

# Key to exploratory hole symbols and abbreviations

## SAMPLE TYPES

ACM - Asbestos sample	AMAL - Amalgamated sample	B - Bulk disturbed sample
BLK - Block sample	C - Core sample	CBR - CBR test sample
D - Disturbed sample	ES - Environmental sample	EW - Environmental water sample
G - Gas sample	J - Jar sample	L - Liner sample
TW - Pushed thin wall sample	U - Undisturbed sample	UT - Undisturbed thin wall sample
W - Water sample		

## IN-SITU TESTS

HV - Hand shear vane	HV(r) - Hand shear vane residual	PID - Photo ionisation detector
PP - Hand penetrometer	SPT - Standard penetration test	SPT(C) - SPT using cone

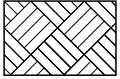
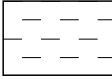
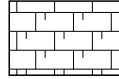




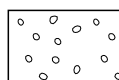
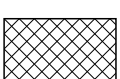
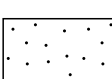
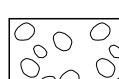
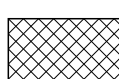
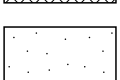
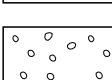
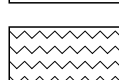

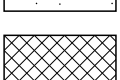

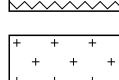
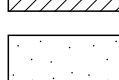

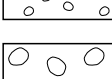
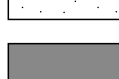




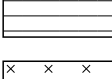

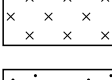


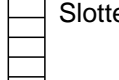
## GROUNDWATER

 Groundwater strike	 Groundwater rest level
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## ROTARY CORE DETAILS

TCR - Total core recovery (%)	SCR - Solid core recovery (%)	RQD - Rock quality designation (%)
FI - Fracture index	NI - Non-intact core	AZCL - Assumed zone of core loss

## LEGEND

 Topsoil	 Clay	 Chalk	 Sand backfill
 Peat	 Silt	 Breccia	 Gravel backfill
 Made ground	 Sand	 Conglomerate	 Arisings
 Concrete	 Gravel	 Metamorphic	 Bentonite
 Wood	 Cobbles	 Igneous	 Concrete
 Brick	 Boulders		 Grout
 Bituminous material	 Mudstone		 Plain pipe
 Gypsum	 Siltstone		
 Coal	 Sandstone		
 Void	 Limestone		 Slotted pipe

123 Main Street  
Anytown  
Theshire  
AB12 3CD

<b>Hole Type</b> IP+CP+RC	<b>Easting</b> 431690.05	<b>Northing</b> 431720.05	<b>Ground Level (m)</b> 60.83	<b>Scale</b> 1:50
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<b>Project Name</b> A123 Roundabout Improvement	<b>Project No.</b> ABC123	<b>Start Date</b> 2024-03-12	<b>End Date</b> 2024-03-12
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<b>Client</b> National Roads	<b>Contractor</b> The Soil Contractors	<b>Consultant</b> The Soil Engineers
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Inst/ Backfill	Water Levels	Samples and Tests			Coring				Frac	Level (m)	Depth (m)	Strata	
		Depth (m)	Type/ Ref	Results	Core Run	TCR (%)	SCR (%)	RQD (%)				Legend	Description
		1.40 1.40 - 1.50	SPT(C) U 1	N=21 (3,2/5,6,5,5) Blows: 8, Recovery: 100%						60.53	(0.30) 0.30		TOPSOIL: Dark brown slightly gravelly slightly clayey fine to coarse sand.
											(2.20)		Firm grey slightly sandy slightly gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is angular to subrounded fine to coarse of sandstone and mudstone. Cobbles are subangular to subrounded of sandstone. [Anytown Clay Fm]
		2.25 2.40 2.40	PID HV HV(r)	12.00 77.33 (kPa) 43.67 (kPa)						58.33	2.50		from 2.20m to 3.00m gravel is fine to medium (2.20 - 2.30m)
					2.50 4.00	100	45	10					Extremely weak reddish brown medium grained SANDSTONE. [Anytown Sandstone Fm]
									21				highly fractured (3.85 - 4.30m)
		4.10	B 2						NI				
					4.00 5.50	100	75	45			(4.00)		
		5.10	SPT	N=50 (6,8/6,9,9 for 50mm)									
					5.50 6.50	85	55	0					
										54.33	6.50		End of Borehole at 6.50m

**Remarks**  
Gas alarm used to monitor borehole location during rotary drilling. No elevated gas levels detected during borehole formation.

**Method, Plant, Stability, Dimensions**

0.00 - 0.50m IP JCB  
Stable  
Inclination: 90° Orientation: 210°  
L = 1.20m  
 W = 0.85m

0.50 - 2.50m CP Dando  
2.50 - 6.50m RC Soilmecc SM8G

**Logger**  
TR  
BW  
TJF

Checked By: Otto Approved By: Magda Status: FINAL



123 Main Street  
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AB12 3CD

# Combined Log

## BH109

SUPPLEMENTARY INFO

<b>Hole Type</b> IP+CP+RC	<b>Easting</b> 431690.05	<b>Northing</b> 431720.05	<b>Ground Level (m)</b> 60.83	<b>Scale</b> 1:50
<b>Project Name</b> A123 Roundabout Improvement	<b>Project No.</b> ABC123	<b>Start Date</b> 2024-03-12	<b>End Date</b> 2024-03-12	

<b>Client</b> National Roads	<b>Contractor</b> The Soil Contractors	<b>Consultant</b> The Soil Engineers
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### Hole Diameter

Base Depth (m)	Hole Diameter (mm)	Remarks
2.50	150	
6.50	100	Cased to full depth

### Casing Diameter

Base Depth (m)	Casing Diameter (mm)	Remarks
2.80	150	
6.50	100	Some difficulty installing casing

### Water Strike - General

Struck (m)	Seal Depth (m)	Casing Depth (m)	Date and Time	Remarks
3.75	2.50	2.00	2024-06-20T12:15	Runoff into hole due to sudden, heavy rain

### Water Strike - Details

Struck (m)	Rose To (m)	Time (mins)	Remarks
3.75	3.70	5	
3.75	3.60	10	Sudden very heavy rainfall for a short time
3.75	3.50	15	
3.75	3.50	20	

### Chiselling

Top Depth (m)	Base Depth (m)	Time Taken	Remarks
6.20	6.50	01:00	Stopped at client's request

### Drilling Progress

Depth (m)	Casing Depth (m)	Water Level (m)	Date and Time	Remarks
2.50			2024-06-20T08:00	Start of shift
6.50	2.80	3.75	2024-06-20T15:30	End of shift

### Flush

Top Depth (m)	Base Depth (m)	Type	Return (min %)	Return (max %)	Remarks
2.50	6.50	Water	80	90	Nothing unusual to remark upon

### Water Added

Top Depth (m)	Base Depth (m)	Volume Added	Method	Remarks
2.50	6.50	20.00	CP+RC	No remarks

### SPT - Details

Top Depth (m)	Type	Results	Casing Depth (m)	Water Depth (m)	Hammer Serial No.	Energy Ratio
1.40	C	N=21 (3,2/5,6,5,5)			HAM123	70
5.10	S	N=50 (6,8/8,9,9,9 for 50m...)	2.80	3.75	HAM789	65

### Depth Related Remarks

Top Depth (m)	Base Depth (m)	Remarks
6.20	6.50	Very hard going in sandstone at this depth

### Remarks

Gas alarm used to monitor borehole location during rotary drilling. No elevated gas levels detected during borehole formation.

### Method, Plant, Stability, Dimensions

0.00 - 0.50m IP JCB  
Stable  
Inclination: 90° Orientation: 210°  
L = 1.20m  
W = 0.85m  
0.50 - 2.50m CP Dando  
2.50 - 6.50m RC Soilmecc SM8G

### Logger

TR  
BW  
TJF

Checked By: Otto Approved By: Magda Status: FINAL

123 Main Street  
Anytown  
Theshire  
AB12 3CD

<b>Hole Type</b> IP+CP+RC	<b>Easting</b> 431690.05	<b>Northing</b> 431720.05	<b>Ground Level (m)</b> 60.83	<b>Scale</b> 1:50
<b>Project Name</b> A123 Roundabout Improvement	<b>Project No.</b> ABC123	<b>Start Date</b> 2024-03-12	<b>End Date</b> 2024-03-12	

<b>Client</b> National Roads	<b>Contractor</b> The Soil Contractors	<b>Consultant</b> The Soil Engineers
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### Photo of some logs



### Another photo of some logs

**Remarks**

Gas alarm used to monitor borehole location during rotary drilling. No elevated gas levels detected during borehole formation.

**Method, Plant, Stability, Dimensions**

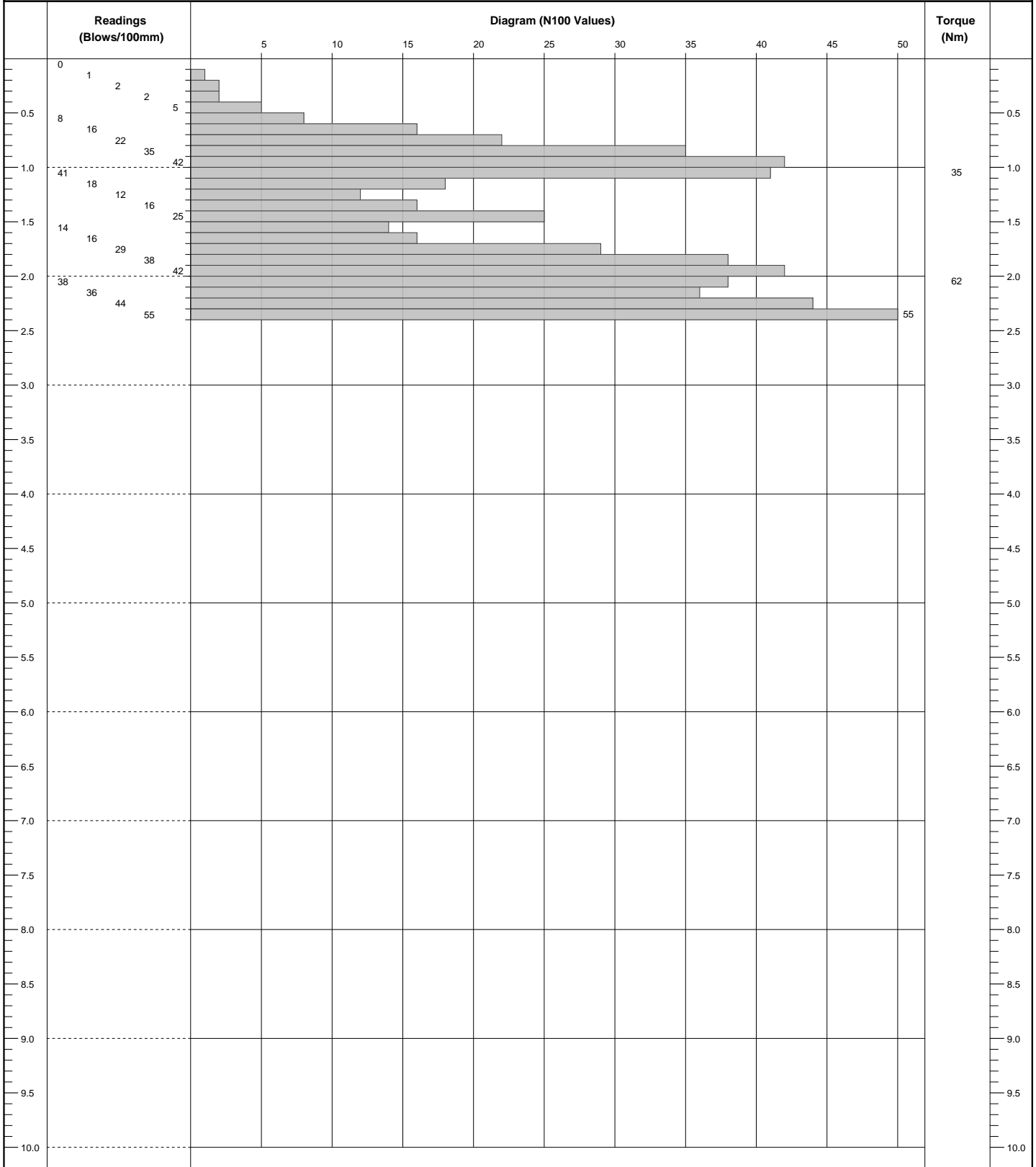
<b>0.00 - 0.50m</b>	IP	JCB	<b>Logger</b> TR
Stable			
Inclination: 90° Orientation: 210°			
L = 1.20m			
W = 0.85m			
<b>0.50 - 2.50m</b>	CP	Dando	BW
<b>2.50 - 6.50m</b>	RC	Soiltec SM8G	TJF

Checked By: Otto Approved By: Magda Status: FINAL

123 Main Street  
Anytown  
Theshire  
AB12 3CD

<b>Probe Type</b> DPSH	<b>Easting</b> 431680.00	<b>Northing</b> 431565.00	<b>Ground Level (m)</b> 55.80	<b>Scale</b> 1:50
<b>Project Name</b> A123 Roundabout Improvement	<b>Project No.</b> ABC123	<b>Start Date</b> 2024-03-12	<b>End Date</b> 2024-03-12	

<b>Client</b> National Roads	<b>Contractor</b> The Soil Contractors	<b>Consultant</b> The Soil Engineers
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<b>Remarks</b> Terminated due to an obstruction	<b>Method, Plant</b> 0.00 - 2.40m DP Dynamic probe	<b>Logger</b> BW
	<b>Hammer Weight (kg)</b> 63.0 <b>Hammer Drop (mm)</b> 750 <b>Cone Diameter (mm)</b> 50 <b>Cone Angle</b> 90 <b>Rod Diameter (mm)</b> 35 <b>Damper</b> None	
<b>Checked By:</b> Otto <b>Approved By:</b> Magda <b>Status:</b> FINAL		

123 Main Street  
Anytown  
Theshire  
AB12 3CD

Hole Type  
IP

Easting  
431685.00

Northing  
431571.00

Ground Level (m)  
58.20

Scale  
1:25

Project Name  
A123 Roundabout Improvement

Project No.  
ABC123



Start Date  
2024-03-12

End Date  
2024-03-12

Client  
National Roads

Contractor  
The Soil Contractors

Consultant  
The Soil Engineers

Inst/ Backfill	Water Levels	Samples and Tests			Level (m)	Depth (m)	Strata	
		Depth (m)	Type/ Ref	Results			Legend	Description
		1.40	PP	30 (kPa)	56.40	1.80		MADE GROUND Bricks (1.20 - 1.30m)
		2.10 - 2.20	B 3	Blows: 12, Recovery: 90%	55.00	3.20		Silty sandy CLAY
								End of Trial Pit at 3.20m

## Remarks

All sides similar

## Method, Plant, Stability, Dimensions

0.00 - 3.20m IP Hand tools

Stable

Inclination: 90° Orientation: 205°

L = 1.10m

W = 0.90m

## Logger

BW

Checked By: Otto Approved By: Magda Status: FINAL



# Hand Pit

## TP01

SUPPLEMENTARY INFO

123 Main Street  
Anytown  
Theshire  
AB12 3CD

<b>Hole Type</b> IP	<b>Easting</b> 431685.00	<b>Northing</b> 431571.00	<b>Ground Level (m)</b> 58.20	<b>Scale</b> 1:25
<b>Project Name</b> A123 Roundabout Improvement		<b>Project No.</b> ABC123	<b>Start Date</b> 2024-03-12	<b>End Date</b> 2024-03-12


<b>Client</b> National Roads	<b>Contractor</b> The Soil Contractors	<b>Consultant</b> The Soil Engineers
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### Driller's Descriptions

Top Depth (m)	Base Depth (m)	Description
0.00	3.20	This is the driller's log, but it will be ignored if the GEOL sheet is populated!

**Remarks**  
All sides similar

**Method, Plant, Stability, Dimensions** **Logger**

0.00 - 3.20m IP Hand tools BW  
 Stable  
 Inclination: 90° Orientation: 205°  
 L = 1.10m  
 W = 0.90m

Checked By: Otto Approved By: Magda Status: FINAL

# Example Section

123 Main Street  
Anytown  
Theshire  
AB12 3CD

**Project Name**  
A123 Roundabout Improvement

**Project No.**  
ABC123

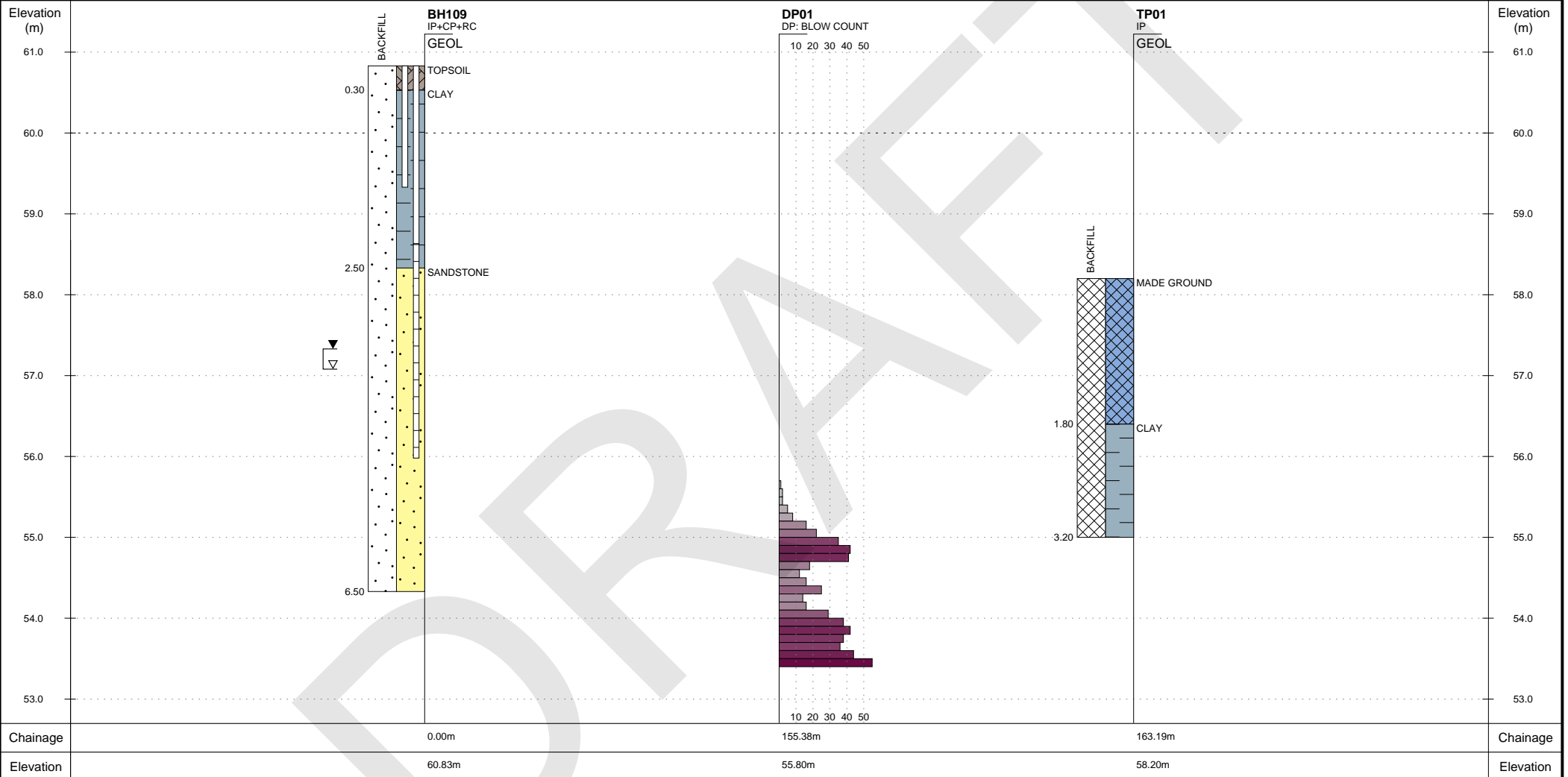
**Vertical Scale**  
1:70

**Horizontal Scale**  
NOT SCALED

**Client**  
National Roads

**Contractor**  
The Soil Contractors

**Consultant**  
The Soil Engineers



TOPSOIL
  MADE GROUND
  CLAY
  SANDSTONE
  Sand Backfill
  Arisings

**WATER LEVELS**

REST  
 STRIKE

Checked By: Otto Approved By: Magda