SITE INFORMATION

Site Address: 26 Essex Street, Arrowtown

Legal description:
LOT: Lot 37 DP 323992

Site area: 1871m^2

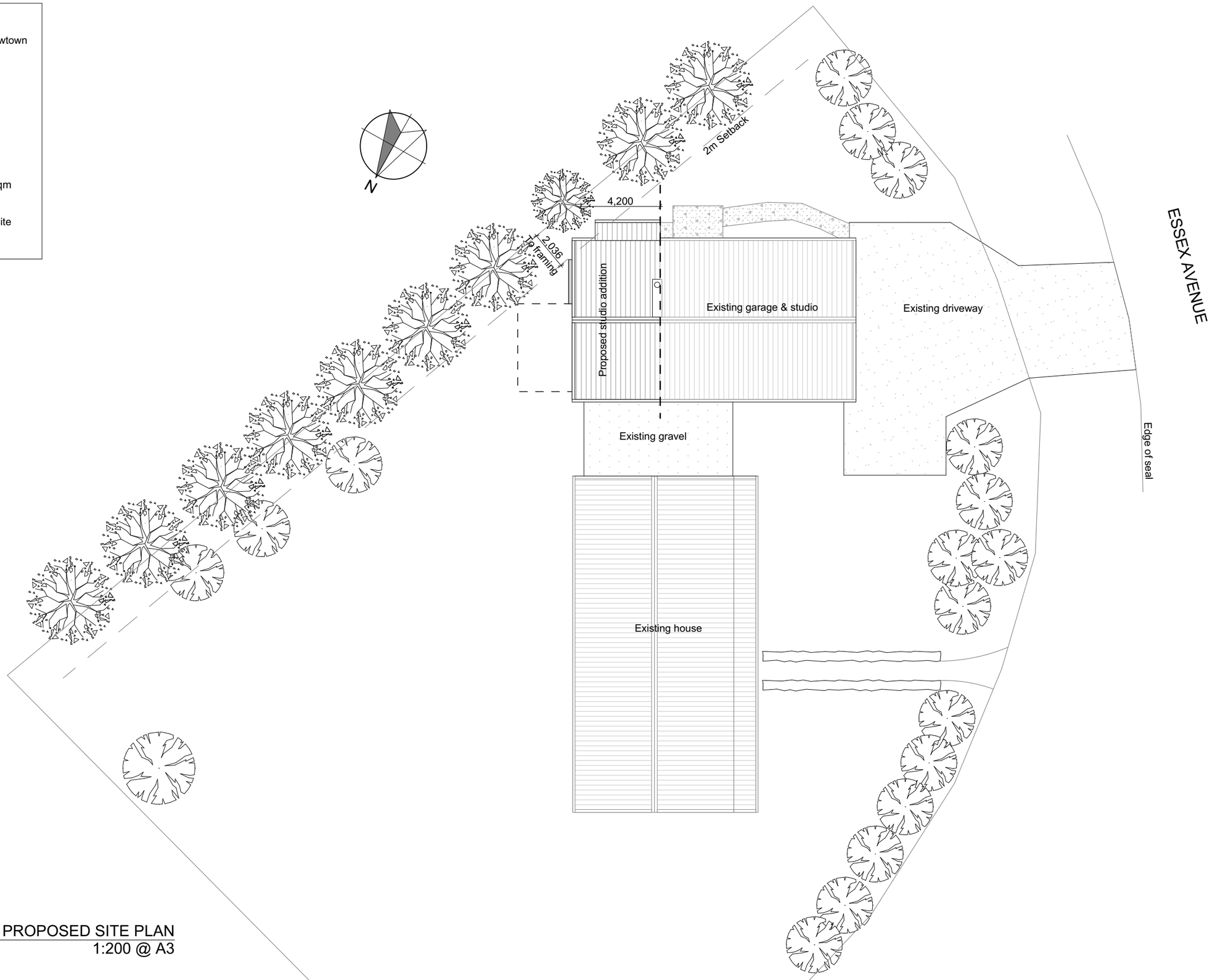
Maximum height 7m

Existing house & garage covarage: 265sqm

Proposed additional coverage: 33sqm

Total proposed building & additions coverage: 308sqm / 16.5% of total site

Floor level taken from existing plans



PROPOSED SITE PLAN
1:200 @ A3

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PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

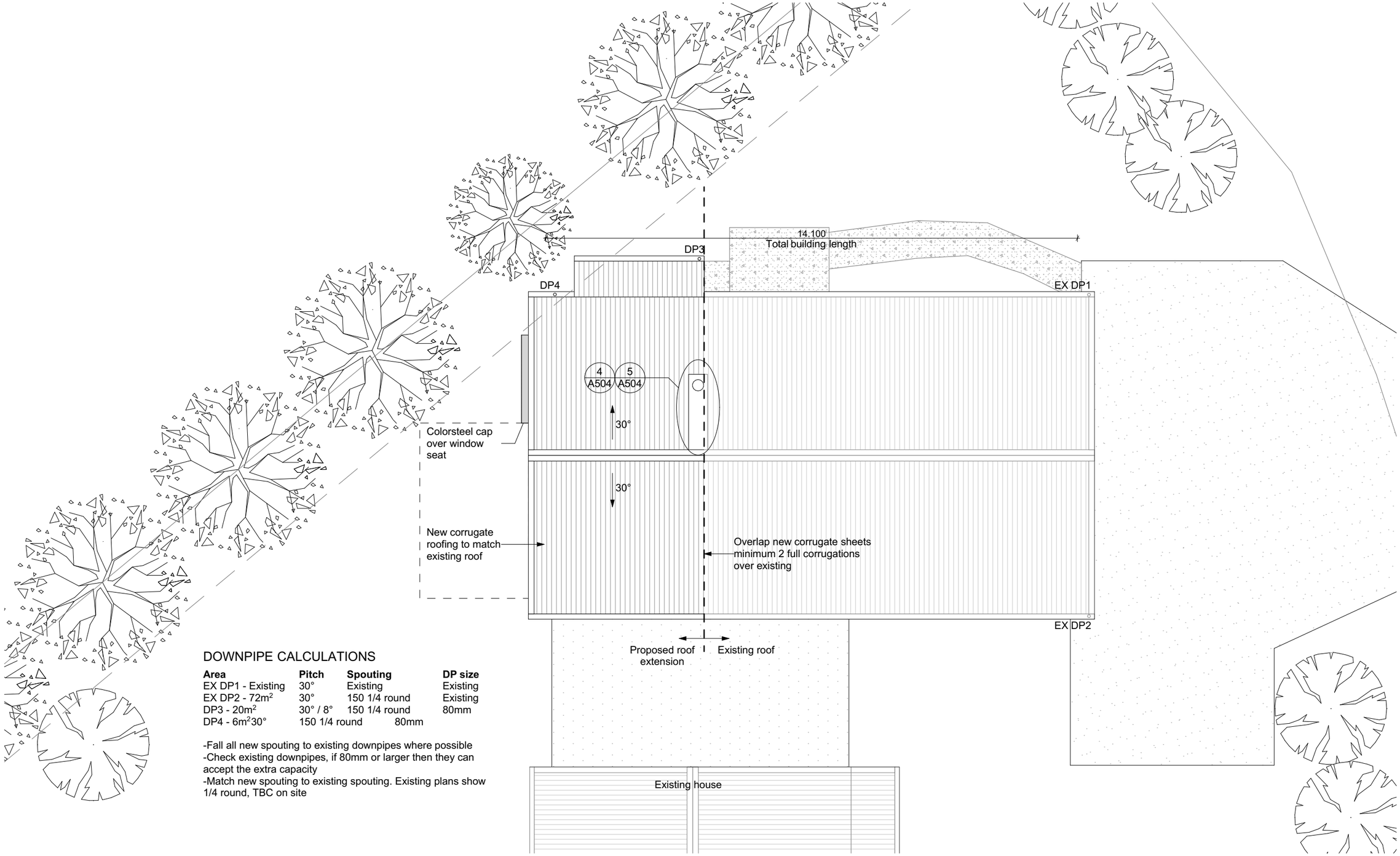
Detailed Design
Site Plan

DATE 24/07/2026

SCALE 1:200 @ A3

SHEET A101
REVISION 1

REF. 400.25



DOWNPIPE CALCULATIONS

Area	Pitch	Spouting	DP size
EX DP1 - Existing	30°	Existing	Existing
EX DP2 - 72m^2	30°	150 1/4 round	Existing
DP3 - 20m^2	30° / 8°	150 1/4 round	80mm
DP4 - 6m^{2}30°	150 1/4 round	80mm	

-Fall all new spouting to existing downpipes where possible
-Check existing downpipes, if 80mm or larger then they can accept the extra capacity
-Match new spouting to existing spouting. Existing plans show 1/4 round, TBC on site

PROPOSED ROOF PLAN
1:100 @ A3

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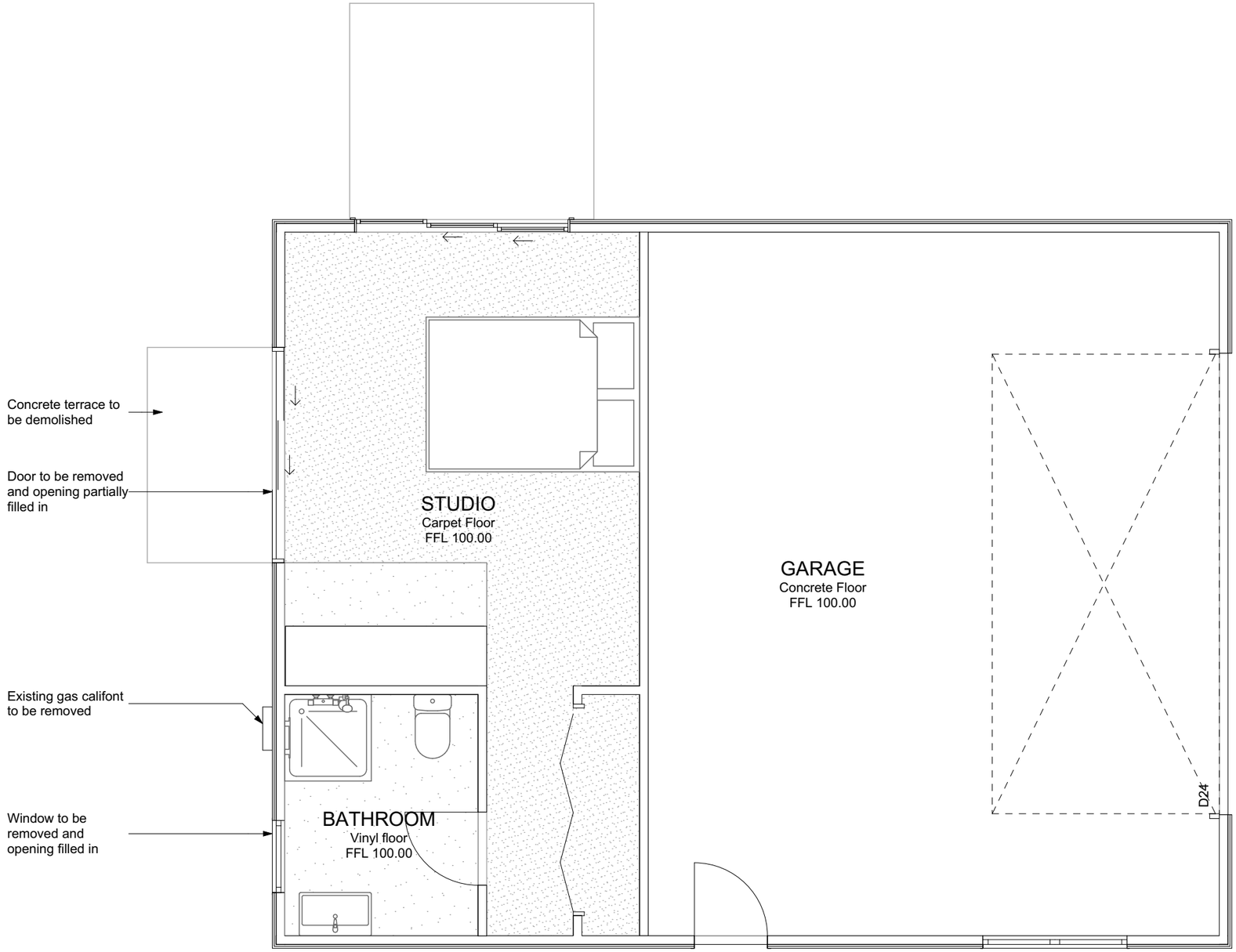
PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

Detailed Design
Roof Plan

DATE 24/07/2026
SCALE 1:100 @ A3

SHEET A102
REVISION 1
REF. 400.25



EXISTING FLOOR & DEMOLITION PLAN
1:50 @ A3

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PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

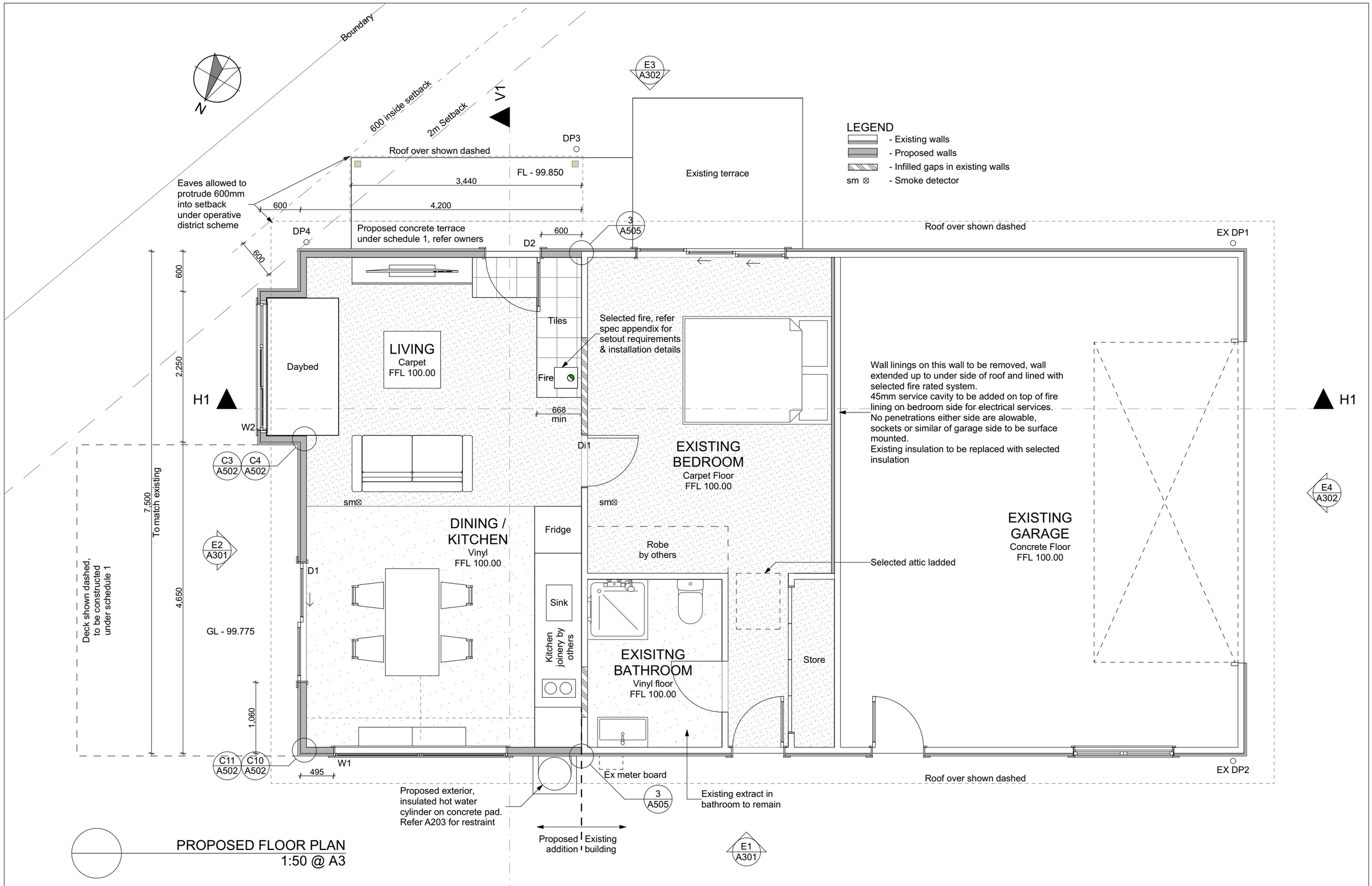
Detailed Design
Existing Floor Plan

DATE 24/07/2026

SCALE 1:50 @ A3

SHEET A201
REVISION 1

REF. 400.25



PROPOSED FLOOR PLAN
1:50 @ A3

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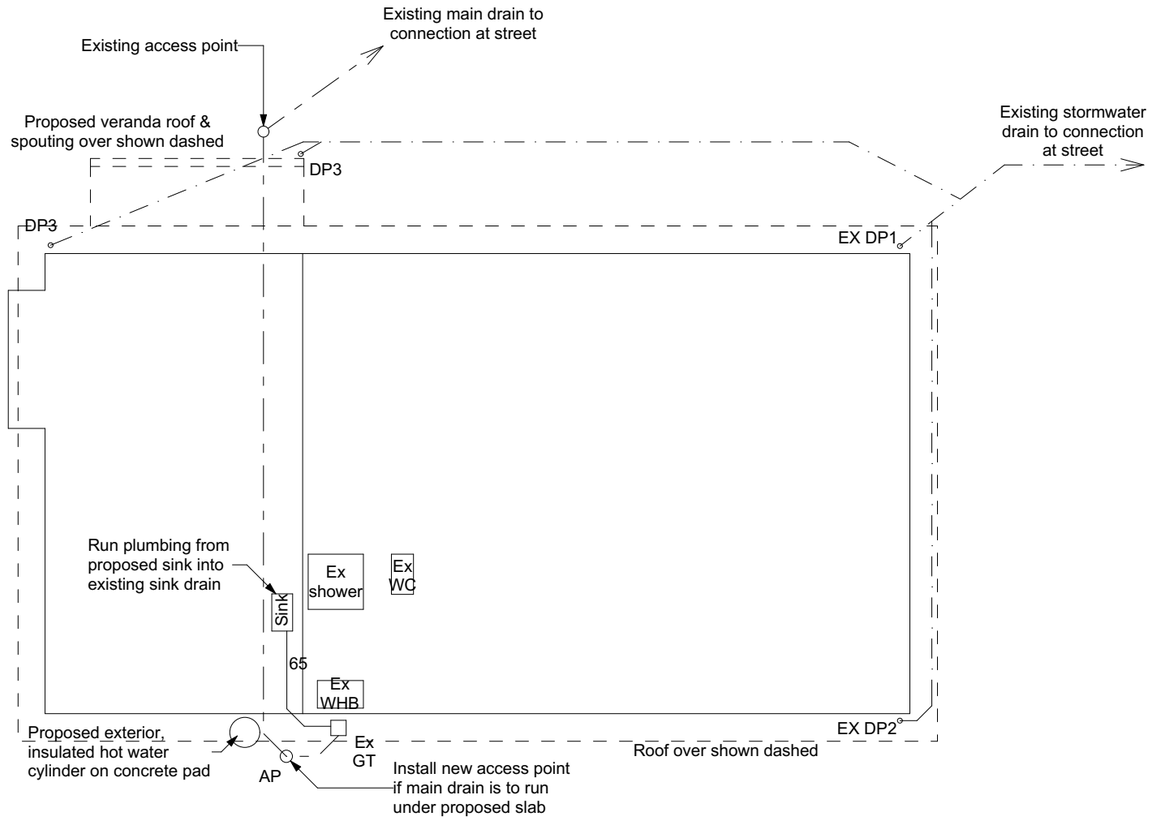
PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

Detailed Design
Proposed Floor Plan

DATE 24/07/2026
SCALE 1:50 @ A3

SHEET A202
REVISION 1
REF. 400.25



PROPOSED SLAB & PLUMBING PLAN
1:100 @ A3

LEGEND

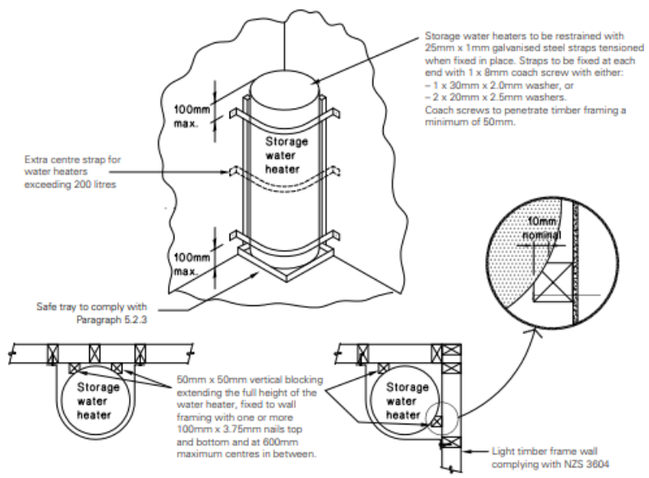
WHB	Wash hand basin
SHR	Shower
S	Sink
WC	Toilet pan
HWC	Hot water cylinder
GT	Gully trap
DP	Down Pipe
AP	Access point
———	Branch drain 65mm Ø uPVC
– – —— – –	Main vented drain 100mm Ø uPVC
—— · ——	Storm water drain 100mm Ø uPVC

Minimum grades for drains
65mm Ø - 1:40
80mm Ø - 1:60
100mm Ø - 1:60

Stormwater
100mm Ø - 1:120

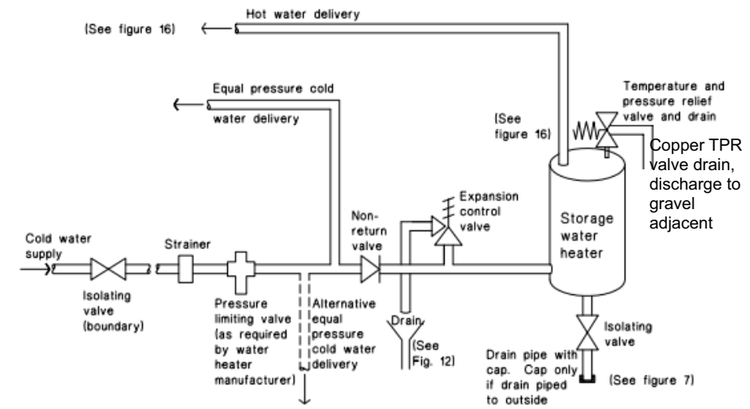
NOTES:
-All plumbing & drainage to be carried out in accordance with the New Zealand Building Code clauses G1, G2, G9, G10 & G12, G13
-Fresh water from town supply

Figure 14: Seismic Restraint of Storage Water Heaters 90 – 360 litres
Paragraph 6.11.4



Hot Water Cylinder Seismic Restraint Detail
G12 Figure 8

Figure 8(b): Mains Pressure Storage Water Heater System (unvented) - Expansion Control Valve
Paragraphs 6.1.2 and 6.2.1 c)



Hot Water Cylinder Valve Train
G12 Figure 8 (b)

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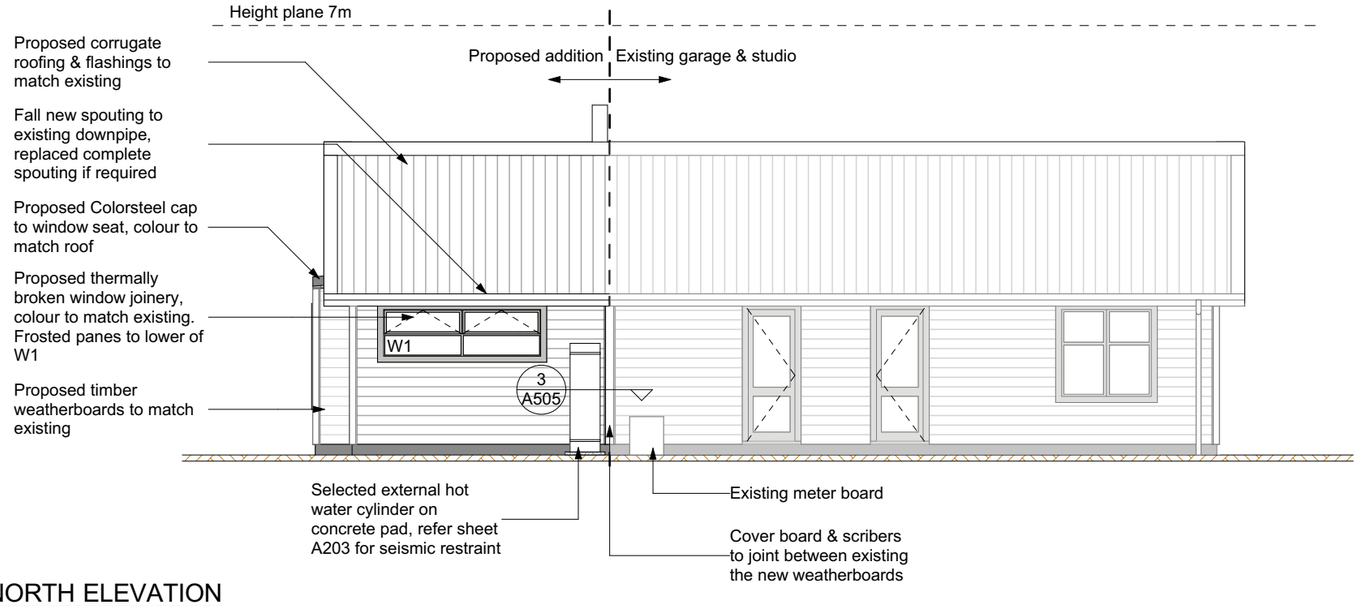
PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

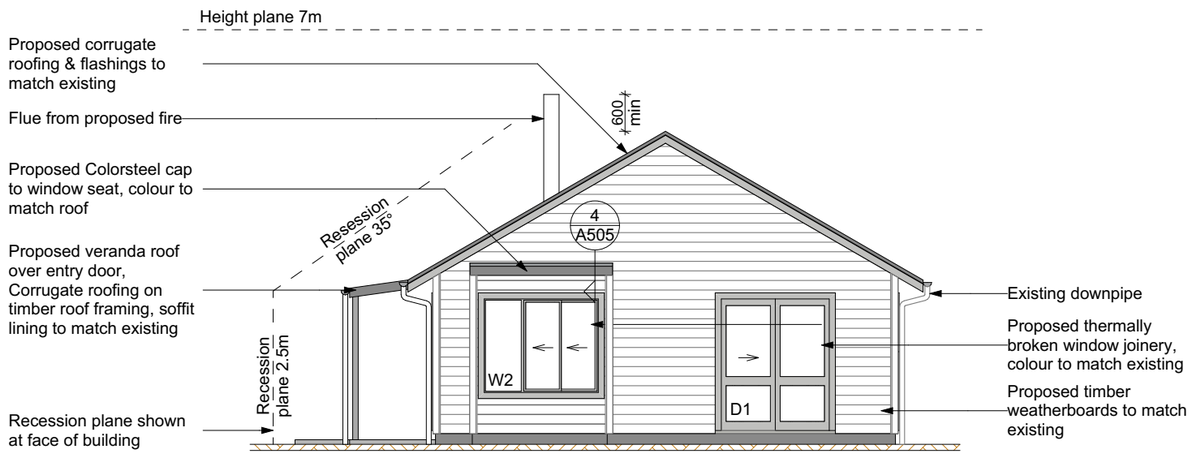
Detailed Design
Slab & Plumbing Plan

SHEET A203
REVISION 1

DATE 24/07/2026
SCALE 1:1.25, 1:100 @ A3
REF. 400.25



E1 / A202 — NORTH ELEVATION
1:100 @ A3



E2 / A202 — EAST ELEVATION
1:100 @ A3

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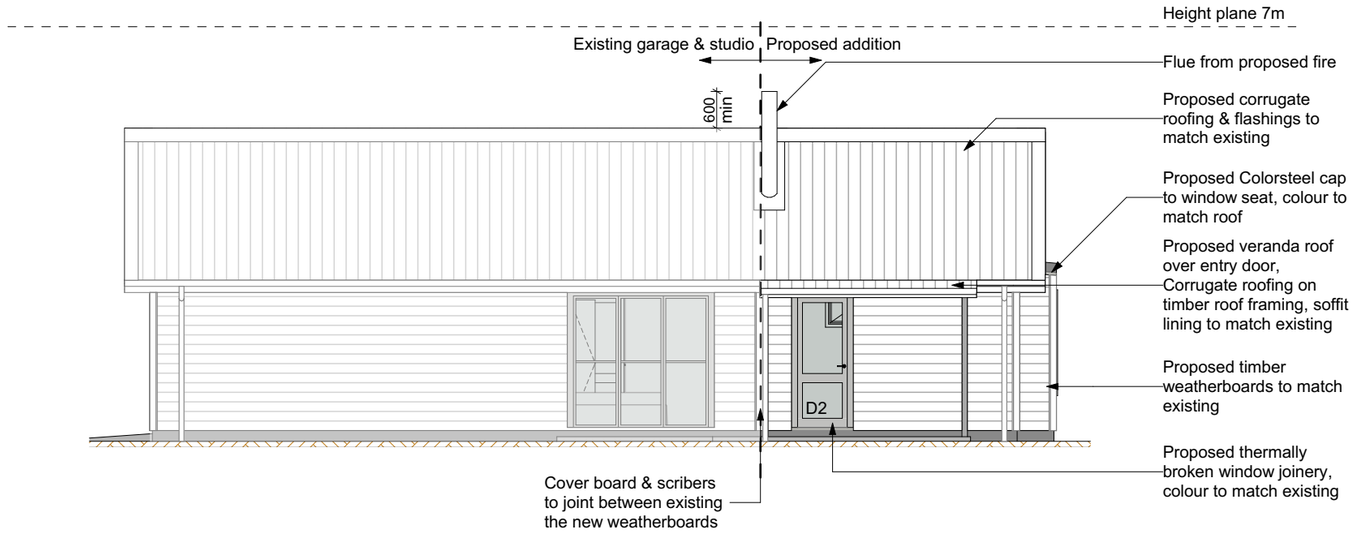
PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

Detailed Design
E-01 North & East Elevation

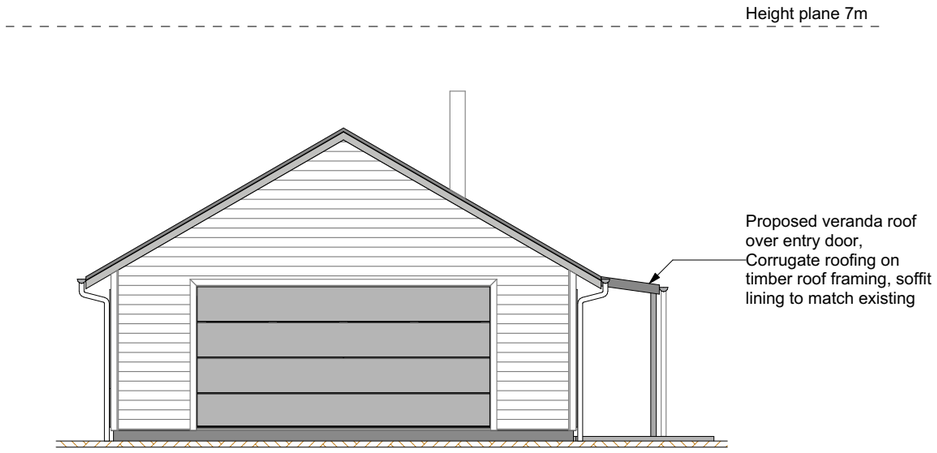
DATE 30/07/2026
SCALE 1:100 @ A3

SHEET A301
REVISION 1
REF. 400.25



E3
A202

SOUTH ELEVATION
1:100 @ A3



E4
A202

WEST ELEVATION
1:100 @ A3

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PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

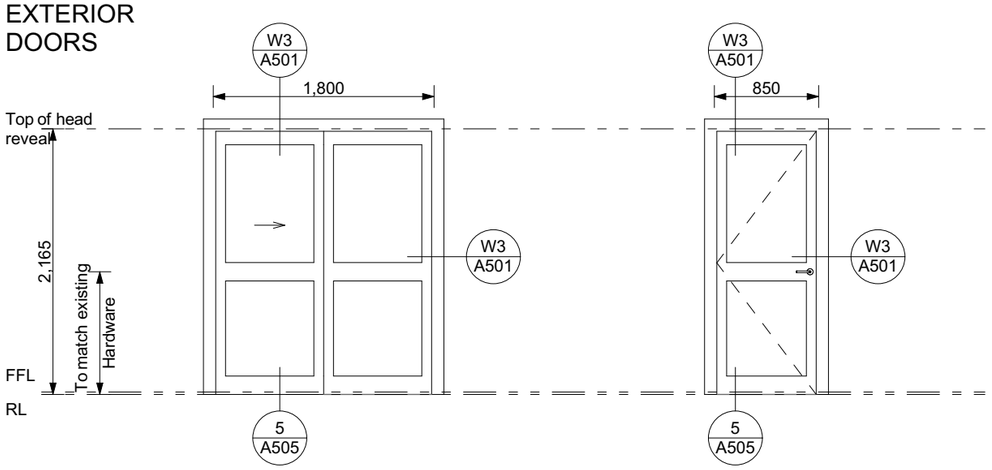
REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

Detailed Design
E-03 South & West Elevation

DATE 24/07/2026
SCALE 1:100 @ A3

SHEET A302
REVISION 1
REF. 400.25

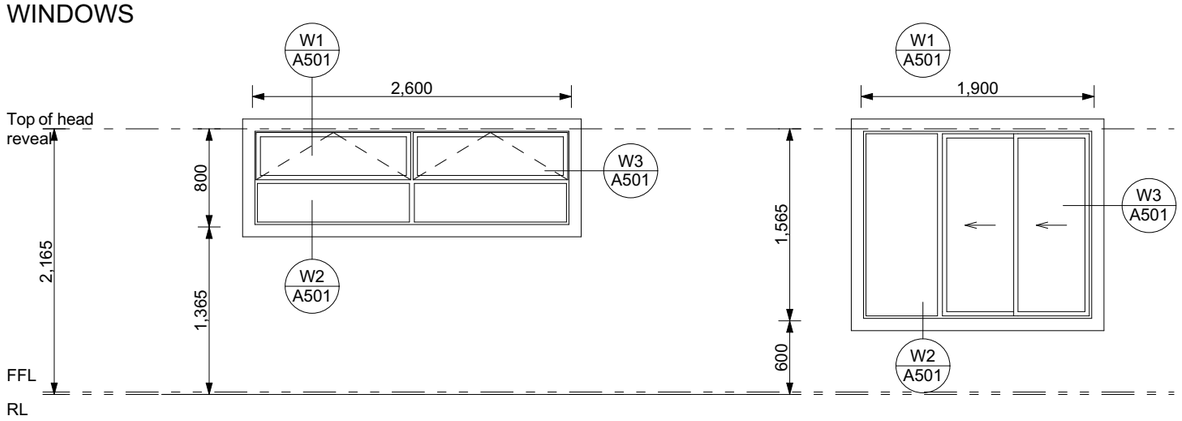
EXTERIOR DOORS



D1
-Sliding door
-Thermally broken aluminium joinery
-Selected double glazing with thermal spacer
-Safety glass
-Facing boards to match existing
-Finger jointed pine rebated reveals, primed for paint finish. To match existing confirm on site

D2
-Open in door
-Thermally broken aluminium joinery
-Selected double glazing with thermal spacer
-Safety glass
-Facing boards to match existing
-Finger jointed pine rebated reveals, primed for paint finish. To match existing confirm on site

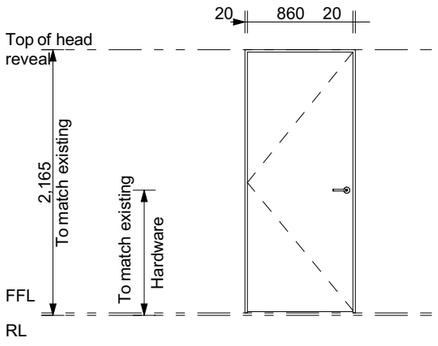
WINDOWS



W1
-Four pane window, top hung upper, fixes lower
-Frosted glass to lower panes
-Thermally broken aluminium joinery
-Selected double glazing with thermal spacer
-Facing boards to match existing
-Finger jointed pine rebated reveals, primed for paint finish. To match existing confirm on site

W2
-Tripple pane window with central sliding
-Thermally broken aluminium joinery
-Selected double glazing with thermal spacer
-Safety glass
-Facing boards to match existing
-Finger jointed pine rebated reveals, primed for paint finish. To match existing confirm on site

INTERIOR DOORS



Di1
- Poly core door, EPS core, R value 0.3 minimum
- Primed for paint finish
- Finger jointed pine rebated reveals, primed for paint finish, to match existing, confirm on site

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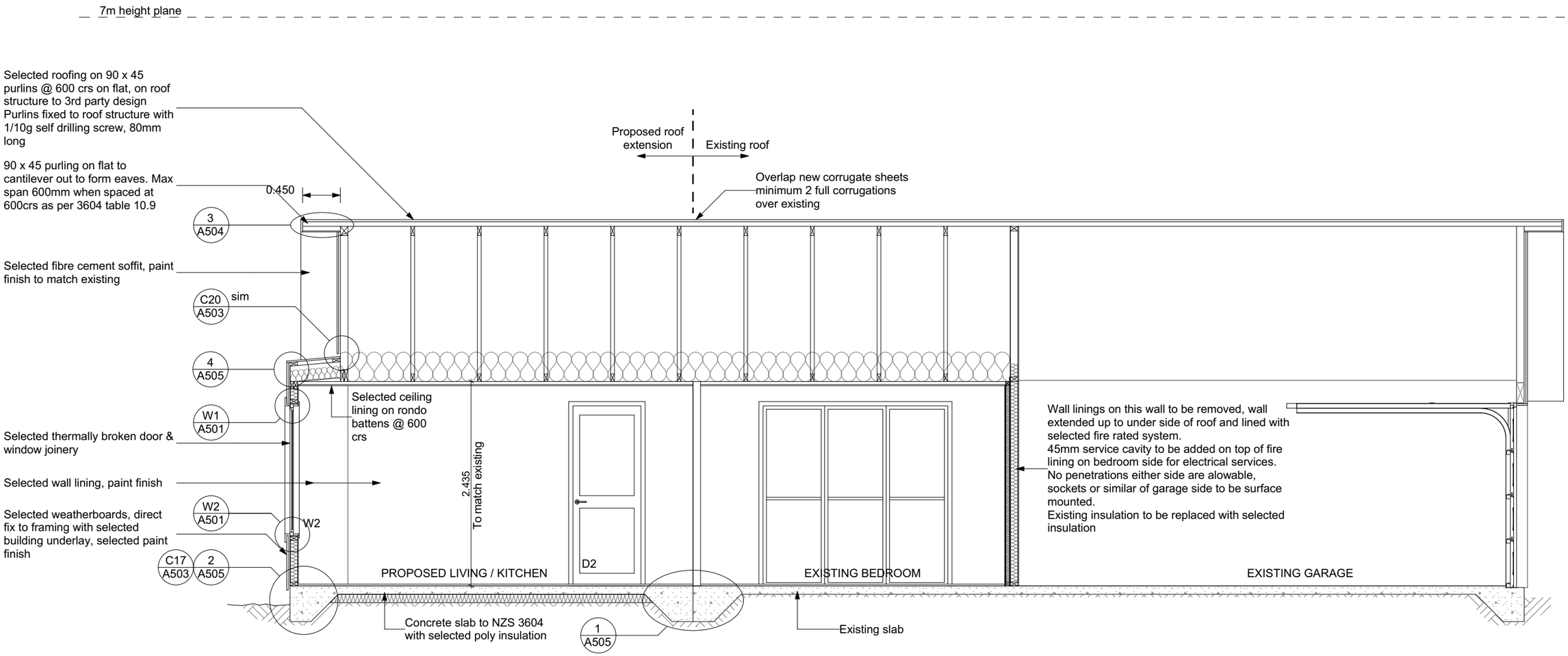
PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

Detailed Design
Door & Window Schedule

DATE 30/07/2026
SCALE 1:50 @ A3

SHEET A303
REVISION 1
REF. 400.25



H1 / A202 — SECTION H1
1:50 @ A3

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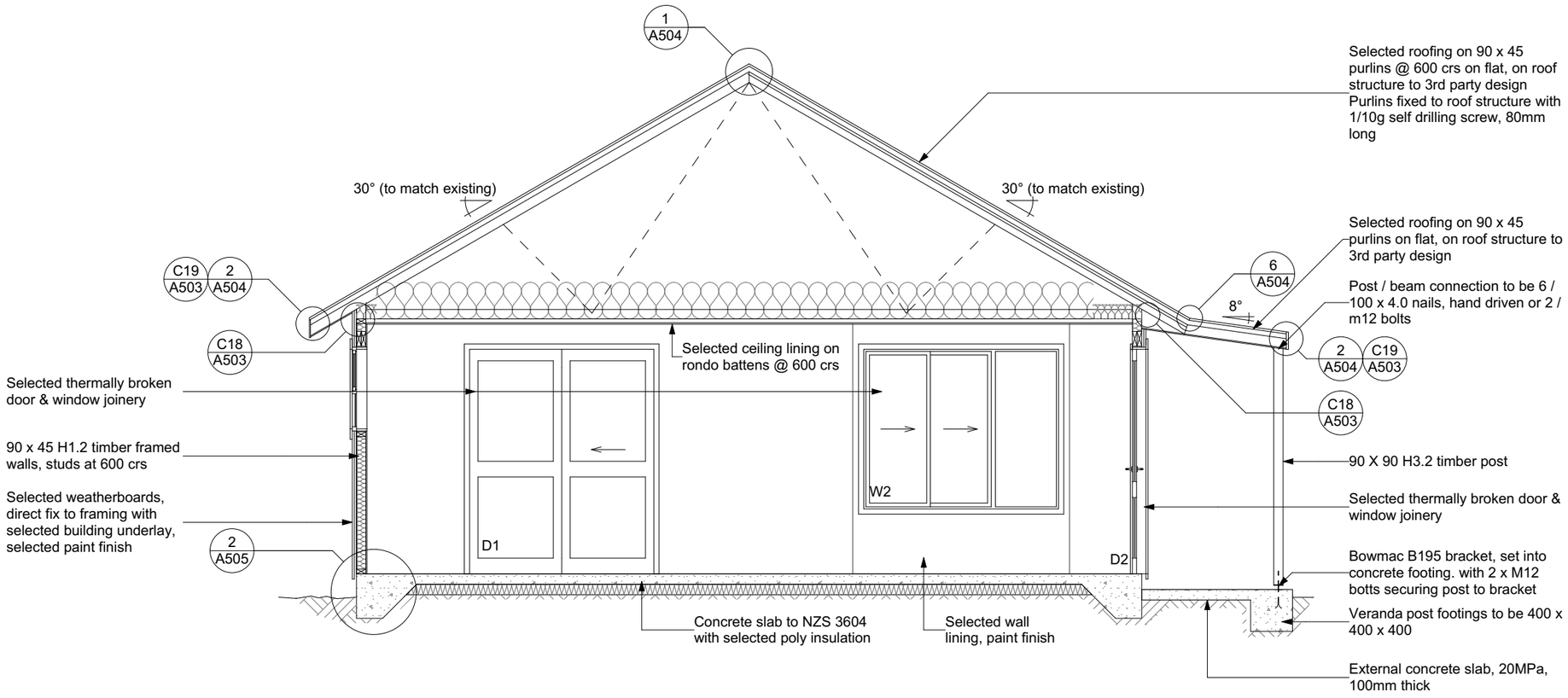
PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

Detailed Design
Section H1

DATE 24/07/2026
SCALE 1:50 @ A3

SHEET A401
REVISION 1
REF. 400.25



V1
A202

SECTION V1
1:50 @ A3

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PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

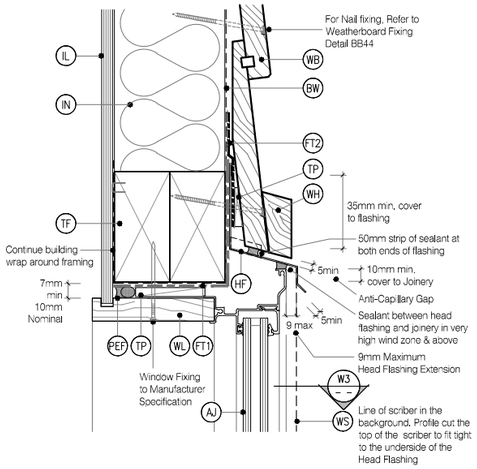
Detailed Design
Section V1

DATE 30/07/2026

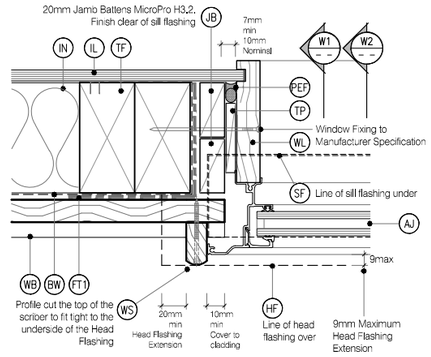
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SHEET A402
REVISION 1

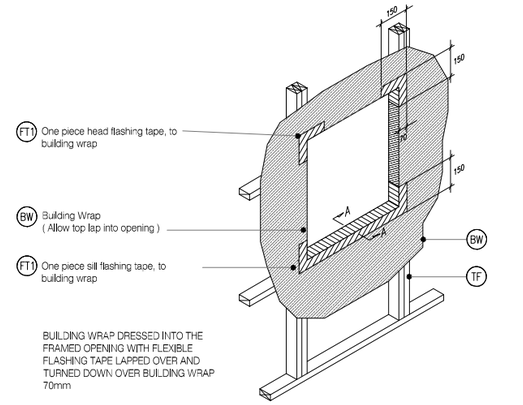
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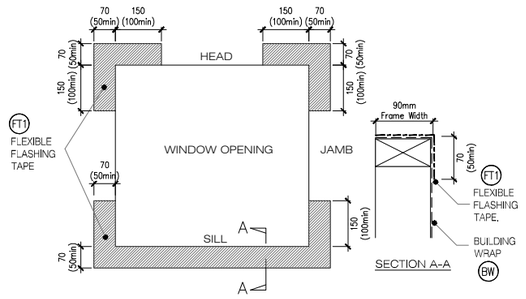
W1 BB10 WINDOW HEAD - Bevel Back WB
Direct Fix - Aluminium Joinery - Double Glazing



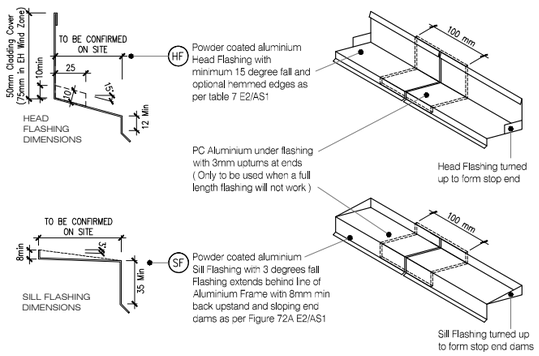
W3 BB12 WINDOW JAMB - Bevel Back WB
Direct Fix - Aluminium Joinery - Double Glazing



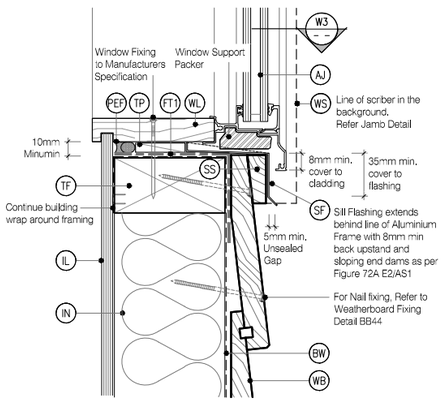
W4 BB13 TYPICAL WINDOW OPENING (FLASHING TAPE)
SCALE : N.T.S



W5 BB13 FLEXIBLE BUILDING WRAP AT OPENING



W6 BB13 TYPICAL HEAD & SILL FLASHINGS



W2 BB11 WINDOW SILL - Bevel Back WB
Direct Fix - Aluminium Joinery - Double Glazing

LEGEND:

- PEF — PEF ROD BACKING: Foam backing rod with sealant to cavity in Window perimeter that forms a waterproof air-seal, (Sealant 2:1 Ratio)
- AJ — ALUMINIUM JOINERY: Selected double glazed aluminium joinery
- IL — INTERNAL LINING: Selected Internal Lining
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23. In extra high wind zones, Rigidi Underlay required (9.1.7.2 E2/AS1)
- SF — SILL FLASHING: Powder Coater Aluminium, extend behind line of Aluminium Frame with 8mm min back upstand and sloping end dams as per Figure 72A E2/AS1
- JB — JAMB BATTENS: 20mm MicroPro H3.2. Batten stops short of sill flashing, Sill flashing runs under
- FT1 — FLASHING TAPE: Flashing tape over wrap 70mm (50 min) turn-down required in corners only. Refer to Fig. 72 of NZBC E2/AS1
- FT2 — FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped over aluminium head flashing or 2nd layer of Building Wrap to taped joint or top of frame
- TF — TIMBER FRAME: H1.2 min treated timber framing
- WB — WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- IN — INSULATION: Selected Insulation
- HF — HEAD FLASHING: Aluminium head flashing with minimum 15 degree fall and optional hemmed edges as per table 7 E2/AS1
- TP — TIMBER PACKER: MicroPro H3.2 Treated Packer
- SS — SILL SCRIBER: MicroPro H3.2. Horizontal batten under window as necessary to suit profile, sealant to back of sill scriber
- WL — WINDOW LINER: As Specified (We Recommend MicroPro H3.2 Liners & Sills)
- WH — WEATHERHEAD: MicroPro H3.2, Horizontal batten above window as necessary to suit profile, shaped to shed water, sealant to back of head scriber
- WS — WINDOW SCRIBER: KLC Generation II, MicroPro H3.2 profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size

MicroPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.1:2012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

HOW TO DETERMINE THE TIMBER WEATHERBOARD STRUCTURE :

1. Establish the " RISK" (Section 3.1 & Figure 1 E2/AS1)
2. Definition of Risk Levels (Section 3,1,1 & Taole 1 E2/AS1)
3. Building Envelope Risk Score (Section 3.1.2 & Taole 2 E2/AS1)
   The RISK MATRIX defines the RISK SCORE
4. Suitable Wall Claddings (Table 3 E2/AS1)
5. The Architect / Designer are responsibility to confirm the RISK MATRIX, RISK SCORE & SUITABLE CLADDINGS

NOTES:
Claddings in Extra High Wind Zones require:
a. Rigid underlays to (Paragraph 9,1,7,2 E2/AS1)
b. Drained Cavities to (Paragraph 9.1.8 E2/AS1)
c. Hooks and Hems on flashing upstands and additional 25mm height to (Paragraph 4.6 E2/AS1)

6. FROM TABLE 3 E2/AS1

RISK SCORE	DIRECT FIX	20mm CAVITY FIX
0 - 6	Timber Weather Boards (All Types)	(Not Required)
7 - 12	Bevel Back Timber WB Vertical Timber Board & Batten	Rusticated WB
13 - 20	(Direct Fix NOT Allowed)	Rusticated WB B.B Timber WB
20 +	(Redesign or Specific Design)	

Table 3 E2/AS1 are the minimum requirements. For extra security, you can always upgrade to a higher specification.

CAD REF : KLC DF BB10-15 - WINDOW DETAILS.dwg
DATE : 20/11/2018

KLC Naturally Better
www.klc.co.nz
DETAILS MAY BE SUBJECT TO CHANGE WITHOUT NOTICE
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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME WINDOW DETAILS - Head, Sill & Jamb - Aluminium Joinery

CODEMARK AQ-020216-CMNZ

DRAWING SCALE
ISSUE DATE 20/11/2018
DRAWING No KLC DF BB15
REVISION 0

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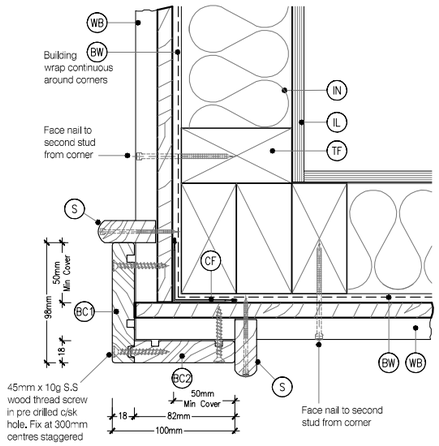
PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

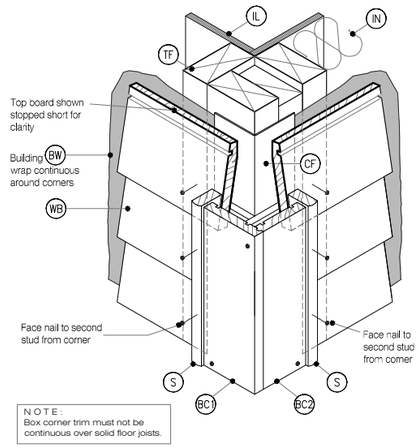
Detailed Design
Details 1 Windows

DATE 24/07/2026
SCALE 1:10 @ A3

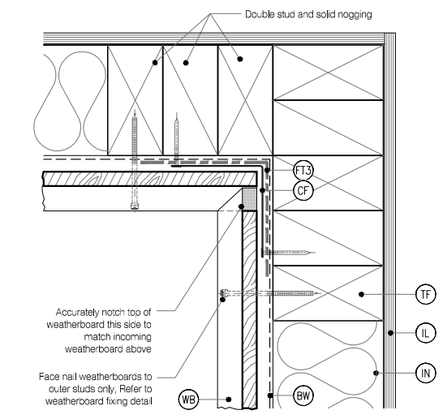
SHEET A501
REVISION 1
REF. 400.25



C10 BB50 EXTERNAL BOXED CORNER
Direct Fix - Bevel Back WB



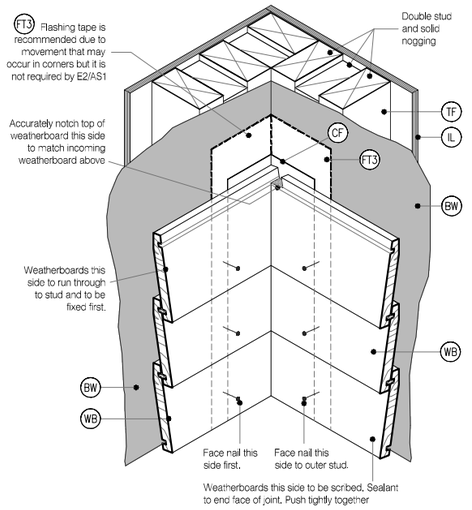
C11 BB51 3D - EXTERNAL BOXED CORNER
Direct Fix - Bevel Back WB
SCALE : N.T.S



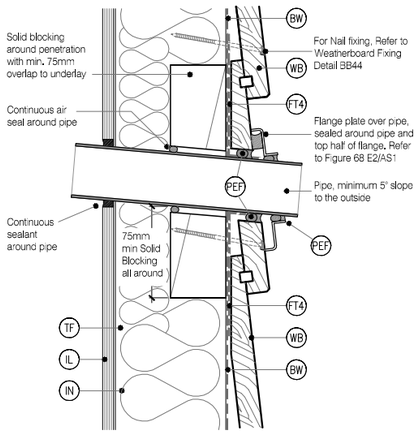
DETAIL NOTES :

1. Flashing tape is recommended due to movement that may occur in corners but it is not required by E2/AS1
2. Aluminium extrusion must not be continuous over solid floor joists.

C3 BB42 INTERNAL CORNER
Direct Fix - Bevel Back WB



C4 BB43 3D INTERNAL CORNER
Direct Fix - Bevel Back WB
SCALE : N.T.S



C14 BB54 PIPE PENETRATION
Direct Fix - Bevel Back WB

LEGEND:

- PEF — PEF ROD BACKING: Foam backing rod with sealant to perimeter that forms a waterproof air-seal. (Sealant 2:1 Ratio)
- IL — INTERNAL LINING: Selected Internal Lining
- BW — BUILDING WRAP: Flexible Wall Underlay. As per NZBC E2/AS1 – Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- TF — TIMBER FRAME: H1.2 min treated timber framing
- WB — WEATHER BOARD: KLC Generation II. MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- FT3 — FLEXIBLE FLASHING TAPE: Flexible flashing tape lapped into corner. Refer NZBC E2/AS1 4.3.11
- FT4 — FLEXIBLE FLASHING TAPE: Flexible flashing tape wrapped around pipe and over building wrap. Refer NZBC E2/AS1 4.3.11 & Figure 68
- IN — INSULATION: Selected Insulation
- BC1 — BOXED CORNER COVER : 98x18 KLC Generation II. MicroPro H3.2 Cover Batten to boxed corners
- BC2 — BOXED CORNER COVER: 85x18 KLC Generation II. MicroPro H3.2 Cover Batten to boxed corners
- CF — CORNER FLASHING: Aluminium, PVC or Stainless Steel corner flashing. Refer NZBC E2/AS1 4.3 50x50 Hem or Hook to Flashing Edges 75x75 NO, Hem or Hook Required EXTRA HIGH WIND ZONE 100x100 Hem or Hook to Flashing Edges, Refer NZBC E2/AS1 4.5.1
- S — SCRIBER: KLC Generation II. MicroPro H3.2 (10mm wide min) profile cut to fit weatherboard, sealant to back of scriber and 75 x 3.15mm Galvanised nail in 3mm predrilled hole. 40x18 or 65x18 depending on weatherboard size

MicroPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS3640:2003 and AS1604.1:2012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment: All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
6. MicroPro® is the first wood treatment process to be EPP (Environmentally Preferable Product) certified by Scientific Certification Systems based on a life cycle assessment.
7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is 'Fit-for-Purpose' and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

HOW TO DETERMINE THE TIMBER WEATHERBOARD STRUCTURE :

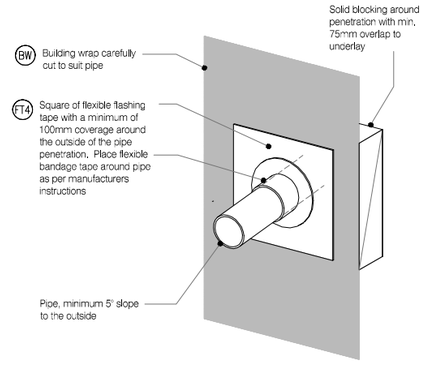
1. Establish the " RISK " (Section 3.1 & Figure 1 E2/AS1)
2. Definition of Risk Levels (Section 3.1.1 & Table 1 E2/AS1)
3. Building Envelope Risk Score (Section 3.1.2 & Table 2 E2/AS1)
   The RISK MATRIX defines the RISK SCORE
4. Suitable Wall Claddings (Table 3 E2/AS1)
5. The Architect / Designer are responsibility to confirm the RISK MATRIX, RISK SCORE & SUITABLE CLADDINGS

NOTES:
Claddings in Extra High Wind Zones require:
a. Rigid underlays to (Paragraph 9.1.7.2 E2/AS1)
b. Drained Cavities to (Paragraph 9.1.8 E2/AS1)
c. Hooks and Hems on flashing upstands and additional 25mm height to (Paragraph 4.6 E2/AS1)

6. FROM TABLE 3 E2/AS1

RISK SCORE	DIRECT FIX	20mm CAVITY FIX
0 - 6	Timber Weather Boards (All Types)	(Not Required)
7 - 12	Bevel Back Timber WB Vertical Timber Board & Batten	Rusticated WB
13 - 20	(Direct Fix NOT Allowed)	Rusticated WB B,B Timber WB
20 +	(Redesign or Specific Design)	

Table 3 E2/AS1 are the minimum requirements. For extra security, you can always upgrade to a higher specification.



C15 BB55 3D PIPE PENETRATION
Direct Fix - Bevel Back WB
SCALE : N.T.S

CAD REF : KLC DF BB50-56 - GENERAL DETAILS 02.dwg
DATE : 20/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME GENERAL DETAILS 02 - Boxed Corners & Pipe Penetrations

CODEMARK™ AQ-020216-CMNZ

DRAWING SCALE
ISSUE DATE 20/11/2018
DRAWING No KLC DF BB56
REVISION 0

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po box 999 Queenstown New Zealand phone 03 442 4258 mobile 0276405060 email: mary@jowett.co.nz web: www.jowett.co.nz

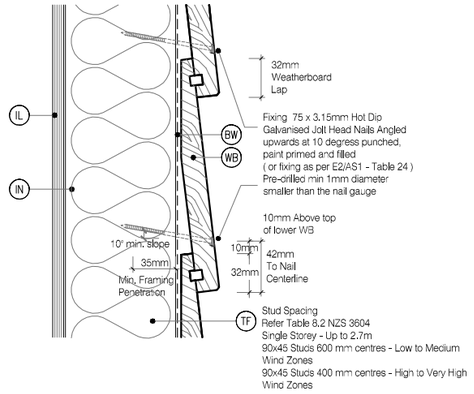
PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

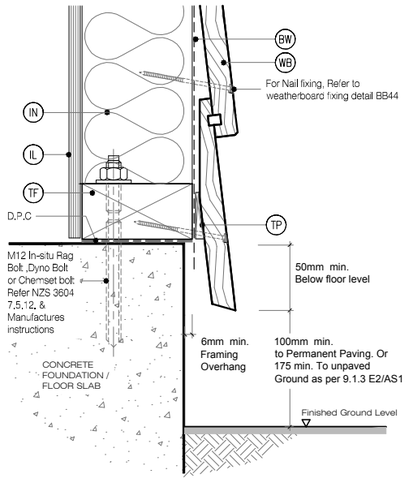
Detailed Design
Details 2 Corners & Pipe Penetrations

DATE 24/07/2026
SCALE 1:10 @ A3

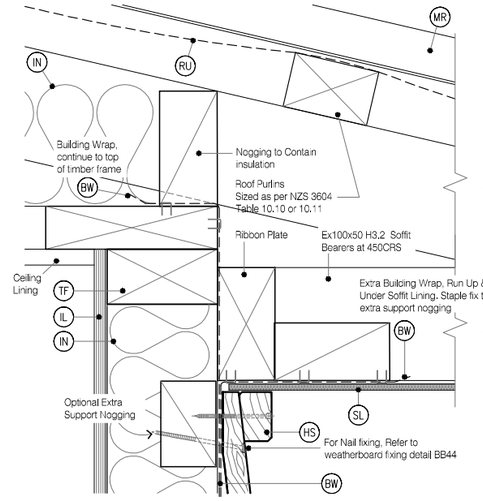
SHEET A502
REVISION 1
REF. 400.25



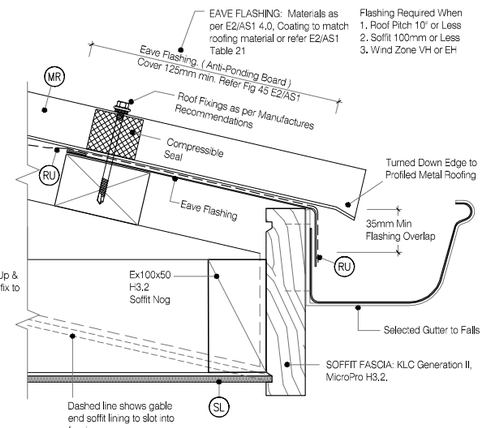
C5 BB44 WEATHERBOARD FIXING
Direct Fix - Bevel Back WB



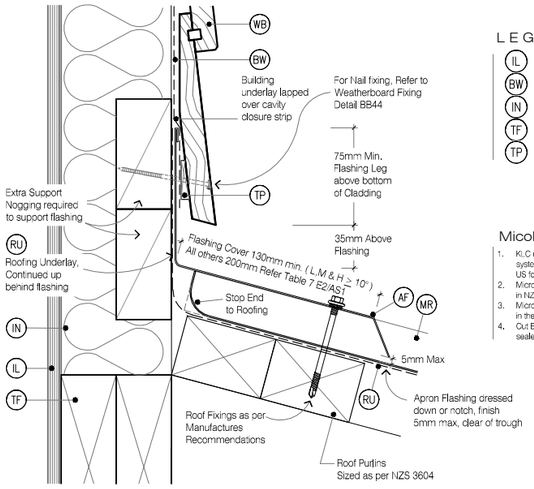
C17 BB61 BASE OF WALL, CONCRETE
Direct Fix - Bevel Backed Weatherboards



C18 BB62 WALL TO SOFFIT DETAIL
Direct Fix - Bevel Back WB



C19 BB63 SOFFIT DETAIL
Direct Fix - Bevel Back WB



C20 BB64 APRON FLASHING
ROOF TO WALL JUNCTION
Direct Fix - Bevel Back WB

LEGEND:

- IL — INTERNAL LINING: Selected Internal Lining
- BW — BUILDING WRAP: Flexible Wall Underlay, As per NZBC E2/AS1 - Table 23, In extra high wind zones, Ridgid Underlay required (9.1.7.2 E2/AS1)
- IN — INSULATION: Selected Insulation
- TF — TIMBER FRAME: H1.2 min treated timber framing
- TP — TIMBER PACKER: Cant Strip, MicroPro H3.2 Treated
- WB — WEATHER BOARD: KLC Generation II, MicroPro H3.2 Bevel Back Weatherboard. Profile to NZS 3617
- MR — METAL ROOFING : Selected Metal Roofing
- RU — ROOFING UNDERLAY: Selected Roofing Underlay As Per AS/AZS4200 with Mesh or Self Supported
- SL — SOFFIT LINING: As Selected (Typicaly 7.5mm Hardies Soffit Liner)
- HS — HEAD SOFFIT SCRIBER: KLC Generation II, MicroPro H3.2. Fix with 75 x 3.15mm Galvanised nail in 3mm predrilled hole
- AF — APRON FLASHING: Materials as per E2/AS1 4.0, Coating to match roofing material or refer E2/AS1 Table 21. Flashing Cover 130mm min. (L,M & H > 10°) All others 200mm Refer Table 7 E2/AS1
- CB — CAVITY BATTEN: 45x20 KLC Generation II, MicroPro H3.2 FJ Cavity Batten to form a 20mm cavity

MicoPro® Wood Treatment Technology

1. KLC use the MicroPro Micronized Copper Azole (MCA) based preservative system for their wood products. It accounts for 80% of wood treated in the US for domestic applications
2. Micronized Copper Azole (MCA) preservatives are EPA-approved for use in NZ and AUS to NZS36140:2003 and AS1604.1:2012
3. MicroPro preservative is applied using high-pressure and vacuum-pressure in the impregnation process in KLC's modern, automated treatment facility.
4. Cut End Treatment : All cut ends surfaces are to be double coated and sealed before fixing. With a alkyd (oil based) primer
5. MicroPro preservative solution has benefits of reduced corrosivity. Use Hot Dip Galvanised Fasteners & Stainless Steel fasteners. MicroPro may be placed in direct contact with Aluminium Building products in interior applications, and above ground exterior applications that provide proper water drainage
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7. MicroPro® is environmentally sustainable, is low leaching, low VOC emissions and the award of the GREENGUARD Children and Schools' Certification from the Greenguard® Environmental Institute.
8. MicroPro® Wood Treatment Technology has received a Global GreenTag GreenRate™ Level A this declaration is "Fit-for-Purpose" and confirmed for Green Building compliance.
9. MicroPro® Wood Treatment Technology has received GreenTag PhD™ proving claims that MicroPro® is safe for human health (and ecosystems).

HOW TO DETERMINE THE TIMBER WEATHERBOARD STRUCTURE :

1. Establish the " RISK" (Section 3,1 & Figure 1 E2/AS1)
2. Definition of Risk Levels (Section 3,1,1 & Table 1 E2/AS1)
3. Building Envelope Risk Score (Section 3,1,2 & Table 2 E2/AS1)
   The RISK MATRIX defines the RISK SCORE
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NOTES:
Claddings in Extra High Wind Zones require:
a. Rigid underlays to (Paragraph 9.1.7.2 E2/AS1)
b. Drained Cavities to (Paragraph 9.1.8 E2/AS1)
c. Hooks and Hems on flashing upstands and additional 25mm height to (Paragraph 4.6 E2/AS1)

6. FROM TABLE 3 E2/AS1

RISK SCORE	DIRECT FIX	20mm CAVITY FIX
0 - 6	Timber Weather Boards (All Types)	(Not Required)
7 - 12	Bevel Back Timber WB Vertical Timber Board & Batten	Rusticated WB
13 - 20	(Direct Fix NOT Allowed)	Rusticated WB B,B Timber WB
20 +	(Redesign or Specific Design)	

Table 3 E2/AS1 are the minimum requirements, For extra security, you can always upgrade to a higher specification.

CAD REF : KLC DF BB60-66 - GENERAL DETAILS 03.dwg
DATE : 27/11/2018

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TYPE Generation II H3.2 Exterior Cladding Systems
Bevel Back Weatherboard - Direct Fix

NAME GENERAL DETAILS 03 - Base and Roof to Wall & Soffit Details

CODEMARK AQ-020216-CMNZ

DRAWING SCALE
ISSUE DATE 20/11/2018
DRAWING No KLC DF BB66
REVISION 0

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po box 999 Queenstown New Zealand phone 03 442 4258 mobile 0276405060 email: mary@jowett.co.nz web: www.jowett.co.nz

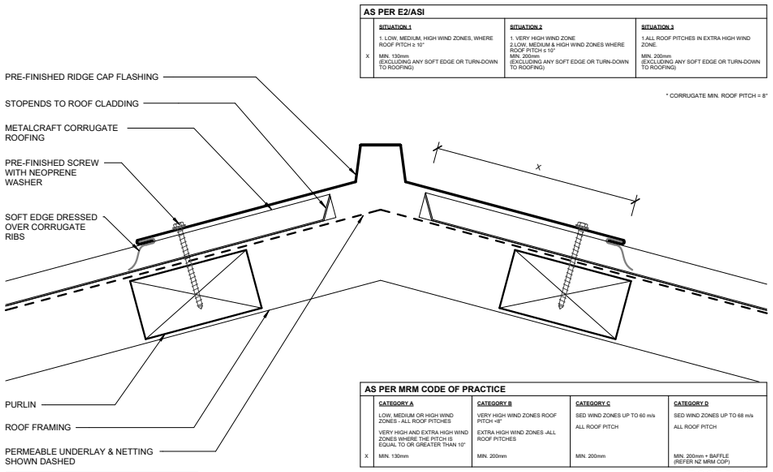
PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

Detailed Design
Details 3 Base of Cladding.Soffit, Apron

DATE 24/07/2026
SCALE 1:10 @ A3

SHEET A503
REVISION 1
REF. 400.25



AS PER E2/AS1			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 10°	1. VERY HIGH WIND ZONE 2 LOW, MEDIUM & HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1 ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE.
X	MIN. 130mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	MIN. 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)

* CORRUGATE MIN. ROOF PITCH = 8°

AS PER MRM CODE OF PRACTICE				
	CATEGORY A	CATEGORY B	CATEGORY C	CATEGORY D
	LOW, MEDIUM OR HIGH WIND ZONES - ALL ROOF PITCHES VERY HIGH AND EXTRA HIGH WIND ZONES WHERE THE PITCH IS EQUAL TO OR GREATER THAN 10°	VERY HIGH WIND ZONES ROOF PITCH >8° EXTRA HIGH WIND ZONES -ALL ROOF PITCHES	SED WIND ZONES UP TO 60 m/s ALL ROOF PITCH	SED WIND ZONES UP TO 68 m/s ALL ROOF PITCH
X	MIN. 130mm	MIN. 200mm	MIN. 200mm	MIN. 200mm + BAFFLE (REFER NZ MRM COP)

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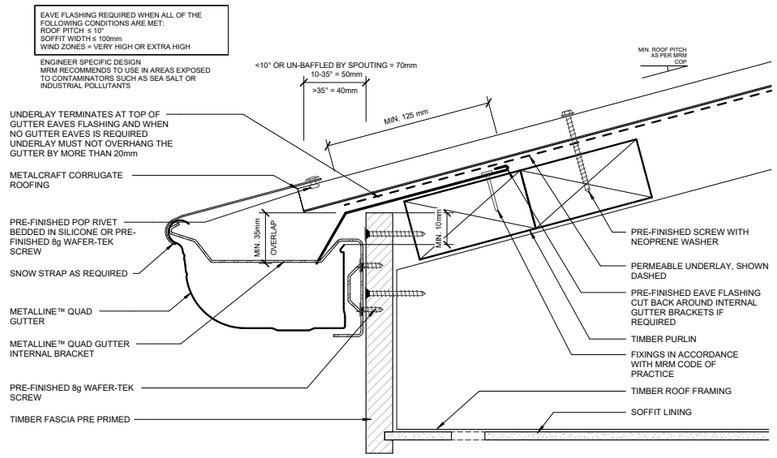
DISCLAIMER:
All details are to be used for indicative purposes only and the designer should consult both the MRM code of practice and E2 and all other relevant building codes
Details of the supporting mechanisms are indicative only. Compliance of the supporting mechanisms is the responsibility of the designer. Construction detail can vary for wall cladding. The underlay is detailed as a single line for simplicity and is indicative only. Building paper type and method of installation should comply with underlay manufacturers recommendations and NZBC regulations.

Corrugate Rev. 3.0 RESIDENTIAL ROOFING

ROOF RIDGE

Reference RRCG Date SEP 2024 Sheet **A 01 / 26**

1 / A402 RIDGE FLASHING



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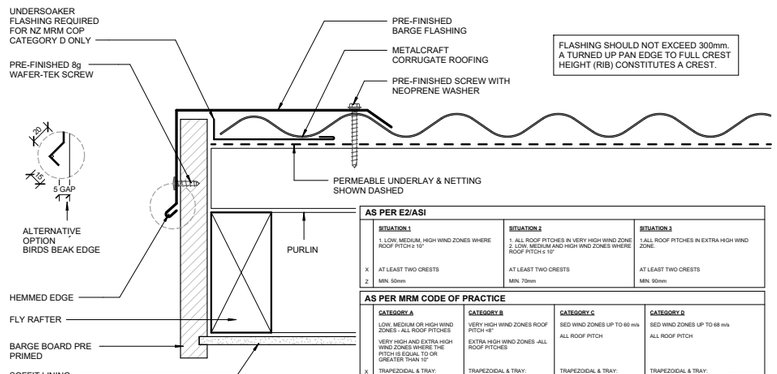
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Corrugate Rev. 3.0 RESIDENTIAL ROOFING

EAVE WITH SNOW STRAP

Reference RRCG Date SEP 2024 Sheet **A 12 / 26**

2 / A402 EAVE WITH SPOUTING & SOFFIT



AS PER E2/ASI			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH ≥ 10°	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM AND HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1 ALL ROOF PITCHES IN EXTRA HIGH WIND ZONE.
X	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS	AT LEAST TWO CRESTS
Z	MIN. 50mm	MIN. 70mm	MIN. 90mm

AS PER MRM CODE OF PRACTICE				
	CATEGORY A	CATEGORY B	CATEGORY C	CATEGORY D
	LOW, MEDIUM OR HIGH WIND ZONES - ALL ROOF PITCHES VERY HIGH AND EXTRA HIGH WIND ZONES WHERE THE PITCH IS EQUAL TO OR GREATER THAN 10°	VERY HIGH WIND ZONES ROOF PITCH >8° EXTRA HIGH WIND ZONES -ALL ROOF PITCHES	SED WIND ZONES UP TO 60 m/s ALL ROOF PITCH	SED WIND ZONES UP TO 68 m/s ALL ROOF PITCH
X	TRAPEZOIDAL & TRAY: ONE RIB CORRUGATE: 2 CORRUGATIONS	TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* ONE RIB (>34mm)* CORRUGATE: 2 CORRUGATIONS	TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* ONE RIB (>34mm)* CORRUGATE: 3 CORRUGATIONS	TRAPEZOIDAL & TRAY: TWO RIBS (20mm - 34mm)* + UNDERSOAKER ONE RIB (>34mm)* + UNDERSOAKER CORRUGATE: 2 CORRUGATIONS + UNDERSOAKER
Z	MIN. 50mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 75mm (VERTICALLY DOWN FACE - PROFILED)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 100mm (VERTICALLY DOWN FACE - PROFILED)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 125mm (VERTICALLY DOWN FACE - PROFILED)	MIN. 75mm (VERTICALLY DOWN FACE - SMOOTH) MIN. 125mm (VERTICALLY DOWN FACE - PROFILED)

* RIB HEIGHT OF PROFILE OR TURNUP

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Corrugate Rev. 3.0 RESIDENTIAL ROOFING

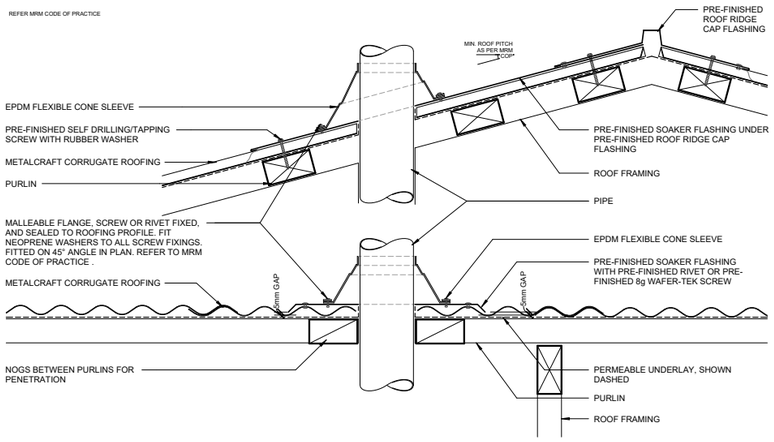
BARGE WITH SOFFIT

Reference RRCG Date SEP 2024 Sheet **A 14 / 26**

3 / A401 BARGE WITH SOFFIT

* MINIMUM PITCH 8° FOR PIPE PENETRATION BACK TRAY WITH BOOT FLASHINGS MUST BE FIXED DIAGONALLY TO THE FALL OF THE ROOF.

REFER MRM CODE OF PRACTICE



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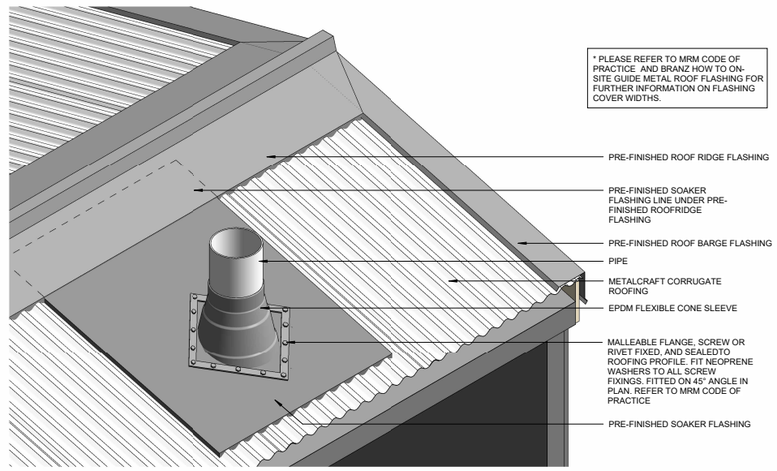
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PIPE PENETRATION BACK TRAY BOOT FLASHING

Corrugate Rev. 3.0 RESIDENTIAL ROOFING

Reference RRCG Date SEP 2024 Sheet **A 19 / 26**

4 / A102 FLUE PENETRATION



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BACK TRAY PENETRATION

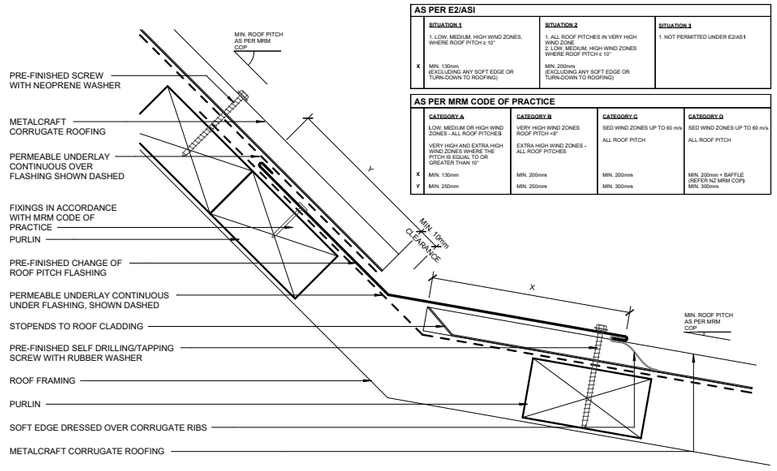
Corrugate Rev. 3.0 RESIDENTIAL ROOFING

Reference RRCG Date SEP 2024 Sheet **A 23 / 26**

5 / A102 FLUE PENETRATION

AS PER E2/ASI			
	SITUATION 1	SITUATION 2	SITUATION 3
	1. LOW, MEDIUM, HIGH WIND ZONES, WHERE ROOF PITCH ≥ 10°	1. ALL ROOF PITCHES IN VERY HIGH WIND ZONE 2. LOW, MEDIUM, HIGH WIND ZONES WHERE ROOF PITCH ≤ 10°	1. NOT PERMITTED UNDER E2/AS1
X	MIN. 130mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	MIN 200mm (EXCLUDING ANY SOFT EDGE OR TURN-DOWN TO ROOFING)	

AS PER MRM CODE OF PRACTICE				
	CATEGORY A	CATEGORY B	CATEGORY C	CATEGORY D
	LOW, MEDIUM OR HIGH WIND ZONES - ALL ROOF PITCHES VERY HIGH AND EXTRA HIGH WIND ZONES WHERE THE PITCH IS EQUAL TO OR GREATER THAN 10°	VERY HIGH WIND ZONES ROOF PITCH >8° EXTRA HIGH WIND ZONES - ALL ROOF PITCHES	SED WIND ZONES UP TO 60 m/s ALL ROOF PITCH	SED WIND ZONES UP TO 60 m/s ALL ROOF PITCH
X	MIN. 130mm	MIN. 200mm	MIN. 200mm	MIN. 200mm + BAFFLE (REFER NZ MRM COP)
Y	MIN. 250mm	MIN. 250mm	MIN. 300mm	MIN. 300mm



Metalcraft Roofing www.metalcraftgroup.co.nz

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ROOF - CHANGE PITCH

Corrugate Rev. 3.0 RESIDENTIAL ROOFING

Reference RRCG Date SEP 2024 Sheet **A 10 / 26**

6 / A402 CHANGE IN PITCH FLASHING

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po box 999 Queenstown New Zealand phone 03 442 4258 mobile 0276405060 email: mary@jowett.co.nz web: www.jowett.co.nz

PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
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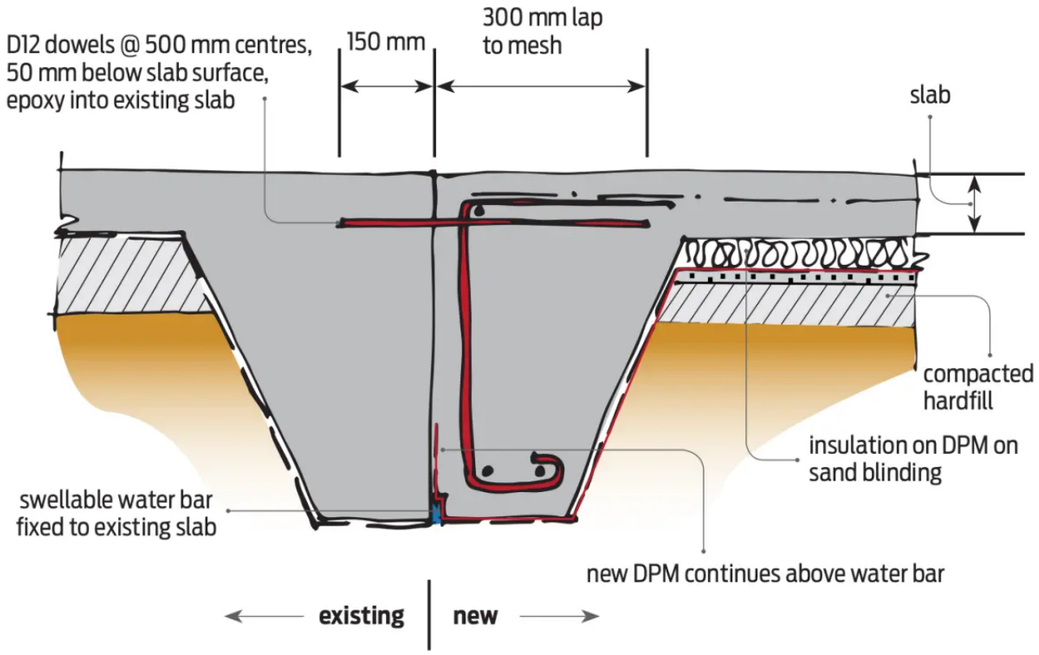
Detailed Design
Details 4 Roofing

DATE 24/07/2026

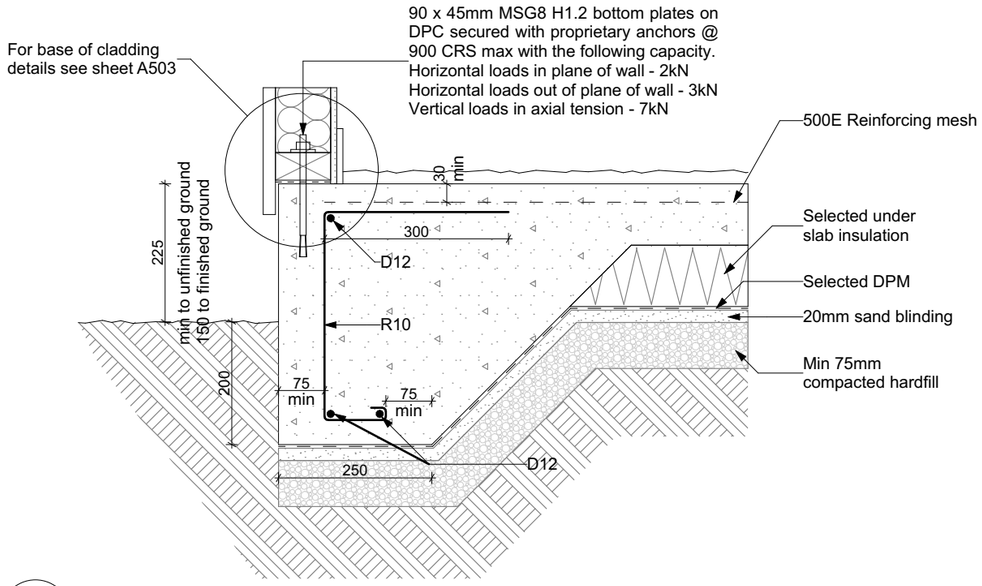
SCALE 1:10 @ A3

SHEET A504
REVISION 1

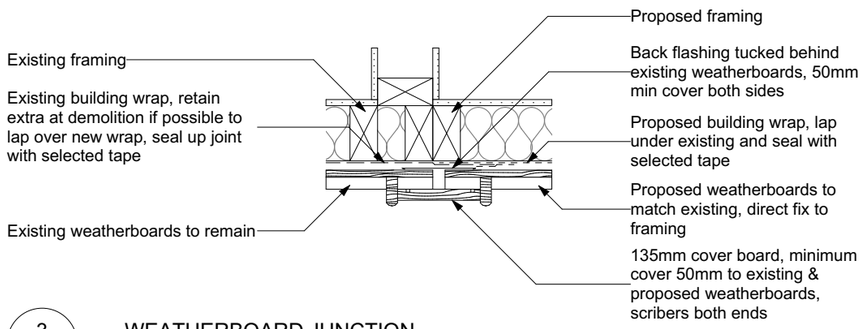
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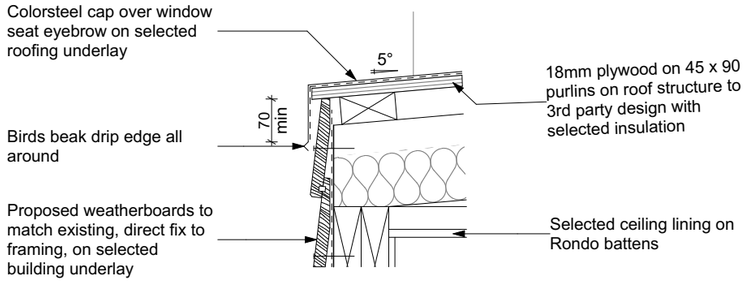
1 / A401 SLAB JUNCTION
BRANZ At the junction Fig 2



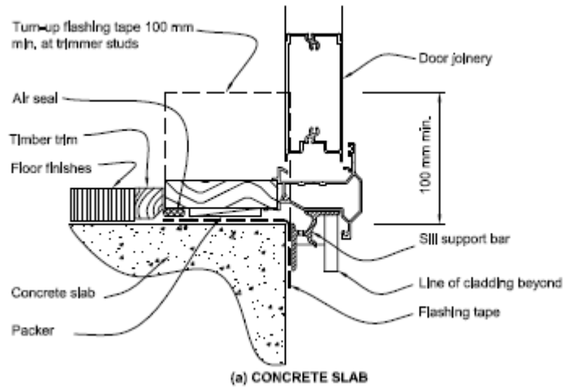
2 / A401 SLAB EDGE
NZS 3604 Fig 7.13



3 / A202 WEATHERBOARD JUNCTION



4 / A401 COLOUSTEEL CAP / WALL
E2 / AS1 FIG 47 similar



5 / A303 DOOR SILL
E2 / AS1 FIG 17C

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PROPOSED STUDIO EXTENSION @
26 ESSEX AVE, ARROWTOWN FOR V PATTON & M MORGAN
LOT 37 DP 323992

REV	Revision description	By	Date
1	BC	tl/mj	15/07/26

Detailed Design
Details 5 Slab, Cladding & Window Seat Roof

DATE 24/07/2026
SCALE 1:10 @ A3

SHEET A505
REVISION 1
REF. 400.25