

Construction Certificate Determination

issued under the Environmental Planning and Assessment Act 1979 Section 109C (1) (b), 81A (2) and 81A (4)

Certificate No. 2006/1639

Council	Pittwater	
Determination	Approved	
date of determination	16 November 200	6
Subject land	 	
Address	213 Riverview Roa	d, Avalon
Lot No, DP No.	Lot Y DP 110460	
Applicant		
Name	Mr M Hill	
Address	215 Riverview Roa	d, Avalon NSW 2107
Contact No. (phone)	0409 990 644	
Owner		
Name	Mr Michael Hill	
Address	215 Riverview Roa	d, Avalon NSW 2107
Contact No. (phone)	0409 990 644	
Description of Development		
Type of Work	New Boatshed Onl	У
Builder or Owner/Builder	_	· ·
Name	Bellevarde Constru	iction Pty Ltd
Contractor Licence No/Permit	31493	
		SCANNED
Value of Work	A.A. A.S. S.S.	2 1 NOV 2006
Building	\$31,000.00	
		PITTWATER GOUNCIL

Attachments



- 1. Copy of completed Construction Certificate Application Form
- 2. Pittwater Council receipt, no. 204173 for payment of Long Service Levy

Suite 13/90 Mona Vale Road Mona Vale NSW 2103 PO Box 326 Mona Vale NSW 1660 ph: 9999 0003 email: info@insightcert.com.au ABN 54 115 090 456 17/1/06

Plans & Specifications certified

List plans no(s) & specifications Reference

- 1. Architectural Plans & Construction Specifications, reference nos. AO3cc, AO4cc, AO5cc, AO7cc & AO8cc prepared by Andrew Coomer & Associates Pty Ltd.
- 2. Structural Engineers Details, (including Geotechnical Engineer endorsement) reference no.051201 dated Feb 06 prepared by NB Consulting Engineers Pty Ltd.
- Completed Form 2 of the Geotechnical Risk Management Policy for Pittwater completed & endorsed.
- 4. Copy of Sydney Water Approval, dated 10 October 2006.
- 5. External finishes schedule prepared by Andrew Coomer dated September 2006

Certificate

I certify that the work if completed in accordance with these plans and specifications will comply with the requirements of S81A(5) of the Environmental Planning and Assessment Act 1979.

1 6 NOV 2006

Signed

Date of endorsement Certificate No.

2006/1639

Certifying Authority

Name of Accredited Certifier Accreditation No.

Accreditation Authority

Contact No. Address

Stephen Pinn POO40

Dept of Infrastructure, Planning & Natural Resources

(NSW Accreditation Scheme)

(02) 9999 0003

13/90 Mona Vale Road, Mona Vale NSW 2103

Development Consent

Development Application No. Date of Determination

N0553/05

7 October 2005

BCA Classification

10a

Pittwater Council

OFFICIAL RECEIPT

2/11/2006 Receipt No 204173

To CHMAANJA PTY LTD AFT

Applic	Reference		Amount
	GLSL-Buil 1 x NO245/05	213	\$110.00 Rivervie

Total:	\$110.00	
Amounts T	endered	•
Cash	\$0.00	
Cheque	\$110.00	,
Db/Cr Card	\$0. 00	
Money Order	\$0.00	
Agency Rec	\$0.00	
Total	\$110.00	
Rounding	\$0.00	
Change	\$0.00	
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External Finishes Schedule

New Boat Shed and Inclinator

213 Riverview Road Clareville NSW September 2006

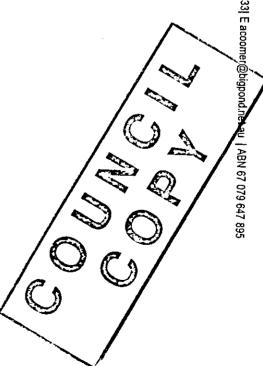
Roof Sheeting Weathered Zinc

External Timber Decking, Window Frames and Doors Sikkens Transparent Timber Oil.

External wall cladding Weathered Zinc

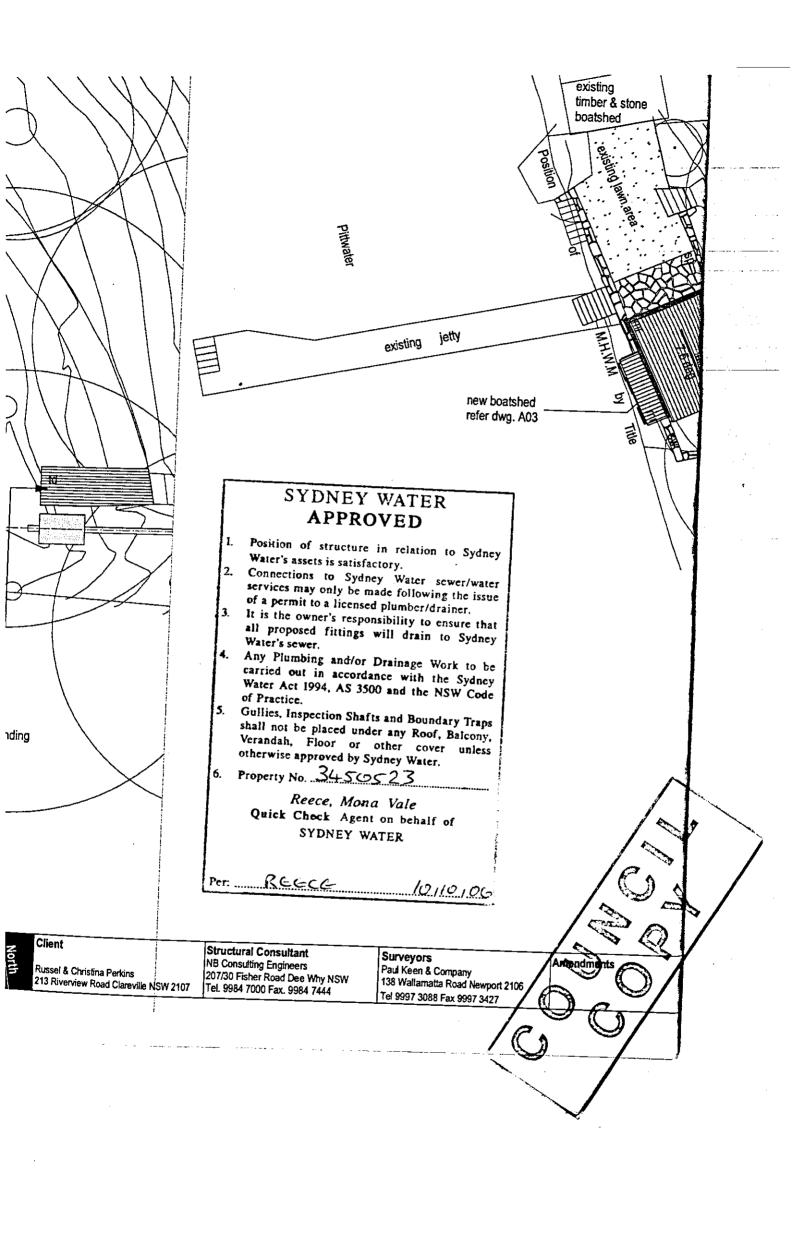
The Above finishes are in accordance with the approved DA.

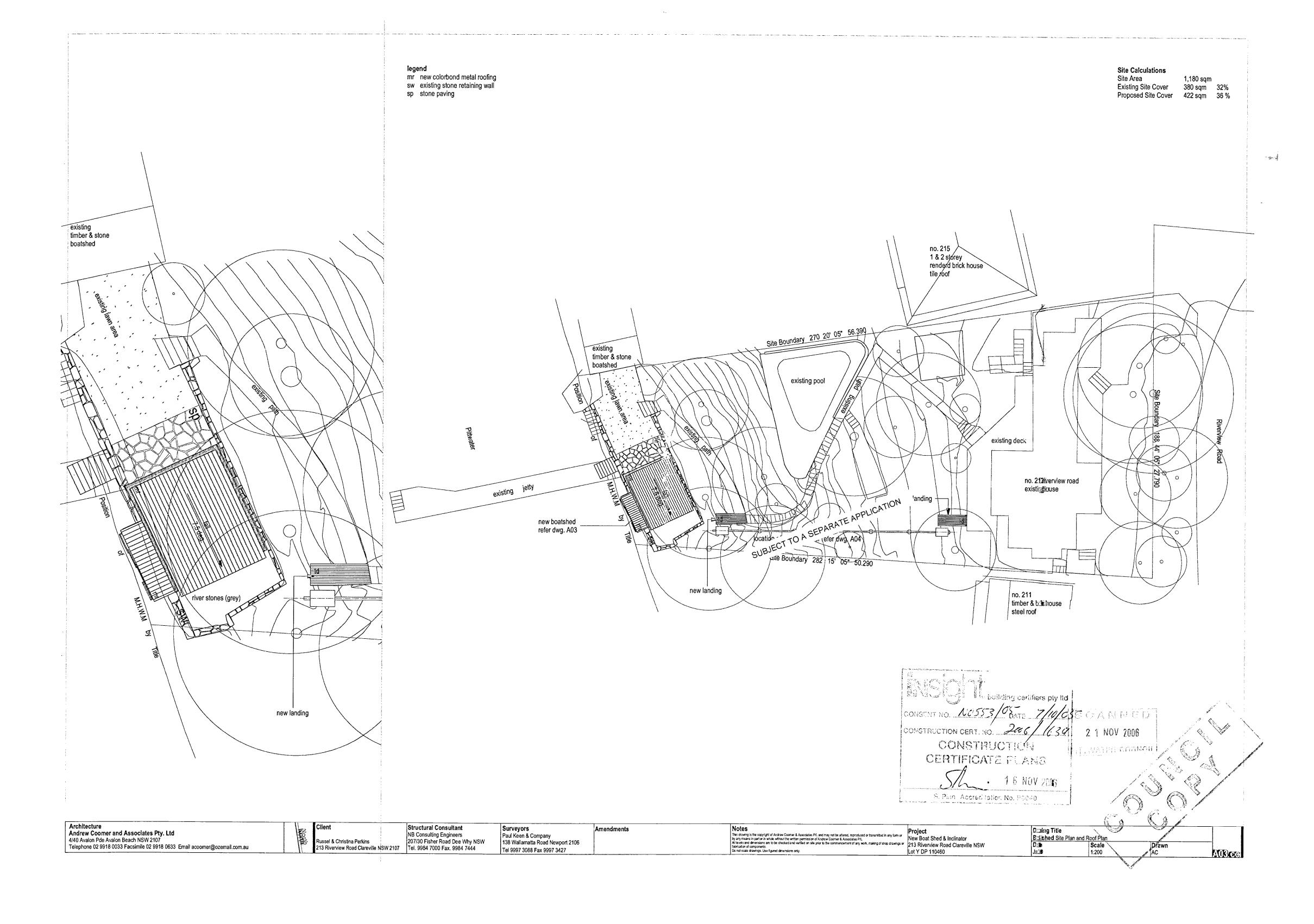
Andrew Coomer

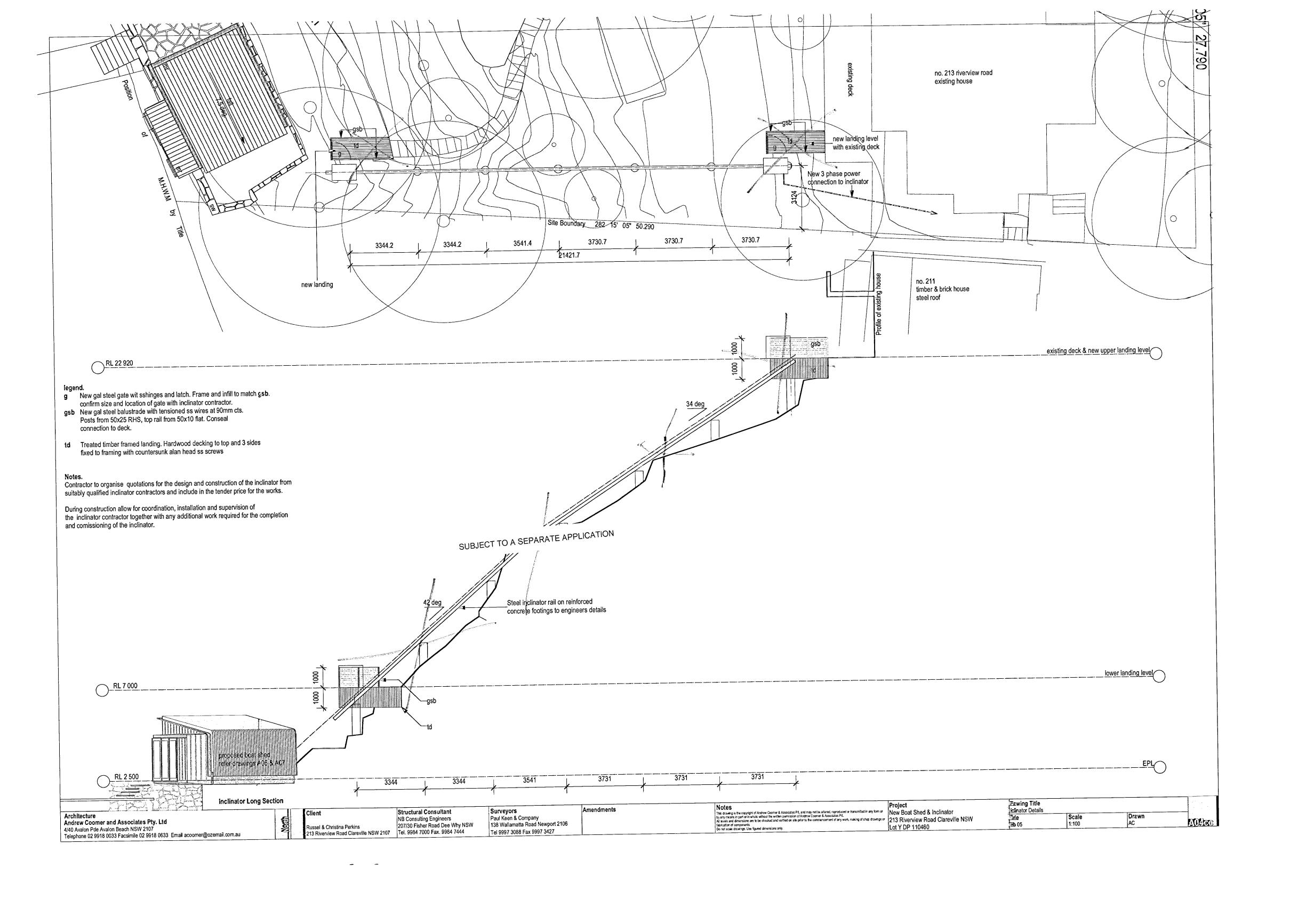


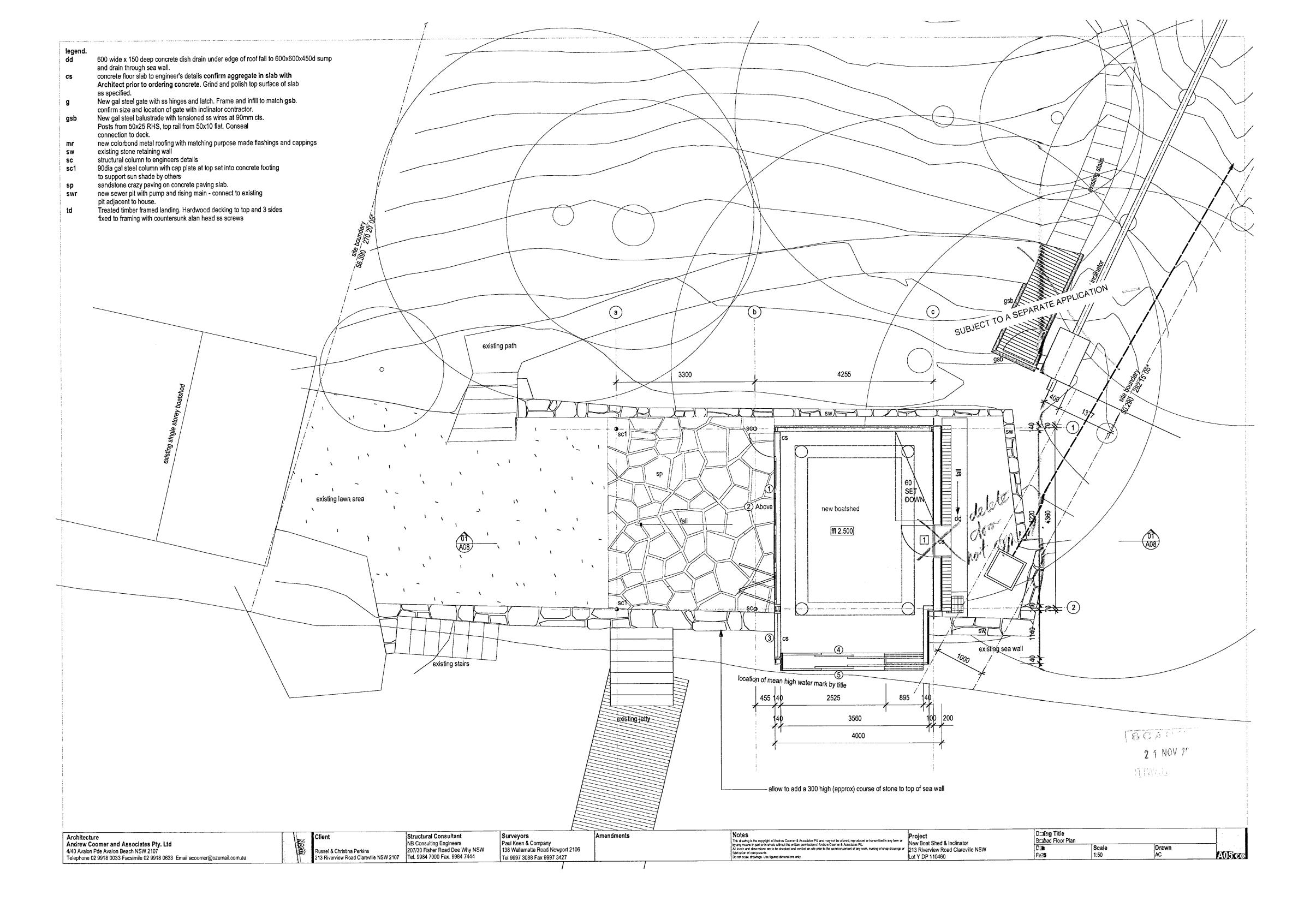
GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER FORM NO. 2 – To be submitted with detailed design for construction certificate

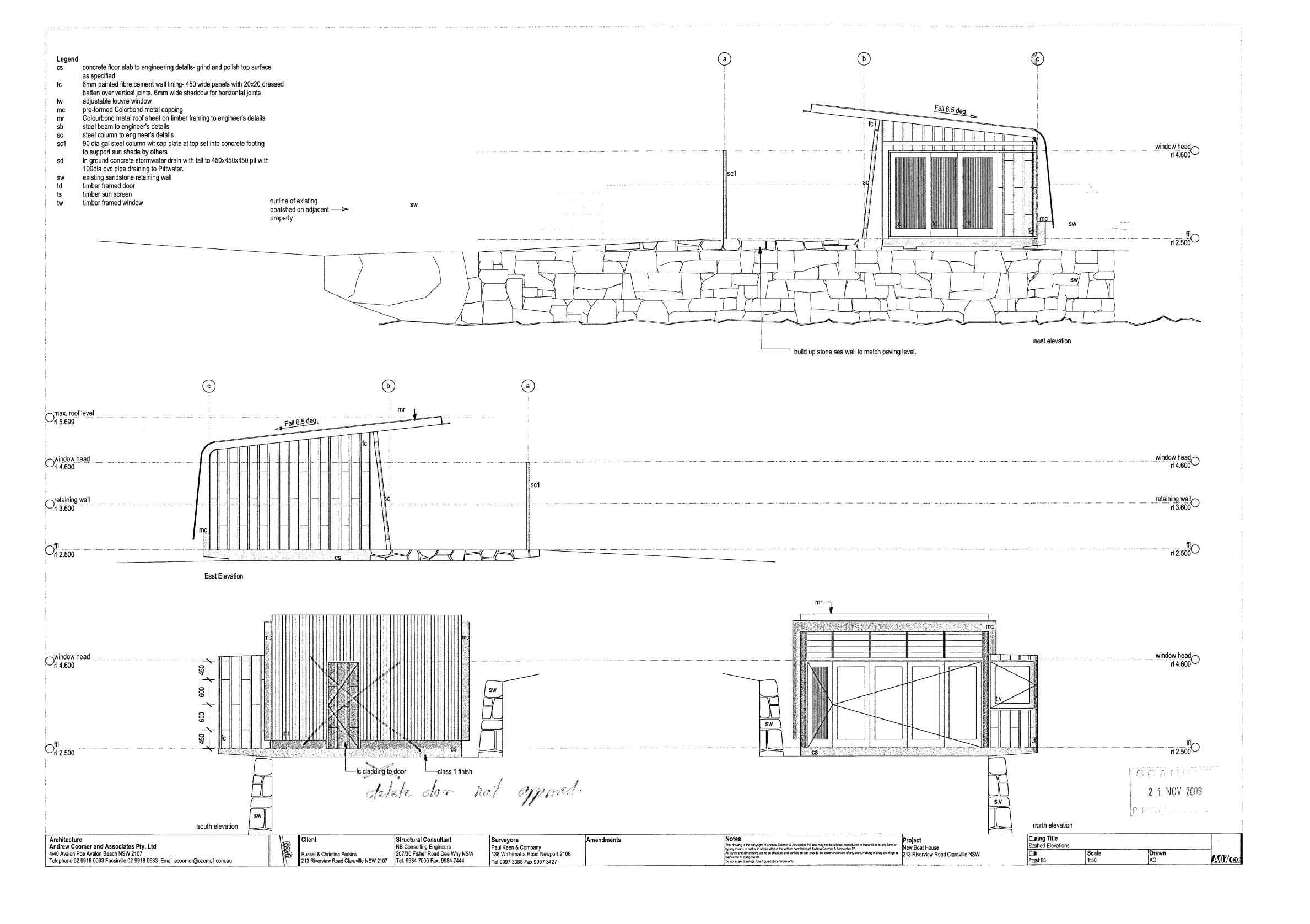
	Development Application for	
	Address of site 213 RIVERVIEW Rd Claveville	
Declaration	n made by Structural or Civil Engineer in relation to the incorporation of the Geotechnical issues into the project	design
1. Lucas	Molloy on behalf of Northern Beaches Consulting Engineers (trading or company name)	
on this the	27th October 2006	
above organ at least \$2n the Geotech	(date) I am a Structural or Civil Engineer as defined by the Geotechnical Risk Management Policy for Pittwater. I am authorismization/company to issue this document and to certify that the organization/company has a current professional indemnifulion. I also certify that I have prepared the below listed structural documents in accordance with the recommendation through Report for the above development Geotechnical Report Details:	y policy of
	Report Title: PROPOSED BOATHOUSE & MCLICATOR, 213 KINERVIEW RD, CLARCIA Report Date: 4/5/05 Author: 6. R. WILSON	CE .
		÷
ſ	Structural Documents list: No No 051201 501 & 502	
		•
certification addressed to	ware that Pittwater Council relies on the processes covered by the Geotechnical Risk Management Policy, including this as the basis for ensuring that the geotechnical risk management aspects of the proposed development have been adequote achieve an "Acceptable Risk Management" level for the life of the structure taken as at least 100 years unless otherwis	ately e stated
and justified	costletler XI. Lelle.	
	(signature)	
Declaration	n made by Geotechnical Engineer or Engineering Geolegist in relation to Structural Drawings	
viewed the a Geotechnica I am aware t the basis for achieve an **	and/or technically verified the above mentioned Geotechnical Report as per Form 1 dated and now certify to above listed structural documents prepared for the same development. I am satisfied that the recommendations ghal Report have been appropriate taken into account by the structural engineer in the preparation of these structural documents that Pittwater Council relies on the processes covered by the Geotechnical Risk Management Policy, including this certific remaining that the geotechnical risk management aspects of the proposed development have been adequately addressed "Acceptable Risk Management" level for the life of the structure taken as at least 100 years unless otherwise stated and pland that reasonable and practical measures have been identified to remove foreseeable risk.	ven in the ents. cation as 1 to
	Name 6 K WILSON	
	Chartered Professional Status	
•	Membership No.	1200
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· · · · · · · · · · · · · · · · · · ·	described on the structural drawings.	3 Q
Pittw	vater Council – Interim Geotechnical Risk Management Policy For Pittwater Council Policy – No 144 Page 202	
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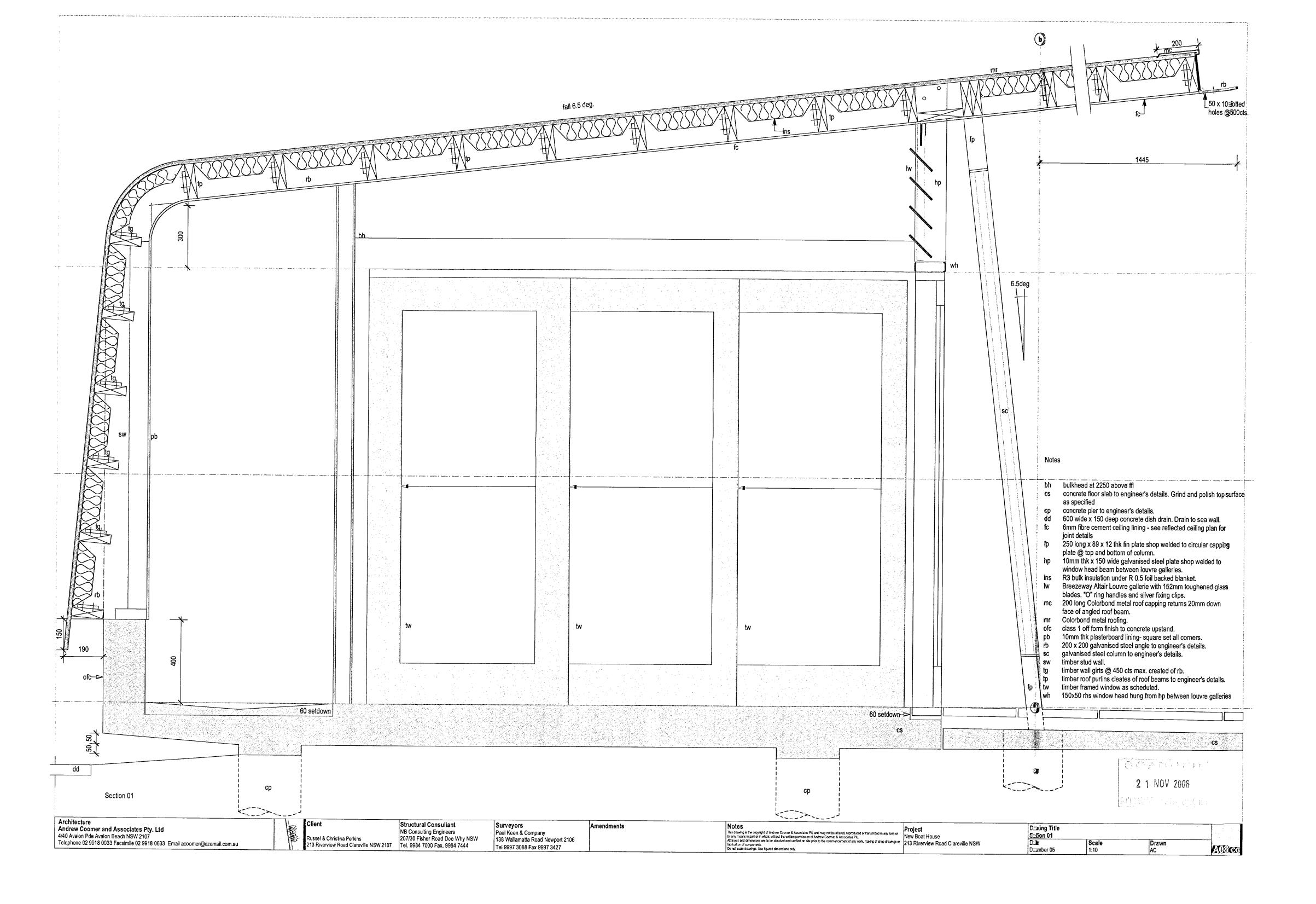














APPLICATION FOR A CONSTRUCTION

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I apply	for a Const	ruction Certific	ate to carry out l	buildina works a	s described in	this application	ı. I decla	re that all
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Signatu	ıre	1	<u> </u>			Date		
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SUBMISSION REQUIREMENTS

Α.	GENE	<u>KAL</u>	
Are th	ne plans	submitted with th	ne Construction Certificate Application in accordance with the Development Consent?
			Yes No 🗌
Have	all the c	onditions of Dev	elopment Consent relating to the issue of the Construction Certificate been fully complied with?
			Yes No 🗌
		answered NO 1 DGING YOUR A	to either of the above questions, then you will need to speak with the Accredited Certifier PPLICATION.
В. Д	ALL PE	ROPOSALS	(has the following required information been submitted?)
Yes	No	Not Applicable	In the case of an application for a Construction Certificate for building work:
d			Three (3) copies of detailed architectural plans and specifications
Image: Control of the			 The plan for the building must consist of a general plan drawn to a scale not less than 1:100 and a site plan drawn to a scale not less than 1:200. The general plan of the building is to: a) show a plan of each floor section b) show a plan of each elevation of the building c) show the levels of the lowest floor and of any yard or unbuilt on area belonging to than floor and the levels of the adjacent ground d) indicate the height, design, and full construction details e) indicate the provision for fire safety and fire resistance (if any)
			Where the proposed building work involves any alteration or addition to, or rebuilding of, ar existing building, all copies of the general plan are to be coloured or otherwise marked to the satisfaction of the Council to adequately distinguish the proposed alteration, addition o rebuilding with a separate letter listing the proposed changes being submitted.
T			 3 copies of a specification: a) to describe the construction and materials of which the building is to be built and the method of drainage, sewerage and water supply b) state whether the materials proposed to be used are new or second hand and give particular
			Where the proposed building work involves a modification to previously approved plans and specifications the general plans must be coloured or otherwise marked to the satisfaction of the Accredited Certifier to adequately distinguish the modification.
			If the proposed building work involves a modification to previously approved plans and specification which were subject of a Development Consent, has the original Development Consent been modified by Council?
			 Except in the case of an application for, or in respect of domestic building work: a) a list of any fire safety measures that are proposed to be implemented in the building or on the land on which the building is situated, and b) if the application relates to a proposal to carry out any alteration or rebuilding of, or addition to, an existing building, a separate list of such of those measures as are currently implemented in the building or on the land on which the building is situated. This list must specify the standard of design of each of those fire safety measures to which they were originally installed. c) This list must describe the extent, capability and basis of design of each of the measures concerned.
			Copy of BASIX Certificate & Report.
Image: second content			All other documentation to satisfy conditions of Development Consent.

HOME BUILDING ACT 1989 (as amended) OWNER/BUILDER REQUIREMENTS

Applicants for work at a residential property with a value of work over \$12,000 require insurance as specified in the Home Building Act 1989.

Owner Builders require Property Owner Builder's Permit issued by the Department of Fair Trading for all projects over \$5,000. In addition to this permit all projects valued in excess of \$12,000 may also require a contract of insurance under the provisions of the Home Building At 1989 as amended. This requirement will take effect should the property owner offer the property for sale in the ensuing period of 7 years.

Enquiries on any matters relevant to this section should be taken up with the Department of Fair Trading at Level 21, Astra House, 227 Elizabeth Street, Sydney (ph: 133220).

LONG SERVICE LEVY (applies to all classes of buildings)

A Long Service Levy at 0.35% of the cost of works is payable on projects valued \$25,000 or more. This sum can be paid directly to the Long Service Payments Corporation or to Council acting as an agent to the Corporation. Partial exemption from the levy may be granted to non profit organizations, churches and to owner/builders. The levy may also be paid in instalments. Application forms for these exemptions are available from Council but all enquiries in this regard should be address to the Long Service Payments Corporation.

THE CONSTRUCTION CERTIFICATION CANNOT BE ISSUED UNLESS THE LONG SERVICE LEVY AND HOME BUILDING ACT 1989 INSURANCE (APPLICABLE TO RESIDENTIAL PROPERTIES) HAVE BEEN PAID, OR EVIDENCE OF THE EXEMPTION PROVIDED TO COUNCIL.

PARTICULARS OF THE PROPOSAL What is the area of the land (m2)? Gross floor area of building (m2) as proposed: 1180001 25 m2 BUKEVIEW What are the current uses of all or parts of the building(s)/land? BIAT SHOO PESIDENTIA Durun What is the gross floor area of the proposed addition or new Does the site contain a dual occupancy? building (sq metres)? 25 m2 W What are the proposed uses of all parts of the building(s Number of pre-existing dwellings: RESIDENCE-+ BOATSHEN Number of dwellings to be demolished: How many dwellings proposed? NONE How many storeys will the building consist of? Will the new building be attached to the existing building? Will the new building be attached to any new building? MATERIALS TO BE USED The following information must be supplied for the Australian Bureau of Statistics: Place a tick ($\sqrt{}$) in the box which best describes the materials the new work will be constructed of: ROOF FRAME FLOOR. WALLS Timber Aluminium Brick veneer Concrete Steel Concrete Full brick Timber Other Concrete tile Single brick Other Unknown Concrete block Unknown Fibrous cement Fibreglass Concrete/masonry Masonry/terracotta shingle Concrete Tiles Steel Fibrous-cement --- ---State Hardiplank Steel Terracotta tile Timber/weatherboard Other Cladding-aluminium Unknown Curtain glass

Other

Unknown

Tendering, pre contract information and specification for the construction of a new Boatshed.

Site 213 Riverview Road Clareville NSW

Proprietors

Michael Hill

Date

January 2006

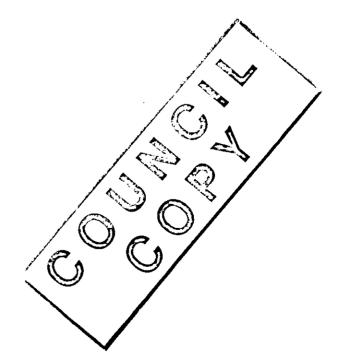


TABLE OF CONTENTS

TENDER DOCUMENTS

Document No	Document Name	Page No
00200	Information For Tenderers	
00210	General Conditions of Tendering	
00230	Existing Conditions At Site	
00300	Tender Form	

CONTRACT PRELIMINARIES

Document No	Document Name	Page No
00500	Instrument of Agreement	
00630	Warranties	
00650	Certificate of Insurance	
00800	Supplementary Conditions of Contract	
00820	Additional Articles	
00860	Drawings	
00870	Schedules & Tables	
00900	Addenda & Modifications	

TRADE SECTIONS (SPECIFICATIONS)

Document No 02220	Document Name Demolition	Page No
02315	Excavation & Fill	
02510	Water Distribution	
02530	Sanitary Sewerage, plus schedule	
02560	Gas Installation	
02630	Storm Drainage	
03310	Concrete	
05100	Structural Steel	
05510	Metal Stairs & Ladders	
05580	Architectural Metalwork & Whitegoods, plus a schedule	
06100	Carpentry, plus a schedule	
06165	Fibre Cement Products	
06400	Joinery-site built	
07200	Thermal Insulation	
07610	Metal Roofing, Siding & Plumbing	
08250	Doors & Door frames, plus schedule	
08550	Timber Windows & Glazing	
08710	Door Hardware, plus schedule	
09250	Plasterboard	
09300	Ceramic Tile	
09500	Ceilings	
09648	Wood Strip Flooring	
09910	Painting	
16150	Low Voltage Lighting	
16350	Electrical Distribution, plus schedule	

1. The Project Construction of a new boatshed 213 Riverview Road Clareville NSW

2. The Contract

Fixed lump sum not subject to rise and fall

3. Conditions of Contract

ABIC SW-1 2002 Simple works contract

This is a 'lump sum' contract, intended for building works (including alterations) of a relatively small scale, between a proprietor and a builder where an Architect has prepared the contract documents and is providing contract administration services.

4. Tenders

The Proprietor reserves the right to reject the lowest or any tender or an otherwise conforming tender.

Preference will be given to tenders with a brief construction period.

Comply with AS 4120 1994 Code of tendering.

5. Tender Documents

Available without fee from the Architect. Further copies will be made available if required at \$100 per set.

6. Alternative Proposals

Submit tenders in accordance with the tender documents.

Alternatives may be considered.

7. Permission to Visit the Site

Tenderers may visit the site accompanied by the Architect. Refer Clause 9.

8. Schedule

Submit a statement of the number of working days required from start to finish date of the contract with Proprietor Occupancy date noted.

9. Tender Enquiries

All Enquiries during the tender period should be directed to Andrew Coomer.

10. Consultants

For this Project, the Proprietor has appointed the following Consultants:

Comply with AS 4121-1994 Code of Ethics and Procedures for selection of Consultants.

Architects Name of Contact Tel: 02 9918 0033
Andrew Coomer & Associates Andrew Coomer Fax: 02 9918 0633
Mobile: 0414 776 063
E-mail address

acoomer@bigpond.net.au

Structural EngineerName of ContactTel:9984 7000NB Consulting EngineersLucas MolloyFax:9984 7444

Mobile:

E-mail address :

SurveyorName of ContactTel:9997 3088Paul Keen & CoPaul KeenFax:

Mobile : E-mail address :

11. Annexure (or Appendix) to General Conditions of Contract

Section 00210 General Conditions of Tendering

1. Tender Form

Refer Document 00300 "TENDER FORM"

2. Tender Documents

The tender documents include the "The Conditions" or "the Agreement" or "General Conditions of Contract", Tender Form, and Specification, Drawings, Schedules and any other documents issued by the Architect for the purpose of tendering (available at point of issue of documents). No explanation or amendment to the tender documents shall be recognised unless in the form of written addendum issued by the Architect.

3. Tenderer to Inform Himself and Subcontractors

The Tenderer is deemed to have:

- A Examined the tender documents, the site and its surroundings and other information made available.
- B. Examined information relevant to the risks, contingencies, and other circumstances having an effect on his tender and which is obtainable by the making of enquiries.
- C. Satisfied himself as to the correctness and sufficiency of his tender and that his tender covers the cost of complying with the obligations of the tender documents.
- D. Advised suppliers and sub-contractors of the requirements of the Preliminary and trade sections of the Specifications.

4. Discrepancies, Errors and Omissions in Tender Documents

If a Tenderer finds any discrepancy, error or omission in the tender documents, notify the Architect, in writing, 5 days before the date and time for closing of tenders.

5. Submission of Tender

- A. Submit tender only on the tender form provided, Document 00300
- B. Include an address for service of notices for the purpose of this tender and subsequent contact.
- C. Sign the tender form, or if the Tenderer is a corporation or company sign the tender with company seal.
- D. The tender shall be for the whole of the work described in the tender documents.
- E. Do not alter or add to tender documents except as required by these General Conditions of Tendering.

6. Lodgement of Tenders

- A. Lodge tender in a sealed envelope marked with the name of the Project sent by pre-paid post to, the Architects office by the date and time for closing of tenders. See "C" below.
- B. Notwithstanding sub-clause A, facsimile, telegraphic or telexed tenders received by the date and time for closing of tenders may be admitted for consideration subject to the concurrent submission of a written tender. Oral tenders will not be received.

C. Tenders Close

Thursday 31st March 2005

7. Informal Tenders (Non-conforming Tenders)

Tenders which do not comply with the requirements of, or which contain provisions not required or allowed by the tender documents, will be declared informal.

8. Trade Names

Trade or proprietary names, brands, catalogue or reference numbers are specified in the tender documents. A successful tenderer may offer material or equipment of similar characteristics or type, quality, appearance, finish, method or construction and performance, after the Letter of Acceptance of tender has been issued.

9. Customs Duties

The tender shall include customs duty and other similar charges applicable to imported materials, plant and equipment required for work described in the tender documents.

10. Pre-requisites to Acceptance

- A. Notwithstanding other requirements of the tender documents, the Proprietor or Architect may require a Tenderer to submit additional information to allow further consideration of his tender.
- B. Should the Tenderer fail to submit the information so required by the date and time stipulated by the Proprietor or Architect the tender may be treated as informal.

11. Acceptance of Tender

	A tender shall not be deemed to have been accepted unless and until a Letter of Acceptance is handed to the Tenderer or is sent by pre-paid post to, or is left at, the address stated in the tender form for service of notices.
íá	tshed 213 Riverview Road Clareville

Section 00230 Existing Conditions at Site

Refer to: Site survey by Paul Keen & Co Surveyors. Geotechnical report by Douglas & Partners.

Section 00630 Warrenties

Warranty Requirements

- The Builder or other approved Warrantors shall provide written warranties where so specified elsewhere in this specification. Each warranty shall be in approved form and shall specifically include the provisions required in writing.
- A. B.
- C. Warranty periods shall commence from the date of the Notice of Practical Completion.
- D. The Builder is to advise in their if any of the periods below can not be met.

SECTION NO. 02315 02510 02530 02560 03310 05100 05510 05580 06100 06165 06400 07610 08250 08550 08710 09250	SECTION NAME Excavation & Fill Water Distribution Sanitary Sewerage Gas Installation Concrete Structural Steel Metal Stairs & Ladders Architectural Metalwork, includes a schedule Carpentry, includes a schedule Fibre Cement Products Joinery (Site Built) Metal Roofing, Siding & Plumbing Doors & Door Frames, includes schedule Timber Windows & Glazing Door Hardware, includes schedule Plasterboard	NO. OF YEARS 5 YEARS 5 YEARS 5 YEARS 5 YEARS 28 DAYS 10 YEARS 10 YEARS 20 YEARS 5 YEARS
08710	Door Hardware, includes schedule	5 YEARS

Section 00630

Certificate of Insurance

Insurance certificates as required by the contract are to be submitted by contractor to the proprietor.

Submit each certificate to the proprietor before commencement of work.

Insurance of the works should include but not be limited to; Cost of demolition and removal of rubbish. Restoration of existing or built structures Percentage to cover fees of consultants. Percentage to cover escalation costs.

Builders Warranty Insurance for the contract works.

Section 00800

Supplementary Conditions of Contract

1. Information to Subcontractors, Suppliers and Installers

Advise Sub-contractors and suppliers and installers of material of the requirements of these Supplementary Conditions of Contract.

2. Amount of Security (Performance Bond)

See Annexure or appendix to General Conditions of Contract. Refer Document 00610.

3. Interpretation of Drawings

Check dimensions on site before proceeding with the work of the contract. Notify Architect of omission or conflict in drawings and their relation to specifications.

4. Construction Progress Bar Graph

Within fourteen (14) calendar days after the date of Letter of Acceptance of tender, submit to the Architect a detailed chart of the plan of progress, in Bar Graph form. For each item of work provide graph showing planned progress with planned monthly quantities and with space or other provision for entering actual progress. The Architect may require the Builder to provide an amended bar graph within seven (7) days of being requested to do so.

Submit bar-graph at monthly intervals showing actual progress.

5. Sub-Contractors and Suppliers

Within seven days of receipt of the Letter of Acceptance, supply to the Architect a complete list of Sub-Contractors and Suppliers proposed for the Works. The Proprietor, through the Architect, reserves the right to reject any so listed.

6. Indemnity of Proprietor

- A. Indemnify, and keep indemnified the Proprietor against claim, demand, action, suit or proceeding that may be brought or made against the Proprietor by any other person who has entered into a contract with the Proprietor to execute work associated with the project.
- B. Submit evidence of such insurance in respect of loss, damage or expense incurred by that other person by reason of an act, default or neglect of the Builder in the performance of his obligations under the contract or arising out of or as a consequence of delay by the Builder in executing or failing to complete work under the contract and also from costs and expenses that may be incurred by that other person in connection with such claim, demand, action, suit or proceeding.
- C. Do not proceed with work under the contract until evidence of Indemnities and Insurances required herein, is submitted in writing to the Architect.

7. Approvals, Services, Fees and Tax

- A. The following documents have been submitted by the Proprietor, via the Architect and fees paid for Planning permit and/or D.A.
 - **Building Approval (Construction Certificate)**
- B. Be responsible for the connection of services, water, sewerage, drainage, electricity and gas etc. Apply for such permits, pay for fees and charges levied by relevant bodies for such connections.
 Issue necessary notices to such bodies. Obtain and pay for scaffolding permit.
- C. Pay Tax on items where such tax is applicable.
 - If Tax is not applicable, request from the Proprietor, via the Architect, a Tax exemption certificate for use when ordering specified materials.
- D. Pay fees, where applicable, relating to "Workplace health and Safety" Acts and other state or local government acts.

8. Site Control

- A. Be responsible for activities on the site including providing access for authorised persons and restricting access by unauthorised persons. Take necessary precautions to secure the assets of the Proprietor.
- B. Except as otherwise provided in the contract, delivery of materials for the works, space for storage of same and for building sheds, office and workshops will be allowed only as directed by the Builder.
- C. Do not store waste building materials and flammable liquids in the building.
- D. Take proper precautions to keep poisons and other injurious substances in places secured against access by unauthorised persons.

9. Compliance with Ordinances, etc.

Whenever work or type of plant or machinery, etc. is required either by the specification or by the relevant statutory authority, provide full details of such work, plant, etc. to the relevant statutory authority and make such applications, etc. as may be

required within two weeks of receipt of Letter of Acceptance.

In such cases, approval given by the Architect to data submitted by the Builder will not necessarily imply that such data meet the requirements of the relevant statutory authority.

10. Site Amenities and Meetings

- A. Provide statutory and necessary amenities and sanitary facilities for site workers where such are not already available in suitable locations. Maintain in working condition and clean daily. Comply with Union requirements.
- B. Provide accommodation on the site of sufficient size to hold regular site meetings of Building Foreman, Architect and
- C. Arrange for site meetings to occur at regular intervals throughout the contract period. Advise Architect and Consultants of meeting times, keep accurate records of each meeting, and issue to each Attendee a copy of the record within three days of each meeting.

11. Temporary Fire Extinguishers

Maintain fully charged, and accessible fire extinguishers as are necessary for the care and safety of the Works, as required by local Fire Authority.

12. Telephone and Fax

Provide either a mobile telephone or a telephone service and pay costs of installation, rental, calls and removal. Provide fax machine under similar conditions.

13. Light and Power

Provide temporary electric light and power supply during construction and pay charges connected therewith. Provide sufficient of each as required for execution of work specified.

14. Water

Provide and maintain a temporary water supply sufficient for executing the work under the contract. Disconnect and clear away same on completion and pay costs and charges in connection therewith.

15. Project Identification Sign

Provide and erect a project identification sign in accordance with the DA Conditions and erect same on the site as directed and maintain same in good condition throughout the currency of the contract. The sign shall remain the property of the Builder. Remove same from the site on completion of the Works.

16. Commencement of Work

Notwithstanding that possession of the site has been given to the Builder, the Builder shall not be permitted to commence work on the site until he has provided:

Insurances: refer Clause 6 above and document 00650 certificate of insurance.

17. Adjacent Premises

Ensure that the work is carried out without damage to and with a minimum of nuisance or annoyance to the occupants of adjacent premises.

18. General Attendance on Sub-Contractors

General attendance shall include taking delivery, assisting to unload, storing and protecting Sub-Contractor's materials and for allowing Sub-Contractors ample working space, free use of water, electricity (unless otherwise described), scaffolding, hoists and ordinary plant, etc., and messing and sanitary accommodation and for cutting away, building in and protecting finished work and making good.

19. Precautions in Carrying Out Work Under the Contract

Unless otherwise specified in the contract, observe, in the absence of statutory requirement to the contrary, the relevant current Australian Standard published by Standards Australia relating to storage, transport, use of materials, explosives, fire precautions in arc or flame cutting flame heating and arc or gas welding operations, plant and equipment, work processes and safety precautions.

20. Interference with Existing Services

Notify the Architect of connection, disconnection or interference with existing services.

Repair, to the satisfaction of the Architect, damage which occurs to services during currency of the contract.

21 Damaged Services

Where existing services at or adjacent to the site are in non-optimum condition, arrange for an inspection by the Architect and New Boatshed 213 Riverview Road Clareville

the Officer-in-charge of the area responsible for such service. At such meeting, record the condition and follow instructions when issued in writing by the Architect.

22. Solid, Liquid and Gaseous Contaminants

- A. Be responsible for the proper disposal of solids, liquid and gaseous contaminants.
- B. Discharge gaseous contaminants in such a manner that they will be sufficiently diluted with fresh air that the toxicity will be reduced to an acceptable level.
- C. Subject to statutory and local requirements, liquid contaminant may be diluted with water to a level of quality acceptable in the sewer system or contained in approved vessels for disposal at sites approved by the relevant Authority.
- D. Dispose of solid contaminants by removal from the site to locations approved by the relevant Authority.

23. Disposal of Refuse

Refuse from construction operation (including food scraps and the like) shall be removed from the site at frequent intervals.

24. Explosive Devices

Powder powered fixing tools may be used.

25. Dimensioning

Do not scale drawings which are clearly diagrammatic and/or marked 'not to scale' or NTS.

27. Shop drawings

Shop drawings mean complete drawings showing details of fabrication, assembly, installation, fixing and waterproofing methods of specific items or components, and shall include necessary explanatory notes and specifications.

28. Care of the Works

- A. Delivery, Handling and Storage: Deliver, handle and store products in accordance with manufacturer's recommendations and by methods and means which will prevent damage, deterioration, and loss including theft. Control delivery schedules to minimise long-term storage of products at site and over-crowding of construction spaces. In particular, co-ordinate delivery and/or installation to ensure minimum holding or storage times for products recognised to be flammable, hazardous, easily damaged, or sensitive to deterioration, theft and other sources of loss.
- B. Limiting Exposure of Work: To the extent possible, through control and protection methods, supervise performance of work in a manner which will ensure that none of the work, whether completed or in progress, will be subjected to harmful, dangerous, or damaging exposures during construction period.
- C. Cleaning and Protection of Finished Work: General: during handling and installation of work as project proceeds, clean site and protect work in progress and adjoining work on a basis of perpetual maintenance. Apply suitable protective covering on newly installed work where required to ensure freedom from damage or deterioration at a time of Practical Completion; otherwise, clean and perform maintenance on newly installed work as frequently as necessary throughout remainder of construction period. Adjust and lubricate operable components to ensure equipment operates as intended.

29. General Product Compliance

- A. Provide products which comply with requirements, and which are undamaged and unused at time of installation, and which are complete with accessories, trim, finish, features required by regulation, and other devices and details needed for a complete installation and for intended use and effect.
- B. Standard Products: where available, provide standard products of types which have been produced and used previously and successfully on other projects and in similar applications.
- C. Continued Availability: where additional amounts of a product, by its application, are likely to be needed by Proprietor at a later date for maintenance and repair or replacement work, provide a standard, domestically produced product which is likely to be available to Proprietor at such later date.
- D. Manufacturer's recommendations: where installations include manufactured products, comply with manufacturer's current and applicable recommendations for installation, to whatever extent these are more explicit or more stringent than applicable requirements indicated in contract Documents.
 - At completion of project, provide to the Architect a copy of each set of Manufacturer's recommendations which have been used in the work of each trade.
- E. Manufacturer's Data Sheets: where this specification requires, obtain two copies of the current data sheets issued by the manufacturer of specified component. Retain one copy for use on site and submit the other to the Architect as a record of instructions followed on the site.

30. Builder's Quality Control

- A. Inspect each item of materials or equipment immediately prior to installation and reject damaged or defective items.
- B. Provide attachment and connection devices and methods for securing materials properly as they are installed, true to line and level, and within recognised industry tolerances unless otherwise indicated. Allow for expansion and building movements. Provide uniform joint widths in exposed Work, organised for best possible visual effect. Refer questionable visual effect choices to the Architect.
- C. Re-check measurements and dimensions of the Work as an integral step before starting each installation.
- D. Install work during conditions of temperature, humidity, exposure and weather which will ensure the best possible results for each part of the work, or component or treatment as necessary to prevent damage and deterioration.
- E. Co-ordinate enclosure and closing-in of work with required inspections and tests, so as to avoid necessity of uncovering work for that purpose.

31. Quality Assurance

Provision of a formal quality assurance system is not required.

32. Material/Colour Selections

- A. The Architect will prepare a master Colour Schedule indicating the required colour, finish, pattern, material, texture and other pertinent information in connection with interior and exterior finishes.
- B. Submit colour chips for items having colour unless otherwise directed or approved by Architect.
- C. To facilitate the preparation of such a schedule, submit within fifteen days following date of award of contract, unless otherwise extended by the Architect, the names and products of those manufacturers whose products are proposed for use within the framework of the specifications wherever colour, finish, pattern, texture and other related information is a consideration.

33. Miscellaneous Completion Procedures

- A. Removal of Protection: except as otherwise indicated or requested by Architect, remove temporary protection devices and facilities installed during course of the work to protect previously-completed work. Where secured to exposed-to-view new work or existing to remain, remove evidence of protection devices. Remove protection within 5 days before Practical Completion.
- B. Trade Cleaning: as each trade completes its work in each area of the building, the Sub-Contractor is required to be responsible for "broom clean" standard of cleaning in that area.

34. Final Cleaning

Final Cleaning: provide final cleaning of the work of this specification, at time indicated, consisting of cleaning each surface of unit of work to normal 'clean' condition expected for a first class building cleaning and maintenance programme.

Examples of required cleaning are:

- A. Remove labels which are not required as permanent labels.
- B. Clean transparent materials, including mirrors and window/door glass, to a polished condition, removing substances which are noticeable as vision-obscuring materials. Replace broken glass and damaged transparent materials.
- C. Clean exposed exterior and interior hard surfaces finished, to a dirt free condition, free of dust, stains, fingermarks, films and similar noticeable distracting substances. Except as otherwise indicated, avoid disturbance of natural weathering of exterior surfaces. Restore reflective surfaces to original reflective condition.
- D. Wipe clean surface of mechanical and electrical equipment, including lift and similar equipment; remove excess lubrication and other substances.
- E. Remove debris and surface dust from limited access spaces.
- F. Clean concrete floors broom clean.
- G. Vacuum clean carpet and similar soft surfaces.
- H. Clean plumbing fixtures to a sanitary and polished condition, free of stains including those resulting from water exposure.
- I. Clean light fixtures and lamps so as to function with full efficiency.
- J. If permanent lighting fixtures have been used for construction purposes replace globes with new.
- K. Clean project site, including planted sections and footpaths, of litter and foreign substances. Sweep paved areas to a broom clean condition; remove stains, petro-chemical spills and other foreign deposits.
- L. Label keys for locks accurately and provide in duplicate to the Architect at the completion of the project.

34a Clean Site and Access Roads

Be responsible for maintaining clean roads and access. Remove and clean away mud, building debris from footpaths, gutters, drains, walls etc. when such occurs.

35. Warranties

Provide written warranties as set out in DOCUMENT 00630 WARRANTIES

Section 02315 Excavation and Fill

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to:

Prepare site, excavate for paving, drains, pits, foundations, slabs. Remove trees and other vegetation, including roots, where they prevent building work, paving, trenches etc.

Refer to geotechnical report for engineering requirements.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work Water Distribution, Sanitary Sewerage, Storm Drainage, Pavements, Concrete.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

AS 1289 Methods of testing soils. AS 3660 Termite treatment.

AS 3798 1996 Guidelines on earthworks for commercial and residential developments.

AS/NZS 4200 1994 Pliable building membranes and underlays.

Comply with particular specifications in Building Regulations and/or Local Council publications.

Definitions:

Rock: natural or artificial material encountered in the excavation which cannot be removed until broken up by mechanical means such as rippers, jack-hammers or percussion drills.

Rippable Rock: Means rock which can be removed by a single tine, "D9" ripper.

Non-Rippable Rock: Means all other rock.

Other than Rock: other material encountered in excavation.

Sub-Grade: The natural ground below the excavations

Filling: A general term for material spread and compacted over the sub-grade to make up levels to the underside of the base.

Sub Base: Selected filling spread and completed over sub-grade to compacted over sub-grade to make up levels to the underside of the base.

Base: A selected filling layer spread and compacted to form an acceptable working surface directly under the building.

Comply throughout with the current edition of the Building Code.

MATERIALS TO BE USED

ltem

Description

Manufacturer

Termite control:

Physical barrier of stainless steel mesh

Termi-Mesh pty. Itd

Rock excavation & removal

Filling

Hardcore:

15 to 40mm, 100mm thick

Fine Crushed Rock:

5 to 15mm, 50mm thick Clean, salt free, 50mm thick

Sand: Waterproof membrane:

0.2mm thick plastic film:

Back filling:

Approved clean excavated inorganic material

PREPARATION Inspect conditions at site before starting work

Clear site under building and paving of plants, trees, rocks shown on plan.

ON-SITE ACTIONS Start of work means total acceptance of conditions

- -Below slabs on ground : refer to Structural Engineers details
- -Below footings, beams and other structural elements refer to Structural Engineers details.
- -For pier footings below columns and other structural elements refer to Structural Engineers details. Allow for average pier depths of 2000mm and provide a \$ rate per metre for additional depth.

Refer to Geotechnical report for excavation requirements and inspections.

In service trenches: 1:2:4 concrete/approved compacted pipe bedding material.

Excavation for strip footings and edge beams, paving, water and piped supply and drains, pits. Provide fill and compact in 150 mm layers, to 95% of maximum density, by vibrating or watering. Protect excavations from damage. Maintain excavations free of water. Install waterproof membrane over sand. Seal laps. Take underlay in walls to level of top of slab. Seal service pipes. Inspect and repair membrane before concrete pour.

Apply termite protection by an approved Termi-Mesh contractor in accordance with manufacturers details.

Section 02510 Water distribution

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to:

Supply and install pipes to distribute water from water main supply to each required outlet.

Supply and install pipes from hot water heater to each required outlet.

Contractor to confirm prior to commencement that pipe sizes are suited to site water pressure and if existing water service pipe has sufficient capacity to service the boat shed..

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work Sanitary Sewerage, Concrete, Carpentry, Plumbing fixtures and equipment.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

AS/NZS 1260 PVC Pipes & fittings. AS 1432 Copper tubing for plumbing, gas fitting.

AS 3500 National plumbing and drainage code.

Comply throughout with the current edition of the Building Code.

MATERIALS TO BE USED

Item

Description

Size

Cold water pipes

Copper

Size from main: in accordance with AS3500 Size of branches: in accordance with AS3500

Hot water pipes:

Prelagged copper

in accordance with AS3500

PREPARATION Inspect conditions at site before starting work

Prepare trenches and paths of pipes through structure.

Builder to form cut outs of minimum size to take pipes. Not to be done by plumber.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Coordinate with others trades, connect supply pipes to fittings. Conceal where possible. Ensure correct pipe sizes and connect with complete seal. Jointing of pipes: On manufacturer's advice, select from: Capillary, brazed, compression, pushfit, solvent-welded. Chrome plating: all exposed pipes. Obtain approval certificate on completion. Cover no pipes until local authority has issued certificate. Protect installation until completion of project.

Section 02560 Gas Installation

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to:

Connection to supply main pipe or to onsite gas tank, distribution material, fittings valves and gas fuelled water and air heaters, cooking equipment etc. Note refer to Section 00820 Additional Articles for items to be supplied by proprietor.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work Sanitary Sewerage, Concrete, Carpentry, Plumbing fixtures and equipment.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

AS/NZS 1260 PVC Pipes & fittings. AS 1432 Copper tubing for plumbing, gas fitting.

AS 3500 National plumbing and drainage code.

Comply throughout with the current edition of the Building Code.

All pipe sizes to be in accordance with Australian Standards and appliance requirements.

MATERIALS TO BE USE

Item	Description	Manufacturer/Sup	plier	Comments
Gas meter	Existing			
Pipe from main	Copper			
Pipe from storage tank	Copper			
Branches to heater	Copper			
Water heater	Instantaneous externally mounted	Rinnai Infinity 25 ex	cternal	confirm location with Architect
Air heater	By Proprietor			
BBQ	By Proprietor			
Gas cooker	Bench mounted cooktop	Miele	Supplied	and installed by builder

PREPARATION Inspect conditions at site before starting work

Prepare trenches and paths of pipes through structure. Builder to form cut-outs of minimum size to take pipes. Not to be done by plumber.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Coordinate with others trades, connect supply pipes to fittings. Conceal where possible. Ensure correct pipe sizes and connect with complete seal. Obtain an approval certificate on completion. Cover no pipes until local authority has issued certificate. Protect installation until completion of project.

Provide 1 wall/floor mounted gas outlet to external paved area. Final location of each outlet to be confirmed with Architect prior to commencement.

Section 02630 Storm Drainage

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to:

Supply and lay a complete system of site storm water drainage including agricultural drains, drains below slabs and pavements, retaining wall drains, culverts, pits, frames, manhole covers.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work

Sanitary Sewerage, Concrete, Concrete Pavement, Masonry Pavers. Excavation & Fill, Bituminous Concrete Pavement.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

AS 1379 1997 Specification and supply of concrete. AS 3500.3 Storm water drainage. AS 3500.3.1 1998 Performance requirements. AS/NZS 3500.3.2 1998 Acceptable solutions.

Comply throughout with the current edition of the Building Code.

MATERIALS TO BE USED

Description Item UPVC stormwater grade pipes: Stormwater pipes Slotted UPVC with filter fabric laid in aggregate bed Agricultural drains:.... Concrete or plastic with cast iron or gal steel grate Pits:.....

PREPARATION Inspect conditions at site before starting work

Form straight and true trenches 600mm clear of walls, maintain sides, and free from water. Form trenches and bedding to provide constant falls as approved by the local authorities. Prepare trenches and paths of pipes through structure. Builder to form cutouts of minimum size to take pipes. Not to be done by plumber.

After inspection (and testing) where required, back-fill with material approved by Local Council Engineer and Architect.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Ensure correct pipe sizes. Provide upstands to and connect to bottom of downpipes. Provide inspection openings where authority requires(usually at 6 metre intervals), bends and junctions. Provide complete seals at junctions and ends in accordance with manufacturers written instructions.

Arrange for inspection by and obtain approval certificate from local authority. When issued, back fill with material approved by authority. Remove debris and clean areas beside excavation for drains.

Drain stormwater from dishdrain at rear of boatshed into stormwater pit and then thru sea wall to Pittwater..

Section 03310 Concrete

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to:
Supply and install termite control, concrete, reinforcing steel, formwork, for strip footings, floor slabs, paving, pits, curbs etc.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work Excavation & Fill, Storm Drainage, Sanitary Sewerage, Pavements, Concrete screeds.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

SAA HB64 Guide to concrete construction. AS 1012 Testing concrete. AS 1304 1991 Welded wire reinforcing fabric for concrete. AS 2870 1996 Residential slabs & footings. AS 3600 1994 Concrete structures.

AS 3610 1995 Formwork for concrete. AS/NZS 3727 Guide to residential pavements.

Comply throughout with the current edition of the Building Code.

MATERIALS TO BE USED

Refer to Structural engineers specifications and details

PREPARATION Inspect conditions at site before starting work

Use new form ply only. Locate joints in formwork evenly around the edge of the slab cover formwork joints with 20x20 smooth triangular beading. Prepare surfaces to receive concrete smooth class 2 finish, clean & stable under concrete load.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Arrange for installation of pipes, cables, conduits etc.. Over prepared surface, install WP membrane. Place reinforcement, secure in place & prevent movement during pour, maintain required concrete cover.

Comply with structural engineer's requirements for joints, splices etc. of reinforcement.

Finish exposed floor surfaces: steel trowel. Provide setdowns for concrete screeds. Provide fall to outlets: See Schedule of Finishes. Cure finished slabs for 5 days with plastic film secured in place. Use packing sand for curing concrete paving. Keep damp for 5 days. Slump Tests: Provide and pay for slump test reports 80-100mm slump: one on first batch and one for every 15 cubic meters of concrete delivered thereafter. Tests and rejection criteria in accordance with AS 3600. Vibrate concrete to achieve compaction. Do not "travel" vibrators. Strip formwork in accordance with Table in AS 3610 "Minimum Stripping Times"

Polished concrete finish.

The concrete shall incorporate 90% 10mm basalt aggregate (blue metal) and 10% 8mm river gravel.

Formwork shall be filled to the intended level and concrete shall be levelled struck and screeded without introducing hollows. Any hollows or depressions shall not be filled with slurry but must be back rolled and screeded with aggregate and paste to ensure a monolithic mass.

Finish slab by machine trowel.

Honing the slab shall be undertaken only after the concrete has been cured. Expose concrete to a depth of 3-5mm. Grind slab to a 400 grit fineness and seal with a penetrating sealer and cure to manufacturers recommendations.

Section 05100 Structural Steel

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to:
Supply, fabricate apply surface treatment, anchor bolts and other attachments, permanent grouting.
Supply and submit shop drawings to Superintendent. Do not commence fabrication without approved shop drawings.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work Concrete, Wall Construction, Roof construction, Painting.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

SAA HB48 1993 Steel Structures Design. AS 1538 1988 Cold formed steel structures code AS/NZS 1554 Structural Steel Welding. AS 1627 Metal Finishing - Preparation & Pretreatment. AS 4100 1990 Steel Structures. AS/NZS 4680 1999 Hot-dip galvanised (zinc) coatings on fabricated ferrous articles.

Comply throughout with the current edition of the Building Code.

PREPARATION Inspect conditions at site before starting work

Advise Structural Engineer when fabrications may be inspected before delivery. Steel components bent or buckled before erection may be rejected. All structural steel components to be hot dip galvanised

ON-SITE ACTIONS Start of work means total acceptance of conditions

Provide holding down bolts to concretor for building in. Comply with Structural Engineers Instructions and details.

Erect plumb and secure in place. Erect so that components can be fixed without distortion. Provide temporary bracing against wind and other stresses. Advise Engineer when erected steel is ready for inspection. Adjust as required. Grout under base plates in high strength mortar. Touch up steel with zinc-rich paint after installation. Weld in accordance with AS 1554. No site welding without approval from Architect.

Section 06100 Carpentry

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to:

Supply & erect framing both structural and substructural. Include floor panels, wall cladding, roof framings, incidental framing. Refer Schedule on Page 2. Note refer to Section 00820 Additional Articles for items to be supplied by proprietor.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work Concrete, Brickwork, Wall Lining, Plumbing, Electrical, Insulation, Painting, Fibre cement products.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

SAA HB44 Guide to the timber framing cod. AS 1684 Nat. Timber Framing Code. AS 1720 Timber Structures Code.

AS 1860 1998 Installation of Particleboard flooring. AS 4055 Wind Loads for Housing.

Comply with recommendations of the National Assoc. of Forest Industries Technical bulletins.

Comply throughout with the current edition of the Building Code.

MATERIALS TO BE USED

Refer Schedule following

PREPARATION Inspect conditions at site before starting work

Store timber on site above ground, flat and horizontal. Protect from rain, damage and other material.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Comply with National framing code.

Perform operations including grooving, rebating, framing, housing, beading, mitring, scribing, nailing, screwing and gluing as necessary to carry out the works. Use timber in single lengths whenever possible. If joins are necessary, make them over supports unless otherwise shown or specified.

Arris visible edges in sawn work and in dressed work arris with sandpaper to 1.5mm radius unless otherwise shown or specified.

Back plough boards liable to warping (for example, if exposed on one face). Make the width, depth number and distribution of ploughs appropriate to the dimensions of the board and the degree of its exposure.

Provide necessary templates, linings, blocks, stops, ironwork and hardware, screws, bolts, plugs and fixings generally.

Trim framing where necessary for openings, including those required by other trades.

Galvanise mild steel components (including fasteners) to AS 1214 and AS 1650 as appropriate if:

- Exposed to weather
- · Embedded in masonry
- · In contact with chemically treated timber

Provide additional support in the form of studs, noggings and trimmers for fixing lining, cladding, hardware accessories, fixtures and fittings as necessary.

		Carpentry		
ITEM	F No.	TIMBER NAME	SIZE (mm)	SPACING
Bearer	#		#	#
Floor Joist	#		#	#
Bottom Plate	#		#	Ì
Columns	#		#	#
Beams	#		#	
Studs	F7		90x40	450
Jamb Studs (double)	F7		90x40	
Lintels	F7	·	*	1
Noggins	F7		70x40	600cts
Bracing	#			1
Ceiling Joists	#			
Wall Cladding		9mm thk fibre cement panels with 10mm exposed joints in a staggered vertical brick bond pattern. Laid over 12mm waterproof ply backing board.	400wx1200h	

[#] Denotes – Refer to Structural Engineers Details
* Denotes – Refer to AS 1684 National Timber Framing Code.

Section 06165 Fibre Cement Products

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to:

Supply and install fibre cement and associated equipment and fixing to:

Wall linings internal and external, wet area wall lining.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work

Wall Framing, Ceiling Framing, External Decks, Plumbing, Electrical.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

AS 2329 1980 Mastic adhesives for fixing wallboards

AS 2908 1992 Cellulose - cement products. 2908.2 - 1992 Flat sheets.

Relevant Technical Bulletins and published instructions produced by manufacturer. Comply with requirements of relevant Statutory Authorities, and Building Code.

Comply throughout with the current edition of the Building Code

MATERIALS TO BE USED

SELECT FROM: JAMES HARDIE PRODUCTS

CSR BUILDING MATERIALS EQUIVALENT

Villaboard 9.0mm

Wallboard FC 9mm

Compressed sheet 18mm

Compressed sheet decking 18mm

Underlay for ceramic tile

CT Underlay

NOTE: THE MANUFACTURER SUPPLIES ACCESSORIES FOR THE ABOVE

Supply all those required for each application

PREPARATION Inspect conditions at site before starting work

Tradesmen with wide experience and knowledgeable in this class of work to undertake the work.

Co-ordinate with other trades prior to commencement of work and arrange for fixing grounds required for satisfactory execution of the work of this trade including penetrations.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Comply with the manufacturer's installation instructions. Take care of and protect surrounding work, including other finishes, equipment and components, during installation. Provide protective covering where necessary.

Finish joints and secure fasteners. Remove surface defects to achieve uniform appearance of each type of installation.

Protect finished work. Make good damage in every respect at no additional cost to the Proprietor.

Clean exposed surfaces including trim, edge mouldings, and comply with manufacturer's instructions for cleaning and touch-up of minor finish damage.

Remove spatterings, droppings and surplus material.

Provide flashings trims and sealants to waterproof wet areas in accordance with manufacturers details and instructions ensure compliance with AS 3740 Waterproofing wet areas.

Provide 12mm thk waterproof plywood sub cladding. External wall cladding to be 9mm thk machine cut fibre cement panels with10mm exposed joints over a 50mm wide backing strip. Screw fix panels through backing strip to timber framing in a staggered vertical brick bond pattern. Use countersunk marine grade ss screws located in a regular even pattern.

Section 06400 Joinery - Site Built

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to:
The work of this section covers the supply and installation of site built joinery items. It includes:
Service cupboards, wardrobes, coat cupboards, benches, shelves, rails, stairs, handrails, architraves, skirting, pelmets.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work Floor, wall and ceiling construction. Window and door installations, finishing trades, electrical.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

AS 1493 1973 Shelving and dressed boards milled from radiata pine. AS 1859 1995 Re-constituted wood-based panels. Includes particleboard & medium density fibreboard 1859.1 Particleboard 1859.2 MDF

AS 2754 Adhesives for timber and timber products (in three parts) 2754.3 1988 Adhesives for non-structural applications. AS 2796 1985 Timber - Seasoned hardwood - Milled products.

Comply throughout with the current edition of the Building Code.

MATERIALS TO BE USED

ltem

Service cupboards, wardrobes, coat cupboards:...

BBQ Bench:

Architraves & Skirtings

Description

Melamine carcass with painted doors

Stainless steel.

70x12 customwood - paint finish

PREPARATION Inspect conditions at site before starting work

Construct a sample installation of door frame and door, bench, shelves, architraves and other trim. Stop. When approved complete remaining work.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Provide necessary anchoring devices. Use concealed shims to install work plumb, level, straight and distortion free within the following tolerances:

- 1mm in 800mm for plumb and level.
- 0.5mm maximum offsets in flush adjoining surfaces.
- 2mm maximum offsets in revealed adjoining surfaces.

Scribe and cut to fit adjoining work; refinish cut surfaces or repair damaged finishes at cuts. Secure joinery with anchors or blocking built-in or directly attached to substrates. Secure to grounds, stripping and blocking with countersunk, concealed fasteners and blind nailing as required to complete the installation. Except where pre-finished matching fastener heads are required, use fine finishing nails, countersunk and filled flush. Use a matching filler where a transparent finish is required. Install without distortion.

Section 07200 Thermal Insulation

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to: The supply and installation of thermal insulation.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work Wall and roof framing, roofing, wall lining, brickwork, blockwork, suspended ceiling.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS *Current Edition.* SAA HB63 1994 Home Insulation in Australia. AS 2627 Thermal insulation of dwellings.

Comply throughout with the current edition of the Building Code.

MATERIALS TO BE USED

				
Item	Description	R-Rating	Location	Manufacturer/Supplier
Wall insulation	Glass Fibre Batts	2.5	Between studs	
Vapour barriers	Reflective foil		Between wall sheet & studs	
Roof Insulation	Glass Fibre Batts	3.0	Between roof purlins	
Roof Sarking	Composite foil / blanket	1.0	Between roof sheet & purlins	Insulco Vapa-Chek

PREPARATION Inspect conditions at site before starting work

Prepare surfaces and or framing material and ensure that no obstructions will prevent rapid and effective installation.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Comply with manufacturer's current written instruction. Install insulation to the following areas and structures.

Floors: Provide insulation between joists and support using nylon cord or galvanised wire.

Walls: Sandwich reflective foil vapour barrier between studs and metal wall cladding locate bats between studs to external walls and to internal walls around bedrooms.

Roof: Sandwich composite blanket between roof sheet and purlins and provide batts between purlins and support using nylon cord or galvanised wire.

Section 07610 Metal Roofing, Siding and Plumbing

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to: Metal roofing and sarking, downpipes, gutters, translucent roofing and metal wall cladding.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work Roof Framing, Wall Cladding, Storm Drainage Insulation.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

SAA HB39 Code of common practice for steel roofing. AS 1562 Design & Installation of sheet roof & wall cladding. AS 2180 1986 Metal rainwater goods, selection and installation. AS 4285 Skylights.

Comply throughout with the current edition of the Building Code.

MATERIALS TO BE USED Item etc.	Material	Trade Name / Material	Finish / Colour	Thickness / Weight
Metal roof Pre formed flashings Malleable flashings Accessories	Supplier BHP BHP (or equal)	Custom Blue orb Ultra Soft zinc	Colorbond Woodland Grey Colorbond Woodland Grey natural	0.47mm TCT 0.55mm BMT 0.7mm
Gutters and soakergutter: Downpipes Sealing of penetrations Sealant Pre formed infill strip	BHP (or equal)	Dektite pipe flashing Neutral curing silicone Infill strip for custom orb	To suit pipe size Clear	
Fixings	Class 4	·	Colorbond Woodland Grey	
Plywood wall sub structure Fixings PREPARATION Inspect con		Stainless steel screws e starting work	Type A bond CD finish	12mm

Ensure framing is in place and secure. Ensure safety equipment is in place.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Comply with recommendations in HB 39 (see above), Code of Common Practice for steel roofing. Install each item in accordance with manufacturer's current written instructions. Provide infill strip to all corrugated edges of roofing and wall cladding. Form penetration flashings neatly with material matching roofing material or install EPDM collars. Provide flashings at all upstands lapped 150mm at junctions. Step flashings evenly. Finish top corners to a line parallel to the roof slope.

Close and seal ends of cut ribs. Form back gutters not less than 100mm wide with falls towards the sides of the penetration collars. Seal joints with compatible sealant. Secure downpipes through cladding to structure. Seal at stormwater pipe upstands. Remove debris from gutters and downpipes. Test on completion.

Note - locate plumbing vents away from house roof so as there are no penetrations.

Section 08250

Doors and Door Frames

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to:

Supply and install door frames and doors for external and internal door openings. Refer Drawn Schedule, A24

IDENTIFY REQUIREMENTS: Timber frames, metal frames, doors, glazed, solid core, waterproof, louvred, flyscreen, security, acoustic, flush panel - hollow core, expressed framed doors.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work

Carpentry, Door Hardware, Wall Construction, Glass, Painting.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

AS 2688 Timber doors. AS 2689 Timber doorsets. AS/NZS 2803 Doors-security screens.

AS/NZS 2804 Installation of security screen doors. AS1288-1994 Glass in buildings (selection and installation)

Comply throughout with the current edition of the Building Code.

MATERIALS TO BE USED

Refer to Architectural drawing A10 for frame types and details.

ltem

Frame type

Description

Manufacturer

Door frames:

External

140x40 double rebated Cedar

internal

Width to match finished width of wall - 45mm thk single rebated seasoned timber

Item Description

External Doors

Glazed Timber Doors

40mm thick clear Cedar frame with laminated glazing in accordance with AS1288

Fly Screen doors Hinges 40mm thick clear Cedar frame with nylon fly mesh. Three 100x75x1.6mm brass or SS hinges per leaf

Internal Doors

Flush panel hollow core

35mm thick with paper / honeycomb core and 4.5mm veneered hardboard faces.

10mm edge strips to 4 sides of door.

Hinges

Two 85x60x1.6mm brass hinges per leaf

Sliding Track

Henderson top hung sliding door track too suit door size

PREPARATION Inspect conditions at site before starting work
Prepare openings in walls. Install fixing grounds to secure frames.

Erect a sample frame and door of each type complete. Stop. When approved by Architect, continue.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Erect frames plumb and true. Comply with named Standard listed. At head and jambs allow 3mm clearance.

At floor allow 10 mm over floor covering. Install flashings caulking and pointing so that water is prevented from entering the building between frames and structure. Conceal all fastenings by sinking heads below surface of frame and fill with material compatible with surface finish. Check and clean on completion.

Section 08550

Timber Windows, Louvres and Glazing

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to: Supply and install timber window frames and glass, sashes, glazed doors, flyscreens, hardware, flashing, sun control material.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work Carpentry, Blockwork, Painting.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

AS 1288 Glass in Buildings, amended 1997. AS 2047 1996 Windows in buildings in 2 parts. Comply throughout with the current edition of the Building Code.

MATERIALS TO BE USED

Refer to Architectural drawing A10 for frame types and details.

Timber Windows

Manufacturer Description Frame type Item

140x40 clear cedar Window frames: F1 Minimum 60x40mm clear cedar Sashes

Refer to drawn schedule Door frames

Laminated min thickness 6.38 size in accordance with AS1288. Glass

White translucent finish Obscure Glazing Linseed oil Putty

Zinc to sill, jamb & head Flashing

Window winders with key operated locks Hardware (sashes)

locate on inside for awning windows and on outside for all other windows and doors. Flyscreens

Timber framed with nylon mesh.

Louvre windows

Manufacturer Description item Altair by

Powder coated aluminium frames with weather strips complete with 152mm toughened glass blades

PVC seals. Provide light and medium duty mullions between frames as Breezeway Australia

noted on architects drawings. Provide silver grey O rong handles and clips.

PREPARATION Inspect conditions at site before starting work

Prepare for installation of frames. Supply required anchors for building into masonry.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Ensure frames are anchored. Comply with AS 2047. Install glass in accordance with AS 1288 Part 2. Install flyscreens fixed, hinged, or removable, where directed. Install window winders catches locks etc. Comply throughout with manufacturer's instructions. Install flashings caulking and pointing so that water is prevented from entering the building between frames and structure. Conceal all fastenings by sinking heads below surface of frame and fill with material compatible with surface finish.

Section 08710 Door Hardware

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to: Supply and install door hardware listed in the Schedule for doors.

COOPERATE WITH THESE OTHER TRADE to resolve possible problems before starting work Doors & Door Frames, Metal Windows, Timber Windows

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

AS 4145 Locksets

Comply throughout with the current edition of the Building Code.

MATERIALS TO BE USED

Item

Description

External door locks

Double key deadlock satin chrome finish

handle

Internal door handles

Satin stainless flush pulls

External sliding track Flush bolts

Roller to bottom of door, guide at top Keyed drop bolt satin natural finish Proprietary cavity slider with acoustic seals

Internal sliding track
Internal sliding door latch

Flush bolts

Sliding door handles

Flush pulls-Sat chrome finish To all external hinged doors

Weather stripping Door stop

Satin Chrome fixing plate with rubber stop floor and wall fixed

as appropriate

Master key

Key alike all external doors

PREPARATION Inspect conditions at site before starting work

Install a complete set of hardware as scheduled.

install samples of each type. Stop. When approved by Superintendent, continue.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Install with accordance with AS 4145 and written instructions of each manufacturer. Check deliveries on arrival. Lock away until needed and assume responsibility for hardware. Fit accurately at correct heights and protect until completion of project. Oil hinges and locks and provide two keys to each lock. Mounting height of locksets-1 metre from centreline of spindle to finished floor level.

Manufacturer/Supplier

To joiners details

Centor "Forte" 200mm

Lockwood 001 Deadlatch lever

Section 09250 Plasterboard

SCOPE OF WORK Perform work described here and shown on drawings including but not limited to: Supply and install plasterboard, lining of masonry walls, ceilings and bulkheads.

COOPERATE WITH THESE OTHER TRADES to resolve possible problems before starting work Wall, Frames, Carpentry, Brickwork, Blockwork, Suspended ceiling, Electrical.

COMPLY WITH APPLICABLE CLAUSES OF THESE BUILDING STANDARDS Current Edition.

AS/NZS 2589.1 1997 Gypsum linings in residential & commercial construction.

AS 3740 Waterproofing of wet areas within residential buildings.

Comply throughout with the current edition of the Building Code.

Comply with manufacturer's technical bulletins;

Boral Plasterboard installation reference manual -Products & their uses Booklet 1 –201DC issue 4 Boral Plasterboard installation reference manual -Fixing to timber and masonry Booklet 2 –2021DC issue 4 Boral Plasterboard installation reference manual -Fixing in wet areas Booklet 4 –204D issue 4

MATERIALS TO BE USED

Item	Description	Manufacturer/Supplier
Plasterboard walls	13mm	Boral
Plasterboard ceilings	13mm	Boral
Plasterboard for:		
bulkheads.	13mm	Boral
Metal sections		
	P 50 shadowlin to ceiling / wall junction	Rondo
	P32 Plasterlock corner Bead	Rondo
	Internal angles	Rondo,

Square set ceiling I wall junctions.

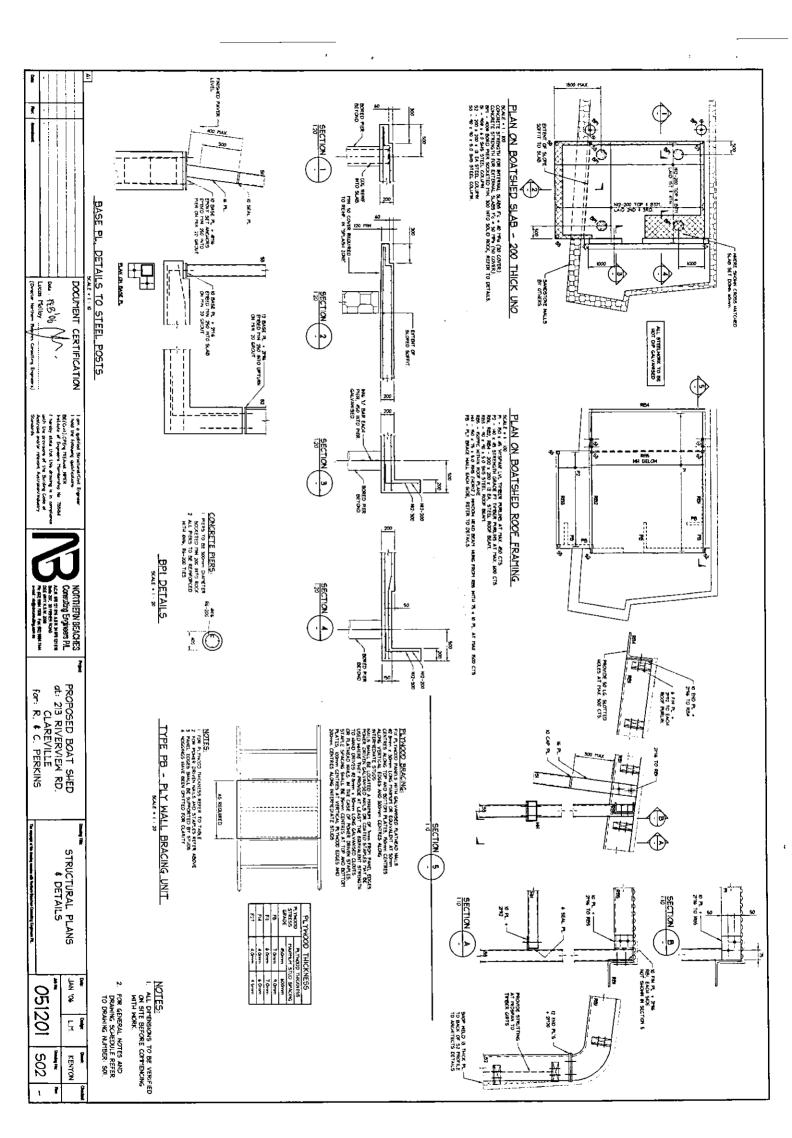
PREPARATION Inspect conditions at site before starting work
Ensure framing is complete and electrical and other wiring is in place.

ON-SITE ACTIONS Start of work means total acceptance of conditions

Comply with plasterboard manufacturer's current written instructions. Form dropwalls, recesses, manholes as required.

G4. Design, materials and warkmanship are to be in accordance with current S.A.A. standards and stautury authority regulations scoopt where varied G3. Care is required during construction so that structural elements are not over stressed and that the works and exceedions required therefore are kept stable at all times. G2. Dimensors shall not be obtained by scaling from the drawings. All setting out dimensions shall be verified and discrepancies shall be referred to the Engineer prior to commencement of work. Gl. The drawings are to be read tagether with all Architects drawings and specifications. C9. Strinkage reducing admixtures such as "Eclipse" or approved equivalent if specified, must be added to mix prior to pour. CB. No holes or chance other than those shown on the structural drawings should be made in concrete elements without the prior approval of the Cé. All Construction Joints locations shall be approved by the Structural Engineer C7. Boom depths are written first and include slab thickness, if any. C3. All concrets whese otherwise noted shall have a slamp of 60mm at point of placement, a max cognegate size of 20 mm. He wader shall be added to the mix prior to get an observation of concrete Strength as specified on plane. PS, Footings to be cost in approved molernal having an allowable capacity as follows: F3. Footings must bear into undisturbed natural ground clear of organic material. Refer to details. F2. Factings to be constructed and back filled as soon as possible following accordion to avoid softening by rain or drying out by supposers. G6. Builder to ensure stability of existing structures in the vicinity of excevation works. C5. Sizes of concrete elements do not include thickness of applied finishes C4 Clear concrete cover to reinfarcement shall be as folious unless otherwise shoun-C2. Concrete quality shall be as follows and shall be verified by tests. \$4 if not or variable bearing strota is encountered during excavation of the footings oil footings/piers are to be encounted to similar material of FOOTINGS G5. Design live loads are in accordance with AS 1170.1 GENERAL NOTES: BEATS ELEMENT. Cl. All workmanship and materials shall be in accordance with AS 3600 COLUMNS/PEDESTALS 30 UNO Cay Fandaine. Cal Regard being copally 150 kPa. Cal Terobes must be closted of all define. Soft spots must be and cal fined as and fined as are compacted fill notes, pror to placement. SLABS/MALLS FOOT INGS FOUNDATION STRATA IS ASSUMED FOR DESIGN PURPOSES IN ACCOMPUNED WITH AS 2010-1996 "RESIDENTAL SAUS AND FOOTINGS-CONSTRUCTION". SEE FOOTINGS-CONSTRUCTION". SEE FOOTINGS-CONSTRUCTION SEED FOR THE CLIENT FOR CERTIFICATION OF FOUNDATIONS. Fulure development of neighboring properties may effect ground under conditions on this site. Consequently, resoluting in subground between feeting may be locally effected therefore splitting feeting of mice of efficiential settlement, the recommend that, perticularly in day subgrades, agricultural drawings in installed to the superioran permitter of the building of a disturced from the building that the substant permitter of the feetings. The agricultural dark most be invalided beaut the flictuating seasonal sans under should be identified by peakedness of the seasonal sans under should be identified by peakedness. Refer adjacent for assumed Design bearing strota. Required bearing capacity (COO kPa Scrope weathered surface to remove cleaved eardstone under featings Shole Fanddrions: SHI. Required bearing capably 400 kPa. SHI, Execution for footings into whole minst be coalt on capped with plain SHI, Execution for the same day as excandion. Sand Foundations: 5AI, Required bearing capacity 100 kPa. 5A2. Trenches must be cleaned of all detrie and hand compacted prior Sandstone Foundations: greater bearing capacity. The Engineer is to be contacted at that time for approval or review. 25 UNO NTERIOR 55 FROM APPROPRIATE FACE REFER TO PLAN 50 EXTERIOR REFER TO PLAN 40 ON MEMBRANI REFER TO PLAN -AGAINST GROUND (Director Northern DOCUMENT CERTIFICATION Cii. Where vertical slab/beam surfaces are formed against a mosomy (or other) upil, provide 10 mm styrene separation material. R6. All reinforcing bars and fabric shall camply with AS 4671-2001. RS. Pipes or conduits shall not be placed within the zone of concrete cover to the reinforcement without the approval of the engineer. R3. Top reinforcement is to be continuous ever supports. Bottom reinforcement to be lapped at supports. BLS, Vertical control joint moderial where specified on pian between skets and brick wells shall be: 10 mm Spandes External UNO. Blumpatic fibrational internal UNO. BL4. Centrol joints to be placed at a maximum of 8 m centros or in accordance with AS 3700. BL3. Location of actual startors is critical to selt black cores, allow 55 mm one from the actual face of blackwork. All reinforcement lop lengths BRs. Vertical control joint meter/of where specified on plan between state and brick walls shall be: 10 mm Spander External UNO. Blumastic fibreboard internal UNO. BRJ. Control joints to be placed at a maximum of 6m centres or in accordance with AS 3700. BC2. Two loyers of approved grassed metals based slip material shall be used now all load bearing walls that support concrete action and placed on emoth brickwark or troughled morter finels. How feed-bearing walls shall have 10 mm compressible material and ties to the state soffit. RQ All reinforcement shall be firmly supported on bar chains spaced at a maximum of 750 contres both usys under red and fabric reinforcement. Reinforcement shall be tied at alternate intersections. R7. Rainforcement R4. Helding of reinforcement shall not be permitted unless shown on the R2. Reinforcement is represented diagrammatically it is not necessarily shown in true projection. Cl3. Above covers may have to be adjusted if fire noting is a requirement. C12. Mater must not be added to concrete mix prior to placement of concrete BL2. Where cores of holiou blocks are to be filled, properly compacted 2019's concrete with 10 mm appropria and 230 mm slump shall be used. Clean out openings must be utilised for all cares. BR7. Provide stainless steel wall ties below DPC to AS 3700. Provide galvanized well ties above DPC to AS 3700 i Local Council Specifications BR3. No brickwork shall be constructed an suspended state until all propping has been removed from the underside of the state and the concrete has the specified 26 day cylinder strength verified by tests. P.G. The fraibed concrete shall be a dense hamopresse mean, completely filling the form users, throughly embedding the neitlancement and free of sions pockets. All concrete elements including stabs on grand and factings shall be compacted with mechanical vibrations. FM2. Historium stripping three for form work shall be as recommended in AS 3610 - 1990 or as directed by the engineer. R1. All reinforcement specified is Grade D500 wiless noted otherwise REINFORCEMENT BRS. Exposure grade bricks to be used below damp proof course. Put. Curing of all convertée le to les cértimest le tearing auritanes continuents une le comme de la doine, alliquent le proventium of leur de moistern les anne desse failment les agradest d'arrag oct. Approved arrande our hig compancie mois les accessés d'arrag oct. Approved arrande oraginares, treating or unit heasien may be usud il protected from uned popinione, treating or unit heasien may be usud il protected from uned projetimes. FMI. Formwork must be cleaned of all debrie prior to costing of concrete BRICKWORK 6 N12-250, denotes 8, Grade 500N deformed bars, 12 mm élameter et 250 cts ectres Consulting Engineers) Super Low Dutility. RL - Code 500, welded defined ribbed mesh (D500) RL - Code 500, welded defined ribbed mesh (D500) The number handdely reliably these symbols is the number of millimeter is the tier derivative. Noter reducing agents, if specified, must be added to mix prior to pour No extra water is to be added to increase sump. Concrete blocks shall have a minimum compressive strength of 15 MPs and conform to AS 1500. to conform to AS 3600 Brickwork is to be constructed to AS 3700. Federic reinforcement to be lapped I complete square + 25 mm unless noted atherwise. Reinfordment symbols: N - Grade 500N defermed bar (D500) Namnal Ductility R - Grade 550N pain naved bar (R550) Namnal Ductility SL - Grade 550N, welded defermed ribbad mash (D500) Mosorry to be constructed to AS 3700. I on a golfad Struttmillichi Expresi I had the distance quilitations BE(chi) (Ching Head, 1972) Ballula di Express Terriceship to 70004 I hardh statu this almang is in correlated with the pressure of the Bushing Code of American order relatest American Practicy Standards - All Structural steelwork to be Grade 300 or greater Design, fabrication and eraction to be in accordance BLB. Max. pour height for unrestrained blockwork is 2000. BLT. No blockupink shall be constructed on supported status intil all propping has been removed from the underside of the side and the contract has the specified 50 day of Index strength verified by tests, unless approved by the Structural Deprimen. Bus. Retaining waits or any reinforced and concrete core filled block walls to be of Double V' Block Construction. S.) Illusia missi alternias all usels shall be category \$9 lainty Electrodes. All this usels shall be corrected propriation both usels category \$9. \$1. Grounding at earthry last absolute produces shall be completed by the correction usery lays strength, New Schrick program companies users in \$100,000 and the completed by the section in the section in Sections for the section in Sectio 19. All exposed CCA treated pine to have an application of penetrating socker to reduce worping and twist of the timber due to varying moisture content in service. Not dip galvanized nais/closts/screws to be used with all timber corrections. Treat all exposed at ends with Resed by Protin to manufacturers specification to achieve regimed Hazard Level Exposure Classification. 74. All troles for bolts to be exact size. Manhers to be seed under all heads and ruke and to be at least 2.5 times the boit diameter. Boils to be 116 grade 4.6 unless railed otherwise. Tb. Cartinous nailing must not be used for any timber carrections. external elements, a elements within either skin of external cavity walls to 0.17 - Heyn Strength structured boils Grade 8.8, fully tensioned to A5 551 and cating as a Secreta Jork. Unions model obstruction, all boils will be 8.95. Librian stream obstruction, minimum connection shall be 27116 boils, 10 thick quasits places, from continues filled unides. Local relicating quarters shall be used in all fully tensioned joints, (0.817 6 8.915). All secting with the carried set in occurrence with A5 1554 SAA Structured Steel behavior continued. 1. All uniformship and materials to be in occarbance with AS 684, AS 1700 and as 95%. All soft word to be detaile FT where noted otherwise, All instruced to be merentian Grozie FT where noted otherwise noted Exposed trimber to be CCA treated (to AS 604) reduced after fall impropriation, or advantisty class, 1, 2 or 3. ALL SOFTMOOD THREE FRANKE TO LAVE A MINISTER TREATMENT PROTECTION OF ME. 97 TO TREATMENT FOR TERMITE PROTECTION ONLESS NOTED OTHERWISE. Roof trueses to be designed by the manufacturer to the relevant standards. Pre-carrier to be an emount equal to dead lead deflection unio. All joists deeper than 150 to have blocking over support because and at a maximum 3000 centres. Butters for 1 6 G to be Kiln Dred to 12 %. Some minimum deep tracked pris or as recommended by supplier. Propring to be installed no sooner than 25 days after slab pour. Notamble and unchromothly shall comply suith AS 1250 - 1981, SAA Steel Shructures Code and the specification for Shructural Steel. Rolled steel sections including steel pictors shall comply with AS 3678 - 1990. Cold formed steel sections shall be Grade #50 Zinc contect in occurrions. c. Hit dispose priorized to \$5.4600. Here the spinned (Hist Dy Generatural) coding is compromised by underly, shirting or durage, integrate piece-rish poet (intervent 95 piece-control) is to be applied after use haviney directed area (wai 3 code minimum). or hist Intel Style accordance with A\$ 4600. Her thing browings shall be prepared and two copies schmitted to the engineer for more large. To the control of the prepared and two copies schmitted to the engineer for more large. In the two for the control of the engineer for more two two two the control of the engineer for more per to the control or control or the control of th b. Proporation Black clean to a minimum standard Class 2.5 in accordance with AS IACT Part 4. Primer 2-pack agray prespots at 4tt 75 minrares (Dular Derspon PA). Barrier Cook 2-pack agray missesse iron mide, 4tt 100 minrares First Cook 2-pack spacy my plass surylic to 4tt 75 minrares [44, Dular Acrathers 1 II) in an approved colour. a. Thorpupity cleaned wire braviring, followed by two cools of dric phasphold primer appropriate to Dries Langurine applied by hard wang brushes to achieve a lated dry film theirness of 70 microns. NORTHERN BEACHES Consulting Engineers PIL. ACM DISTRICT ARE MAD CITED ACM DISTRICT ARE MAD ACM CITED ACM DISTRICT ARE MAD ACM CITED ACM DISTRICT ARE MAD AREA ACM DISTRICT AREA AND DISTRICT ARE rin botts shall be 1912 - 4.65 galverised. eel work shall have one of the following grades of corrosion protection: Commercial botts Grade 46, snug lightered. High Strength structural botts Grade 58, snug lightered. - High Strength structural botts Grade 58, fully lightered to AS ISII armions stad hollow sections shall camply with AS 1163. Grade 350 PROPOSED BOAT SHED at: 213 RIVERVIEW RD. CLAREVILLE for: R. ¢ C. PERKINS SOI - GENERAL NOTES AND DRAWING SCHEDULE SO2 - STRUCTURAL PLANS & DETAILS DRAWING SCHEDULE: 1 GENERAL NOTES AND DRAWING SCHEDULE CF) Give to be used with approved Engineer 6 to be certified by a goldschried Engineer. Ca populating Engineer. CF3. Filling shall be granufor motivated compacted in this may have been 200 mm largers to a minimum dry density ratio (AS 1,204/64.2 1982). of 40 percent. CF4. During clearing and excention for slabs and featings cut out soft spots and fill as above. COMPACTED FILL ASSAMED POANDATION CLASSIFICATION FOR DESKIN PURPOSES - WE ASSAMED BEARING STRATA FOR DESKIN PURPOSES - ROCK, KOO, POASSAME ASSAMEDIAL CONSULTANT TO (\$44057810-80) VERIFY FOANDATION CLASSIFICATION 46 HOURS NOTICE IS REQUIRED BEFORE ANY SITE INSPECTION INSPECTIONS BY ENGINEER Boring stoda of all feetings prior to correct pour Any neutroneuts prior to correct pour. Triber and Sad froming pror to clading or living. Scal Intella offer installation. CONTACT YOUR PAA (Prociped Carlifying Authority) AS TO REQUIREMENTS FOR THANDATORY CRITICAL STAGE INSPECTIONS IN ACCORDANCE WITH REVISED EPHA ACT REGULATIONS EFFECTIVE JULY 1, 2004. JAN '04 051201 Ξ <u>გ</u> KENYON

Amendment



GENERAL NOTES:

- GI. The drawings are to be read together with all Architects drawings and specifications.
- G2. Dimensions shall not be obtained by scaling from the drawings. All setting out dimensions shall be verified and discrepancies shall be referred to the Engineer prior to commencement of work.
- G3. Care is required during construction so that structural elements are not over stressed and that the works and excavations required therefore are kept stable at all times.
- 64. Design, materials and workmanship are to be in accordance with current S.A.A standards and statutory authority regulations except where varied G5. Design live loads are in accordance with AS 1170.1
- G6. Builder to ensure stability of existing structures in the vicinity of excavation works.

FOOTINGS

- FI. FOUNDATION STRATA IS ASSUMED FOR DESIGN PURPOSES IN ACCORDANCE WITH AS 2870-1994 "RESIDENTIAL SLAB AND FOOTINGS-CONSTRUCTION", SEE FOOTINGE, CLASSIFICATION TO BE VERIFIED BY A GEOTECHNICAL ENGINEER COMMISSIONED BY THE CLIENT FOR CERTIFICATION OF FOUNDATIONS. 73
- Footings must bear into undisturbed natural ground clear of organic material. Refer to details. Footings to be constructed and back filled as soon as possible following excavation to avoid softening by rain or drying out by exposure.

Ü

- If rock or variable bearing strata is encountered during excavation of the footings oil footings/piers are to be excavated to similar material of greater bearing capacity.

 The Engineer is to be contacted at that time for approval or review.
- 刃 Footings to be cost in approved material having an allowable capacity as follows:
- Required bearing capacity 100 kPa.
 Transhes must be cleaned of all debris and hand compacted prior to placement of reinforcement.

Clay Foundations:

- CLI. Required bearing capacity 150 kPa.
 CL2. Trenches must be cleaned of all debris. Soft spots must be cut out and filled as per compacted fill notes, prior to placement of reinforcement.
- Shale Foundations:
- 541. Required bearing capacity 400 kPa.
 542. Excavation for footings into shale must be cost or copied with plain concrete on the same day as excavation. Sandstane Foundations:
- Required bearing capacity 600 kPa.
 Sociate weathered surface to remove cleaved sandstone under factings. Refer adjacent for assumed Design bearing strata.
- Future development of neighboring properties may effect ground water conditions on this site. Careapertly, reactivity in subgrade breach featings may be locally oldered therefore atting feating at risk of differential settlement. We recommend that, particularly in clay subgrades, agricultural drainage is installed to the upstream permeter of the building at a distance from the building which is outside the zone of influence of the featings. The agricultural drain must be installed below the fluctuating seasonal zone which should be identified by geatscrinical investigation.

- Cl. All workmanship and materials shall be in accordance with AS 3600, C2. Concrete quality shall be as follows and shall be verified by tests.
- C3. All concrete unless otherwise noted shall have a slump of 80mm at point of placement, a max. aggregate size of 20 mm.
 No water shall be added to the mix prior to or during placement of concrete. Strength as specified on plans.
- C4. Clear concrete cover to reinforcement shall be as follows unless otherwise shown-

ELEMENT	INTERIOR	EXTERIOR	EXTERIOR CAST AGAINST GROUND
FOOTINGS	•	-	જ
COLUMNS/PEDESTALS 30 UNO	ONU OE	REFER TO PLAN	1
SLABS/WALLS	25	REFER TO PLAN	REFER TO PLAN 40 ON MEMBRANE
BEAMS	25 UNO	REFER TO PLAN 50	56
BLOCKWORK	55 FR	55 FROM APPROPRIATE FACE	FACE

- Sizes of concrete elements do not include thickness of applied finishes.
- All Construction Joints locations shall be approved by the Structural Engineer.
- CB. No holes or choses other than those shown on the structural drawings shall be made in concrete elements without the prior approval of the ងខ្ង Beam depths are written first and include slab thickness, if any.
- C9. Strinkage reducing admixtures such as "Eclipse" or approved equivalent, if specified, must be added to mix prior to pour.

- C10. Water reducing agents, if specified, must be added to mix prior to extra water is to be added to increase slump.
- CII. Where vertical slab/beam surfaces are formed against a masarry (or other) wall, provide 10 mm styrene separation material.
- Cl3. Above covers may have to be adjusted if fire rating is a requirement. Water must not be added to concrete mix prior to placement of concrete

- All reinforcement specified is Grade D500 unless noted otherwise.
- **73** .22 Reinforcement is represented diagrammatically it is not necessarily shown in true projection.

- ß Top reinforcement is to be continuous over supports. Bottom reinforcement to be lapped at supports.
- 70 UT R4. Helding of reinforcement shall not be permitted unless shown on the structural drawings.
- Pipes or conduits shall not be placed within the zone of concrete cover the reinforcement without the approval of the engineer.
- R6. All reinforcing bars and fabric shall comply with AS 4671-2001.

- R7. Reinforcement symbols:

 N Grade 500N deformed bar (D500) Normal Ductility.
 R Grade 250N plain round bar (R250) Normal Ductility.
 SL Grade 500L welded deformed ribbed mesh (D500)
 Square Law Ductility.
 RL Grade 500L welded deformed ribbed mesh (D500)
 Rectangular Law Ductility.
 The number immediately following these symbols is the number of millimeters in the bar diameter.
- Example : 8 NI2-250, denotes 8, Grade 500N deformed bars, 12 mm diameter at 250 cts.
- Fabric reinforcement to be lapped I complete square + 25 mm unless noted otherwise.
- R9 All reinforcement shall be firmly supported on bor chains spaced at a maximum of 750 centres both ways under rod and fabric reinforcement. Reinforcement shall be tied at alternate intersections

FORTWORK

- FMI. Formwork must be cleaned of all debris prior to costing of concrete.
- Ē FV2. Minimum stripping times for form work shall be as recommended in AS 3610 - 1990 or as directed by the engineer.
- . The finished concrete shall be a darse homogeneous mass, campletely filling the form work, thoroughly embedding the reinforcement and free of stare pockets. All concrete elements including slabs on ground and footings shall be compacted with mechanical vibrators.
- FW4. Curing of all concrete is to be achieved by keeping surfaces continuously uset for a period of 3 days, followed by prevention of loss of moisture for seven days followed by a gradual drying out. Approved sprayed on curing compounds may be used where no floor finishes are proposed. Polythere sheeting or uset hessian may be used if protected from usind

. 思, BRICKWORK

- BR2. Brickwork is to be constructed to AS 3700.
- 띯 Two layers of approved greased metal based slip material shall be used over all load bearing walls that support concrete slabs and placed on smooth brickwork or travuelled morter finish. Non load-bearing walls shall have 10 mm compressible material and ties to the slab soffit.
- . No brickwork shall be constructed on suspended slobs until all propping has been removed from the underside of the slob and the concrete has the specified 28 day cylinder strength verified by tests.
- BR4. Centrol joints to be placed at a maximum of 8m centres or in accordance with AS 3700.
- Vertical control joint material where specified on plan between slabs and brick walls shall be: 10 mm Spandex External UNO.

 Bitumastic fibreboard internal UNO. Exposure grade bricks to be used below damp proof course.

86. 묤

BR7. Provide stainless steel wall ties below DPC to AS 3700. Provide galvanized wall ties above DPC to AS 3700 ¢ Local Council Specifications

BLOCKWORK

- BLI. Concrete blocks shall have a minimum compressive strength of 15 MPa and conform to A5 1500.
 Masonry to be constructed to A5 3700.
- BL2. Where cores of hollow blocks are to be filled, properly compacted 20HPa concrete with 10 mm aggregate and 230 mm slump shall be used. Clean out openings must be utilized for all cares.
- BL3. Location of actual starters is critical to suit black cares, allow 55 mm cover from the outside face of blackwork. All reinforcement lap lengths to conform to AS 3600.
- Control joints to be placed at a maximum of θ m centres or in accordance with AS 3700.
- Vertical control joint material where specified on plan between slobs and brick walls shall be: 10 mm Spandex External UNO.

 Biturnostic fibreboard internal UNO.

BE(Civil), CFEng, MEAust., NPER.
Institute of Engineers Transbership to 756/64
I hereby stole that this drawing is in compliance
with the provisions of the Building Code of
Australia and/or relevant. Australian/Industry
Standards.

om a qualified Structural/Civil Engineer, hold the following qualifications:

DOCUMENT CERTIFICATION

- Š Bi.6. Retaining walls or any reinforced and concrete core filled block walls to be of Double "U" Block Construction.
- BL7. No blockwork shall be constructed an suspended slabs until all propping has been removed from the underside of the slab and the concrete has the specified 28 day cylinder strength verified by tests, unless approved by the Structural Engineer. BLB. Max. pour height for unrestrained blockwork is 2000.

- All Structural steelwork to be Grade 300 or greater.

 Design, fabrication and erection to be in accordance

- Design, febricalism and erection to be in accordance with AS 4100.

 52. Intersits and workmarship shall camply with AS 1250 1981, SAA Steel Structures Code and the specification for Structural Steel.

 53. Rolled steel sections including steel plates shall camply with AS 3678 1990.

 54. Cold formed steel sections including steel plates shall camply with AS 1836-1989.

 55. Helded and seamless steel hollow sections shall camply with AS 1163. Grade 350.

 56. Bott Designation:

 4.65 Commercial botts Grade 4.6, snug tightened.

 8.518 High Strength structural botts Grade 8.8, snug tightened to AS 1511 and acting as a Bearing Joint.

 8.517 High Strength structural botts Grade 8.8, fully tightened to AS 1511 and acting as a Bearing Joint.

 8.618 High Strength structural botts Grade 8.8, fully tensioned to AS 1511 and acting as a Bearing Joint.

 8.618 High Strength structural botts Grade 8.8, fully tensioned to AS 1511 and acting as a Bearing Joint.

 8.619 High Strength structural botts Grade 8.8, fully tensioned to AS 1511 and acting as a Bearing Joint.

 8.619 High Strength structural botts Grade 8.8, fully tensioned to AS 1511 and acting as a Bearing Joint.

 8.619 High Strength structural botts Grade 8.8, fully tensioned to AS 1511 and acting as a Bearing Joint.

 9.617 High Strength structural botts Grade 8.8, fully tensioned to AS 1511 betterneds.

 51. Contract using Hugh Strength, Nan-Structural Steelwork shall be in Contraction and erection tolerances for Structural Steelwork shall be in Contraction with AS 4100.

 513. For In botts shall be 102 4.65 galvanised.

 1. International Action of the following grades of carrosian protection:

 1. International Action of the following grades of carrosian protection:

 1. International carries are of the following grades of carrosian protection:
- Thoroughly cleared wire brushing, followed by two coats of tinc phrashrite primer equivalent to Dulox Luxaprime applied by hard using brushes to achieve a total dry film thickness of 70 microns.
- EXTERNAL ELEMENTS, & ELEMENTS WITHIN EITHER SKIN OF EXTERNAL CAVITY WALLS
- b. Preparation Blast clean to a minimum standard Class 2.5 in accordance with A5 1627 Part 4.

 Primer 2-pack epoxy phosphate at dif 75 microns (Dulux Durepon P14).

 Barrier Coat 2-pack epoxy micoeous iron exide, dft 100 microns Frish Coat 2-pack epoxy high gloss carylic to dft 75 microns (e.g. Dulux Acrathane | F) in an approved colour.
- c. Hot dipped galvanized to AS 4680.
 Where the galvanic (Hot Dip Galvanized) coating is compromised by welding, botting or demage, inorganic zinc-rich point (minimum 45% zinc content) is to be applied ofter wine brushing affected area (use 3 coats minimum). or Hot Metal Spray in accordance with AS 4680.
 Norther drawings shall be prepared and two copies submitted to the engineer for review prior to fabrication commencement.
- TIMBER
- All workmarship and materials to be in accordance with AS 1684, AS 1720 and as 3459. All soft wood to be Grade F1 unless noted otherwise. All hardwood to be minimum Grade F14 unless otherwise noted. Exposed timber to be CCA treated (to AS 1604) redried ofter full impregation, or durability class 1, 2 or 3. ALL SCFTWOOD TIMBER FRAMING TO HAYE A MINIMUM TREATIENT PROTECTION OF H2 or T2 TREATED FOR TERMITE PROTECTION UNLESS NOTED OTHERWISE.
- All joists deeper than 150 to have blocking over support bearers and at a maximum 3000 centres.
- T3. Roof trusses to be designed by the manufacturer to the relevant standards. Pre camber to be an amount equal to dead load deflection u.n.o.
- T4. All holes for boils to be exact size. Nashers to be used under all heads and ruts and to be at least 2.5 times the boilt diameter. Boils to be Milé grade 4.6 unless noted otherwise.
- T5. Treat all exposed cut ends with Reseal by Protin to manufacturers specification to achieve required Hazard Level Exposure Classification
- Bottens for T & G to be Kiin Dried to 12 %.

 38mm minimum deep treated pine or as recommended by supplier.

 Flooring to be installed no sooner than 28 days after slab pour. Hot dip galvanized nails/clouts/screws to be used with all timber corrections.
- T8. Continuous nailing must not be used for any timber connections.
 T9. All exposed CCA treated pine to have an application of penetral All exposed CCA treated pine to have an application of penetrating sealer to reduce warping and twist of the timber due to varying moisture content in service.
- PROPOSED BOAT SHED at: 213 RIVERVIEW RD. CLAREVILLE PERKINS

NORTHERN BEACHES
CONSULTING Engineers PIL.
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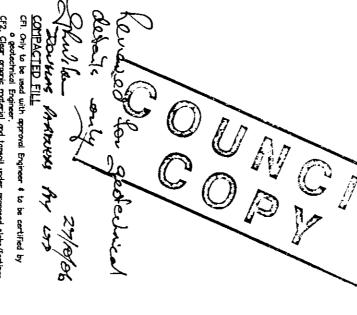
DRAWING SCHEDULE:

<u>80</u> 88 |-GENERAL NOTES AND DRAWING SCHEDULE STRUCTURAL PLANS & DETAILS

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CFI. Only to be used with approval Engineer # to be certified by a geotechnical Engineer.
CF2. Clear organic material and topsoil under proposed slabs/footings.
CF3. Filling shall be granular material compacted in not more than 200 mm layers to a minimum dry density ratio (AS 1284/E4.2 1982) of 95 percent.
CF4. During clearing and excavation for slabs and footings cut out soft spots and fill as above.

INSPECTIONS BY ENGINEER
48 HOURS NOTICE IS REQUIRED BEFORE ANY SITE INSPECTION

 Bearing strata of all feetings prior to concrete pour.
 Any reinfercement prior to concrete pour.
 Timber and Steel framing prior to cladding or lining.
 Steel lintels ofter installation.
 CONTACT YOUR PCA (Principal Certifying Authority) AS TO REQUIREMENTS FOR MANDATORY CRITICAL STAGE INSPECTIONS IN ACCORDANCE WITH REVISED EP4A ACT REGULATIONS effective july 1, 2004,

ASSUMED FOUNDATION CLASSIFICATION FOR DESIGN PURPOSES - 'A' ASSUMED BEARING STRATA FOR DESIGN PURPOSES - ROCK, 600 kPa. CONTRACTOR TO ENGAGE GEOTECHNICAL CONSULTANT TO VERIFY FOUNDATION CLASSIFICATION

GENERAL NOTES
AND DRAWING SCHEDULE JAN 106 Ξ KENYON ing No.

