

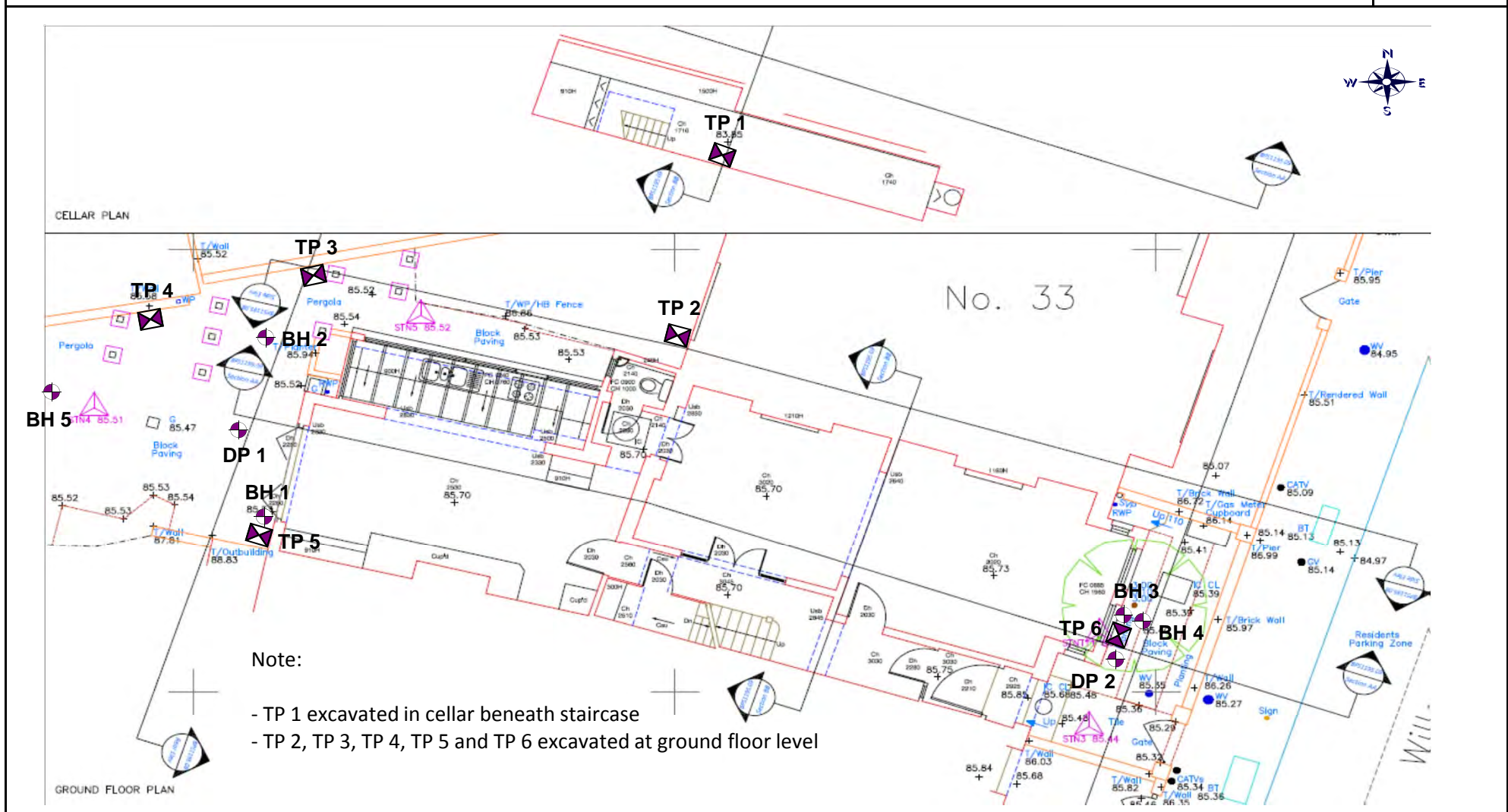
**Site** 31 Willoughby Road, London, NW3 1RT

**Job Number**  
J15315

**Client** Manuela Eleuteri

**Sheet**  
1 / 1

**Engineer** Richard Tant Associates



<b>Excavation Method</b> Drive-in Windowless Sampler	<b>Dimensions</b>	<b>Ground Level (mOD)</b> 85.55	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b>	<b>Dates</b> 13/01/2016	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
				85.45	0.10	Brick Paving		
				85.40	(0.15)	Made Ground (yellowish brown sand with gravel)		
				85.25	0.30	Concrete		
					(1.10)	Made Ground (brown to dark brown silty sandy clay with gravel and occasional brick fragments)		
1.20	D1			84.15	1.40	Made Ground (pale greenish grey and orange-brown slightly sandy silty clay with occasional gravel, carbonaceous material and brick fragments)		
1.50	D2				(0.70)			
1.90	D3			83.45	2.10	Made Ground (orange-brown slightly sandy silty clay with gravel; dark grey between 2.7-2.8m)		
2.25	D4				(1.00)			
2.75	D5		Slow Inflow(1) at 3.00m, not sealed.	82.45	3.10	Firm becoming stiff brown becoming brownish grey silty CLAY		∇1
3.50	D6			81.55	4.00	Terminated at 4.00m		

<b>Remarks</b> Groundwater monitoring standpipe installed to 3.1m Borehole completed from base of Trial Pit No 5	<b>Scale (approx)</b>	<b>Logged By</b>
	1:50	JS
	<b>Figure No.</b> J15315.BH1	

<b>Excavation Method</b> Drive-in Windowless Sampler	<b>Dimensions</b>	<b>Ground Level (mOD)</b> 85.50	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b>	<b>Dates</b> 13/01/2016	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
0.50	D1			85.40	0.10	Brick Paving		
				85.35	0.15	Made Ground (yellowish brown sand with gravel)		
				85.30	0.20	Concrete		
1.50	D2				(3.00)	Made Ground (brown, orange-brown and greenish grey silty sandy clay with gravel, rootlets and brick fragments)		▽1
2.50	D3							
3.35	D4		Slow Inflow(1) at 3.00m, not sealed.	82.30	3.20 (0.30)	Firm greenish grey to orange-brown & dark grey slightly silty CLAY with gravel and carbonaceous material		
				82.00	3.50 (0.20)	Firm mottled pale grey to bluish & orange-brown slightly silty CLAY with occasional gravel		
				81.80	3.70	Firm becoming stiff brown becoming brownish grey silty CLAY		
4.50	D5				(1.30)			
				80.50	5.00	Terminated at 5.00m		

<b>Remarks</b> Groundwater monitoring standpipe installed to 4.0 m	<b>Scale (approx)</b>	<b>Logged By</b>
	1:50	JS
	<b>Figure No.</b> J15315.BH2	

<b>Excavation Method</b> Drive-in Windowless Sampler	<b>Dimensions</b>	<b>Ground Level (mOD)</b> 85.40	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b>	<b>Dates</b> 13/01/2016	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
2.00	D1			83.70	(1.70)	Made Ground (brown to dark brown sandy silty clay with gravel, ash, charcoal, rootlets and brick fragments)		
					(0.70)	Made Ground (orange-brown & grey mottled slightly silty clay with rare brick fragments)		
3.00	D2			83.00	(1.35)	Firm greenish grey and orange-brown slightly silty CLAY with carbonaceous material and gravel		
4.00-4.50	D3			81.65	(3.75)	Firm becoming stiff pale orange-brown becoming brownish grey slightly silty CLAY		
					(0.75)	Terminated at 4.50m		
				80.90	4.50			

<b>Remarks</b> Taken from base of TP6 Groundwater not encountered Groundwater monitoring standpipe installed at 3.0m	<b>Scale (approx)</b>	<b>Logged By</b>
	1:50	JS
	<b>Figure No.</b> J15315.BH3	

<b>Excavation Method</b> Opendrive lined percussive sampler	<b>Dimensions</b> 110mm to 1.00m	<b>Ground Level (mOD)</b> 85.40	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b>	<b>Dates</b> 20/01/2016	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.00-1.45	SPT N=7		1,2/2,1,2,2	85.35 85.28	(0.05) 0.05 (0.05) 0.10 (0.05) 0.15 (1.55)	Paving Stone Made Ground (orange-brown sand) Concrete Made Ground (brown to orange brown mottled grey silty clay with gravel, brick fragments, charcoal, ash and roots)		
2.00-2.45	SPT N=6		0,0/1,2,1,2	83.70	1.70 (0.80)	Made Ground (grey and orange-brown mottled slightly silty clay with rare brick fragments and rootlets)		
3.00-3.45 3.00	SPT N=7 D1		0,0/1,2,2,2 Slow Inflow(1) at 3.30m, not sealed.	82.90	2.50 (1.00)	Firm pale orange-brown and greenish grey silty CLAY with occasional gravel and carbonaceous material; dark grey carbonaceous layers at 2.8 m to 3.0 m and 3.3 m to 3.4 m		
4.00-4.45 4.00	SPT N=7 D2		2,1/2,1,2,2	81.90 81.70	3.50 (0.20) 3.70	Firm pale orange-brown mottled grey slightly silty CLAY Firm becoming stiff pale orange-brown becoming brownish grey slightly silty CLAY with rare selenite crystals and occasional partings of silt and sand		
4.50	D3		2,1/2,1,2,2		(1.30)			
5.00-5.45	SPT N=10		2,1/2,2,3,3	80.40	5.00	Stiff dark brownish grey slightly silty CLAY with occasional partings of silt and sand; claystone encountered at 6.5 m to 6.7 m		
5.50	D4							
6.00-6.45	SPT N=14		2,2/2,2,3,7					
6.50	D5							
7.00-7.45	SPT N=13		2,3/2,3,4,4					
7.50	D6				(5.00)			
8.00-8.45	SPT N=13		2,2/3,3,3,4					
8.50	D7							
9.00-9.45	SPT N=13		2,3/3,3,4,3					
9.50	D8							
10.00-10.45	SPT N=11		2,2/1,3,3,4	75.40	10.00			

<b>Remarks</b> Groundwater monitoring standpipe installed at 5.0m. SPT N results potentially impacted by proximity to BH3 and the potential effects of water softening in the base of the borehole, such that the results are not considered to represent the true in-situ strength. The assessment of the strength for the natural soils is therefore based on a combination of the test results together with the field observations, which indicated a firm becoming stiff consistency, and not just the SPT 'N' results alone.	<b>Scale (approx)</b> 1:50	<b>Logged By</b> JS
	<b>Figure No.</b> J15315.BH4	

<b>Excavation Method</b> Opendrive percussive lined sampler	<b>Dimensions</b> 110mm to 1.00m	<b>Ground Level (mOD)</b> 85.50	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b>	<b>Dates</b> 11/07/2017	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
1.00-1.45	SPT(C) N=9	DRY	0,1/2,2,2,3	85.40	0.10	Brick Paving		
				85.35	0.15	Made Ground (yellowish brown sand)		
				85.30	0.20	Concrete		
2.00-2.45	SPT(C) N=8	DRY	1,1/2,2,2,2	83.30	2.20 (0.75)	Made Ground (brown silty slightly sandy clay with occasional gravel, ash and small brick fragments)		
						Made Ground (brown silty clay with rare brick fragments)		
3.00-3.45	SPT(C) N=8	DRY	0,0/0,3,2,3	82.55	2.95 (0.45)	Made Ground (greenish brown silty clay with very rare brick fragments)		
						Made Ground (greenish brown silty clay with very rare brick fragments)		
4.00-4.45	SPT N=12	DRY	2,2/3,3,3,3	82.10	3.40 (2.05)	Firm becoming stiff brownish grey silty CLAY with relic root traces		
						Firm becoming stiff brownish grey silty CLAY with relic root traces		
5.00-5.45	SPT N=16	DRY	2,2/3,4,5,4	80.05	5.45	Complete at 5.45m		

<b>Remarks</b> Groundwater not encountered during drilling and borehole remained dry throughout an observation period of approximately 4 hours.	<b>Scale (approx)</b>	<b>Logged By</b>
	1:50	MP
	<b>Figure No.</b> j15315.BH5	

<b>Method</b> DPSH	<b>Cone Dimensions</b>	<b>Ground Level (mOD)</b> 85.50	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b>	<b>Dates</b> 11/07/2017	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)	Depth (m)	Blows for Depth Increment																
					0	1	2	3	4	5	6	7	8	9	10						
0.10-0.20	1		85.50	0.00																	
0.20-0.30	1																				
0.30-0.40	0																				
0.40-0.50	0																				
0.50-0.60	1		85.00	0.50																	
0.60-0.70	0																				
0.70-0.80	0																				
0.80-0.90	2																				
0.90-1.00	3																				
1.00-1.10	1		84.50	1.00																	
1.10-1.20	1																				
1.20-1.30	1																				
1.30-1.40	0																				
1.40-1.50	1																				
1.50-1.60	0		84.00	1.50																	
1.60-1.70	1																				
1.70-1.80	0																				
1.80-1.90	0																				
1.90-2.00	1																				
2.00-2.10	0		83.50	2.00																	
2.10-2.20	0																				
2.20-2.30	1																				
2.30-2.40	0																				
2.40-2.50	0		83.00	2.50																	
2.50-2.60	1																				
2.60-2.70	0																				
2.70-2.80	1																				
2.80-2.90	1																				
2.90-3.00	0		82.50	3.00																	
3.00-3.10	2																				
3.10-3.20	1																				
3.20-3.30	2																				
3.30-3.40	1																				
3.40-3.50	2		82.00	3.50																	
3.50-3.60	2																				
3.60-3.70	2																				
3.70-3.80	2																				
3.80-3.90	3																				
3.90-4.00	3		81.50	4.00																	
4.00-4.10	4																				
4.10-4.20	3																				
4.20-4.30	4																				
4.30-4.40	4																				
4.40-4.50	3		81.00	4.50																	
4.50-4.60	3																				
4.60-4.70	4																				
4.70-4.80	3																				
4.80-4.90	4		80.50	5.00																	
4.90-5.00	4																				
5.00-5.10	5																				
5.10-5.20	6		80.00	5.50																	
5.20-5.30	6																				
5.30-5.40	6																				
5.40-5.50	5																				
5.50-5.60	5																				
5.60-5.70	6		79.50	6.00																	
5.70-5.80	5																				
5.80-5.90	7																				
5.90-6.00	7		79.00	6.50																	
			78.50	7.00																	
			78.00	7.50																	
			77.50	8.00																	

**Remarks**

Groundwater not encountered  
Classification after Huntley (1990): Very Soft = <1; Soft = 1 to 2; Firm: 3 to 4; Stiff = 5 to 8; Very stiff = > 8

<b>Scale (approx)</b>	<b>Logged By</b>
1:40	MJD
<b>Figure No.</b>	
J15315.DP1	

<b>Method</b> Super Heavy Dynamic Probe (DPSH)	<b>Cone Dimensions</b>	<b>Ground Level (mOD)</b> 85.40	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b>	<b>Dates</b> 11/07/2017	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/1

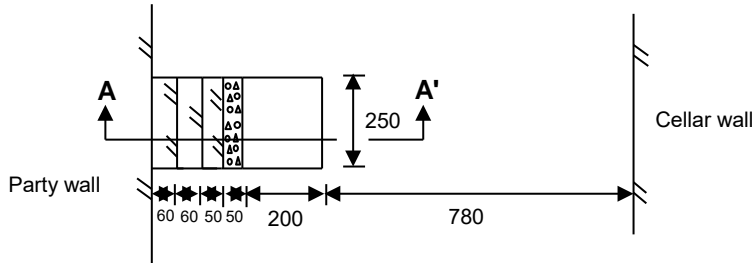
Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)	Depth (m)	Blows for Depth Increment																
					0	1	2	3	4	5	6	7	8	9	10						
0.00-0.10	2		85.40	0.00																	
0.10-0.20	3																				
0.20-0.30	2																				
0.30-0.40	1																				
0.40-0.50	1																				
0.50-0.60	1		84.90	0.50																	
0.60-0.70	2																				
0.70-0.80	1																				
0.80-0.90	1																				
0.90-1.00	1																				
1.00-1.10	1		84.40	1.00																	
1.10-1.20	1																				
1.20-1.30	2																				
1.30-1.40	1																				
1.40-1.50	0																				
1.50-1.60	0		83.90	1.50																	
1.60-1.70	1																				
1.70-1.80	0																				
1.80-1.90	0																				
1.90-2.00	1		83.40	2.00																	
2.00-2.10	0																				
2.10-2.20	0																				
2.20-2.30	1																				
2.30-2.40	0		82.90	2.50																	
2.40-2.50	0																				
2.50-2.60	0																				
2.60-2.70	1																				
2.70-2.80	0																				
2.80-2.90	1		82.40	3.00																	
2.90-3.00	1																				
3.00-3.10	1																				
3.10-3.20	1																				
3.20-3.30	2																				
3.30-3.40	2																				
3.40-3.50	2		81.90	3.50																	
3.50-3.60	2																				
3.60-3.70	2																				
3.70-3.80	2																				
3.80-3.90	3																				
3.90-4.00	3		81.40	4.00																	
4.00-4.10	3																				
4.10-4.20	4																				
4.20-4.30	4																				
4.30-4.40	4																				
4.40-4.50	3		80.90	4.50																	
4.50-4.60	4																				
4.60-4.70	4																				
4.70-4.80	3																				
4.80-4.90	4		80.40	5.00																	
4.90-5.00	4																				
5.00-5.10	5																				
5.10-5.20	5		79.90	5.50																	
5.20-5.30	7																				
5.30-5.40	6																				
5.40-5.50	7		79.40	6.00																	
5.50-5.60	7																				
5.60-5.70	7																				
5.70-5.80	7		78.90	6.50																	
5.80-5.90	7																				
5.90-6.00	7		78.40	7.00																	
			77.90	7.50																	
			77.40	8.00																	

<b>Remarks</b> Groundwater not encountered Classification after Huntley (1990): Very Soft = <1; Soft = 1 to 2; Firm: 3 to 4; Stiff = 5 to 8; Very stiff = > 8	<b>Scale (approx)</b>	<b>Logged By</b>
	1:40	MJD
	<b>Figure No.</b> J15315.DP2	

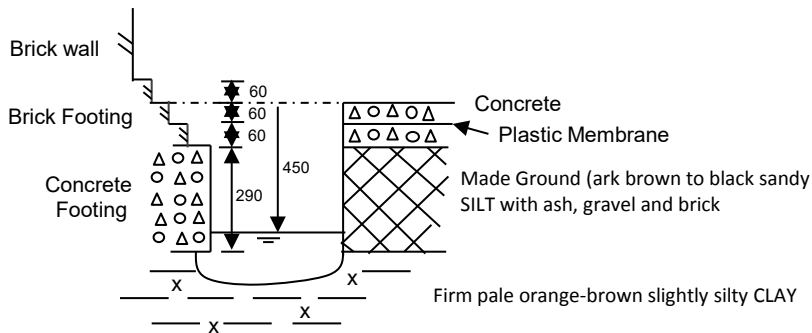


<b>Excavation Method</b> Manual	<b>Dimensions</b> 250 x 420 x 500	<b>Ground Level (mOD)</b> 83.85	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b> Ground Level	<b>Dates</b> 12/01/16 to 13/01/16	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/1

**PLAN**



**SECTION A - A'**

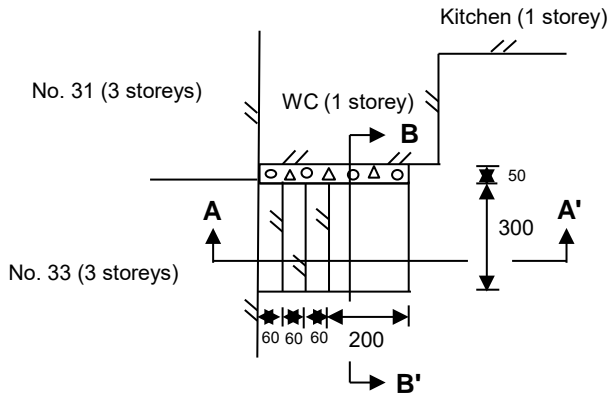


Remarks:  
All dimensions in millimetres  
Trial pit sides remained stable during excavation  
Groundwater encountered at a depth of 0.45 m

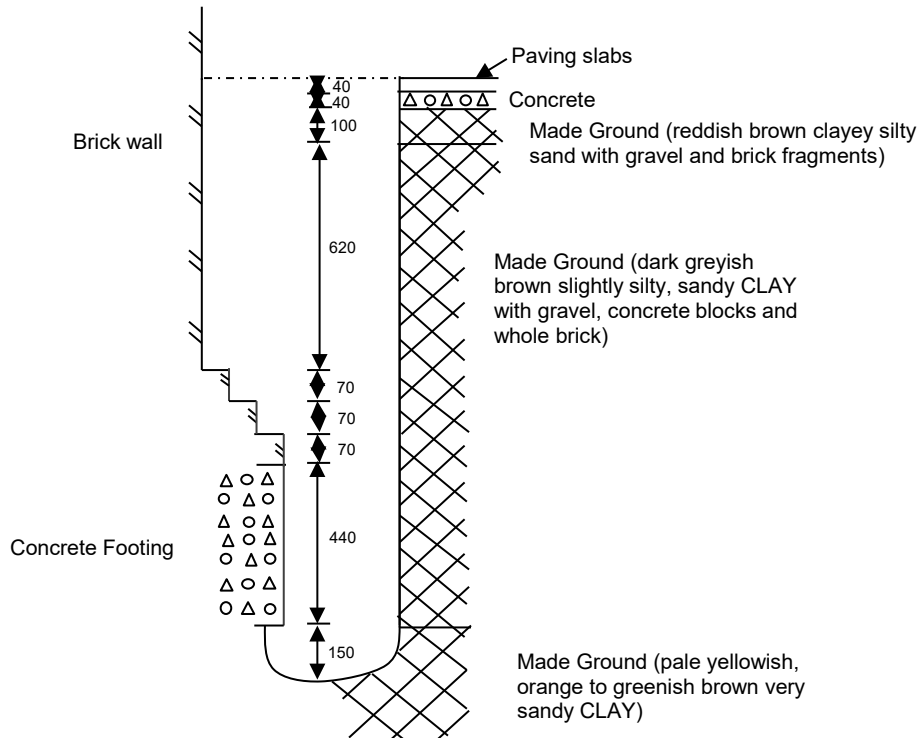
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<b>Excavation Method</b> Manual	<b>Dimensions</b> 350 x 380 x 1600	<b>Ground Level (mOD)</b> 85.50	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b> Ground Level	<b>Dates</b> 12/01/16 to 13/01/16	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/2

**PLAN**



**SECTION A - A'**

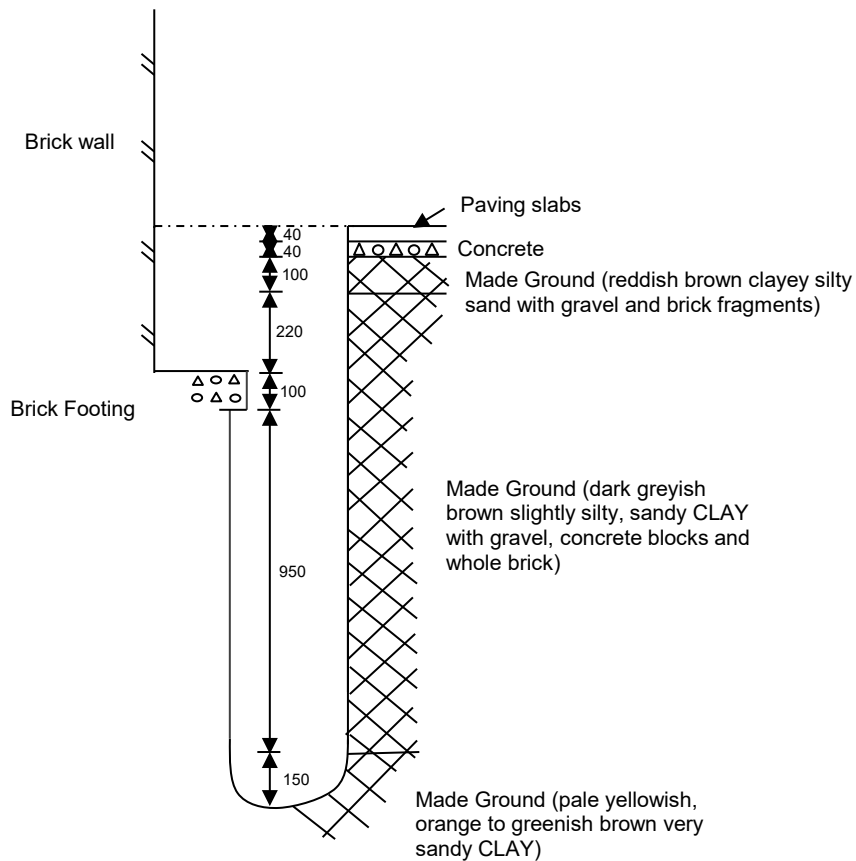


Remarks:  
All dimensions in millimetres  
Trial pit sides remained stable during excavation  
Groundwater not encountered

Scale:  
1:20  
Logged by:  
JS

<b>Excavation Method</b> Manual	<b>Dimensions</b> 350 x 380 x 1600	<b>Ground Level (mOD)</b> 85.50	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b> Ground Level	<b>Dates</b> 12/01/16 to 13/01/16	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 2/2

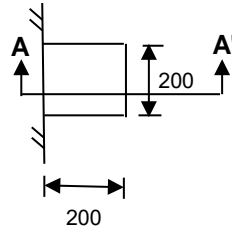
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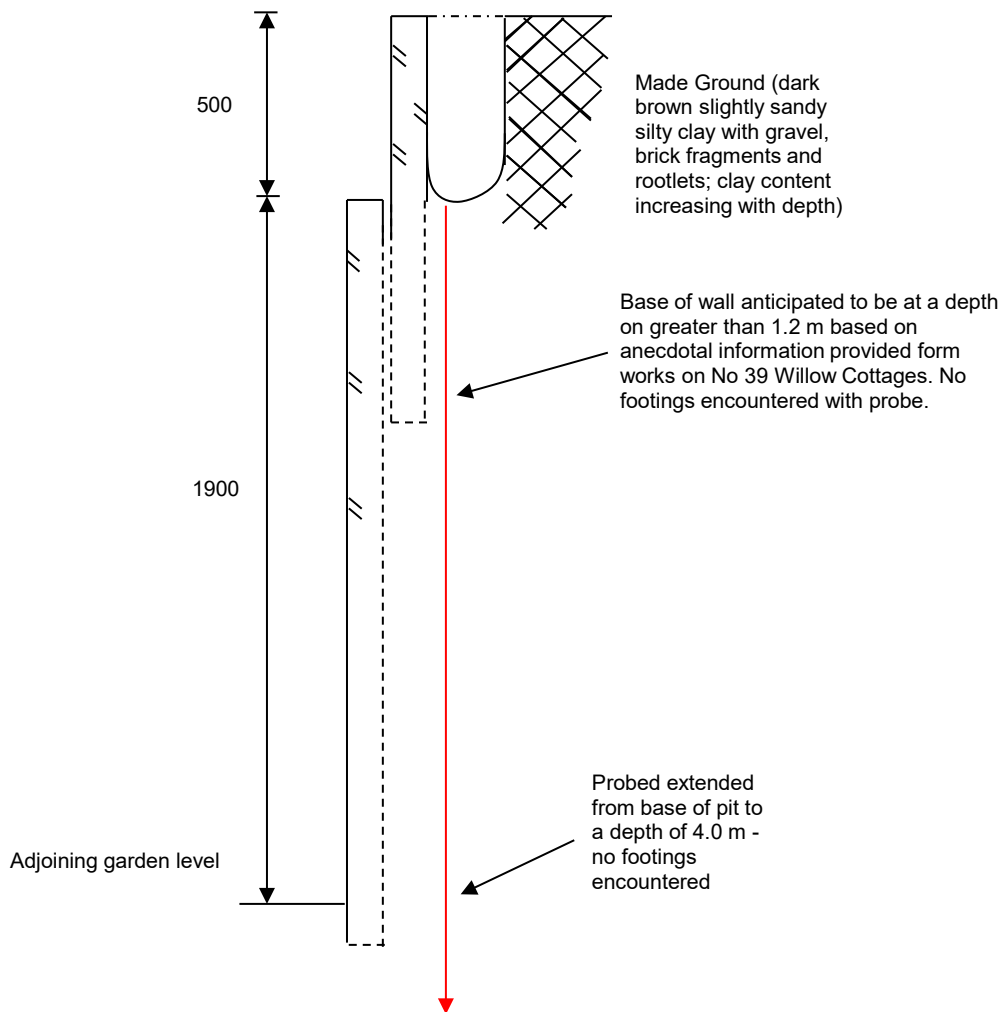
<b>Remarks:</b> All dimensions in millimetres Trial pit sides remained stable during excavation Groundwater not encountered	<b>Scale:</b> 1:20
	<b>Logged by:</b> JS

<b>Excavation Method</b> Manual	<b>Dimensions</b> 200 x 200 x 500	<b>Ground Level (mOD)</b> 85.50	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b> Ground Level	<b>Dates</b> 12/01/16 to 13/01/16	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/1

**PLAN**



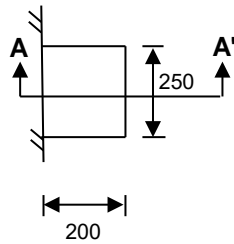
**SECTION A - A'**



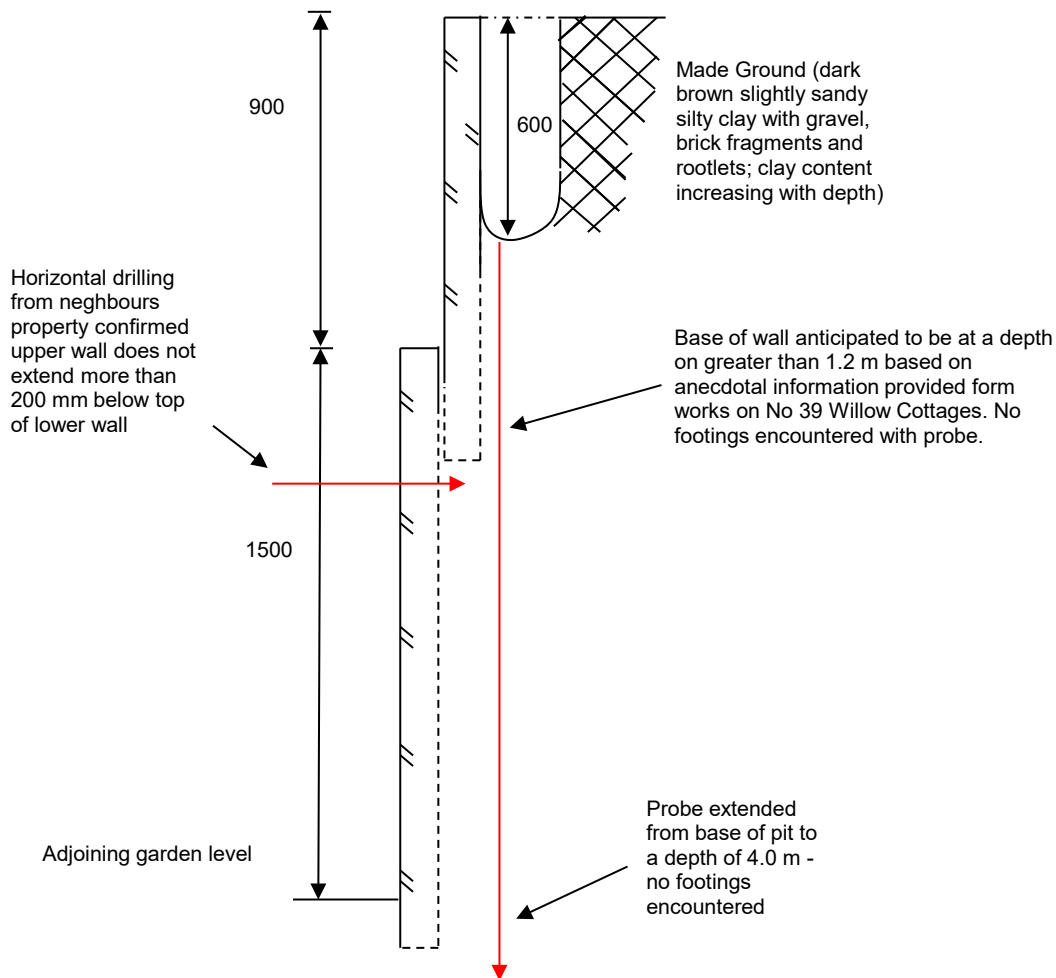
<b>Remarks:</b> All dimensions in millimetres Trial pit sides remained stable during excavation Groundwater not encountered	<b>Scale:</b> 1:20
	<b>Logged by:</b> JS

<b>Excavation Method</b> Manual	<b>Dimensions</b> 200 x 250 x 600	<b>Ground Level (mOD)</b> 85.50	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b> Ground Level	<b>Dates</b> 12/01/16 to 13/01/16	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/1

**PLAN**



**SECTION A - A'**

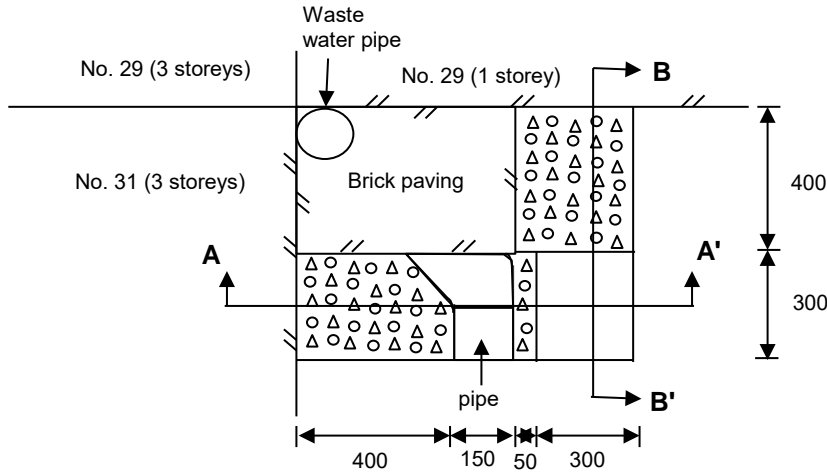


Remarks:  
All dimensions in millimetres  
Trial pit sides remained stable during excavation  
Groundwater not encountered

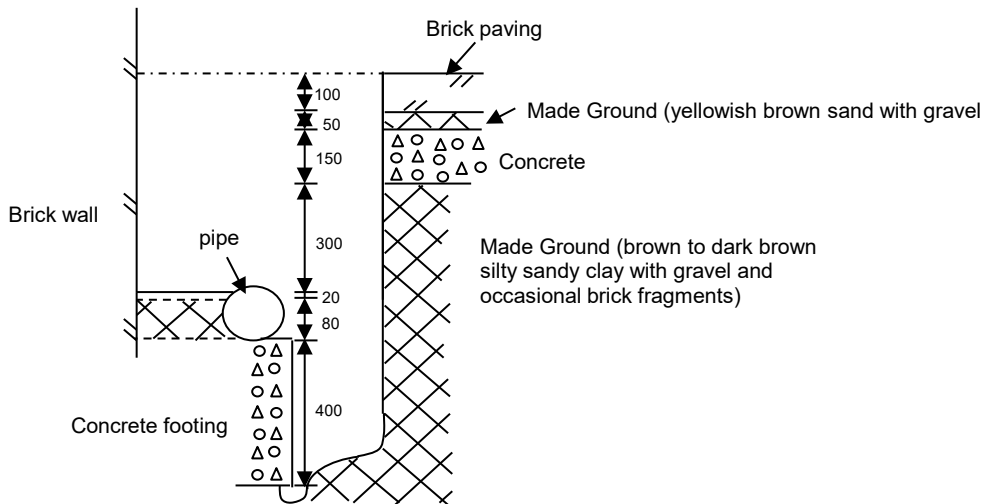
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1:20  
Logged by:  
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<b>Excavation Method</b> Manual	<b>Dimensions</b> 700 x 900 x 1200	<b>Ground Level (mOD)</b> 85.50	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b> Ground Level	<b>Dates</b> 12/01/16 to 13/01/16	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/2

**PLAN**



**SECTION A - A'**

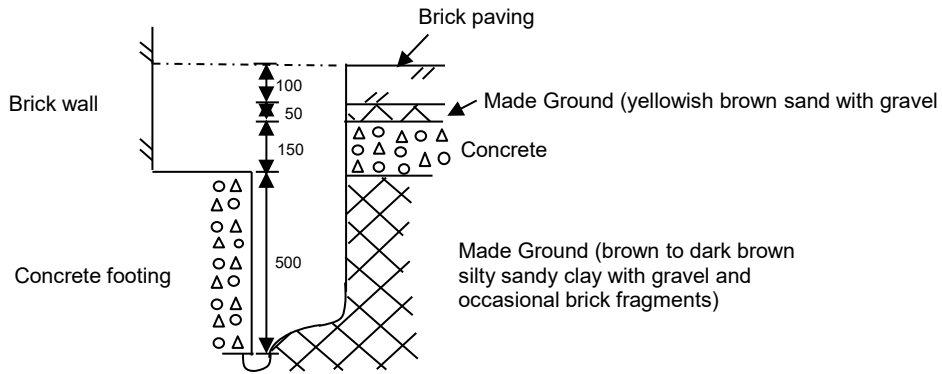


Remarks:  
All dimensions in millimetres  
Trial pit sides remained stable during excavation  
Groundwater not encountered

Scale:  
1:20  
Logged by:  
JS

<b>Excavation Method</b> Manual	<b>Dimensions</b> 700 x 900 x 1200	<b>Ground Level (mOD)</b> 85.50	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b> Ground Level	<b>Dates</b> 12/01/16 to 13/01/16	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 2/2

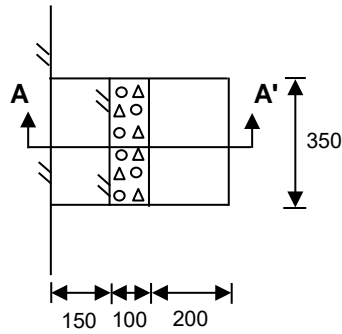
**SECTION B - B'**



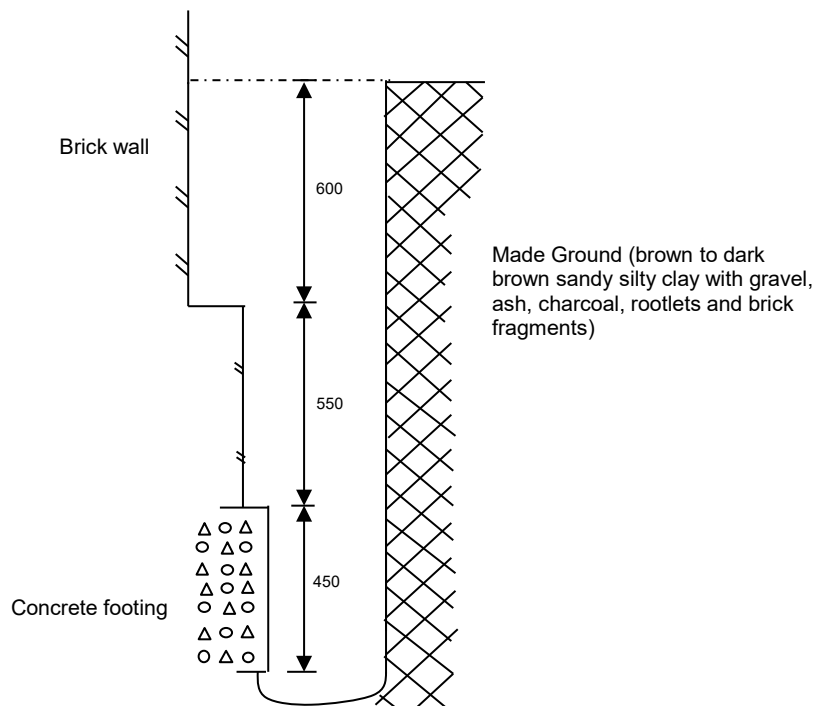
<b>Remarks:</b> All dimensions in millimetres Trial pit sides remained stable during excavation Groundwater not encountered	<b>Scale:</b> 1:20
	<b>Logged by:</b> JS

<b>Excavation Method</b> Manual	<b>Dimensions</b> 350 x 450 x 1800	<b>Ground Level (mOD)</b> 85.40	<b>Client</b> Manuela Eleuteri	<b>Job Number</b> J15315
	<b>Location</b> Ground Level	<b>Dates</b> 12/01/16 to 13/01/16	<b>Engineer</b> Richard Tant Associates	<b>Sheet</b> 1/1

**PLAN**



**SECTION A - A'**



Remarks:  
All dimensions in millimetres  
Trial pit sides remained stable during excavation  
Groundwater not encountered

Scale:  
1:20  
Logged by:  
JS



**Site** 31 Willoughby Road, London, NW3 1RT

**Client** Manuela Eleuteri

**Engineer** Richard Tant Associates

**Job Number**  
J15315

**Sheet**  
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View of TP1 - looking southeast



View into TP1 - looking southeast

**Site** 31 Willoughby Road, London, NW3 1RT

**Client** Manuela Eleuteri

**Engineer** Richard Tant Associates

**Job Number**  
J15315

**Sheet**  
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View of TP2 - looking southeast



View into TP2 - looking southeast

**Site** 31 Willoughby Road, London, NW3 1RT

**Client** Manuela Eleuteri

**Engineer** Richard Tant Associates

**Job Number**  
J15315

**Sheet**  
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View of TP3 - looking northeast



View into TP3 - looking north

**Site** 31 Willoughby Road, London, NW3 1RT

**Client** Manuela Eleuteri

**Engineer** Richard Tant Associates

**Job Number**  
J15315

**Sheet**  
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View of TP4 - looking northwest



Plan view of TP4 - looking northwest

**Site** 31 Willoughby Road, London, NW3 1RT

**Client** Manuela Eleuteri

**Engineer** Richard Tant Associates

**Job Number**  
J15315

**Sheet**  
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View of TP5 - looking southeast



View into TP5 - looking east

**Site** 31 Willoughby Road, London, NW3 1RT

**Client** Manuela Eleuteri

**Engineer** Richard Tant Associates

**Job Number**  
J15315

**Sheet**  
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View of TP6 - looking northwest



View into TP6 - looking northeast