

The diagram shows a rectangular swimming pool with the following specifications:

- Overall Dimensions:** Length is 7000 mm (with a note "REFER TO THE ENGINEER IF LENGTH EXCEEDS 15000"). Width is 1600 mm.
- Pool Wall Details:**
 - S12-100. EXTEND 600 INTO MAIN POOL WALL
 - MAX 1200 HIGH FENCE
 - 900 MAX COVER
 - S12-200 IN WALL
 - S12-300 LAP 300 WITH MAIN POOL BARS
 - S12-300 W/F 200
- Internal Features:**
 - A central octagonal island with a grid pattern.
 - HYDROSTATIC RELIEF VALVE AND MAIN DRAIN at the bottom center.
 - S12-300 EACH WAY UNO near the drain.
- Construction Notes:**
 - R450 (radius) at the corners.
 - 1400 APPROX (width) for the main pool area.
 - 1500 (length) segments for the top wall.
 - 1000 (width) for the side wall.
 - 200 μ m POLYTHENE MEMBRANE ON MIN 50 THICK LAYER OF CRUSHED STONE, COURSE AGGREGATE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER. DRAIN TO RELIEF VALVE



northern
beaches
council

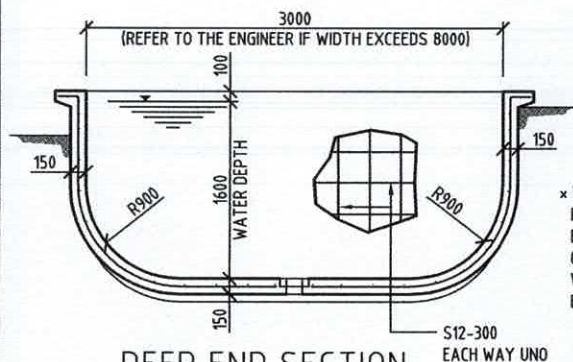
**THIS PLAN IS TO BE READ IN
CONJUNCTION WITH
THE CONDITIONS OF DEVELOPMENT
CONSENT**

DA2020/1340

LONGITUDINAL SECTION

1:50

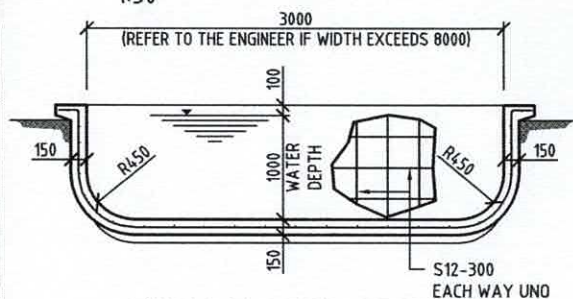
WITH OPTIONAL OVERFLOW TANK
BASE OF OVERFLOW TANK TO BEAR
ON SAME MATERIAL AS POOL SHELL



x WHERE DEPTH IS BETWEEN 1800 AND 2100
PROVIDE EXTRA DROPPERS TO GIVE \$12-150.
EXTEND DROPPERS FROM 400 BELOW THE TOPS
OF WALLS TO 1200 INTO THE POOL FLOOR.
WHERE DEPTH EXCEEDS 2100 REFER TO THE
ENGINEER

DEEP END SECTION

1:50

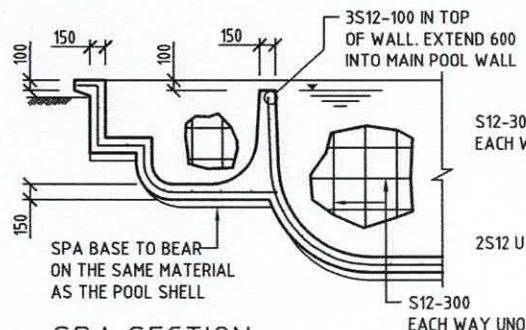


SHALLOW END SECTION

1:50

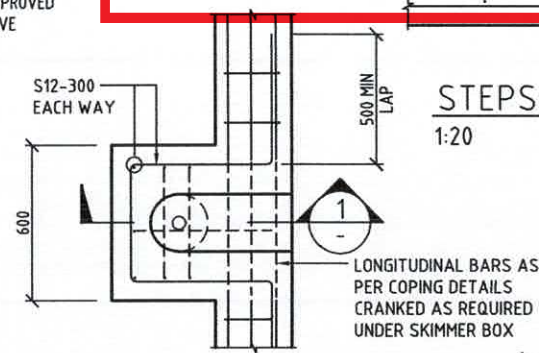
SPA SECTION

1:50



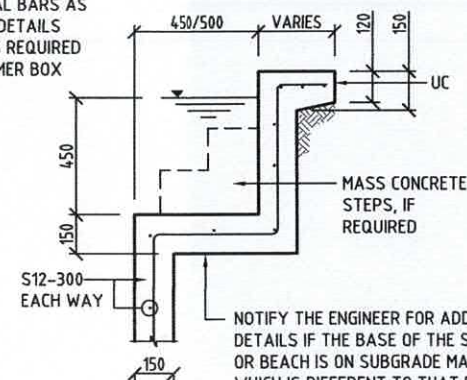
PLAN OF SKIMMER

1:20



STEPS CAST AGAINST GROUND

1:20



NOTIFY THE ENGINEER FOR ADDITIONAL
DETAILS IF THE BASE OF THE SWIMOUT
OR BEACH IS ON SUBGRADE MATERIAL
WHICH IS DIFFERENT TO THAT BELOW
THE BASE OF THE POOL

SWIMOUT OR BEACH

1:20

SECTION

1:20

Structural details only certified by:

BLUE HAVEN POOLS SOUTH PTY LTD

Site Plan & Pool Plans prepared by Blue Haven Pools & Spas Pty Ltd
68 Hume Highway Lansvale NSW 2166
Telephone: (02) 9728 0444 Fax: (02) 9754 2906
Licence Number - 237620C ABN 78 133 909 369



Keighran and Associates Pty Ltd

Consulting Structural and Civil Engineers

APPROVED

ABN 25 003 832 291

DATE 25 / 09 / 20

BE (Hons), MEngSci, FIEAust, CPEng
Registered NPER 3719 (Structural & Mechanical)



PROPOSED SWIMMING POOL STRUCTURAL DETAILS

FOR: J. WOODS

AT: LOT 4 DP 226681

5 KUNARI PLACE MONA VALE 2103

REV	DATE	DESCRIPTION	DWG/CONTRACT NO.	
A	25.09.20	INITIAL ISSUE	20S4548	
			SHEET	REV
			2 OF 4	A

THESE DETAILS ARE GENERIC AND DO NOT FORM PART OF YOUR CONTRACT

300 120 150

1800 MAX

S12-150 OVER AREA OF WALL ABOVE GROUND

150

60 COVER (TYPICAL)

NATURAL GROUND WITH MINIMUM SBV = 150 kPa

VERTICAL BARS TO BE CLOSEST TO EARTH (TYPICAL ALL SECTIONS)

R900

EXTRA S12-300 DROPPERS START 400 FROM TOP AND EXTEND 1200 MIN INTO POOL FLOOR

150

S12-300

1000

1800 MAX

S12-150 OVER AREA OF WALL ABOVE GROUND

150

60 COVER (TYPICAL)

NATURAL GROUND WITH MINIMUM SBV = 150 kPa

EXTRA S12-300 DROPPERS TO EXTEND FROM WATER LEVEL TO 1200 MIN INTO POOL FLOOR

R900

150

S12-300

1200 MAX FENCE

600 MAX

150

60 COVER

S12-300

S12-150

300 LAP

S12-120 IN COPING

230

900 COPING

600 COPING


2000

S12-150 IN 900 COPING

S12-300 IN 600 COPING

THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE CONDITIONS OF DEVELOPMENT CONSENT

DA2020/1340

 northern beaches council

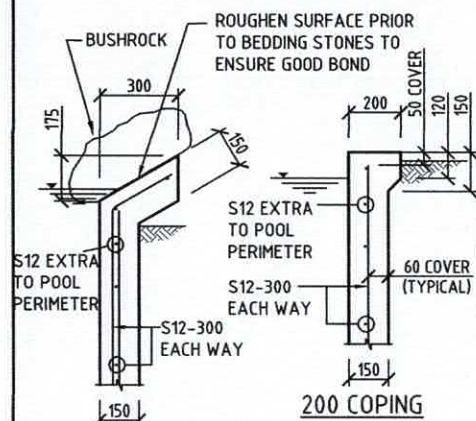


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CONSENT**

DA2020/1340

1:20

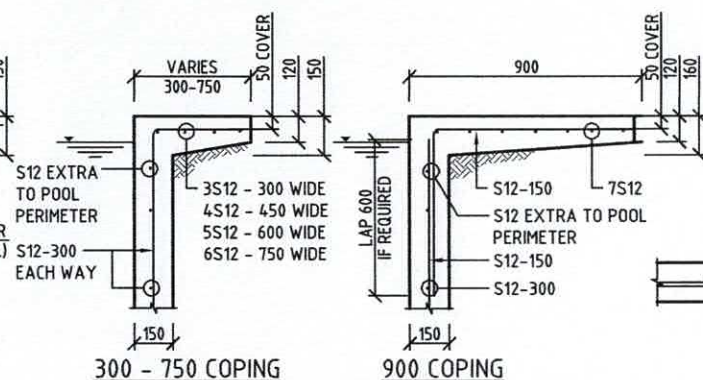
REFER TO THE ENGINEER IF THE
WIDTH OF THE COPING EXCEEDS 300



BUSHROCK COPING

1:20

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



COPING DETAILS

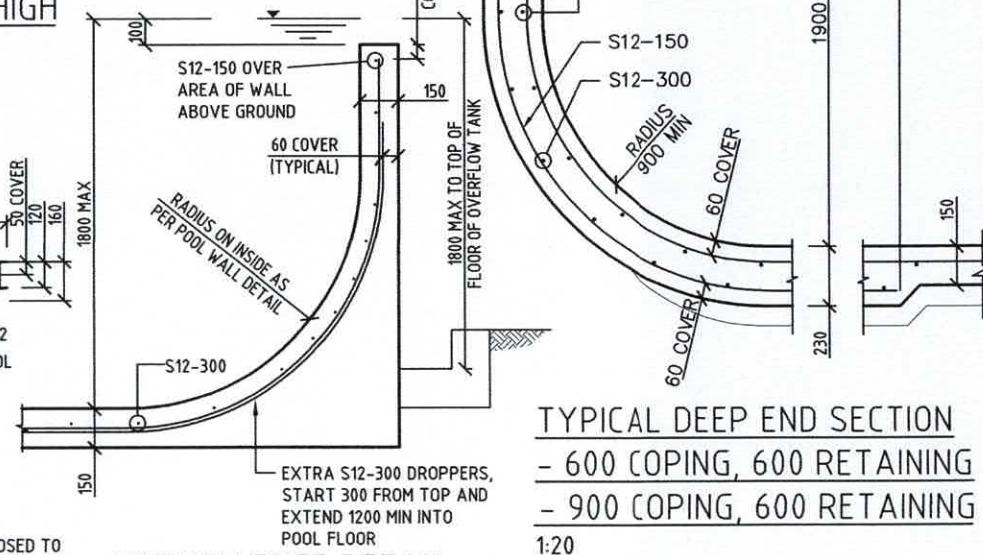
1:20

Structural details only certified by:

REFER TO THE ENGINEER IF A FENCE IS PROPOSED TO BE ERECTED AT THE OUTER EDGE OF THE COPING OR IF THE COPING IS ABOVE THE GROUND

INFINITY EDGE DETAIL

1:20



TYPICAL DEEP END SECTION

- 600 COPING, 600 RETAINING

- 900 COPING, 600 RETAINING

1:20

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49M 25 002 922 291

APPROVED *[Signature]*

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1

1500 MAX

1500 MAX

300 DIA PIER

S12-150 EACH WAY CENTRAL OVER

WALL

NEW PILE LIFE WORKING

1500 MAX

400

3

WALL

1500 MAX

400

S13 150 EACH WAY CENTRAL OVER

Diagram illustrating the reinforcement detail for a pier. The pier is 300 DIA. The reinforcement includes S12-150 CENTRAL EACH WAY OVER BASE. The lap length is 500. The maximum length is 1500 MAX. The pier is reinforced with 4S12, R10-200 TIES WHEN PIER DEPTH EXCEEDS 1000.

SECTION
1:50

150

500 LAP

500 LAP

60 COVER

250

S12-200 EACH WAY TOP

S12-300 EACH WAY BTM

450 DIA

2250 MAX

450 DIA PIER REINFORCE WITH 65S12, R10-200 TIES

SECTION 1:50 northern beaches council

DA2020/1340

50

110

S12 DOWEL
x 300 LONG

MIN 76φ SREW PILE TO BE
CERTIFIED BY SUPPLIER FOR A
MIN SAFE WORKING LOAD OF 60kN

SCREW PILE DETAIL
1:20

HYDROSTATIC
VALVE DETAIL
1:20

SUSPENDED POOL PLANS

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

SECTION
1:50

$$\frac{3}{-}$$

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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REV	DATE	DESCRIPTION	BY	DWG/CONTRACT No	
A	12.10.20	INITIAL ISSUE	TMJ	20S4548	
B	16.10.20	MINOR RELOCATION			
				SHEET	REV
				1	B

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A	12.10.20	INITIAL ISSUE	TMJ	20S4548	
B	16.10.20	MINOR RELOCATION			
				SHEET	REV
				1	B