

Approved Building Consent Documents

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

| INSPECTION BOOKING TIMEFRAMES | | |
|-------------------------------|---|--|
| Telephone 03 347 2839 | | |
| Call received | <i>Before 3pm inspection will be done</i> | <i>After 3pm inspection will be done</i> |
| Monday | Wednesday | Thursday |
| Tuesday | Thursday | Friday |
| Wednesday | Friday | Monday |
| Thursday | Monday | Tuesday |
| Friday | Tuesday | Wednesday |

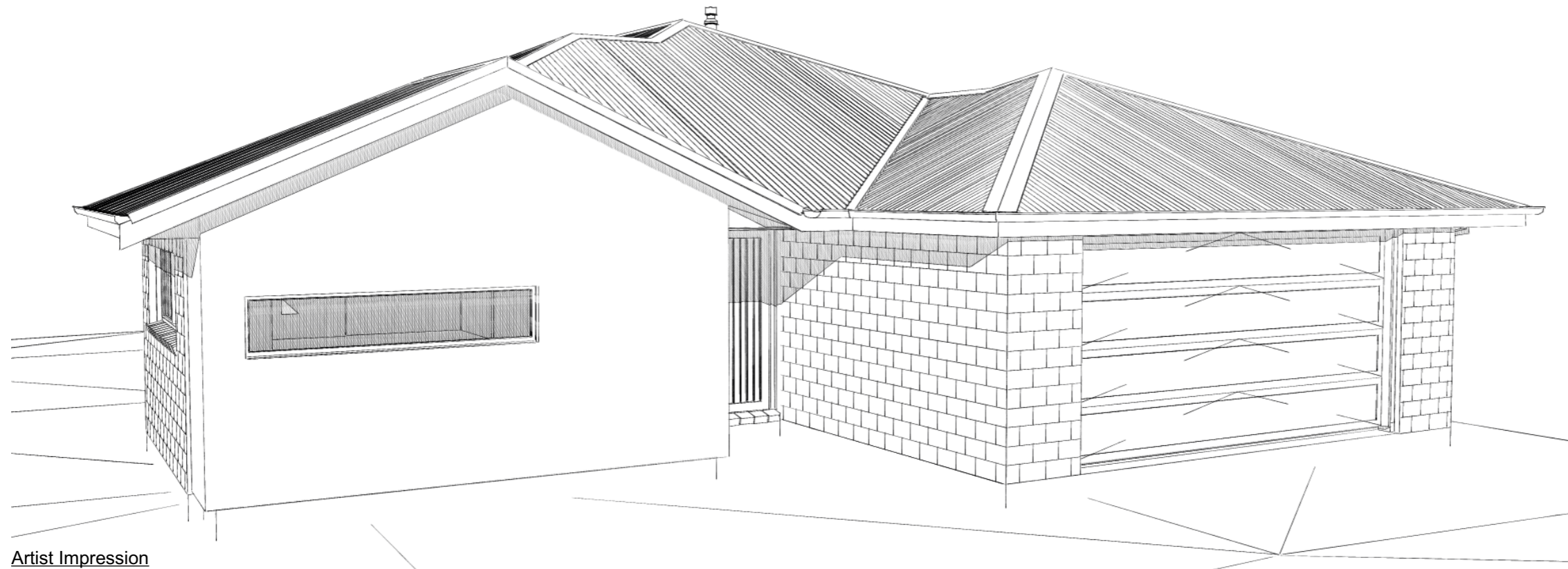


Revision A - 18/08/2017
 Sheet 4 - Air Admittance Valves added to showers.
 Sheet 7 - Entry Beam Size Updated To Match Truss Design.
 Sheet 8 - Entry Beam Size Updated To Match Truss Design.
 Sheet 10 - Restrictor Stay Added To WC Window.
 Sheet 12 - Hebel Perforated Top Hat Size Updated.
 Sheet 17 - Clearances To Paved Ground Noted On Brick Rebate Detail.
 Sheet 18 - Clearances To Paved Ground Noted On Foundation Sill Detail.
 Sheet 20 - Garage Door Sill Detail Added.
 Hebel Perforated Top Hat Size Updated.
 Sheet 21 - Clearances To Paved Ground Noted On Hebel To Foundation Detail.
 Clearances To Paved Ground Noted On Foundation Sill Detail.
 Hebel Perforated Top Hat Size Updated.
 Sheet 22 - Hebel Perforated Top Hat Size Updated.
 Sheet 23 - Hebel Perforated Top Hat To Ecoply Bracing Details Added.
 Entry Beam Details Updated.
 Hebel Perforated Top Hat Size Updated.
 Sheet 24 - Valley Gutter Support Board Size Noted.
 Sheet 25 - Fixing Details Removed As Covered By Truss Design.

Revision B- 31/08/2017
 Sheet 17 - Clearances On Foundation Detail Updated.
 Clearances On Brick Rebate Detail Updated.
 Clearances On Bathroom Earth Detail Updated.
 Sheet 18 - Clearances On Foundation Sill Detail Updated.
 Sheet 20 - Garage Door Sill Detail Updated.
 Sheet 21 - Clearances On Foundation Detail Updated.
 Clearances On Hebel To Foundation Detail Updated.
 Clearances On Foundation Sill Detail Updated.
 Sheet 23 - Entry Beam To Wall Detail Updated.
 Sheet 27 - Durability Details Removed As Covered By Truss Design.

Sheet Index

| Layout ID | Layout Name |
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| 2 | Site Plan 1:200 |
| 3 | Site Plan 1:100 |
| 4 | Drainage Plan |
| 5 | Foundation Plan |
| 6 | Shrinkage Control Joints Plan |
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| 27 | Durability Details |
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| 31 | Treatment Plan |



Artist Impression

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McQuilkan-May Residence

Lot 229, Stage 5, Flemington, Lincoln



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Sediment Control Notes:
 1. All erosion and sediment control structures to be inspected each working day and maintained in good working order.

2. All ground cover vegetation outside the immediate building area to be preserved during the building phase.

3. All erosion and sediment control measures to be installed prior to commencement of major earthworks.

4. Stockpiles of clayey material to be covered with an impervious sheet.

5. Roof water downpipes to be connected to the permanent underground stormwater drainage system as soon as practical after the roof is laid.

Refer To Environment Canterbury Erosion and Sediment Control Guidelines for Small Sites For Further Information

Note:
 All work will comply with the New Zealand Health & Safety Employment Act through best practice guidelines of "Site Safe", all personnel under taking work on site to have a minimum "Site Safe Passport".

Note:
 Finished Floor Level
 225mm min above highest point on ground around dwelling position.

Entry Steps to floor level a maximum of 190mm as per NZBC D1 access.

Temporary security fencing provided to site in compliance with F5 of the NZBC.

Note:
 Levels are in terms of Lyttleton Vertical Datum 1937

Origin Of Levels:
 SS 11A (AA3J)
 RL = 9.39 LINZ Geodetic Database (May 2017)

Site Benchmark:
 Aluminium Plug In Footpath
 RL = 12.28m

NOTE:

These drawings are to be read in conjunction with the specification documents, engineering details/drawings, manufacturer's specifications and truss designer/manufacturer's drawings.

NZBC F5/AS1 Construction & Demolition Hazards Clause 1.1 Site Fences & Hoardings

1.1.1 Fences and hoardings shall extend at least 2.0 m in height from ground level on the side accessible to the public.

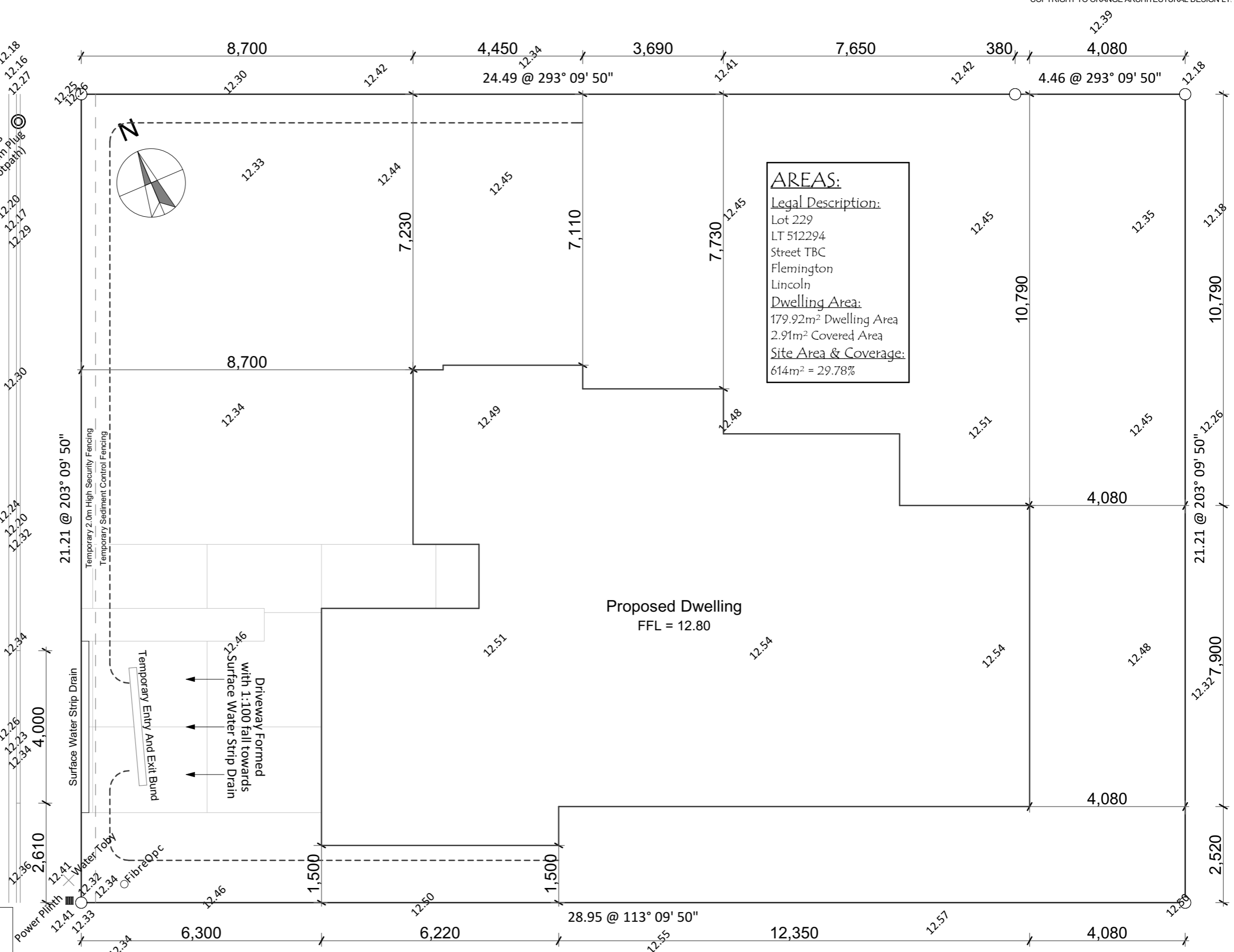
1.1.2 An acceptable fence may be constructed with galvanised chainlink netting having a maximum sized grid of 50 mm x 50 mm. Post spacing shall be a maximum of 2.5 m, and the gap between the bottom of the fence and ground no greater than 100mm.

* ALL CONSTRUCTION IS TO COMPLY WITH NEW ZEALAND BUILDING CODE AND ALL RELEVANT DOCUMENTS, AND WITH THE LOCAL TERRITORIAL AUTHORITY REGULATIONS.
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Site Datum
 RL=12.28
 (Aluminium Plug in Footpath)

Street

4.0m Vehicle Crossing



AREAS:
Legal Description:
 Lot 229
 LT 512294
 Street TBC
 Flemington
 Lincoln
Dwelling Area:
 179.92m² Dwelling Area
 2.91m² Covered Area
Site Area & Coverage:
 614m² = 29.78%

Scale 1:100

| | | | | |
|-----------------------------|---|------------------------|---------------------|--------------------|
| ORANGE ARCHITECTURAL | Project Name: McQuilkan-May Residence | Site Plan 1:100 | | Sheet: 3 |
| | Project Address: Lot 229, Stage 5, Flemington, Lincoln | Job No: 0717-060 | Date: 31/08/2017 | Of: 31 |
| | Consultant: N. James | Drawn: C. Barnfield | Revision: B | |

NOTE:

These drawings are to be read in conjunction with the specification documents, engineering details/drawings, manufacturer's specifications and truss designer/manufacturer's drawings.

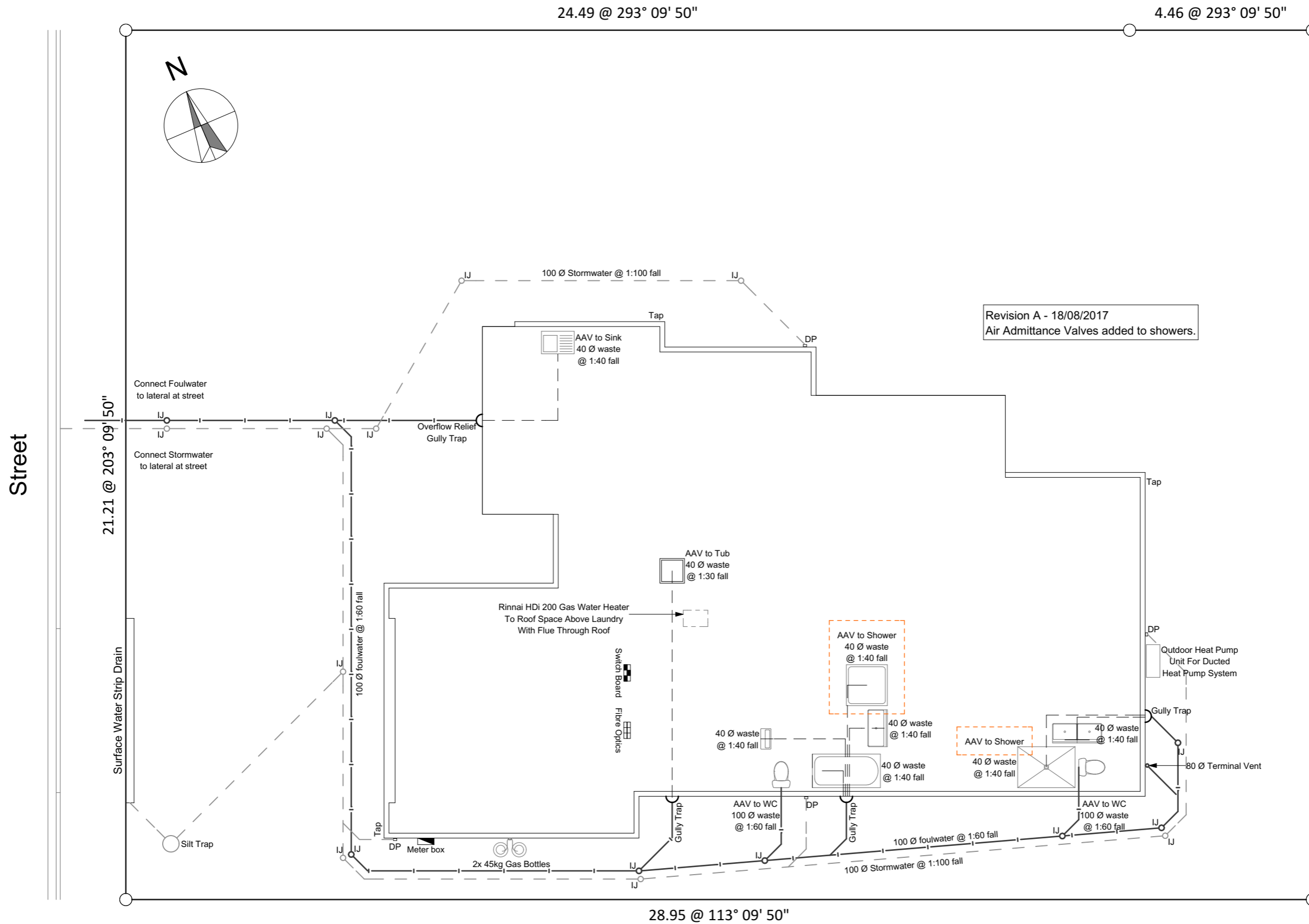
Water supply pipes:

Hot and cold water supply pipes shall be Dux-Secura system polybutylene. Hot water pipes shall be encased in ceiling batts or clad with Armourflex lagging.

SOIL PIPES & Min Falls

| | |
|-------------------|-----------------|
| Sewer | ~ 100 dia. 1:60 |
| Toilets | ~ 100 dia. 1:60 |
| Sinks, w/m | |
| bath, d/w, shower | ~40 dia. 1:40 |
| whb, vanities | ~40 dia. 1:40 |
| Tubs | ~40 dia. 1:30 |

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AREAS:
Legal Description:
 Lot 229
 LT 512294
 Street TBC
 Flemington
 Lincoln
Dwelling Area:
 179.92m² Dwelling Area
 2.91m² Covered Area
Site Area & Coverage:
 614m² = 29.78%

Scale 1:100

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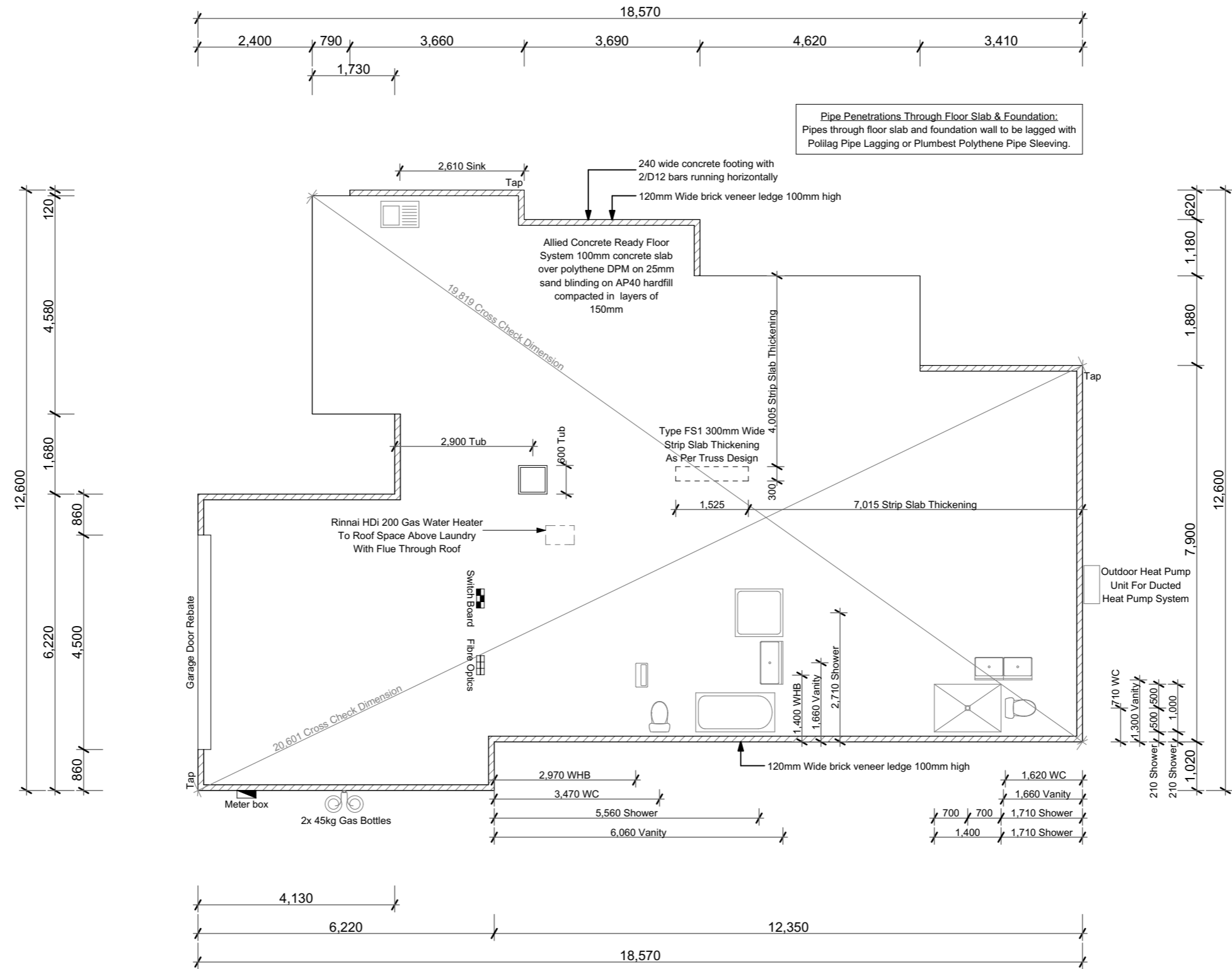


Project Name: McQuilkan-May Residence
 Project Address: Lot 229, Stage 5, Flemington, Lincoln

| | | |
|----------------------|---------------------|-------------|
| Drainage Plan | | Sheet: 4 |
| Job No: 0717-060 | Date: 31/08/2017 | of: 31 |
| Consultant: N. James | Drawn: C. Barnfield | Revision: B |

NOTE:
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Gas Bottles Notes:
Gas bottles to be restrained with chain and clips fixed to dwelling.
Gas bottles to sit upon a 100mm concrete plinth which is to sit a minimum 50mm above ground level.
Veneer weep holes within 1.0m of the gas bottles to be sealed.

BRICK VENEER CLADDING:
No length of brick veneer wall or return shall be less than 230mm measured from the external face of the wall.

AREAS:
Legal Description:
Lot 229
LT 512294
Street TBC
Flemington
Lincoln
Dwelling Area:
179.92m² Dwelling Area
2.91m² Covered Area
Site Area & Coverage:
614m² = 29.78%

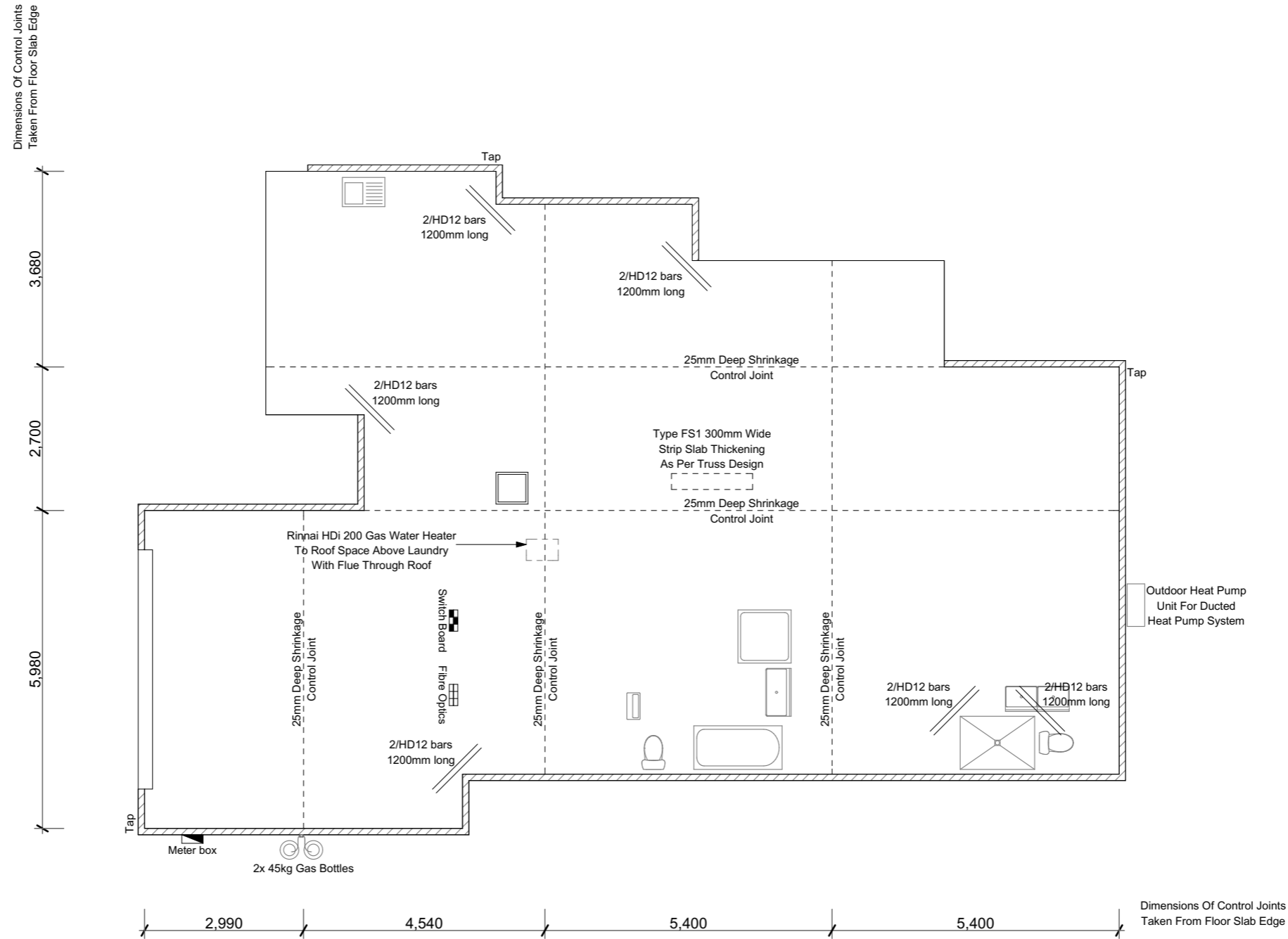
Scale 1:100

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| | | | | |
|------------------------------------|---|-------------------------|------------------------|--------------------|
| <p>ORANGE ARCHITECTURAL</p> | Project Name: McQuilkan-May Residence | Foundation Plan | | Sheet: 5 |
| | Project Address: Lot 229, Stage 5, Flemington, Lincoln | Job No: 0717-060 | Date: 31/08/2017 | Of: 31 |
| | | Consultant: N. James | Drawn: C. Barnfield | Revision: B |

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AREAS:
Legal Description:
Lot 229
LT 512294
Street TBC
Flemington
Lincoln
Dwelling Area:
179.92m² Dwelling Area
2.91m² Covered Area
Site Area & Coverage:
614m² = 29.78%

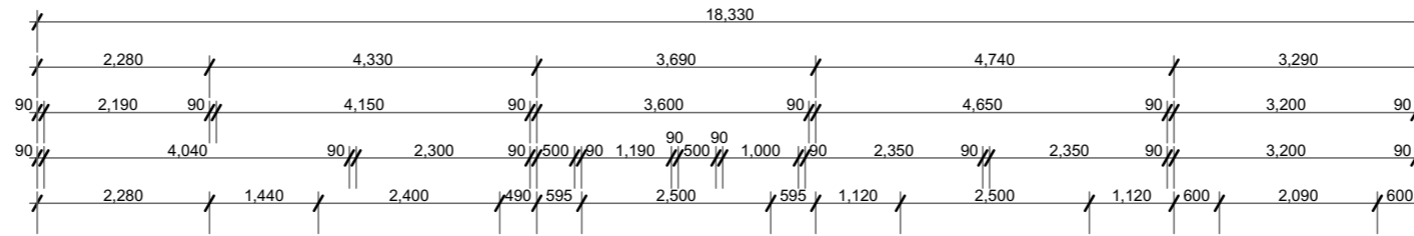
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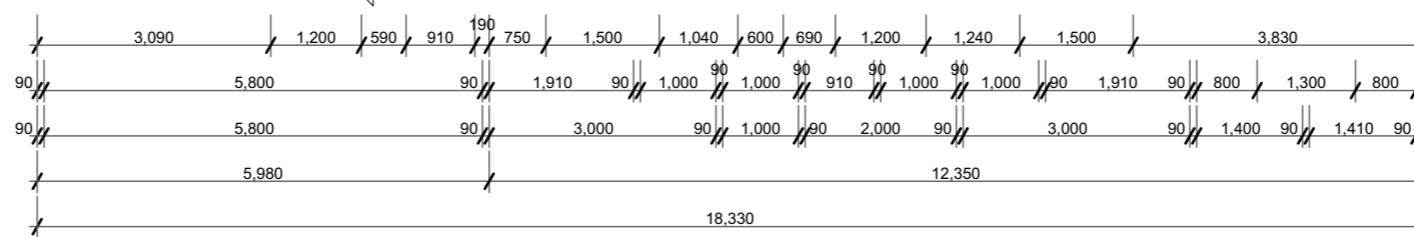
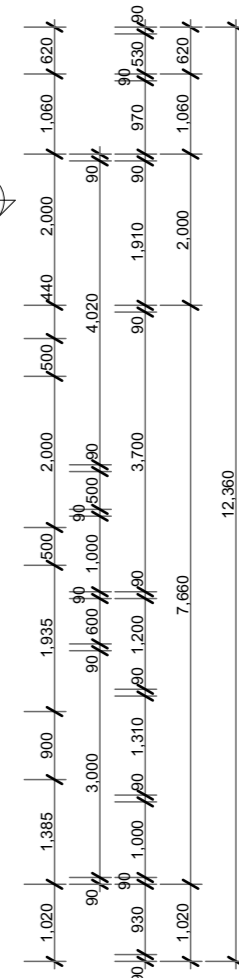
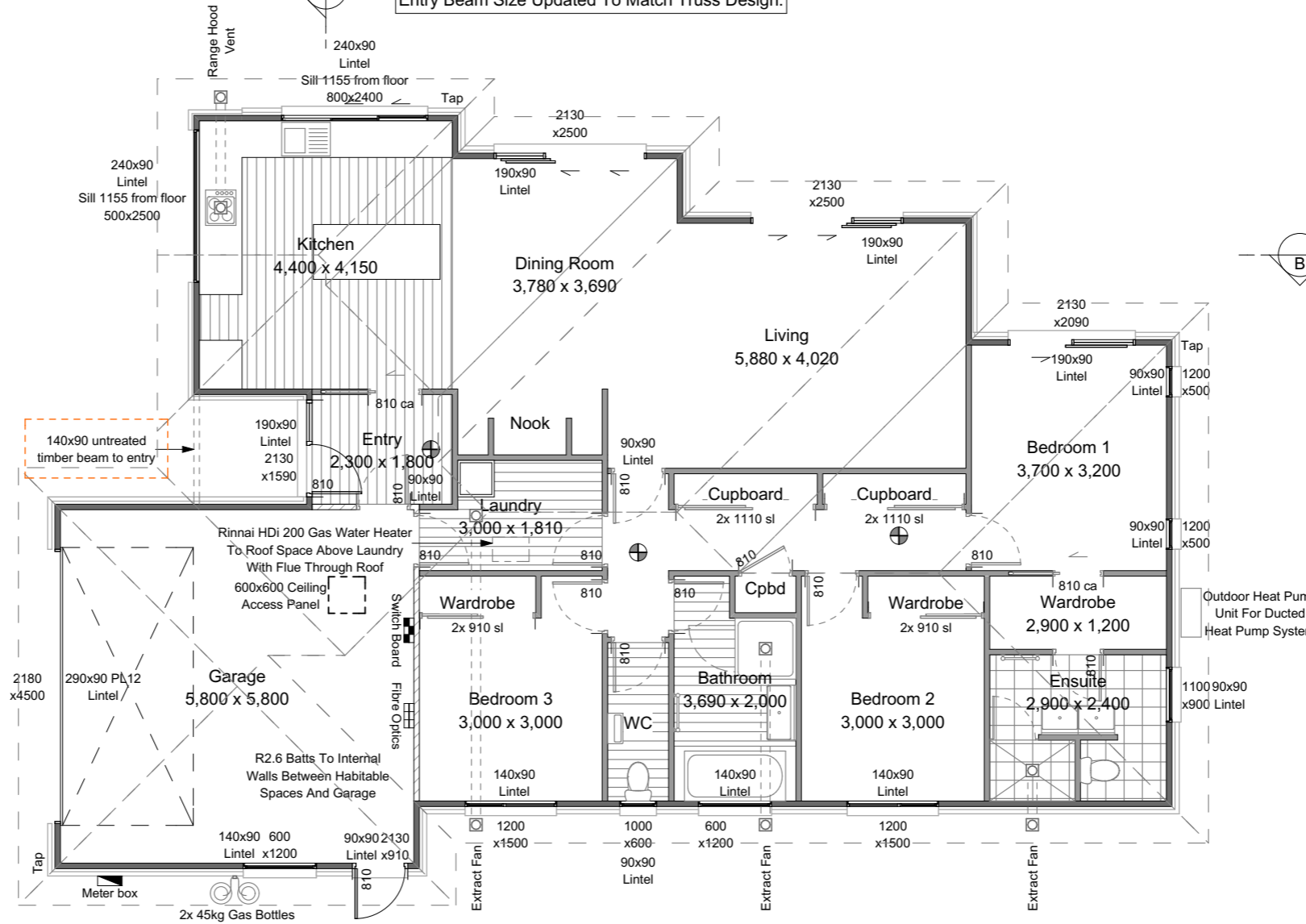
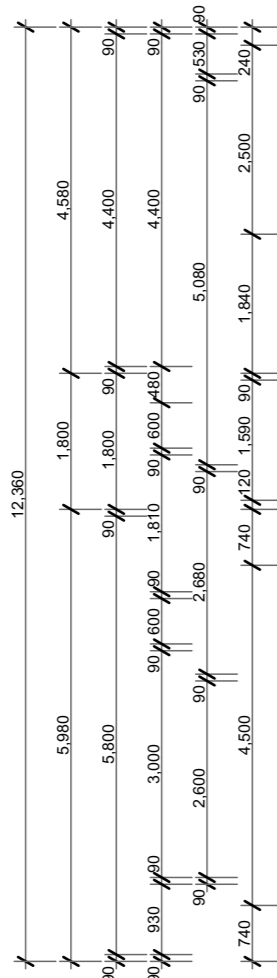
| | | | | |
|------------------------------------|--|-------------------------------|---------------------|--------------------|
| <p>ORANGE ARCHITECTURAL</p> | Project Name: McQuilkan-May Residence | Shrinkage Control Joints Plan | | Sheet: 6 |
| | Project Address: Lot 229, Stage 5, Flemington, Lincoln | Job No: 0717-060 | Date: 31/08/2017 | Of: 31 |
| | Consultant: N. James | Drawn: C. Barnfield | Revision: B | |

NOTE:
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Revision A - 18/08/2017
Entry Beam Size Updated To Match Truss Design.



Scale 1:100

| | |
|-----------|--------------|
| Sheet: | 7 |
| Job No: | 0717-060 |
| Date: | 31/08/2017 |
| Drawn: | N. James |
| Checked: | C. Barnfield |
| Revision: | B |

Project Name: McQuilkan-May Residence
Project Address: Lot 229, Stage 5, Flemington, Lincoln



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NOTE:

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NOTE:

All timber shall be VSG8 or better unless noted otherwise.

Brick Veneer External Walls:
90x45 Untreated Douglas Fir with Untreated bottom plates. Studs at 600crs with dwangs at 800crs.


Hebel External Walls:
90x45 H1.2 treated Douglas Fir with H1.2 treated bottom plates. Studs at 600crs with dwangs at 800crs.

Internal Walls:
90x45 Untreated Douglas Fir with Untreated bottom plates. Studs at 600crs with dwangs at 800crs.

Roof framing, trusses and ceiling joists:
Untreated Dougl's Fir.

All beam sizes shown are to be confirmed by the precut manufacturer and shall comply with NZS 3604: 2011.

NOTE:

- Smoke detectors to be installed throughout dwelling in compliance with F7/AS1 of the NZ building code.
- There must be a smoke detector within 3.0m of each bedroom door and to all escape paths. Smoke detectors to be mounted on ceiling not more than 300mm below highest part of room
-  denotes smoke detector

Downlights To Be CA80 Rated

Water supply pipes:

Hot and cold water supply pipes shall be Dux-Secura system polybutylene. Hot water pipes shall be encased in ceiling batts or clad with Armourflex lagging.

Gas Bottles Notes:

Gas bottles to be restrained with chain and clips fixed to dwelling.

Gas bottles to sit upon a 100mm concrete plinth which is to sit a minimum 50mm above ground level.

Veneer weep holes within 1.0m of the gas bottles to be sealed.

WET AREA FINISHES:

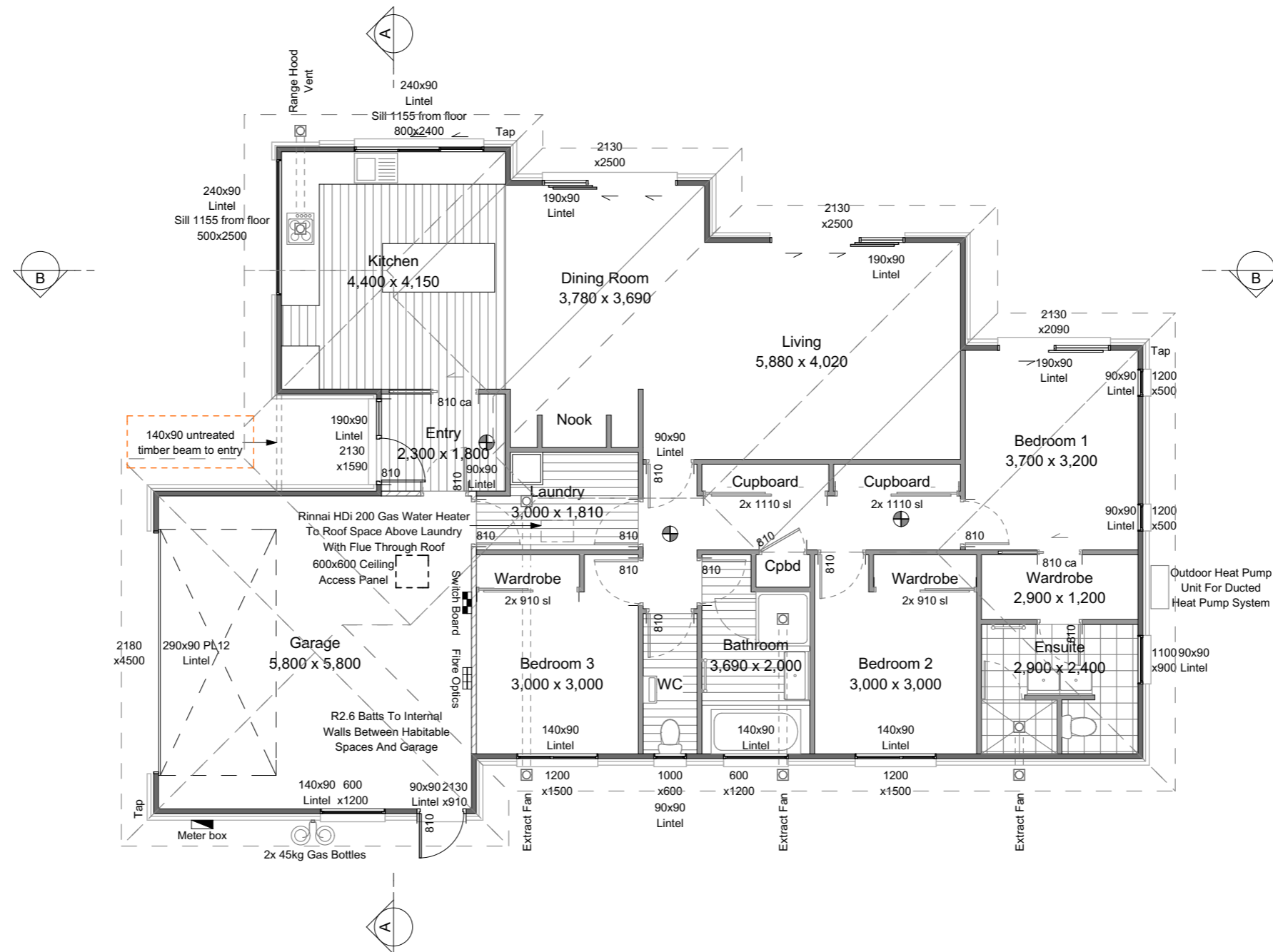
- Floor finish to bathroom, WC and kitchen is Vinyl Plank.
- Vinyl Plank to entry which is not a wet area.
- Floor finish to ensuite is Tiles.
- Wall and ceiling finishes are acrylic semi-gloss paint over Gib Aqualine linings.
- Bench tops are Formica.
- All to comply with NZBC E3/AS1 clause 3.

ACCESS ROUTES:

All external and internal access routes shall have an anti-slip surface complying with NZBC D1/AS1 table 2.

Revision A - 18/08/2017

Entry Beam Size Updated To Match Truss Design.



Scale 1:100

| | |
|-------------|--------------|
| Sheet: | 8 |
| Of: | 31 |
| Revision: | B |
| Date: | 31/08/2017 |
| Job No: | 0717-060 |
| Drawn: | N. James |
| Consultant: | C. Barnfield |

Project Name: McQuilkan-May Residence
Project Address: Lot 229, Stage 5, Flemington, Lincoln



AREAS:

Legal Description:

Lot 229
LT 512294
Street TBC
Flemington
Lincoln

Dwelling Area:

179.92m² Dwelling Area
2.91m² Covered Area

Site Area & Coverage:

614m² = 29.78%

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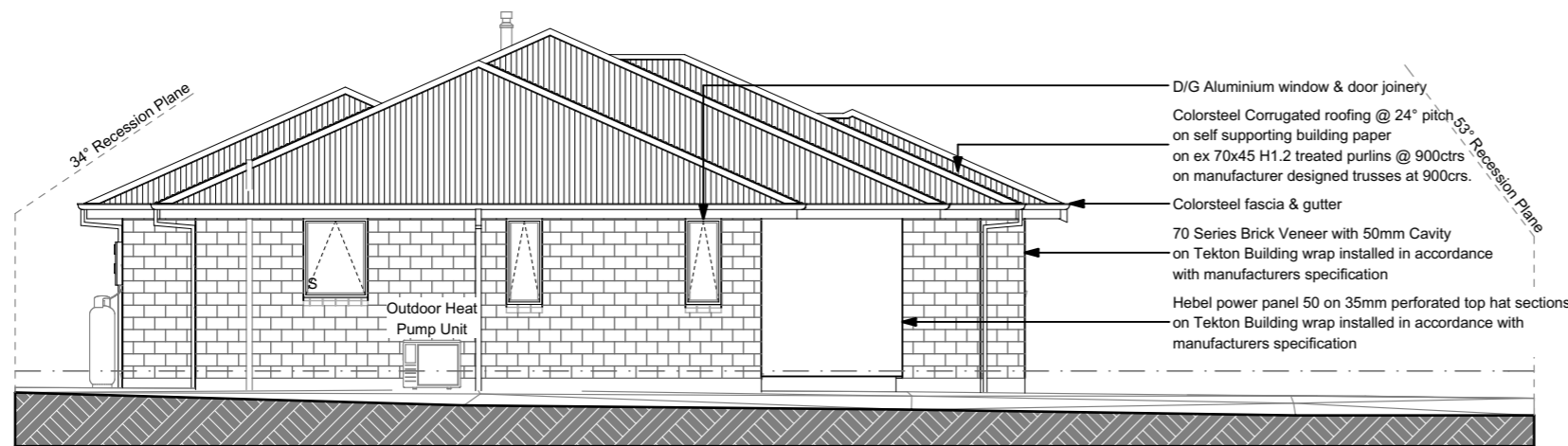
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North Elevation ~ 1:100

- Note:**
1. Door and window opening sizes are approximate.
 2. All opening sizes are to be measured on site prior to manufacture of doors and windows.
 3. WANZ support bar to full length of all doors and windows.
 4. 's' denotes safety glass in accordance with NZS 4223
 5. All glazing except garage to have an R-value of 0.26 or better

| BUILDING ENVELOPE RISK MATRIX | | |
|-------------------------------|---------------|------------|
| May Residence | | |
| Risk Factor | Risk Severity | Risk Score |
| Wind zone (per NZS 3604) | High risk | 1 |
| Number of storeys | Low risk | 0 |
| Roof/wall intersection design | Low risk | 0 |
| Eaves width | Medium risk | 1 |
| Envelope complexity | Medium risk | 1 |
| Deck design | Low risk | 0 |
| Total Risk Score: | | 3 |



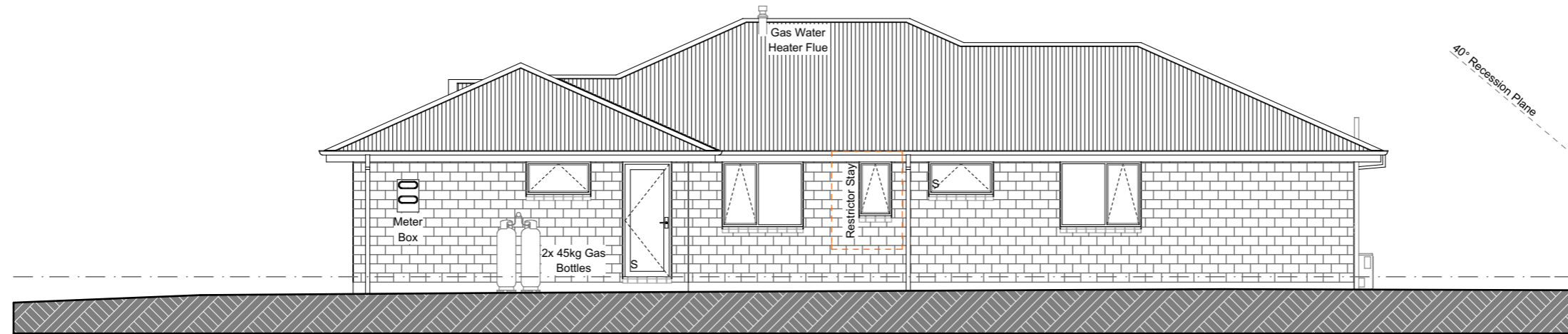
East Elevation ~ 1:100

| H1 Schedule Method Calculations | | |
|--|------------------------|-----------------------------|
| Area of walls and glazing: | Wall Area ² | Glazing Area m ² |
| South Elevation: | 39.40 | 4.92 |
| West Elevation: | 27.84 | 4.64 |
| East Elevation: | 27.84 | 2.19 |
| Total: | 95.08 | 11.75 |
| Percentage of Glazing Area to Wall Area: | 12.35% | (30% Max) |
| South/East/West Elevations | 95.08 | 11.75 |
| North Elevation | 39.40 | 17.02 |
| Total: | 134.48 | 28.77 |
| Percentage of Glazing Area to Wall Area: | 21.39% | (30% Max) |

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South Elevation ~ 1:100

Revision A - 18/08/2017
Restrictor Stay Added To WC Window.

Note:
1. Door and window opening sizes are approximate.
2. All opening sizes are to be measured on site prior to manufacture of doors and windows.
3. WANZ support bar to full length of all doors and windows.
4. 's' denotes safety glass in accordance with NZS 4223
5. All glazing except garage to have an R-value of 0.26 or better

| BUILDING ENVELOPE RISK MATRIX | | |
|-------------------------------|---------------|------------|
| May Residence | | |
| Risk Factor | Risk Severity | Risk Score |
| Wind zone (per NZS 3604) | High risk | 1 |
| Number of storeys | Low risk | 0 |
| Roof/wall intersection design | Low risk | 0 |
| Eaves width | Medium risk | 1 |
| Envelope complexity | Medium risk | 1 |
| Deck design | Low risk | 0 |
| Total Risk Score: | | 3 |



West Elevation ~ 1:100

| H1 Schedule Method Calculations | | |
|--|------------------------|-----------------------------|
| Area of walls and glazing: | Wall Area ² | Glazing Area m ² |
| South Elevation: | 39.40 | 4.92 |
| West Elevation: | 27.84 | 4.64 |
| East Elevation: | 27.84 | 2.19 |
| Total: | 95.08 | 11.75 |
| Percentage of Glazing Area to Wall Area: | 12.35% | (30% Max) |
| South/East/West Elevations | 95.08 | 11.75 |
| North Elevation | 39.40 | 17.02 |
| Total: | 134.48 | 28.77 |
| Percentage of Glazing Area to Wall Area: | 21.39% | (30% Max) |

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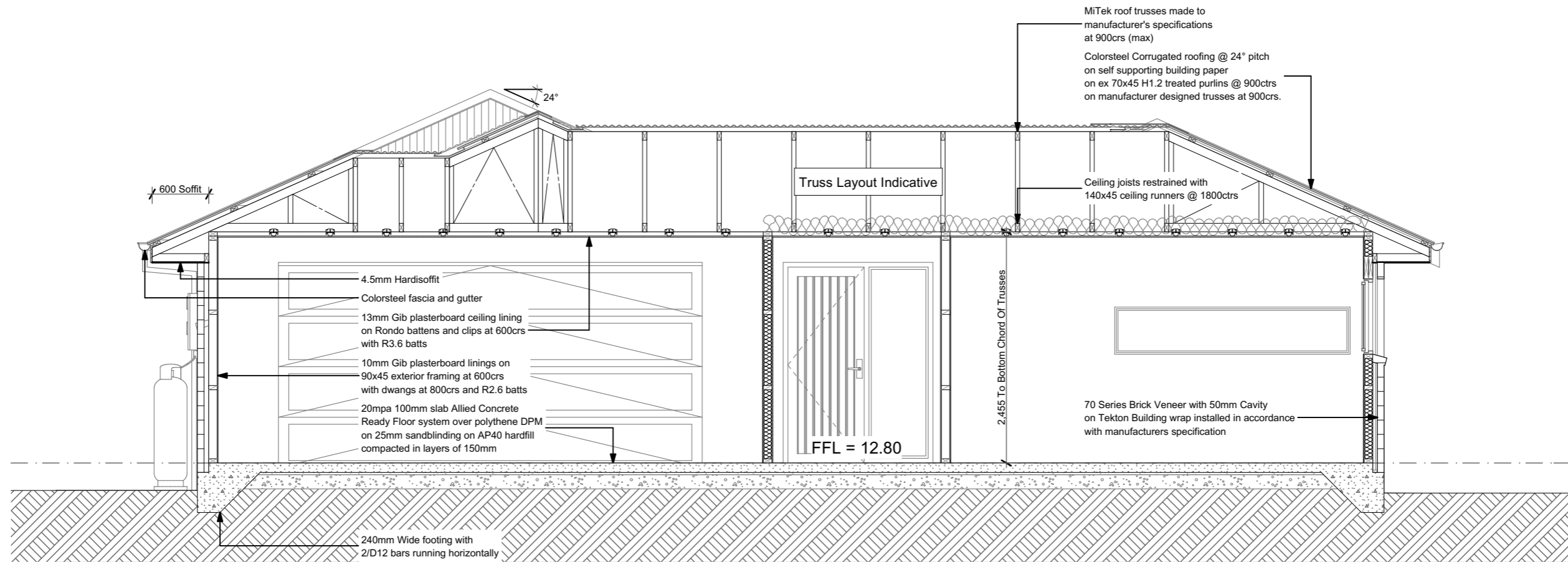
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| | | | | | |
|------------------|---------------------------------------|--|-------------|--------------|-----------|
| Project Name: | McQuilkan-May Residence | | Elevations | | Sheet: |
| Project Address: | Lot 229, Stage 5, Flemington, Lincoln | | Job No: | 0717-060 | Date: |
| | | | | 31/08/2017 | 10 |
| | | | Consultant: | N. James | Drawn: |
| | | | | C. Barnfield | Revision: |
| | | | | | B |

NOTE:
These drawings are to be read in conjunction with the specification documents, engineering details/drawings, manufacturer's specifications and truss designer/manufacturer's drawings.



Section A-A Scale of 1:50

NOTE:
All timber shall be VSG8 or better unless noted otherwise.

Brick Veneer External Walls:
90x45 Untreated Douglas Fir with Untreated bottom plates. Studs at 600crs with dwangs at 800crs.

Hebel External Walls:
90x45 H1.2 treated Douglas Fir with H1.2 treated bottom plates. Studs at 600crs with dwangs at 800crs.

Internal Walls:
90x45 Untreated Douglas Fir with Untreated bottom plates. Studs at 600crs with dwangs at 800crs.

Roof framing, trusses and ceiling joists:
Untreated Dougl's Fir.

All beam sizes shown are to be confirmed by the precut manufacturer and shall comply with NZS 3604: 2011.

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Scale 1:50

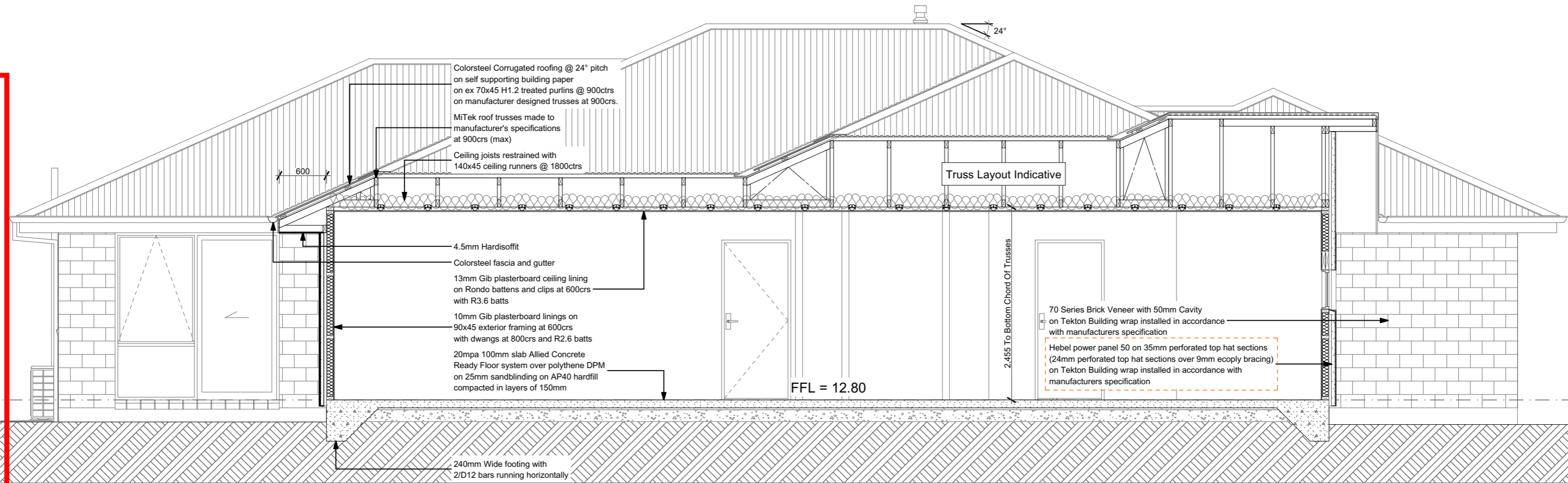
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| | | | | |
|--|--|-------------------------|------------------------|----------------|
| Project Name: McQuilkan-May Residence | | Cross Section | | Sheet: 11 |
| Project Address: Lot 229, Stage 5, Flemington, Lincoln | | Job No: 0717-060 | Date: 31/08/2017 | Of: 31 |
| | | Consultant: N. James | Drawn: C. Barnfield | Revision: B |

NOTE:
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Section B-B Scale of 1:50

NOTE:
All timber shall be VSG8 or better unless noted otherwise.

Brick Veneer External Walls:
90x45 Untreated Douglas Fir with Untreated bottom plates. Studs at 600ctrs with dwangs at 800ctrs.

Hebel External Walls:
90x45 H1.2 treated Douglas Fir with H1.2 treated bottom plates. Studs at 600ctrs with dwangs at 800ctrs.

Internal Walls:
90x45 Untreated Douglas Fir with Untreated bottom plates. Studs at 600ctrs with dwangs at 800ctrs.

Roof framing, trusses and ceiling joists:
Untreated Dougls Fir.

All beam sizes shown are to be confirmed by the precut manufacturer and shall comply with NZS 3604: 2011.

Revision A - 18/08/2017
Hebel Perforated Top Hat Size Updated.

Scale 1:50

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| | | | | |
|--|--|-------------------------|------------------------|----------------|
| Project Name: McQuilkan-May Residence | | Cross Section | | Sheet: 12 |
| Project Address: Lot 229, Stage 5, Flemington, Lincoln | | Job No: 0717-060 | Date: 31/08/2017 | Of: 31 |
| | | Consultant: N. James | Drawn: C. Barnfield | Revision: B |

NOTE:
 These drawings are to be read in conjunction with the specification documents, engineering details/drawings, manufacturer's specifications and truss designer/manufacturer's drawings.

GIB EzyBrace® Bracing Software



Demand Calculation Sheet

Job Details

| | |
|---------------------|---------------------------------|
| Name: | May Residence |
| Street and Number: | |
| Lot and DP Number: | Lot 229, LT 512294 |
| City/Town/District: | Flemington, Lincoln |
| Designer: | C. Barnfield |
| Company: | Orange Architectural Design Ltd |
| Date: | |

Building Specification

| | |
|--------------------------------------|-------|
| Number of Storeys | 1 |
| Floor Loading | 2 kPa |
| Foundation Type | Slab |
| Single | |
| Cladding Weight | Heavy |
| Roof Weight | Light |
| Room in Roof Space | No |
| Roof Pitch (degrees) | 24 |
| Roof Height above Eaves (m) | 1.5 |
| Building Height to Apex (m) | 4.5 |
| Ground to Lower Floor (m) | 0.25 |
| Average Stud Height (m) | 2.4 |
| Building Length (m) | 18.57 |
| Building Width (m) | 12.60 |
| Building Plan Area (m ²) | 180 |

Building Location

| | |
|-------------------------|---|
| Wind Zone = High | Earthquake Zone 2 |
| Wind Region: A | Soil Type: D & E (Deep to Very Soft) |
| Lee Zone: No | Annual Prob. of Exceedance: 1 in 500 (NZS3604:2011 Default) |
| Ground Roughness: Open | |
| Site Exposure: Exposed | |
| Topography Class: T1 | |

Bracing Units required for Wind

| | Along | Across |
|--------------|-------|--------|
| Single Level | 598 | 756 |

Bracing Units required for Earthquake

| | Along & Across |
|--------------|----------------|
| Single Level | 1207 |

GIB Ezybrace® Version 8/16

Single Level Along Resistance Sheet

Job Name: May Residence

| | | | | | | | | | Wind | EQ |
|------------------------|---------|------------|-----------------|--------------|-----------|----------|------------|----------|----------|--------|
| | | | | | | | | | Demand | |
| | | | | | | | | | 598 | 1207 |
| | | | | | | | | | Achieved | |
| Line | Element | Length (m) | Angle (degrees) | Stud Ht. (m) | Type | Supplier | Wind (BUs) | EQ (BUs) | 1638 | 1737 |
| | | | | | | | | | 274% | 144% |
| A | 1 | 1.20 | | 2.4 | EP1 (1.2) | CHH | 144 | 162 | | |
| | 2 | 0.40 | | 2.4 | EP1 (0.4) | CHH | 32 | 38 | | |
| | 3 | 0.90 | | 2.4 | EP1 (0.6) | CHH | 86 | 95 | | |
| | 4 | 0.90 | | 2.4 | EP1 (0.6) | CHH | 86 | 95 | | |
| External Length = 12.9 | | | | | | | | | 347 OK | 389 OK |
| B | 1 | 1.20 | | 2.4 | EP1 (1.2) | CHH | 144 | 162 | | |
| | 2 | 0.40 | | 2.4 | EP1 (0.4) | CHH | 32 | 38 | | |
| | 3 | 0.40 | | 2.4 | EP1 (0.4) | CHH | 32 | 38 | | |
| External Length = 5.4 | | | | | | | | | 208 OK | 238 OK |
| C | 1 | 1.20 | | 2.4 | EP1 (1.2) | CHH | 144 | 162 | | |
| | 2 | 1.20 | | 2.4 | EP1 (1.2) | CHH | 144 | 162 | | |
| | 3 | 2.30 | | 2.4 | GS1-N | GIB® | 159 | 138 | | |
| | 4 | 1.00 | | 2.4 | GS1-N | GIB® | 65 | 60 | | |
| External Length = 4.1 | | | | | | | | | 512 OK | 522 OK |
| D | 1 | 3.00 | | 2.4 | GS1-N | GIB® | 207 | 180 | | |
| | 2 | 0.80 | | 2.4 | EP1 (0.6) | CHH | 76 | 84 | | |
| | 3 | 1.20 | | 2.4 | EP1 (1.2) | CHH | 144 | 162 | | |
| | 4 | 1.20 | | 2.4 | EP1 (1.2) | CHH | 144 | 162 | | |
| External Length = 18.6 | | | | | | | | | 571 OK | 588 OK |

Custom Wall Elements

| | | | | |
|-----|-----------|-----|-----|-----|
| CHH | EP1 (1.2) | 1.2 | 120 | 135 |
| CHH | EP1 (0.6) | 0.6 | 95 | 105 |
| CHH | EP1 (0.4) | 0.4 | 80 | 95 |

Single Level Across Resistance Sheet

Job Name: May Residence

| | | | | | | | | | Wind | EQ |
|-----------------------|---------|------------|-----------------|--------------|-----------|----------|------------|----------|----------|--------|
| | | | | | | | | | Demand | |
| | | | | | | | | | 756 | 1207 |
| | | | | | | | | | Achieved | |
| Line | Element | Length (m) | Angle (degrees) | Stud Ht. (m) | Type | Supplier | Wind (BUs) | EQ (BUs) | 1605 | 1617 |
| | | | | | | | | | 212% | 134% |
| M | 1 | 0.50 | | 2.4 | BLP-H | GIB® | 64 | 69 | | |
| | 2 | 0.50 | | 2.4 | BLP-H | GIB® | 64 | 69 | | |
| External Length = 6.2 | | | | | | | | | 127 OK | 139 OK |
| N | 1 | 1.20 | | 2.4 | EP1 (1.2) | CHH | 144 | 162 | | |
| External Length = 4.6 | | | | | | | | | 144 OK | 162 OK |
| O | 1 | 0.40 | | 2.4 | EP1 (0.4) | CHH | 32 | 38 | | |
| | 2 | 1.80 | | 2.4 | GS1-N | GIB® | 124 | 108 | | |
| | 3 | 3.00 | | 2.4 | GS1-N | GIB® | 207 | 180 | | |
| | 4 | 0.80 | | 2.4 | EP1 (0.6) | CHH | 76 | 84 | | |
| External Length = 1.6 | | | | | | | | | 439 OK | 410 OK |
| P | 1 | 0.80 | | 2.4 | EP1 (0.6) | CHH | 76 | 84 | | |
| | 2 | 2.60 | | 2.4 | GS1-N | GIB® | 179 | 156 | | |
| External Length = 1.1 | | | | | | | | | 255 OK | 240 OK |
| Q | 1 | 1.20 | | 2.4 | EP1 (1.2) | CHH | 144 | 162 | | |
| | 2 | 3.00 | | 2.4 | GS1-N | GIB® | 207 | 180 | | |
| External Length = 2.0 | | | | | | | | | 351 OK | 342 OK |
| R | 1 | 1.20 | | 2.4 | EP1 (1.2) | CHH | 144 | 162 | | |
| | 2 | 1.20 | | 2.4 | EP1 (1.2) | CHH | 144 | 162 | | |
| External Length = 7.9 | | | | | | | | | 288 OK | 324 OK |

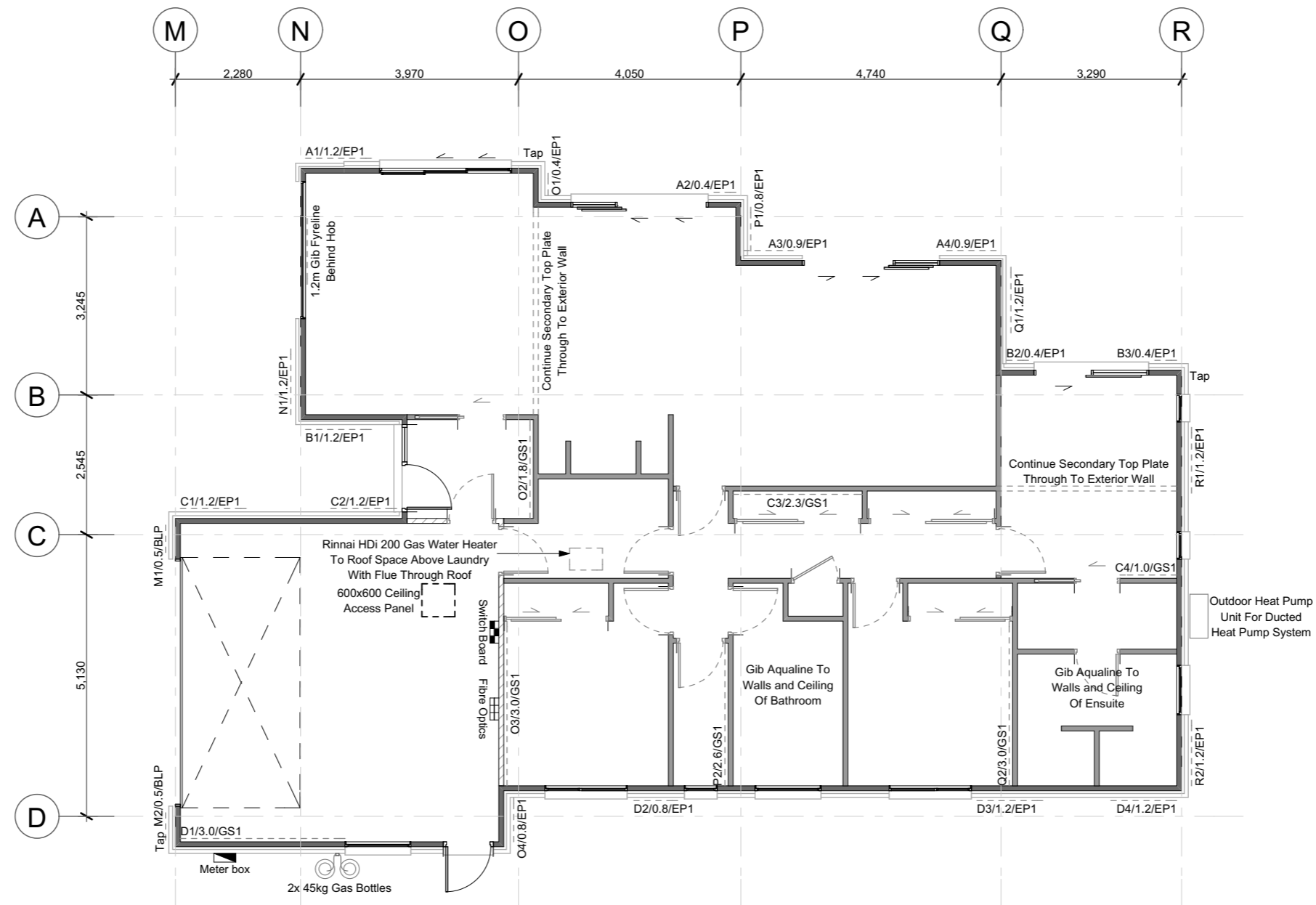
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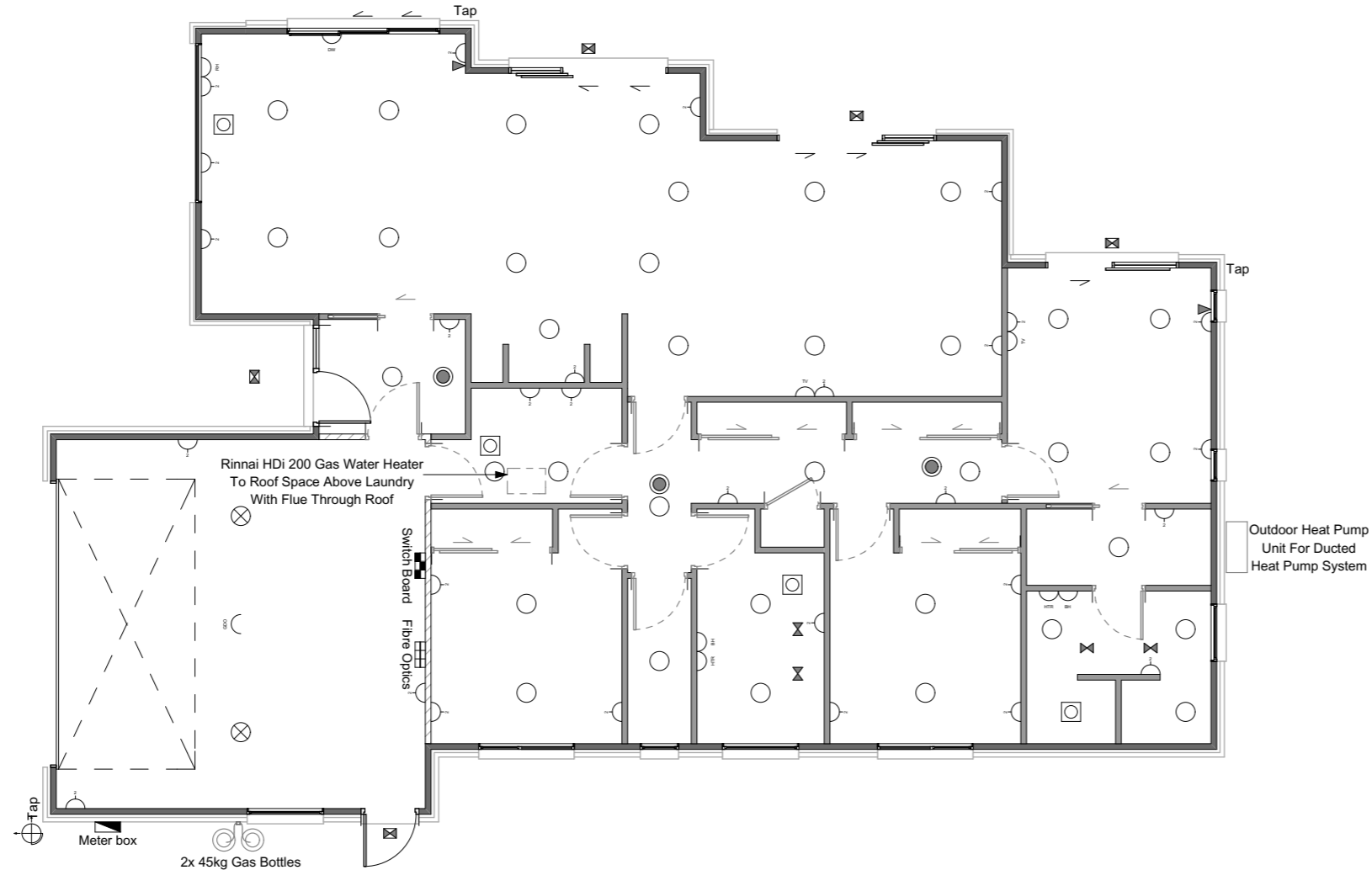
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| | | | | | | |
|--|------------------|---------------------------------------|--------|--------------|-------------|------------|
| | Project Name: | McQuilkan-May Residence | | Sheet: | 14 | |
| | Project Address: | Lot 229, Stage 5, Flemington, Lincoln | | Job No: | | 0717-060 |
| | | | | Date: | | 31/08/2017 |
| | Consultant: | N. James | Drawn: | C. Barnfield | Of: 31 | |
| | | | | | Revision: B | |

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Downlights To Be CA80 Rated



Electrical Key

- | | | | |
|---|------------------------|---|------------------------|
| ⌋ | Double Power Point | ● | Exterior Up-Down Light |
| ⊠ | Halogen Light Fitting | ⌋ | Dish Washer Connection |
| ○ | CA 80 Light Fitting | ⌋ | Bathroom Heater |
| ⊗ | Batten Holder | ⌋ | Hot Water Cylinder |
| ⊠ | Outside Light Fitting | ⌋ | Heated Towel Rail |
| ⊠ | Outside Light & Sensor | ⌋ | Garage Door Opener |
| ⊠ | Meter Board | ⊠ | Extract Fan |
| ⊠ | Switch Board | ⊠ | Smoke Detector |
| ⌋ | Range/Hob Connection | ⌋ | Phone Connection |
| ⌋ | TV Point | | |

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Scale 1:100

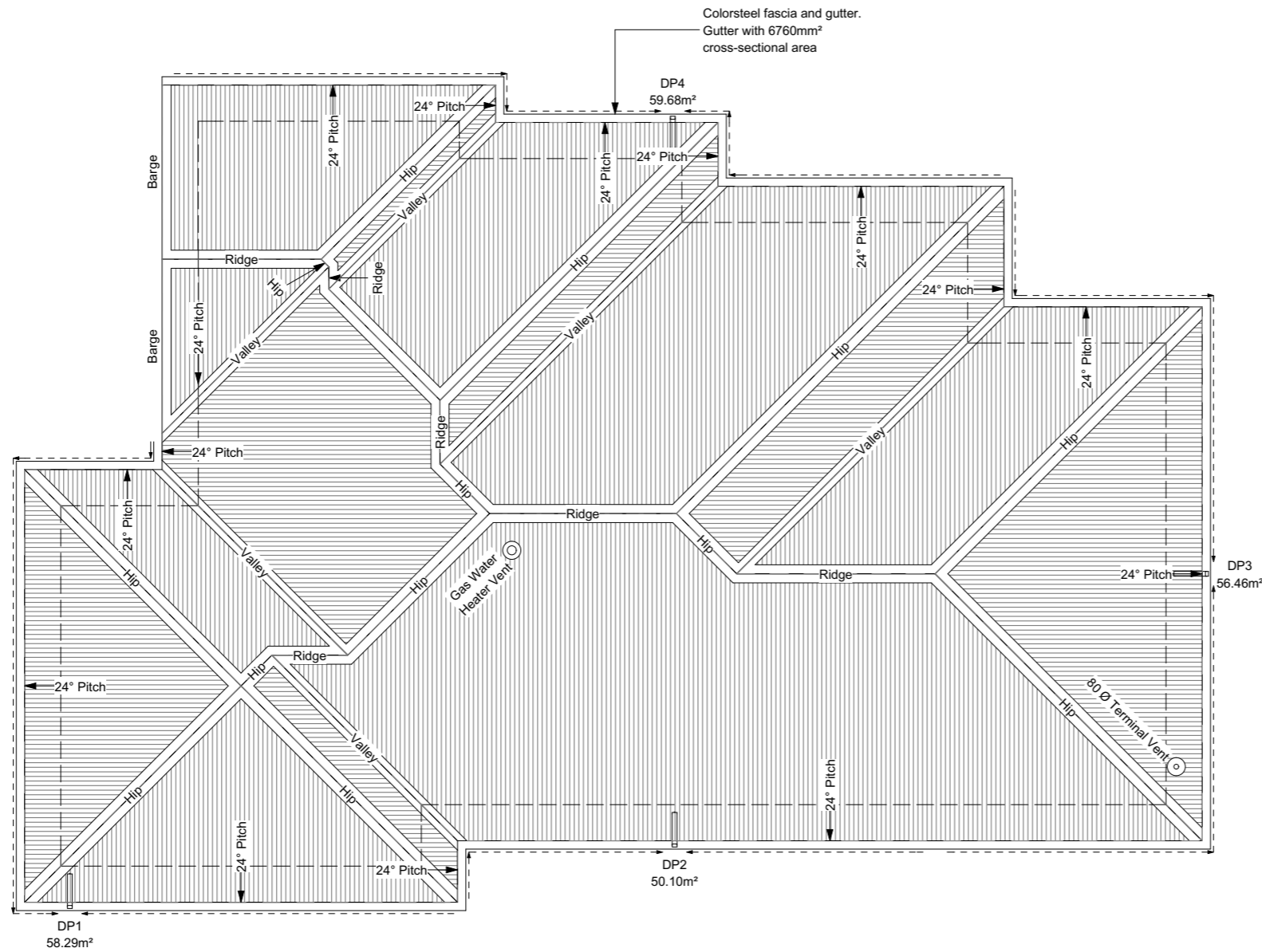
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| | | | | | | | | |
|--|------------------|---------------------------------------|----------|-----------------|--------------|--------|------------|-----------|
| | Project Name: | McQuilkan-May Residence | | Electrical Plan | | Sheet: | | |
| | Project Address: | Lot 229, Stage 5, Flemington, Lincoln | | Job No: | 0717-060 | Date: | 31/08/2017 | 15 |
| | | Consultant: | N. James | Drawn: | C. Barnfield | Of: | 31 | Revision: |

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Dwelling Roof:
Colorsteel Corrugated roofing @ 24° pitch on self supporting building paper on ex 70x45 H1.2 treated purlins @ 900ctrs on manufacturer design trusses @ 900ctrs.

600mm Width Eaves off outside edge of framing.

Refer to manufacturer's documentation for roof bracing details, and any specific lintel requirements regarding girder trusses.

Note:
Down pipes are to be as indicated 75x50mm (Capacity of 60m² roof plan area) (Roof pitch 0-25°)

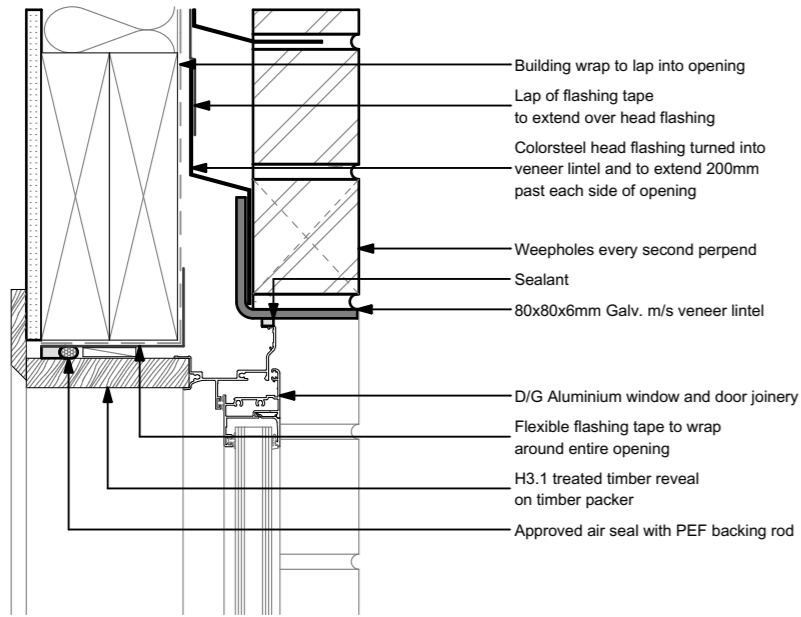
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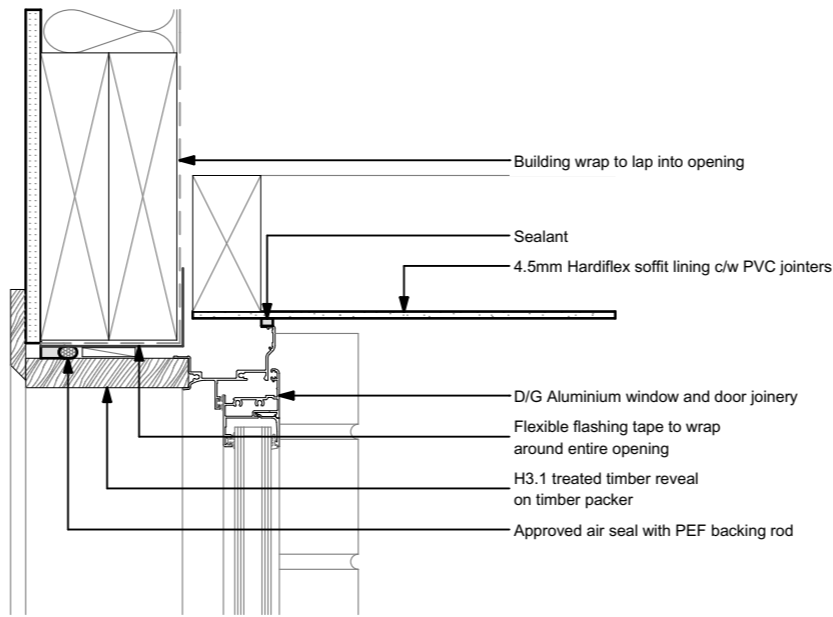


| | | | | |
|--|------------------------|---------------------|---------------------|---------------------|
| Project Name: McQuilkan-May Residence | | Roof Plan | | Sheet: 16 |
| Project Address: Lot 229, Stage 5, Flemington, Lincoln | | Job No: 0717-060 | Date: 31/08/2017 | Of: 31 |
| Consultant: N. James | Drawn: C. Barnfield | Revision: B | | |

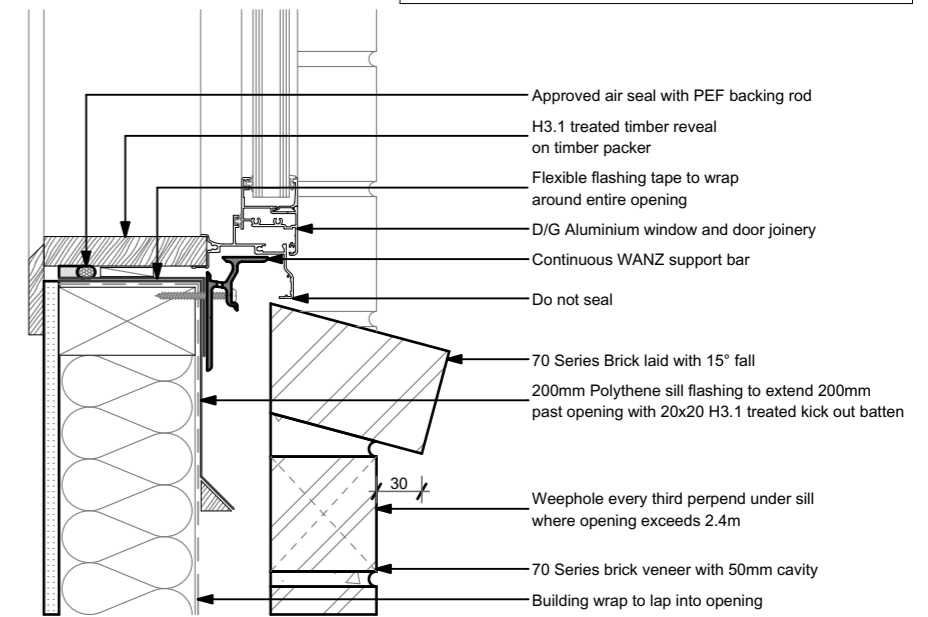
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Head To Brick Detail
Scale 1:5



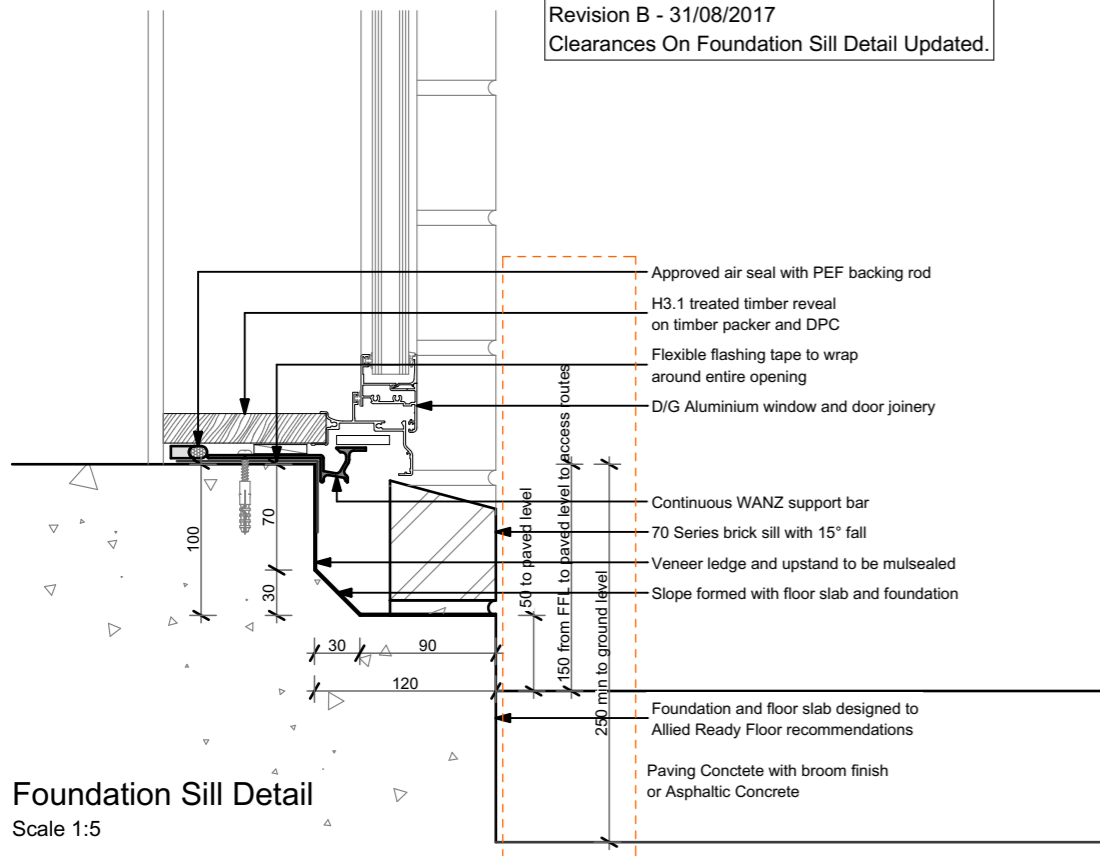
Head To Soffit Detail
Scale 1:5



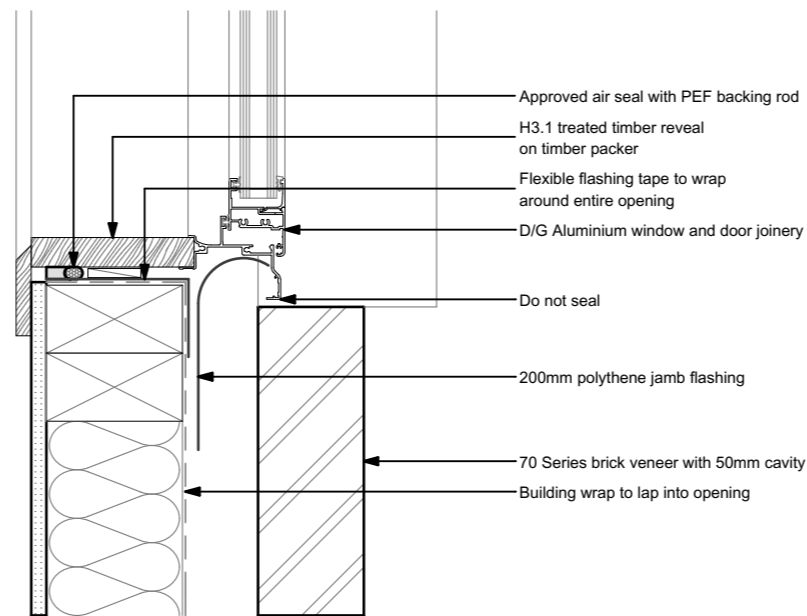
Sill Detail
Scale 1:5

Revision A - 18/08/2017
Clearances To Paved Ground Noted On Foundation Sill Detail.

Revision B - 31/08/2017
Clearances On Foundation Sill Detail Updated.



Foundation Sill Detail
Scale 1:5



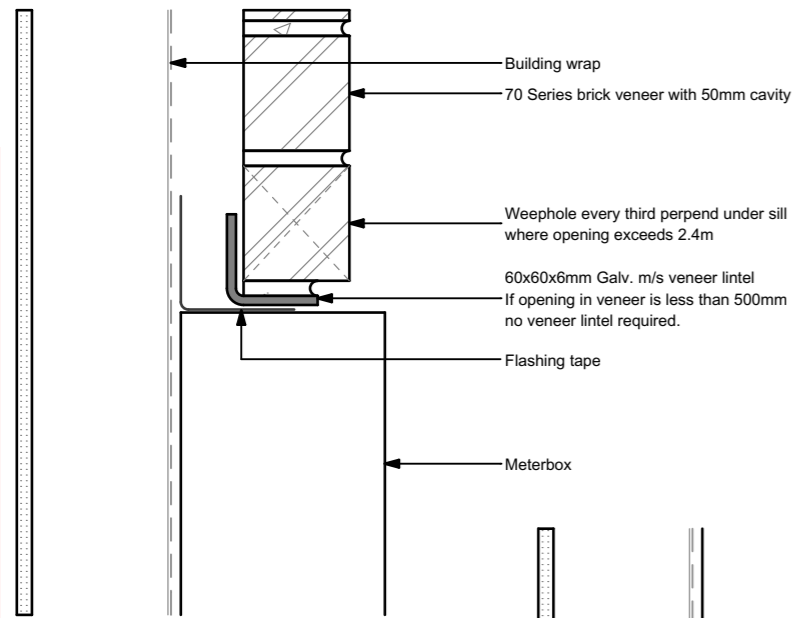
Jamb Detail
Scale 1:5

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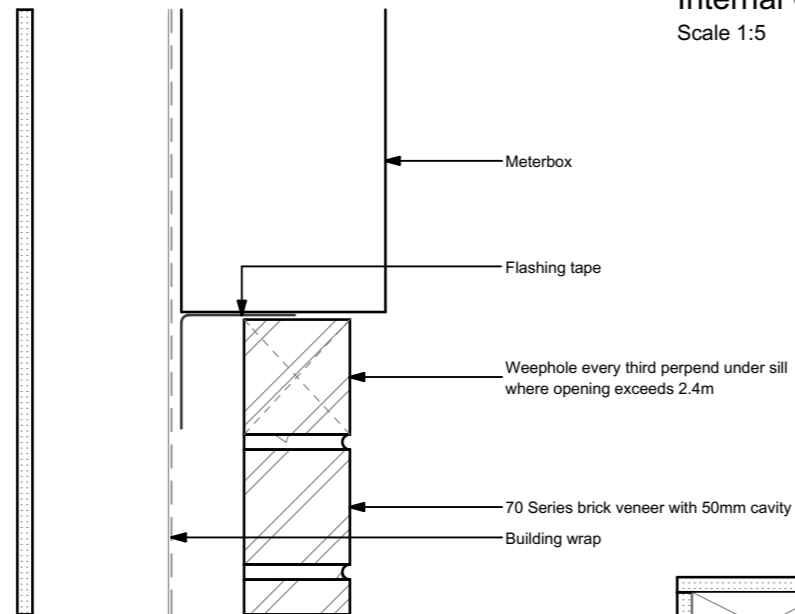
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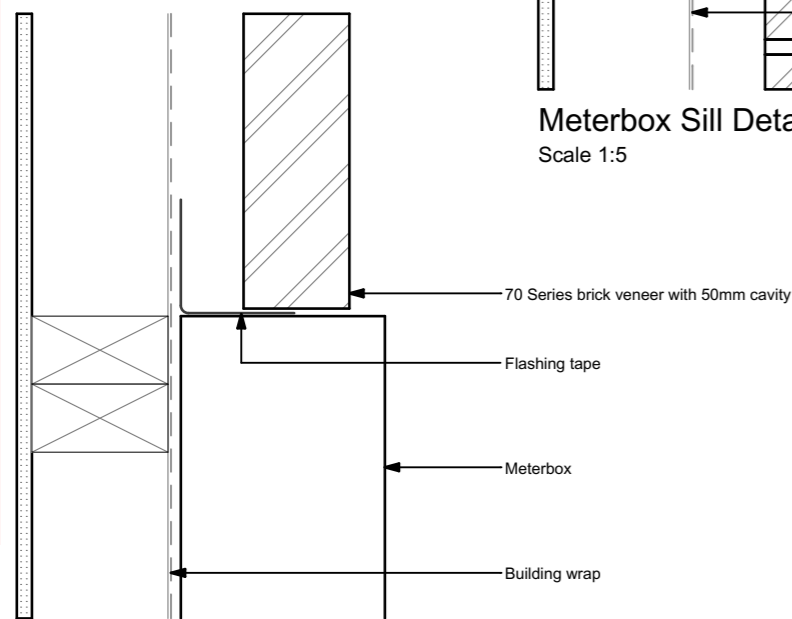
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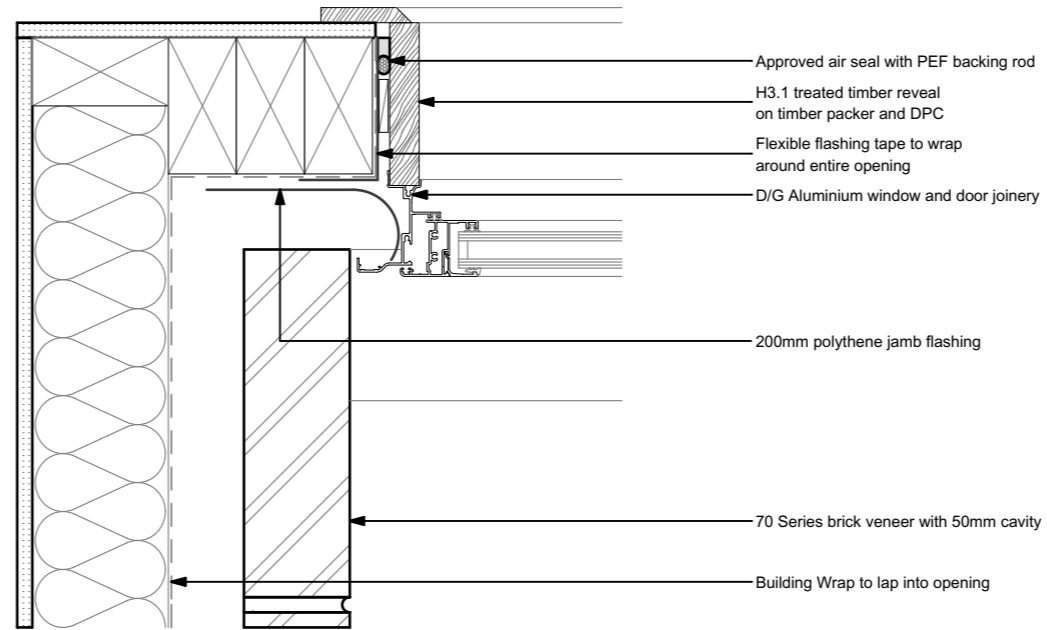
Meterbox Head Detail
Scale 1:5



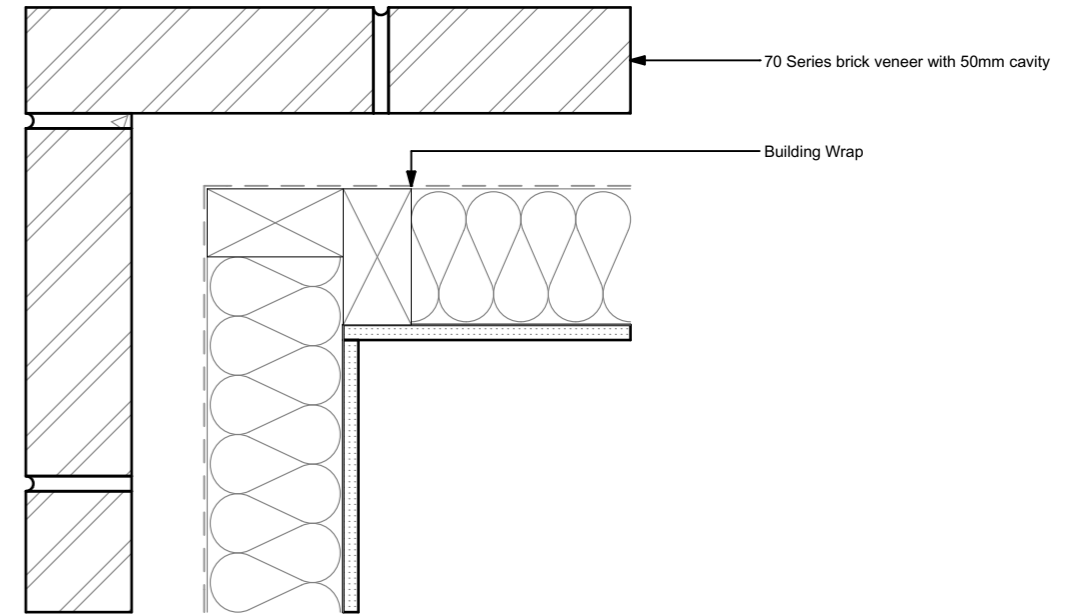
Meterbox Sill Detail
Scale 1:5



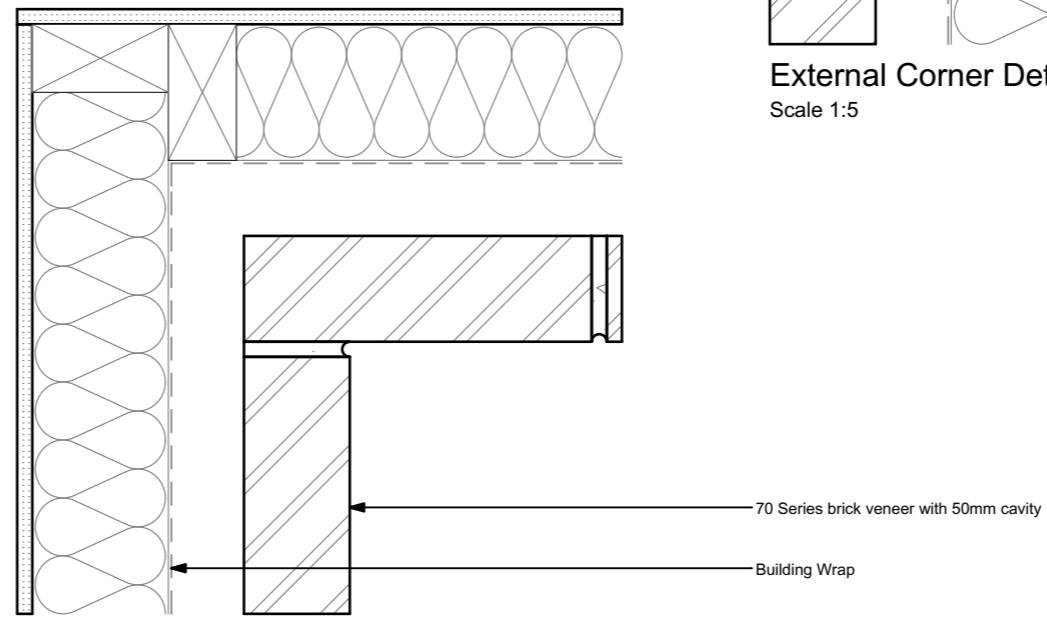
Meterbox Jamb Detail
Scale 1:5



Internal Corner Jamb Detail
Scale 1:5



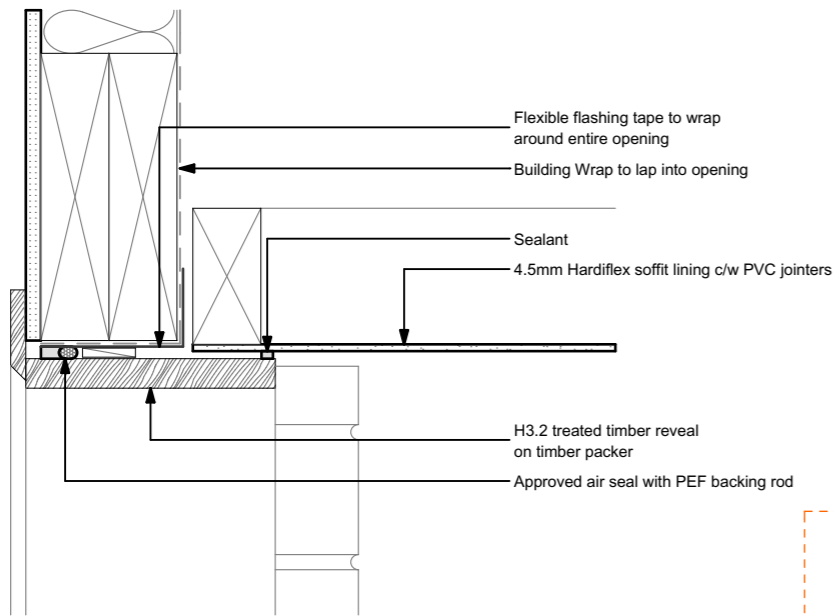
External Corner Detail
Scale 1:5



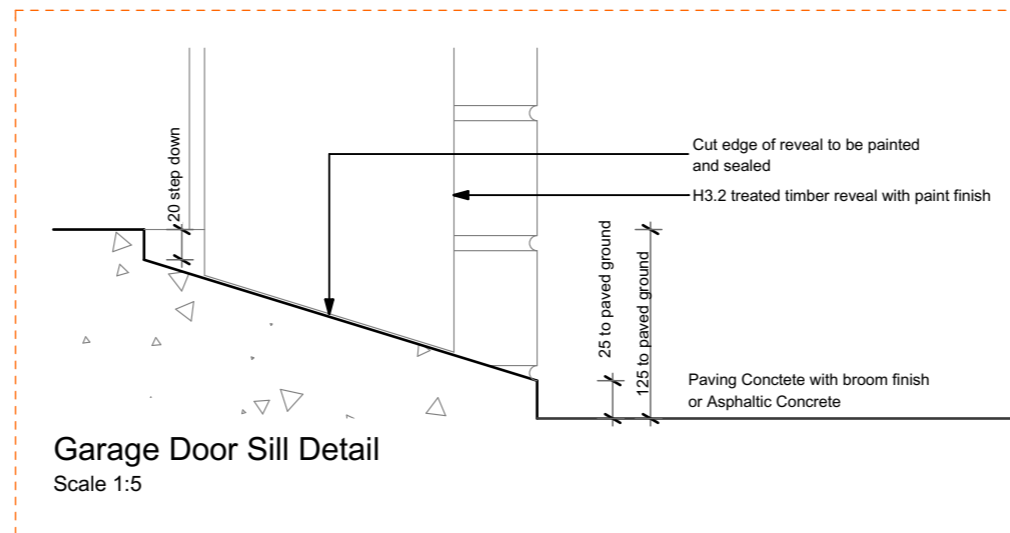
Internal Corner Detail
Scale 1:5

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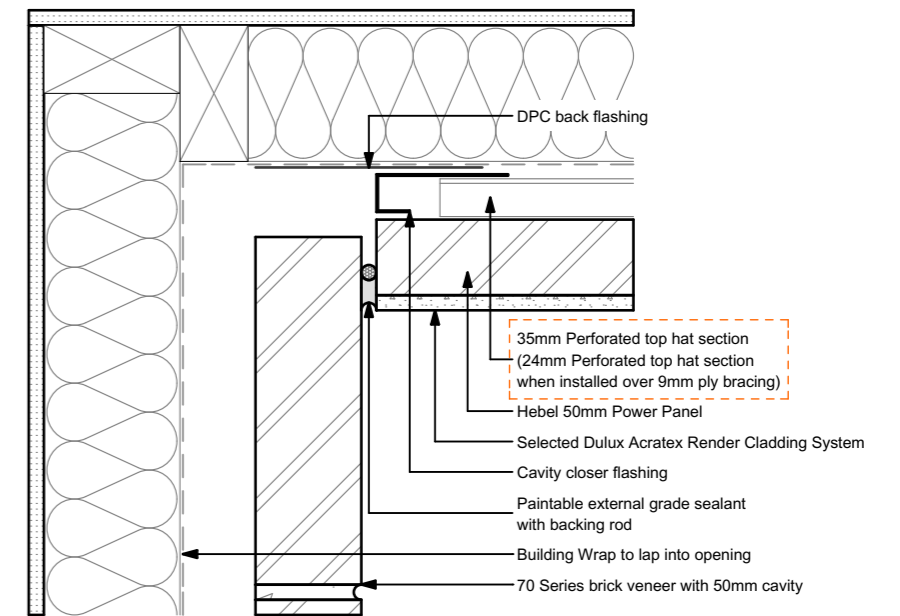
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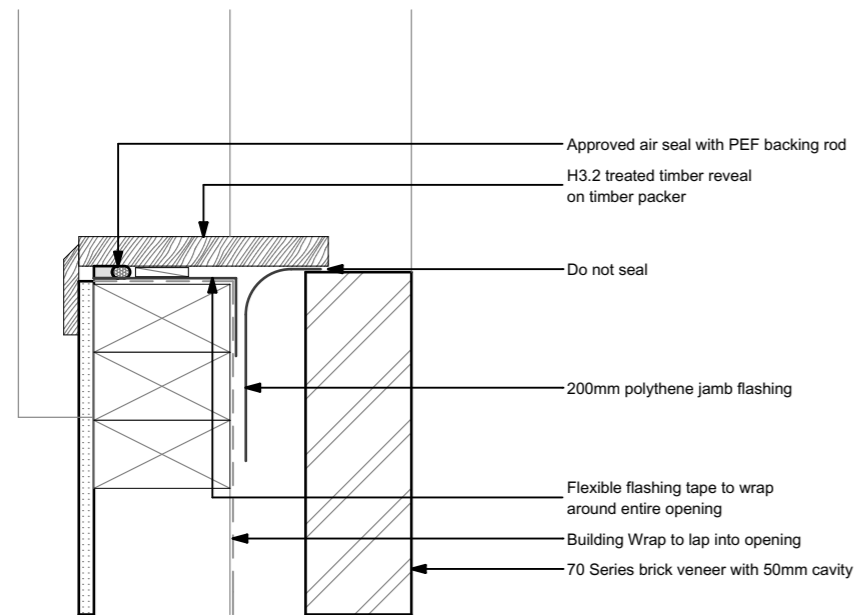
Garage Door Head To Soffit Detail
Scale 1:5



Garage Door Sill Detail
Scale 1:5



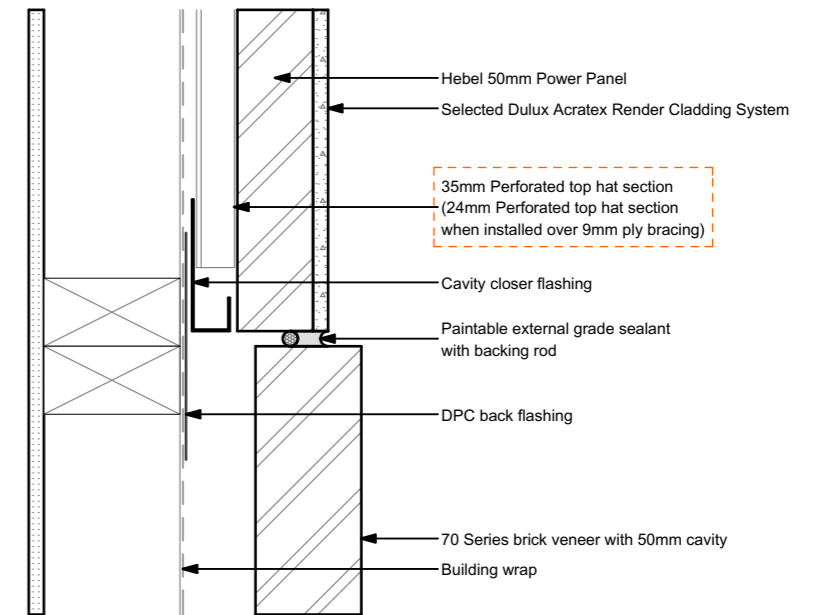
Brick To Hebel Internal Corner Junction Detail
Scale 1:5



Garage Door Jamb Detail
Scale 1:5

Revision A - 18/08/2017
Garage Door Sill Detail Added.
Hebel Perforated Top Hat Size Updated.

Revision B - 31/08/2017
Garage Door Sill Detail Updated.



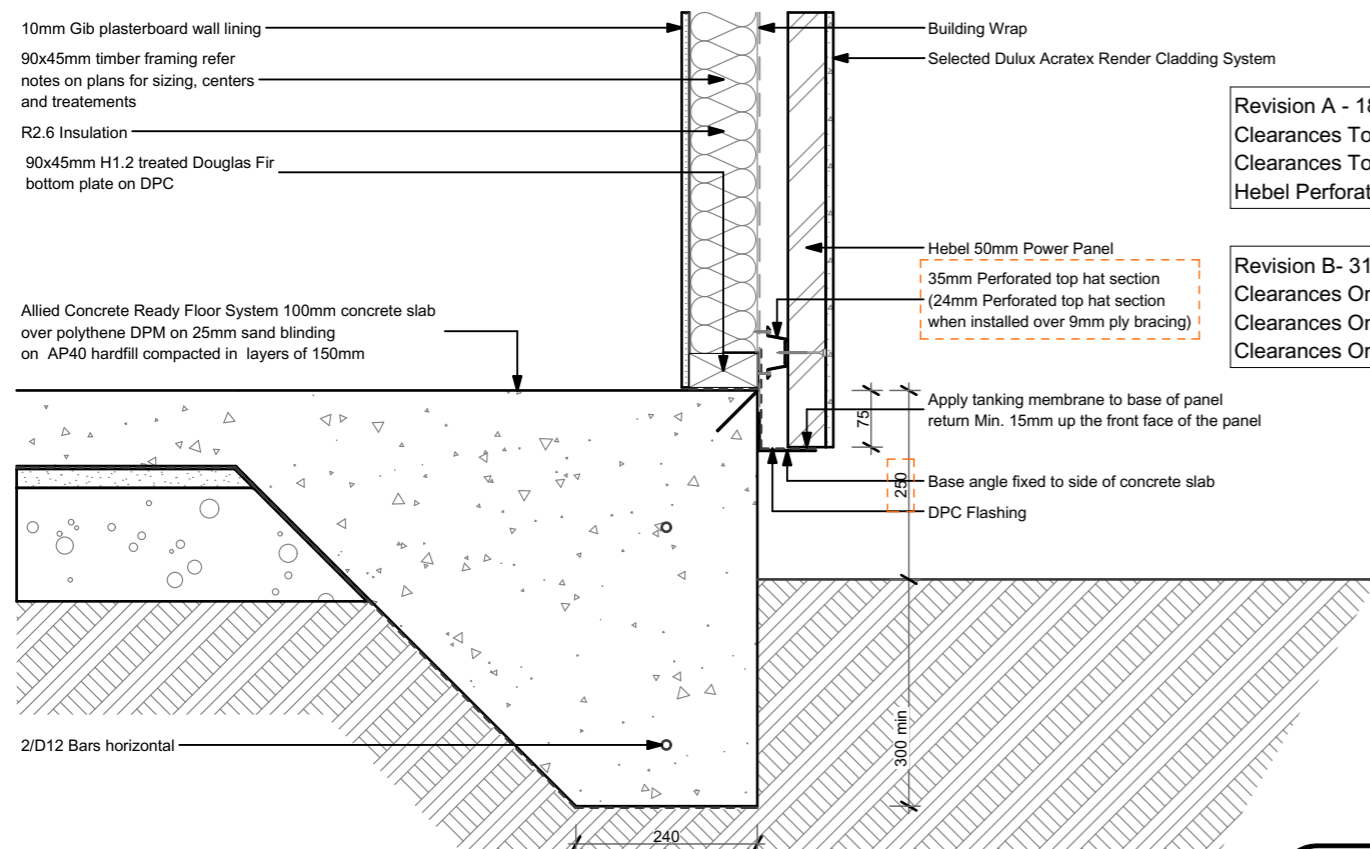
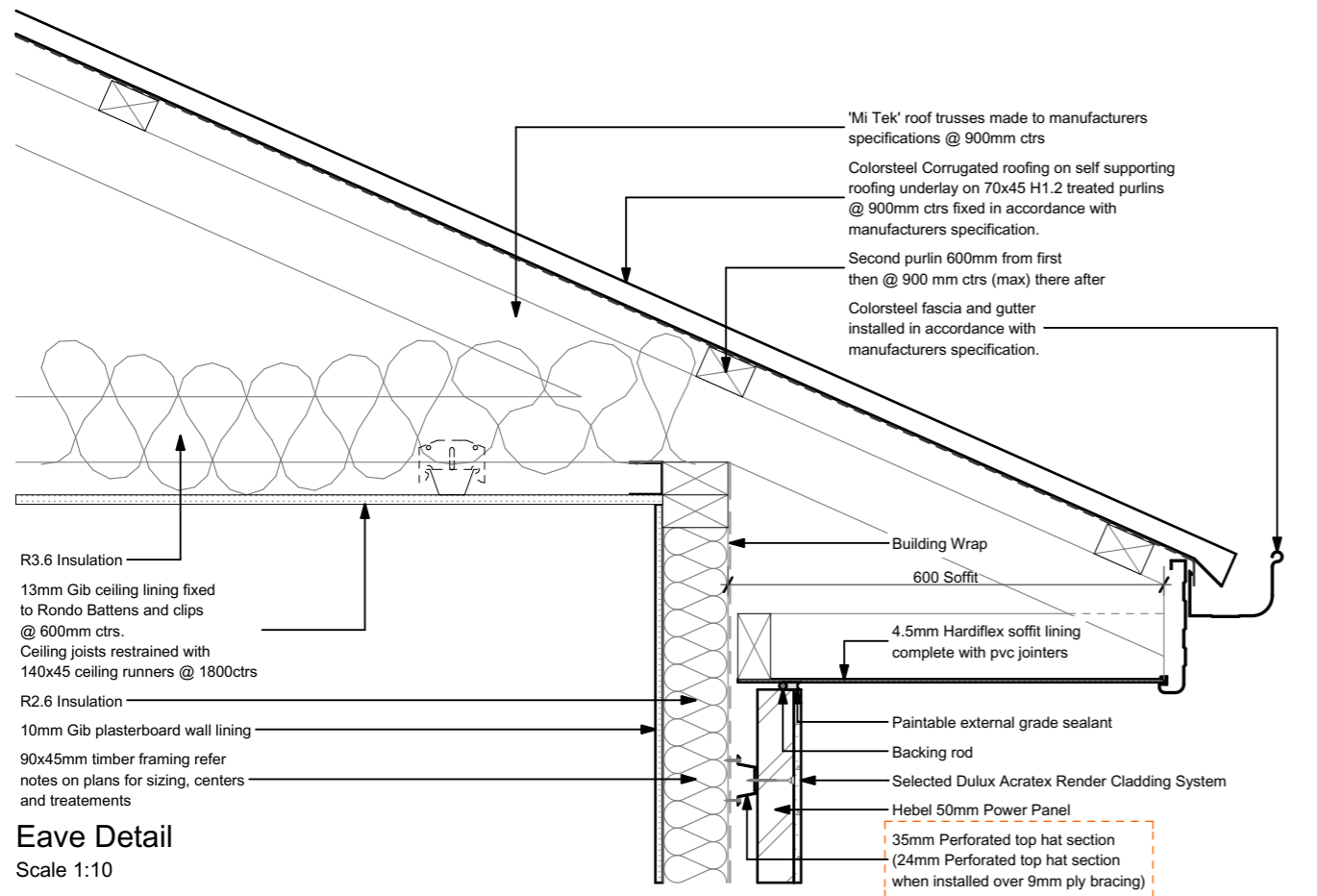
Brick To Hebel Abutting Detail
Scale 1:5

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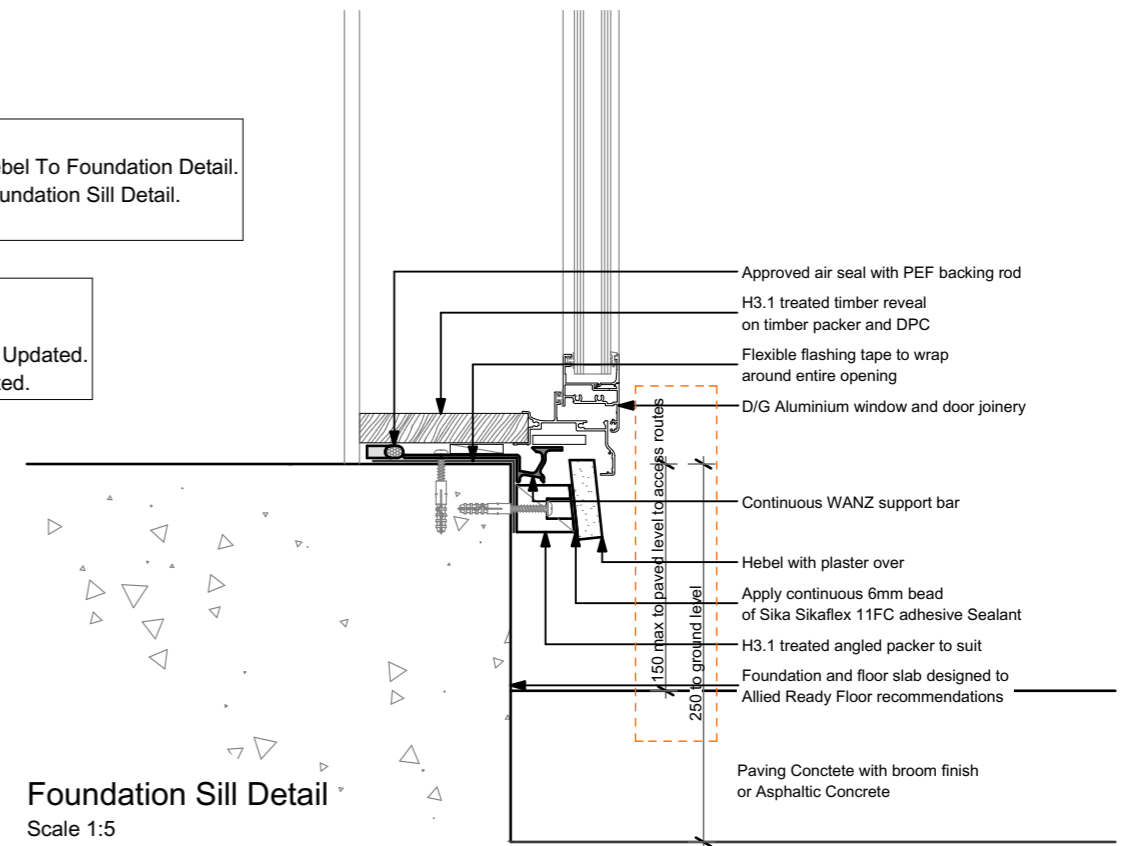
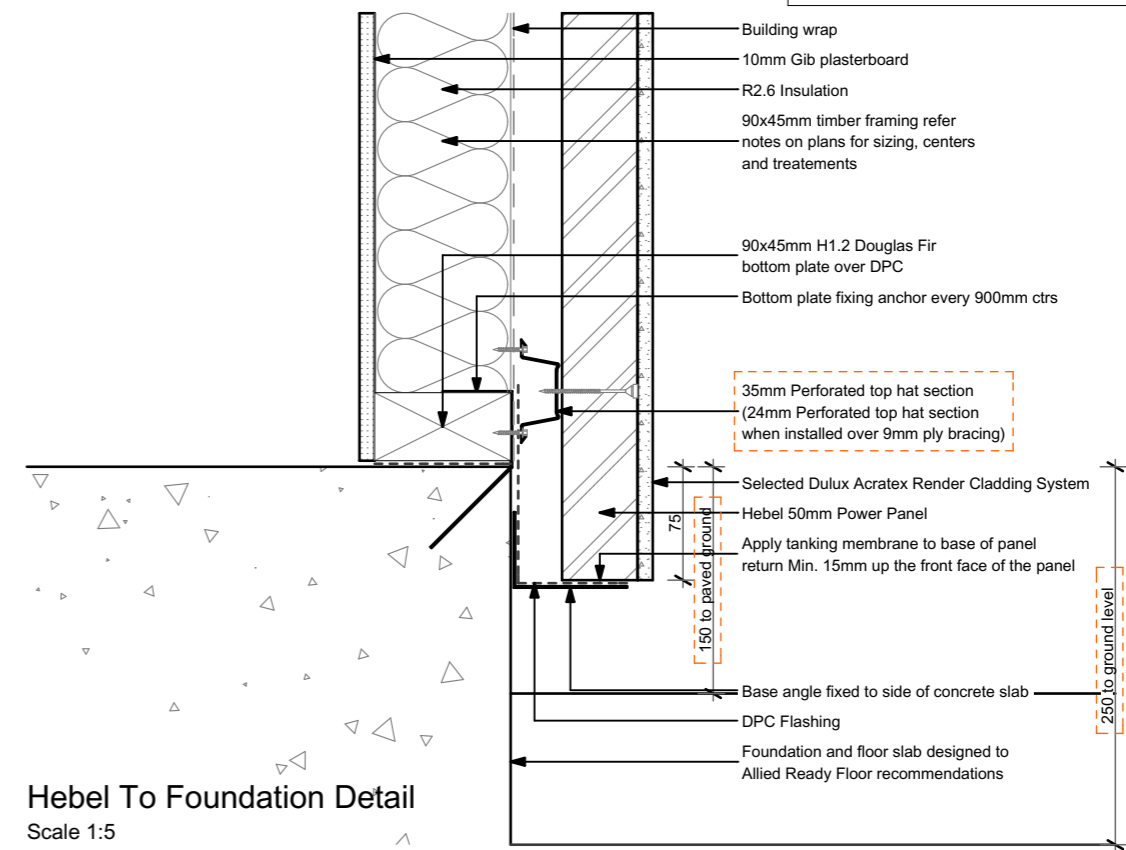
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Revision A - 18/08/2017
Clearances To Paved Ground Noted On Hebel To Foundation Detail.
Clearances To Paved Ground Noted On Foundation Sill Detail.
Hebel Perforated Top Hat Size Updated.

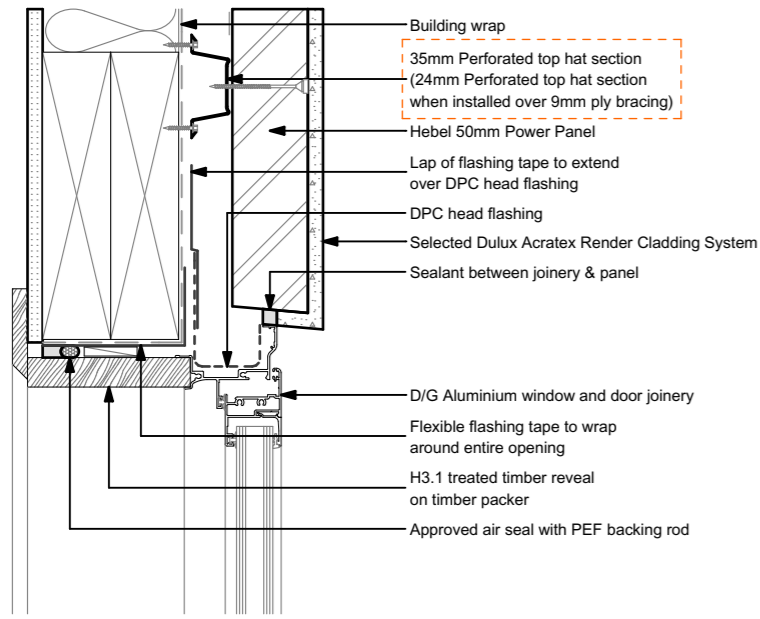
Revision B- 31/08/2017
Clearances On Foundation Detail Updated.
Clearances On Hebel To Foundation Detail Updated.
Clearances On Foundation Sill Detail Updated.



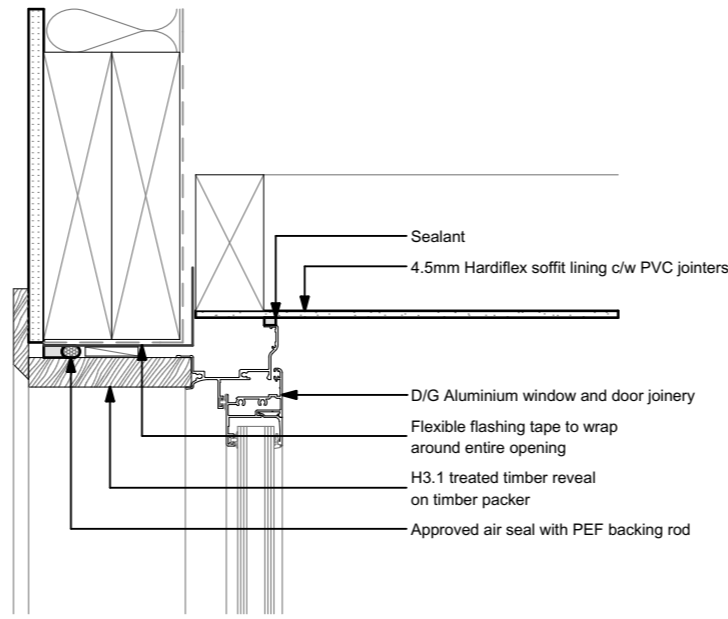
Foundation Detail
Scale 1:10

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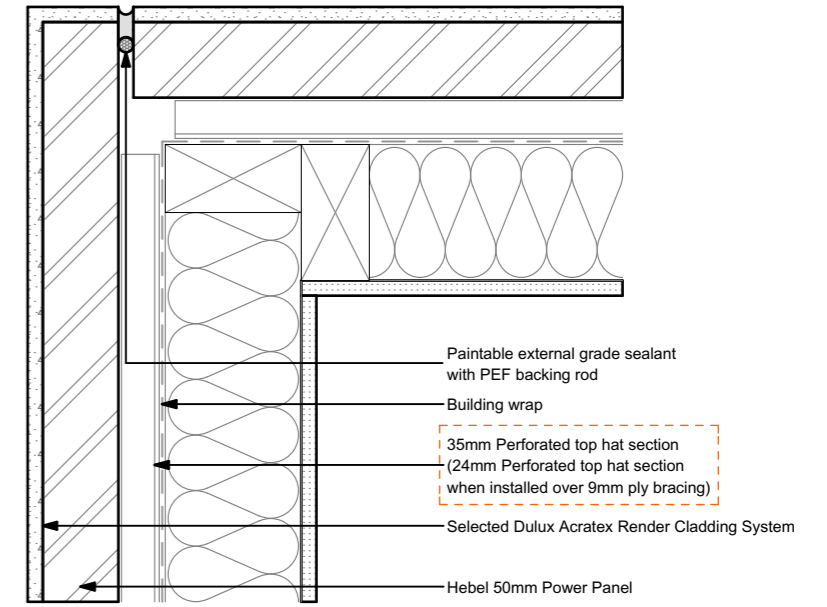
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Head To Hebel Detail
Scale 1:5

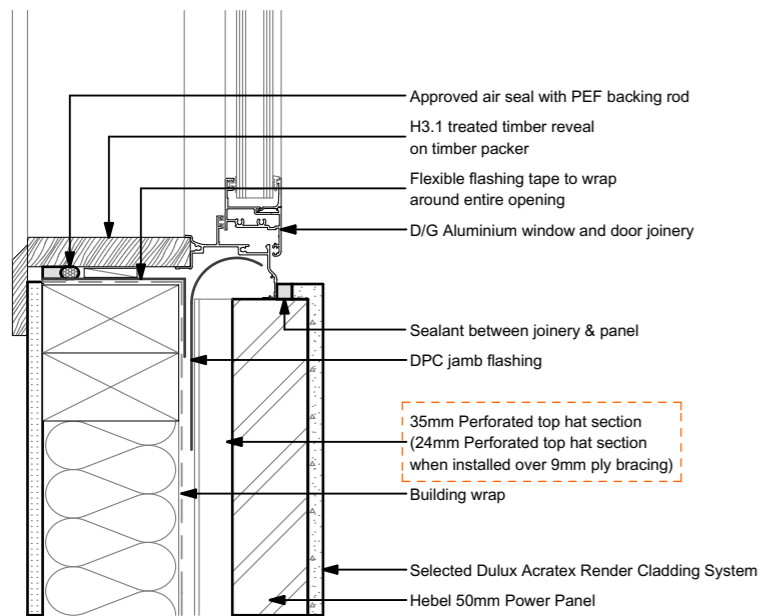


Head To Soffit Detail
Scale 1:5

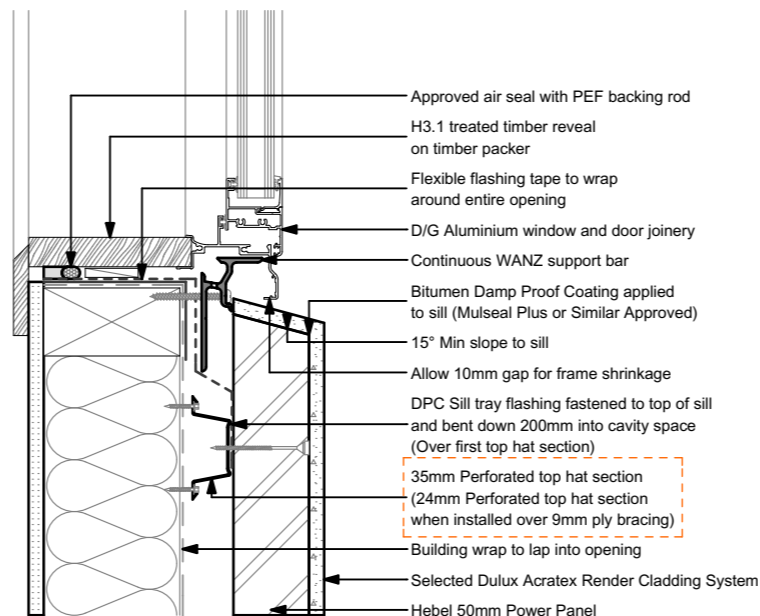


External Corner Detail
Scale 1:5

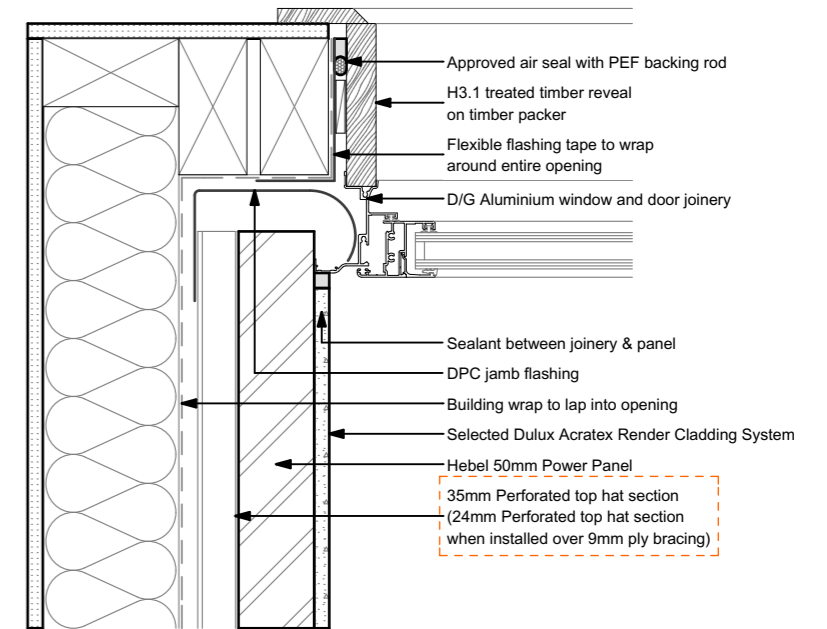
Revision A - 18/08/2017
Hebel Perforated Top Hat Size Updated.



Jamb Detail
Scale 1:5



Sill Detail
Scale 1:5



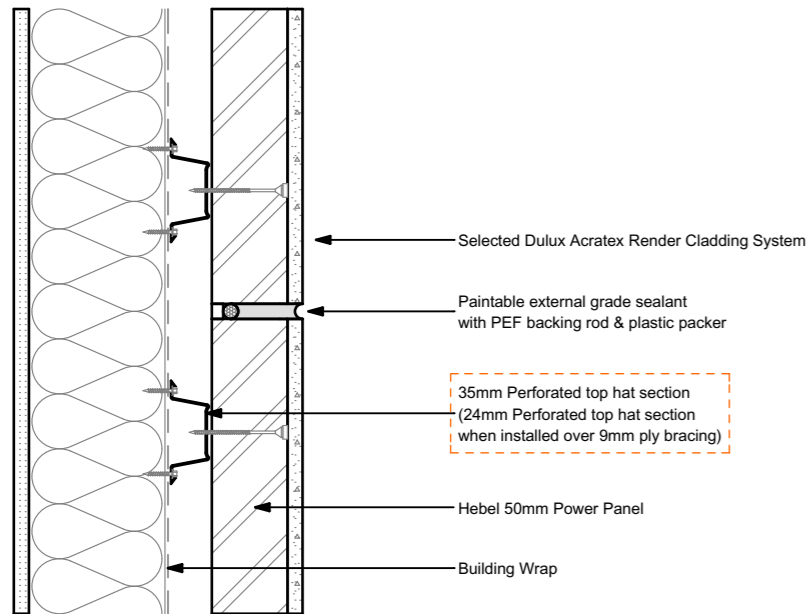
External Corner Jamb Detail
Scale 1:5

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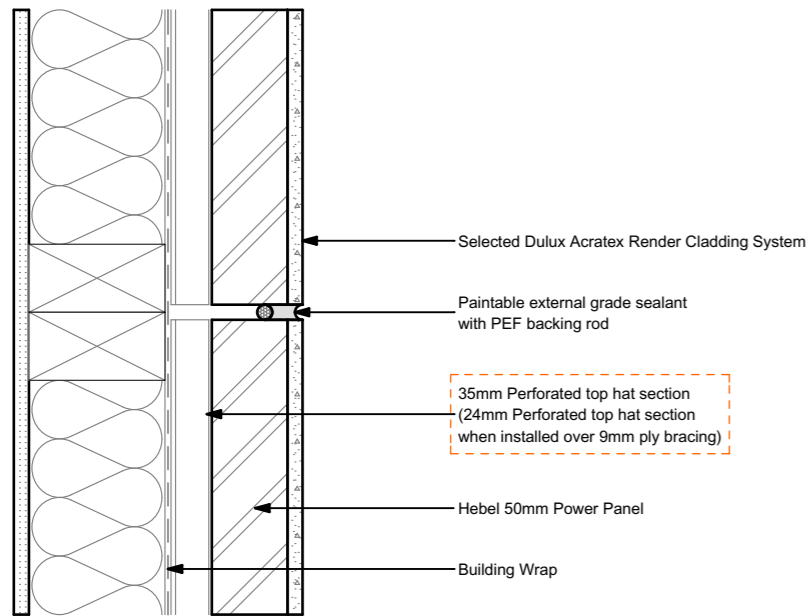
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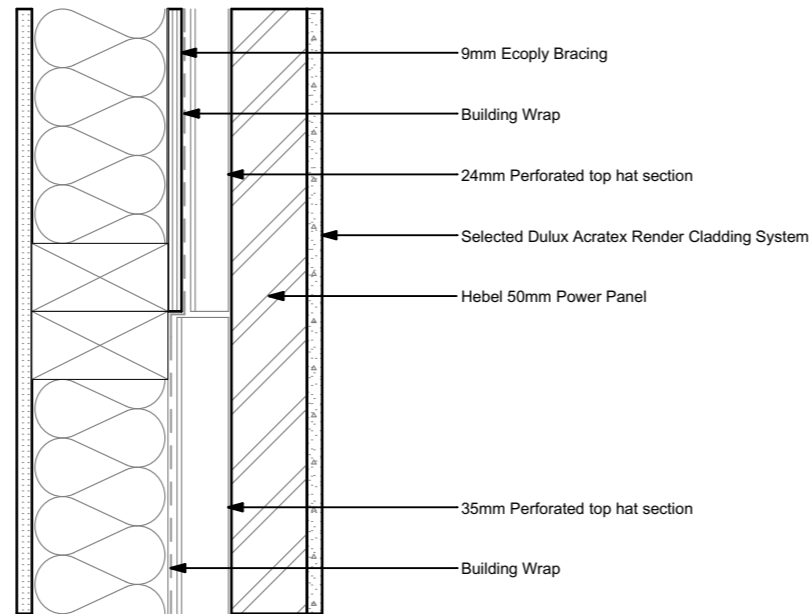
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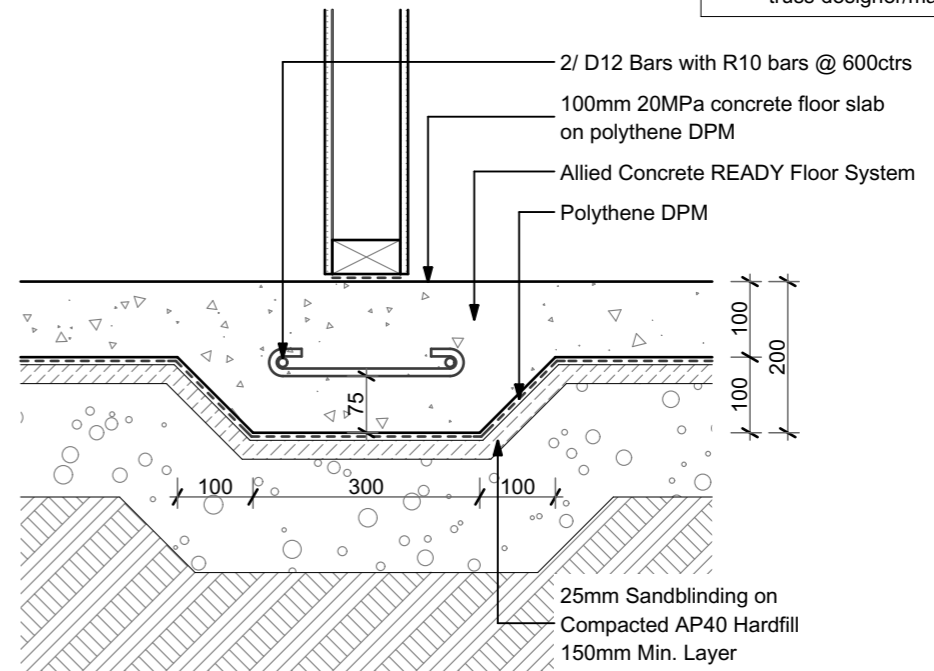
Horizontal Control Joint Detail
Scale 1:5



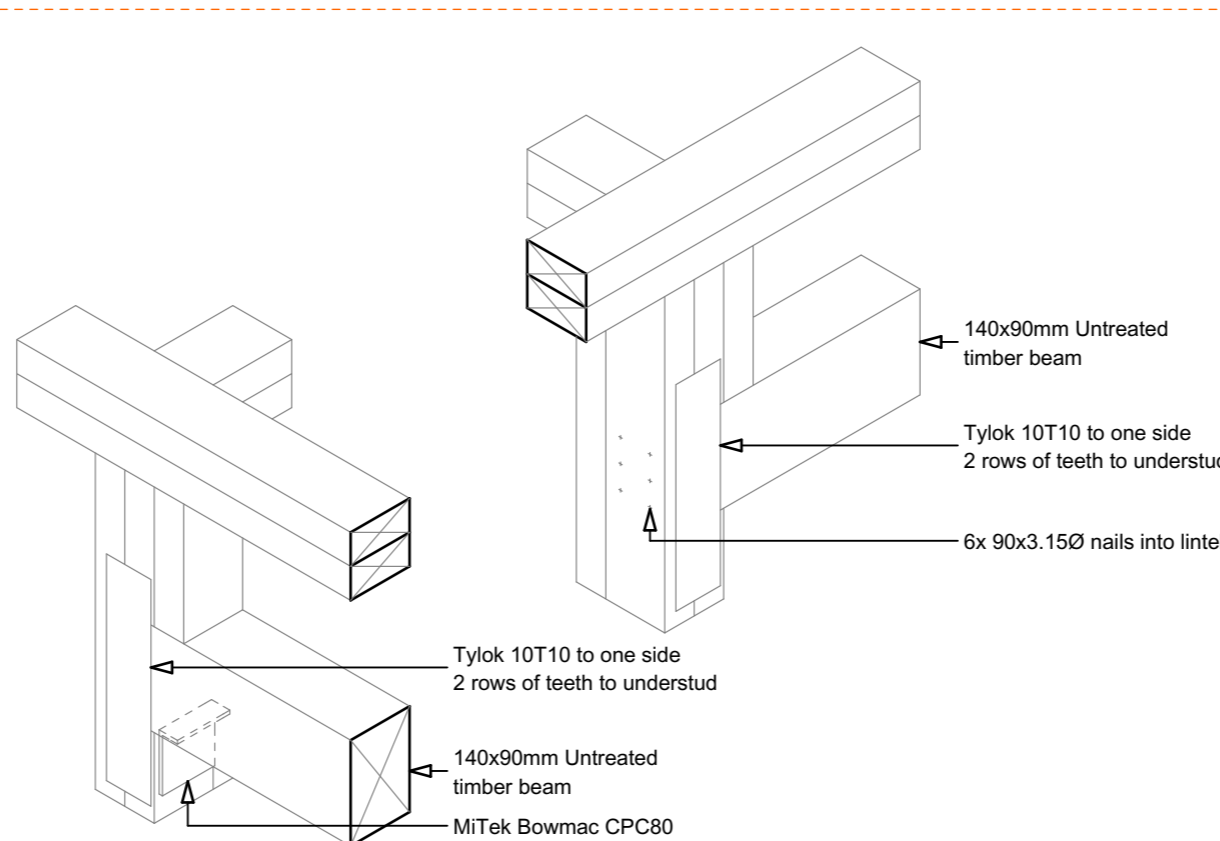
Vertical Control Joint Detail
Scale 1:5



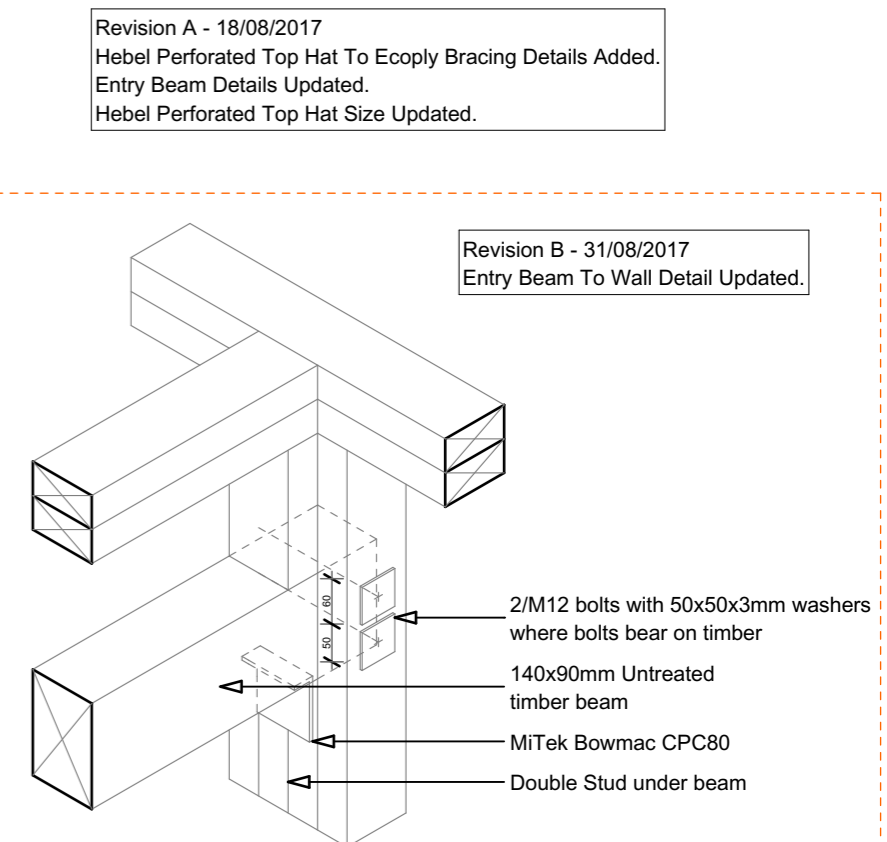
Perforated To Hat To Ecoply Bracing Detail
Scale 1:5



Strip Slab Thickening Detail
Scale 1:10



Entry Beam To Corner Wall Detail
Scale 1:10



Entry Beam To Wall Detail
Scale 1:10

Revision A - 18/08/2017
Hebel Perforated Top Hat To Ecoply Bracing Details Added.
Entry Beam Details Updated.
Hebel Perforated Top Hat Size Updated.

Revision B - 31/08/2017
Entry Beam To Wall Detail Updated.

* ALL CONSTRUCTION IS TO COMPLY WITH NEW ZEALAND BUILDING CODE AND ALL RELEVANT DOCUMENTS, AND WITH THE LOCAL TERRITORIAL AUTHORITY REGULATIONS.
* THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & LEVELS ARE CORRECT PRIOR TO COMMENCING ANY WORK.
* THESE PLANS ARE NOT TO BE USED FOR CONSTRUCTION WITHOUT LOCAL TERRITORIAL CONSENT.

Figure 68: General pipe penetration
Paragraph 9.1.9.3, Figure 126

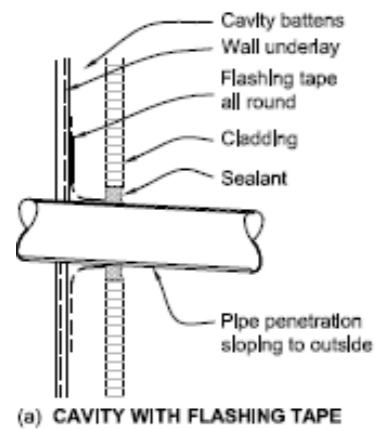
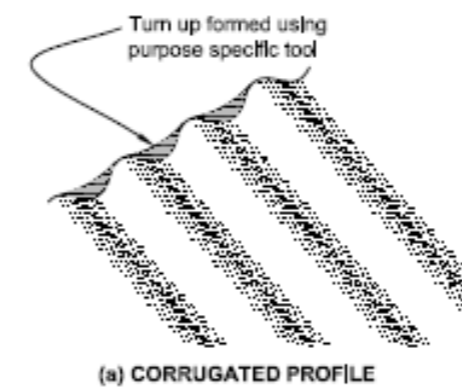


Figure 49: Profiled metal stopends
Paragraph 8.4.13, Figure 92



NOTE:
These drawings are to be read in conjunction with the specification documents, engineering details/drawings, manufacturer's specifications and truss designer/manufacturer's drawings.

RIDGE - HIP INTERSECTIONS



Drawing 5.3.2.A. Soaker

'Y' = two crests & to finish in next trough.

Figure 47: Barge flashings for profiled metal
Paragraphs 8.4.11, 8.4.12, Table 7

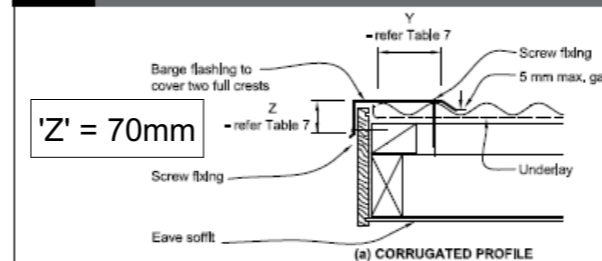


Figure 46: Ridge and hip flashings for profiled metal
Paragraphs 4.4, 4.5, 8.4.11, 8.4.12, Table 7

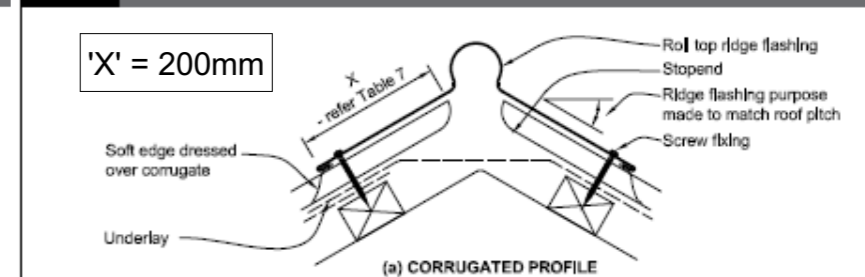
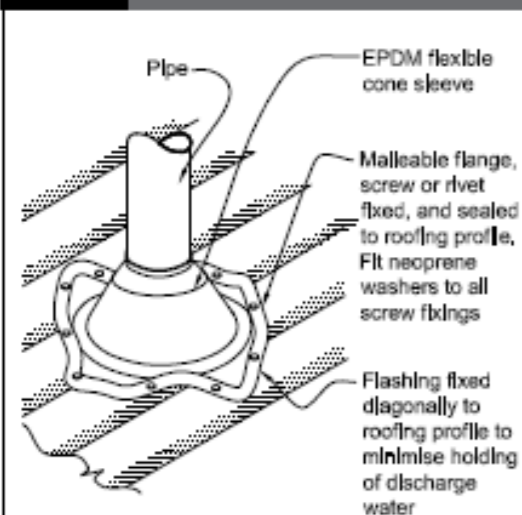


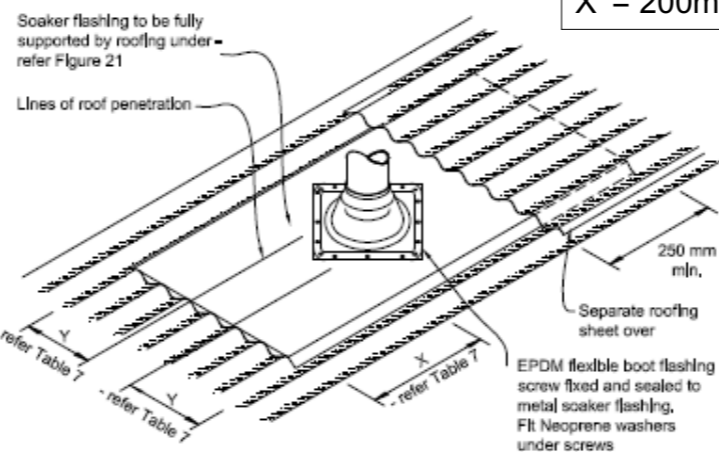
Figure 53: Flashing for small pipes
Paragraphs 8.3.10, 8.4.17, 9.6.8.5 and 9.6.9.6



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

Figure 54: Soaker flashing for pipe penetrations
Paragraph 8.4.17

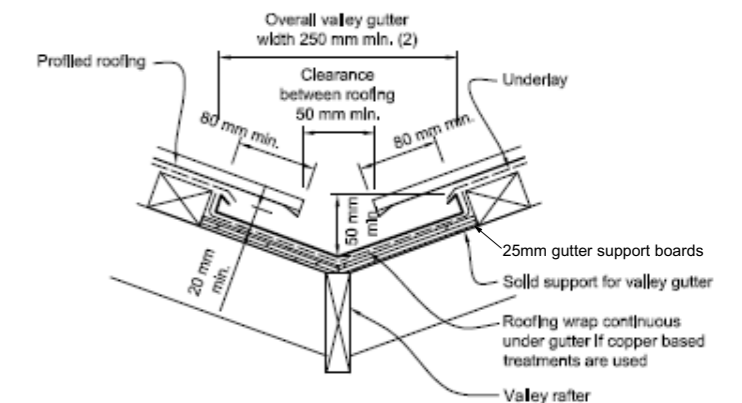
NOTE: (1) Suitable for pipes from 60 mm to 500 mm diameter.
(2) Suitable only for roof pitches of 10° or more.



'Y' = two crests & to finish in next trough.

Figure 51: Valley gutters for profiled metal
Paragraphs 4.3, 4.5, 8.1.6.2 and 8.4.16

NOTE: (1) Refer to Table 8 for maximum roof catchment areas for valley gutters.
(2) Minimum width of valley gutter may reduce to 160 mm, providing roof catchment area is in accordance with Table 8. In this case, cover of roof cladding over gutter shall be reduced to 60 mm to provide a clearance gap of 40 mm.



Revision A - 18/08/2017
Valley Gutter Support Board Size Noted.

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NOTE:

These drawings are to be read in conjunction with the specification documents, engineering details/drawings, manufacturer's specifications and truss designer/manufacturer's drawings.

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Refer Truss Design For Fixing Details

Revision A - 18/08/2017
Fixing Details Removed As Covered By Truss Design.

* ALL CONSTRUCTION IS TO COMPLY WITH NEW ZEALAND BUILDING CODE AND ALL RELEVANT DOCUMENTS, AND WITH THE LOCAL TERRITORIAL AUTHORITY REGULATIONS.
* THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & LEVELS ARE CORRECT PRIOR TO COMMENCING ANY WORK.
* THESE PLANS ARE NOT TO BE USED FOR CONSTRUCTION WITHOUT LOCAL TERRITORIAL CONSENT.

NOTE:
These drawings are to be read in conjunction with the specification documents, engineering details/drawings, manufacturer's specifications and truss designer/manufacturer's drawings.

LUMBERLOK®

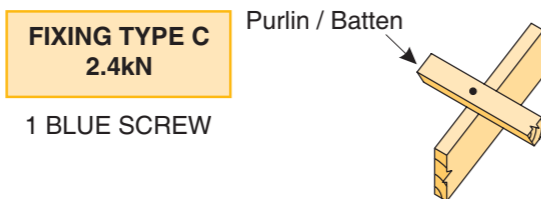
07/2011

PURLIN & BATTEN FIXING CHART ALTERNATIVE SOLUTION TO NZS 3604:2011 TABLES 10.10 & 10.12

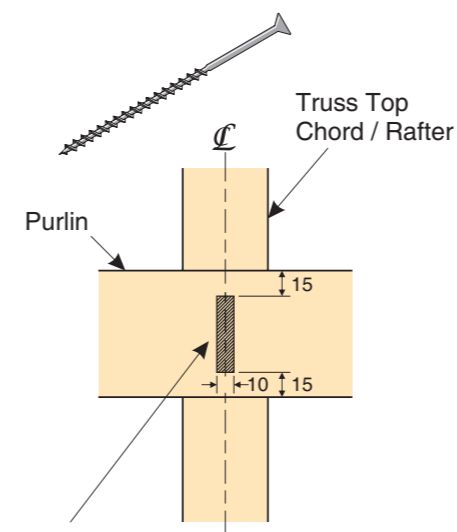
NOTE:

- ★ All purlin and batten sizes are as per NZS 3604:2011.
- ★ All fixings assume that the purlin and battens are installed on their flat over the top of the rafter or truss.
- ★ The minimum fixing requirements apply to all purlin locations within the roof area.
- ★ The LUMBERLOK BLUE SCREW where specified requires a minimum of 30mm penetration into rafter or truss i.e. it is suitable for rough sawn timber up to 50mm thick at 18% moisture content.

| ROOF WEIGHT | MAX. PURLIN SPAN (mm) | MAX. PURLIN CRS. (mm) | WIND ZONE | | | | |
|--------------------|-----------------------|-----------------------|-----------|---|---|----|----|
| | | | L | M | H | VH | EH |
| LIGHT ROOF Purlins | 900 | 900 | | | C | | |

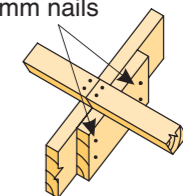


FIXING TOLERANCES LUMBERLOK BLUE SCREW



NOTE:
Locate fixings within the shaded area. Care to be taken to avoid over tightening of screws.

FIXING TYPE C, D or E OVER PURLIN SPLICE
90 x 35mm block fixed to chord or rafter with 4 x 75mm nails



- TYPE C
1 SCREW to each purlin
- TYPE D & E
1 NAIL plus 1 SCREW to each purlin

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* THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & LEVELS ARE CORRECT PRIOR TO COMMENCING ANY WORK.
* THESE PLANS ARE NOT TO BE USED FOR CONSTRUCTION WITHOUT LOCAL TERRITORIAL CONSENT.

| | | | | |
|-----------------------------|---|-------------------------|------------------------|---------------------|
| ORANGE ARCHITECTURAL | Project Name: McQuilkan-May Residence | Fixing Details | | Sheet: 26 |
| | Project Address: Lot 229, Stage 5, Flemington, Lincoln | Job No: 0717-060 | Date: 31/08/2017 | of: 31 |
| | | Consultant: N. James | Drawn: C. Barnfield | Revision: B |




NOTE:
These drawings are to be read in conjunction with the specification documents, engineering details/drawings, manufacturer's specifications and truss designer/manufacturer's drawings.

SDC - Approved Building Consent Document - BC171489 - Pg 28 of 37 - 1/09/2017 - parkea

Refer Truss Design For Durability Details

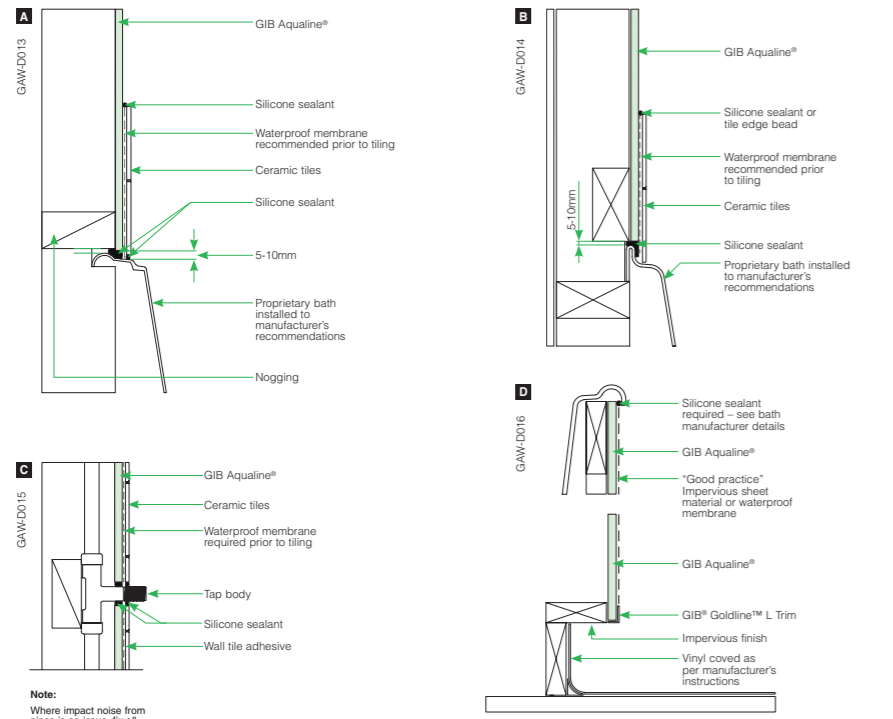
Revision B - 31/08/2017
Durability Details Removed As Covered By Truss Design.

* ALL CONSTRUCTION IS TO COMPLY WITH NEW ZEALAND BUILDING CODE AND ALL RELEVANT DOCUMENTS, AND WITH THE LOCAL TERRITORIAL AUTHORITY REGULATIONS.
* THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & LEVELS ARE CORRECT PRIOR TO COMMENCING ANY WORK.
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| | | | | | | |
|---|------------------|---------------------------------------|---------|--------------|-----------|-------|
|  ORANGE ARCHITECTURAL | Project Name: | McQuilkan-May Residence | | Sheet: | 27 | |
| | Project Address: | Lot 229, Stage 5, Flemington, Lincoln | Job No: | 0717-060 | | Date: |
| | Consultant: | N. James | Drawn: | C. Barnfield | Revision: | B |

GIB AQUALINE® WET AREA SYSTEMS – TYPICAL DETAILS

Bath – Tiled Upstand MARCH 2007



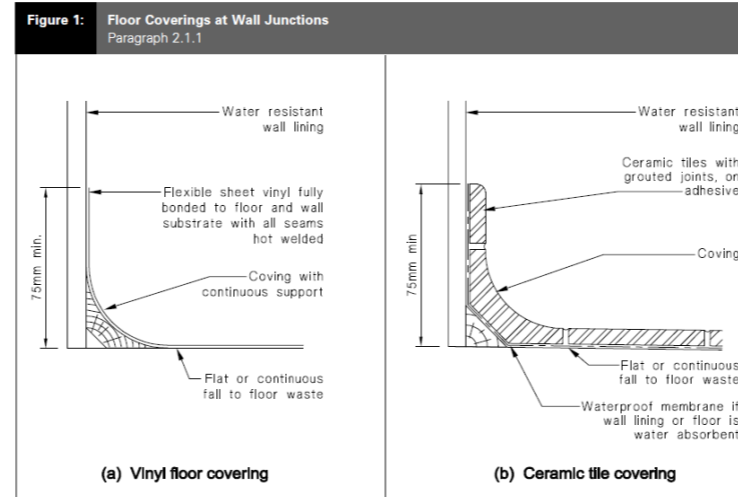
FOR FURTHER INFORMATION OR TO DOWNLOAD DETAILS VISIT WWW.GIB.CO.NZ

GIB AQUALINE® WET AREA SYSTEMS

17

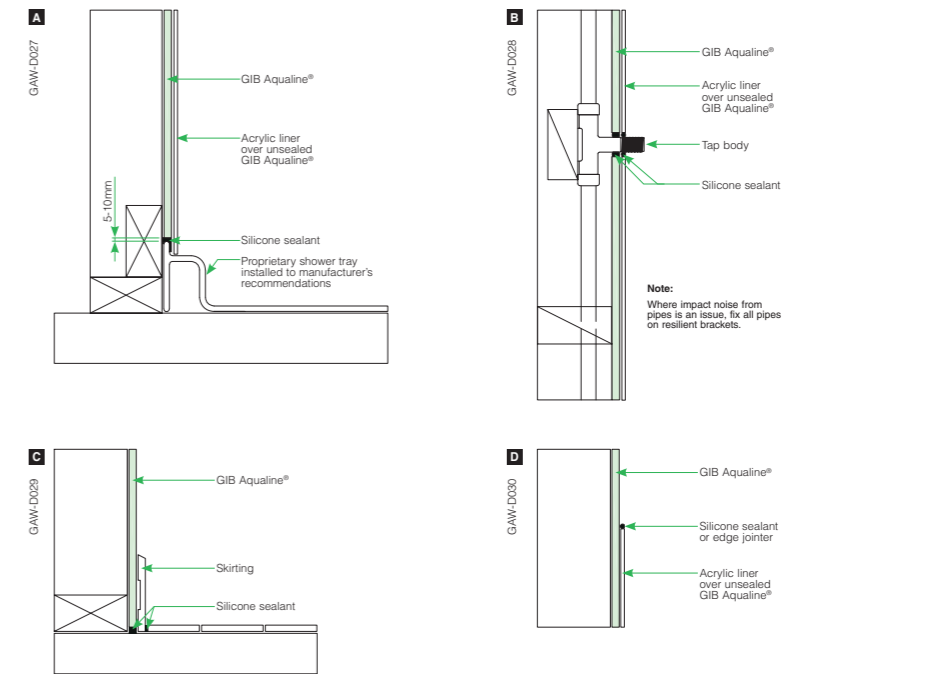
Acceptable Solution E3/AS1

INTERNAL MOISTURE



GIB AQUALINE® WET AREA SYSTEMS – TYPICAL DETAILS

Shower – Acrylic Liner and Base MARCH 2007



FOR FURTHER INFORMATION OR TO DOWNLOAD DETAILS VISIT WWW.GIB.CO.NZ

GIB AQUALINE® WET AREA SYSTEMS

21

NOTE:
These drawings are to be read in conjunction with the specification documents, engineering details/drawings, manufacturer's specifications and truss designer/manufacturer's drawings.

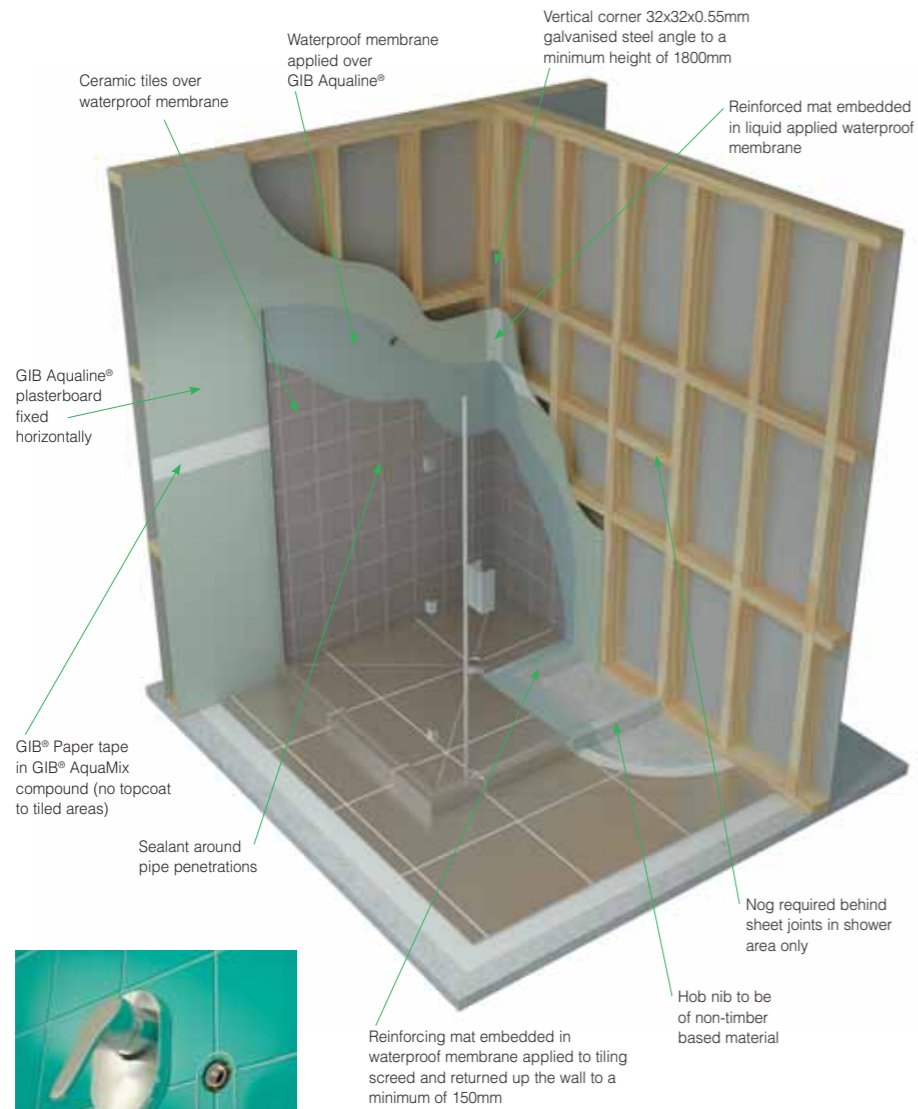
SDC - Approved Building Consent Document - BC171489 - Pg 29 of 37 - 1/09/2017 - parkea

* ALL CONSTRUCTION IS TO COMPLY WITH NEW ZEALAND BUILDING CODE AND ALL RELEVANT DOCUMENTS, AND WITH THE LOCAL TERRITORIAL AUTHORITY REGULATIONS.
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* THESE PLANS ARE NOT TO BE USED FOR CONSTRUCTION WITHOUT LOCAL TERRITORIAL CONSENT.

NOTE:
These drawings are to be read in conjunction with the specification documents, engineering details/drawings, manufacturer's specifications and truss designer/manufacturer's drawings.

GIB AQUALINE® WET AREA SYSTEMS – TYPICAL DETAILS

GIB Shower – Tiled Walls and Base MARCH 2007



Run a bead of silicone sealant around the mixer unit on the tiles extending below the bottom of the pipe aperture.

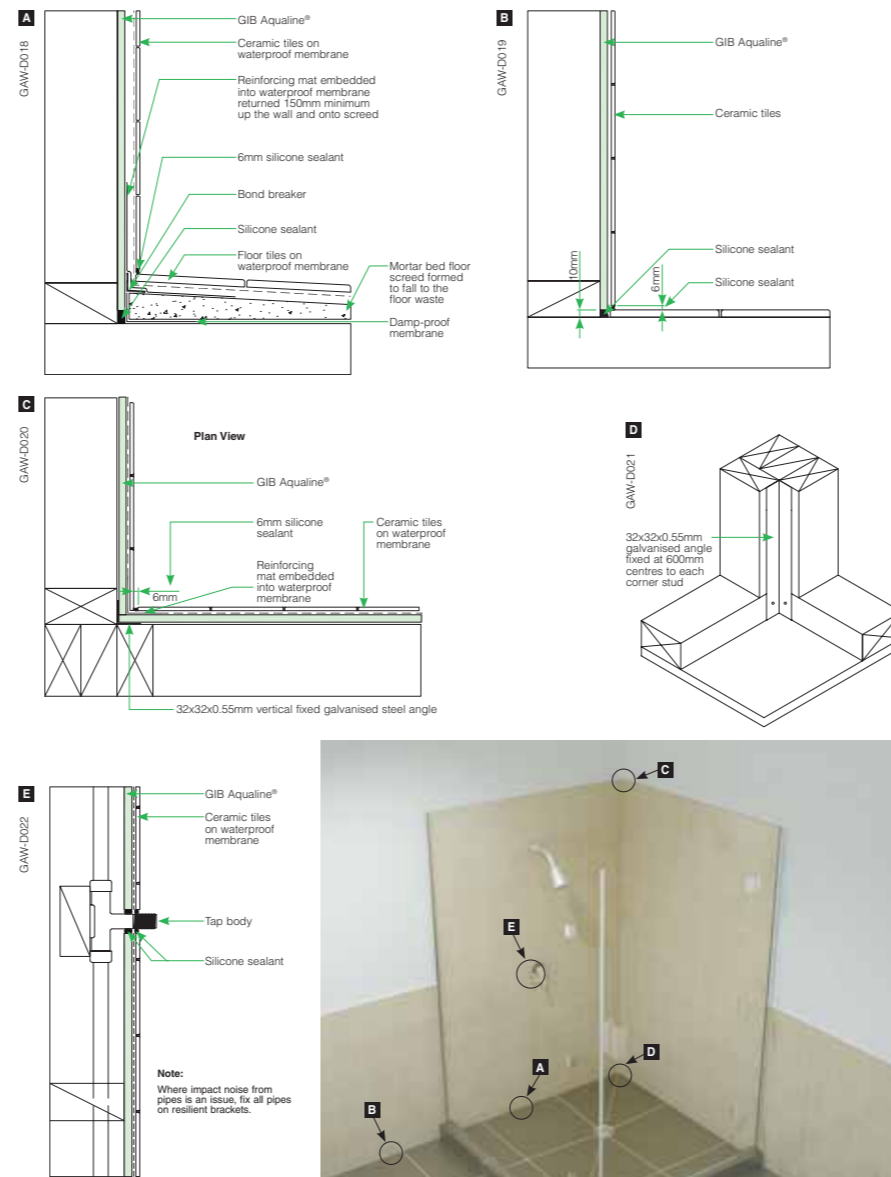
For typical details, see the following pages.

GIB AQUALINE® WET AREA SYSTEMS

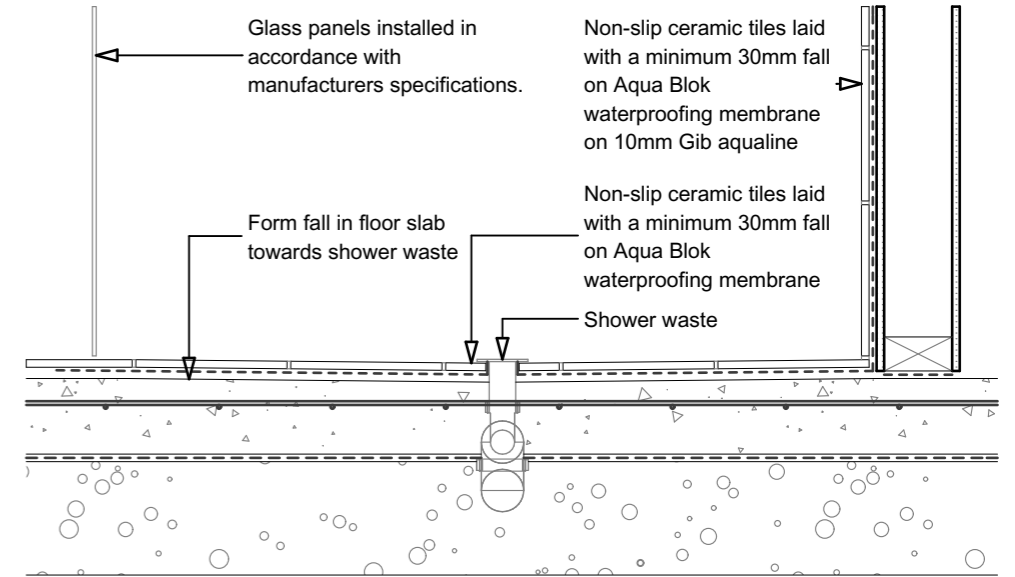
18 FOR FURTHER INFORMATION VISIT WWW.GIB.CO.NZ

GIB AQUALINE® WET AREA SYSTEMS – TYPICAL DETAILS

GIB Shower – Tiled Walls and Base MARCH 2007



Note:
Where impact noise from pipes is an issue, fix all pipes on resilient brackets.



Tiled Shower Detail
Scale 1:10

GIB AQUALINE® WET AREA SYSTEMS

FOR FURTHER INFORMATION OR TO DOWNLOAD DETAILS VISIT WWW.GIB.CO.NZ

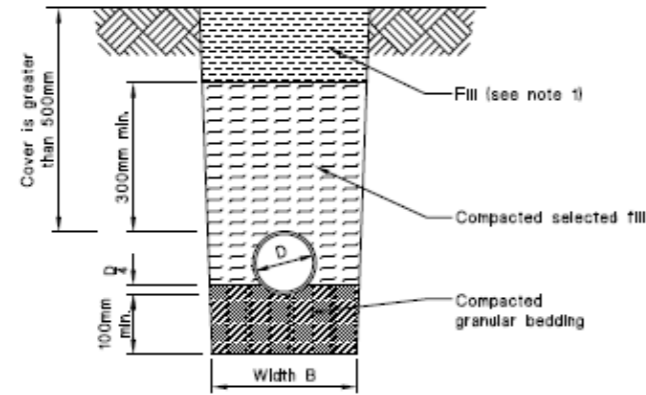
19

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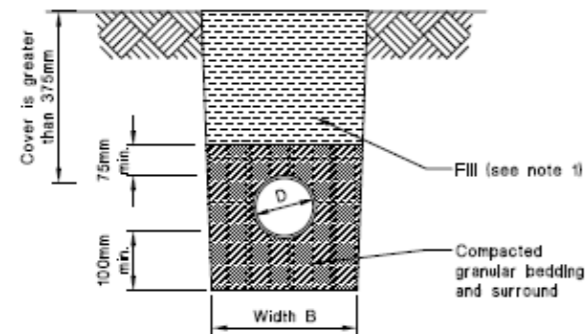
* ALL CONSTRUCTION IS TO COMPLY WITH NEW ZEALAND BUILDING CODE AND ALL RELEVANT DOCUMENTS, AND WITH THE LOCAL TERRITORIAL AUTHORITY REGULATIONS.
* THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS & LEVELS ARE CORRECT PRIOR TO COMMENCING ANY WORK.
* THESE PLANS ARE NOT TO BE USED FOR CONSTRUCTION WITHOUT LOCAL TERRITORIAL CONSENT.

| | | | | |
|------------------------------------|---|-------------------------|------------------------|---------------------|
| <p>ORANGE ARCHITECTURAL</p> | Project Name: McQuilkan-May Residence | Wet Area Details | | Sheet: 29 |
| | Project Address: Lot 229, Stage 5, Flemington, Lincoln | Job No: 0717-060 | Date: 31/08/2017 | Of: 31 |
| | | Consultant: N. James | Drawn: C. Barnfield | Revision: B |

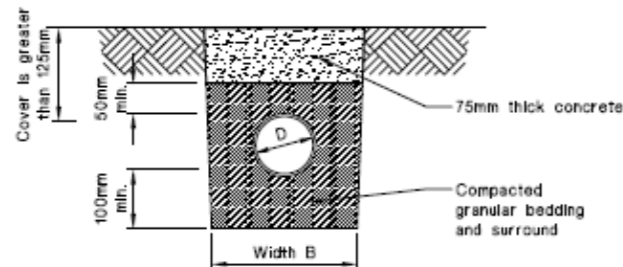
Figure 13: Bedding and Backfilling
Paragraphs 3.9.2, 3.9.4 and 3.9.5



(a) Cover greater than 500 mm
Bedding type 'B' of NZS 4452



(b) Cover greater than 375 mm
Bedding type 'D' of NZS 4452

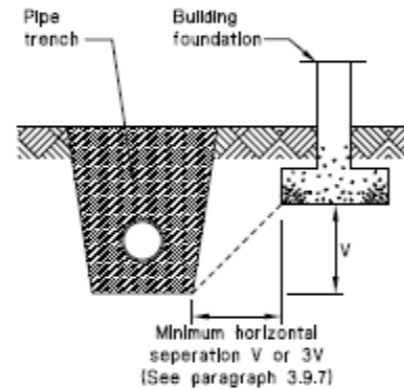


(c) Cover greater than 125 mm

NOTE:
1. Fill shall be:
- Ordinary fill where drains are located below gardens and open country.
- Compacted selected fill where the drains are located below residential driveways and similar areas subjected to light traffic.

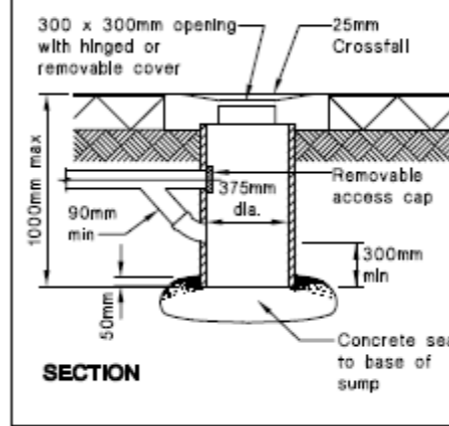
NOTE:
These drawings are to be read in conjunction with the specification documents, engineering details/drawings, manufacturer's specifications and truss designer/manufacturer's drawings.

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



FOUL WATER DRAINAGE

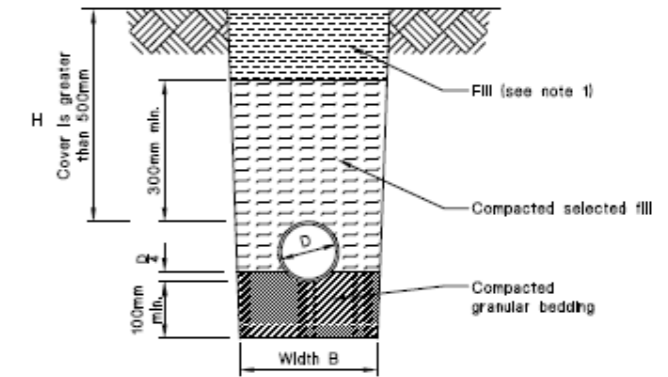
Figure 8: Type-one Surface Water Sump
Paragraph 3.6.2



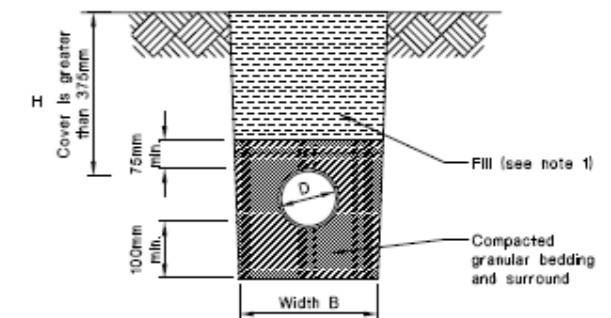
Acceptable Solution G13/AS2

Acceptable Solution G13/AS2

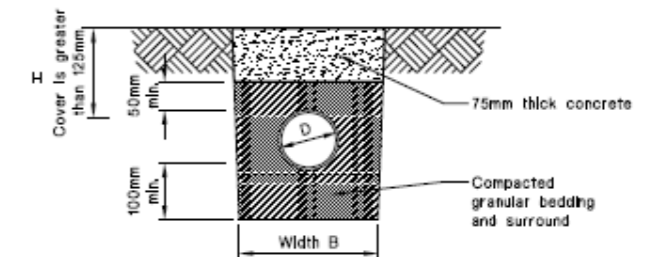
Figure 7: Bedding and backfilling
Paragraphs 5.2.1, 5.3.1 and 5.4.1



(a) Bedding type 'B' of NZS 7643
Cover greater than 500mm



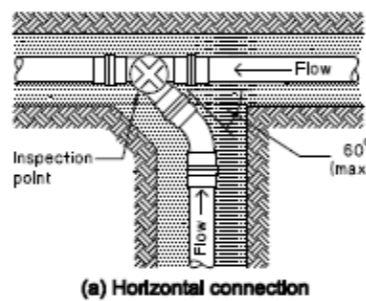
(b) Bedding type 'D' of NZS 7643
Cover greater than 375mm



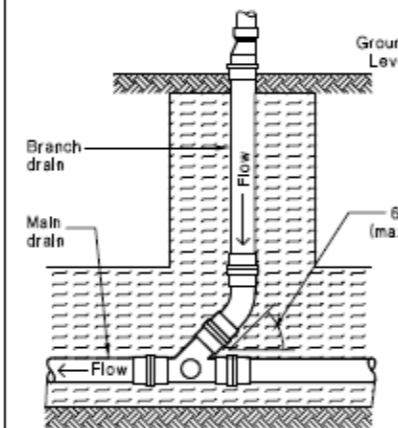
(c) Cover between 125mm and 375mm

NOTE:
1. Fill shall be:
- Ordinary fill where drains are located below gardens and open country.
- Compacted selected fill where the drains are located below residential driveways and similar areas subject to light traffic.

Figure 1: Connection of drains
Paragraph 3.2.1

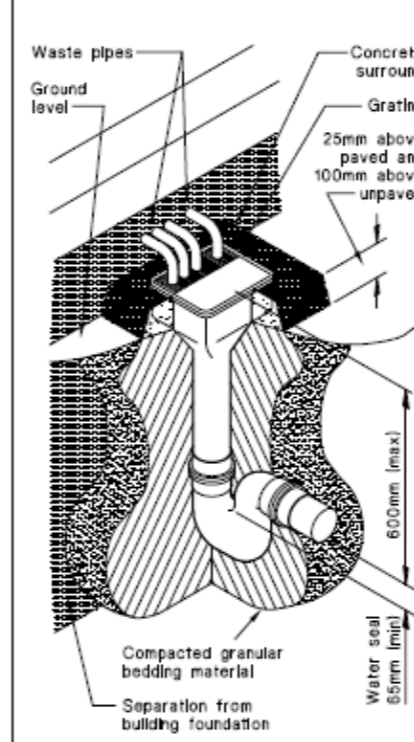


(a) Horizontal connection



(b) Vertical connection

Figure 2: Details of gully traps
Paragraph 3.3.1



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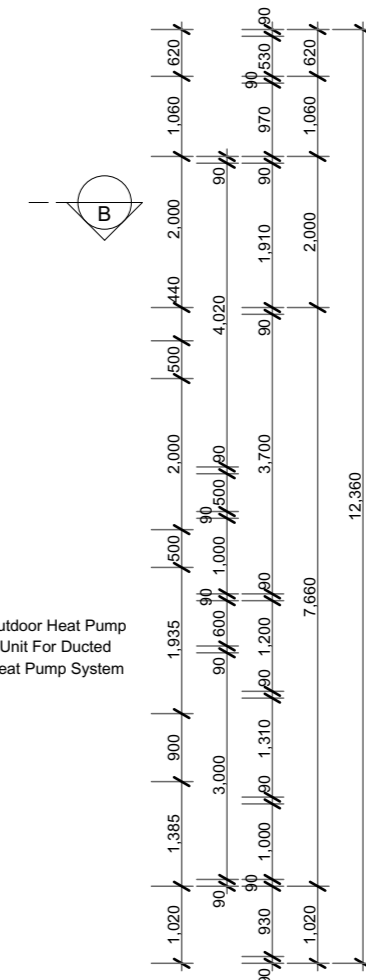
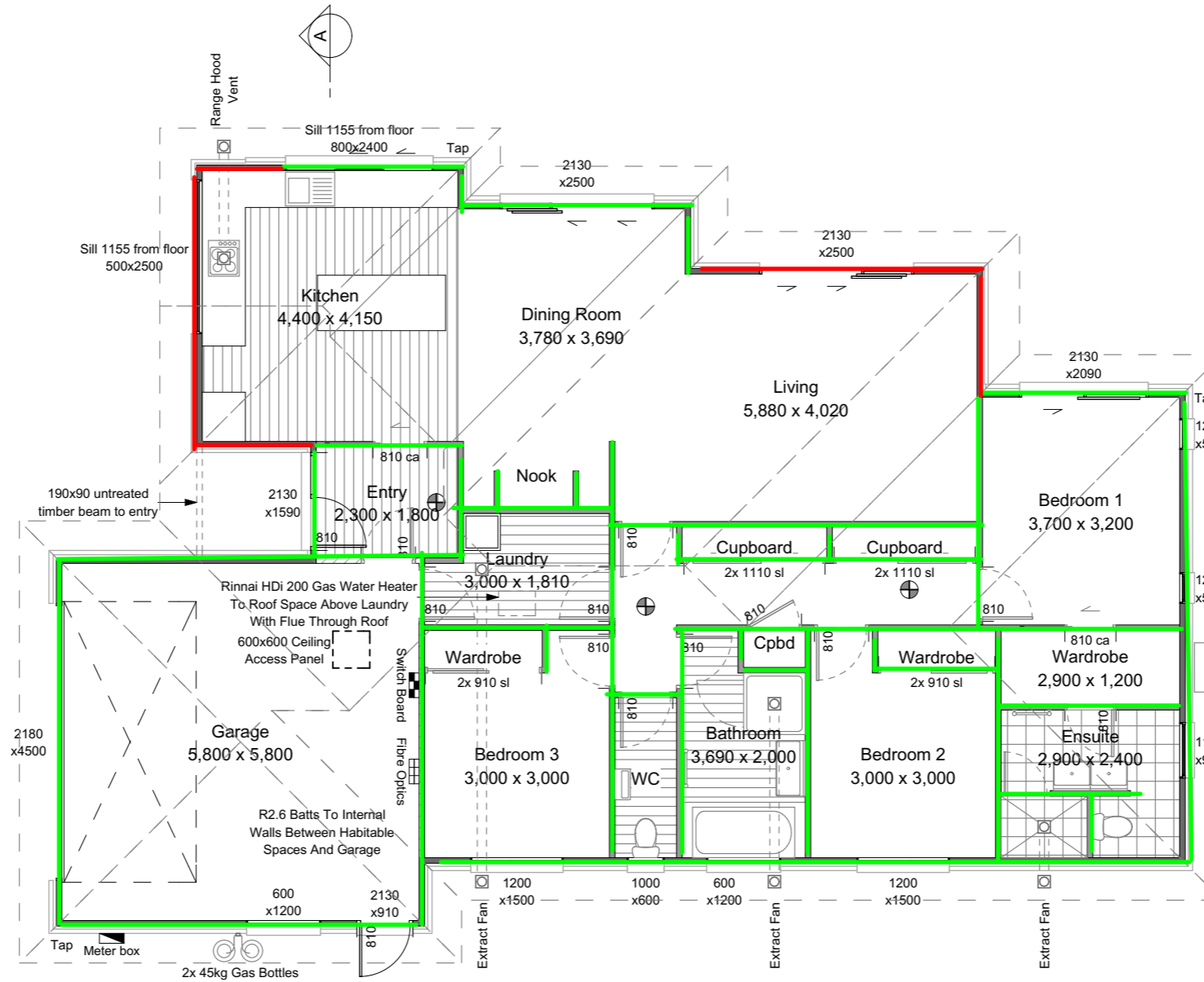
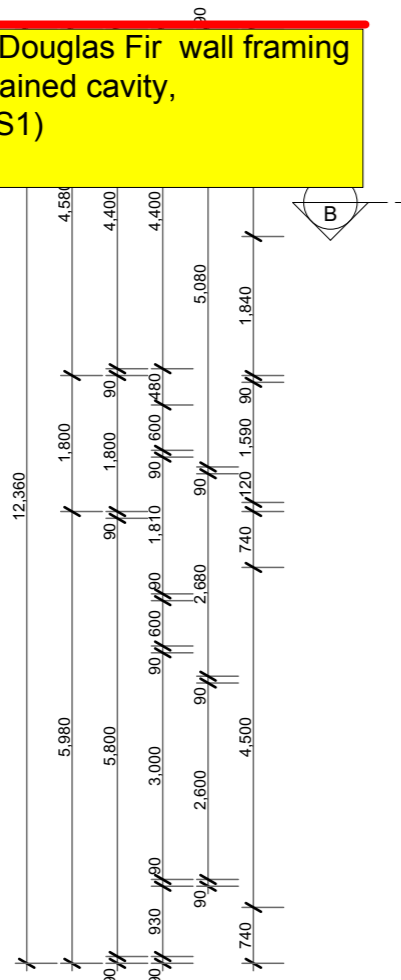
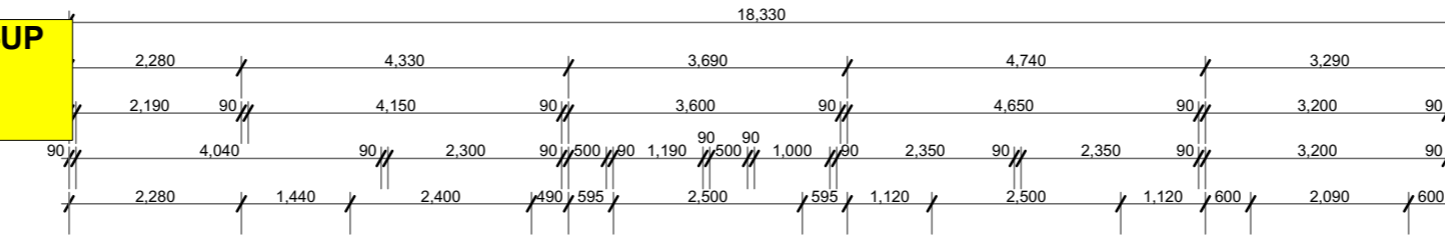
NOTE:
These drawings are to be read in conjunction with the specification documents, engineering details/drawings, manufacturer's specifications and truss designer/manufacturer's drawings.

KEY TO SUTHERLAND TIMBER TREATMENT MARK-UP (this is an Alternative Solution)

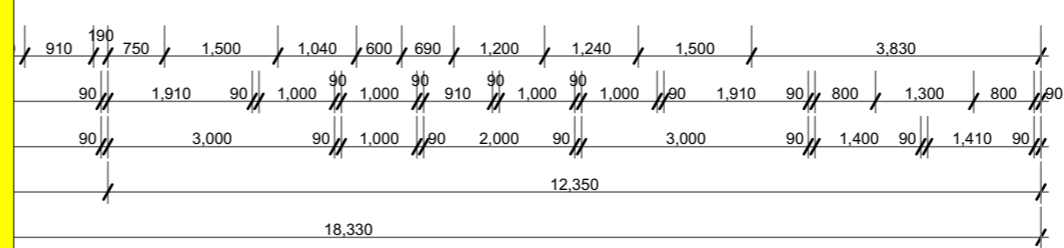
Green = Untreated Douglas Fir to external and internal wall framing. Also ventilated open roof truss framing where pitch >10°(NZS 3602)

Red = H1.2 Boron treated Douglas Fir wall framing where cladding not on a drained cavity, Acceptable Solution B2/AS1)

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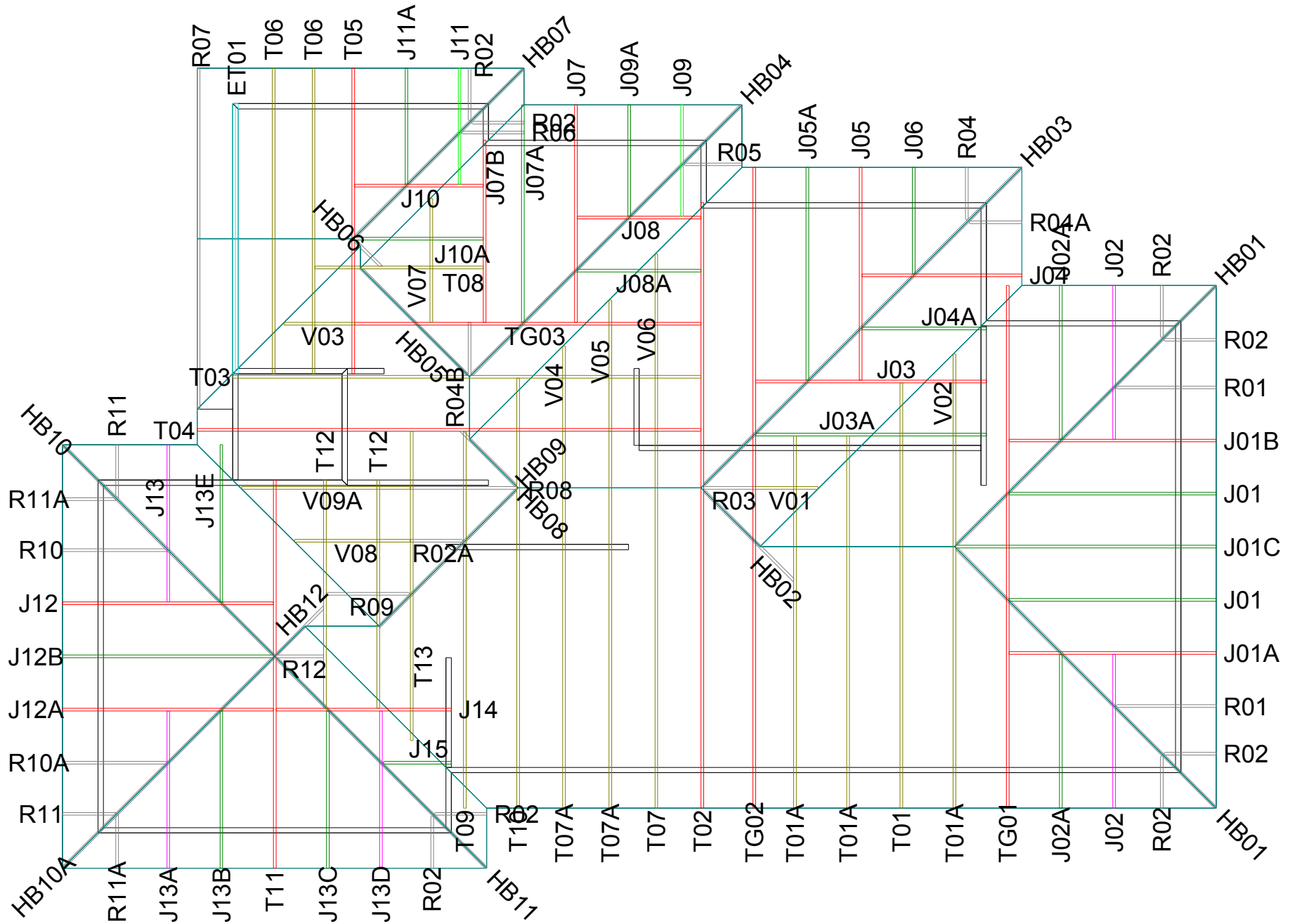


ALTERNATIVE SOLUTION (B2/AS1 and NZS 3602)
ROOF:
 ALL VENTILATED OPEN ROOF FRAMING TRUSSES TO BE UNTREATED DOUGLAS FIR.
 ALL ROOF PURLINS H 1.2 DOUGLAS FIR
 ACCEPTABLE SOLUTION B2/AS1)
 CEILING JOISTS, CEILING BATTENS & PACKERS TO BE UNTREATED DOUGLAS FIR (ACCEPTABLE SOLUTION B2/AS1 3.2.2.2)
WALLS:
 EXTERNAL WALL FRAMES TO BE H1.2 DOUGLAS FIR WHERE CLADDING ON UNDRAINED CAVITY (ACCEPTABLE SOLUTION B2/AS1 & NZS 3602)
 EXTERNAL AND INTERNAL WALL FRAMES TO BE UNTREATED DOUGLAS FIR WHERE EAVES >450MM AND CLADDING ON DRAINED CAVITY (NZS 3602 AND B2/AS1)
 CAVITY BATTENS WHERE USED AS PART OF A CLADDING SYSTEM TO BE AS PER MANUFACTURERS SPECIFICATION.
 ALL FRAMING SIZES TO BE AS SHOWN IN ARCHITECTS AND ENGINEERS DRAWINGS.
 THIS MARK-UP IS SOLEY FOR THE PURPOSE OF IDENTIFYING TIMBER TREATMENT LEVELS WITHIN THE BUILDING ENVELOPE.



Scale 1:100

| | | |
|-------------|------------------|---------------------------------------|
| | Project Name: | McQuilkan-May Residence |
| | Project Address: | Lot 229, Stage 5, Flemington, Lincoln |
| Sheet: | 31 | Revision: B |
| Job No: | 0717-060 | Date: 31/08/2017 |
| Consultant: | N. James | Drawn: C. Barnfield |



Site Address :
 McQuilkan / May Residence
 Lot 229, stage 5
 Flemington, Lincoln

Sheet Title :
**For Building Consent
 Buildable Truss Layout**

Date : 21 Jun,2017 Drawn : Clayton Lynskey
 Scale : 1:100 System : MiTek 20/20

Job Details:
 Roof Pitch : 24.00deg
 Roof Material : Galv Iron .5mm
 Ceiling Material : Rondo on clips
 Wind Zone : High
 Roof Snow Load : 0.454kPa

Truss Centres : 900mm
 Roof Live Load : 0.250kPa
 Floor Live Load :
 Wind Speed : 44m/s
 Overhang : 600mm



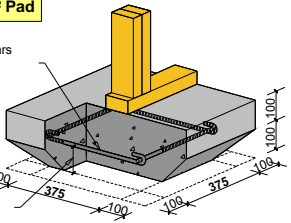
Job Title :
061708
 Sheet :
1
 Revision Number :

SDC - Approved Building Consent Document BC 1489 - Pg 34 of 35 - 1/09/2017 - 300kPa

SLAB THICKENING & STUD REQUIREMENTS

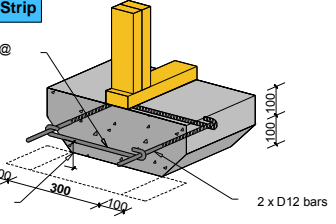
TYPE FP1
375mm² Pad

2 3



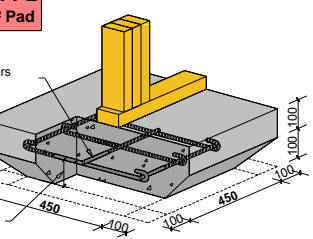
TYPE FS1
300mm Strip

2 3



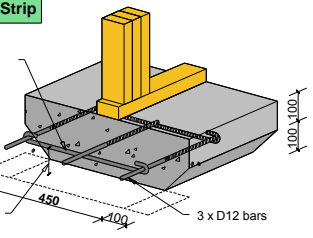
TYPE FP2
450mm² Pad

3 4



TYPE FS2
450mm Strip

3 4



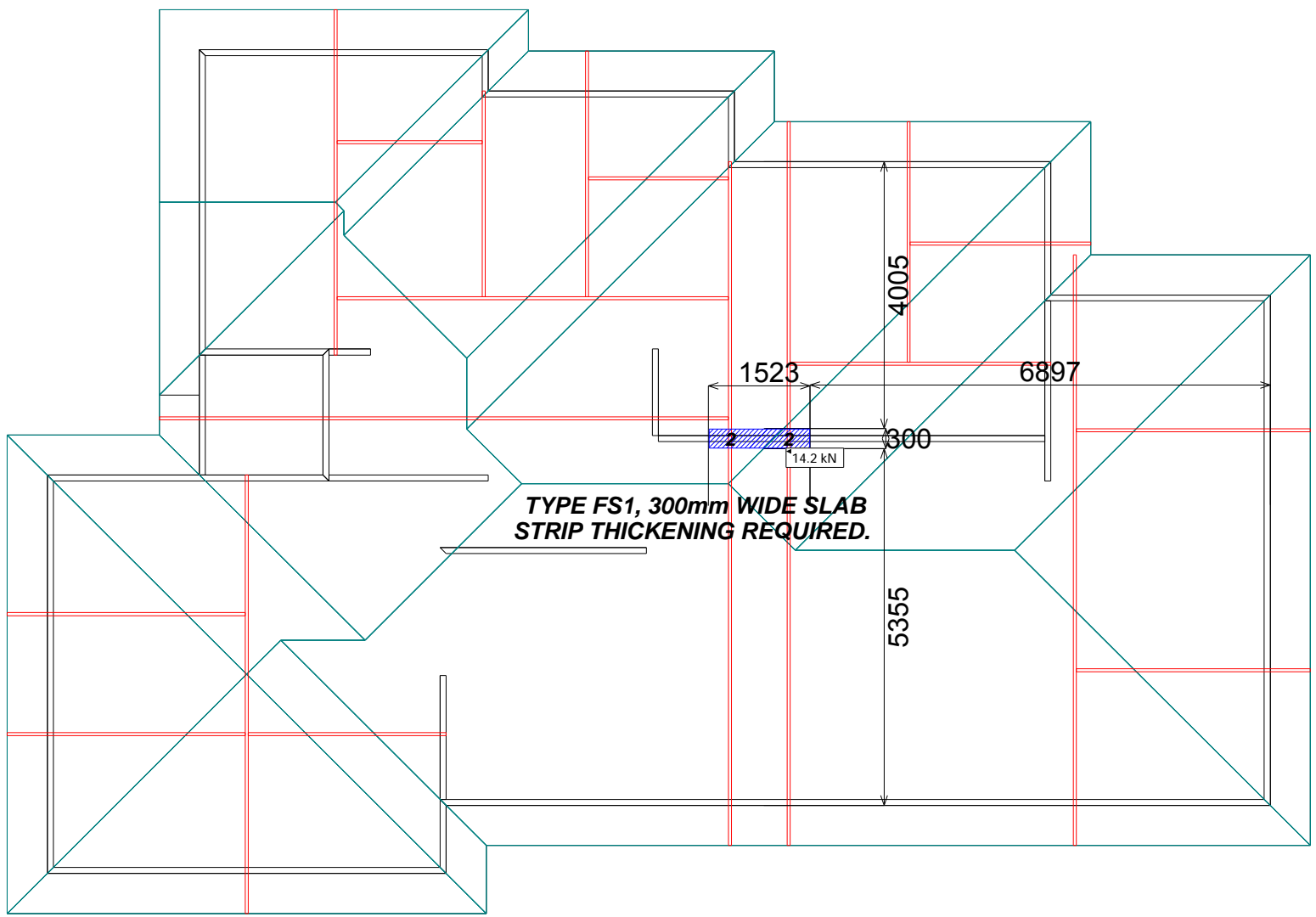
Concrete Slab Thickening Guide

The numbers found in the hatched areas are the numbers of studs required below each truss

Standard 100mm reinforcing concrete slab, as per NZS3604:2011

Refer to: Internal Load Bearing on Concrete Floor Slabs 10/2011

MiTek Structural Fixings On-Site Guide for Building Code Compliance



Site Address:
McQuilkan / May Residence
Lot 229, stage 5
Flemington, Lincoln

Sheet Title:
**For Building Consent
Slab Thickening**

Date: 21 Jun,2017 Drawn: Clayton Lynskey
Scale: 1:100 System: MiTek 20/20

Job Details:
Roof Pitch : 24.00deg
Roof Material : Galv Iron .5mm
Ceiling Material : Rondo on clips
Wind Zone : High
Roof Snow Load : 0.454kPa

Truss Centres : 900mm
Roof Live Load : 0.250kPa
Floor Live Load :
Wind Speed : 44m/s
Overhang : 600mm



PrimeCad v4.7.105

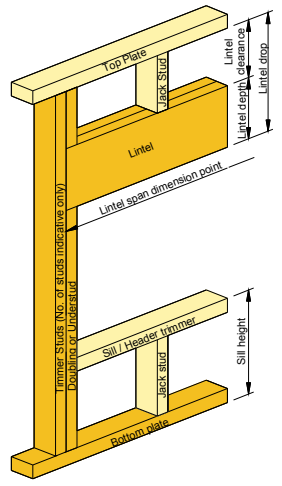
Job Title:
061708

Sheet:
2

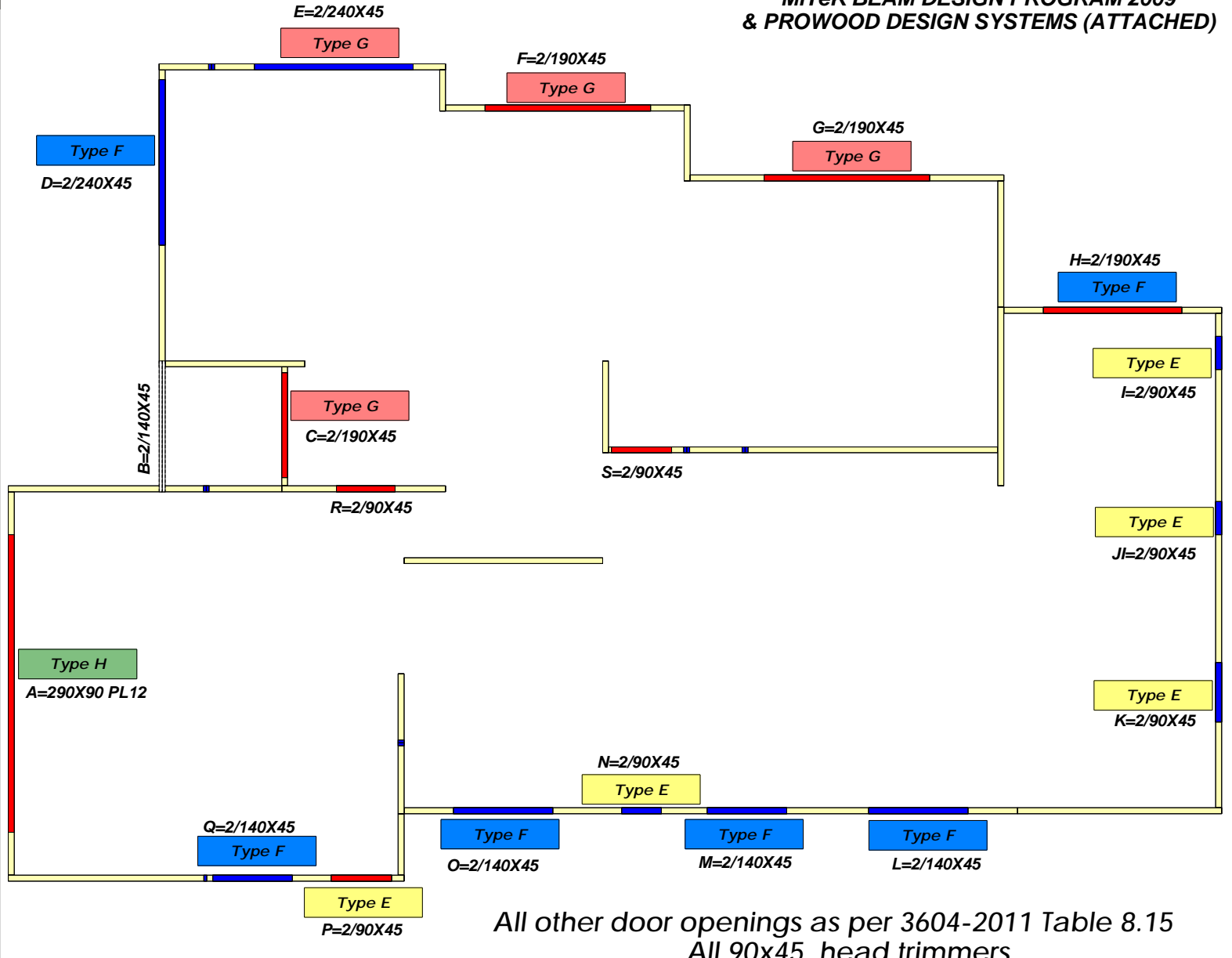
Revision Number:

LUMBERLOK® LINTEL FIXING OPTIONS

- TYPE E**
1.4 kN
- TYPE F**
4.0 kN
- TYPE G**
7.5 kN
- TYPE H**
13.5 kN



**ALL LINTELS ARE SIZED AS PER
MiTek BEAM DESIGN PROGRAM 2009
& PROWOOD DESIGN SYSTEMS (ATTACHED)**



Refer to LUMBERLOK Lintel Fixing Schedule 10/2011
MiTek Structural Fixings On-Site Guide for Building Code Compliance
(Alternative to Table 8.14 & Figure 8.12 NZS 3604:2011)



Site Address :
McQuilkan / May Residence
Lot 229, stage 5
Flemington, Lincoln

Sheet Title :
**For Building Consent
Lintel Fixing**

Date : 21 Jun,2017 Drawn : Clayton Lynskey
Scale : 1:100 System : MiTek 20/20

Job Details:
Roof Pitch : 24.00deg
Roof Material : Galv Iron .5mm
Ceiling Material : Rondo on clips
Wind Zone : High
Roof Snow Load : 0.454kPa

Truss Centres : 900mm
Roof Live Load : 0.250kPa
Floor Live Load :
Wind Speed : 44m/s
Overhang : 600mm



Job Title :
061708

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LUMBERLOK[®] STUD TO TOP PLATE

TYPE A
0.7 kN

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

TYPE B
4.7 kN

CHOOSE ANY OF THE 3 OPTIONS BELOW

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

2 x LUMBERLOK CPC40

Recommended for internal wall options to avoid lining issues

OR

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

1 x LUMBERLOK 6 kN Stud Anchor (C80)

Recommended for internal wall options to avoid lining issues

CPC80 Installation

OR

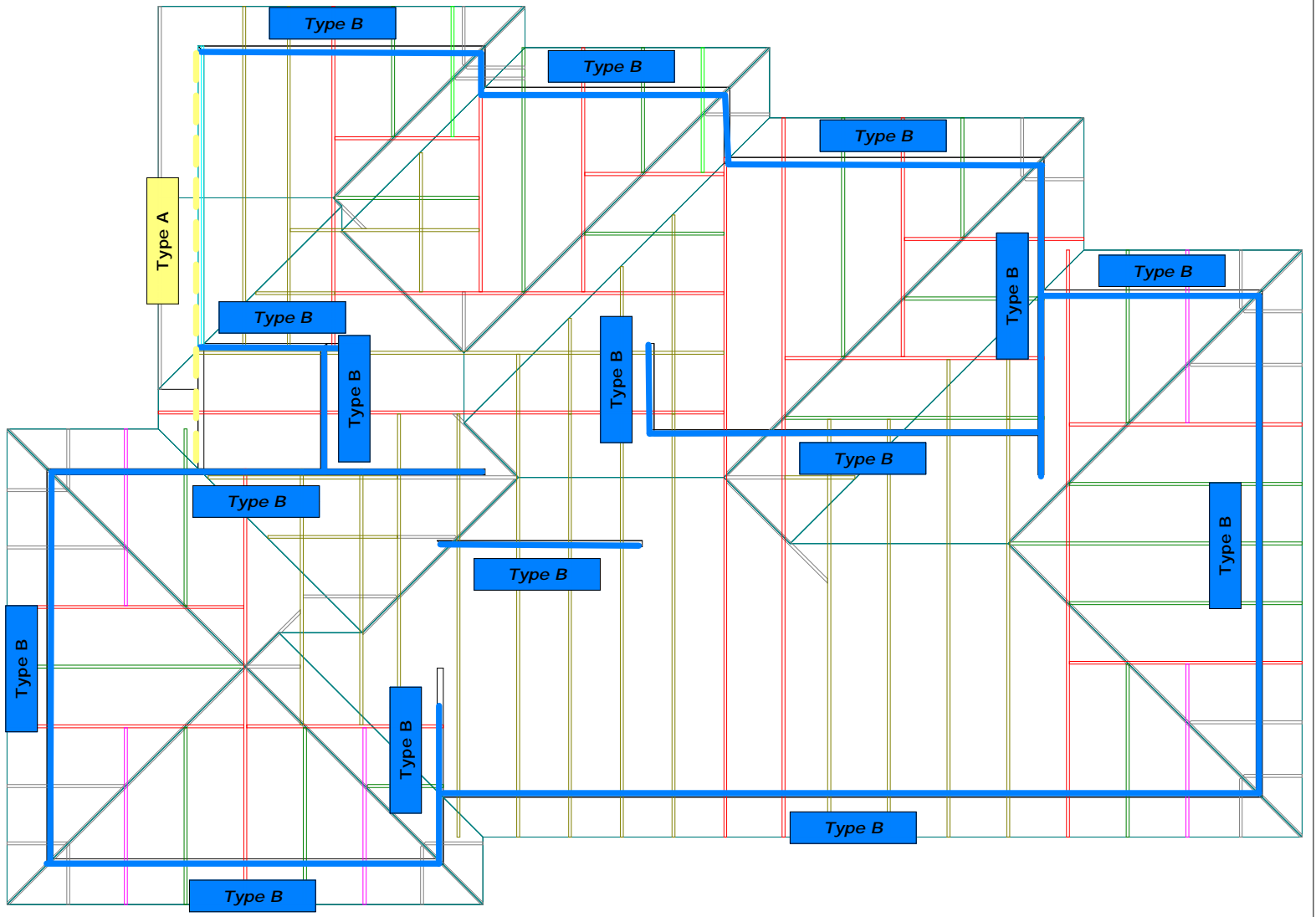
2 x 90mm x 3.15 Ø plain steel wire nails driven vertically into stud.

1 x LUMBERLOK Stud Strap

Stud Strap Installation

Plate to Top Plate Fixing Schedule

Refer to: LUMBERLOK Stud to Top Plate Fixing Selection Chart 09/2011
MITek Structural Fixings On-Site Guide for Building Compliance (Alternative to NZS 3604:2011 Table 8.18)



Site Address:
McQuilkan / May Residence
Lot 229, stage 5
Flemington, Lincoln

Sheet Title:
**For Building Consent
Stud To Top Plate Fixing**

Date: 21 Jun,2017 Drawn: Clayton Lynskey
Scale: 1:100 System: MiTek 20/20

Job Details:
Roof Pitch : 24.00deg
Roof Material : Galv Iron .5mm
Ceiling Material : Rondo on clips
Wind Zone : High
Roof Snow Load : 0.454kPa

Truss Centres : 900mm
Roof Live Load : 0.250kPa
Floor Live Load :
Wind Speed : 44m/s
Overhang : 600mm



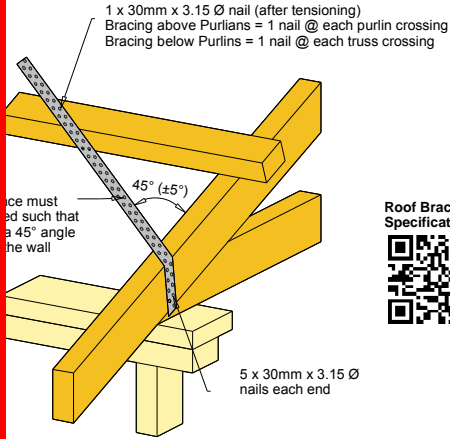
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LUMBERLOK[®] ROOF BRACING



Roof Bracing Specifications

Refer to:
 LUMBERLOK Roof Bracing Specifications 10/2011
 MITEK Structural Fixings **On-Site Guide** for Building Code Compliance
 (As per NZS 3604:2011)

LUMBERLOK[®] TRUSS FIXINGS

- D - Pair of Wire Dogs and 2 x 90mm 3.15mm skew nails
- X - LUMBERLOK JH47x90 Joist Hanger
- LU - LUMBERLOK JH47x120 Joist Hanger
- LU - LUMBERLOK JH47x190 Joist Hanger
- LU - LUMBERLOK JH95x165 Joist Hanger
- LU - LUMBERLOK CT200 Ceiling Tie
- P - Pair of LUMBERLOK CT200 Ceiling Ties
- LU - LUMBERLOK CT400 Cyclone Tie
- P - LUMBERLOK CT600 Cyclone Tie
- P - Pair of LUMBERLOK Multi Grips
- N - LUMBERLOK Nailon Plate
- LU - LUMBERLOK N21 Diagonal Cleat
- LU - LUMBERLOK CPC40 Cleat
- W - Pair of LUMBERLOK CPC40 Cleats
- T - LUMBERLOK TTP 16kN Truss to Top Plate set
- LU - LUMBERLOK TTP 9kN Truss to Top Plate set



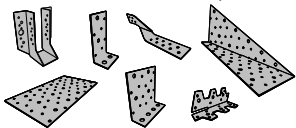
Joist Hanger Installation



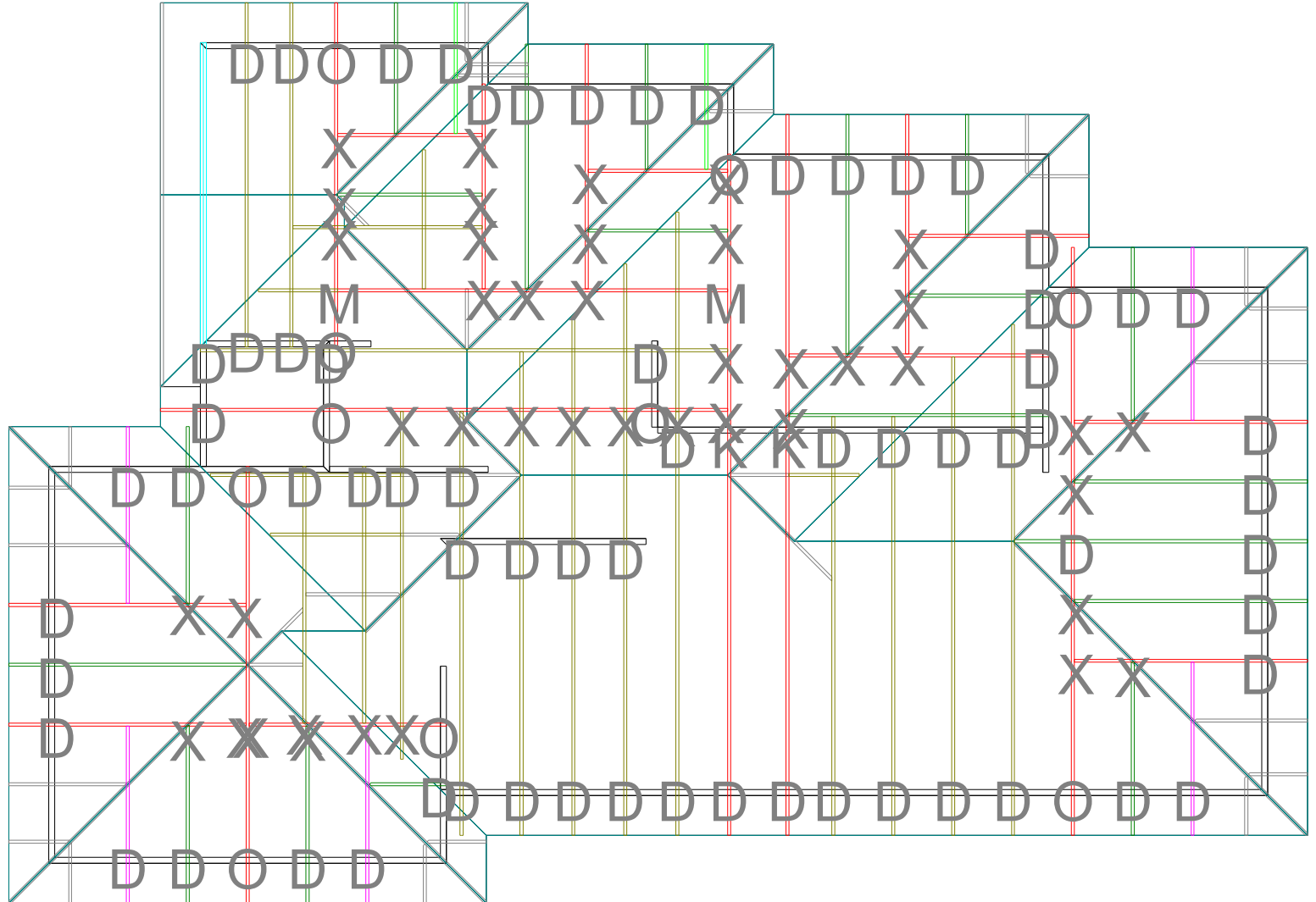
CT200 Truss to Top Plate Fixing Installation



16kN & 9kN Truss to Top Plate Fixing Installation



Notes:
 All other areas must have the minimum 2 x 90mm 3.15mm skew nails and wire dogs for truss to top plate connections
 Refer to:
 LUMBERLOK Timber Connectors Characteristic Loadings Data Brochure
 08/2014



Site Address:
 McQuilkan / May Residence
 Lot 229, stage 5
 Flemington, Lincoln

Sheet Title:
**For Building Consent
 Truss Fixings & Roof Bracing**

Date: 21 Jun, 2017 Drawn: Clayton Lynskey
 Scale: 1:100 System: MiTek 20/20

Job Details:
 Roof Pitch : 24.00deg
 Roof Material : Galv Iron .5mm
 Ceiling Material : Rondo on clips
 Wind Zone : High
 Roof Snow Load : 0.454kPa

Truss Centres : 900mm
 Roof Live Load : 0.250kPa
 Floor Live Load :
 Wind Speed : 44m/s
 Overhang : 600mm



Job Title:
061708
 Sheet:
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 Revision Number: