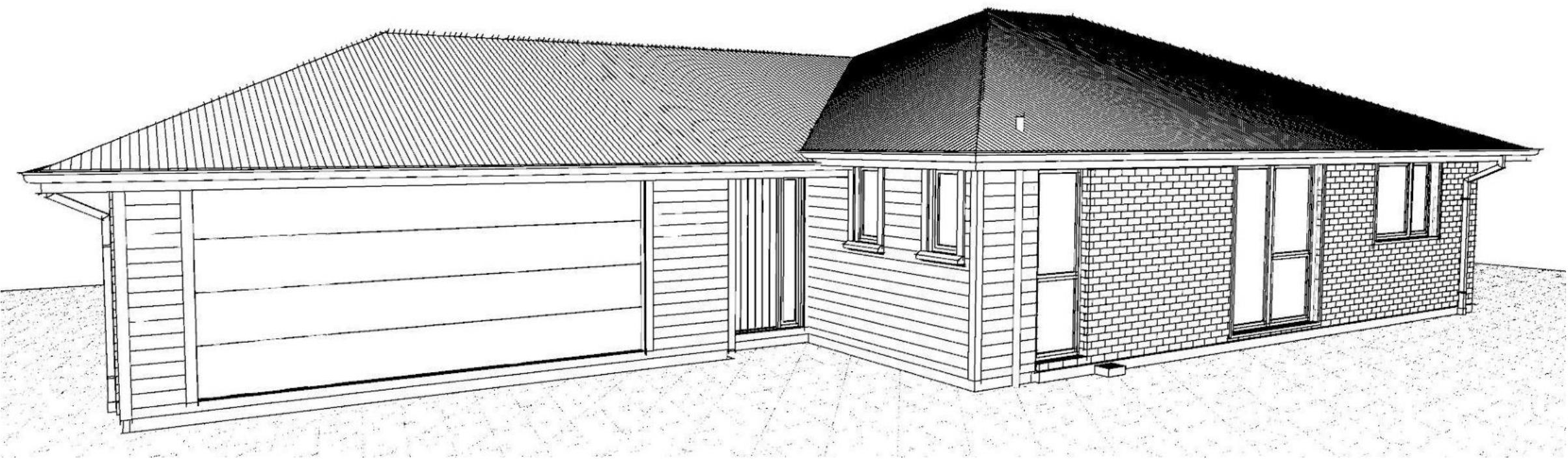




Contents:

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

Amendment #1



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TKR Homes Ltd.
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PO BOX 11 351
Christchurch 8443
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Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch

Job Number:
170030

Original Plan:
Kakariki 168

Sheet Name:
COVER PAGE

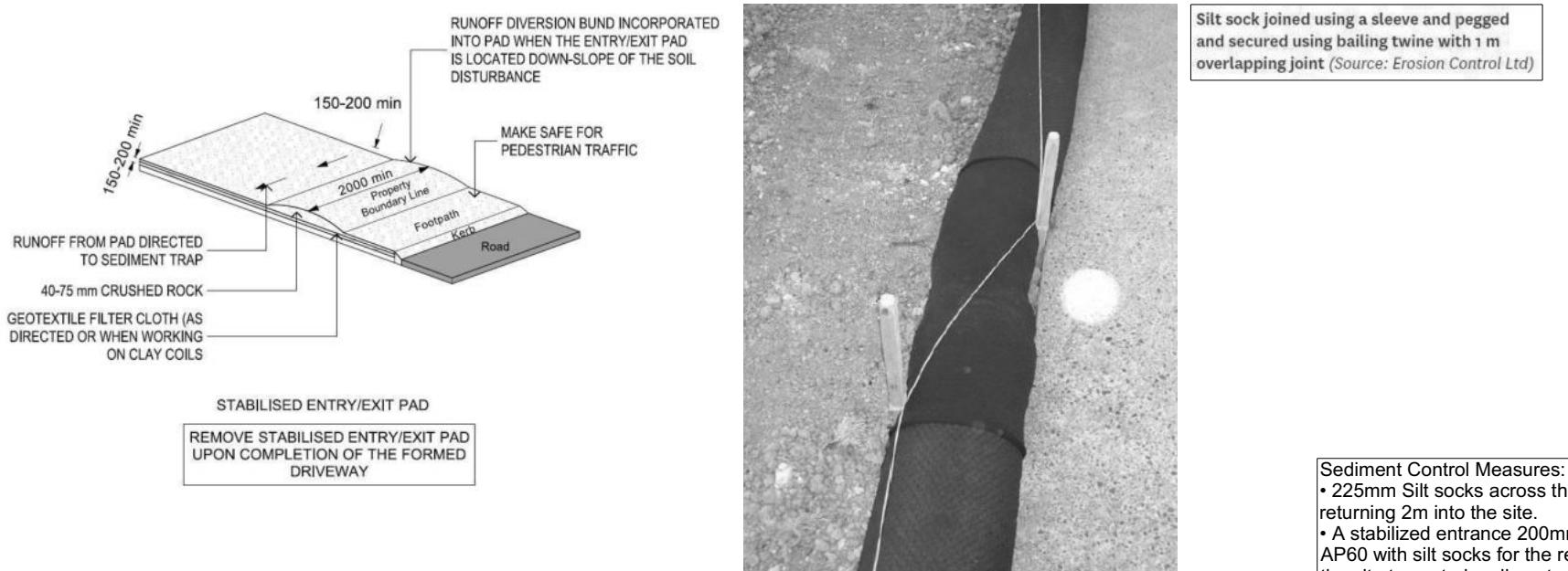
Sales: V Bhatia Drawn: M Glynn QS: W Xian Print Date: 4/08/2023 Scale: @ A3

CONSENT PLANS

| No. | Date: | Reason: |
|-----|------------|-----------------------|
| 1 | 10-11-2021 | Initial Consent Plans |
| 2 | 04-08-2023 | Revised Consent Plans |
| | | |
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Sheet No.:
1

of 23 sheets



**Christchurch
City Council**

BCN/2022/2323

**Approved Building Consent
Document**

22/08/2023

Maher, Kevin

| SITE INFORMATION | |
|-------------------------|----------------------|
| Site Area : | 491m ² |
| Floor Area (VENEER) : | 167.84m ² |
| Site Coverage : | 34.18% |

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

Note: The dimensions shown are from

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

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

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

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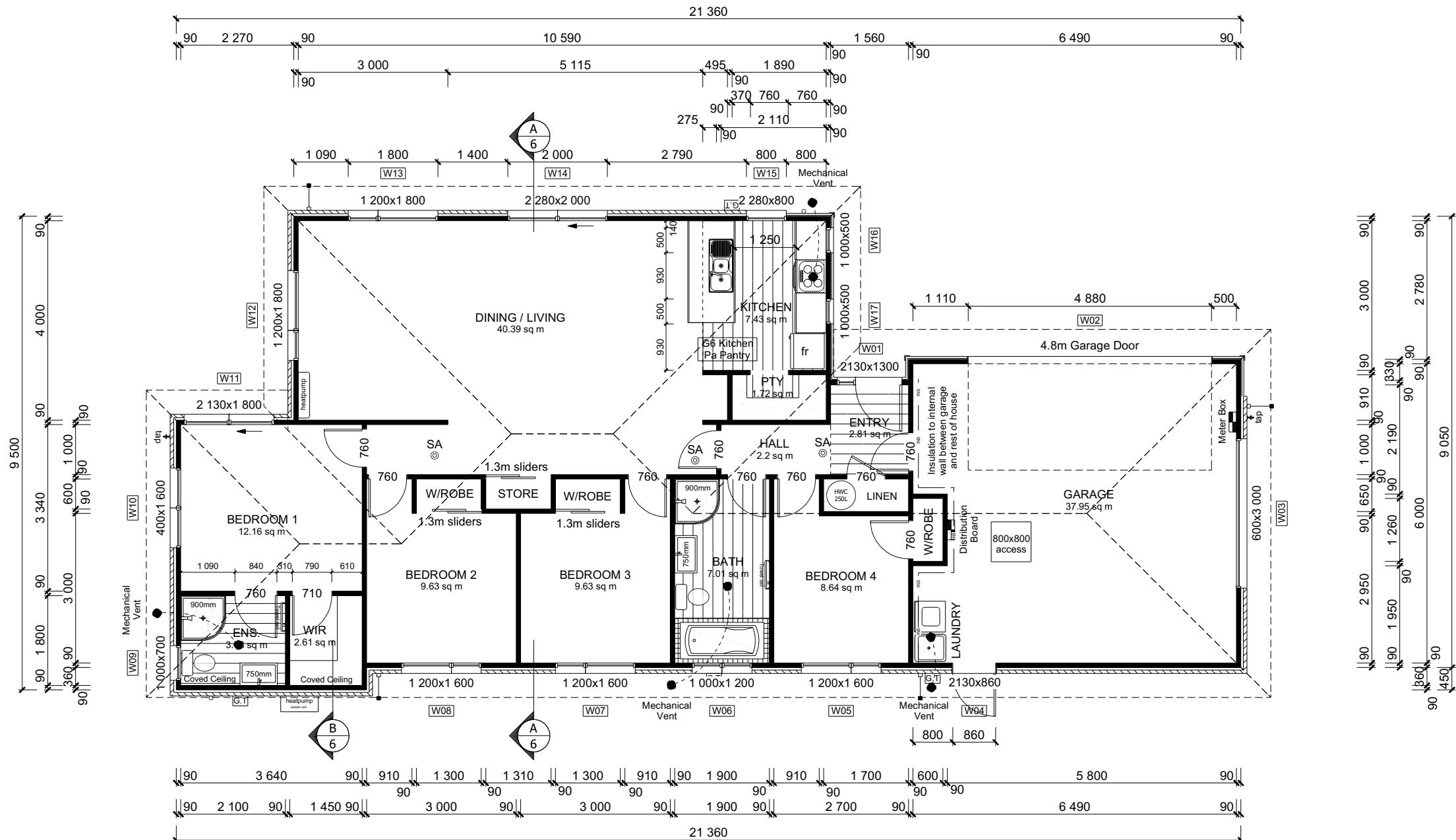
Job Number:
170030

Original Plan:
Kakariki 168

Sheet Name:

Elevation
C

Christchurch City Council
BCN/2022/2323
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22/08/2023
Maher, Kevin



ROOF & WALL CLADDINGS
Roof: 25° Corrugate Longrun
Walls: 70 Series Brick Veneer with a 50mm cavity
Linea Weatherboards (with facings) with a 20mm cavity

DWELLING AREAS
Framing Area: 161.10m² (Perimeter: 62.56m)
Veneer Area: 167.84m² (Perimeter: 63.52m)
Roof Area: 197.97m² (Perimeter: 65.62m)

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

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

WALL FRAMING
Stud Height: 2400 mm (2455mm to u/s of bottom chord)
2550mm to Dining, Living, Kitchen & Pantry (2605mm to u/s of bottom chord)

FLOOR FINISHES
Amendment #1
Carpet & Vinyl

KITCHEN HOB
Electric Hobs

DOORS
Internal Height: 1980mm (leaves)
Type: Hollow core flush panel
Front Door Type: Latitude Aluminium

INTERNAL TRIMS
Scotia: 50mm GIB Coving (excluding garage)
Skirting: 60x12mm Pine, single bevel edge
Architrave: N/A

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

DRAWING NOTES
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Elevation
A

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Lot 38
Belfast Development
Belfast, Christchurch

Job Number:
170030

Original Plan:
Kakariki 168

Sheet Name:
FLOOR PLAN

Sales: **V Bhatia** Drawn: **M Glynn** QS: **W Xian** Print Date: **4/08/2023** Scale: **1:100 @ A3**

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| 1 | 10-11-2021 | Initial Consent Plans |
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ELEVATION LEGEND
 SS Safety Saws
 SG Safety Glass
 MB Meter Box
 TV Terminal Vent

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

| BUILDING ENVELOPE RISK MATRIX | | |
|-------------------------------|------|-------|
| ELEVATION A | | |
| RISK CRITERIA | RISK | SCORE |
| Wind Zone | High | 1 |
| Number of Stories | Low | 0 |
| Roof Wall Junction | Low | 0 |
| Eaves Width | High | 2 |
| Building Envelope | Low | 0 |
| Decks & Balconies | Low | 0 |
| Total | | 3 |



ELEVATION A

| BUILDING ENVELOPE RISK MATRIX | | |
|-------------------------------|--------|-------|
| ELEVATION B | | |
| RISK CRITERIA | RISK | SCORE |
| Wind Zone | High | 1 |
| Number of Stories | Low | 0 |
| Roof Wall Junction | Low | 0 |
| Eaves Width | Medium | 1 |
| Building Envelope | Medium | 1 |
| Decks & Balconies | Low | 0 |
| Total | | 3 |



ELEVATION B

Amendment #1

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Renee Mau
 Lot 38
 Belfast Development
 Belfast, Christchurch

Job Number: **170030** Original Plan: **Kakariki 168** Sheet Name: **ELEVATIONS**
 Sales: **V Bhatia** Drawn: **M Glynn** QS: **W Xian** Print Date: **4/08/2023** Scale: **1:100 @ A3**

CONSENT PLANS

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 Document No:
 22/08/2023 Maher, Kevin

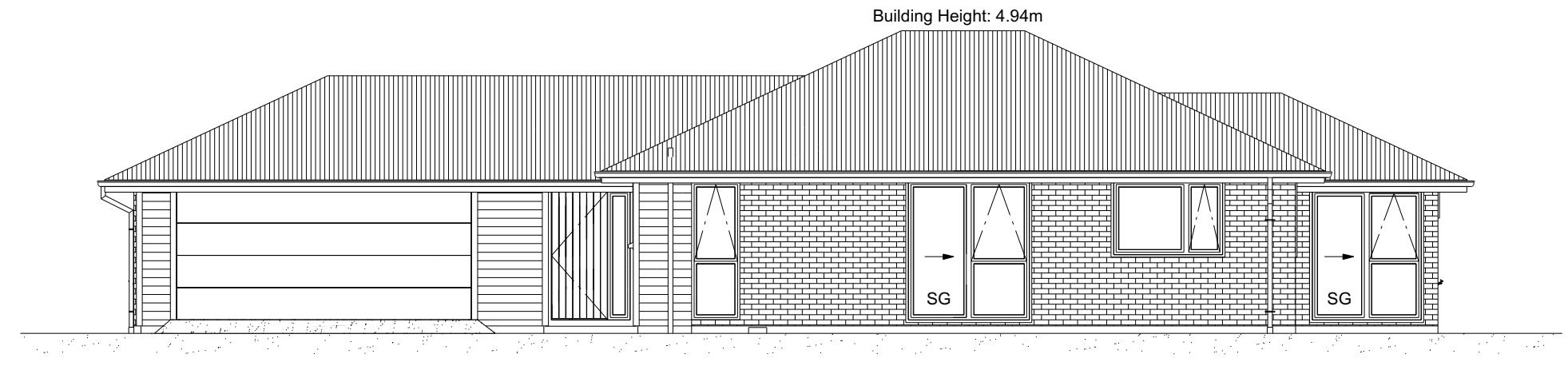
ELEVATION LEGEND

| | |
|----|---------------|
| SS | Safety Saws |
| SG | Safety Glass |
| MB | Meter Box |
| TV | Terminal Vent |

ELEVATION NOTES

Gutter : Coloured Steel Quad Gutter
 Fascia : Coloured Steel 185 Fascia
 Downpipes : Colorsteel Rectangular 75x55mm
 Soffits : Hardiflex 4.5mm
 Joinery : Double glazed aluminum
 All egress points to have a maximum step down of 190mm.
 Access routes to have slip resistance surface in compliance with NZBC D1/AS1 Table 2 and to have a 1:100 fall away from the building

| BUILDING ENVELOPE RISK MATRIX | | |
|-------------------------------|--------|-------|
| ELEVATION C | | |
| RISK CRITERIA | RISK | SCORE |
| Wind Zone | High | 1 |
| Number of Stories | Low | 0 |
| Roof Wall Junction | Low | 0 |
| Eaves Width | Medium | 1 |
| Building Envelope | Medium | 1 |
| Decks & Balconies | Low | 0 |
| Total | | 3 |



ELEVATION C

Amendment #1

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



ELEVATION D

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Renee Mau
 Lot 38
 Belfast Development
 Belfast, Christchurch

Job Number: **170030** Original Plan: **Kakariki 168** Sheet Name: **ELEVATIONS**
 Sales: **V Bhatia** Drawn: **M Glynn** QS: **W Xian** Print Date: **4/08/2023** Scale: **1:100 @ A3**

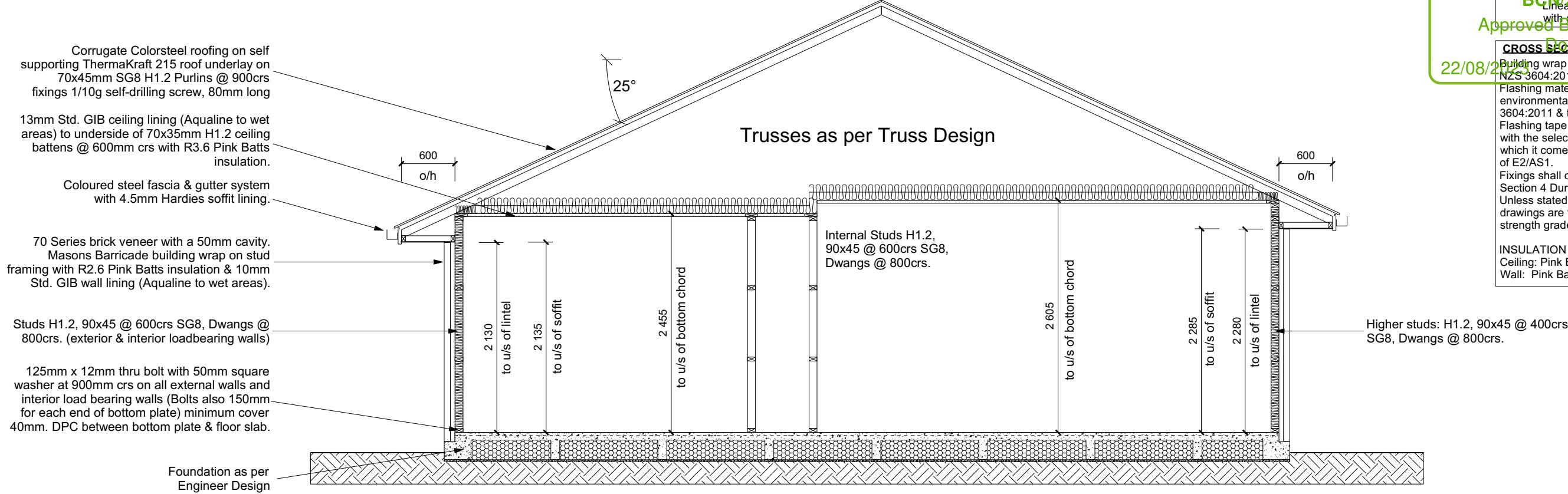
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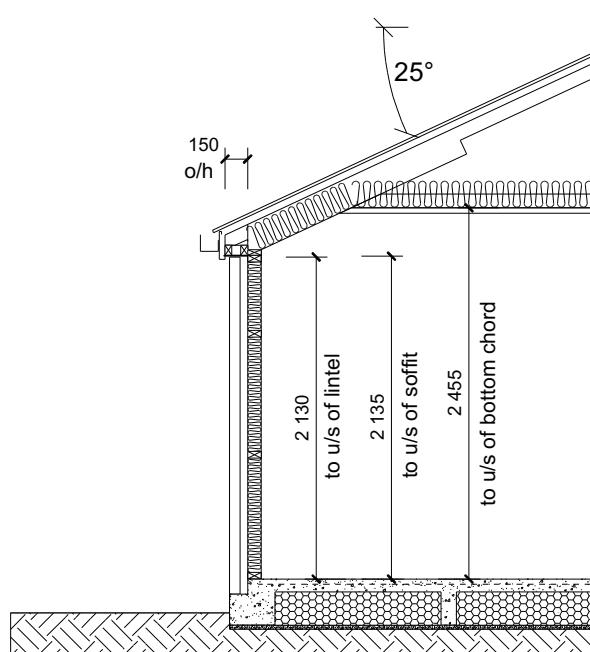
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| | |
|---|---------------------|
| ROOF & WALL CLADDINGS | |
| Roof: | 25° Pitched Longrun |
| 70 Series Brick Veneer | |
| with a 50mm cavity | |
| Linea Weatherboards (with facings) | |
| with a 20mm cavity | |
| Approved Building Consent | |
| Document | |
| 22/08/2023 | |
| Name: Mau, Kevin | |
| CROSS SECTION NOTES | |
| Building wrap is to comply with E2/AS1 & Nzs 3604:2011. | |
| Flashing materials must be selected based on environmental exposure. Refer to Nzs 3604:2011 & table 20 of E2/AS1. | |
| Flashing tape must have proven compatibility with the selected wrap & other materials with which it comes into contact as per table 21 of E2/AS1. | |
| Fixings shall comply with Nzs 3604:2011 Section 4 Durability Tables 4.1-4.3 | |
| Unless stated otherwise, timber members on drawings are to be a minimum of SG8 strength graded as per Nzs 3604:2011. | |
| INSULATION | |
| Ceiling: Pink Batts R3.6 Ceiling Batts | |
| Wall: Pink Batts R 2.6 Wall Batts | |



CROSS SECTION A-A



CROSS SECTION B

Amendment #1

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Lot 38
Belfast Development
Belfast, Christchurch

Job Number:
170030

Original Plan:
Kakariki 168

Sheet Name:
CROSS SECTIONS

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Figure 43: Ridge to hip flashings
Paragraphs 8.4.11 and 8.4.12

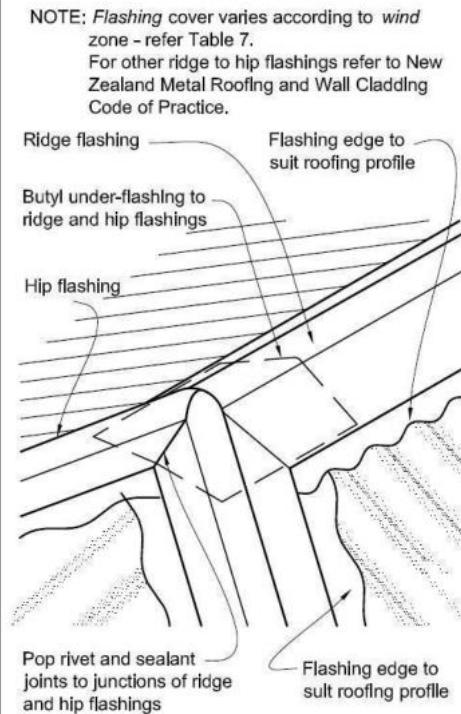
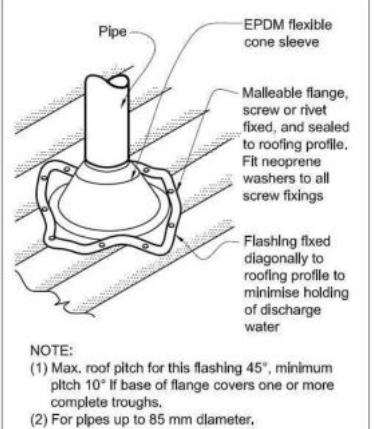
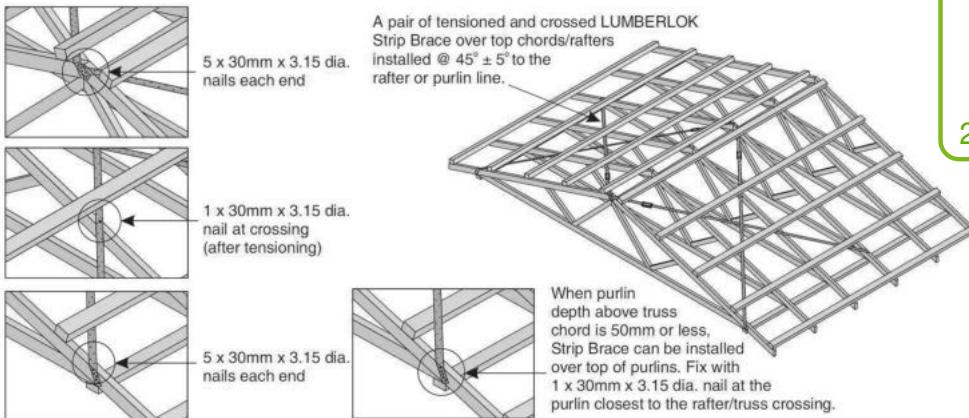


Figure 53: Flashing for small pipes
Paragraphs 8.3.10, 8.4.17, 9.6.8.5 and 9.6.9.6



- A pair of tensioned and crossed LUMBERLOK Strip Brace running continuously from ridge to top plate installed as detailed below.



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22/08/2023
Mahan, Kevin

ROOF CLADDING
Colorsteel 75x55mm Colgate Colorsteel
Pitch: 10°-25°, 55x58 H1.2 @ 900crs, fixings
End span of purlins to be 600crs as per E2 Table 11.

ROOF PLAN NOTES

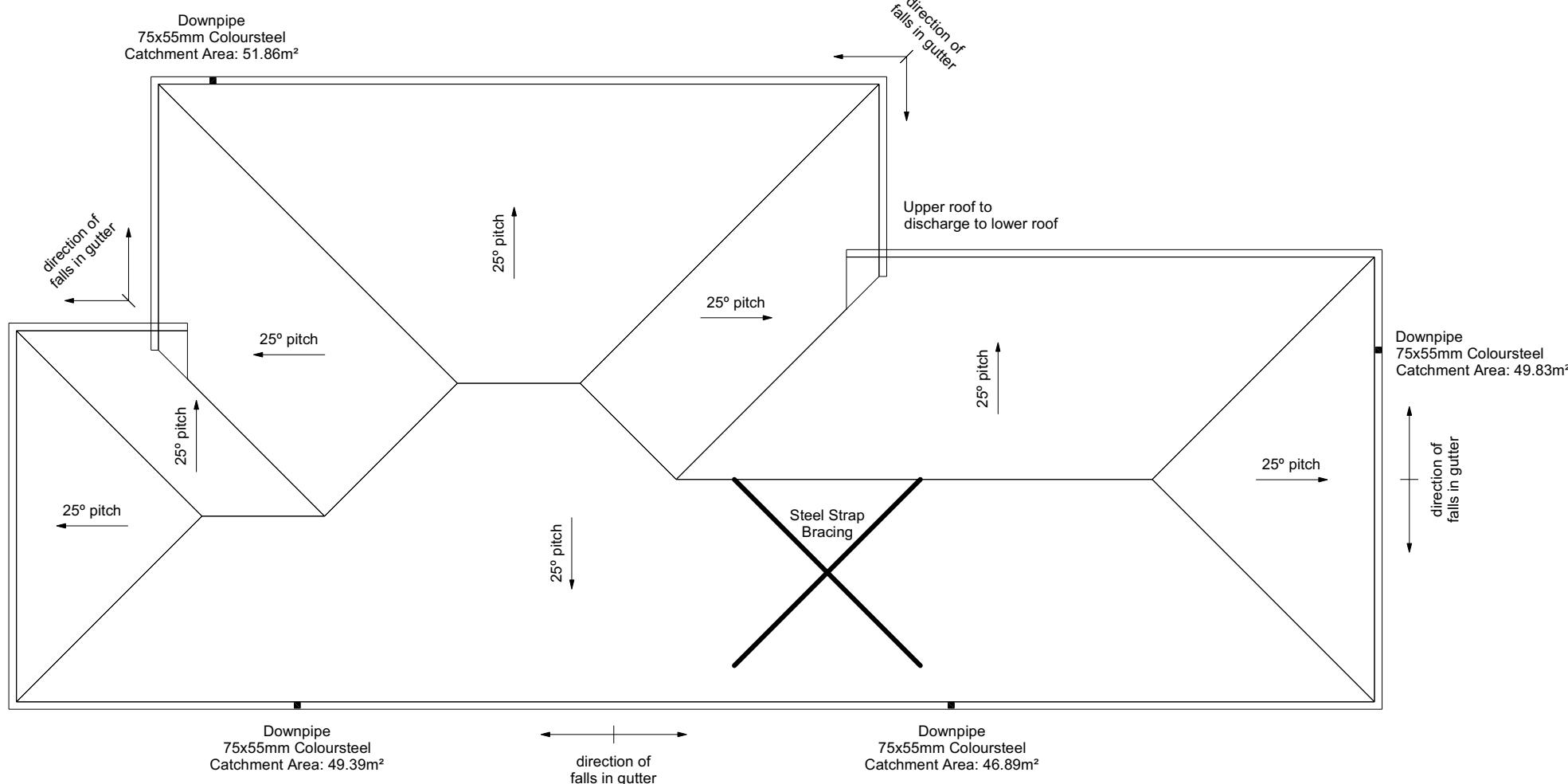
Gutter: Coloured Steel Quad Gutter fascia: Coloured Steel 185 fascia Downpipes: Colorsteel Rectangle 75x55mm Soffits: Hardiflex 4.5mm

Underlay: Thermakraft 215 roof underlay

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

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

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



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Lot 38
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Belfast, Christchurch

Job Number: **170030**
Original Plan: **Kakariki 168**
Sheet Name: **ROOF PLAN**
Sales: **V Bhatia** Drawn: **M Glynn** QS: **W Xian**
Print Date: **4/08/2023** Scale: **1:100 @ A3**

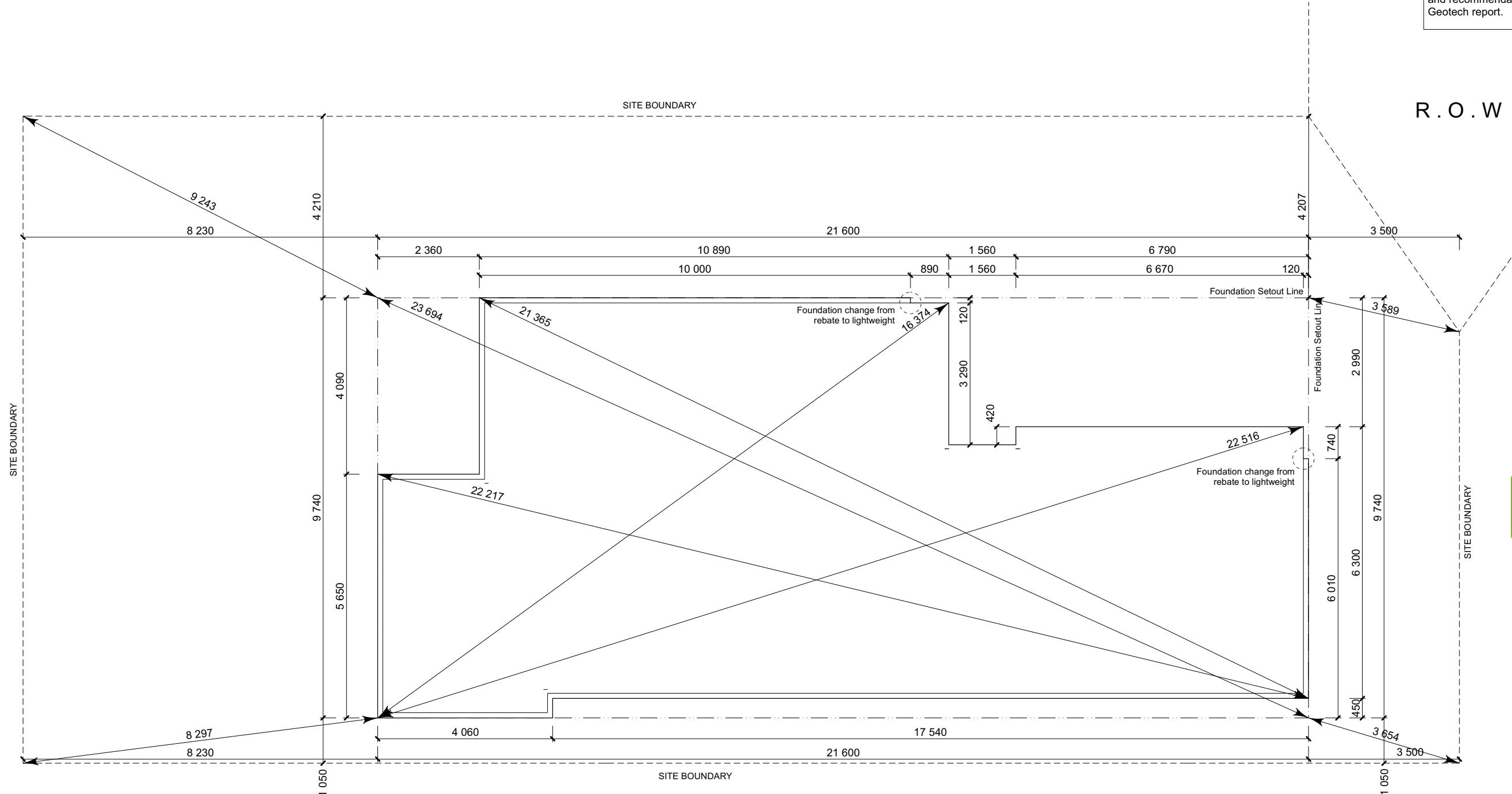
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Christchurch City Council SET OUT PLANS NOTES Page 8 of 30
 BBN/2022/2283 All dimensions to foundation face. Allow 7mm veneer & 50mm cavity fill to ground foundation face by 0-20mm max as per NZBC E2/AS1.
 Reinforcing is to be Ductile Class F in accordance with NZS 4671.
 All concrete to comply with NZS3604:2011 Section 4 Durability Clause 4.5.2.
 22/08/2023 Maher, Kevin
 These foundations are design to the findings and recommendations in the site specific Geotech report.



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Renee Mau
 Lot 38
 Belfast Development
 Belfast, Christchurch

Job Number:
170030
 Original Plan:
Kakariki 168

Sheet Name:
SETOUT DIMENSIONS
 Sales: V Bhatia Drawn: M Glynn QS: W Xian Print Date: 4/08/2023 Scale: 1:100 @ A3

CONSENT PLANS

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Approved Building Consent Document
9/2023 Maher, Kevin
0-20mm max as per NZBC E2/AST.
W/C location indicated on plan has assumed
a 140mm offset from internal frame line,
please consult manufacturer's documentation
to confirm offset.

22/08/2023 to confirm offset. Contractor to consult manufacturer's Maher, Kevin instructions before proceeding.

Maher, Kevin
facturer's

documentation to determine the correct location for all wastes positioned through floor slabs.
Earth bar to be bonded to the reinforcing

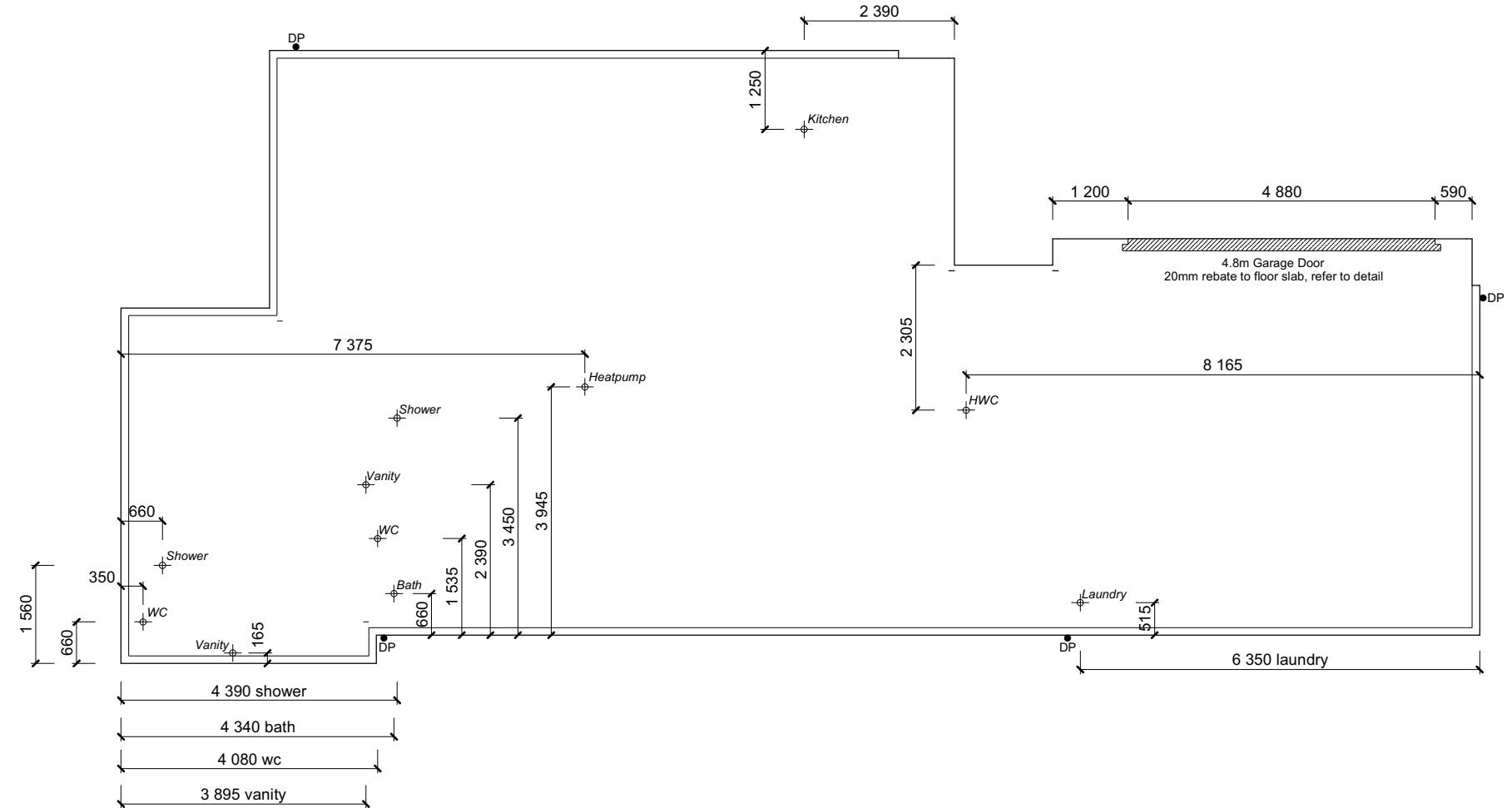
Earth bar to be bonded to the reinforcing mesh
Refer to Truss design for exact location of slab thickenings

All reinforcing is to be Ductility Class E, in accordance with NZS 4671.
All concrete to comply with NZS3604:2011 Section 4 Durability Clause 4.5.2.

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

**FFL +1.575m
(+225mm min above natural ground)
Provide a site scrape to +1.350m where needed**

**Refer to Engineers
Foundation Design**



Amendment #1

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Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch

Job Number:
170030

**Original Plan:
*Kakariki 168***

Sheet Name:

FOUNDATION PLAN

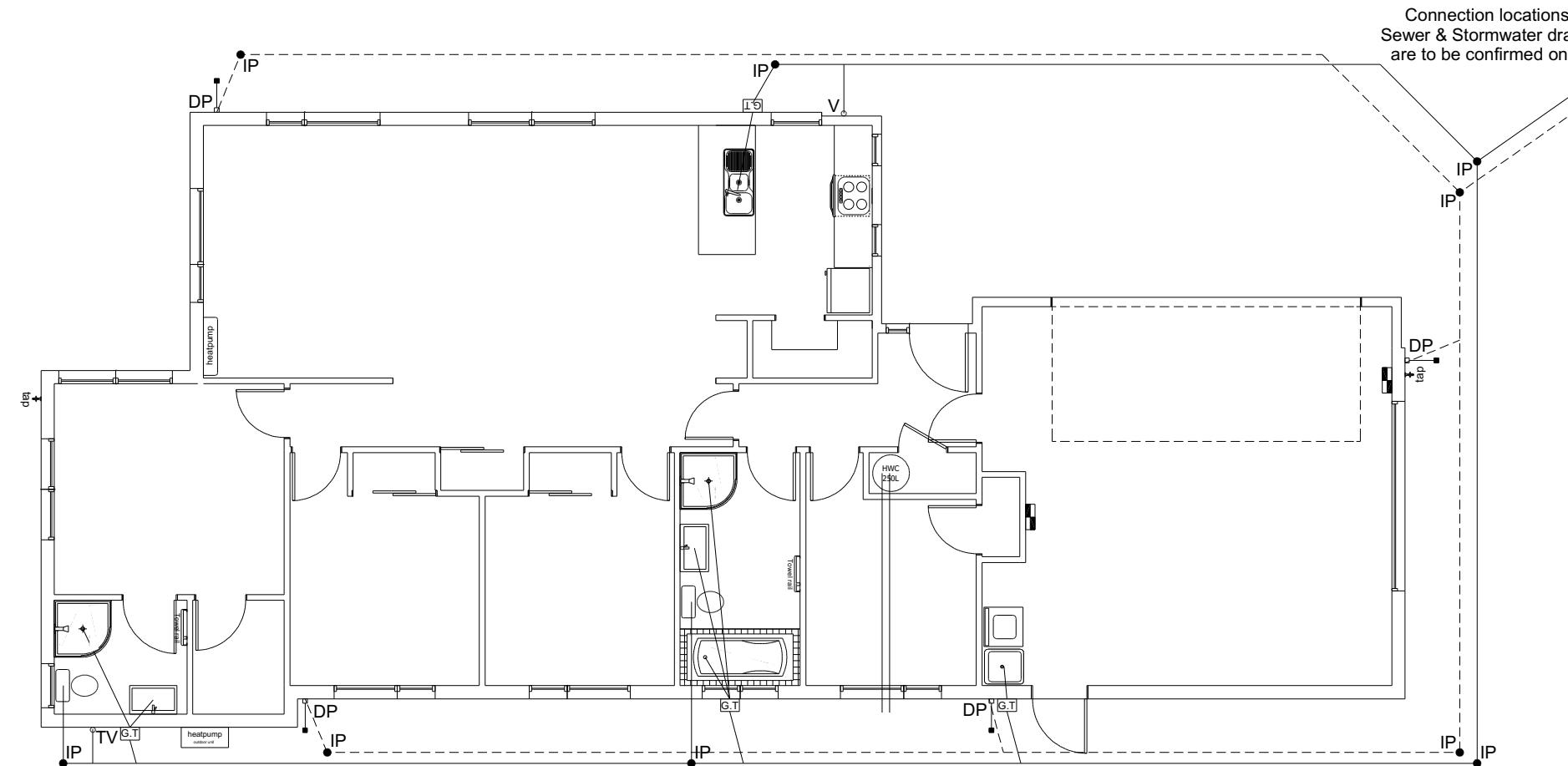
CONSENT PLANS

| | |
|--------------------|--|
| Plumbing Schedule | NZBC G13 |
| Kitchen | Ø50mm @1:40 (3 discharge units) |
| Sink: | Ø40mm @ 1:40 (1 discharge unit) |
| Bathrooms | Ø40mm @1:40 (4 discharge units) |
| Vanity: | Ø100mm @1:40 (4 discharge units) |
| Shower: | Ø40mm @1:30 (5 discharge units) |
| Bath: | Ø100mm @1:40 (4 discharge units) |
| WC: | Ø40mm @1:30 (5 discharge units) |
| Laundry Sink: | NZBC G13 |
| Drainage Schedule | Ø100mm @1:60 |
| Main Foulwater | Ø100mm @1:60 (1:120max) |
| Vented Drain | Ø80mm |
| Stormwater Drain | Ø50mm |
| Terminal Vent | Drain over GT |
| Vent | Overflow Relief Gully |
| Heatpump | min 20mm Drain over GT |
| ORG | HWC: Safe tray to HWC with 50mm overflow drain to exterior to comply with G12/AS1. |
| Hot water Cylinder | |

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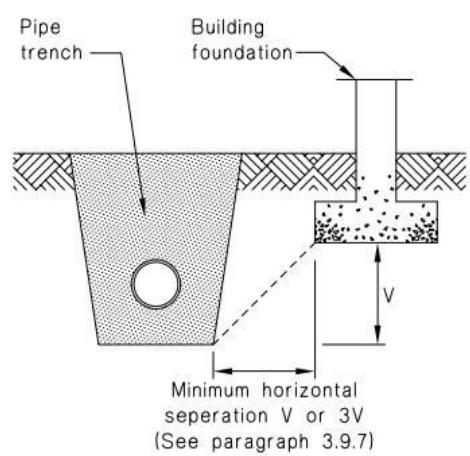
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Maher, Kevin



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

Figure 14: Relationship of Pipe Trench to Building Foundation
Amendment #1
Paragraph 3.9.7



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Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch

Job Number:
170030

Original Plan:
Kakariki 168

Sheet Name:
DRAINAGE PLAN

Sales:
V Bhatia

Drawn:
M Glynn

QS:
W Xian

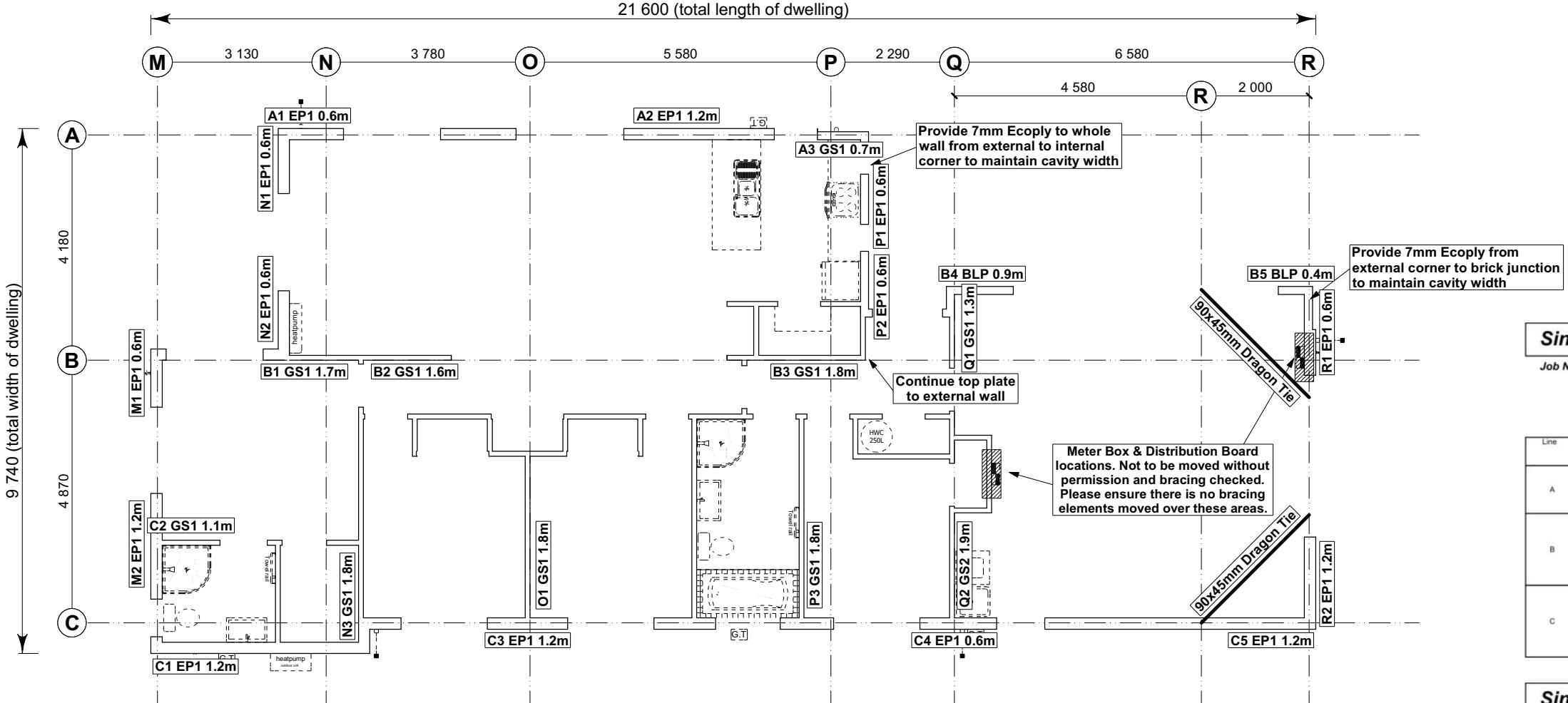
Print Date:
4/08/2023

Scale:
1:100 @ A3

CONSENT PLANS

| No. | Date: | Reason: |
|-----|------------|-----------------------|
| 1 | 10-11-2021 | Initial Consent Plans |
| 2 | 04-08-2023 | Revised Consent Plans |

Sheet No.:
10
of 23 sheets



Single Level Along Resistance Sheet

Job Name: RKG Developments Ltd.

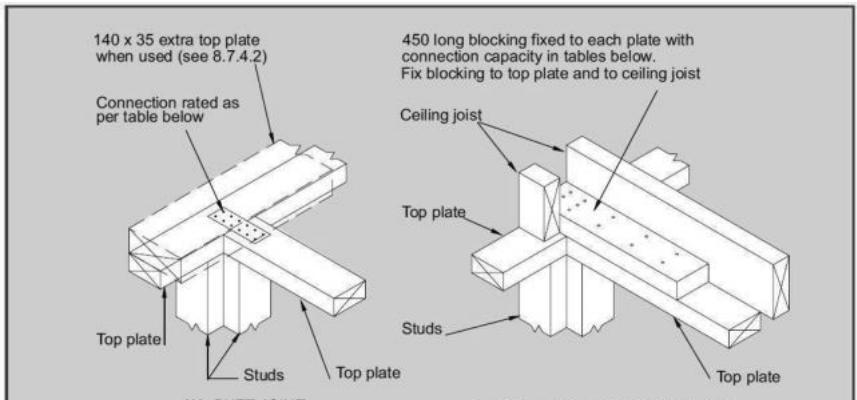
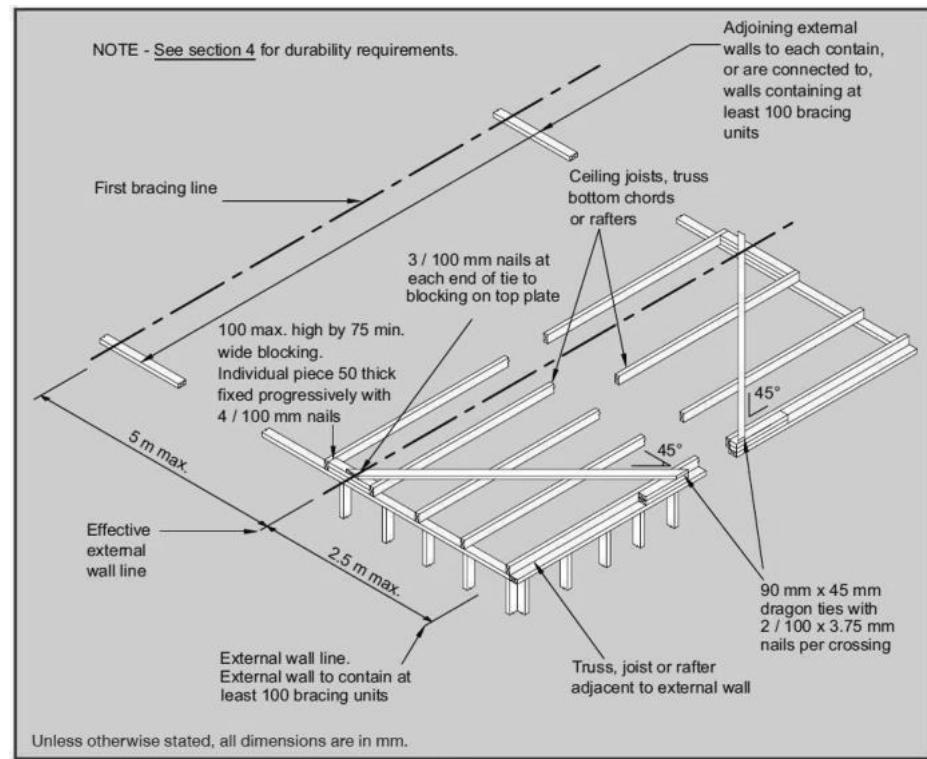
| Line | Element | Length (m) | Angle (degrees) | Stud Ht. (m) | Type | Supplier | Wind (BuS) | EQ (BuS) | Wind | EQ |
|------|---------|------------|-----------------|--------------|---------|----------|------------|----------|------|----|
| A | 1 | 0.60 | | 2.55 | EP1 0.6 | Ecopy® | 54 | 59 | | |
| | 2 | 1.20 | | 2.55 | EP1 1.2 | Ecopy® | 136 | 152 | | |
| | 3 | 0.70 | | 2.55 | GS1-N | GIB® | 39 | 39 | | |
| B | 1 | 1.70 | | 2.4 | GS1-N | GIB® | 117 | 102 | | |
| | 2 | 1.60 | | 2.4 | GS1-N | GIB® | 110 | 96 | | |
| | 3 | 1.80 | | 2.4 | GS1-N | GIB® | 124 | 108 | | |
| | 4 | 0.90 | | 2.4 | BLP-H | GIB® | 135 | 135 | | |
| | 5 | 0.40 | | 2.4 | BLP-H | GIB® | 48 | 54 | | |
| C | 1 | 1.20 | | 2.2 | EP1 1.2 | Ecopy® | 144 | 162 | | |
| | 2 | 1.10 | | 2.4 | GS1-N | GIB® | 74 | 66 | | |
| | 3 | 1.20 | | 2.4 | EP1 1.2 | Ecopy® | 144 | 162 | | |
| | 4 | 0.60 | | 2.4 | EP1 0.6 | Ecopy® | 57 | 63 | | |
| | 5 | 1.20 | | 2.4 | EP1 1.2 | Ecopy® | 144 | 162 | | |
| | | | | | | | 563 OK | 615 OK | | |

Single Level Across Resistance Sheet

Job Name: RKG Developments Ltd.

| Line | Element | Length (m) | Angle (degrees) | Stud Ht. (m) | Type | Supplier | Wind (BuS) | EQ (BuS) | Wind | EQ |
|------|---------|------------|-----------------|--------------|---------|----------|------------|----------|------|----|
| M | 1 | 0.60 | | 2.4 | EP1 0.6 | Ecopy® | 57 | 63 | | |
| | 2 | 1.20 | | 2.4 | EP1 1.2 | Ecopy® | 144 | 162 | | |
| N | 1 | 0.60 | | 2.55 | EP1 0.6 | Ecopy® | 54 | 59 | | |
| | 2 | 0.60 | | 2.55 | EP1 0.6 | Ecopy® | 54 | 59 | | |
| | 3 | 1.80 | | 2.4 | GS1-N | GIB® | 124 | 108 | | |
| O | 1 | 1.80 | | 2.4 | GS1-N | GIB® | 124 | 108 | | |
| | 2 | 0.60 | | 2.55 | EP1 0.6 | Ecopy® | 54 | 59 | | |
| P | 1 | 0.60 | | 2.55 | EP1 0.6 | Ecopy® | 54 | 59 | | |
| | 2 | 0.60 | | 2.55 | EP1 0.6 | Ecopy® | 54 | 59 | | |
| | 3 | 1.80 | | 2.4 | GS1-N | GIB® | 124 | 108 | | |
| Q | 1 | 1.30 | | 2.4 | GS1-N | GIB® | 90 | 78 | | |
| | 2 | 1.90 | | 2.4 | GS2-N | GIB® | 186 | 163 | | |
| R | 1 | 0.60 | | 2.4 | EP1 0.6 | Ecopy® | 57 | 63 | | |
| | 2 | 1.20 | | 2.4 | EP1 1.2 | Ecopy® | 144 | 162 | | |
| | | | | | | | 201 OK | 225 OK | | |

Amendment #1



| Capacities of metal plate joints | | Capacities of nailed joints | |
|----------------------------------|---------------------------------|-----------------------------|----------------------------------|
| Up to 3 kN | 3 / 30 x 3.15 mm nails per side | Up to 3 kN | 3 / 100 x 3.75 mm nails per side |
| Up to 6 kN | 6 / 30 x 3.15 mm nails per side | Up to 6 kN | 6 / 100 x 3.75 mm nails per side |

NOTE - See section 4 for durability requirements.

Unless otherwise stated, all dimensions are in mm.

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

8.7.3.4
Each wall that contains one or more wall bracing elements shall be connected at the top plate level, either directly, or through a framing member in the line of the wall, to external walls at right angles to it. Top plate fixing(s) of the capacity in tension or compression along the line of the wall bracing element are given as follows:

- For each wall containing wall bracing elements with a total bracing capacity of not more than 125 bracing units: to at least one such external wall by a fixing as shown in figure 8.16 of 6 kN capacity;
- For each wall containing wall bracing elements with a total bracing capacity of not more than 250 bracing units: to at least 2 external walls by fixings as shown in figure 8.16 each of 6 kN capacity;
- For each wall containing wall bracing elements with a total bracing capacity of more than 250 bracing units: to at least 2 external walls by fixings as shown in figure 8.16 each having a rating of not less than 2.4 kN per 100 bracing units.

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



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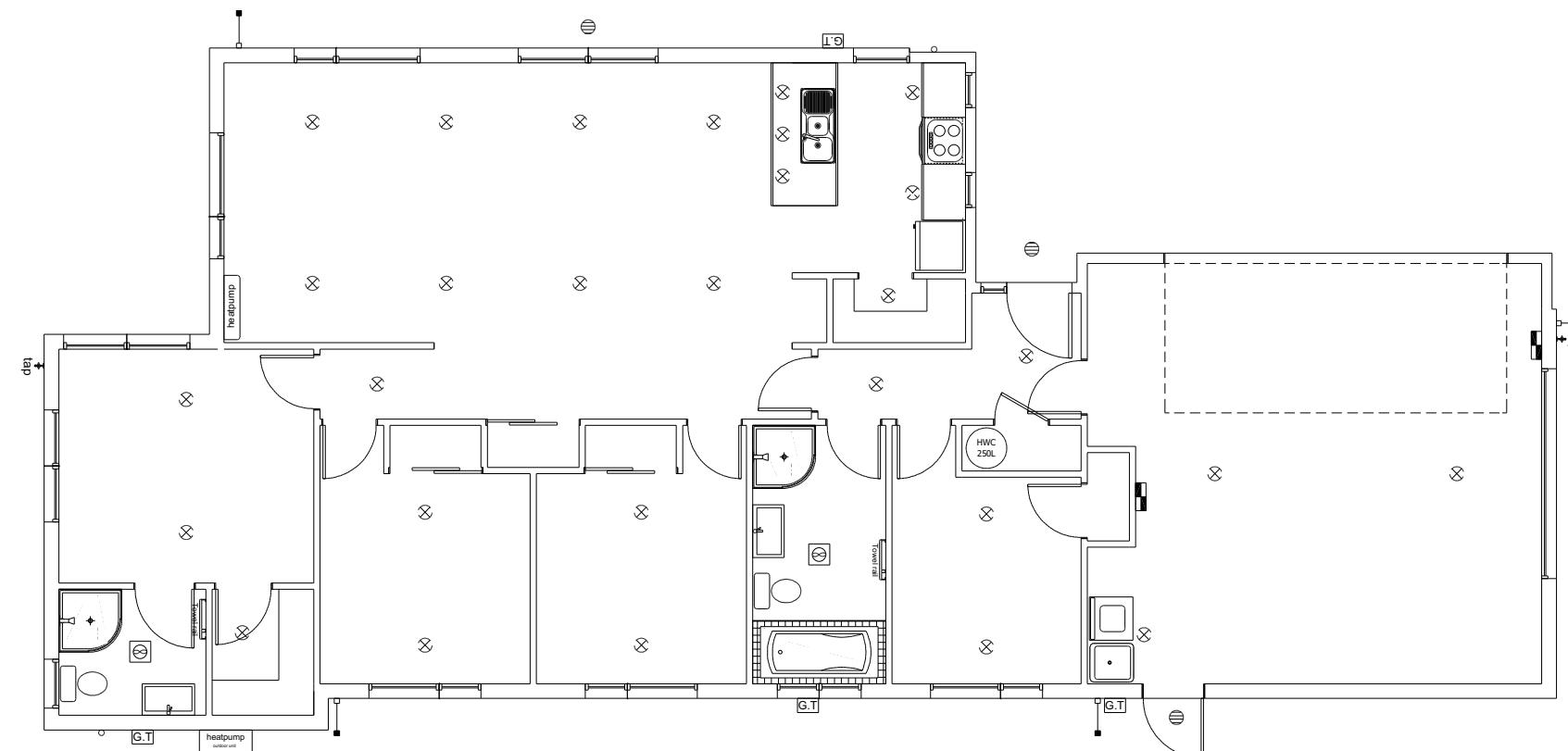
Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch

Job Number:
170030
Original Plan:
Kakariki 168
Sheet Name:
BRACING PLAN

Sales: **V Bhatia** Drawn: **M Glynn** QS: **W Xian**
Print Date: **4/08/2023** Scale: **1:100 @ A3**

CONSENT PLANS
No. Date Reason:
1 10-11-2021 Initial Consent Plans
2 04-08-2023 Revised Consent Plans

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

Amendment #1

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

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Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch

Job Number:
170030

Original Plan:
Kakariki 168

Sheet Name:
LIGHTING PLAN

Sales: V Bhatia Drawn: M Glynn QS: W Xian Print Date: 4/08/2023 Scale: 1:100 @ A3

CONSENT PLANS

| No. | Date: | Reason: |
|-----|------------|-----------------------|
| 1 | 10-11-2021 | Initial Consent Plans |
| 2 | 04-08-2023 | Revised Consent Plans |

| | |
|--------------|-----------|
| Sheet No.: | 12 |
| of 23 sheets | |

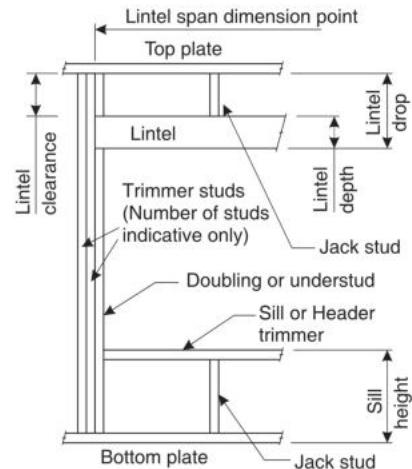
LINTEL FIXING SCHEDULE

ALTERNATIVE TO TABLE 8.14 & FIGURE 8.12

NZS 3604:2011

NOTE:

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

DEFINITIONS

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

NOTES:

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

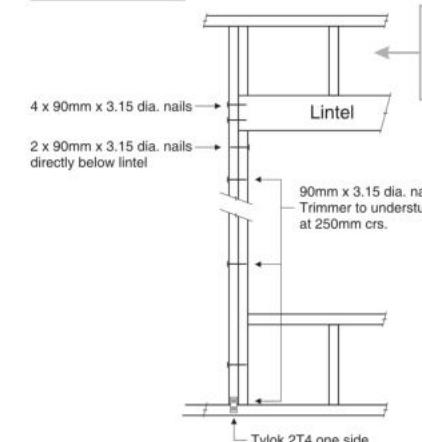
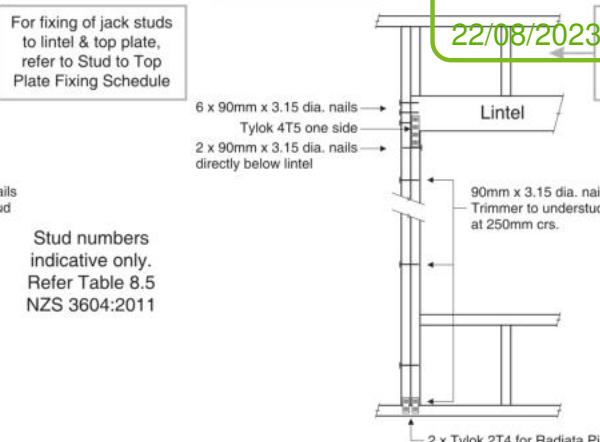
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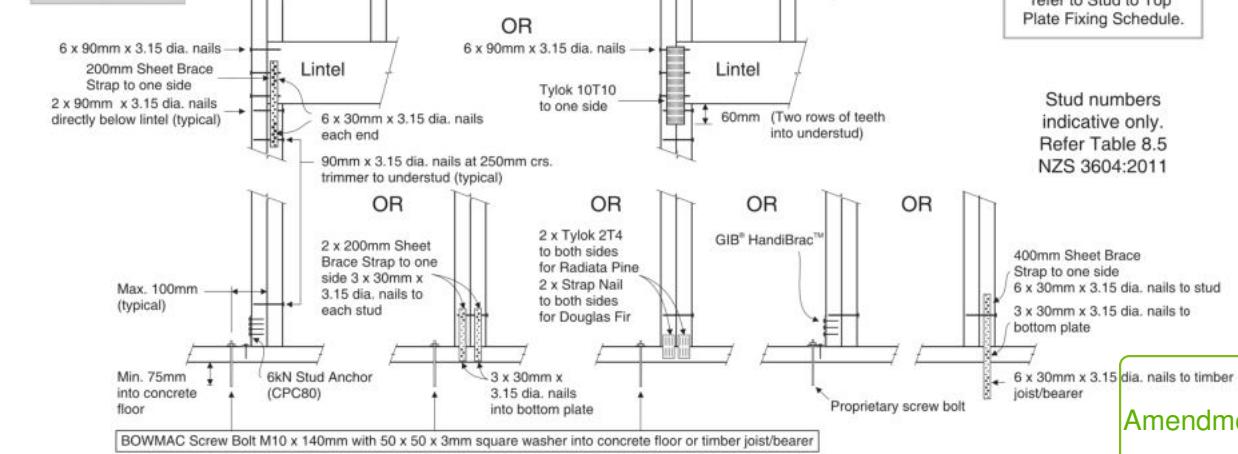
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Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch

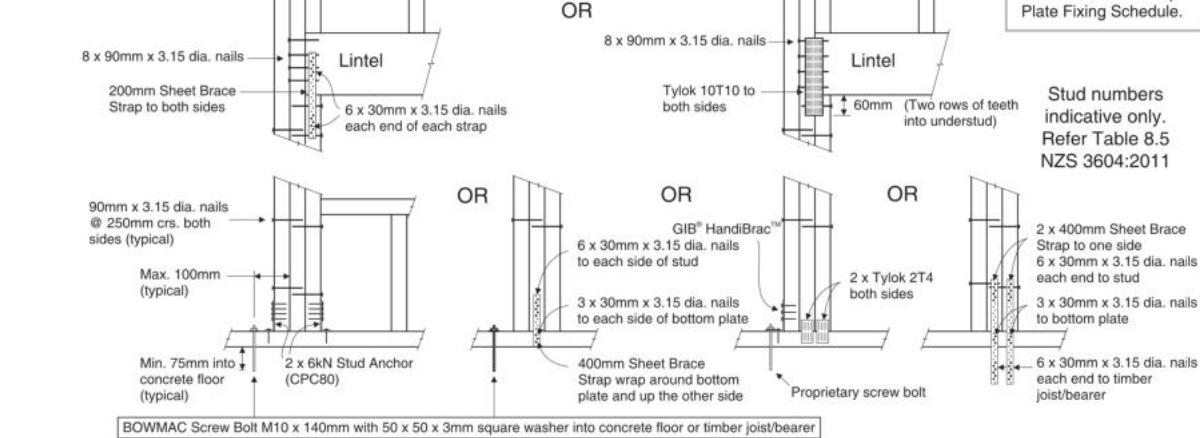
LINTEL FIXING OPTIONS**TYPE E**
1.4kN**TYPE F**
4.0kN

Christchurch City Council
BCN/2022/2323
Approved Building Consent Document

22/08/2023 Maher, Kevin
For fixing of jack studs to lintel & top plate, refer to Stud to Top Plate Fixing Schedule

TYPE G
7.5kN

Amendment #1

TYPE H
13.5kN

For fixing of jack studs to lintel & top plate, refer to Stud to Top Plate Fixing Schedule.

Stud numbers
indicative only.
Refer Table 8.5
NZS 3604:2011

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13
of 23 sheets

Christchurch City Council
BCN/2022/2323
Approved Building Consent Document

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08/2017

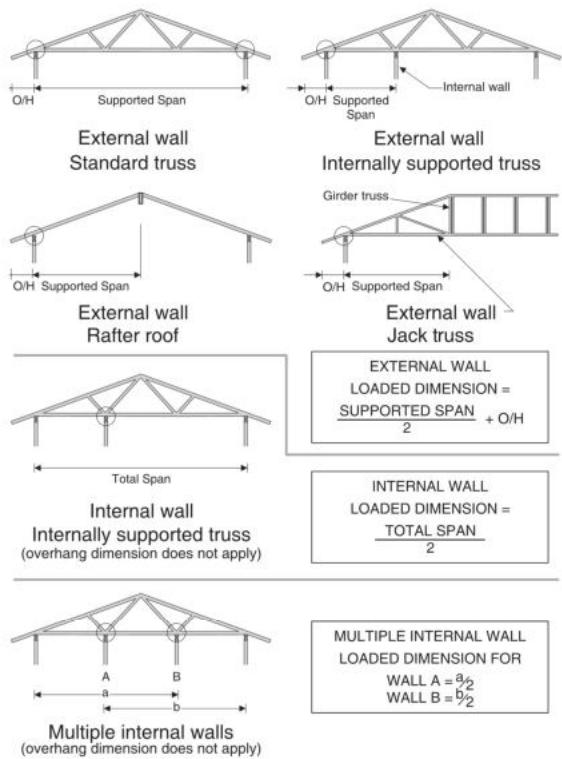
STUD TO TOP PLATE FIXING SCHEDULE

ALTERNATIVE TO TABLE 8.18 NZS 3604:2011

NOTE:

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

LOADED DIMENSION DEFINITION



FIXING SELECTION CHART

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

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

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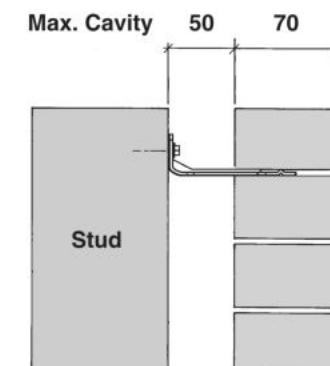
Renee Mau
 Lot 38
 Belfast Development
 Belfast, Christchurch

Job Number: **170030** Original Plan: **Kakariki 168** Sheet Name: **FRAMING DETAILS**
 Sales: **V Bhatia** Drawn: **M Glynn** QS: **W Xian** Print Date: **4/08/2023** Scale: **NTS @ A3**

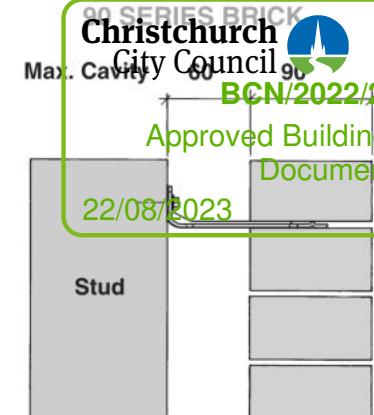
CONSENT PLANS
 No. **1** Date: **10-11-2021** Reason: **Initial Consent Plans**
 No. **2** Date: **04-08-2023** Reason: **Revised Consent Plans**

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 of 23 sheets

70 SERIES BRICK



Screw Tie Short
(85mm)



Screw Tie Long
(105mm)

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

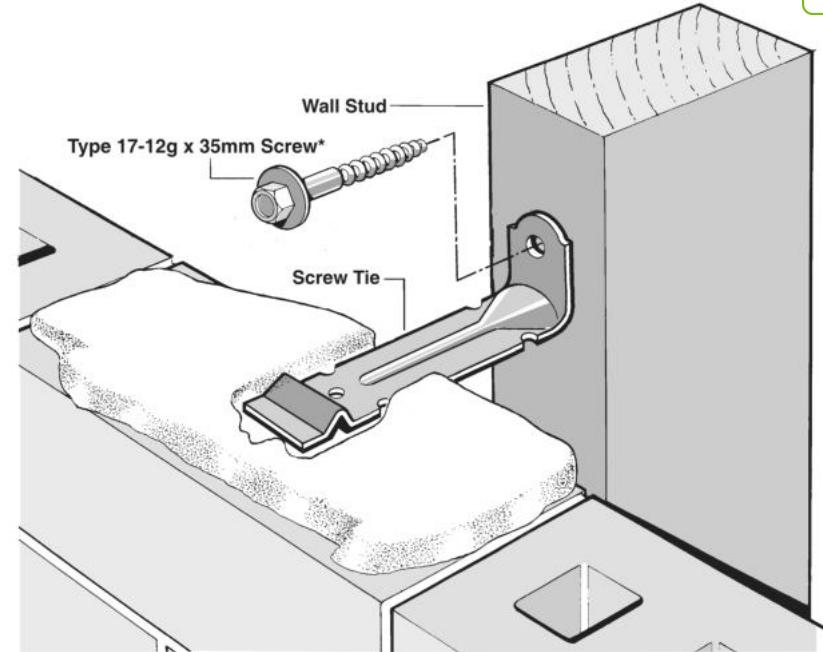
Material: 1.2mm NZCC-SD Hot Dip Galvanised Steel
 Screws: Type 17-12g x 35mm Hex Head Hot Dip Galvanised Screws
 Packed: 250 ties per box including screws

Also available in Stainless Steel Grade 316 for Zone D.

SCREW TIES FOR BRICK VENEER FIXING

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

Amendment #1



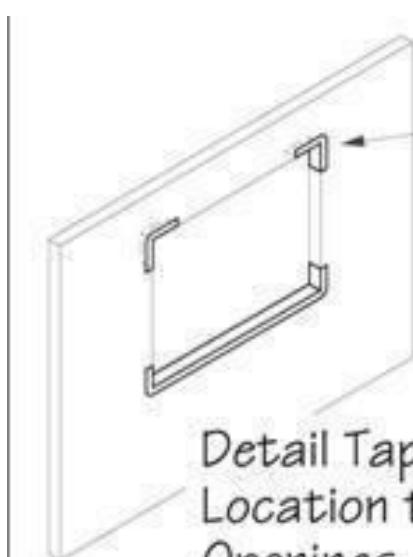
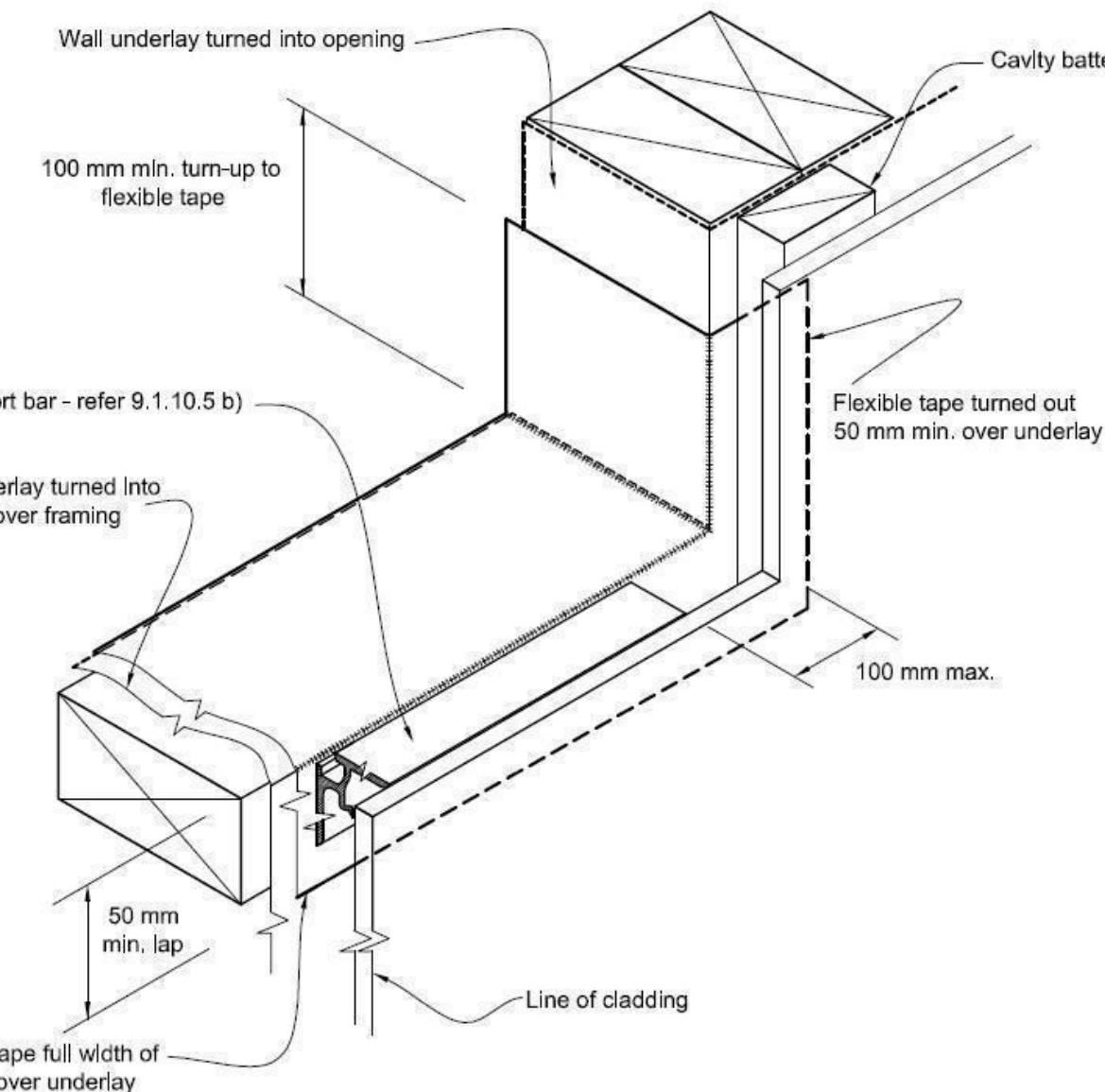
*NOTE:
 Use longer screws for fixing through Rigid Air Barrier (RAB). Maintain 35mm embedment in studs.

Figure 72B: General window and door opening with drainage cavity

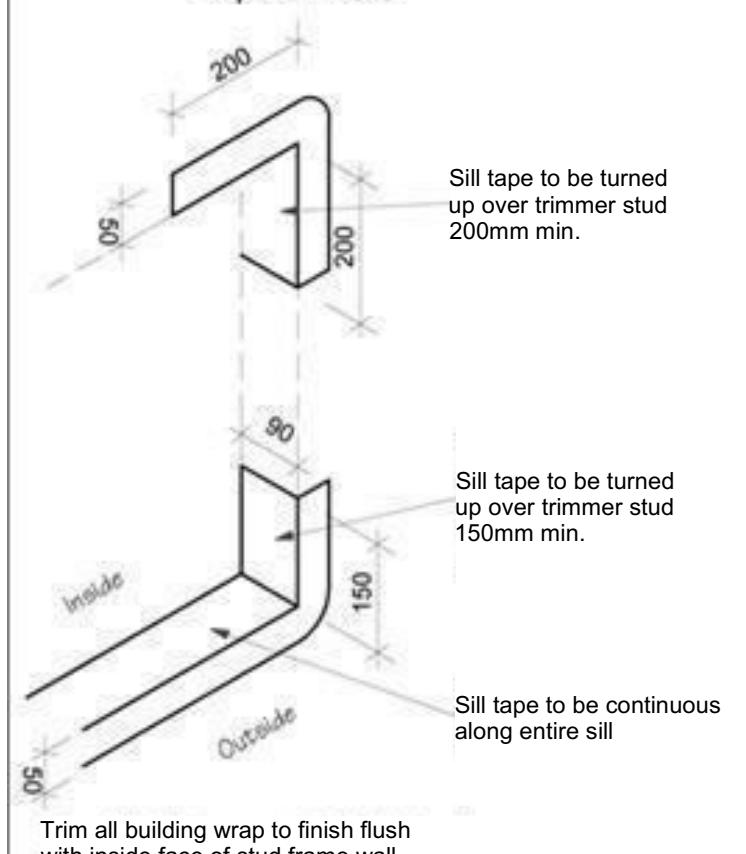
Paragraphs 9.1.5, 9.1.9.3, 9.1.10.2, Figures 73C, 76, 85, 86, 91, 99, 116 and 128

NOTE:

- (1) Detailed cladding omitted for clarity, refer to specific claddings.
- (2) Head to be treated similarly with continuous wall underlay and flexible tape at corners.
- (3) Refer individual cladding details for jamb flashings.



Where windows extend to eaves,
flashing tape is to be fixed prior to
ribbon board being fixed to framing.



Amendment #1

Sill Tape Flashing Detail

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Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch

Job Number:
170030

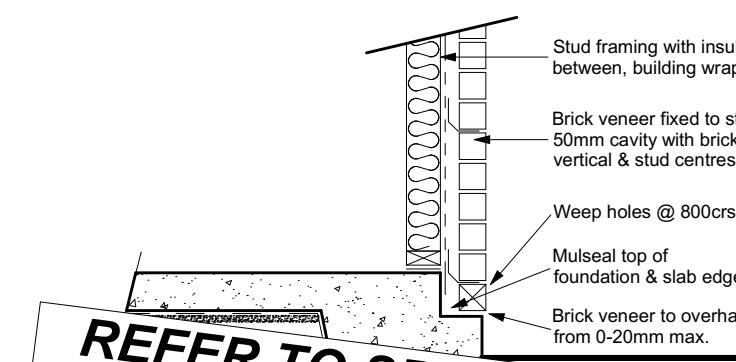
Original Plan:
Kakariki 168

Sheet Name:
CONSTRUCTION DETAILS

CONSENT PLANS

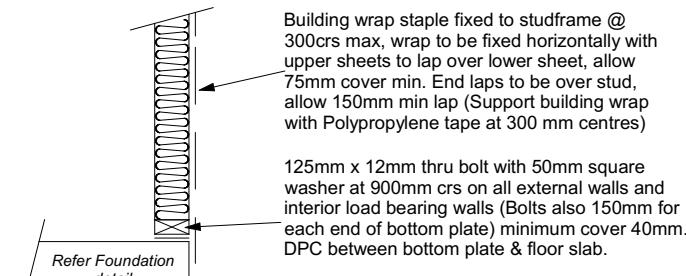
| | | |
|-----|------------|-----------------------|
| No. | Date: | Reason: |
| 1 | 10-11-2021 | Initial Consent Plans |
| 2 | 04-08-2023 | Revised Consent Plans |

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15
of 23 sheets



REFER TO SPECIFIC FOUNDATION DETAIL BY THE ENGINEER

Brick Veneer Foundation
Scale 1:20



Stud framing to slab
Scale 1:20

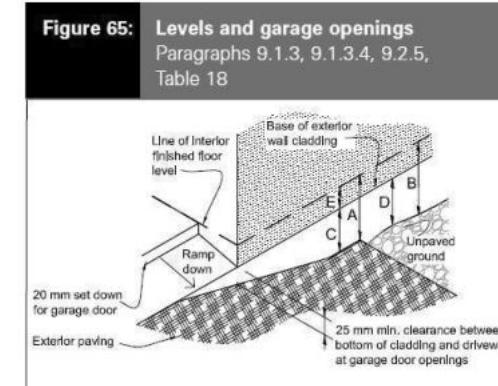
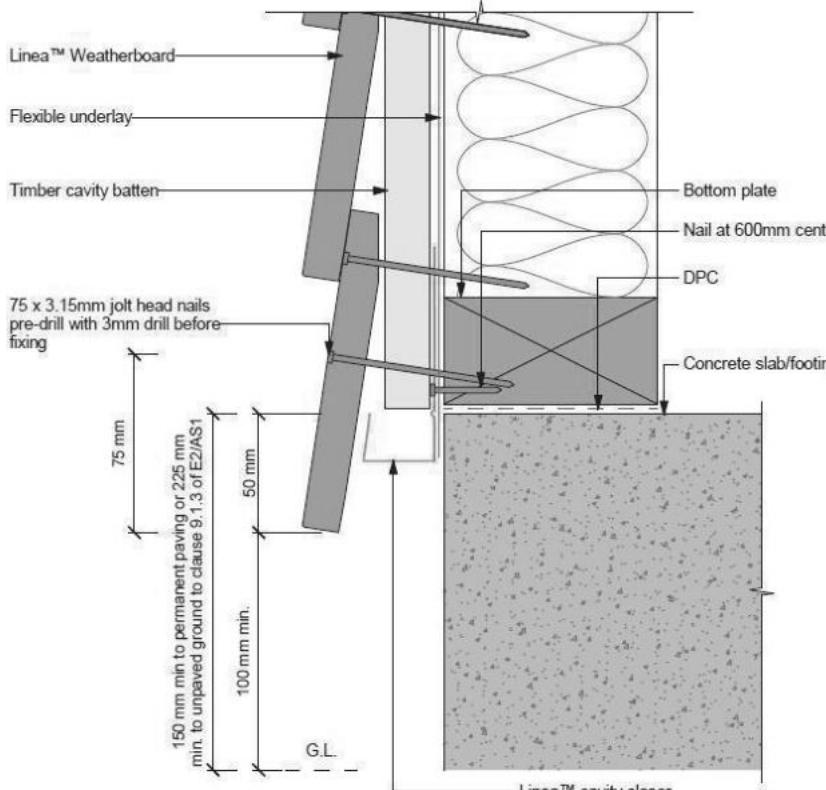
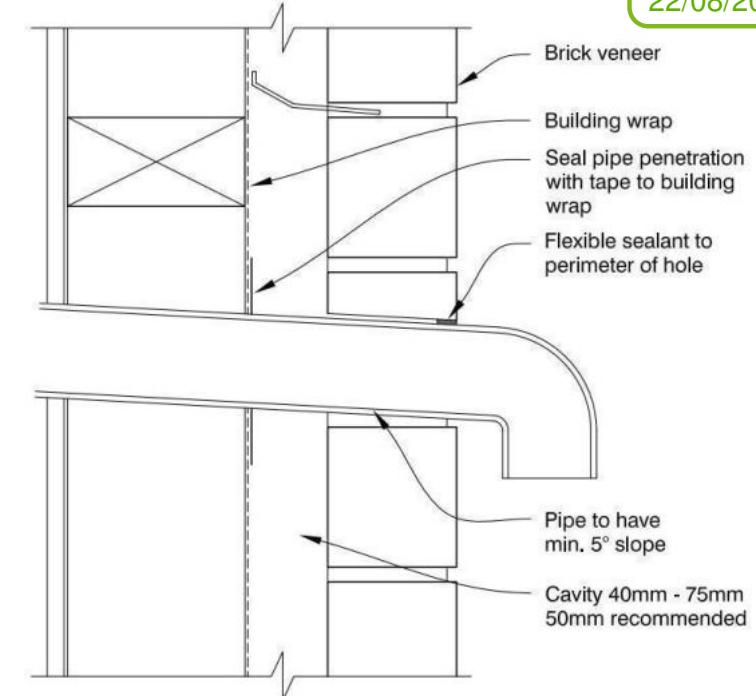


Table 18: Minimum clearances
Paragraphs 9.1.3, 9.1.3.1, 9.1.3.2, 9.1.3.3, 9.1.3.4, 9.1.3.5 and 9.2.7

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

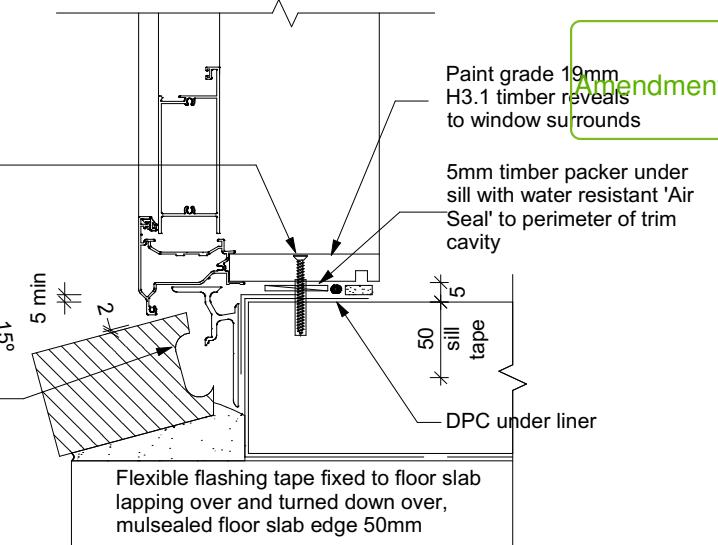
NOTE: 1) Refer to NZS 3604 for requirements.
2) Cladding to extend minimum 50 mm below bearer or lowest part of timber floor framing.



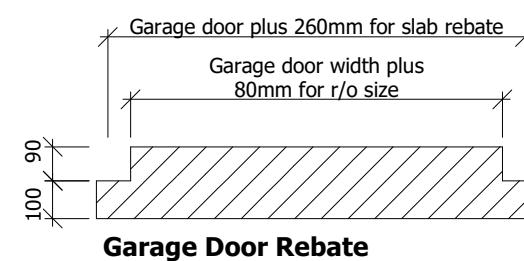
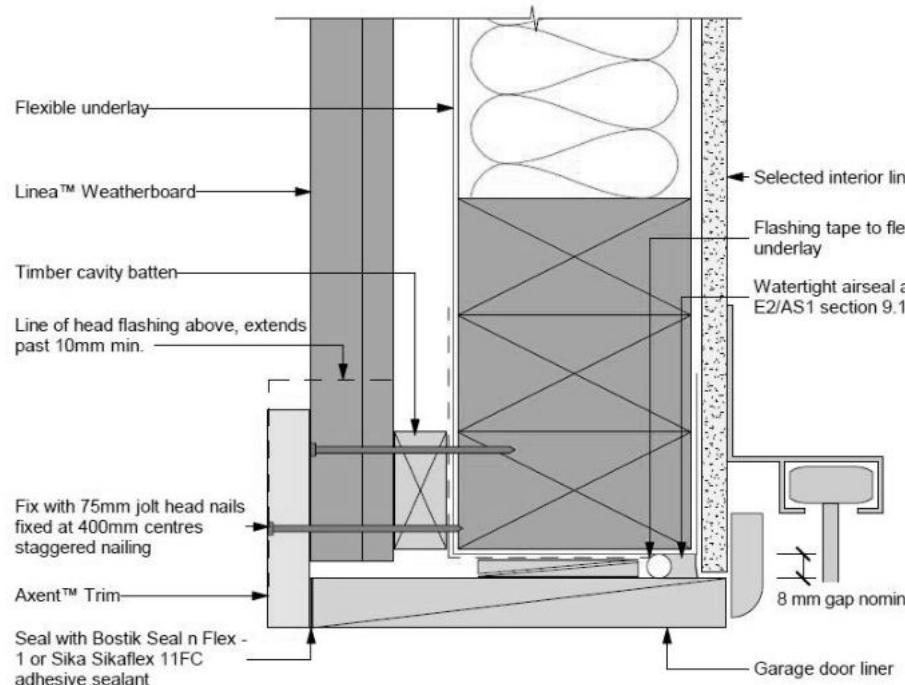
50mm screw fixing to window sill, no more than 150mm from all corners and then 450crs spacings, allow for extra fixings at mullions, transoms & door strikers, all screws driven below sill surface and filled and sanded prior to painting

Continuous ventilated support bar fixed to sill plate with 50mm screws, top face of bar to be fitted level & 5mm min above sill plate

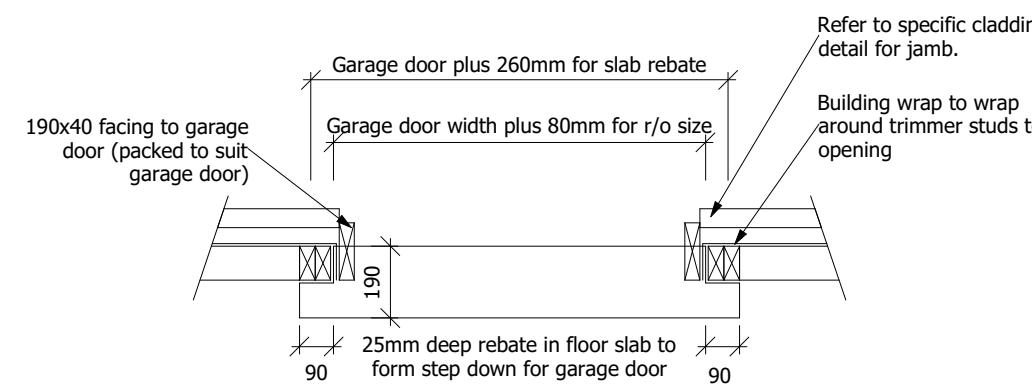
Coat bricks, if flat, with waterproofing agent



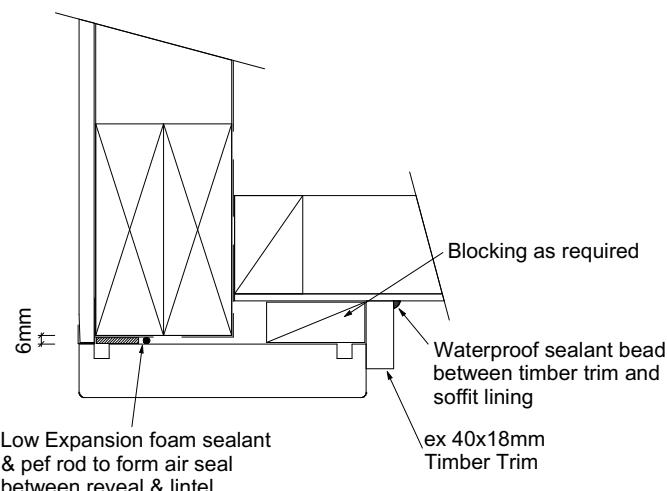
Door Sill to Slab Detail
Scale 1:20



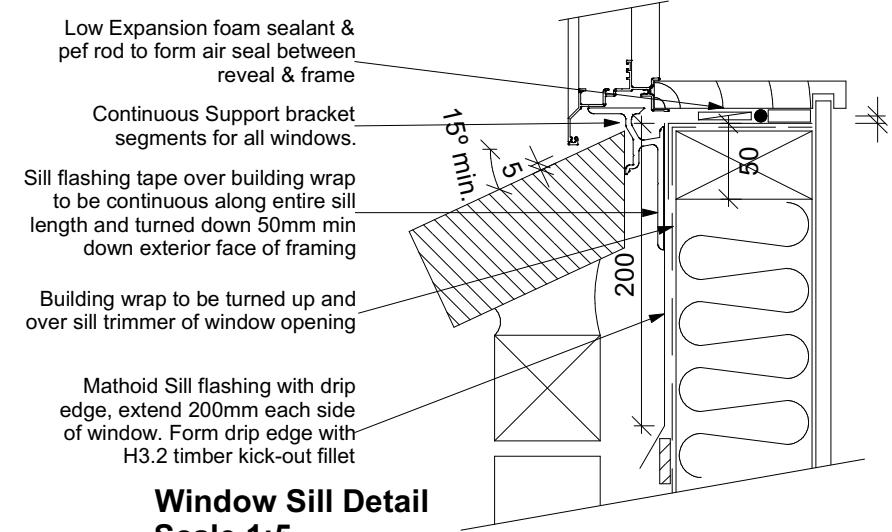
Garage Door Rebate
Scale 1:20



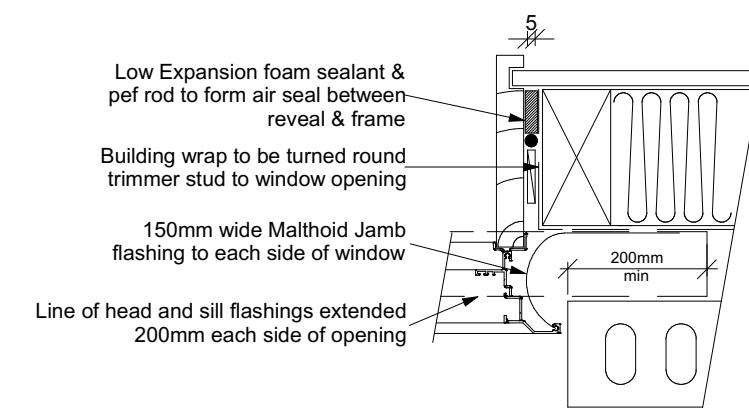
Garage Door Opening Detail
Scale 1:20



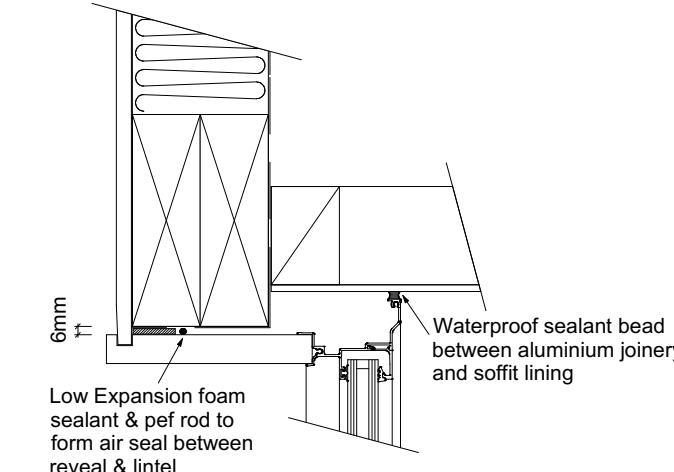
Garage Door Head to Soffit Detail
Scale 1:5



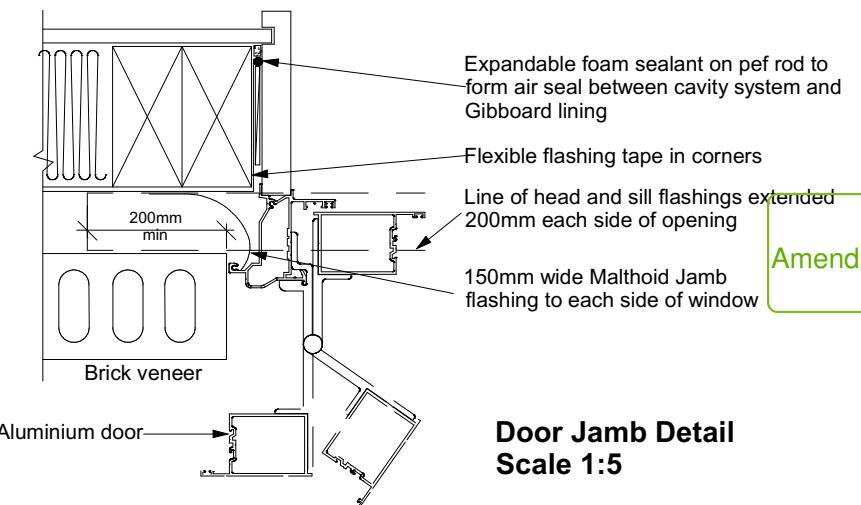
Window Sill Detail
Scale 1:5



Window Jamb Detail
Scale 1:5



Window Head to Soffit Detail
Scale 1:5



Door Jamb Detail
Scale 1:5

9.1.10.8 Attachments for windows and doors

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

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

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

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



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

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Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch

Job Number:
170030

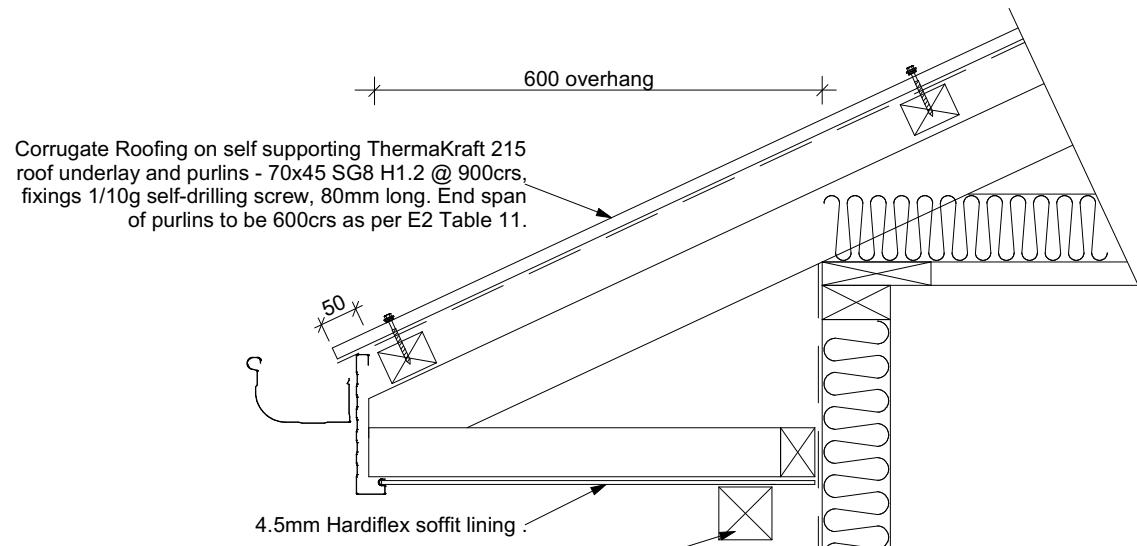
Original Plan:
Kakariki 168

Sheet Name:
CONSTRUCTION DETAILS

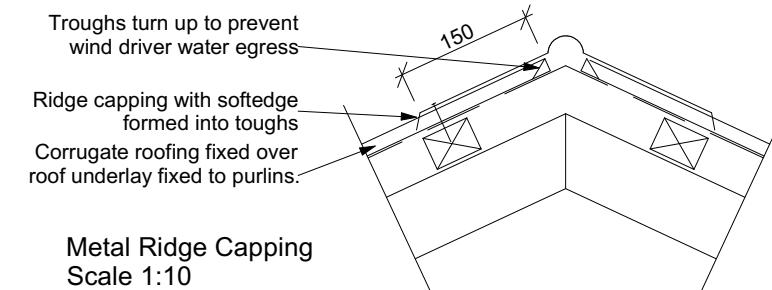
CONSENT PLANS

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| No. | Date: | Reason: |
| 1 | 10-11-2021 | Initial Consent Plans |
| 2 | 04-08-2023 | Revised Consent Plans |

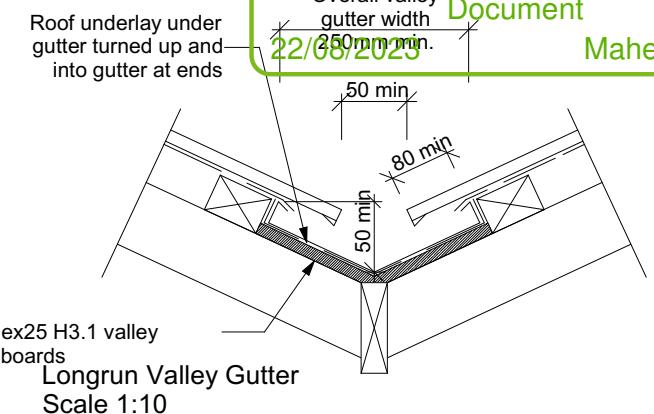
Sheet No.:
17
of 23 sheets



Eave Soffit Detail
Scale 1:10

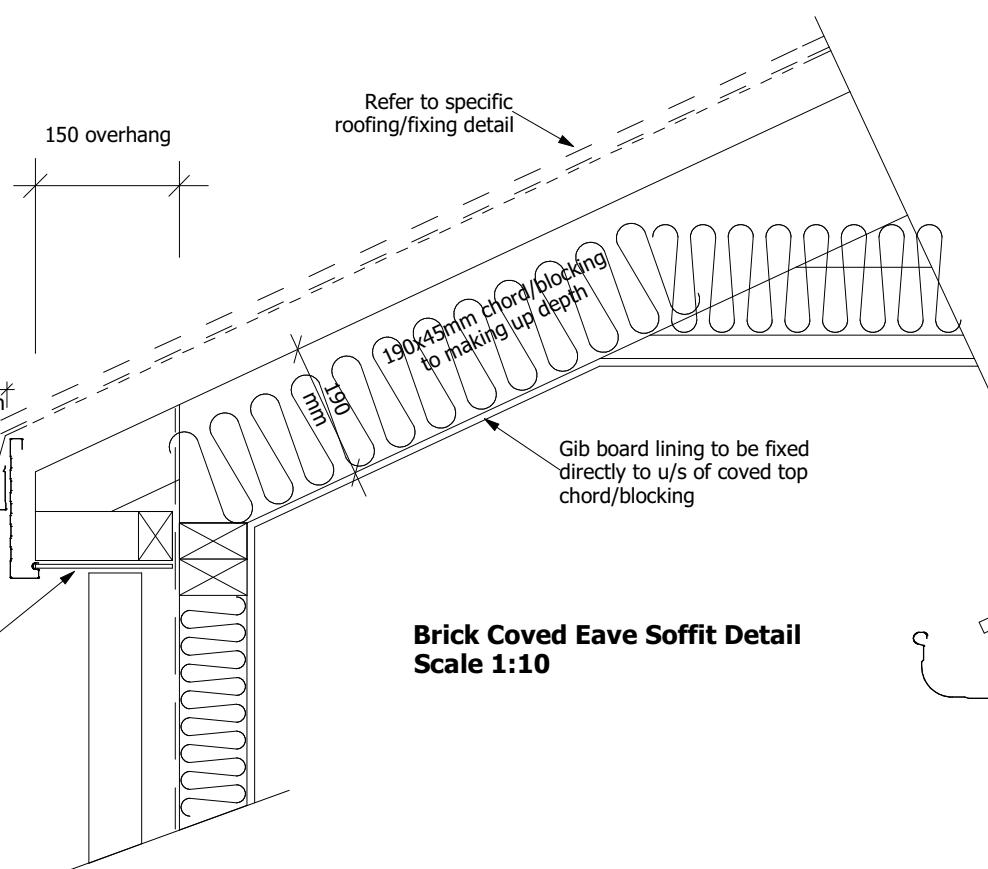


Metal Ridge Capping
Scale 1:10

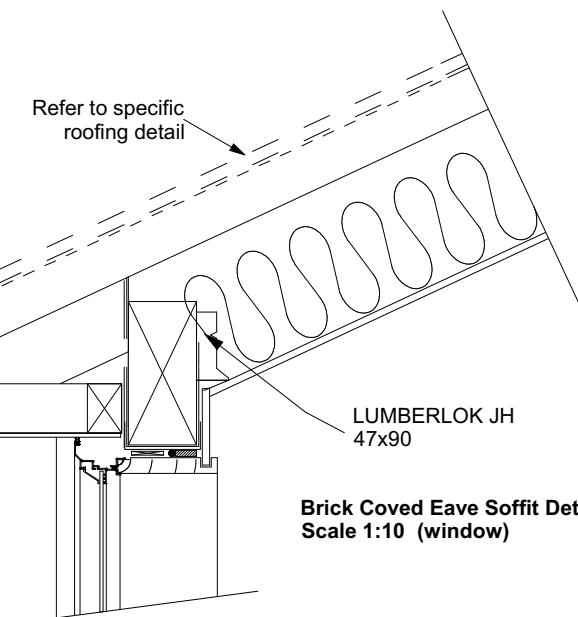
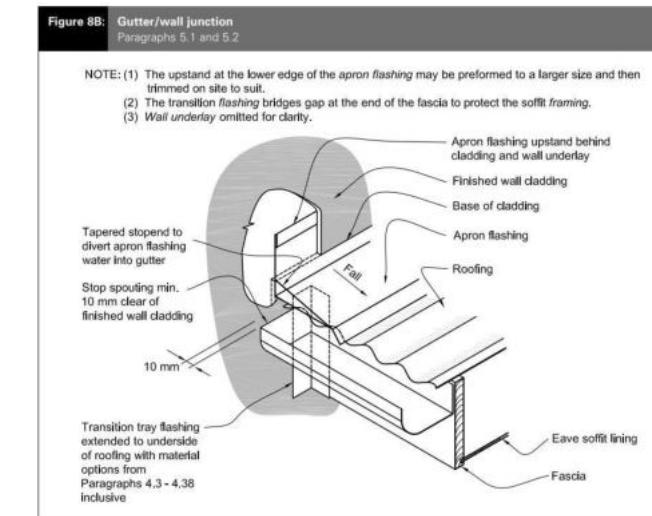


ex25 H3.1 valley boards
Longrun Valley Gutter
Scale 1:10

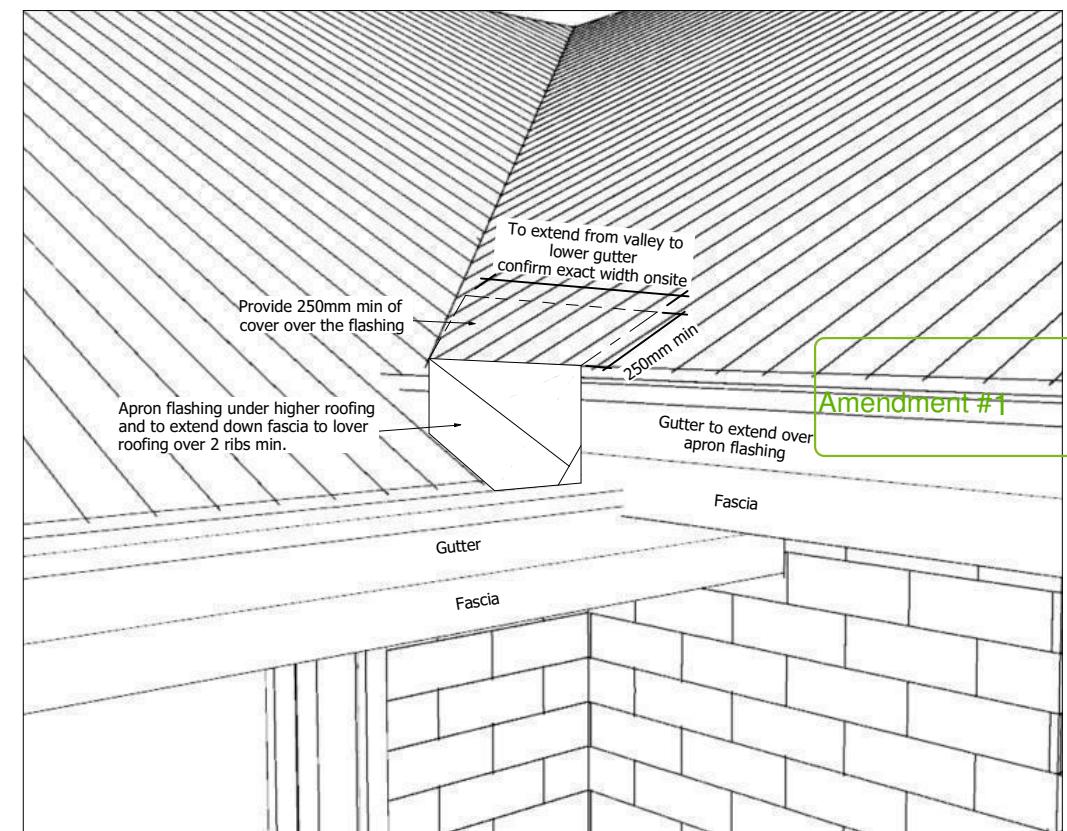
Building wrap staple fixed to studframe @ 300crs max, wrap to be fixed horizontally with upper sheets to lap over lower sheet, allow 75mm cover min. End laps to be over stud, allow 150mm min lap



Brick Coved Eave Soffit Detail
Scale 1:10



Brick Coved Eave Soffit Detail
Scale 1:10 (window)



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Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch

Job Number:
170030

Original Plan:
Kakariki 168

Sheet Name:
CONSTRUCTION DETAILS

CONSENT PLANS

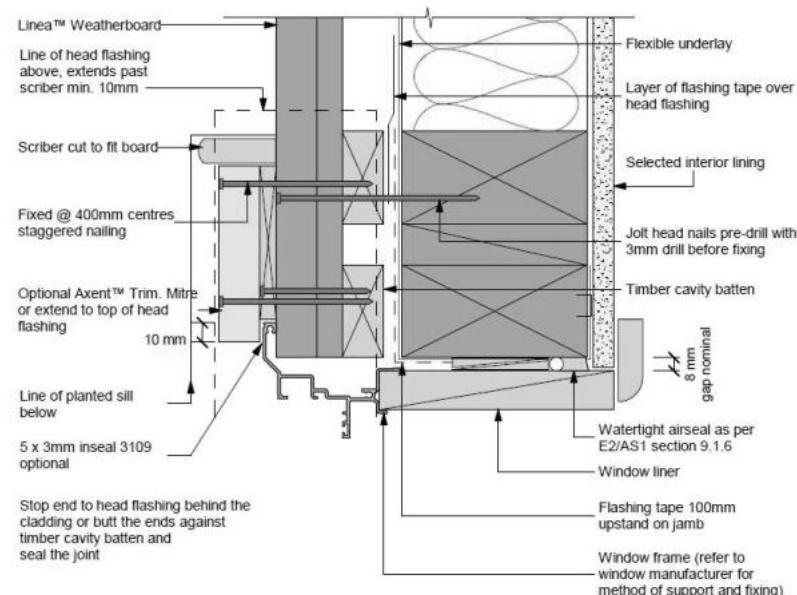
| No. | Date: | Reason: |
|-----|------------|-----------------------|
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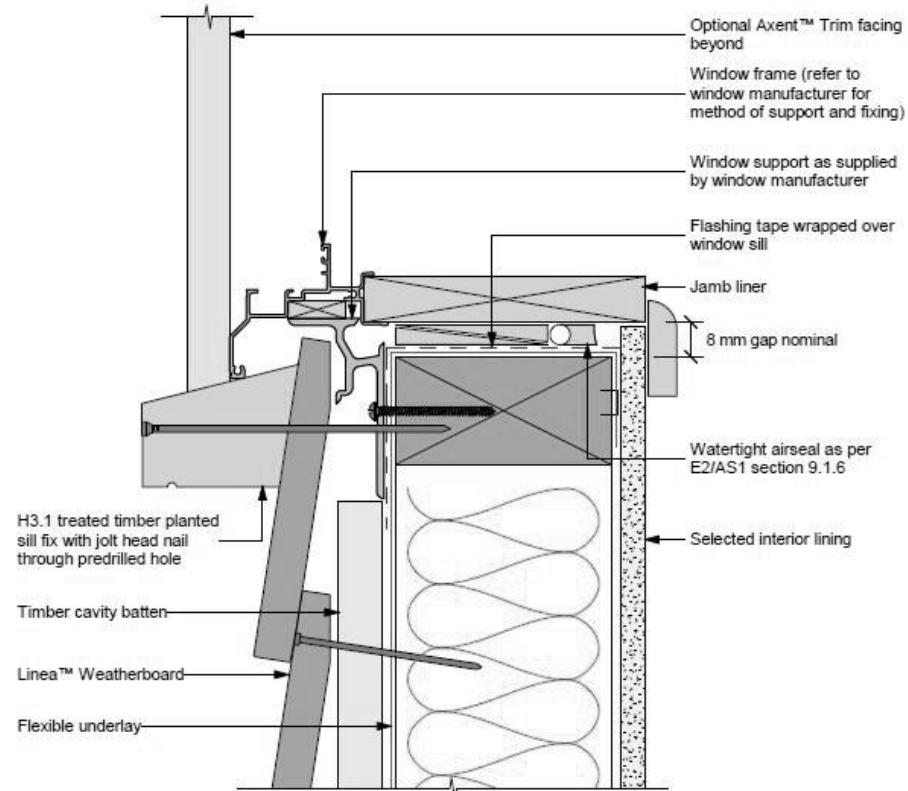


22/08/2023

Maher, Kevin



Note:
• Site cut edges to be primed



General notes for materials selection

1. Flashing materials must be selected based on environmental exposure, refer to NZS 3604 and Table 20 of NZBC E2/AS1
2. Flexible underlay must comply with acceptable solution E2/AS1
3. Flashing tape must have proven compatibility with the selected flexible underlay and other materials with which it comes into contact

Refer to the manufacturer or supplier for technical information for these materials

All dimensions are to be checked and confirmed prior to any construction

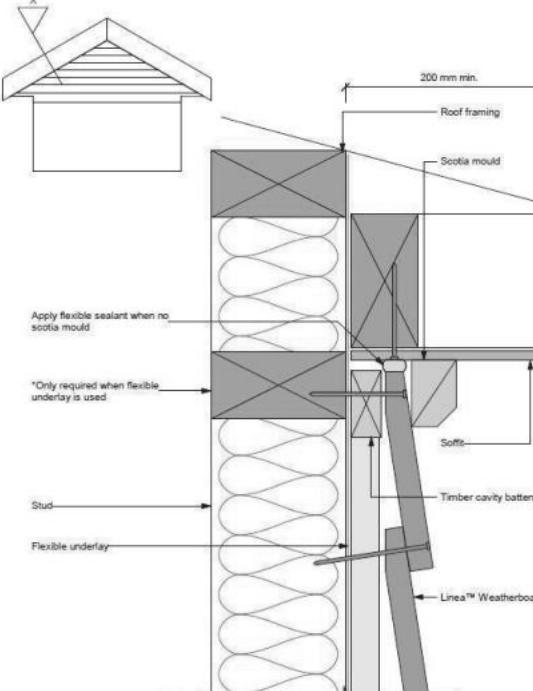
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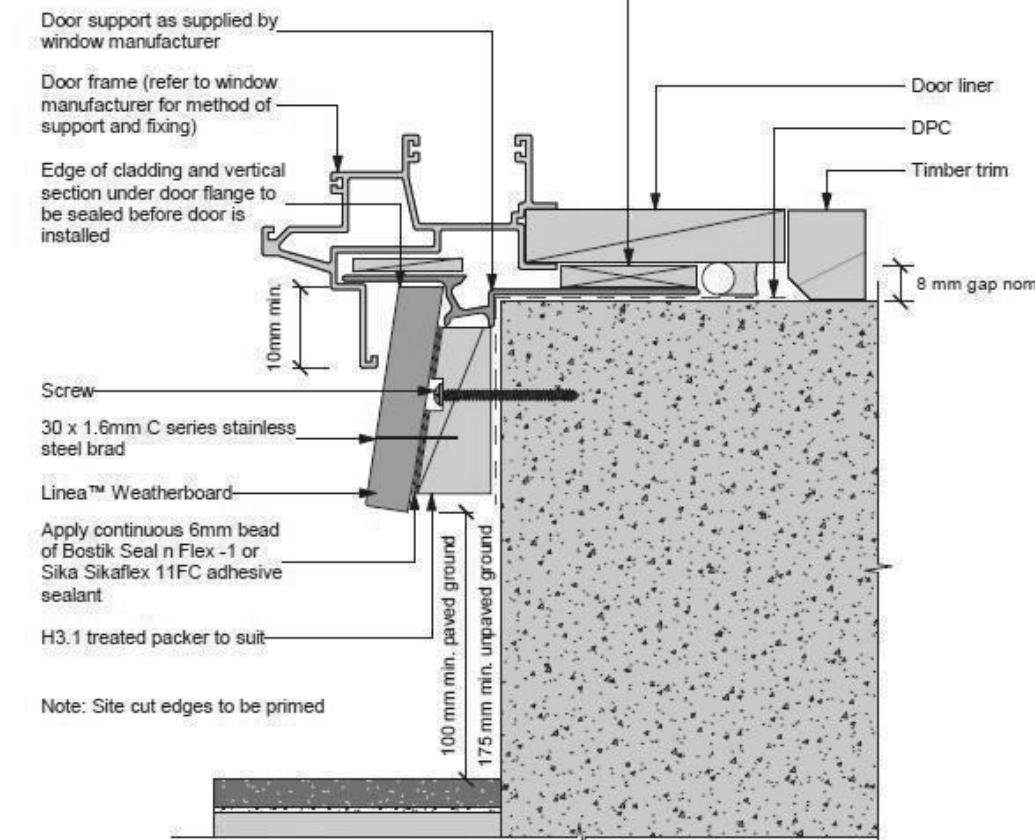
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Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch



Note:
Alternatively the scotia can be scribed and sealed to Linea™ Weatherboard and the soffit lining
For soffits more than 200mm the Linea™ Weatherboard can be neat cut and silicone sealed to angle of soffit

H3.1 treated timber packer to suit



Amendment #1

Refer to the manufacturer or supplier for technical information for these materials

General notes for materials selection

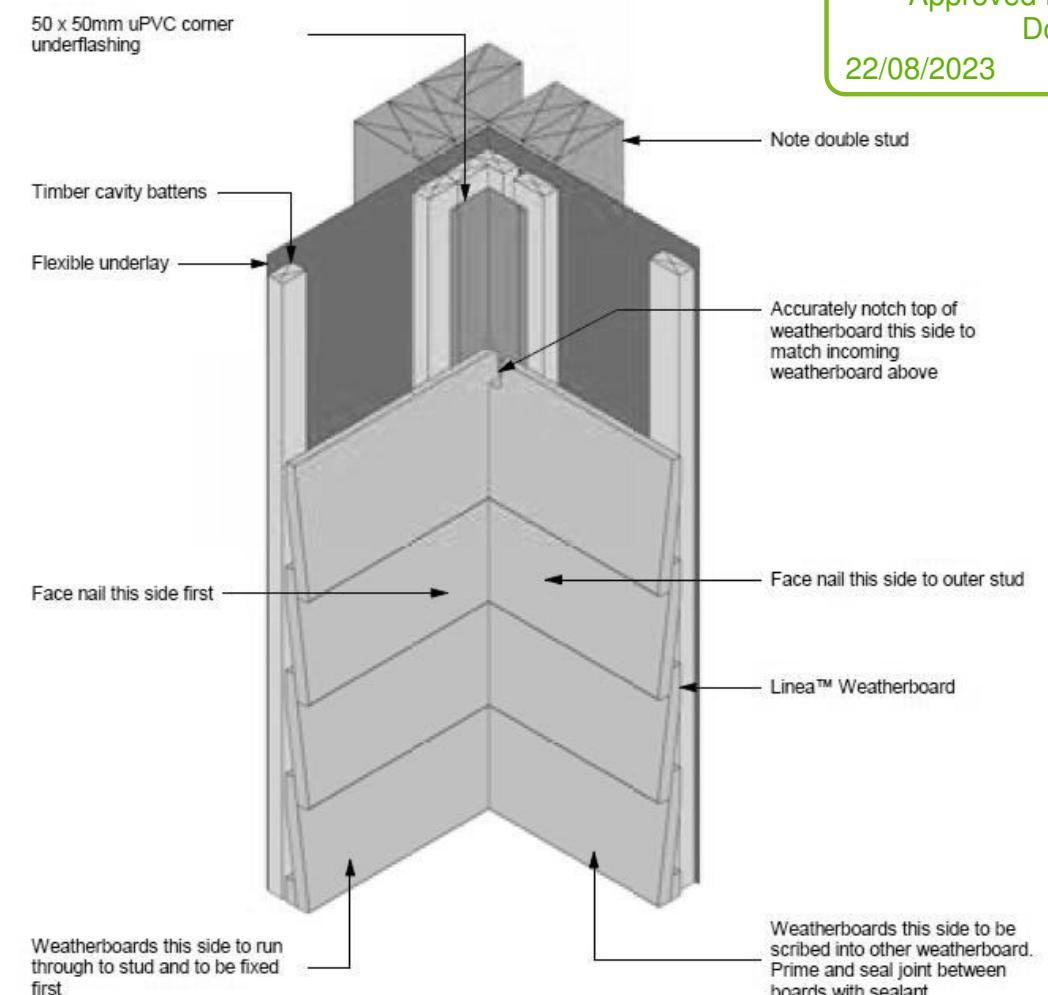
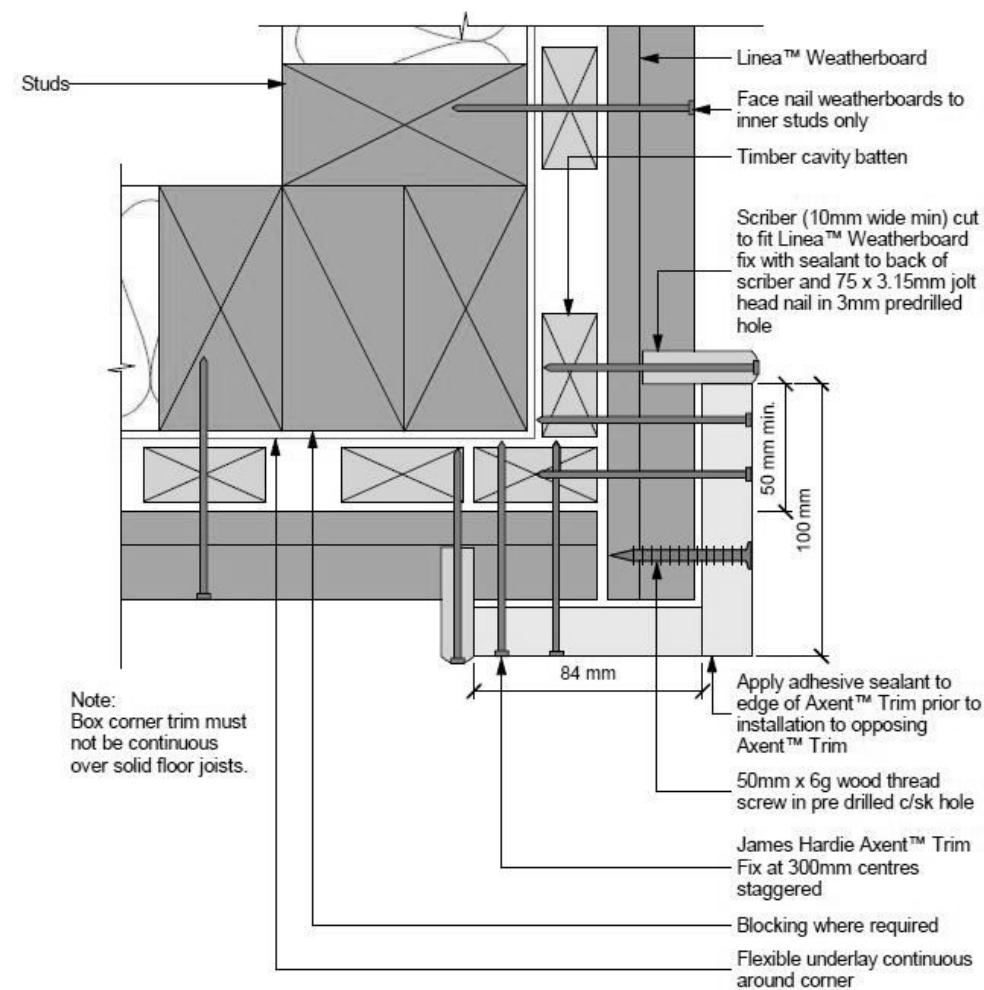
1. Flashing materials must be selected based on environmental exposure, refer to NZS 3604 and Table 20 of the NZBC E2/AS1
2. Flexible underlay must comply with acceptable solution E2/AS1
3. Flashing tape must have proven compatibility with the selected flexible underlay and other materials with which it comes into contact
4. Linea™ Weatherboard to have sealed butt joint over batten at each corner of opening

CONSENT PLANS

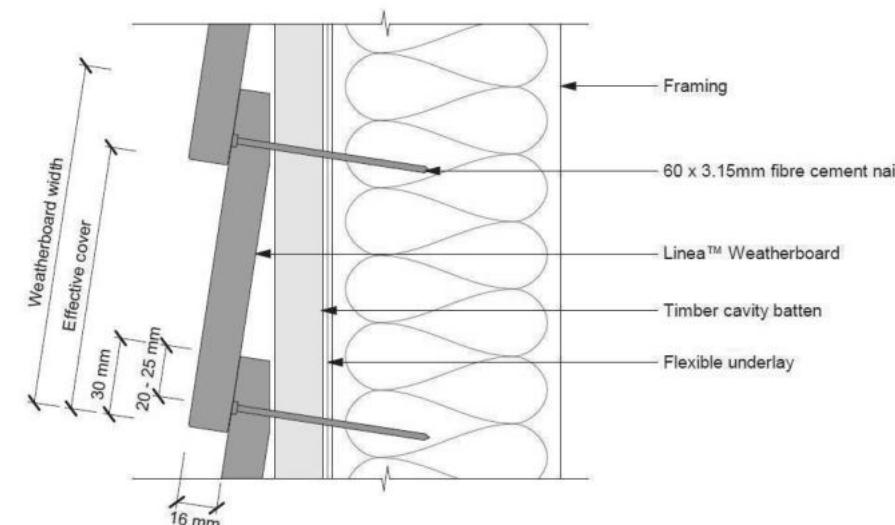
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of 23 sheets

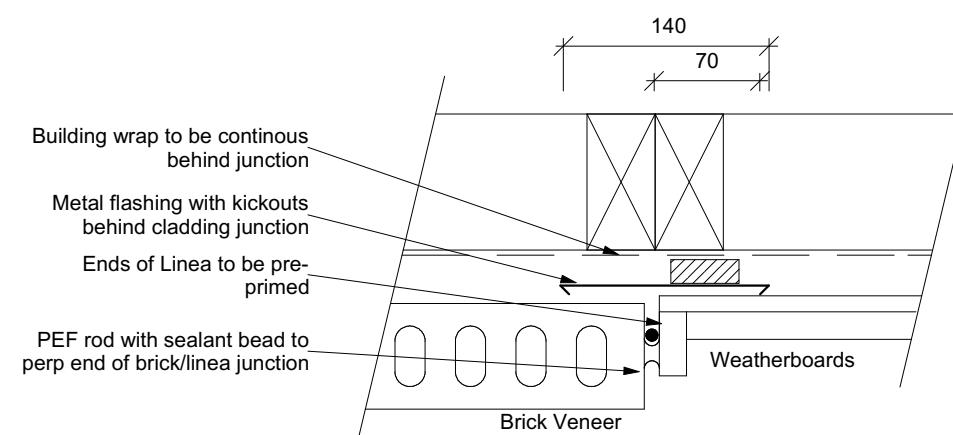


Amendment #1



Concealed Nailing

Linea™ Weatherboards to be face fixed at corners and down window and door openings using jolt head nails at 90° to face, punch 2mm below surface and fill. Refer to fixing table 4



Weatherboard/Brick Vertical Junction
Scale 1:5

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Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch

Job Number:
170030

Original Plan:
Kakariki 168

Sheet Name:
CONSTRUCTION DETAILS

CONSENT PLANS

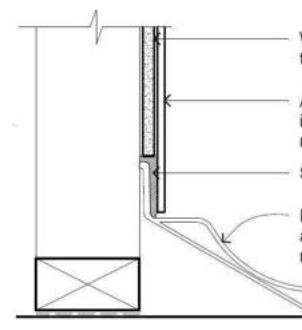
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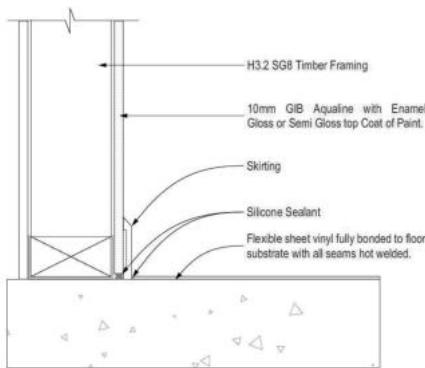


Wall linings as specified over timber framing, as specified
Acrylic liner over wall linings installed as per manufacturer's recommendations
Silicone sealant
Proprietary shower tray installed as per manufacturer's recommendations

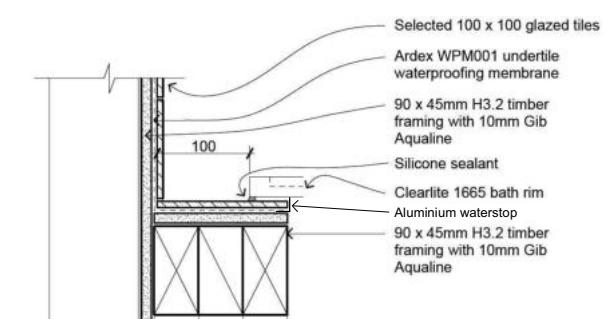
22/08/2023



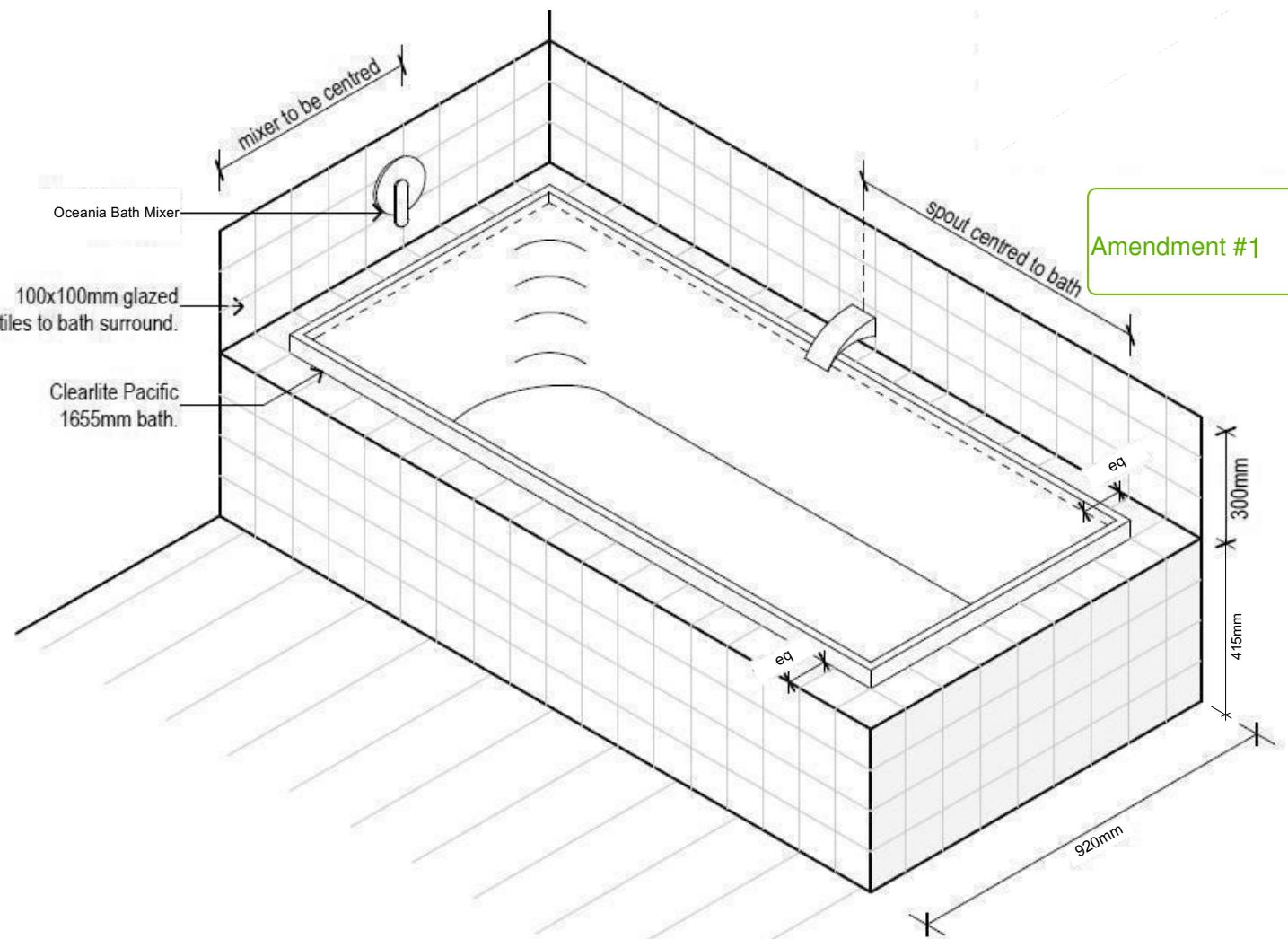
SHOWER TRAY DETAIL



GENERAL FLOOR/WALL DETAIL

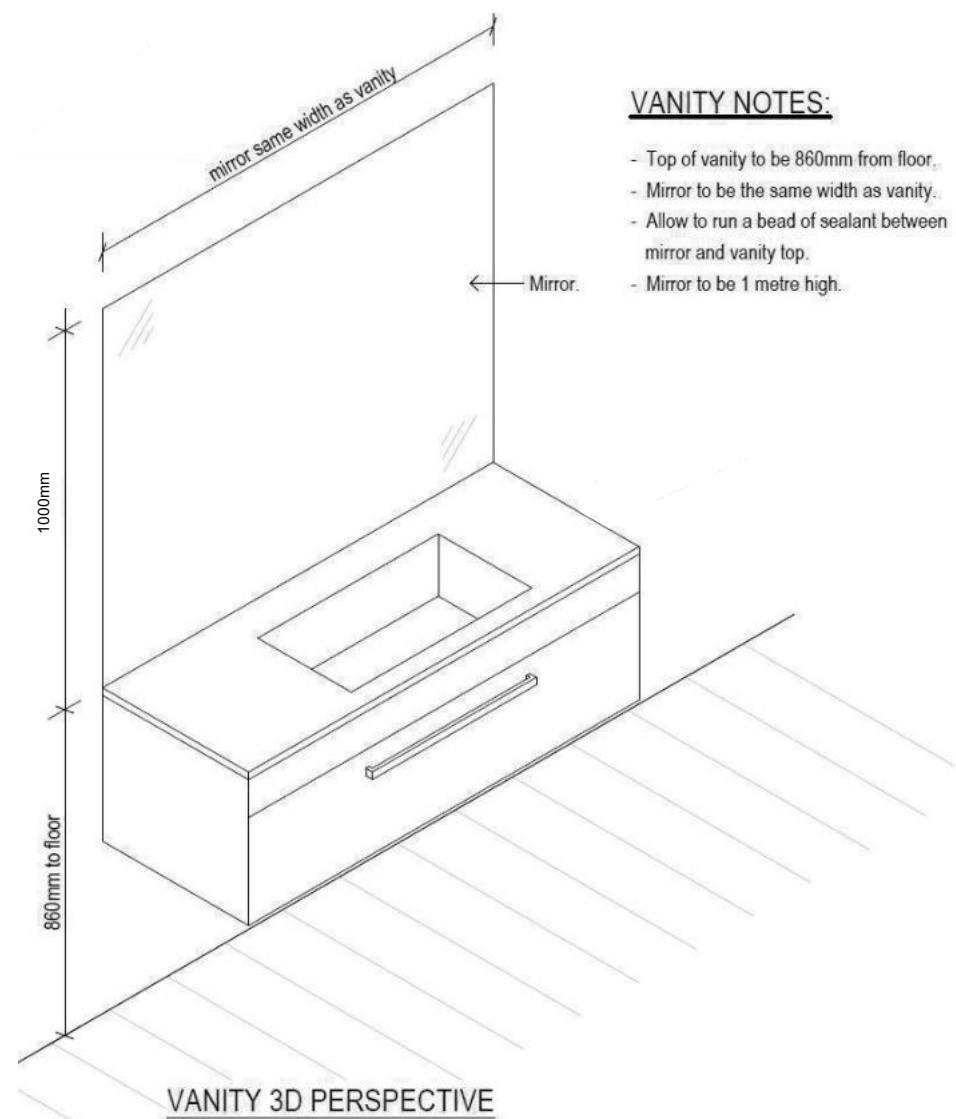


BATH/WALL JUNCTION



VANITY NOTES:

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



VANITY 3D PERSPECTIVE

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Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch

Job Number:
170030

Original Plan:
Kakariki 168

Sheet Name:
BATHROOM DETAILS

CONSENT PLANS

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Buildable Consent Layout

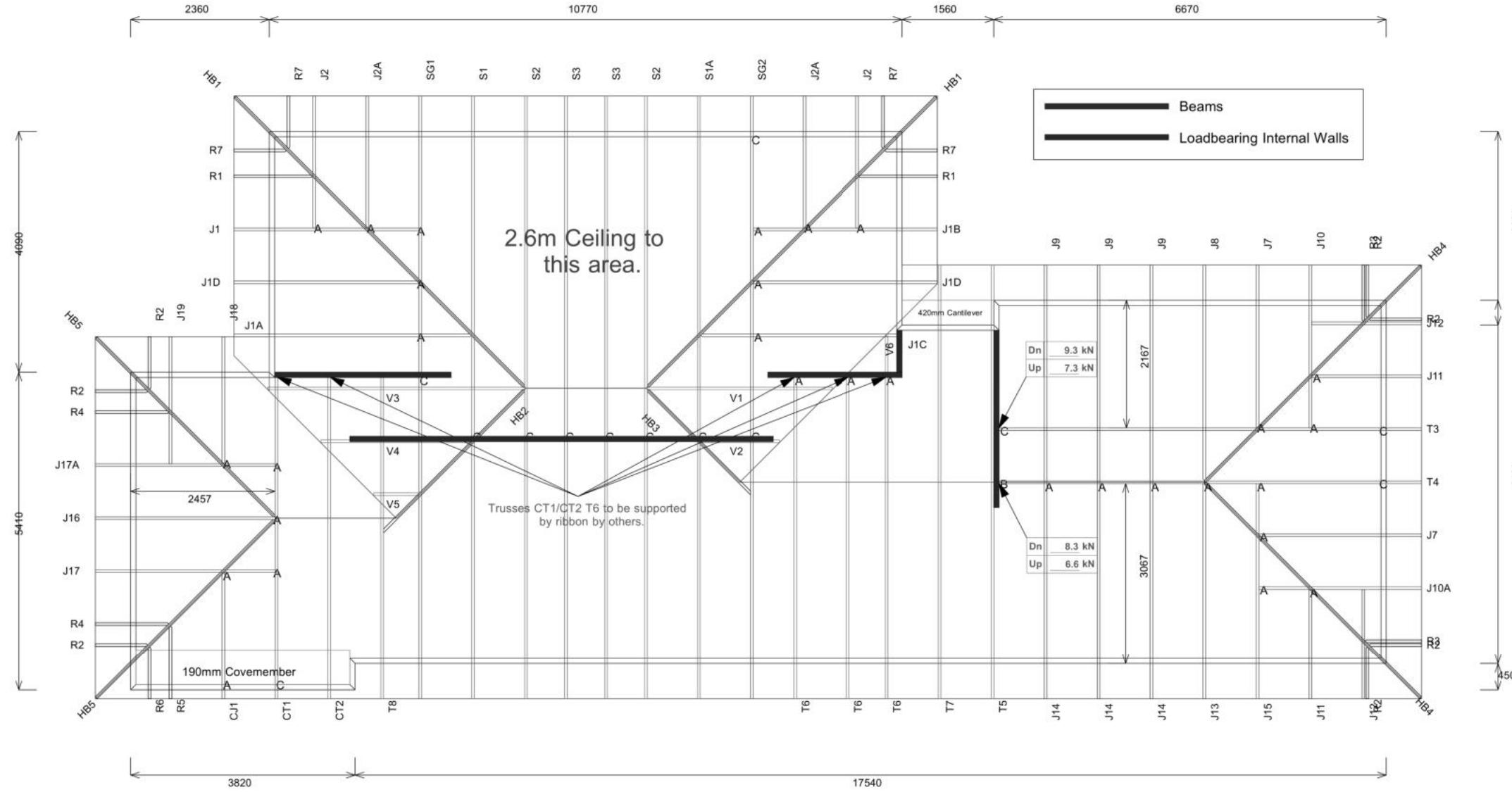


For valley/saddle truss fixing unless stated otherwise use a pair of wire dogs at 900mm centres for up to and including a very high wind zone. Or a pair of CT200's at 900mm centres for extra high wind zone. This fixing is to meet the minimum requirements as per NZS3604.

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Your Building Partner
City Council
BCN/2023/2823
Approved Building Consent Document
22/08/2023

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Truss Fixings

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

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

Amendment #1

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

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

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

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

| | |
|--------------------|-----------------------------|
| Snow Zone: | Christchurch (N4) |
| Wind Area: | High |
| TC Restraints: | 900 mm |
| Roof Material: | Galv Iron 0.55mm |
| Roof Pitch: | 25.00 ° |
| Snow Altitude: | 100.000 m |
| Design Wind Speed: | 44.0 m/s |
| BC Restraints: | 600 mm |
| Ceiling Material: | Standard Plaster Board 13mm |
| Ground Snow Load: | 0.900 kPa |
| Truss Centres: | 900 mm |

Job No: **CH1357554C2**

Customer: TKR Homes Limited | T/A Signature Homes Canterbury

Job Name: RKG Holdings Lot 38 Belfast Development

Address: Lot 38 Belfast Development
Belfast, Christchurch



Every Facet an Advantage.

Drawn: Bruce Barrow
Date: 29/06/2023

If a gable truss requires a windbeam brace, the type of MiTek brace will be noted as such on the layout.

The truss fixings can be substituted for other fixings of the same or greater capacity.

All verge framing to be fixed according to the MiTek On-Site Guide if not covered by NZS3604.

If bottom chord restraints are 35mm Metal battens, then they must be fixed with either two nails or screws.

If the metal battens are fixed with a single nail or screw then 90x45mm bottom chords restraints will be required at 1800mm centres

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

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Renee Mau
Lot 38
Belfast Development
Belfast, Christchurch

Job Number: **170030**
Original Plan: **Kakariki 168**
Sheet Name: **TRUSS DESIGN**
Sales: V Bhatia Drawn: M Glynn QS: W Xian Print Date: 4/08/2023 Scale: NTS @ A3

CONSENT PLANS

| No. | Date: | Reason: |
|-----|------------|-----------------------|
| 1 | 10-11-2021 | Initial Consent Plans |
| 2 | 04-08-2023 | Revised Consent Plans |

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Buildable Consent Layout

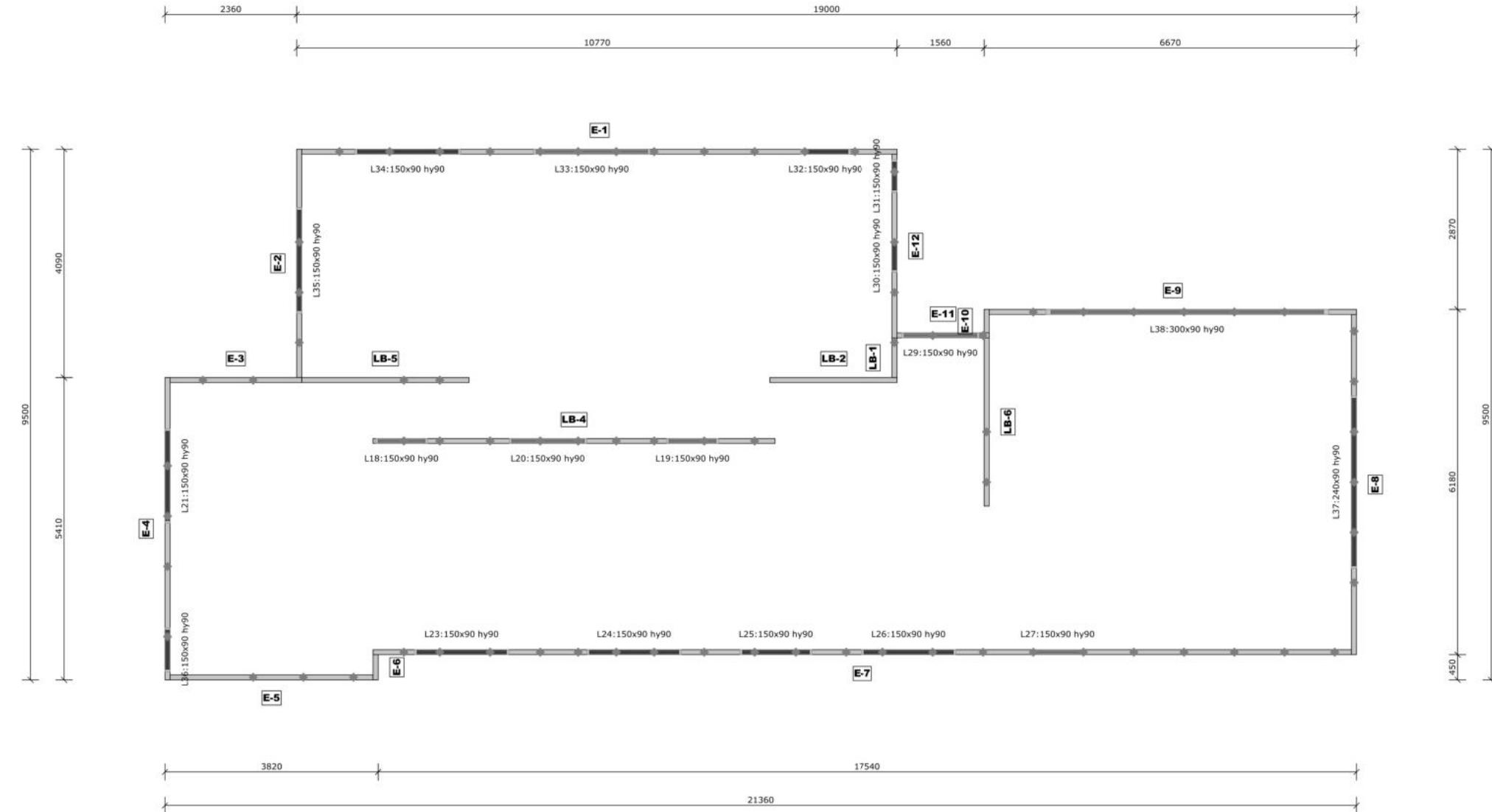


All internal walls shown on this layout are considered to be loadbearing
Lintel fixing specification remains the responsibility of the architect / draughtsperson

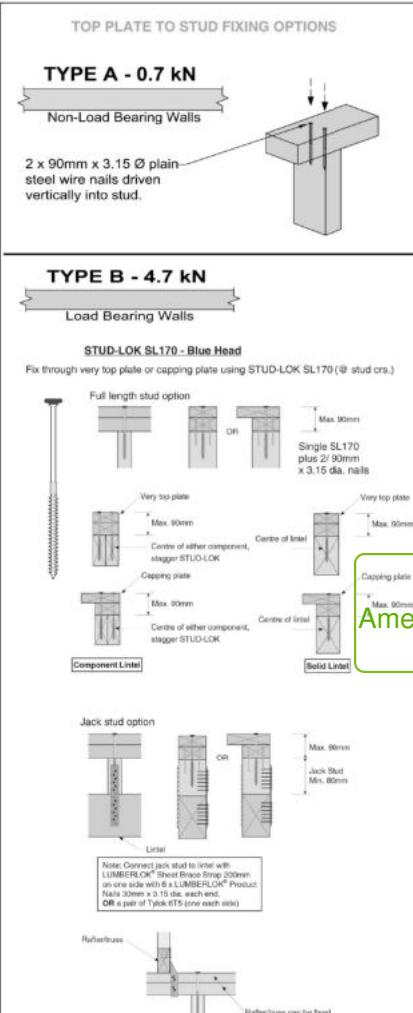
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BCN/2022/2823
Approved Building Consent Document
22/08/2023

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Lintel Fixings are as per the included reports.



Amendment #1

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

| |
|--|
| MiTek® SAPPHIRE™ Every Facet an Advantage. |
| Job No: CH1357554C2 |
| Customer: TKR Homes Limited T/A Signature Homes Canterbury |
| Job Name: RKG Holdings Lot 38 Belfast Development |
| Address: Lot 38 Belfast Development Belfast, Christchurch |
| Drawn: Bruce Barrow |
| Date: 29/06/2023 |

Notification of point loaded lintels or point loads on internal walls where the downward load is higher than 8kN (85mm raft type slab) or 10kN (100mm standard slab), or the upward load is greater than 10kN. These loads are Ultimate Limit State Loads

If no loads are shown, no thickening is required.

The lintels have been sized using one of the following:

The MiTek SAPPHIRE Component Design Software.

hy90, hyONE and hySPAN lintels have been sized using the designIT for houses - New Zealand series 6 software.

GANGLAM and FLITCH BEAMS have been sized using the MiTek Beam Program V1.10 June 2011.

Unless otherwise stated the timber grade for all lintels is SG8. Lintels not shown are to be selected as per NZS3604: 2011 or designed by an engineer as required.

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Lot 38
Belfast Development
Belfast, Christchurch

Job Number: **170030**
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Sheet Name: **TRUSS DESIGN**
Sales: **V Bhatia** Drawn: **M Glynn** QS: **W Xian**
Print Date: **4/08/2023** Scale: **NTS @ A3**

CONSENT PLANS
No. Date Reason:
1 10-11-2021 Initial Consent Plans
2 04-08-2023 Revised Consent Plans

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ENGCO
Consulting Engineers

NEW HOUSE

Lot 38 Belfast Development, Christchurch

RIBRAFT DRAWINGS

File Number 21008.174

| Sheet No. | Rev | Date Issued | Sheet Title |
|-----------|-----|-------------|--------------------------------------|
| S1 | - | 12.10.2021 | General Notes |
| S2 | A | 04.07.2023 | RibRaft Layout Foundation Plan |
| S3 | - | 12.10.2021 | Typical Foundation Sections |
| S4 | - | 12.10.2021 | Typical Foundation Sections |
| S5 | - | 12.10.2021 | Typical Foundation Sections |
| S6 | - | 12.10.2021 | Typical Services Penetration Details |

| Issue Register | |
|----------------|-------------------------------|
| Date | Description |
| 12.10.2021 | For Consent |
| 04.07.2023 | Additional Load Bearing Walls |

Amendment #1

GENERAL

- These drawings are not to be used for construction until the plan (sheet S2) is signed by the main contractor
- Do not scale. refer any discrepancies to the architect/engineer.
- These drawings are to be read in conjunction with the Architects & Engineers drawings.
- The builder shall be responsible for any damage to works during construction.
- The sand blinding layer shall be 20mm min. & 50mm max. to aid levelling & to prevent rocking of pods.
- Vapour barrier to be 0.25mm (250 micron) polythene complying with NZS 4229. / NZS 3604
- Finished ground level adjacent to slab to be protected from wind, water erosion and undermining.

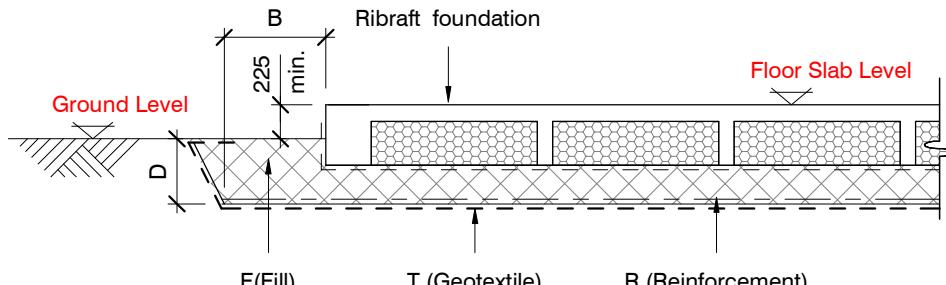
FOUNDATIONS

- For assumed allowable bearing capacity refer to calculations/installer guide. Unless otherwise noted in documentation
- If there is any doubt about the integrity of the material on which the slab is to be founded - Supervising Engineer must be notified immediately.

GEOTECHNICAL REFERENCE:

Refer: ENGEO Ltd. "Lot Specific Geotechnical Report - Lot 38 Belfast Village Stage 4, Christchurch"
Ref. No: 19120.000.001_38
Dated: 24th September 2021

Confirm Ultimate Bearing Capacity after site stripping > 200kPa.



BUILDING PLATFORM

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CONCRETE

- All workmanship & materials to conform to NZS 3109, NZS 4210 & local authority regulations.
- Minimum covers to reinforcement:
 - Exposed to earth - 75mm.
 - Protected by vapour barrier - 50mm.
 - Not exposed to weather except for a brief period during construction - 25mm.
- No holes or chases other than those specified are to be made in the slab without the approval of the Engineer.
- All concrete shall have 20mm nominal maximum aggregate size & 120mm slump & shall comply with NZS 3109.
- All concrete to be mechanically vibrated & carefully worked around the reinforcement & into the corners of the formwork.

6. Ribraft make-up to be

100 mm Floor Slab - 220 mm pods
(20MPa TC2 Dramix 4D 80/60 Fibre mix Concrete)
G500 E SE62 Ductile mesh on 65 mm chairs.

The design Fibre mix shall be supplied so that the residual flexural tensile stresses $f_{R,1}$ & $f_{R4,K}$ shall be 1.5 MPa & 1.0 MPa respectively.

INSPECTIONS

Inform ENGCO Consulting 48 hours in advance of any inspections required for code compliance certification.
Contact ENGCO - Ph. 03 366 7955 & quote ENGCO Ref. No.

INSPECTIONS REQUIRED

- Confirm bearing at excavation.
- Contractor to supply (4) N.D> Tests at mid-height and finished compacted surface
 - if depth of fill is greater than 400mm.
- Pre-pour of slab.

| BUILDING PLATFORM TABLE: | |
|--------------------------|---|
| B | 500mm |
| D | 300mm minimum. Remove all topsoil from site. |
| T | N/A |
| R | N/A |
| F | AP 40/AP65 fill. - 95% Dry Density. Compact in 200mm layers (max.) |

Refer Architectural drawings for Finished Floor Level

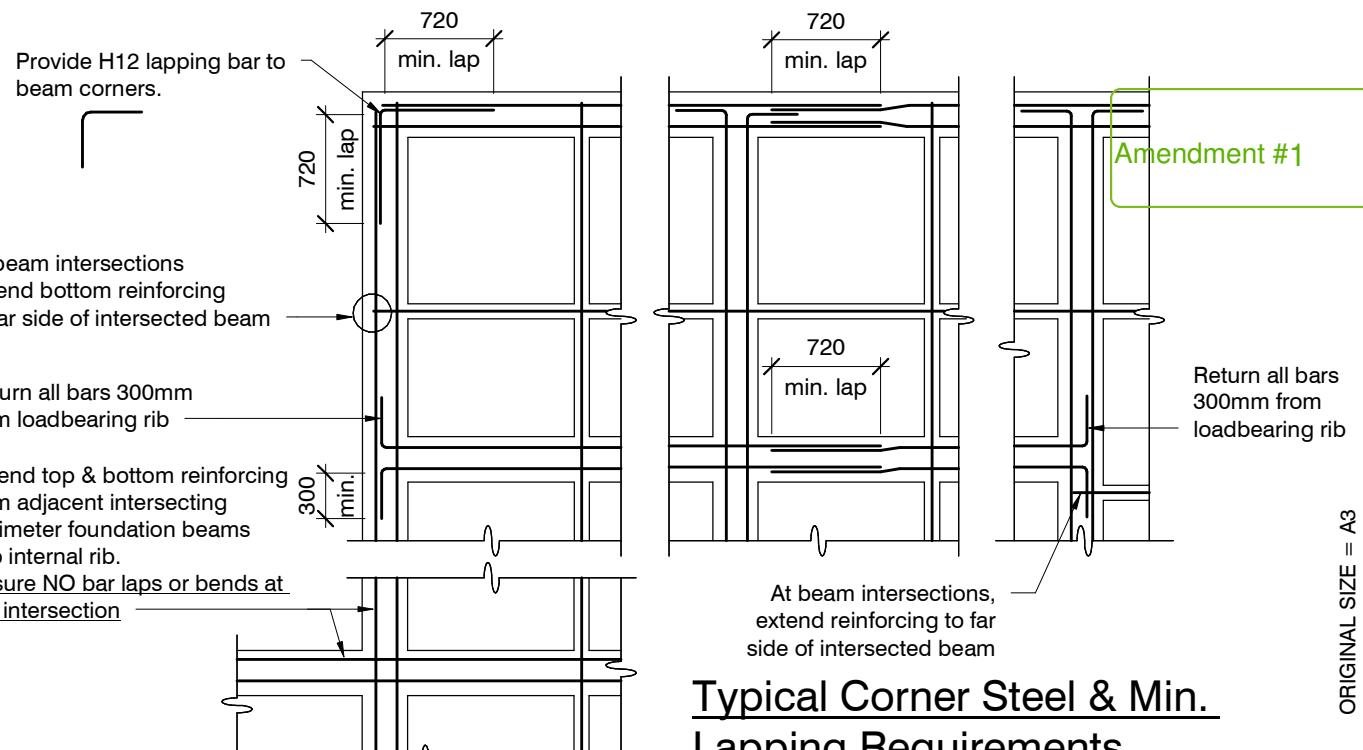
NEW HOUSE
Lot 38 Belfast Development, Christchurch

REINFORCEMENT

- All reinforcing shall be new Zealand sourced and conform to AS/NZS 4671 :2001 in grade 300 or grade 500E.
- All bends to be made cold without fracture.
- All reinforcing shall be deformed type unless otherwise stated.
- Grade 500E deformed bars shall be designated 'H', Grade 300 deformed bars shall be designated 'D' and Grade 300 round bars shall be designated 'R'
- Minimum bar splice 720mm. (or unless otherwise noted)
- All reinforcement to be fixed & tied where necessary in its specified position.
- Welding of steel is not permitted
- Spacers:
 - Edge at 1200mm ctrs (one on edge & two on corners, typically).
 - Internal one on each side of pod (typically).
- All mesh shall comply with AS/NZS 4671 & shall conform with elongation requirements exceeding 10%.
- All Mesh shall lap a minimum of 250mm (end extensions not included in lap length)

RIB RAFT

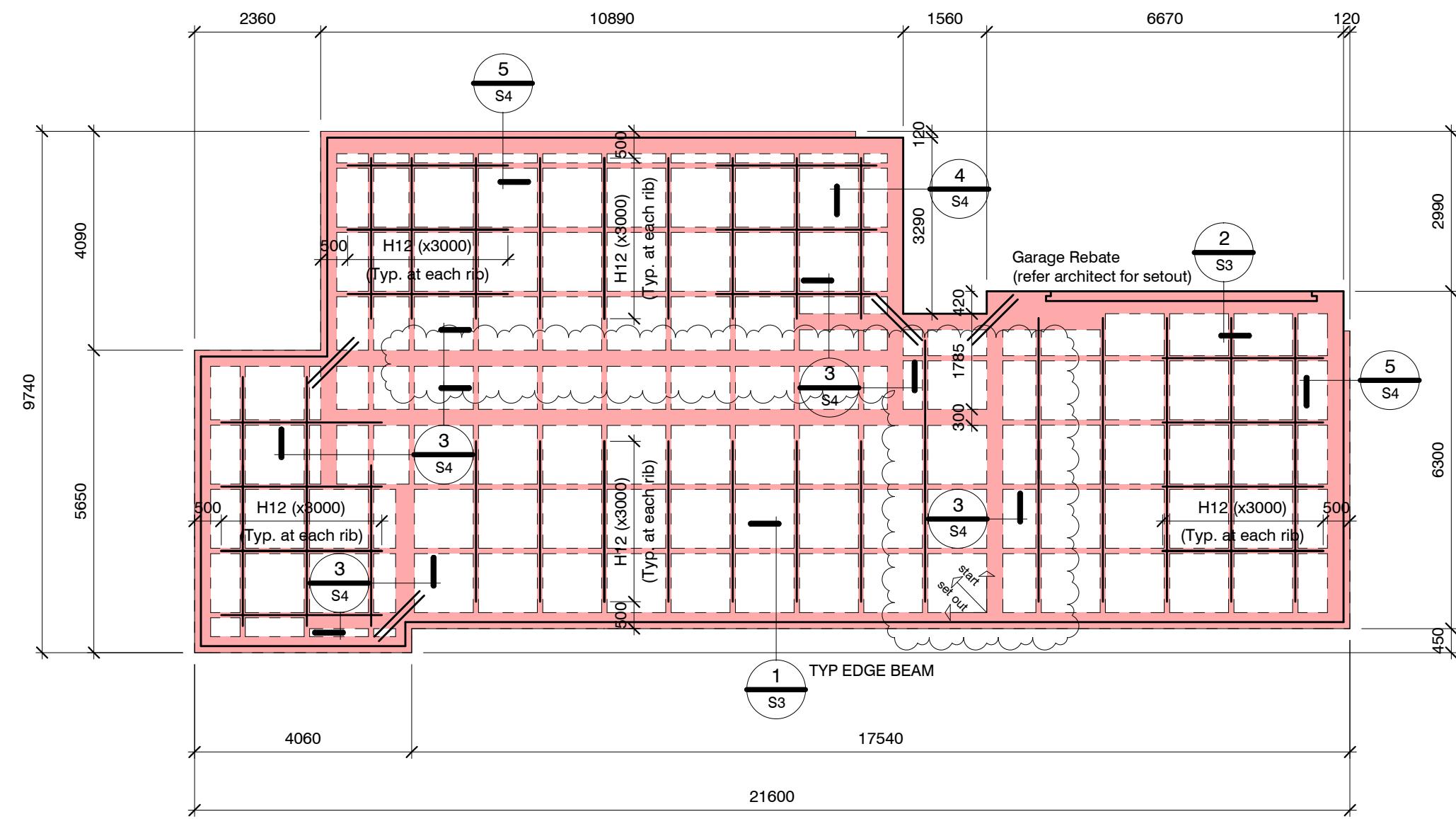
1. Rib raft make-up to be



Typical Corner Steel & Min. Lapping Requirements

| | | |
|---|------------|-------------|
| - | 12.10.2021 | For Consent |
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| | |
|--------------------|----------------|
| design M. MCKENZIE | file 21008.174 |
| drawn C. DE MESA | dwg S1 |
| appvd M. MCKENZIE | rev. - |
| date 12 OCT 2021 | |



100 mm Floor Slab - 220 mm pods
(20MPa TC2 Dramix 4D 80/60 Fibre mix Concrete)
G500 E SE62 Ductile mesh on 65 mm chairs.

Amendment #1

The design Fibre mix shall be supplied so that
the residual flexural tensile stresses $f_{R,1}$ & $f_{R,4,K}$
shall be 1.5 MPa & 1.0 MPa respectively.

All Mesh shall lap a
minimum of 250mm
(end of extensions not included).

RIBRAFT FOUNDATION LAYOUT PLAN

1 : 100

Confirm all dimension with Architects drawings

ORIGINAL SIZE = A3

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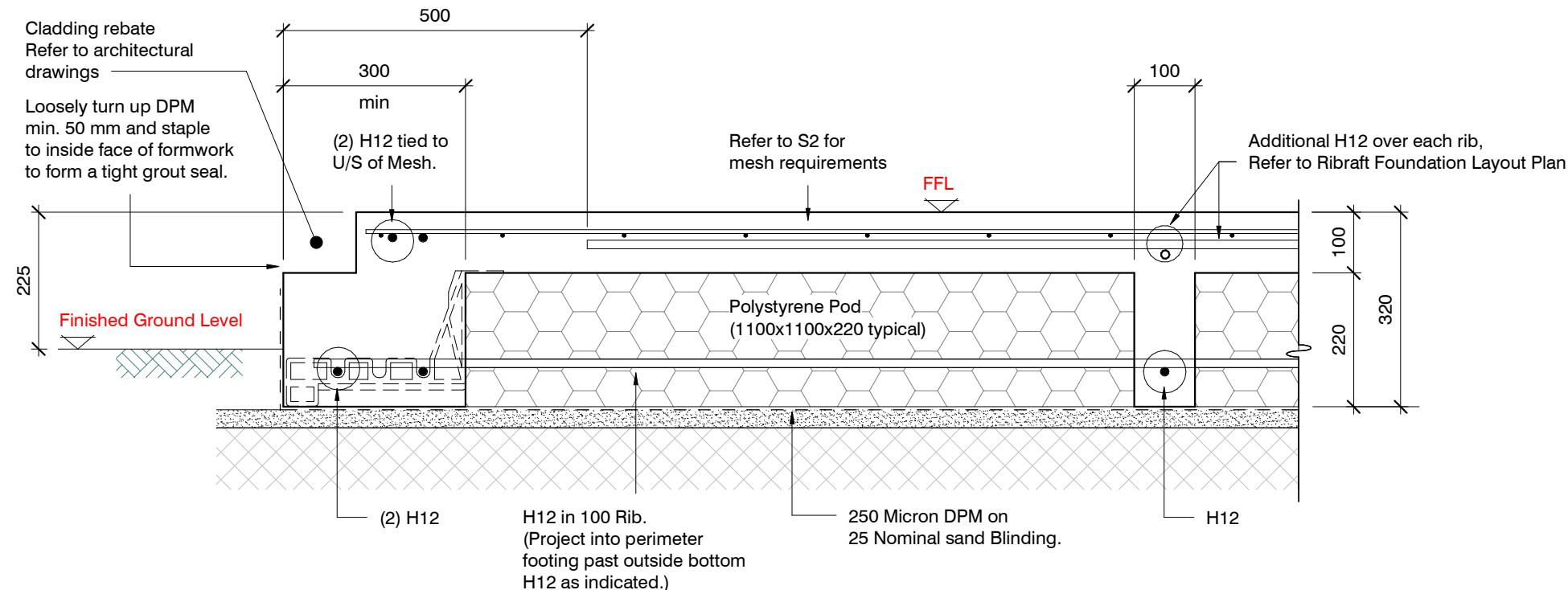
NEW HOUSE
Lot 38 Belfast Development, Christchurch

**RibRaft Layout
Foundation Plan**

revisions

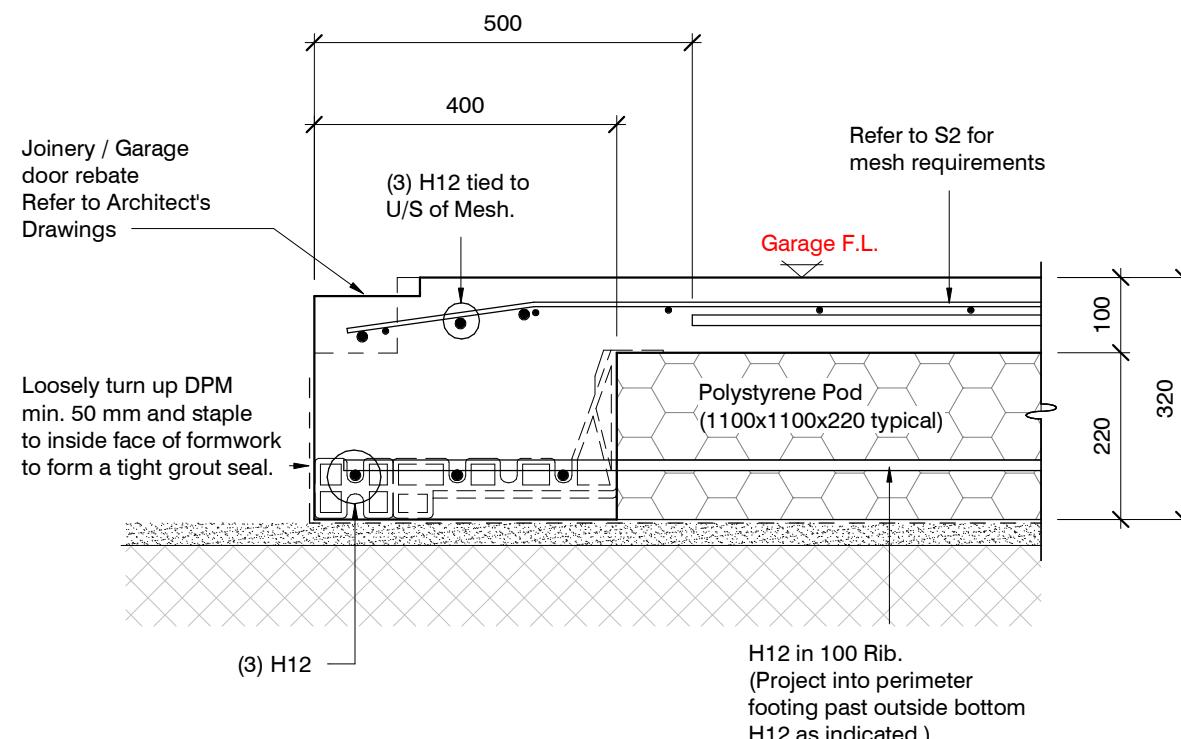
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|---|------------|-------------------------------|
| - | 12.10.2021 | For Consent |
| A | 04.07.2023 | Additional Load Bearing Walls |

| | | | |
|--------|-------------|------|-----------|
| design | M. MCKENZIE | file | 21008.174 |
| drawn | C. DE MESA | dwg | S2 |
| appvd | M. MCKENZIE | rev. | A |
| date | 12 OCT 2021 | | |


SECTION 1 TYPICAL 300 WIDE EDGE BEAM (with Rebate)

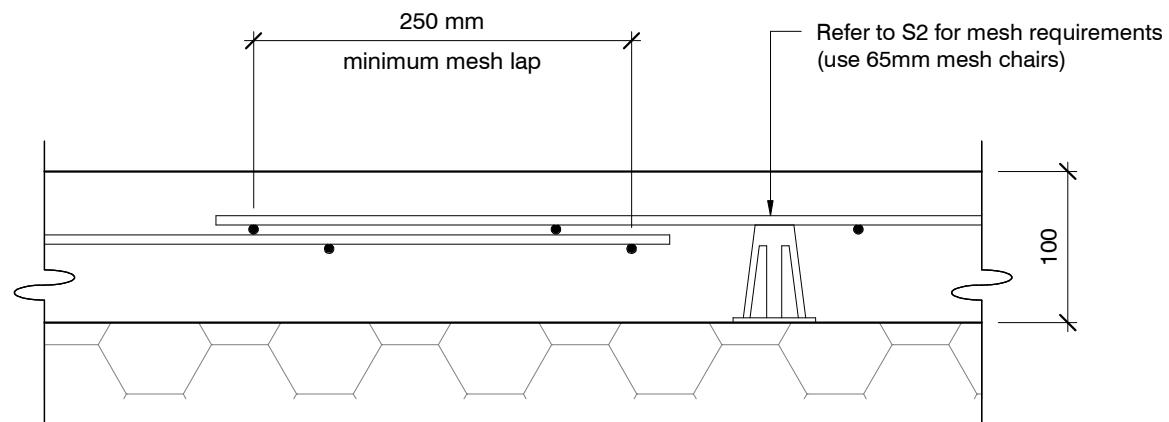
1 : 10

S2


SECTION 2 GARAGE DOOR REBATE

1 : 10

S2



TYPICAL MESH LAP & CHAIR REQUIREMENTS

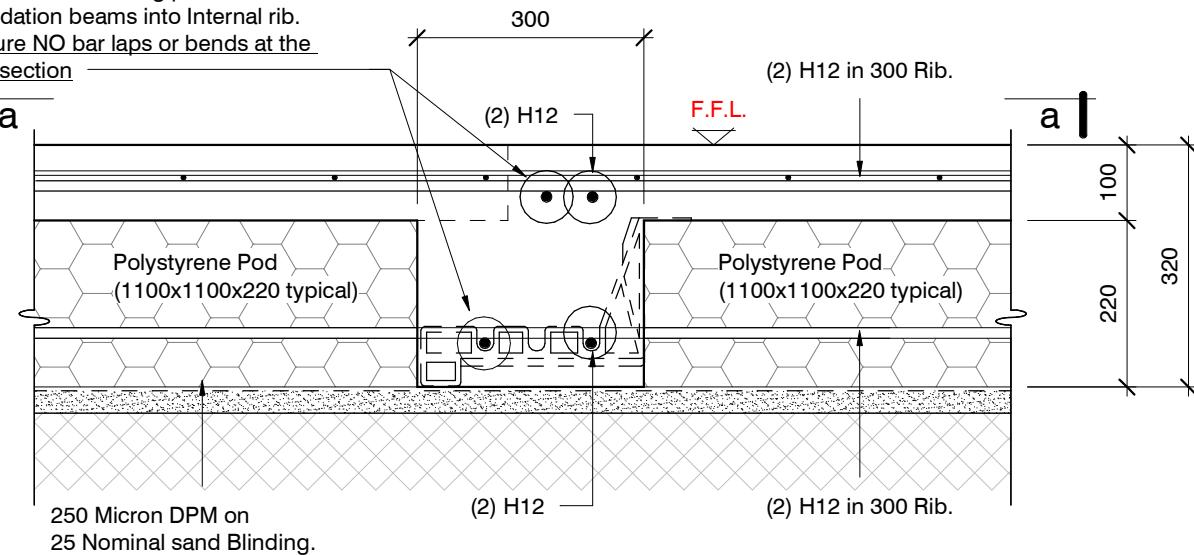
1:10

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revisions

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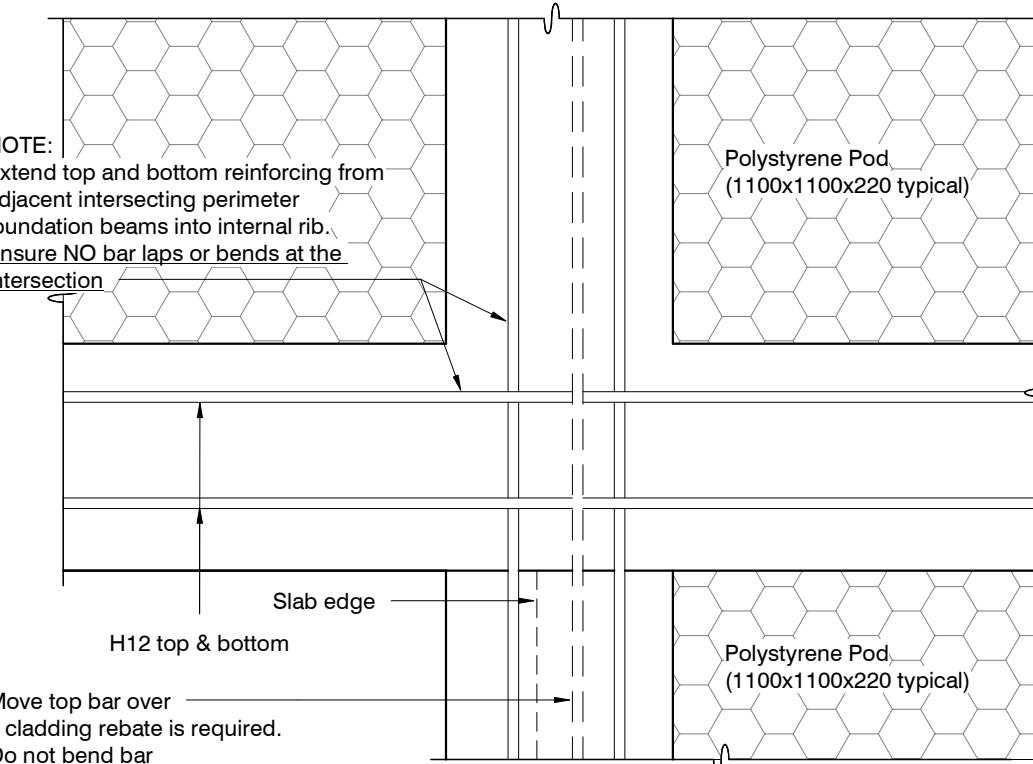
NOTE:
Extend top and bottom reinforcing from adjacent intersecting perimeter foundation beams into Internal rib.
Ensure NO bar laps or bends at the intersection

**SECTION 3** TYPICAL 300 WIDE INTERNAL BEAM

1 : 10

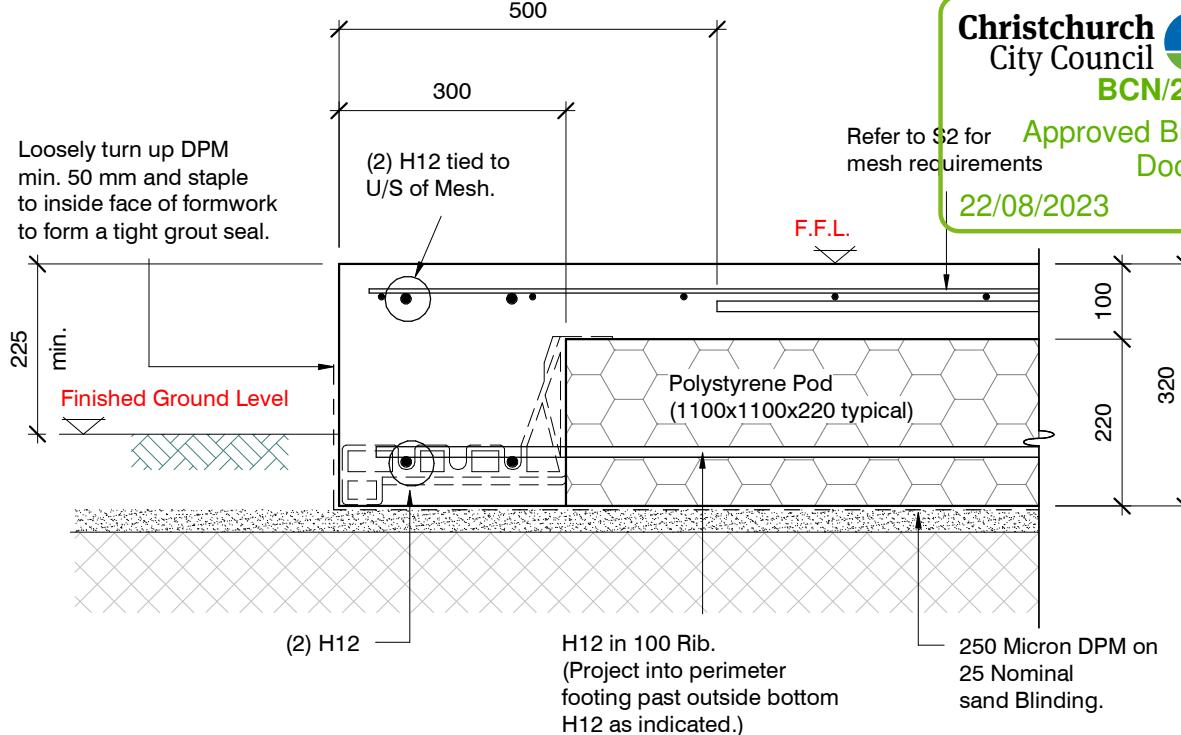
S2

NOTE:
Extend top and bottom reinforcing from adjacent intersecting perimeter foundation beams into internal rib.
Ensure NO bar laps or bends at the intersection



a-a

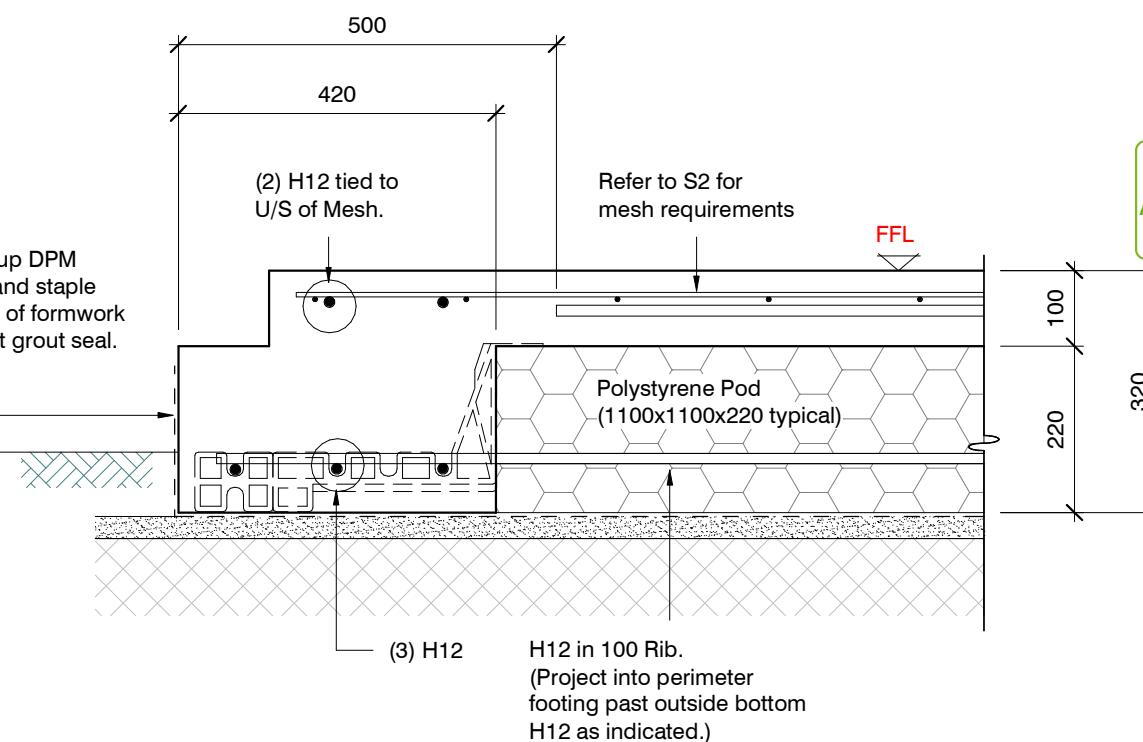
Loosely turn up DPM min. 50 mm and staple to inside face of formwork to form a tight grout seal.

**SECTION 4** TYPICAL 300 WIDE EDGE BEAM (no Rebate)

1 : 10

S2

Loosely turn up DPM min. 50 mm and staple to inside face of formwork to form a tight grout seal.

**SECTION 5** TYPICAL 420 WIDE EDGE BEAM

1 : 10

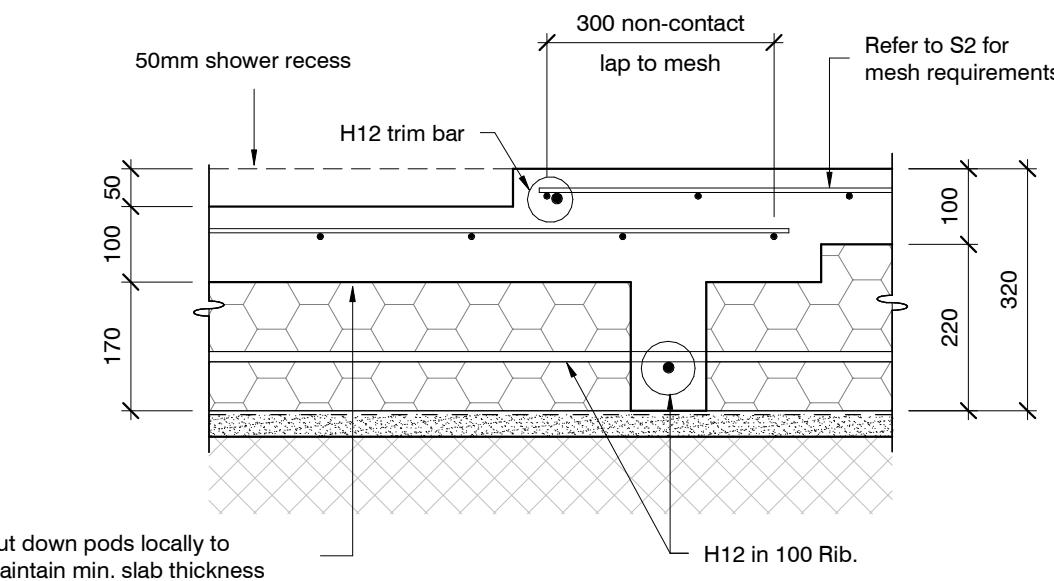
S2

revisions

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|---|------------|-------------|
| - | 12.10.2021 | For Consent |
| | | |

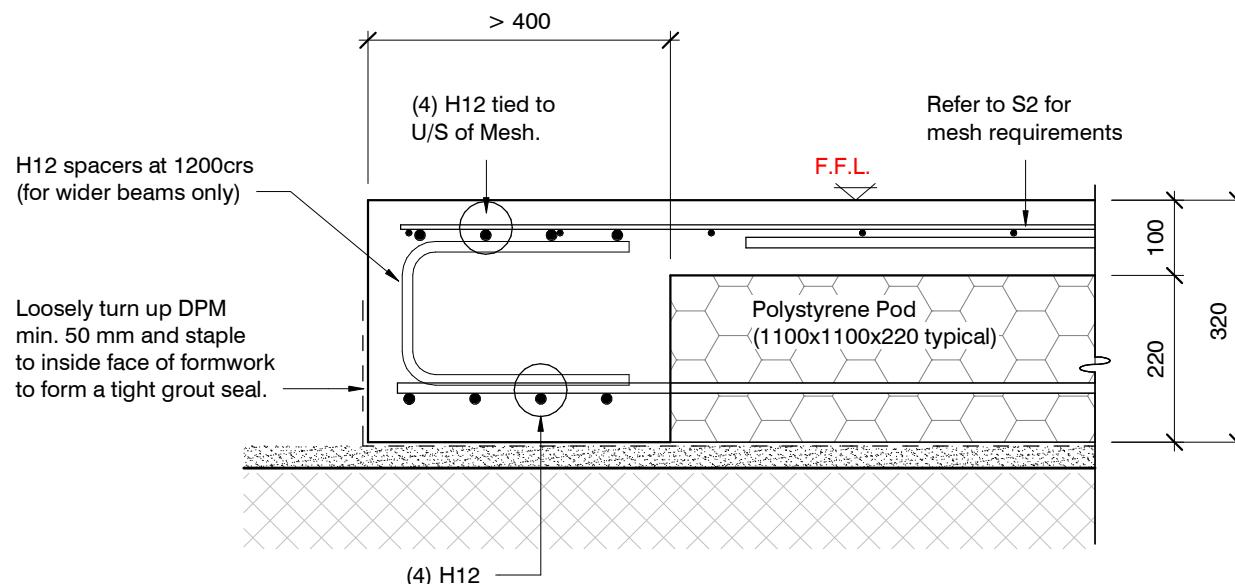
ORIGINAL SIZE = A3

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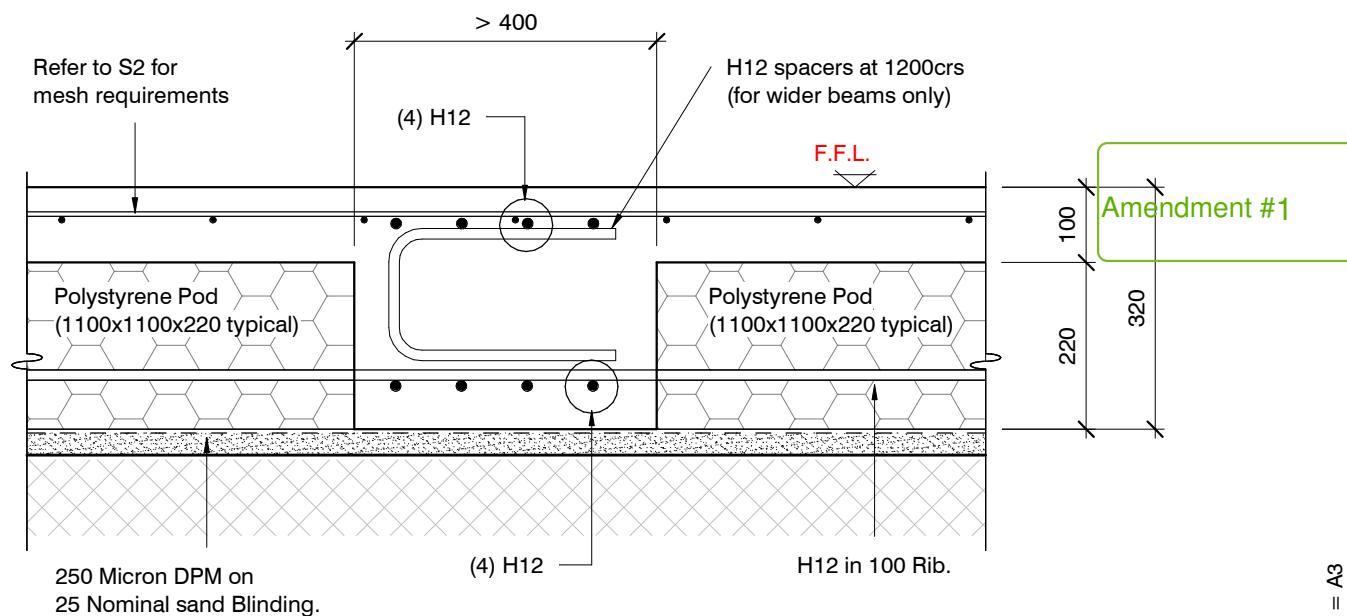


TYPICAL SHOWER RECESS (if needed)

1 : 10



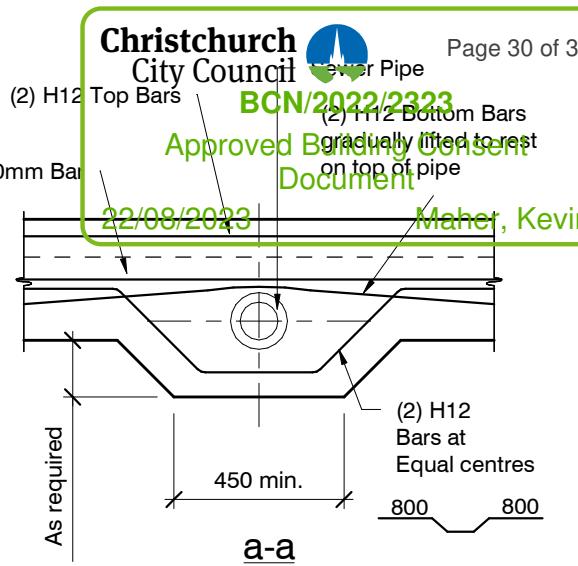
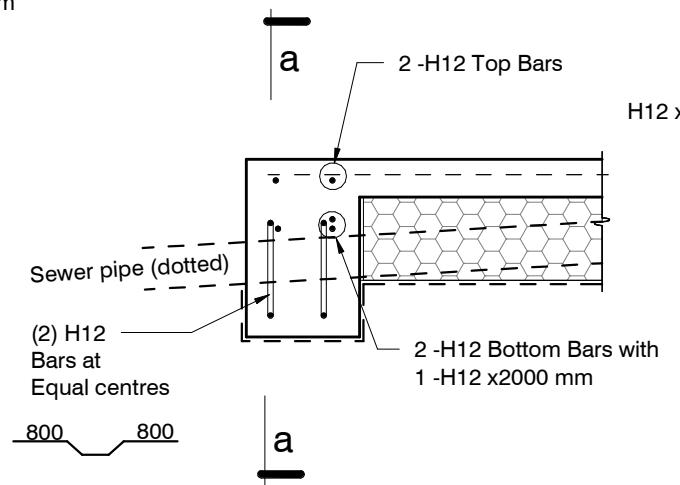
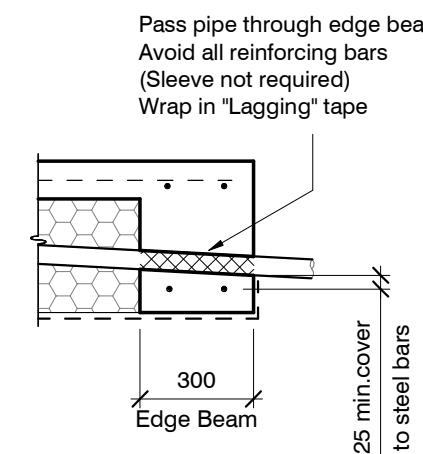
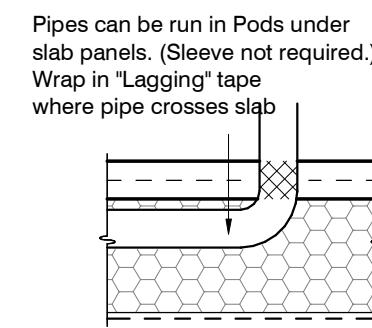
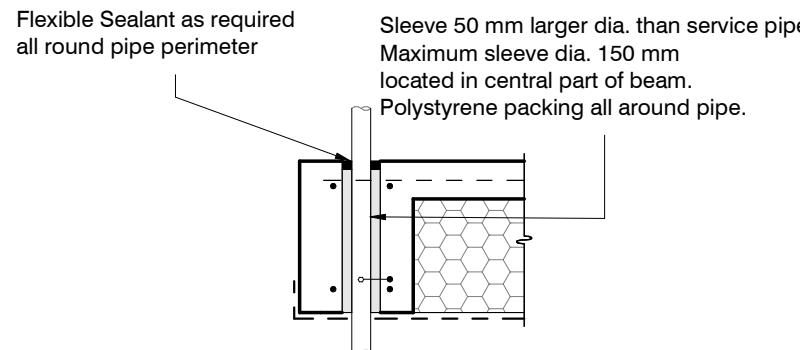
EDGE BEAM > 400mm IN WIDTH
1:10
if required



INTERNAL BEAM > 400mm IN WIDTH
1:10
if required

ORIGINAL SIZE = A3

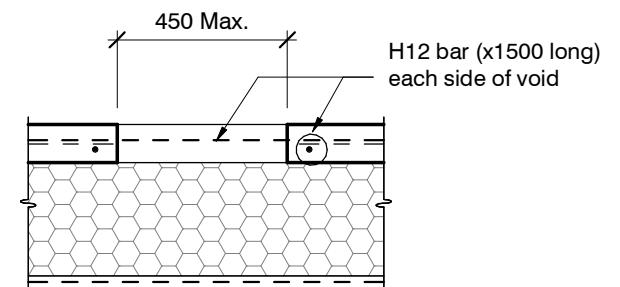
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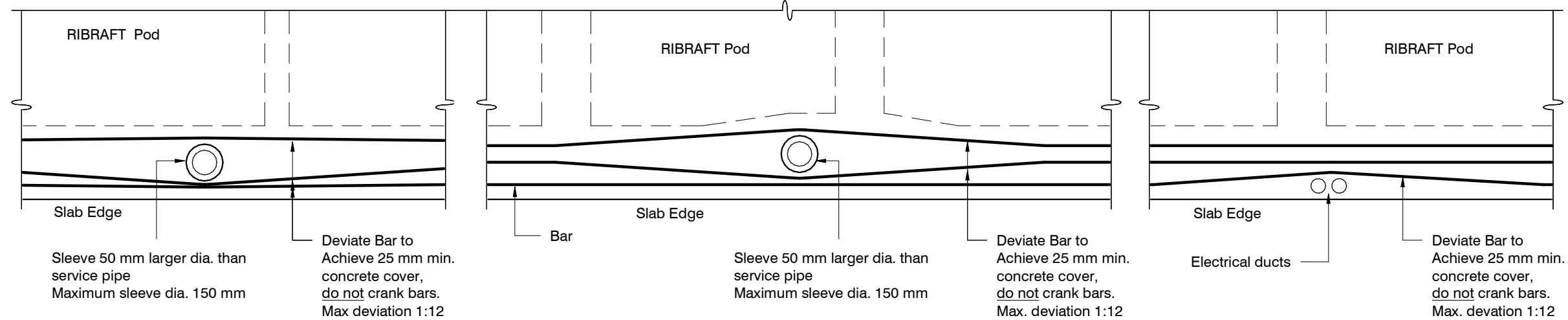
SLAB SERVICES PENETRATION DETAIL

PIPE NOTE:
No separation required where pipes are fully contained within slab.
Sleeve all drains that pass through the base of the slab.

PENETRATIONS NOTE:
Where penetrations through Floor Slab exceed 450 mm Square, Crack Control Bars will be required.



LARGE SLAB PENETRATION DETAIL



ORIGINAL SIZE = A3

Amendment #1

FOUNDATION SERVICES PENETRATION DETAILING.

Services shall not run along ribs or edge beams.

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NEW HOUSE
Lot 38 Belfast Development, Christchurch

Typical Services
Penetration Details

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|---|------------|-------------|
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|--------|-------------|------|-----------|
| design | M. MCKENZIE | file | 21008.174 |
| drawn | C. DE MESA | dwg | S6 |
| appvd | M. MCKENZIE | rev. | - |
| date | 12 OCT 2021 | | |