

BC No: BC211794**SITE DETAILS:**

25 GREENGRASS CRESCENT

KAIAPOI

LEGAL:

LOT 11 DP 540916

Approved Building Consent Documents and Plans (Full set)

On Site Copy

- These plans and specifications must be kept on site during construction, and made available to the building officer on request. Failure to do so will mean an automatic failure of the building inspection and will necessitate re-booking the inspection at the applicant's expense.
- All boundary survey pegs must be located and flagged by the owner before work is commenced.

Inspections

For bookings or building enquiries please phone the **Building Unit** on:

03 311 8906

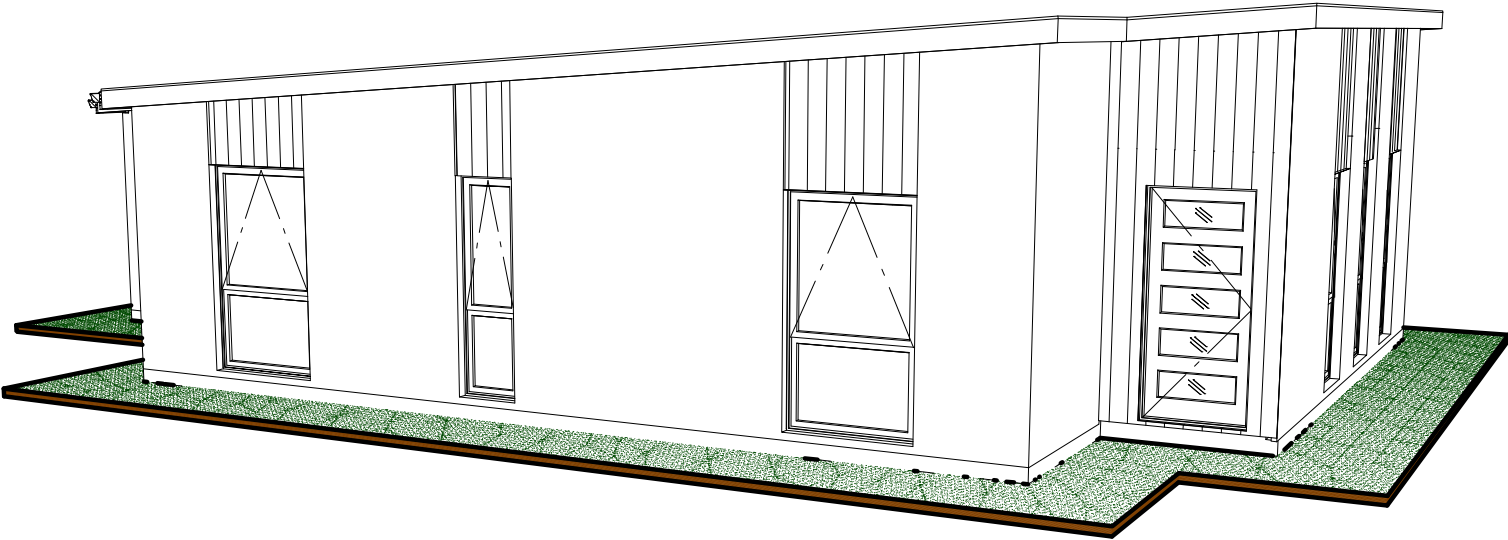
or

Email inspection bookings to: bcbooking@wmk.govt.nz

- Please refer to your inspection schedule for details of inspections to be carried out.
- At least 2-3 full working days' notice should be given when booking an inspection.
- Please be advised that it may not always be possible to carry out the inspection within the time frame you require.
- Provision is to be made to allow access.
- The Code Compliance Certificate will be issued once the:
 - Final inspection has been carried out and passed.
 - Audit of WDC building consent file has been completed.
 - Payment of any outstanding invoices is received.

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3D Picture Indicative only

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
 with the Building Act 2004, clause 49 and the Building
 Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk

Note: A BUILDING LOCATION CERTIFICATE (BLC)
 is REQUIRED 2 Working Days BEFORE the PrePour
 Inspection to verify the setout of the Finished Floor Level.
 The builder is required to tie back this FFL to a
 known LINZ Survey Mark (revised in January 2018).
 Please check with your surveyor that referenced
 Benchmark Datum heights are correct.
 MINIMUM FFL = 4.40M IN TERMS OF THE LYTTLETON
 VERTICAL DATUM 1937 (JAN 2018).

Reports used and required on-site

Geotechnical report used for foundation design
 Storm-water design / method
 Waste-water design / method
 Water treatment design / method
 Fire Fighting Water supply design / method
 Certificate of Title 913958
 Interest 11615295.7
 Interest 12065775.7
 Interest 12065775.8
 Interest 12065775.9
 Interest 12065775.11

= Geotechnical Foundation Strategy by Davis Ogilvie ref: 41631 dated: 9 June 2021
 = Council connection
 = Council connection
 = Council connection
 = Council connection
 = Land Covenant
 = Consent Notice
 = Consent Notice
 = Consent Notice
 = Consent Notice

Note: Prior to any construction starting plans must be reviewed by all contractors and any issues
 involving information or workability for their own trade and for following trade, any issues must be
 notified to draughting, so that those issues can be resolved before construction starts.



NOTES:

ZOG® frames & trusses

- ZOG® frames & trusses are designed using Vertex engineering & detailing software.
- ZOG® framing is 90x40x0.75mm rollformed from AXXIS® steel provided by NZ Steel Ltd.

FOUNDATION ENGINEER
Redco Consulting Professional Engineers

STEEL FRAME ENGINEER
Redco Consulting Professional Engineers

Building Design Summary

Site data

- Ground bearing: (refer AS2870)
- Subsoil Class: (NZS1170, section 5)
- Wind zone: (NZS3604, section 5)
- E-quake zone: (NZS3604, figure 5.4)
- Climate zone: (NZS4218, B1)
- Exposure zone: (NZS3604, figure 4.2)
- Rainfall zone: (NZBC:E1, Niwa)
- Snowload: (NZS3604, figure 15.1)

Building data

- Building cat: (NZS3604, table 1.1)
- Floor live loads: (NZS3604, table 1.2)
- Protect. from fire: (C1/AS1: Risk Group 5H)

CLIENT:

Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:

Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):

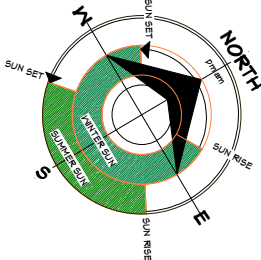
Sub-soil Classification:	E
Soil Classification	REF GEOTECH
Wind Zone:	High
Earthquake Zone:	2
Exposure Zone:	C
Climate Zone:	3
Rain Intensity (10%AEF):	47.6mm/hr
Snowload:	1.0kPa

Contents & Design

JOB No: 97723	SALES:	Aaron
LBP:	C. Neame 101178	
DRAWN: Katherine	DATE:	27/08/2021
SCALE:	SHEET No.	1 OF 38



- NOTES:
- Prior to starting any works
- Locate and identify boundary pegs, service connection points and there inverts (Confirm all falls shown in drawings will comply)
 - Public protection from onsite hazards, Site safety fencing (when required by T.A), 2.0m(min) to prevent site hazards from harming traffic or passers-by, to restrict unauthorized entry by children - ensure fencing is difficult to be climbed, gates and doors do not project beyond site when open, and encloses the whole site.
 - All building sites to have Worksafe NZ compliant warning signs erected.
 - Any hazardous equipment or materials will be stored onsite only if secured, by portable building lock up or in the house being built (after lock-up stage)
 - Sites to be assessed on a individual basis by construction managers for compliance with NZBC clause F5 and if specific hazards exist then a work-site barrier must be erected.



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Lot 11, DP 540916

Greengrass Crescent

Silverstream B9, Kaiapoi,

Canterbury

TERRITORIAL AUTHORITY:

Waimakariri District Council

Residential Zone 7

SITE DATA (for zones upto & including):	
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Soil Classification	REF GEOTECH
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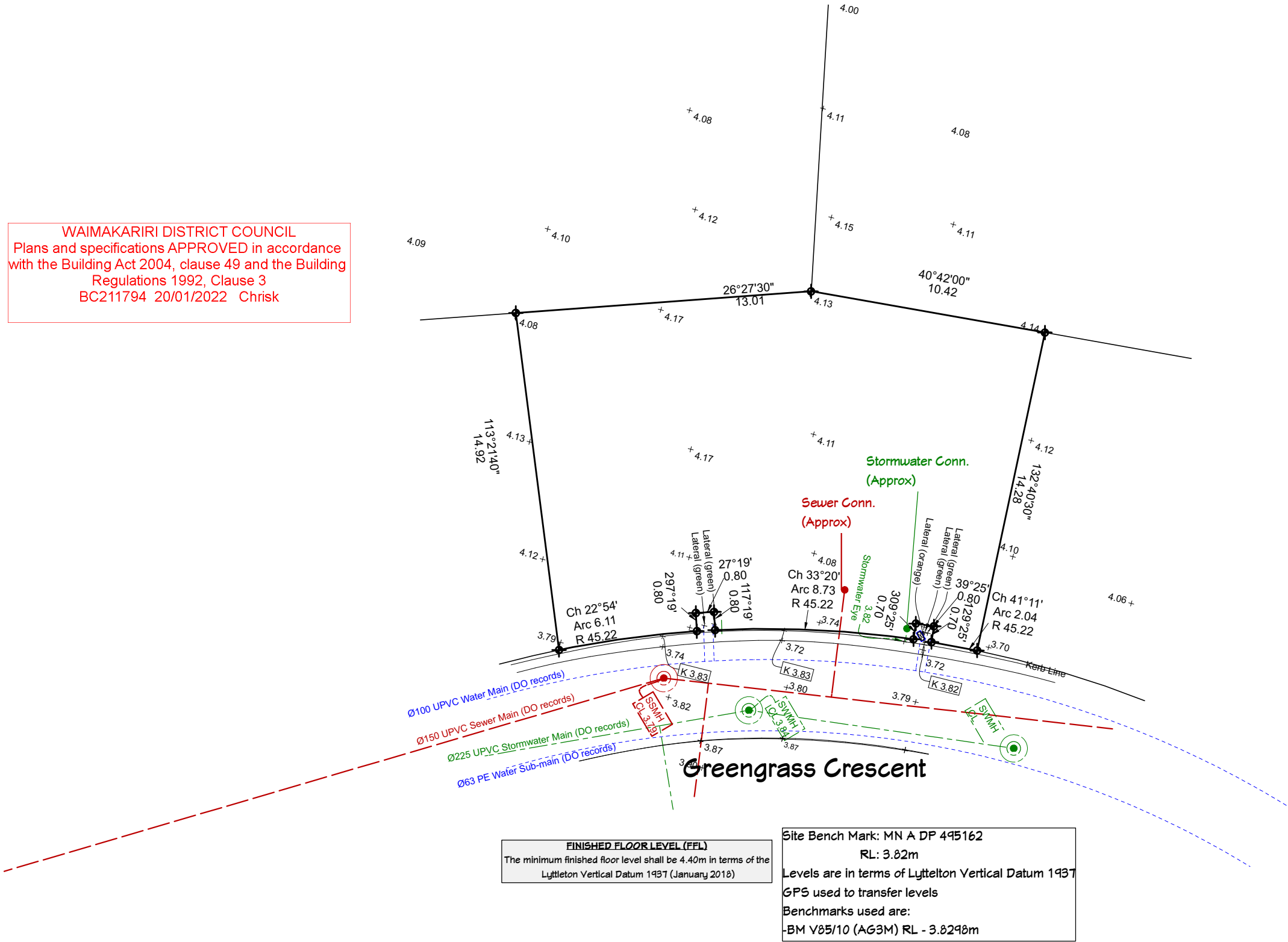
Site Existing

JOB No:	97723	SALES:	Aaron
LBP:	C. Neame		101178
DRAWN:	Katherine	DATE:	27/08/2021
SCALE:	1:200	SHEET No.	2 OF 38

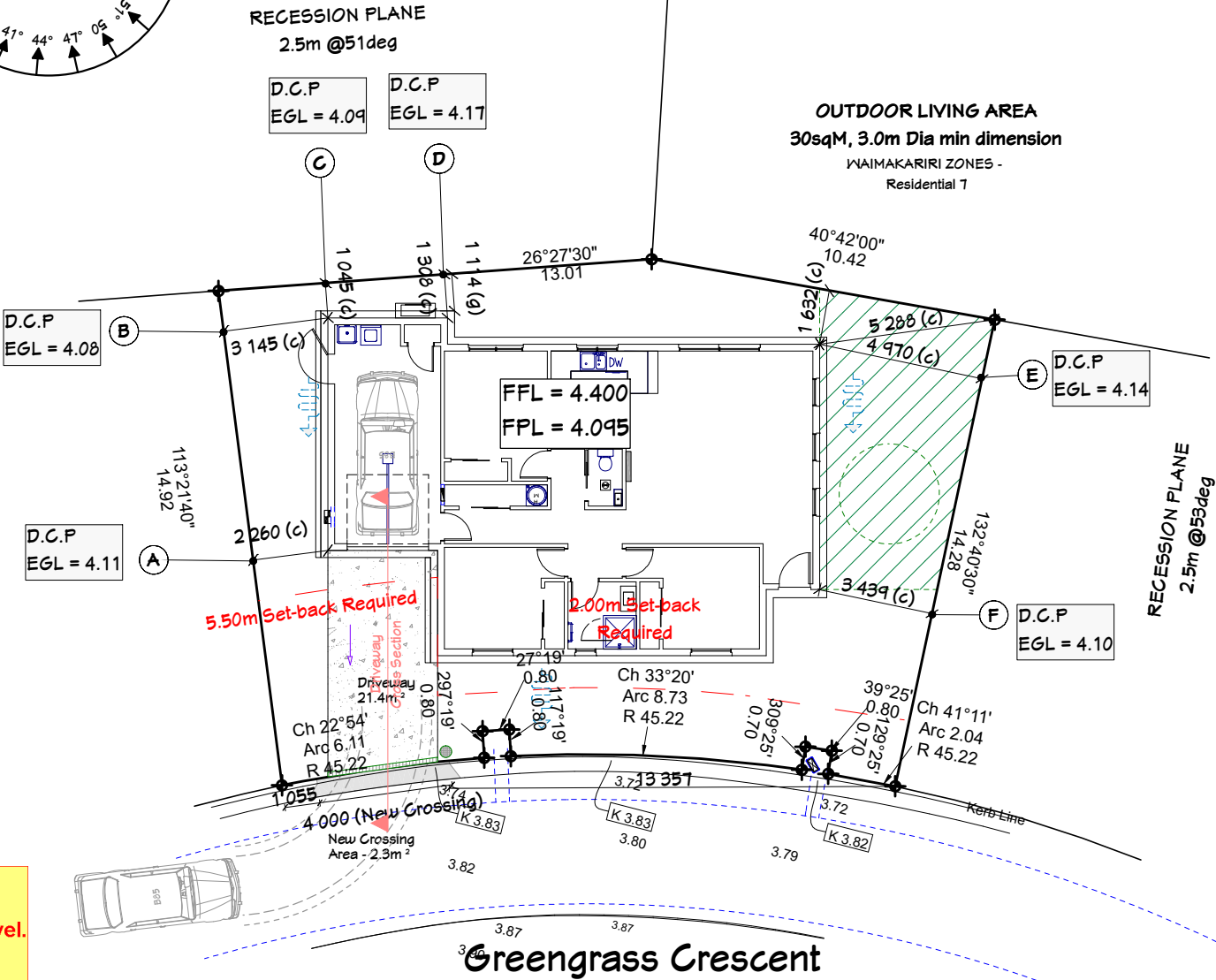
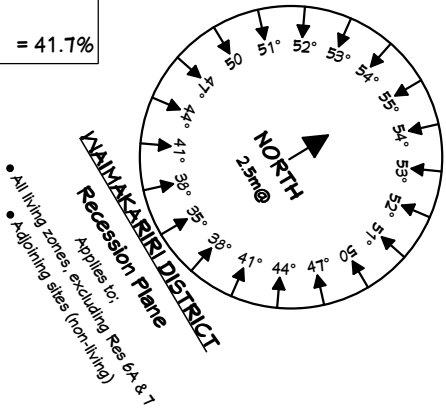
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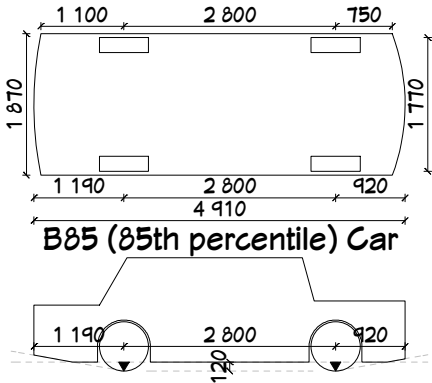
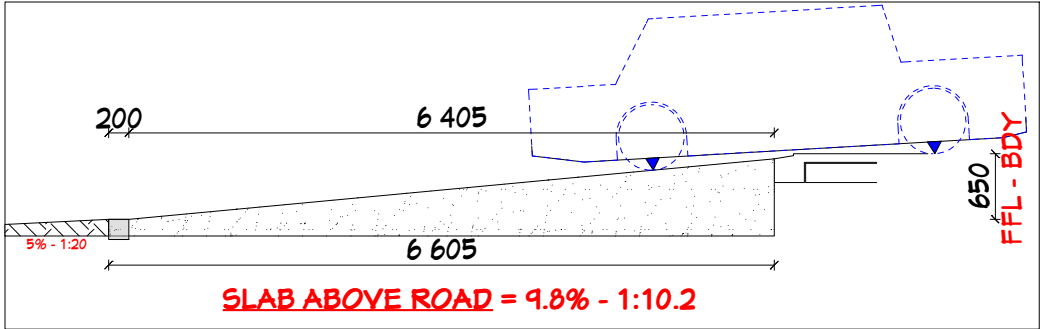
COVERAGE		
Site area	= 303m ²	
Footprint (over cladding)	= 126.5m ²	= 41.7%



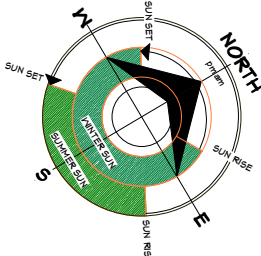
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 Please check with your surveyor that referenced
 Benchmark Datum heights are correct.
MINIMUM FFL = 4.40M IN TERMS OF THE LYTTLETON
VERTICAL DATUM 1937 (JAN 2018).

Fencing
 No fencing shall be located forward of the dwelling, except for fencing
 located on internal boundaries.
 Any internal fence located within 3 metres from the road boundary
 shall not exceed 1.5 metres in height.
 Any fencing along the boundary adjacent to the Council reserve shall
 have a maximum height of 1.2m and be 50% visually permeable



- NOTES:
KEY
 FFL = Finished floor level
 FGL = Finished ground level
 FPL = Finished platform level
 EGL = Existing ground level
 D.C.P = Daylight control point
 (f) = Dimension to foundation
 (c) = Dimension to cladding
 (g) = Dimension to gutter/leave
 ● = Bubble Up Chamber
 ● = Type 1 sump
 ■ = Type 2 sump
 ■ = Drainage channel
 → = Overland flow path
 → = Fall of paving

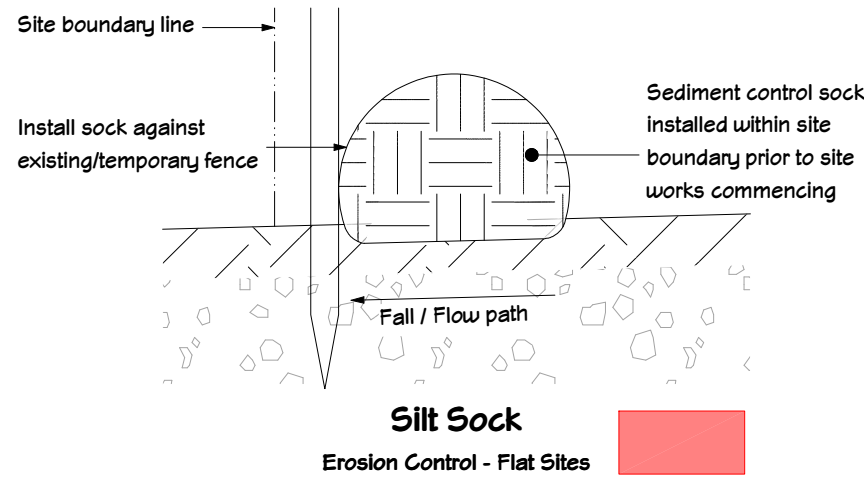


CLIENT:
Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury
 TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 1

SITE DATA (for zones upto & including):
 Sub-soil Classification: E
 Soil Classification: REF GEOTECH
 Wind Zone: High
 Earthquake Zone: 2
 Exposure Zone: C
 Climate Zone: 3
 Rain Intensity (10%AEF): 47.6mm/hr
 Snowload: 1.0kPa

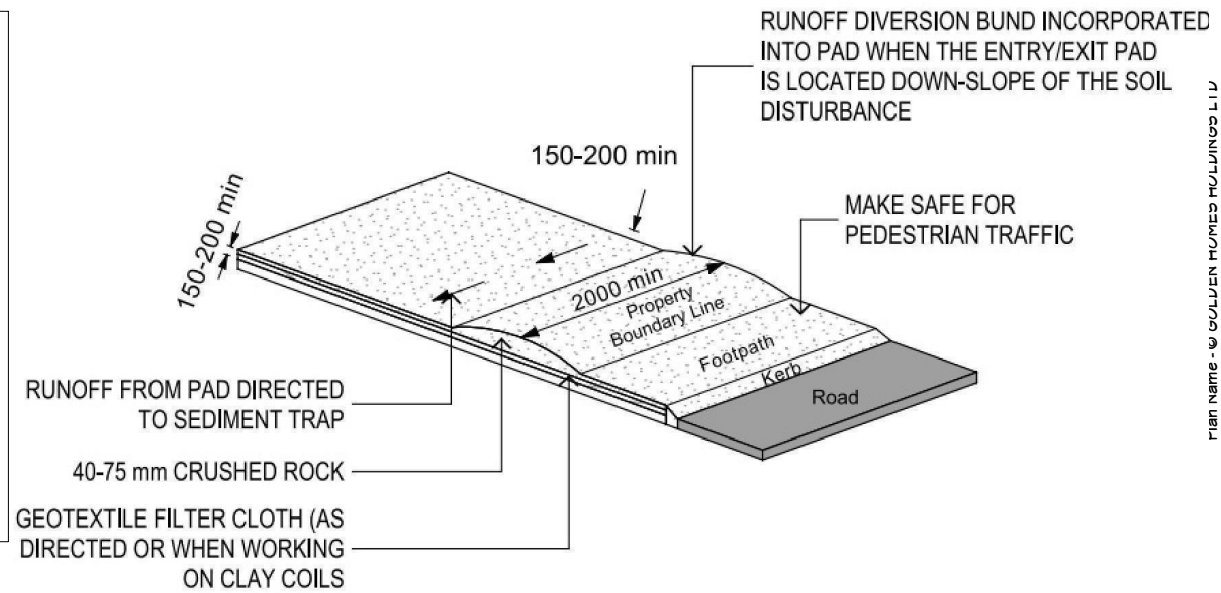
Site Planning

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: 1:200	SHEET No. 3 OF 38



Entry pad

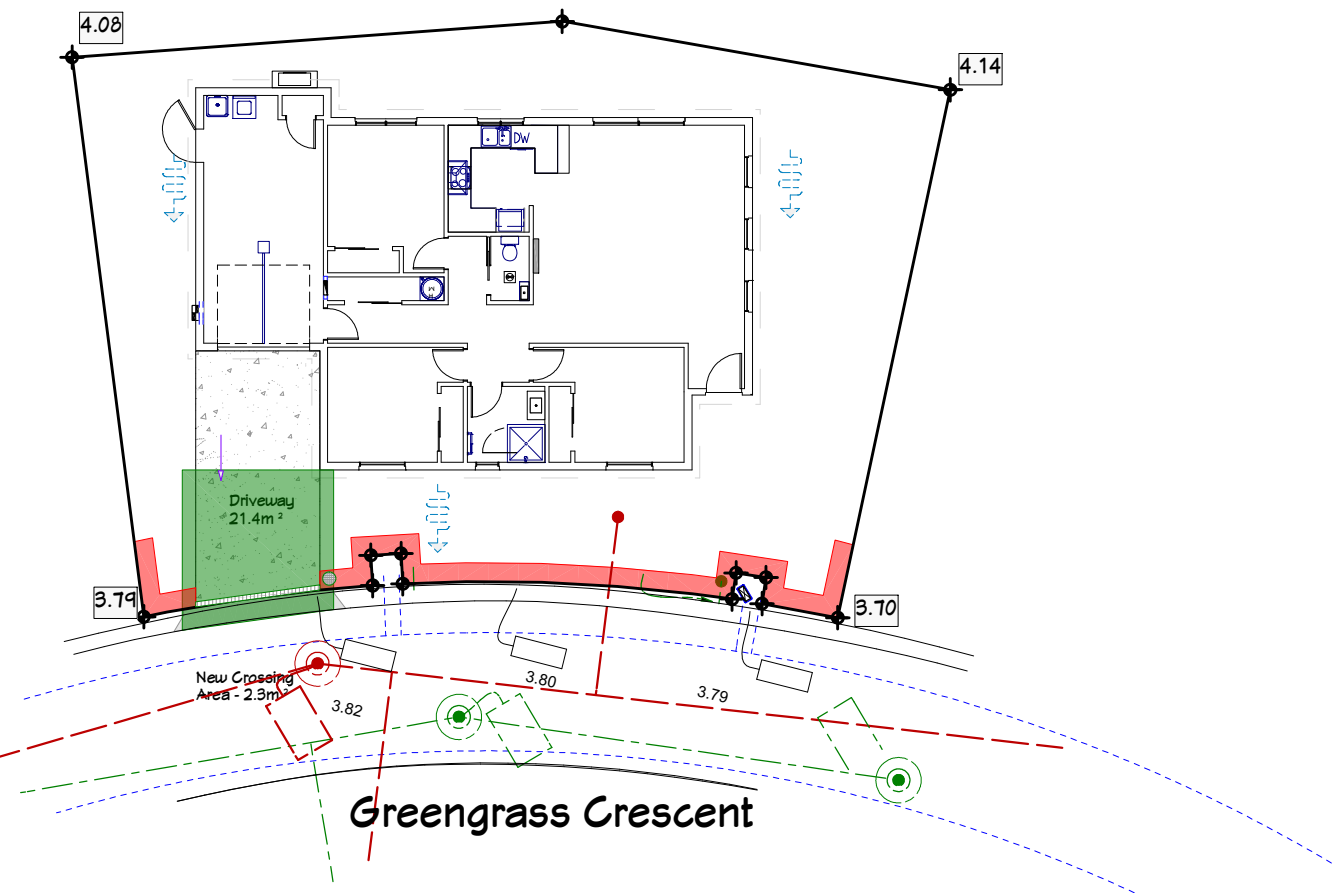
- Area has been cleared of unsuitable material and smooth graded
- Woven Geotextile has been placed over the area, and is properly pinned and overlapped
- Aggregate is extended from Road Kerb to Edge of Building. 4m wide and a minimum 150mm deep, using 40-75mm washed aggregate
- Vehicles cannot bypass the entranceway
- Street sweep/suction is done and date recorded
- Inspection and maintenance checks are done, recorded and dated, along with any comments.



STABILIZED ENTRY/EXIT PAD

REMOVE STABILIZED ENTRY/EXIT PAD
UPON COMPLETION OF THE FORMED DRIVEWAY

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Silt Sock Requirements

- Silt socks should be made from HDPE or polyester material with abrasion-resistant netting weaves (a thread diameter of at least 0.3 mm) and fully contain the filler material.
- The filter medium must be free from contaminants (Eg: Sawdust must not be from treated wood, and compost/straw must be free of weed seeds).
- 225mm dia. minimum
- Always install silt socks on the contour. If this is not possible, or if the sock is in long sections, install short sock returns, projecting upslope from the silt sock to minimise concentration of flows. Returns should be at least 2 m long.
- Join silt socks with a sleeve or overlap by at least 1m, or as per the manufacturer's recommendation.
- Install silt sock 'wings' or return the silt sock up the slope at ends to prevent outflanking.
- Silt socks using a light filter medium (straw or wood chips etc) must be tied down using stakes and twine to prevent 'floating', and are not suitable over concrete or paving etc.
- Vehicles are prevented from driving over silt socks, or they are moved out of the way of vehicles when needed.
- Inspection and maintenance checks are done, recorded and dated, along with any comments.



NOTES:

KEY

- Overland flow path
- Fall direction

Onsite sediment control

- In accordance with ECAN Toolbox.
- Access via stabilised entry/exit pad.
- Wind proof skip bin
- Site access, storage and construction should be controlled so that there is no adverse environmental effects.
- Temporary down pipes to be installed to control roof water run-off
- Planting or hydroseeding to any exposed earthworks on completion.
- Project Manager/Supervisor is responsible for implementation and maintenance of this plan

CLIENT:

Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:

Waimakariri District Council
Residential Zone 7

SITE DATA (for zones upto & including):

Sub-soil Classification: E
Soil Classification: REF GEOTECH
Wind Zone: High
Earthquake Zone: 2
Exposure Zone: C
Climate Zone: 3
Rain Intensity (10%AEF): 47.6mm/hr
Snowload: 1.0kPa

Proposed Erosion Sediment Control

JOB No: 97723 SALES: Aaron
LBP: C. Neame 101178
DRAWN: Katherine DATE: 27/08/2021
SCALE: 1:200 SHEET No. 4 OF 38

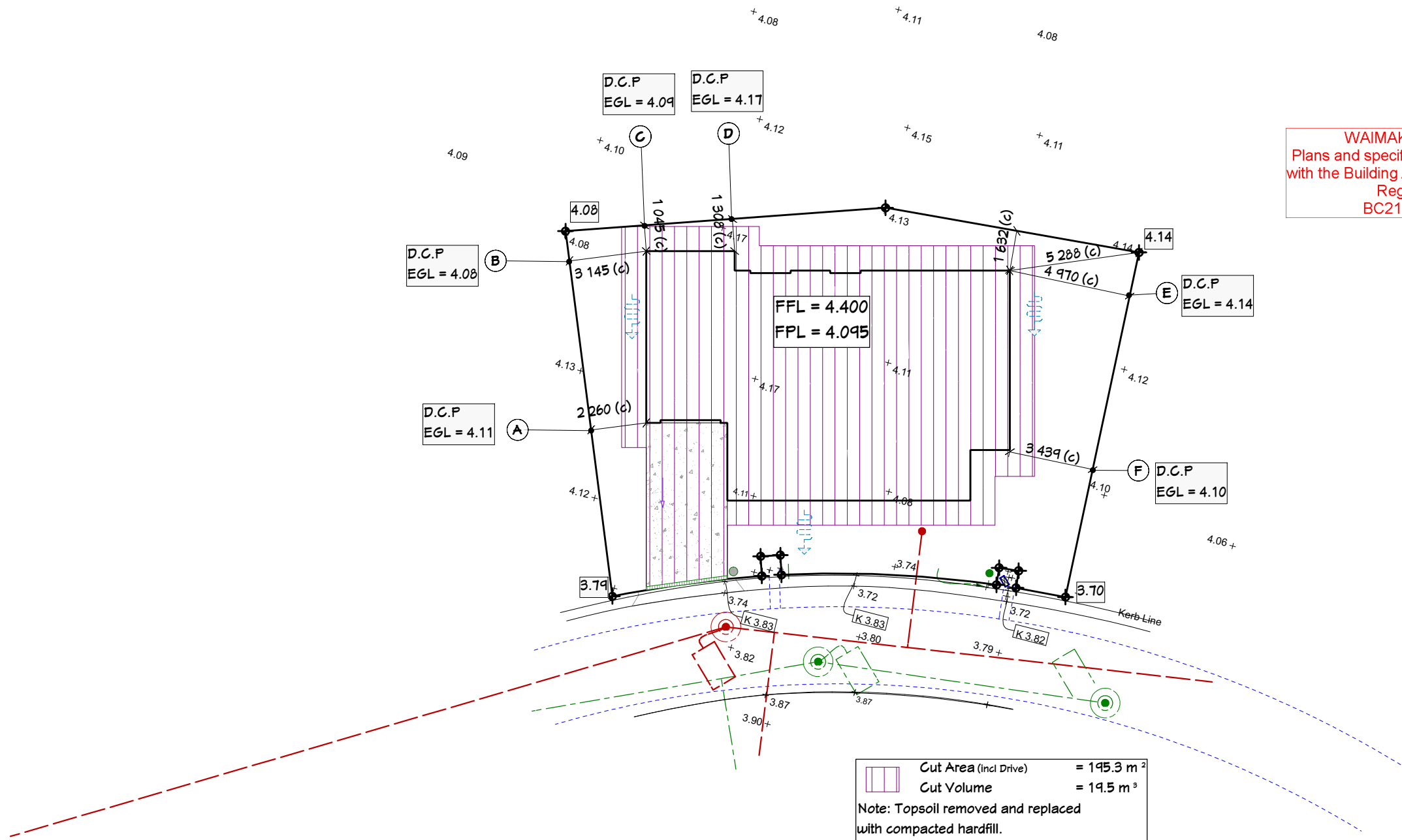
Excavation and foundation compaction to be in accordance with the geotechnical report accompanying the drawings. (ref page 1 for report)

Minimum Ultimate Bearing Capacity required for slab is: 200kPa

Extent of Platform beyond Foundation Edge: 1000mm (except where Deepened Foundation Edges are shown)

Dig out depth is: All topsoil (Approximate only to be confirmed on-site during excavation)

General Notes:All earthworks to be inspected by qualified Geotech engineer.



WAIMAKARIRI DISTRICT COUNCIL

Plans and specifications APPROVED in accordance with the Building Act 2004, clause 49 and the Building Regulations 1992, Clause 3

BC211794 20/01/2022 Chris



- NOTES:
- KEY
- FFL = Finished floor level

FGL = Finished ground level

FPL = Finished platform level

EGL = Existing ground level

D.C.P = Daylight control point

(f) = Dimension to foundation

(c) = Dimension to cladding

(g) = Dimension to gutter/leave

= Bubble Up Chamber

= Type 1 sump

= Type 2 sump

= Drainage channel

= Overland flow path

= Fall of paving

- Onsite sediment control
- In accordance with TA's requirements.

Access via stabilised entry/exit pad.

Covered wind proof skip bin

Site access, storage and construction should be controlled so that there is no adverse environmental effects.

Temporary down pipes to be installed to control roof water run-off

CLIENT:

Marshall Residence

Lot 11, DP 540916

Greengrass Crescent

Silverstream B9, Kaiapoi,

Canterbury

TERRITORIAL AUTHORITY:

Waimakariri District Council

Residential Zone 7

SITE DATA (for zones upto & including):

Sub-soil Classification: E

Soil Classification REF GEOTECH

Wind Zone: High

Earthquake Zone: 2

Exposure Zone: C

Climate Zone: 3

Rain Intensity (10%AEF): 47.6mm/hr

Snowload: 1.0kPa

Site Works

JOB No: 97723	SALES: Aaron
LBP: C.Nearne 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: 1:200	SHEET No. 5 OF 38

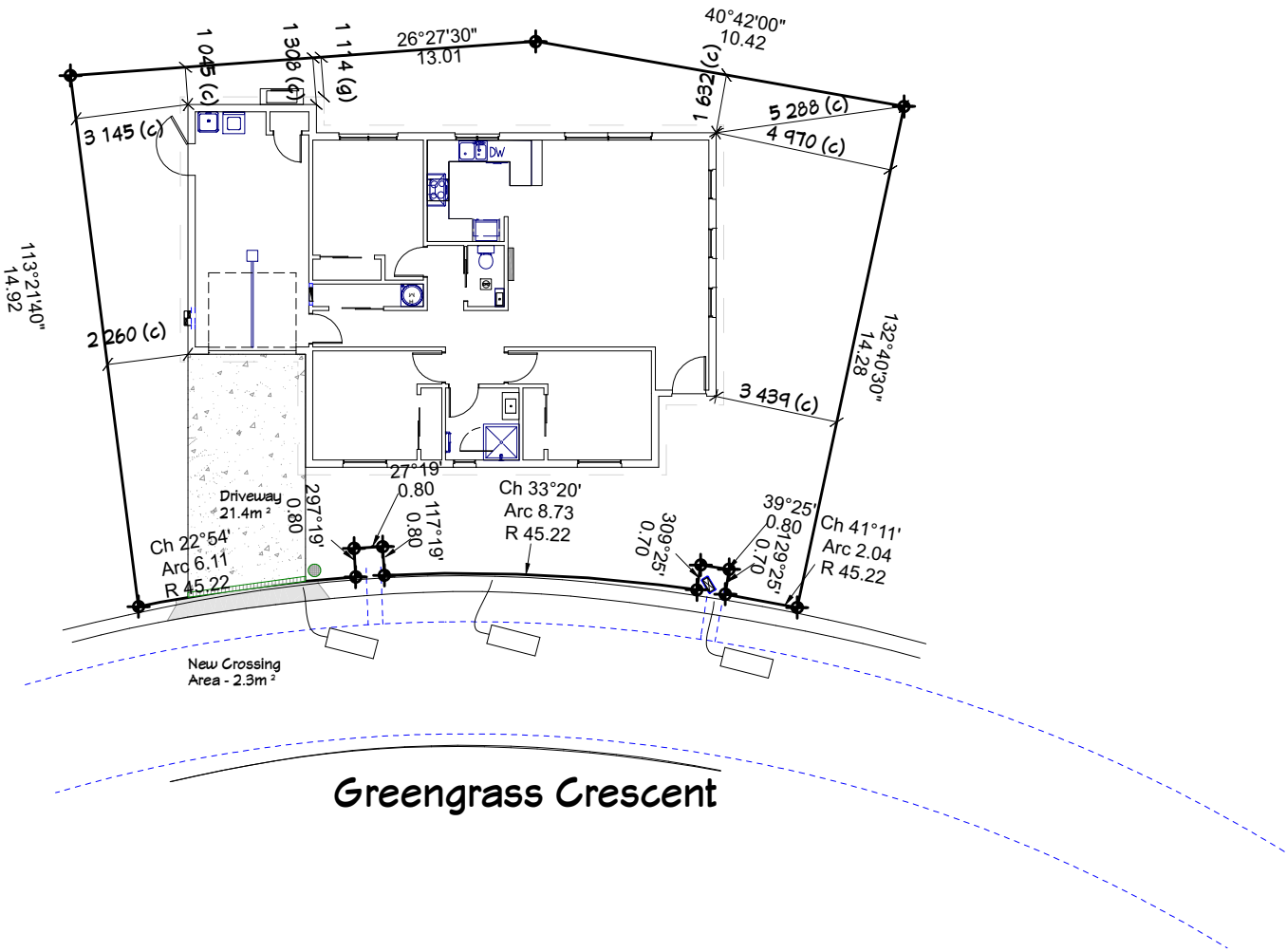
- All floor / platform levels to be confirmed on site prior to commencing foundations

Depth and distance out from building footprint of the foundation hardfill, when required, is to be as stated in the Geotechnical Report used for Foundation Design. Ref page 1 for report.

The actual ground conditions encountered during excavation for all consent related construction shall be monitored and verified, in writing, as similar to the conditions given in report(s) noted

Any variations in conditions that could affect the consent related construction must be re-evaluated by a suitably qualified engineer and an updated report provided to DINEX for redesign of the affected construction.

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NOTES:

Refer to Cladding Details page for dimension

SP 001 Finished Ground Reference
Std Raft Slab
WUDINEX plan

CLIENT:

Marshall Residence
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Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:

Waimakariri District Council
Residential Zone 7

SITE DATA (for zones upto & including):

Sub-soil Classification: E
 Soil Classification: REF GEOTECH
 Wind Zone: High
 Earthquake Zone: 2
 Exposure Zone: C
 Climate Zone: 3
 Rain Intensity (10% AEP): 47.6mm/hr
 Snowload: 1.0kPa

Site Plan

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: 1:200	SHEET No. 6 OF 38



GOLDEN HOMES™



CODEMARK™
CM70023 Rev1

NOTES:

- Flow direction of surface water follows slope of the natural ground, unless otherwise noted
- The finished ground level (FGL) adjoining the concrete slab-on-ground shall be formed so as to carry water away from the building, at a slope of not less than 1:25, for a distance of at least 1.0m from the building
- Paved entry steps/patios to be 180mm (max) below the FFL, with a slip coefficient to comply with NZBC D1 AS1/VM1, and a minimum cross fall of 1:100 (1:50 max), away from building
- Driveway to have a minimum cross fall of 1:100, 1:50 max when forming part of the access via walking with a slip coefficient to comply with NZBC D1 AS1/VM1.
- All paving will fall to permeable surfaces, unless otherwise noted
- For cladding and floor clearances, refer to cladding details

KEY

-  = Bubble Up Chamber
-  = Type 1 sump
-  = Type 2 sump
-  = Drainage channel
-  = Overland flow path
-  = Fall of paving

CLIENT:

Marshall Residence
Lot 11, DP 540916
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Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:

Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):

Sub-soil Classification: E

Soil Classification REF GEOTECH

Wind Zone: High

Earthquake Zone: 2

Exposure Zone: C

Climate Zone: 3

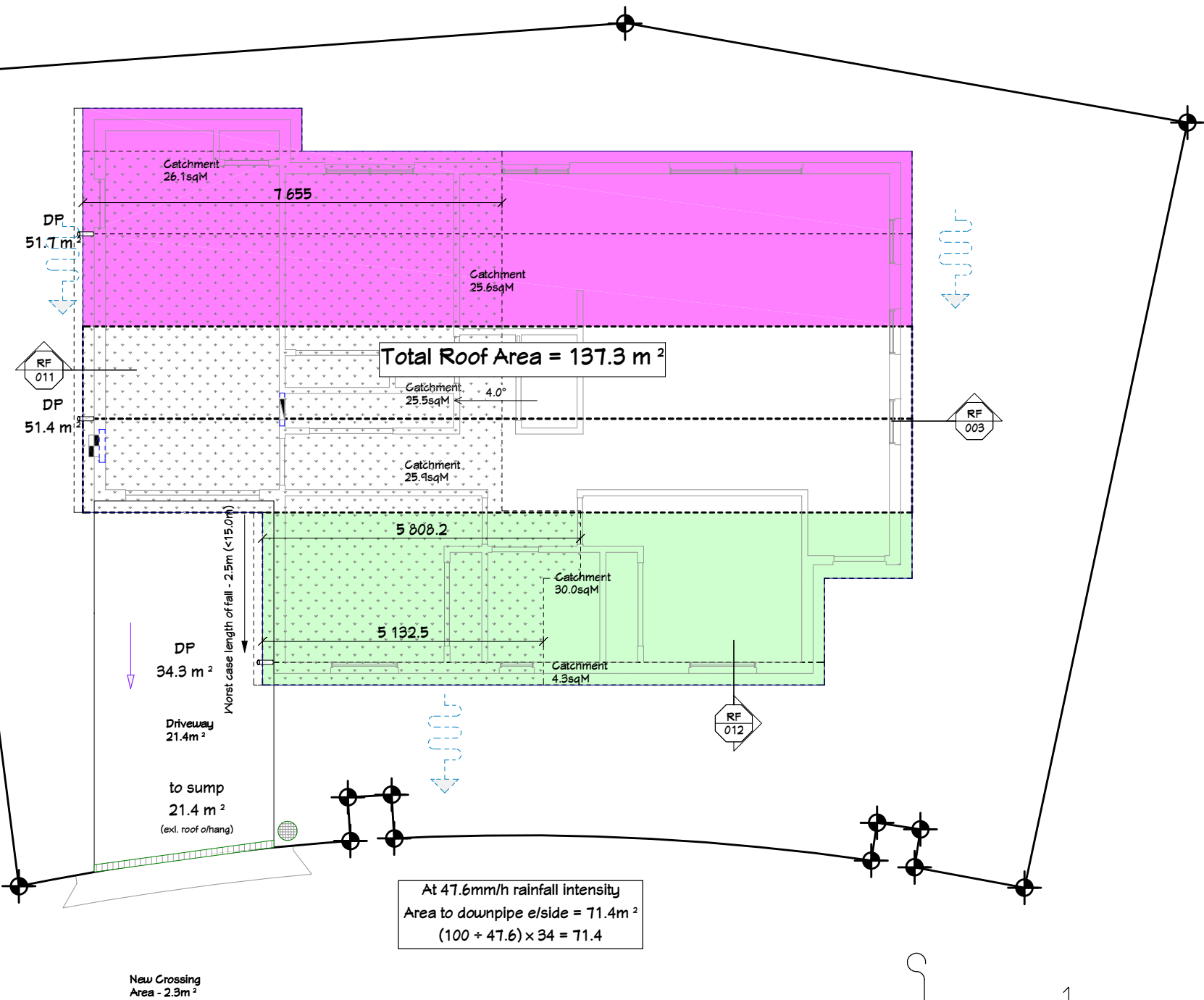
Rain Intensity (10%AEF): 47.6mm/hr

Snowload: 1.0kPa

Site Surface Water

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: 1:100	SHEET No. 7 OF 38

Plan Name - © GOLDEN HOMES HOLDINGS LTD

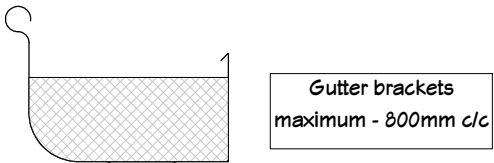


GUTTER FALL REQUIREMENTS

Gutter	
Catchment 4.2sqm	Catchment 4.2sqm

Provide 1:500 fall away from catchment intersections to the downpipes

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Stratco Quad Gutter - Standard
 Material : 0.4mm Colorcote Steel
 Cross Sectional Area : 5621mm² (with free 10mm board)
 Flow Capacity : 71 litres/min.
 Minimum Recommended Fall : 1:500

DOWNPIPE	Under 25 deg			
	Under 25 deg	Under 35 deg	Under 45 deg	Under 55 deg
Rainfall Intensity, I (mm/hr)	100	100	100	100
Area to downpipe e/side (m ²)	41	34	27	21
Area to downpipe Total (m ²)	80	70	60	50

DD 017
 External Gutter
 Stratco Quad
 VU/DINEX plan



- NOTES:
- Bracing Element Lines**
 - Prior to making penetrations for pipe work or other, the contractor must review the plans to ensure the work will not effect the ZOG® structural framing or bracing elements.
 - Vanity Wastes - All vanity wastes to be put into wall frame to allow for wall hung vanities.
 - Laundry tub volume - N/A due to washing machine connections provided
 - Kitchen sink volume, sink shall be capable of fully containing a solid cylinder of 300 mm diameter and 125 mm depth.

Key

- ⊙ = Inspection Point
- ⊗ = Rodding Eye
- AAV = Air Admittance Valve
- α = Down Pipe
- GT = Gully Trap
- ORG = Overflow Relief Gully Trap
- FW = Floor Waste
- - - = 100mm uPVC Stormwater Drain
- - - = 150mm uPVC Stormwater Drain
- - - = 100mm uPVC Wastewater Drain
- - - = Fixture Wastes (Sizes ref. table)
- = Bubble Up Chamber
- = Type 1 sump
- = Type 2 sump
- ▤ = Drainage channel

CLIENT:

Marshall Residence
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Greengrass Crescent
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TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):

Sub-soil Classification: **E**

Soil Classification: **REF GEOTECH**

Wind Zone: **High**

Earthquake Zone: **2**

Exposure Zone: **C**

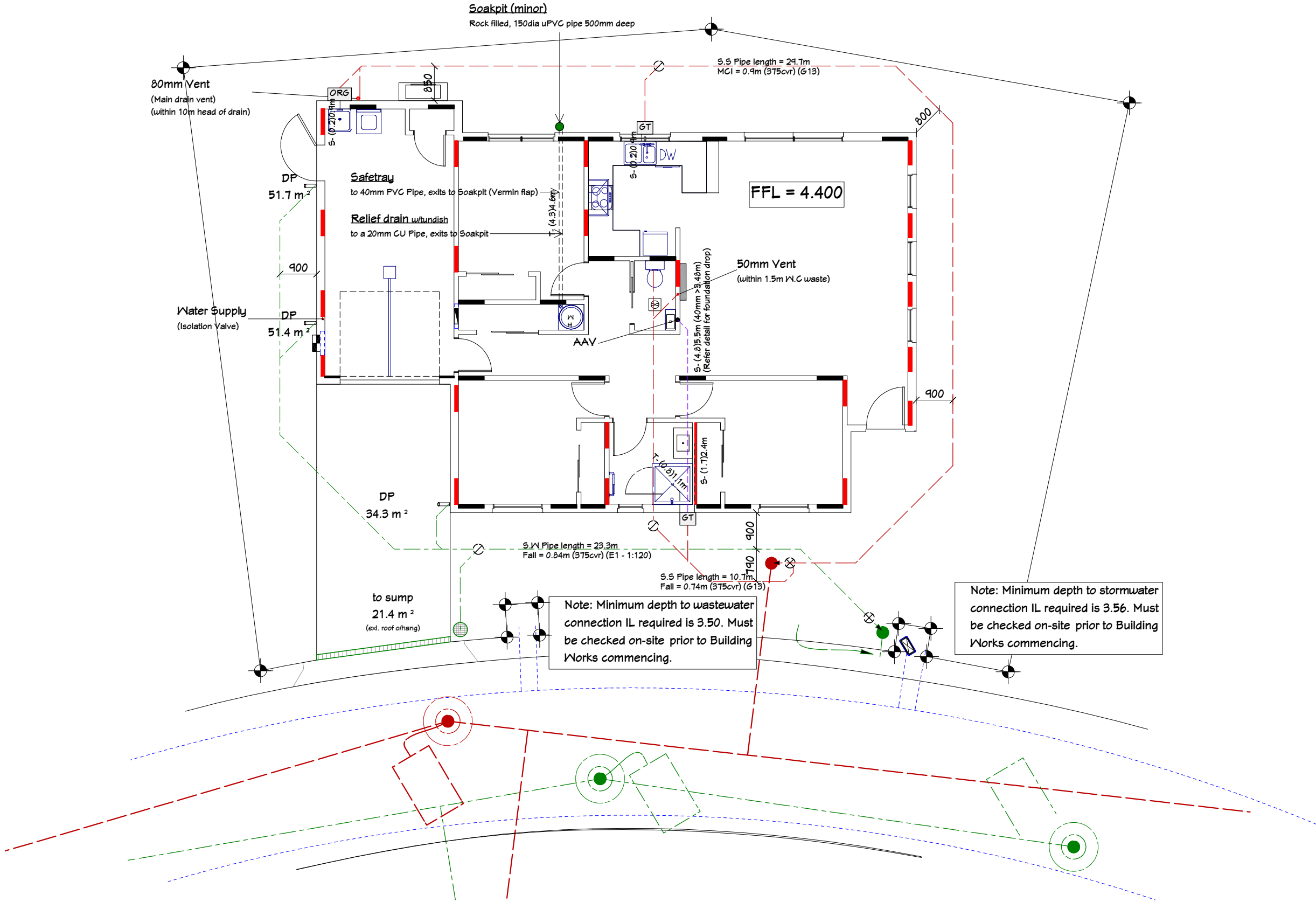
Climate Zone: **3**

Rain Intensity (10%AEF): **47.6mm/hr**

Snowload: **1.0kPa**

Site Drainage

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: 1:100	SHEET No. 8 OF 38

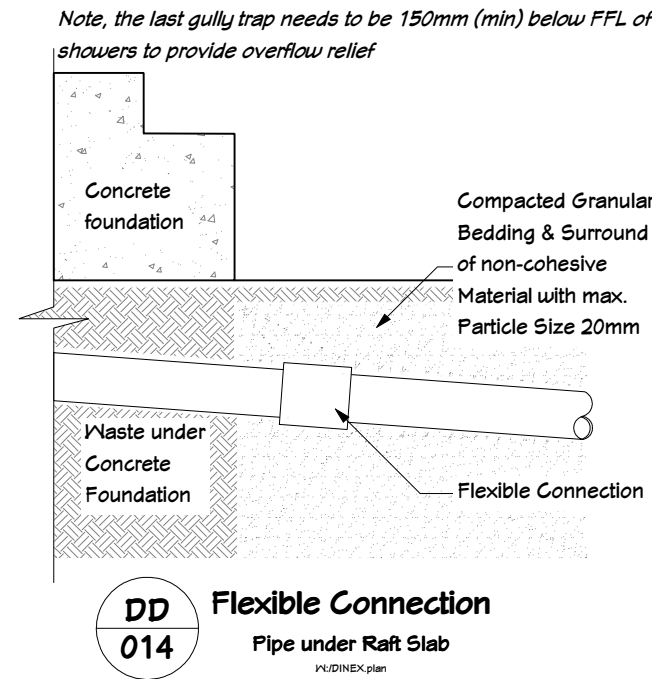
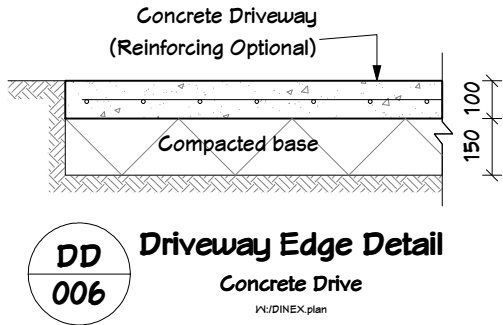
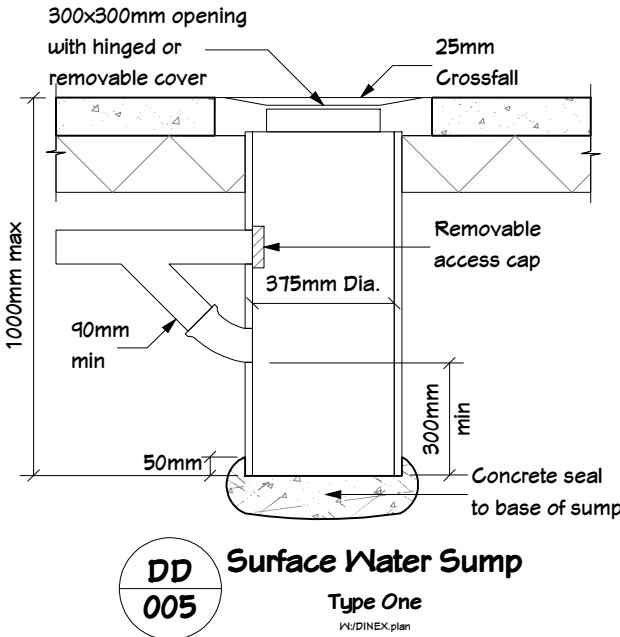
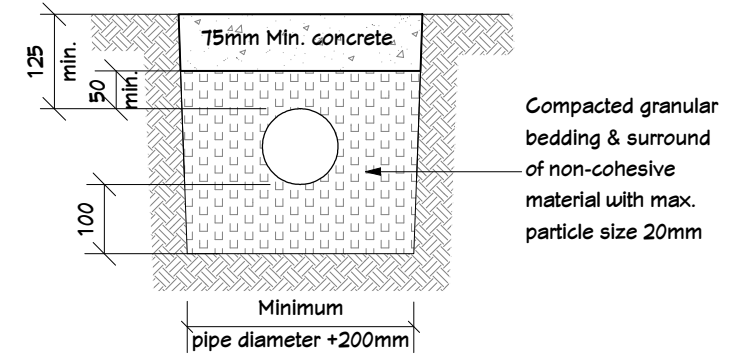
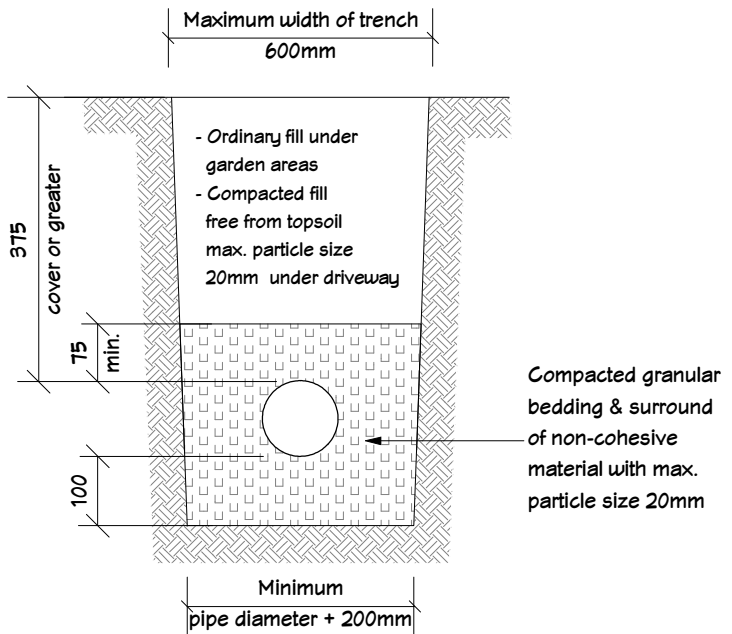
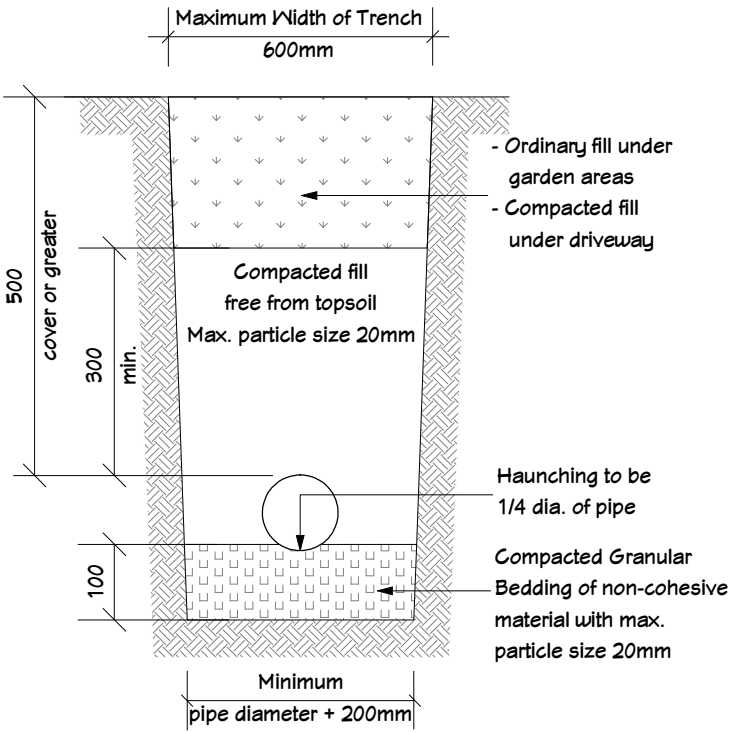


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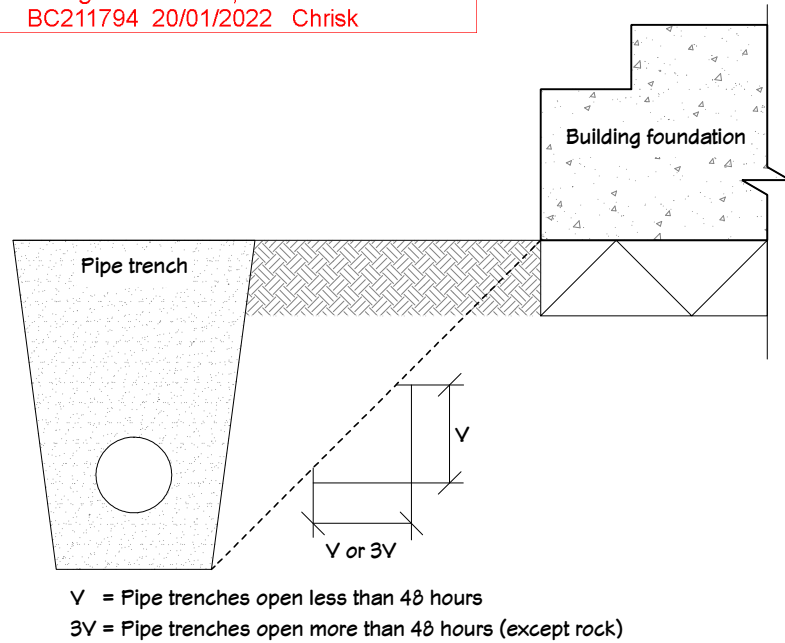


Plan Name - © GOLDEN HOMES HOLDINGS LTD

NOTES:



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BC211794 20/01/2022 Chrisk



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Canterbury

TERRITORIAL AUTHORITY:
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Residential Zone 1

SITE DATA (for zones upto & including):

Sub-soil Classification:	E
Soil Classification	REF GEOTECH
Wind Zone:	High
Earthquake Zone:	2
Exposure Zone:	C
Climate Zone:	3
Rain Intensity (10%AEF):	47.6mm/hr
Snowload:	1.0kPa

Drainage Details

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: N.T.S	SHEET No. 9 OF 38

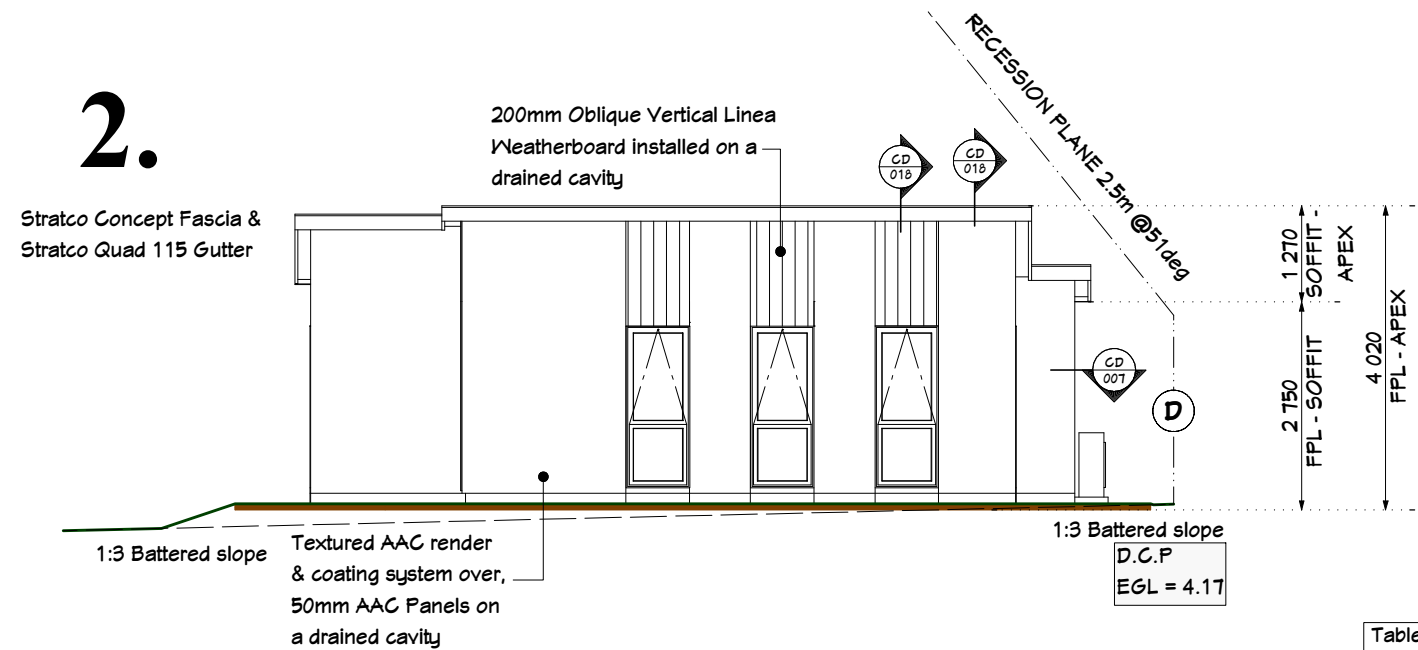
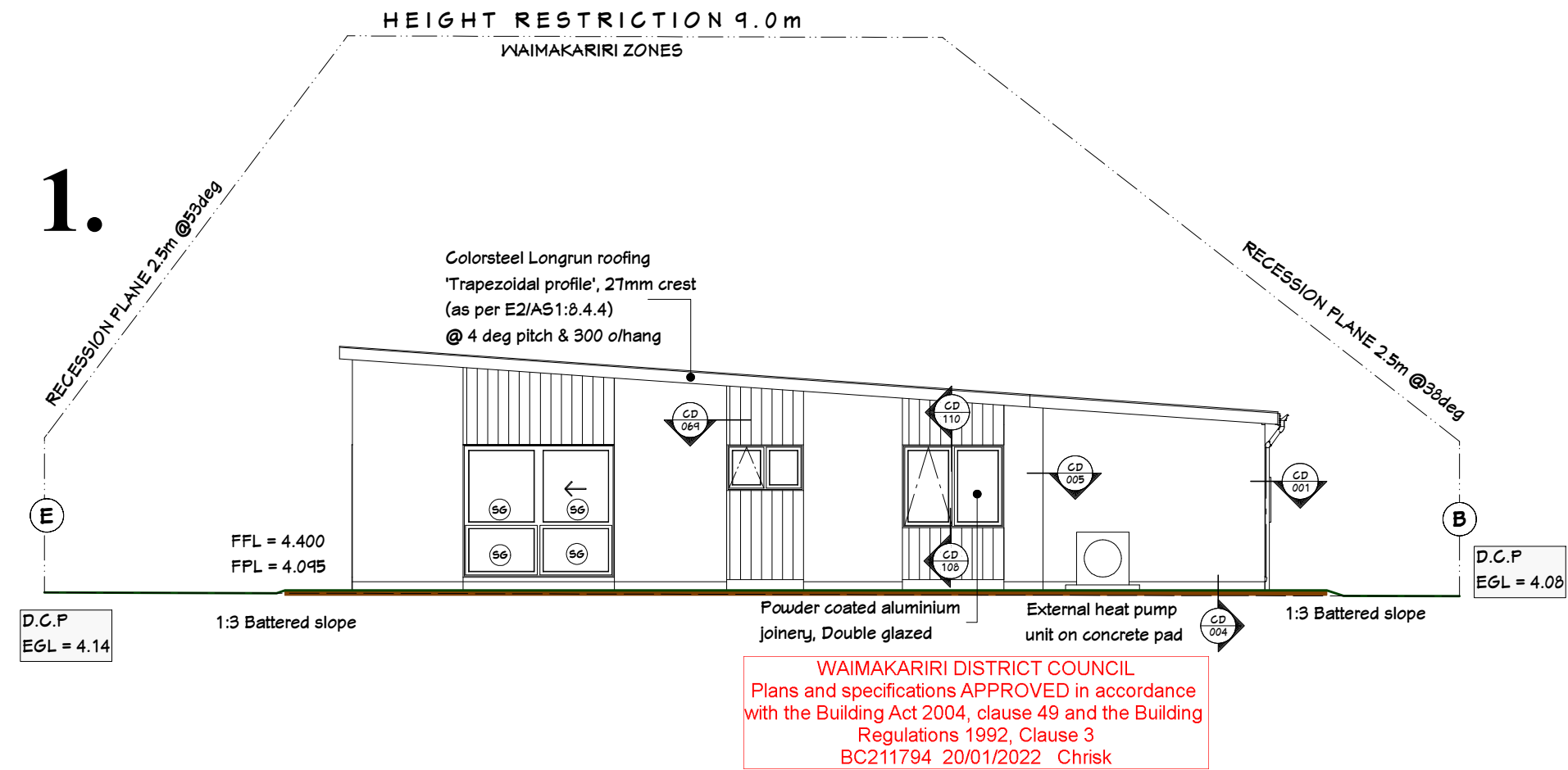


Table 2 Building envelope risk matrix Paragraph 3.1.2. Figure 1					
All Walls Risk factor	Risk Severity				Subtotals for each risk factor
	Low	Med	High	Very High	
Wind zone (per NZS 3604)	0	0	1	2	1
Number of storeys	0	1	2	4	0
Roof/wall intersection design	0	1	3	5	3
Eaves width	0	1	2	5	2
Envelope complexity	0	1	3	6	2
Deck Design	0	2	4	6	0
Total Risk Score					8



NOTES:

- If windows & doors are shown upto soffit, window and door sizes are to be measured on site prior to the manufacture of those units.

FFL = Finished Floor Level
FGL = Finished Ground Level
FPL = Finished Platform Level
EGL = Existing Ground Level

SG Indicates safety glass

Safety Glazing

- All glazing is to be in accordance with the NZ Building Code Handbook and NZS.4223, Parts 1, 2, & 3 Code of Practice for Glazing in Buildings.
- All glazing panels to bathrooms and toilets to have safety glazing to the interior panel only
- All glazing to be confirmed by the manufacturer prior to construction

Callout of Details

= Reference to Cladding Details CD###

CLIENT:

Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:

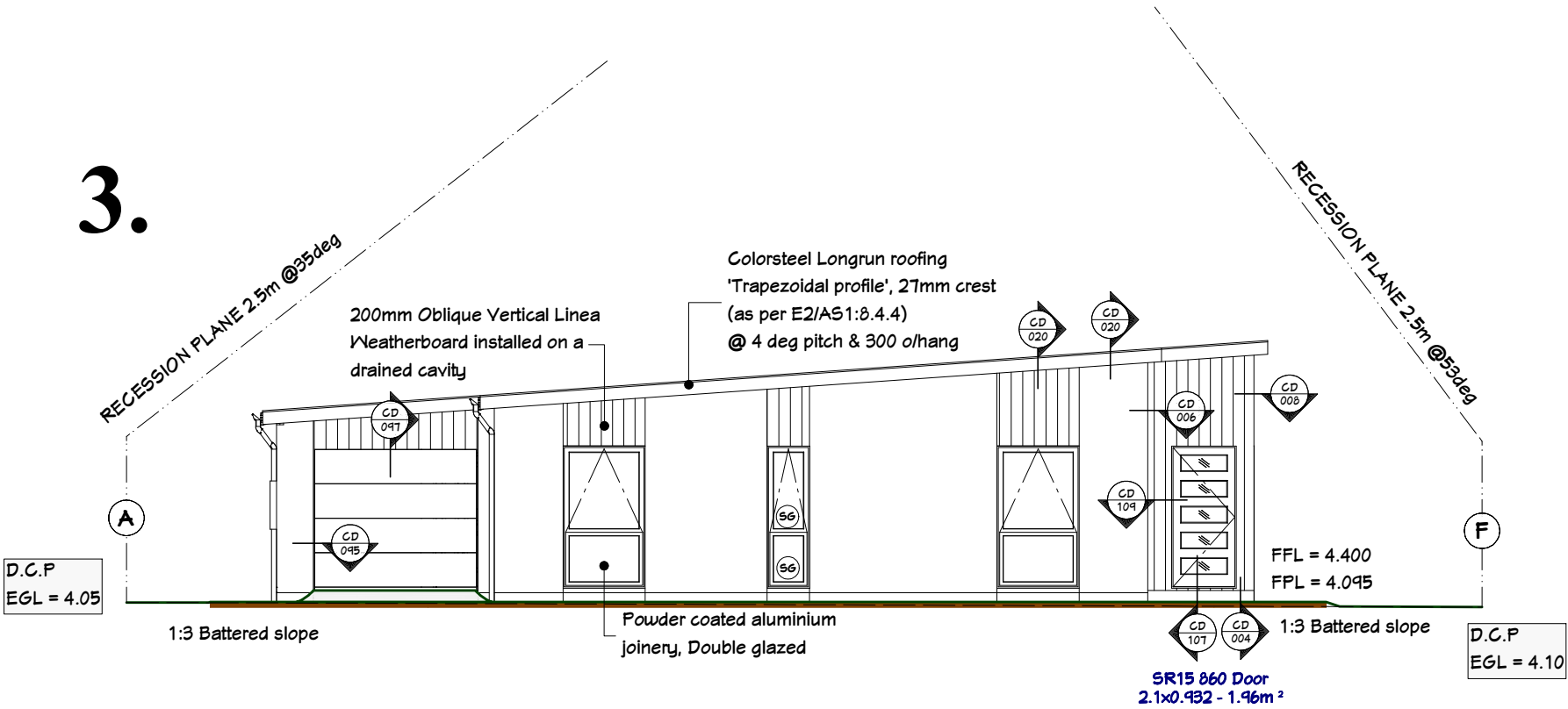
Waimakariri District Council
Residential Zone 1

SITE DATA (for zones upto & including):

Sub-soil Classification: E
Soil Classification REF GEOTECH
Wind Zone: High
Earthquake Zone: 2
Exposure Zone: C
Climate Zone: 3
Rain Intensity (10%AEF): 47.6mm/hr
Snowload: 1.0kPa

Elevations .1

JOB No: 97723 SALES: Aaron
LBP: C. Neame 101178
DRAWN: Katherine DATE: 27/08/2021
SCALE: 1:100 SHEET No. 10 OF 38



4.

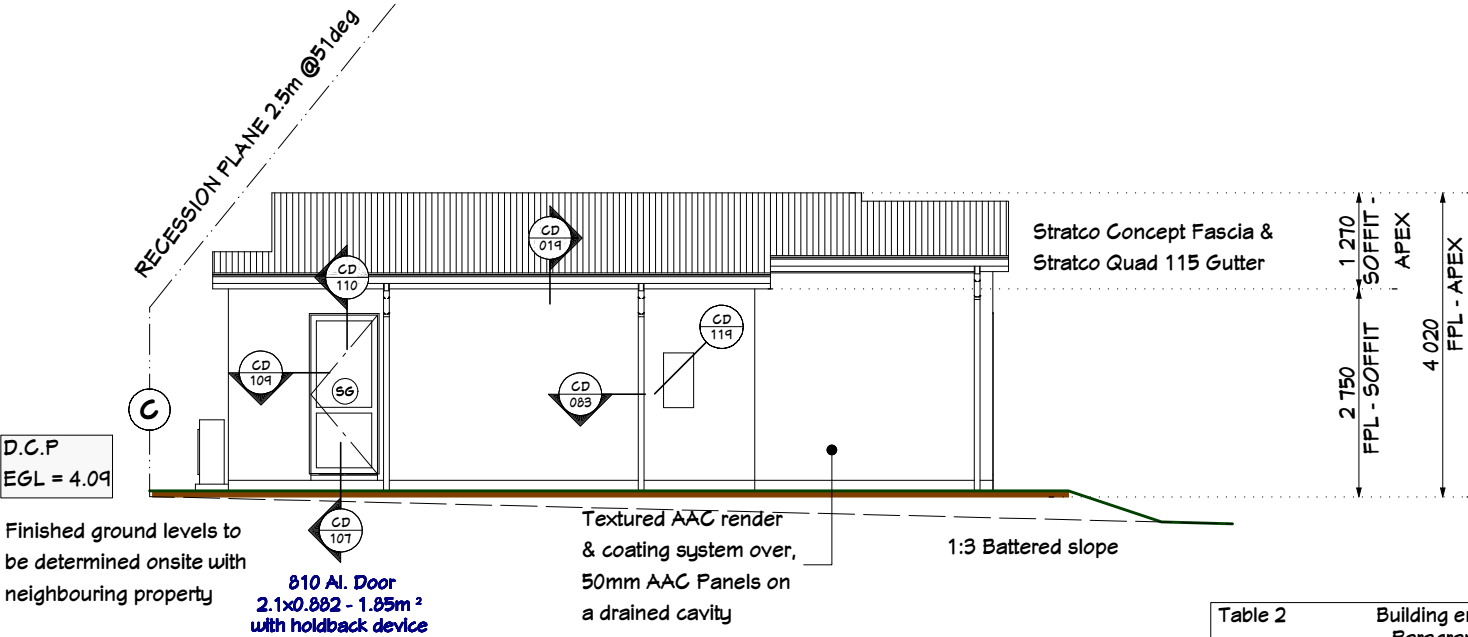


Table 2 Building envelope risk matrix Paragraph 3.1.2. Figure 1					
Risk factor	Risk Severity				Subtotals for each risk factor
	Low	Med	High	Very High	
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Number of storeys	0	1	2	4	0
Roof/wall intersection design	0	1	3	5	3
Eaves width	0	1	2	5	2
Envelope complexity	0	1	3	6	2
Deck Design	0	2	4	6	0
Total Risk Score					8



NOTES:

- If windows & doors are shown upto soffit, window and door sizes are to be measured on site prior to the manufacture of those units.

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FGL = Finished Ground Level
FPL = Finished Platform Level
EGL = Existing Ground Level

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- All glazing is to be in accordance with the NZ Building Code Handbook and NZS.4223, Parts 1, 2, & 3 Code of Practice for Glazing in Buildings.
- All glazing panels to bathrooms and toilets to have safety glazing to the interior panel only
- All glazing to be confirmed by the manufacturer prior to construction

Callout of Details

= Reference to Cladding Details CD####

CLIENT:

Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:

Waimakariri District Council
Residential Zone 1

SITE DATA (for zones upto & including):

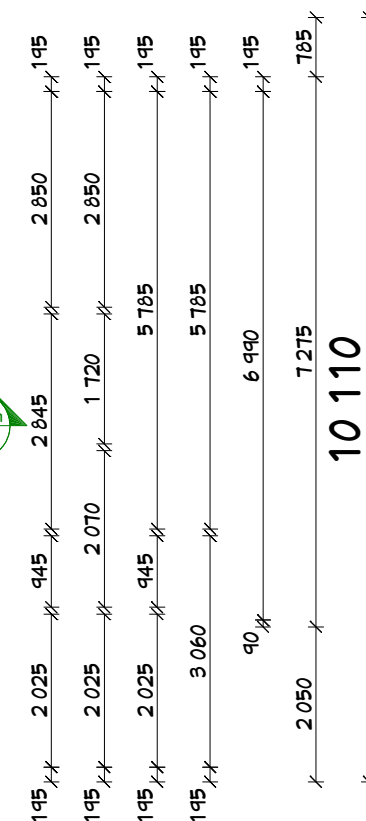
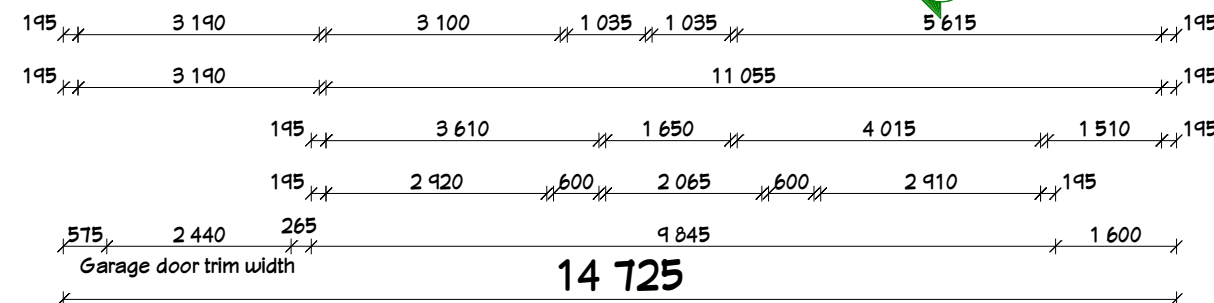
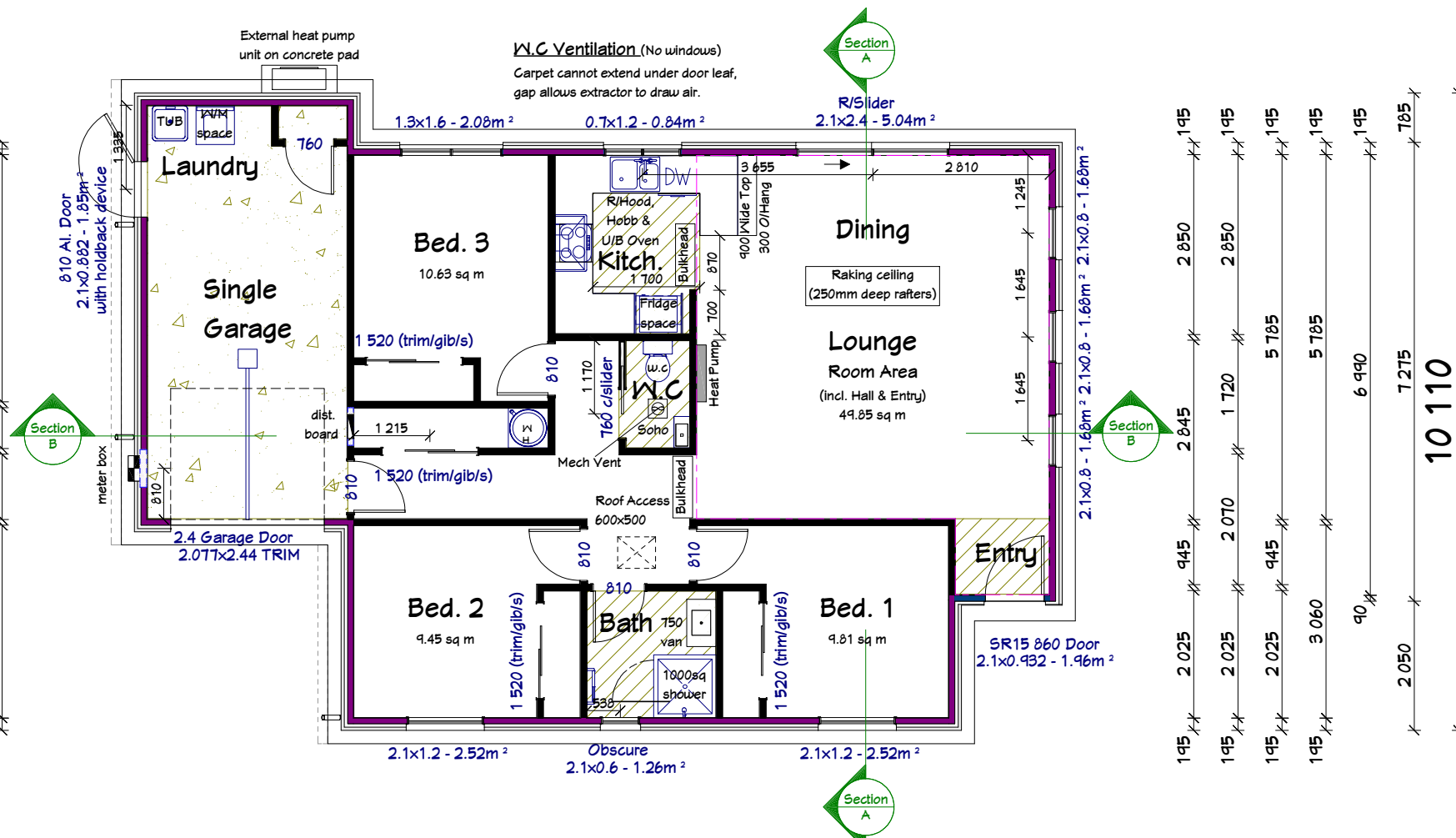
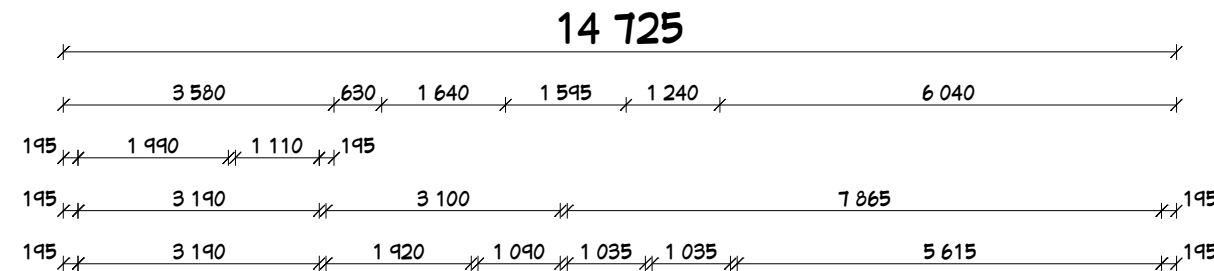
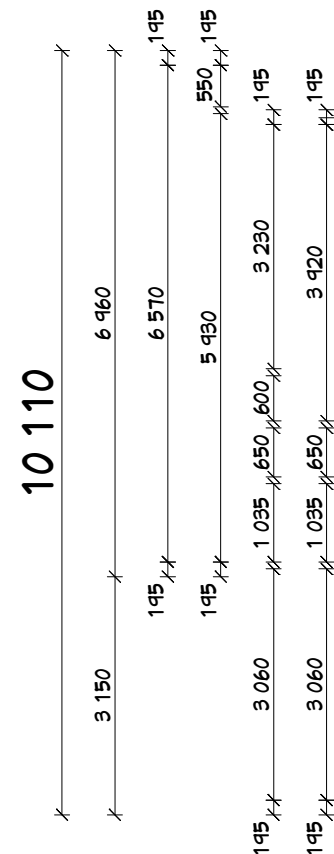
Sub-soil Classification: E
Soil Classification: REF GEOTECH
Wind Zone: High
Earthquake Zone: 2
Exposure Zone: C
Climate Zone: 3
Rain Intensity (10%AEF): 47.6mm/hr
Snowload: 1.0kPa

Elevations .2

JOB No: 97723 SALES: Aaron
LBP: C. Neame 101178
DRAWN: Katherine DATE: 27/08/2021
SCALE: 1:100 SHEET No. 11 OF 38

WAIMAKARIRI DISTRICT COUNCIL
Plans and specifications APPROVED in accordance
with the Building Act 2004, clause 49 and the Building
Regulations 1992, Clause 3
BC211794 20/01/2022 Chrisk

FLOOR COVERINGS	
	= Vinyl/Laminate
	= Tiles
	= Carpet
	= Concrete (Steel float finish)



J:\97000 NDM Construction\97723 Marshall\97723 Marshall.plan

TOTAL FLOOR AREA = 126.5sqm
LIVING AREA = 102.8sqm
GARAGE AREA (incl. Laun) = 23.7sqm
TOTAL ROOF AREA = 137.3sqm

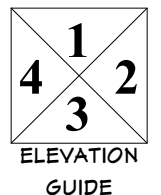
APPROXIMATE Exterior wall perimeter = 50.0m
APPROXIMATE Interior wall perimeter = 52.9m
APPROXIMATE Fascia & Gutter lineal meters = 10.5m
APPROXIMATE Barge lineal meters = 30.3m

Stud height - 2.42m throughout
Truss heel height - 180mm
Interior door leaf height - 1980



NOTES:

- 89x41mm ZOG® framing
- Natural lighting is provided via glazing to 10% of floor areas for individual rooms
- Natural ventilation is provided via exterior openings of no less than 5% of floor area for individual rooms
- Internal and external walking surfaces to comply with NZBC D1/A51 2.1.1 - 2.1.3, and Table 2
- External Access Routes surface is either; brushed concrete, exposed crushed aggregate concrete, profiled timber with the profile across the direction of travel, or be flooring selected by the client with a wet slip coefficient of no less than 0.4, refer to the specification for compliance procedure in such situations
- Where FFL is greater than 1.0m from FGL and the bottom of the opening is closer than 760mm to the FFL or a climbable fixture, a restrictor stay is to be fitted to limit the maximum opening so that a 100mm dia sphere cannot pass through it.
- All access routes are to be protected by dangerous projections as shown in D1/A51, Fig 6



CLIENT:

Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:

Waimakariri District Council
Residential Zone 7

SITE DATA (for zones upto & including):

Sub-soil Classification: E
Soil Classification: REF GEOTECH
Wind Zone: High
Earthquake Zone: 2
Exposure Zone: C
Climate Zone: 3
Rain Intensity (10%AEF): 47.6mm/hr
Snowload: 1.0kPa

Floor Plan

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: 1:100	SHEET No. 12 OF 38

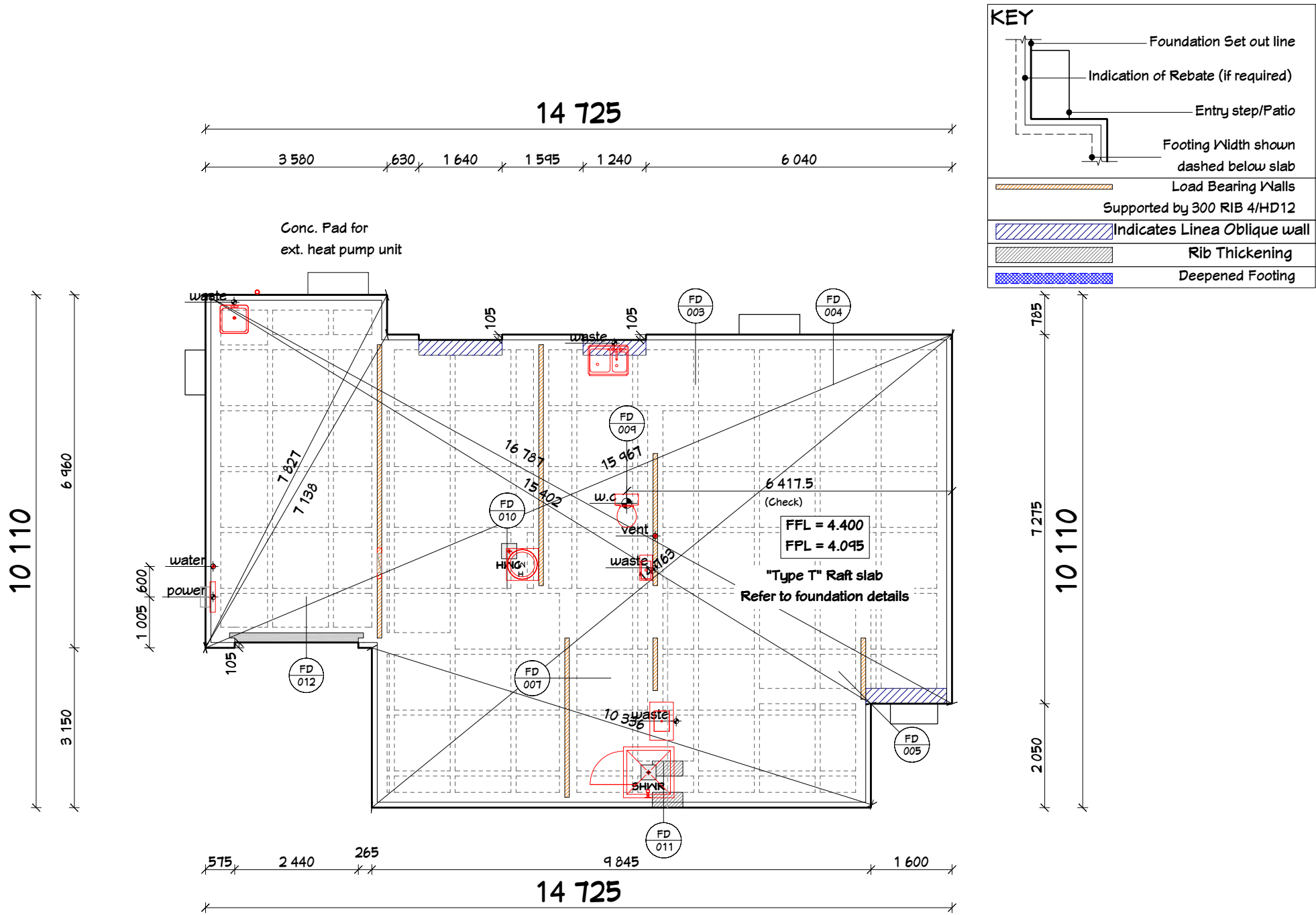
Excavation and foundation compaction to be in accordance with the geotechnical report accompanying the drawings. (ref page 1 for report)

Minimum Ultimate Bearing Capacity required for slab is: 200kPa

Extent of Platform beyond Foundation Edge: 1000mm (except where Deepened Foundation Edges are shown)

Dig out depth is: All topsoil (Approximate only to be confirmed on-site during excavation)

General Notes:All earthworks to be inspected by qualified Geotech engineer.



MAXIMUM PIPE RUNS (Slab to provide top cover; 85mm min bottom cover)		
PIPE DIA	GRADIENT	MAX DISTANCE 220mm PODS
40mm	1:40	3480mm
50mm	1:40	3080mm
65mm	1:40	2480mm
INCREASED RUNS		
Additional distance can be achieved by thickening the rib and edge beam		
• 50mm thickening	= 2000mm of additional distance	
• 100mm thickening	= 4000mm of additional distance	

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
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 BC211794 20/01/2022 Chrisk

NOTES:

- The dimensions on this foundation plan are an indication only and have been shown to help verify each trades on calculation from the floor plan.
- Refer to the cladding detail sheets for all cladding rebates.
- Concrete pour must not start until the earth bonding has been completed.
- No slab shrinkage saw cuts are to be made in this raft slab under any circumstances unless specifically asked for by the consulting engineer.
- Unless specified in detail Concrete to be 20MPa (or 25MPa when Timber Driven Piles are shown or within TC2, TC3 zones or exposure zone D) at 28 days.
- Excavation and hardfill to a depth as required to reach good ground bearing
- Granular fill material shall be placed and compacted in layers of 150mm maximum thickness, over the area beneath the proposed ground slab and other isolated pads (beneath building platform) so that the total thickness of granular base is not less than 75 mm nor more than 600 mm.
- If the finished platform could cause intrusions to DPM layer, it must be protected by blinding the hardfill with sand 5-25mm thick.
- Where kitchen islands are isolated, conduits will be required for power and/or water.

CLIENT:

Marshall Residence
Lot 11, DP 540916
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Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:

Waimakariri District Council
Residential Zone 7

SITE DATA (for zones upto & including):

Sub-soil Classification: E

Soil Classification REF GEOTECH

Wind Zone: High

Earthquake Zone: 2

Exposure Zone: C

Climate Zone: 3

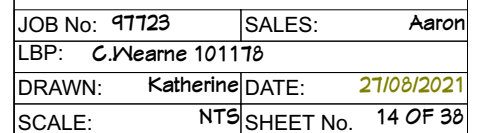
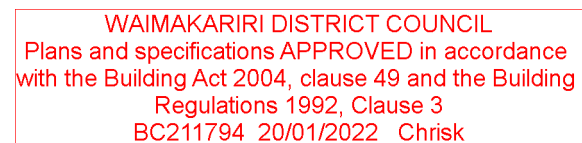
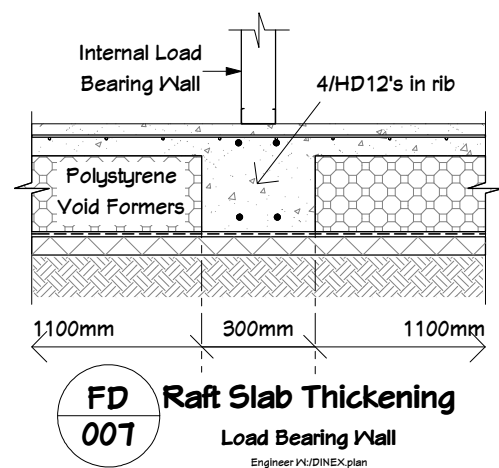
Rain Intensity (10%AEF): 47.6mm/hr

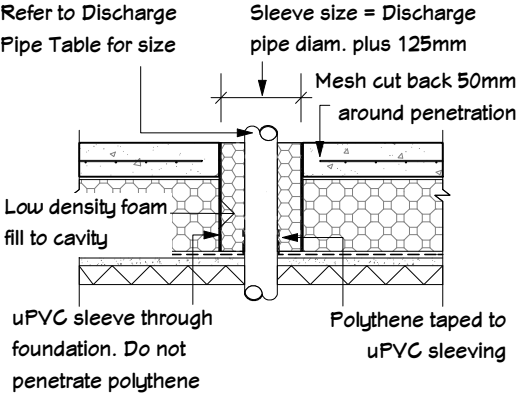
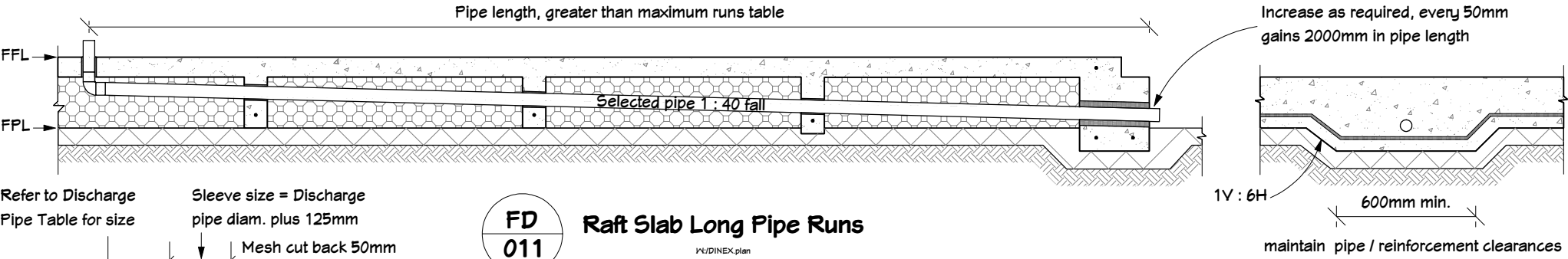
Snowload: 1.0kPa

Foundation Plan

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: 1:100	SHEET No. 13 OF 38

Plan Name - © GOLDEN HOMES HOLDINGS LTD

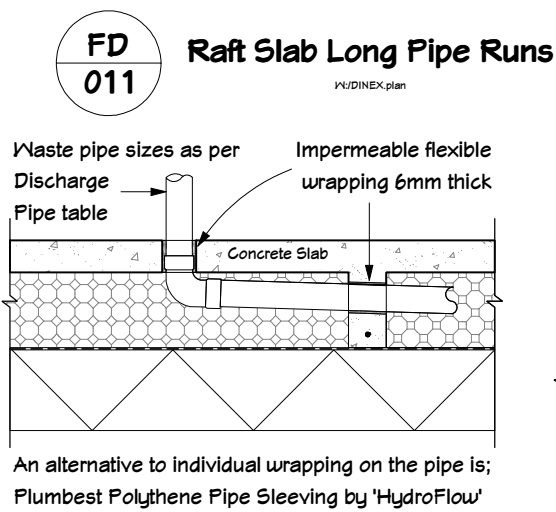




FD 009 Raft Slab Pipe Penetration

Sleeved Thru Slab

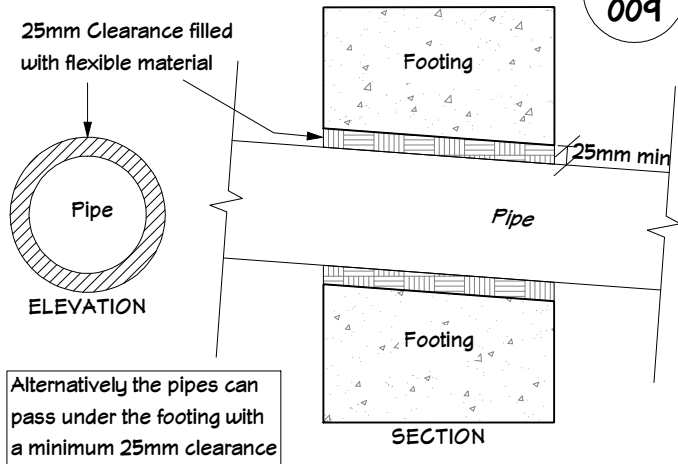
W/D/DINEX plan



FD 009 Raft Slab Pipe Penetration

Sleeved Thru Ribs

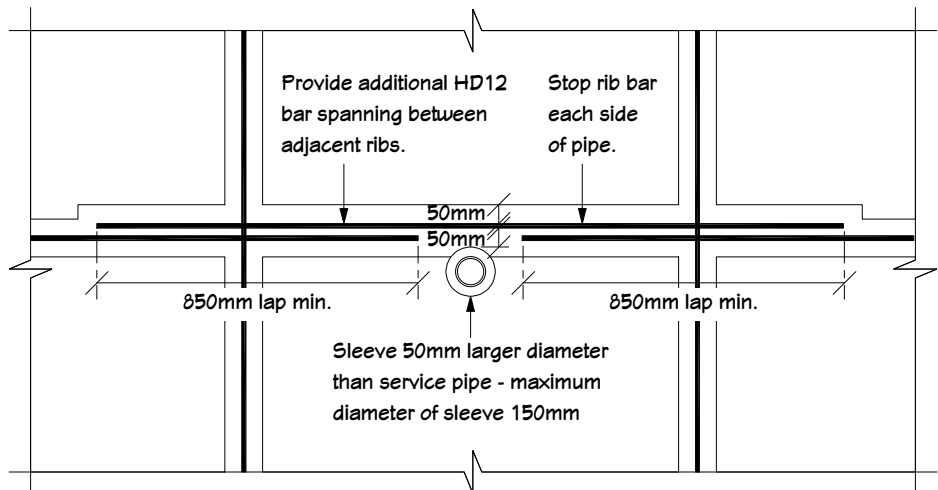
W/D/DINEX plan



FD 009 Pipe Penetration

Sleeved through Footing

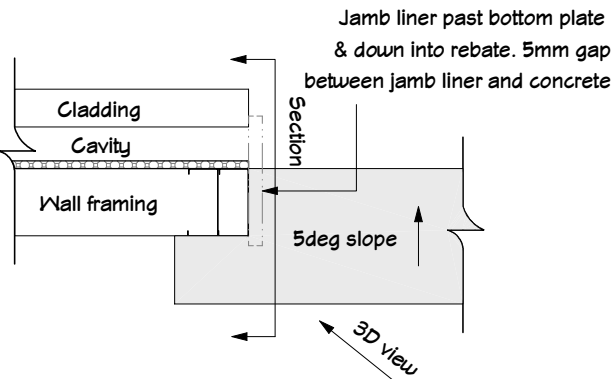
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FD 010 Raft Slab Pipe Penetration

Pipe Within Rib

W/D/DINEX plan

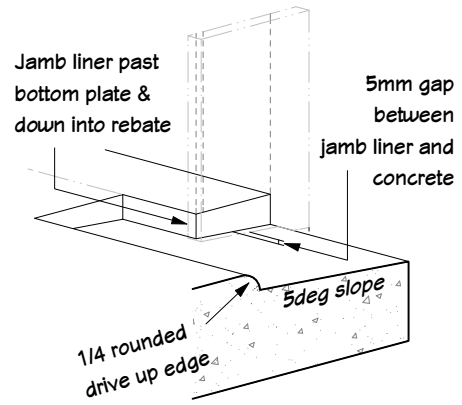


FD 012 Garage Door Rebate

Plan View

W/D/DINEX plan

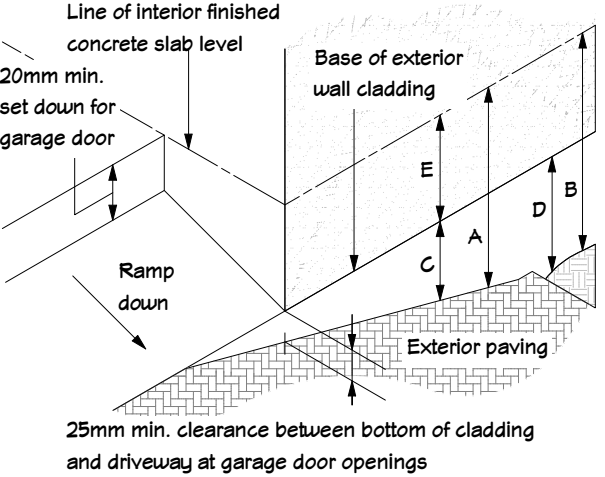
WAIMAKARIRI DISTRICT COUNCIL
Plans and specifications APPROVED in accordance with the Building Act 2004, clause 49 and the Building Regulations 1992, Clause 3
BC211794 20/01/2022 Chrisk



FD 012 Garage Door Rebate

Interior 3D View

W/D/DINEX plan

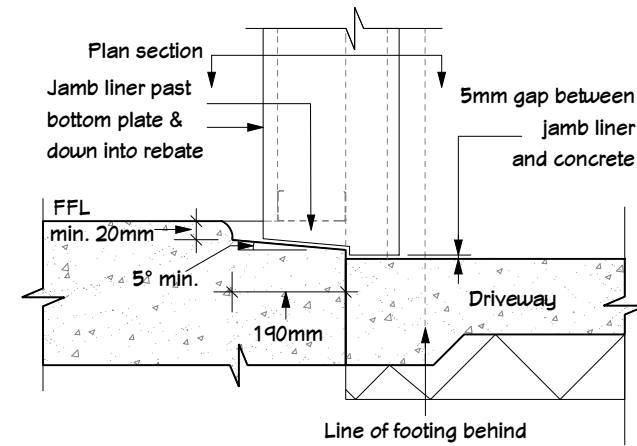


Minimum clearances (mm)	Masonry veneer		Other claddings				
	A	B	A	B	C	D	E
Concrete slab	100	150	150	225	100	175	50

FD 012 Garage Door Rebate

Exterior 3D View

W/D/DINEX plan



FD 012 Garage Door Rebate

Section

W/D/DINEX plan



- NOTES:
- DPM under the slab to be - polyethylene not less than 0.25 mm thick and installed as per NZS:3604
 - Concrete slab reinforcement to be earth bonded with rod approx 400 long tied to the mesh and top rod of the perimeter where power and water enters dwelling, and to comply with NZBC Clause G9.3.1a
 - All reinforcing is to be in accordance with NZS 4671.
 - All HD12 reinforcing should be lapped 720mm min.
 - For cladding and floor clearances, refer to cladding details
 - The finished ground level adjoining the raft slab shall be formed so as to carry water away from the building, at a slope not less than 1:25 for a minimum distance of 1.0m. As per NZS:3604
 - Minimum clearance for reinforcement unless shown otherwise:
Exposed during construction = 25mm,
Slab mesh = 30mm from top of slab,
Raft foundation = 50mm from bottom and to external faces
 - Unless specified in detail Concrete to be 20MPa (or 25MPa when Timber Driven Piles are shown or within TC2, TC3 zones or exposure zone D) at 28 days.

CLIENT:

Marshall Residence

Lot 11, DP 540916

Greengrass Crescent

Silverstream B9, Kaiapoi,

Canterbury

TERRITORIAL AUTHORITY:

Waimakariri District Council

Residential Zone 7

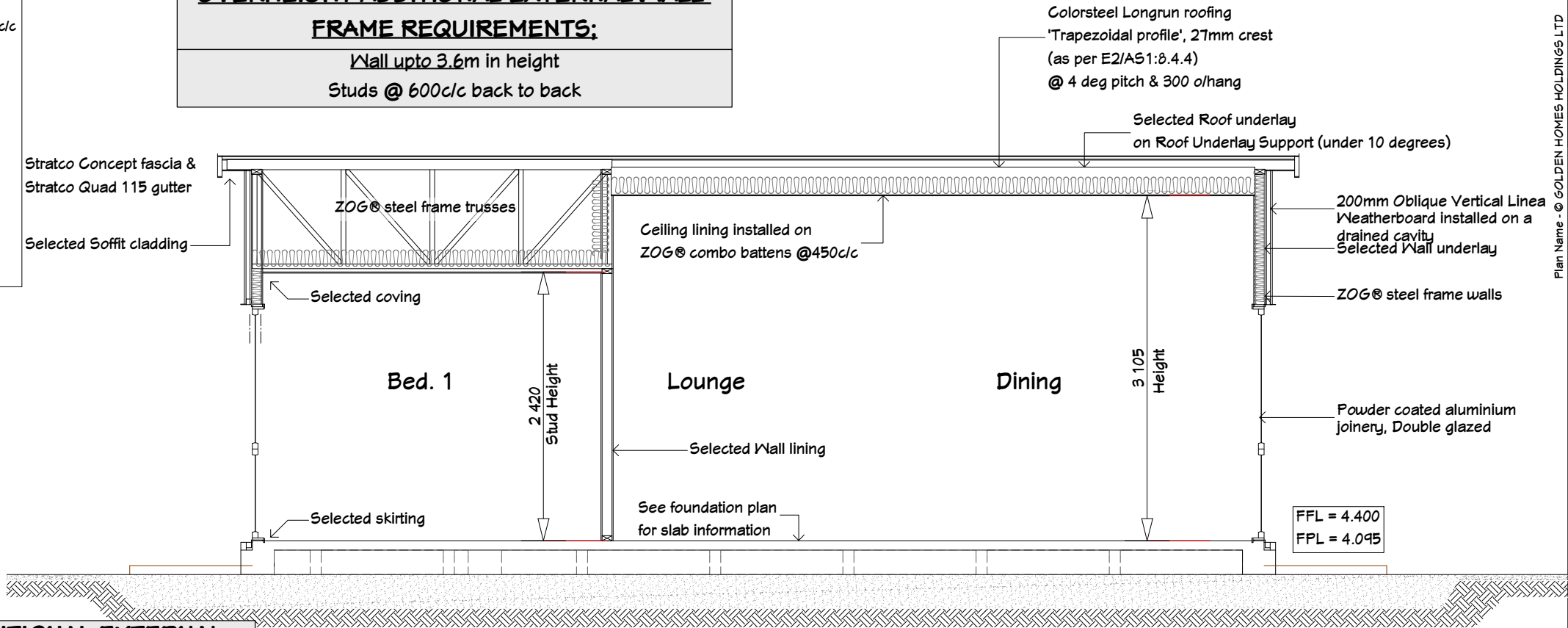
SITE DATA (for zones upto & including):

Sub-soil Classification:	E
Soil Classification	REF GEOTECH
Wind Zone:	High
Earthquake Zone:	2
Exposure Zone:	C
Climate Zone:	3
Rain Intensity (10%AEF):	47.6mm/hr
Snowload:	1.0kPa

Foundation Details 2		
JOB No:	97723	SALES: Aaron
LBP:	C. Neame	101178
DRAWN:	Katherine	DATE: 27/08/2021
SCALE:	NTS	SHEET No. 15 OF 38

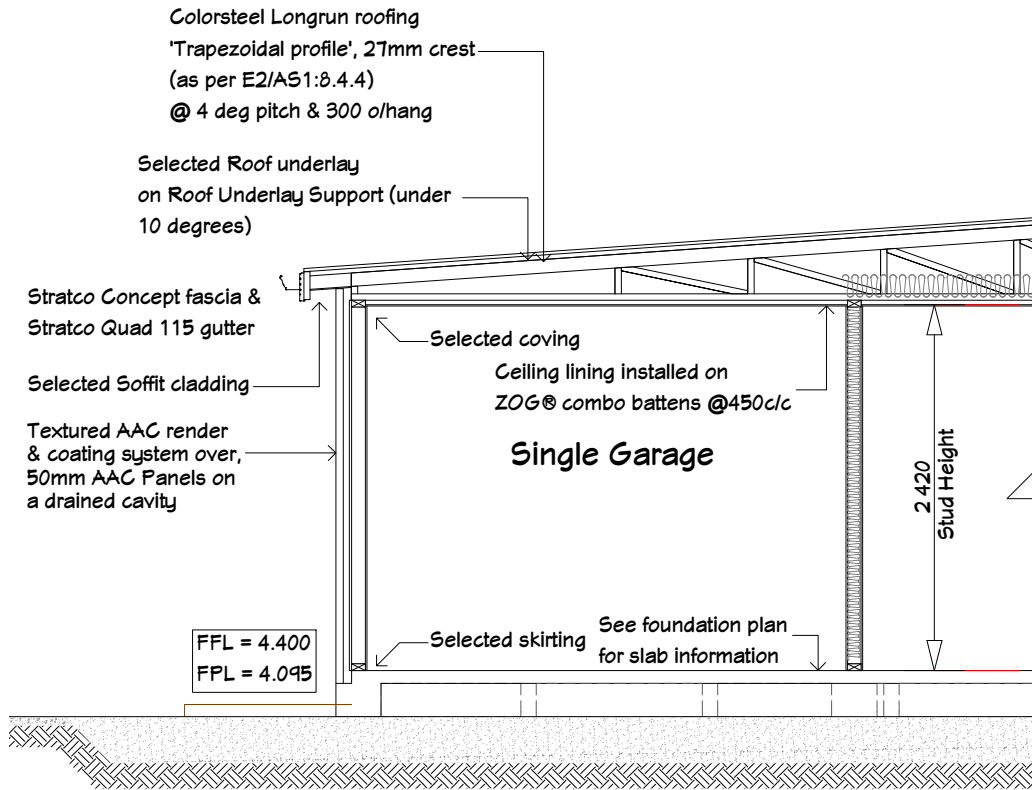
Structure:	ZOG® steel frame trusses ZOG® steel frame walls Metal purlins@450mm c/c ZOG® ceiling battens @ 450c/c
Overhang:	Refer elevations/Floor plan
Fascia system:	Refer to Product Schedule
Roof Underlay:	Refer to Product Schedule
Roof Underlay	
Support:	Refer to Product Schedule
Soffit:	Refer to Product Schedule
Thermal break	
& Wall Underlay:	Refer to Product Schedule
Cladding:	Refer to Product Schedule
Ceiling Lining:	Refer to Product Schedule
Wall lining:	Refer to Product Schedule
Joinery Frames:	Aluminium double glazed

OVERHEIGHT ADDITIONAL EXTERNAL WALL
FRAME REQUIREMENTS:
Wall upto 3.6m in height Studs @ 600c/c back to back

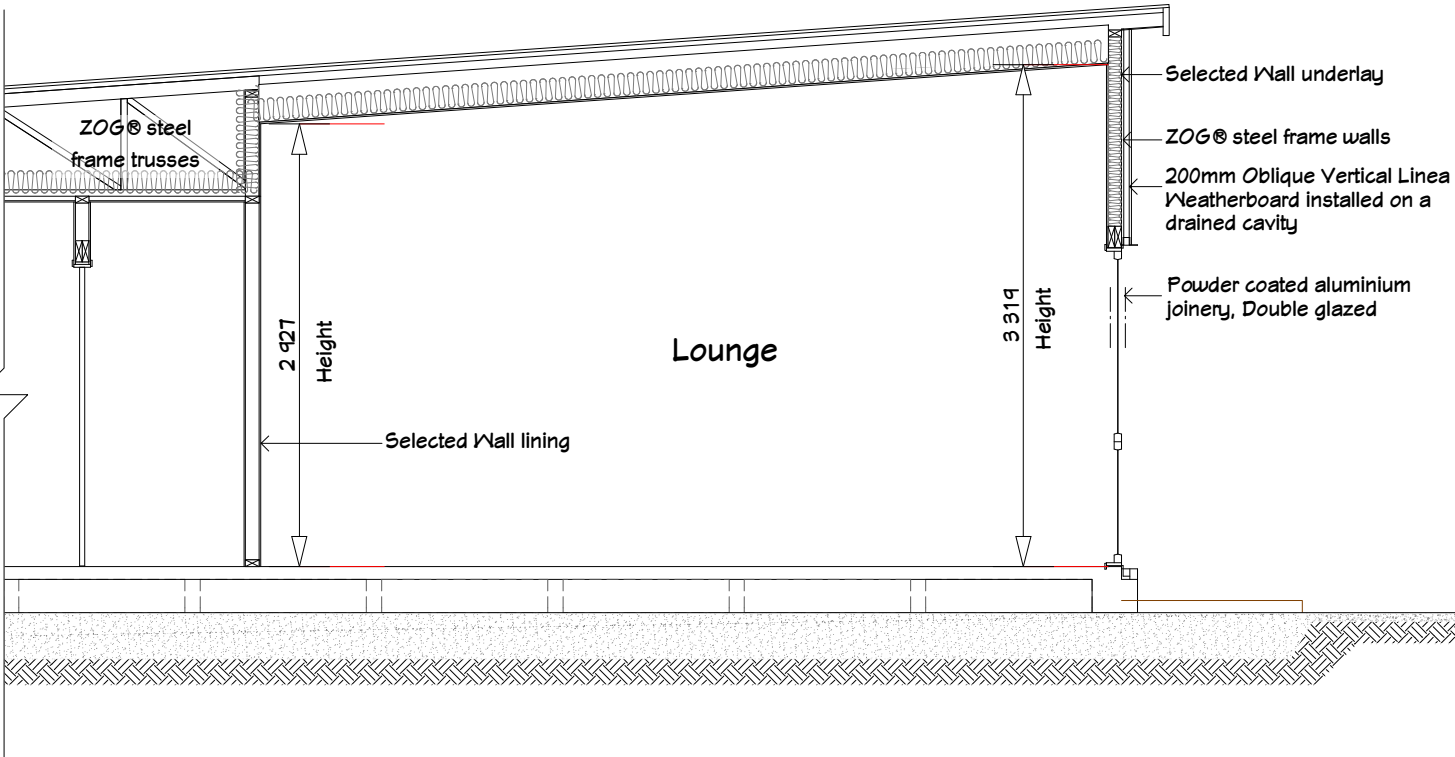


2420 STUDHEIGHT ADDITIONAL EXTERNAL WALL FRAME REQUIREMENTS:
(upto & incl. High wind)
AAC cladding
Studs @ 600c/c & Nogs @ 1200c/c
Linea Oblique (vert) Weatherboard cladding
Studs @ 600c/c & Nogs @ 600c/c

Cross Section A
 WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
 with the Building Act 2004, clause 49 and the Building
 Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk



Cross Section B



NOTES:

- Any timber used in the construction of the building must have a DPC layer separating it from any ZOG® steel framing.
- Roof underlay must be installed as per the manufacturers specification.

Fixings

- All fixings to be as per the latest ZOG® steel frame manual and comply with Section 4, Durability, NZS:3604:2011

INSULATION
 Walls = R-2.2 batts
 Ceiling = R-3.6 batts

CLIENT:

Marshall Residence
 Lot 11, DP 540916
 Greengrass Crescent
 Silverstream B9, Kaiapoi,
 Canterbury

TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):

Sub-soil Classification:	E
Soil Classification	REF GEOTECH
Wind Zone:	High
Earthquake Zone:	2
Exposure Zone:	C
Climate Zone:	3
Rain Intensity (10% AEP):	47.6mm/hr
Snowload:	1.0kPa

Cross Section

JOB No: 97723	SALES:	Aaron
LBP: C. Neame 101178		
DRAWN: Katherine	DATE:	27/08/2021
SCALE: 1:50	SHEET No.	16 OF 38



The bottom section of the page features two logos. On the left is the Golden Homes logo, which consists of a stylized yellow 'G' with a house silhouette integrated into it. To its right is the CodeMark logo, which includes a blue and black geometric icon followed by the text 'CODEMARK' in a bold, sans-serif font, with 'CM70023 Rev1' and a registered trademark symbol below it.

Bracing Element  **Bracing Element Lines** _____

- [illegible]

- Brace hold downs vary for Internal v's External braces

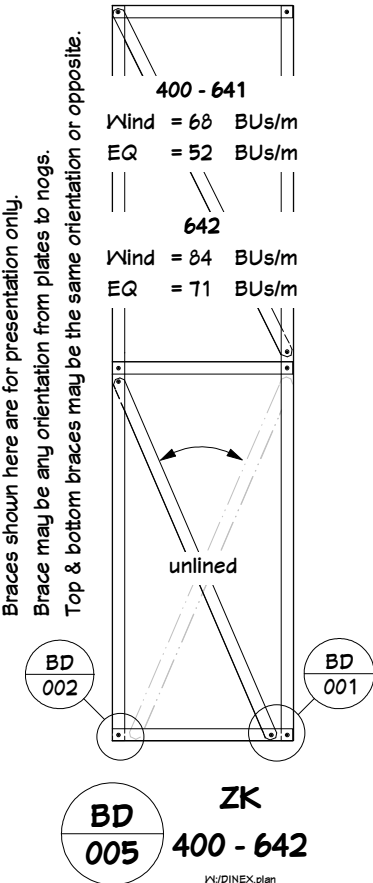
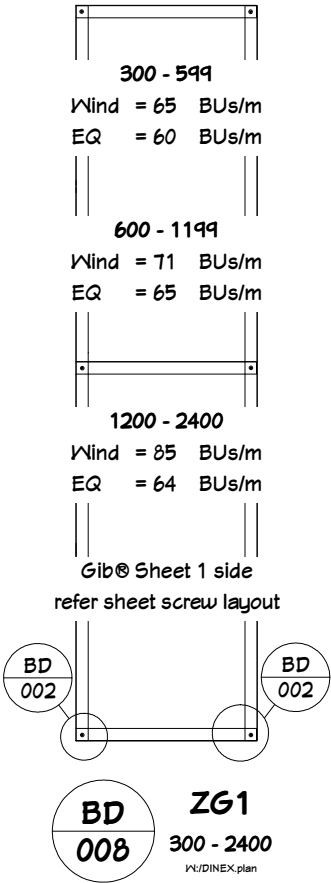
Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

SITE DATA (for zones upto & including):	
Sub-soil Classification:	E
Soil Classification	REF GEOTECH
Wind Zone:	High
Earthquake Zone:	2
Exposure Zone:	C
Climate Zone:	3
Rain Intensity (10%AEP):	47.6mm/hr
Snowload:	1.0kPa

Bracing Plan

JOB No: 97723	SALES: Aaron
LBP: C.Wearne 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: 1:100	SHEET No. 17 OF 38

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
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 Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk



0.75mm thick
 G550 Steel
 Sheet

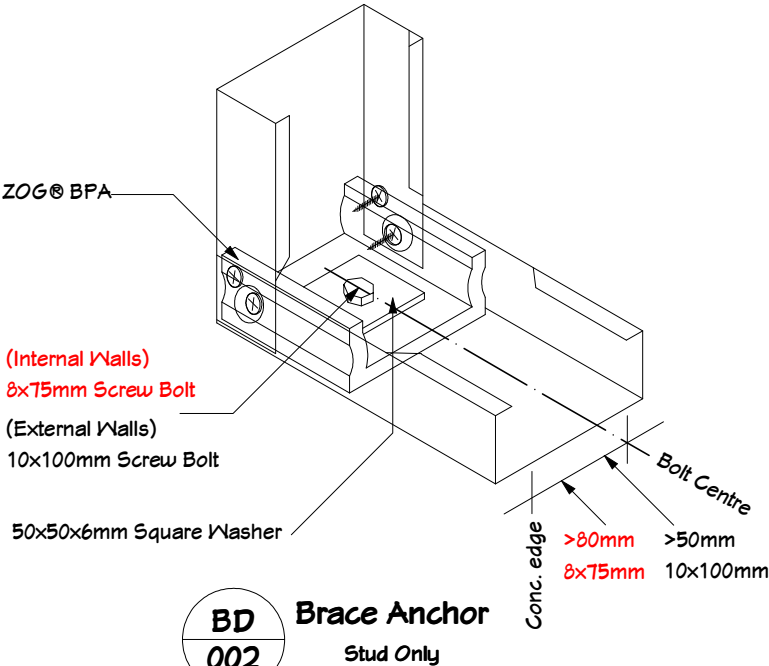
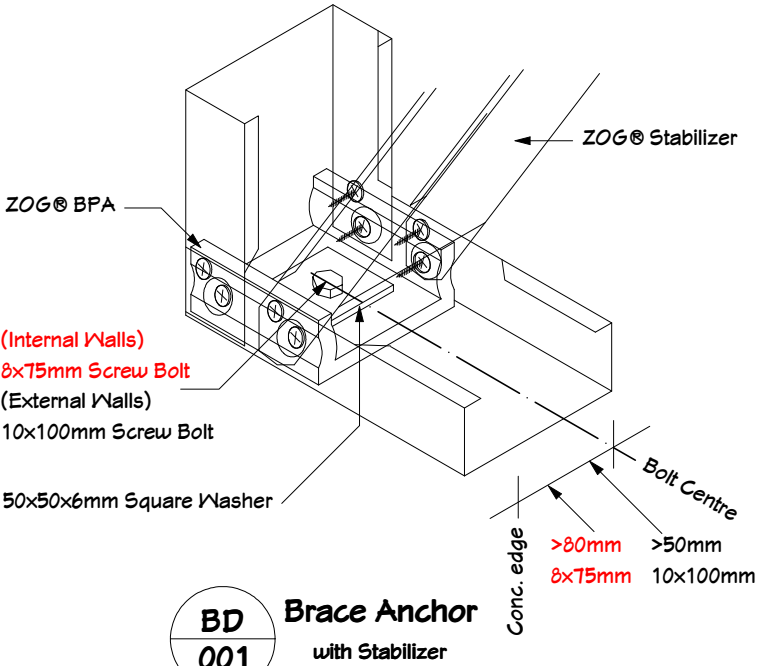
10-16x16mm
 Tek screws at
 50, 50, 50, 75,
 and 75mm
 from the edge
 of the sheet at
 cnrs and then
 at 150mm ctrs
 for the rest of
 the perimeter
 and any nogs
 or bracing
 framing.

Centre of the
 screw min.
 15mm from
 sheet edge

BD 004 Brace Steel Sheet
 Screw Layout

(No specific screw layout required
for braces noted as unlined)

W/DINEX plan



NOTES:

CLIENT:

Marshall Residence
 Lot 11, DP 540916
 Greengrass Crescent
 Silverstream B9, Kaiapoi,
 Canterbury

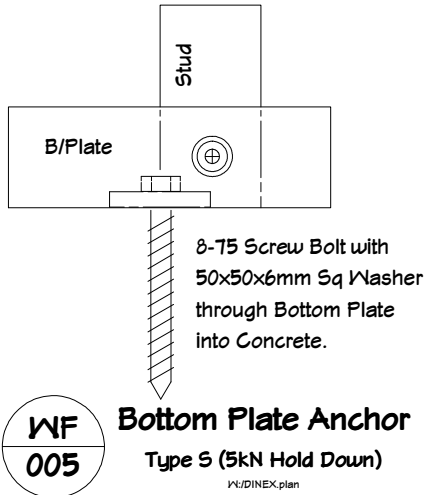
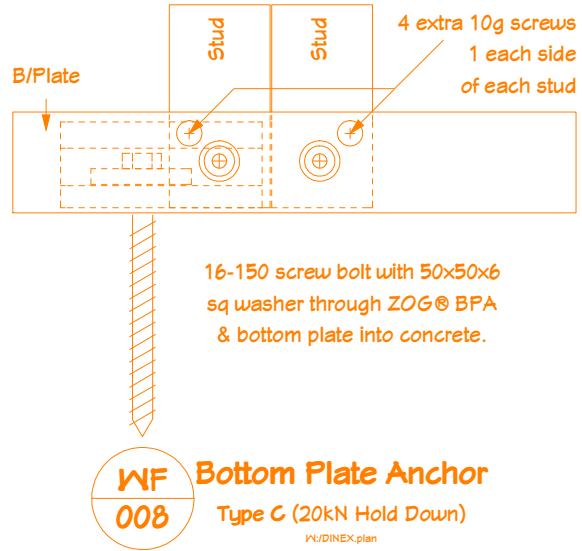
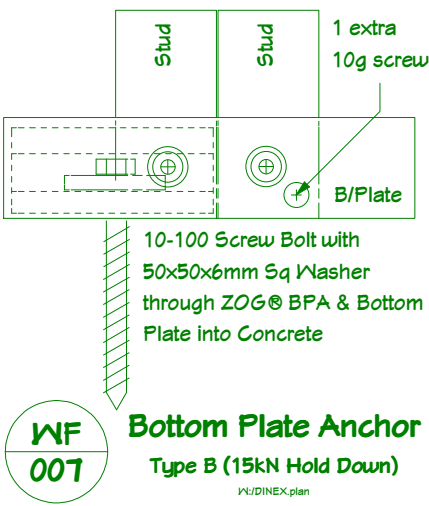
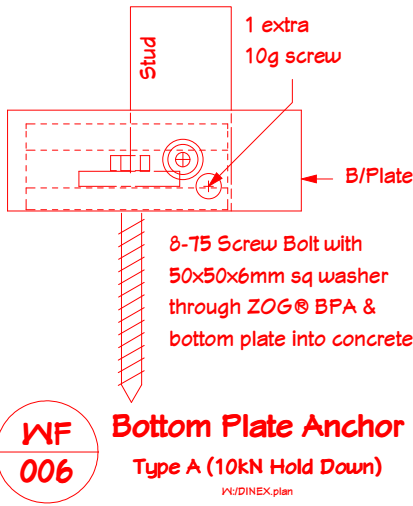
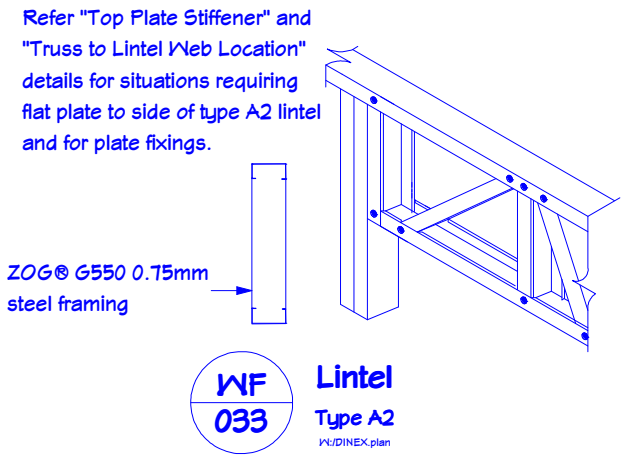
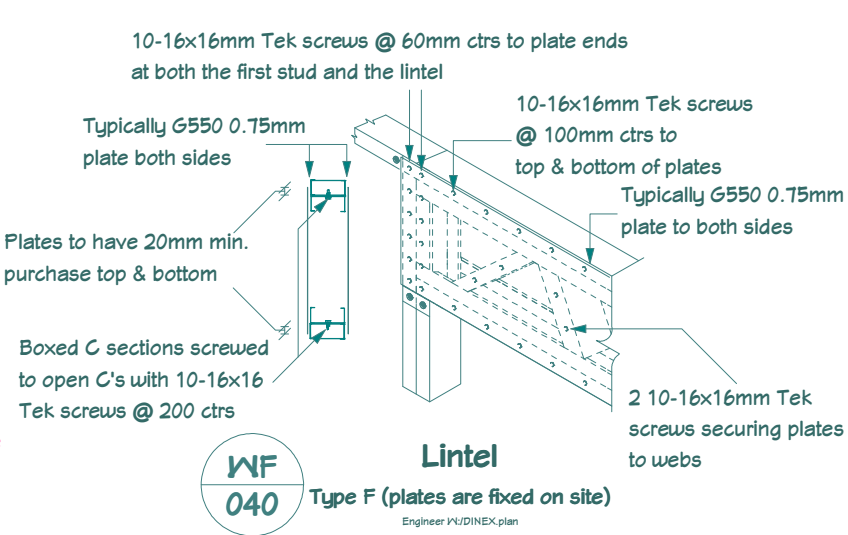
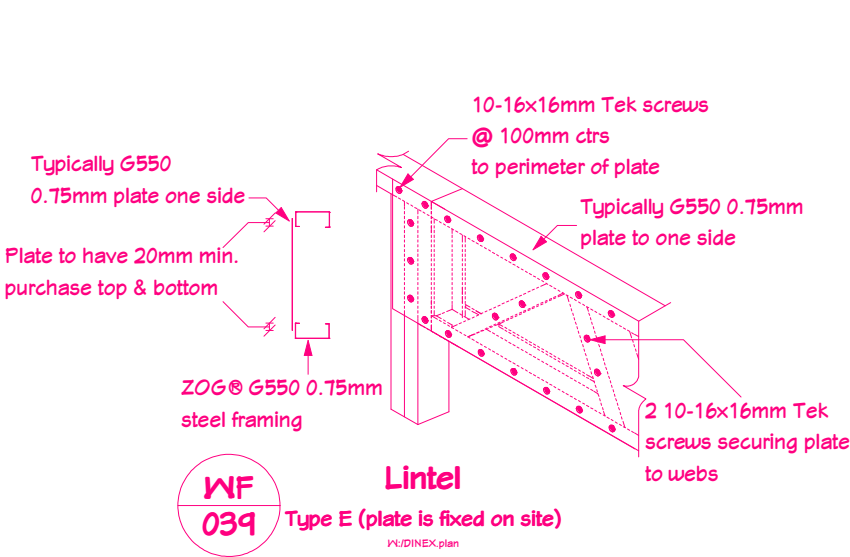
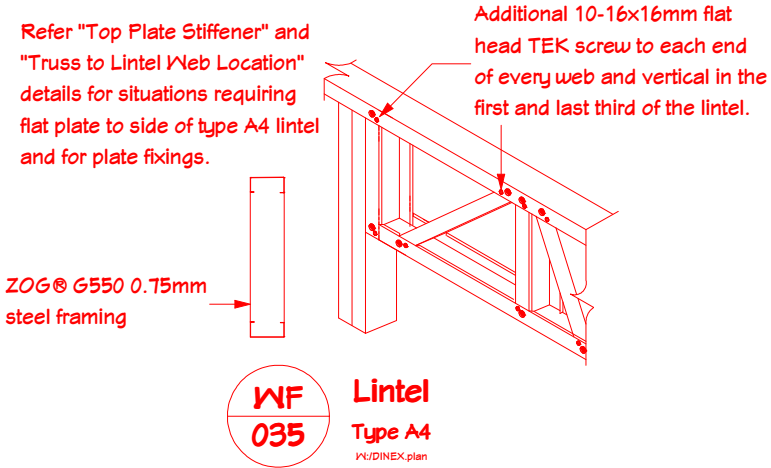
TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):

Sub-soil Classification: E
 Soil Classification REF GEOTECH
 Wind Zone: High
 Earthquake Zone: 2
 Exposure Zone: C
 Climate Zone: 3
 Rain Intensity (10%AEF): 47.6mm/hr
 Snowload: 1.0kPa

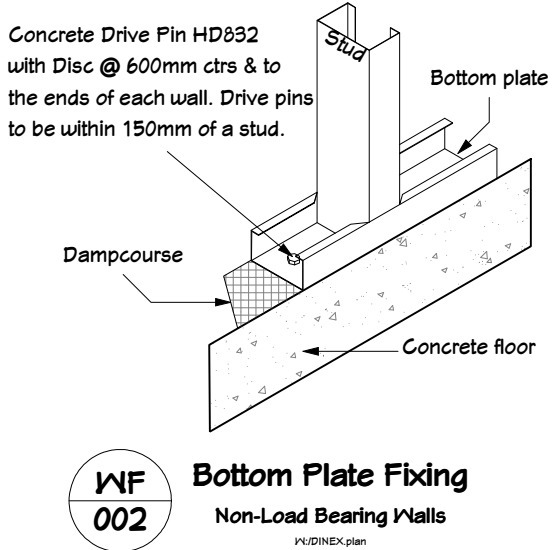
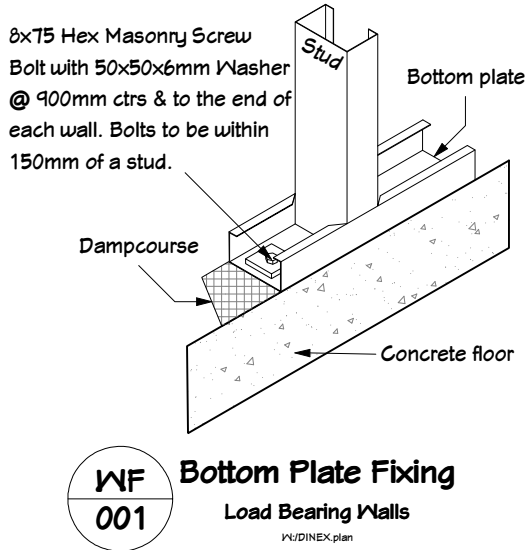
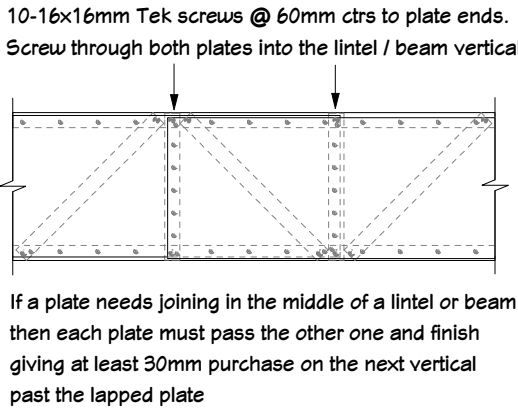
Bracing Details - Walls

JOB No: 97723 SALES: Aaron
 LBP: C. Neame 101178
 DRAWN: Katherine DATE: 27/08/2021
 SCALE: N.T.S SHEET No. 18 OF 38



Bottom Plate Hold Down Table WF010

Type	Uplift (kN)	Description
Standard	7.50	Galv. 8-75 with 50x50x6 washer
A	10.00	Galv. 8-75 with ZOG BPA & 50x50x6 washer
B	15.00	Galv. 10-100 with ZOG BPA & 50x50x6 washer
C	20.00	Galv. 16-150 with ZOG BPA & 50x50x6 washer



- NOTES:
- Hold Down Labels** **A** **B**
- Hold downs for lintels are shown on the Floor Framing Layout page of the detailing plans. Any opening not showing a hold down label are type S. All other types are labeled.
 - Hold downs for trusses are shown on the Hold Down Plan. All trusses must have a minimum of type S at the stud below the truss on all load bearing walls.
 - Refer to Top Plate Details for transfer of loads to studs where trusses are not within 100mm ctrs to the nearest stud.
 - Refer to Floor Framing Layout plan for opening lintel types. Where lintel plates are required, they are to be fixed on site as shown in these lintel details.

CLIENT:

Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):

Sub-soil Classification: **E**

Soil Classification **REF GEOTECH**

Wind Zone: **High**

Earthquake Zone: **2**

Exposure Zone: **C**

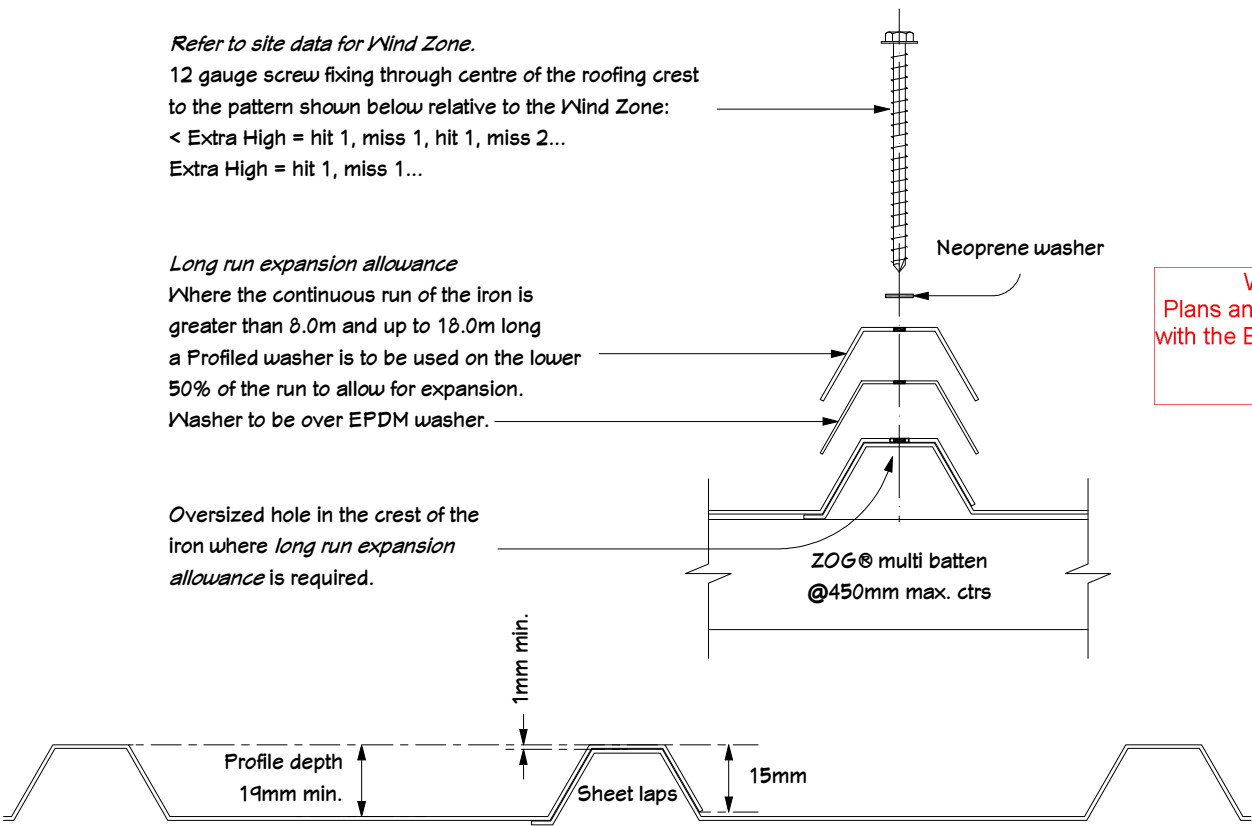
Climate Zone: **3**

Rain Intensity (10%AEF): **47.6mm/hr**

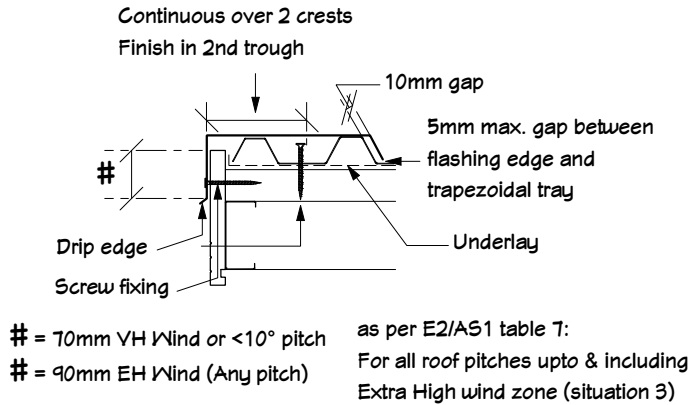
Snowload: **1.0kPa**

Wall Frame Details - Lintels & Hold Downs		
JOB No: 97723	SALES:	Aaron
LBP: C/Neame 101178		
DRAWN: Katherine	DATE:	27/08/2021
SCALE: N.T.S	SHEET No.	19 OF 38

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
 with the Building Act 2004, clause 49 and the Building
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 BC211794 20/01/2022 Chrisk



WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance with the Building Act 2004, clause 49 and the Building Regulations 1992, Clause 3
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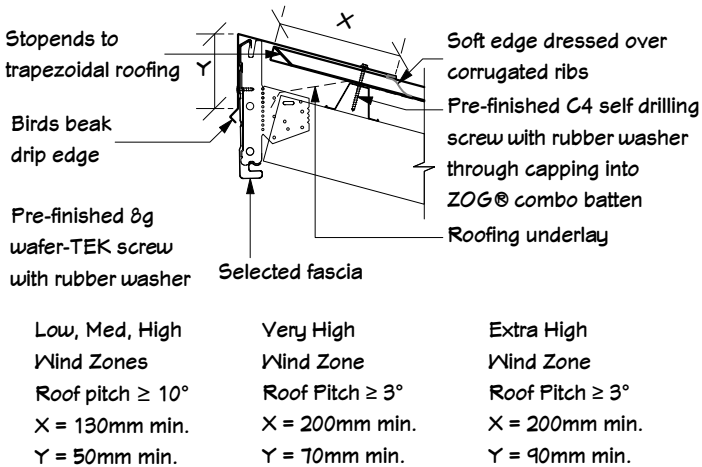


RF
 012

Barge Flashing
Longrun Trapezoidal Iron
W/DINEX plan

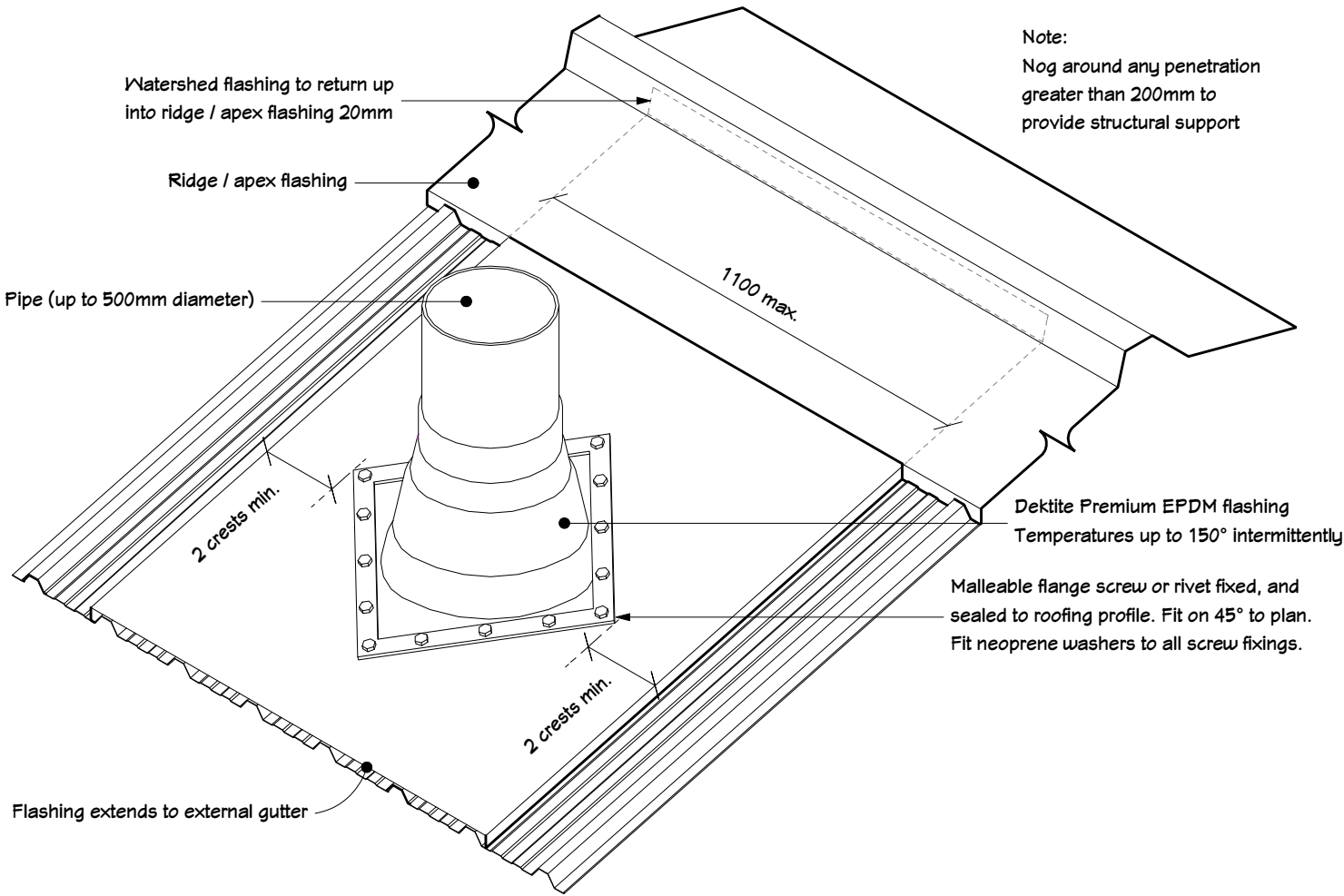
RF
 001

Roofing Fixing
Longrun Trapezoidal Iron
W/DINEX plan



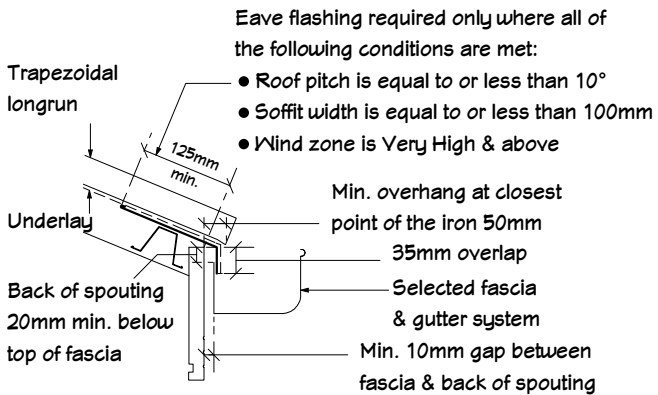
RF
 003

Apex Flashing
Longrun Trapezoidal Iron
W/DINEX plan



RF
 085

Pipe Penetration
Watershed Flashing Longrun
W/DINEX plan



RF
 011

External Gutter
Longrun Trapezoidal Iron
W/DINEX plan



NOTES:

CLIENT:

Marshall Residence
 Lot 11, DP 540916
 Greengrass Crescent
 Silverstream B9, Kaiapoi,
 Canterbury

TERRITORIAL AUTHORITY:

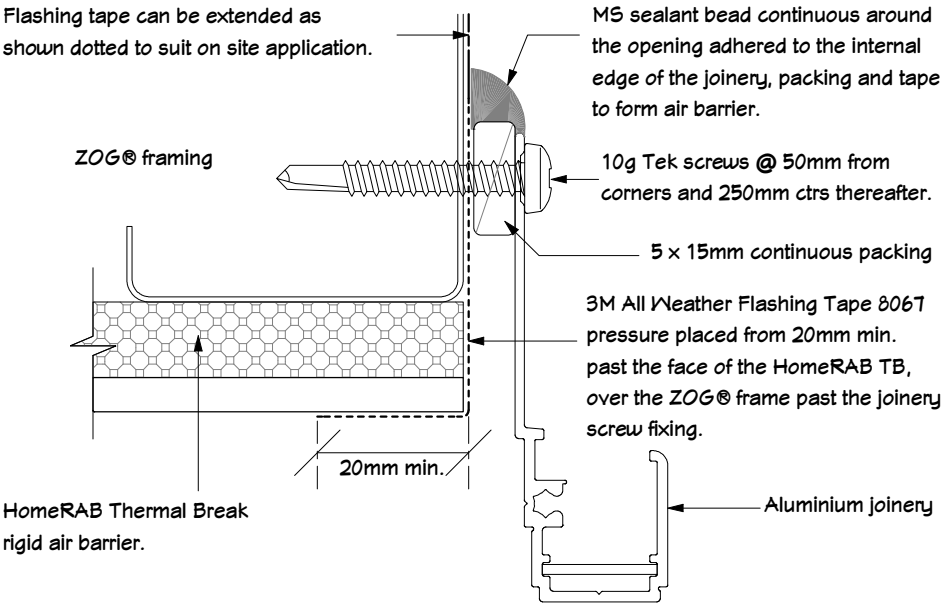
Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):

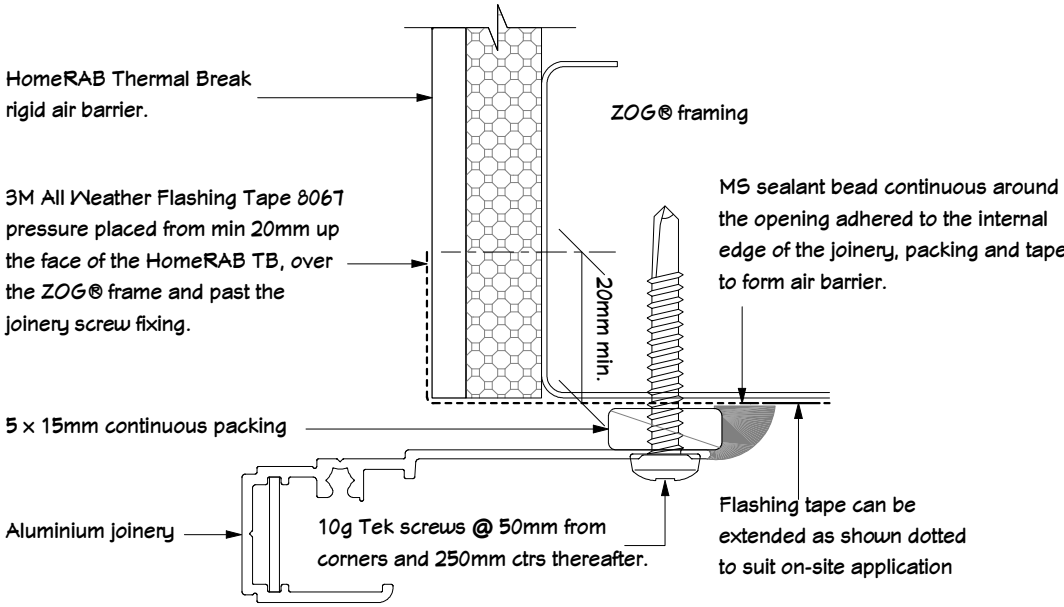
Sub-soil Classification: E
 Soil Classification REF GEOTECH
 Wind Zone: High
 Earthquake Zone: 2
 Exposure Zone: C
 Climate Zone: 3
 Rain Intensity (10%AEF): 47.6mm/hr
 Snowload: 1.0kPa

Roof Flashings - Trapezoidal

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: N.T.S.	SHEET No. 20 OF 38

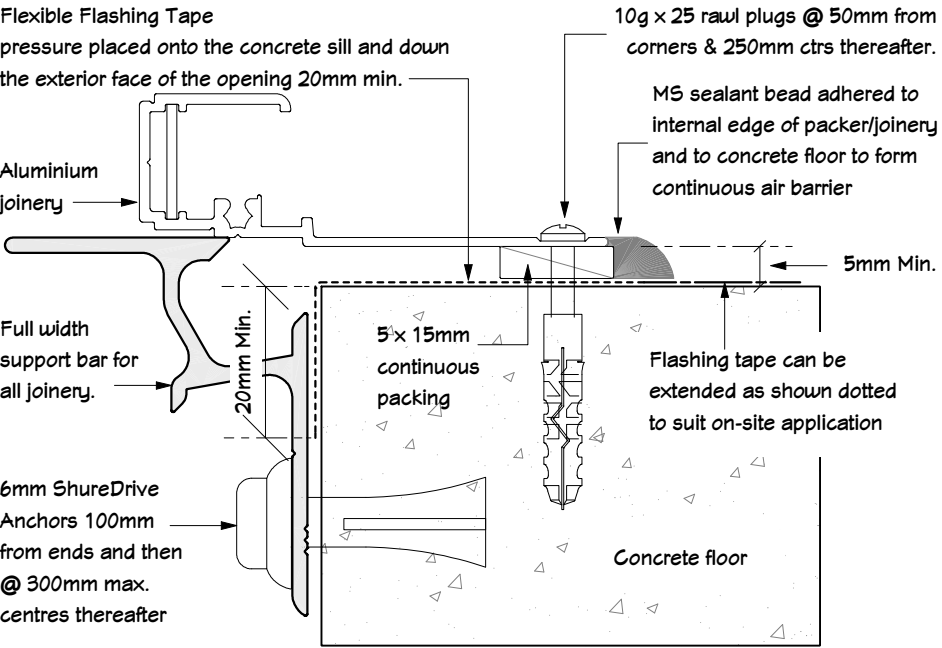


EJ 006 Aluminium Joinery Connection
 Jamb at ZOG Frame
VU/DINEX plan

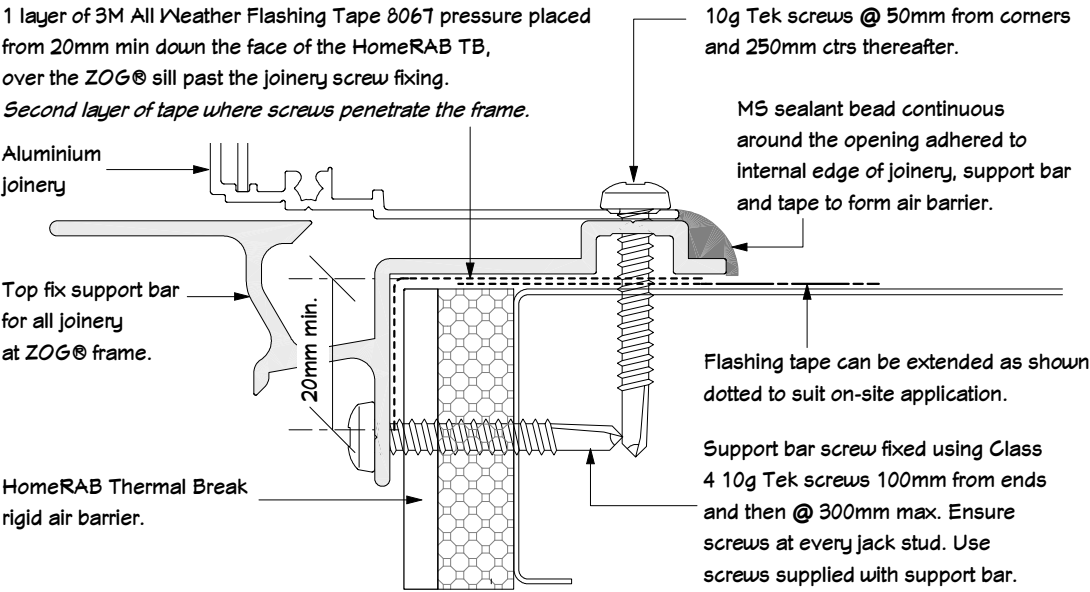


EJ 007 Aluminium Joinery Connection
 Head at ZOG Frame
VU/DINEX plan

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
 with the Building Act 2004, clause 49 and the Building
 Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk



EJ 004 Aluminium Joinery Connection
 Sill at Conc Floor
VU/DINEX plan



EJ 005 Aluminium Joinery Connection
 Sill at ZOG Frame
VU/DINEX plan

Plan Name - © GOLDEN HOMES HOLDINGS LTD



NOTES:
 • Refer to the NALCO Golden Homes Window & Exterior Door Installation Procedure manual for installation method.

CLIENT:
 Marshall Residence
 Lot 11, DP 540916
 Greengrass Crescent
 Silverstream B9, Kaiapoi,
 Canterbury

TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 1

SITE DATA (for zones upto & including):
 Sub-soil Classification: E
 Soil Classification REF GEOTECH
 Wind Zone: High
 Earthquake Zone: 2
 Exposure Zone: C
 Climate Zone: 3
 Rain Intensity (10%AEF): 47.6mm/hr
 Snowload: 1.0kPa

Exterior Joinery Details -
 Installation & Seal 1

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: N.T.S	SHEET No. 21 OF 38



GOLDEN HOMES™



CODEMARK™
CM70023 Rev1

NOTES:

- Joinery must be installed in accordance with NZ54211 and as shown in the NALCO Golden Homes Window & Exterior Door Installation Procedure manual.

CLIENT:

Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:

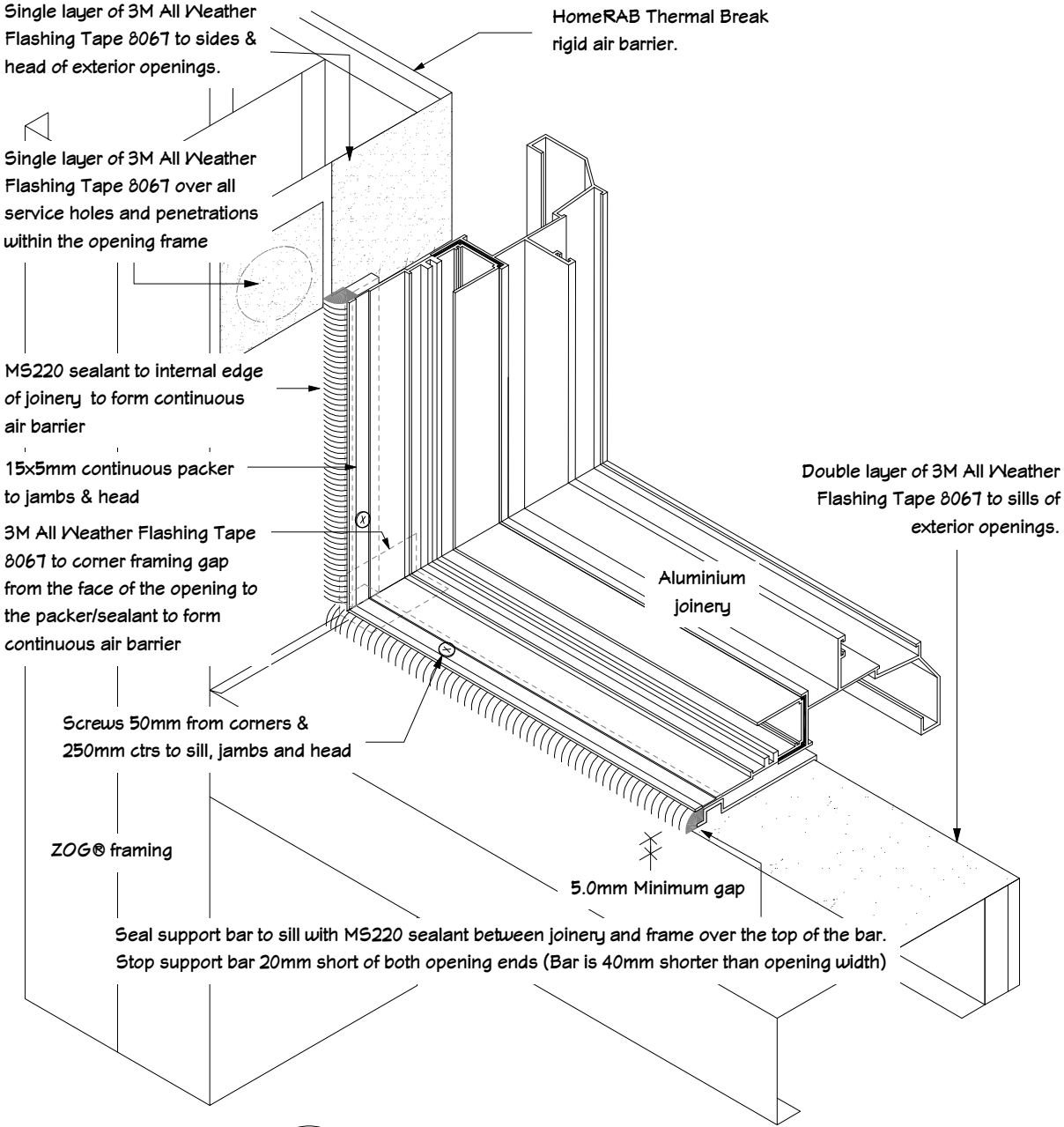
Waimakariri District Council
Residential Zone 1

SITE DATA (for zones upto & including):

Sub-soil Classification:	E
Soil Classification	REF GEOTECH
Wind Zone:	High
Earthquake Zone:	2
Exposure Zone:	C
Climate Zone:	3
Rain Intensity (10% AEP):	47.6mm/hr
Snowload:	1.0kPa

Exterior Joinery Details - Installation & Seal 2

JOB No: 47723	SALES:	Aaron
LBP: C. Neame 101178		
DRAWN: Katherine	DATE:	27/08/2021
SCALE: N.T.S	SHEET No.	22 OF 38



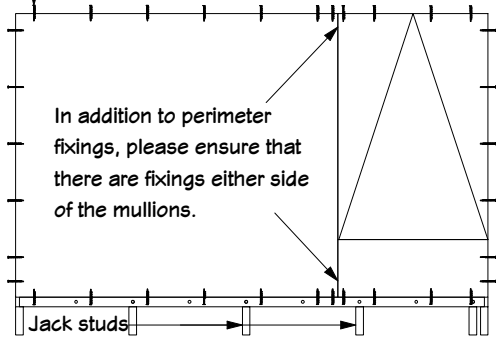
EJ
014

Aluminium Joinery Opening
3D of Corner Fixing & Sealant

W/D/DINEX.plan

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance with the Building Act 2004, clause 49 and the Building Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk

Use 8 x 25 TEK screws supplied by NALCO at 50mm from the corners & 250mm ctrs thereafter around the perimeter of the joinery



Support bar on all windows and doors.

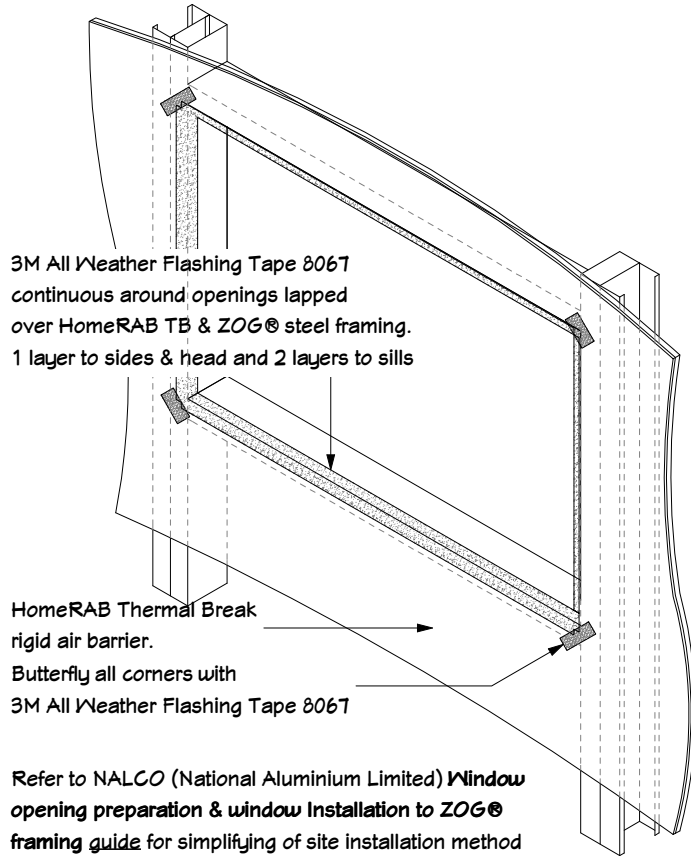
Support bar supports are to be fixed at 300mm ctrs using 10 x 25mm 24TPI Class 4 screws supplied by NALCO. Ensure one screw is fixed through support bar into every jack studs.

Stop support Bar 20mm short of each opening jamb (40mm shorter than opening width)

EJ
016

Aluminium Joinery
Fixing to ZOG Frame

W/D/DINEX.plan



EJ
013

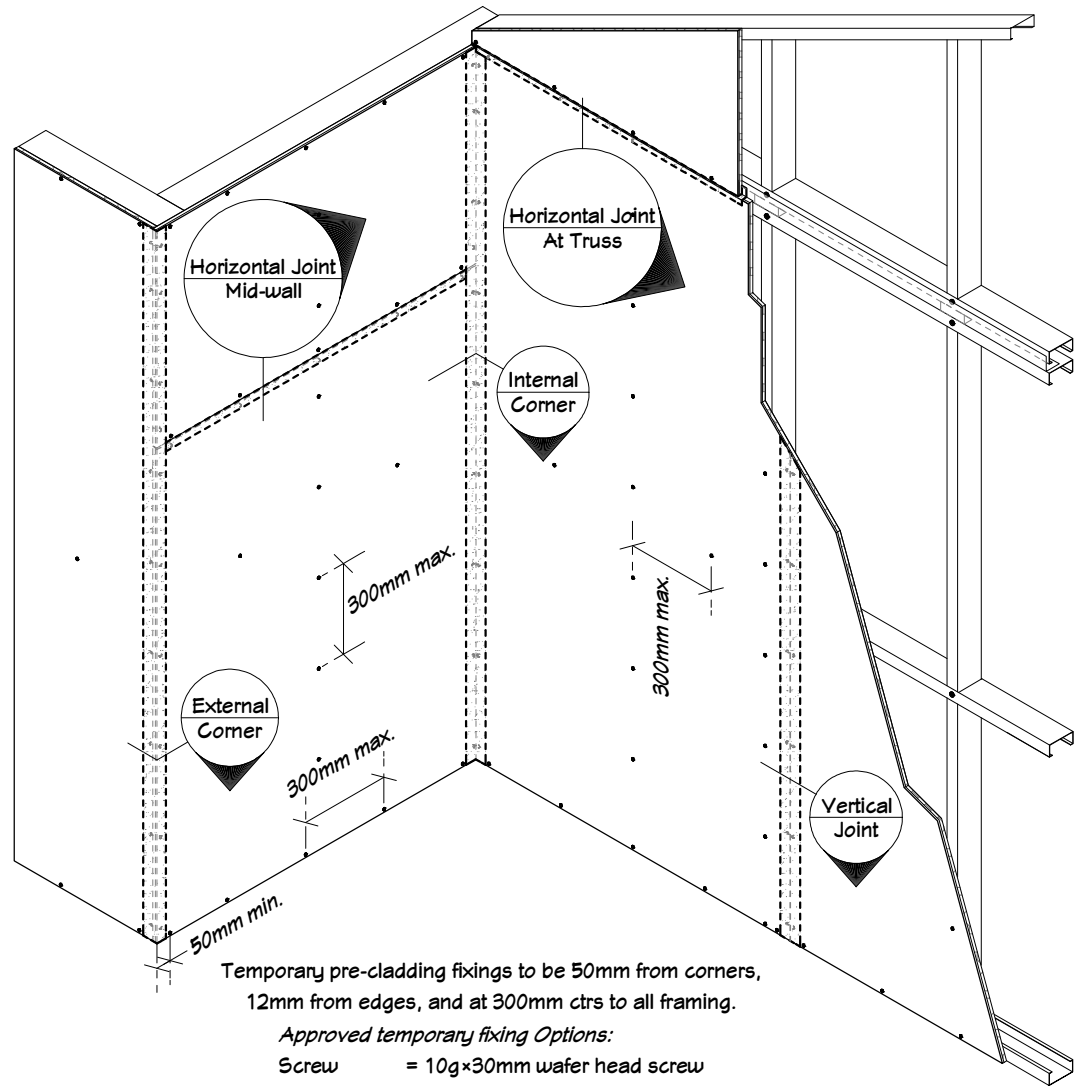
Aluminium Joinery Opening
3D of Flashing Tape

W/D/DINEX.plan

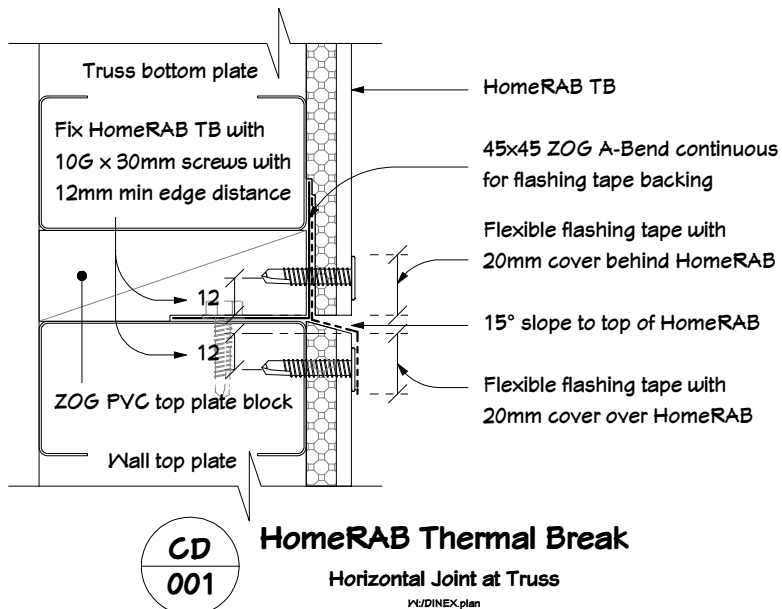
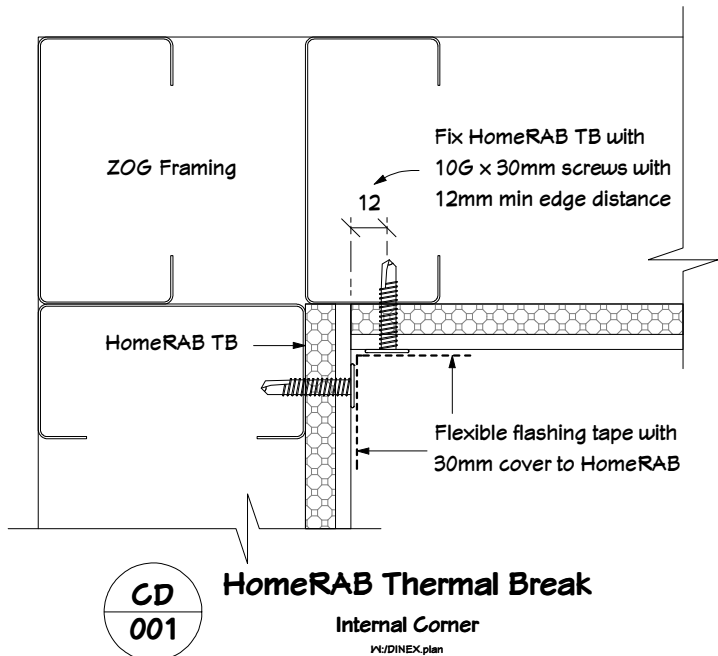
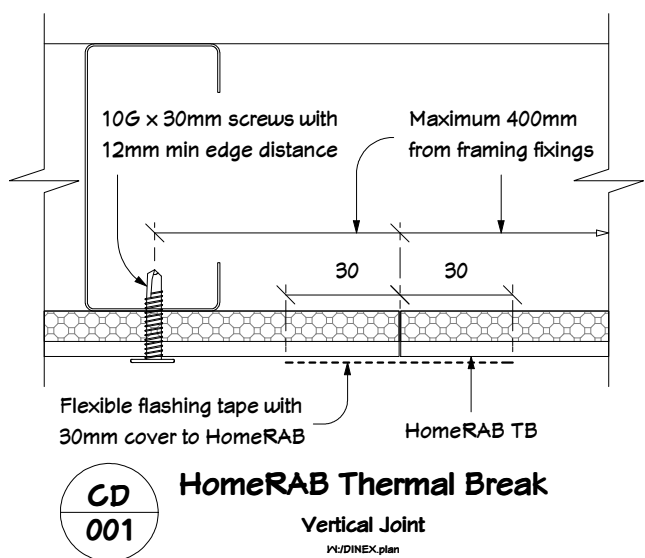
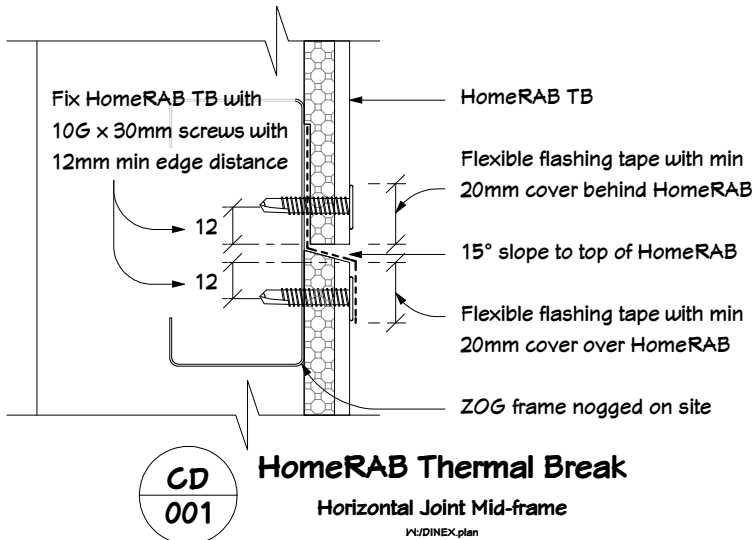
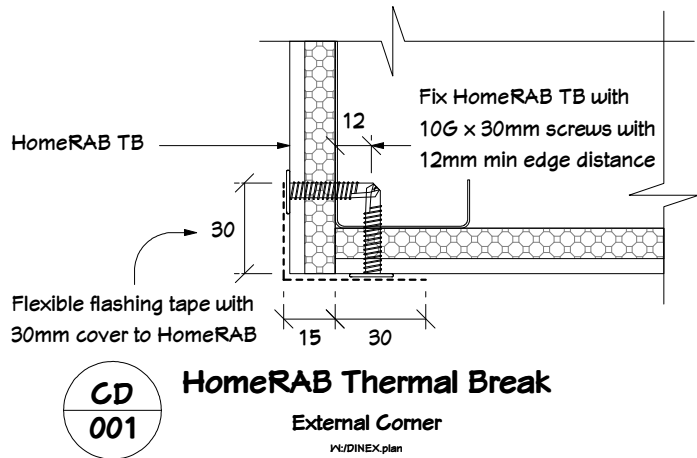


- NOTES:
- Once HomeRAB TB and exterior joinery has been installed in accordance these plans and specifications, the system will meet a full 90 day rigid air barrier compliance.
 - This system will act as a cladding system for this building 90 days.

Plan Name - © GOLDEN HOMES HOLDINGS LTD



CD 001
HomeRAB Thermal Break
 Fixing Layout
VU/DINEX.plan



CLIENT:

Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):

Sub-soil Classification:	E
Soil Classification	REF GEOTECH
Wind Zone:	High
Earthquake Zone:	2
Exposure Zone:	C
Climate Zone:	3
Rain Intensity (10%AEF):	47.6mm/hr
Snowload:	1.0kPa

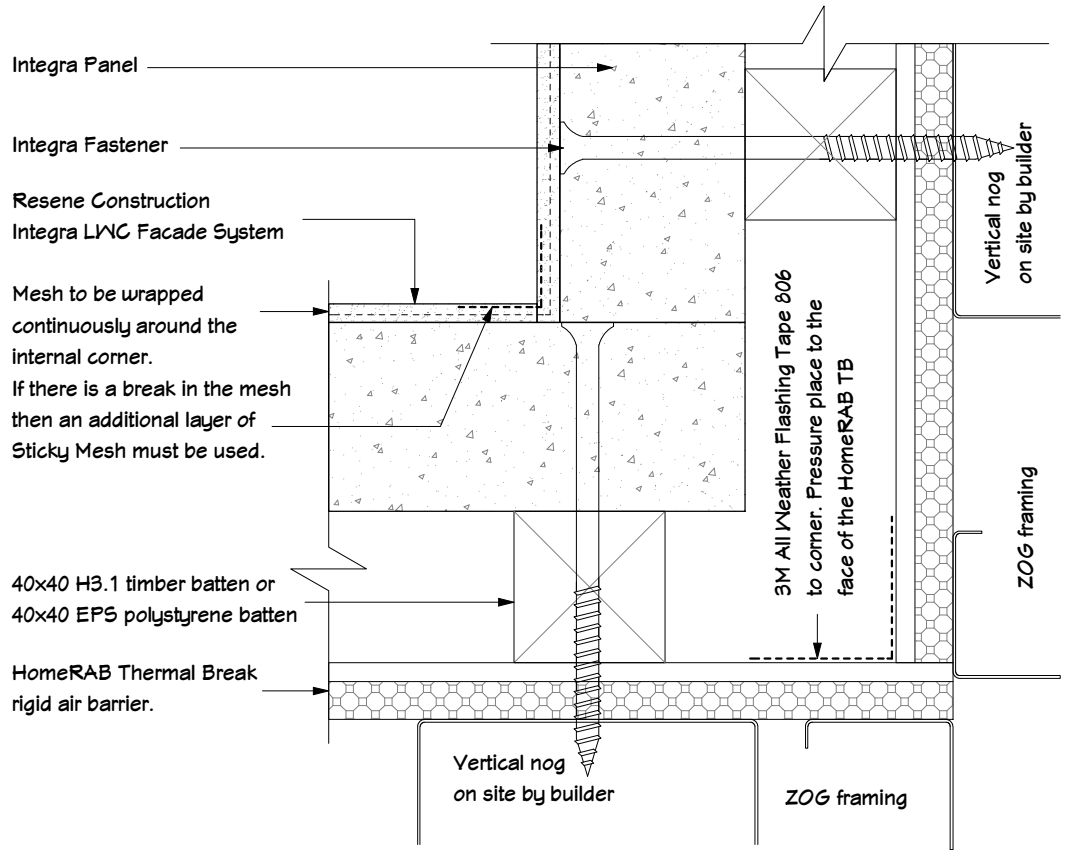
HomeRAB TB Fixing Layout			
JOB No:	97723	SALES:	Aaron
LBP:	C. Neame	101178	
DRAWN:	Katherine	DATE:	27/08/2021
SCALE:	N.T.S	SHEET No.	23 OF 38

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
 with the Building Act 2004, clause 49 and the Building
 Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk

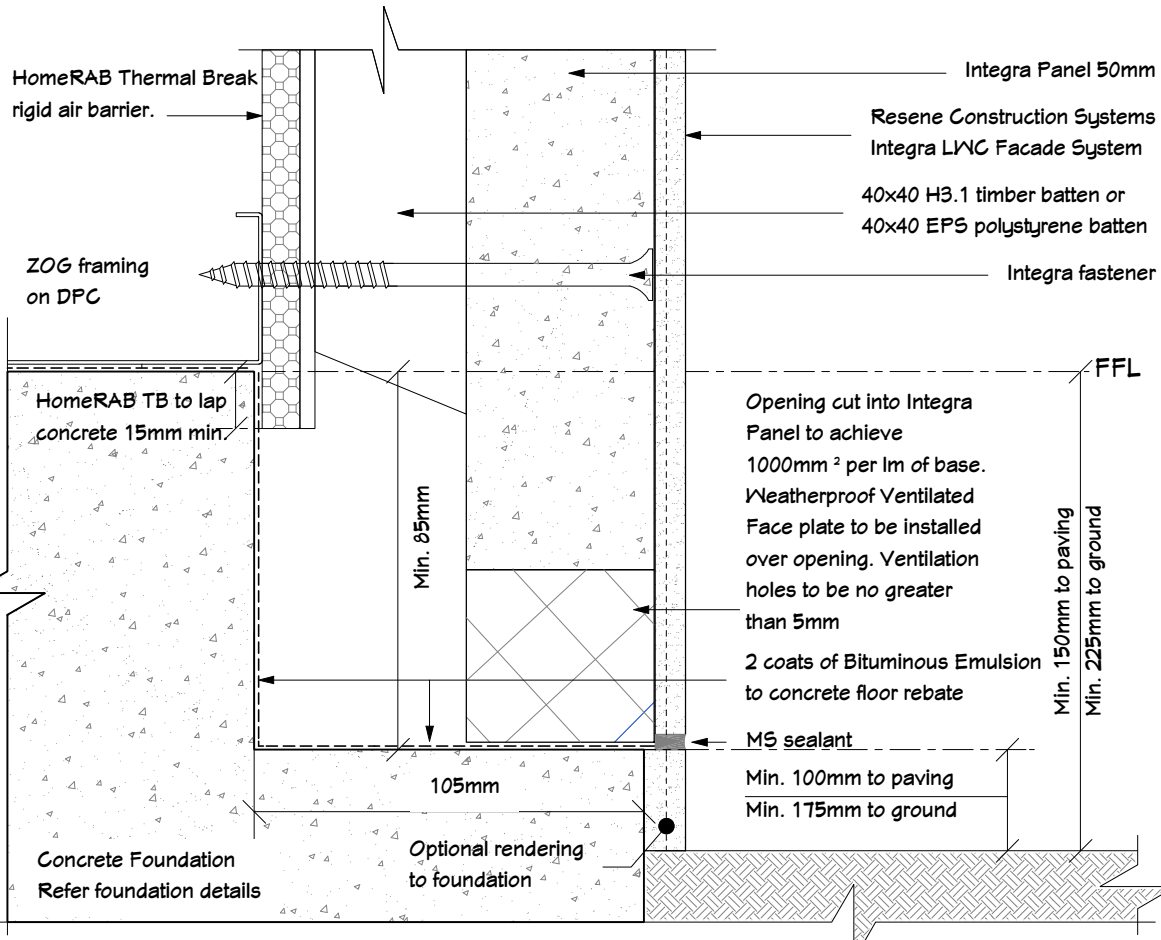


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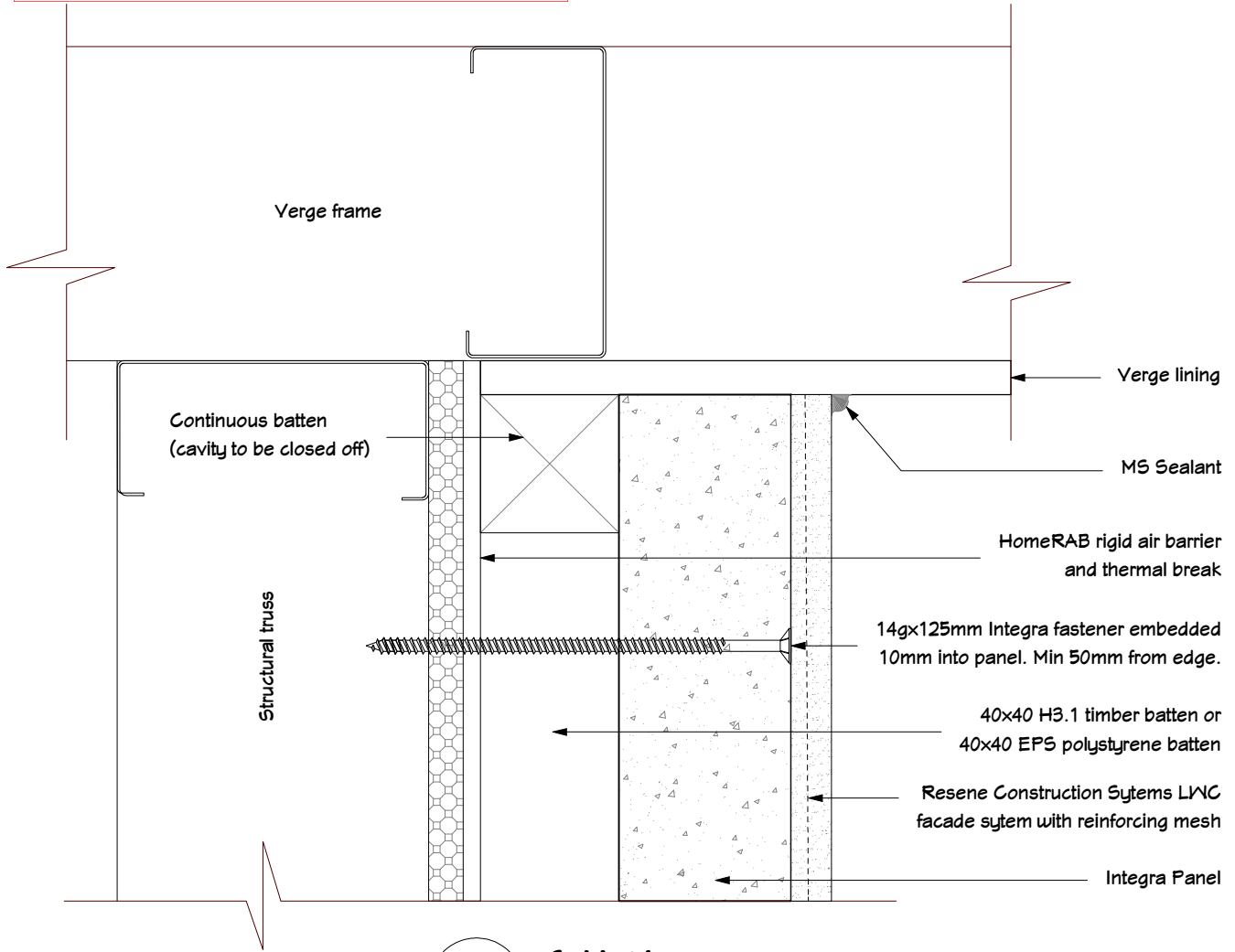
Plan Name - © GOLDEN HOMES HOLDINGS LTD



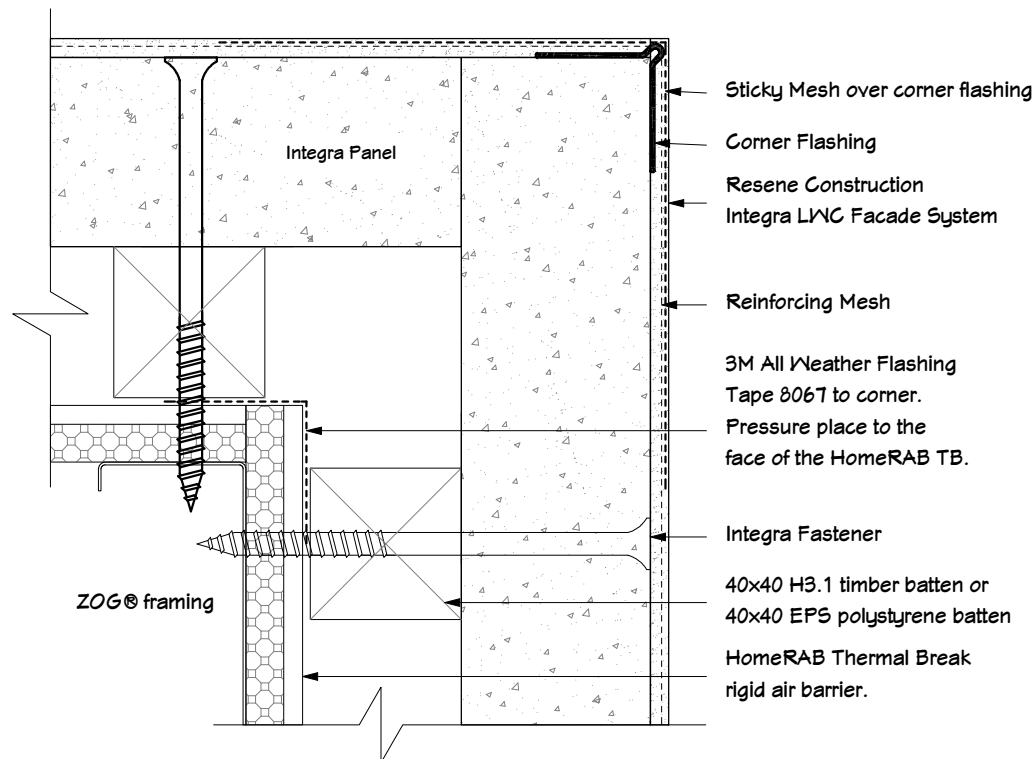
CD
005
Internal Corner
Resene Integra Panel
W/DINEX plan



CD
004
Base at Concrete Floor
Resene Integra Panel
W/DINEX plan



CD
020
Gable Verge
Resene Integra Panel
W/DINEX plan



CD
007
External Corner
Resene Integra Panel
W/DINEX plan

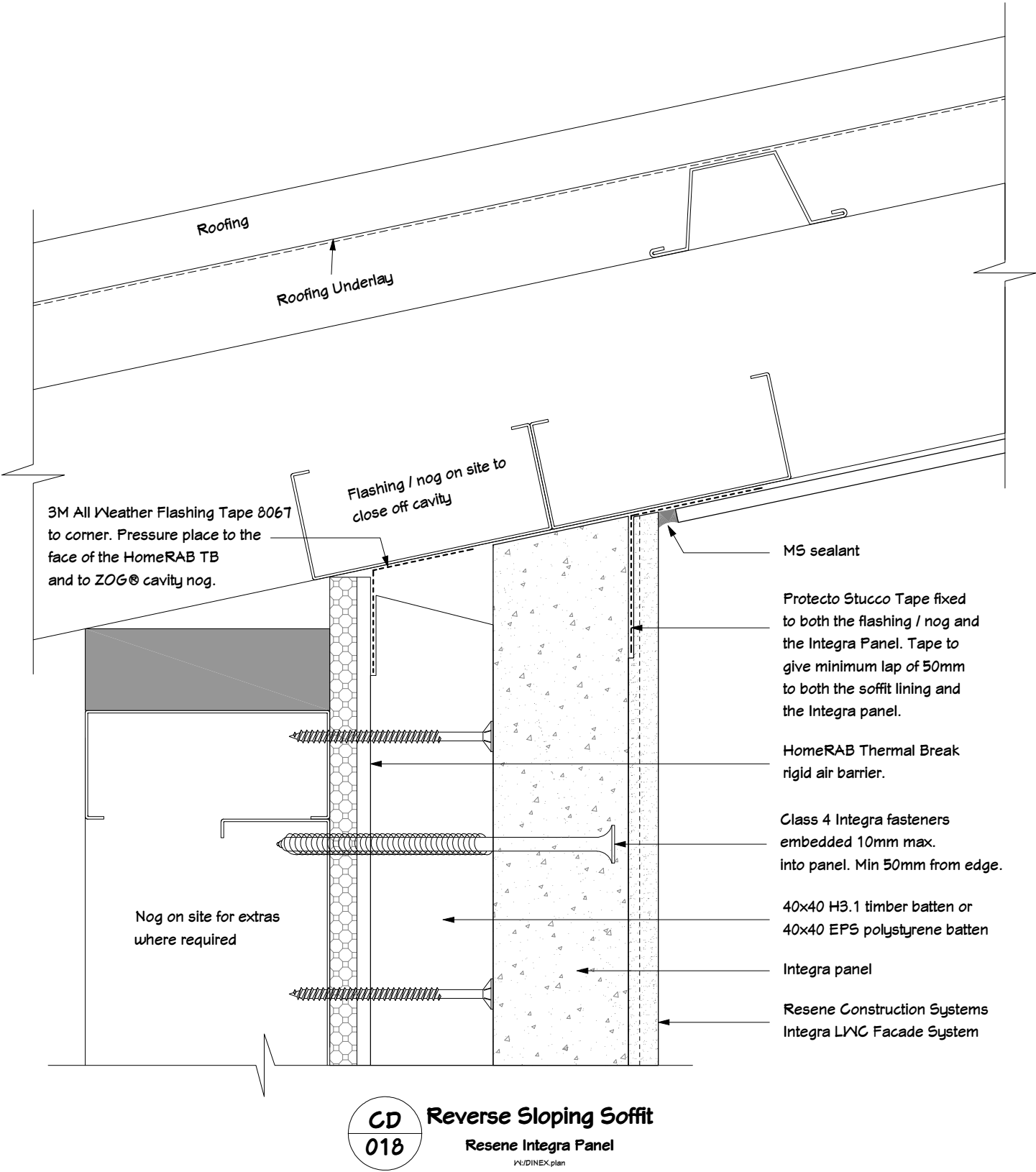
CLIENT:
 Marshall Residence
 Lot 11, DP 540916
 Greengrass Crescent
 Silverstream B9, Kaiapoi,
 Canterbury

TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 1

SITE DATA (for zones upto & including):
 Sub-soil Classification: E
 Soil Classification REF GEOTECH
 Wind Zone: High
 Earthquake Zone: 2
 Exposure Zone: C
 Climate Zone: 3
 Rain Intensity (10%AEF): 47.6mm/hr
 Snowload: 1.0kPa

Cladding Details - Resene
 Integra Panel 1

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: N.T.S	SHEET No. 24 OF 38



WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance with the Building Act 2004, clause 49 and the Building Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk

Plan Name - © GOLDEN HOMES HOLDINGS LTD



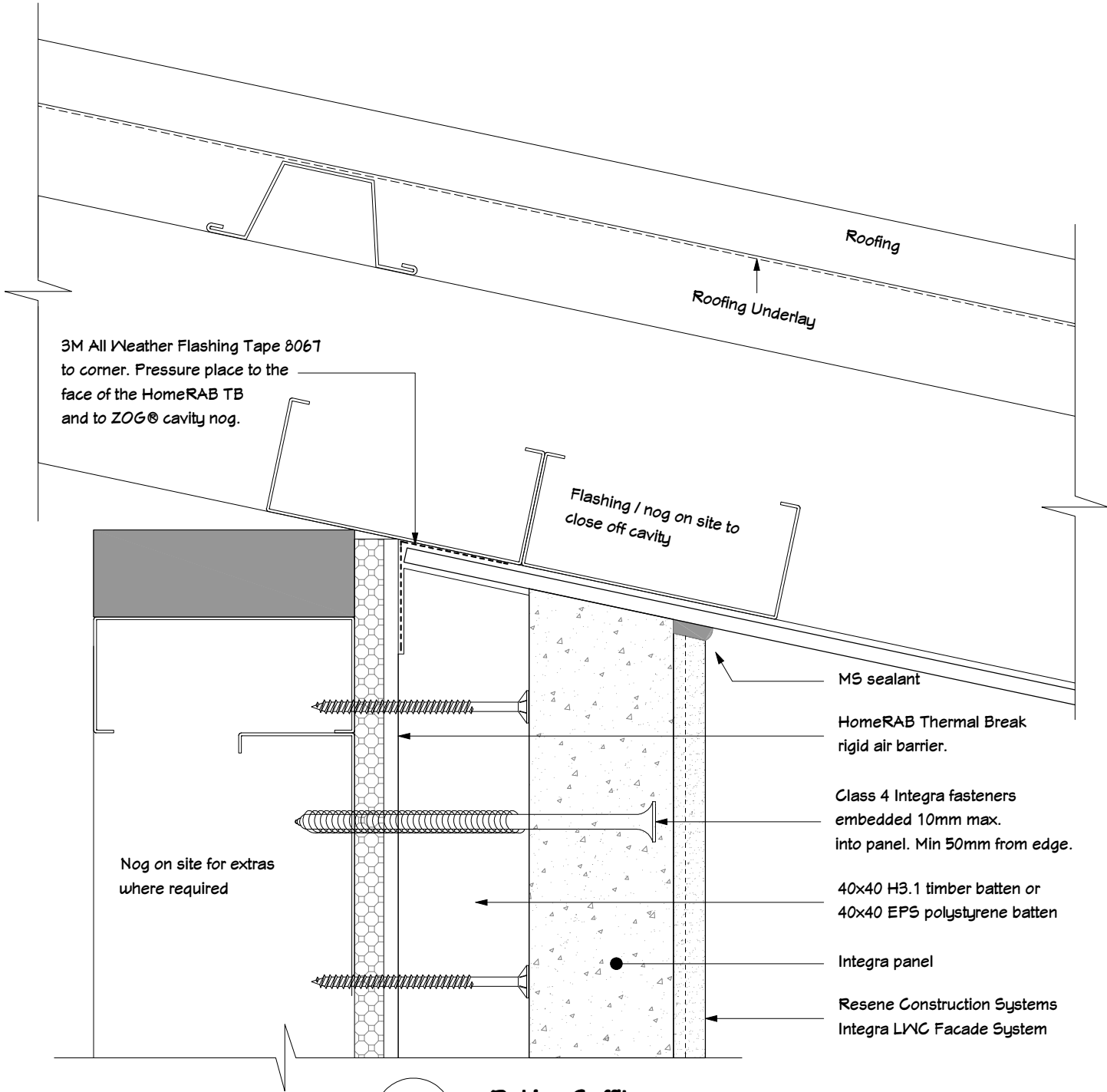
NOTES:

CLIENT: **Marshall Residence**
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):
 Sub-soil Classification: E
 Soil Classification REF GEOTECH
 Wind Zone: High
 Earthquake Zone: 2
 Exposure Zone: C
 Climate Zone: 3
 Rain Intensity (10%AEF): 47.6mm/hr
 Snowload: 1.0kPa

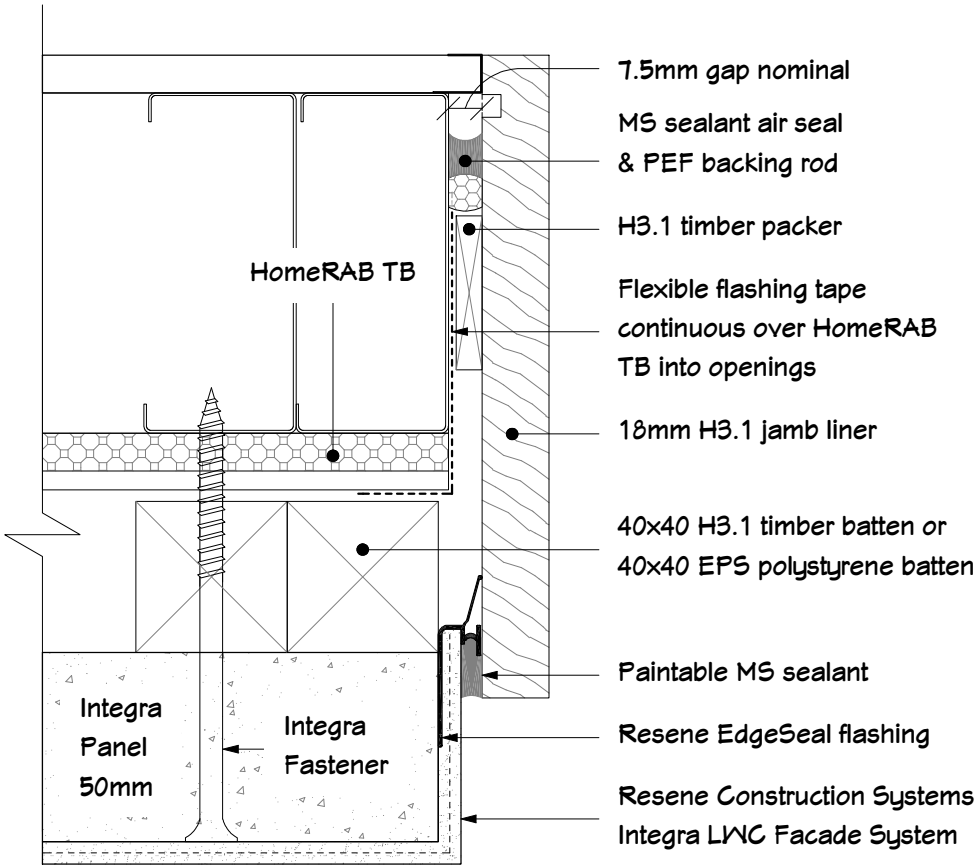
Cladding Details - Resene Integra Panel 2		
JOB No: 97723	SALES:	Aaron
LBP: C.Nearne 101178		
DRAWN: Katherine	DATE:	27/08/2021
SCALE: N.T.S	SHEET No.	25 OF 38



CD
019

Raking Soffit
Resene Integra Panel
V4/DINEX plan

WAIMAKARIRI DISTRICT COUNCIL
Plans and specifications APPROVED in accordance with the Building Act 2004, clause 49 and the Building Regulations 1992, Clause 3
BC211794 20/01/2022 Chrisk



CD
095

Garage Door Jamb
Resene Integra Panel (40mm Cavity)
V4/DINEX plan

Plan Name - © GOLDEN HOMES HOLDINGS LTD

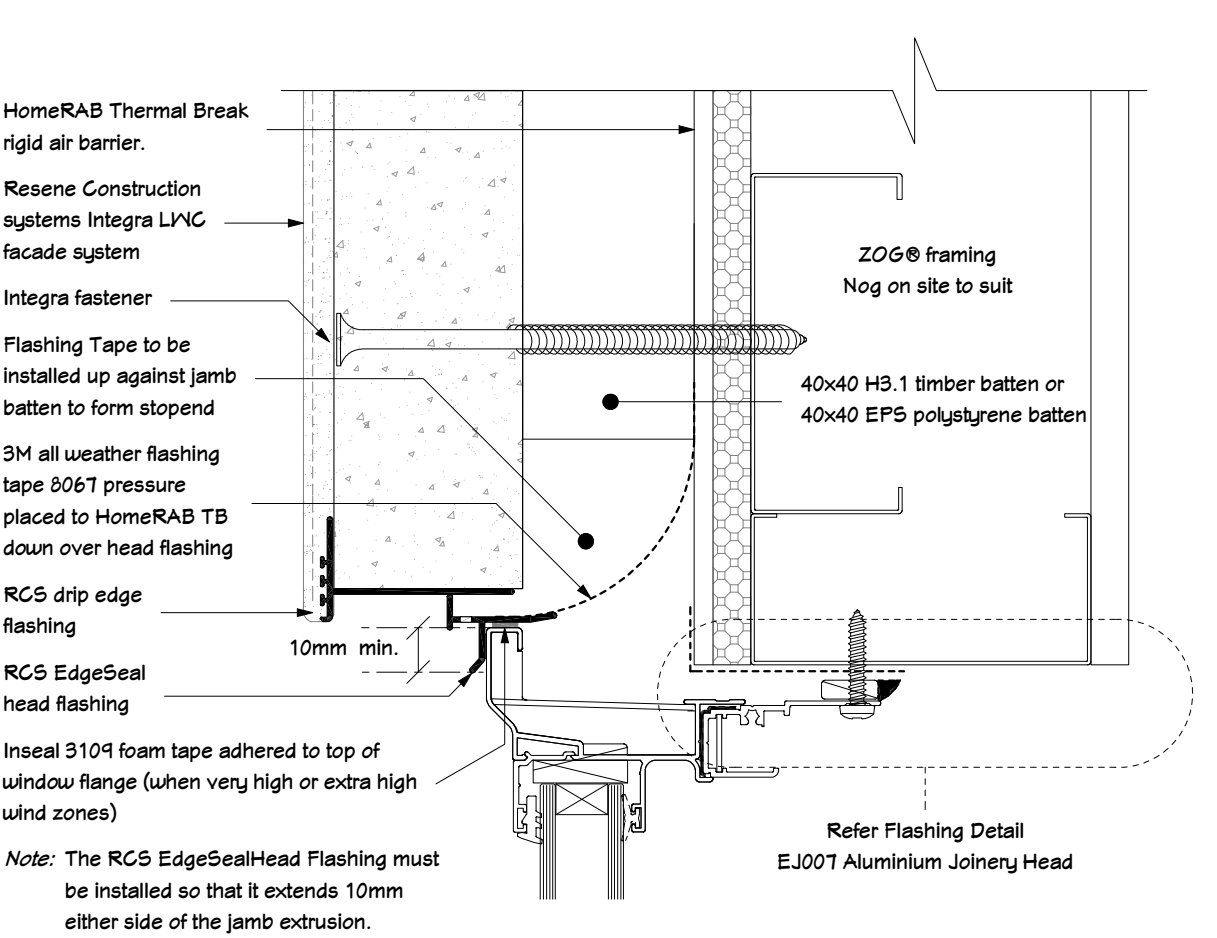


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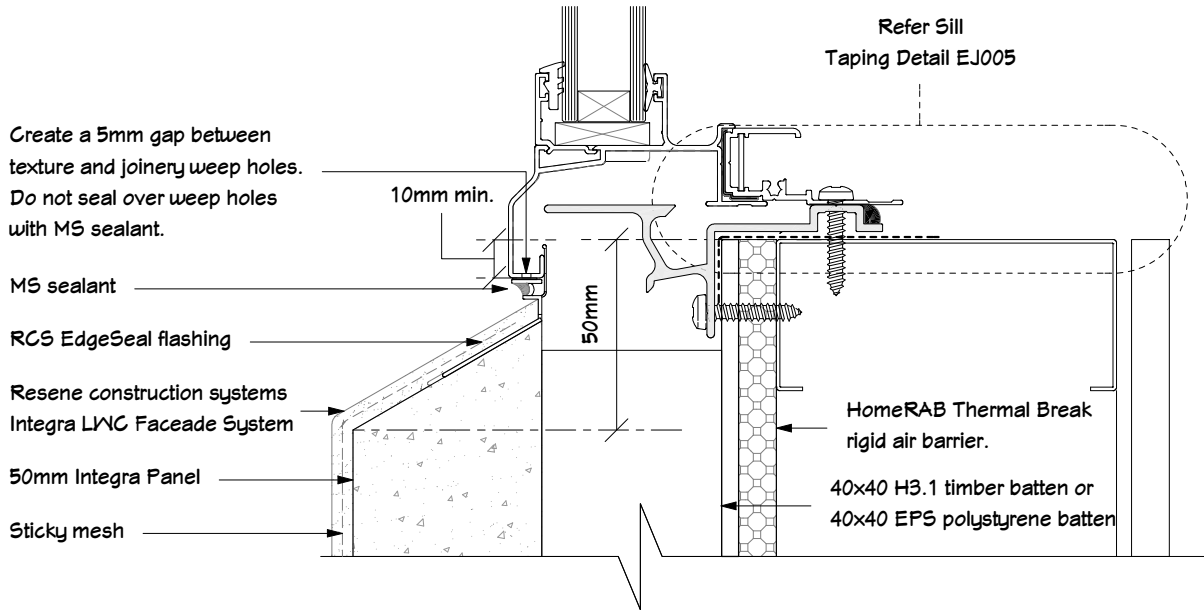
CLIENT:
Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury
 TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 1

SITE DATA (for zones upto & including):
 Sub-soil Classification: E
 Soil Classification REF GEOTECH
 Wind Zone: High
 Earthquake Zone: 2
 Exposure Zone: C
 Climate Zone: 3
 Rain Intensity (10% AEP): 47.6mm/hr
 Snowload: 1.0kPa

Cladding Details - Resene Integra Panel 3		
JOB No: 97723	SALES:	Aaron
LBP: C. Neame 101178		
DRAWN: Katherine	DATE:	27/08/2021
SCALE: N.T.S	SHEET No.	26 OF 38

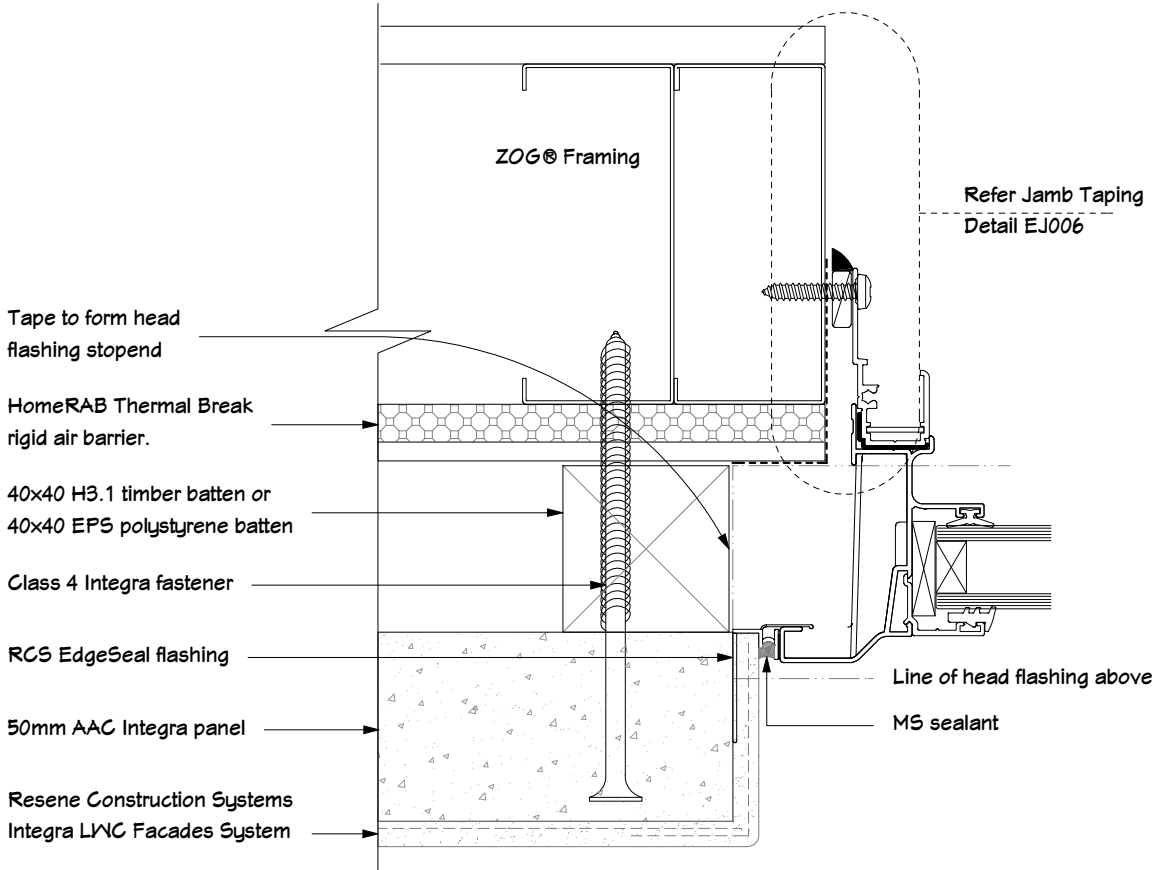


CD 110 Aluminium Joinery Head
 Integra Panel
 W/DINEX plan

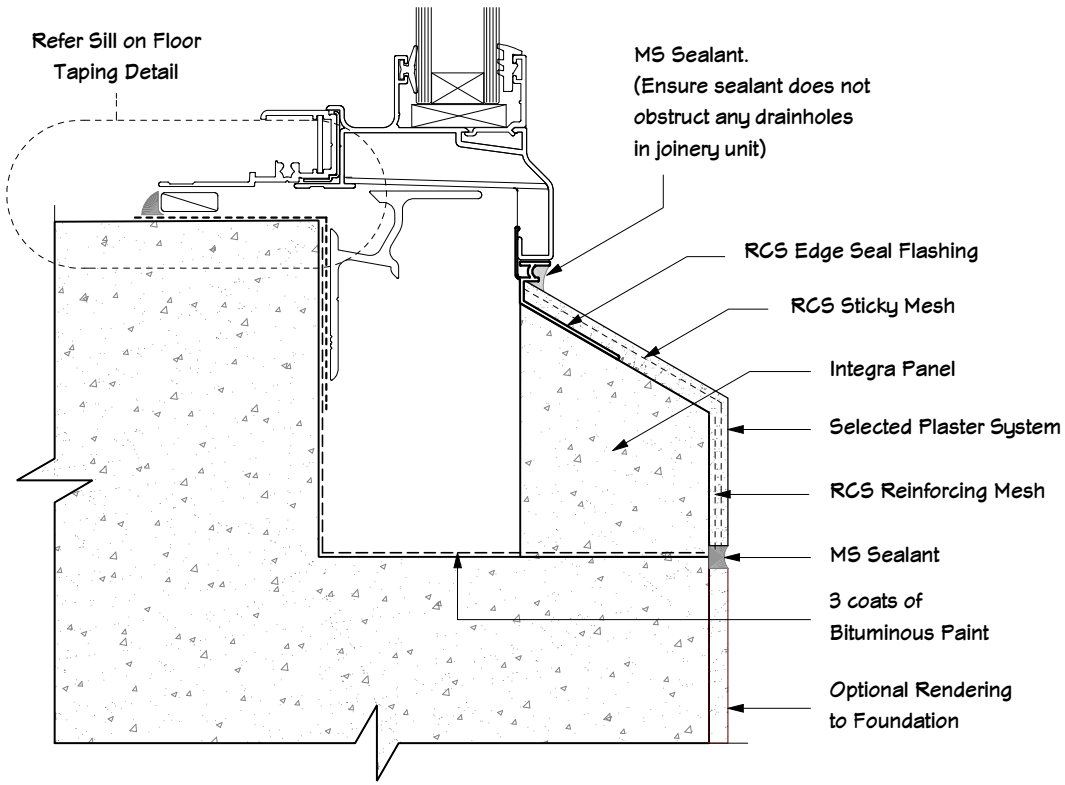


CD 108 Aluminium Joinery Sill at Frame
 Integra Panel
 W/DINEX plan

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance with the Building Act 2004, clause 49 and the Building Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk



CD 109 Aluminium Joinery Jamb
 Integra Panel (40mm Cavity)
 W/DINEX plan



CD 107 Aluminium Joinery Sill at Conc Floor
 Resene Integra
 W/DINEX plan

GOLDEN HOMES™

CODEMARK™
CM70023 Rev1

Plan Name - © GOLDEN HOMES HOLDINGS LTD

NOTES:

CLIENT:

Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:

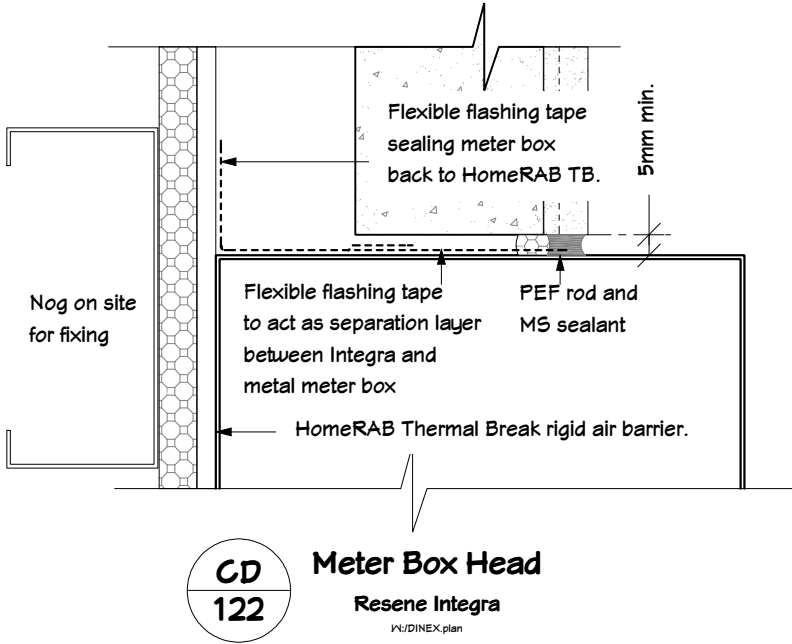
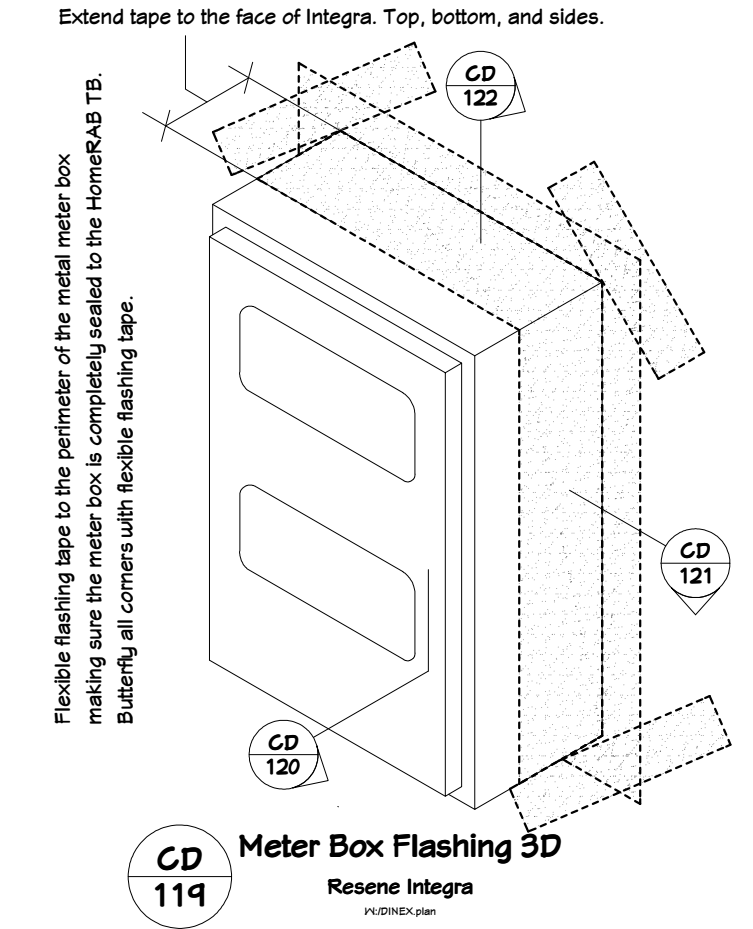
Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):

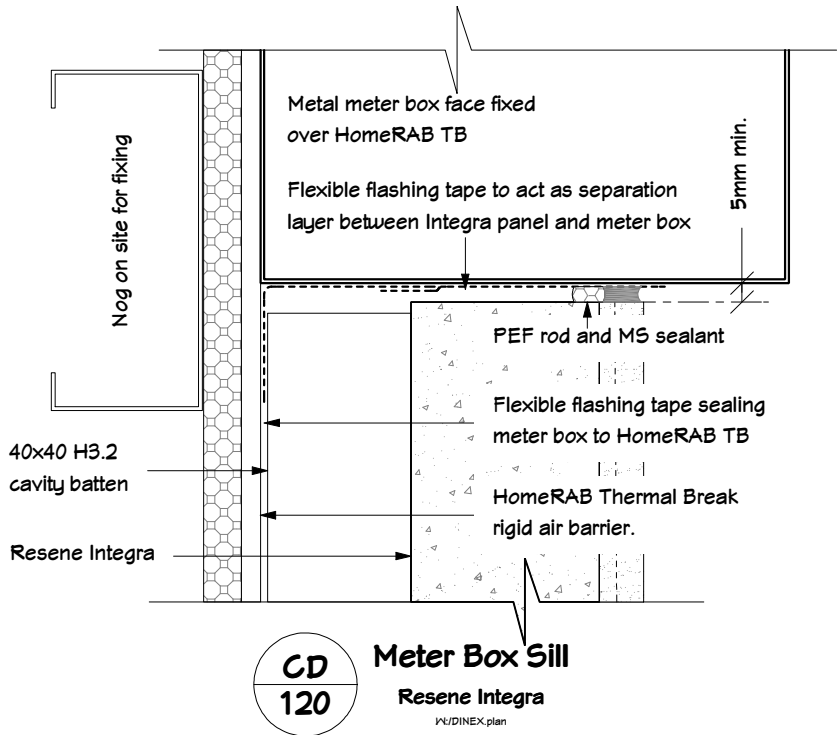
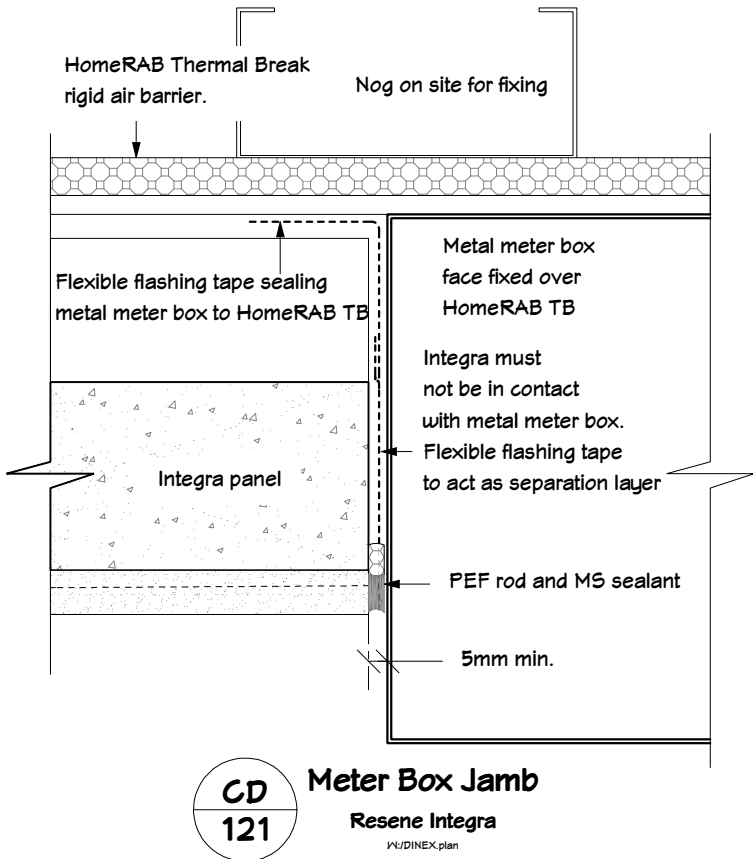
Sub-soil Classification:	E
Soil Classification	REF GEOTECH
Wind Zone:	High
Earthquake Zone:	2
Exposure Zone:	C
Climate Zone:	3
Rain Intensity (10%AEF):	47.6mm/hr
Snowload:	1.0kPa

Cladding Details - Resene Integra Panel 4

JOB No: 97723	SALES:	Aaron
LBP: C. Neame 101178		
DRAWN: Katherine	DATE:	27/08/2021
SCALE: N.T.S	SHEET No.	27 OF 38



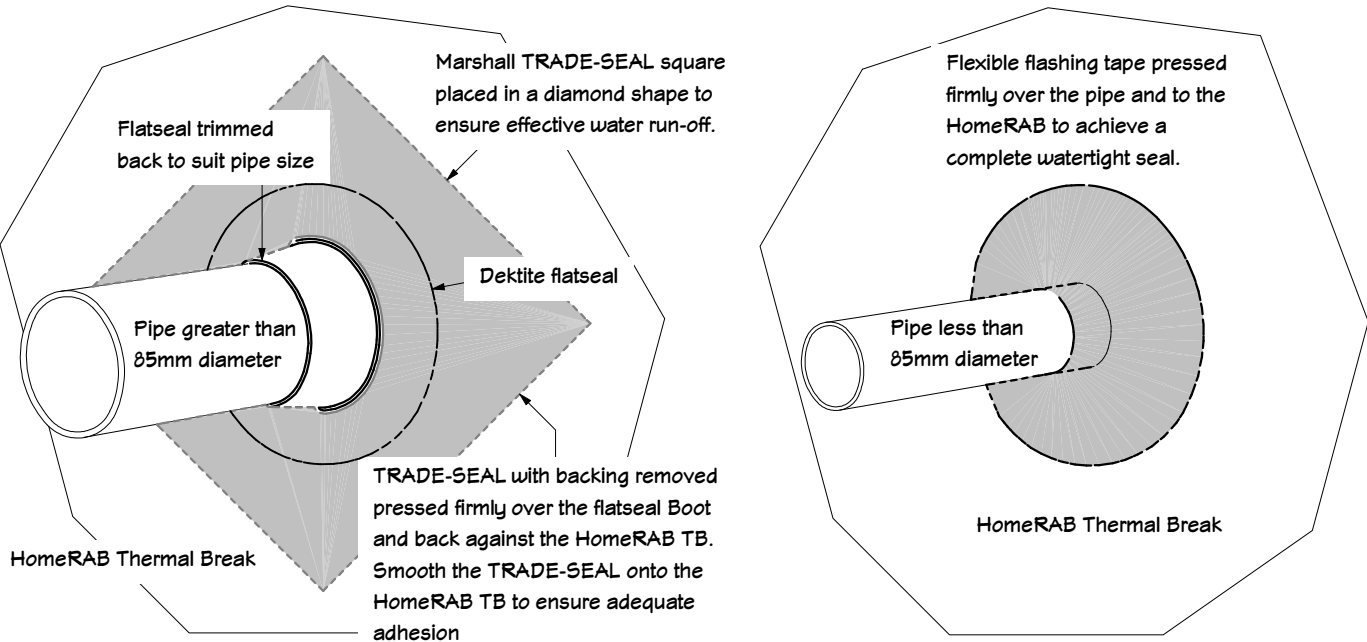
WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
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 Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk



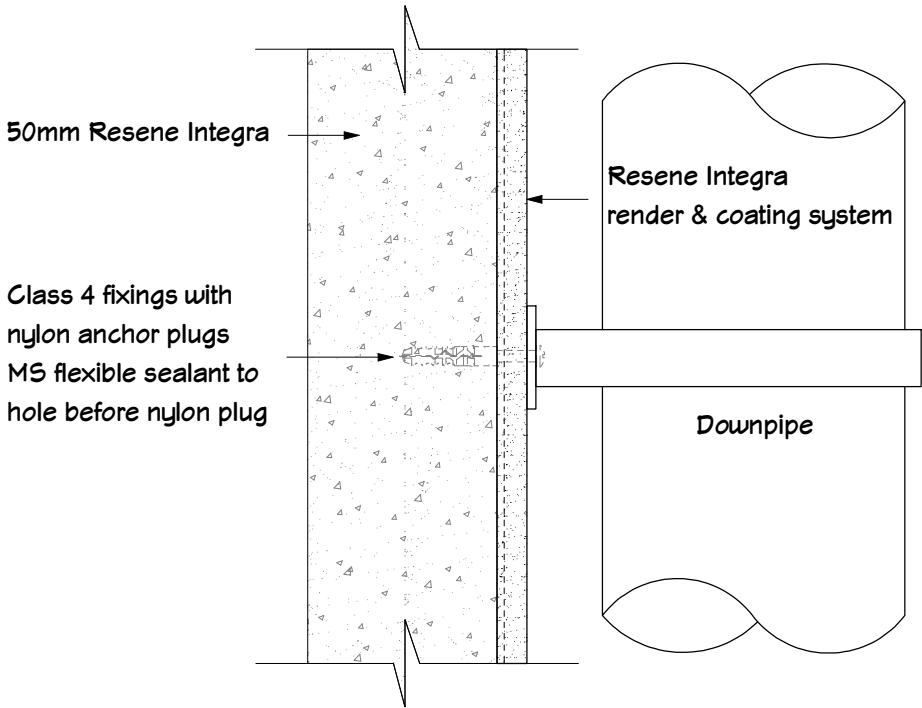
Plan Name - © GOLDEN HOMES HOLDINGS LTD



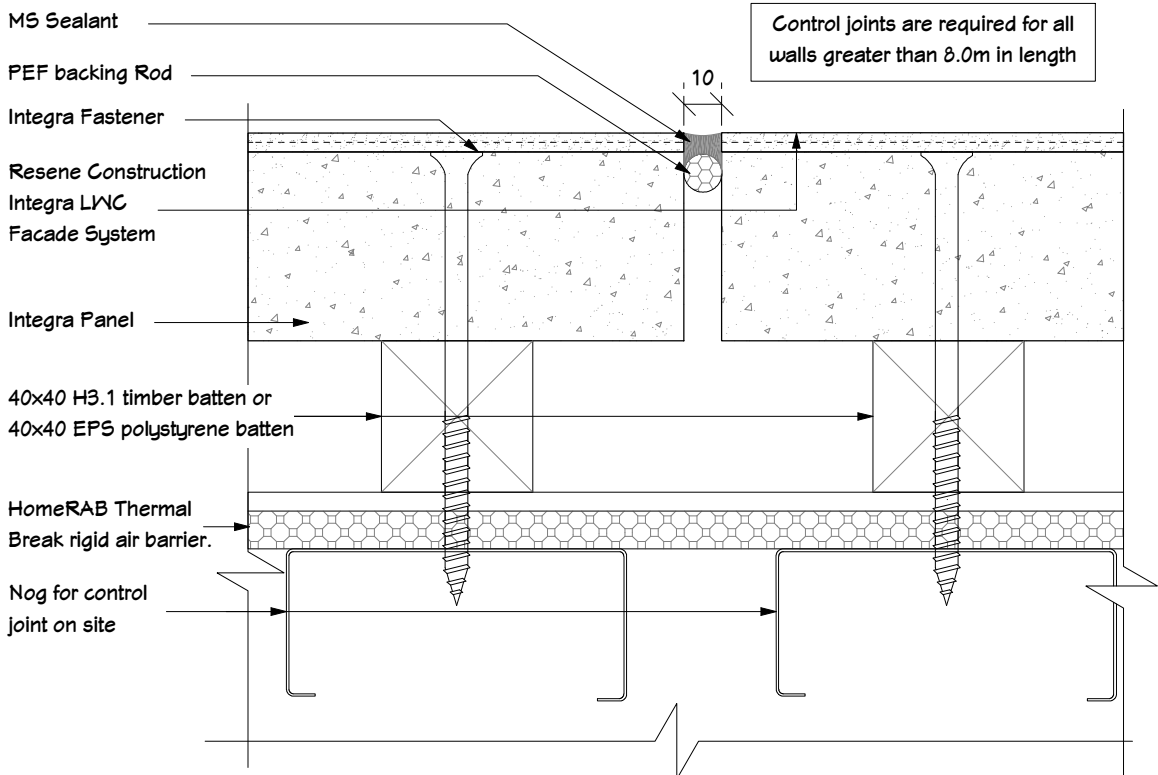
NOTES:	
CLIENT: Marshall Residence Lot 11, DP 540916 Greengrass Crescent Silverstream B9, Kaiapoi, Canterbury	
TERRITORIAL AUTHORITY: Waimakariri District Council Residential Zone 7	
SITE DATA (for zones upto & including): Sub-soil Classification: E Soil Classification REF GEOTECH Wind Zone: High Earthquake Zone: 2 Exposure Zone: C Climate Zone: 3 Rain Intensity (10%AEF): 47.6mm/hr Snowload: 1.0kPa	
Cladding Details - Resene Integra Panel 5	
JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: N.T.S	SHEET No. 28 OF 38



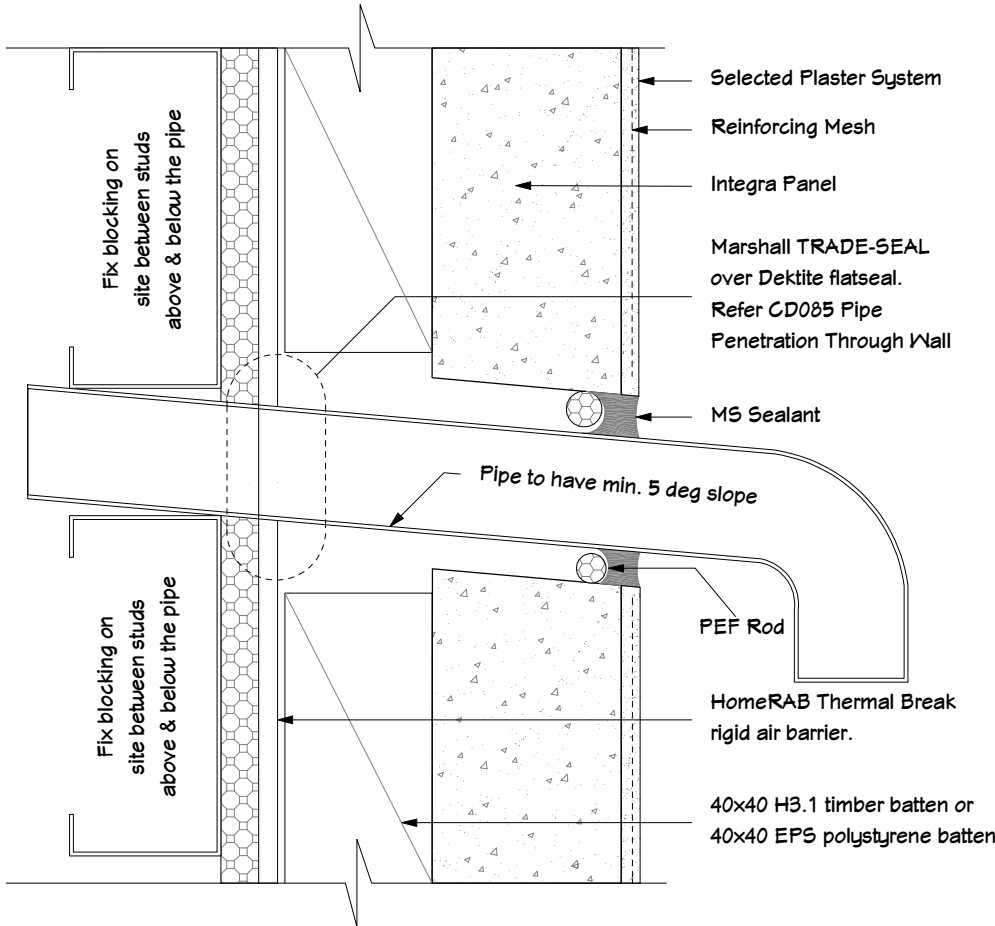
CD 085
Pipe Penetration
 Through Wall
V4/DINEX plan



CD 083
Downpipe Fixing
Resene Integra
V4/DINEX plan



CD 070
Vertical Control Joint
Resene Integra Panel
V4/DINEX plan



CD 085
Pipe Penetration
Resene Integra Panel
V4/DINEX plan

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
 with the Building Act 2004, clause 49 and the Building
 Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk



NOTES:

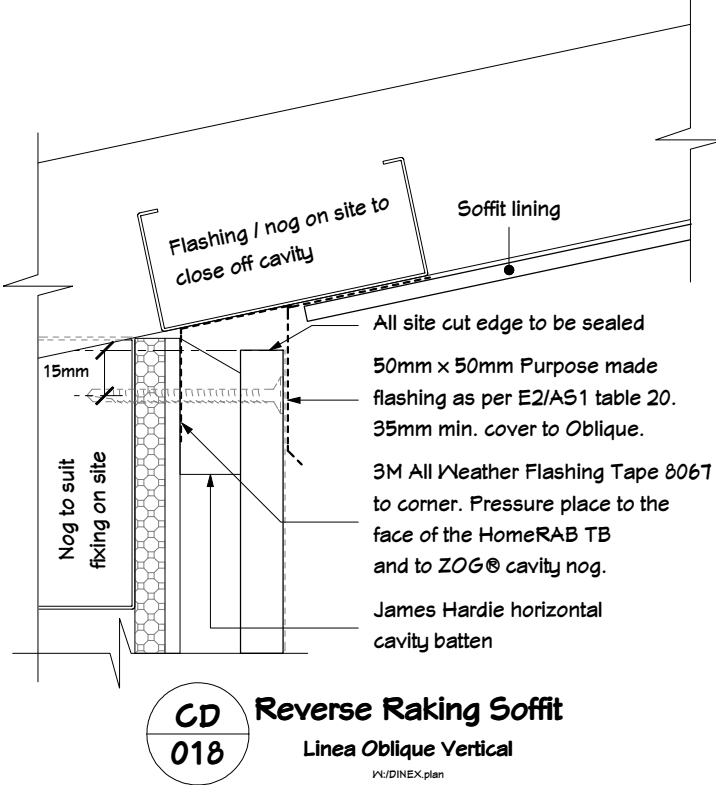
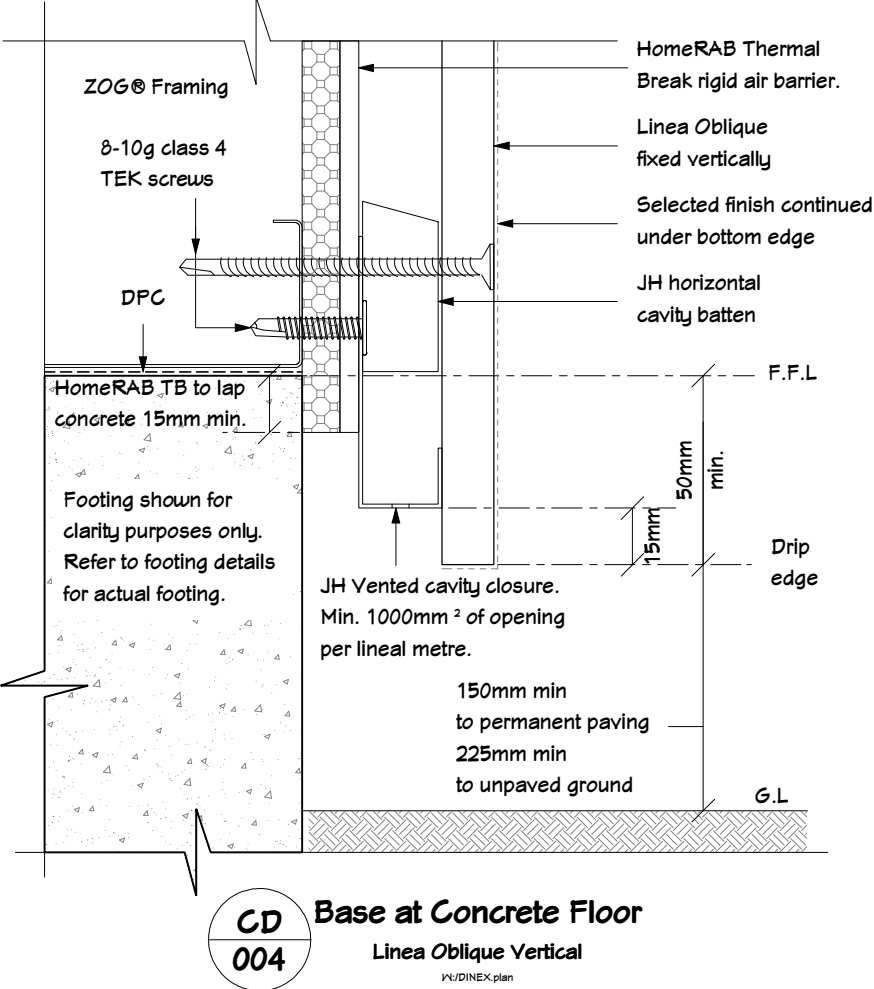
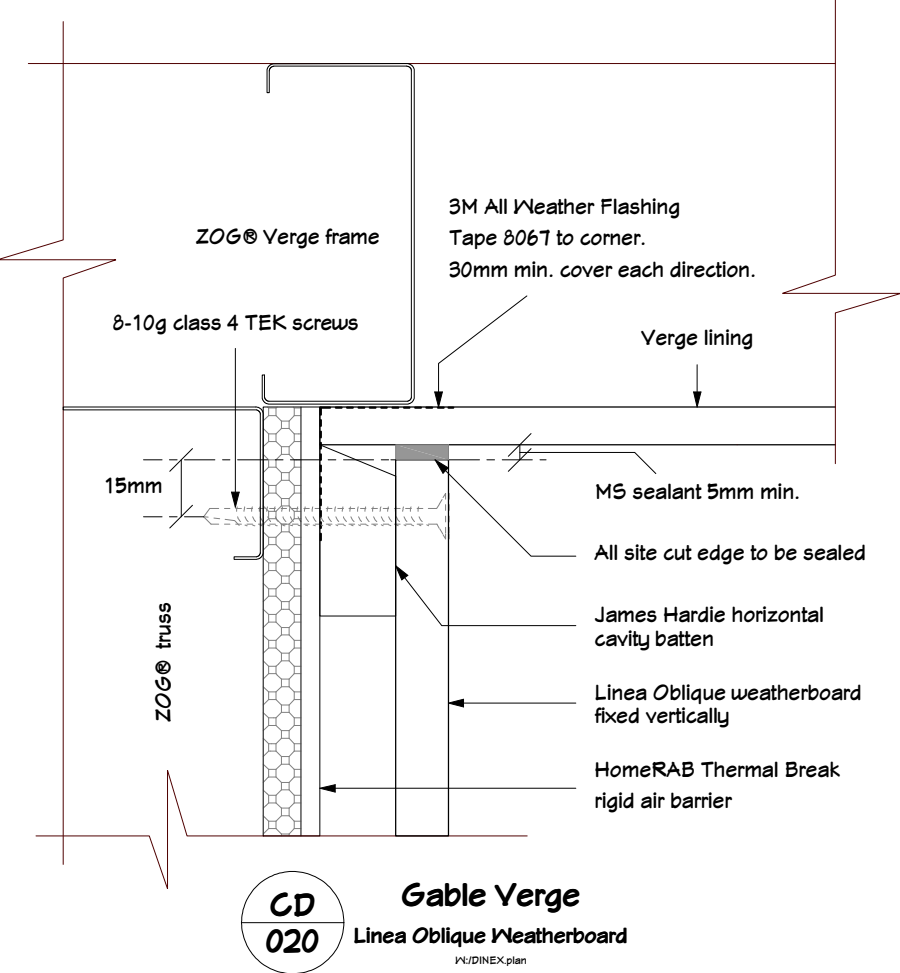
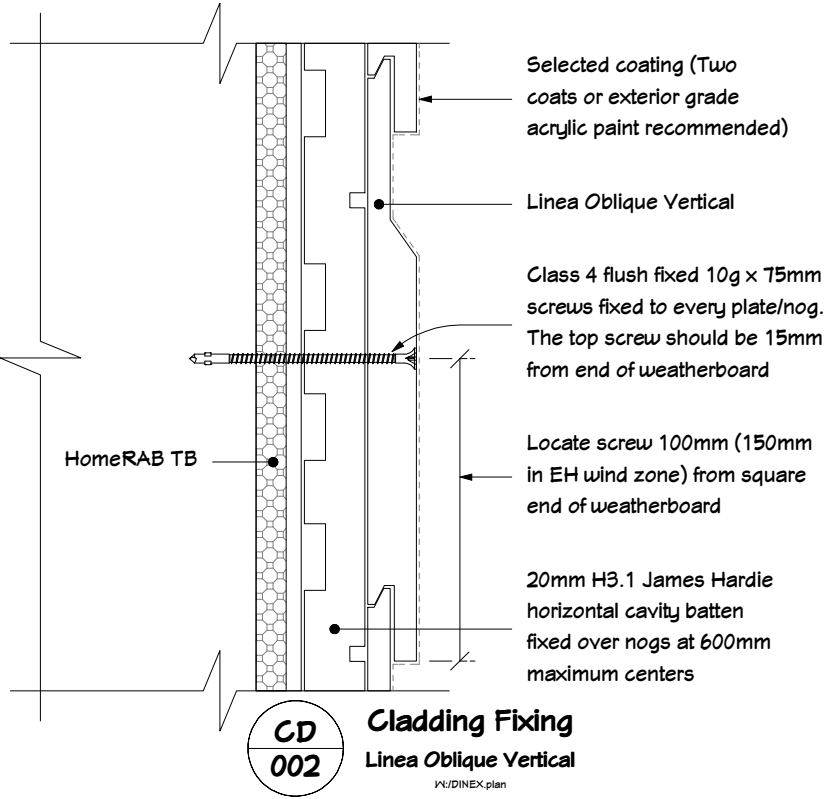
CLIENT:
Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):
 Sub-soil Classification: E
 Soil Classification: REF GEOTECH
 Wind Zone: High
 Earthquake Zone: 2
 Exposure Zone: C
 Climate Zone: 3
 Rain Intensity (10%AEF): 47.6mm/hr
 Snowload: 1.0kPa

Cladding Details - Resene
Integra Panel 6

JOB No: 97723 SALES: Aaron
 LBP: C. Neame 101178
 DRAWN: Katherine DATE: 27/08/2021
 SCALE: N.T.S SHEET No. 29 OF 38



WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
 with the Building Act 2004, clause 49 and the Building
 Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk

GOLDEN HOMES™

CODEMARK™
CM70023 Rev1

NOTES:

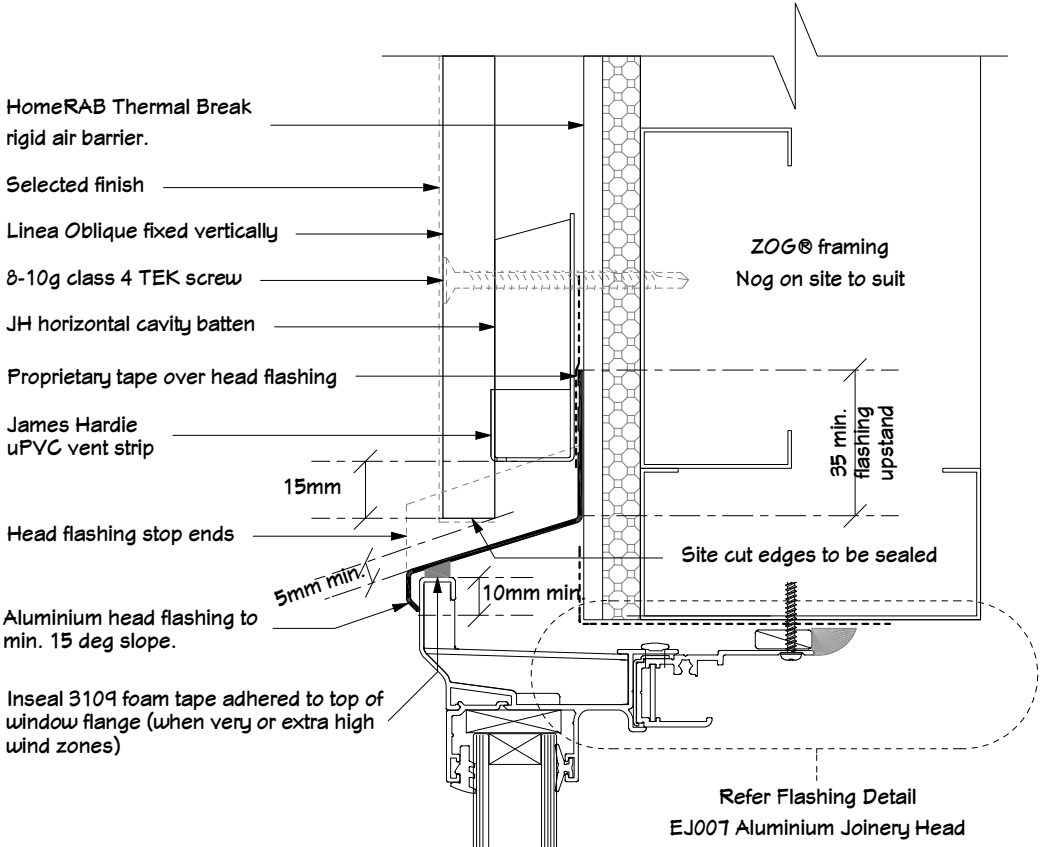
CLIENT: **Marshall Residence**
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 7

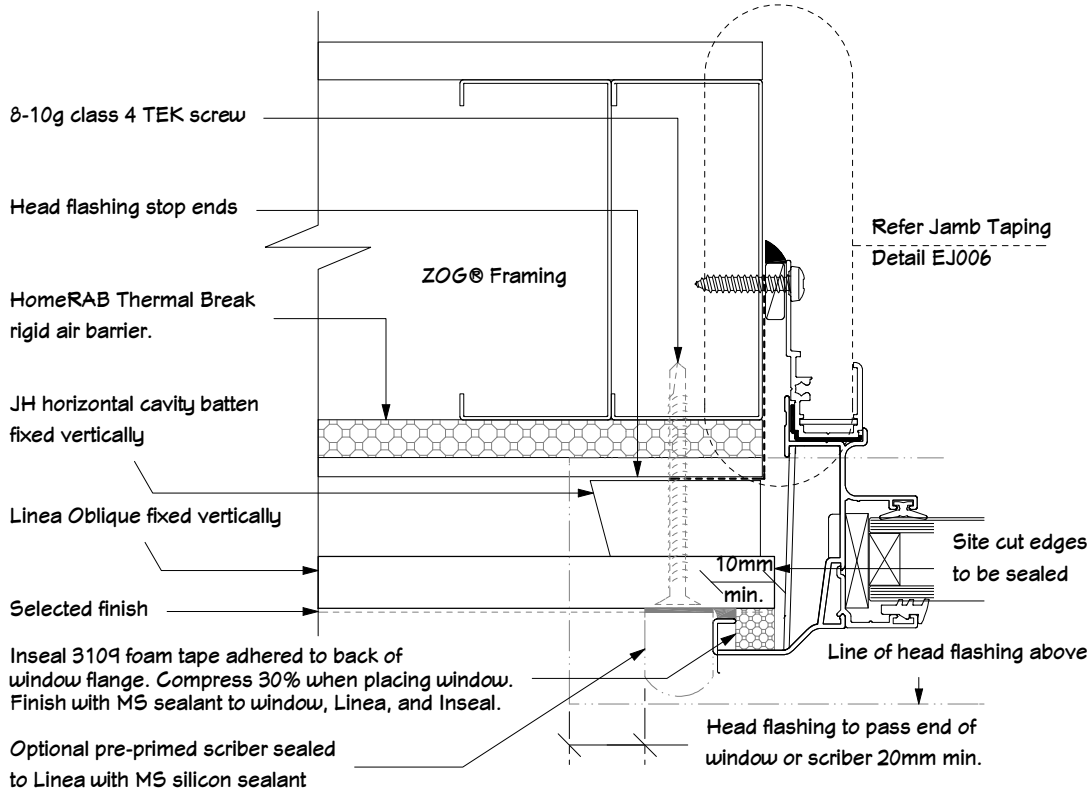
SITE DATA (for zones upto & including):
 Sub-soil Classification: **E**
 Soil Classification: **REF GEOTECH**
 Wind Zone: **High**
 Earthquake Zone: **2**
 Exposure Zone: **C**
 Climate Zone: **3**
 Rain Intensity (10%AEF): **47.6mm/hr**
 Snowload: **1.0kPa**

Cladding Details - Oblique Vertical 1

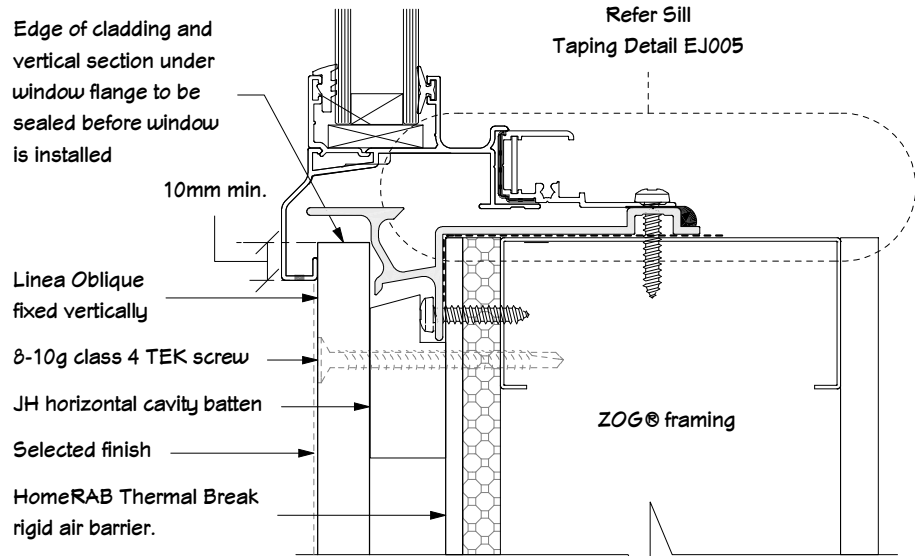
JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: N.T.S	SHEET No. 30 OF 38



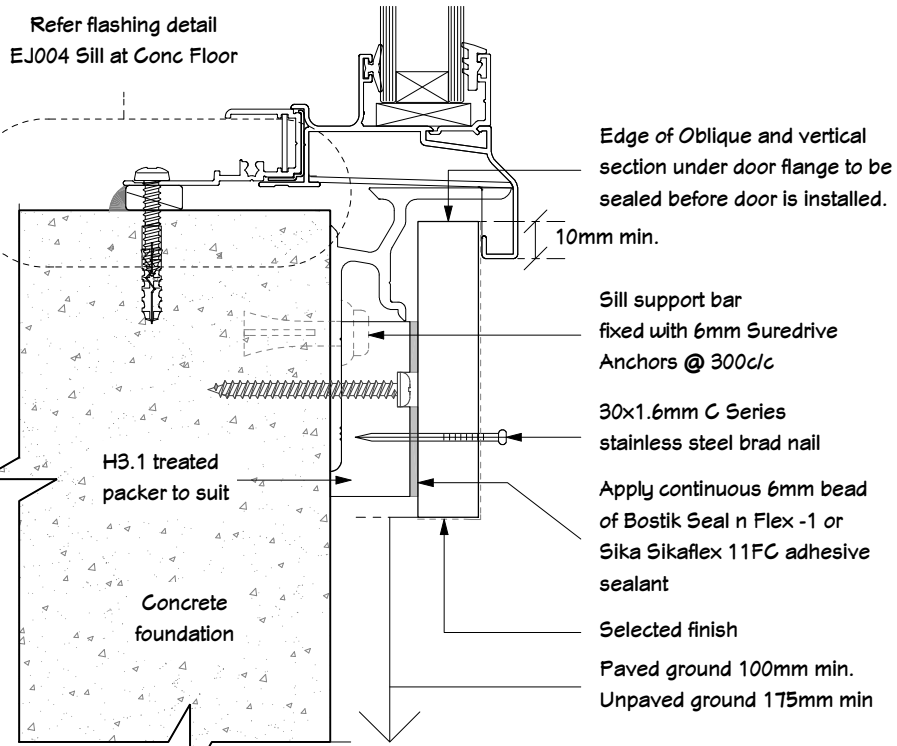
CD 110
Aluminium Joinery Head
 Linea Oblique Vertical
W/DINEX plan



CD 109
Aluminium Joinery Jamb
 Linea Oblique Vertical
W/DINEX plan



CD 108
Aluminium Joinery Sill at Frame
 Linea Oblique Vertical
W/DINEX plan



CD 107
Aluminium Joinery Sill at Conc Floor
 Oblique Vertical
W/DINEX plan

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
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NOTES:

CLIENT:

Marshall Residence
 Lot 11, DP 540916
 Greengrass Crescent
 Silverstream B9, Kaiapoi,
 Canterbury

TERRITORIAL AUTHORITY:

Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):

Sub-soil Classification: E
 Soil Classification REF GEOTECH
 Wind Zone: High
 Earthquake Zone: 2
 Exposure Zone: C
 Climate Zone: 3
 Rain Intensity (10%AEF): 47.6mm/hr
 Snowload: 1.0kPa

**Cladding Details - Oblique
 Vertical 2**

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: N.T.S	SHEET No. 31 OF 38



GOLDEN HOMES™



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CM70023 Rev1

NOTES:

CLIENT:

Marshall Residence

Lot 11, DP 540916

Greengrass Crescent

Silverstream B9, Kaiapoi,

Canterbury

TERRITORIAL AUTHORITY:

Waimakariri District Council

Residential Zone 1

SITE DATA (for zones upto & including):

Sub-soil Classification: E

Soil Classification REF GEOTECH

Wind Zone: High

Earthquake Zone: 2

Exposure Zone: C

Climate Zone: 3

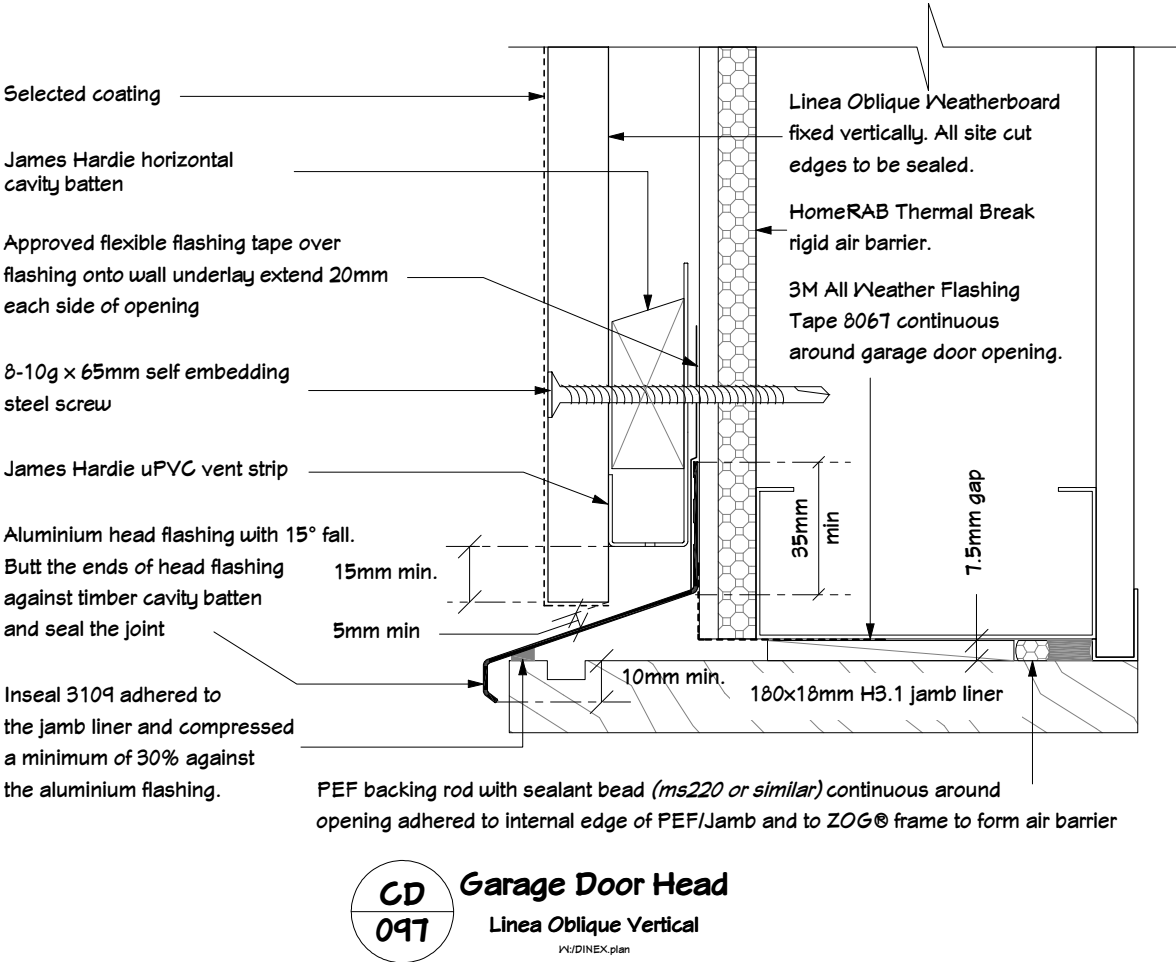
Rain Intensity (10% AEP): 47.6mm/hr

Snowload: 1.0kPa

Cladding Details - Oblique Vertical 3

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: N.T.S	SHEET No. 32 OF 38

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
 with the Building Act 2004, clause 49 and the Building
 Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk







NOTES:

CLIENT:

Marshall Residence
 Lot 11, DP 540916
 Greengrass Crescent
 Silverstream B9, Kaiapoi,
 Canterbury

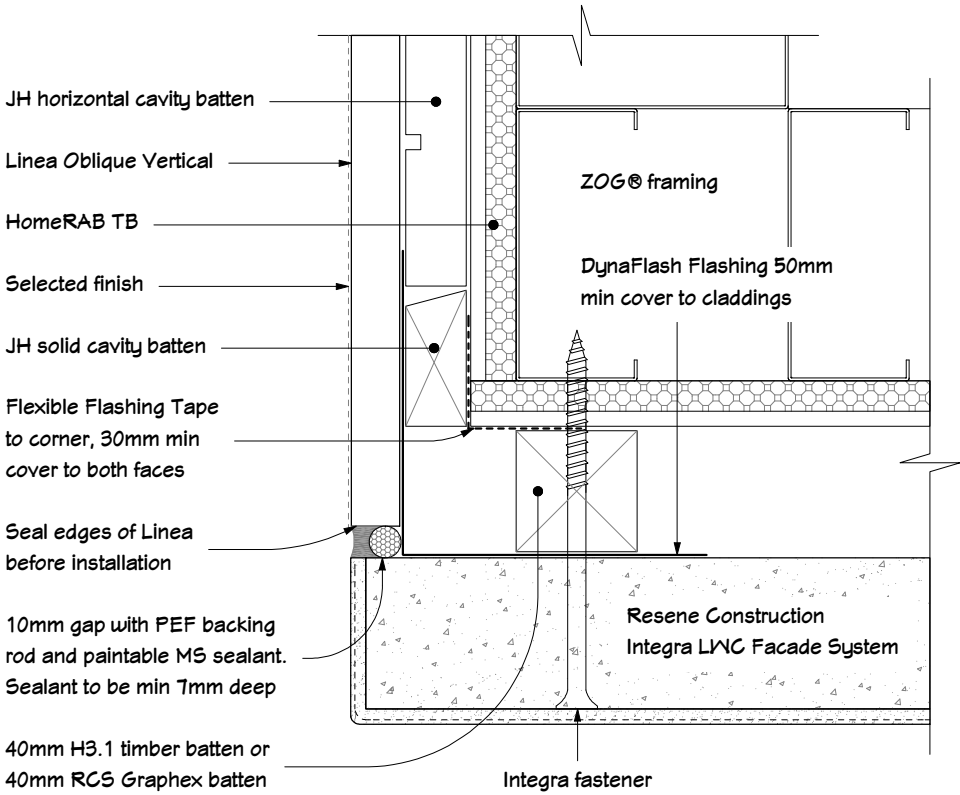
TERRITORIAL AUTHORITY:

Waimakariri District Council
 Residential Zone 1

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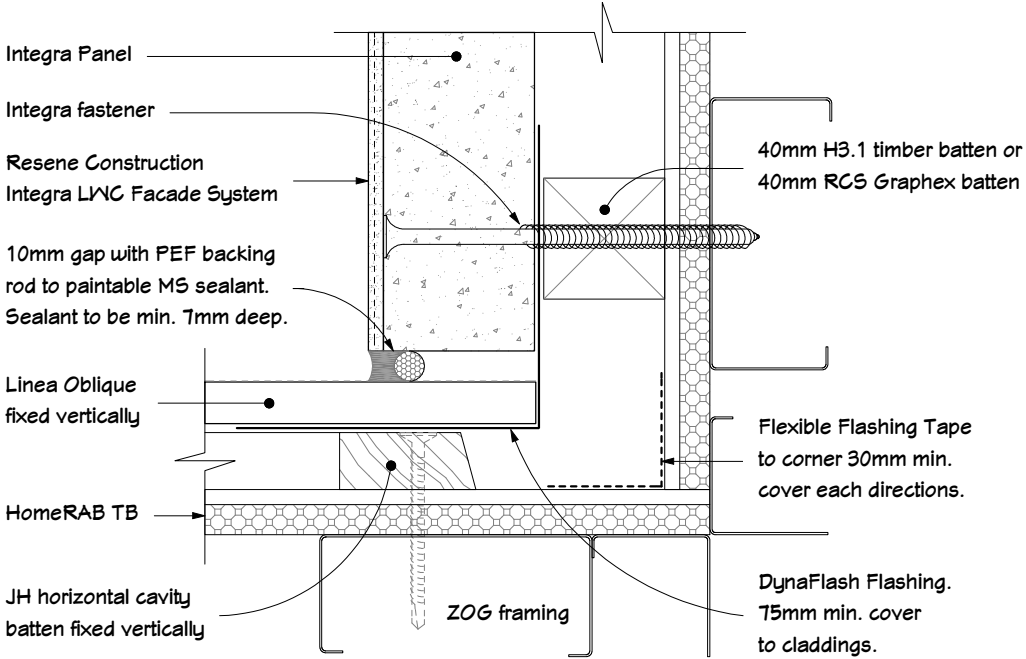
Sub-soil Classification: E
 Soil Classification REF GEOTECH
 Wind Zone: High
 Earthquake Zone: 2
 Exposure Zone: C
 Climate Zone: 3
 Rain Intensity (10%AEF): 47.6mm/hr
 Snowload: 1.0kPa

Cladding Details - Internal Corner Junction		
JOB No:	97723	SALES: Aaron
LBP:	C. Neame 101178	
DRAWN:	Katherine	DATE: 27/08/2021
SCALE:	N.T.S	SHEET No. 33 OF 38



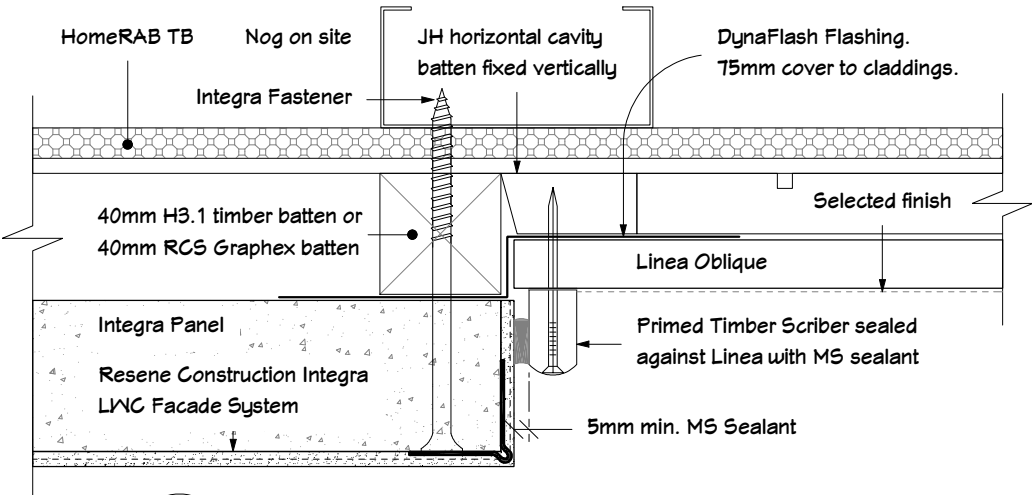
CD
008

External Corner Junction
 Linea Oblique Vertical to Resene Integra Panel (40mm Cavity)
V4/DINEX-plan



CD
006

Internal Corner Junction
 Linea Oblique Vertical to Resene Integra Panel (40mm Cavity)
V4/DINEX-plan



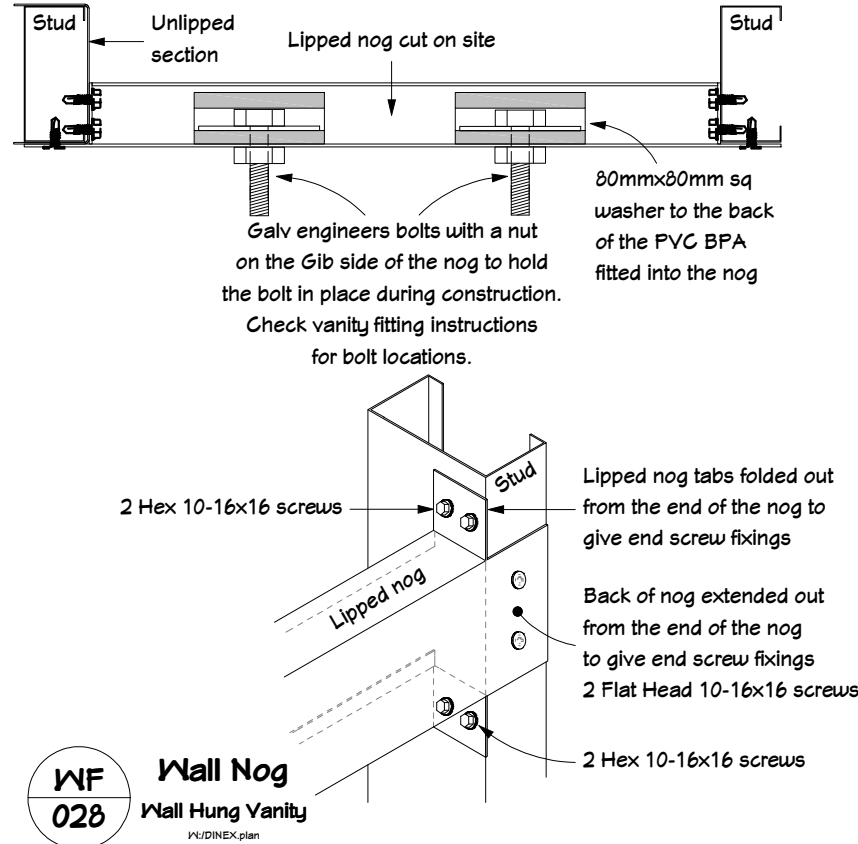
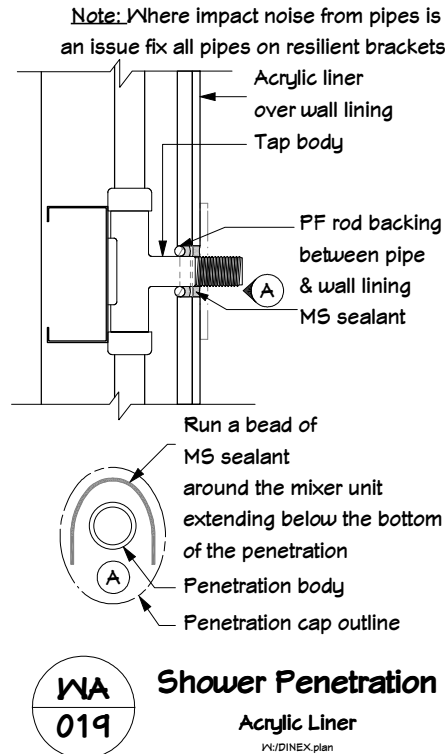
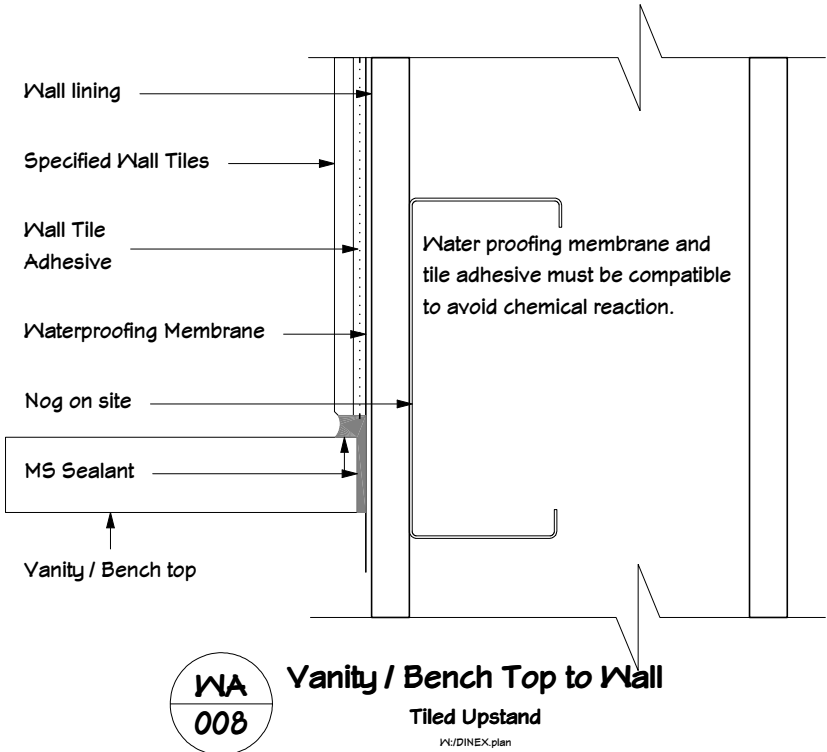
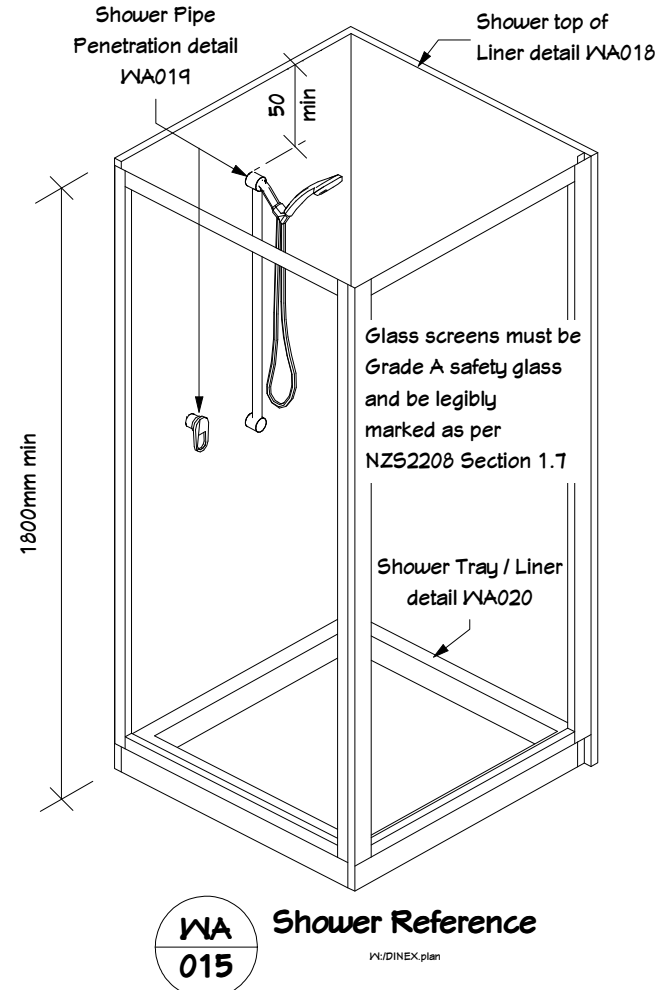
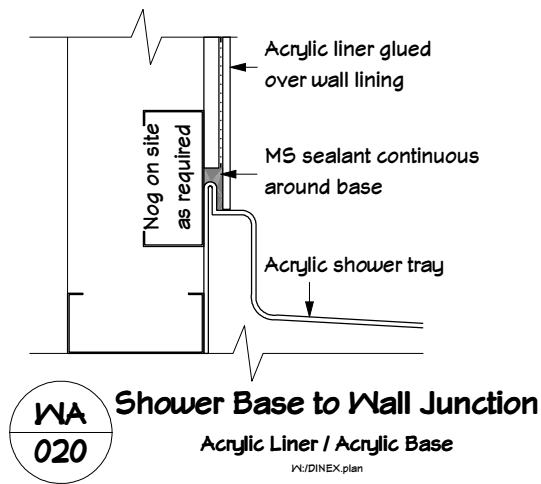
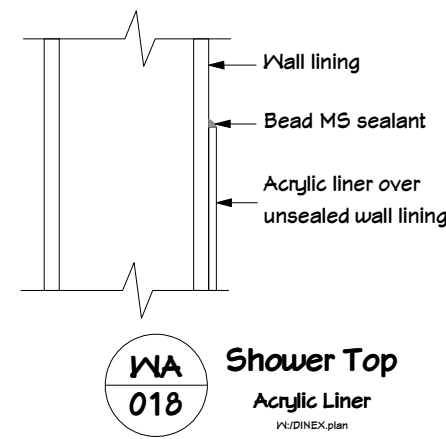
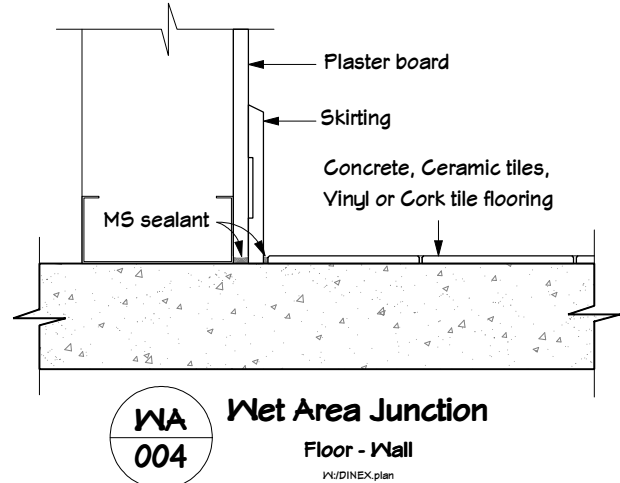
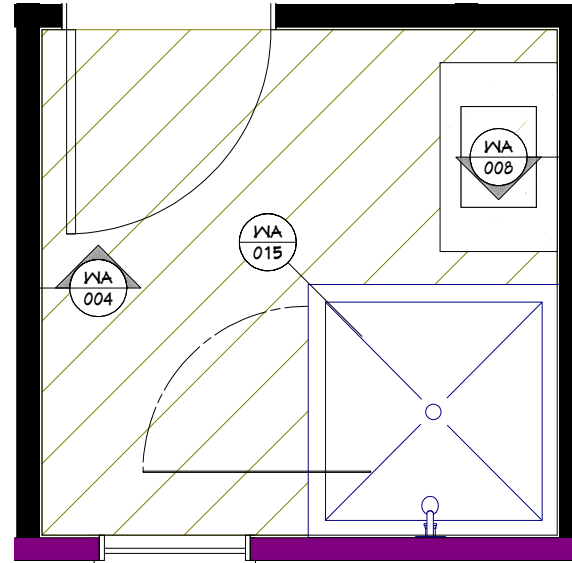
CD
069

Vertical Junction
 Linea Oblique Vertical to Resene Integra Panel (40mm Cavity)
V4/DINEX-plan

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
 with the Building Act 2004, clause 49 and the Building
 Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk



- NOTES:
- Wet area / water splash floor & wall options**
- Due to the finish variations required by the owner from time to time, the list below is provided as suitable options for floor and wall coverings in watersplash areas.
- Tiled - Ceramic or stone tiles having 6% maximum water absorption, waterproof grouted joints, and bedded with an adhesive specified by the tile manufacturer as being suitable for the tiles, substrate material and the environment use.
 - Cement based solid plaster or concrete having a steel trowel or polished finish, "semi-gloss" or "gloss" paint must be used if paint finish required.
 - Timber or timber based products such as particleboard/plywood sealed with waterproof applied coatings.
 - Sheet linings finished with vinyl coated wall paper, or semi-gloss or gloss coating. (wall only)
 - Integrally waterproof sheet material (e.g. polyvinylchloride "vinyl") with sealed joints.
 - Any other material that complies with NZBC E3 clauses 3.1.1, 3.1.2 & D1 A51/VM1



CLIENT:

Marshall Residence
Lot 11, DP 540916
Greengrass Crescent
Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:

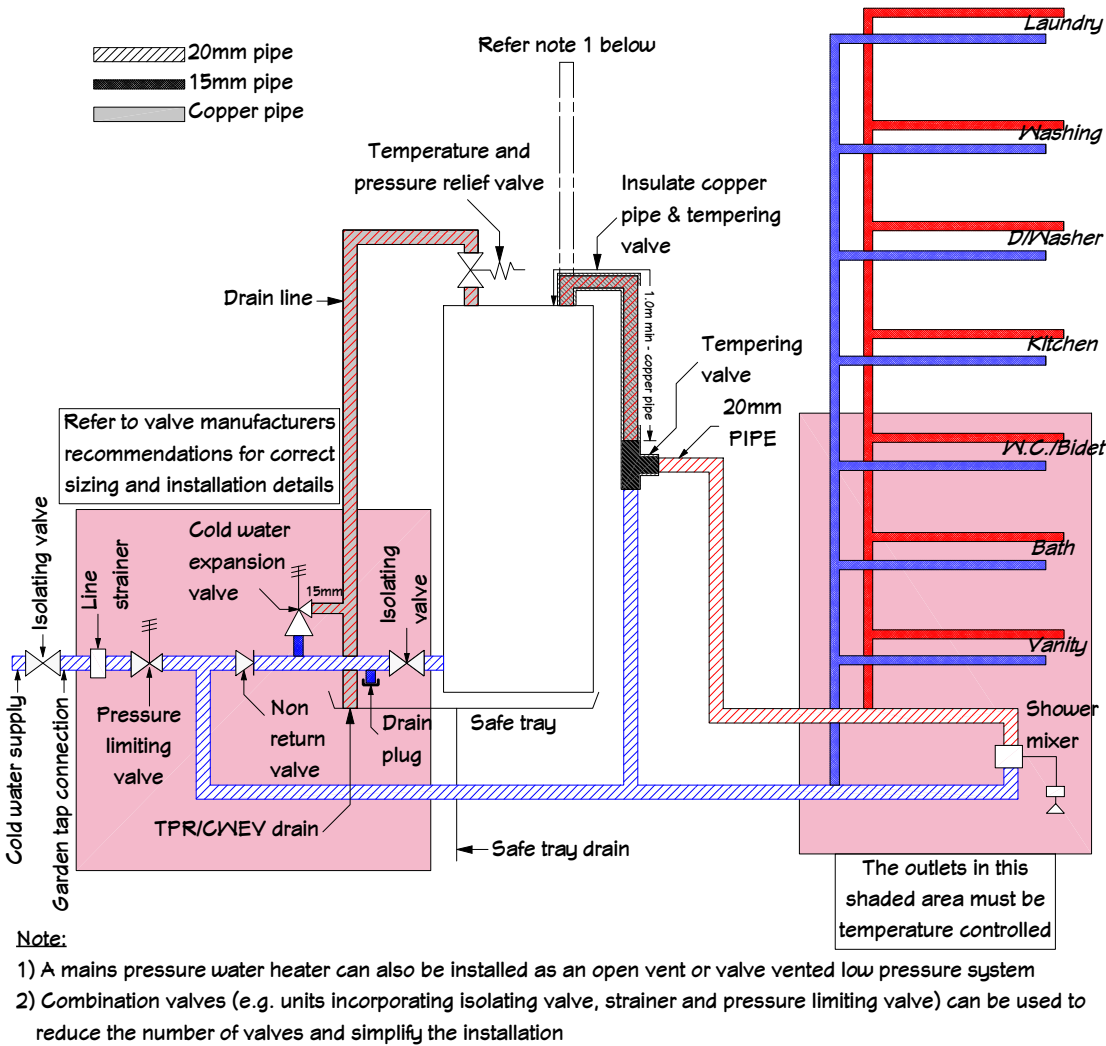
Waimakariri District Council
Residential Zone 7

SITE DATA (for zones upto & including):

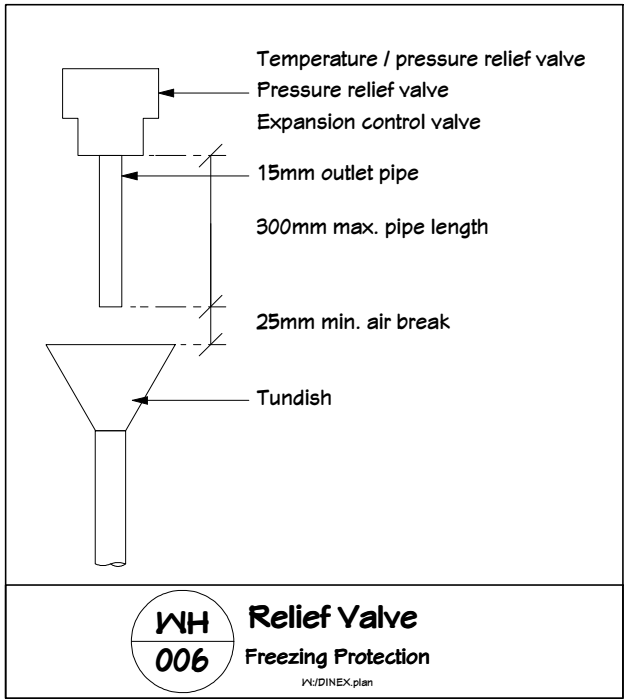
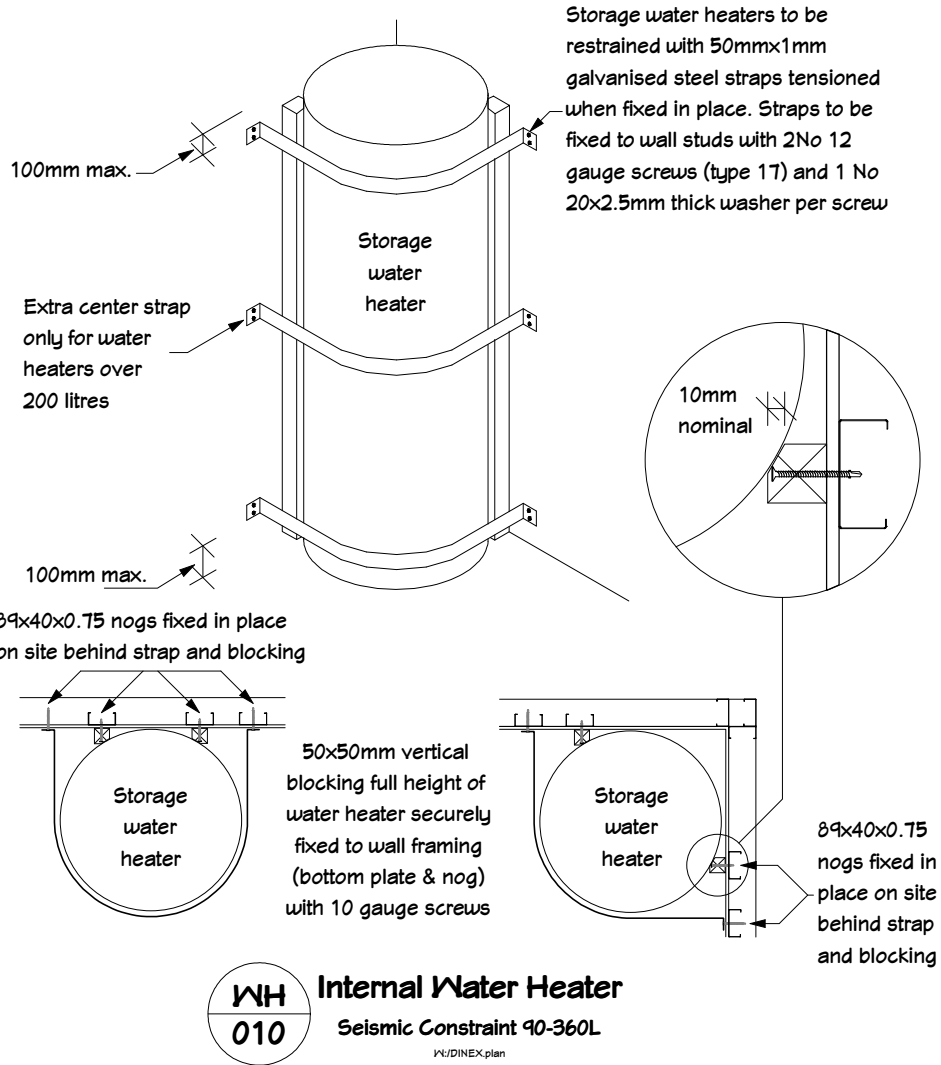
Sub-soil Classification: E
Soil Classification REF GEOTECH
Wind Zone: High
Earthquake Zone: 2
Exposure Zone: C
Climate Zone: 3
Rain Intensity (10%AEF): 47.6mm/hr
Snowload: 1.0kPa

Wet Area Details 1		
JOB No:	97723	SALES: Aaron
LBP:	C. Neame	101178
DRAWN:	Katherine	DATE: 27/08/2021
SCALE:	N.T.S	SHEET No. 34 OF 38

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
 with the Building Act 2004, clause 49 and the Building
 Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk



WH
001
Mains Pressure HWC Installation
Electrical
W/DINEX plan



- NOTES:
- Water storage heater control thermostat shall be set at a temperature of not less than 60°C to prevent the growth of Legionella bacteria.
 - Tempering Valve to be installed as per NZBC G12, to allow for a maximum of 55°C water to be delivered to sanitary fixtures.
- Water efficiency measures (use the following)
- Showers using not more than 9 litres of water per minute.
 - Tap equipment using not more than 9 litres of water per minute.
 - Toilets using no more than 4 litres per flush.

CLIENT:
 Marshall Residence
 Lot 11, DP 540916
 Greengrass Crescent
 Silverstream B9, Kaiapoi,
 Canterbury

TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):
 Sub-soil Classification: E
 Soil Classification REF GEOTECH
 Wind Zone: High
 Earthquake Zone: 2
 Exposure Zone: C
 Climate Zone: 3
 Rain Intensity (10% AEP): 47.6mm/hr
 Snowload: 1.0kPa

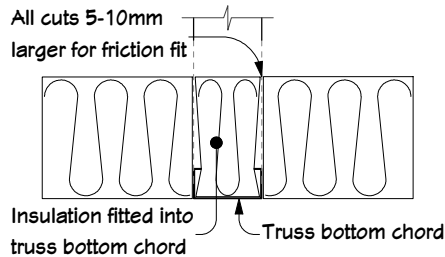
Water Heating Details

JOB No: 97723	SALES: Aaron
LBP: C. Neame 101178	
DRAWN: Katherine	DATE: 27/08/2021
SCALE: N.T.S	SHEET No. 35 OF 38

Max developed pipe length

To comply with both H1 and G12, a 15mm pipe at 12m max developed pipe length from the HWC to the kitchen sink meets the requirements of the acceptable solutions. As an alternative solution, an increase of up to 50% (Total 18m) can be approved, provided the pipe is insulated over its full length from the HWC with preformed closed cell foam with 13mm wall thickness.

This generic alternative solution is considered to meet the requirements of both G12 and H1"



ID
002

Insulation Detail

Truss Bottom Chord
N/DINEX-plan

INSULATION CALCULATION (Steel frame)

Climate zone : upto and including climate zone 3
as per NZBC - Clause H1, Energy Efficiency - third edition
and NZS:4218 2009, Energy Efficiency - small building envelope

BUILDING DESCRIPTION

All measurements are as per NZS 4218:2009 Appendix A

Building Thermal Envelope					
FLOORS	Total Area	Total Perimeter	Ratio	Total Thermal Floor Area	Actual R-value
Concrete floor	126.41	49.90	2.53	95.27	1.30
Suspended	0.00	0.00	0.00	0.00	0.00
WALLS	Perimeter	Stud height	Area (ex. voids) (incl. glazing)	Glazed area	
Wall # 1 - Interior wall (garage)	5.77	2.42	13.95	0.00	1.60
Wall # 2 - AAC Panels	12.58	3.30	41.20	10.08	2.22
Wall #2 - Intersections, 90mm voids (No. of)	1	3.30	0.30	N/A	0.44
Wall # 3 - AAC Panels	29.66	2.42	69.82	6.30	2.22
Wall #3 - Intersections, 90mm voids (No. of)	9	2.42	1.96	N/A	0.44
Wall # 4 - W/board(16mm Fibre-cement)	1.59	3.34	4.71	0.00	2.13
Wall #4 - Intersections, 90mm voids (No. of)	2	3.34	0.60	N/A	0.44
Wall # 5 - W/board(16mm Fibre-cement)	2.88	2.42	6.97	2.92	2.13
Wall #5 - Intersections, 90mm voids (No. of)	0	2.42	0.00	N/A	0.44
Wall # 6 - #####	0.00	0.00	0.00	0.00	2.08
Wall #6 - Intersections, 90mm voids (No. of)	0	0.00	0.00	N/A	0.44
ROOFS	Area				
Trussed (excl. skylight area)	95.27				3.69
Raftered (excl. skylight area)	0.00				0.00
GLAZING	Actual glazing	Max glazing @ 30%	Glazing over 30%		
Glazing Weathertight	19.30				0.26
Glazing All Seasons	0.00				0.35
Glazing	19.30	41.85	0.00		0.26
Sky Lights	0.00				0.26

CALCULATION FOR - Average roof insulation R-value

	Total Area	Area %	Actual system R-value (Ar)	Actual R-value
(a) Full height batts (hatched)	95.27	100.0%	Actual system R-value (Ar) =	3.69
(b) Chamfered batts (grey)	0.00	0.0%	Actual system R-value (Br) =	3.09
Total thermal roof area	95.27	100.0%	Average system R-value =	3.69

Example calculation: Average R-value = $1 / ((a\%/Ar) + (b\%/Br))$

REFERENCE BUILDING HEAT LOSS

R-values as per NZS:4218 2009

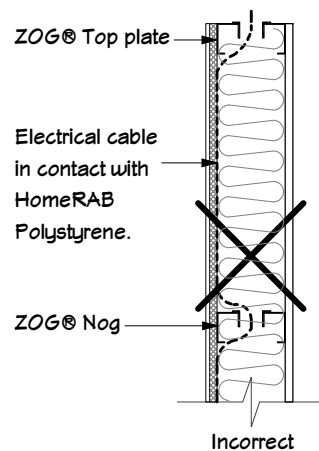
Building Thermal Envelope	Area(sqM)	R-Value(min)	Heat loss(area/r-value)
Roof	95.27	3.30	28.9
Wall (set at 70%)	97.65	2.00	48.8
Floor	95.27	1.30	73.3
Glazing ≤ 30% (set at 30%)	41.85	0.26	161.0
Glazing > 30%	0.00	0.40	0.0
Sky Lights	0.00	3.30	0.0
Total Heat Loss of the Reference Building			312.0

PROPOSED BUILDING HEAT LOSS

R-values as per BRANZ INSULATION GUIDE - fourth edition & REDCO calculations

Building Thermal Envelope	Area (sqM)	R-Value	Heat loss (area/r-value)
Trussed (excl. skylight area)	95.27	3.69	25.8
Raftered (excl. skylight area)	0.00	0.00	0.0
Wall # 1 - Interior wall (garage)	13.95	1.60	8.7
Wall # 2 - AAC Panels	31.12	2.22	14.0
Wall # 3 - AAC Panels	63.52	2.22	28.6
Wall # 4 - W/board(16mm Fibre-cement)	4.71	2.13	2.2
Wall # 5 - W/board(16mm Fibre-cement)	4.05	2.13	1.9
Wall # 6 - #####	0.00	2.08	0.0
Wall voids (total)	2.86	0.44	6.5
Concrete floor	95.27	1.30	73.3
Suspended	0.00	0.00	0.0
Glazing ≤ 30% (double)	19.30	0.26	74.2
Glazing > 30% (double)	0.00	0.26	0.0
Sky Lights	0.00	0.26	0.0
Total Heat Loss of the Proposed Building			235.3

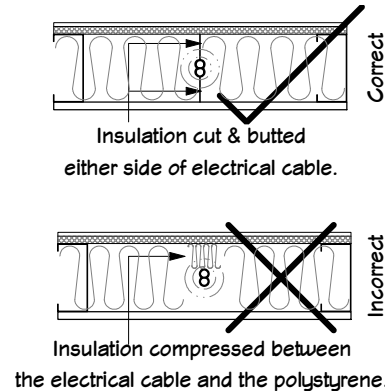
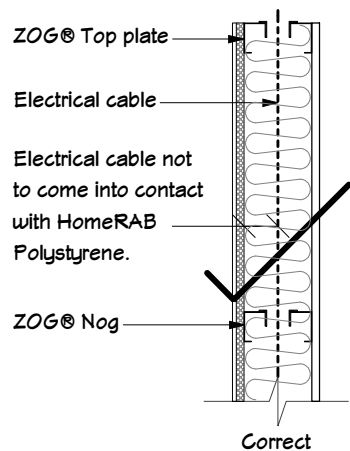
(Must be less than or equal to the Reference Building)



ID
003

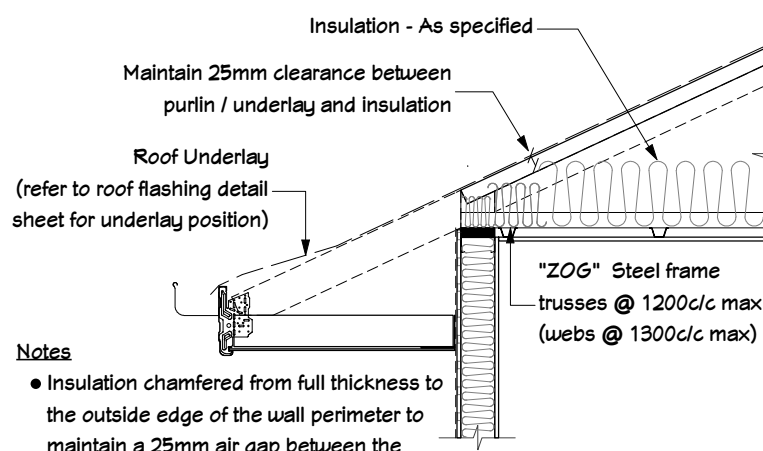
Insulation Detail

Electrical Cable in Insulated Walls
N/DINEX-plan



Notes

- Insulation chamfered from full thickness to the outside edge of the wall perimeter to maintain a 25mm air gap between the insulation and the roofing underlay / purlin.
- Insulation is to cover bottom chord of trusses.
- Insulation is to be installed in and around truss webs.



Insulated area
refer to plan
Chamfered area

ID
001

Insulation Detail

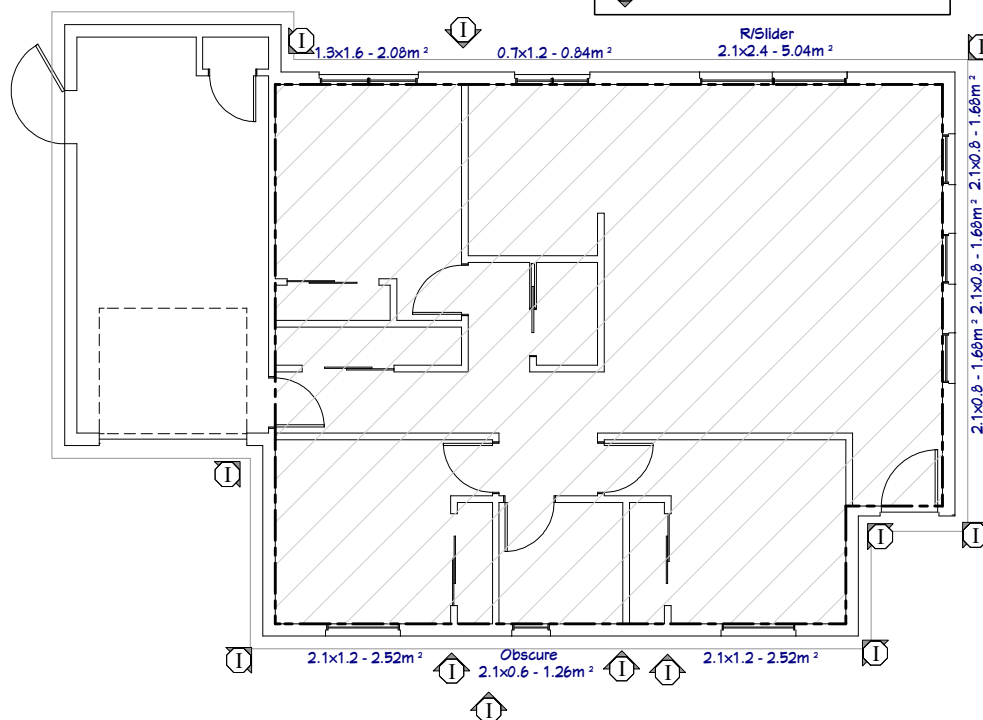
Chamfered Edge at Truss Heel
N/DINEX-plan

Roof Areas -

(Line indicates max extent full height insulation)

- (a) Full height batts (hatched) = 95.27sqM
- (b) Chamfered batts (grey) = 0.00sqM
- Total thermal roof area = 95.27sqM

Wall intersection, 90mm void (R0.44)



WAIMAKARIRI DISTRICT COUNCIL
Plans and specifications APPROVED in accordance
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NOTES:

- Edge of thermal roof area
- Start of chamfered edge

THERMAL BREAKS:

Thermal breaks increase the performance of the steel & reduce the risk of internal condensation.

External walls:

Thermal break is achieved by first installing a 30mm PVC blocks under all connections between truss & wall top plates (ref NASH Building Envelope Solutions 2016 Section 11.2) and secondly by sheathing the external perimeter with HomeRAB Thermal.

Roof:

Thermal break is achieved by installing the insulation as a blanket type, over the bottom chords and in & around the truss webs. (ref NASH Building Envelope Solutions 2016 Section 11.5)

CLIENT:

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Lot 11, DP 540916
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Silverstream B9, Kaiapoi,
Canterbury

TERRITORIAL AUTHORITY:

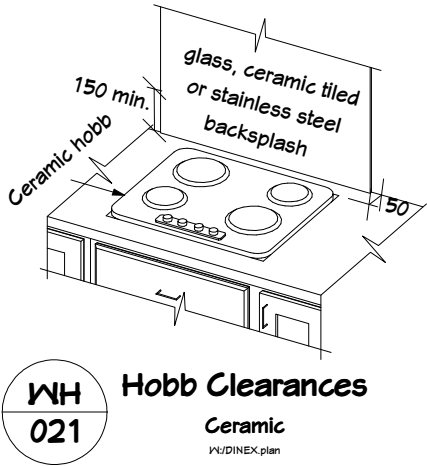
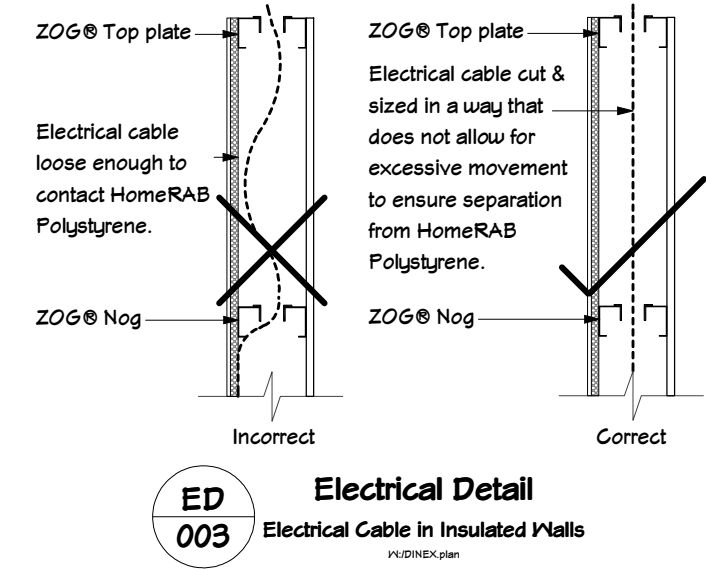
Waimakariri District Council
Residential Zone 1

SITE DATA (for zones upto & including):

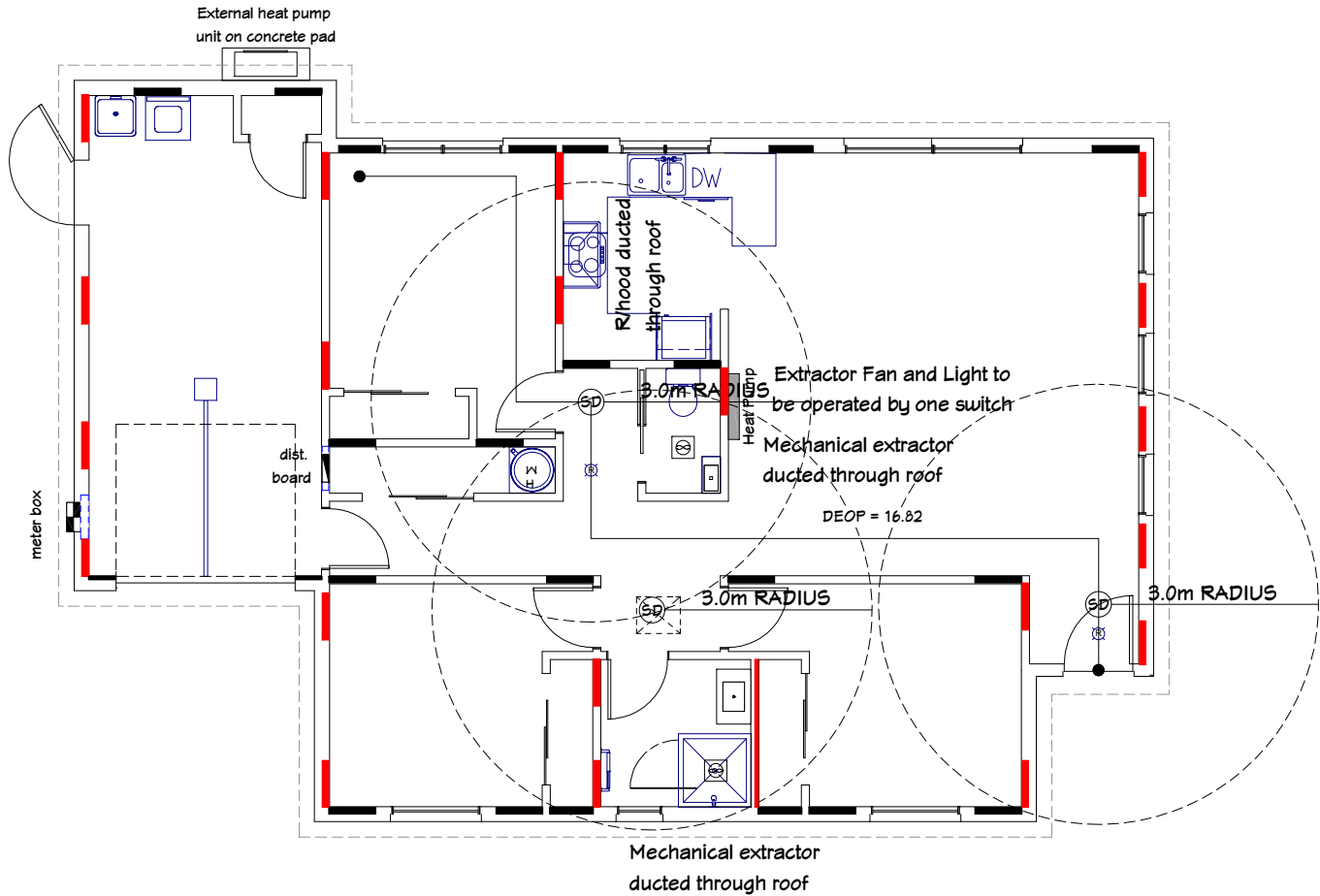
Sub-soil Classification: E
Soil Classification: REF GEOTECH
Wind Zone: High
Earthquake Zone: 2
Exposure Zone: C
Climate Zone: 3
Rain Intensity (10%AEF): 47.6mm/hr
Snowload: 1.0kPa

Insulation Details

JOB No: 97723 SALES: Aaron
LBP: C. Neame 101178
DRAWN: Katherine DATE: 27/08/2021
SCALE: N.T.S SHEET No. 36 OF 38



WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
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 BC211794 20/01/2022 Chrisk



ELECTRICAL KEY	
	RECESSED LIGHTS
	EXTRACTOR FAN
	SINGLE P/POINT
	DOUBLE P/POINT
	RCD POINT
	TV OUTLET
	TELEPHONE JACK
	2 WAY LIGHT CIRCUIT
	RANGEHOOD DUCTING
	SMOKE DETECTORS

Electrical cables in contact with Black Pearl® thermal break must be of a type which utilise a PVC compound containing a non migratory plasticiser. When using cables without non migratory plasticiser, there must be no direct contact between the cable and the Black Pearl® thermal break. Separation can be achieved by installing in a suitable conduit, leaving an air gap, placing fibreglass insulation between the cable and the Black Pearl® or using a polyethylene or polypropylene tape between the cable and the Black Pearl® thermal break.

Artificial lighting to be installed in all access routes and shall provide a minimum 20 lux at floor level.



- NOTES:
- Bracing Element Lines**
- Holes or intrusions into the ZOG® frame bracing elements may require engineers specific design for remedial work. 'The designer' must be contacted for an alternative solution prior to any intrusions and/or modifications being made to bracing elements.
 - Any switch mounted into plasterboard used as a component in the bracing element must be a minimum of 150mm from the element edge.
 - Meter box to be 500mm max width.
 - Positions of ventilation ducting is approximate only and to be confirmed by the installer.
 - An audible smoke alarm must be positioned on all levels within 3.0m of the door of any sleeping space. Smoke alarms should preferably be fitted to the ceiling in a central position and must be at least 300mm away from any wall or light fitting. Smoke alarms shall be listed or approved by a recognised authority as complying with at least one of: UL 21T, CAN/ULC 5531, AS 3786, BS 5446: Part 1, ISO 12239, or BS RN14604.
 - All recessed lights to be Type IC (Abutted & Covered)
 - Mechanical ventilation is compliant with G4/ AS1 1.3.3 a) 25 L/s for showers and baths, and b) 50 L/s for cooktops.

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TERRITORIAL AUTHORITY:
 Waimakariri District Council
 Residential Zone 7

SITE DATA (for zones upto & including):
 Sub-soil Classification: **E**
 Soil Classification **REF GEOTECH**
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 Earthquake Zone: **2**
 Exposure Zone: **C**
 Climate Zone: **3**
 Rain Intensity (10%AEF): **47.6mm/hr**
 Snowload: **1.0kPa**

Electrical Plan			
JOB No:	97723	SALES:	Aaron
LBP:	C. Neame 101178		
DRAWN:	Katherine	DATE:	27/08/2021
SCALE:	N.T.S	SHEET No.	37 OF 38

EXTERIOR Fascia Stratco Concept External gutter Stratco Quad 115 Downpipes Metalcraft 80mm Colorsteel downpipe Roofing Stratco Superdek Roof underlay Fasturap FlameSpec SS Roof underlay Support Bayonet Premium-6 Netting-50mm Soffit cladding 4.5mm Hardisoffit™ Garage door jamb 180×19 H3 Rad FJ PP Garage door head Resene 50mm Integra Lightweight Concrete Facade System - Supported External joinery Bradnams WeatherTight™ Wall underlay HomeRAB Thermal Flexible flashing tape 3M All Weather Flashing Tape 8067 Wall Cladding Resene 50mm Integra Lightweight Concrete Facade System - Supported James Hardie Linea® Oblique weatherboard - 200 - Vertical	INTERIOR Ceiling insulation Pink® Batts® Classic R3.6 Ceiling Garage - None Wall insulation Pink® Batts® Steel Wall Classic R2.2 Garage - None Ceiling lining Gib® Standard 10mm Ceiling Finish Resene SpaceCote paint - All rooms Wall lining Gib® Standard 10mm Wall Finish Resene SpaceCote paint - All rooms Wall angle trims Gib® Goldline™ Square Corner Trim Ceiling hatch The Hatch 600×500mm Cornice Square stopped Cornice cpds & closets Square stopped Skirting No20 60×10mm Rad FJ Single Bevel Architraves No19 40×10mm Rad FJ Single Bevel Door jams 19mm Rad FJ Flat Jamb & Planted Stops Doors Flush FQ HC Door furniture Schlage Elan Door finish Resene Lustacryl Paint Hot water heater Rheem Mains Pressure Electric 180L 312 180 15 Laundry tub Robinhood Supertub ST7002 - with Washing Machine only	BATHROOM Vanity VCBC Zara T50 Splashback Tiles Mirror Organic-backed safety mirror (vinyl-backed) Shower cubicle Clearlite Sierra 1000×1000 Waterproofing membrane Laticrete Hydro Ban Membrane Tile Adhesive Laticrete 253 Gold Tile Adhesive Heated towel rail Goldair GLTR Mechanical Ventilation Manrose 100mm Centrifugal Classic
KITCHEN Bench top Wilsonart Laminate Sink Oliveri Lakeland Splashback Tiles Cooktop Electric Rangehood Fisher Paykel Rangehood HC90PLX4	DRAINAGE Stormwater pipes Marley Sewer pipes Marley	W.C Toilet Stylus Venecia Vanity Michel Cesar Soho Splashback Tiles Waterproofing membrane Laticrete Hydro Ban Membrane Tile Adhesive Laticrete 253 Gold Tile Adhesive Mechanical Ventilation Manrose 100mm Centrifugal Classic

WAIMAKARIRI DISTRICT COUNCIL
 Plans and specifications APPROVED in accordance
 with the Building Act 2004, clause 49 and the Building
 Regulations 1992, Clause 3
 BC211794 20/01/2022 Chrisk



NOTES:
CLIENT: Marshall Residence Lot 11, DP 540916 Greengrass Crescent Silverstream B9, Kaiapoi, Canterbury
TERRITORIAL AUTHORITY: Waimakariri District Council Residential Zone 7
SITE DATA (for zones upto & including): Sub-soil Classification: E Soil Classification REF GEOTECH Wind Zone: High Earthquake Zone: 2 Exposure Zone: C Climate Zone: 3 Rain Intensity (10%AEF): 47.6mm/hr Snowload: 1.0kPa
Product Schedule
JOB No: 97723 SALES: Aaron LBP: C.Nearne 101178 DRAWN: Katherine DATE: 27/08/2021 SCALE: N.T.S SHEET No. 38 OF 38

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