

Proposed Additions

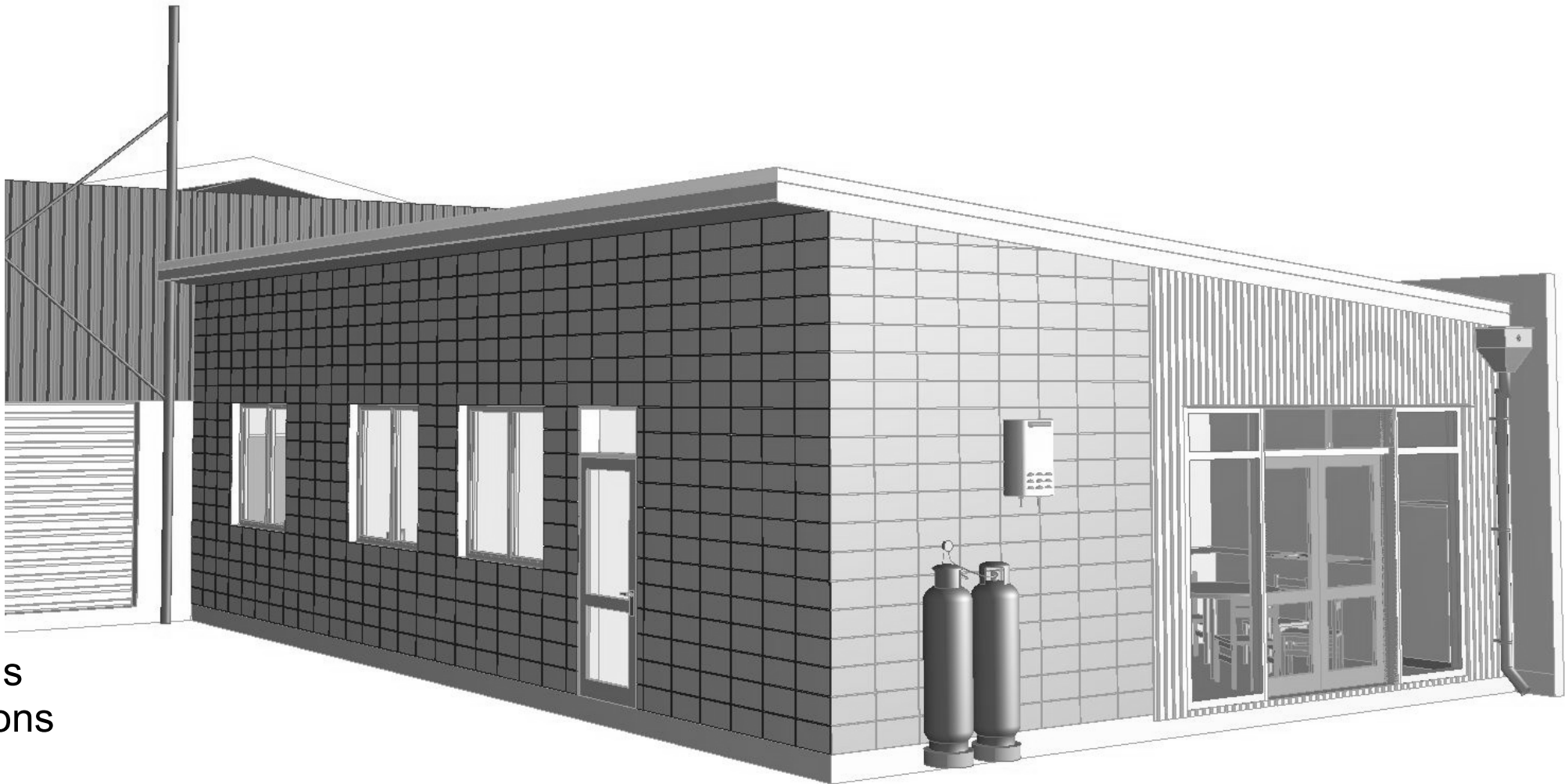
80 Byron Street

Christchurch

For Clip & Climb

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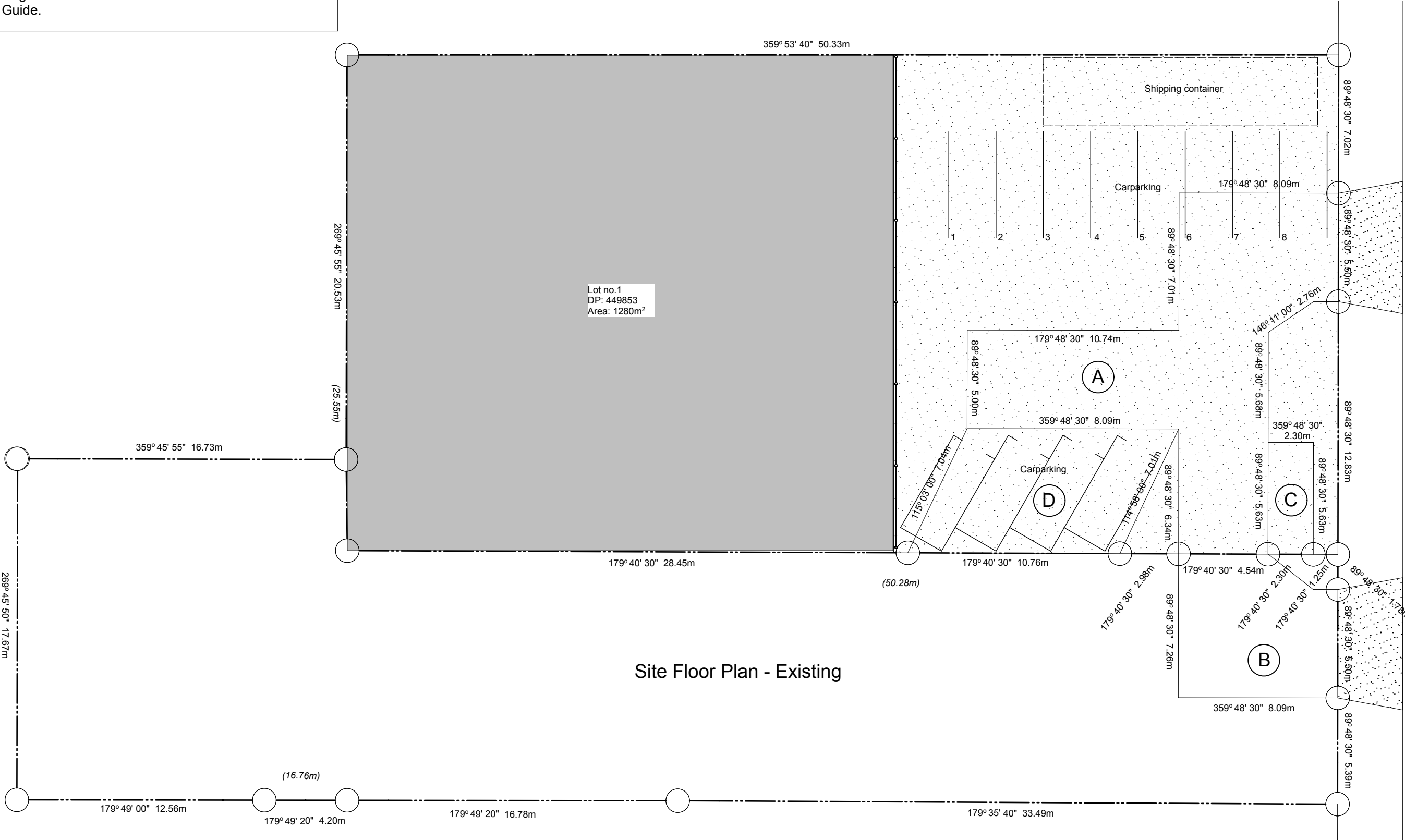
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Notes
Sediment and runoff control management plan shall be designed and installed by the licensed building practitioner prior to, or, during the siteworks for the project. The sediment controls shall be installed in accordance with the requirements of Christchurch City Council's City Plan and Environment Canterbury Regional Council Erosion and Sediment Control Guide.

Notes
Wind Exposure Zone C
Earthquake Zone 2
Snow Load N4 -1kPa



BYRON STREET

Notes

Sediment and runoff control management plan shall be designed and installed by the licensed building practitioner prior to, or, during the siteworks for the project. The sediment controls shall be installed in accordance with the requirements of Christchurch City Council's City Plan and Environment Canterbury Regional Council Erosion and Sediment Control Guide.

Car parking calculations:

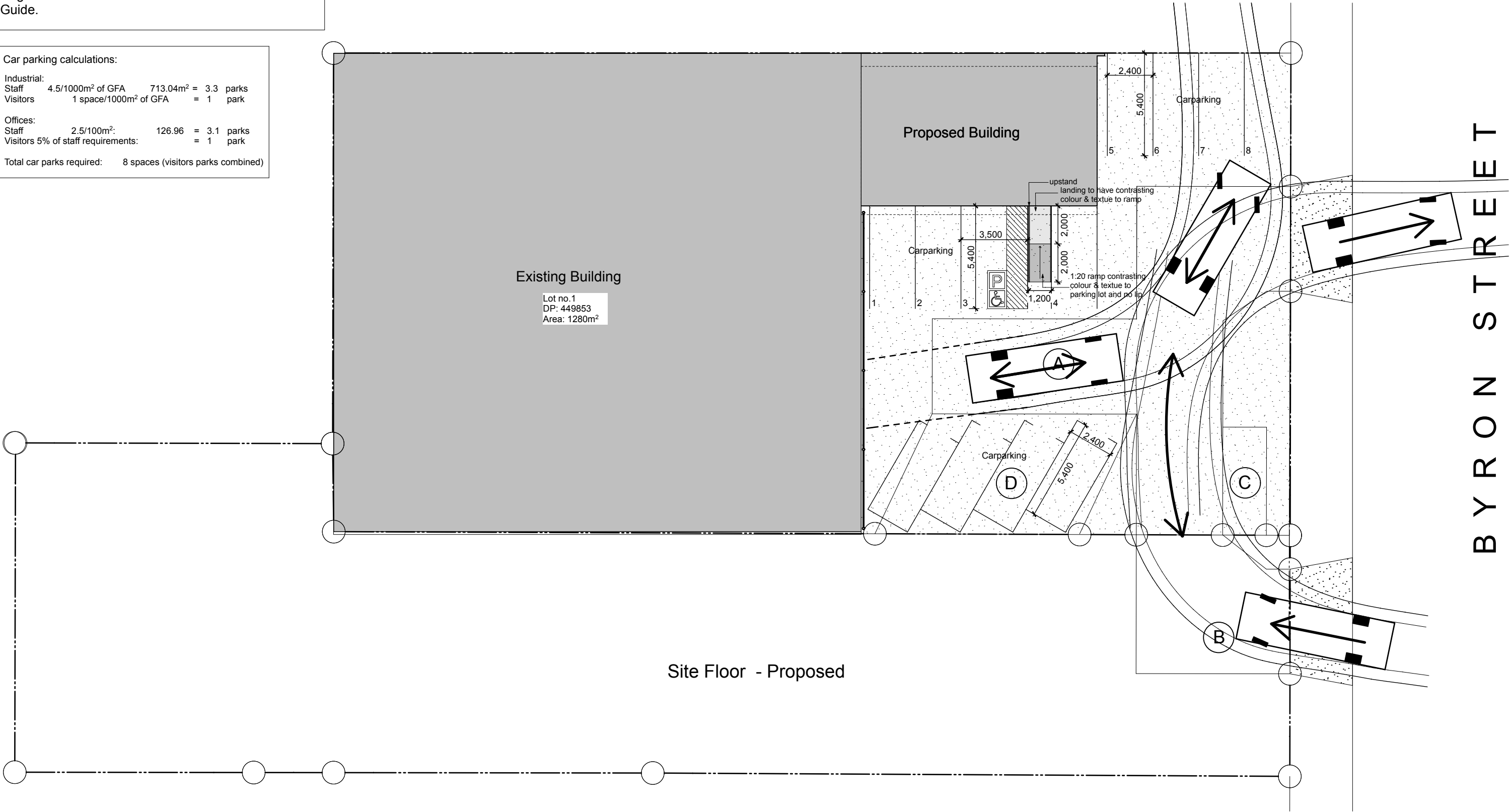
Industrial:
Staff 4.5/1000m² of GFA 713.04m² = 3.3 parks
Visitors 1 space/1000m² of GFA = 1 park

Offices:
Staff 2.5/100m²: 126.96 = 3.1 parks
Visitors 5% of staff requirements: = 1 park

Total car parks required: 8 spaces (visitors parks combined)

Notes

Wind Low
Exposure Zone C
Earthquake Zone 2
Snow Load N4 -1kPa



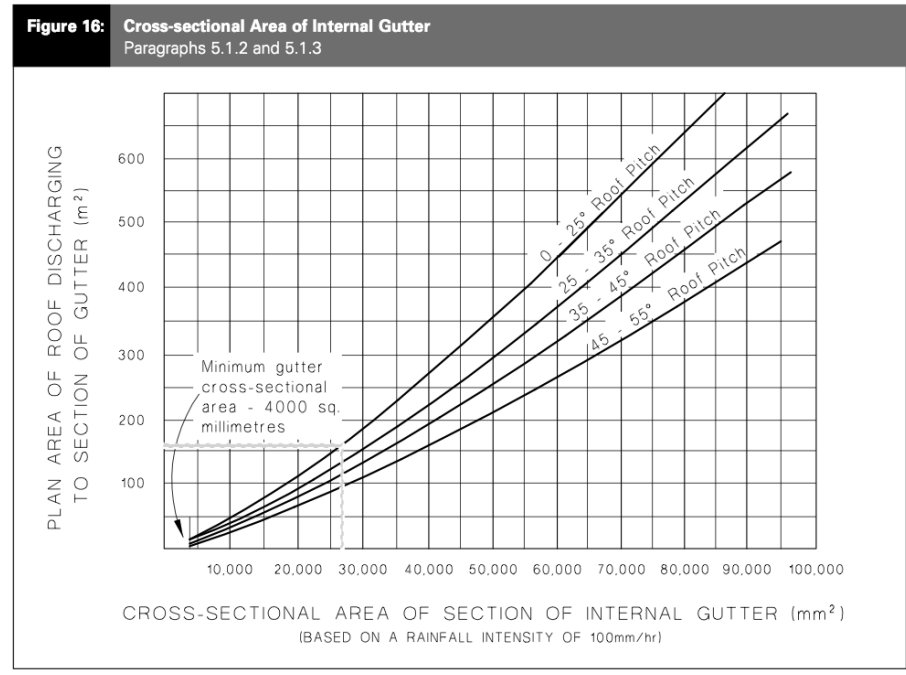
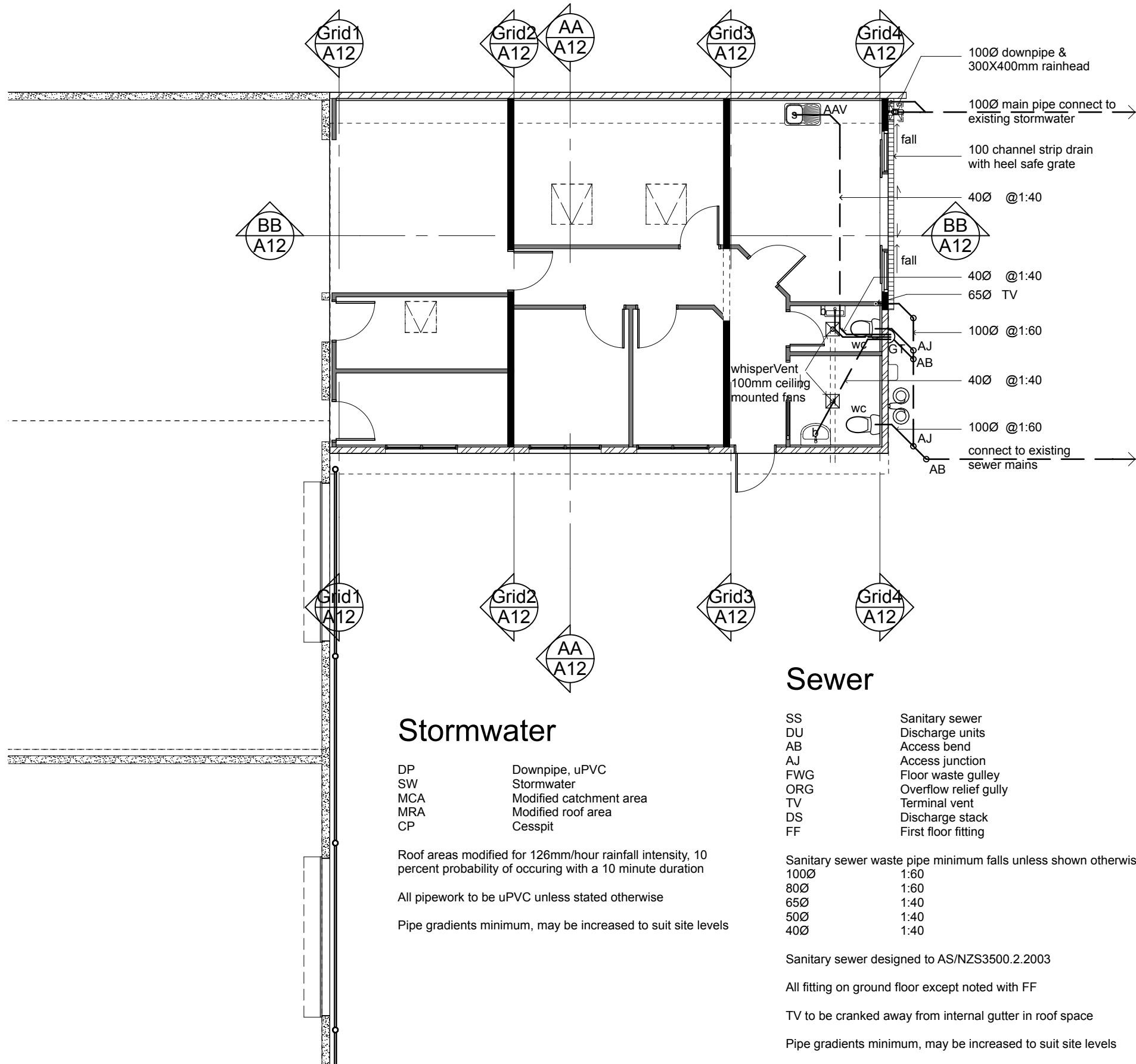


Table 5: Downpipe Sizes for Given Roof Pitch and Area
 Paragraph 4.2.1

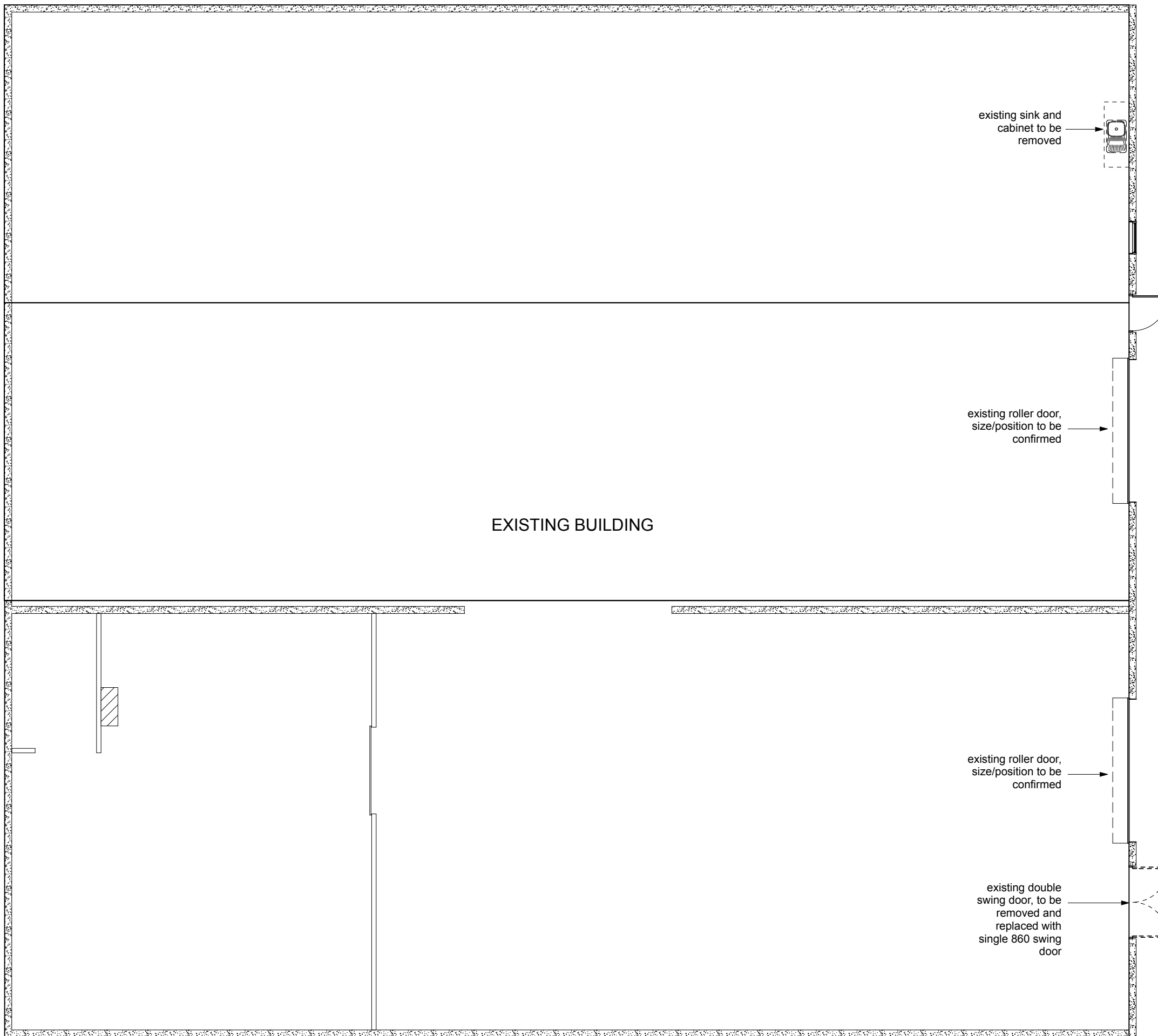
Downpipe size (mm) (minimum internal sizes)	Roof pitch			
	0-25°	25-35°	35-45°	45-55°
	Plan area of roof served by the downpipe (m ²)			
63 mm diameter	60	50	40	35
74 mm diameter	85	70	60	50
100 mm diameter	155	130	110	90
150 mm diameter	350	290	250	200
65 x 50 rectangular	60	50	40	35
100 x 50 rectangular	100	80	70	60
75 x 75 rectangular	110	90	80	65
100 x 75 rectangular	150	120	105	90

Roof & Gutter Area
 105.2331 m²

Stormwater

Roof area + Gutter area = 105.23m²
 Rain intensity 50
 MRA factor 50/100=.5
 105.23x.5= 52.61m²
 MRA= 52.61m²

Cross sectional gutter area required = 26,000mm²
 Cross sectional gutter area achieved 132x600 = 79,200mm²
 Down pipe 100Ø



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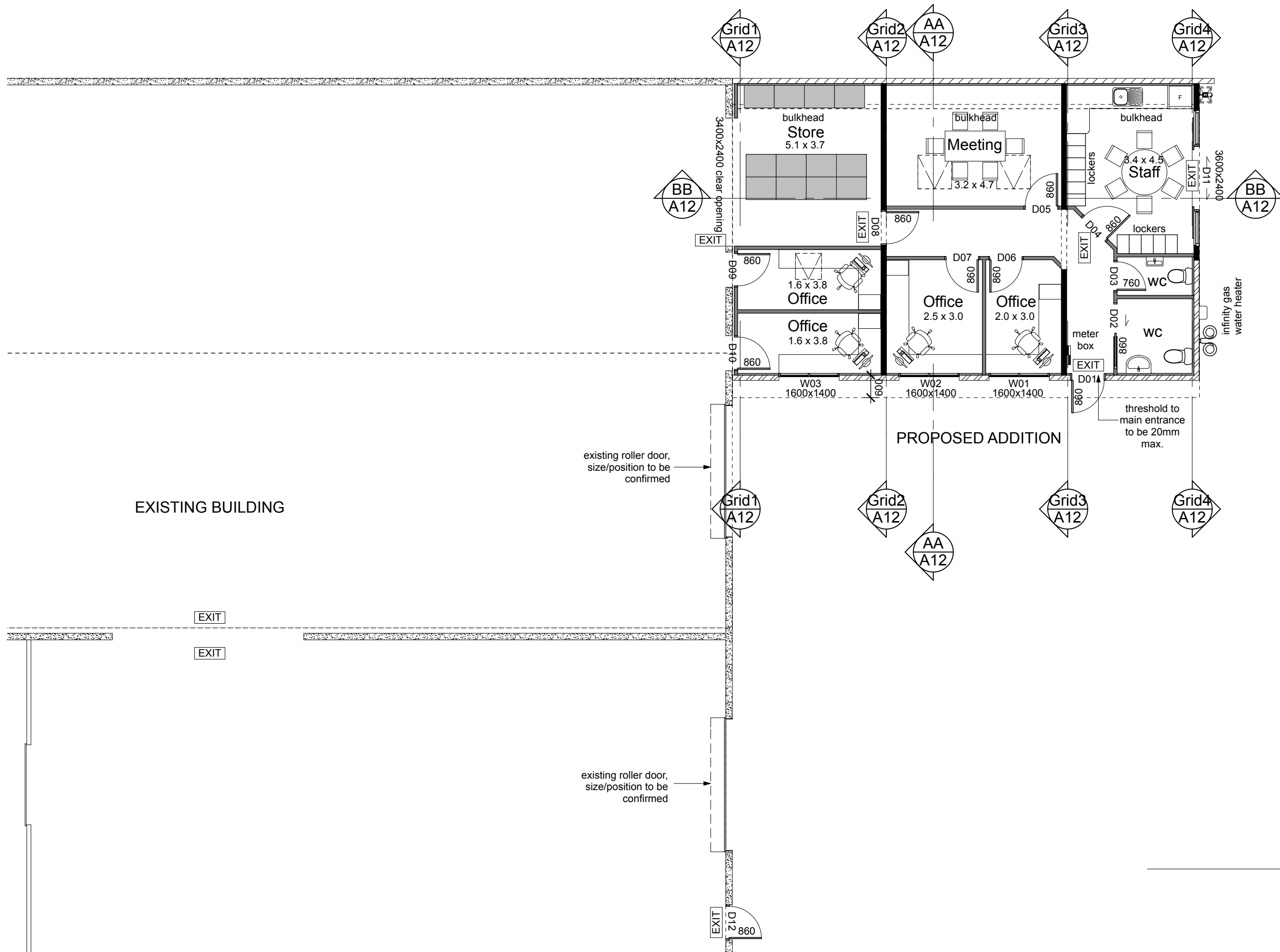
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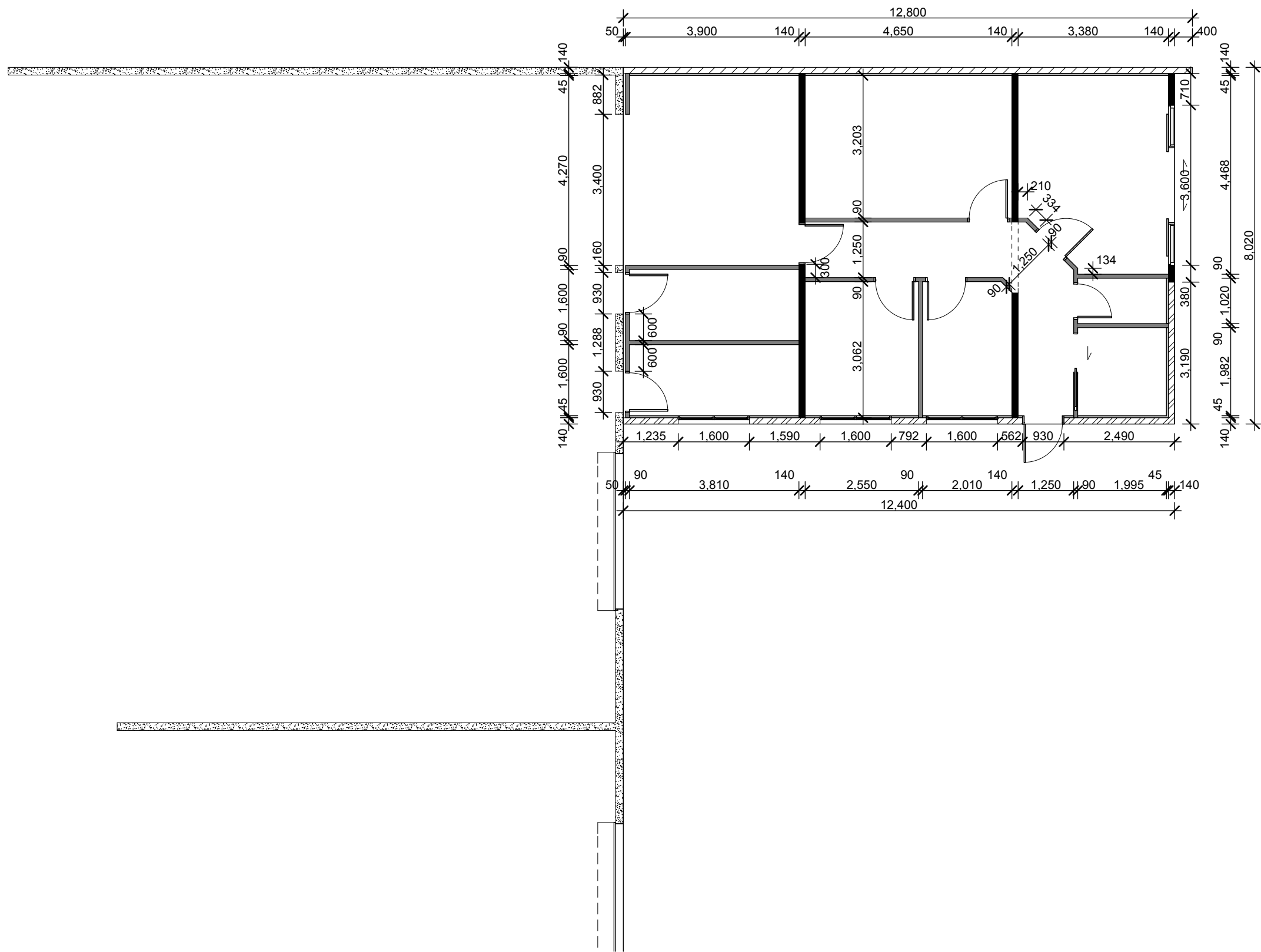
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Notes

- 15 series stack bond fully filled masonry block wall
- 15 series running bond fully filled masonry block wall
- 140x45 H1.2 SG8 timber framed full height & raking load bearing walls with studs @ 600cc & nogs @ 800cc to
- 90X45 H1.2 SG8 timber framed 2700mm high non-load bearing walls with studs @ 600 crs & nogs @ 800crs
- 45X45 H1.2 timber strapping to exterior masonry walls
- Existing Conc. wall
- 10mm Gib board to walls
- 10mm aqua Line Gib to WC and Accessible WC walls
- 21mm plywood over 70X35 H1.2 SG8 ceiling battens, fixed with 50mm screws @ 600 crs.
- Accessible WC to comply with NZBC G1/AS1
- Accessible WC & WC require Install Simx WhisperVent 100 ceiling fan providing 63l/s, 225m³/hr 100Ø duct DCT0409, weatherproof cowl, Duct to extend through ceiling pace to outside through soffit lining.
- Accessible sign to door
- All timber framed walls to comply with NZS3604:2011
- All timber framing to be SG8 H1.2 treated unless stated otherwise



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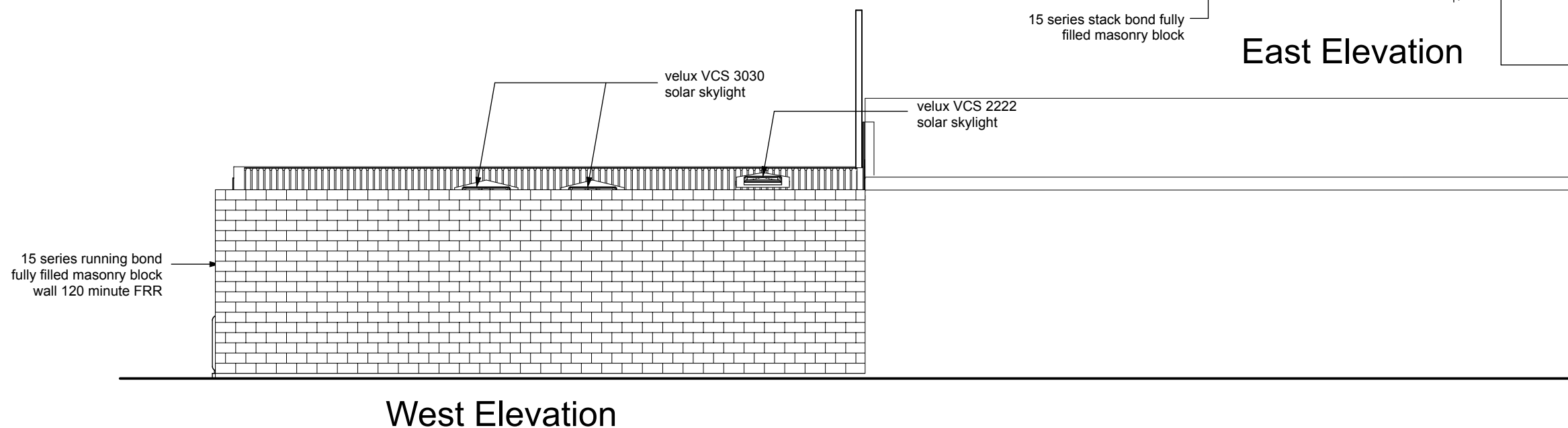
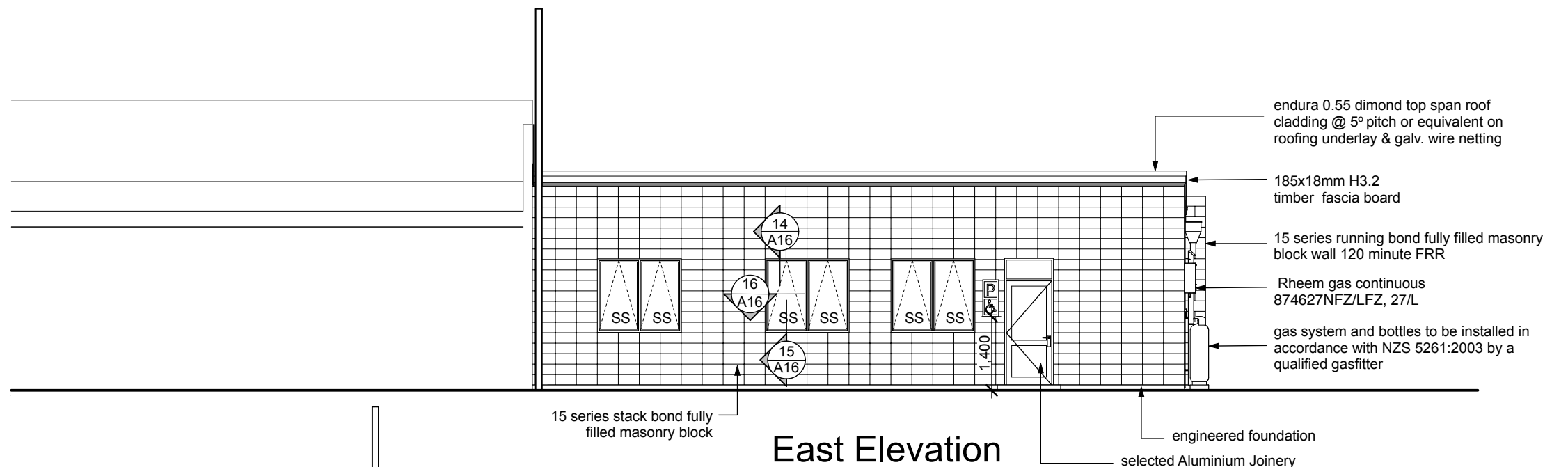
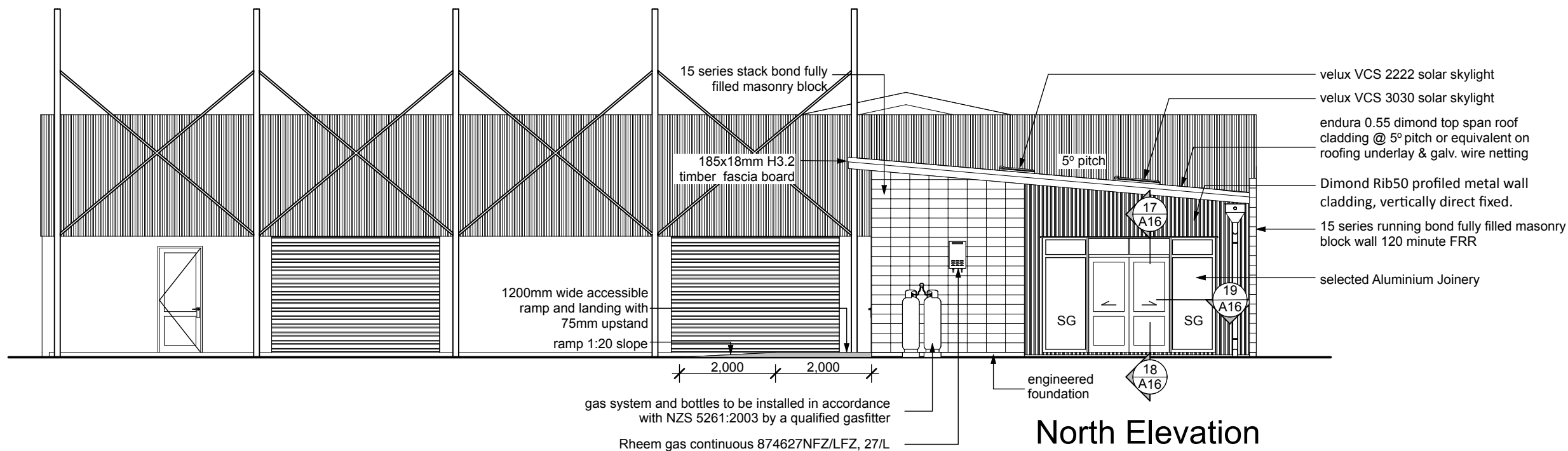
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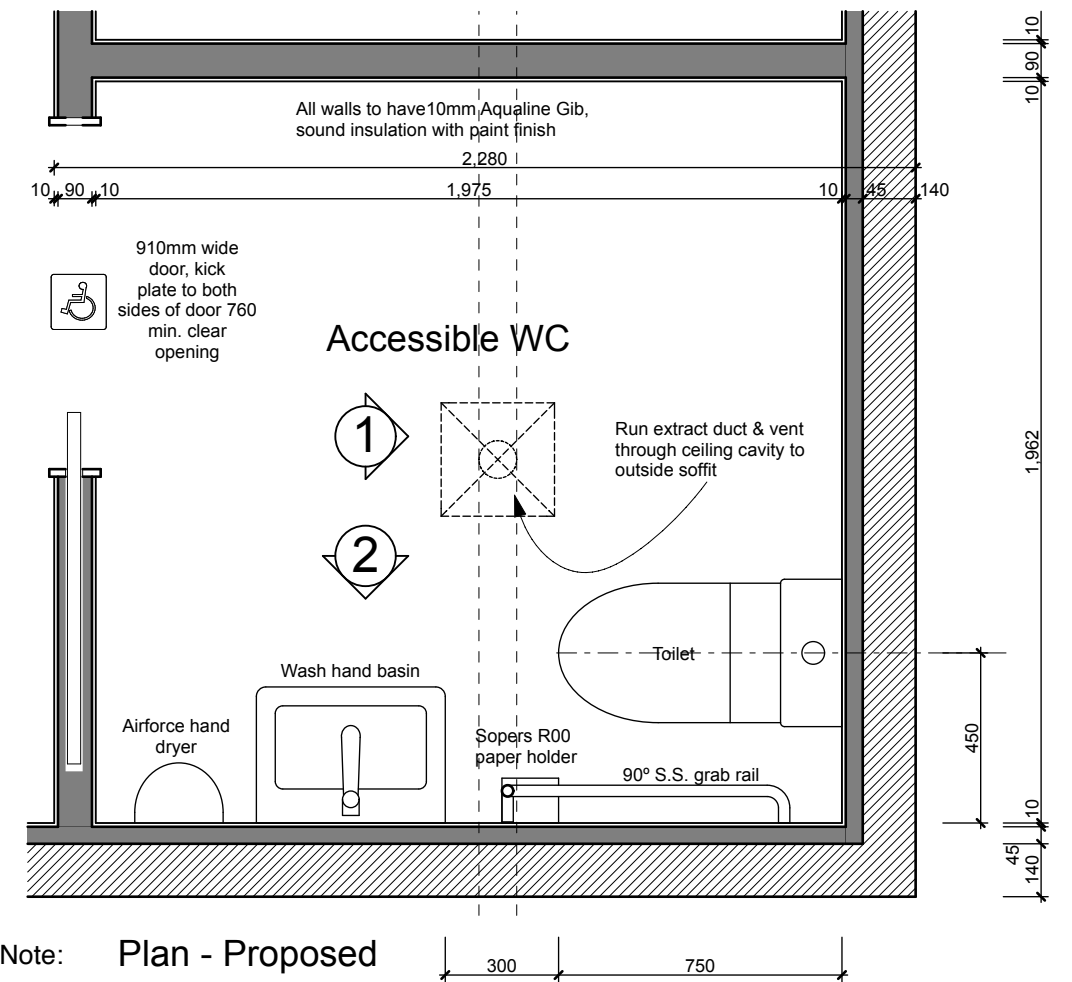
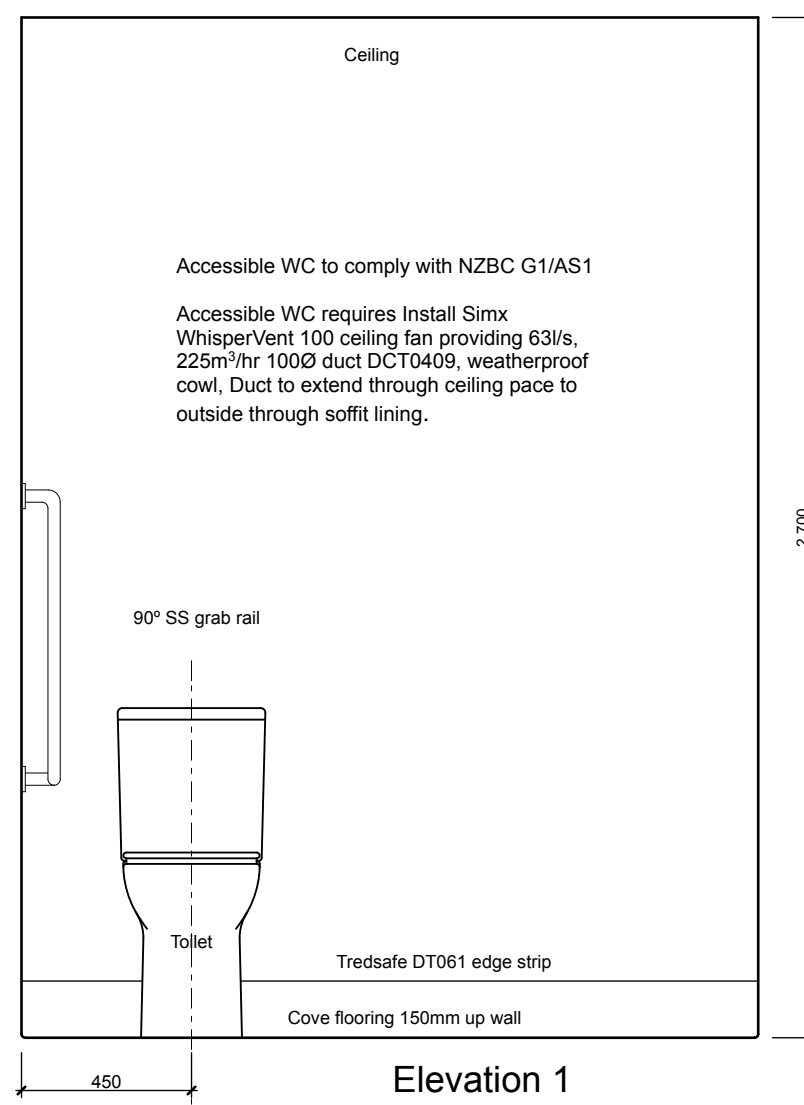
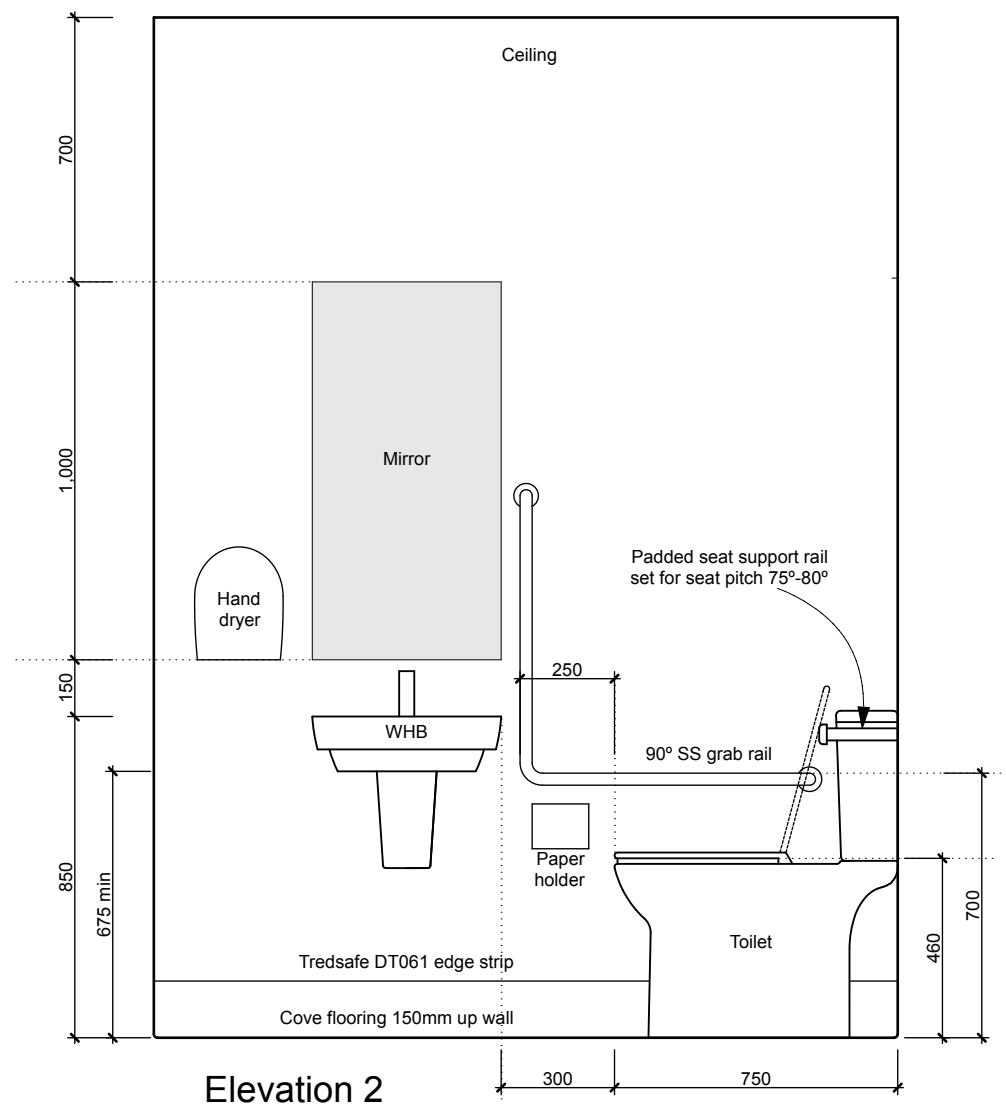
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Note: Plan - Proposed

Door handles and related hardware and accessories shall comply with the following requirements:

Handles shall be between 900 mm and 1200 mm (optimum 1000 mm) above the finished floor level

Handles operating locks and latches shall have a lever action and the end of the handle shall be returned towards the door

The door opening pressure shall be the minimum required to suit specific use and conditions

The force required to push or pull open a non-fire door shall not exceed the following:

Exterior hinged door: 38 N

Interior hinged door: 22 N

Sliding or folding doors: 22 N

Accessible signage to be provided to comply with F8/AS1

Display the symbol of access and as appropriate, include the direction travel and name of facility (see Figure 5) 1400mm to 1700mm above floor level

Use lettering and symbols in a colour which contrasts clearly with the background and

Use the proportional layout of the symbol of access, as show in figure 6

Similar sign for disabled bathroom.

Door closers to have minimum tension required to bring door to closed position

Light switches and power outlets to comply with 14.7.4.17 NZS 4121: 2001

Artificial lighting complying with NZBC G8 shall be provided along the access route.

All non - slip surfaces will comply with Table 2 D1/AS1

The colour of doors shall contrast to their surroundings



CS For Doors
Easy Open WC
latch or equivalent



Accessible Doors
handle or equivalent

Lockwood 8002
Swing Door Operators

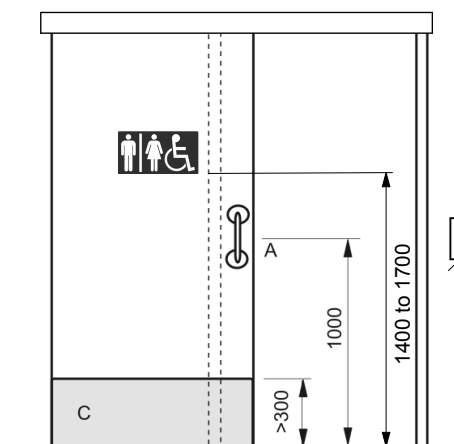


Accessible Doors
closer or equivalent

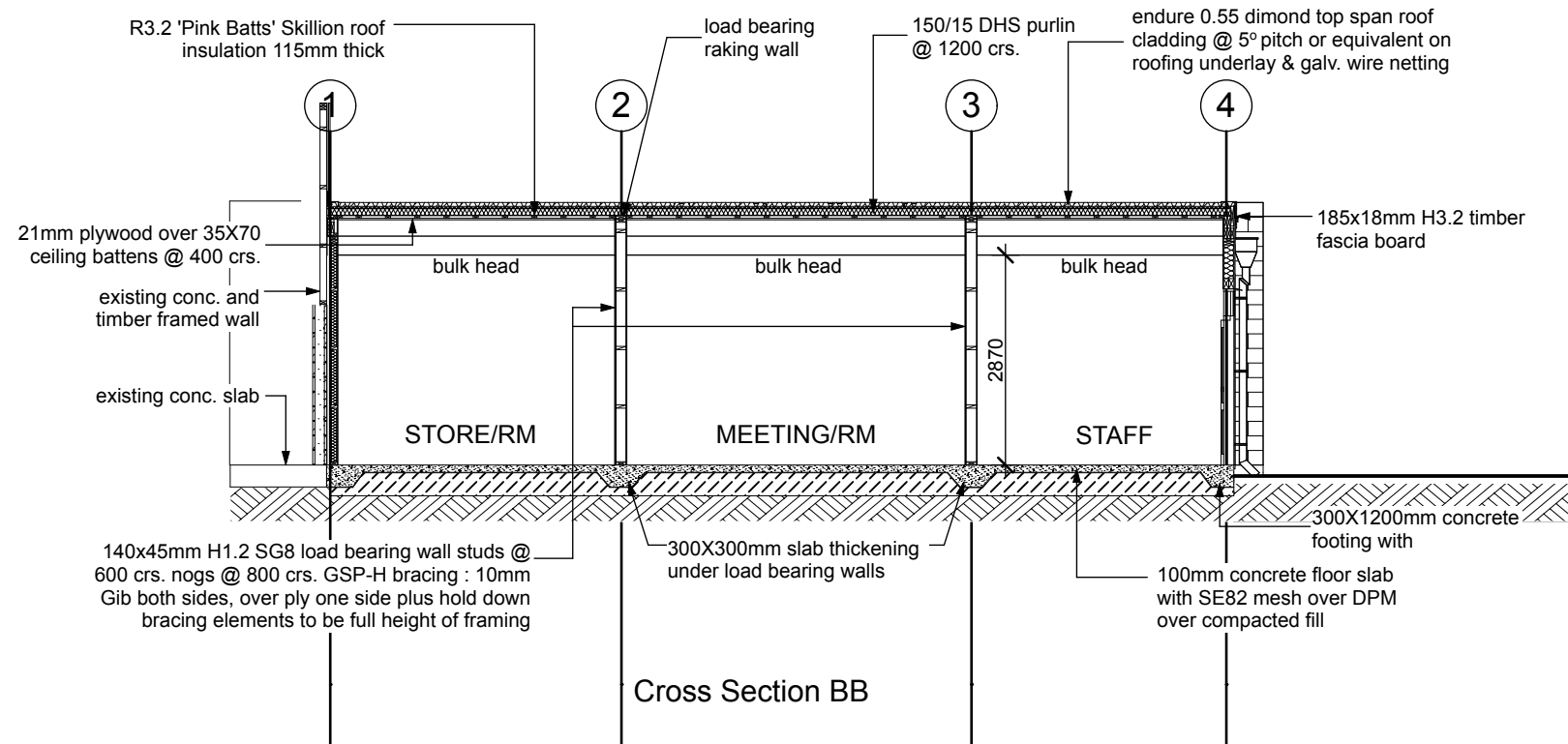
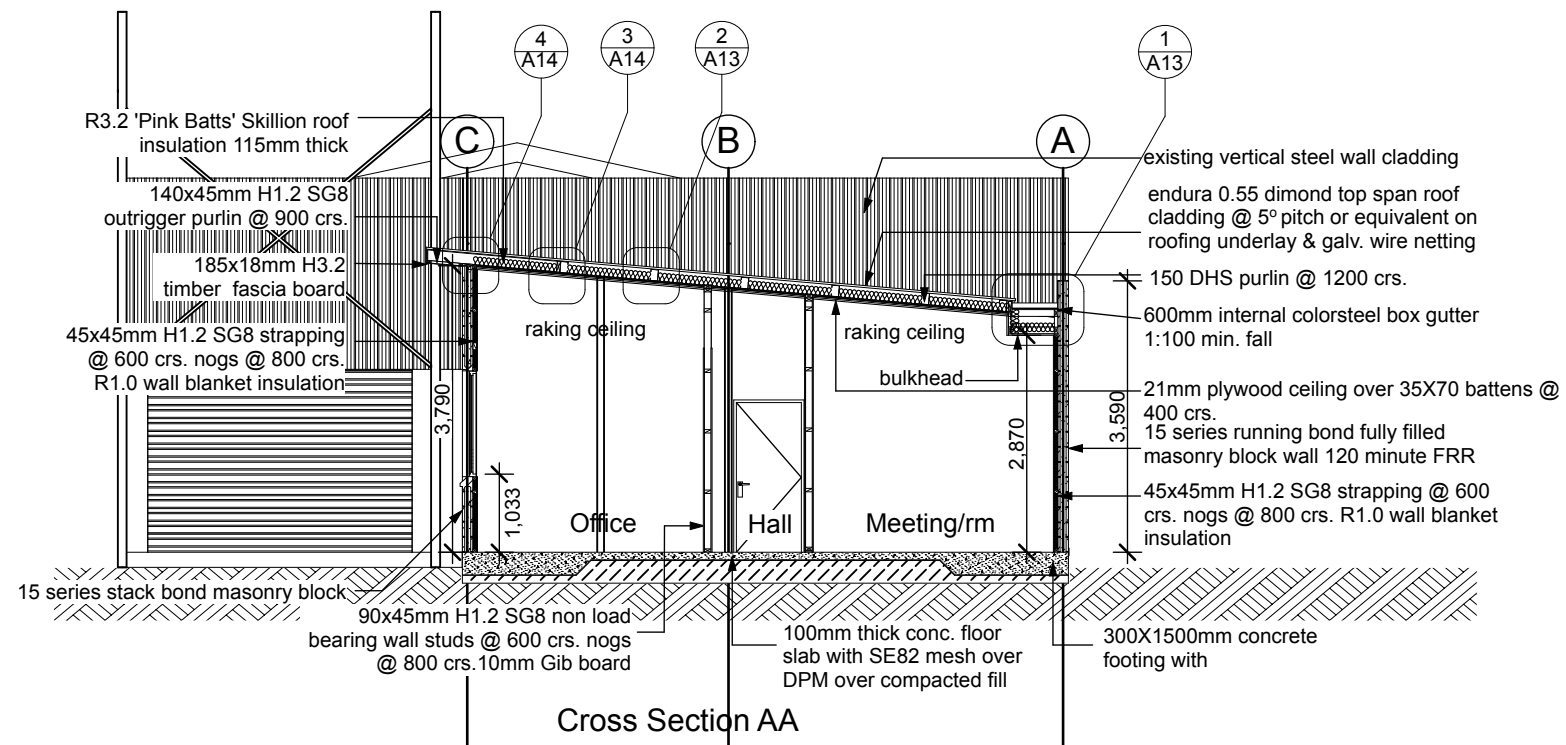
Figure 5: Example of Sign Indicating Facilities and its Direction Paragraph 5.0.2 a)



Accessible Signage



Light switch horizontally aligned to door handle 1000mm above floor level
Power outlets to be located 500mm to 1200mm above floor level



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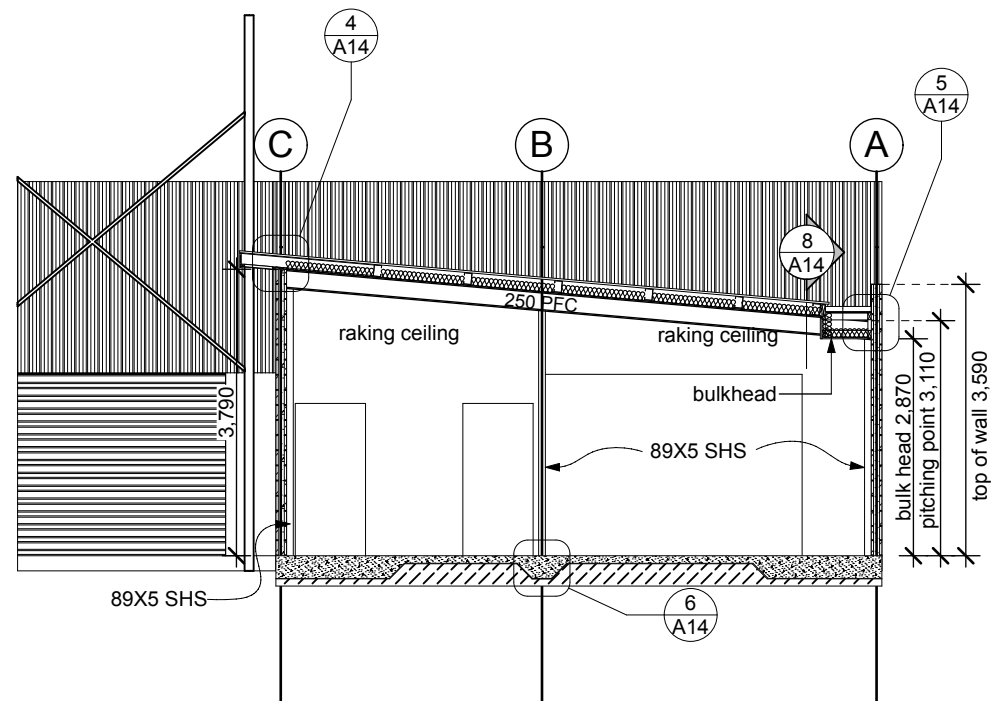
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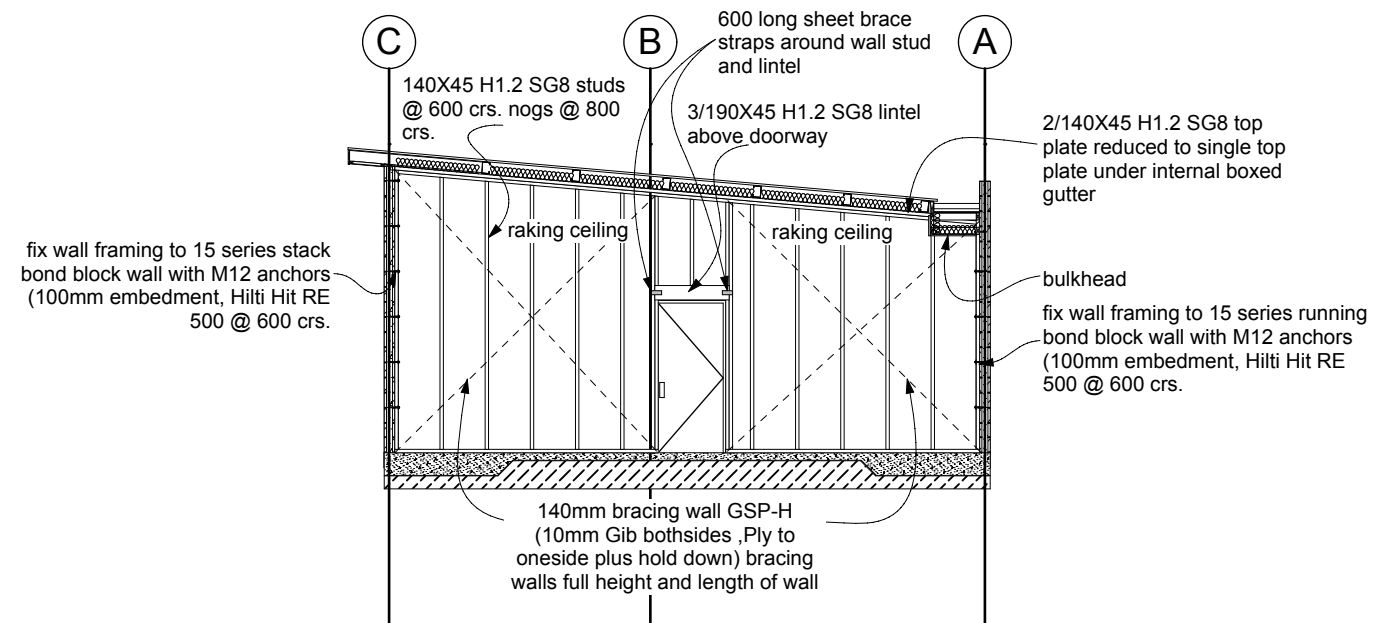
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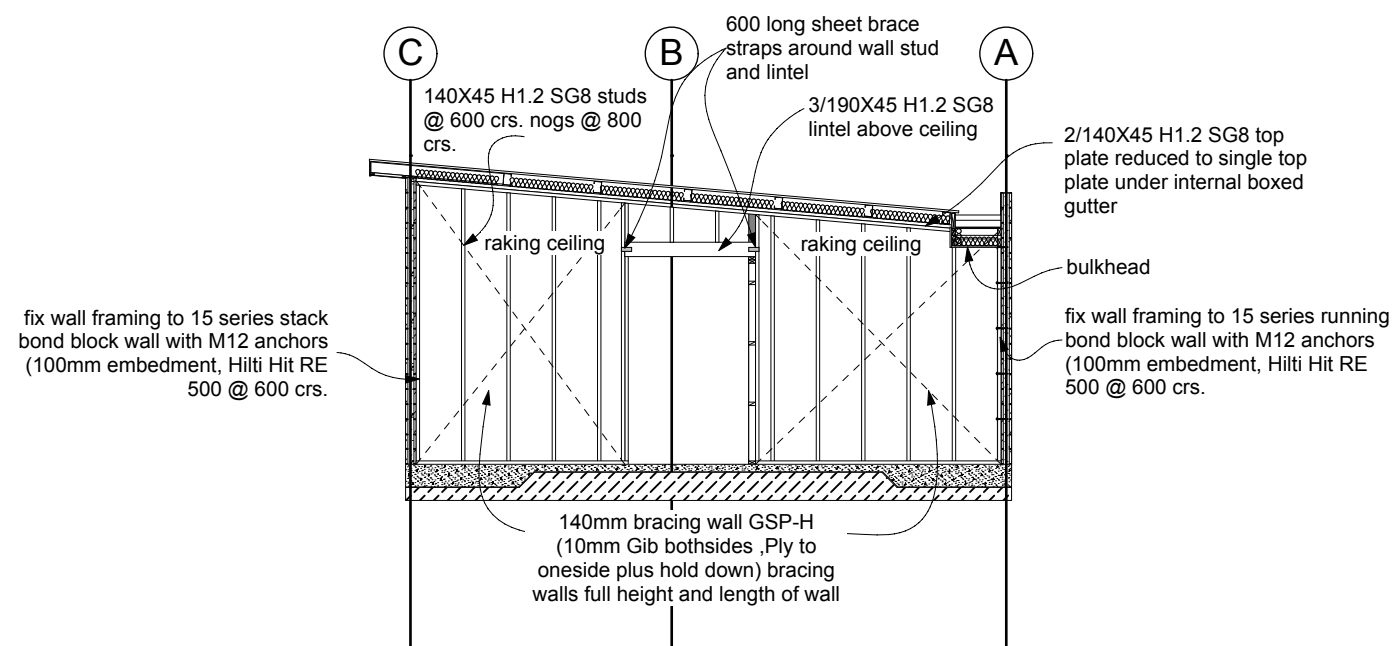
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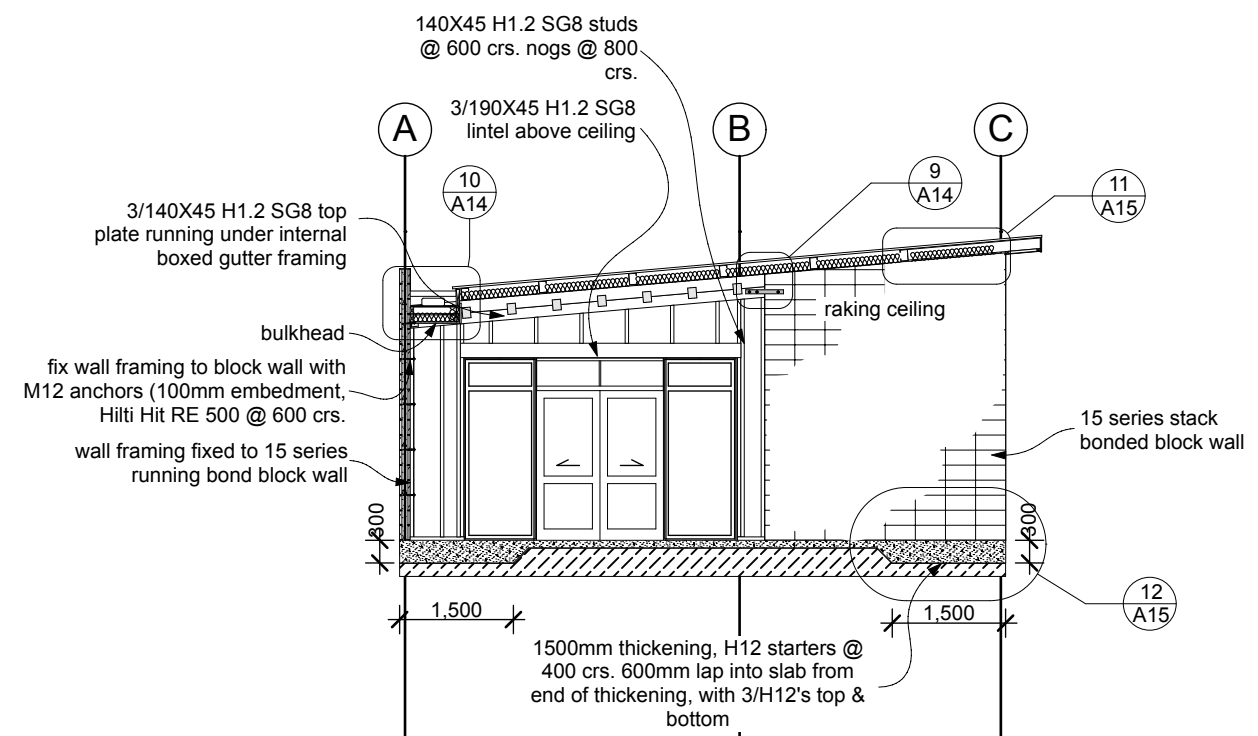
Gridline 1 Cross Section



Gridline 2 Cross Section



Gridline 3 Cross Section

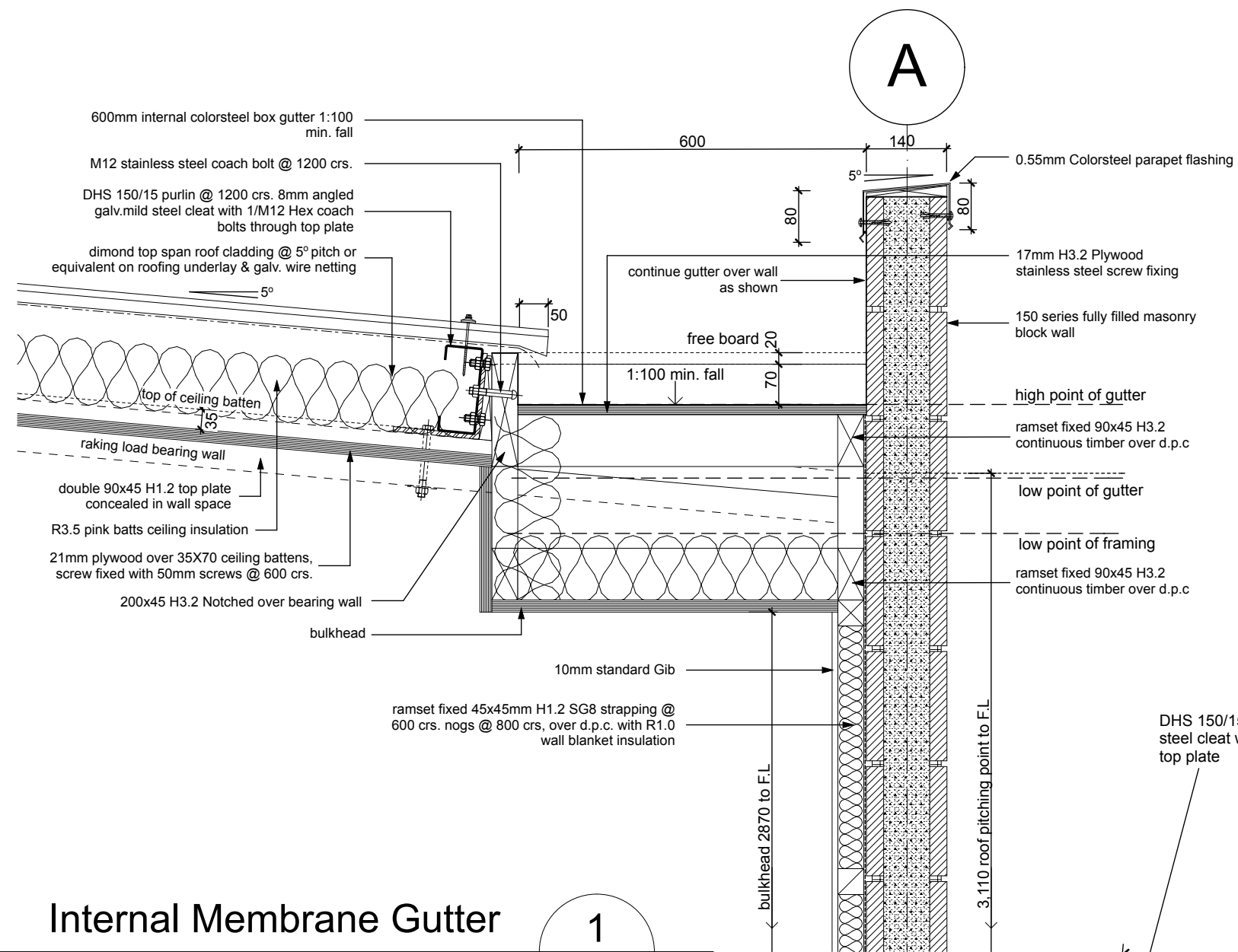


Gridline 4 Cross Section

NOTE:
15 series block walls on grids A & C

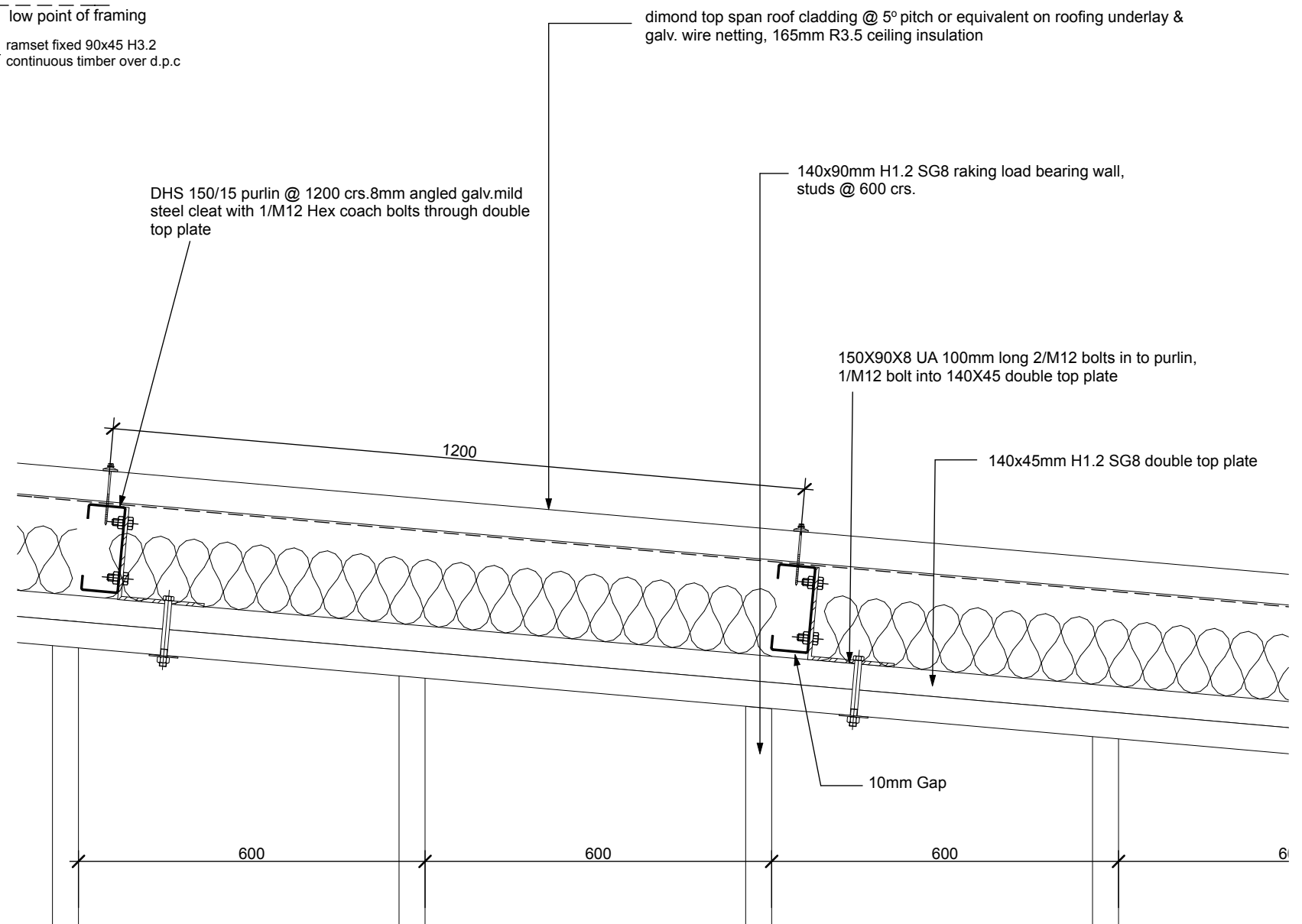
- H12's @ 400 crs. verticals
- D16's @ 200 crs. horizontal in 3 courses by roof connection.
- H12's @ 400 crs. horizontal rest of wall.

wall framing to NZS 3604:2011



Internal Membrane Gutter
Cross Sectional Detail

1
A11



150 DHS Purlin Connection
Cross Sectional Detail

2
A11



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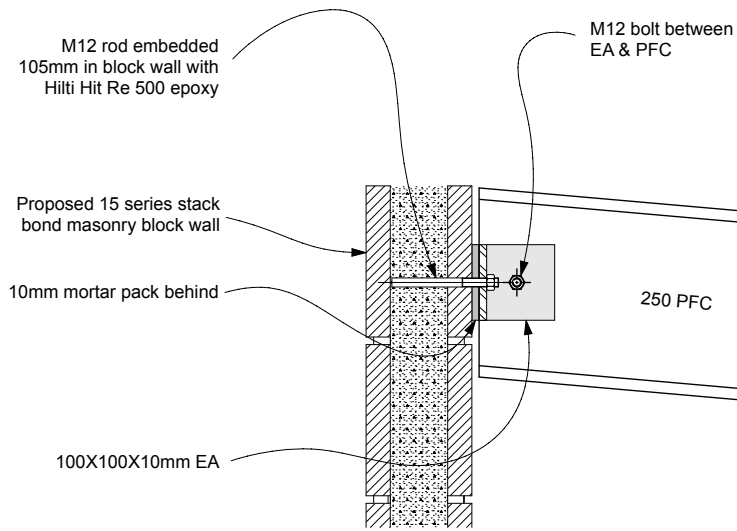
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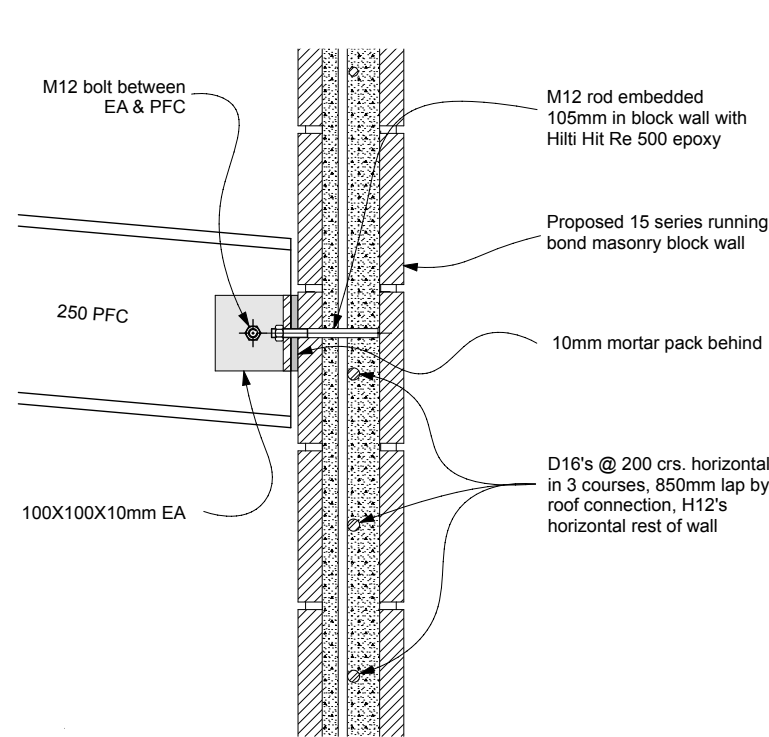
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Grids 1 & C PFC To Block Connection

Cross Sectional Detail

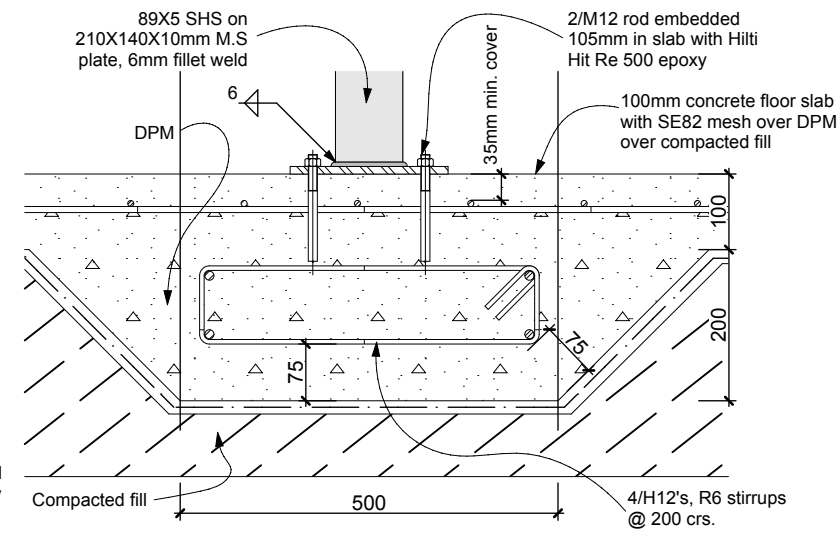
4
A12



Grids 1 & A PFC To Block Connection

Cross Sectional Detail

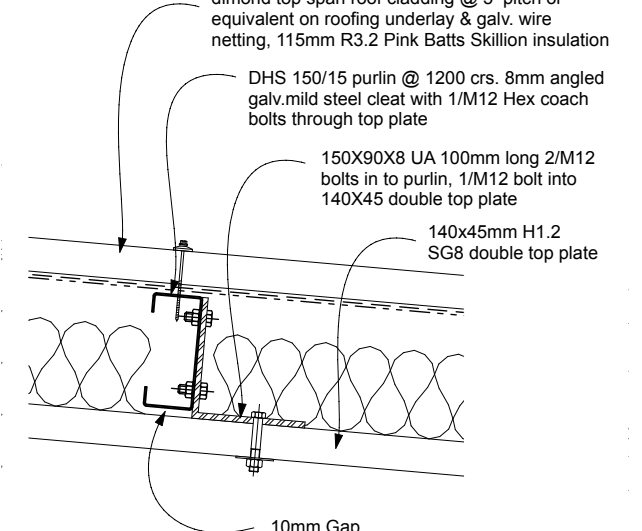
5
A12



Grids 1 & B Slab Thickening

Cross Sectional Detail

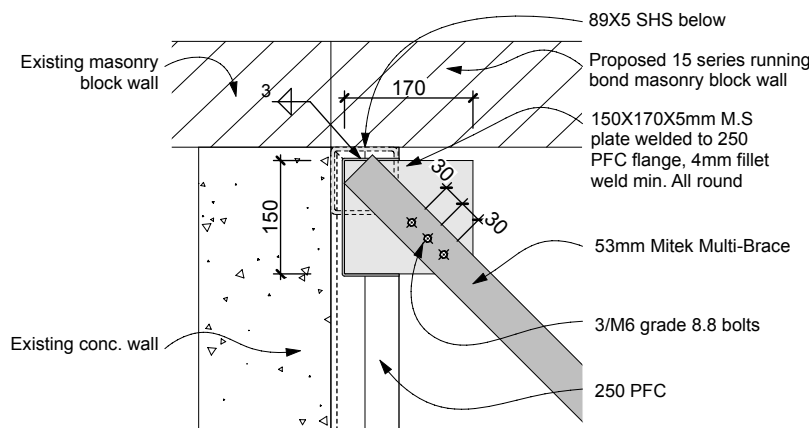
6
A12



Typical Purlin Cleat

Cross Sectional Detail

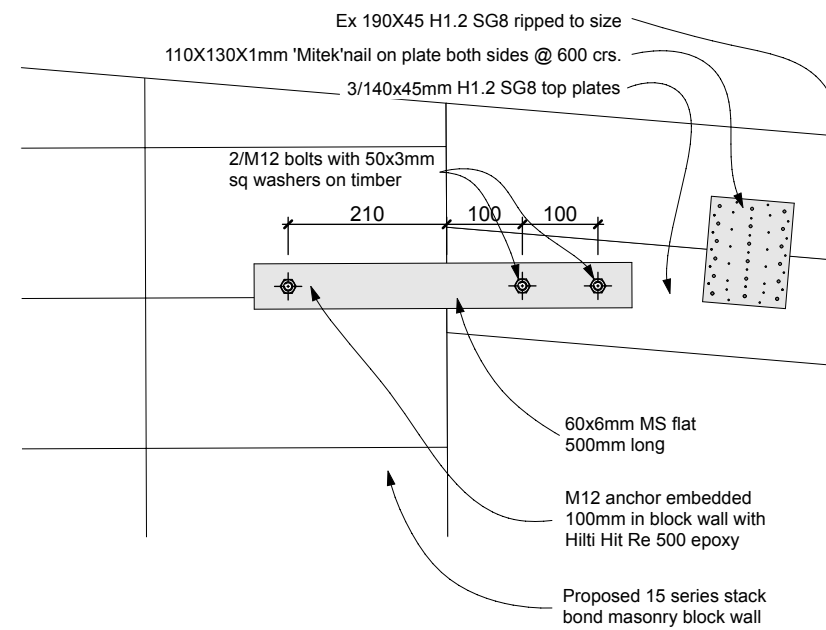
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Grids 1 Roof Brace To PFC Connection

Plan Detail

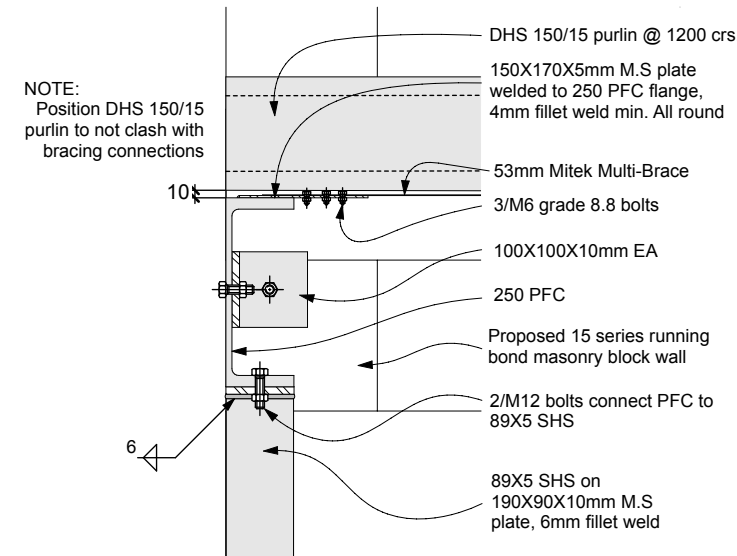
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A17



Grids 4 Wall Tie Connection

Section Detail

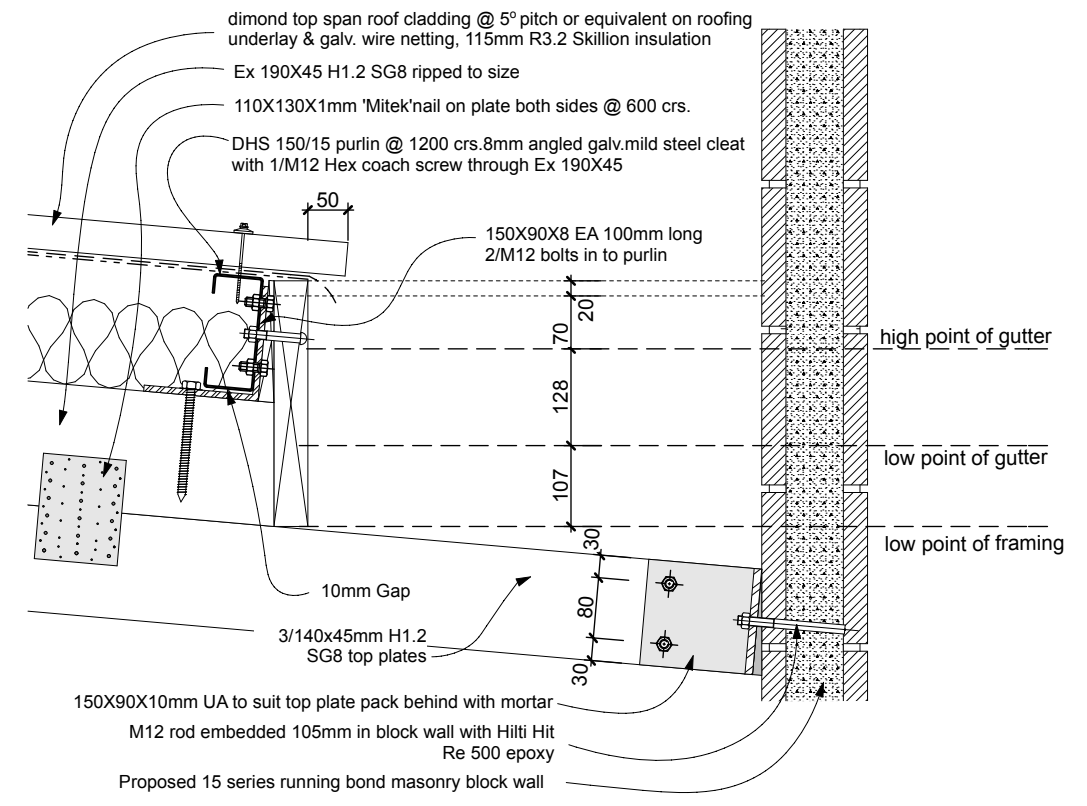
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A12



Grids 1 Roof Brace To PFC Connection

Section Detail

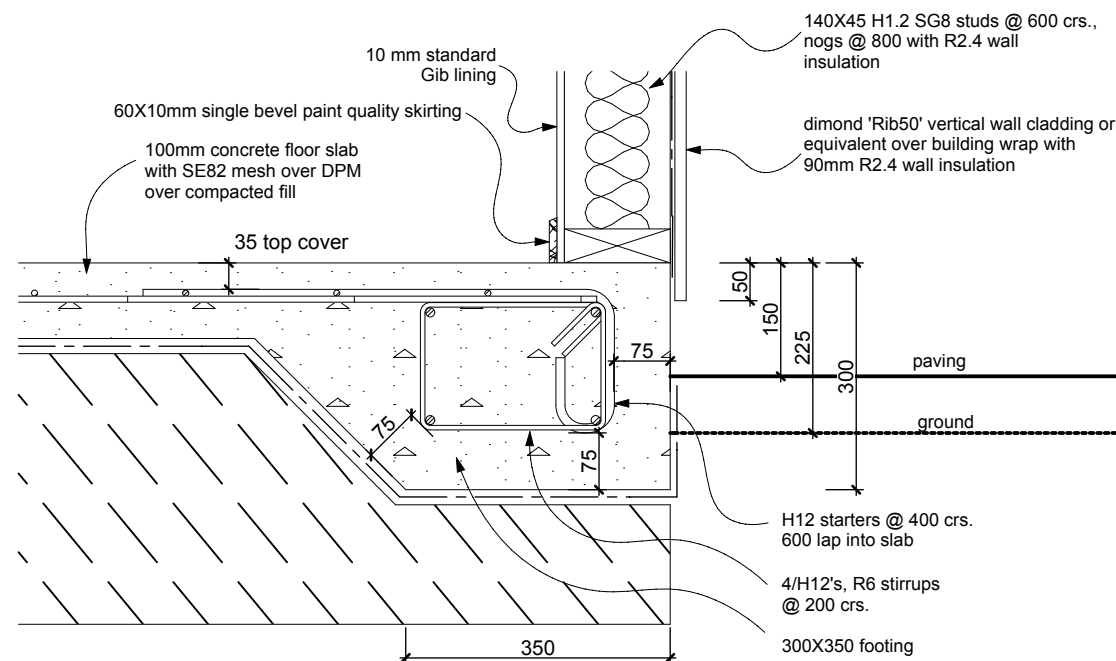
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A12



Grids 4 Wall Tie Connection

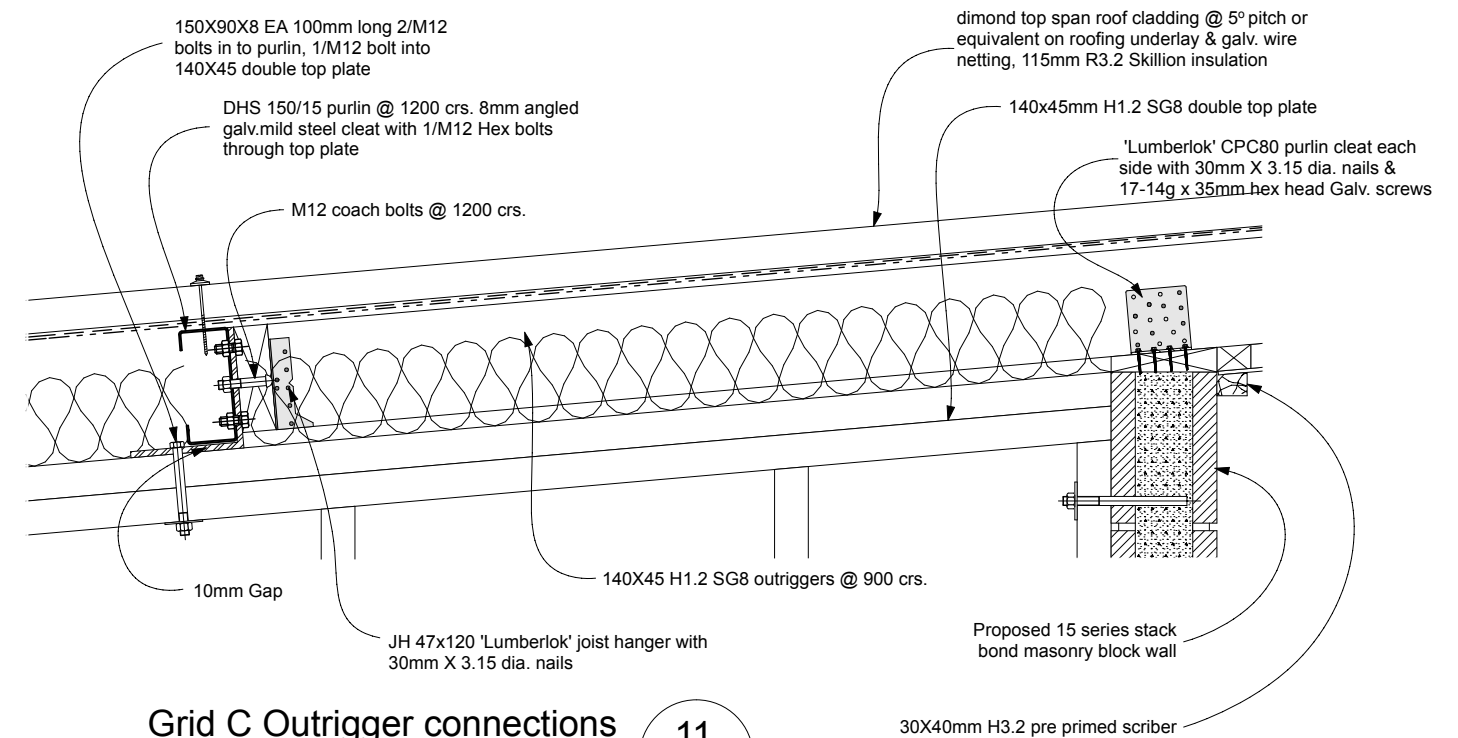
Section Detail

10
A12



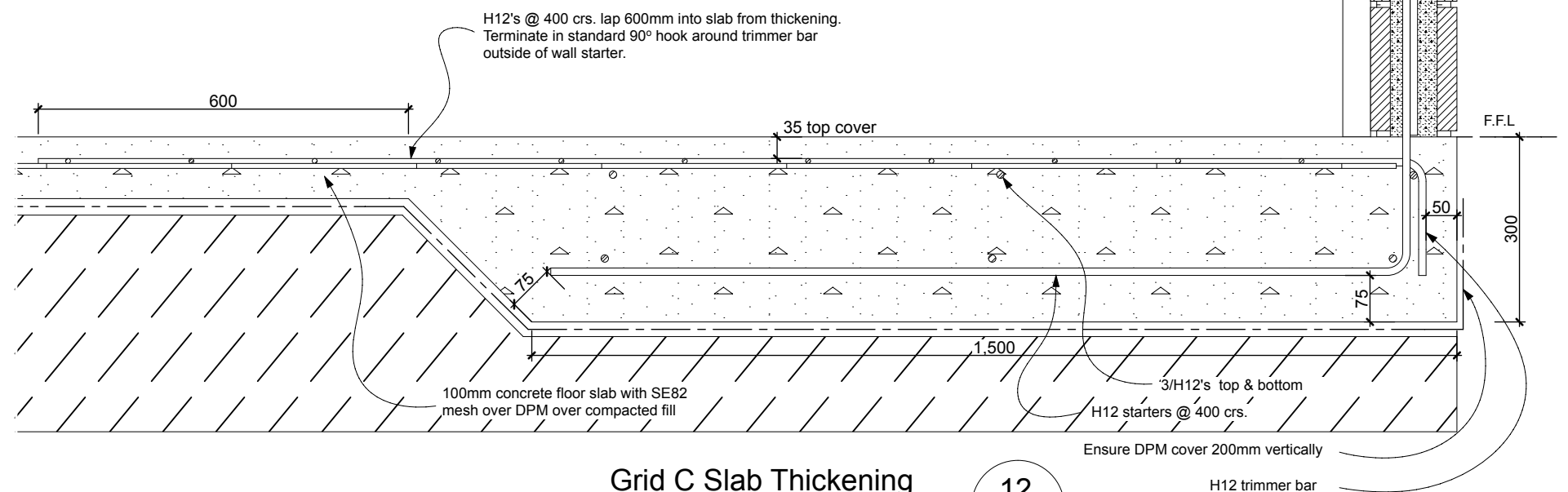
Grid 4 Slab Foundation
Section Detail

13
A9



Grid C Outrigger connections
Section Detail

11
A12



Grid C Slab Thickening
Section Detail

12
A12



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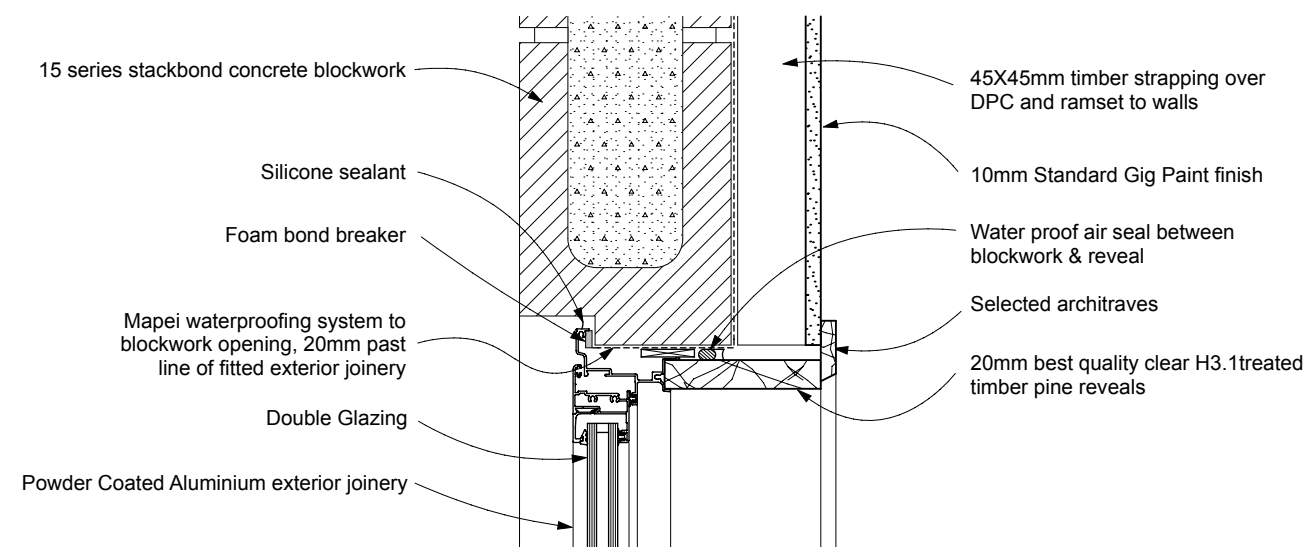
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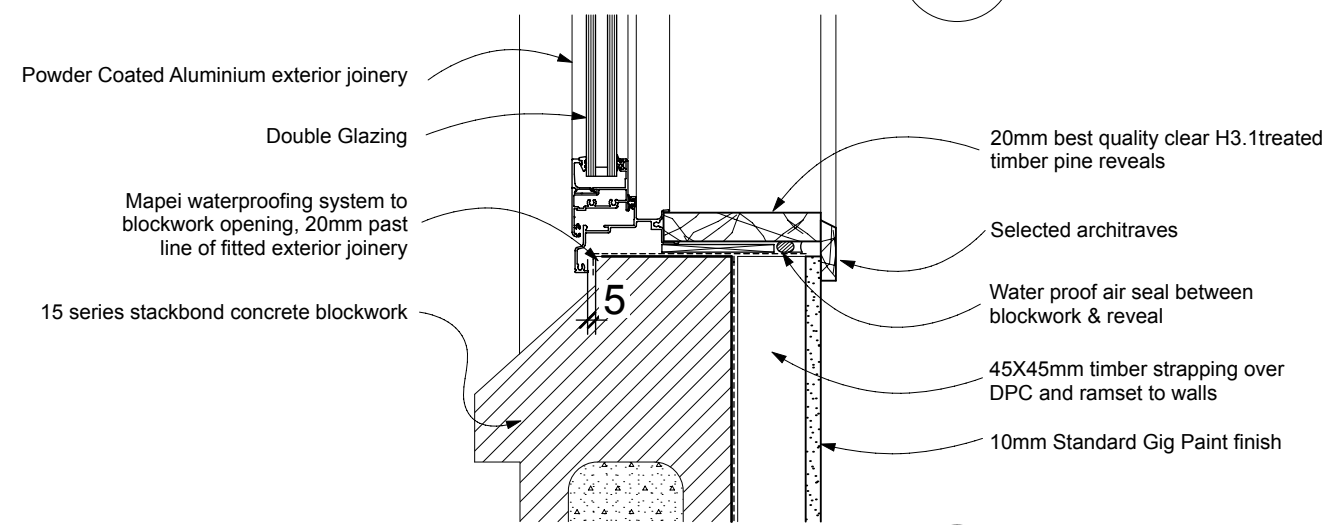
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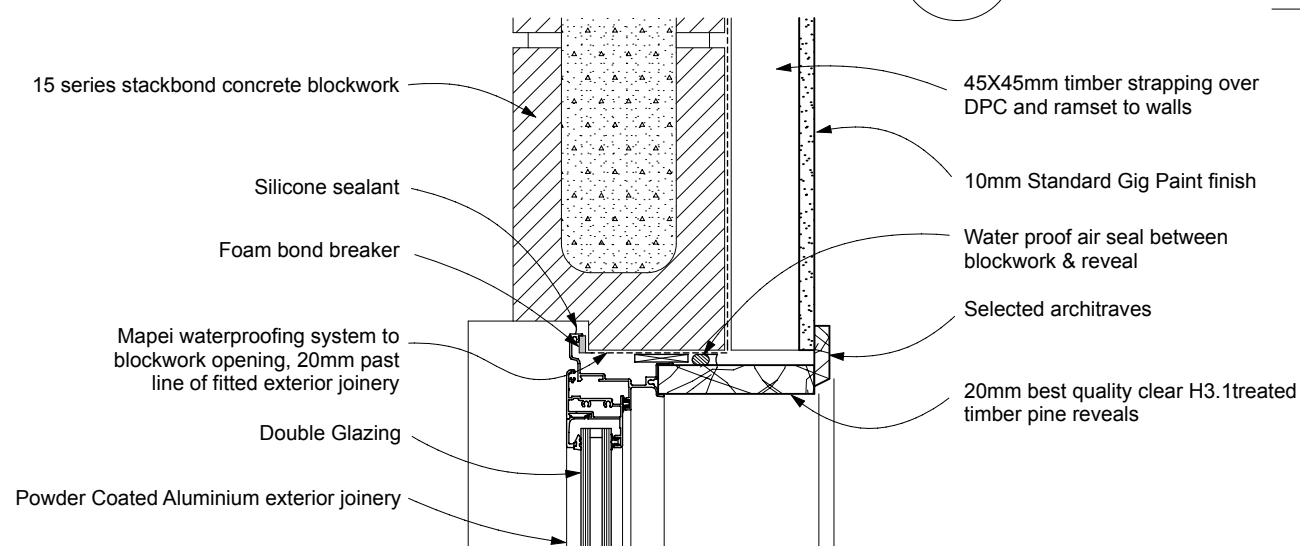
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15 Series Block
Head Detail
14
A8

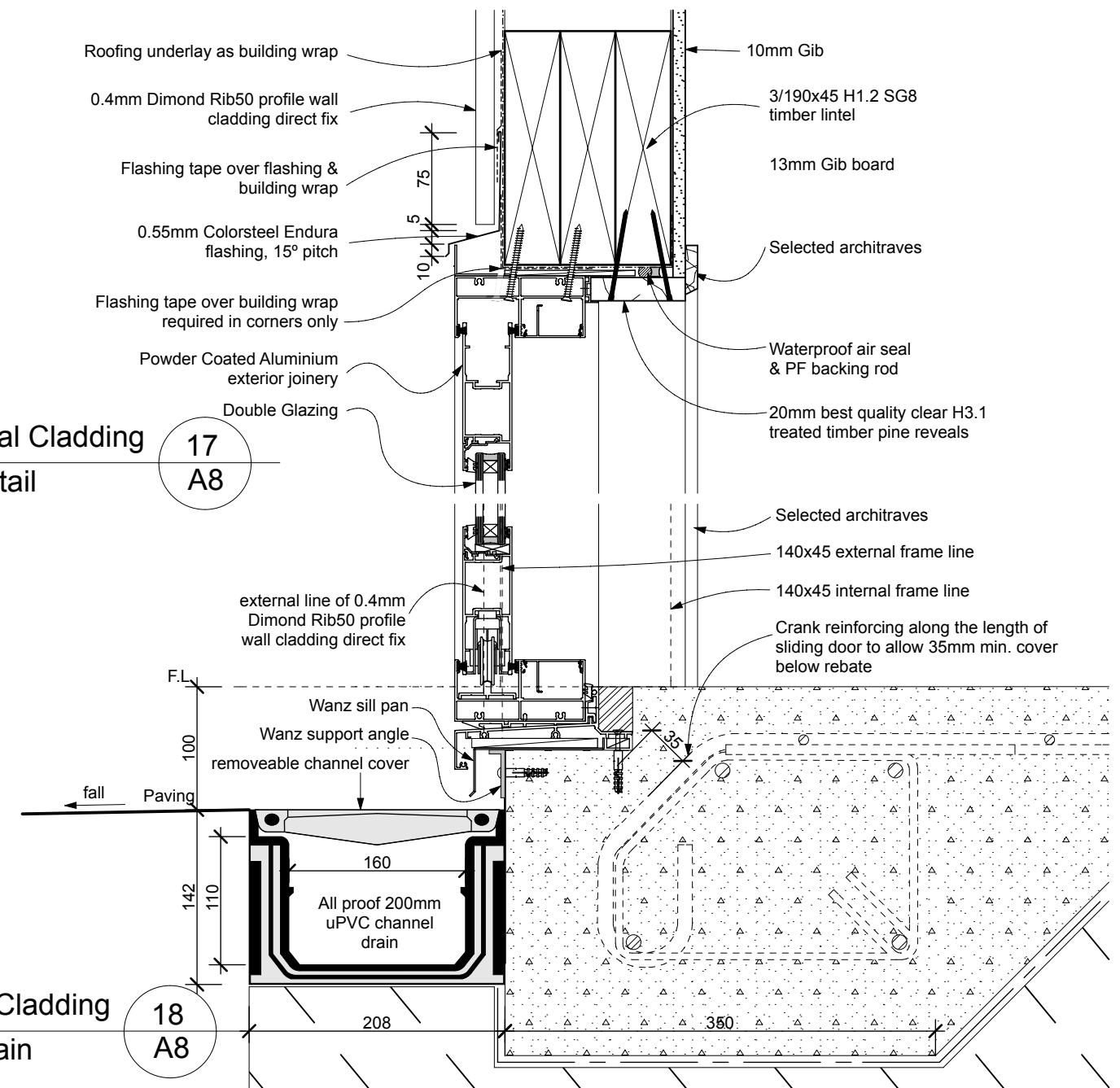


15 Series Block
Sill Detail
15
A8



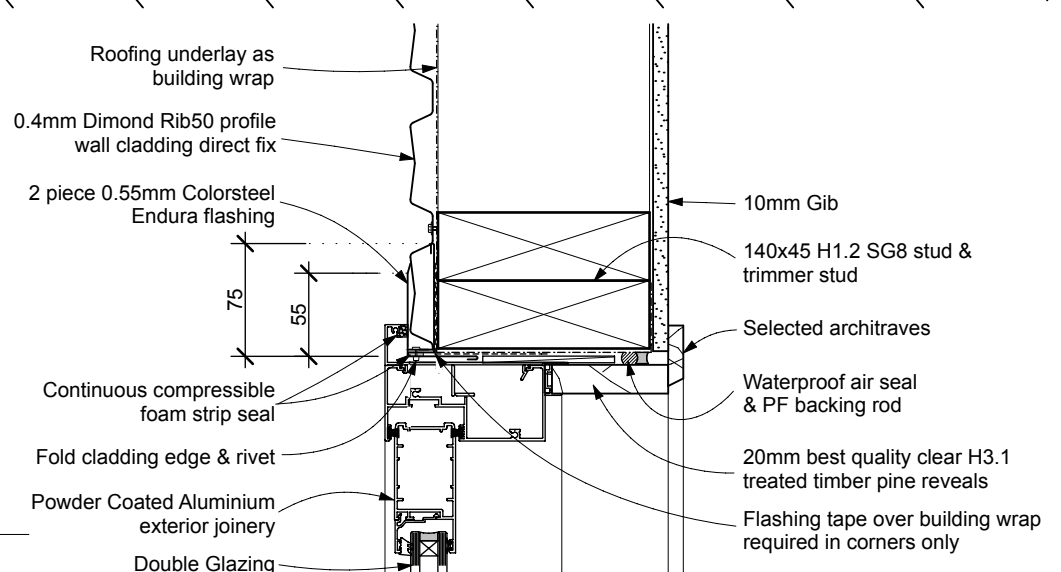
15 Series Block
Jamb Detail
16
A8

Dimond Rib50 Metal Cladding
Head Detail
17
A8



Dimond Rib50 Metal Cladding
Sill & Strip Drain Detail
18
A8

Dimond Rib50 Metal Cladding
Jamb Detail
19
A8



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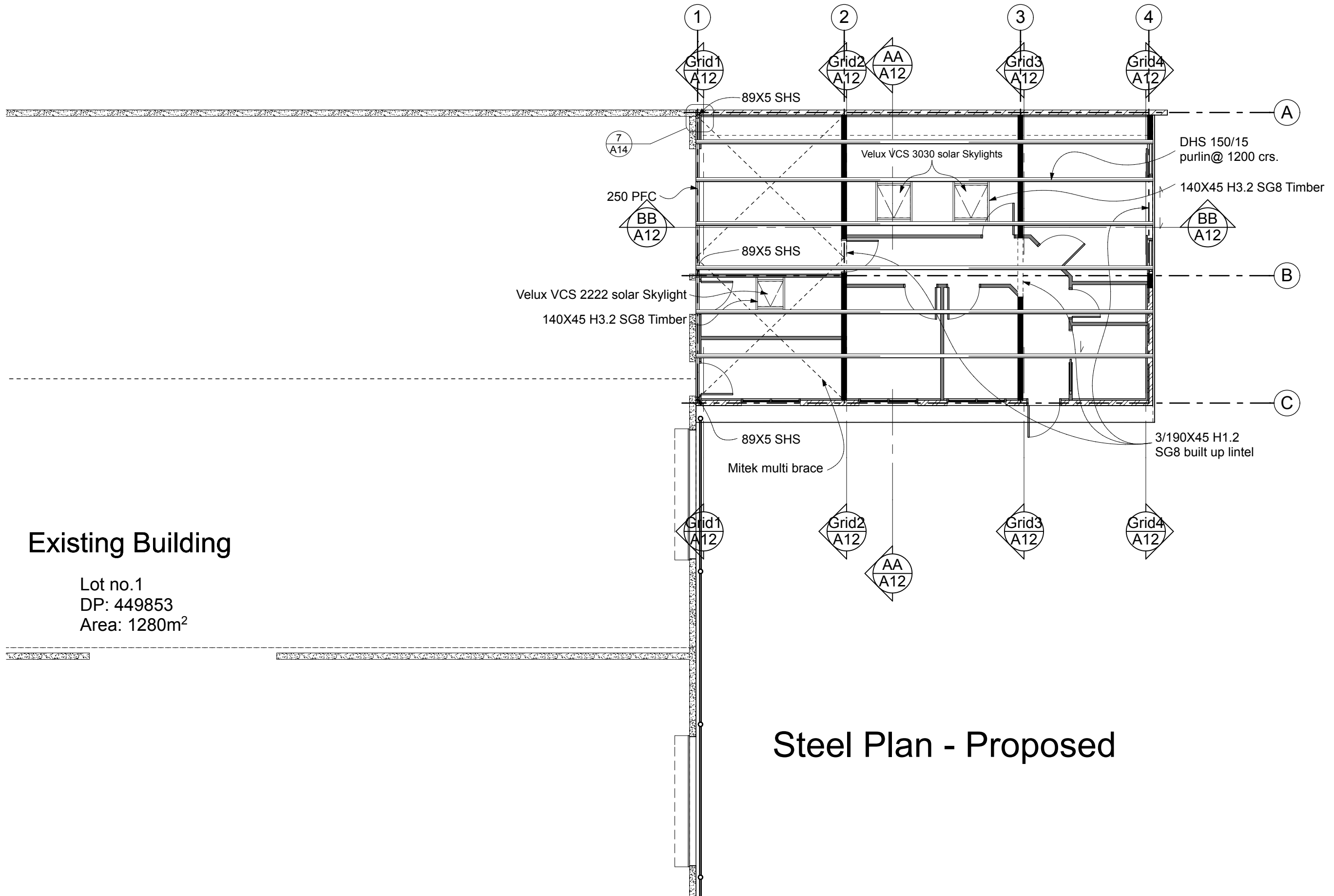
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Steel Plan - Proposed



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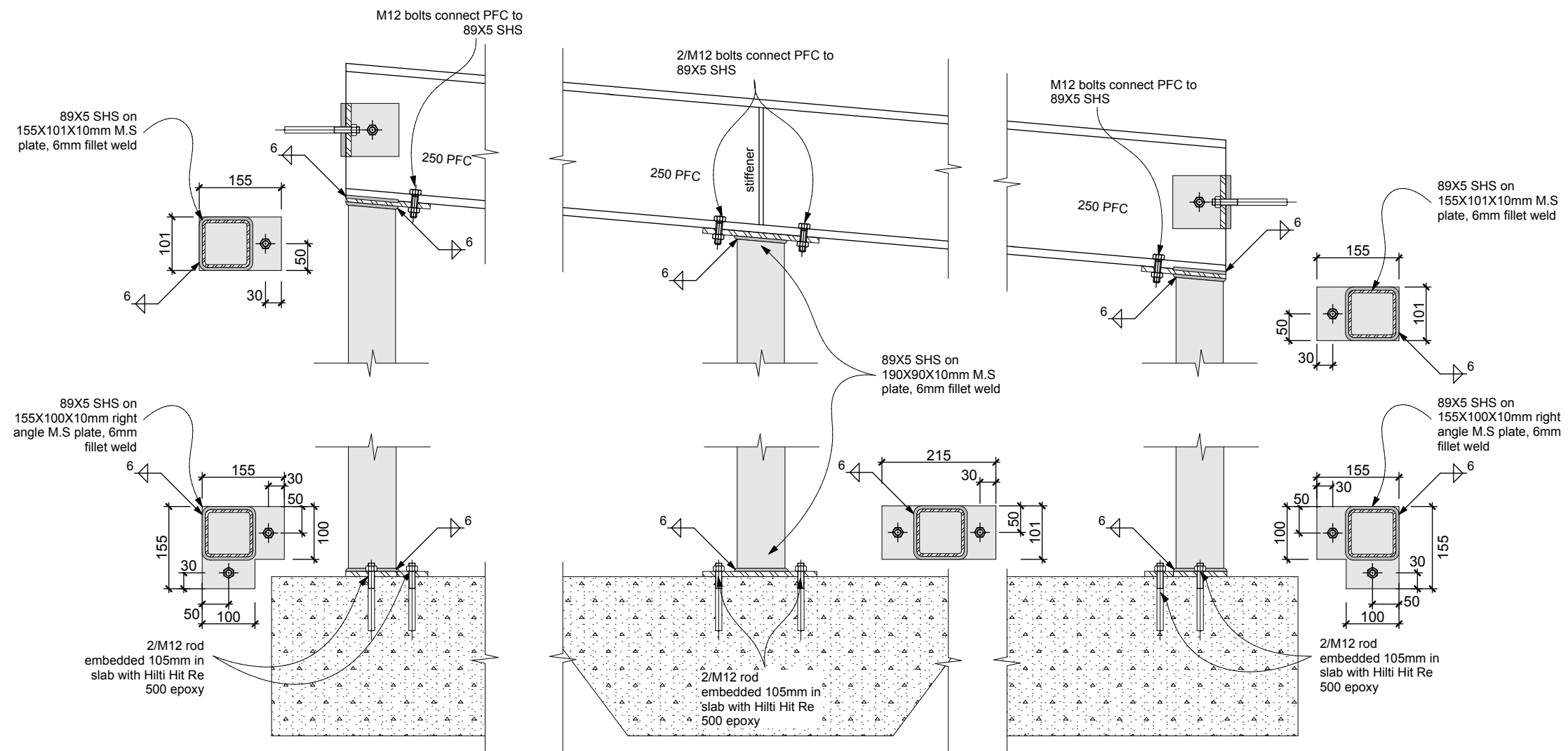
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Gridline 1 Steel Details



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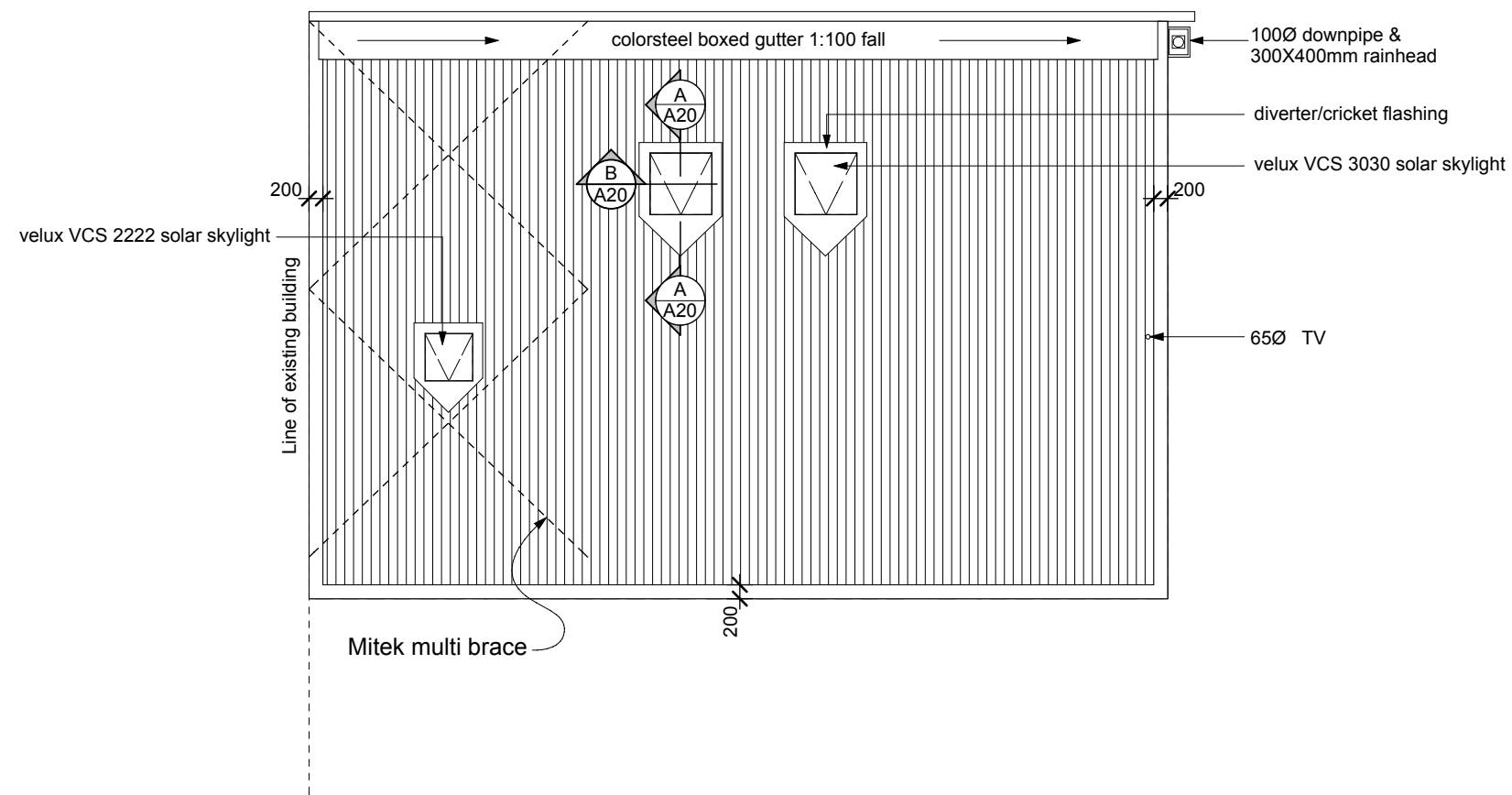
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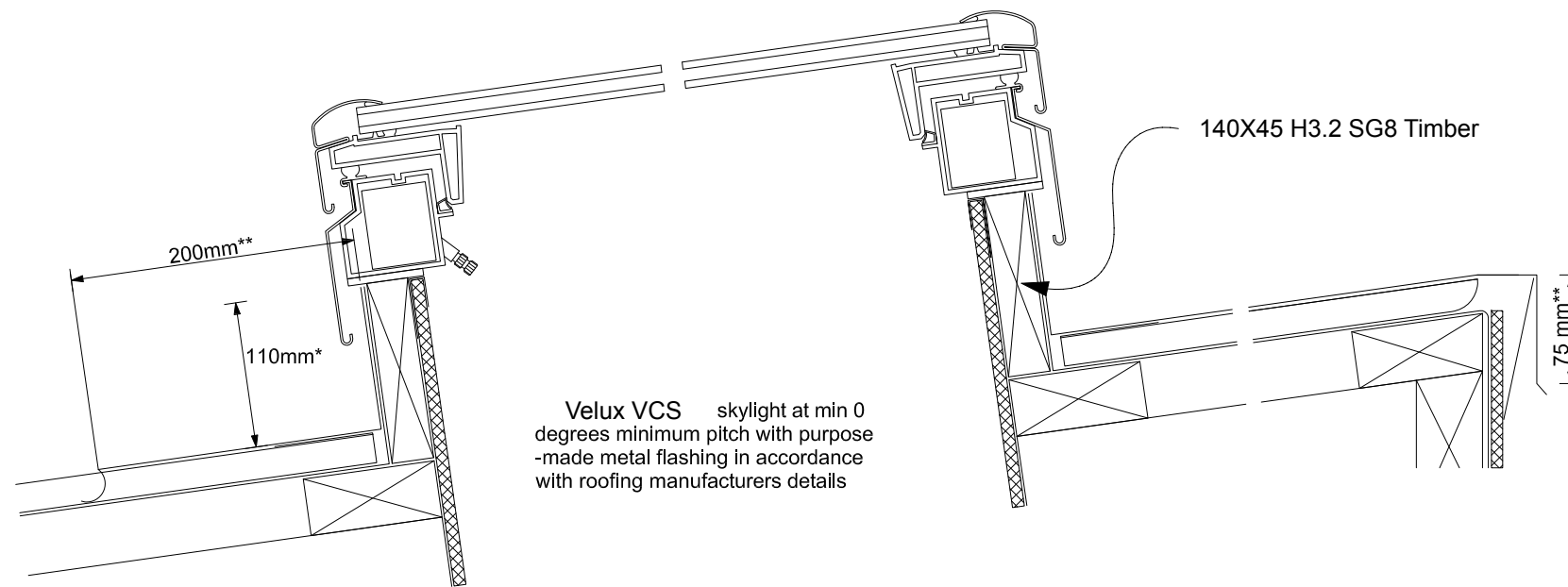
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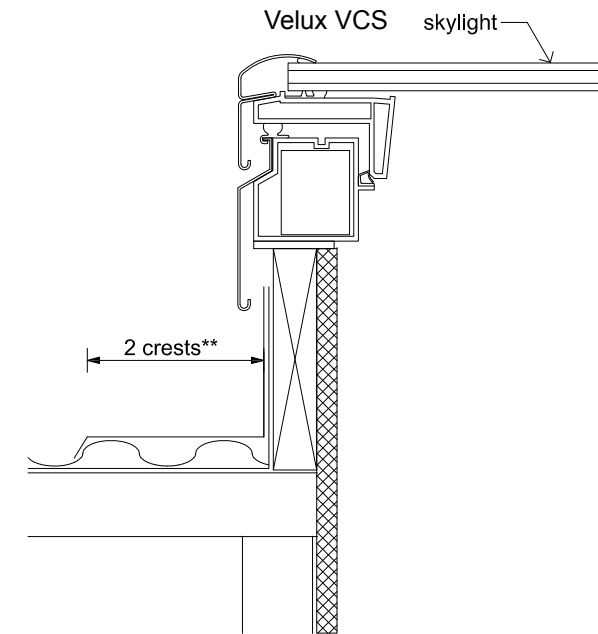
A19

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Velux VCS Solar Skylight
Cross Sectional Detail

A
A19



Velux VCS Solar Skylight
Cross Sectional Detail

B
A19

PRODUCT DIMENSIONS					
METRIC UNITS (MILLIMETERS)					
SIZE	OUTSIDE CURB WIDTH	SKYLIGHT WIDTH	OUTSIDE CURB HEIGHT	SKYLIGHT HEIGHT	DAYLIGHT AREA (SQ. M)
2222	648	688	648	688	0.24
2246	648	688	1257	1297.5	0.55
3030	851	891.1	851	891.1	0.49
4046	1257	1297.5	1257	1297.5	1.22



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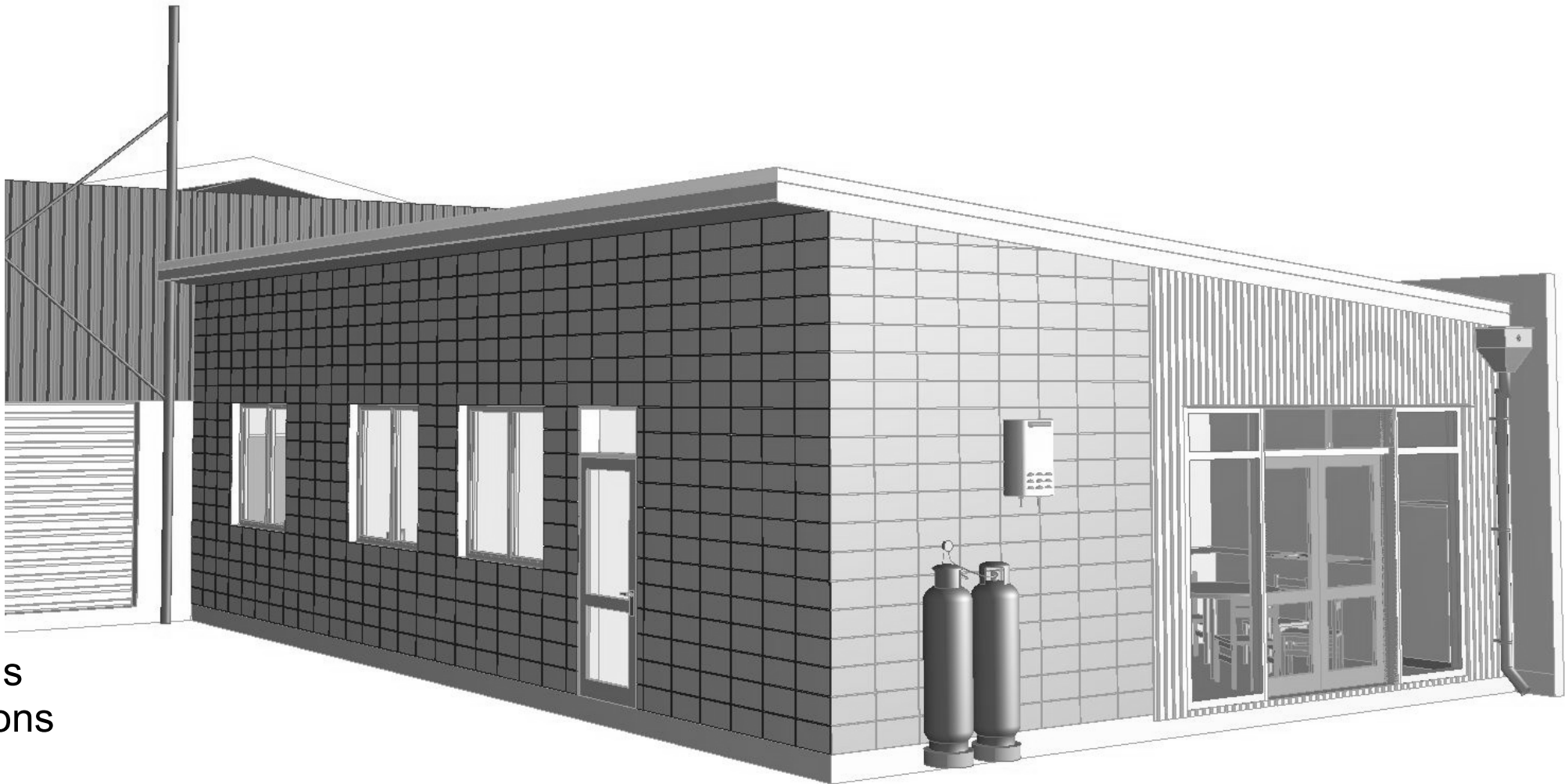
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Sheet	Index	Drawing
A1	1	Site Plan Existing
A2	1	Site Plan Proposed
A4	1	Plumbing Plan
A5	1	Floor Plan Existing
A6	1	Floor Plan Proposed
A7	1	Framing Plan
A8	1	Elevations
A9	1	Foundation Plan
A10	1	Accessible Toilet
A11	1	Architectural Sections
A12	1	Gridline Cross Sections
A13	1	Architectural Details
A14	1	Architectural Details
A15	1	Architectural Details
A16	1	Joinery Details
A17	1	Steel Work Plan
A18	1	Gridline 1 Steel details
A19	1	Roof Plan
A20	1	Skylight Details





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Notes

Sediment and runoff control management plan shall be designed and installed by the licensed building practitioner prior to, or, during the siteworks for the project. The sediment controls shall be installed in accordance with the requirements of Christchurch City Council's City Plan and Environment Canterbury Regional Council Erosion and Sediment Control Guide.



Notes

Wind	Low
Exposure Zone	C
Earthquake Zone	2
Snow Load	N4 -1kPa



Notes

Sediment and runoff control management plan shall be designed and installed by the licensed building practitioner prior to, or, during the siteworks for the project. The sediment controls shall be installed in accordance with the requirements of Christchurch City Council's City Plan and Environment Canterbury Regional Council Erosion and Sediment Control Guide.

Car parking calculations:

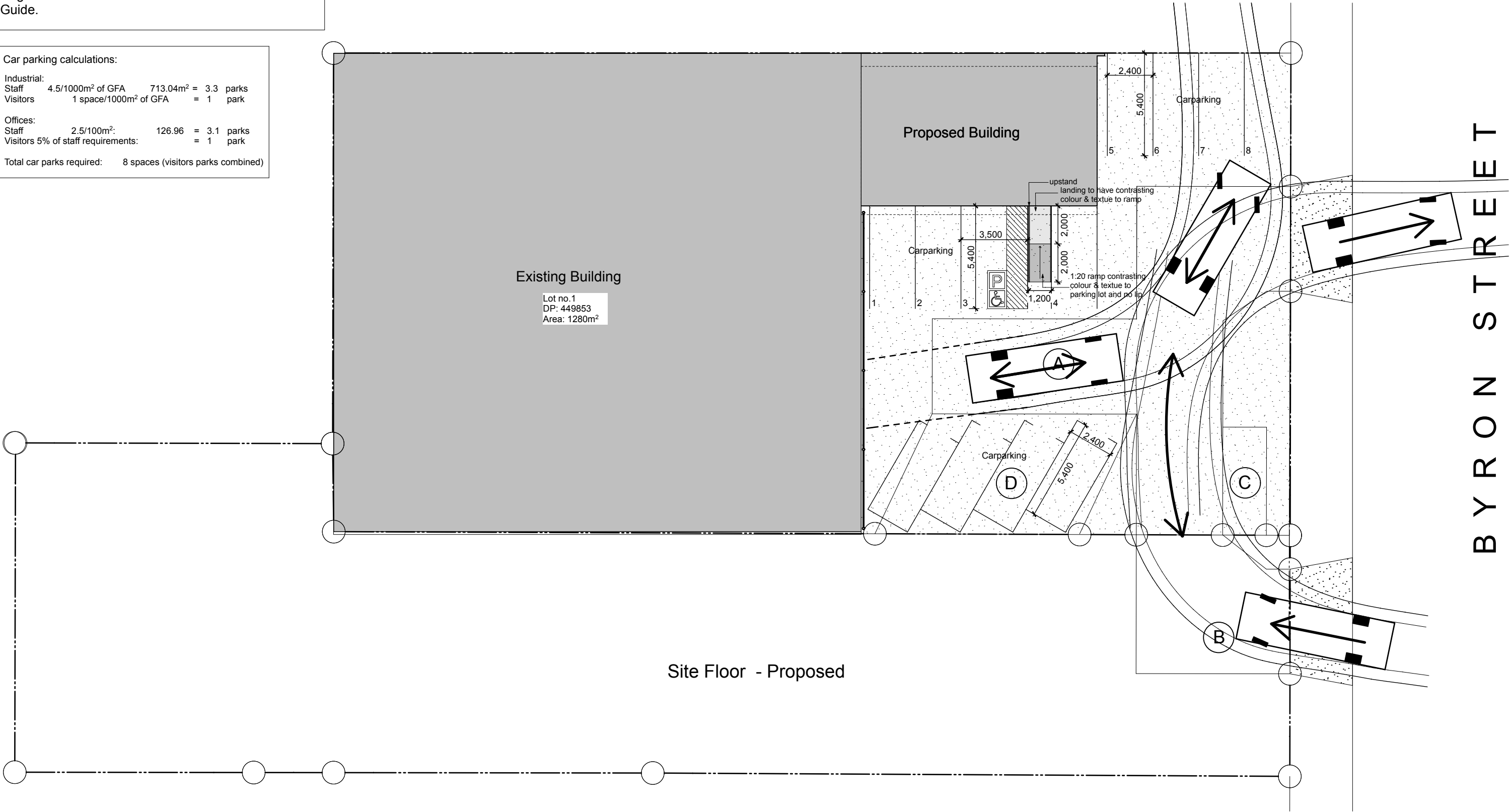
Industrial:
Staff 4.5/1000m² of GFA 713.04m² = 3.3 parks
Visitors 1 space/1000m² of GFA = 1 park

Offices:
Staff 2.5/100m²: 126.96 = 3.1 parks
Visitors 5% of staff requirements: = 1 park

Total car parks required: 8 spaces (visitors parks combined)

Notes

Wind Low
Exposure Zone C
Earthquake Zone 2
Snow Load N4 -1kPa



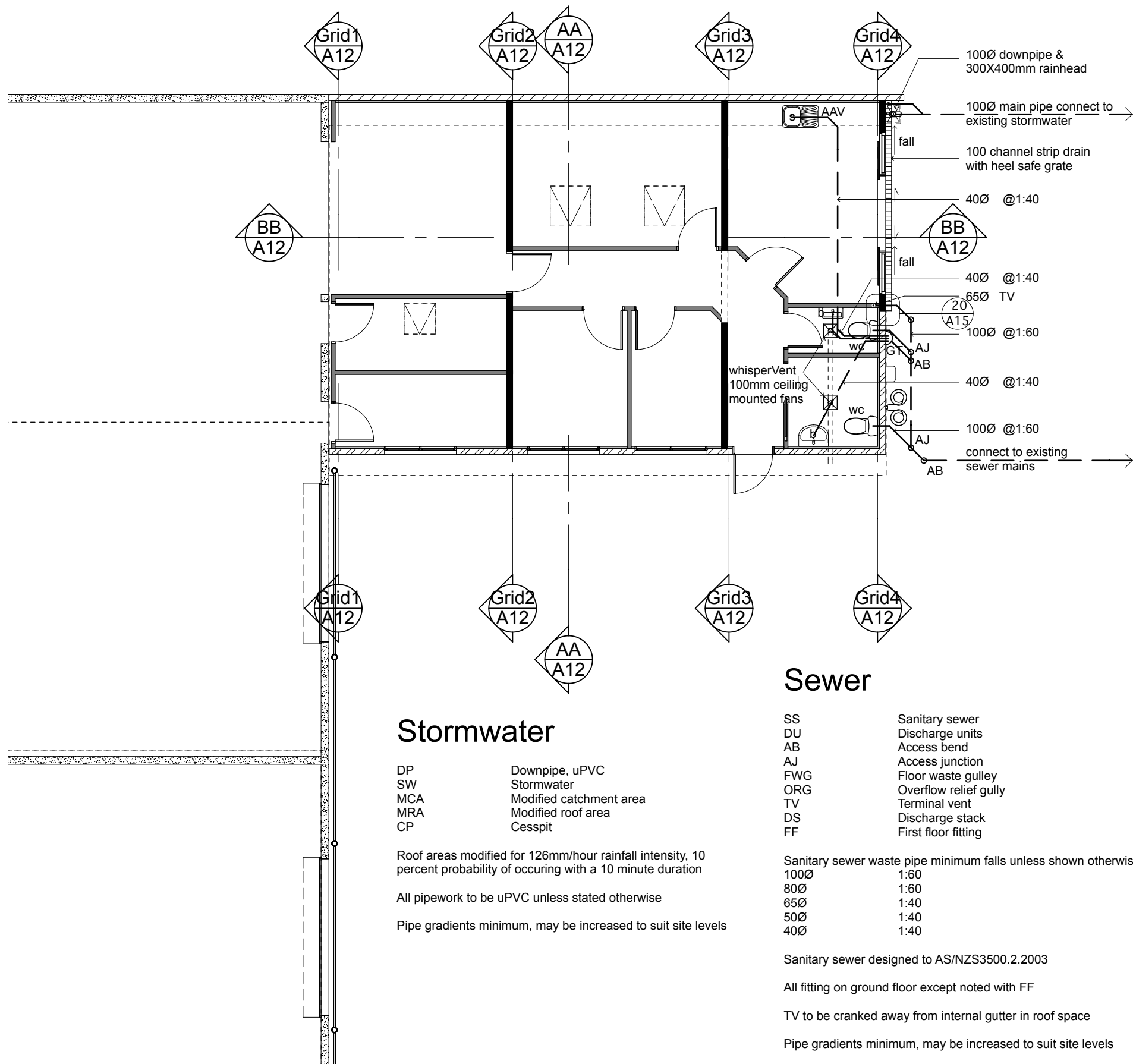


Figure 16: Cross-sectional Area of Internal Gutter
 Paragraphs 5.1.2 and 5.1.3

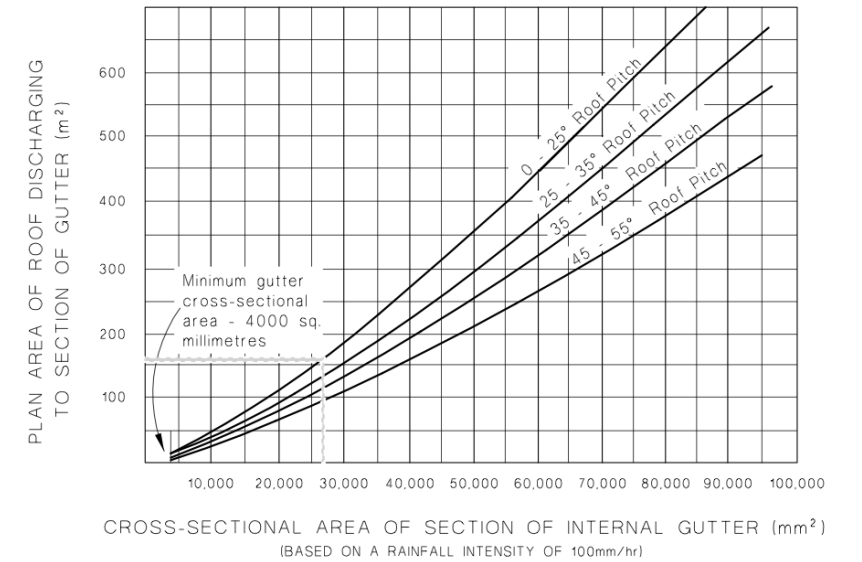


Table 5: Downpipe Sizes for Given Roof Pitch and Area
 Paragraph 4.2.1

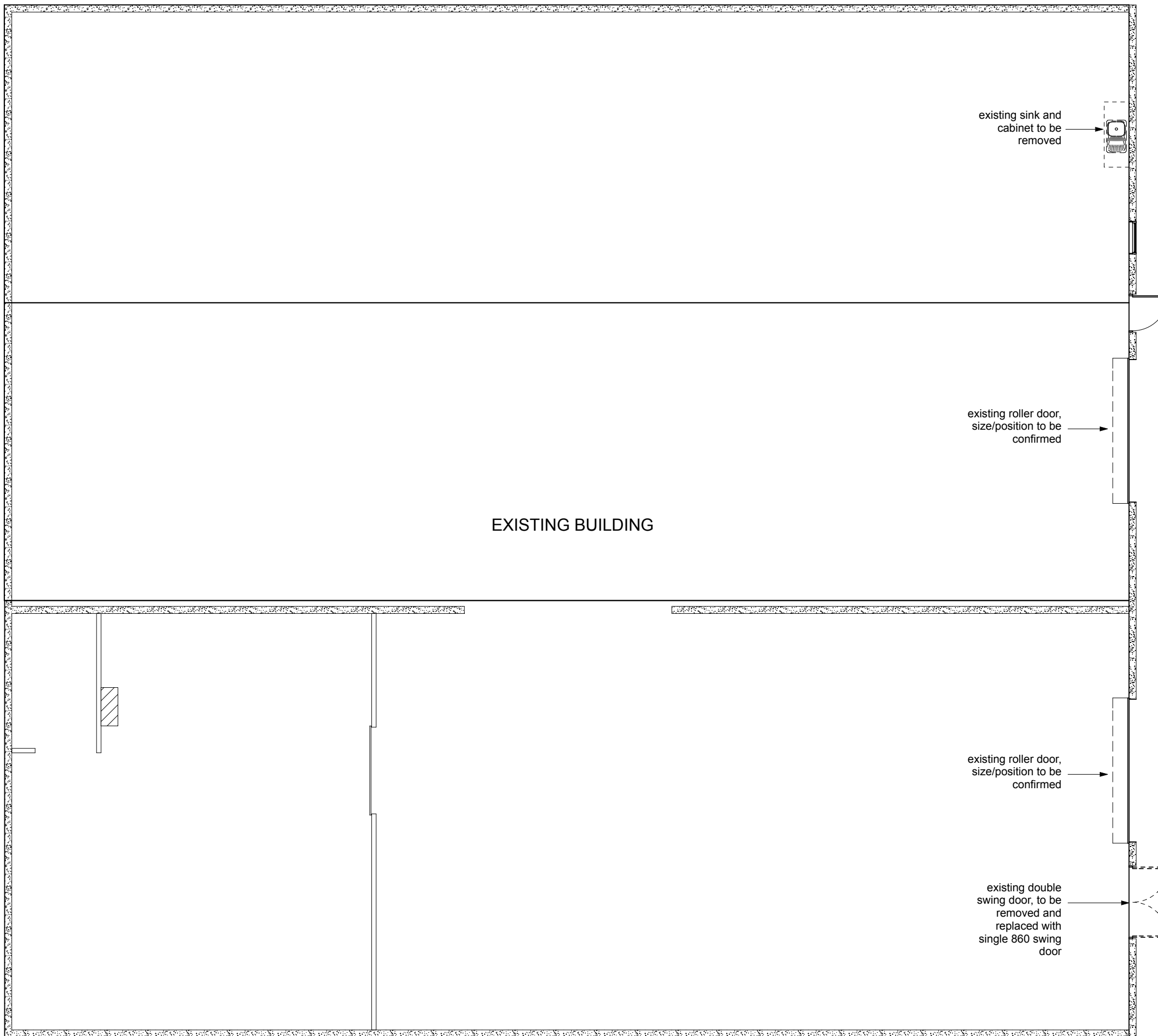
Downpipe size (mm) (minimum internal sizes)	Roof pitch			
	0-25°	25-35°	35-45°	45-55°
Plan area of roof served by the downpipe (m²)				
63 mm diameter	60	50	40	35
74 mm diameter	85	70	60	50
100 mm diameter	155	130	110	90
150 mm diameter	350	290	250	200
65 x 50 rectangular	60	50	40	35
100 x 50 rectangular	100	80	70	60
75 x 75 rectangular	110	90	80	65
100 x 75 rectangular	150	120	105	90

Roof & Gutter Area
 105.2331 m²

Stormwater

Roof area + Gutter area = 105.23m²
 Rain intensity 50
 MRA factor 50/100=.5
 $105.23 \times .5 = 52.61\text{m}^2$
 MRA= 52.61m²

Cross sectional gutter area required = 26,000mm²
 Cross sectional gutter area achieved 132x600 = 79,200mm²
 Down pipe 100Ø



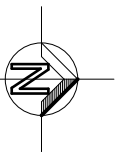
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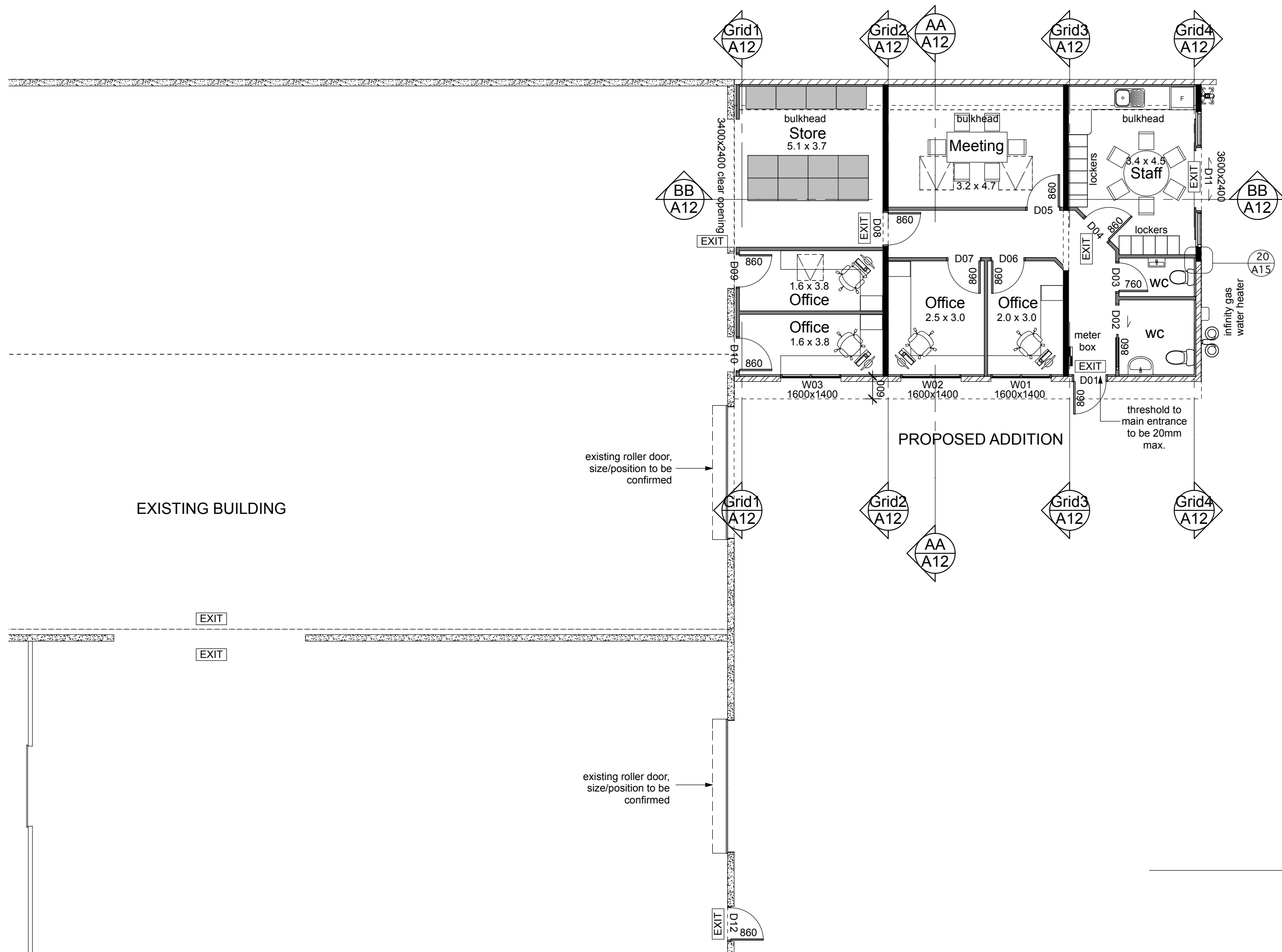
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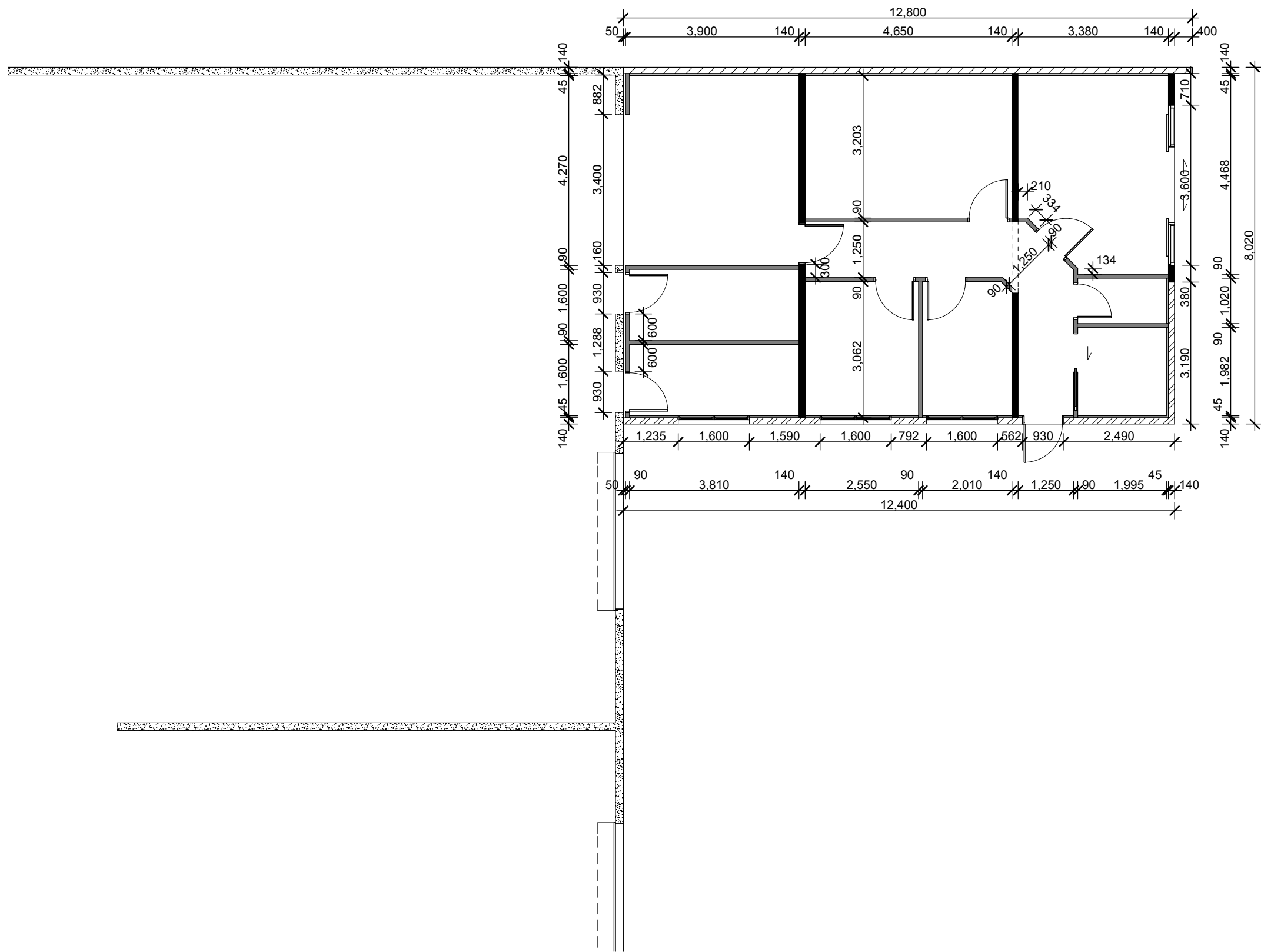
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Drawing: Floor Plan - Existing
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Issue: 1
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A5
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Notes

- 15 series stack bond fully filled masonry block wall
- 15 series running bond fully filled masonry block wall
- 140x45 H1.2 SG8 timber framed full height & raking load bearing walls with studs @ 600cc & nogs @ 800cc to
- 90X45 H1.2 SG8 timber framed 2700mm high non-load bearing walls with studs @ 600 crs & nogs @ 800crs
- 45X45 H1.2 timber strapping to exterior masonry walls
- Existing Conc. wall
- 10mm Gib board to walls
- 10mm aqua Line Gib to WC and Accessible WC walls
- 21mm plywood over 70X35 H1.2 SG8 ceiling battens, fixed with 50mm screws @ 600 crs.
- Accessible WC to comply with NZBC G1/AS1
- Accessible WC & WC require Install Simx WhisperVent 100 ceiling fan providing 63l/s, 225m³/hr 100Ø duct DCT0409, weatherproof cowl, Duct to extend through ceiling pace to outside through soffit lining.
- Accessible sign to door
- All timber framed walls to comply with NZS3604:2011
- All timber framing to be SG8 H1.2 treated unless stated otherwise



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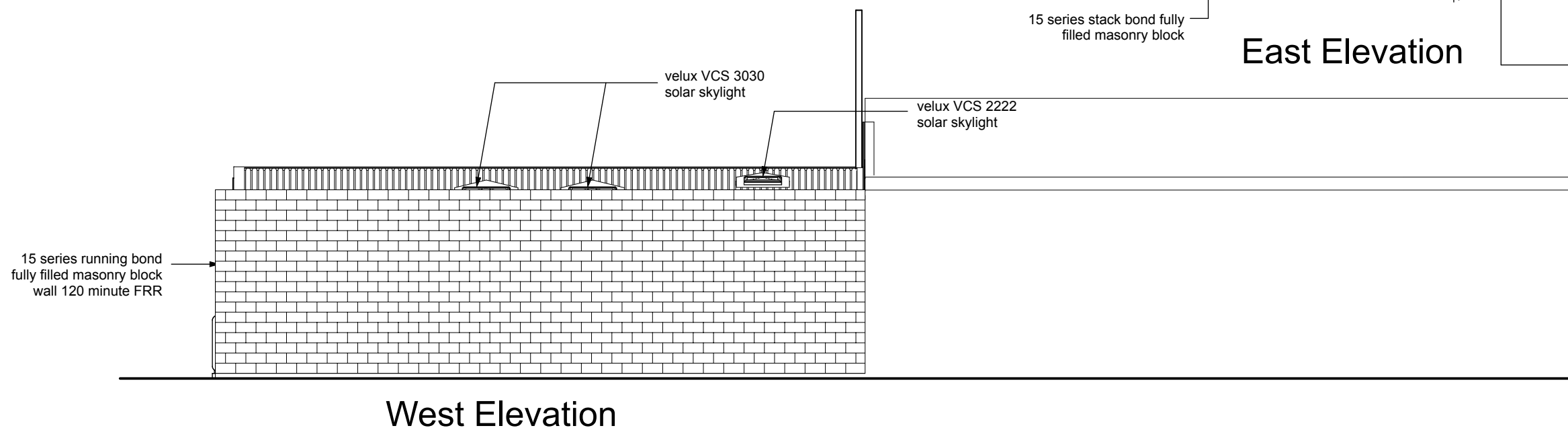
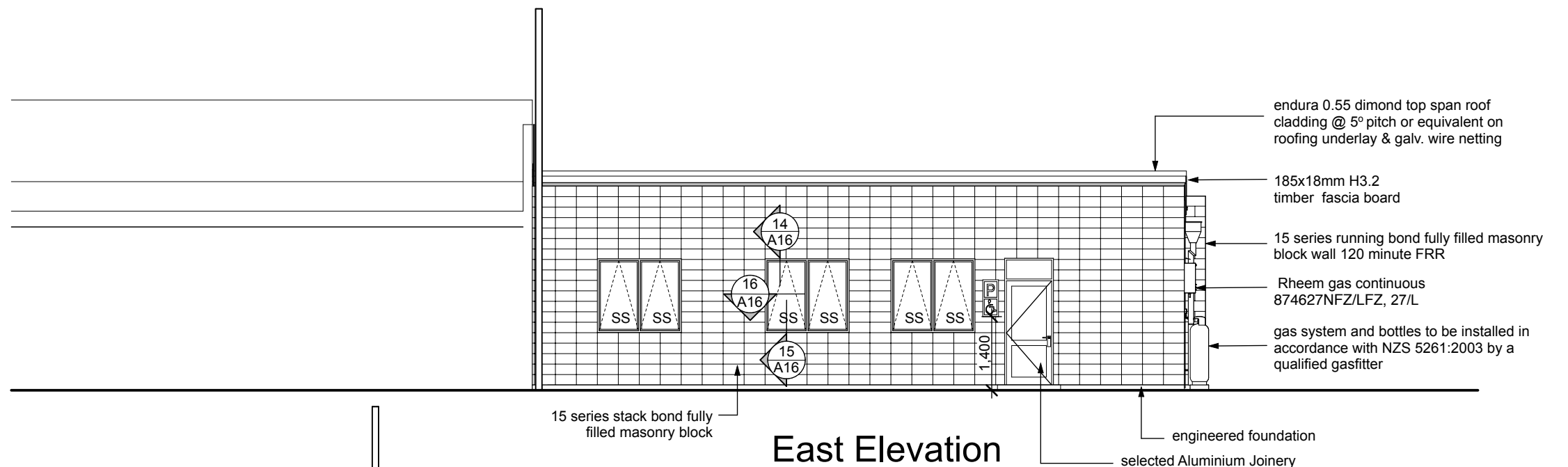
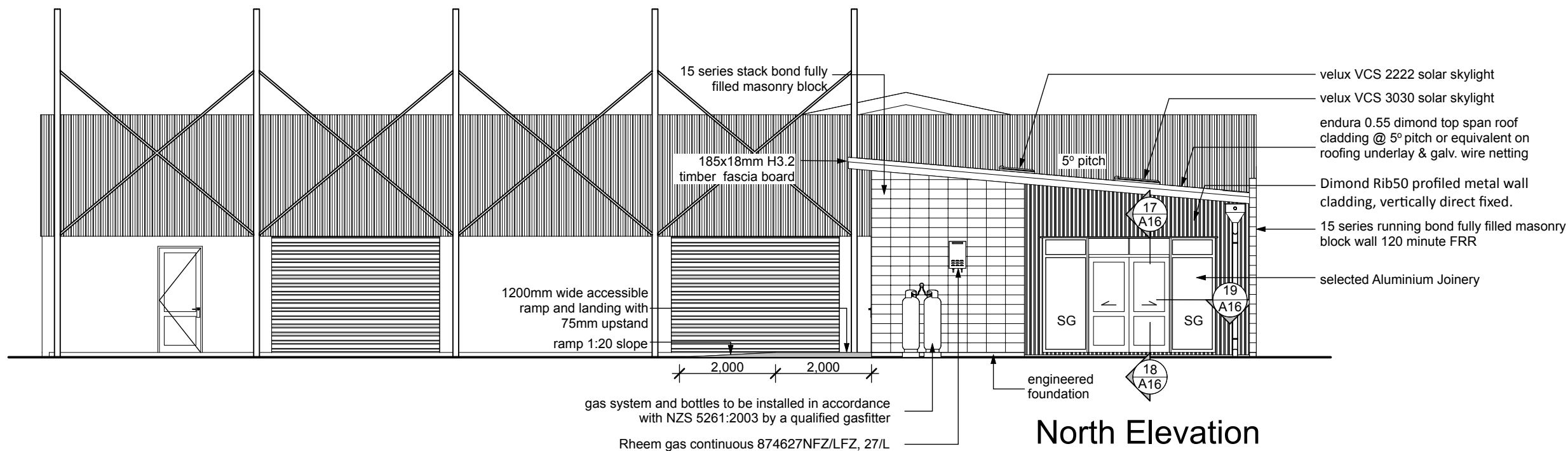
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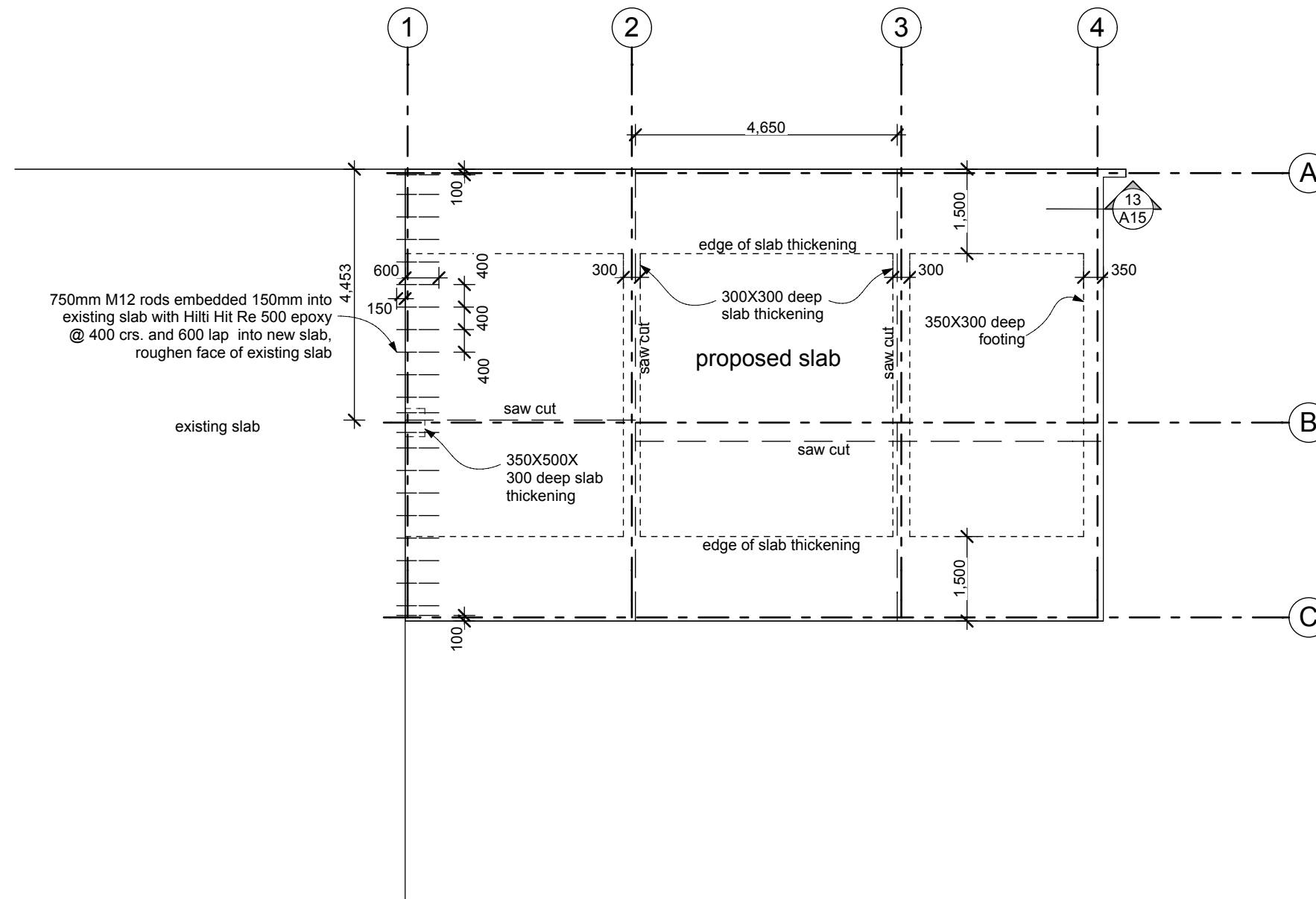
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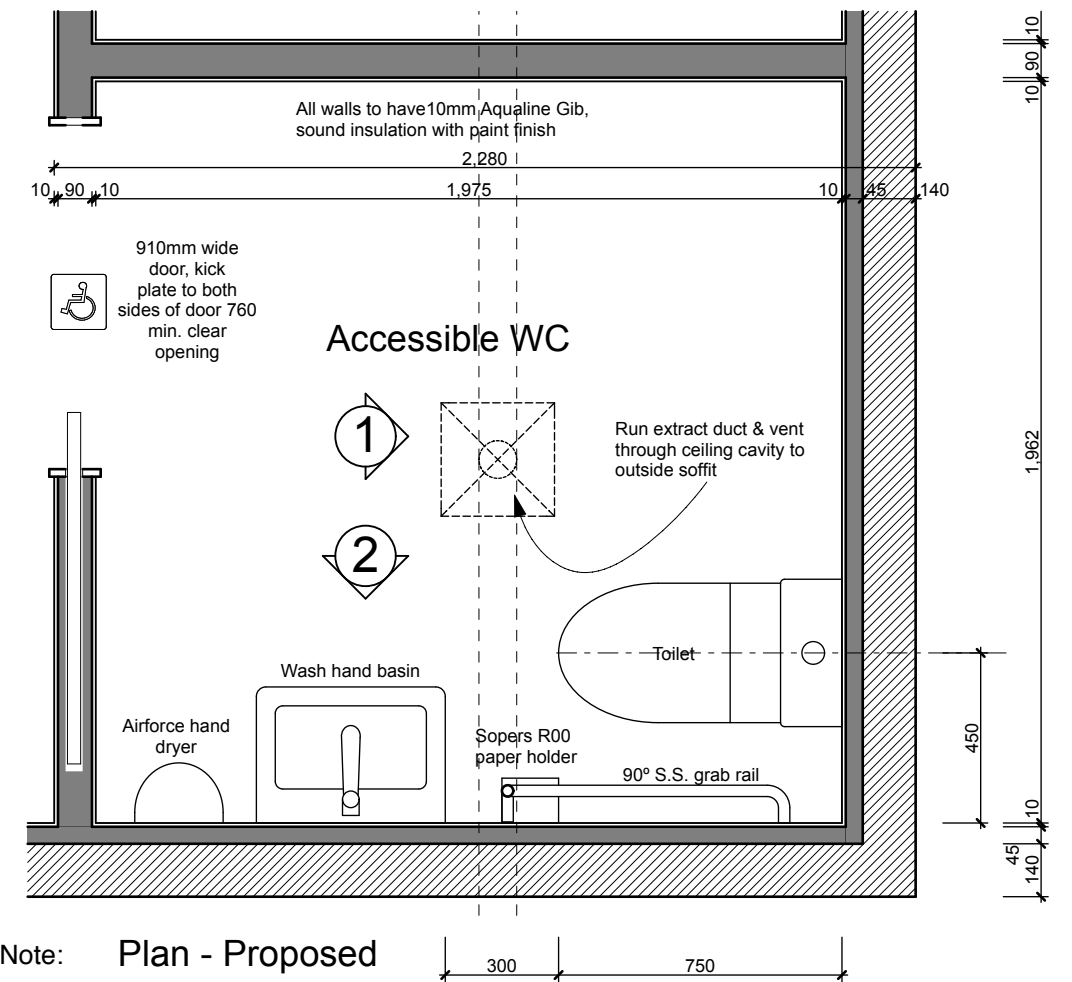
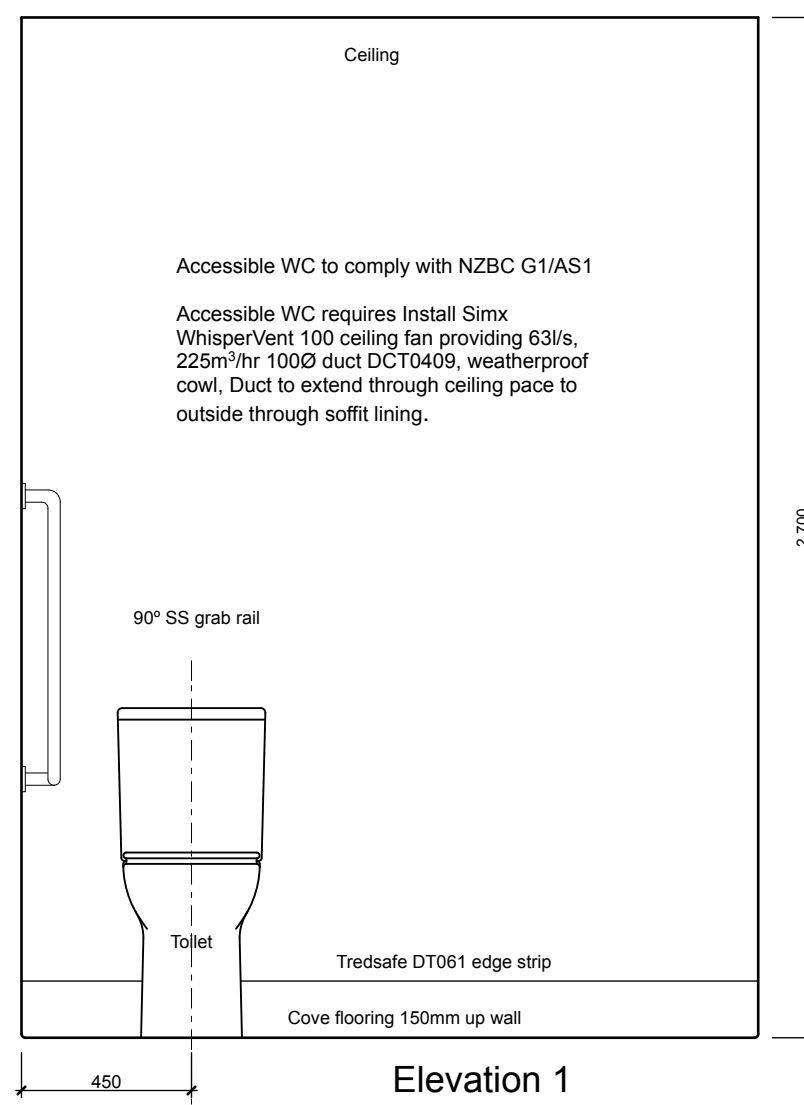
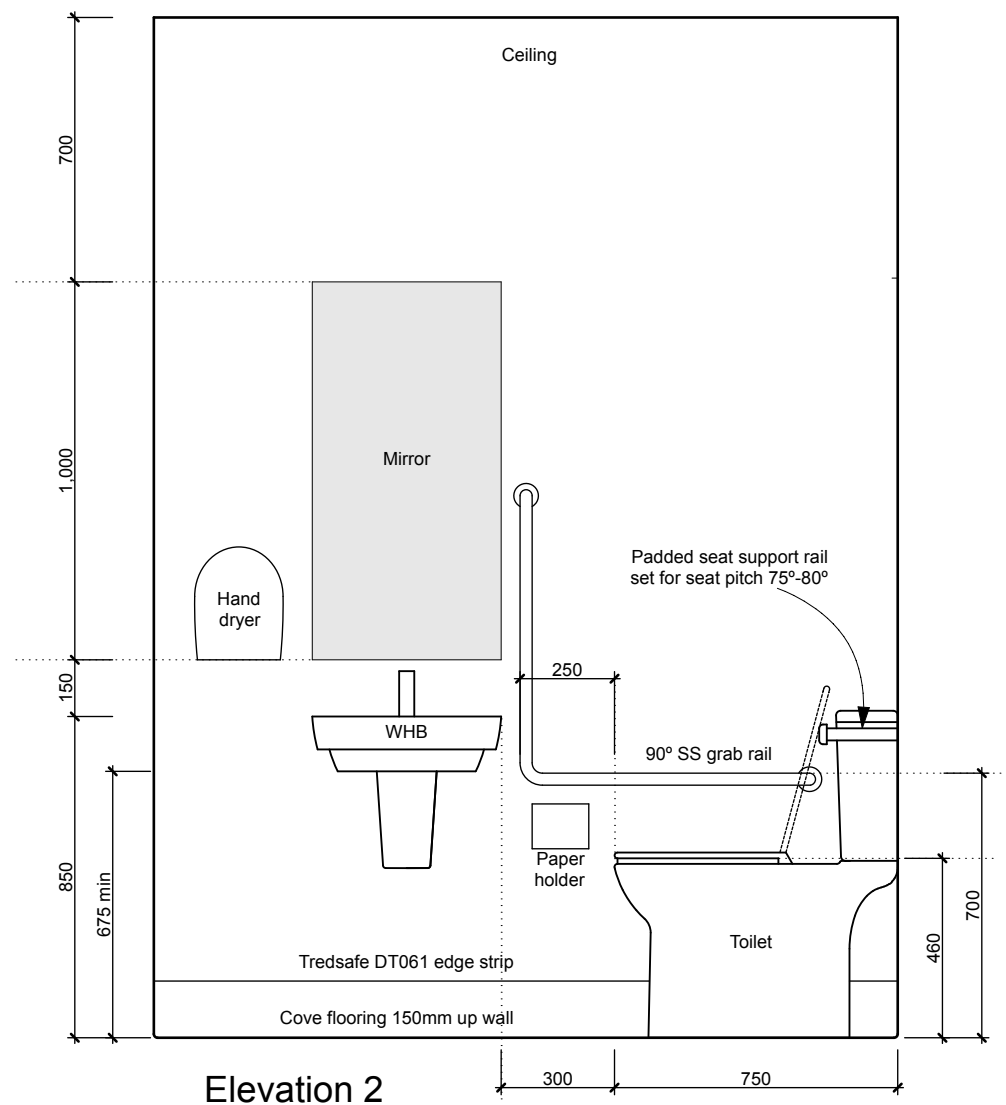
Issue: 1
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A7

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Note: Plan - Proposed

Door handles and related hardware and accessories shall comply with the following requirements:

Handles shall be between 900 mm and 1200 mm (optimum 1000 mm) above the finished floor level

Handles operating locks and latches shall have a lever action and the end of the handle shall be returned towards the door

The door opening pressure shall be the minimum required to suit specific use and conditions

The force required to push or pull open a non-fire door shall not exceed the following:

Exterior hinged door: 38 N

Interior hinged door: 22 N

Sliding or folding doors: 22 N

Accessible signage to be provided to comply with F8/AS1

Display the symbol of access and as appropriate, include the direction travel and name of facility (see Figure 5) 1400mm to 1700mm above floor level

Use lettering and symbols in a colour which contrasts clearly with the background and

Use the proportional layout of the symbol of access, as show in figure 6

Similar sign for disabled bathroom.

Door closers to have minimum tension required to bring door to closed position

Light switches and power outlets to comply with 14.7.4.17 NZS 4121: 2001

Artificial lighting complying with NZBC G8 shall be provided along the access route.

All non - slip surfaces will comply with Table 2 D1/AS1

The colour of doors shall contrast to their surroundings



CS For Doors
Easy Open WC
latch or equivalent



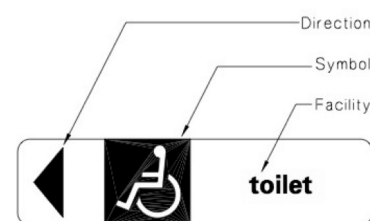
Accessible Doors
handle or equivalent

Lockwood 8002
Swing Door Operators

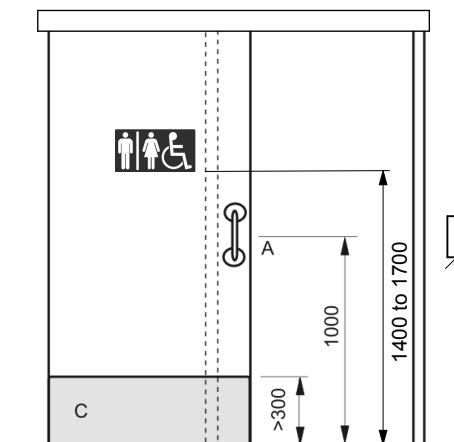


Accessible Doors
closer or equivalent

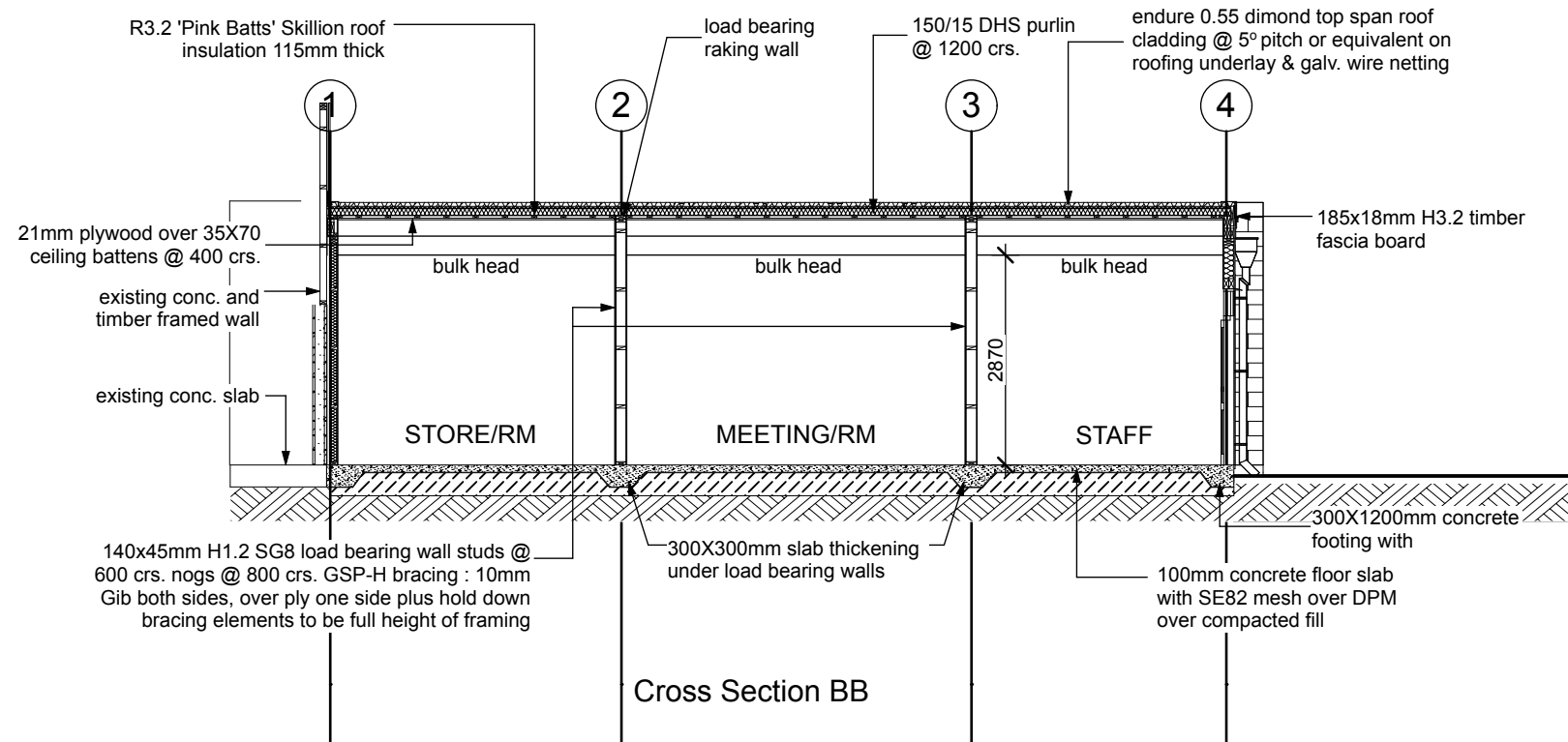
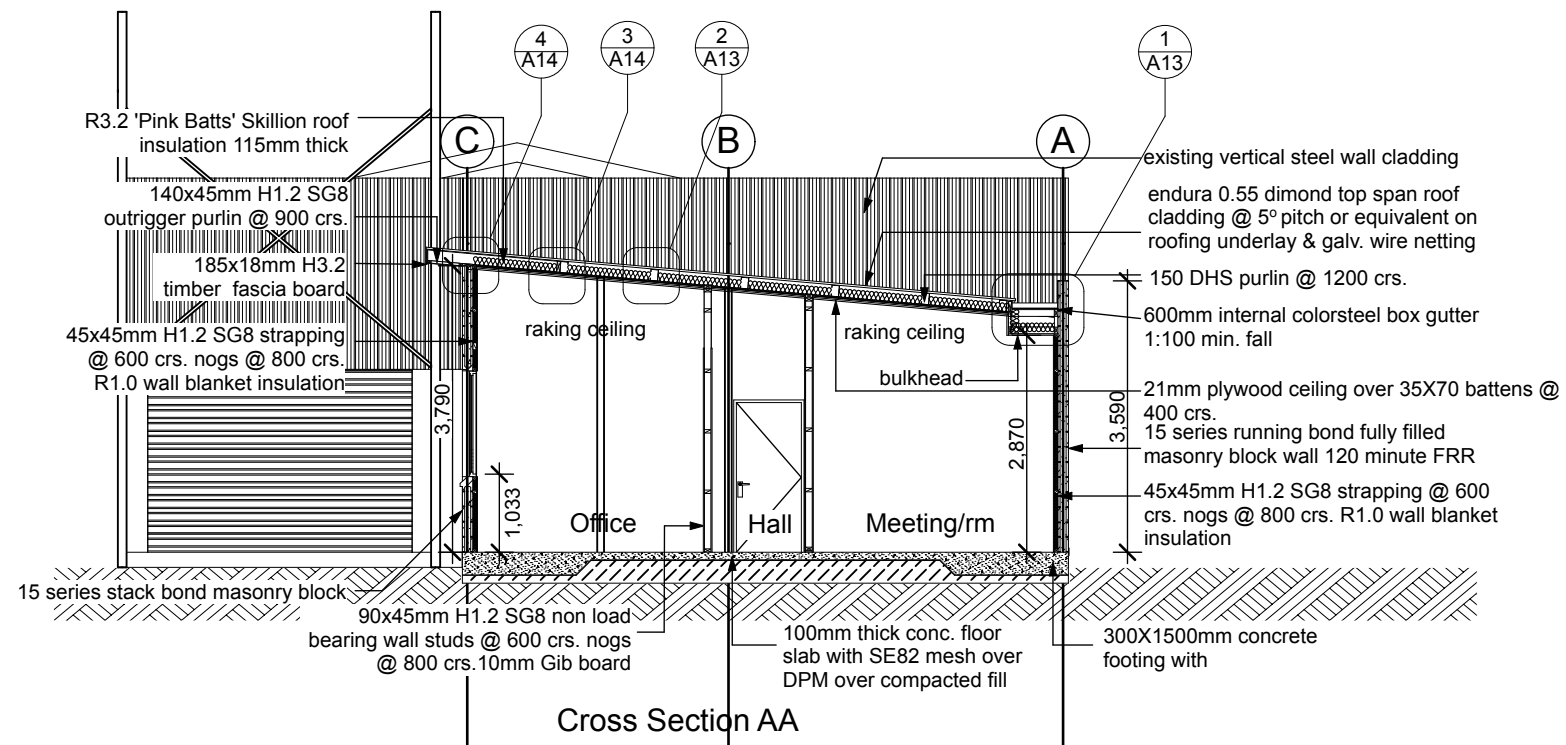
Figure 5: Example of Sign Indicating Facilities and its Direction Paragraph 5.0.2 a)



Accessible Signage



Light switch horizontally aligned to door handle 1000mm above floor level
Power outlets to be located 500mm to 1200mm above floor level



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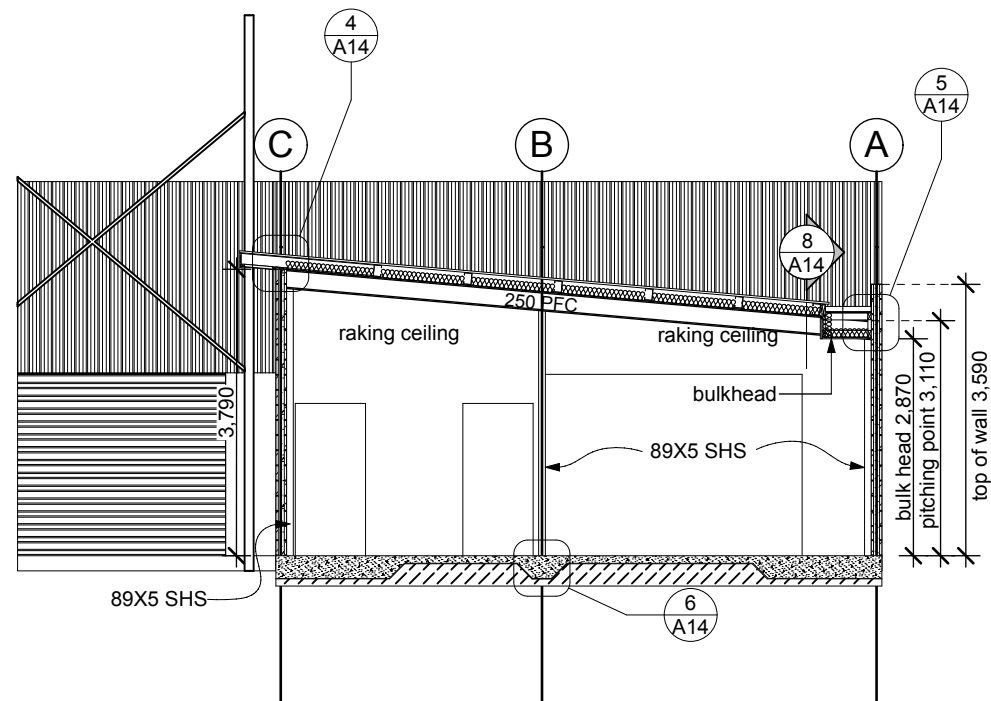
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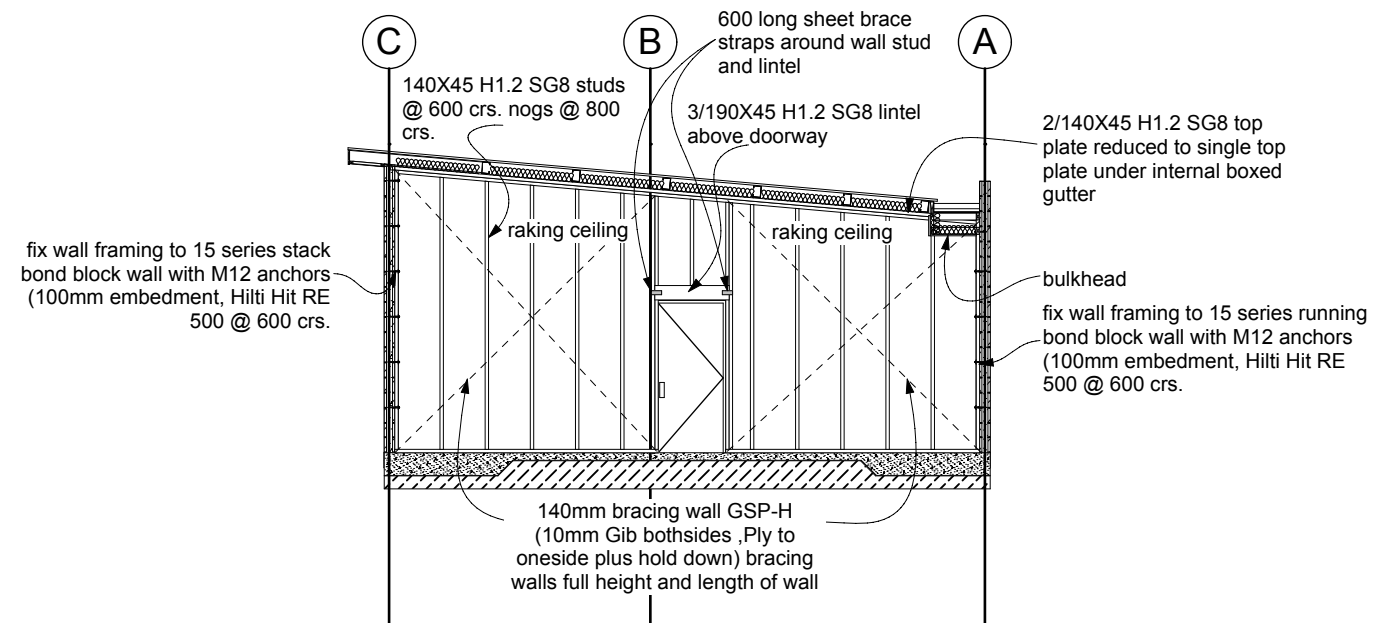
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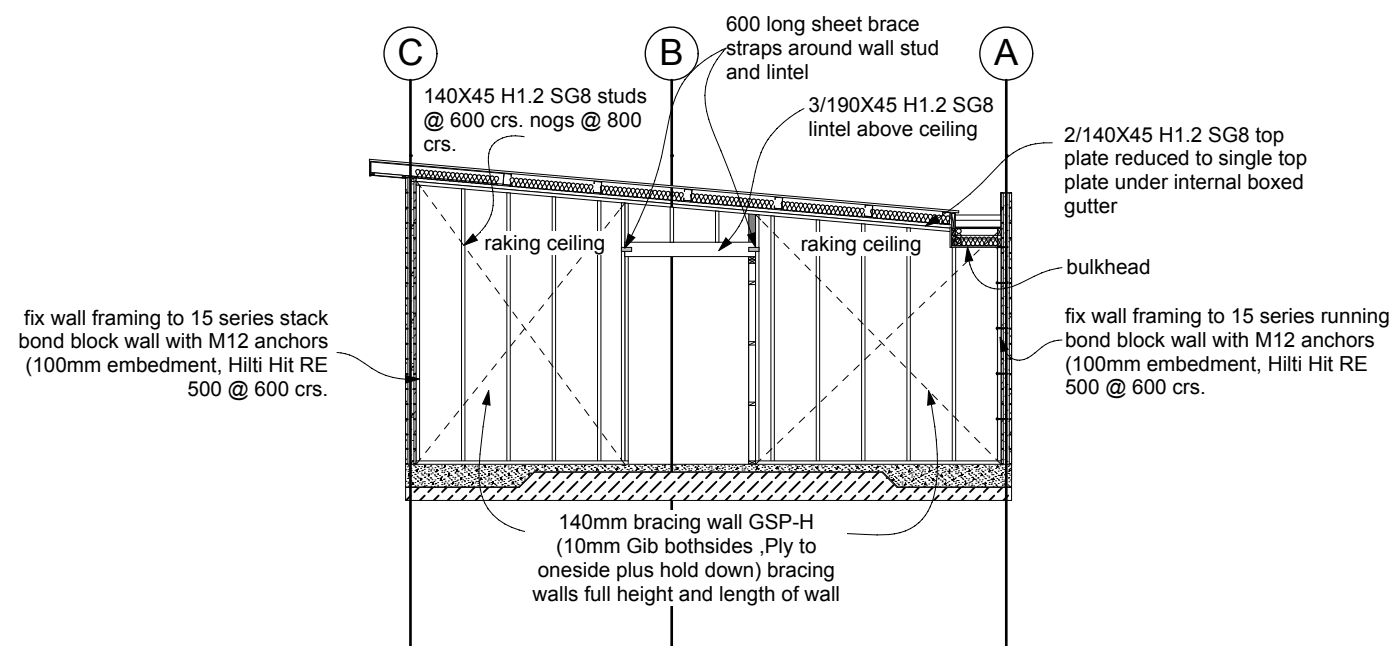
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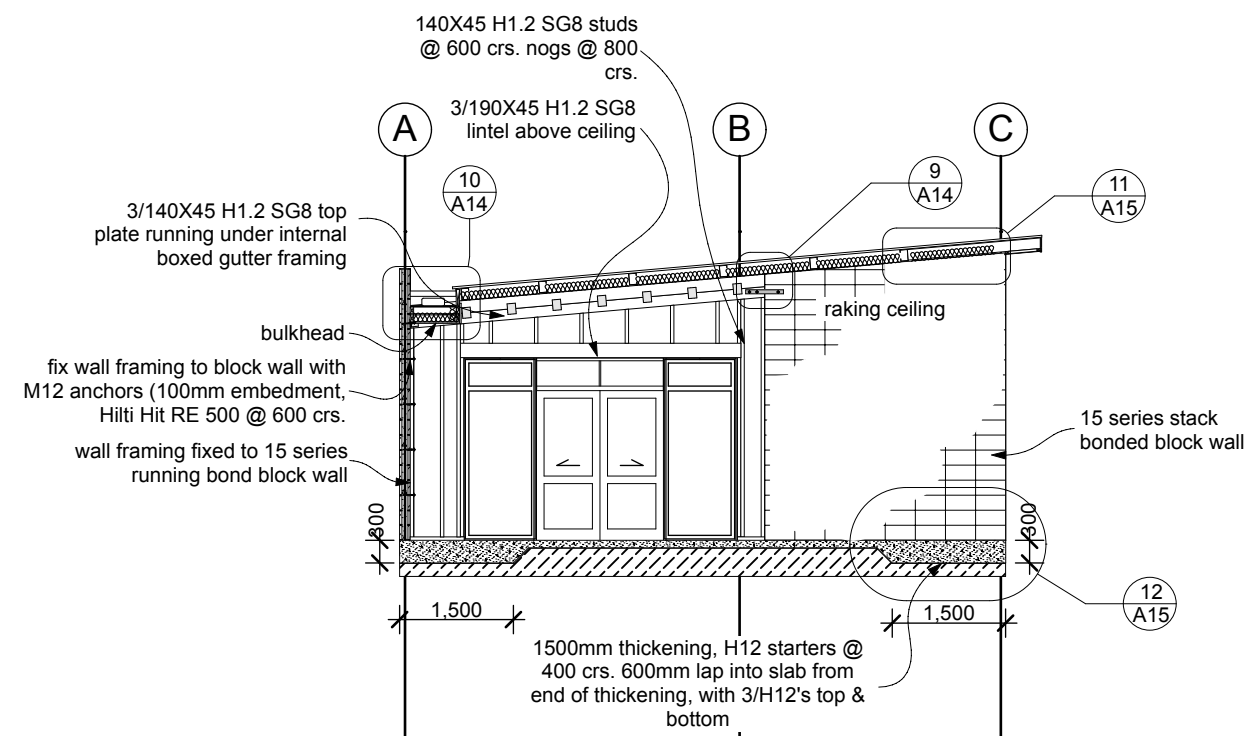
Gridline 1 Cross Section



Gridline 2 Cross Section



Gridline 3 Cross Section

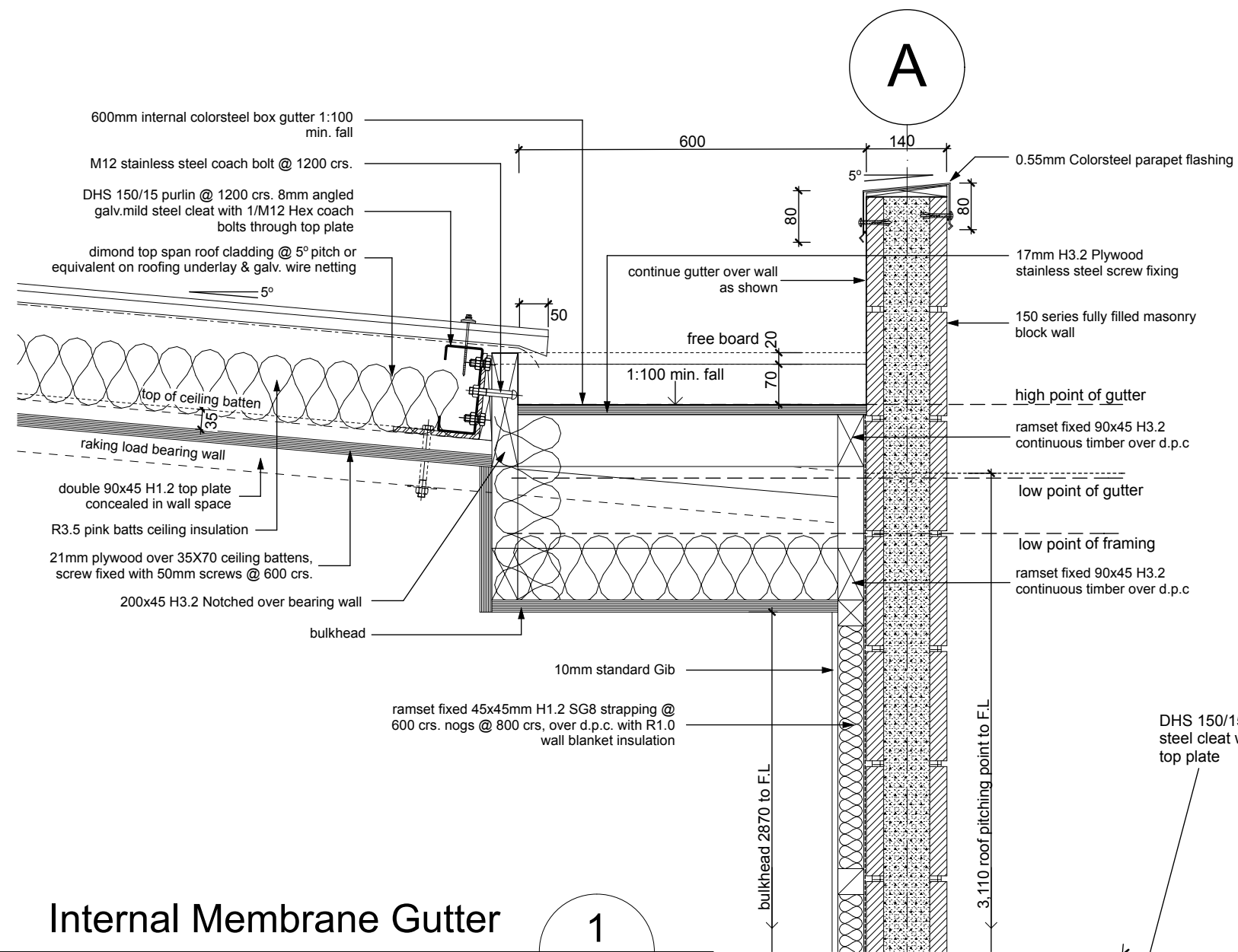


Gridline 4 Cross Section

NOTE:
15 series block walls on grids A & C

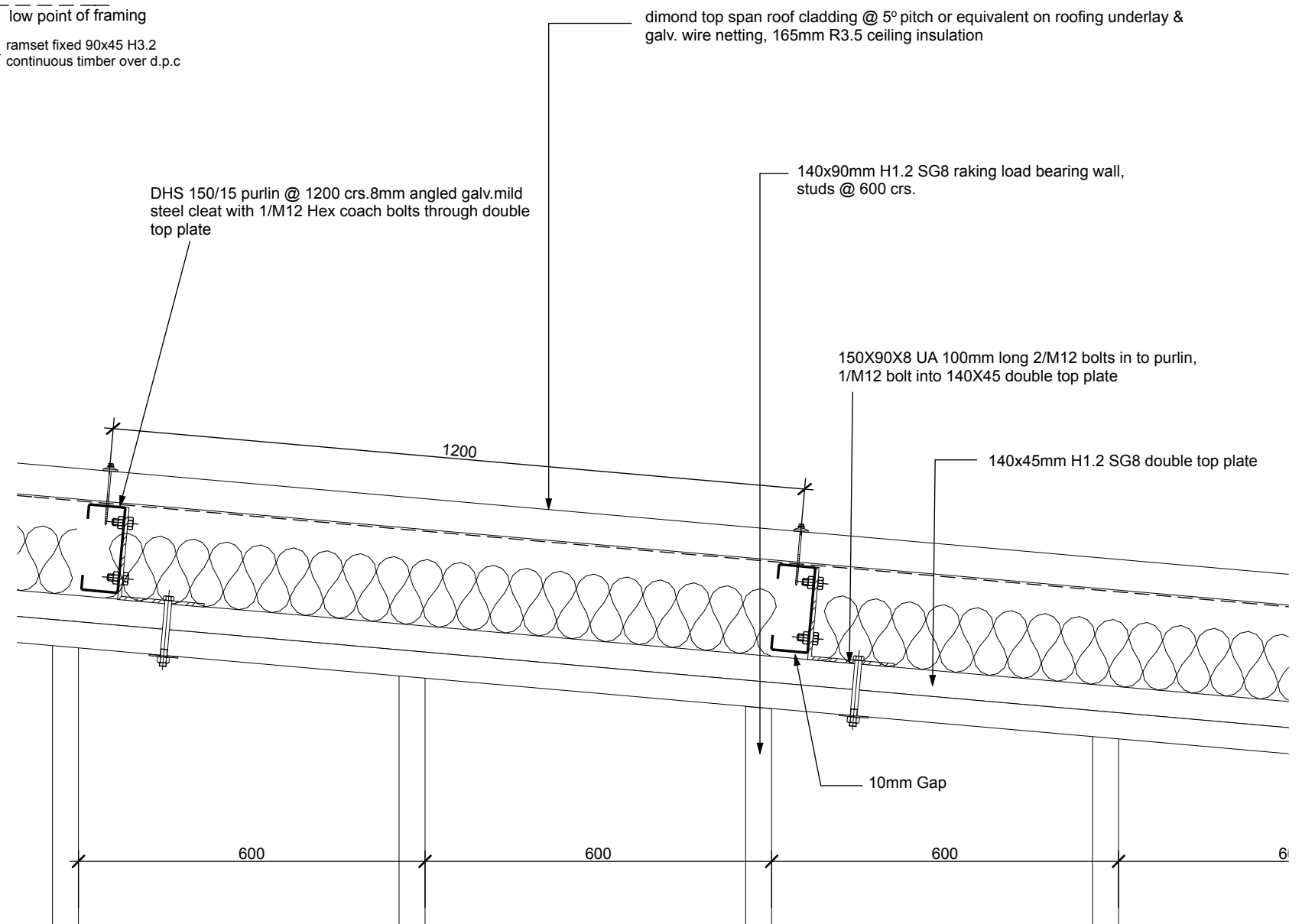
- H12's @ 400 crs. verticals
- D16's @ 200 crs. horizontal in 3 courses by roof connection.
- H12's @ 400 crs. horizontal rest of wall.

wall framing to NZS 3604:2011



Internal Membrane Gutter
Cross Sectional Detail

1
A11



150 DHS Purlin Connection
Cross Sectional Detail

2
A11



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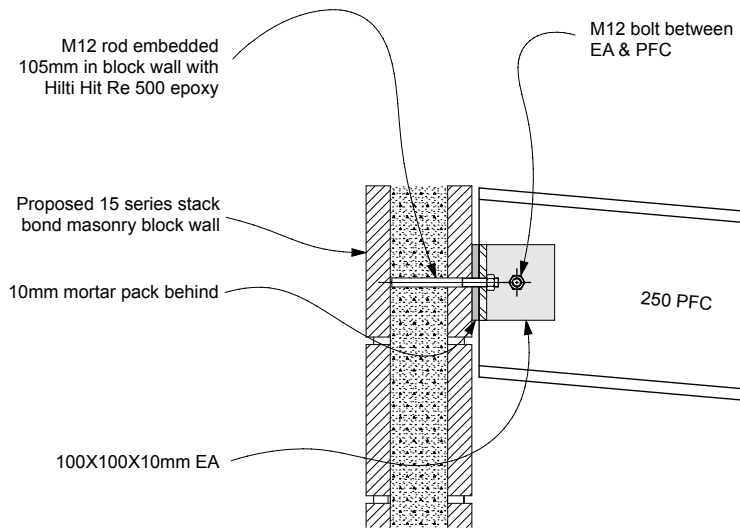
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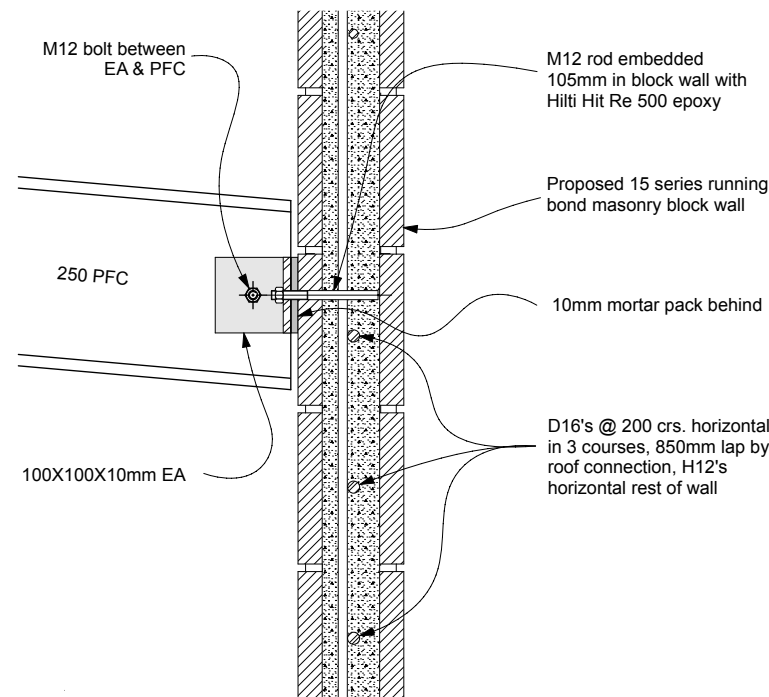
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Grids 1 & C PFC To Block Connection

Cross Sectional Detail

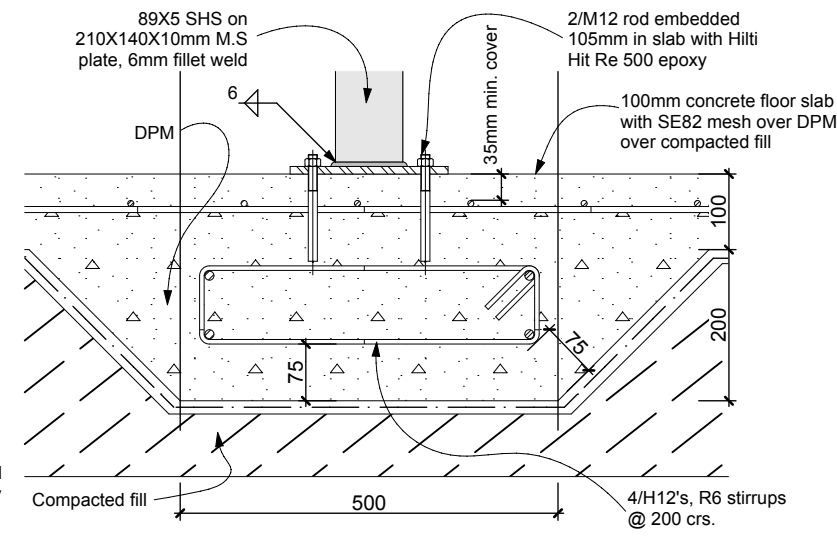
4
A12



Grids 1 & A PFC To Block Connection

Cross Sectional Detail

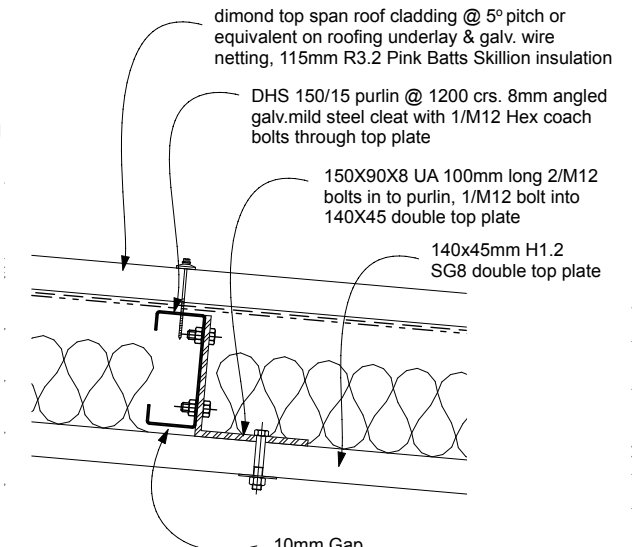
5
A12



Grids 1 & B Slab Thickening

Cross Sectional Detail

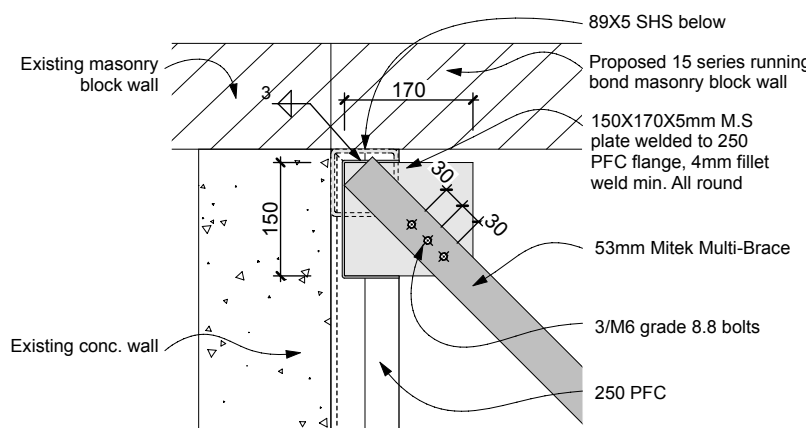
6
A12



Typical Purlin Cleat

Cross Sectional Detail

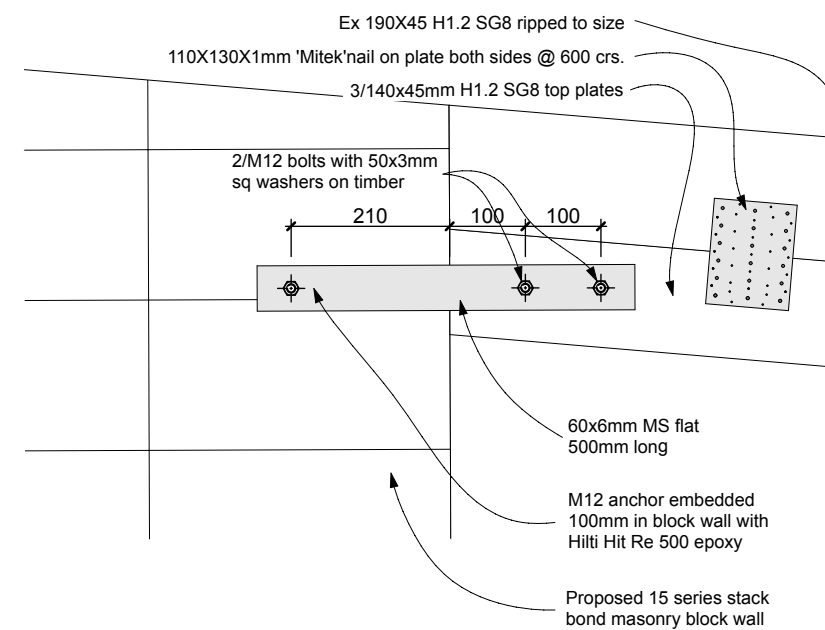
3
A11



Grids 1 Roof Brace To PFC Connection

Plan Detail

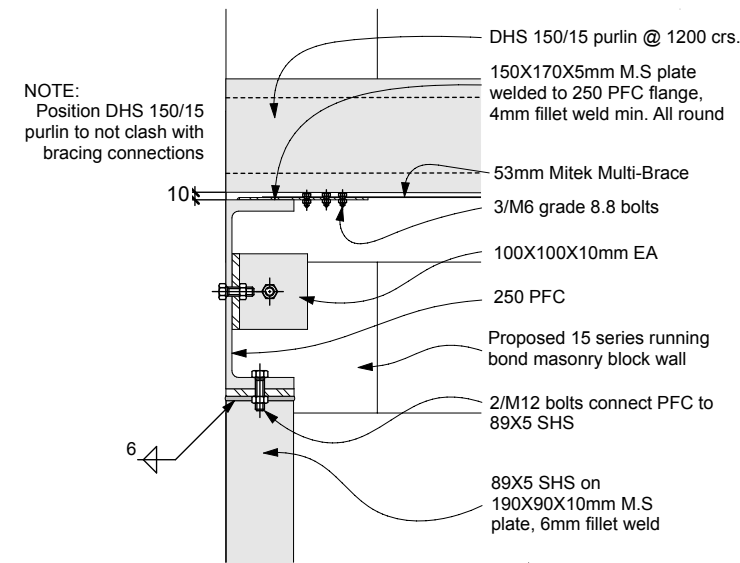
7
A17



Grids 4 Wall Tie Connection

Section Detail

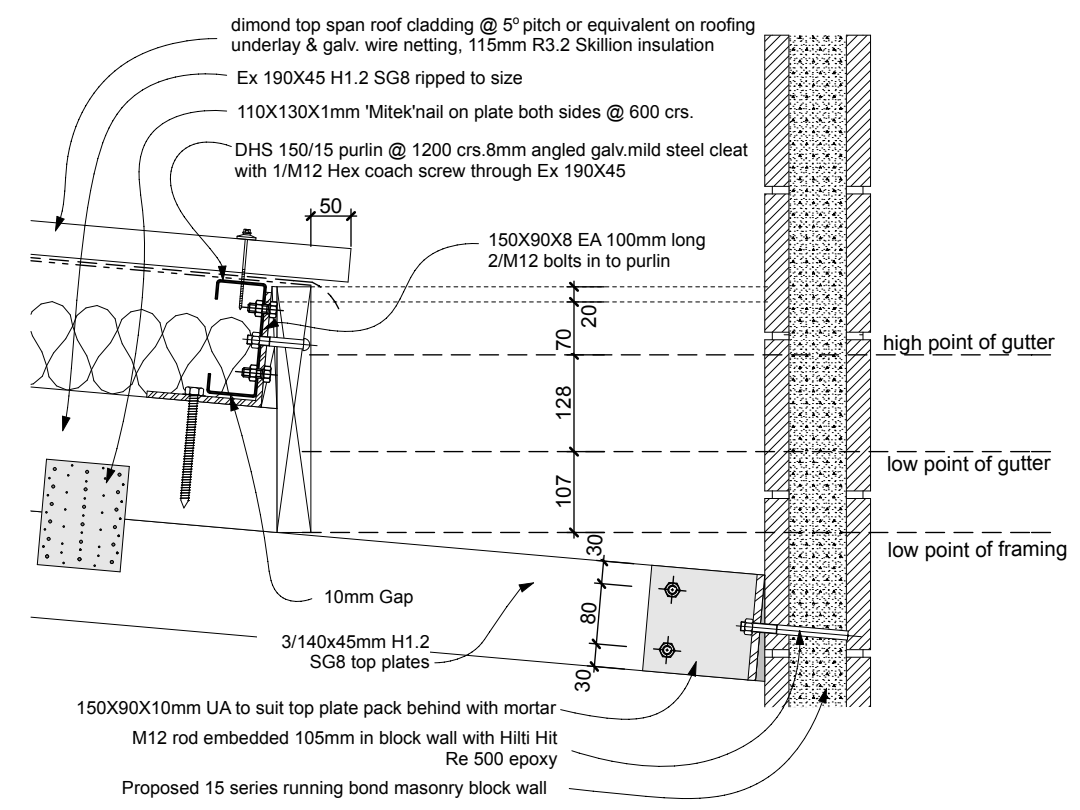
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A12



Grids 1 Roof Brace To PFC Connection

Section Detail

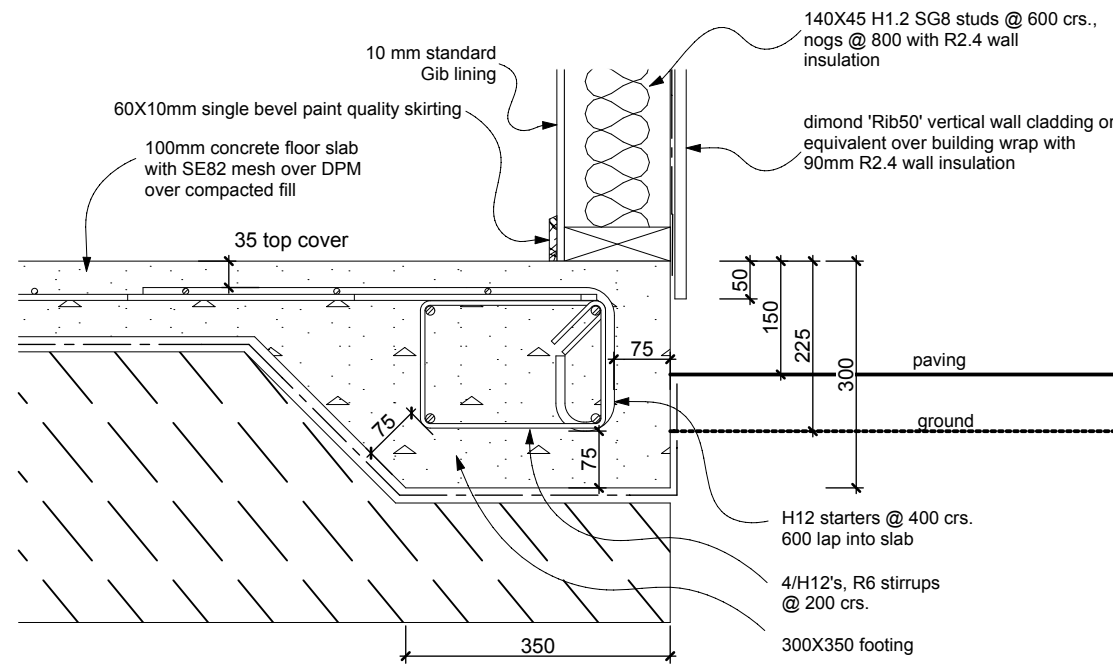
8
A12



Grids 4 Wall Tie Connection

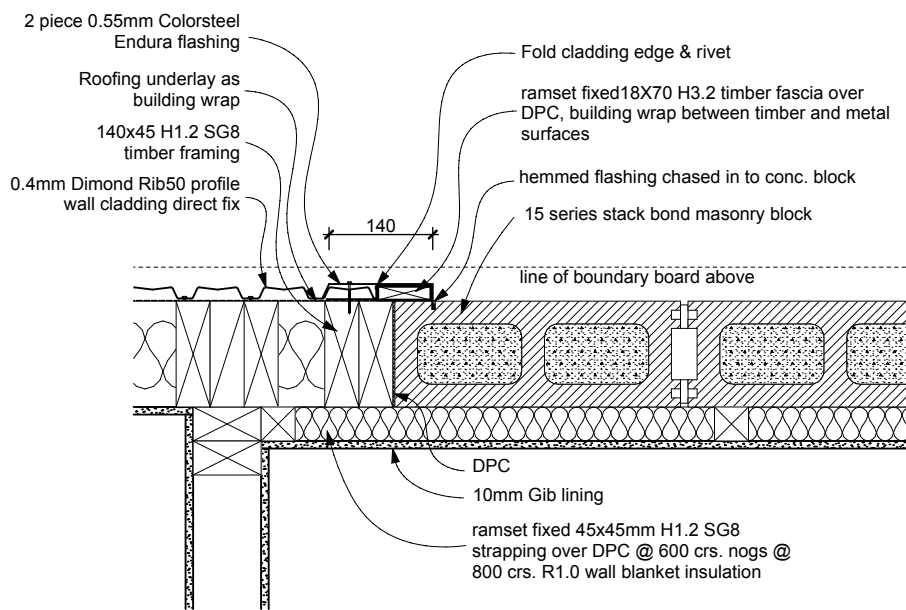
Section Detail

10
A12



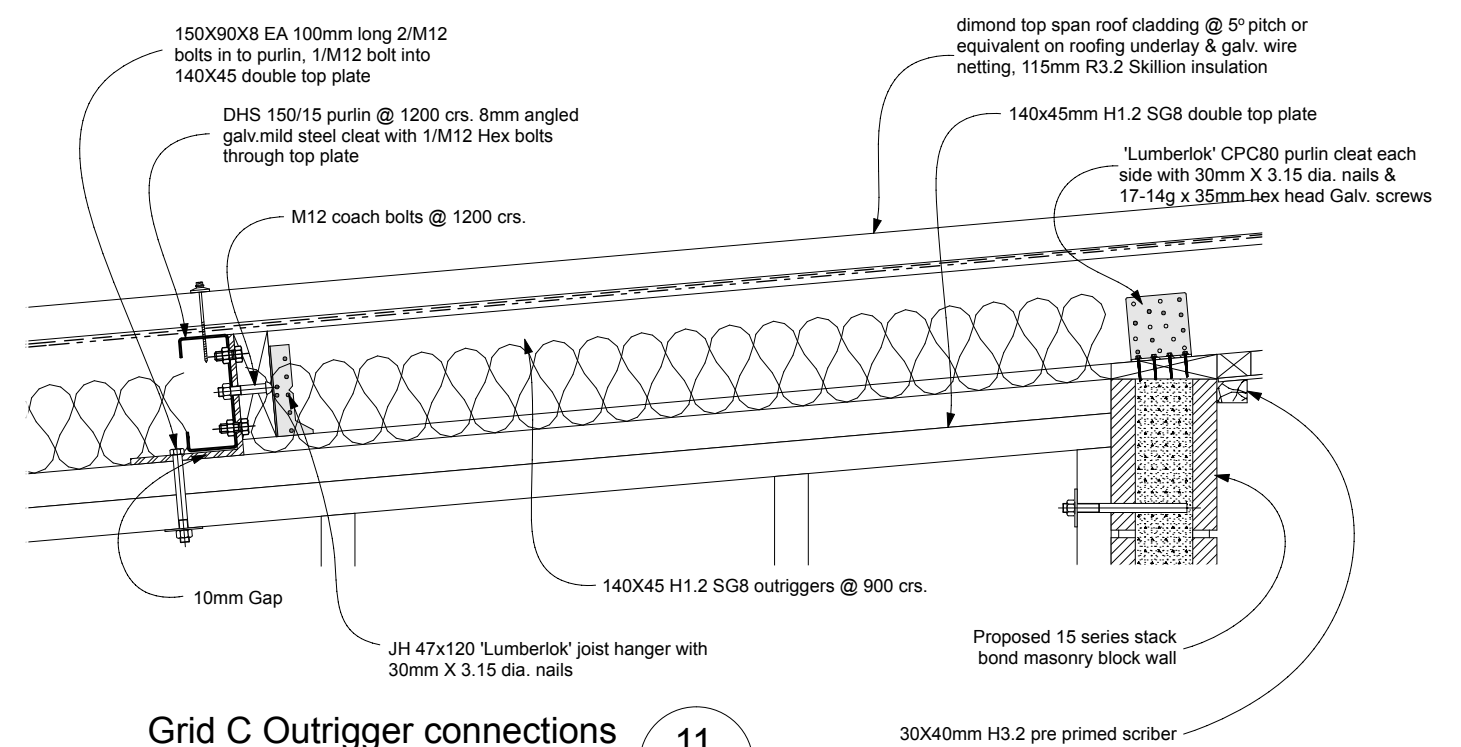
Grid 4 Slab Foundation
Section Detail

13
A9



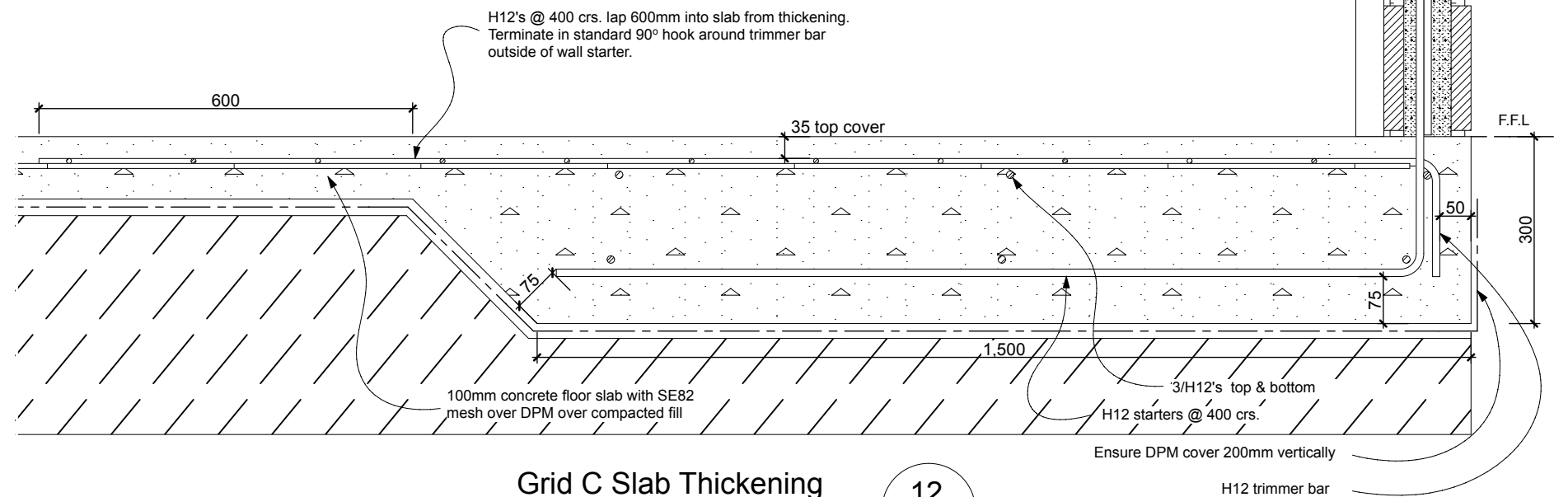
Metal Cladding to Concrete
Block Flashing
Plan Detail

20
A6



Grid C Outrigger connections
Section Detail

11
A12



Grid C Slab Thickening
Section Detail

12
A12



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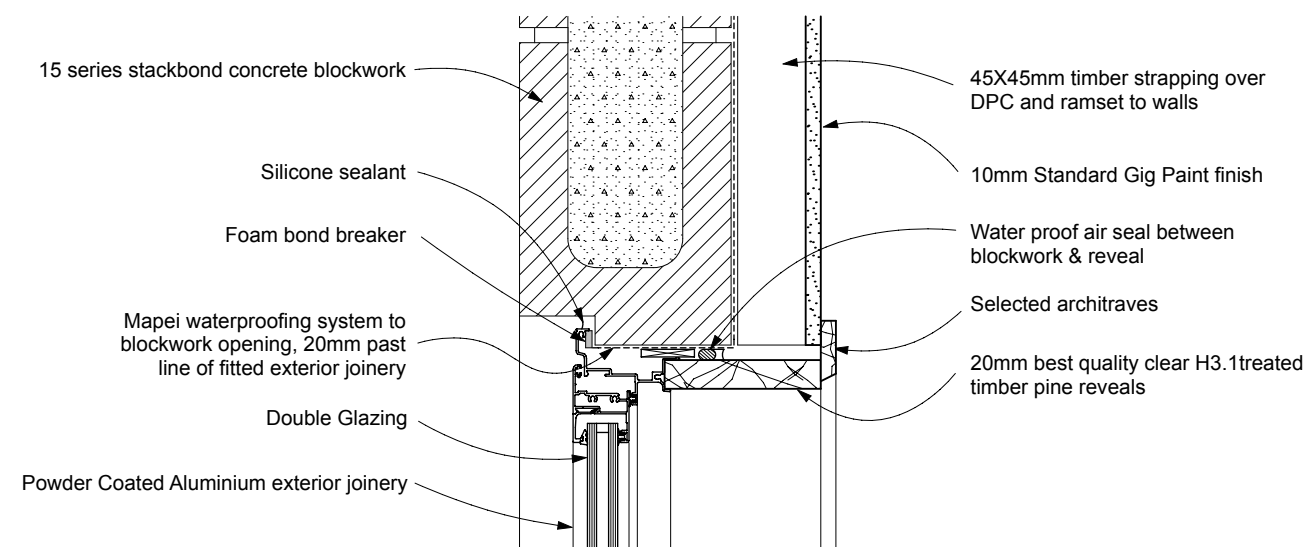
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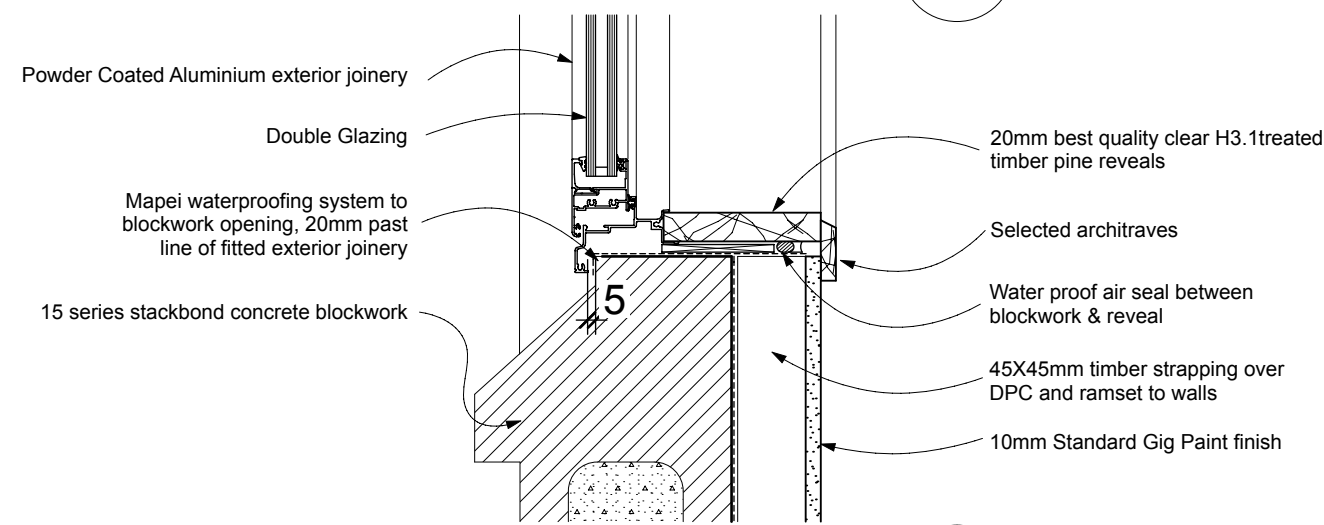
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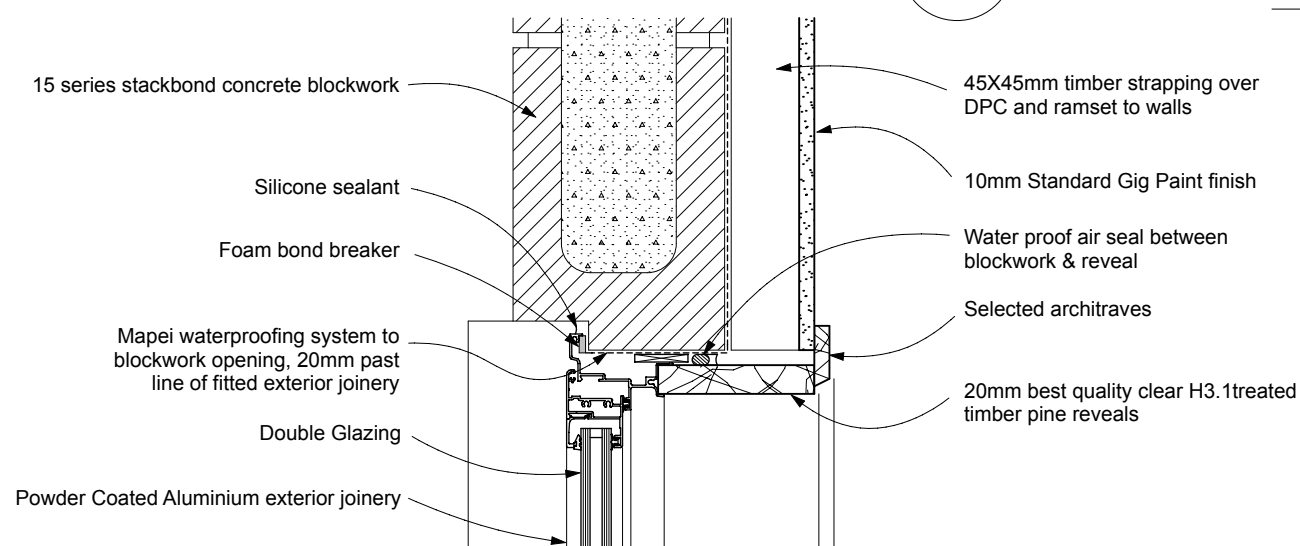
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15 Series Block
Head Detail
14
A8

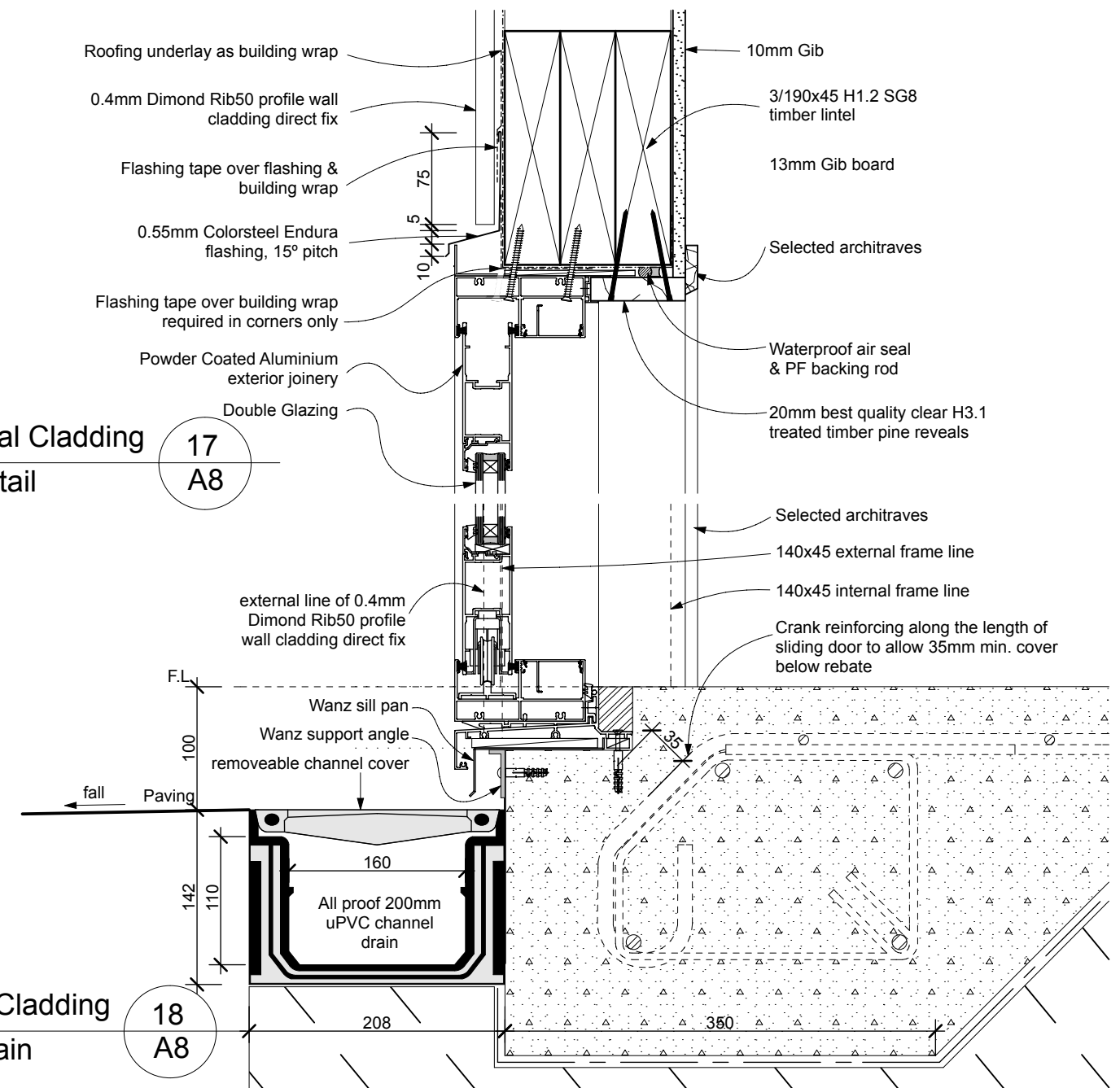


15 Series Block
Sill Detail
15
A8



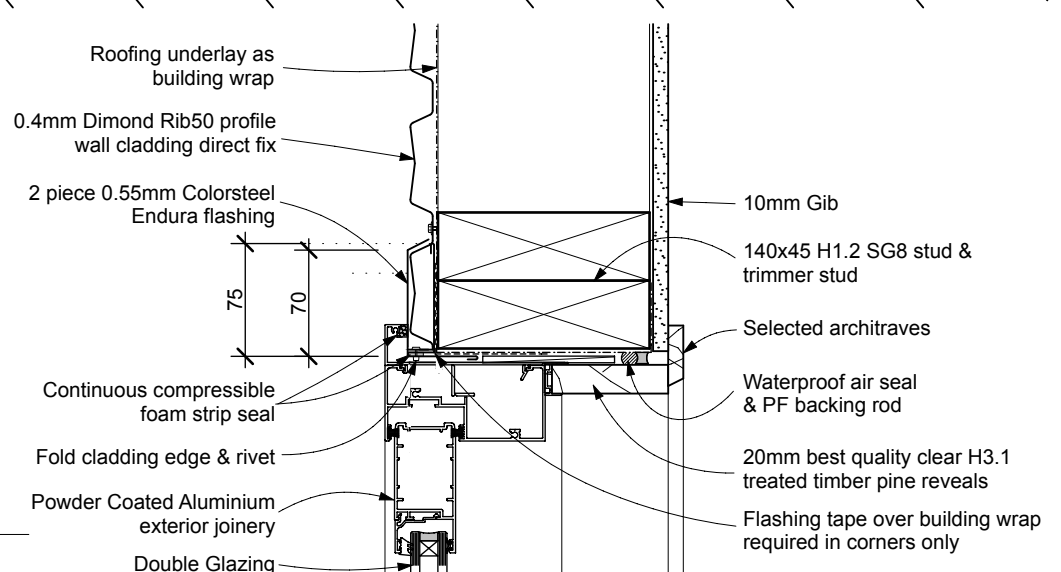
15 Series Block
Jamb Detail
16
A8

Dimond Rib50 Metal Cladding
Head Detail
17
A8



Dimond Rib50 Metal Cladding
Sill & Strip Drain Detail
18
A8

Dimond Rib50 Metal Cladding
Jamb Detail
19
A8



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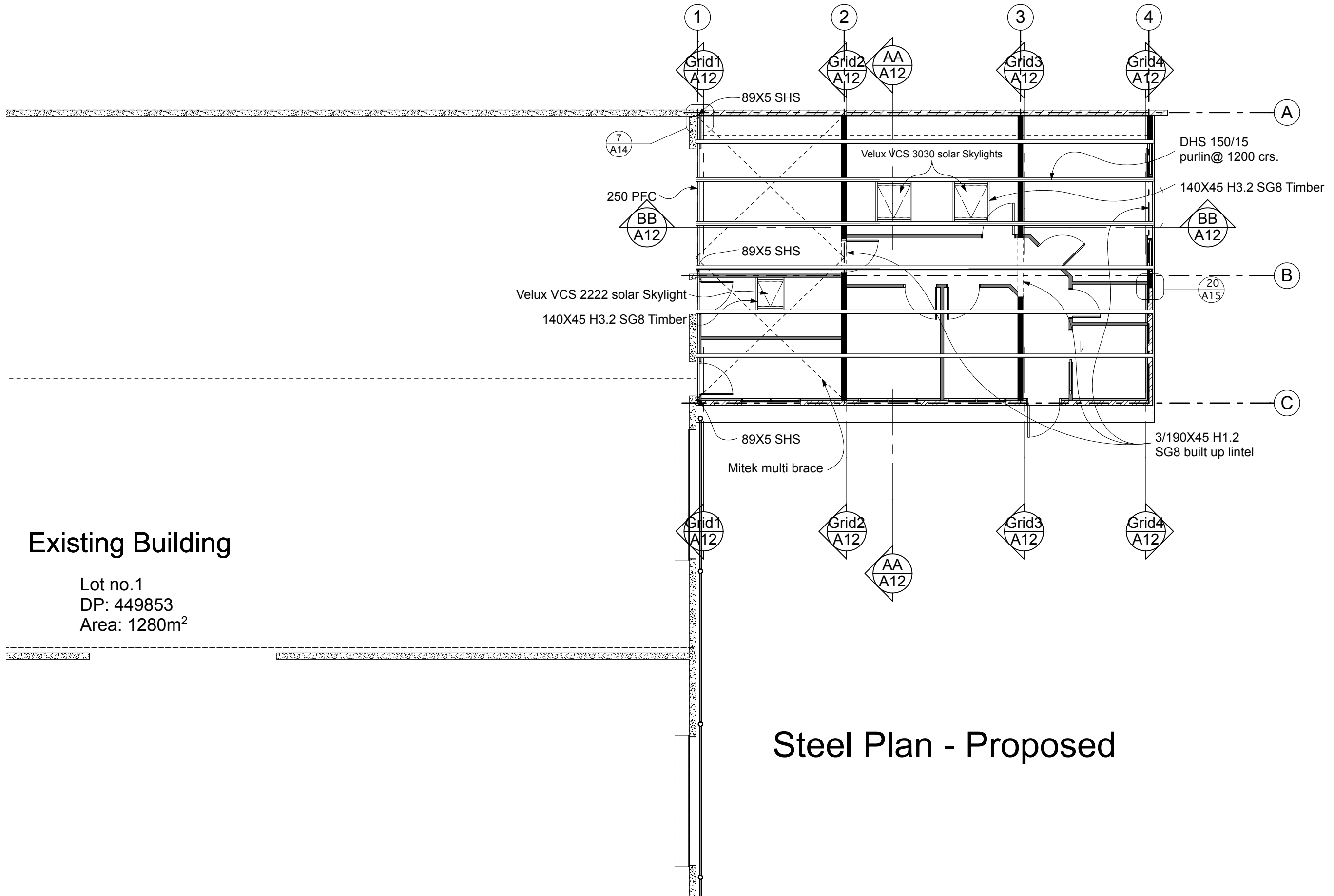
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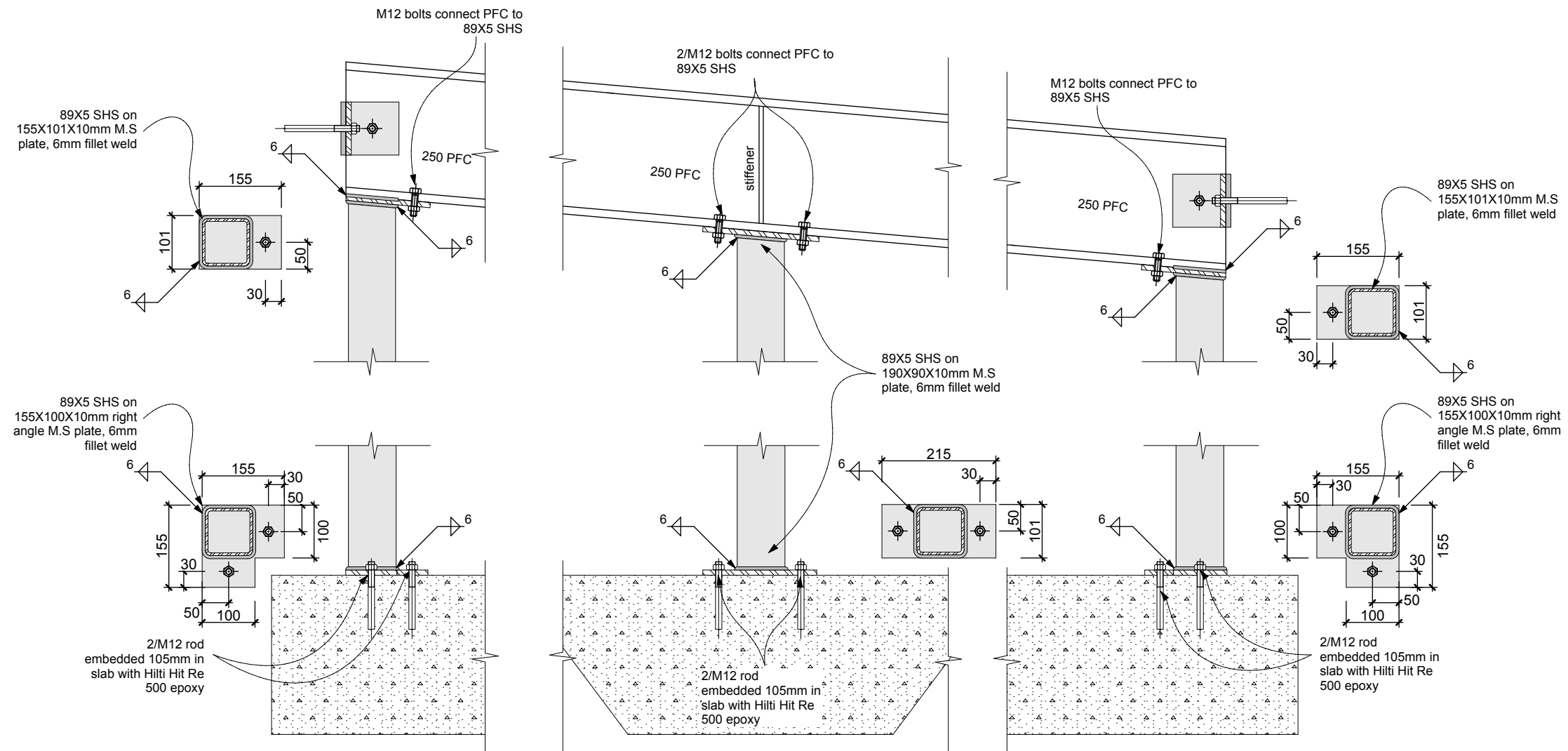
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Gridline 1 Steel Details



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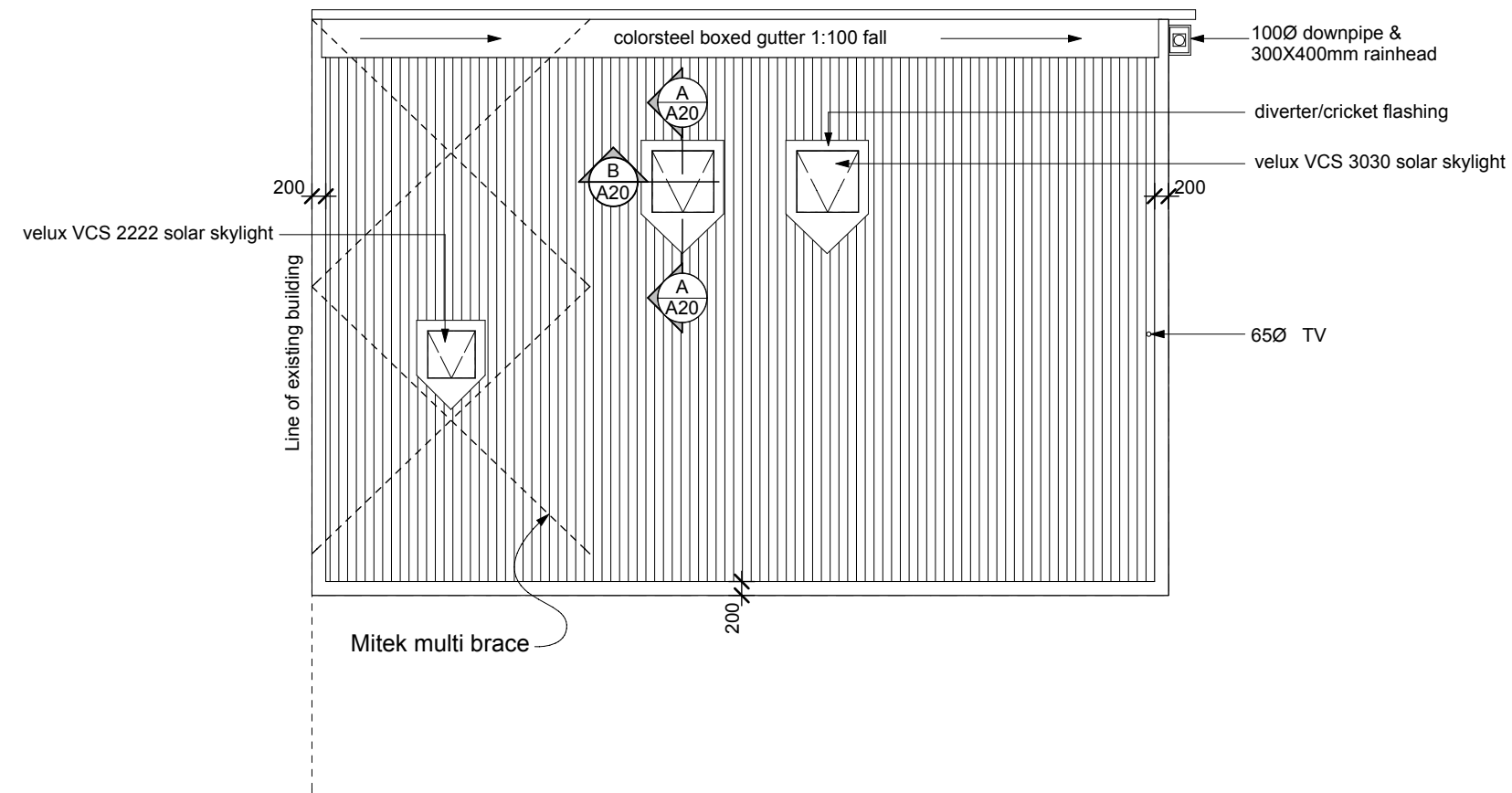
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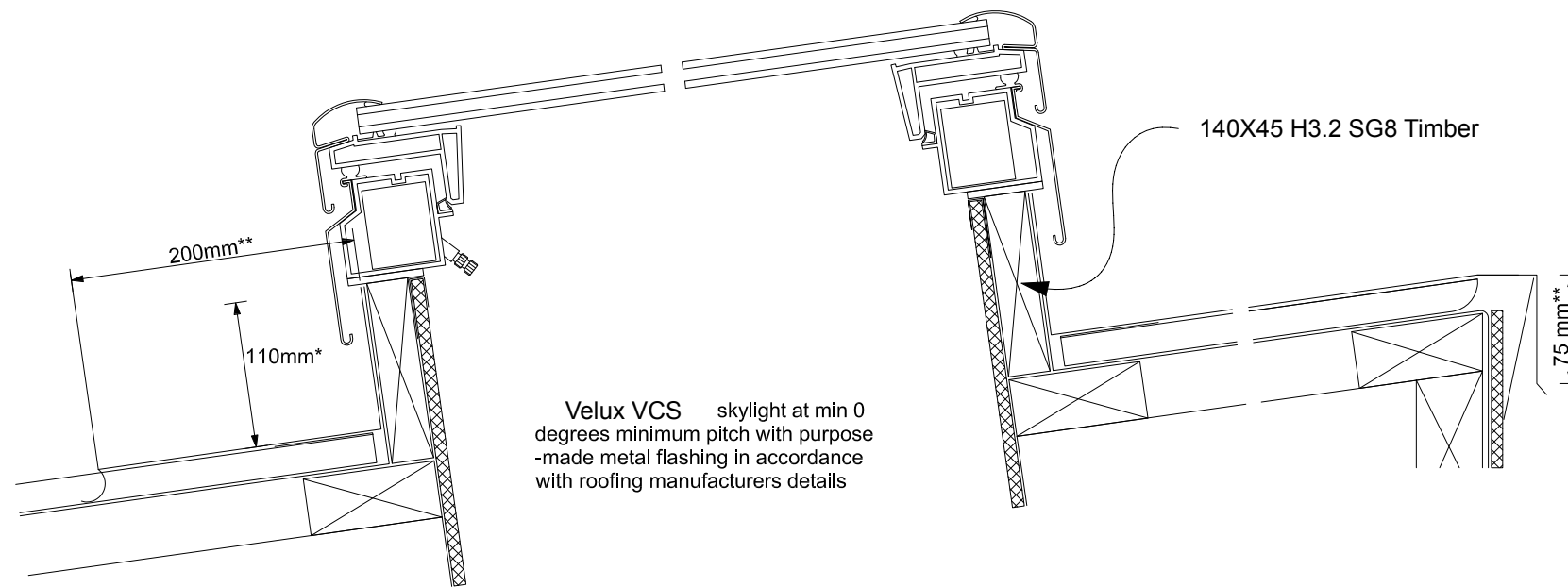
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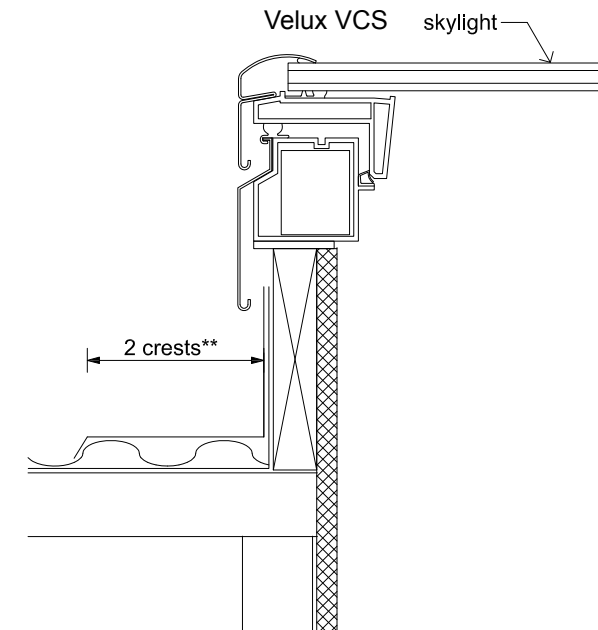
A19

of sheets



Velux VCS Solar Skylight
Cross Sectional Detail

A
A19



Velux VCS Solar Skylight
Cross Sectional Detail

B
A19

PRODUCT DIMENSIONS					
METRIC UNITS (MILLIMETERS)					
SIZE	OUTSIDE CURB WIDTH	SKYLIGHT WIDTH	OUTSIDE CURB HEIGHT	SKYLIGHT HEIGHT	DAYLIGHT AREA (SQ. M)
2222	648	688	648	688	0.24
2246	648	688	1257	1297.5	0.55
3030	851	891.1	851	891.1	0.49
4046	1257	1297.5	1257	1297.5	1.22



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