# **Appendix 5: Structural Engineer's Statement and Calculations**

TAK Structures Construction Methodology Report, 20080 TAK Report 2021.02.05 Rev B, gives details of the construction sequence including drawings of the 11 stages of the basement construction.

As a rebuild, the house will be constructed in a sensible and orthodox manner from the bottom upwards. The leisure suite will have columns at around 5m centres, both ways, to support the ground floor slab and superstructure. These basement columns will be supported on piles within the basement box.

The basement will require the construction of a contiguous piled perimeter wall with an inner box of waterproof concrete.

The ground movement analysis assumes the basement walls are held stiff. This will be achieved during construction by wailer and bracing. In the permanent solution the walls will have capping beams and the lid to the basement.

As orthodox construction, there are no unusual features that require preliminary design calculations.

# CONSTRUCTION METHODOLOGY

# FOR

38 FROGNAL LANE, LONDON.

REV. B



020 4530 8000 | info@takstructures.co.uk | www.takstructures.co.uk

TAK Structures Ltd Suite 1 10 Kennington Park Place London SE11 4AS Company No: 12732402

# **Revision Notes**

• Estimated pile loads updated.

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## **Outline of Temporary & Permanent Works**

- Demolition of the existing house.
- Installation of contiguous piles to perimeter of basement and piles to basement columns.
- Construction of capping beam or installation of high-level wailer system with propping to hold the excavation stiff.
- Propping of the retaining wall to back of the pavement.
- Excavation of basement. This will require the interception of any seepages with a sump and pump, but formal dewatering techniques will not be required. The basement throughflow in 5.5.8 at 0.12l/s cis well within the capacity of a single sump pump.
- Casting of basement raft and perimeter walls in waterproof concrete
- Removal of wailer and completion of lid to basement box.
- Drainage strategy/SUDS proposals as SDA Drawing 1611 100

## Superstructure

- The building will be an RC frame with 200mm thick slabs @ Basement & Levels 1 & 2, and a 400mm thick podium deck at ground floor level.
- The building will be clad with non-load bearing masonry.

# Foundation

• The columns will be supported upon piled foundations, designed by specialist contractors using loads provided by *TAK Structures*.

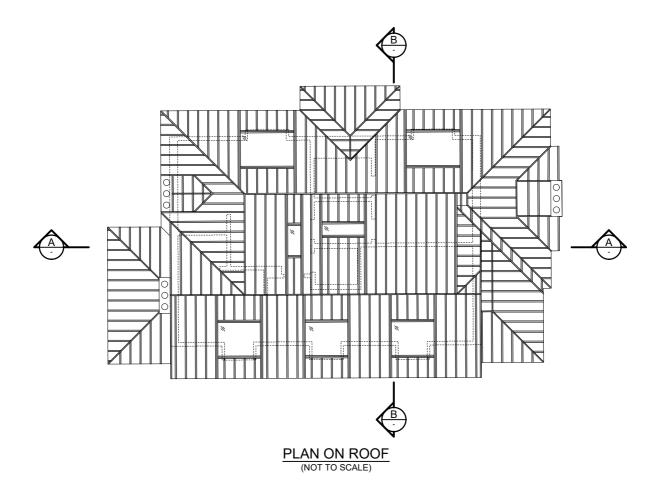
# Stability

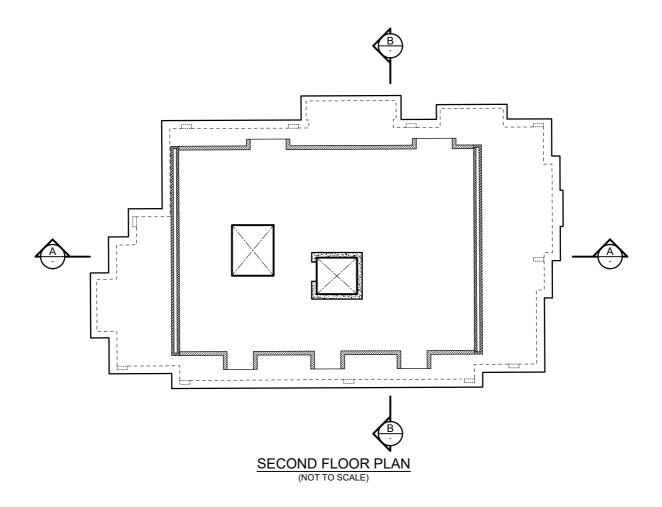
• Stability for the frame will be provided by RC lift shaft at the centre of the property.

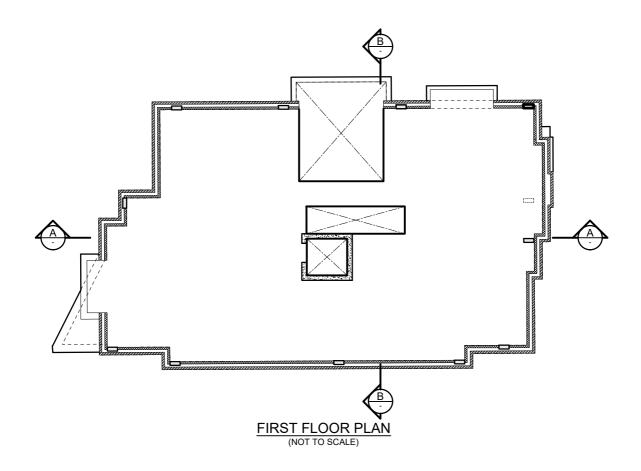


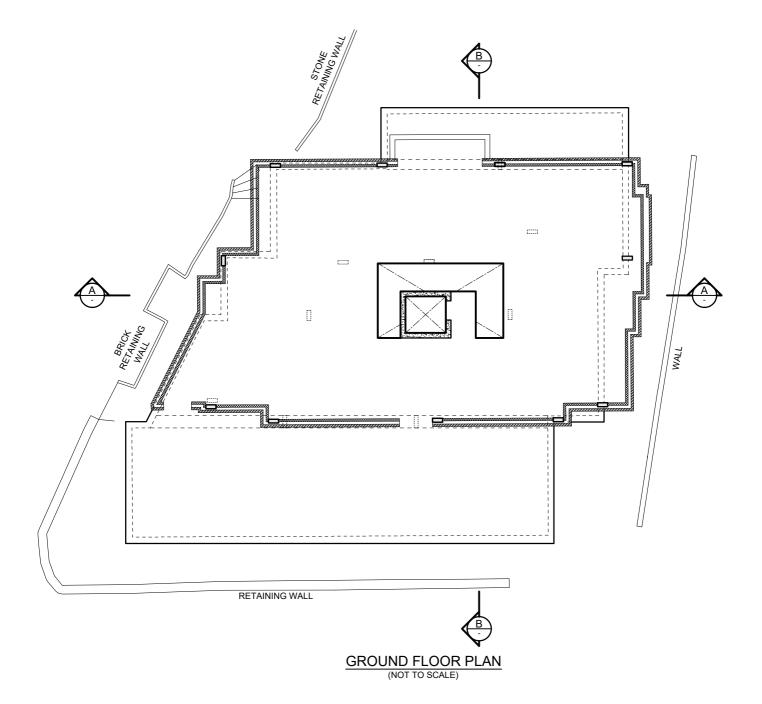
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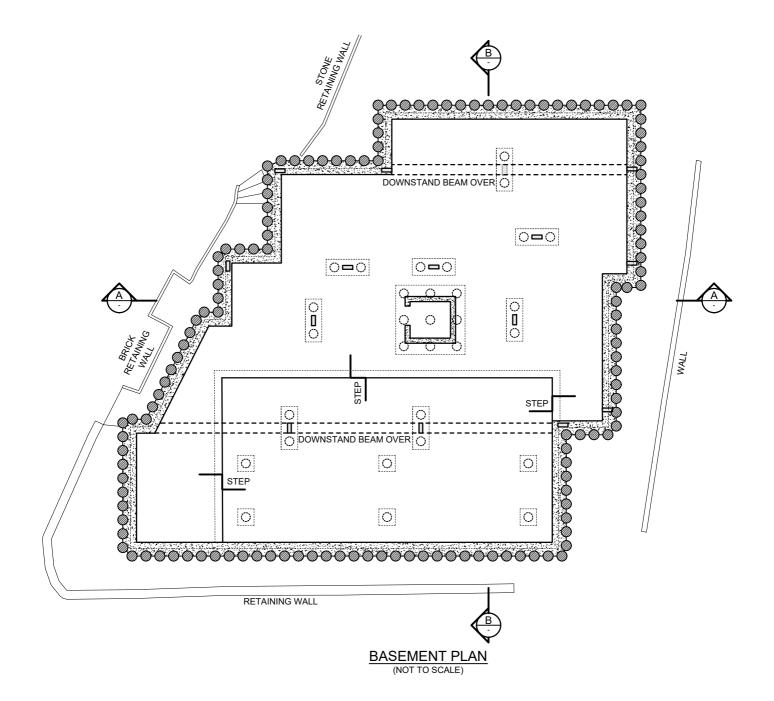
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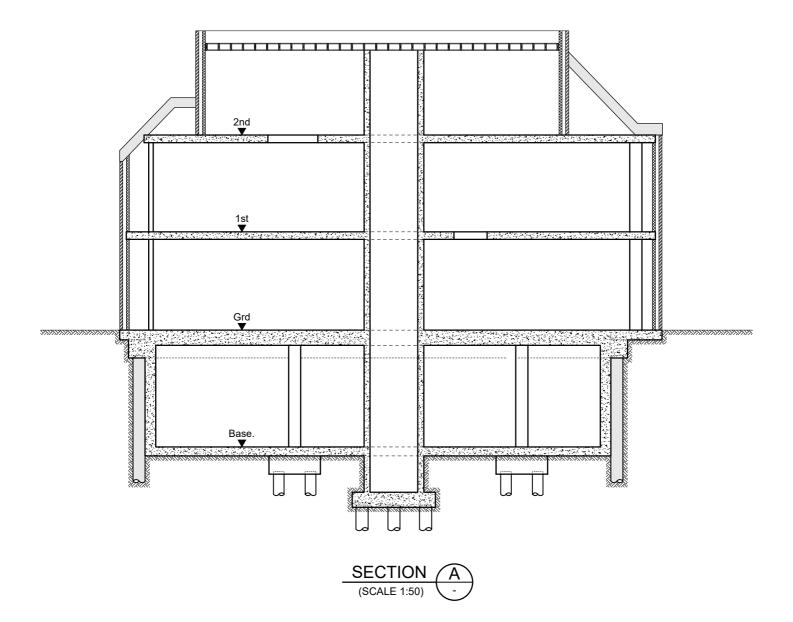


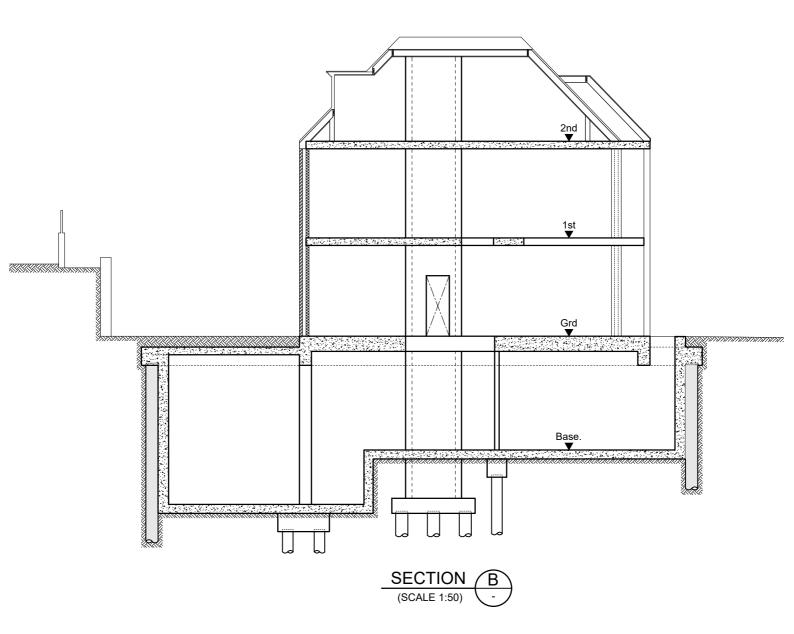


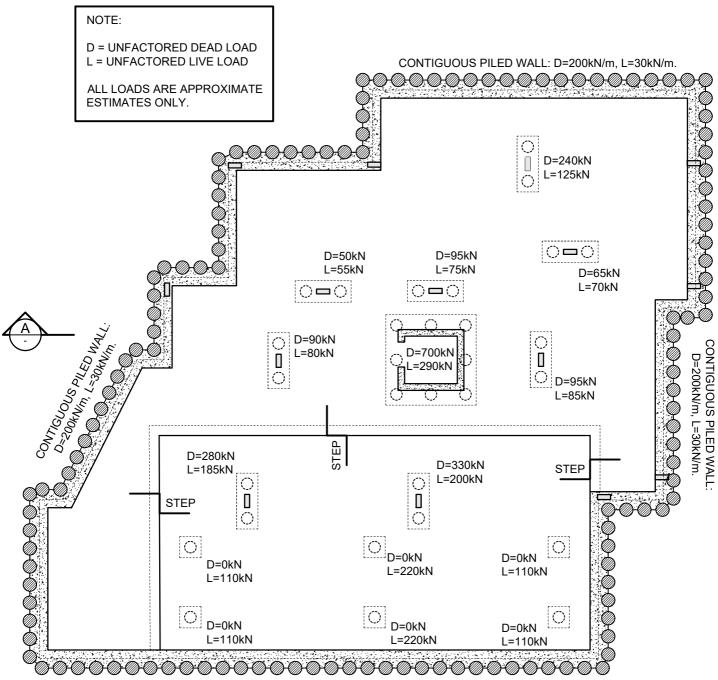






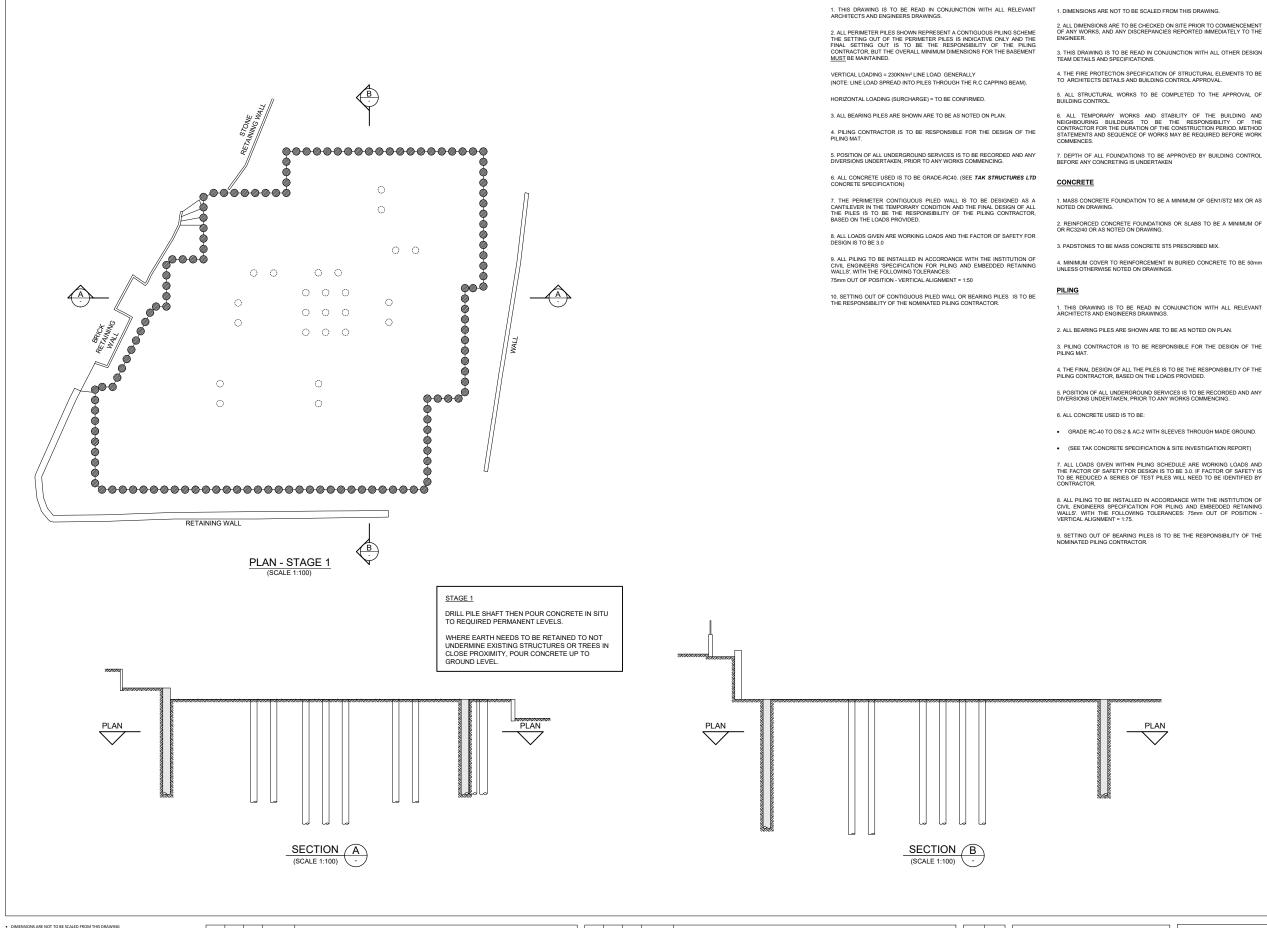






CONTIGUOUS PILED WALL: D=200kN/m, L=30kN/m.

PILE LOADS (NOT TO SCALE)



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### CALTITE SYSTEM CONCRETE SPECIFICATION

GENERAL NOTES

CONTIGUOUS PILED WALL NOTES

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4. MINIMUM COVER TO REINFORCEMENT IN BURIED CONCRETE TO BE 50mm UNLESS OTHERWISE NOTED ON DRAWINGS.

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- 1. BASEMENT SLAB.
- 2. LIFT PIT AND WALLS.
- 3. ALL LINING WALLS.
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SUITE 1, 10 KENNINGTON PARK PLACE LONDON SE11 4AS www.takstructures.co.uk T: 020 4530 8000

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 <u>MUST</u> 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) CONCRETE

7. THE PERIMETER CONTIGUOUS PILED WALL IS TO BE DESIGNED AS A CANTILEVER IN THE TEMPORARY CONDITION AND THE FINAL DESIGN OF ALL THE PILES 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.

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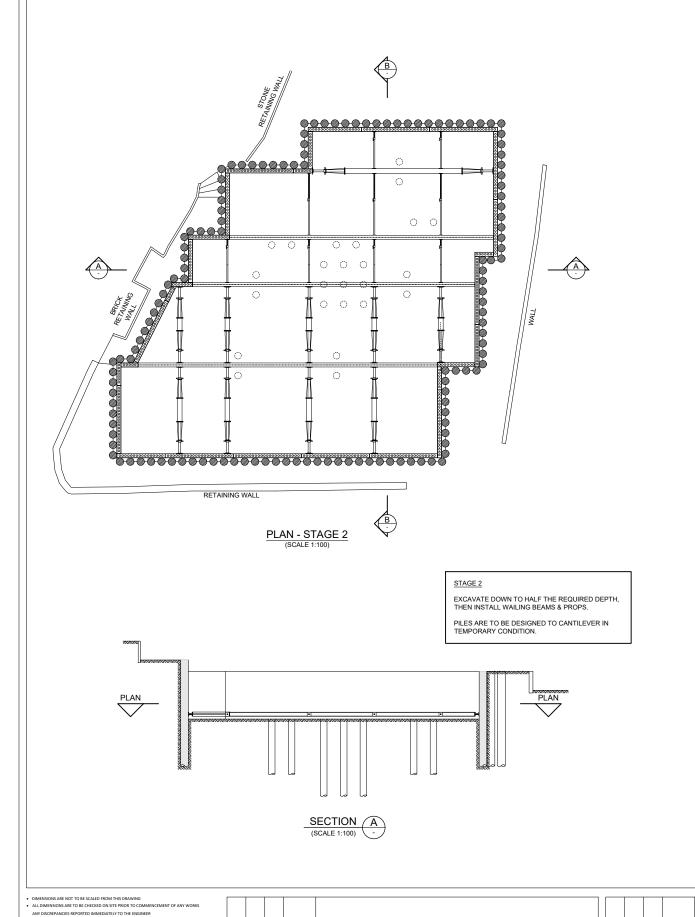
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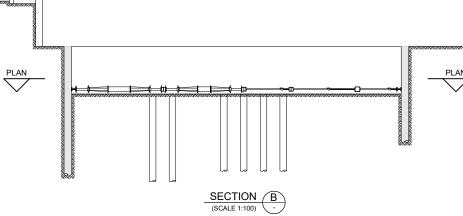
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GENERAL NOTES

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7. DEPTH OF ALL FOUNDATIONS TO BE APPROVED BY BUILDING CONTROL BEFORE ANY CONCRETING IS UNDERTAKEN

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 ST5 PRESCRIBED MIX

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(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.

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ENGINEER

CONCRETE

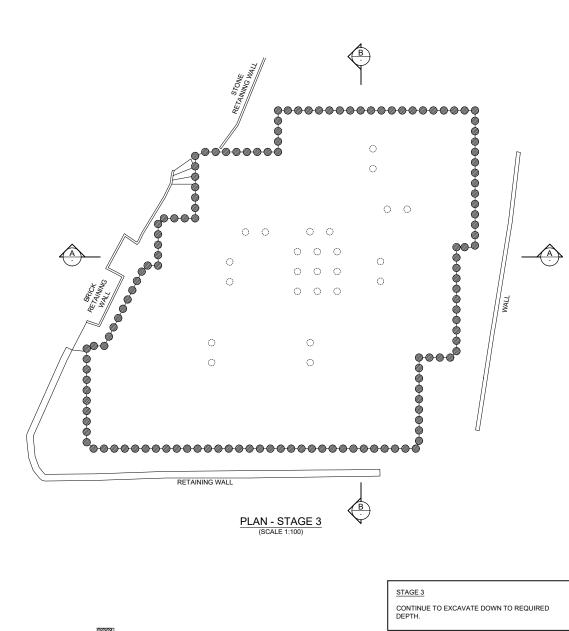
PILING

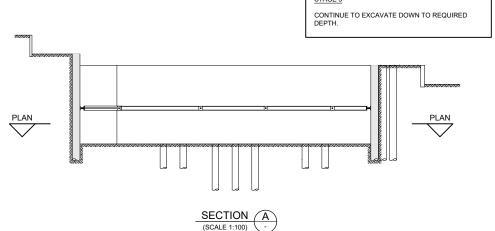
3. PILING CONTRACTOR IS TO BE RESPONSIBLE FOR THE DESIGN OF THE PILING MAT.

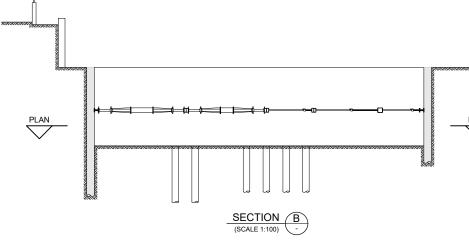
6. ALL CONCRETE USED IS TO BE

8. ALL PILING TO BE INSTALLED IN ACCORDANCE WITH THE INSTITUTION OF c. ALE FILING 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.







PERIOD METHOD STATEMENTS AND SEQUENCE OF WORKS MAY BE REQUIRED BEFORE WORK COMMENCES		DATE	NOTES				DATE	= 04/02/2	2/2021	PRELIMINARY	P1	HAMPSTEAD	T: 020 4530 8000
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ALL STRUCTURAL WORKS TO BE COMPLETED TO THE APPROVAL OF BUILDING CONTROL     ALL TEMPORARY WORKS AND STABILITY OF THE BUILDING AND NEIGHBORING BUILDINGS												PROJECT	SIRUCIURES
& BUILDING CONTROL APPROVAL								AS SH	SHOWN	20080_TAK_GA-03			STRUCTURES
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ANY DISCREPANCIES REPORTED IMMEDIATELY TO THE ENGINEER										BASEMENT CONSTRUCTION S			
DIMENSIONS ARE NOT TO BE SCALED FROM THIS DRAWING     ALL DIMENSIONS ARE TO BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS								BY	RH	DRAWING TITLE		CLIENT	

#### CALTITE SYSTEM CONCRETE SPECIFICATION

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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.

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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 ST5 PRESCRIBED MIX.

4. MINIMUM COVER TO REINFORCEMENT IN BURIED CONCRETE TO BE 50mm UNLESS OTHERWISE NOTED ON DRAWINGS.

2. ALL BEARING PILES ARE SHOWN ARE TO BE AS NOTED ON PLAN.

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.

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.

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4. PLACING CONCRETE SHALL NOT BE PLACED AT CONCRETE TEMPERATURES BELOW 5°C, NOR ABOVE 3°C, AND MUST BE PLACED ACCORDING TO CURRENT CODES OF PRACTICE AND CHEMITAID RECOMMENDATIONS. CONCRETE RECEIVED FROM THE BATCH PLANT WHICH CANNOT BE PLACED FREE FROM HONEYCOMBS SHALL BE REJECTED BY THE CONTRACTOR. CARES FAILL BE TAKEN TO FILL EVERY PART OF THE FORMS, TO FORCE OCNCRETE UNDER AND AROUND REINFORCEMENT WITHOUT DISPLACING IT, TO WORK BACK COARSE AGREGATE FROM THE FACE AND TO REINFORCE ALL AIR BUBBLES AND VOIDS. COMPACTION SHALL BE ASSISTED BY A SUFFICIENT NUMBER OF APROPRIATE IMMERSION THE YACE MAD TO REINFORM ALL NOT BE HELD AGAINST FORMS OR REINFORCING STEEL, NOR USED FOR SPREADING INTO PLACE. VIBRATORS SHALL NOT BE HELD IN OME PLACE SO LUNG AS TO RESULT IN SEGREGATOR NON LON'S PLACE SO LONG AS TO RESULT IN SEGREGATON OF CONCRETE MATERIALS OR FORMATION OF LATANCE ON THE SURFACE. 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

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PROPER CURING SHALL BE CARRIED OUT IN ACCORDANCE WITH BS 8110 OR EQUIVALENT. FOR SLABS, CURING SHOULD START IMMEDIATELY AFTER EQUIVALENT. FOR SLABS, CURING SHOULD START IMMEDIATELY AFTER FINISHING AND AS SOON 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 SEPSCIALLY 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 MUST COMPLEXE MUST COMMENCE IMMEDIATELY THE FORMWORK IS REMOVED DARGED BY APPROPRIATE COVERING. DURING THE CURING PERIOD, THE CURING THE SHOULD BE FOR A MINIMUM OF FIVE DAYS AFTER FLACEMENT OR LONGER AS SPECIFIED. SPRAY-ON CURING MEMBRANES ARE NOT RECOMMENDED. RECOMMENDED

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LOADING OF THE STRUCTURE IS NOT PERMITTED UNTIL THE CONCRETE HAS REACHED THE STRENGTH SPECIFIED.

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8. SITE AT LENDANCE A REPRESENTATIVE OF CEMENTAID IS TO BE IN ATTENDANCE AT THE BATCH PLANT AND ON SITE DURING ALL EVERDURE CALITIE FOURS. CEMENTAID IS TO BE NOTIFIED BY THE CONTRACTOR AT LEAST THREE WORKING DAYS BEFORE THE FIRST INTENDED PLACEMENT OF CALITIE SYSTEM CONCRETE AND, THEREAFTER, AT LEAST 24 HOURS BEFORE EACH PLACEMENT. SITE ATTENDANCE DOES NOT CONSTITUTE SUPERVISION.

#### WATERPROOFING NOTE

- 1. BASEMENT SLAB.
- 2. LIFT PIT AND WALLS.
- 3. ALL LINING WALLS.
- 4. 1000mm STRIP AROUND PODIUM PERIMETER.



1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAW

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 <u>MUST</u> 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 A CANTILEVER IN THE TEMPORARY CONDITION AND THE FINAL DESIGN OF ALL THE PILES 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.

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GENERAL NOTES

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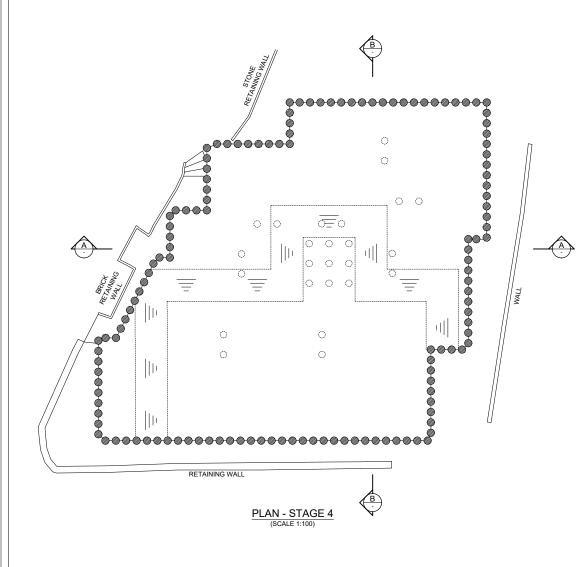
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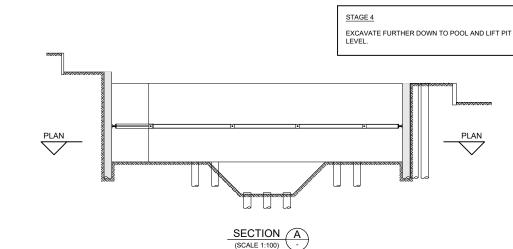
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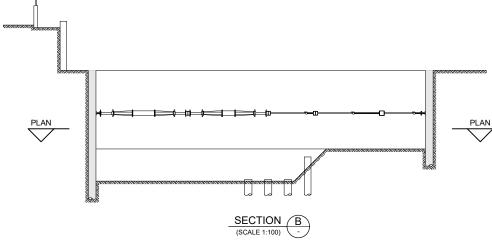
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75mm OUT OF POSITION - VERTICAL ALIGNMENT = 1:50

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GENERAL NOTES

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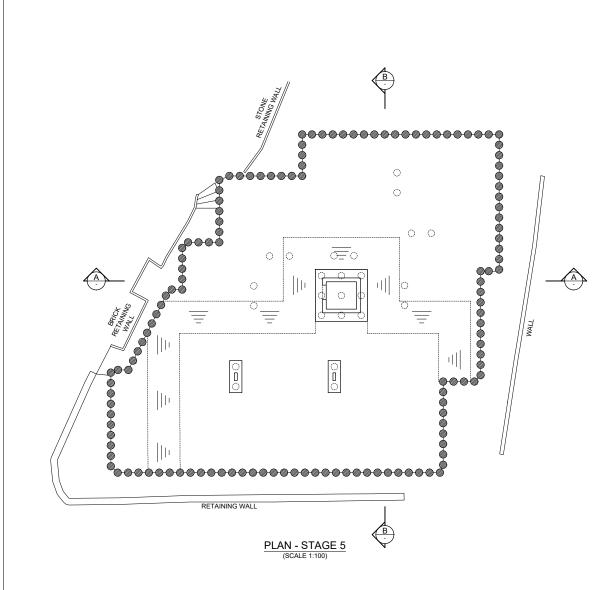
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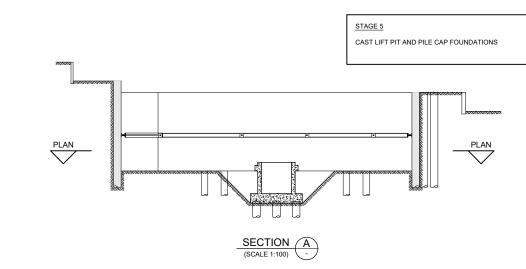
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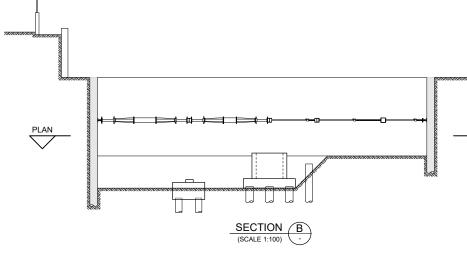
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<ul> <li>ALL STRUCTURAL WORKS TO BE COMPLETED TO THE APPROVAL OF BUILDING CONTROL</li> </ul>													PROJECT	STRUCTURES
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#### CALTITE SYSTEM CONCRETE SPECIFICATION

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

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7. DEPTH OF ALL FOUNDATIONS TO BE APPROVED BY BUILDING CONTROL BEFORE ANY CONCRETING IS UNDERTAKEN

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 ST5 PRESCRIBED MIX.

4. MINIMUM COVER TO REINFORCEMENT IN BURIED CONCRETE TO BE 50mm I INI ESS OTHERWISE NOTED ON 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.

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.

1. CURCKE1E 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 335KGMS CEMI (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 BUENDED CEMENTS MAY BE USED SUBJECT TO AGREEMENT OF CEMENTAID.

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4. PLACING CONCRETE SHALL NOT BE PLACED AT CONCRETE TEMPERATURES BELOW 5°C, NOR ABOVE 3°C, AND MUST BE PLACED ACCORDING TO CURRENT CODES OF PRACTICE AND CHEMITAID RECOMMENDATIONS. CONCRETE RECEIVED FROM THE BATCH PLANT WHICH CANNOT BE PLACED FREE FROM HONEYCOMBS SHALL BE REJECTED BY THE CONTRACTOR. CARES FAILL BE TAKEN TO FILL EVERY PART OF THE FORMS, TO FORCE OCNCRETE UNDER AND AROUND REINFORCEMENT WITHOUT DISPLACING IT, TO WORK BACK COARSE AGREGATE FROM THE FACE AND TO REINFORCE ALL AIR BUBBLES AND VOIDS. COMPACTION SHALL BE ASSISTED BY A SUFFICIENT NUMBER OF APROPRIATE IMMERSION THE YACE MAD TO REINFORM ALL NOT BE HELD AGAINST FORMS OR REINFORCING STEEL, NOR USED FOR SPREADING INTO PLACE. VIBRATORS SHALL NOT BE HELD IN OME PLACE SO LUNG AS TO RESULT IN SEGREGATOR NON LON'S PLACE SO LONG AS TO RESULT IN SEGREGATON OF CONCRETE MATERIALS OR FORMATION OF LATANCE ON THE SURFACE. LAITANCE ON THE SURFACE

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LOADING OF THE STRUCTURE IS NOT PERMITTED UNTIL THE CONCRETE HAS REACHED THE STRENGTH SPECIFIED.

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#### WATERPROOFING NOTE

- 1. BASEMENT SLAB.
- 2. LIFT PIT AND WALLS.
- 3. ALL LINING WALLS.
- 4. 1000mm STRIP AROUND PODIUM PERIMETER.





1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAW

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 <u>MUST</u> 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.

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7. THE PERIMETER CONTIGUOUS PILED WALL IS TO BE DESIGNED AS A CANTILEVER IN THE TEMPORARY CONDITION AND THE FINAL DESIGN OF ALL THE PILES 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:

10. SETTING OUT OF CONTIGUOUS PILED WALL OR BEARING PILES IS TO BE THE RESPONSIBILITY OF THE NOMINATED PILING CONTRACTOR.

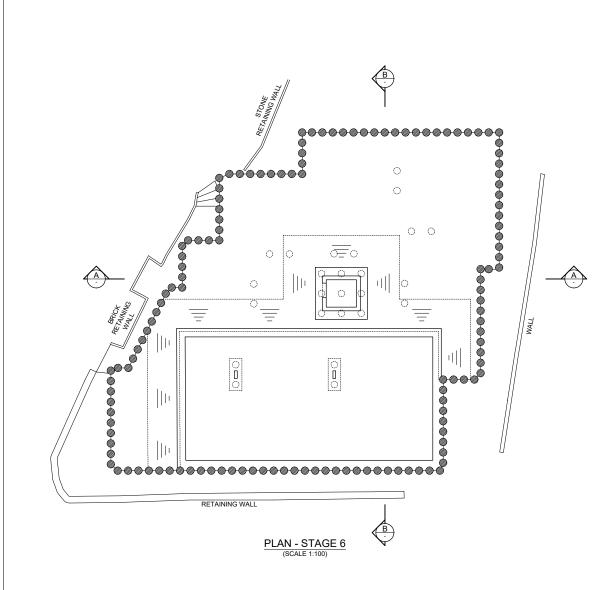
75mm OUT OF POSITION - VERTICAL ALIGNMENT = 1:50

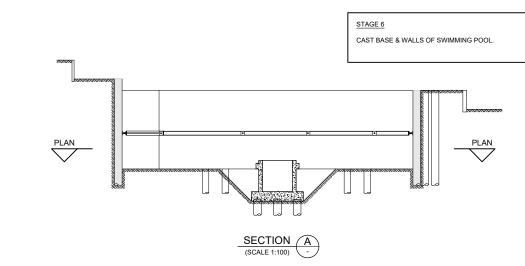
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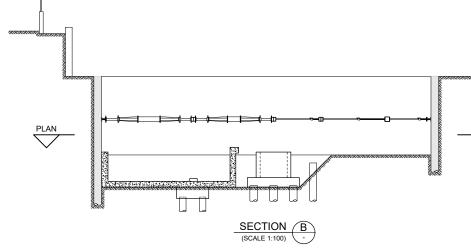
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### GENERAL NOTES

ENGINEER

CONCRETE

PILING

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#### WATERPROOFING NOTE

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10. SETTING OUT OF CONTIGUOUS PILED WALL OR BEARING PILES IS TO BE THE RESPONSIBILITY OF THE NOMINATED PILING CONTRACTOR.

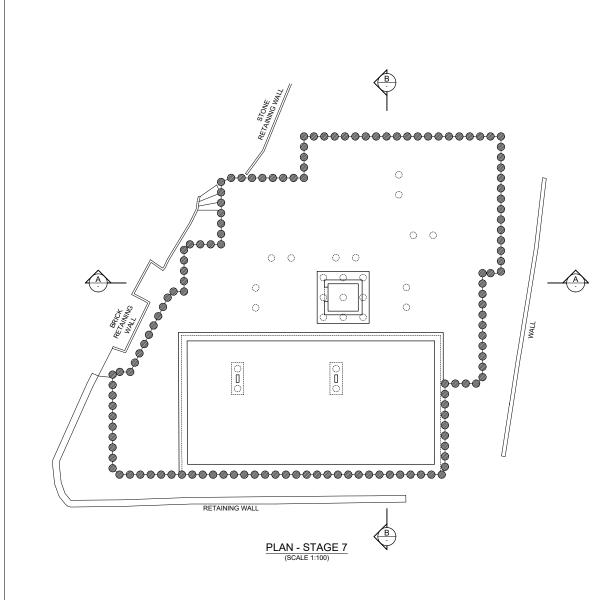
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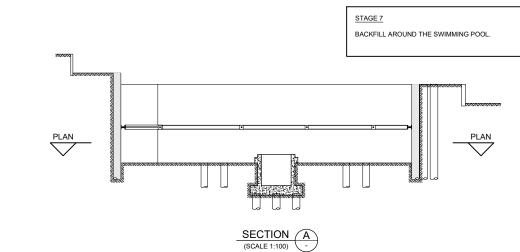
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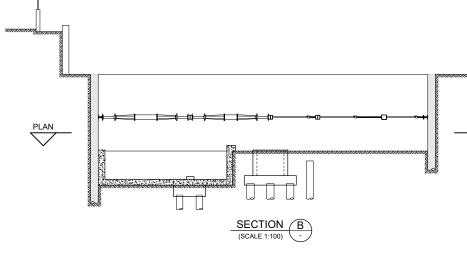
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1. MASS CONCRETE FOUNDATION TO BE A MINIMUM OF GEN1/ST2 MIX OR AS NOTED ON DRAWING.

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 ST5 PRESCRIBED MIX.

4. MINIMUM COVER TO REINFORCEMENT IN BURIED CONCRETE TO BE 50mm UNLESS OTHERWISE NOTED ON DRAWINGS.

2. ALL BEARING PILES ARE SHOWN ARE TO BE AS NOTED ON PLAN.

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.

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.

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2 ADMIXTURES

2 ADMIXTURES ALL CONCRETE SHALL CONTAIN CEMENTAID EVERDURE CALTITE IMPERMEABILITY INGREDIENT 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 350KGM3, 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 CEMENTIOS USEPRPLASTET 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.

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4. PLACING CONCRETE SHALL NOT BE PLACED AT CONCRETE TEMPERATURES BELOW 5°C, NOR ABOVE 3°C, AND MUST BE PLACED ACCORDING TO CURRENT CODES OF PRACTICE AND CHEMITAID RECOMMENDATIONS. CONCRETE RECEIVED FROM THE BATCH PLANT WHICH CANNOT BE PLACED FREE FROM HONEYCOMBS SHALL BE REJECTED BY THE CONTRACTOR. CARES FAILL BE TAKEN TO FILL EVERY PART OF THE FORMS, TO FORCE OCNCRETE UNDER AND AROUND REINFORCEMENT WITHOUT DISPLACING IT, TO WORK BACK COARSE AGREGATE FROM THE FACE AND TO REINFORCE ALL AIR BUBBLES AND VOIDS. COMPACTION SHALL BE ASSISTED BY A SUFFICIENT NUMBER OF APROPRIATE IMMERSION THE YACE MAD TO REINFORM ALL NOT BE HELD AGAINST FORMS OR REINFORCING STEEL, NOR USED FOR SPREADING INTO PLACE. VIBRATORS SHALL NOT BE HELD IN OME PLACE SO LUNG AS TO RESULT IN SEGREGATOR NON LON'S PLACE SO LONG AS TO RESULT IN SEGREGATON OF CONCRETE MATERIALS OR FORMATION OF LATANCE ON THE SURFACE. LAITANCE ON THE SURFACE.

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#### 8 SITE ATTENDANCE

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#### WATERPROOFING NOTE

- 1. BASEMENT SLAB.
- 2. LIFT PIT AND WALLS.
- 3. ALL LINING WALLS.
- 4. 1000mm STRIP AROUND PODIUM PERIMETER.



1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAW

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 <u>MUST</u> 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.

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6. ALL CONCRETE USED IS TO BE GRADE-RC40. (SEE TAK STRUCTURES LTD CONCRETE SPECIFICATION)

CONCRETE

PILING

7. THE PERIMETER CONTIGUOUS PILED WALL IS TO BE DESIGNED AS A CANTILEVER IN THE TEMPORARY CONDITION AND THE FINAL DESIGN OF ALL THE PILES 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

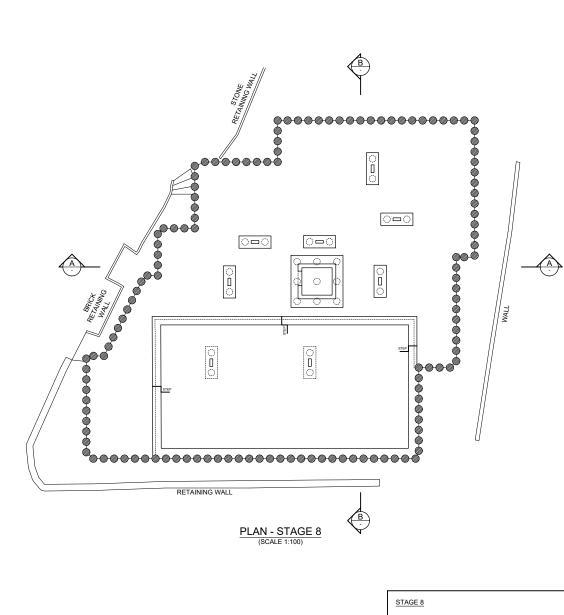
9. ALL PILING TO BE INSTALLED IN ACCORDANCE WITH THE INSTITUTION OF CIVIL ENGINEERS "SPECIFICATION FOR PILING AND EMBEDDED RETAINING WALLS". WITH THE FOLLOWING TOLERANCES: 75mm OUT OF POSITION - VERTICAL ALIGNMENT = 1:50

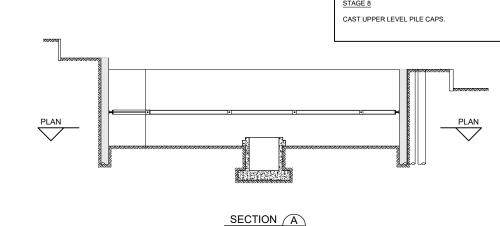
10. SETTING OUT OF CONTIGUOUS PILED WALL OR BEARING PILES IS TO BE THE RESPONSIBILITY OF THE NOMINATED PILING CONTRACTOR.

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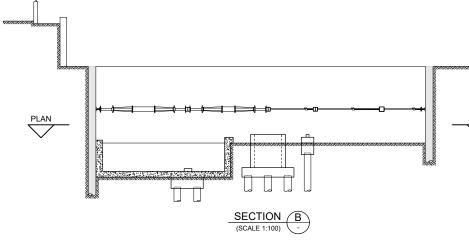
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(SCALE 1:100) \ -



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### GENERAL NOTES

ENGINEER

### CALTITE SYSTEM CONCRETE SPECIFICATION

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GRADE RC-40 TO DS-2 & AC-2 WITH SLEEVES THROUGH MADE GROUND.

(SEE TAK CONCRETE SPECIFICATION & SITE INVESTIGATION REPORT)

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#### 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. 1000mm STRIP AROUND PODIUM PERIMETER.



2 ADMIXTURES

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VERTICAL LOADING = 230KN/m<sup>2</sup> LINE LOAD GENERALLY (NOTE: LINE LOAD SPREAD INTO PILES THROUGH THE R.C CAPPING BEAM).

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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 A CANTILEVER IN THE TEMPORARY CONDITION AND THE FINAL DESIGN OF ALL THE PILES 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 PILING

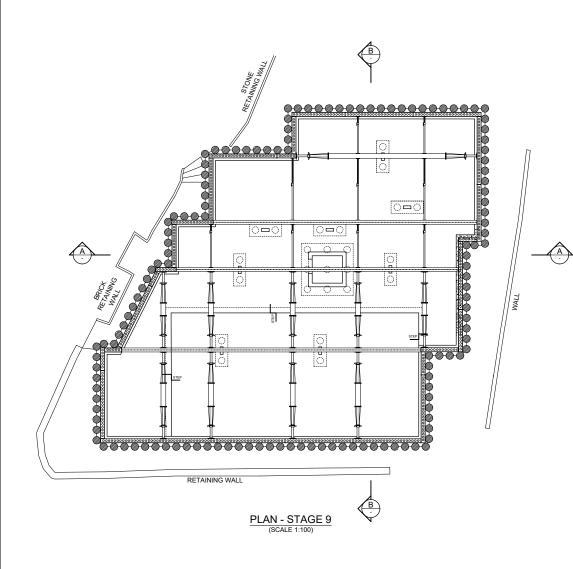
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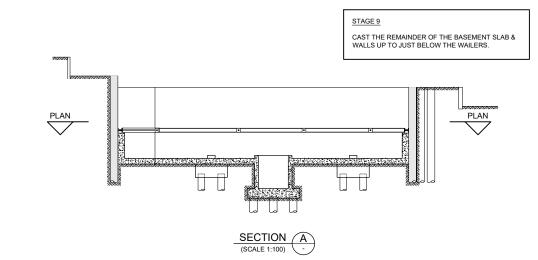
# 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS

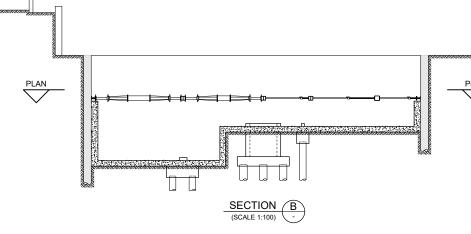
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CONCRETE

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT

### GENERAL NOTES

ARCHITECTS AND ENGINEERS DRAV

# ENGINEER

#### CALTITE SYSTEM CONCRETE SPECIFICATION

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#### 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. 1000mm STRIP AROUND PODIUM PERIMETER.

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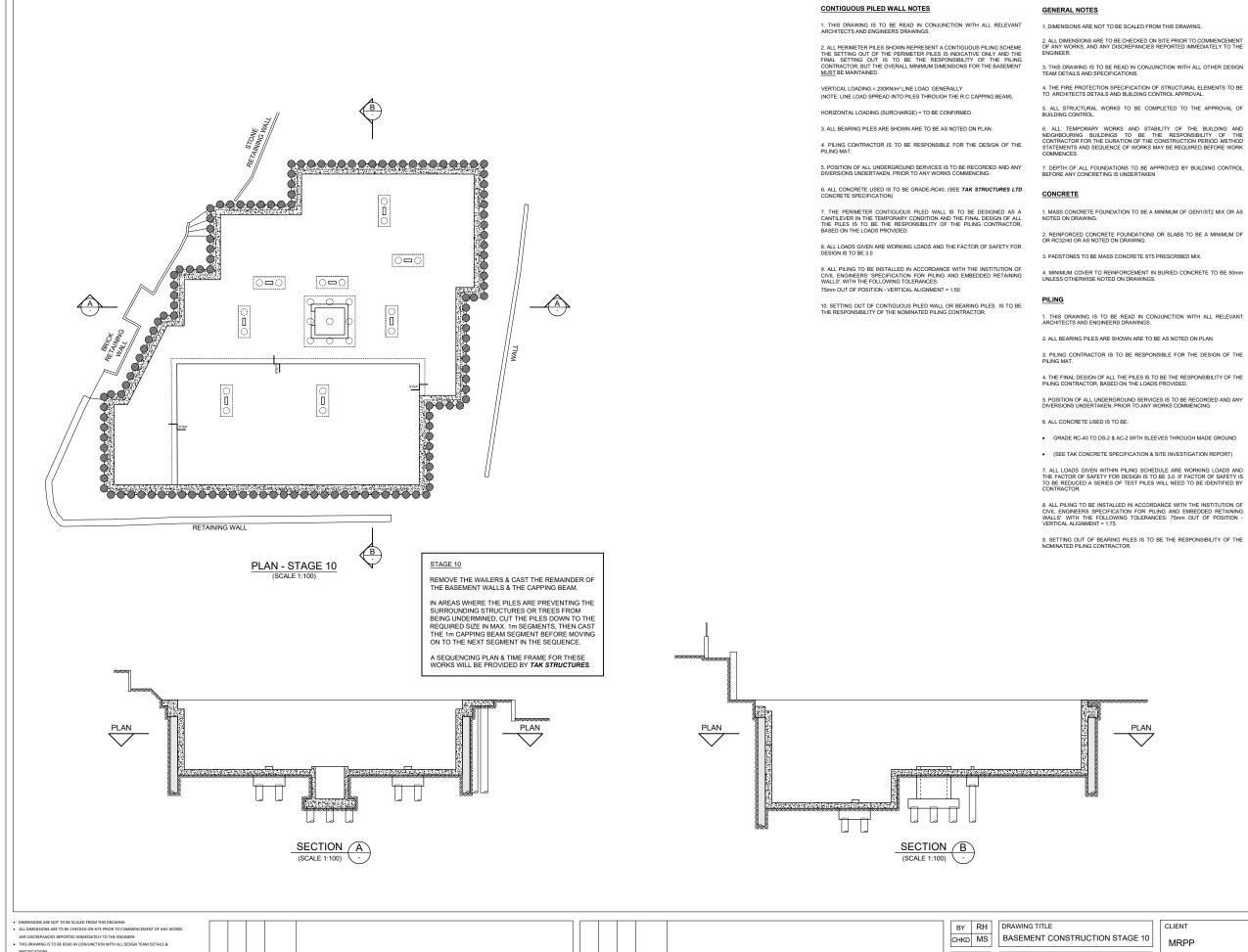
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METHOD STATEMENTS AND SEQUENCE OF WORKS MAY BE REQUIRED BEFORE WORK COMMENCES	REV	BY	CHKD	DATE	NOTES
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### CALTITE SYSTEM CONCRETE SPECIFICATION

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2. REINFORCED CONCRETE FOUNDATIONS OR SLABS TO BE A MINIMUM OF OR RC32/40 OR AS NOTED ON DRAWING.

4. MINIMUM COVER TO REINFORCEMENT IN BURIED CONCRETE TO BE 50mm UNLESS OTHERWISE NOTED ON DRAWINGS.

5. POSITION OF ALL UNDERGROUND SERVICES IS TO BE RECORDED AND ANY DIVERSIONS UNDERTAKEN, PRIOR TO ANY WORKS COMMENCING.

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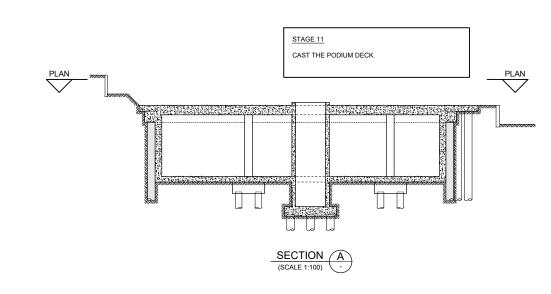
- 1. BASEMENT SLAB.
- 2. LIFT PIT AND WALLS.
- 3. ALL LINING WALLS.
- 4. 1000mm STRIP AROUND PODIUM PERIMETER.

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#### 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 <u>MUST</u> 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 A CANTILEVER IN THE TEMPORARY CONDITION AND THE FINAL DESIGN OF ALL THE PILES 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.

# 1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS

GENERAL NOTES

ENGINEER

CONCRETE

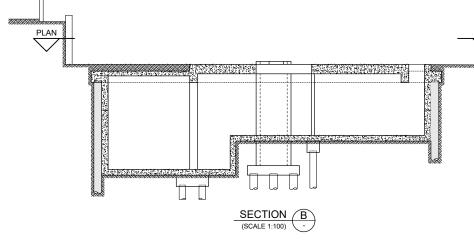
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### CALTITE SYSTEM CONCRETE SPECIFICATION

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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.

3. ALL STRUCTURAL WORKS TO BE COMPLETED TO THE APPROVAL OF JUILDING 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

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 ST5 PRESCRIBED MIX.

MINIMUM COVER TO REINFORCEMENT IN BURIED CONCRETE TO BE 50mm UNLESS OTHERWISE NOTED ON DRAWINGS.

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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.

GRADE RC-40 TO DS-2 & AC-2 WITH SLEEVES THROUGH MADE GROUND.

(SEE TAK CONCRETE SPECIFICATION & SITE INVESTIGATION REPORT)

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.

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