

IMPORTANT CONSTRUCTION NOTES

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2. ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
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4. ONLY FIGURED DIMENSIONS ARE TO BE USED. ANY QUERIES MUST BE REFERRED TO DFS.
5. 50mm COVER TO PILE REINFORCEMENT.
6. STRICT SUPERVISION OF BULK EARTH WORKS IS REQUIRED TO ENSURE THAT EXCAVATIONS DO NOT EXCEED THE DESIGN DEPTH SHOWN IN THESE DRAWINGS (4.85m).
7. SECANT PILE WALL SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ICE SPECIFICATIONS FOR PILING AND EMBEDDED RETAINING WALLS (ICESPERW, 2016).
8. THE SECANT PILE WALL IS DESIGNED FOR BOTH TEMPORARY AND PERMANENT USE.

SECANT PILE WALL LAYOUT
(SCALE 1:50)

HEALTH, SAFETY AND ENVIRONMENT

1. THIS GEO-STRUCTURAL DESIGN HAS BEEN CARRIED OUT AND REVIEWED IN ACCORDANCE WITH THE CONSTRUCTION, DESIGN & MANAGEMENT (CDM) REGULATIONS 2015 AND DOES NOT INCLUDE ANY ABNORMAL RISK ITEM THAT A COMPETENT CONTRACTOR WOULD NOT BE AWARE OF WHEN UNDERTAKING CONSTRUCTION WORKS SHOWN.
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HEALTH, SAFETY AND ENVIRONMENT

7. IN ADDITION TO THE RISK/HAZARD TYPICALLY ASSOCIATED WITH THE GROUND ENGINEERING WORKS DETAILED IN THIS DRAWING, ADDITIONAL SITE/WORK-SPECIFIC HAZARDS HAVE BEEN IDENTIFIED THROUGH DESIGN RISK ASSESSMENT. THESE ARE OUTLINED IN 7.1 – 7.4 BELOW. ALL SITE OPERATIONS MUST ACCOUNT FOR ALL USUAL AND SITE/WORK-SPECIFIC HAZARDS.
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CLIENT

BROXWOOD VIEW LIMITED

JOB TITLE

BROXWOOD VIEW, 29 ST.
EDMUND'S TERRACE LONDON
NW8 7QH

DRAWING TITLE

SECANT PILE WALL LAYOUT

DATE

16 OCT 2022

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DRAWING NO.

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SCALE

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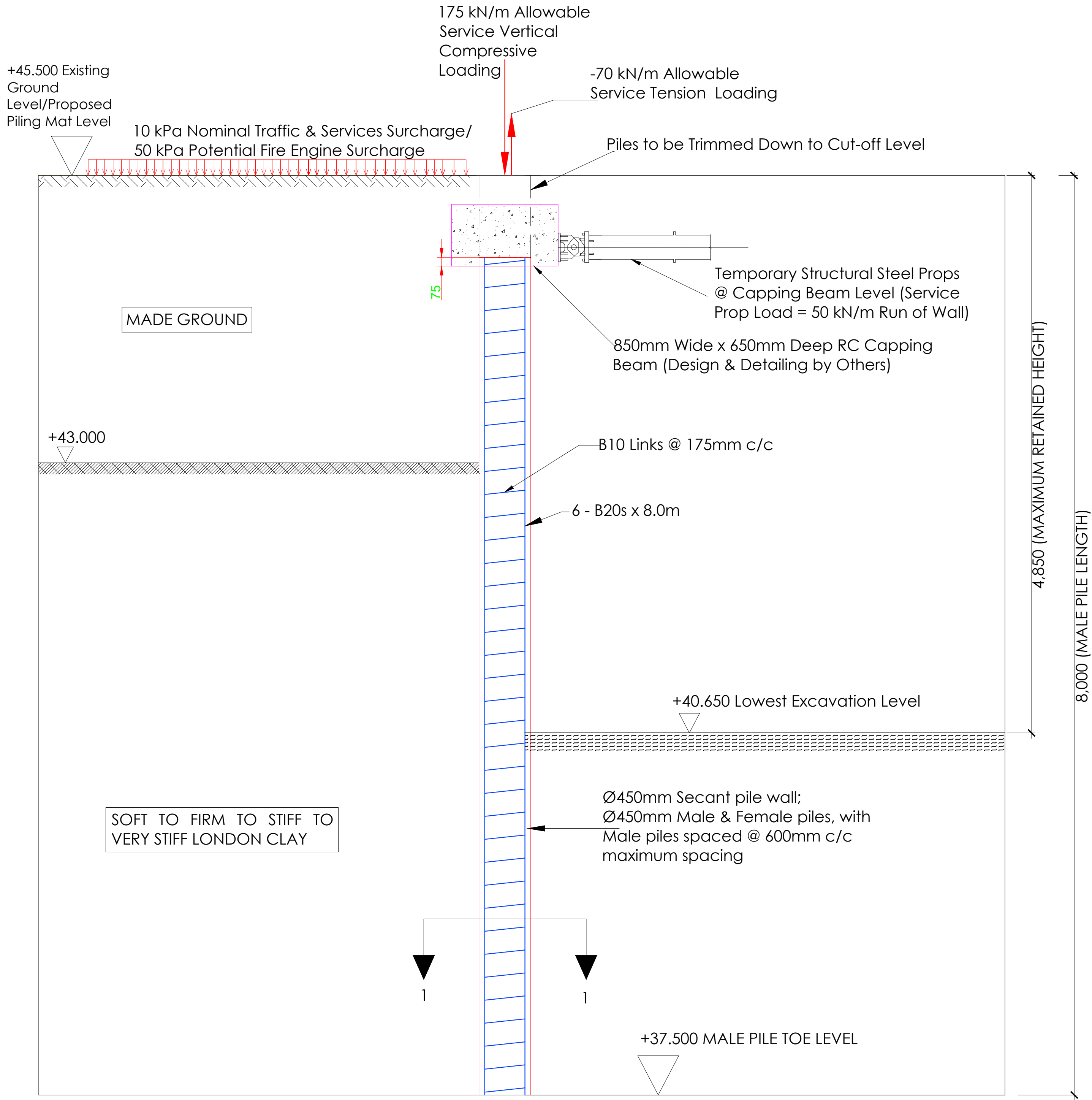
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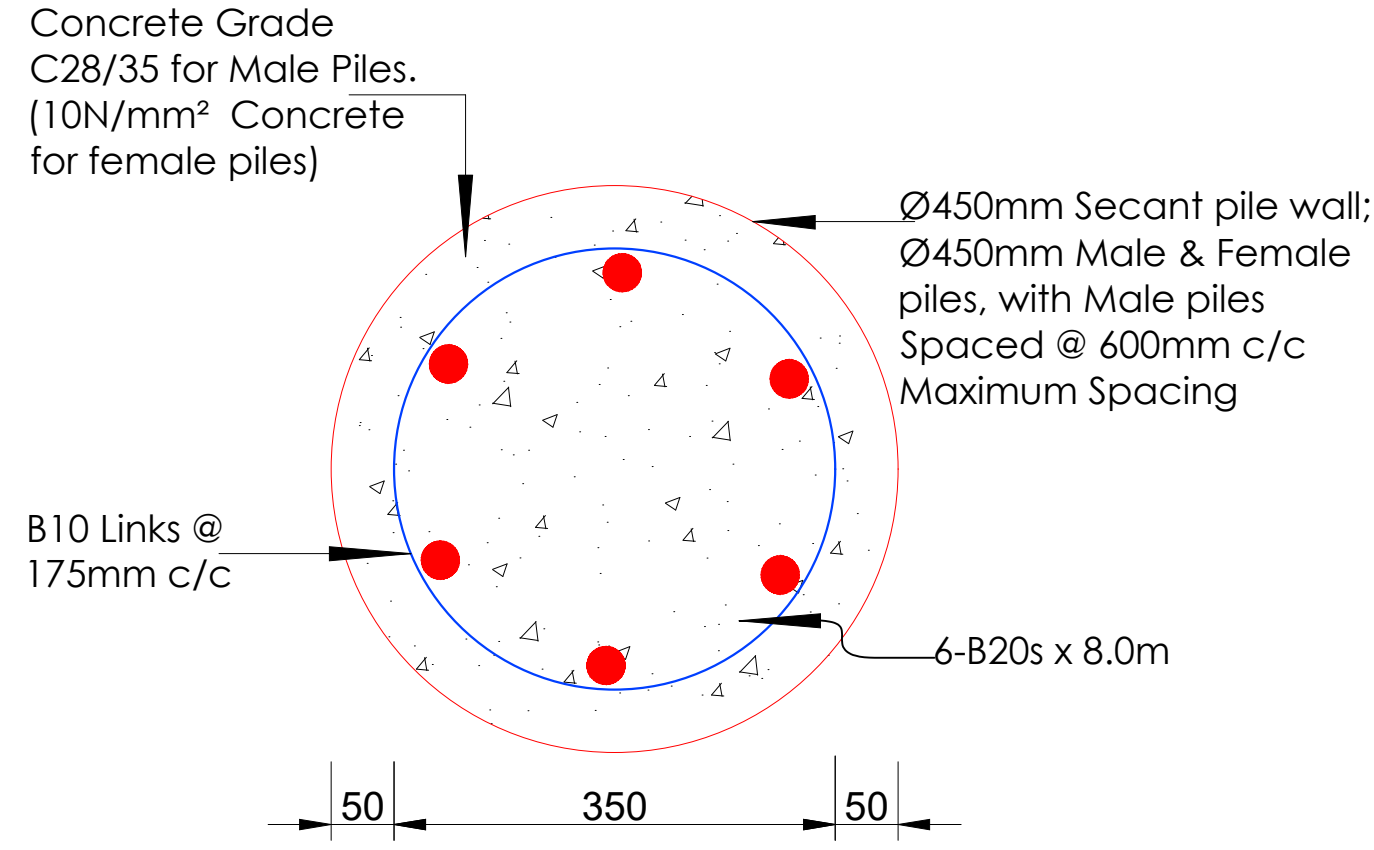
EXPECTED MAXIMUM WALL
LATERAL DEFLECTION < 5mm

INSTALL FEMALE PILES TO 6.0m
DEPTH ONLY

STRICT SUPERVISION OF BULK EXCAVATION BY MAIN
CONTRACTOR IS REQUIRED, SO AS TO ENSURE THAT BULK
EXCAVATION DOES NOT PROGRESS BELOW THE DIG
DEPTH SHOWN IN THIS DRAWING



TYPICAL SECANT PILE WALL SECTION (SCALE 1:25)



SECTION 1-1 (SCALE 1:6)

PROPOSED SEQUENCE OF CONSTRUCTION:

TYPICAL PILE WALL SECTION (Ø450 PERIMETER SECANT PILE WALL, PROPPED)

- A. STRIP THE EXISTING GROUND TO A MAXIMUM DEPTH OF 300mm AND SUBSEQUENTLY PLACE AND COMPACT CAREFULLY SELECTED CLASS 6F2 GRANULAR FILL TO FORM SUITABLE WORKING PLATFORM FOR PILING RIG AND OTHER CONSTRUCTION MACHINERY.
- B. INSTALL TEMPORARY GUIDE WALL PRIOR TO THE COMMENCEMENT OF SECANT PILE WALL CONSTRUCTION.
- C. CONCURRENTLY INSTALL Ø450 INTERLOCKING MALE AND FEMALE PILES BY CFA DRILLING TECHNIQUE, WITH MALE PILES SPACED @ 600MM C/C, FROM PILING PLATFORM LEVEL (+45.500) TO DEPTHS SPECIFIED BY DFS, TO FORM SECANT PILE WALL, AS WELL AS THE Ø350 BEARING PILES REQUIRED FOR THE PROPOSED UNDERPINNING WORKS UNDERNEATH THE EXISTING NORTHERN WALL OF BARRIE HOUSE; SEE DFS' PILE WALL CONSTRUCTION SCHEDULE AND BEARING PILE CONSTRUCTION SCHEDULE FOR MORE DETAILED INFORMATION.
- D. BREAK DOWN PILES TO 75MM ABOVE PROPOSED SOFFIT LEVEL OF RC CAPPING BEAM.
- E. CONSTRUCT RC CAPPING BEAMS ON PILES.
- F. CARRY OUT SEGMENTAL UNDERPINNING OF THE EXISTING PAD AND STRIP FOOTINGS UNDERNEATH THE NORTHERN WALL OF THE EXISTING BARRIE HOUSE BUILDING, AS DETAILED BY THE PROJECT STRUCTURAL ENGINEER (SEE RICHARD TANT ASSOCIATES' DRAWINGS NO'S 5295-P02, 5295-P04, 5295-P13, 5295-P15, 5295-P17, 5295-P18, 5295-P19, 5295-PSM01 & 5295-PSM02 FOR MORE DETAIL'S).
- G. INSTALL TEMPORARY STRUCTURAL STEEL WALING BEAM ALONG THE FACE OF SEGMENTAL UNDERPINNING RETAINING WALL AROUND CREST LEVEL.
- H. INSTALL TEMPORARY PROPS AT CAPPING BEAM LEVEL/WALING BEAM LEVEL OF PILE WALL AND UNDERPINNING WALL.
- I. CARRY OUT BULK EXCAVATION DOWN TO BASEMENT FORMATION LEVEL; 4.85M MAXIMUM DIG.
- J. PLACE BLINDING OF 50MM MINIMUM THICKNESS AT FORMATION LEVEL.
- K. INSTALL/FIX WATER-PROOF MEMBRANE ON PLACED BLINDING, AS WELL AS FACE OF PILE RETAINING WALL/SEGMENTAL UNDERPINNING WALL AND WRAP AROUND CAPPING BEAM.
- L. CONSTRUCT 600MM THICK REINFORCED CONCRETE RAFT/LOWER GROUND FLOOR SLAB WITH WATER-PROOF CONCRETE AND DOWEL INTO PILE RETAINING WALL/SEGMENTAL UNDERPINNING WALL, WHILST MAKING ALLOWANCE FOR CAVITY DRAIN IN FRONT OF RETAINING WALLS.
- M. CONSTRUCT RC LINER WALL OF 250MM MINIMUM THICKNESS WITH WATER-PROOF CONCRETE, IN FRONT OF PILE RETAINING WALL, FROM BASEMENT LEVEL, UP TO CAPPING BEAM SOFFIT LEVEL AND CONNECT SAME TO CAPPING BEAM.
- N. CONSTRUCT GROUND FLOOR SLAB AND CONNECT SAME TO CAPPING BEAM.
- O. REMOVE TEMPORARY PROPS AND STRUCTURAL STEEL WALLING BEAM.
- P. CONSTRUCT SUPERSTRUCTURE.

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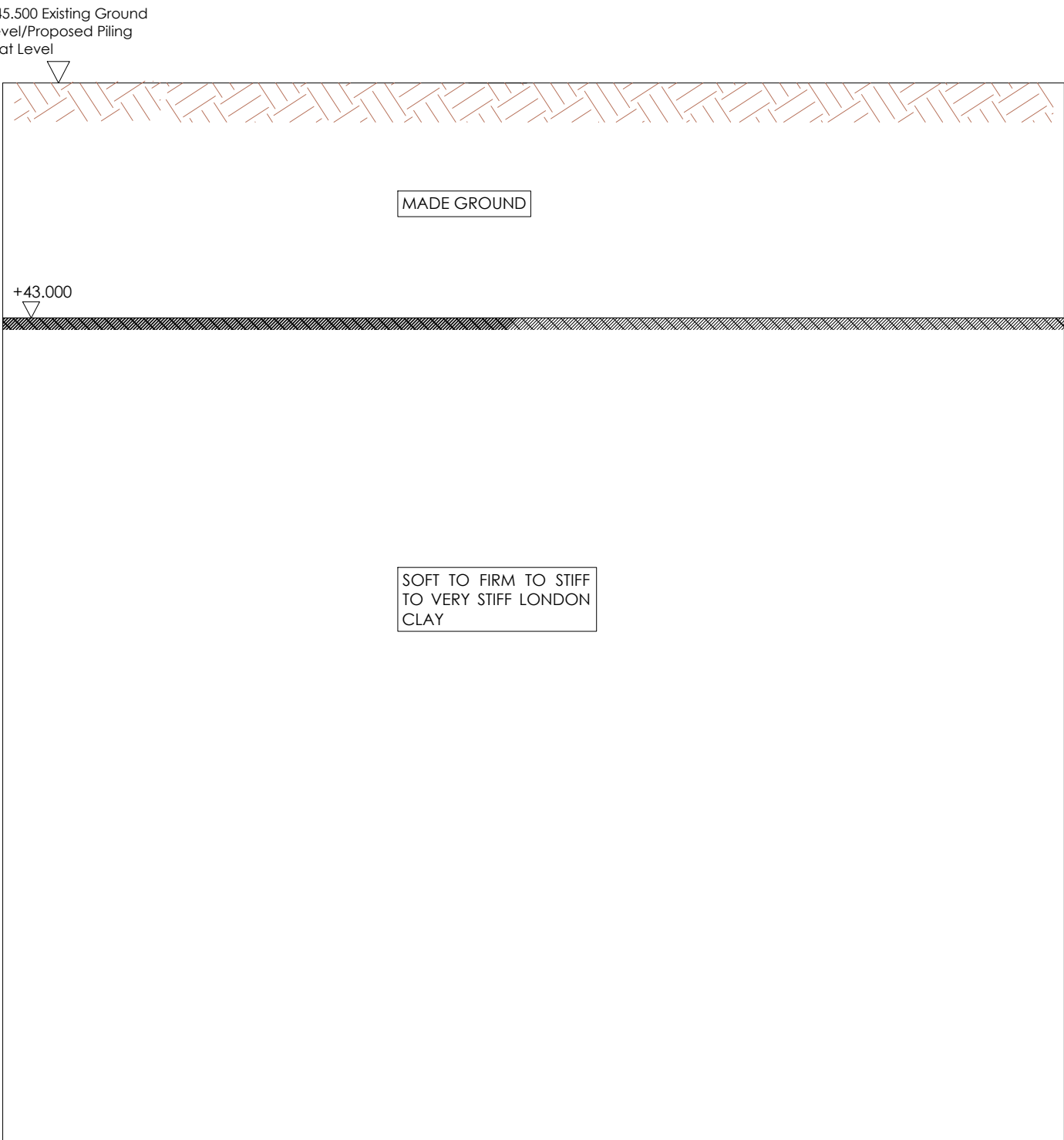
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DRAWING TITLE
TYPICAL SECANT PILE WALL SECTION

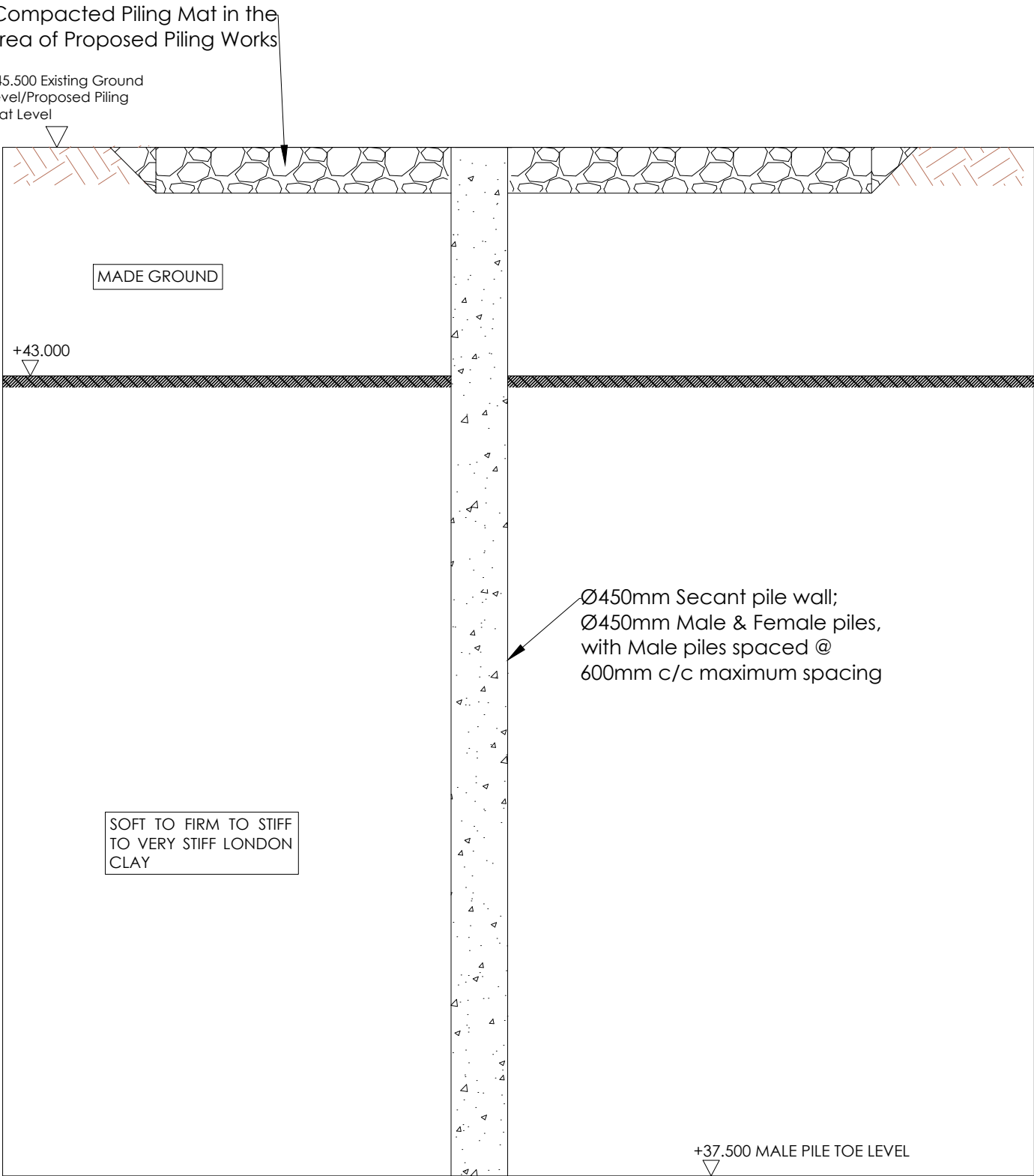
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HEALTH, SAFETY AND ENVIRONMENT

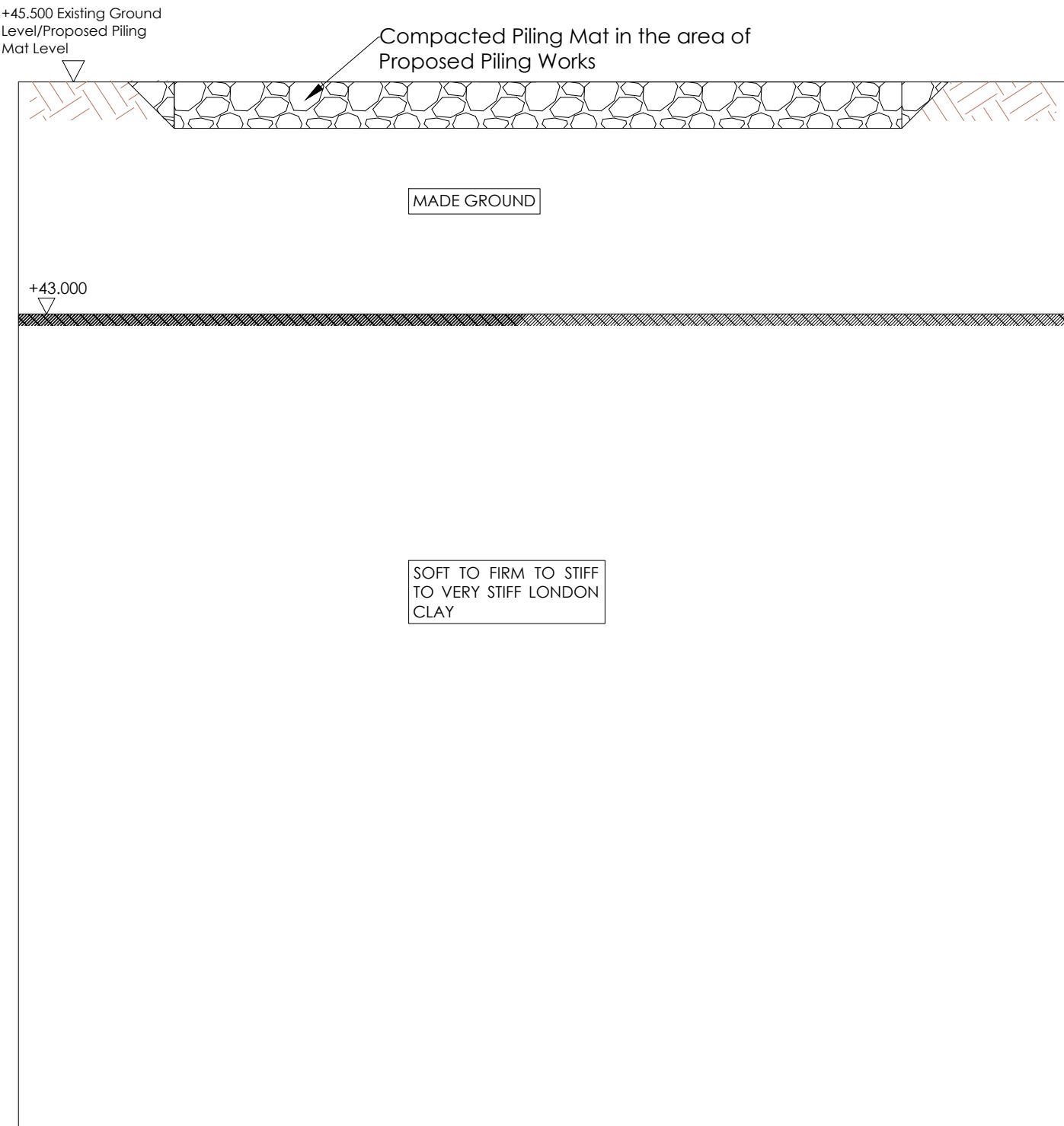
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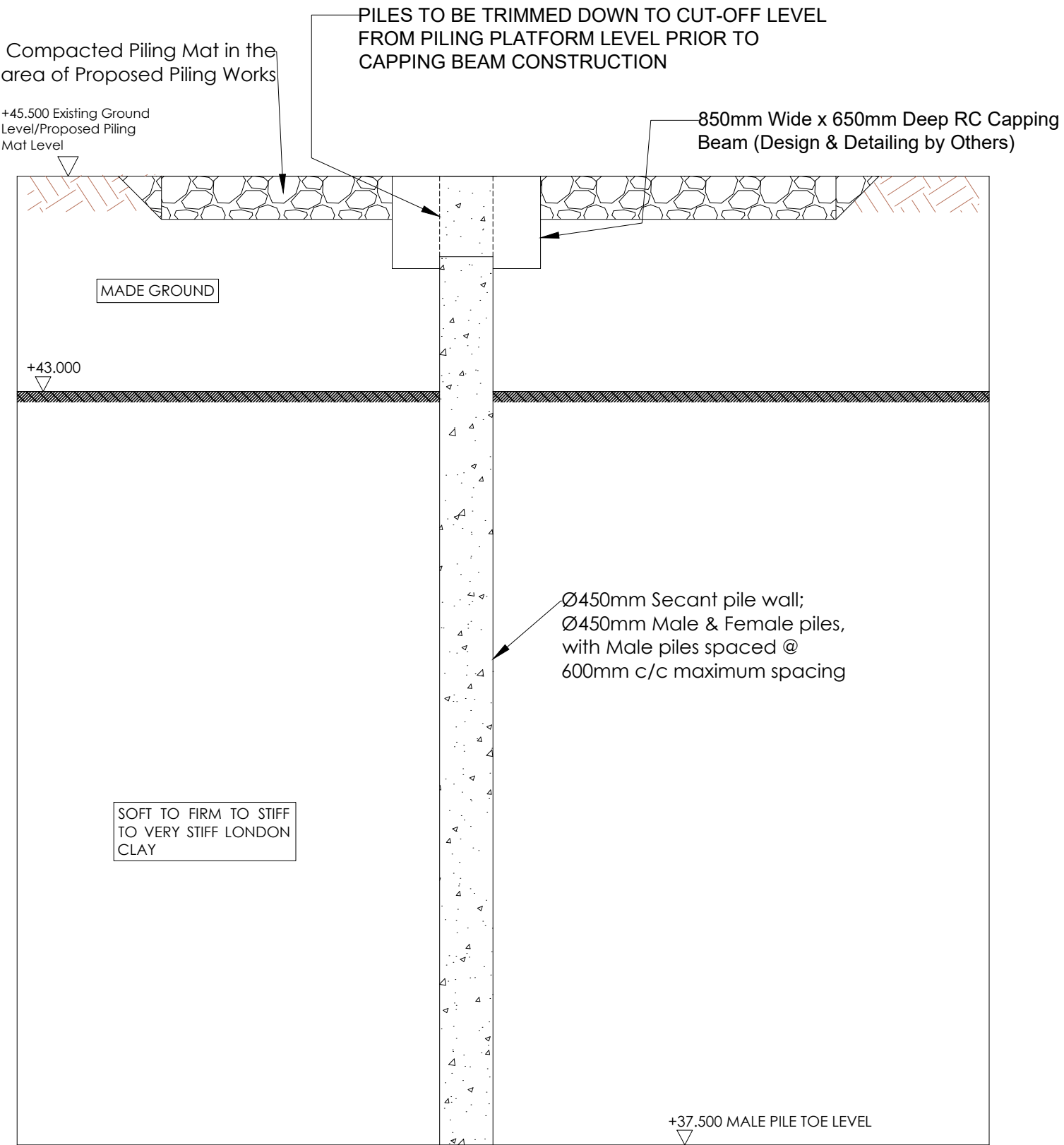
STAGE 0:
PRE-PILING SITE CONDITIONS



STAGE 2:
CONCURRENTLY INSTALL Ø450 INTERLOCKING MALE AND FEMALE PILES BY CFA DRILLING TECHNIQUE, WITH MALE PILES SPACED @ 600MM C/C, FROM PILING PLATFORM LEVEL (+45.500) TO DEPTHS SPECIFIED BY DFS, TO FORM SECANT PILE WALL, AS WELL AS THE Ø350 BEARING PILES REQUIRED FOR THE PROPOSED UNDERPINNING WORKS UNDERNEATH THE EXISTING NORTHERN WALL OF BARRIE HOUSE.



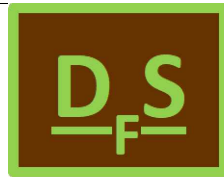
STAGE 1:
STRIP THE EXISTING GROUND AND SUBSEQUENTLY PLACE AND COMPACT PILING MAT IN THE AREA OF PROPOSED PILING WORKS.



STAGE 3:
BREAK DOWN PILES TO 75MM ABOVE PROPOSED SOFFIT LEVEL OF RC CAPPING BEAM AND CONSTRUCT RC CAPPING BEAM ON PILES.

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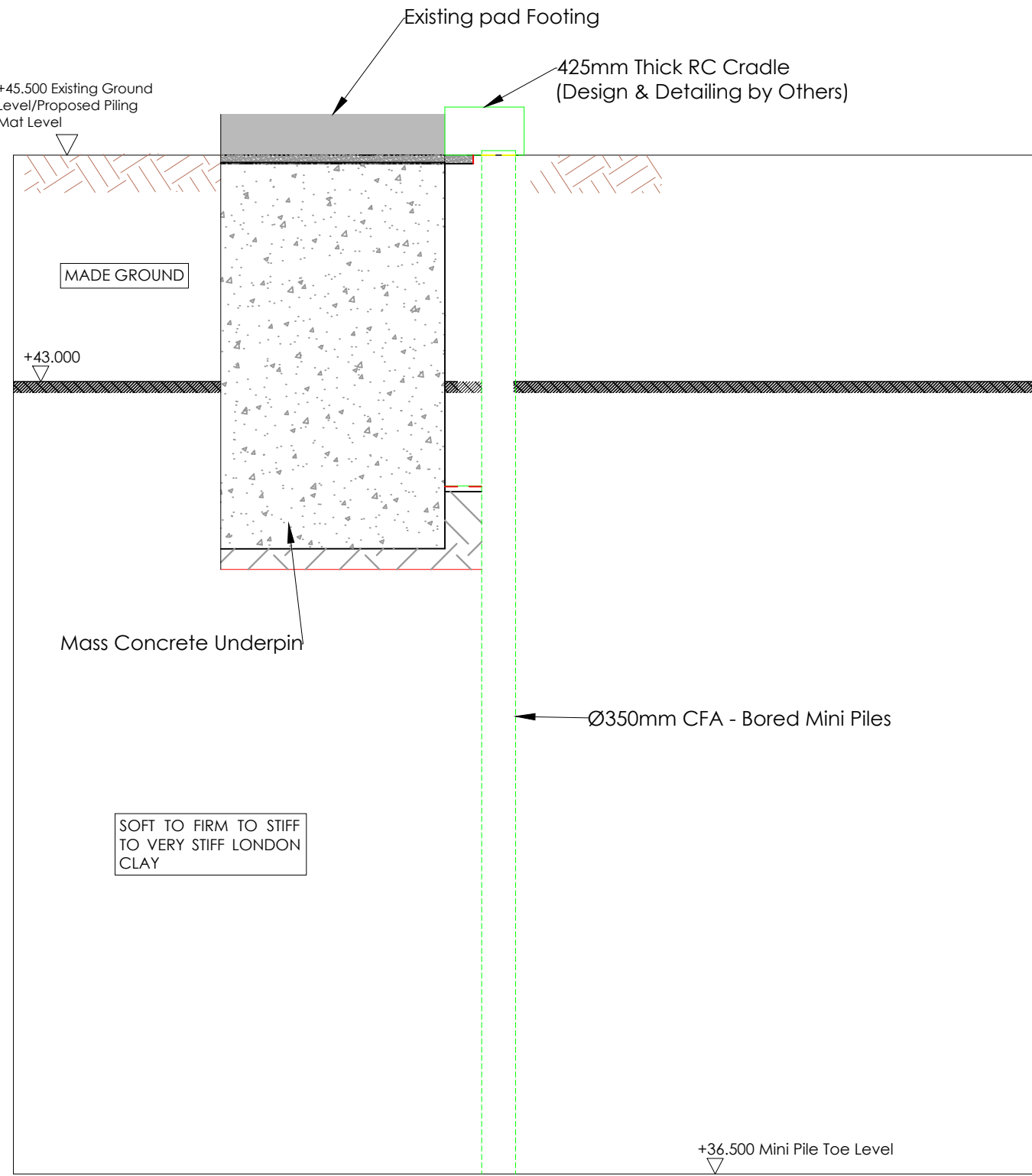
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|---------------|---|--|--|
| CLIENT | BROXWOOD VIEW LIMITED | | |
| JOB TITLE | BROXWOOD VIEW, 29 ST. EDMUND'S TERRACE LONDON NW8 7QH | | |
| DRAWING TITLE | PROPOSED CONSTRUCTION SEQUENCE SHEET -1 | | |

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| DATE | 16 OCT 2022 | DRAWN | AR | CHECKED | AA |
| DRAWING No | DFS221011-03 | REV | 00 | SCALE | SCALE IS AS SHOWN @ A1 |

HEALTH, SAFETY AND ENVIRONMENT

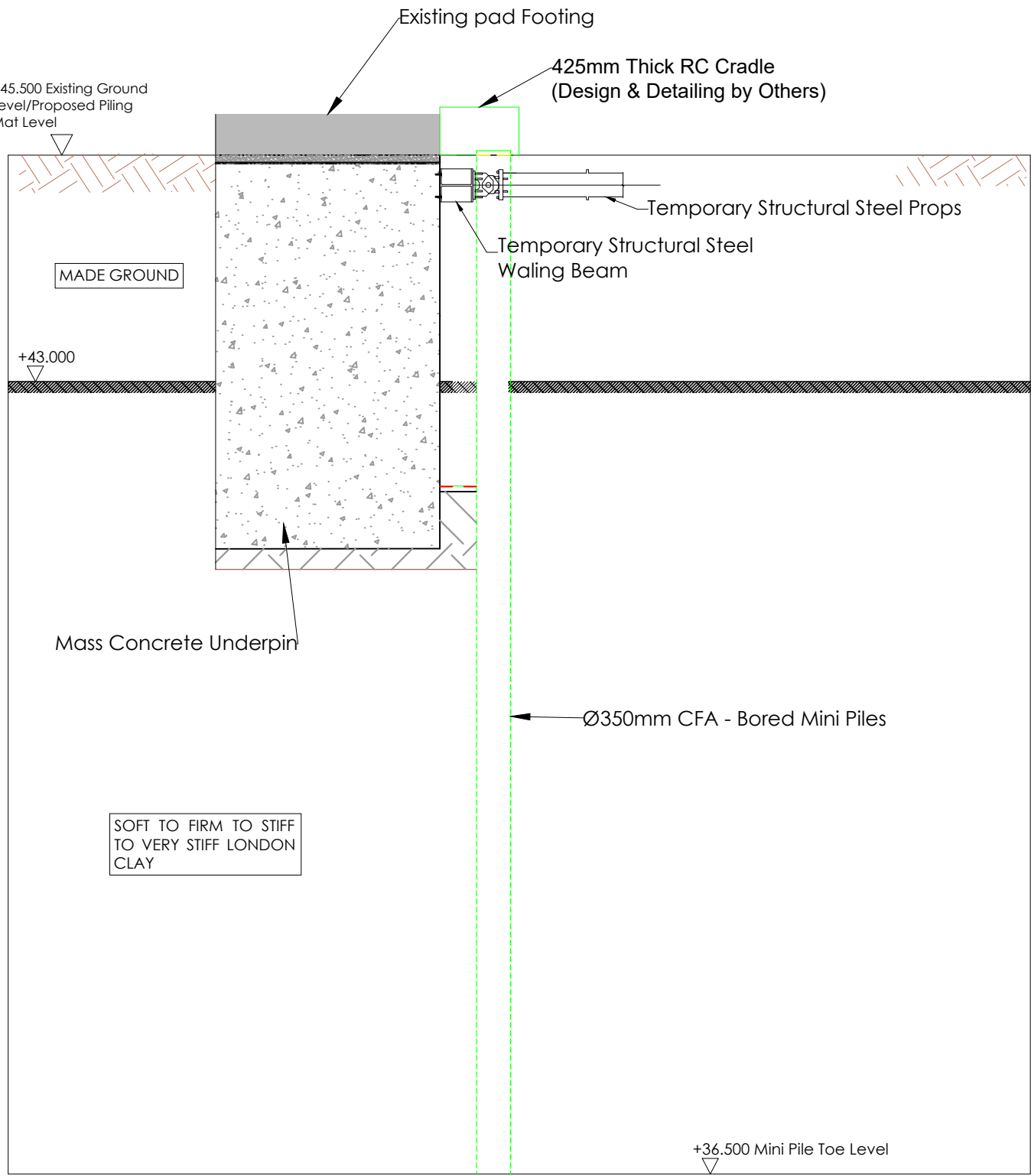
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- 7.4. IN ADDITION, IT IS IMPERATIVE THAT THE CONCRETE MIX DESIGN FOR THE MALE PILES IN THE SECANT WALL ACCOUNTS FOR 10MM MAXIMUM AGGREGATE SIZE AND SET-RETARDING ADMIXTURES IN ORDER TO EASE THE INSTALLATION OF REINFORCEMENT CAGES INTO CONCRETED DRILLHOLES. REINFORCEMENT CAGE VIBRATORS MAY ALSO BE REQUIRED TO FORCE THE STEEL CAGES DOWN TO THE DESIGN DEPTHS.



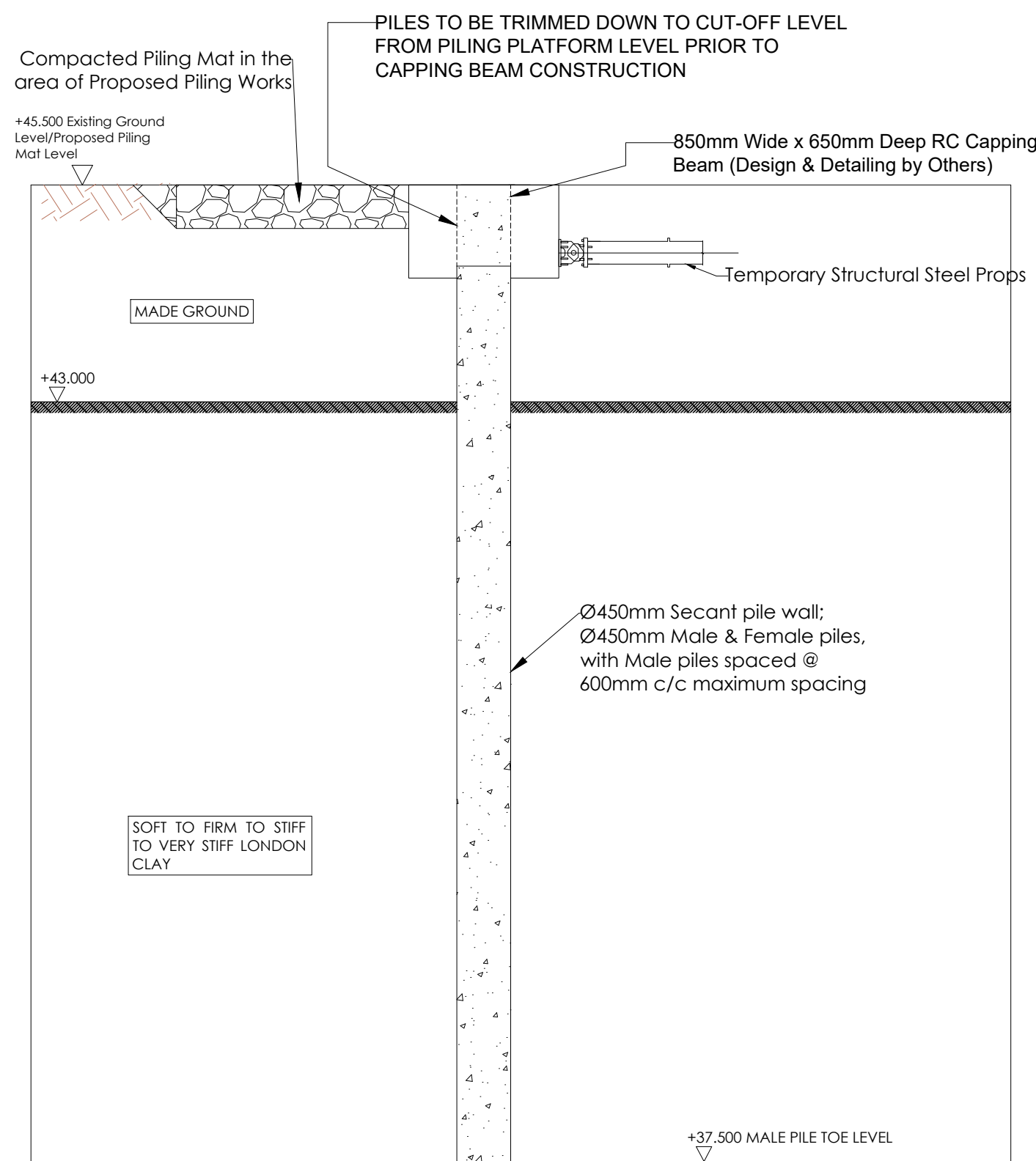
STAGE 4:

CARRY OUT SEGMENTAL UNDERPINNING OF THE EXISTING PAD AND STRIP FOOTINGS UNDERNEATH THE NORTHERN WALL OF THE EXISTING BARRIE HOUSE BUILDING, AS DETAILED BY THE PROJECT STRUCTURAL ENGINEER (SEE RICHARD TANT ASSOCIATES' DRAWING NO'S 5295-P02, 5295-P04, 5295-P13, 5295-P15, 5295-P17, 5295-P18, 5295-P19, 5295-PSM01 & 5295-PSM02).



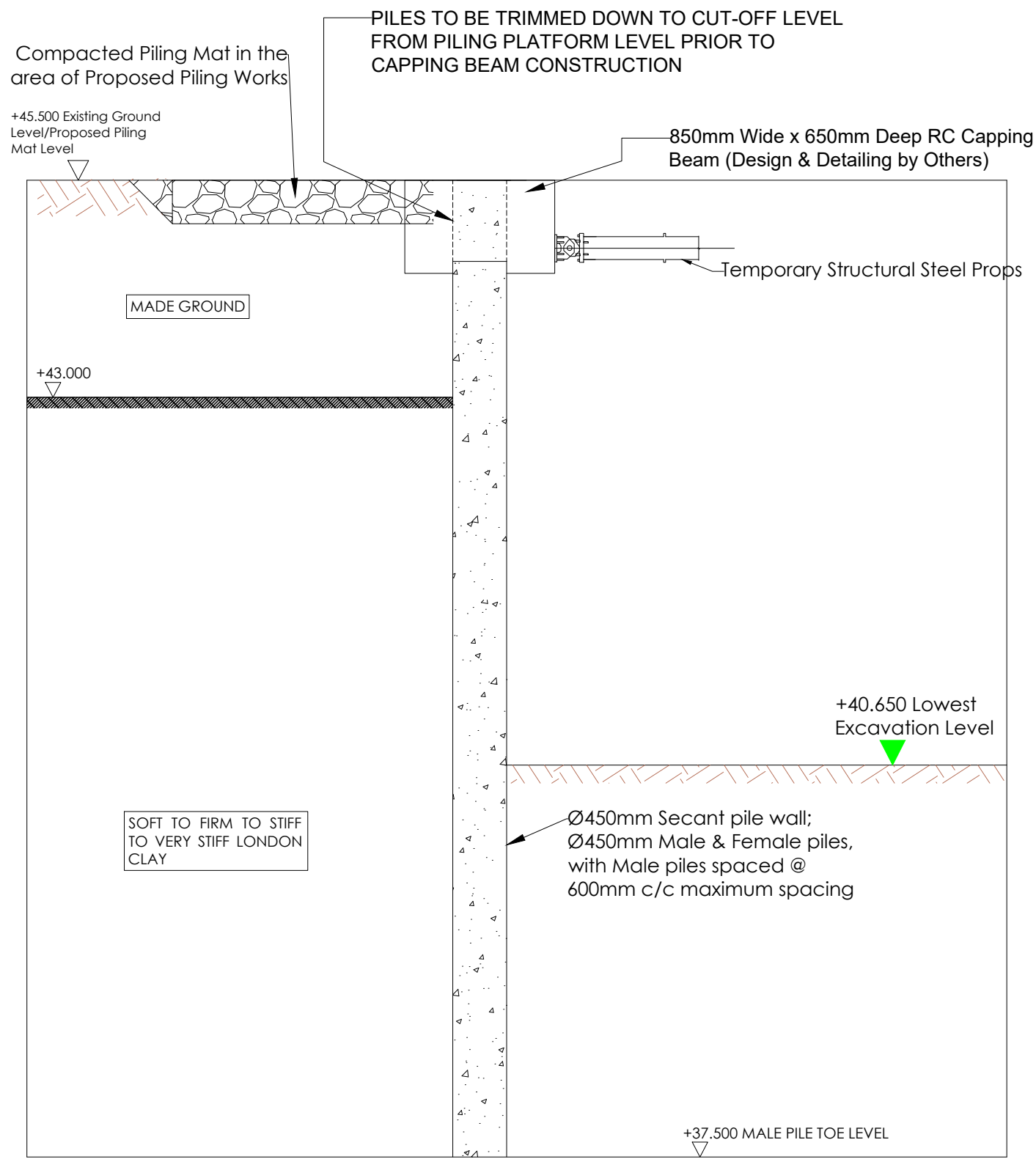
STAGE 5:

INSTALL TEMPORARY STRUCTURAL STEEL WALING BEAM & TEMPORARY PROPS ALONG THE FACE OF SEGMENTAL UNDERPINNING RETAINING WALL AROUND CREST LEVEL.



STAGE 6:

INSTALL TEMPORARY PROPS AT CAPPING BEAM LEVEL OF PILE WALL.



STAGE 7:

CARRY OUT BULK EXCAVATION DOWN TO BASEMENT FORMATION LEVEL; 4.85M MAXIMUM DIG.

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4. ONLY FIGURED DIMENSIONS ARE TO BE USED. ANY QUERIES MUST BE REFERRED TO DFS.
5. 50mm COVER TO PILE REINFORCEMENT.
6. STRICT SUPERVISION OF BULK EARTH WORKS IS REQUIRED TO ENSURE THAT EXCAVATIONS DO NOT EXCEED THE DESIGN DEPTH SHOWN IN THESE DRAWINGS (4.85m).
7. SECANT PILE WALL SHALL BE INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE ICE SPECIFICATIONS FOR PILING AND EMBEDDED RETAINING WALLS (ICESPERW, 2016).
8. THE SECANT PILE WALL IS DESIGNED FOR BOTH TEMPORARY AND PERMANENT USE.



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BROXWOOD VIEW LIMITED

JOB TITLE

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EDMUND'S TERRACE LONDON
NW8 7QH

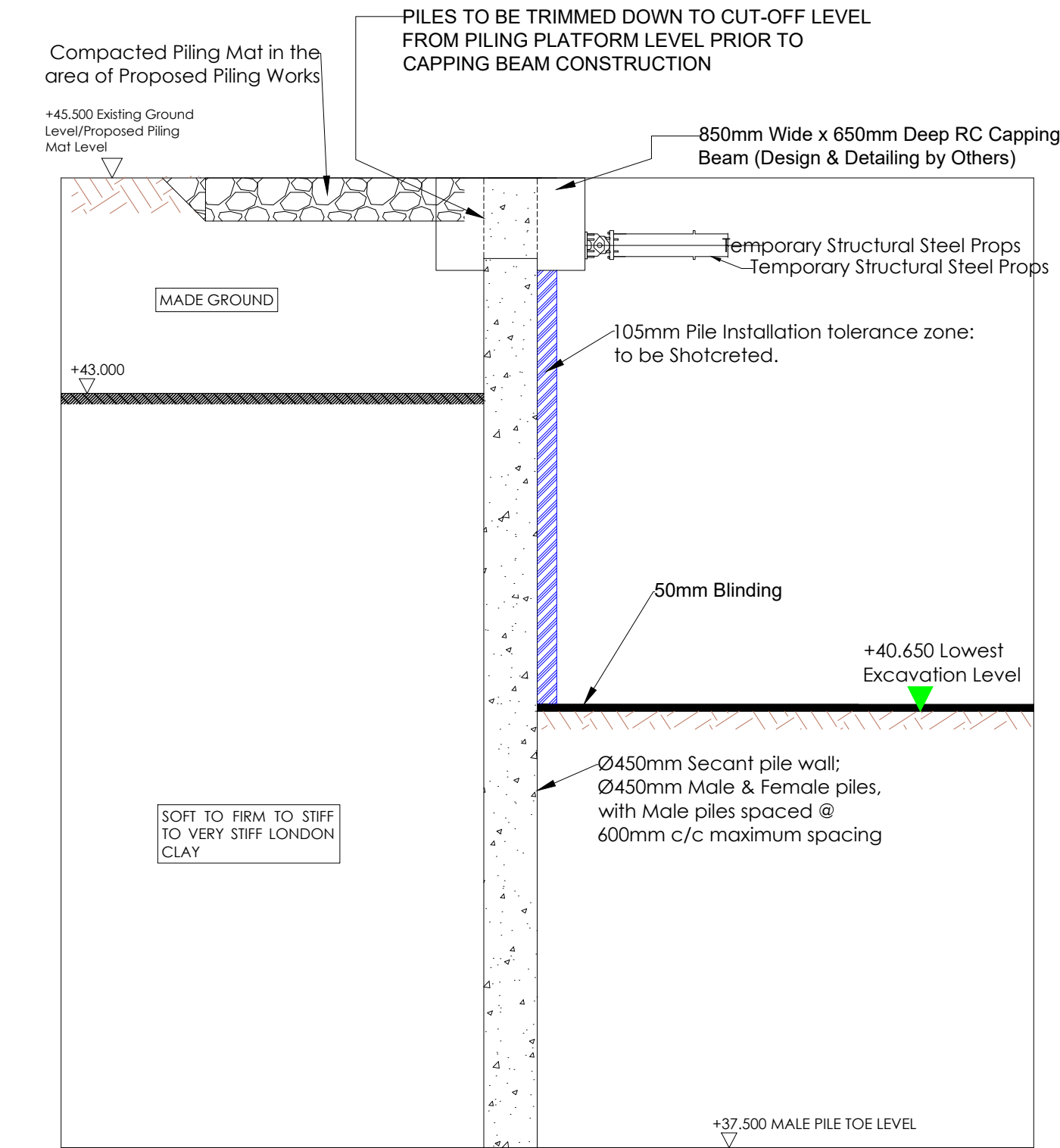
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PROPOSED CONSTRUCTION SEQUENCE SHEET -2

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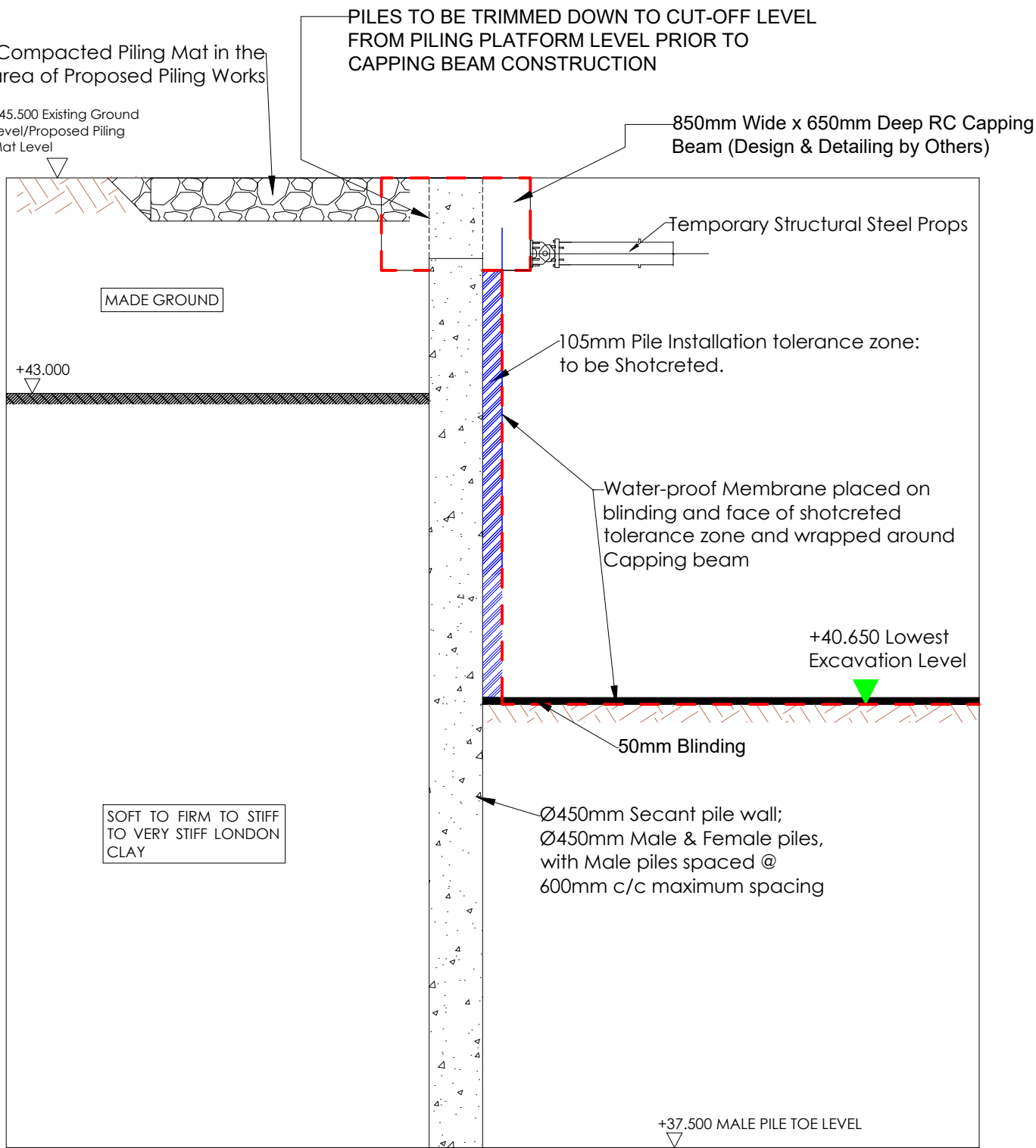
HEALTH, SAFETY AND ENVIRONMENT

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4. THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB-CONTRACTORS MUST REVIEW THE SITE-SPECIFIC AND HISTORICAL BOREHOLE LOGS OF THE SITE TO HAVE ADEQUATE KNOWLEDGE OF GROUND CONDITIONS ON THE SITE, PRIOR TO COMMENCEMENT OF WORKS.
5. DURING SITE OPERATIONS, IF OBSERVED GROUND CONDITIONS DIFFER FROM THE GENERALISED STRATIGRAPHY SHOWN IN THIS SET OF DRAWINGS, DFS MUST BE INFORMED IMMEDIATELY.
6. IT IS THE RESPONSIBILITY OF THE PRINCIPAL CONTRACTOR AND ASSOCIATED SUB-CONTRACTORS TO ENSURE THAT SITE OPERATIVES ARE COMPETENT AND EXPERIENCED IN THE AREA OF WORKS TO BE UNDERTAKEN.
7. IN ADDITION TO THE RISK/HAZARD TYPICALLY ASSOCIATED WITH THE GROUND ENGINEERING WORKS DETAILED IN THIS DRAWING, ADDITIONAL SITE/WORK-SPECIFIC HAZARDS HAVE BEEN IDENTIFIED THROUGH DESIGN RISK ASSESSMENT. THESE ARE OUTLINED IN 7.1 – 7.4 BELOW. ALL SITE OPERATIONS MUST ACCOUNT FOR ALL USUAL AND SITE/WORK-SPECIFIC HAZARDS.
- 7.1. PILING PLATFORM LEVEL IS UNCONFIRMED AT THIS STAGE. HOWEVER, FOR DESIGN PURPOSE, THE PILING MAT LEVEL FOR THE PERIMETER SECANT PILE WALL AND BEARING PILES IS GENERALLY TAKEN TO BE THE EXISTING GROUND LEVEL IN THE AREA OF PROPOSED WORKS; APPROX. +45.500M OD. NONETHELESS, THE PRINCIPAL CONTRACTOR MUST CONFIRM ACTUAL PILING PLATFORM LEVEL(S) PRIOR TO THE COMMENCEMENT OF PILING WORKS ON THE SITE, SO THAT THE PILE WALL SCHEDULE & BEARING PILE SCHEDULE MAY BE AMENDED ACCORDINGLY.
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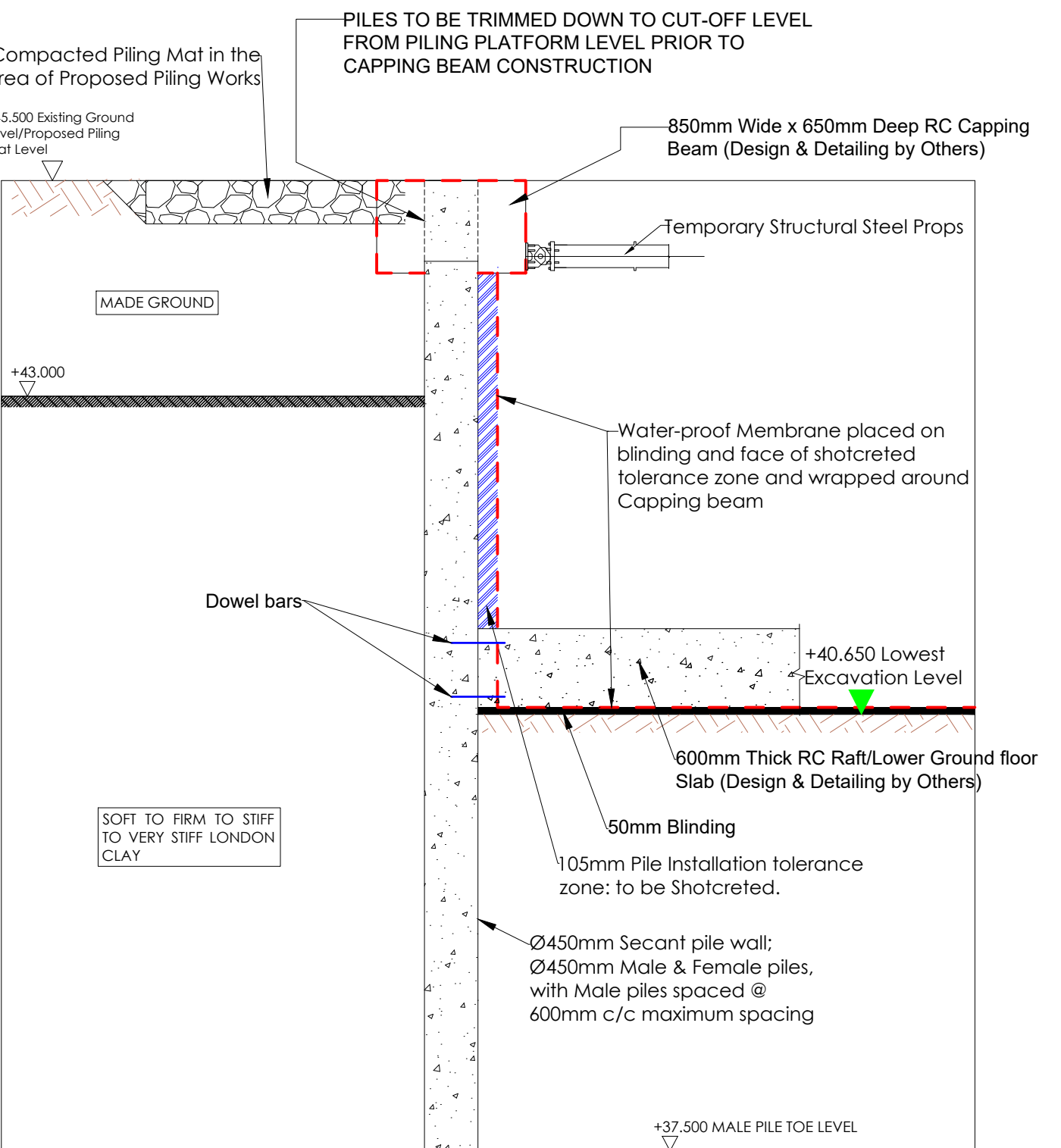
STAGE 8:

PLACE BLINDING OF 50mm MINIMUM THICKNESS AT FORMATION LEVEL AND SHOTCRETE 105mm PILE INSTALLATION TOLERANCE ZONE, IN PREPARATION FOR THE INSTALLATION OF WATER-PROOFING MEMBRANE.



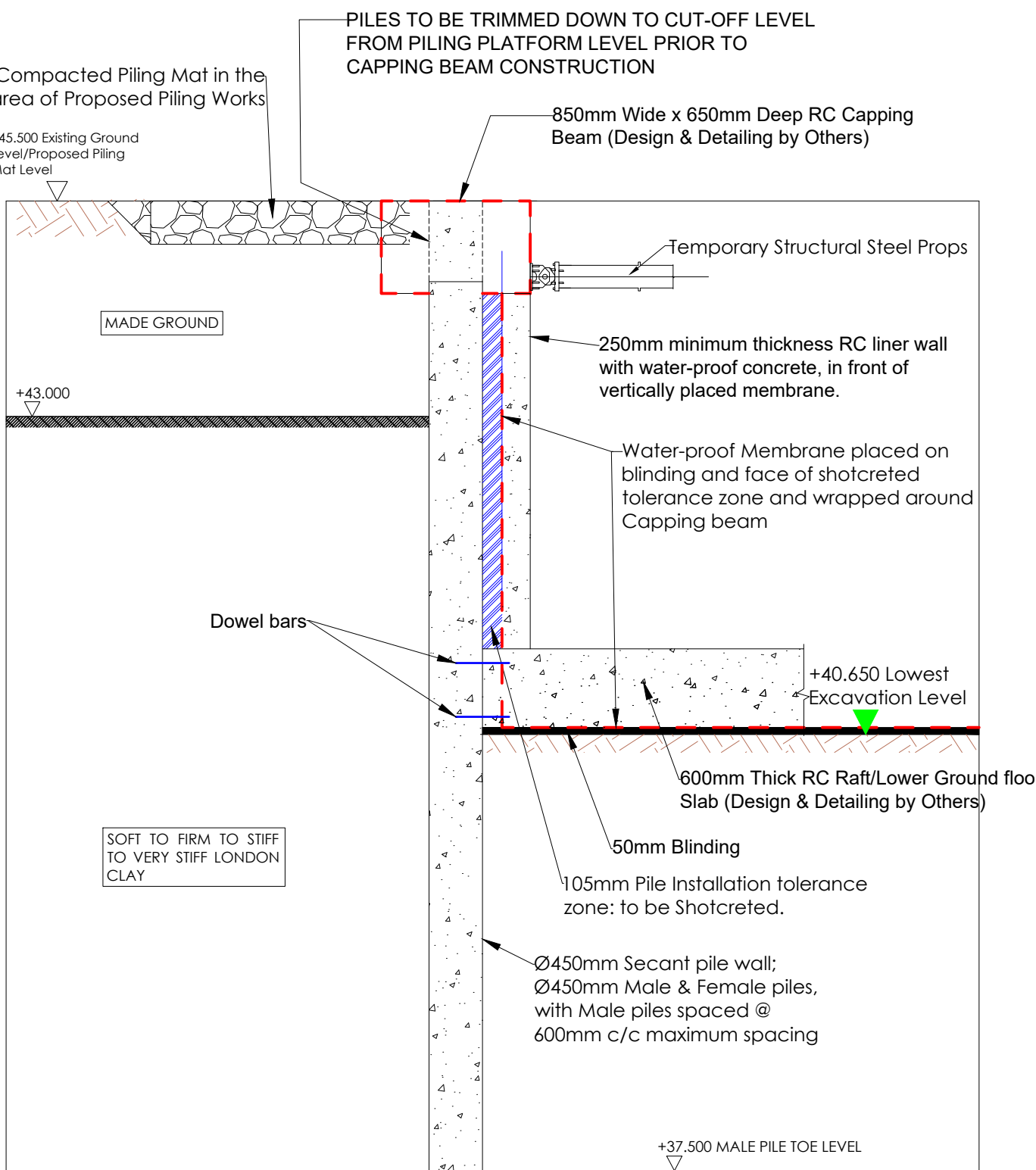
STAGE 9:

INSTALL/FIX WATER-PROOF MEMBRANE ON PLACED BLINDING, AS WELL AS FACE OF PILE RETAINING WALL/SEGMENTAL UNDERPINNING WALL AND WRAP AROUND CAPPING BEAM.



STAGE 10:

CONSTRUCT 600MM THICK REINFORCED CONCRETE RAFT/LOWER GROUND FLOOR SLAB WITH WATER-PROOF CONCRETE AND DOWEL INTO PILE RETAINING WALL/SEGMENTAL UNDERPINNING WALL, WHILST MAKING ALLOWANCE FOR CAVITY DRAIN IN FRONT OF RETAINING WALLS.

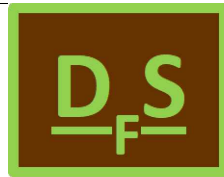


STAGE 11:

CONSTRUCT RC LINER WALL OF 250MM MINIMUM THICKNESS WITH WATER-PROOF CONCRETE, IN FRONT OF PILE RETAINING WALL AND SEGMENTAL UNDERPINNING WALL FROM BASEMENT LEVEL, UP TO CAPPING BEAM SOFFIT LEVEL AND CONNECT SAME TO CAPPING BEAM.

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BROXWOOD VIEW LIMITED

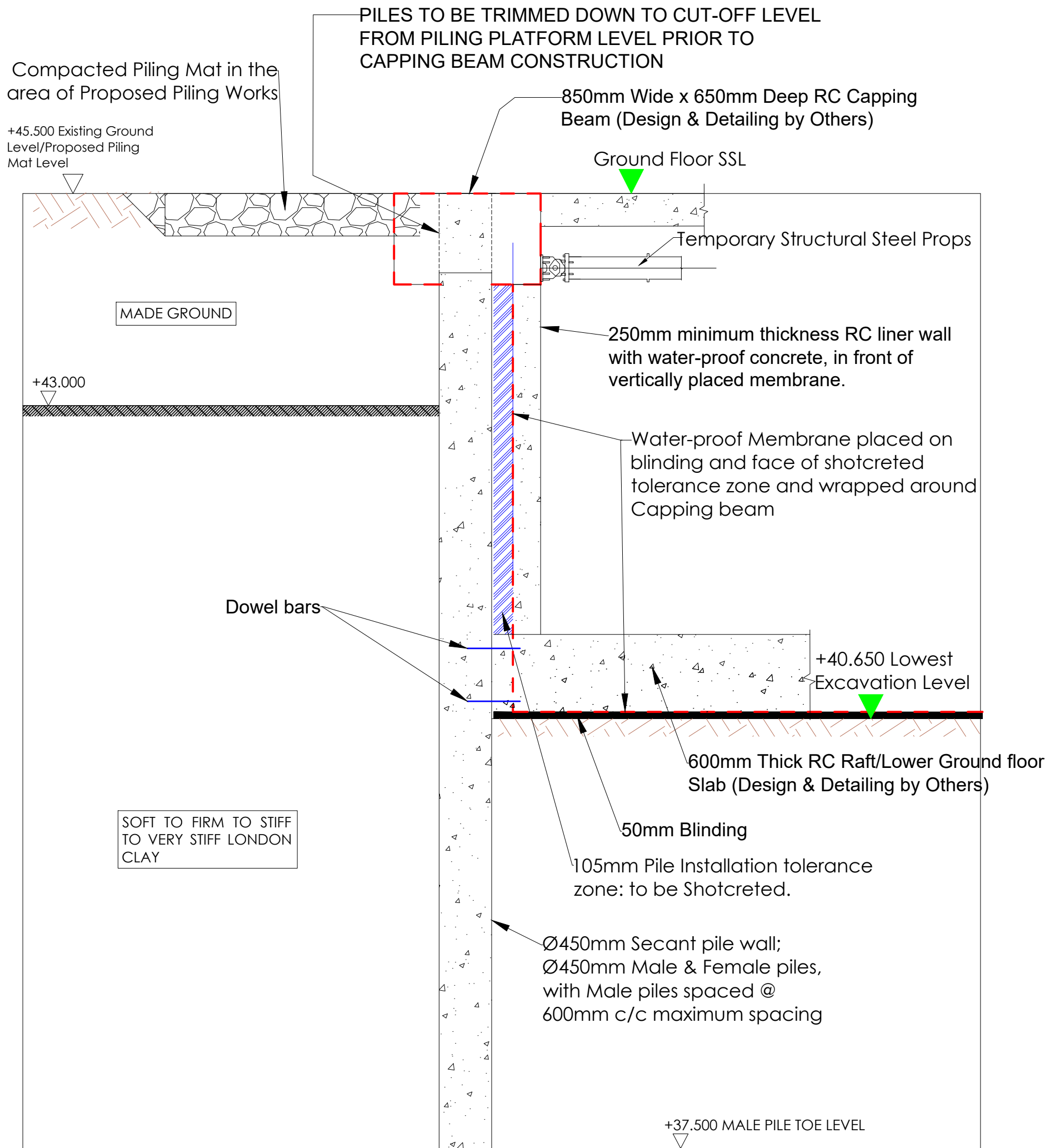
JOB TITLE
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EDMUND'S TERRACE LONDON
NW8 7QH

PROPOSED CONSTRUCTION SEQUENCE SHEET -3

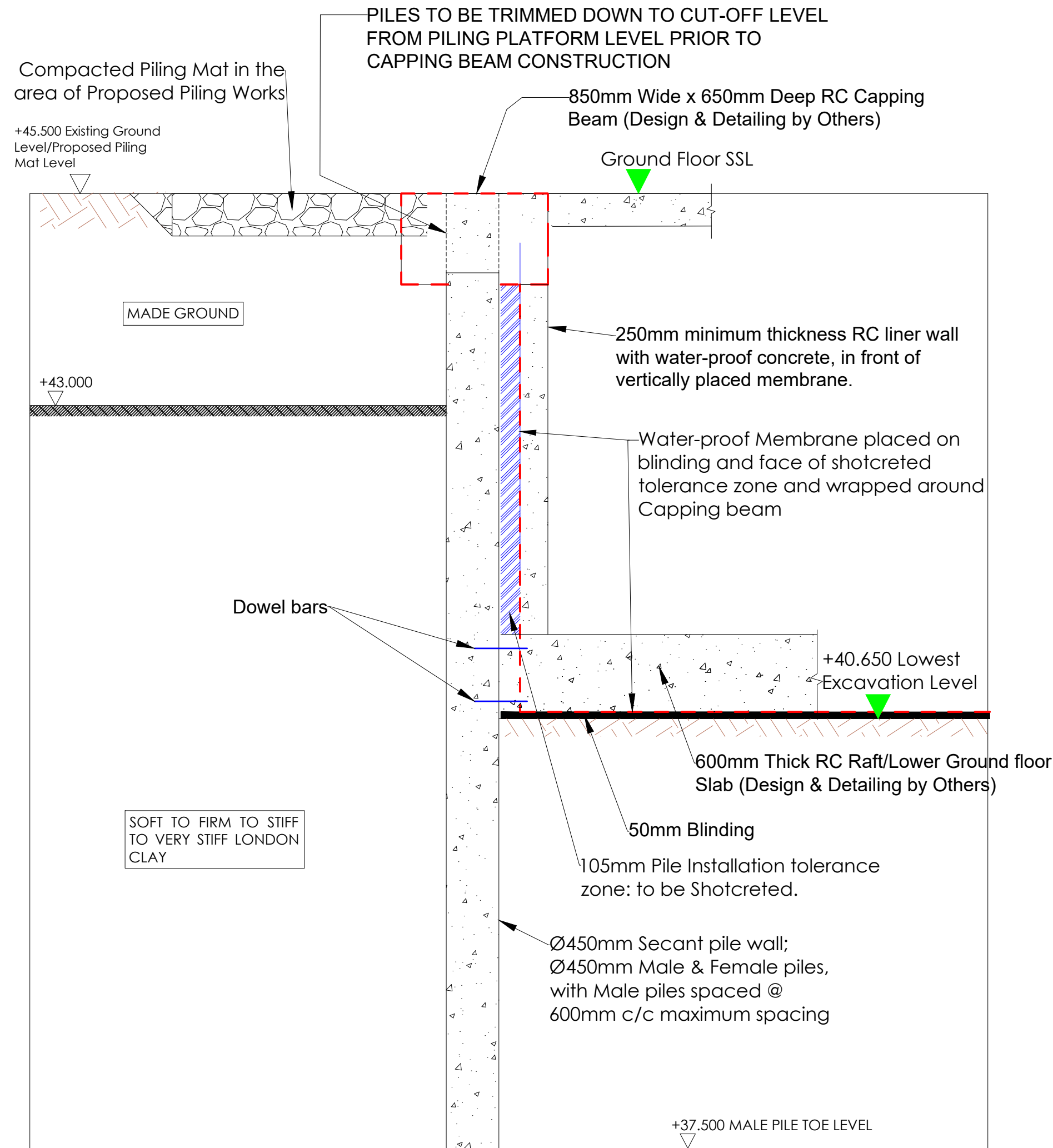
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STAGE 12:
CONSTRUCT GROUND FLOOR SLAB AND CONNECT SAME TO CAPPING BEAM



STAGE 13:
REMOVE TEMPORARY PROPS AND STRUCTURAL STEEL WALLING BEAM

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DRAWING TITLE
PROPOSED CONSTRUCTION SEQUENCE SHEET -4

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16 OCT 2022

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