

Approved Building Consent Documents

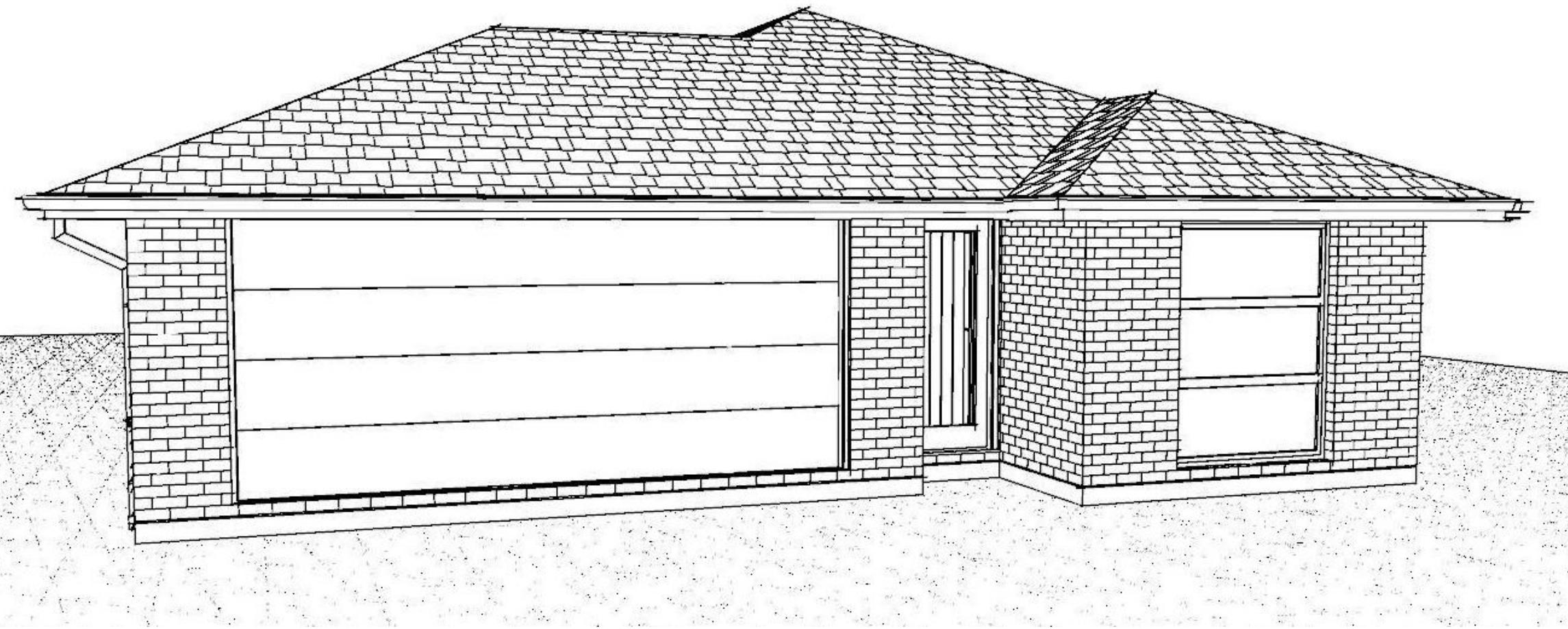
Please Note: A copy of the stamped approved documents must be available on site for all inspections.

Inspection booking timeframes

Call received	before 3pm inspection will be done	after 3pm inspection will be done
Monday	Wednesday	Thursday
Tuesday	Thursday	Friday
Wednesday	Friday	Monday
Thursday	Monday	Tuesday
Friday	Tuesday	Wednesday

Building inspections and enquiries phone: 03 347 2839

Please ensure all work for inspection is ready the day before. Incomplete work requiring re-inspection will incur an additional inspection fee.



Contents:	
Sheet 1 :	Cover Sheet
Sheet 2 :	Site Plan
Sheet 3 :	Floor Plan
Sheet 4 :	Elevations
Sheet 5 :	Elevations
Sheet 6 :	Cross Sections
Sheet 7 :	Roof Plan
Sheet 8 :	Set Out Dimensions
Sheet 9 :	Foundation Plan
Sheet 10 :	RibRaft Plan
Sheet 11 :	Drainage Plan
Sheet 12 :	Bracing Plan
Sheet 13 :	Lighting Plan
Sheet 14 :	Framing Details
Sheet 15 :	Framing Details
Sheet 16 :	Construction Details
Sheet 17 :	Construction Details
Sheet 18 :	Construction Details
Sheet 19 :	Construction Details
Sheet 20 :	Bathroom Details
Sheet 21 :	Plumbing Details
Sheet 22 :	Truss Design
Sheet 23 :	Truss Design

All dimensions are to be checked and confirmed prior to any construction
Plans are to be read in conjunction with Specifications and all supporting documentation



TKR Homes Ltd.
31 Watts Road, Sockburn
PO BOX 11 351
Christchurch 8443
P: +64 3 342 7788

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Bo Cooper &
Tasman Hawes
Lot 2, DP 570907
17 Rufus Street, Rolleston

Job Number:
171562
Original Plan:
Rifleman
Sheet Name:
COVER PAGE
Sales: V Bhatia Drawn: L Stephens QS: W Xian Print Date: 13-Jul-23 Scale: @ A3

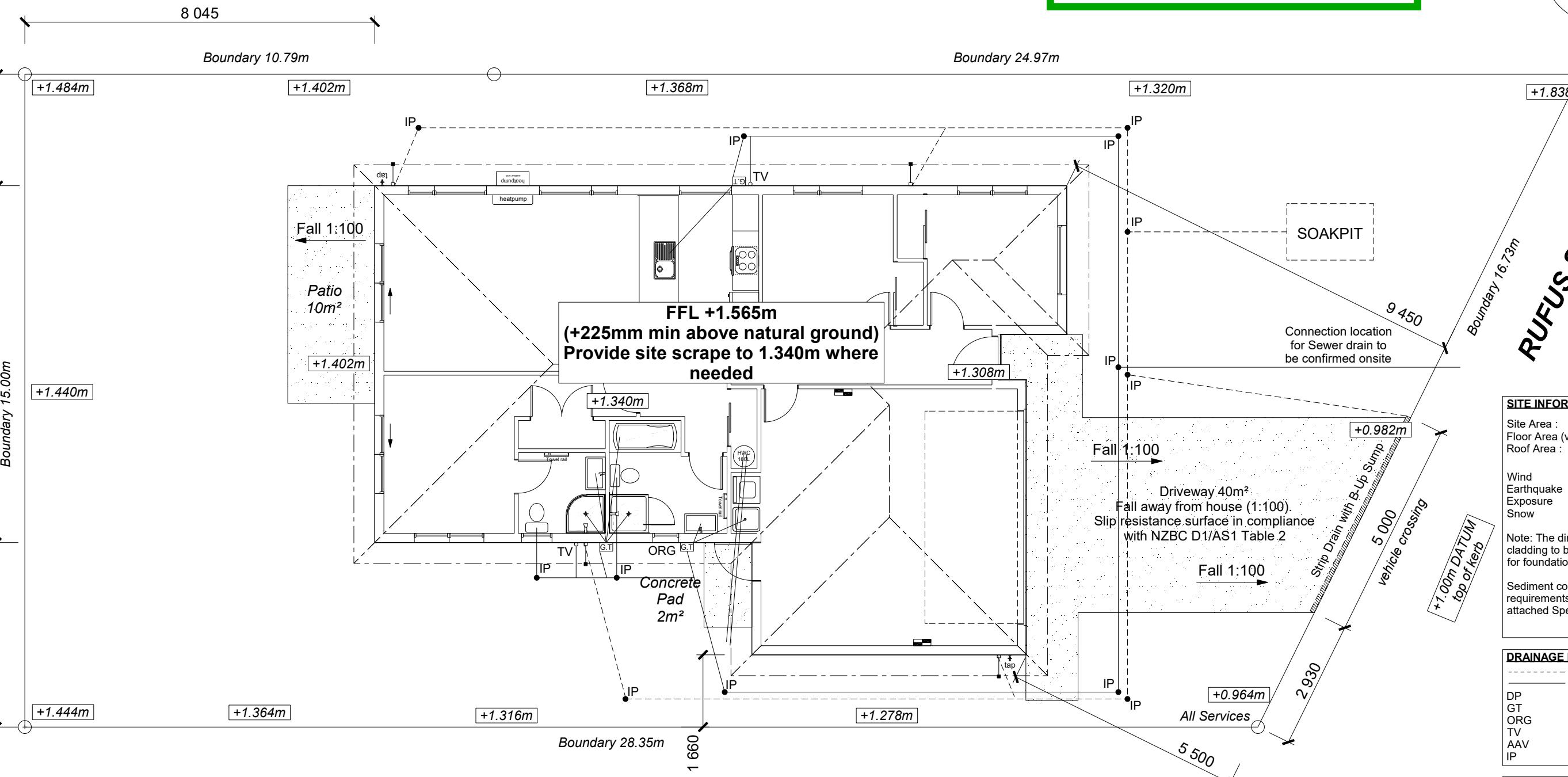
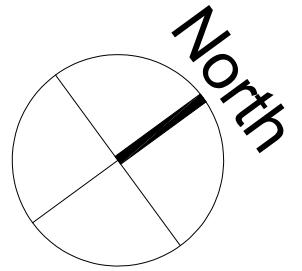
CONSENT PLANS

No.	Date:	Reason:
1	15-06-2023	Initial Consent Drawings

Sheet No.:
1
of 23 sheets

Planning Approved

7/08/2023 wendy.green



SITE INFORMATION

Site Area : 480m²
Floor Area (veneer) : 141.76m² / 29.53%
Roof Area : 168.91m² / 35.19%

Wind High
Earthquake 2
Exposure B
Snow N 4 at 50m (up to 1kPa)

Note: The dimensions shown are from cladding to boundary. Refer to sheet 8 for foundation to boundary dimensions.

Sediment control and site safety requirements are noted in the attached Specifications.

DRAINAGE LEGEND

---	Stormwater DN100mm uPVC
- - -	Sewer Drain DN100mm uPVC
DP	Downpipe
GT	Gully Trap
ORG	Overflow Relief Gully
TV	Terminal Vent
AAV	Air Admittance Valve
IP	Inspection Point

DRAWING NOTES

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Job Number:
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Sheet Name:
SITE PLAN

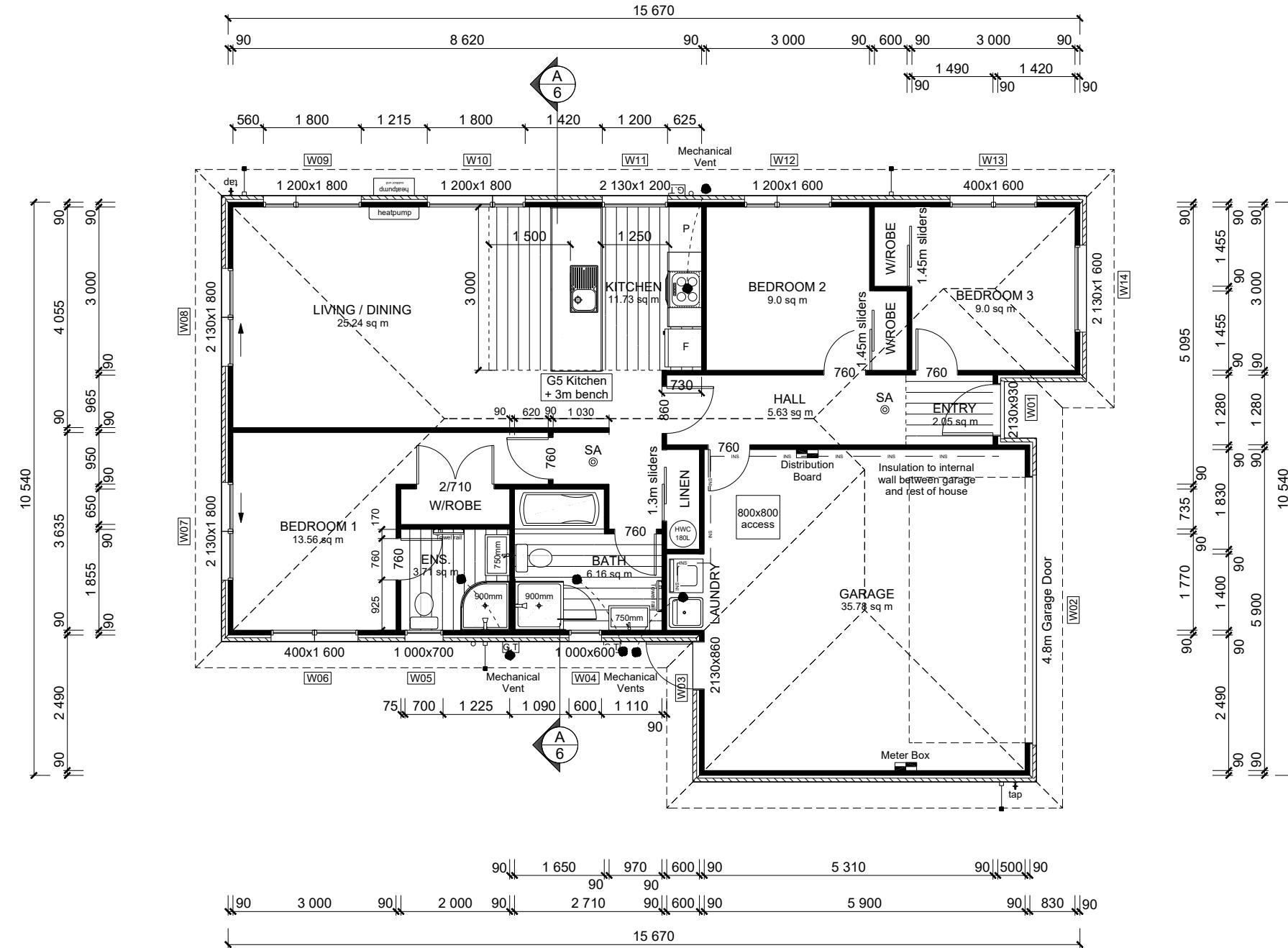
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No.	Date:	Reason:
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Sheet No.:
2

of 23 sheets



ROOF & WALL CLADDINGS
Roof: 25° Pressed Metal Tiles
Walls: 70 Series Brick Veneer with a 50mm cavity

DWELLING AREAS
Framing Area: 135.27m² (Perimeter: 53.60m)
Veneer Area: 141.76m² (Perimeter: 54.56m)
Roof Area: 168.91m² (Perimeter: 57.22m)

SMOKE ALARMS (hush type)
Domestic Smoke Alarms to be fitted within 3.0m of sleeping areas and on Escape routes, as indicated on plan. To comply with one of the following standards: UL 217, ULC-S531, AS 3786, BS 5446 (part 1).

FLOOR PLAN NOTES
Dimensions shown are to the frame, GIB thickness not shown.
Mechanical ventilation to comply with G4/AS1
Air Seals to have PEF rod & low expansion foam
All windows and doors centered in room unless shown otherwise
Laundering facilities provided complying with G2/SA1 1.0
Provide sealant under skirting and paint to concrete around tub & W/M fixtures

WALL FRAMING
Stud Height: 2400 mm
(2455mm to u/s of bottom chord)

FLOOR FINISHES
Carpet & Vinyl

KITCHEN HOB
Electric Hobs

DOORS
Internal Height: 1980mm (leaves)
Leaf widths as shown on the plan (R/O +80mm)
Type: Hollow core flush panel
Front Door Type: Latitude Aluminium

WINDOW JOINERY
Low-E with Argon Gas Double glazed Thermally Broken Aluminum Joinery
Standard single glazing to Garage

INTERNAL TRIMS
Scotia: Square Stopped (Including Garage)
Skirting: 60x12mm Pine, single bevel edge
Architrave: N/A

SHELVING
Shelf & Rails to all wardrobes
4 shelves to Linen cupboard

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Original Plan:
Rifleman

Sheet Name:
FLOOR PLAN

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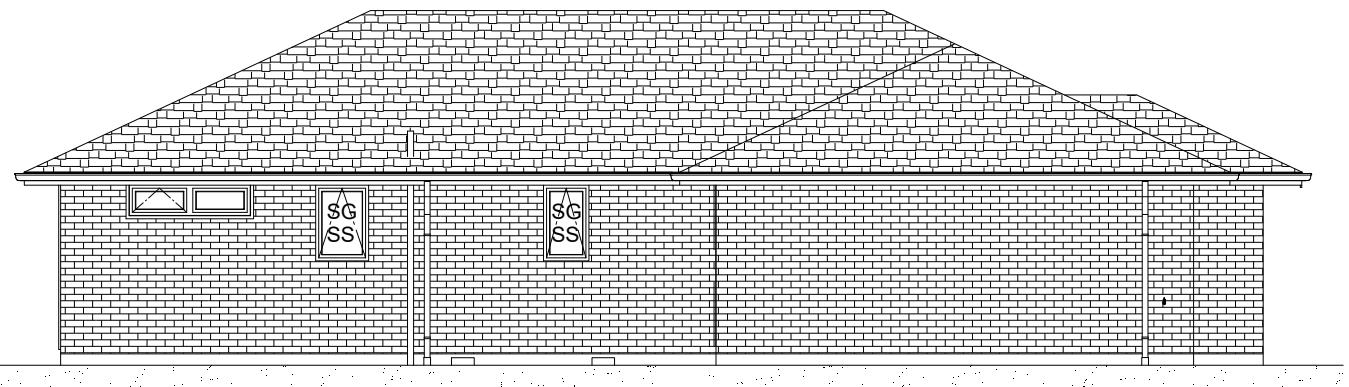
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Sheet No.:
3

of 23 sheets

BUILDING ENVELOPE RISK MATRIX		
ELEVATION A		
RISK CRITERIA	RISK	SCORE
Wind Zone	High	1
Number of Stories	Low	0
Roof Wall Junction	Low	0
Eaves Width	Medium	1
Building Envelope	Low	0
Decks & Balconies	Low	0
Total		2



ELEVATION A

BUILDING ENVELOPE RISK MATRIX		
ELEVATION B		
RISK CRITERIA	RISK	SCORE
Wind Zone	High	1
Number of Stories	Low	0
Roof Wall Junction	Low	0
Eaves Width	Medium	1
Building Envelope	Low	0
Decks & Balconies	Low	0
Total		2



ELEVATION B

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Sheet Name: **ELEVATIONS**
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ROOF & WALL CLADDINGS
Roof: 25° Pressed Metal Tiles
Walls: 70 Series Brick Veneer with a 50mm cavity

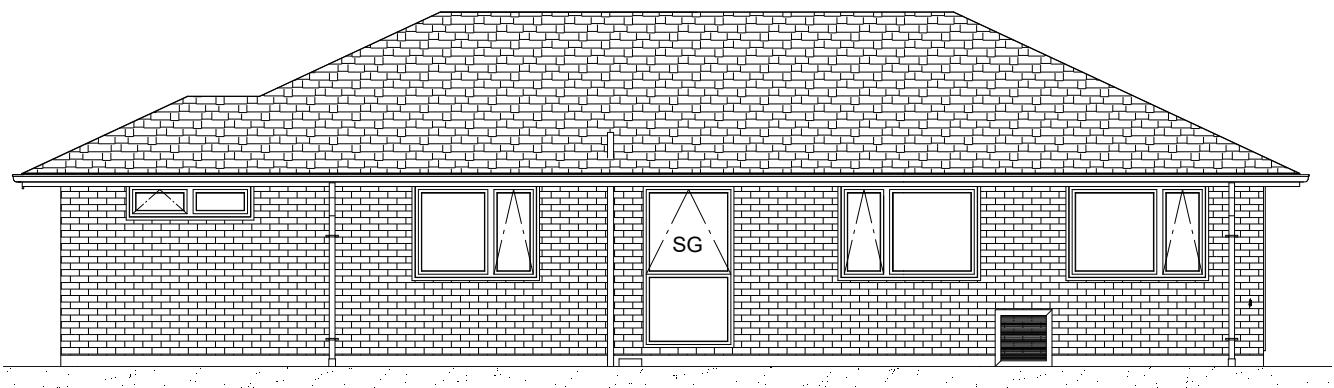
ELEVATION LEGEND
SS Safety Stays
SG Safety Glass
MB Meter Box
TV Terminal Vent

ELEVATION NOTES
Gutter: Coloured Steel Quad Gutter
Fascia: Coloured Steel 185 Fascia
Downpipes: Colorsteel Rectangular 75x55mm
Soffits: Hardiflex 4.5mm
Joinery: Low-E with Argon Gas Double glazed Thermally Broken Aluminum Joinery
Standard single glazing to Garage

All egress points to have a maximum step down of 190mm.
Access routes to have slip resistance surface in compliance with NZBC D1/AS1 Table 2 and to have a 1:100 fall away from the building

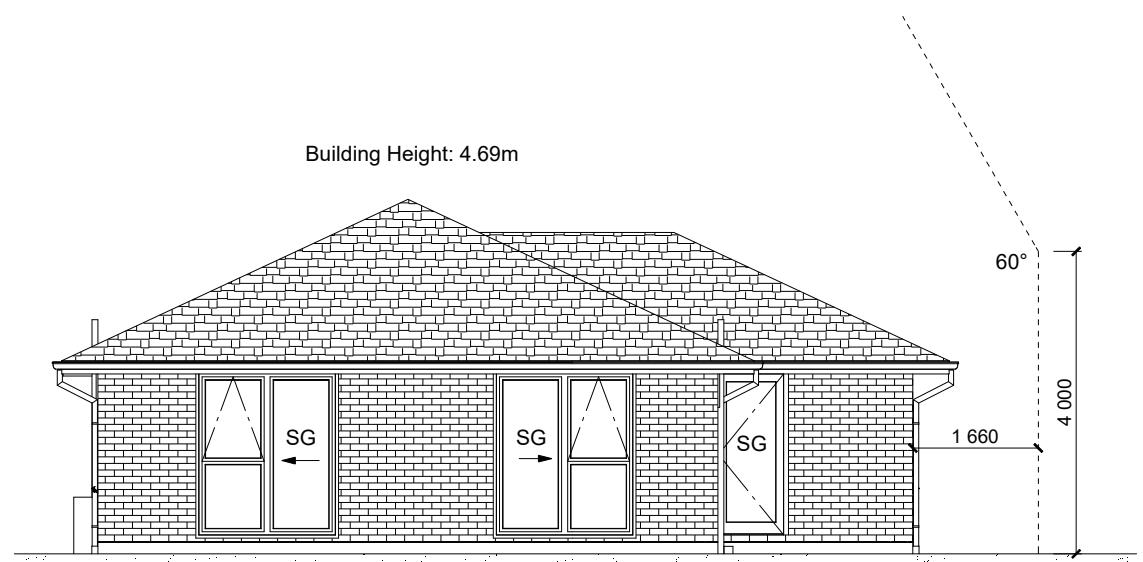
Sheet No.: **4**
of 23 sheets

BUILDING ENVELOPE RISK MATRIX		
ELEVATION C		
RISK CRITERIA	RISK	SCORE
Wind Zone	High	1
Number of Stories	Low	0
Roof Wall Junction	Low	0
Eaves Width	Medium	1
Building Envelope	Low	0
Decks & Balconies	Low	0
Total		2



ELEVATION C

BUILDING ENVELOPE RISK MATRIX		
ELEVATION D		
RISK CRITERIA	RISK	SCORE
Wind Zone	High	1
Number of Stories	Low	0
Roof Wall Junction	Low	0
Eaves Width	Medium	1
Building Envelope	Low	0
Decks & Balconies	Low	0
Total		2



ELEVATION D

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Sheet Name: **ELEVATIONS**
Sales: **V Bhatia** Drawn: **L Stephens** QS: **W Xian**
Print Date: **13-Jul-23** Scale: **1:100 @ A3**

ROOF & WALL CLADDINGS
Roof: 25° Pressed Metal Tiles
Walls: 70 Series Brick Veneer with a 50mm cavity

ELEVATION LEGEND
SS Safety Stays
SG Safety Glass
MB Meter Box
TV Terminal Vent

ELEVATION NOTES
Gutter: Coloured Steel Quad Gutter
Fascia: Coloured Steel 185 Fascia
Downpipes: Colorsteel Rectangular 75x55mm
Soffits: Hardiflex 4.5mm
Joinery: Low-E with Argon Gas Double glazed Thermally Broken Aluminum Joinery
Standard single glazing to Garage
All egress points to have a maximum step down of 190mm.
Access routes to have slip resistance surface in compliance with NZBC D1/AS1 Table 2 and to have a 1:100 fall away from the building

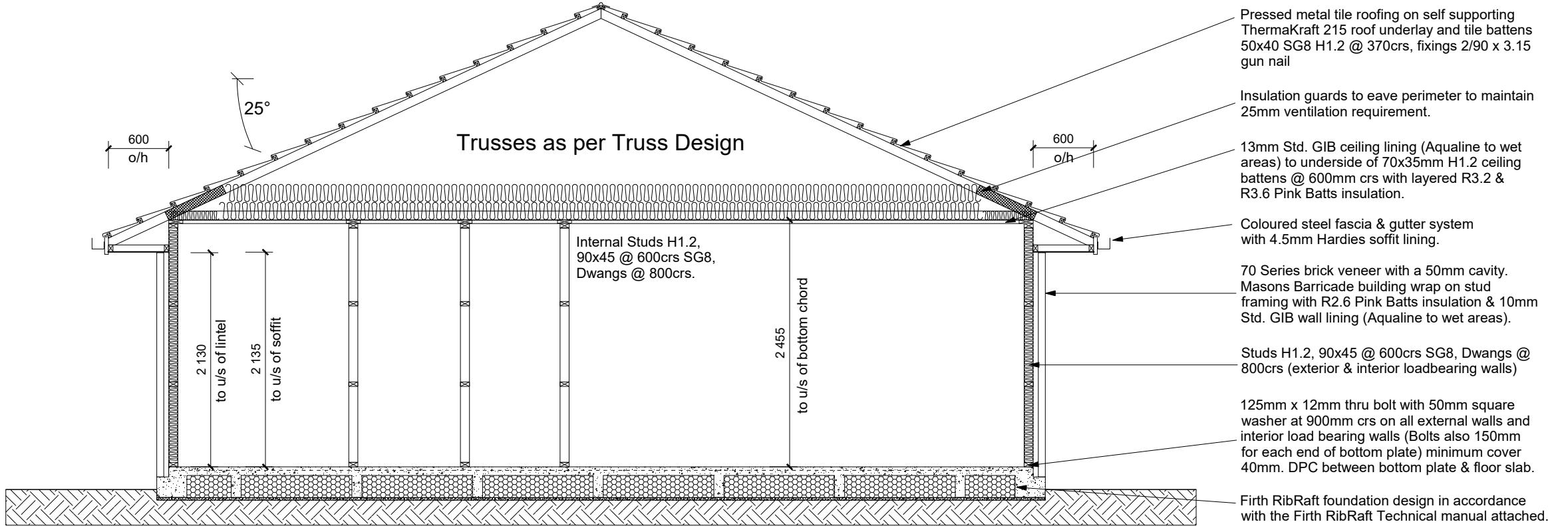
Sheet No.: **5**
of 23 sheets

ROOF & WALL CLADDINGS
 Roof : 25° Pressed Metal Tiles
 Walls : 70 Series Brick Veneer
 with a 50mm cavity

CROSS SECTION NOTES
 Building wrap is to comply with E2/AS1 & Nzs 3604:2011.
 Flashing materials must be selected based on environmental exposure. Refer to Nzs 3604:2011 & table 20 of E2/AS1.
 Flashing tape must have proven compatibility with the selected wrap & other materials with which it comes into contact as per table 21 of E2/AS1.
 Fixings shall comply with Nzs 3604:2011 Section 4 Durability Tables 4.1-4.3
 Unless stated otherwise, timber members on drawings are to be a minimum of SG8 strength graded as per Nzs 3604:2011.

Joinery : Low-E with Argon Gas Double glazed Thermally Broken Aluminum Joinery Standard single glazing to Garage

INSULATION
 Ceiling: Pink Batts R3.2 + R3.6 Ceiling Batts
 Wall: Pink Batts R 2.6 Wall Batts



CROSS SECTION A-A

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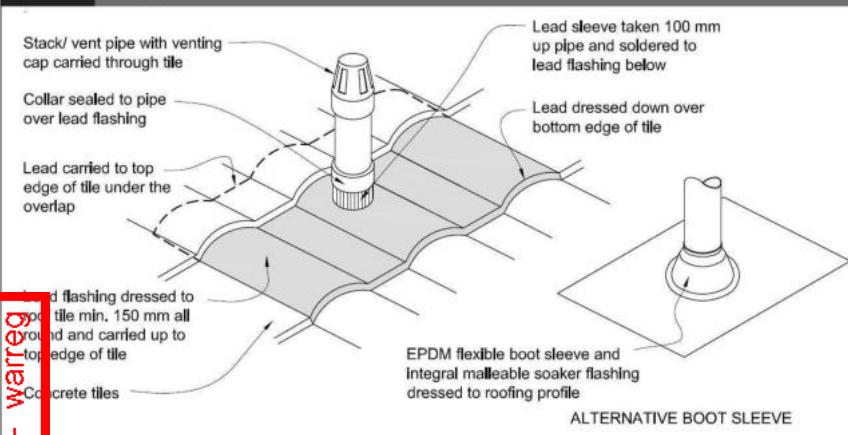
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Sales:	Drawn:	QS:	Print Date:	Scale:
V Bhatia	L Stephens	W Xian	13-Jul-23	1:50 @ A3

CONSENT PLANS

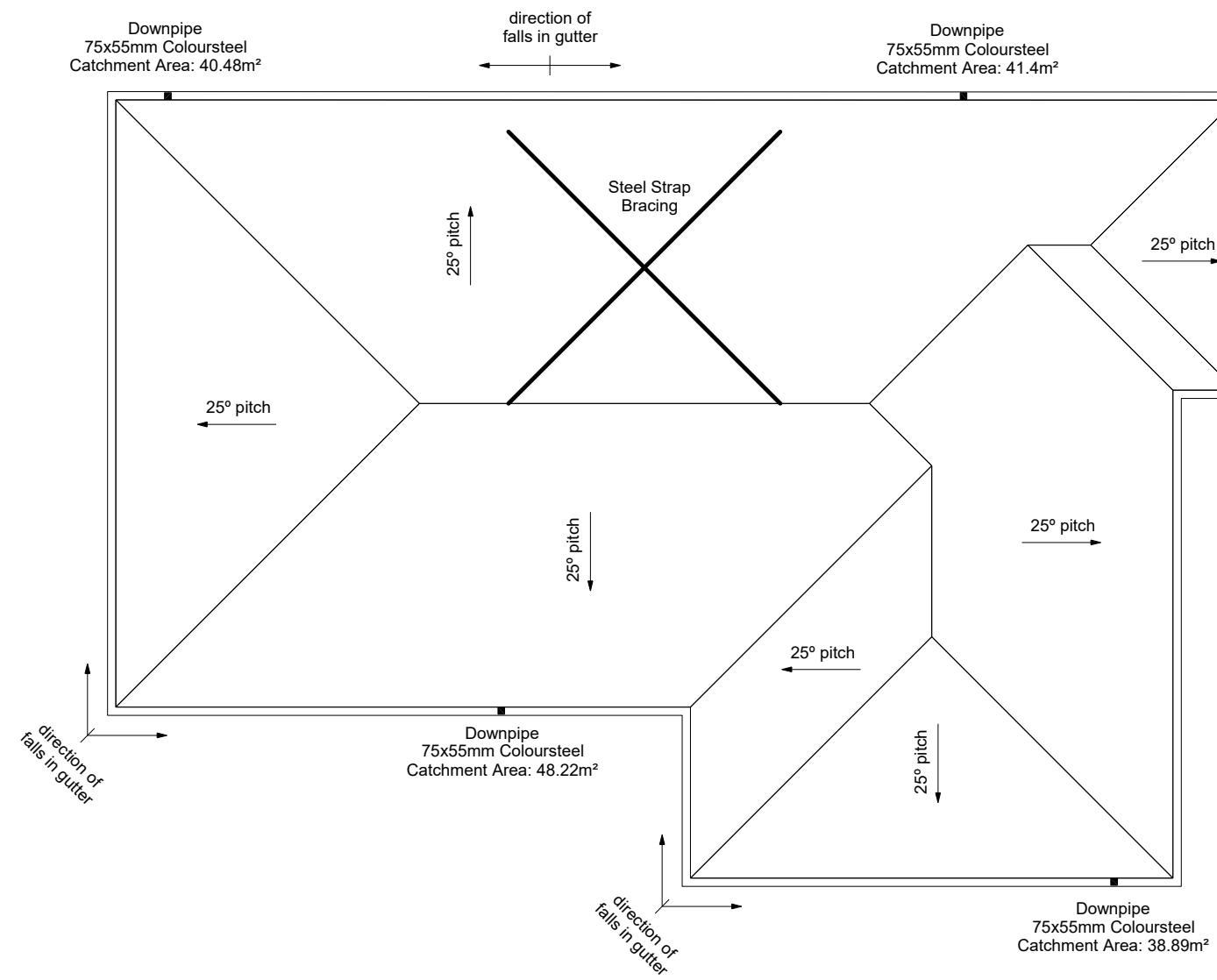
No.	Date:	Reason:
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Sheet No.: **6**
of 23 sheets

Figure 29: Pipe penetration for masonry tile
Paragraph 8.2.7



Metal Tile Penetration Detail
Scale NTS



ROOF CLADDING

Roofing : 25° Pressed Metal Tiles
Tile Battens : 50x40 SG8 H1.2 @ 370crs,
fixings 2/90 x 3.15 gun nail

ROOF PLAN NOTES

Gutter: Coloured Steel Quad Gutter
Fascia: Coloured Steel 185 Fascia
Downpipes: Colorsteel Rectangular 75x55mm
Soffits: Hardiflex 4.5mm

Underlay: Thermakraft 215 roof underlay

Roof Bracing: Diagonally opposed pair 25x1mm galv straps with 8Kn tension capacity.
After tensioning strap, fix to each rafter with 2/ 60x3.15mm nails.
Fold down strap and fix with 3/ 60x3.15mm nails each into the top chord and into the top plate.

Downpipes: 75x55 Rectangle Colorsteel
As per NZBC E1/AS1 Table 5 75x55 down pipes can collect up to 60m² of 0-25° roof plan area.

Use Coloured steel Quad Gutter
As per NZ Metal Roof and Wall Cladding Code of Practice Version 2 section 8 the above gutter with a cross sectional area of 5550mm² can collect up to 60m² of 0-25° roof plan area. Refer to the specifications for exact calculations.

Use Lumberlock top plate fixing chart attached to the main specifications to determine top plate fixings.

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Sheet Name:
ROOF PLAN

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Sheet No.:
7
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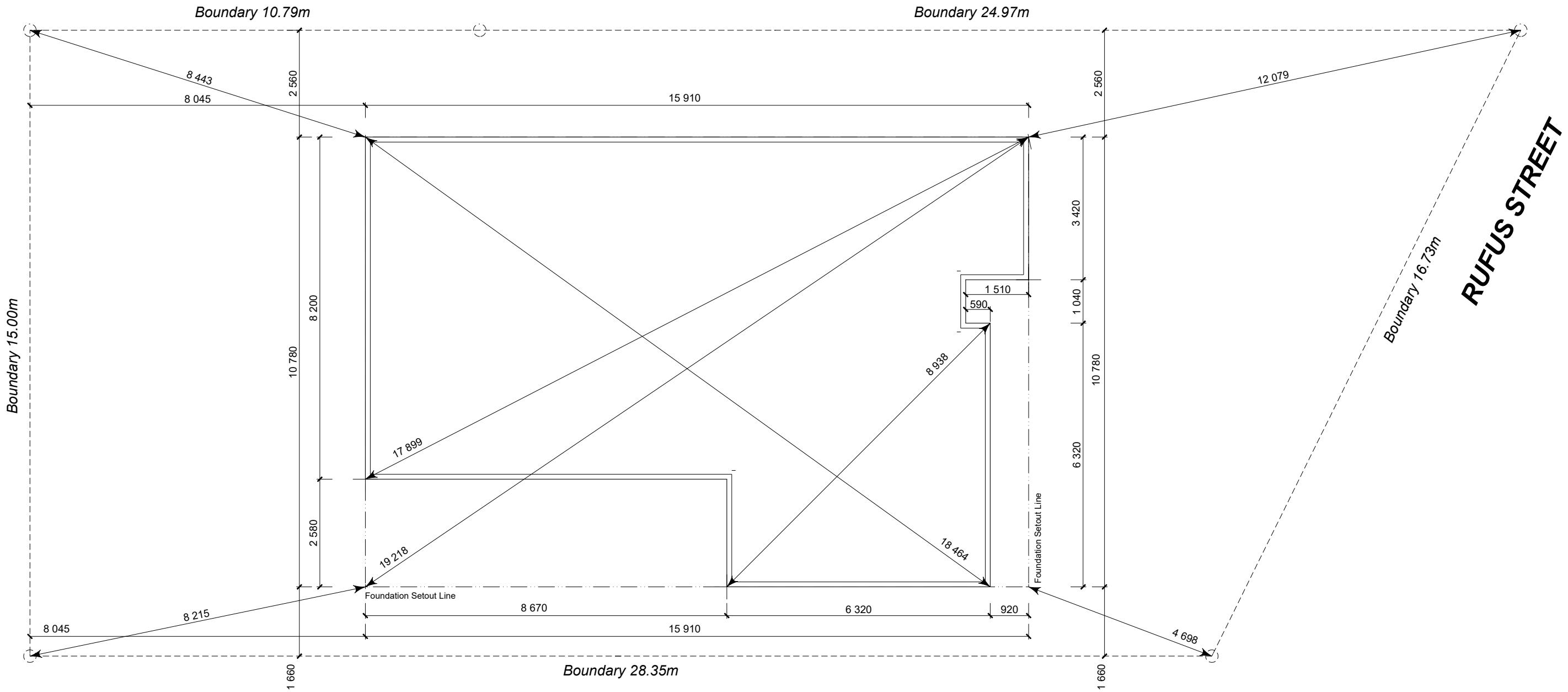
SET OUT PLAN NOTES

All dimensions over foundation face. Allow (120mm rebate) 70mm veneer & 50mm cavity, Brick to overhang foundation face by 0-20mm max as per NZBC E2/AS1.

All reinforcing is to be Ductility Class E, in accordance with NZS 4671.

All concrete to comply with NZS3604:2011 Section 4 Durability Clause 4.5.2.

These foundations are design to the findings and recommendations in the site specific Geotech report.



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SETOUT DIMENSIONS

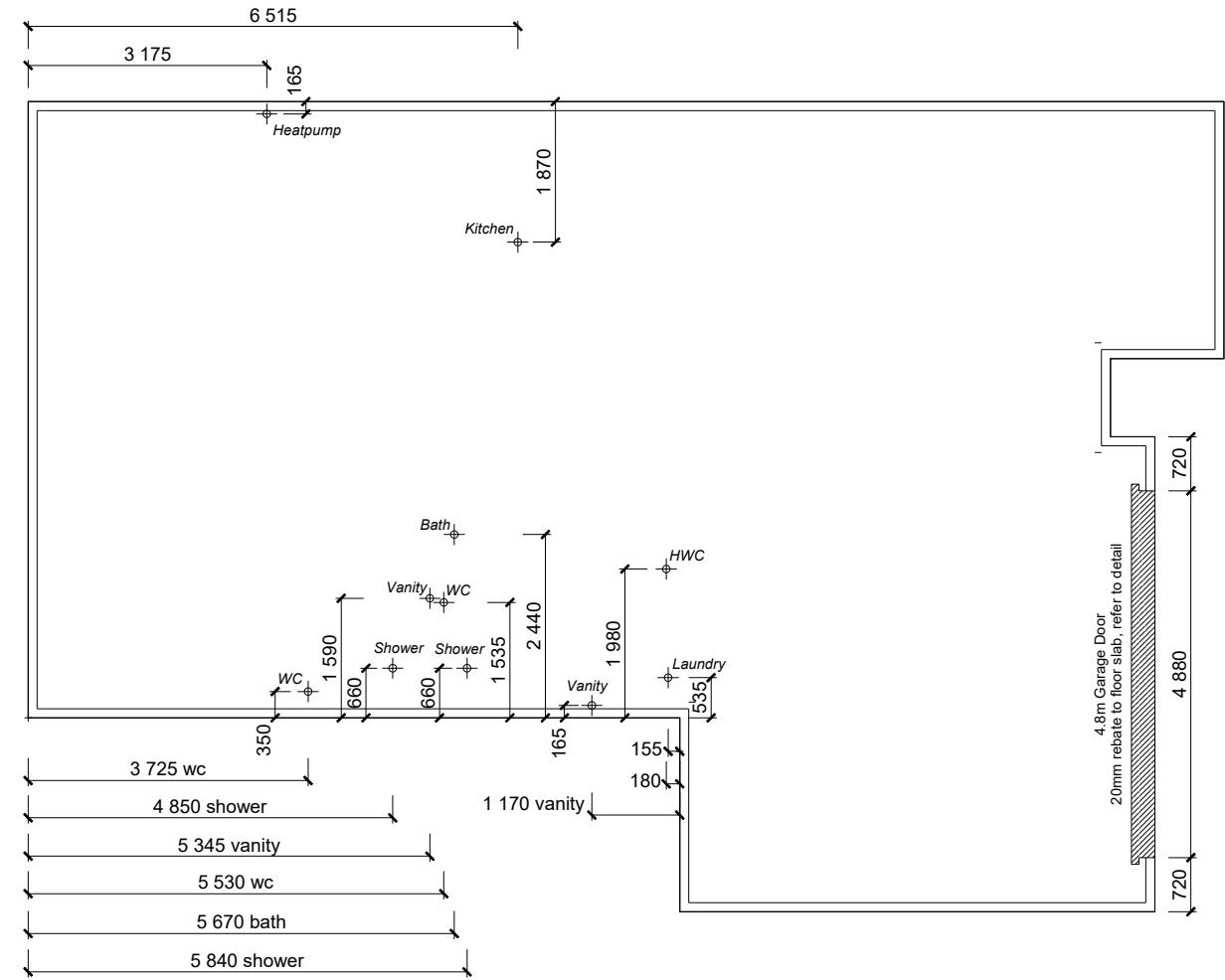
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8
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**FFL +1.565m
(+225mm min above natural ground)
Provide site scrape to 1.340m where needed**

**United Steel [Wireplus]
SE62Plus to entire slab**



FOUNDATION PLAN NOTES
All dimensions over foundation face. Allow (120mm rebate) 70mm veneer & 50mm cavity. Brick to overhang foundation face by 0-20mm max as per NZBC E2/AS1.
W/C location indicated on plan has assumed a 140mm offset from internal frame line, please consult manufacturer's documentation to confirm offset.
Contractor to consult manufacturer's documentation to determine the correct location for all wastes positioned through floor slabs.
Earth bar to be bonded to the reinforcing mesh
Refer to Truss design for exact location of slab thickening.
All reinforcing is to be Ductility Class E, in accordance with NZS 4671.
All concrete to comply with NZS3604:2011 Section 4 Durability Clause 4.5.2.
These foundations are design to the findings and recommendations in the site specific Geotech report.

AREA TO PERIMETER RATIO
Foundation Area: 146.69m²
Perimeter: 52.30m
Ratio: 2.80

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FOUNDATION PLAN
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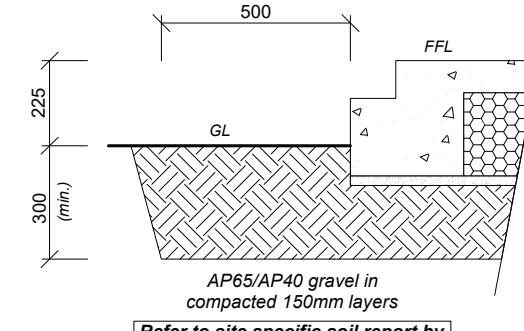
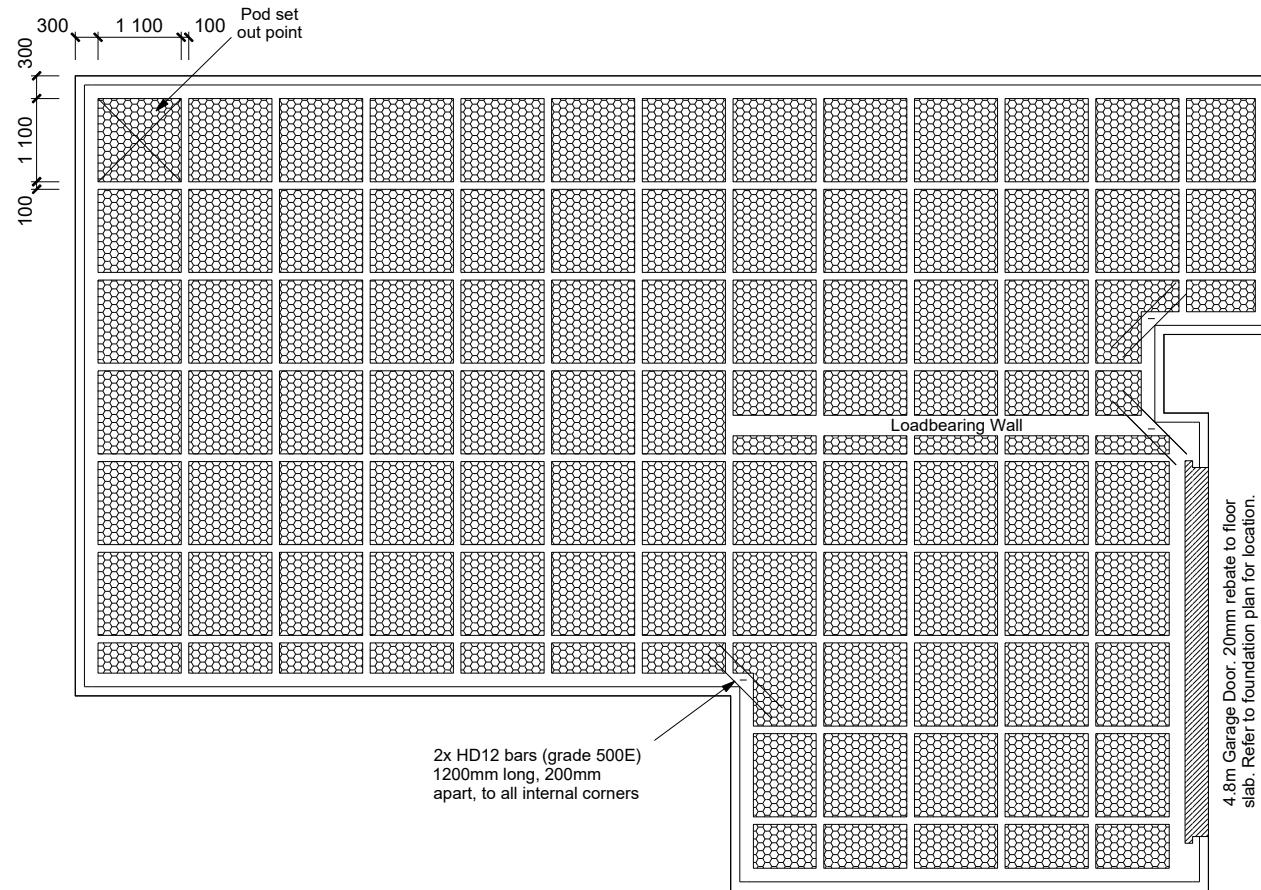
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9

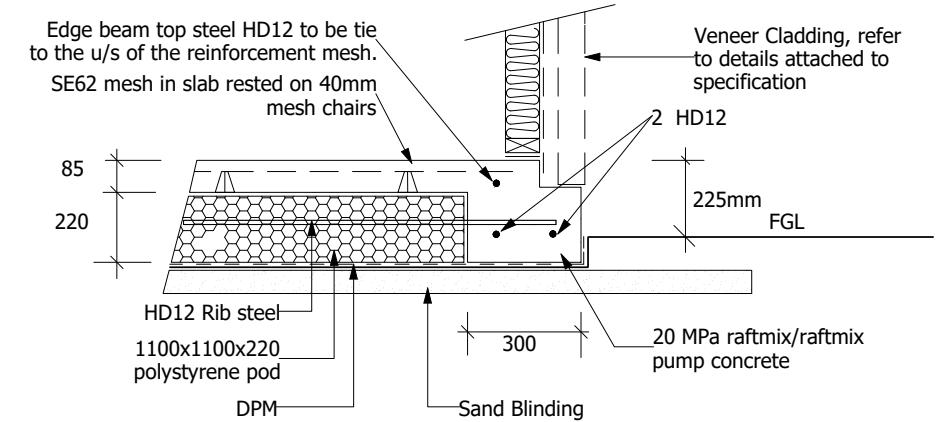
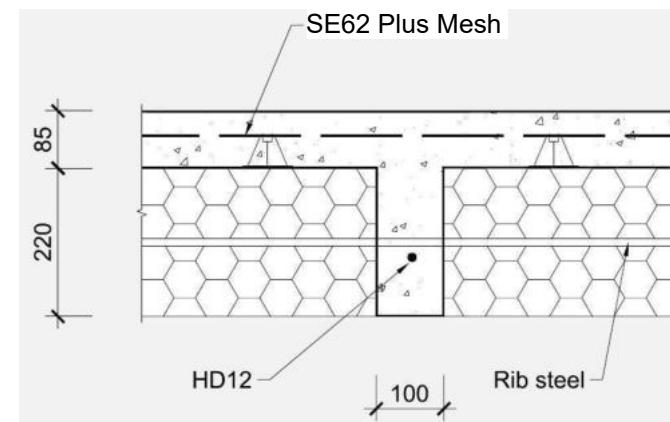
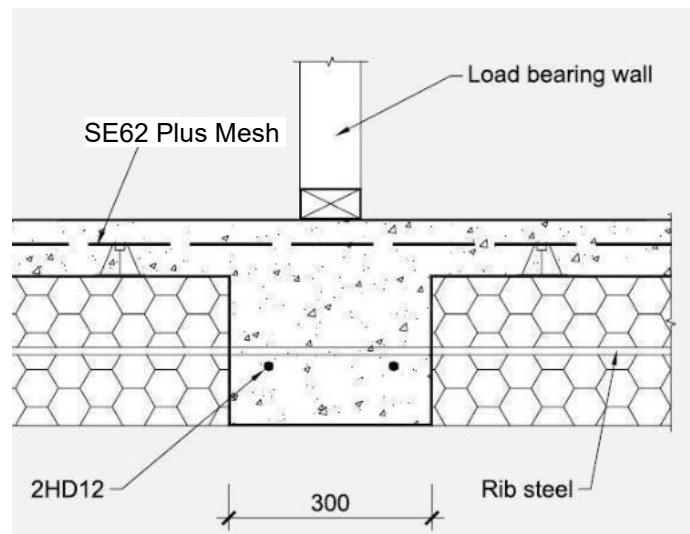
of 23 sheets

United Steel [Wireplus]
SE62Plus to entire slab

**TC1 Firth RaftMix Concrete foundation design
in accordance with the Firth RibRaft
Technical Manual & Codemark attached.**



Refer to site specific soil report by Engco Consulting for full details



**Ribraft Edgebeam Detail (Rebate)
Scale 1:20**

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Rifleman

Sheet Name:
RIBRAFT PLAN

Sales:

Drawn:

QS:

Print Date:

Scale:

L Stephens

W Xian

13-Jul-23

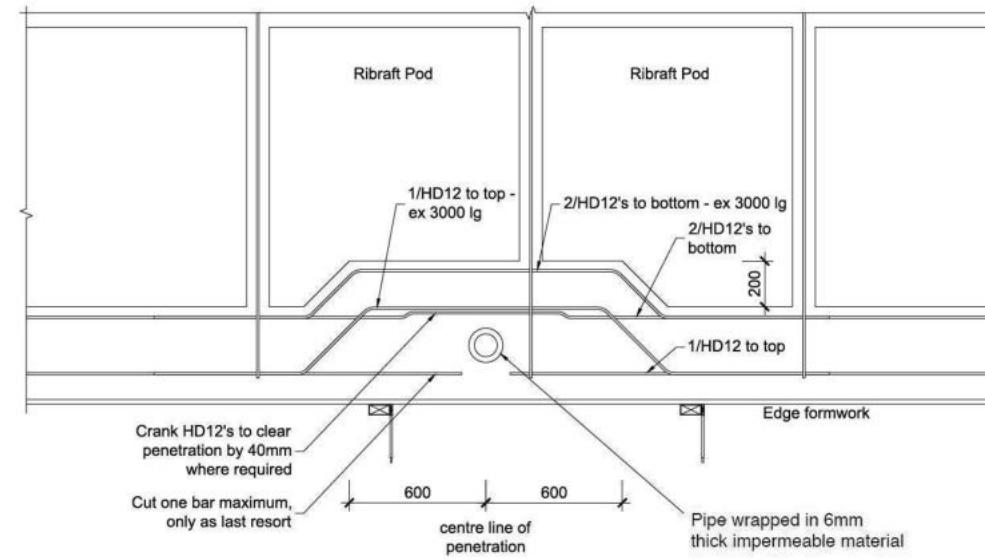
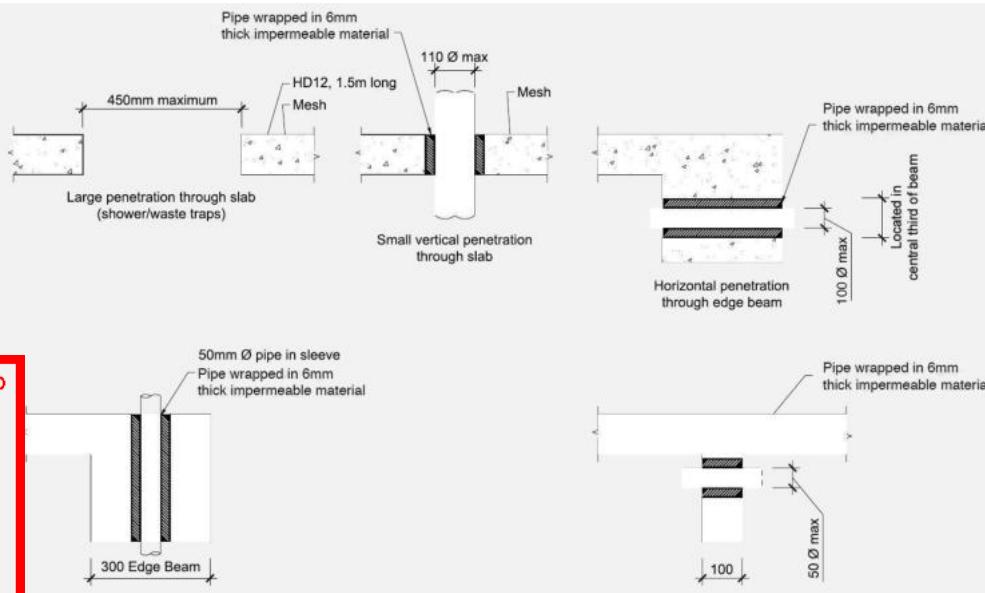
AS SHOWN @ A3

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10

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Plumbing Schedule	NZBC G13
Kitchen Sink:	Ø50mm @1:40 (3 discharge units)
Bathrooms Vanity:	Ø40mm @1:40 (1 discharge units per basin)
Shower:	Ø40mm @1:40 (2 discharge units)
Bath:	Ø40mm @1:40 (4 discharge units)
WC:	Ø100mm @1:40 (4 discharge units)
Laundry Sink:	Ø40mm @1:30 (5 discharge units)
Drainage Schedule	NZBC G13
Main Foulwater	Ø100mm @1:60
Vented Drain	Ø100mm @1:60 (1:120max)
Stormwater Drain	Ø80mm
Terminal Vent	Heatpump
Heatpump	Drain over DP
ORG	Overflow Relief Gully

Notes:
ORG to be positioned so the top of gully dish is no less than 150mm below overflow level of lowest fixture.
Sewer and Stormwater to connect to existing connections.
All plumbing and drainage to comply with NZBC G13.
All drains passing through concrete, provide sleeve or wrap in durable and flexible to allow for expansion and contraction. (as per G13/AS2 5.8.1)
HWC: Safe tray to HWC with 50mm overflow drain to exterior to comply with G12/AS1.

DRAINAGE LEGEND	
-----	Stormwater DN100mm uPVC
—	Sewer Drain DN100mm uPVC
DP	Downpipe
GT	Gully Trap
ORG	Overflow Relief Gully
TV	Terminal Vent
AAV	Air Admittance Valve
IP	Inspection Point

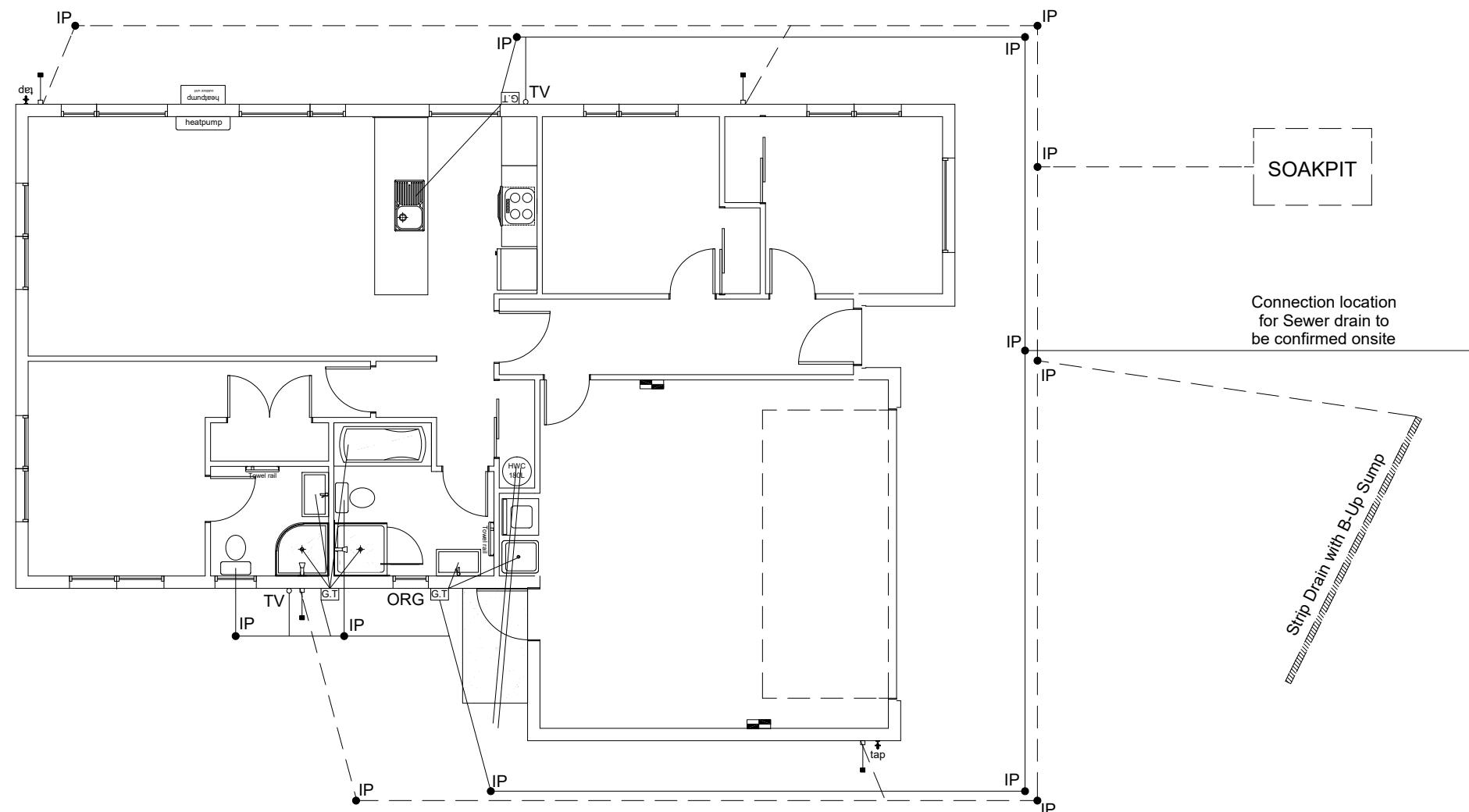
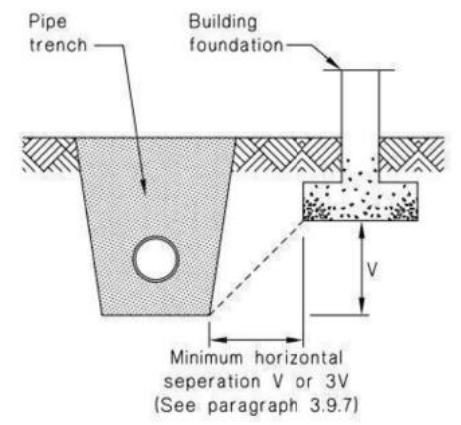


Figure 14: Relationship of Pipe Trench to Building Foundation
Paragraph 3.9.7



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Bo Cooper & Tasman Hawes
Lot 2, DP 570907
17 Rufus Street, Rolleston

Job Number:
171562

Original Plan:
Rifleman

Sheet Name:
DRAINAGE PLAN

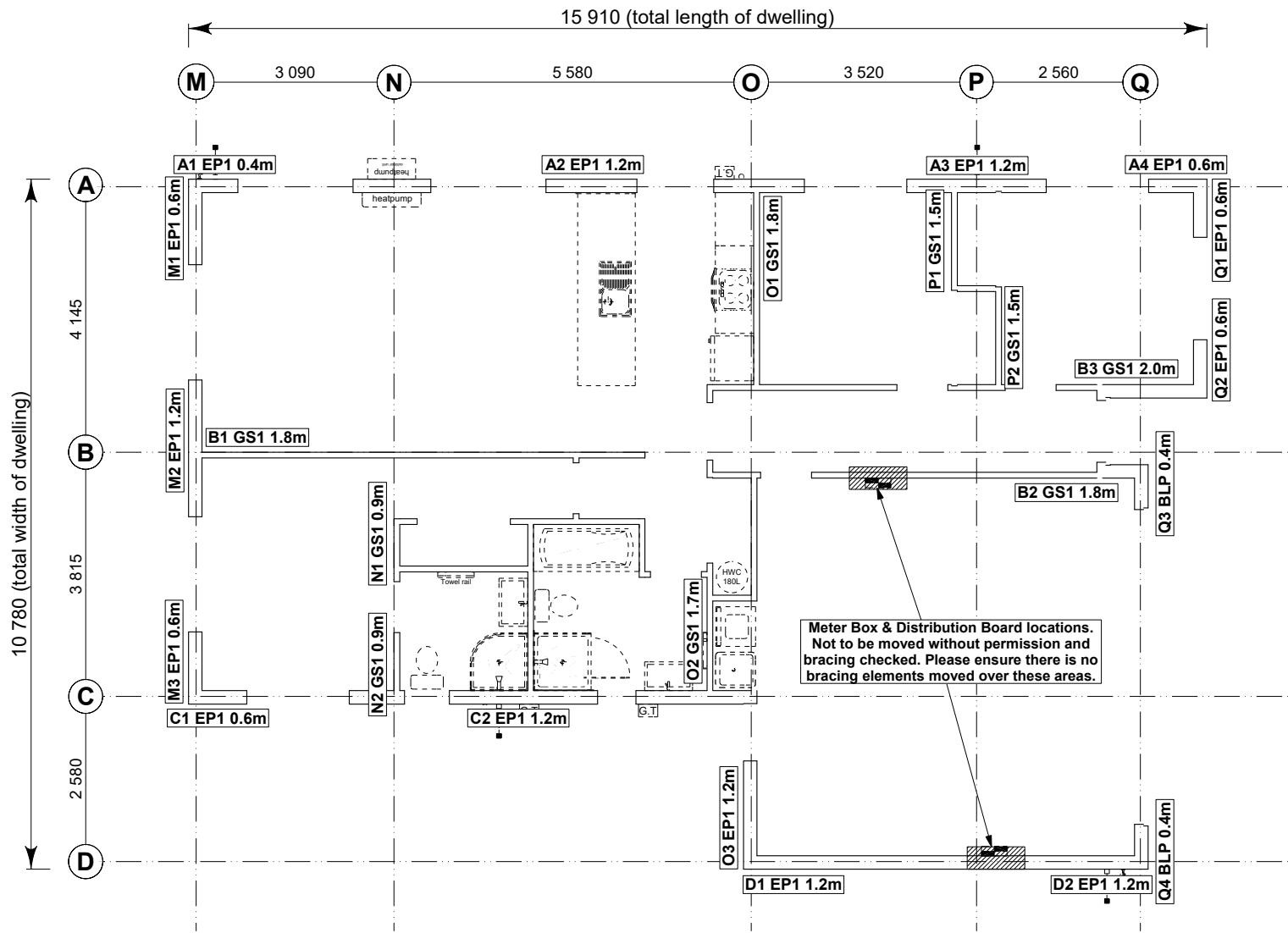
Sales: **V Bhatia** Drawn: **L Stephens** QS: **W Xian** Print Date: **13-Jul-23** Scale: **1:100 @ A3**

CONSENT PLANS

No.	Date:	Reason:
1	15-06-2023	Initial Consent Drawings

Sheet No.:
11

of 23 sheets



- 8.7.3.4**
- Each wall that contains one or more wall bracing elements shall be connected at the top plate level, either directly, or through a framing member in the line of the wall, to external walls at right angles to it. Top plate fixing(s) of the capacity in tension or compression along the line of the wall bracing element are given as follows:
- For each wall containing wall bracing elements with a total bracing capacity of not more than 125 bracing units: to at least one such external wall by a fixing as shown in figure 8.16 of 6 kN capacity;
 - For each wall containing wall bracing elements with a total bracing capacity of not more than 250 bracing units: to at least 2 external walls by fixings as shown in figure 8.16 each of 6 kN capacity;
 - For each wall containing wall bracing elements with a total bracing capacity of more than 250 bracing units: to at least 2 external walls by fixings as shown in figure 8.16 each having a rating of not less than 2.4 kN per 100 bracing units.

BRACING PLAN NOTES
Wall bracing designed in accordance with NZS 3604:2011 & GIB Ezybrace system
Refer to attached calculations.

Bracing Designed to:
Wind: High
Earthquake: 2

BRACING LEGEND

[A]	Brace Line Label
[M1 EP1 1.2m]	Brace Length
[A1 EP1 0.6m]	Brace Type
[A1 GS1 1.8m]	Brace Number

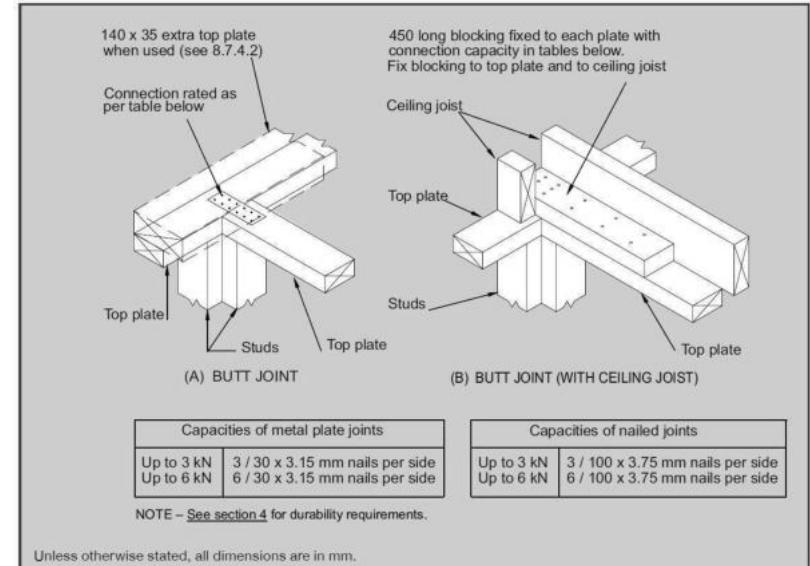


Figure 8.16 - Connecting top plates to external walls at right angles – Walls containing bracing (see 8.7.3.4)

Single Level Along Resistance Sheet

Job Name: Cooper & Hawes

Wind EQ

Demand	
540	868
Achieved	

Line	Element	Length (m)	Angle (degrees)	Stud Ht. (m)	Type	Supplier	Wind (BUs)	EQ (BUs)	1171	1253
a	1	0.40		2.4	EP1 0.4	Ecopy®	32	38		
	2	1.20		2.4	EP1 1.2	Ecopy®	144	162		
	3	1.20		2.4	EP1 1.2	Ecopy®	144	162		
	4	1.20		2.4	EP1 0.6	Ecopy®	114	126		
										434 OK 488 OK
b	1	1.80		2.4	GS1-N	GIB®	124	108		
	2	1.80		2.4	GS1-N	GIB®	124	108		
c	1	0.60		2.4	EP1 0.6	Ecopy®	57	63		
	2	1.20		2.4	EP1 1.2	Ecopy®	144	162		
										201 OK 225 OK
d	1	1.20		2.4	EP1 1.2	Ecopy®	144	162		
	2	1.20		2.4	EP1 1.2	Ecopy®	144	162		
										288 OK 324 OK

Single Level Across Resistance Sheet

Job Name: Cooper & Hawes

Wind EQ

Demand	
757	868
Achieved	

Line	Element	Length (m)	Angle (degrees)	Stud Ht. (m)	Type	Supplier	Wind (BUs)	EQ (BUs)	1175	1181
m	1	0.60		2.4	EP1 0.6	Ecopy®	57	63		
	2	1.20		2.4	EP1 1.2	Ecopy®	144	162		
	3	0.60		2.4	EP1 0.6	Ecopy®	57	63		
n	1	0.90		2.4	GS1-N	GIB®	57	53		
	2	0.90		2.4	GS1-N	GIB®	57	53		
o	1	1.80		2.4	GS1-N	GIB®	124	108		
	2	1.70		2.4	GS1-N	GIB®	117	102		
	3	1.20		2.4	EP1 1.2	Ecopy®	144	162		
p	1	1.50		2.4	GS1-N	GIB®	104	90		
	2	1.50		2.4	GS1-N	GIB®	104	90		
q	1	0.60		2.4	EP1 0.6	Ecopy®	57	63		
	2	0.60		2.4	EP1 0.6	Ecopy®	57	63		
	3	0.40		2.4	BLP-H	GIB®	48	54		
	4	0.40		2.4	BLP-H	GIB®	48	54		
										211 OK 234 OK

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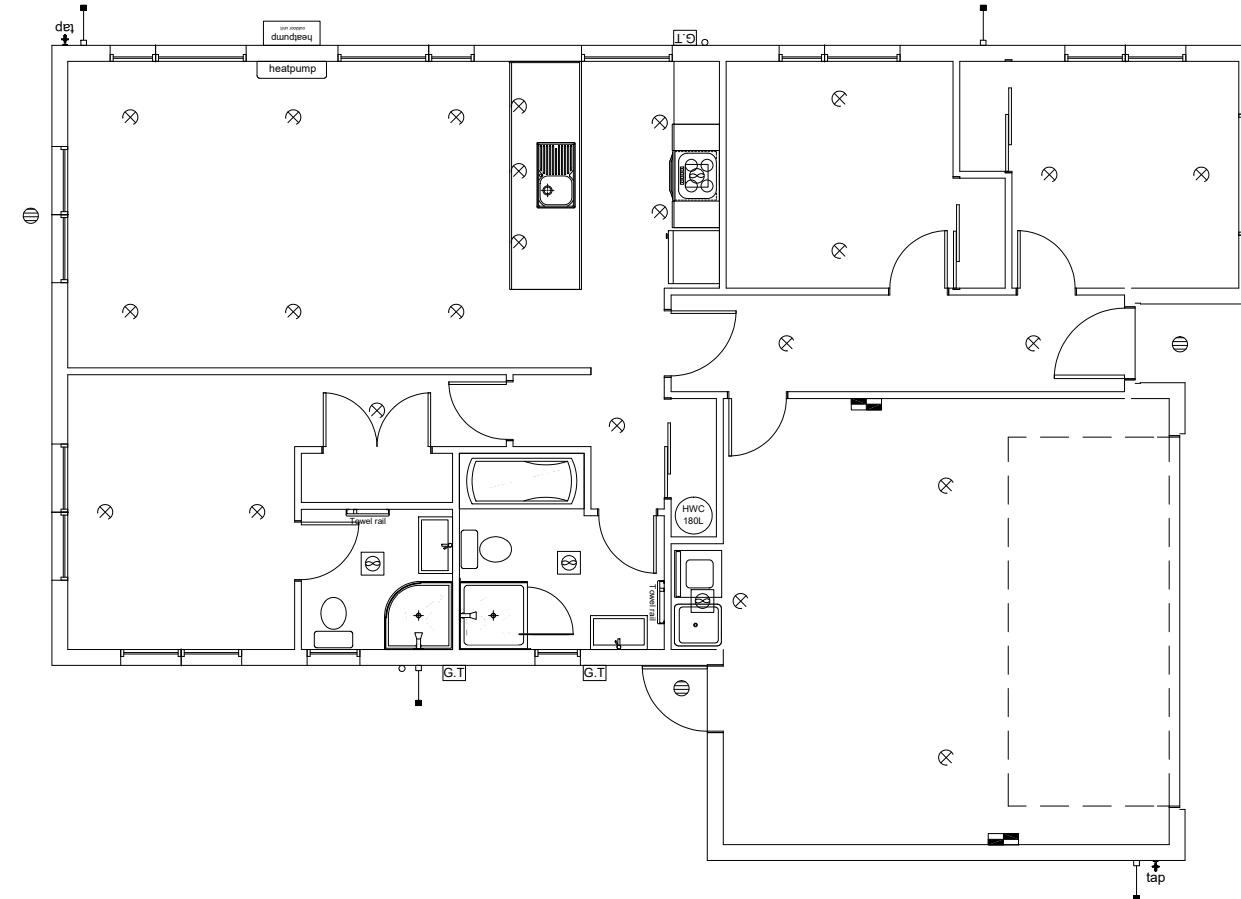
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Tasman Hawes
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17 Rufus Street, Rolleston

Job Number: 171562
Original Plan: Rifleman
Sheet Name: BRACING PLAN
Sales: V Bhatia Drawn: L Stephens QS: W Xian Print Date: 13-Jul-23 Scale: 1:100 @ A3

CONSENT PLANS
No. Date: Reason:
1 15-06-2023 Initial Consent Drawings

Sheet No.: 12
of 23 sheets



LEGEND	
Refer to Electrical Section in Specification for further details	
○	Ceiling Pan
⊗	CA Approved Down Light
⊕	Exterior Bulkhead Light
◐	Exterior Wall Light
—	Fluorescent Double
↶	Light Switch
↶	Two Way Light Switch
↶	Single Power Socket
↶	Double Power Socket
◎	Outside Waterproof Plug
▼	Telephone/Data Outlet
[TV]	TV Jack
[SKY]	Sky Connection
■	Bathroom Heater
■	Bathroom Extractor/Light

Electrical Plan is indicative only and is to be confirmed onsite with electrician and client

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Bo Cooper & Tasman Hawes
Lot 2, DP 570907
17 Rufus Street, Rolleston

Job Number: **171562** Original Plan: **Rifleman** Sheet Name: **LIGHTING PLAN**
Sales: V Bhatia Drawn: L Stephens QS: W Xian Print Date: 13-Jul-23 Scale: 1:100 @ A3

CONSENT PLANS

No.	Date:	Reason:
1	15-06-2023	Initial Consent Drawings

Sheet No.: **13**
of 23 sheets

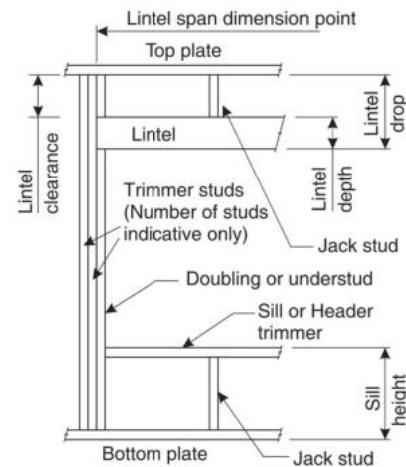
LINTEL FIXING SCHEDULE

ALTERNATIVE TO TABLE 8.14 & FIGURE 8.12

NZS 3604:2011

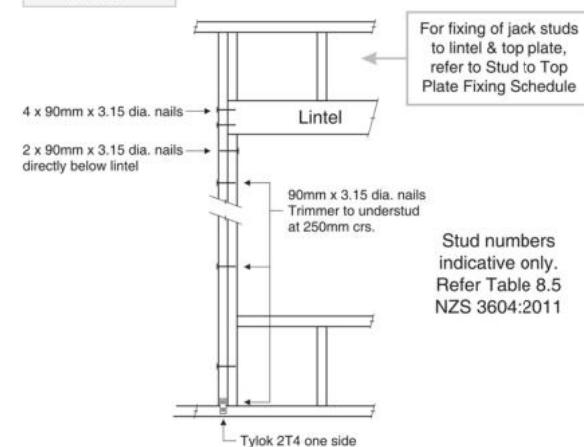
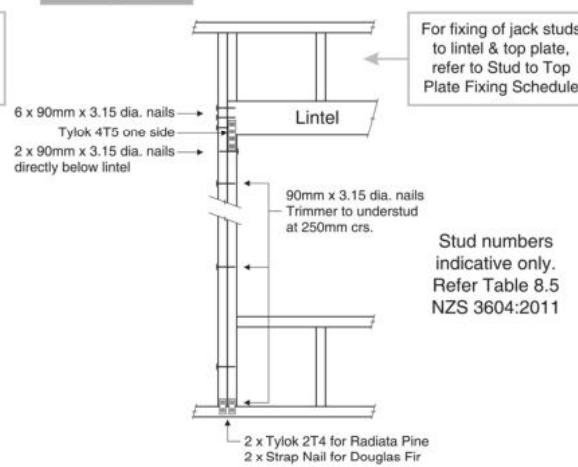
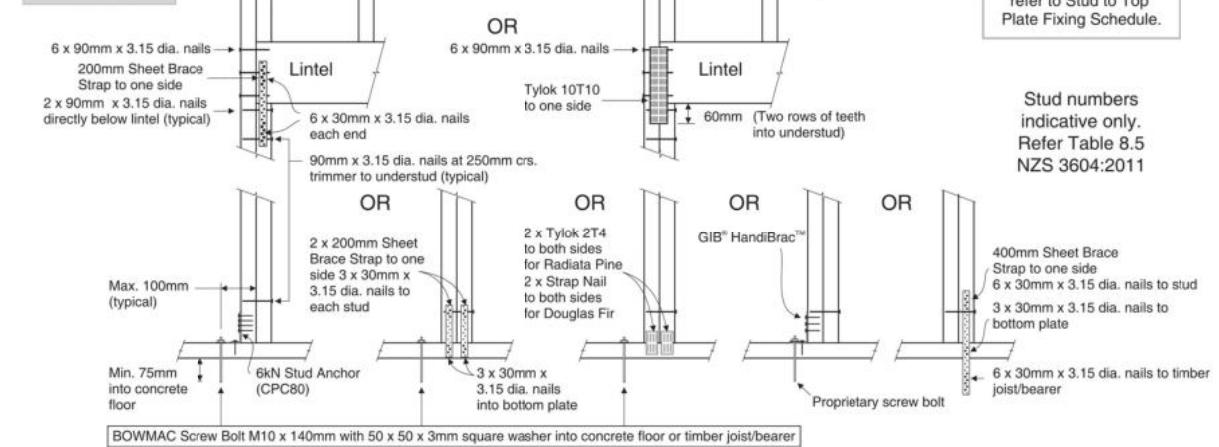
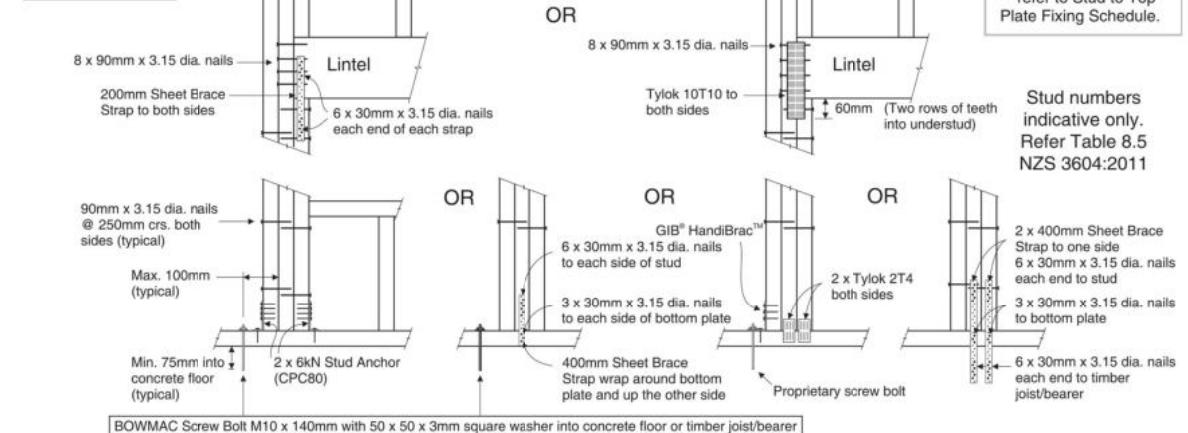
NOTE:

- All fixings are designed for vertical loads only. Dead loads include the roof weight and standard ceiling weight of 0.20kPa.
- Refer to Table 8.19 NZS 3604:2011 for nailing schedule to resist horizontal loads.
- These fixings assume the correct choice of rafter/truss to top plate connections have been made.
- All fixings assume bottom plate thickness of 45mm maximum. Note: TYLOK options on timber species.
- Wall framing arrangements under girder trusses are not covered in this schedule.
- All timber selections are as per NZS 3604:2011.

DEFINITIONS

Roof Tributary Area	Light Roof			Heavy Roof		
	Wind Zone			Wind Zone		
	L, M, H	VH	EH	L, M, H	VH	EH
8.6m ²	G	G	H	G	G	H
11.6m ²	G	H	H	G	G	H
12.1m ²	G	H	H	G	H	H
15.3m ²	H	H	-	G	H	H
19.1m ²	H	-	-	G	H	-
20.9m ²	H	-	-	H	H	-
21.8m ²	H	-	-	H	-	-
34.3m ²	-	-	-	H	-	-

- NOTES:**
- Roof Tributary Area = approx. 1/2 x (Total roof area on girder and rafter trusses supported by lintel)
 - Assumed girder truss is at mid-span or middle third span of lintel
 - Use similar fixings for both ends of lintel
 - All other cases require specific engineering design

LINTEL FIXING OPTIONS**TYPE E**
1.4kN**TYPE F**
4.0kN**TYPE G**
7.5kN**TYPE H**
13.5kN

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Bo Cooper & Tasman Hawes
Lot 2, DP 570907
17 Rufus Street, Rolleston

Job Number:
171562

Original Plan:
Rifleman

Sheet Name:
FRAMING DETAILS

CONSENT PLANS

No.	Date:	Reason:
1	15-06-2023	Initial Consent Drawings

Sheet No.:
14

of 23 sheets

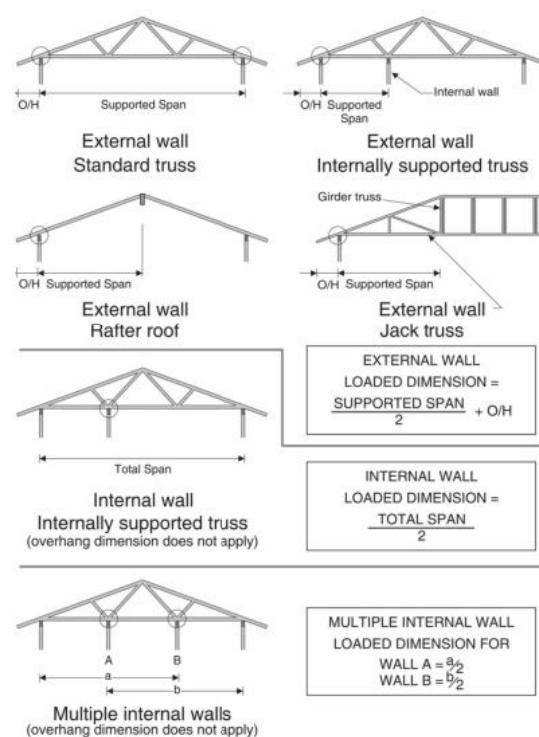


STUD TO TOP PLATE FIXING SCHEDULE ALTERNATIVE TO TABLE 8.18 NZS 3604:2011

NOTE:

- ★ All fixings are designed to resist vertical loads only. Dead loads include the roof weight and standard ceiling weight of 0.20kPa.
- ★ Refer to Table 8.19 NZS 3604:2011 for nailing schedule to resist lateral loads.
- ★ These fixings assume the correct choice of rafter/truss to top plate connections have been made.
- ★ For gable end walls where the adjacent rafter/truss is located within 1200mm and with a maximum verge overhang of 750mm, select stud to top plate fixing using a loaded dimension of 1.5m.
- ★ All fixings assume top plate thickness of 45mm maximum.
- ★ Wall framing arrangements under girder trusses are not covered in this schedule.
- ★ All timber selections are as per NZS 3604:2011.

LOADED DIMENSION DEFINITION



FIXING SELECTION CHART

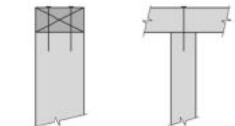
(Suitable for walls supporting roof members at 600, 900 or 1200mm crs.)
Wind Zones L, M, H, VH, EH, as per NZS 3604:2011

Loaded Dimension (m) Stud Centres			Light Roof Wind Zone						Heavy Roof Wind Zone					
300mm	400mm	600mm	L	M	H	VH	EH	L	M	H	VH	EH		
3.0	2.3	1.5	A	A	B	B	B	A	A	B	B	B		
4.0	3.0	2.0	A	A	B	B	B	A	A	B	B	B		
5.0	3.8	2.5	A	B	B	B	B	A	A	B	B	B		
6.0	4.5	3.0	A	B	B	B	B	A	A	B	B	B		
7.0	5.3	3.5	A	B	B	B	B	A	A	B	B	B		
8.0	6.0	4.0	A	B	B	B	B	A	A	B	B	B		
9.0	6.8	4.5	B	B	B	B	B	A	A	B	B	B		
10.0	7.5	5.0	B	B	B	B	B	A	A	B	B	B		
11.0	8.3	5.5	B	B	B	B	B	A	A	B	B	B		
12.0	9.0	6.0	B	B	B	B	B	A	A	B	B	B		

FIXING OPTIONS

FIXING TYPE A 0.7kN

2 x 90mm x 3.15 dia. plain steel wire nails driven vertically into stud.

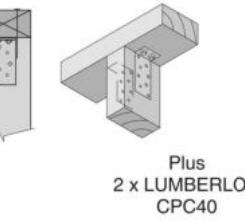
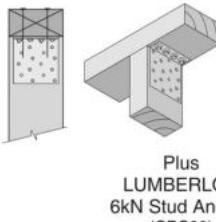


FIXING TYPE B 4.7kN

CHOOSE ANY OF THE 3 OPTIONS BELOW

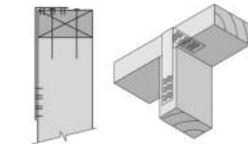
2 x 90mm x 3.15 dia. plain steel wire nails driven vertically into stud.

2 x 90mm x 3.15 dia. plain steel wire nails driven vertically into stud.



Recommended for internal wall options to avoid lining issues

2 x 90mm x 3.15 dia. plain steel wire nails driven vertically into stud.



Plus
LUMBERLOK
Stud Strap
(one face only)

NOTE:

To calculate the number of B type fixings required, divide the wall length by the stud centres, add 1 to this figure and locate this number of fixings as evenly as possible along the wall length. This figure includes the start and end studs in each wall length.

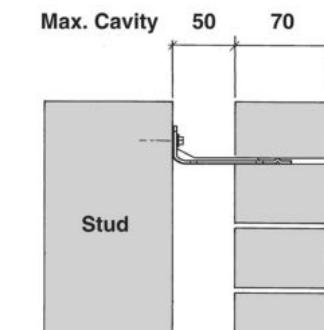


SCAN FOR
INSTALLATION
VIDEO

<https://vimeo.com/117353604>

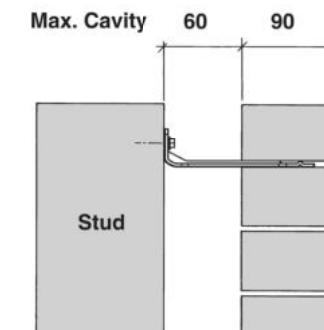
08/2017

70 SERIES BRICK



Screw Tie Short
(85mm)

90 SERIES BRICK



Screw Tie Long
(105mm)

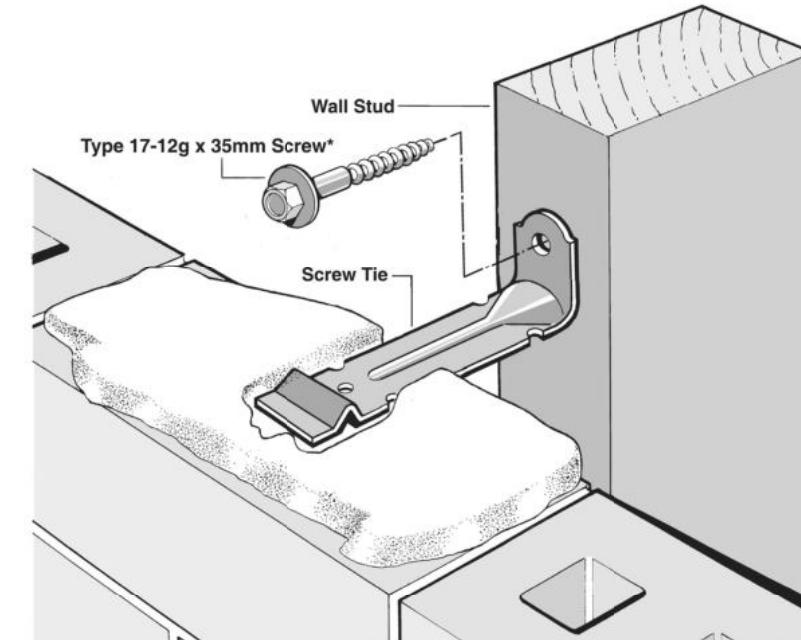
- ★ All brick work must be constructed in accordance with NZS 4210:2001 Masonry Construction: Materials and Workmanship. Screw Ties must be applied accordingly and are not to be hammered into timber framing.
- ★ Water shedding shoulder prevents transfer of the moisture from tie to building.
- ★ Nail hole for Oamaru Stone.
- ★ Angled neck encourages increased tie embedment in mortar.

Material: 1.2mm NZCC-SD Hot Dip Galvanised Steel
Screws: Type 17-12g x 35mm Hex Head Hot Dip Galvanised Screws
Packed: 250 ties per box including screws

Also available in Stainless Steel Grade 316 for Zone D.

SCREW TIES FOR BRICK VENEER FIXING

- ★ Medium duty (EM) classification
- ★ Tested by BRANZ in accordance with AS/NZS 2699.1:2000
- ★ BRANZ test report No. ST0725 November 2007
- ★ Suitable for both 'dry bedding' and encapsulated mortar
- ★ Hot Dip Galvanised ties for Zones B & C, and Stainless Steel Grade 316 ties for Zone D meet NZS 3604:2011 Sect. 4 Durability
- ★ Available in 85mm and 105mm sizes



*NOTE:
Use longer screws for fixing through Rigid Air Barrier (RAB). Maintain 35mm embedment in studs.

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Job Number:
171562

Original Plan:
Rifleman

Sheet Name:
FRAMING DETAILS

Sales: V Bhatia Drawn: L Stephens QS: W Xian Print Date: 13-Jul-23 Scale: NTS @ A3

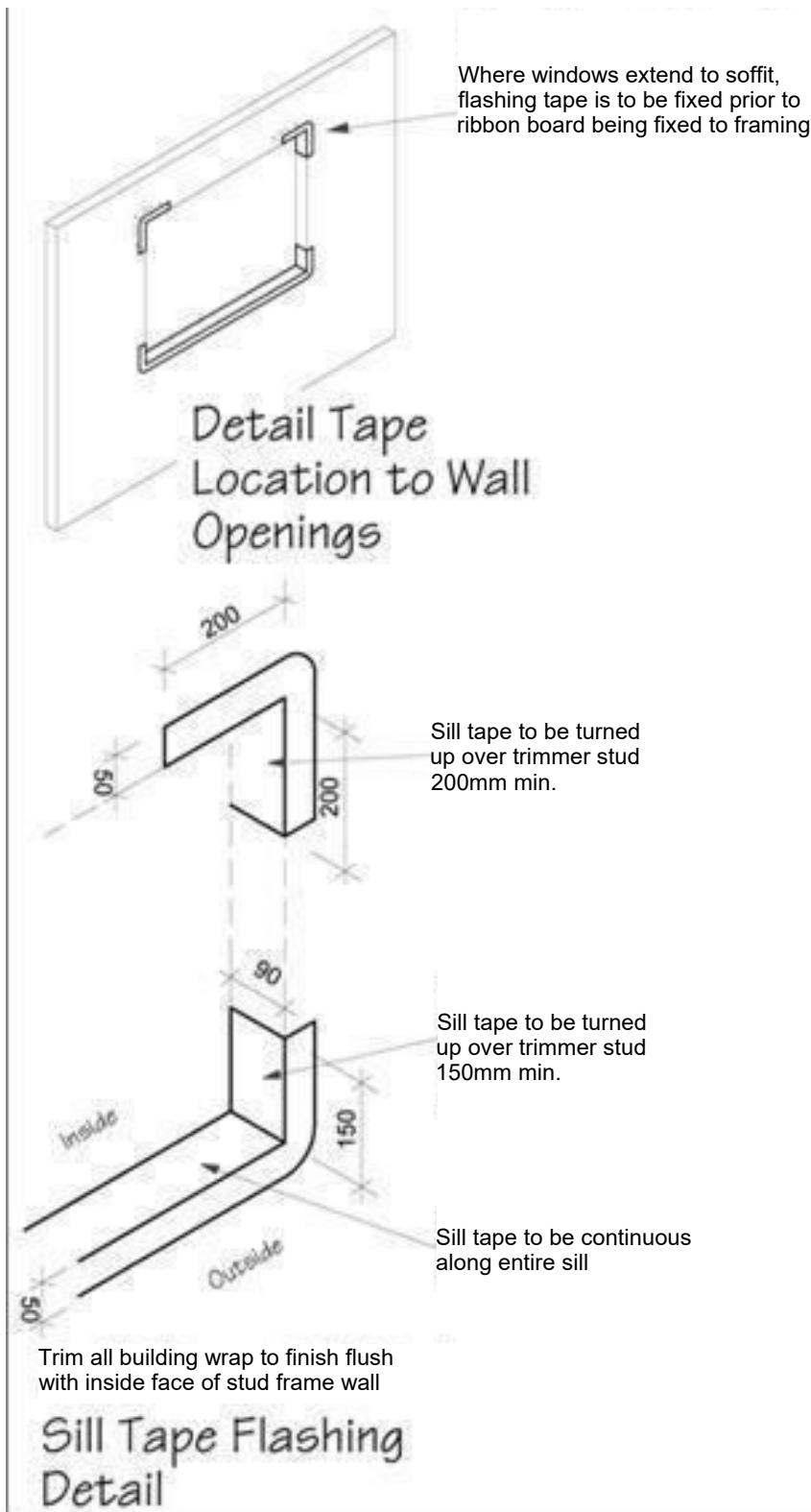
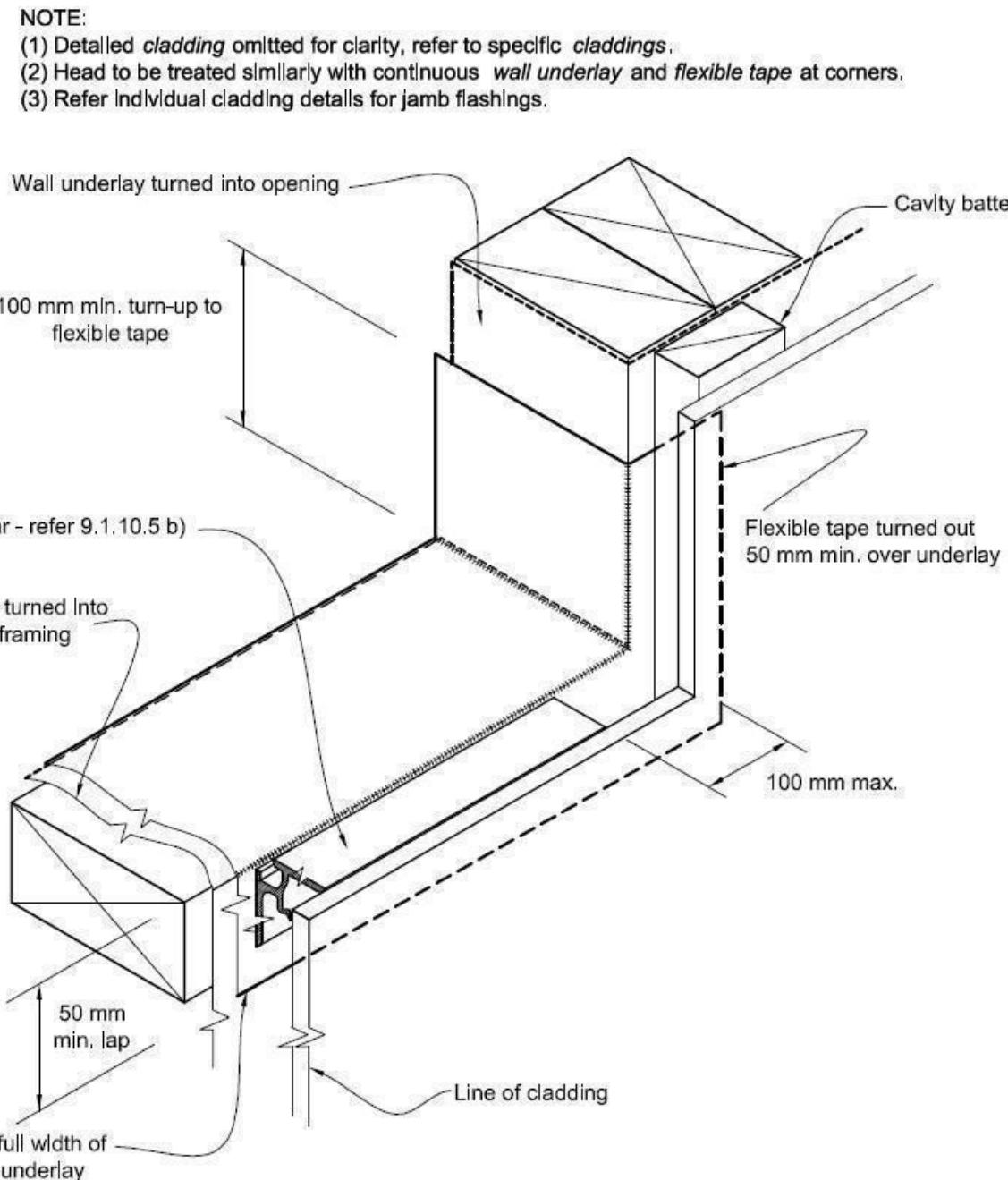
CONSENT PLANS

No. Date: Reason:
1 15-06-2023 Initial Consent Drawings

Sheet No.:
15

of 23 sheets

Figure 72B: General window and door opening with drainage cavity
Paragraphs 9.1.5, 9.1.9.3, 9.1.10.2, Figures 73C, 76, 85, 86, 91, 99, 116 and 128



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Job Number:	Original Plan:	Sheet Name:	CONSENT PLANS		
171562	Rifleman	CONSTRUCTION DETAILS	No.	Date:	Reason:
Sales: V Bhatia	Drawn: L Stephens	QS: W Xian	1	15-06-2023	Initial Consent Drawings

Sheet No.:
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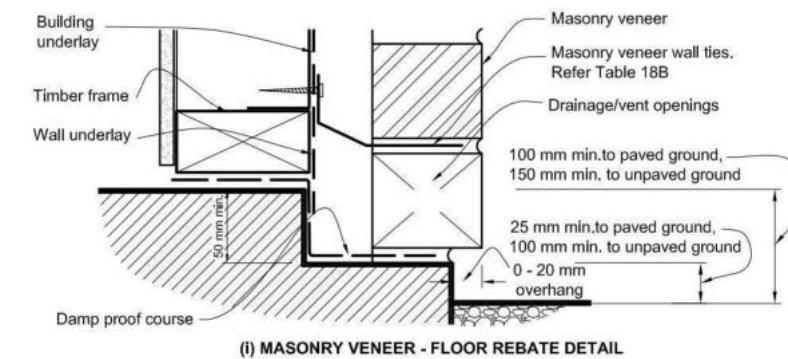
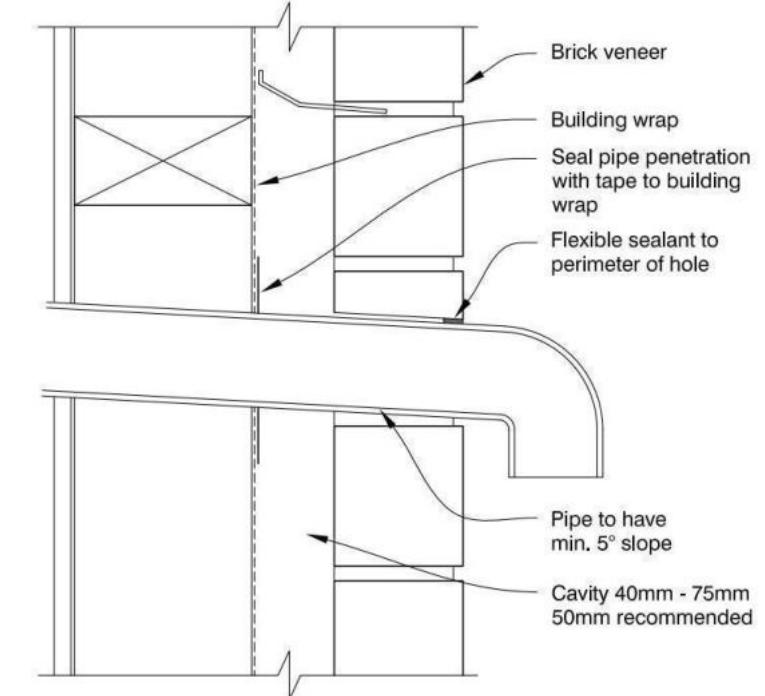
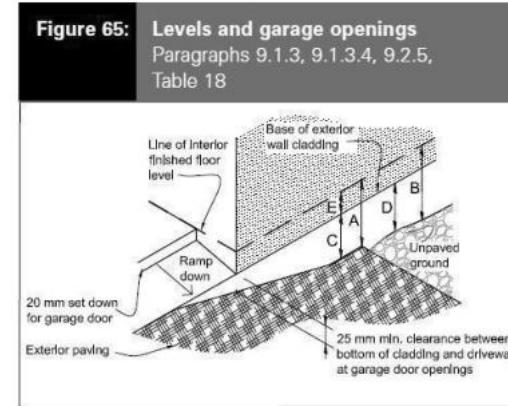
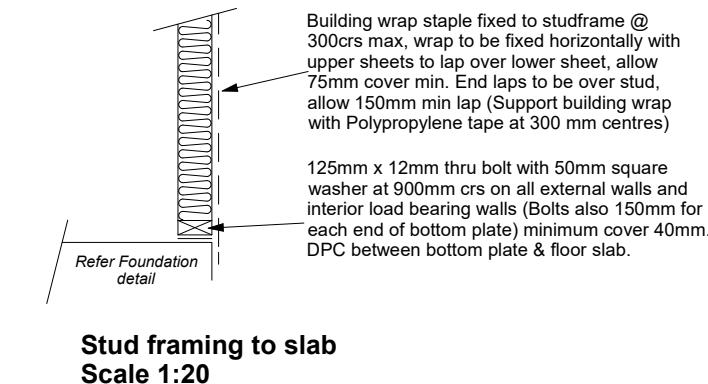
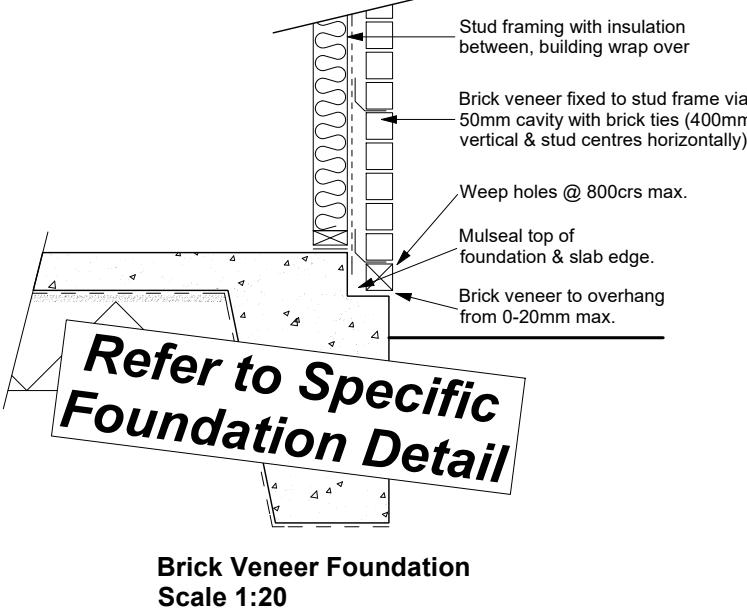
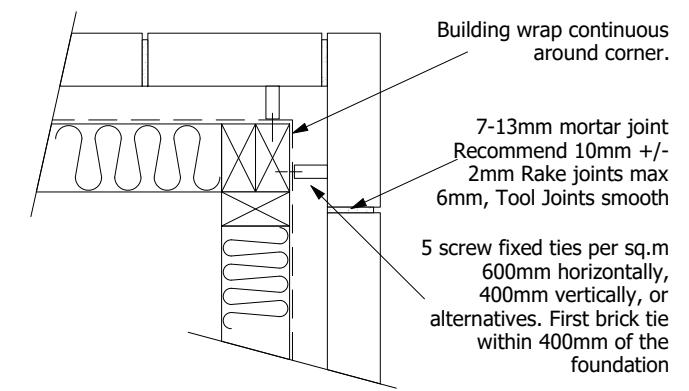
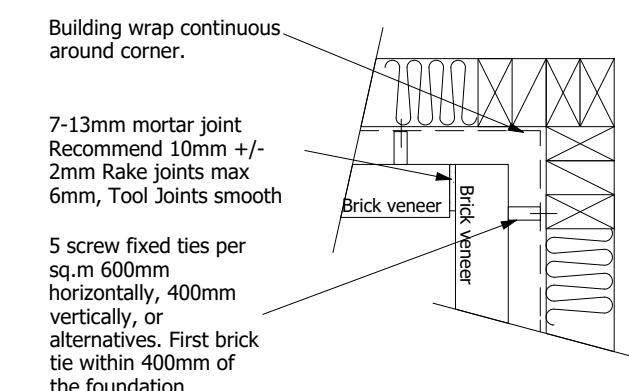
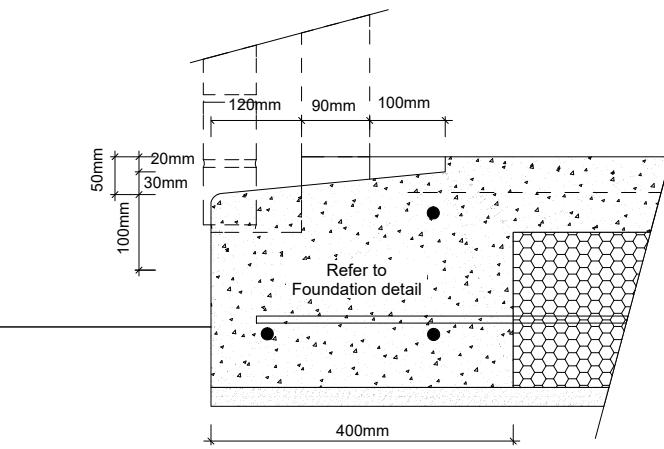


Table 18: Minimum clearances
Paragraphs 9.1.3, 9.1.3.1, 9.1.3.2, 9.1.3.3, 9.1.3.4, 9.1.3.5 and 9.2.7

Minimum clearances (mm)	Masonry veneer	Other claddings				
		A	B	C	D	E
Concrete slab	100 150	150	225	100	175	50
Timber floor Refer Note 1)		100	175	502)		

NOTE: 1) Refer to NZS 3604 for requirements.
2) Cladding to extend minimum 50 mm below bearer or lowest part of timber floor framing.



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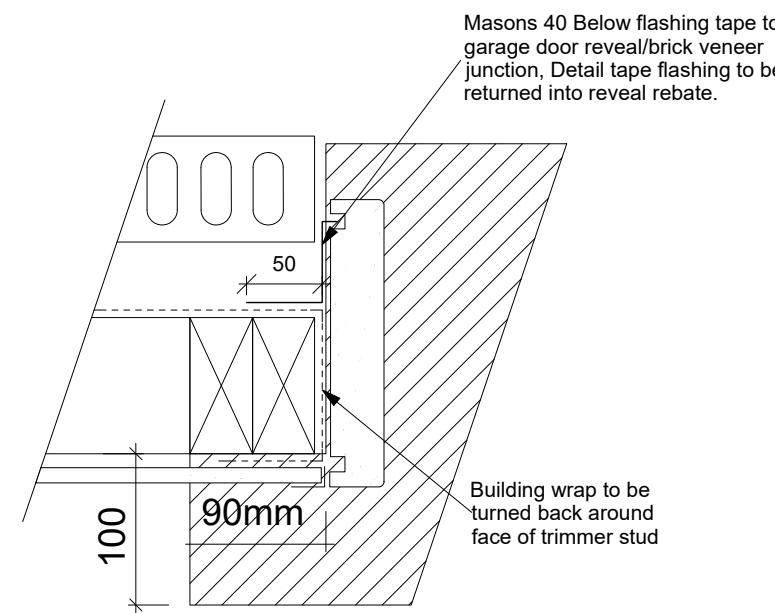
Original Plan:
Rifleman

Sheet Name:
CONSTRUCTION DETAILS

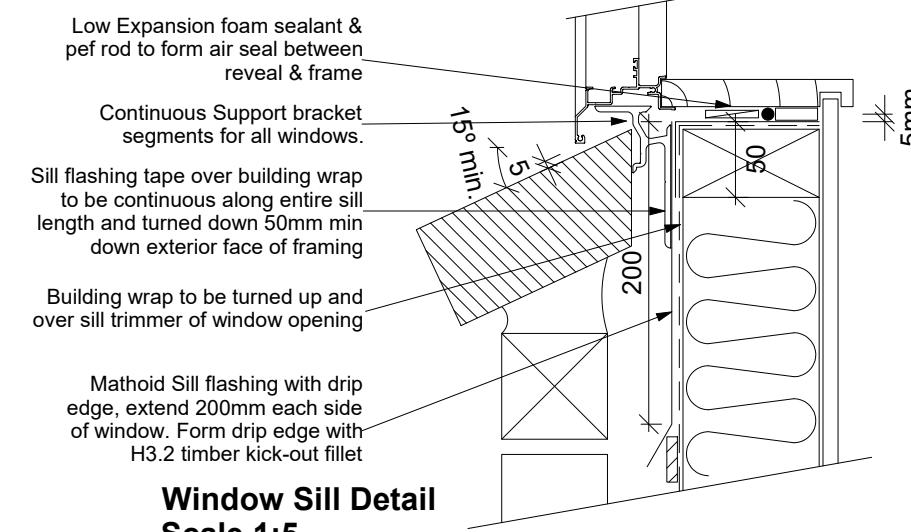
CONSENT PLANS

No.	Date:	Reason:
1	15-06-2023	Initial Consent Drawings

Sheet No.:
17
of 23 sheets



Garage Door Jamb Detail
Scale 1:5

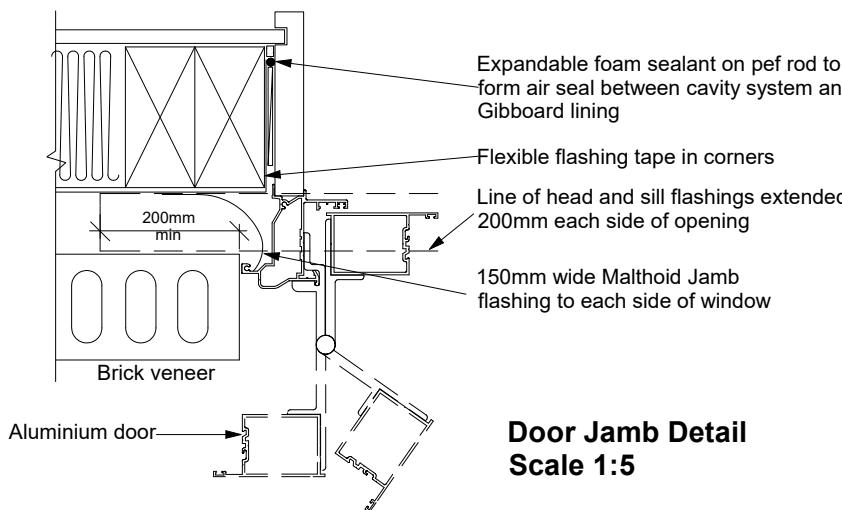


9.1.10.8 Attachments for windows and doors

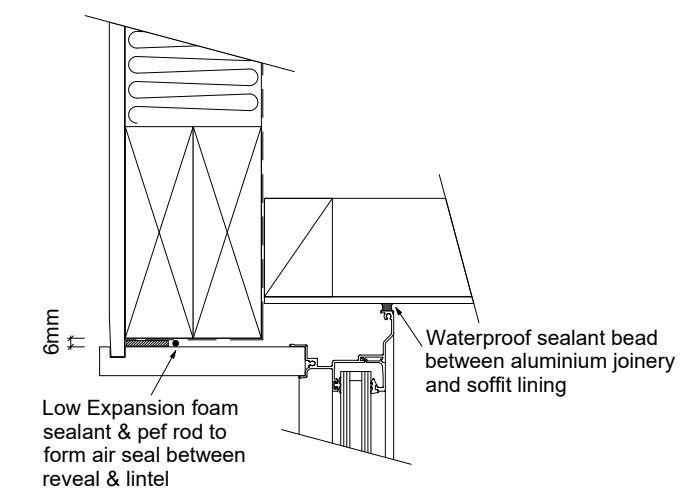
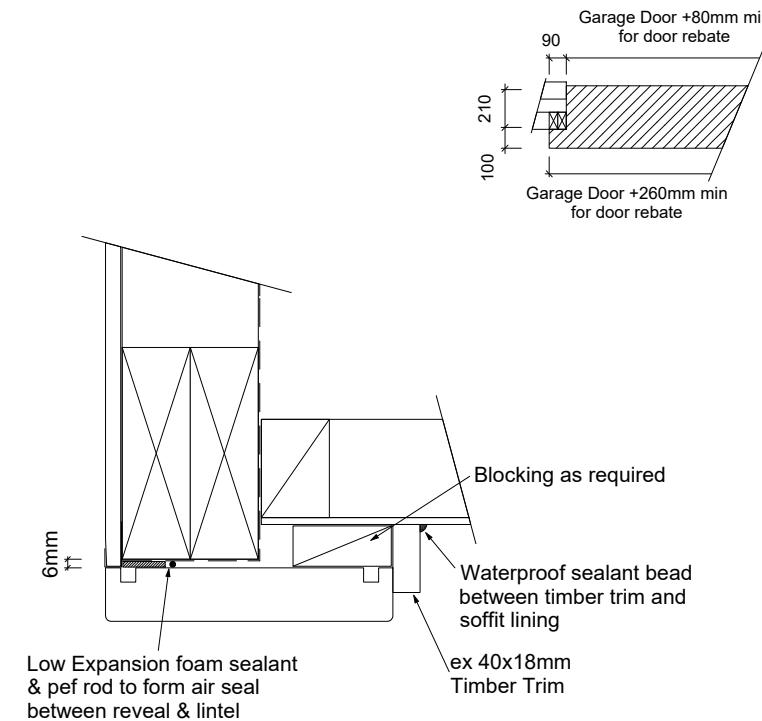
Install windows and doors using pairs of minimum 75 x 3.15 galvanised jolt head nails or 8 gauge x 65 mm stainless steel screws, through reveals into surrounding *framing* at:

- Maximum 450 mm centres along sills, jambs and heads, and
- Maximum 150 mm from reveal ends.

Install packers between reveals and *framing* at all fixing points, except between head reveals and lintels.



Door Jamb Detail
Scale 1:5



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Bo Cooper & Tasman Hawes
Lot 2, DP 570907
17 Rufus Street, Rolleston

Job Number:
171562

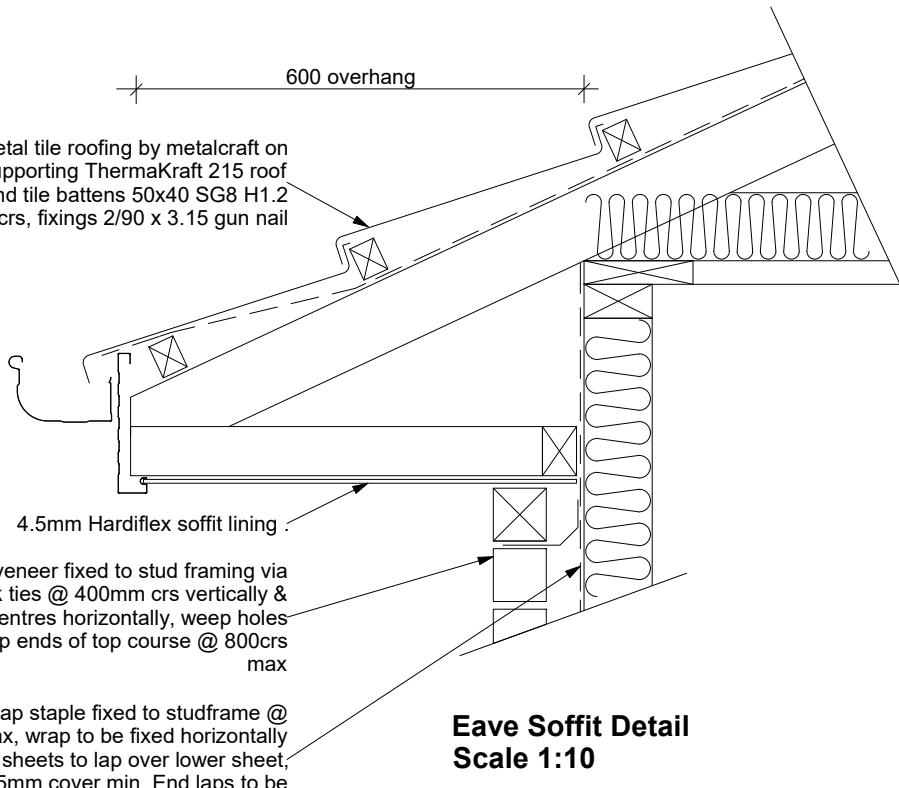
Original Plan:
Rifleman

Sheet Name:
CONSTRUCTION DETAILS

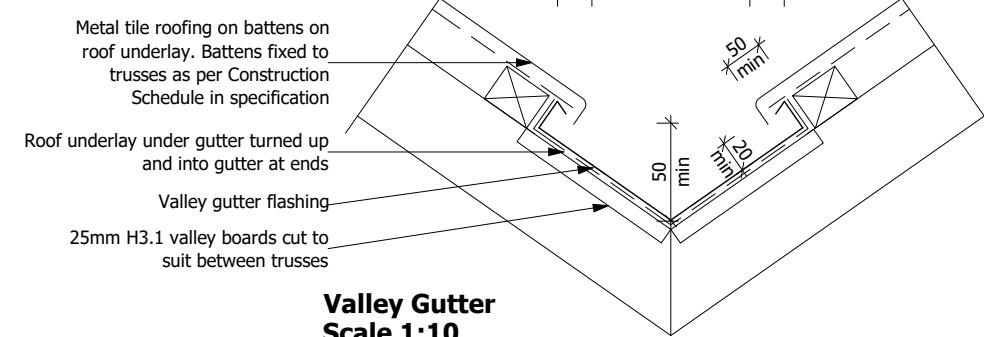
CONSENT PLANS

No. Date: Reason:
1 15-06-2023 Initial Consent Drawings

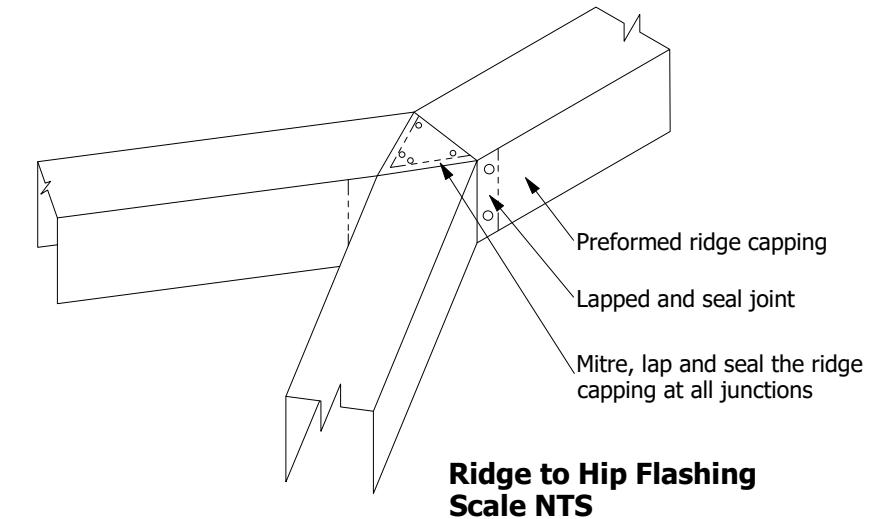
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18
of 23 sheets



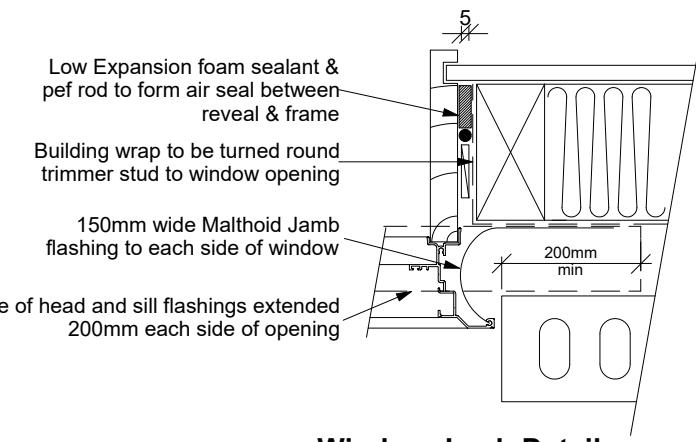
Eave Soffit Detail
Scale 1:10



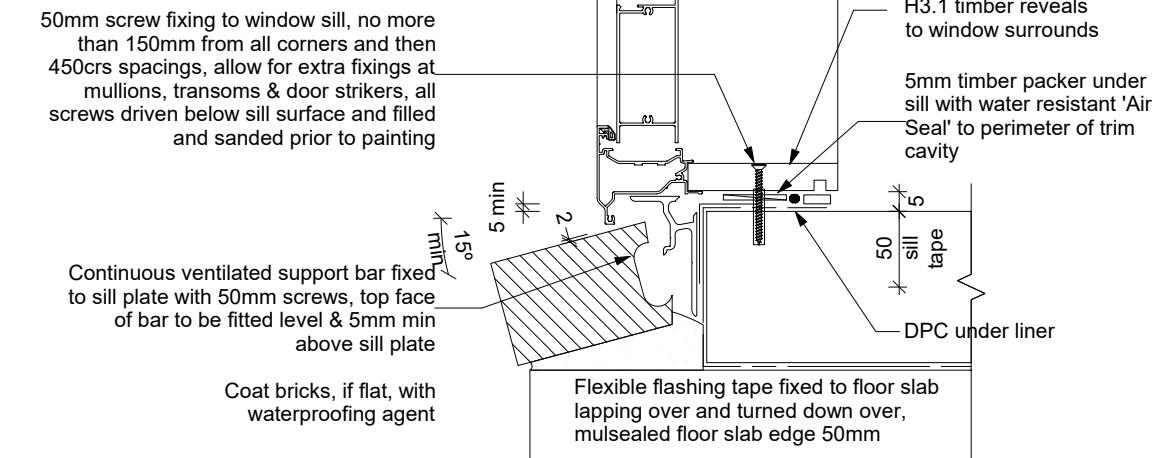
Valley Gutter
Scale 1:10



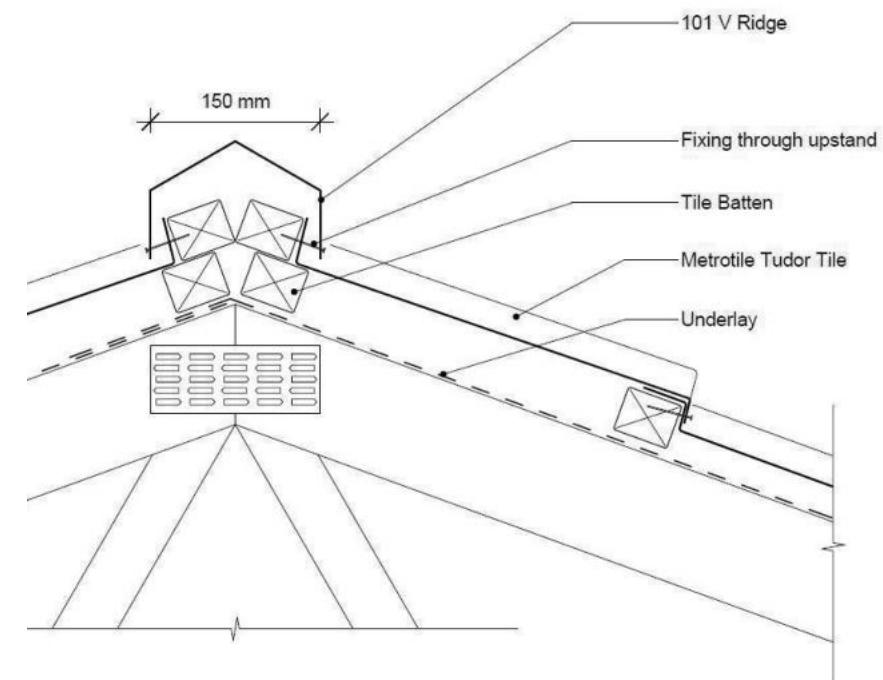
Ridge to Hip Flashing
Scale NTS



Window Jamb Detail
Scale 1:5



Door Sill to Slab Detail
Scale 1:20



Metal Tile Angle Ridge Detail
Scale NTS

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17 Rufus Street, Rolleston

Job Number:
171562

Original Plan:
Rifleman

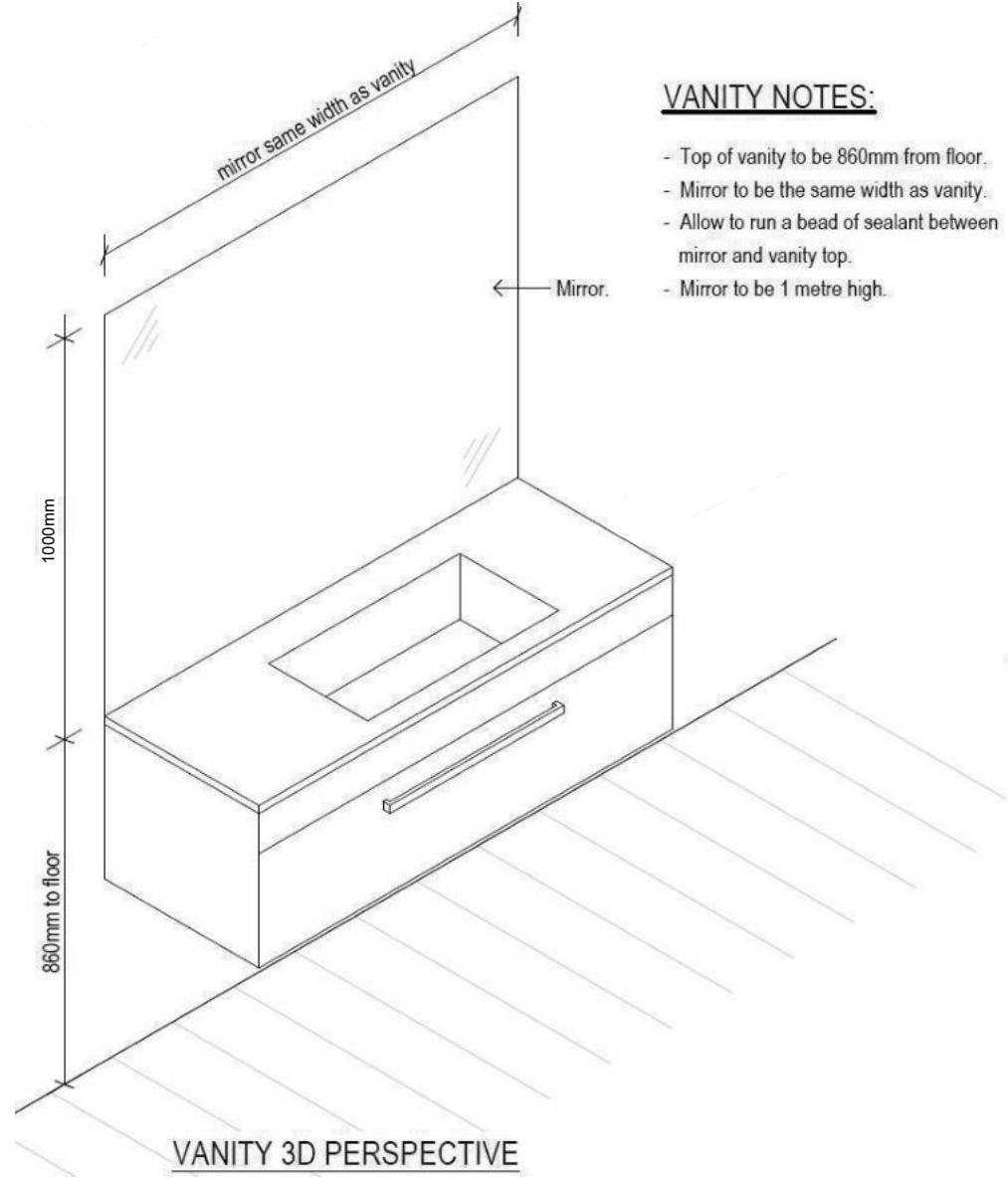
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CONSENT PLANS

No.	Date:	Reason:
1	15-06-2023	Initial Consent Drawings

Sheet No.:
19

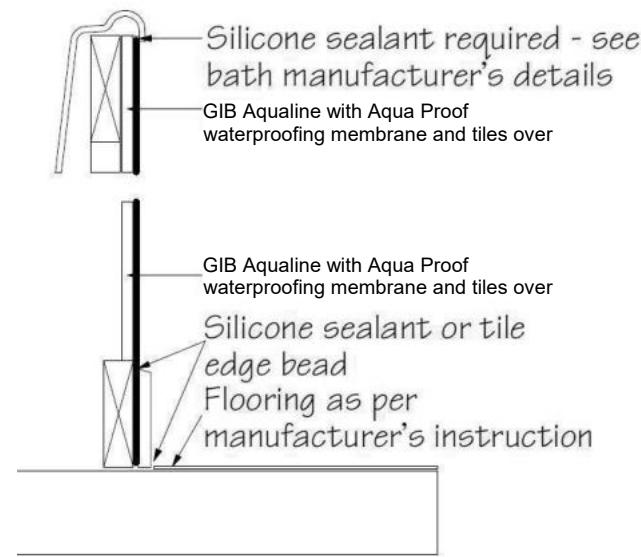
of 23 sheets



VANITY NOTES:

- Top of vanity to be 860mm from floor.
- Mirror to be the same width as vanity.
- Allow to run a bead of sealant between mirror and vanity top.
- Mirror to be 1 metre high.

VANITY 3D PERSPECTIVE



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Job Number:
171562

Original Plan:
Rifleman

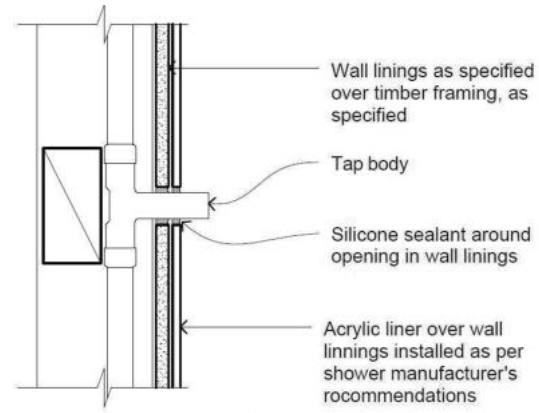
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BATHROOM DETAILS

CONSENT PLANS

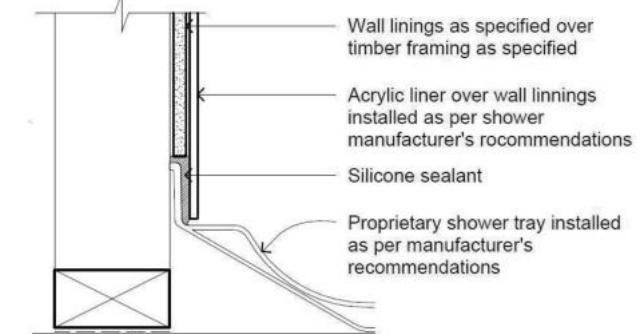
No.	Date:	Reason:
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Sheet No.:
20

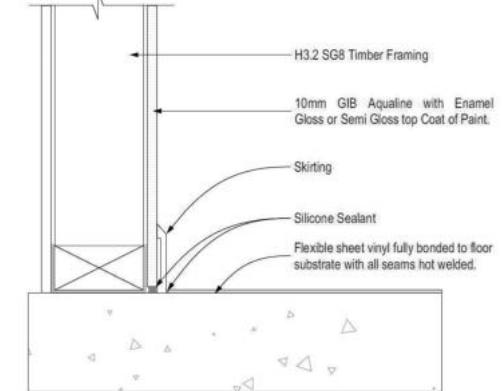
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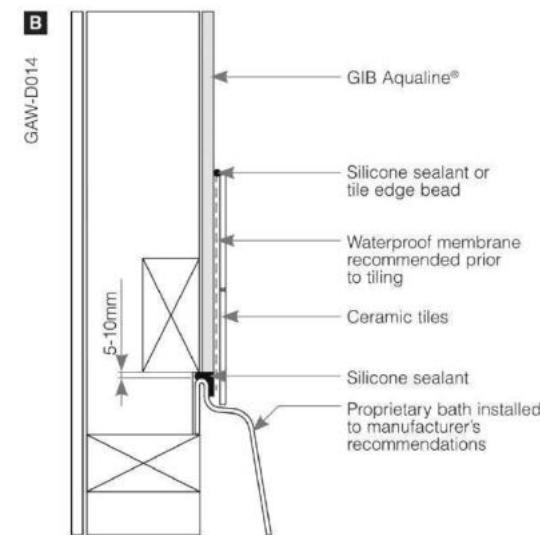
PENETRATION DETAIL



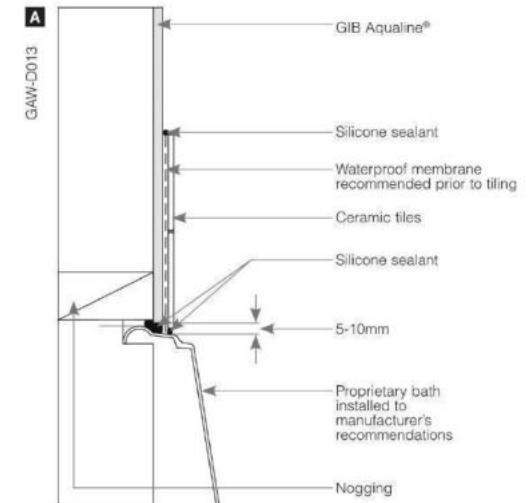
SHOWER TRAY DETAIL



GENERAL FLOOR/WALL DETAIL

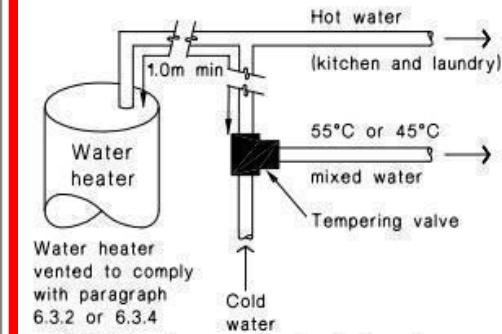


B
GAW-D014



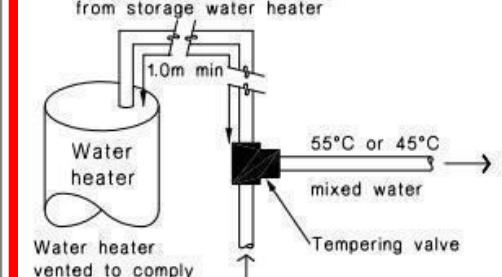
A
GAW-D013

Figure 16: Tempering Valve Installation
Paragraph 6.14.2 a)



(a) With untempered water to laundry and kitchen fixtures and appliances

1.0m minimum copper pipe length from storage water heater



(b) Where all hot water is tempered

Note:
For optimum system efficiency the tempering valve, for other than a mains pressure system, may be located as low as practicable to achieve the manufacturer's recommended head, at the tempering valve.

2. 1.0m minimum copper pipe length from storage water heater.

Figure 8: Mains Pressure Storage Water Heater System (unvented)
Paragraphs 6.1.2 and 6.2.1 b)

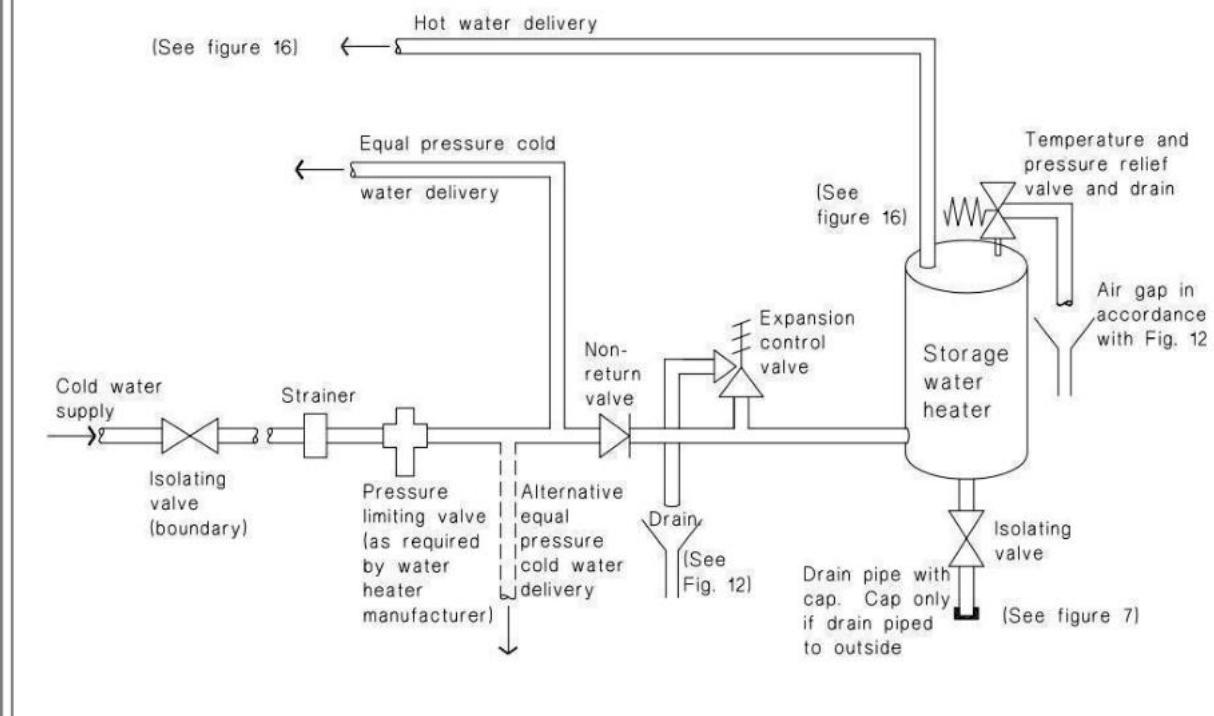
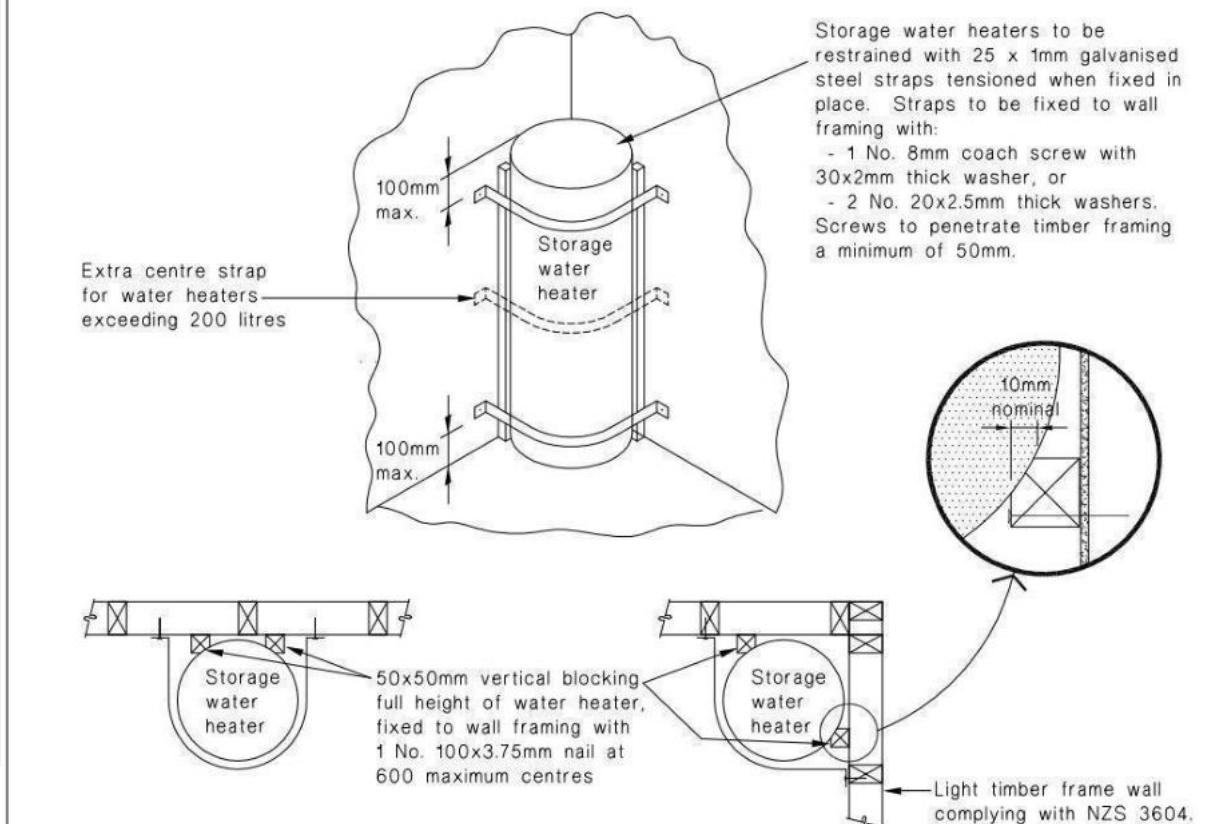


Figure 14: Seismic Restraining of Storage Water Heaters 90 – 360 litres
Paragraph 6.11.4



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17 Rufus Street, Rolleston

Job Number:
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Original Plan:
Rifleman

Sheet Name:

PLUMBING DETAILS

CONSENT PLANS

No.	Date:	Reason:
1	15-06-2023	Initial Consent Drawings

Sheet No.:
21

of 23 sheets

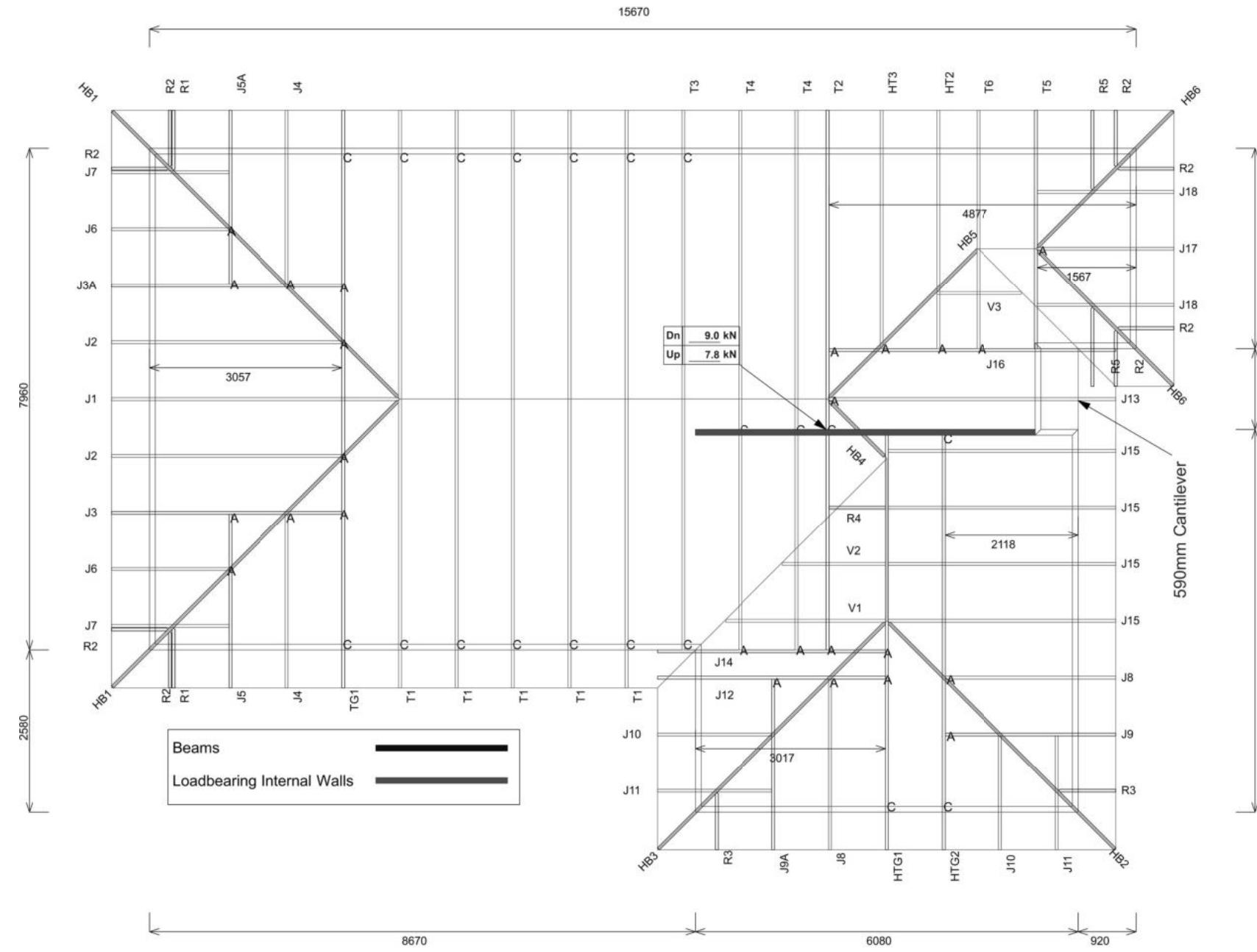
Buildable Consent Layout



For valley/saddle truss fixing unless stated otherwise use a pair of wire dogs at 900mm centres for up to and including a very high wind zone. Or a pair of CT200's at 900mm centres for extra high wind zone. This fixing is to meet the minimum requirements as per NZS3604.

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Truss Fixings

A = 47x90 Joist Hanger
B = 47x120 Joist Hanger
C = CT200 (pair)
D = 47x190 Joist Hanger
E = 95x165 Joist Hanger
F = SH-140 Split Hanger
G = SH-180 Split Hanger
H = SH-220 Split Hanger
J = 2x6kN Strap (12kN)
K = 6kN Strap
L = Multigrip (single)
M = Multigrips (pair)
N = Nailon Plate (240x110x1)
P = 16kN Pack
Q = 9kN Pack
S = CPC 40 Single Cleat
T = CPC 40 Short (pair)
U = CPC 80 Single Cleat
V = 16kN Uplift
Z = Engineers Design

Unless otherwise indicated, all specified truss fixings are to use L/Lok product nail fasteners or Type 17 - 14g Hex Head Screws (as per the MiTek On-site Guide)

All truss to frame fixings require 2 additional 2/90x3.15dia skew nails.

All truss fixings not indicated as above must have 2 wire dogs for cross joints and 2/90x3.15dia nails for butt joints.

Fixings shown are for fixing trusses to the top plate. Any other point load uplift fixings down through the framing stud to top plate, stud to bottom plate, bottom plate to floor remain the responsibility of the architect / draughtsman.

Any roof loads as stated on this layout over 16kN lift are outside the scope of NZS3604, and the architect / draughtsperson is responsible for the design to transfer the loads to the ground.

Snow Zone:	Christchurch (N4)
Wind Area:	High
TC Restraints:	400 mm
Roof Material:	Metal Tiles
Roof Pitch:	25.00 °
Snow Altitude:	100.000 m
Design Wind Speed:	44.0 m/s
BC Restraints:	600 mm
Ceiling Material:	Standard Plaster Board 13mm
Ground Snow Load:	0.900 kPa
Truss Centres:	900 mm



Job No: CY1389622C1
Customer: TKR Homes Limited | T/A Signature Homes Canterbury
Job Name: Cooper Hawes Lot 2, 17 Rufus St.
Address: Lot 2, 17 Rufus Street
Rolleston, Selwyn District

If a gable truss requires a windbeam brace, the type of MiTek brace will be noted as such on the layout. The truss fixings can be substituted for other fixings of the same or greater capacity. All verge framing to be fixed according to the MiTek On-Site Guide if not covered by NZS3604. If bottom chord restraints are 35mm Metal battens, then they must be fixed with either two nails or screws. If the metal battens are fixed with a single nail or screw then 90x45mm bottom chords restraints will be required at 1800mm centres

All loads shown on this page regarding the truss fixings are characteristic loads

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Bo Cooper &
Tasman Hawes
Lot 2, DP 570907
17 Rufus Street, Rolleston

Job Number:
171562
Original Plan:
Rifleman
Sheet Name:
TRUSS DESIGN
Sales: V Bhatia Drawn: L Stephens QS: W Xian Print Date: 13-Jul-23 Scale: NTS @ A3

CONSENT PLANS		
No.	Date:	Reason:
1	15-06-2023	Initial Consent Drawings

Sheet No.:
22
of 23 sheets

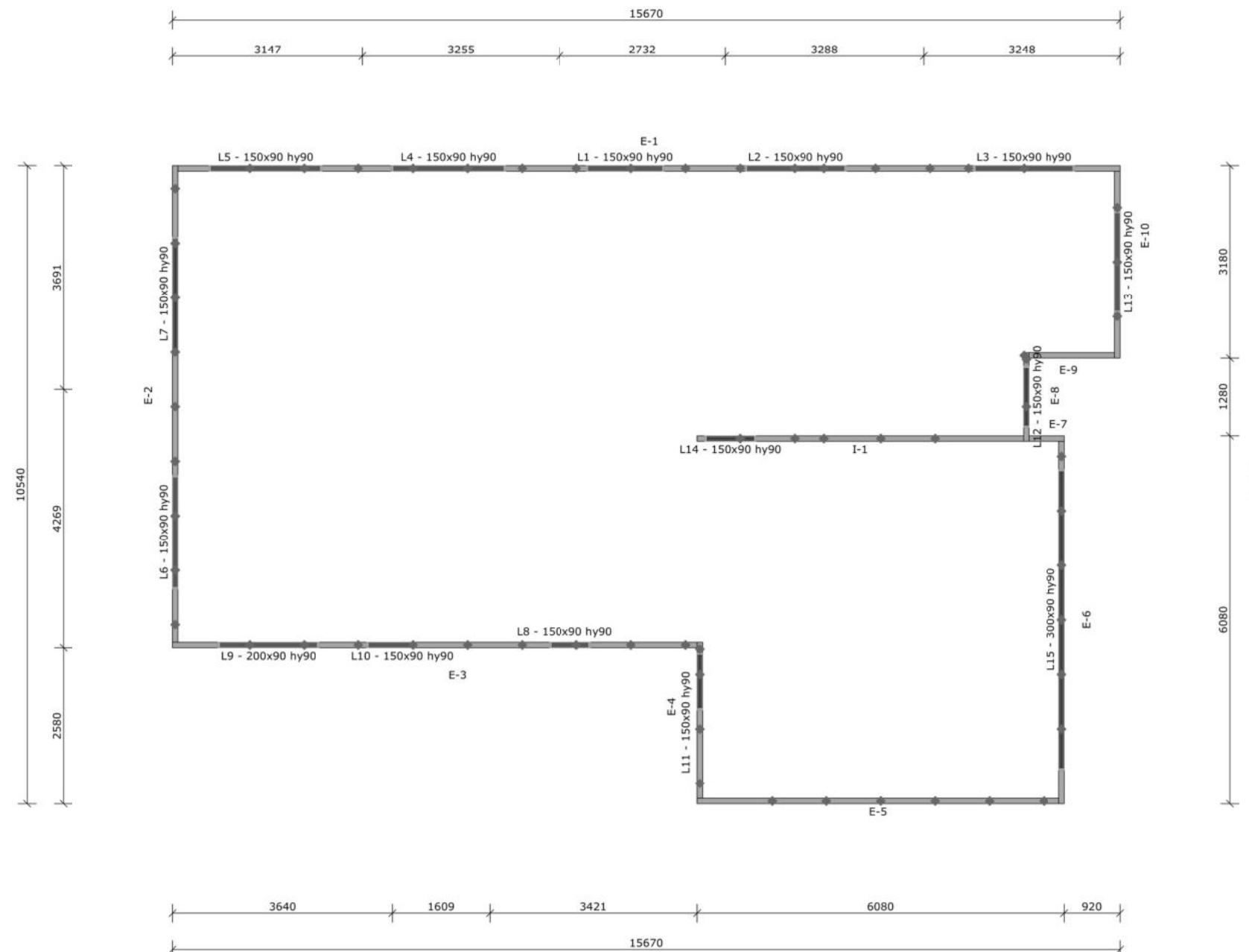
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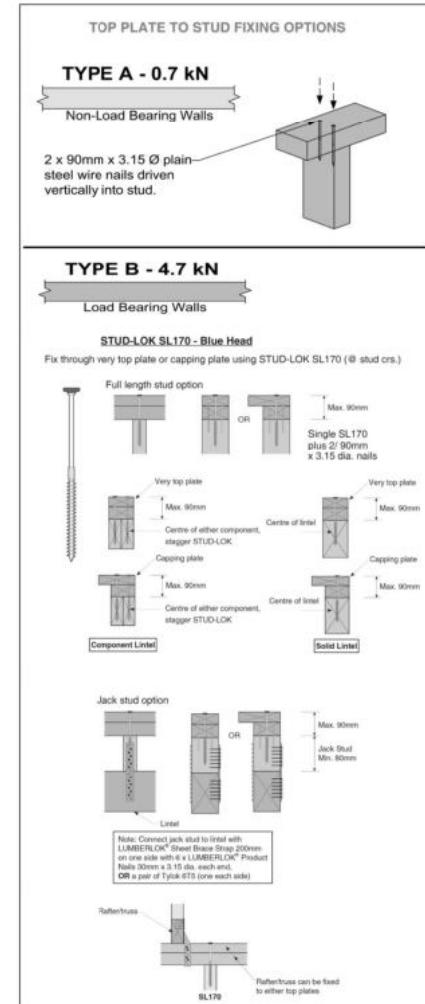
All internal walls shown on this layout are considered to be loadbearing
Lintel fixing specification remains the responsibility of the architect / draughtsperson

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Lintel Fixings are as per the included reports.



Note: These top plate to stud fixing options do not apply to walls under floors, just walls with trusses or rafters attached.

	MiTek SAPPHIRE™ Every Facet an Advantage.
Drawn:	Bruce Barrow
Date:	12/06/2023

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Customer: TKR Homes Limited | T/A Signature Homes Canterbury
Job Name: Cooper Hawes Lot 2, 17 Rufus St.
Address: Lot 2, 17 Rufus Street
Rolleston, Selwyn District

Notification of point loaded lintels or point loads on internal walls where the downward load is higher than 8kN (85mm raft type slab) or 10kN (100mm standard slab), or the upward load is greater than 10kN. These loads are Ultimate Limit State Loads
If no loads are shown, no thickening is required.

The lintels have been sized using one of the following:
The MiTek SAPPHIRE Component Design Software.
hy90, hyONE and hySPAN lintels have been sized using the designIT for houses - New Zealand series 6 software.
GANGLAM and FLITCH BEAMS have been sized using the MiTek Beam Program V1.10 June 2011.
Unless otherwise stated the timber grade for all lintels is SG8. Lintels not shown are to be selected as per NZS3604: 2011 or designed by an engineer as required.

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Job Number: **171562**
Original Plan: **Rifleman**
Sheet Name: **TRUSS DESIGN**
Sales: **V Bhatia** Drawn: **L Stephens** QS: **W Xian** Print Date: **13-Jul-23** Scale: **NTS @ A3**

CONSENT PLANS

No.	Date:	Reason:
1	15-06-2023	Initial Consent Drawings

Sheet No.: **23**
of 23 sheets