

# 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<br/>inspection<br/>will be done</i> | <i>After 3pm<br/>inspection<br/>will be done</i> |
| Monday                        | Wednesday                                         | Thursday                                         |
| Tuesday                       | Thursday                                          | Friday                                           |
| Wednesday                     | Friday                                            | Monday                                           |
| Thursday                      | Monday                                            | Tuesday                                          |
| Friday                        | Tuesday                                           | Wednesday                                        |

| Layout ID | Layout Name            |
|-----------|------------------------|
| A1.01     | Site Plan              |
| A1.02     | Sediment Control Plan  |
| A1.03     | Foundation Plan        |
| A1.04     | Drainage Plan          |
| A2.01     | Ground Floor Plan      |
| A2.02     | Framing Plan           |
| A2.03     | Roof Plan              |
| A2.04     | Bracing Plan           |
| A2.05     | Electrical Plan        |
| A3.01     | Elevations             |
| A3.02     | Elevations             |
| A4.01     | Cross Section          |
| A4.02     | Longitudinal Section   |
| A5.01     | Details                |
| A5.02     | Details                |
| A5.03     | Details                |
| A5.04     | Details                |
| A5.05     | Details                |
| A5.06     | Details                |
| A5.07     | Details                |
| A5.08     | Details                |
| A5.09     | Details                |
| A5.10     | Details                |
| A6.01     | Door & Window Schedule |

PROPOSED NEW RESIDENCE

FOR

SOLAKOF & FIEBIG



|                            |                                                       |
|----------------------------|-------------------------------------------------------|
| Site Area                  | 482m <sup>2</sup>                                     |
| Floor Area over Framing    | 155.27 m <sup>2</sup>                                 |
| Floor Area over Foundation | 155.27 m <sup>2</sup>                                 |
| Site Coverage              | 32.21% (40% Allowable)                                |
| Impervious Surface Area    | 71.88m <sup>2</sup> (15% Excluding Dwelling & Garage) |
| Territorial Authority      | Selwyn District Council                               |
| Planning Zone              | Living Z Medium Density (TBC)                         |
| Flood Management Area      | NO                                                    |
| Wind Zone                  | A - High                                              |
| Earthquake Zone            | Zone 2                                                |
| Technical Category         | TC1 Area (Grey)                                       |

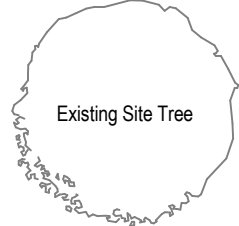
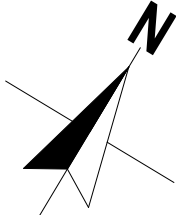
• Foundation Options - Technical Category 1 (TC1): Future land damage from liquefaction is unlikely and ground settlements are expected to be within normally accepted tolerances. Standard foundations (NZS 3604) are acceptable subject to shallow geotechnical investigation.

|                               |                                                                                                                                                                                |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coastal Hazard                | N/A                                                                                                                                                                            |
| General:                      | Concept subject to TA rules and regulations.<br>All dimensions to be confirmed on site<br>Concept may be subject to subdivision developer's approval                           |
| Foundation Type:              | NZS 3604:2011 (To be confirmed with Geotechnical Report)                                                                                                                       |
| Site Information:             | Position of road crossing, services locations, street trees, lamp posts, parking bays, pedestrian islands etc is unknown - to be confirmed when information becomes available. |
| Boundary Information:         | Preliminary Only to be confirmed with release of Certificate of Title                                                                                                          |
| Site Levels:                  | Levels and other relevant site information for this site to be obtained and concept updated as required prior to a contract being signed                                       |
| Landscaping:                  | This is indicative only purely for presentation purposes. Landscaping to be confirmed by the client. All Fencing to comply with the relevant Covenants                         |
| Historical Interest:          | N/A                                                                                                                                                                            |
| Existing Use Rights:          | N/A                                                                                                                                                                            |
| Flood Management Area:        | N/A                                                                                                                                                                            |
| Non Compliances Requiring RC: | N/A                                                                                                                                                                            |

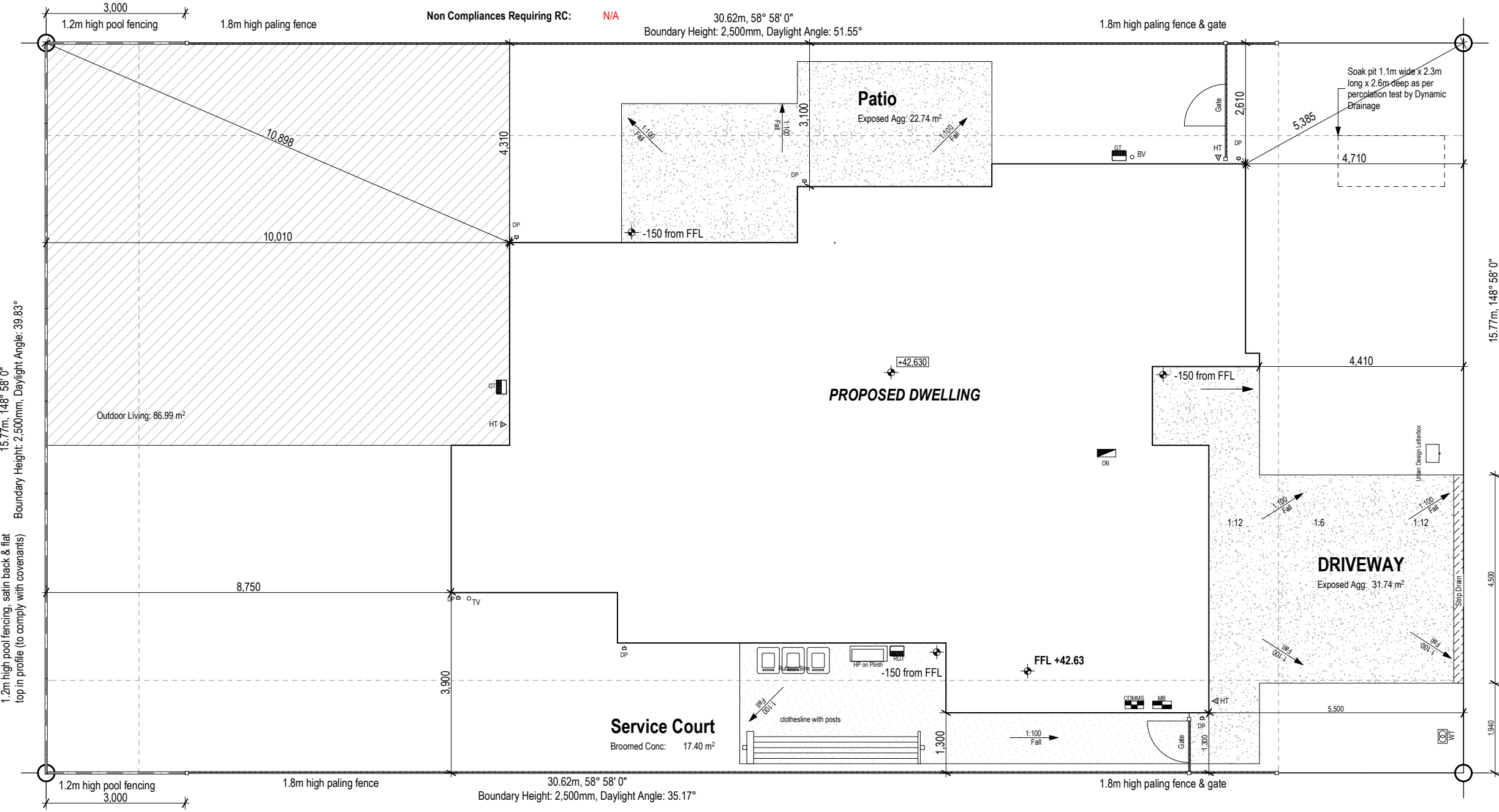
A Steps or appropriate landscaping is to be provided if drop from external doors is greater than 190mm from FFL to FGL.  
All access routes must provide a non-slip surface in accordance to NZBC D1/AS Table 2. Convey surface water from sealed drive to an appropriate approved outfall.

Driveway falls @ 1:100 →  
Paving falls @ 1:100 →  
Service Court Area falls @ 1:100 →

Planning Approved



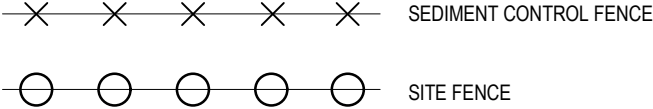
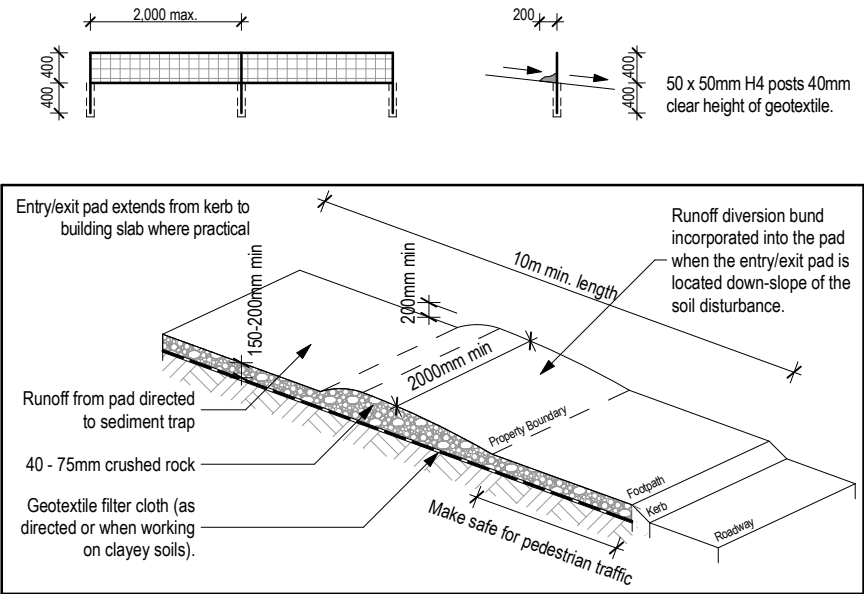
HUNGERFORD DRIVE



| <div></div> <div>© Mike Greer Homes NZ Ltd</div> <div>PHONE: (03) 354 0166   FAX: (03) 354 0167</div> <div>ADDRESS: 8 Nazareth Ave Middleton Christchurch 8024</div> <div>WEB: www.mikagreerhomes.co.nz</div> | JOB TITLE:<br><b>SOLAKOF &amp; FIEBIG</b> | DRAWING TITLE:<br><b>Site Plan</b> | LEGAL DESCRIPTION:<br><br>LOT: 931 DP: TBC<br><br>HUNGERFORD DR<br>FARINGDON<br>ROLLESTON | NOTES:<br><br>- Subject to council approval<br>- All measurements to be confirmed on site by the contractor prior to the commencement of work<br><br>© 2015 Mike Greer Homes NZ Limited.<br>All rights reserved. No part of this work covered by copyright may be reproduced or copied in any form or by any means without the written permission of Mike Greer Homes NZ Limited | <table><tr><th>REV #</th><th>CH #</th><th>DESCRIPTION</th><th>DATE</th></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table> | REV # | CH # | DESCRIPTION | DATE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | DATE OF ISSUE:<br>01.07.2016<br><br>AMENDMENT DATE:<br>22.09.2016 | DESIGNER:<br>AJ/MV<br>TECHNICIAN:<br>IV<br>VERSION:<br>V4<br>CODE:<br>A | SCALE:<br>1:100<br><br>JOB #<br>4692<br>REV: | SHEET:<br><br><br><br><br><br><b>A1.01</b> |
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|                                                                                                                                                                                                                                                                                                 | REV #                                     | CH #                               | DESCRIPTION                                                                               | DATE                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                           |       |      |             |      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |                                                                   |                                                                         |                                              |                                            |
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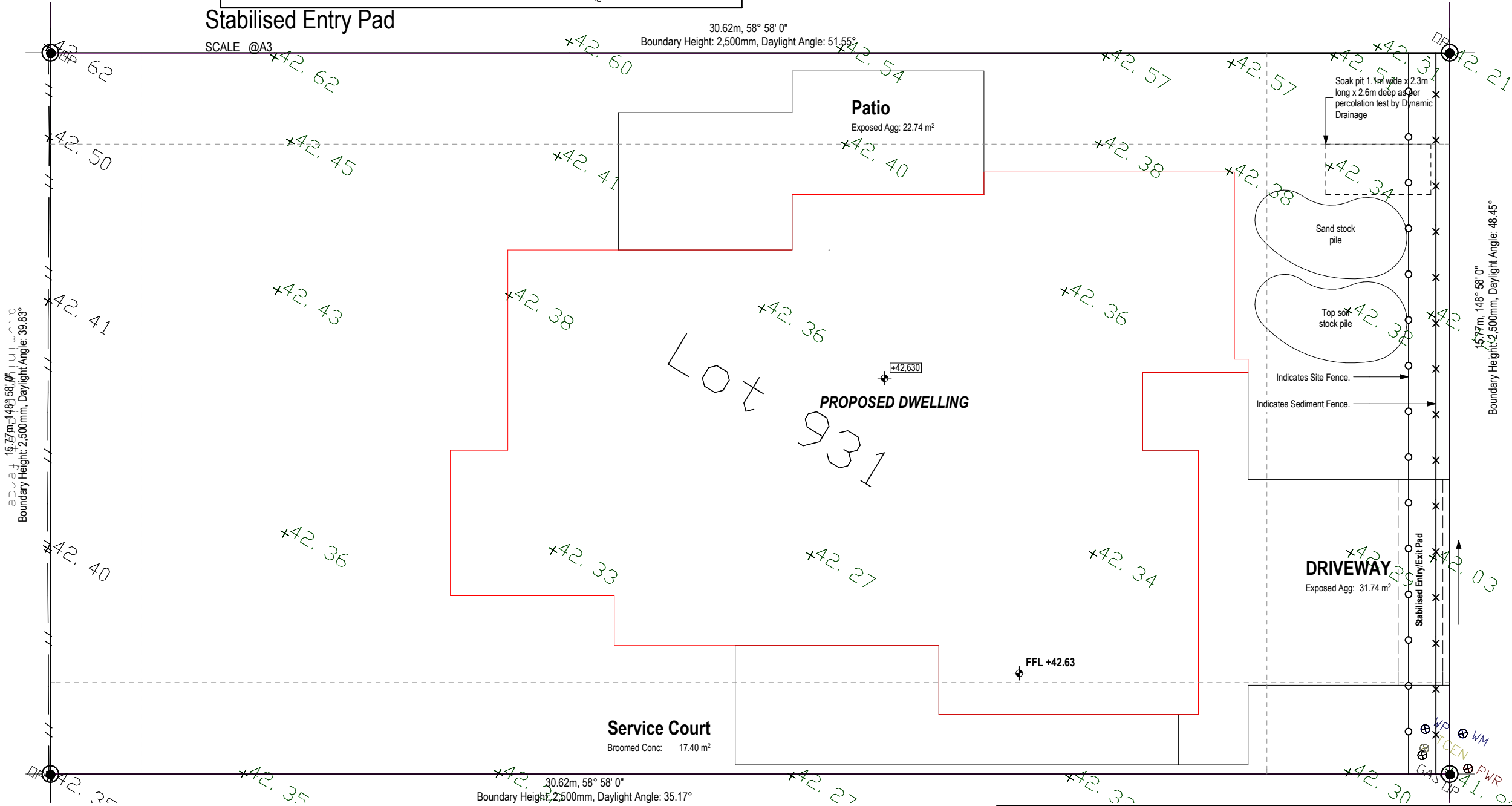
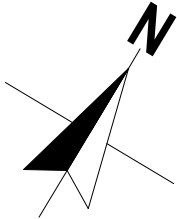
Sediment Control:

- Rumble pad to be created at point of entry & exit on site (Removed on completion of formed driveway)
  - Rumble pad to be created in accordance to guidelines provided by the local Council & maintained in good condition throughout it's period of use.
  - All ground cover/vegetation outside of immediate build area to be maintained throughout period of house build. This includes grass verges on the street frontage.
  - Any stockpiles of soil or excavated material are to be kept to the rear of the site & covered with impervious sheets.
  - Roof downpipes are to be connected to the installed stormwater drainage as soon as practical once roof cladding has been installed. Until this point ensure water run-off from downpipes is directed away from build area but not on to neighbouring properties.
- No building work will be started on this project until the construction of an approved stormwater outfall has been completed for this proposed lot.



Main contractor to provide 2m min. high chain link fence (min. size 50 x 50mm) to prevent unauthorised entry to the site. All fencing to comply with F5 including relevant hazard signage.

Main contractor to provide on site a specific Health & Safety policy which is to be viewed & signed by all Sand stock pile persons entering the site.



SDC - Approved Building Consent Document - BC162741 - Pg 5 of 26 - 3/03/2017 - brown

- All topsoil should be removed from beneath the area of the floor slab & the CAP40 hardfill should be placed in layers not exceeding 200mm loose depth & compacted to achieve a minimum dry density of 2,150kg/m<sup>3</sup>.

-For floors with more than one finished level, ensure step in foundation is constructed with 20MPa concrete in accordance with NZBC D1/AS1. Minimum tread depth 280mm, maximum riser height 190mm

- slab & footings to be 20MPa @ 28 days of standard curing.

- Avoid construction joints & shrinkage controls under tiled areas. No shrinkage control cuts to be placed under framing that is to be used as a bracing element.

- Maximum dimension (In plan) between shrinkage controls is 6m with mesh.

- supplementary reinforcing (2/D12 1200mm long) to internal corners where shrinkage controls do not meet the internal corner.

- JC riser locations have a typical offset of 140mm from internal line of framing to center of waste. (Manufacturers technical specifications should be consulted to confirm offset)

- Vanity & Tub riser locations have a typical offset of 45mm to centre line of wall framing to centre of waste.

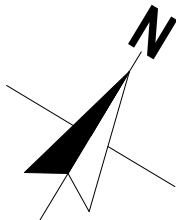
- Mesh in floor slab must be earthed. Earth with 16mm REO rod brought up into garage wall below meterox & wired to the mesh. At prewire, connect a clamp & piece of wire to rod & earth it to the meterbox.

- Minimum heights of concrete slab on ground above surrounding ground levels to be:

Cladding - 150mm to sealed surface & 225mm to unsealed ground as per NZBC E2

Finished floor level to be 150mm minimum above crown of road as per NZBC E1/AS1.

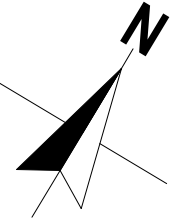
- Confirm layout of fittings of kitchen & bathroom etc. before foundation commences.



|                                                                                                                                                                                                                                                                                                 |                                           |                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                              |                               |                 |                        |      |
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|                                                                                                                                                                                                                                                                                                 |                                           |                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                              | TECHNICIAN:<br>IV             | JOB #           |                        |      |
|                                                                                                                                                                                                                                                                                                 |                                           |                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                              | AMENDMENT DATE:<br>22.09.2016 | VERSION:<br>V4  | CODE:<br>A             | REV: |
|                                                                                                                                                                                                                                                                                                 |                                           |                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                              |                               | 4692            |                        |      |
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|                                                                                                                                                                                                                                                                                                 |                                           |                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                              |                               |                 |                        |      |



|                              |                                                                                                  |
|------------------------------|--------------------------------------------------------------------------------------------------|
| Floor Area (Over Framing)    | 155.27 m <sup>2</sup>                                                                            |
| Floor Area (Over Foundation) | 155.27 m <sup>2</sup>                                                                            |
| Maximum Building Height      | 8m                                                                                               |
| Perimeter (Over Foundation)  | 61,080.m                                                                                         |
| Wall Cladding Materials      | Rockcote 50mm Integra on 20mm cavity<br>Cedar Horizontal Rusticated Weatherboards on 20mm cavity |



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## Roofing Materials

|                     |             |
|---------------------|-------------|
| Construction Method | TRADITIONAL |
| Bed Bathroom        | NO          |
| Linings             | USG         |

|                              |           |
|------------------------------|-----------|
| Roof Pitch                   | 10° , 15° |
| Eaves Width                  | 450mm     |
| Height To Underside Of Truss | 2455mm    |
| Intel Height                 | 2105mm    |
| Offset Height                | N/A       |

Note: in High Wind Zone 2455mm stud height: studs @ 600mm centres

|                           |                             |
|---------------------------|-----------------------------|
| Internal Door Leaf Height | Standard                    |
| Internal Door Leaf Width  | Typically 810mm             |
|                           | Typically 710mm (Wet Areas) |

Gas Supply NO  
Underfloor Heating To Areas Bathroom, Ensuite

**General:** All dimensions to be confirmed on site

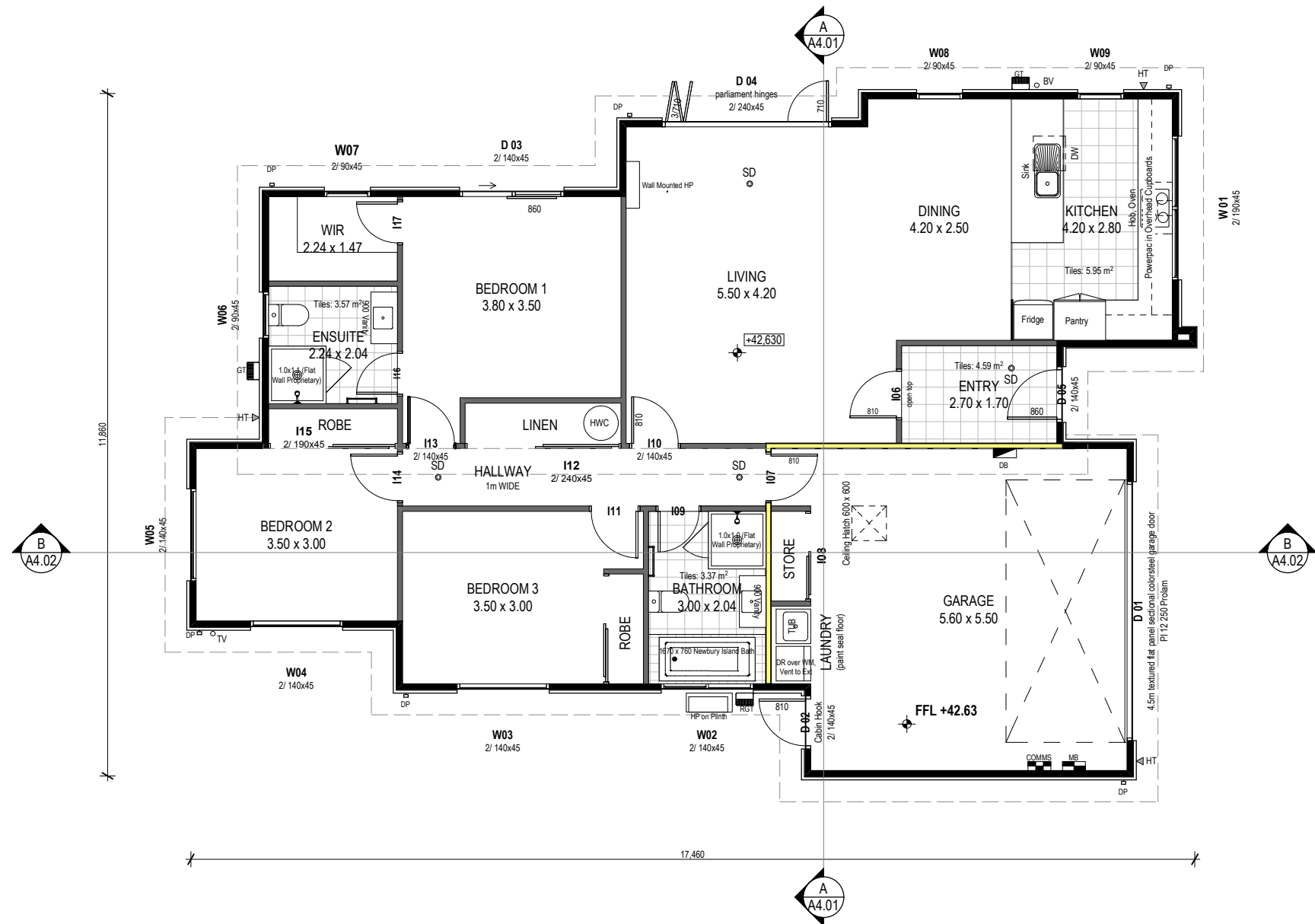
**Mounting:** Heat pump to be fixed in position shown on the drawings.  
Refer to specifications for more information.

**Ceiling Vents:** Bathroom & Ensuite to vent directly to exterior  
Dryer to vent directly to exterior  
Range Hood to exit through soffit lining.  
Bathroom & Ensuite extraction systems to be automated and placed to adequately deal with steam

**Smoke Alarms:** Required within 3m of all sleeping areas, change in level & entry/exits as per NZS 4514 & BRANZ Bulletins No's 252 & 309

**EXTRAS:** N/A

ENGINEERING: N/A



**NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS**

|                                                                                                                                                                                                                                                                                                 |                  |                   |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                   |       |      |             |      |                |           |        |        |  |                 |             |         |
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|                                                                                                                                                                                                                                                                                                 | SOLAKOF & FIEBIG | Ground Floor Plan | LOT: 931 DP: TBC<br><br>HUNGERFORD DR<br>FARINGDON<br>ROLLESTON | <div>- Subject to council approval</div> <div>- All measurements to be confirmed on site by the contractor prior to the commencement of work</div> <div>© 2015 Mike Greer Homes NZ Limited.</div> <div>All rights reserved. No part of this work covered by copyright may be reproduced or copied in any form or by any means without the written permission of Mike Greer Homes NZ Limited</div> |       |      |             |      | 01.07.2016     | AJ/MV     | 1:100  | A2.01  |  |                 |             |         |
|                                                                                                                                                                                                                                                                                                 |                  |                   |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                   |       |      |             |      |                |           |        |        |  | TECHNICIAN:     |             |         |
|                                                                                                                                                                                                                                                                                                 |                  |                   |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                   |       |      |             |      |                |           |        |        |  | AMENDMENT DATE: | RV          | JOB #   |
|                                                                                                                                                                                                                                                                                                 |                  |                   |                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                   |       |      |             |      |                |           |        |        |  | 22.09.2016      | VERSION: V4 | CODE: A |

GENERAL NOTES:

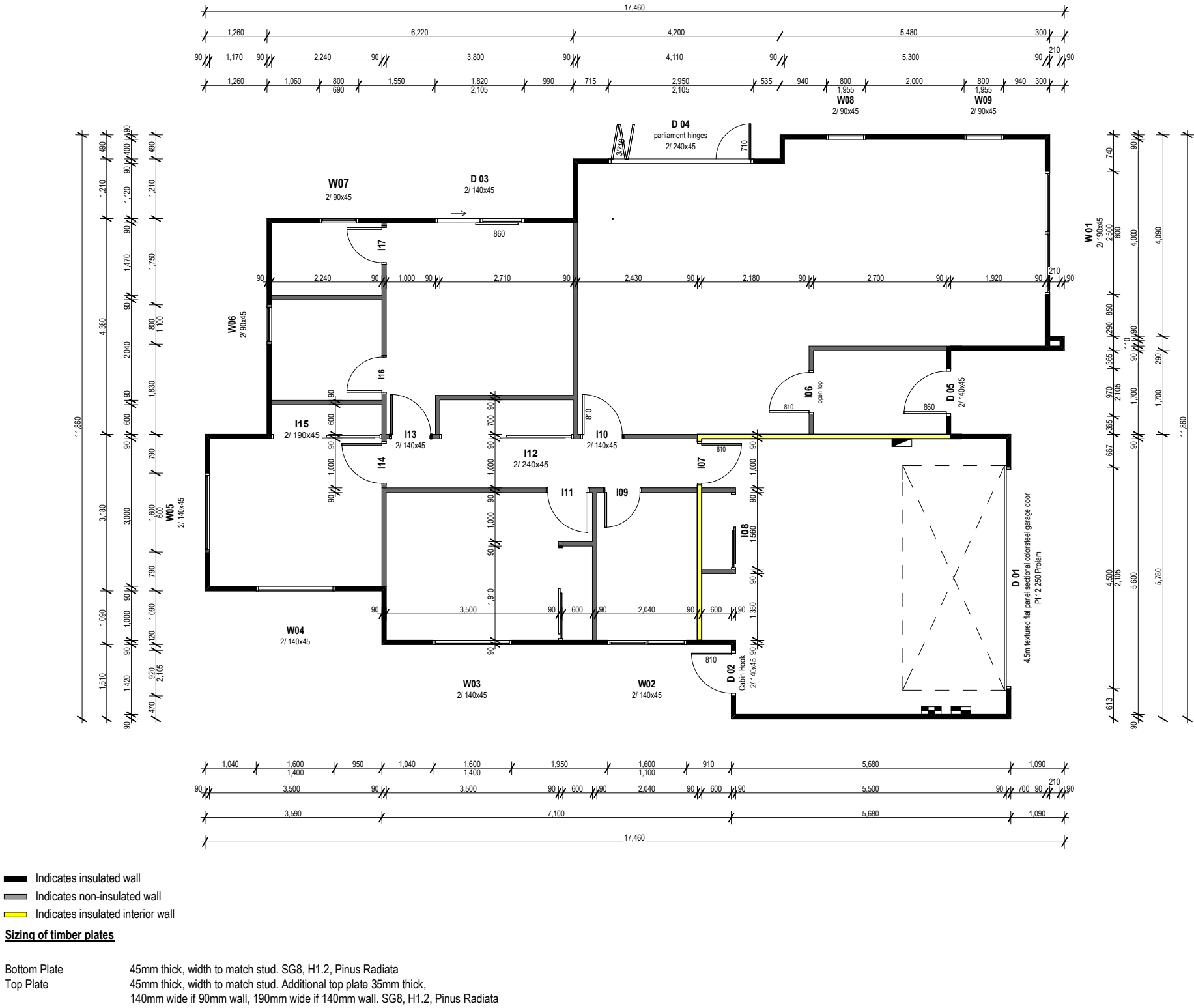
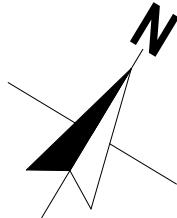
|                            |                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Floor area over framing:   | 155.27 m²                                                                                                                                             |
| Insulation:                | R2.6 Exterior walls (+ interior garage walls)<br>R3.6 Ceiling (exculding garage)                                                                      |
| Typical stud height:       | 2455mm to underside of truss. 90x45mm SG8<br>@ 600mm crs max. in A - High wind zone.                                                                  |
| Window lintel height:      | 2105mm                                                                                                                                                |
| Internal door leaf height: | Standard, unless noted otherwise<br>(OH = Overheight)                                                                                                 |
| Internal door leaf width:  | Typically mm<br>Typically 710mm (Wet areas)                                                                                                           |
| General:                   | All exterior window & door lintels by truss manufacturer. Internal non-loadbearing walls to be SG8 graded.<br>All dimensions to be confirmed on site. |

FIXING SCHEDULE:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>JOINT: FIXING:</b><br>Exterior Bottom plate to concrete floor (Non-braced):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Pryda Bottom Plate Anchors with 75x4mm dia. concrete nails adjacent to anchor 70mm min from edge of slab. as per manufacturers specifications. @ 900mm crs. max as per NZS3604:2011.<br><b>Refer to bracing plan for additional</b>                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>hold down fixings.</b><br>Interior bottom plate to concrete floor:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 75 x 8mm shot fired fastenings with 16mm washers @ 600mm crs, within 150mm each end of plate.<br><b>Refer to bracing plan for additional</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>hold down fixings.</b><br>Stud to Bottom or Top plate:<br>Dwang to stud:<br>Fish plate to Straightened stud:<br>Half Joint in top Plate:<br>Lintel to trimming Stud:<br>Standard soffit stringer to stud:<br>Sill trimmer to trimming stud for:<br>- Trimmer not exceeding 2400mm<br>- Trimmer not exceeding 3000mm<br>- Trimmer not exceeding 3600mm<br>Double top plate to top plate:<br>Trimming studs together at openings,<br>Studs & blocking at wall intersections:<br>Trimming Stud to Doubling Stud immediately under lintels:<br>Trusses to Top Plate:<br>3.15mm skew nails plus<br>4.7Kn))<br>Ceiling battens to Truss bottom chord:<br>Outrigger to Gable Top Plate:<br>Outrigger to Truss:<br>Flying Rafter to Outrigger:<br>Outrigger Blocking to Top Plate:<br>Purlins to Truss: | 4/100 x 3.15mm skewed nails<br>2/100 x 3.15mm skewed nails<br>4/60 x 2.8mm nails each side<br>4/100 x 3.15mm skewed nails<br>4/100 x 3.15mm skewed nails<br>2/100 x 3.75mm nails<br><br>2/100 x 3.75mm end nails<br>3/100 x 3.75mm end nails<br>4/100x3.75mm end nails<br>2/100 x 3.75mm @ 500mm crs<br><br>100 x 3.75mm nails @ 600mm crs<br><br>2/100 x 3.75mm nails<br>Refer to truss design (Or 2/90mm x 2/wiredogs. (Alt. fixing<br><br>2/75 x 3.15mm nails @ 400mm crs<br>1/14g self drilling screw, 150mm long<br>2/100 x 3.75mm end nails<br>2/100 x 3.75mm end nails<br>4/100 x 3.75mm skewed nails<br>1/10g self drilling screw, 80mm long |

SCHEDULE OF FRAMING TIMBERS - GRADING AND TREATMENT

|                                                                                                                                                                             |                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Wall framing</b><br>Exterior walls & lintels<br>Interior walls (loadbearing)<br>Interior walls (non-loadbearing)<br><b>Cavity battens:</b><br>-Dry Cavity<br>-Wet Cavity | SG8, H1.2, Pinus radiata<br>SG8, H1.2, Pinus radiata<br>SG8, H1.2, Pinus radiata<br><br>SG8, H3.2, Pinus radiata<br>SG8, H3.2, Pinus radiata |
| <b>Roof framing</b><br>Roof trusses - typical<br>Gable end truss<br>Coved or attic trusses<br>Purlins/Battens<br>Valley boards, barge boards                                | SG8, H1.2, Pinus radiata<br>SG8, H1.2, Pinus radiata<br>SG8, H1.2, Pinus radiata<br>SG8, H1.2, Pinus radiata<br>SG8, H1.2, Pinus radiata     |
| <b>Windows</b><br>Framing and reveals                                                                                                                                       | Dressed, H3.1, Pinus radiata                                                                                                                 |



NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS

|                                                                                                                                                                                                                                                          |                                           |                                       |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |                    |                 |                        |      |      |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------------|------|-----------------|--------------------|-----------------|------------------------|------|------|--|--|
| <br><br>© Mike Greer Homes NZ Ltd<br>PHONE: (03) 354 0166 I FAX: (03) 354 0167<br>ADDRESS: 8 Nazareth Ave Middleton Christchurch 8024<br>WEB: www.mikagreerhomes.co.nz | JOB TITLE:<br><b>SOLAKOF &amp; FIEBIG</b> | DRAWING TITLE:<br><b>Framing Plan</b> | LEGAL DESCRIPTION:<br><br>LOT: 931 DP: TBC<br><br>HUNGERFORD DR<br>FARINGDON<br>ROLLESTON | NOTES:<br>- Subject to council approval<br>- All measurements to be confirmed on site by the contractor prior to the commencement of work<br><br>© 2015 Mike Greer Homes NZ Limited.<br>All rights reserved. No part of this work covered by copyright may be reproduced or copied in any form or by any means without the written permission of Mike Greer Homes NZ Limited | REV # | CH # | DESCRIPTION | DATE | DATE OF ISSUE:  | DESIGNER:<br>AJ/MV | SCALE:<br>1:100 | SHEET:<br><b>A2.02</b> |      |      |  |  |
|                                                                                                                                                                                                                                                          |                                           |                                       |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | 01.07.2016      | TECHNICIAN:        |                 |                        |      |      |  |  |
|                                                                                                                                                                                                                                                          |                                           |                                       |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | AMENDMENT DATE: | IV                 | JOB #           |                        |      |      |  |  |
|                                                                                                                                                                                                                                                          |                                           |                                       |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | 22.09.2016      | VERSION:<br>V4     | CODE:<br>A      |                        | 4692 | REV: |  |  |
|                                                                                                                                                                                                                                                          |                                           |                                       |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |                    |                 |                        |      |      |  |  |
|                                                                                                                                                                                                                                                          |                                           |                                       |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |                    |                 |                        |      |      |  |  |

GENERAL NOTES:

AREA OVER ROOF (ON FLAT) TO FACE OF FASCIA: 189.86 m²

**ROOF CLADDING:**  
Selected 10° & 15° pitch Colorsteel Longrun Corrugate with 450 overhang/soffit over self supporting underlay on 70x45 H1.2 purlins/battens depending on gauge @ 900mm crs on approved nail plate trusses @ 900 crs min. 185mm Colorsteel fascia.

Proprietary 100mm coloursteel spouting with concealed brackets @ 800mm crs max. fixed to colorsteel fascia. (5,500mm² cross sectional area to spouting).

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

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

ROOF FRAMING:

All trusses to be designed & approved by a qualified truss manufacturer able to issue a producer statement prior to building consent approval, which shall guarantee satisfactory performance within the parameters of this design. The truss system design shall include bracing in accordance with NZS3604:2011.

Pitching height to be set at 2455 above FFL.

FIXING NOTES:

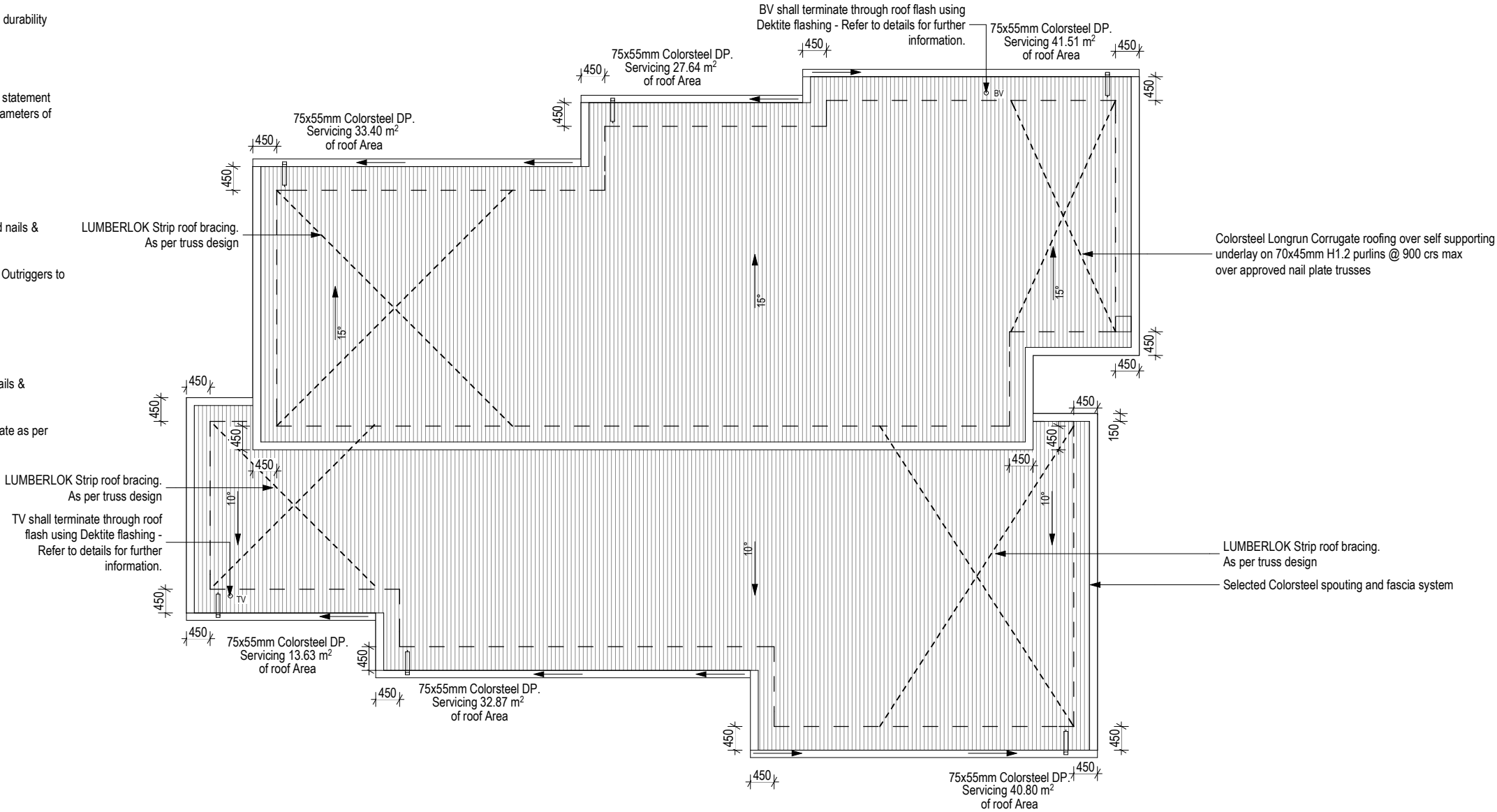
Purlins/Battens fixed to trusses with 1/10g x 80mm self-drilling screw or 2/100 x 3.75mm skewed nails & 1/wiredog. Top & bottom purlins shall be @ 600mm crs.

90x45mm H1.2 treated SG8 outriggers to gable verge to allow for 450mm overhand/eave width. Outriggers to span back to next truss.  
Outriggers to be fixed as per NZS3604:2011 Table 10.18:  
1/10g x 80mm self-drilling screw to wall framing.  
3/90 x 3.15mm nails to rafters.  
4/90 x 3.15mm skewed nails to blocking.

Selected nail plate trusses @ 900mm crs max. fixed to top plate with 2/100 x 3.75mm skewed nails & 2/wiredogs each side.

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

DP Indicates 75x50mm colorsteel downpipes (55m2 per dp)



SDC - Approved Building Consent Document - BC162741 - Pg 9 of 26 - 3/03/2017 - brown



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JOB TITLE:

**SOLAKOF & FIEBIG**

DRAWING TITLE:

**Roof Plan**

LEGAL DESCRIPTION:

LOT: 931 DP: TBC

HUNGERFORD DR  
FARINGDON  
ROLLESTON

NOTES:

- Subject to council approval  
- All measurements to be confirmed on site by the contractor prior to the commencement of work

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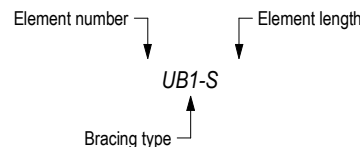
| NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS |      |             |      |                 |                |        |        |       |      |
|----------------------------------------------------------------------------------|------|-------------|------|-----------------|----------------|--------|--------|-------|------|
| REV #                                                                            | CH # | DESCRIPTION | DATE | DATE OF ISSUE:  | DESIGNER:      | SCALE: | SHEET: | JOB # | REV: |
|                                                                                  |      |             |      | 01.07.2016      | AJ/MV          | 1:100  |        |       |      |
|                                                                                  |      |             |      | AMENDMENT DATE: | TECHNICIAN:    |        |        |       |      |
|                                                                                  |      |             |      | 22.09.2016      | TV             |        |        | 4692  |      |
|                                                                                  |      |             |      |                 | VERSION: CODE: |        |        |       |      |
|                                                                                  |      |             |      |                 | V4 A           |        |        |       |      |

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

**NOTE:**

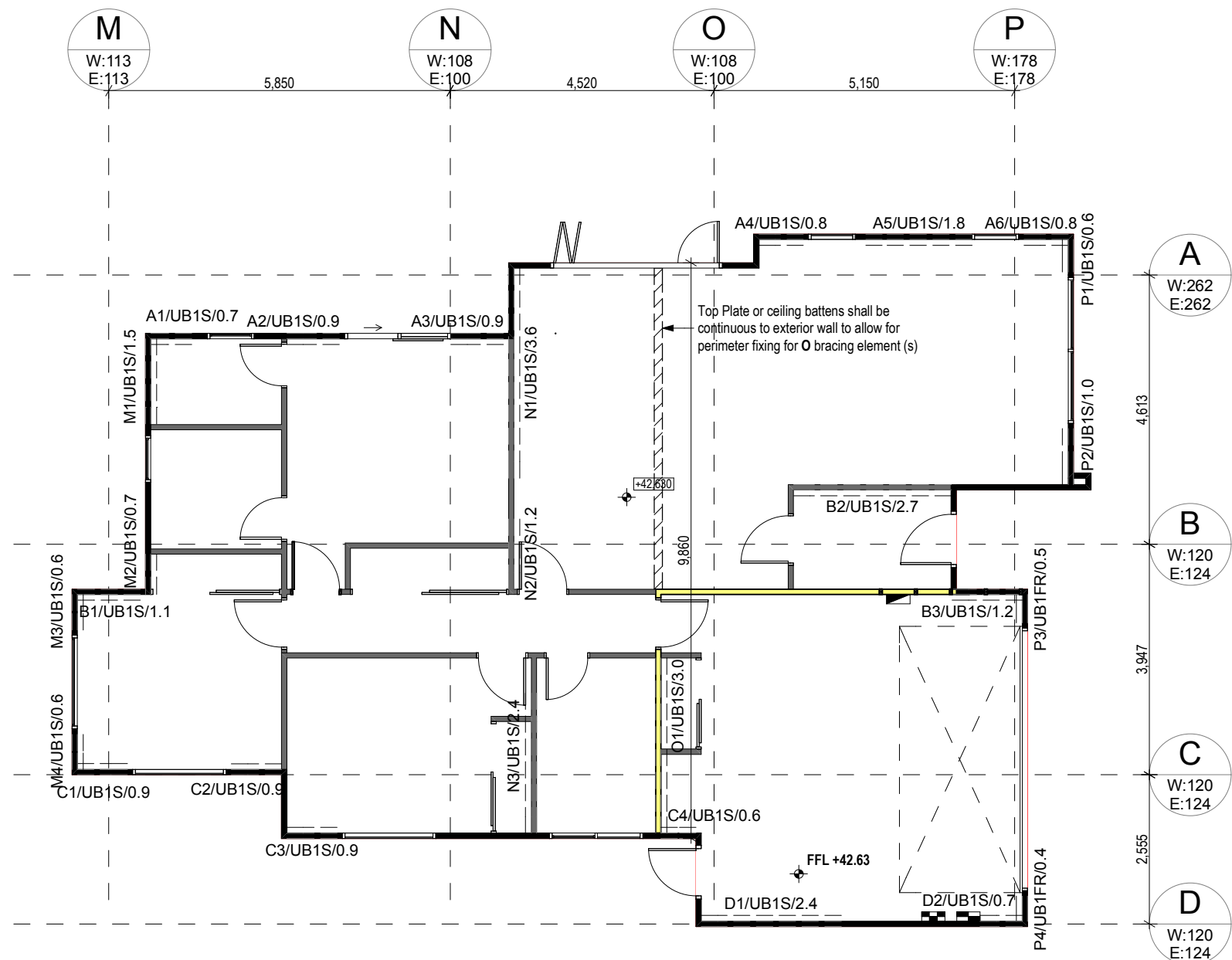
Where exterior ply bracing elements are used & not continued the entire length of the wall, allow to pack out the rest of the cavity battens to achieve an even straight-through cavity for the selected cladding.

**UB1S** - 0.4m min. length. Any 10mm or 13mm Sheetrock fix to one side only.  
**UB2S** - 0.4m min. length. Any 10mm or 13mm Sheetrock fix to both sides  
**UB1FR** - 0.4m min. length. 10mm Fiberock on one side with hold downs  
**UB2FR** - 0.4m min. length. 10mm Fiberock on both side with hold downs  
**UBFRP** - 10mm Fiberock on one side 7mm DD structural plywood on the other side with hold downs



(as per GIB EzyBrace System)

Openings are allowed within the middle third of a wall bracing element's length & height. Neither opening dimension shall be more than one third of the element height. Wall linings are fixed to opening trimmers at 150mm crs. Small openings (e.g. power outlets) of 90 x 90mm or less may be placed no closer than 90mm to the edge of the braced element.



| Location of Storey                  | Single     | Floor Load            | 2kPa           | Bracing Line |         |         | Bracing Elements Provided |          |        |       |        | Wind   |          | Earthquake |          | Bracing Line    |         |         | Bracing Elements Provided |           |        |       |        | Wind   |          | Earthquake |          |   |       |   |       |
|-------------------------------------|------------|-----------------------|----------------|--------------|---------|---------|---------------------------|----------|--------|-------|--------|--------|----------|------------|----------|-----------------|---------|---------|---------------------------|-----------|--------|-------|--------|--------|----------|------------|----------|---|-------|---|-------|
| Floor Height to Apex                | 5.0 m      | Roof Weight           | Light          | Line         | Min BUs | Min BUs | Brace                     | Brace    | Brace  | Brace | Brace  | Rating | BUs      | Rating     | BUs      | Line            | Min BUs | Min BUs | Brace                     | Brace     | Brace  | Brace | Brace  | Rating | BUs      | Rating     | BUs      |   |       |   |       |
| Roof Height Above Eaves             | 2.0 m      | Cladding Weights:     |                | Label        | W       | E       | No.                       | Type     | Length | Angle | Height | BUs/m  | Achieved | BUs/m      | Achieved | Label           | W       | E       | No.                       | Type      | Length | Angle | Height | BUs/m  | Achieved | BUs/m      | Achieved |   |       |   |       |
| Roof Pitch                          | 0 - 25 °   | - Subfloor            | Concrete Floor | A            | 262     | 262     | A1                        | UB1S-0.4 | 0.7    | 0.0   | 2.4    | 55     | 38.5     | 50         | 35.0     | M               | 113     | 113     | M1                        | UB1S-0.4  | 1.5    | 0.0   | 2.4    | 55     | 80.2     | 50         | 72.9     |   |       |   |       |
| Roof Style                          | Gable      | - Wall Cladding       | Medium         |              |         |         | A2                        | UB1S-0.4 | 0.9    | 0.0   | 2.4    | 55     | 49.5     | 50         | 45.0     |                 |         |         | M2                        | UB1S-0.4  | 0.7    | 0.0   | 2.4    | 55     | 38.0     | 50         | 34.5     |   |       |   |       |
| Building Length (BL)                | 17.3 m     |                       |                |              |         |         | A3                        | UB1S-0.4 | 0.9    | 0.0   | 2.4    | 55     | 49.5     | 50         | 45.0     |                 |         |         | M3                        | UB1S-0.4  | 0.6    | 0.0   | 2.4    | 55     | 33.5     | 50         | 30.5     |   |       |   |       |
| Building Width (BW)                 | 13.0 m     | Room in Roof Space    | No             |              |         |         | A4                        | UB1S-0.4 | 0.8    | 0.0   | 2.4    | 55     | 41.8     | 50         | 38.0     |                 |         |         | M4                        | UB1S-0.4  | 0.6    | 0.0   | 2.4    | 55     | 33.0     | 50         | 30.0     |   |       |   |       |
| Wind Zone                           | High       | Soil Class            | E - Very Soft  |              |         |         | A5                        | UB1S-0.4 | 1.8    | 0.0   | 2.4    | 55     | 100.1    | 50         | 91.0     | N               | 108     | 100     | N1                        | UB1S-0.4  | 3.6    | 0.0   | 2.4    | 55     | 198.0    | 50         | 180.0    |   |       |   |       |
| W along                             | 55.0 BUs/m | Gross Plan Area (GPA) | 155.3 m2       |              |         |         | A6                        | UB1S-0.4 | 0.8    | 0.0   | 2.4    | 55     | 41.8     | 50         | 38.0     |                 |         |         | N2                        | UB1S-0.4  | 1.2    | 0.0   | 2.4    | 55     | 66.0     | 50         | 60.0     |   |       |   |       |
| W across                            | 50.0 BUs/m | Earthquake Zone       | 2              | B            | 120     | 124     | B1                        | UB1S-0.4 | 1.1    | 0.0   | 2.4    | 55     | 59.4     | 50         | 54.0     |                 |         |         | N3                        | UB1S-0.4  | 2.4    | 0.0   | 2.4    | 55     | 132.0    | 50         | 120.0    |   |       |   |       |
| W along x BW                        | 717.2 BUs  | EQ                    | 4.8 BUs/m2     |              |         |         | B2                        | UB1S-0.4 | 2.7    | 0.0   | 2.4    | 55     | 148.7    | 50         | 135.2    | O               | 108     | 100     | O1                        | UB1S-0.4  | 3.0    | 0.0   | 2.4    | 55     | 165.0    | 50         | 150.0    |   |       |   |       |
| W across x BL                       | 863.5 BUs  | EQ x GPA              | 745.3 BUs      |              |         |         | B3                        | UB1S-0.4 | 1.2    | 0.0   | 2.4    | 55     | 66.0     | 50         | 60.0     | P               | 178     | 178     | P1                        | UB1S-0.4  | 0.6    | 0.0   | 2.4    | 55     | 30.8     | 50         | 28.0     |   |       |   |       |
| Calculations based on NZS 3604:2011 |            |                       |                | C            | 120     | 124     | C1                        | UB1S-0.4 | 0.9    | 0.0   | 2.4    | 55     | 47.3     | 50         | 43.0     |                 |         |         | P2                        | UB1S-0.4  | 1.0    | 0.0   | 2.4    | 55     | 52.8     | 50         | 48.0     |   |       |   |       |
|                                     |            |                       |                |              |         |         | C2                        | UB1S-0.4 | 0.9    | 0.0   | 2.4    | 55     | 47.3     | 50         | 43.0     |                 |         |         | P3                        | UB1FR-0.4 | 0.5    | 0.0   | 2.4    | 105    | 51.1     | 125        | 60.9     |   |       |   |       |
|                                     |            |                       |                |              |         |         | C3                        | UB1S-0.4 | 0.9    | 0.0   | 2.4    | 55     | 47.3     | 50         | 43.0     |                 |         |         | P4                        | UB1FR-0.4 | 0.4    | 0.0   | 2.4    | 105    | 45.5     | 125        | 54.1     |   |       |   |       |
|                                     |            |                       |                |              |         |         | C4                        | UB1S-0.4 | 0.6    | 0.0   | 2.4    | 55     | 33.0     | 50         | 30.0     |                 |         |         |                           |           |        |       |        |        |          |            |          |   |       |   |       |
|                                     |            |                       |                | D            | 120     | 124     | D1                        | UB1S-0.4 | 2.4    | 0.0   | 2.4    | 55     | 132.0    | 50         | 120.0    |                 |         |         |                           |           |        |       |        |        |          |            |          |   |       |   |       |
|                                     |            |                       |                |              |         |         | D2                        | UB1S-0.4 | 0.7    | 0.0   | 2.4    | 55     | 39.7     | 50         | 36.1     |                 |         |         |                           |           |        |       |        |        |          |            |          |   |       |   |       |
| Totals Achieved                     |            |                       |                |              |         |         |                           |          |        |       |        | W      | 941.9    | E          | 856.3    | Totals Achieved |         |         |                           |           |        |       |        |        |          |            |          | W | 925.9 | E | 868.9 |
| Totals Required                     |            |                       |                |              |         |         |                           |          |        |       |        | W      | 717.2    | E          | 745.3    | Totals Required |         |         |                           |           |        |       |        |        |          |            |          | W | 863.5 | E | 745.3 |

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|                                                                                                                                                                                                                                                                       | REV #                                                | CH #                                             | DESCRIPTION                                                                                        | DATE                                                                                                                                                                                                                                                                                                                                                                                      | DATE OF ISSUE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DESIGNER: | SCALE: | SHEET:      |              |                |           |        |        |  |  |  |  |            |       |       |              |  |  |  |  |  |             |  |  |  |  |  |                 |    |       |  |  |  |  |  |            |             |         |      |  |  |  |  |  |  |      |  |
|                                                                                                                                                                                                                                                                       |                                                      |                                                  |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           | 01.07.2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | AJM/V     | 1:100  |             | <b>A2.04</b> |                |           |        |        |  |  |  |  |            |       |       |              |  |  |  |  |  |             |  |  |  |  |  |                 |    |       |  |  |  |  |  |            |             |         |      |  |  |  |  |  |  |      |  |
|                                                                                                                                                                                                                                                                       |                                                      |                                                  |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           | TECHNICIAN:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |        |             |              |                |           |        |        |  |  |  |  |            |       |       |              |  |  |  |  |  |             |  |  |  |  |  |                 |    |       |  |  |  |  |  |            |             |         |      |  |  |  |  |  |  |      |  |
|                                                                                                                                                                                                                                                                       |                                                      |                                                  |                                                                                                    | AMENDMENT DATE:                                                                                                                                                                                                                                                                                                                                                                           | IV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | JOB #     |        |             |              |                |           |        |        |  |  |  |  |            |       |       |              |  |  |  |  |  |             |  |  |  |  |  |                 |    |       |  |  |  |  |  |            |             |         |      |  |  |  |  |  |  |      |  |
|                                                                                                                                                                                                                                                                       |                                                      |                                                  |                                                                                                    | 22.09.2016                                                                                                                                                                                                                                                                                                                                                                                | VERSION: V4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CODE: A   | REV:   |             |              |                |           |        |        |  |  |  |  |            |       |       |              |  |  |  |  |  |             |  |  |  |  |  |                 |    |       |  |  |  |  |  |            |             |         |      |  |  |  |  |  |  |      |  |
|                                                                                                                                                                                                                                                                       |                                                      |                                                  |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4692      |        |             |              |                |           |        |        |  |  |  |  |            |       |       |              |  |  |  |  |  |             |  |  |  |  |  |                 |    |       |  |  |  |  |  |            |             |         |      |  |  |  |  |  |  |      |  |

ELECTRICAL NOTES

- Allow for single switched powerpoint for standard appliances: Fridge, Dishwasher, Waste Disposal, Rangehood, Hob, Oven, Refer to kitchen design for layout and positions of kitchen area sockets etc. All power points are indicative only and must be positioned and confirmed on site by architect and/or owner.
- All electrical installations to be in accordance with NZECP 51:2001
- Mesh in floor slab must be earthed, earth with 16mm REO rod brought up into garage wall below meterbox and wired to the mesh. At prewire, connect a clamp and piece of wire to rod and earth it to the meterbox.

Where downlights are to be installed, only CA 80, CA 135, IC or IC-F downlights are permitted in private or rental dwellings. (Note that IC downlights can only be used with insulation that passes the needle flame test of AS/NZS 60598 2.2 clause 11.5). Recessed downlights that are not labelled as above are not permitted to be installed into residential buildings.

Total of 20 lux of illuminance for the total wattage required per m2 of floor area as shown in NZBC G8 / AS1 Table 1.

Lighting and electrical by others, all positions and types to be selected and confirmed by client with contractor unless noted otherwise.

Mechanical ventilation in housing removing moisture shall be vented outside (includes wet areas & cooker hoods). Refer to NZBC G4/AS1 1.3.C.iiio, Mechanical Ventilation to be 150 dia 230 Cu M/H inline fan ducted to soffit. Auto extractor fans shall terminate through wall/soffit/roof with an extraction rate as set out in NZBC G4.

All smoke alarms are to comply with NZBC F7 and be manufactured to at least one of: AS 3786, ISO 12239 or BS EN 14604, Required within 3m of all sleeping areas, change in level & entry/exits as per NZS 4514 & BRANZ Bulletins No's 252 & 309

Downlights shall be CA80 check the insulation manufacturers instructions to ensure their product is safe when installed along side proposed downlights

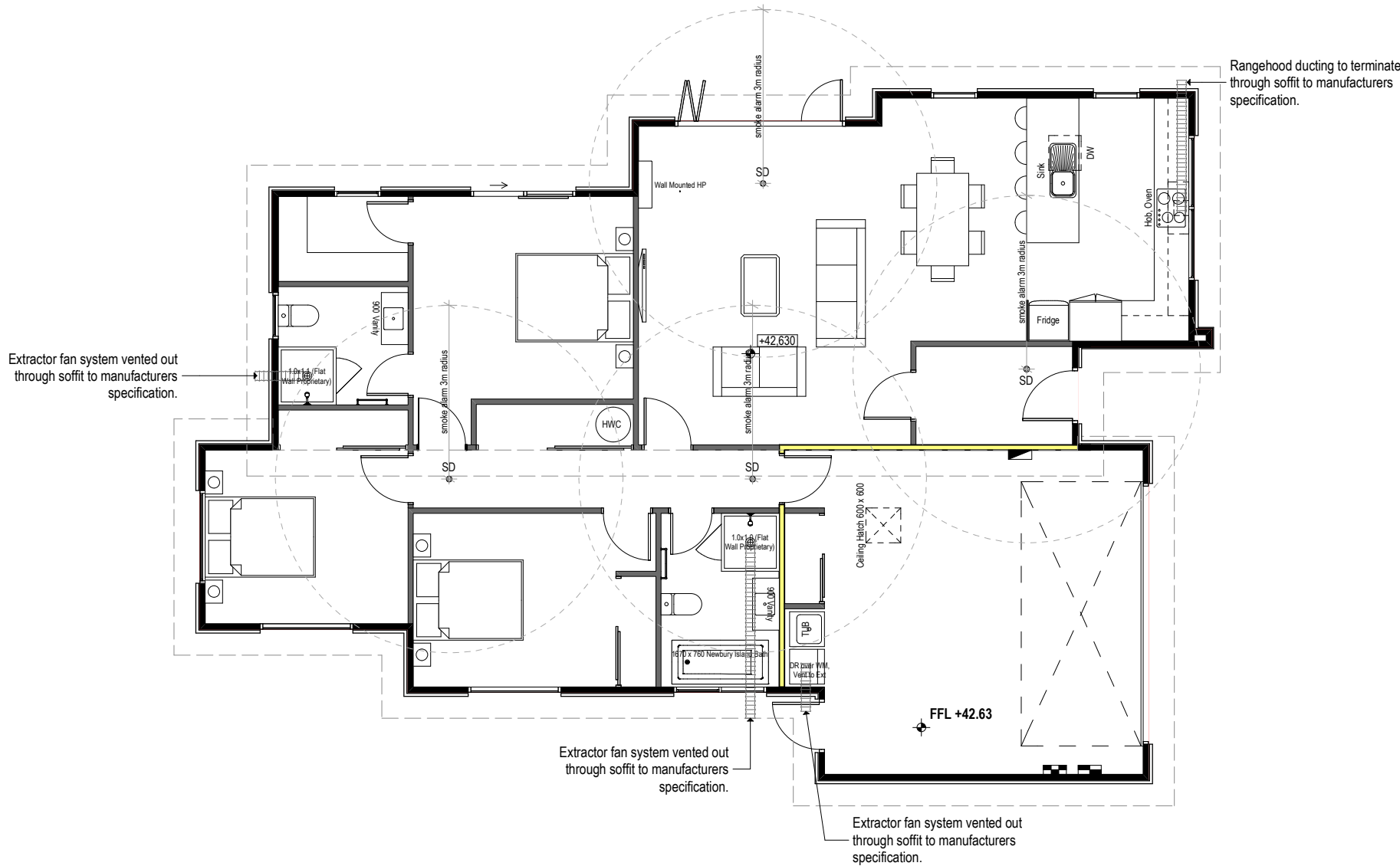
GENERAL PLACEMENT NOTES

- Powerpoints typically 300mm from nearest corner & 300mm from FFL unless otherwise noted.
- Powerpoints in wet areas to be 1,200mm high from FFL and vertically fixed unless otherwise noted.
- Powerpoint for heater to be located 300mm below finished ceiling level
- Powerpoints in kitchen to be 1000mm high from FFL
- Light switches typically 150mm from nearest corner or door frame & 1,200mm from FFL unless otherwise noted.
- HWC switch 300mm above FFL
- Laundry Power Point 1000mm above FFL
- Downlights shall be CA80 check the insulation manufacturers instructions to ensure their product is safe when installed along side proposed downlights

Note:  
House to be wired for alarm with key pad @ entrance and garage

ELECTRICAL LEGEND

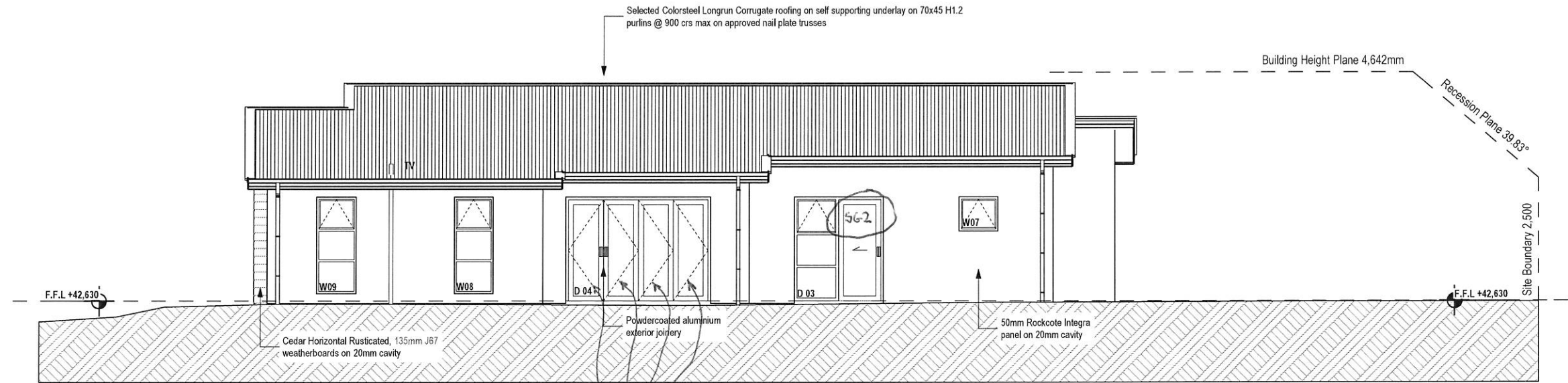
- Meterboard / Earth
- Distribution Board
- Communications Panel
- Smoke Alarm
- Hot Water Cylinder
- Extract Fan



NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS

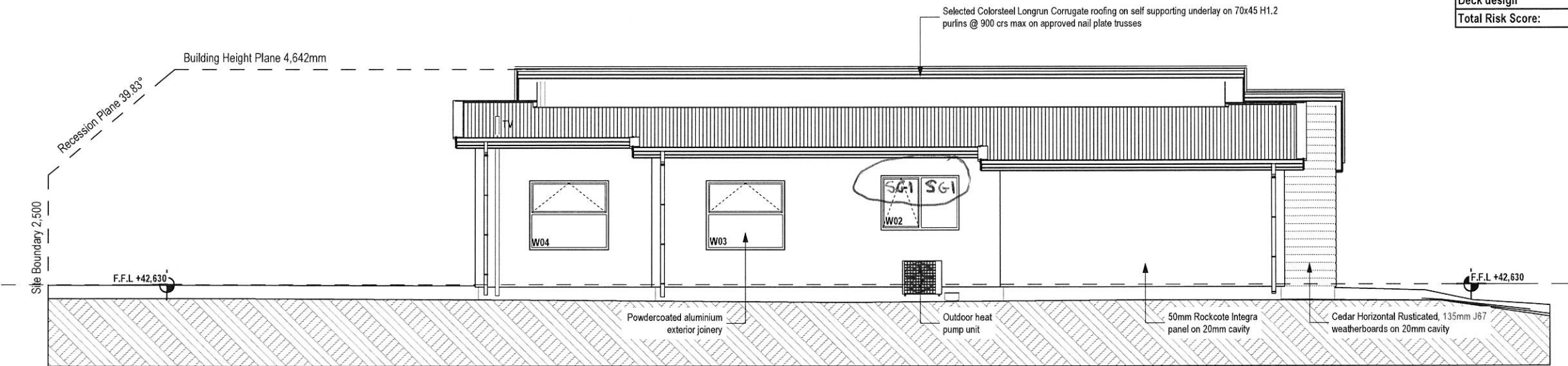
|                                                                                                                                                                                                               |                                           |                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |                    |                 |                        |      |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------------|------|-----------------|--------------------|-----------------|------------------------|------|------|
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|                                                                                                                                                                                                               |                                           |                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | 01.07.2016      | TECHNICIAN:        |                 |                        |      |      |
|                                                                                                                                                                                                               |                                           |                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | AMENDMENT DATE: | IV                 | JOB #           |                        |      |      |
|                                                                                                                                                                                                               |                                           |                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | 22.09.2016      | VERSION:<br>V4     | CODE:<br>A      |                        | 4692 | REV: |
|                                                                                                                                                                                                               |                                           |                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |                    |                 |                        |      |      |
|                                                                                                                                                                                                               |                                           |                                          |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |                    |                 |                        |      |      |

| BUILDING ENVELOPE RISK MATRIX |                |            |
|-------------------------------|----------------|------------|
| North Elevation               |                |            |
| Risk Factor                   | Risk Severity  | Risk Score |
| Wind zone (per NZS 3604)      | High risk      | 1          |
| Number of storeys             | Low risk       | 0          |
| Roof/wall intersection design | Very high risk | 5          |
| Eaves width                   | Low            | 0          |
| Envelope complexity           | Low risk       | 0          |
| Deck design                   | Low            | 0          |
| Total Risk Score:             |                | 6          |



North Elevation  
SCALE 1:100 @A3

| BUILDING ENVELOPE RISK MATRIX |                |            |
|-------------------------------|----------------|------------|
| South Elevation               |                |            |
| Risk Factor                   | Risk Severity  | Risk Score |
| Wind zone (per NZS 3604)      | High risk      | 1          |
| Number of storeys             | Low risk       | 0          |
| Roof/wall intersection design | Very high risk | 5          |
| Eaves width                   | Low            | 0          |
| Envelope complexity           | Low risk       | 0          |
| Deck design                   | Low            | 0          |
| Total Risk Score:             |                | 6          |



South Elevation  
SCALE 1:100 @A3

Note: Glazing & glazed opening to comply with NZS 4223.3:2016 Glazing in building part 3: Human impact safety requirements, NZS 4211: 2008: Specification for performance of windows & NZBC clause: F2 Hazardous materials

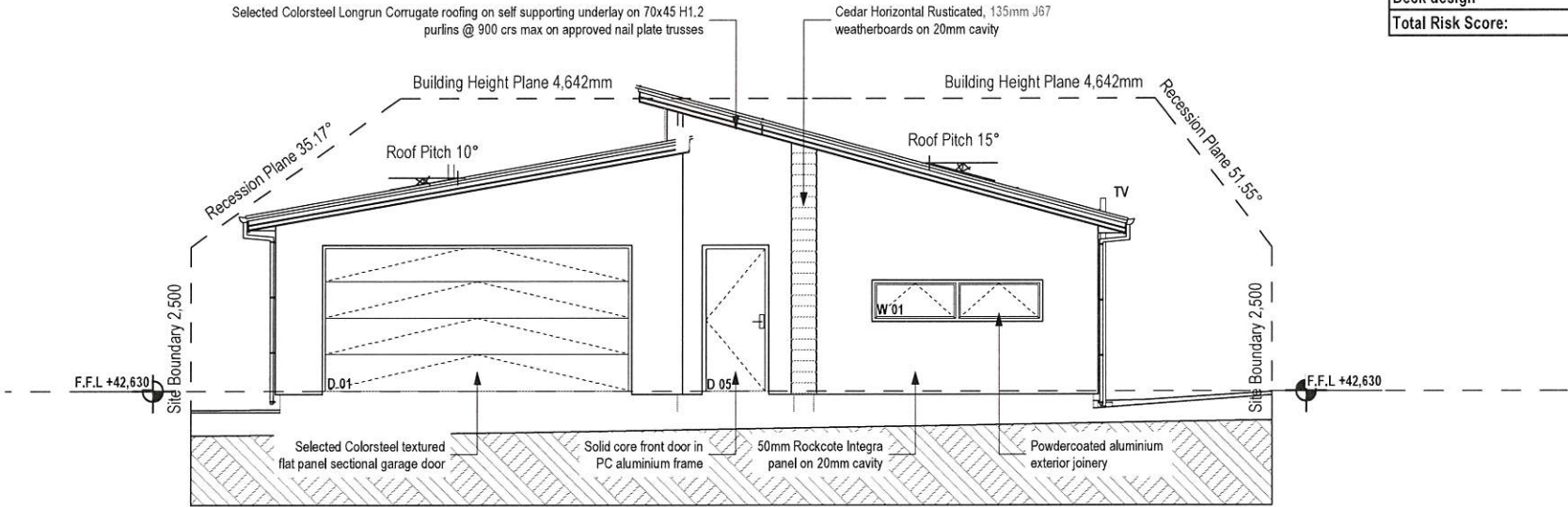
NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS

|                                                                                                                                                                                                                                                                                                  |                                           |                                     |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                |           |        |        |  |                 |                |            |       |
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|                                                                                                                                                                                                                                                                                                  |                                           |                                     |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | 01.07.2016     | AJ/MV     | 1:100  |        |  |                 |                |            |       |
|                                                                                                                                                                                                                                                                                                  |                                           |                                     |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                |           |        |        |  | AMENDMENT DATE: | TECHNICIAN:    | JOB #      | A3.01 |
|                                                                                                                                                                                                                                                                                                  |                                           |                                     |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                |           |        |        |  | 22.09.2016      | VERSION:<br>V4 | CODE:<br>A |       |
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NZBC H1 Calculations

|                            |                      |                                                   |             |     |
|----------------------------|----------------------|---------------------------------------------------|-------------|-----|
| Insulated Floor Plan Area: | 120.25               | m² over frame (including interior wall of garage) |             |     |
| Total Floor Area           | 155.27               |                                                   |             |     |
| Foundation Perimeter Ratio | 55.02                |                                                   |             |     |
| Calculated Areas           |                      | Wall Length X                                     | Stud Height |     |
| North                      | Wall area:           | 41.2                                              | 17.16       | 2.4 |
|                            | Window/Door area:    | 14.01                                             |             |     |
|                            | Wall Open Percentage | 34%                                               |             |     |
| East                       | Wall area:           | 24.8                                              | 10.35       | 2.4 |
|                            | Window/ Door area:   | 5.33                                              |             |     |
|                            | Wall Open Percentage | 21%                                               |             |     |
| South                      | Wall area:           | 41.2                                              | 17.16       | 2.4 |
|                            | Window/Door area:    | 6.24                                              |             |     |
|                            | Wall Open Percentage | 15%                                               |             |     |
| West                       | Wall area:           | 24.8                                              | 10.35       | 2.4 |
|                            | Window/Door area:    | 1.84                                              |             |     |
|                            | Wall Open Percentage | 7%                                                |             |     |

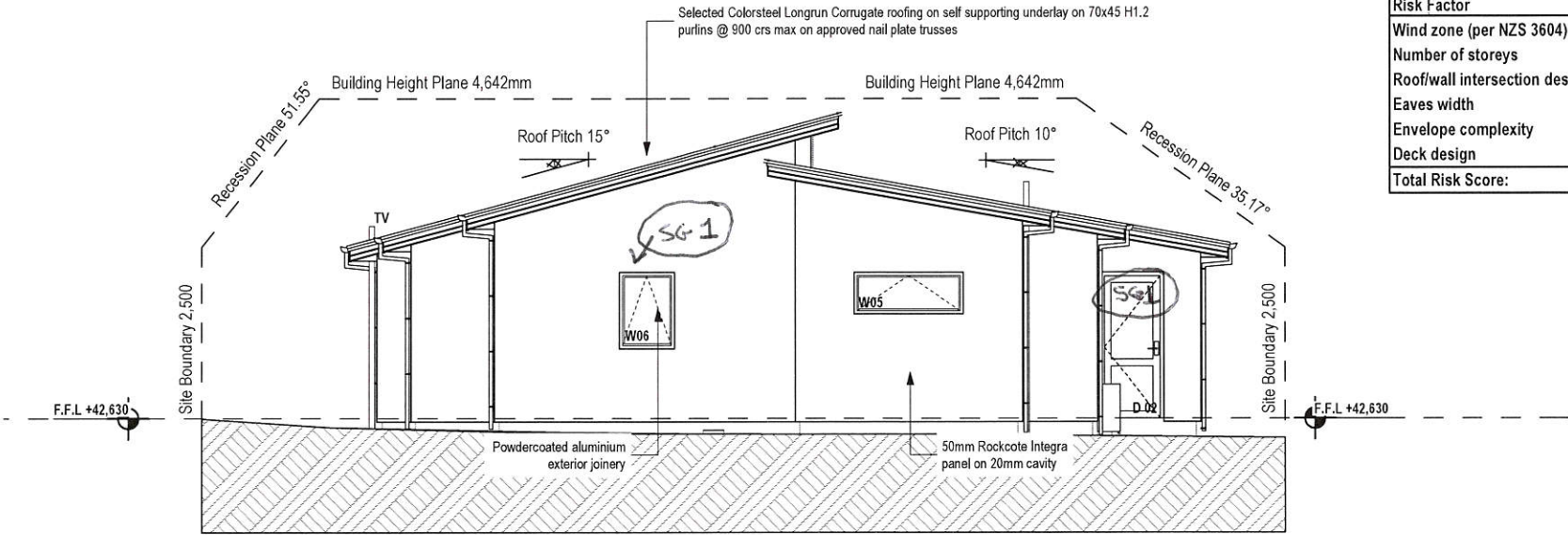
|       |                                                |                                                                    |                                                                                                   |
|-------|------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Total | ESW Wall Area                                  | 90.9                                                               |                                                                                                   |
|       | Entire Building Wall area:                     | 132.0                                                              |                                                                                                   |
|       | Entire Buiding Window/Door area:               | 27.42                                                              |                                                                                                   |
|       | ESW Window/Door Area:                          | 13.41                                                              |                                                                                                   |
|       | Percent window area:                           | 20.8%                                                              |                                                                                                   |
|       | ESW Percent window area                        | 14.8%                                                              |                                                                                                   |
|       | Is the window area of the walls less than 30%? | Yes (Schedule method is ok to use - see BRANZ checksheet attached) |                                                                                                   |
|       |                                                |                                                                    | No (Calculation method must be used - see attached reference and proposed heat loss calculations) |



East Elevation

SCALE 1:100 @A3

SG1 = 1 skin Safety Glass



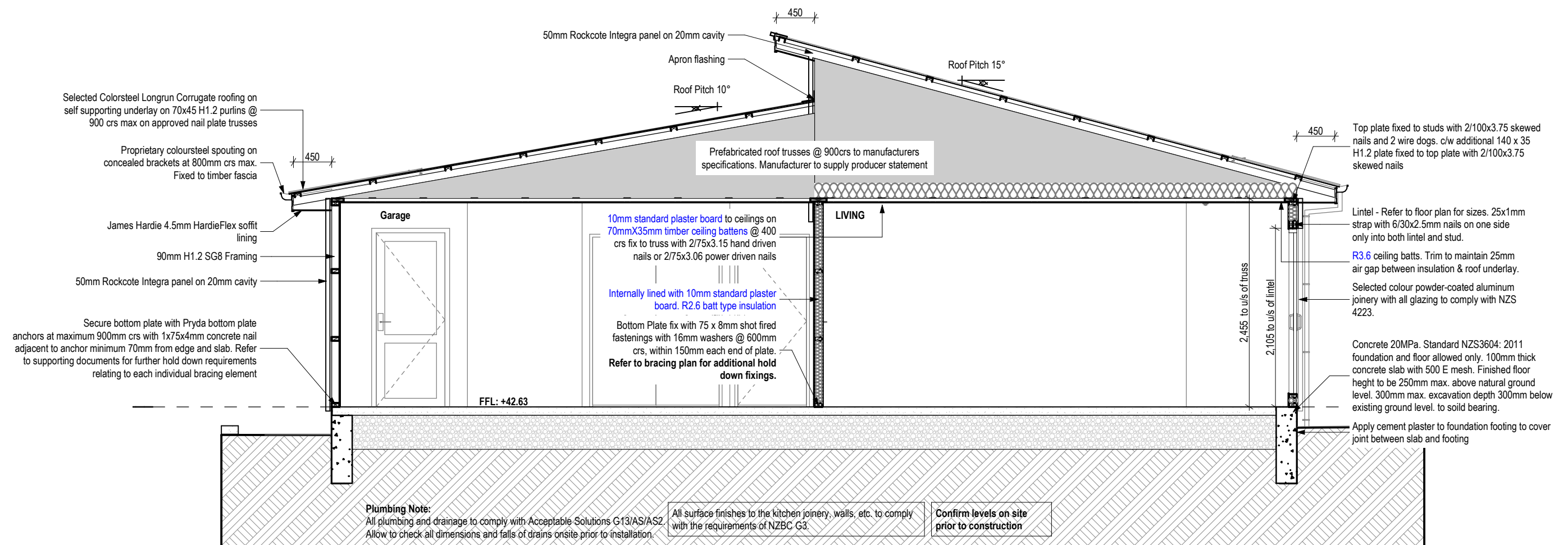
West Elevation

SCALE 1:100 @A3

| BUILDING ENVELOPE RISK MATRIX |                |            |
|-------------------------------|----------------|------------|
| East Elevation                |                |            |
| Risk Factor                   | Risk Severity  | Risk Score |
| Wind zone (per NZS 3604)      | High risk      | 1          |
| Number of storeys             | Low risk       | 0          |
| Roof/wall intersection design | Very high risk | 5          |
| Eaves width                   | Low            | 0          |
| Envelope complexity           | Low risk       | 0          |
| Deck design                   | Low            | 0          |
| Total Risk Score:             |                | 6          |

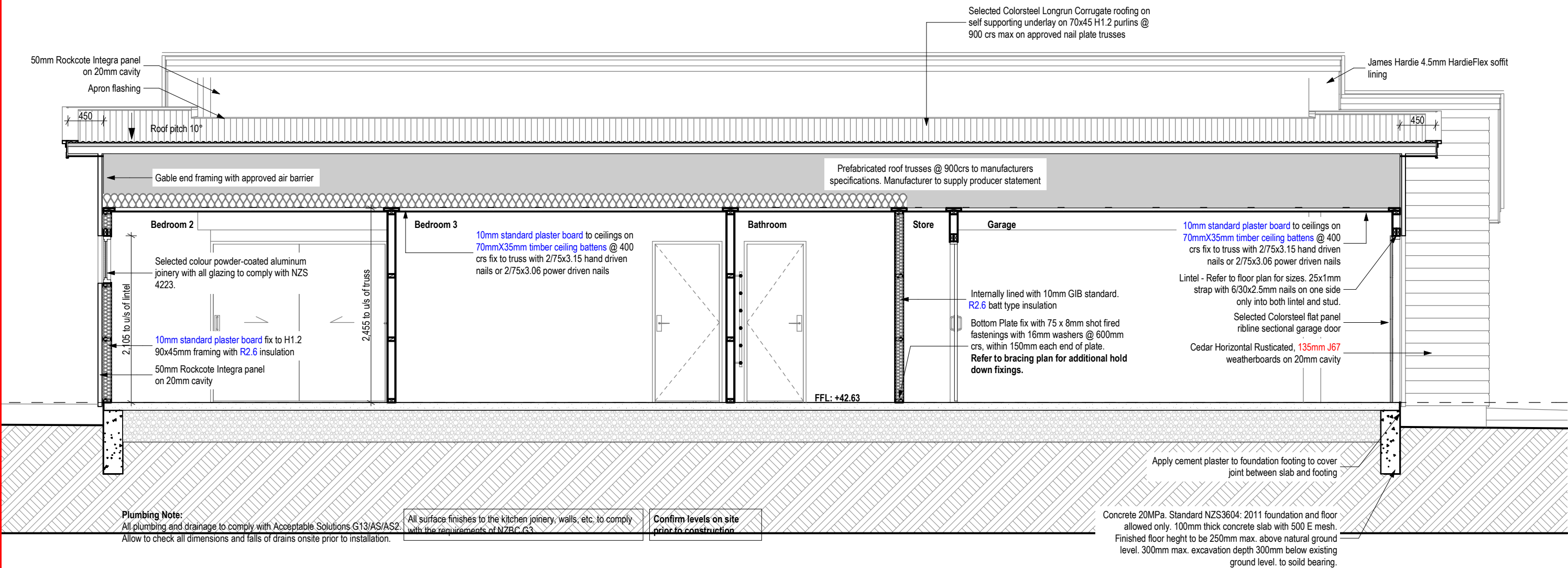
| BUILDING ENVELOPE RISK MATRIX |                |            |
|-------------------------------|----------------|------------|
| West Elevation                |                |            |
| Risk Factor                   | Risk Severity  | Risk Score |
| Wind zone (per NZS 3604)      | High risk      | 1          |
| Number of storeys             | Low risk       | 0          |
| Roof/wall intersection design | Very high risk | 5          |
| Eaves width                   | Low            | 0          |
| Envelope complexity           | Low risk       | 0          |
| Deck design                   | Low            | 0          |
| Total Risk Score:             |                | 6          |

Note: Glazing & glazed opening to comply with NZS 4223.3:2016 Glazing in building part 3: Human impact safety requirements, NZS 4211: 2008: Specification for performance of windows & NZBC clause: F2 Hazardous materials



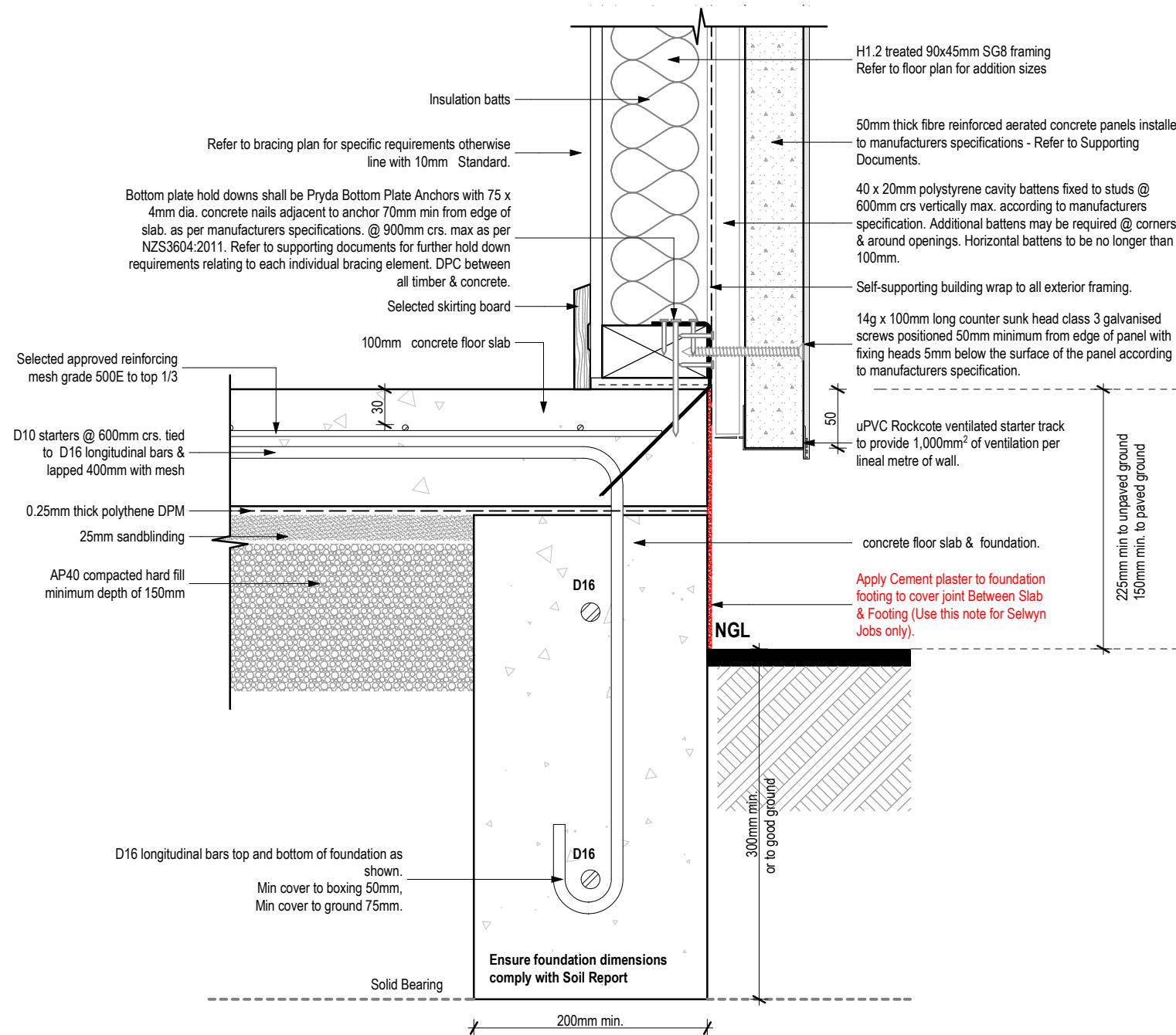
NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS

|                                                                                                                                                                                                                                                      |                                           |                                        |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |                              |        |                                    |
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|                                                                                                                                                                                                                                                      |                                           |                                        |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | 01.07.2016      | AJ/MV                        | 1:50   |                                    |
|                                                                                                                                                                                                                                                      |                                           |                                        |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | AMENDMENT DATE: | TECHNICIAN:                  | JOB #  |                                    |
|                                                                                                                                                                                                                                                      |                                           |                                        |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | 22.09.2016      | IV<br>VERSION: CODE:<br>V4 A | 4692   |                                    |



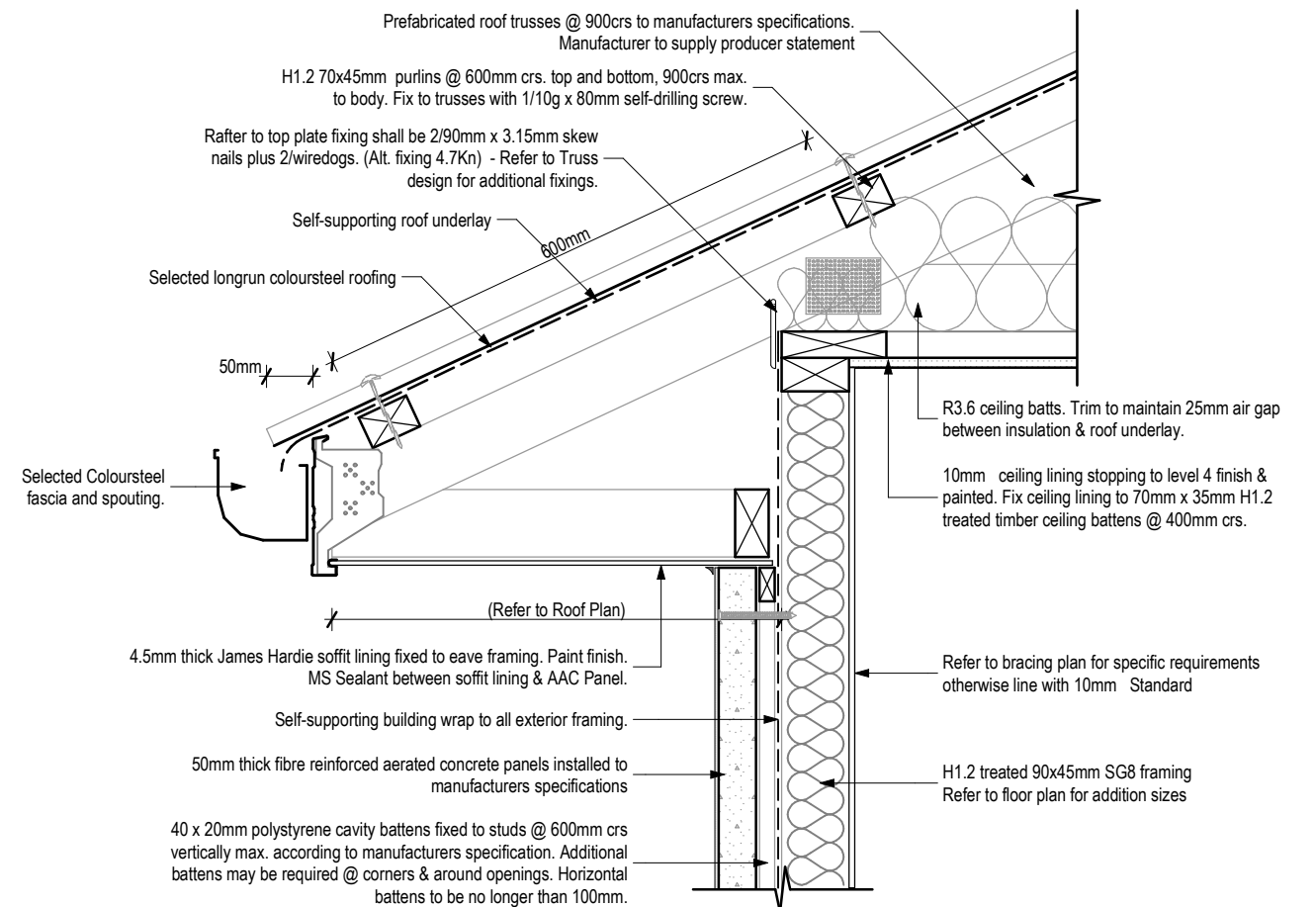
NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS

|                                                                                                                                                                    |                                           |                                               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |                              |        |                                    |
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|                                                                                                                                                                    |                                           |                                               |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | 01.07.2016      | AJ/MV                        | 1:50   |                                    |
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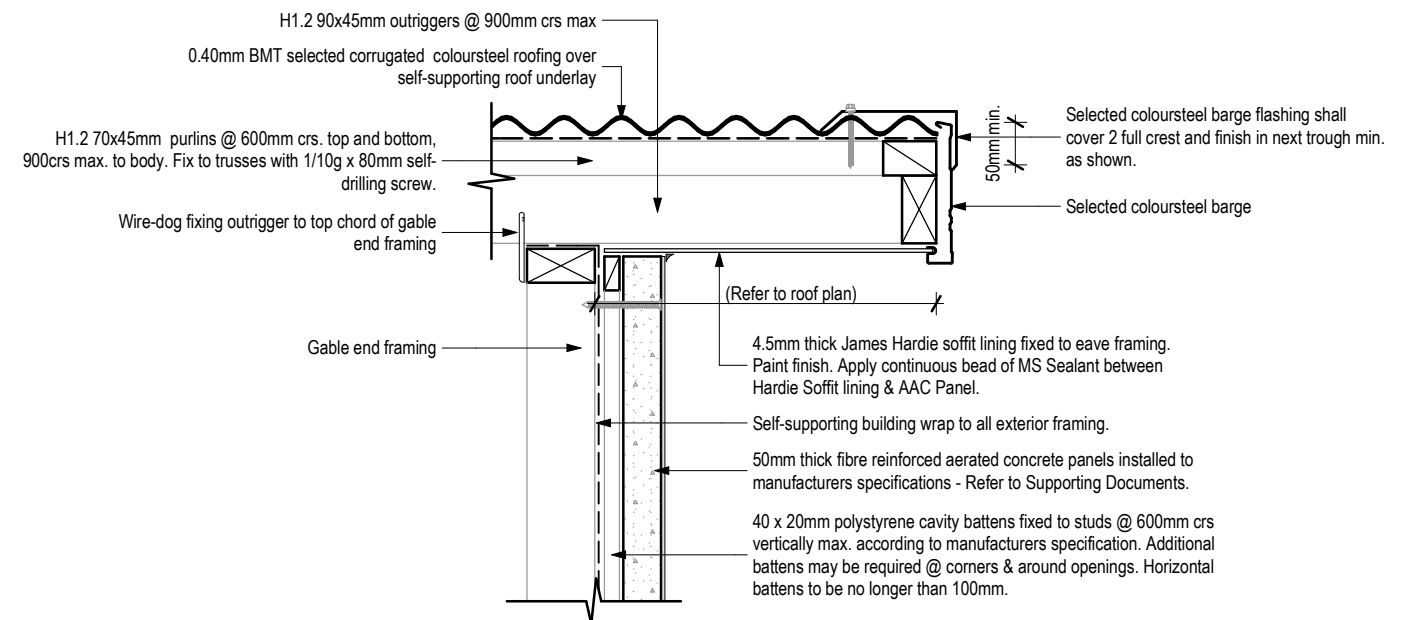
## Rockcote AAC Panel - Foundation

SCALE 1:5 @A3



## Rockcote AAC Panel - Typical Soffit

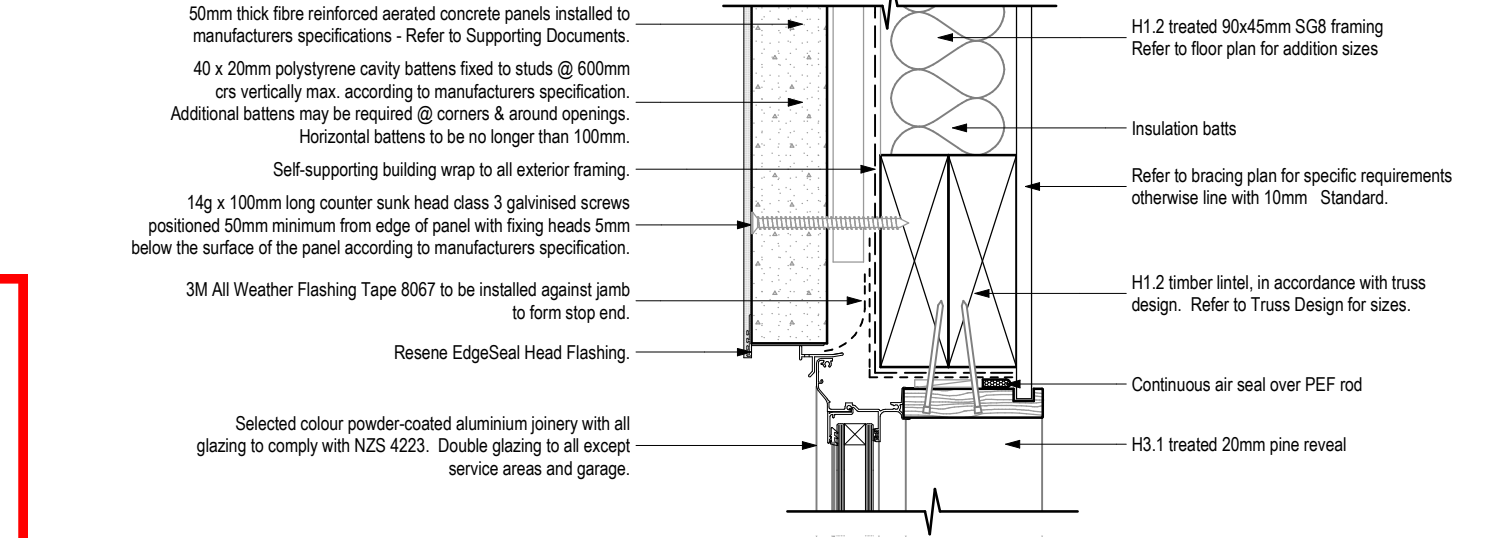
SCALE 1:10 @A3



## Rockcote AAC Panel - Barge

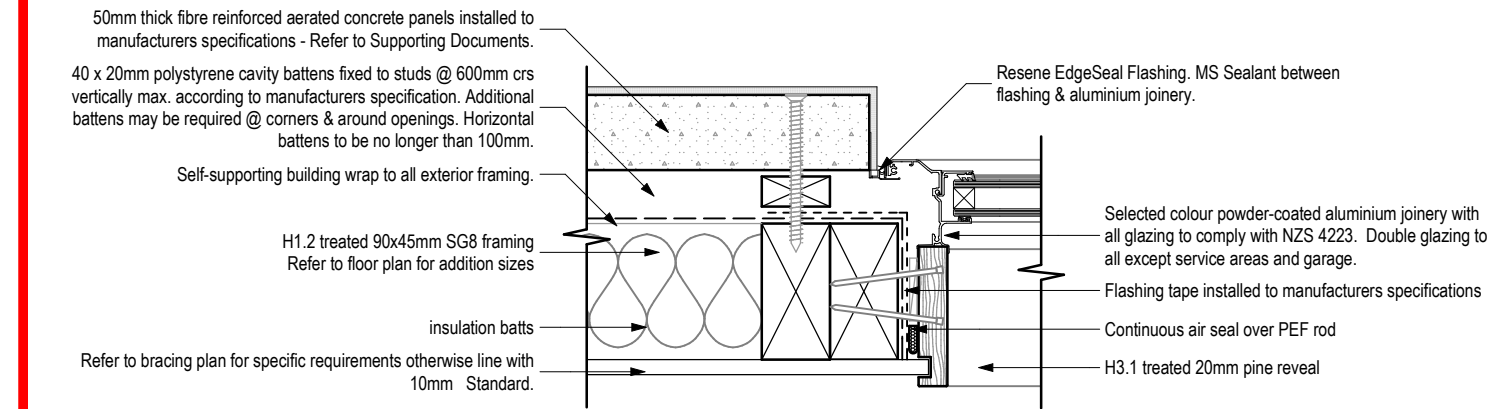
SCALE 1:10 @A3

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|                                                                                                                                                                                                                                                                                                 | REV #                                     | CH #                             | DESCRIPTION                                                                               | DATE                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                              |       |      |             |      |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |            |                                                                                                                                                                                                                                                                                                                                                                            |                              |  |                    |                            |                        |                               |  |                   |       |                |            |      |      |
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| DATE OF ISSUE:<br>01.07.2016                                                                                                                                                                                                                                                                    |                                           | DESIGNER:<br>AJ/MV               | SCALE:<br>1:100, 1:5, 1:10                                                                | SHEET:<br><b>A5.01</b>                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                              |       |      |             |      |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |            |                                                                                                                                                                                                                                                                                                                                                                            |                              |  |                    |                            |                        |                               |  |                   |       |                |            |      |      |
| AMENDMENT DATE:<br>22.09.2016                                                                                                                                                                                                                                                                   |                                           | TECHNICIAN:<br>IV                | JOB #                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                              |       |      |             |      |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |            |                                                                                                                                                                                                                                                                                                                                                                            |                              |  |                    |                            |                        |                               |  |                   |       |                |            |      |      |
| VERSION:<br>V4                                                                                                                                                                                                                                                                                  | CODE:<br>A                                | 4692                             | REV:                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                              |       |      |             |      |  |  |  |            |  |  |  |  |  |  |  |  |  |  |  |            |                                                                                                                                                                                                                                                                                                                                                                            |                              |  |                    |                            |                        |                               |  |                   |       |                |            |      |      |



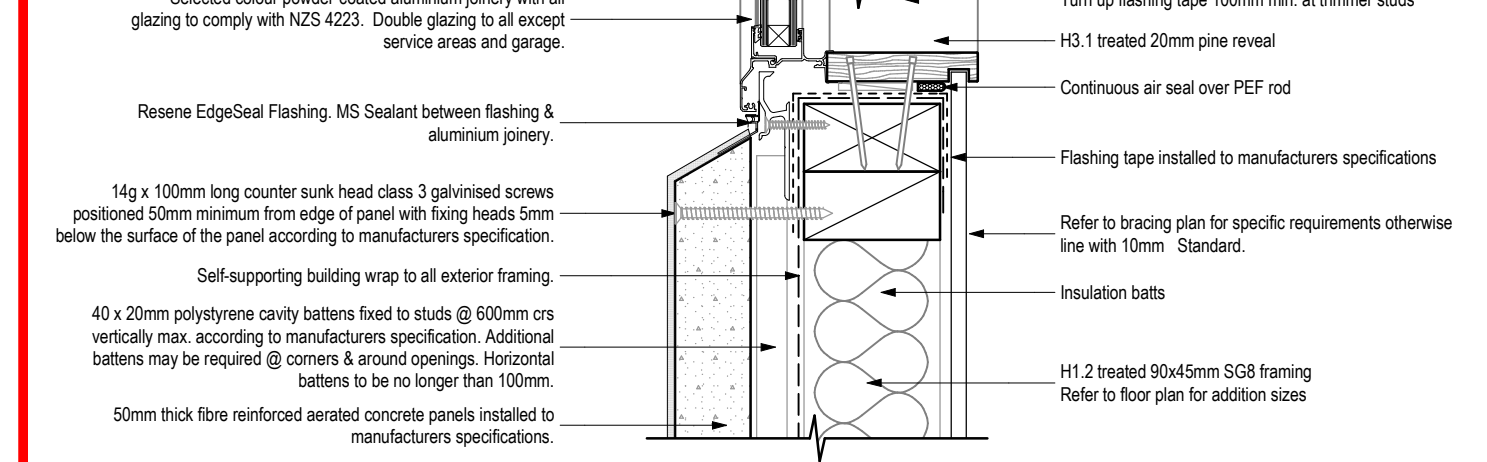
Rockcote AAC Panel - Window Head

SCALE 1:5 @A3



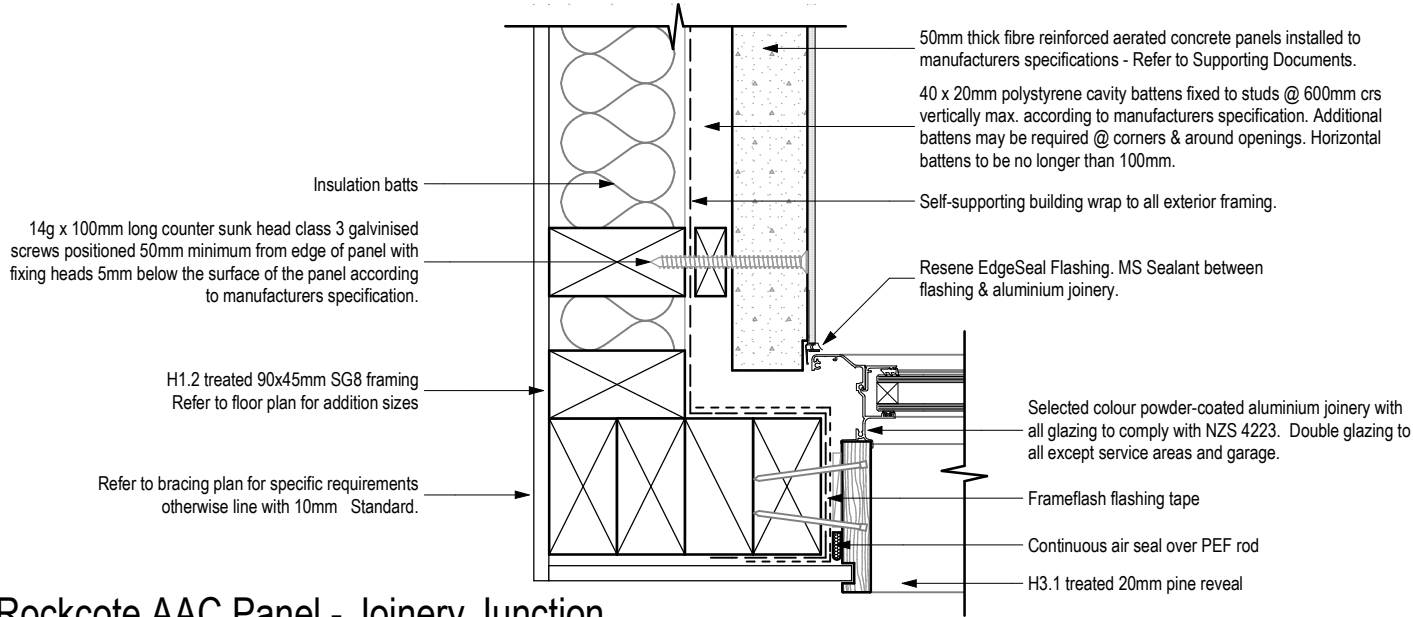
Rockcote AAC Panel - Window Jamb

SCALE 1:5 @A3



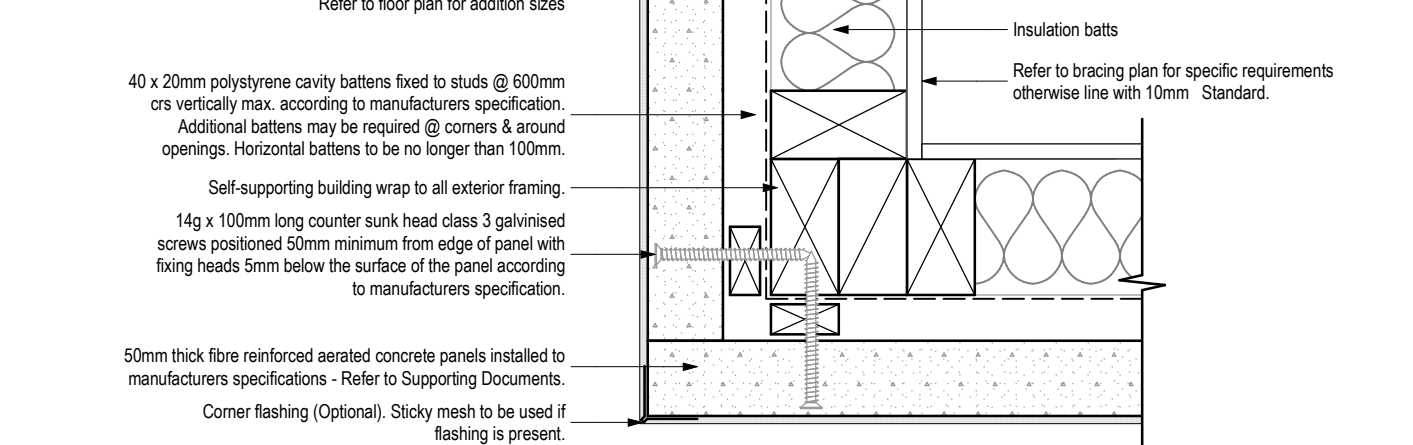
Rockcote AAC Panel - Window Sill

SCALE 1:5 @A3



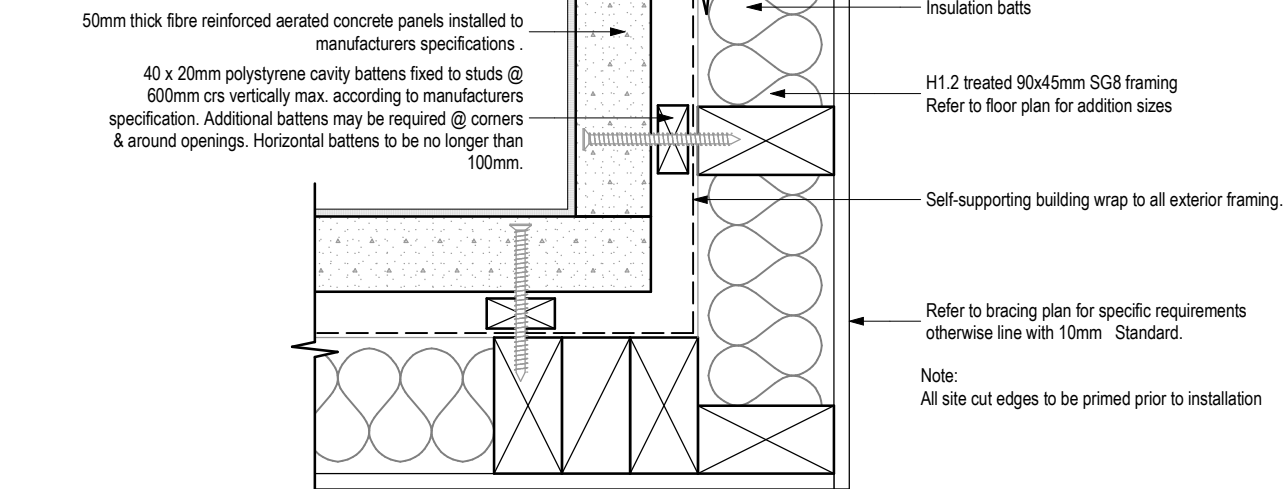
Rockcote AAC Panel - Joinery Junction

SCALE 1:5 @A3



Rockcote AAC Panel - External Corner

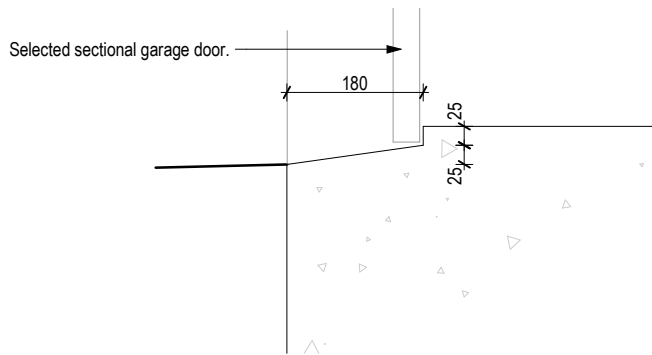
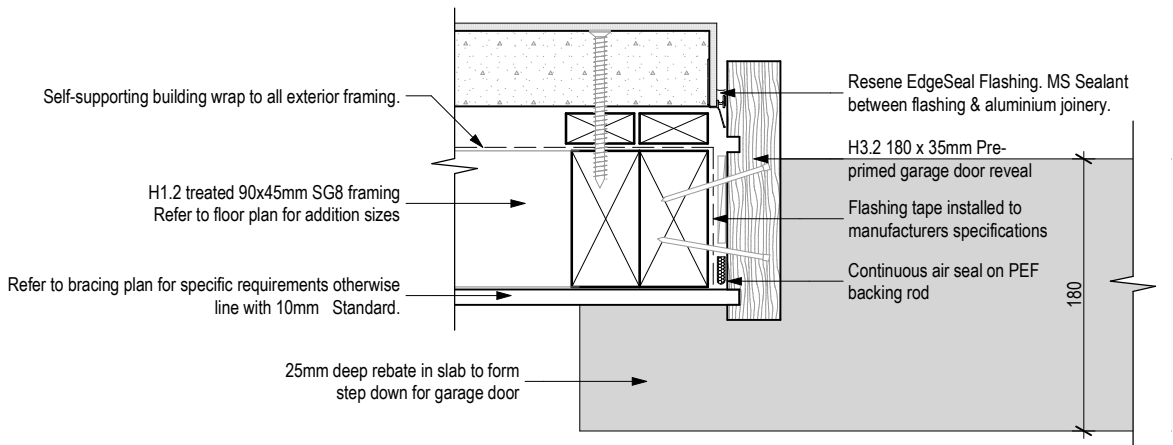
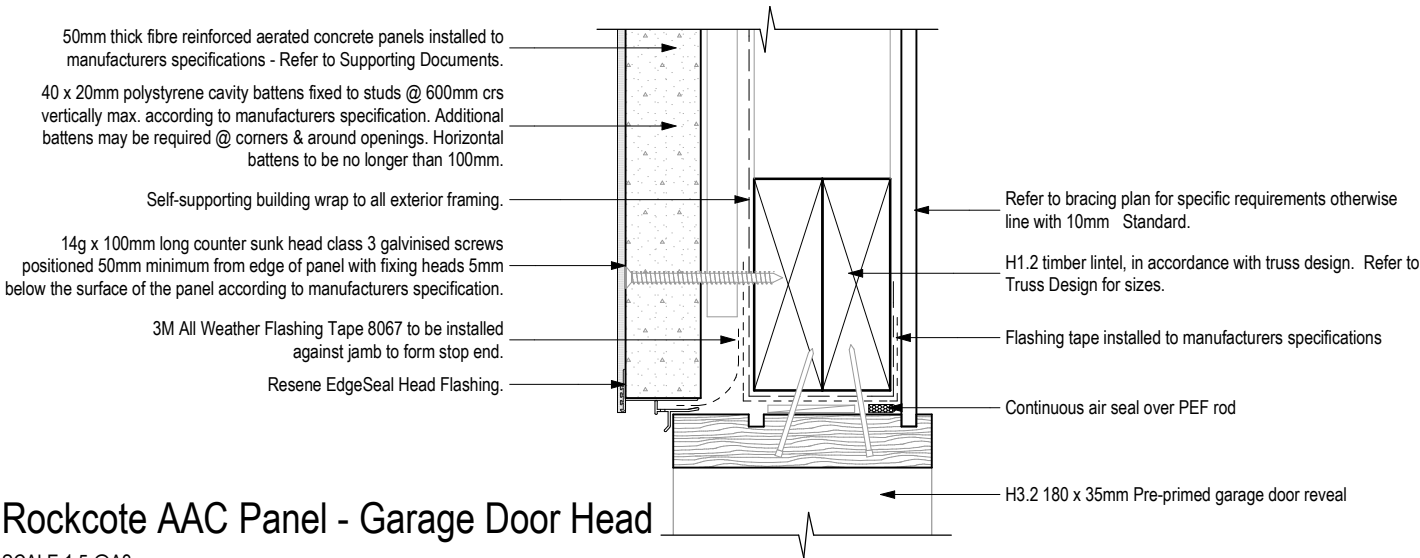
SCALE 1:5 @A3



Rockcote AAC Panel - Internal Corner

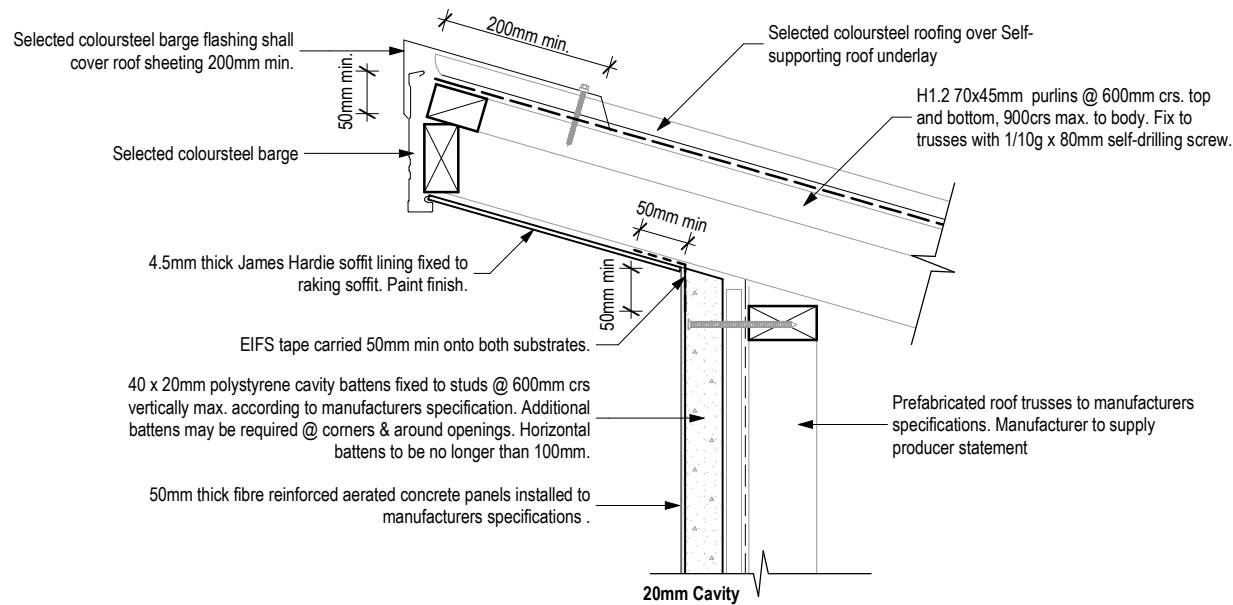
SCALE 1:5 @A3

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|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | AMENDMENT DATE:<br>22.09.2016 | TECHNICIAN:<br>IV  | JOB #         |                          |      |
|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                               | VERSION:<br>V4     | CODE:<br>A    |                          | 4692 |
|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                               |                    |               |                          |      |
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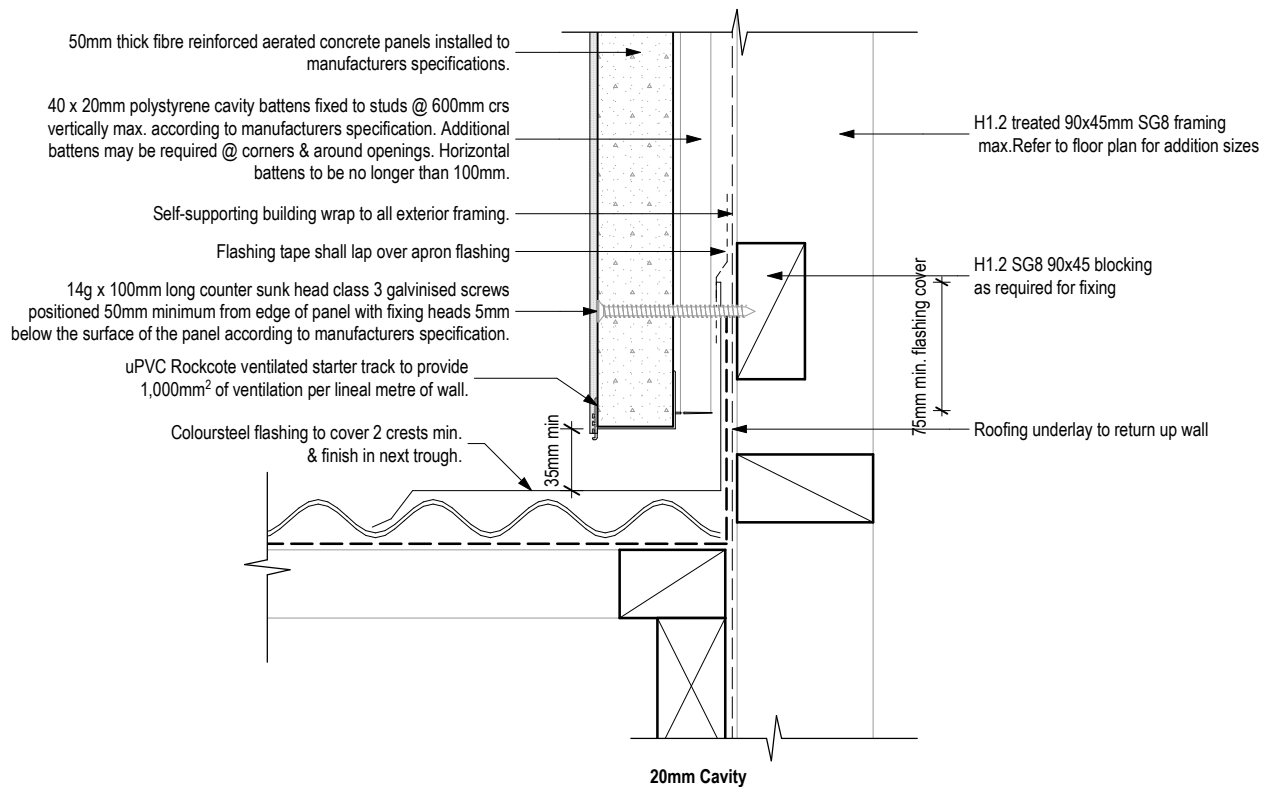


NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS

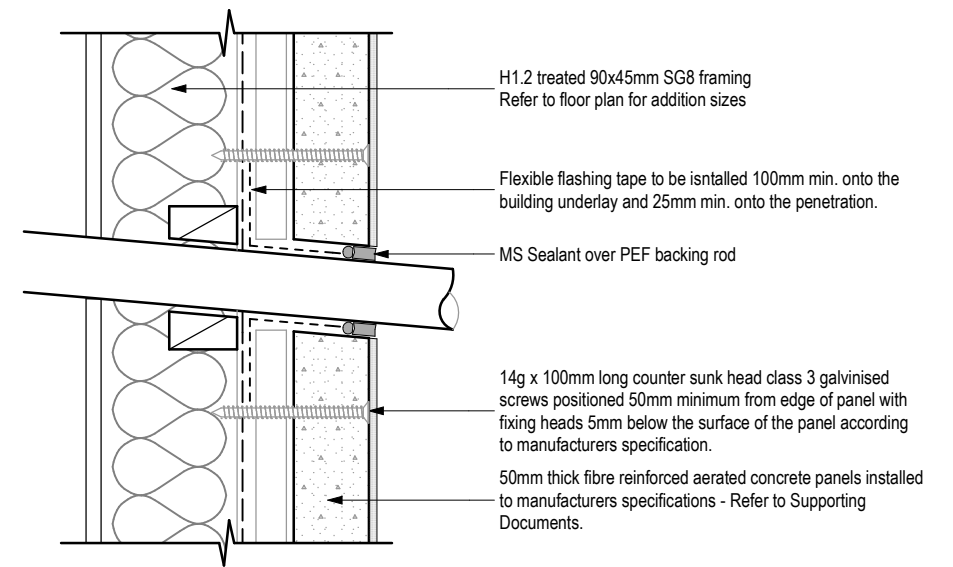
|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |                    |                     |                        |      |  |  |
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|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | 01.07.2016      | TECHNICIAN:        |                     |                        |      |  |  |
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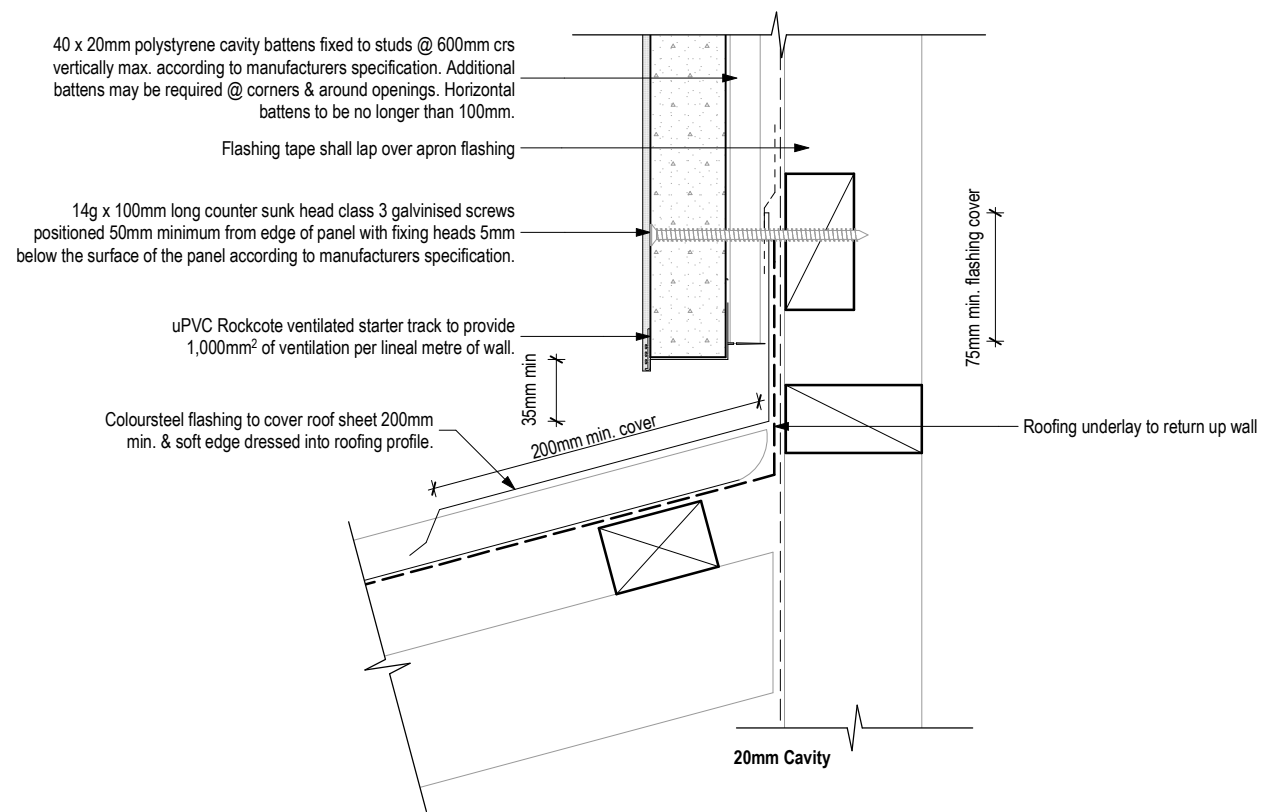
Rockcote AAC Panel - Raking Barge  
SCALE 1:10 @A3



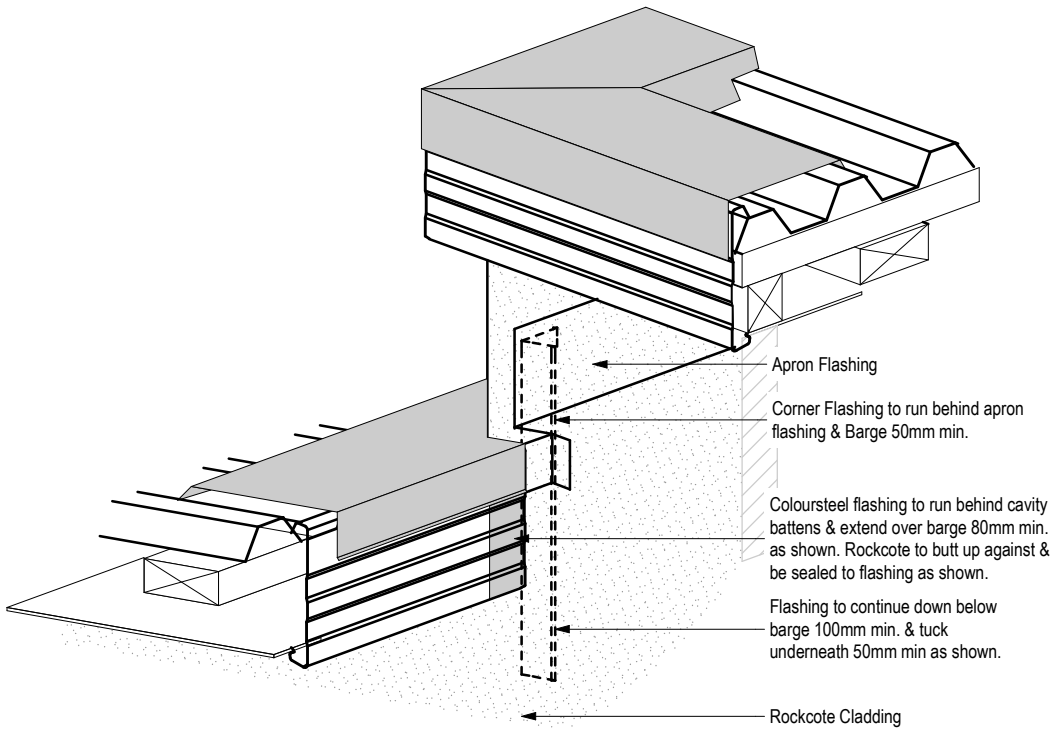
Rockcote AAC Panel - Apron Flashing (Parallel)  
SCALE 1:5 @A3



Rockcote AAC Panel - Pipe Penetration  
SCALE 1:5 @A3

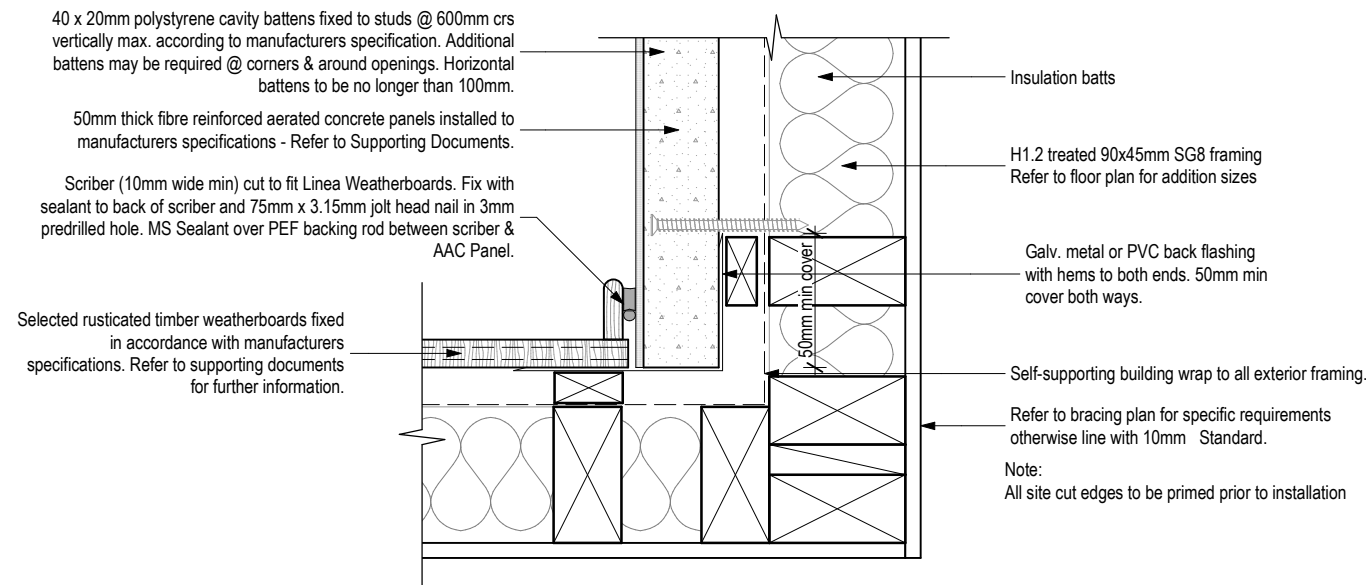


Rockcote AAC Panel - Apron Flashing  
SCALE 1:5 @A3



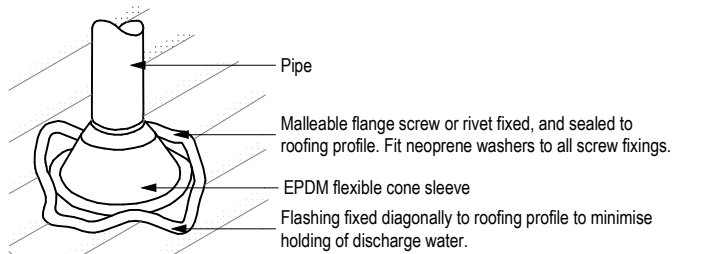
## Rockcote - Spouting to Wall Junction

SCALE 1:10 @A3



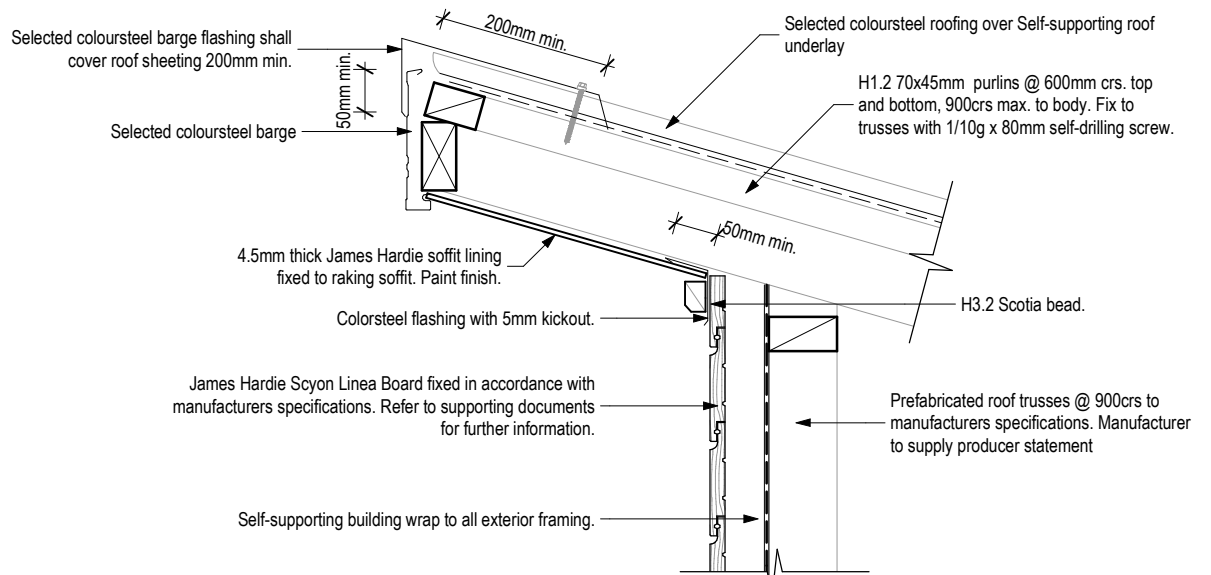
## Rockcote AAC Panel - Cladding Junction (Linea Weatherboards)

SCALE 1:5 @A3



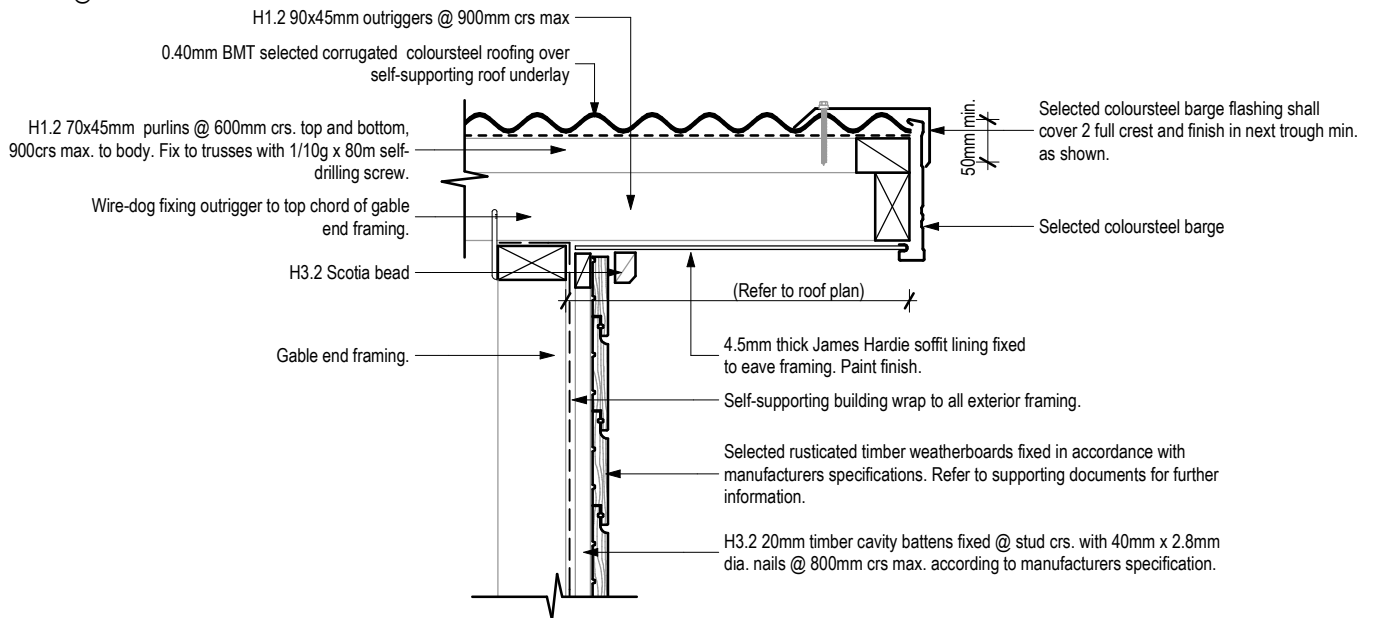
**NOTE:**  
(1) Max. roof pitch for flashing 45°, minimum pitch 10° if base of flange covers one or more complete troughs.  
(2) For pipes up to 85mm dia.

## Roof Penetrations



## Rusticated Timber Weatherboards - Raking Barge

SCALE 1:10 @A3

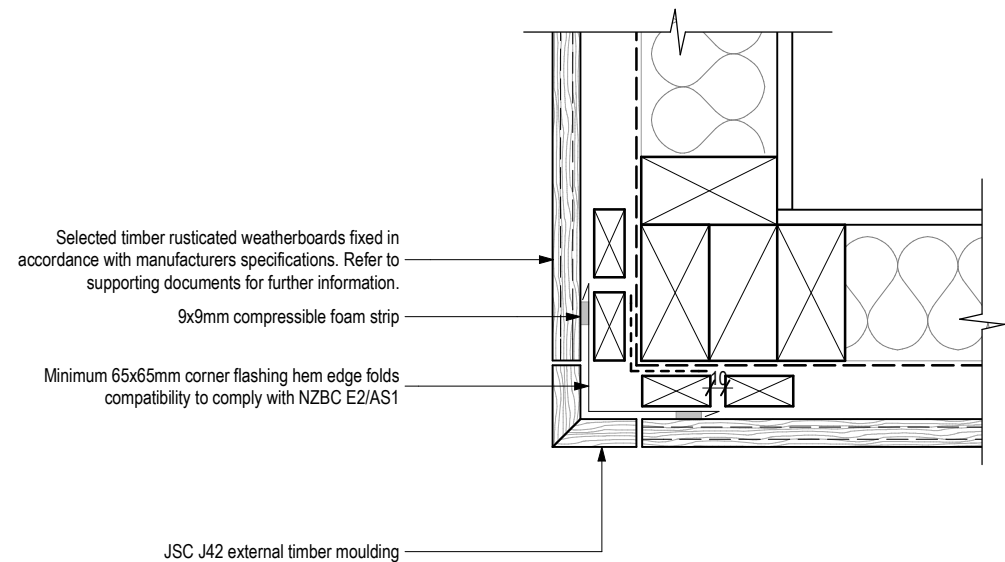
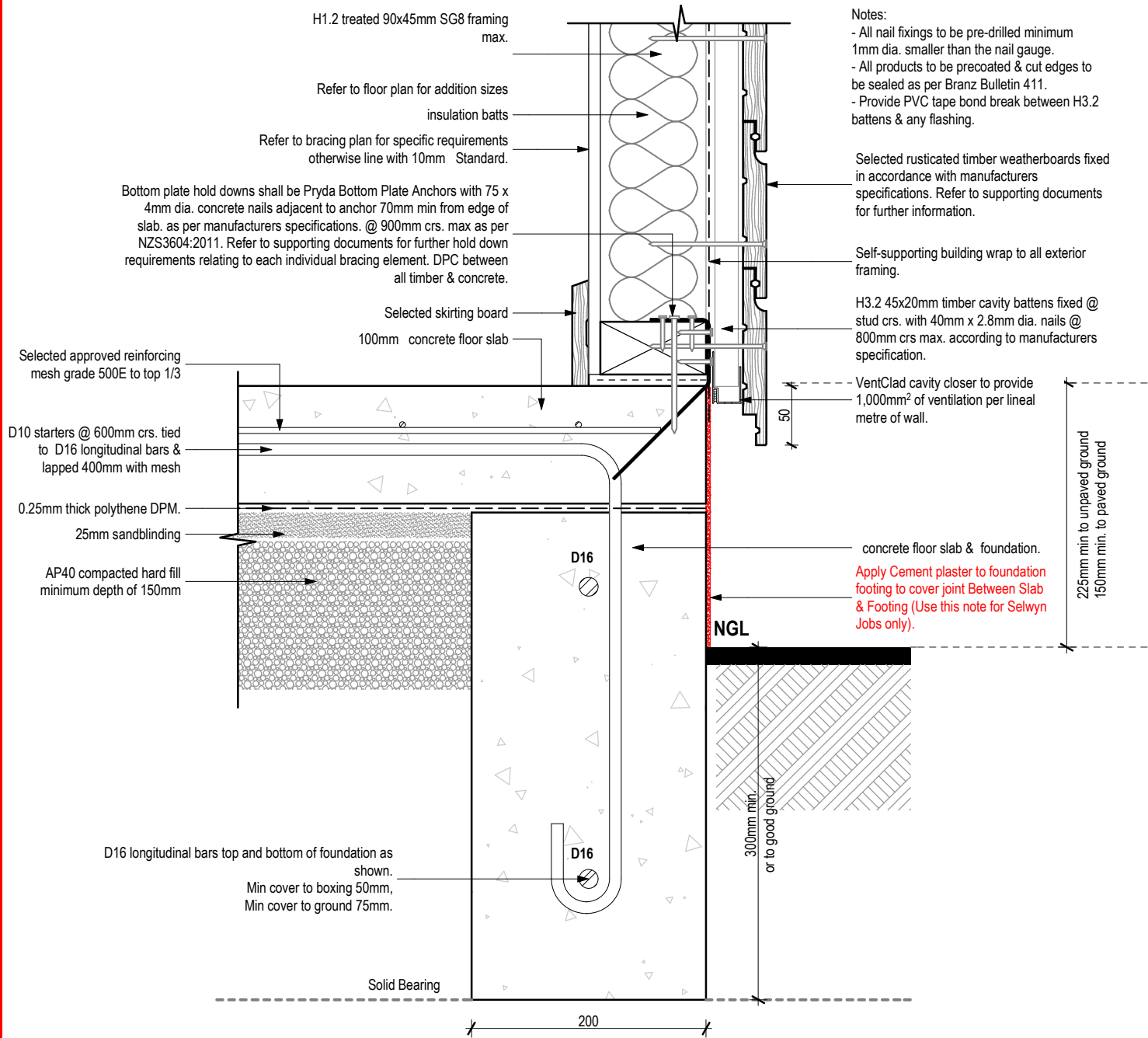


## Rusticated Timber Weatherboards - Barge

SCALE 1:10 @A3

**NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS**

|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |                    |                     |                        |      |      |  |  |
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## Rusticated Timber Weatherboards - Foundation

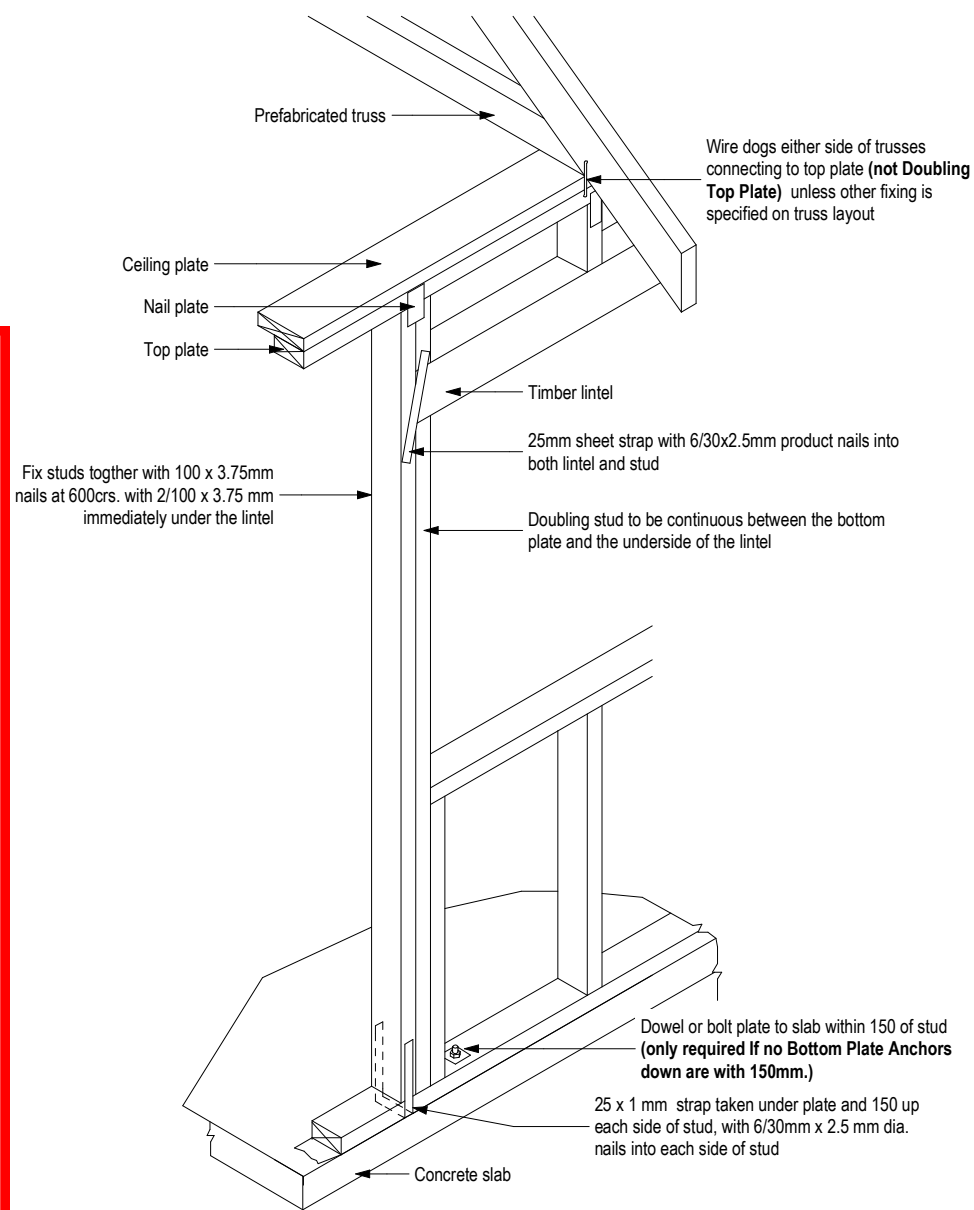
SCALE 1:5 @A3

## Rusticated Timber Weatherboard - External Junction

SCALE 1:5 @A3

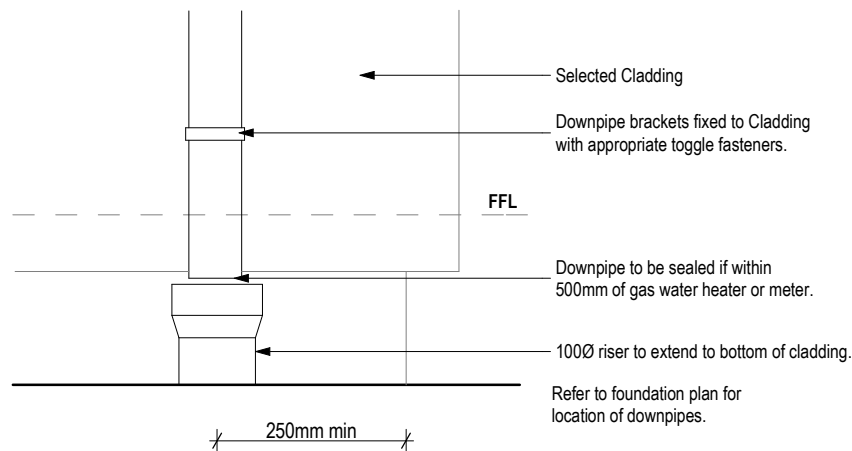
NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS

|                                                                                                                                                                                                                                                      |                                           |                                  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |             |         |                        |
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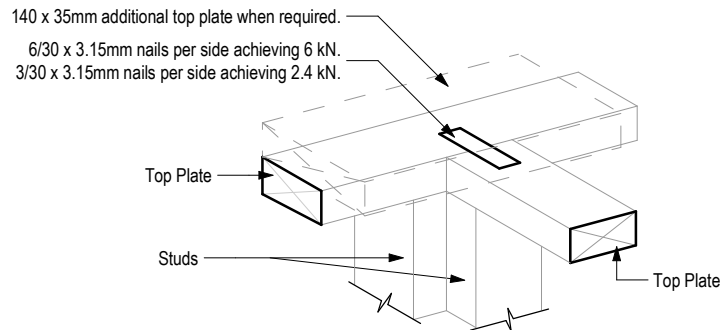
Typical Lintel Fixing

SCALE 1:20 @A3



Downpipe Corner Offset

SCALE 1:10 @A3

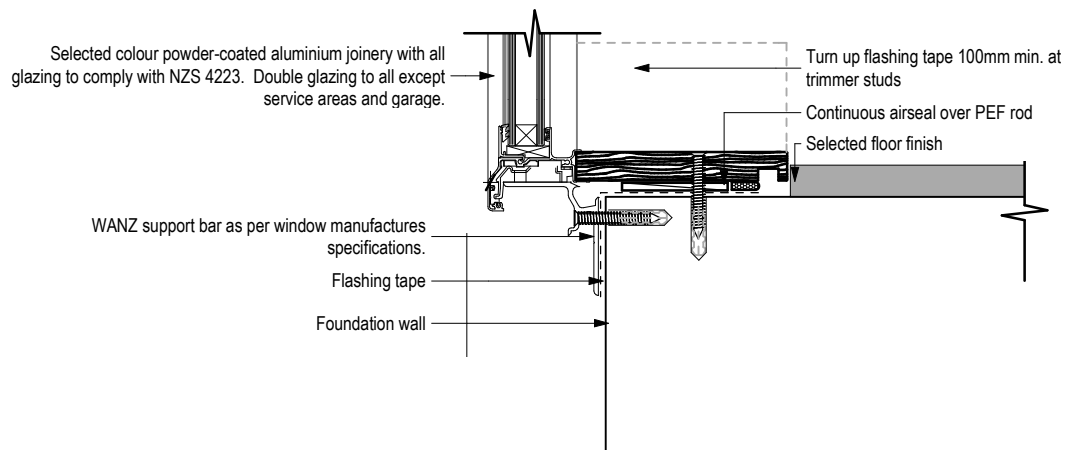


CONNECTING TOP PLATES TO EXTERNAL WALLS - WALLS CONTAINING BRACING

**NOTE:** Each wall that contains one or more wall bracing elements shall be connected at top plate level, either directly, or through framing member in the line of the wall, to external walls at right angles to it. Top plate fixing of the capacity in tension or compression along the line of the wall bracing element are given as below"  
(a) For each wall containing bracing elements with a total of not more than 250 BUs, the fixing capacity shall be 6 kN.  
(b) For each wall containing bracing elements with a total of more than 250 BUs, the fixing capacity shall be 2.4 kN.  
Refer to NZS 3604:2011 clause 8.7.3.4

Top Plate Bracing

SCALE 1:10 @A3

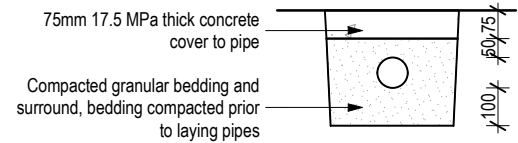


Typical Sill

SCALE 1:5 @A3

NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS

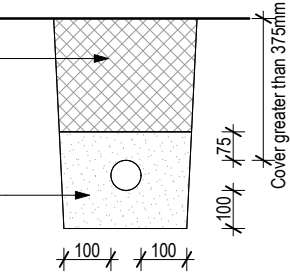
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Bedding & Back Filling 125mm - 375mm cover

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

Compacted granular bedding and surround, bedding compacted prior to laying pipes

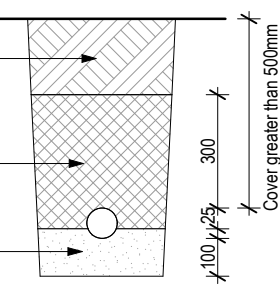


Bedding & Back Filling 375mm - 500mm cover

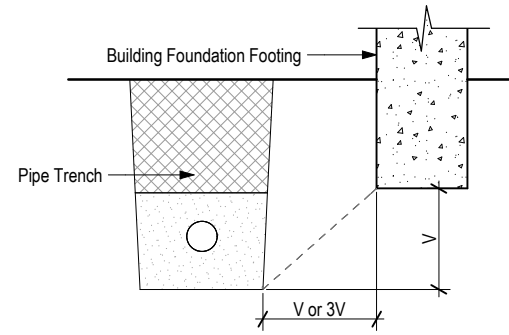
Fill shall be:  
Ordinary fill where drains are located below gardens and open country  
Compacted selected fill where drains are located below residential driveways and similar areas subject to light traffic.

Compacted selected fill.

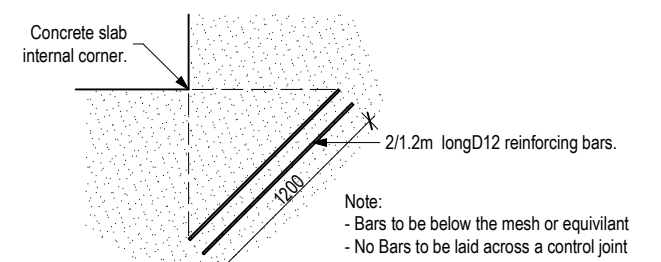
Compacted granular bedding and surround, bedding compacted prior to laying pipes



Bedding & Back Filling 500mm or more cover



Relationship of pipe trench to building foundation



Note: only required where a shrinkage control (saw cut or proprietary crack former) doesn't meet an internal corner

Supplymentry reinforcing to floor slab internal corners

## Bedding & Back Filling

SCALE 1:20 @A3

Drain pipe through foundation wall to be sleeved in uPVC pipe with hessian or similar packing to fill void between.

Pipes under floor slabs to be wrapped with hessian cloth or similar to protect against damage from movement.

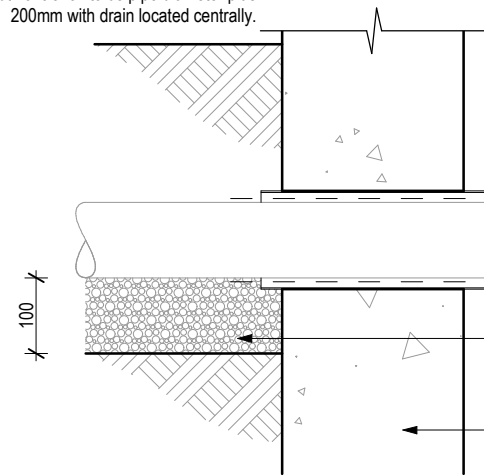
Refer to drainage plans for pipe sizes and gradients.

All drains under floor slab to be:  
-50mm min clearance from underside of floor slab.  
-laid straight with even gradient along length of drain.

## Slab Penetration

SCALE 1:10 @A3

Width of trench to be pipe diameter plus 200mm with drain located centrally.



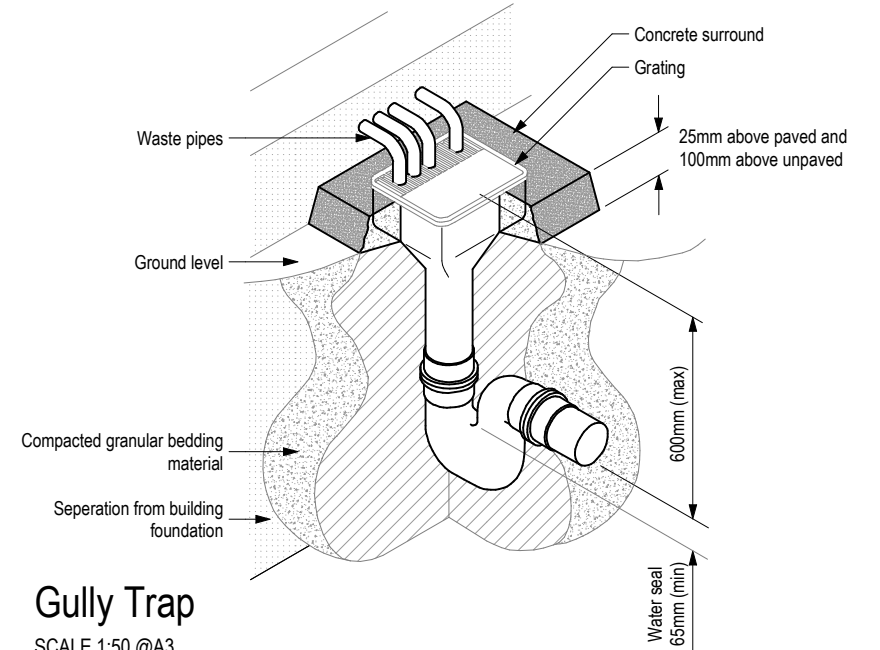
Drain pipe through foundation wall to be sleeved in uPVC pipe with hessian or similar packing to fill void between.

Refer to drainage plans for pipe sizes and gradients.

Pipes under floor slabs to be wrapped with hessian cloth or similar to protect against damage from movement.

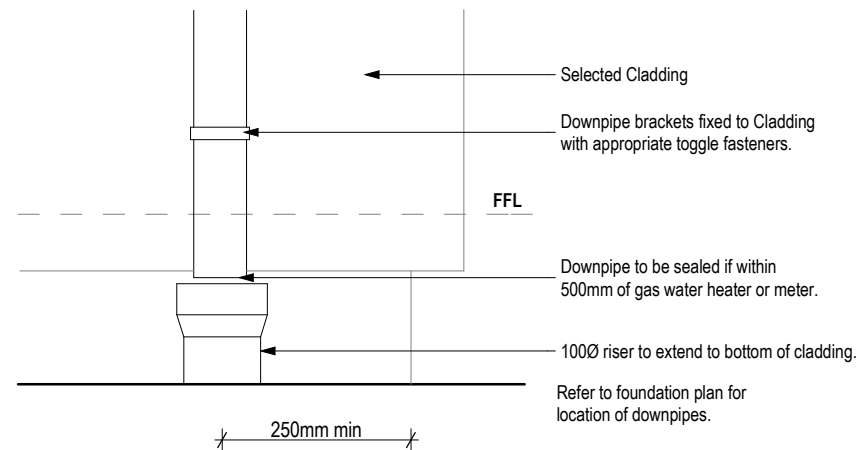
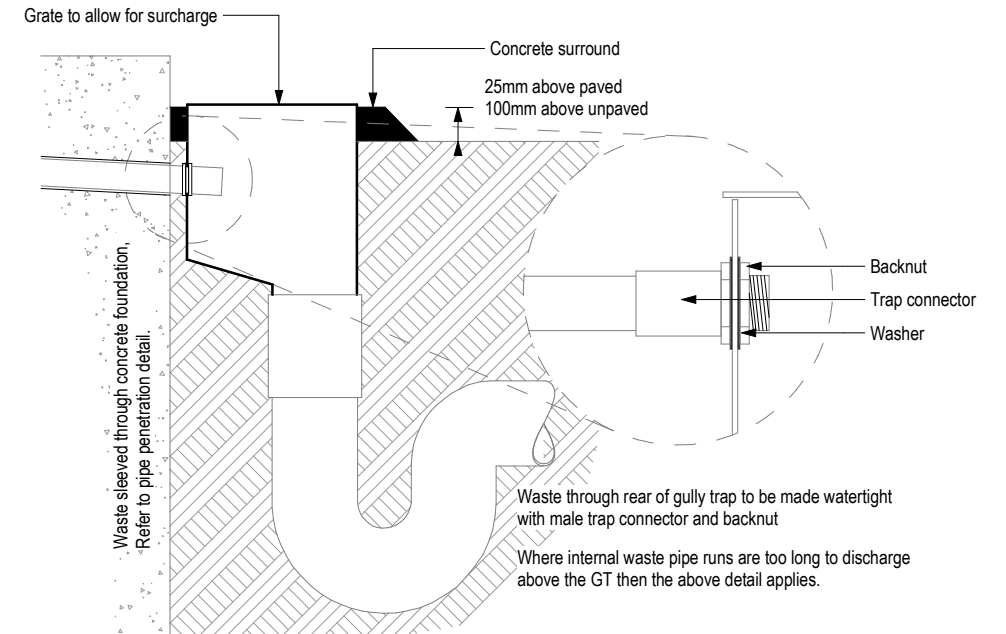
Compacted granular bedding and surround, base bedding compacted prior to laying pipes.

Drains through foundation wall to be placed to avoid interference with reinforcing steel layout, drains not to pass through foundation walls at any angle greater than 45°.



## Gully Trap

SCALE 1:50 @A3

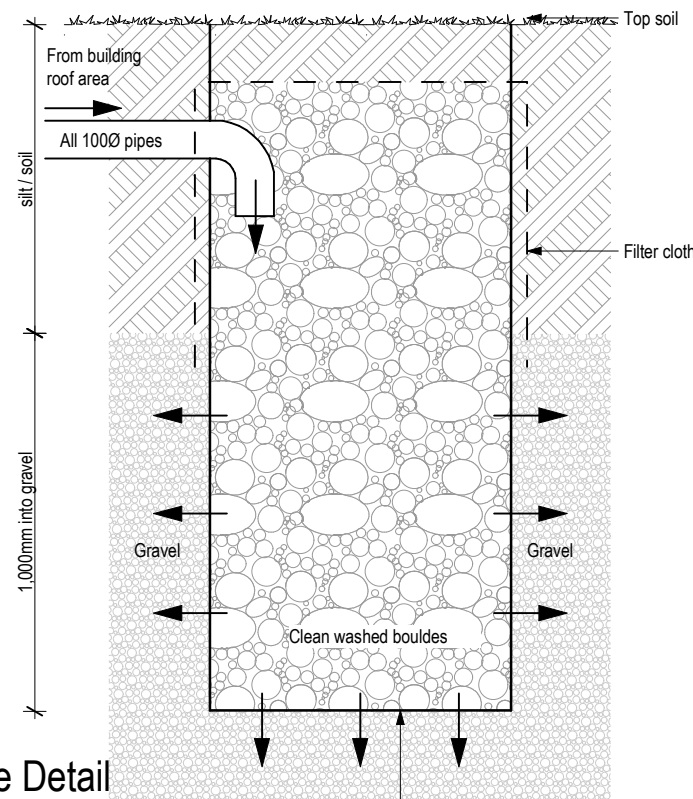


## Downpipe Corner Offset

SCALE 1:10 @A3

## Soak Hole Detail

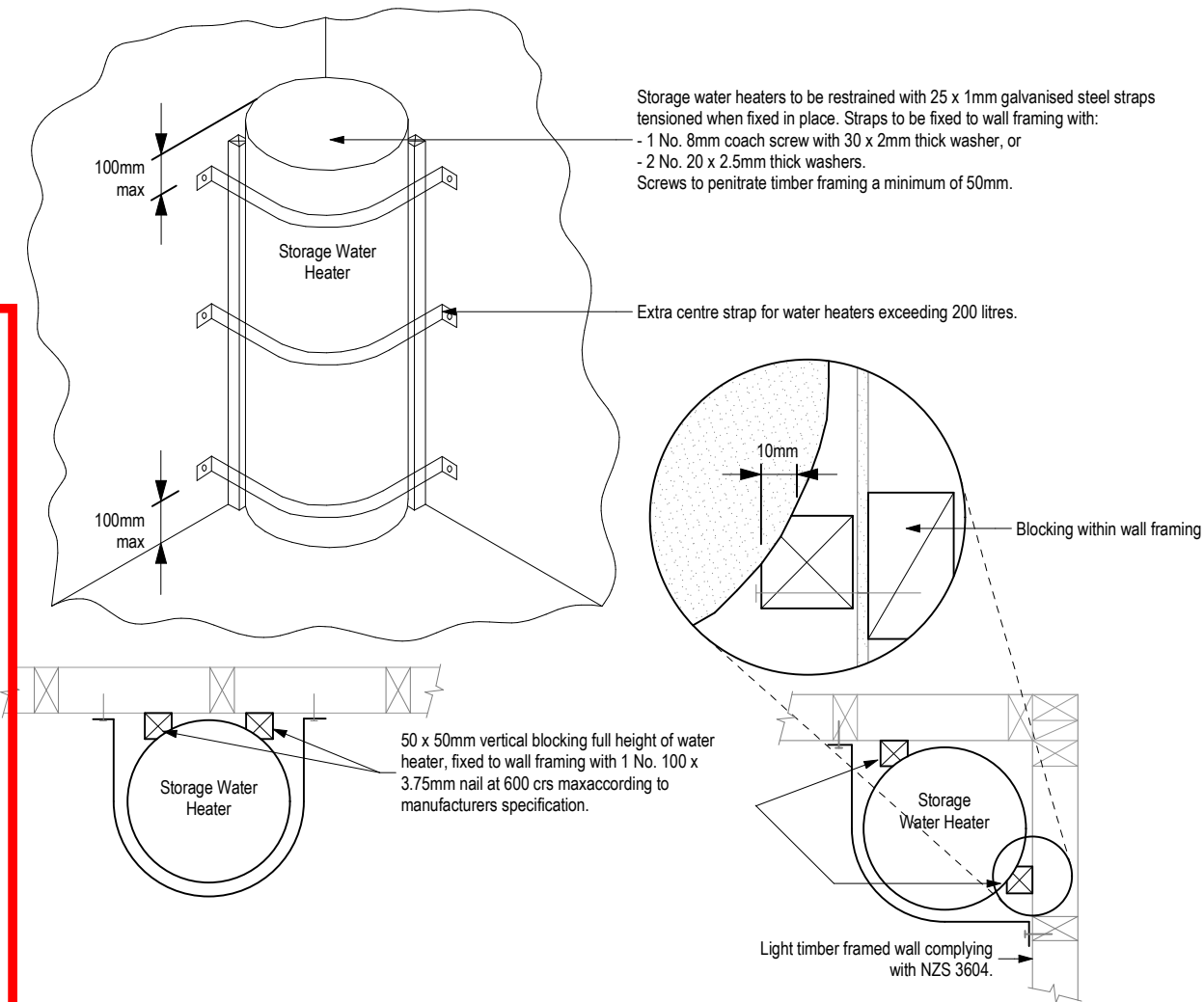
SCALE 1:20 @A3



Soak pit (Base area 1m<sup>2</sup> per 100m<sup>2</sup> roof)

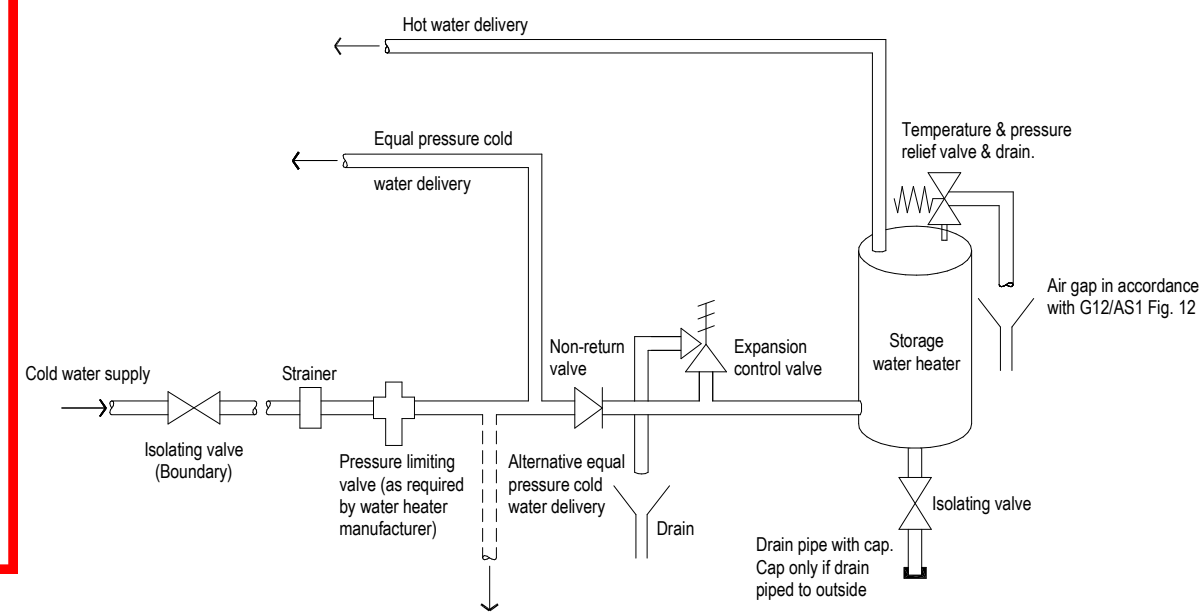
NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS

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|                                                                                                                                                                                                                                                          | REV #                                     | CH #                             | DESCRIPTION                                                                               | DATE                                                                                                                                                                                                                                                                                                                                                                             | DATE OF ISSUE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | DESIGNER:   | SCALE:           | SHEET:       |      |                |           |        |        |  |  |  |  |            |       |                  |              |  |  |  |  |                 |             |       |  |  |  |  |            |             |         |  |  |  |  |  |  |      |      |
|                                                                                                                                                                                                                                                          |                                           |                                  |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                  | 01.07.2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | AJ/MV       | 1:10, 1:20, 1:50 | <b>A5.08</b> |      |                |           |        |        |  |  |  |  |            |       |                  |              |  |  |  |  |                 |             |       |  |  |  |  |            |             |         |  |  |  |  |  |  |      |      |
|                                                                                                                                                                                                                                                          |                                           |                                  |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                  | AMENDMENT DATE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TECHNICIAN: | JOB #            |              |      |                |           |        |        |  |  |  |  |            |       |                  |              |  |  |  |  |                 |             |       |  |  |  |  |            |             |         |  |  |  |  |  |  |      |      |
|                                                                                                                                                                                                                                                          |                                           |                                  |                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                  | 22.09.2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | VERSION: V4 | CODE: A          |              |      |                |           |        |        |  |  |  |  |            |       |                  |              |  |  |  |  |                 |             |       |  |  |  |  |            |             |         |  |  |  |  |  |  |      |      |
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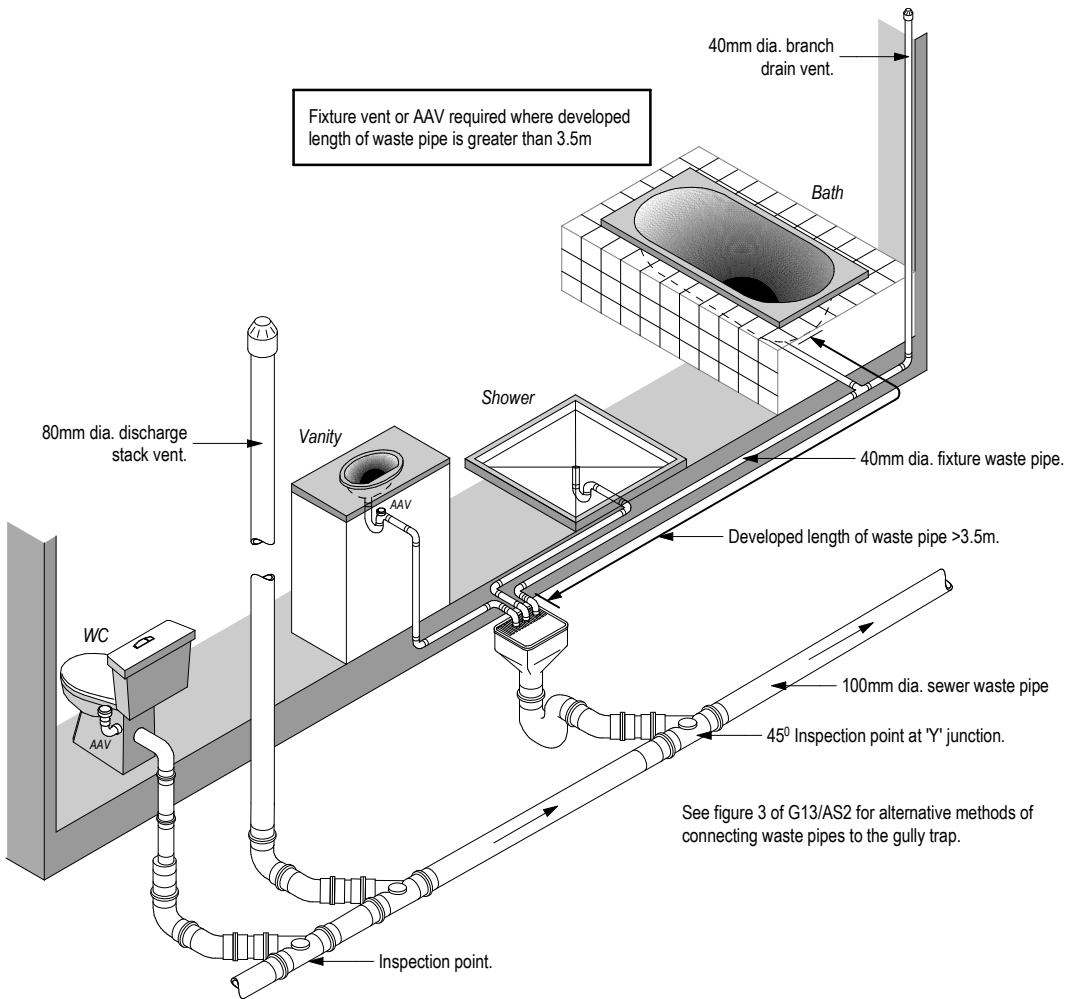
HWC Restraint Diagram

SCALE 1:50 @A3



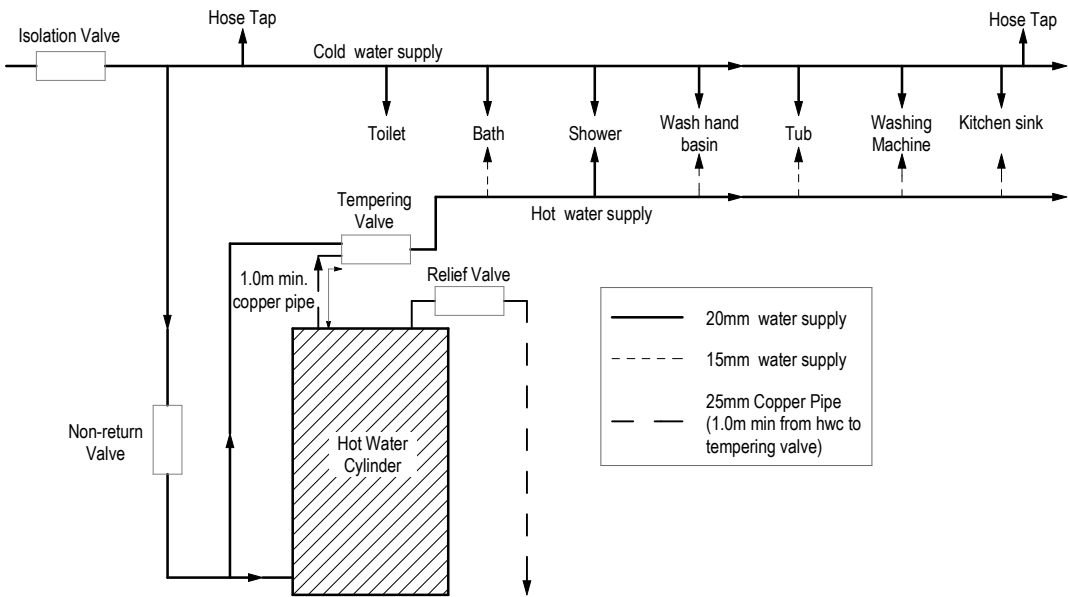
Hotwater Schematic Diagrams

SCALE 1:50 @A3



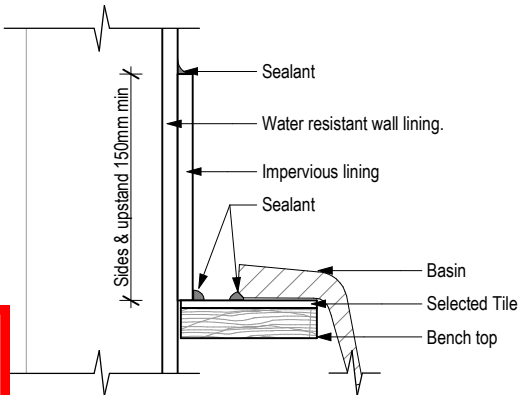
Typical Plumbing Schematic

SCALE 1:50 @A3



NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS

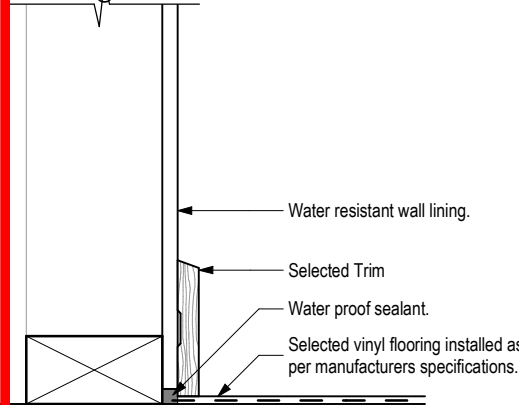
|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |                    |                |                        |      |      |  |  |
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|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | 01.07.2016      | TECHNICIAN:        |                |                        |      |      |  |  |
|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | AMENDMENT DATE: | IV                 | JOB #          |                        |      |      |  |  |
|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      | 22.09.2016      | VERSION:<br>V4     | CODE:<br>A     |                        | 4692 | REV: |  |  |
|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                       |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |      |                 |                    |                |                        |      |      |  |  |
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Basin Bench to Wall Junction

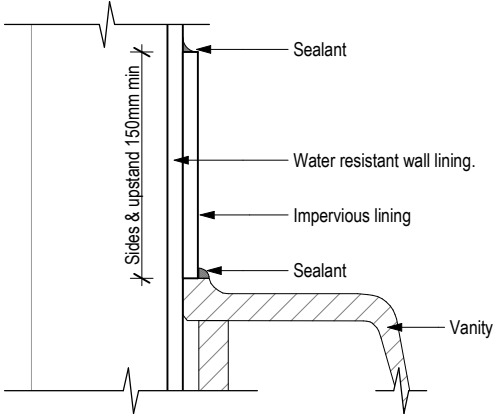
Basin Bench to Wall Junction

SCALE 1:5 @A3



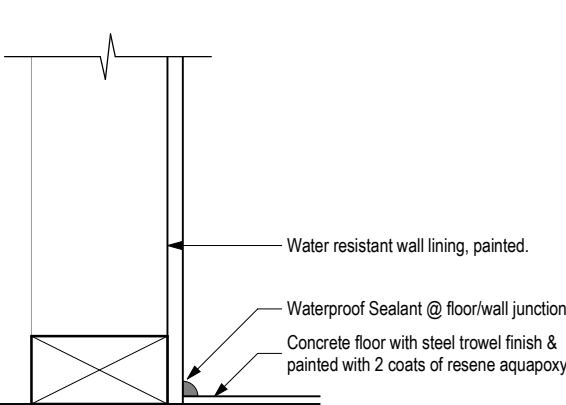
Vinyl Floor to Wall Junction

SCALE 1:5 @A3



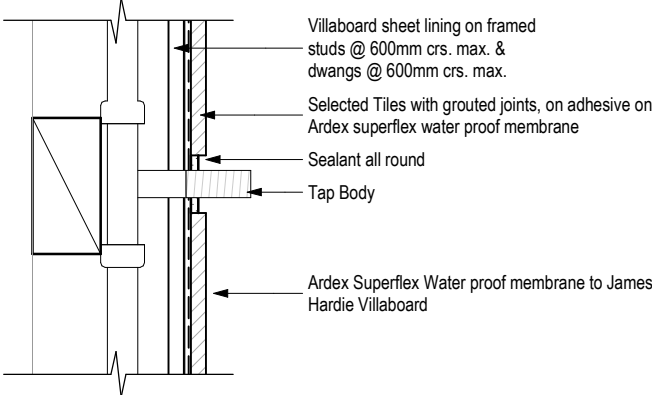
Vanity to Wall Junction

SCALE 1:5 @A3



Concrete Floor to Wall Junction

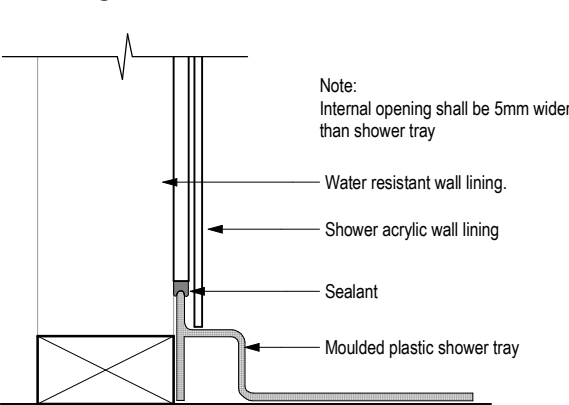
SCALE 1:5 @A3



1

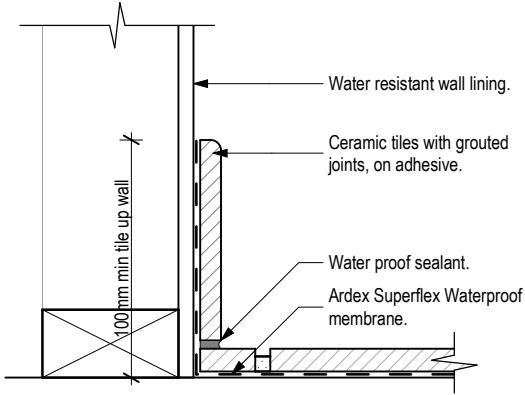
Pipe Penetration

SCALE 1:5 @A3



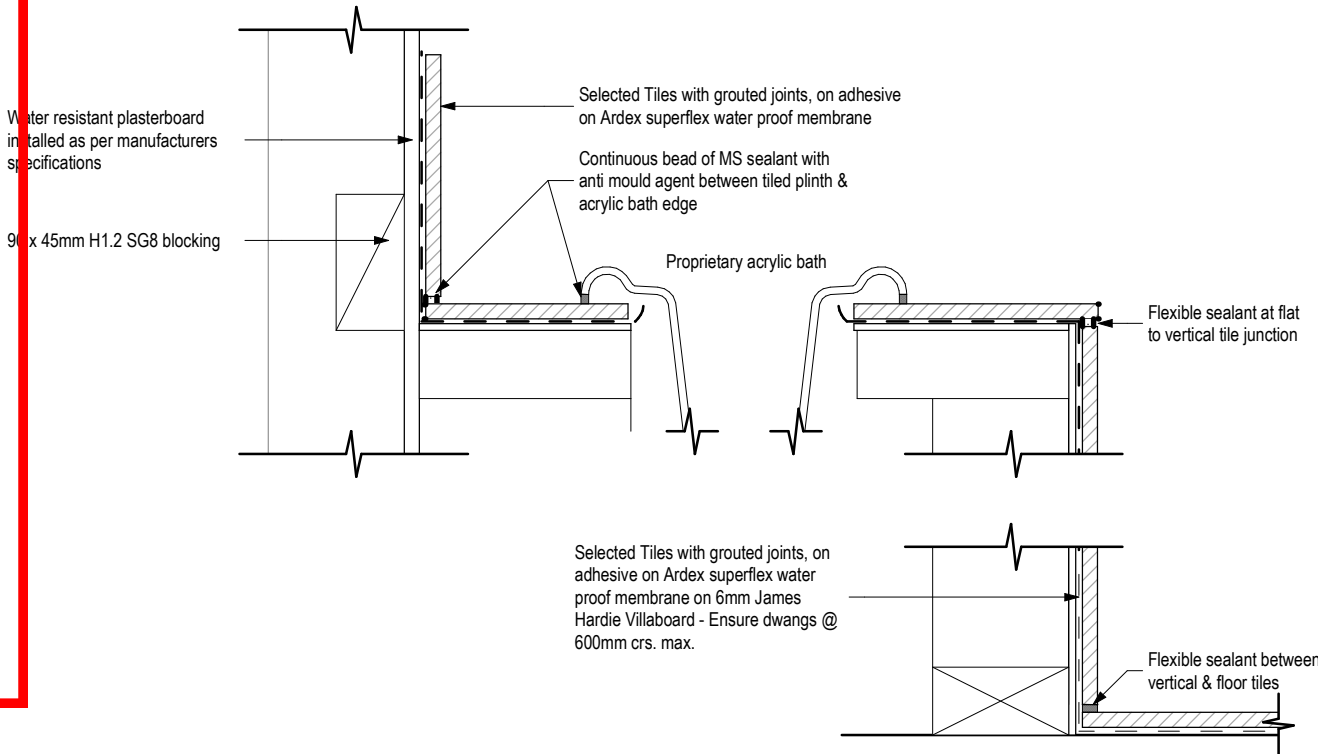
Acrylic Shower Base to Wall Junction

SCALE 1:5 @A3



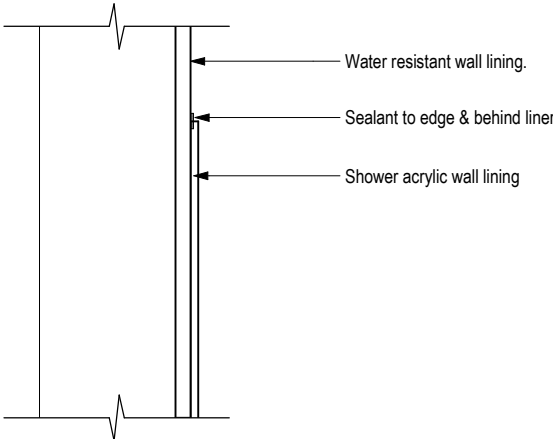
Tile floor to Wall Junction

SCALE 1:5 @A3



Acrylic Bath w/ Tile Surround to Wall Junction

SCALE 1:5 @A3



Acrylic to Wall Junction

SCALE 1:5 @A3

NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS

|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |                 |                |                    |               |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------------|-----------------|----------------|--------------------|---------------|------------------------|
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|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             | 01.07.2016      | TECHNICIAN:    | JOB #<br><br>4692  |               |                        |
|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             | AMENDMENT DATE: | VERSION:<br>V4 |                    | CODE:<br>A    |                        |
|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             | 22.09.2016      |                |                    |               |                        |
|                                                                                                                                                                                                                                                                                                 |                                           |                                  |                                                                                              |                                                                                                                                                                                                                                                                                                                                                                              |       |      |             |                 |                |                    |               |                        |

- Sizes shown above are rough opening sizes and leaf sizes.
- Sent to confirm window & door style & finishes.
- Confirm all opening sizes onsite prior to installation
- Refer to ground floor plan for accurate opening location.

|                             |                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------|
| -Jannery:                   | All exterior window and doors to be colorsteel powdercoated aluminium framed                               |
| with                        | double glazing and dressed timber reveals unless noted otherwise. Refer to specification for full details. |
| -Internal Door Leaf Height: | -Standard.                                                                                                 |
| -Internal Door Leaf Width:  | -Typically 810mm (unless noted on plan).                                                                   |
|                             | -Typically 710mm (wet areas).                                                                              |
| -Garage Door:               | -Coloursteel flat panel sectional.                                                                         |
| -Lintels:                   | -Refer to the Floor Plan for lintel sizes.                                                                 |
| -Safety Glazing (SG):       | -To all windows less than 500mm above FFL, unless a transom is less than 1.0m from FL.                     |
|                             | -To all windows in wet areas less than 1.6m above FFL.                                                     |
|                             | -To all doors (bottom pane only where a transom is used.)                                                  |
| -Obscure Glazing (OB):      | -To Bathroom, Wc and Ensuite                                                                               |

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

**Standard Unit**  
mm Glass / 12mm Air Gap / 4mm Glass

**Slider Unit**  
mm Glass / 8mm Air Gap / 5mm Glass

**Safety Panel**  
mm Toughened / 8mm Air Gap / 6.38mm Laminate

Note:  
 All doors & sliders are taken from **External Elevation**.  
 All windows are taken from **External Elevation**.

Window & Door Layout Plan takes precedence over Window Schedule - Refer to Plan & Elevations for opening direction.

Note:  
Selected colour powder-coated aluminum joinery with all glazing to comply with NZS 4223. Double glazed to all except service area and garage outside insulation envelope grade A safety glazing indicated with SG

**Note:** Glazing & glazed opening to comply with NZS 4223.3.2016 Glazing in building part 3: Human impact safety requirements, NZS 4211: 2008: Specification for performance of windows & NZBC clause: F2 Hazardous materials

| <b>Natural Light:</b> | <b>Window Area/Room Area</b> |                  |              |
|-----------------------|------------------------------|------------------|--------------|
| <b>Rooms</b>          | <b>Window Area (Glazed)</b>  | <b>Room Area</b> | <b>Total</b> |
|                       |                              |                  |              |
| Living                | 3.76                         | 23.1             | 16%          |
| Dining/ Kitchen       | 3.73                         | 22.26            | 17%          |
| Entry                 | 0                            | 4.59             | 0%           |
| Bathroom              | 1.48                         | 6.12             | 24%          |
| Bedroom 3             | 1.91                         | 12.57            | 15%          |
| Bedroom 2             | 2.68                         | 12.05            | 22%          |
| Ensuite               | 0.72                         | 4.57             | 16%          |
| WIR                   | 0.43                         | 3.29             | 13%          |
| Bedroom 1             | 2.81                         | 13.3             | 21%          |
| Hallway               | 0                            | 1.13             | 0%           |

| <b>Ventilation:</b> |                             | <b>Vented Area/Room Area</b> |              |
|---------------------|-----------------------------|------------------------------|--------------|
| <b>Rooms</b>        | <b>Window Area (Vented)</b> | <b>Room Area</b>             | <b>Total</b> |
| Living              | 5.82                        | 23.1                         | 25%          |
| Dining/ Kitchen     | 2.07                        | 22.26                        | 9%           |
| Entry               | 1.76                        | 4.59                         | 38%          |
| Bathroom            | 0.74                        | 6.12                         | 12%          |
| Bedroom 3           | 0.91                        | 12.57                        | 7%           |
| Bedroom 2           | 1.68                        | 12.05                        | 14%          |
| Ensuite             | 0.72                        | 4.57                         | 16%          |
| WIR                 | 0.3                         | 3.29                         | 9%           |
| Bedroom 1           | 2.29                        | 13.3                         | 17%          |
| Hallway             | 1.79                        | 1.13                         | 158%         |

**NOTE: THE SCHEDULE OF FIXTURES AND FITTINGS TAKES PRECEDENCE OVER THESE DRAWINGS**

| REV # | CH # | DESCRIPTION | DATE | DATE OF ISSUE:  | DESIGNER:   | SCALE: | SHEET: |  |
|-------|------|-------------|------|-----------------|-------------|--------|--------|--|
|       |      |             |      | 01.07.2016      | AJ/MV       | 1:1    | A6.01  |  |
|       |      |             |      |                 | TECHNICIAN: |        |        |  |
|       |      |             |      | AMENDMENT DATE: | IV          | JOB #  |        |  |
|       |      |             |      | 22.09.2016      | VERSION:    | CODE:  |        |  |
|       |      |             |      |                 | V4          | A      | 4692   |  |
|       |      |             |      |                 |             |        | REV:   |  |