



**COWICHAN VALLEY REGIONAL DISTRICT
ENGINEERING SERVICES**

ADDENDUM NUMBER 2

**MEADE CREEK RECYCLING CENTRE TENDER FOR RECYCLING & WASTE
MANAGEMENT DIVISION
REFERENCE NO. ES-016-17
MAY 1, 2017**

This Addendum shall be read in conjunction with and considered as an integral part of the tender. Submitted Quotations shall include all items of this Addendum.

No consideration will be allowed for any extra due to any Proponent not being familiar with the contents of this Addendum.

RECEIPT OF THIS ADDENDUM MUST BE ACKNOWLEDGED BY PRINTING AND ATTACHING A COPY OF THIS ADDENDUM TO THE PROPONENT PROPOSAL FOR TENDER NO. ES-016-17.

The Addendum is as follows:

Questions:

1. Item #03 30 53 d) Non Mountable curb 430 lm

Page 6 of 21 Supplementary Specifications item #4 Non Mountable curb describes installation of bollards?. Can we assume this curb is the mmcd c4 profile curb?

And that no bollards are associated with it. Also the machined curb work requires no obstacle such as bollards rails retaining walls with in a meter of back of curb.

Can you confirm this, as the drawings are not clear.

2. Item #1 100mm thick Asphalt 9300 m2 - paving only in two 50mm lifts. Is there a colas tack coat between lifts?

3. Item #2 100mm thick stamped asphalt 540 m2

Includes a) 100mm thick asphalt

b) Stamping of asphalt surface

My question in Item #2 stamped asphalt –please confirm if this bid item includes asphalt(100mm) or is it covered in item #1 quantity and is stamping only?

And can you please confirm the stamp pattern and colour.

4. 33 11 01 – Waterworks

.1 Backflow chamber – what size opening required? hatch or a manhole casting?

5. 33 44 01 – Manholes & CB's

.1 I see x9 manholes. DMH 1-8 & SMH A. can you confirm?

.2 Beehive CB into DMH 6. Can you confirm what pay item to include on?

.3 Flow control Structure & concrete headwalls w/dissipators. Can you confirm what pay item to include on?

6. We are looking at the steel portion of this project and have a few questions , first do you have any size or spec for the welded wire mesh guard shown on drawing A4.10 . Secondly on the drawings it is calling for the steel to be powder coated, this will be very costly, if it is even feasible due to the size of the steel members, can we offer alternative finishes?
7. Wayfinding 6-A1.00
 - .1 What are the finishes/materials for individual sign blades?
 - .2 Finish on steel recessed channel
 - .3 Method of attachment to concrete foundation
 - .4 Actual lettering is vinyl cut? Milled in and paint filled?
 - .5 Single sided or double sided
8. Entrance Sign 5-A1.00
 - .1 What is the thickness/finish and material for the letters?
 - .2 Are the letters flush mounted or pin mounted?
 - .3 What is the finish and thickness for the curved steel bracket and steel bars?
9. I see the lighting specification is mostly Philips, but I would like to ask if you would be willing to review an alternate for fixture type D?
10. 33 11 01 – Waterworks
 - .1 50mm Watermain - C900 DR18 Watermain does not exist as shown on pay items. Assume HDPE as shown on plans. Can you clarify if HDPE DR11 or Municipal 200#?
11. One of our Overhead Door suppliers has asked if you would consider the attached products as alternates. As noted, the Wayne Dalton door is the TS 125, the Steel Craft door is the TD 138.
12. Please clarify Answer #9 which indicates “Handrails are to be galvanised after fabrication per MMCD C14. Alternately the steel handrails can be primed in the shop and field painted per Architectural Specs”.

Is “primed in the shop and field painted” an alternative for hot dip galvanising or for powder coating? Please confirm.
13. What are the sizes, specs, material, finished, sign types, and quantities for the interior & outdoor signs.
14. We are looking at pricing the electrical portion, which is to include Intercom System, however I cannot seem to find the Intercom spec, please advise.
15. Can you please find out where the item for 150mm Thick Concrete Walkway in the Schedule of Quantities is on the drawings?
16. Can you please find out where the Concrete Sidewalk, MMCD C2, drawing C102 is on the Schedule of Quantities?
17. I would like to confirm that the GCL for the Settlement Pond, only comes partially down the slope on the "Construction West" and "Construction South" slopes (C111-Plan C111 Section A and Section B). I would also like to confirm there is no GCL on the "Construction North" slope of the Settlement Pond (C112 Section A, 12102-101 -Plan, 12102-102-Detail 2).
18. Drawing E02 illustrates fixture Type B mounted in the ceiling above the covered patio of the scale building. Type B is noted as a recessed fixture and the roof over the patio is noted as an R2 type roof assembly (no soffit space) please review and advise.
19. Are the traffic signals supplied and installed by Division 41?
20. Is there a specification for the traffic control lighting at the scale building?
21. Is there a mounting detail for how the traffic control lights are to be mounted ahead of the incoming scale?

22. Electrical scope of work for the building demolition.
23. We assume that BCH will disconnect power to the site and remove their pole leaving everything else without power and safe for removal...is this assumption correct?
24. The Tender Form has 2 different versions of Appendix 4. Shouldn't there just be 1 form Appendix 4? I also noticed that there isn't an Appendix 3. Perhaps the intent was for there to be an Appendix 3 and Appendix 4, just not 2 Appendix 4.

Answers:

1. This is an error in the specification text; please replace the word "bollard" with "non-mountable curb" The curb profile is the barrier curb profile as shown on MMCD C4. The contractor is responsible for installation methods to suit the site design and constraints.
2. Yes a tack coat is required between the two lifts
3. The bid item for the stamped asphalt includes the 100 mm of asphalt. The pattern shall be herringbone and the colour shall be light tan or light grey. A colour sample shall be provided for review and approval of the Architect before proceeding with the work.
4. Backflow chamber to be Armtec Model 3152 C/W 1.2 m square hatch (boulevard use) or approved equal. Access lid to be galvanized with recessed padlock and weld marking "Fire Water"
5. Correct there are 8 drain manhole and 1 sewer manhole, revised Form of Tender attached
 - beehive CB to be included in the rain garden payment item
 - flow control structure and headwalls to be included in the Detention Pond payment as described in the Supplementary Specifications Part III.
6. See attachment from Finlayson Bonet Architecture firm
7. See attachment from Finlayson Bonet Architecture firm
8. See attachment from Finlayson Bonet Architecture firm
9. The Startek Lighting, LST 18HP D 40K S P5 DME ADU with motion and daylight sensor is an approved alternate for the Type D Luminaire Fixture
10. The 50mm diameter Watermain shown on Dwg. C107 should read HDPE DR11. The attached revised Schedule of Quantities and Prices reflects the HDPE pipe material.
11. See attachment from Finlayson Bonet Architecture firm
12. Hand railings primed in the shop and field painted is an alternate to powder coating
13. Size and shape of the indoor and outdoor signs are noted on Drawing C113.

The indoor and outdoor signs are to be aluminum and shall conform to the requirements of the Manual of Standard Traffic Signs and Marking published by the BC Ministry of Transportation and Infrastructure as noted on Drawing C113.

The quantities for the indoor and outdoor signs are noted under Division 13 Special Construction in the Form of Tender, Appendix 1 – Schedule of Quantities and Prices

Addend the electrical specs as follows:

14. Amend the electrical specification Section 27 30 33 as follows:

Add Sentence: 1.1 Scope of Work

- .4 Provide complete standalone point to multipoint intercom system with one master station and minimum 5 remote locations as indicated on the drawings and in these specifications.
- .5 Provide and install a complete telephone system as indicated in these specifications.

Add sentence: 2.4 Intercom System

- .1 Provide desk mount Master Station. Provide Aiphone IX-MV.
- .2 Provide weather resistant surface mount audio door station complete with stainless steel housing. Provide Aiphone IX-BA & IX-SDH.
- .3 Provide rack mountable minimum 8 port PoE module in IT/Data room.
- .4 Provide all Cat 5 wiring in conduit required for complete installation of intercom system. Conduit shall be minimum 21mm.

Add sentence 2.5 Telephone System

- .1 Provide a complete telephone system complete with 6 handsets, minimum 2 line capability, voice mail for 10 users and ability to hold or transfer calls.
- .2 Telephone system shall be rack mountable.

Add Sentence: 3.3 Intercom System

- .1 Audio door station conduits shall terminate in the IT/Data closet.
- .2 Audio door stations shall be surface mounted to lighting poles or building structure.
- .3 Master station shall be located on attendants' desk in scale office.

Add sentence 3.4 Telephone System

- .1 Mount telephone system in rack in IT/Data closet.
 - .2 Provide patch cables from structured cabling terminations to telephone system for all available telephone lines.
 - .3 Provide complete programming of telephone system
 - .4 Provide minimum one hour training for CVRD staff.
15. See Dwg. C102, concrete walkway is located at the south end of the Recycling Building to access the Public Washroom
 16. Concrete Sidewalk is included under Division 03 Concrete 150mm Thick Concrete Walkway in the Schedule of Quantities and Prices.
 17. As per Typical Detail (2) on Thurber Dwg. 12-102-102, GLC is required for the entire capped ash stockpile and extend to the native soil.
 18. Refer to attached Figure E01 ADD3 for Type H fixture for the covered patio of the Scale Housing.
 19. Yes
 20. The traffic control lights shall be Fortran Model 8-8 Red/Green Signal c/w vertical mounting brackets - BRK949 plate mount for mounting directly to the wall (exit signal) and the column (entry signal). See attached cut sheets.
 21. Refer to Architectural drawing for location and cut sheets attached for mounting hardware. Electrical feed shall be surface mounted.

22. Yes, there is basic lighting and sockets in both the existing buildings which will have to be removed as part of the demolition.
23. Yes, BC Hydro will be contacted by the CVRD to disconnect power to the site prior to demolition. The Contractor will be responsible for coordinating temporary power during construction as outlined in the specification.
24. See attached revised Form of Tender with Appendices 1 through 5.

All tenders shall acknowledge receipt and acceptance of this Addendum No. **ES-016-17** by signing in the space provided and SENDING THIS PAGE IMMEDIATELY BY FAX TO KERR WOOD LEIDAL (604) 294-2090. All tenderers shall submit this signed Addendum with their tender. Tenders submitted without this Addendum may be considered incomplete.

Receipt acknowledged and conditions agreed this ____ of _____, **2017**.

Tenderer

Signature

- ☼ **Easy Side-of-Pole Access**
- ☼ **Strong & Durable**
- ☼ **Added Stability**
- ☼ **Custom Lengths Available**
- ☼ **Application Specific**

Fortran offers a variety of lengths and types of Vertical Brackets for your specific traffic signal mounting requirements. They are available in one, two, or three way mounting configurations. Fortran has sold thousands, and is widely used across North America.

The vertical bracket provides a strong and durable mounting for Pedestrian Signals and Traffic Signals from side-of-pole.

The vertical bracket consists of a pair of aluminum arms. Each arm has a length of pipe, which has a threaded elbow at one end and a pole plate at the other. A typical installation has the pole plate attached to a pole with stainless steel strapping - two steel straps are recommended for each pole plate (not included with the bracket). The pole plate can be mounted to a wall, or wood, steel, concrete pole. The signal head can be rotated to face in any direction.

Standard arm length is 16 inches. Other lengths are also available to suit the application.

Vertical brackets fit traffic signal heads with a two inch diameter opening.



Specifications

Material: Pole Plate: Cast Aluminum
Elbow: Cast Aluminum
Pipe: Aluminum

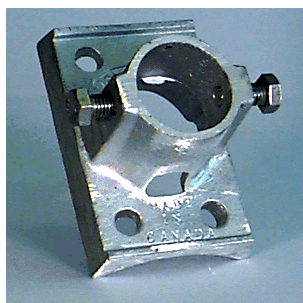
Finish: Unpainted
Can be painted as per request

Part #	Description
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BRK949	Vertical Bracket - One Way
BRK133	Vertical Bracket - Two Way
ELB004	90° Elbow

Part #	Description
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PLA380	Pole Plate
BAN322	¾" Bandit Strapping, Stainless Steel (100ft. roll)
BAN325	¾" Bandit Clips, Stainless Steel



PLA380 - Pole Plate



ELB004 - 90° Elbow

Ordering Information

Fortran has many other types of mounting hardware available to meet your specific needs. Please contact Sales @ Fortran Traffic Systems Limited.



Fortran Traffic Systems Limited
470 Midwest Road
Toronto, Ontario
Canada M1P 4Y5
Telephone: (416) 288-1320
Toll Free: 1-800-387-4555
www.fortrantraffic.com

8-8 Red/Green Signal



Features

- Exceeds ITE 2005 Specifications
- Modular Design
- Lightweight
- Low Maintenance
- Strong and Durable
- Weatherproof Enclosure
- ESA Approved



Overview

Fortran's 8-8 Red/Green Polycarbonate Signal Head is a proven winner. Over the past twenty years, our signal heads have been installed in thousands of intersections across North America.

Polycarbonate signals are replacing aluminum signals because they provide a complete, versatile and reliable product at a significantly lower cost than aluminum signals. The polycarbonate signals is also much lighter to work with, and is easier to install.

Our poly signal line has been designed using a "Building Block" approach—individual signal housings can be quickly and easily combined to meet your specific signaling requirements.

Fortran's polycarbonate signals are made from a very tough, impact resistant, flame retardant, UV stabilized polycarbonate material. The colour is uniform throughout the thickness of the material, eliminating the fading and paint peeling associated with the aluminum signals. Poly signals have been tested to withstand severe weather conditions. Stainless steel hardware is used throughout.

Each section has a bottom drip shield to prevent water infiltrations. Neoprene gaskets on both door and lens completely seal the interior of the traffic signal head. Dual latches and hinges keep the doors well secured to prevent moisture and dirt from entering.

Fortran's LEDs are state of the art, exceeding ITE 2004 specifications, and ETL listed.

The 8-8 Red/Green Signal is used for many applications, such as Loading Bays, Car Washes, Private Roadways, etc.

8-8 Red/Green Signal



Specifications

Material:	UV Stabilized Flame Retardant Polycarbonate	Power:	120 VAC
Dimensions:	Dimensions in inches (mm)	Visors:	Standard: Cowl (Cap) Also available: Tunnel
Weight:	Weight in lbs. (kg)		
Colour:	Standard: Traffic Yellow, Black, Grey and Green <i>Other colours are also available by request. Housings, Doors and Visors can be combined</i>	Backboard:	Sold separately. <i>Fortran's PolyFlex™ Backboard is recommended. Other backboards are also available.</i>

Ordering Information

Part Number	Configuration	Housing Colour	Door/Visor Colour	Length	Width	Depth	Weight
P2LZ400	8-8 R, G LED	Yellow	Yellow/Yellow	20.00 (508)	10.00 (254)	6.00 (152)	9.1 (4.13)
P2LZ000	8-8 R, G LED	Black	Black/Black	20.00 (508)	10.00 (254)	6.00 (152)	9.1 (4.13)

Fortran has many other configurations to meet your specific requirements.

For other configurations, options, and accessories, please contact the Sales Department at Fortran Traffic Systems Limited.

Fortran Traffic Systems Limited

CENTRAL OFFICE

470 Midwest Road
Toronto, ON M1P 4Y5

Toll Free: 1 (800) 387-4555

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Unit 110
Surrey, BC V3W 4N1

Tel: (604) 502-9680

Fax: (604) 502-9681

Moving Traffic and People 

www.fortrantraffic.com

Master Municipal Specifications Platinum Edition 2009	FORM OF TENDER COWICHAN VALLEY REGIONAL DISTRICT MEADE CREEK RECYCLING FACILITY Reference Number: ES-016-17				Revised Addendum No. 2	
Appendix 1 SCHEDULE OF QUANTITIES AND PRICES (See paragraph 5.3.2 of the Instructions to Tenderers - Part II) (All prices and Quotations including the Contract Price shall NOT include GST.)						
Division	Section	Descriptions	Unit	Unit Price \$	Quantity	Total \$
01	GENERAL REQUIREMENTS					
	01 33 01	Project Record Documents	L.S.		1	
	01 42 00	Reference Specifications	Incidental		-	
	01 51 01	Temporary Utilities and Lighting	Incidental		-	
	01 52 01	Temporary Structures	Incidental		-	
	01 53 01	Temporary Facilities	Incidental		-	
	01 55 00	Traffic Control, Vehicle Access and Parking	Incidental		-	
	01 57 01	Environmental Protection	L.S.		1	
	01 58 01	Project Identification	Incidental		-	
	01 71 13s	Mobilization & Demobilization - max 2% of total Contract Price	L.S.		1	
	GC	Bonding & Insurance - max 1 % of total Contract Price	L.S.		1	
Subtotal Division 01 - General Requirements					\$	
02	EXISTING CONDITIONS					
	02 41 16	Demolition				
		Site Demolition	L.S.		1	
		Building Demolition	L.S.		1	
		Weigh Scale Decommission and Removal	L.S.		1	
		Decommission Existing Septic System	L.S.		1	
	02 61 00	Landfill Closure				
		Ash Residuals Excavation and Relocation	cu m		4800	
		Landfill Cap	sq.m.		5520	
		Landfill Cap Tie In	lm		290	
		Abandon Existing Monitoring Well	each		9	
	New Monitoring Well	each		4		
Subtotal Division 03 - Concrete					\$	
03	CONCRETE					
	03 20 01	Concrete Reinforcement	Incidental		-	
	03 30 53	Cast-In-Place Concrete				
		200mm Thick Concrete Pad	sq m		320	
		150mm Thick Concrete Walkway	sq m		12	
		Reinforced Lock Block Wall	sq m		1,040	
		Non Mountable Concrete Curb	lm		430	
Subtotal Division 03 - Concrete					\$	

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Division	Section	Descriptions	Unit	Unit Price \$	Quantity	Total \$	
13	SPECIAL CONSTRUCTION						
	Architectural and Structural						
		Scale House Complete	L.S.		1		
		Recycling Building Complete	L.S.		1		
	Mechanical						
		Scale House HVAC	L.S.		1		
		Recycling Building HVAC	L.S.		1		
		Scale House Plumbing	L.S.		1		
		Recycling Building Plumbing	L.S.		1		
	Signage						
		Entrance Sign	L.S.		1		
		Wayfinding Sign	L.S.		1		
		Site Traffic Signs and Posts	each		16		
		Outdoor Product Signs and Posts	each		14		
		Indoor Product Signs and Concrete Base	each		16		
	Subtotal Division 13 - Special Construction						\$
	21	FIRE SUPPRESSION					
21 31 26 Underground Fire Suppression Tanks							
		40,000L FRP Underground Fire Suppression Storage Tank, and Accessories	L.S.		1		
Subtotal Division 21 - Fire Suppression						\$	
26	ELECTRICAL						
	Electrical - General						
		Power Supply	L.S.		1		
		Scale House Electrical	L.S.		1		
		Recycling Building Electrical	L.S.		1		
		Site Lighting	L.S.		1		
		Buried Conduit and Cables	L.S.		1		
		Closed Circuit Monitoring System	L.S.		1		
		Intercom System	L.S.		1		
Subtotal Division 26 - Electrical						\$	

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Division	Section	Descriptions	Unit	Unit Price \$	Quantity	Total \$
31	EARTHWORKS					
	31 11 01 Clearing and Grubbing					
		Clearing and Grubbing - Site	sq m		13,880	
		Clearing - Ash Stockpiles	sq m		6,845	
	31 22 01 Site Grading					
		Strip Topsoil - Site	cu m		4,670	
	31 24 13 Roadway Excavation, Embankment and Compaction					
		Common Excavation	cu m		560	
		Import Fill	cu m		15,650	
	Subtotal Division 31 - Earthworks					\$
32	ROADS AND SITE IMPROVEMENTS					
	32 11 16.1 Granular Sub-Base					
		200mm Thick - 75 mm minus select granular sub-base	sq m		9,310	
	32 11 23 Granular Base					
		150 mm Thick - 19 mm minus crushed gravel	sq m		9,300	
	32 12 16 Hot Mix Asphalt Concrete Paving					
		100 mm Thick Asphalt	sq m		9,300	
		100 mm Thick Stamped Asphalt	sq m		540	
	32 17 23 Painted Pavement Marking					
		Pavement Marking	L.S.		1	
	32 31 13 Chain Link Fences and Gates					
		Chain Link Fences	lm		815	
		Chain Link Single Swing Gate	each		2	
		Chain Link Rolling Gates	each		1	
		Chain Link Double Gates	each		1	
	32 92 20 Hydraulic Seeding					
		Seeding	sq m		5,520	
		Landscaping				
		Site Landscaping	L.S.		1	
		Rain Garden	L.S.		1	
		Irrigation System	L.S.		1	
		Landscape Maintenance	L.S.		1	

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Division	Section	Descriptions	Unit	Unit Price \$	Quantity	Total \$	
		Miscellaneous Items					
		Bollards - fixed style at buildings	each		16		
		Bollards - removable style	each		3		
		Railing	lm		340		
Subtotal Division 32 - Roads and Site Improvements						\$	
33	UTILITIES						
	33 11 01 Waterworks						
		Watermains - 50 mm dia. HDPE DR11	lm		65		
		Watermains - 25 mm dia. Polyethylene	lm		130		
		Watermains - 19 mm dia. Polyethylene	lm		150		
		Tie-in to Existing Well	L.S.		1		
		Existing Well Upgrading	L.S.		1		
		Irrigation System Connection	L.S.		1		
		150mm dia. PVC Sleeve	lm		55		
		Backflow Prevention/Solenoid Valve	L.S.		1		
		Dry Hydrant Assembly	L.S.		1		
	33 30 01 Sanitary Sewers						
		Sanitary Sewer - 100 mm dia. PVC DR 35	lm		112		
		Sanitary Sewer Service Connection	each		2		
		2500 Imp Gal Concrete Sanitary Sewer Holding Tank	L.S.		1		
	33 40 01 Storm Sewers						
		Storm Sewer - 300 mm dia. PVC DR 35	lm		15		
		Storm Sewer - 250 mm dia. PVC DR 35	lm		200		
		Storm Sewer - 200 mm dia. PVC DR 35	lm		145		
		Storm Sewer Service connection	each		2		
	33 44 01 Manholes and Catchbasins						
		1050 mm dia. Manhole	each		9		
		Catch Basin incl. 200mm dia. lead	each		6		
		Double Catch Basin incl. 200mm dia. lead	each		2		
		Oil and Water Separator System	L.S.		1		
	33 47 00 Ponds and Reservoir						
		Detention Pond	L.S.		1		

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Division	Section	Descriptions	Unit	Unit Price \$	Quantity	Total \$
	33 49 00	Storm Drainage Structures				
		3.5m Wide Infiltration Ditch	each		249	
		3.5m Wide Infiltration Ditch	lm		250	
		5m Wide Infiltration Gallery	lm		55	
Subtotal Division 33 - Utilities						\$
41	EQUIPMENT					
	41 14 36	Weigh Scale				
		Weigh Scale Systm with Traffic Signals	LS		1	
Subtotal - Equipment						\$
	INDETERMINATE ITEMS					
	31 24 13	Roadway Excavation, Embankment and Compaction				
		Removal of Unsuitable Materials	cu m		50	
Subtotal - Indeterminate Work						\$
Subtotal of all Divisions						\$
TOTAL						\$
(Price Excludes GST)						

Meade Creek Recycling Centre Tender Addendum #2

Requests for Information Clarifications

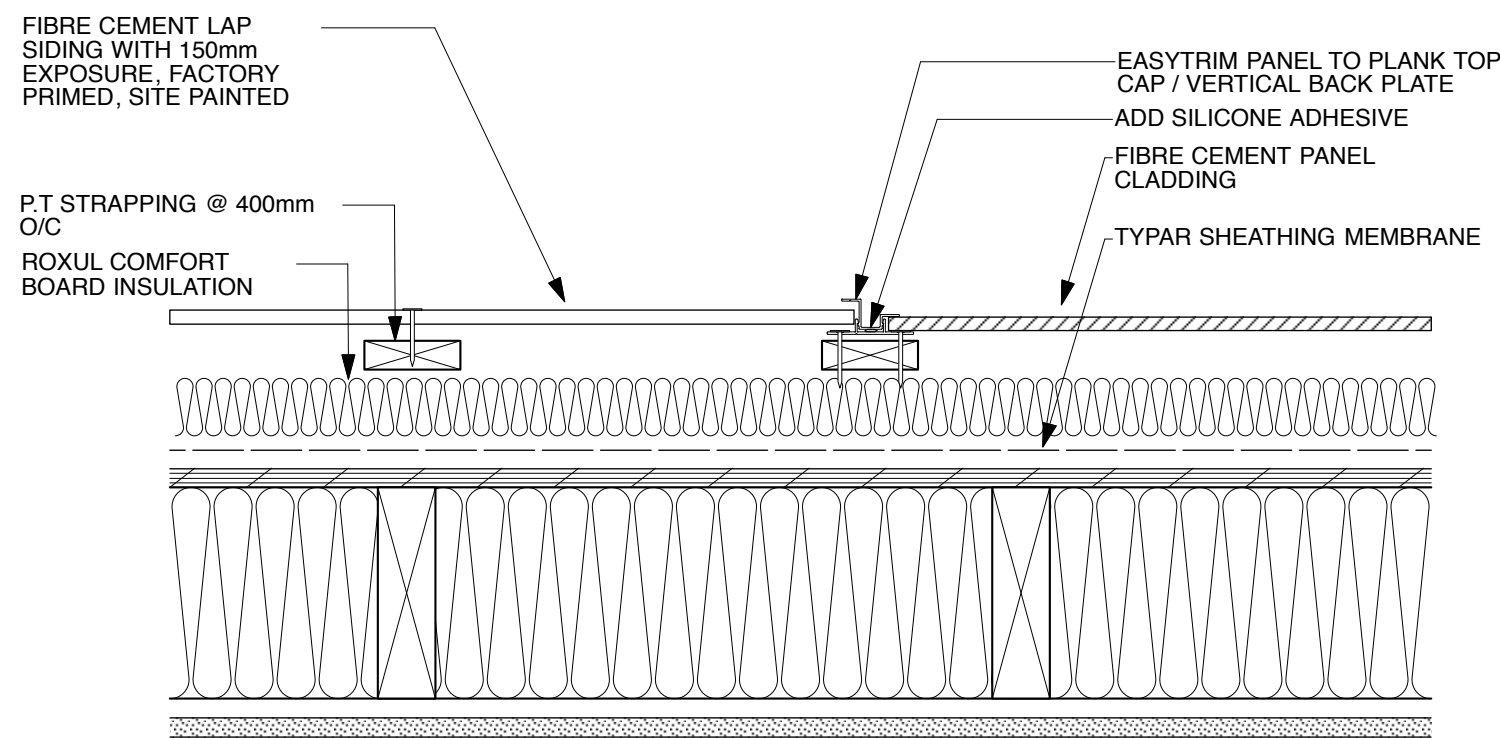
- Question 6 - Welded wire mesh guard on A4.10 to match or approved alternate to following performance specifications. Fence Panel Manufacturer: Vestil, Model: APG-M-35 (3' high x 5' long), including in-line posts Model: APG-P6-L, and corner posts model: APG-P6-C. Products available through Global Industrial Canada. Question regarding paint answered elsewhere in this addendum.
- Question 7.1 - 2 x 10 SPF with 2 coats exterior paint. Colour: Benjamin Moore HC-166 Kendall
- Question 7.2 - Shop applied prime coat with 2 finish paint coats field applied
- Question 7.3 - Refer to structural drawings for foundation anchoring requirements
- Question 7.4 - Lettering to be 6mm routed depth and painted. 2 coats exterior paint. Colour: Benjamin Moore Golden Nugget 2019-20
- Question 7.5 - Single sided
- Question 8.1 - Lettering to be 3mm aluminum dark bronze anodized finish
- Question 8.2 - Lettering to be pin mounted (standoff style)
- Question 8.3 - Curved steel bracket and steel bars sizing to be confirmed with structural engineer. It is suggested that a cash allowance be provided in the sealed bid separate to final tender price as the sizing of what the bracket and bars will support has yet to be determined. To aid in determining a cash allowance, size the members as follows: 13mm bent plate and 19mm Ø bars.
- Question 11 - Overhead door alternate provided is an approved alternate.

Drawing Clarifications

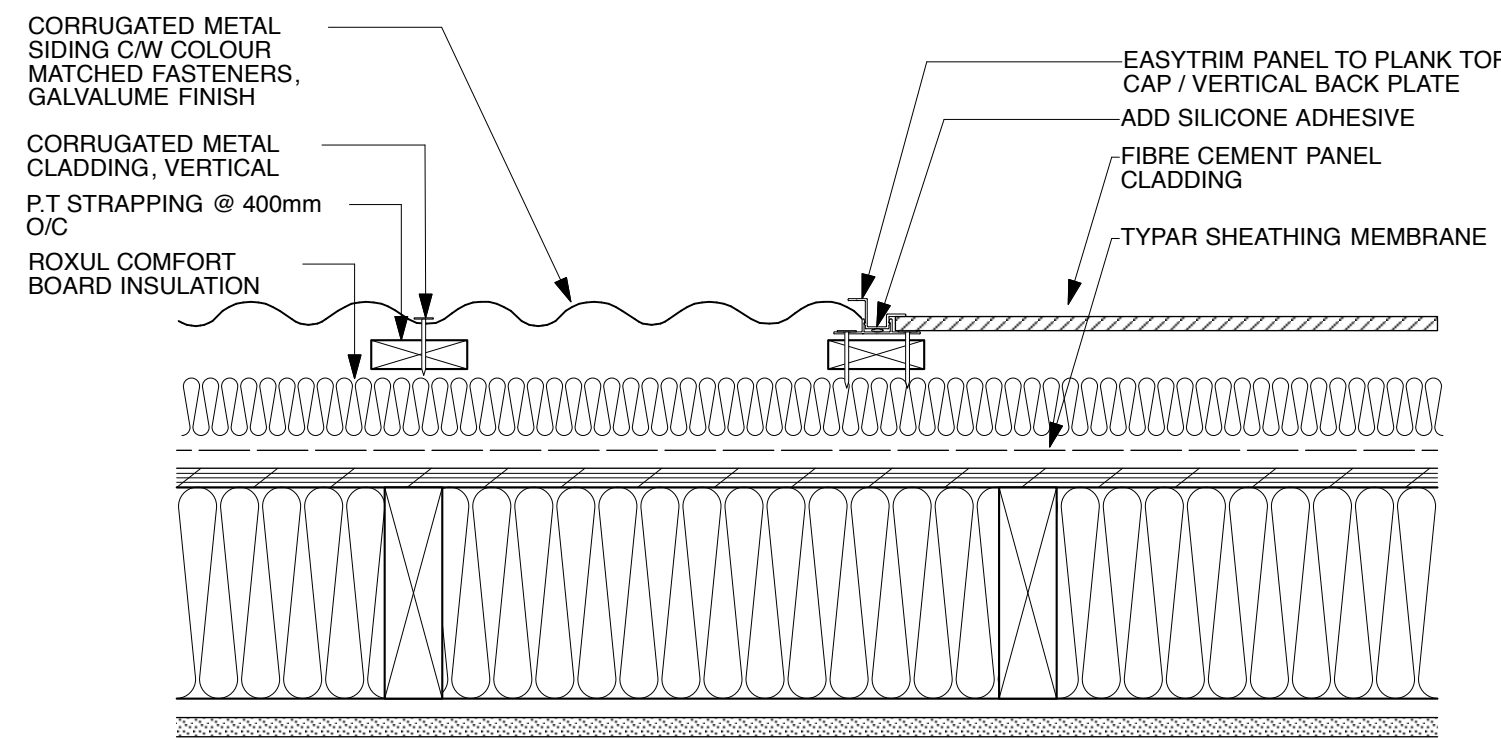
- A5.00R1 Has been provided with revisions
- A5.01R1 Has been provided with revisions
- A5.10 Has been provided.

Specification Clarifications

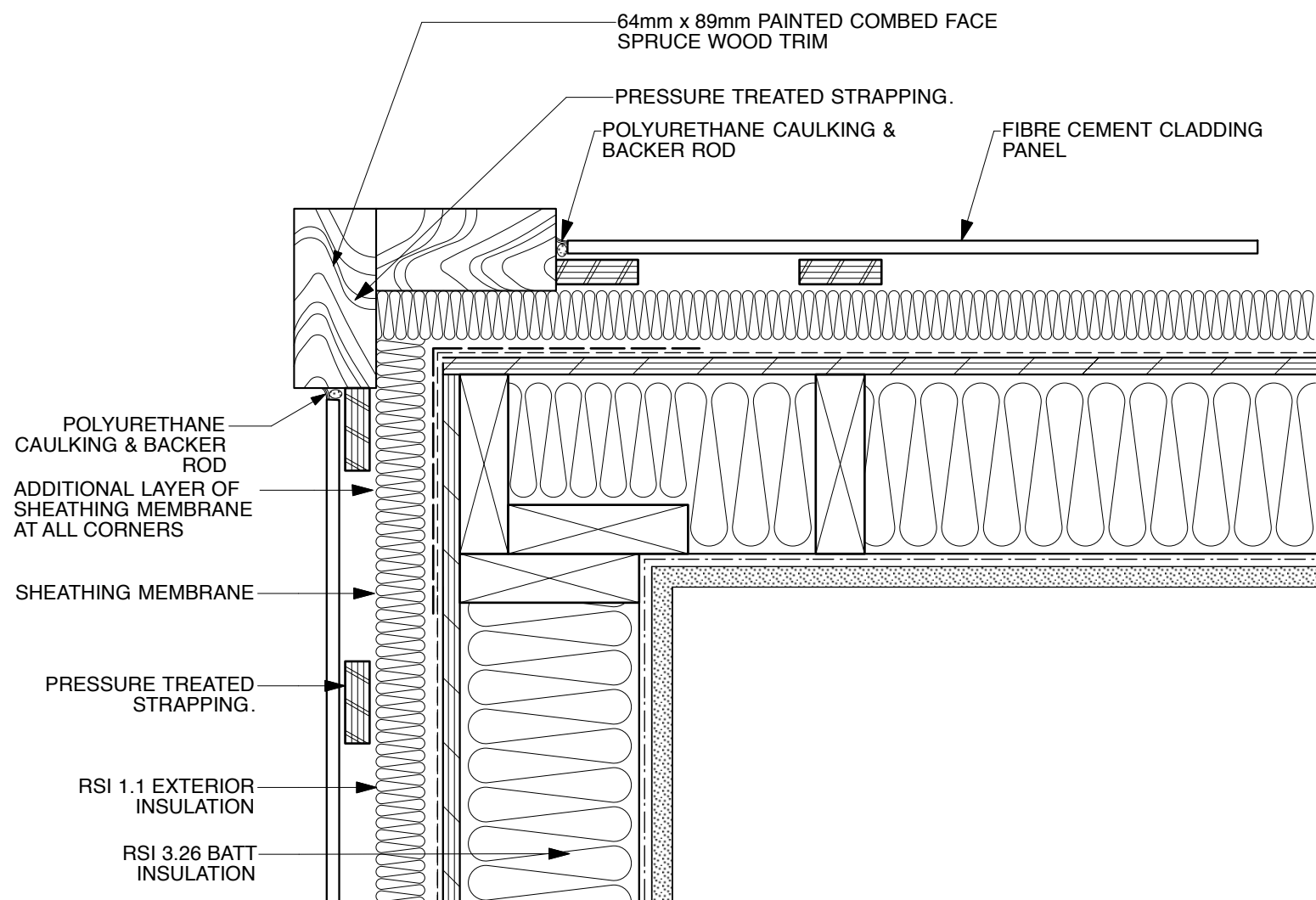
New section 09 91 00 Painting is attached



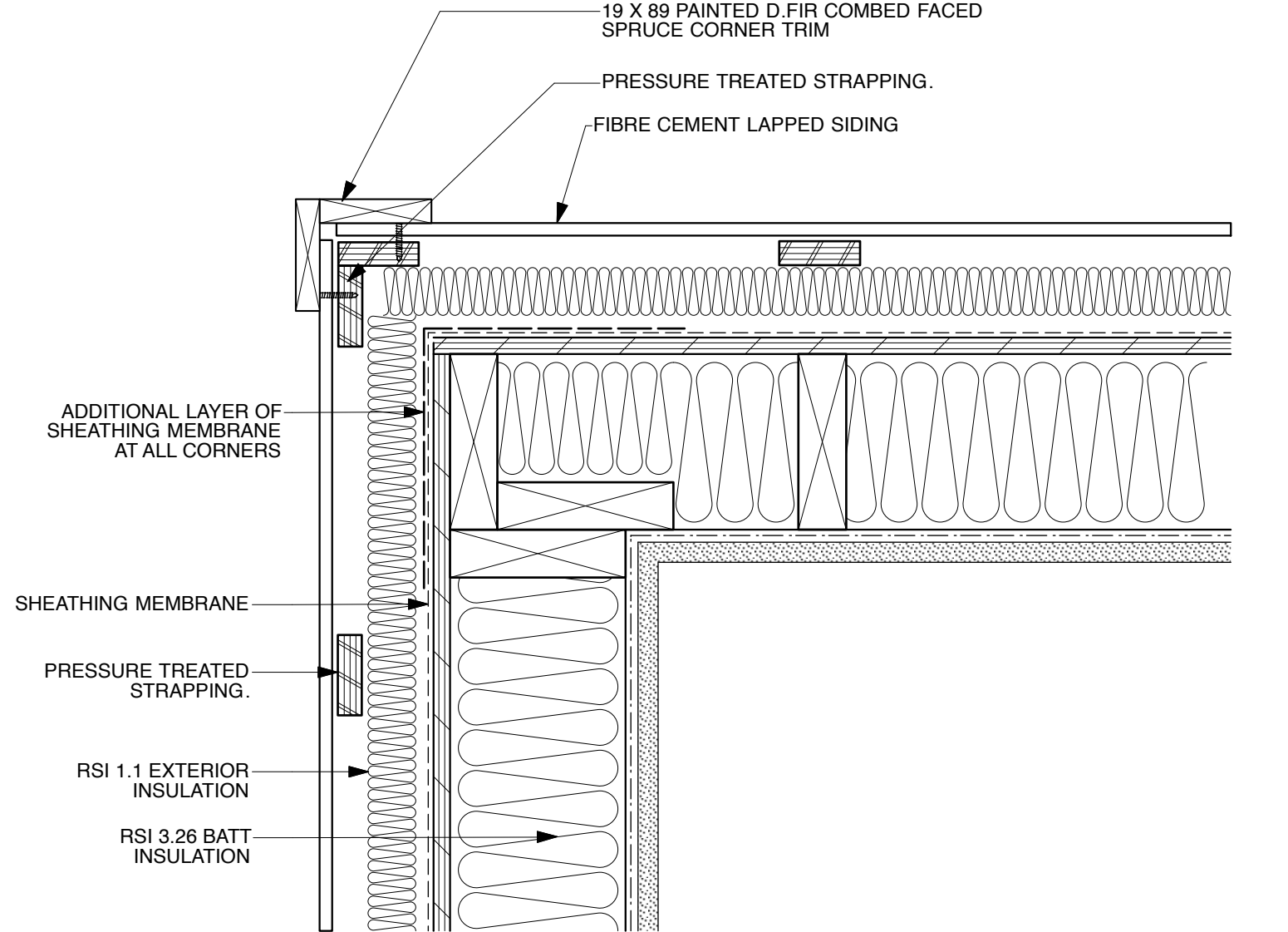
11 FIBRE CEMENT LAPPED SIDING TO FIBRE CEMENT PANEL SIDING TRANSITION
A5.00 SCALE: 1:5



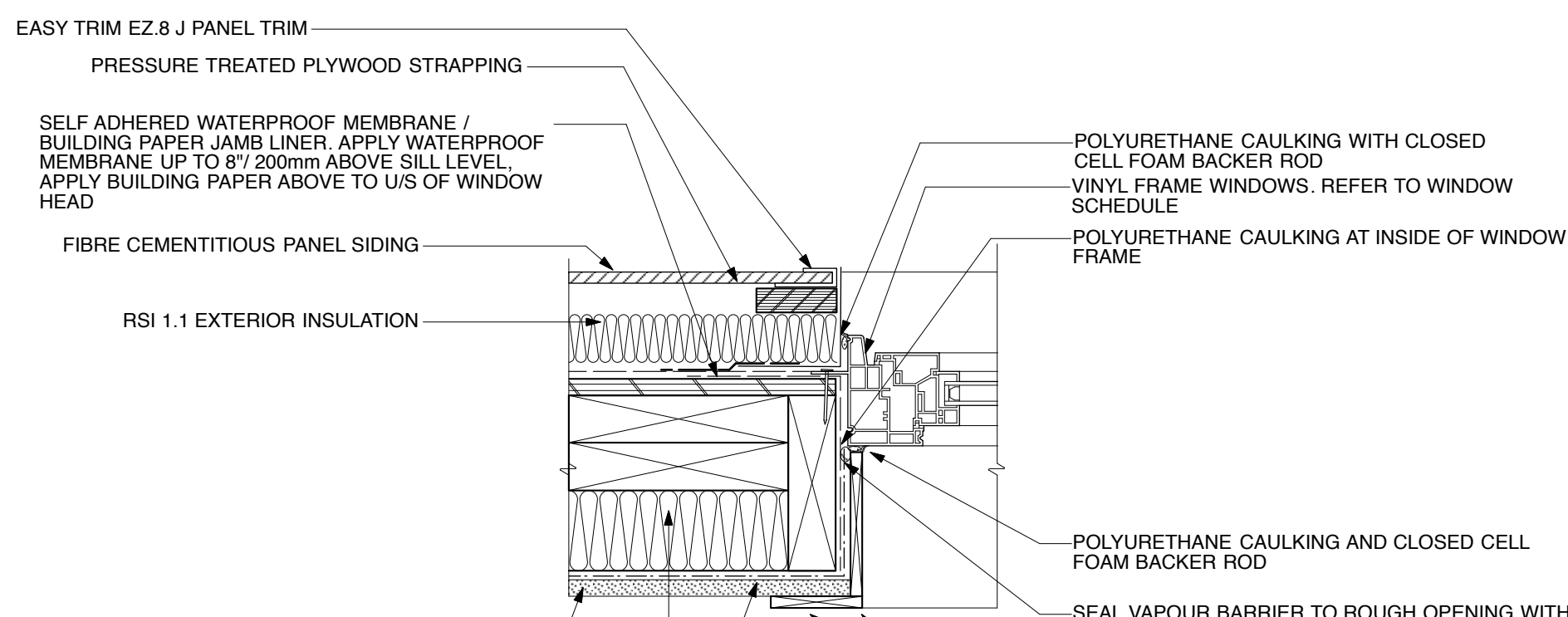
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A5.00 SCALE: 1:5



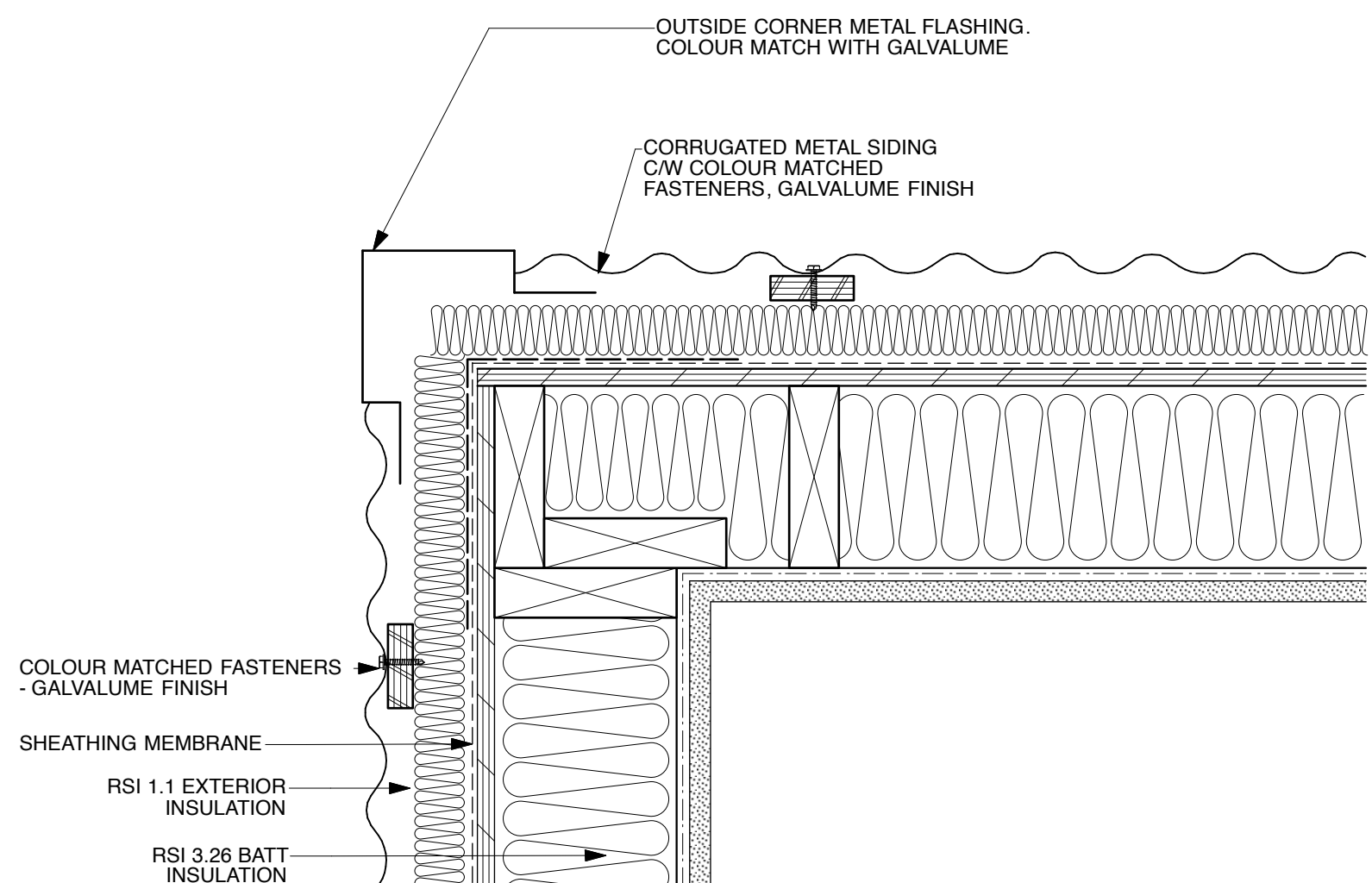
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A5.00 SCALE: 1:5



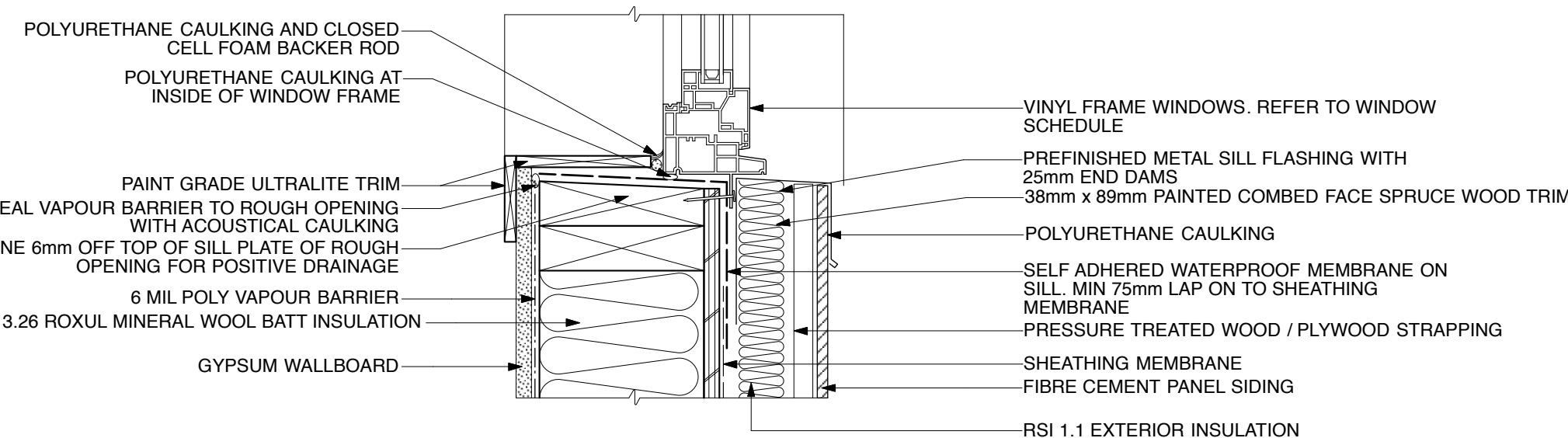
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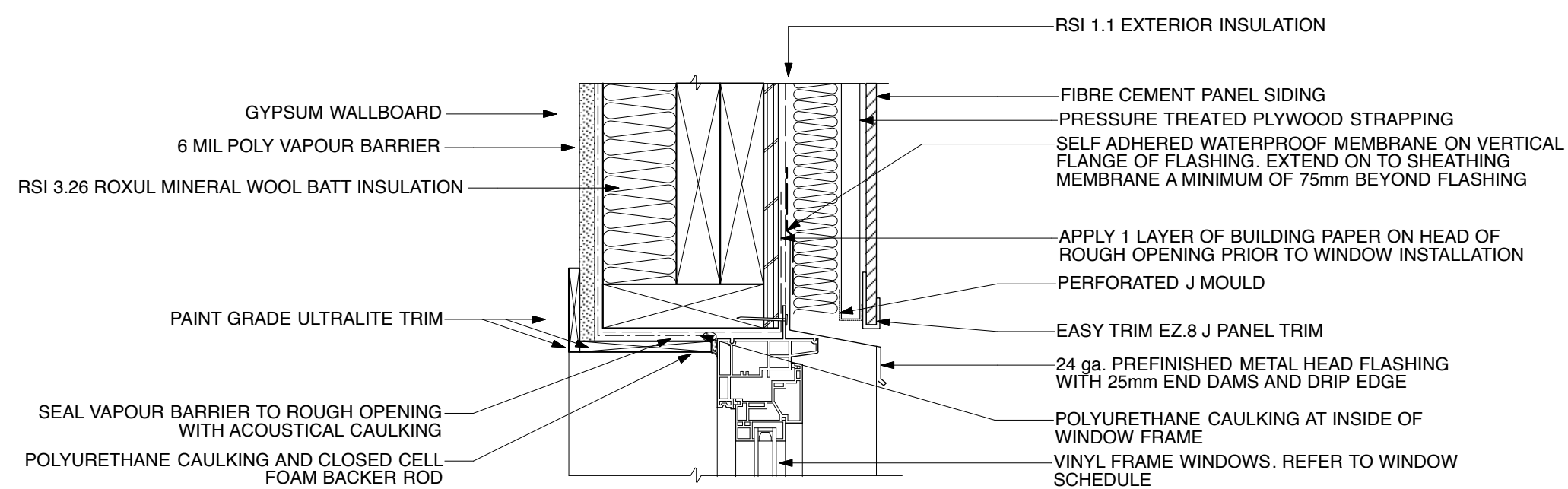
6 WINDOW @ HARDIE PANEL: JAMB PLAN DETAIL
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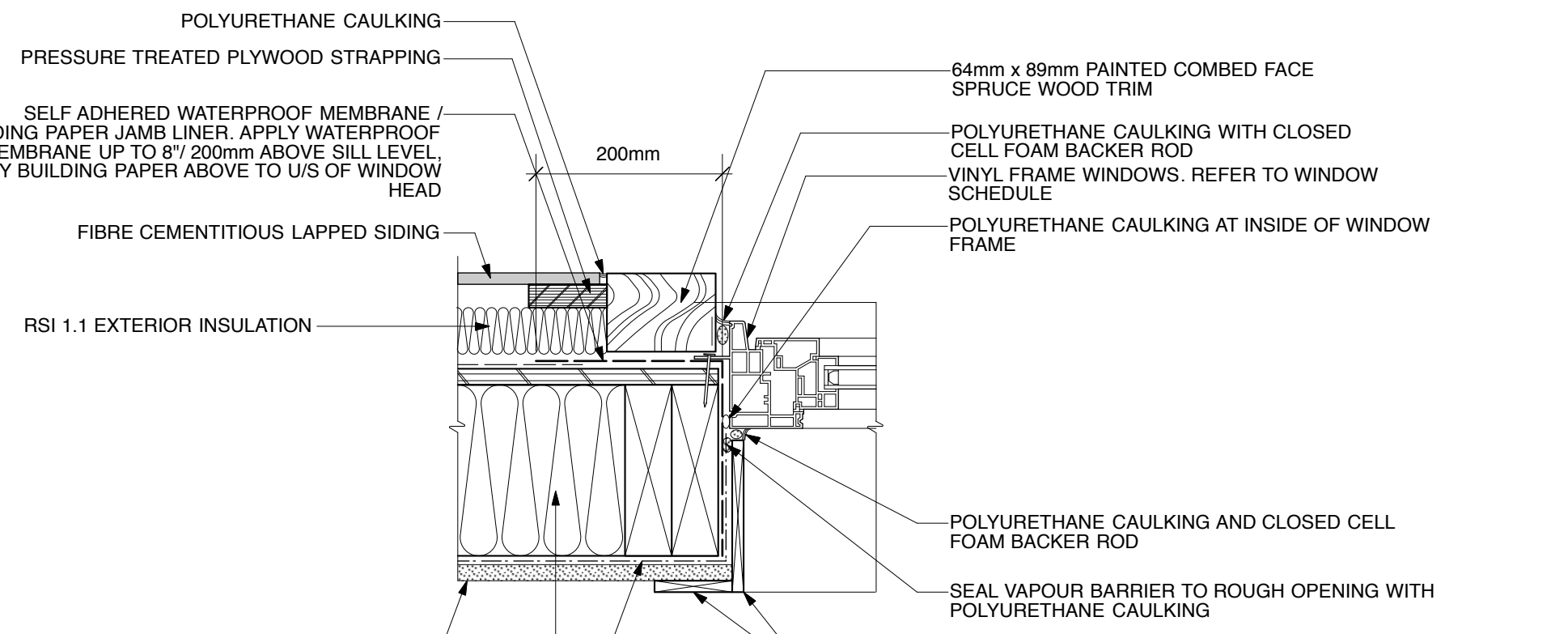
9 TYPICAL OUTSIDE CORNER - CORRUGATED METAL SIDING
A5.00 SCALE: 1:5



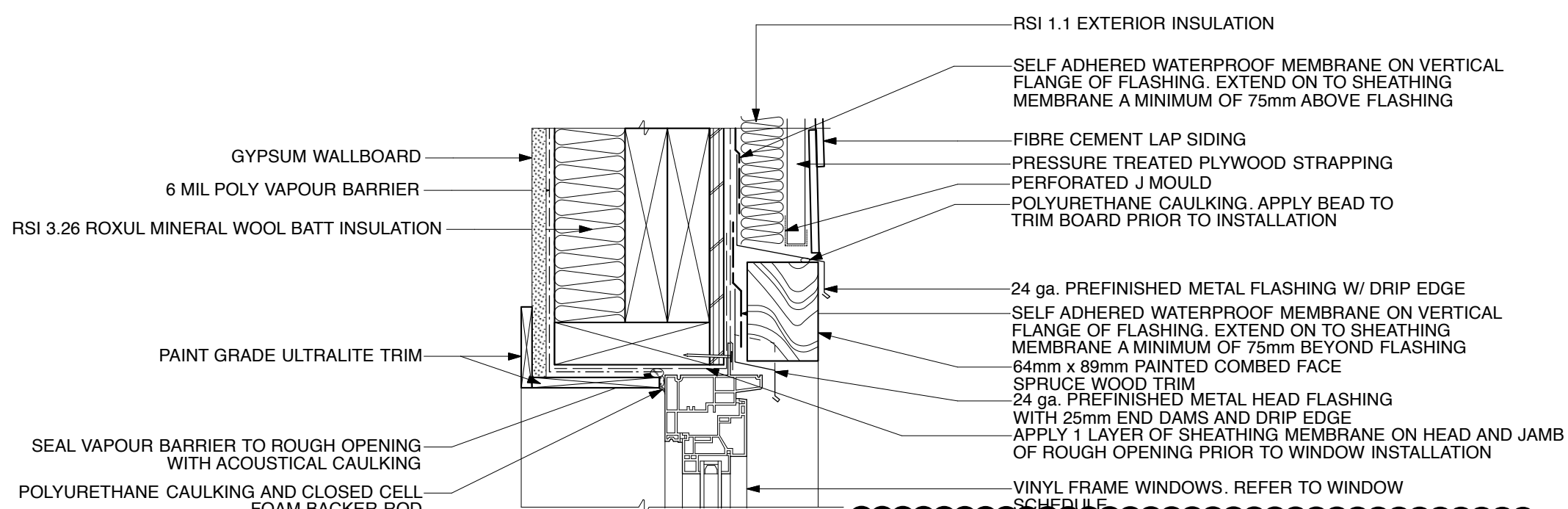
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A5.00 SCALE: 1:5



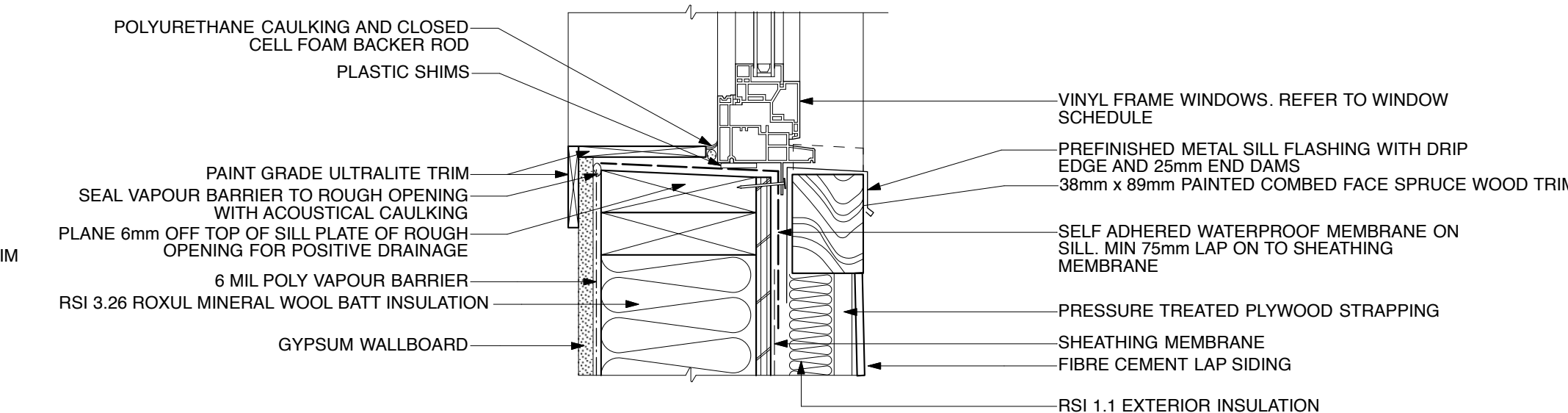
4 WINDOW @ HARDIE PANEL: HEAD DETAIL
A5.00 SCALE: 1:5



3 WINDOW JAMB @ FIBRE CEMENT LAPPED SIDING PLAN D
A5.00 SCALE: 1:5



1 WINDOW HEAD @ FIBRE CEMENT LAPPED SIDING SECTION DETAIL
A5.00 SCALE: 1:5



2 WINDOW SILL @ FIBRE CEMENT LAPPED SIDING SECTION DETAIL
A5.00 SCALE: 1:5



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28 APR 17 TENDER ADDEN. 2

17 MAR 17 ISSUED FOR TENDER

31 JAN 17 90% SUBMISSION

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Drawn KDS, AV

Scale AS NOTED

Date

APRIL 28, 2017

Project Name

CVRD

MEADE CREEK

RECYCLING FACILITY

COWICHAN VALLEY, BC

Drawing Title

DETAILS

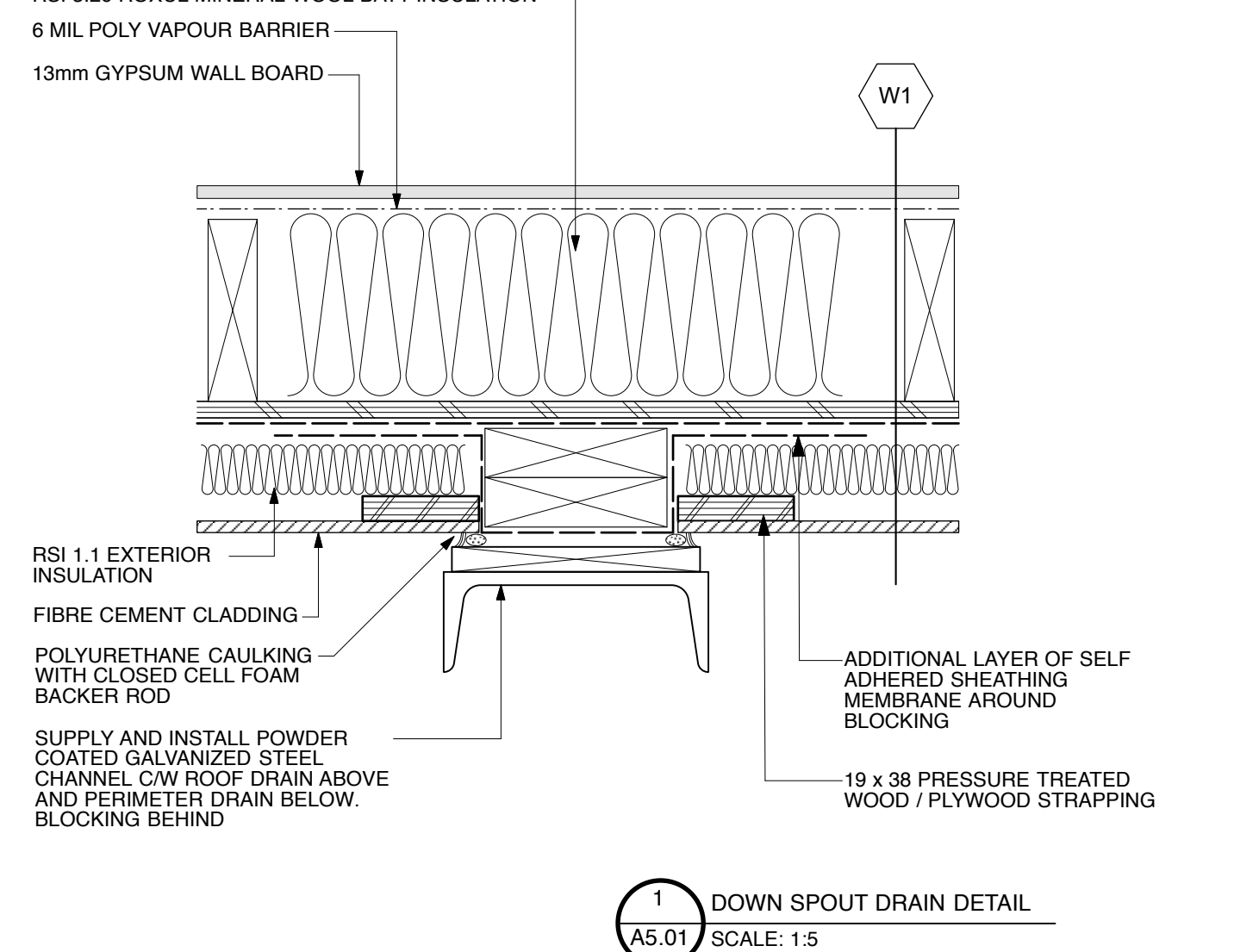
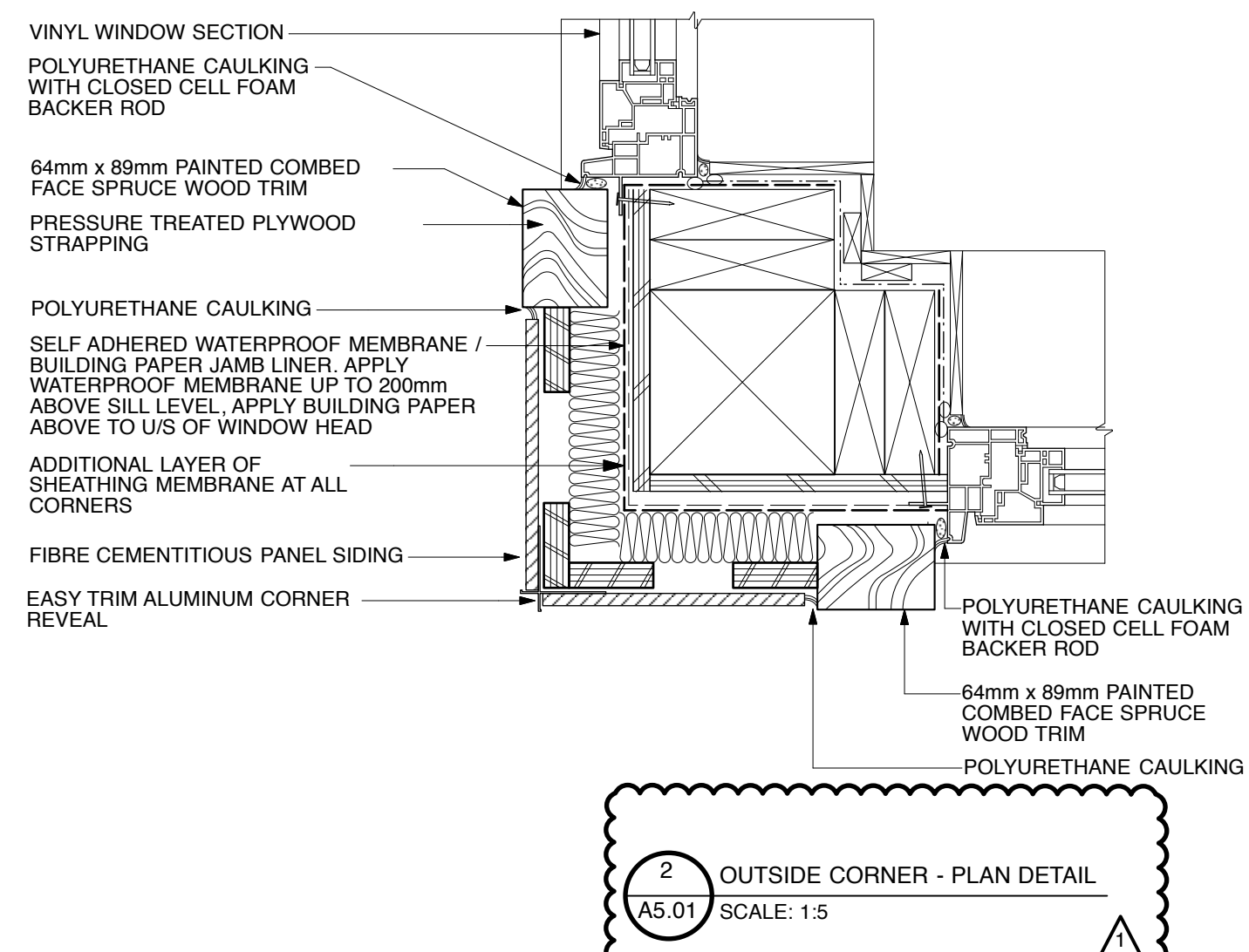
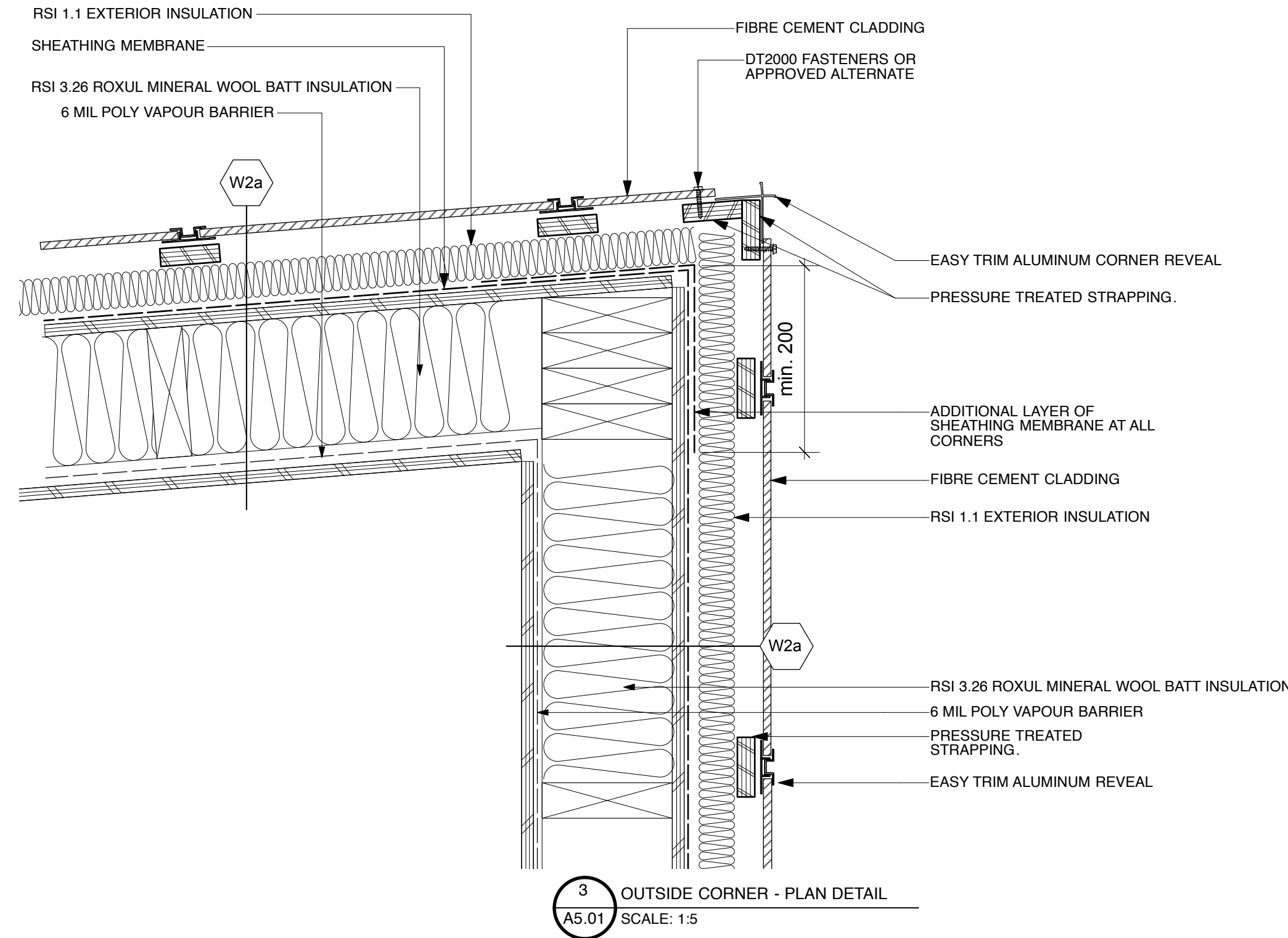
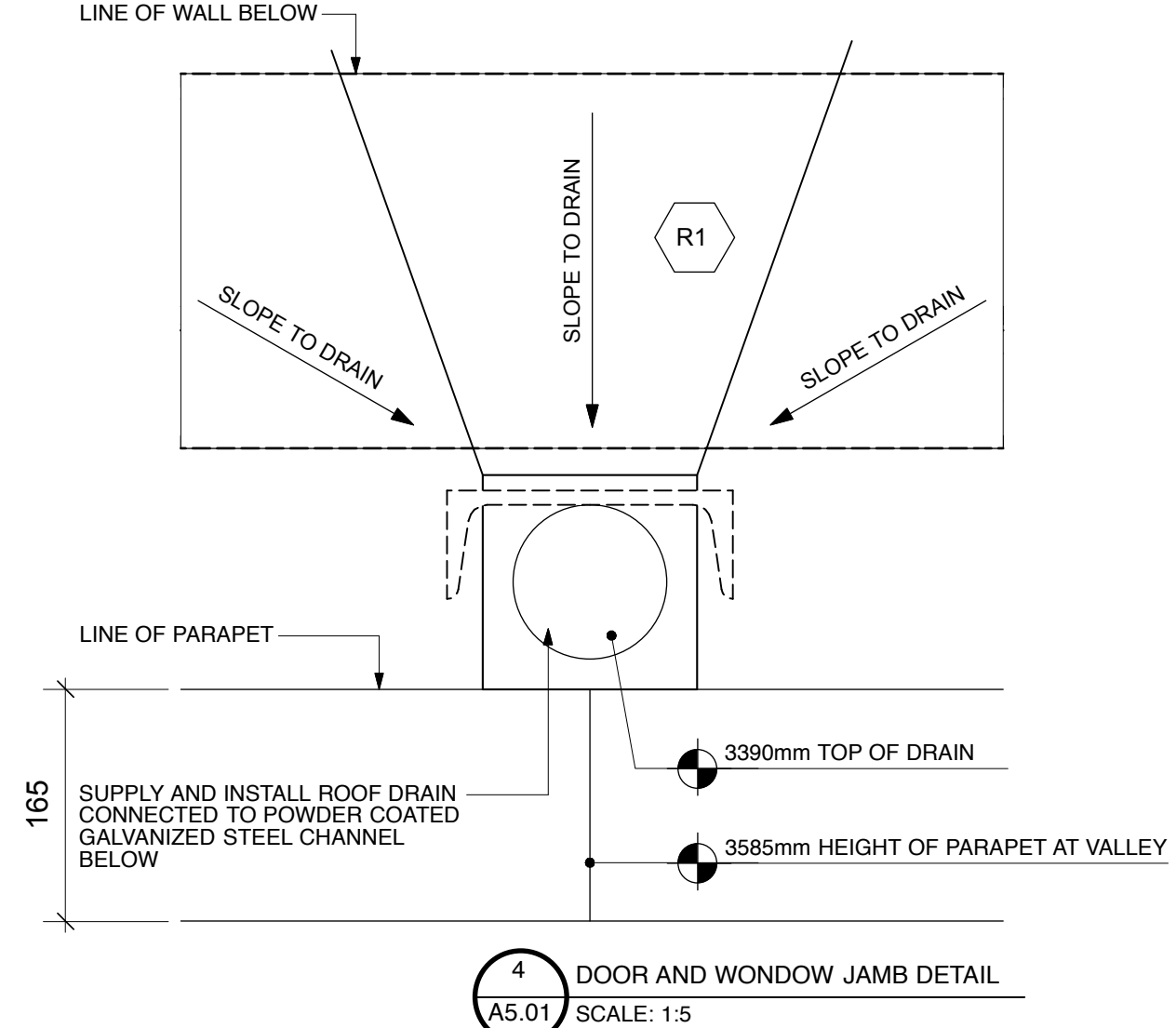
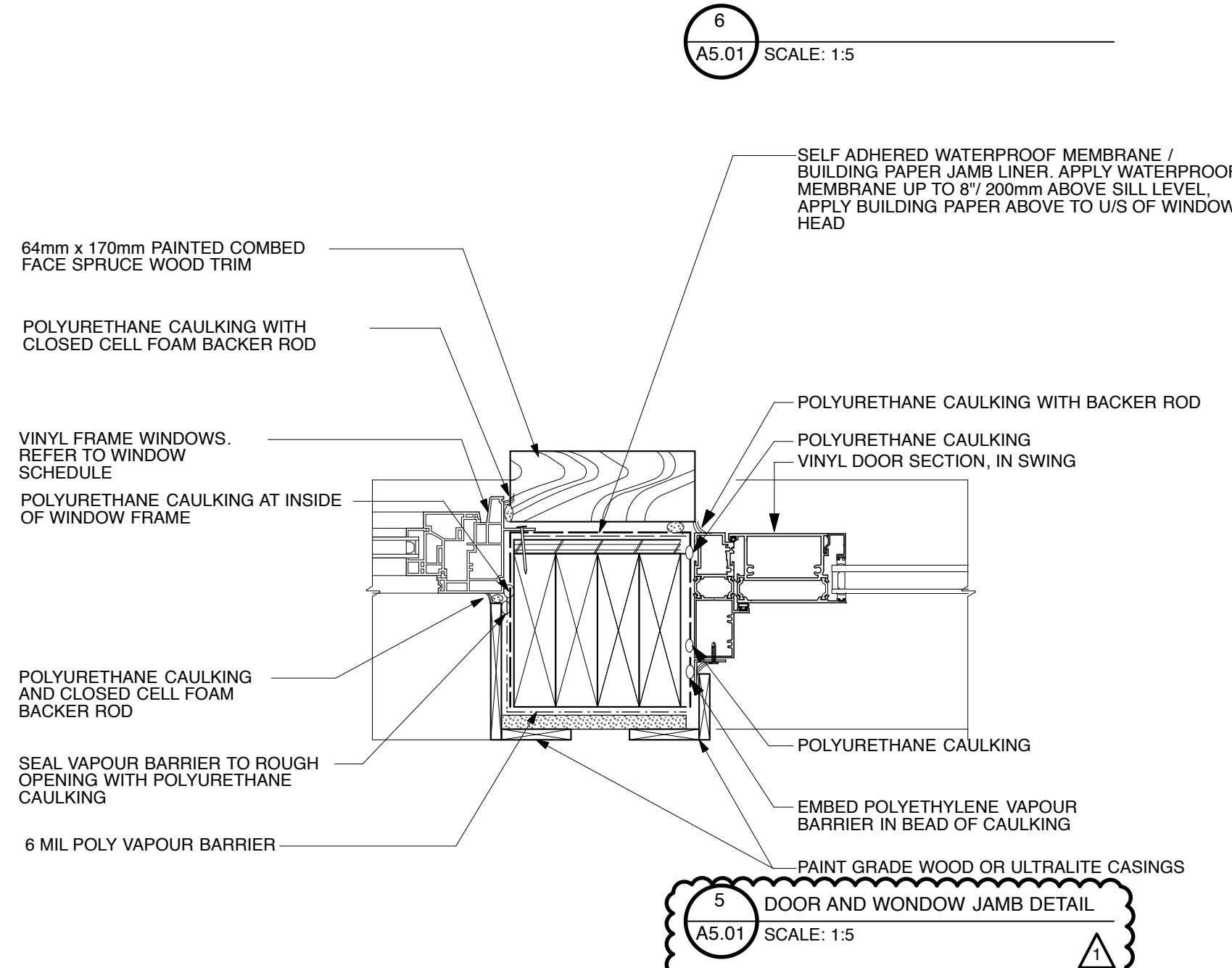
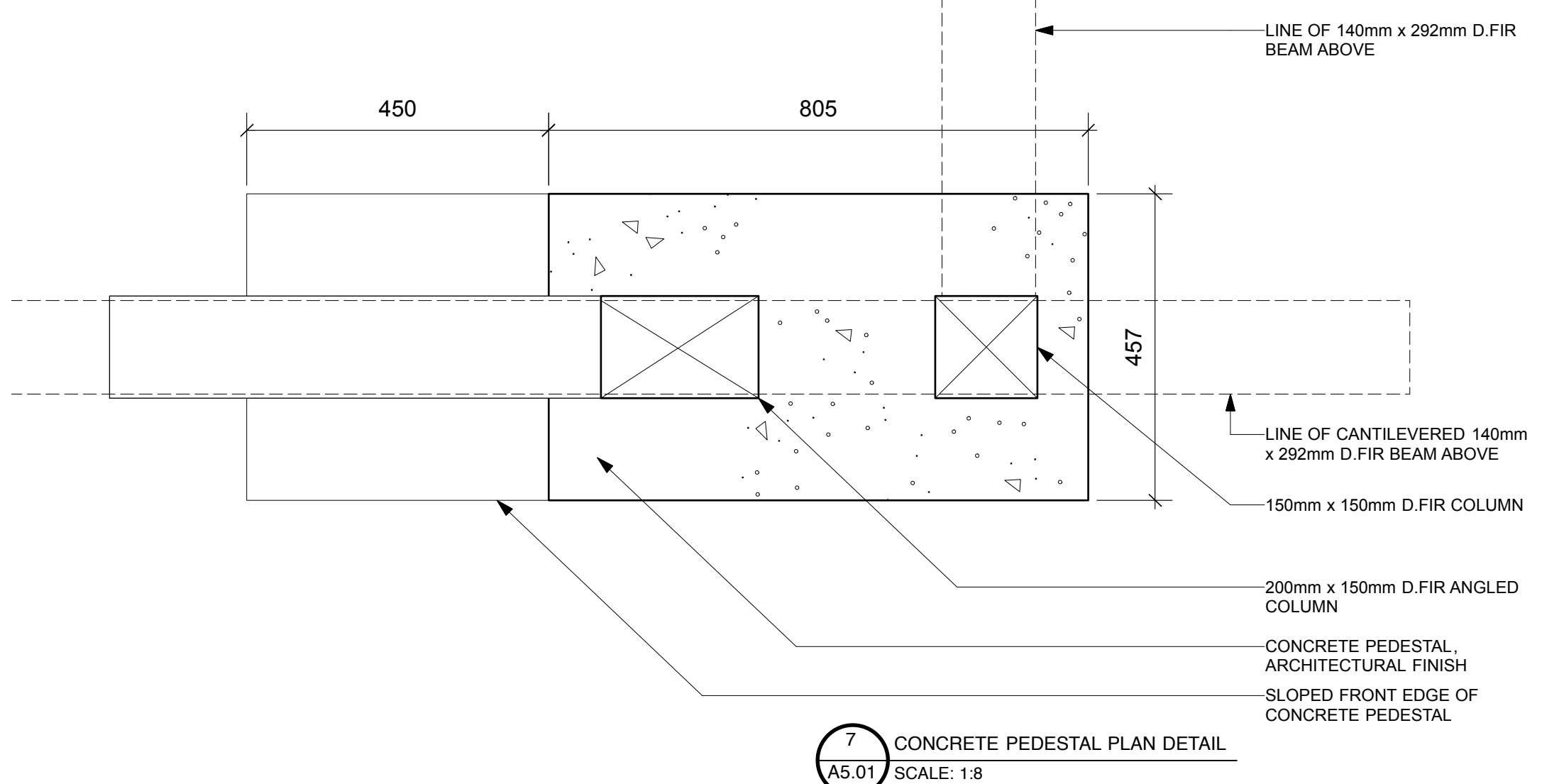
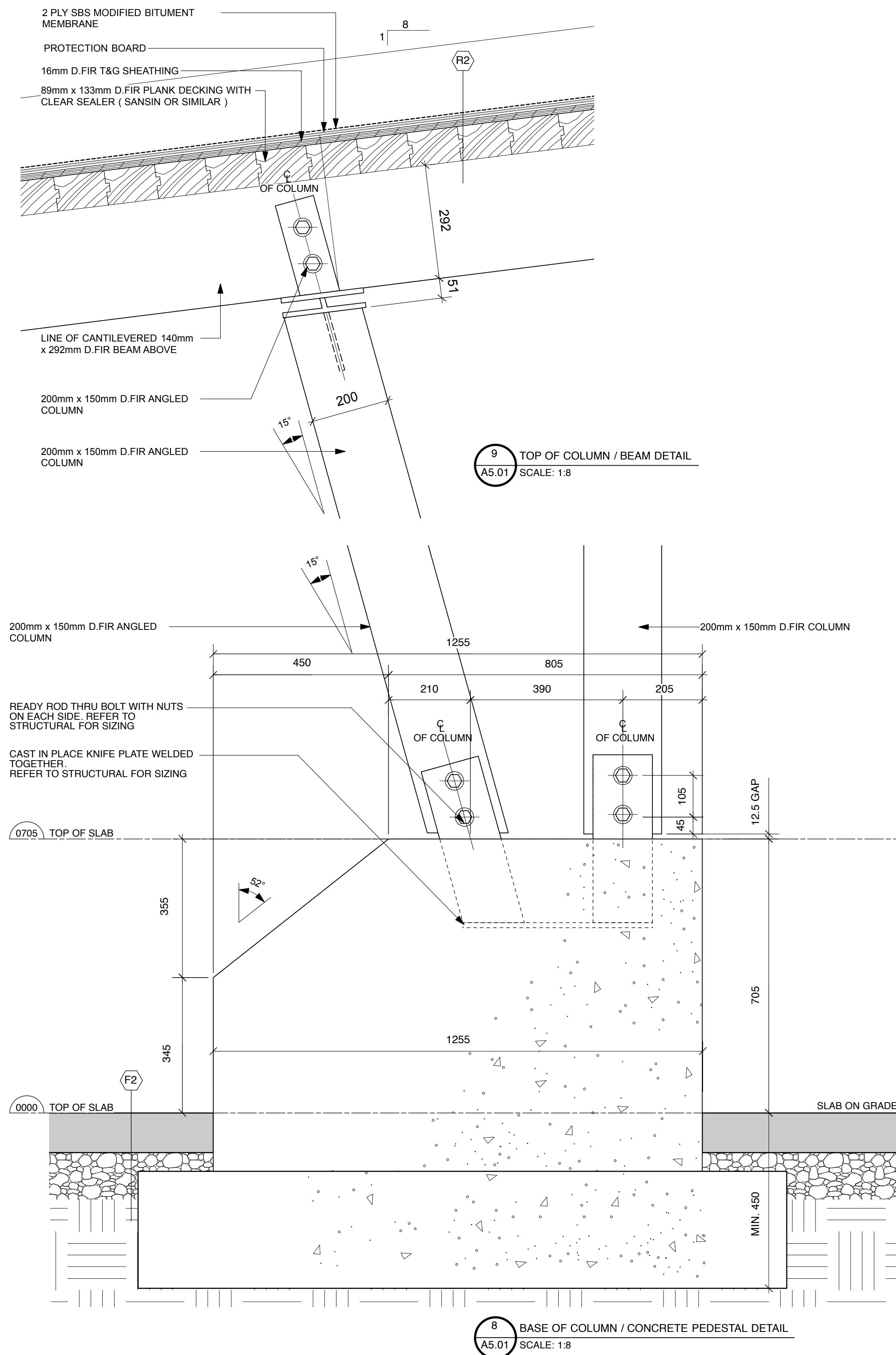
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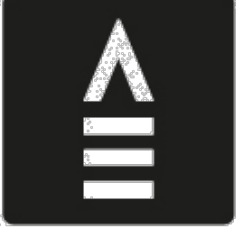
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Project No.

16100

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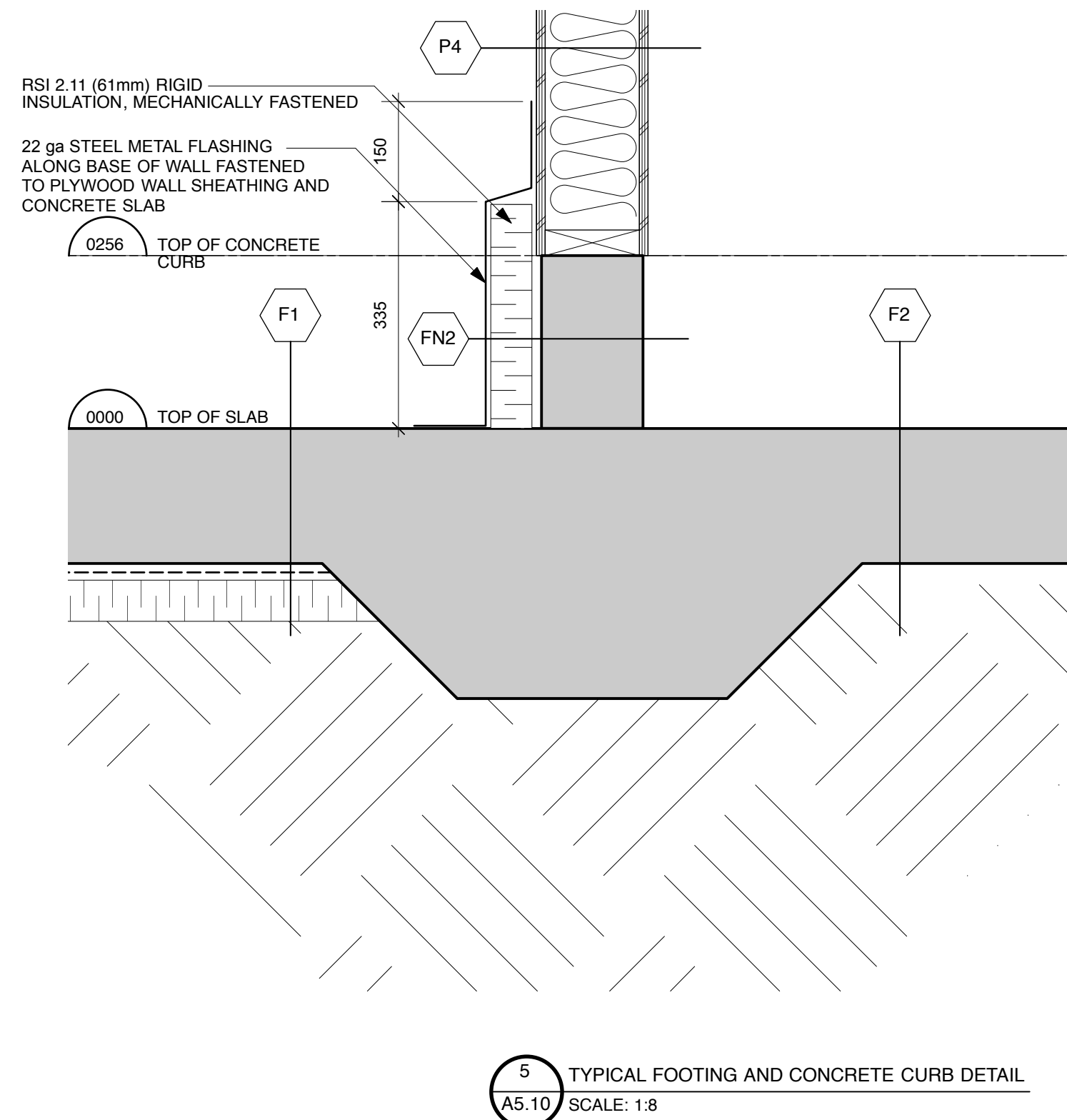
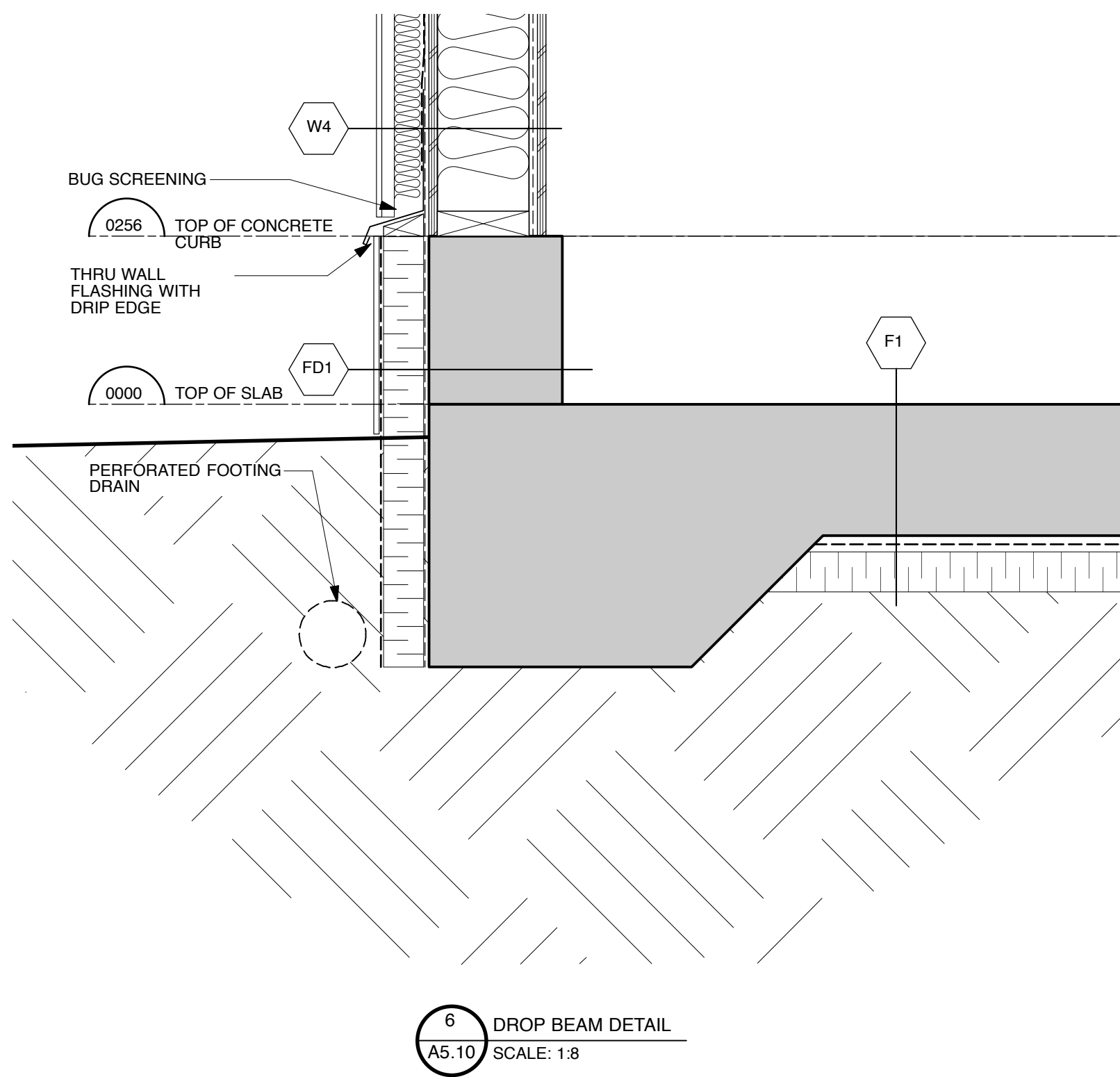
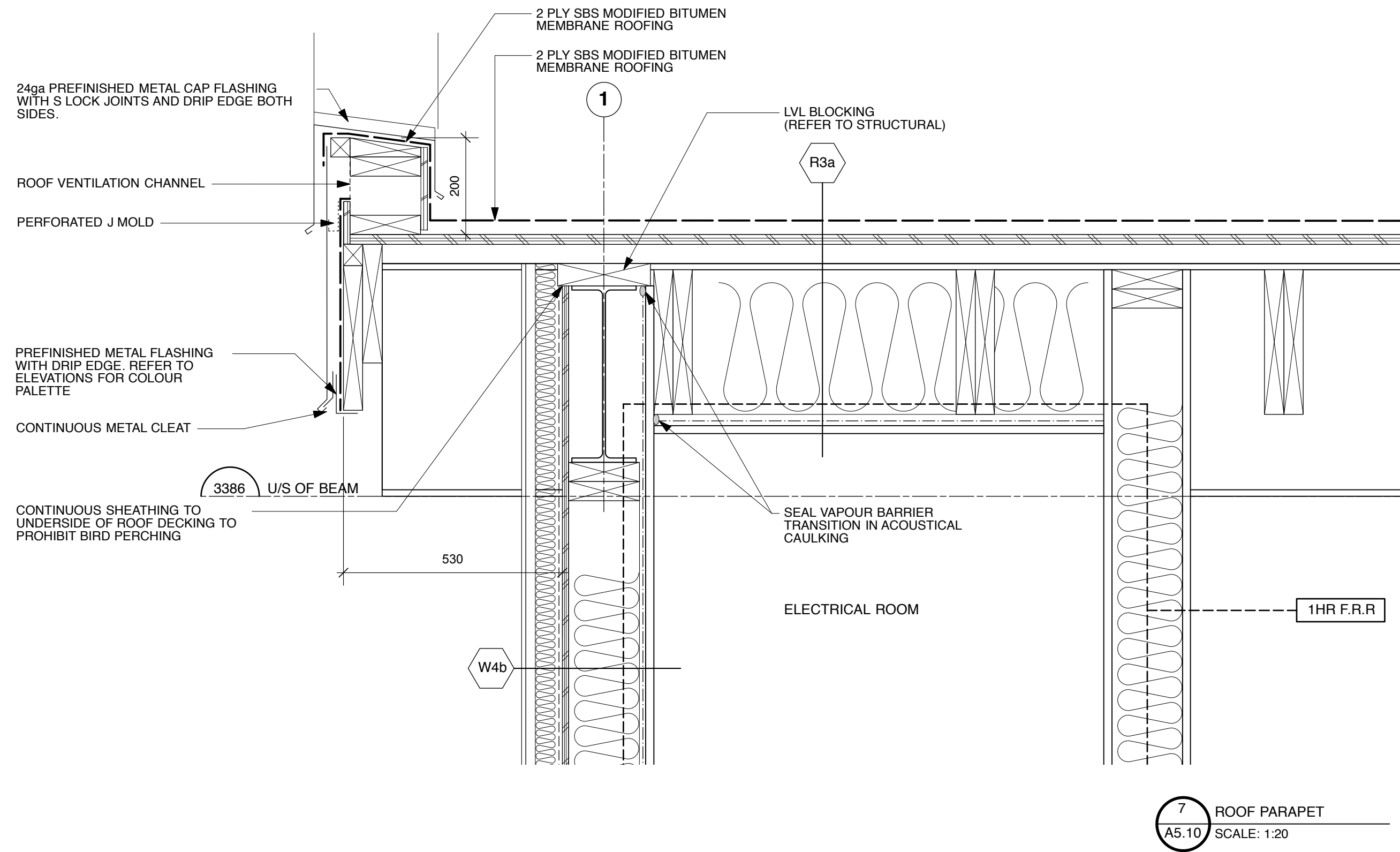
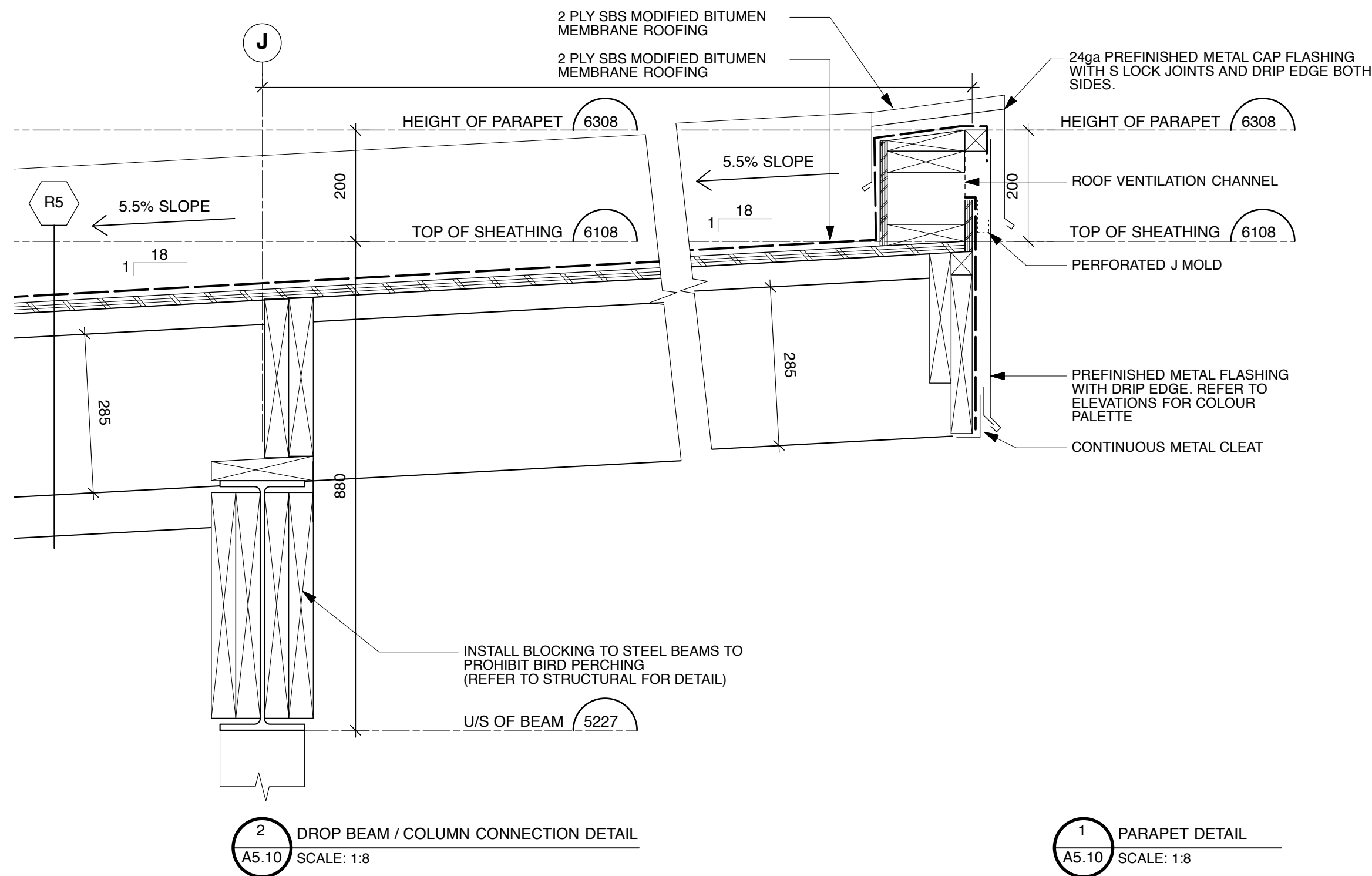
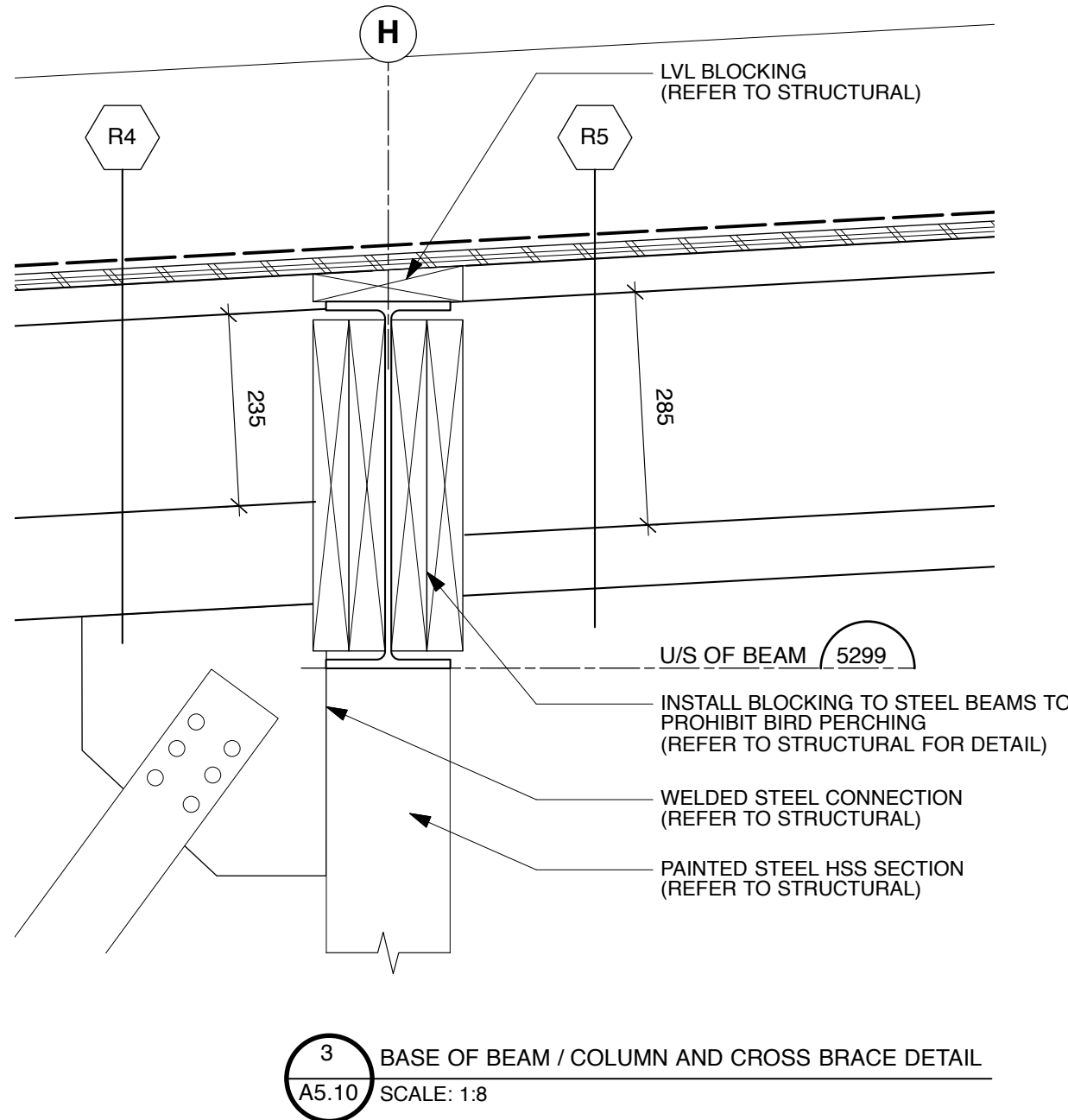
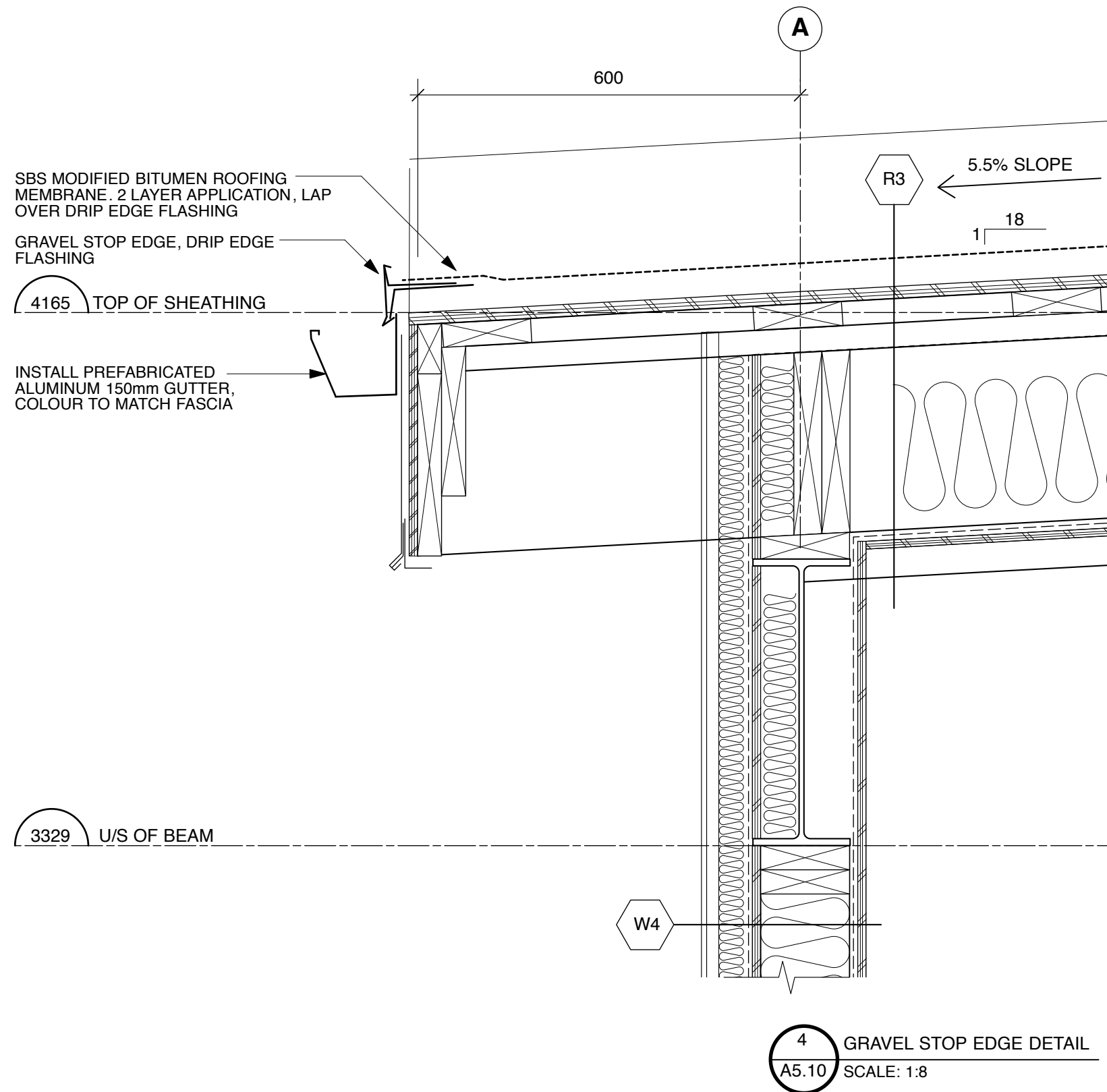


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28 APR 17	TENDER ADDEN. 2	
17 MAR 17	ISSUED FOR TENDER	
31 JAN 17	90% SUBMISSION	
Rev	Date	Description
Checked		KDS
Drawn		KDS, AV
Scale		AS NOTED
Date	APRIL 28, 2017	
Project Name		
CVRD MEADE CREEK RECYCLING FACILITY COWICHAN VALLEY, BC		
Drawing Title		
SCALE HOUSE DETAILS		
Drawing No.		
A5.01R1		
Project No.		
16100		
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Project Name

**CVRD
MEADE CREEK
RECYCLING FACILITY**
COWICHAN VALLEY, BC

Drawing Title

**RECYCLING
BUILDING
DETAILS**

Drawing No. **A5.10**

Project No. **16100**

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Part 1 General

1.1 SUMMARY

.1 Work of this section includes provision of site applied finishes to interior and exterior surfaces, including site painting of shop primed surfaces.

1.2 RELATED REQUIREMENTS

- .1 Section 03 31 00 – Structural Cast in Place Concrete
- .2 Section 05 50 00 – Metal Fabrications
- .3 Section 06 10 00 – Rough Carpentry
- .4 Section 06 20 00 – Finish Carpentry
- .5 Section 07 46 46 - Fibre-Cement Siding
- .6 Section 08 11 14 - Metal Doors and Frames
- .7 Section 08 14 16 – Wood Doors and Frames
- .8 Section 09 29 00 – Gypsum Board Assemblies
- .9 Division 21 - Fire Suppression
- .10 Division 22 – Plumbing
- .11 Division 23 - Heating, Ventilation and Air Conditioning
- .12 Division 26 – Electrical
- .13 Other technical sections that contain field painting requirements.

1.3 REFERENCES

- .1 American Society of Testing and Materials (ASTM)
 - .1 ASTM D16-14, Standard Terminology for Paint, Related Coatings, Materials, and Applications.
- .2 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .3 Master Painters Institute (MPI)
 - .1 MPI Architectural Painting Specifications Manual.
 - .2 MPI Green Performance Standard GPS-1-08 and GPS-2-08
 - .3 2016 Updates to the 2007 MPI Manual.
- .4 Society for Protective Coatings (SSPC)
 - .1 SSPC Painting Manual, 2011 Edition.

1.4 ADMINISTRATIVE REQUIREMENTS

- .1 Pre-Installation Meeting:
 - .1 Convene pre-installation meeting one week prior to beginning work of this Section and on-site installations in accordance with Construction Progress Schedule.

1.5 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 11 00 – General Requirements.
- .2 Product data:
 - .1 Submit product data and instructions for each paint and coating product to be used.
 - .2 Submit product data for the use and application of paint thinner.
- .3 Samples:
 - .1 Submit full range colour sample chips to indicate where colour availability is restricted.
 - .2 Submit paint draw-down samples of each paint colour in each sheen for verification and acceptance.
 - .3 Submit stain and clear finish on 300 mm x 300 mm wood sample; same species as specified, for verification and acceptance.
 - .4 Retain reviewed samples on-site to demonstrate acceptable standard of quality for appropriate on-site surface.
- .4 Manufacturer's Instructions:
 - .1 Submit manufacturer's application instructions.
- .5 Closeout Submittals: submit maintenance data for incorporation into Operation and Maintenance manual, include following:
 - .1 Product name, type and use.
 - .2 Manufacturer's product number.
 - .3 Colour numbers.
 - .4 MPI Environmentally Friendly classification system rating.
- .6 Maintenance Materials Submittals:
 - .1 Deliver to extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels.
 - .2 Quantity: provide one - one litre can of each type and colour of finish coating. Identify colour and paint type in relation to established colour schedule and finish system.
 - .3 Delivery, storage and protection: comply with Construction Manager's requirements for delivery and storage of extra materials.

1.6 QUALITY ASSURANCE

- .1 Contractor: minimum of five (5) years proven satisfactory experience. Provide list of last three comparable jobs including, job name and location, specifying authority, and project manager.
- .2 Journeymen: qualified journeymen who have "Tradesman Qualification Certificate of Proficiency" engaged in painting work.
- .3 Apprentices: working under direct supervision of qualified trades person in accordance with trade regulations.

1.7 MOCK-UPS

- .1 Construct mock-ups in accordance instructions from Construction Manager.
 - .1 Provide 3 m x 3 m mock-up. Prepare and paint designated surface, area, room or item (in each colour scheme) to specified requirements, with specified paint or coating showing selected colours, gloss/sheen, textures.
- .2 Mock-up will be used to judge workmanship, verify colour and sheen, substrate preparation, operation of equipment and material application and workmanship to MPI Architectural Painting Specification Manual standards.
- .3 Locate where directed.

- .4 Allow 24 hours for review of mock-up before proceeding with work.
- .5 When accepted, mock-up will demonstrate minimum standard of quality required for this work. Approved mock-up may remain as part of finished work.

1.8 DELIVERY, STORAGE, AND HANDLING

- .1 Packing, Shipping, Handling and Unloading:

1.9 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for recycling and disposal in accordance with Waste Management Plan specified in Section 01 11 00 – General Requirements.
- .2 Handle and dispose of hazardous materials in accordance with CEPA, TDGA, Regional and Municipal, regulations.
- .3 Ensure emptied containers are sealed and stored safely.
- .4 Unused paint materials must be disposed of at official provincially licensed hazardous material collections site.
- .5 Paint, stain and wood preservative finishes and related materials (thinners, and solvents) are regarded as hazardous products and are subject to regulations for disposal. Information on these controls can be obtained from Provincial Ministries of Environment and Regional levels of Government.
- .6 Place materials defined as hazardous or toxic waste, including used sealant and adhesive tubes and containers, in containers or areas designated for hazardous waste.
- .7 To reduce the amount of contaminants entering waterways, sanitary/storm drain systems or into ground follow these procedures:
 - .1 Retain cleaning water for water-based materials to allow sediments to be filtered out.
 - .2 Retain cleaners, thinners, solvents and excess paint and place in designated containers and ensure proper disposal.
 - .3 Return solvent and oil soaked rags used during painting operations for contaminant recovery, proper disposal, or appropriate cleaning and laundering.
 - .4 Dispose of contaminants in approved legal manner in accordance with hazardous waste regulations.
 - .5 Empty paint cans are to be dry prior to disposal or recycling (where available).
- .8 Where paint recycling is available, collect waste paint by type and provide for delivery to recycling or collection facility.
- .9 Set aside and protect surplus and uncontaminated finish materials. Deliver to or arrange collection by individuals or organizations for verifiable re-use or remanufacturing.

1.10 SITE CONDITIONS

- .1 Heating, Ventilation and Lighting:
 - .1 Ventilate enclosed spaces.
 - .2 Provide heating facilities to maintain ambient air and substrate temperatures above 10 degrees C for 24 hours before, during and after paint application until paint has cured sufficiently.
 - .3 Provide continuous ventilation for seven days after completion of application of paint.

- .4 Coordinate use of existing ventilation system with Consultant and ensure its operation during and after application of paint as required.
- .5 Provide temporary ventilating and heating equipment where permanent facilities are not available or supplemental ventilating and heating equipment if ventilation and heating from existing system is inadequate to meet minimum requirements.
- .6 Provide minimum lighting level of 323 Lux on surfaces to be painted.
- .2 Temperature, Humidity and Substrate Moisture Content Levels:
 - .1 Unless pre-approved written approval by Consultant and product manufacturer, perform no painting when:
 - .1 Ambient air and substrate temperatures are below 10 degrees C.
 - .2 Substrate temperature is above 32 degrees C unless paint is specifically formulated for application at high temperatures.
 - .3 Substrate and ambient air temperatures are not expected to fall within MPI or paint manufacturer's prescribed limits.
 - .4 Relative humidity is above 85% or when the dew point is less than 5° F (3° C) variance between the air / surface temperature. Use sling psychrometer to establish the relative humidity before beginning paint work.
 - .5 Rain or snow are forecast to occur before paint has thoroughly cured or when it is foggy, misty, raining or snowing at site.
 - .6 Ensure that conditions are within specified limits during drying or curing process, until newly applied coating can itself withstand 'normal' adverse environmental factors.
 - .2 Perform painting work when maximum moisture content of the substrate is below:
 - .1 12% for concrete and masonry (clay and concrete brick/block).
 - .2 15% for wood.
 - .3 12% for plaster and gypsum board.
 - .4 Allow new concrete and masonry to cure minimum of 28 days.
 - .3 Test for moisture using calibrated electronic Moisture Meter. Test concrete floors for moisture using "cover patch test".
 - .4 Test concrete, masonry and plaster surfaces for alkalinity as required.
- .3 Surface and Environmental Conditions:
 - .1 Apply paint finish in areas where dust is no longer being generated by related construction operations or when wind or ventilation conditions are such that airborne particles will not affect quality of finished surface.
 - .2 Apply paint to adequately prepared surfaces and to surfaces within moisture limits.
 - .3 Apply paint when previous coat of paint is dry or adequately cured.
 - .4 Additional interior application requirements:
 - .1 Apply paint finishes when temperature at location of installation can be satisfactorily maintained within manufacturer's recommendations.
 - .5 Additional exterior application requirements:
 - .1 Apply paint finishes when conditions forecast for entire period of application fall within manufacturer's recommendations.
 - .2 Do not apply paint when:
 - .1 Temperature is expected to drop below 10 degrees C before paint has thoroughly cured.
 - .2 Substrate and ambient air temperatures are expected to fall outside MPI or paint manufacturer's limits.

- .3 Surface to be painted is wet, damp or frosted.
- .3 Provide and maintain cover when paint must be applied in damp or cold weather. Heat substrates and surrounding air to comply with temperature and humidity conditions specified by manufacturer. Protect until paint is dry or until weather conditions are suitable.
- .4 Schedule painting operations such that surfaces exposed to direct, intense sunlight are scheduled for completion during early morning.
- .5 Remove paint from areas which have been exposed to freezing, excess humidity, rain, snow or condensation. Prepare surface again and repaint.

1.11 GUARANTEE

- i .1 Furnish either the local MPI Accredited Quality Assurance Association's two (2) year guarantee, or, alternatively, a 100% two (2) year Maintenance Bond - both in accordance with MPI Painting Manual requirements. The Maintenance Bond shall warrant that all painting work has been performed in accordance with MPI Painting Manual requirements.
- .2 Painting and decorating work shall be in accordance with MPI Painting Manual requirements and shall be inspected by the local MPI Accredited Quality Assurance Association's Paint Inspection Agency (inspector), whether using either the MPI Accredited Quality Assurance Association's guarantee, or the Maintenance Bond option. The cost for such inspections, and for either the local MPI Accredited Quality Assurance Association's Guarantee, or the Maintenance Bond, shall be included in the Base Bid Price.
- .3 Painting and decorating Subcontractors choosing the Maintenance Bond option shall provide a maintenance bond consent from a reputable surety company licensed to do business in Canada. Cash or certified check are not acceptable in lieu of surety consent.
- .4 If using a Maintenance Bond guarantee supply to the Contractor a facsimile of the Bond to be used with tender, include written proof of ability to furnish Maintenance Bond.
- .5 The guarantee will cover making good any defects in work of this trade due to faulty workmanship or defective materials which appear during the two year period following certified date of substantial performance of the Work.

Part 2 Products

2.1 MATERIALS

- .1 Materials and systems shall be to MPI Premium Grade paint systems unless otherwise indicated.
- .2 Unless otherwise indicated paint materials listed in the MPI Approved Products List (APL) shall be used on this project.
- .3 Provide paint materials for paint systems from single manufacturer.
- .4 Unless specified otherwise only qualified products with E2 "Environmentally Friendly" ratings are acceptable for use on this project, Use E3 rated products where available.
- .5 Conform to latest MPI requirements for painting work including preparation and priming.
- .6 Materials (primers, paints, coatings, varnishes, stains, lacquers, fillers, thinners, solvents, etc.) in accordance with MPI - Architectural Painting Specification Manual "Approved Product" listing.

- .7 Paints, coatings, adhesives, solvents, cleaners, lubricants, and other fluids:
 - .1 Use water-based coatings where available.
 - .2 Non-flammable.
 - .3 Manufactured without compounds which contribute to ozone depletion in the upper atmosphere.
 - .4 Manufactured without compounds which contribute to smog in the lower atmosphere.
 - .5 Do not contain methylene chloride, chlorinated hydrocarbons, toxic metal pigments.
- .8 Formulate and manufacture water-borne surface coatings with no aromatic solvents, formaldehyde, halogenated solvents, mercury, lead, cadmium, hexavalent chromium or their compounds.
- .9 Flash point: 61.0 degrees C or greater for water-borne surface coatings and recycled water-borne surface coatings.
- .10 Ensure manufacture and process of both water-borne surface coatings and recycled water-borne surface coatings does not release:
 - .1 Matter in undiluted production plant effluent generating 'Biochemical Oxygen Demand' (BOD) in excess of 15 mg/L to natural watercourse or sewage treatment facility lacking secondary treatment.
 - .2 Total Suspended Solids (TSS) in undiluted production plant effluent in excess of 15 mg/L to natural watercourse or a sewage treatment facility lacking secondary treatment.
- .11 Water-borne paints and stains, recycled water-borne surface coatings and water borne varnishes to meet minimum "Environmentally Friendly" E2 rating.
- .12 Recycled water-borne surface coatings must not contain:
 - .1 Lead in excess of 600.0 ppm weight/weight total solids.
 - .2 Mercury in excess of 50.0 ppm weight/weight total product.
 - .3 Cadmium in excess of 1.0 ppm weight/weight total product.
 - .4 Hexavalent chromium in excess of 3.0 ppm weight/weight total product.
 - .5 Organochlorines or polychlorinated biphenyls (PCBS) in excess of 1.0 ppm weight/weight total product.

2.2 COLOURS

- .1 Provide colours as scheduled.

2.3 MIXING AND TINTING

- .1 Unless otherwise specified or pre-approved, paint and stain shall be ready-mixed and pre-tinted. Re-mix all paint in contained prior to and during application to ensure break-up of lumps, completed dispersion of settled pigment, and colour and gloss uniformity.
- .2 Use and add thinner in accordance with paint manufacturer's recommendations. Do not use kerosene or similar organic solvents to thin water-based paints.
- .3 Thin paint for spraying in accordance with paint manufacturer's instructions.

2.4 GLOSS/SHEEN RATINGS

- .1 Paint gloss is defined as sheen rating of applied paint, in accordance with following values:
 Gloss @ 60 degrees Sheen @ 85 degrees
 Gloss Level 1 - Matte Finish (flat) Max. 5 Max. 10

- Gloss Level 2 - Velvet-Like Finish Max.10 10 to 35
- Gloss Level 3 - Eggshell Finish 10 to 25 10 to 35
- Gloss Level 4 - Satin-Like Finish 20 to 35 min. 35
- Gloss Level 5 - Traditional Semi-Gloss Finish 35 to 70
- Gloss Level 6 - Traditional Gloss 70 to 85
- Gloss Level 7 - High Gloss Finish More than 85
- .2 Gloss level ratings of painted surfaces to be confirmed by Consultant.

2.5 EXTERIOR PAINTING

- .1 Cementitious Composition Board:
 - .1 EXT 3.3J, G3/4 - Latex (over W.B alkali-resistant primer)
- .2 Galvanized Metal: non chromate passivated; high contact/high traffic areas (doors, frames, railings and handrails, etc.):
 - .1 EXT 5.3J, G3 – W.B. Light Industrial Coating (over w.b.primer).
- .3 Dimension Lumber: columns, beams, exposed joists, underside of decking, siding, fencing, etc.:
 - .1 Sansin ENS: colours to be selected by Consultant from manufacturer's full range. Full two coat system.
- .4 Dressed Lumber: doors, door and window frames, casings, battens, smooth facias, etc.:
 - .1 EXT 6.3A, G3 – Latex (over alkyd primer).
 - .2 EXT 6.3F, G7 – Marine Spar Varnish – MPI#28
 - .3 EXT 6.3D - Semi-transparent stain finish.

2.6 INTERIOR PAINTING

- .1 Unless otherwise specified, all interior painting work to be in accordance with MPI Premium Grade finish requirements.
- .2 Concrete vertical and overhead surfaces:
 - .1 INT 3.1C, G3 – High Performance Architectural Latex (over w.b. alkali resistant primer).
- .3 Concrete horizontal surfaces: floors and stairs:
 - .1 INT 3.2A, G3 – Latex floor enamel.
- .4 Structural Steel and Metal Fabrications: columns, beams, joists and miscellaneous metal:
 - .1 INT 5.1S, G3 - Institutional Low Odour/VOC (over w.b. rust-inhibitive primer).
- .5 Galvanized metal: doors, frames, railings, misc. steel, pipes, overhead decking, and ducts:
 - .1 INT 5.3M, G3 – High Performance architectural latex (over w/b/ galvanized primer).
- .6 Dimension lumber: columns, beams, exposed joists, underside of decking:
 - .1 INT 6.2B, G3 - High Performance architectural latex (over alkyd primer).
- .7 Dressed Lumber: doors, door and window frames, casings, mouldings, etc.:
 - .1 INT 6.3A, G3 – High performance architectural latex (over latex primer).
 - .2 INT 6.3EE, G3 - Polyurethane varnish finish (over w.b. stain).
- .8 Plaster and gypsum board: gypsum wallboard, drywall, "sheet rock" type material, and textured finishes:
 - .1 INT 9.2M, sheen to be confirmed by Consultant, Institutional low odour/low VOC.

2.7 SOURCE QUALITY CONTROL

.1 Perform following tests on each batch of consolidated post-consumer material before surface coating is reformulated and canned. Testing by laboratory or facility which has been accredited by Standards Council of Canada.

.1 Lead, cadmium and chromium are to be determined using ICP-AES (Inductively Coupled Plasma - Atomic Emission Spectroscopy) technique no. 6010 as defined in EPA SW-846.

.2 Mercury is to be determined by Cold Vapour Atomic Absorption Spectroscopy using Technique no. 7471 as defined in EPA SW-846.

.3 Organochlorines and PCBs are to be determined by Gas Chromatography using Technique no. 8081 as defined in EPA SW-846.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

.1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and data sheet.

3.2 GENERAL

.1 Perform preparation and operations for interior and exterior painting in accordance with MPI - Architectural Painting Specifications Manual except where specified otherwise.

.2 Apply paint materials in accordance with paint manufacturer's written application instructions.

3.3 EXAMINATION

.1 Investigate existing substrates for problems related to proper and complete preparation of surfaces to be painted. Report to Consultant damages, defects, unsatisfactory or unfavourable conditions before proceeding with work.

.2 Conduct moisture testing of surfaces to be painted using properly calibrated electronic moisture meter, except test concrete floors for moisture using simple "cover patch test". Do not proceed with work until conditions fall within acceptable range as recommended by manufacturer.

.3 Maximum moisture content as follows:

.1 Stucco, plaster and gypsum board: 12%.

.2 Concrete: 12%.

.3 Wood: 12%.

.4 Clay and Concrete Block/Brick: 12%

3.4 PREPARATION

.1 Protection:

.1 Protect existing building surfaces and adjacent structures from paint spatters, markings and other damage by suitable non-staining covers or masking. If damaged, clean and restore surfaces as directed by Consultant.

- .2 Protect items that are permanently attached such as Fire Labels on doors and frames.
- .3 Protect factory finished products and equipment.
- .4 Protect passing pedestrians, and general public in and about the building.
- .2 Surface Preparation:
 - .1 Remove electrical cover plates, light fixtures, surface hardware on doors, bath accessories and other surface mounted equipment, fittings and fastenings prior to undertaking painting operations. Identify and store items in secure location and re-installed after painting is completed.
 - .2 Move and cover furniture and portable equipment as necessary to carry out painting operations. Replace as painting operations progress.
 - .3 Place "WET PAINT" signs in occupied areas as painting operations progress. Signs to approval of Consultant.
- .3 Clean and prepare surfaces in accordance with MPI - Architectural Painting Specification Manual requirements and coating manufacturer's recommendations. Refer to MPI Manual in regard to specific requirements and as follows:
 - .1 Remove dust, dirt, and other surface debris by vacuuming, wiping with dry, clean cloths or compressed air.
 - .2 Wash surfaces with a biodegradable detergent and bleach where applicable and clean warm water using a stiff bristle brush to remove dirt, oil and other surface contaminants.
 - .3 Rinse scrubbed surfaces with clean water until foreign matter is flushed from surface.
 - .4 Allow surfaces to drain completely and allow to dry thoroughly.
 - .5 Prepare surfaces for water-based painting, water-based cleaners should be used in place of organic solvents.
 - .6 Use trigger operated spray nozzles for water hoses.
 - .7 Many water-based paints cannot be removed with water once dried. Minimize use of mineral spirits or organic solvents to clean up water-based paints.
- .4 Prevent contamination of cleaned surfaces by salts, acids, alkalis, other corrosive chemicals, grease, oil and solvents before prime coat is applied and between applications of remaining coats. Apply primer, paint, or pretreatment as soon as possible after cleaning and before deterioration occurs.
- .5 Where possible, prime non-exposed surfaces of new wood surfaces before installation. Use same primers as specified for exposed surfaces.
 - .1 Apply vinyl sealer to MPI #36 over knots, pitch, sap and resinous areas.
 - .2 Apply wood filler to nail holes and cracks.
 - .3 Tint filler to match stains for stained woodwork.
- .6 Sand and dust between coats as required to provide adequate adhesion for next coat and to remove defects visible from a distance up to 1000 mm.
- .7 Clean metal surfaces to be painted including sprinkler piping by removing rust, loose mill scale, welding slag, dirt, oil, grease and other foreign substances in accordance with MPI requirements. Remove traces of blast products from surfaces, pockets and corners to be painted by brushing with clean brushes, blowing with clean dry compressed air or vacuum cleaning.
- .8 Touch up of shop primers with primer as specified.
- .9 Do not apply paint until prepared surfaces have been accepted by Consultant and Construction Manager.

3.5 APPLICATION

- .1 Method of application to be as approved by Consultant. Apply paint by brush, roller, air sprayer or airless sprayer. Conform to manufacturer's application instructions unless specified otherwise.
- .2 Brush and Roller Application:
 - .1 Apply paint in uniform layer using brush and/or roller type suitable for application.
 - .2 Work paint into cracks, crevices and corners.
 - .3 Paint surfaces and corners not accessible to brush using spray, daubers and/or sheepskins. Paint surfaces and corners not accessible to roller using brush, daubers or sheepskins.
 - .4 Brush and/or roll out runs and sags, and over-lap marks. Rolled surfaces free of roller tracking and heavy stipple.
 - .5 Remove runs, sags and brush marks from finished work and repaint.
- .3 Spray application:
 - .1 Provide and maintain equipment that is suitable for intended purpose, capable of atomizing paint to be applied, and equipped with suitable pressure regulators and gauges.
 - .2 Keep paint ingredients properly mixed in containers during paint application either by continuous mechanical agitation or by intermittent agitation as frequently as necessary.
 - .3 Apply paint in uniform layer, with overlapping at edges of spray pattern. Back roll first coat application.
 - .4 Brush out immediately all runs and sags.
 - .5 Use brushes and rollers to work paint into cracks, crevices and places which are not adequately painted by spray.
- .4 Use dipping, sheepskins or daubers only when no other method is practical in places of difficult access.
- .5 Apply coats of paint continuous film of uniform thickness. Repaint thin spots or bare areas before next coat of paint is applied.
- .6 Allow surfaces to dry and properly cure after cleaning and between subsequent coats for minimum time period as recommended by manufacturer.
- .7 Sand and dust between coats to remove visible defects.
- .8 Finish surfaces both above and below sight lines as specified for surrounding surfaces, including such surfaces as tops of interior cupboards and cabinets and projecting ledges.
- .9 Finish closets and alcoves as specified for adjoining rooms.
- .10 Finish top, bottom, edges and cutouts of doors after fitting as specified for door surfaces.

3.6 MECHANICAL/ELECTRICAL EQUIPMENT

- .1 Paint finished area exposed conduits, piping, hangers, ductwork and other mechanical and electrical equipment with colour and finish to match adjacent surfaces, except as indicated.
- .2 Other unfinished areas: leave exposed conduits, piping, hangers, ductwork and other mechanical and electrical equipment in original finish and touch up scratches and marks.
- .3 Touch up scratches and marks on factory painted finishes and equipment with paint as supplied by manufacturer of equipment.

- .4 Do not paint over nameplates.
- .5 Keep sprinkler heads free of paint.
- .6 Paint inside of ductwork where visible behind grilles, registers and diffusers with primer and one coat of matt black paint.
- .7 Paint fire protection piping: to be confirmed by Consultant.
- .8 Paint natural gas piping yellow. to be confirmed by Consultant.
- .9 Paint both sides and edges of backboards for telephone and electrical equipment before installation with intumescent paint. Leave equipment in original finish except for touch-up as required, and paint conduits, mounting accessories and other unfinished items.
- .10 Do not paint interior transformers and substation equipment.

3.7 SITE TOLERANCES

- .1 Walls: no defects visible from a distance of 1000 mm at 90 degrees to surface.
- .2 Ceilings: no defects visible from floor at 45 degrees to surface when viewed using final lighting source.
- .3 Final coat to exhibit uniformity of colour and uniformity of sheen across full surface area.

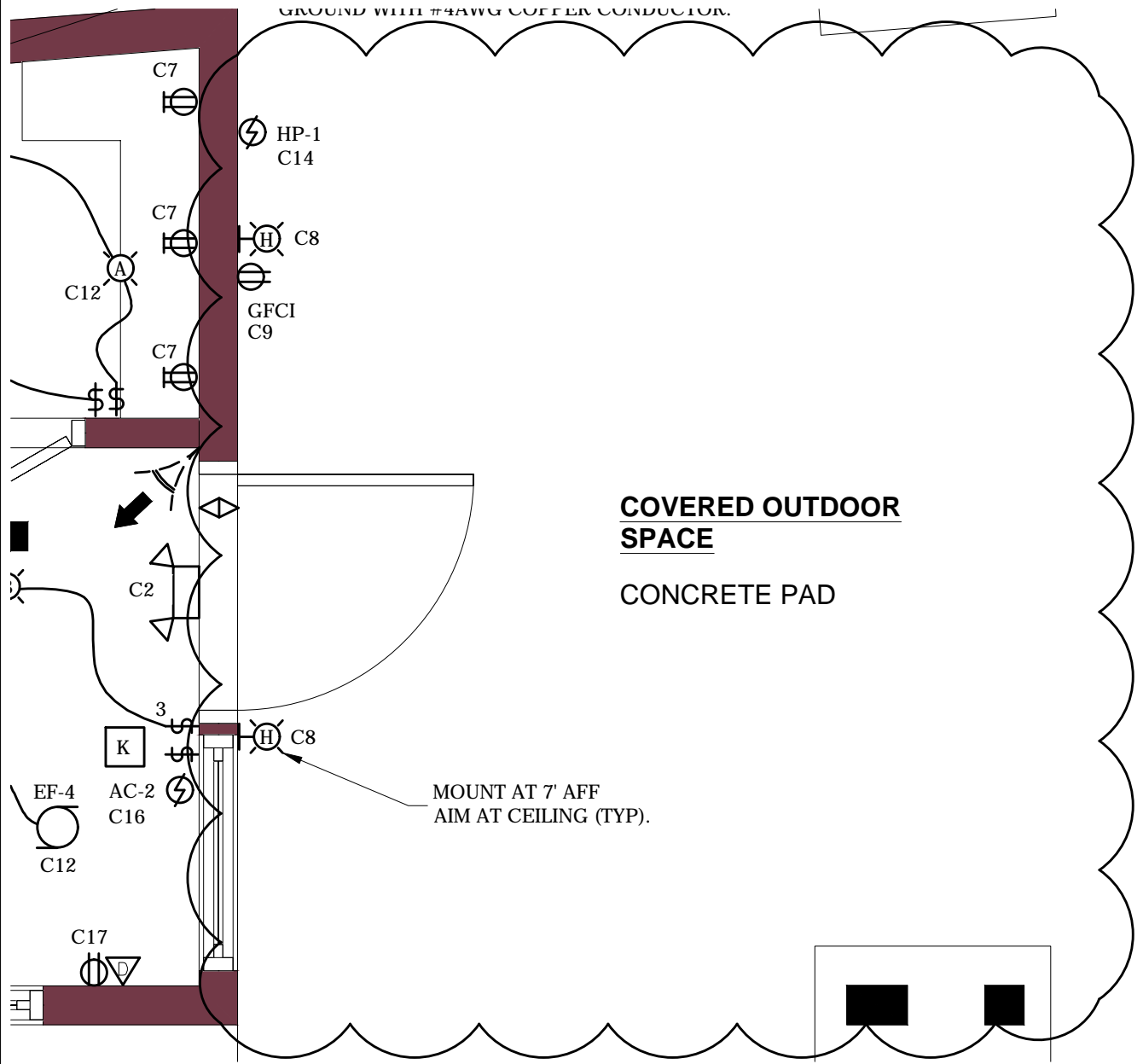
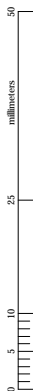
3.8 FIELD QUALITY CONTROL

- .1 Where "special" painting, coating or decorating system applications (i.e. elastomeric coatings) or non-MPI listed products or systems are to be used, paint or coating manufacturer shall provide as part of this work, certification of surfaces and conditions for specific paint or coating system application as well as on site supervision, inspection and approval of their paint or coating system application as required at no additional cost to Consultant.
- .2 Advise Consultant when surfaces and applied coating is ready for inspection. Do not proceed with subsequent coats until previous coat has been approved.
- .3 Retain purchase orders, invoices and other documents to prove conformance with noted MPI requirements when requested by Consultant.

3.9 CLEANING

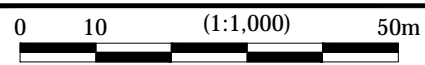
- .1 Clean in accordance with requirements of Construction Manager.
- .2 Remove paint where spilled, splashed, splattered or sprayed as work progresses using means and materials that are not detrimental to affected surfaces

END OF SECTION



TYPE G - 20 WATT LED FLOOD LIGHT COMPLETE WITH 4000°K LIGHT & 1700 LUMEN OUTPUT.
PROVIDE PHILIPS KEENE LYTEPRO MINI CAT. NO. LPF1-E-4K-FL-K-F1-1-BZ.

TYPE H - 28 WATT SURFACE MOUNT LED WALL SCONCE WITH 4000°K LIGHT, 2818 LUMEN OUTPUT, TYPE 3
DISTRIBUTION COLOURED MEDIUM GRAY.
PROVIDE PHILIPS GARDCO 121-16L530-NW-G3-3-120-MGY.



Meade Creek Recycling Facility

Project No.: 01/05/2017



ELECTRICAL

FIGURE E01 ADD3

FORM OF TENDER
COWICHAN VALLEY REGIONAL DISTRICT
MEADE CREEK RECYCLING FACILITY
Reference Number: ES-016-17

To Owner:

**WE, THE
UNDERSIGNED:**

- 1 1.1 have received and carefully reviewed all of the *Contract Documents*, including the Instructions to Tenderers, the specified edition of the "Master Municipal Construction Documents - General Conditions, Specifications and Standard Detail Drawings" and the following Addenda:

(ADDENDA, IF ANY)

- 1.2 have full knowledge of the *Place of the Work*, and the *Work* required; and
1.3 have complied with the Instructions to Tenderers.

**ACCORDINGLY, WE
HEREBY OFFER:**

- 2 2.1 to perform and complete all of the *Work* and to provide all the labour, equipment and material all as set out in the *Contract Documents*, in strict compliance with the *Contract Documents*; and
2.2 to achieve Substantial Performance of the *Work* on or before the date of Substantial Performance as stated under 'Key Dates' on the 'Invitation to Tender'
2.3 to do the *Work* for the price, which is the sum of the products of the actual quantities incorporated into the *Work* and the appropriate unit prices set out in Appendix 1, the "*Schedule of Quantities and Prices*", plus any lump sums or specific prices and adjustment amounts as provided by the *Contract Documents*. For the purposes of tender comparison, our offer is to complete the *Work* for the "*Tender Price*" as set out on Appendix 1 of this Form of Tender. Our *Tender Price* is based on the estimated quantities listed in the *Schedule of Quantities and Prices*, and excludes GST.

WE CONFIRM:

- 3 3.1 that we understand and agree that the quantities as listed in the *Schedule of Quantities and Prices* are estimated, and that the actual quantities will vary.

WE CONFIRM:

- 4 4.1 that the following appendices are attached to and form a part of this tender:
4.1.1 the appendices as required by paragraph 5.3 of the Instructions to Tenderers - Part II; and
4.1.2 the *Bid Security* as required by paragraph 5.2 of the Instructions to Tenderers - Part II.

WE AGREE:

- 5 5.1 that this tender will be irrevocable and open for acceptance by the Owner for a period of **60** calendar days from the day following the Tender Closing Date and Time, even if the tender of another tenderer is accepted by the Owner. If within this period the Owner delivers a written notice ("Notice of Award") by which the Owner accepts our tender we will:
5.1.1 within **15 Days** of receipt of the written *Notice of Award* deliver to the Owner.

Tenderer's Initials _____

FORM OF TENDER
COWICHAN VALLEY REGIONAL DISTRICT
MEADE CREEK RECYCLING FACILITY
Reference Number: ES-016-17

- a) a Performance Bond and a Labour and Material Payment Bond, each in the amount of 50% of the *Contract Price*, covering the performance of the *Work* including the *Contractor's* obligations during the *Maintenance Period*, issued by a surety licensed to carry on the business of suretyship in the province of British Columbia, and in a form acceptable to the *Owner*;
- b) a *Baseline Construction Schedule*, as provided by GC 4.6.1;
- c) a 'clearance letter' indicating that the tenderer is in WCB compliance; and
- d) a copy of the insurance policies as specified in GC 24 and any Supplementary GCs indicating that all such insurance coverage is in place and;

5.1.2 within 2 *Days* of receipt of written "*Notice to Proceed*", or such longer time as may be otherwise specified in the *Notice to Proceed*, commence the *Work*; and

5.1.3 sign the Contract Documents as required by GC 2.1.2.

WE AGREE:

6

6.1 that, if we receive written *Notice of Award* of this *Contract* and, contrary to paragraph 5 of this Form of Tender, we:

6.1.1 fail or refuse to deliver the documents as specified by paragraph 5.1.1 of this Form of Tender; or

6.1.2 fail or refuse to commence the *Work* as required by the *Notice to Proceed*,

then such failure or refusal will be deemed to be a refusal by us to enter into the *Contract* and the *Owner* may, on written notice to us, award the *Contract* to another party. We further agree that, as full compensation on account of damages suffered by the *Owner* because of such failure or refusal, the *Bid Security* shall be forfeited to the *Owner*, in an amount equal to the lesser of:

6.1.3 the face value of the *Bid Security*; and

6.1.4 the amount by which our *Tender Price* is less than the amount for which the *Owner* contracts with another party to perform the *Work*.

OUR ADDRESS IS:

Phone: ____ - ____

Fax: ____ - ____

Attention: _____

Tenderer's Initials _____

FORM OF TENDER
COWICHAN VALLEY REGIONAL DISTRICT
MEADE CREEK RECYCLING FACILITY
Reference Number: ES-016-17

This Tender is executed this

_____ day of _____, 2017.

Contractor.

(FULL LEGAL NAME OF CORPORATION, PARTNERSHIP OR INDIVIDUAL)

(AUTHORIZED SIGNATORY)

(AUTHORIZED SIGNATORY)

Tenderer's Initials _____

Appendix 1
SCHEDULE OF QUANTITIES AND PRICES
(See paragraph 5.3.1 of the Instructions to Tenderers - Part II)

(All prices and *Quotations* including the *Contract Price* shall NOT include GST.)

SUMMARY SHEET

Division 01:	General Requirements	\$ _____
Division 02:	Existing Condition	\$ _____
Division 03:	Concrete	\$ _____
Division 13	Special Construction	\$ _____
Division 21	Fire Suppression	\$ _____
Division 26	Electrical	\$ _____
Division 31	Earthworks	\$ _____
Division 32	Roads and Site Improvements	\$ _____
Division 33:	Utilities	\$ _____
Division 41:	Equipment	\$ _____
	Indeterminate Work	\$ _____
TOTAL TENDER PRICE		\$ _____

(Total Tender Price excludes GST)

Tenderer's Initials _____

Appendix 3
EXPERIENCE OF SUPERINTENDENT
(See paragraph 5.3.3 of the Instructions to Tenderers - Part II)

Name: _____

Experience:

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Dates: _____

Project Name: _____

Responsibility: _____

References: _____

Tenderer's Initials _____

FORM OF TENDER
COWICHAN VALLEY REGIONAL DISTRICT
MEADE CREEK RECYCLING FACILITY
Reference Number: ES-016-17

Appendix 4
COMPARABLE WORK EXPERIENCE
(See paragraph 5.3.4 of the Instructions to Tenderers - Part II)

Project	Owner / Contact Name	Phone Number	Work Description	Value (\$)

Tenderer's Initials_____

FORM OF TENDER
COWICHAN VALLYE REGIONAL DISTRICT
MEADE CREEK RECYCLING FACILITY
Reference Number: ES-016-17

Appendix 5
SUBCONTRACTORS
(See paragraph 5.3.5 of the Instructions to Tenderers - Part II)

Tender Item	Trade	Subcontractor Name	Phone Number

Tenderer's Initials _____