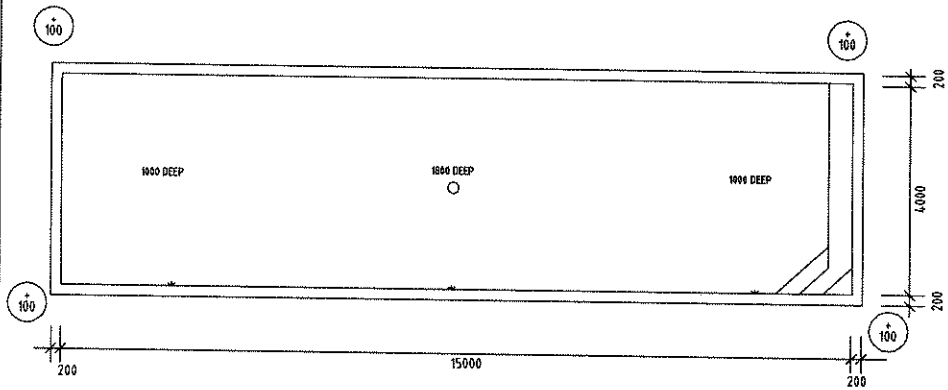


POOL WATER CAPACITY IS 74875 LITRES. THIS POOL IS GREATER THAN 40,000 LITRES, THEREFORE A BASIX CERTIFICATE IS REQUIRED.



POOL PLAN
SCALE 1:100@A3

LEVELS SHOWN INDICATE FINISHED STRUCTURAL LEVEL
 ABOVE
 OR BELOW EXISTING GROUND LEVELS

GENERAL

- G1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS2783 - 1992.
- G2 THE SETTING OUT DIMENSIONS SHALL BE CHECKED ON SITE PRIOR TO COMMENCING EXCAVATION.
- G3 ANY UNFORSEEN VARIATIONS TO THE ASSUMED SITE CONDITIONS SHALL BE REFERRED TO THE ENGINEER PRIOR TO PROCEEDING.
- G4 THE WALKWAYS AND COPINGS HAVE BEEN DESIGNED FOR A LIVE LOAD OF 4kPa. THE ENGINEER SHALL BE NOTIFIED OF ANY PROPOSED VARIATION TO THIS PRIOR TO PLACING THE REINFORCEMENT.
- G5 PRIOR TO EMPTYING THE POOL, THE OWNER SHALL ENSURE THAT ALL EXTERNAL GROUNDWATER HAS BEEN REMOVED FROM THE BASE AND WALLS OF THE POOL.
- G6 THE ENGINEER SHALL BE NOTIFIED IF THE POOL IS OUT OF THE GROUND BY MORE THAN 900.
- G7 THE DETAILS PRESENTED ON THE FOLLOWING SHEETS COMPLY WITH THE REQUIREMENTS OF AS2783-1992.

CONCRETE

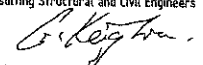
- C1 ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH AS3600.
- C2 ALL CONCRETE SHALL HAVE A MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH OF 25MPa AND HAVE A MAXIMUM AGGREGATE SIZE OF 10mm AND A MAXIMUM SLUMP OF 80mm UNLESS NOTED OTHERWISE.
- C3 WHERE THE POOL IS LOCATED WITHIN 1km OF LARGE EXPANSES OF SALT WATER THE CONCRETE SHELL SHALL HAVE A MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH OF 32MPa.
- C4 CONCRETE SIZES SHOWN DO NOT INCLUDE FINISH AND MUST NOT BE REDUCED OR HOLED IN ANY WAY WITHOUT THE APPROVAL OF THE ENGINEER. HOWEVER, THE RADIUS OR CONCRETE THICKNESS MAY BE INCREASED.
- C5 UNLESS OTHERWISE NOTED, CLEAR CONCRETE COVER SHALL BE IN ACCORDANCE WITH AS2783-1992.
- C6 CONCRETE COVER SHALL BE MAINTAINED BY THE USE OF APPROVED CHAIRS AT APPROXIMATELY 750 CROSS CENTRES.
- C7 ALL CONCRETE SHALL BE CURED BY THE OWNER FOR A MINIMUM OF 7 DAYS AFTER POURING BY KEEPING ALL EXPOSED SURFACES WET WITH WATER.
- C8 S NOTATION TO REINFORCEMENT DENOTES GRADE 230 DEFORMED BAR.
- C9 UNLESS OTHERWISE NOTED, ALL REINFORCEMENT LAPS SHALL BE A MINIMUM OF 500mm.
- C10 PROVIDE 10mm CONTROL JOINTS IN THE WALKWAY FINISH AT MAXIMUM 4000 CENTRES AND AT POINTS OF RE-ENTRANT CORNERS IN PLAN.
- C11 PROVIDE 10mm CONTROL JOINTS BETWEEN THE PERMETER EDGE OF THE POOL AND ALL ABUTTING CONCRETE OR MASONRY FINISHES.

FOUNDATION

- F1 THE DESIGN OF THE POOL HAS BEEN BASED ON BEING SUPPORTED BY UNIFORM NATURAL GROUND WITH A MINIMUM SAFE BEARING VALUE OF 150kPa (UNLESS SHOWN AS SUSPENDED ON PIERS). THE BUILDER SHALL NOTIFY THE ENGINEER IF ANY OTHER GROUND CONDITIONS ARE ENCOUNTERED PRIOR TO COMPLETING THE EXCAVATION. THE BUILDER SHALL ALSO NOTIFY THE ENGINEER IF A CLASS 'H', 'E' OR 'P' SUBGRADE IS ENCOUNTERED.
- F2 THE EXCAVATION SHALL BE KEPT FREE OF WATER. ANY SOFTENED SUBGRADE MATERIAL SHALL BE REMOVED AND REPLACED WITH COMPACTED GRANULAR FILL PRIOR TO PROCEEDING.
- F3 THE UNDERSIDE OF THE POOL SHALL BE SEPARATED FROM THE SUBGRADE WITH A 200µm POLYTHENE MEMBRANE OVER 50 CRUSHED STONE, COARSE AGGREGATE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
- F4 ANY PROPOSED EXCAVATIONS WHICH ARE TO BE WITHIN THE ZONE OF INFLUENCE OF AN EXISTING STRUCTURE SHALL BE REFERRED TO THE ENGINEER PRIOR TO COMMENCEMENT.

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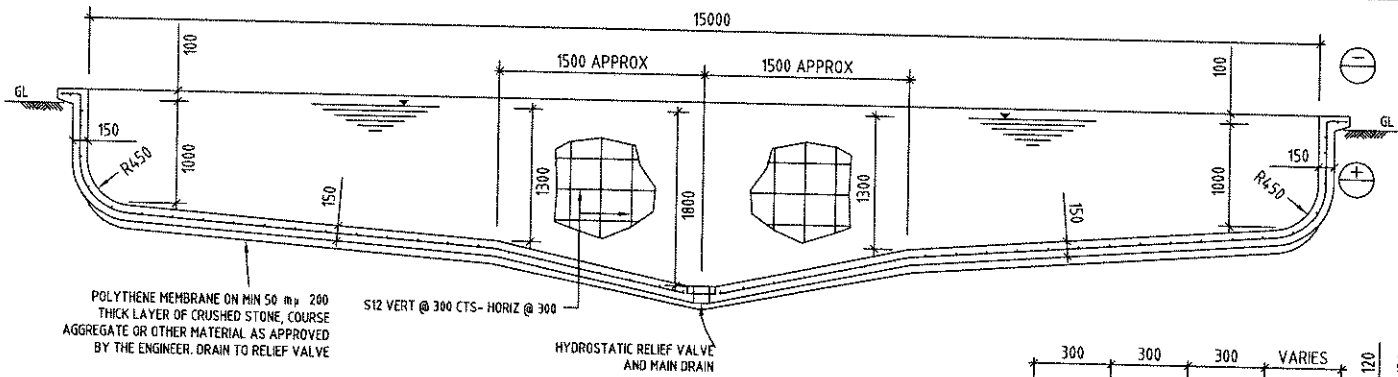
BLUE HAVEN POOLS SOUTH PTY LTD
 Site Plan & Pool Plans prepared by Blue Haven Pools & Spas Pty Ltd
 58 Hume Highway Lansvale NSW 2166
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 Consulting Structural and Civil Engineers
 ABN 25 003 832 291
 APPROVED  DATE 29/01/17
 BE (Hons), MEngSoc, FIEAust, CPEng
 Registered NPER 3719 (Structural & Civil)

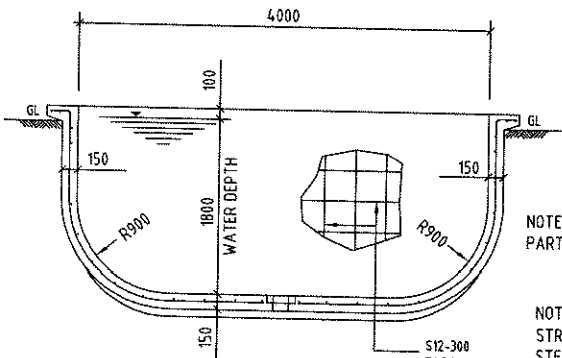


PROPOSED SWIMMING POOL STRUCTURAL DETAILS
 FOR: SWAIN
 AT: 224-230 HINXMAN RD, CASTLEREAGH. NSW

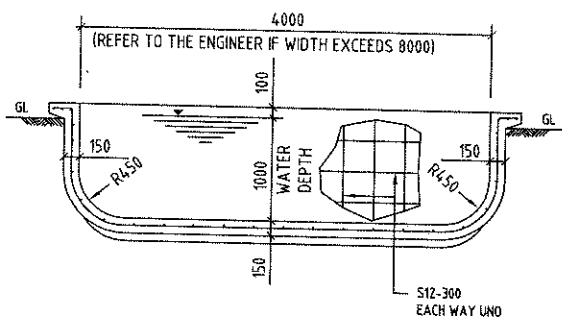
DATE: 29/01/17	SHEET 1 OF 5
DRAWN: JF	
CONTRACT No./DRAWING No. 17S2236	



LONGITUDINAL SECTION- DEEP MID
1:50



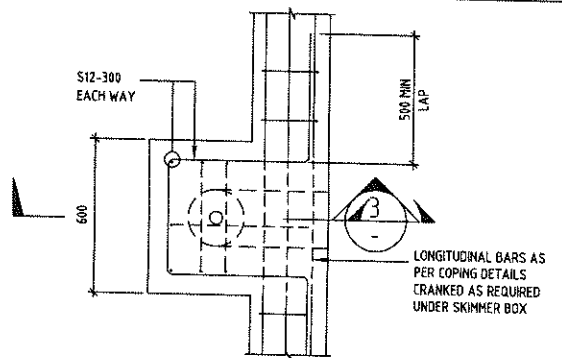
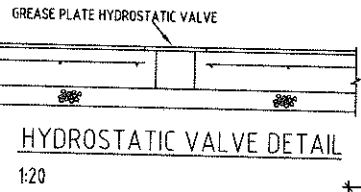
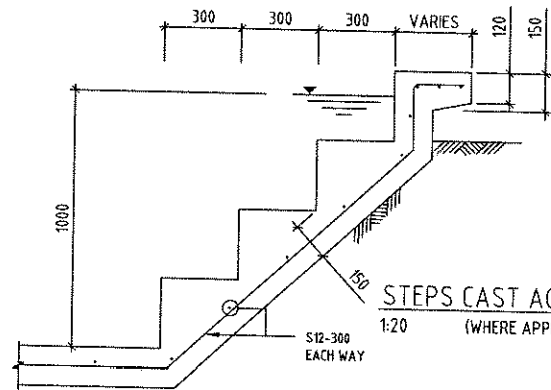
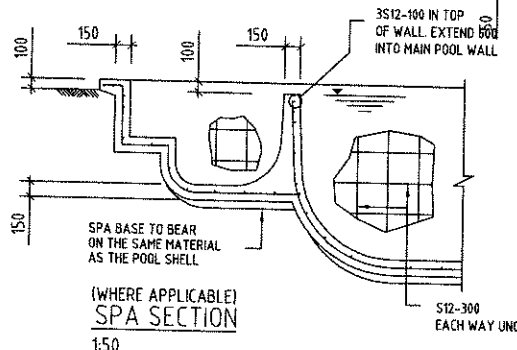
DEEP END SECTION
1:50



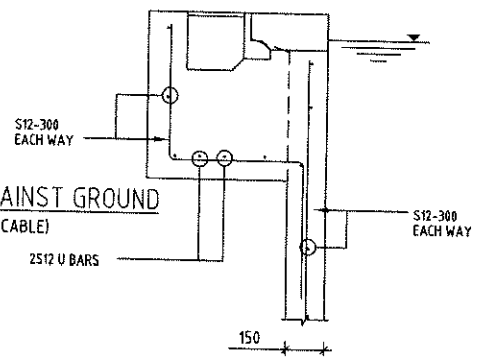
SHALLOW END SECTION
1:50

NOTE: THESE STRUCTURAL POOL PLANS FORM NO PART OF ANY CONTRACT

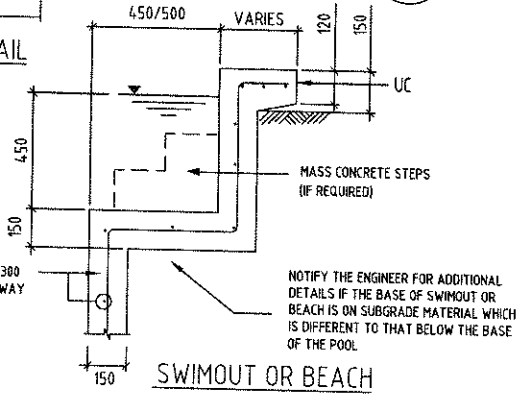
NOTE: ALL BASE OF POOL TO BE FOUNDED ON SAME STRATA (ROCK), PROVIDE PEIRS AND ADDITIONAL STEEL AS PER STRUCTURAL ENGINEERS DETAIL. NOT IN CONTRACT PRICE, TO BE CONFIRMED BY SUPERVISOR ON SITE



PLAN OF SKIMMER
1:20



SECTION
1:20



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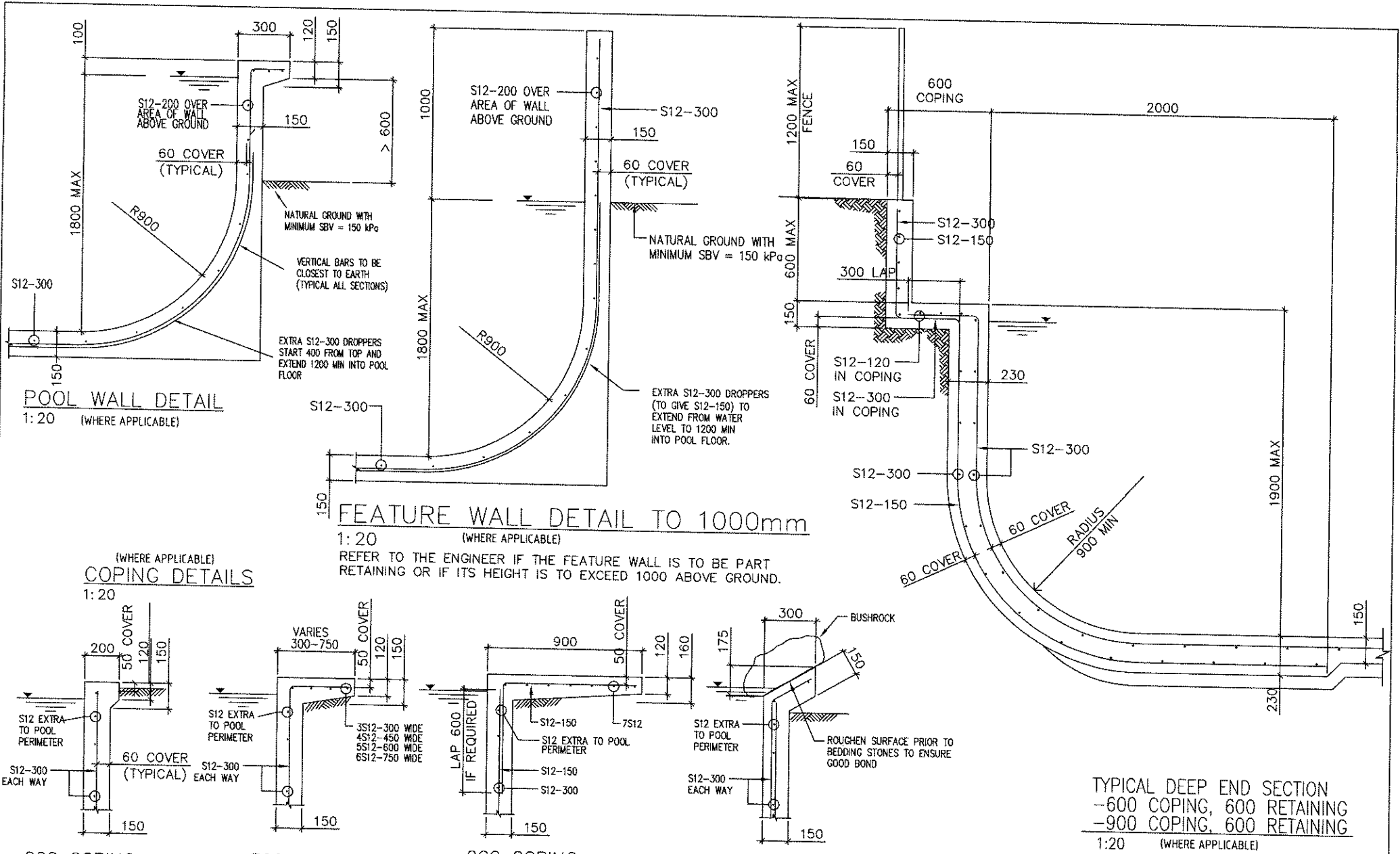
Keighran and Associates Pty Ltd
Consulting Structural and Civil Engineers
ABN 25 003 632 291
APPROVED *[Signature]* DATE 29 / 01 / 17
BE (Hons), MEngSci, FIEAust, CPEng
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PROPOSED SWIMMING POOL STRUCTURAL DETAILS
FOR: SWAIN
AT: 224-230 HINXMAN RD, CASTLEREAGH. NSW

DATE: 29/01/17	SHEET 2 OF 5
DRAWN: JF	
CONTRACT No./DRAWING No. 17S2236	

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68 Hume Highway Lansvale NSW 2166
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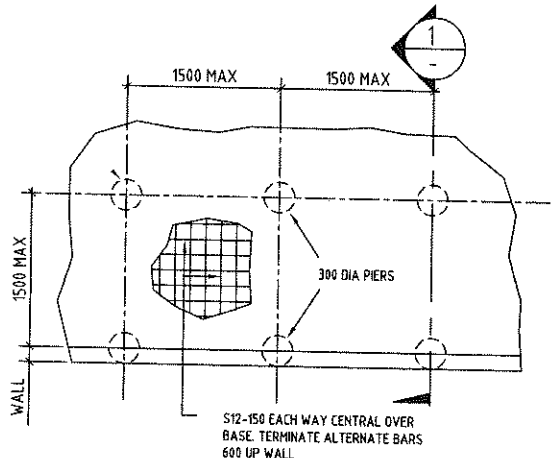
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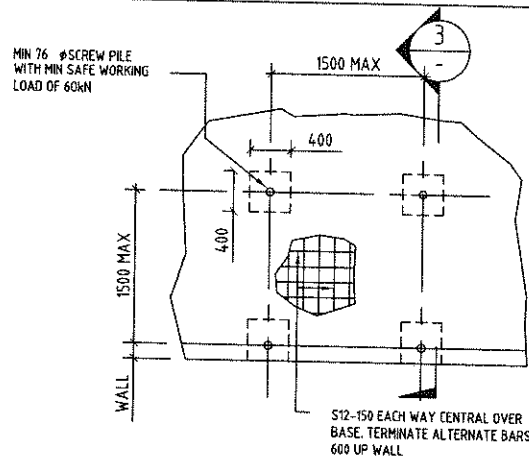


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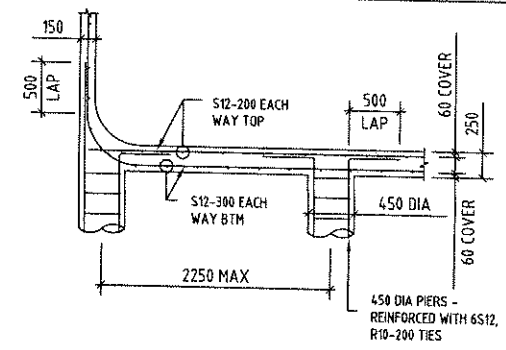
DATE: 29/01/17
 DRAWN: JF
 SHEET 3 OF 5
 CONTRACT No./DRAWING No.
 17S2236



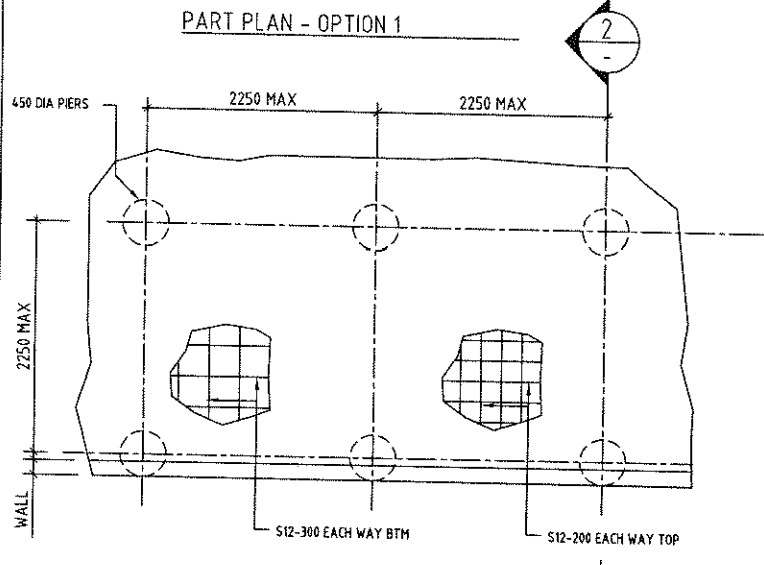
PART PLAN - OPTION 1



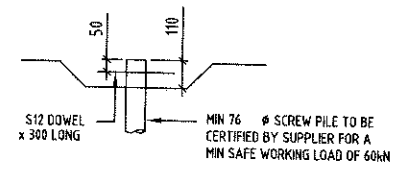
PART PLAN - OPTION 3



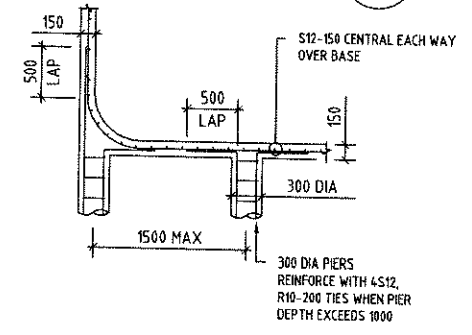
SECTION 2
1: 50 (WHERE APPLICABLE)



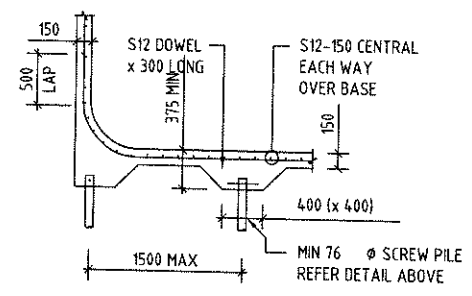
PART PLAN - OPTION 2
SUSPENDED POOL PLANS
1: 50 (WHERE APPLICABLE)



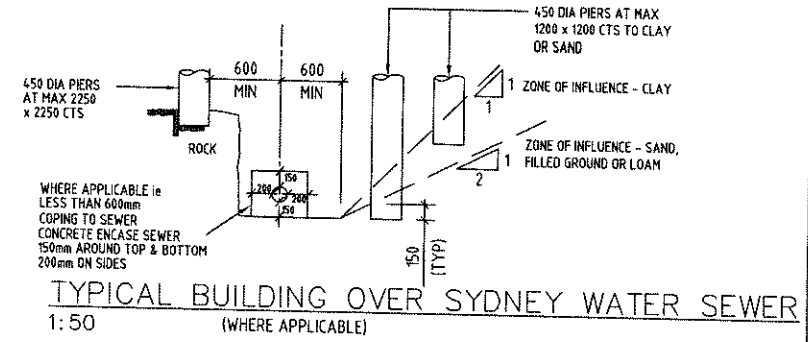
SCREW PILE DETAIL
1: 20 (WHERE APPLICABLE)



SECTION 1
1: 50 (WHERE APPLICABLE)



SECTION 3
1: 20 (WHERE APPLICABLE)



TYPICAL BUILDING OVER SYDNEY WATER SEWER
1: 50 (WHERE APPLICABLE)

PIERS
F_c = 20 MPa
60 COVER TO REINFORCEMENT
PIERS TO BE FOUNDED IN UNIFORM ROCK WITH A SAFE BEARING VALUE OF 800 kPa. REFER TO THE ENGINEER IF DEPTH OF PIERS EXCEEDS 3000

1. CLAY OR SAND TO HAVE A MINIMUM SAFE BEARING VALUE OF 200kPa
2. ROCK TO HAVE A MINIMUM SAFE BEARING VALUE OF 800kPa
3. POOL BASE TO BE AS PER SUSPENDED POOL FOR RELEVANT PIER SPACING

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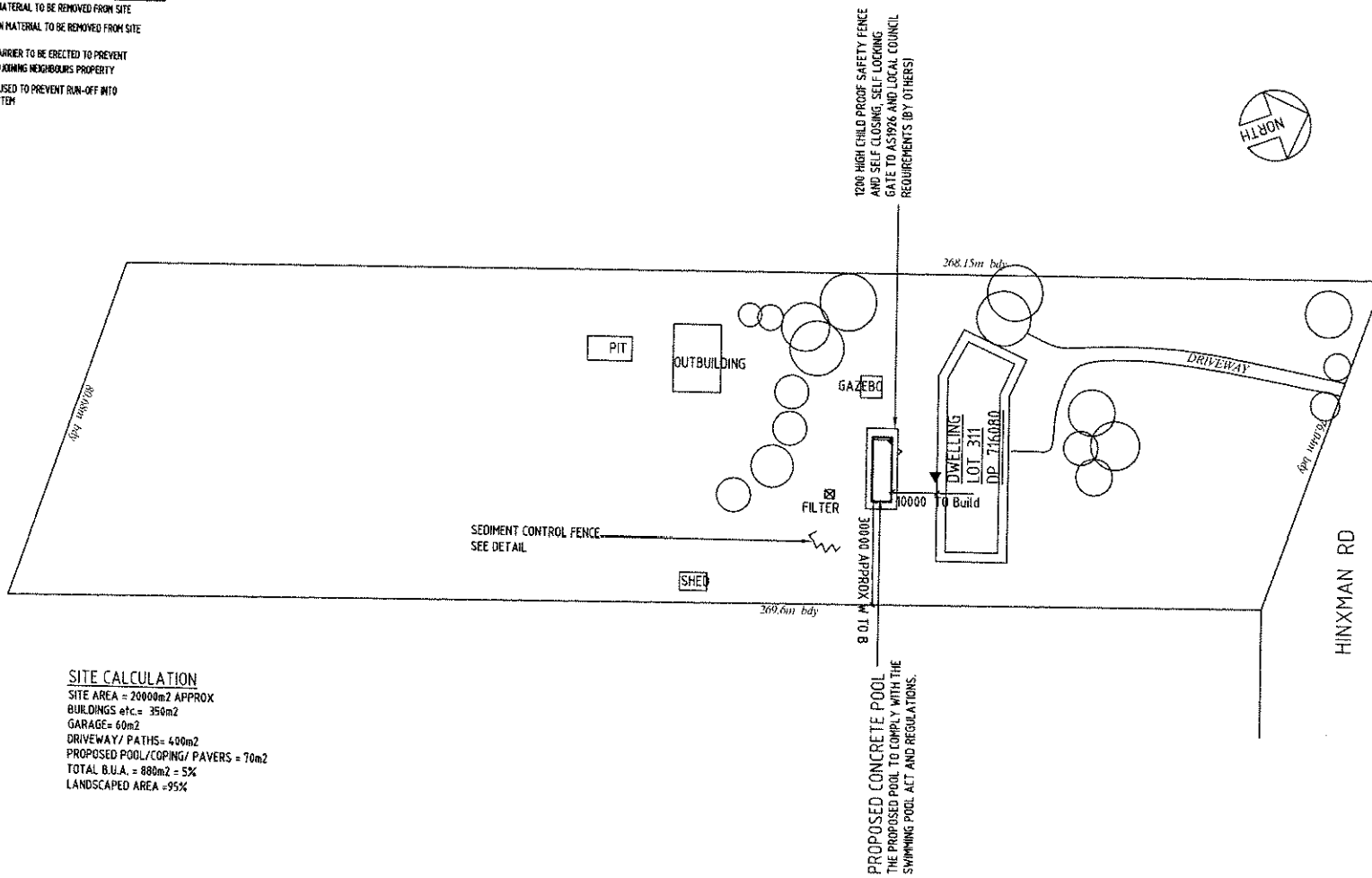


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DRAWN: JF
SHEET 4 OF 5
CONTRACT No./DRAWING No.
17S2236

WASTE MANAGEMENT PLAN

ALL EXCAVATED MATERIAL TO BE REMOVED FROM SITE
 ALL CONSTRUCTION MATERIAL TO BE REMOVED FROM SITE
 SEDIMENTATION BARRIER TO BE ERRECTED TO PREVENT
 RUN-OFF INTO ADJACING NEIGHBOURS PROPERTY
 SANDBAGS TO BE USED TO PREVENT RUN-OFF INTO
 STORMWATER SYSTEM



SITE CALCULATION

SITE AREA = 20000m² APPROX
 BUILDINGS etc = 350m²
 GARAGE = 60m²
 DRIVEWAY/ PATHS = 400m²
 PROPOSED POOL/ COPING/ PAVERS = 70m²
 TOTAL B.U.A. = 880m² = 5%
 LANDSCAPED AREA = 95%

▼ DATUM - BACK SLAB as marked, Pool to be
 100 ABOVE the datum.

SITE PLAN
 SCALE 1:500

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Keighran and Associates Pty Ltd

Consulting Structural and Civil Engineers ABN 25 403 832 291

APPROVED

C. Keighran

DATE 29/01/17

BE (Hons), MEngSA, FIEAust, CPEng
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SHEET 5 OF 5

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