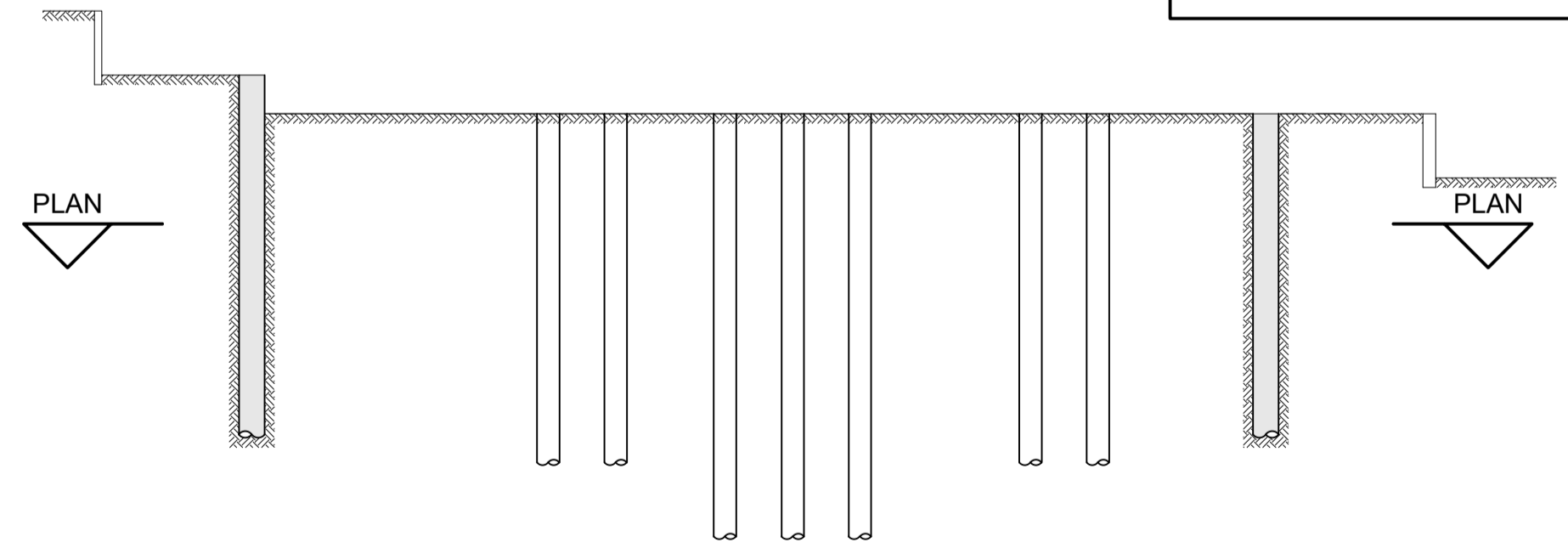
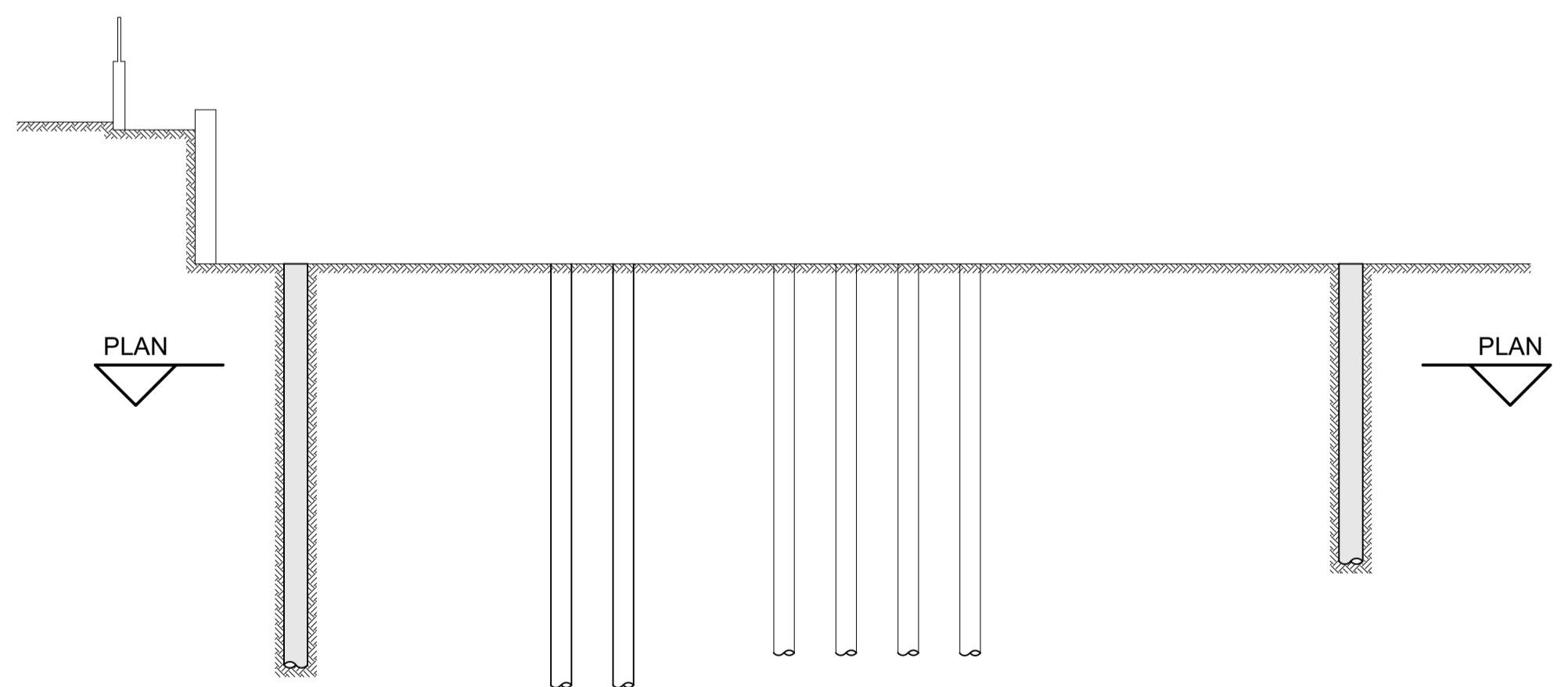


**PLAN - STAGE 1**  
(SCALE 1:100)

**STAGE 1**  
DRILL PILE SHAFT THEN POUR CONCRETE IN SITU TO REQUIRED PERMANENT LEVELS.  
  
WHERE EARTH NEEDS TO BE RETAINED TO NOT UNDERMINE EXISTING STRUCTURES OR TREES IN CLOSE PROXIMITY, POUR CONCRETE UP TO GROUND LEVEL.



**SECTION A**  
(SCALE 1:100)



**SECTION B**  
(SCALE 1:100)

**CONTIGUOUS PILED WALL NOTES**

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
2. ALL PERIMETER PILES SHOWN REPRESENT A CONTIGUOUS PILING SCHEME THE SETTING OUT OF THE PERIMETER PILES IS INDICATIVE ONLY AND THE FINAL SETTING OUT IS TO BE THE RESPONSIBILITY OF THE PILING CONTRACTOR, BUT THE OVERALL MINIMUM DIMENSIONS FOR THE BASEMENT MUST BE MAINTAINED.
- VERTICAL LOADING = 230KN/m<sup>2</sup> LINE LOAD GENERALLY (NOTE: LINE LOAD SPREAD INTO PILES THROUGH THE R.C CAPPING BEAM).
- HORIZONTAL LOADING (SURCHARGE) = TO BE CONFIRMED.
3. ALL BEARING PILES ARE SHOWN ARE TO BE AS NOTED ON PLAN.
4. PILING CONTRACTOR IS TO BE RESPONSIBLE FOR THE DESIGN OF THE PILING MAT.
5. POSITION OF ALL UNDERGROUND SERVICES IS TO BE RECORDED AND ANY DIVERSIONS UNDERTAKEN, PRIOR TO ANY WORKS COMMENCING.
6. ALL CONCRETE USED IS TO BE GRADE-RC40. (SEE **TAK STRUCTURES LTD** CONCRETE SPECIFICATION)
7. THE PERIMETER CONTIGUOUS PILED WALL IS TO BE DESIGNED AS SIMPLY SUPPORTED IN THE TEMPORARY CONDITION AND THE FINAL DESIGN OF ALL THE PILES IS TO BE THE RESPONSIBILITY OF THE PILING CONTRACTOR, BASED ON THE LOADS PROVIDED.
8. ALL LOADS GIVEN ARE WORKING LOADS AND THE FACTOR OF SAFETY FOR DESIGN IS TO BE 3.0
9. ALL PILING TO BE INSTALLED IN ACCORDANCE WITH THE INSTITUTION OF CIVIL ENGINEERS 'SPECIFICATION FOR PILING AND EMBEDDED RETAINING WALLS'. WITH THE FOLLOWING TOLERANCES:  
75mm OUT OF POSITION - VERTICAL ALIGNMENT = 1:50
10. SETTING OUT OF CONTIGUOUS PILED WALL OR BEARING PILES IS TO BE THE RESPONSIBILITY OF THE NOMINATED PILING CONTRACTOR.

**STEELWORK**

1. ALL STRUCTURAL STEEL WORK TO BE A MINIMUM OF GRADE S355 UNLESS OTHERWISE NOTED.
2. ALL STEELWORK TO BE PAINTED IS TO BE PREPARED BY GRIT OR SHOT BLASTING IN ACCORDANCE WITH BS 4232 THE STANDARD OF SURFACE CLEANLINESS IS TO BE SECOND QUALITY OR SWEDISH STANDARD S.A. 2.5 PAINT SPECIFICATION TO BE IN ACCORDANCE WITH BS 5493 IN SHOP APPLY HIGH BUILD ZINC PHOSPHATE MODIFIED ALKYD, 75mm. ON SITE DEGREASE AND TOUCH UP AS NECESSARY USING HIGH BUILD ZINC PHOSPHATE MODIFIED ALKYD TO 60mm. (THICKNESSES ARE DRY FILM THICKNESS).
3. ALL EXPOSED STEELWORK OR STEELWORK BUILT INTO EXTERNAL WALLS TO BE GALVANISED.
4. THE DESIGN OF CONNECTION AND SPLICES FOR STEELWORK TO BE DESIGNED BY THE FABRICATOR WITH LOADS NOTED ON THE RELEVANT **TAK STRUCTURES LTD** DRAWINGS.
5. CONTRACTOR TO WORK TO FIGURED DIMENSIONS ONLY OR TO TAKE SITE DIMENSIONS IF REQUIRED.
6. ALL WELDS TO BE 6MM FULL PROFILE CONTINUOUS FILLET WELDS UNLESS OTHERWISE NOTED.
7. GAP BETWEEN STEEL BEAMS AND UNDERSIDE OF MASONRY TO BE SOLIDLY PACKED WITH SEMI-DRY CEMENT/SAND MIX WITH SUITABLE TOOL. LEAVE FOR 24 HOURS PRIOR TO REMOVING TEMPORARY PROPS.
8. ALL BELOW GROUND STEELWORK TO BE ENCASED IN MIN. 75mm CONCRETE, REINFORCED WITH WRAPPED D49 MESH U.N.O.

**GENERAL NOTES**

1. DIMENSIONS ARE NOT TO BE SCALED FROM THIS DRAWING.
2. ALL DIMENSIONS ARE TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS, AND ANY DISCREPANCIES REPORTED IMMEDIATELY TO THE ENGINEER.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DESIGN TEAM DETAILS AND SPECIFICATIONS.
4. THE FIRE PROTECTION SPECIFICATION OF STRUCTURAL ELEMENTS TO BE TO ARCHITECTS DETAILS AND BUILDING CONTROL APPROVAL.
5. ALL STRUCTURAL WORKS TO BE COMPLETED TO THE APPROVAL OF BUILDING CONTROL.
6. ALL TEMPORARY WORKS AND STABILITY OF THE BUILDING AND NEIGHBOURING BUILDINGS TO BE THE RESPONSIBILITY OF THE CONTRACTOR FOR THE DURATION OF THE CONSTRUCTION PERIOD. METHOD STATEMENTS AND SEQUENCE OF WORKS MAY BE REQUIRED BEFORE WORK COMMENCES.
7. DEPTH OF ALL FOUNDATIONS TO BE APPROVED BY BUILDING CONTROL BEFORE ANY CONCRETING IS UNDERTAKEN

**CONCRETE**

1. MASS CONCRETE FOUNDATION TO BE A MINIMUM OF GEN1/ST2 MIX OR AS NOTED ON DRAWING.
  2. REINFORCED CONCRETE FOUNDATIONS OR SLABS TO BE A MINIMUM OF OR RC32/40 OR AS NOTED ON DRAWING.
  3. PADSTONES TO BE MASS CONCRETE STS PRESCRIBED MIX.
  4. MINIMUM COVER TO REINFORCEMENT IN BURIED CONCRETE TO BE 50mm UNLESS OTHERWISE NOTED ON DRAWINGS.
- PILING**
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS.
  2. ALL BEARING PILES ARE SHOWN ARE TO BE AS NOTED ON PLAN.
  3. PILING CONTRACTOR IS TO BE RESPONSIBLE FOR THE DESIGN OF THE PILING MAT.
  4. THE FINAL DESIGN OF ALL THE PILES IS TO BE THE RESPONSIBILITY OF THE PILING CONTRACTOR, BASED ON THE LOADS PROVIDED.
  5. POSITION OF ALL UNDERGROUND SERVICES IS TO BE RECORDED AND ANY DIVERSIONS UNDERTAKEN, PRIOR TO ANY WORKS COMMENCING.
  6. ALL CONCRETE USED IS TO BE:
    - GRADE RC-40 TO DS-2 & AC-2 WITH SLEEVES THROUGH MADE GROUND.
    - (SEE TAK CONCRETE SPECIFICATION & SITE INVESTIGATION REPORT)
  7. ALL LOADS GIVEN WITHIN PILING SCHEDULE ARE WORKING LOADS AND THE FACTOR OF SAFETY FOR DESIGN IS TO BE 3.0. IF FACTOR OF SAFETY IS TO BE REDUCED A SERIES OF TEST PILES WILL NEED TO BE IDENTIFIED BY CONTRACTOR.
  8. ALL PILING TO BE INSTALLED IN ACCORDANCE WITH THE INSTITUTION OF CIVIL ENGINEERS SPECIFICATION FOR PILING AND EMBEDDED RETAINING WALLS. WITH THE FOLLOWING TOLERANCES: 75mm OUT OF POSITION - VERTICAL ALIGNMENT = 1:75.
  9. SETTING OUT OF BEARING PILES IS TO BE THE RESPONSIBILITY OF THE NOMINATED PILING CONTRACTOR.

**CALTITE SYSTEM CONCRETE SPECIFICATION**

1. CONCRETE  
ALL CONCRETE WITHIN BASEMENT AREA MUST CONFORM TO CURRENT EUROPEAN STANDARD SPECIFICATIONS AND BE DESIGNED, WITHOUT ADDITIVES. FOR A COMPRESSIVE STRENGTH COMPLYING WITH THE REQUIREMENTS OF RC40 (DS-1). THE CONCRETE MUST CONTAIN A MINIMUM OF 335KG/M3 CEM1 (PORTLAND CEMENT) (THE CEMENT CONTENT BEING STATED ON THE DELIVERY DOCKETS) AND HAVE A W/C RATIO NOT IN EXCESS OF 0.45. MIXES INCORPORATING BLENDED CEMENTS MAY BE USED SUBJECT TO AGREEMENT OF CEMENTAID.
2. ADMIXTURES  
ALL CONCRETE SHALL CONTAIN CEMENTAID EVERDURE CALTITE IMPERMEABILITY INDIAGENT AT THE RATE OF 30 LITRES PER M3. IN ADDITION, CEMENTAID SUPERPLASTET SHALL BE INCLUDED AT 1% BY WEIGHT OF CEMENT (E.G. IF CEMENT CONTENT IS 350KG/M3, 3.5 LITRES OF SUPERPLASTET IS USED). FOR SPECIAL CONDITIONS, THIS RATE MAY BE VARIED BETWEEN 0.5% AND 1.5% AS AGREED BY CEMENTAID. AN ALTERNATIVE SUPERPLASTICISER CONFORMING TO BS EN 934-2 MAY BE USED INSTEAD OF CEMENTAID SUPERPLASTET SUBJECT TO THE WRITTEN AGREEMENT OF CEMENTAID. THE WATER REQUIREMENT IS TO BE REDUCED ACCORDINGLY TO ALLOW FOR THE EFFECT OF THE INGREDIENTS ON THE CONCRETE SLUMP.
3. CONCRETE SUPPLIERS  
NOT ALL CONCRETE SUPPLIERS ARE APPROVED FOR SUPPLYING EVERDURE CALTITE SYSTEM QUALITY CONCRETE. THE CONTRACTOR SHOULD CHECK WITH CEMENTAID FOR APPROVED SUPPLIERS BEFORE ORDERING CONCRETE. CEMENTAID APPROVAL DOES NOT REMOVE RESPONSIBILITY FOR BASIC CONCRETE QUALITY, IN RESPECT OF ITS COMPRESSIVE STRENGTH OR MINIMUM CEMENT CONTENT, FROM THE CONCRETE PRODUCER OR THE CONTRACTOR.
4. PLACING  
CONCRETE SHALL NOT BE PLACED AT CONCRETE TEMPERATURES BELOW 5°C, NOR ABOVE 30°C, AND MUST BE PLACED ACCORDING TO CURRENT CODES OF PRACTICE AND CEMENTAID RECOMMENDATIONS. CONCRETE RECEIVED FROM THE BATCH PLANT WHICH CANNOT BE PLACED FREE FROM HONEYCOMBS SHALL BE REJECTED BY THE CONTRACTOR. CARE SHALL BE TAKEN TO FILL EVERY PART OF THE FORMS, TO FORCE CONCRETE UNDER AND AROUND REINFORCEMENT WITHOUT DISPLACING IT, TO WORK BACK COARSE AGGREGATE FROM THE FACE AND TO REMOVE ALL AIR BUBBLES AND VOIDS. COMPACTION SHALL BE ASSISTED BY A SUFFICIENT NUMBER OF APPROPRIATE IMMERSION TYPE VIBRATORS. THESE SHALL NOT BE HELD AGAINST FORMS OR REINFORCING STEEL NOR USED FOR SPREADING INTO PLACES. VIBRATORS SHALL NOT BE HELD IN ONE PLACE SO LONG AS TO RESULT IN SEGREGATION OF CONCRETE MATERIALS OR FORMATION OF LAITANCE ON THE SURFACE.  
  
UNLESS OTHERWISE AGREED IN WRITING, POUR SIZES MUST BE WITHIN THE LIMITS OF CURRENT CODES OF PRACTICE. IF IN DOUBT, PLEASE CONTACT CEMENTAID TO DISCUSS.
5. FINISHING  
ALL CONCRETE TO BE PROPERLY FINISHED ACCORDING TO THE ARCHITECT'S OR CONSULTING STRUCTURAL ENGINEER'S SPECIFICATION
6. CURING AND COOLING  
PROPER CURING SHALL BE CARRIED OUT IN ACCORDANCE WITH BS 8110 OR EQUIVALENT. FOR SLABS, CURING SHOULD START IMMEDIATELY AFTER FINISHING AND AS SOON AS THE CONCRETE CAN WITHSTAND A MAN'S WEIGHT WITHOUT MARKING. FOR LARGER SLABS, CURING SHOULD BE DONE IN SECTIONS AS THE CONCRETE IS FINISHED. THIS IS ESPECIALLY THE CASE WITH POWER-FLOAT FINISHES WHERE COMMENCEMENT OF CURING MUST NOT BE DELAYED. FOR WALLS, THE TOP SURFACE MUST BE APPROPRIATELY COVERED AS SOON AS FINISHING IS COMPLETE. CURING OF THE WALLS THEMSELVES MUST COMMENCE IMMEDIATELY THE FORMWORK IS REMOVED. ALL CONCRETE SURFACES TO BE PROTECTED FROM DIRECT SUNLIGHT AND FROST BY APPROPRIATE COVERING DURING THE CURING PERIOD. THE CURING TIME SHOULD BE FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT OR LONGER AS SPECIFIED. SPRAY-ON CURING MEMBRANES ARE NOT RECOMMENDED.
7. LOADING  
LOADING OF THE STRUCTURE IS NOT PERMITTED UNTIL THE CONCRETE HAS REACHED THE STRENGTH SPECIFIED.
8. SITE ATTENDANCE  
A REPRESENTATIVE OF CEMENTAID IS TO BE IN ATTENDANCE AT THE BATCH PLANT AND ON SITE DURING ALL EVERDURE CALTITE POURS. CEMENTAID IS TO BE NOTIFIED BY THE CONTRACTOR AT LEAST THREE WORKING DAYS BEFORE THE FIRST INTENDED PLACEMENT OF CALTITE SYSTEM CONCRETE AND, THEREAFTER, AT LEAST 24 HOURS BEFORE EACH PLACEMENT. SITE ATTENDANCE DOES NOT CONSTITUTE SUPERVISION.

**WATERPROOFING NOTE**

- WATERPROOF CONCRETE ADDITIVE TO BE PLACED IN ALL CONCRETE FOR:
1. BASEMENT SLAB.
  2. LIFT PIT AND WALLS.
  3. ALL LINING WALLS.
  4. 100mm STRIP AROUND PODIUM PERIMETER.

- DIMENSIONS ARE NOT TO BE SCALED FROM THIS DRAWING
- ALL DIMENSIONS ARE TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS
- ANY DISCREPANCIES REPORTED IMMEDIATELY TO THE ENGINEER
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL DESIGN TEAM DETAILS & SPECIFICATIONS
- FIRE PROTECTION SPECIFICATION TO STRUCTURAL ELEMENTS TO ARCHITECT DETAIL & BUILDING CONTROL APPROVAL
- ALL STRUCTURAL WORKS TO BE COMPLETED TO THE APPROVAL OF BUILDING CONTROL
- ALL TEMPORARY WORKS AND STABILITY OF THE BUILDING AND NEIGHBORING BUILDINGS TO BE THE RESPONSIBILITY OF THE CONTRACTOR FOR THE DURATION OF THE CONSTRUCTION PERIOD
- METHOD STATEMENTS AND SEQUENCE OF WORKS MAY BE REQUIRED BEFORE WORK COMMENCES

REV	BY	CHKD	DATE	NOTES

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P3	RH	MS	20/05/2021	REVISED WHERE CLOUDED
P2	RH	MS	12/05/2021	SEQUENCE REVISED.
P1	RH	MS	04/02/2021	PRELIMINARY ISSUE

BY	RH	DRAWING TITLE	BASEMENT CONSTRUCTION STAGE 1
CHKD	MS	DRAWING No.	20080_TAK_GA-01
SCALE @ A1	AS SHOWN	DRAWING STATUS	PRELIMINARY
DATE	04/02/2021	REV.	P3

CLIENT	MRPP
PROJECT	38 FROGNAL LANE HAMPSTEAD

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