.173	-0.72882	-12.194	0.042964
2.6667	30.43750	38.75000	-2.00000	10.959	-0.65852	-10.979	0.041030
3.5556	29.55000	38.80000	-2.00000	9.9982	-0.60030	-10.016	0.036964
4.4445	28.66250	38.85000	-2.00000	9.0370	-0.54208	-9.0532	0.032898
5.3334	27.77500	38.90000	-2.00000	8.0759	-0.48386	-8.0903	0.028832
6.2224	26.88750	38.95000	-2.00000	7.1148	-0.42564	-7.1274	0.024767
7.1113	26.00000	39.00000	-2.00000	6.3270	-0.37909	-6.3383	0.022600

Structure: AV | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	26.00000	39.00000	-2.00000	6.3270	-0.37909	-0.033473	6.3383
0.92195	25.94000	38.08000	-2.00000	6.3218	-0.37885	-0.033368	6.3330
1.8439	25.88000	37.16000	-2.00000	6.3165	-0.37861	-0.033264	6.3278
2.7659	25.82000	36.24000	-2.00000	6.3113	-0.37838	-0.033159	6.3225
3.6878	25.76000	35.32000	-2.00000	6.3060	-0.37814	-0.033054	6.3173
4.6098	25.70000	34.40000	-2.00000	6.3008	-0.37790	-0.032949	6.3120
5.5317	25.64000	33.48000	-2.00000	6.2955	-0.37766	-0.032844	6.3068
6.4537	25.58000	32.56000	-2.00000	4.9923	-0.13534	-0.18984	4.9905
7.3756	25.52000	31.64000	-2.00000	4.8334	0.18351	-0.49767	4.8113
8.2976	25.46000	30.72000	-2.00000	4.6233	0.44561	-0.74555	4.5845
9.2195	25.40000	29.80000	-2.00000	4.3843	0.64128	-0.92525	4.3333

Structure: AW | Sub-structure:

Dist.	Coordinates			Displacements			
	x	y	z	x	y	Horizontal displacement along the Line	Horizontal displacement perpendicular to Line
[m]	[m]	[m]	[m]	[mm]	[mm]	[mm]	[mm]
0.0	25.40000	29.80000	-2.00000	4.3843	0.64128	4.3363	0.91113
1.8869	27.28333	29.68333	-2.00000	5.3530	1.0496	5.2779	1.3786
3.7739	29.16667	29.56667	-2.00000	6.2178	1.8603	6.0909	2.2411
5.6608	31.05000	29.45000	-2.00000	6.7856	3.4879	6.5569	3.9008
7.5478	32.93333	29.33333	-2.00000	6.9081	6.2525	6.5083	6.6676
9.4347	34.81667	29.21667	-2.00000	8.2526	6.2674	7.8493	6.7657
11.322	36.70000	29.10000	-2.00000	8.9332	4.0276	8.6671	4.5722

Specific Building Damage Results - Vertical Displacements

Structure: A | Sub-structure:

Dist.	Coordinates			Displacements
	x	y	z	z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	22.50000	48.10000	-0.50000	0.41210
0.85000	23.35000	48.10000	-0.50000	0.56935
1.7000	24.20000	48.10000	-0.50000	0.77482
2.5500	25.05000	48.10000	-0.50000	1.0325
3.4000	25.90000	48.10000	-0.50000	1.3410

Structure: B | Sub-structure:

Dist.	Coordinates			Displacements
	x	y	z	z
[m]	[m]	[m]	[m]	[mm]

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	25.90000	48.10000	-0.50000	1.3410
0.77500	25.90000	47.32500	-0.50000	1.4657
1.5500	25.90000	46.55000	-0.50000	1.5888
2.3250	25.90000	45.77500	-0.50000	1.7067
3.1000	25.90000	45.00000	-0.50000	1.8157

Structure: C | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	25.90000	45.00000	-0.50000	1.8157
0.92022	26.82000	44.98000	-0.50000	2.2813
1.8404	27.74000	44.96000	-0.50000	2.8020
2.7607	28.66000	44.94000	-0.50000	3.3397
3.6809	29.58000	44.92000	-0.50000	3.8877
4.6011	30.50000	44.90000	-0.50000	4.4256

Structure: D | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	30.50000	44.90000	-0.50000	4.4256
0.90015	30.48333	45.80000	-0.50000	4.0992
1.8003	30.46667	46.70000	-0.50000	3.9274
2.7005	30.45000	47.60000	-0.50000	3.7775
3.6006	30.43333	48.50000	-0.50000	2.8681
4.5008	30.41667	49.40000	-0.50000	2.5902
5.4009	30.40000	50.30000	-0.50000	2.2848

Structure: E | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	30.40000	50.30000	-0.50000	2.2848
0.83333	31.23333	50.30000	-0.50000	2.5668
1.6667	32.06667	50.30000	-0.50000	2.8341
2.5000	32.90000	50.30000	-0.50000	3.0594

Structure: F | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	32.90000	50.30000	-0.50000	3.0594
0.93005	32.91000	51.23000	-0.50000	2.6028
1.8601	32.92000	52.16000	-0.50000	2.1494
2.7902	32.93000	53.09000	-0.50000	1.7951
3.7202	32.94000	54.02000	-0.50000	1.4824
4.6503	32.95000	54.95000	-0.50000	1.1859
5.5803	32.96000	55.88000	-0.50000	0.91948
6.5104	32.97000	56.81000	-0.50000	0.69208
7.4404	32.98000	57.74000	-0.50000	0.50681
8.3705	32.99000	58.67000	-0.50000	0.36048
9.3005	33.00000	59.60000	-0.50000	0.24315

Structure: G | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	33.00000	59.60000	-0.50000	0.24315
1.0000	32.00000	59.60000	-0.50000	0.20215
2.0000	31.00000	59.60000	-0.50000	0.16254
3.0000	30.00000	59.60000	-0.50000	0.12613
4.0000	29.00000	59.60000	-0.50000	0.093314
5.0000	28.00000	59.60000	-0.50000	0.062742

Structure: H | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	28.00000	59.60000	-0.50000	0.062742
0.90062	28.03333	58.70000	-0.50000	0.11228
1.8012	28.06667	57.80000	-0.50000	0.15947
2.7019	28.10000	56.90000	-0.50000	0.22261

Structure: I | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	28.10000	56.90000	-0.50000	0.22261
0.90009	27.20000	56.91250	-0.50000	0.17339
1.8002	26.30000	56.92500	-0.50000	0.13460
2.7003	25.40000	56.93750	-0.50000	0.10436
3.6003	24.50000	56.95000	-0.50000	0.077895
4.5004	23.60000	56.96250	-0.50000	0.047151
5.4005	22.70000	56.97500	-0.50000	0.0
6.3006	21.80000	56.98750	-0.50000	0.0
7.2007	20.90000	57.00000	-0.50000	0.0

Structure: J | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	33.00000	59.50000	-0.50000	0.25487
1.9500	34.95000	59.50000	-0.50000	0.35139
3.9000	36.90000	59.50000	-0.50000	0.40527
5.8500	38.85000	59.50000	-0.50000	0.55572

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
7.8000	40.80000	59.50000	-0.50000	0.54495
9.7500	42.75000	59.50000	-0.50000	0.52756
11.700	44.70000	59.50000	-0.50000	0.52099
13.650	46.65000	59.50000	-0.50000	0.35204
15.600	48.60000	59.50000	-0.50000	0.28467
17.550	50.55000	59.50000	-0.50000	0.20078
19.500	52.50000	59.50000	-0.50000	0.12519

Structure: K | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	33.00000	52.20000	-0.50000	2.1435
0.98889	33.98889	52.20000	-0.50000	2.7704
1.9778	34.97778	52.20000	-0.50000	2.9924
2.9667	35.96667	52.20000	-0.50000	3.2113
3.9556	36.95556	52.20000	-0.50000	3.4085
4.9444	37.94444	52.20000	-0.50000	3.9783
5.9333	38.93333	52.20000	-0.50000	3.8850
6.9222	39.92222	52.20000	-0.50000	3.7806
7.9111	40.91111	52.20000	-0.50000	3.6735
8.9000	41.90000	52.20000	-0.50000	3.5709

Structure: L | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	37.70000	59.40000	-0.50000	0.58450
0.90000	37.70000	58.50000	-0.50000	0.83698
1.8000	37.70000	57.60000	-0.50000	1.1468
2.7000	37.70000	56.70000	-0.50000	1.5177
3.6000	37.70000	55.80000	-0.50000	1.9455
4.5000	37.70000	54.90000	-0.50000	2.4177
5.4000	37.70000	54.00000	-0.50000	2.9254
6.3000	37.70000	53.10000	-0.50000	3.4618
7.2000	37.70000	52.20000	-0.50000	3.9987

Structure: M | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	42.00000	59.50000	-1.50000	0.53526
0.91259	41.98750	58.58750	-1.50000	0.78440
1.8252	41.97500	57.67500	-1.50000	1.0812
2.7378	41.96250	56.76250	-1.50000	1.4283
3.6503	41.95000	55.85000	-1.50000	1.8200
4.5629	41.93750	54.93750	-1.50000	2.2420
5.4755	41.92500	54.02500	-1.50000	2.6826
6.3881	41.91250	53.11250	-1.50000	3.1361
7.3007	41.90000	52.20000	-1.50000	3.5709

Structure: N | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	45.50000	53.30000	-4.00000	2.0749
0.87143	45.50000	54.17143	-4.00000	1.7832
1.7429	45.50000	55.04286	-4.00000	1.5154
2.6143	45.50000	55.91429	-4.00000	1.2497
3.4857	45.50000	56.78571	-4.00000	0.99634
4.3571	45.50000	57.65714	-4.00000	0.76244
5.2286	45.50000	58.52857	-4.00000	0.54987
6.1000	45.50000	59.40000	-4.00000	0.39024

Structure: O | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	37.70000	52.20000	-0.68000	3.9987
0.92000	37.70000	51.28000	-0.68000	4.5526
1.8400	37.70000	50.36000	-0.68000	5.0834
2.7600	37.70000	49.44000	-0.68000	5.5319
3.6800	37.70000	48.52000	-0.68000	5.8388
4.6000	37.70000	47.60000	-0.68000	5.8644

Structure: P | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	45.50000	53.30000	-1.85000	2.0749
0.95000	45.50000	52.35000	-1.85000	2.3786
1.9000	45.50000	51.40000	-1.85000	2.6946
2.8500	45.50000	50.45000	-1.85000	3.0196
3.8000	45.50000	49.50000	-1.85000	3.3190
4.7500	45.50000	48.55000	-1.85000	3.5004
5.7000	45.50000	47.60000	-1.85000	4.1963

Structure: Q | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	41.90000	52.20000	-0.65000	3.5709
0.92000	41.90000	51.28000	-0.65000	3.9945
1.8400	41.90000	50.36000	-0.65000	4.3773
2.7600	41.90000	49.44000	-0.65000	4.6605
3.6800	41.90000	48.52000	-0.65000	4.7536
4.6000	41.90000	47.60000	-0.65000	4.5373

Structure: R | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	33.00000	50.30000	-0.50000	3.0831
0.92635	32.95000	49.37500	-0.50000	3.5267
1.8527	32.90000	48.45000	-0.50000	3.9581
2.7791	32.85000	47.52500	-0.50000	5.2546
3.7054	32.80000	46.60000	-0.50000	5.5003
4.6318	32.75000	45.67500	-0.50000	5.7456
5.5581	32.70000	44.75000	-0.50000	5.9451
6.4845	32.65000	43.82500	-0.50000	5.9910
7.4108	32.60000	42.90000	-0.50000	7.2185

Structure: S | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	54.40000	58.50000	-0.50000	0.10607
1.9375	55.56250	56.95000	-0.50000	0.12919
3.8750	56.72500	55.40000	-0.50000	0.13874
5.8125	57.88750	53.85000	-0.50000	0.13086
7.7500	59.05000	52.30000	-0.50000	0.10952
9.6875	60.21250	50.75000	-0.50000	0.11516
11.625	61.37500	49.20000	-0.50000	0.084683
13.562	62.53750	47.65000	-0.50000	0.055634
15.500	63.70000	46.10000	-0.50000	0.014224
17.438	64.86250	44.55000	-0.50000	0.0
19.375	66.02500	43.00000	-0.50000	0.0
21.313	67.18750	41.45000	-0.50000	0.0
23.250	68.35000	39.90000	-0.50000	0.0
25.188	69.51250	38.35000	-0.50000	0.0
27.125	70.67500	36.80000	-0.50000	0.0
29.063	71.83750	35.25000	-0.50000	0.0
31.000	73.00000	33.70000	-0.50000	0.0

Structure: T | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	45.50000	53.30000	-0.50000	2.0749
1.9859	46.73158	51.74211	-0.50000	2.2614
3.9718	47.96316	50.18421	-0.50000	2.3241
5.9577	49.19474	48.62632	-0.50000	2.5541
7.9436	50.42632	47.06842	-0.50000	3.1159
9.9295	51.65789	45.51053	-0.50000	2.7934
11.915	52.88947	43.95263	-0.50000	2.4523
13.901	54.12105	42.39474	-0.50000	2.1176
15.887	55.35263	40.83684	-0.50000	1.7864
17.873	56.58421	39.27895	-0.50000	1.4638
19.859	57.81579	37.72105	-0.50000	2.6131
21.845	59.04737	36.16316	-0.50000	2.1430
23.831	60.27895	34.60526	-0.50000	1.7087
25.817	61.51053	33.04737	-0.50000	1.3290
27.803	62.74211	31.48947	-0.50000	1.0032
29.789	63.97368	29.93158	-0.50000	0.72546
31.774	65.20526	28.37368	-0.50000	0.41869
33.760	66.43684	26.81579	-0.50000	0.16831
35.746	67.66842	25.25789	-0.50000	0.0
37.732	68.90000	23.70000	-0.50000	0.0

Structure: U | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	63.00000	47.00000	-0.50000	0.041913
0.98600	62.21000	46.41000	-0.50000	0.080222
1.9720	61.42000	45.82000	-0.50000	0.11742
2.9580	60.63000	45.23000	-0.50000	0.17487
3.9440	59.84000	44.64000	-0.50000	0.26881
4.9300	59.05000	44.05000	-0.50000	0.41031
5.9160	58.26000	43.46000	-0.50000	0.60534
6.9020	57.47000	42.87000	-0.50000	0.85470
7.8880	56.68000	42.28000	-0.50000	1.1541
8.8740	55.89000	41.69000	-0.50000	1.4940
9.8600	55.10000	41.10000	-0.50000	1.8598

Structure: V | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	55.10000	41.10000	-0.50000	1.8598
0.91001	54.37500	40.55000	-0.50000	2.2024
1.8200	53.65000	40.00000	-0.50000	2.5518
2.7300	52.92500	39.45000	-0.50000	2.8876
3.6401	52.20000	38.90000	-0.50000	3.2034

Structure: W | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	52.20000	38.90000	-1.70000	3.2034
0.57009	52.55000	38.45000	-1.70000	3.1186
1.1402	52.90000	38.00000	-1.70000	3.0331

Structure: X | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	66.40000	42.50000	-0.50000	0.0
0.97201	65.62000	41.92000	-0.50000	0.0
1.9440	64.84000	41.34000	-0.50000	0.019100
2.9160	64.06000	40.76000	-0.50000	0.065078
3.8880	63.28000	40.18000	-0.50000	0.099136

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
4.8600	62.50000	39.60000	-0.50000	0.14441
5.8320	61.72000	39.02000	-0.50000	0.30050
6.8041	60.94000	38.44000	-0.50000	1.1487
7.7761	60.16000	37.86000	-0.50000	1.4864
8.7481	59.38000	37.28000	-0.50000	1.8806
9.7201	58.60000	36.70000	-0.50000	2.3164

Structure: Y | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	58.60000	36.70000	-1.40000	2.3164
0.91001	57.87500	36.15000	-1.40000	2.7617
1.8200	57.15000	35.60000	-1.40000	3.2365
2.7300	56.42500	35.05000	-1.40000	3.7295
3.6401	55.70000	34.50000	-1.40000	4.2260

Structure: Z | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	69.70000	38.10000	-0.50000	0.0
0.95802	68.93000	37.53000	-0.50000	0.0
1.9160	68.16000	36.96000	-0.50000	0.0
2.8741	67.39000	36.39000	-0.50000	0.0
3.8321	66.62000	35.82000	-0.50000	0.0
4.7901	65.85000	35.25000	-0.50000	0.036508
5.7481	65.08000	34.68000	-0.50000	0.22659
6.7061	64.31000	34.11000	-0.50000	0.43310
7.6642	63.54000	33.54000	-0.50000	0.65415
8.6222	62.77000	32.97000	-0.50000	0.90462
9.5802	62.00000	32.40000	-0.50000	1.1953

Structure: AA | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	62.00000	32.40000	-1.40000	1.1953
0.91549	61.25000	31.87500	-1.40000	1.5208
1.8310	60.50000	31.35000	-1.40000	1.8925
2.7465	59.75000	30.82500	-1.40000	2.3087
3.6620	59.00000	30.30000	-1.40000	2.7645

Structure: AB | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	73.00000	33.70000	-0.50000	0.0
0.94626	72.23000	33.15000	-0.50000	0.0
1.8925	71.46000	32.60000	-0.50000	0.0
2.8388	70.69000	32.05000	-0.50000	0.0
3.7850	69.92000	31.50000	-0.50000	0.0
4.7313	69.15000	30.95000	-0.50000	0.0
5.6775	68.38000	30.40000	-0.50000	0.0
6.6238	67.61000	29.85000	-0.50000	0.0
7.5700	66.84000	29.30000	-0.50000	0.032112
8.5163	66.07000	28.75000	-0.50000	0.21877
9.4626	65.30000	28.20000	-0.50000	0.40168

Structure: AC | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	65.30000	28.20000	-0.50000	0.40168
0.84673	64.61667	27.70000	-0.50000	0.56740
1.6935	63.93333	27.20000	-0.50000	0.73963
2.5402	63.25000	26.70000	-0.50000	0.91993
3.3869	62.56667	26.20000	-0.50000	1.1082
4.2336	61.88333	25.70000	-0.50000	1.3027
5.0804	61.20000	25.20000	-0.50000	1.5004

Structure: AD | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	61.20000	25.20000	-1.46000	1.5004
0.98298	60.22500	25.32500	-1.46000	1.8394
1.9660	59.25000	25.45000	-1.46000	2.2046
2.9489	58.27500	25.57500	-1.46000	2.5886
3.9319	57.30000	25.70000	-1.46000	2.9808
4.9149	56.32500	25.82500	-1.46000	3.3671
5.8979	55.35000	25.95000	-1.46000	3.7298
6.8809	54.37500	26.07500	-1.46000	4.0483
7.8638	53.40000	26.20000	-1.46000	4.2987

Structure: AE | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	61.20000	25.20000	-0.50000	1.5004
0.82651	61.15000	24.37500	-0.50000	1.4658
1.6530	61.10000	23.55000	-0.50000	1.4131
2.4795	61.05000	22.72500	-0.50000	1.3443
3.3061	61.00000	21.90000	-0.50000	1.2616

Structure: AF | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	50.30000	26.50000	-1.46000	4.2212
0.80351	50.22500	25.70000	-1.46000	4.4653
1.6070	50.15000	24.90000	-1.46000	4.5611
2.4105	50.07500	24.10000	-1.46000	4.5332
3.2140	50.00000	23.30000	-1.46000	4.4122

Structure: AG | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	50.00000	23.30000	-0.50000	4.4122
1.9046	51.88889	23.05556	-0.50000	4.0146
3.8093	53.77778	22.81111	-0.50000	3.4936
5.7139	55.66667	22.56667	-0.50000	2.9696
7.6186	57.55556	22.32222	-0.50000	2.3589
9.5232	59.44444	22.07778	-0.50000	1.7334
11.428	61.33333	21.83333	-0.50000	1.1640
13.332	63.22222	21.58889	-0.50000	0.67852
15.237	65.11111	21.34444	-0.50000	0.25891
17.142	67.00000	21.10000	-0.50000	0.0

Structure: AH | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	59.00000	20.70000	-0.50000	1.6177
0.90554	58.10000	20.80000	-0.50000	1.8787
1.8111	57.20000	20.90000	-0.50000	2.1413
2.7166	56.30000	21.00000	-0.50000	2.3977
3.6222	55.40000	21.10000	-0.50000	2.6647
4.5277	54.50000	21.20000	-0.50000	2.9363
5.4332	53.60000	21.30000	-0.50000	3.1948
6.3388	52.70000	21.40000	-0.50000	3.4329

Structure: AI | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	52.70000	21.40000	-0.50000	3.4329
0.97015	52.56000	20.44000	-0.50000	3.1603
1.9403	52.42000	19.48000	-0.50000	2.8497
2.9105	52.28000	18.52000	-0.50000	2.5178
3.8806	52.14000	17.56000	-0.50000	2.1798
4.8508	52.00000	16.60000	-0.50000	1.8480

Structure: AJ | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	52.00000	16.60000	-0.50000	1.8480
0.99641	51.01111	16.72222	-0.50000	1.9569
1.9928	50.02222	16.84444	-0.50000	2.0342
2.9892	49.03333	16.96667	-0.50000	2.0754
3.9857	48.04444	17.08889	-0.50000	2.6190
4.9821	47.05556	17.21111	-0.50000	2.6132
5.9785	46.06667	17.33333	-0.50000	2.6141
6.9749	45.07778	17.45556	-0.50000	2.6195
7.9713	44.08889	17.57778	-0.50000	2.6231
8.9677	43.10000	17.70000	-0.50000	2.6269

Structure: AK | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	43.10000	17.70000	-0.50000	2.6269
0.98995	43.24000	18.68000	-0.50000	3.2069
1.9799	43.38000	19.66000	-0.50000	3.8220
2.9698	43.52000	20.64000	-0.50000	4.4471
3.9598	43.66000	21.62000	-0.50000	5.0471
4.9497	43.80000	22.60000	-0.50000	5.5779

Structure: AL | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	43.80000	22.60000	-0.50000	5.5779
0.94763	42.86000	22.72000	-0.50000	5.6398
1.8953	41.92000	22.84000	-0.50000	5.7182
2.8429	40.98000	22.96000	-0.50000	5.8128
3.7905	40.04000	23.08000	-0.50000	5.9216
4.7381	39.10000	23.20000	-0.50000	6.0411

Structure: AM | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

0.0	39.10000	23.20000	-0.50000	6.0411
0.90247	39.03333	22.30000	-0.50000	5.4596
1.8049	38.96667	21.40000	-0.50000	4.8255
2.7074	38.90000	20.50000	-0.50000	4.1772

Structure: AN | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]

Vertical Offset 1

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
0.0	38.90000	20.50000	-0.50000	4.1772
0.83442	38.07500	20.62500	-0.50000	4.2358
1.6688	37.25000	20.75000	-0.50000	4.2931
2.5032	36.42500	20.87500	-0.50000	4.3461
3.3377	35.60000	21.00000	-0.50000	3.7729

Structure: AO | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	35.60000	21.00000	-0.50000	3.7729
0.83931	35.70000	21.83333	-0.50000	4.3333
1.6786	35.80000	22.66667	-0.50000	4.9000
2.5179	35.90000	23.50000	-0.50000	5.4496

Structure: AP | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	35.90000	23.50000	-0.50000	5.4496
0.89107	35.02000	23.64000	-0.50000	5.9080
1.7821	34.14000	23.78000	-0.50000	5.7259
2.6732	33.26000	23.92000	-0.50000	5.5043
3.5643	32.38000	24.06000	-0.50000	5.2523
4.4553	31.50000	24.20000	-0.50000	4.4806

Structure: AQ | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	31.50000	24.20000	-0.50000	4.4806
0.98995	31.36000	23.22000	-0.50000	3.9078
1.9799	31.22000	22.24000	-0.50000	3.3613
2.9698	31.08000	21.26000	-0.50000	2.8296
3.9598	30.94000	20.28000	-0.50000	2.3346
4.9497	30.80000	19.30000	-0.50000	1.8906

Structure: AR | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	35.60000	12.40000	-0.50000	0.28271
0.94130	35.72222	13.33333	-0.50000	0.51082
1.8826	35.84444	14.26667	-0.50000	0.76308
2.8239	35.96667	15.20000	-0.50000	1.0873
3.7652	36.08889	16.13333	-0.50000	1.4553
4.7065	36.21111	17.06667	-0.50000	1.8836
5.6478	36.33333	18.00000	-0.50000	2.3846
6.5891	36.45556	18.93333	-0.50000	2.9611
7.5304	36.57778	19.86667	-0.50000	3.6063
8.4717	36.70000	20.80000	-0.50000	4.3037

Structure: AS | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	44.70000	9.30000	-0.50000	0.0
0.90683	44.81111	10.20000	-0.50000	0.052628
1.8137	44.92222	11.10000	-0.50000	0.27148
2.7205	45.03333	12.00000	-0.50000	0.49031
3.6273	45.14444	12.90000	-0.50000	0.72996
4.5342	45.25556	13.80000	-0.50000	1.0062
5.4410	45.36667	14.70000	-0.50000	1.3298
6.3478	45.47778	15.60000	-0.50000	1.7066
7.2547	45.58889	16.50000	-0.50000	2.1370
8.1615	45.70000	17.40000	-0.50000	2.6285

Structure: AT | Sub-structure: Sub #

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	54.50000	10.00000	-0.50000	0.015524
1.8461	54.71667	11.83333	-0.50000	0.35466
3.6922	54.93333	13.66667	-0.50000	0.73892
5.5383	55.15000	15.50000	-0.50000	1.1684
7.3844	55.36667	17.33333	-0.50000	1.6391
9.2305	55.58333	19.16667	-0.50000	2.1132
11.077	55.80000	21.00000	-0.50000	2.5289

Structure: AU | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	33.10000	38.60000	-2.00000	7.2961
0.88891	32.21250	38.65000	-2.00000	7.1565
1.7778	31.32500	38.70000	-2.00000	6.7541
2.6667	30.43750	38.75000	-2.00000	6.1723
3.5556	29.55000	38.80000	-2.00000	5.5251
4.4445	28.66250	38.85000	-2.00000	4.8443
5.3334	27.77500	38.90000	-2.00000	4.1684
6.2224	26.88750	38.95000	-2.00000	3.5050
7.1113	26.00000	39.00000	-2.00000	2.8727

Structure: AV | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
0.0	26.00000	39.00000	-2.00000	2.8727
0.92195	25.94000	38.08000	-2.00000	2.8692
1.8439	25.88000	37.16000	-2.00000	2.8658
2.7659	25.82000	36.24000	-2.00000	2.8623
3.6878	25.76000	35.32000	-2.00000	2.8589
4.6098	25.70000	34.40000	-2.00000	2.8555
5.5317	25.64000	33.48000	-2.00000	2.8521
6.4537	25.58000	32.56000	-2.00000	2.1229
7.3756	25.52000	31.64000	-2.00000	2.0297
8.2976	25.46000	30.72000	-2.00000	1.9131
9.2195	25.40000	29.80000	-2.00000	1.7797

Structure: AW | Sub-structure:

Dist.	Coordinates x	y	z	Displacements z
[m]	[m]	[m]	[m]	[mm]
Vertical Offset 1				
0.0	25.40000	29.80000	-2.00000	1.7797
1.8869	27.28333	29.68333	-2.00000	2.7235
3.7739	29.16667	29.56667	-2.00000	3.7125
5.6608	31.05000	29.45000	-2.00000	5.0793
7.5478	32.93333	29.33333	-2.00000	7.1818
9.4347	34.81667	29.21667	-2.00000	7.7709
11.322	36.70000	29.10000	-2.00000	6.3708

Specific Building Damage Results - All Segments

Structure: A | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.3990	Hogging	0.0029763	0.047882	0.048383	-515.16E-6	-362.76E-6	14135.	0 (Negligible)

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

Structure: B | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.0990	Sagging	335.83E-6	-0.012586	0.0025245	206.95E-6	-160.85E-6	60575.	0 (Negligible)

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

Structure: C | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.2976	Hogging	0.0014779	0.066080	0.066321	-745.72E-6	-595.22E-6	13131.	1 (Very Slight)
	2	3.2976	1.3025	Sagging	226.41E-6	0.048140	0.048169	-629.81E-6	-595.22E-6	55670.	0 (Negligible)

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

Structure: D | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	1.3181	Hogging	0.0036865	-0.014706	0.0036797	189.46E-6	362.66E-6	4314.1	0 (Negligible)
	2	1.3181	1.9632	Sagging	0.017228	0.0069651	0.020445	-123.63E-6	0.0010102	3765.8	0 (Negligible)
	3	3.2812	1.5940	Hogging	0.011073	-0.0083800	0.0088019	144.55E-6	0.0010102	5919.8	0 (Negligible)
	4	4.8752	0.52473	Hogging	0.0	-0.011476	0.0022951	114.77E-6	339.34E-6	4216.7	0 (Negligible)

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

Structure: E | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	2.4990	Sagging	0.0013159	-0.0058172	0.0014001	85.129E-6	-338.44E-6	14198.	0 (Negligible)

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

Structure: F | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	0.40113	Sagging	0.0	0.013347	0.013347	-133.45E-6	490.90E-6	41903.	0 (Negligible)
	2	0.40113	8.8984	Hogging	0.0047801	0.030947	0.033014	-419.83E-6	490.90E-6	14423.	0 (Negligible)

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

Structure: G | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.0	3.0000	Hogging	86.371E-6	-613.24E-6	132.57E-6	-49.005E-6	41.003E-6	316360.	0 (Negligible)

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

Structure: H | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.90062	1.8002	Hogging	438.44E-6	0.029052	0.029092	-316.66E-6	-70.084E-6	39519.	0 (Negligible)

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

Structure: I | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.0	2.7003	Hogging	362.83E-6	0.011259	0.011308	-174.20E-6	54.672E-6	74444.	0 (Negligible)

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

Structure: J | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.0	13.450	Sagging	0.0018626	-0.0040738	0.0010651	100.23E-6	86.649E-6	49099.	0 (Negligible)
	2	13.450	6.0491	Hogging	148.82E-6	-0.0047012	943.96E-6	94.060E-6	86.649E-6	198650.	0 (Negligible)

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

Structure: K | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.0	2.5412	Sagging	0.0096821	-0.013063	0.0070639	358.22E-6	-633.90E-6	1935.7	0 (Negligible)
	2	2.5412	1.4730	Hogging	0.0014133	-0.055815	0.011193	668.44E-6	-576.62E-6	12029.	0 (Negligible)
	3	4.0141	3.4266	Sagging	0.013390	-0.027361	0.0099058	668.44E-6	-576.62E-6	4056.7	0 (Negligible)
	4	7.4408	1.4582	Hogging	99.152E-6	-0.0037539	752.99E-6	67.070E-6	108.30E-6	155660.	0 (Negligible)

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

Structure: L | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.0	6.7766	Hogging	0.0048074	0.068779	0.071612	-939.07E-6	-595.91E-6	13727.	1 (Very Slight)
	2	6.7766	0.42240	Sagging	0.0	0.093752	0.093752	-936.64E-6	-595.91E-6	123000.	2 (Slight)

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

Structure: M | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.0	5.8138	Hogging	0.0033799	0.054899	0.056453	-802.16E-6	-496.50E-6	17248.	1 (Very Slight)
	2	5.8138	1.4859	Sagging	480.27E-6	0.078785	0.078899	-802.16E-6	-496.50E-6	31493.	2 (Slight)

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

Structure: N | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.0	6.0990	Hogging	0.0018946	0.038123	0.038852	-632.21E-6	334.46E-6	12489.	0 (Negligible)

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

Structure: O | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature [m]	Damage Category
0.0	1	0.0	4.5990	Sagging	0.0089511	0.10484	0.11712	-0.0012289	-601.53E-6	2682.4	2 (Slight)

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

Structure: P | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement	Segment	Start [m]	Length [m]	Curvature [%]	Deflection Ratio [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Maximum Gradient of Horizontal Displacement	Maximum Gradient of Vertical Displacement	Min. Radius of Curvature [m]	Damage Category

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	1.9268	Hogging	330.43E-6	0.059243	0.059343	-607.68E-6	-341.91E-6	68339.	1 (Very Slight)
	2	1.9268	1.2874	Sagging	546.31E-6	0.053365	0.053584	-546.14E-6	-341.91E-6	22553.	1 (Very Slight)
	3	3.2141	2.4849	Hogging	0.011659	-0.13342	0.027500	0.0041117	-735.62E-6	1332.1	0 (Negligible)

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

Structure: Q | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	4.5990	Sagging	0.011029	0.065472	0.080665	-743.67E-6	-460.07E-6	2495.2	2 (Slight)

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

Structure: R | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	0.48898	None	0.0	-0.011910	0.0023819	119.11E-6	-478.92E-6	3705.9	0 (Negligible)
	2	0.48898	1.6884	Hogging	0.014410	-0.0082501	0.011736	119.11E-6	-0.0013996	4148.5	0 (Negligible)
	3	2.1774	2.6641	Sagging	0.019756	0.029613	0.049756	-472.17E-6	-0.0013996	2782.0	0 (Negligible)
	4	4.8416	2.5682	Hogging	0.027615	-0.17424	0.038203	0.0039857	-0.0013304	562.66	0 (Negligible)

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

Structure: S | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	7.3583	Sagging	388.00E-6	-0.0055033	0.0011167	63.398E-6	-11.934E-6	242620.	0 (Negligible)
	2	7.3583	0.56855	Hogging	297.58E-6	-0.0045601	928.15E-6	46.798E-6	11.016E-6	3.4224E+6	0 (Negligible)
	3	7.9268	1.7607	None	0.0	-0.0046796	935.95E-6	-55.267E-6	15.731E-6	342600.	0 (Negligible)

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

Structure: T | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	2.5281	Sagging	0.0010397	-0.043172	0.0086543	894.85E-6	-93.966E-6	20038.	0 (Negligible)
	2	2.5281	3.2548	Hogging	0.0020780	-0.10292	0.020619	0.0011383	-115.92E-6	29079.	0 (Negligible)
	3	5.7829	6.3168	Sagging	0.0098031	-917.11E-6	0.0089006	0.0011383	-282.96E-6	10857.	0 (Negligible)
	4	12.100	6.6373	Hogging	0.0084180	0.0050523	0.010671	-78.910E-6	-578.74E-6	10589.	0 (Negligible)
	5	18.737	4.8604	Sagging	0.014298	0.0042591	0.015864	-117.74E-6	-578.74E-6	9117.9	0 (Negligible)
	6	23.597	10.163	Hogging	963.65E-6	0.010169	0.010980	-167.31E-6	218.65E-6	40573.	0 (Negligible)

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

Structure: U | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	1.9720	7.8870	Hogging	0.0048454	0.032027	0.035304	-320.17E-6	-370.92E-6	18350.	0 (Negligible)

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

Structure: V | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	1.0341	Hogging	77.181E-6	0.033385	0.033394	-447.94E-6	-383.70E-6	70690.	0 (Negligible)
	2	1.0341	2.6049	Sagging	653.78E-6	0.055499	0.055886	-600.80E-6	-383.70E-6	38449.	1 (Very Slight)

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

Structure: W | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	1.1392	Sagging	33.986E-6	0.011336	0.011344	-113.35E-6	150.04E-6	415160.	0 (Negligible)

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

Structure: X | Sub-structure:

Vertical Offset from Line for	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category

Vertical Movement Calculations					Strain	Strain	Horizontal Displacement Curve	Vertical Displacement Curve	Curvature	
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	4.8600	1.7333	Hogging	0.017371	0.030927	0.037757	-318.53E-6	-872.41E-6	3843.1	0 (Negligible)
	2	6.5934	1.8267	Sagging	0.0050739	0.041158	0.042816	-462.19E-6	-872.41E-6	10628.	0 (Negligible)
	3	8.4201	1.2990	Hogging	806.80E-6	0.045575	0.045669	-462.19E-6	-448.15E-6	20861.	0 (Negligible)

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

Structure: Y | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.6141	Hogging	949.33E-6	0.046837	0.047188	-483.46E-6	-545.30E-6	25577.	0 (Negligible)
	2	3.6141	0.024928	None	0.0	0.048369	0.048369	-483.46E-6	-545.30E-6	4.1155E+6	0 (Negligible)

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

Structure: Z | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	5.7481	3.8311	Hogging	0.0014764	0.030510	0.031016	-305.01E-6	-303.27E-6	18277.	0 (Negligible)

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

Structure: AA | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.6610	Hogging	0.0023745	0.046377	0.047267	-471.56E-6	-497.68E-6	18096.	0 (Negligible)

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

Structure: AB | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	8.5163	0.42783	Sagging	0.0	0.014228	0.014228	-152.02E-6	-197.23E-6	25016.	0 (Negligible)
	2	8.9441	0.51743	Sagging	0.0	0.014228	0.014228	-142.26E-6	-193.27E-6	20684.	0 (Negligible)

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

Structure: AC | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	5.0794	Hogging	609.84E-6	0.013059	0.013659	-168.54E-6	-233.40E-6	93673.	0 (Negligible)

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

Structure: AD | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.4564	Hogging	865.17E-6	0.038003	0.038500	-402.70E-6	-398.82E-6	34502.	0 (Negligible)
	2	3.4564	4.4065	Sagging	0.0023469	0.045340	0.048193	-500.66E-6	-398.82E-6	13058.	0 (Negligible)

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

Structure: AE | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.3051	Sagging	968.85E-6	-0.0086310	0.0017859	118.56E-6	100.12E-6	36760.	0 (Negligible)

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

Structure: AF | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.2130	Sagging	0.0075864	-0.083714	0.017187	0.0046769	-305.23E-6	4127.4	0 (Negligible)

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

Structure: AG | Sub-structure:

Vertical Offset from Line for	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal	Max. Tensile	Maximum Gradient of	Maximum Gradient of	Min. Radius of	Damage Category

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	8.0923	Sagging	0.0015069	-0.016692	0.0033587	944.00E-6	328.31E-6	23647.	0 (Negligible)
	2	8.0923	7.1448	Hogging	0.0018338	0.023023	0.025296	-298.55E-6	328.31E-6	26481.	0 (Negligible)

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

Structure: AH | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	0.82876	Sagging	0.0	0.021492	0.021492	-214.88E-6	-288.17E-6	224530.	0 (Negligible)
	2	0.82876	0.99413	Hogging	12.322E-6	0.018653	0.018653	-214.88E-6	-290.00E-6	2.4312E+6	0 (Negligible)
	3	1.8229	1.9259	Hogging	309.79E-6	0.013359	0.013384	-143.75E-6	-299.89E-6	166750.	0 (Negligible)
	4	3.7488	2.5890	Sagging	662.90E-6	-0.0031223	737.18E-6	150.80E-6	-299.89E-6	36727.	0 (Negligible)

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

Structure: AI | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.5776	Sagging	0.0010914	0.019588	0.019910	-271.93E-6	348.31E-6	22247.	0 (Negligible)
	2	3.5776	1.2722	Hogging	114.96E-6	0.028715	0.028721	-291.80E-6	348.31E-6	101550.	0 (Negligible)

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

Structure: AJ | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	1.2425	Sagging	499.58E-6	-0.014783	0.0029706	181.18E-6	-109.27E-6	30393.	0 (Negligible)
	2	1.2425	2.1609	Hogging	0.0075680	-0.017194	0.0059131	209.77E-6	-545.62E-6	9468.9	0 (Negligible)
	3	3.4033	2.5495	Sagging	0.0096096	-768.34E-6	0.0092667	64.335E-6	-545.62E-6	6740.3	0 (Negligible)
	4	5.9528	1.4967	Sagging	38.477E-6	0.0044089	0.0044137	-45.485E-6	-5.5039E-6	283960.	0 (Negligible)
	5	7.4495	0.79571	Hogging	5.4494E-6	0.0040799	0.0040801	-42.543E-6	-3.8327E-6	3.3699E+6	0 (Negligible)
	6	8.2453	0.72146	None	0.0	0.0037474	0.0037474	-37.473E-6	-3.8327E-6	1.2764E+6	0 (Negligible)

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

Structure: AK | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	2.1928	Hogging	917.02E-6	0.064757	0.064841	-650.11E-6	-630.99E-6	23704.	1 (Very Slight)
	2	2.1928	2.7559	Sagging	0.0018558	0.064117	0.064540	-641.93E-6	-630.99E-6	12210.	1 (Very Slight)

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

Structure: AL | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	4.7371	Hogging	948.54E-6	0.0027757	0.0030249	-65.367E-6	-126.14E-6	54363.	0 (Negligible)

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

Structure: AM | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	2.7064	Sagging	0.0014679	0.074333	0.074662	-743.46E-6	717.80E-6	13108.	1 (Very Slight)

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

Structure: AN | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.3367	Sagging	0.014087	-0.010764	0.011085	208.78E-6	687.07E-6	889.99	0 (Negligible)

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

Structure: AO | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement	Segment	Start	Length	Curvature	Deflection	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement	Maximum Gradient of Vertical Displacement	Min. Radius of Curvature	Damage Category

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	0.86915	Hogging	24.626E-6	0.072485	0.072485	-738.99E-6	-674.70E-6	58107.	1 (Very Slight)
	2	0.86915	1.6478	Sagging	506.87E-6	0.074782	0.074851	-755.25E-6	-674.70E-6	30636.	1 (Very Slight)

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

Structure: AP | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	4.4543	Sagging	0.014898	-0.053258	0.013862	917.13E-6	866.23E-6	1002.5	0 (Negligible)

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

Structure: AQ | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	4.9487	Hogging	0.0019544	0.042235	0.042635	-524.72E-6	578.44E-6	17977.	0 (Negligible)

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

Structure: AR | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	8.4707	Hogging	0.0074632	0.065745	0.068339	-794.48E-6	-740.36E-6	12142.	1 (Very Slight)

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

Structure: AS | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	1.8137	6.3468	Hogging	0.0045319	0.046960	0.048147	-613.34E-6	-541.59E-6	13122.	0 (Negligible)

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

Structure: AT | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	1.8461	5.4030	Hogging	792.08E-6	0.015823	0.016000	-191.78E-6	-254.91E-6	75494.	0 (Negligible)
	2	7.2491	3.8264	Sagging	781.32E-6	0.0062049	0.0064509	-191.78E-6	-256.76E-6	46211.	0 (Negligible)

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

Structure: AU | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	4.5849	Sagging	0.0097649	0.12676	0.13869	-0.0014145	765.06E-6	2792.5	2 (Slight)
	2	4.5849	2.5253	Hogging	940.14E-6	0.10145	0.10184	-0.0010820	759.55E-6	22146.	2 (Slight)

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

Structure: AV | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	3.6879	Hogging	0.0	11.371E-6	11.909E-6	0.0	3.7760E-6	51.727E+6	0 (Negligible)
	2	3.6879	2.4055	Sagging	0.014021	-0.0039675	0.011730	170.31E-6	791.04E-6	4179.3	0 (Negligible)
	3	6.0934	2.0993	Hogging	0.0096375	-0.028050	0.0081113	334.01E-6	791.04E-6	5942.8	0 (Negligible)
	4	8.1927	1.0258	Sagging	164.30E-6	-0.020248	0.0040506	268.93E-6	144.64E-6	46339.	0 (Negligible)

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

Structure: AW | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]			[m]	
0.0	1	0.0	0.43048	None	0.0	0.049902	0.049902	-498.77E-6	-499.93E-6	93852.	0 (Negligible)
	2	0.43048	5.3678	Hogging	0.0055312	0.037302	0.041868	-498.77E-6	-0.0011142	9337.1	0 (Negligible)
	3	5.7983	5.5224	Sagging	0.032351	0.038267	0.081895	-710.19E-6	-0.0011142	1690.6	2 (Slight)

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

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

Vertical Offset from Line for Vertical Movement	Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement	Maximum Gradient of Vertical Displacement	Min. Radius of Curvature	Min. Radius of Curvature	Damage Category

Structure: A | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0029763	0.047882	-362.76E-6	1.3407	0.048383	-515.16E-6	-362.76E-6	14135.		- 0 (Negligible)

Structure: B | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	335.83E-6	-0.012586	-160.85E-6	1.8155	0.0025245	206.95E-6	-160.85E-6	-	60575.	0 (Negligible)

Structure: C | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0014779	0.066080	-595.22E-6	4.4250	0.066321	-745.72E-6	-595.22E-6	13131.	55670.	1 (Very Slight)

Structure: D | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.017228	-0.014706	0.0010102	4.4256	0.020445	189.46E-6	0.0010102	4216.7	3765.8	0 (Negligible)

Structure: E | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0013159	-0.0058172	-338.44E-6	3.0592	0.0014001	85.129E-6	-338.44E-6	-	14198.	0 (Negligible)

Structure: F | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0047801	0.030947	490.90E-6	3.0594	0.033014	-419.83E-6	490.90E-6	14423.	41903.	0 (Negligible)

Structure: G | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	86.371E-6	-613.24E-6	41.003E-6	0.24315	132.57E-6	-49.005E-6	41.003E-6	316360.		- 0 (Negligible)

Structure: H | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	438.44E-6	0.029052	-70.084E-6	0.22254	0.029092	-316.66E-6	-70.084E-6	39519.		- 0 (Negligible)

Structure: I | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	362.83E-6	0.011259	54.672E-6	0.22261	0.011308	-174.20E-6	54.672E-6	74444.		- 0 (Negligible)

Structure: J | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0018626	-0.0047012	86.649E-6	0.55511	0.0010651	100.23E-6	86.649E-6	198650.	49099.	0 (Negligible)

Structure: K | Sub-structure:

Vertical Offset from	Deflection Ratio	Average Horizontal	Maximum Slope	Maximum Settlement	Max. Tensile	Maximum Gradient of	Maximum Gradient of	Min. Radius of	Min. Radius of	Damage Category

Line for Vertical Movement Calculations	Strain			Strain	Horizontal Displacement Curve	Vertical Displacement Curve	Curvature (Hogging)	Curvature (Sagging)	
[m]	[%]	[%]		[mm]	[%]		[m]	[m]	
0.0	0.013390	-0.055815	-633.90E-6	3.9779	0.011193	668.44E-6	-633.90E-6	12029.	1935.7 0 (Negligible)

Structure: L | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0048074	0.093752	-595.91E-6	3.9981	0.093752	-939.07E-6	-595.91E-6	13727.	123000.	2 (Slight)

Structure: M | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0033799	0.078785	-496.50E-6	3.5704	0.078899	-802.16E-6	-496.50E-6	17248.	31493.	2 (Slight)

Structure: N | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0018946	0.038123	334.46E-6	2.0749	0.038852	-632.21E-6	334.46E-6	12489.	-	0 (Negligible)

Structure: O | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0089511	0.10484	-601.53E-6	5.8644	0.11712	-0.0012289	-601.53E-6	-	2682.4	2 (Slight)

Structure: P | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.011659	-0.13342	-735.62E-6	4.1956	0.059343	0.0041117	-735.62E-6	1332.1	22553.	1 (Very Slight)

Structure: Q | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.011029	0.065472	-460.07E-6	4.7526	0.080665	-743.67E-6	-460.07E-6	-	2495.2	2 (Slight)

Structure: R | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.027615	-0.17424	-0.0013996	7.2172	0.049756	0.0039857	-0.0013996	562.66	2782.0	0 (Negligible)

Structure: S | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	388.00E-6	-0.0055033	15.731E-6	0.13870	0.0011167	63.398E-6	15.731E-6	3.4224E+6	242620.	0 (Negligible)

Structure: T | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.014298	-0.10292	-578.74E-6	3.1144	0.020619	0.0011383	-578.74E-6	10589.	9117.9	0 (Negligible)

Structure: U | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0048454	0.032027	-370.92E-6	1.8595	0.035304	-320.17E-6	-370.92E-6	18350.	-	0 (Negligible)

Vertical Offset from Line for Vertical	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement	Maximum Gradient of Vertical Displacement	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	653.78E-6	0.055499	-383.70E-6	3.2030	0.055886	-600.80E-6	-383.70E-6	70690.	38449.	1 (Very Slight)

Structure: V | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	653.78E-6	0.055499	-383.70E-6	3.2030	0.055886	-600.80E-6	-383.70E-6	70690.	38449.	1 (Very Slight)

Structure: W | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	33.986E-6	0.011336	150.04E-6	3.2034	0.011344	-113.35E-6	150.04E-6	-	415160.	0 (Negligible)

Structure: X | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.017371	0.045575	-872.41E-6	2.3160	0.045669	-462.19E-6	-872.41E-6	3843.1	10628.	0 (Negligible)

Structure: Y | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	949.33E-6	0.048369	-545.30E-6	4.2254	0.048369	-483.46E-6	-545.30E-6	25577.	-	0 (Negligible)

Structure: Z | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0014764	0.030510	-303.27E-6	1.1949	0.031016	-305.01E-6	-303.27E-6	18277.	-	0 (Negligible)

Structure: AA | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0023745	0.046377	-497.68E-6	2.7640	0.047267	-471.56E-6	-497.68E-6	18096.	-	0 (Negligible)

Structure: AB | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0	0.014228	-197.23E-6	0.40148	0.014228	-152.02E-6	-197.23E-6	-	20684.	0 (Negligible)

Structure: AC | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	609.84E-6	0.013059	-233.40E-6	1.5001	0.013659	-168.54E-6	-233.40E-6	93673.	-	0 (Negligible)

Structure: AD | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0023469	0.045340	-398.82E-6	4.2984	0.048193	-500.66E-6	-398.82E-6	34502.	13058.	0 (Negligible)

Structure: AE | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	968.85E-6	-0.0086310	100.12E-6	1.5004	0.0017859	118.56E-6	100.12E-6	-	36760.	0 (Negligible)

Structure: AF | Sub-structure:

Vertical Offset from	Deflection Ratio	Average Horizontal	Maximum Slope	Maximum Settlement	Max. Tensile	Maximum Gradient of	Maximum Gradient of	Min. Radius of	Min. Radius of	Damage Category

Line for Vertical Movement Calculations	Strain			Strain	Horizontal Displacement Curve	Vertical Displacement Curve	Curvature (Hogging)	Curvature (Sagging)	
[m]	[%]	[%]	[mm]	[%]			[m]	[m]	
0.0	0.0075864	-0.083714	-305.23E-6	4.5605	0.017187	0.0046769	-305.23E-6	-	4127.4 0 (Negligible)

Structure: AG | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0018338	0.023023	328.31E-6	4.4122	0.025296	944.00E-6	328.31E-6	26481.	23647.	0 (Negligible)

Structure: AH | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	662.90E-6	0.021492	-299.89E-6	3.4326	0.021492	-214.88E-6	-299.89E-6	166750.	36727.	0 (Negligible)

Structure: AI | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0010914	0.028715	348.31E-6	3.4329	0.028721	-291.80E-6	348.31E-6	101550.	22247.	0 (Negligible)

Structure: AJ | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0096096	-0.017194	-545.62E-6	2.6269	0.0092667	209.77E-6	-545.62E-6	9468.9	6740.3	0 (Negligible)

Structure: AK | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0018558	0.064757	-630.99E-6	5.5773	0.064841	-650.11E-6	-630.99E-6	23704.	12210.	1 (Very Slight)

Structure: AL | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	948.54E-6	0.0027757	-126.14E-6	6.0410	0.0030249	-65.367E-6	-126.14E-6	54363.	-	0 (Negligible)

Structure: AM | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0014679	0.074333	717.80E-6	6.0411	0.074662	-743.46E-6	717.80E-6	-	13108.	1 (Very Slight)

Structure: AN | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.014087	-0.010764	687.07E-6	4.3455	0.011085	208.78E-6	687.07E-6	-	889.99	0 (Negligible)

Structure: AO | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	506.87E-6	0.074782	-674.70E-6	5.4489	0.074851	-755.25E-6	-674.70E-6	58107.	30636.	1 (Very Slight)

Structure: AP | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.014898	-0.053258	866.23E-6	5.9061	0.013862	917.13E-6	866.23E-6	-	1002.5	0 (Negligible)

Vertical Offset from Line for Vertical	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement	Maximum Gradient of Vertical Displacement	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category

Structure: AQ | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0019544	0.042235	578.44E-6	4.4806	0.042635	-524.72E-6	578.44E-6	17977.		- 0 (Negligible)

Structure: AR | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0074632	0.065745	-740.36E-6	4.3030	0.068339	-794.48E-6	-740.36E-6	12142.		- 1 (Very Slight)

Structure: AS | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0045319	0.046960	-541.59E-6	2.6279	0.048147	-613.34E-6	-541.59E-6	13122.		- 0 (Negligible)

Structure: AT | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	792.08E-6	0.015823	-256.76E-6	2.5287	0.016000	-191.78E-6	-256.76E-6	75494.	46211.	0 (Negligible)

Structure: AU | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.0097649	0.12676	765.06E-6	7.2961	0.13869	-0.0014145	765.06E-6	22146.	2792.5	2 (Slight)

Structure: AV | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.014021	-0.028050	791.04E-6	2.8727	0.011730	334.01E-6	791.04E-6	5942.8	4179.3	0 (Negligible)

Structure: AW | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Deflection Ratio	Average Horizontal Strain	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Maximum Gradient of Horizontal Displacement Curve	Maximum Gradient of Vertical Displacement Curve	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
[m]	[%]	[%]		[mm]	[%]			[m]	[m]	
0.0	0.032351	0.049902	-0.0011142	7.7676	0.081895	-710.19E-6	-0.0011142	9337.1	1690.6	2 (Slight)

Specific Building Damage Results - Critical Segments within Each Structure

Structure Name	Parameter	Critical Sub-Structure	Critical Segment	Start	End	Curvature	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
				[m]	[m]			[mm]	[%]	[m]	[m]	
A	Maximum Slope		1	0.0	3.3990	Hogging	**362.76E-6**	1.3407	0.048383	14135.		- 0 (Negligible)
	Maximum Settlement		1	0.0	3.3990	Hogging	362.76E-6	**1.3407**	0.048383	14135.		- 0 (Negligible)
	Max. Tensile Strain		1	0.0	3.3990	Hogging	362.76E-6	1.3407	**0.048383**	14135.		- 0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	0.0	3.3990	Hogging	362.76E-6	1.3407	0.048383	**14135.**		- 0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	- -	-	-	-	-	-	- -
B	Maximum Slope		1	0.0	3.0990	Sagging	**160.85E-6**	1.8155	0.0025245	-	60575.	0 (Negligible)
	Maximum Settlement		1	0.0	3.0990	Sagging	160.85E-6	**1.8155**	0.0025245	-	60575.	0 (Negligible)
	Max. Tensile Strain		1	0.0	3.0990	Sagging	160.85E-6	1.8155	**0.0025245**	-	60575.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	- -	-	-	-	-	-	- -
	Min. Radius of Curvature (Sagging)		1	0.0	3.0990	Sagging	160.85E-6	1.8155	0.0025245	-	**60575.**	0 (Negligible)
C	Maximum Slope		1	0.0	3.2976	Hogging	**595.22E-6**	3.6595	0.066321	13131.		- 1 (Very Slight)
	Maximum Settlement		2	3.2976	4.6001	Sagging	595.22E-6	**4.4250**	0.048169	-	55670.	0 (Negligible)
	Max. Tensile Strain		1	0.0	3.2976	Hogging	595.22E-6	3.6595	**0.066321**	13131.		- 1 (Very Slight)
	Min. Radius of Curvature (Hogging)		1	0.0	3.2976	Hogging	595.22E-6	3.6595	0.066321	**13131.**		- 1 (Very Slight)
	Min. Radius of Curvature (Sagging)		2	3.2976	4.6001	Sagging	595.22E-6	4.4250	0.048169	-	**55670.**	0 (Negligible)

Structure Name	Parameter	Critical Sub-Structure	Critical Segment	Start	End	Curvature	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
D	Maximum Slope		2	1.3181	3.2812	Sagging	**0.0010102**	4.0195	0.020445	-	3765.8	0 (Negligible)
	Maximum Settlement		1	0.0	1.3181	Hogging	362.66E-6	**4.4256**	0.0036797	4314.1	-	0 (Negligible)
	Max. Tensile Strain		2	1.3181	3.2812	Sagging	0.0010102	4.0195	**0.020445**	-	3765.8	0 (Negligible)
	Min. Radius of Curvature (Hogging)		4	4.8752	5.3999	Hogging	339.34E-6	2.4632	0.0022951	**4216.7**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		2	1.3181	3.2812	Sagging	0.0010102	4.0195	0.020445	-	**3765.8**	0 (Negligible)
E	Maximum Slope		1	0.0	2.4990	Sagging	**338.44E-6**	3.0592	0.0014001	-	14198.	0 (Negligible)
	Maximum Settlement		1	0.0	2.4990	Sagging	338.44E-6	**3.0592**	0.0014001	-	14198.	0 (Negligible)
	Max. Tensile Strain		1	0.0	2.4990	Sagging	338.44E-6	3.0592	**0.0014001**	-	14198.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		1	0.0	2.4990	Sagging	338.44E-6	3.0592	0.0014001	-	**14198.**	0 (Negligible)
F	Maximum Slope		1	0.0	0.40113	Sagging	**490.90E-6**	3.0594	0.013347	-	41903.	0 (Negligible)
	Maximum Settlement		1	0.0	0.40113	Sagging	490.90E-6	**3.0594**	0.013347	-	41903.	0 (Negligible)
	Max. Tensile Strain		2	0.40113	9.2995	Hogging	490.90E-6	2.8625	**0.033014**	14423.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		2	0.40113	9.2995	Hogging	490.90E-6	2.8625	0.033014	**14423.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		1	0.0	0.40113	Sagging	490.90E-6	3.0594	0.013347	-	**41903.**	0 (Negligible)
G	Maximum Slope		1	0.0	3.0000	Hogging	**41.003E-6**	0.24315	132.57E-6	316360.	-	0 (Negligible)
	Maximum Settlement		1	0.0	3.0000	Hogging	41.003E-6	**0.24315**	132.57E-6	316360.	-	0 (Negligible)
	Max. Tensile Strain		1	0.0	3.0000	Hogging	41.003E-6	0.24315	**132.57E-6**	316360.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	0.0	3.0000	Hogging	41.003E-6	0.24315	132.57E-6	**316360.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
H	Maximum Slope		1	0.90062	2.7009	Hogging	**70.084E-6**	0.22254	0.029092	39519.	-	0 (Negligible)
	Maximum Settlement		1	0.90062	2.7009	Hogging	70.084E-6	**0.22254**	0.029092	39519.	-	0 (Negligible)
	Max. Tensile Strain		1	0.90062	2.7009	Hogging	70.084E-6	0.22254	**0.029092**	39519.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	0.90062	2.7009	Hogging	70.084E-6	0.22254	0.029092	**39519.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
I	Maximum Slope		1	0.0	2.7003	Hogging	**54.672E-6**	0.22261	0.011308	74444.	-	0 (Negligible)
	Maximum Settlement		1	0.0	2.7003	Hogging	54.672E-6	**0.22261**	0.011308	74444.	-	0 (Negligible)
	Max. Tensile Strain		1	0.0	2.7003	Hogging	54.672E-6	0.22261	**0.011308**	74444.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	0.0	2.7003	Hogging	54.672E-6	0.22261	0.011308	**74444.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
J	Maximum Slope		1	0.0	13.450	Sagging	**86.649E-6**	0.55511	0.0010651	-	49099.	0 (Negligible)
	Maximum Settlement		1	0.0	13.450	Sagging	86.649E-6	**0.55511**	0.0010651	-	49099.	0 (Negligible)
	Max. Tensile Strain		1	0.0	13.450	Sagging	86.649E-6	0.55511	**0.0010651**	-	49099.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		2	13.450	19.499	Hogging	86.649E-6	0.36937	943.96E-6	**198650.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		1	0.0	13.450	Sagging	86.649E-6	0.55511	0.0010651	-	**49099.**	0 (Negligible)
K	Maximum Slope		1	0.0	2.5412	Sagging	**633.90E-6**	3.1171	0.0070639	-	1935.7	0 (Negligible)
	Maximum Settlement		3	4.0141	7.4408	Sagging	576.62E-6	**3.9779**	0.0099058	-	4056.7	0 (Negligible)
	Max. Tensile Strain		2	2.5412	4.0141	Hogging	576.62E-6	3.4423	**0.011193**	12029.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		2	2.5412	4.0141	Hogging	576.62E-6	3.4423	0.011193	**12029.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		1	0.0	2.5412	Sagging	633.90E-6	3.1171	0.0070639	-	**1935.7**	0 (Negligible)
L	Maximum Slope		1	0.0	6.7766	Hogging	**595.91E-6**	3.7461	0.071612	13727.	-	1 (Very Slight)
	Maximum Settlement		2	6.7766	7.1990	Sagging	595.91E-6	**3.9981**	0.093752	-	123000.	2 (Slight)
	Max. Tensile Strain		2	6.7766	7.1990	Sagging	595.91E-6	3.9981	**0.093752**	-	123000.	2 (Slight)
	Min. Radius of Curvature (Hogging)		1	0.0	6.7766	Hogging	595.91E-6	3.7461	0.071612	**13727.**	-	1 (Very Slight)
	Min. Radius of Curvature (Sagging)		2	6.7766	7.1990	Sagging	595.91E-6	3.9981	0.093752	-	**123000.**	2 (Slight)
M	Maximum Slope		1	0.0	5.8138	Hogging	**496.50E-6**	2.8507	0.056453	17248.	-	1 (Very Slight)
	Maximum Settlement		2	5.8138	7.2997	Sagging	496.50E-6	**3.5704**	0.078899	-	31493.	2 (Slight)
	Max. Tensile Strain		2	5.8138	7.2997	Sagging	496.50E-6	3.5704	**0.078899**	-	31493.	2 (Slight)
	Min. Radius of Curvature (Hogging)		1	0.0	5.8138	Hogging	496.50E-6	2.8507	0.056453	**17248.**	-	1 (Very Slight)
	Min. Radius of Curvature (Sagging)		2	5.8138	7.2997	Sagging	496.50E-6	3.5704	0.078899	-	**31493.**	2 (Slight)
N	Maximum Slope		1	0.0	6.0990	Hogging	**334.46E-6**	2.0749	0.038852	12489.	-	0 (Negligible)
	Maximum Settlement		1	0.0	6.0990	Hogging	334.46E-6	**2.0749**	0.038852	12489.	-	0 (Negligible)
	Max. Tensile Strain		1	0.0	6.0990	Hogging	334.46E-6	2.0749	**0.038852**	12489.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	0.0	6.0990	Hogging	334.46E-6	2.0749	0.038852	**12489.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
O	Maximum Slope		1	0.0	4.5990	Sagging	**601.53E-6**	5.8644	0.11712	-	2682.4	2 (Slight)
	Maximum Settlement		1	0.0	4.5990	Sagging	601.53E-6	**5.8644**	0.11712	-	2682.4	2 (Slight)
	Max. Tensile Strain		1	0.0	4.5990	Sagging	601.53E-6	5.8644	**0.11712**	-	2682.4	2 (Slight)
	Min. Radius of		-	-	-	-	-	-	-	-	-	-

Structure Name	Parameter	Critical Sub-Structure	Critical Segment	Start	End	Curvature	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
	Curvature (Hogging)			- -	- -			- -	- -	- -	- -	
	Min. Radius of Curvature (Sagging)		1	0.0	4.5990	Sagging	601.53E-6	5.8644	0.11712	-	**2682.4**	2 (Slight)
P	Maximum Slope	Sub #	3	3.2141	5.6990	Hogging	**735.62E-6**	4.1956	0.027500	1332.1	-	0 (Negligible)
	Maximum Settlement	Sub #	3	3.2141	5.6990	Hogging	735.62E-6	**4.1956**	0.027500	1332.1	-	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	1.9268	Hogging	341.91E-6	2.7038	**0.059343**	68339.	-	1 (Very Slight)
	Min. Radius of Curvature (Hogging)	Sub #	3	3.2141	5.6990	Hogging	735.62E-6	4.1956	0.027500	**1332.1**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)	Sub #	2	1.9268	3.2141	Sagging	341.91E-6	3.1344	0.053584	-	**22553.**	1 (Very Slight)
Q	Maximum Slope		1	0.0	4.5990	Sagging	**460.07E-6**	4.7526	0.080665	-	2495.2	2 (Slight)
	Maximum Settlement		1	0.0	4.5990	Sagging	460.07E-6	**4.7526**	0.080665	-	2495.2	2 (Slight)
	Max. Tensile Strain		1	0.0	4.5990	Sagging	460.07E-6	4.7526	**0.080665**	-	2495.2	2 (Slight)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		1	0.0	4.5990	Sagging	460.07E-6	4.7526	0.080665	-	**2495.2**	2 (Slight)
R	Maximum Slope		2	0.48898	2.1774	Hogging	**0.0013996**	4.4126	0.011736	4148.5	-	0 (Negligible)
	Maximum Settlement		4	4.8416	7.4098	Hogging	0.0013304	**7.2172**	0.038203	562.66	-	0 (Negligible)
	Max. Tensile Strain		3	2.1774	4.8416	Sagging	0.0013996	5.7907	**0.049756**	-	2782.0	0 (Negligible)
	Min. Radius of Curvature (Hogging)		4	4.8416	7.4098	Hogging	0.0013304	7.2172	0.038203	**562.66**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		3	2.1774	4.8416	Sagging	0.0013996	5.7907	0.049756	-	**2782.0**	0 (Negligible)
S	Maximum Slope		3	7.9268	9.6875	Sagging	**15.731E-6**	0.11516	935.95E-6	-	342600.	0 (Negligible)
	Maximum Settlement		1	0.0	7.3583	Sagging	11.934E-6	**0.13870**	0.0011167	-	242620.	0 (Negligible)
	Max. Tensile Strain		1	0.0	7.3583	Sagging	11.934E-6	0.13870	**0.0011167**	-	242620.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		2	7.3583	7.9268	Hogging	11.016E-6	0.11383	928.15E-6	**3.4224E+6**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		1	0.0	7.3583	Sagging	11.934E-6	0.13870	0.0011167	-	**242620.**	0 (Negligible)
T	Maximum Slope		4	12.100	18.737	Hogging	**578.74E-6**	2.4212	0.010671	10589.	-	0 (Negligible)
	Maximum Settlement		3	5.7829	12.100	Sagging	282.96E-6	**3.1144**	0.0089006	-	10857.	0 (Negligible)
	Max. Tensile Strain		2	2.5281	5.7829	Hogging	115.92E-6	2.5338	**0.020619**	29079.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		4	12.100	18.737	Hogging	578.74E-6	2.4212	0.010671	**10589.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		5	18.737	23.597	Sagging	578.74E-6	2.6114	0.015864	-	**9117.9**	0 (Negligible)
U	Maximum Slope		1	1.9720	9.8590	Hogging	**370.92E-6**	1.8595	0.035304	18350.	-	0 (Negligible)
	Maximum Settlement		1	1.9720	9.8590	Hogging	370.92E-6	**1.8595**	0.035304	18350.	-	0 (Negligible)
	Max. Tensile Strain		1	1.9720	9.8590	Hogging	370.92E-6	1.8595	**0.035304**	18350.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	1.9720	9.8590	Hogging	370.92E-6	1.8595	0.035304	**18350.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
V	Maximum Slope		1	0.0	1.0341	Hogging	**383.70E-6**	2.2501	0.033394	70690.	-	0 (Negligible)
	Maximum Settlement		2	1.0341	3.6391	Sagging	383.70E-6	**3.2030**	0.055886	-	38449.	1 (Very Slight)
	Max. Tensile Strain		2	1.0341	3.6391	Sagging	383.70E-6	3.2030	**0.055886**	-	38449.	1 (Very Slight)
	Min. Radius of Curvature (Hogging)		1	0.0	1.0341	Hogging	383.70E-6	2.2501	0.033394	**70690.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		2	1.0341	3.6391	Sagging	383.70E-6	3.2030	0.055886	-	**38449.**	1 (Very Slight)
W	Maximum Slope		1	0.0	1.1392	Sagging	**150.04E-6**	3.2034	0.011344	-	415160.	0 (Negligible)
	Maximum Settlement		1	0.0	1.1392	Sagging	150.04E-6	**3.2034**	0.011344	-	415160.	0 (Negligible)
	Max. Tensile Strain		1	0.0	1.1392	Sagging	150.04E-6	3.2034	**0.011344**	-	415160.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		1	0.0	1.1392	Sagging	150.04E-6	3.2034	0.011344	-	**415160.**	0 (Negligible)
X	Maximum Slope		1	4.8600	6.5934	Hogging	**872.41E-6**	0.96487	0.037757	3843.1	-	0 (Negligible)
	Maximum Settlement		3	8.4201	9.7191	Hogging	448.15E-6	**2.3160**	0.045669	20861.	-	0 (Negligible)
	Max. Tensile Strain		3	8.4201	9.7191	Hogging	448.15E-6	2.3160	**0.045669**	20861.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	4.8600	6.5934	Hogging	872.41E-6	0.96487	0.037757	**3843.1**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		2	6.5934	8.4201	Sagging	872.41E-6	1.7476	0.042816	-	**10628.**	0 (Negligible)
Y	Maximum Slope		1	0.0	3.6141	Hogging	**545.30E-6**	4.2118	0.047188	25577.	-	0 (Negligible)
	Maximum Settlement		2	3.6141	3.6391	Sagging	545.30E-6	**4.2254**	0.048369	-	4.1155E+6	0 (Negligible)
	Max. Tensile Strain		2	3.6141	3.6391	Sagging	545.30E-6	4.2254	**0.048369**	-	4.1155E+6	0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	0.0	3.6141	Hogging	545.30E-6	4.2118	0.047188	**25577.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
Z	Maximum Slope		1	5.7481	9.5792	Hogging	**303.27E-6**	1.1949	0.031016	18277.	-	0 (Negligible)
	Maximum Settlement		1	5.7481	9.5792	Hogging	303.27E-6	**1.1949**	0.031016	18277.	-	0 (Negligible)
	Max. Tensile Strain		1	5.7481	9.5792	Hogging	303.27E-6	1.1949	**0.031016**	18277.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	5.7481	9.5792	Hogging	303.27E-6	1.1949	0.031016	**18277.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
AA	Maximum Slope		1	0.0	3.6610	Hogging	**497.68E-6**	2.7640	0.047267	18096.	-	0 (Negligible)

Structure Name	Parameter	Critical Sub-Structure	Critical Segment	Start	End	Curvature	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
	Maximum Settlement		1	0.0	3.6610	Hogging	497.68E-6	**2.7640**	0.047267	18096.	-	0 (Negligible)
	Max. Tensile Strain		1	0.0	3.6610	Hogging	497.68E-6	2.7640	**0.047267**	18096.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	0.0	3.6610	Hogging	497.68E-6	2.7640	0.047267	**18096.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
AB	Maximum Slope		1	8.5163	8.9441	Sagging	**197.23E-6**	0.30147	0.014228	-	25016.	0 (Negligible)
	Maximum Settlement		2	8.9441	9.4616	Sagging	193.27E-6	**0.40148**	0.014228	-	20684.	0 (Negligible)
	Max. Tensile Strain		1	8.5163	8.9441	Sagging	197.23E-6	0.30147	**0.014228**	-	25016.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		2	8.9441	9.4616	Sagging	193.27E-6	0.40148	0.014228	-	**20684.**	0 (Negligible)
AC	Maximum Slope		1	0.0	5.0794	Hogging	**233.40E-6**	1.5001	0.013659	93673.	-	0 (Negligible)
	Maximum Settlement		1	0.0	5.0794	Hogging	233.40E-6	**1.5001**	0.013659	93673.	-	0 (Negligible)
	Max. Tensile Strain		1	0.0	5.0794	Hogging	233.40E-6	1.5001	**0.013659**	93673.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	0.0	5.0794	Hogging	233.40E-6	1.5001	0.013659	**93673.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
AD	Maximum Slope		1	0.0	3.4564	Hogging	**398.82E-6**	2.7911	0.038500	34502.	-	0 (Negligible)
	Maximum Settlement		2	3.4564	7.8628	Sagging	398.82E-6	**4.2984**	0.048193	-	13058.	0 (Negligible)
	Max. Tensile Strain		2	3.4564	7.8628	Sagging	398.82E-6	4.2984	**0.048193**	-	13058.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		1	0.0	3.4564	Hogging	398.82E-6	2.7911	0.038500	**34502.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		2	3.4564	7.8628	Sagging	398.82E-6	4.2984	0.048193	-	**13058.**	0 (Negligible)
AE	Maximum Slope		1	0.0	3.3051	Sagging	**100.12E-6**	1.5004	0.0017859	-	36760.	0 (Negligible)
	Maximum Settlement		1	0.0	3.3051	Sagging	100.12E-6	**1.5004**	0.0017859	-	36760.	0 (Negligible)
	Max. Tensile Strain		1	0.0	3.3051	Sagging	100.12E-6	1.5004	**0.0017859**	-	36760.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		1	0.0	3.3051	Sagging	100.12E-6	1.5004	0.0017859	-	**36760.**	0 (Negligible)
AF	Maximum Slope		1	0.0	3.2130	Sagging	**305.23E-6**	4.5605	0.017187	-	4127.4	0 (Negligible)
	Maximum Settlement		1	0.0	3.2130	Sagging	305.23E-6	**4.5605**	0.017187	-	4127.4	0 (Negligible)
	Max. Tensile Strain		1	0.0	3.2130	Sagging	305.23E-6	4.5605	**0.017187**	-	4127.4	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)		1	0.0	3.2130	Sagging	305.23E-6	4.5605	0.017187	-	**4127.4**	0 (Negligible)
AG	Maximum Slope		1	0.0	8.0923	Sagging	**328.31E-6**	4.4122	0.0033587	-	23647.	0 (Negligible)
	Maximum Settlement		1	0.0	8.0923	Sagging	328.31E-6	**4.4122**	0.0033587	-	23647.	0 (Negligible)
	Max. Tensile Strain		2	8.0923	15.237	Hogging	328.31E-6	2.2033	**0.025296**	26481.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)		2	8.0923	15.237	Hogging	328.31E-6	2.2033	0.025296	**26481.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		1	0.0	8.0923	Sagging	328.31E-6	4.4122	0.0033587	-	**23647.**	0 (Negligible)
AH	Maximum Slope		3	1.8229	3.7488	Hogging	**299.89E-6**	2.7027	0.013384	166750.	-	0 (Negligible)
	Maximum Settlement		4	3.7488	6.3378	Sagging	299.89E-6	**3.4326**	737.18E-6	-	36727.	0 (Negligible)
	Max. Tensile Strain		1	0.0	0.82876	Sagging	288.17E-6	1.8566	**0.021492**	-	224530.	0 (Negligible)
	Min. Radius of Curvature (Hogging)		3	1.8229	3.7488	Hogging	299.89E-6	2.7027	0.013384	**166750.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		4	3.7488	6.3378	Sagging	299.89E-6	3.4326	737.18E-6	-	**36727.**	0 (Negligible)
AI	Maximum Slope	Sub #	1	0.0	3.5776	Sagging	**348.31E-6**	3.4329	0.019910	-	22247.	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	3.5776	Sagging	348.31E-6	**3.4329**	0.019910	-	22247.	0 (Negligible)
	Max. Tensile Strain	Sub #	2	3.5776	4.8498	Hogging	348.31E-6	2.2854	**0.028721**	101550.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)	Sub #	2	3.5776	4.8498	Hogging	348.31E-6	2.2854	0.028721	**101550.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)	Sub #	1	0.0	3.5776	Sagging	348.31E-6	3.4329	0.019910	-	**22247.**	0 (Negligible)
AJ	Maximum Slope	Sub #	2	1.2425	3.4033	Hogging	**545.62E-6**	2.3013	0.0059131	9468.9	-	0 (Negligible)
	Maximum Settlement	Sub #	6	8.2453	8.9667	Sagging	3.8327E-6	**2.6269**	0.0037474	-	1.2764E+6	0 (Negligible)
	Max. Tensile Strain	Sub #	3	3.4033	5.9528	Sagging	545.62E-6	2.6190	**0.0092667**	-	6740.3	0 (Negligible)
	Min. Radius of Curvature (Hogging)	Sub #	2	1.2425	3.4033	Hogging	545.62E-6	2.3013	0.0059131	**9468.9**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)	Sub #	3	3.4033	5.9528	Sagging	545.62E-6	2.6190	0.0092667	-	**6740.3**	0 (Negligible)
AK	Maximum Slope	Sub #	1	0.0	2.1928	Hogging	**630.99E-6**	3.9565	0.064841	23704.	-	1 (Very Slight)
	Maximum Settlement	Sub #	2	2.1928	4.9487	Sagging	630.99E-6	**5.5773**	0.064540	-	12210.	1 (Very Slight)
	Max. Tensile Strain	Sub #	1	0.0	2.1928	Hogging	630.99E-6	3.9565	**0.064841**	23704.	-	1 (Very Slight)
	Min. Radius of Curvature (Hogging)	Sub #	1	0.0	2.1928	Hogging	630.99E-6	3.9565	0.064841	**23704.**	-	1 (Very Slight)
	Min. Radius of Curvature (Sagging)	Sub #	2	2.1928	4.9487	Sagging	630.99E-6	5.5773	0.064540	-	**12210.**	1 (Very Slight)
AL	Maximum Slope	Sub #	1	0.0	4.7371	Hogging	**126.14E-6**	6.0410	0.0030249	54363.	-	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	4.7371	Hogging	126.14E-6	**6.0410**	0.0030249	54363.	-	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	4.7371	Hogging	126.14E-6	6.0410	**0.0030249**	54363.	-	0 (Negligible)
	Min. Radius of Curvature	Sub #	1	0.0	4.7371	Hogging	126.14E-6	6.0410	0.0030249	**54363.**	-	0 (Negligible)

Structure Name	Parameter	Critical Sub-Structure	Critical Segment	Start [m]	End [m]	Curvature	Maximum Slope	Maximum Settlement [mm]	Max. Tensile Strain [%]	Min. Radius of Curvature (Hogging) [m]	Min. Radius of Curvature (Sagging) [m]	Damage Category
	(Hogging)											
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
AM	Maximum Slope	Sub #	1	0.0	2.7064	Sagging	**717.80E-6**	6.0411	0.074662	-	13108.	1 (Very Slight)
	Maximum Settlement	Sub #	1	0.0	2.7064	Sagging	717.80E-6	**6.0411**	0.074662	-	13108.	1 (Very Slight)
	Max. Tensile Strain	Sub #	1	0.0	2.7064	Sagging	717.80E-6	6.0411	**0.074662**	-	13108.	1 (Very Slight)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	1	0.0	2.7064	Sagging	717.80E-6	6.0411	0.074662	-	**13108.**	1 (Very Slight)
AN	Maximum Slope	Sub #	1	0.0	3.3367	Sagging	**687.07E-6**	4.3455	0.011085	-	889.99	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	3.3367	Sagging	687.07E-6	**4.3455**	0.011085	-	889.99	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	3.3367	Sagging	687.07E-6	4.3455	**0.011085**	-	889.99	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	1	0.0	3.3367	Sagging	687.07E-6	4.3455	0.011085	-	**889.99**	0 (Negligible)
AO	Maximum Slope	Sub #	1	0.0	0.86915	Hogging	**674.70E-6**	4.3534	0.072485	58107.	-	1 (Very Slight)
	Maximum Settlement	Sub #	2	0.86915	2.5169	Sagging	674.70E-6	**5.4489**	0.074851	-	30636.	1 (Very Slight)
	Max. Tensile Strain	Sub #	2	0.86915	2.5169	Sagging	674.70E-6	5.4489	**0.074851**	-	30636.	1 (Very Slight)
	Min. Radius of Curvature (Hogging)	Sub #	1	0.0	0.86915	Hogging	674.70E-6	4.3534	0.072485	**58107.**	-	1 (Very Slight)
	Min. Radius of Curvature (Sagging)	Sub #	2	0.86915	2.5169	Sagging	674.70E-6	5.4489	0.074851	-	**30636.**	1 (Very Slight)
AP	Maximum Slope	Sub #	1	0.0	4.4543	Sagging	**866.23E-6**	5.9061	0.013862	-	1002.5	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	4.4543	Sagging	866.23E-6	**5.9061**	0.013862	-	1002.5	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	4.4543	Sagging	866.23E-6	5.9061	**0.013862**	-	1002.5	0 (Negligible)
	Min. Radius of Curvature (Hogging)		-	-	-	-	-	-	-	-	-	-
	Min. Radius of Curvature (Sagging)	Sub #	1	0.0	4.4543	Sagging	866.23E-6	5.9061	0.013862	-	**1002.5**	0 (Negligible)
AQ	Maximum Slope	Sub #	1	0.0	4.9487	Hogging	**578.44E-6**	4.4806	0.042635	17977.	-	0 (Negligible)
	Maximum Settlement	Sub #	1	0.0	4.9487	Hogging	578.44E-6	**4.4806**	0.042635	17977.	-	0 (Negligible)
	Max. Tensile Strain	Sub #	1	0.0	4.9487	Hogging	578.44E-6	4.4806	**0.042635**	17977.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)	Sub #	1	0.0	4.9487	Hogging	578.44E-6	4.4806	0.042635	**17977.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
AR	Maximum Slope	Sub #	1	0.0	8.4707	Hogging	**740.36E-6**	4.3030	0.068339	12142.	-	1 (Very Slight)
	Maximum Settlement	Sub #	1	0.0	8.4707	Hogging	740.36E-6	**4.3030**	0.068339	12142.	-	1 (Very Slight)
	Max. Tensile Strain	Sub #	1	0.0	8.4707	Hogging	740.36E-6	4.3030	**0.068339**	12142.	-	1 (Very Slight)
	Min. Radius of Curvature (Hogging)	Sub #	1	0.0	8.4707	Hogging	740.36E-6	4.3030	0.068339	**12142.**	-	1 (Very Slight)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
AS	Maximum Slope	Sub #	1	1.8137	8.1605	Hogging	**541.59E-6**	2.6279	0.048147	13122.	-	0 (Negligible)
	Maximum Settlement	Sub #	1	1.8137	8.1605	Hogging	541.59E-6	**2.6279**	0.048147	13122.	-	0 (Negligible)
	Max. Tensile Strain	Sub #	1	1.8137	8.1605	Hogging	541.59E-6	2.6279	**0.048147**	13122.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)	Sub #	1	1.8137	8.1605	Hogging	541.59E-6	2.6279	0.048147	**13122.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		-	-	-	-	-	-	-	-	-	-
AT	Maximum Slope	Sub #	2	7.2491	11.076	Sagging	**256.76E-6**	2.5287	0.0064509	-	46211.	0 (Negligible)
	Maximum Settlement	Sub #	2	7.2491	11.076	Sagging	256.76E-6	**2.5287**	0.0064509	-	46211.	0 (Negligible)
	Max. Tensile Strain	Sub #	1	1.8461	7.2491	Hogging	254.91E-6	1.6046	**0.016000**	75494.	-	0 (Negligible)
	Min. Radius of Curvature (Hogging)	Sub #	1	1.8461	7.2491	Hogging	254.91E-6	1.6046	0.016000	**75494.**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)	Sub #	2	7.2491	11.076	Sagging	256.76E-6	2.5287	0.0064509	-	**46211.**	0 (Negligible)
AU	Maximum Slope		1	0.0	4.5849	Sagging	**765.06E-6**	7.2961	0.13869	-	2792.5	2 (Slight)
	Maximum Settlement		1	0.0	4.5849	Sagging	765.06E-6	**7.2961**	0.13869	-	2792.5	2 (Slight)
	Max. Tensile Strain		1	0.0	4.5849	Sagging	765.06E-6	7.2961	**0.13869**	-	2792.5	2 (Slight)
	Min. Radius of Curvature (Hogging)		2	4.5849	7.1103	Hogging	759.55E-6	4.7376	0.10184	**22146.**	-	2 (Slight)
	Min. Radius of Curvature (Sagging)		1	0.0	4.5849	Sagging	765.06E-6	7.2961	0.13869	-	**2792.5**	2 (Slight)
AV	Maximum Slope		2	3.6879	6.0934	Sagging	**791.04E-6**	2.8589	0.011730	-	4179.3	0 (Negligible)
	Maximum Settlement		1	0.0	3.6879	Hogging	3.7760E-6	**2.8727**	11.909E-6	51.727E+6	-	0 (Negligible)
	Max. Tensile Strain		2	3.6879	6.0934	Sagging	791.04E-6	2.8589	**0.011730**	-	4179.3	0 (Negligible)
	Min. Radius of Curvature (Hogging)		3	6.0934	8.1927	Hogging	791.04E-6	2.4078	0.0081113	**5942.8**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		2	3.6879	6.0934	Sagging	791.04E-6	2.8589	0.011730	-	**4179.3**	0 (Negligible)
AW	Maximum Slope		2	0.43048	5.7983	Hogging	**0.0011142**	5.2325	0.041868	9337.1	-	0 (Negligible)
	Maximum Settlement		3	5.7983	11.321	Sagging	0.0011142	**7.7676**	0.081895	-	1690.6	2 (Slight)
	Max. Tensile Strain		3	5.7983	11.321	Sagging	0.0011142	7.7676	**0.081895**	-	1690.6	2 (Slight)
	Min. Radius of Curvature (Hogging)		2	0.43048	5.7983	Hogging	0.0011142	5.2325	0.041868	**9337.1**	-	0 (Negligible)
	Min. Radius of Curvature (Sagging)		3	5.7983	11.321	Sagging	0.0011142	7.7676	0.081895	-	**1690.6**	2 (Slight)

Structure Name	Parameter	Critical Sub-Structure	Critical Segment	Start	End	Curvature	Maximum Slope	Maximum Settlement	Max. Tensile Strain	Min. Radius of Curvature (Hogging)	Min. Radius of Curvature (Sagging)	Damage Category
				[m]	[m]			[mm]	[%]	[m]	[m]	

Specific Building Damage Results - All Combined Segments

Structure: A | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: B | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: C | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: D | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: E | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: F | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: G | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: H | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: I | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: J | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature	Deflection Ratio	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]		[%]	[%]	[%]	

No structures have segments combined.

Structure: K | Sub-structure:

Vertical	Combined	Start	Length	Curvature	Deflection	Average	Max.	Damage Category

Offset from Line for Vertical Movement Calculations [m]	Segment [m]	[m]	Ratio [%]	Horizontal Strain [%]	Tensile Strain [%]

No structures have segments combined.

Structure: L | Sub-structure:

Offset from Line for Vertical Movement Calculations [m]	Vertical Segment [m]	Combined Start [m]	Length Ratio [%]	Curvature	Deflection	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: M | Sub-structure:

Offset from Line for Vertical Movement Calculations [m]	Vertical Segment [m]	Combined Start [m]	Length Ratio [%]	Curvature	Deflection	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: N | Sub-structure:

Offset from Line for Vertical Movement Calculations [m]	Vertical Segment [m]	Combined Start [m]	Length Ratio [%]	Curvature	Deflection	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: O | Sub-structure:

Offset from Line for Vertical Movement Calculations [m]	Vertical Segment [m]	Combined Start [m]	Length Ratio [%]	Curvature	Deflection	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: P | Sub-structure: Sub #

Offset from Line for Vertical Movement Calculations [m]	Vertical Segment [m]	Combined Start [m]	Length Ratio [%]	Curvature	Deflection	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: Q | Sub-structure:

Offset from Line for Vertical Movement Calculations [m]	Vertical Segment [m]	Combined Start [m]	Length Ratio [%]	Curvature	Deflection	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: R | Sub-structure:

Offset from Line for Vertical Movement Calculations [m]	Vertical Segment [m]	Combined Start [m]	Length Ratio [%]	Curvature	Deflection	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: S | Sub-structure:

Offset from Line for Vertical Movement Calculations [m]	Vertical Segment [m]	Combined Start [m]	Length Ratio [%]	Curvature	Deflection	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: T | Sub-structure:

Offset from Line for Vertical Movement Calculations [m]	Vertical Segment [m]	Combined Start [m]	Length Ratio [%]	Curvature	Deflection	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

No structures have segments combined.

Structure: U | Sub-structure:

Offset from Line for Vertical Movement Calculations [m]	Vertical Segment [m]	Combined Start [m]	Length Ratio [%]	Curvature	Deflection	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

Vertical Offset from Line for Vertical	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category

No structures have segments combined.

Structure: V | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: W | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: X | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: Y | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: Z | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AA | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AB | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AC | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AD | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AE | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AF | Sub-structure:

Vertical	Combined Segment	Start	Length	Curvature	Deflection	Average	Max.	Damage Category

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment [m]	[m]	Combined Ratio [%]	Start [%]	Length [%]	Curvature [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category
No structures have segments combined.										

Structure: AG | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment [m]	[m]	Combined Ratio [%]	Start [%]	Length [%]	Curvature [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category
No structures have segments combined.										

Structure: AH | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment [m]	[m]	Combined Ratio [%]	Start [%]	Length [%]	Curvature [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category
No structures have segments combined.										

Structure: AI | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment [m]	[m]	Combined Ratio [%]	Start [%]	Length [%]	Curvature [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category
No structures have segments combined.										

Structure: AJ | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment [m]	[m]	Combined Ratio [%]	Start [%]	Length [%]	Curvature [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category
No structures have segments combined.										

Structure: AK | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment [m]	[m]	Combined Ratio [%]	Start [%]	Length [%]	Curvature [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category
No structures have segments combined.										

Structure: AL | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment [m]	[m]	Combined Ratio [%]	Start [%]	Length [%]	Curvature [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category
No structures have segments combined.										

Structure: AM | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment [m]	[m]	Combined Ratio [%]	Start [%]	Length [%]	Curvature [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category
No structures have segments combined.										

Structure: AN | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment [m]	[m]	Combined Ratio [%]	Start [%]	Length [%]	Curvature [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category
No structures have segments combined.										

Structure: AO | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment [m]	[m]	Combined Ratio [%]	Start [%]	Length [%]	Curvature [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category
No structures have segments combined.										

Structure: AP | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations [m]	Segment [m]	[m]	Combined Ratio [%]	Start [%]	Length [%]	Curvature [%]	Deflection [%]	Average Horizontal Strain [%]	Max. Tensile Strain [%]	Damage Category

Vertical Offset from Line for Vertical	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AQ | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AR | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AS | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AT | Sub-structure: Sub #

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AU | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

No structures have segments combined.

Structure: AV | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

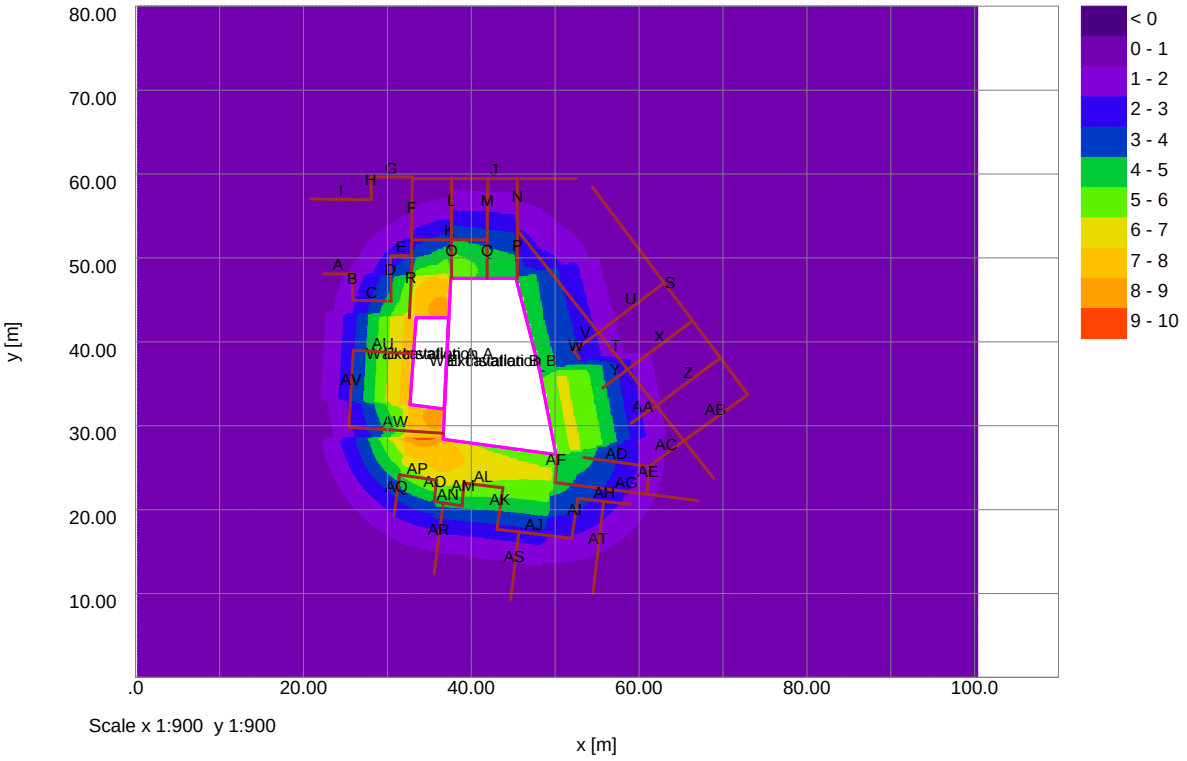
No structures have segments combined.

Structure: AW | Sub-structure:

Vertical Offset from Line for Vertical Movement Calculations	Combined Segment	Start	Length	Curvature Ratio	Deflection	Average Horizontal Strain	Max. Tensile Strain	Damage Category
[m]		[m]	[m]	[%]		[%]	[%]	

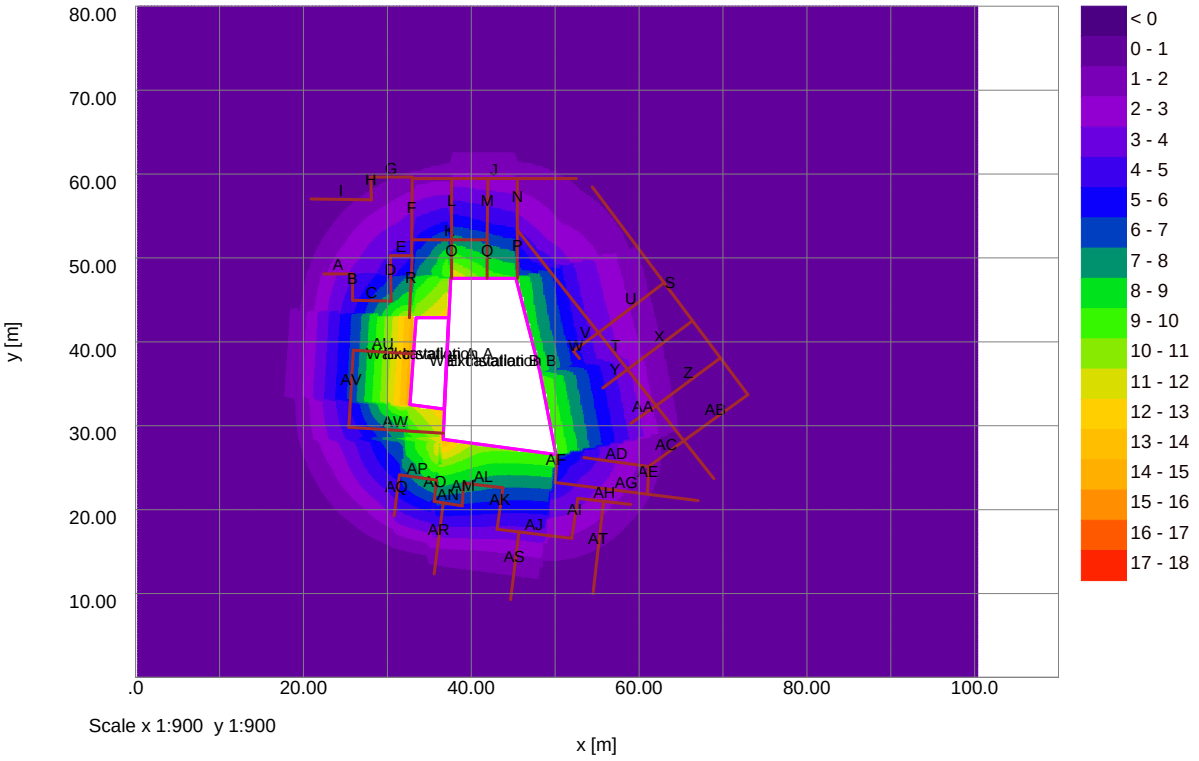
No structures have segments combined.

Vertical Settlement Contours: Grid 1 (level 0.000m) (Interval 1mm)

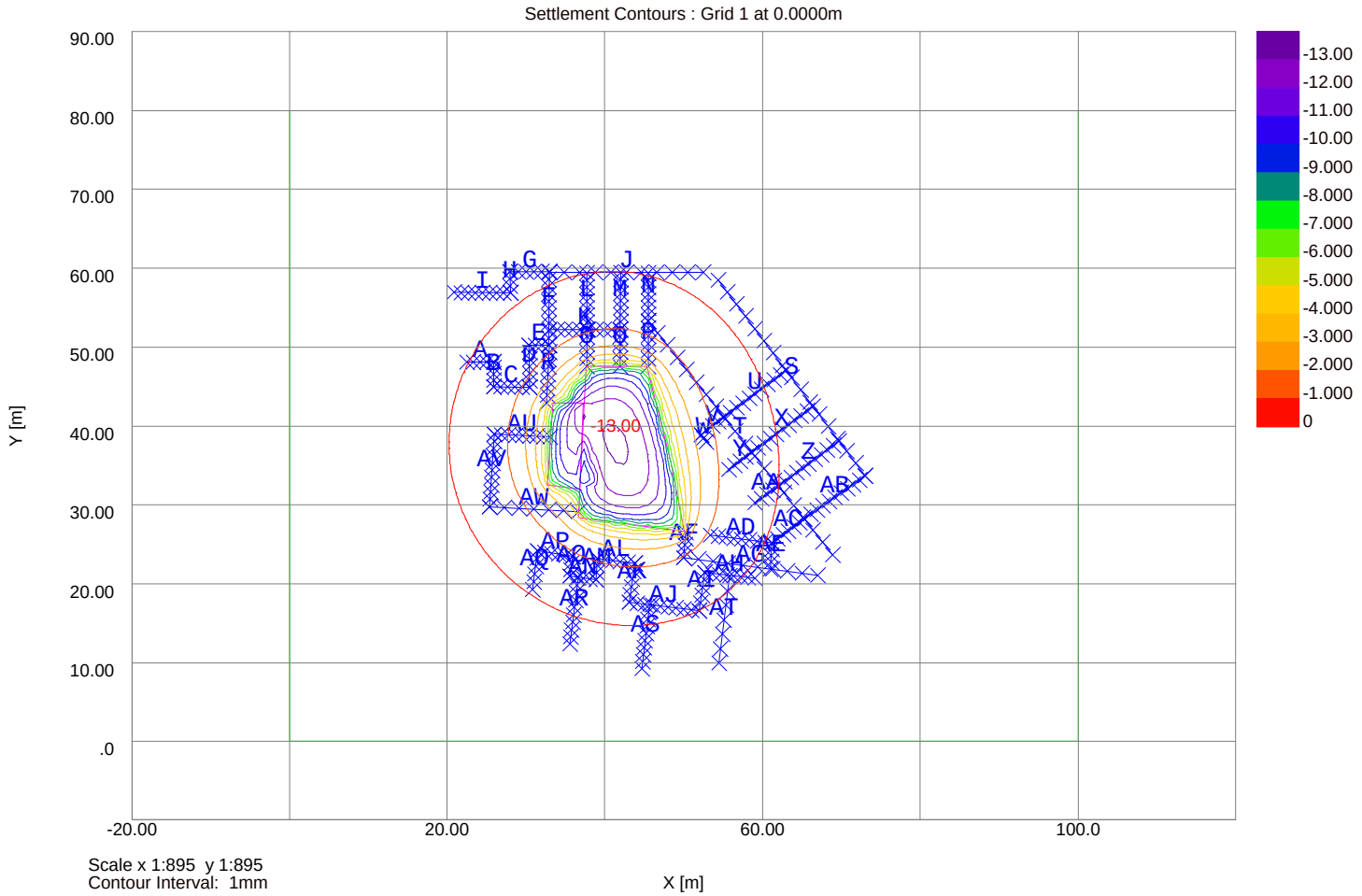


Scale x 1:900 y 1:900

Horizontal Displacement Contours: Grid 1 (level 0.000m) Interval 1mm



Scale x 1:900 y 1:900

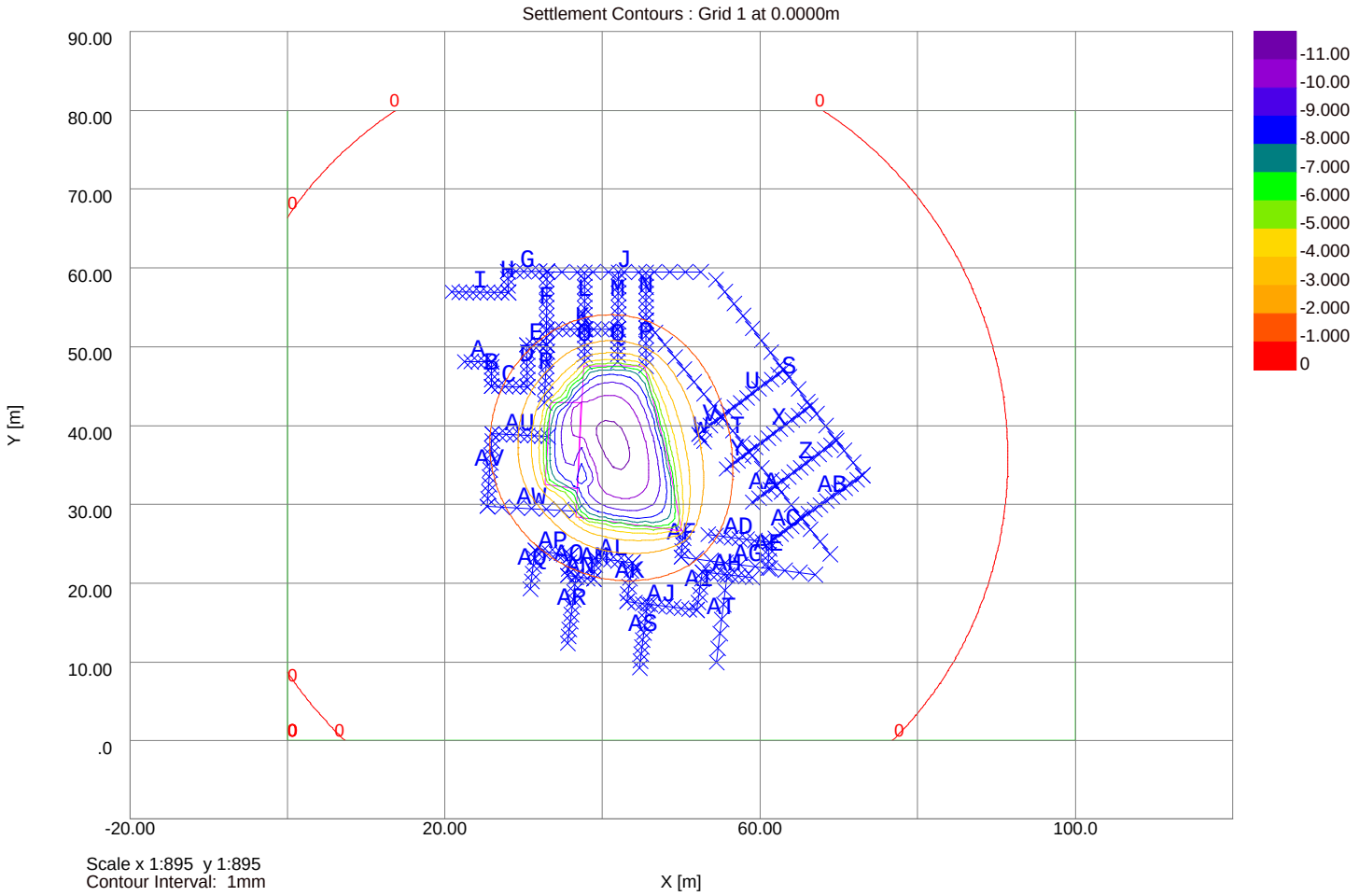

Settlement Contours : Grid 1 at 0.0000m
90.00
80.00
70.00
60.00
50.00
40.00
30.00
20.00
10.00
.0
Y [m]
-20.00
20.00
60.00
100.0
X [m]
-13.00
-12.00
-11.00
-10.00
-9.000
-8.000
-7.000
-6.000
-5.000
-4.000
-3.000
-2.000
-1.000
0
Scale x 1:895 y 1:895
Contour Interval: 1mm

Oasys

GEA LIMITED
(GEOTECHNICAL &ENV ASSOC)

Rear of 159-163 King's Cross Road, London WC1X 9BN
Total

Job No.	Sheet No.	Rev.
J16180		
Drg. Ref.		
Made by	Date	Checked



Ground Movement Assessment Summary

Project Number	J16180
Issue	4.0
Wall Reference	Q

Input parameters:

Wall Length, L =	4.60	m
Wall Height, H =	3.65	m
Proposed basement depth =	4.40	m
L / H =	1.26	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	1.70	mm
Total settlement =	0.00	mm
Change in vertical movement, Δ =	1.70	**mm**

Horizontal Displacement Behind Wall Prediction:

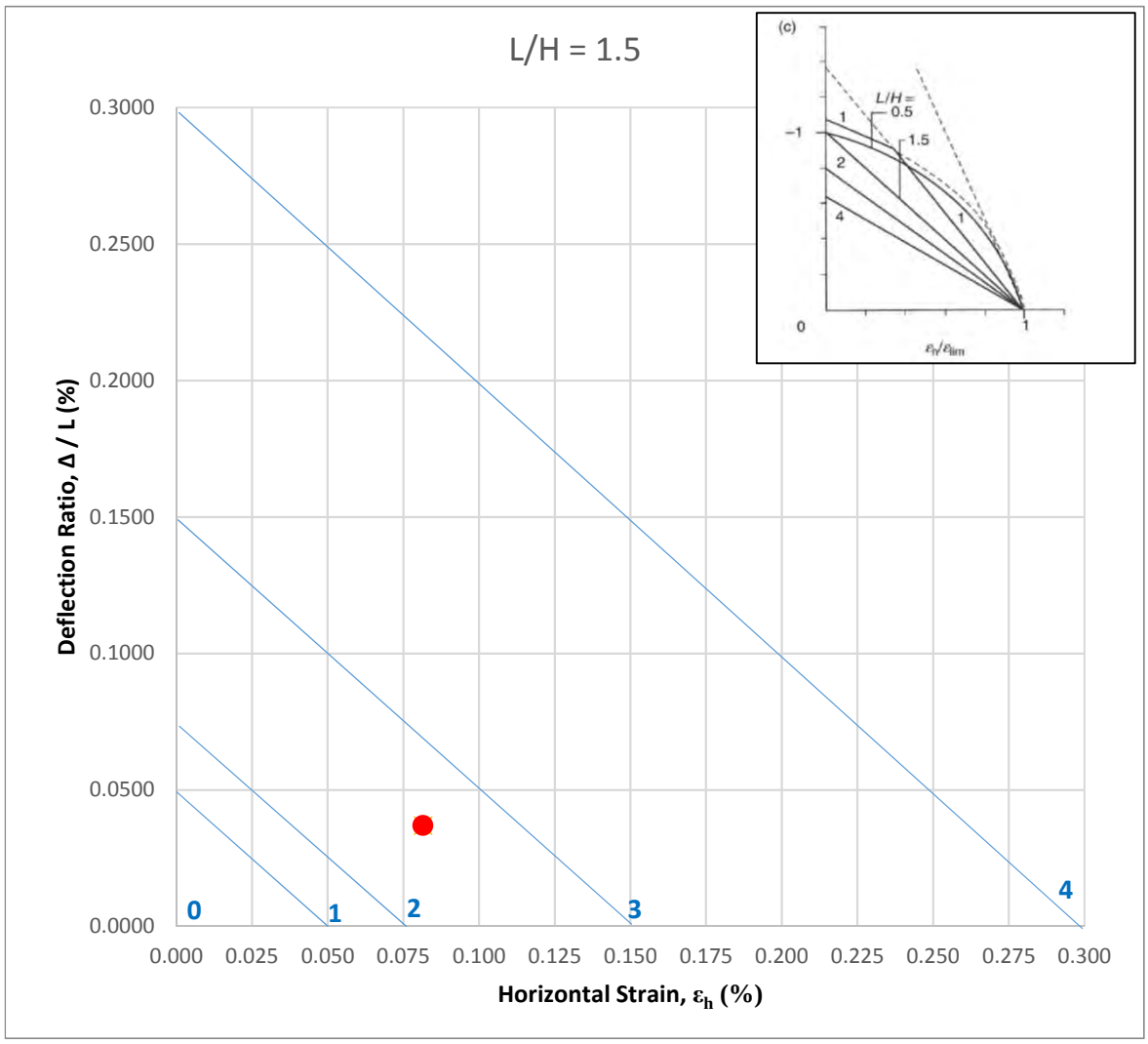
Change in horizontal movement, δ_h =	3.75	**mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 5 mm horizontal movement at wall

Building Damage Category = CATEGORY 2 - SLIGHT

Project Number	J16180
Revision	4.0
Wall Reference	Q

L / H = **1.26**



Wall Length, L =	4.6	m
Wall Height, H =	3.7	m
Change in horizontal movement, δ_h =	3.75	mm
Change in vertical movement, Δ =	1.70	mm

Horizontal Strain:

$$Horizontal\ Strain, \varepsilon_h = \frac{\delta_h \times 100}{L \times 1000}$$

ε_h = **0.0815**

Deflection Ratio:

$$Deflection\ Ratio = \frac{\Delta \times 100}{L \times 1000}$$

= **0.0370**

Ground Movement Assessment Summary

Geotechnical & Environmental Associates

Project Number	J16180
Issue	4.0
Wall Reference	O

Input parameters:

Wall Length, L =	4.60	m
Wall Height, H =	3.68	m
Proposed basement depth =	4.40	m
L / H =	1.25	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	1.30	mm
Total settlement =	0.00	mm
Change in vertical movement, Δ =	1.30	**mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h =	3.72	**mm**

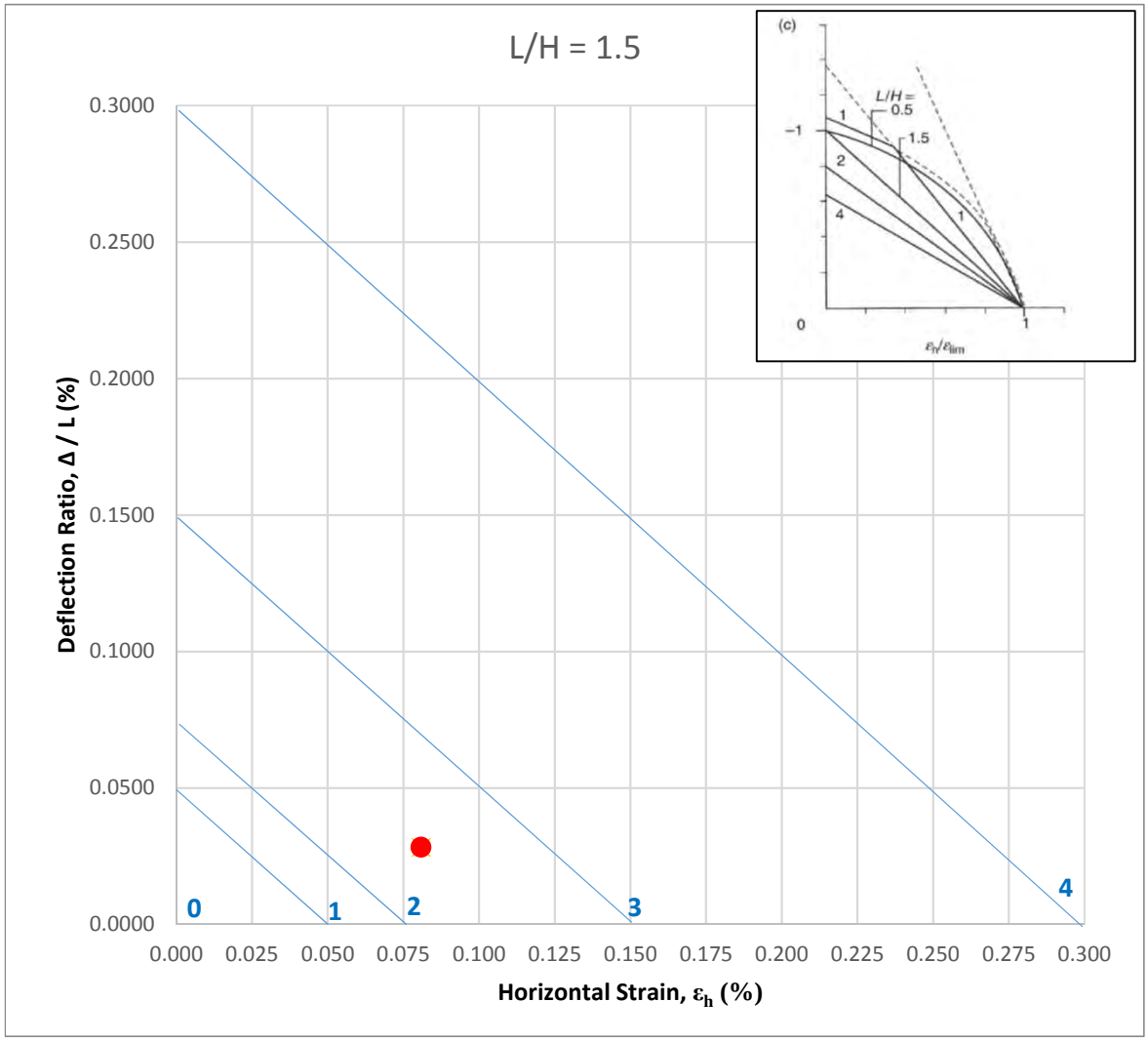
Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 5 mm horizontal movement at wall

Building Damage Category = CATEGORY 2 - SLIGHT

Project Number	J16180
Revision	4.0
Wall Reference	O

L / H = **1.25**

Geotechnical & Environmental Associates



Wall Length, L =	4.6	m
Wall Height, H =	3.7	m
Change in horizontal movement, δ_h =	3.72	mm
Change in vertical movement, Δ =	1.30	mm

Horizontal Strain:

$$Horizontal\ Strain, \varepsilon_h = \frac{\delta_h \times 100}{L \times 1000}$$

ε_h = **0.0809**

Deflection Ratio:

$$Deflection\ Ratio = \frac{\Delta \times 100}{L \times 1000}$$

= **0.0283**

Ground Movement Assessment Summary

Project Number	J16180
Issue	4.0
Wall Reference	M

Input parameters:

Wall Length, L =	7.30	m
Wall Height, H =	9.50	m
Proposed basement depth =	4.40	m
L / H =	0.77	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.26	mm
Total settlement =	0.00	mm
Change in vertical movement, Δ =	0.26	**mm**

Horizontal Displacement Behind Wall Prediction:

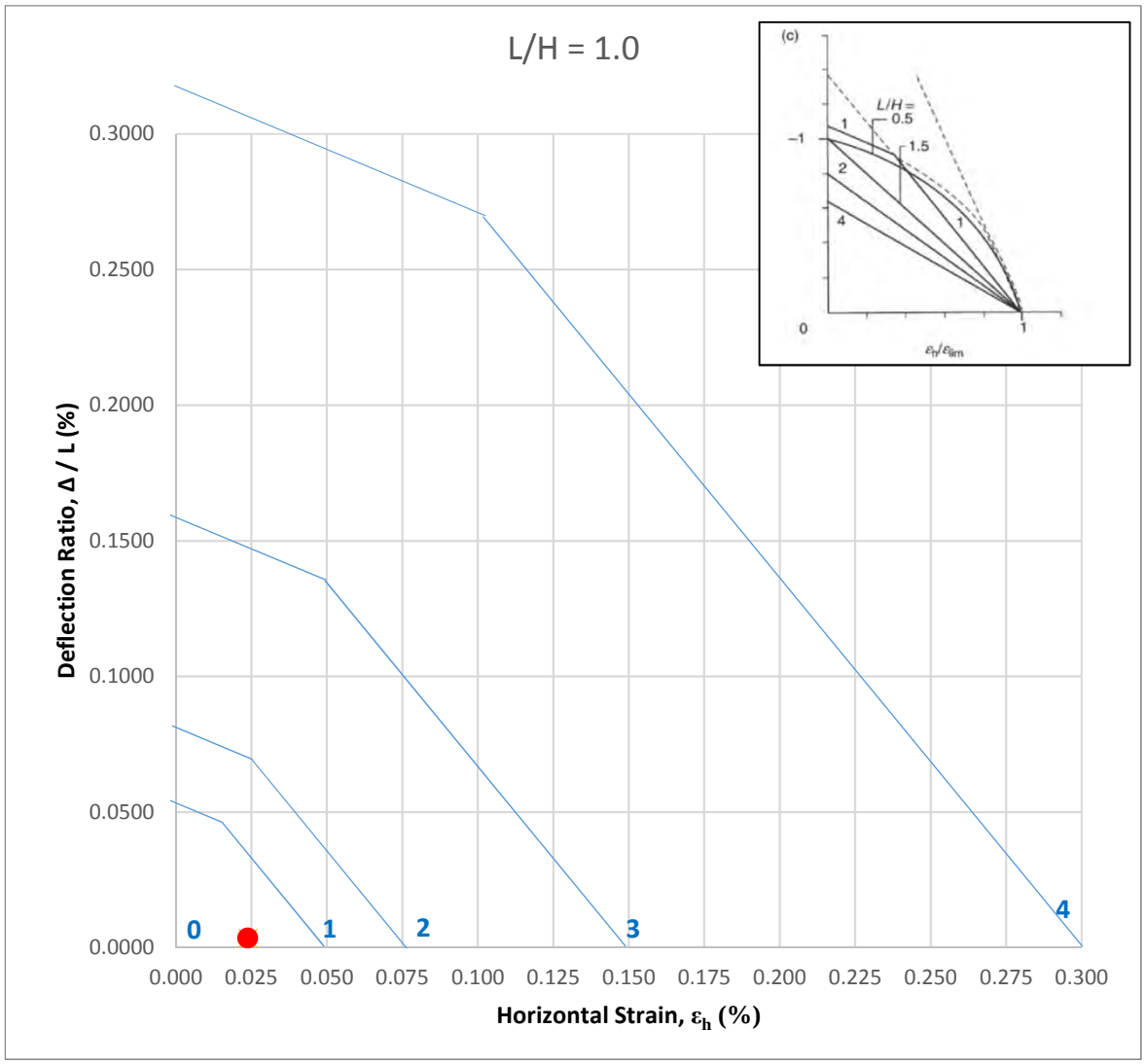
Change in horizontal movement, δ_h =	1.74	**mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 5 mm horizontal movement at wall

Building Damage Category = CATEGORY 0 - NEGLIGIBLE

Project Number	J16180
Issue	4.0
Wall Reference	M

L / H = **0.77**



Wall Length, L =	7.3	m
Wall Height, H =	9.5	m
Change in horizontal movement, δ_h =	1.74	mm
Change in vertical movement, Δ =	0.26	mm

Horizontal Strain:

$$Horizontal\ Strain, \varepsilon_h = \frac{\delta_{h\ \times 100}}{L\ \times 1000}$$

ε_h = **0.0238**

Deflection Ratio:

$$Deflection\ Ratio = \frac{\Delta \times 100}{L \times 1000}$$

= **0.0036**

Ground Movement Assessment Summary

Project Number	J16180
Issue	4.0
Wall Reference	L

Input parameters:

Wall Length, L =	7.20	m
Wall Height, H =	8.50	m
Proposed basement depth =	4.40	m
L / H =	0.85	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	0.20	mm
Total settlement =	0.00	mm
Change in vertical movement, Δ =	0.20	**mm**

Horizontal Displacement Behind Wall Prediction:

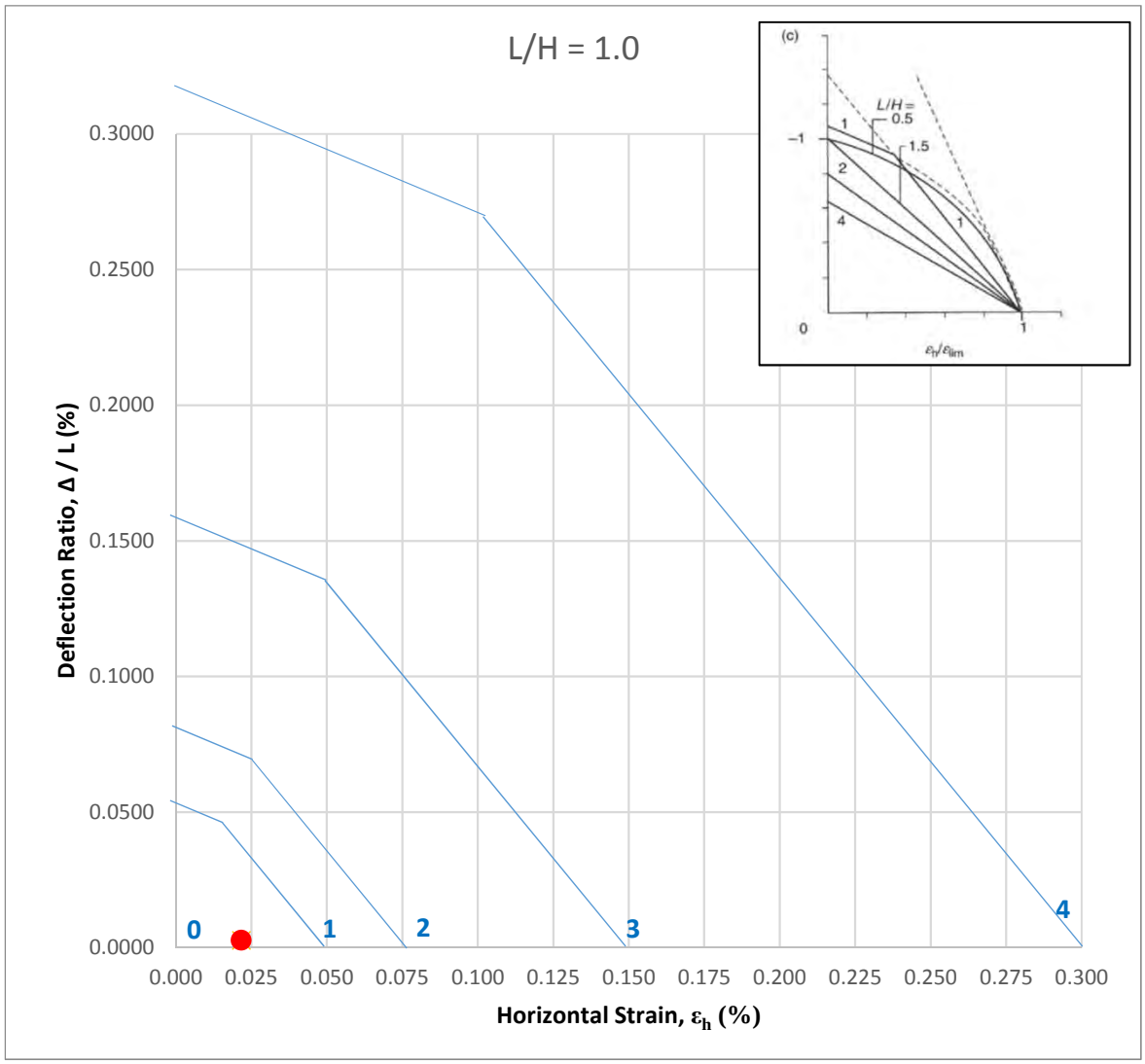
Change in horizontal movement, δ_h =	1.56	**mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 5 mm horizontal movement at wall

Building Damage Category = CATEGORY 0 - NEGLIGIBLE

Project Number	J16180
Issue	4.0
Wall Reference	L

L / H = **0.85**



Wall Length, L =	7.2	m
Wall Height, H =	8.5	m
Change in horizontal movement, δ_h =	1.56	mm
Change in vertical movement, Δ =	0.20	mm

Horizontal Strain:

$$Horizontal\ Strain, \varepsilon_h = \frac{\delta_{h\ \times 100}}{L\ \times 1000}$$

ε_h = **0.0217**

Deflection Ratio:

$$Deflection\ Ratio = \frac{\Delta \times 100}{L \times 1000}$$

= **0.0028**

Ground Movement Assessment Summary

Project Number	J16180
Issue	4.0
Wall Reference	AW

Input parameters:

Wall Length, L =	11.30	m
Wall Height, H =	4.60	m
Proposed basement depth =	4.40	m
L / H =	2.46	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	1.50	mm
Total settlement =	0.00	mm
Change in vertical movement, Δ =	1.50	**mm**

Horizontal Displacement Behind Wall Prediction:

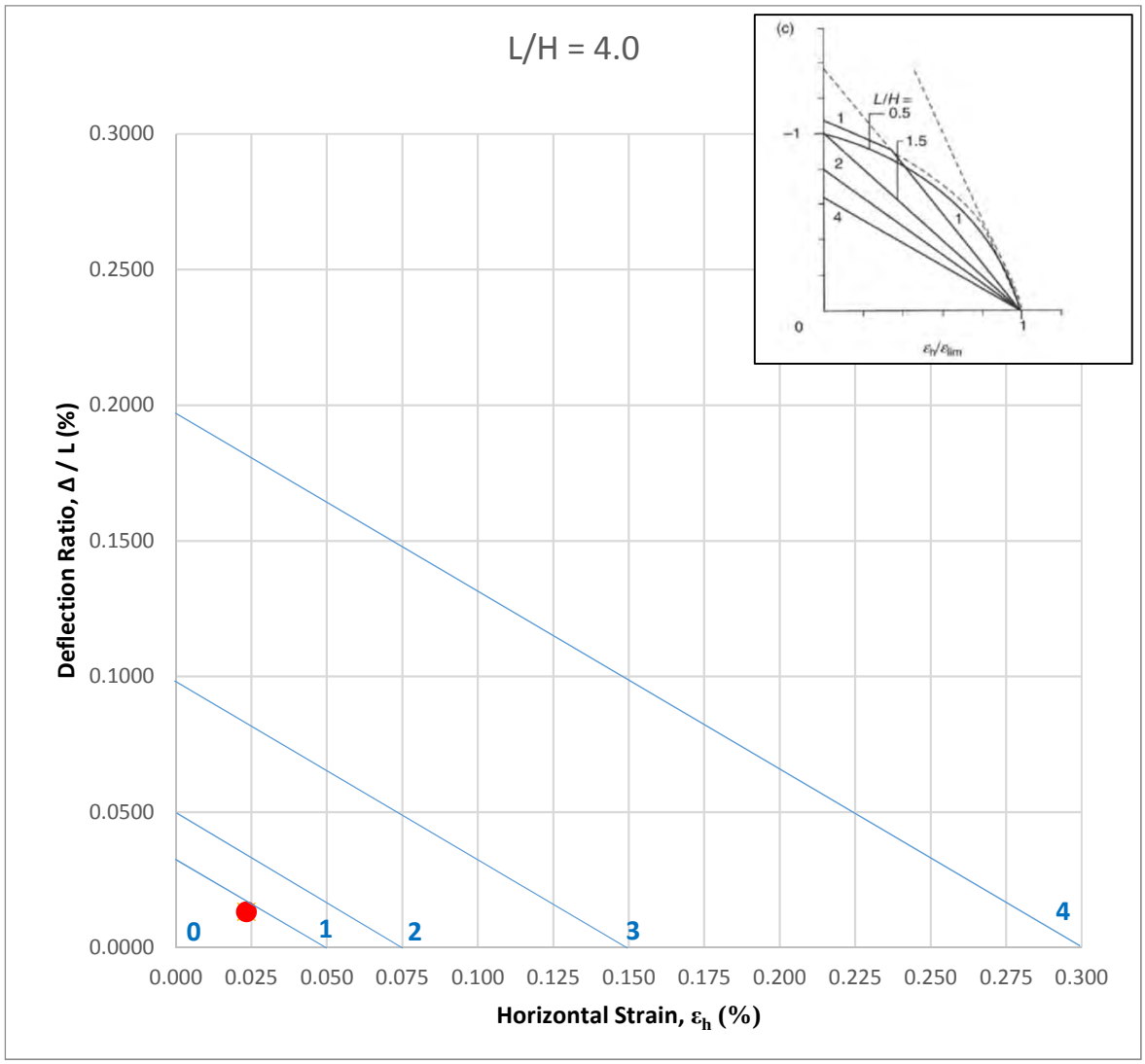
Change in horizontal movement, δ_h =	2.64	**mm**

Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 5 mm horizontal movement at wall

Building Damage Category = **CATEGORY 0 - NEGLIGIBLE**

Project Number	J16180
Revision	4.0
Wall Reference	AW

L / H = **2.46**



Wall Length, L =	11.3	m
Wall Height, H =	4.6	m
Change in horizontal movement, δ_h =	2.64	mm
Change in vertical movement, Δ =	1.50	mm

Horizontal Strain:

$$Horizontal\ Strain, \varepsilon_h = \frac{\delta_{h\ \times 100}}{L\ \times 1000}$$

ε_h = **0.0234**

Deflection Ratio:

$$Deflection\ Ratio = \frac{\Delta \times 100}{L \times 1000}$$

= **0.0133**

Ground Movement Assessment Summary

Project Number	J16180
Issue	4.0
Wall Reference	AU

Input parameters:

Wall Length, L =	7.10	m
Wall Height, H =	4.60	m
Proposed basement depth =	4.40	m
L / H =	1.54	

Vertical Displacement Behind Wall Prediction:

Differential total heave = Predicted from P-Disp	2.40	mm
Total settlement =	0.00	mm
Change in vertical movement, Δ =	2.40	**mm**

Horizontal Displacement Behind Wall Prediction:

Change in horizontal movement, δ_h =	3.36	**mm**

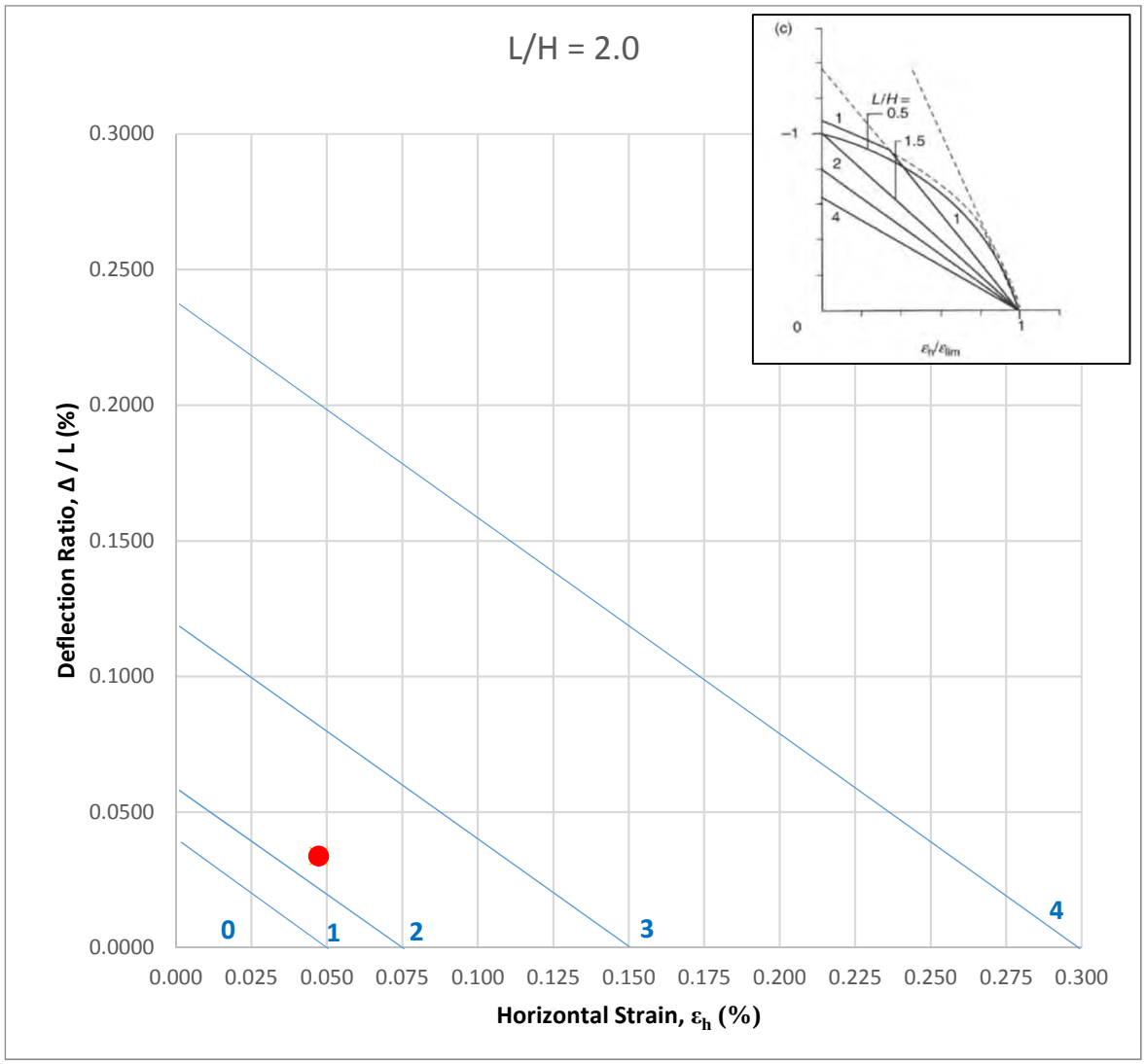
Predicted from CIRIA C580 (Fig 2.11a) assuming excavation in front of a wall in stiff clay and based on 5 mm horizontal movement at wall

Building Damage Category = CATEGORY 2 - SLIGHT

Project Number	J16180
Revision	4.0
Wall Reference	AU

L / H = **1.54**

Geotechnical & Environmental Associates



Wall Length, L =	7.1	m
Wall Height, H =	4.6	m
Change in horizontal movement, δ_h =	3.36	mm
Change in vertical movement, Δ =	2.40	mm

Horizontal Strain:

$$Horizontal\ Strain, \varepsilon_h = \frac{\delta_h \times 100}{L \times 1000}$$

ε_h = **0.0473**

Deflection Ratio:

$$Deflection\ Ratio = \frac{\Delta \times 100}{L \times 1000}$$

= **0.0338**