



A review of the initial foundation zonation has been undertaken against the data provided by the Contractor following the enabling works. The following records were provided:

- VHEJ808-101 Base of Excavation
- VHEJ808-102 Materials Impacting Base of Excavation REVA
- VHEJ808-201 Finished Level As-Built
- VHEJ808-701 Soft Spots
- VHEJ808-702 Soft Spots on RDC Areas REVA

The relevant data is overlayed onto the foundation zonation plan. Following the review, no change to the preliminary foundation zonation is proposed.

-  Vibro Ground Improvement below foundations to account for residual Made Ground and low strength soils.
-  Piled Foundations due to organic soils and/or deep residual Made Ground.
-  Shallow foundations in areas where all Made Ground is removed and competent strata is within 3m of FGL or where combined thickness of fill and Made Ground is <3m. Subject to removal of substation and associated infrastructure
-  Areas where natural clays were encountered shallower than design Base of Dig (BOD) level (VHE drawing VHEJ808-102 RevA)
-  Areas where Peat has been removed lower than design BOD level (VHE drawing VHEJ808-102 RevA)
-  Peat and organic soils placed into borrow pit (VHE drawing VHEJ808-102 RevA)
-  As built thickness of engineered fill (Class 1 or 2) following over-excavation and cut to fill.
-  Recorded and remediated soft spots

KEY

NOTES

1. Figured dimensions only are to be taken from this drawing.
2. This drawing is to be read in conjunction with the GDR reference 15220-HYD-XX-XX-RP-GE-0005-P02 and Verification Report ref 15220-HYD-XX-XX-RP-GE-1001.
3. This drawing has been based on the following drawings and information:
 - Harworth Estates. August 2020. Illustrative Masterplan. Drawing Reference: HAR001MP01, Rev B.
 - VHE As Built Records listed
4. This drawing is preliminary and does not constitute a foundation design. Additional detailed foundation design (and VSC ground improvement design) is required.

REVIEWED FOLLOWING COMPLETION OF ENABLING WORKS.					
P2	D. FRY	04/09/23	D. LALLY	08/09/23	08/09/23
FIRST ISSUE					
P1	D. FRY	29/04/22	A. CHEERS	29/04/22	29/04/22
REVISION NOTES/COMMENTS					
REV.	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY DATE



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HARWORTH ESTATES

PROJECT

STOPES ROAD, BOLTON

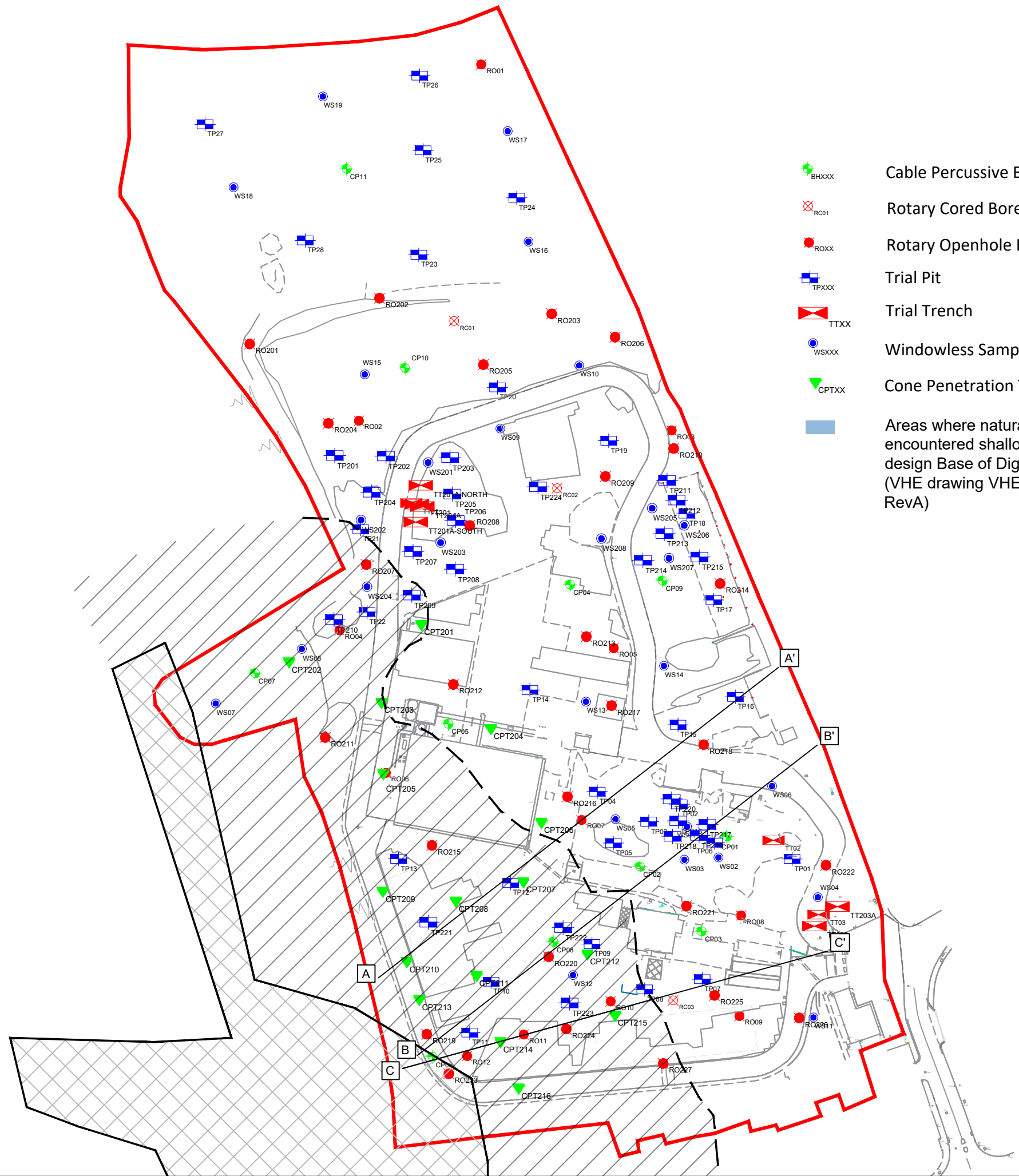
TITLE			
PRELIMINARY FOUNDATION ZONATION PLAN			
HYDROCK PROJECT NO.		SCALE @ A3	
C-15220		1:1500	
PURPOSE OF ISSUE			STATUS
SUITABLE FOR INFORMATION			S2
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER)			REVISION
15220-HYD-XX-XX-DR-GE-8002			P2

Appendix H Updated Ground Model and Cross Sections

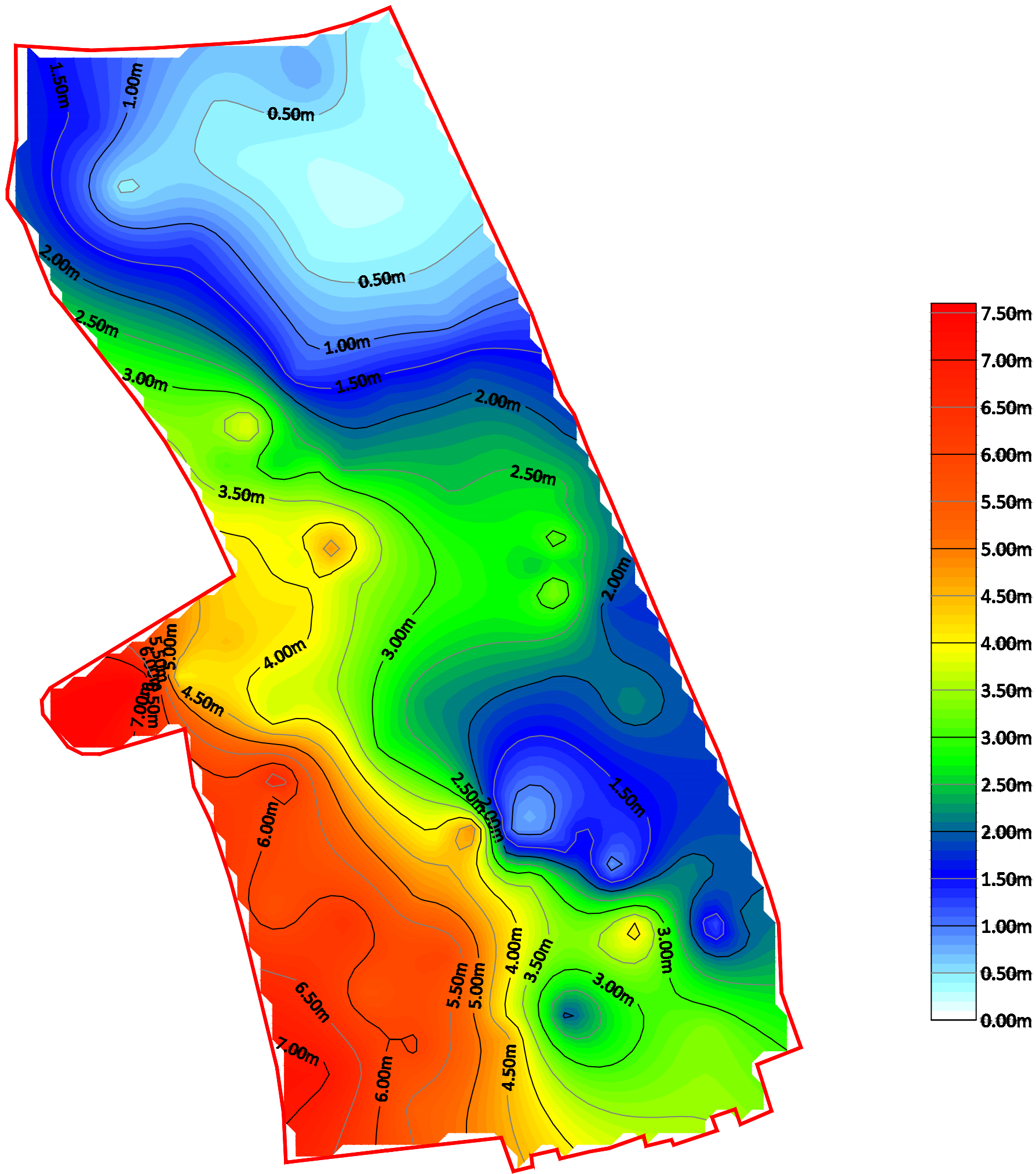


EXPLORATORY HOLE LOCATION PLAN

- Approximate offsite location of historic Atlas Brick Work Clay Pit and possible former unlicensed opencast
- Extent of opencast workings (deep Made Ground over 4m bgl) extending onto site based on Ground Investigation.
- Location of interface between the Made Ground associated with the backfilled opencast workings and natural soils



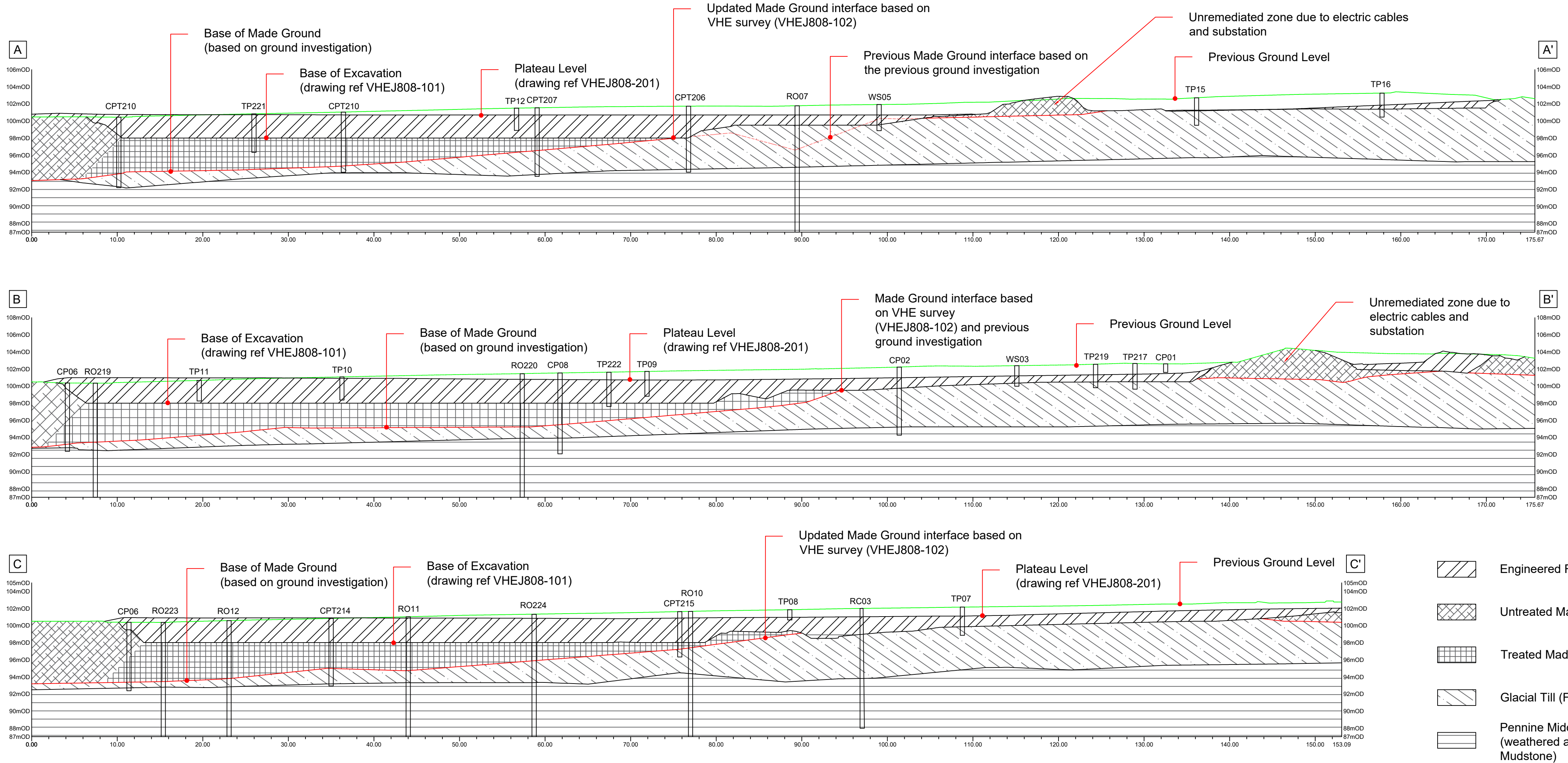
DEPTH OF MADE GROUND (based on previous investigation)



KEY

NOTES

- Figured dimensions only are to be taken from this drawing.
- This drawing is to be read in conjunction with the Hydrock Verification Report reference 15220-HYD-XX-XX-RP-GE-1001.
- This drawing has been based on the following drawings and information:
 - Ground investigation 15220-HYD-XX-XX-RP-GE-0003_S2-P02
 - Supplementary Ground Investigation 15220-HYD-XX-XX-RP-GE-0004_S2-P02
 - VHE Drawing VHEJ808-101 Base of Excavation
 - VHE Drawing VHEJ808-102 Materials Impacting Base of Excavation
 - VHE Drawing VHEJ808-201 Finished Level As-Built
- The purpose of this drawing is a study of the existing ground model (Hydrock drawing 15220-HYD-XX-XX-DR-GE-1008-Ground Model-P2) and comparison with the findings and survey information provided on completion of the enabling works. A series of cross section are shown illustrating the interface between the residual Made Ground, engineered fill and natural soils updated following completion of the enabling works.



- Engineered Fill
- Untreated Made Ground
- Treated Made Ground (RDC)
- Glacial Till (Firm gravelly Clay)
- Pennine Middle Coal Measures (weathered and less weathered Mudstone)

P1	FIRST ISSUE					
	DF	11/10/23	AC	11/10/23	AC	11/10/23
REV.	REVISION NOTES/COMMENTS					
	DRAWN BY	DATE	CHECKED BY	DATE	APPROVED BY	DATE
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HARWORTH ESTATES PROPERTY GROUP						
PROJECT						
STOPES ROAD, BOLTON						
TITLE						
UPDATED GROUND MODEL SHOWING INTERFACE WITH RESIDUAL MADE GROUND AND NATURAL SOILS						
HYDROCK PROJECT NO. C-15220			SCALE @ A1 1:1500 (PLANS)			
PURPOSE OF ISSUE SUITABLE FOR INFORMATION					STATUS S2	
DRAWING NO. (PROJECT CODE-ORIGINATOR-ZONE-LEVEL-TYPE-ROLE-NUMBER) 15220-HYD-XX-XX-DR-GE-1032					REVISION P1	