

19 February 2009

General Manager Pittwater Council PO Box 882 MONA VALE NSW 1660

Dear Sır/Madam

Development Application No NO733/07 237A Whale Beach Road, Whale Beach

For Council's information, please find enclosed Construction Certificate No 2009/3190 issued for alterations & additions to an existing dwelling including a swimming pool at the above address, accompanied by

- Copy Construction Certificate application form
- Notice of Commencement of Work and Appointment of Principal Certifying Authority
- Builder's Home Warranty Insurance
- 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

Xours faithfully MM

Tom Bowden Insight Building Certifiers Pty Ltd



Suite 13/90 Mona Vale Road Mona Vale NSW 2103 PO Box 326 Mona Vale NSW 1660 ph 9999 0003 fax 9979 1555 email info@insightcert.com.au web www.insightbuildingcertifiers.com.au ABN 54 115 090 456 INSIGHT building certifiers pty Itd

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Construction Certificate Determination

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

Certificate No 2009/3190

Council	Pittwater
Determination	Approved
date of issue	19 February 2009
Subject land	
Address	237A Whale Beach Road, Whale Beach
Lot No DP No	Lot 72 DP 11067
Applicant	
Name	Mr Douglas & Mrs Rita Otto C/- The Design Section P/L
Address	PO Box 71, Avalon NSW 2107
Contact No	9918 7570
Owner	
Name	Mr Douglas & Mrs Rita Otto
Address	6746 Breakers Way Ventura Calıfornıa 93001 USA
Contact No	-
Description of Development	
Type of Work	Alterations & Additions to an Existing Dwelling including a Swimming Pool
Builder or Owner/Builder	
Name	V & D Luzar Pty Ltd
Contractor Licence No/Permit	36076
Value of Work	\wedge
Building	\$3 000 000 00
Attachments	
• Copy of completed Construction	
Pittwater Council receipt no 25	
BASIX Certificate no A24990	
 Construction Management Plan p 10 December 2008 	repared by V & D Luzar PRC La (Licensed Builder) dated
	$/ \sim \sim \sim /$

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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 and Construction Specifications reference no DA-01 02 03 04 & 05 prepared by The Design Section Pty Ltd dated October 2007
- Completed Form 2 Certificate dated 18 December 2008
- Structural Details reference no 23892 drawing nos BS000 (03) BS010 (04) BS020 (04) BS030 (04) BS040 (04) BS050 (04) prepared & endorsed by Connell Wagner Consulting Engineers dated 2 February 2009
- Schedule of External Finishes prepared by The Design Section Pty Ltd dated 12 December 2007
- Copy of Sydney Water approval dated 16 February 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

Moude 19 FEB 2009

Date of endorsement Certificate No

Signed

2009/3190

Certifying Authority

Name of Accredited Certifier Accreditation No Accreditation Authority Contact No Address Tom Bowden BPB0042 Building Professionals Board (02) 9999 0003 13/90 Mona Vale Road Mona Vale NSW 2103

Development Consent

Development Application No Date of Determination

NO733/07 15 February 2008

BCA Classification

1a & 10b

Suite 13/90 Mona Vale Road Mona Vale NSW 2103 PO Box 326 Mona Vale NSW 1660 ph 9999 0003 fax 99791555 email info@insightcert.com.au ABN 54 115 090 456

·	Construction Const	ATION FOR A CERTIFICATE Instruction Certificate
e a	Applicant's details It is important that we are able to contact you if we need more information Please give us as much detail	ıls as possible
	Mr Mrs Ms Dr Other	
	Given Names (or ACN) Family Name (or Company)	
	DOUGLAS & RITA OTTO	nyn yn a felenin a fel yn ymae a fel a Mae'n ar ar yn ar
	Postal Address (we will post all mail to this address)	
	C/- THE DESKEN SECTION P/L	
		st Code 2107
	Daytime telephone Alternate no Mobile no	011557
	19918-7570 10414.	266557
×	Every owner of the land must sign this form If the owner is a company the form must be signed by an au common seal must be stamped on this form If the property is a unit under the strata title or a lot in a co to the owner's signature the common seal of the body corporate must be stamped on this form over the s signed by the Chairman or Secretary of the Owner's Corporation or the appointed Managing Agent Owner(s) DOUGLAG & RITA OTTO Address CALIFORNIA 93001 USA. As owner(s) of the land to which this application relates I/We consent to this application I/We also con Certifying Authority and/or Accredited Certifier to enter the land to carry out inspections relating to the Signature(s) Without the owner's consent we will not accept the application. This is a very strict requirement for all and Without the owner's consent we will not accept the application.	ommunity title then in addition signature of the owner and usent for the Principal us application
	on the owners behalf as the owners legal representative you must state the nature of your legal authorit evidence (eg power of attorney executor trustee company director etc) 232210310791079210	ty and attach documentary
	Unit/Street no Street name 237A WHAVE BEACH RD Suburb	Post code
	WHALE BEACH	2107
	Legal Property Description (these details are shown on your rate notices property deeds etc) Lot no DP no 11067	

4: Description of Work (

What type of work do you propose to carry out?

Please describe briefly everything that you want approved

	AUTORATIONS TO SINGLE DWELLING CONSTRUCT NEW SWIMMING POOL
4 SALA	
Ē2	Estimated cost of work
	The estimated cost of the development or contract price may be subject to review
	Estimated cost of work \$ 3,000,000
3223223533	Development Consent
	Council Consent no NO 733/07 Date of Determination 15 FEB 2008
Υ.	Building Code of Australia classification
	This can be found on the development consent BCA Classification $\alpha + 10b$
	Builder's details
3	If known to be completed in the case of residential building work
1	Name Vadhuzar PTYLTD Licence no 36076
	Owner/builder permit no NJA

9. Applicant's declaration

I apply for a Construction Certificate to carry out building works as described in this application I declare that the above Development Consent is valid and that no building works associated with this application have commenced. To the best of knowledge all the information in this application and checklist is true and correct.

Signature Date 30: 1.2009

<u>SUBMISSION REQUIREMENTS</u>

A <u>GENERAL</u>

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 V 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?)

.,		Not	in the case of an application for a Construction Certificate for
Yes	No	Applicable	building work
			Three (3) copies of detailed architectural plans and specifications
J			 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 that 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)
Z			Where the proposed building work involves any alteration or addition to or rebuilding of an 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
ď			 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
		Ø	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
		Ø	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 & Schedule of BASIX Commitments
			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)

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

PARTICULARS OF THE PROPOSAL

What is the area of the land (m²)?	Gross floor area of building (m²) as proposed
1153 M2	1025 MZ
What are the current uses of all or parts of the building(s)/land?	Location
SINGLE DWELLING	Use
Does the site contain a dual occupancy?	What is the gross floor area of the proposed addition or new building (sq metres)? (025 M^2
What are the proposed uses of all parts of the building(s	Number of pre-existing dwellings
BEACH PAVILION SWAMMINE PEOC	ONE
Number of dwellings to be demolished	How many dwellings proposed?
NA.	ONE
How many storeys will the building consist of?	Will the new building be attached to the existing building?
4	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

WALLS Brick veneer	FLOOR Concrete	ROOF Aluminium		FRAME Timber	
Full brick	Timber	Concrete	IV	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			
Hardıplank		Steel			
Timber/weatherboard		Terracotta tile			
Cladding aluminium		Other			
Curtain glass		Unknown			
Other					
Unknown					

Suite 13/90 Mora Vale Road Mora Vale NSW 2103 PO Box 326 Mora Vale NSW 1660 ph 9999 0003 fax 9979 1555 Email info@irsightcert.com.au ABN 54 115 090 456

Pittwater Council

OFFICIAL RECEIPT

3/02/2009 Receipt No 253872

To Douglas Otto

C/O PO BOX 71 AVALON 2107

Applic	Reference	Amount
GL Recei	QLSL Builders 1 x Long Service Levy	\$10 500 00 0733/07

Total	\$10	500	00
Amounts	Tendered		
Cash		\$0	00
Cheque	\$10	500	00
Db/Cr Card		\$0	00
Money Order		\$0	00
Agency Rec		\$0	00
Total	\$10	500	00
Rounding		\$0	00
Change		\$0	00
Nett	\$10	500	00

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Cashier KSampso





DP 703 72 Project ALTERATIONS AND ADDITIONS TO 237A WHALE BEACH RD WHALE BEACH FOR MR & MRS D. OTTO Title WORKING DRAWINGS- GROUND FLOOR Scale 1:100 Number DA-02 Date **OCT 2007** Drawn GW, DP The Design Section Pty Ltd Architects Suite 5/40 Avalon Pde Avalon NSW 2107 PO Box 71 Avalon NSW 2107 Phone 9918 7570 Fax 9973 1805 Email g.watson@designsection.com.au The Design Section Pty Ltd is the owner of the Copyright in this drawing. This drawing is not to be used for any other purpose without the written consent of The Design Section Pty Ltd ARCHITECTS





	STEELWORK	MEMBER SCHEDULE
MARK	SIZE	REMARKS
C1	100 x 5.0 SHS	10 BASE 12 2M16-8.8/S CHEMSETS WITH COUNTERSUNK HEADS 10 NON-SHRINK GROUT
C2	150 x 9.0 SHS	10 BASE 12 3M16-8.8/S CHEMSET ANCHORS WITH COUNTERSUNK HEADS 10 NON-SHRINK GROUT
63	150UC30	STAINLESS STEEL GRADE 316
C4	150UC30	
B1	310UC97	12 ₱ CLEAT 6M20/8.8S BOLTS TO C2 WHERE APPLICABLE
B2	150UB18	
B3	FABRICATED 410UB54	STAINLESS STEEL GRADE 316
B4	180 PFC	
FTB1	TO MATCH EXIST.	STAINLESS STEEL TRUSS GRADE 316
TB1	TO MATCH EXIST.	TIMBER BEAM WITH STAINLESS STEEL BOLTS, PLATES & FITMENTS
EXC1	150UC30	EXISTING COLUMN
EXB1	200×100×5.0 RHS	EXISTING BEAM
EXB2	250 PFC	EXISTING BEAM







			300	\ \	CATES SLA	3 THICKNESS				
				INDI	CATES STE	P IN SLAB.				
	STEELWORK I	MEMBER SCHEDULE			CATES SETI	DOWN IN SLA	Β.			
ARK	SIZE	REMARKS				ETRATION IN	SLAB.	L UNDER.		
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	150UC30	STAINLESS STEEL GRADE 316					IG BRICKWORI			
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-	FABRICATED 410UB54	STAINLESS STEEL GRADE 316					OCKWORK WA			
1	180 PFC	-		INDI	CATES WAL	L UNDER TO	BE DEMOLISHE	ED		
31	TO MATCH EXIST.	STAINLESS STEEL TRUSS GRADE 316			CATES COLU	IMN UNDER.				
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ALTERATIONS & ADDITIONS TO 237A WHALE BEACH RD, WHALE BEACH

GENERAL NOTES

GENERAL

- G1 THESE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE SUPERINTENDENT BEFORE PROCEEDING WITH THE WORK.
- DETAIL NOTES ON THESE DRAWINGS AND THE SPECIFICATION CLAUSES TAKE PRECEDENCE OVER THE GENERAL NOTES.
- G2 ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT CURRENT STANDARDS AUSTRALIA CODES AND WITH THE BUILDING CODE OF AUSTRALIA.
- G3 ALL DIMENSIONS SHOWN ON THESE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR ON SITE. THESE STRUCTURAL DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
- G4 UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
- G5 THE STRUCTURAL COMPONENTS DETAILED ON THESE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RELEVANT STANDARDS AUSTRALIA CODE AND BUILDING CODE OF AUSTRALIA FOR THE FOLLOWING LOADINGS. REFER TO ARCHITECTURAL DRAWINGS FOR PROPOSED FLOOR USAGE.

IND ACTIONS IN ACCOR
N)

G7 THE RELEVANT PROVISIONS OF AS1170.4 HAVE BEEN APPLIED FOR AN EARTHQUAKE DESIGN CATEGORY OF WITH SITE FACTOR, S = AND GROUND ACCELERATION, A =, FOR A TYPE......STRUCTURE,

IMPORTANCE FACTOR :

- G8 THE METHOD OF CONSTRUCTION AND THE MAINTENANCE OF SAFETY DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. IF ANY STRUCTURAL ELEMENT PRESENTS DIFFICULTY IN RESPECT OF CONSTRUCTABILITY OR SAFETY, THE MATTER SHALL BE REFERRED TO THE SUPERINTENDENT FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERLOADED. TEMPORARY BRACING SHALL BE DESIGNED AND PROVIDED BY THE CONTRACTOR IN ORDER TO KEEP THE BUILDING WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
- G10 PRIOR TO CONSTRUCTION OF ALL CONCRETE FLOORS AND WALLS, THE CONTRACTOR SHALL PREPARE CONTRACTORS' WORKS DRAWINGS FOR REVIEW BY THE SUPERINTENDENT COMPRISING CO-ORDINATED FLOOR PLANS AND WALL ELEVATIONS AT 1:100 SCALE SHOWING ALL PROPOSED PENETRATIONS, OPENINGS AND CAST-IN FIXINGS. PREPARATION OF THESE DRAWINGS SHALL INCLUDE THE PLANNING AND CO-ORDINATION OF ALL TRADES WHICH MAY REQUIRE PENETRATIONS, OPENINGS AND FIXINGS. THE DRAWINGS SHALL BE PREPARED IN TIME FOR USE IN THE SCHEDULING OF REINFORCEMENT AND PRESTRESSING TENDON PROFILES.

G11 SECTION CALL UP: SECTION NUMBER DRAWING REFERENCE NUMBER BS002 DETAIL CALL UP DETAIL LETTER DRAWING REFERENCE NUMBER

4 W.

CONCRETE

- C1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF AS3600 INCLUDING AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- C2 READYMIX CONCRETE SUPPLY SHALL COMPLY WITH AS1379.
- C3 CONCRETE QUALITY

GENERAL REQUIREMENTS ARE GIVEN IN THE FOLLOWING TABLE. REFER TO THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS FOR SPECIAL CLASS CONCRETE

ELEMENT	CONCRETE CLASS	STRENGTH GRADE (MPa)	CEMENT TYPE	MAX. AGG. SIZE (mm)	SLUMP (mm)	MAXIMUM SHRINKAGE STRAIN @ 56 DAYS (µm)
PAD FOOTINGS STRIP FOOTINGS	NORMAL	32	-	20	80	TO AS1379
BORED PIERS	NORMAL	40		20	60	TO AS1379
INTERNAL SLABS ON GROUND, RAFT SLABS, FOOTING BEAMS	SPECIAL	40	SL	20	80	650
SUSPENDED SLABS, BEAMS, STAIRS	SPECIAL	40	SL	20	80	650
COLUMNS	SPECIAL	40	SL	20	80	650
WALLS	SPECIAL	40	SL	20	80	650
DRIVEWAYS, PARKING AREAS	SPECIAL	40	GP	20	60	650
FOOTPATHS, CROSSINGS, KERB AND GUTTER	NORMAL	25	1	20	80	TO AS1379

- CLASS CONCRETE IN ACCORDANCE WITH AS1379, CLAUSE 6.5.
- C5 NO ADMIXTURES CONTAINING CHLORIDES SHALL BE USED. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY AND

ELEMENT, INT OR EXT SURFACE	EXPOSURE CLASSIFICATION TO AS3600	GRADE	MINIMUM COVER	ADJUSTED COVER FOR FIRE RATING
		AS ABOVE		

AT EXTERNALLY EXPOSED SURFACES NO METALLIC ITEMS INCLUDING FORM BOLTS, FORM SPACERS, METALLIC BAR CHAIRS AND TIEWIRE ARE TO BE PLACED IN THE COVER ZONE.

- C7 CONCRETE SIZES SHOWN DO NOT INCLUDE THICKNESSES OF APPLIED FINISHES.
- C8 DEPTHS OF BEAMS AND BANDS ARE GIVEN FIRST AND INCLUDE SLAB THICKNESS.
- C9 FOR CHAMFERS, DRIP GROOVES, REGLETS, ETC., REFER TO ARCHITECTS DETAILS. MAINTAIN COVER TO REINFORCEMENT AT THESE DETAILS
- C10 NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE SUPERINTENDENT.
- C11 WHERE NOT SHOWN ON THE STRUCTURAL DRAWINGS CONSTRUCTION JOINTS SHALL BE LOCATED TO THE APPROVAL OF THE SUPERINTENDENT.
- C12 CONDUITS, PIPES ETC. SHALL ONLY BE LOCATED IN THE MIDDLE ONE THIRD OF SLAB DEPTH AND SPACED AT NOT LESS THAN 3 DIAMETERS. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE COVER TO THE REINFORCEMENT.
- C13 SLABS AND BEAMS SHALL BE CONSTRUCTED TO BEAR ONLY ON THE BEAMS, WALLS, COLUMNS, ETC. SHOWN ON THE STRUCTURAL DRAWINGS. ALL OTHER BUILDING ELEMENTS SHALL BE KEPT 15mm MINIMUM CLEAR FROM THE SOFFITS OF THE STRUCTURE UNLESS NOTED OTHERWISE.
- C14 REINFORCEMENT SHALL BE SUPPORTED ON PURPOSE MADE CONCRETE, STEEL OR PLASTIC SUPPORTS DEPENDING ON THE EXPOSURE CONDITION TO PROVIDE THE SPECIFIED CLEAR COVER. AT EXTERNAL SURFACES EITHER ALL PLASTIC OR CONCRETE SUPPORTS SHALL BE USED.
- C15 SUPPORTS SHALL BE LOCATED AT NOT MORE THAN 60 BAR DIAMETERS EACH WAY FOR BARS AND NOT MORE THAN 750mm EACH WAY FOR MESH.
- C16 REINFORCEMENT SYMBOLS BARS

R - ROUND D - DEFORMED

- I INDENTED 250, 300, 500 - STRENGTH GRADE IN MPa
- L LOW DUCTILITY N - NORMAL DUCTILITY

E - EARTHQUAKE DUCTILITY

eg. D500N16 - DEFORMED BAR, GRADE 500 MPa, NORMAL DUCTILITY, 16mm DIAMETER

REINFORCEMENT SYMBOLS - WELDED MESH R, D, I AS FOR BARS

500 - STRENGTH GRADE S - SQUARE MESH

R - RECTANGULAR MESH L, N, E - DUCTILITY AS FOR BARS

CONCRETE (cont')

- C17 BARS DENOTED N SHALL BE TYPE D500N. BARS DENOTED R SHALL BE TYPE R250N. MESH DENOTED SL...... OR RL......SHALL BE TYPE D500SL OR TYPE D500RL RESPECTIVELY
- TRENCH MESH SHALL BE TYPE D500L
- C18 REINFORCEMENT NOTATION

- SPACING (mm)

TYPE OF BAR

BAR

BAR DIAMETER (mm) BAR DIAMETER (mm) TYPE OF BAR ----- NUMBER OF BARS

THE FIGURE FOLLOWING THE MESH SYMBOLS RL..... SL.... OR L...... IS THE REFERENCE NUMBER FOR MESH IN ACCORDANCE WITH AS4671.

- C19 PULL OUT BARS OR OTHER BARS WHICH ARE SHOWN ON THE DRAWINGS TO BE RE-BENT ON SITE SHALL BE MADE FROM QUENCHED AND SELF TEMPERED STEEL. THE BARS SHALL BE POSITIONED WITH THE INITIAL BEND CLEAR OF THE CONCRETE FACE.
- C20 SITE BENDING OF REINFORCEMENT BARS SHALL BE DONE WITHOUT HEATING USING A RE-BENDING TOOL. THE BARS SHALL BE RE-BENT AGAINST A FLAT SURFACE OR A PIN WITH A DIAMETER NOT LESS THAN THE MINIMUM PIN SIZE PRESCRIBED IN AS3600-2001.
- C21 REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY IN TRUE PROJECTION.
- C22 WHERE TRANSVERSE TIE BARS ARE NOT SHOWN PROVIDE N12-400 SPLICED WHERE NECESSARY AND LAP WITH MAIN BARS 400mm UNLESS NOTED OTHERWISE.
- C23 SLAB REINFORCEMENT SHALL EXTEND AT LEAST 65mm ONTO MASONRY SUPPORT WALLS. C24 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN POSITIONS SHOWN ON THE STRUCTURAL DRAWINGS OR IN POSITIONS OTHERWISE APPROVED IN WRITING BY THE SUPERINTENDENT. LAPS SHALL BE IN ACCORDANCE WITH AS3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH

SPLICES IN MESH: THE OUTERMOST TRANSVERSE WIRES SHALL BE OVERLAPPED BY AT LEAST THE SPACING OF THE TRANSVERSE WIRES PLUS 50mm.

- C25 WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE SUPERINTENDENT.
- C26 AT JOGGLES IN BARS, THE MAXIMUM OFFSET SHALL BE 1 BAR DIAMETER OVER A LENGTH OF 12 BAR DIAMETERS.
- C27 REINFORCEMENT COUPLERS, UNLESS SHOWN ON THE DRAWINGS, SHALL NOT BE USED WITHOUT APPROVAL BY THE SUPERINTENDENT. C28 ALL DOWELS PLACED IN DOWEL JOINTS AND IN EXPANSION JOINTS IN

CONCRETE SLABS SHALL BE PLACED WITHIN THE FOLLOWING TOLERANCES. VERTICAL ALIGNMENT ± 2 DEGREES FROM LEVEL HORIZONTAL ALIGNMENT ± 2 DEGREES FROM A LINE PERPENDICULAR TO THE FACE OF THE JOINT. POSITION ± 5 mm

- C29 GIVE A MINIMUM OF 24 HOURS NOTICE FOR INSPECTION OF REINFORCEMENT BY THE SUPERINTENDENT AS REQUIRED BY THE SPECIFICATION.
- C30 THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS. ALL CONCRETE SHALL BE COMPACTED WITH MECHANICAL VIBRATORS.
- C31 CURING OF ALL CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS, UNLESS SPECIFIED OTHERWISE, APPROVED SPRAY ON CURING COMPOUNDS THAT COMPLY WITH AS3799 MAY BE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED, POLYTHENE SHEETING OR WET HESSIAN MAY BE USED TO RETAIN CONCRETE MOISTURE WHERE PROTECTED FROM WIND AND TRAFFIC. CURING IS TO COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT.
- C32 CONSTRUCTION SUPPORT PROPPING IS TO BE LEFT IN PLACE WHERE NEEDED TO AVOID OVERSTRESSING THE STRUCTURE DUE TO CONSTRUCTION LOADING. BACKPROPPING IS SUBJECT TO APPROVAL BY THE SUPERINTENDENT. NO BRICKWORK OR PARTITION WALLS ARE TO BE CONSTRUCTED ON SUSPENDED LEVELS UNTIL ALL PROPPING IS REMOVED AND THE SLAB HAS DEFLECTED UNDER ITS SELF WEIGHT.

STRUCTURAL STEEL

- S1 ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH AS4100 AND AS1554 EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- S2 UNLESS NOTED OTHERWISE, ALL STEEL SHALL BE OF THE FOLLOWING GRADE IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARD.

TYPE OF STEEL	GRADE
UNIVERSAL BEAMS AND COLUMNS, PARALLEL FLANGE CHANNELS, LARGE ANGLES TO AS/NZS3679.1	300 PLU
FLATS, SMALL ANGLES, TAPER FLANGE BEAMS AND COLUMNS TO AS/NZS3679.1	250
WELDED SECTIONS TO AS/NZS3679.2	300
HOT ROLLED PLATES, FLOOR PLATES AND SLABS TO AS/NZS3678	250
HOLLOW SECTIONS TO AS1163 - CIRCULAR SECTIONS LESS THAN 265mm OUTSIDE DIAMETER - SECTIONS OTHER THAN THE ABOVE	C250 C350

- S3 WORKSHOP FABRICATION DRAWINGS SHALL BE SUBMITTED TO THE SUPERINTENDENT IN ACCORDANCE WITH THE SPECIFICATION FOR REVIEW AT LEAST 7 DAYS PRIOR TO COMMENCEMENT OF FABRICATION. FABRICATION SHALL NOT COMMENCE WITHOUT THE SUPERINTENDENT'S APPROVAL OF THE WORKSHOP DRAWINGS.
- THE CONTRACTOR SHALL ENSURE THAT FIXINGS BETWEEN STEELWORK AND OTHER BUILDING ELEMENTS ARE COORDINATED AND INSTALLED. WHERE POSSIBLE THE FIXINGS SHALL BE SHOWN ON THE WORKSHOP FABRICATION DRAWINGS.
- S5 THE FABRICATION AND ERECTION OF THE STRUCTURAL STEELWORK SHALL BE SUPERVISED BY A QUALIFIED PERSON EXPERIENCED IN SUCH SUPERVISION, IN ORDER TO ENSURE THAT ALL REQUIREMENTS OF THE DESIGN ARE MET.
- S6 ALL BEAMS AND RAFTERS SHALL BE FABRICATED AND ERECTED WITH NATURAL CAMBER UP. REFER TO DRAWINGS FOR OTHER CAMBER REQUIREMENTS.
- S7 ALL MEMBERS SHALL BE SUPPLIED IN SINGLE LENGTHS. SPLICES SHALL ONLY BE PERMITTED IN LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS.
- S8 ALL STEELWORK SHALL BE SECURELY TEMPORARILY BRACED BY THE CONTRACTOR AS NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.
- S9 BOLTING: BOLTING CATEGORIES ARE IDENTIFIED ON THE STRUCTURAL DRAWINGS IN THE FOLLOWING MANNER.
- BOLT CATEGORY COMMENTS: 4.6/S COMMERCIAL BOLTS OF GRADE 4.6 TO AS1111 SNUG TIGHTENED
- 8.8/S HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 SNUG TIGHTENED 8.8/TB HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 FULLY TENSIONED TO AS4100 AS A BEARING TYPE JOINT
- 8.8/TF HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS1252 FULLY TENSIONED TO AS4100 AS A FRICTION TYPE JOINT WITH FAYING SURFACES LEFT UNCOATED U.N.O. S10 UNLESS NOTED OTHERWISE ALL BOLTS SHALL BE M20 CATEGORY 8.8/S.
- NO CONNECTION SHALL HAVE LESS THAN 2 BOLTS. ALL BOLTS AND WASHERS SHALL BE GALVANISED. ALL HOLES SHALL BE 2MM LARGER THAN THE BOLT DIAMETER UNLESS NOTED OTHERWISE.
- S11 WELDING: ALL WELDING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS1554.1. ELECTRODES SHALL BE EITHER TO AS1553, AS1858, AS2203 OR AS2717, AS APPROPRIATE

UNLESS NOTED OTHERWISE, ALL FILLET WELDS SHALL BE 6mm CONTINUOUS CATEGORY SP USING E48XX ELECTRODES OR EQUIVALENT. ALL BUTT WELDS SHALL BE COMPLETE PENETRATION BUTT WELDS CATEGORY SP TO AS1554.1 UNO.

THE EXTENT OF NON-DESTRUCTIVE WELD EXAMINATION SHALL BE AS NOTED BELOW UNLESS OTHERWISE NOTED.

RADIOGRAPHIC OR ULTRASONIC EXAMINATION SHALL BE TO AS1554.1, AS2177.1 AND AS2207 AS APPROPRIATE.

TYPE OF WELD AND CATEGORY	EXAMINATION METHOD	EXTENT (% OF TOTAL LENGTH OF WELD TYPE
FILLET WELDS, GP + SP	VISUAL INSPECTION	100
BUTT WELDS, GP	VISUAL INSPECTION	100
BUTT WELDS, SP	VISUAL INSPECTION	100
BUTT WELDS, SP	ULTRASONIC TESTING	10

S12 GROUT ALL STEEL BASES BY DRY PACKING USING GROUT WHICH IS NON-SHRINK AND HAS A MINIMUM COMPRESSIVE STRENGTH AT 7 DAYS OF 40 Mpa.

This drawing has been assessed for compliance with recommendations in our geotechnical report Ref: <u>2(609, w2</u> , dated <u>7, 117,, 7, 117,, 7, 117,, 7, 117,, 7, 117,, No design calculations have been carried out unless governments otherwise. Compliance with the contractual documents</u>
and all dimensions are the responsibility of the Contractor.
Approved
Approved with Amendments shown
Not Approved - Amend and Resubmit
Signed by
Date
For and on behalf of JEFFERY AND KATAUSKAS PTY LTD

STRUCTURAL STEEL (cont')

TE SHALL HAVE THE
OTHERWISE IN THE

DRY FILM THICKNESS:	TO AS1627.4 CLASS 2 MINIMUM 75 MICRONS
EXTERNAL MEMBERS:	STAINLESS STEEL GRADE 316
STEELWORK INTENDED	TO BE CONCRETE ENCASED SHALL BE UNPAINTED.
	HALL BE GRADE N25 UNLESS NOTED OTHERWISE
	DEQUATE TO SUIT FIRE RATING OR EXPOSURE
	E ENCASEMENT SHALL BE CENTRALLY REINFORCED 4617 OR 6mm STRUCTURAL GRADE BARS TO AS4617

HIGH BUILD ZINC PHOSPHATE POWER TOOL

SURFACE PREPARATION: CLEAN TO AS1627.2 OR ABRASIVE BLAST CLEAN

MASONRY

AS3700.

PRIMER:

AT 150mm PITCH.

520

- M1 MATERIALS INCLUDING MORTAR, CONCRETE, GROUT SHALL COMPLY WITH SECTION 10 OF AS3700. MASONRY UNITS SHALL COMPLY WITH AS4455. WALL TIES SHALL COMPLY WITH AS2699. M2 MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 11 OF
- M3 STRENGTHS OF BRICKS, BLOCKS, AND TYPE OF MORTAR SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

TYPE OF MASONRY	EXPOSURE CONDITION REFER TABLE 5.1 AS3700	MATERIAL
REINFORCED BLOCKWORK	ALL	CONCRETE
LOADBEARING UNREINFORCED BLOCKWORK	SEVERE NOT SEVERE	CONCRETE
LOADBEARING SOLID BLOCKWORK, FULLY BEDDED	SEVERE NOT SEVERE	CONCRETE
NON LOADBEARING BLOCKWORK	SEVERE	CONCRETE

M4	MORTAR SHALL COMPLY WITH TABLE
	CEMENT SHALL BE TYPE GP.
	M3 MORTAR PROPORTIONS : C1 : L1 : S
	M4 MORTAR PROPORTIONS : C1 : L0.25
	THE WATER THICKENER SHALL BE DY
	ADDED IN ACCODDANCE WITH THE MA

- M5 ALL MASONRY WALLS AND PIERS SUPPORTING SLABS AND BEAMS SHALL HAVE A PRE-GREASED GALVANISED STEEL SLIP JOINT BETWEEN THE
- M6 NON LOAD BEARING WALLS SHALL BE SEPARATED FROM CONCRETE ABOVE BY 15mm THICK CLOSED CELL POLYETHYLENE STRIP AND TIED TO
- M7 THE TOP COURSE IN HOLLOW BLOCK WALLS SHALL BE LAID IN SOLID BLOCK. UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- M8 ALL MASONRY SUPPORTING OR SUPPORTED BY CONCRETE FLOORS SHALL BE PROVIDED WITH VERTICAL CONTROL JOINTS TO MATCH ANY CONTROL
- JOINTS IN THE CONCRETE FLOORS. M9 NO CHASES OR RECESSES ARE PERMITTED IN LOAD BEARING MASONRY
- M10 ALL BONDING, TYING AND FIXING OF MASONRY SHALL COMPLY WITH CLAUSE 4.11 OF AS3700.
- M11 DO NOT CONSTRUCT MASONRY WALLS ON SUSPENDED CONCRETE SLABS UNTIL SLAB HAS BEEN STRIPPED AND DEPROPPED.
- M12 PROVIDE VERTICAL CONTROL JOINTS AT 10m MAX CENTRES, AND 5m MAXIMUM FROM CORNERS IN ALL MASONRY WALLS, UNLESS SHOWN OTHERWISE ON THE STRUCTURAL DRAWINGS. SEAL THE JOINTS WITH AN APPROVED SEALANT.
- M13 REINFORCED CONCRETE BLOCKWORK SHALL COMPLY WITH THE FOLLOWING:
- CORE HOLES TO REMOVE PROTRUDING MORTAR FINS.
- 20 MPa, 10mm MAXIMUM AGGREGATE, 230mm SLUMP (± 30mm) WITH A MINIMUM PORTLAND CEMENT CONTENT OF 300kg/m3. * COMPACT THE GROUT WITH A VIBRATOR.
- * PROVIDE 65mm COVER TO REINFORCING BARS FROM THE OUTSIDE FACE OF THE BLOCKWORK TO ALLOW ADEQUATE GROUT COVER.
- COLUMNS WITH 38 X 1.6 X 300 LONG CRIMPED GALVANISED STEEL STRAPS AT MAXIMUM 350 CENTRES VERTICALLY, UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS. FIX STRAPS TO COLUMNS WITH 2/ NO 12 SELF DRILLING STEEL FASTENERS INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ALTERNATIVE FIXINGS MAY BE SUBMITTED TO THE SUPERINTENDENT FOR APPROVAL.
- M15 MASONRY FLEXIBLE OR SLIDING ANCHORS SHALL BE TYPE MFA (FROM BRUNSWICK SALES) OR AN APPROVED EQUIVALENT.
- HOLLOW BLOCK WALLS, USE SOLID BLOCKS OR CORE FILLED BLOCKS IN THE EMBEDMENT AREA.

DRAWING INDEX

DRG NO	TITLE
BS000	GENERAL NOTES &
	DRAWING LIST
BS010	BASEMENT PLAN & DETAILS
BS020	LOWER GROUND PLAN
	& DETAILS
BS030	GROUND FLOOR PLAN
	& DETAILS
BS040	FIRST FLOOR PLAN
	& DETAILS
BS050	ROOF PLAN & DETAILS

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2.14					
				_	
03	19.12.08	ISSUED FOR CONSTRUCTION CERTIFICATE	AA		

Connell Wagner

02 17.10.08 ISSUED FOR TENDER

01 12.09.08 ISSUED FOR REVIEW

Rev Date Revision Details

Client:

Drawing Title:

Drawn

Designed

RA

TENDER DOCUMENT Drawing No.

NOT FOR CONSTRUCTION

Project No.

Signed

985460

Connell Wagner Pty Ltd ABN 54 005 139 873 Telephone: +61 2 9465 5599 116 Military Road (PO Box 538) Neutral Bay Facsimile: +61 2 9465 5598 Email: cwsyd@conwag.com New South Wales 2089 Australia

GSW

ARB

Drn Ver. App

A person using Connell Wagner drawings and other data accepts the risk of: I. using the drawings and other data in electronic form without requesting and checking them for accuracy against the original hard copy versions:

using the drawings or other data for any purpose not agreed to in writing by Connell Wagner.

WARMINMR. D. OTTO The stamping of this plan by Building Certifiers Pty Ltd does not Insight applicant's responsibility to obtain approval from Sydney Water or other

of Project; to ensure the structural adequacy of this project. pplicant, Structural Engineer or et ALTERATIONS AND ADDITIONS the Arch237ASWHALE BEACH RD WHALE BEACH

GENERAL NOTES & DRAWING LIST

Verified

JRD

23892

Contract of **BS000**

20 10 0 10 20 30 40 50 2 4 FEB 2009

Signed

ITTWATER COUNT

Date

A1

03

100m

Approved Signed

Date

Signed Date / ROB ANGLUS MIEAUST CREW 02/02/09

COMPRESSIVE STRENGTH CLASSIFICATION TO TABLE 10.1 f'uc (MPa) ONCRETE 15 M4 ONCRETE M4 12 MB ONCRETE M4 10

MB

MB

MORTAR

MIN UNCONF.

ES 5.1 AND 10.2 OF AS3700. S6 OR C1: S5 + WATER THICKENER

25 : S3 OR C1 : S4 + WATER THICKENER YNEX OR APPROVED EQUIVALENT ADDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

CONCRETE SOFFIT AND THE TOP OF THE MASONRY ELEMENT.

THE SLAB USING APPROVED MFA ANCHORS UNLESS NOTED OTHERWISE.

WITHOUT THE APPROVAL OF THE SUPERINTENDENT.

* PROVIDE CLEANOUT HOLES AT BASE OF ALL WALLS AND ROD

* CORE FILLING GROUT TO HAVE A CHARACTERISTIC STRENGTH OF

M14 MASONRY WALLS SHALL BE TIED TO ABUTTING CONCRETE AND STEEL

M16 WHERE COLUMN TIES OR OTHER ANCHORS CONNECT TO BED JOINTS IN



	LEGEND
	300 INDICATES SLAB THICKNESS.
	INDICATES STEP IN SLAB.
EMBER SCHEDULE	INDICATES SETDOWN IN SLAB.
REMARKS	INDICATES PENETRATION IN SLAB.
	INDICATES LOADBEARING CONCRETE WALL UNDER.
10 BASE 12 2M16-8.8/S CHEMSETS WITH COUNTERSUNK HEADS	INDICATES LOADBEARING CONCRETE WALL OVER ONLY.
10 NON-SHRINK GROUT	INDICATES LOADBEARING CONCRETE WALL UNDER & OVER.
10 BASE ₱ 3M16-8.8/S CHEMSET ANCHORS WITH COUNTERSUNK HEADS	INDICATES EXISTING LOADBEARING BRICKWORK WALL UNDER.
10 NON-SHRINK GROUT	INDICATES NEW LOADBEARING BRICKWORK WALL OVER ONLY.
STAINLESS STEEL GRADE 316	INDICATES EXISTING LOADBEARING BRICKWORK WALL OVER ONLY.
	INDICATES NEW LOADBEARING BRICKWORK WALL UNDER & OVER.
2 ₱ CLEAT 6M20/8.8S BOLTS TO C2 /HERE APPLICABLE	INDICATES EXISTING LOADBEARING BRICKWORK WALL UNDER & OVER.
	INDICATES LOADBEARING BLOCKWORK WALL UNDER.
	INDICATES LOADBEARING BLOCKWORK WALL OVER ONLY.
AINLESS STEEL GRADE 316	INDICATES WALL UNDER TO BE DEMOLISHED
	INDICATES COLUMN UNDER.
AINLESS STEEL TRUSS GRADE 316	O INDICATES COLUMN OVER ONLY.
MBER BEAM WITH STAINLESS STEEL DLTS, PLATES & FITMENTS	INDICATES COLUMN UNDER & OVER.
	승규는 승규는 물건을 얻는 것을 가지 않는 것이 있는 것이 없다.
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EXISTING RETAINING WALLS				MEMBER SCHEDULE	(300) INDICATES SLAB THICKNESS. INDICATES STEP IN SLAB. INDICATES SETDOWN IN SLAB. INDICATES PENETRATION IN SLAB.
		MARK	SIZE	REMARKS 10 BASE ₱ 2M16-8.8/S CHEMSETS	INDICATES LOADBEARING CONCRETE WALL UNDER.
EXISTING CONCR		C1	100 × 5.0 SHS	WITH COUNTERSUNK HEADS 10 NON-SHRINK GROUT	INDICATES LOADBEARING CONCRETE WALL UNDER & OVER.
	7	C2	150 x 9.0 SHS	10 BASE	INDICATES NEW LOADBEARING BRICKWORK WALL UNDER.
		С3	150UC30	STAINLESS STEEL GRADE 316	INDICATES NEW LOADBEARING BRICKWORK WALL OVER ONLY.
		C4	150UC30	-	INDICATES NEW LOADBEARING BRICKWORK WALL UNDER & OVER.
EXISTING CONCR COLUMNS	RETE	B1	310UC97	12	INDICATES EXISTING LOADBEARING BRICKWORK WALL UNDER & OVER.
		B2	150UB18	-	INDICATES LOADBEARING BLOCKWORK WALL OVER ONLY.
		B3	FABRICATED 410UB54	STAINLESS STEEL GRADE 316	INDICATES LOADBEARING BLOCKWORK WALL UNDER & OVER.
	FTF	B4	180 PFC	-	INDICATES WALL UNDER TO BE DEMOLISHED
BEAM UNDER		FTB1	TO MATCH EXIST.	STAINLESS STEEL TRUSS GRADE 316	
		TB1	TO MATCH EXIST.	TIMBER BEAM WITH STAINLESS STEEL BOLTS, PLATES & FITMENTS	INDICATES COLUMN OVER ONLY. INDICATES COLUMN UNDER & OVER.
		EXC1	150UC30	EXISTING COLUMN	
		EXB1	200×100×5.0 RHS	EXISTING BEAM	
		EXB2	250 PFC	EXISTING BEAM	
0		TOP COVER			Connell Wagner
NOTE: FOR TYPICAL SAND STONE CLADDING SUPPORT REFER DRG No. BS040		EXISTING 110 BRICK WALL EXISTING 190 BLOCK WALL		TO BE CONFIRMED	Connell Wagner Pty Ltd ABN 54 005 139 873 Telephone: +61 2 9465 5598 116 Military Road (PO Box 538) Neutral Bay Facsimile: +61 2 9465 5598
NOTE: FOR TYPICAL SAND STONE CLADDING		EXISTING 110 BRICK WALL EXISTING 190 BLOCK WALL		TO BE CONFIRMED	Connell Wagner Pty Ltd ABN 54 005 139 873 116 Military Road (PO Box 538) Neutral Bay New South Wales 2089 Australia Telephone: +61 2 9465 5598 Email: : +61 2 9465 5598 Email: : cwsyd@conwag.com A person using Connell Wagner drawings and other data accepts the risk of: 1. using the drawings and other data in electronic form without requesting and checking them for accuracy against the original hard copy versions; 2. using the drawings or other data for any purpose not agreed to in writing by Connell Wagner. Client:
NOTE: FOR TYPICAL SAND STONE CLADDING	SEC 1:20 Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ Δ <td>EXISTING 110 BRICK WALL EXISTING 190 BLOCK WALL TION 7 </td> <td></td> <td></td> <td><text><text><text><text><list-item><text><text><text></text></text></text></list-item></text></text></text></text></td>	EXISTING 110 BRICK WALL EXISTING 190 BLOCK WALL TION 7 			<text><text><text><text><list-item><text><text><text></text></text></text></list-item></text></text></text></text>
NOTE: FOR TYPICAL SAND STONE CLADDING	SEC 1:20	EXISTING 110 BRICK WALL EXISTING 190 BLOCK WALL TION 7 		Ref: 21689 W2 dated 7117 No design calculations have been carried out unless noted otherwise. Compliance with the contractual documents and all dimensions are the responsibility of the Contractor Approved Approved with Amendments shown	Connell Wagner Pty Ltd ABN 54 005 139 873 The Milling Road (PO Box 539) Neutral Bay New South Wales 2089 Australia Prevenueng Connell Wagner drawings and other data accepts the risk off. Enail: cwsyd@conwag.com Aperson using Connell Wagner drawings and other data accepts the risk off. Enail: cwsyd@conwag.com In migh the analysis and other data accepts the risk off. Enail: cwsyd@conwag.com In the drawings or other data for any purpose not accepts the risk off. Enail: cwsyd@conwag.com Using the drawings or other data for any purpose not accepts the original hard copy versions. Enail: cwsyd@conwag.com We South Wales 2089 Australia With the risk off. Enail: cwsyd@conwag.com Using the drawings or other data for any purpose not accept to moviring by Connell Wagner. Enail: cwsyd@conwag.com Using the drawings or other data for any purpose not accept to moviring by Connell Wagner. Enail: cwsyd@conwag.com Project: ALTECRATIONS AND ADDITIONS 237A WHALE BEACH RD. BEACH & DET AILS Drawing Title: Drawing Title: Drawing Signed De accept
NOTE: FOR TYPICAL SAND STONE CLADDING	SEC	EXISTING 110 BRICK WALL EXISTING 190 BLOCK WALL TION 7 -		recommendations in our geotechnical report Ref: 21689 W2 dated 7117 No design calculations have been carried out unless noted otherwise. Compliance with the contractual documents and all dimensions are the responsibility of the Contracto Approved Approved Not Approved - Amend and Resubmit Signed by Date 21219 Job Ref	Connell Wagner Ply Lid ABN 54 005 139 873 Telephone: +61 2 9465 5598 Preven South Wales 2089 Australia Enail: cwsyd@conwag.com A person using Controll Wagner drawings and elefter data accepts the rist of: 1.000000000000000000000000000000000000

NSW GOVERNMENT Department of Planning	Director General Date of issue Friday 07 December 2007	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	Certificate number A24990	Alterations and Additions	BASI Certificate Building Sustainability Index www basix nsw gov au
		లా ర్ాషు గా గండటం	*	` «	*
			Type of alteration an addition	Project type Dwelling type	Project address Project name Street address Local Government A Plan type and numb

includes a pool (and/or spa)	addition
My renovation work is valued at \$50,000 or more, and	Type of alteration and
Separate dwelling house	Dwelling type
	Project type
0	Section number
72	Lot number
Deposited Plan 11067	Plan type and number
Pittwater Council	Local Government Area
237A Whale Beach Road Whale Beach 2107	Street address
002 Mr and Mrs Otto	Project name
	■roject address

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Pool and Spa	Show on DA Plans	Show on CC/CDC Plans &	Certifier Check
The applicant must install a rainwater tank of at least 2865 ditres on the site. This rainwater tank must meet, and be installed in accordance with, the requirements of all applicable regulatory autbentities.	<	. <	<
The applicant must configure the rainwater tank to collect rainwater runoff from at least 100 square metres of roof area		1	****
The applicant must connect the rainwater tank to a tap located within 10 metres of the edge of the pool Outgoon Swimming bool			5
The swimming pool must not have a capacity greater than 57 5 kilolitres	< <	< <	
The applicant must install a pool pump timer for the swimming pool		<	<
The applicant must install the following heating system for the swimming pool that is part of this development solar only			

BASIX
Certificate
e number
A24990

	٢		The applicant must ensure new or altered taps have a flow rate no greater than 9 litres per minute or minimum 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
< ² ,		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Fixtures. 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
* *	1 - 199 - 19		Lighting 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
<	<	<	
*	3	jī }	
Certifie Check	Show on CC/CDC Plans & specs	Show on DA Plans	

Construction Additional insulation required (R-value) Other specifications external wall cavity brick nil	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 DA Plans	
	×~,	∩ Show on s CC/CDC Plans & specs	
		n Certifier Check	page 4 / 8

BASIX Certificate number A24990

Glazing requirements Windows and glazed doors	áoots,					Show on DA Plans	Show on CC/CDC Plans & specs	Certifier Check
The applicant must install Relevant overshadowing	the windows	, glazed (must be	doors and s satisfied fc	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	ne specifications listed in the table below	٩,	< 、	<u> </u>
The following requiremen	nts must also	oe satisfie	ed in relatio	The following requirements must also be satisfied in relation to each window and glazed door			<	<
Each window or glazed d have a U-value and a Sol must be calculated in acc	loor with stan lar Heat Gain pordance with	łard alur Coefficie National	nnium or tin nt (SHGC) Fenestratic	Each window or glazed door with standard aluminium or timber frames and single clear or toned 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	l glass may either match the description, or, below Total system U-values and SHGCs		<	<
Each window or glazed door with improved frames, or pyrolytic low-e glass, or cl have a U-value and a Solar Heat Gain Coefficient (SHGC) no greater than that h must be calculated in accordance with National Fenestration Rating Council (NF only Alternative systems with complying U value and SHGC may be substituted	loor with impr lar Heat Gain cordance with with complyi	oved fran Coefficie National ng U valu	nes, or pyro nt (SHGC) Fenestratic le and SHG	Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clea 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 only Alternative systems with complying U value and SHGC may be substituted	Each window or glazed door with improved frames, or pyrolytic low-e glass, or clear/air gap/clear glazing, or toned/air gap/clear glazing must 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 The description is provided for information only Alternative systems with complying U value and SHGC may be substituted		4	<
For projections describec above the head of the will	d in millimetre ndow or glaze	s, the lea d door au	ding edge c nd no more	For projections described in millimetres, the leading edge of each eave, pergola, verandah, baic above the head of the window or glazed door and no more than 2400 mm above the sill	For projections described in millimetres, the leading edge of each eave, pergola, verandah, balcony or awning must be no more than 500 mm above the head of the window or glazed door and no more than 2400 mm above the sill	<	<	<
Pergolas with polycarbon	nate roof or si	nılar tran	slucent mat	Pergolas with polycarbonate roof or similar translucent material must have a shading coefficient of	of less than 0 35		<	<
External louvres and blin	ds must fully	shade the	e wobulw	External louvres and blinds must fully shade the window or glazed door beside which they are situ	ituated when fully drawn or closed		<	<
Pergolas with fixed batter shades a perpendicular v	ns must have window The :	battens pacing b	oarallel to th etween bat	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.		<	5
Windows and glazed doors glazing requirements Window Orientation Area of Overshadowing S	ed doors gl	azıng require Overshadowing	e quirem e Idowing	nts Shading device	Frame and glass type			
O	inc frame (m2)	Height (m)	Uistance (m)					
	12 7	0	0	eave/verandah/pergola/balcony >=450 mm	standard aluminium, single pyrolytic low-e, (U-value 57, SHGC 047)			
	8 0							
		0	0	none	standard aluminium, single clear, (or U-value 7 63 SHGC 0 75)			·

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BASIX Certificate number A24990

Mindoor Oresentation inc Mage Height Distance MLG 2 E 9 0 Second (m2) >=450 mm (L-value 5 7, SHGC 047) WLG 3 E 4 7 0 0 seve/verandah/pergola/balcony standard alummum, single pyrolytic low-e, (L-value 5 7, SHGC 047) WLG 4 S 3.6 0 0 none U-value 5 7, SHGC 047) WLG 5 S 1 0 0 none U-value 5 7, SHGC 047) WLG 6 S 1 0 0 none U-value 5 7, SHGC 047) WLG 6 S 1 0 0 none U-value 7 63, SHGC 075) WLG 7 E 16.5 0 0 none U-value 7 63, SHGC 075) WG 7 E 10.7 0 0 eave/verandah/pergola/balcony standard alummum, single clear (or U-value 5 7, SHGC 047) WG 7 S 10.7 0 0 eave/verandah/pergola/balcony (U-value 5 7, SHGC 047) WG 8 E 16.7 0	Orientation Area of Overshadowing lass (m2) Shading device 2 E 9.9 0 9.9 3 E 4.7 0 0 eave/verandah/pergola/balcony =400 mm 4 S 3.6 0 0 none 5 S 1 0 0 none 6 S 1 0 0 none 5 S 10.7 0 0 none 6 S 10.7 0 0 eave/verandah/pergola/balcony 2 E 10.7 0 0 none 6 S 10.7 0 0 eave/verandah/pergola/balcony 2 S 10.7 0 0 eave/verandah/pergola/balcony 2 S 0 0 eave/verandah/pergola/balcony eave/verandah/pergola/balcony 3 E 15.5 0 0 eave/verandah/pergola/balcony 2 S 0 0 eave/verandah/pergola/balcony eave/verandah/pergola/balcony 4 F </th
Area of Overshadowing Inc. Height Imme Distance (m) >=450 mm 2 E 9 9 0 0 >=450 mm 3 E 4 7 0 0 ==450 mm 3 E 4 7 0 0 ==450 mm 4 S 3 6 0 0 ==450 mm 5 S 1 0 0 ==450 mm 6 S 1 0 0 none 5 S 1 0 0 none 6 S 1 0 0 none 6 S 107 0 0 eave/verandah/pergola/balcony 2=900 mm 112 0 0 eave/verandah/pergola/balcony 2=450 mm 116 0 0 eave/verandah/pergola/balcony <td< td=""><td>Area of: Overshadowing Indexs Shading device Frame and glass type 2 E 99 0 >=450 mm (U-value 5 7, SHGC 0 47) 2 E 99 0 0 eave/variandah/pergola/balcony =450 mm (U-value 5 7, SHGC 0 47) 2 E 99 0 0 eave/variandah/pergola/balcony =450 mm (U-value 5 7, SHGC 0 47) 3 E 47 0 0 eave/variandah/pergola/balcony =450 mm standard alummum, single pyrolytic low-e eave/variandah/pergola/balcony standard alummum, single clear (or U-value 5 7, SHGC 0 47) 4 S 36 0 0 none standard alummum, single clear (or U-value 7 63, SHGC 0 75) 5 S 1 0 0 eave/variandah/pergola/balcony standard alumnum, single clear (or U-value 7 63, SHGC 0 75) standard alumnum, single clear (or U-value 7 63, SHGC 0 75) 6 S 107 0 0 eave/variandah/pergola/balcony standard alumnum, single pyrolytic low-e, sea00 mm 6 E 11.2 0 0 eave/variandah/pergola/balcony standard alumnum, single pyrolytic low-e, sea00 mm 6 E 11.2 0 0 eave/variandah/pergola/balcony standard alumnum, single pyrolytic low-e, sea00 mm 7 E 16 0 0 eave/varia</td></td<>	Area of: Overshadowing Indexs Shading device Frame and glass type 2 E 99 0 >=450 mm (U-value 5 7, SHGC 0 47) 2 E 99 0 0 eave/variandah/pergola/balcony =450 mm (U-value 5 7, SHGC 0 47) 2 E 99 0 0 eave/variandah/pergola/balcony =450 mm (U-value 5 7, SHGC 0 47) 3 E 47 0 0 eave/variandah/pergola/balcony =450 mm standard alummum, single pyrolytic low-e eave/variandah/pergola/balcony standard alummum, single clear (or U-value 5 7, SHGC 0 47) 4 S 36 0 0 none standard alummum, single clear (or U-value 7 63, SHGC 0 75) 5 S 1 0 0 eave/variandah/pergola/balcony standard alumnum, single clear (or U-value 7 63, SHGC 0 75) standard alumnum, single clear (or U-value 7 63, SHGC 0 75) 6 S 107 0 0 eave/variandah/pergola/balcony standard alumnum, single pyrolytic low-e, sea00 mm 6 E 11.2 0 0 eave/variandah/pergola/balcony standard alumnum, single pyrolytic low-e, sea00 mm 6 E 11.2 0 0 eave/variandah/pergola/balcony standard alumnum, single pyrolytic low-e, sea00 mm 7 E 16 0 0 eave/varia
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BASIX Certificate number A24990

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CONSTRUCTION MANAGEMENT PLAN

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237A WHALE BEACH RD WHALE BEACH

10-12-2008

V&D LUZAR PTY LTD 8 CHARLES CRT NORTH ROCKS NSW, 2151

Introduction

V & D Luzar PTY Ltd have been contracted to commence renovation works to the property located at 237A Whale Beach Rd, Whale Bch

The works are expected to commence in January 2009

The works are expected to take approximately eighteen months to complete and during the duration of the works various plant, machinery and trades people will access the above address

The following plan will provide advice regarding the impact of works on the surrounding properties, and the controls implemented by V & D Luzar Pty Ltd to minimize these impacts

Mobile Plant and Construction Traffic

Various mobile plant is intended to be used on the project

This includes cranes, excavators, compressors, concrete pumps and agitators

All mobile plant is able to be placed within the boundary of the property and therefore is not expected to impact on the daily use of the road reserve. It is expected that all plant will access the site from Whale Bch Rd and we should not be required to utilize The Strand to deliver plant or materials to the project

During deliveries to site, it may at times be unavoidable that the delivery vehicle occupies Whale Bch Rd whilst being unloaded During this time appropriate traffic control will be provided as required, including stop and go signage and personnel

Parking for the workforce will be provided within the existing ten car garage, as such it is not expected that any additional vehicles will be parked on the road reserve as a result of the works

Traffic and Pedestrian Safety

Traffic and pedestrian safety is not expected to be an issue during the construction works at 237A Whale Bch Rd

As previously discussed there is expected to be minimal impact on Whale Bch rd as the majority of plant and personnel will conduct the works from within the boundary of the property

Appropriate traffic and pedestrian control will be implemented at any time the works effect the road reserve In addition, if at any time the road reserve is required to be accessed for construction purposes a permit will be applied for through the council and all information required attached to the application form

Supervision and Management of Works

V & D Luzar Pty Ltd will provide a dedicated construction supervisor to the project at all times The supervisor will be rotated depending on the stage of construction as each of our supervisory staff has different fields of expertise

At no time will workers be allowed to access the site without a direct V& D Luzar Pty Ltd employee being present

The works will be conducted to comply with all council requirements, relevant Codes of Practice and Australian Standards

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	SYDNEY WATER APPROVED	
	 Position of structure in relation to Sydnes Water's assets is satisfactory Connections to Sydney Water sewer/wate services may only be made following the 1932 of a permit to a licensed plumber/drupper It is the owner's responsibility to ensure they 	
	All proposed fittings will drain to Sydney Water's sewer 4 Any Plumbing and/or Drainage Work to ce carried out in accordance with the Sydne, Water Act 1994 AS 3500 and the NSW Cose of Practice	
	 Gullies Inspection Shafts and Boundary Trads shall not be placed under any Roof Balces Verandah Floer or other cover unlos otherwise approved by Sydney Water Property No S458264 	
	Reece Mona Vale Qu.ck Check Agent on behalf of SYDNEY WATER	
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Development Application for 1'R DOUG OTTO
Development Application for <u><i>R</i></u> <u>DUDU</u> <u>DUDU</u> <u>DUDU</u> <u>Name of Applicant</u>
Address of site 237A WHALE BEACH RD, WHALE SEACH NSU
Declaration made by Structural or Civil Engineer in relation to the incorporation of the Geotechnical issues
I <u>RUBEEF ANGUS</u> on behalf of <u>CUNNEUL LUACNEL</u> PTYLTB (Insert name) (trading or company name)
(insert name) (trading or company name) on this the <u>15 12 0 S</u> (date) certify that I am a Structural or Civ' Engineer as defined by the Geotechnical Risk Management Policy for Pittwater I am authorised by the above organization/company to issue this document and to certify that the organization/company has a current professional indemnity policy of at least \$2million <u>1</u> also certify that I have prepared the below listed structural documents in accordance with the recommendations given in the Geotechnical Report for the above development
Geotechnical Report Details
Report Title PROPOSED ALTERATIONS & 40 BITTONS 237A WHALE BEACH RD Report Date 7, NOVE MBER 20007 Report Ref NO 21689WZ
Author A ZENON
Structural Documents list
BSOOD REVOS BSOID RENOY BSOLD REVOY BSOSD RENOY BSOUD REVOY BSUSC RENOY
We /I am also aware that Pittwater Council relies on the processes covered by the Geotechnical Risk Management Policy including this certification as the basis for ensuring that the geotechnical risk management aspects of the proposed development have been adequately addressed to achieve an Acceptable Risk Management level for the life of the structure taken as at least 100 years unless otherwise stated and justified
ROBEET ANGUS KAM
(name) (s'gnature)
Declaration made by Geotechnical Engineer or Engineering Geologist in relation to Structural Drawings
 We /I prepared and/or technically verified the abovementioned Geotechnical Report as per Form 1 dated Q/1/07, and now certify that A have viewed the above listed structural documents prepared for the same development at an satisfied that the recommendations given in the Geotechnical Report have been appropriate taken into account by the structural engineer in the preparation of these structural documents We /I am aware that Pittwater Council relies on the processes covered by the Geotechnical Risk Management Policy including this certification as the basis for Shouthay the geotechnical risk management aspects of the proposed development have been adequately addressed to achieve an "Acceptable Risk Management level for the life of the structure taken as at least 100 years unless otherwise stated and justified in the Report and that reasonable and practical measures have been identified to remove foreseeable risk <i>cis undiscrited in Report</i>
Signature Bruce FWaller Date 5/1/09
- Burner -
Name Bruce F WALKER
Name Beuce F WALKER
Name BRUCE F WALKER
Name BRUCE F WALKER Chartered Professional Status SPENA FLEAUST

P21 DCP Appendix 5 Page 19

The Design Section The Design Section Pty Ltd Architects • Suite 5/40 Avalon Pde Avalon NSW 2107 Postal Address PO Box 71 Avalon NSW 2107 • Phone 9918 7570 • Fax 9973 1805 • Email G.Watson@designsection.com.au G.R.WATSON REGISTERED ARCHITECT 3044. ABN 63 003 578 676

12/12/07

Alteration and Additions to 237a Whale Beach Rd, Whale Beach for Mr & Mrs D. Otto

Schedule of Finishes

WEATHERBOARDS & TIMBER Dulux Patio Charm



RENDER Dulux Warm Neutral, Colour Specifier: P13·D3



SPECIFICATION OF THE WORKS TO BE PERFORMED AND MATERIALS TO BE USED IN THE CONSTRUCTION OF ALTERATIONS AND ADDITIONS TO 237A WHALE BEACH ROAD, PALM BEACH FOR DOUG AND RITA OTTO

This is the Specification referred to in the Conditions of Contract and Agreement signed by us and dated this

	day of	2008
Proprietors		
Witness		
Contractor		
Witness		_

THE DESIGN SECTION PTY LTD Architects 5/40 Avalon Parade AVALON NSW 2107 Telephone 9918 7570

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A PRELIMINARIES

A 01 Materials and Workmanship

All materials, workmanship and methods of construction shall comply with the Codes of the Standards Association of Australia, the Building Code of Australia and the provisions of Conditions of Contract

No substitution of materials shall be made without the approval of the Architect

A 02 Responsibility

The builder shall be held responsible for the proper execution of all work and for the care. maintenance and protection of all materials and fittings comprised in any sub-contract

The Builder shall exercise reasonable care and protection but will not be held responsible for any work, materials, equipment or fittings comprised in any separate contract with the Proprietor

THE BUILDER SHALL BE HELD RESPONSIBLE FOR THE WATER-TIGHTNESS OF THE WORKS

A 03 Foreman and Supervision by Builder

Keep a competent Foreman constantly on the works in charge of all trades, and any directions or explanations given by the Architect to the foreman shall be held to have been given to the Builder

Reasonable personal supervision by the Builder shall be provided

The Builder shall be responsible for the co-ordination of all trades and Subcontractors and shall arrange their work so as to facilitate general progress of the whole of the works in an orderly fashion

A 04 Temporary Services

- **Power** 1s available on site
- Water Mains Supply is available on site
- **Toilet** Provide on site WC and arrange to pay for waste collection

A 05 Discrepancies

Where any variation occurs between the drawings and the Specification the interpretation adopted by the Architect shall be accepted as correct

A 06 Attend Upon and Make Good

Ensure that in addition to any items of work specified in the trade sections, each trade assists, arranges with, leaves holes for, cuts away for, does all chasing and drilling for and makes good after every other, when and where necessary

Make good to all roadways, footpaths and adjoining properties and fences which may become damaged or disturbed as a result of the cartage of materials on to the site, or which may be damaged or distributed as a result of work in connection with the Contract

Clean up the whole of the site affected by the building operations and make good any damage whatsoever caused by the execution of the works and restore to original condition and/or make good to the satisfaction of the Architect

Remove on completion. all surplus materials and rubbish, ease all doors and windows, clean all surfaces and fittings, hand over all keys properly tabulated and leave the whole of the works clean and fit for immediate occupation

A 07 Meaning of Terms

PROPRIETOR	Shall mean Doug and Rita Otto
BUILDER / CONTRACTOR	Shall mean the person, persons, firm or company contracting for the building
ARCHITECT	Shall mean The Design Section Pty Ltd or its appointed representative
STRUCTURAL ENGINEERS	Shall mean Connell Wagner Pty Ltd, 116 Mılıtary Road, Neutral Bay NSW 2089
TO BE. TO HAVE. PROVIDE	Shall mean that such items are to be supplied and fixed by the Builder
APPROVED, DIRECTED. SELECTED	Shall mean approved, directed or selected by the Architect
ALLOW	Shall mean the cost of the item or work is at the risk of the Builder
СР	Shall mean chromium plated

GMS	Shall mean galvanised mild steel
S C P	Shall mean satin chromium plated
I D	Shall mean internal diameter
O D	Shall mean outside diameter
F S	Shall mean finished size of timber after dressing
S S	Shall mean stamless steel

<u>B</u> DEMOLITION

B 01 Generally

Demolish the items noted on the drawings and listed below and remove from site All work to comply with AS2601-1991 and the requirements of the WorkCover Authority of New South Wales

B02 External Demolition

Demolish and remove the following

(a) **Basement Level Yard**

- Terraces to east of house
- Retaining wall as required
- Stairs from northern path

Basement Level House

- Projecting angled walls facing east
- All existing windows
- Break out door DB3 opening

(b) Lower Ground Floor Level Yard

- Paths to north and south of house
- Driveway

Lower Ground Floor Level House

- All existing windows
- Break out openings for windows WLG 6, WLG 8. WLG 9

(c) Ground Floor Level Yard

- Driveway
- Portion of entry path garden retaining wall
- Retaining walls on west boundary

Ground Floor Level House

- Balustrade to Bedroom 3
- Entry door
- Terrace tiles and mortar bed
- Terrace handrails
- Break out opening for window WG 11
- Steel pergola frame to Terrace

(d) First Floor Level House

- All existing windows
- Balustrade to Bedroom 2
- Balustrades to Bedroom 1 and Study Terrace

• Tiles and mortar bed to Terrace

(e) Roof Level

- Pergola over Terrace
- All existing skylights
- Roof membranes
- Break out openings for new and modified skylights

B03 Internal Demolition

Demolish or remove the following

- (a) **Basement Level**
 - All floor finishes including stair treads and risers
 - Concrete floor slab to Pool Terrace Room
 - Floor slab to lift well
 - All doors and frames
 - Break out opening to unexcavated area
 - Stair handrails
 - Walls in Pool Terrace Room and Beach Store
 - All suspended ceilings

(b) Lower Ground Floor Level

- All floor finishes including stair treads and risers
- All doors and frames
- Stair handrails
- Walls in Bedroom 5, Bedroom 6, Wine Cellar and Spa Room
- Void for lift well
- Floor slab under Spa Room
- Floor slab in Garage to take vehicle turntable
- Garage door
- All cabinetry
- All suspended ceilings

(c) Ground Floor Level

- All floor finishes including stair treads and risers
- Wall in Kitchen / Dining Area
- Walls in Laundry / catering Kitchen
- Void for lift well
- Wall in Bedroom 3
- Move door openings in WC1 and Ensuite 3
- Timber stair treads and risers and balustrade
- All suspended ceilings
- All cabinetry

(d) First Floor Level

• All floor finishes including stair treads and risers

- Walls in Ensuite 1
- Wall in Bedroom 2
- Walls around lift well
- Void for lift well
- Wall in Ensuite 2
- All suspended ceilings

<u>C</u> EXCAVATION AND SITEWORKS

C 01 Excavation Generally

Provide all planking and strutting to secure and maintain sides of all excavations

Construct runways clear of excavations Keep all excavated areas free from surface and seepage water by pumping or diversion drainage Remove all obstructions and fill solid with approved material

No excavations are to be filled, nor back and special filling done before inspection and approval

Backfill, ram and well consolidate all around finished areas with best of excavated material from site

C 02 Excavation

Allow for all excavation in material "as found" Excavate for

- Swimming pool (pool to be constructed by others)
- Lower Pool Terrace and access stair
- Lower Path to Beach Store
- Footings to Pool Terrace Room east wall
- Lower Pool Terrace Room floor
- Void behind wall of unexcavated area in Basement to provide access behind south and west walls
- Lower floor level in Spa Room
- Recess under vehicle turntable

Excavated material is to be disposed of by Builder

C 03 Geotechnical Report

A Geotechnical Report prepared by Jeffery and Katauskas Pty Ltd accompanies this specification Builder to read report and comply with any recommendations

C 04 Solid Floors

Consolidate fully beneath all new slabs on the ground

C 05 Termite Protection

Install termite protection in accordance with AS3660 1-1995 and provide certification on completion All equal to KORDON

C 06 Fencing

Provide a cyclone wire security fence 1800 high around site Provide fences around trees to be retained and protected

D CONCRETOR

D 01 Generally

All concrete works shall comply with AS2870 - 1996 and the Structural Engineers Drawings

D 02 Footings

Provide concrete footings to all new walls and floor slabs to Engineers details

D03 Floor Slab on Ground

Provide reinforced concrete slabs over membranes equal to FORTECON lapped, taped at joints, taped to pipes, turned up at edges of slabs to manufacturer's instructions. Screen slabs level or to falls indicated and finish as laid to an even uniform finish as scheduled.

D 04 Slab Setdowns

Provide setdowns in slabs for tiled floors adjacent to other finishes

D 05 Formwork

Provide formwork for concrete to the shape, lines, dimensions and for the standard of finish specified Formwork shall be rigid, tight and substantial and accurately constructed for the formed finishes scheduled Maintain forms for the periods indicated to Engineer's details Formwork to be in accordance with AS3610 – 1995 Finish from forms to be ACSE Specification Class 2

D 06 Curing

Keep concrete surfaces moist by approved means for seven (7) days after pouring

D 07 Joints

Provide joints in concrete, and between concrete and brickwork to Engineer's details

D 08 Steel Reinforcing

Provide and fix reinforcing steel and mesh as shown on Engineer's drawings

<u>E</u> BRICKWORK, BLOCKWORK AND STONEWORK

E 01 Brickwork Generally

Bricks shall be clay complying with AS21 and AS140 and shall be sound, hard, well burnt and of even size Wet well at time of using and finish up each course

E 02 Mortar

Mortar shall consist on one part cement, three parts sand Aerator may be added Alternatively mortar shall consist of one part cement, one part building lime, three parts sand

E 03 Walls

Build walls plumb, true and level Build in fittings, flashings and fixings Build all walls in STRETCHER BOND Build in wall ties for brick veneer walls every fourth course

Leave weepholes every fourth perpend over flashings Keep wall cavities free from mortar

E 04 Joints

Finish joints struck to take cement render

E 05 Arch Bars and Angle Lintels

Hot dipped galvanised steel flats and angles shall be built in as follows to each 110 thickness of brickwork

For spans up to 1050 provide one 100 x 10 bar For spans up to 1500 provide one 100 x 76 x 10 angle For spans up to 2150 provide one 152 x 89 x 8 angle

Bars shall be cambered 10 with 110 bearing each side Angles shall have 230 bearing each side

Paint steelwork to external walls as specified before erection

Wrap bars in galvanised chicken wire where plastered surfaces occur

Refer also Engineer's details

E 06 Dampcourses

Build in dampcourses of SUPER GRADE ALCOR full width of brickwork to all walls, lapped 115 at joints and intersections, and one course above paving or finished ground to boundary and external walls

E 07 Building In

Build in all straps, tiles, plates, metalwork and other fittings required by other trades

E 08 Concrete Blockwork

Provide reinforced concrete block columns to retain beside entry stairs to Pool Terrace and to replace existing retaining walls on west boundary

E 09 Sandstone

Provide and fix exterior sandstone facing to north and south walls of house, to portion of west wall, to columns supporting Bedroom, Terrace and to walls beside driveway and front boundary walls

Sandstone to be equal to GOSFORD SANDSTONE right to white tones Provide samples for approval of colour and finish Stone to be approximately 30 thick, 1200 long, dimensioned to regular courses approximately 600 high with sawn edges and face Lay in vertical tile pattern as indicated, fixed to existing walls with approved SS clips Grout joints in approved cement / lime mortar Mitre external corners

F METALWORKER

F01 Generally

Except as otherwise specified all steel and structural steelwork shall comply with AS3990 - 1993 and AS4100 - 1990 and with the ACSE Structural Steelwork Specification

Provide all steelwork specified or indicated on the Drawings In particular, provide all steelwork specified in other trades or required to construct and complete the works

The Builder shall satisfy himself as to the accuracy of all dimensions and shall be responsible for the correct setting out of the positions and levels and fittings of all parts of the metalwork

F_02 Structural Steelwork

Supply. fabricate and erect structural steelwork as indicated and to Engineer's details, shoptreated to Engineer's specification before delivery to the site

Submit shop drawings to Engineers for checking in advance of fabrication

F 03 Galvanising

Note that the site has extreme exposure to airborne salt due to its proximity to the ocean

All galvanising must conform to the Engineer's Specifications, and to AS1650 - 1989

F 04 Stamless Steel Columns

Provide fabricated 316 grade SS columns to Living Terrace pergola all to engineer's details Coat with NIACOTE after installation is complete

F 05 Stainless Steel Spigots

Provide and fix SS spigots to support all frameless glass handrails Spigots to be equal to DORMA MIRAGE MI 316 grade satin stainless steel 170 high core drilled into concrete slabs and chemset fixed Coat with NIACOTE protective finish after installation

F 06 Stamless Steel Top Rails

Provide and fix 316 grade SS top rails to all frameless glass balustrades except pool fence Rails to be 32 OD tube, grooved to take glass balustrade Coat with NIACOTE after installation Mitre and weld joints at corners

F07 Laundry Hanging Rail

Construct hanging rail in Laundry to detail Rail to be 30 OD SS tube with fixing plates at each end

G CARPENTER AND JOINER

G 01 Timbers

Provide timbers of species and grades specified, reasonably straight grained and free from defects. affecting durability, strength or appearance All timber shall be sawn unless otherwise specified Dressed timbers to be seasoned or kiln dried

G 02 Generally

The whole of the carpentry and joinery throughout is to be framed, trimmed and finished in the best and most workmanlike manner all necessary templates, linings, blocks. stops, ironwork and ironmongery to be provided and fixed and all trimming, grooving, rebating, housing, bedding, mitring, throating, etc, incidental to work to be done though not specifically mentioned All joinerv timber for doors and frames to be sawn on the quarter

Frame up and finish all work accurately and neatly in the best and most workmanlike manner All frames shall be fully tenoned All external screws shall be brass or S S All timber exposed to view shall be wrot

All joinery to be finished with sandpaper by hand to a perfectly smooth finish to receive painting or clear finish specified

All external nails to be stainless steel

All framing to conform to requirements of AS1684 – 1992 Timber Framing Code, NSW Timber Framing Manual and AS1720 1 – 1988

<u>G 03 Stud Walls</u>

Construct new internal stud walls as indicated Frame up with 90 x 45 pine studs at 450 centres with 90 x 45 top and bottom plates and one row of nogging Brace with plywood or perforated GMS angles Inner skin of brick veneer walls to be strapped to brick walls with GMS ties as specified in BRICKWORK above

G 04 Stair Treads

Construct new timber stair between Ground and First Floors to match existing Treads and risers to be ex 50 thick DAR SILKY OAK Construct to detail with joints biscuited and glued to provide a stable squeak-free stair Cut neatly against wall all to be fine sanded and clear finished Remove and re-fit existing round timber handrail

G 05 Timber Floor

Allow to fine sand and clear finish existing timber floor boards and stair treads in Entry Lobby on Ground Floor

G 06 Door Frames

All door openings are to have new frames fitted Frames to be ex 50 thick TASMANIAN OAK rebated to take door and gauged to finished wall thickness All paint finish Not that the door frames have no heads

G 07 Stair Handrails

Remove all round timber handrails from internal stairs Re-fit rails, sand and clear finish

<u>G 08</u> Insulation

All drainage lines inside house are to be wrapped with acoustic insulation blankets equal to ROCKWOOL before wall and ceiling linings are fixed in place

G 09 Doors

Provide doors of the types below, complete with hinges specified and hardware scheduled Fit locks, latches and bolts as scheduled, the supply of which is included in the PC Sum

Supply and fit hinges equal to MIGLAS SS CONCEALED DOOR HINGE Allow 3 per door leaf

Note Provide hinges of sufficient throw to achieve 180 degree swings

(a)	Type A doors	Solid timber doors with SILKY OAK veneer facing and ex 18 thick DAR SILKY OAK edge strips, glued and mitred Clear finish
(b)	Type B doors	Timber framed doors with 200 x 50 DAR SILKY OAK top rails, stiles and bottom rails, rebated to take 10.6 thick laminated glass Meeting stiles rebated
(c)	Type C doors	As Type A doors, with 800 x 150 glass vision panel fixed vertically 150 from stile on handle side
(d)	Type D doors	Solid timber waterproof doors with SILKY OAK veneer facing and ex thick DAR SILKY OAK edge strips, glued and mitred Clear finish
(e)	Type E doors	In-wall sliding door units Doors to be solid timber with SILKY OAK veneer facing and 18 thick DAR SILKY OAK edge strips, glued and mitred Clear finish

G 10 Door Schedule

Confirm all door sizes on site Fix hardware Allow to fix doorstops to all doors Note that all doors will be carried to ceiling height Where adjacent rooms have different ceiling heights, frames will extend to higher ceiling level, and a fixed panel to match door will be fitted between the two ceiling levels

Door	Size	Туре	Hardware Fixed by Builder
DF1	2700 x 820	A	Mortise latchset
DF2	2700 x 820 (2 pieces)	D	Mortise latchset
DF3	2700 x 1000	Α	Mortise latchset
DF4	2700 x 820	А	Mortise latchset
DG1	2700 x 790 (2 pieces)	Α	Mortise privacy set
DG2	2700 x 820	А	Mortise latchset
DG3	X 720	Α	Mortise privacy set
DG4	2400 x 1500	D	Mortise deadlock with electric
			striker
DG5	X 820	С	Flush pulls
DLG1	X 820	А	Mortise deadlock with electric strike
DLG2	X 820	А	Mortise latchset
DLG3	2700 x 820 (2 pieces)	D	Mortise latchset
DLG4	2500 x 720 (2 pieces)	D	Mortise latchset
DLG5	2500 x 720	E	Flush pulls
DLG6	2500 x 820	А	Mortise latchset
DLG7	2500 x 820	А	Mortise latchset
DLG8	2500 x 720 (2 pieces)	D	Mortise latchset
DLG9	2700 x 820 (2 pieces)	А	Mortise latchset
DB1	2400 x 2500 pair	В	Flush pulls, flush bolts
DB2	2400 x 1400 pair	В	Flush bolts, mortise latchsets
DB3	Anodised aluminium glazed		Mortise deadlock with electric
	door		striker
DB4	2400 x 720	D	Mortise privacy set
DB5	2500 x 720	Α	Mortise privacy set
DB6	2400 x 720	Е	Flush pulls
DB7	2400 x 820	А	Mortise latchset
DB8	2400 x 820	D	Mortise lockset
DB9	2400 x 820	А	Mortise lockset
DB10	2400 x 820	А	Mortise lockset
DB11	2400 x 820	D	Mortise lockset

<u>G 11</u> Weatherboards

Demolish all existing weatherboards Replace with 150 x 25 DAR shiplap MERBAU boards, profiled to match existing Note two different profiles Nail boards to studs, pre-drill end nails Punch and fill Stain finish

G 12 Ceiling Plywood

Provide and fix timber ceilings to Living Room and Bedroom 1

Ceilings to be 13 thick plywood with SILKY OAK veneer facing Edges to be stripped with ex 18 wide DAR SILKY OAK gauged to ply thickness Glue fix and mitre corners All clear finish

G 13 Passenger Lift

Builder to co-operate with contractor who will provide and fit passenger lift as specified below under ELECTRICIAN

<u>G 14</u> Gas Fireplace

Supply and fit gas fireplace to Bedroom 1 Fireplace to be JETMASTER 850 Low Line Single Sided unit

G 15 Bathroom Hardware

Allow to fit the following bathroom hardware, the supply of which is allowed in the Schedule of Monetary Sums

(a)	toilet paper holders, to be selected	10 off
(b)	spare paper holders VOLA 14	10 off
(c)	heated towel rails. DCS FINELINE	14 off
(d)	towel rails, to be selected	5 off
(e)	towel shelf. to be selected	2 off
(f)	robe hooks	14 off

G 16 Beach Shower Room Timber Seat

Construct a timber seat as follows

Perimeter frame to be 75 x 38 DAR glued and screwed to 50 x 50 DAR inner frame set flush with bottom of perimeter frame Nail fix 75 x 25 DAR slats to inner frame with 6 gaps between slab Fixing nails to be nailed from underneath Support seat on 38 x 38 SHS SS frame trenched into brick wall to provide cantilever All timber SILKY OAK

<u>G 17</u> Cupboards and Cabinets

Supply and fit new cupboards and cabinets to

• Bedroom 1

- Walk-ın Robe
- Rita's Office
- Kıtchen
- Catering Kitchen
- Laundry
- Pool Terrace Room
- Beach Store

All cupboards to be first quality, constructed of MDF or HMR board Exterior to all cupboards to be SILKY OAK VENEER clear polyurethane finish with 13 FS solid timber edge strips mitred at corners and gauged to thickness

25

Interior shelves to be MDF board minimum 18 thick white melamine finish with matching laminate edge strips where exposed Where noted on drawings in Bedroom 1, interiors to be HOOP PINE clear finish

Kickboards to be waterproof plywood All hinges equal to BLUM 170 degree All drawers to run on BLUMOTION fittings

Benchtops, nosings etc to be as noted on drawings, generally CORIAN, stainless steel 316 grade or laminate Corian to be fitted by supplier – licensed applicators only

Allow to fit HAFELE EURO CARGO 45 SORTER bins to Kitchens as indicated

Provide No 2 cutlery inserts each to Kitchen and Catering Kitchen

G 18 Vanity Units

Provide and fit vanity benches and cupboards as detailed to

- Ensuite 1
- Ensuite 2
- Ensuite 3
- Ensuite 4
- Ensuite 5
- Ensuite 6
- WC1
- WC2
- Beach Shower Room

Construction to be generally as in G 17 above

G 19 Wardrobes

Provide and fit wardrobes and cupboards to detail Provide to

• Walk-ın Wardrobe

- Bedroom Lobby Cupboard
- Bedroom 2 Wardrobe
- WC1 Cupboard
- Bedroom 3 Wardrobe
- Bedroom 4 Wardrobe
- Bedroom 5 Wardrobe
- Bedroom 6 Wardrobe

Wardrobes generally to have 35 thick hollow core doors with SILKY OAK veneer and ex 18 thick solid SILKY OAK timber edge beads mitred at corners

Wardrobe interiors to be MDF board with HOOP PINE veneer Shelves to be 25 thick veneered MDF board

Provide proprietary SS hanging rails and fittings to detail

G 20 Bed to Bedroom 1

Construct bed to Bedroom 1 Provide 90 x 42 FS SILKY OAK fascia, rebated to take 16 MDF top SILKY OAK veneered Base to be 18 MDF board SILKY OAK veneered, mitred at corners Screw fix base to floor Fix 38 x 38 SHS frame to base to support bed top All clear finish

G 21 Wine Cellar

Allow the PC Sum scheduled for fitting out of wine cellar Noted that floor, wall and ceiling finishes to be provided by Builder

G 22 Driveway Gates and Pedestrian Entry Gate

Construct new gates generally to match existing Internal frame to be hot dipped GMS with facing timber to match house Weatherboards as specified above

G 23 Screen Wall to Driveway

Construct a new timber screen wall to the south side of the driveway Studs to be 90 \times 45 treated pine at 450 centres with 90 \times 45 top and bottom rails and one row nogging Face with weatherboards to match house Cap wall top and ends with 150 \times 75 DAR MERBAU chamfered on exposed face

H ROOF AND ROOF PLUMBER

H01 Roof Generally

The work specified comprises the supply and fixing of roofing indicated, together with the provision of all labour, plant, services and accessories necessary to provide a completely watertight roof All work to be in accordance with AS/NZS 1561 1 - 1992 and AS/NZS 2179 1 - 1994 and the manufacturers or suppliers written instructions

H 02 Roof Membrane

Existing membranes to be demolished Apply 3 layers of approved torch-on bituminous membrane with trafficable finish Dress up around all upstands and carry to top of upstand Apply bond-breakers where required at corners

H 03 Cappings

Supply and fit zinc cappings to tops of parapet roofs, dressed over membranes and external wall finishes

H04 Downpipes

Downpipes and rainwater heads will be reused

H05 Leaf Guards

Provide leaf guards over tops of downpipes

J PLUMBER AND DRAINER

J01 Generally

Carry out the works to conform to AS/NZS 3500, the rules and regulations of Sydney Water and the requirements of Local Council, and in this respect, allow for all requirements when tendering Make all applications, including application to Sydney Water. pay all fees and deposits, make all necessary tests, and execute the plumbing and drainage work to the satisfaction of the Architects All fixtures shall be installed in accordance with the Manufacturer's instructions Supply all fittings and accessories necessary to make a first class finish

Relocate water and gas meters to new location as directed

J02 Plumbing Layout

The Builder shall be responsible for taking all dimensions on site The drawings are diagrammatic only, and the layout of the systems and fittings shall be confirmed with the Architects before work is commenced

J03 Stormwater Drainage

Connect new stormwater drainage lines and tanks to the existing stormwater disposal system Provide and connect No 2 WATERPOINT CLASSIC 4500 litre rainwater tanks east of swimming pool Connect to existing system, modified with thrust blocks and supporting brackets All drainage pipes to be 100 diameter sewer grade PVC Provide and fit pump adjacent to tanks with supply line out of tanks to connect to pool re-filling hose cock, and to garden hose cocks as scheduled below

J04 Sewer Drainage

Extend existing sewer drainage system to connect to

- Beach Shower Room
- Pool Terrace Room
- WC2
- Spa Room
- Ensuite 6
- Ensuite 5
- Ensuite 4
- Kıtchen
- Catering Kitchen
- Laundı y
- Ensuite 3
- WC1

- Ensuite 2
- Ensuite 1

Drains to be 100 diameter sewer grade PVC Fit all reflux valves, gully traps and fitting as required and discharge to mains sewer

Connect swimming pool drainage to sewer system

J05 Sanitary Plumbing

Supply and fix all waste, soil and vent pipes from all fittings as described and indicated including flashings for vents, all inspection openings, bends, reducers, junction pieces, supports for piping, vent cowls, floor waste, and connections to drains

J 06 Cold Water Service

Relocate existing water meter and extend cold cocks and water heaters to main supply in capillary fittings throughout, all soldered to copper tubes of the appropriate size Allow to provide 38 diameter supply pipe from water meter to first branch line, and 25 diameter pipes from first branch to secondary branch lines

Conceal all pipes and securely fix to structure Bury pipes externally 300 minimum below ground Pipes exposed adjacent to fittings shall be SCP with SCP wall plates Provide external screwed brass hose cocks and standpipes where indicated, and hose cock over gully

Refer SCHEDULE 2 and connect cocks therein

J 07 Hot Water Service

Provide No 3 new gas storage water heaters in approved locations

Piping to be copper as for cold water service with all pipes pre-lagged

Install each unit on 100 thick concrete base pad

Refer Schedule 2 Fit all cocks scheduled

J08 Pipework in Slabs

No pipework for hot and cold water services shall be laid in structural floor slabs

J 09 Pipe Fixings

All pipework shall be supported so that it is free to move without causing stresses in the pipework or pipe joints All water piping shall be securely fastened clear of structure The works shall be free of system noises and water hammer

J 10 Plumbing Fittings

Install plumbing fittings as scheduled and indicated Provide cement grading and outlet beneath bath, terminated with SCP flange

J11 Floor Wastes

Provide and fix floor wastes to all wet rooms Wastes to be 100 x 100 IPLEX SMARTILE Code D1 01 STILESS 100 with SS surround frame and lift out tile tray Shower wastes to be SS grated drains of appropriate length equal to VEITCH shower channels 60 wide

J 12 Gas Service

Supply and fit a new gas meter in approved location Extend in concealed capillary fittings and copper tube throughout Supply and fix all necessary couplings, connections, tail pipes, pits etc to complete the service Excavate, backfill and make good all surfaces affected

Extend gas service to Kitchen and Catering Kitchen, BBQ points on Pool Terrace, Living Terrace, Bedroom 1 fireplace and hot water heaters in yard (3 off)

J13 Sydney Water Certificate

Obtain the Certificate of SATISFACTORY COMPLETION and deposit with Architect prior to Practical Completion

J 14 Solar Pool Heating

Allow to fit pipes supplied by others from lower ground level adjacent to pool, to new solar heating supplied and fitted by others on roof

K PLASTERBOARD FIXER

K 01 Generally

Carry out work in accordance with AS/NZS2588 – 1998 and AS/NZS 2589 1 – 1997

K02 Plasterboard

Provide 10 thick GYPROCK SUPA-CEIL lining to ceilings as scheduled in SCHEDULE OF FINISHES below and 10 thick GYPROCK lining to new stud walls and adhesive-fixed to existing rendered walls Sheets to be recessed edge. nailed and glued. all set true level and square Tape joints, stop holes, flush joints with joining plaster sanded down to a smooth and even surface Reinforce corners with perforated angles All in accordance with manufacturer's printed instructions

K03 Wet Area Plasterboard

To Wet Room ceilings provide plasterboard equal to GYPROCK AQUACHEK 13 thick Apply strictly in accordance with manufacturers detail manual Sheets to be recessed edge, screw fixed all set level, true and square Tape joints, stop holes, flush joints with joining plaster sanded to a smooth and even surface

K04 Cornices

Junctions between walls and ceilings to be finished with RONDO SHADOWLINE stopping angles Code P50 There will be no cornices

K05 Perforated Angles

Reinforce corners of plasterboard with perforated SS angles

K06 Suspended Ceilings

Provide a suspended ceiling system equal to RONDO for all ceilings under concrete slabs Provide and fit a grid of primary and secondary sections with all clips, brackets and suspension rods as required

K07 Beam Boxing

Allow to box around steel beams in Basement level ceilings

L PLASTERER

L01 Generally

Carry out all work in accordance with AS CA 27 Finish surfaces true. flat, plumb, square and free from imperfections

L 02 Materials

Cement lime render shall consist of three (3) parts of sand to one (1) part cement with 10 percent lime added

Cement render shall consist of three (3) parts of sand to one (1) part cement

Plaster shall be gypsum plaster gauged with lime in the ratio 3 1

L03 Preparation

Prepare surfaces to give adequate bond, thoroughly saturate before application Any drummy plastering shall be removed and replaced

L 04 External Cement Render

Render one coat 13 thick cement render applied with wood float and sponge finish to all exposed new external brick and concrete surfaces

L 05 Internal Cement Render

Render one coat 13 thick cement render wood float finish to brick walls to be tiled Ensure all render is true and corners are vertical

Render one 13 thick cement lime render scratch coat to other new internal brick walls. to take 3 thick set plaster steel trowel finish

<u>L 06 Junction of Materials</u>

At all junctions of different materials eg brick to concrete. form cut joints deep enough to ensure free movement

M TILER

M1 Generally

Carry out all tiling in accordance with AS3958 1 – 1991 and AS3958 2 Carry out waterproofing in wet areas in accordance with AS3740 – 1994

M 02 Tiles

Tiles will be SAN SEBASTIAN Limestone supplied by ARTEDOMUS, Tel 9557 5060. Contact Dwayne

- Internal floor tiles to be 600 x 600 x 20 thick honed finish
- External floor tiles to be 600 x 600 x 20 thick sandblasted finish
- Internal wall tiles to be 600 x 600 x 12 thick honed finish
- Internal slabs to be full height with widths varying to match drawings Slabs 20 thick honed finish for floors and walls
- Stair treads to be 30 thick slabs honed finish internal, sandblasted finish external Nosings square cut with pencil round edges Provide and fit approved SS antislip strips to leading edges of stair treads grooved into stone slabs

Note that delivery time will be 12 – 14 weeks after placing order

Joints to be minimal width to approval

M 03 Laying of Tiles

(a) Allow to seal to supplier's recommendation Direct glue **floor tiles** and slabs with approved adhesive to waterproof membranes applied over mortar beds graded to falls Cut neatly around floor wastes and into grated drains Finish tiles at junctions with dis-similar finishes with aluminium trim angle fixed to floor slabs

Cement grout floor joints with ASA GROUT ADDITIVE mixed to approved colour

Tile under all vanity units and cupboards

(b) **Wall tiles and slabs** to be fixed with approved adhesive to rendered walls Joints to be finished with approved colour grout

No tiles behind mirrors or cabinets

Confirm all tile setouts with Architect before commencing work

M 04 Membranes

Membranes to be applied to certain areas before tiling To floors of all Wet Rooms, all Basement level floors. all external decks and verandahs, apply membrane equal to DURAM MULTITHANE UV primed with AZCOSEAL installed and certified by specialist applicators Membranes must be applied to all floors <u>over</u> graded mortar beds, and to external decks to base concrete slab as well as over mortar bed

Apply to entire floor, and to walls full height in showers, above and below baths and minimum 200 above floor at wall junctions Carry membranes over floor waste flanges and into waste pipe

N GLAZING

<u>N 01 Generally</u>

Provide glazing in accordance with BCA and AS1288 – 2006 and AS/NZS2208 – 1996 Safety glazing shall be laminated glass UNO All glass will be clear unless noted on Schedule Obscure window glass to be equal to PILKINGTONS WHITE LAMINATED Note that BASIX requires the use of specific glass as noted on the Schedule

- Single Pyrolytic Low-E Glass
- Glass with U-valve 7 63 and SHGC 0 75

The glass supplier will be required to certify that these requirements have been met

<u>N 02</u> Aluminium Framed Windows

Supply and fix aluminium framed windows and doors as indicated on WINDOW SCHEDULE Frames to be equal to LIDCO extrusions, generally commercial extrusions Finish with clear anodising equal to A A F EVERSHIELD COASTAL Allow for all fixing angles, sealants as required Measure as built openings and provide neat fit Provide folded aluminium sill liners of matching colour

Note that the site is exposed to severe weather and all joints between aluminium sections should be continuous silicon sealed Test job on completion for weather tightness and rectify any problems promptly All opening sashes to be fitted with approved draft excluder strips

Provide keyed locks to sliding and hinged doors, hinges and strike plate to entry doors Handles to sliding doors to be approved SS D handles All frameless double hung window to be equal to ANEETA

Note that all opening windows to be screened with black insect mesh in powdercoat aluminium frames unless noted otherwise

Awning windows to be fitted with lockable window winders equal to LANE, with **stainless steel chain** External case to be clear anodised aluminium

<u>N 03 Mirrors</u>

Mirrors to be 6 polished plate, silvered and copper backed with polished edges, bevelled 25 wide Sizes as directed on Wet Room details Fix with double sided adhesive tape and mastic seal edges to prevent moisture penetration

Allow to fit mirrors to

(a) Dressing Room and Doug and Rita's wardrobes

		7 off	S1zes 2600 x 1900, 2600 x 1100 (2 off), 2600 x 1350, 2600 x 750, 2500 x 2450, 2600 x 220
(b)	Rita's Office	1 off	Size 1600 x 1200
(c)	Ensuite 1	1 off	Size 2700 x 2150
(d)	Ensuite 2	2 off	Sizes 1500 x 1100, 1100 x 400
(e)	Ensuite 3	2 off	Sizes 1600 x 1200, 1200 x 400
(f)	WC1	1 off	S1ze 2500 x 1400
(g)	Ensuite 4	2 off	Sizes 1600 x 1350, 1350 x 400
(h)	Ensuite 5	2 off	Sizes 1600 x 1100, 1100 x 400
(1)	Ensuite 6	2 off	Sizes 1600 x 1350, 1350 x 400
(J)	Spa Room	8 off	S1zes 1400 x 1200 (3 off), 1800 x 1200 (2 off), 2400 x 600 (2 off). 2400 x 800
(k)	WC2	2 off	Sizes 1750 x 1500, 1750 x 400
(1)	Beach Shower Roo	m 1 off	Size 1200 x 1000
(m)	Beach Store	3 off	Sizes 1500 x 800. 800 x 800, 800 x 400

Note that sizes are approximate, and must be confirmed on site

<u>N 04</u> Shower Screens

Supply and fix toughened glass shower screens fixed with SS patch brackets and hinges All edges rounded and polished Seal junctions with floor and wall Provide screens to

Ensuite 1	1 fixed panel, 1 door both obscure acid etched
Ensuite 2	2 fixed panels, 1 door all clear
Ensuite 3	2 fixed panels, 1 door all clear
Ensuite 4	1 fixed panel clear
Ensuite 5	1 fixed panel clear
Ensuite 6	1 fixed panel clear
Spa Room	1 fixed panel clear
Beach Shower Room	2 fixed panels, 1 door clear

Doors to swing 180 degrees

Provide and fit approved SS D handles to each side of doors

N 05 Frameless Glass Balustrades

Provide and fix frameless glass balustrades to Bedroom 1, Office Terrace, Dining Area, Living Terrace, WG 7 void (2 off), Bedroom Terrace Support on SS spigots as specified in METALWORKER above Provide SS continuous top rail as specified where required by AS 1288

Provide frameless glass gate to swimming pool fence 1200 high with bottom pivot fixing, self closing action and childproof catch

Allow approximately 50 gap between panels

Provide and fix frameless glass balustrade to timber stair between Ground and First Floors Support on SS spigots with re-used timber top rail

N 06 Glass Splashbacks

Provide and fix back painted glass splashbacks to Kitchen (1 off), Laundry (1 off) and Catering Kitchen (2 off) Glass to be toughened STARFIRE type, back painted to selected colour Provide colour sample for approval All edges rounded and polished Fix with mirror tape to walls and seal joint with bench tops with approved SIKA mastic

N 07 Sliding Cupboard Doors

Provide and fix obscure glass sliding doors to Catering Kitchen overhead cupboards Doors to be supported on clear anodised aluminium top and bottom rails, with roller bearing runners

N 08 Glass Cupboard Doors

Provide and fix frameless acid etched toughened glass doors to Pool Terrace Room overhead cupboards and to Spa Room vanity Hang on patch hinges Edges rounded and polished

N 09 Roof lights

Roof lights shall be equal to SKYDOME, manufactured by SKYDOME INDUSTRIES Ltd, Tel 9745 1522, sizes as set out below Surround shall be non-ventilated Base shall be manufactured from 316 stainless steel Glazing shall be XT HEATSTOP Pearlescent 4 5 thick double glazed <u>Sizes</u> to outside of concrete hob are as follows

SK1, SK2, SK3, SK4	1250 x 1250
SK8, SK9, SK10, SK11. SK12	900 x 900

Low profile barrel vaults as follows

SK6	approx 10m x 1 5m
SK7	approx 5 5m x 700

N 08 Cleaning Down

Clean down all glass on completion

O PAINTER

O 01 Materials

All paints shall be DULUX All clear polyurethane internal finishes to be WATTYL

Bring materials onto job in original containers with labels intact and seals intact and seals unbroken Mix and apply in accordance with manufacturer's instructions

Primers. undercoats. knotting, stopping and filling shall be as recommended by the manufacturer of the finishing coat

All finishing colours and tints shall be as selected by the Architects Allow for ceilings generally to be different colours from walls Some walls may have contrast colours from other walls

O 02 Application of Paint

Prepare ground and apply materials to form complete coverage uniform in texture, colour and opacity Cover to be to the satisfaction of the Architect Maintain adequate protection for surfaces and finishes

Apply materials only in weather and conditions suitable for the production of good results and only after adjacent finishes are complete and dry Allow adequate drying time between coats

O 03 Preparation

Do all necessary stopping after priming coats has been applied Rub down all surfaces to a smooth finish prior to the application of each successive coat of paint

O 04 Finishes

Refer SCHEDULE 3 for details

O 05 Extent of Work

Allow to paint all new and existing work internally and externally

O 06 Sample Panels

Allow to paint samples of paint colours 1 5m wide floor to ceiling for approval or change of colour before painting

P ELECTRICIAN

P 01 Generally

Provide electrical installation in accordance with AS1670 1 – 1995, AS/NZS4018 – 1997 and AS300 – 1991 Wiring Rules and the requirement of Energy Australia Arrange for the disconnection of the mains, the connection of new mains at the proper times Pay all charges in connection therewith Forward all notices, arrange all necessary inspections and tests, pay all fees and deposits associated with the works, supply and install all necessary fittings, materials and accessories whether individual specified herein or not

<u>P 02</u> Supply

Provide new supply from street pole all underground Provide all new wiring

Provide consumers mains of adequate capacity for the loading specified herein Provide and install switches and meter with controls clearly identified in neat lettering and circuits described in Schedule Mount same to requirements of Sydney Electricity with meter box in approved location and circuit board in Basement Electrical Room Provide external isolation switch to enable Supply Authority to turn off power supply without entering dwelling

Provide separate circuit for all refrigeration GPO's

Provide RCD's except to refrigerators

<u>P 03 Fittings</u>

Allow to connect the following fittings

Allow the PC Sum scheduled for supply of

Smoke detectors	4 off
Ovens	1 off
Steam Ovens	1 off
Warming Drawers	1 off
Microwave Ovens	3 off
Dishwashers	4 off
Fridge Drawers	3 off
Wine Cabinet	1 off
Refrigerators	3 off
Rangehoods	2 off
Electric Grill	1 off
Electric Deep Fryer	1 off
Gas Hobs (electric start)	2 off
Gas Wok Hob (electric start)	1 off

2 off
1 off
2 off
1 off
14 off
2 off
2 off
1 off
1 off
1 off
13 off
17 off
all floors
1 off
1 off
1 off
2 off
1 off
1 off
1 off
60 off
2 off
l off

P 04 Accessories

Provide selected colour flush rocker switches, selected colour flush power points, dimmers. ceiling roses. lamp holders and selected colour round flex Install switches at 1050 above floor and GPO's etc at 300 above floor unless otherwise indicated Confirm these layouts on site with Architect before commencing the work

Switches and GPOs to be HPM MS FLAT SERIES SS

P 05 Wiring

The wiring system shall be Smart Wiring to design and specification of CASTLE GROUP PTY LTD Wiring in slabs and masonry walls to be in conduits Wiring externally shall be run in high impact PVC buried minimum 300 below ground

P06 Lights

Allow the PC sum scheduled for the supply of light fittings Allow to connect internal and external lighting points with fittings and lamps as indicated

<u>P 07 _ Power</u>

Provide double and single general purpose outlets and special purpose outlets permanently wired as indicated

<u>P 08 Telephone</u>

Provide wiring to telephone points as indicated, terminated in telephone wall plugs Arrange for TELSTRA to connect to revised telephone system

Allow for No 4 separate phone lines

All as detailed by CASTLE GROUP PTY Ltd

P 09 Television

Allow to connect a television antenna and pay TV dish supplied and fixed by Owners

Allow to connect all cabling as detailed and specified by CASTLE GROUP PTY LTD

P 10 Subfloor Heating

Allow to connect power to subfloor heating in all rooms with tiled or carpet floors Provide heating cables in floor mortar beds or beneath carpet underlay equal to DEVI supplied by FLOOR HEAT AUSTRALIA PTY Ltd Provide and fit electronic thermostats to approved locations

P11 Air Conditioning

Allow to connect 3 phase power to No 17 air conditioning units supplied and fitted by TEMPGUARD AIR CONDITIONING PTY Ltd Allow the PC Sum scheduled for the supply and fitting of air conditioning units

<u>P 12 Security System</u>

Cooperate with CASTLE GROUP who will install back-to-base security and intercom system, connected to smoke alarms

P13 Vehicle Turntable

Allow to connect power to a vehicle turntable supplied by FLEETWOOD VEHICLE TURNTABLES PTY Ltd Allow the PC Sum scheduled for the supply and installation of the turntable

<u>P 14 Passenger Lift</u>

Allow to connect power to a DOMUSLIFT EASY LIVING HOME ELEVATORS PTY LTD Allow the PC Sum scheduled for the supply and installation of the lift

<u>P 15 Solar Panels</u>

Allow to connect power supply to 24V 210W MONO-CRYSTALLINE solar panels mounted on roof Allow to supply and fit No 57 panels on proprietary racking system as provided by TODAE PTY Ltd, Tel 1300 138 483. Contact LEE STONE (lee stone@todae com au) with a grid connect installation

<u>1</u> SCHEDULE OF FINISHES

External Finishes	
ROOF	Torch-on membrane
HOUSE WALLS	Sandstone Weatherboard stained Render painted
WALL BETWEEN DRIVE AND ENTRY PATH. WALL FACING STREET	Sandstone
WINDOWS	Aluminium anodized
FASCIAS	FC painted
BEDROOM TERRACE SOFFIT	Vıllaboard painted
LIVING TERRACE, DRIVEWAY TERRACE, BEDROOM TERRACE, POOL TERRACE, OFFICE TERRACE	Limestone
BALUSTRADES	Frameless glass SS rails
LIVING TERRACE PERGOLA	SS posts and beams Timber stained
DRIVEWAY	Concrete broom finish
DRIVEWAY AND PEDESTRIAN GATES	Weatherboards stained

Internal Finishes

BEDROOM 1	Floor	Carpet	
WALK-IN ROBES	Walls	Granosite painted	
DRESSING ROOM		Plasterboard painted	
RITA'S OFFICE	Ceiling	Plasterboard painted	
BEDROOM 2	_	Note Bedroom 1 ceiling	
BEDROOM 3		timber, veneer clear finish	
BEDROOM 4	Windows	Aluminium anodized	
BEDROOM 5	Door Jambs	Timber painted	

BEDROOM 6	Doors	Timber veneer
BEDROOM LOBBY		Clear finish
CLOAK ROOM		
ENTRY HALL	Floor	Limestone tiles
KITCHEN	Wall	Granosite painted
LIVING ROOM	Ceiling	Plasterboard painted
CATERING KITCHEN		Note Living Room ceiling
CORRIDOR		tımber. clear finish
HALL	Windows	Aluminium anodized
POOL TERRACE ROOM	Door Jambs	Timber painted
CELLAR	Doors	Timber veneer
		Clear finish
ENSUITE 1	Floor	Limestone tiles
ENSUITE 2		Limestone slabs
LAUNDRY	Walls	Limestone tiles
WC1		L1mestone slabs
ENSUITE 3	Ceilings	Plasterboard painted
ENSUITE 4	Doors	Timber veneer
ENSUITE 5		Clear finish
ENSUITE 6	Door Jambs	Timber painted
SPA ROOM	Windows	Aluminium anodized
BEACH STORE		
BEACH SHOWER ROOM		
WC2		
STAIRS – BASEMENT TO	Floor	Limestone slabs treads and
GROUND FLOOR		risers
	Walls	Granosite painted
		Plasterboard painted
	Ceilings	Plasterboard painted
	Soffits	Granosite painted
	Handraıls	Timber clear finish
ELECTRIC ROOM	Floor	Concrete painted
SERVICE ROOM	Walls	Render painted
	Ceiling	Concrete painted
	Doors	Timber painted
	Door jambs	Timber painted
	Window	Aluminium anodized

2 SCHEDULE OF PLUMBING FIXTURES AND COCKS

All fixtures and cocks to be **supplied by Builder** unless noted to be selected Note AQUA sinks are integrated Corian basins as constructed by SCF Interiors. Tel 9417 4144, Ref Kyla Steven

Fitting	Location	Type	<u>Cocks</u>
BATH	Ensuite 1	SPA IL BAGNO ALESSI ONE LAUFEN 241970	Floor mounted mixer To be selected
SHOWER	Ensuite 1	HANSGROHE RAINDANCE S150 with rail AKTIVA A8 UNICA A	Mixer BATHE METRIS S
SHOWER	Ensuite 1	Bush Rose	Mixer BATHE METRIS S
WC	Ensuite 1	VILLEROY & BOCH SUBWAY COMPACT WALL HUNG PAN Colour White In-wall cistern with GEBERIT SIGMA 50 push access plate	Control cock 1n c1stern
BASIN 2 off	Ensuite 1	Integrated CORIAN basins	VOLA mixer and spout to be selected, 2 off
SHOWER	Ensuite 2	HANSGROHE RAINDANCE S150 with rail AKTIVA A8 UNICA A	Mixer BATHE METRIS S
WC	Ensuite 2	VILLEROY & BOCH SUBWAY COMPACT WALL HUNG PAN Colour white In- wall cistern with GEBERIT SIGMA 50 push access plate	Control cock in cistern
BASIN	Ensuite 2	AQUA Sınk	VOLA mixer to be selected
SHOWER	Ensuite 3	HANSGROHE RAINDANCE S150 with rail AKTIVA A8 UNICA A	Mixer BATHE METRIS S
WC	Ensuite 3	VILLEROY & BOCH SUBWAY COMPACT WALL HUNG PAN Colour white In-	Control cock 1n c1stern

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		wall cistern with GEBERIT SIGMA 50 push access plate	
BASIN	Ensuite 3	AQUA Sınk	VOLA mixer to be selected
BASIN	WC1	OMVIVO GEO WASH PLANE	VOLA mixer to be selected
WC	WC1	VILLEROY & BOCH SUBWAY COMPACT WALL HUNG PAN Colour white In- wall cistern with GEBERIT SIGMA 50 push access plate	Control cock in cistern
SHOWER	Ensuite 4	HANSGROHE RAINDANCE S150 with rail AKTIVA A8 UNICA A	Mixer BATHE METRIS S
WC	Ensuite 4	AQUA Sınk	VOLA mixer to be selected
BASIN	WC1	OMVIVO GEO WASH PLANE	VOLA mixer to be selected
SHOWER	Ensuite 5	HANSGROHE RAINDANCE S150 with rail AKTIVA A8 UNICA A	Mixer BATHE METRIS S
BASIN	Ensuite 5	AQUA Sınk	VOLA mixer to be selected
WC	Ensuite 5	VILLEROY & BOCH SUBWAY COMPACT WALL HUNG PAN Colour white In- wall cistern with GEBERIT SIGMA 50 push access plate	Control cock in cistern
SHOWER	Ensuite 6	HANSGROHE RAINDANCE S150 with rail AKTIVA A8 UNICA A	Mixer BATHE METRIS S
BASIN	Ensuite 6	AQUA Sınk	VOLA mixer to be selected
WC	Ensuite 6	VILLEROY & BOCH SUBWAY COMPACT WALL HUNG PAN Colour white In- wall cistern with GEBERIT SIGMA 50 push access plate	Control cock in cistern

SHOWER (2 off)	BEACH SHOWER ROOM	HANSGROHE RAINDANCE S150 with rail AKTIVA A8 UNICA A	Mixer BATHE METRIS S
BASIN	BEACH SHOWER ROOM	AQUA Sınk	VOLA mixer to be selected
WC	BEACH SHOWER ROOM	VILLEROY & BOCH SUBWAY COMPACT WALL HUNG PAN Colour white In- wall cistern with GEBERIT SIGMA 50 push access plate	Control cock in cistern
BASIN	WC2	AQUA Sınk	VOLA mixer to be selected
WC	WC2	VILLEROY & BOCH SUBWAY COMPACT WALL HUNG PAN Colour white In- wall cistern with GEBERIT SIGMA 50 push access plate	Control cock in cistern
BEACH SHOWER	Pool Terrace	MONSOON Shower Rose SS	MONSOON mixer SS
SPA BATH	Spa Room	HOESCH SANTEE Drop in spa bath Colour white	Spout and mixer to be selected
BASIN	Spa Room	AQUA Sınk	VOLA mixer to be selected
WC	Spa Room	VILLEROY & BOCH SUBWAY COMPACT WALL HUNG PAN Colour white In- wall cistern with GEBERIT SIGMA 50 push access plate	Control cock in cistern
SINK (2 off)	Pool Terrace Room	OLIVERI PRO SERIES Code 113/OU and 116/OU	Selected spout and mixer (2 off)
ZIP HYDROTAP	Pool Terrace Room	ZIP HYDROTAP chilled under- bench unit	HYDROTAP system on font
DISHWASHER	Pool Terrace Room	MIELE Code G 2872 SCVI integrated	Hot and cold control cock
REFRIGERAT OR	Pool Terrace Room	FISHER & PAYKEL French Door Code RF610 ADUX	Cold control cock

SINK (2 off)	Kıtchen	OLIVERI PRO SERIES Code 113/OU and 116/OU	Selected spout and mixer (2 off)
ZIP HYDROTAP	Kıtchen	ZIP HYDROTAP chilled under- bench unit	HYDROTAP system on font
DISHWASHER	Kıtchen	MIELE Code G 2872 SCVI integrated	Hot and cold control cock
SINKS (2 off)	Catering Kitchen	SS integrated bowls	Selected spout and mixer (2 off)
DISHWASHER (2 off)	Catering Kitchen	MIELE Code G2872 SCVI integrated	Hot and cold control cock
SINK	Catering Kitchen	Round SS integrated bowls	Selected spout and mixer
COOKTOP HOBS (2 off)	Catering Kitchen	GAGGENAU VARIO gas hob Code VB 421-210AU	Gas fittings
WOK HOB	Catering Kitchen	GAGGENAU VARIO gas wok hob Code VG411-210AU	Gas fittings
REFRIGERAT OR	Catering Kitchen	MIELE by Owner	Cold control cock
STEAM OVEN	Catering Kitchen	GAGGENAU COMBI steam oven Code BS274-130	Cold control cock
ZIP HYDROTAP	Catering Kitchen	ZIP HYDROTAP boiling and chilled under bench single unit	HYDROTAP system No font
WASHING MACHINE	Laundry	MIELE HONEYCOMB CARE Code W4466WPS	
TUB	Laundry	CLARK single 70 litre SS FLUSHLINE	Mixer spout to be selected
ICE MACHINE	Laundry	FROSTLINE ice machine Code IM44/15	Cold control cock
HOT WATER HEATERS 2 off	Service Room	RHEEM heavy duty gas Code 621275 275 litre storage	Cold control cocks Gas fittings
WATER TANK PUMPS		ONGA pump and water switch with first flush diverter, de- sludging valve, action switch master automatic mains water	

diversion unit

GAS POINTS 2 off	Living Terrace Pool Terrace	BBQ's by Owner	Bayonet fittings
FIREPLACE	Bedroom 1	JETMASTER 850 Low Line Single Sided	Gas fittings
MAINS PRESSURE HOSE COCKS 6 off	Living Terrace Bedroom Terrace Pool Terrace Yard - 3 selected locations	Mounted on walls 600 high	Threaded brass hose cocks
STORMWATER HOSE COCKS 4 off	Near Pool Outside Garage Yard – 2 selected locations	Mounted on walls 600 high	Threaded brass hose cocks

3 SCHEDULE OF PAINT FINISHES

All paints Dulux U N O

External Painting	
Cement Render	1 coat acrylic primer 2 coats Weathershield low sheen acrylic
Metalwoik	1 coat etching primer 1 coat undercoat 1 coat full gloss enamel
Tımber	1 coat acrylic primer 2 coats Weathershield gloss acrylic
Timber Stained	3 coats SIKKENS clear and tinted
Internal Painting	
Plasterboard	1 coat Acrylic sealer 2 coats Wash and Wear low sheen acrylic
Vıllaboard Cement Render	1 coat Acrylic sealer 2 coats Weathershield low sheen acrylic
Set Plaster	1 coat sealer 2 coats Weathershield low sheen acrylic Wash-and-Wear
Timber painted	1 coat primer 1 coat undercoat 1 coat full gloss enamel
Timber flooring	3 coats SYNTEKO CLASSIC 50 satun clear finish
Timber clear finish	3 coats satin Instant Estapol

4	SCHEDULE OF MONETARY SUMS

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Spec Ref	Item	S (Supply) F (F1x)	Allowance
G 17 G	Door Hardware	S	\$ 10,000
P 03	Electrical fittings Oven Steam oven Warming Drawer Microwave Ovens Dishwashers Fridge Drawers Wine Cabinet Refrigerators Rangehoods Electric Grill Electric Deep Fryer Gas Hob Gas Wok Hob Induction Cooktops Teppan Yaki Grill Clothes Washing Machine Clothes Dryer Drying Cabinet Ice Machine Garbage Compactor Driveway gate motors	S	\$ 120,000
P 03	Air Conditioners	S&F	\$ 100,000
P 03	Turntable	S&F	\$ 20,000
P 03	Passenger Lift	S&F	\$ 70.000
P 06	Lights	S	\$ 70,000
G	Cellar Fit Out	S&F	\$ 20,000