

MR MICHEAL MORAN & MS BERNADETTE FOY

LOT 96, H/No.12 PHILLIP AVE, SEAFORTH

CUSTOM DESIGN, 'LUXE + PLATINUM' INCLUSIONS

MAJESTIC FACADE DOUBLE GARAGE

This is the plan/spec, referred to in
Fitzgerald Certifiers Certificate
Cert, No. 2010.

RAWSON HOMES

UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 FAX 02 9764 6992 Builder's Licence No.33493G



CLIENT:
MR MICHAEL MORAN & MS BERNADETTE FOY
SITE ADDRESS:
LOT 96, H/No.12
PHILLP AVE,
SEAFORTH

HOUSETYPE:

MOOEL: CUSTOM DESIGN
FACADE: MAJESTIC
TYPE: 4 BEDROOM
SPECIFICATION: 'LUXE + PLATINUM'
DRAWING TILLE

COVER SHEET

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NOTES:

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* DD NOT SCALE - USE WRITTEN DIMENSIONS

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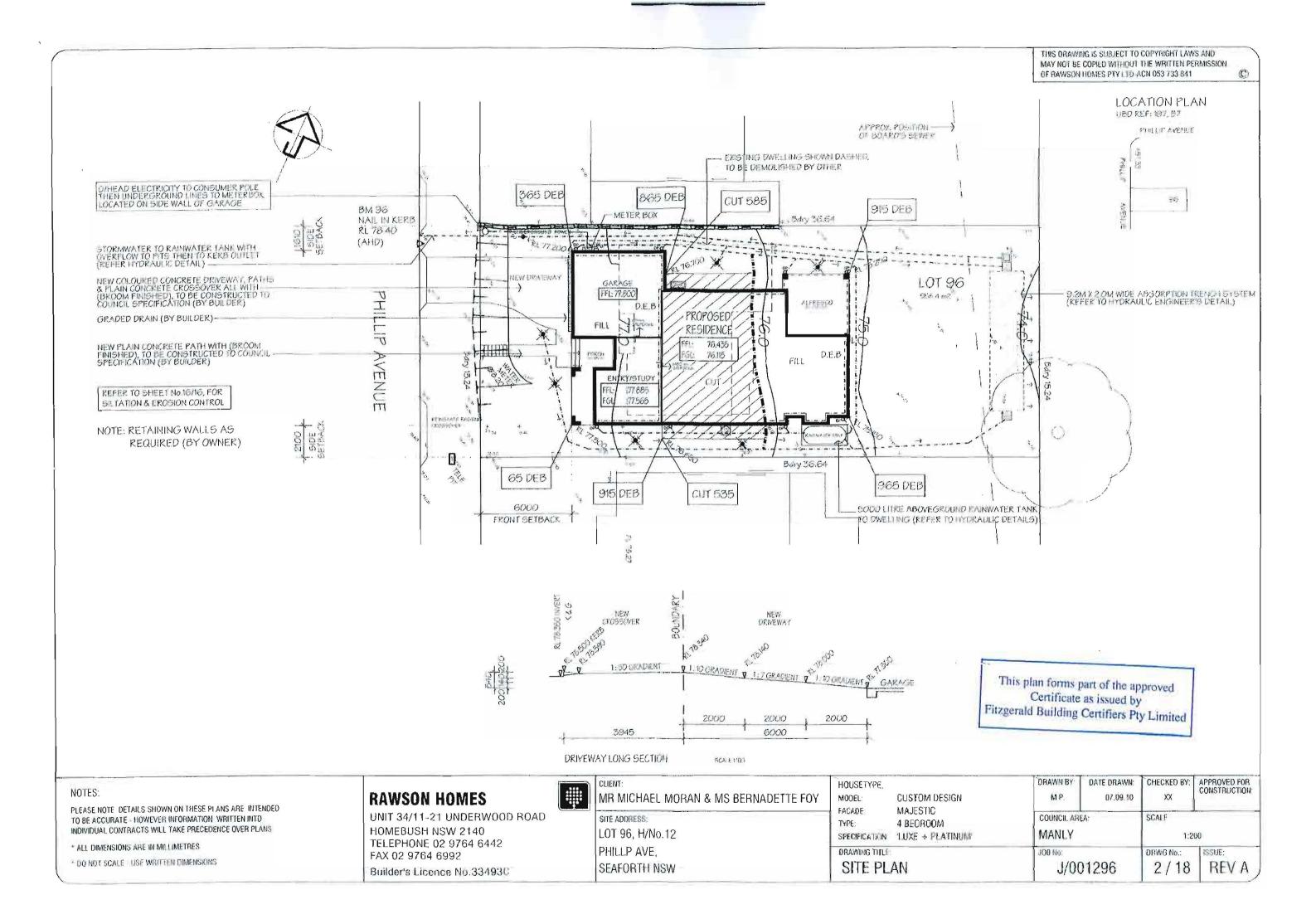
SCHEDULE OF DRAWINGS:

DRAWING TITLE: COVER SHEET SITE PLAN GROUND FLOOR PLAN FIRST FLOOR PLAN FRONT & SIDE ELEVATIONS **REAR & SIDE ELEVATIONS** SECTIONS **ELECTRICAL LAYOUT PLAN** CONCRETE SLAB PLAN 10 KITCHEN & WET AREA DETAILS CONSTRUCTION DETAILS 11-16 BASIX / ABSA INFO 17 CON. SITE MANAGEMENT PLAN

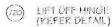
ISSUE:	AMENDMENT DESCRIPTION	DRAWN:	DATE
REV A	CONSTRUCTION DRAWINGS. 1ST PLAN	M.P.	07.04 10
		-	

CONSTRUCTION ISSUE

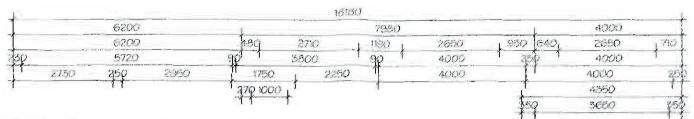
SIGNATUR	}E:		
ORAWN BY: M.P.	OATE DRAWN: 07.09.10	CHECKED BY:	APPROVED FOR CONSTRUCTION
COUNCIL ARE	A:	SCALE N/A	
J08 No: J/0(1296	1 / 18	REV A







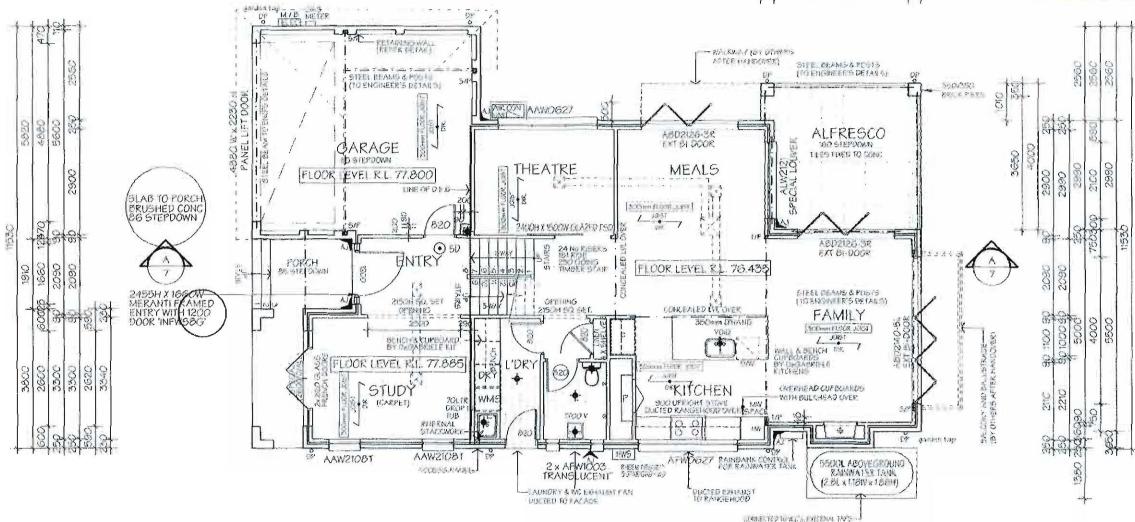
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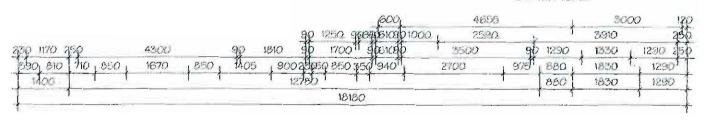
Fitzgerald Building Certifiers Pty Limited



FRAME MAKER'S NOTE

- WIND CLASSIFICATION: N2
- WINDOW OPENING SIZES TO BE CHECKED BEFORE FRAMES ARE CONSTRUCTED
- FRAMES AND TRUSGES TO SATISFY AS 1684 SAA TIMBER FRAMING CODE





AREA: GROUND FLOOR LIVING : 120.38m² FIRST FLOOR LIVING : 139.35m2 GARAGE 34.37m2 FRONT PORCH : 10.53m² ALFRESCO : 16.35m² FRONT DECK : 4.46m² REAR BALCONY : 16.35m² TOTAL : 342.59m3

(CARPES)

NOTES:

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RAWSON HOMES

UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 FAX 02 9764 6992

Builder's Licence No.33493C

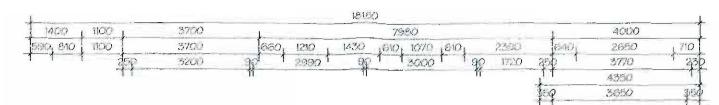


200	MR MICHAEL MORAN & MS BERNADETTE FOY
J	SITE ADDRESS: LOT 96, H/No.12
	PHILLP AVE,
	SEAFORTH NSW

HOUSETYPE: MODEL: CUSTOM DESIGN	DRAWN BY: M.P.	DATE DRAWN: 07.09 10	CONSTRUC		
Fagade: Type: Specification;	MAJESTIC 4 BEDROOM 'LUXE + PLATINUM'	COUNCIL ARE	A:	SCALE:	00
DRAWING TITLE: GROUNI	D FLOOR PLAN	JOB NO	1296	3 / 18	REV A



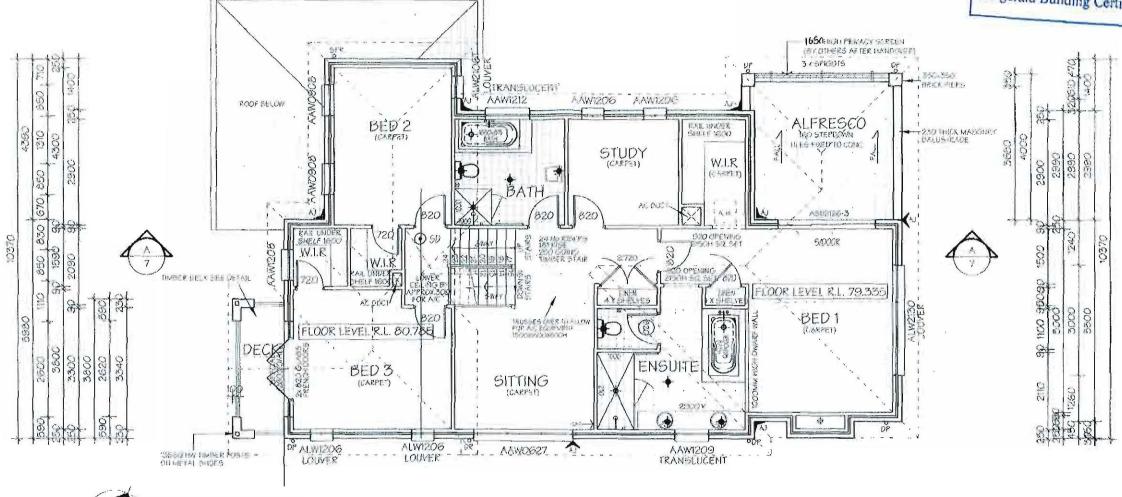




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ARFA	
GROUND FLOOR LIYING	: 120.38m²
FIRST FLOOR LIVING	: 139.350
CARAGE	$: 34.97 m^2$
FRONT POSCH	: 10.53m²
ALFRESCO	: 16.35 m2
FRONT DECK	: 4.46m²
REAR BALCONY	:16.35m²
TOTAL	:342.39m²

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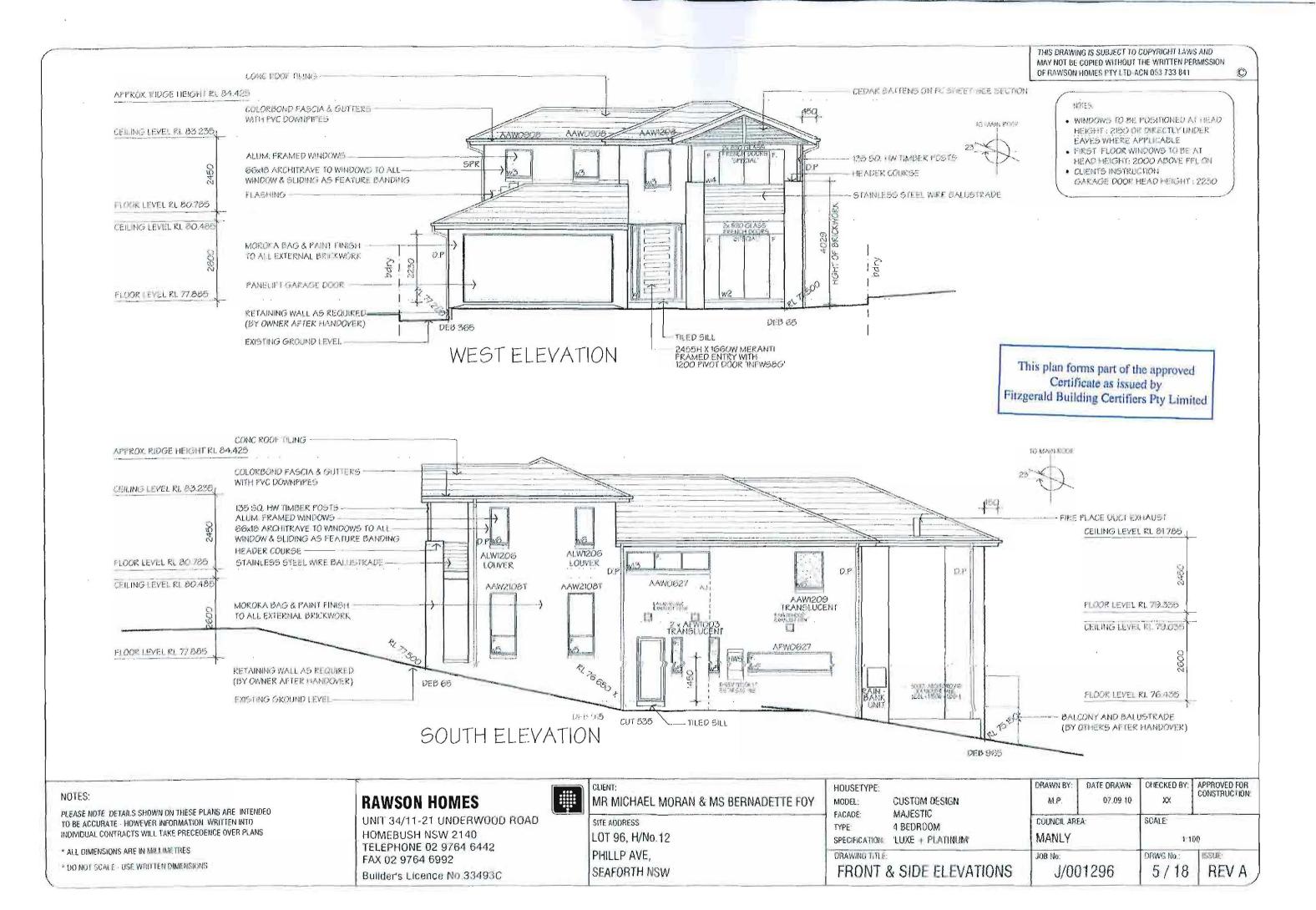
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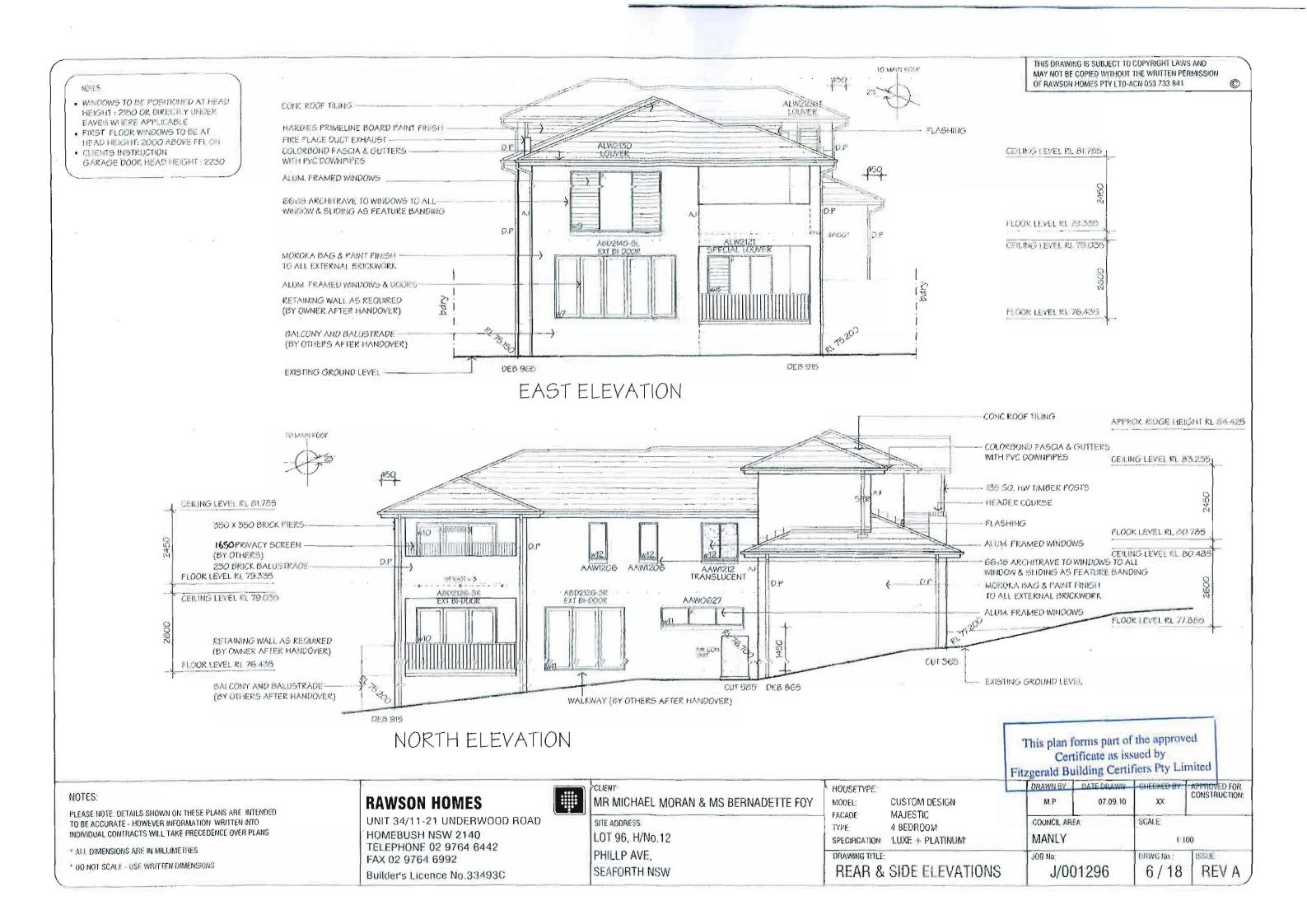
UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 FAX 02 9764 6992 Builder's Licence No.33493C

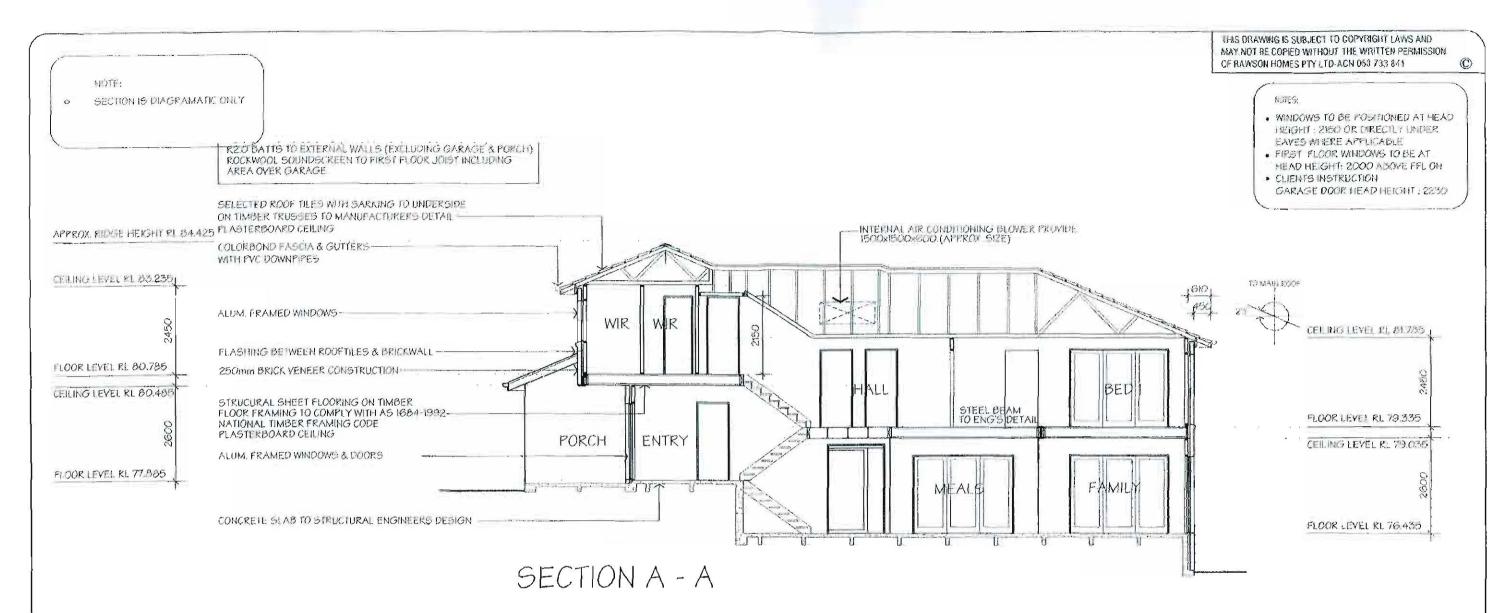


Ì	MR MICHAEL MORAN & MS B	ERNADETTE FOY
1	SITE ADDRESS:	
	LOT 96, H/No.12	
	PHILLP AVE,	
	SEAFORTH NSW	
_,		

HOUSETYPE: MODEL: CUSTOM DESIGN	DRAWN BY M.P.	DATE DRAWN- 07.09.10	CHECKED BY	APPROVED FOR CONSTRUCTION:	
FACADE: TYPE: SPECIFICATION:	MAJESTIC 4 BEDROOM 'LUXE + PLATINUM'	COUNCIE ARI		SCALE:	00
DRAWING TITLE	LOOR PLAN	J08 No: J/0(1296	ORWG No. 4 / 18	REV A







BUSHFIRE BAL 12.5

BUSHFIRE REQUIREMENTS

- · CONSTRUCTION TO COMPLY WITH A53959-2009.
- ALUMNIUM MESH FLYSCREENS WITH A MAX. APERTURE SIZE OF LORM TO ALL OPENING WINDOWS, HINGED DOORS & SUDING DOORS.
- WEEPA SPARK ARRESTORS TO WEEP HOLES
- SARKING TO UNDERSIDE OF METAL ROOF
- METAL GUITER AND VALLEY GUARD
- WEATHER STRIPS TO EXTERNAL DOORS
- ALL GLAZING TO SCIDING DOORS OR EXTERNAL HINGED DOORS TO
- BE A MIN SMM TOUGHENED GLASS
- · ALL TIMBER DOOR FRAME SHALL BE MADE FROM BUSHFIRE REGISTING TIMBER
- GARAGE DOURG SHALL BE FILTED WITH SUITABLE WEATHER STRIPS, DRAUGHT EXCLUDERS/SEALS WITH A MAXIMUM GAP NO GREATER THAN 3 MM

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UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 FAX 02 9764 6992

Builder's Licence No.334930



CLIENT,

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LOT 96, H/No.12
PHILLP AVE,
SEAFORTH NSW

HOUSETYPE: MODEL: CUSTOM DESIGN	DRAVIN BY. M.P.	DATE DRAWN: 87.09 18	CHECKED BY.	APPROVED FOR CONSTRUCTION:
FACADE MAJESTIC TYPE: 4 BEDROOM SPECIFICATION: 'LUXE + PLATINUM'	COUNCIL ARI	EA:	SCALE 1:1	00
SECTION	JOB No. J/0(01296	7 / 18	REV A

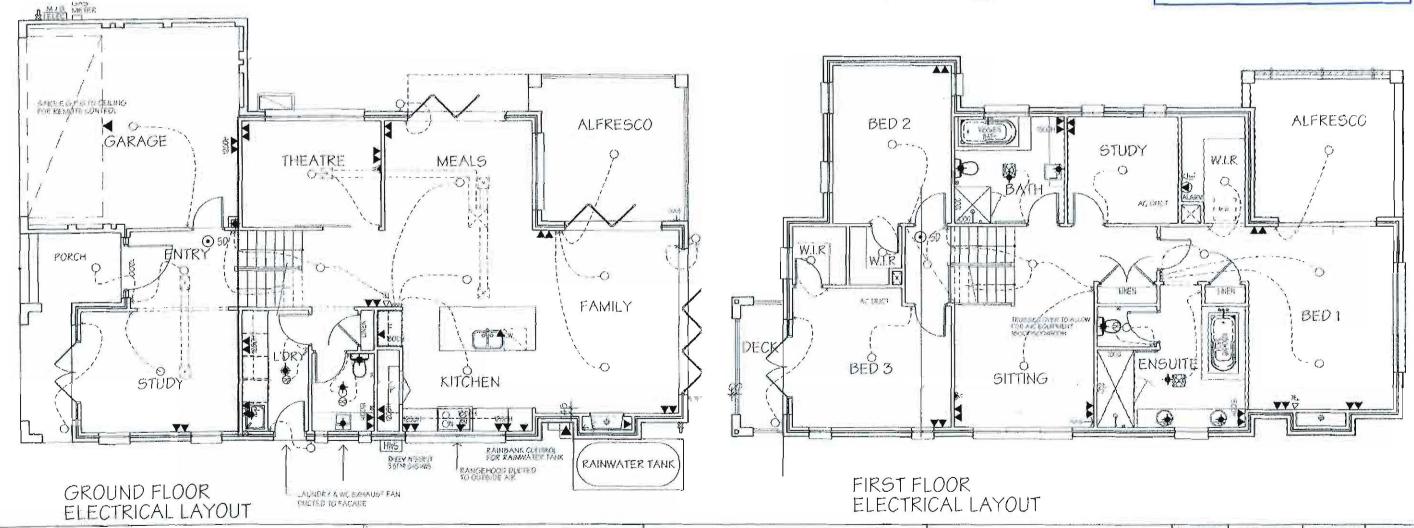
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14() LE

GPO'S IN WET AREAS TO SE POSITIONED 1500mm HIGH

ELECT	RICAL LEGEN	D			
t II	FLUCRESCENT TUBE	€.	GAS FOINT	8	EXHAUST FAN
0	CEILING LIGHT POINT	D ≥	TELEVISION POINT		TELEPHONE POINT
(C)	WALE LIGHT POINT	ø	PERMANENT POWER	10/0s	DENOTES HEIGHT OF POINT ABOVE FLOOK LEVEL
٠	DOWN LIGHT FOINT	×	LIGHT SWITCH	Ow	EXTERNAL SENSOR LIGHT
4	SINGLE GPO 300 HIGH UNO	O Sh	SMORE DETECTOR	٥	ADJUSTABLE DOWNLIGHT
1	DOUBLE GPO 300 HIGH UNO	8	IXI. LIGHT/HEATER/FAN		
	EXTERIOR SINGLE GPO	(X	ACOUTLET & AIR DIRECTION		

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RAWSON HOMES

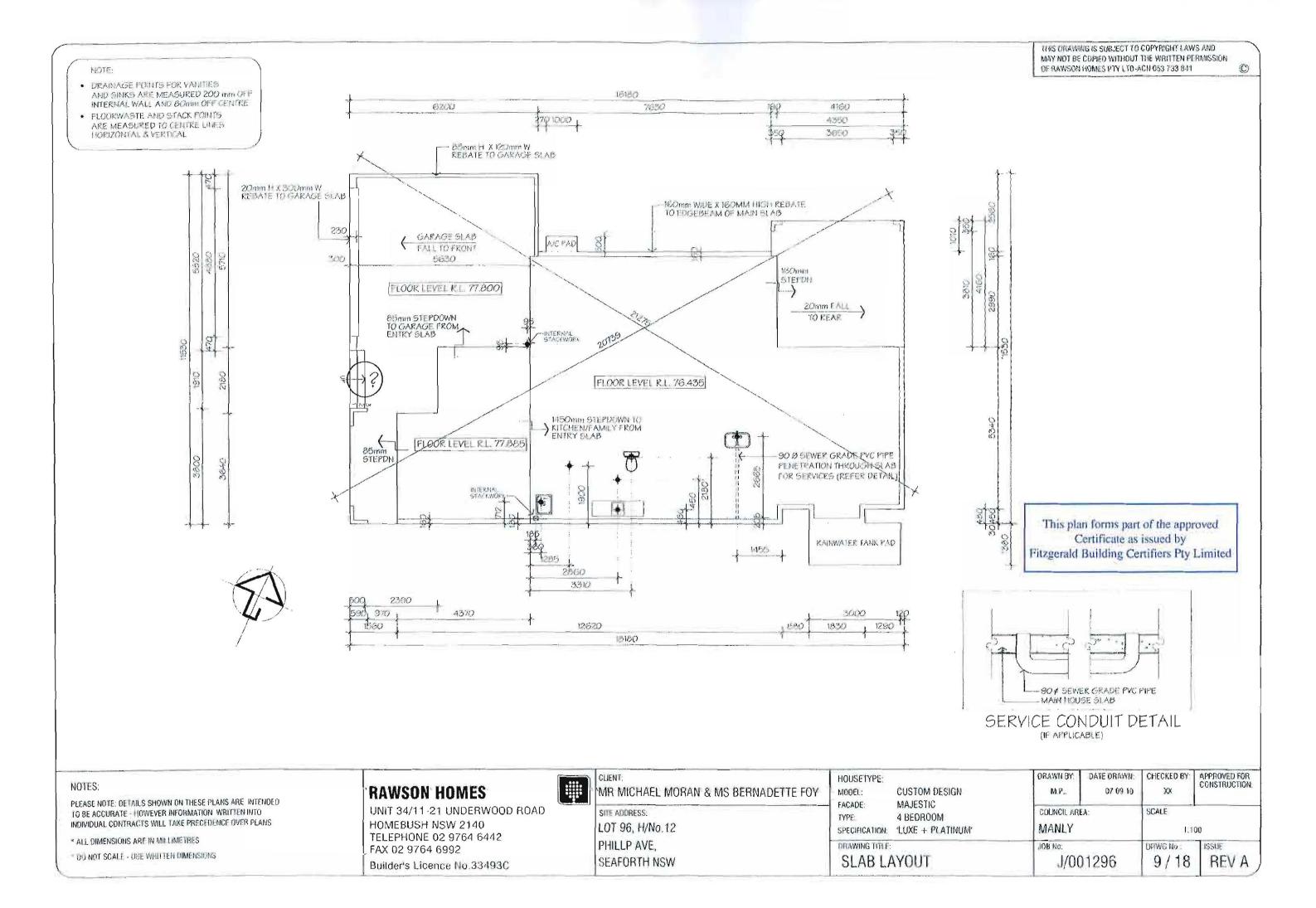
UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 FAX 02 9764 6992

Builder's Licence No.33493C

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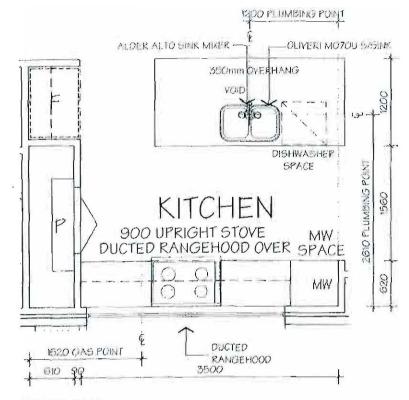
MR MICHAEL MORAN & MS BERNADETTE FOY	
 SITE ADDRESS:	4
LOT 96, H/No.12	
PHILLP AVE,	Ī
SEAFORTH NSW	1

HOUSETYPE: MODEL: CUSTOM DESIGN FACADE: MAJESTIC TYPE: 4 BEDROOM SPECIFICATION: LUXE + PLATINUM' ORAWING TITLE: ELECTRICAL PLAN		DRAWN BY. DATE DRAWN: M.P. D7 09.10 COUNCIL AREA: MANLY		CHECKED BY: APPROVED FO CONSTRUCTION	
				SCALE: 1 100	
		J/06	1296	DRWG No.: 8 / 18	REV A



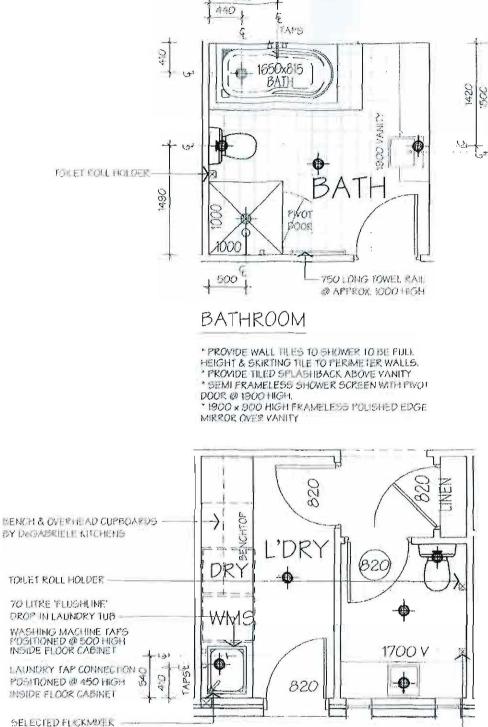


 90MM COVE CORNICE TO BATH & ENSUITE
 NOMINATED HEIGHTS FOR FIXTURES ARE AN APPROXIMATION ONLY.



KITCHEN

- * REFER TO DEGABRIELE KITCHEN PLANS FOR FULL DETAIL & SPECIFICATION.
- * RAW CRAPTWOOD BULKHEADS (SQUARE SET TO CEILING) SUPPLIED & INSTALLED BY DAGABRIELE KITCHENS WITH PAINT FINISH BY BULDER.
- PROVIDE GLASS SPLASHBACK TO 700 HIGH ABOVE KITCHEN BENCH.
 PLUMBING CENTRE LINES DRAWN IN ACCORDANCE WITH DESABRIELE DETAILS.
- NOTE: FLOORING TO BE LAID PRIOR TO INSTALLATION OF CABINETRY.

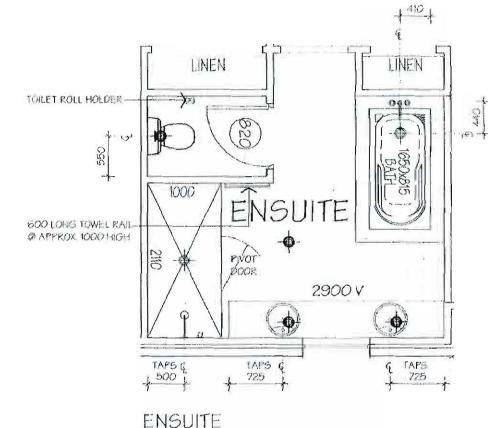


LAUNDRY/WC

* PROVIDE SKIRTING TILE TO PERIMETER WALLS
* TILED SPLASHBACK OVER LAUNDRY TUB &
BENCH @ 300 HIGH
* 1700 × 900 HIGH FRAMELESS POLISHED EDGE
MIRROR OVER VAULTY.

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(C)



- " PROYIDE WALL TICES TO SHOWER TO BE FLILL HEIGHT
- SKIRTING THE TO PERIMETER WALLS.
- * PROVIDE TILED SPLASHBACK ABOVE VANITY
 * PRAMELESS SHOWER SCREEN WITH PIVOT DOOR # 1900
- HIGH.
- * 2 x 22 x 3000 HIGH FRAMELEGS POLISHED EQGE MIRROR OVER VANITY.

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UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 FAX 02 9764 6992

TO LAUNDRY TUB

Builder's Licence No.334930



ì	CLIENT:
	CUENT: MR MICHAEL MORAN & MS BERNADETTE FOY
IJ	

HOWEL RING @ APPROX, 1000 HIGH

SITE ADDRESS: LOT 96, H/No.12 PHILLP AVE, SEAFORTH NSW

HOUSETYPE:

E: CUSTOM DESIGN MAJESTIC

FACADE: MAJESTIC

TYPE: 4 BEDROOM

SPECIFICATION: 'LUXE + PLATINUM'

DRAWING TITLE:

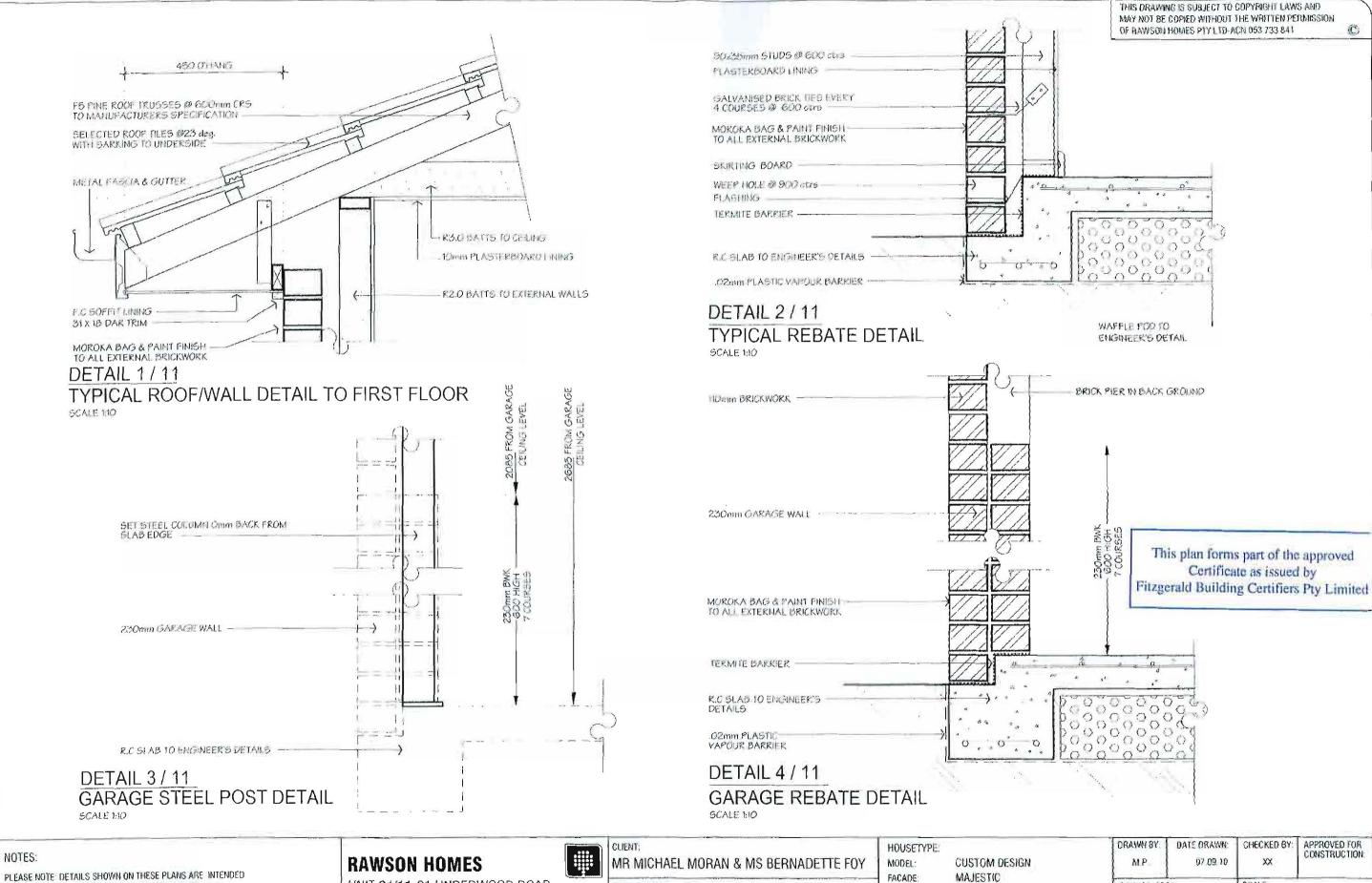
KITCHEN/WET AREA DETAILS

DRAWN BY:	DATE DRAWN:	CHECKED BY:	APPROVED FOR CONSTRUCTION:
M.P.,	07.09.10	XX	CONTROCTION.
COUNCIL ARI	EA:	SCALE:	
MANLY		1.5	0

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TO BE ACCURATE - HOWEVER INFORMATION WRITTEN INTO INDIVIDUAL CONTRACTS WILL TAKE PRECEDENCE OVER PLANS

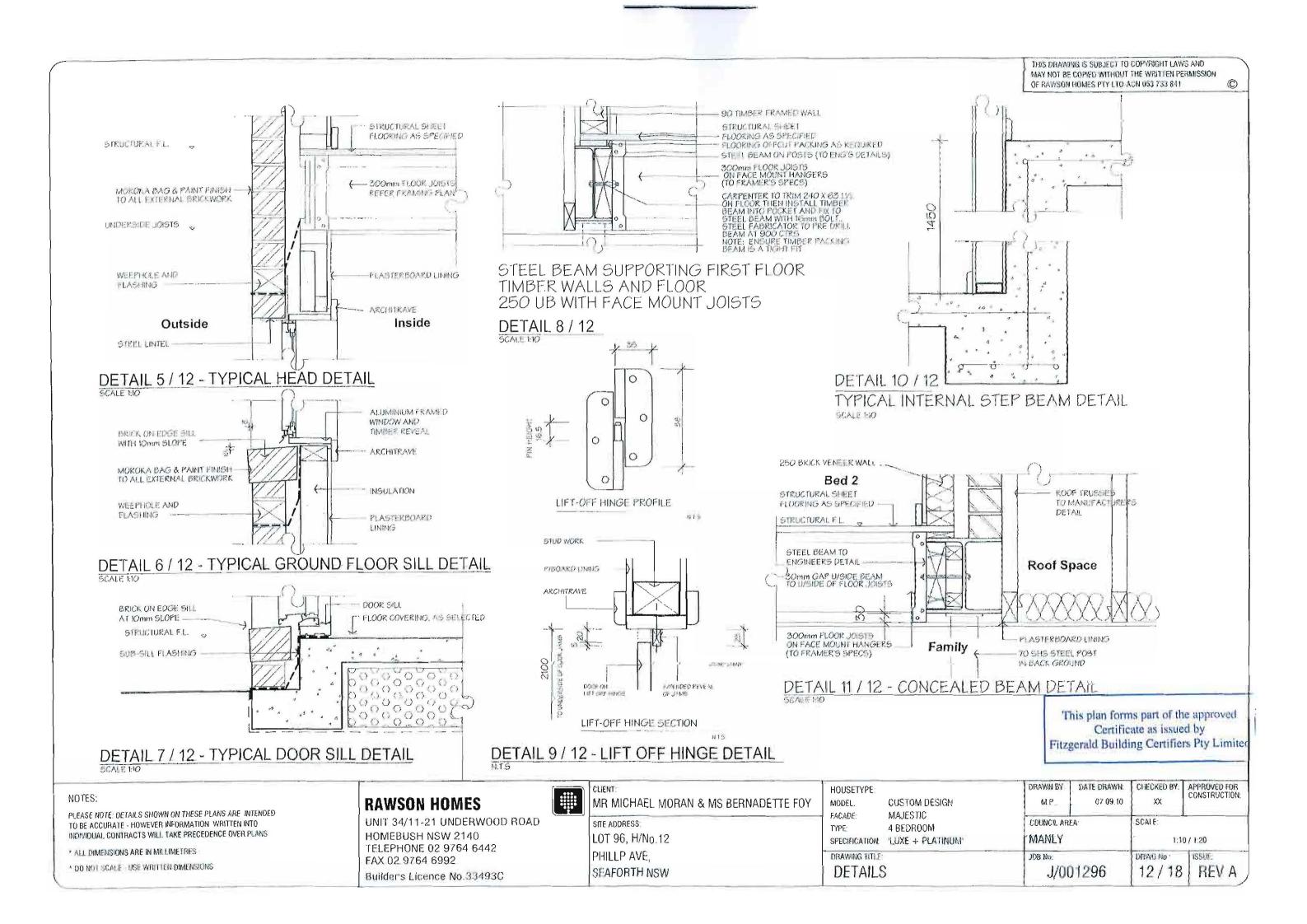
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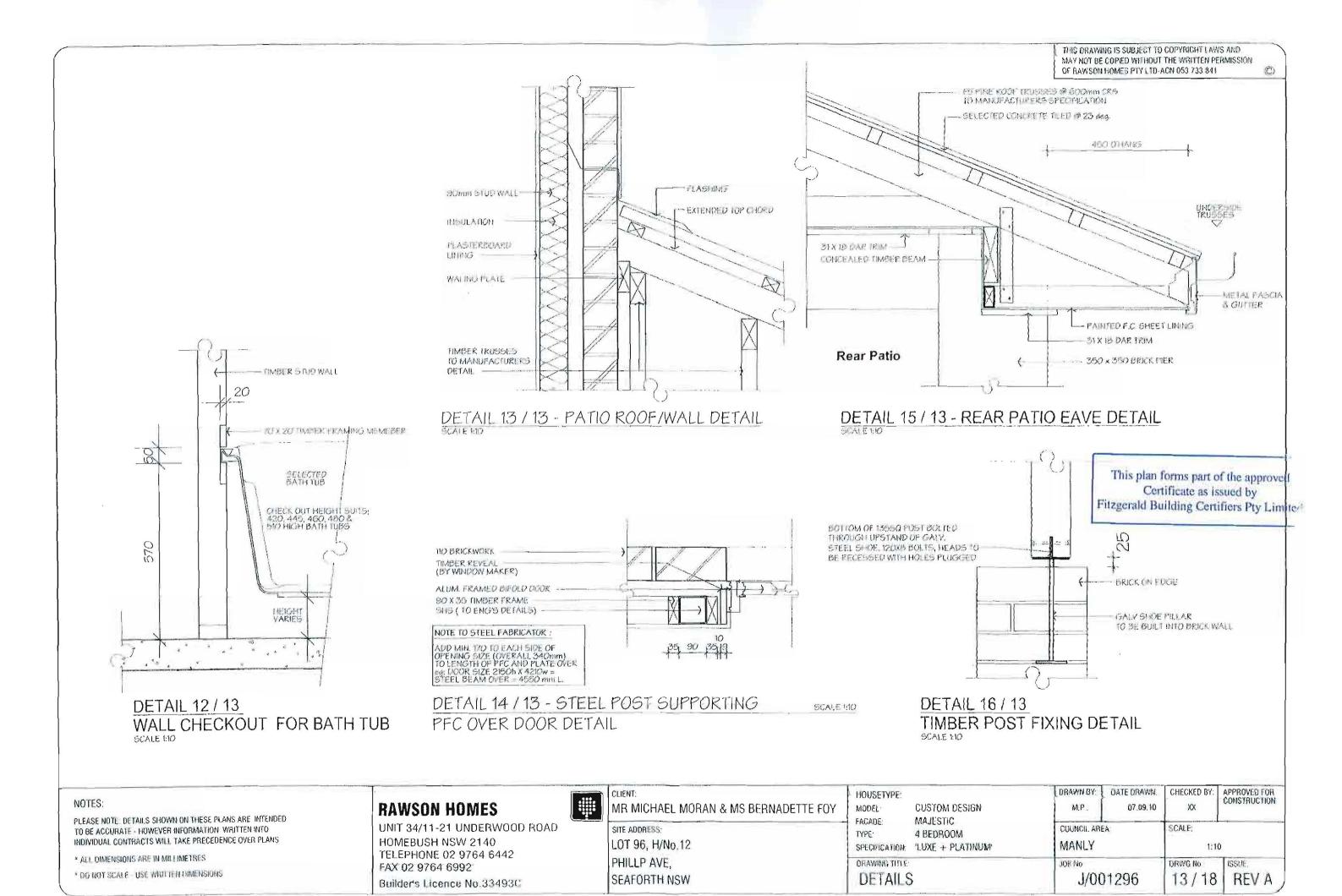
UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442 FAX 02 9764 6992

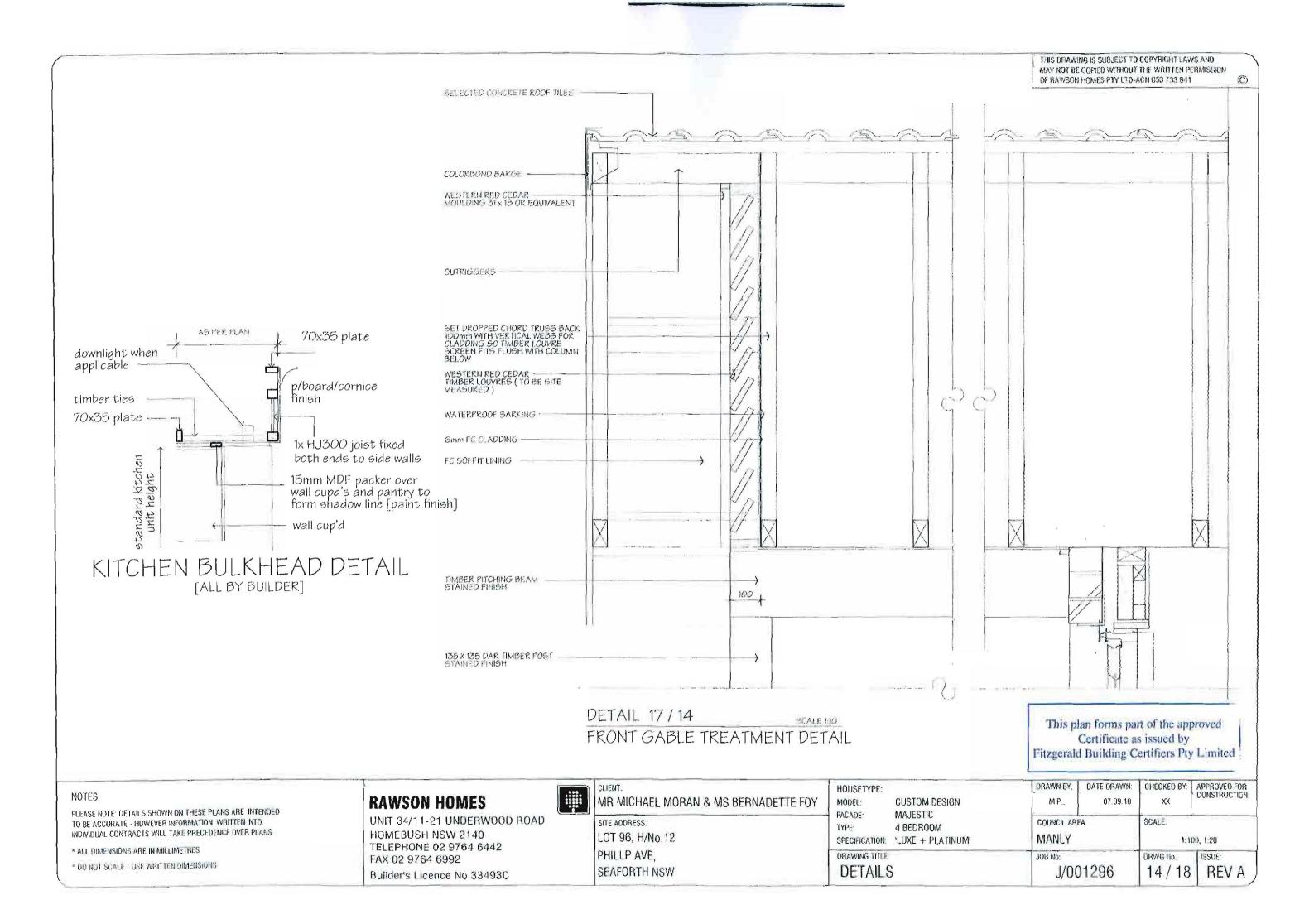
Builder's Licence No.33493C



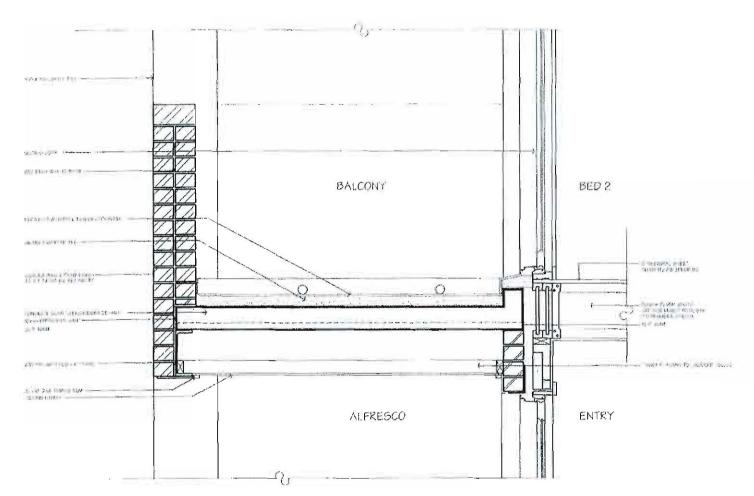
CLIENT: MR MICHAEL MORAN & MS BERNADETTE FOY	HOUSETYPE: MODEL:	CUSTOM DESIGN	DRAWN BY:	DATE ORAWN: 07.09.10	CHECKED BY:	APPROVED FOR CONSTRUCTION:
SITE ADDRESS: LOT 96, H/No.12	FACADE: FYPE: SPECIFICATION:	Majestic 4 Bedroom "Luxe + Platinum"	COUNCIL ARI	A:	SCALE:)
PHILLP AVE, SEAFORTH NSW	DETAILS		JOB No: J/0(1296	DRWG No.	REV A



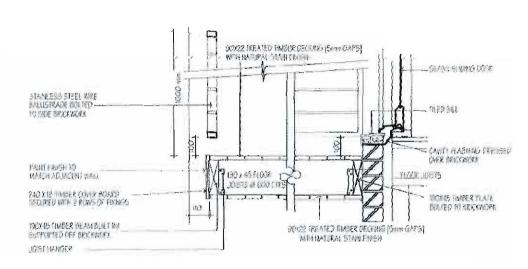








DETAIL 18 / 15
BALCONY - PORCH AND ENTRY



DETAIL 19 / 15 OPEN TIMBER DECK DETAIL

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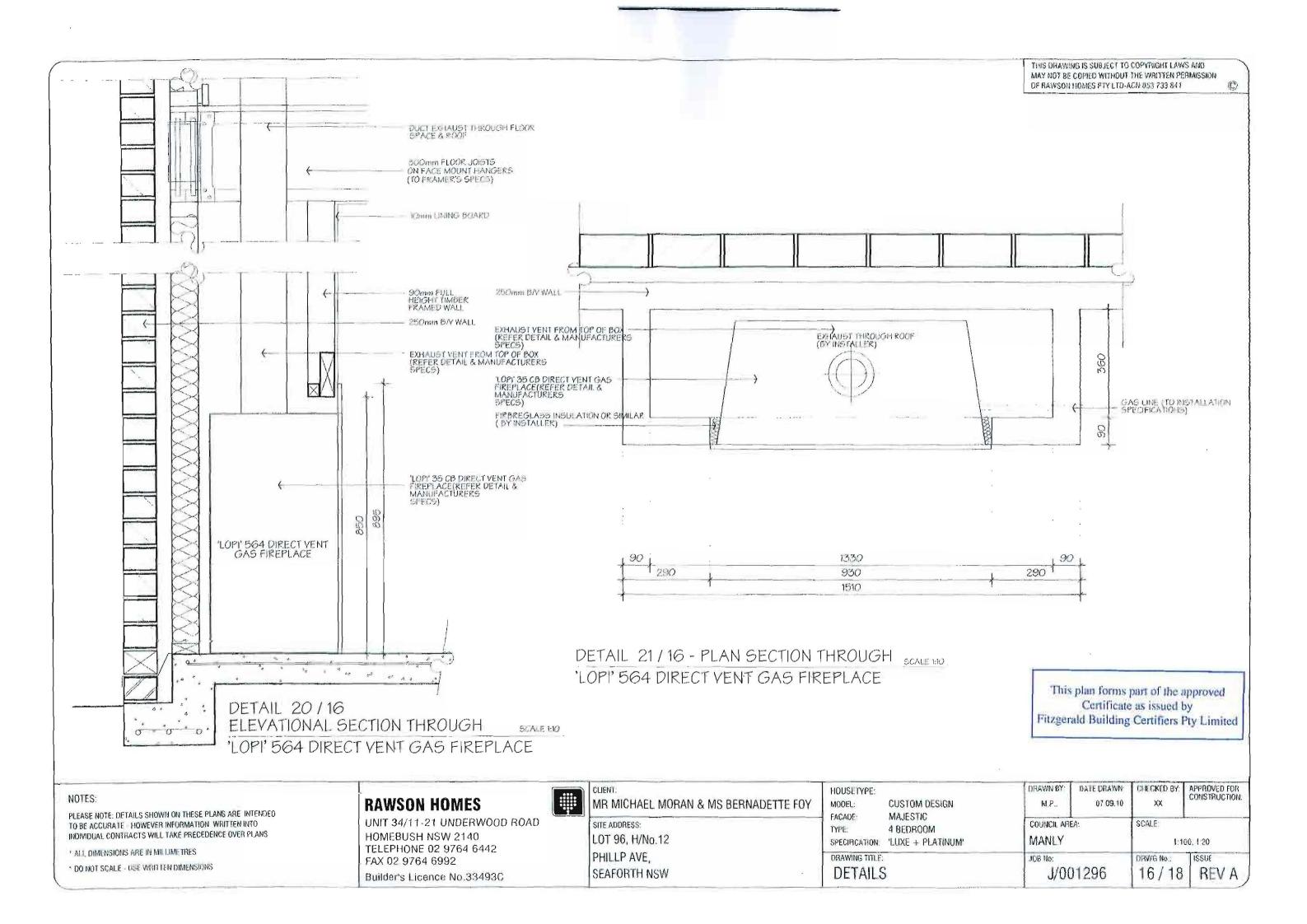
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Builder's Licence No.33493C



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SITE ADDRESS:	-
LOT 96, H/No.12	
PHILLP AVE,	
SEAFORTH NSW	

HOUSETYPE.	DEL: CUSTOM DESIGN ADE: MAJESTIC E 4 BEDROOM CIRCATION: 'LUXE + PLATINUM'	DRAWN BY:	DATE DRAWN: 07.09.10	CHECKED BY	APPROVED FOR CONSTRUCTION
FACADE: TYPE SPECIFICATION	4 BEDROOM	COUNCIL ARI	EA:	SCALE 1:10	00, 1:20
DRAWING THE DETAIL		JOB 40.)1296	0RWG No. 15 / 18	REV A



BASIX - Pro	ject details
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<u> </u>	F		ject details		
Site area	558	m²	ENERGY COMMITMENTS		
Conditioned floor area	233	m²	Continue and the second		
Unconditioned floor area	36	m²	HOT WATER		
Roof area	206	m²	Gas Instantaneous Hot Water System - performance ra	ating of 5 stars.	
Number of bedrooms	3				
Total area of vegetation (garden & lawr		m²	COOLING SYSTEM		
	ABSA Cert. No:	n/a	Single phase a/c system in at least 1 living area with er	/	
Cooling load (MJ/m2.year)	n/a	MJ/m2/pa	Single phase a/c system in at least 1 bedrooms with e		
Heating load (MJ/m2.year) n/a MJ/m2/pa The cooling system must provide for day/night zoning between living areas & bedrooms			petween living areas & bedrooms		
VATER COMMITMENTS			HEATING SYSTEM		
FIXTURES	0.00	***	Single phase a/c system in at least 1 living area with er	nergy rating: 3 star	
Showers head are 3 star rated	-		Single phase a/c system in at least 1 bedrooms with e	T	
Toliets have a 3 star rated flushing system			The heating system must provide for day/night zoning to		
Taps in the kitchen and laundry and bathrooms are 3 star rated					
			VENTILATION		
ALTERNATIVE WATER			Bathroom - individual fan, ducted to facade or roof; manual switch on / off		
Rainwater tank has a capacity of @ least 3,000 litres			Kitchen - individual fan, ducted to facade; manual switch on / off		
Rainwater tank to collect min. 140sq m	etres of rain run	off from roof area	Laundry - individual fan, ducted to facade; manual switch on / off		
Rainwater tank connected to all toilets					
Rainwater connected to the cold water	tap of the clothe	es washer	NATURAL LIGHTING		
Rainwater connected to at least one ou	itdoor tap		Windows in 3 x bathrooms / toilet for natural lighting		
SWIMMING POOL / OUTDOOR S	SPA		ARTIFICIAL LIGHTING		
not applicable to this project			Artificial lighting to 2 x bedrooms / kitchen, laundry, all hallways & Bathroom (dedicated)		
			Artificial lighting to 3 x living / dining room		
THERMAL COMFORT	COMMIT	MENTS	OTUED		
FLOOR, WALLS CEILING/ROOF			OTHER Gas Cooktop		
			Electric Oven	This plan forms part of the approve	
Floor - concrete slab on ground External wall - Brick Veneer - Bradford R2.0 rated insulation batts Ceiling & Roof - Bradford R3.0 rated insulation batts - sarking		Fixed outdoor clothes drying line	Certificate as issued by		
		Fixed indoor crothes drying line	Fitzgerald Building Certifiers Pty Lin		
Unventilated; Medium (solar absorptan		Zarking	1 ixed indeed of sheltered dothes drying line		
Chrominated, median (obiai abborpain	00)		LANDSCAPE		
WINDOWS, GLAZED DOORS AN	VD SKYLIGHT	rs	The applicant must plant indigenous or low water use p	planting throughout 50m2	
W1-W6 & W8 - W13 - Windows & Door				Siderally directly for come	
W7 - Windows & Doors - Improved Alu		· · · · · · · · · · · · · · · · · · ·			

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Throathar analy to windows & door

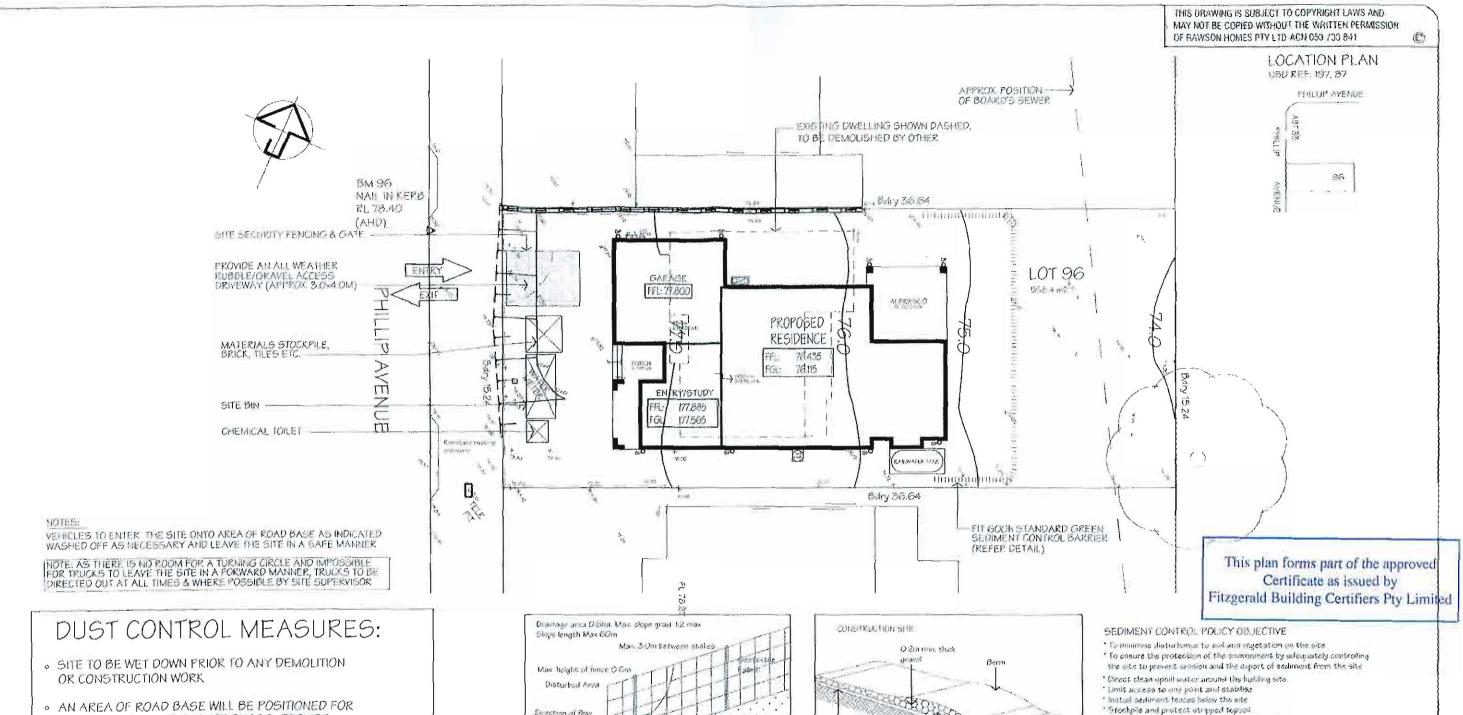
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SITE ADDRESS: LOT 96, H/No.12	FACADE: TYPE: SPECIFICATION:	4 BEDROOM 'LUXE + PLATINUM'	COUNCIL ARE MANLY	A	SCALE.	
PHILLP AVE, SEAFORTH NSW	DRAWING TITLE: BASIX /	ABSA INFO	J/00	1296	DRWG No.: 17/18	REV A



HEAVY VEHICLES TO REDUCE DUST & PROVIDE AN AREA TO WASH TRUCKS OFF (IF REQUIRED)

NOISE & VIBRATION MEASURES

- · ALL EXCAVATION WILL BE CARRIED OUT BETWEEN THE TIME STIPULATED IN THE COUNCIL CONDITIONS.
- . MACHINERY SIZE WILL BE KEPT TO A MINIMUM REQUIREMENT FOR THE JOB.

osto driván Min *UndEnfunded Area SEDIMENT FENCE

50 · 75m Kunoff from pad directed to sediment trap *TEMPORARY CONSTRUCTION EXIT*

- * Store materials within the sediment tenne immelope
- ' frevide a protected epahout area
- Connect stopowator Jefore roof a land
- ' Maintain compole *Respresd topsoft and stabilies site
- FOR LOCATION OF SEDIMENT CONTROL REFER TO SHE PLAN EXACT LOCATION TO BE DETERMINED ON SITE

HOURS OF OPERATION: - 7 AM - 5 PM, MONDAY TO FRIDAY. ONLY

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HOUSETYPE: MODEL: FACADE:

CUSTOM DESIGN MAJESTIC 4 BEDROOM

TYPE: SPECIFICATION 'LUXE + PLATINUM'

DRAWING TITLE:

CON.SITE MANAGEMENT PLAN J/001296

07.09.10 XX COUNCIL AREA SCALE: 1:200

DATE DRAWN:

MANLY

DRAWN BY:

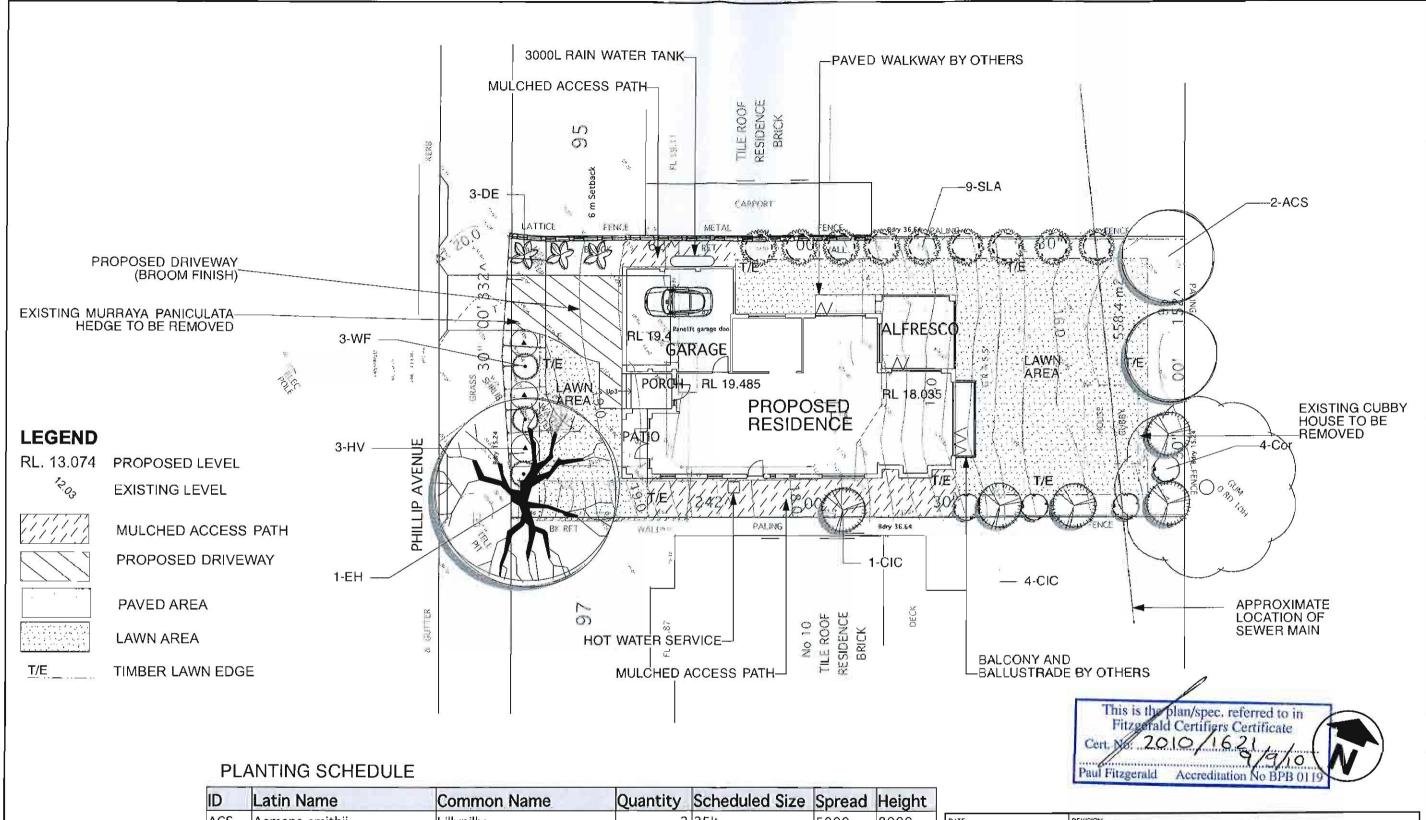
M.P.

DRWG No. 18/18

REV A

ISSUE

CHECKED BY: APPROVED FOR



Notas:

1. All dimensions and levels shall be verified by Contractor
on site prior to commencement of work.

2. All detailing of drainage to paved areas shall be by others.

3. All levels shall be determined by others and approved on

At levels shall be determined by others and approved on site by client.
 Extent, helphi and position of all retaining walls shall be determined by others and approved on site by client, to Structural Engineers detail.
 On oil scale from drawings.
 If in doubt confact the Landscape Architect.
 All boundaries shall be surveyed prior to commencement of construction works.
 This plan is for OA purposes only. It has not been detailed for construction.

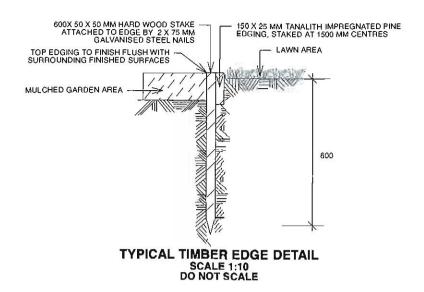
for construction.

9. All dimensions, levels and boundaries are nominal only.

10. This design shall not be copied, utilised or reproduced in any way without prior written permission of A Total Concept Landscape Architects.

ID	Latin Name	Common Name	Quantity	Scheduled Size	Spread	Height
ACS	Acmena smithii	Lillypilly	2	25lt	5000	8000
CIC	Callistemon citrinus	Crimson Bottlebrush	5	5LT	2500	2000
Cor	Correa alba	white correa	4	15lt	1500	1500
DE	Doryanthes excelsa	Gymea Lily	3	15lt	1500	1500
EH	Eucalyptus haemastoma	Scribbly Gum	1	25LT	10000	15000
HV	Hardenbergia violacea	Flase Sarsparilla	3	5lt	1500	400
SLA	Syzgium 'Aussie Compact'	Aussie Compact Lilly Pilly	9	15LT	2000	3000
WF	Westringia fruiticosa	Coastal Rosemary	3	5lt	1500	1500

DATE	REVISION			
PRC	POSED LANDSCAPE	PLAN		
ACDRESS LOT	96, 12 PHILLIP AVENUE, S	EAFORTH		PROJECT#
CLIENT LED O	MRS FOY	DATE #	12/05/10	DWG#
INIK	NIKS FUT	SCALE @ A3	1;200	L/01
A Total C	oncept Landscape Architects	○ DRAWN	JAL	2,0.
		CHKD	JL	REVISION A
65 West Street	Pool Designers t, North Sydney NSW 2060 5122 Fx: (02) 9957 5922	atc	est.	



Notes:

1. All dimensions and levels shall be verified by Contractor on site prior to commencement of work.

2. All detailing of drainage to paved areas shall be by others.

3. All levels shall be determined by others and approved on site by client.

4. Extent, height and position of all retaining walls shall be determined by others and approved on site by client.

5. Do not scale from drawings.

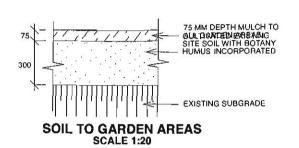
5. If in doubt contact the Landscape Architect.

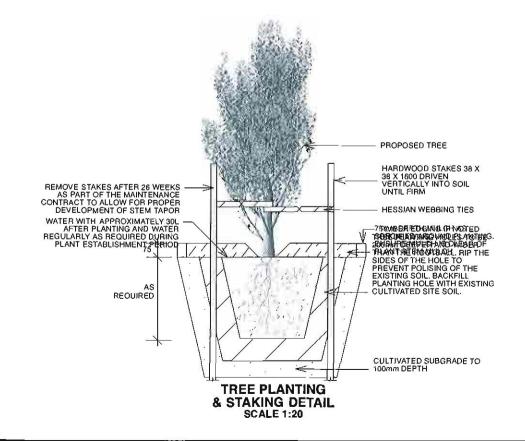
7. All boundaries shall be surveyed prior to commencement of construction works.

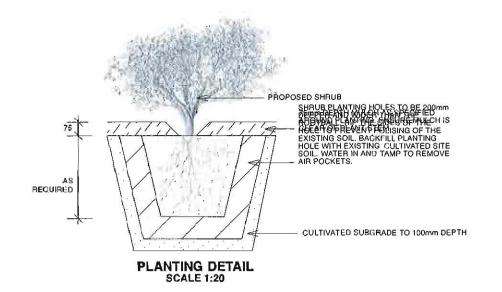
8. This plan is for OA purposes only. It has not been detailed for construction.

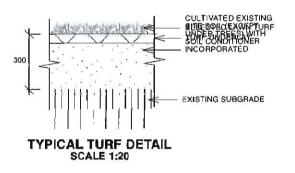
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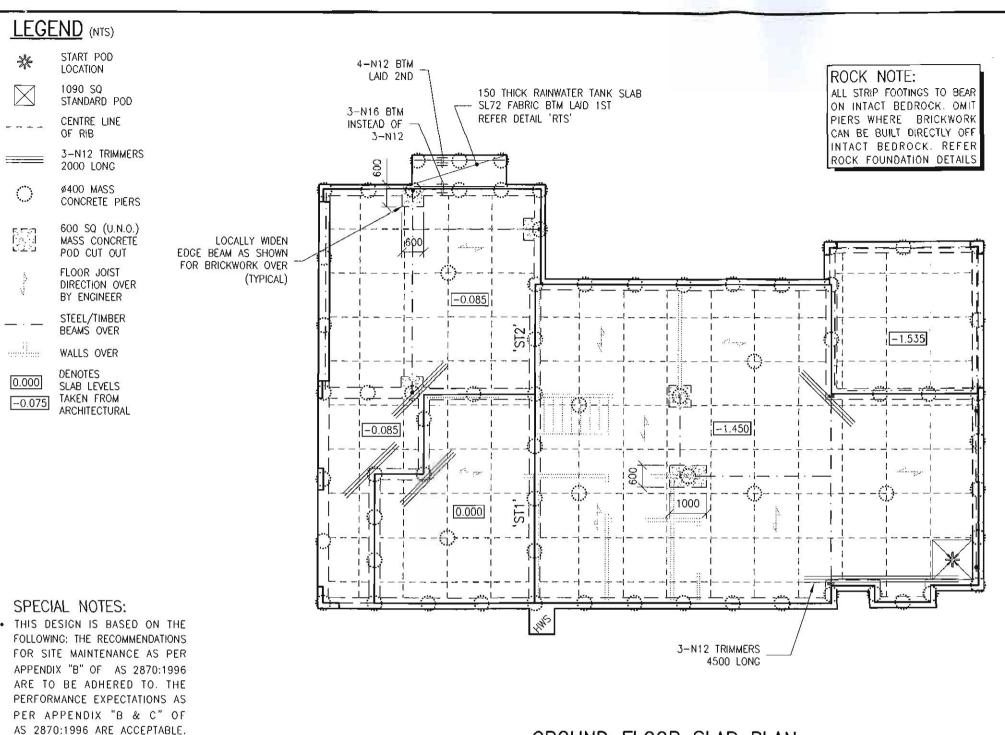






This plan forms part of the approved
Certificate as issued by
Fitzgerald Building Certifiers Pty Limited

0ATE	_	REVISION				
DRAWINI	LANDSCA	PE DETAILS				
AODRES	S LOT 96, 12 I	PHILLIP AVENUE, SE	AFORTH	00000000	PROJECT	FOY
CLIENT			DATE #	12/5/10	OWG#	
	MR & MRS F	-OY	SCALE @ A3	1;200]	L/02
ΔТ	Total Concent	Landscape Architects &	DRAWN	JAL]	LIUZ
			CHKD	JL	REVISION	
65 W	mming Pool De Vest Street, North Syd (02) 9957 5122 Fx: (tney NSW 2060	atc	91	in other ex-	



GROUND FLOOR SLAB PLAN

95 THICK SLAB (MAIN RESIDENCE) 85 THICK SLAB (GARAGE & PATIO) SL72 FABRIC TOP THROUGHOUT

VIC: EC 24609

This is the plantspec, referred to in Fitzgerald Certifiers Certificate 2010/1621 9/9/10 Paul Fizzgerald Accreditation No BPB 0119

DESIGN NAME CUSTOM

SITE CLASSIFICATION

WIND CLASSIFICATION

N₂

SITE LOCATION CLASSIFICATION

SL₂

- SL1. LESS THAN 1km FROM BREAKING SURF OR LESS THAN 100m FROM SALT WATER NOT SUBJECT TO BREAKING SURF OR WITHIN HEAVY INDUSTRIAL AREAS.
- SL2. 1km OR MORE BUT LESS THAN 10km FROM BREAKING SURF OR 100m OR MORE BUT LESS THAN 1km FROM SALT WATER NOT SUBJECT TO BREAKING SURF
- SL3. 10km OR MORE FROM BREAKING SURF OR 1km OR MORE FROM SALT WATER NOT SUBJECT TO BREAKING SURF.

ALL REFERENCED TABLES BELOW ARE TAKEN FROM THE BCA CLASS 1 AND CLASS 10 BUILDINGS HOUSING PROVISIONS VOLUME 2

PROTECTIVE COATINGS FOR STEELWORK REFER TABLE 3.4.4.2

CORROSION PROTECTION OF BUILT-IN STRUCTURAL STEEL MEMBERS REFER TABLE 3.3.3.2

CORROSION PROTECTION FOR WALL TIES REFER TABLE 3.3.3.1

TRUSSED ROOF NOTE:

SLAB HAS BEEN DESIGNED FOR ROOF LOADING TO BE SUPPORTED BY PROPRIETARY TRUSSES ONLY ONTO EXTERNAL WALLS ONLY.

ARTICULATION NOTE:

THIS SLAB IS DESIGNED FOR ARTICULATED MASONRY VENEER TYPE CONSTRUCTION & ARTICULATION JOINTS ARE TO BE PROVIDED AS PER THE B.C.A. VOL.2 CURRENT EDITION

DEEPENED BEAM NOTE:

THE FULL EXTENT OF DEEPENED EDGE BEAMS & ANY SET-DOWNS TO BE CARRIED OUT IN ACCORDANCE WITH ARCHITECTS DETAILS

HWS AND ACU NOTE:

HWS & ACU PADS ARE TO BE LOCATED AS PER ARCHITECTURAL DRAWINGS. WHEN IN FILL PLACE MASS CONCRETE PIER UNDER CONCRETE PADS.

THESE DETAILS HAVE BEEN PREPARED IN ACCORDANCE WITH ARCHITECTURAL

PREPARED BY:	RAWSON HOMES
DRAWING/JOB No.	DA00
REVISION/ISSUE:	00
DATED:	MAY 10
	XII

IF IN DOUBT, CONTACT ENGINEER.

EXPECTED CONCRETE PIERS

REQUIRED TO UNIFORM BEARING.

ENGINEER AND COUNCIL TO

INSPECT GROUND BEARING/PIERS

PRIOR TO POURING OF CONCRETE.

PIER SIZES-SEE GENERAL NOTES.

THIS DRAWING IS SIGNED SUBJECT TO CERTIFICATE OF INSPECTION

ISSUED BY ENGINEER.

DRAWN	DATE	AMENDMENT	REV

COPYRIGHT - THIS DRAWING REMAINS THE PROPERTY OF RESIDENTIAL ENGINEERING AND MAY NOT BE ALTERED IN ANY WAY WITHOUT RESIDENTIAL ENGINEERING WRITTEN CONSENT.

NEERING OLD: RPEQ 410

CONSULTING ENGINEERS 1/19 Jonathan Street www.residentialengineering.com.au Tel: 02 9896 5494 Greystanes NSW 2145 enquiries@residentialengineering.com.au Fax: 02 9636 1064

CLIENT RAWSON HOMES

UNIT 34/11-21 UNDERWOOD ROA

FOY & MORAN

SITE ADDRESS:

12 PHILLIP AVENUE **SEAFORTH**

A.W. McCARTHY B.SG.(Eng), M.I.E.Aust, N.P.E.R., C.P.Eng. NSW: BPB 0255 VIC: EC 24609 OLD: RPEO 4109

REVISION RW301 SHEET No. 16-8-10 1:100 CLIENT REF: DA0100

GENERAL NOTES

- ENGINEERS STRUCTURAL DRAWINGS ARE SIGNED AND ISSUED D1. ON THE UNDERSTANDING THAT THE BUILDER MAINTAINS IN FORCE, PROPER AND ADEQUATE CONTRACT WORKS INSURANCE AND PUBLIC LIABILITY INSURANCE DURING THE FULL COURSE. OF THE CONSTRUCTION, AND/OR ANY MAINTENANCE PERIOD. CLAIMS OF DAMAGE TO ANY ADJACENT PROPERTY OR BUILDING IS NOT THE RESPONSIBILITY OF THE ENGINEER.
- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT, ALL DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT FOR DECISION BEFORE PROCEEDING WITH
- DURING CONSTRUCTION THE BUILDING SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED AT ANY TIME. TEMPORARY BRACING SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE WORKS DURING CONSTRUCTION
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITIONS OF THE SAA CODES AND THERE-BY LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY
- G5. DIMENSIONS SHALL NOT BE OBTAINED BY SCALING THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR SET OUT PLAN MEASUREMENTS, ANY SET OUT DIMENSIONS SHOWN ON THIS DOCUMENT SHALL BE VERIFIED
- ANY DISCREPANCIES/SUBSTITUTION IN THESE DOCUMENTS D6. SHALL BE REFERRED TO THE ENCINEER FOR DECISION BEFORE PROCEEDING WITH THE WORL
- THE SECTIONS/DETAILS ON THESE DRAWINGS ARE INTENDED TO GIVE THE STRUCTURAL SPECIFICATIONS ONLY. ARCHITECTURAL SECTIONS/DETAILS ON THESE DRAWINGS ARE ILLUSTRATIVE ONLY.
- THESE DOCUMENTS ARE SIGNED SUBJECT TO CERTIFICATE OF INSPECTION BEING ISSUED BY THIS FIRM. ALL PIERS, SLAB AND FOOTING REINFORCEMENT SHALL BE INSPECTED BY THE ENGINEER PRIOR TO THE POURING OF CONCRETE, GIVE 24hrs NOTICE TO THE ENGINEER.

SITE CLASSIFICATION

- C1. THE SITE HAS BEEN CLASSIFIED BY RESIDENTIAL ENCINEERING IN ACCORDANCE WITH AS 2870 RESIDENTIAL SLABS AND FOOTINGS. THESE DOCUMENTS HAVE BEEN PREPARED USING THE ABOVE CODE ON THE BASIS OF A 'M' CLASSIFICATION, HOWEVER, THE SOIL TYPE AND SITE CONDITIONS WILL BE CHECKED BY THIS CONSULTANCY PRIOR TO THE PLACEMENT
- C2. THE FOOTING DETAILS SHOWN ARE FOR THE SITE CLASSIFICATION STIPULATED. WHILE EVERY CARE HAS BEEN TAKEN TO VERIFY THAT THE INFORMATION SHOWN IS CORRECT, RESIDENTIAL ENGINEERING TAKES NO RESPONSIBILITY FOR PS. VARIATIONS WHICH MAY OCCUR IN SITE CONDITIONS SUBSEQUENT TO CONSTRUCTION.
- C3. IF THE SITE HAS REEN THE SUBJECT OF A GEOTECHNICAL INVESTIGATION REQUIRING ADHERENCE TO PARTICULAR CONSTRUCTION PROCEDURES AND/OR TECHNIQUES. THE REQUIREMENTS OF THE APPROPRIATE QUALIFIED GEOTECHNICAL ENCINEER'S REPORT SHALL BE COMPLIED WITH IN FULL

ALL REFERENCE TO AUSTRALIAN STANDARDS AND B.C.A TO BE CURRENT EDITION.

IF IN DOUBT CONTACT ENGINEER.

SITE PREPARATION AND DRAINAGE

- STRIP TOPSOIL AND VEGETATION TO A 100mm MINIMUM F1. DEPTH AND STOCKPILE.
- THE SITE IS TO BE BENCHED BY CUT AND FILL TO DESIRED LEVELS
- ANY FILL USED IN THE CONSTRUCTION OF A SLAB EXCEPT WHERE THE SLAB IS SUSPENDED SHALL CONSIST OF "ROLLED OR CONTROLLED FILL"
- D3A. ROLLED FILL SHALL BE PLACED IN LAYERS OF 15Dmm MAXIMUM IN ACCORDANCE WITH AS 2870 CL 6.4.2 AND THOROUGHLY COMPACTED USING AN EXCAVATOR UNLESS THIS FILL IS COMPACTED IN ACCORDANCE WITH AS 2870 CL 6 4 2 IT IS NOT ADFOLIATE FOR THE LONG TERM STRUCTURAL SUPPORT TO THE SLAR/FOOTING SYSTEM, THEREFORE PIERS MUST BE INSTALLED.
- D3B. CONTROLLED FILL SHALL BE PLACED, TESTED AND CERTIFIED BY A QUALIFIED GEOTECHNICAL ENGINEER AS DEFINED IN AS 3798. THIS IS THEN DEEMED TO BE ADEQUATE TO SUPPORT THE SLAB/FOOTING SYSTEM
- THE FILL IS TO EXTEND PAST THE EDGE OF THE SLAB BY AT LEAST ONE METRE AND SHALL BE BATTERED OFF NOT STEEPER THAN TWO HORIZONTALLY TO ONE VERTICAL OR RETAINED BY A SUITABLE STRUCTURE PROVIDED BY THE OWNER OR BUILDER AS SOON AS POSSIBLE.
- THE FINISHED LEVELS SHALL ALLOW FOR THE MAIN SLAB TO BE AT LEAST 300mm ABOVE THE ADJACENT GROUND.
- SURFACE DRAINAGE SHALL BE PROVIDED AS REQUIRED TO AVOID THE POSSIBILITY OF WATER PONDING NEAR THE SLAB. A FALL OF 50mm OVER A DISTANCE OF ONE METRE AWAY FROM THE SLAB IS CONSIDERED ADEQUATE. SUBSOIL DRAINS (AGRICULTURAL DRAINS) ARE CONSIDERED DESIRABLE BUT SHOULD BE AVOIDED BEING LOCATED DIRECTLY ADJACENT TO THE FOOTINGS.
- IF ANY FOOTING IS LOCATED SUCH THAT A LINE DRAWN AT 45' FOR CLAY AND 30' FOR SAND FROM ITS BASE INTERSECTS A SERVICE TRENCH THEN PIERS ARE REQUIRED, REFER SERVICE TRENCH DETAIL.

PIFRS

- PIER DIAMETER AND LOCATIONS ARE SHOWN ON PLAN. ONLY WITH THE PRIOR APPROVAL OF THE ENCINEER MAY THE PIER F10. LAP LENGTHS IN REINFORCEMENT AT 'T' AND 'L' JUNCTIONS DIAMETER BE VARIED AS PER THE "PIER DIAMETER TABLE"
- U.N.O MINIMUM PIER DEPTH IS 600mm BELOW FOOTING TRENCH AND WHEREVER NOMINATED SHOULD BE SOCKETED A MINIMUM 300mm INTO STIFF CLAY.
- P3 ALL PIER HOLES SHALL BE CLEANED AND DE-WATERED PRIOR TO THE PLACEMENT OF CONCRETE.
- ALL PIERS SHALL BE POURED SEPARATE TO RAFT SLAB. F12, WELDING OF REINFORCEMENT OTHER THAN TACK WELDING
- IT SHOULD BE NOTED THAT IF ANY OF THE FOOTING BEAMS ENCOUNTER ROCK OR SHALE, THEN ALL BEAMS AND LOAD BEARING SPINE BEAMS SHALL BE PIERED TO ROCK OR SHALE, IF PARTIALLY PIERED TO ROCK THEN BRICK JOINTS F13, ALL CONCRETE SHALL BE MECHANICALLY VIBRATED ARE TO BE PROVIDED AT THE ROCK/NON-ROCK INTERFACE.

PIER DIAMETER TABLE					
STRATA	MINIMUM BEARING CAPACITY 'kPa'	SINGLE STOREY	DOUBLE STOREY		
STIFF CLAY	250	ø4D0 AT 2.0m CTS ø450-2.0m OR ø400-1.5m			
ROCK AND SHALE	600	ø400 AT 2.0m CTS	ø400−2.0m CTS		

FOOTINGS AND FLOOR SLAB

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE PIER TOPS ARE CLEAN OF FOREIGN MATTER PRIOR TO THE PLACEMENT OF THE MEMBRANE AND CONCRETE SLAB. ENGINEER'S SPOT CHECK DOES NOT RELEASE THE CONTRACTOR FROM THIS RESPONSIBILITY.
- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600
- PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE CONCRETE COVER TO REINFORCEMENT WITHOUT THE APPROVAL OF THE ENGINEER.
- PIPE PENETRATIONS IN THE EDGE AND SPINE BEAMS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE DETAILS. WHERE SLAB FABRIC IS CUT TO PERMIT PENETRATIONS OF PIPES, A 600 x 600mm PIECE OF FABRIC IS TO BE SPLICED OVER
- FOR 'H' AND 'E' CLASS SITES ALL PENETRATIONS THROUGH FOOTINGS AND EDGE BEAMS SHALL BE SLEAVED TO ALLOW MINIMUM 20mm ('H' CLASS) AND 40mm ('E' CLASS) MOVEMENT AS PER AS 2870, CLAUSE 5.5.4(A), ALL PLUMBING AND DRAINAGE SERVICES ARE TO BE FITTED WITH FLEXIBLE CONNECTIONS AS PER AS 2870 CLAUSE 5.5.4 (8).
- SUBTERRANEAN TERMITE PROTECTION IS TO BE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF AS 3660.1
- A DAMP PROOF MEMBRANE MUST BE PLACED BENEATH THE SLAB SO THAT THE BOTTOM OF THE SLAB IS ENTIRELY UNDERLAIN. THE DAMP PROOF MEMBRANE MUST BE 0.2mm NOMINAL THICKNESS POLYTHENE FILM AND OF HIGH IMPACT RESISTANCE, LAPS SHALL BE 200mm MINIMUM AT JOINTS ALL PLUMBING PENETRATIONS AND JOINTS ARE TO BE TAPED AND MADE WATERPROOF. THE SITE IS TO BE PROPERLY DRAINED TO ELIMINATE SURFACE AND SUBSOIL WATER FLOW.
- ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON INSULATED STEEL, PLASTIC OR CONCRETE CHAIRS. BAR CHAIRS SHALL BE PLACED SUCH THAT REINFORCEMENT IS ALWAYS POSITIONED WITH SPECIFIED COVER.
- SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN. THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE OBTAINED FOR ANY OTHER SPLICES. WHERE LAP LENGTHS ARE NOT SHOWN THEY SHALL SATISFY THE REQUIREMENTS OF AS 3600.
- ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE
- IF SLAB FABRIC IS USED IT IS TO BE SUPPLIED IN FLAT SHEETS AND IS TO BE LAPPED ONE FULL SQUARE PLUS 25mm AT SPLICES AND PLACED ON BAR CHAIRS AT ONE METRE CENTRES BOTH WAYS UNLESS REDUCED SPACING IS
- FOR PURPOSE OF MAINTAINING BARS IN CORRECT POSITION IS NOT PERMITTED UNLESS SPECIFICALLY NOMINATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER
- VIBRATORS SHALL NOT BE USED TO SPREAD CONCRETE.
- F14. REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY ONLY, IT IS NOT NECESSARILY SHOWN IN TRUE PROJECTION
- F15. BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS IF ANY. THICKNESS OF APPLIED FINISHES ARE

CONTROL OF PLASTIC SHRINKAGE AND SLAB MAINTENANCE

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN TI. ALL WORKS TO BE IN ACCORDANCE WITH AS 3660.1 CI. ACCORDANCE WITH AS 3600 AND AS 2870
- WATER IS NOT TO BE ADDED TO THE CONCRETE ON SITE SO AS TO INCREASE THE SLUMP ABOVE THAT SPECIFIED.
- NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE T3. STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE ELEMENTS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER
- C4. CURING THE CONCRETE SHALL START IMMEDIATELY AFTER FINISHING BY CONTINUALLY WETTING FOR 7 DAYS MINIMUM. PLASTIC OR WAX LIQUID SPRAYS MAY BE USED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS EXTRA PRECAUTION SUCH AS THE METHOD OF EVAPORATIVE RETARDATION (THE USE OF ALIPHATIC ALCOHOLS) IS RECOMMENDED DURING HOT WEATHER POURS TO HELP M1. AVOID THERMAL RELATED SLAB CRACKING
- CONSTRUCTION JOINTS WHERE NOT SHOWN SHALL BE M2. LOCATED TO THE APPROVAL OF THE ENGINEER.
- CAUTION SHOULD BE EXERCISED WHEN APPLYING BRITTLE FINISHES SUCH AS CERAMIC TILES TO THE FLOOR SLAB. BRITTLE FLOOR COVERINGS ARE TO BE LAID ON A SUITABLE FLEXIBLE TYPE BEDDING SYSTEM AND SUPPLIED WITH CONTROL JOINTS AT 400mm CENTRES MAXIMUM. ALTERNATIVELY SLOPE FABRIC CAN BE USED AS / IE ADVISED BY THE BUILDER ALTERNATIVELY FINISHES TO BE DELAYED FOR 3 MONTHS, REFER TO AS 2870 CL 5.3.7 OR AS 3958.
- THE OWNERS ATTENTION SHALL BE DRAWN TO APPENDIX 'A 'PERFORMANCE REQUIREMENTS AND FOUNDATION M7. MAINTENANCE' OF AS 2870.2 AND CSIRO PUBLICATION 'CUIDE TO HOME OWNERS ON FOUNDATION MAINTENANCE AND FOOTING PERFORMANCE

CONCRETE SPECIFICATION TABLE MAX_SIZE ELEMENT SLUMP AS 3600 AGGREGATE STRIP FOOTINGS 100 N20 20 SLAB ON GROUND 100 20 N20 PIERS 80 20 N15

REINFORCEMENT LAP TABLE

NOTE: BAR REINFORCEMENT IS TO BE TIED BENEATH THE FABRIC IF USED OR OTHERWISE PLACED ON BAR CHAIRS AND LAPPED AT SPLICES AS FOLLOWS:

BAR SIZE	N12	N16	N20	N24	N28	N32
LAP LENGTH	450	600	800	1200	1350	1650
<u></u>				- 42		

REINFORCEMENT COVER TABLE

SHELTERED AREAS EXPOSED AREAS ELEMENT BTM SIDES TOP BTM SIDES TOP SLAR 20 40 40 40 40 40 BEAMS 40 40 40 40 40 STRIP 50 50 50 FOOTINGS PIERS 50 50

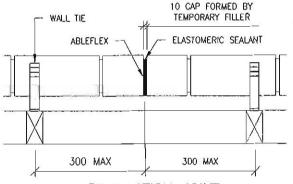
NQTE: BEAMS AND SLAB IN THIS TABLE ARE CONSIDERED TO HAVE AN INTACT MEMBRANE IN CONTACT WITH THE OROUND, BEAMS AND SLABS POURED DIRECTLY ACCOUNTS THE CROWN ARE TO HAVE SOMM CLEAR COVER ALL-ROUND

NOTES REGARDING SUB-TERRANEAN TERMITE PROTECTION

- T2. ANY FUTURE CRACKING OCCURRING IN THE SLAB IS TO BE ASSESSED BY A QUALIFIED PEST EXPERT AND WHERE DIRECTED BE SEALED BY EPOXY INJECTION
- INSPECTIONS OF THE RESIDENCE AND IMMEDIATE SURROUNDS TO BE CARRIED OUT BY A QUALIFIED PEST EXPERT ON AN ANNUAL BASIS BY THE HOME OWNER.
- SITE MAINTENANCE IS THE RESPONSIBILITY OF THE HOME OWNER. ALL RECOMMENDATIONS OUTLINED BY THE CSIRO SHEET 10-91 SHOULD BE CARRIED OUT.

MASONRY NOTES

- LOAD BEARING MASONRY SHALL COMPLY WITH AS 3700 AND THE PROJECT SPECIFICATION
- THE MINIMUM CHARACTERISTIC COMPRESSIVE STRENGTH OF THE MASONRY UNITS AS DESCRIBED IN AS 3700 SHALL BE 20MPa II N O
- MORTAR 1:1:6 PROPORTION BY VOLUME OF CEMENT, LIME AND SAND RESPECTIVELY.
- MASONRY SHALL BE ARTICULATED IN ACCORDANCE WITH THE B.C.A CLASS 1 AND 10 BUILDINGS VOLUME 2.
- INTERNAL BRICKWORK BUILT OFF THE SLAB SHALL BE LAID ON TWO LAYERS OF 'ALCOR' OR '3 PLY MALTHOID' OR SIMILAR SLIP JOINT MATERIAL
- MASONRY WALLS MUST NOT BE BUILT ON CONCRETE SLABS OR BEAMS UNTIL ALL FORMWORK/PROPS SUPPORTING THESE SLABS AND BEAMS HAVE BEEN REMOVED.



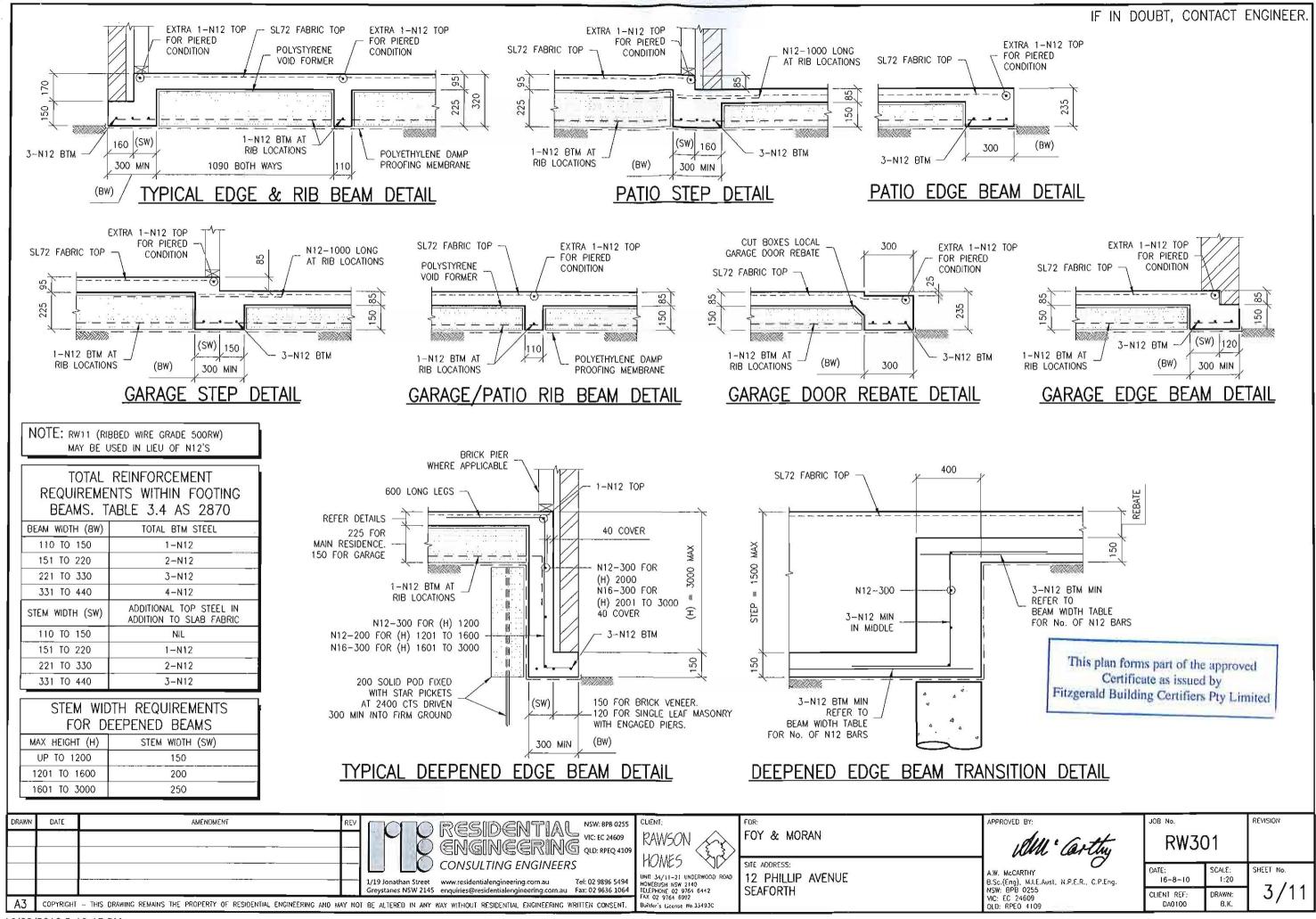
ARTICULATION JOINT AND WALL TIE DETAIL

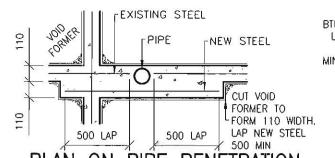
ALL WALL TIES TO BE BUILT IN AND FIXED TO FRAME PROCRESSIVELY AS CONSTRUCTION PROCEEDS SPACED AT EACH SIDE OF EXPANSION JOINTS AND AT EACH THIRD COURSE. THE SPACING OF ALL OTHER TIES SHALL BE AS DESCRIBED IN THE B.C.A CLASS 1 AND 10 BUILDINGS HOUSING PROVISIONS VOLUME 2.

WIN	D/WAL	L TIE	CLASSIFIC	ATION
WIN	1D	WALL TIE	HORIZONTAL	VERTICAL
CLASS	(V _P)	(DUTY)	SPACING	SPACING
N1	W28N1	LIGHT	600mm	600mm
N2	W33N2	MEDIUM	600mm	60Dmm
N3	W41N3	MEDIUM	600mm	430mm (5 COURSES)

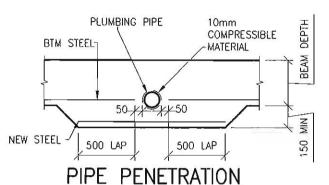
- WALL TIE SPACINGS AROUND OPENINGS 30Dcts EW.
- POLYMER WALL TIES RATED "LIGHT DUTY ONLY" (W28N1)
- (Vp = PERMISSABLE STRESS METHOD).

DRAWN	DATE	AMENDMENT	REV PRESIDENTEDIA N. NSW; BPB 0255	CLIENT:	FOR: Buil Cate Part or	APPROVED BY:	JOB No.	REVISION
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1/25 John College Williams College Col	UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH MSW 2140 TELEPHONE 02 9764 6442	FOR: FOY & MORAN SITE ADDRESS: 12 PHILLIP AVENUE SEAFORTH	Py Lings M. M. Accarthy B.S. (Eng). M.H. Aust, N.P.E.R., C.P.Eng N.W. BPB 0255	RW301 DATE: SCALE: 16-8-10 CLIENT REF: DRAWN:	SHEET No. 2 /11
A3 co	0PYRIGHT	T - THIS DRAWING REMAINS THE PROPERTY OF RESIDENTIAL ENGINEERING AND MA	AY NOT BE ALTERED IN ANY WAY WITHOUT RESIDENTIAL ENGINEERING WRITTEN CONSENT.	FAX 02 9764 6992 Builder's License No 334930		OLO: RPEQ 4109	DA0100 B.K.	<u> </u>





PLAN ON PIPE PENETRATION THROUGH RIB (PLAN VIEW)



THROUGH BEAM (ELEVATION)

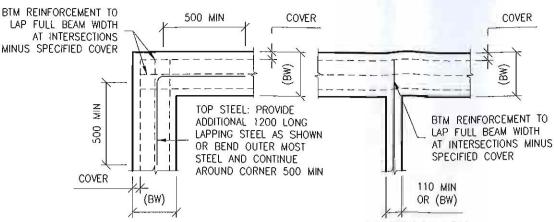
REFER BEAM WIDTH TABLE FOR No. OF NEW STEEL

NOTE: RW11 (RIBBED WIRE GRADE 500RW) MAY BE USED IN LIEU OF N12'S

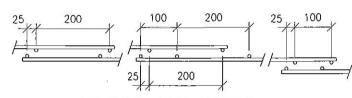
TOTAL REINFORCEMENT REQUIREMENTS WITHIN FOOTING BEAMS. TABLE 3.4 AS 2870 BEAM WIDTH (BW) TOTAL BTM STEEL 110 TO 150 1-N12 151 TO 220 2-N12

221 TO 330	· 3–N12
331 TO 440	4-N12
STEM WIDTH (SW)	ADDITIONAL TOP STEEL IN ADDITION TO SLAB FABRIC
110 TO 150	NIL
151 TO 220	1-N12
221 TO 330	2-N12
331 TO 440	3_N12

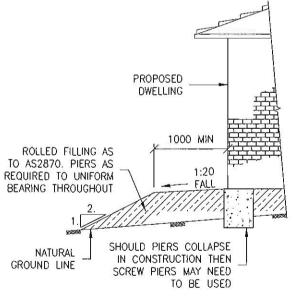
STEM WIL	OTH REQUIREMENTS
FOR D	EEPENED BEAMS
MAX HEIGHT (H)	STEM WIDTH (SW)
UP TO 1200	150
1201 TO 1600	200
1601 TO 3000	250



REINFORCEMENT LAPPING DETAIL AT INTERSECTIONS (PLAN VIEW)



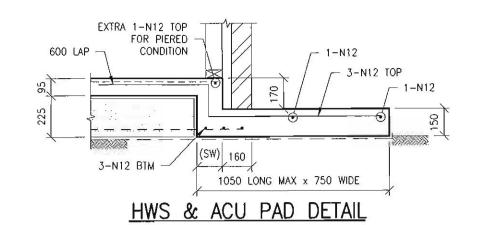
FABRIC LAP DETAIL

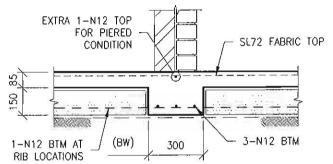






WET AREA EARTHING DETAIL





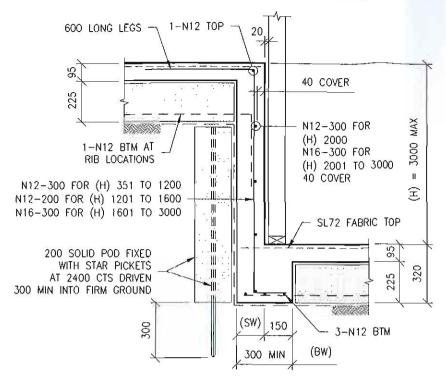
GARAGE/PATIO BEAM DETAIL WHERE APPLICABLE This plan forms part of the approved Certificate as issued b Fitzgerald Building Certifiers Pt SEAL TRENCH & BACKFILL TO BCA € REQUIREMENTS FGI NOTE: SERVICE IT IS OUTSIDE THE CONTROL TRENCH OF THE ENGINEER TO ENSURE THE DRAINAGE CONTRACTOR COMPLIES WITH THIS DETAIL. THE BUILDER SHALL ENSURE THAT THE DRAINAGE I.L. OF TRENCH CONTRACTOR COMPLIES WITH THIS DETAIL IN FULL 1:2 FOR SAND MASS CONCRETE PIERS STORMWATER 1:1 FOR CLAY TO INVERT LEVEL OF SERVICE TRENCH

SERVICE TRENCH DETAIL EDGE OF SLAB INSIDE SERVICE TRENCH ZONE OF INFLUENCE

IF IN DOUBT, CONTACT ENGINEER.

Limited

DRAWN	DATE	AMENDMENT R	V COO REGIDENTIAI NSW: 8PB 0255		FOR:	APPROVED BY:	JOB No.	REVISION
			- O ENGINEERING QLD: RPEQ 4109	HOMES FILE	FOY & MORAN	WM Carthy	RW301	
			CONSOLINIO EN CONTELITO	UNIT 34/11-21 UNDERWOOD ROAD	SITE ADDRESS: 12 PHILLIP AVENUE	8.Sc.(Eng), M.J.E.Aust, N.P.E.R., C.P.Eng.	DATE: SCALE: 16-8-10 1:20	SHEET No.
A3	COPYRICHT	- THIS DRAWING REMAINS THE PROPERTY OF RESIDENTIAL ENGINEERING AND MAY	Greystanes NSW 2145 enquiries@residentialengineering.com.au Fax: 02 9636 1064	TELEPHONE 02 9764 6442 FAX 02 9764 6992 Builder's License No.33493C	SEAFORTH	NSW: BPB 0255 VIC: EC 24609 QLD: RPEQ 4109	CLIENT REF: DRAWN: DA0100 B.K.	4/11



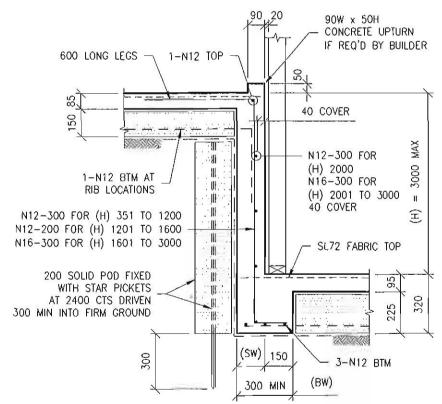
DEEPENED INTERNAL BEAM DETAIL 'ST1'

NOTE: RW11 (RIBBED WIRE GRADE 500RW)
MAY BE USED IN LIEU OF N12'S

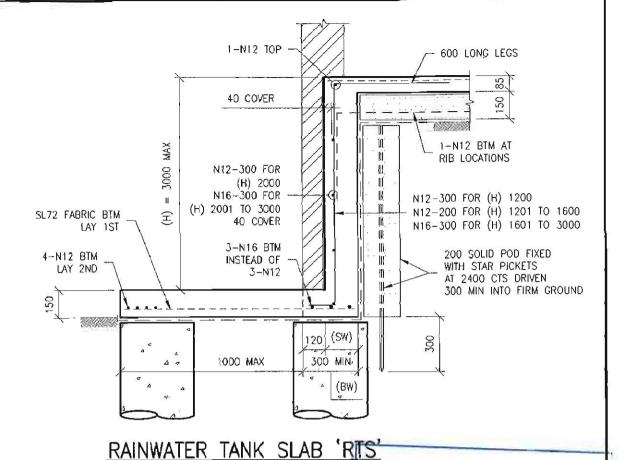
TOTAL REINFORCEMENT REQUIREMENTS WITHIN FOOTING REAMS TABLE 3.4 AS 2870

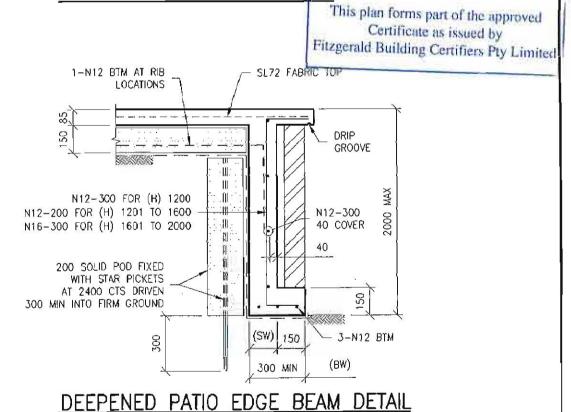
	BFWW2. I	ABLE 3.4 AS 28/0
	BEAM WIDTH (8W)	TOTAL BTM STEEL
	110 TO 150	1-N12
	151 TO 220	2-N12
	221 TO 330	3-N12
	331 TO 440	4N12
	STEM WIDTH (SW)	ADDITIONAL TOP STEEL IN ADDITION TO SLAB FABRIC
	110 TO 150	NIL
	151 TO 220	1-N12
	221 TO 330	2-N12
ĺ	331 TO 440	3-N12

	OTH REQUIREMENTS
FOR D	EEPENED BEAMS
MAX HEIGHT (H)	STEM WIDTH (SW)
UP TO 1200	150
1201 TO 1600	200
1601 TO 3000	250



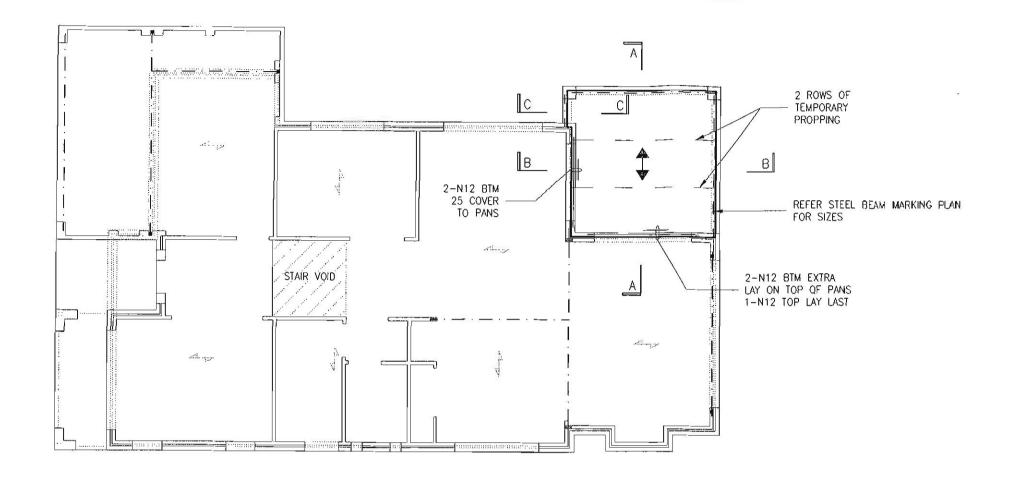
DEEPENED GARAGE TO MAIN RESIDENCE STEP DETAIL 'ST2'





IF IN DOUBT, CONTACT ENGINEER.

ORAWN	DATE	AMENOMENT 8	REV RESIDENTIAL NSW: 898 0255		FOR:	APPROVED BY:	JOB No.	REVISION
	-		ENGINEERING QLD: RPEQ 4109	INVANORA (\$-\$)	FOY & MORAN	WM Carthy	RW301	
			DISTONBUNG Street WWW.lesidelitidieligiliceting.com.dd 10. 02 5050 5 to t	UNIT 34/11-21 UNDERWOOD ROAD	SITE ADDRESS: 12 PHILLIP AVENUE	A.W. McCARTHY B.Sc.(Eng), M.I.E.Aust, N.P.E.R., C.P.Eng.	DATE: SCALE: 1:20	SHEET No.
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BALCONY SLAB PLAN

170mm THICK SLAB, 32MPa CONCRETE 1.0mm BONDEK BTM SL82 FABRIC TOP 30mm COVER EXTRA REINFORCEMENT AS SHOWN

OF BONDEK

DIRECTION

SUSPENDED SLAB NOTES

- SS1. IF SLAB FABRIC IS USED IT IS TO BE SUPPLIED IN FLAT SHEETS AND IS TO BE LAPPED ONE FULL SQUARE PLUS 25mm AT SPLICES AND PLACED ON BAR CHAIRS AT ONE METRE CENTRES BOTH WAYS UNLESS REDUCED SPACING IS SPECIFIED.
- SS2. ALL LOAD BEARING BRICKWORK IS SHOWN IN BROKEN LINE ON THE SLAB PLAN. THE TOP COURSE OF BRICKWORK IS TO BE COVERED WITH TWO LAYERS OF 'ALCOR' OR '3 PLY MALTHOID' OR SIMILAR SLIP JOINT MATERIAL.
- SS3. NON LOAD BEARING WALLS SHALL BE SEPARATED FROM CONCRETE ABOVE BY 20mm THICK CLOSED CELL POLYETHYLENE
- SS4. CONCRETE ENCASED STEELWORK SHALL BE WRAPPED IN SL41 FABRIC AND SHALL HAVE 50mm COVER U.N.O ON THE
- SS5. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. VIBRATORS SHALL NOT BE USED TO SPREAD CONCRETE.
- SS6. CURING THE CONCRETE SHALL START IMMEDIATELY AFTER FINISHING BY CONTINUALLY WETTING FOR 7 DAYS MINIMUM. PLASTIC OR WAX LIQUID SPRAYS MAY BE USED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. EXTRA PRECAUTION SUCH AS THE METHOD OF EVAPORATIVE RETARDATION (THE USE OF ALIPHATIC ALCOHOLS) IS RECOMMENDED DURING HOT WEATHER POURS TO HELP AVOID THERMAL RELATED SLAB

SUSPENDED SLAB REINFORCEMENT TABLE MINIMUM COVER U.N.O.								
COVER	FINISH	MAIN RESIDENCE (INTERNAL)	PATIO/BALCONY (EXTERNAL)					
TOP	TILED	20	30					
TOP	NON-TILED	20	45					
DTM	TILED	20	20					
BTM	NON-TILED	20	20					

SUSPENDED SLAB CONCRETE SPECIFICATION TABLE									
		F'C AT 28 DAYS							
SLUMP	MAX SIZE AGGREGATE		RESIDENCE ED AREAS)	PATIO, (UNCOVE	/BALCONY RED AREAS)				
80	20	TILED	NON-TILED	TILED	NON-TILED				
- 00		N20	N20	N20	N32				

This plan forms part of the approved Certificate as issued by Fitzgerald Building Certifiers Pty Limited

IF IN DOUBT, CONTACT ENGINEER.

AMENDMENT

21NG QLD: RPEQ 4109 **CONSULTING ENGINEERS** 1/19 Jonathan Street www.residentialengineering.com.au Tel: 02 9896 5494 Greystanes NSW 2145 enquiries@residentialengineering.com.au Fax: 02 9636 1064 A3 COPYRIGHT - THIS DRAWING REMAINS THE PROPERTY OF RESIDENTIAL ENGINEERING AND MAY NOT BE ALTERED IN ANY WAY WITHOUT RESIDENTIAL ENGINEERING WRITTEN CONSENT.

RAWSON HOMES

UNIT 34/11-21 UNDERWOOD ROAL

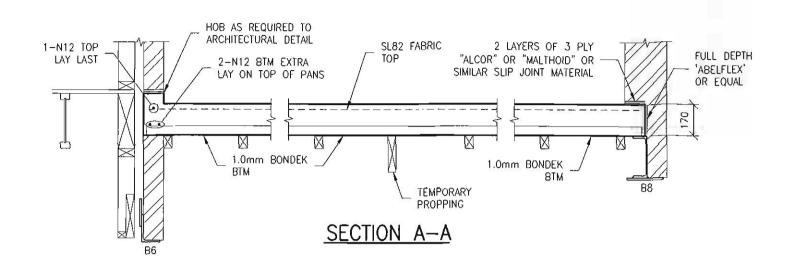
FOY & MORAN

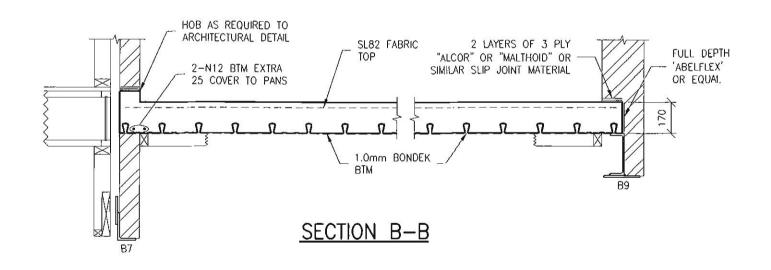
SITE ADDRESS: 12 PHILLIP AVENUE **SEAFORTH**

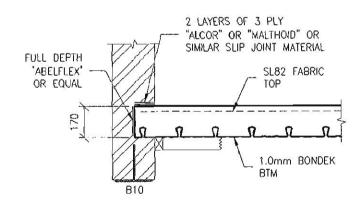
B.Sc.(Eng), M.I.E.Ausl, N.P.E.R., C.P.Eng. NSW: 878 0255 VIC: EC 24609 OLO: RPEQ 4109

REVISION RW301 DATE: SHEET No. SCALE: 16-8-10 1:100 6/11 CLIENT REF: DRAWN.

DATE







SECTION C-C

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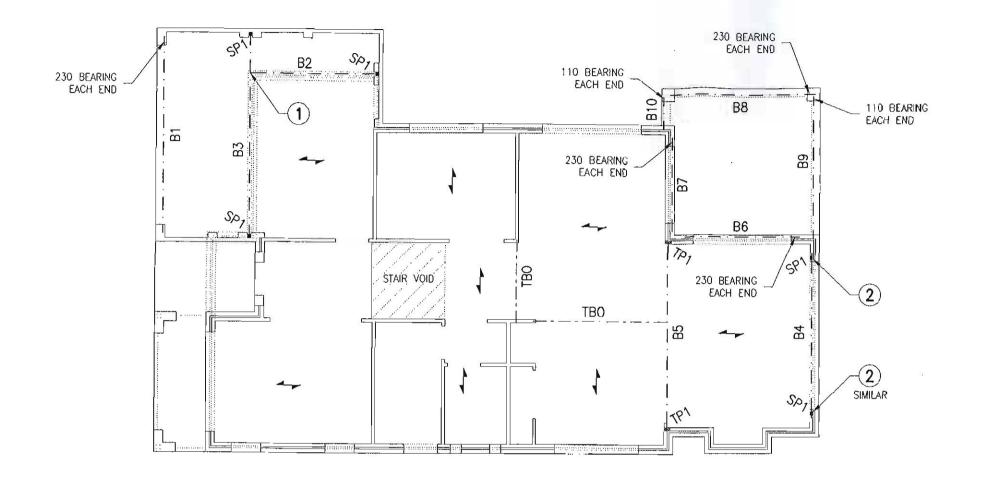
DRAWN	DATE	AMENDMENT	REV	OF DESIDENTIAL NSW: BPB 0255	CLIEN
				VIC: EC 24609 ORGINGERING QLD: RPEQ 4109	RA
	40.4		H	CONSULTING ENGINEERS	HC
				1/19 Jonathan Street www.residentialengineering.com.au Tel: 02 9896 5494 Tel: 02 9896 T	HOMEI TELEP FAX (
A3	COPYRIGHT	- THIS DRAWING REMAINS THE PROPERTY OF RESIDENTIAL ENGINEERING AND N	KAY NO		Builde

55) 109	CLIENT: RAWSON	FOY & MORAN			
94 64 T.	HOMES UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH HSW 2140 ELEPHONE 02 9764 6442 FAX 02 9764 6992 Builder's License No.33193C	SITE ADDRESS: 12 PHILLIP AVE SEAFORTH			
		L			

/		ia.		
	SITE ADDRESS:			
۵	12 PHILLIP	AVENUE		
	SEAFORTH	- 1/ -1/4		

APPROVED	BY:		
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u	Mi'	ar	lly
	TIN		0
A.W. McCAR B.Sc.(Eng),	M.I.E.Aust,	N.P.E.R.,	C.P.Eng.
NSW: BPB (
OLD: RPFO			

J08 No.		REVISION		
RW3	RW301			
DATE: 16-8-10	SCALE: 1:20	SHEET No.		
CLIENT REF: DA0100	DRAWN: 8.K.	7/11		



GROUND FLOOR STEELWORK MARKING PLAN

FLOOR JOIST DIRECTION NOTE:

FLOOR JOIST DIRECTION OVER ASSUMED BY ENGINEER.
ENGINEER IS TO BE CONTACTED IF ANY INCONSISTENCIES
OR CHANGES TO THE FLOOR JOIST DIRECTION ARE FOUND

STEEL BEAM PROFILE NOTE:

THE BEAM(S) SPECIFIED ON THIS DRAWING DOES NOT REPRESENT THE ONLY POSSIBLE STRUCTURAL SOLUTION. PLEASE CONTACT RESIDENTIAL ENGINEERING IF AN ALTERNATIVE BEAM PROFILE WOULD BE PREFERRED FOR ARCHITECTURAL OR CONSTRUCTABILITY REASONS.

GALINTELS AND T-BAR NOTE:

THE INSTALLATION OF GALINTELS AND T-BARS TO BE STRICTLY IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS. PROVIDE 230 MIN END BEARING UNO

This plan forms part of the approved

Certificate as issued by

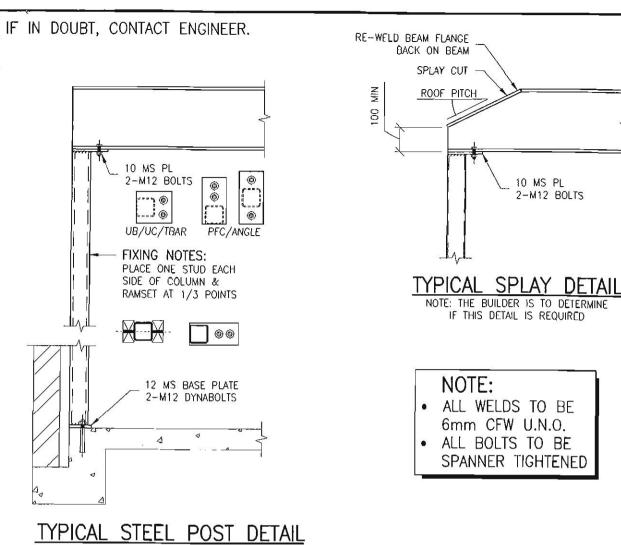
Fitzgerald Building Certifiers Pty Limited

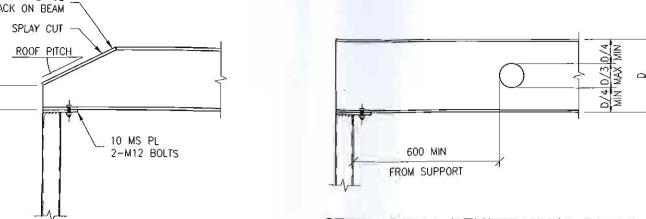
STEEL BEAM SCHEDULE

ITEM	DESCRIPTION					
B1	200 PFC + 200 x 10 MS PL					
B2	200UB18					
B3	310UB46					
84	230 PFC + 200 x 10 MS PL					
B5	250UB31					
B6	150 x 100 x 10 RSA + 150 x 10 MS PL					
. B7	150 x 100 x 10 RSA + 150 x 10 MS PL					
B8	230 PFC + 200 x 10 MS PL					
89	230 PFC + 200 x 10 MS PL					
B10	200 x 200 x 7 GALINTEL 'T' BAR					
SP1	75 x 75 x 4.0 SHS					
TP1	4 / 90 x 45 MGP10 STUDS					
TBO	TIMBER BEAM BY OTHERS					

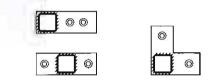
IF IN DOUBT, CONTACT ENGINEER.

DRAWN	DATE	AMENDMENT REV	PACIFICATION OF THE NAME OF BOXES		FOR:	APPROVED BY:	J06 No.	REVISION
			RESIDENTIAL NSW: BPB 0255 VIC: EC 24609 ENGINEERING QLD: RPEQ 4109	HUNKE 3	FOY & MORAN	voll " Cartty	RW301	
				UNIT 34/11-21 UNDERWOOD ROAD HOMEBUSH NSW 2140 TELEPHONE 02 9764 6442		A.W. McCARTHY B.Sc.(Erg), M.LE.Aust, M.P.E.R., C.P.Eng. NSW: BPB 0255	DATE: SCALE: 16-8-10 1:100 CHENT REF: DRAWN:	SHEET No.
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STEEL BEAM PENETRATION DETAIL



COLUMN BASE PLATE DETAILS

- ORIENTATE BASE PLATE TO SUIT WALL LOCATION
- 12mm THICK BASE PLATE U.N.O
- 2-M12 DYNABOLTS, 100 MIN EMBEDMENT U.N.O
- 6mm CFW CONNECTION OF COLUMN TO BASE PLATE

2 - M10COACH BOLTS This plan forms part of the approved Certificate as issued by Fitzgerald Building Certifiers Pty Limited GALVANISED HOOP IRON STRAPS AT 1/3 POINTS OF STUDS SECURELY NAIL EACH STUD TO THE ADJACENT STUD NOTF: REFER STEEL BEAM SCHEDULE FOR No. OF STUDS

TYPICAL TIMBER POST DETAIL

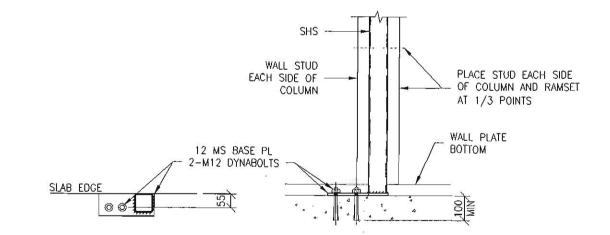
STRUCTURAL STEEL NOTES

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100.
- SZ. STEELWORK DESIGNED IN ACCORDANCE WITH AS 4100 "STEEL STRUCTURES CODE" AND AS 1170.1/AS 1170.2 "DEAD AND LIVE LOADS AND WIND LOADS". STRUCTURAL STEEL TO BE GRADE (BHP 300 PLUS)
- S3. SURFACE PREPARATION AND FINISH TO COMPLY WITH AS/NZS 2312 AND BUILDING CODE OF AUSTRALIA CLASS 1 AND 10 BUILDINGS VOLUME 2. THE BUILDER MUST CLARIFY HIS CONTRACTUAL OBLIGATIONS IN THIS REGARD.
- S4. THE INSTALLATION OF GALINTELS AND 'T' BARS TO BE STRICTLY IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
- S5. THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION IS THE BUILDERS RESPONSIBILITY. ADEQUATE TEMPORARY BRACING SHALL BE PROVIDED AS IS NECESSARY TO STABILISE THE STRUCTURE DURING CONSTRUCTION.
- WEIDS
- ALL WELDS TO BE 6mm CONTINUOUS FILLET WELD
 IN 0
- BUTT WELDS WHERE INDICATED IN THE DOCUMENTS TO BE COMPLETE PENETRATION BUTT WELDS AS DEFINED IN AS 1554.
- ALL SHOP WELDS TO BE FULLY WELDED U.N.O.
- USE E41XX ELECTRODES FOR ALL WELDING U.N.O.
- S7. SITE WELDING OF HOT DIP GALVANISED STEEL IS PERMISSIBLE IF UPON COMPLETION THE WELDS ARE TREATED WITH THE APPROPRIATE COATING FOR SEVERE AS PER THE B.C.A AND AS/NZS 2312.
- BOLT DESIGNATION:
 - 4.6/S COMMERCIAL BOLT OF GRADE 4.6 TO AS 1111 SNUG TIGHTENED
 - 8.8/S HIGH STRENGTH STRUCTURAL BOLTS OF GRADE 8.8 TO AS 1252 SNUG TIGHTENED
 - BOLTS TO BE PROVIDED WITH THREADS CLEAR OF SHEAR PLANE.

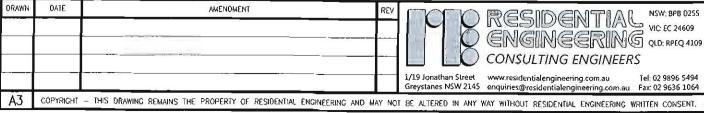
ALL BOLTS TO BE COMMERCIAL GRADE U.N.O. NO CONNECTION SHALL HAVE LESS THAN TWO BOLTS. ALL BOLTS AND WASHERS TO BE GALVANISED.

BEAMS SUPPORTED ON BRICKWORK (BEARING NOTED ON PLAN) TO HAVE INCOMPRESSIBLE PACKING AS REQUIRED UNDER THE ENDS OF THE BEAM TO ENSURE EVEN BEARING ON THE BRICKWORK.

- S11. THE BUILDER SHALL PROVIDE ALL CLEATS AND DRILL ALL HOLES NECESSARY FOR FIXING STEEL TO STEEL AND TIMBER TO STEEL, WHETHER OR NOT DETAILED IN THE DRAWINGS
- S12. ALL GUSSET PLATES TO BE 10mm THICK U.N.O.
- S13. ALL COLUMNS AND BEAMS SHOWN ON THE DRAWINGS FOR TIMBER FRAMED BUILDINGS SHALL BE LATERALLY RESTRAINED BY THE BUILDING FRAME AT EACH SUPPORT LOCATION THROUGH POSITIVE SCREW FIXING OF WALL STUDS TO THE COLUMNS AND EITHER JOISTS OR NOGGINGS TO THE BEAMS. FOR ARTICULATED FULL MASONRY BUILDINGS, COLUMNS WILL BE LATERALLY RESTRAINED BY BRICKWORK AT EACH SUPPORT LOCATION THROUGH POSITIVE FIXING OF WALL TIES. WHERE A BEAM DIRECTLY SUPPORTS A CONCRETE SLAB NO ADDITIONAL RESTRAINT IS REGUIRED.
- S14. THE BUILDER IS TO MAKE GOOD AND/OR REPAIR ALL DAMAGED SURFACES DURING PERFORMANCE OF THE WORK.



COLUMN BASE PLATE CONNECTION DETAILS





FOY & MORAN

SITE ADDRESS:

12 PHILLIP AVENUE
SEAFORTH

APPROVED BY:

While Gerthy
A.W. McCARTHY

A.W. McCARTHY B.Sc.(Eng), M.I.E.Aust, N.P.E.R., C.P.Eng. NSW: BP8 0255 NC: EC 24609 OLD: RPEG 4109 DATE: 16-8-10 1:15

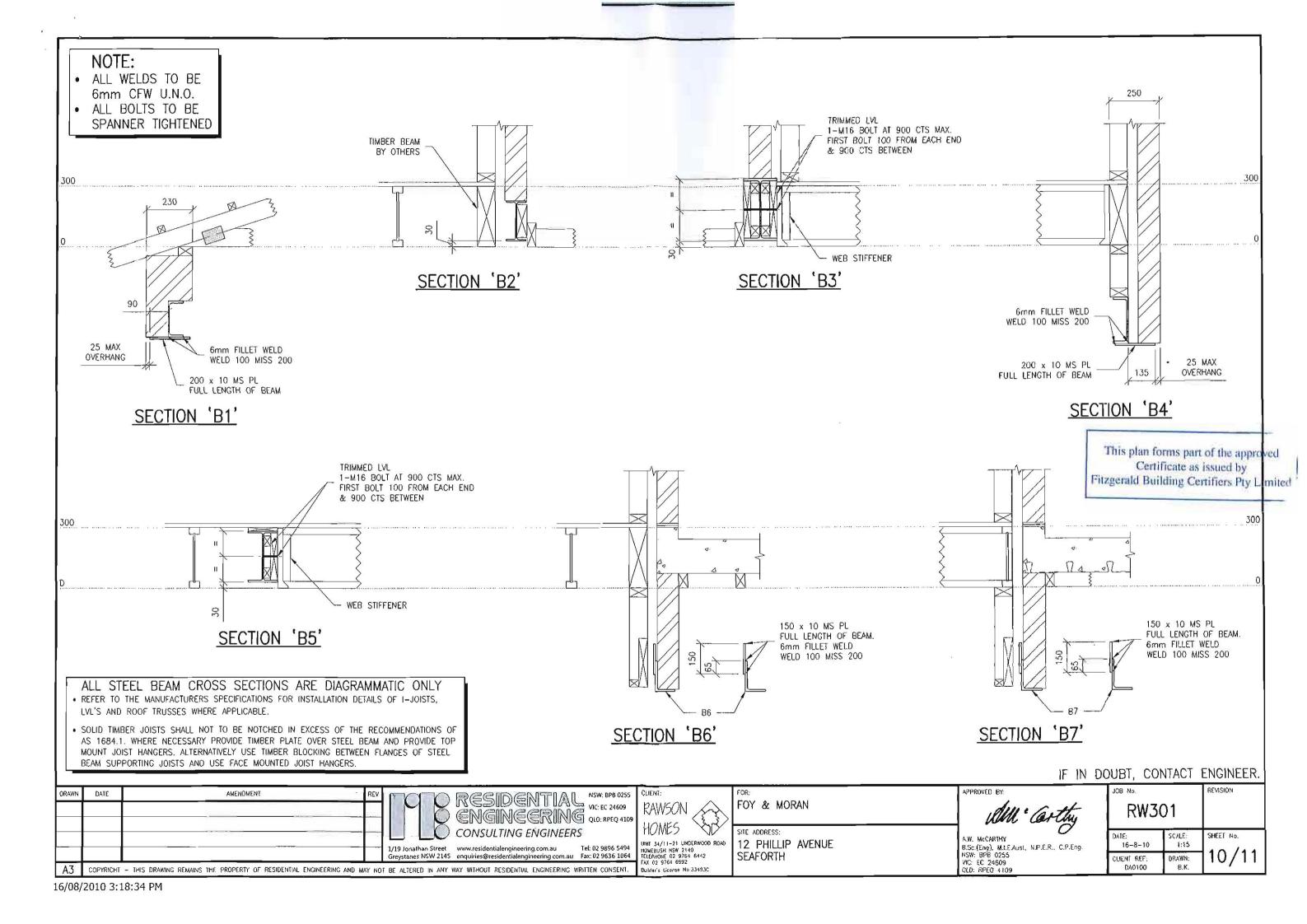
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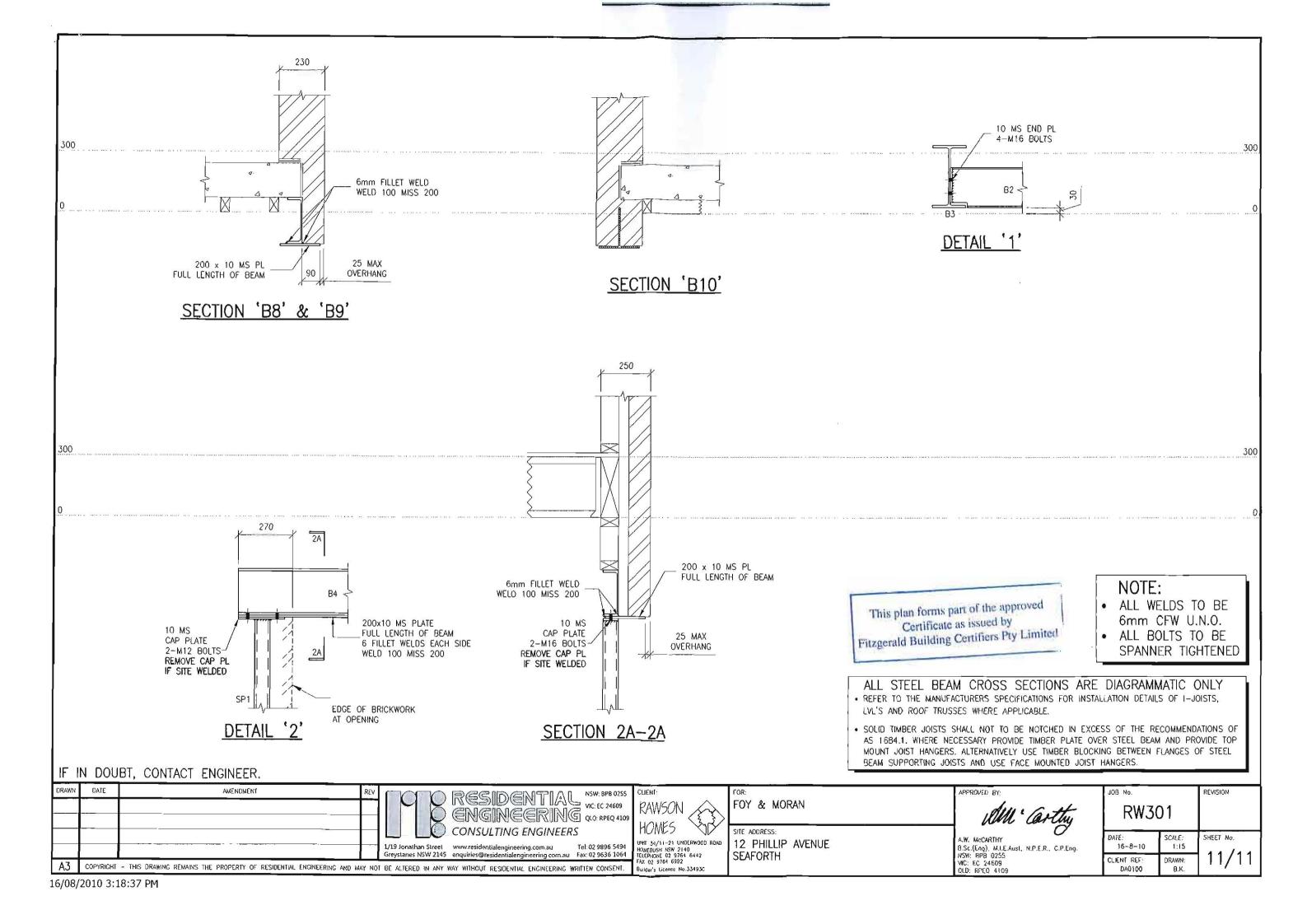
REVISION

REVISION

SHEET NO. 1.15

9/11





GENERAL NOTES:

- 1. ALL WORKS TO BE IN ACCORDANCE WITH MANLY COUNCIL'S STANDARD SPECIFICATIONS AND TO THE SUPERVISING ENGINEER'S SATISFACTION.
- 2. THESE PLANS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL PLANS FROM NICHOLAS GRAY (RAWSON HOMES PTY. LTD.) REVISION OO DATED MAY 2010 (PHONE: (02) 9764 6442) AND THE LANDSCAPE PLANS FROM SITE DESIGN PROJECT No. 10204 REVISION B DATED 15 JUNE 2010.
- 3. ALL STORMWATER PIPES TO BE 100 DIA UPVC UNLESS NOTED OTHERWISE. PIPES UNDER DRIVEWAY TO BE SEWER GRADE.
- 4. DEPTH AND LOCATION OF SEWER & SERVICES TO BE CONFIRMED PRIOR TO COMMENCEMENT OF DRAINAGE WORKS.
- 5. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENTATION CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF COUNCIL PRIOR TO COMMENCEMENT OF CONSTRUCTION AND DURING CONSTRUCTION.
- 6. ENSURE FINISHED GROUND LEVELS ARE SLOPPING AWAY FROM THE DEVELOPMENT & INTO PITS OR YARD SUMPS, AS SHOWN ON THE ATTACHED DRAINAGE PLAN.
- 7. HYDRAULIC PLANS ARE SUBJECT TO COUNCIL APPROVAL.

REVISION A

ARCHITECTURAL & LANDSCAPE PLANS ALTERED (POOL ADDED AT THE REAR OF THE PROPERTY) HYDRAULIC PLANS CHANGED ACCORDINGLY. (REVISION A REFLECT THOSE CHANGES)

CALCULATION FOR ABSORPTION TRENCH

TOTAL AREA INTO ABSORPTION TRENCH = 420m2 (APPROX.) (PLEASE NOTE ALL ROOF WATER TO DRAIN TO TOP OF RWT FIRST & OVERFLOW FROM TOP OF RWT TO BE CONNECTED TO STORMWATER LINE PRIOR TO DISCHARGING TO ABSORPTION TRENCH SYSTEM)

FOR EVERY 15m OF AREA, NEED 1m OF ABSORPTION TRENCHING (OR 1m2 OF AREA NEED 0.015m3 STORAGE) 420/15 = 28m OR 6.30m3

TRY 9.2m LONG 2.0m WIDE ABSORPTION TRENCH

VOLUME PROVIDED

 $= 2 \times 9.2 \times 0.41^{2} \times \frac{\pi}{4} = 2.43 \text{ m}$ 410 JUMBO $GRAVEL (ABOVE) = 2 \times 9.2 \times 0.3 \times 0.4 = 2.21m3$ GRAVEL (BELOW) = $2 \times 9.2 \times 0.3 \times 0.2 = 1.10 \text{m}$

PITS VOLUME $= 2 \times 0.6 \times 0.6 \times 1.06 = 0.76 \text{m}$ TOTAL = 6.50m3 > 6.30m3 ...OK

J.NASSERI

BE, FIEAust.,

PER, CPEng.

June NO10.

PROVIDE 9.2m LONG 2m WIDE ABSORPTION TRENCH

OSD CALCULATIONS:

MANLY COUNCIL ON THEIR STORMWATER SPECIFICATIONS REQUIRES THE FOLLOWING: A DETAILED STORMWATER MANAGEMENT PLAN SHALL BE PREPARED TO FULLY COMPLY WITH COUNCIL'S "SPECIFICATIONS FOR ON-SITE STORMWATER MANAGEMENT 2003" AND SHALL BE SUBMITTED WITH THE CONSTRUCTION CERTIFICATE APPLICATION.

USED ILSAX TO CALCULATE OSD VOLUME (REFER TO OSD CALCULATION ATTACHED)

VOLUME REQUIRED = 8.10 m3

EXISTING PSD₅ = 20 1/sec EXISTING PSD₁₀₀ = 35 1/sec PROPOSED PSD₅ = 35 I/secPROPOSED $PSD_{100} = 13 l/sec$

COMBINED DETENTION & RETENTION SYSTEMS AND PROVIDED 5,000 LITRES CAPACITY ABOVEGROUND RAINWATER TANK FOR RETENTION SYSTEM AND 6.50 m3 ABSORPTION TRENCH SYSTEM AT REAR OF THE PROPERTY.

CALCULATIONS:

TOTAL SITE AREA = 558.40 m2 TOTAL ROOF AREA INTO RWT = 206.00 m2 TOTAL PROPOSED IMPERVIOUS AREA = 247.90 m2 (44.4%) TOTAL EXISTING IMPERVIOUS AREA = 156.50 m2 (28%) (INCLUDING ROOF, GARAGE, DRIVEWAY AND PAVED AREAS)

BASIX REQUIREMENT: 3000 LITRES CAPACITY RAINWATER TANK FOR 140 m2 OF ROOF AREA. PROVIDED 5000 LITRES CAPACITY RWT FOR TOTAL ROOF AREA.

IMPORTANT NOTES:

- 1. DISCUSSED THE STORMWATER ISSUES WITH COUNCIL'S ENGINEER ON 18 JUNE 2010. DUE TO THE FALL OF THE LAND AND NOT HAVING A DRAINAGE EASEMENT AT REAR. THE ONLY OPTION AVAILABLE IS AN ABSORPTION TRENCH SYSTEM WITH PUMP OUT TO STREET GUTTER.
- THE SITE FALLS TO THE REAR. THERE IS NO DRAINAGE EASEMENT AT REAR. COLLECT ALL ROOF WATER INTO RAINWATER TANKS FOR RE-USE OF WATER. THE OVERFLOW FROM TOP OF RWT AND SURFACE WATERS AROUND THE DWELLING TO DRAIN INTO A ABSORPTION TRENCH SYSTEM WITH PUMP OUT SYSTEM PIT AT REAR.
- 3. AN ABOVEGROUND RAINWATER TANK WITH TOTAL CAPACITY OF 5000 LITRES HAS BEEN PLACED ON SOUTHERN SIDE OF THE DWELLING TO COLLECT ROOF WATER ONLY FOR RE-USE OF WATER SUCH AS TOILET FLUSHING, LAUNDRY AND IRRIGATION SYSTEMS - 100 DIA SEWER GRADE OVERFLOW FROM TOP OF THE RWT TO BE CONNECTED TO STORMWATER LINE AT 1% MIN FALL PRIOR TO DISCHARGING TO ABSORPTION TRENCH SYSTEM AT REAR OF THE PROPERTY. (REFER TO SHEET No.2 FOR DETAILS).
- 4. ALL SURFACE WATER & OVERFLOW FROM TOP OF RWT TO BE DRIANED TO AN ABSORPTION TRENCH SYSTEM PRIOR TO DISCHARGING TO FRONT BOUNDARY VIA PUMP PIT (PIT 3) AT 10% RISE. FROM FRONT BOUNDARY DISCHARGING TO STREET GUTTER AT 14% RISE

26.07.2010

- 5 LEVELS ARE CRITICAL. PRIOR TO ANY CHANGES CONTACT ENGINEER.
- 6. PRIOR TO BACKFILLING STORMWATER PIPES & ABSORPTION TRENCH ENGINEER FOR AN INSPECTION.

This is the plan/spec, referred to it Fitzgerald Certifiers Certificate 2010/1621

YSTEM CONTACT. Accreditation No BPB (119

NASSERI ASSOCIATES

CIVIL, HYDRAULIC & STRUCTURAL ENGINEERING SUITE 51, No.14 NARABANG WAY, BELROSE 2085 PO BOX 714, BALGOWLAH, NSW 2093

TEL. (02) 9986 3875 FAX. (02) 9986 3876

MOB. 0410 308 064 EMAIL nasseriassociates@bigpond.com

SYMBOLS & NOTATIONS

- - STORNWATER LINES

- INY INVERT LEVEL (PIPE / PIT)
- SL FINISHED SURFACE LEVEL FFL FINISHED FLOOR LEVEL
- FPL FINISHED PLATFORM LEVEL -X- SEDIMENT CONTROL BARRIER ---- PROPOSED BOUNDARY

-- SEWER

A ARCHITECTURAL & LANDSCAPE PLANS ALTERED

CLIENT: RAWSON HOMES (FOY & MORAN)

LOT 96, (H/No.12) PHILLIP AVENUE, SEAFORTH

HYDRAULIC DETAILS

NOTES, CALCULATIONS & PIT DETAILS

SCHE AS SHOWN DRAWN HA ситскего ЈМ

JOB No. D2406 CAD REF. ENG/RAWSON

SHEET No. 1

