

Peter J Boyce & Associates

Level 2, 41 Rawson St Epping NSW 2121

Planning NSW Accreditation BPB 0043

Ph: 9868 2855

Email: info@boycecorp.com.au

Fax: 9868 2655

Your ref N0134/11/S96/1

18 July 2013

The General Manager
Pittwater Council
PO Box 882
Mona Vale NSW 1660

Dear Sir/Madam

Copy of Construction Certificate - 4 Kalinya Street, Newport

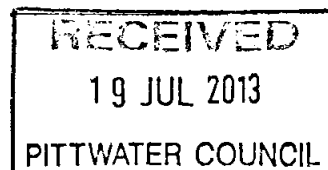
Please find enclosed copy of Construction Certificate issued for the above property under N0134/11/S96/1.

A cheque for \$36.00 for registration of the Construction Certificate is attached herewith.

Yours faithfully



Peter Boyce



\$36 REC: 343612 19/7/13.

Peter J Boyce & Associates

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18 July 2013

The General Manager
Pittwater Council
PO Box 882
Mona Vale NSW 1660

Dear Sir/Madam

Submission of Construction Certificate (Balance) - 4 Kalinya Street, Newport

Please find enclosed:

1. Letter & cheque for registration of CC
2. Completed Application Form
3. Construction Certificate (Balance)
4. Council / Long Service Levy Corp receipts etc as required by DA conditions
5. Statement from Applicant that the CC plans are generally in accordance with the DA.
6. Notice of Commencement
7. Footing Certification Certificate
8. Architectural plans
9. Structural Engineers plans
10. Fire Safety Schedule

Should any of the above documents not be received please advise me immediately.

Many thanks.



Peter Boyce

Application for Construction Certificate

Issued under the Environmental Planning and Assessment Act 1979 Part 3 - Schedule 1

Local Council Area
City, Council or Shire

PITWATER COUNCIL

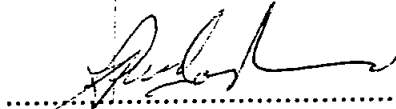
Owner
Name
Address
Phone

ROSELL MARINE GROUP P/L
4 KALINYA ST. NEWPORT. NSW 2106
(02) 9997-1674

Consent of all owner(s)

I/we consent to this application

Signature



Subject Land with lot & deposited plan number LOT 315 DP 822344
Address 4 KALINYA ST. NEWPORT. NSW 2106

Brief description of development
Type of Development
i.e. Dwelling, Addition

ALTERATION + ADDITIONS TO
MARINA BUILDING + FLOATING MARINA
(FLOATING MARINA ONLY)

Building code of Australia
Building Classification.

Class 106

Development Consent
Development consent number:
Date of Determination:

134/11
17/8/11

Builder/~~Owner~~ Builder
Name or Permit number
Address

PROVENT PROJECTS P/L
8792A MONA VALE ROAD
WARRIEWOOD NSW 2102

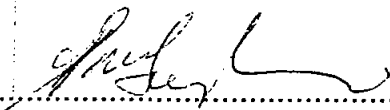
Value of Work

\$ 350,000 - 00

Required attachments --- Copy of D/A approval with Conditions
Four copies of the plans & Specification.
Plan Nos.
List of supporting documents

Schedule --- The building schedule must be completed as part of this
application for the Australian Bureau of Statistics

Owner Signature


.....

Australian Bureau of Statistics

Particulars of Proposal ---What is the area of land (m²)
 Gross Floor area of existing building (m²).....
 building(s)/land What are the current use of all or part of the
 (If vacant state vacant)

Location Use

Does the site contain a dual occupancy?.....*No*.....
 What is the gross floor area of the proposal (m²).....*50.46*.....
 What are the proposed uses of the building?

Location Use

How many stories will the building consist of?*2*.....

Materials to be used

Place a tick in the box which best describes the material

Walls	code		Roof	code	
Brick veneer	12	<input type="checkbox"/>	Aluminium	70	<input type="checkbox"/>
full brick	11	<input type="checkbox"/>	concrete	20	<input type="checkbox"/>
single brick	11	<input type="checkbox"/>	concrete tiles	10	<input type="checkbox"/>
concrete block	11	<input type="checkbox"/>	fibrous cement	30	<input type="checkbox"/>
			fibreglass	80	<input type="checkbox"/>
concrete/masonry	20	<input type="checkbox"/>	masonry/terracotta shingle		
concrete	20	<input type="checkbox"/>	tiles	10	<input type="checkbox"/>
steel	60	<input checked="" type="checkbox"/>	slate	20	<input type="checkbox"/>
fibrous cement	30	<input checked="" type="checkbox"/>	steel	60	<input checked="" type="checkbox"/>
hardiplank	30	<input type="checkbox"/>	terracotta tile	10	<input type="checkbox"/>
timber/weatherboard	40	<input type="checkbox"/>	other	80	<input type="checkbox"/>
cladding aluminium	70	<input type="checkbox"/>	unknown	90	<input type="checkbox"/>
curtain glass	50	<input checked="" type="checkbox"/>			
other	80	<input type="checkbox"/>			
unknown	90	<input type="checkbox"/>			
Floor			Frame		
concrete	20	<input type="checkbox"/>	timber	40	<input type="checkbox"/>
timber	10	<input type="checkbox"/>	steel	60	<input checked="" type="checkbox"/>
other	80	<input checked="" type="checkbox"/>	other	80	<input type="checkbox"/>
unknown	90	<input type="checkbox"/>	unknown	90	<input type="checkbox"/>

Peter J Boyce & Associates

BPB Accredited Certifier No: BPB0043
Level 2, 41 Rawson Street Epping NSW 2121
Email: info@boycecorp.com.au

Ph: 9868 2855

Fax: 9868 2655

Balance Construction Certificate Alterations & Additions to Marina Building Certificate No. BP13110

SECTION A. The Application

1. Details of the applicant

Mr Ms Mrs Dr Other:

First name

Rowell Marine Group Pty Ltd

Family name

Unit/Street no.

4

Street name

Kalinya Street

Suburb or town

Newport

State

NSW

Postcode

2106

2. Details of the property

Unit/Street no.

4

Street name

Kalinya Street

Suburb or town

Newport

Postcode

2106

Lot no.

Lot 315

Section

DP / SP no.

DP 822344

Volume/folio

2. Description of the proposed development

Alteration & Additions to Marina Building & Floating Marina

4. Development consent

Date of development consent

17 August 2011 (DA), 14 June 2012 (S96)

Development consent reference no.

N0134/11, N0134/11/S96/1

Name of Council

Pittwater Council

5. Date of the application for construction certificate

5 April 2013

SECTION B. Certifying authority

Name

Peter Boyce

Accreditation no.

BPB0043

Address

PO Box 375

Strathfield NSW 2135

SECTION C. Class of buildingClass of the proposed building under the Building Code of Australia.
Note: If parts of the building will have different classes, include all classes.

5 (offices), 8 (service area), 7b (Marina)

SECTION E. Attachments (Tick as appropriate)

Fire safety schedule

Fire link conversion schedule

Conditions schedule

SECTION F. Date

Date of this certificate

18 JUL 2013



Certificate No.

BP13110

SECTION G. Certification (Description of Works & Approved Plans)

I certify that work completed in accordance with the documentation accompanying the application for this certificate (with such modifications, if any, verified by me may be shown on that documentation) will comply with the requirements of the *Environmental Planning & Assessment Regulation 2000* as are referred to in s.81A(5) of the *Environmental Planning & Assessment Act 1979*.

The plans listed below accompanied the application for this certificate.

Note: The certificate is to be endorsed upon all relevant plans and specifications. Include the name of the certifying authority, the certificate No. and the date of the certificate

Description of Works: Alteration & Additions to Marina Building & Floating Marina

Plans

De Soyres Malone Architects: Drawing Nos: CC-11, CC-12, CC-13, CC-21.

Ardill Payne & Partners: Job No: 7369, Drawing nos: N1, S1 to S3.

Jack Hodgson Consultants Pty Ltd: Job Nos: 27867-S1 to S5.

Insight Building Certifiers Pty Ltd: Fire Safety Assessment & Schedule by dated 05 Dec 2011.

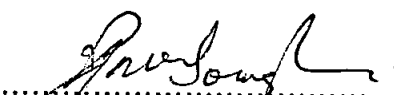
SECTION H. Signature*

* Must only be signed by the certifying authority

TO WHOM IT MAY CONCERN

RE: 4 KALINYA ST. NEWPORT 2106
ROUELL MARINE.

I hereby certify that the Architectural Plans submitted with the Construction Certificate application are generally in accordance with the Development Approved plans approved by Council.


.....
Signature

Pittwater Council

OFFICIAL RECEIPT

15/08/2012 Receipt No: 028008

To: ROBERT DUNNIN GROUP

OL - GRAY MIDDONOR
PO BOX 1007
WARRIOR HILL 2106

Account Reference	Amount
OL - GRAY MIDDONOR	21,237.25
PO BOX 1007	
WARRIOR HILL 2106	
OL - GRAY MIDDONOR	21,237.25
PO BOX 1007	
WARRIOR HILL 2106	

Receipt:	
Amount Tendered	21,237.25
Cash	50.00
Change	50.00
D/C Card	21,237.25
Cash Refund	50.00
Agency Rec	20.00
Total	21,237.25
Accounting	50.00
Dustops	50.00
Total	21,237.25

Printed 15/08/2012 10:00:00 AM

Receipts Clerk

nab EFTPOS

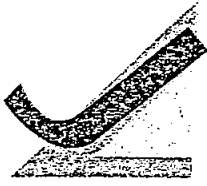
PITTWATER COUNCIL
MONA VALE

CUSTOMER COPY

Acquirer NAB
 Merchant ID 29724291
 Terminal ID F2G683
 Country Code AU
 Date/Time 15/08/12 15:28
 RRN 000347002230
 Visa Credit
 AID A0000000031010
 #####0553 (I)
 Credit A/C

APPROVED 00
 TC 10F014FFCDUCAAB8
 AUTH ID 859277
 PURCHASE \$1,237.25
 TOTAL AUD \$1,237.25

PLEASE RETAIN AS
 REF ID OF PURCHASE
 00L 588000 1E0300 F800



Jack Hodgson Consultants Pty Limited

CONSULTING CIVIL, GEOTECHNICAL AND STRUCTURAL ENGINEERS

ABN: 94 053 405 011

MM 27867.

31st January, 2012.

Page 1.

The General Manager
Pittwater Council
P O Box 882
MONA VALE NSW 1660

Dear Sir.

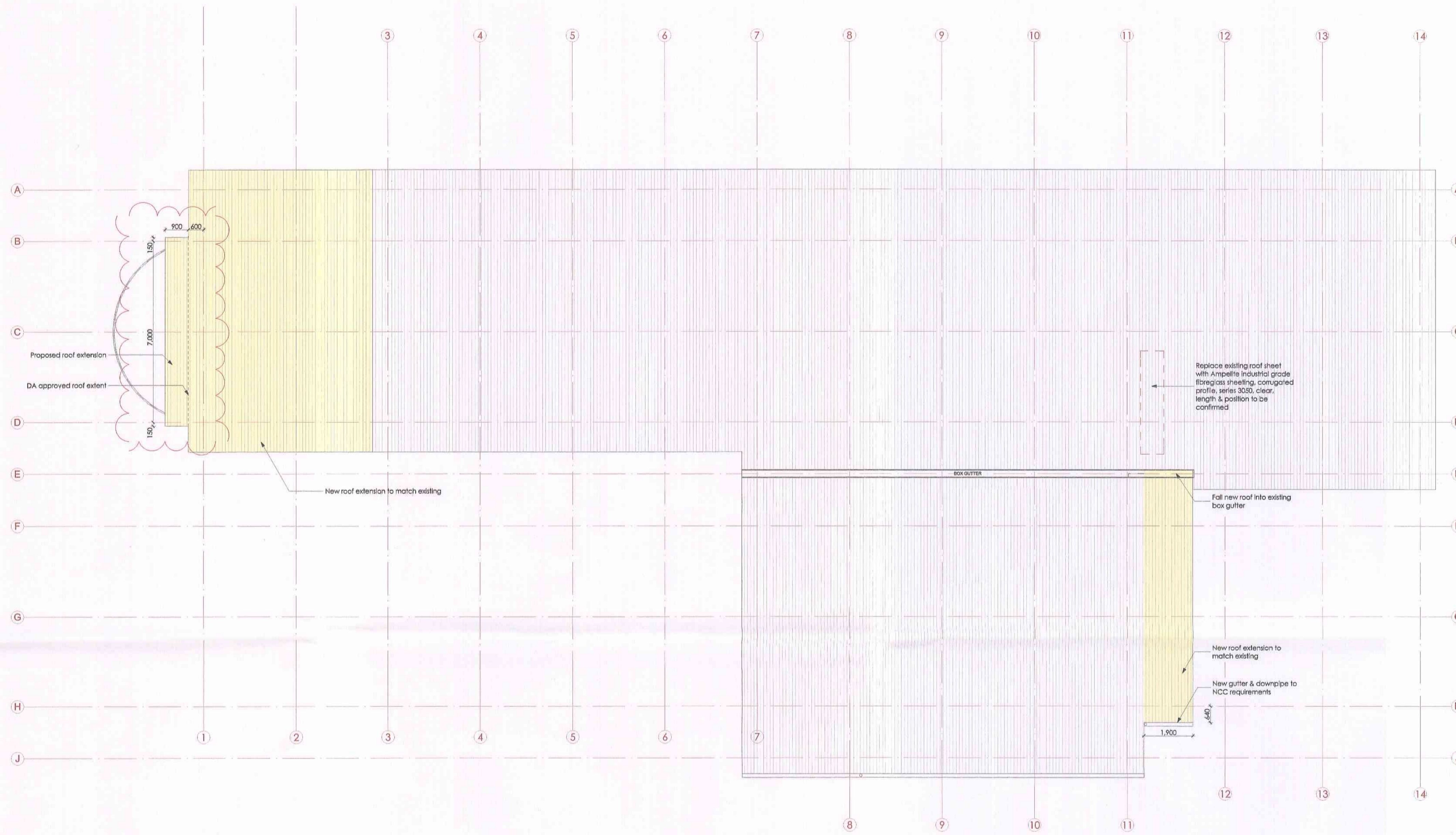
ROWELL MARINA No. 1 QUEENS PDE, NEWPORT

This report on structural adequacy is based on a surface inspection only of the above property address. No opening up of the existing development or excavation has been carried out.

At the time of our inspection we were able to examine the majority of the existing members which were likely to incur an extra load, and in our opinion, will be able to withstand the loads likely to be imposed on them from the proposed alterations and additions.

JACK HODGSON CONSULTANTS PTY. LIMITED.

**J.D. Hodgson M.Eng.Sc.,
F.I.E.Aust., CP ENG.
Civil & Structural Engineer.
Nper3, Struct. Civil. No. 149788.
Director.**



NOTES:
 1. CARBIDE BINS TO HAVE SELF CLOSING LIDS.
 2. EXTERNAL CLADDING TO HAVE 25% MAXIMUM REFLECTIVITY INDEX.
 3. ALL DEMOLITION TO BE CARRIED OUT IN ACCORDANCE WITH AS2601-2001.

1 Roof Plan
1:100

Peter J Boyce & Associates
 Ph: 0412 928 512
 This PLAN/DOCUMENT forms part
 of the approval granted under
 Construction Cert No. BP33110
 And all work must be carried out in
 accordance with the Building Code of
 Australia 2007 and all relevant standards
 Accredited Building Surveyor PCB No. 6043

REV	DATE	REVISION	BY
D	17/07/13		JMS
C	10/05/12	Issued for tender	JMS
B	10/05/12	Issued for construction certificate	JMS
A	18/11/11	Issued for information	JMS

de Soyres
 Malone
 Architects Pty Ltd

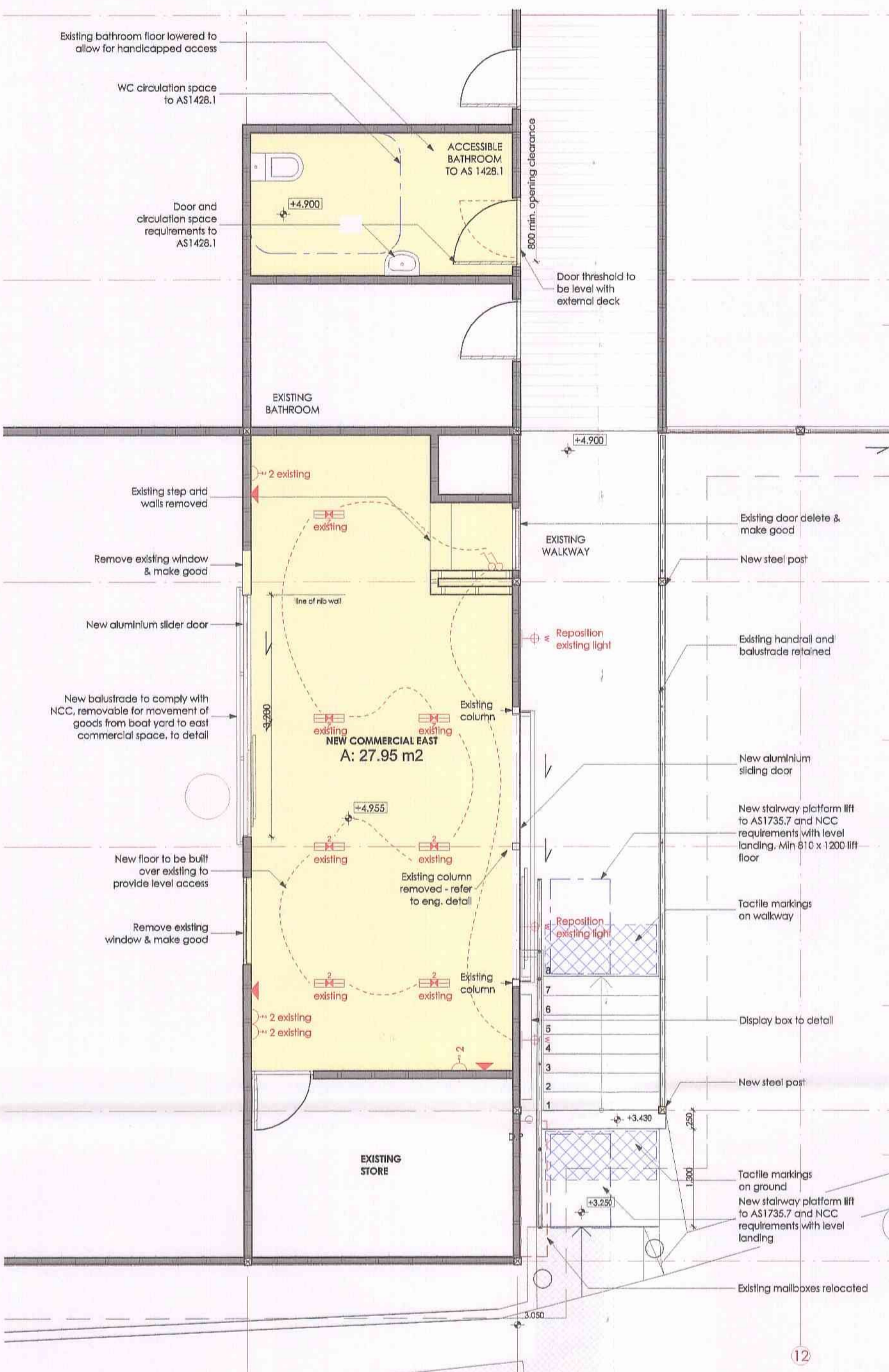
Nominated Architect: James de Soyres #4238
 PO BOX 657 NEWPORT BEACH
 NSW 2106
 5 ROWELL MARINA
 QUEEN'S PARADE WEST NEWPORT
 contact@dsamarchitects.com
 TELEPHONE: (02) 9979 1828
 FACSIMILE: (02) 9979 2263

CLIENT
 Rowell Marina
 LOCATION
 Rowell Marina, Newport
 NSW 2106
 DRAWING TITLE
 Roof Plan

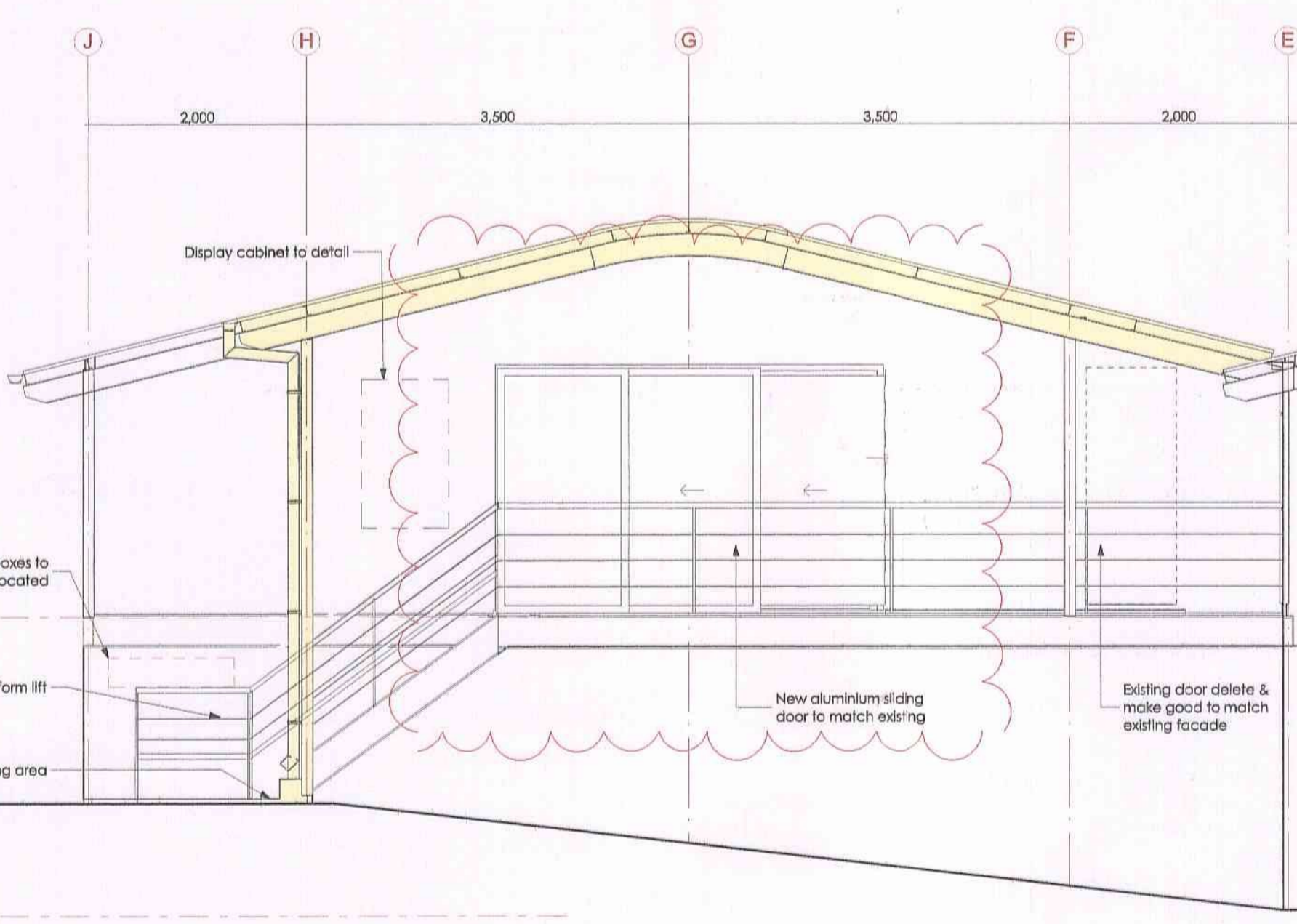
DATE OF ISSUE 10/05/2012
 Copyright of de Soyres Malone Architects Pty Ltd. This
 drawing may not be used or reproduced in any form
 without consent. Do not scale from this drawing.

Scale in metres: 1:100 of A1 original size
 0 0.5 1 1.5 2 2.5
 Scale in metres: 1:100 of A1 original size

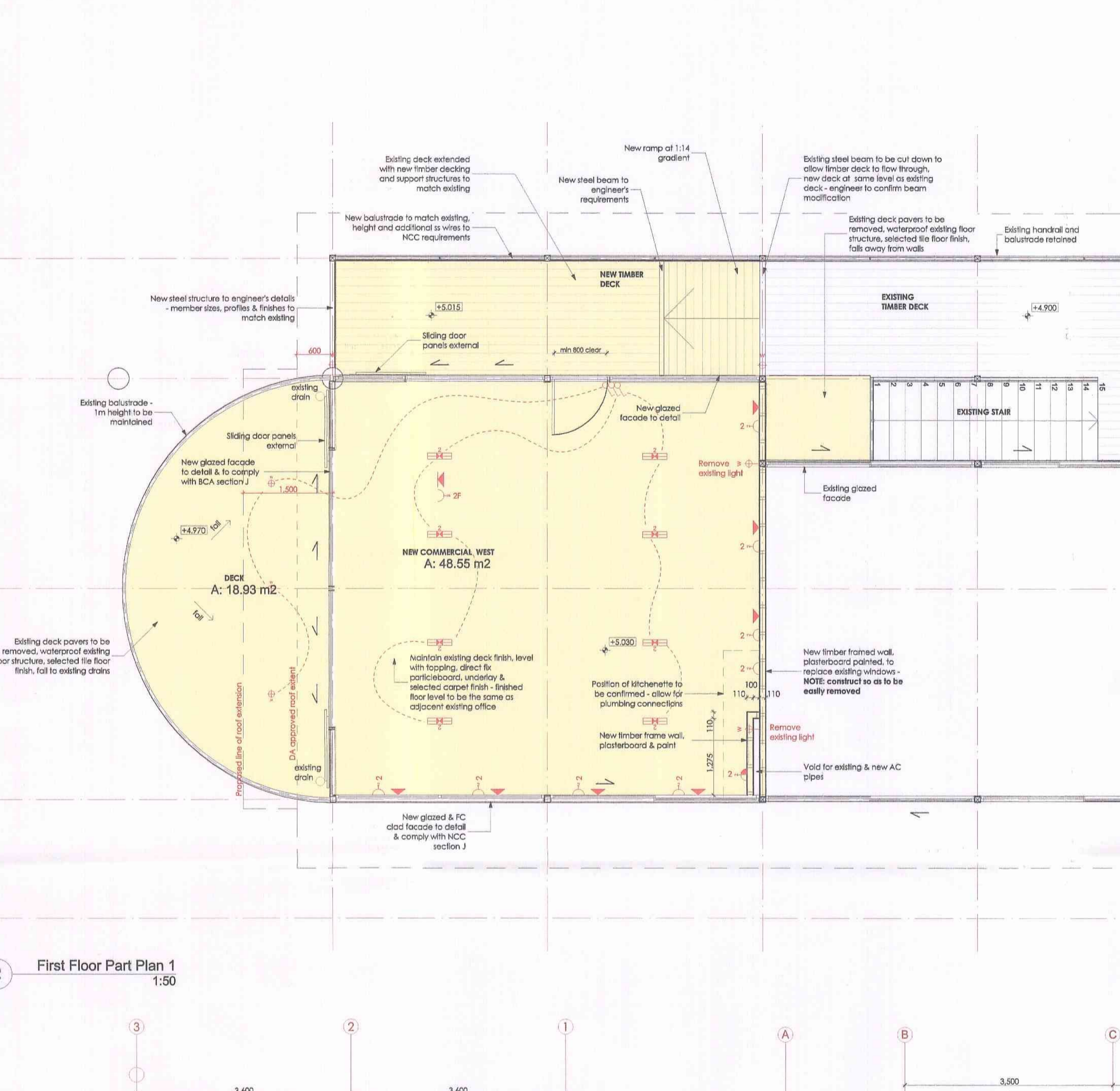
PROJECT NO: 0907 DRAWING NO: CC-12 REVISION: D



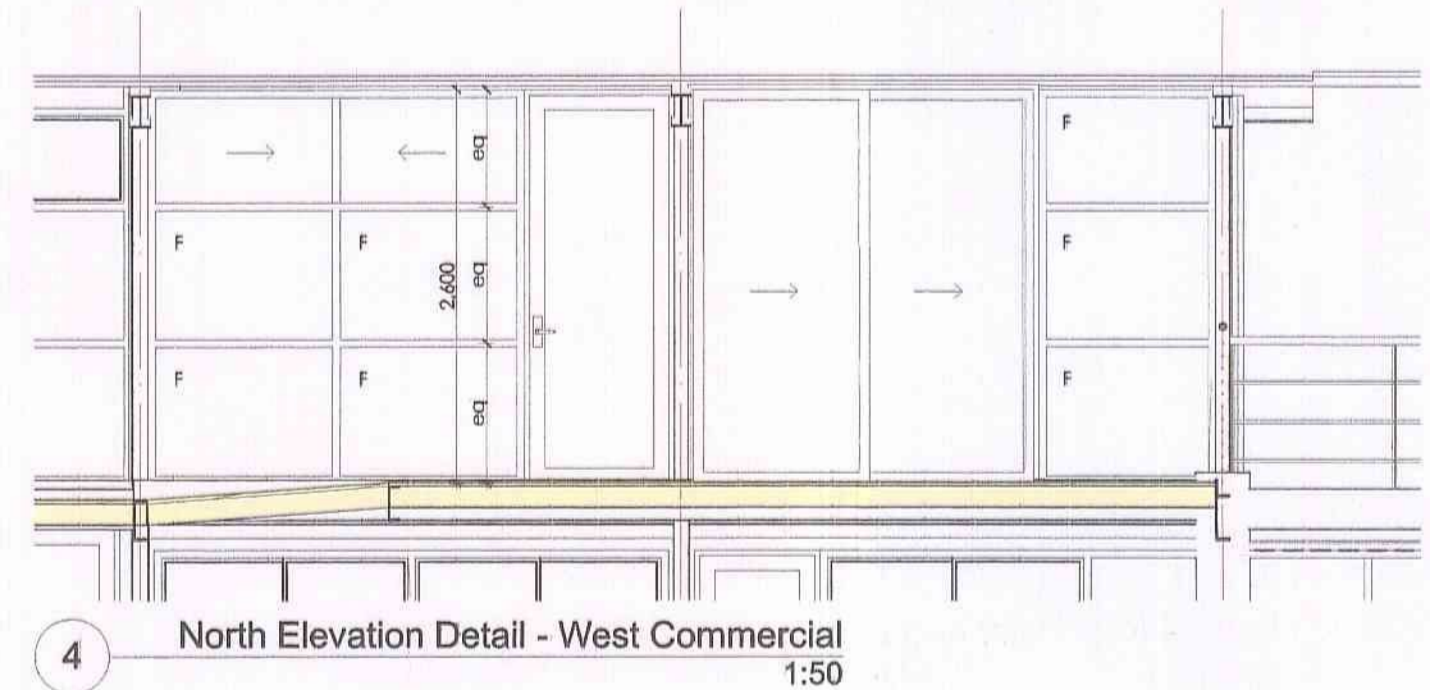
1 First Floor Part Plan 2
1:50



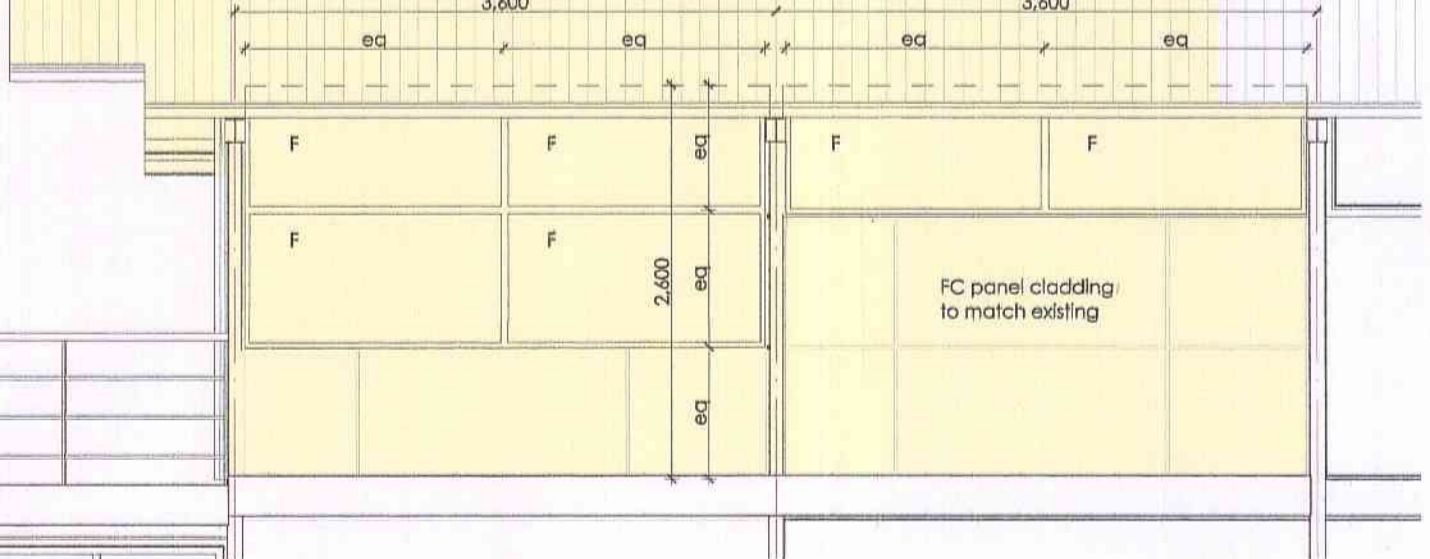
3 East Elevation Detail - East Commercial
1:50



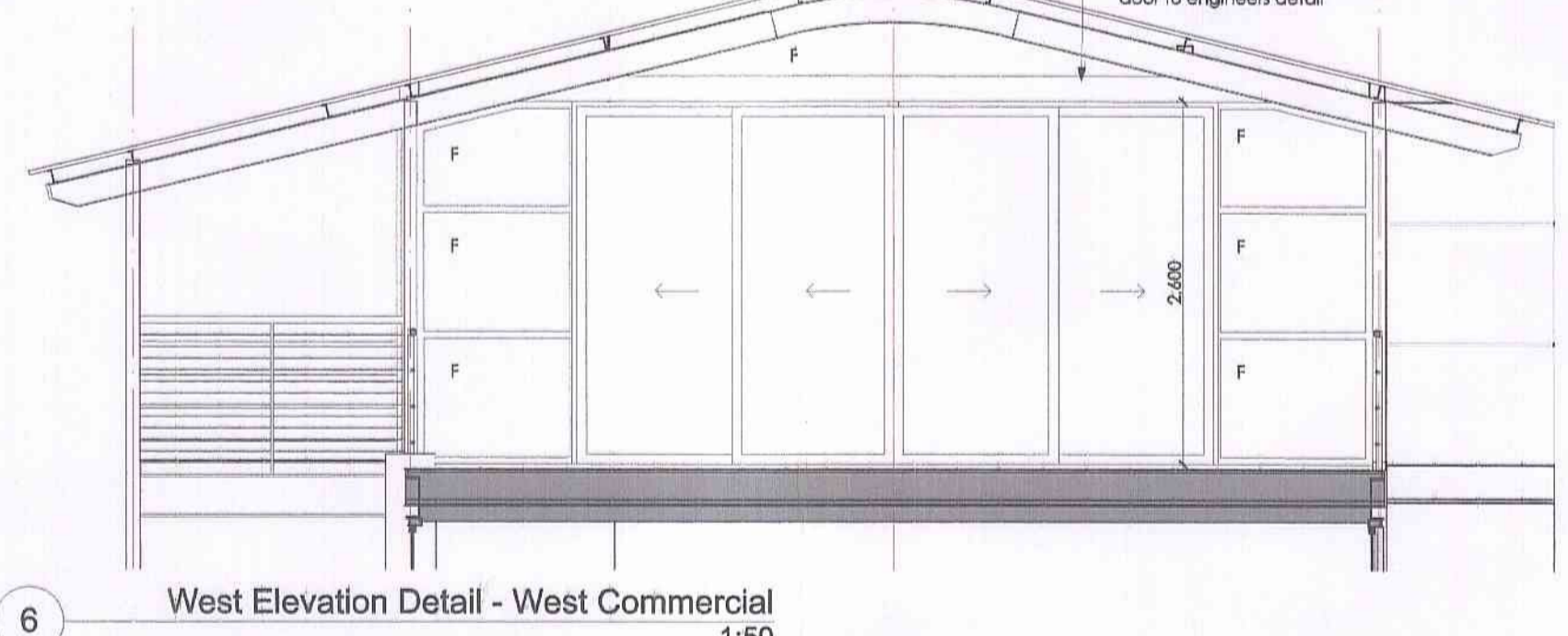
2 First Floor Part Plan 1
1:50



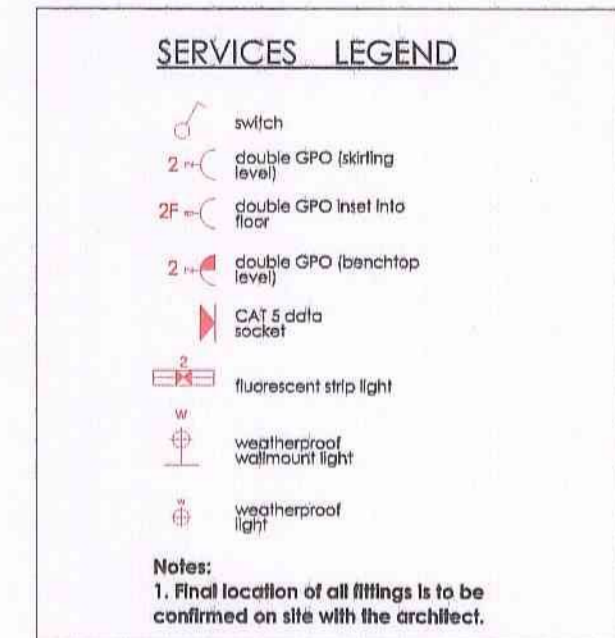
4 North Elevation Detail - West Commercial
1:50



5 South Elevation Detail - West Commercial
1:50



6 West Elevation Detail - West Commercial
1:50



DA Condition Notes:
 DA Condition 87 - all external glazing must have a maximum reflectivity index of no greater than 25%.
 DA Condition 8 - all finish surface materials colours & textures must be matching to the existing building.
 DA Condition 12 - a minimum of 600mm clearance is to be maintained between the underside of the pontoon roofs & the sub strata of all lines.

Window Door Notes:
 1. Glazing lines, door & window head & sill heights, transoms etc to match to existing glazing.
 2. New door & windows to conform with part J of the BCA - door & window fabricator to review & advise as to glazing options.
 3. West side shade structure width pending glazing option - door & window fabricator to advise as to width required as per part J of the BCA.

BCA Section J Notes:
 All new work to comply with BCA section J as per items listed below, though not limited to:
 J1 building fabric
 J1.2 - roof & ceiling - total R value required - R3.2
 - (roof structure R0.3)
 J1.5 - external wall - total R value required - R2.8
 - (wall structure R0.42)
 - thermal breakage required between external cladding & metal frame (R0.2)
 - internal wall - total R value required - R1.8
 J1.6 - floor - total R value required - R2.0
 - (concession of R0.6 if R0.75 added to roof & ceiling)
 J2.4 glazing
 - energy index - display glazing - A 0.257
 - energy index - class 4 general - A 0.176
 - window door supplier to comply with section J requirements
 J2.5 western shading - to be confirmed - pending western glazing
 J3 building sealing
 - seals required to doors & windows
 - exclusion windows complying with AS 2047
 - entrance doors - required to be self closing for areas greater than 50 sqm.
 - exhausts - sealing device required - conditioned or habitable room
 - roof, walls, floor junctions - to be sealed - caulking, skirting etc.
 J5 ac & ventilation
 J5.2 - a/c to comply with section J - various technical requirements
 - sealed ducts, deactivation switch, zone thermostats etc.
 J5.3 - liner switch to be provided to AC with more than 10 kW
 J6 artificial lighting & power
 J6.2 - lighting & power load not to exceed loads as per table J6.2a
 - office artificial lighting above 200 lx - 9
 - office artificial lighting less than 200 lx - 7
 - retail artificial lighting - 22
 J6.3 - artificial lighting & power
 - lights commercial areas east & west - individual control
 J6.4 - interior decorative lighting
 - separate from artificial lighting, manual switch, timer switch if 1kw exceeded
 - window display lights - control switch separate
 J6.5 - artificial lighting around building perimeter
 - control to be daylight sensor or timer
 - (if exceeding 100m load - additional restrictions)
 J7 hot water supply
 J7.2 - as per AS/NZS 3850.4
 J8 access for maintenance & facilities
 J8.2 - must be provided for all plant & equipment - new additional items - sensors etc.

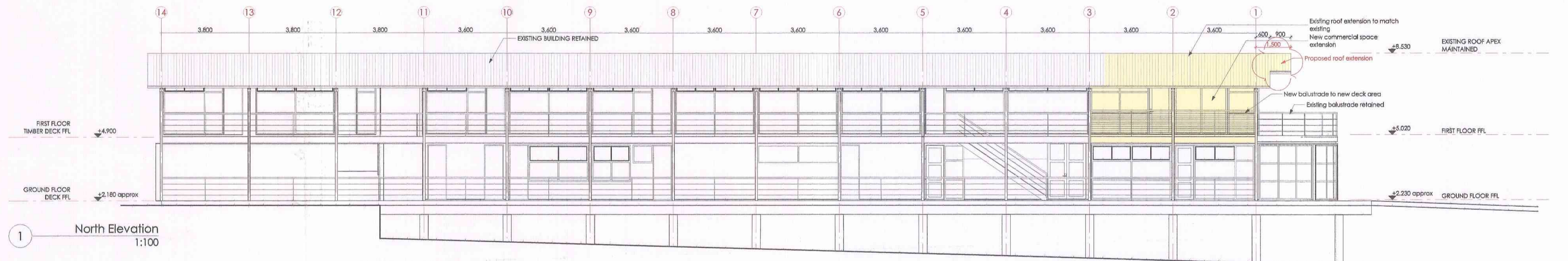
Peter J Boyce & Associates
 Pt 9412 928 912
 This PLANDOCUMENT forms part of the approved contract documents.
 Construction Contract No. 10/05/12
 And all work must be carried out in accordance with the Building Code of Australia 2007 and subsequent amendments.
 Accredited Building Surveyor (BSP)

D	17/01/13	AS1488 provisions included	JMB
C	10/06/12	Issued for tender	JMB
B	10/06/12	Issued for construction certificate	JMB
A	18/11/11	Issued for information	JMB
REV	DATE	REVISION	BY

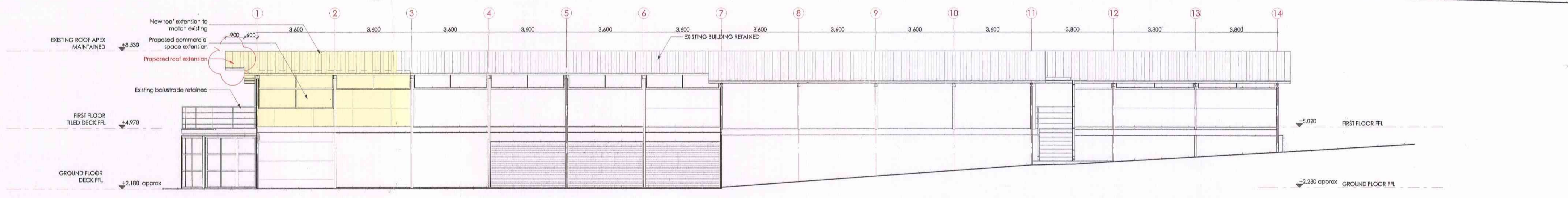
de Soyres
 Malone
 Architects Pty Ltd
 Nominated Architect: James de Soyres #6478
 PO BOX 657 NEWPORT BEACH
 NSW 2106
 5 ROWELL MARINA
 QUEEN'S PARADE WEST NEWPORT
 contact@damarchitects.com
 TELEPHONE: (02) 9979 1823
 FACSIMILE: (02) 9979 5263

CLIENT
 Rowell Marina
 LOCATION
 Rowell Marina, Newport
 NSW 2106
 DRAWING TITLE
 Part Plans & Elevations
 DATE OF ISSUE
 10/05/2012
 Copyright © de Soyres Malone Architects Pty Ltd. This drawing may not be used or reproduced in any form without consent. Do not scale from this drawing.
 Scale in metres: 1:50 of A1 original size
 Scale in metres: 1:100 of A1 original size
 PROJECT NO:
 DRAWING NO:
 REVISION:
 0907 CC-13 D

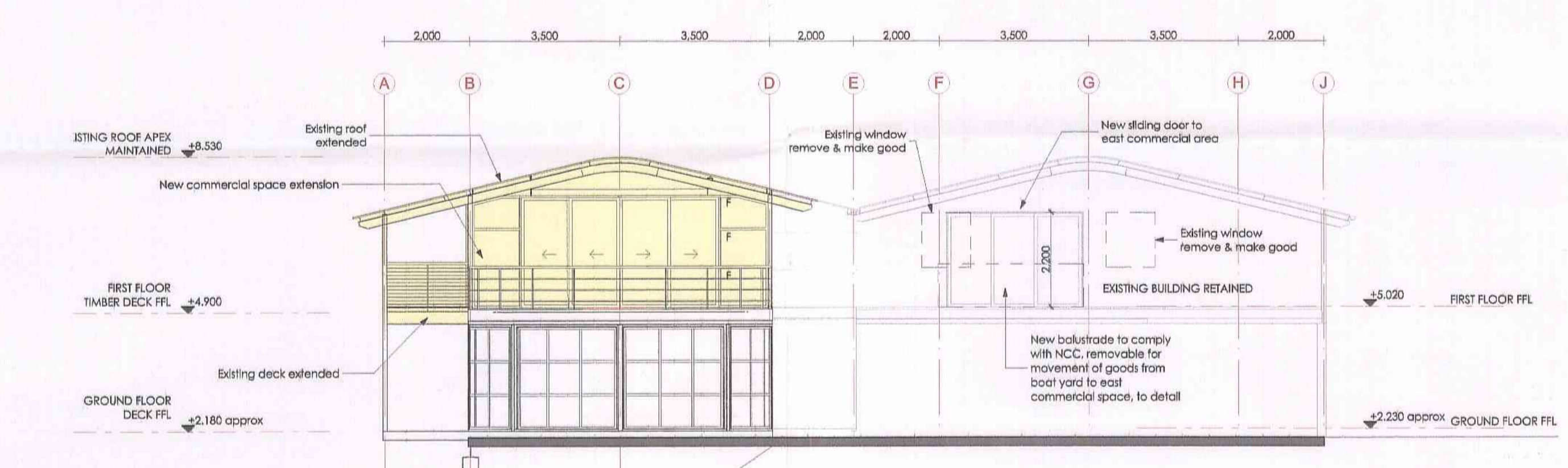
**FOR
TENDER**
NOT FOR CONSTRUCTION



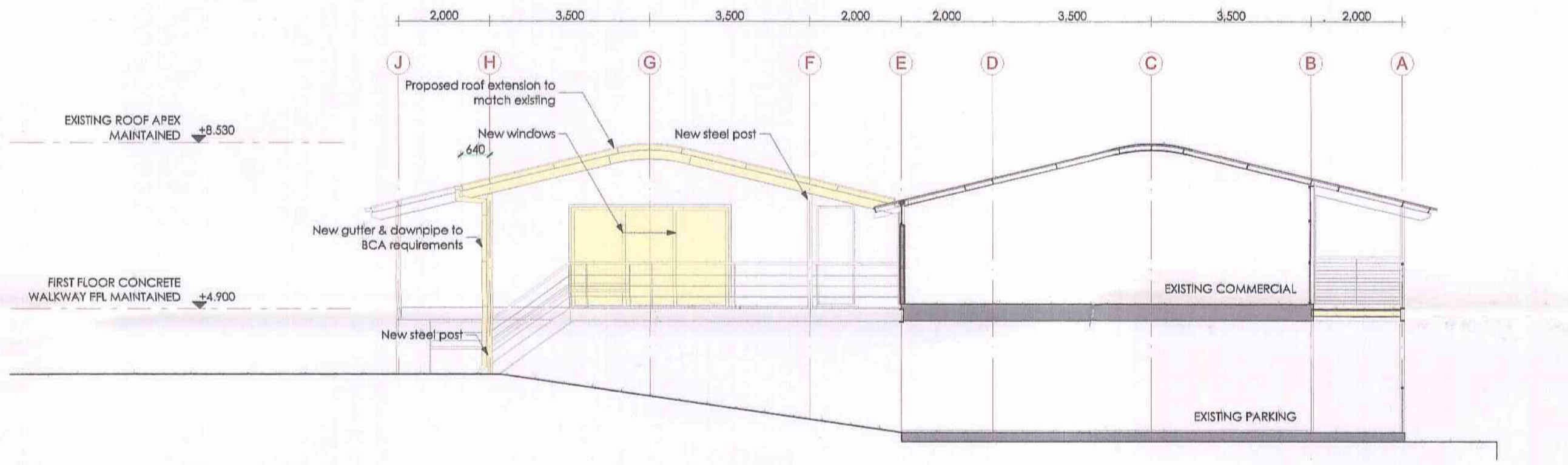
1 North Elevation
1:100



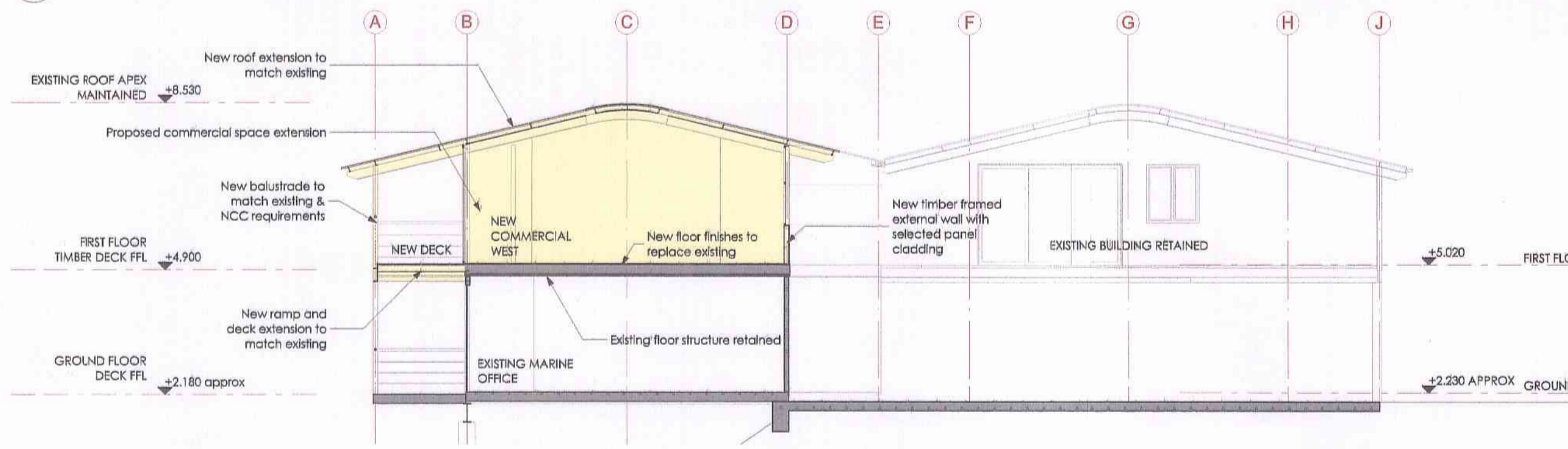
2 South Elevation
1:100



3 West Elevation
1:100



6 Section C-C
1:100



5 Section B-B
1:100

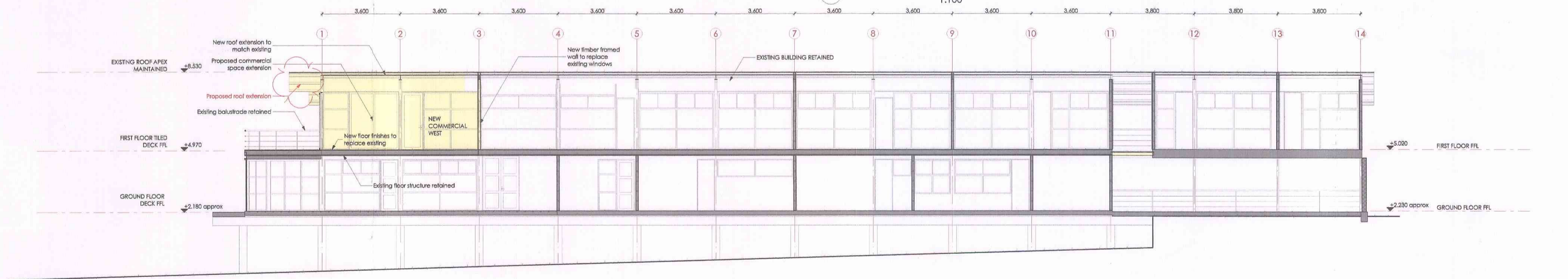
Peter J Boyce & Associates
Ph: 8412 928 212
This PLAN DOCUMENT forms part
of the approved architectural services
Construction Cert No. **BP1310**
And all work must be carried out
in accordance with the Building Code of
Australia 2007 as amended.
Accredited Building Supervisor (BSS) No. 00143

REV.	DATE	REVISION	BY
D	17/01/12	AS/NZS1 provisions included	JMS
C	10/09/12	Issued for tender	JMS
B	10/09/12	Issued for construction certificate	JMS
A	18/11/12	Issued for information	JMS

de Soysres
Malone
Architects Pty Ltd
Nominated Architect: James de Soysres B2469
PO BOX 457 NEWPORT BEACH
NSW 2106
5 ROWELL MARINA
QUEEN'S PARADE WEST NEWPORT
contact@damarchitects.com
TELEPHONE: (02) 9979 1823
FACSIMILE: (02) 9979 5243

CLIENT
Rawell Marina
LOCATION
Rawell Marina, Newport
NSW 2106
DRAWING TITLE
Sections & Elevations

DATE OF ISSUE
10/05/2012
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Scale in metres: 1:50 of A1 original size
0 1 2 3 4 5
Scale in metres: 1:100 of A1 original size
0 1 2 3 4 5
PROJECT No: 0907 DRAWING No: CC-21 REVISION: D



4 Section A-A
1:100

GENERAL

1. These drawings shall be read in conjunction with design brief for the Heron Cove Marina Pontoon, other consultant's drawings, specifications and instructions as may be issued during the course of the contract. Any discrepancy shall be referred to the Engineer before proceeding with the job.
2. All materials and workmanship shall be in accordance with the relevant and current S.A.A. codes and with the B-1-ans and ordinances of the relevant building authorities except where overridden by the project specifications.
3. All dimensions shown shall be verified by the Contractor. Engineer's drawings shall not be scaled for dimensions.
4. During construction the structure shall be maintained in a good condition and no part shall be overstressed. Temporary bracing shall be provided by the Contractor to keep the works and pontoons stable at all times.
5. Unless noted otherwise, all levels are in metres and all dimensions are in millimetres.
6. The design and details shown on these drawings are applicable to the project only and may not be reproduced in whole or in part or be used for any other project or purpose without the written permission of Ardill Payne & Partners with whom the copyright resides.
7. The structural components detailed on these drawings have been designed in accordance with the relevant S.A.A. codes for the following loads.

LIVE LOADS

Description	Live Load
Marina Floation Check	2.0 kPa
Marina Strength Check	3.0 kPa
Pontoon Design Vessel	15 Tonnes
Pontoon Marina Berthing Vel	0.30 m/s

WIND LOADS AND WAVE HEIGHTS

DESIGN WAVE HEIGHTS	
Wave Load on Pontoons	2.0 kN/m
WIND SPEEDS AND DRAG	
30 Second Gust Velocity	36 m/s
Boat Drag Coefficients	13 - 15

CONCRETE NOTES

1. All workmanship and materials shall be in accordance with AS 3600 Concrete Structures Code.
2. Concrete Quality:
The Characteristic Compression Strength and slump of the concrete must not be less than the values noted below:

Element	F _c MPa (28 Days)	Slump (mm)	Aggregate Size (mm)
Pontoons	S40	80	10

Project control testing shall be carried out in accordance with AS 3600.

3. Class 5 concrete shall consist of fibre reinforced concrete with superplasticizer at 20 litres / cu m. Fibre reinforcement to consist of Masterblender's HBT polypropylene fibres.
4. All reinforcement shall be hot dip galvanised to AS 1657 and shall be fully supported from the Polystyrene formers and supported on plastic chairs or concrete chairs at no greater than 600mm centres both ways. Reinforcing to be generally placed centrally to all sections.
5. Concrete sizes shown do not include thickness of applied finishes.
6. No holes, joints or embedment of pipes other than those shown on the structural drawings shall be made in concrete members without the prior written approval of the Engineer.
7. No other admixtures shall be used in concrete unless approved in writing.
8. The finished concrete shall be a dense homogeneous mass completely filling the formwork, thoroughly embedding the reinforcement and free of all air pockets. All concrete shall be compacted with mechanical vibrators.
9. Curing of all concrete is to be achieved by keeping structures continuously wet for a period of three days, and prevention of loss of moisture for a total of seven days followed by a gradual drying cure. Approved sprayed-on curing compounds or polythene sheeting may be used. The Engineer shall be given 24 hour notice for reinforcement inspection if required and concrete shall not be delivered until final approval is obtained. Conduits, pipes etc. shall only be located in the middle one third of slab depth and spaced at not less than 3 diameters.

STRUCTURAL STEEL NOTES

1. All workmanship and materials shall be in accordance with AS 1100 and AS 954 except where varied by contract documents.
2. Unless noted otherwise, all steel shall be in accordance with AS 3679 Grade 300.
3. Bolt Designation:
Commercial bolts of grade 4.6 to AS 1118 using high end.
High strength structural bolts of grade 8.8 to AS 1252 using high end.
High strength structural bolts of grade 8.8 to AS 1252 (only remanded to AS 954 as a bearing joint).
8.8/7F High strength structural bolts of grade 8.8 to AS 1252 fully remanded to AS 954 as a friction joint with facing surfaces left uncoated.
4. Unless noted otherwise, all bolts shall be grade 8.8/5 except through bolts which may be grade 4.6/5.
5. No connection shall have less than 2M16 bolts.
6. All bolts, nuts and washers to be hot dipped galvanised or grade 316 stainless steel as noted.
7. Unless noted, all welds shall be 6mm continuous fillet welds class SP using E41XX electrodes. Bolt welds shall be complete penetration butt welds to AS 954.
8. Unless noted, all cleat plates to be 8mm.
9. Provide end plates to all hollow sections, with drain holes in members to be hot dipped galvanised.
10. All steelwork to be stored with temporary bracing as necessary to stabilise the structure during erection.
11. The bolder shall provide all clays, filings and welding necessary for fixing steel to steel and timber to steel if not defined on the drawings.
12. Structural steelwork shall have the following surface treatment unless otherwise specified.

Element	Surface Cleaning	Treatment
ALL	ABRASIVE BLAST CLEAN to class 2.5 surface (AS 4672.4)	Hot Dip Galvanised (A57183 2371)

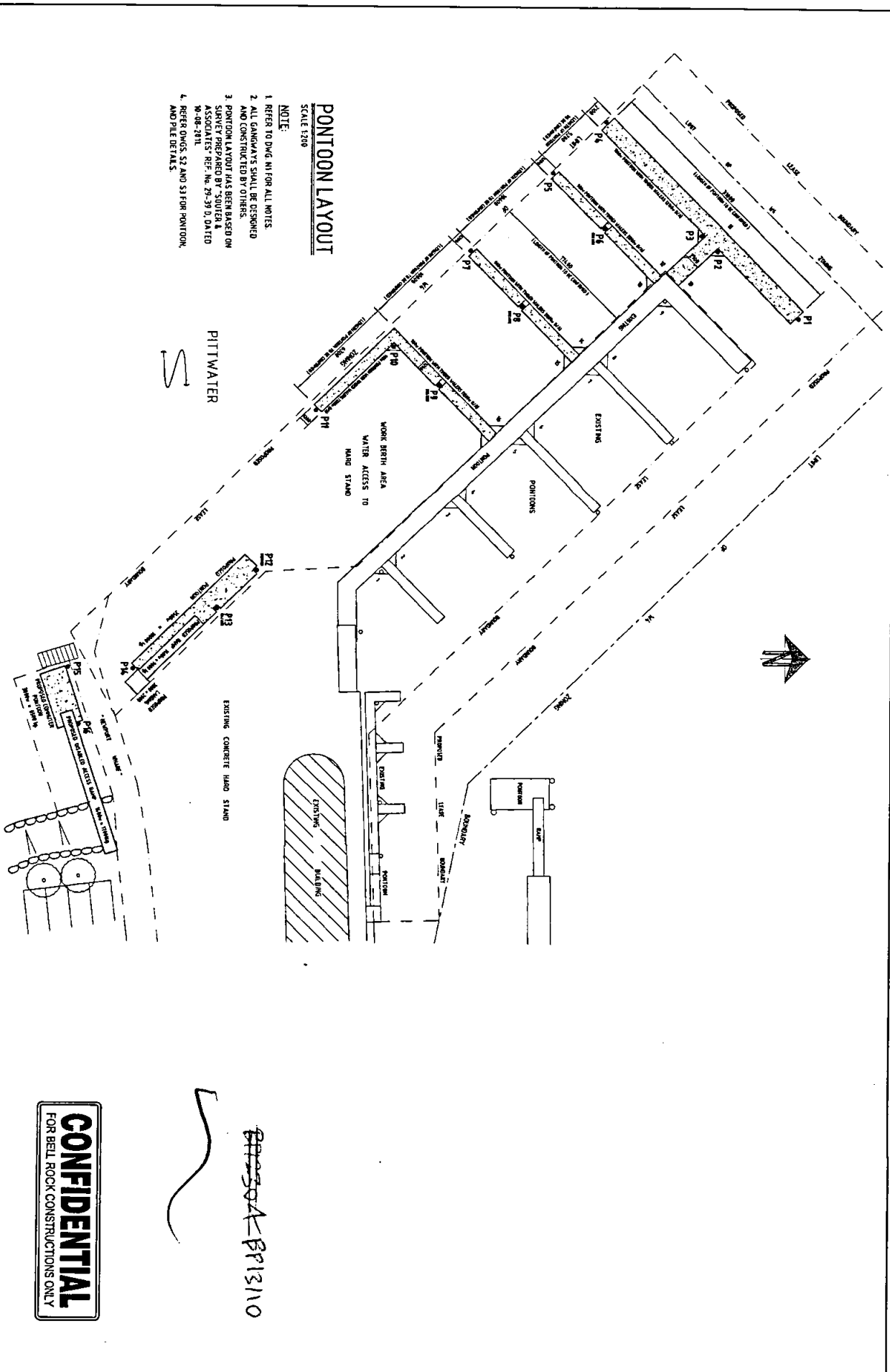
PILES AND FOUNDATIONS

1. All pile fabrication, installation and materials shall be in accordance with AS 2155. The Piling Code.
 2. Piles are to be driven or drilled at least three metres into medium dense sand. To be confirmed on site.
 3. Piles P1 to P11 to be steel piles slotted with a high density polyethylene (HDPE) sheath (beam thick), embedded 500mm into the seabed and the annulus grouted with an approved cementitious grout. Piles P12 to P16 are re-used timber marine piles (CCA/PEC treated).
- TIMBER NOTES**
1. All timber design, construction and material to be in accordance with AS 1720.1 and AS 1720.2 UNDO. Hardwood to be minimum grade F22.
 2. External timber to be either hardwood durability class I or class II as per AS 1720.2.
 3. All bolts in timber construction to be minimum M16 UNDO. Bolt holes to be drilled exact size. Washers under heads and nuts to be at least 2.5 times bolt diameter.
 4. Timber dimensions on the finished width and thickness to be: Seasoned Hardwood +2, -0mm Unseasoned Hardwood +3, -3mm (See also clause 16.2 in AS 2082)
 5. All timber joints and notches are to be 100mm minimum away from loose knots, severe sloping grain, gum veins or other minor defects.

BR1310

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FOR BELL ROCK CONSTRUCTIONS ONLY

<p>7-14-12</p> <p>DATE OF ISSUE</p> <p>2012</p> <p>APR 23</p>	<p>Client:</p> <p>BELL ROCK CONSTRUCTIONS</p> <p>MOBILE 0414 971 145</p>	<p>Project:</p> <p>PROPOSED MARINA EXTENSION</p> <p>AT: HERON COVE MARINA, QUEENS PARADE (WEST) NEWPORT, PITTMATER.</p>	<p>Title:</p> <p>GENERAL NOTES</p>	<p>Prepared by:</p> <p>ARDILL PAYNE & PARTNERS</p> <p>CONSULTING CIVIL AND STRUCTURAL ENGINEERS</p> <p>PROJECT MANAGERS TOWN PLANNERS AND SURVEYORS</p> <p>177 Towner Road Newport NSW 2109 A.S.N. 61 508 8877</p> <p>1 Telephone: 02 9686 2400 2 Fax: 02 9686 2400 3 Email: info@ardillpayne.com.au 4 Website: www.ardillpayne.com.au</p>	<p>Checked:</p> <p>HAY 212</p> <p>Approved:</p> <p>APR</p> <p>7369</p> <p>7369</p>	<p>Scale:</p> <p>AS 1118</p> <p>3000</p> <p>NI</p>
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PONTON LAYOUT

SCALE 1:200

- NOTE:**
1. REFER TO DWG IN FOR ALL NOTES
 2. ALL GANGWAYS SHALL BE DESIGNED AND CONSTRUCTED BY OTHERS.
 3. PONTON LAYOUT HAS BEEN BASED ON SURVEY PREPARED BY SCORER ASSOCIATES' REF. No. 29-39 D, DATED 16-08-2011.
 4. REFER DWGS S2 AND S3 FOR PONTON, AND PILE DETAILS.

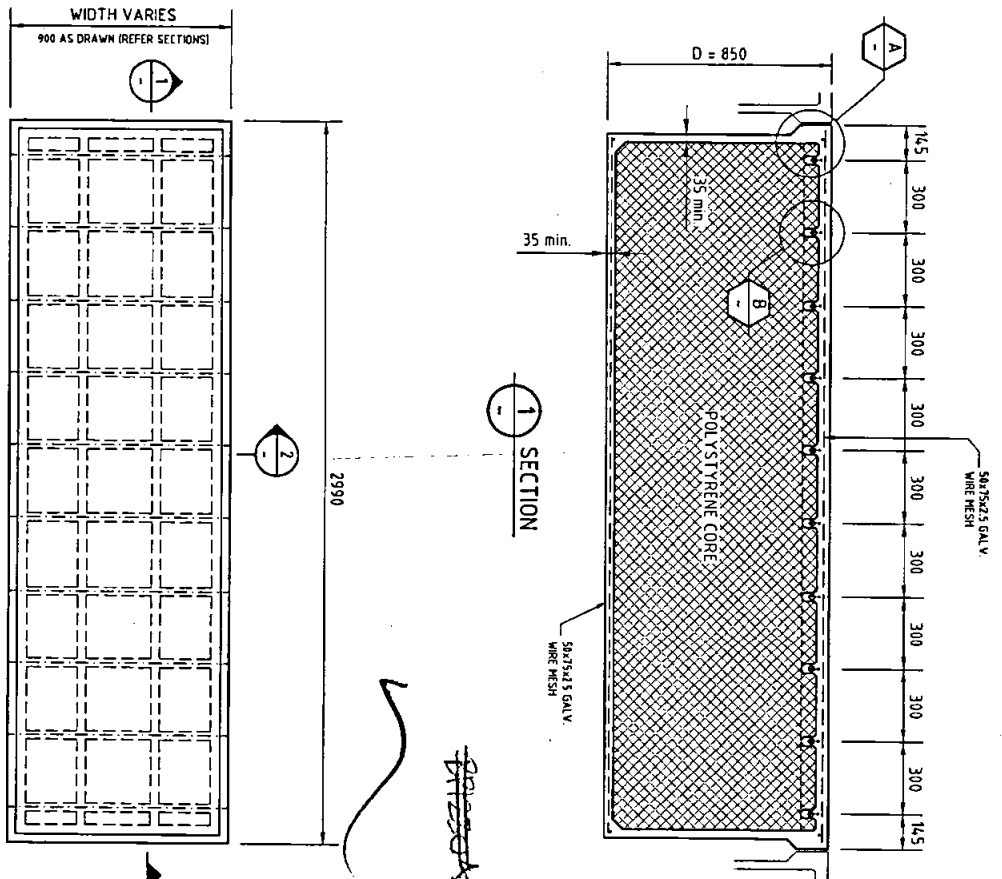
PITTWATER



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FOR BELL ROCK CONSTRUCTIONS ONLY

~~PROJECT~~ BR1310

Client	BELL ROCK CONSTRUCTIONS MOBILE 0434 197 861
Project	PROPOSED MARINA EXTENSION AT HERON COVE MARINA, QUEENS PARADE (WEST) NEWPORT, PITTWATER.
Title	PONTON LAYOUT
Author	ARDILL PAYNE & PARTNERS CONSULTING CIVIL AND STRUCTURAL ENGINEERS PROJECT MANAGERS TOWN PLANNERS AND SURVEYORS 27 Tenth Street MULLUMBAIVILLE NSW 2815 P 08 9392 8800 F 08 9392 8800 www.ardillpayne.com.au
Check	MAY 2012
Drawn	APR 2012
Scale	AS NOTED
Sheet No.	7369
Sheet Count	51

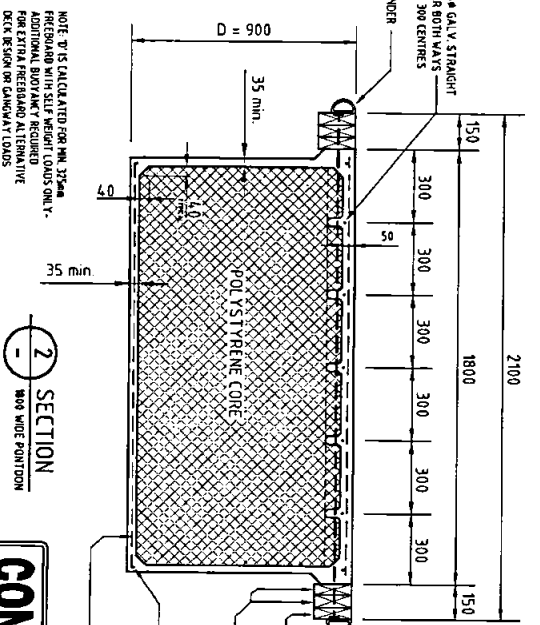
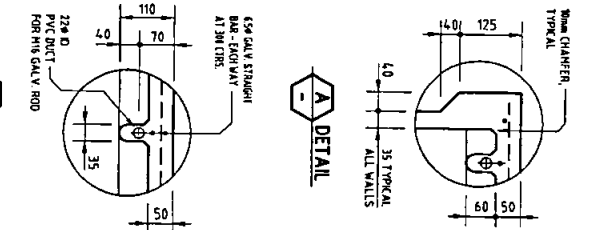
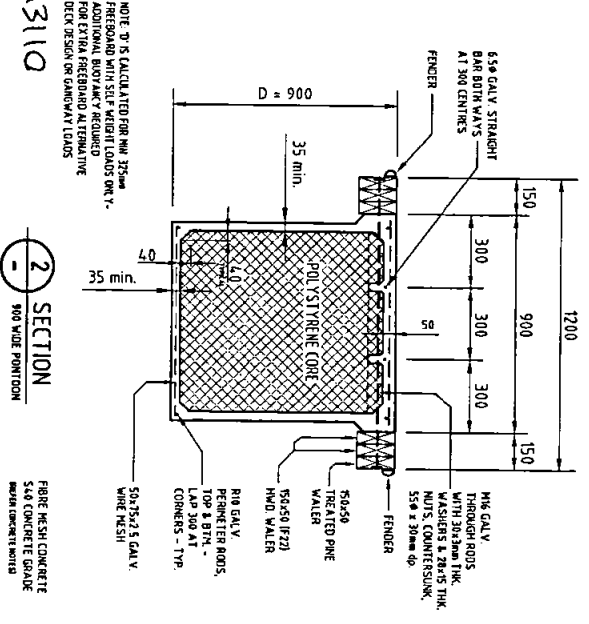


900 x 2990 PONTOON

- 900 x 2990 PONTOON SIMILAR
- NOTE: WALLS NOT SHOWN FOR CLARITY
- REFER TO DWG. H/F FOR TYPICAL NOTES

BR 3110

2 SECTION
900 WIDE PONTOON

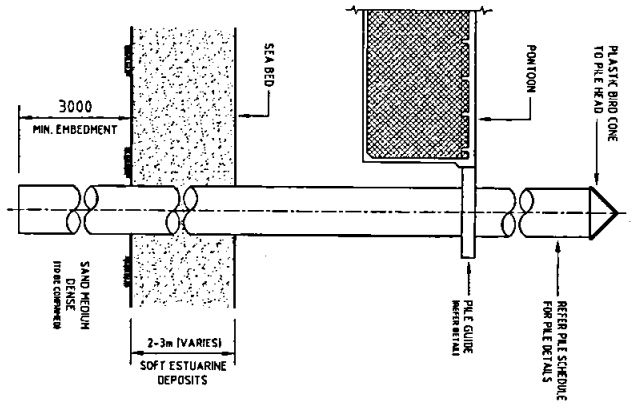


2 SECTION
900 WIDE PONTOON

NOTE: 'D' IS CALCULATED FOR MIN. 35mm FREEBORD WITH SELF WEIGHT LOADS ONLY. ADDITIONAL BUOYANCY REQUIRED FOR EXTRA FREEBORD ALTERNATIVE DESIGN OR GANGWAY LOADS

CONFIDENTIAL
FOR BELL ROCK CONSTRUCTIONS ONLY

Drawn	21-04-12	ISSUED FOR CONSTRUCTION	Approved	Client	BELL ROCK CONSTRUCTIONS MOBILE SALES 871 88
Project	PROPOSED MARINA EXTENSION AT HERON COVE MARINA, QUEENS PARADE (WEST) NEWPORT, PITTWATER.		Project	PONTOON DETAILS	
Scale	1:1		Scale	1:1	
Author	ARDILL PAYNE & PARTNERS CONSULTING CIVIL AND STRUCTURAL ENGINEERS PROJECT MANAGERS TOWN PLANNERS AND SURVEYORS		Author	ARDILL PAYNE & PARTNERS CONSULTING CIVIL AND STRUCTURAL ENGINEERS PROJECT MANAGERS TOWN PLANNERS AND SURVEYORS	
Checked	MAY 2012		Checked	MAY 2012	
Drawn	7369		Drawn	7369	
Scale	S2		Scale	S2	

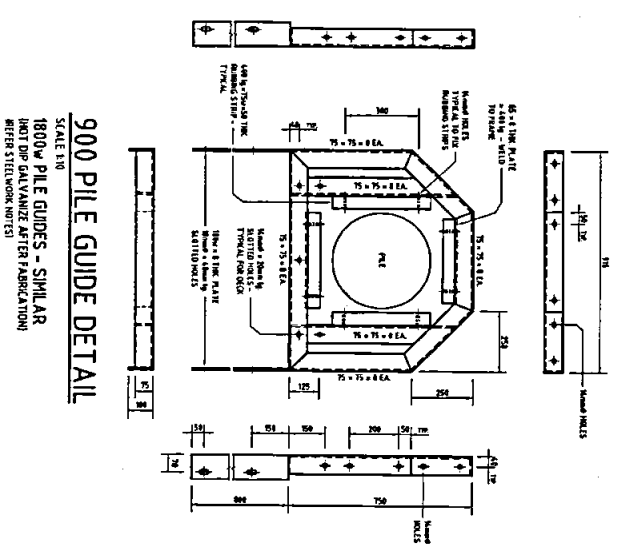


TYP. PILE ARRANGEMENT

NOT TO SCALE

PILE SCHEDULE			
PILE No.	DIAMETER	EMBEDMENT LENGTH	LOT OR ELEVATION LEVEL (LAND)
P1-P11	* 486x45 THK	3.0R	RL. 250m AHD THREE CORNERS
P12-P16	* 426 THK	3.0R	RL. 250m AHD THREE CORNERS

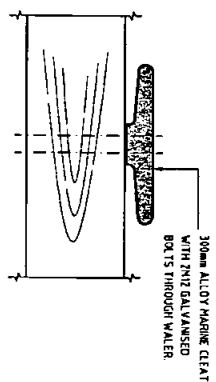
EMBEDMENT LENGTH INTO MINIMUM MEDIUM DENSE SAND
 PILES P16 TO P11 TO BE STEEL PILES SLEAVED WITH A HIGH DENSITY POLYETHYLENE DUPRE SHEATH (6mm THICK) EMBEDDED 500mm INTO THE SEA BED AND THE ANNUUS GROUTED WITH AN APPROVED CEMENTITIOUS GROUT.
 PILES P12 TO P17 ARE RE-USED THOSE MARINE PILES (C/A/P/C) TREATED.



900 PILE GUIDE DETAIL

SCALE 1:10

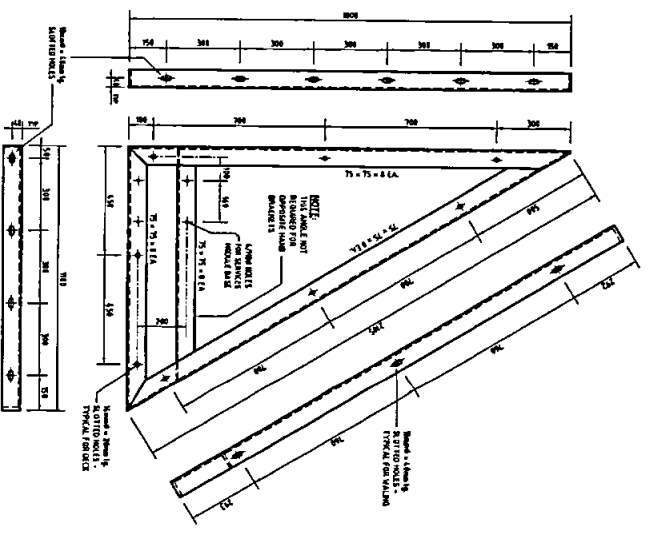
1800W PILE GUIDES - SIMILAR (NOT DIP GALVANIZE AFTER FABRICATION) (REFER STEELWORK NOTES)



MARINE MOORING CLEAT

SCALE 1:50

LOCATION OF CLEATS TO BE DETERMINED BY CLIENT



FINGER BRACKET DETAIL

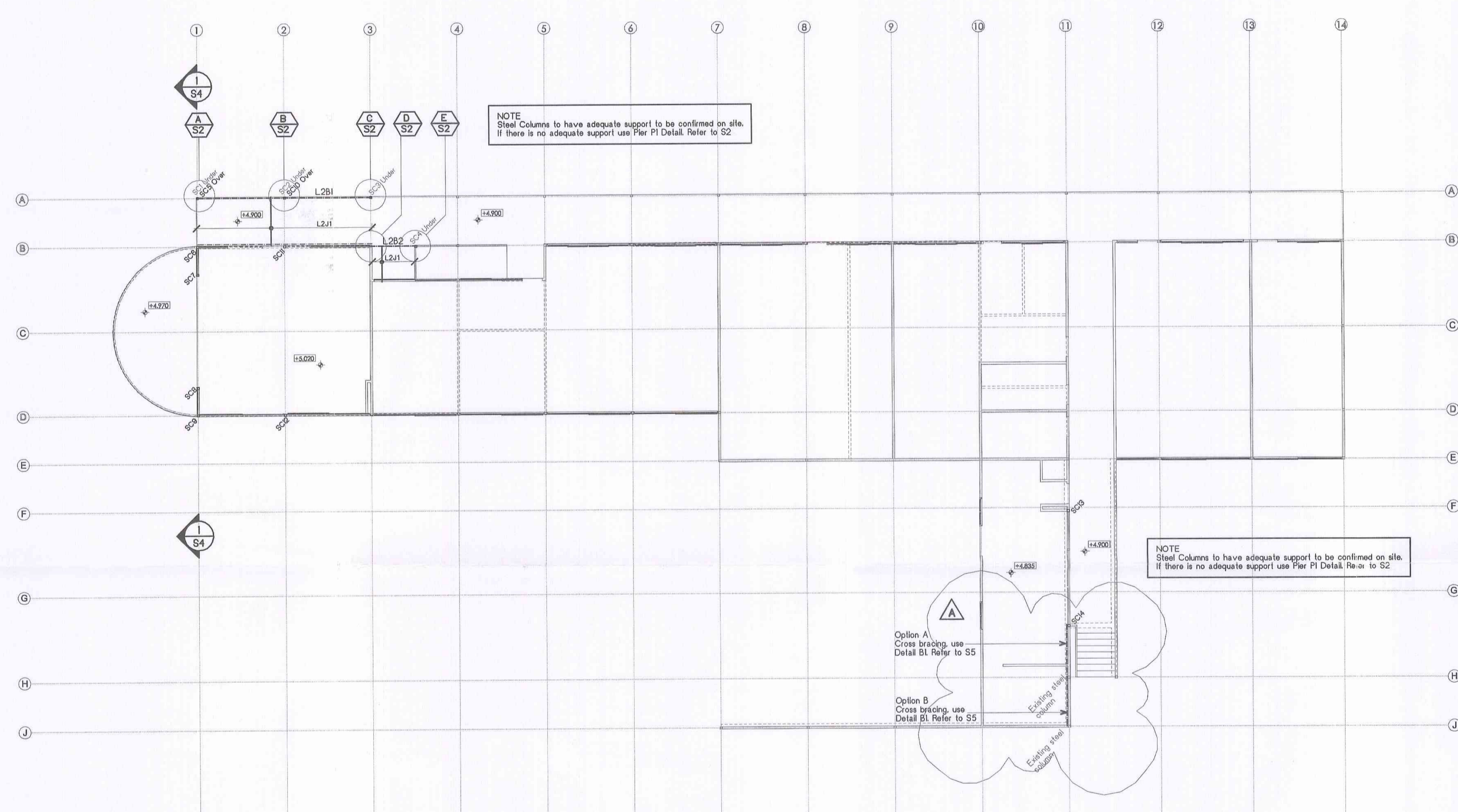
SCALE 1:10

(NOT DIP GALVANIZE AFTER FABRICATION) (REFER STEELWORK NOTES)

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FOR BELL ROCK CONSTRUCTIONS ONLY

BRP13110

24 MAY 13		SEASCOPE CONSTRUCTION		CLIENT		BELL ROCK CONSTRUCTIONS	
DATE	ISSUED FOR CONSTRUCTION	APPROVED BY	DATE	PROPOSED MARINA EXTENSION		AT: HERON COVE MARINA,	
				QUEENS PARADE (WEST NEWPORT, PITTSWATER,		PILE, PILE GUIDE, FINGER	
				PILOTAGE BRACKET AND MOORING CLEAT		DETAILS	
				ARDILL PAYNE & PARTNERS		CONSULTING CIVIL AND STRUCTURAL ENGINEERS	
				PROJECT MANAGERS TOWN PLANNERS AND SURVEYORS		70 TOWN ROAD	
				WILSONS PROMENADE		NEWPORT, SOUTH AUSTIN	
						7369	
						S3	



NOTE
Steel Columns to have adequate support to be confirmed on site.
If there is no adequate support use Pier Pl Detail. Refer to S2

NOTE
Steel Columns to have adequate support to be confirmed on site.
If there is no adequate support use Pier Pl Detail. Refer to S2

NOTE
ALL EXTERNAL EXPOSED STEEL TO BE GALVANISED

FIRST FLOOR (L2) MARKING PLAN Scale 1:100

L2 - MEMBER SIZES

Location Code	Member	Length (m)	Units	Weight Kg.
L2B1	300 PFC			
L2B2	250 PFC			
L2J1	H0 x 45 F17 Joists at 450 cts OR H0 x 45 F27 Joists at 450 cts			
SCI - SC4	89 x 89 x 5.0 SH-S			

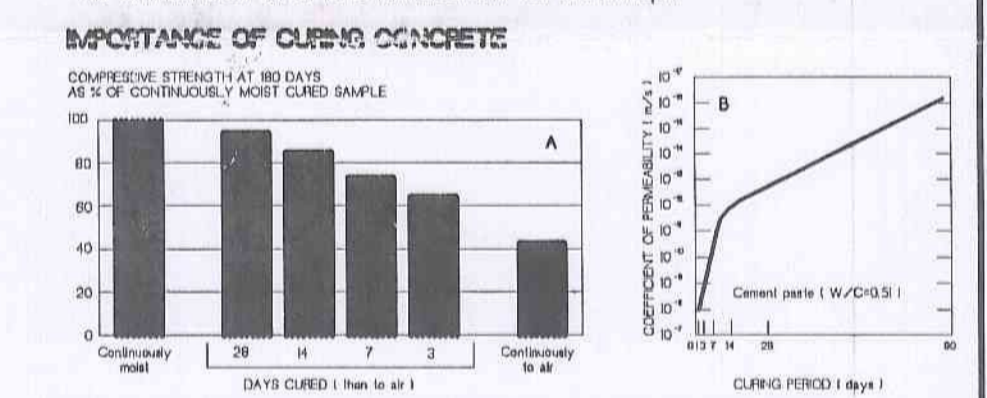
TOTAL WEIGHT

- TIMBER NOTES:**
- All work including bracing, wind bracing & tie downs shall be carried out in accordance with AS 3680.1, AS 1684.2, AS 1720.1 and the specification.
 - Refer to the Architects Drawings and the specification for all timber sizes not shown on these drawings.
 - All timber shall be free of Gum veins, pockets, knots holes or splits within 255mm of any connection.
 - Refer to specification for preservatives and finishes to timbers.
 - All bolts, nuts, washers and timber connectors shall be hot dip galvanised unless noted otherwise.
 - All F5 timber shown are nominal sizes only.

- STEELWORK NOTES:**
- Fabricate and erect all structural steelwork in accordance with AS 3680.1, AS 4100, AS 1554 and the Specification.
 - Do not obtain dimensions by scaling the structural elements.
 - Chip all welds free of slag.
 - All steelwork to be Hot Dipped Galvanised. Unless Otherwise Noted.
 - Unless otherwise noted use:
 - 6mm continuous fillet weld
 - 10mm thick gusset, fin and end plates, weld all round.
 - 10mm dia. 4.8/7 bolts
 - Minimum end bearing 150mm.

- CONCRETE NOTES:**
- All concrete work to be in accordance with AS 3600.
 - FC Refer to table.
 - Maximum aggregate size = 20 for footings, slabs & beams = 10 for block filling.
 - Slump = 80.
 - All concrete, including block filling to be vibrated.
 - Slabs to be kept damp for at least 14 days after placing or to be protected by an approved curing membrane.
 - Bar Chairs to be no more than 900mm c/c to c/c spacing.
 - Reinforcing Steel to comply with AS/NZS 4671:2001 and to be D500N unless noted otherwise. (where 500 = strength grade in megapascals & N = Normal ductility class).
 - Steel Reinforcement to be cut & bent in accordance with AS 3600.
 - Reinforcement to be tied at every other intersection minimum.
 - Moisture Vapour Membrane to be 200 Microns thick, U.V. Resistant and to be in accordance with AS 2570-1996. Acceptable manufacturers and processors of steel reinforcement must hold a valid certificate of approval, issued by the Australian Certification Authority for Reinforcing Steel Ltd (ACRS), or to an equivalent certification system as may be approved in writing by the specifier. Evidence of compliance with this clause must be obtained when the contract bids are received.

Element	Cover (mm)		FC at 28 days	
	Protected	Exposed	Protected	Exposed
Piers	65	50	25 MPa	25 MPa
Footings	50	45	25 MPa	25 MPa
Block Filling	refer to detail	refer to detail	25 MPa	25 MPa
Slab on Ground			32 MPa	32 MPa
- Top	30	45		
- Bottom				
Beams	50	50	40 MPa	40 MPa
Columns	30	45	40 MPa	40 MPa
Slabs	30	45	40 MPa	40 MPa
Walls	30	45	40 MPa	40 MPa



Effect of curing duration on: (A) compressive strength and (B) concrete permeability
Acknowledgement: Diagram is based on Fig 12 of Guide to Concrete Repair & Protection ISAA/A 894/09/02

A	GENERAL AMENDMENT	MP	20.04.12
No.	Amendment	Drawn	Date

PLAN OR DOCUMENT CERTIFICATION

I am a qualified... CIVIL, GEOTECHNICAL & STRUCTURAL ENGINEER...
I hold the following qualifications or licence No. MEngSc
..... F.I.E. Aust. Nper3 Struct.Civil.No. H9788

Further I am appropriately qualified to certify this component of the project
I hereby state that these plans or details comply with the conditions of development consent, the provisions of the Building Code of Australia, AS.1170, AS.1170.1, AS.1170.2, AS.1684, AS.2870.1, AS.3500, AS.3600, AS. 3700, AS.4100 & AS.1163

Jack D. Hodgson *[Signature]*
Name Date Signature

FIRST FLOOR (L2) MARKING PLAN

PROPOSED ALTERATIONS AND ADDITIONS
1 QUEENS PARADE
NEWPORT

ROWELL, MARINE

Our design and drawings are based upon and derived from information (including levels, surveys, etc) provided by the owner/architect/designer/ builder. (ARCH NAME, DRAWING NUMBER, DATE ETC)
Should the information provided to us be found to be deficient, unreliable, incorrect or inaccurate then our design/drawings may require modification. We take no responsibility for verifying the accuracy of the information that forms the basis of our brief and it is your obligation to verify it prior to the commencement of building operations.

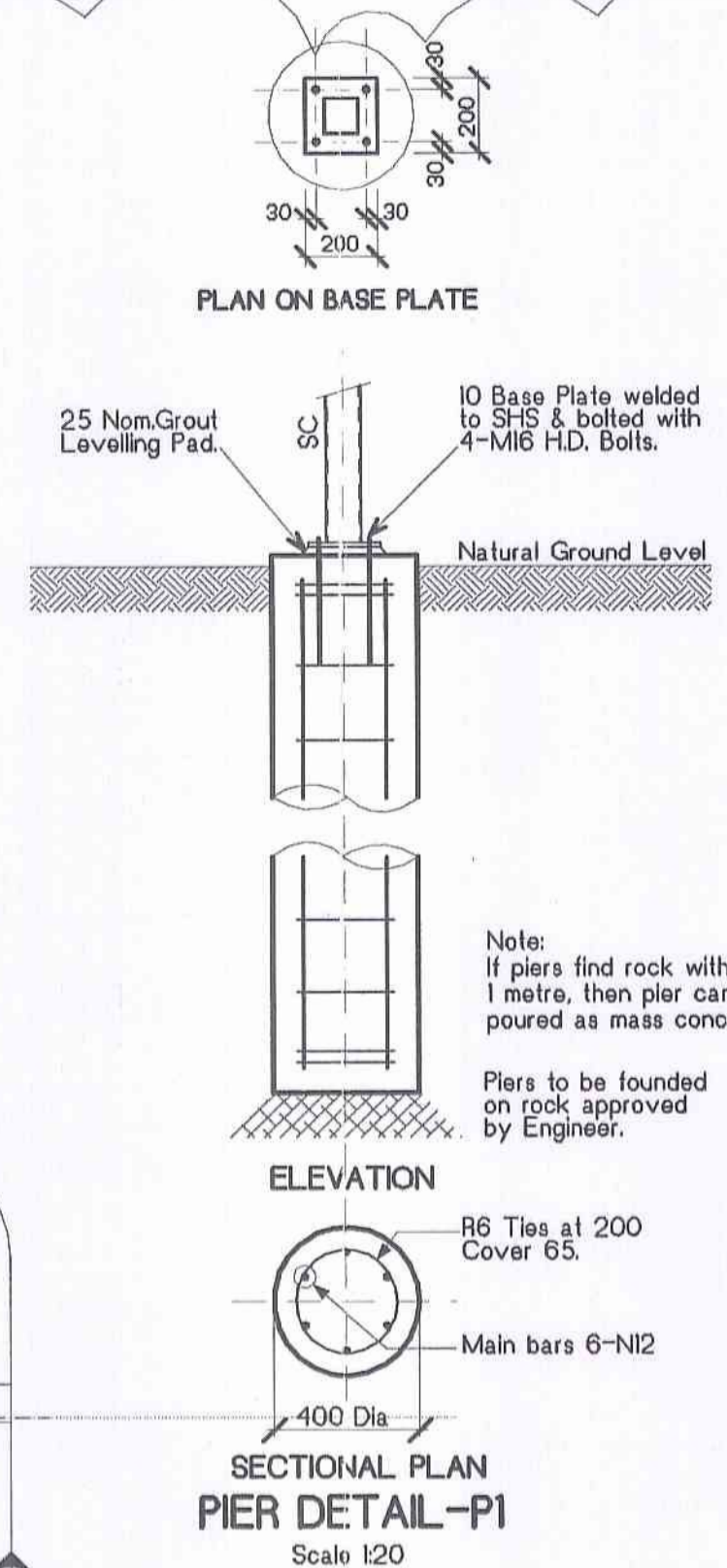
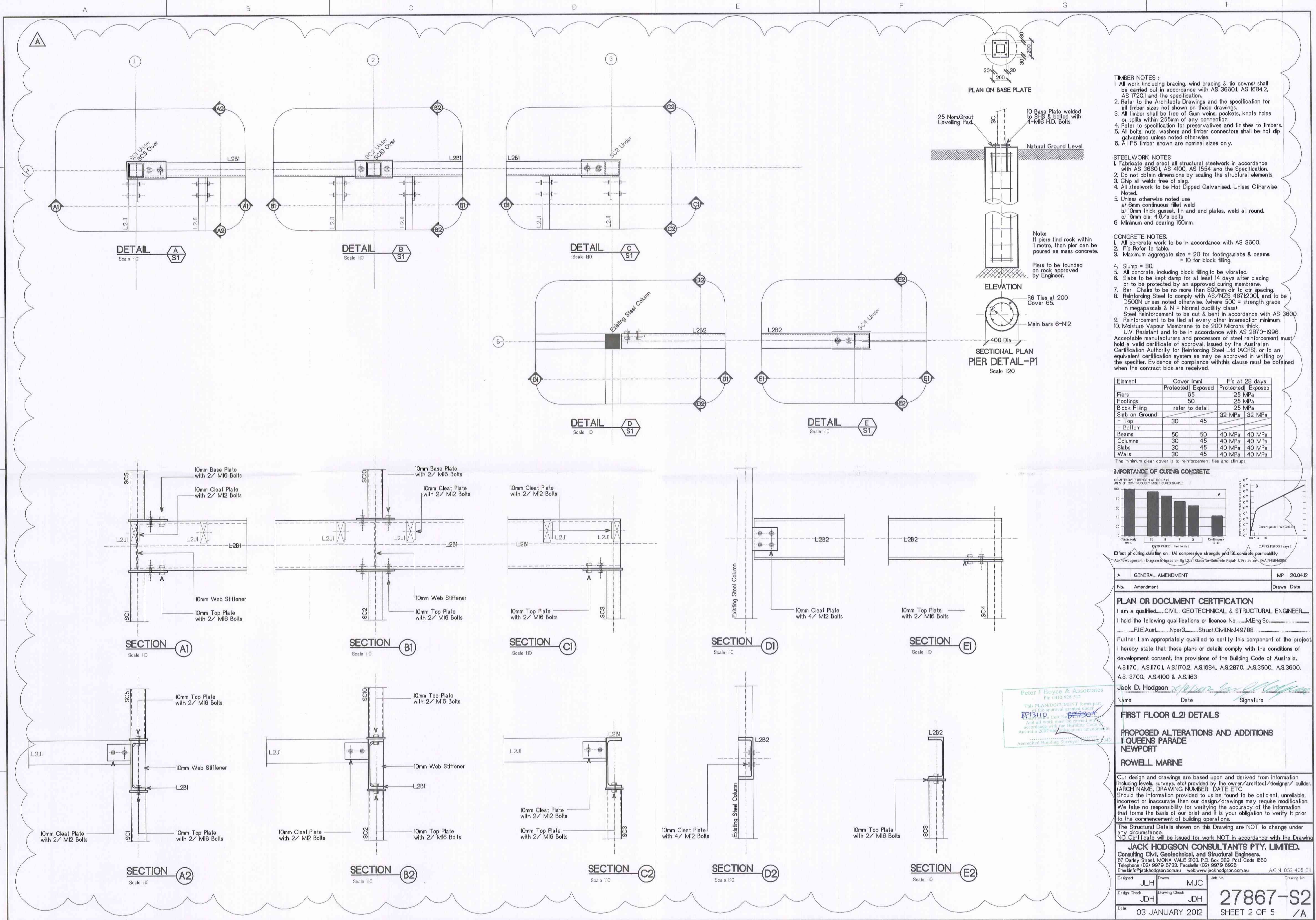
The Structural Details shown on this Drawing are NOT to change under any circumstance.
NO Certificate will be issued for work NOT in accordance with the Drawing

JACK HODGSON CONSULTANTS PTY. LIMITED.
Consulting Civil, Geotechnical, and Structural Engineers.
67 Darby Street, MONA VALE 2103 P.O. Box 389 Post Code 1680.
Telephone (02) 9979 8733 Facsimile (02) 9979 8926.
Email info@jackhodgson.com.au web www.jackhodgson.com.au ACN 053 405 011

Designed	Drawn	Job No.	Drawing No.
JLH	MJC		
Design Check	Drawing Check	27867-S1	
JDH	JDH		
Date	03 JANUARY 2012	SHEET 1 OF 5 /A	



Peter J. Boyce & Associates
P.O. Box 4412 928 512
This PLAN/DRAWING forms part of the approved proposal and all work must be carried out in accordance with the Building Code of Australia 2007 and associated amendments.
Accredited Building Surveyor No. 0593

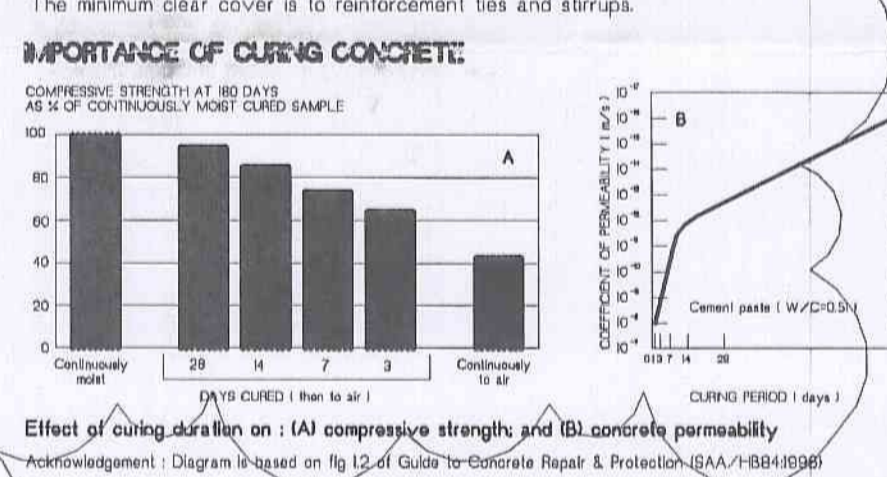


- TIMBER NOTES:**
- All work including bracing, wind bracing & tie down shall be carried out in accordance with AS 3660.1, AS 1684.2, AS 1720.1 and the specification.
 - Refer to the Architects Drawings and the specification for all timber sizes not shown on these drawings.
 - All timber shall be free of Gum veins, pockets, knots holes or splits within 255mm of any connection.
 - Refer to specification for preservatives and finishes to timbers.
 - All bolts, nuts, washers and timber connectors shall be hot dip galvanized unless noted otherwise.
 - All F5 timber shown are nominal sizes only.

- STEELWORK NOTES:**
- Fabricate and erect all structural steelwork in accordance with AS 3660.1, AS 4100, AS 1554 and the Specification.
 - Do not obtain dimensions by scaling the structural elements.
 - Chop all welds free of slag.
 - All steelwork to be Hot Dipped Galvanized, Unless Otherwise Noted.
 - Unless otherwise noted use:
 - a) 6mm continuous fillet weld
 - b) 10mm thick gusset, fin and end plates, weld all round.
 - c) 16mm dia. 4.8/s bolts
 - d) Minimum end bearing 150mm.

- CONCRETE NOTES:**
- All concrete work to be in accordance with AS 3600.
 - Fc Refer to table.
 - Maximum aggregate size = 20 for footings, slabs & beams. = 10 for block filling.
 - Slump = 90.
 - All concrete including block filling to be vibrated.
 - Slabs to be kept damp for at least 14 days after placing or to be protected by an approved curing membrane.
 - Bar Chairs to be no more than 80mm c/c to c/c spacing.
 - Reinforcing Steel to comply with AS/NZS 4671:2001, and to be D500N unless noted otherwise, (where 500 = strength grade in megapascals & N = Normal ductility class).
 - Steel Reinforcement to be cut & bent in accordance with AS 3600.
 - Reinforcement to be tied at every other intersection minimum.
 - Moisture Vapour Membrane to be 200 Microns thick, U.V. Resistant and to be in accordance with AS 2870-1996. Acceptable manufacturers and processors of steel reinforcement must hold a valid certificate of approval, issued by the Australian Certification Authority for Reinforcing Steel Ltd (ACRS), or to an equivalent certification system as may be approved in writing by the specifier. Evidence of compliance with this clause must be obtained when the contract bids are received.

Element	Cover (mm)		F _c at 28 days	
	Protected	Exposed	Protected	Exposed
Piers	65	50	25 MPa	25 MPa
Footings	50	50	25 MPa	25 MPa
Block Filling	refer to detail	refer to detail	25 MPa	25 MPa
Slab on Ground	30	45	32 MPa	32 MPa
Top	30	45		
Bottom				
Beams	50	50	40 MPa	40 MPa
Columns	30	45	40 MPa	40 MPa
Slabs	30	45	40 MPa	40 MPa
Walls	30	45	40 MPa	40 MPa



Effect of curing duration on (A) compressive strength and (B) concrete permeability. Acknowledgment: Diagram based on fig 12 of Guide to Concrete Repair & Protection (SMA/1984) 1996.

A	GENERAL AMENDMENT	MP	20.04.12
No.	Amendment		Drawn Date

PLAN OR DOCUMENT CERTIFICATION

I am a qualified...CIVIL, GEOTECHNICAL & STRUCTURAL ENGINEER...
 I hold the following qualifications or licence No.MEng.Sc.
F.I.E.Aust.Nper3.Struct.Civil.No.M9788.

Further I am appropriately qualified to certify this component of the project. I hereby state that these plans or details comply with the conditions of development consent, the provisions of the Building Code of Australia, A.S.1170, A.S.1170.1, A.S.1170.2, A.S.1684, A.S.1684.1, A.S.2870.1, A.S.3500, A.S.3600, A.S.3700, A.S.4100 & A.S.1163.

Jack D. Hodgson *[Signature]*

FIRST FLOOR (L2) DETAILS

PROPOSED ALTERATIONS AND ADDITIONS
1 QUEENS PARADE
NEWPORT
ROWELL MARINE

Our design and drawings are based upon and derived from information (including levels, surveys, etc) provided by the owner/architect/designer/ builder. (ARCH NAME, DRAWING NUMBER, DATE ETC.)
 Should the information provided to us be found to be deficient, unreliable, incorrect or inaccurate then our design/drawings may require modification. We take no responsibility for verifying the accuracy of the information that forms the basis of our brief and it is your obligation to verify it prior to the commencement of building operations.

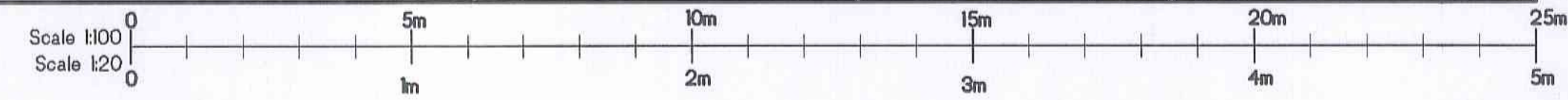
The Structural Details shown on this Drawing are NOT to change under any circumstance.

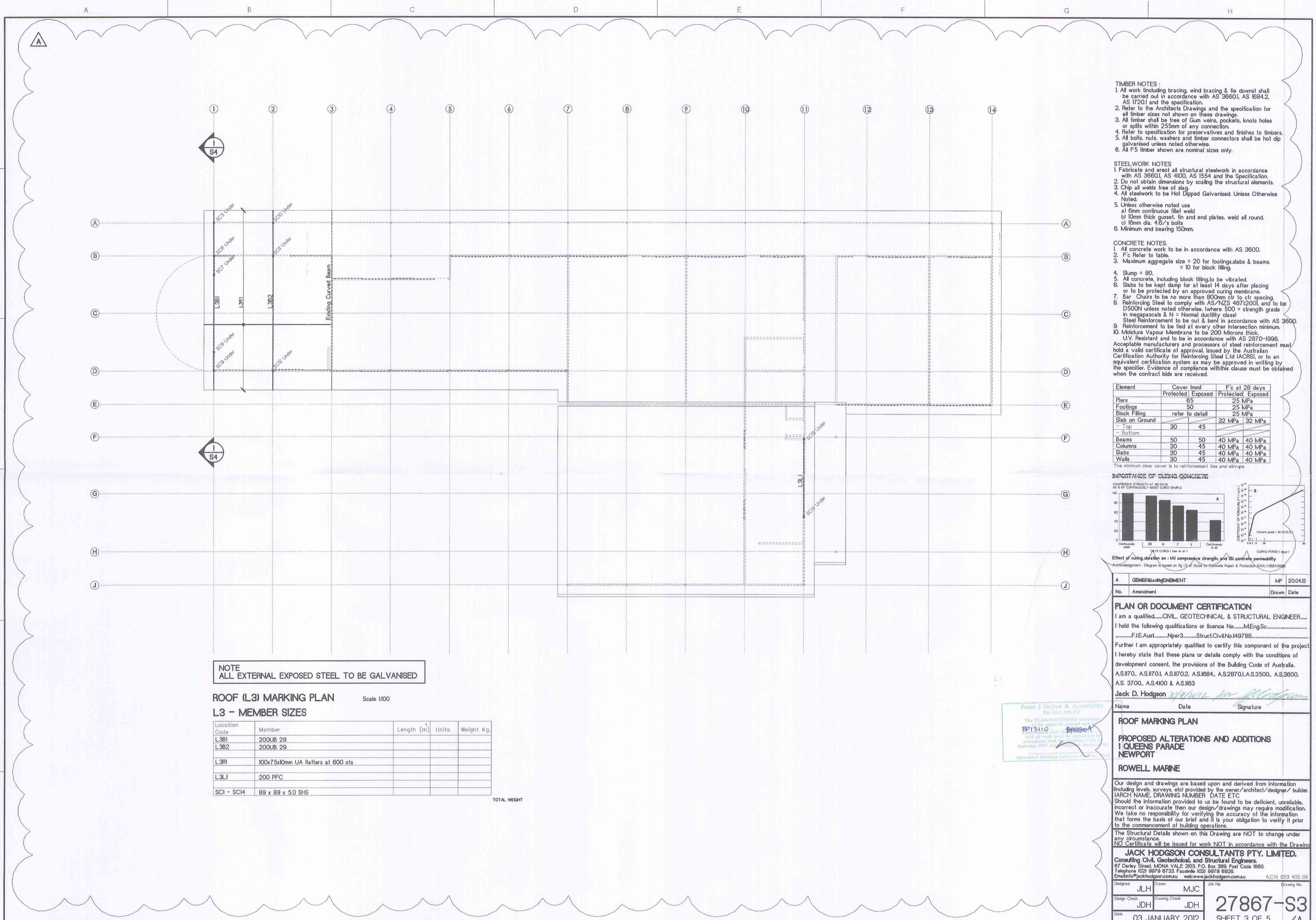
NO Certificate will be issued for work NOT in accordance with the Drawing.

JACK HODGSON CONSULTANTS PTY. LIMITED,
 Consulting Civil, Geotechnical, and Structural Engineers,
 67 Darley Street, MONA VALE 2103 P.O. Box 399, Post Code 1660.
 Telephone (02) 9679 6733. Facsimile (02) 9679 6926.
 Email: jack@hodgson.com.au web: www.jackhodgson.com.au A.C.N. 053 405 011

Designed	JLH	Drawn	MJC	App No.		Drawing No.	
Design Check	JDH	Drawing Check	JDH				
Date	03 JANUARY 2012						

27867-S2
 SHEET 2 OF 5 /A





1
S4

1
S4

NOTE
ALL EXTERNAL EXPOSED STEEL TO BE GALVANISED

ROOF (L3) MARKING PLAN Scale 1/100
L3 - MEMBER SIZES

Location Code	Member	Length (m)	Units	Weight Kg.
L3B1	200UB 29			
L3B2	200UB 29			
L3R1	100x75x10mm UA Rafterls at 600 cts			
L3L1	200 PFC			
SCI - SCI4	89 x 89 x 5.0 SHS			
TOTAL WEIGHT				

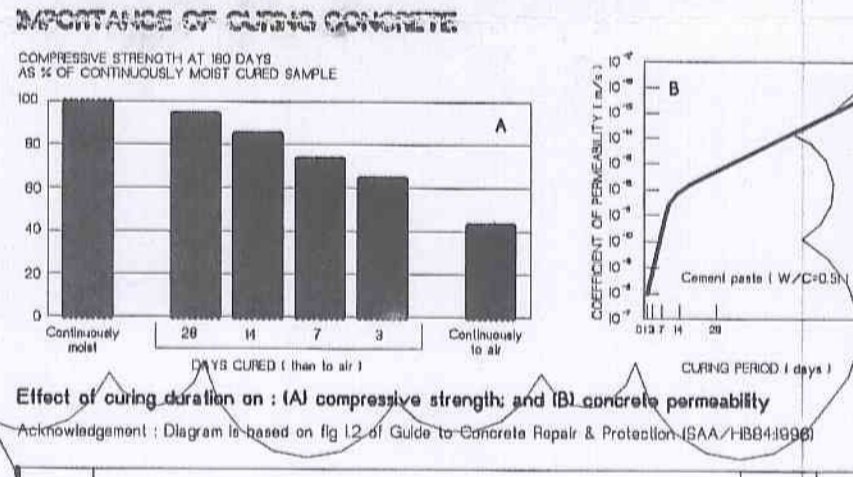
- TIMBER NOTES:**
- All work (including bracing, wind bracing & tie downs) shall be carried out in accordance with AS 3660.1, AS 1684.2, AS 1720.1 and the specification.
 - Refer to the Architects Drawings and the specification for all timber sizes not shown on these drawings.
 - All timber shall be free of Gum knots, pockets, knots holes or splits within 25mm of any connection.
 - Refer to specification for preservatives and finishes to timbers.
 - All bolts, nuts, washers and timber connectors shall be hot dip galvanised unless noted otherwise.
 - All F5 timber shown are nominal sizes only.

- STEELWORK NOTES:**
- Fabricate and erect all structural steelwork in accordance with AS 3660.1, AS 4100, AS 1554 and the Specification.
 - Do not obtain dimensions by scaling the structural elements.
 - Chop all welds free of slag.
 - All steelwork to be Hot Dipped Galvanised, Unless Otherwise Noted.
 - Unless otherwise noted use:
 - 6mm continuous fillet weld
 - 10mm thick gusset, fin and end plates, weld all round.
 - 16mm dia. 4.8/8 bolts
 - Minimum end bearing 150mm.

- CONCRETE NOTES:**
- All concrete work to be in accordance with AS 3600.
 - FC Refer to table.
 - Maximum aggregate size = 20 for footings, slabs & beams. = 10 for block filling.
 - Slump = 90.
 - All concrete, including block filling, to be vibrated.
 - Slabs to be kept damp for at least 14 days after placing or to be protected by an approved curing membrane.
 - Bar Chairs to be no more than 90mm c/c to c/c spacing.
 - Reinforcing Steel to comply with AS/NZS 4671:2001 and to be D500N unless noted otherwise, (where 500 = strength grade in megapascals & N = Normal ductility class)
 - Steel Reinforcement to be cut & bent in accordance with AS 3600.
 - Reinforcement to be tied at every other intersection minimum.
 - Moisture Vapour Membrane to be 200 Microns thick, U.V. Resistant and to be in accordance with AS 2970-1996. Acceptable manufacturers and processors of steel reinforcement must hold a valid certificate of approval, issued by the Australian Certification Authority for Reinforcing Steel Ltd (ACRSI), or to an equivalent certification system as may be approved in writing by the specifier. Evidence of compliance with this clause must be obtained when the contract bids are received.

Element	Cover (mm)		F _c at 28 days	
	Protected	Exposed	Protected	Exposed
Piers	65	25	25 MPa	
Footings	50	25	25 MPa	
Block Filling	refer to detail		25 MPa	
Slab on Ground			32 MPa	32 MPa
- Top	30	45		
- Bottom				
Beams	50	50	40 MPa	40 MPa
Columns	45	45	40 MPa	40 MPa
Slabs	30	45	40 MPa	40 MPa
Walls	30	45	40 MPa	40 MPa

The minimum clear cover is to reinforcement ties and stirrups.



A	GENERAL AMENDMENT	MP	20.04.12
No.	Amendment	Drawn	Date

PLAN OR DOCUMENT CERTIFICATION

I am a qualified...**CIVIL, GEOTECHNICAL & STRUCTURAL ENGINEER**....
I hold the following qualifications or licence No.....**MEngSc**.....
.....**F.I.E Aust**.....**Nper3**.....**Struct.Civil.No.149788**.....
Further I am appropriately qualified to certify this component of the project.
I hereby state that these plans or details comply with the conditions of development consent, the provisions of the Building Code of Australia, A.S.1170, A.S.1170.1, A.S.1170.2, A.S.1684, A.S.1684.1, A.S.2870.1, A.S.3500, A.S.3600, A.S. 3700, A.S.4100 & A.S.1183
Jack D. Hodgson *[Signature]*
Name Date Signature

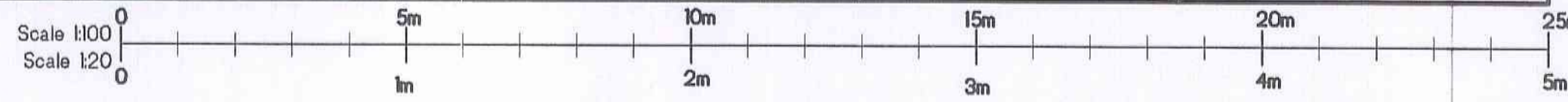
ROOF MARKING PLAN

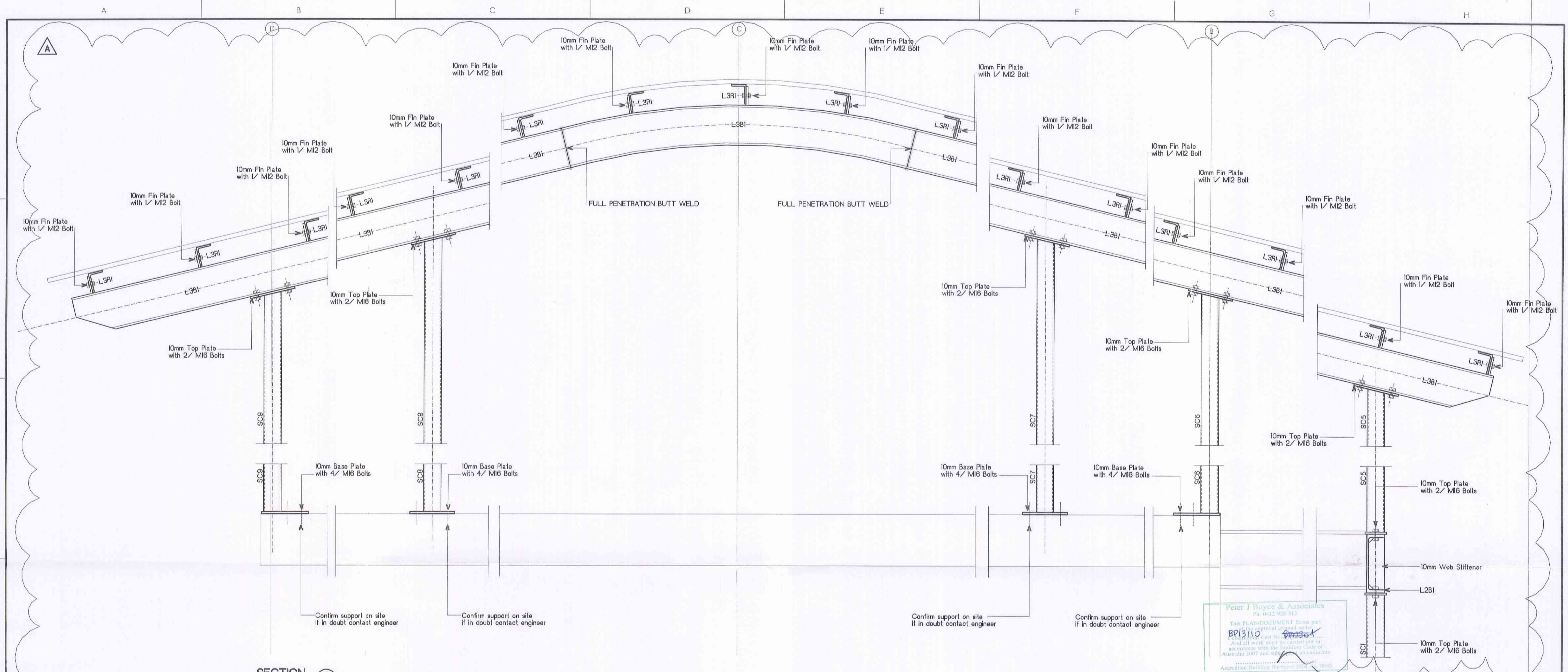
PROPOSED ALTERATIONS AND ADDITIONS
1 QUEENS PARADE
NEWPORT
ROWELL MARINE

Our design and drawings are based upon and derived from information (including levels, surveys, etc) provided by the owner/architect/designer/ builder. (ARCHIT NAME, DRAWING NUMBER, DATE ETC)
Should the information provided to us be found to be deficient, unreliable, incorrect or inaccurate then our design/drawings may require modification. We take no responsibility for verifying the accuracy of the information that forms the basis of our brief and it is your obligation to verify it prior to the commencement of building operations.
The Structural Details shown on this Drawing are NOT to change under any circumstances.
NO Certificate will be issued for work NOT in accordance with the Drawing

JACK HODGSON CONSULTANTS PTY. LIMITED,
Consulting Civil, Geotechnical, and Structural Engineers.
87 Darby Street, MONA VALE 2103, P.O. Box 388, Post Code 1680.
Telephone (02) 9879 6725 Facsimile (02) 9879 6925
Email info@jackhodgson.com.au web www.jackhodgson.com.au ACN: 053 405 011

Designed **JLH** Drawn **MJC** Job No. Drawing No.
Design Check **JDH** Drawing Check **JDH**
Date **03 JANUARY 2012** SHEET 3 OF 5 /A

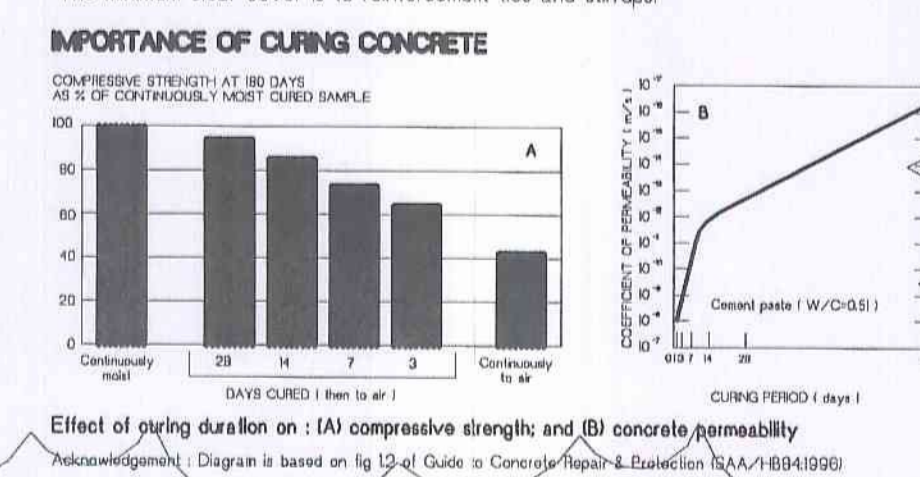




SECTION 1
Scale 1:10

CONCRETE NOTES:
 1. All concrete work to be in accordance with AS 3600.
 2. F_c Refer to table.
 3. Maximum aggregate size = 20 for footings/slabs & beams.
 4. Slump = 80.
 5. All concrete, including block filling to be vibrated.
 6. Slabs to be kept damp for at least 14 days after placing or to be protected by an approved curing membrane.
 7. Bar Chairs to be no more than 800mm c/c to c/c spacing.
 8. Reinforcing Steel to comply with AS/NZS 4672:2001 and to be D500N unless noted otherwise, where S500 = strength grade in megapascals & N = Normal ductility class.
 9. Steel Reinforcement to be cut & bent in accordance with AS 3600.
 10. Reinforcement to be tied at every other intersection minimum.
 11. Moisture Vapour Membrane to be 200 Microns thick, U.V. Resistant and to be in accordance with AS 2670-1996. Acceptable manufacturers and processors of steel reinforcement must hold a valid certificate of approval issued by the Australian Certification Authority for Reinforcing Steel Ltd (ACRS), or to an equivalent certification system as may be approved in writing by the specifier. Evidence of compliance with this clause must be obtained when the contract bids are received.

Element	Cover (mm)		F _c at 28 days	
	Protected	Exposed	Protected	Exposed
Piers	65	45	25 MPa	25 MPa
Footings	50	45	25 MPa	25 MPa
Block Filling	refer to detail		25 MPa	25 MPa
Slab on Ground	30	45	32 MPa	32 MPa
Top	30	45	40 MPa	40 MPa
Bottom	30	45	40 MPa	40 MPa
Beams	50	50	40 MPa	40 MPa
Columns	30	45	40 MPa	40 MPa
Slabs	30	45	40 MPa	40 MPa
Walls	30	45	40 MPa	40 MPa



TIMBER NOTES:
 1. All work (including bracing, wind bracing & tie down) shall be carried out in accordance with AS 9860.1, AS 1684.2, AS 1720.1 and the specification.
 2. Refer to the Architect's Drawings and the specification for all timber sizes not shown on these drawings.
 3. All timber shall be free of Gum veins, pockets, knots holes or splits within 255mm of any connection.
 4. Refer to specification for preservatives and finishes to timbers.
 5. All bolts, nuts, washers and timber connectors shall be hot dip galvanised unless noted otherwise.
 6. All F5 timber shown are nominal sizes only.

STEELWORK NOTES:
 1. Fabricate and erect all structural steelwork in accordance with AS 3600.1, AS 4100, AS 1554 and the Specification.
 2. Do not obtain dimensions by scaling the structural elements.
 3. Chip all welds free of slag.
 4. All steelwork to be Hot Dipped Galvanised Unless Otherwise Noted.
 5. Unless otherwise noted use:
 a) 6mm continuous fillet weld
 b) 10mm thick gusset, fin and end plates, weld all round.
 c) 10mm dia. 4.8/8 bolts
 6. Minimum end bearing 150mm.

A	GENERAL AMENDMENT	MP	20.04.12
No.	Amendment	Drawn	Date

PLAN OR DOCUMENT CERTIFICATION
 I am a qualified CIVIL, GEOTECHNICAL & STRUCTURAL ENGINEER.
 I hold the following qualifications or licence No. MEngSc
 F.I.E. Aust. Nper3 Struct.CivilNo.149788.
 Further I am appropriately qualified to certify this component of the project. I hereby state that these plans or details comply with the conditions of development consent, the provisions of the Building Code of Australia, A.S.1170, A.S.1170.1, A.S.1170.2, A.S.1684, A.S.2870.L.A.S.3500, A.S.3600, A.S. 3700, A.S.4100 & A.S.183.
 Jack D. Hodgson 20/4/12
 Name Date Signature

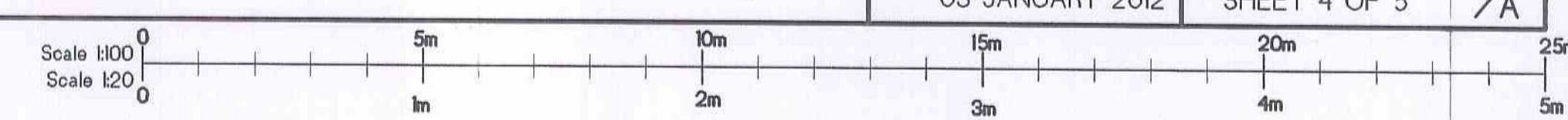
ROOF (L3) DETAILS
PROPOSED ALTERATIONS AND ADDITIONS
1 QUEEN'S PARADE
NEWPORT
ROWELL MARINE

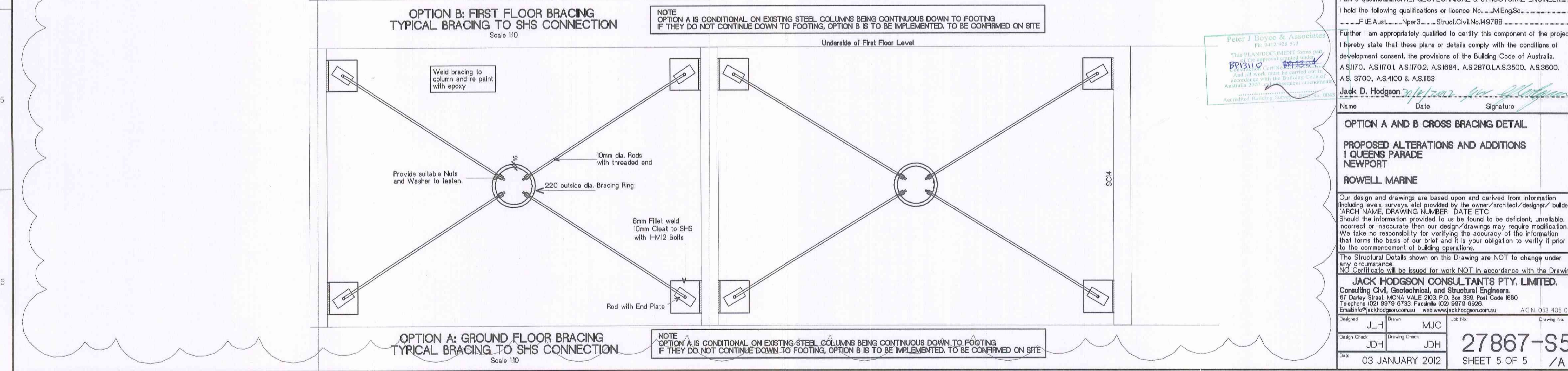
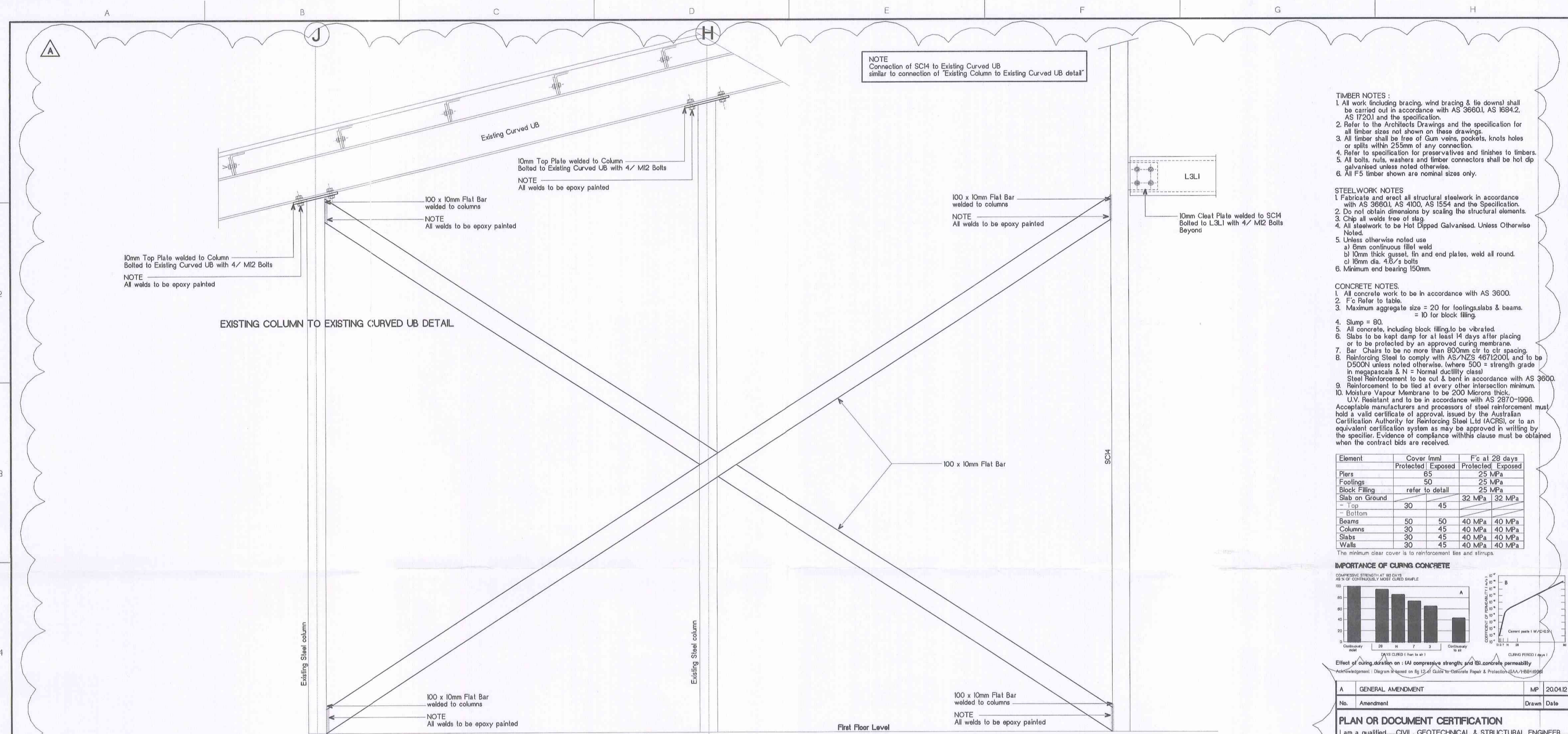
Our design and drawings are based upon and derived from information (including levels, surveys, etc) provided by the owner/architect/designer/ builder. I/ARCH NAME, DRAWING NUMBER, DATE ETC. Should the information provided to us be found to be deficient, unreliable, incorrect or inaccurate then our design/drawings may require modification. We take no responsibility for verifying the accuracy of the information that forms the basis of our brief and it is your obligation to verify it prior to the commencement of building operations.
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JACK HODGSON CONSULTANTS PTY. LIMITED,
 Consulting Civil, Geotechnical, and Structural Engineers.
 67 Darley Street, MONA VALE 2103, P.O. Box 389, Post Code 1860.
 Telephone: (02) 9979 6733, Facsimile: (02) 9979 6926.
 Email: info@jackhodgson.com.au, web: www.jackhodgson.com.au A.C.N. 053 405 011

Designed	JLH	Drawn	MJC	Job No.	
Design Check	JDH	Drawing Check	JDH		

Date: 03 JANUARY 2012

27867-S4
 SHEET 4 OF 5 /A





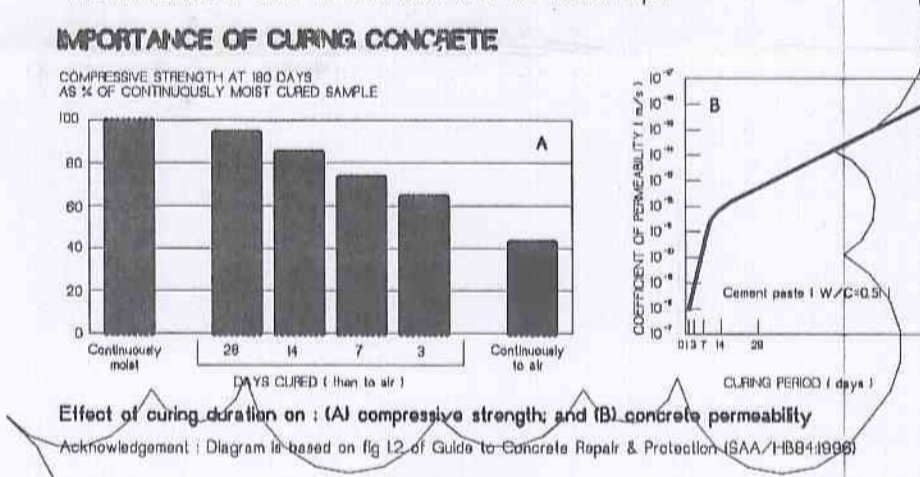
- TIMBER NOTES:**
- All work, including bracing, wind bracing & tie down shall be carried out in accordance with AS 3660.1, AS 1684.2, AS 1720.1 and the specification.
 - Refer to the Architects Drawings and the specification for all timber sizes not shown on these drawings.
 - Timber shall be free of Gum veins, pockets, knots holes or splits within 25mm of any connection.
 - Refer to specification for preservatives and finishes to timbers.
 - All bolts, nuts, washers and timber connectors shall be hot dip galvanized unless noted otherwise.
 - All F5 timber shown are nominal sizes only.

- STEELWORK NOTES:**
- Fabricate and erect all structural steelwork in accordance with AS 3660.1, AS 4100, AS 1554 and the Specification.
 - Do not obtain dimensions by scaling the structural elements.
 - Chop all welds free of slag.
 - All steelwork to be Hot Dipped Galvanized. Unless Otherwise Noted.
 - Unless otherwise noted use:
 - 6mm continuous fillet weld
 - 10mm thick gusset, fin and end plates, weld all round.
 - 10mm dia. 4.8/5 bolts
 - Minimum end bearing 150mm.

- CONCRETE NOTES:**
- All concrete work to be in accordance with AS 3600.
 - F5 Refer to table.
 - Maximum aggregate size = 20 for footings, slabs & beams. = 10 for block filling.
 - Slump = 80.
 - All concrete, including block filling, to be vibrated.
 - Slabs to be kept damp for at least 14 days after placing or to be protected by an approved curing membrane.
 - Bar Chairs to be no more than 50mm dia to clear spacing.
 - Reinforcing Steel to comply with AS/NZS 4671:2001 and to be D500N unless noted otherwise, (where 500 = strength grade in megapascals & N = Normal ductility class).
 - Steel Reinforcement to be cut & bent in accordance with AS 3600.
 - Reinforcement to be tied at every other intersection minimum.
 - Moisture Vapour Membrane to be 200 Microns thick, U.V. Resistant and to be in accordance with AS 2870-1996. Acceptable manufacturers and processors of steel reinforcement must hold a valid certificate of approval, issued by the Australian Certification Authority for Reinforcing Steel Ltd (ACRS), or to an equivalent certification system as may be approved in writing by the specifier. Evidence of compliance with this clause must be obtained when the contract bids are received.

Element	Cover fmm		F _c at 28 days	
	Protected	Exposed	Protected	Exposed
Piers	65		25 MPa	
Footings	50		25 MPa	
Block Filling	refer to detail		25 MPa	
Slab on Ground			32 MPa	32 MPa
- Top	30	45		
- Bottom				
Beams	50	50	40 MPa	40 MPa
Columns	30	45	40 MPa	40 MPa
Slabs	30	45	40 MPa	40 MPa
Walls	30	45	40 MPa	40 MPa

The minimum clear cover is to reinforcement ties and stirrups.



GENERAL AMENDMENT			MP	2004.12
No.	Amendment		Drawn	Date
A				

PLAN OR DOCUMENT CERTIFICATION

I am a qualified... CIVIL, GEOTECHNICAL & STRUCTURAL ENGINEER....
 I hold the following qualifications or licence No..... MEngSc.....
 F.I.E.Aust..... Npar3..... Struct.CivilNo.149788.....
 Further I am appropriately qualified to certify this component of the project.
 I hereby state that these plans or details comply with the conditions of development consent, the provisions of the Building Code of Australia, AS.1170, AS.1170.1, AS.1170.2, AS.1884, AS.2870.1, AS.3500, AS.3600, AS.3700, AS.4100 & AS.1853
Jack D. Hodgson 27/1/2012
 Name Date Signature

OPTION A AND B CROSS BRACING DETAIL

PROPOSED ALTERATIONS AND ADDITIONS
1 QUEENS PARADE
NEWPORT
ROWELL MARINE

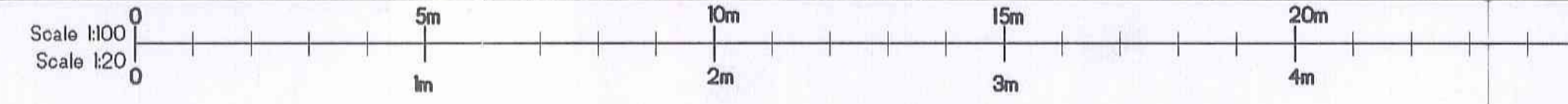
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 Email info@jackhodgson.com.au, web www.jackhodgson.com.au

Designed: JLH Drawn: MJC Job No: Drawing No:
 Design Check: JDH Drawing Check: JDH
 Date: 03 JANUARY 2012

27867-S5
 SHEET 5 OF 5 /A




Peter J Boyce & Associates

BPB Accredited Certifier No: BPB0043
 Level 2, 41 Rawson Street Epping NSW 2121
 Email: info@boycecorp.com.au

Ph: 9868 2855

Fax: 9868 2655

Fire Safety Schedule

SECTION A: Development details					
Unit/Street no. 4		Street name Kalinya Road			
Suburb or town Newport NSW				Postcode 2106	
SECTION B: Construction certificate details					
Name of certifying authority Peter Boyce		Certificate number/identifier BP13110		Date of certificate 23 January 2013	
SECTION C: Statutory fire safety measures <small>(as set out under clause 166 EP&A Reg)</small>					
No.	Measure	Particulars of measures (including where the measures are set out, eg, alternative solution report or building plans)	Currently implemented Yes/No	Proposed implementation Yes/No	Minimum performance standard
1	Illuminated Exits	As per BCA	No	Yes	BCA E4.8 & AS2293.
2	Fire Blanket	As per BCA	No	Yes	AS2444, AS3504.
3	Fire Hydrant	As per BCA	No	Yes	BCA E1.3 & AS2419.1.
4	Fire Hose Reel	As per BCA	No	Yes	BCA E1.4 & AS2441.
5	Portable Fire Extinguishers	As per BCA	No	Yes	BCA E1.6 & AS2444-1995.
6					
7					
8					
SECTION F: Certifying authority					
Name Peter Boyce		Signature 			
Accreditation No. BPB0043		Date «Date»			