Approved Building Consent Documents

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

Inspection booking timeframes

Call received	before 3pm inspection will be done	after 3pm inspection will be done
Monday	Wednesday	Thursday
Tuesday	Thursday	Friday
Wednesday	Friday	Monday
Thursday	Monday	Tuesday
Friday	Tuesday	Wednesday

Building inspections and enquiries phone: 03 347 2839

Please ensure all work for inspection is ready the day before. Incomplete work requiring re-inspection will incur an additional inspection fee.

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ARTIST IMPRESSION ONLY

DRAWING CONTENTS

TODAY HOMES LTD
LOT 27 KERSEY PARK DARFIELD

THE OWNERS ACCEPT AND CONFIRM THAT THESE ARE THE FULL AND FINAL DRAWINGS

Signed: Date:

LICENSED BUILDING PRACTITIONER www.dbh.govt.nz BUILDING CONFIDENCE

PRINTED: **Tuesday, 12 March 2024**
DRAWN: **SHAUN HALPINE**

Resource Consent Required

14/03/2024 **wendy.green**

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LEGAL DESCRIPTION:

LOT No: **27**

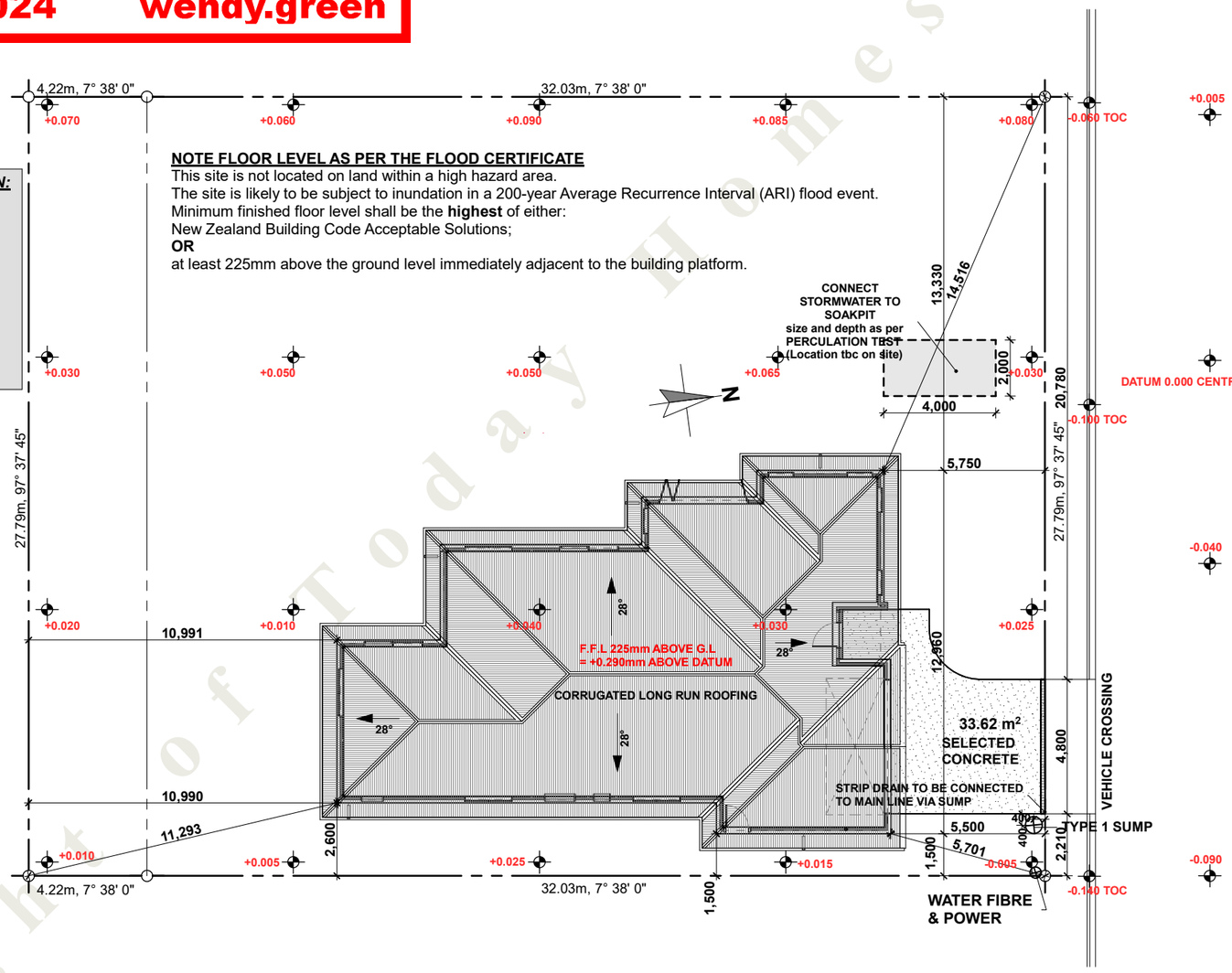
D.P No: **596077**

SITE AREA: **1007m²**

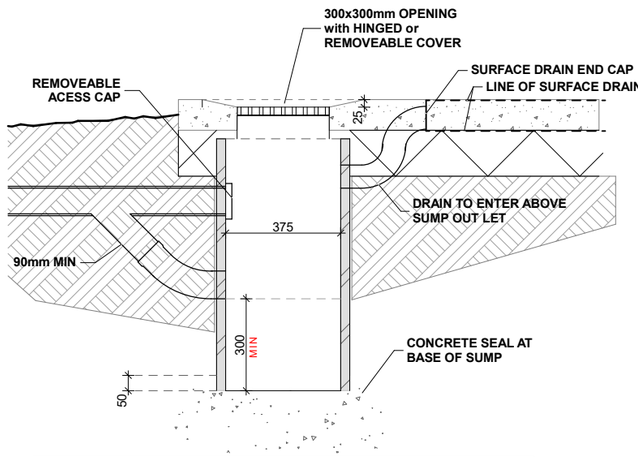
BUILDING AREA: **192m²**

SITE COVERAGE: **19%**

NOTE FLOOR LEVEL AS PER THE FLOOD CERTIFICATE
This site is not located on land within a high hazard area.
The site is likely to be subject to inundation in a 200-year Average Recurrence Interval (ARI) flood event.
Minimum finished floor level shall be the **highest** of either:
New Zealand Building Code Acceptable Solutions;
OR
at least 225mm above the ground level immediately adjacent to the building platform.



Site Location Plan 1:200



TYPE ONE SURFACE WATER SUMP TO SURFACE DRAIN IN DRIVEWAY

DETAIL **D04** — **SUMP DETAIL** — SCALE 1:20

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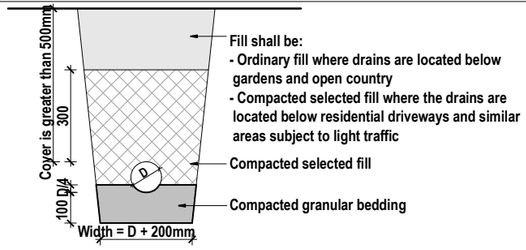
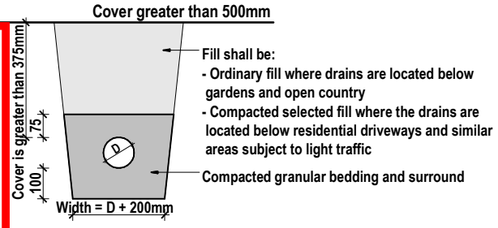
SITE PLAN
JOB NO:**1430823**
ORIGINAL SHEET SIZE **A3**
DRAWN: **SHAUN HALPINE**
PRINTED: **Tuesday, 12 March 2024**

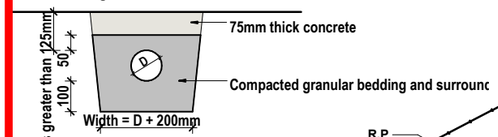
A-01
REVISION



BEDDING TYPE 'B' OF NZS7643
Cover greater than 500mm

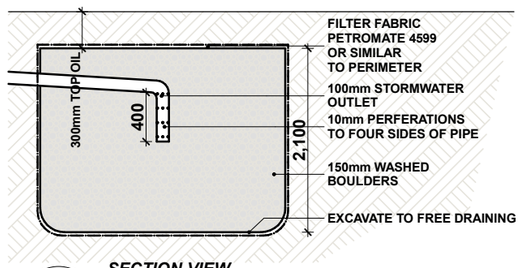


BEDDING TYPE 'D' OF NZS7643
Cover greater than 375mm



COVER BETWEEN 125 & 375mm

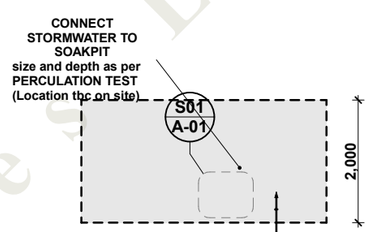
DETAIL **S07** — **DRAINAGE PIPE DETAILS** — SCALE 1:20



SECTION VIEW
SOAK PIT

DETAIL **S01** — SCALE 1:50

SOACK PIT CALCULATIONS
ZERO RATED:
Vstore = R.C - Vsoak (Zero)
R.C = 10 coett x Rain intensity x Roof area x hard standing
= 10x0.9x27xA
E1-Vm1 9.0.6
Roak filled Soak pit.
Volume of Soak Pit.
= Vstore devided by 0.38
Roof area = 226m2
Drive area = 33m2
Total = 259m2
Vstore = 10x0.9x27x0.0259=6.2937
Volume = 6.3937 devided by 0.38 = 16.56m3
soak pit = 4.000x2.000x2.100



STORMWATER & FOULWATER DRAIN LAYOUT INDICATIVE ONLY & MAY BE SUBJECT TO CHANGE
FINAL LAYOUT AS PER ON SITE AS-BUILT PLANS BY DRAINLAYER ON COMPLETION & LODGED WITH COUNCIL

Site/Drainage & Roof Plan

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SITE PLAN & SERVICES LEGEND

DRAINAGE & SITE WORKS

- SEWER DRAINAGE 100mm DIA @ 1:80 GRADIENT
- STORMWATER DRAINAGE 90mm int DIA @ 1:90 GRADIENT
- GULLY TRAP
- I.P — INSPECTION POINT
- R.P — STORMWATER RODDING POINT
- 0.000 — SITE SPOT LEVELS ALL LEVELS TO BE CONFIRMED ON SITE PRIOR TO SETOUT
- COARSE GRAVEL- RUMBLE WASH DOWN AREA FOR VEHICLES
- 75x50 mm DP — 75x50mm COLORSTEEL DP

NOTE:
THERMAL MOVEMENT OF PIPES SHALL BE IN ACCORDANCE WITH G13/AS1 AND NZS 7643

SEDIMENT CONTROL

DOWNPIPES TO BE CONNECTED AS SOON AS ROOF IS FITTED AND DRAINS ARE LAYED. (TEMPORARY IF EXTERIOR CLADDING IS NOT FITTED)

PROJECT MANAGER OR FOREMAN TO OVERSEE SEDIMENT CONTROL.

DRAINS UNDER THE BUILDING SHALL BE
STRAIGHT AND OF EVEN GRADIENT
SEPERATED FROM THE BUILDING FOUNDATION BY AT LEAST 25mm
WHEN PASSING THROUGH CONCRETE BE SLEEVED OR WRAPPED IN A DURABLE AND FLEXIBLE MATERIAL TO ALLOW FOR EXPANSION AND CONTRACTION
IN ADDITION DRAINS UNDER A CONCRETE FLOOR SLAB SHALL HAVE 50mm CLEARANCE TO THE UNDERSIDE OF THE SLAB & JUNCTIONS UNDER THE BUILDING JOINING AT AN ANGLE OF NOT MORE THAN 45°

SPOUTING CATCHMENT AREA CALCULATION

RAINFALL INTENSITY APPENDIX A E1/AS1	= 85mm/hr
GUTTER CROSS SECTION	= 5800mm² min
MAX. ROOF AREA FIGURE 15 E1/AS1	= 54m²
MAX USED	= 54m²
GUTTER TO BE COLORSTEEL FASCIA & GUTTER SYSTEM	
DOWNPIPE MIN. SIZE FOR ROOF AREA	
TABLE 5 E1/AS1 25-35°	= 75x50mm

GUTTER GRADIENTS - E1/AS1
clause 5.1.3 - GUTTERS SHALL FALL TO AN OUTLET

1:100

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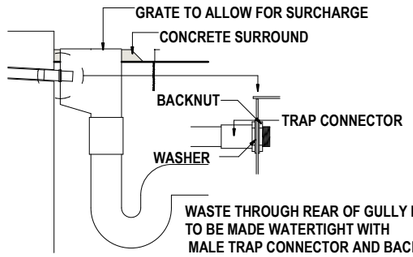
LOT 27 KERSEY PARK DARFIELD

THE OWNERS ACCEPT AND CONFIRM THAT THESE ARE THE FULL AND FINAL DRAWINGS
Signed: Date:

LICENSED BUILDING PRACTITIONER www.dbh.govt.nz BUILDING CONFIDENCE

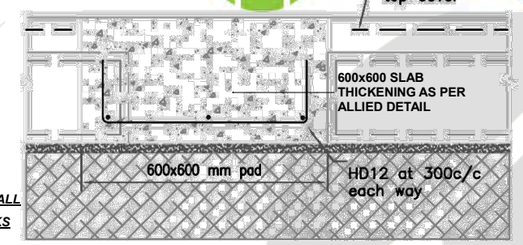
SITE DRAINAGE & ROOF PLAN
JOB NO:**1430823**
ORIGINAL SHEET SIZE **A3**
DRAWN: **SHAUN HALPINE**
PRINTED: **Tuesday, 12 March 2024**
A-02
REVISION

WASTE SLEEVED THROUGH CONCRETE FOUNDATION



5.8 Additional requirements for drains installed under buildings
5.8.1 Drains installed under buildings shall be:
a) Straight and of even gradient,
b) Separated from the building foundation by at least 25 mm, and
c) When passing through concrete, sleeved or wrapped in a durable and flexible material to allow for expansion and contraction.
5.8.2 Drains passing beneath buildings with a concrete slab on the ground floor shall have in addition to Paragraph 5.8.1:
a) 50 mm clearance from the top of the pipe to the underside of the slab, and
b) Junctions beneath the building joining at an angle of not more than 45 degrees

DETAIL S07 — DRAINAGE PIPE DETAILS
SCALE 1:20



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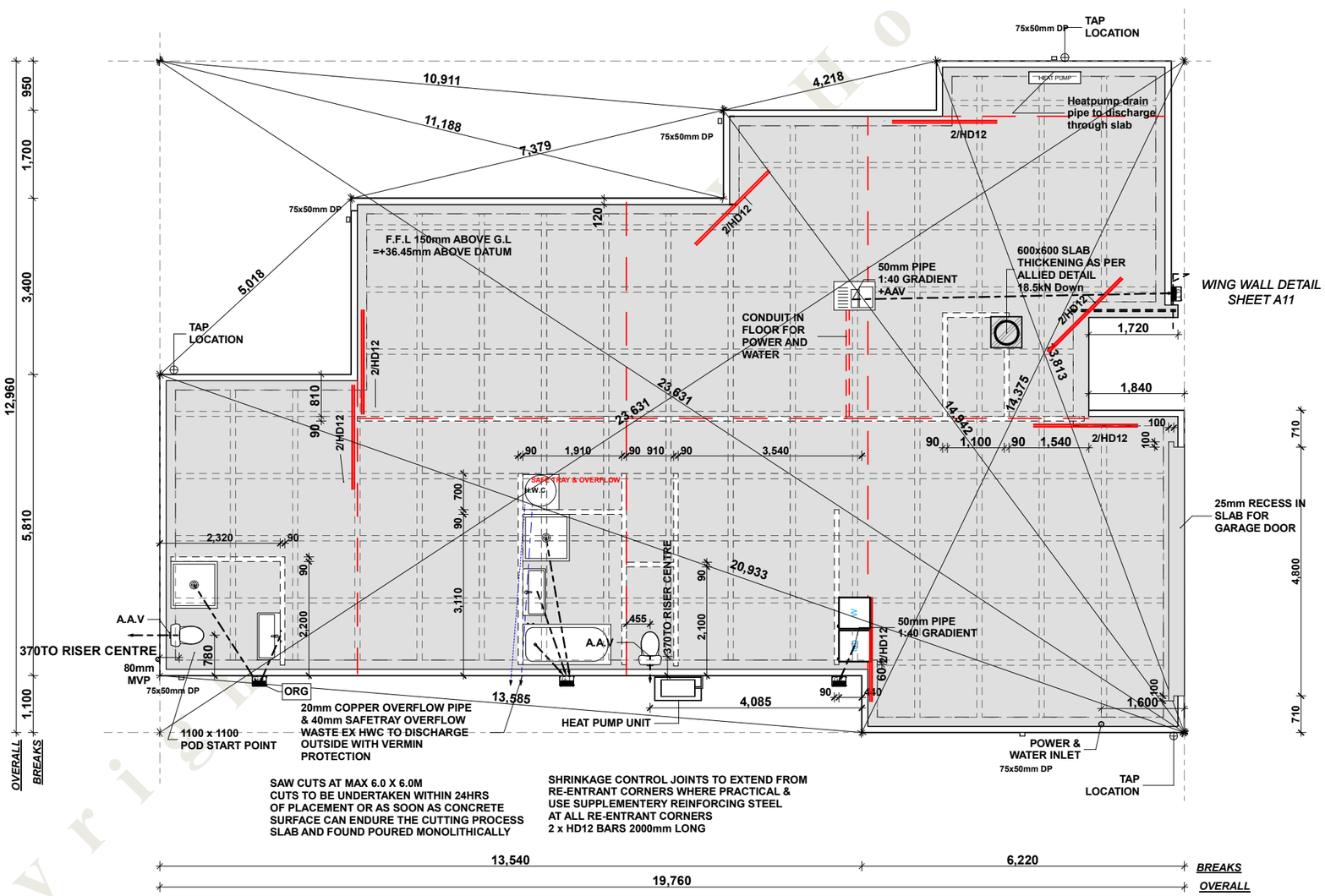
WASTE DISCHARGING TO REAR OF GT

OVERALL 19,640
BREAKS 3,690 | 7,180 | 4,110 | 4,530 | 130

305mm ALLIED SUPERSLAB AS PER CODEMARK CERTIFICATE GM-CM30086

SLAB THICKENING AS PER TRUSS DESIGN CERTIFICATE
-FOR POINT LOADS NOT EXCEEDING 13kN
SLAB THICKENING IS NOT REQUIRED

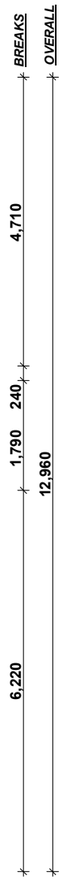


SAW CUTS AT MAX 6.0 X 6.0M
CUTS TO BE UNDERTAKEN WITHIN 24HRS OF PLACEMENT OR AS SOON AS CONCRETE SURFACE CAN ENDURE THE CUTTING PROCESS SLAB AND FOUND POURED MONOLITHICALLY

SHRINKAGE CONTROL JOINTS TO EXTEND FROM RE-ENTRANT CORNERS WHERE PRACTICAL & USE SUPPLEMENTERY REINFORCING STEEL AT ALL RE-ENTRANT CORNERS
2 x HD12 BARS 2000mm LONG

Foundation & Plumbing Plan

SECTION X–X



FLOOR & FOUNDATIONS LEGEND

FLOOR & FOUNDATIONS

- CONCRETE SAW CUTS AS INDICATED ON PLAN
- 85mm THICK CONCRETE SLAB REFER TO DETAILS
- REINFORCING MESH TO AREAS INDICATED ON PLAN REFER TO DETAILS
- 1100x1100mm PODS WITH 300mm WIDE PERIMETER FOOTING AND 100mm WIDE RIBS IN EACH DIRECTION ON DPM ON 20mm MAX COMPACTED SAND BLINDING ON SE62 COMPACTED HARDFILL TO MAX 150mm LAYERS TO SUIT F.F.L WERE REQUIRED REFER TO DETAILS
- 2/HD12 — 2/HD12 BARS CORNER REINFORCING 2000mm LONG

DRAINAGE

- ALL WASTE PIPES IN SLAB TO BE 40mm DIAMETER AND HAVE A GRADIENT OF 1:40 (UNLESS NOTED)
- W.C WASTE PIPE TO BE 80mm @ 1:60 FALL
- GULLY TRAP — ALL FIXTURES 3500mm AWAY FROM GULLY TRAPS OR OVERFLOW RELIEF GULLIES SHALL BE FITTED WITH AIR ADMITTANCE VALVES.
- DN20mm MIN COPPER OVERFLOW PIPE

NOTE:

-ALL PLUMBING AND DRAINAGE WORK TO BE IN ACCORDANCE WITH NZBC G13

PLUMBING FITTINGS

- TAP — EXTERIOR TAP LOCATION TO BE CONFIRMED
- 75x50mm DP — DOWNPIPE
- 80mm MVP — 80mm MAIN VENT PIPE
- SELECTED SHOWERS
- SELECTED VANITIES
- SELECTED BATH
- SELECTED TOILET SUITE

All plans are to be read in conjuntion with the specification & Engineer's details The Contractor shall verify all dimensions on site before commencing work. Written dimensions are to be taken priority over scaled dimensions.

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LOT 27 KERSEY PARK DARFIELD

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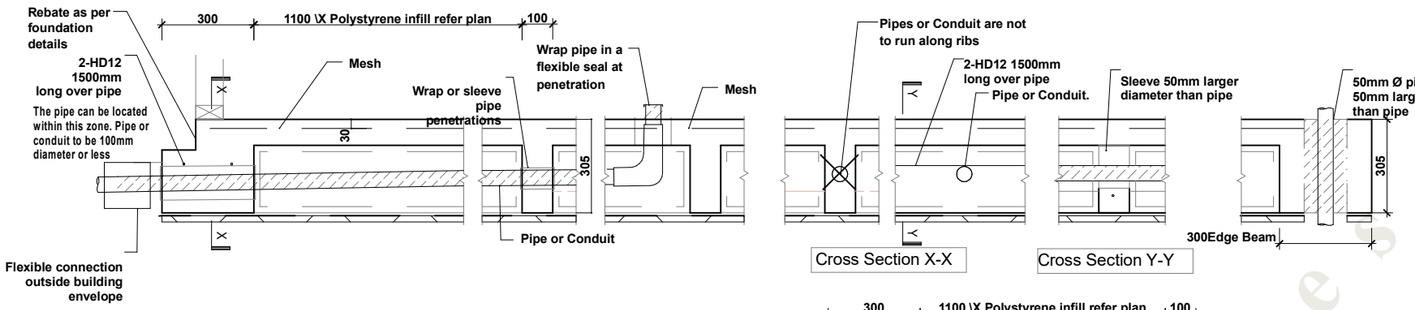
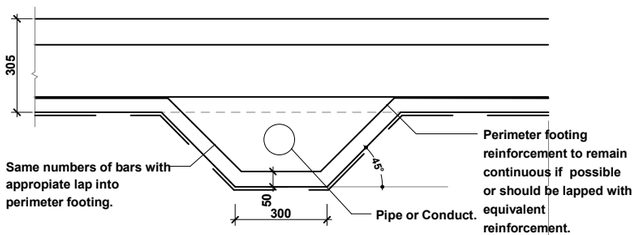
FOUNDATION & PLUMBING PLAN
JOB NO:1430823
ORIGINAL SHEET SIZE A3
DRAWN: SHAUN HALPINE
PRINTED: Tuesday, 12 March 2024
1:100
A-03
REVISION

Pipe Penetration Details For High Seismic Zones
Refer to MBIE Guideline Section A figure S14 & S15 and building code clause G13

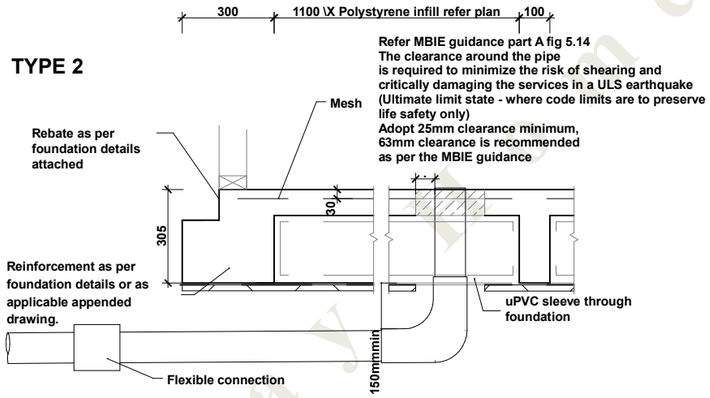
TYPE 1

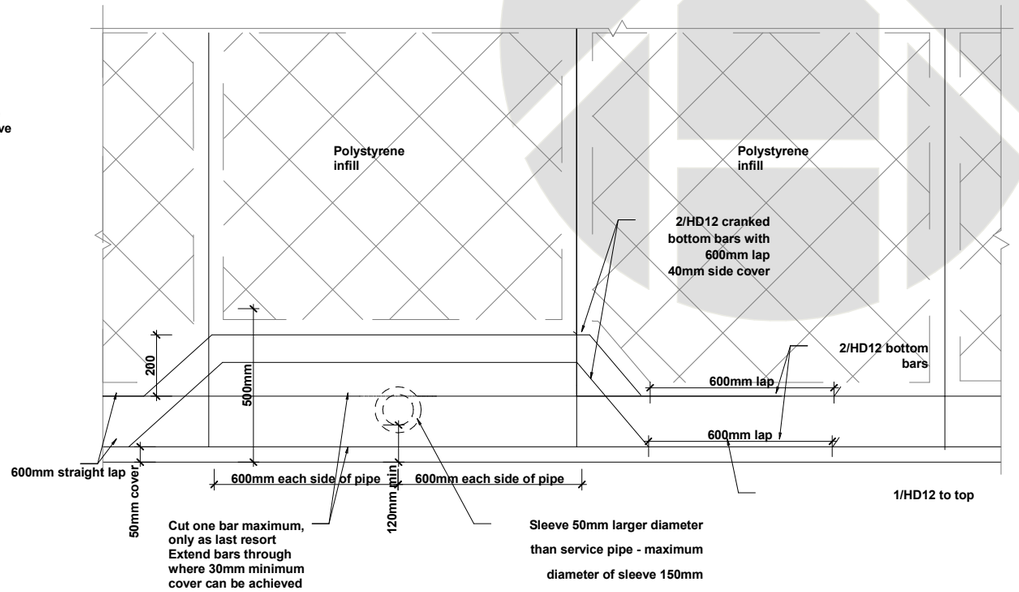




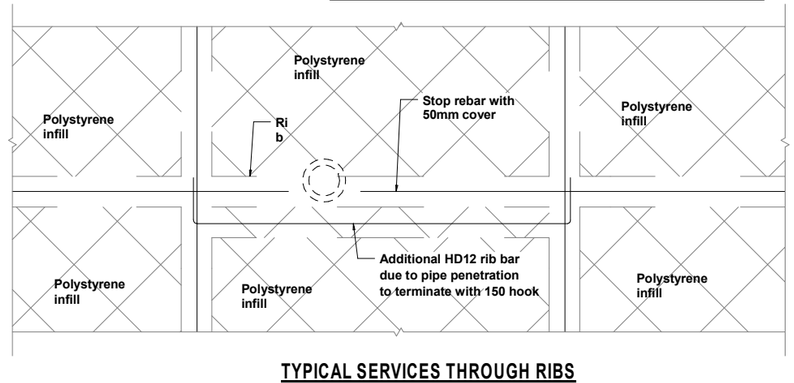
Typical deepened edge penetration detail for Type 1 for pipes larger then 50mm diameter (100mm diameter max.)

TYPE 2

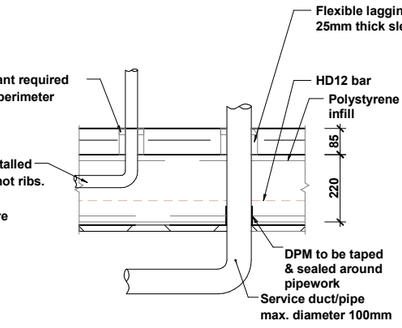




TYPICAL SERVICES THROUGH PERIMETER FOOTING

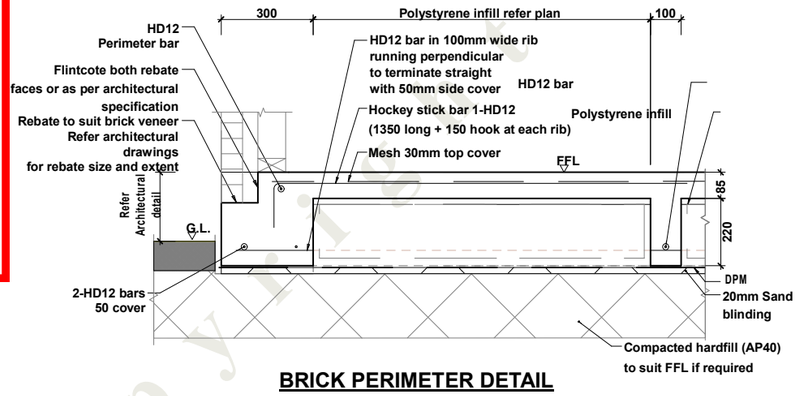


TYPICAL SERVICES THROUGH RIBS



TYPICAL SERVICES PENETRATIONS DETAIL

Typical Corner Laps Detail



BRICK PERIMETER DETAIL

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FOUNDATION DETAILS

JOB NO:**1430823**
ORIGINAL SHEET SIZE **A3**
DRAWN: **SHAUN HALPINE**
PRINTED: **Tuesday, 12 March 2024**

A-04
REVISION

SLAB AREAS

	Area (m2)	Perimeter (mm)
HOUSE	151.18	63,102
OVER FOUNDATION	191.55	68,982
OVER GARAGE	40.37	25,940
OVER ROOF	226.59	69,280
THERMAL ENVELOPE	140.06	61,060

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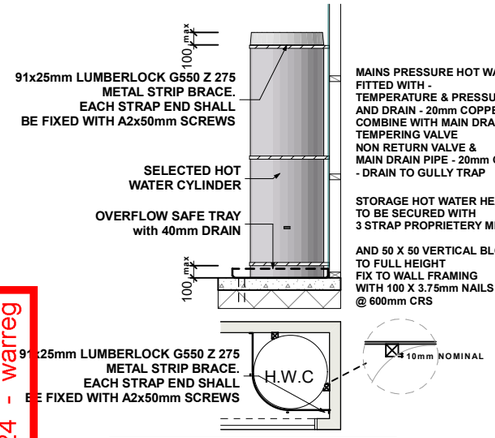


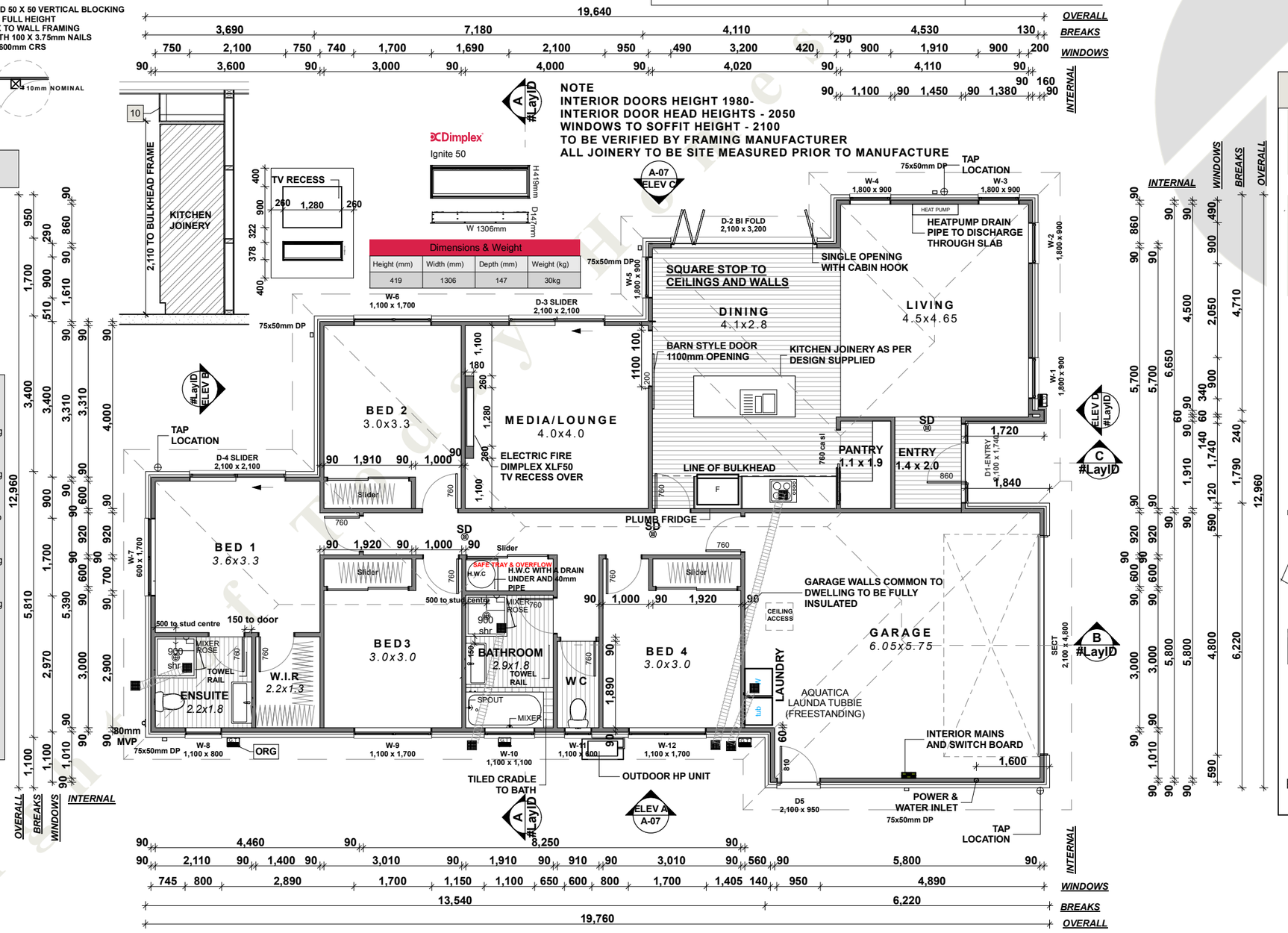
HWC SEISMIC RESTRAINT

MAINS PRESSURE HOT WATER HEATER FITTED WITH - TEMPERATURE & PRESSURE RELIEF VALVE AND DRAIN - 20mm COPPER COMBINE WITH MAIN DRAIN TEMPERING VALVE NON RETURN VALVE & MAIN DRAIN PIPE - 20mm COPPER - DRAIN TO GULLY TRAP

STORAGE HOT WATER HEATER TO BE SECURED WITH 3 STRAP PROPRIETERY METAL BRACES

AND 50 X 50 VERTICAL BLOCKING TO FULL HEIGHT FIX TO WALL FRAMING WITH 100 X 3.75mm NAILS @ 600mm CRS

NOTE
INTERIOR DOORS HEIGHT 1980-
INTERIOR DOOR HEAD HEIGHTS - 2050
WINDOWS TO SOFFIT HEIGHT - 2100
TO BE VERIFIED BY FRAMING MANUFACTURER
ALL JOINERY TO BE SITE MEASURED PRIOR TO MANUFACTURE



FINISHING SCHEDULE TO WET AREAS TO FLOORS

Bathroom: Vinyl floor on Float concrete finish, junction to skirting to be sealed using Mapeisil Flexible Silicon with mould inhibitors.

Ensuite: Vinyl floor on Float concrete finish, junction to skirting to be sealed using Mapeisil Flexible Silicon with mould inhibitors.

Laundry: Vinyl floor on Float concrete finish, junction of floor to skirting to be sealed using Mapeisil Flexible Silicon with mould inhibitors.

Toilet: Vinyl floor on Float concrete finish, junction to skirting to be sealed using Mapeisil Flexible Silicon with mould inhibitors.

Kitchen: Vinyl floor on Float concrete finish, junction to skirting to be sealed using Mapeisil Flexible Silicon with mould inhibitors.

PAINTING TO WET AREAS

Bathroom, Ensuite, Laundry & WC.

Walls: 10mm Gib Aqualine fixed as per manufacturers instructions , stopped to level 4 paint finish. 1 coat of water based sealer and 2 coats of water based Enamel paint with mould inhibitors to all surfaces in the wet areas.

FLOOR PLAN LEGEND

WALL FRAMING AND CEILINGS

- 10mm GIB BOARD ON 90mm H1.2 FRAMING
- CEILING 2.400 — 13mm GIB BOARD CHANGE IN CEILING HEIGHT TO AREAS NOTED. (IF NOT NOTED HEIGHT TO BE 2.400mm REFER ALSO TO CROSS SECTIONS)
- ROOF OVER INDICATING FASCIA AND GUTTER LINE

FLOOR COVERINGS

- SELECTED CARPET TO THESE AREAS
- SELECTED TILES TO THESE AREAS
- SELECTED VINYL TO THESE AREAS
- GARAGE CARPET TO THESE AREAS

PLUMBING FITTINGS

- TAP — EXTERIOR TAP LOCATION
- GULLY TRAP
- 75x50mm DP — DOWNPIPE
- MVP — MAIN VENT PIPE
- MIXER / ROSE / shr — SELECTED SHOWER
- SELECTED VANITIES
- SELECTED BATH
- SELECTED TOILET SUITE

UTILITY FITTINGS

- SB — MAIN DISTRIBUTION BOARD
- METER BOARD
- MACHANICAL VENT WITH FLEXI DUCT TO SOFFIT
- SMOKE DETECTOR WITH HUSH BUTTON

Ground Floor Plan

All plans are to be read in conjuntion with the specification & Engineer's details. The Contractor shall verify all dimensions on site before commencing work. Written dimensions are to be take priority over scaled dimensions.

1:100

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LOT 27 KERSEY PARK DARFIELD

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GROUND FLOOR PLAN
JOB NO: 1430823
ORIGINAL SHEET SIZE A3
DRAWN: SHAUN HALPINE
PRINTED: Tuesday, 12 March 2024

A-05
REVISION

BRACING CALCULATIONS

TABLE: Single

Location of Storey	*Single*	Wind Zone	*High*
Room in Roof Space	*No*	Earthquake Zone	*2*
Roof Width (RW)	*13.5m*	Soil Class	*D - Deep or Soft*
Roof Length (RL)	*20.0m*		
Gross Floor Area (GFA)	*190.00m²*	W along	*60.0BU/m*
Floor Height to Apex	*5m*	W along x RW	*810.0BU*
Roof Height Above Eaves	*3m*	W across	*60.0BU/m*
Roof Pitch	*26 - 45°*	W across x RL	*1,201.2BU*
Roof Style	*Hip*		
Double Top Plate	*Yes*	EQ	*7.2BU/m²*
Floor Load	*2kPa*	EQ x GFA	*1,368.0BU*
Cladding Weights:			
Subfloor	*Concrete Floor*		
Wall	*Heavy*		
Roof	*Light*		

Calculations based on *NZS3604:2011*

BRACING ALONG

Line	Required W BU	Required EQ BU	Brace	Type	Provided W BU/m	Provided EQ BU/m	Length m	Height m	Angle	Achieved W BU	Achieved EQ BU
	26.0	136.8	*A-1*	*EP1 0.4*	*80.0*	*95.0*	*0.4*	*2.4*	-	*32.0*	*38.0*
			A-2	*EP1 0.4*	*80.0*	*95.0*	*0.4*	*2.4*	-	*32.0*	*38.0*
			A-3	*EP1 1.2*	*120.0*	*135.0*	*1.9*	*2.4*	-	*229.2*	*257.9*
										293.2	333.9
	07.7	136.8	*B-1*	*EP1 0.6*	*95.0*	*105.0*	*0.6*	*2.4*	-	*57.0*	*63.0*
			B-2	*EP1 0.6*	*95.0*	*105.0*	*0.9*	*2.4*	-	*85.5*	*94.5*
										142.5	157.5
C	246.0	246.0	*C-1*	*GS1-N*	*50.0*	*55.0*	*0.6*	*2.4*	-	*30.0*	*33.0*
			C-2	*EP1 0.6*	*95.0*	*105.0*	*0.6*	*2.4*	-	*57.0*	*63.0*
			C-3	*GS1-N*	*50.0*	*55.0*	*1.1*	*2.4*	-	*55.0*	*60.5*
			C-4	*EP1 1.2*	*120.0*	*135.0*	*1.2*	*2.4*	-	*144.0*	*162.0*
			C-5	*EP1 1.2*	*120.0*	*135.0*	*1.2*	*2.4*	-	*144.0*	*162.0*
										430.0	480.5
D	00.0	136.8	*D-1*	*GS1-N*	*50.0*	*55.0*	*0.9*	*2.4*	-	*45.0*	*49.5*
			D-2	*GS1-N*	*70.0*	*60.0*	*1.2*	*2.4*	-	*84.0*	*72.0*
			D-3	*GS1-N*	*70.0*	*60.0*	*1.9*	*2.4*	-	*134.4*	*115.2*
										263.4	236.7
E	292.8	292.8	*E-1*	*EP1 0.6*	*95.0*	*105.0*	*0.6*	*1.2*	-	*57.0*	*63.0*
			E-2	*EP1 0.6*	*95.0*	*105.0*	*0.6*	*1.2*	-	*57.0*	*63.0*
			E-3	*EP1 0.6*	*95.0*	*105.0*	*0.6*	*1.2*	-	*57.0*	*63.0*
			E-4	*EP1 1.2*	*120.0*	*135.0*	*1.2*	*1.2*	-	*144.0*	*162.0*
			E-5	*EP1 1.2*	*120.0*	*135.0*	*1.2*	*1.2*	-	*144.0*	*162.0*
			E-6	*EP1 1.2*	*120.0*	*135.0*	*1.2*	*1.2*	-	*144.0*	*162.0*
										603.0	675.0
			Total							**Achieved**	**1,732.1**	**1,883.6**
										Required	**810.0**	**1,368.0**

BRACING ACROSS

Line	Required W BU	Required EQ BU	Brace	Type	Provided W BU/m	Provided EQ BU/m	Length m	Height m	Angle	Achieved W BU	Achieved EQ BU
M	90.8	190.8	*M-1*	*EP1 0.4*	*80.0*	*95.0*	*0.4*	*2.4*	-	*32.0*	*38.0*
			M-2	*EP1 1.2*	*120.0*	*135.0*	*1.2*	*2.4*	-	*144.0*	*162.0*
			M-3	*BLP-H*	*135.0*	*135.0*	*0.4*	*2.4*	-	*54.0*	*54.0*
			M-4	*BLP-H*	*135.0*	*135.0*	*0.4*	*2.4*	-	*54.0*	*54.0*
										284.0	308.0
N	90.8	190.8	*N-1*	*EP1 0.6*	*95.0*	*105.0*	*0.9*	*2.4*	-	*81.7*	*90.3*
			N-2	*GS1-N*	*70.0*	*60.0*	*3.0*	*2.4*	-	*208.4*	*178.7*
			N-3	*EP1 0.6*	*95.0*	*105.0*	*0.6*	*0.6*	-	*57.0*	*63.0*
										347.1	332.0
O	00.1	114.0	*O-1*	*GS1-N*	*70.0*	*60.0*	*1.2*	*2.4*	-	*84.0*	*72.0*
			O-2	*GS1-N*	*70.0*	*60.0*	*3.6*	*2.4*	-	*252.0*	*216.0*
										336.0	288.0
P	00.1	114.0	*P-1*	*GS1-N*	*70.0*	*60.0*	*1.2*	*2.4*	-	*84.0*	*72.0*
			P-2	*GS1-N*	*70.0*	*60.0*	*1.2*	*2.4*	-	*84.0*	*72.0*
										168.0	144.0
Q	00.1	114.0	*Q-1*	*EP1 1.2*	*120.0*	*135.0*	*1.2*	*2.4*	-	*144.0*	*162.0*
			Q-2	*EP1 1.2*	*120.0*	*135.0*	*1.2*	*2.4*	-	*144.0*	*162.0*
			Q-3	*GS1-N*	*70.0*	*60.0*	*1.2*	*2.4*	-	*84.0*	*72.0*
										372.0	396.0
R	00.1	114.0	*R-1*	*EP1 0.6*	*95.0*	*105.0*	*0.6*	*2.4*	-	*57.0*	*63.0*
			R-2	*TP1*	*110.0*	*125.0*	*1.2*	*2.4*	-	*132.0*	*150.0*
										189.0	213.0
			Total							**Achieved**	**1,696.1**	**1,681.0**
										Required	**1,201.2**	**1,368.0**

BRACING & LINTEL PLAN LEGEND

WALL FRAMING AND CEILINGS

10mm GIB BOARD ON 90mm H1.2 FRAMING

ROOF OVER INDICATING FASCIA AND GUTTER LINE

BRACING TYPES

BRACING TYPE / *GRID* — A1 / EP1 / 1.2 / *BRACING LENGTH*

BRACING ELEMENTS AS PER MANUFACTURER SPECIFICATIONS AND DETAILS

C1/ BL1/1.2 — GIB BRACING TO THE MANUFACTURERS INSTRUCTIONS.

B1/EP1/0.6 — 7mm ECOPLY ONE SIDE

B1/GS1/0.4 — GIB BRACING TO THE MANUFACTURERS INSTRUCTIONS.

NOTE:

-ALL DIMENSIONS SHALL BE VERIFIED ON SITE.

-GRID LINES ARE FOR THE PURPOSE OF THE BRACING PLAN ONLY.

REFER ALSO TO
GIB EZYBRACE SYSTEMS 2011

-TRUSS PLAN TO BE SUPPLIED BY TRUSS MANUFACTURER REFER TO THIS FOR LINTEL SIZES AND TIMBER FIXING DETAILS

-ALL TIMBER TO BE **MSG 8**

N O T E:

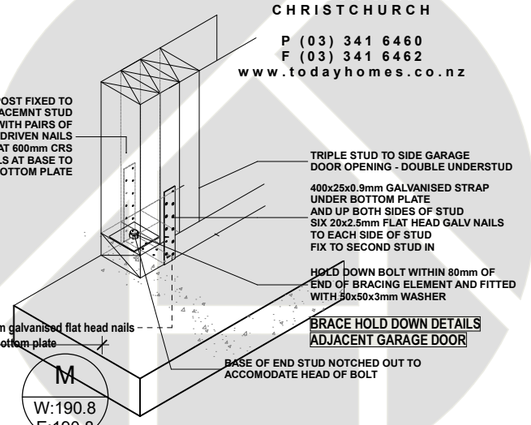
WIND ZONE: **HIGH**

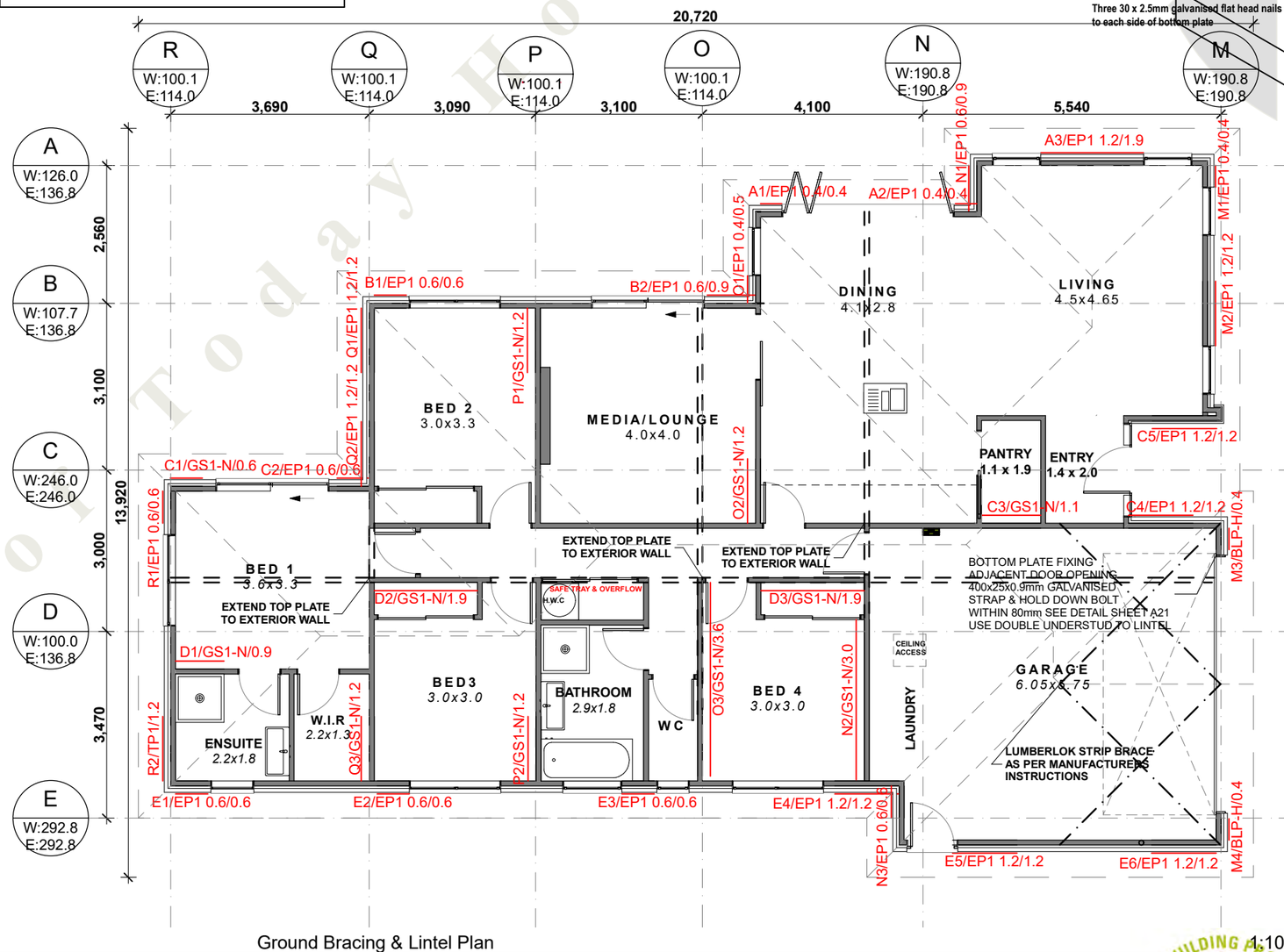
REGION: **ZONE A**

EARTHQUAKE ZONE: **2**

SNOW ZONE: **4**

EACH WALL THAT CONTAINS ONE OR MORE BRACING ELEMENTS SHALL BE CONNECTED AT TOP PLATE LEVEL TO EXTERNAL WALLS AT RIGHT ANGLES TO IT WITH
6kN CONNECTION WHERE BU's NOT MORE THAN 125
FIX WITH 6/30X3.15mm NAILS PER SIDE -(FIX TO ONE EXT WALL)
2X6kN CONNECTION WHERE BU's NOT MORE THAN 250
FIX WITH 6/30X3.15mm NAILS PER SIDE -(FIX TO TWO EXT WALLS)
WALLS WITH BU's > 250 FIX WITH 2.4kN PER 100 BU's-
(FIX TO TWO EXT WALLS)





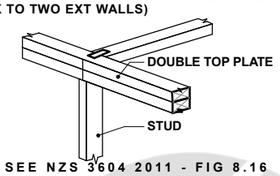
Ground Bracing & Lintel Plan 1:100

THE CONNECTION IN LINE OF A TOP PLATE IN A WALL THAT CONTAINS BRACING ELEMENTS SHALL HAVE A 3kN CONNECTION WHERE BU's LESS THAN 100 IN HIGHEST RATED BRACE PANEL FIX WITH 3/30X3.15mm NAILS PER SIDE AND 6kN CONNECTION WHERE BU'S MORE THAN 100 IN HIGHEST RATED BRACE PANEL FIX WITH 6/30X3.15mm NAILS PER SIDE

SEE NZS 3604 2011 - FIG 8.15

TOP PLATE DETAILS

EACH WALL THAT CONTAINS ONE OR MORE BRACING ELEMENTS SHALL BE CONNECTED AT TOP PLATE LEVEL TO EXTERNAL WALLS AT RIGHT ANGLES TO IT WITH
6kN CONNECTION WHERE BU's NOT MORE THAN 125
FIX WITH 6/30X3.15mm NAILS PER SIDE -(FIX TO ONE EXT WALL)
2X6kN CONNECTION WHERE BU's NOT MORE THAN 250
FIX WITH 6/30X3.15mm NAILS PER SIDE -(FIX TO TWO EXT WALLS)
WALLS WITH BU's > 250 FIX WITH 2.4kN PER 100 BU's-
(FIX TO TWO EXT WALLS)



SEE NZS 3604 2011 - FIG 8.16

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GROUND BRACING

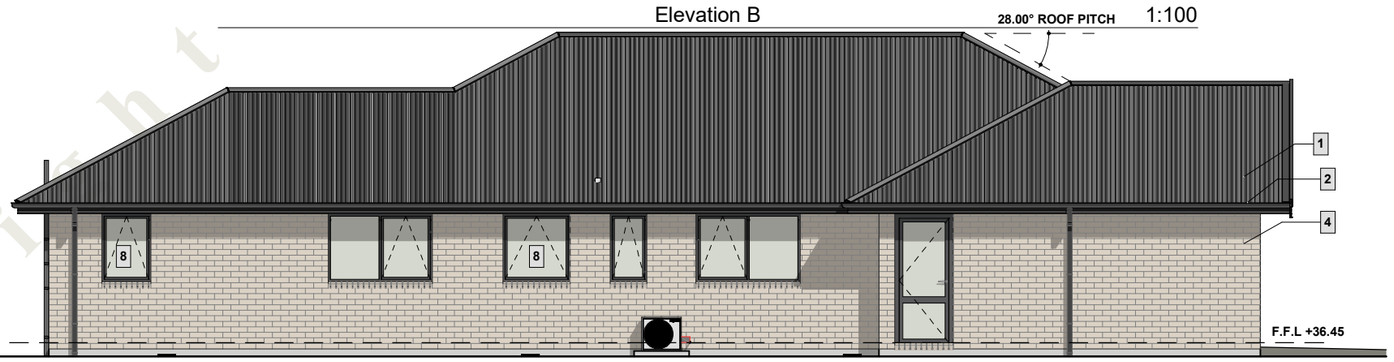
JOB NO: **1430823**
ORIGINAL SHEET SIZE **A3**
DRAWN: **SHAUN HALPINE**
PRINTED: **Tuesday, 12 March 2024**

A-06
REVISION

Elevation D 1:100

Elevation C 1:100

Elevation B 1:100



Elevation A 1:100

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ELEVATIONS LEGEND

ROOF

1. SELECTED LONG RUN ROOF CLADDING
2. SELECTED METAL FASCIA AND COLOURSTEEL GUTTER
3. COLORSTEEL DOWNPIPES

WALLS

4. 70 SERIES BRICK WALL CLADDING
5. SELECTED ENTRY DOOR AND SIDELIGHT IN ALUMINIUM FRAME
6. SELECTED SECTIONAL GARAGE DOOR
7. SELECTED GLAZED ALUMINIUM WINDOWS AND DOORS
8. SAFTY GLASS AS PER NZS4223/2016
9. HARDIES LINEA WEATHERBOARD CLADDING

NOTE:

-ALL WINDOW AND DOOR JOINERY TO BE SITE MEASURED WERE NECESSARY PRIOR TO MANUFACTURE.

-CONFIRM SOFFIT HEIGHT WITH TRUSS MANUFACTURER.

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ELEVATIONS

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A-07

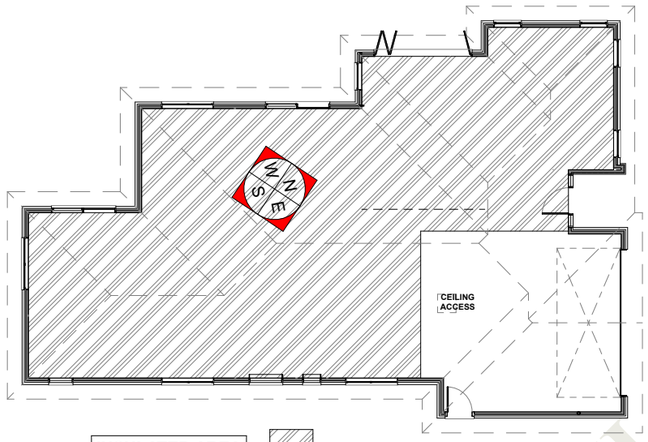
REVISION

BUILDING ENVELOPE RISK MATRIX		
NORTH		
Risk Factor	**Risk Severity**	**Risk Score**
Wind zone (per NZS 3604)	High risk	1
Number of storeys	Low risk	0
Roof/wall intersection design	Low risk	0
Eaves width	Medium risk	1
Envelope complexity	Low risk	0
Deck design	Low	0
Total Risk Score:		**2**

BUILDING ENVELOPE RISK MATRIX		
EAST		
Risk Factor	**Risk Severity**	**Risk Score**
Wind zone (per NZS 3604)	High risk	1
Number of storeys	Low risk	0
Roof/wall intersection design	Low risk	0
Eaves width	Medium risk	1
Envelope complexity	Low risk	0
Deck design	Low	0
Total Risk Score:		**2**

BUILDING ENVELOPE RISK MATRIX		
SOUTH		
Risk Factor	**Risk Severity**	**Risk Score**
Wind zone (per NZS 3604)	High risk	1
Number of storeys	Low risk	0
Roof/wall intersection design	Low risk	0
Eaves width	Medium risk	1
Envelope complexity	Low risk	0
Deck design	Low	0
Total Risk Score:		**2**

BUILDING ENVELOPE RISK MATRIX		
WEST		
Risk Factor	**Risk Severity**	**Risk Score**
Wind zone (per NZS 3604)	High risk	1
Number of storeys	Low risk	0
Roof/wall intersection design	Low risk	0
Eaves width	Medium risk	1
Envelope complexity	Low risk	0
Deck design	Low	0
Total Risk Score:		**2**



INSULATED AREA 140.06 m²

H1 ENERGY EFFICIENCY: CLIMATE ZONE 5

CALCULATION METHOD - REFER CALCULATION DOCUMENTS

CONSTRUCTION TYPE: **NON SOLID**

ROOF: 28 DEGREE COLORSTEEL LONGRUN
ON 90x45 TRUSSES @ 900mm CRS.

WALLS: 70 SERIES BRICK VENEER 50mm CAVITY 90mm TIMBER FRAME STUDS @ CRS AND DWANGS @ 800mm CRS.

FLOOR: CONCRETE RAFT FLOOR SUPERSLAB.

GLAZING TYPE: THERMALLY BROKEN DOUBLE GLAZED ALUMINIUM WITH LOW E4 GLASS
& ARGON GAS - NO SKYLIGHTS

TOTAL WALL AREA:
TOTAL EXTERNAL INSULATED WALLS - THERMAL ENVELOPE **= 155.1 M²**
TOTAL OF WINDOW AND DOOR OPENINGS **= 35M²**
TOTAL OPAQUE DOORS = **1.8M²**
PERCENTAGE OF OPENINGS TO WALL AREA **= 23.7%**

//INSULATION TYPE:
INSULATION TO CEILINGS WILL BE 2 LAYERS GLASS WOOL BATTS **R 3.6** WITH 1 LAYER TO 400mm PERIMETER
ROOF SPACE CONSTRUCTION R VALUE = 6.7
INSULATION TO WALLS WILL BE GLASS WOOL BATTS **R 2.6**
CONSTRUCTION R VALUE = 2.0
WINDOWS AND DOORS TO BE ALUMINIUM DOUBLE GLAZED
TO ALLOW FOR **R0.50**
CONCRETE RAFT SUPERSLAB ON GROUND (300mm WIDE PERIMETER)
CONSTRUCTION R = 1.47
CONSTRUCTION R VALUES DERIVED FROM
BRANZ INSULATION GUIDE 6th EDITION

Building Risk Matrix

1:200

Door Schedule

ID	760	760	760	760 ca sl	D1-ENTRY	D5	D-2 BI FOLD	D-3 SLIDER	D-4 SLIDER	SECT	Slider	
Quantity	1	2	8	1	1	1	1	1	1	1	4	**22**
W x H Size	1,240×2,010	800×2,000	800×2,010	850×2,000	1,740×2,100	950×2,100	3,200×2,100	2,100×2,100	2,100×2,100	4,800×2,100	1,800×2,010	
Head height	2,010	2,000	2,010	2,000	2,100	2,100	2,100	2,100	2,100	2,100	2,010	
2D Symbol												
Area (m2)	2.49	1.60	1.61	0.00	3.65	2.00	6.72	4.41	4.41	10.08	3.62	**64.32 m²**

Window Schedule

ID	W-1	W-2	W-3	W-4	W-5	W-6	W-7	W-8	W-9	W-10	W-11	W-12	
Quantity	1	1	1	1	1	1	1	1	1	1	1	1	**12**
W x H Size	900×1,800	900×1,800	900×1,800	900×1,800	900×1,800	1,700×1,100	1,700×600	800×1,100	1,700×1,100	1,100×1,100	600×1,100	1,700×1,100	
Sill height	300	300	300	300	300	1,000	1,500	1,000	1,000	1,000	1,000	1,000	
Head height	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	2,100	
3D Front View													
Area (m2)	1.62	1.62	1.62	1.62	1.62	1.87	1.02	0.88	1.87	1.21	0.66	1.87	**17.48 m²**

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A-08
REVISION

ALL LINTELS SIZED AS PER MANUFACTURERS DESIGN CERTIFICATE

TRUSS FIXING AND HOLD DOWNS AS PER MANUFACTURERS DESIGN CERTIFICATE or at a minimum as per NZS 3604

TRUSS FIXING @ each truss
2/90x3.75mm SKEWED NAILS PLUS
2/ WIRE DOGS OR 4.7kN ALTERNATE AS REQUIRED BY NZS 3604 2011 TABLE 10.14 - TYPE "E" FIXING

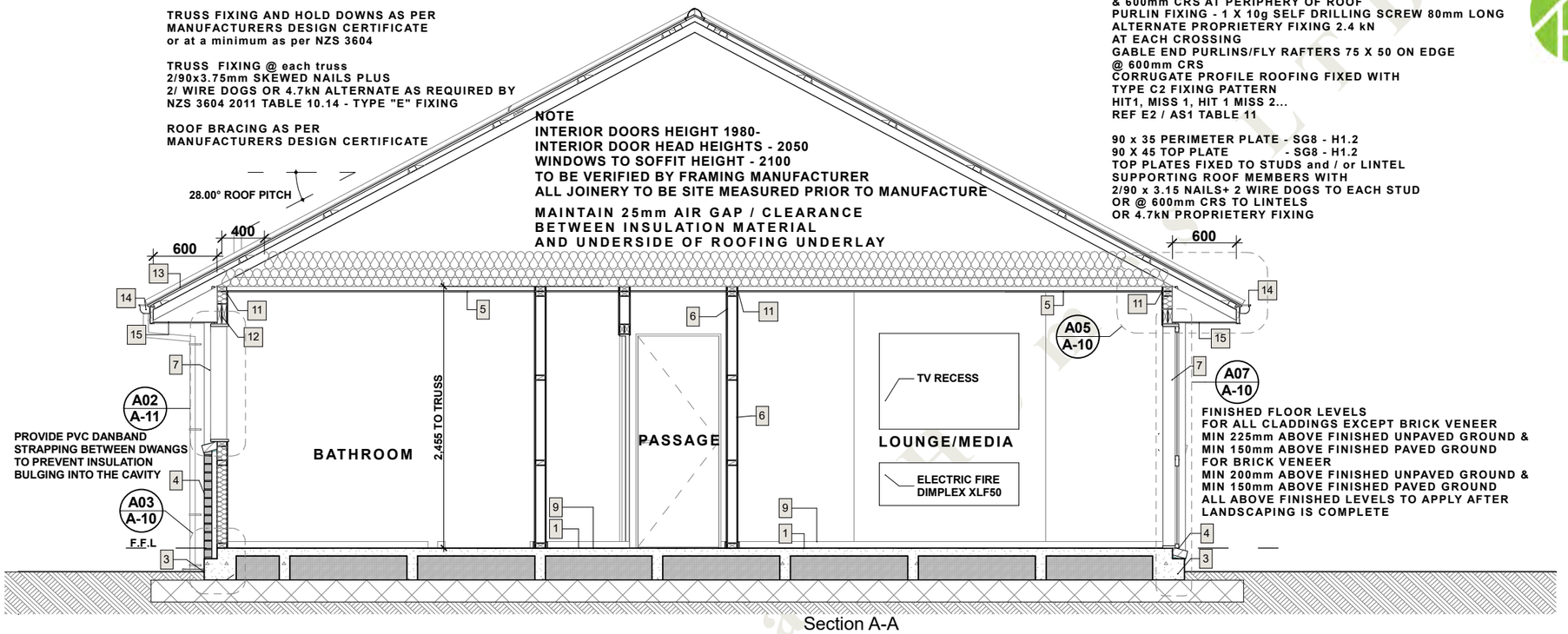
ROOF BRACING AS PER MANUFACTURERS DESIGN CERTIFICATE

NOTE
INTERIOR DOORS HEIGHT 1980-
INTERIOR DOOR HEAD HEIGHTS - 2050
WINDOWS TO SOFFIT HEIGHT - 2100
TO BE VERIFIED BY FRAMING MANUFACTURER
ALL JOINERY TO BE SITE MEASURED PRIOR TO MANUFACTURE

MAINTAIN 25mm AIR GAP / CLEARANCE BETWEEN INSULATION MATERIAL AND UNDERSIDE OF ROOFING UNDERLAY

Ex 75 X 50mm PURLINS H1.2 TREATED
@ 900mm CRS INTERMEDIATE SPANS
& 600mm CRS AT PERIPHERY OF ROOF
PURLIN FIXING - 1 X 10g SELF DRILLING SCREW 80mm LONG
ALTERNATE PROPRIETERY FIXING 2.4 kN
AT EACH CROSSING
GABLE END PURLINS/FLY RAFTERS 75 X 50 ON EDGE
@ 600mm CRS
CORRUGATE PROFILE ROOFING FIXED WITH
TYPE C2 FIXING PATTERN
HIT1, MISS 1, HIT 1 MISS 2...
REF E2 / AS1 TABLE 11

90 x 35 PERIMETER PLATE - SG8 - H1.2
90 X 45 TOP PLATE - SG8 - H1.2
TOP PLATES FIXED TO STUDS and / or LINTEL
SUPPORTING ROOF MEMBERS WITH
2/90 x 3.15 NAILS+ 2 WIRE DOGS TO EACH STUD
OR @ 600mm CRS TO LINTELS
OR 4.7kN PROPRIETERY FIXING



Section A-A

1:50

Table 11: Steel corrugate profiled roofing – 0.4 mm BMT and minimum profile height 16.5 mm
Maximum spans and fixing patterns. Refer to Paragraph 8.4.6

Purlin spacings (metres)		Wind zones		
End span	Intermediate span	Low and Medium	High and Very High	Extra High
0.4	0.6	C2	C2	C2
0.6	0.9	C2	C2	C1
0.8	1.2	C2	C1	C1

NOTE: C1 fixing pattern is – Hit 1, miss 1...
C2 fixing pattern is – Hit 1, miss 1, hit 1, miss 2...

Amend 5 Aug 2011

TIMBER TREATMENT TABLE:

EXTERIOR WALL FRAMING:

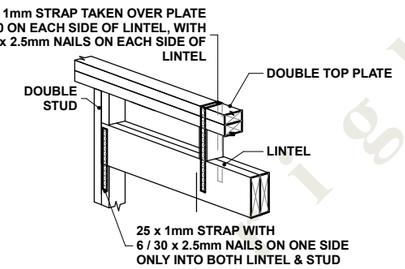
MEMBER:	TIMBER SPECIES AND GRADE:	TREATMENT
FRAMING UNDER SOFFIT	RADIATA PINE - MSG 8 &MSG 6	H1.2

ROOF FRAMING:

MEMBER:	TIMBER SPECIES AND GRADE:	TREATMENT
TRUSSES	RADIATA PINE - MSG 8 & MSG 6	H1.2
FLAT ROOF FRAMING	RADIATA PINE - MSG 8 & MSG 6	H1.2

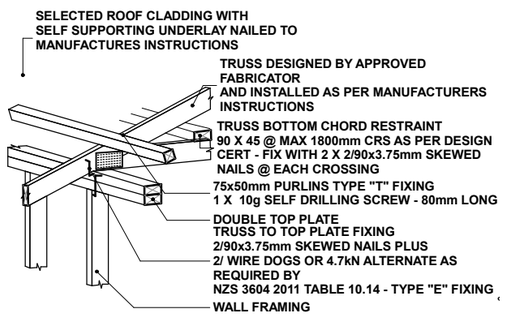
EXTERIOR FINISHING TIMBERS:

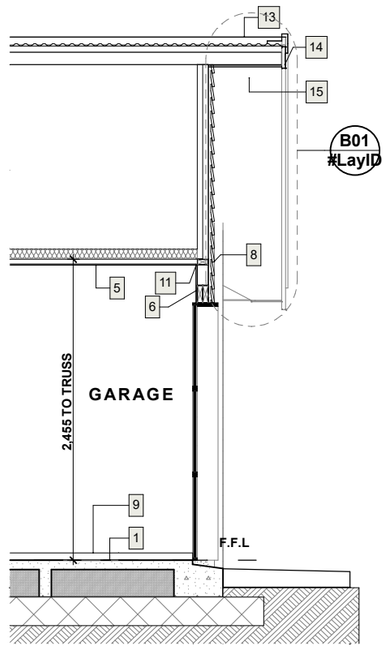
MEMBER:	TIMBER SPECIES AND GRADE:	TREATMENT
GARAGE DOOR REVEAL	RADIATA PINE DRESSING GRADES	H3.2



LINTELS SUPPORTING TRUSSES SHALL BE SECURED AGAINST UPLIFT AS PER TABLE 8.14 NZS 3604 2011 FOR - WIND -HIGH - LIGHT ROOF

LINTEL FIXINGS TO ALL LINTELS SUPPORTING RAFTERS OR TRUSSES





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CROSS SECTIONS LEGEND

FLOOR

1 85mm THICK 20MPa CONCRETE ALLIED SUPER SLAB WITH WIRE PLUS DUCTILE 500E REINFORCING (SUPPLEMENTARY BARS AT RE ENTRANT CORNERS) ON 220mm POLYSTYRENE PODS ON DPM - OVER 25mm SAND BLINDING MIN 150mm DEEP COMPACTED HARDFILL - AP40 **REFER TO ENGINEERS DRAWINGS**

2 M12-120mm TRUBOLT PROPRIETARY HOLD DOWN ANCHORS @ 900mm crs WITH 50 x 50 x 3mm GALV WASHERS AND WITHIN 150mm OF EACH END OF THE PLATE

3 20MPa CONCRETE FOUNDATION FOOTING as per CODEMARK GM-CM30086 ALL REINFORCING STEEL TO BE DUCTILE 500E **REFER TO ENGINEERS DRAWINGS**

WALLS & CEILING

4 70 SERIES BRICK 50mm CAVITY ON BUILDING PAPER ON 90mm H1.2 TIMBER FRAMING WITH STUDS @ SELECTED crs AND DWANGS 800mm crs **REFER TO DETAILS**

5 13mm GIB BOARD CEILING LINING ON METAL BATTENS @ 600mm crs max FIBREGLASS INSULATION TO CEILING CAVITY WERE INDICATED TO BE 2 x **R3.6** IN ACCORDANCE TO ZONE 5 AND THE NZBC CLAUSE H1

6 10mm GIB BOARD WALL LINING ON 90mm TIMBER FRAMING. GIB AQUALINE IN BATHROOMS TO WALLS WITH TILES APPLIED. FIBREGLASS INSULATION TO EXTERIOR WALL CAVITY AND WERE INDICATED. TO BE **R2.6** IN ACCORDANCE TO ZONE 5 AND THE NZBC CLAUSE H1

7 SELECTED POWDER COATED GLAZED ALUMINIUM WINDOWS AND DOORS WITH TIMBER REBATED REVEALS
ALUMINIUM JOINERY DOUBLE GLAZED
STANDARD RESIDENTIAL SUITE=THERMALLY BROKEN
LOW E4 GLASS & ARGON GAS
SAFETY GLAZING TO COMPLY WITH NZS 4223 2016.

8 180x16mm HARDIES LINEA WETHERBOARD ON H3.1 CAVITY BATTENS ON BUILDING PAPER ON 90mm H1.2 TIMBER FRAMING

9 60x12mm MDF SKIRTINGS

10 BULKHEADS AND COVES **WHERE INDICATED** CONSTRUCTED WITH METAL BATTEN FRAME.

11 SQUARE STOP TO CEILINGS

12 LINTEL AS PER NZS3604 2011 ALSO **REFER TO BRACING AND LINTEL PLAN**

ROOF

13 SELECTED CORRUGATED LONG RUN ROOF CLADDING ON ex 75x50mm H1.2 TREATED TIMBER PURLINS ON TRUSSES @ 900mm CRS. **TRUSS LAYOUT AND FIXING SPECIFICATIONS TO BE SUPPLIED BY TRUSS MANUFACTURER.**

14 SELECTED METAL FASCIA AND GUTTER SYSTEM

15 4.5mm THICK HARDIFLEX SOFFIT LINING WITH PVC JOINTERS

16 COLORSTEEL DOWNPIPES

NOTE:

-ALL WINDOW AND DOOR JOINERY TO BE SITE MEASURED WHEN NECESSARY PRIOR TO MANUFACTURE

-CONFIRM SOFFIT HEIGHT WITH TRUSS MANUFACTURER

-REFER ALSO TO WINDOW AND DOOR SCHEDULE.

-ALL TIMBER TO BE MSG 8 FOR STRUCTURAL AND MSG 6 FOR NON-STRUCTURAL

All plans are to be read in conjuntion with the specification & Engineer's details The Contractor shall verify all dimensions on site before commencing work. Written dimensions are to be take priority over scaled dimensions.

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CROSS SECTIONS A & B

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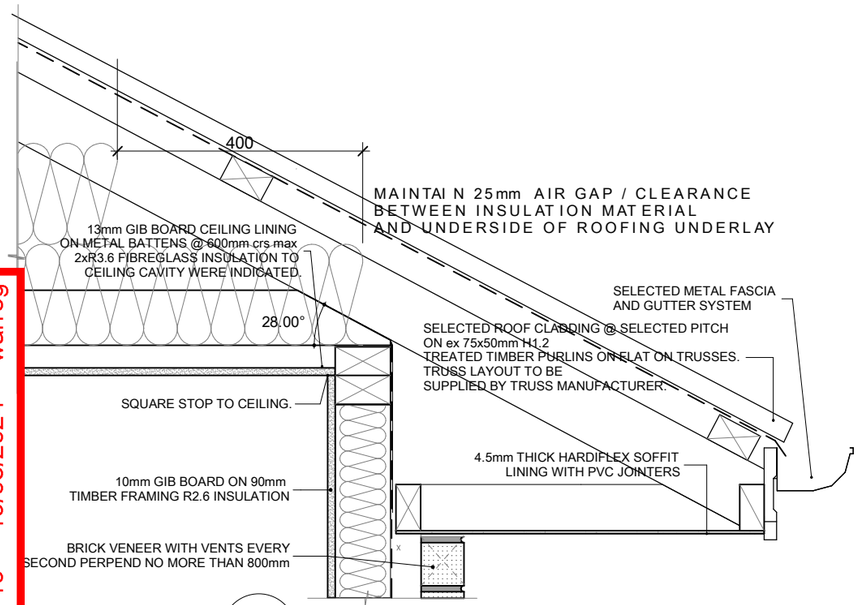
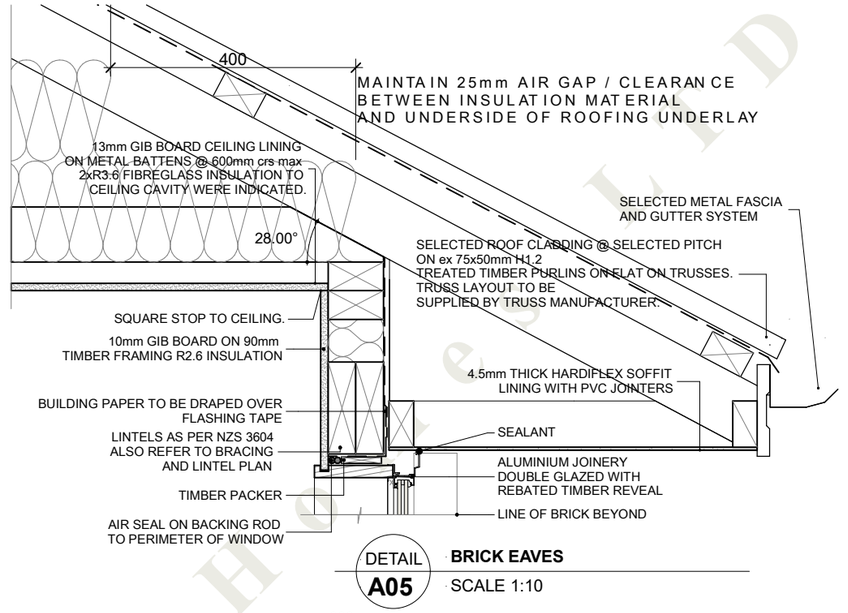
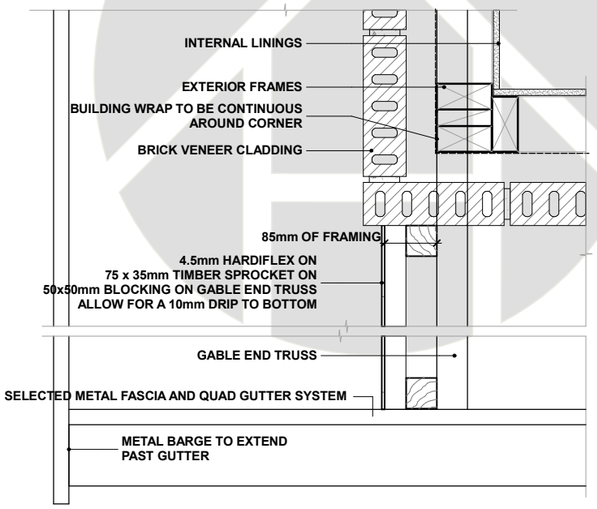


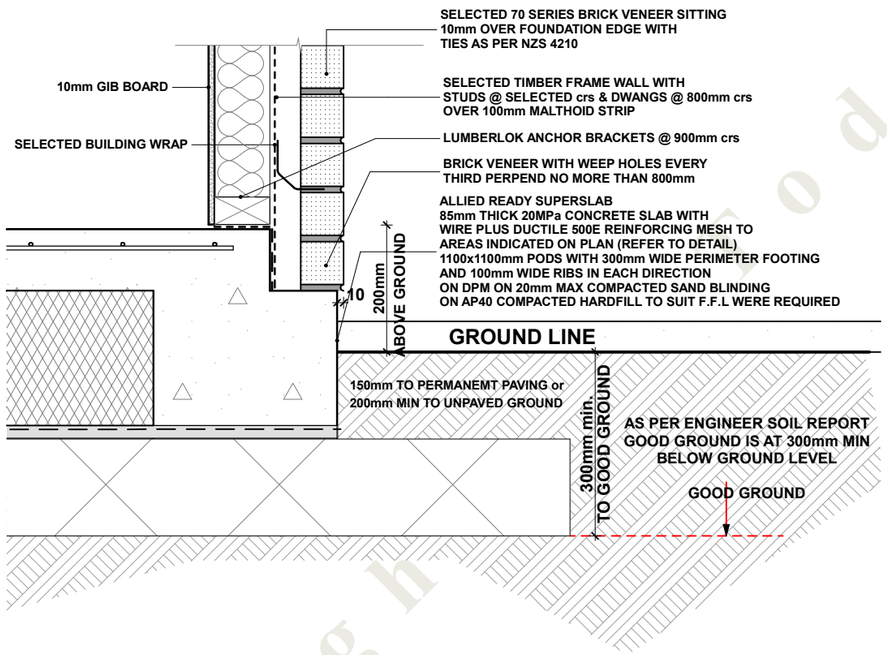
DETAIL **A05** BRICK EAVES
SCALE 1:10



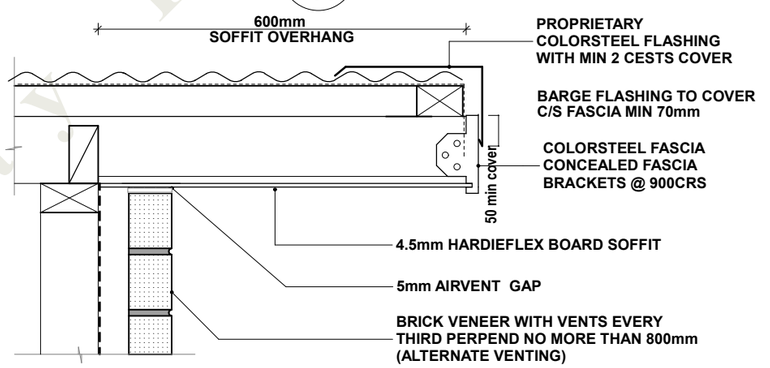
DETAIL **A05** BRICK EAVES
SCALE 1:10



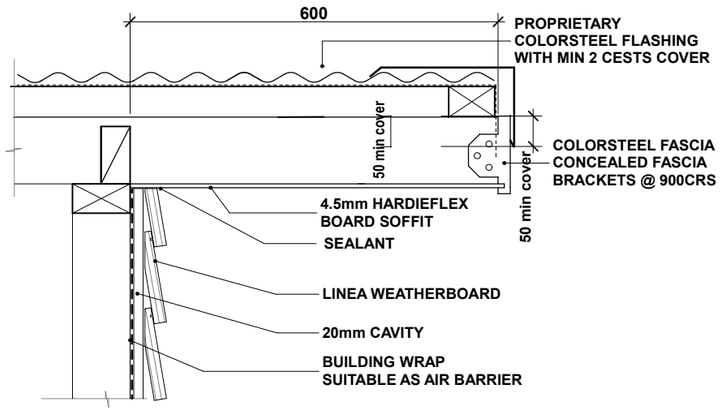
DETAIL **S06** SOFFIT STOP END
SCALE 1:10



DETAIL **A03** FOUNDATION DETAIL
SCALE 1:10



BARGE /RAKING SOFFIT/ BRICK



BARGE /RAKING SOFFIT/ LINEA WEATHERBOARD

DETAIL **S05** BARGE DETAIL
SCALE 1:10

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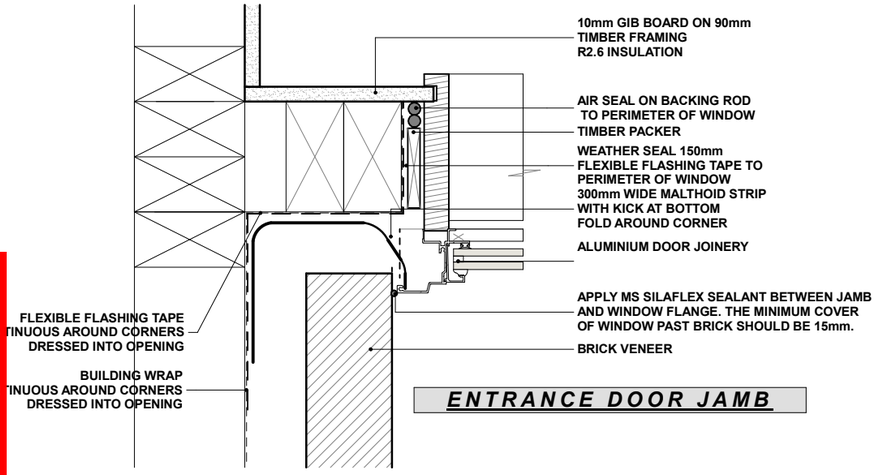


ENTRANCE DOOR JAMB

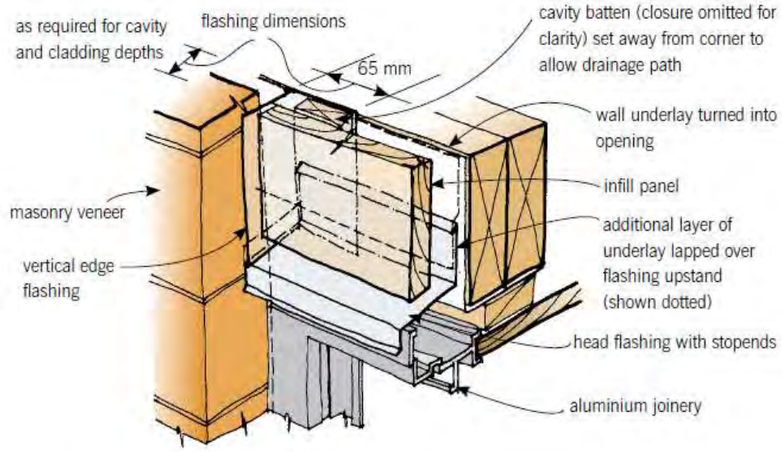
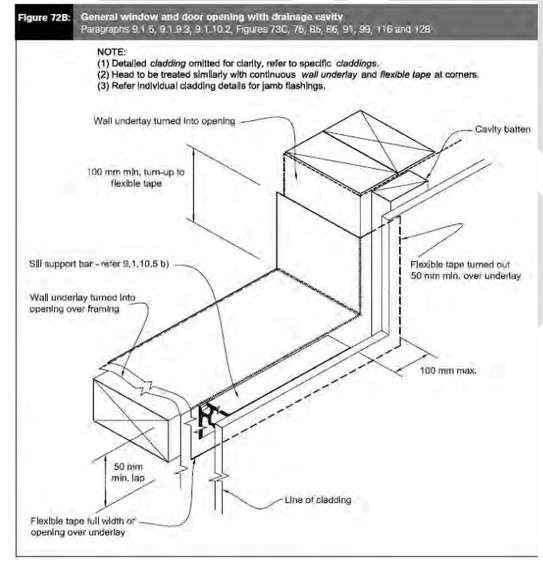
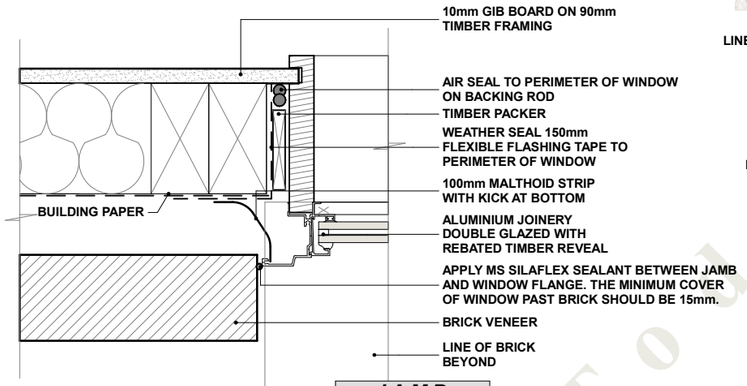


Figure 2: Brick veneer with infill panel above opening.





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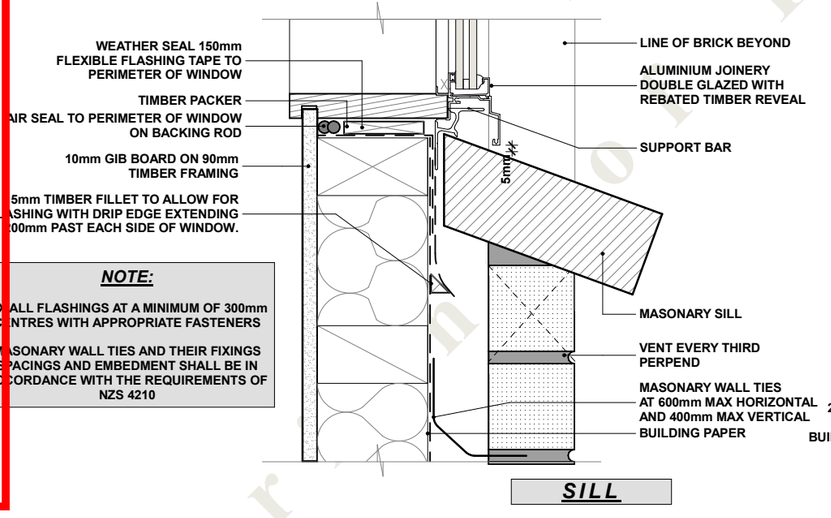


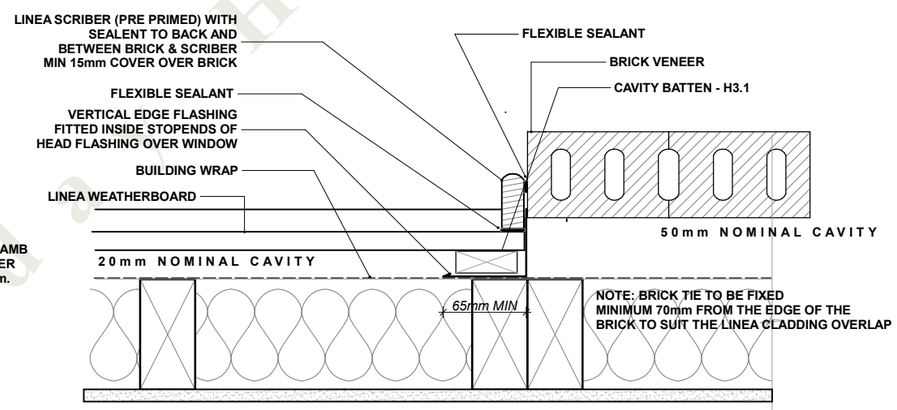
NOTE:

FIX ALL FLASHINGS AT A MINIMUM OF 300mm CENTRES WITH APPROPRIATE FASTENERS

MASONARY WALL TIES AND THEIR FIXINGS SPACINGS AND EMBEDMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF NZS 4210

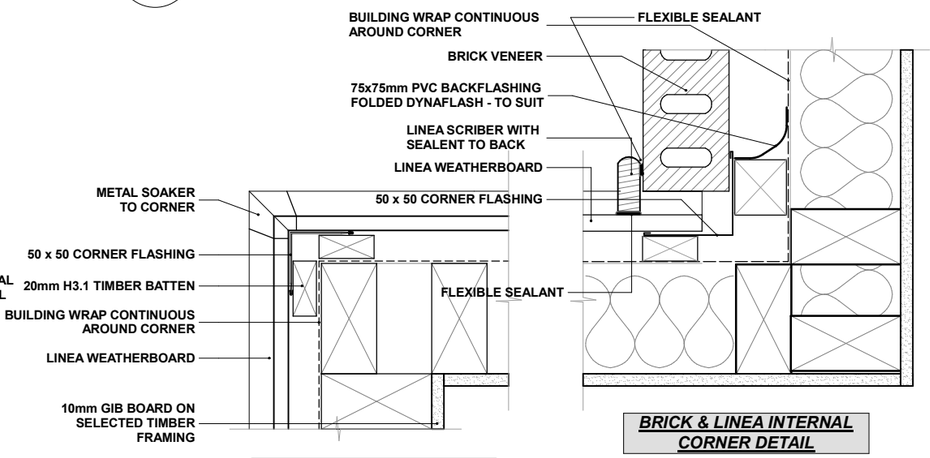
SILL

DETAIL **A02** BRICK WINDOWS
SCALE 1:5



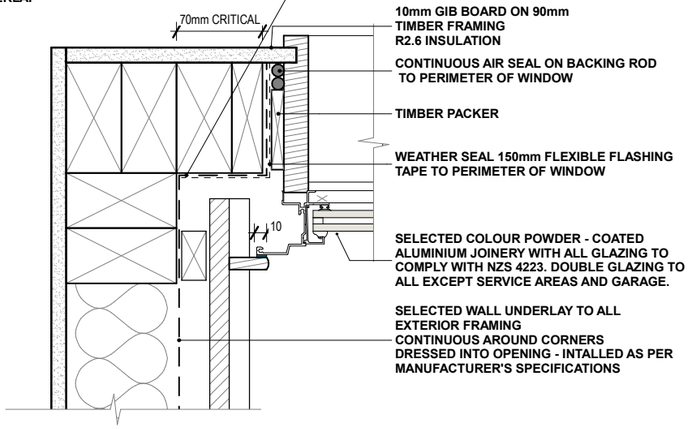
BRICK ABUTTING LINEA ABOVE WINDOW DETAIL

DETAIL **G03** INT/EXT CORNERS
SCALE 1:5



LINEA EXTERNAL CORNER DETAIL

BRICK & LINEA INTERNAL CORNER DETAIL



ENTRANCE DOOR JAMB

DETAIL **B02** LINEA WINDOWS
SCALE 1:5

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DETAIL **G03** INT/EXT CORNERS
SCALE 1:5

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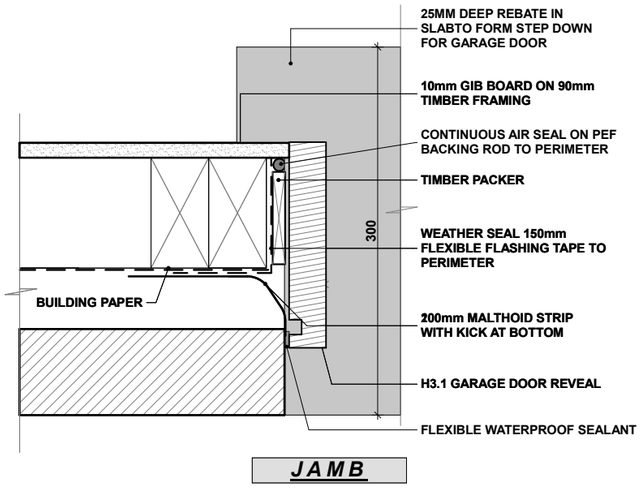

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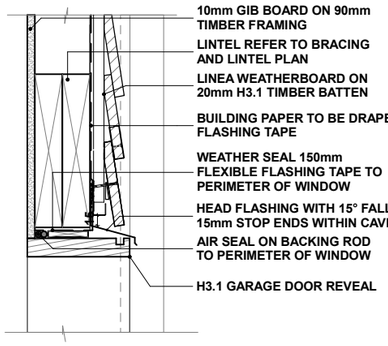
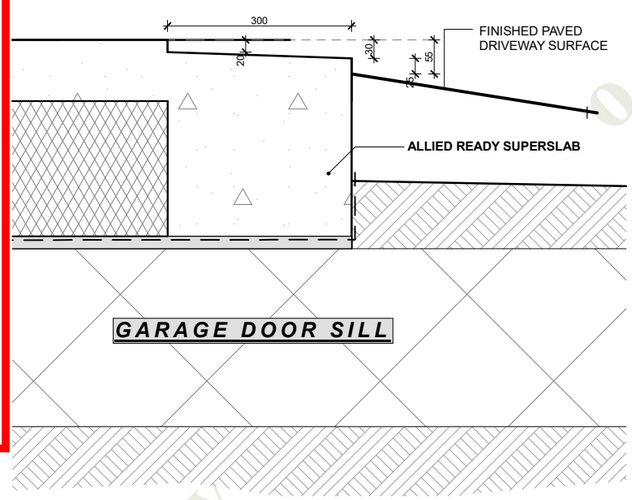
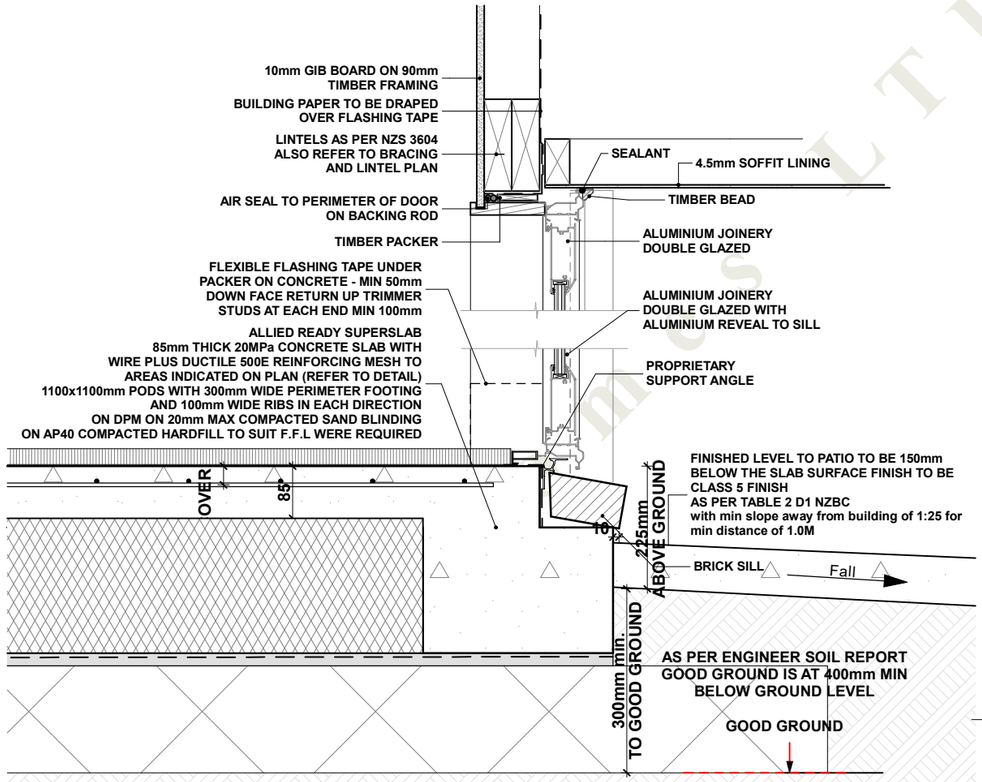


HEAD

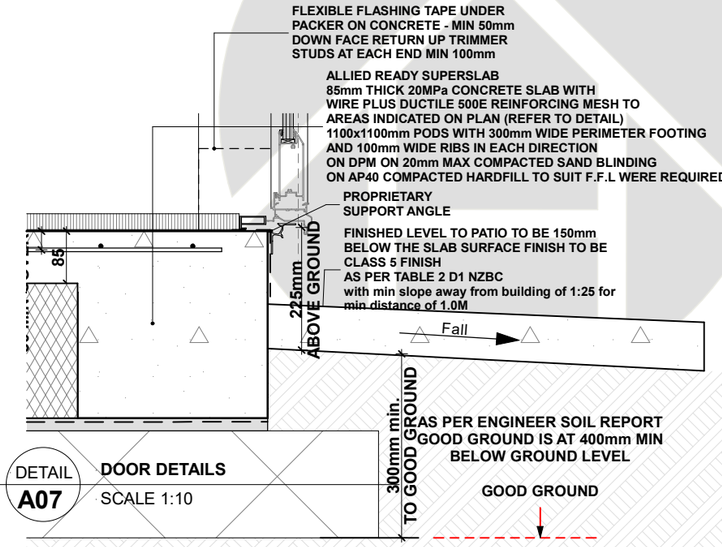


GARAGE DOOR SILL

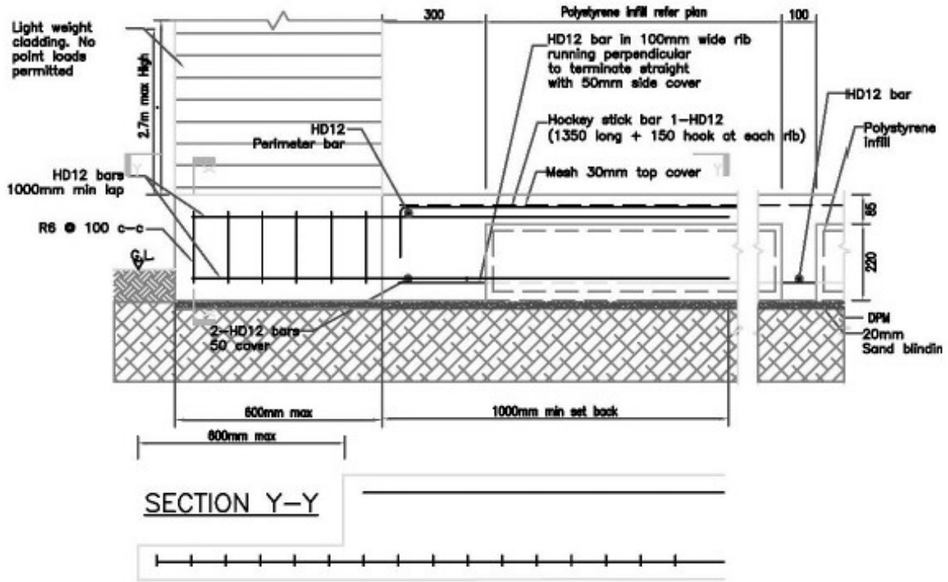
DETAIL **G07** — **GARAGE DOOR DETAIL** — SCALE 1:10



DETAIL **A07** — **DOOR DETAILS** — SCALE 1:10



DETAIL **A07** — **DOOR DETAILS** — SCALE 1:10



SECTION Y–Y

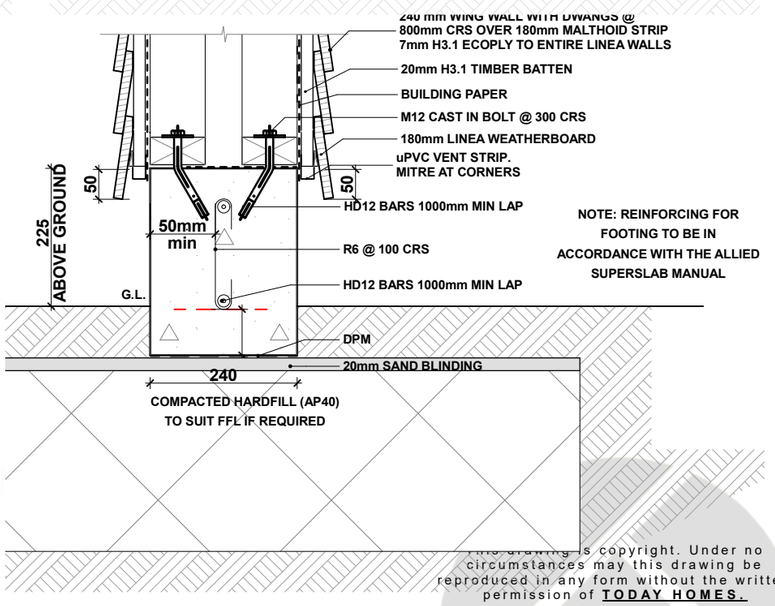


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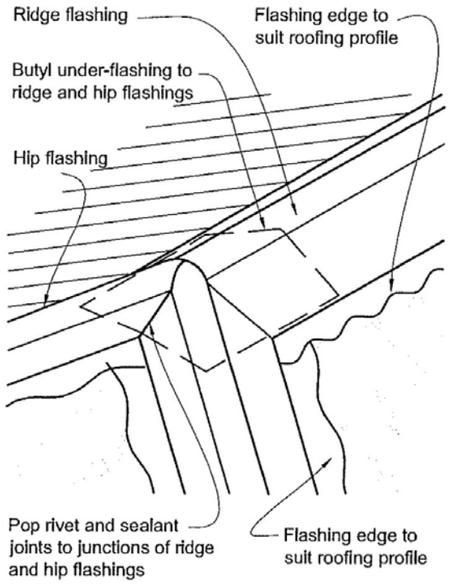
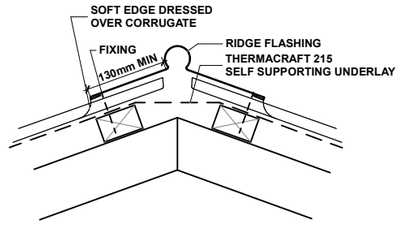
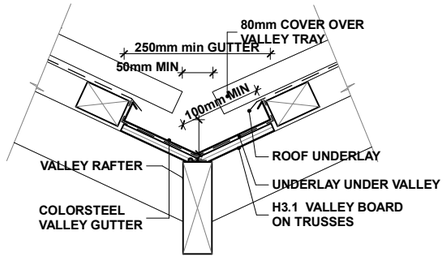
Figure 43: Ridge to hip flashings
Paragraphs 8.4.11 and 8.4.12

NOTE: *Flashing* cover varies according to *wind* zone - refer Table 7.
For other ridge to hip flashings refer to New Zealand Metal Roofing and Wall Cladding Code of Practice.



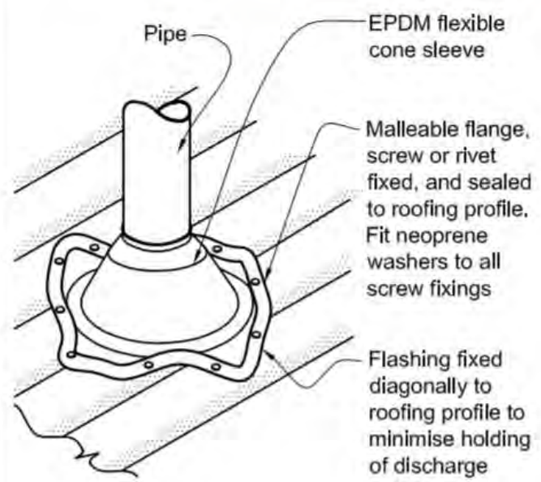




COLORSTEEL VALLEY GUTTER DETAIL SCALE 1:10

DETAIL **S04** — **TYPICAL VALLEY GUTTER** — SCALE 1:10

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



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

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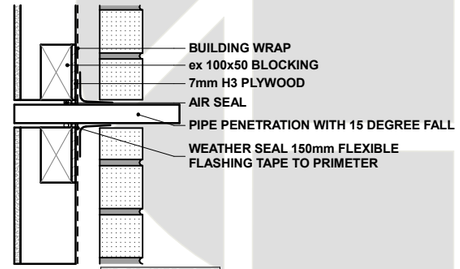
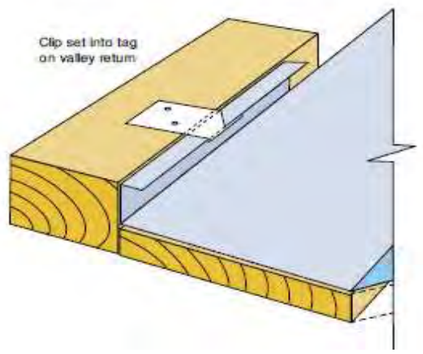
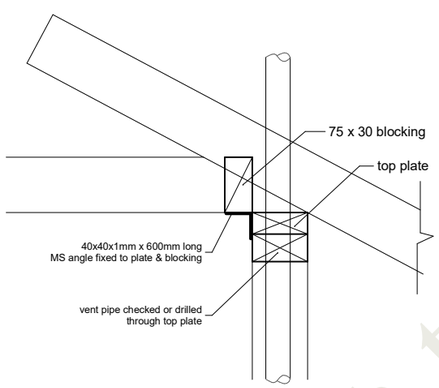


DETAIL **D03** — **PIPE PENETRATION** — SCALE 1:10

5.2.4.1A Valley Clip System





TOP PLATE STRENGTHENING

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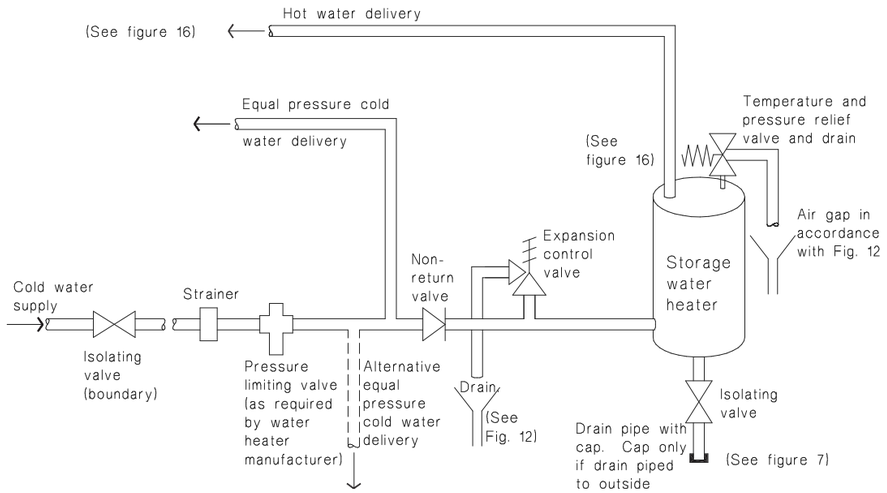
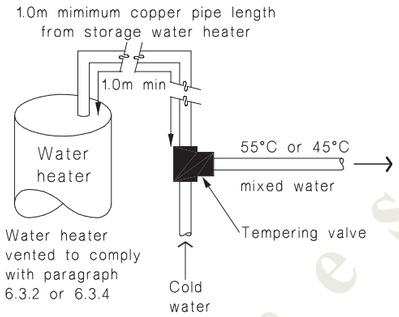
Figure 8: Mains Pressure Storage Water Heater System (unvented)
Paragraphs 6.1.2 and 6.2.1 b)





(b) Where all hot water is tempered

Note:

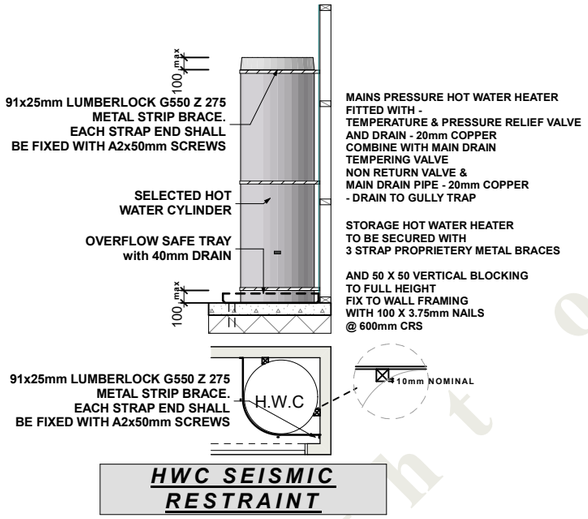
1. For optimum system efficiency the tempering valve, for other than a mains pressure system, may be located as low as practicable to achieve the manufacturer's recommended head, at the tempering valve.

2. 1.0m minimum copper pipe length from storage water heater.

b) Tempering valves shall comply with NZS 4617 or AS 1357.2.

6.14.3 **Legionella bacteria**

Irrespective of whether a mixing device is installed, the storage water heater control thermostat shall be set at a temperature of not less than 60°C to prevent the growth of Legionella bacteria.



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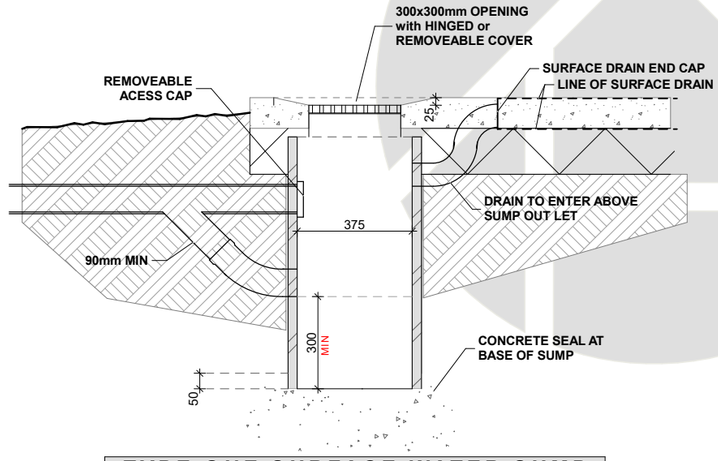

TYPE ONE SURFACE WATER SUMP TO SURFACE DRAIN IN DRIVEWAY

DETAIL **D04** — **SUMP DETAIL**
SCALE 1:20

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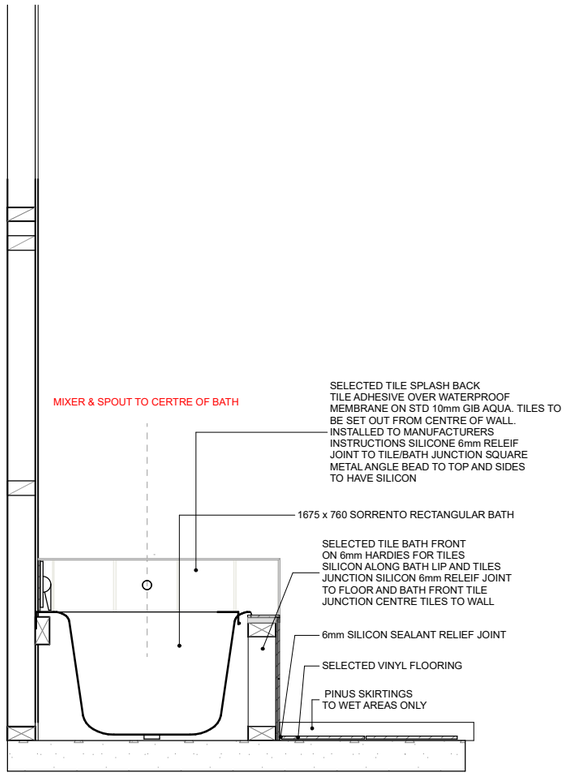

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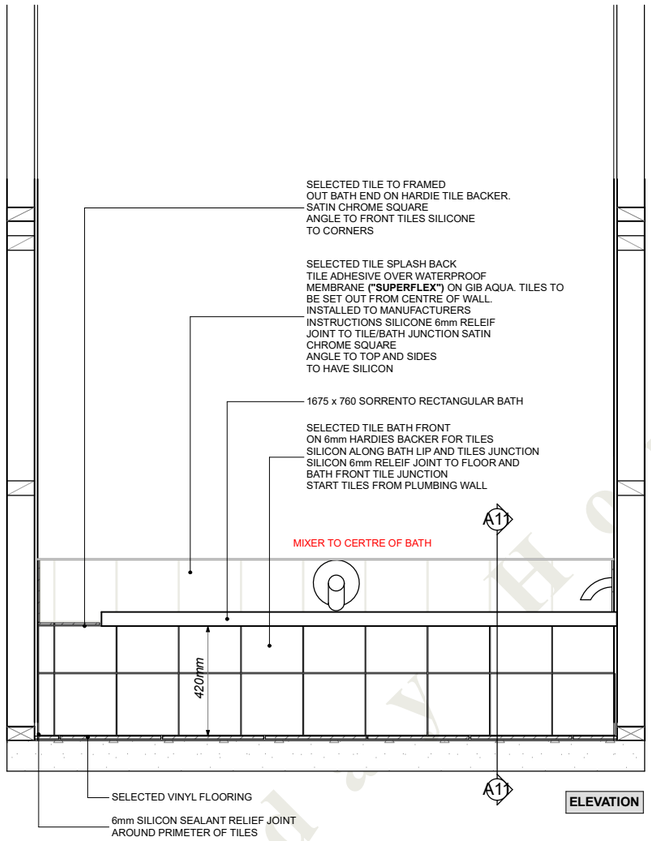
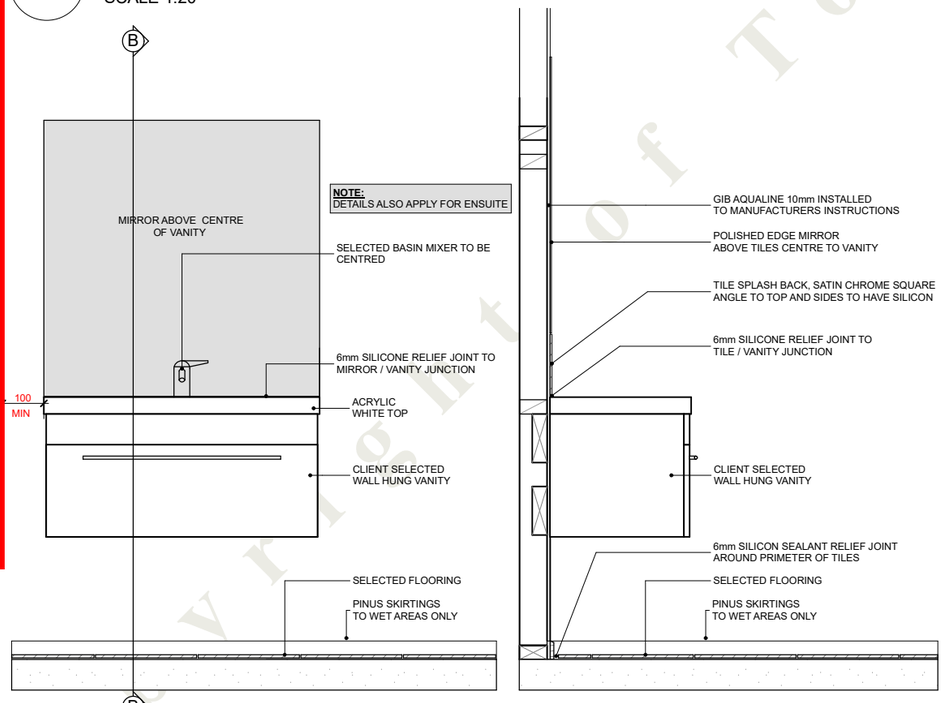
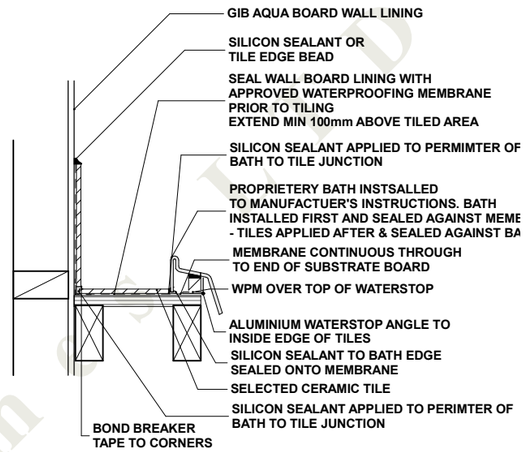


ELEVATION

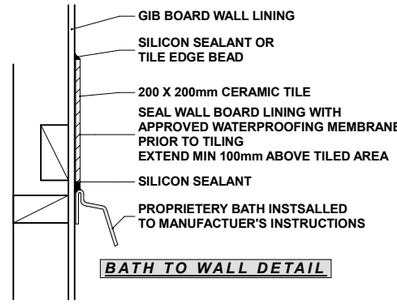
DETAIL **BATHROOM DETAILS**

SCALE 1:20

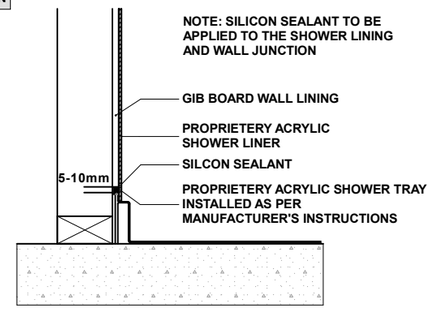




BATH TO TILE SILL DETAIL



BATH TO WALL DETAIL



SHOWER TO WALL DETAIL

FINISHING SCHEDULE TO WET AREAS TILING TO FLOORS

Bathroom: Vinyl Plank flooring on float finish concrete, junction of flooring to skirting to be sealed using Mapeisil Flexible Silicon with mould inhibitors.

Ensuite: Vinyl Plank flooring on float finish concrete, junction of flooring to skirting to be sealed using Mapeisil Flexible Silicon with mould inhibitors.

Laundry: Vinyl Plank flooring on float finish concrete, junction of flooring to tiled skirting to be sealed using Mapeisil Flexible Silicon with mould inhibitors.

Toilet: Vinyl Plank flooring on float finish concrete, junction of flooring to skirting to be sealed using Mapeisil Flexible Silicon with mould inhibitors.

Kitchen-& Entry: Vinyl Plank flooring on float finish concrete, junction of flooring to skirting to be sealed using Mapeisil Flexible Silicon with mould inhibitors.

VINYL PLANK E3 ALTERNATIVE SOLUTION

PAINTING TO WET AREAS

Bathroom, Ensuite, Laundry & WC.

Walls: 10mm Gib fixed as per manufacturers instructions , stopped to level 4 paint finish. 1 coat of water based sealer and 2 coats of water based Enamel paint to all surfaces in the wet areas.

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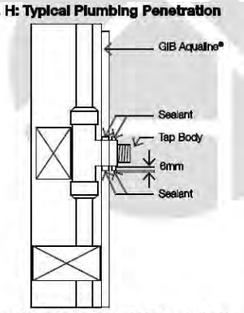
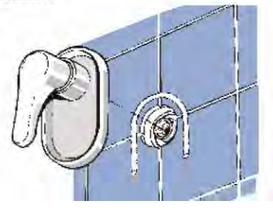
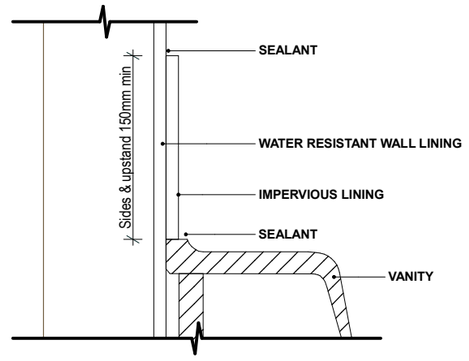
FIG. H: Typical Plumbing Penetration



Penetrations in wet areas should be sealed with silicon sealant to prevent moisture access to the framing.
Apply a bead of sealant behind the cover plate on shower mixer to divert any water from the penetration.





VANITY TO WALL JUNCTION

DETAIL **VANITY TO WALL JUNCTION**

SCALE 1:5

TODAY HOMES LTD
LOT 27 KERSEY PARK DARFIELD

CEPT AND
CONFIRM THAT THESE ARE THE
FULL AND FINAL DRAWINGS
Signed: Date:

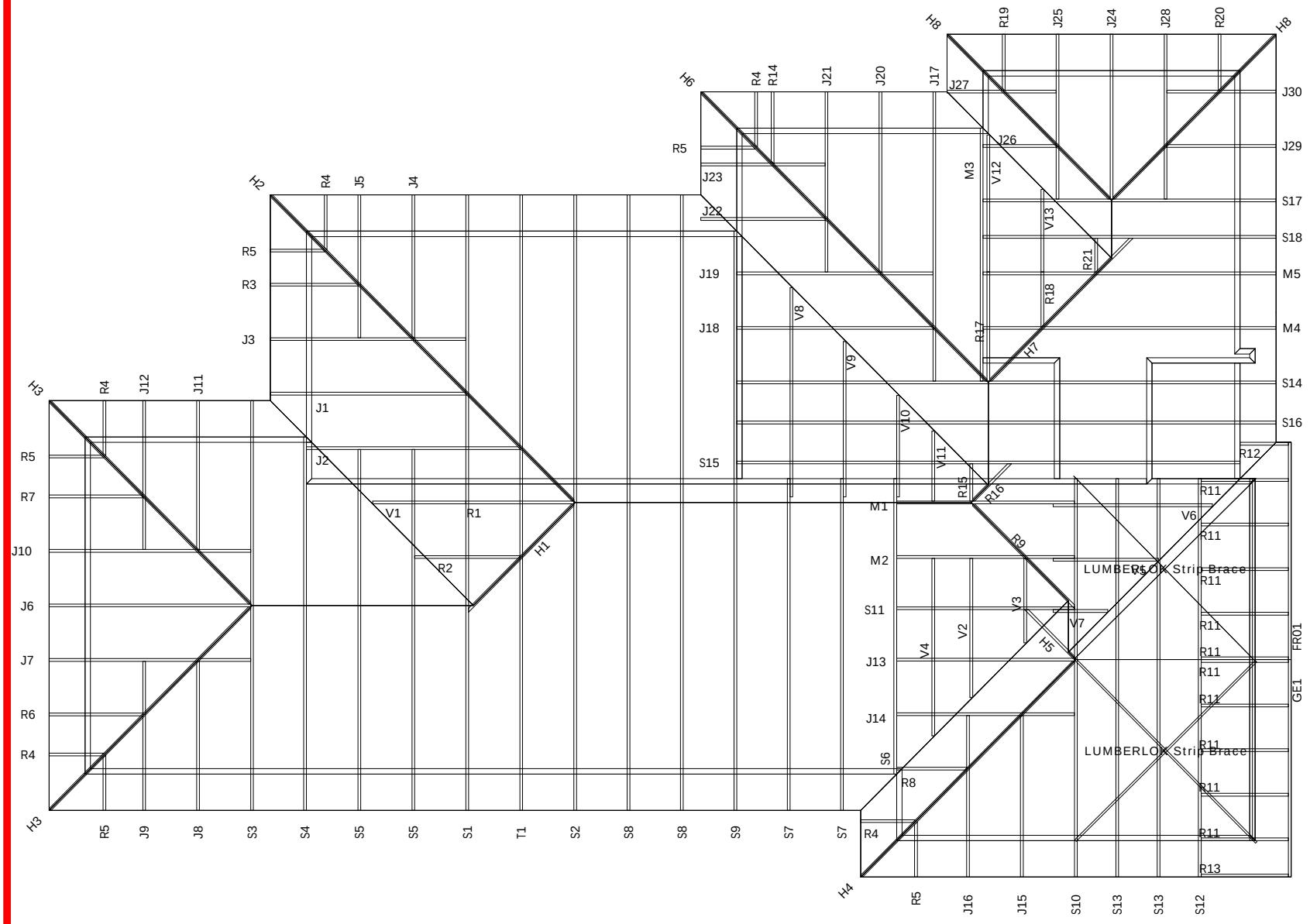
LICENSED BUILDING PRACTITIONER www.dbh.govt.nz BUILDING CONFIDENCE

JOB NO:**1430823**
ORIGINAL SHEET SIZE **A3**
DRAWN: **SHAUN HALPINE**
PRINTED: **Tuesday, 12 March 2024**

WET AREA DETAILS

A-15

REVISION



VIP Frames & Trusses
AUCKLAND | PALMY | CHRISTCHURCH

65 Wickham St.
PO Box 19-765,
Christchurch

91 Adams Drive,
Pukekohe,
Auckland

64 Malden Street
Palmerston North

0800 PRENAIL
(0800 7736245)

JOB No 201433

Client: Today Homes
Job Name: New House
Address: Lot 27 Kersey Park
Darfield

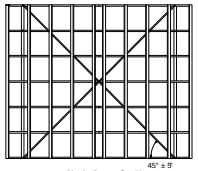
Pitch:	28.000
Roof Material:	Galv Iron 0.55mm
Soffit Overhang:	600mm
Wind Area:	High
Snow Load:	0.627

Trusses And Rafters At 900 Centres
Unless Stated Otherwise

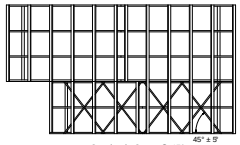
DRAWN BY Josh Thompson

DATE 20 Dec,2023 PAGE 1 of

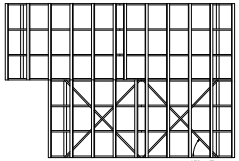
Roof Bracing Details



Single Cross @ 45°



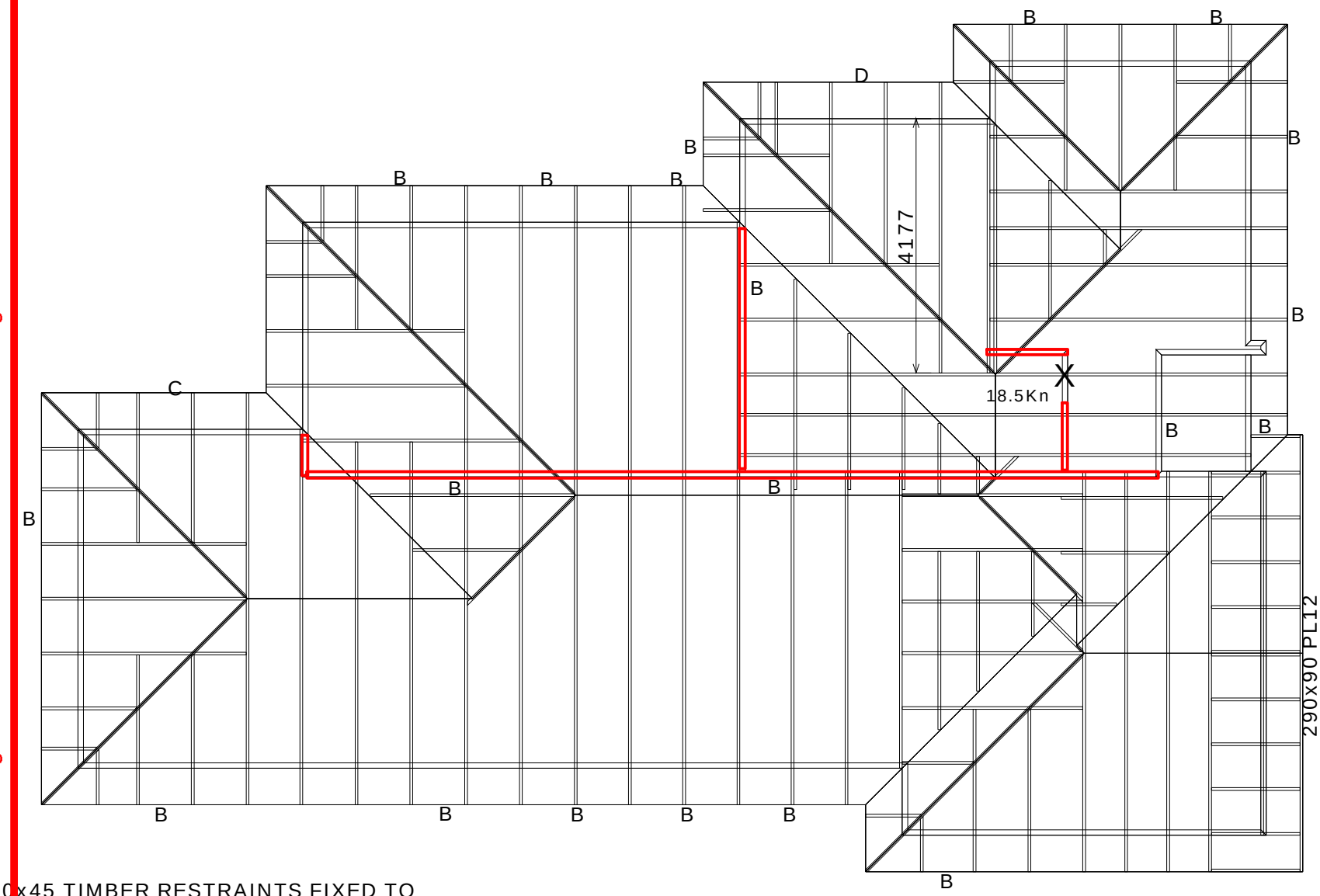
Quadruple Cross @ 45°



Double Cross @ 45°
(as diagram above)

NOTES:

Refer to:
Lumberlok roof bracing brouchure
07/2006



90x45 TIMBER RESTRAINTS FIXED TO BOTTOM CHORD @1800CTRS MAX

X = 10.00 - 19.99 kN Download. Type FP1 Slab Thickening Reqd

All Other lintels / beams by architect / engineer

All internal wall shown on this layout are considered to be Load Bearing(loads not exceeding 10 kN)

VIP Frames & Trusses
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Trusses And Rafters At 900 Centres Unless Stated Otherwise

DRAWN BY Josh Thompson

DATE 20 Dec,2023 PAGE 1 of

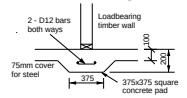
These lintels have been sized as per the GANGLAM and FLITCH BEAM selection manuals as provided by MiTek NZ Ltd.

HYSPAN lintels have been sized as per the HYSPAN selection charts.

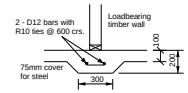
Unless otherwise stated all lintels are as per NZS3604 2011

LINTEL	SIZE	
A	2/90x45	MSG8
B	150x90	Hy90
C	200x90	Hy90
D	240x90	Hy90
E		
F		

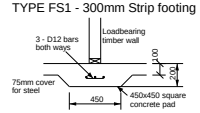
Slab Thickening Details



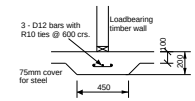
TYPE FP1 - 375x375mm Pad



TYPE FS1 - 300mm Strip footing



TYPE FP2 - 450x450mm Pad



TYPE FS2 - 450mm Strip footing