

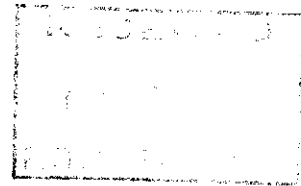
Sunrise Pools Australia

5/8 Victoria Avenue,
Castle Hill, Sydney
NSW 2154
Phone: (02) 9680 2574
Fax: (02) 9899 4450
ABN 45 111 594 024
Lic no. 174740C



08 November 2005

Pittwater Council
Attention: Carl Georgeson
PO Box 882
MONA VALE NSW 1660



RE: CC 0539/05- 277 Lower Plateau Rd, Bilgola Plateau

Dear Carl,

I respond to your letter dated 11th October 2005 regarding the CC for the proposed new swimming pool at the above address. Your letter raises three points.

- Provision of a Form No. 2
This form is attached (5 copies)
- Plan showing details of swimming pool fence and security devices to windows and doors of residence.
Amended site plan (SRP0506-1a) is enclosed (5 copies)
- Provision of structural details of piers.
Structural engineers plans are attached (SUN0530/1) showing specifications of piers at deep end of pool.

I trust that this now provides you with everything you need to assess the application, please contact me if you require any further details.

Kind Regards ☺

KELLY ROBINSON
Sunrise Pools Aust. Pty Ltd.

GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER
FORM NO. 2 – To be submitted with detailed design for construction certificate

Development Application for _____

Name of Applicant _____

Address of site

277 Lower Plateau Rd, Bilgola Plateau

Declaration made by Structural or Civil Engineer in relation to the incorporation of the Geotechnical issues into the project design

I, Brad Fong on behalf of Geoff Ninnce Fong & Ptnrs
 (Insert name) (trading or company name)

on this the

4-11-05

(date)

I certify that I am a Structural or Civil Engineer as defined by the Geotechnical Risk Management Policy for Pittwater. I am authorised by the above organization/company to issue this document and to certify that the organization/company has a current professional indemnity policy of at least \$2million. I also certify that I have prepared the below listed structural documents in accordance with the recommendations given in the Geotechnical Report for the above development

Geotechnical Report Details:

Report Title:

Risk Management for Proposed pool at 277 Lower Plateau Rd

Report Date:

19-7-05

Author:

J. HodgsonBilgola Plateau**Structural Documents list:**SUN 0530/1, SUN 0530/2, SUN 0530/3

I am also aware that Pittwater Council relies on the processes covered by the Geotechnical Risk Management Policy, including this certification as the basis for ensuring that the geotechnical risk management aspects of the proposed development have been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure taken as at least 100 years unless otherwise stated and justified.

BRAD FONG

(name)

[Signature]

(signature)

Declaration made by Geotechnical Engineer or Engineering Geologist in relation to Structural Drawings

I prepared and/or technically verified the abovementioned Geotechnical Report as per Form 1 dated _____ and now certify that I have viewed the above listed structural documents prepared for the same development. I am satisfied that the recommendations given in the Geotechnical Report have been appropriately taken into account by the structural engineer in the preparation of these structural documents. I am aware that Pittwater Council relies on the processes covered by the Geotechnical Risk Management Policy, including this certification as the basis for ensuring that the geotechnical risk management aspects of the proposed development have been adequately addressed to achieve an "Acceptable Risk Management" level for the life of the structure taken as at least 100 years unless otherwise stated and justified in the Report and that reasonable and practical measures have been identified to remove foreseeable risk.

Signature

Name

Chartered Professional Status

Membership No.

J. Hodgson
J. HODGSON
MEMBER FIEAust
149 788



04/11 2005 16:11 FAX 02 9331 2963

Geoff Ninnas Fong

002

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 Author: J. Hodgson
Bilgola Plateau

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SUN 0530/1, SUN 0530/2, SUN 0530/3

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Membership No.

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J. HODGSON
MBASc FIEAust
149 788



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Geoff Ninnes Fong

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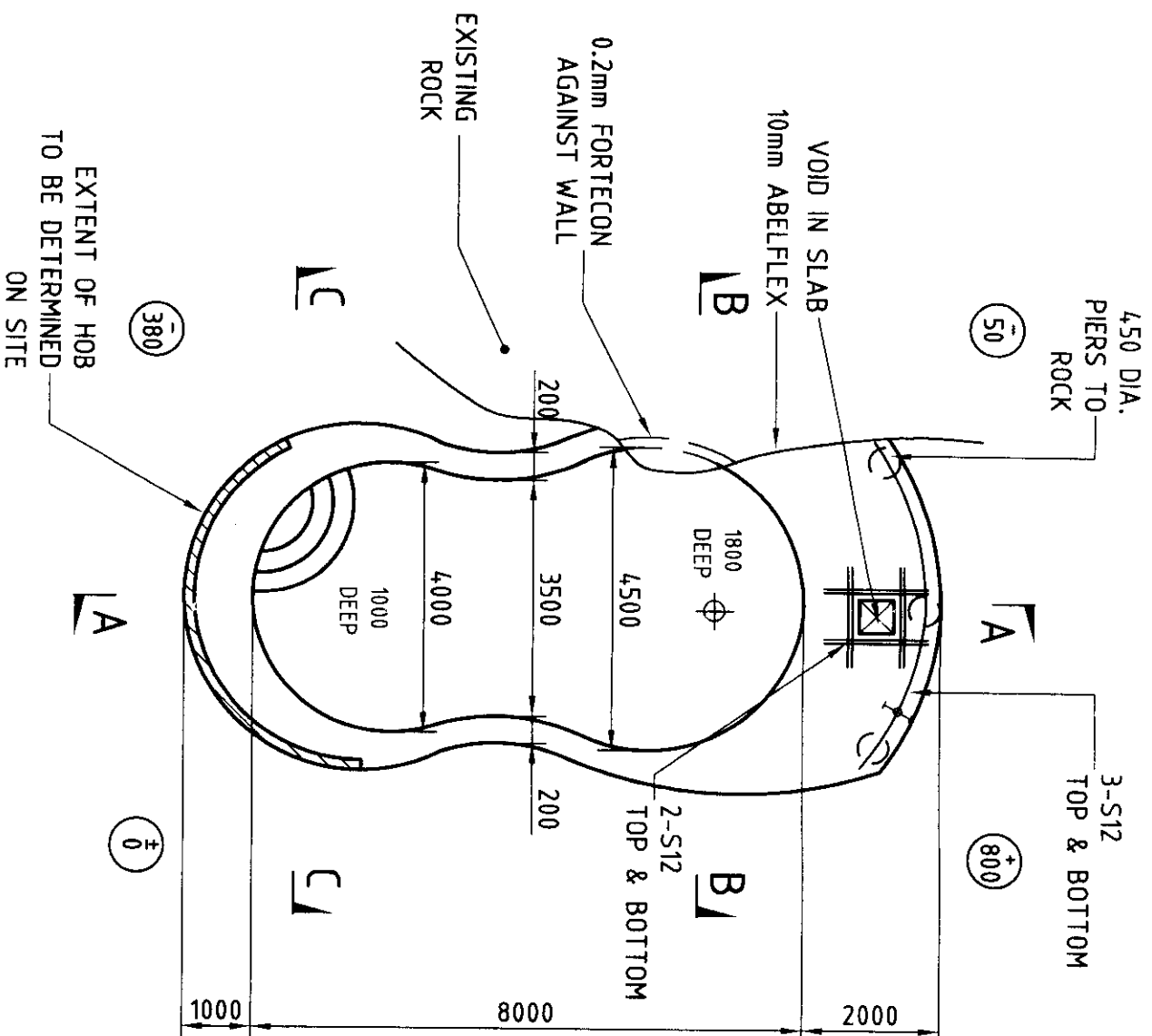
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POOL PLAN

○ DENOTES APPROX. HEIGHT OF POOL
ABOVE EXISTING GROUND LEVEL.

NOTE: THIS POOL IS NOT DESIGNED FOR DIVING

Rev No	Revision Description	By	Date	Approval

SUNGE
ACN 003 988 903
Gold Licence No. 457230

5/8 Victoria Avenue,
Castle Hill 2154
Phone: 9880 2574, 9880 2668
Fax: 98994450

PROPOSED SWIMMING POOL FOR
JOHN & CERIAN BRONDUM
277 LOWER PLATEAU RD, BILGOLA PLATEAU

Swimming Pool Consultants Trading as
Geoff Ninnies, Pty. Ltd.

ACN No. 001 849 289
Consulting Engineers
Civil, Structural, Stormwater

Level 1,
66-70 Crown Street,
Woolloomooloo, N.S.W. 2011
Phone 9331 5100 Fax 9331 2963
Email: sydney@gnp.com.au

Date **SEPT 2005** Drawing No.

Drawn **J.F.** **SUN0530/1**

Scale **1:100, 1:200**

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POOL BUILDER: GENERAL NOTES

- G1 This design applies only for ground levels as shown.
G2 All workmanship and materials shall comply with relevant current SAA codes, By-laws and ordinances of the local Building Authority.
G3 The overall dimensions shall be checked on site. Dimensions shown are concrete sizes and do not include finishes. These drawings are to be read in conjunction with the Contract but do not form part of the Contract. Do not scale from this drawing. Any discrepancies shall be notified to the Engineer.
G4 The foundation material must be stable, in natural ground, and uniform and shall have a minimum bearing capacity of 150 kPa for piers 350 kPa. Any variation in foundations from that assumed shall be immediately referred to the Engineer.
G5 Excavations shall not be permitted within 2 metres of an existing structure without prior approval or recommendations for shoring or underpinning provided by the Engineer.
G6 Walkways have been designed for a distributed load of 3KPa. Balustrade load is 30 kg/m UNO. No additional loads shall be permitted without prior approval from the Engineer. N.B. Engineer should be notified if masonry walls, planter boxes or heavy loads are to be placed on walkways.
G7 Provide temporary drain holes in both shallow and deep ends of pool shell. Hydro valve to be cleared of debris on completion of concreting.
G8 Underside of pool shell to be separated from underlying material by 75mm layer of crushed stone draining to hydrostatic valve.
Place membrane between pool shell and bluemetal.
Corrugated iron alternative on rock only. Fill main drain sump with blue metal.
G9 Notify Engineer if pool more than 900 above N.G.L.

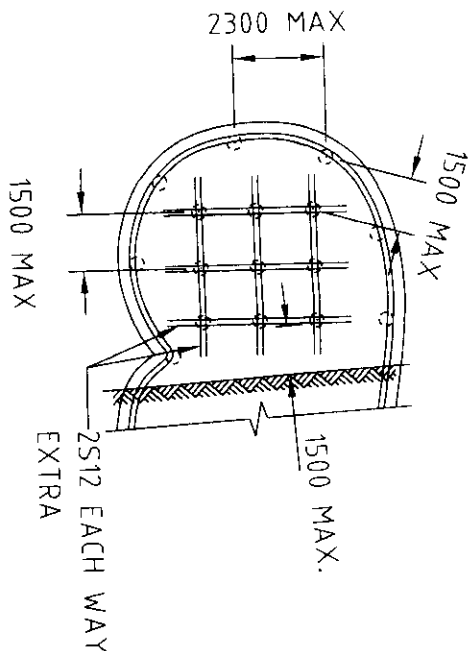
CONCRETE NOTES

- C1 The mix shall be proportioned to produce a minimum 28 day compressive strength of 25MPa when tested in accordance with AS1012 and suitable for pneumatic application. All workman-ship and materials shall be in accordance with AS2783:1994.
C2 Exclude calcium chloride. Max aggregate size 10mm. Max slump 80mm. Cement type A.
C3 Reinforcement cover - Soil Face Air Face Water Face
Walkway 65 40 60
Floor 65 50 60
Walls 65 50 60
Beams 50 50 60
Piers 65 65 65
Vibrate concrete in piers longer than 2m and all beams.
C4 Plumbing piping to be behind reinforcement and to have minimum 65 clear cover from soil or air.
C5 Reinforcement to comply with SAA Standards and be supported on non-rusting chairs at approximately 1m centres.
C6 Reinforcement to be adequately wire tied with wire ends flattened into plane of bars. Separate lap bars by 75mm.
C7 All splices to bars and fabric to be 450.
S = Grade 230 structural grade deformed
Y = Grade 410 tempcore deformed
R = Grade 230 plane grade round.
F = Grade 450 hard drawn wire fabric.
C8 Plastic chairs that restrict entry of concrete into and around them shall not be used.

POOL OWNER NOTES

- O1 If owner is dissatisfied with initial pool set out, location or depths, builder should be notified before steel reinforcement is fixed.
O2 The position of skimmers, lights, return lines etc. on this drawing is indicative only and final position of be determined on site.
O3 The pool concrete should be cured by hosing four times per day for seven days (10 days in summer) to keep exposed concrete continually wet after concrete placement.
O4 Safety fencing should be in accordance with Local Councils requirements and conform to Australian Standards.
O5 The pool is not designed for diving. Provide safety signage to SAA code and Council requirements and AS2416, AS2899.2.
O6 Notify engineer if pool to be emptied after finishing.

WIRE CHAIRS (PLASTIC TIPPED) TO BE USED IN ALL OUT OF GROUND WALLS AND COPINGS. PLASTIC CHAIRS SHALL NOT BE USED. WHERE PLASTIC CHAIRS ARE USED ELSEWHERE IN POOL PARTICULAR CARE TO BE TAKEN TO ENSURE CONCRETE IS COMPACTED AROUND AND UNDER CHAIR.

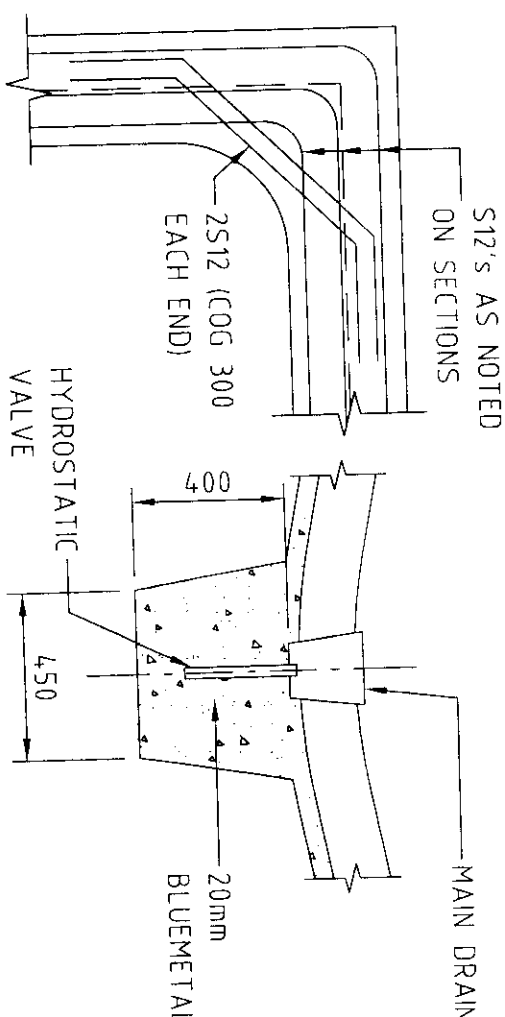


NOTE: WHERE POOL PARTIALLY ON ROCK SUSPEND THE REMAINDER OF THE POOL ON 450Ø MASS CONCRETE PIERS TO ROCKS.

PIERS UNDER WALLS @ 2300 MAX. CTRS.
PIERS UNDER FLOOR @ 1500 MAX. CTRS.
PIERS LONGER THAN 1000 TO BE REINFORCED WITH 6S12 & R10-300 TIES.

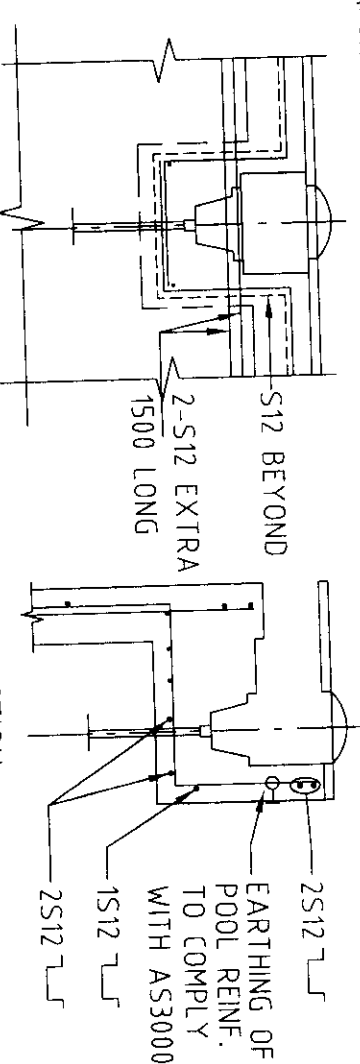
ALTERNATIVE SUPPORT DETAIL

(THIS POOL IS NOT DESIGNED FOR DIVING)



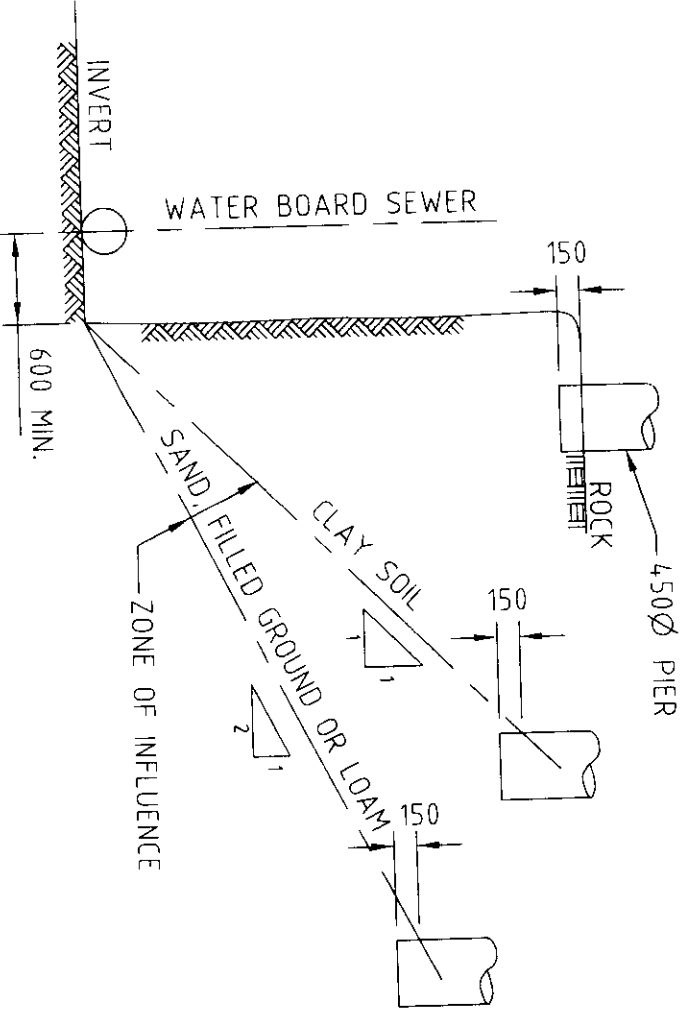
COPING CORNER DETAIL

(FOR 300mm COPINGS OR SMALLER)



ELEVATION

SKIMMER DETAIL



WATER BOARD SEWER DETAILS

INDICATIVE ONLY ENGINEER TO BE NOTIFIED IF SEWER IS ADJACENT TO OR UNDER POOL

PROPOSED SWIMMING POOL FOR JOHN & CERIAN BRONDUM 277 LOWER PLATEAU RD, BILGOLA PLATEAU

Swimming Pool Consultants Trading as Geoff Nines, Fong & Partners, Pty. Ltd.

ACN No. 001 849 289
Woolloomooloo, N.S.W. 2011
Phone 9331 5100 Fax 9331 2163
Email: sydney@gnf.com.au

Level 1, 68-70 Crown Street, Woolloomooloo, N.S.W. 2011
Phone 9331 5100 Fax 9331 2163
Email: sydney@gnf.com.au

Engineer: [Signature] Date: SEPT 2005 Drawing No: SUN0530/3

Scale: 1:50 1:20

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Phone: 9680 2574, 9680 2668
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ACN 003 089 903
Gold Licence No. 46723C