

1 March 2010

General Manager Pittwater Council PO Box 882 Mona Vale NSW 1660

Dear Sir,

Re: Development Application No. N0353/09 48 Irrubel Road, Newport

For Council's information, please find enclosed Construction Certificate No. 2010/3674 issued for alterations & additions to an existing dwelling at the above address, accompanied by:

- Copy Construction Certificate application form
- Notice of Commencement of Work and Appointment of Principal Certifying Authority
- · Copy of Owner Builders Permit
- Cheque for \$30.00 being the prescribed fee to receive the above certificate.

NB: Please forward receipt for the above fee to Insight Building Certifiers Pty Ltd, PO Box 326, Mona Vale 1660.

Yours faithfully

Tom Bowden Insight Building Certifiers Pty Ltd - 3 MAR 2010
PITTWATER COUNCIL

REG 2758



# Construction Certificate Determination

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

#### Certificate No. 2010/3674

Council	Pittwater
Determination	Approved
date of issue	1 March 2010
Subject land	
Address	48 Irrubel Road, Newport
Lot No, DP No.	Lot A DP 408151
Applicant	
Name	Mrs Kate Long
Address	48 Irrubel Road, Newport NSW 2106
Contact No.	9940 1555 / 0413 747 109
Owner	
Name	Mrs Kate Long
Address	48 Irrubel Road, Newport NSW 2106
Contact No.	9940 1555 / 0413 747 109
Description of Development	
Type of Work	Alterations & additions to an existing dwelling
Builder or Owner/Builder	
Name	Kate Long
Contractor Licence No/Permit	Owner Builder Permit no. 373172P
Value of Work	
Building	\$141,394.00

#### **Attachments**

- Copy of completed Construction Certificate Application Form
- BASIX Certificate, reference no. A63944, dated 14 August 2009
- Pittwater Council Receipt no. 272741 for payment of Long Service Levy

#### Plans & Specifications certified

The development is to be carried out in compliance with the following plans and documentation listed below and endorsed with *Insight Building Certifiers* stamp.

- Architectural Details & Construction Specification, reference no. LRN, drawing nos. DA01, DA02, DA03, DA04, DA05 & DA06, all rev A, prepared by Weir Phillips Architects, dated 8 July 2009
- Structural Details, reference no. 091202, drawing nos. 51.0, 52.0, 53.0, 54.0 & 55.0, prepared & endorsed by Barrenjoey Consulting Engineers Pty Ltd, dated January 2010
- Structural Adequacy Certificate, reference no. 091202, prepared & endorsed by Barrenjoey Consulting Engineers Pty Ltd, dated 24 February 2010
- Form 2 Part A, endorsed by Barrenjoey Consulting, dated 5 February 2010 & Form 2 Part B, endorsed by Taylor Geotechnical Engineering Pty Ltd, dated 2 February 2010
- Demolition Compliance Statement, reference no. AA, prepared by J J Building Pty Ltd, dated 26 February 2010
- Sydney Water Approval, dated 22 December 2009

#### Certificate

I hereby certify that the above Plans, documents or Certificates, satisfy:

- The relevant provisions of the Building Code of Australia
- The relevant conditions of this Development Consent

and that work completed in accordance with the documentation accompanying the application for this Certificate (and any modifications as verified by me and shown on that documentation) will comply with the requirements of the Environmental Planning & Assessment Regulation referred to in Section 81A(5) of the Environmental Planning & Assessment Act, 1979.

**Signed** 

Date of endorsement Certificate No. 0 1 MAR 2010

2010/3674

**Certifying Authority** 

Name of Accredited Certifier Accreditation No.

Accreditation Authority

Contact No.

Address

Tom Bowden BPB 0042

**Building Professionals Board** 

(02) 9999 0003

13/90 Mona Vale Road, Mona Vale NSW 2103

**Development Consent** 

Development Application No.

Date of Determination

N0353/09

30 September 2009

**BCA Classification** 

1a



#### Pithwater Council

### OFFICIAL RECEIPT

17/12/2009 Receipt No 272741

TO MOTE I LONG

46 IRRUBEL AJAS NEWPORT

Applic Seference Amount
SL Re GLSL-Buil \$495.00

Total: #495.00

Amounts Tendered

Cash

Chaque #500.00

Db/Cr Card #0.00

Money Order #0.00

Agency Ked #0.00

Total #0.00

Rounding #500.00

Change #0.00

Nett #495.00

'rinted 17/12/2009 3:08:29 Cashier Ivay



#### Barrenjoey Consulting Engineers pty ltd Stormwater Structural Civil abn 13124694917 acn 124694917

Mrs Kate Long 48 Irrubel Rd Newport NSW 2106 24th Feb 2010

# 48 IRRUBEL RD NEWPORT EXISTING STRUCTURAL ADEQUACY CERTIFICATE Job No 091202

Barrenjoey Consulting Engineers p/l inspected the above residence in respect to the proposed alterations and additions to the existing structure as detailed in the approved architectural plans.

The inspection was a non invasive visual inspection only (and does not include a detailed pest infestation review) and was carried out to determine the adequacy of the existing structure to support the additional loading only.

The existing structure is a single storey timber framed residence located on the Northern side of Irrubel Rd. The residence is in a reasonable good condition as can be expected for a structure of such age.

Issues to be noted -

- The exact location of load concentration points from the proposed works are to be exposed and assessed during construction and some minor structural works maybe required
- Some minor movement may occur as the structure adjusts to the new load distribution and that this movement may result in minor cracking etc to finishes.

In summary it is our opinion that the existing structure is sound and capable of supporting the additional loading provided the plans issued by Barrenjoey Consulting are adhered to and sound building practises are engaged during construction.

Should further information regarding this certificate be required please contact our office as outlined below.

Regards
Barrenjoey Consulting Engineers pty ltd

Lucas Molloy (Director)
BE CPEng NPER





### GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER FORM NO. 2 – PART A – To be submitted with detailed design for Construction Certificate

Report Title: TGE 2837A Report on Godelmical Investigation 48 Invisel, 20 Nemport Report Date: 10 August 2000 Author: Lachlan taylor Author's Company/Organisation: Taylor Godelmical Engineering  Structural Documents list:  Sch. Sc2. Sc3. Sc4. Sc5. by Privilegely Casultury Flan dated Ton' 10  nalso aware that Pittwater Council relies on the processes covered by the Geotechnical Risk Management Policy, including this iffication as the basis for ensuring that the geotechnical risk management aspects of the proposed development have been quately addressed to achieve an "Acceptable Risk Management" level for the life of the structure taken as at least 100 years unless erwise stated and justified.  Signature  Name  Chartered Professional Status.  CPE-12 NPER  Membership No. 788/84  Company  Report Title: 10 Nemport 120 Nemport  Author: Lachlan taylor  Author's Company 10 Nemport  Structural Documents list:  Structural	1	evelopment Application for	
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#### GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER FORM NO. 2 - PART B - To be submitted with detailed design for Construction Certificate

PART B Declaration made by Geotechnical Engineer or Engineering Geologist and/or Coastal Engineer (where applicable) in relation to the incorporation of the Geotechnical issues into the project design

on behalf of Taylor Geotechnical Engineering Pty Limited LACHLAN TAYLOR

#### on this the 2 February 2010

certify that I am a Geotechnical Engineer or Engineering Geologist and/or Coastal Engineer as defined by the Geotechnical Risk Management Policy for Pittwater - 2099 and I am authorised by the above organisation/company to issue this document and to certify that the organisation/company has a current professional indemnity policy of at least \$2million. I also certify that I have reviewed the design plans and structural design plans for the Construction Certificate Stage and that I am satisfied that:

#### Please mark appropriate box

the structural design meets the recommendations as set out in the Geotechnical Report or any revision thereto. the structural design has considered the requirements set out in the Geotechnical Report for Excavation and Landfill both for the

Report Titl	e: TGE2837A Report on Geotechnical Investigation 48 Irrubel Road Newport
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Membership No. 2145895..... Company... Taylor Geotechnical Engineering Pty Limited

Chartered Professional Status...MIEAust.CPEng.NPER





Rd: AA

Date: February 26, 2010

**Insight Certifiers** 

Job: 48 Irrubel rd Newport.

#### **DEMOLITION COMPLIANCE STATEMENT**

This statement is to confirm that the demolition of part of roof in proposed works will be done in accordance with the requirements of AS2601-1991 THE DEMOLITION OF STRUCTURES.

Workers will comply with the working from heights code and fall protection will be used.

All demolished material will either be reused in construction or be trucked to Kimbriki waste depot.

In regard to the Window in the ensuite the shower head will be more than 1500mm from the window negating any waterproofing of the window.

This is the extent of this certificate.

Thank you,

Joel Jones

Managing director

Source: www.whereis.com 02 | Location Plan

N/A 1:200 1:100 1:100 1:100 South & West Elevations North & East Elevations Ground Floor Plar Sections A & B Attic Floor Plan Cover Page Description Drawing No. Drawing No. DA01 DA02 DA03 DA04 DA06

641.19 m<sup>2</sup> 406.19 m<sup>2</sup> 1442 m2 235 m<sup>2</sup> Total Site Coverage Total Site Area Roofed area Paved area

site coverage is unchanged by proposal PITTWATER COUNCII

APPROVED DEVELOPMENT CONSENT PLANS

External V.38 Gutter & DP

CONJUNCTION WITH THE CONDITIONS OF

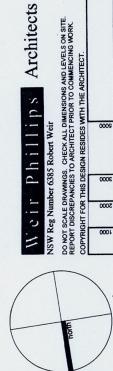
**DEVELOPMENT CONSENT** 

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DATE # 08/07/2008
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Long Residence, 48 Irrubel Road, Newport

DA Submission

5/8/09

E. info@weirphillips.com.au

Level 5 67-69 Regent Street Chippendale NSW 2008
T: 612 9310 1010 F: 612 9310 1088 W: www.weirphillips.com.m

Cover Page Kate Long

DWG

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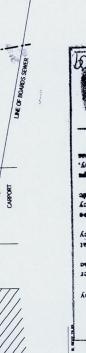
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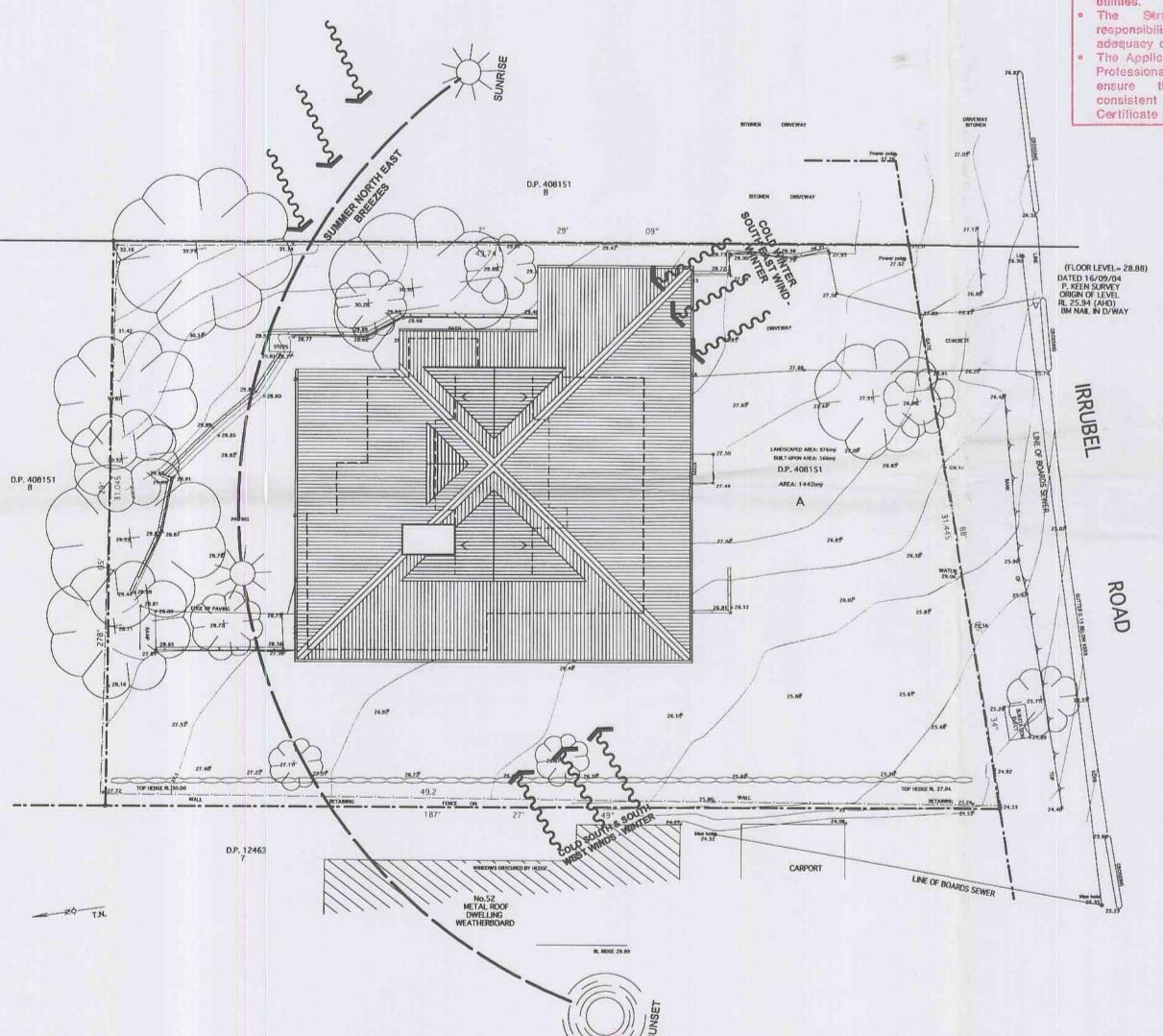
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# Development Appilcation

Long Residence 48 Irrubel Road, Newport 2106 Lot A DP 408151

01 Site Analysis Plan

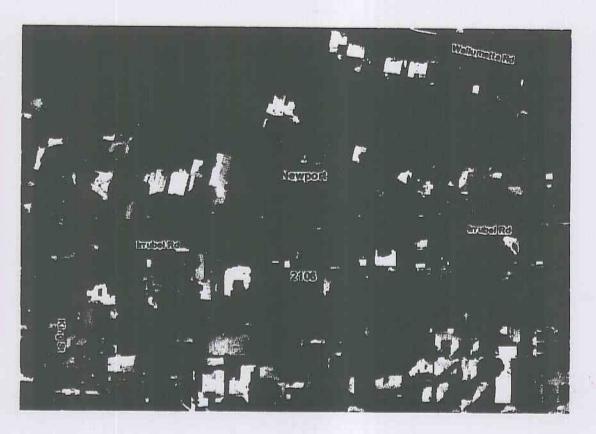
48 Irrubel Road, Newport 2106





The stamping of this plan by Insight Building Certifiers Pty Ltd does not

- The applicant's responsibility to obtain approval from Sydney Water or other
- The Structural Engineer of their responsibility to ensure the structural adequacy of this project.
- The Applicant, Structural Engineer or other Professional of their responsibility to ensure these stamped details are consistent with the issued Construction Certificate Architectural Details.



02 Location Plan source: www.whereis.com

BASIX SCHEDULE	ALL WORK TO BE IN ACCORDANCE WITH BASIX CERTIFICATE A63944, DATED 14 AUGUST 2009						
Lights	40%	of new or altered light fixtures to be fluorescent or Compact fluorescent or Light Emitting Diode (LED)					
Water	All new or altered fixtures to be not less than 3 star rating						
Insulation	External walls	R1.70 including construction					
msuidtion	Roof & Ceiling	Ceiling: R0.74 (Up), Roof: foil backed blanket (100mm)					
Windows	All	new or altered windows to be timber frame, single clear glazing U-value 5.71, SHGC 0.66					

Total Site Area

1442 m2

Roofed area Paved area

Total Site Coverage

406.19 m2 235 m2

641.19 m2

site coverage is unchanged by proposal

PITTWATER COUNCIL APPROVED DEVELOPMENT CONSENT PLANS

INSIGHT building certifiers pty Itd CONSTRUCTION CERT. NO. 2010/3674

CONSTRUCTION CERTIFICATE PLANSter & DP

I certify that the work completed in accordance with these plans & specifications will comply with the regulations referred to in Section 81A(5) of the ental Planning & Assessment Act 1979

T. Bowden Accreditation No. BPB 0042

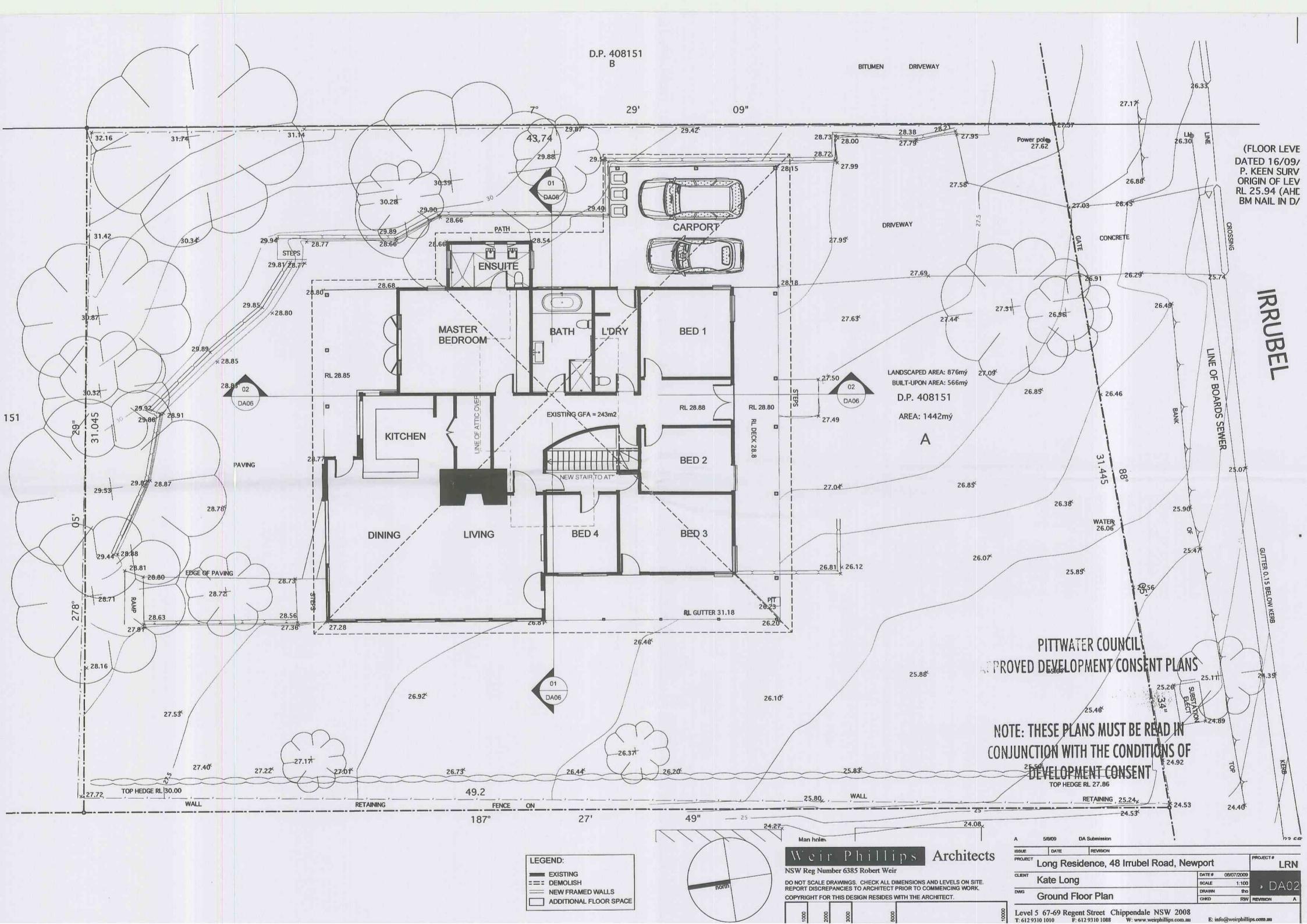
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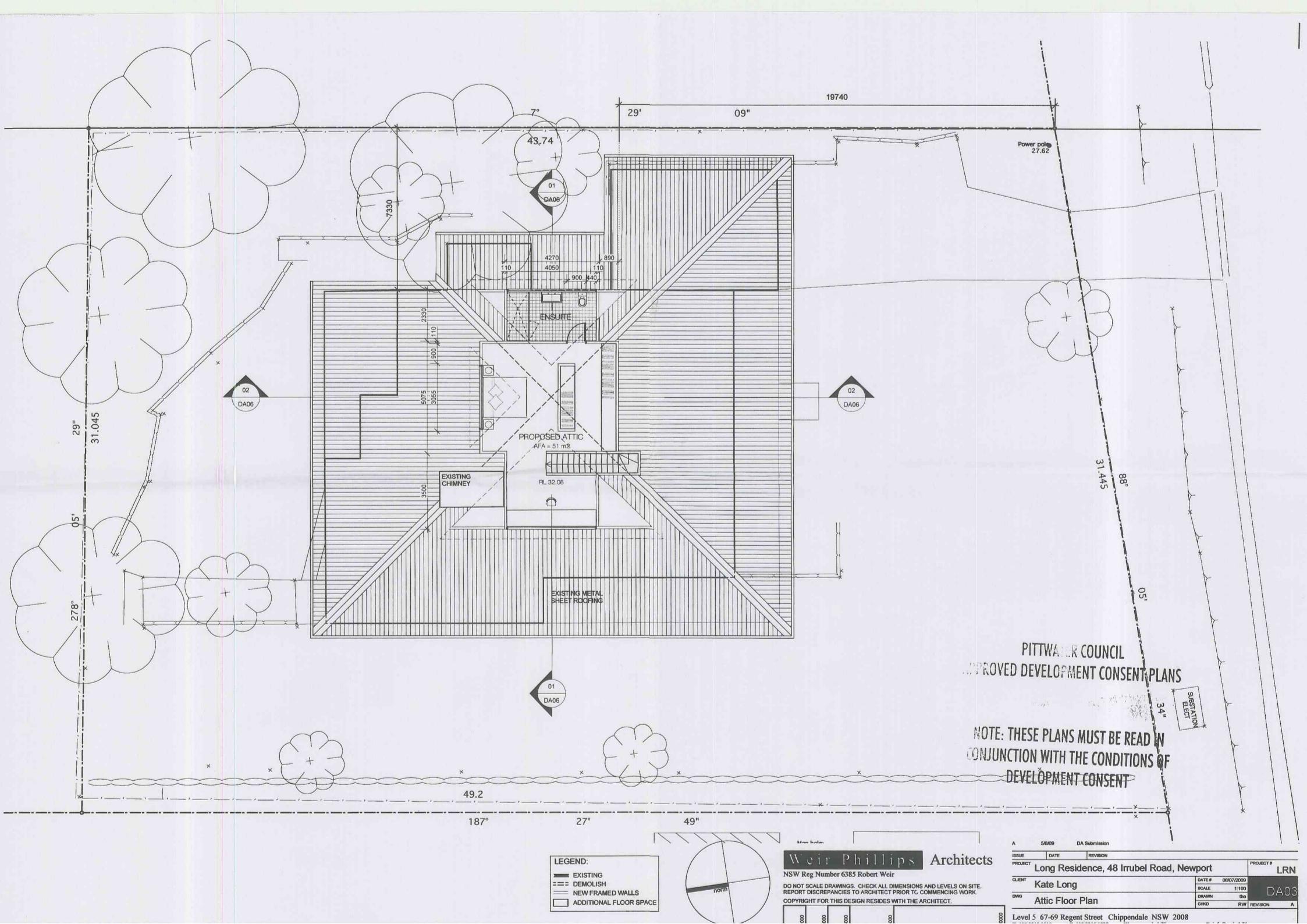
DEVELOPMENT CONSENT

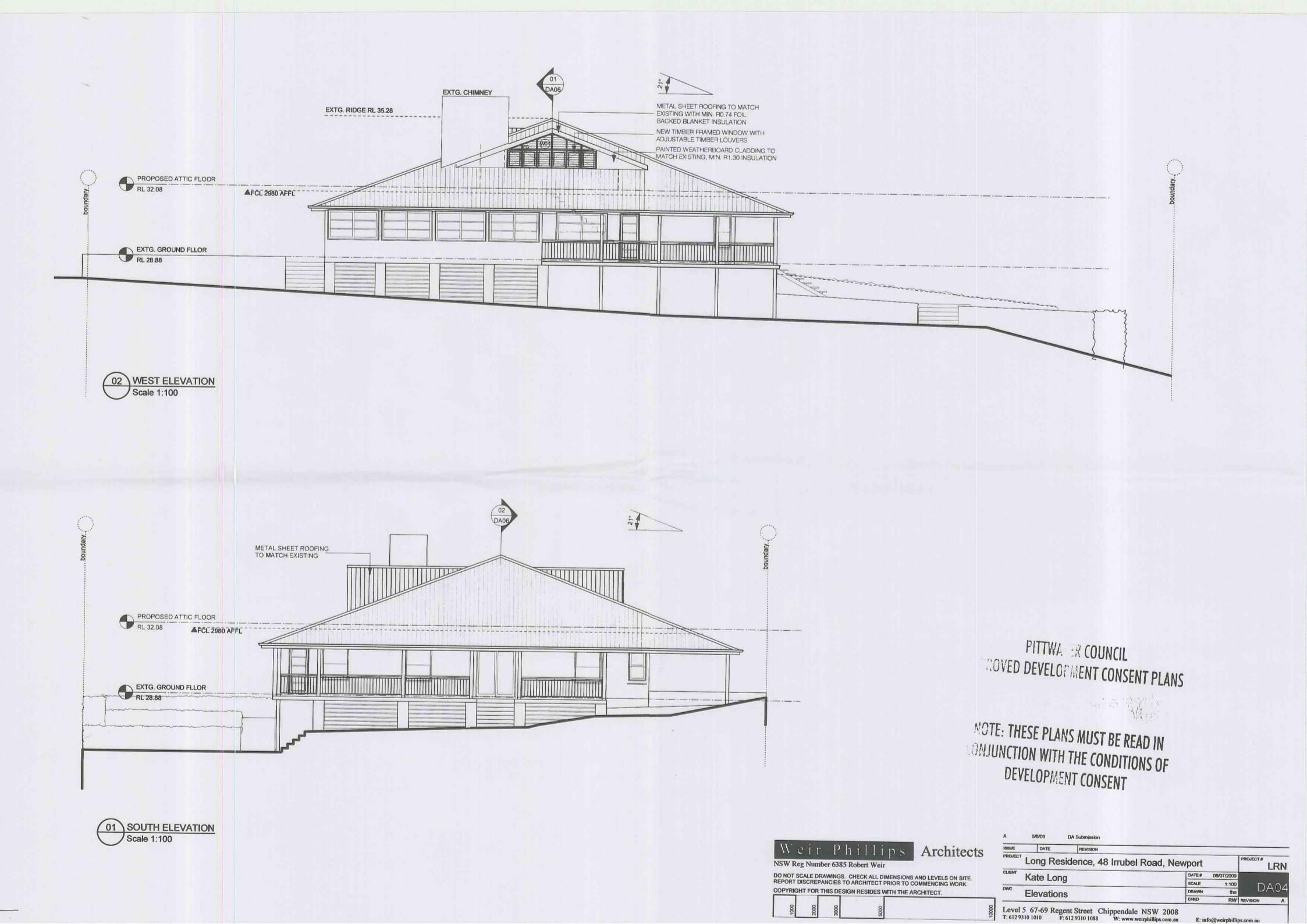
DO NOT SCALE DRAWINGS. CHECK ALL DIMENSIONS AND LEVELS ON SITE. REPORT DISCREPANCIES TO ARCHITECT PRIOR TO COMMENCING WORK. COPYRIGHT FOR THIS DESIGN RESIDES WITH THE ARCHITECT.

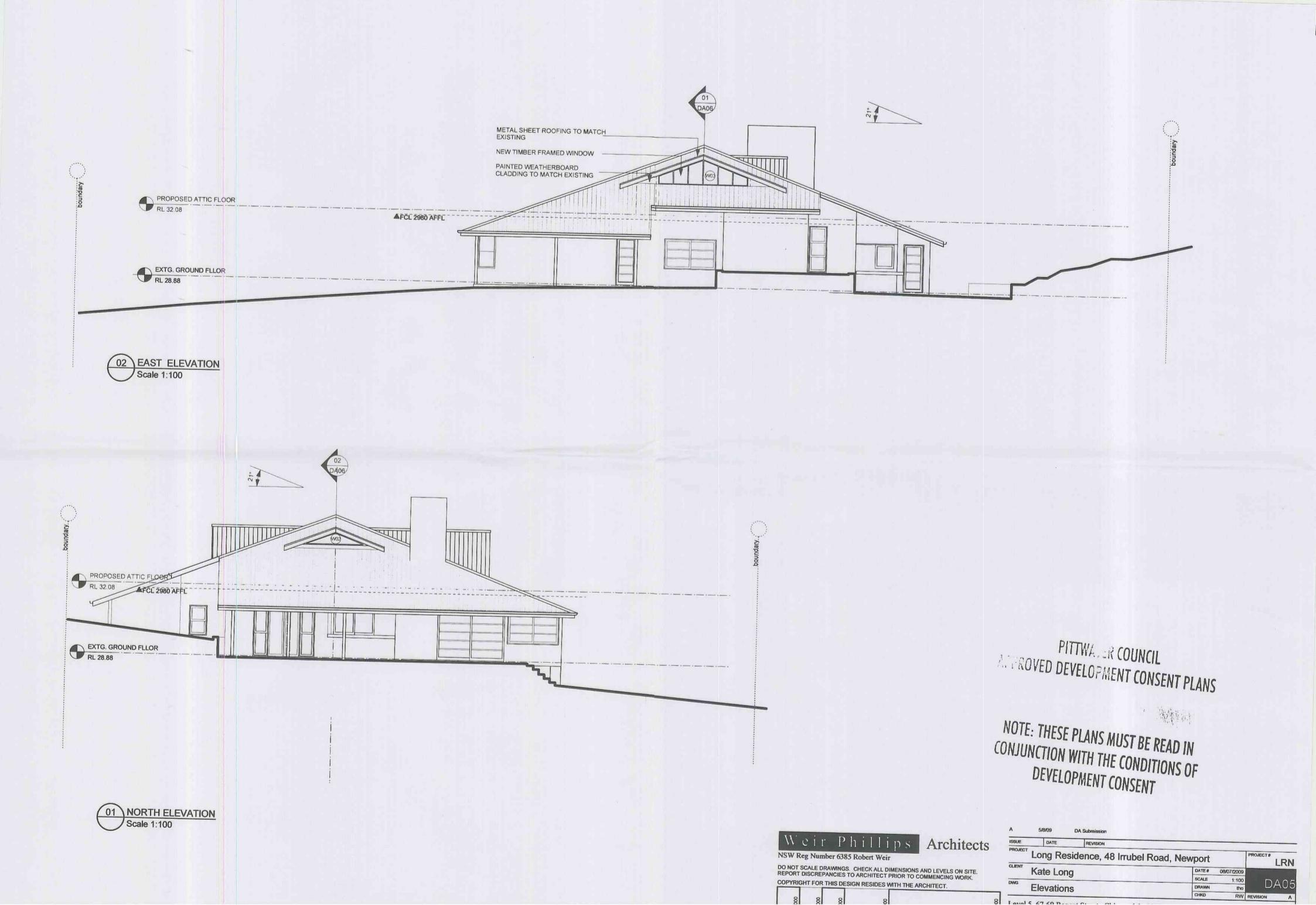
5/8/09 DATE Long Residence, 48 Irrubel Road, Newport LRN Kate Long DATE# 08/07/2009 BCALE 1:100 Cover Page

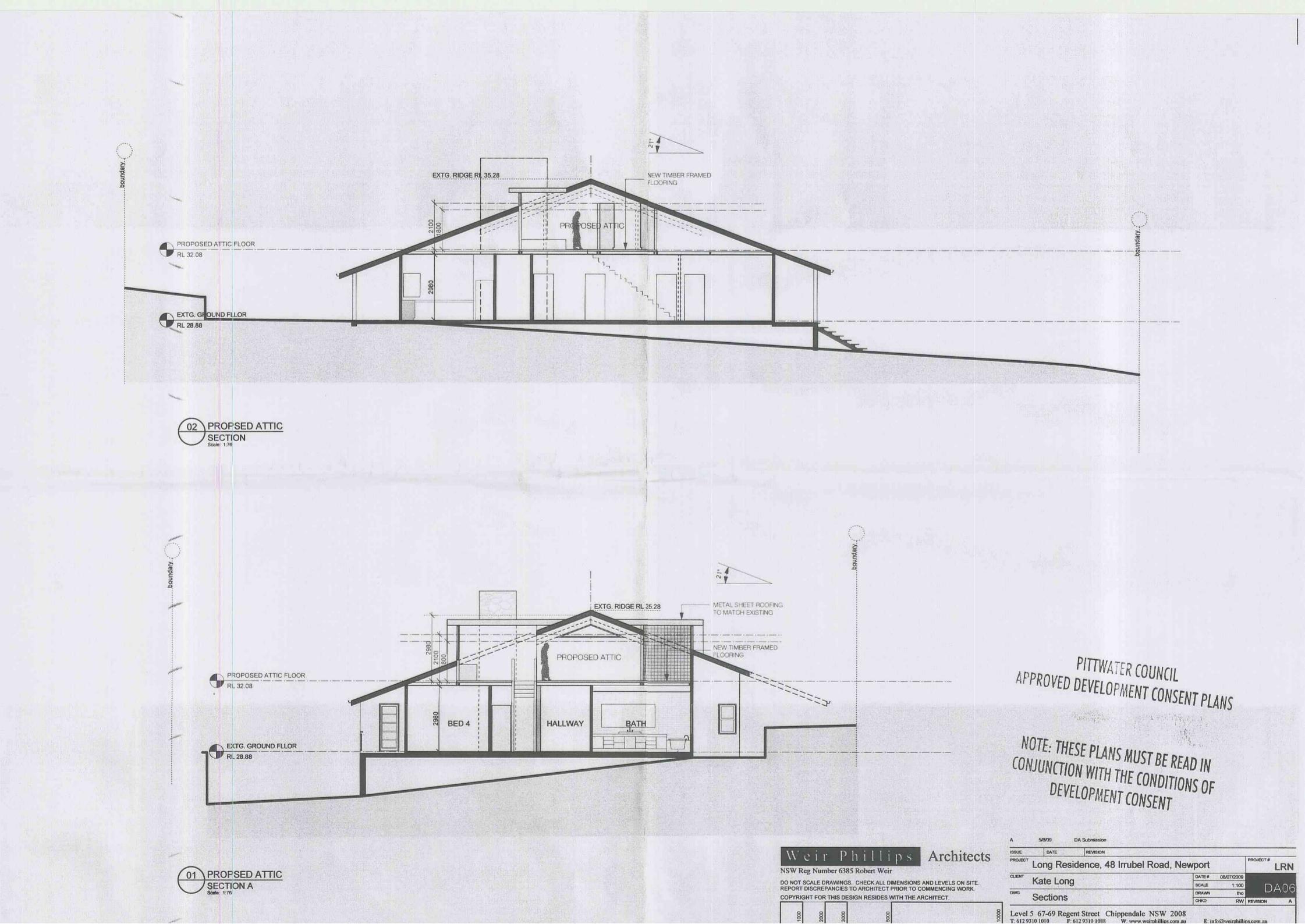
Architects















# General Housing Specifications







ADDRESS OF PROPERTY: 48 I RRUBE ( B) NEWPORT

**GENERAL HOUSING SPECIFICATIONS BETWEEN:** 

OWNER: KATE LONG

AND

CONTRACTOR: U-J BUILDING PTY XTD

CONTRACTOR LICENCE NO: 214-574 C

## HIA GENERAL HOUSING SPECIFICATIONS - NSW (INCORPORATING THE HIA GUIDE TO MATERIALS & WORKMANSHIP) REVISED SEPTEMBER 2009

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This is the Specification referred to in the Contract	No Date:				
Owner 1					
Name: KATE LONG					
Owner's Signature:	Date: 8/2/10				
Witness's name: UNEL JONES	Witness's signature:				
Owner 2					
Name:					
Owner's Signature:	Date:				
Witness's name: Witness's signature:					
Builder					
Name:					
Builder's Signature:	Date:				
Witness's name:	Witness's signature:				

HIA GENERAL HOUSING SPECIFICATIONS - NSW (INCORPORATING THE HIA GUIDE TO MATERIALS & WORKMANSHIP)
REVISED SEPTEMBER 2009

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## HIA GENERAL HOUSING SPECIFICATIONS - NSW (INCORPORATING THE HIA GUIDE TO MATERIALS & WORKMANSHIP) REVISED SEPTEMBER 2009

#### 1. INTRODUCTION

#### 1.1 General

This Specification forms part of the *Contract* documents referred to in the building *Contract* and details the works to be executed and the materials to be used in carrying out those works at the site.

This Specification shall be read as a general specification only. The extent of the works shall be governed by the approved plans and other requirements under the *Contract*.

Any works not fully detailed shall, where appropriate, be sufficiently performed if carried out in accordance with the *Building Code of Australia* (*BCA*), the relevant manufacturer's recommendations or *Engineer's Recommendations*.

#### 1.2 Preliminary Use

This Specification forms part of the Contract and should be read in conjunction with the other contract documents.

#### 1.3 Prevailing Documents

Where there is a difference between the plans and this Specification, this Specification will take precedence. The *Builder* must at all times maintain a legible copy of the plans and this Specification bearing the approval of the relevant *Local Authority*.

Otherwise to the extent of any conflict between documents, the order of precedence set out in the building contract shall apply.

#### 1.4 Size and Dimensions

All sizes and dimensions given in this Specification are in millimetres unless otherwise stated and are nominal only.

#### 1.5 Prime Cost and Provisional Sum Items

Prime cost items and provisional sum items are listed in the Schedule of Works.

#### 1.6 Definitions

In this Specification:

- "BCA" refers to the publication entitled Building Code of Australia Class 1 and Class 10 Buildings, Housing Provisions, Volume 2 published by the Australian Building Codes Board.
- "Engineer's Recommendations" includes any soil classification report, preliminary footing report, construction footing report and any other report, recommendation, site or other instruction, calculations or plans prepared by an engineer in respect of the works.
- Where the words "Local Authority" are mentioned they shall mean the local council, or other governing authority or private certifier with statutory responsibility for the compliance of the work performed.
- Where referred to in this Specification, "Regulations" shall mean the building Regulations and codes (including the BCA, as amended) statutorily enforceable at the time application is made for a construction certificate or other permits, consents or approvals relating to the Contract.
- The "HIA Guide" means the HIA Guide to Materials & Workmanship for Residential Building Work.

Unless the context suggests otherwise, terms used in this Specification shall have the same meaning as in the HIA Plain Language Building Contract between the *Owner* and the *Builder* ("Contract").

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#### 2. STATUTORY REQUIREMENTS

#### 2.1 The Building Works

The building works shall be constructed in accordance with:

- the Regulations and in particular the Performance Requirements referred to in the BCA, Housing Provisions, Volume 2;
- any conditions imposed by the relevant development consent or complying development certificate; and
- commitments outlined in the relevant BASIX Certificate

in so far as the Builder is required in accordance with the Schedule of Works annexed to this Specification.

#### 2.2 Compliance with Requirements of Authorities

The *Builder* is to comply with the requirements of all legally constituted authorities having jurisdiction over the building works and the provisions of the *Home Building Act 1989*.

#### 2.3 Electricity

Where there is no existing building, the *Builder* is to make arrangements for any electrical power to be used in the construction of the building works and is to pay fees and costs incurred therein. The cost of providing and installing any additional poles, wiring, service risers or underground wiring etc., as may be required by the electricity supply authority, shall be borne by the *Owner*.

#### 2.4 Sanitary Accommodation

Prior to the commencement of the building works, unless toilet facilities exist on the site, the *Builder* shall provide temporary toilet accommodation for the use of subcontractors. Where the *Local Authority* requires the temporary toilet to be connected to sewer mains, the additional cost of this work shall be borne by the *Owner*. On completion the *Builder* shall remove the convenience.

#### 3. OWNER'S OBLIGATIONS

#### 3.1 Engineer's Recommendations

If the *Contract* so indicates, the *Owner* shall, at the *Owner's* expense, provide the *Builder* with reports and recommendations (including soil classification) as to the foundations or footings requirements for the building works prepared by an engineer.

In these circumstances, if the *Builder* instructs any party to provide such recommendations, the *Builder* does so only as agent for the *Owner*.

#### 3.2 Trades Persons Engaged by Owner

The Owner shall not engage or employ any tradesperson, trade-contractor or any other person to work on the site without the consent of the Builder whose consent may be subject to such terms and conditions as the Builder may stipulate.

#### 3.3 Items Supplied by Owner

For all items referred to in this Specification to be supplied by the *Owner*, it is the responsibility of the *Owner* to arrange payment for delivery of and protection against damage and theft of all these items.

#### 3.4 Water Supply

Where there is no existing building on the site, the *Owner* shall, at the *Owner*'s expense, supply adequate water to the site for construction purposes. Unless otherwise specified, the *Builder* shall pay the standard water meter connection fee to the water supply authority provided this service is pre-laid to the site ready for use. The *Owner* shall be responsible for any fee to be paid in excess of the standard water meter connection fee.

#### 3.5 Sanitation

Unless otherwise specified:

- the *Owner* shall, at the *Owner*'s expense, supply sewerage connection riser or common effluent drainage connection riser on the site;
- the *Builder* shall pay the standard sewer connection fee to the sewerage supply authority provided this service is pre-laid to the site and ready for use; and

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• the Owner shall be responsible for any fee to be paid in excess of the standard sewer connection fee.

#### 4. PLANS, PERMITS AND APPLICATION FEES

#### 4.1 Permits and Fees

Subject to a contrary requirement under the *Contract*, the *Builder* shall lodge all necessary application notices, plans and details with the *Local Authority* for approval prior to commencement of construction.

#### 4.2 Mines Subsidence

In areas affected by mines subsidence, the appropriate authority is to be consulted and any work carried out in accordance with the authority's requirements.

#### 4.3 Setting Out

The Builder shall accurately set out the building works in accordance with the site plan and within the boundaries of the site.

#### 5. EXCAVATIONS

#### 5.1 Excavations

The part of the site to be covered by the proposed building or buildings and an area at least 1000mm wide around that part of the site or to the boundaries of the site, whichever is the lesser, shall be cleared or graded as indicated on the site works plan.

Top soil shall be cut to a depth sufficient to remove all vegetation.

Excavations for all footings shall be in accordance with the *Engineer's Recommendations* or the *BCA* requirements.

#### **%** FOUNDATIONS AND FOOTINGS

#### 6.1 Underfloor Fill

Underfloor fill shall be in accordance with the BCA.

#### 6.2 Termite Risk Management

Termite treatment shall be carried out in accordance with the BCA.

#### 6.3 Vapour Barrier

The underfloor vapour barrier shall be 0.2 mm nominal thickness, high impact resistance polyethylene film installed in accordance with the BCA.

#### 6.4 Reinforcement

Reinforcement shall conform and be placed in accordance with the Engineer's Recommendations and the BCA.

Support to all reinforcement shall be used to correctly position and avoid any undue displacement of reinforcement during the concrete pour.

#### 6.5 Concrete

Structural concrete shall not be less than Grade N20 except where otherwise approved by the engineer and in accordance with the *BCA*.

Pre-mixed concrete shall be manufactured in accordance with AS 1879 with delivery dockets kept on site and available for inspection by the engineer.

Concrete shall be placed and compacted in accordance with good building practice.

#### 6.6 Curing

All concrete slabs shall be cured in accordance with AS 3600.

#### 6.7 Footings and Slabs on Ground

Concrete slabs and footings shall not be poured until approval to pour concrete is given by the engineer or the Local Authority.

NOTE: Bench levels and floor levels on the site works plan shall be regarded as nominal, unless specified otherwise.

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#### 6.8 Suspended Slabs

All concrete slabs, other than those supported on solid ground or properly compacted filling, shall be constructed as suspended slabs. These slabs shall be constructed in accordance with the Engineer's Recommendations.

#### 6.9 Foundation Walls

On footings as previously specified, brick walls are to be built to the thickness shown on plan to level underside of floor bearers or plates.

#### 6.10 Sub-Floor Ventilation

Where required, adequate cross ventilation will be provided to the space under suspended ground floor. Construction is to meet the requirements of the *BCA*. No section of the under floor area wall to be constructed in such a manner that will hold pockets of still air.

#### 6.11 Sub-Floor Access

If required, access will be provided under suspended floors in position where indicated on plan.

#### 7. RETAINING WALLS

#### 7.1 Retaining Walls

Where the *Builder* is required by the Schedule of Works annexed to this Specification, the *Builder* shall construct retaining walls as shown on the approved plans. Where a retaining wall is not included in the Schedule of Works, the construction of the retaining wall shall be the responsibility of the *Owner*.

#### 8. EFFLUENT DISPOSAL/DRAINAGE

#### 8.1 Effluent Disposal/Drainage

In both sewered and unsewered areas:

- (a) bath, wash basin, kitchen, wash tubs, pedestal pan and floor grate shall be fitted to shower recess in positions shown on plan (refer to Schedule of Works); and
- (b) waste pipes with traps shall be provided to the above fittings and connected to the drainage system.

The whole of the work is to be performed in accordance with the rules and requirements of the sewerage authority concerned.

#### 8.2 Septic System

The *Builder* will provide and install a septic system where applicable to the requirements of the *Local Authority* and in accordance with the manufacturer's recommendations.

#### 8.3 Storm Water Drainage

Stormwater drainage shall be carried out in accordance with the BCA.

The Builder will allow for the supplying and laying of stormwater drains where shown on the site plan

#### 9. TIMBER FRAMING

#### 9.1 Generally

All timber framework sizes, spans, spacing, notching, checking and fixing to all floor, wall and roof structures shall comply with the *BCA* or AS 1684. Alternative structural framing shall be to structural engineer's details and certification.

The work shall be carried out in a proper and tradesperson like manner and shall be in accordance with recognised and accepted building practices.

#### 9.2 Floor Framing

All floors not specified to be concrete are to be framed at the level shown. Span and spacing of bearers is to conform to the requirements of the span tables for the appropriate member size. Deep joists to upper floors, where shown, are to be fitted with solid blocking or herringbone strutting as required. All sizes and stress grades of timber members and tie down methods are to be in accordance with AS 1684.

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#### 9.3 Wall Framing

Plates may be trenched to provide uniform thickness where studs occur. Where plates are machine gauged to a uniform thickness, trenching may be omitted. Wall framing is to be erected plumb and straight and securely fastened to floor framing. The *Builder* will provide a clear space of 40mm between outer face of wall frame and inner face of brick veneer walls. The *Builder* will tie brickwork to studs with approved veneer ties. Ties are to slope downwards towards the veneer wall.

Studs in each panel of walling shall be stiffened by means of solid noggings or bridging pieces at not more than 1350 mm centres over the height of the wall. Bottom plates shall be fixed to the floor structure in accordance with AS 1684.

#### 9.4 Heads Over Opening (Lintels)

All sizes, stress grades and bearing areas shall conform to AS 1684. Heads exceeding 175 mm in depth shall be seasoned or a low shrinkage timber species will be used. Plywood web lintels conforming to the requirements of the Plywood Association of Australia may be used. Glue laminated beams conforming to AS 1328 or laminated veneer lumber beams to manufacturer's specification and data sheets may be used.

#### 9.5 Roof Trusses

Where roof truss construction is used, trusses shall be designed in accordance with AS 1720 and fabricated in a properly equipped factory and erected, fixed and braced in accordance with the fabricator's written instructions.

#### 9.6 Bracing

Bracing units shall be determined and installed in accordance with AS 1684 as appropriate for the design wind velocity for the site. Bracing shall be evenly distributed throughout the building.

#### 9.7 Flooring

Floor joists will be covered with strip or sheet flooring as shown on plan with particular regard to ground clearance and installation in wet areas as required by the *BCA*. Thickness of the flooring is to be appropriate for the floor joist spacing.

Strip and sheet flooring shall be installed in accordance with AS 1684.

When listed in Schedule of Works, floors shall be sanded to provide an even surface and shall be left clean throughout.

#### 9.8 Roof Framing

Roofs are to be pitched to the slope shown on plan. The *Builder* will provide tie-down as required for the appropriate design, wind speed and roof covering. The *Builder* will provide all rafters, ridges, hips, valleys, purlins, struts, collar ties and wind bracing as appropriate with all sizes and stress grades in accordance with AS 1684

Metal fascias shall be installed in accordance with the manufacturer's recommendations and shall meet the requirements of AS 1684.

#### 9.9 Timber Posts

Posts supporting carports, verandas and porches shall be timber suitable for external use, or as otherwise specified, supported on galvanised or treated metal post shoes, unless otherwise specified. Posts shall be bolted to all adjoining beams as required by AS 1684 for the wind speed classification assessed for the site.

#### 9.10 Corrosion Protection

All metal brackets, facing plates and other associated fixings used in structural timber joints and bracing must have appropriate corrosion protection.

#### 9.11 Hot Water Storage Tank Platforms

Where a hot water storage tank is to be installed in the roof space, the tank platform shall be supported directly off the wall plates and must not be supported on ceiling joists. Where installed in the roof space the storage tank shall be fitted with an appropriate spill tray and overflow drain pipe.

Where a hot water storage tank is supported by the roof structure the structure shall be specifically designed to support all imposed loads

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#### 10. STEEL FRAMING

#### 10.1 Generally

Steel floor, wall or roof framing shall be installed in accordance with the manufacturer's recommendations and the BCA.

#### 11. ROOFING

All roof cladding is to comply with the relevant structural performance and weathering requirements of the *BCA* and be installed as per the manufacturer's recommendations.

#### 11.1 Tiled Roofing

The *Builder* will cover the roof of the dwelling with approved tiles as selected. The tiles are to be fixed (as required for the appropriate design and wind speed) to battens of sizes apprepriate to the spacing of rafters/trusses in accordance with manufacturers recommendations. The *Builder* will cover hips and ridges with capping and all necessary accessories including starters and apex caps. Capping and verge tiles are to be well bedded and neatly pointed. Roofing adjacent to valleys should be fixed so as to minimise water penetration as far as praeticable. As roof tiles are made of natural products slight variation in colour is acceptable.

#### 11.2 Metal Roofing

The Builder will provide and install a metal roof together with accessories all in accordance with the manufacturer's recommendations.

Except where design prohibits, sheets shall be in single lengths from fascia to ridge. Fixing of sheets shall be strictly in accordance with the manufacturer's recommendations as required for the appropriate design and wind speed. Incompatible materials shall not be used for flashings, fasteners or downpipes.

#### 11.3 Gutters and Downpipes

Gutters and downpipes shall be manufactured and installed in accordance with the BCA. Gutters and downpipes are to be compatible with other materials used.

#### 11.4 Sarking

Sarking under roof coverings must comply with and be fixed in accordance with AS/NZS 4200.1 for materials and AS/NZS 4200.2 for installation.

#### 11.5 Sealants

Appropriate sealants shall be used where necessary and in accordance with manufacturer's recommendations.

#### 11.6 Flashing

Flashings shall comply with, and be installed in accordance with the BCA.

#### 12. MASONRY

#### 12.1 Bricks

All clay bricks and brickwork shall comply with AS 3700 and the *BCA*. Clay bricks are a natural kiln fired product and as such their individual size may vary.

Tolerances shall only be applied to the total measurements over 20 units, not to the individual units.

#### 12.2 Concrete Blocks

Concrete blocks are to be machine pressed, of even shape, well cured and shall comply with AS 3700. Concrete blockwork shall be constructed in accordance with the BCA.

Autoclaved aerated concrete blocks shall be in accordance with the manufacturer's product specification at the time the work is being carried out.

#### 12.3 Damp Proof Courses

All damp proof courses shall comply with the *BCA* and Clause 1.0.10. The damp proof membrane shall be visible in the external face of the masonry member in which it is placed and shall not be bridged by any applied coatings, render or the like.

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#### 12.4 Cavity Ventilation (Weepholes)

Open perpendicular joints (weepholes) must be created in the course immediately above any DPC or flashing at centres not exceeding 1.2m and must be in accordance with the *BCA*.

#### 12.5 Mortar and Joining

Mortar shall comply with the BCA. Joint tolerances shall be in accordance with AS 3700

#### 12.6 Masonry Accessories

Masonry accessories shall comply with the *BCA* and accepted building practices. Wall ties are to meet the corrosion resistant rating appropriate for the exposure conditions of the site. The *Builder* will provide appropriate ties to articulated joints in masonry.

#### 12.7 Lintels

Lintels used to support brickwork opening in walls must be suitable for the purpose as required by the *BCA*. The *Builder* will provide one lintel to each wall leaf. The *Builder* will provide corrosion protection in accordance with the *BCA* Part 3.4.4 as apprepriate for the site environment and location of the lintels in the structure.

#### 12.8 Cleaning

The Builder will clean all exposed brickwork with an approved cleaning system. Care should be taken not to damage brickwork or joints and other fittings.

#### 13. CLADDING AND LININGS

#### 13.1 External Claddings

Sheet materials or other external cladding shall be fixed in accordance with the manufacturer's recommendations and any applicable special details.

Where required in open verandas, porches and eaves soffits, material indicated on the plans shall be installed.

#### 13.2 Internal Wall and Ceilings Linings

The *Builder* will provide gypsum plasterboards or other selected materials to walls and ceilings. Plasterboard sheets are to have recessed edges and will be a minimum of 10mm thick. Internal angles in walls from floor to ceiling are to be set. Suitable cornice moulds shall be fixed at the junction of all walls and ceilings or the joint set as required. The lining of wet area walls shall be constructed in accordance with the *BCA*. Wet area lining is to be fixed in accordance with the manufacturer's recommendations.

The ceiling access hole shall be of similar material to the adjacent ceiling.

#### 13.3 Waterproofing

All internal wet areas and balconies over internal habitable rooms are to be waterproofed in accordance with the BCA.

#### 14 JOINERY

#### 14.1 General

All joinery work (metal and timber) shall be manufactured and installed according to accepted building practices.

#### 14.2 Door Frames

External door frames shall be a minimum of 32 mm thick solid rebated 12 mm deep to receive doors. Internal jamb linings shall be a minimum of 18 mm thick fit with 12 mm thick door stops. Metal door frames shall be installed where indicated on drawings in accordance with the manufacturer's recommendations.

#### 14.3 Doors and Doorsets

All internal and external timber door and door sets shall be installed in accordance with accepted building practices. Unless listed otherwise in the Schedule of Works, doors and door sets shall be manufactured in accordance with AS 2688 and AS 2689.

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#### 14.4 Window and Sliding Doors

Sliding and other timber windows and doors shall be manufactured and installed in accordance with AS2047.

Sliding and other aluminium windows and doors shall be installed in accordance with manufacturer's recommendations and AS2047.

All glazing shall comply with the BCA and any commitments outlined in the relevant BASIX Certificate

#### 14.5 Architraves and Skirting

The Builder will provide architraves and skirting as nominated on the plans or listed in the Schedule of Works.

#### 14.6 Cupboards/Kitchens/Bathroom

Units shall be installed to manufacturer's recommendations. Bench tops shall be of a water resistant material.

#### 14.7 Stairs, Balustrades and other Barriers

The *Builder* will provide stairs or ramps to any change in levels, and balustrades or barriers to at least one side of ramps, landings and balconies as per the *BCA*.

#### 15. SERVICES

#### 15.1 Plumbing

All plumbing shall comply with the requirements of the relevant supply authority and AS 3500. The work is to be carried out by a licensed plumber.

Fittings, as listed in the Schedule of Works, shall be supplied and installed to manufacturer's recommendations. Fittings, hot water systems and any rainwater harvesting facilities shall be appropriate to satisfy any commitment outlined in the relevant BASIX Certificate

#### 15.2 Electrical

The *Builder* will provide all labour and materials necessary for the proper installation of the electricity service by a licensed electrician in accordance with AS/NZS 3000 and the requirements of the relevant supply authority. Unless otherwise specified, the electrical service shall be 240 volt, single phase supply.

#### 15.3 Gas

All installation (including LPG) shall be carried out in accordance with the rules and requirements of the relevant supply authority.

#### 15.4 Smoke Detectors

The *Builder* will provide and install smoke alarms manufactured in accordance with AS 3786 as specified or as indicated on the plans and in accordance with the *BCA*.

#### 15.5 Thermal Insulation

Where thermal insulation is used in the building fabric or services, such as air conditioning ducting or hot water systems, it shall be installed in accordance with manufacturer's recommendations to achieve the R-Values required by the *BCA* or as outlined in the relevant BASIX Certificate.

#### 16. TILING

#### 16.1 Materials

Cement mortar and other adhesives shall comply with AS 3958.1 or tile manufacturer's recommendations.

#### 16.2 Installation

Installation of tiles shall be in accordance with AS 3958.1, manufacturer's recommendations or accepted building practices.

Where practicable, spacing between tiles should be even and regular. The *Builder* will provide expansion joints where necessary. All vertical and horizontal joints between walls and fixtures e.g. bench top, bath, etc. and wall/floor junctions to be filled with flexible mould resistant sealant. All joints in the body of tiled surfaces shall be neatly filled with appropriate grout material as specified by the tile manufacturer or accepted building practice. As tiles are made of natural products a slight variation in colour is acceptable.

#### 16.3 Walls

The *Builder* will cover wall surfaces where indicated on the drawings with selected tiles. Tiles are to be fixed to the wall substrate with adhesives compatible with the substrate material. The *Builder* will provide all required strips, vent tiles and recess fittings.

#### 16.4 Floors

The *Builder* will lay selected floor tiles in sand and cement mortar, or adhesive compatible with the substrate material, to areas indicated on the drawings. Where required, the *Builder* will fit approved edge strips or metal angle to exposed edges in doorways or hobless showers in wet areas in accordance with the *BCA*. The *Builder* will provide adequate and even fall to wastes where required.

#### 17. PAINTING

#### 17.1 General

All paint used shall be of a quality suitable for the purpose intended and the application shall be as per the manufacturer's recommendations. The colours used shall be as listed in the Schedule of Works or other relevant contract document. All surfaces to be painted shall be properly prepared to manufacturer's recommendations.

#### 18. WORKMANSHIP STANDARDS AND TOLERANCES

#### 18.1 General

These general specifications incorporate the *HIA Guide*. By agreeing to these specifications, the *Owner* agrees that he/she has been provided a copy and has had the opportunity to read the *HIA Guide*.

The HIA Guide is to be used by the Builder and Owner as a point of reference for information on workmanship standards and tolerances, and amongst things, in deciding whether an alleged defect exists and/or whether the materials used and/or workmanship are in accordance with the plans and specifications.

The parties agree to use the HIA Guide in precedence over any other non legislated guide to standards and tolerances.

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ANNEXURE

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ALL MATERIALS ARE TO MATCH EXISTING DETAILS &
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# **BASI** Certificate

Building Sustainability Index www.basix.nsw.gov.au

# Alterations and Additions

Certificate number: A63944

This certificate confirms that the proposed development will meet the NSW government's requirements for sustainability, if it is built in accordance with the commitments set out below. Terms used in this certificate, or in the commitments, have the meaning given by the document entitled "BASIX Alterations and Additions Definitions" dated 29/9/2006 published by Department of Planning. This document is available at www.basix.nsw.gov.au

Director-General Date of issue: Friday, 14, August 2009



NSW GOVERNMENT

Department of Planning

#### My renovation work is valued at \$50,000 or more, and does not include a pool (and/or spa). 48 Irrubel Road Newport 2106 Long Residence Newport Separate dwelling house Deposited Plan 408151 Pittwater Council V 0 Local Government Area Plan type and number Type of alteration and Project address Section number Street address Project name Dwelling type Project type Lot number addition noidqi project 10



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Fixtures and systems	<b>-ighting</b> The applicant must ensure a minimum of 40% of new or altered light fixtures are fitted with fluorescent, compact fluorescent, or light-emitting-diode (LED) lamps.	The applicant must ensure new or altered showerheads have a flow rate no greater than 9 litres per minute or a 3 star water rating	The applicant must ensure new or altered toilets have a flow rate no greater than 4 litres per average flush or a minimum 3 star water rating.						

Building Sustainability Index www.basix.nsw.gov.au

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The applicant must construct the new or altered construction (floor(s), walls, and ceilings/roofs) in accordance with the specifications listed in the table below, except that a) additional insulation is not required where the area of new construction is less than 2m2, b) insulation specified is not required for parts of altered construction where insulation already exists.

Construction	Additional insulation required (R-value)	Other specifications
floor above existing dwelling or building.	nil	
external wall: framed (weatherboard, fibro, metal clad)	R1.30 (or R1.70 including construction)	
raked ceiling, pitched/skillion roof: framed	ceiling: R0.74 (up), roof: foil backed blanket	medium (solar absorptance 0.475 - 0.70)
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The applicant must ir Relevant overshadow	istall the windows ving specifications	s, glazed do s must be s	oors and sha	The applicant must install the windows, glazed doors and shading devices, in accordance with the Relevant overshadowing specifications must be satisfied for each window and glazed door.	The applicant must install the windows, glazed doors and shading devices, in accordance with the specifications listed in the table below. Relevant overshadowing specifications must be satisfied for each window and glazed door.	the state and security and	>	>
The following requirements must also be satisfied in relation to each window and	ments must also	be satisfied	in relation	to each window and glazed door:		,	>	>
Each window or glaz have a U-value and a must be calculated in	ed door with stan s Solar Heat Gain accordance with	dard alumir Coefficien National F	nium or timb t (SHGC) no enestration	Each window or glazed door with standard aluminium or timber frames and single clear or tonec have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions.	Each window or glazed door with standard aluminium or timber frames and single clear or toned glass may either match the description, or, have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that listed in the table below. Total system U-values and SHGCs must be calculated in accordance with National Fenestration Rating Council (NFRC) conditions.		>	>
For projections described in millimetres, the leading edge of each eave, pergola, above the head of the window or glazed door and no more than 2400 mm above	ibed in millimetre e window or glaze	s, the leadi ed door and	ng edge of d no more th	each eave, pergola, verandah, balc han 2400 mm above the sill.	verandah, balcony or awning must be no more than 500 mm the sill.	>	>	>
Pergolas with polyca	rbonate roof or si	milar transl	ucent mater	Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of less than 0.35.	t of less than 0.35.		>	>
External louvres and	blinds must fully	shade the	window or g	External louvres and blinds must fully shade the window or glazed door beside which they are situated when fully drawn or closed.	situated when fully drawn or closed.		>	>
Pergolas with fixed b shades a perpendicu	attens must have	battens pa spacing bet	arallel to the tween batte	Pergolas with fixed battens must have battens parallel to the window or glazed door above whic shades a perpendicular window. The spacing between battens must not be more than 50 mm.	Pergolas with fixed battens must have battens parallel to the window or glazed door above which they are situated, unless the pergola also shades a perpendicular window. The spacing between battens must not be more than 50 mm.		>	>
Windows and glazed doors glazing requirements	azed doors g	lazing re	quiremen	ıts				
Window Orientation / door no.		Area of Overshadowing glass Height Distan inc. (m) (m) (m) (m2)	Jowing Distance (m)	Shading device				
W1 W	2	0	0	external louvre/blind (adjustable)	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			
W2 N	ept that at addition	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			7
W3 E	3	0	0	eave/verandah/pergola/balcony >=450 mm	timber or uPVC, single clear, (or U-value: 5.71, SHGC: 0.66)			

### Legend

In these commitments, "applicant" means the person carrying out the development.

Commitments identified with a ""," in the "Show on DA plans" column must be shown on the plans accompanying the development application for the proposed development (if a development application is to be lodged for the proposed development). Commitments identified with a "\_" in the "Show on CC/CDC plans & specs" column must be shown in the plans and specifications accompanying the application for a construction certificate / complying development certificate for the proposed development.

Commitments identified with a "\_v" in the "Certifier check" column must be certified by a certifying authority as having been fulfilled, before a final occupation certificate for the development may be issued.

ADREOR THORNES BURGES OF A CANADA

barranent, of Cananing

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#### **APPLICATION FOR A CONSTRUCTION CERTIFICATE**

Construction Certificate

COPY		1 5 FEB 2010	Modified Constructio	n Certificate
	B	Commence was now made that they are not too that the days		
Applicant's details  It is important that we are able to	o contact you if we nee	ed more information. Please	give us as much details as poss	ible
Mr Mrs Ms	Dr	Other		
Given Names (or ACN)		nily Name (or Company)		
KATE		LONG-	entre dit did tota di tita di comprende provide di di di contra di distributiva propri di distributi di di di c	
Postal Address (we will post all ma			metric relations contracted as a females. "Inscription of signature of signature of processing space of the source of the signature of the source of the source of the signature of the source of the source of the signature of the source of the signature of the source of the signature of the sign	
48 IRRUBE	LRD	NOUPOR	NSW	
	Andreas and registration on disease and a company in the company distribution and the size of the size		Post Code	2106
Daytime telephone	Alternate		Mobile no.	
02 9940 155	5 02	93023999	1041374	7109
signed by the Chairman or Secreta  Owner(s)	iry of the Owners Corp	poration or the appointed Ma	naging Agent.	
KATE LON	J.G			
Address AS ABOVE				
As owner(s) of the land to which the Certifying Authority and/or Accressignature(s)  Without the owner's consent we wien the owner's behalf as the owner evidence (eg, power of attorney, expensely and the owner's extended to the owner's extended t	dited Certifier to ente	er the land to carry out inspe ation. This is a very strict r you must state the nature o	ctions relating to this applicat	ion.
Location of propert				
Unit/Street no. Street n				A STATE OF THE STA
48 FRA	eviste	RD	Post co	de
NEWPORT	WSW		2/2	2106
Legal Property Description (these c	letails are shown on yo	ur rate notices, property de	eds, etc)	
Lot no. DP no.				
A 140	8151		A STATE OF THE STA	

4.	Description of work
٧	What type of work do you propose to carry out?
Р	Please describe briefly everything that you want approved.
	Renovation to attic space - convert to "parents retreat" with balk in nandrobe, ensuite + 3 x domer mindows.
5. 1	Estimated cost of work
T	The estimated cost of the development or contract price may be subject to review
E	stimated cost of work \$141,394-00.
6.	Development Consent
C	ouncil Consent no. DA No N0353/09 Date of Determination 30/9/09
7.	Building Code of Australia classification
Т	his can be found on the development consent  BCA Classification
8.	Builder's details
I	f known, to be completed in the case of residential building work
Ν	lame KATE LONG _ Licence no.
	Owner/builder permit no. 373172P
9. /	Applicant's declaration
al be	apply for a Construction Certificate to carry out building works as described in this application. I declare that the bove Development Consent is valid and that no building works associated with this application have commenced. To the est of knowledge, all the information in this application and checklist is true and correct.    Date   Consent is valid and that no building works associated with this application have commenced. To the est of knowledge, all the information in this application and checklist is true and correct.

#### SUBMISSION REQUIREMENTS

# A. GENERAL

M

Are the plans submitted with the Construction Certificate Application in accordance with the Development Consent? Yes 🛛 No 🗌 Have all the conditions of Development Consent relating to the issue of the Construction Certificate been fully complied with? Yes X No 🔲 If you have answered NO to either of the above questions, then you will need to speak with the Accredited Certifier BEFORE LODGING YOUR APPLICATION. B. ALL PROPOSALS (has the following required information been submitted?) In the case of an application for a Construction Certificate for Not Yes No Applicable building work: Three (3) copies of detailed architectural plans and specifications X 

15 10	<i>)</i> .
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 that
	floor and the levels of the adjacent ground
d)	indicate the height, design, and full construction details
0)	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, an П 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 or rebuilding with a separate letter listing the proposed changes being submitted.

M	<ul> <li>3 copies of a specification: (N) (N)</li> <li>a) to describe the construction and materials of which the building is to be built and the method of drainage, sewerage and water supply</li> </ul>
	<li>state whether the materials proposed to be used are new or second hand and give particular</li>

Where the proposed building work involves a modification to previously approved plans and ÌXÍ П 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 1 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: M 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 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.

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

This list must describe the extent, capability and basis of design of each of the measures concerned.

K		Copy of BASIX Certificate & Schedule of BASIX Commitments.
A		Copy of signed BASIX Compliance Statement.
		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)

PARTICULARS OF THE PROPOSAL

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 SERVBICE LEVY AND HOME BUILDING ACT 1989 INSURANCE (APPLICABLE TO RESIDENTIAL PROPERTIES) HAVE BEEN PAID, OR EVIDENCE OF THE EXEMPTION PROVIDED TO COUNCIL.

What is the area of the land (m²)? 1440 m² Gross floor area of building (m²) as proposed:

			( , ,			100			
	already	bui	It upon	•	B	VhDA	406.	19m	2
	What are the curre building(s)/land?	nt uses o	of all or parts	of the	Location:			(exist	5 mg
	RES	100	WTIAL	mainta	Use: RESINO	MAL			×
	Does the site contain o	a dual occi	upancy?		What is the gross floo building (sq metres)?	r area of th		addition or	new
	What are the propose land?	d uses of	all parts of the		Number of pre-existing (	dwellings:			
	Number of dwellings to	o be demo	lished:		How many dwellings prop	osed? loliho	n to	exis.	K-y
NAME AND ADDRESS OF THE OWNER, OF TAXABLE PARTY AND ADDRESS OF TAXABLE PAR	How many storeys will	the buildi	ng consist of?		Will the new building be	attached to t	he existing b	uilding?	
	2				Will the new building be	attached to a	ny new buildi	ng?	
!	MATERIALS TO BE USE	<u>ED</u>							
	The following information	on must b	e supplied for t	he Australia	n Bureau of Statistics:				
1	Place a tick ( $\sqrt{\ }$ ) in the b	ox which I	best describes t	he materials	s the new work will be cons	tructed of:			
	WALLS Brick veneer		FLOOR Concrete		ROOF Aluminium		FRAME Timber		
	Full brick		Timber		Concrete		Steel		
	Single brick		Other		Concrete tile		Other		
	Concrete block		Unknown		Fibrous cement		Unknown		
	Concrete/masonry				Fibreglass				
	Concrete				Masonry/terracotta shingle				
	Steel				Tiles				
	Fibrous cement				Slate				
	Hardiplank				Steel				
	Timber/weatherboard				Terracotta tile				
	Cladding-aluminium				Other				
	Curtain glass				Unknown				
	Other								
	Unknown								

# **GENERAL NOTES**

G1 - These drawings are to be read in conjunction with all architectural and other consultants drawings and specifications. Any discrepancies are to be referred to all parties and rectified before proceeding with the works.

 ${f G3}$  - During construction the structure shall be kept in a stable condition and no G2 - Dimensions shall not be obtained by scaling from these drawings.

Australian Standards, OH&S requirements, and the by-laws and ordinances of part shall be over stressed. G4 - All materials and workmanship are to be in accordance with the current any relevant statutory authority.

# FOUNDATIONS

Refer to the Geotechnical Risk Assesment by Jack Hodgson Consultants

for slope stability and foundation strata review.

F2 -The foundation material is to be inspected, verified and approved by a F1 - The foundation material is to be NA bearing capacity.

Geotechnical Consultant as being in accordance with the above assumption and that it is sound and consistent with minimal possibility of differential settlement across the development.

contacted and it is likely all foundations are to be piered to similar material of the F3 - Should variable foundation material be encountered the engineer is to be greatest bearing capacity and that additional detailing of the foundation

F4 - Any excavation works are to include measures to ensure the temporary and long term stability of any existing structure within its vicinity reinforcement will be required.

F5 - All foundations shall be a minimum 300mm into the approved material

F6 - Foundation depth dimensions are a minimum only and final depth will be unless otherwise noted.

dependent on the adequacy of the bearing material.

F7 - All organic matter and top soil shall be removed from the underside of all

F8 - Any soft or questionable excavated areas are to be brought to the attention slabs and foundations.

F9 - Any filling shall be to the approval of the Geotechnical Consultant and will generally be granular material compacted in not more than 150mm layers to a of the Geotechnical Consultant and may require controlled filling.

minimum dry density ratio of 98%.

C1 - All workmanship and materials shall be in accordance with AS3600.

C3 - All concrete shall have a slump of 80mm and maximum aggregate size of C2 - Concrete quality shall be verified by tests.

C4 - Concrete strength and cover shall be as detailed on the plans.

C5 - Size of concrete members do not include thickness of applied finishes.

C7 - No penetrations are to be made to the concrete members without the C6 - Beam depths are written first and include slab thickness if any. written approval of the engineer.

C10 - Fire rating requirements and adequacy is to be reviewed and specified by C9 - All construction joints shall be located to the approval of the engineer. C8 - No water is to be added to the concrete prior to placement.

continuously wet for a period of 3 days followed by the prevention of loss of C11 - All concrete members are to be cured by keeping the surfaces moisture for a further 7 days.

C12 - All concrete elements shall be compacted to form a dense homogenous

mass using mechanical vibrators. C13 - All formwork shall be installed and stripped in accordance with AS3610. C14 - All formwork is to be free of debris prior to pouring of concrete.

R1 - All reinforcement shall be Grade D500.

R2 - Top reinforcement is to be continuous over supporting elements and lapped R3 - Bottom reinforcement is to be continuous between supporting elements and between supporting elements only.

lapped at supporting elements only

R4 - Reinforcement is represented diagrammatically only and is not necessarily shown in its true projection.

R6 - All reinforcement shall be supported on bar chairs at max 750mm spacing R5 - Welding of reinforcement is not permitted.

R7 - Reinforcement shall be tied at alternate intersections.

R8 - Reinforcement bars are to lap a minimum length equal to 40 times the bar R9 - Reinforcement fabric is to lap 1 complete square plus 25mm. diameter (ie min 480mm for N12 bars, 640mm for N16 bars)

# MASONRY

M1 - All workmanship and materials shall be in accordance with AS3700.

M2 - An approved slip joint material is to be placed over all load bearing masonry supporting a concrete slab and laid on smooth brick work or a trowed mortar finish, this material may constitute two layers of greased metal.

M3 - Masonry shall be constructed on suspended concrete structures only after all propping has been removed and the concrete has achieved its specified strength.

and sealed with an approved flexible sealant, with ties at 600mm centres vertical M4 - Control joints are to be placed in all walls at a maximum of 8m centres or closer as deemed necessary by the engineer. The joints are to be 10mm wide

M6 - Core filling shall be 20 MPa concrete with 10mm aggregate, 230mm slump M5 - Concrete blocks shall have a minimum compressive strength of 15 MPa. and compacted adequately.

M7 - Concrete blocks used in retaining wall construction are to be Double Web H

M9 - All masonry components are to be tied at not more than 600mm centres to M8 - Maximum pour height for unrestrained blockwork is 1.8m. adjacent steel or concrete columns.

# STEEL

S1 - All workmanship and materials shall be in accordance with AS4100 S2 - Hot rolled plates shall comply with AS 3678.

S3 - Hot rolled sections shall comply with AS3679.

S4 - Cold formed sections shall comply with AS4600.

S6 - Unless noted otherwise all welds shall be 6mm continuous fillet from E4xx S5 - Welded and seamless hollow sections shall comply with AS1163.

S7 - Unless noted otherwise all bolts shall be M16 high strength structural bolts electrodes, unless noted otherwise. grade 8.8, snug tightened, uno.

S8 - Unless noted otherwise all connections shall be 3M16 bolts, 10mm plate and 6mm continuous weld

S9 - All structural steel work shall have the following level of corrosion protection (coatings listed below by ORICA Australia p/l maybe substituted with a certified equivalent) All coatings/finishes shall be applied in accordance with the manufacturers specifications and recommendations including surface preparation.

visible - a first coat (75 microns) of Zincanode 402 and a second coat (100 not visible - a single coat (75 microns) of Zincanode 402. microns) of Weathermax HBR.

External elements (including members with an external cavity or within 1m of a

not visible - a first coat (75 microns) of Zincanode 402 and a second coat (200 microns) of Duremax GPE MIO

visible - a first coat (75 microns) of Zincanode 402 and a second coat (200 or Hot Dipped Galvanised to AS 4680.

microns) of Duremax GPE MIO and a third coat (100 microns) of Weathermax or Hot Dipped Galvanised to AS 4680 and a decorative coating.

\$10 - All work shop drawings are to be reviewed and approved by the Engineer

# TIMBER T1 - All workmanship and materials shall be in accordance with AS1720 and

AS1684.

T3 - All timber in contact with the ground shall be H4 treated or of durability class T2 - All exposed timber shall be H3 treated or of durability class 1.

T4 - All exposed cuts shall be treated to achieve H3 or H4 requirements. T5 - All softwood shall be minimum F7.

T7 - All bolt hole s shall be exact size and washers shall be 2.5 x the bolt T6 - All hardwood shall be a minimum F14.

diameter

11 - Barrenjoey Consulting Engineers shall only inspect works within its capacity as an Engineering Consultancy and will not carry out Mandatory Critical Stage

12 - Barrenjoey Consulting Engineers will not inspect or certify foundation material adequacy, see F2.

12 - All inspections are to be carried out at the request of the projects Principal Certifying Authority, or should independent certification be required at the request of the client or builder.

Foundation reinforcement 13 - Typical inspections include -

Suspended concrete reinforcement Slab on ground reinforcement Steel structures

Completed Stormwater Management systems Timber structures

14 - The client shall be responsible for any fees for inspections regardless of relieve: 15 - All re inspection required due to no compliance with issued drawings or that deemed necessary by Barrenjoey Consulting Engineers shall be charged to the whom requested them.

16 - No certification will be given for works not inspected by Barrenjoey Consulting Engineers.

17-48 Hrs notice is required for any inspection within the Sydney region and 72 Hrs notice is required for any inspection outside of this region.

documents correspond to that required by the Building Code DESIGN LIFE OF THE STRUCTURE D1 - The design life of all elements as specified within these D2 - The Design Life of elements relevant to slope stability Interim Risk Management Policy by the implementation of maybe extended to that required by Pittwater Councils of Australia and the relevant Australian Standard. a rigorous maintenance and inspection schedule

Risk Management Policy (if required) the works are to be regularly Engineer 12months after completion, by a licensed builder every D3 - To meet the requirements of Pittwater Councils Interim maintained by the occupant/home owner, inspected by an 10 years and by a qualified Engineer every 25 yrs.

# **DRAWING SCHEDULE**

- GENERAL NOTES S1.0

- ATTIC FLOOR FRAMING PLAN \$2.0

- ROOF FRAMING PLAN **OPTION 1** 83.0

- ROOF FRAMING PLAN **OPTION 2** 84.0

- FRAMING DETAILS \$5.0

# NATION

Building Certifiers Pty Ltd does plan this 8 stamping Insight The

their ensure the Engineer approval from Sydney Structural 2 responsibility utilities. The

Water

responsibility

applicant's

The

issued Construction The Applicant, Structural Engineer or other responsibility details chitectural Details. stamped adequacy of this project. their the consistent with Certificate Archite 0 these Professional ensure

091202 Job No

Drawing No:

Document Certification

GENERAL NOTES

**ALTERATIONS & ADDITIONS** 

**PROPOSED** 

48 IRRUBEL RD

NEWPORT

DRAWING:

ROJECT

Barrenjoey Consulting Engineers ptyltd

Structural

Avalon NSW 2107

PO Box 672 Stormwater

E: lucasbce@bigpond.com ABN: 13124694917

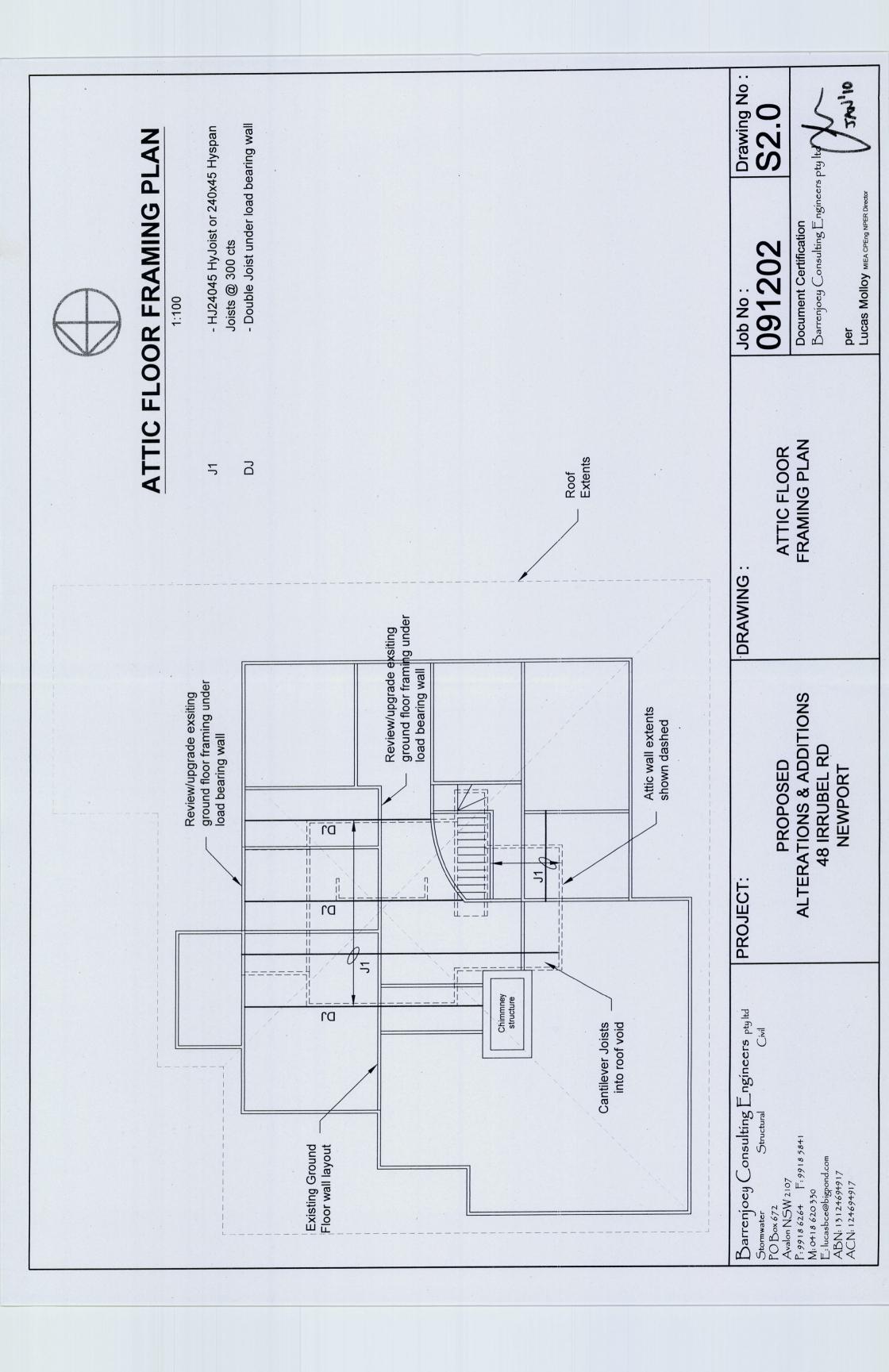
M:0418 620 330

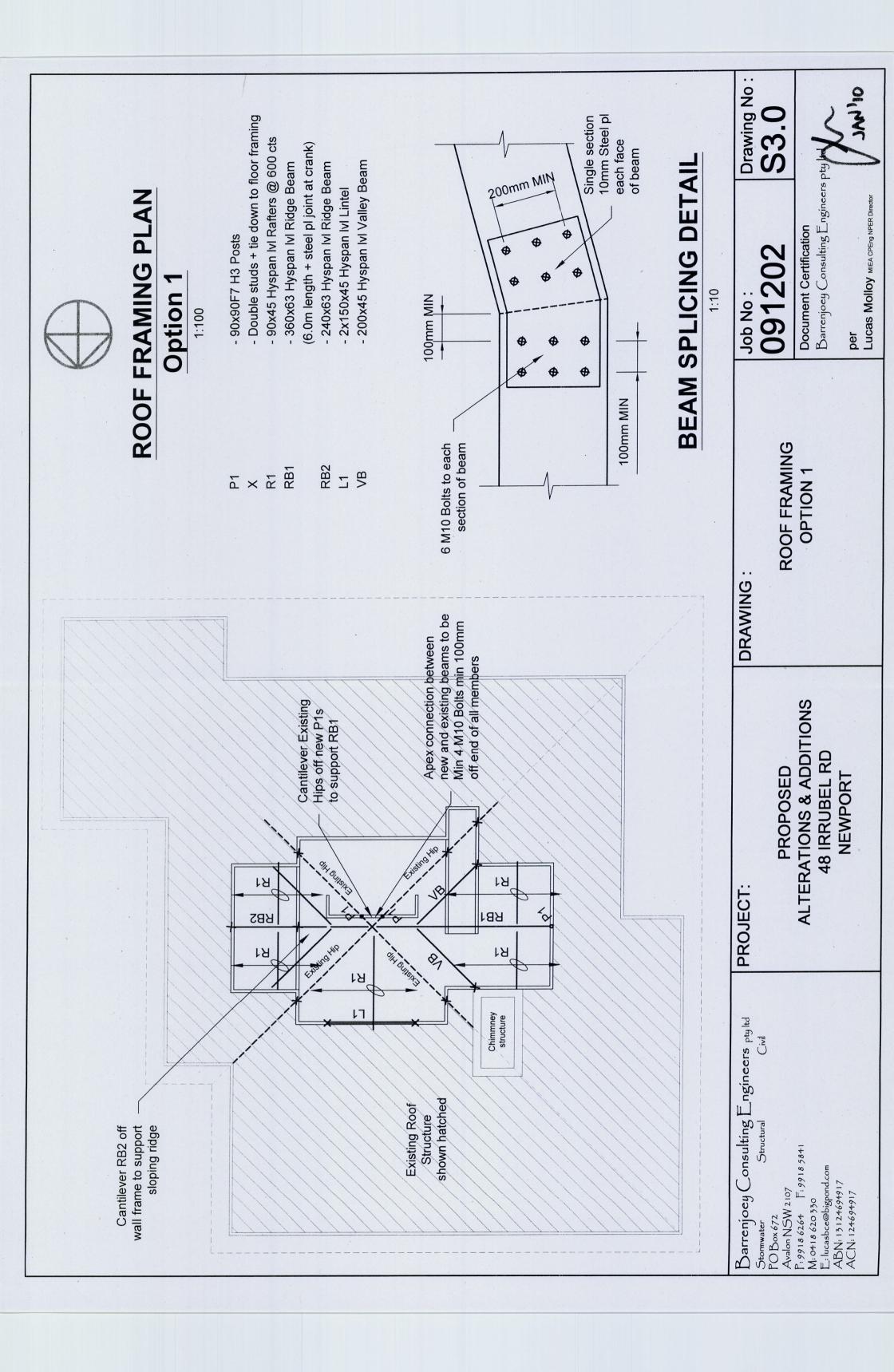
ACN: 124694917

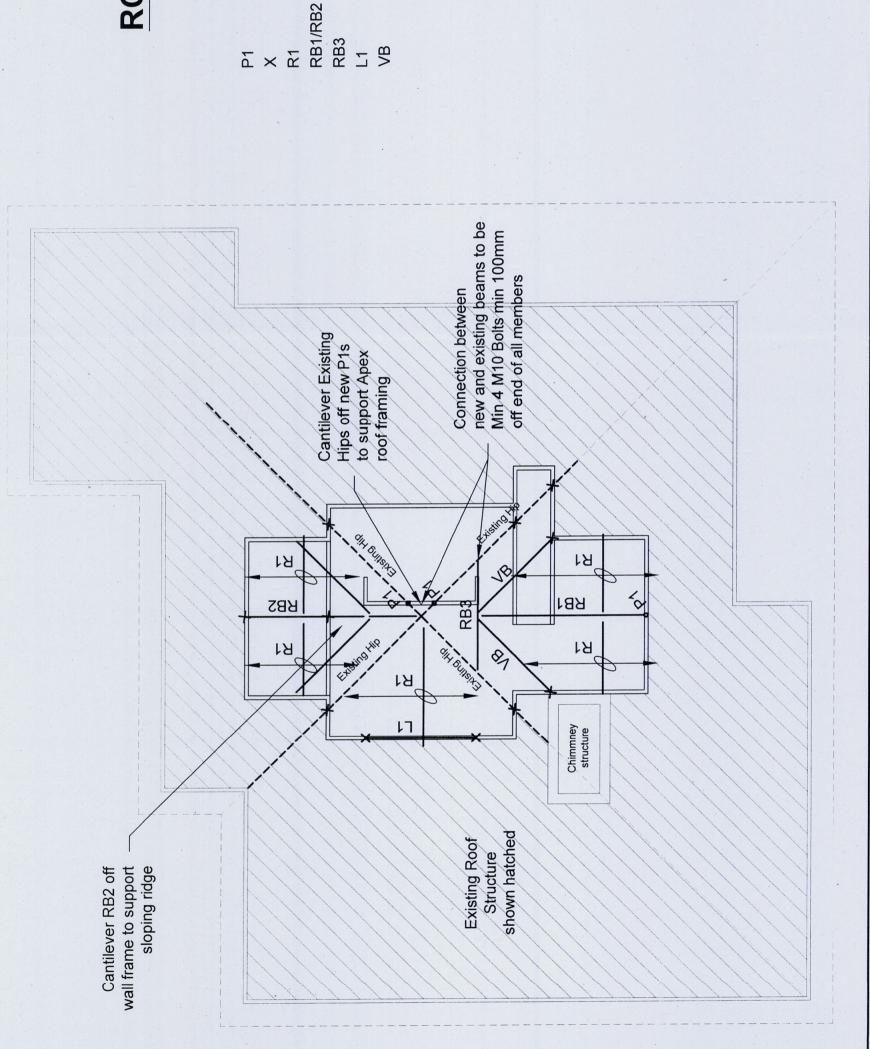
Barrenjoey Consulting Engineers pty

Lucas Molloy MIEA CPENG NPER Director

34 10







- Double studs + tie down to floor framing

- 90x90F7 H3 Posts

**ROOF FRAMING PLAN** 

Option 2

1:100

- 90x45 Hyspan Ivl Rafters @ 600 cts

- 240x63 Hyspan Ivl Ridge Beam

- 200x45 Hyspan Ivl Valley Beam

- 2x150x45 Hyspan IvI Lintel

- 240x63 Hyspan Ivl Beam

Job No

DRAWING:

Drawing No:

**S4.0** 

ROOF FRAMING

**OPTION 2** 

Document Certification

Barrenjoey Consulting Engineers pty ltd

091202

Lucas Molloy MIEA CPENG NPER DIRECTOR

Barrenjoey Consulting Engineers Ptyltd Structural Avalon NSW 2107 P:9918 6264 F:9918 5841 M: 0418 620 330 E: lucasbce@bigpond.com ABN: 13124694917 ACN: 124694917 Stormwater PO Box 672

**ALTERATIONS & ADDITIONS** 48 IRRUBEL RD PROPOSED NEWPORT **PROJECT** 

