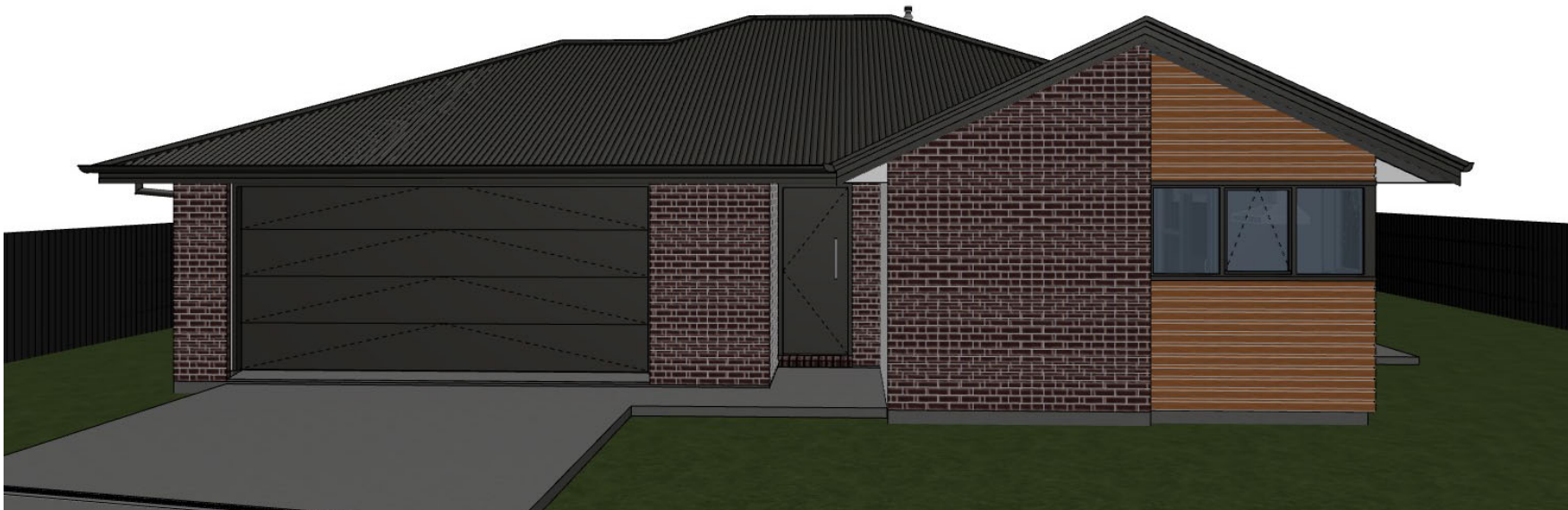


Sheet Index

Layout ID	Layout Name
A1.01	Site & Sediment Control Plan
A1.02	Plumbing & Drainage Plan
A1.03	Foundation Plan
A2.01	Ground Floor Plan
A2.02	Framing Plan
A2.03	Roof Plan
A2.04	Bracing Plan
A2.05	Bracing & H1 Calculations
A3.01	Elevations
A3.02	Door & Window Schedule
A4.01	Sections A & B
A4.02	Section C
A5.01	Plumbing & Drainage Details.
A5.02	Foundation Details
A5.03	Allied RIB Raft Foundation Details
A5.04	Typical Roof Details
A5.05	Brick Cladding Details
A5.06	Earthen Radiata Shiplap Details
A5.07	Chimney Flue Penetration Detail
A5.08	Wet Area Details
A5.09	Lintel Fixing Details
A5.10	MISC Details

Proposed New Dwelling  
for  
Lot 176 Oakfields



ARTIST IMPRESSION ONLY

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General Notes

LOT No: 176  
D.P: TBC  
Site Area: 707m<sup>2</sup>

Floor Area (Over Framing) 166.58 m<sup>2</sup>  
Floor Area (Over Foundation) 173.52 m<sup>2</sup>  
Site Coverage 25%- (35% Allowable)  
Maximum Building Height 8m  
Territorial Authority Hurunui District Council  
Planning Zone Residential 1a  
Flood Management Area N/A  
Wind Zone High Wind Zone  
Earthquake Zone Zone 3  
Technical Category TC1  
Snow Zone Zone N4- 0.9kPa  
Corrosion Zone Zone B  
Coastal Hazard N/A

**General:**  
Concept subject to TA rules and regulations.  
All dimensions to be confirmed on site  
Concept may be subject to subdivision developer's approval

**Foundation Type:**  
Allied TC1 Rib Raft Qpod Foundation.

**Site Information:**  
Position of road crossing, services locations, street trees, lamp posts, parking bays, pedestrian islands etc is unknown - to be confirmed when information becomes available.

**Site Levels:**  
Levels to be obtained and in relation to LVD.

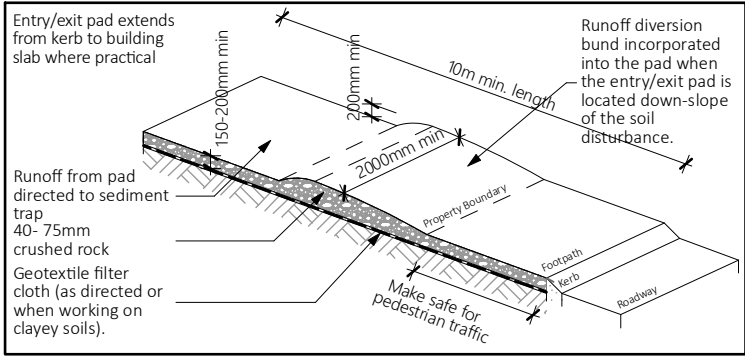
Finished floor level to be 150mm minimum above crown of road as per NZBC E1/AS1 Figure 1 or the lowest point of the boundary as per Figure 2 ,E1/AS1.

**Landscaping:**  
This plan is indicative only. Landscaping to be confirmed by the client. All Fencing to comply with the relevant Covenants.

**Steps & Paths:**  
A Step/s or appropriate landscaping is to be provided if drop from external doors is greater than 190mm from FFL to FGL. All access routes must provide a non-slip surface in accordance to NZBC D1/AS Table 2. Convey surface water from sealed drive to an appropriate approved outfall.

Sediment Control

- All ground cover/vegetation outside of immediate build area to be maintained throughout period of house build. This includes grass verges on the street frontage.
  - Any stockpiles of soil or excavated material are to be kept to the front of the site & covered with impervious sheets.
  - Roof downpipes are to be connected to the installed stormwater drainage as soon as practical once roof cladding has been installed. Until this point ensure water run-off from downpipes is directed away from build area but not on to neighbouring properties.
- No building work will be started on this project until the construction of an approved stormwater outfall has been completed for this proposed lot.**

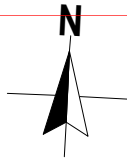


Stabilised Entry/Exit Pad

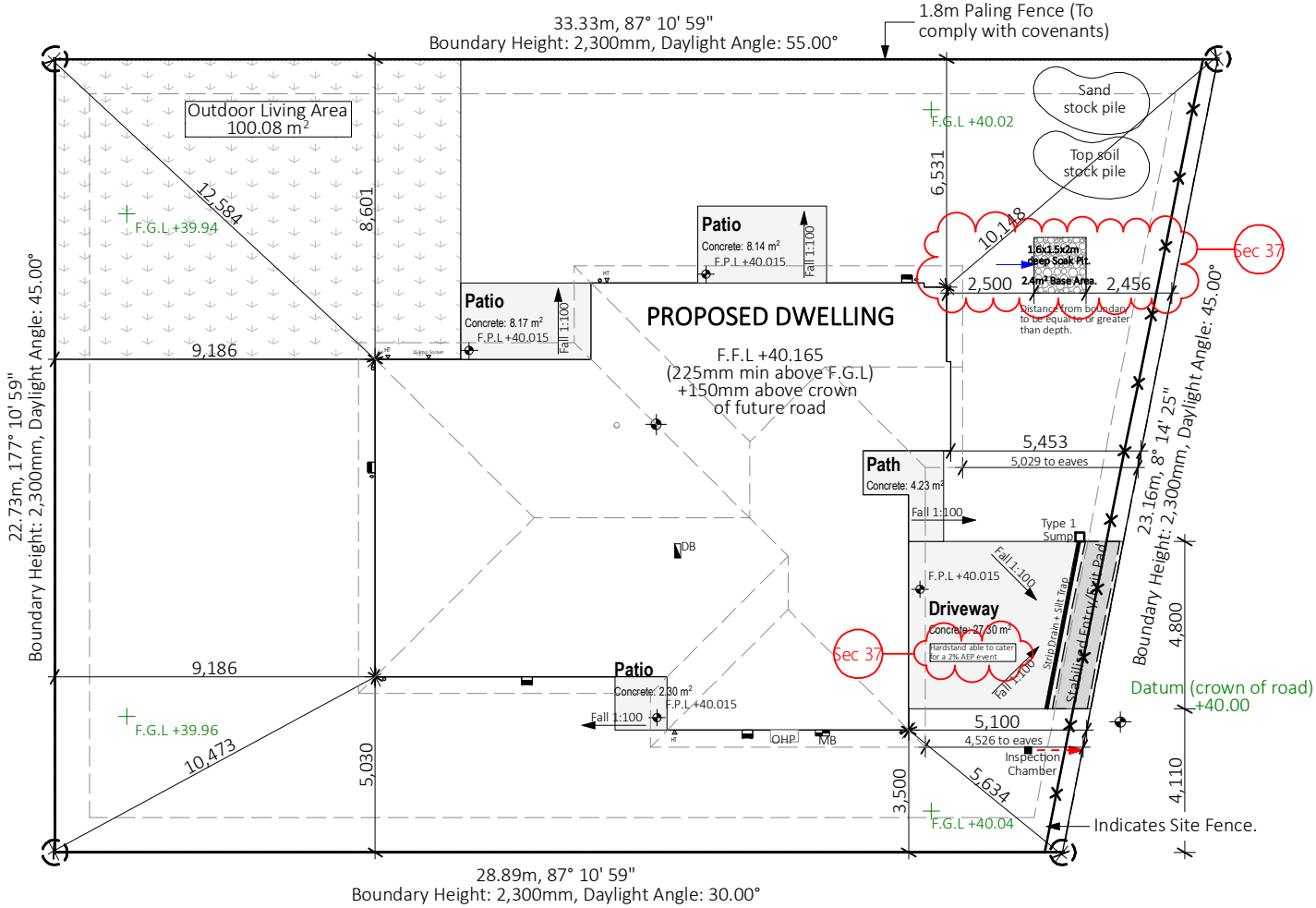
Site Plan Legend

-Site fencing:  
-1:100 Fall to planting or grass area

1:100 Fall





-Main contractor to provide 2m min. high chain link fence (min. size 50 x 50mm) to prevent unauthorised entry to the site. All fencing to comply with F5 including relevant hazard signage.  
-Main contractor to provide on site a specific Health & Safety policy which is to be viewed & signed by all persons entering the site.



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During  
Processing  
25/01/2022**

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	Office 1, Level 1 Lambert Building, Conway Lane 172 High Street, Rangiora 7400 hello@choicearchitecture.co.nz		Project:  Lot 176 Oakfields  Project Address:  Lot 176 Oakfields, Amberley	Drawing Title: <b>Site &amp; Sediment Control Plan</b> Job No: 21126 Client: Marty Murchison Stage: Detailed	Designer: LF Drawn By: LF Technician: LF	Rev	Date	Description	Scale @ A3: 1:200	Print Date 25/01/2022
						1	-02/11/2021	-Detailed Design		
						1	-03/11/2021	-Building Consent Issue		
						2	-25/01/2022	-Sec 37 & RFI		
						+	+	+		
						+	+	+		
						+	+	+		
						+	+	+		
						+	+	+		
						+	+	+		
						+	+	+		
								Sheet No: <b>A1.01</b>	Rev: <b>2</b>	

Legend

Ref	Fixture	Waste Size	Gradient
WC	Water Closet	100mm	1:60
B	Bath	40mm	1:20
SHW	Shower	40mm	1:20
S+DW	Kitchen Sink + DW	50mm	1:40
Van.U	Vanity Unit	40mm	1:20
TUB+WM	Laundry Tub + WM	50mm	1:40
HWC	Hot Water Cylinder	20mm	1:40
WM	Washing Machine	Discharge to TUB	
GT	Gully Trap		
RGT	Relief Gully Trap		
TV	Terminal Vent	80mm	
BV	Branch Vent	40mm	
DP	Downpipe	80mm Dia Colorsteel Downpipes	
IP	Inspection Point		
AAV	Air Admittance Valve	Discharge pipe more then 3.5m to GT	
HT	Hose Tap		
HP	Heat Pump		

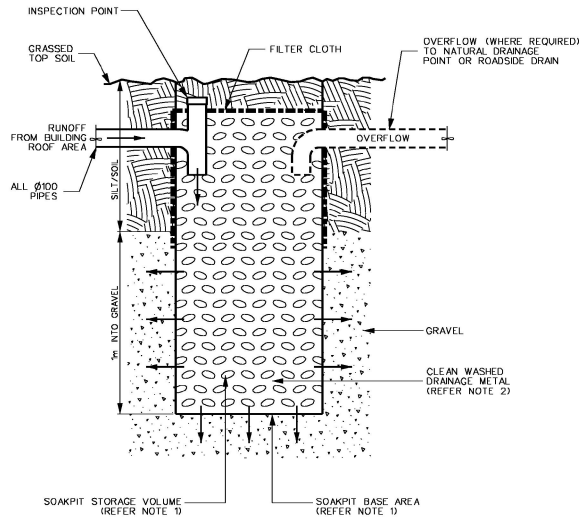
- 100mm uPVC surface water drain at 1:100 gradient to soakpit. (SW)
- 100mm uPVC foul water drain at 1:60 gradient to existing laterals at boundary. (FW)
- All internal waste pipes - Size & gradient shown in above table

Note:

- Relief Gully Trap is to be positioned so that the top of the gully dish is no less than 150mm below the overflow level of the lowest sanitary fixture served by the drainage system.
- Position of drain connections at street laterals to be confirmed on site.
- Allow to thermally insulate all exterior pipework & valves exposed to external weather conditions.
- Heat pump drain pipe to discharge over the nearest Planting Area.

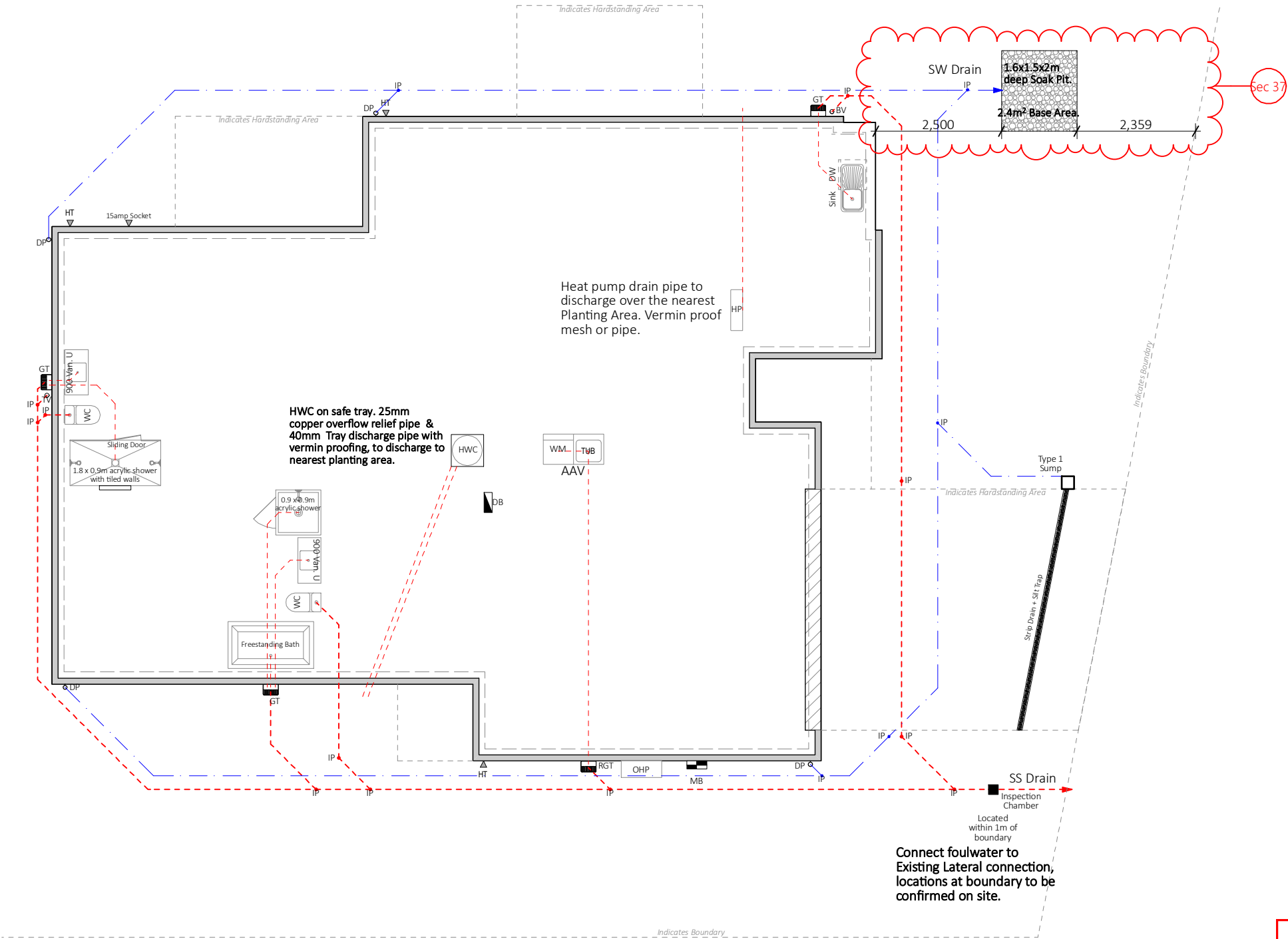
Drain pipes discharging to GT:  
- 25mm min air gap between all pipes & GT.

All plumbing and drainage to comply with Acceptable Solutions G13/AS/AS2 by qualifed tradesman. Allow to check all dimensions and falls of drains onsite prior to installation. Contractor to locate all service connections on site prior to earthworks, confirm all boundary setbacks & restrictions comply with current regulations prior to commencement of foundations.  
All waste pipes PVC. Sizes, fall, venting & discharge to be confirmed by NZ qualified plumber. Confirm positions of available services cabling etc. on site prior to any excavation. Internal water pipes to be Polybutylene. All pipework & pipes exposed to freezing to be lagged with closed cell foam.



NOTES:

- SOAK PIT SIZING - PROVIDE 1m³ OF BASE AREA PER 100m² OF ROOF AREA AND 2m³ OF STORAGE VOLUME PER 100m² OF ROOF AREA (ALLOW 0.38 FACTOR FOR VOID SPACE) OR ALTERNATIVELY PROVIDE FULL DESIGN CALCULATIONS IN ACCORDANCE WITH VERIFICATION METHOD D/AM/SECTION 9.
- CLEAN WASHED DRAINAGE METAL - TO BE EITHER TAILINGS 20mm-40mm, ROUNDS 40mm-65mm, BOULDERS 65mm-120mm, ROCKS 100mm-150mm OR SIMILAR.



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25/01/2022

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Office 1, Level 1  
Lambert Building, Conway Lane  
172 High Street, Rangiora 7400  
hello@choicearchitecture.co.nz



Project: Lot 176 Oakfields  
Project Address: Lot 176 Oakfields, Amberley

Drawing Title: Plumbing & Drainage Plan  
Job No: 211126  
Client: Marty Murchison  
Stage: Detailed  
Designer: LF  
Drawn By: LF  
Technician: LF

Rev	Date	Description
1	-02/11/2021	-Detailed Design
2	-03/11/2021	-Building Consent Issue
3	-25/01/2022	-Sec 37 & RFI

Scale @ A3: 1:100  
Sheet No: A1.02  
Print Date: 25/01/2022  
Rev: 2

HDC Approved Consent Document (In accordance with BA 2004, Cl. 49(1)) - Processed by : B. Wells - BC No. 210544



General Notes

Floor Area (Over Framing) 166.58 m<sup>2</sup>  
Floor Area (Over Foundation) 173.52 m<sup>2</sup>

Wall Cladding Materials

70 series Brick Veneer over 50mm cavity installed as per manufacturer's specifications & NZS4210 (120mm Rebate).  
-Earthen Radiata HT51 Horizontal Shiplap over 40mm cavity installed as per manufacturer's specifications.

Roofing Materials

-0.40 BMT Colorsteel Longrun Corrugate on Self-supporting building underlay

Roof Pitch 25°  
Eaves Width 600mm  
Gable Width 450mm  
Height To Underside Of Truss 2455mm  
Lintel Height 2135mm  
Internal Door Leaf Height 2400mm  
Internal Door Leaf Width 810mm

Wall and Ceiling Linings

-9mm Magnum Board lining installed over timber framing as per manufacturer's specifications. 9mm Magnum Board to be used in wet areas.  
-9mm Magnum Board ceiling lining fix to 35mm Metal Battens @ 600c/s, installed as per manufacturer's specifications.

Heating:

Heat pump to be fixed in position shown on the drawings.  
Masport R3000 Fireplace. Refer to specifications for more information.

Ventilations/Extraction System:

(25 L/s) Bathroom & Ensuite to vent directly to exterior  
Dryer to vent directly to exterior through soffit lining.  
(50L/s) Range Hood to exit through soffit lining.  
Bathroom & Ensuite extraction systems to be automated and placed to adequately deal with steam.

General Notes:

- All glazing to comply with NZS4223  
- Hot water pipes to be sized according to NZBC G12 & NZS4305:1996. Mains pressure: 15mm dia. allows 12mm max. pipe length. Pipe length beyond this must be lagged.

Surfaces Note:

-All food preparation areas & fixtures to comply with G3/AS1.  
All kitchen fixtures to comply with G3/AS1 section 1.0. all splashbacks (linings adjacent to appliances & facilities) shall comply with G3/AS1 paragraph 1.6.

Wet Area Note:

- Satin enamel wall finish to bathroom, ensuite & those walls adjacent to sinks etc. in kitchen & laundry. One row of tiles to be used above basins, vanities & benches. Bottom edge to be filled with fungus/mold resistant sealant.

Smoke Alarms:

Required within 3m of all sleeping areas, change in level & entry/exits, Hush type facility in accordance to F7/AS1

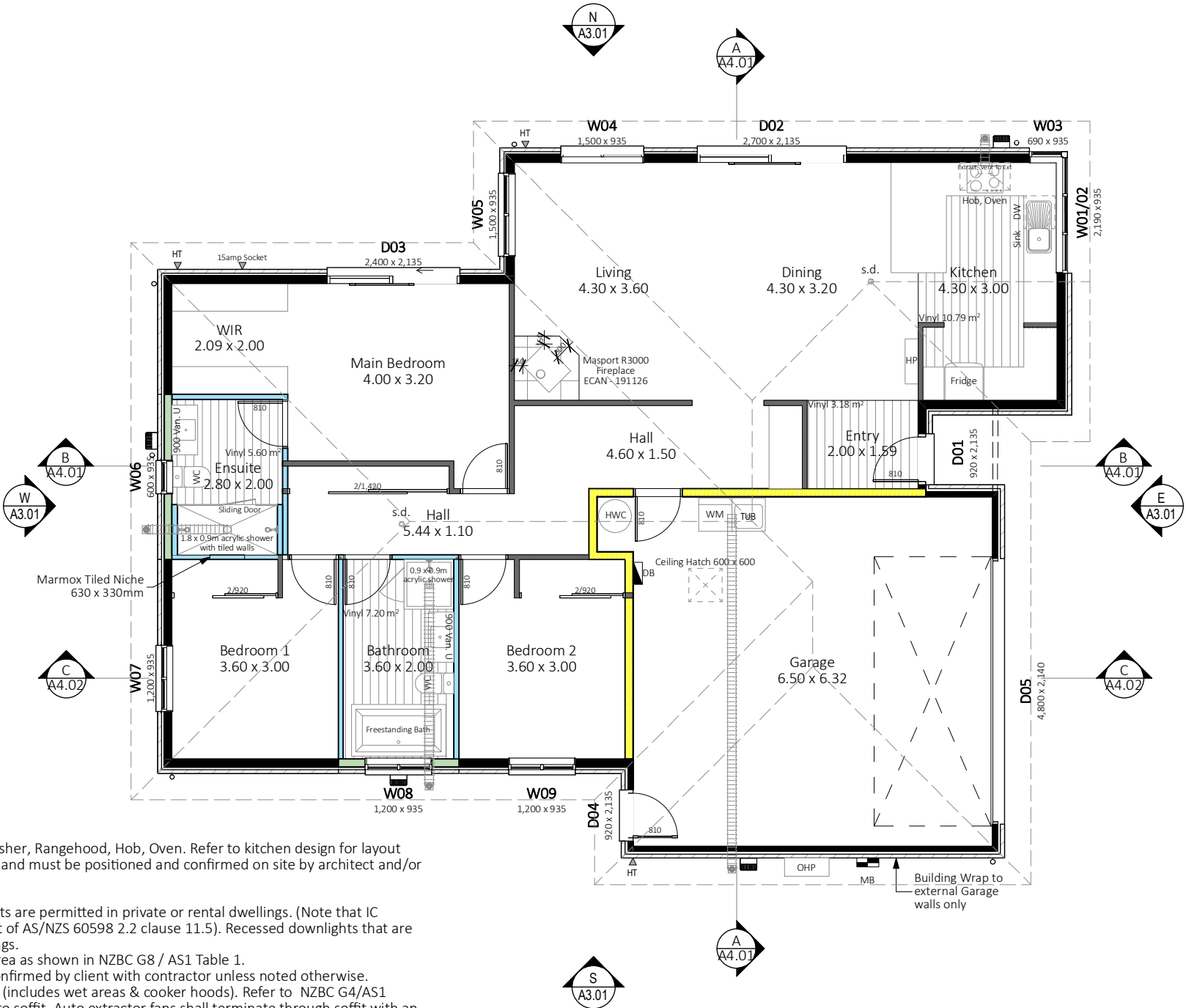
Dimensions to be confirmed on site

Electrical Notes

- Allow for single switched powerpoint for standard appliances: Fridge, Dishwasher, Rangehood, Hob, Oven. Refer to kitchen design for layout and positions of kitchen area sockets etc. All power points are indicative only and must be positioned and confirmed on site by architect and/or owner.
- All electrical installations to be in accordance with NZECP 51:2004
- Where downlights are to be installed, only CA 80, CA 135, IC or IC-F downlights are permitted in private or rental dwellings. (Note that IC downlights can only be used with insulation that passes the needle flame test of AS/NZS 60598 2.2 clause 11.5). Recessed downlights that are not labelled as above are not permitted to be installed into residential buildings.
- Total of 20 lux of illuminance for the total wattage required per m2 of floor area as shown in NZBC G8 / AS1 Table 1.
- Lighting and electrical by others, all positions and types to be selected and confirmed by client with contractor unless noted otherwise.
- Mechanical ventilation in housing removing moisture shall be vented outside (includes wet areas & cooker hoods). Refer to NZBC G4/AS1 1.3.C.iiio, Mechanical Ventilation to be 150 dia 230 Cu M/H inline fan ducted to soffit. Auto extractor fans shall terminate through soffit with an extraction rate as set out in NZBC G4.
- Downlights shall be CA80 check the insulation manufacturers instructions to ensure their product is safe when installed along side proposed downlights

General Placement Notes

- Powerpoints typically 300mm from nearest corner & 300mm from FFL unless otherwise noted
- Powerpoints in wet areas to be 1,200mm high from FFL and vertically fixed unless otherwise noted
- Powerpoint for heater to be located 300mm below finished ceiling level
- Powerpoints in kitchen to be 1000mm high from FFL
- Light switches typically 150mm from nearest corner or door frame & 1,200mm from FFL unless otherwise noted
- HWC switch 300mm above FFL
- Laundry Power Point 1000mm above FFL



LEGEND

- Meterboard
- Distribution Board
- s.d. Smoke Detector
- Heated Towel Rail
- Outlet Grille
- Mechanical Vent / Ducting
- Hot Water Cylinder on Safe tray
- Indoor Heat Pump Unit
- Outdoor Heat Pump Unit on Conc Plinth
- Gully Trap

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Lambert Building, Conway Lane  
172 High Street, Rangiora 7400  
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Project: Lot 176 Oakfields  
Project Address: Lot 176 Oakfields, Amberley

Drawing Title: Ground Floor Plan  
Job No: 21126  
Client: Marty Murchison  
Stage: Detailed

Designer: LF  
Drawn By: LF  
Technician: LF

Rev	Date	Description
-	-02/11/2021	-Detailed Design
1	-03/11/2021	-Building Consent Issue
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Scale @ A3: 1:100  
Sheet No: A2.01  
Print Date: 3/11/2021  
Rev: 1

Wall Framing:

Wind Zone	High Wind Zone
Height To Underside Of Truss	2455mm
Lintel Height 1	2135mm
Lintel Height 2	2140mm

-H1.2 treated LVL8 90x45mm timber framing studs @ 600mm crs. max, Dwangs @ 800mm crs. max. (Check Cladding Requirements) (Refer to NZS3604 table 8.2)  
-H1.2 treated LVL8 140x45mm timber framing studs @ 600mm crs max, Dwangs @ 800mm crs max.

Typical Fixing Schedule:

Exterior Bottom plate to concrete floor (Non-braced):

Pryda Bottom Plate Anchors with 75x4mm dia. concrete nails adjacent to anchor 70mm min from edge of slab. as per manufacturers specifications. @ 900mm crs. max as per NZS3604:2011. Refer to bracing plan for additional hold down fixings.

Interior bottom plate to concrete floor:

75 x 8mm shot fired fastenings with 16mm washers @ 600mm crs within 150mm each end of plate.Refer to bracing plan for additional hold down fixings.

Joint:

Stud to Bottom or Top plate:	4/100 x 3.15mm skewed nails
Dwang to stud:	2/100 x 3.15mm skewed nails
Fish plate to Straightened stud:	4/60 x 2.8mm nails each side
Half Joint in top Plate:	4/100 x 3.15mm skewed nails
Lintel to trimming Stud:	4/100 x 3.15mm skewed nails
Standard soffit stringer to stud:	2/100 x 3.75mm nails
Sill trimmer to trimming stud for:	
- Trimmer not exceeding 2400mm	2/100 x 3.75mm end nails
- Trimmer not exceeding 3000mm	3/100 x 3.75mm end nails
- Trimmer not exceeding 3600mm	4/100x3.75mm end nails
Double top plate to top plate:	2/100 x 3.75mm @ 500mm crs
Trimming studs together at openings,	
Studs & blocking at wall intersections:	100 x 3.75mm nails @ 600mm crs
Trimming Stud to Doubling Stud immediately under lintels:	2/100 x 3.75mm nails
Trusses to Top Plate:	2/100 x 3.75mm skewed nails
Metal Ceiling batten to bottom chord:	2/32 x 8g wafer head screws
Outrigger to Gable Top Plate:	1/14g self drilling screw, 150mm long
Outrigger to Truss:	2/100 x 3.75mm end nails
Flying Rafter to Outrigger:	2/100 x 3.75mm end nails
Outrigger Blocking to Top Plate:	4/100 x 3.75mm skewed nails
Purlins to Truss:	1/10g x 80mm self-drilling screw

Schedule of Framing Timbers - Grading & Treatment

Wall framing

Exterior walls & lintels	LVL8, H1.2, Pinus radiata
Interior walls (loadbearing)	LVL8, H1.2, Pinus radiata
Interior walls (non-loadbearing)	LVL8, H1.2, Pinus radiata
Wet Area Bottom plates & Framing	LVL8, H1.2, Pinus radiata

Cavity battens:

-Dry Cavity	Merchantable, H3.1, Pinus radiata
-Structural batten	Merchantable, H3.2, Pinus radiata

Roof framing

Roof trusses - typical	SG8, H1.2, Pinus radiata
Gable end truss	SG8, H1.2, Pinus radiata
Purlins	SG8, H1.2, Pinus radiata
Valley boards, barge boards	Merchantable, H1.2, Pinus radiata

Windows

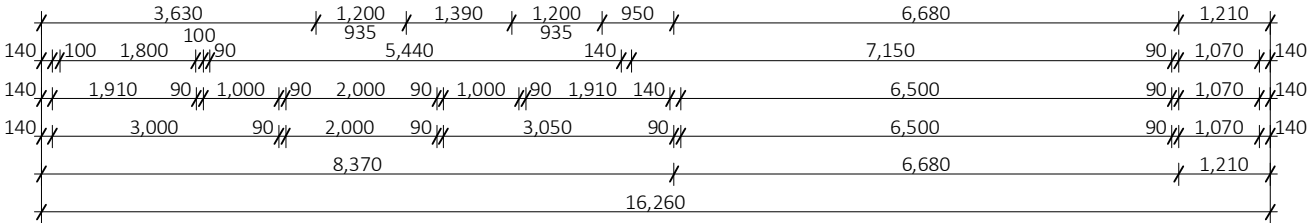
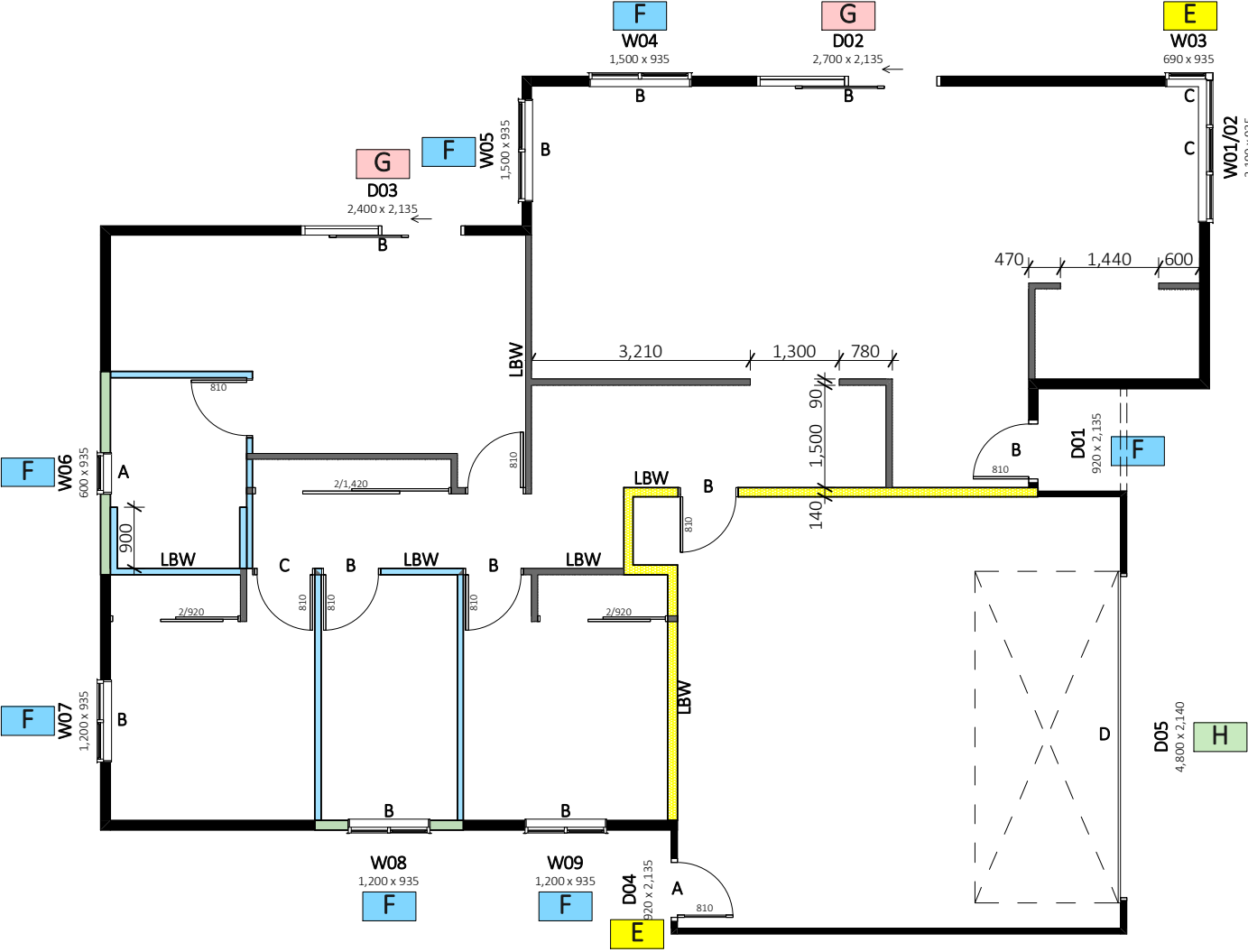
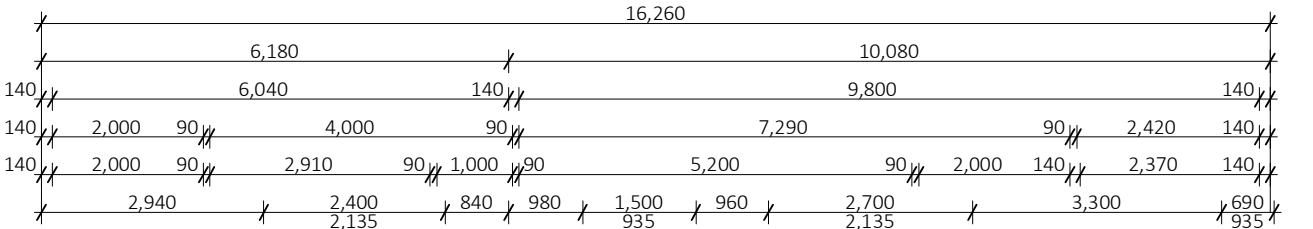
Framing and reveals	Dressed, H3.1, Pinus radiata
---------------------	------------------------------

Note: Gable ends clad in Brick to have studs @ 400mm ctrs

All tiled areas to have dwangs @ 600mm crs. max. (Excludes skirting/upstands)

Plumbing fixtures shown to indicate wet areas. GIB Aqualine to all wet areas as standard.

LINTELS & LINTEL FIXING TYPES				
Lintels as per Truss Design & Fixings as per Lumberlok Lintel Fixing Schedule. Refer Lumberlok Schedule attached.				
LINTEL SIZES	FIXING TYPES			
<b>A</b>	2/90x45	MSG8	<b>E</b>	= 1.4 kN
<b>B</b>	150x90	Hy90	<b>F</b>	= 4.0 kN
<b>C</b>	200x90	Hy90	<b>G</b>	= 7.5 kN
<b>D</b>	290x90	PL12	<b>H</b>	= 13.5 kN
Lintel Sizes as per truss design - Truss Design to take precedence over these drawings.				



KEY

- Indicates insulated wall
- Indicates non-insulated wall
- Indicates insulated wall
- Indicates Aqualine lined wall
- Indicates Aqualine & insulated lined wall

L.B.W = Load Bearing Wall

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172 High Street, Rangiora 7400  
hello@choicearchitecture.co.nz



Project:

Lot 176 Oakfields

Project Address:

Lot 176 Oakfields, Amberley

Drawing Title:

Framing Plan

Job No: 211126

Client: Marty Murchison

Stage: Detailed

Designer: LF

Drawn By: LF

Technician: LF

Rev	Date	Description
-	-02/11/2021	-Detailed Design
1	-03/11/2021	-Building Consent Issue
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Scale @ A3:

1:100

Sheet No:

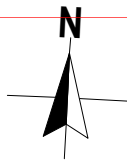
A2.02

Print Date

3/11/2021

Rev:

1



Roof Notes:

**Roof Cladding**  
-0.40 BMT Colorsteel Longrun Corrugate on Self-supporting building underlay  
Roof Pitch 25°  
Eaves Width 600mm  
Gable Width 450mm

**Spouting & Fascia**  
Selected colorsteel Quad spouting (5550mm²) cross sectional area fix to 185 Colorsteel fascia

**Down Pipe (DP)**  
80mm Dia Colorsteel Downpipes

Fixing Notes:

**Purlins**  
-70x45 H1.2 SG8 Purlins fixed to trusses with 1/10g x 80mm self-drilling screw or 2/100 x 3.75mm skewed nails & 1/wiredog (Alt 2.4KN Fixing). Top & bottom purlins shall be @ 600mm crs & 900crs to body.

**TRUSSES**  
-Prefabricated roof trusses @ 900mm crs max fix to top plate with 2/100 x 3.75mm skewed nails & 2/wiredogs each side in accordance to Manufacturer documents & producer statement.

90x45mm H1.2 treated SG8 outriggers @900crs max to gable verge to allow for overhang/eave width. Outriggers to span back to next truss. Outriggers to be fixed as per NZS3604:2011 Table 10.18:  
- 1/10g x 80mm self-drilling screw to wall framing.  
- 3/90 x 3.15mm nails to rafters.  
- 4/90 x 3.15mm skewed nails to blocking.

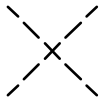
Roof bracing to be 8.0kN diagonally opposed intersecting steel straps fixed to top chord & top plate as per NZS3604:2011, Section 10.3, 10.4 or refer to truss manufacturer's design for positions.

All roof penetrations shall be flashed as per NZBC E2/AS1 external moisture section 8.4 profiled metal roof cladding (8.4.17 Roof Penetrations) as shown in figure 53 & 54

All Flashings to be 0.55 BMT colorsteel fixed in accordance with NZS3604:2011 and meeting the durability requirements of NZBC E2/AS1 Table 20,21,22

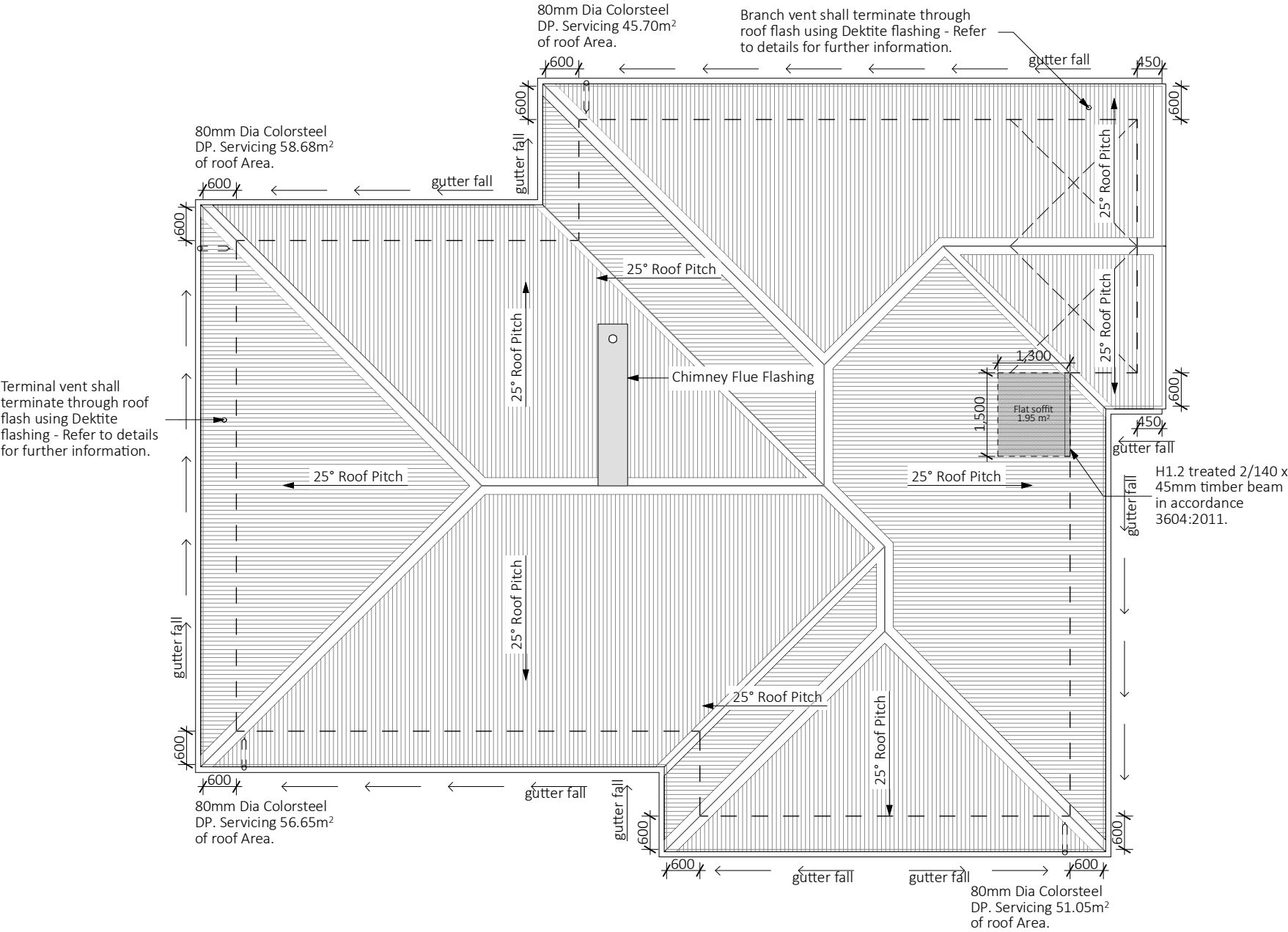
GENERAL KEY:

LUMBERLOK Strip roof bracing as per truss design:





Gutter Fall:

TV	Terminal Vent	80mm
BV	Branch Vent	40mm
DP	Downpipe	80mm Dia Colorsteel Downpipes



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 <div>Office 1, Level 1 Lambert Building, Conway Lane 172 High Street, Rangiora 7400 hello@choicearchitecture.co.nz</div> 	Project:   Project Address:  Lot 176 Oakfields, Amberley	Drawing Title: <b>Roof Plan</b> Job No: 21126 Client: Marty Murchison Stage: Detailed  Designer: LF Drawn By: LF Technician: LF	Rev	Date	Description	Scale @ A3:	Print Date
			-	-02/11/2021	-Detailed Design	1:100	3/11/2021
			1	-03/11/2021	-Building Consent Issue		
						Sheet No: <b>A2.03</b>	Rev: <b>1</b>

Bracing Notes:

Where the distance between bracing lines at right angles to the plate is between 5.0m & 6.0m, the 90 x 45mm top plate shall be strengthened by the addition of a 140 x 35mm plate of at least the same grade as the top plate. Refer to NZS 3604:2011, 8.7.4.2.

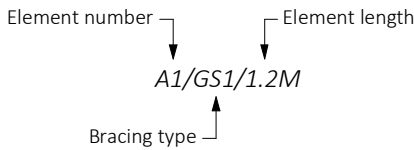
Openings in Bracing Elements:

**SMALL OPENINGS**  
Small openings (e.g. power outlets) of 90 x 90mm or less may be placed no closer than 90mm to the edge of the braced element. A block may need to be provided alongside the perimeter stud as shown below.

**LARGE OPENINGS**  
Openings above 90 x 90mm such as switch boards, recessed cabinets and TV's etc. should be placed outside of the bracing element or locate bracing on the other side of the wall framing.

Reading the Bracing Plan:

**MG** - 0.4m min. length. 9mm MGO Board fixed to one side. MiTek Handibracs to be installed each end of bracing element as per manufacturer's specifications - Refer to Supporting Documents for further information.




**Key:**  
Indicates: Truss chord, Top plate or ceiling battens shall be continuous to exterior walls to allow for perimeter fixing for bracing element



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# GIB EzyBrace® Bracing Software



## Demand Calculation Sheet

### Job Details

Name:	Lot 176 Oakfields
Street and Number:	Lot 176 Oakfields
Lot and DP Number:	Lot 176
City/Town/District:	Amberley
Designer:	Choice Architecture
Company:	Choice Architecture
Date:	15/10/21

### Building Specification

Number of Storeys	1
Floor Loading	2 kPa
Foundation Type	Slab

#### Single

Cladding Weight	Heavy
Roof Weight	Light
Room in Roof Space	No
Roof Pitch (degrees)	25
Roof Height above Eaves (m)	2.6
Building Height to Apex (m)	4.9
Ground to Lower Floor (m)	0.2

Average Stud Height (m)	2.4
Building Length (m)	16.26
Building Width (m)	12.58
Building Plan Area (m²)	173.52

### Building Location

**Wind Zone = High**

**Earthquake Zone 3**

Soil Type D & E (Deep to Very Soft)  
 Annual Prob. of Exceedance: 1 in 500 ( Default)

### Bracing Units required for Wind


	Along	Across
<b>Single Level</b>	660	872

### Bracing Units required for Earthquake

	Along & Across
<b>Single Level</b>	1417

GIB EzyBrace® Version 1/17

[illegible]

GIB EzyBrace® Bracing Software										
										
Single Level Across Resistance Sheet										
Job Name: Lot 176 Oakfields										
								Wind	EQ	
								Demand		
								872	1417	
								Achieved		
Line	Element	Length (m)	Angle (degrees)	Stud Ht. (m)	Type	Supplier	Wind (BUs)	EQ (BUs)	1713 196%	1530 108%
m	1	1.20	0	2.4	MG-1.2	HBB	136	121		
	2	1.20	0	2.4	MG-1.2	HBB	136	121		
	3	0.60	0	2.4	MG-0.6	HBB	46	41		
	External Length = 8.86									
n	1	2.40	0	2.4	MG-1.2	HBB	271	242	317 OK	283 OK
	2	2.40	0	2.4	MG-1.2	HBB	271	242		
	External Length = 2.19									
o	1	2.40	0	2.4	MG-1.2	HBB	271	242	542 OK	485 OK
	External Length = 1.53									
	1	1.20	0	2.4	MG-1.2	HBB	136	121	271 OK	242 OK
p	2	1.20	0	2.4	MG-1.2	HBB	136	121		
	External Length = 1.45									
q	1	1.80	0	2.4	MG-1.2	HBB	203	182	271 OK	242 OK
	2	1.00	0	2.4	MG-0.6	HBB	77	68		
	3	0.40	0	2.4	MG-0.4	HBB	31	27		
	External Length = 12.58									
								311 OK	277 OK	

NZBC H1 Calculations				
Insulated Floor Plan Area:		123.43	m² over frame (including interior wall of garage)	
Total Floor Area		173.52		
Foundation Perimeter Ratio		60.28		
Calculated Areas			Wall Length X	Stud Height
North	Wall area:	39.0	16.26	2.4
	Window/Door area:	12.84		
	Wall Open Percentage	33%		
East	Wall area:	30.2	12.58	2.4
	Window/ Door area:	3.92		
	Wall Open Percentage	13%		
South	Wall area:	39.0	16.26	2.4
	Window/Door area:	2.24		
	Wall Open Percentage	6%		
West	Wall area:	30.2	12.58	2.4
	Window/Door area:	3.08		
	Wall Open Percentage	10%		

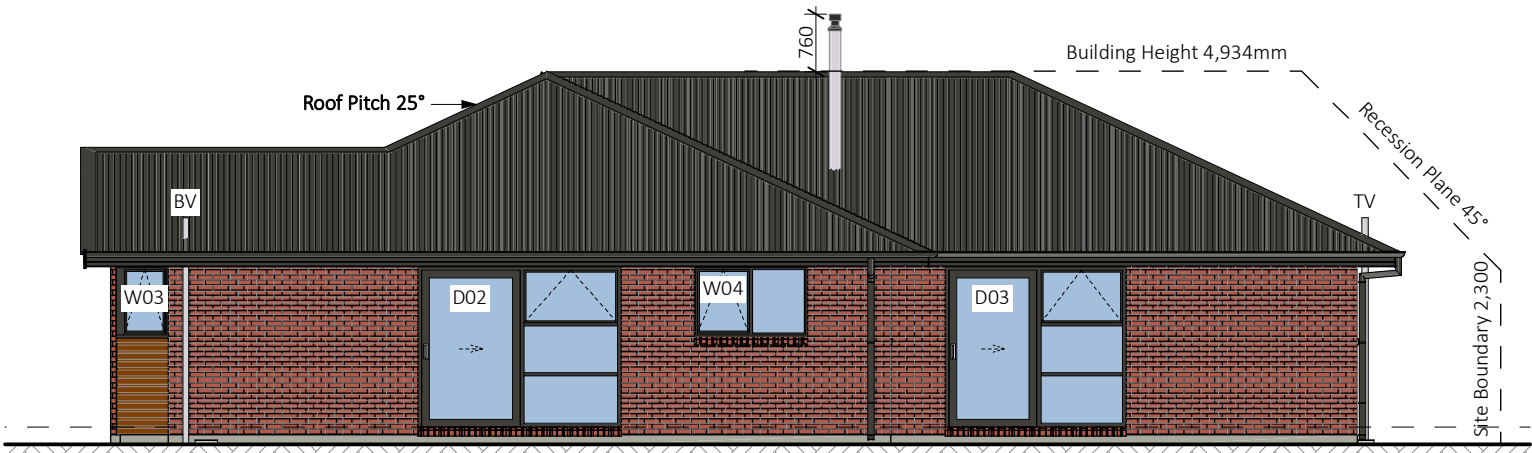
Total	ESW Wall Area	99.4	
	Entire Building Wall area:	138.4	
	Entire Buiding Window/Door area:	22.08	
	ESW Window/Door Area:	9.24	
	Percent window area:	16.0%	
	ESW Percent window area	9.3%	
Is the window area of the walls less than 30%?			Yes
No			

<u>Natural Light:</u>	<u>Window Area/Room Area</u>		
Rooms	Window Area (Glazed)	Room Area	Total
Living/Dining/Kitch	8.38	42.14	20%
Main Bedroom	3.73	17.48	21%
Ensuite	0.37	5.6	7%
Bedroom 1	0.83	9.42	9%
Bathroom	0.83	7.2	12%
Bedroom 2	0.83	9.42	9%
Entry	0	3.18	0%

<b>Ventilation:</b>		<b>Vented Area/Room Area</b>	
<b>Rooms</b>	<b>Window Area (Vented)</b>	<b>Room Area</b>	<b>Total</b>
Living/Dining/Kitch	5.31	42.14	13%
Main Bedroom	3.16	17.48	18%
Ensuite	0.43	5.6	8%
Bedroom 1	0.45	9.42	5%
Bathroom	0.45	7.2	6%
Bedroom 2	0.45	9.42	5%
Entry	1.68	3.18	53%

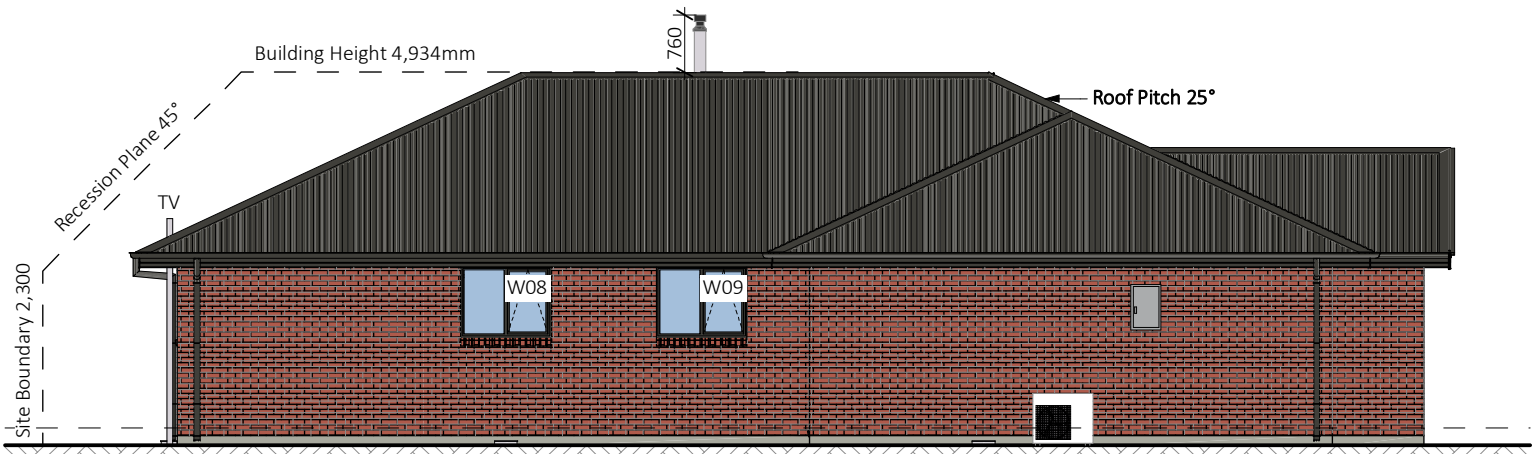
Whilst Choice Architecture has used reasonable means to ascertain dimensions on site; Choice Architecture does not warrant or guarantee the accuracy of dimensions supplied or implied on the drawings. For all intents and purposes, all dimensions are to be confirmed onsite. Do not scale off drawings

**Roof Reflectance**  
All roof finishes are not to exceed 30% light reflectance value (LRV).



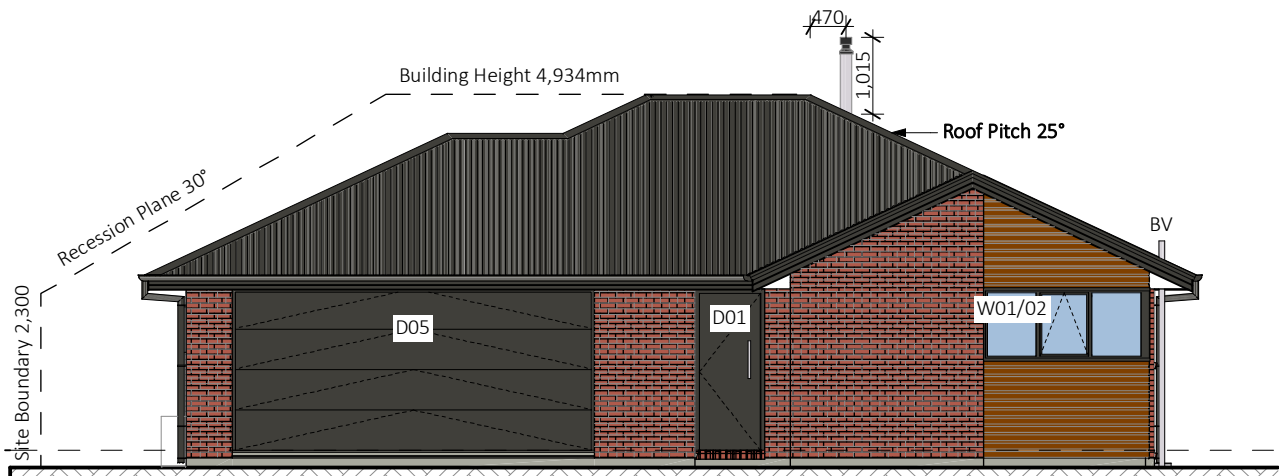
North Elevation

Scale 1:100



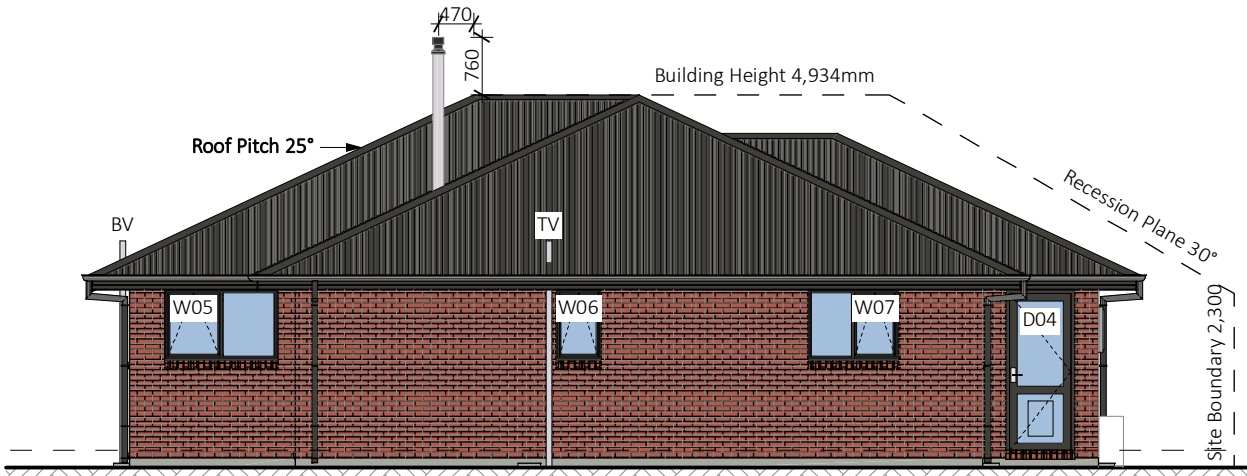
South Elevation

Scale 1:100



East Elevation

Scale 1:100



West Elevation

Scale 1:100

- Roof Cladding**  
0.40 BMT Colorsteel Longrun Corrugate on Self-supporting building underlay
- Roof Pitch**  
25°
- Exterior Cladding**  
-70 series Brick Veneer over 50mm cavity installed as per manufacturer's specifications & NZS4210 (120mm Rebate).  
-Earthen Radiata HT51 Horizontal Shiplap over 40mm cavity installed as per manufacturer's specifications.
- Soffit Lining**  
9mm Magnum Board Soffit Lining.
- Windows**  
Selected colour powder-coated aluminium joinery with all glazing to comply with NZS 4223.
- Glazing and glazed openings to comply with NZS 4223.3:2016 Glazing in buildings - Part 3: Human impact safety requirements, NZS 4211:2008:**  
Specification for performance of windows and New Zealand Building Code Clauses: F2 Hazardous Building Materials & F4: Safety from Falling.

BUILDING ENVELOPE RISK MATRIX		
All Elevation		
Risk Factor	Risk Severity	Risk Score
Wind zone (per NZS 3604)	High risk	1
Number of storeys	Low risk	0
Roof/wall intersection design	Low risk	0
Eaves width	Low risk	0
Envelope complexity	Medium risk	1
Deck design	Low risk	0
Total Risk Score:		2

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Note:

- Confirm all opening sizes onsite prior to installation
- Sizes shown are rough opening sizes and & leaf sizes
- Client to confirm window & door style & finishes
- All doors & sliders are taken from External Elevation
- All windows are taken from External Elevation
- Refer to ground floor plan for accurate opening location

-Joinery:

All exterior window and door joinery to be **Selected colour powder-coated aluminium joinery with all glazing to comply with NZS 4223**.and dressed timber reveals unless noted otherwise. Refer to specification for full details.

- Internal Door Leaf Height: -2400mm
- Internal Door Leaf Width: -810mm(unless noted on plan).
- Garage Door: -Coloursteel sectional.
- Lintels: -Refer to the Truss Design for lintel sizes.
- Safety Glazing (SG): -To all windows less than 800mm above FFL, unless a transom is less than 1.0m from FL.
- To all windows in wet areas less than 2.0m above FFL.
- To all doors (bottom pane only where a transom is used.)
- To Bathroom and Ensuite

Glazing and glazed openings to comply with NZS 4223.3:2016 Glazing in buildings - Part 3: Human impact safety requirements, NZS 4211:2008: Specification for preformance of windows and New Zealand Building Code Clauses: F2 Hazardous Building Materials & F4: Safety from Falling

Standard glazing units used:

All Double Glazed Units

Comply with Table G2, NZS 4218:2004 & meet 0.26 (msqo C/W)

Standard Unit

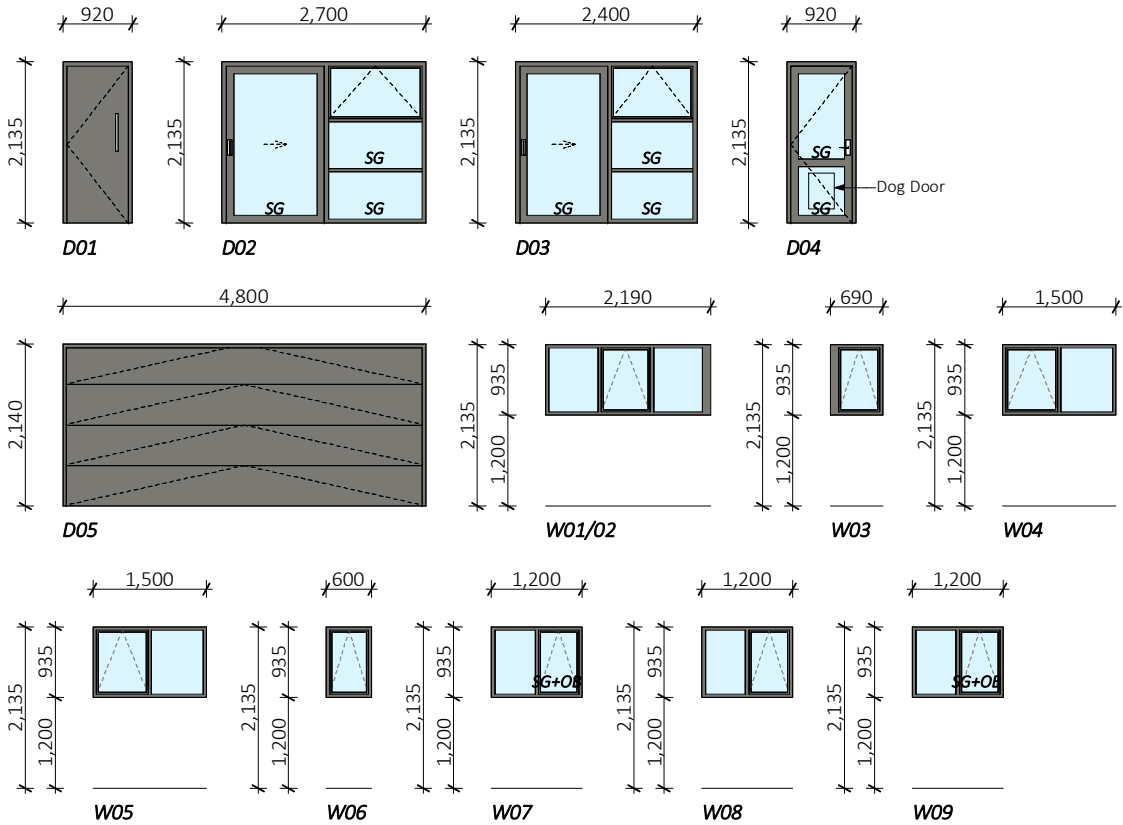
4mm Glass / 12mm Air Gap / 4mm Glass

Slider Unit

5mm Glass / 8mm Air Gap / 5mm Glass

Safety Panel

4mm Toughened / 8mm Air Gap / 6.38mm Laminate



## Door & Window Schedule

Scale 1:100

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Office 1, Level 1  
Lambert Building, Conway Lane  
172 High Street, Rangiora 7400  
hello@choicearchitecture.co.nz



Project:

Lot 176 Oakfields

Project Address:

Lot 176 Oakfields, Amberley

Drawing Title:

Door & Window Schedule

Job No:

21126

Designer:

LF

Client:

Marty Murchison

Drawn By:

LF

Stage:

Detailed

Technician:

LF

Rev

Date

Description

1 -02/11/2021

-Detailed Design

1 -03/11/2021

-Building Consent Issue

-

-

-

-

-

-

Scale @ A3:

1:100

Print Date

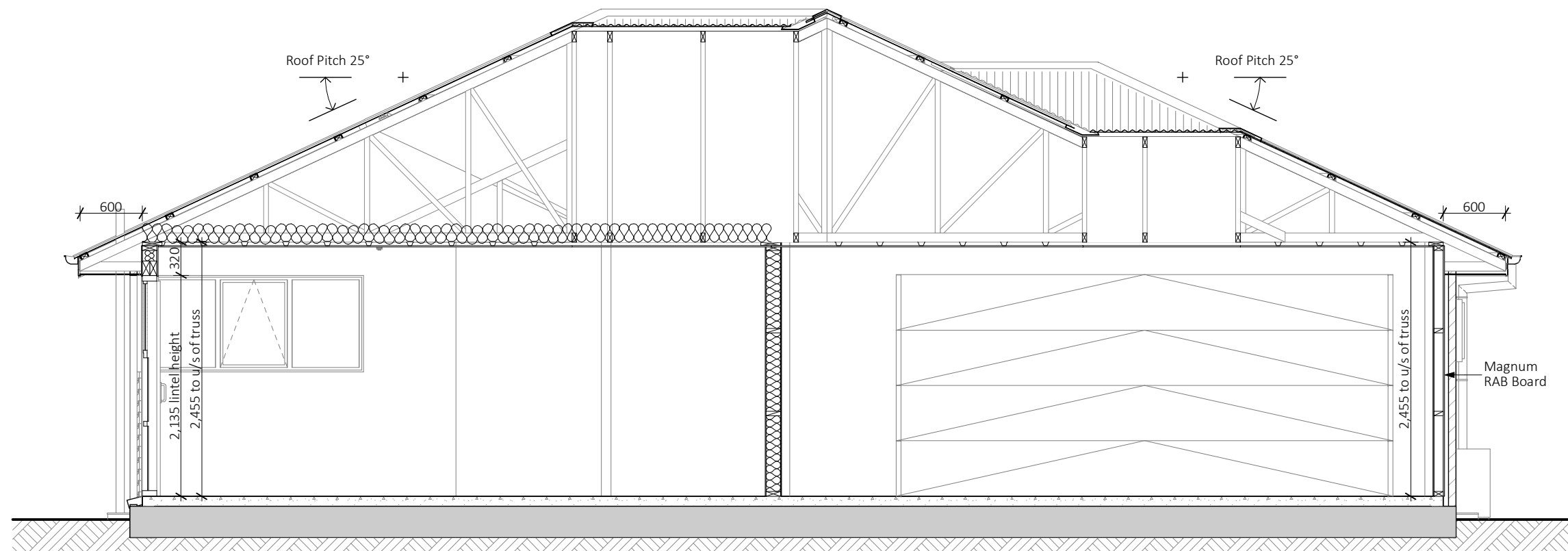
3/11/2021

Sheet No:

A3.02

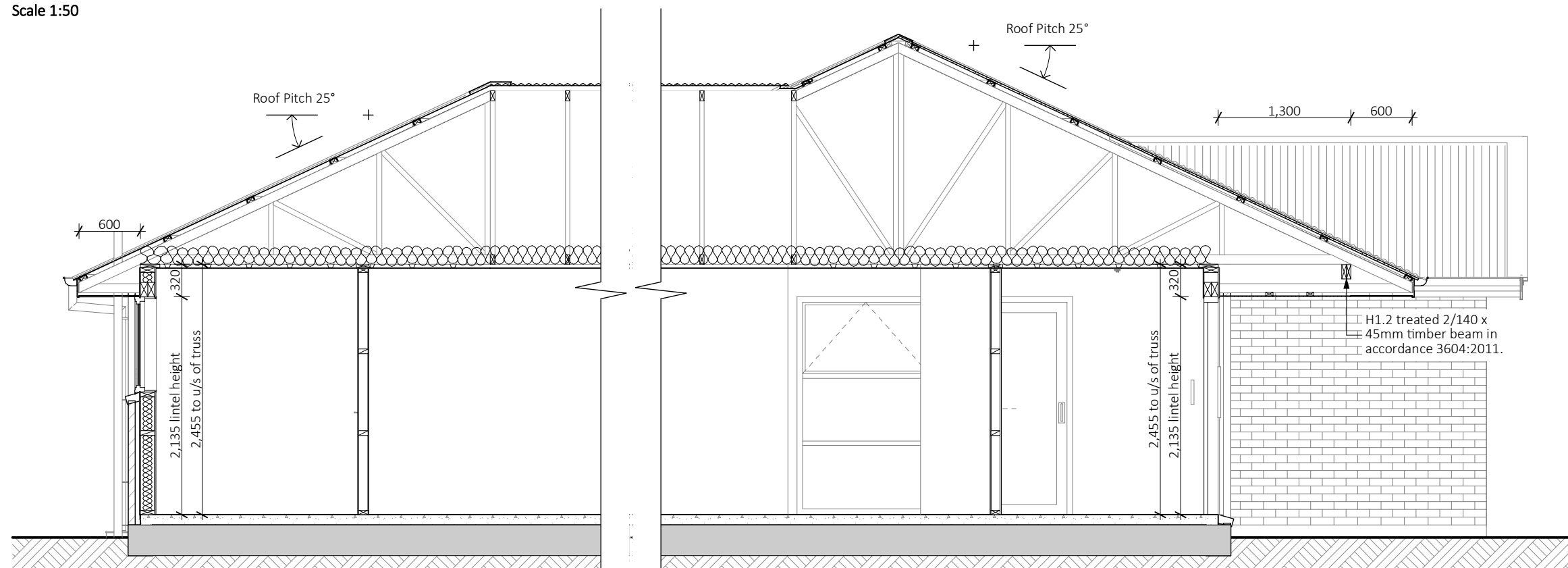
Rev:

1



## Section A

Scale 1:50



## Section B

Scale 1:50

## Foundations

- Allied TC1 Rib Raft Qpod Foundation.
- 300mm wide x 305mm deep Concrete Footing reinforced with 2 x HD12 Bars at bottom and 1 x HD12 bar at top
- 100mm conc ribs reinforced with 1 x HD12 Rod @ 1100crs max

### Timber framing

-H1.2 treated LVL8 90x45mm timber framing studs @ 600mm crs. max, Dwangs @ 800mm crs. max. (Check Cladding Requirements) (Refer to NZS3604 table 8.2)

-H1.2 treated LVL8 140x45mm timber framing studs @ 600mm crs max, Dwangs @ 800mm crs max.

### Bottom Plate Fixing

-Pryda Bottom Plate Anchors with 75x4mm dia. concrete nails adjacent to anchor 70mm min from edge of slab. as per manufacturers specifications. @ 900mm crs. max as per NZS3604:2011. Refer to bracing plan for additional hold down fixings.

-75 x 8mm shot fired fastenings with 16mm washers @ 600mm crs within 150mm each end of plate. Refer to bracing plan for additional hold down fixings.

### Roof Cladding/Construction

- Prefabricated roof trusses @ 900mm crs max fix to top plate with 2/100 x 3.75mm skewed nails & 2/wiredogs each side in accordance to Manufacturer documents & producer statement.
- 70x45 H1.2 SG8 Purlins fixed to trusses with 1/10g x 80mm self-drilling screw or 2/100 x 3.75mm skewed nails & 1/wiredog (Alt 2.4KN Fixing). Top & bottom purlins shall be @ 600mm crs & 900crs to body.
- 0.40 BMT Colorsteel Longrun Corrugate on Self-supporting building underlay

### Spouting & Gutter/Soffit Lining

- Selected colorsteel Quad spouting (5550mm<sup>2</sup>) cross sectional area fix to 185 Colorsteel fascia
- 9mm Magnum Board Soffit Lining.

RAB Board/Exterior Cladding

- 9mm Magnum Board Rigid Air Barrier
- Selected Building Wrap to external framing for garage only
- 70 series Brick Veneer over 50mm cavity installed as per manufacturer's specifications & NZS4210 (120mm Rebate).
- Earthen Radiata HT51 Horizontal Shiplap over 40mm cavity installed as per manufacturer's specifications.

### Wall & Ceiling Linings

- 9mm Magnum Board lining installed over timber framing as per manufacturer's specifications. 9mm Magnum Board to be used in wet areas.
- 9mm Magnum Board ceiling lining fix to 35mm Metal Battens @ 600c/s, installed as per manufacturer's specifications.

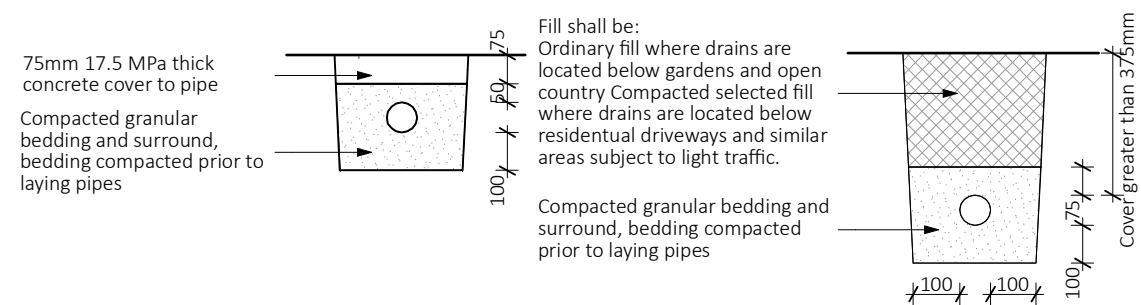
### Wall & Ceiling Insulation

- R3.2 140mm Thick Wall Insulation
- R4.0 180mm Thick Ceiling Insulation

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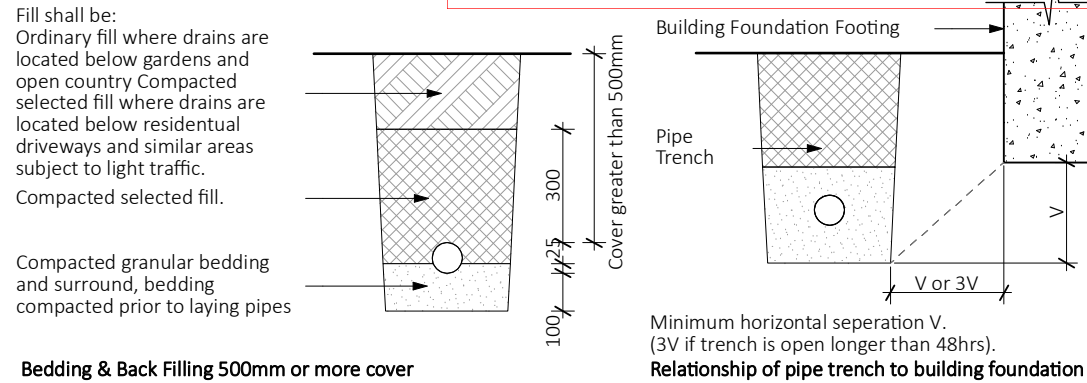


Bedding & Back Filling 125mm - 375mm cover

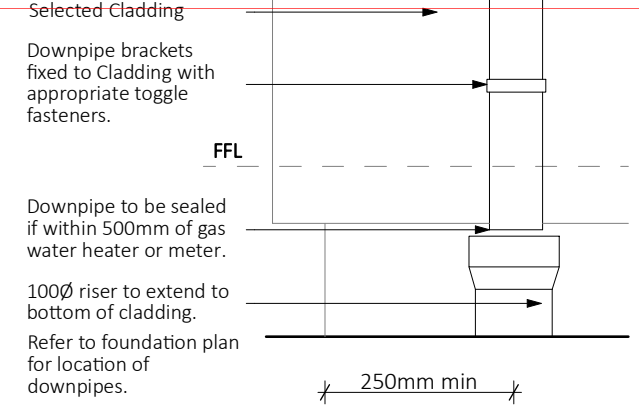
**Bedding & Back Filling 375mm - 500mm cover**

## Bedding & Back Fill

Scale 1:20

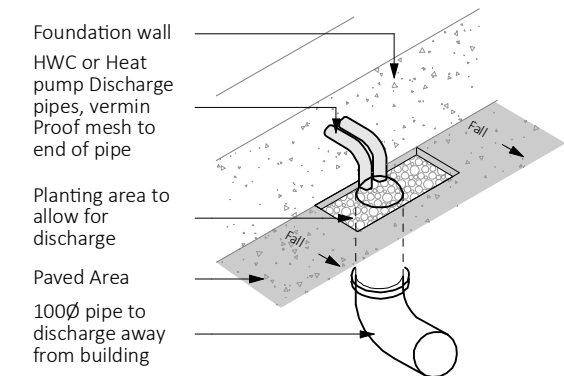
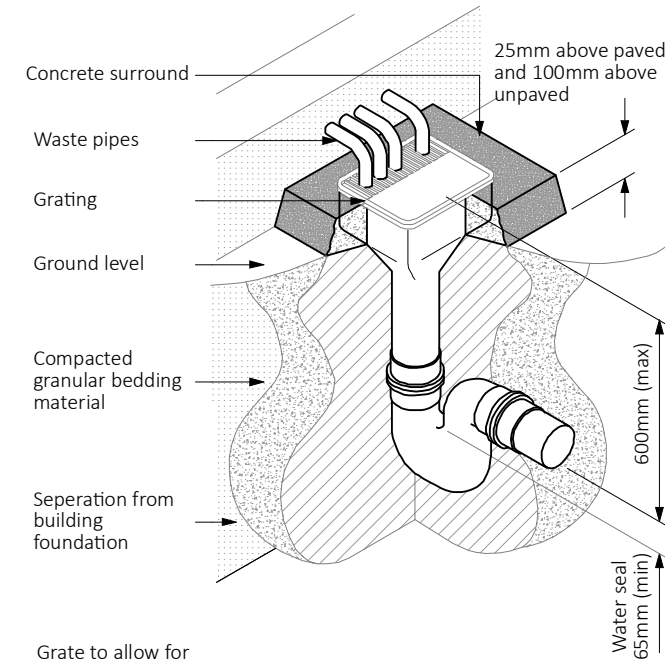


Bedding & Back Filling 500mm or more cover



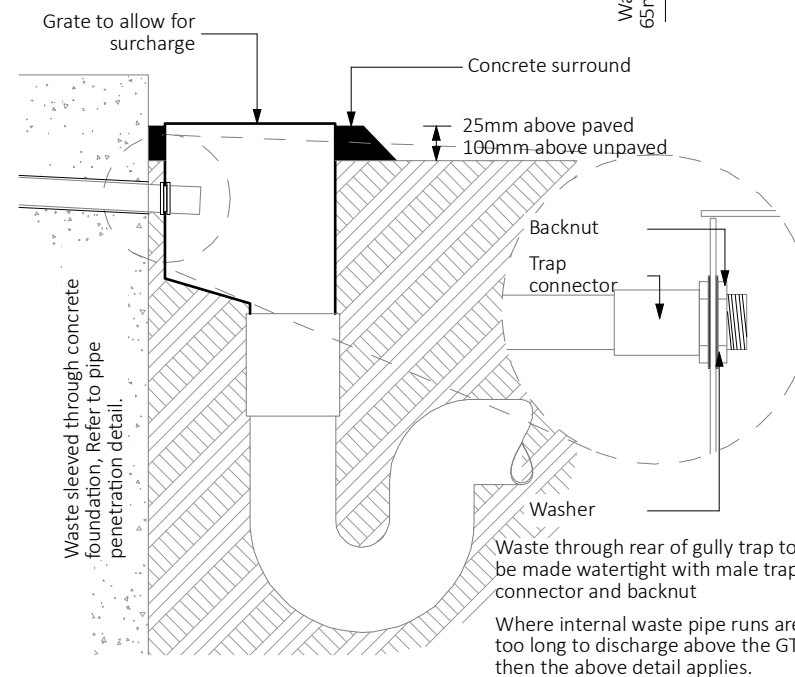
## Down Pipe Offset

Scale 1:10



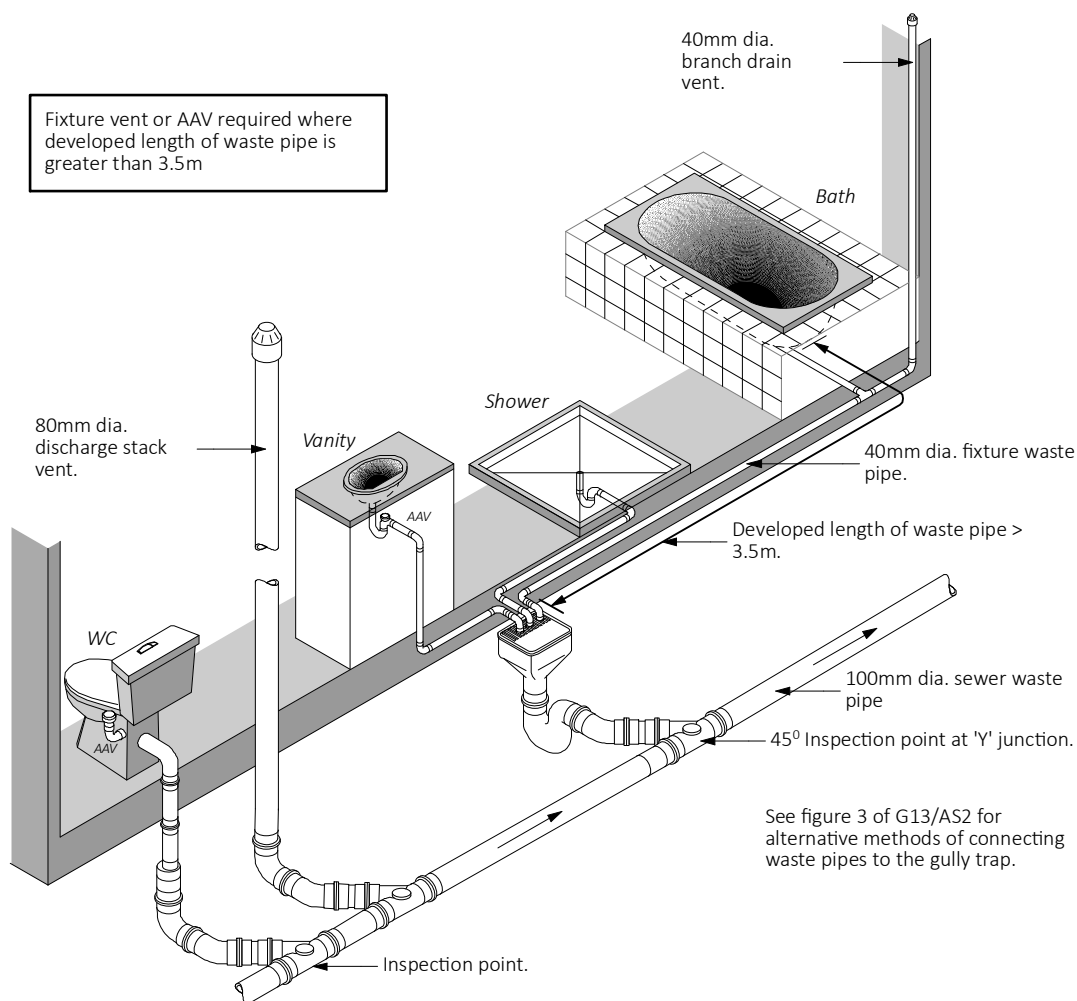
HWC Discharge Pipe to paved area

Scale 1:50

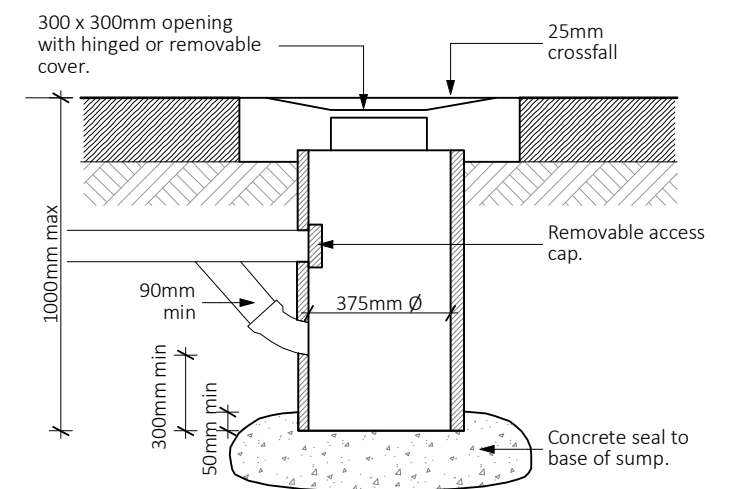


## Typical Gully Trap

Scale 1:50



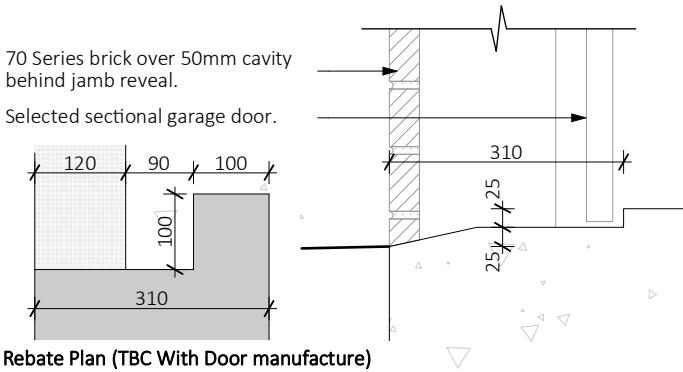
## Typical Plumbing Schematic



For paved areas  $>80\text{m}^2$  &  $<110\text{m}^2$

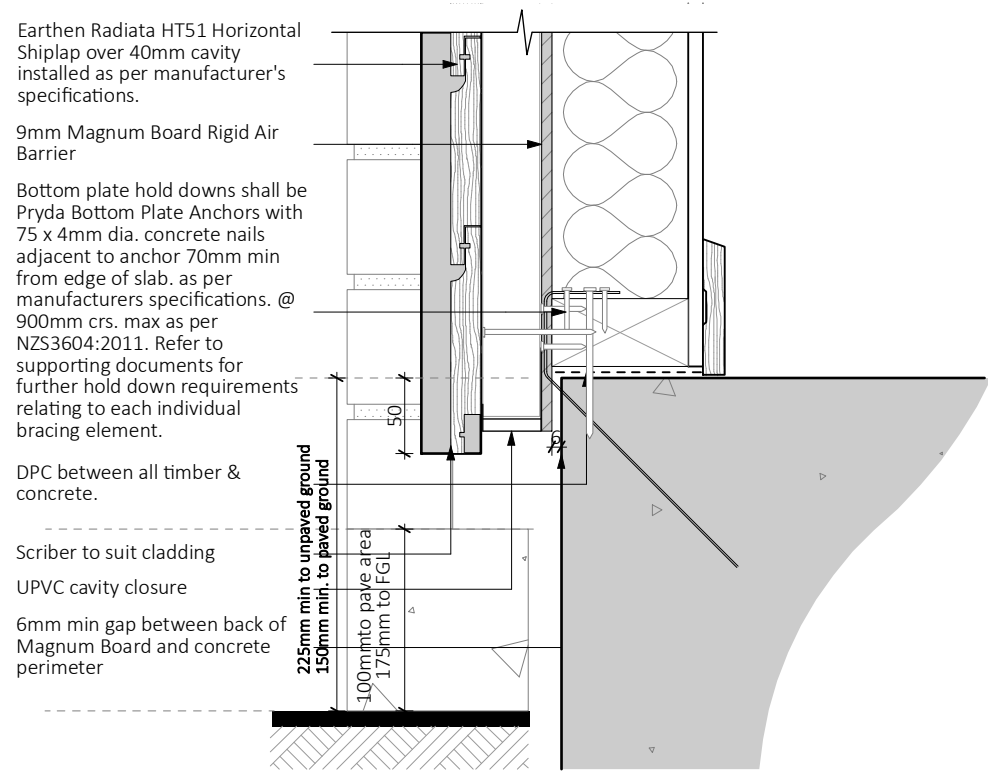
## Type 1 Sump Detail

Scale 1:20



310mm Garage Door Rebate

Scale 1:10



Earthen Radiata Shiplap Base

Scale 1:5

H3.1 20mm Pine reveal  
Note: reveal fixed to slab with 8gx75mm screws driven into rawl plugs or similar. Pre fill holes with sealant prior to installation of fixings @ 450mm crs. and 150mm from each corner  
Turn up flashing tape 100mm min. at trimmer studs

Selected colour powder-coated aluminium joinery with all glazing to comply with NZS 4223.

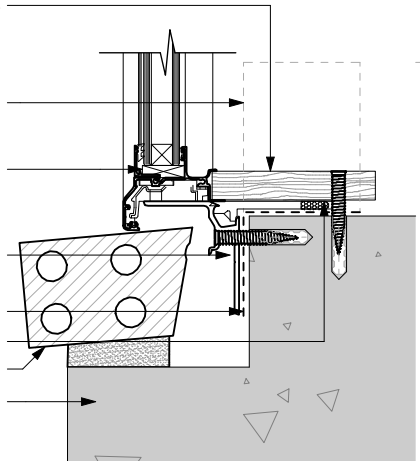
WANZ support bar as per window manufactures specifications.

Flashing tape

Continuous airseal over PEF rod

Selected brick sill set to 5° angle

Foundation wall



Typical Brick Door Sill

Scale 1:5

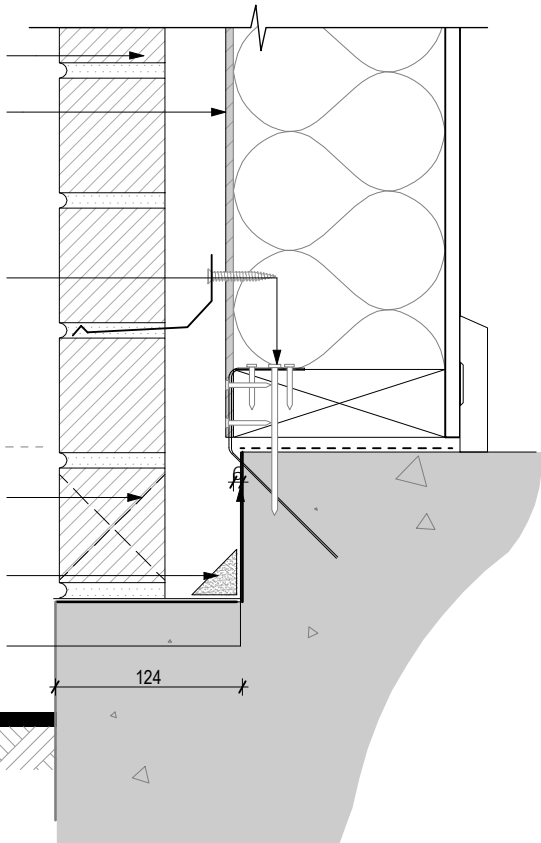
70 series brick veneer cladding , ties as per NZS4210  
9mm Magnum Board Rigid Air Barrier  
Bottom plate hold downs shall be Pryda Bottom Plate Anchors with 75 x 4mm dia. concrete nails adjacent to anchor 70mm min from edge of slab. as per manufacturers specifications. @ 900mm crs. max as per NZS3604:2011. Refer to supporting documents for further hold down requirements relating to each individual bracing element. DPC between all timber & concrete.

70mm weep holes @ 800mm max. evenly spaced over bottom course. Ties shall be placed on every 2nd course @ 600mm crs. horiz.

Mortar fillet angled to direct water to outside edge of foundation.

6mm min gap between back of Magnum Board and concrete perimeter

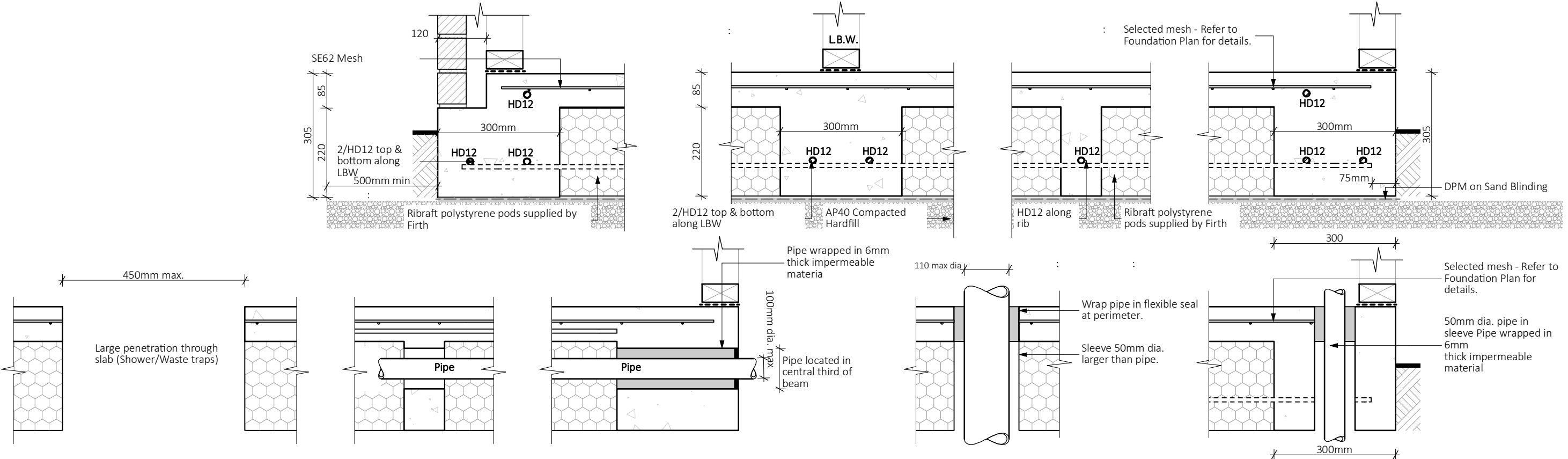
Note:  
2 coats of bituminous liquid (Mulseal of similar) to brick rebate.



Brick Base

Scale 1:5

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TC1 Allied Rib Raft Details

Scale 1:10

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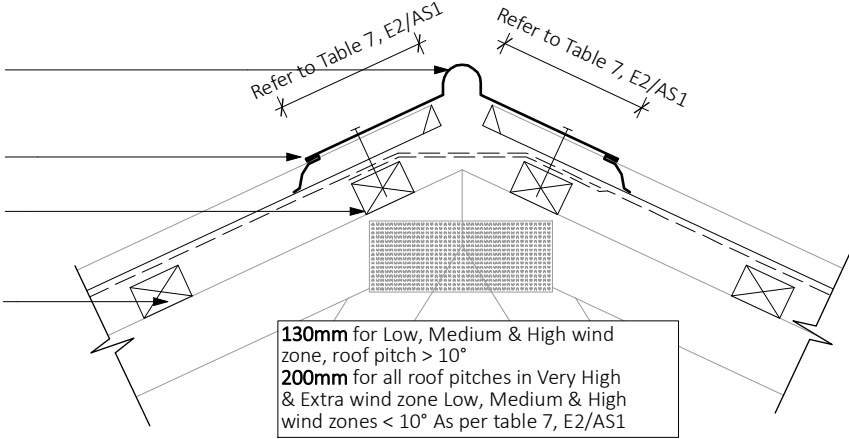


Roofing manufacturers 0.55mm BMT rolled colour coated steel ridge flashing c/w malleable edge folded over profiles.

Selected Longrun coloursteel roofing

Building wrap overlapped at ridge.

70x45mm H1.2 treated SG8 purlins at 900mm crs max fixed to trusses with 1/10g x 80mm self-drilling screw.



Ridge Capping

Scale 1:10

Note:  
For other ridge to hip flashings, refer to New Zealand Metal Roof and Wall Cladding code of practice.

Ridge flashing

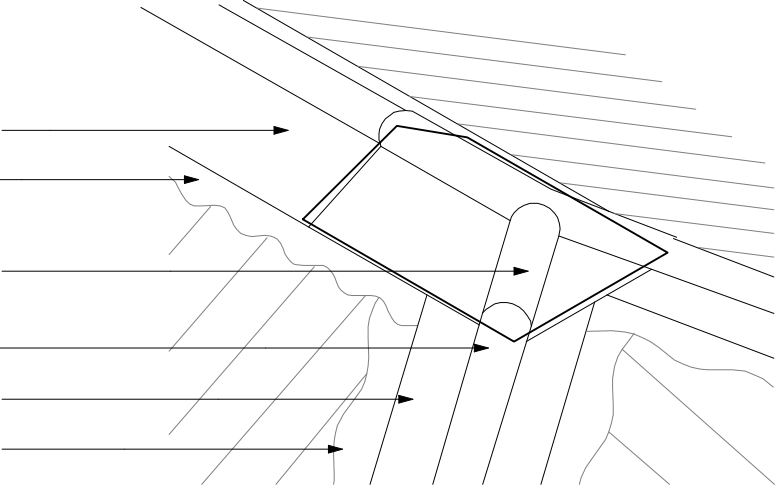
Soft edge dressed over corrugate

Butyl under-flashing to ridge and hip flashings.

Preformed 3-way roll cap or site made flashing

Hip flashing

Soft edge dressed over corrugate



Hip Junction

Scale 1:10

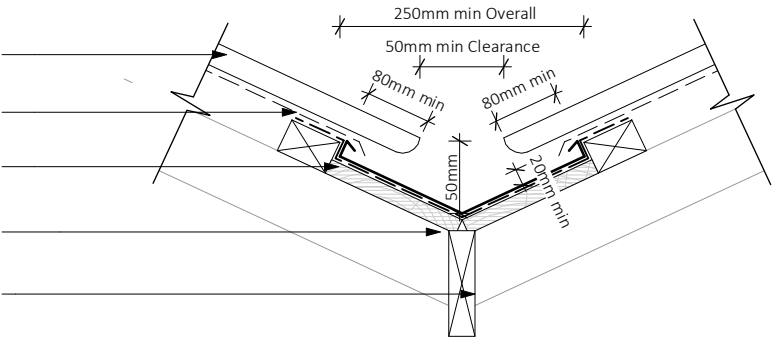
Selected Longrun coloursteel roofing

Self-supporting roof underlay

18mm H1.2 Solid timber support for valley gutter

Roof wrap continuous under gutter if copper based treatments are used

Valley rafter



Valley Gutter

Scale 1:10

Timber Lintel

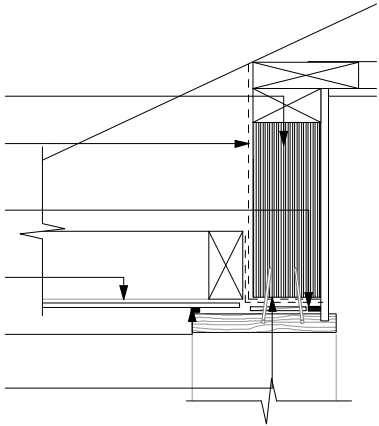
Building Wrap to exterior framing

H3.1 packing @ fixing crs with Continuous air seal over PEF rod

9mm Magnum Board Soffit Lining.

Bead MS sealant to soffit lining

Flashing tape installed to manufacturers specifications



Garage door Head to soffit Detail

Scale 1:10

9mm Magnum Board Rigid Air Barrier

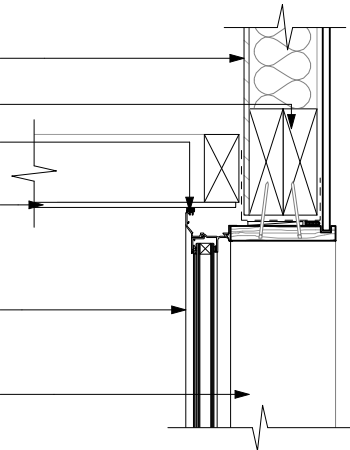
Timber lintel

Bead MS sealant to soffit lining

9mm Magnum Board Soffit Lining.

Selected colour powder-coated aluminium joinery with all glazing to comply with NZS 4223. Double glazing to all except service areas and garage.

H3.1 treated 20mm pine reveal



Typical joinery To Soffit

Scale 1:10

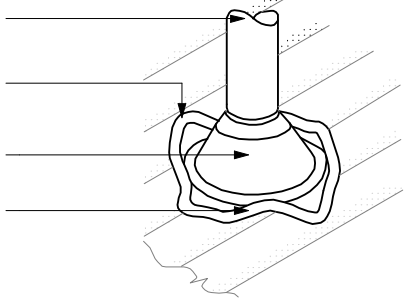
**NOTE:**  
(1) Max. roof pitch for flashing 45°, minimum pitch 10° if base of flange covers one or more complete troughs.  
(2) For pipes up to 85mm dia.

Pipe

Malleable flange screw or rivet fixed, and sealed to roofing profile. Fit neoprene washers to all screw fixings.

EPDM flexible cone sleeve

Flashing fixed diagonally to roofing profile to minimise holding of discharge water.



Roof Penetration Detail

Scale 1:10

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Selected colour powder-coated aluminium joinery with all glazing to comply with NZS 4223.

H3.1 treated 20mm pine reveal

Turn up flashing tape 100mm min. at trimmer studs

WANZ support bar screw fixed to trimmer

Continuous air seal over PEF rod

Selected conc sill set to 15° minimum angle

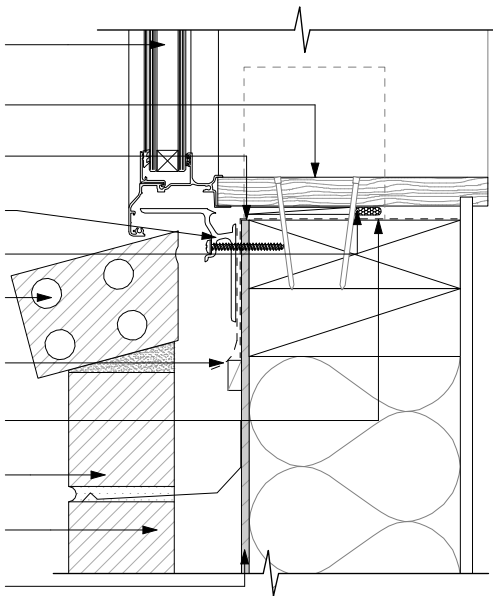
Malthoid DPC flashing with kick out to extend 200mm each side of window

Flashing tape installed to manufacturers specifications

Sill Vents under opening more then 2.4m

70 series brick veneer cladding , ties as per NZS4210

9mm Magnum Board Rigid Air Barrier



Window Sill

Scale 1:5

70 series brick veneer cladding , ties as per NZS4210

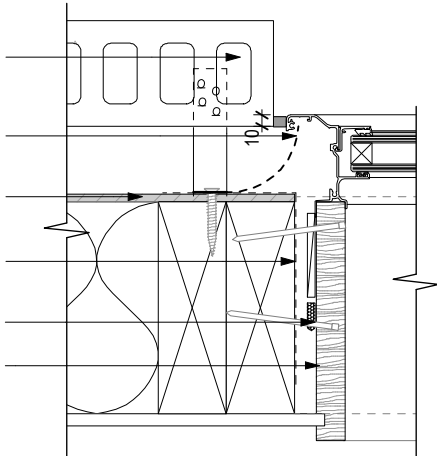
150mm Malthoid DPC flashing

9mm Magnum Board Rigid Air Barrier

Flashing tape installed to manufacturers specifications

Continuous air seal over PEF rod

H3.1 treated 20mm pine reveal



Window Jamb

Scale 1:5

70 series brick veneer cladding , ties as per NZS4210

Flexible waterproof sealant

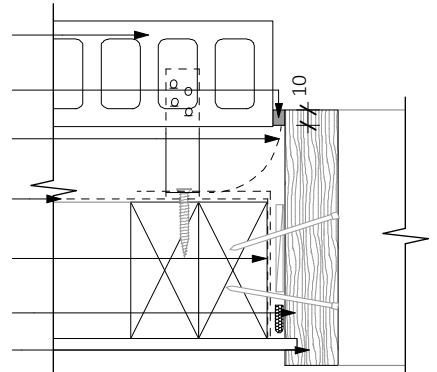
150mm Malthoid DPC flashing

Building Wrap to exterior framing

Flashing tape installed to manufacturers specifications

Continuous air seal over PEF rod

H3.1 treated 20mm pine reveal



Garage Jamb

Scale 1:5

70 series brick veneer cladding , ties as per NZS4210

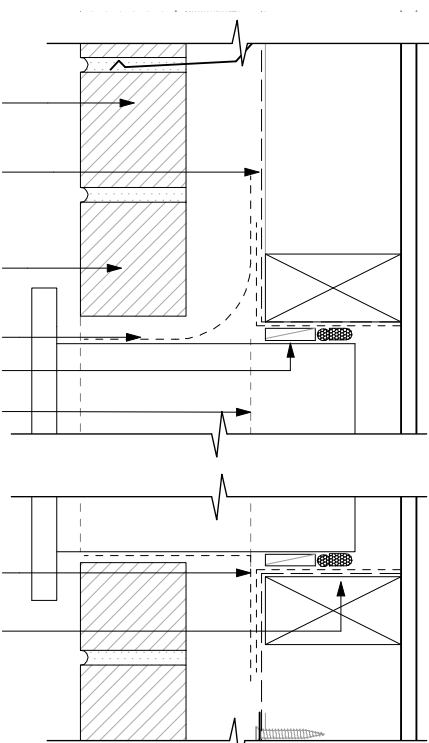
Building wrap to all exterior framing.

70mm weep holes @ 800mm max. evenly spaced over lintel. Ties shall be placed on every 2nd course @ 600mm crs. horiz. above lintel

Flashing Tape

Continuous air seal over PEF rod

Flashing tape to meter box jambs.



Flashing tape to meter box jambs.

Continuous air seal over PEF rod

Meterboard

Scale 1:5

70 series brick veneer cladding , ties as per NZS4210

Building Wrap to external Framing

Sealant between brick and joinery

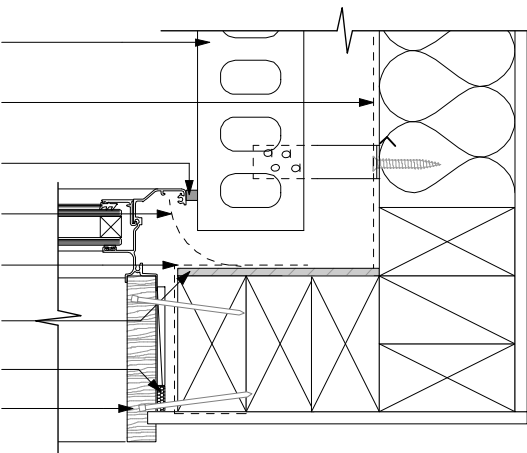
150mm Malthoid DPC flashing

Flashing tape installed to manufacturers specifications

9mm Magnum Board Rigid Air Barrier

Continuous air seal over PEF rod

H3.1 treated 20mm pine reveal



Joinery Junction

Scale 1:5

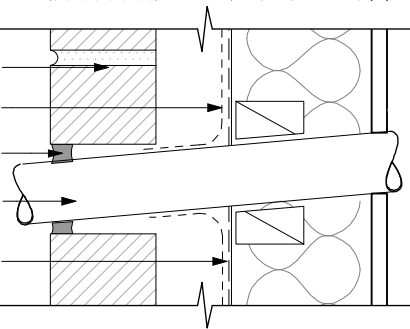
Brick Cladding

Flashing tape all round pipe

Sealant between pipe & Cladding

Pipe penetration sloping to outside

Building Wrap to external framing



Pipe Penetration

Scale 1:5

Selected longrun coloursteel roofing on Self-supporting roof underlay

-70x45 H1.2 SG8 Purlins fixed to trusses with 1/10g x 80mm self-drilling screw or 2/100 x 3.75mm skewed nails & 1/wiredog (Alt 2.4KN Fixing). Top & bottom purlins shall be @ 600mm crs & 900crs to body.

-Prefabricated roof trusses @ 900mm crs max fix to top plate with 2/100 x 3.75mm skewed nails & 2/wiredogs each side in accordance to Manufacturer documents & producer statement.

Selected Coloursteel fascia and spouting.

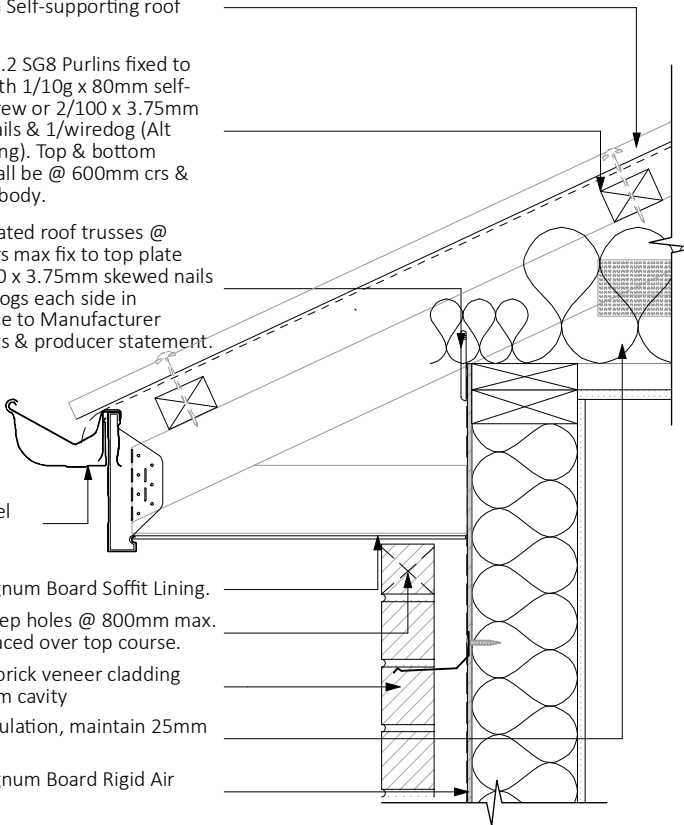
9mm Magnum Board Soffit Lining.

70mm weep holes @ 800mm max. evenly spaced over top course.

70 series brick veneer cladding over 50mm cavity

Ceiling insulation, maintain 25mm gap

9mm Magnum Board Rigid Air Barrier



Typical Eaves Detail

Scale 1:10

Selected Colorsteel longrun Roofing over roof underlay

H1.2 90x45mm outriggers @ 900mm crs max

Selected coloursteel barge flashing shall cover 2 full crest and finish in next trough min. as shown.

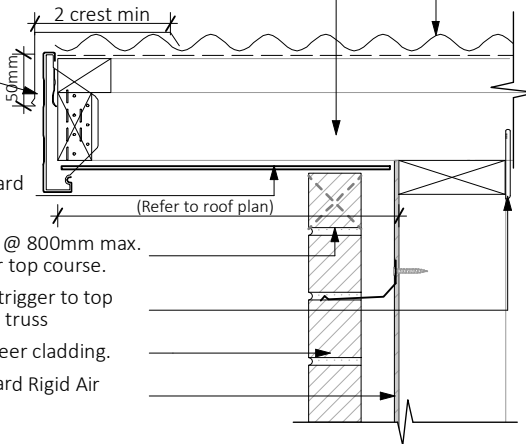
9mm Magnum Board Soffit Lining.

70mm weep holes @ 800mm max. evenly spaced over top course.

Wire-dog fixing outrigger to top chord of gable end truss

70 series brick veneer cladding.

9mm Magnum Board Rigid Air Barrier



Typical Barge Detail

Scale 1:10

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Earthen Radiata HT51 Horizontal Shiplap over 40mm cavity installed as per manufacturer's specifications.

9mm Magnum Board Rigid Air Barrier

Flashing tape over colorsteel flashing

Upvc Cavity Closure

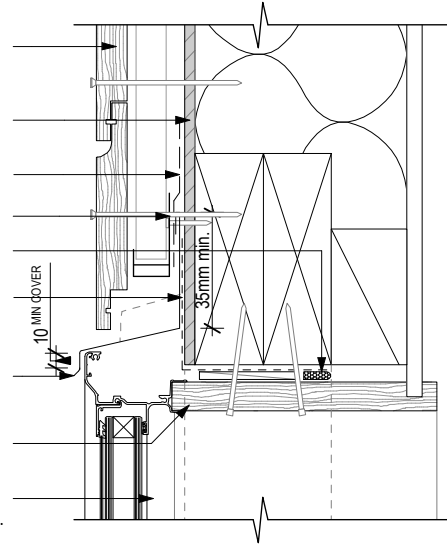
Continuous air seal over PEF rod

Flashing tape installed to manufacturers specifications

Colour steel Head flashing 15° fall min. Ends of head flashing to be turned up 20mm. Colour to match selected joinery.

H3.1 treated 20mm pine reveal

Selected colour powder-coated aluminium joinery with all glazing to comply with NZS 4223.



Window Head

Scale 1:5

Selected colour powder-coated aluminium joinery with all glazing to comply with NZS 4223.

Turn up flashing tape 100mm min. at trimmer studs

H3.1 25mm pine reveal

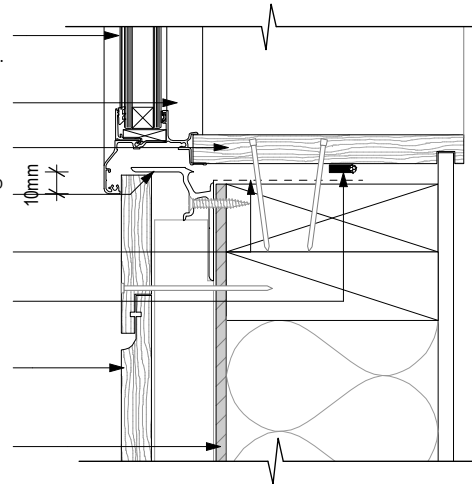
WANZ support bar screw fixed to trimmer

Flashing tape installed to manufacturers specifications

Continuous air seal over PEF rod

Earthen Radiata HT51 Horizontal Shiplap over 40mm cavity installed as per manufacturer's specifications.

9mm Magnum Board Rigid Air Barrier



Window Sill

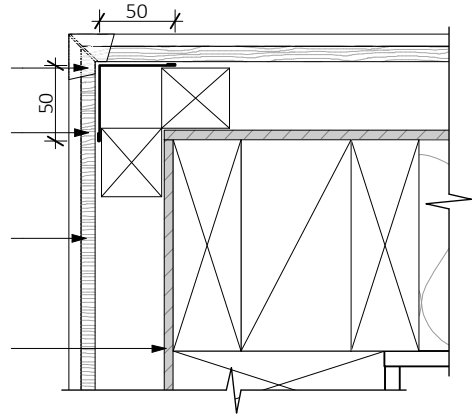
Scale 1:5

Tight Mitred joint to weatherboard

Corner flashing with 50mm min cover over cladding

Selected Rusticated timber weatherboards fixed in accordance with manufacturers specifications.

9mm Magnum Board Rigid Air Barrier



External Corner

Scale 1:5

0.40mm BMT selected corrugated coloursteel roofing over self-supporting roof underlay

Selected coloursteel barge flashing

Selected coloursteel barge

H1.2 70x45mm purlins @ 600mm crs. top and bottom, 900crs max.

H1.2 90x45mm outriggers @ 900mm crs max

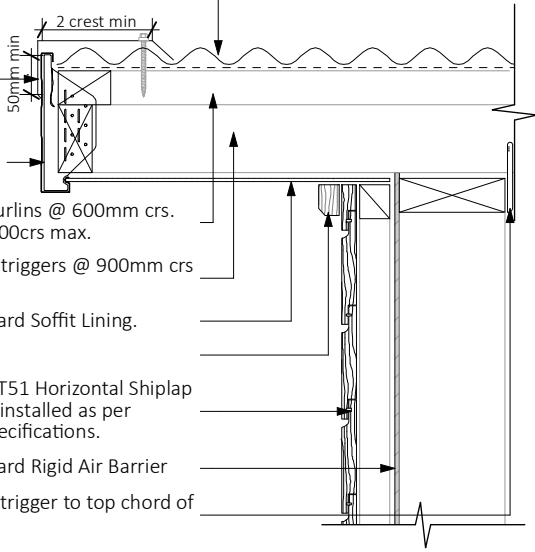
9mm Magnum Board Soffit Lining.

H3.2 Scotia bead.

Earthen Radiata HT51 Horizontal Shiplap over 40mm cavity installed as per manufacturer's specifications.

9mm Magnum Board Rigid Air Barrier

Wire-dog fixing outrigger to top chord of gable end framing



Typical Barge Detail

Scale 1:10

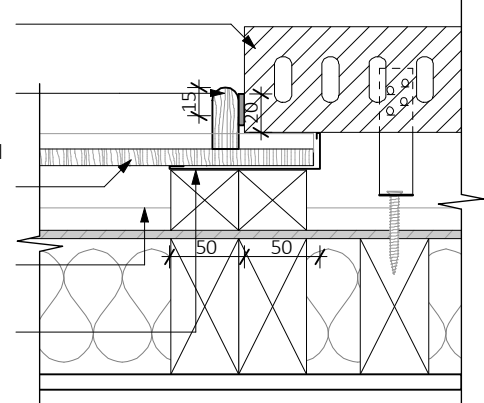
70series brick Veneer over a 50mm cavity.

Suitable size pre primed scribe to suit cladding & Joinery sealed to brick with flexible sealant

Earthen Radiata HT51 Horizontal Shiplap over 40mm cavity installed as per manufacturer's specifications.

9mm Magnum Board Rigid Air Barrier

Galv. metal or PVC back flashing with hems to both ends. with 50mm min cover



Vertical Cladding Junction

Scale 1:5

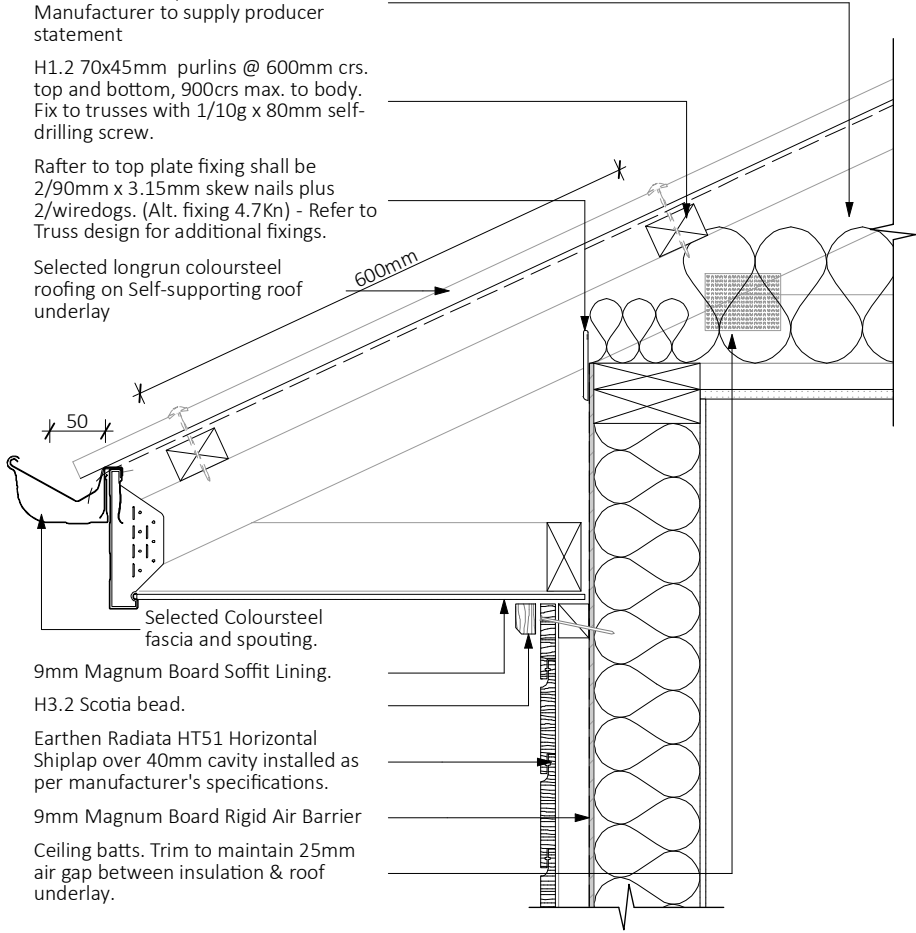
Prefabricated roof trusses @ 900crs to manufacturers specifications.

Manufacturer to supply producer statement

H1.2 70x45mm purlins @ 600mm crs. top and bottom, 900crs max. to body. Fix to trusses with 1/10g x 80mm self-drilling screw.

Rafter to top plate fixing shall be 2/90mm x 3.15mm skew nails plus 2/wiredogs. (Alt. fixing 4.7Kn) - Refer to Truss design for additional fixings.

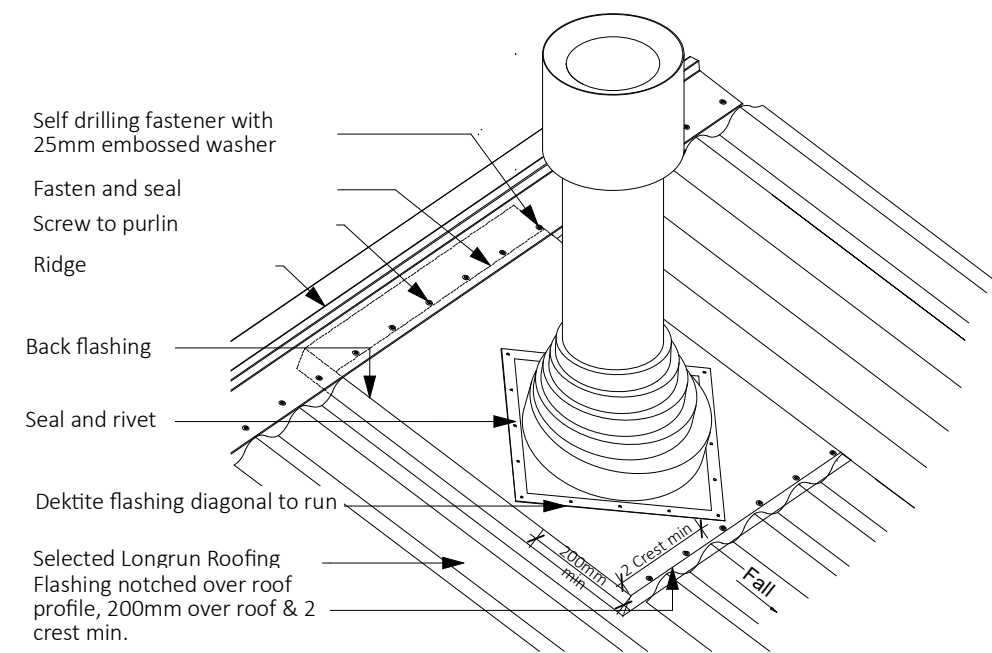
Selected longrun coloursteel roofing on Self-supporting roof underlay



Typical Eaves Detail

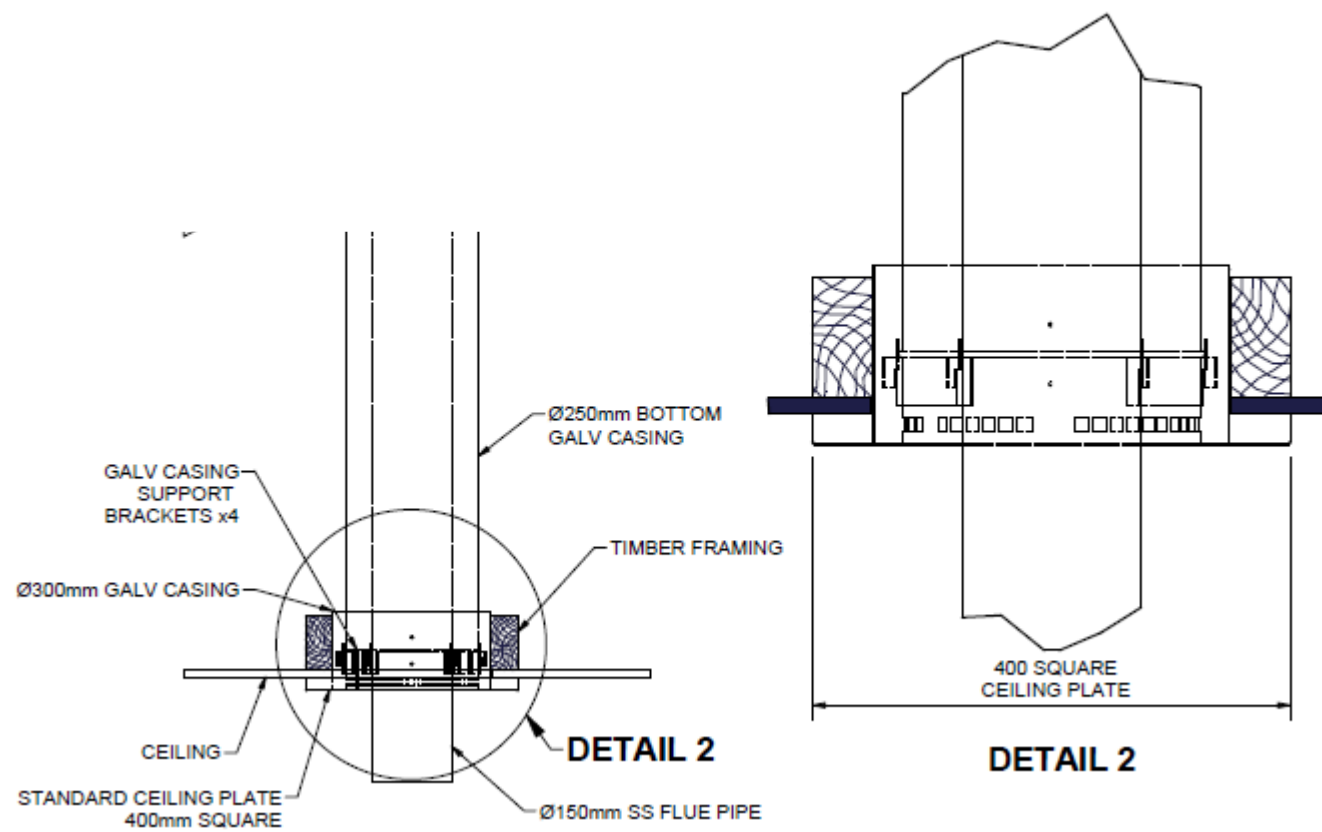
Scale 1:10

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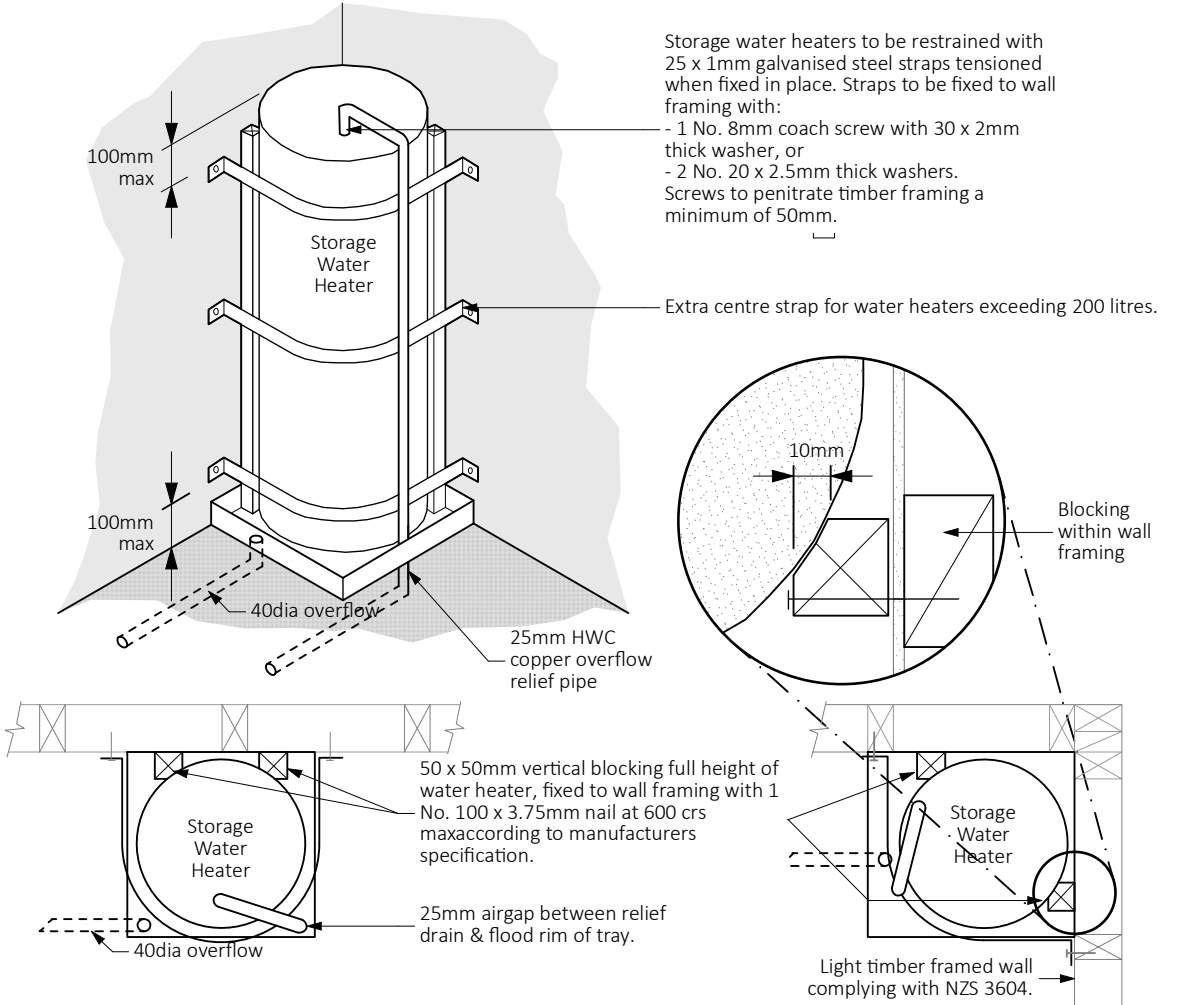
Fire Flue Penetration Detail

Scale 1:20

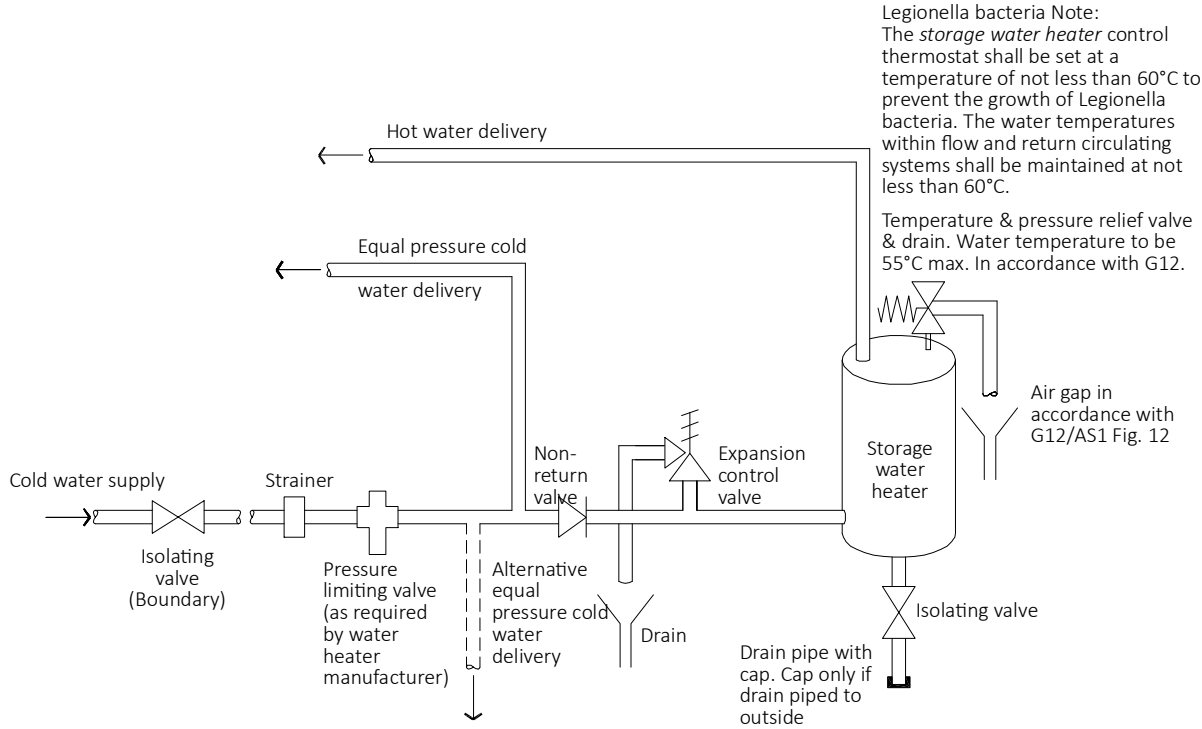


Whilst Choice Architecture has used reasonable means to ascertain dimensions on site; Choice Architecture does not warrant or guarantee the accuracy of dimensions supplied or implied on the drawings. For all intents and purposes, all dimensions are to be confirmed onsite. Do not scale off drawings

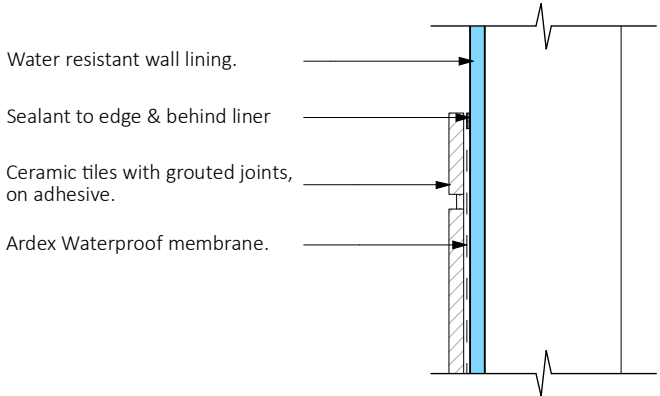




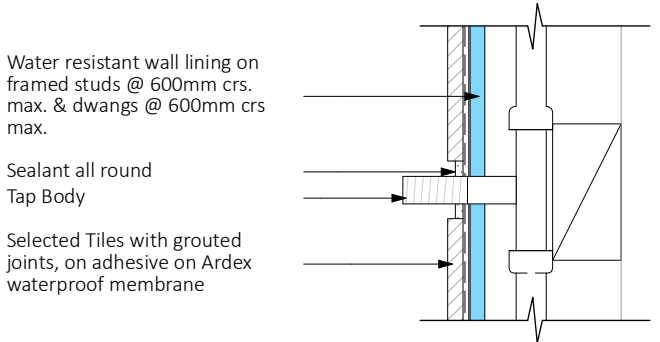
HWC Restraint: 1:50 Scale



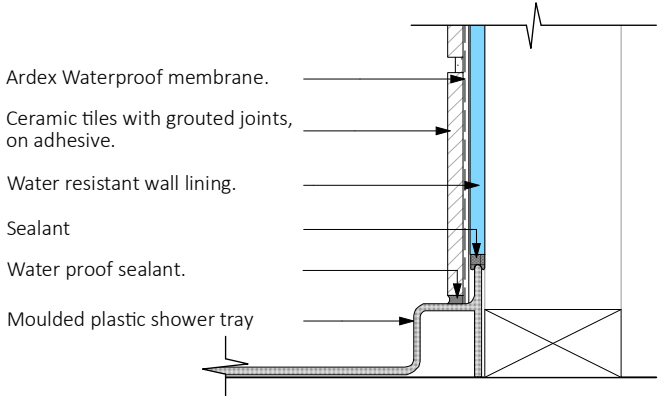
Plumbing Schematic Diagram: AS Per NZBC G12/Fig 8



Tiled Shower lining Junction

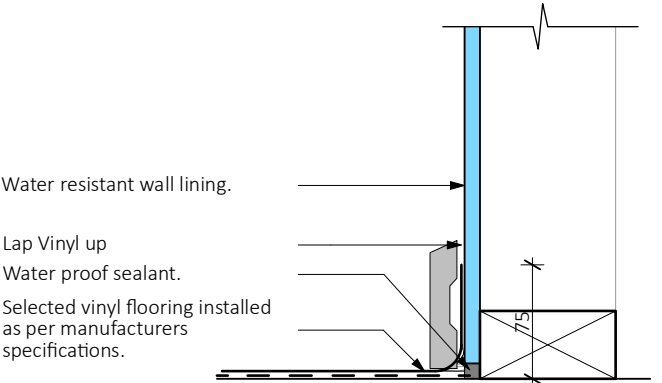


Pipe Penetration



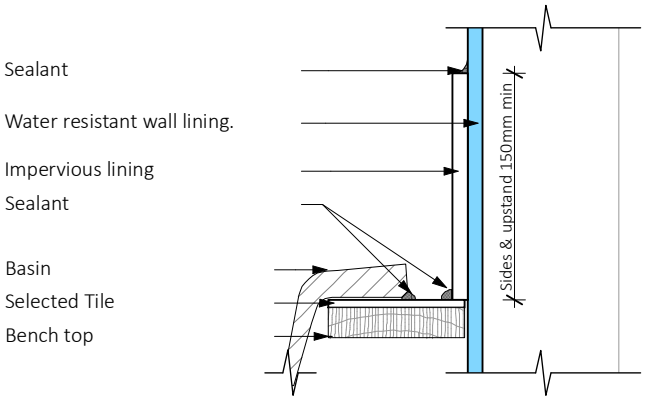
Acrylic Shower Details

Scale 1:5



Vinyl Floor to wall Detail

Scale 1:5



Basin to wall Details

Scale 1:5

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01/2017

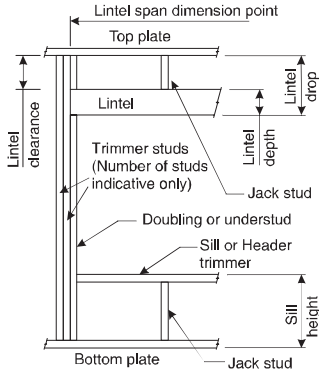


LINTEL FIXING SCHEDULE  
ALTERNATIVE TO TABLE 8.14 & FIGURE 8.12  
NZS 3604:2011

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

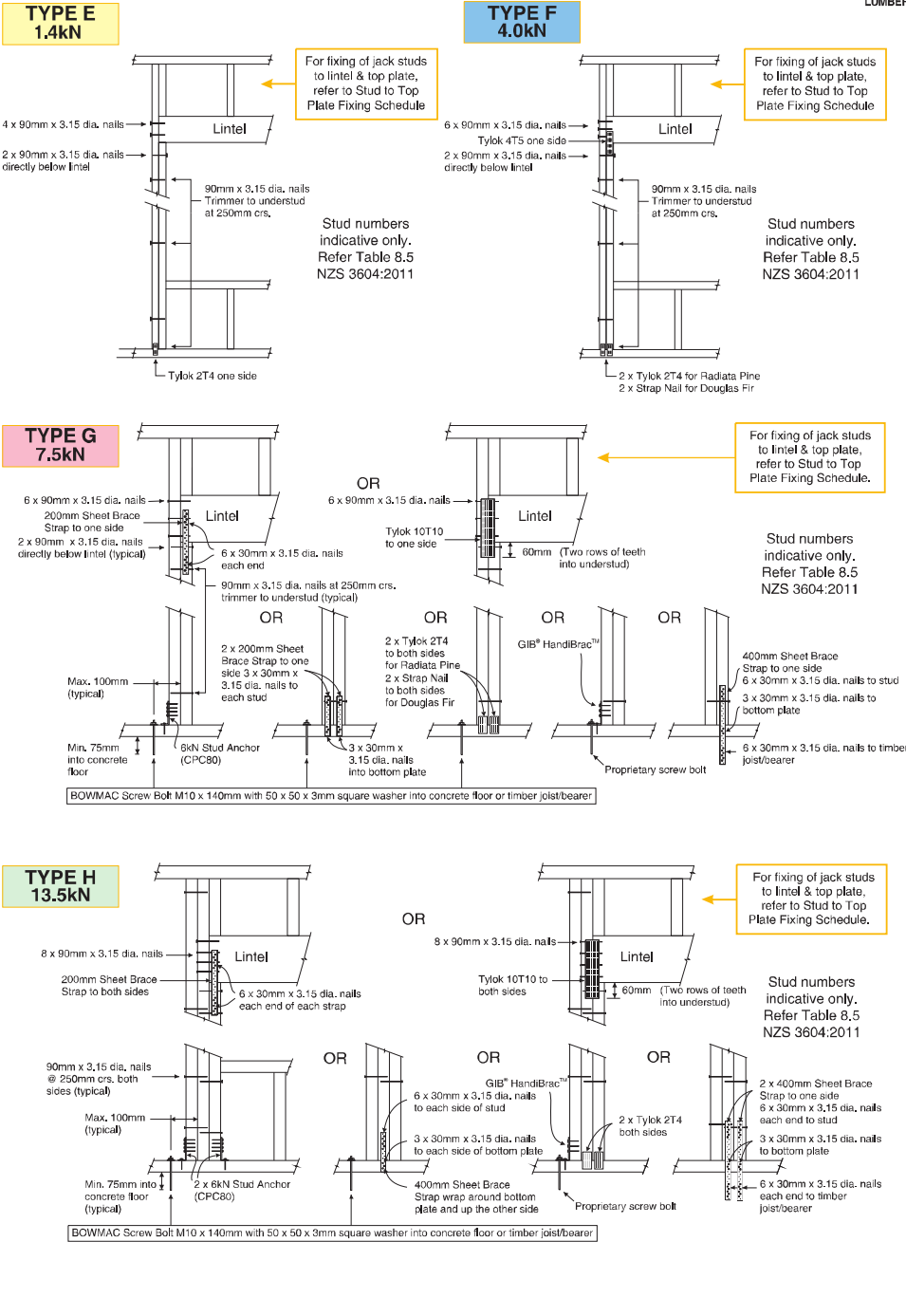


Roof Tributary Area	Light Roof				Heavy Roof			
	Wind Zone				Wind Zone			
	L, M, H	VH	EH		L, M, H	VH	EH	
8.6m²	G	G	H		G	G	H	
11.6m²	G	H	H		G	G	H	
12.1m²	G	H	H		G	H	H	
15.3m²	H	H	-		G	H	H	
19.1m²	H	-	-		G	H	-	
20.9m²	H	-	-		H	H	-	
21.8m²	H	-	-		H	-	-	
34.3m²	-	-	-		H	-	-	

- 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



**MiTek New Zealand Limited**

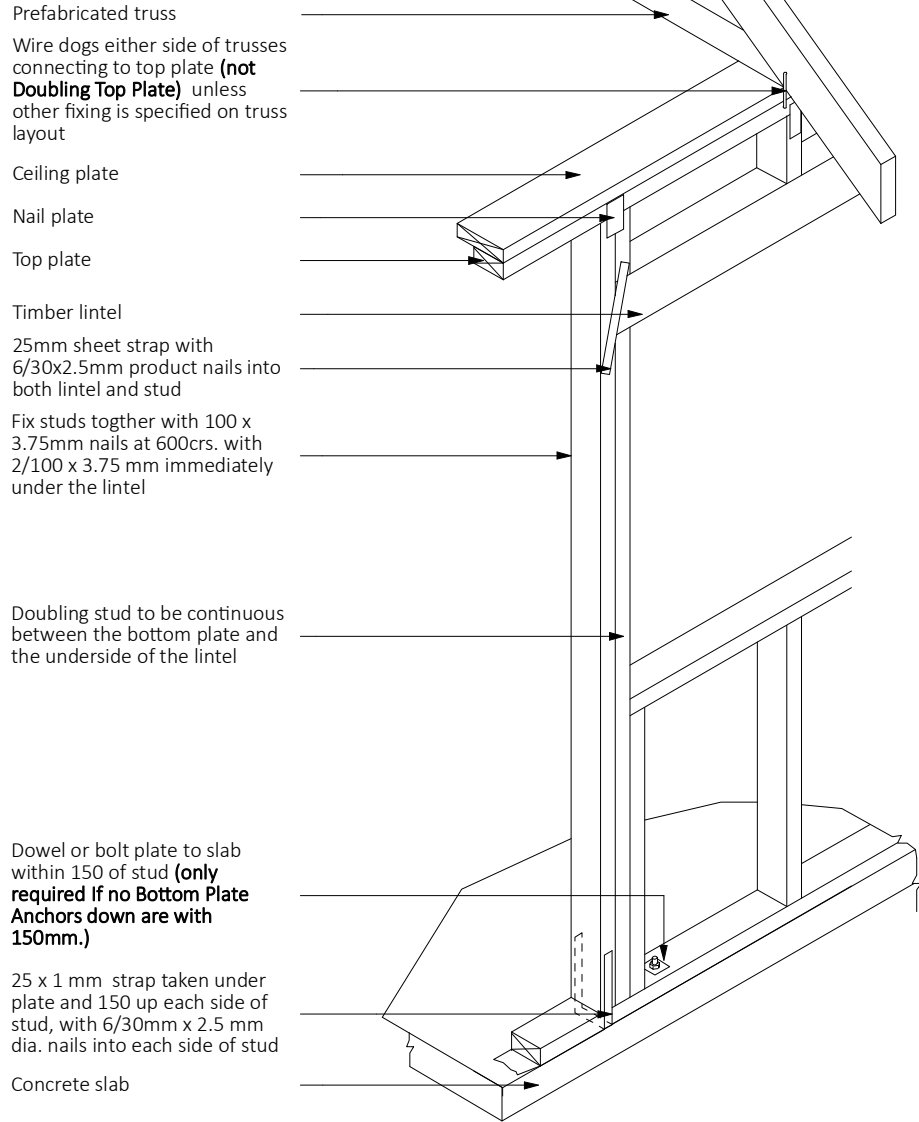
AUCKLAND  
PO Box 58-014, Botany 2163  
Phone: 09-274 7109  
Fax: 09-274 7100

CHRISTCHURCH  
PO Box 8387, Riccarton 8440  
Phone: 03-348 8891  
Fax: 03-348 0314

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Typical Lintel Fixing - To Conc Slab

Scale 1:20



Office 1, Level 1  
Lambert Building, Conway Lane  
172 High Street, Rangiora 7400  
hello@choicearchitecture.co.nz



Project: Lot 176 Oakfields  
Project Address: Lot 176 Oakfields, Amberley

Drawing Title: Lintel Fixing Details  
Job No: 21126  
Client: Marty Murchison  
Stage: Detailed

Designer: LF  
Drawn By: LF  
Technician: LF

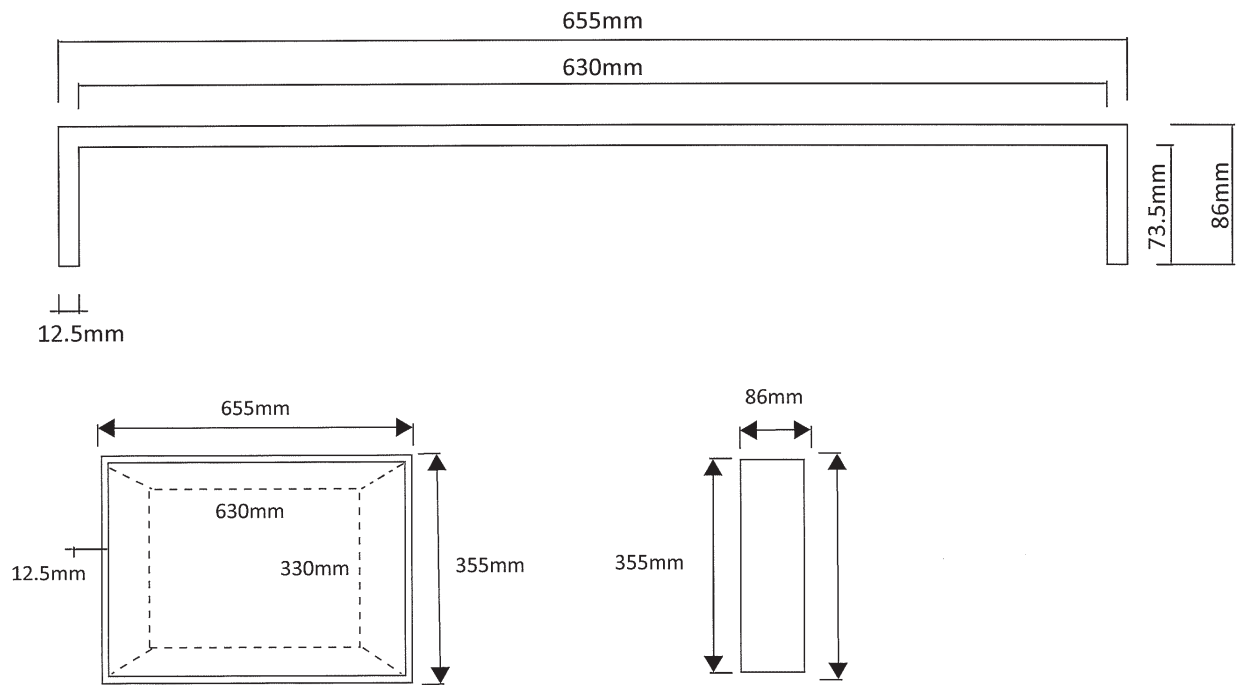
Rev	Date	Description
1	02/11/2021	-Detailed Design
1	03/11/2021	-Building Consent Issue
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Scale @ A3: 1:20  
Print Date: 3/11/2021  
Sheet No: A5.09  
Rev: 1

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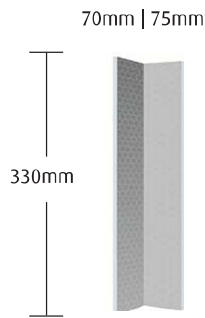


SHOWER NICHE - 630mm x 330mm (inside dimensions)



External dimensions: 655 x 355mm

Packers : 1 packer included with this size.



Marmox New Zealand Ltd  
T 0800 627 669 F 09 820 7090 E info@marmox.co.nz W www.marmox.co.nz

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