

EXTERNAL WALL SYSTEM DISCLOSURE STATEMENT (DESIGN)**EXTERNAL WALL COMPONENTS (TYPE A & B CONSTRUCTION)**

This statement must be completed by a Registered Architect, Façade Engineer, suitably qualified Design Manager or other Professional agreed acceptable to Multiplex

Project Name	<i>Mosman High School</i>
Address	<i>Military Road, Mosman NSW 2088</i>
Part of Building	<i>External Façade System</i>
BCA referred to	BCA 2019

- I confirm that the table provided overleaf identifies all the proposed external wall systems and wall elements designed for the subject development, including the component elements of those systems, and any attachments thereto.
 - TTW façade performance drawings and architectural drawings have been attached for reference
 - Available test reports for known products have been attached
- I have undertaken reasonable investigations to ascertain that these systems and components comply with the non-combustibility requirements of Clause C1.9 of the BCA, such as reviewing product technical information, fire test reports, code mark certificates, fire-engineer's reports, external consultant advice and Part J Energy Efficiency reports.
- Supporting documents that demonstrate compliance for each wall type with the relevant sections of the BCA are provided and attached.
- I am a suitably qualified person and my qualifications and accreditations are listed below.
- The information contained in this statement is true and accurate to the best of my knowledge.

Relevant qualifications and accreditations: _____

_____ BSc Architecture, Msc Building Technology

Name: _____ Dwayne Van Halewijn

Company: _____ Taylor Thomson Whitting

Address: _____ L6 73 Miller Street, North Sydney 2060 NSW

Phone No. _____ 02 9439 7288

Fax No. _____



Signature

08/12/21

Date

EXTERNAL WALL ELEMENTS TABLE The table below must be completed for all wall types.

LINING / CLADDING MATERIAL (Note. Nominate every type of external cladding and/or wall material)

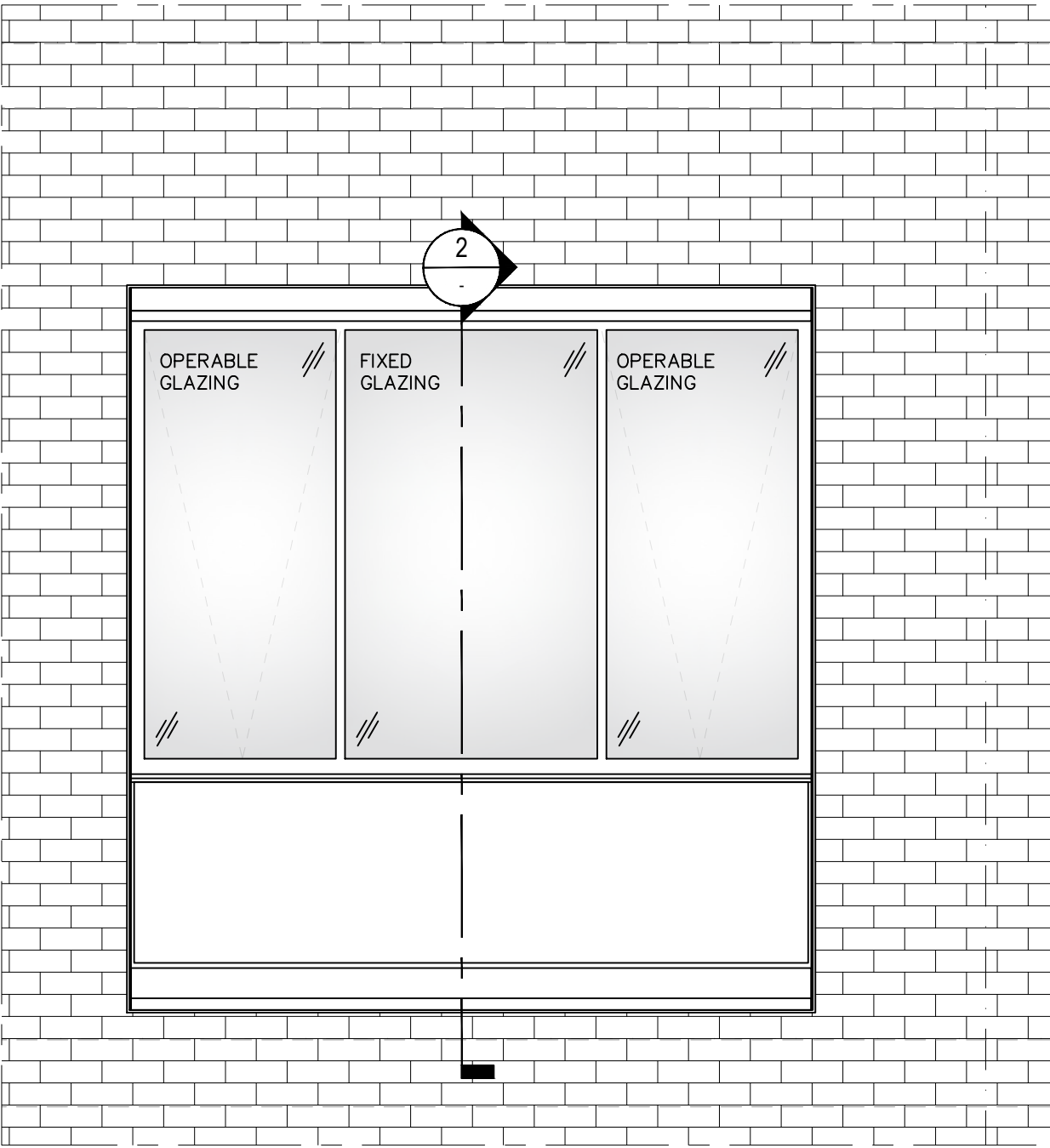
External/Cladding Material (Eg Fibre cement, Aluminium composite panel, masonry etc)	Elevation(s)	Structural frame material	Manufacturer (Eg, Alucobond, Vitracore etc)	Product Name (Eg, Alucobond Plus, Vitracore G2 etc)	Test certificate, Codemark certificate or Fire Engineering Report (List all documents evidencing compliance)	Nominated or proprietary installation requirements (relevant installation details or guidelines must be listed below and attached)
Brick	All elevations	Steel stud wall	TBC by subcontractor	TBC by subcontractor	TBC by subcontractor to provide AS 1530.1 and 1530.3 certificate for chosen brick product	As per manufacturer's specification
Aluminium	All elevations for window framing and shrouds	Steel stud wall	TBC by subcontractor	TBC by subcontractor	TBC by subcontractor to provide AS 1530.1 and 1530.3 certificate for chosen aluminium product	As per manufacturer's specification
Glass	All elevations for windows	Aluminium window frame	TBC by subcontractor	TBC by subcontractor	Not required under BCA 2019 C1.9(d)(v)	As per manufacturer's specification
Compressed Fibre Cement Cladding	South and west classroom elevations	Steel stud wall	Swisspearl	TBC by subcontractor	TBC by subcontractor to provide AS 1530.4 certificate for chosen CFC product	As per manufacturer's specification
Steel standing seam cladding	All elevations of library	Steel stud wall	Stramit	TBC by subcontractor	AS 1530.3	As per manufacturer's specification

INSULATION (list all types incorporated in the external wall systems)

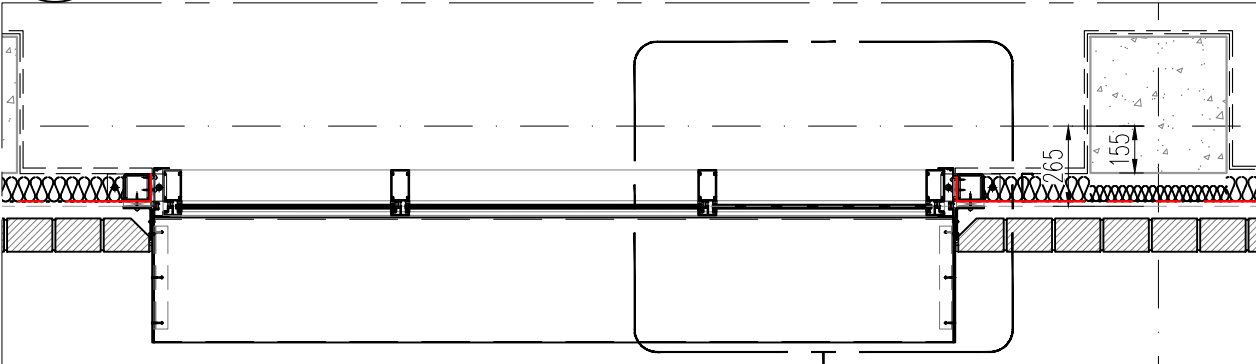
Material Rockwool etc	Elevation	Manufacture (Eg, CSR etc)	Product Name	Test certificate reference
Non-combustible Rockwool	All elevations	TBC by subcontractor	TBC by subcontractor	TBC by subcontractor to provide AS 1530.1 certificate for chosen insulation product

SARKING (list all types incorporated in the external wall systems)

Manufacture (Eg, CSR etc)	Elevation	Product Name	Test certificate reference
TBC by subcontractor	All elevations	TBC by subcontractor, sarking to be < 1mm thickness	TBC by subcontractor to provide AS 1530.2 certificate for chosen sarking product



1 FT-02: PARTIAL ELEVATION
SCALE 1:25

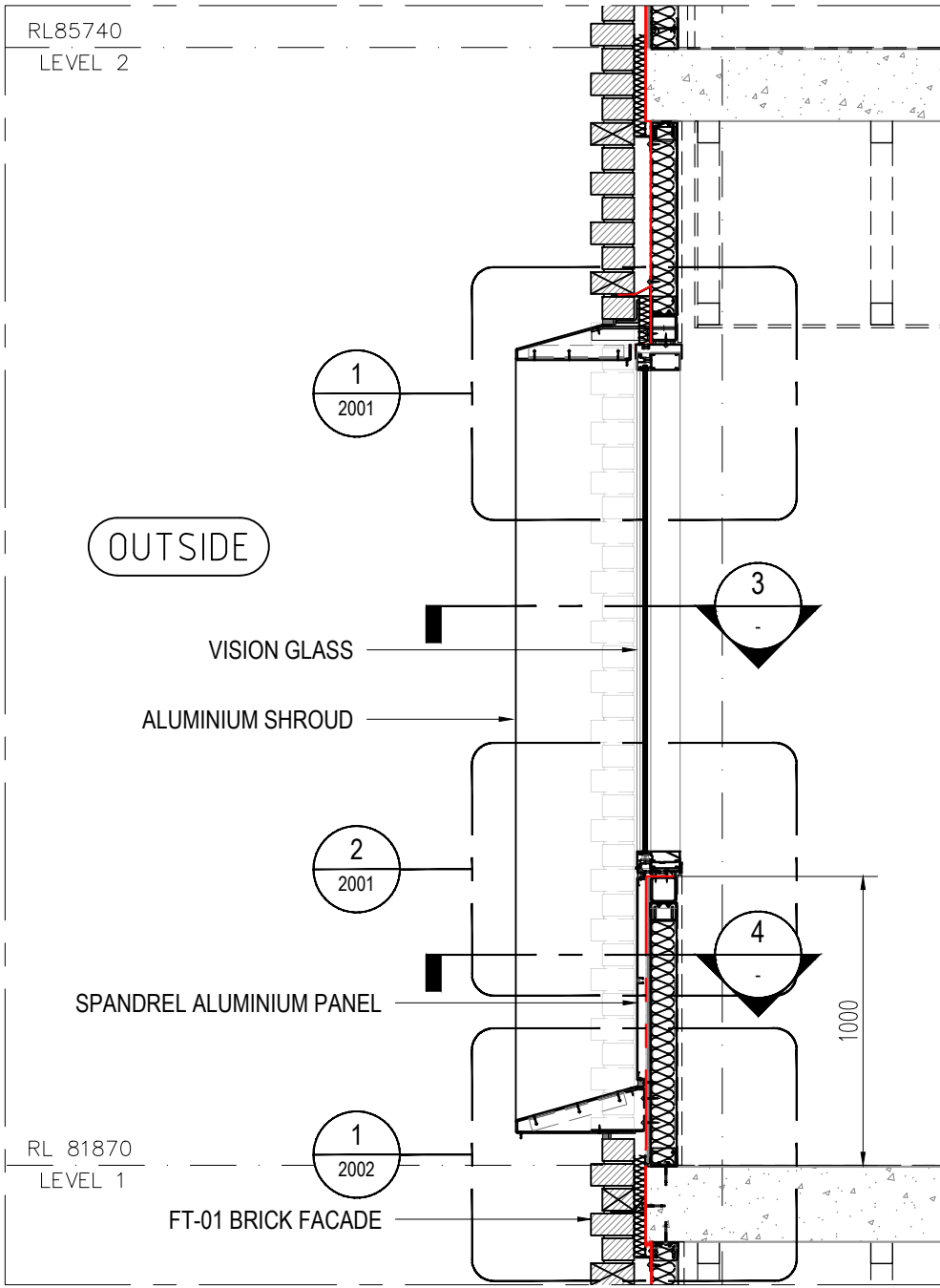


3 FT-02: HORIZ SECTION @ VISION
SCALE 1:25

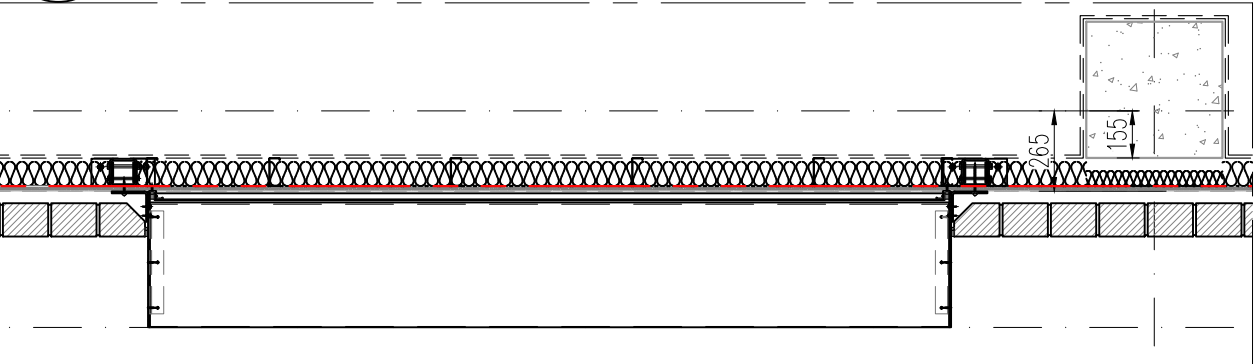
1
2003

RL85740
LEVEL 2

RL 81870
LEVEL 1



2 FT-02: VERTICAL SECTION
SCALE 1:25



4 FT-02: HORIZ SECTION @ SPANDREL
SCALE 1:25

RL 81870
LEVEL 1

FT-01 BRICK FACADE

OUTSIDE

VISION GLASS

ALUMINIUM SHROUD

SPANDREL ALUMINIUM PANEL

1
2001

2
2001

1
2002

3

1000

4

1	DRAFT	BH	DVH	27/07/21
Rev	Description	Eng	Director	Date

Facade Consultant

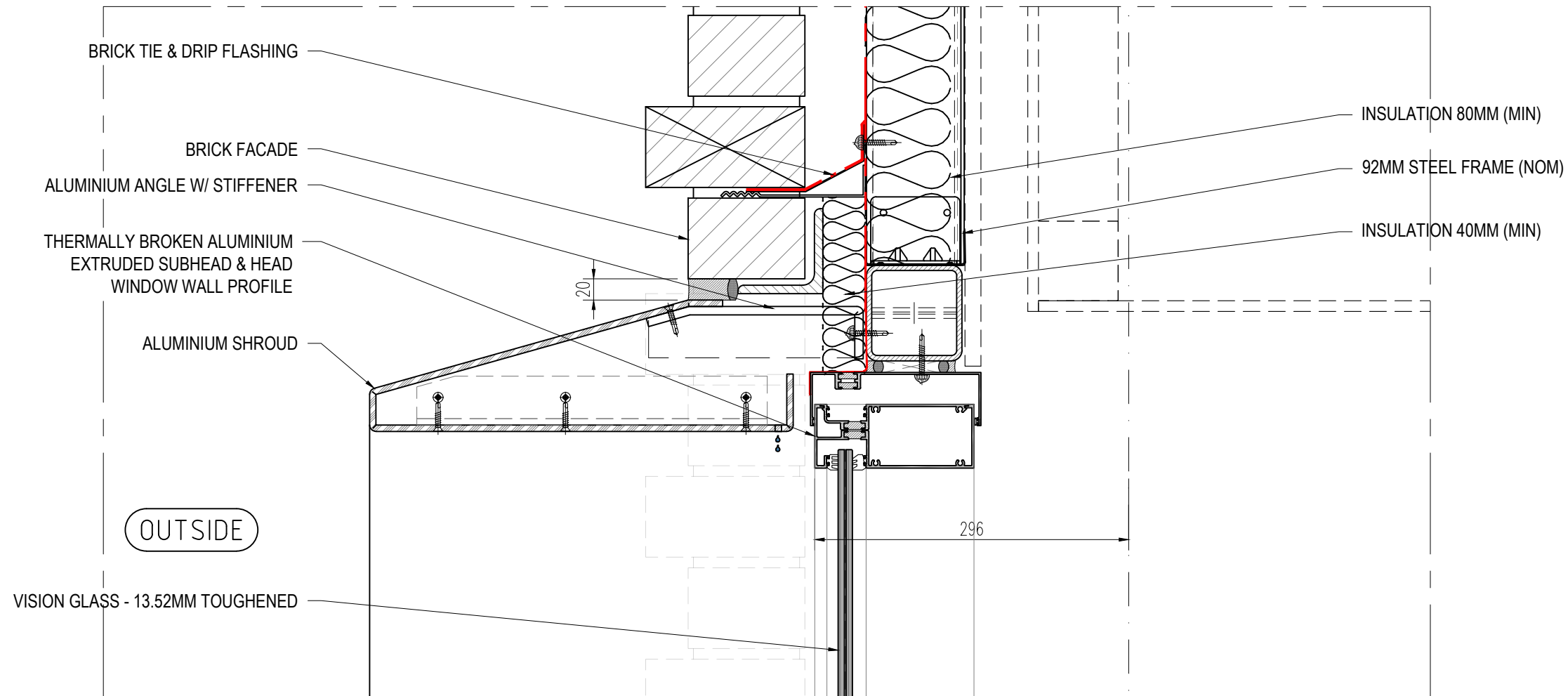
TTW Taylor Thomson Whitting

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PO Box 738 Crows Nest NSW 1585 E:ttwsyd@ttw.com.au

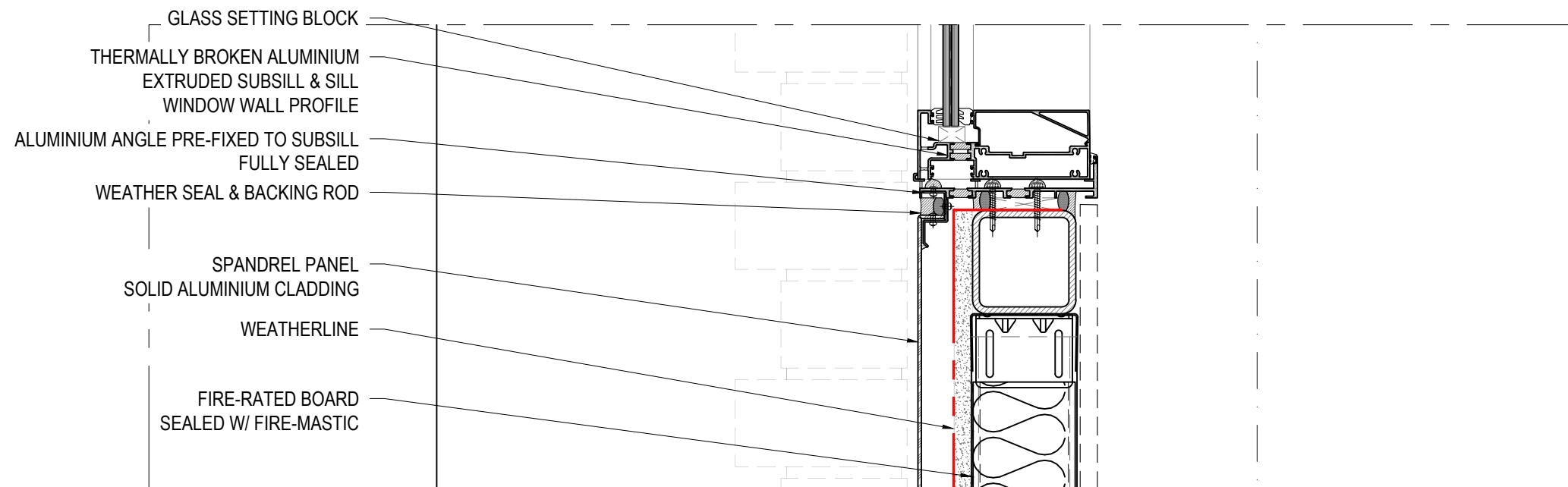
Project
MOSMAN HIGH SCHOOL

Sheet Subject
FT-02: POP OUT WINDOWS
GA DRAWING

Scale @ A3 : 1:25	Drawn By: AP	Eng: BH	Director: DVH
Job No 201635	Drawing No 2000	Revision 1	



1 HEAD DETAIL
SCALE 1:5



2 SILL DETAIL
SCALE 1:5

1	DRAFT	BH	DVH	27/07/21
Rev	Description	Eng	Director	Date

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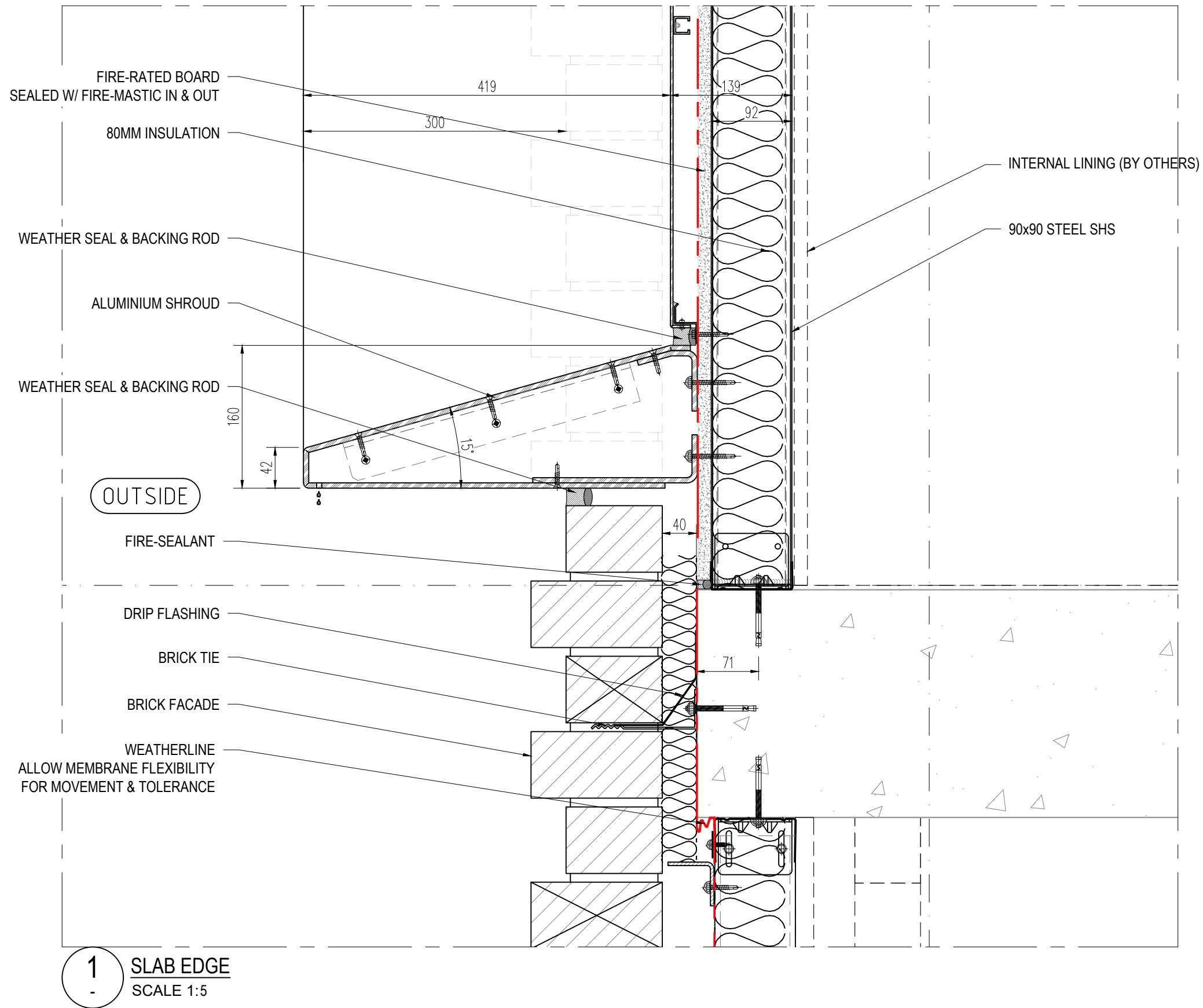
Project

MOSMAN HIGH SCHOOL

Sheet Subject

FT-02: HEAD & SILL DETAIL

Scale @ A3 : 1:5	Drawn By: AP	Eng: BH	Director: DVH
Job No 201635	Drawing No 2001	Revision 1	



Rev	Description	Eng	Director	Date
1	DRAFT	BH	DVH	27/07/21

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Project

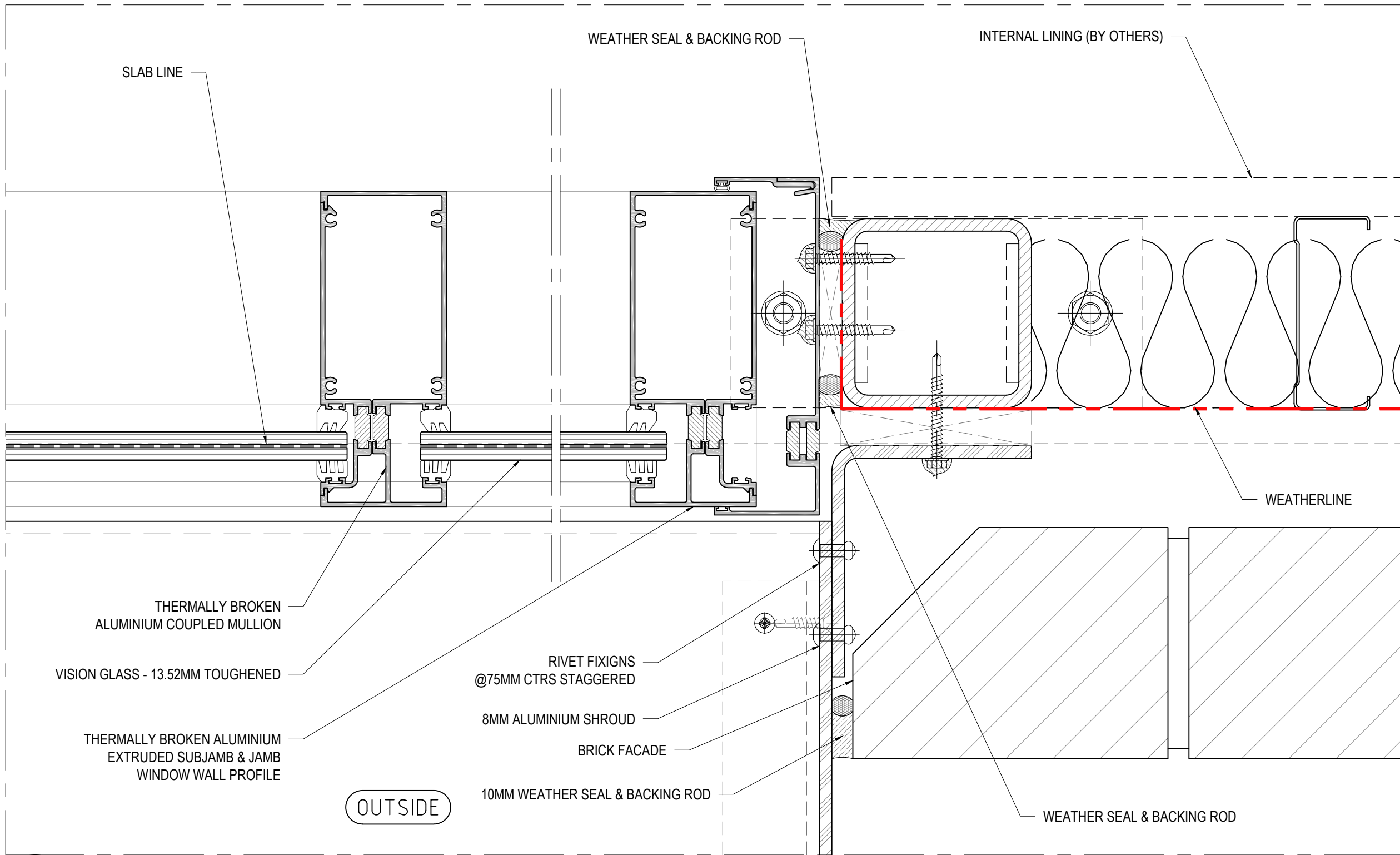
MOSMAN HIGH SCHOOL

Sheet Subject

FT-02: SLAB EDGE DETAIL

Scale @ A3 : 1:5	Drawn By: AP	Eng: BH	Director: DVH
Job No 201635	Drawing No 2002	Revision 1	

A3 100mm 90 80 70 60 50 40 30 20 10 0



1 JAMB & MULLION DETAIL
SCALE 1:2

1	DRAFT	BH	DVH	27/07/21
Rev	Description	Eng	Director	Date

Facade Consultant

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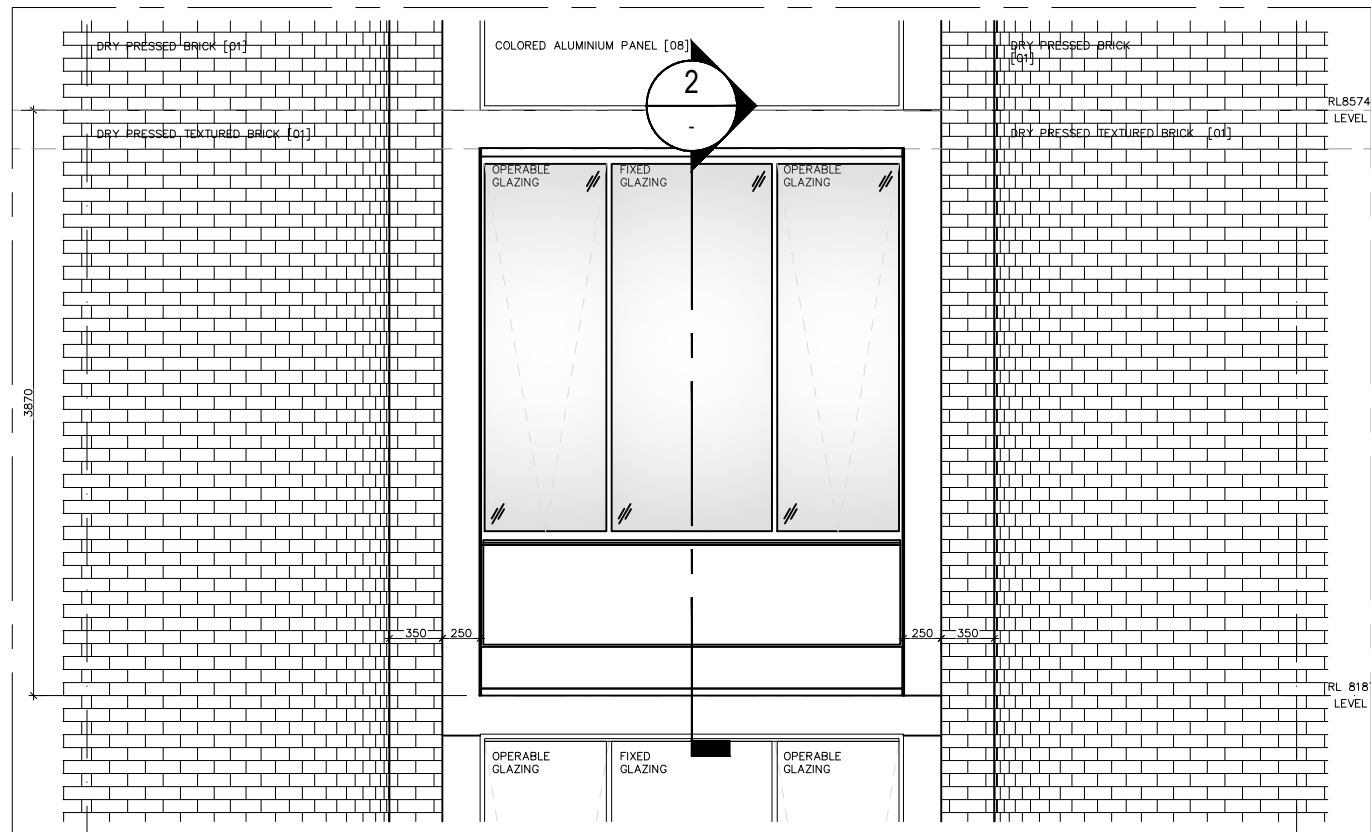
Project

MOSMAN HIGH SCHOOL

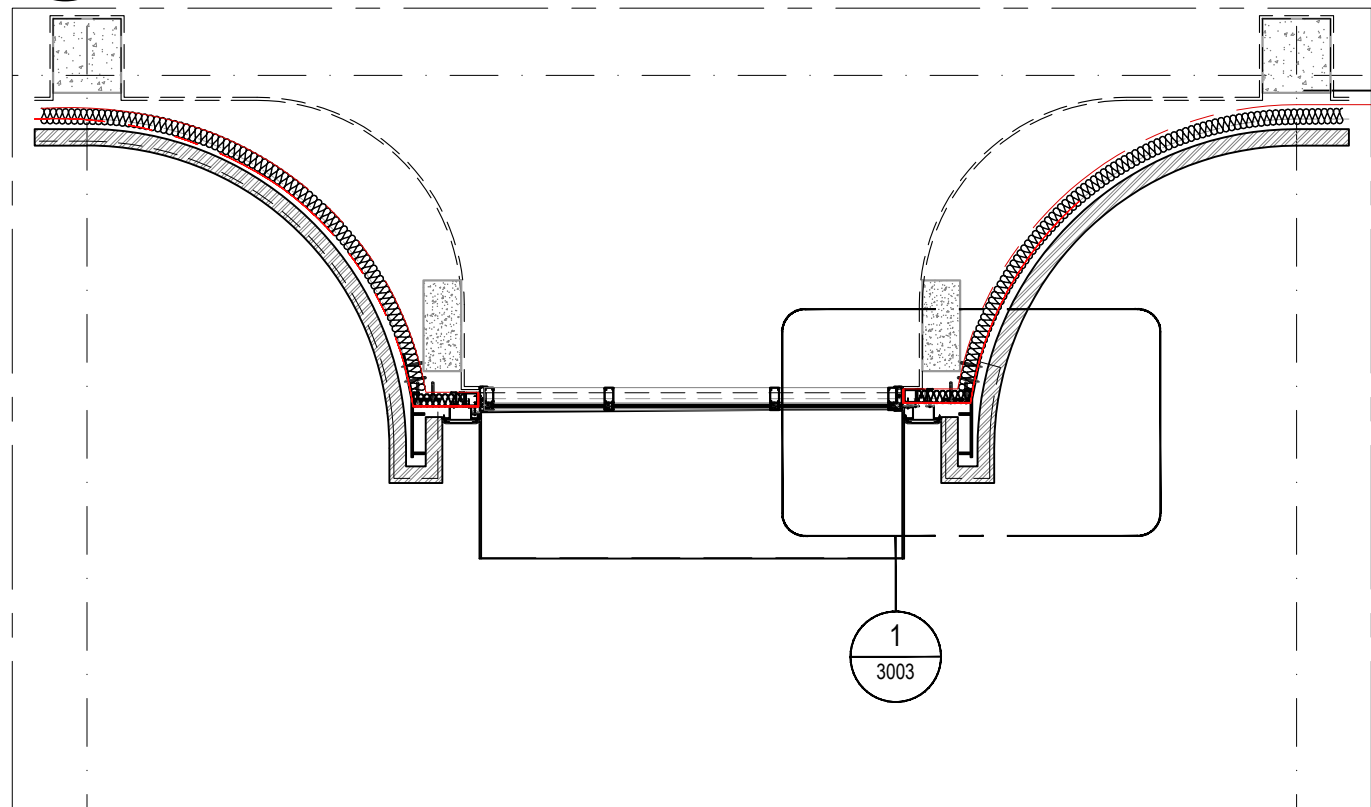
Sheet Subject

FT-02: JAMB & MULLION DETAIL

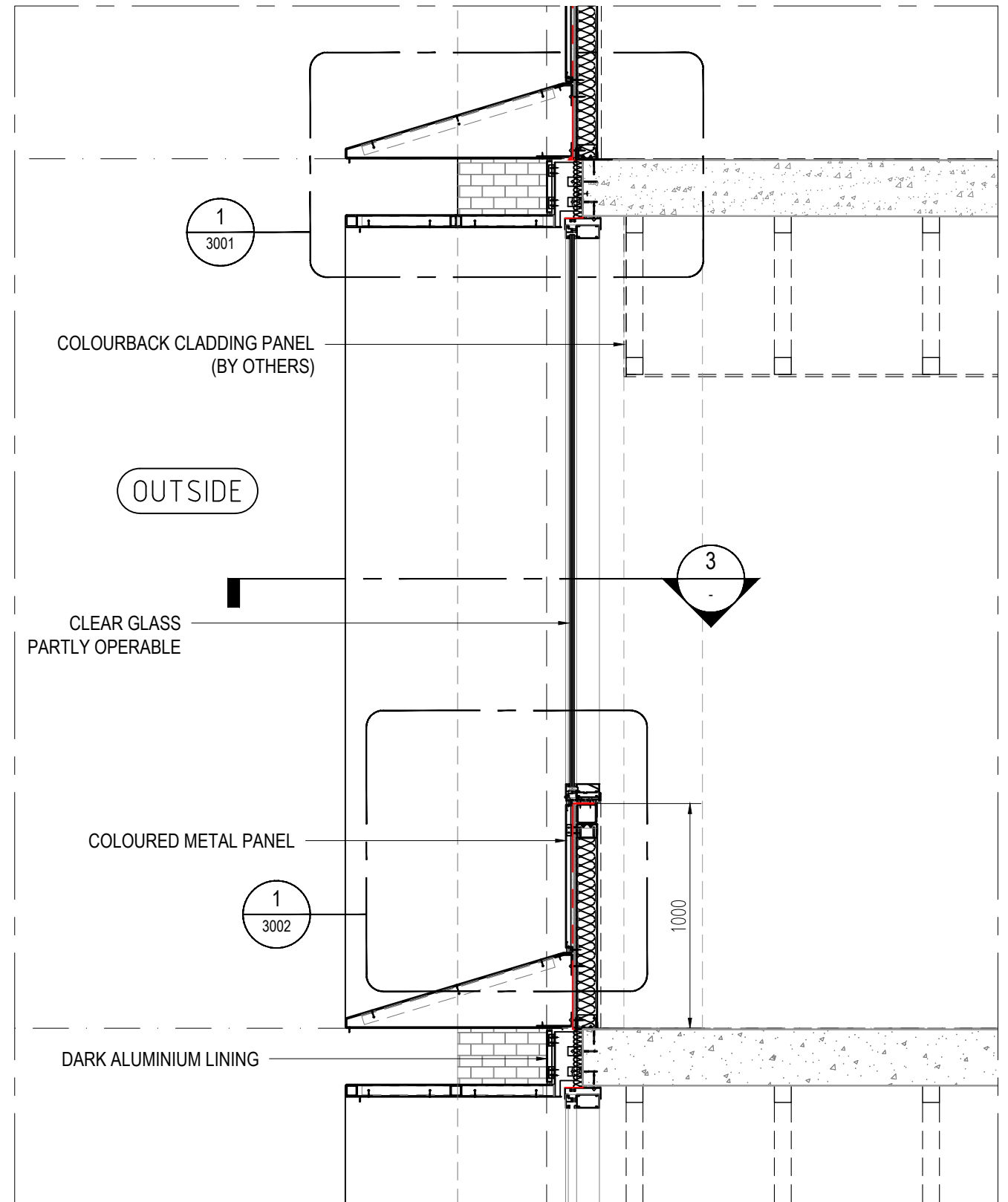
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Job No 201635	Drawing No 2003	Revision 1	



1 FT-03: PARTIAL ELEVATION
SCALE 1:50



3 FT-03: HORIZ SECTION
SCALE 1:50



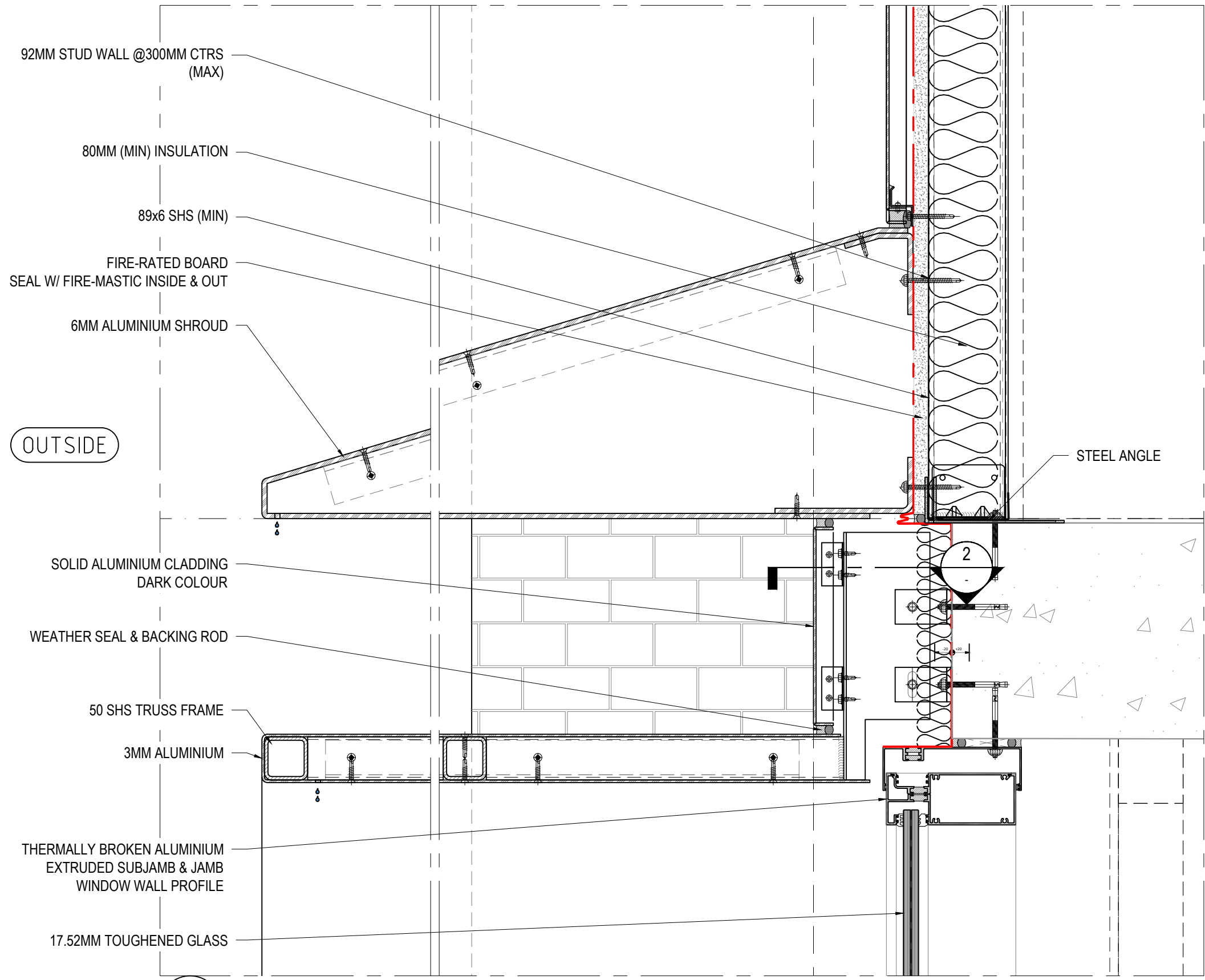
2 FT-03: VERTICAL SECTION
SCALE 1:25

					Facade Consultant TTW Taylor Thomson Whitting +612 9439 7288 Level 6 / 73 Miller St, North Sydney NSW2060 PO Box 738 Crows Nest NSW 1585 E:ttwsyd@ttw.com.au	Project MOSMAN HIGH SCHOOL	Sheet Subject FT-03:SNORKEL GA DRAWING	Scale @ A3 : AS SHOWN	Drawn By: AP	Eng: BH	Director: DVH
				Job No 201635				Drawing No 3000	Revision 1		
1	DRAFT	BH	DVH	27/07/21							
Rev	Description	Eng	Director	Date							

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100mm
90
80
70
60
50
40
30
20
10
0
A3



92MM STUD WALL @300MM CTRS (MAX)

80MM (MIN) INSULATION

89x6 SHS (MIN)

FIRE-RATED BOARD SEAL W/ FIRE-MASTIC INSIDE & OUT

6MM ALUMINIUM SHROUD

OUTSIDE

SOLID ALUMINIUM CLADDING DARK COLOUR

WEATHER SEAL & BACKING ROD

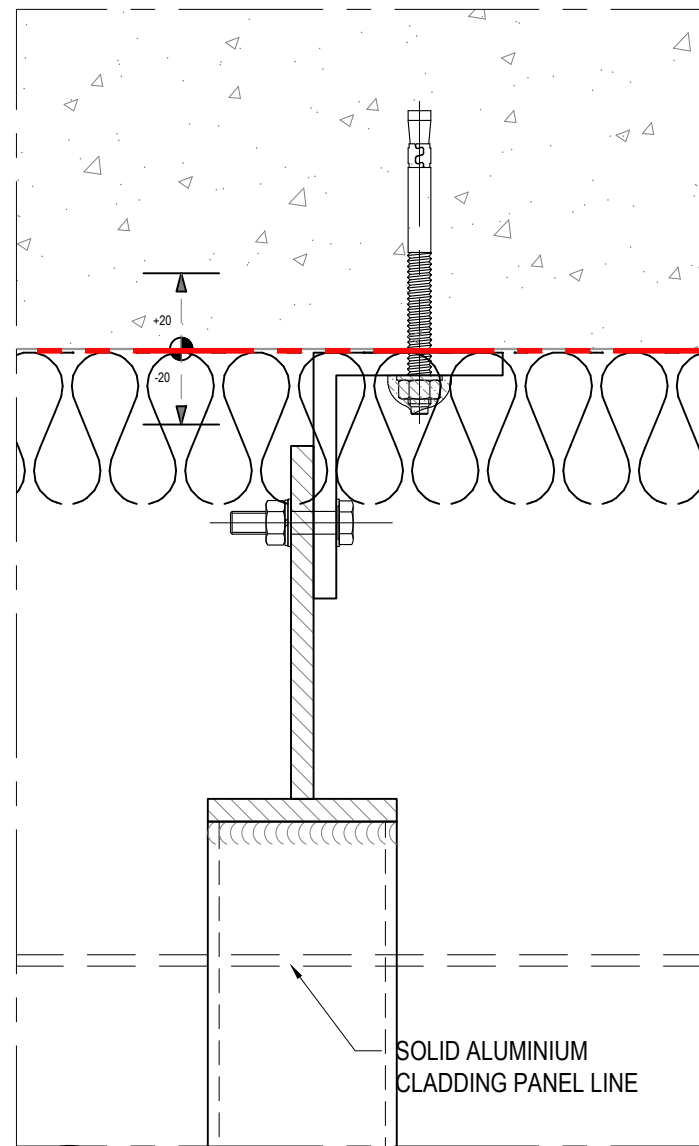
50 SHS TRUSS FRAME

3MM ALUMINIUM

THERMALLY BROKEN ALUMINIUM EXTRUDED SUBJAMB & JAMB WINDOW WALL PROFILE

17.52MM TOUGHENED GLASS

1 SLAB EDGE
- SCALE 1:5



2 BRACKET DETAIL
- SCALE 1:2

SOLID ALUMINIUM CLADDING PANEL LINE

1	DRAFT	BH	DVH	27/07/21
Rev	Description	Eng	Director	Date

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Project

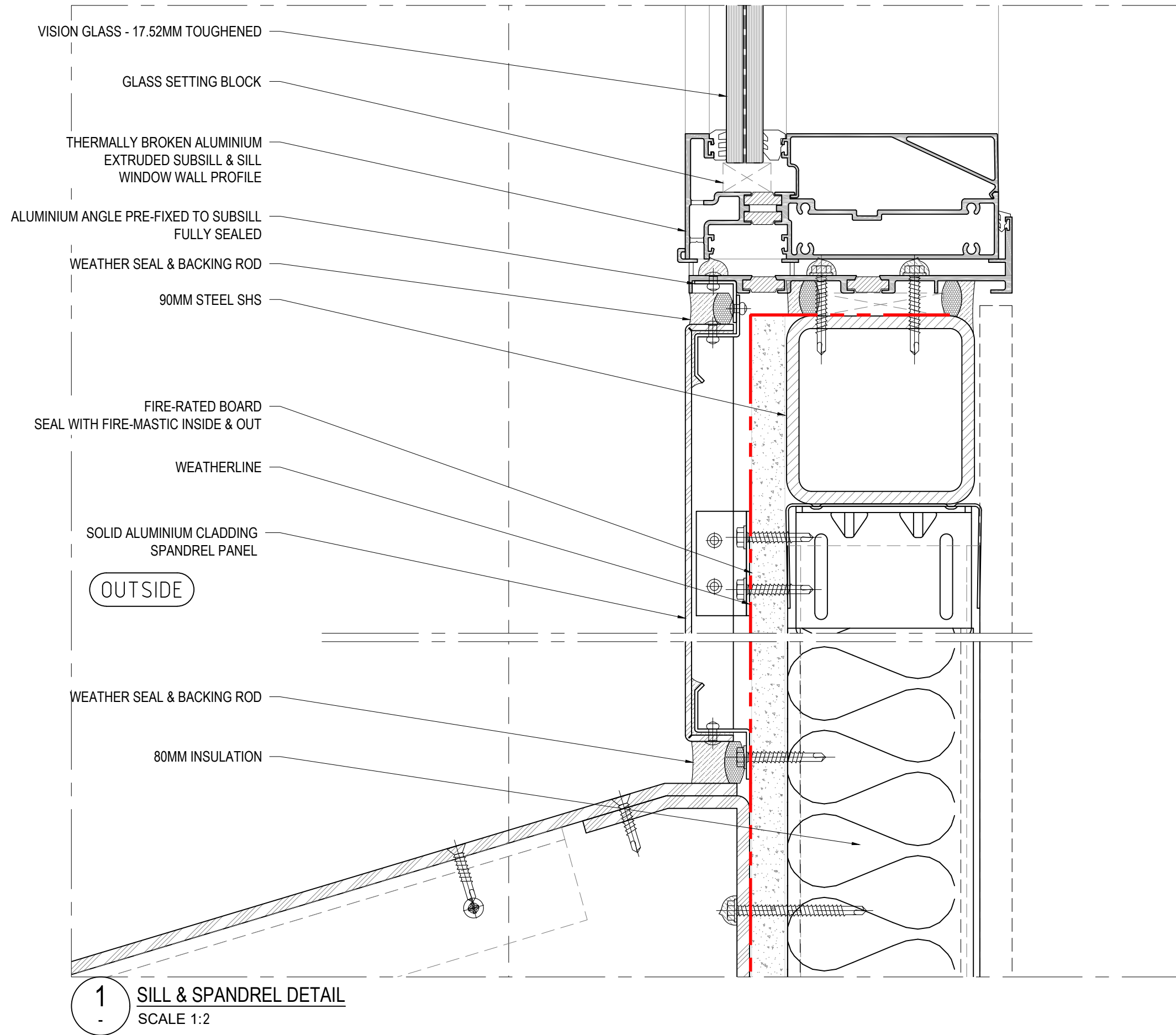
MOSMAN HIGH SCHOOL

Sheet Subject

FT-03: SLAB EDGE DETAIL

Scale @ A3 : 1:5	Drawn By: AP	Eng: BH	Director: DVH
Job No 201635	Drawing No 3001	Revision 1	

100mm
90
80
70
60
50
40
30
20
10
0
A3



1	DRAFT	BH	DVH	27/07/21
Rev	Description	Eng	Director	Date

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MOSMAN HIGH SCHOOL

Sheet Subject

FT-03: SILL & SPANDREL DETAIL

Scale @ A3 :
1:2

Drawn By:
AP

Eng:
BH

Director:
DVH

Job No

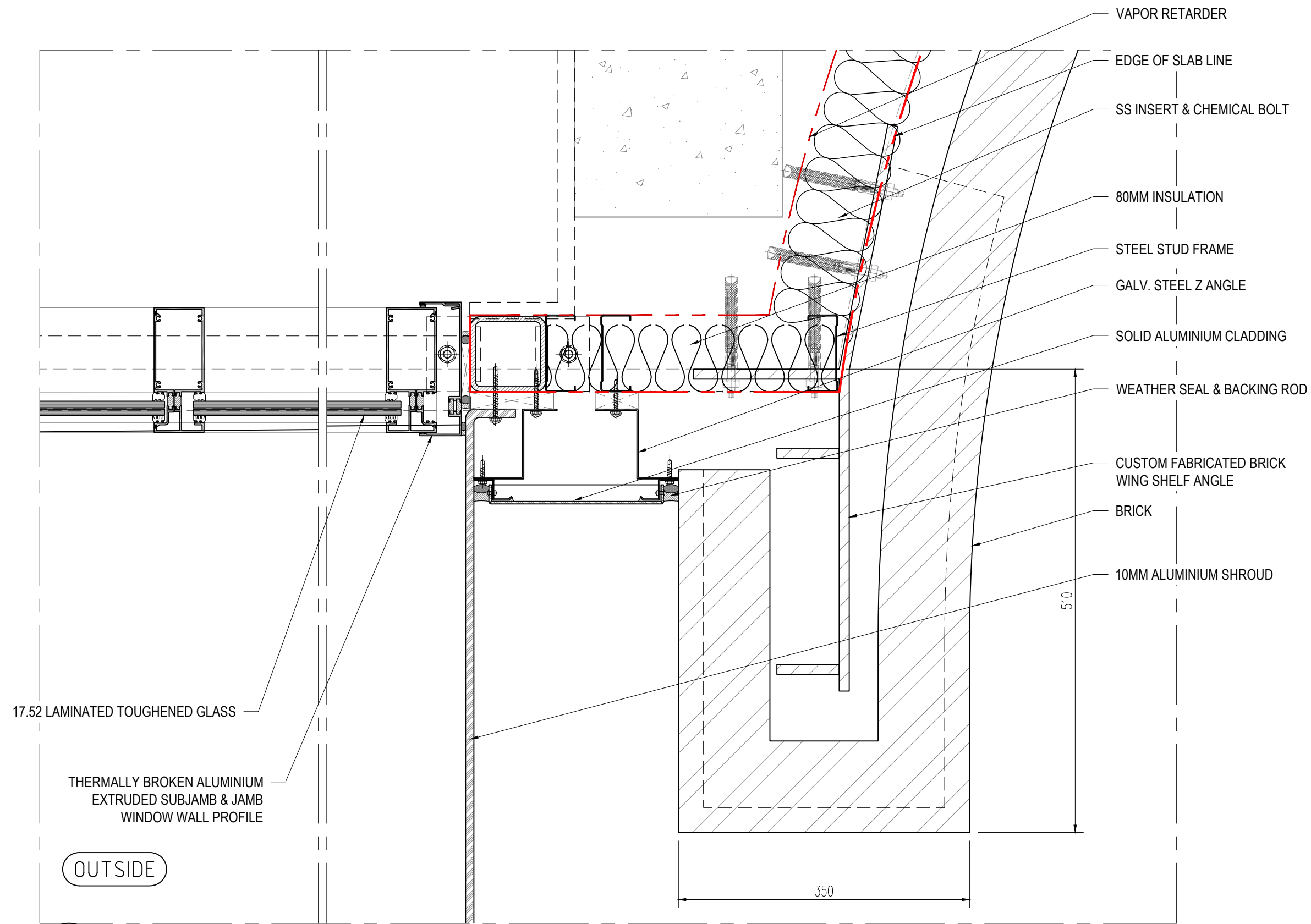
201635

Drawing No

3002

Revision

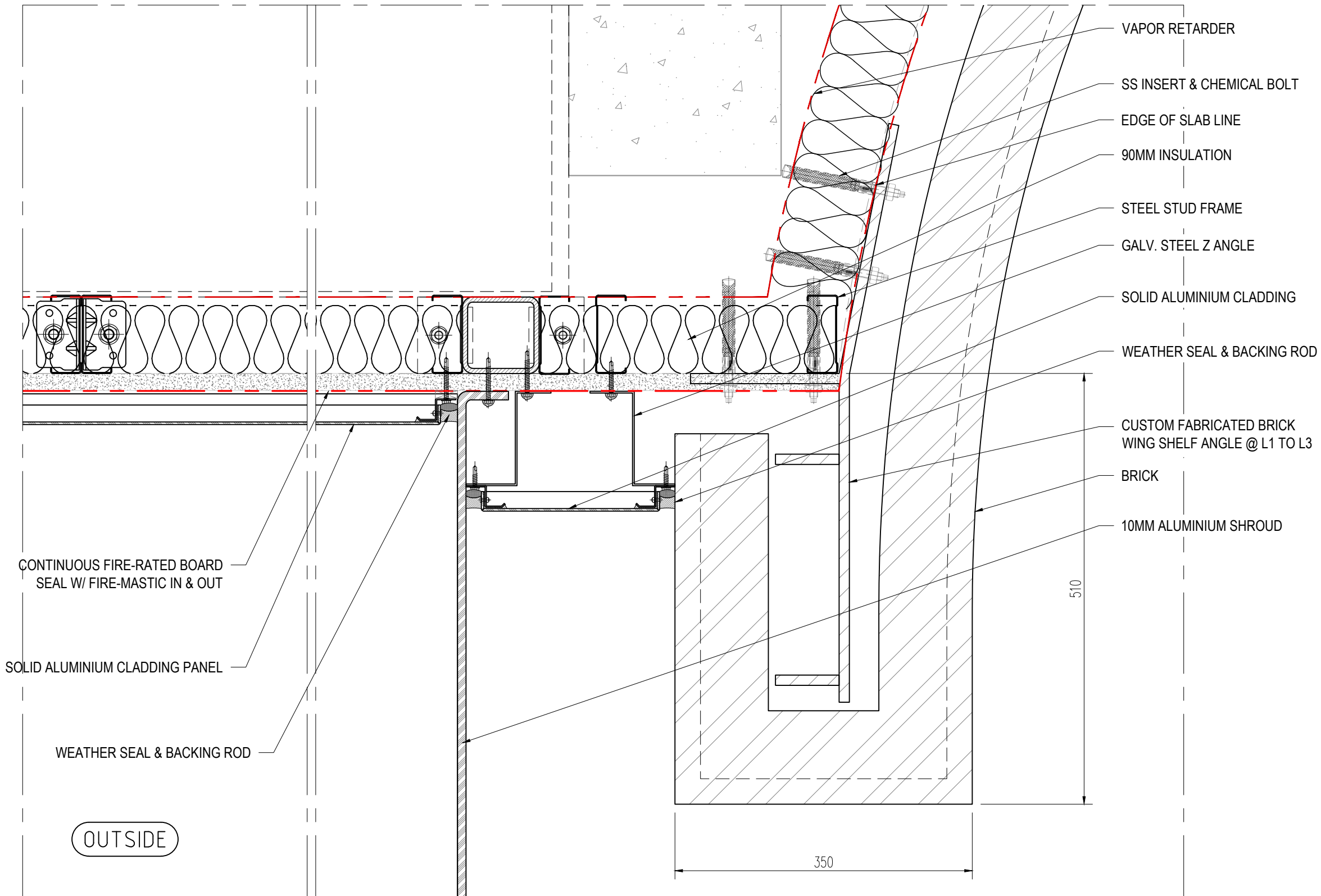
1



1 JAMB & MULLION
SCALE 1:5

		Facade Consultant Taylor Thomson Whitting +612 9439 7288 Level 6 / 73 Miller St, North Sydney NSW2060 PO Box 738 Crows Nest NSW 1585 E:ttwsyd@ttw.com.au	Project MOSMAN HIGH SCHOOL	Sheet Subject FT-03: JAMB & MULLION DETAIL @ VISION GLASS	Scale @ A3 : 1:5	Drawn By: AP	Eng: BH	Director: DVH
					Job No 201635	Drawing No 3003	Revision 1	
1	DRAFT				BH	DVH	27/07/21	
Rev	Description				Eng	Director	Date	

A3 100mm 90 80 70 60 50 40 30 20 10 0



1 JAMB & MULLION
- SCALE 1:5

1	DRAFT	BH	DVH	27/07/21
Rev	Description	Eng	Director	Date

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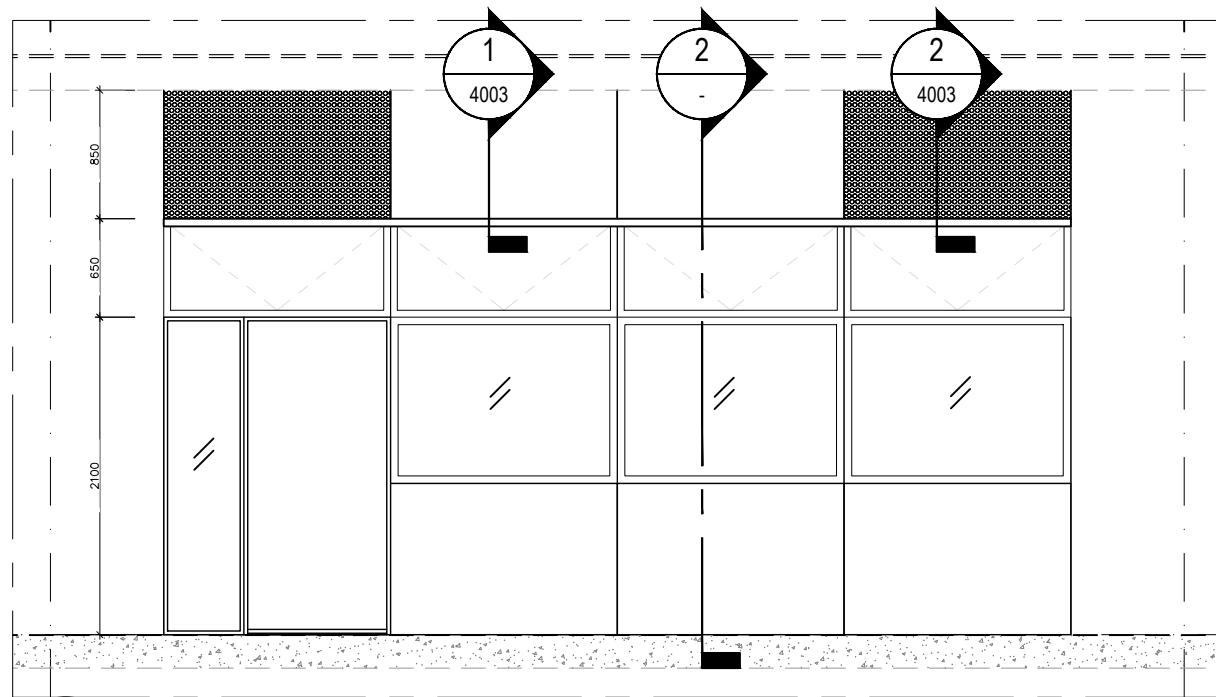
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MOSMAN HIGH SCHOOL

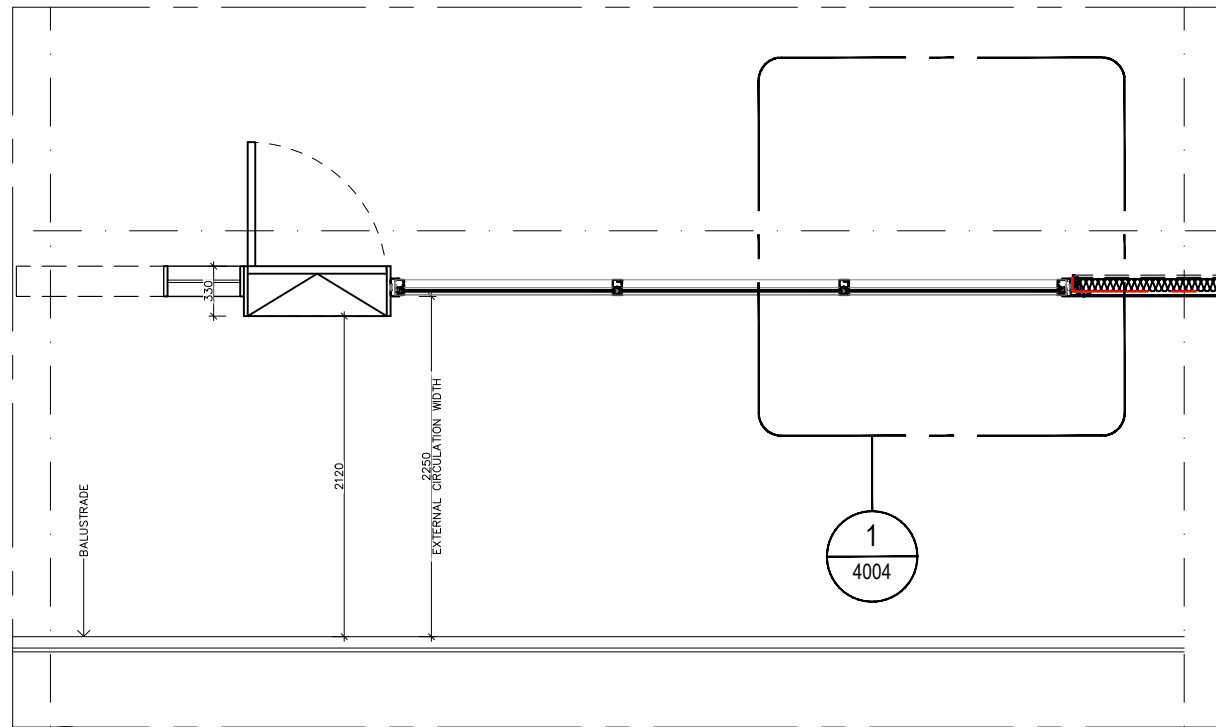
Sheet Subject

FT-03: JAMB & MULLION DETAIL
@ SPANDREL

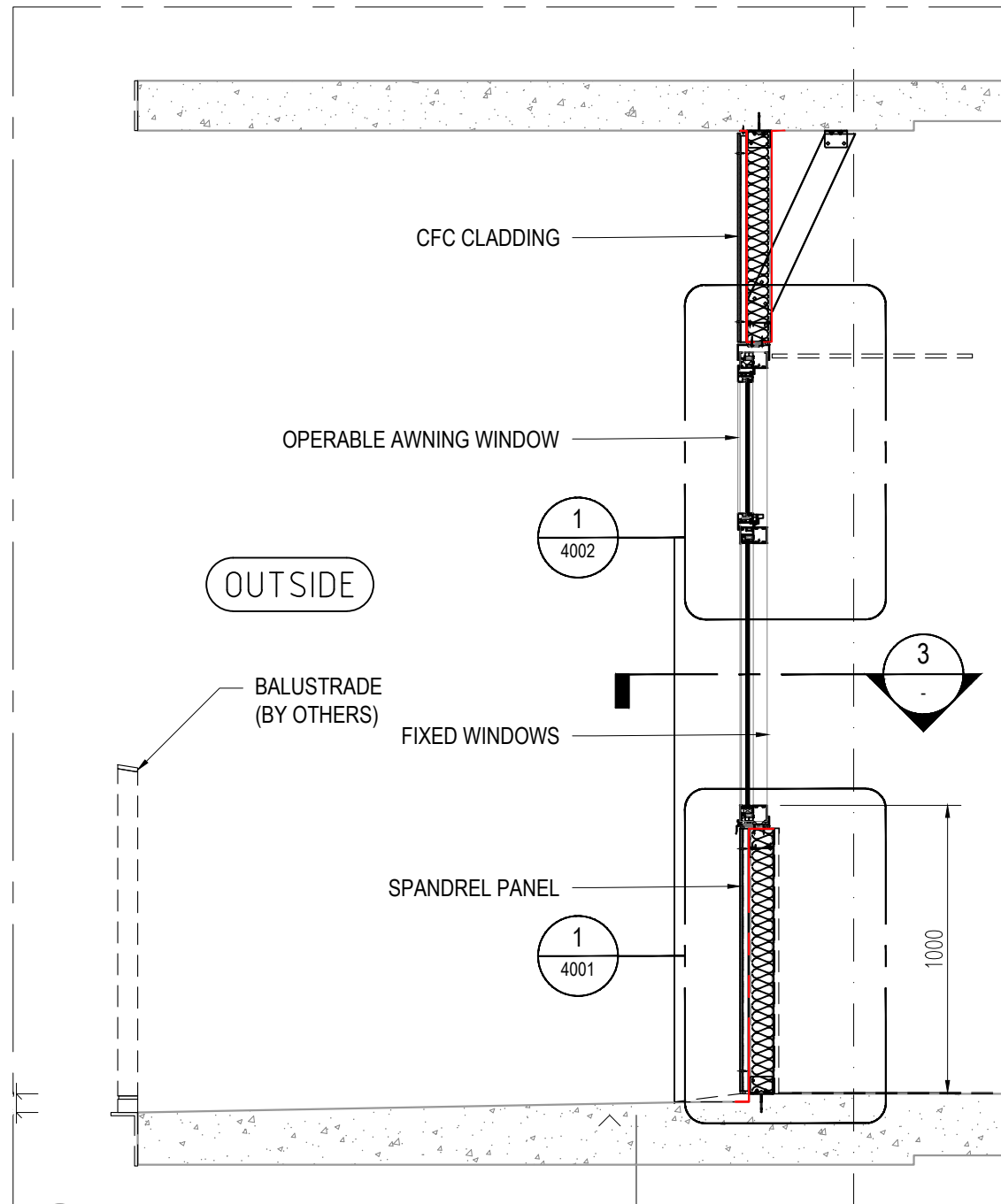
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Job No 201635	Drawing No 3004	Revision 1	



1 FT-04: PARTIAL ELEVATION
SCALE 1:50



3 FT-04: HORIZ SECTION
SCALE 1:50



2 FT-04: VERTICAL SECTION
SCALE 1:25

Rev	Description	Eng	Director	Date
1	DRAFT	BH	DVH	27/07/21

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Project

MOSMAN HIGH SCHOOL

Sheet Subject

FT-04: CLASSROOM FACADE
GA DRAWING

Scale @ A3 :
AS SHOWN

Drawn By:
AP

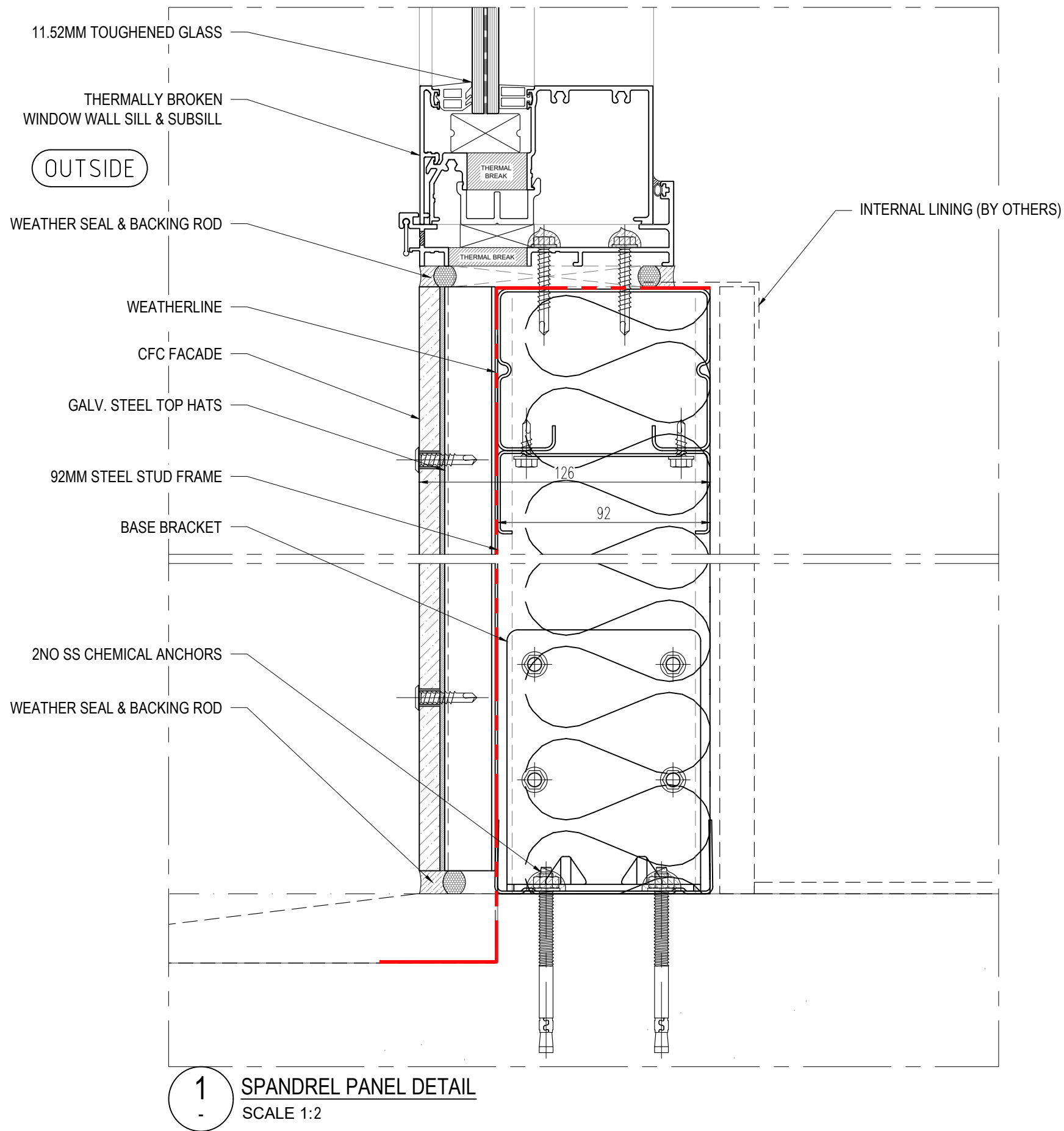
Eng:
BH

Director:
DVH

Job No
201635

Drawing No
4000

Revision
1



1	DRAFT	BH	DVH	27/07/21
Rev	Description	Eng	Director	Date

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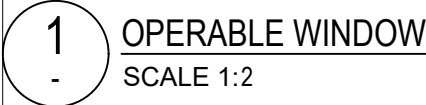
Project

MOSMAN HIGH SCHOOL

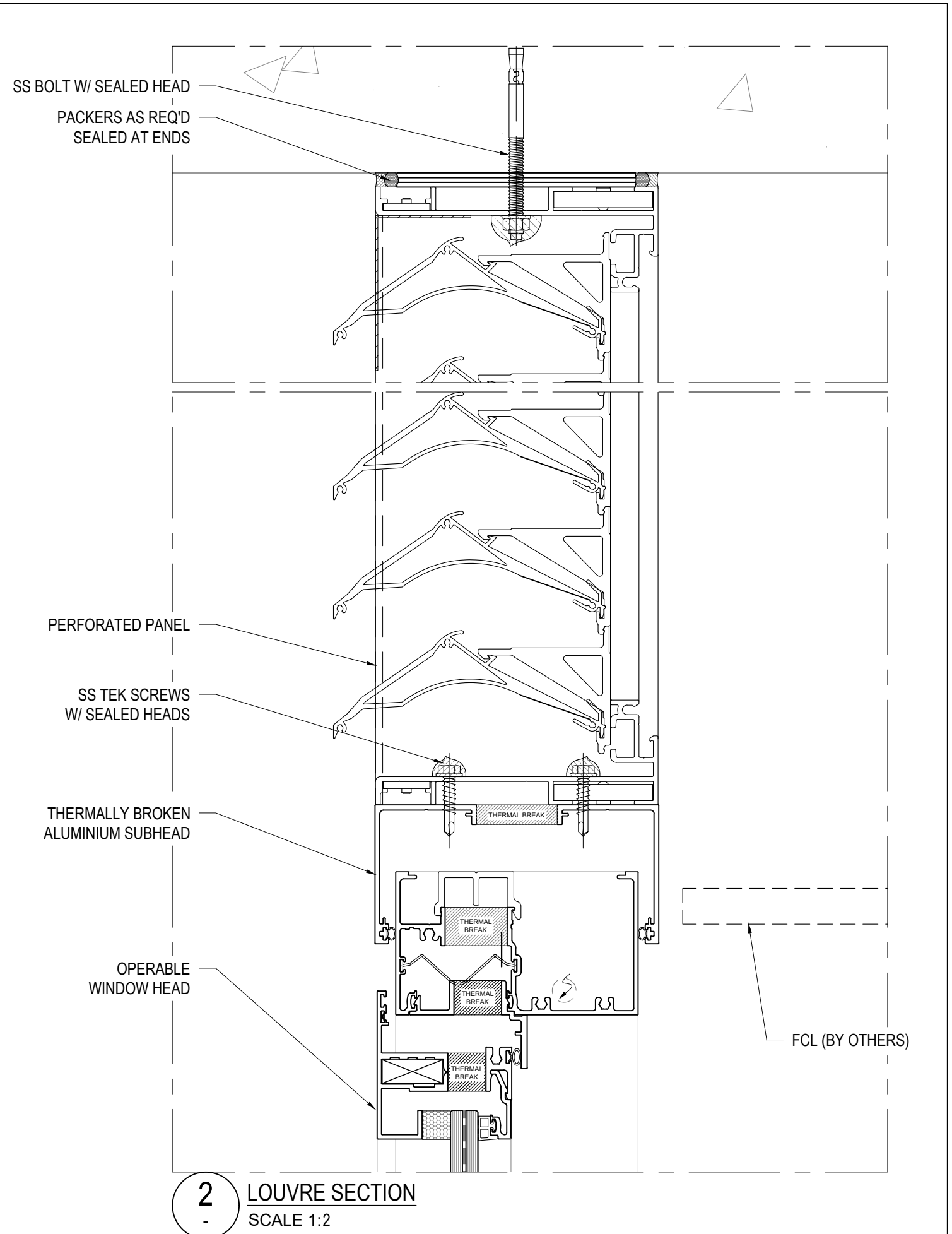
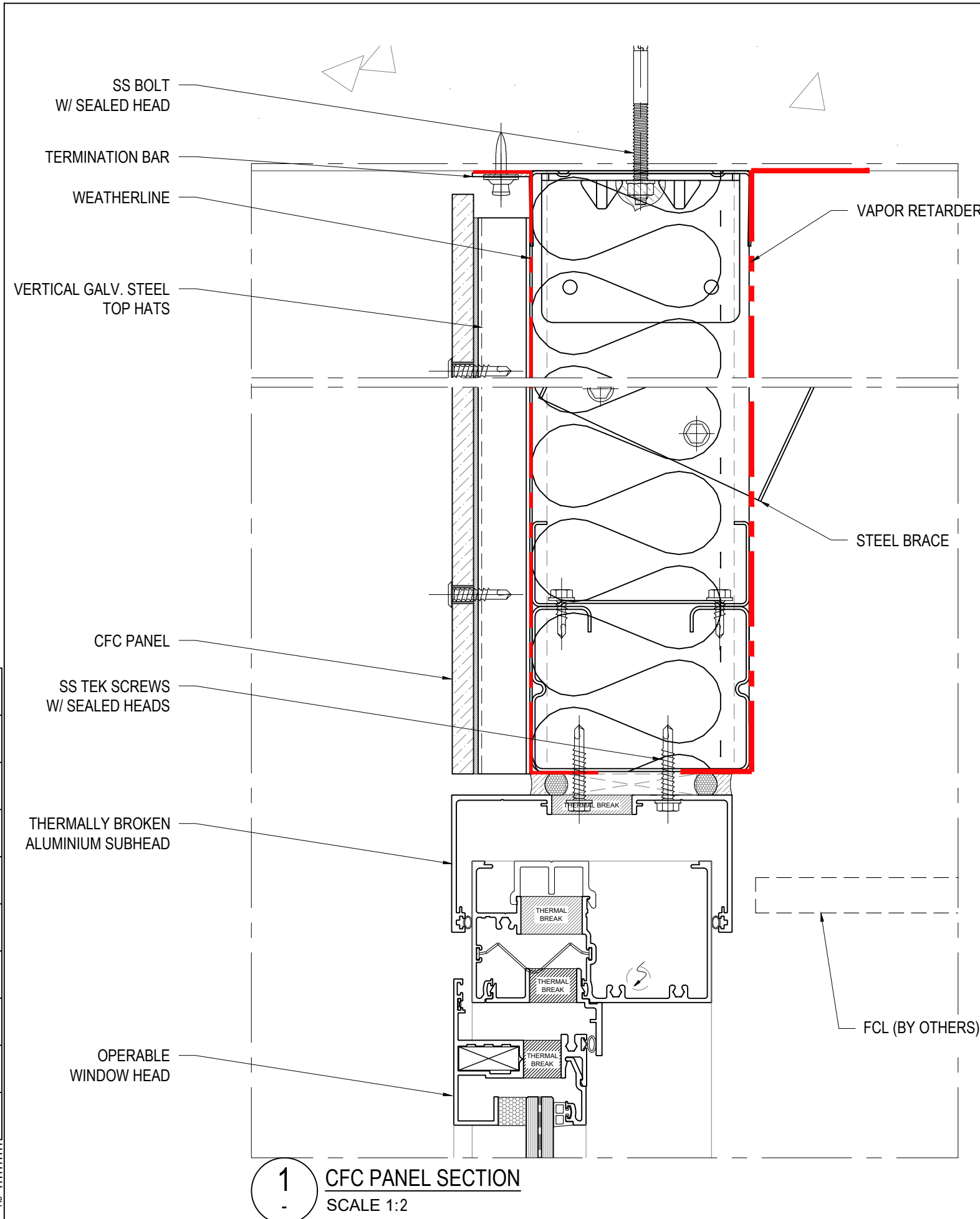
Sheet Subject

FT-04: CLASSROOM FACADE
SPANDRE DETAIL

Scale @ A3 : 1:2	Drawn By: AP	Eng: BH	Director: DVH
Job No 201635	Drawing No 4001	Revision 1	

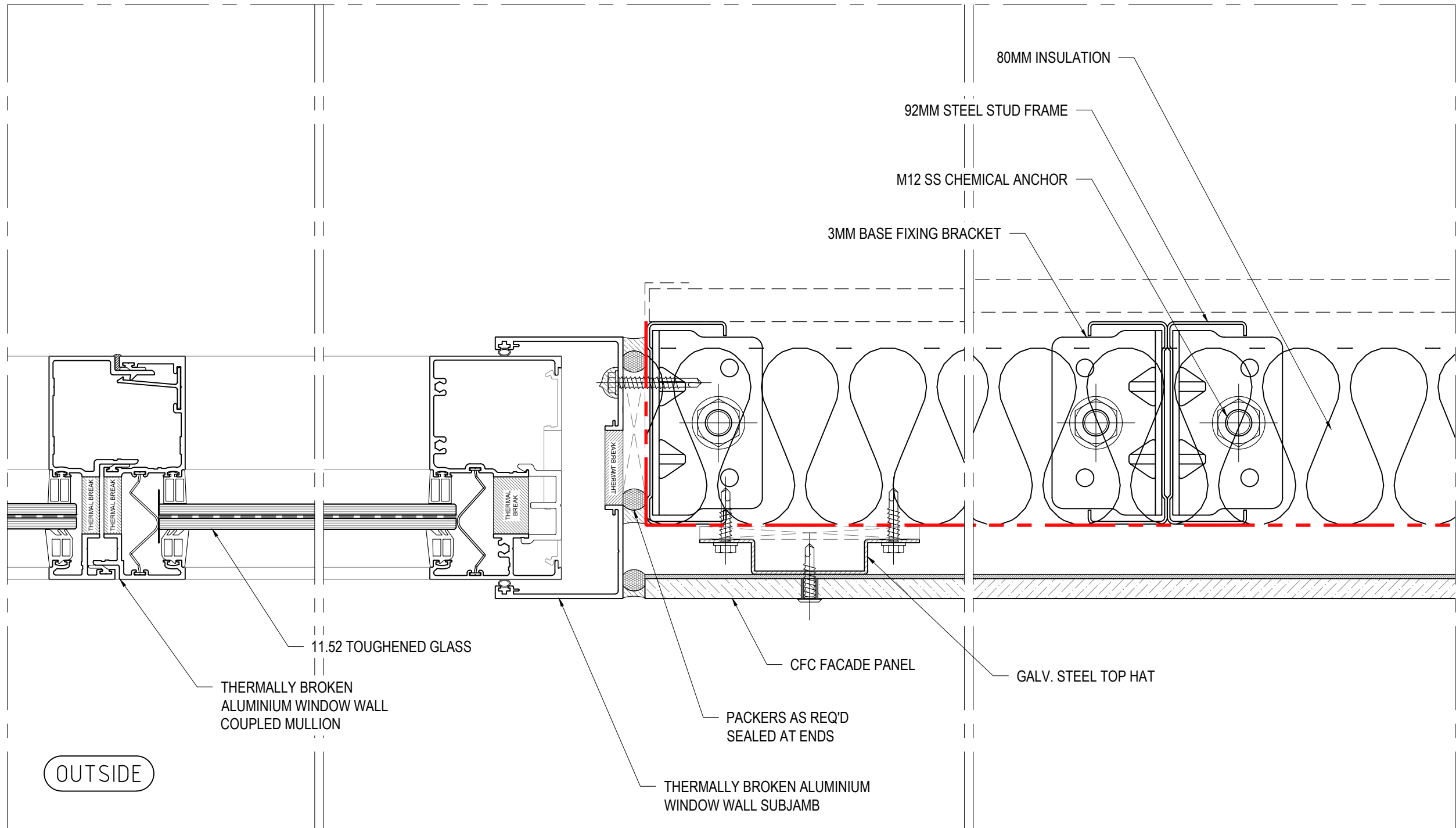


					Facade Consultant TTW Taylor Thomson Whitting +612 9439 7288 Level 6 / 73 Miller St, North Sydney NSW2060 PO Box 738 Crows Nest NSW 1585 E:ttwsyd@ttw.com.au	Project MOSMAN HIGH SCHOOL	Sheet Subject FT-04: CLASSROOM FACADE OPERABLE WINDOW DETAIL	Scale @ A3 : 1:2	Drawn By: AP	Eng: BH	Director: DVH
								Job No 201635	Drawing No 4002		Revision 1
1	DRAFT	BH	DVH	27/07/21							
Rev	Description	Eng	Director	Date							



					Facade Consultant TTW Taylor Thomson Whitting +612 9439 7288 Level 6 / 73 Miller St, North Sydney NSW2060 PO Box 738 Crows Nest NSW 1585 E:ttwsyd@ttw.com.au	Project MOSMAN HIGH SCHOOL	Sheet Subject FT-04: CLASSROOM FACADE CFC PANEL, LOUVRE HEAD SECTION	Scale @ A3 : 1:2		Drawn By: AP	Eng: BH	Director: DVH
1 DRAFT BH DVH 27/07/21												
Rev	Description	Eng	Director	Date								

A3 100mm 90 80 70 60 50 40 30 20 10 0



1	DRAFT	BH	DVH	27/07/21
Rev	Description	Eng	Director	Date

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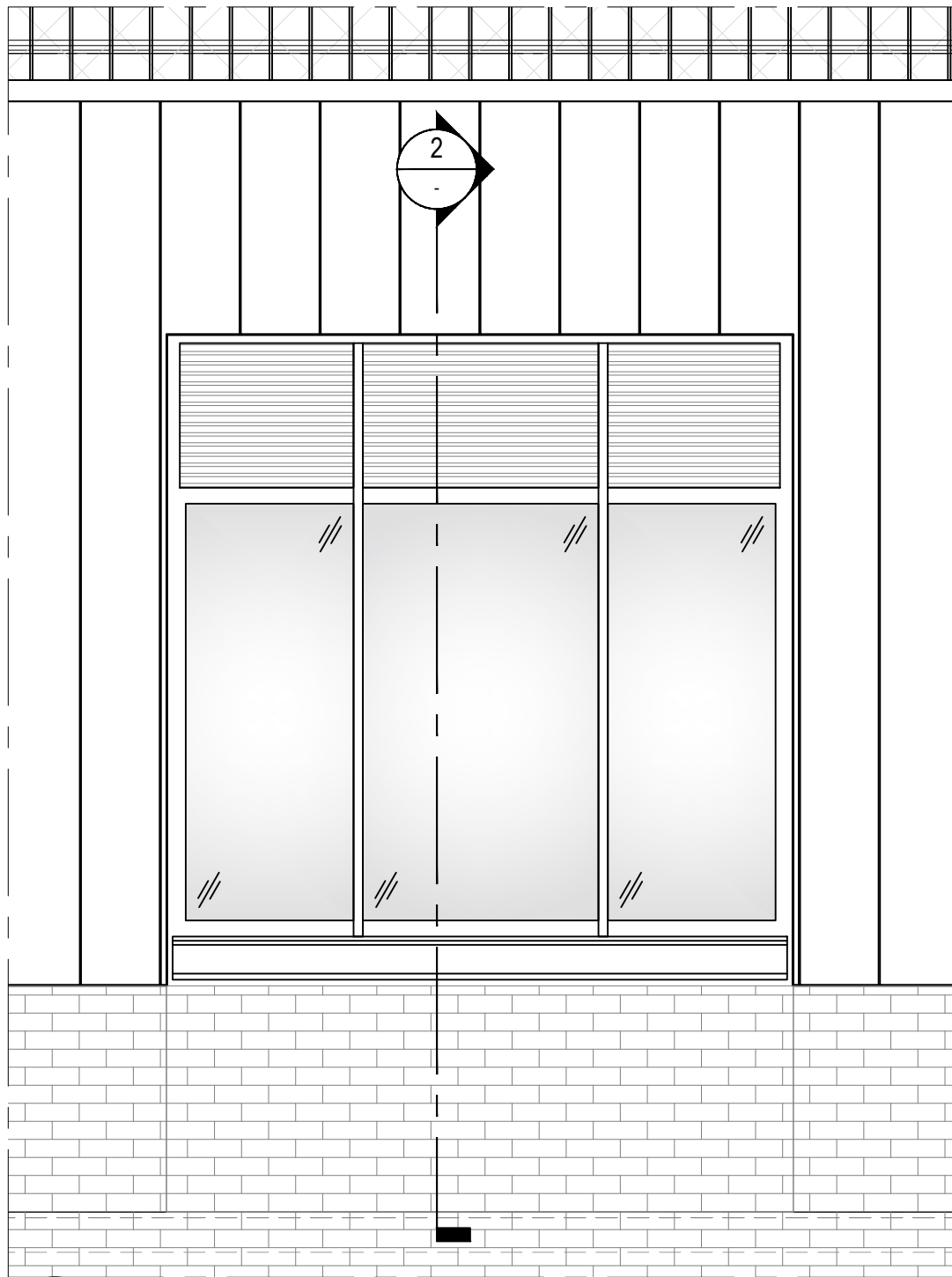
Project

MOSMAN HIGH SCHOOL

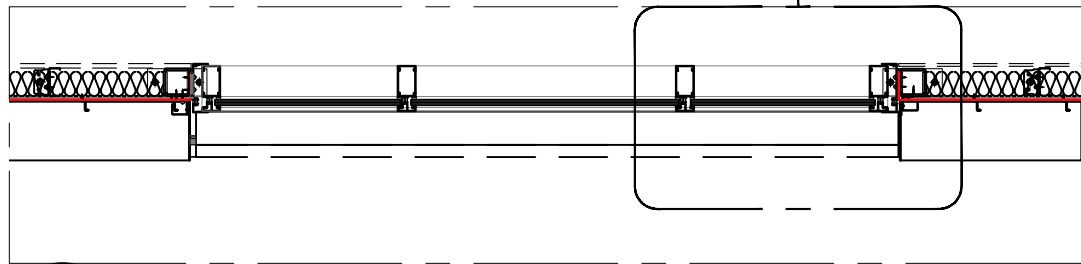
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FT-04: CLASSROOM FACADE JAMB & MULLION DETAILS

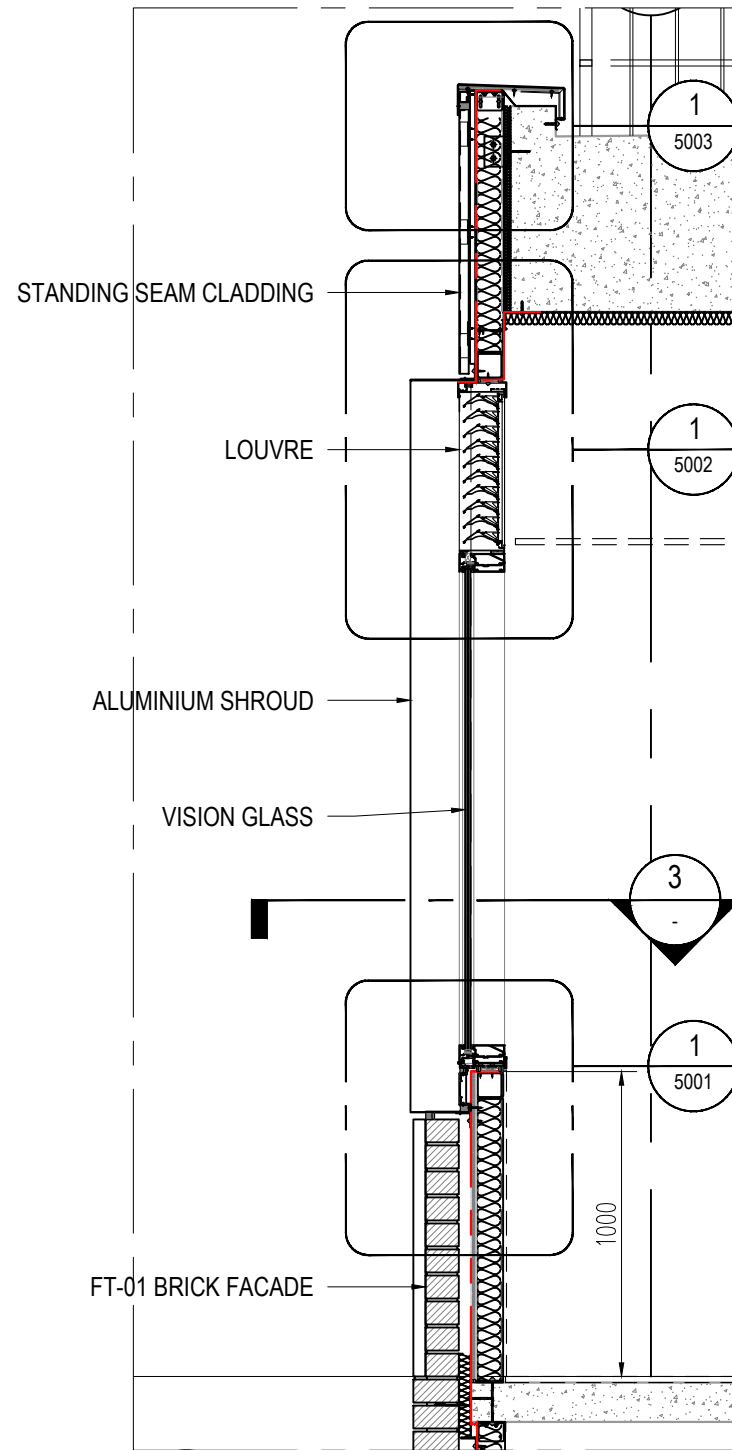
Scale @ A3 : 1:2	Drawn By: AP	Eng: BH	Director: DVH
Job No 201635	Drawing No 4004	Revision 1	



1 FT-05: PARTIAL ELEVATION
SCALE 1:25



3 FT-05: PARTIAL ELEVATION
SCALE 1:25



2 FT-05: SECTION
SCALE 1:25

1	DRAFT	BH	DVH	27/07/21
Rev	Description	Eng	Director	Date

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Project

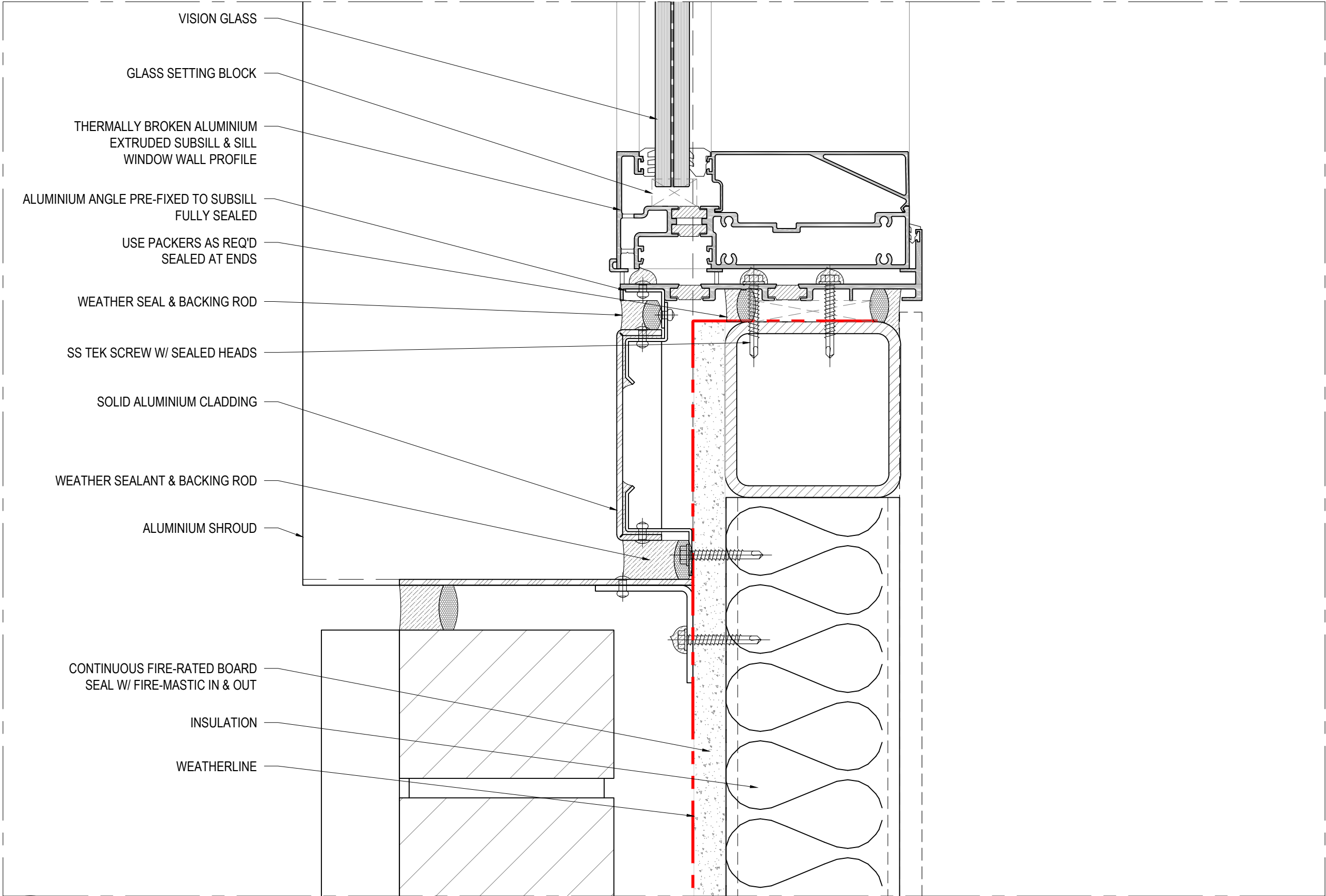
MOSMAN HIGH SCHOOL

Sheet Subject

FT-05: LIBRARY FACADE
GA DRAWING

Scale @ A3 : 1:25	Drawn By: AP	Eng: BH	Director: DVH
Job No 201635	Drawing No 5000	Revision 1	

A3 100mm 90 80 70 60 50 40 30 20 10 0



1 SILL DETAIL
- SCALE 1:2

1	DRAFT	BH	DVH	27/07/21
Rev	Description	Eng	Director	Date

Facade Consultant

TTW

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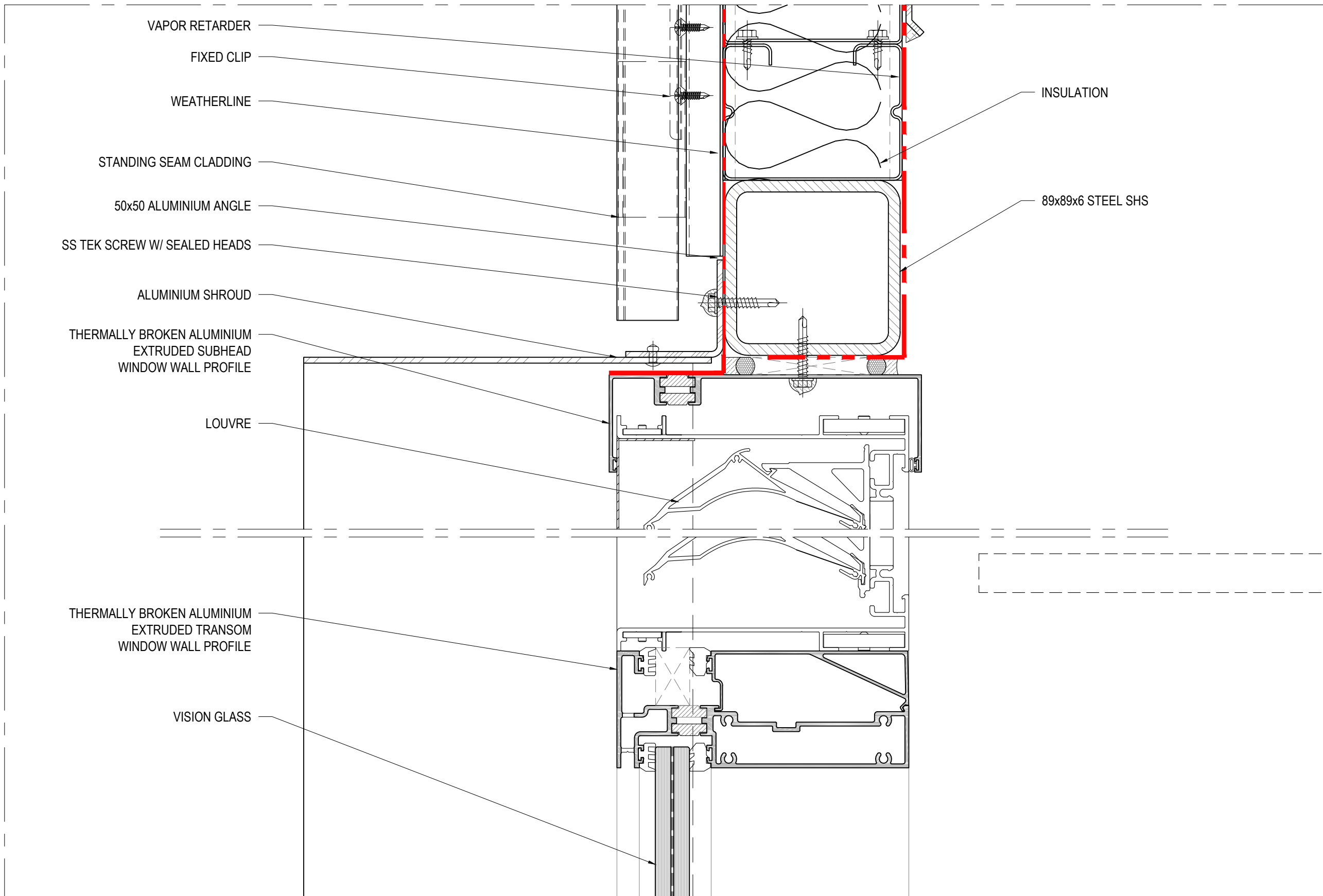
Project

MOSMAN HIGH SCHOOL

Sheet Subject

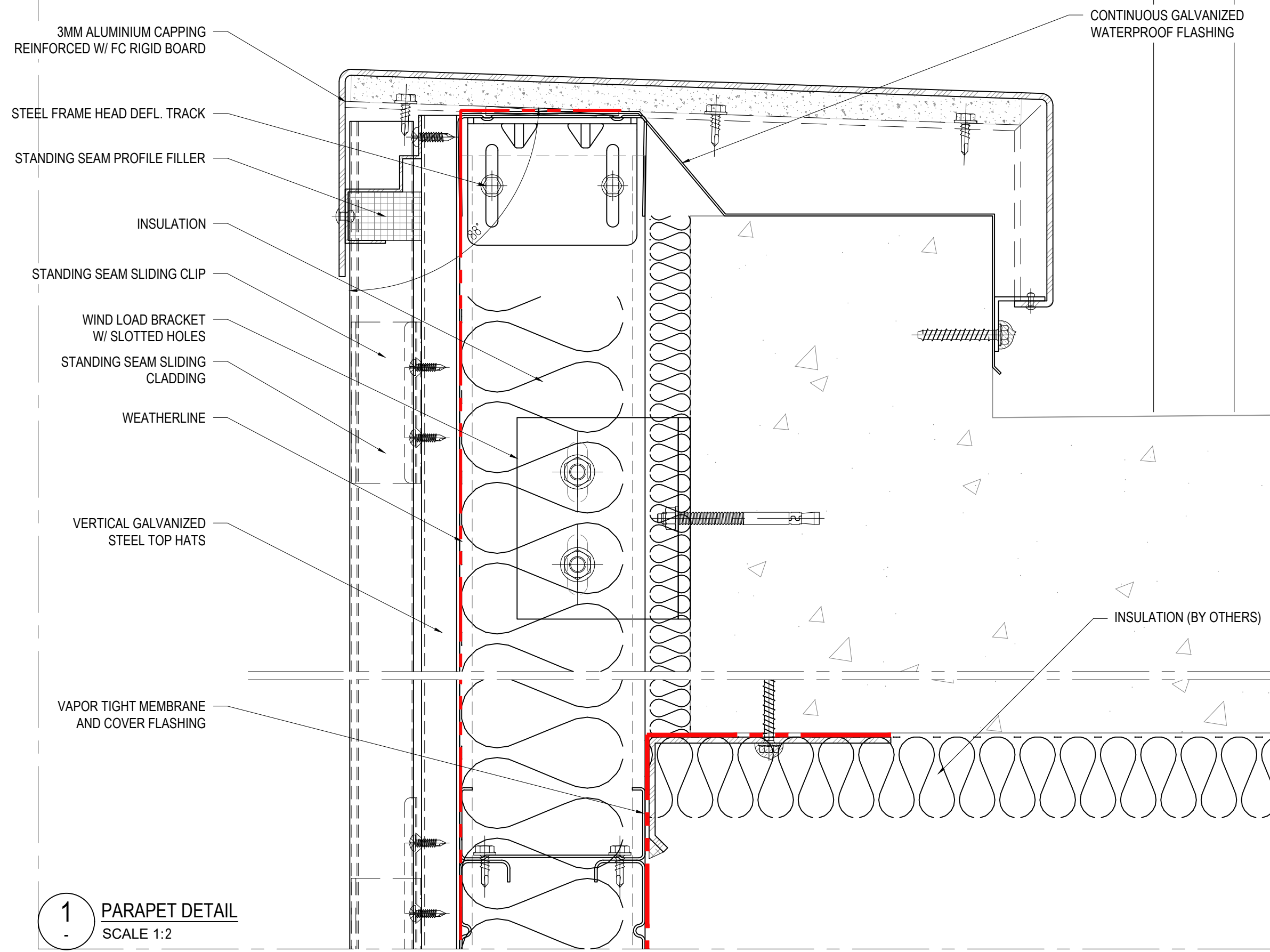
FT-05: LIBRARY FACADE
SILL DETAIL

Scale @ A3 : 1:2	Drawn By: AP	Eng: BH	Director: DVH
Job No 201635	Drawing No 5001	Revision 1	

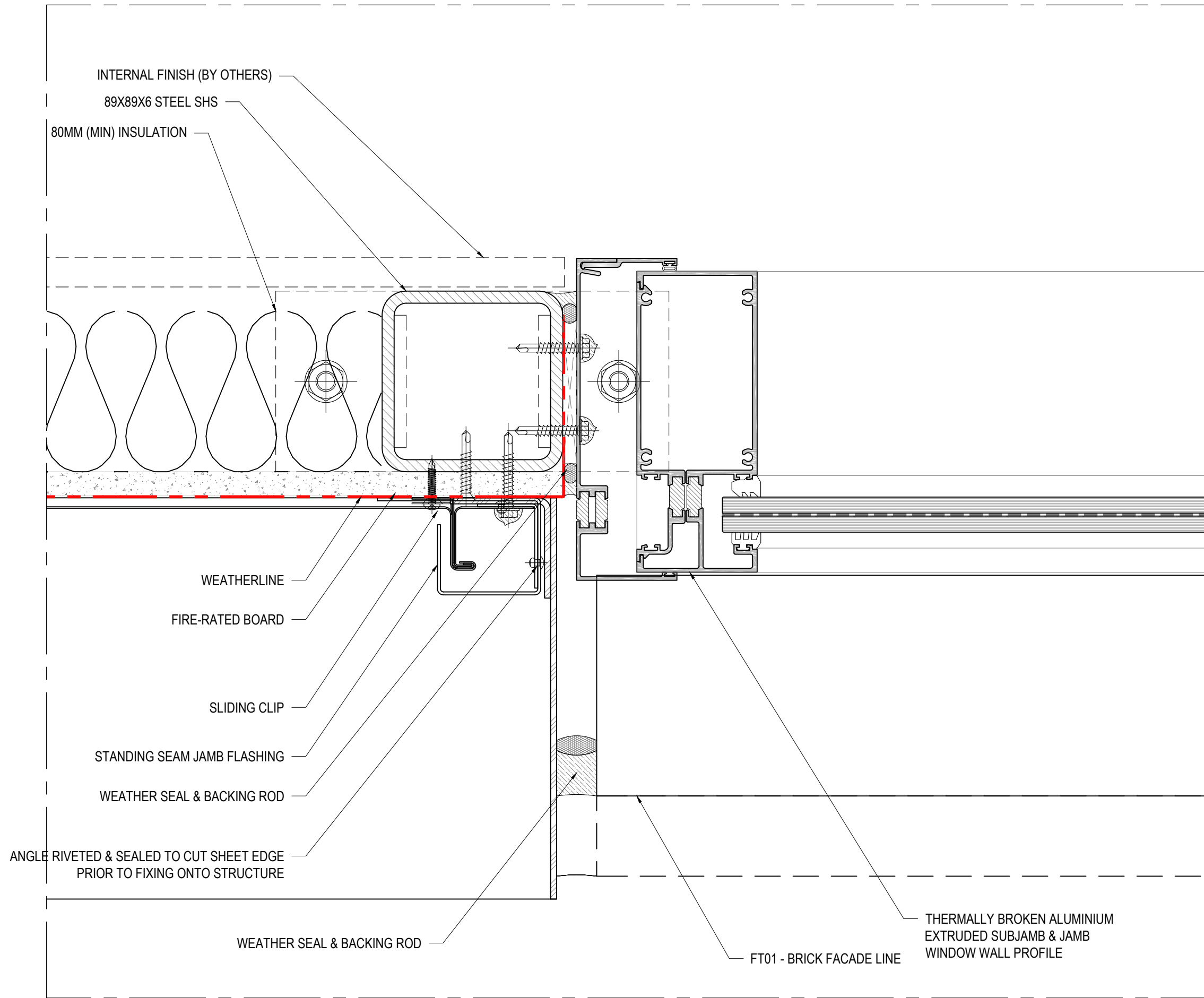


1 HEAD DETAIL
SCALE 1:2

					Facade Consultant  +612 9439 7288 Level 6 / 73 Miller St, North Sydney NSW2060 PO Box 738 Crows Nest NSW 1585 E:ttwsyd@ttw.com.au	Project MOSMAN HIGH SCHOOL	Sheet Subject FT-05: LIBRARY FACADE HEAD / LOUVRE DETAIL	Scale @ A3 : 1:2		Drawn By: AP	Eng: BH	Director: DVH	
								Job No 201635		Drawing No 5002		Revision 1	
1	DRAFT		BH	DVH	27/07/21								
Rev	Description		Eng	Director	Date								



					Facade Consultant TTW Taylor Thomson Whitting +612 9439 7288 Level 6 / 73 Miller St, North Sydney NSW2060 PO Box 738 Crows Nest NSW 1585 E:ttwsyd@ttw.com.au	Project MOSMAN HIGH SCHOOL	Sheet Subject FT-05: LIBRARY FACADE PARAPET	Scale @ A3 : 1:2		Drawn By: AP	Eng: BH	Director: DVH
1 DRAFT BH DVH 27/07/21												
Rev	Description	Eng	Director	Date								



1 JAMB DETAIL
- SCALE 1:2

Rev	Description	Eng	Director	Date
1	DRAFT	BH	DVH	27/07/21

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Project

MOSMAN HIGH SCHOOL

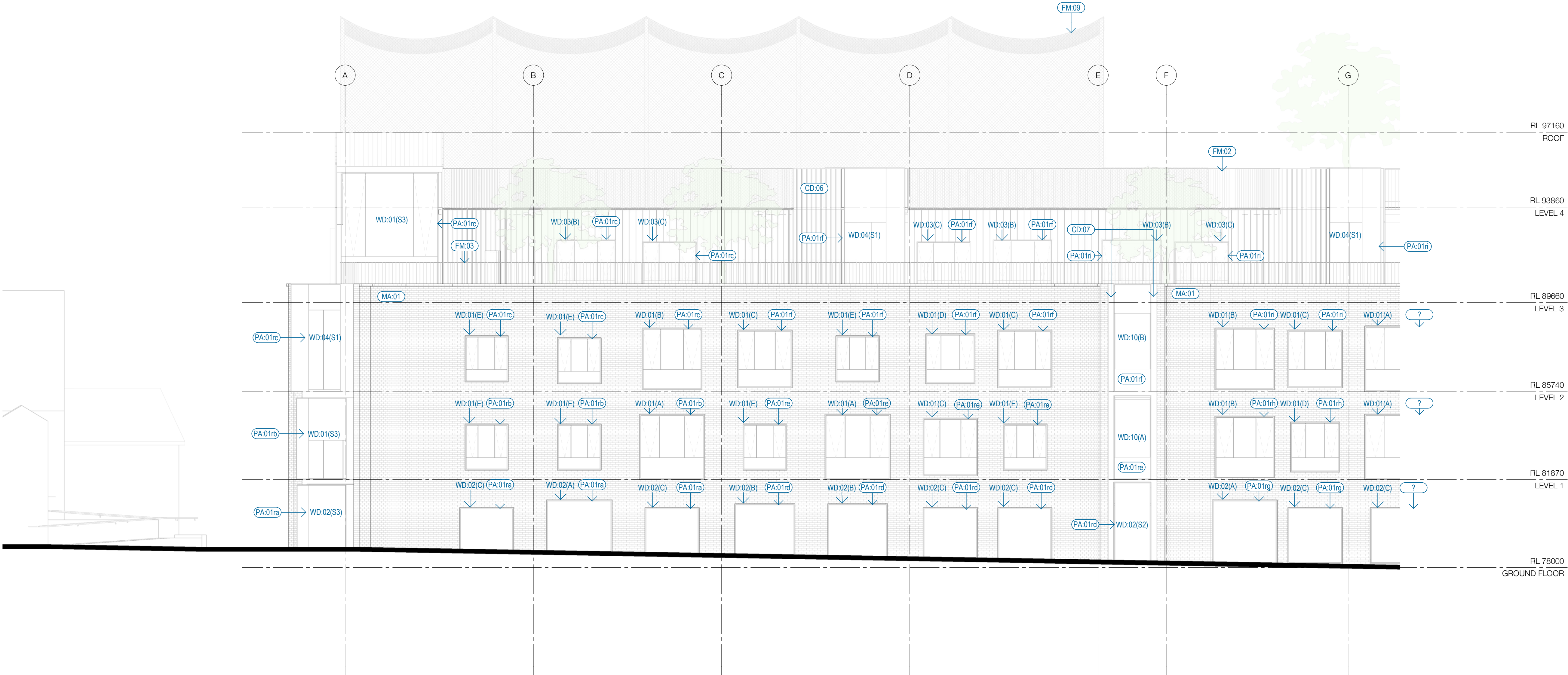
Sheet Subject

FT-05: LIBRARY FACADE
JAMB DETAIL

Scale @ A3 : 1:2	Drawn By: AP	Eng: BH	Director: DVH
Job No 201635	Drawing No 5004	Revision 1	

#	Status	Description	Date
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Notes
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Contractor must verify all dimensions on site before commencing
work or preparing shop drawings.
Do not scale drawings.



Project
MOSMAN HIGH SCHOOL

Client
SCHOOL INFRASTRUCTURE NSW

Issue

MULTIPLEX
W-B™
WOODS BAGOT

Project number
121468

Size check
25mm

Checked
Checker

Approved
Approver

Sheet size
A1

Scale
1 : 100

Sheet title

ELEVATION - EAST - ZONE 1

Sheet number **16-G-A-002** Revision

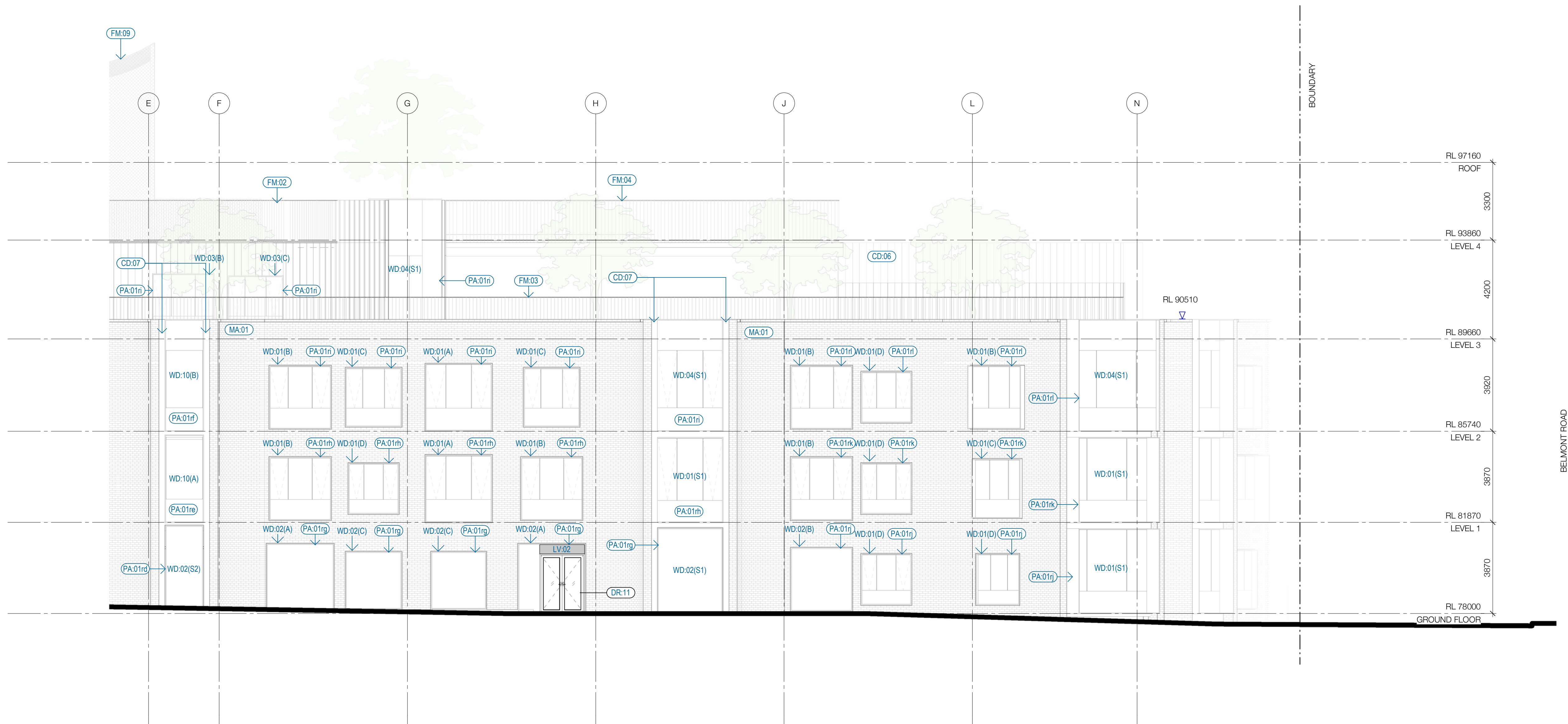
Status

Notes

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Do not scale drawings.



Project
MOSMAN HIGH SCHOOL

Client
SCHOOL INFRASTRUCTURE NSW

Issuer

MULTIPLEX

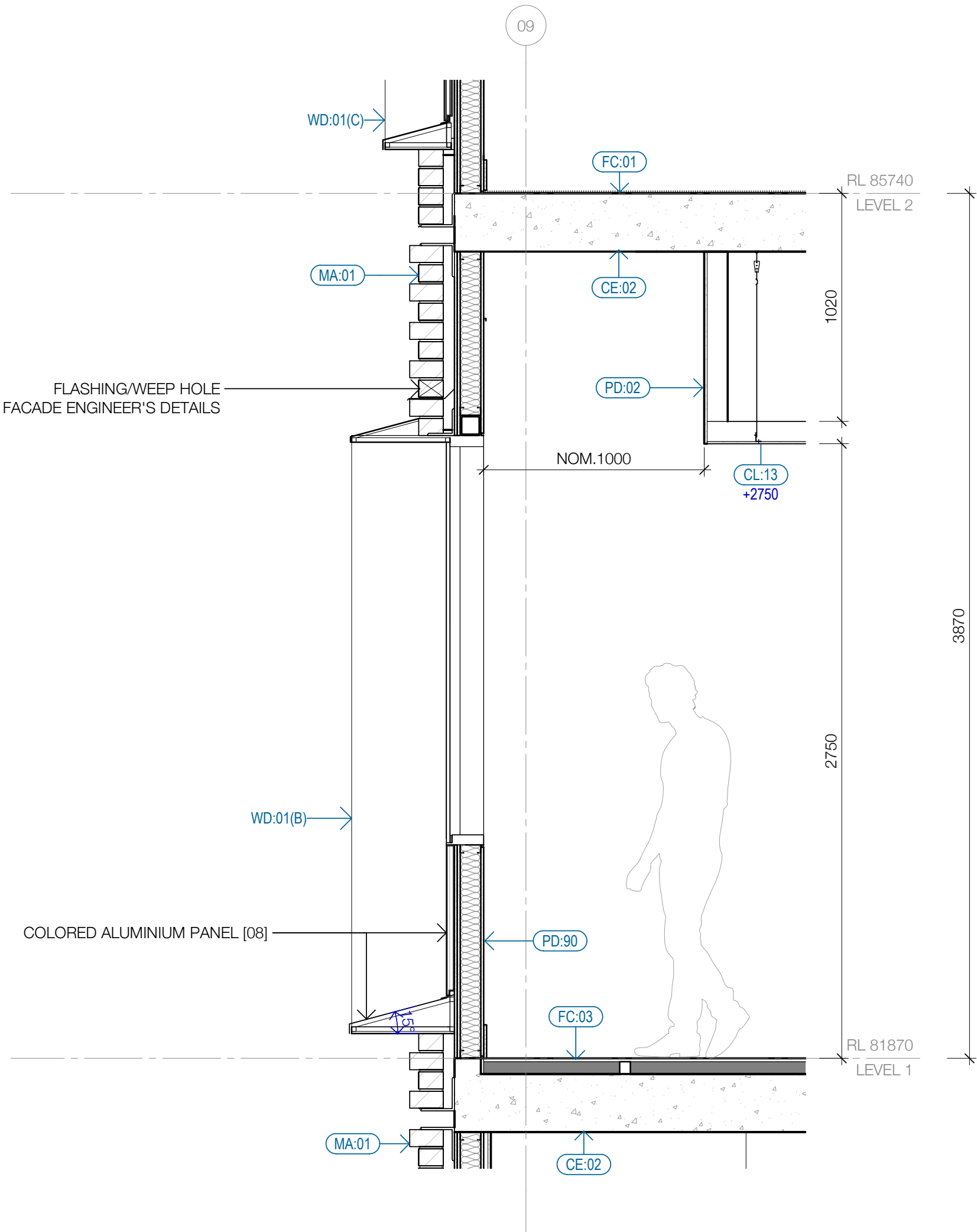
W-B™
WOODS BAGOT

Project number	Size check	25mm	Scale
121468	25mm		
Checked	Approved	Sheet size	Scale
Checker	Approver	A1	1 : 100

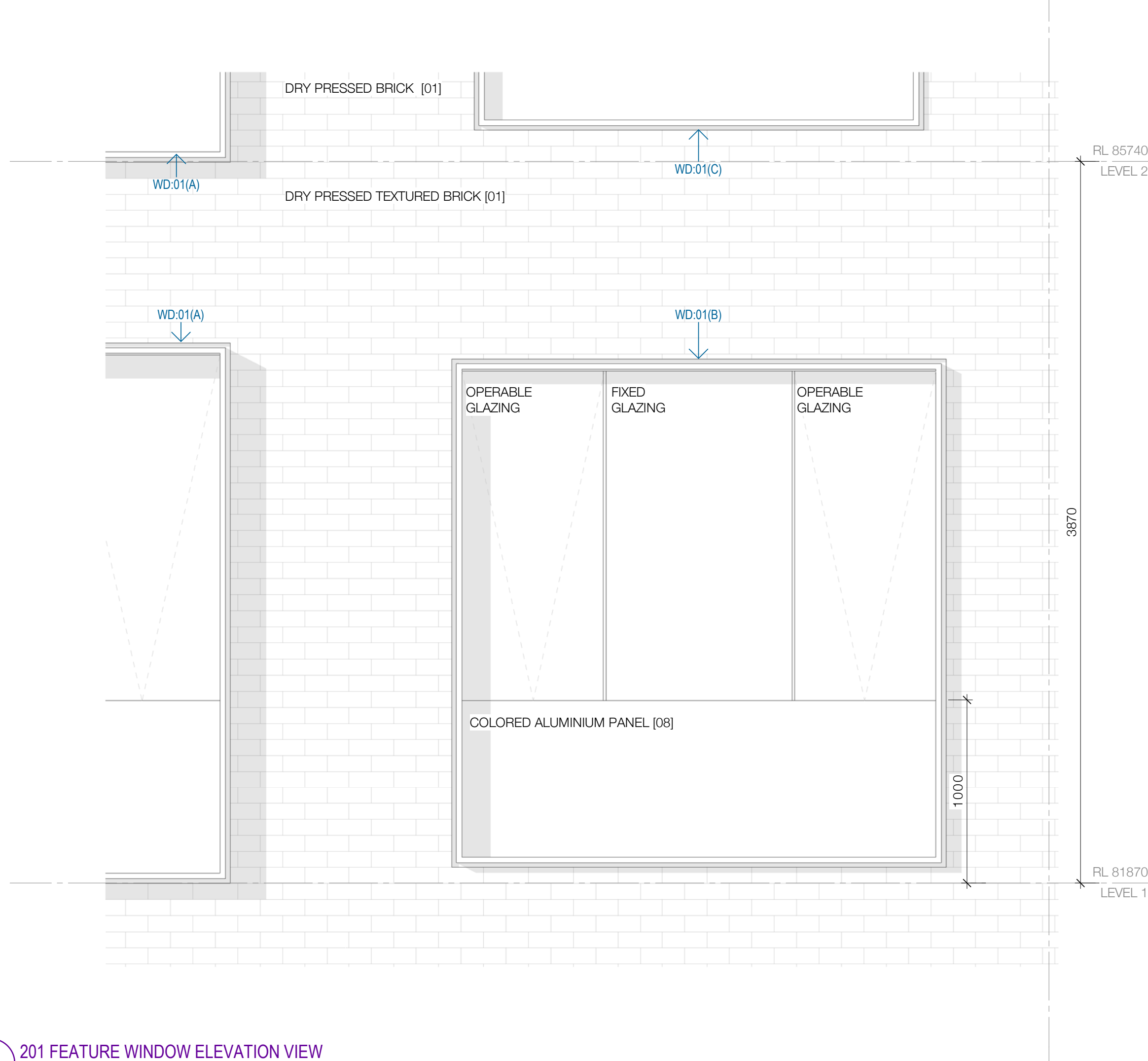
Sheet title

ELEVATION - EAST - ZONE 2

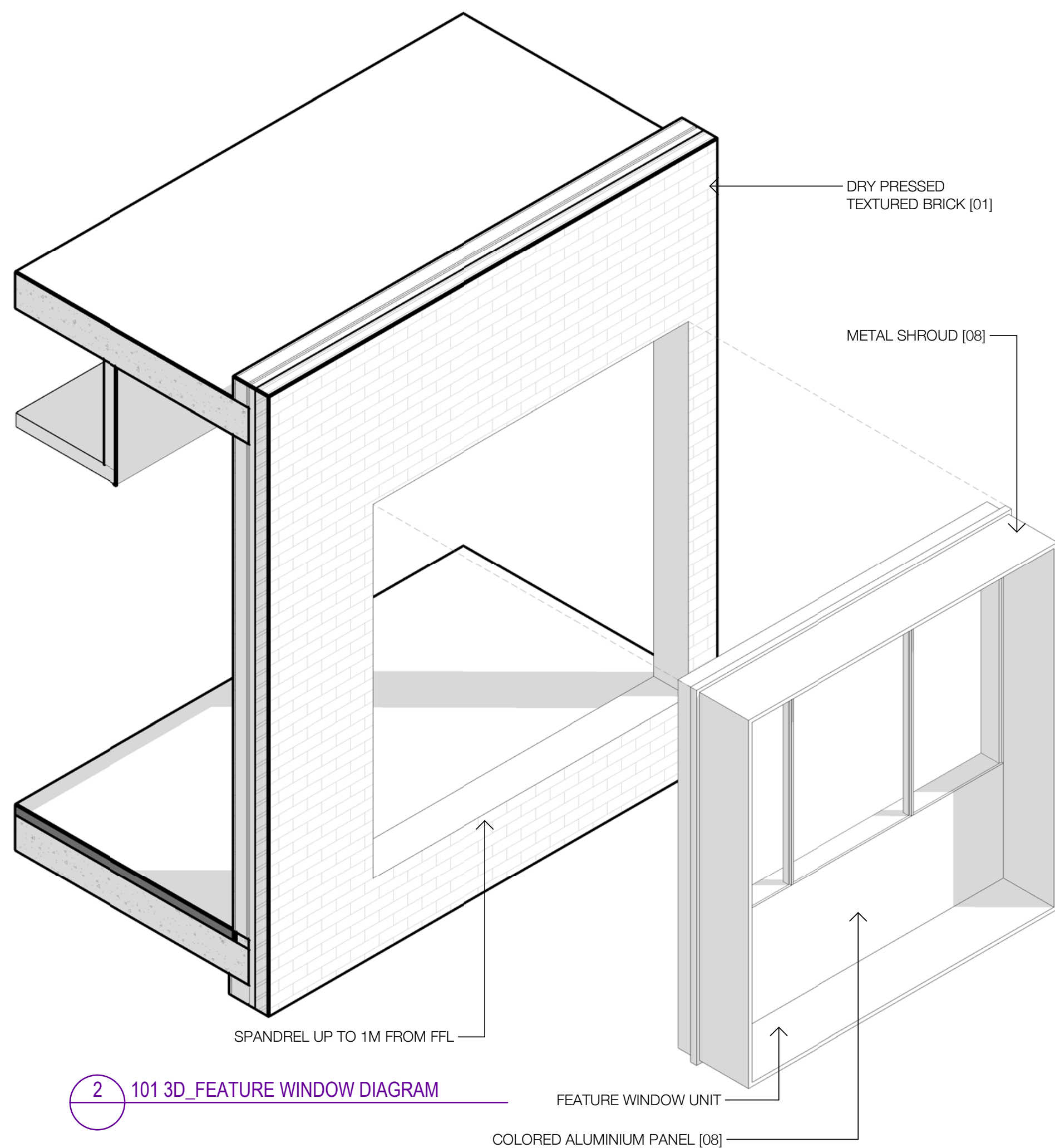
Sheet number	Revision
16-G-A-003	
Status	



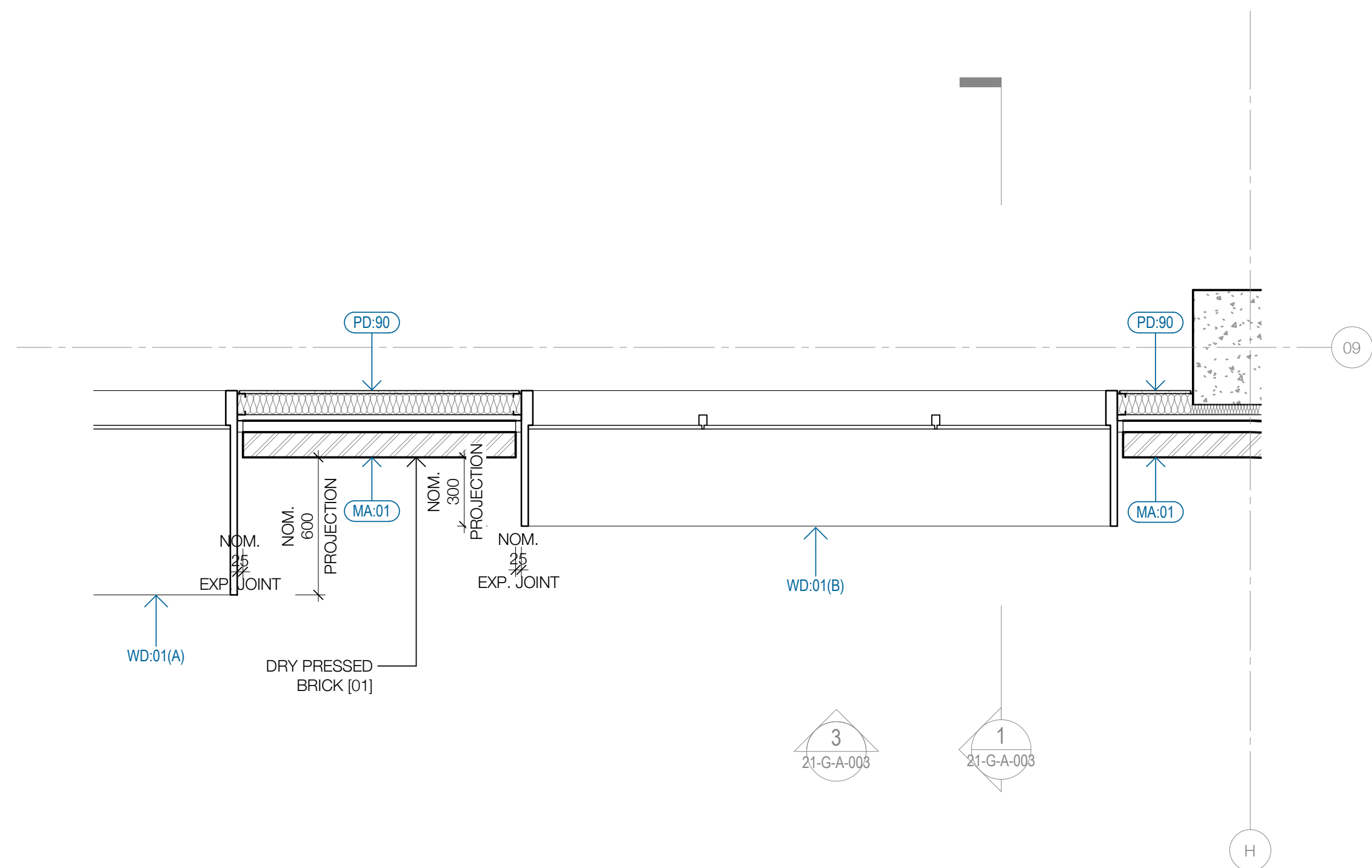
1 301 FEATURE WINDOW SECTION VIEW
SCALE 1 : 20



3 201 FEATURE WINDOW ELEVATION VIEW
SCALE 1 : 20



2 101 3D FEATURE WINDOW DIAGRAM

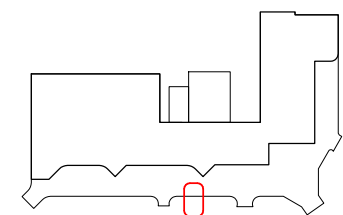


4 101 FEATURE WINDOW PLAN VIEW (L1)
SCALE 1 : 20

Recent revision history		
#	Status	Description
1	PRELIMINARY	Issued for SD Preliminary Costing
2	PRELIMINARY	Issued for SD

Date
21/05/21
01/06/21

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- 01 DRY PRESSED BRICK
- 02 STANDING SEAM METAL CLADDING
- 03 GALVANISED METAL BALUSTRADE
- 04 RED STANDING SEAM METAL CLADDING
- 05 MESH
- 06 GLAZING
- 07 PRE-FINISHED COLOURED CFC CLADDING
- 08 PRE-FINISHED COLOURED METAL

Project
MOSMAN HIGH SCHOOL

Client
SCHOOL INFRASTRUCTURE NSW

Issuer

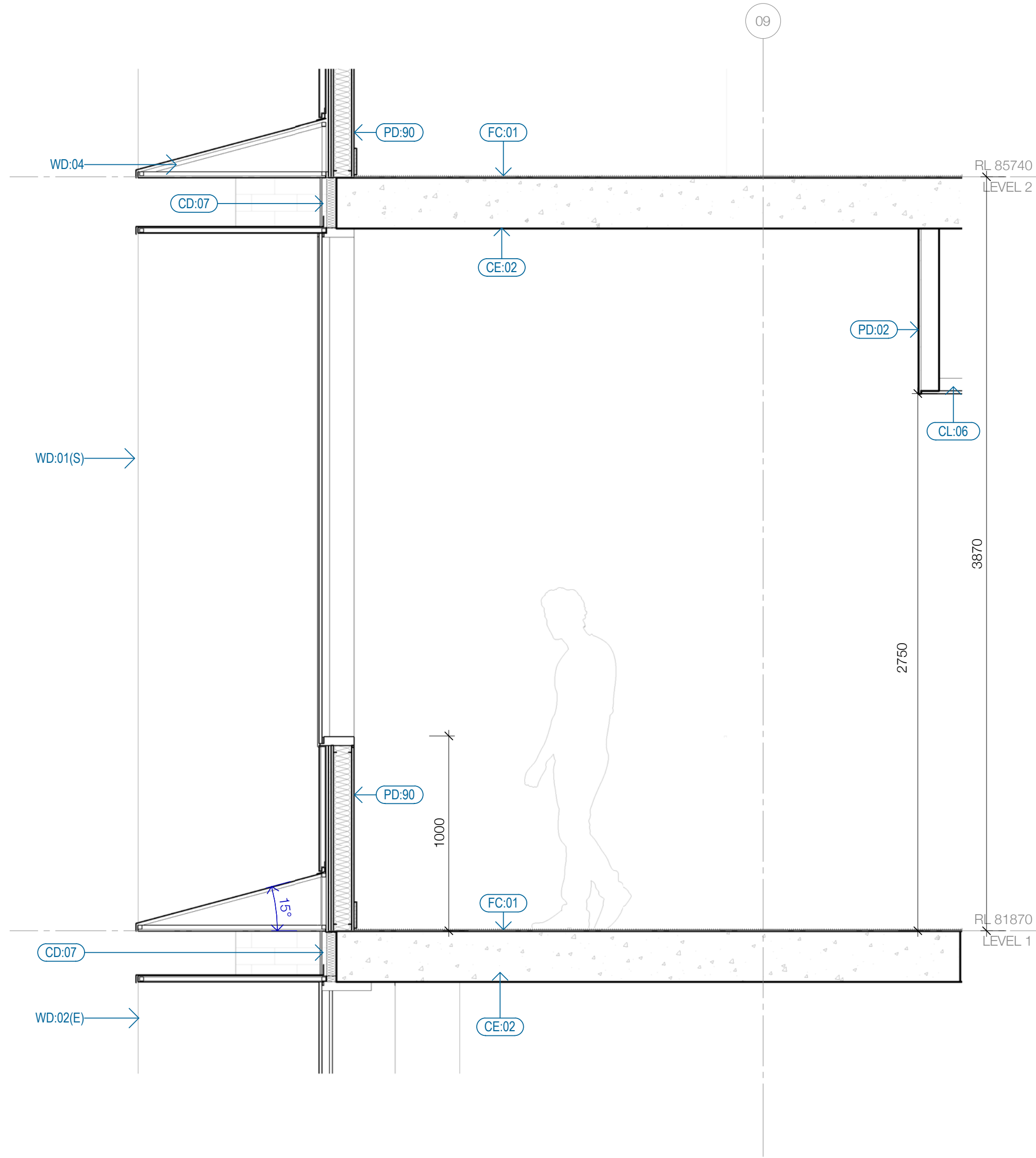
MULTIPLEX
W-B
WOODS BAGOT

Project number
121468
Checked
CS
Approved
GS
Size check
25mm
Sheet size
A1
Scale
As indicated

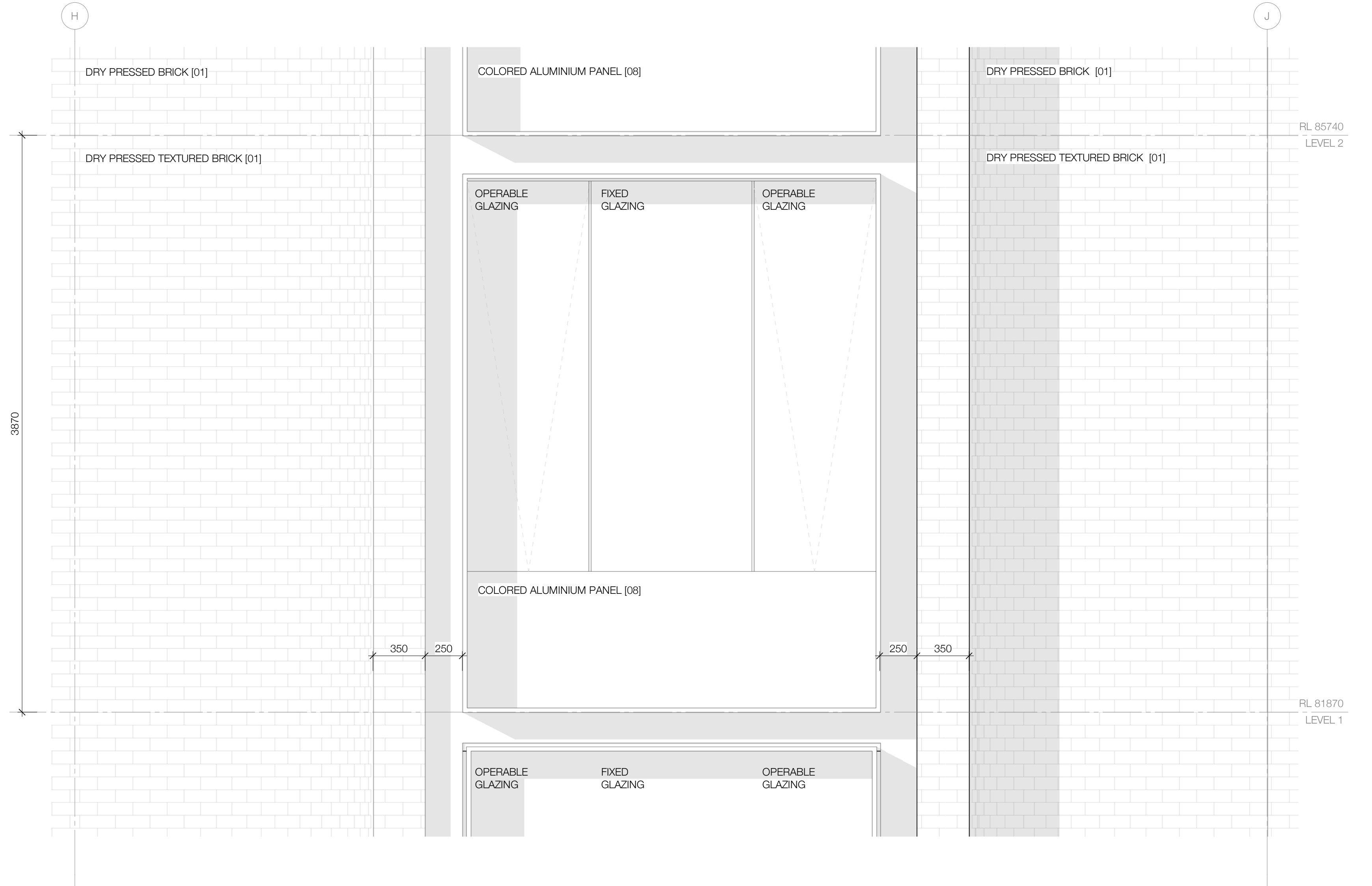
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FACADE DETAILS - SHEET 1

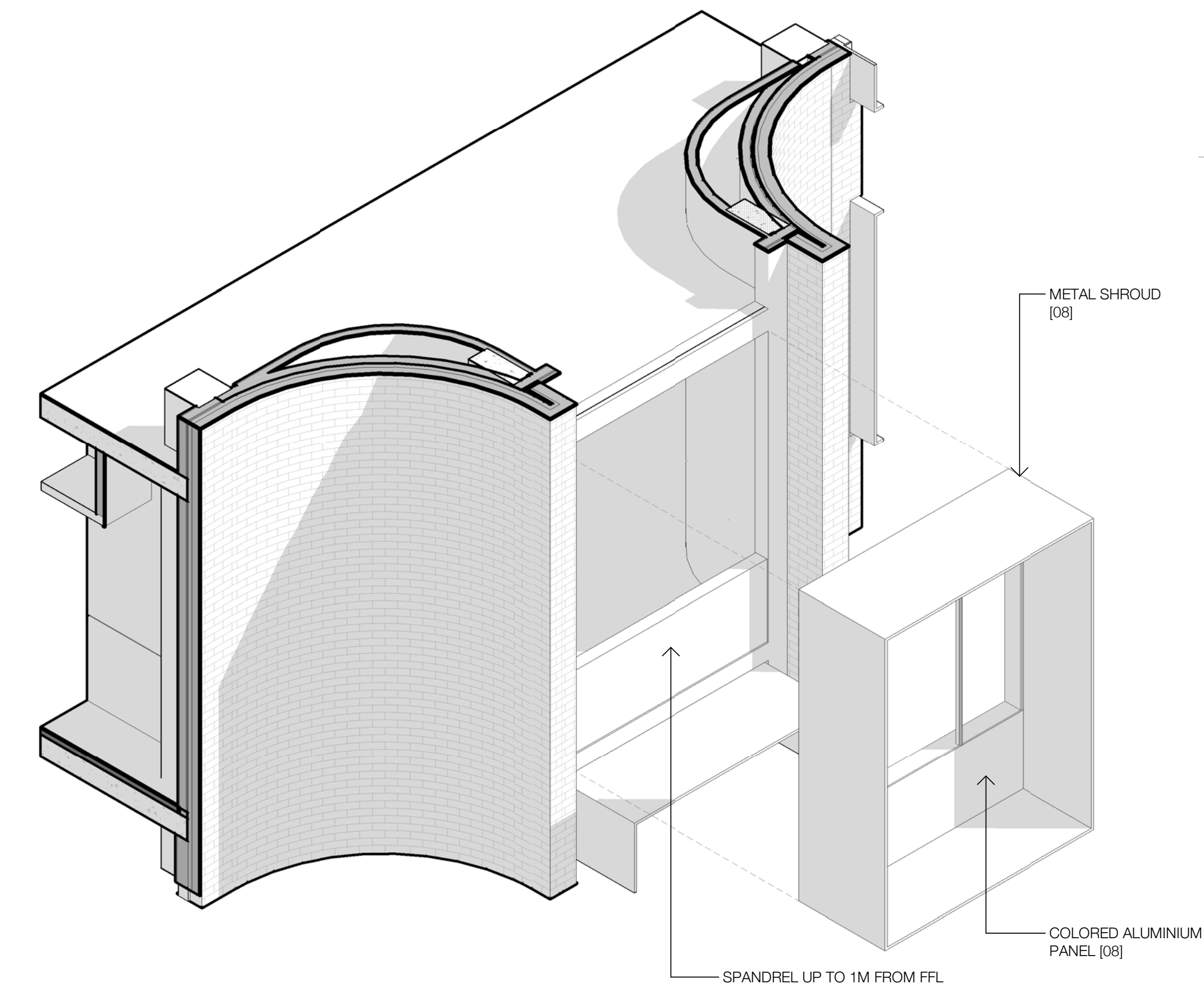
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AR- 21-G-A-003
Status
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Revision
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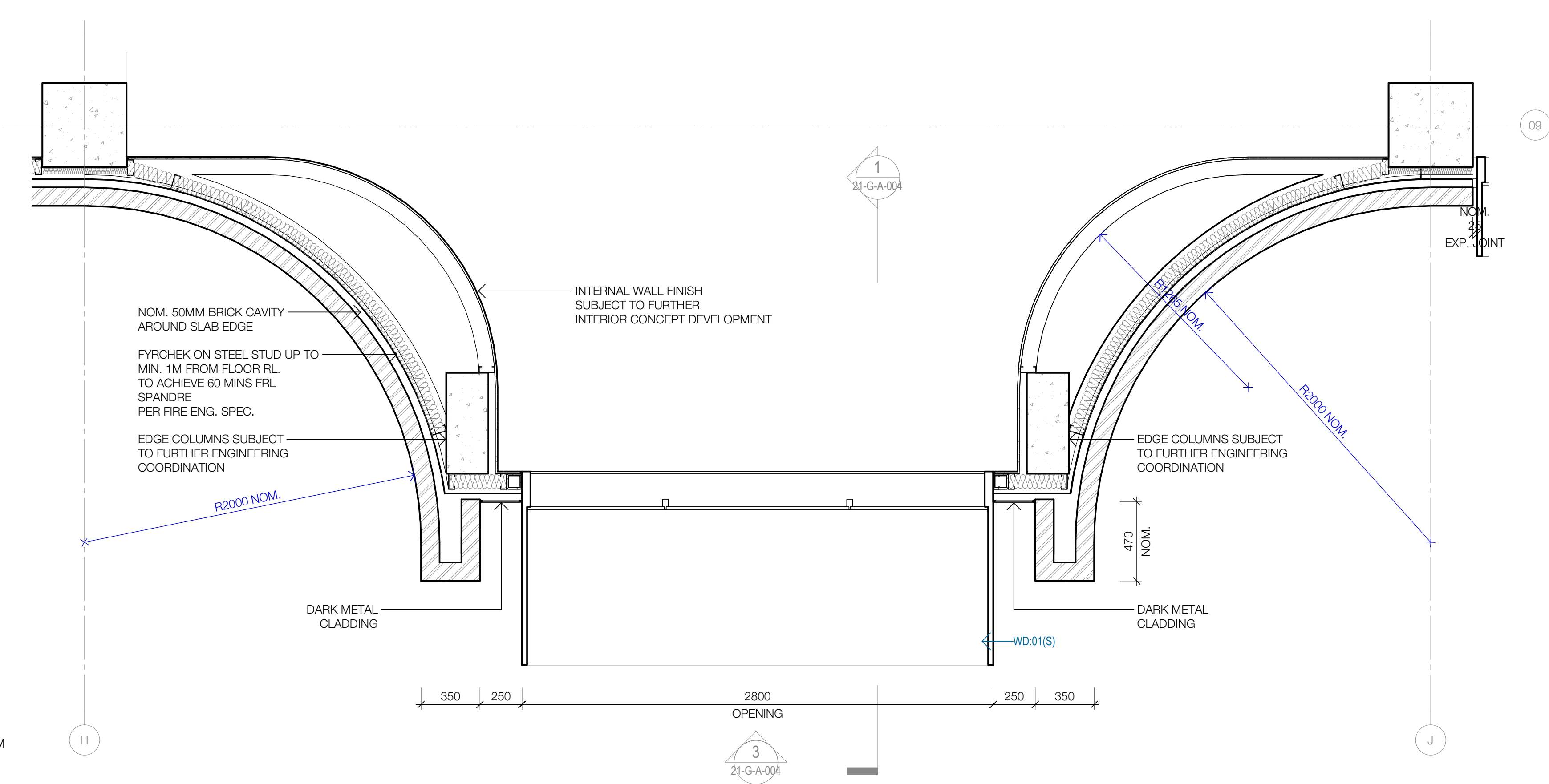
1 302 SNORKEL SECTION VIEW
SCALE 1 : 20



3 202 SNORKEL ELEVATION VIEW
SCALE 1 : 20



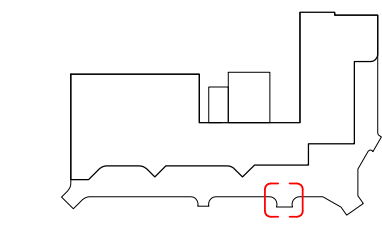
2 102 3D SNORKEL DIAGRAM



4 102 SNORKEL PLAN VIEW (L1)
SCALE 1 : 20

Recent revision history		
#	Status	Description
1	PRELIMINARY	Issued for SD Preliminary Costing
2	PRELIMINARY	Issued for SD

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- 01 DRY PRESSED BRICK
- 02 STANDING SEAM METAL CLADDING
- 03 GALVANISED METAL BALUSTRADE
- 04 RED STANDING SEAM METAL CLADDING
- 05 MESH
- 06 GLAZING
- 07 PRE-FINISHED COLOURED CFC CLADDING
- 08 PRE-FINISHED COLOURED METAL

Project
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WOODS BAGOT

Project number
121468
Checked
CS
Approved
GS
Size check
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Sheet size
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Scale
As indicated

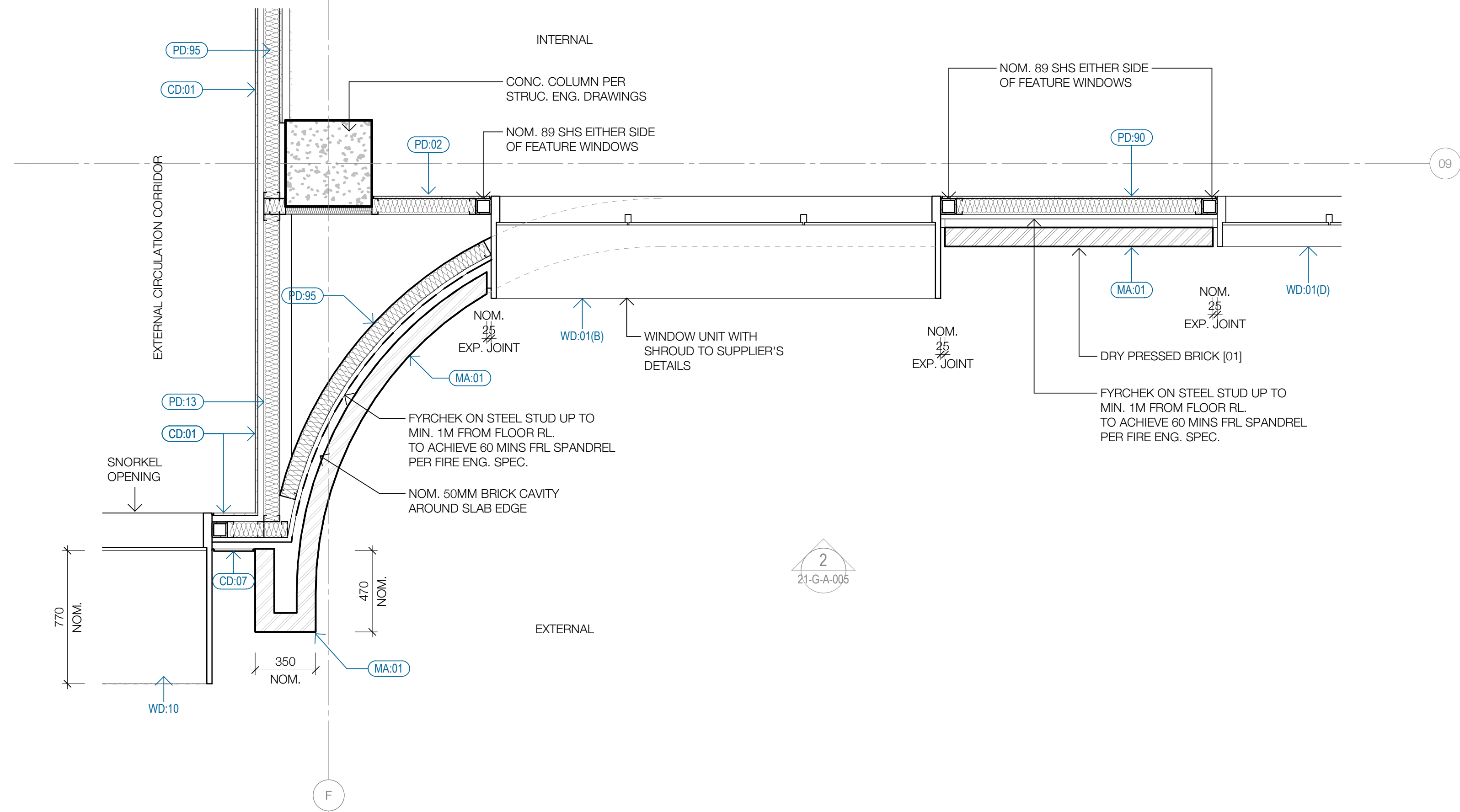
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FACADE DETAILS - SHEET 2

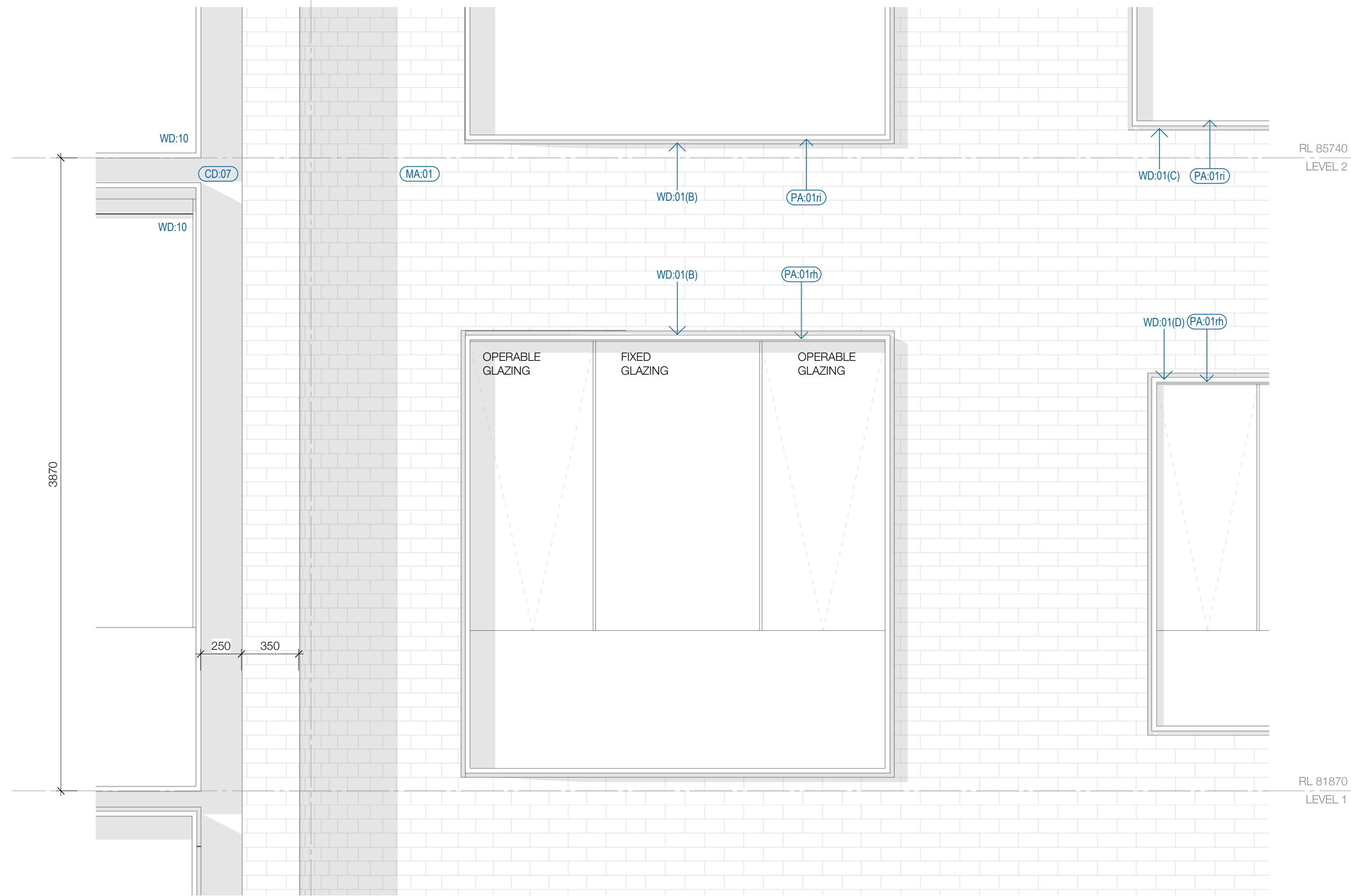
Sheet number
AR- 21-G-A-004
Status
PRELIMINARY
Revision
2

Recent revision history		
#	Status	Description
		Date

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1 103 SNORKEL CURVED WALL PLAN VIEW (L1)



2 203 CURVED WALL WINDOW VIEW

Project
MOSMAN HIGH SCHOOL

Client
SCHOOL INFRASTRUCTURE NSW

Issuer

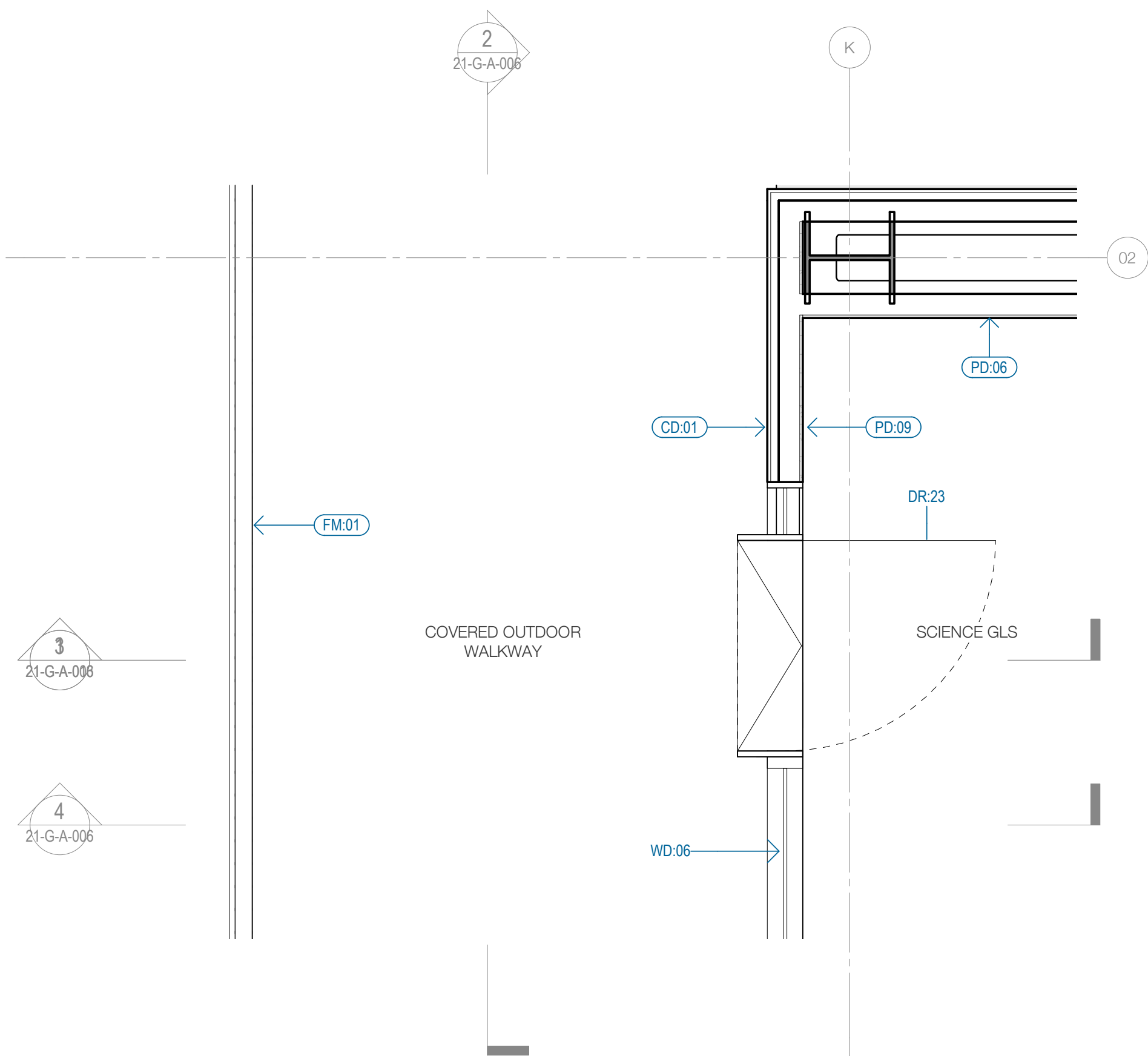
MULTIPLEX
W-B™
WOODS BAGOT

Project number
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Size check
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Checked
Checker
Approved
Approver
Sheet size
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Scale
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Sheet title

FACADE DETAILS - SHEET 3

Sheet number
AR- 21-G-A-005
Status
DRAFT
Revision

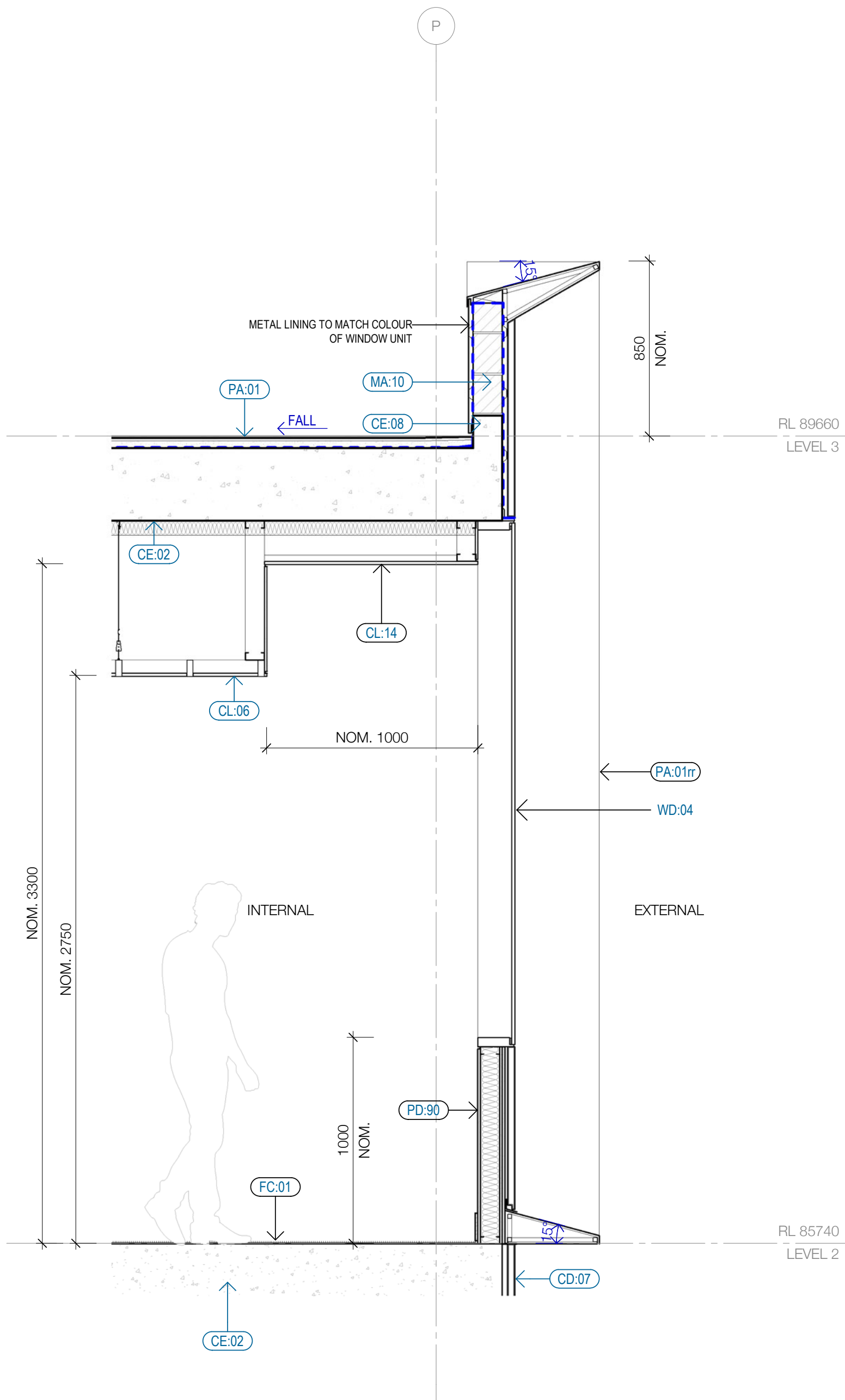


Architectural section drawing of a building entrance detail. The drawing shows a cross-section of a structure with a covered outdoor walkway on the left and a service zone on the right. Key components and materials are labeled with callouts: CE.02 (ceiling), FM.01 (floor), LV.01 (vertical element), WD.08 (window/door), DR.23 (door), CL.06 (cladding), FC.02 (floor), and K (key). Dimensions are provided: MIN. 1300 (minimum height), 2750 (total height), and 30 (thickness). The drawing is labeled 'SCIENCE GLS' and 'SERVICE ZONE'. A threshold plate is shown at the base of the structure, with a note 'INC. 30MM SETDOWN + 5MM FINISH'. The drawing is also labeled 'COVERED OUTDOOR WALKWAY' and 'METAL FRAME'. The drawing is oriented with a vertical dashed line indicating a section cut.

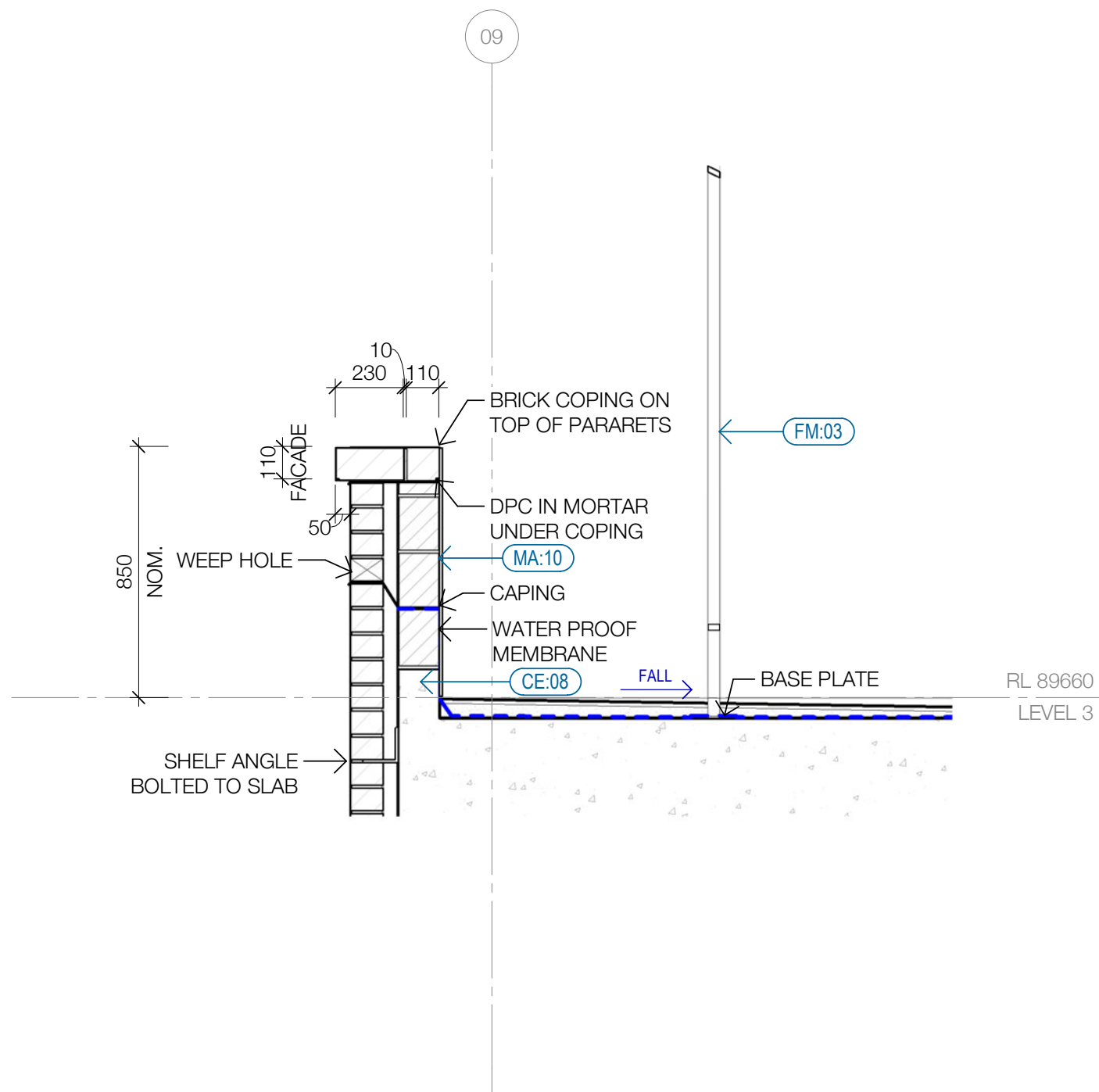
Architectural section drawing showing a cross-section of a building facade and interior space. The drawing includes the following elements and callouts:

- Dimensions:** A vertical dimension of 1300 is indicated on the left side.
- Structural and Finish Callouts:**
 - CE.02: Ceiling finish (top and bottom).
 - CL.06: Ceiling line (right side).
 - CD.01: Door (bottom right).
 - FC.02: Floor finish (bottom right).
 - FM.01: Finish material (left wall).
 - LV.01: Vertical element (top center).
 - WD.06: Window detail (center).
 - WD.08: Window detail (center).
- Labels:**
 - COVERED OUTDOOR WALKWAY
 - WINDOW SILL/HEAD DETAIL BY SUPPLIER / FACADE ENG.
 - SERVICE ZONE
 - SCIENCE GLS
- Other:** A vertical line labeled 'K' is shown on the right side. The drawing is labeled 'RL 81670 LEVEL 1' at the bottom right.

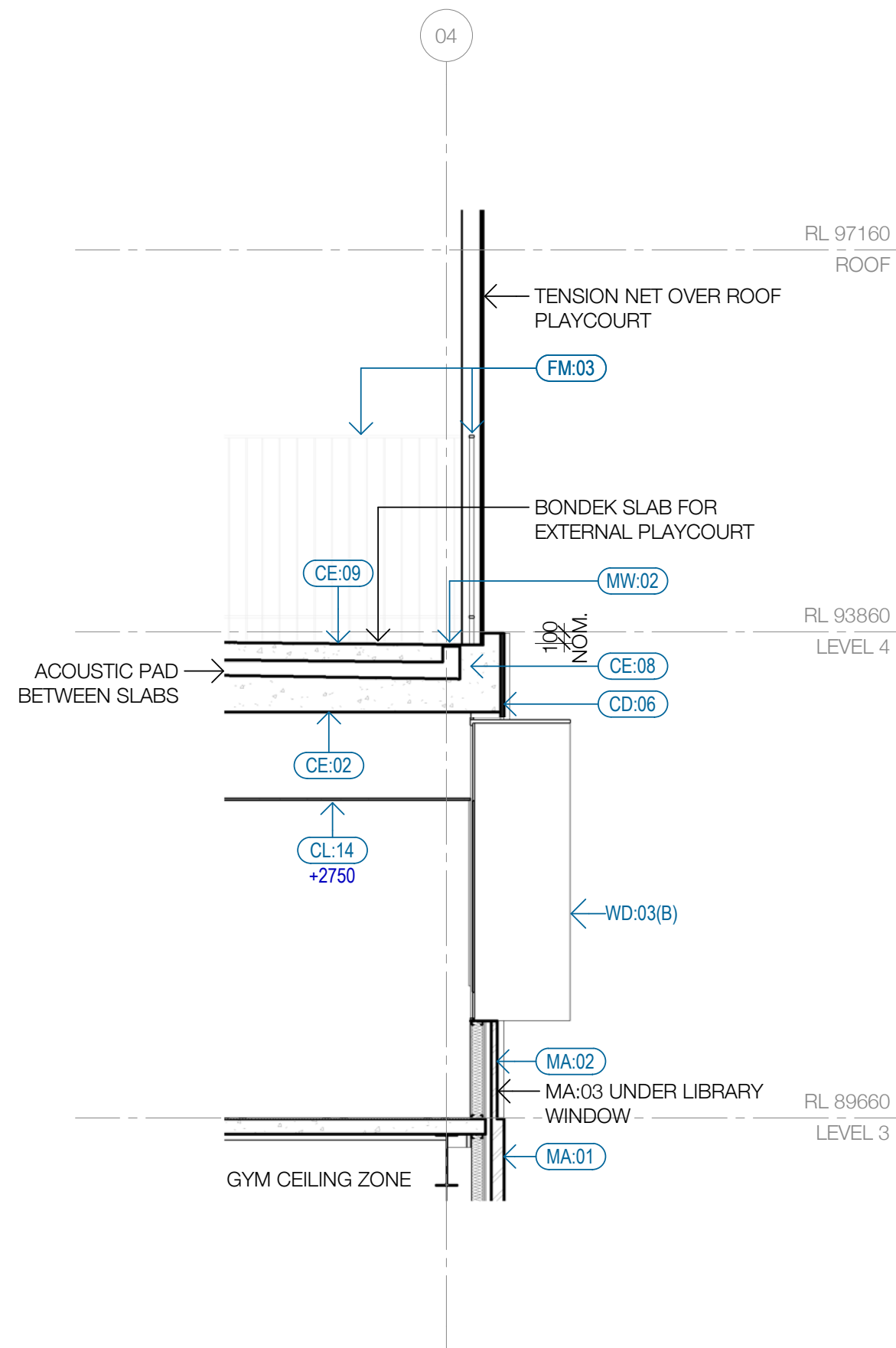
Sheet number **AR- 21-G-A-006** Revision **2**
Status **PRELIMINARY**



3 TYP. FEATURE WINDOW PARAPET DETAIL



1 TYP. BRICK PARAPET DETAIL
SCALE 1 : 20



2 TYP. ROOF COURT EDGE DETAIL
SCALE 1 : 50

Recent revision history		
#	Status	Description
		Date

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Project number
121468
Checked
Checker
Approved
Approver
Sheet size
A1
Scale
As indicated

Sheet title
ROOF DETAILS SHEET 1

Sheet number
22-G-A-001
Status
Revision

Technical Data

SWISSPEARL facade panels

03/2017

Property	Unit	Test Method	Result
----------	------	-------------	--------

Physical Properties			
Density	g/cm ³	EN 12467	>1.75
Weight	kg/m ²		15.7 for 8 mm
Bending strength (equilibrium)	MPa	EN 12467	>22
Bending strength (wet condition)	Class 4/Cat.A	EN 12467	passed
Modulus of elasticity (E-Modul)	MPa	EN 12467	ca. 15000
Moisture movement	%	EN 12467	ca. 0.12
Thermal expansion coefficient	mm/mK	ASTM E 228-95	0.01
Thermal conductivity	W/mK	EMPA	ca. 0.56

CH-8867 Niederurnen
+41 55 617 11 11

info@swisspearl.com
www.swisspearl.com

Dimensional tolerances			
Thickness	mm	EN 12467	±10%
Length and width	Level 1	EN 12467	passed
Straightness of edges	Level 1	EN 12467	passed
Squareness of edges	Level 1	EN 12467	passed

Durability			
Swisspearl facade panels fulfill the requirements of the highest durability category "A" according to EN 12467 and may be subjected to heat, high moisture and severe frost.			
Water impermeability	Category A	EN 12467, ASTM C 1185	passed
Freeze-thaw	Category A	EN 12467	passed (R _L ca. 1.0)
Soak / dry	Category A	EN 12467	passed (R _L ca. 1.0)
Heat-rain	Category A	EN 12467, ASTM C 1185	passed
Warm water	Category A	EN 12467	passed (R _L ca. 1.0)

Fire			
Surface Burning Characteristics EN			
Fuel contributed	A2	EN 13501-1	passed
Smoke development index (SDI)	s1	EN 13501-1	passed
Flames droplet index	d0	EN 13501-1	passed
Fire performance	Suitable where non-combustible materials are used in accordance with local building regulations		

STRAMIT FLAMMABILITY STATEMENT

NOVEMBER 2019 | THIS VERSION SUPERCEDES ALL PREVIOUS VERSIONS

FIRE RESISTANCE

Fire resistance is such an important topic and one that we take seriously here at Stramit. It's important for everyone in our building industry, including product manufacturers, architects, builders, engineers and installers.

NATIONAL CONSTRUCTION CODE

The National Construction Code (NCC) sets out technical provisions for the design, construction and performance of buildings throughout Australia, which include criteria for the assessment of building elements under fire conditions.

Part C1 of Volume One of the NCC 2019 states the provisions that need to be met for fire resistance and stability when proposing a Deemed to Satisfy solution. As stated in Part C1.9, building elements in certain types of fire resisting construction, for example external or common walls, load bearing internal walls etc, must have all components that are non-combustible. Stramit® wall sheeting used in this type of construction must meet this requirement. Part C1.9(e) gives a list of materials that may be used where non-combustible components are required. One option is metal sheeting with a combustible surface finish less than 1mm in thickness, with a Spread of Flame Index not exceeding 0.

Similarly, in Volume Two of the NCC 2019, Part 3.7 sets out the requirements for Fire Safety, and Part 3.7.1 states the Fire properties for materials and construction. The Acceptable Construction Practice includes a section 3.7.1.1 on General concessions – non-combustible materials. One of the options mentioned here as non-combustible is metal sheeting with a combustible surface finish less than 1mm in thickness, with a Spread of Flame Index not exceeding 0.

MATERIALS TESTING

Stramit® roofing, cladding, rainwater and structural building products are manufactured from steel produced by Bluescope® Steel or Pacific Coil Coaters (through Selection Steel). Both organisations have had independent tests on their materials carried out by CSIRO or AWTA. The testing was conducted in accordance with the Australian Standard AS1530.3 'Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release.' All materials had a surface finish less than 1mm in thickness and a Spread of Flame Index of 0. More detail is given in the table over the page.

TECHNICAL SUMMARY

Steel Source	Base Metal Thickness (mm)	Finish	Certificate Number	Ignitability Index (0-20)	Spread of Flame Index (0-10)	Heat Evolved Index (0-10)	Smoke Developed Index (0-10)
Bluescope	0.35	COLORBOND®	FNE11605	0	0	0	2
Bluescope	0.7	COLORBOND® METALLIC	FNE11604	0	0	0	2
Bluescope	0.42	ZINCALUME®	FNE11602	0	0	0	2
Bluescope	0.42	TRUECORE®	FNE11601	0	0	0	1
Bluescope	0.42	Galvanised	FNE11600	0	0	0	2
Bluescope	0.55	PVDF	FNE11606	0	0	0	1
Pacific Coil Coaters	0.42	MagnaFlow®	19-002186	0	0	0	3

CONCLUSION

Stramit® products made from these steel sources and with the tested finishes would be considered non-combustible according to NCC 2019 Volume One Part C1.9(e) and Volume Two Part 3.7.1.1.

It is important to note that Stramit® sheeting is only one component used in construction of these building elements, and other components must also meet the necessary requirements to satisfy the criteria.

For information on performance of residences in a bushfire situation, please refer to the bulletin based on the [NASH Bushfire Standard](#) on the Bluescope® website.

The information contained within this brochure is intended for general use and information only. Before application in a particular situation, Stramit recommends that you obtain appropriate independent qualified expert advice confirming the suitability of product(s) and information in question for the application proposed. While Stramit accepts its legal obligations, be aware however that to the extent permitted by law, Stramit disclaims all liability (including liability for negligence) for all loss and damage resulting from the direct or indirect use, or reliance on, the information provided in this brochure.

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Certificate of Test

Quote No.: NE7500

REPORT No.: FNE11605

AS/NZS 1530.3:1999 SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME PROPAGATION, HEAT RELEASE AND SMOKE RELEASE

TRADE NAME: BlueScope COLORBOND Steel

SPONSOR: Bluescope Steel Limited
Innovations Lab
Old Port Road
PORT KEMBLA NSW 2505
AUSTRALIA

DESCRIPTION OF

SAMPLE: The sponsor described the tested specimen as a polyester painted steel sheet with aluminium-zinc-magnesium alloy coating on both sides.

Nominal thickness of steel sheet:	0.35 mm
Nominal thickness of aluminium-zinc-magnesium coating:	30 μ m
Nominal thickness of paint layer:	50 μ m
Nominal total thickness:	0.45 mm
Nominal total mass:	5.5 kg/m ²
Nominal total density:	7700 kg/m ³
Colour:	dark grey (Woodland Grey)/brown

TEST PROCEDURE: Six samples were tested in accordance with Australian Standard 1530, Method for fire tests on building components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release, 1999. For the test, each sample was clamped to the specimen holder in four places.

RESULTS: The following means and standard errors were obtained:

Parameter	Mean	Standard Error
Ignition Time (min)	N/A	N/A
Flame Spread Time (s)	N/A	N/A
Heat Release Integral (kJ/m ²)	N/A	N/A
Smoke Release (log ₁₀ D)	-1.560	0.072

For regulatory purposes these figures correspond to the following indices:

Ignitability Index (0-20)	Spread of Flame Index (0-10)	Heat Evolved Index (0-10)	Smoke Developed Index (0-10)
0	0	0	2

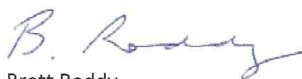
The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.

DATE OF TEST: 11 February 2016

Issued on the 3rd day of March 2016 without alterations or additions.



Heherson Alarde
Testing Officer



Brett Roddy
Team Leader, Fire Testing and Assessments

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NATA Accredited Laboratory
Number: 165
Corporate Site No 3625
Accredited for compliance with ISO/IEC 17025

CSIRO INFRASTRUCTURE TECHNOLOGIES

14 Julius Avenue, Riverside Corporate Park, North Ryde NSW 2113 AUSTRALIA
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