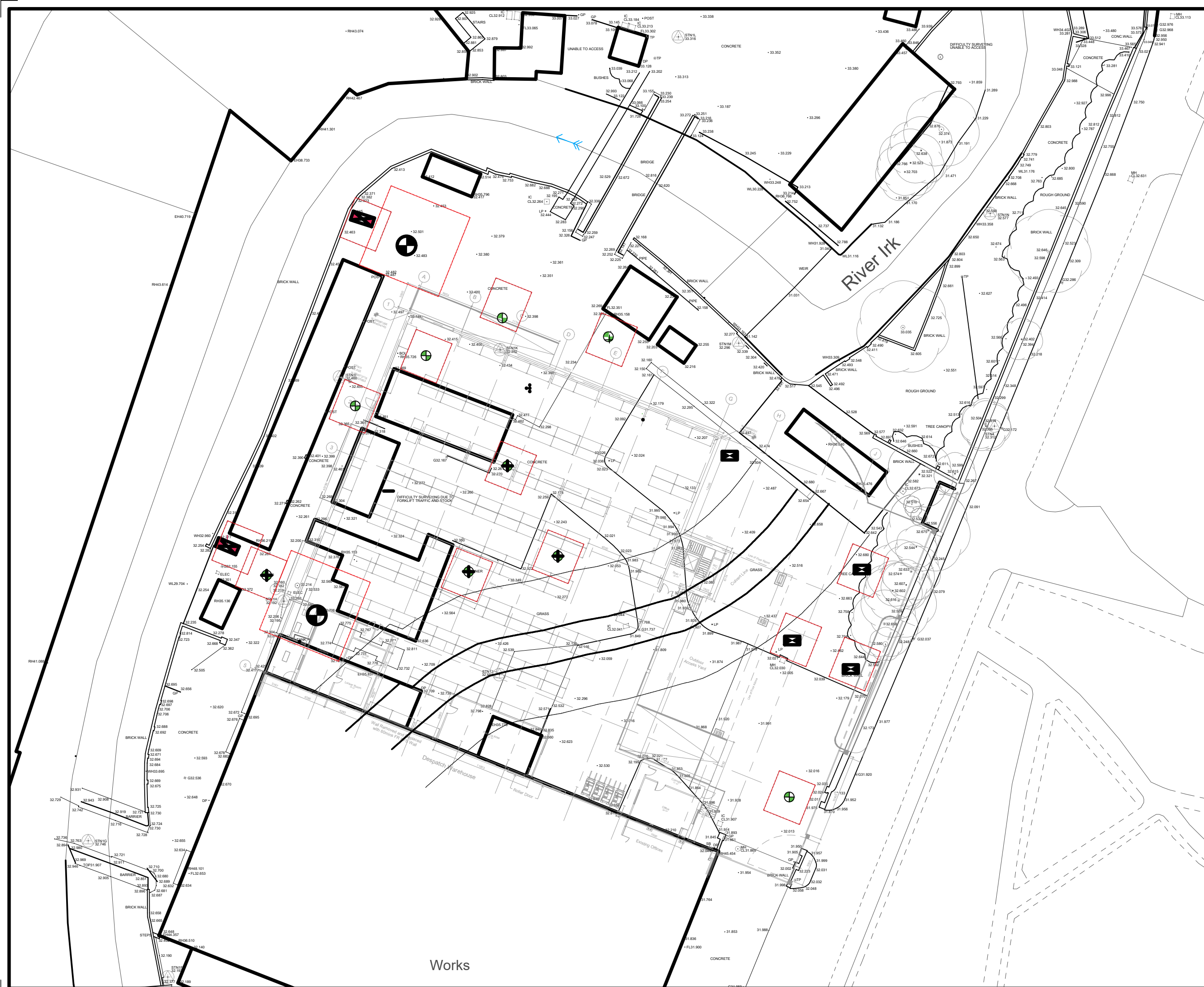




KEY

CBR Location

Window Sample Location

Cable / Rotary Borehole location

Designated Working Area

Trial Pit Location

02	12/04/2022	Exploratory Hole Location Changes	PH	XXX
Rev	Date	Description	By	Check App.

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Client	HMG Paints Ltd
Project	Proposed New Building
Office	Altrincham
Discipline	Geo-Environmental
Title	Proposed Exploratory Hole Location

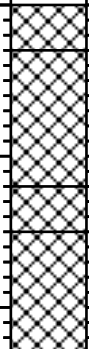
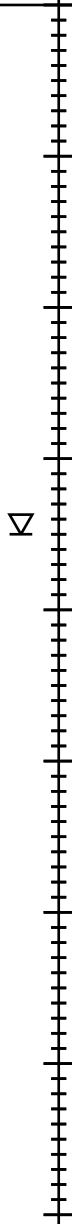
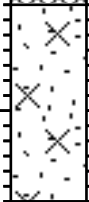
Scale @ A3	nts	Status	Preliminary
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Originator	Job Number	Discipline	Building/Zone
PJH	10-1938	Geo	All
Type	Level	Drawing No.	Revision
GA	00	001	P2

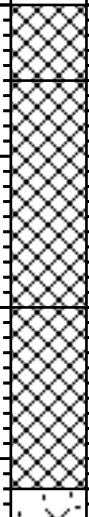
Birmingham 0121 320 7800 Glasgow 0141 222 7200 Liverpool 0151 227 5300 London 020 337 8970 Manchester 0161 613 8000 Newcastle 0191 221 0752 Norwich 01603 853190 Preston 01792 473375 Reading 0118 941 7988

		Project Title: HMG Paints Manchester				TP1	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 27/04/2022		Method: Excavator		Driller: H and C Plant Hire Ltd		Logged By: SP	

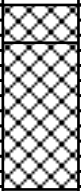
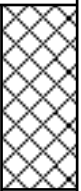
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
2.00	B				0.30	MADE GROUND: Concrete no rebar.		
					1.00	MADE GROUND: Brown slightly sandy gravel with a high cobble content. Gravel is angular to subrounded, fine to coarse of concrete, brick, glass, slag, metal and ash. MADE GROUND: Light grey sandy gravel with a high cobble content. Gravel is angular to subrounded of concrete and brick. Cobbles are angular to subangular of brick and concrete. MADE GROUND: Brown slightly sandy gravel with a high cobble content. Gravel is angular to subrounded, fine to coarse of concrete, brick, glass, slag, metal and ash. Reddish brown fine to medium slightly silty SAND.		
					1.20			
					1.50			
					2.00			
3.40	D				2.30			
					3.00			
					3.60			
					4.00	End Of Borehole At 3.60 m		
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Trial pit excavated to understand nature of wall foundations. No foundation/toe observed. Groundwater encountered at 3.50m.	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>28/04/2022</td> <td>3.5</td> <td>20</td> <td>3.4</td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	28/04/2022	3.5	20	3.4														
Date	Strike	Level	Minutes	Casing	Sealed																						
28/04/2022	3.5	20	3.4																								
		Scale: 1:50	Daily Log Of Depths <table border="1"> <thead> <tr> <th>Date</th> <th>Casing</th> <th>Water</th> <th>From</th> <th>To</th> <th>Hours</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Casing	Water	From	To	Hours																		
Date	Casing	Water	From	To	Hours																						

		Project Title: HMG Paints Manchester				WS10	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 27/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
					0.50	MADE GROUND: Concrete with 10% steel reinforcement.		
					1.00	MADE GROUND: Brown sandy gravel with a low cobble content. Gravel is angular to subrounded, fine to coarse of concrete, slag, brick, glass and ash. Cobbles are subangular to subrounded of concrete and brick.		
					2.00	MADE GROUND: Grey slightly silty sand with rare brick fragments. 2.00 - 3.00 Poor recovery		
					3.00			
					3.20			
					3.40	Very dense reddish brown slightly silty fine to medium SAND.		
					4.00	End Of Borehole At 3.40 m		
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS No Groundwater Encountered Borehole undertaken to obtain wall foundation information. Borehole terminated due to refusal.	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed																		
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Date	Casing	Water	From	To	Hours																						

			Project Title: HMG Paints Manchester				WS1a		
			Project Number: 10/1938		Client: HMG Paints Ltd				
			GL (mAOD):		N Coord: 0		E Coord: 0		
Date: 26/04/2022			Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP		
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe	
1.00 - 1.22	SPT				0.25	MADE GROUND: Light grey decorative limestone gravel over, concrete with no rebar. MADE GROUND: Brown sandy gravel with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of concrete and brick. Cobbles are subangular of brick. End Of Borehole At 1.22 m			
					1.00				
					1.22				
					2.00				
					3.00				
					4.00				
					5.00				
					6.00				
					7.00				
					8.00				

KEY

D - Disturbed Sample
 B - Bulk Sample
 U - Undisturbed
 W - Water Sample
 S - Standard Penetration Test
 C - Cone Penetration Test
 N - Penetration Test 'N' Value
 V - Hand Shear Vane kPa
 - Groundwater Strike
 - Groundwater Level



REMARKS

No Groundwater Encountered
 Borehole terminated due to SPT refusal.

Scale: 1:50

Water Strikes

Date	Strike	Level	Minutes	Casing	Sealed

Daily Log Of Depths **Chiselling**

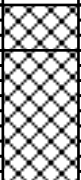
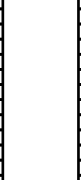
Date	Casing	Water	From	To	Hours

		Project Title: HMG Paints Manchester				WS1b	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES				0.30	MADE GROUND: Light grey decorative limestone gravel, over dark brown silty gravel. Gravel is angular to subrounded, fine to coarse of ash, concrete and brick.		
1.00 - 1.08	SPT	pp 50/50mm			1.00 1.08		MADE GROUND: Brown slightly sandy gravel with a high cobble content. Gravel is angular to subrounded, fine to coarse of concrete, brick and timber. Cobbles of brick and concrete.	
					1.08	End Of Borehole At 1.08 m		
					2.00			
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS No Groundwater Encountered Borehole terminated due to SPT refusal.	Water Strikes																										
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		Scale: 1:50	Daily Log Of Depths																										
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Date	Casing	Water	From	To	Hours																								

			Project Title: HMG Paints Manchester				WS2	
			Project Number: 10/1938		Client: HMG Paints Ltd			
			GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022			Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES	N=7			0.30	MADE GROUND: Grass over, soft dark brown slightly gravelly silt with rootlets towards top of unit and rare cobbles. Gravel is angular to subrounded, fine to coarse of mudstone and brick. Cobbles are angular to subangular of brick.		
1.00 - 1.45	SPT				1.00 1.20			
1.80	ES				1.60	MADE GROUND: Brown sandy gravel. Gravel is angular to subrounded, fine to coarse of sandstone, brick, ash and concrete.		
2.00 - 2.32	SPT		pp 50/275mm		2.00 2.32			
					2.32	MADE GROUND: Light brown slightly gravelly sand. Gravel is angular to subrounded, fine to coarse of ash, concrete and brick.		
					3.00	MADE GROUND: Brown sandy gravel with a low cobble content. Gravel is subangular to rounded, fine to coarse of slag, brick and sandstone. Cobbles are subangular of sandstone and brick.		
					4.00	End Of Borehole At 2.32 m		
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level			REMARKS No Groundwater Encountered Borehole terminated due to SPT refusal. Borehole installed with ground gas and water monitoring standpipe.			Water Strikes																													
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Date	Casing	Water	From	To	Hours																														

		Project Title: HMG Paints Manchester				WS3a	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 27/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
					0.25	MADE GROUND: Concrete with no rebar.		
					0.40	MADE GROUND: Brown sandy gravel with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of concrete, sandstone and brick. Cobbles are subangular to subrounded of sandstone.		
					1.00	End Of Borehole At 0.40 m		
					2.00			
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS No Groundwater Encountered Borehole terminated due to refusal (cobble). 	Water Strikes					
			Date	Strike	Level	Minutes	Casing	Sealed

		Project Title: HMG Paints Manchester				WS3b	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 27/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
					0.25	MADE GROUND: Concrete with no rebar.		
					0.40	MADE GROUND: Brown sandy gravel with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of concrete, sandstone and brick. Cobbles are subangular to subrounded of sandstone.		
					1.00	End Of Borehole At 0.40 m		
					2.00			
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS No Groundwater Encountered Borehole terminated due to refusal (cobble). 		Water Strikes																									
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Scale: 1:50		Daily Log Of Depths																											
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Date	Casing	Water	From	To	Hours																								

		Project Title: HMG Paints Manchester				WS4	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES	N=4 pp 50/285mm			0.10	MADE GROUND: Tarmac.		
1.00 - 1.45	SPT				0.90 1.00	MADE GROUND: Brown sandy gravel with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of concrete, brick, glass and sandstone. Cobbles are subangular of brick and concrete.		
1.50	ES					MADE GROUND: Dark becoming light brown slightly gravelly slightly clayey sand. Gravel is angular to subrounded, fine to coarse of slag, concrete and sandstone. Cobbles are subangular of concrete.		
2.00 - 2.43	SPT				2.00 2.43	End Of Borehole At 2.43 m		
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 		REMARKS No Groundwater Encountered Borehole terminated due to SPT refusal (cobble). Scale: 1:50		Water Strikes																									
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Date	Casing	Water	From	To	Hours																								

		Project Title: HMG Paints Manchester				WS5	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.70	ES	N=4			0.15	MADE GROUND: Concrete with no rebar.		
1.00 - 1.45	SPT				0.25	MADE GROUND: Tarmac.		
1.50	ES				0.30	MADE GROUND: Concrete with no rebar.		
2.00 - 2.39	SPT		pp 50/237mm			0.40	MADE GROUND: Red gravel. Gravel is subangular to subrounded, fine to coarse of brick.	
					1.00	MADE GROUND: Brown sandy gravel with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of concrete, slag, brick and ash. Cobbles are subangular to subrounded of concrete and brick.		
					1.80			
					2.00			
					2.39	MADE GROUND: Light brown slightly gravelly sand with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of sandstone and brick. Cobbles are subangular to subrounded of brick.		
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY

- D - Disturbed Sample
- B - Bulk Sample
- U - Undisturbed
- W - Water Sample
- S - Standard Penetration Test
- C - Cone Penetration Test
- N - Penetration Test 'N' Value
- V - Hand Shear Vane kPa
-  - Groundwater Strike
-  - Groundwater Level



REMARKS

No Groundwater Encountered
Borehole terminated due to SPT refusal (cobble). Borehole installed with ground gas and water monitoring standpipe.

Scale: 1:50

Water Strikes

Date	Strike	Level	Minutes	Casing	Sealed

Daily Log Of Depths

Chiselling					
Date	Casing	Water	From	To	Hours

		Project Title: HMG Paints Manchester				WS6	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES				0.15 0.25	MADE GROUND: Concrete with no rebar. MADE GROUND: Tarmac.		
1.00 - 1.45	SPT	N=4			1.00	MADE GROUND: Brown sandy gravel with a low cobble content. Gravel is angular to subrounded, fine to coarse of concrete, slag, brick, sandstone and ash. Cobbles are subangular to subrounded of concrete and brick.		
1.50	ES							
2.00 - 2.45	SPT	N=4			2.00	MADE GROUND: Light brown slightly gravelly sand with a moderate cobble content. Gravel is angular to subrounded, fine to coarse of sandstone and brick. Cobbles are subangular to subrounded of brick.		
2.60	ES				2.50			
3.00 - 3.17	SPT	pp 50/90mm			3.00 3.17	Very dense reddish brown slightly silty fine to medium SAND.		
						End Of Borehole At 3.17 m		
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

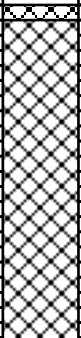
KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS No Groundwater Encountered Borehole terminated due to SPT refusal. Borehole installed with ground gas and water monitoring standpipe.	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed																								
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		Project Title: HMG Paints Manchester				WS7	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 27/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.60	ES				0.25 0.40	MADE GROUND: Concrete with 10% steel reinforcement.		
1.00 - 1.45	SPT	N=10			1.00	MADE GROUND: Grey gravel. Gravel is subangular to subrounded, fine to coarse of concrete.		
1.60 - 2.05	SPT	pp 50/132mm			1.87 2.00	MADE GROUND: Brown sandy gravel with a low moderate content. Gravel is angular to subrounded, fine to coarse of concrete, slag, brick, sandstone and ash. Cobbles are subangular to subrounded of concrete and brick.		
						End Of Borehole At 1.87 m		
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

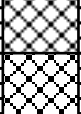
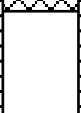
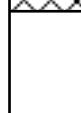
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Date	Casing	Water	From	To	Hours																						

		Project Title: HMG Paints Manchester				WS8	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES	N=10 pp 50/155mm			0.10	MADE GROUND: Tarmac. MADE GROUND: Brown slightly gravelly sand with a high cobble content. Gravel is angular to subrounded, fine to coarse of brick, sandstone and concrete. Cobbles are angular to subangular of concrete. End Of Borehole At 2.31 m		
1.00 - 1.45	SPT		1.00					
1.50	ES		2.00					
2.00 - 2.31	SPT		2.31					
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 		REMARKS No Groundwater Encountered Borehole terminated due to SPT refusal (cobble). Scale: 1:50		Water Strikes																									
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		Project Title: HMG Paints Manchester				WS9	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022		Method: Window Sampler		Driller: Dynamic Sampling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.50	ES	N=11 pp 50/130mm			0.30	MADE GROUND: Grass over, soft dark brown slightly gravelly silt with rootlets towards top of unit. Gravel is angular to subrounded, fine to coarse of clinker, mudstone and brick.		
1.00 - 1.45	SPT				1.00	MADE GROUND: Brown cobbly gravel. Gravel is angular to subrounded, fine to coarse of sandstone, brick, ash and concrete.		
1.50	ES				1.80	MADE GROUND: Light brown slightly clayey slightly gravelly sand. Gravel is angular to subrounded, fine to coarse of sandstone, concrete and brick.		
2.00 - 2.27	SPT				2.00 2.27	MADE GROUND: Brown gravelly sand. Gravel is subangular to rounded, fine to coarse of slag, brick and sandstone.		
					2.27	End Of Borehole At 2.27 m		
					3.00			
					4.00			
					5.00			
					6.00			
					7.00			
					8.00			

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		Project Title: HMG Paints Manchester				BH1	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 25/04/2022-26/04/2022		Method:		Driller: DMW Drilling Ltd		Logged By: SP	

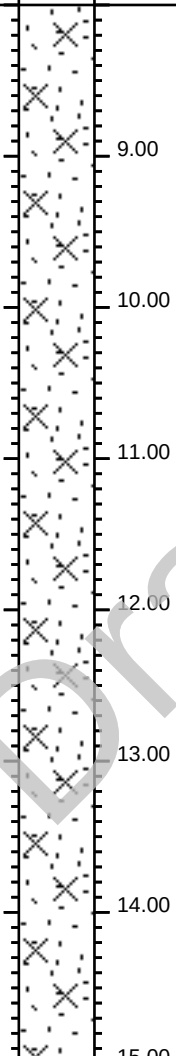
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
0.40	ES				0.15	MADE GROUND: Concrete with no rebar.		
0.60	ES				0.30	MADE GROUND: Tarmac.		
1.20 - 1.65	SPT	N=11			1.00	MADE GROUND: Brown sandy gravel. Gravel is angular to subrounded, fine to coarse of sandstone, brick and concrete.		
1.90	ES				0.50 - 0.80 Ashy			
2.00 - 2.45	SPT	N=5			2.00	1.30 - 2.00 High content. Cobbles are subangular of concrete and brick.		
2.90	ES				2.50	MADE GROUND: Brown slightly gravelly slightly clayey sand with a low cobble content. Gravel is angular to subrounded, fine to coarse of concrete, brick, ash and sandstone. Cobbles are subangular of brick, concrete and sandstone.		
3.00 - 3.45	SPT	N=32			3.00	Reddish brown silty fine to medium SAND.	▼	
4.00 - 4.45	SPT	pp 50/180mm			3.10	Brown gravelly SAND with a low cobble content. Gravel is subangular to rounded of sandstone. Cobbles are subangular to rounded of sandstone.		
5.00 - 5.45	SPT	pp 50/210mm			4.00	Weathered SANDSTONE recovered as slightly silty fine to medium sand.	▽	
					5.00			
					6.00			
					7.00			
					8.00			
						Borehole Continues		

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa ▼ - Groundwater Strike ▽ - Groundwater Level		REMARKS Borehole drilled with cable percussive techniques followed on by rotary coring. No rock cores were obtained, logged as recovered soil. Ground water encountered at 4.00m rising to 3.50m. Borehole installed with ground gas and water monitoring standpipe.  Scale: 1:50	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>28/04/2022</td> <td>4</td> <td>3.5</td> <td>20</td> <td></td> <td></td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> Daily Log Of Depths <table border="1"> <thead> <tr> <th colspan="3">Chiselling</th> <th colspan="3"> </th> </tr> <tr> <th>Date</th> <th>Casing</th> <th>Water</th> <th>From</th> <th>To</th> <th>Hours</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	28/04/2022	4	3.5	20															Chiselling						Date	Casing	Water	From	To	Hours												
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		pp 50/160mm		+ +	9.00	Weathered SANDSTONE recovered as slightly silty fine to medium sand.																																																		
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				+	12.00																																																			
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		pp 50/170mm		+	13.50	End Of Borehole At 13.50 m																																																		
					14.00																																																			
					15.00																																																			
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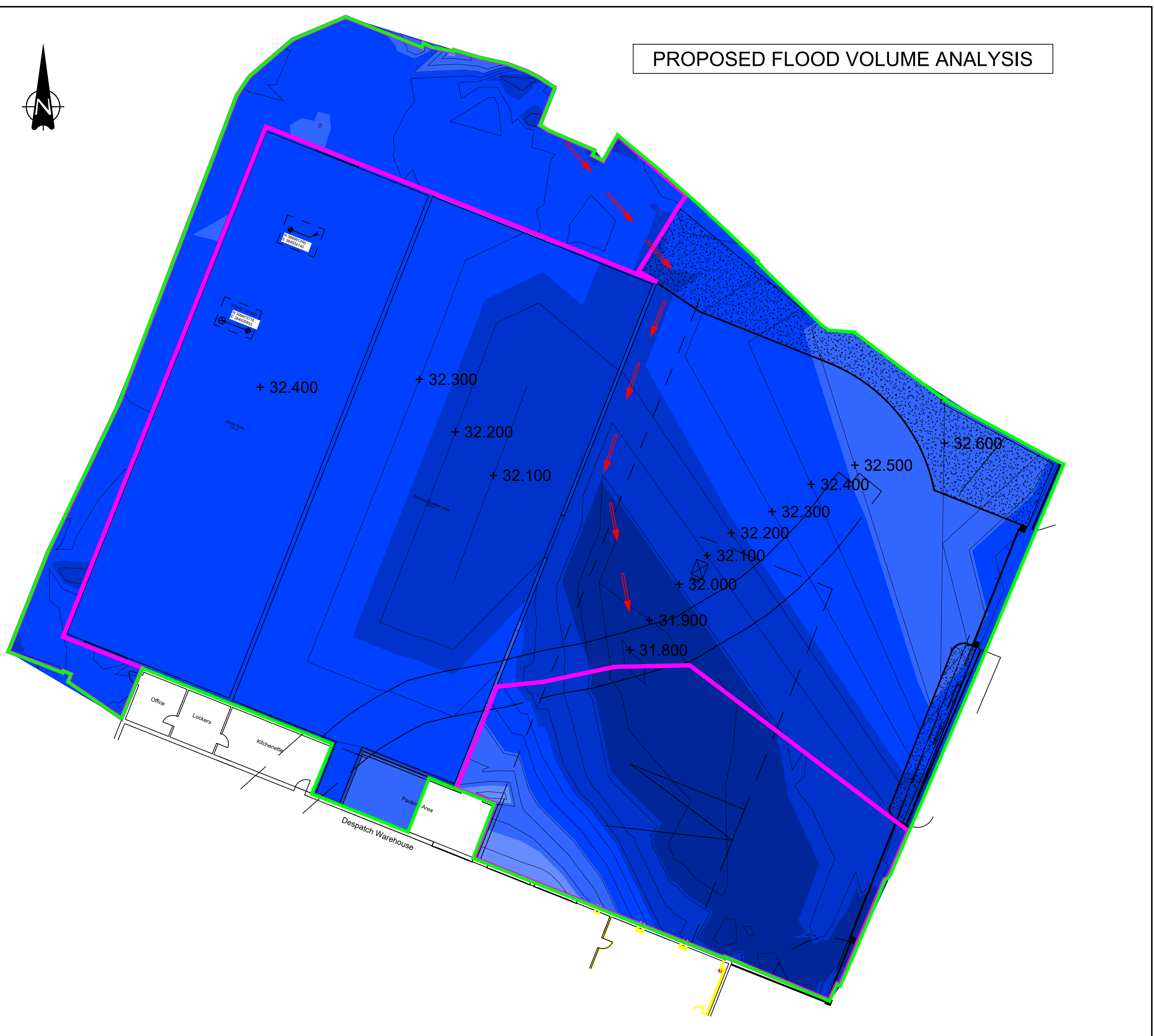
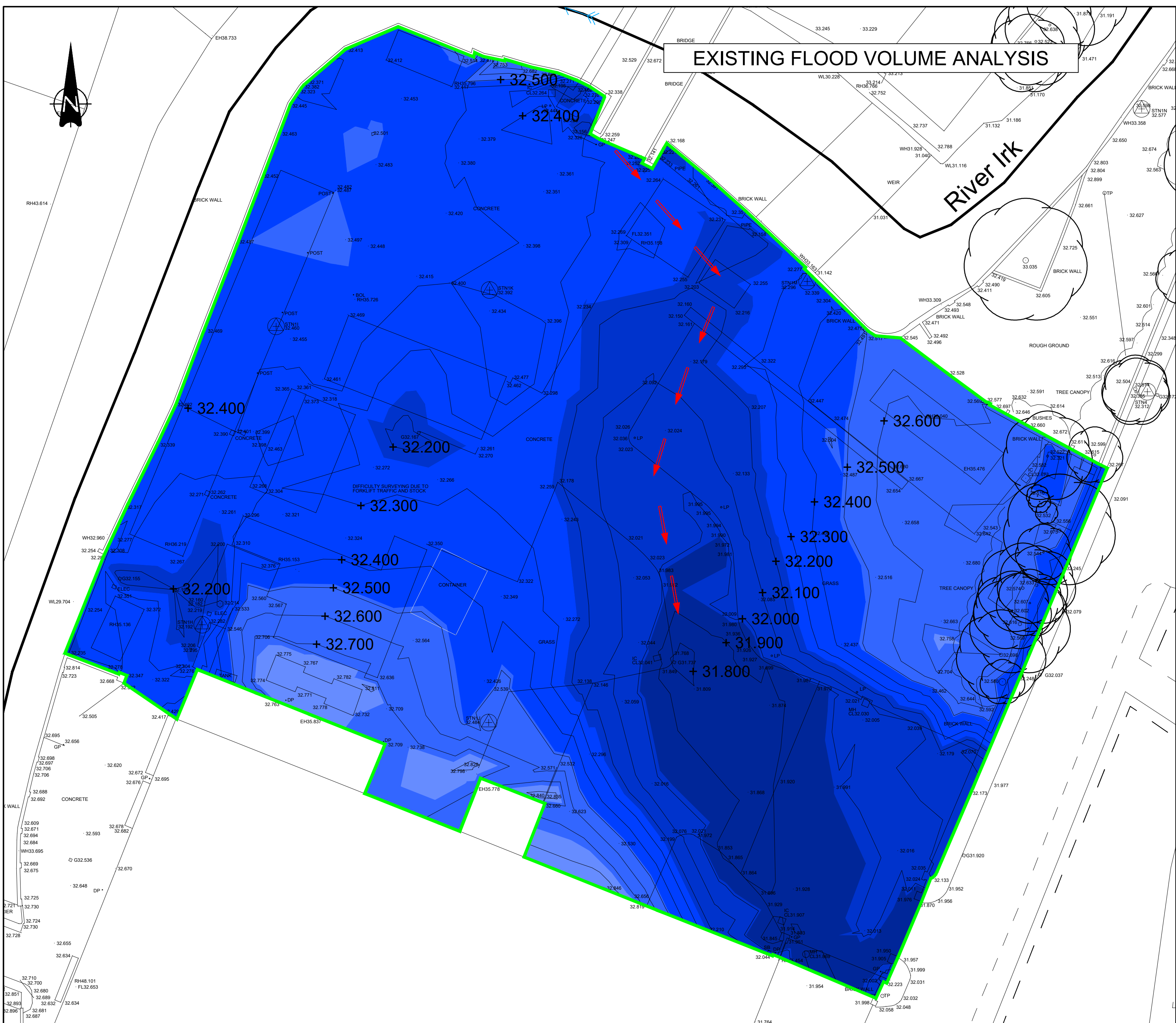
			Project Title: HMG Paints Manchester				BH2						
			Project Number: 10/1938		Client: HMG Paints Ltd					Sheet 1 Of 2			
			GL (mAOD):		N Coord: 0		E Coord: 0						
Date: 26/04/2022-27/04/2022			Method:		Driller: DMW Drilling Ltd		Logged By: SP						
Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe					
0.50	ES				0.15 0.25 0.35	MADE GROUND: Concrete with 10% steel reinforcement.							
1.20 - 1.65	SPT	N=8			1.00	MADE GROUND: Tarmac.							
1.80	ES				1.60	MADE GROUND: Concrete with 10% steel reinforcement.							
2.00 - 2.45	SPT	N=12			2.00	MADE GROUND: Brown becoming dark brown sandy gravel with a high cobble content. Gravel is angular to subrounded, fine to coarse of brick, concrete, sandstone, glass and metal. Cobbles are subangular of brick and concrete.							
2.30	ES				2.60	MADE GROUND: Light brown slightly gravelly fine to medium sand. Gravel is angular to subrounded, fine to coarse of ash, concrete and brick.							
2.70	ES				3.00	MADE GROUND: Brown slightly gravelly slightly clayey sand. Gravel is subangular to subrounded, fine to coarse of ash, concrete, sandstone and brick.							
3.00 - 3.45	SPT	pp 50/125mm			4.00	Weathered SANDSTONE recovered as very dense slightly silty fine to medium sand.							
4.00 - 4.45	SPT	pp 50/115mm			5.00								
5.00 - 5.45	SPT	pp 50/160mm			6.00								
6.00 - 6.45	SPT	pp 50/125mm			7.00								
7.50 - 7.95	SPT	pp 50/115mm			8.00								
						Borehole Continues							
KEY			REMARKS			Water Strikes							
D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level 			Borehole drilled with cable percussive techniques followed on by rotary coring. No rock cores were obtained, logged as recovered soil. Ground water encountered at 4.00m rising to 3.60m. Borehole installed with ground gas and water monitoring standpipe. Scale: 1:50			Date			Strike	Level	Minutes	Casing	Sealed
						28/04/2022			4	4	20		
						Daily Log Of Depths			Chiselling				
						Date			Casing	Water	From	To	Hours

		Project Title: HMG Paints Manchester				BH2	
		Project Number: 10/1938		Client: HMG Paints Ltd			
		GL (mAOD):		N Coord: 0		E Coord: 0	
Date: 26/04/2022-27/04/2022		Method:		Driller: DMW Drilling Ltd		Logged By: SP	

Depth (m)	Type	Test Result	Level	Legend	Depth (m)	Description	Water	Standpipe
		pp 50/160mm			9.00	Weathered SANDSTONE recovered as very dense slightly silty fine to medium sand.		
		pp 50/135mm			10.00			
		pp 50/115mm			11.00			
		pp 50/115mm			12.00			
		pp 50/220mm			13.00			
		pp 50/115mm			14.00			
					15.00	End Of Borehole At 15.00 m		
					16.00			

KEY D - Disturbed Sample B - Bulk Sample U - Undisturbed W - Water Sample S - Standard Penetration Test C - Cone Penetration Test N - Penetration Test 'N' Value V - Hand Shear Vane kPa  - Groundwater Strike  - Groundwater Level		REMARKS Borehole drilled with cable percussive techniques followed on by rotary coring. No rock cores were obtained, logged as recovered soil. Ground water encountered at 4.00m rising to 3.60m. Borehole installed with ground gas and water monitoring standpipe. 	Water Strikes <table border="1"> <thead> <tr> <th>Date</th> <th>Strike</th> <th>Level</th> <th>Minutes</th> <th>Casing</th> <th>Sealed</th> </tr> </thead> <tbody> <tr> <td>28/04/2022</td> <td>4</td> <td>4</td> <td>20</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> Daily Log Of Depths <table border="1"> <thead> <tr> <th>Date</th> <th>Casing</th> <th>Water</th> <th>From</th> <th>To</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Strike	Level	Minutes	Casing	Sealed	28/04/2022	4	4	20															Date	Casing	Water	From	To	Hours												
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Appendix H – Flood Volume Extents and Sections



FLOOD VOLUME COMPARISON BETWEEN EXISTING AND PROPOSED LEVELS UP TO THE PREDICTED 100 YEAR PLUS 35% FLOOD LEVEL								
Level (m AOD)	Level (m AOD)	Band depth (m)	Existing volume per band (m3)	Cumulative (m3)	Proposed volume per band (m3)	Cumulative (m3)	Difference per band (m3)	Difference Cumulative (m3)
31.737	-	31.987	0.250	29.45	29.45	34.14	34.14	4.69
31.987	-	32.237	0.250	224.64	254.09	229.96	264.1	5.32
32.237	-	32.487	0.250	614.71	868.80	695.22	959.32	80.51
32.487	-	32.737	0.250	1010.28	1879.08	1085.14	2044.46	74.86
32.737	-	32.987	0.250	1123.95	3003.03	1128.82	3173.28	4.87
32.987	-	33.160	0.173	780.13	3783.16	782.132	3955.41	2.00

Notes
1) 31.737 is the lowest level on the site.
2) 33.160 is the predicted 100 year plus 35% climate change flood level.
3) Slab level set at 32.4m AOD.

TABLE 1

KEY:

FLOOD VOLUME 31.737 - 31.987



FLOOD VOLUME 31.987 - 32.237



FLOOD VOLUME 32.237 - 32.487



FLOOD VOLUME 32.487 - 32.737



FLOOD VOLUME 32.737 - 32.987



FLOOD VOLUME 32.987 - 31.600



FLOOD FLOW PATH



SITE BOUNDARY



LEVELS MAINTAINED WITHIN THIS ZONE



CONTOUR LEVELS

+ 32.100

KEY:

- THIS DRAWING HAS BEEN PRODUCED TO COMPARE THE EXISTING FLOOD VOLUMES AGAINST THE PROPOSED FLOOD VOLUMES.
- LEVEL HAVE BEEN DESIGNED FOR THE PROPOSED SITE TO MAINTAIN OR BETTER FLOOD VOLUMES PER 250mm BAND.
- THE LOWEST LEVEL ON THE SITE IS RECORDED AT 31.737m AOD THEREFORE HAS BEEN SET AS THE BASE LEVEL FOR THE 250mm BANDS.
- THE ENVIRONMENT AGENCY HAVE CONFIRMED THE CLIMATE CHANGE LEVEL SHOULD BE THE 1 IN 100 YEAR PLUS 35% CLIMATE CHANGE. THIS LEVEL HAS BEEN CALCULATED AT 31.660m AOD.
- TABLE 1 SHOWS THE VOLUMES PER BAND FOR BOTH EXISTING AND PROPOSED SCENARIOS.
- THE PROPOSED STORAGE FACILITY IS INTENDED TO FLOOD UP TO THE +35% CLIMATE CHANGE LEVEL.
- THE BUILDING IS TO BE FITTED WITH A FLOOD SYSTEM AT EACH CORNER OF THE BUILDING TO ALLOW FLOOD WATER TO ENTER & EXIT THE BUILDING.
- FLOOD FLOW PATHS HAVE BEEN MAINTAINED IN THE PROPOSED SCENARIO AS SHOWN ON PLAN (RED ARROWS).

P01

Rev

20.05.22

DATE

20.05.22

DESCRIPTION

FIRST ISSUE

CD

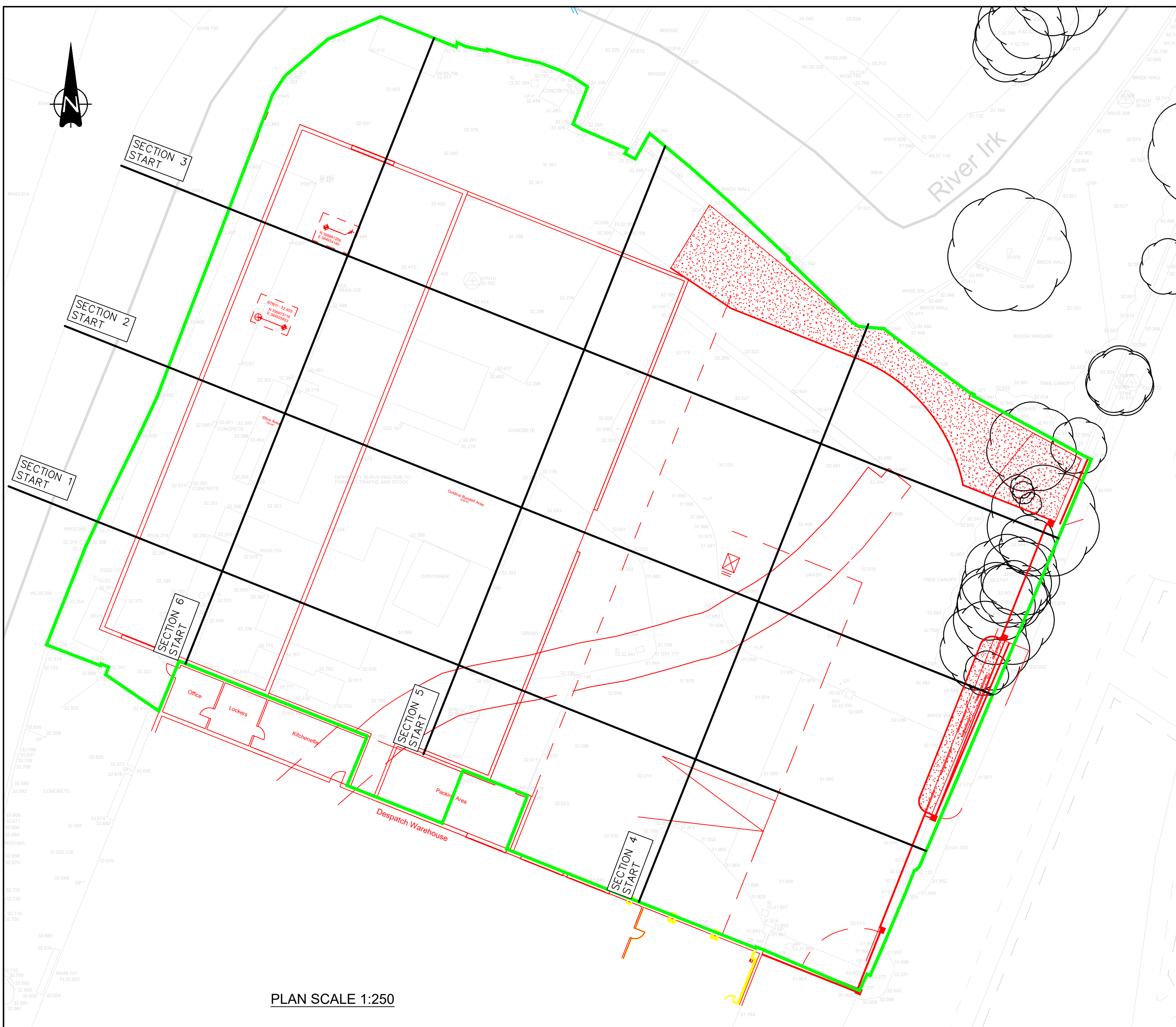
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PF

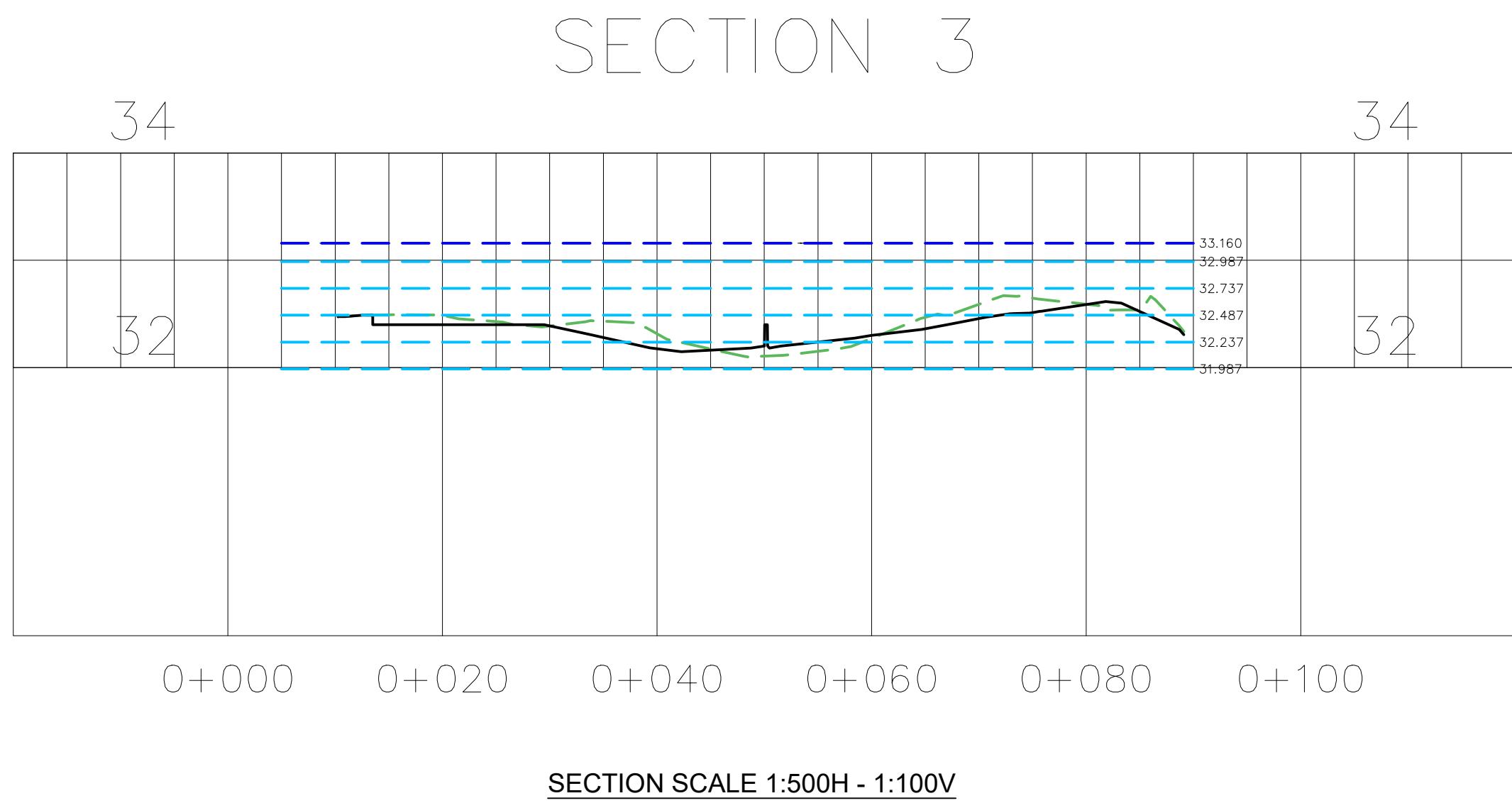
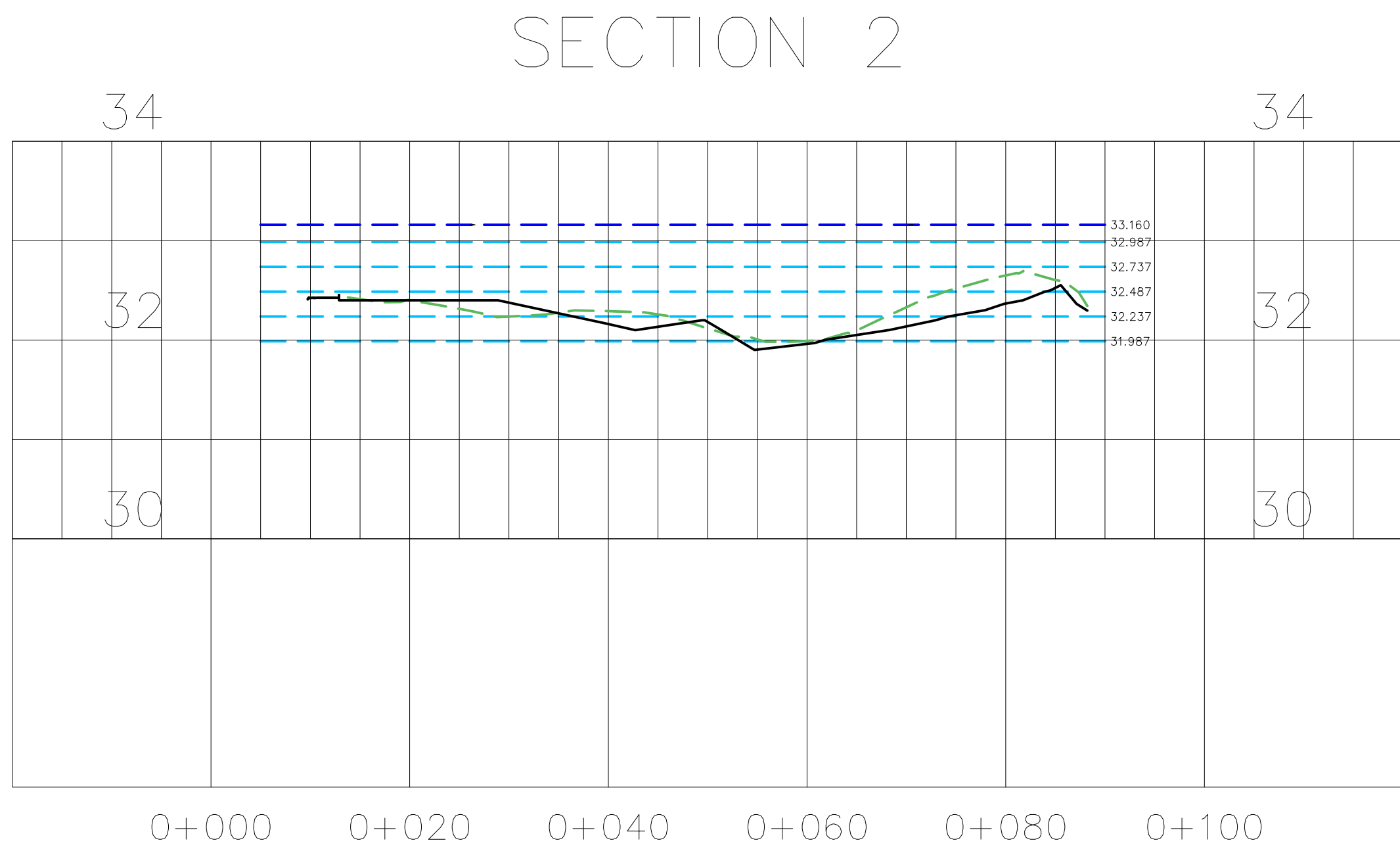
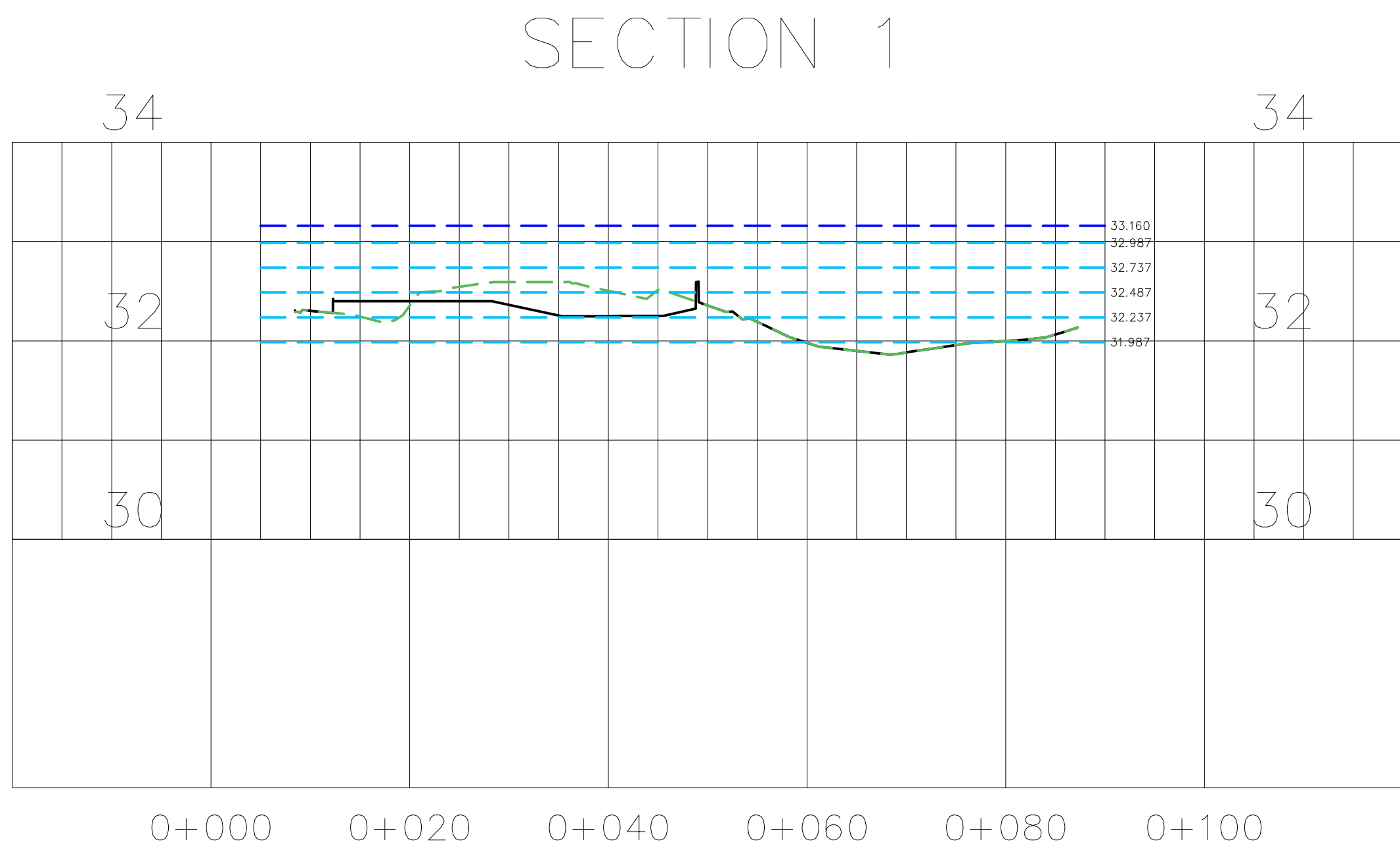
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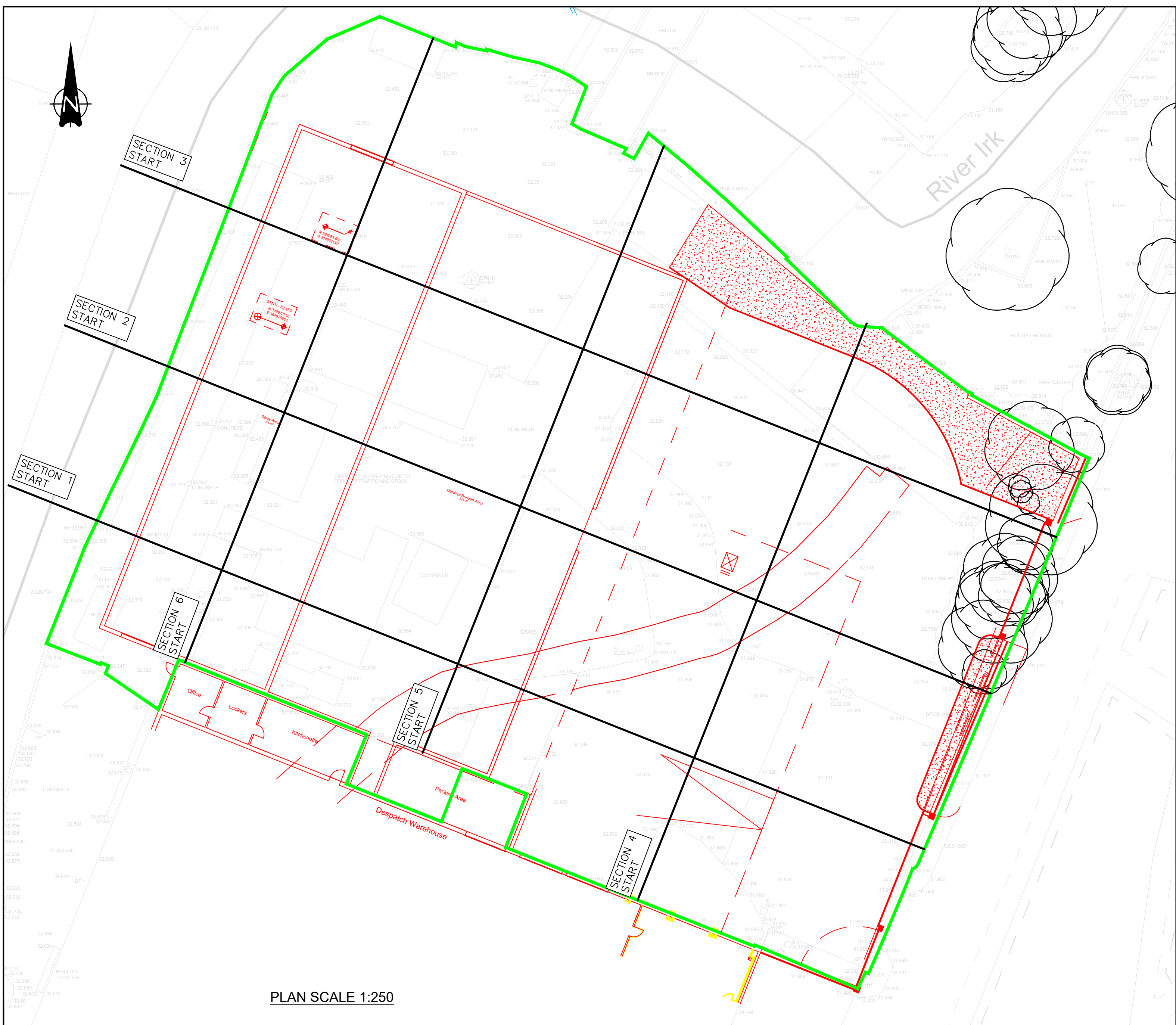


KEY PLAN:	
SITE BOUNDARY	
PROPOSED DEVELOPMENT	
TOPOGRAPHICAL SURVEY	
KEY SECTION:	
EXISTING GROUND	
PROPOSED GROUND	
+35% CC FLOOD LEVEL	
250mm BANDING	



SECTION SCALE 1:500H - 1:100V

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CIVIL AND STRUCTURAL					
Title					
SITE SECTIONS SHEET 1 OF 2					
Scale @ A1			Status		
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1/21268	CCL	00	00		
Type	Discipline	Drawing No.	Revision		
DR	C	002	P01		



PLAN SCALE 1:250

KEY PLAN:

SITE BOUNDARY

PROPOSED DEVELOPMENT

TOPOGRAPHICAL SURVEY

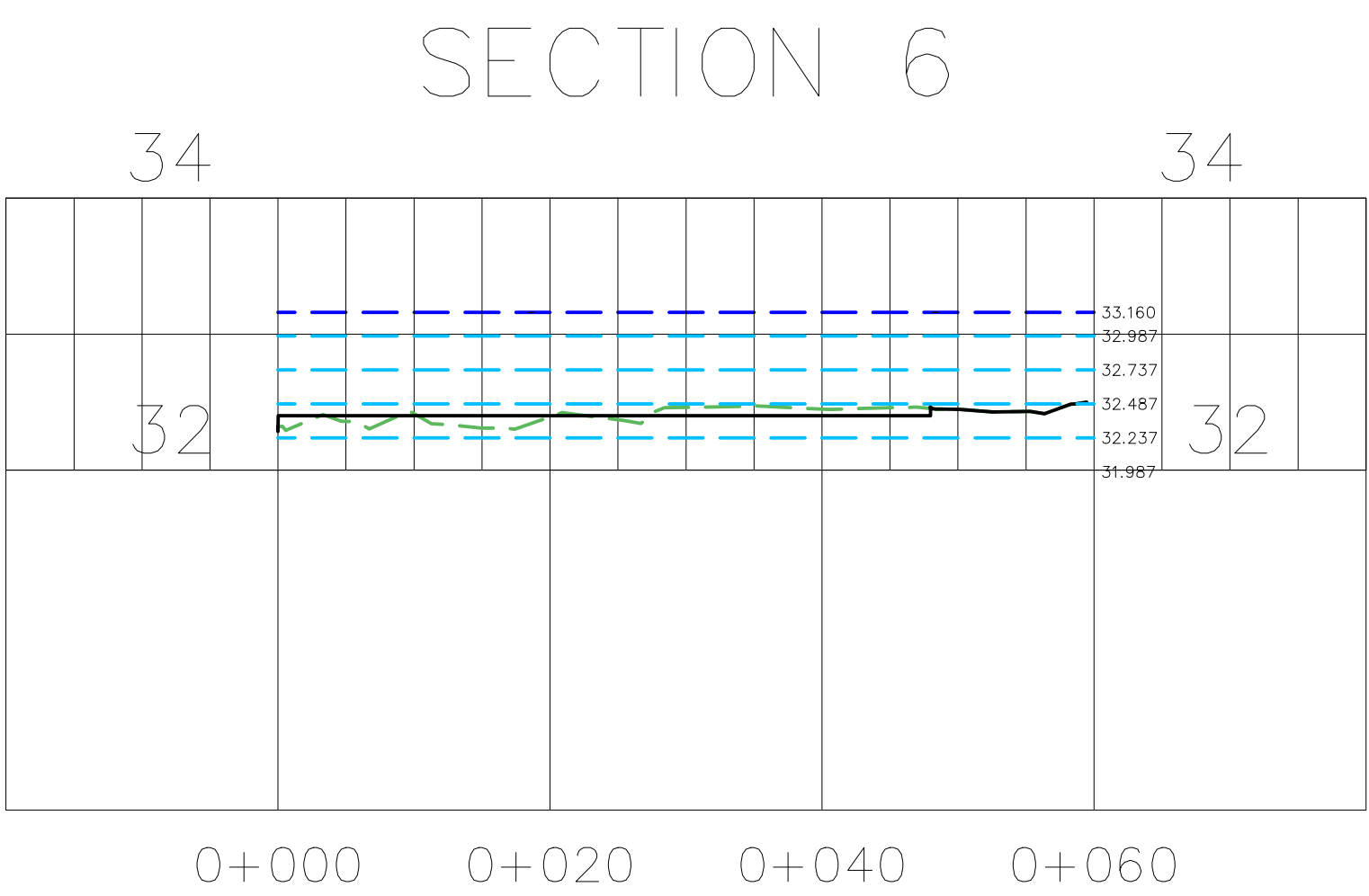
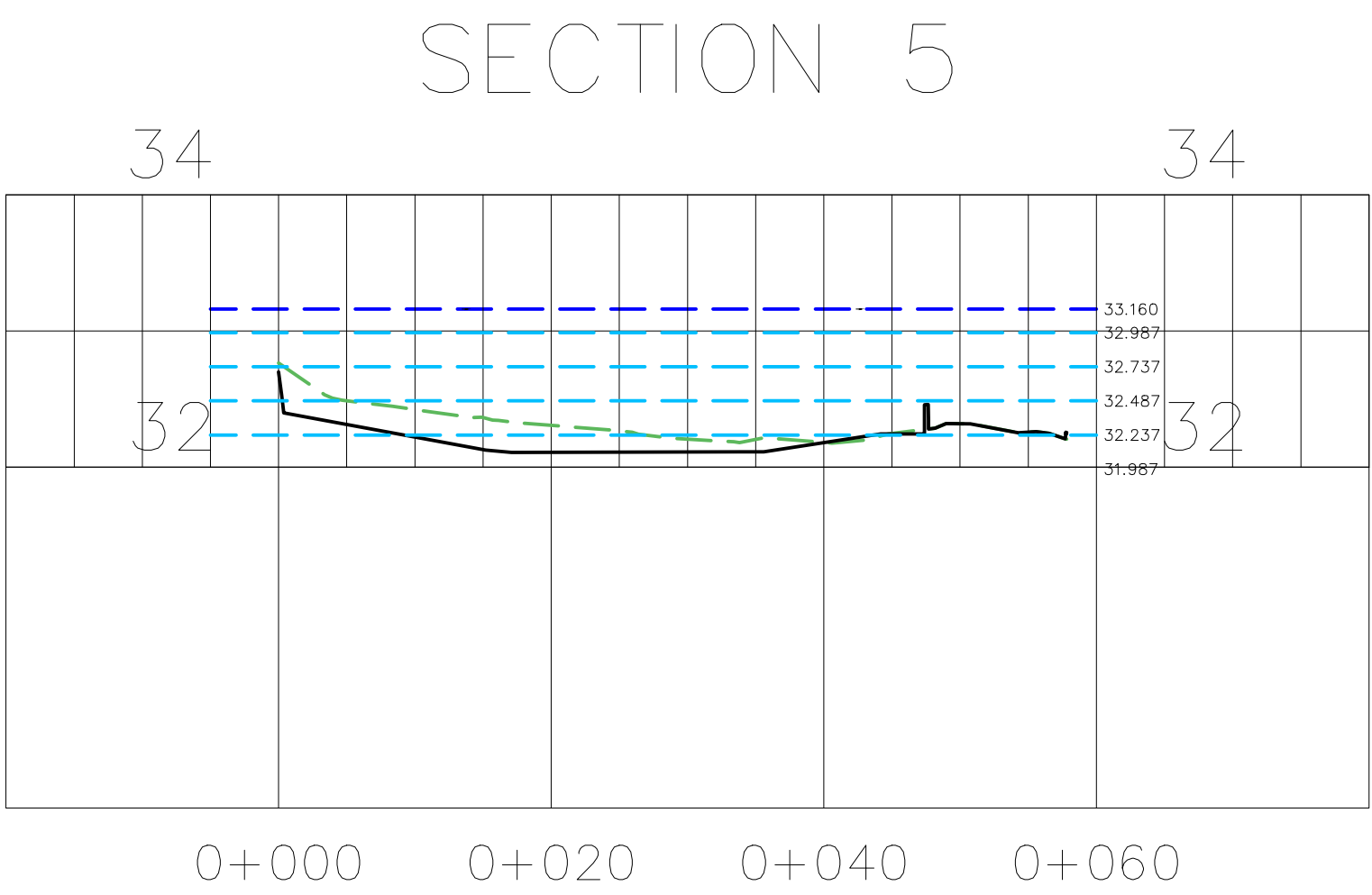
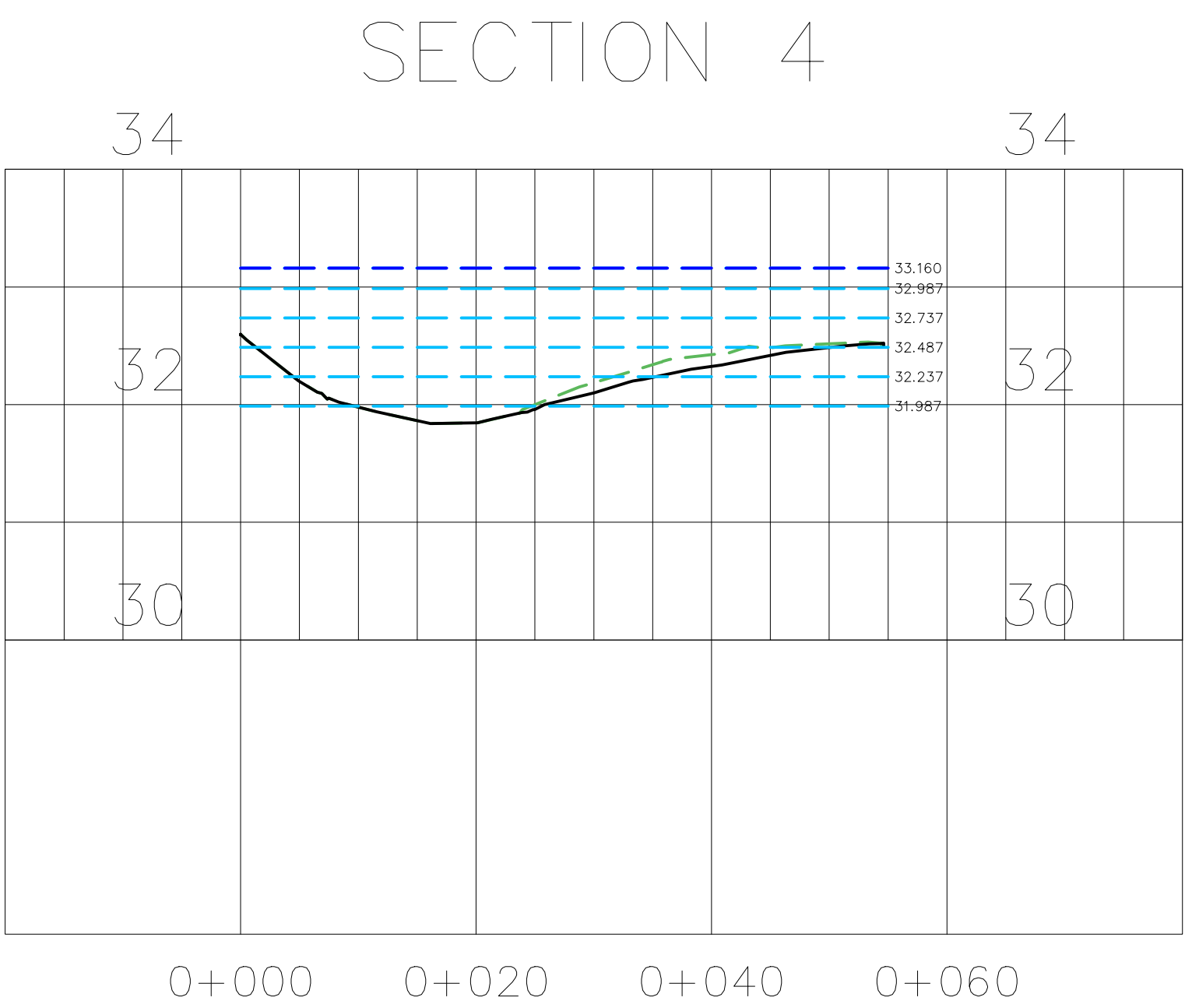
KEY SECTION:

EXISTING GROUND

PROPOSED GROUND

+35% CC FLOOD LEVEL

250mm BANDING



SECTION SCALE 1:500H - 1:100V

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Discipline
CIVIL AND STRUCTURAL

Title
SITE SECTIONS
SHEET 2 OF 2

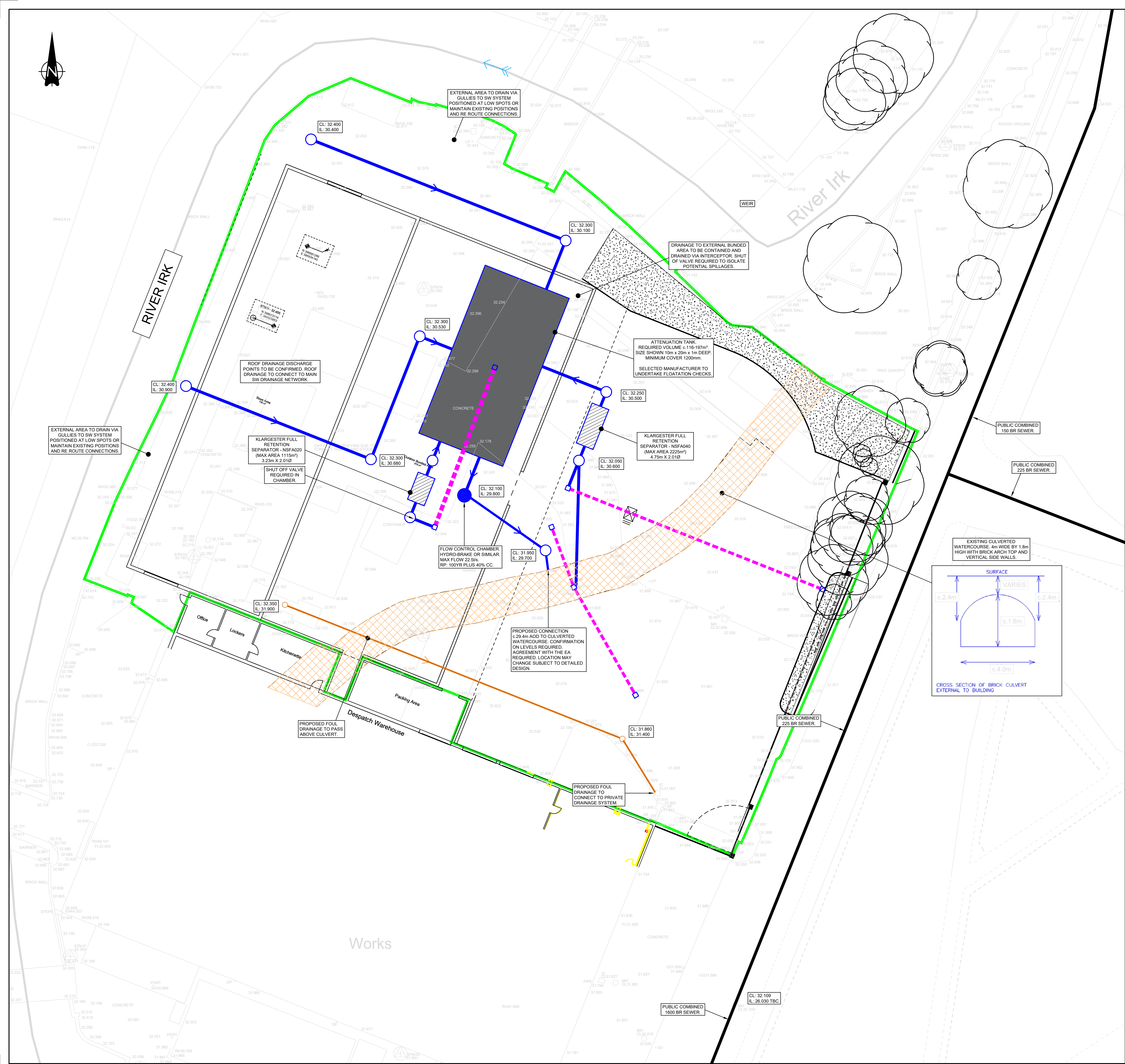
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AS SHOWN

Status
PRELIMINARY

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Job Number	Originator	Building/Zone	Level
1/21268	CCL	00	00
Type	Discipline	Drawing No.	Revision
DR	C	003	P01

Appendix I – Drainage Strategy



KEY:

SITE BOUNDARY	
EX PUBLIC COMBINED SEWER	
PROPOSED SW DRAIN	
PROPOSED FW DRAIN	
PROPOSED ATTENUATION	
PROPOSED HEAVY DUTY LINEAR CHANNEL	
PROPOSED INTERCEPTOR	
MOSTON BROOK SUB-SURFACE CULVERT ALIGNMENT	

SW DISPOSAL HIERARCHY STATEMENT

INFILTRATION
WHEN DESIGNING A SOAKAWAY DRAINAGE SYSTEM, ALLOWING SURFACE WATER RUNOFF TO BE COLLECTED AND DISCHARGED INTO THE GROUND, 1m CLEARANCE IS REQUIRED FROM THE BASE OF THE DRAINAGE SYSTEM TO THE WATER LEVEL. THE BASE OF DRAINAGE SYSTEM IS EXPECTED TO BE c.2.5m BGL WHEN PROVIDING SUFFICIENT LOADING COVER TO THE SYSTEM (CL: 32.2m AOD - 2.5m DEPTH = IL: 29.7m AOD). MEETING THE REQUIREMENT OF PROVING 1m CLEARANCE ABOVE THE GROUND WATER LEVEL, ISN'T FEASIBLE.

RIVER WATER LEVEL SHOWN ON THE TOPOGRAPHICAL SURVEY, RECORDED AT 29.704m AOD TO THE SOUTH WESTERN CORNER OF THE SITE. THIS IS MARGINALLY HIGHER THAN THE GROUND WATER LEVELS.

IT HAS BEEN ADVISED THAT INFILTRATION / SOAKAWAY TESTING WAS NOT PART OF THE PROPOSAL DUE TO THE LACK OF SUPERFICIAL DEPOSITS AND POTENTIAL FOR SIGNIFICANT CONTAMINATION TO BE PRESENT AT THE SITE, AND THEREFORE NOT UNDERTAKEN.

WITH THE ABOVE IN MIND, DISCHARGING SURFACE WATER VIA MEANS OF INFILTRATION HAS BEEN DISCOUNTED

DISCHARGE TO WATERCOURSE
PROPOSED DISCHARGE LOCATION IS CULVERTED WATERCOURSE WITHIN THE DEVELOPMENT BOUNDARY.

DISCHARGE TO SURFACE WATER SEWERS - N/A.

DISCHARGE TO COMBINED SEWER - N/A.

DESIGN PHILOSOPHY

EXISTING DRAINAGE
THE EXISTING SITE DRAINAGE DISCHARGES TO WATERCOURSE AT 45/s.

SURFACE WATER DESIGN
THE PROPOSED DEVELOPED IS TO BE RESTRICTED TO 50% OF EXISTING FLOWS.

THE DESIGN PROVIDES CAPACITY UP TO THE 100 YEAR 40% CLIMATE CHANGE EVENT.

MAX SW FLOW RATE: 22.5 l/s.

APPROXIMATE STORAGE REQUIREMENT: c.116-197m³

OUTFALL: EXISTING CULVERTED WATERCOURSE SUBJECT TO AGREEMENT WITH THE EA.

LEVELS INDICATE THAT PUMPING WILL NOT BE REQUIRED.

POLLUTION TREATMENT: NOT REQUIRED.

SUSTAINABLE DRAINAGE PROPOSALS:

- FLOW RESTRICTIONS AND ATTENUATION TANK.

INFILTRATION IS NOT CONSIDERED APPROPRIATE FOR THIS SCHEME.
FLOW CONTROL CHAMBER PROVIDED PRIOR TO DISCHARGING OFF SITE.
HYDRO-BRAKE OR SIMILAR TO BE PROVIDED TO RESTRICT FLOWS.

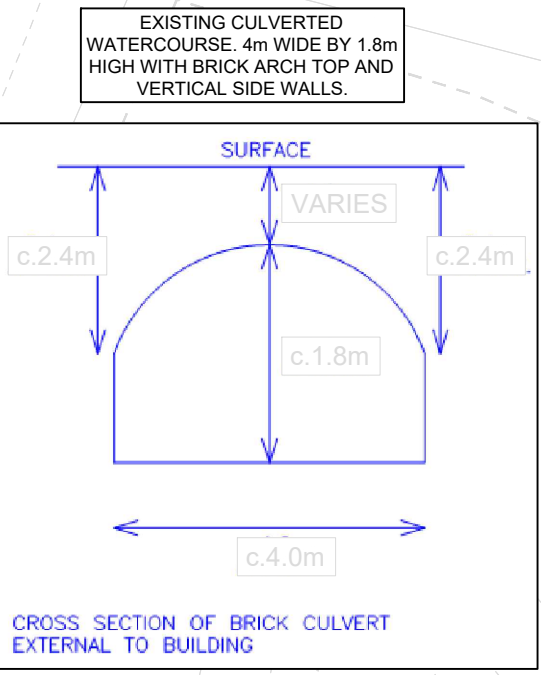
ATTENUATION

REQUIRED STORAGE VOLUME TO BE ATTENUATED WITHIN ATTENUATION TANK = MAX 197m³ BASED ON 1:100 YR PLUS 40% CLIMATE CHANGE.

STORAGE SIZE SUBJECT TO DETAILED DESIGN = 10m x 20m x 1m.

FOUL WATER DESIGN

EXISTING FOUL DRAINAGE FROM THE EXISTING BUILDING TO REMAIN AS EXISTING.
PROPOSED FOUL FLOWS TO BE CONNECTED TO THE EXISTING PRIVATE DRAINAGE SYSTEM OR PUBLIC SEWER. SUBJECT TO SURVEY.
ANY PROPOSED FLOWS FROM NEW DEVELOPMENT TO BE CONFIRMED.



- GENERAL NOTES:**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
 2. DESIGN BASED ON TOPOGRAPHICAL SURVEY AND CCTV SURVEY INFORMATION AVAILABLE AT THE TIME OF DESIGN.
 3. ALL EXISTING SEWERS, CONNECTIONS, PIPE SIZES AND INVERT LEVELS TO BE CONFIRMED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS TO ENSURE CONNECTIVITY. ANY VARIANCE FROM THE INFORMATION SHOWN SHOULD BE REPORTED TO THE ENGINEER FOR REVIEW.
 4. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
 5. ALL DIMENSIONS ARE IN METRES AND LEVELS IN METRES ABOVE ORDNANCE DATUM UNLESS OTHERWISE NOTED.
 6. WHERE EXISTING DRAINAGE IS BEING USED, ALLOWANCES SHOULD BE MADE TO REMEDIATE THIS DRAINAGE IN LINE WITH AVAILABLE CCTV SURVEY INFORMATION. IF NO SURVEY IS AVAILABLE, IT IS ADVISED TO OBTAIN ONE PRIOR TO COMMENCEMENT OF WORKS.
 7. ALL EXISTING SERVICES TO BE LOCATED PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS, AND WHERE NECESSARY PROTECTION OR DIVERSIONS TO BE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORK.
 8. ALL RAINWATER AND FOUL POP UPS LOCATIONS TO BE CONFIRMED BY THE ARCHITECT AND M&E ENGINEER.
 9. COVER LEVELS, GULLY POSITIONS, AND BUILDINGS LOCATION ARE APPROXIMATE AND SHALL BE CONFIRMED BY ARCHITECT / LANDSCAPE ARCHITECT.
 10. ALL PIPE DIAMETERS GIVEN ARE NOMINAL INTERNAL PIPE DIAMETERS. THESE ARE TO BE CONFIRMED ONCE A DETAILED CAPACITY CHECK HAS BEEN UNDERTAKEN AT A LATER DESIGN STAGE.
 11. OUTFALL CONNECTION(S) SUBJECT TO AGREEMENT WITH THE APPROVING AUTHORITY.
 12. DRAINAGE DESIGN IS INDICATIVE ONLY TO DEMONSTRATE DRAINAGE INTENT AND IS SUBJECT TO DETAILED DESIGN, HYDRAULIC MODELING AND APPROVAL BY RELEVANT AUTHORITIES.

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Office	ALTRINCHAM
Discipline	CIVIL AND STRUCTURAL
Title	DRAINAGE STRATEGY

Scale @ A1	1:200	Status	PRELIMINARY
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DR	C	010	P01