

Prevailing Wind Direction

Sun

Boundary

To Be Removed

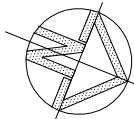
Existing Spot Heights

Paving

Existing Tree

## S I T E   A N A L Y S I S

DRAWING/CONTRACT No.  
BHP 20S4286



BM: Nail in kerb 20.00 [Assumed]  
The Pool Concrete Structure  
will be 620 above the BM (RL 22.62)

Enclose Pool Area To  
AS1926 Swimming Pool  
Fencing Standard &  
Council's Requirements

SEDIMENT FENCE  
LOCATION

POOL OVERFLOW TO BE PUMPED  
TO SEWER TO COUNCIL'S &  
SYDNEY WATER'S REQUIREMENTS

NOTE- FENCE LOCATIONS HAVE  
NOT BEEN DETERMINED IN  
RELATION TO BOUNDARIES

NOTE- THESE POOL PLANS ARE  
GENERIC CONTAINING TYPICAL  
DETAILS AND DO NOT FORM  
PART OF YOUR CONTRACT

## Legend

	Boundary
	To Be Removed
	Existing Spot Heights
	Paving
	Existing Tree

IDENTIFY & MARK THE LOCATION OF ALL  
ABOVE & BELOW GROUND SERVICES  
PRIOR TO COMMENCING ANY WORK.  
TAKE ALL REQUIRED PRECAUTIONS TO  
PREVENT DAMAGE TO SERVICES

BM: Nail in kerb 20.00 [Assumed]  
The Pool Concrete Structure  
will be 620 above the BM (RL 22.62)

Sound Proof Filter Box by Client

## SITE CALCULATIONS

SITE - 373.9m<sup>2</sup> (By Calc)

PROPOSED WORKS  
Proposed Pool - 18.7m<sup>2</sup>  
Proposed Pool Coping - 4.4m<sup>2</sup>

PROPOSED SOFT LANDSCAPED AREAS -TOTAL  
(Required - 10% of the lot area if the lot has an area of  
200-300m<sup>2</sup> = 37.4m<sup>2</sup>) (min 1.5m wide)

154.6m<sup>2</sup> (Complies)

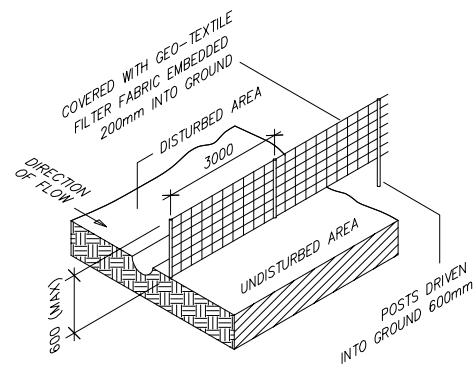
PROPOSED SOFT LANDSCAPED AREAS -Behind Building Line  
(Required - 50% of Landscape Area= 18.7m<sup>2</sup>)  
(min 1.5m wide)

96.2m<sup>2</sup> (Complies)

PROPOSED SOFT LANDSCAPED AREAS -In Front Building Line

(Required - If the lot has a width, measured at the building line,  
of more than 18m, at least 50% of the area forward of the  
building line to the primary road must be landscaped  
=68.2/2=34.1m<sup>2</sup>

58.4m<sup>2</sup> (Complies)



SEDIMENT FENCE DETAIL  
NOT TO SCALE

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Structural details only certified by:

SCALE 1-200

## SITE PLAN

### BLUE HAVEN POOLS SOUTH

Site Plan & Pool Plans prepared by Blue Haven Pools South  
68 Hume Highway Lansvale NSW 2166  
Telephone: (02) 9728 0444 Fax: (02) 9728 0455  
Licence Number 237620C ABN 78 133 909 369



Keighran and Associates Pty Ltd

Consulting Structural and Civil Engineers ABN 25 003 832 291

APPROVED

DATE 19/05/2020

BE (Hons), MEngSci, FIEAust, CPEng  
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PROPOSED SWIMMING POOL STRUCTURAL DETAILS

FOR Chris MAKER

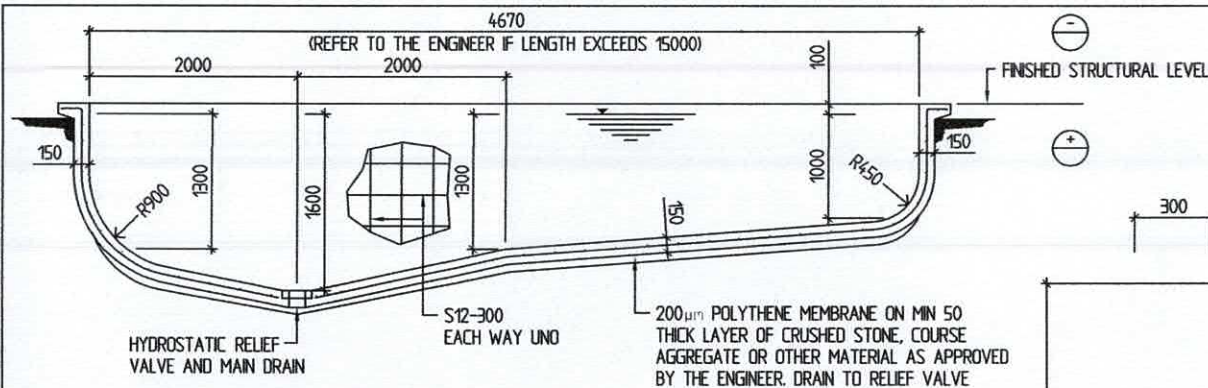
AT 3 BAZ RETREAT, WARRIEWOOD

DATE: 19/05/2020

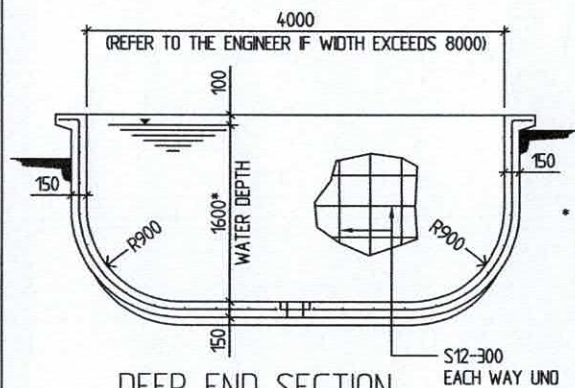
DRAWN: OL-B09

SHEET 2

DRAWING/CONTRACT No.  
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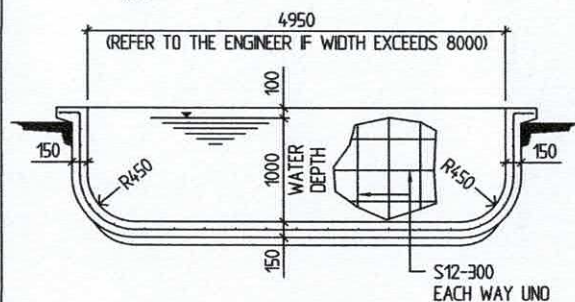


**LONGITUDINAL SECTION**  
1:50

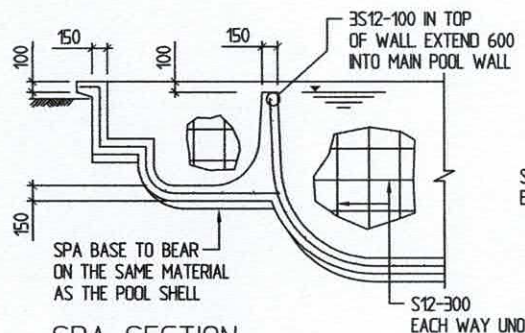


**DEEP END SECTION**  
1:50

\* WHERE DEPTH IS BETWEEN 1800 AND 2100 PROVIDE EXTRA DROPPERS TO GIVE S12-150. EXTEND DROPPERS FROM 400 BELOW THE TOPS OF WALLS TO 1200 INTO THE POOL FLOOR. WHERE DEPTH EXCEEDS 2100 REFER TO THE ENGINEER

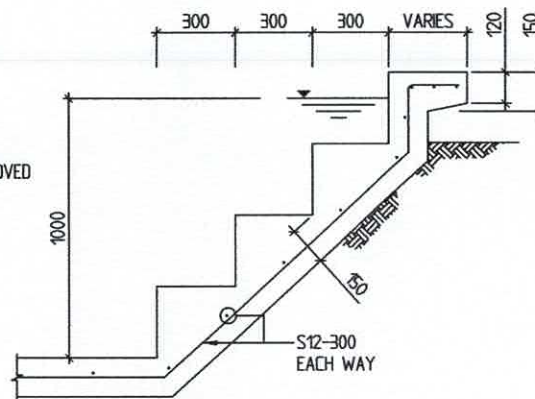


**SHALLOW END SECTION**  
1:50

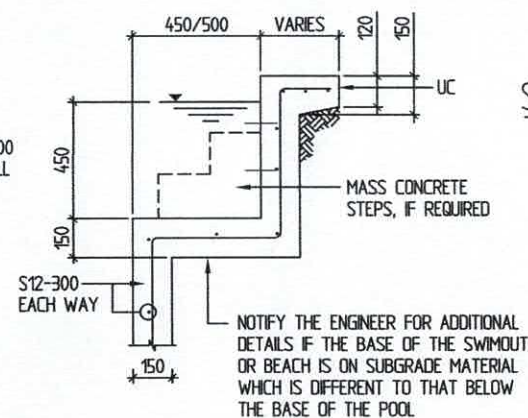


**SPA SECTION**  
1:50

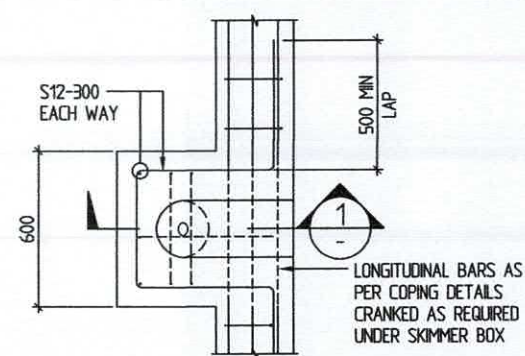
Structural details only certified by:



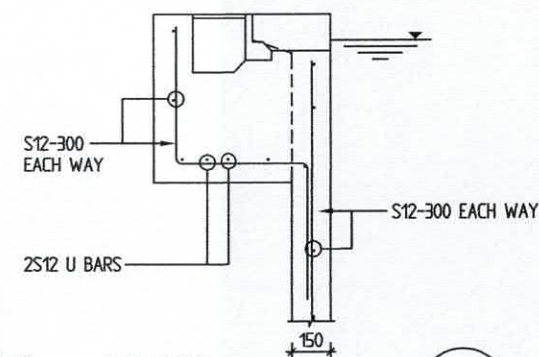
**STEPS CAST AGAINST GROUND**  
1:20



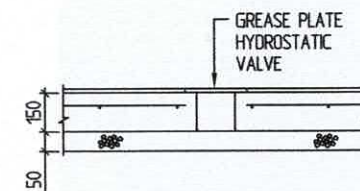
**SWIMOUT OR BEACH**  
1:20



**PLAN OF SKIMMER**  
1:20



**SECTION**  
1:20



**HYDROSTATIC VALVE DETAIL**  
1:20

**BLUE HAVEN POOLS & SPAS PTY LTD**

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Telephone: (02) 9728 0444 Fax: (02) 9754 2906



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Consulting Structural and Civil Engineers ABN 25 003 832 291

APPROVED *G. Keighran* DATE 19/05/2020

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PROPOSED SWIMMING POOL STRUCTURAL DETAILS  
FOR Chris MAKER  
AT 3 BAZ RETREAT, WARRIWOOD

AMENDED PLAN  
AMEND A 9/7/18 For DA

DATE: 19/05/2020

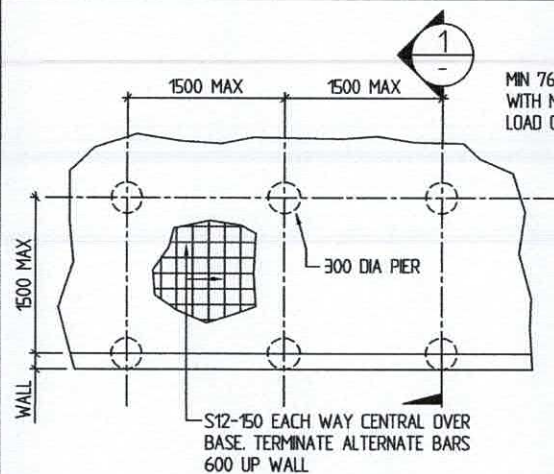
SHEET 3

DRAWN: OL-B09

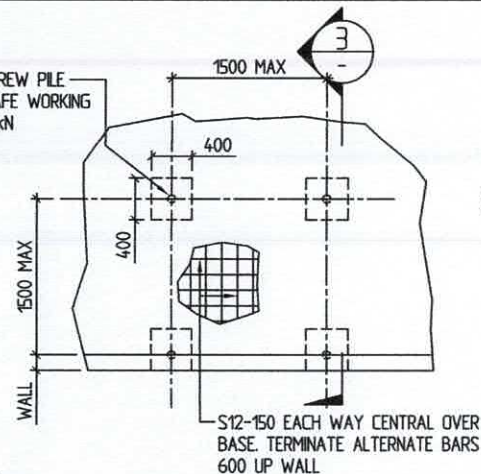
DRAWING/CONTRACT No.

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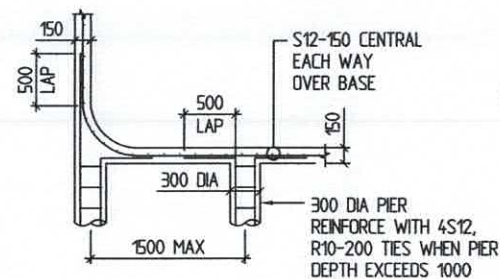




PART PLAN - OPTION 1

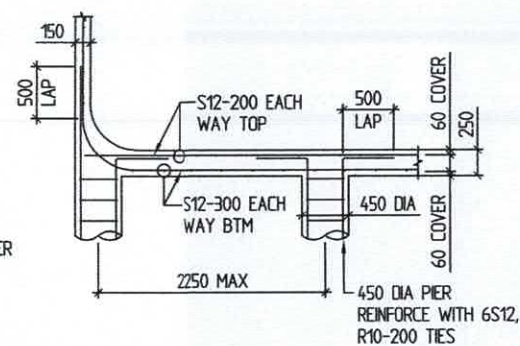


PART PLAN - OPTION 3



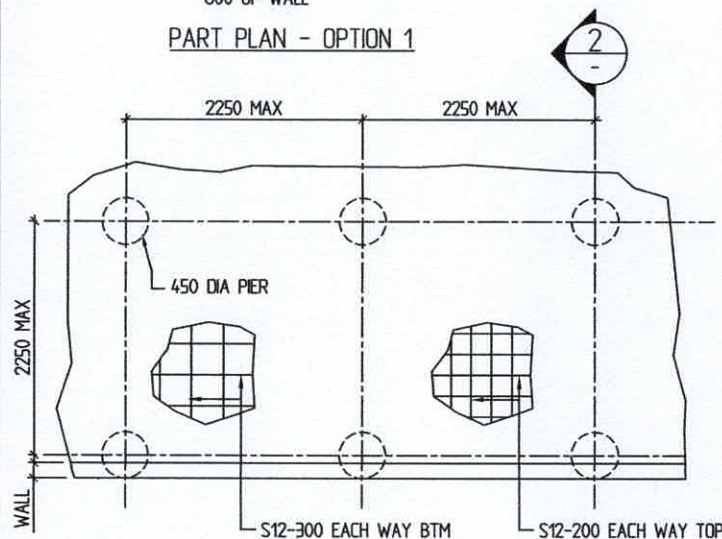
SECTION 1

1:50



SECTION 2

1:50



PART PLAN - OPTION 2

## SUSPENDED POOL PLANS

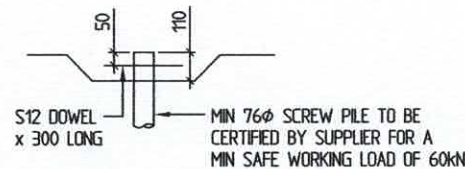
1:50

PIERS

$F'c = 20 \text{ MPa}$

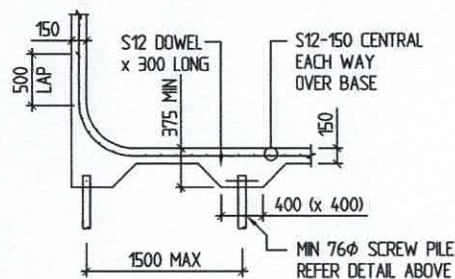
60 COVER TO REINFORCEMENT

UNLESS NOTED OTHERWISE, 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



## SCREW PILE DETAIL

1:20

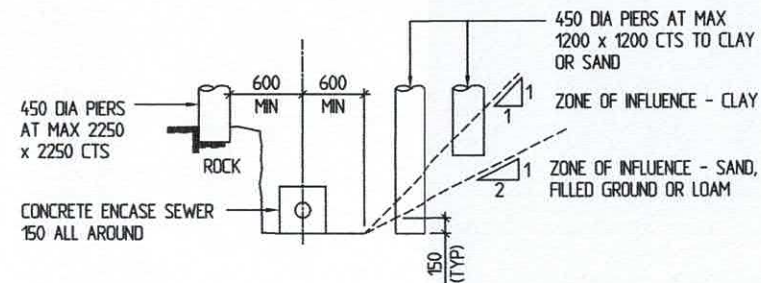


SECTION 3

1:50

AMENDED PLAN

AMEND A 9/7/18 For DA



## TYPICAL BUILDING OVER SYDNEY WATER SEWER

1:50

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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APPROVED

*G. Keighran*

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PROPOSED SWIMMING POOL STRUCTURAL DETAILS  
FOR Chris MAKER  
AT 3 BAZ RETREAT, WARRIEWOOD

DATE: 19/05/2020

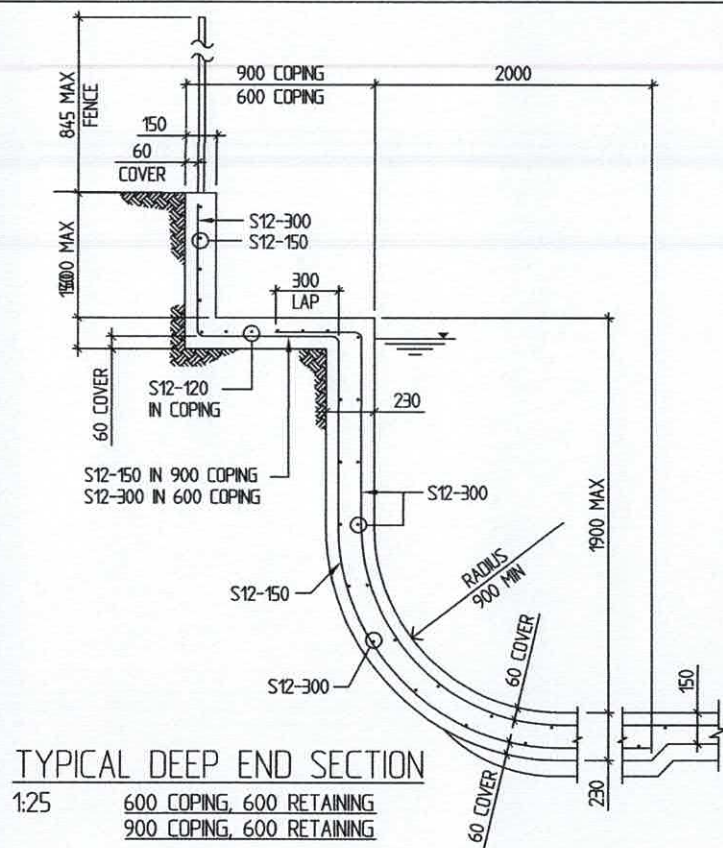
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SHEET 4

DRAWING/CONTRACT No.

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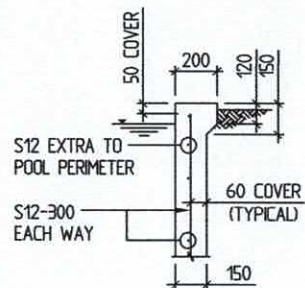




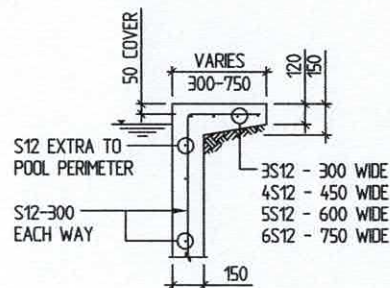
TYPICAL DEEP END SECTION

1:25

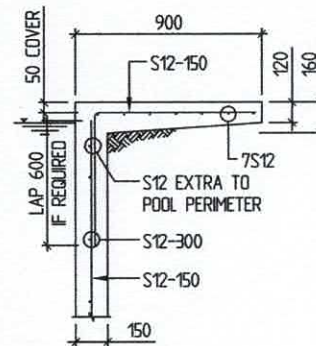
600 COPING, 600 RETAINING  
900 COPING, 600 RETAINING



200 COPING



300 - 750 COPING



900 COPING

NOTIFY ENGINEER IF FENCE IS PROPOSED TO BE ERECTED AT OUTER EDGE OF COPING

COPING DETAILS

1:25

Structural details only certified by:

AMENDED PLAN

AMEND A 9/7/18 For DA

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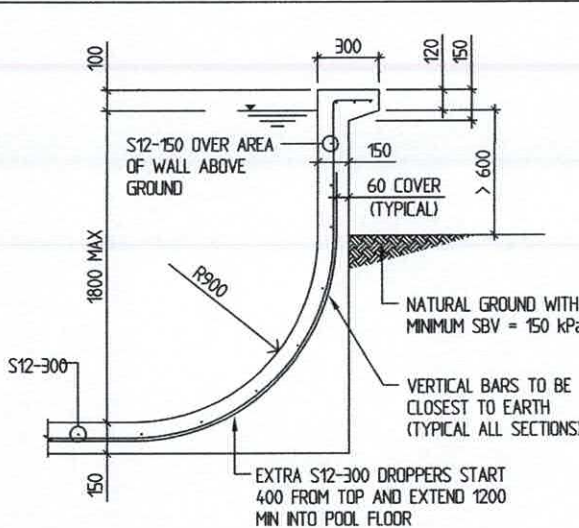
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APPROVED *[Signature]* DATE 19/05/2020

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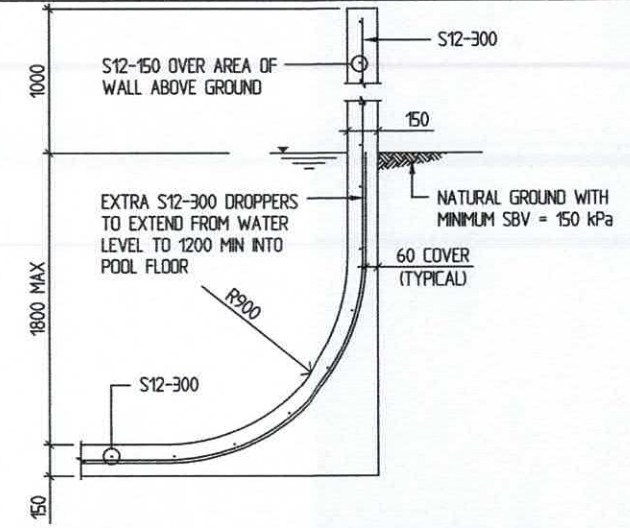


PROPOSED SWIMMING POOL STRUCTURAL DETAILS  
FOR Chris MAKER  
AT 3 BAZ RETREAT, WARRIEWOOD



POOL WALL DETAIL

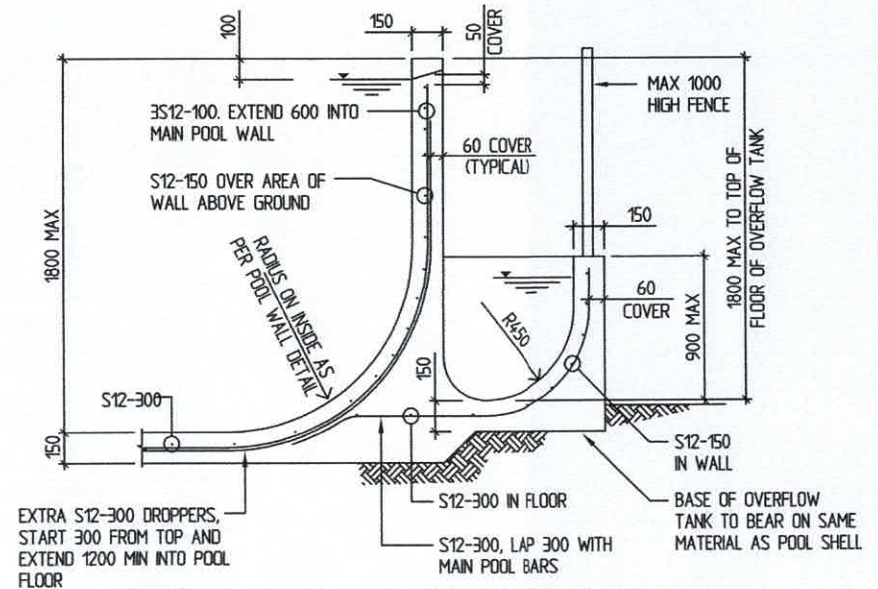
1:25



FEATURE WALL DETAIL TO 1000 HIGH

1:25

REFER TO THE ENGINEER IF THE FEATURE WALL IS TO BE PART RETAINING OR IF ITS HEIGHT IS TO EXCEED 1000 ABOVE GROUND



INFINITY EDGE AND OVERFLOW TANK DETAIL

1:25

DATE: 19/05/2020

SHEET 5

DRAWN: OL-B09

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GENERAL

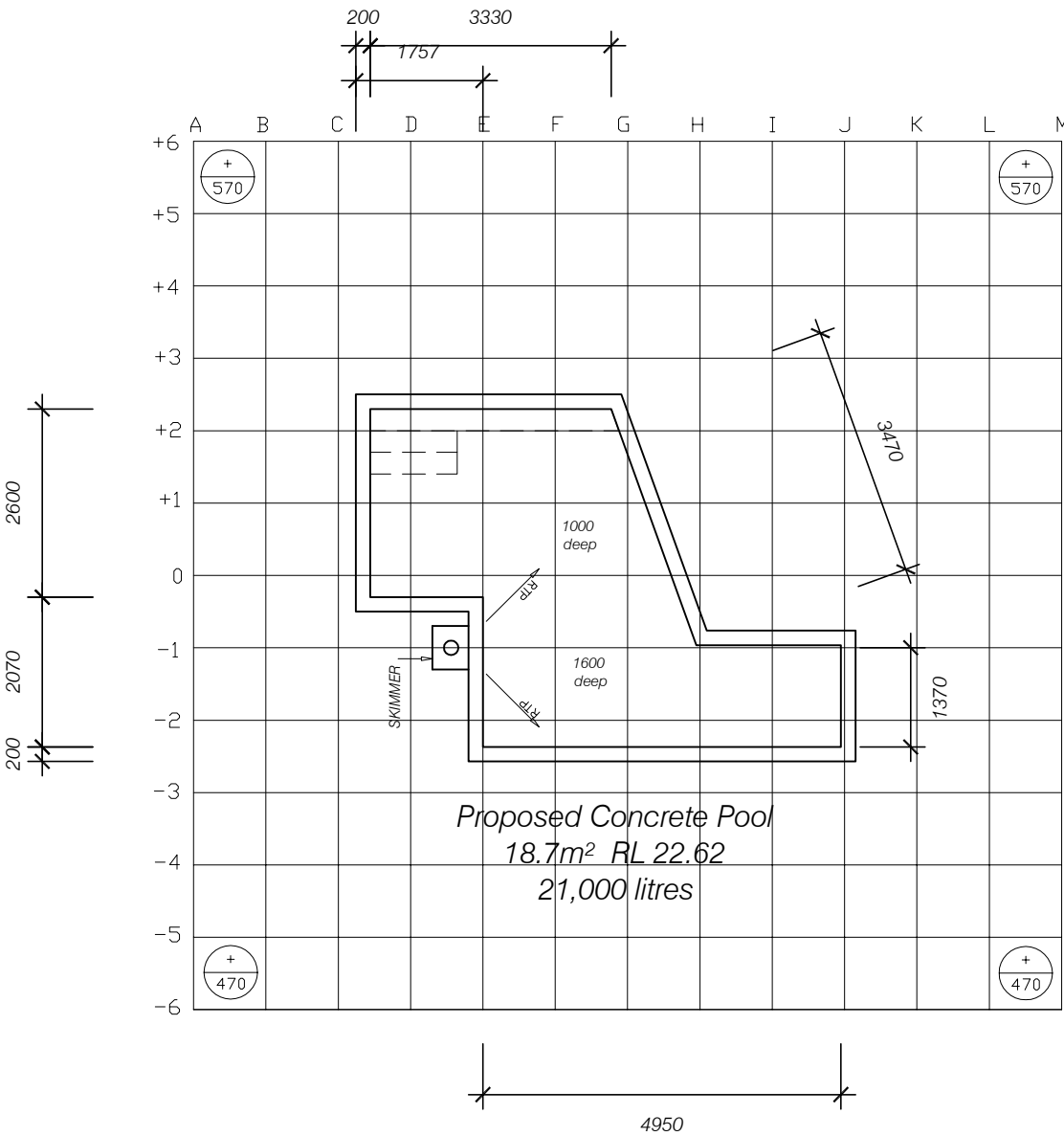
- G1
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS2783 - 1992.
- G2
- THE SETTING OUT DIMENSIONS SHALL BE CHECKED ON SITE PRIOR TO COMMENCING EXCAVATION.
- G3
- ANY UNFORSEEN VARIATIONS TO THE ASSUMED SITE CONDITIONS SHALL BE REFERRED TO THE ENGINEER PRIOR TO PROCEEDING.
- G4
- THE WALKWAYS 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 PERIMETER 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.



LEVELS SHOWN INDICATE FINISHED STRUCTURAL LEVEL

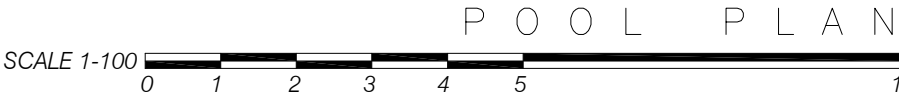
+

ABOVE

-

OR BELOW EXISTING GROUND LEVELS

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PROPOSED SWIMMING POOL STRUCTURAL DETAILS

FOR Chris MAKER

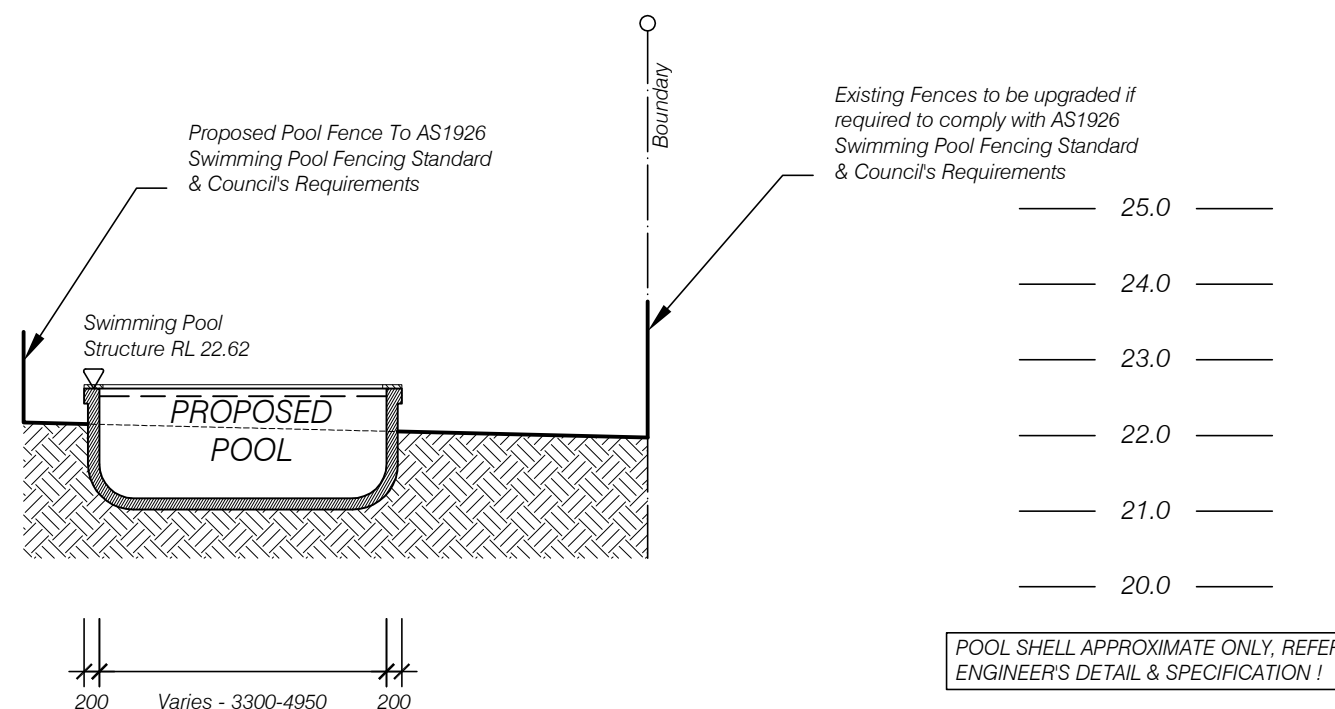
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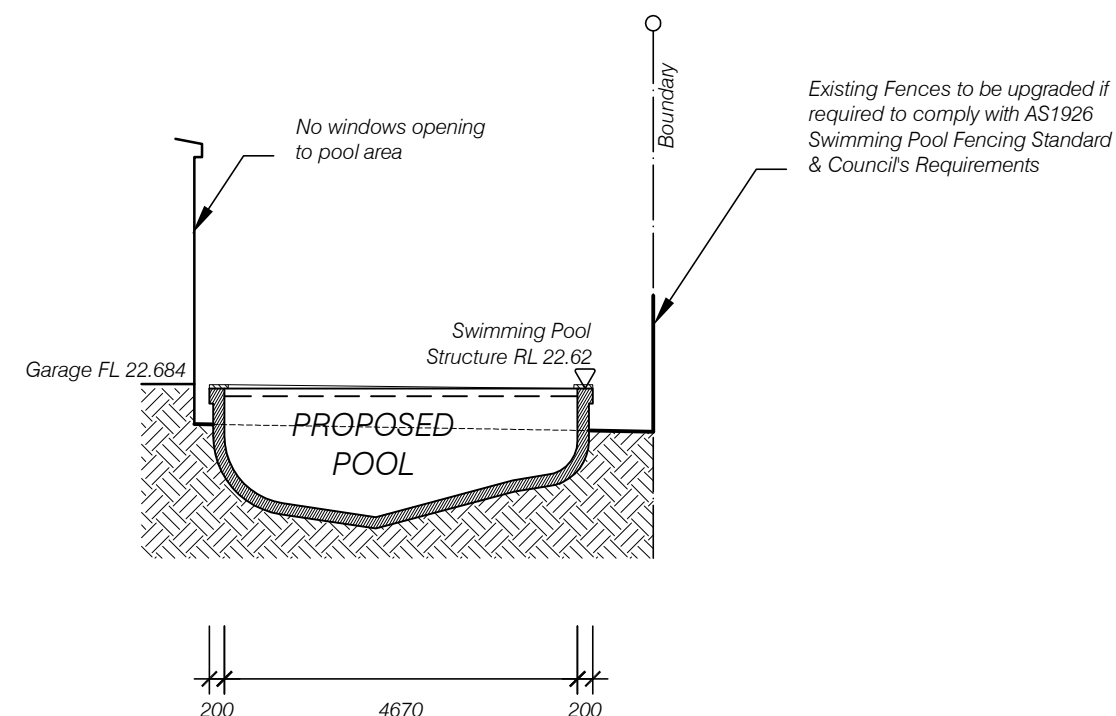
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SHEET 6

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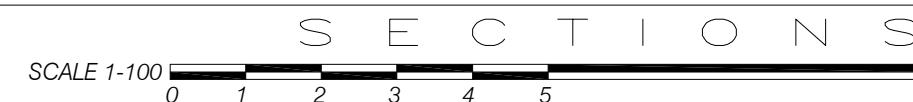


**Section X**  
1 - 100 @ A3



**Section Y**  
1 - 100 @ A3

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P R O P O S E D S W I M M I N G P O O L  
FOR Chris MAKER  
AT 3 BAZ RETREAT, WARRIEWOOD

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SHEET 7

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