

PRODUCT APPROVAL EVALUATION REPORT

Product Manufacturer : Elicc Americas Corporation
13475 Danielson St Suite 250
Poway, California 92064

Product Name/ Model &Description
Series CW 400 Curtain Wall System
Specimen # 11 - Small Missile impact. Mockup =1
Specimen # 12 - Small Missile impact. Mockup =2

Scope: This product has been evaluated by the below - signed Florida Professional Engineer for compliance with the code noted herein and is for the purpose intended, at least equivalent to that required by the Code, in accordance with section 553.842 F.S & Chapter 61G20-3.005 F.A.C. Re-evaluation of this product shall be required following applicable code modifications or revisions.

Code: 8th Edition Florida Building Code (2023) inclusive of all Supplements effective as of this report date.

Compliance Method: 61G20 - 3.005(1)(d) - Evaluation report from a licensed professional Engineer .

Product Description: Product Approval Drawing CW- 400 SERIES SMALL MISSILE IMPACT RESISTANT(S.M.I) prepared by ELICC AMERICAS CORPORATION Signed and Sealed by Pavan Manepalli P.E, is an integral part of this Evaluation Report.

Limitations and Conditions of use:

1. This product has been evaluated for use Inside and Outside of the HVHZ (High - Velocity Hurricane Zone)
2. Impact Resistance : Small Missile Impact (S.M.I)
3. Refer to Product Approval Drawing noted above for :
 - a. Maximum allowable wind loads at the related maximum allowable size (S)
 - b. Other load limitations applicable to the product, if any
 - c. Overall dimensions and material/grade of main product components, accessories, etc.
 - d. Illustrated diagrams of the attachment of the product to the structure.
 - e. Anchor type(s), size(s), substrate(s), embedment, edge distance and spacing/ locations.

TEST REPORTS :

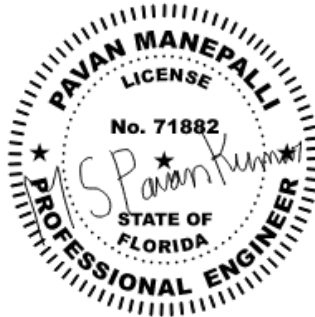
Mandatory Tests (Tested in accordance with Florida Building Code Tests Protocols)

Test Lab : Black water Testing Inc - West Palm Beach , FL

Report Number: BT -ELG- 24- 006 Signed and Sealed by Michael D. Caldwell, PE FL# 49979

Test Report Date: 03 -19- 2025

Test Standard
and Description: ASTM E283-04 (air infiltration)
ASTM E331-00 (water infiltration)
ASTM F842-17 (Forced Entry Test)
ASTM F588-17 (Disassembly Test)



TAS 201-94/ASTM E1996-20 - (Mock Up 1&2 was subjected to small missile impacts (Level A) per TAS 201-94.

TAS 202-94 - (Mock Up 1&2 were subjected to static wind loads in accordance with TAS 202-94. Mock Up 1&2 completed wind loads to verify a Design Load of +/-110.00psf.

04/08/2025 TAS 203-94/ ASTM E1886-19 - (Mock Up 1&2 were subjected to cyclic wind loads in accordance with TAS 203-94. Mock Up 1&2 successfully completed the cyclic wind loads to verify a Design Load of +/-110.00 psf.

Engineering Analysis :

The following engineering analysis and/or Calculations have been performed

1. No comparative analysis has been performed for conditions other than those tested.
2. No rational analysis has been performed.
3. Anchor calculations are based on manufacturer's published anchor capacity.

Equivalency Evaluation to AAMA 501 : It has been determined that for the above referenced product with Florida Product Approval # 47431 the testing performed for the TAS 201, TAS 202 and TAS 203 meet or exceed the requirement of AAMA 501.



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MIAMI-DADE CERTIFICATION #21-0909.01 ISO/IEC 17025:2017 AT-2584



Client:

ELICC AMERICAS CORPORATION
13475 DANIELSON ST.
POWAY, CA 92064
TEL: 760-233-0066
FAX: 760-233-0065

Product Description of Unit

CW SYSTEM for FPA

Test Dates Start: 01/04/2025 End: 01/07/2025

Witness to Testing: Mike Caldwell, P.E. Test Engineer, BT President
Austin Hartwick, BT Lead Lab Technician

Testing Summary

AIR INFILTRATION (ASTM E283): Mock ups 1&2 were subjected to Air Infiltration. Mock ups 1&2 passed testing Criteria.

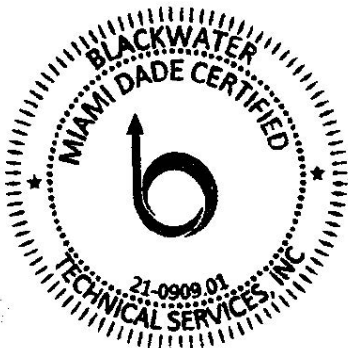
WATER INFILTRATION (ASTM E331): Mock ups 1&2 were subjected to Water Infiltration at +16.5 psf. Mock ups 1&2 passed testing criteria.

STATIC LOADS (TAS 202-94): Mock Ups 1&2 were subjected to static wind loads in accordance with **TAS 202-94** with a Design Pressure of +/-110.00 psf. Mock Ups 1&2 passed testing criteria.

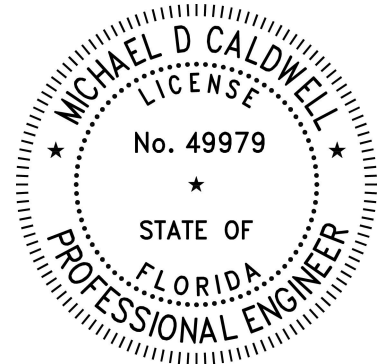
SMALL MISSILE IMPACTS (TAS 201-94): Mock Ups 1&2 were subjected to Small Missile Impacts (Level A) in accordance with **TAS 201-94**. Mock Ups 1&2 passed the testing criteria

CYCLIC LOADS (TAS 203-94): Mock Ups 1&2 were subjected to cyclic wind loads in accordance with **TAS 203-94** with a Design Pressure of +/-110.00 psf. Mock Ups 1&2 passed testing criteria.

CONCLUSION: Following testing Mock Ups 1&2 were disassembled. No failures were observed in the panes, frame, fastenings, or anchorages. **The "CW SYSTEM for FPA" product was tested in accordance with and meets the requirements to comply with Florida Building Code 2023.**



Mike Caldwell, President



This item has been digitally signed and sealed by Michael Caldwell, PE, on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Disclaimer: This is a general statement and does not supersede the specific product descriptions in this report. The Mock Ups are in conformance with drawings provided by the manufacturer. These drawings have been marked to indicate the appropriate portions descriptive of this test series. Blackwater Technical Services, Inc. does not take responsibility for product performance and whose only purpose is to test and gather pertinent data under test report format for the client.

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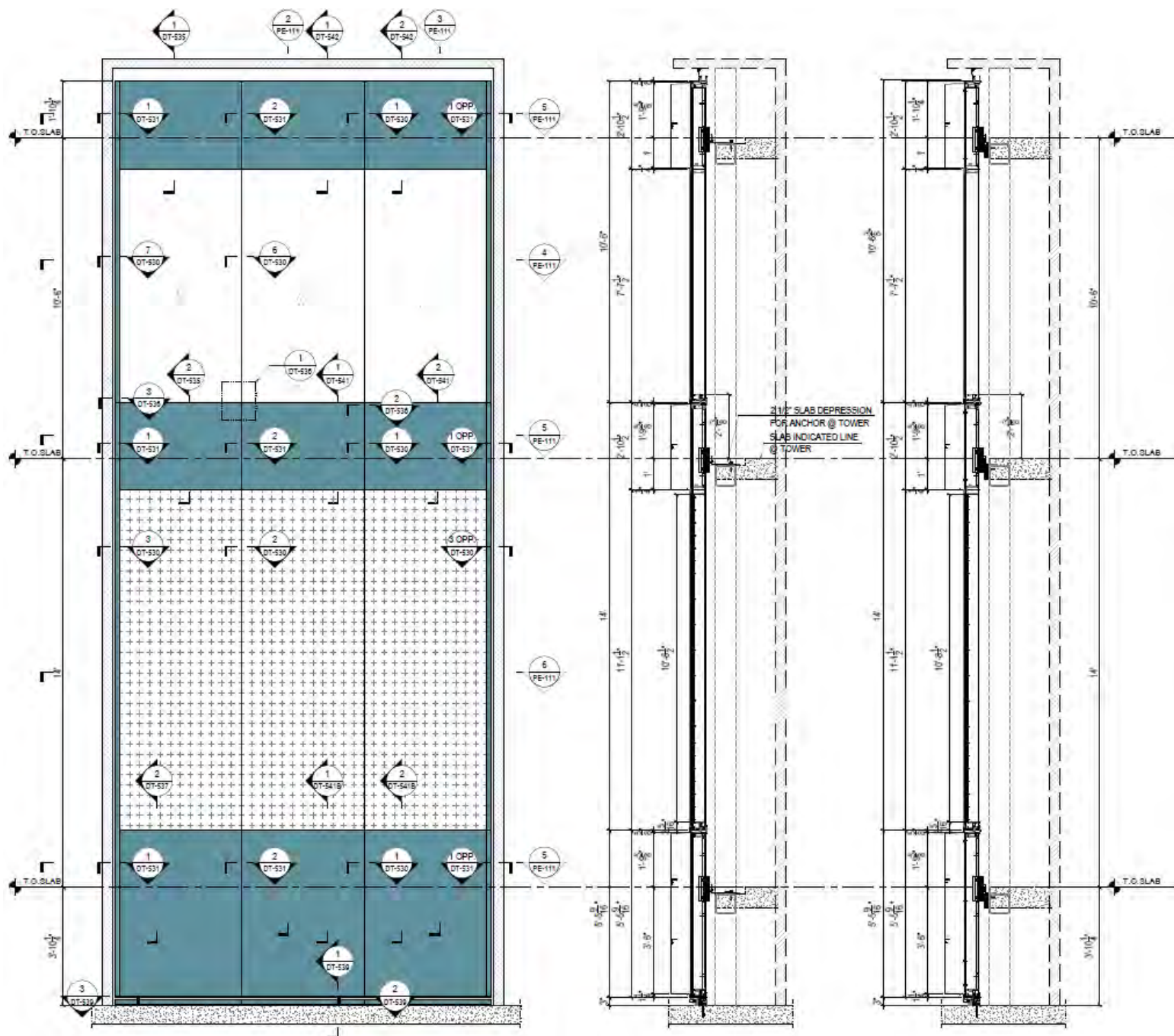
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Product Description

Mock Up Elevations:



Mock Up 1

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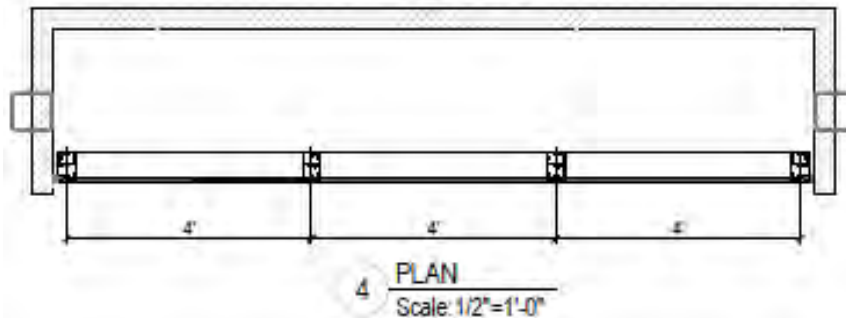
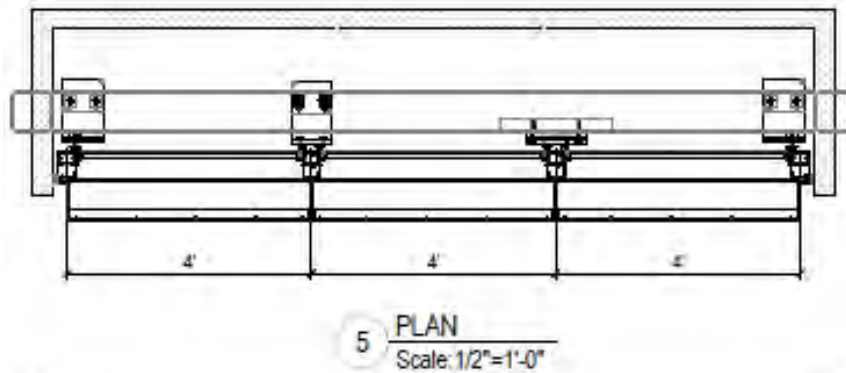
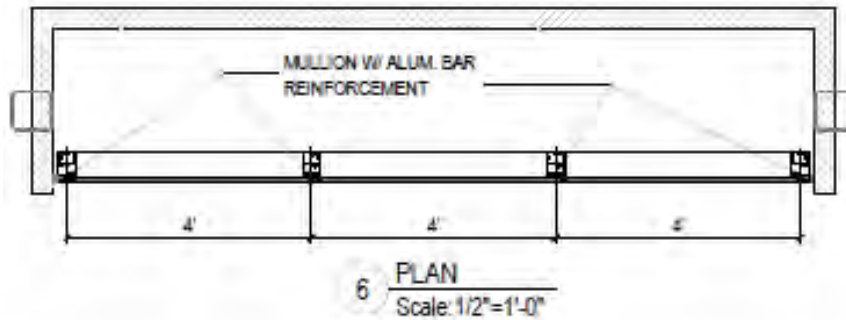


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Mock Up 1 Vertical Sections

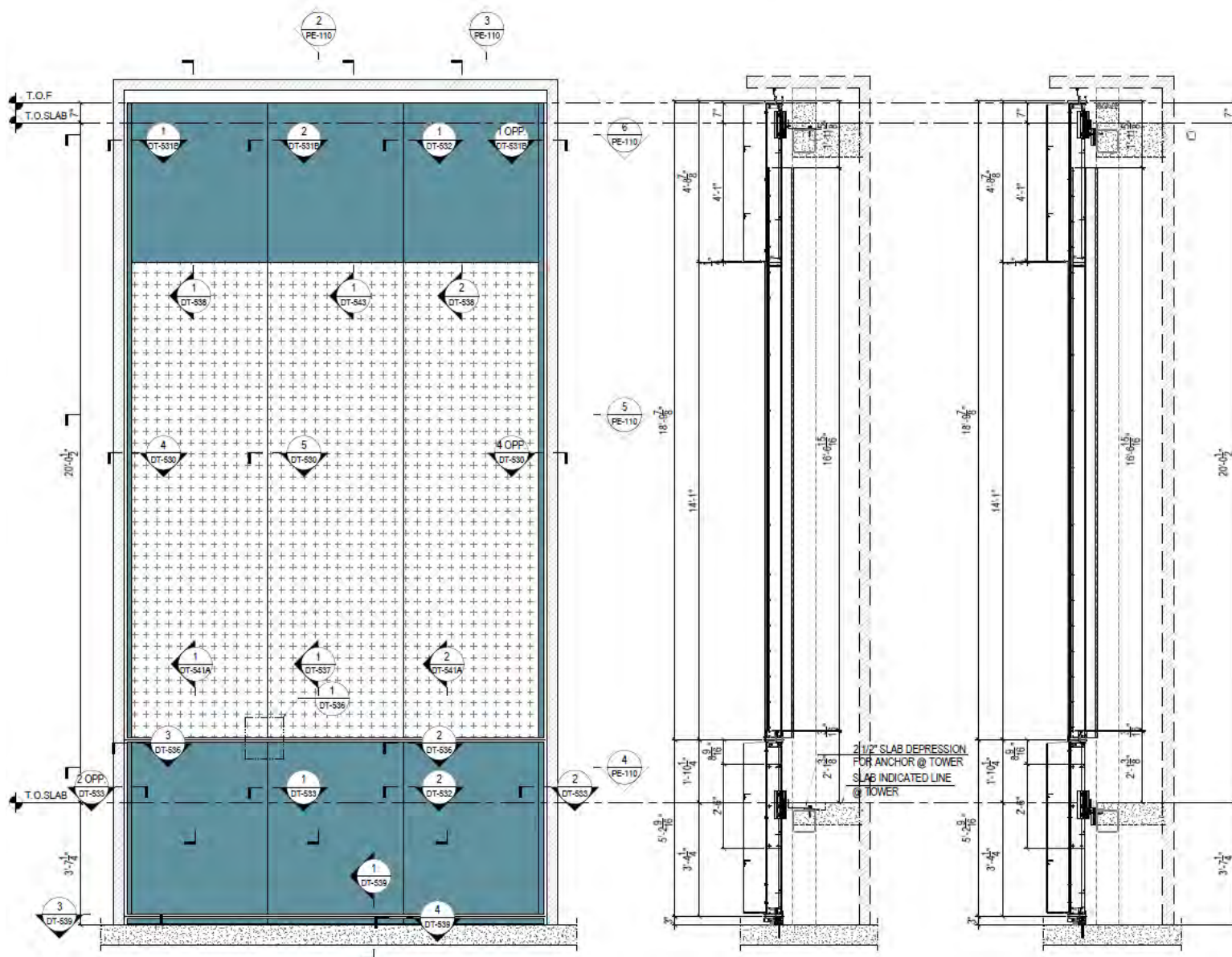


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Mock Up 2

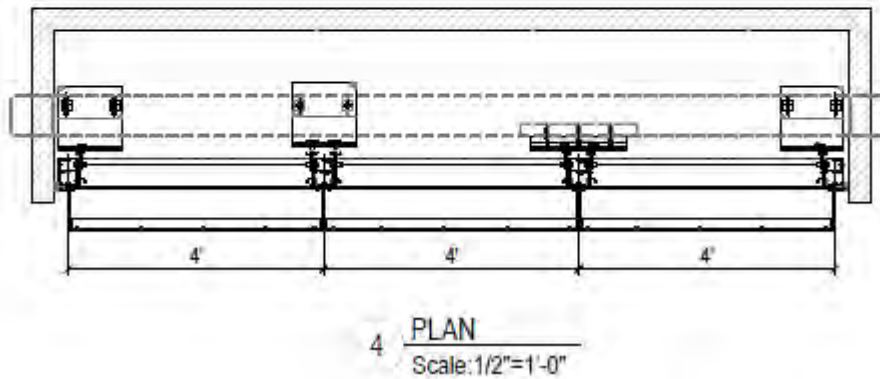
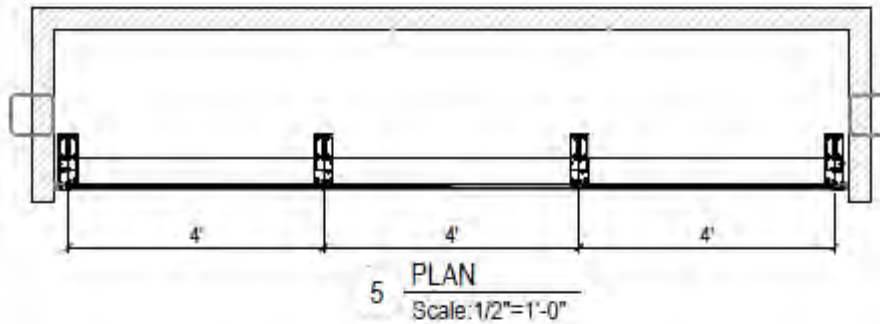
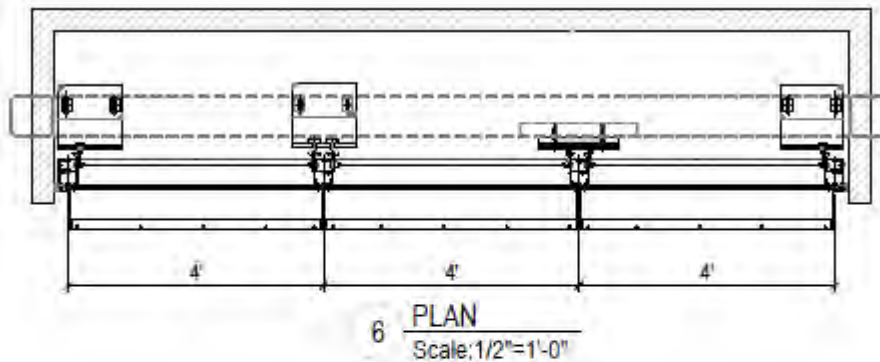


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Mock Up 2 Vertical Sections



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Overall Size:

Mock Up 1:

- 12'-3-5/8" W by 28'-1/4" H

Mock up 2:

- 12'-3-5/8" W by 23'-14-3/4" H

Daylight Opening:

Mock up 1:

- 3 x 3'-8-1/2" W by 13'-6-3/8" H
- 3 x 3'-8-1/2" W by 7'-2-7/8" H
- 3 Aluminum panels 3'-8-1/2" W by 4'-11-7/8" H
- 3 x Aluminum panels 3'-8-1/2" W by 2'-6-1/2" H

Mock up 2:

- 3 x 3'-8-1/2" W by 13'-8-3/8" H
- 3 Aluminum panels 3'-8-1/2" W by 4'-8-3/4" H
- 3 Aluminum panels 3'-8-1/2" W by 4'-4-3/4" H

Glazing Composition:

Mock up 1:

- Metal panel: 3MM Thick aluminum
- Vision Glass: FT 6MM Clear+1.52MM PVB+ FT 6MM Clear Laminated Glass
- Vision Glass: HS 6MM Clear+1.52MM PVB+ HS 6MM Clear Laminated Glass

Mock up 2:

- Metal panel: 3MM Thick aluminum
- Vision Glass: FT 6MM Clear+1.52MM PVB+ FT 6MM Clear Laminated Glass

Glazing Sealant:

All mockups

- 983,795,791 Dowsil

Perimeter Sealant:

All mockups

- 3M 540

Glass Bite:

All mockups

- 1-1/2"

Substrate:

All mockups

- Floating Headers: 8x8 steel tube 1/4" thick
- Bottom Sill: Concrete slab

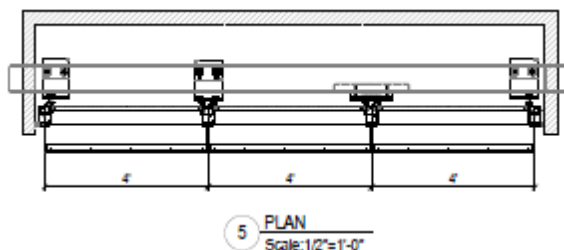
Anchor Details:

Anchor Type – All Mock Ups

- Floating Headers: 5/8"-11x3" Tap-Flex Structural Screws.
- Sill: + 5/8"-11x4" Tap-Flex Structural Screws

Anchor Spacing: - All Mock Ups

- Floating Headers : 4 mounting brackets @ approximately 4' apart see cut below.





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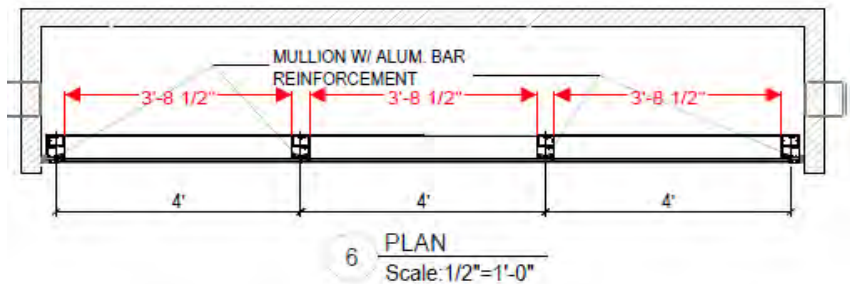
Reinforcements:

Mock Up 2:

- None

Mock up 1:

- 9/16" thick aluminum bar reinforcement screwed into extrusions ES01028 and ES02028 (mullions members) at bottom glass lites. See cut below and associated details on Drawing DT-530 (attached).



Test Sequence

Mock Up 1

1. Air Infiltration ASTM E283
2. TAS 202 @ +/-82.50 psf for 30 seconds
3. TAS 202 @ +/-110.00 psf for 30 seconds
4. Water Infiltration ASTM E331
5. TAS 202-94@ +/-165.00 psf for 30 seconds
6. Forced Entry ASTM F842
7. TAS 201/ASTM E1996 Small Missile Impacts
8. TAS 203/ ASTM E1886 @ +/-110.00 psf
9. ANSI Impact 48" drop

Mock Up 2

1. Air Infiltration ASTM E283
2. TAS 202 @ +/-82.50 psf for 30 seconds
3. TAS 202 @ +/-110.00 psf for 30 seconds
4. Water Infiltration ASTM E331
5. TAS 202-94@ +/-165.00 psf for 30 seconds
6. Forced Entry ASTM F842
7. TAS 201/ASTM E1996 Small Missile Impacts
8. TAS 203/ ASTM E1886 @ +/-110.00 psf
9. ANSI Impact 48" drop



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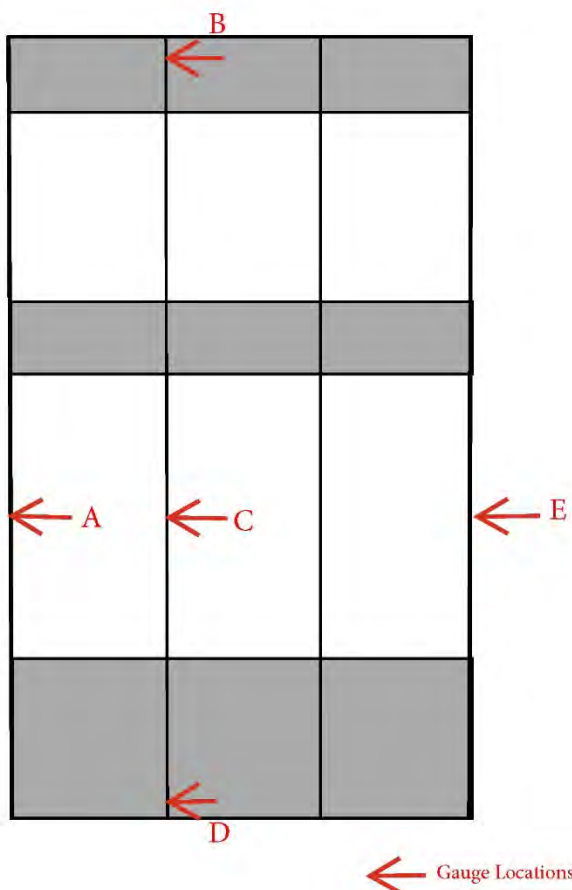
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Test Results



Specimen 1

STATIC LOAD DATA SHEET					Design Pressure		T= 81 °F							
					Positive		Negative							
					110.00		110.00							
Load Factor	Positive/ Negative	Load psf	Load Inch Water	Load Duration (s)	A		B		C		D		E	
					Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
0.5TL	Positive	82.500	15.865	30.000	0.000	0.000	0.063	0.000	0.813	0.063	0.000	0.000	0.000	0.000
0.5TL	Negative	82.500	15.865	30.000	0.000	0.000	0.125	0.000	0.750	0.188	0.063	0.000	0.000	0.000
DP	Positive	110.000	21.154	30.000	0.063	0.000	0.125	0.000	1.313	0.063	0.063	0.000	0.063	0.000
DP	Negative	110.000	21.154	30.000	0.063	0.063	0.188	0.000	1.188	0.063	0.063	0.000	0.063	0.063
TL=1.5DP	Positive	165.000	31.731	30.000	0.125	0.000	0.188	0.063	1.500	0.063	0.063	0.000	0.125	0.000
TL=1.5DP	Negative	165.000	31.731	30.000	0.125	0.000	0.250	0.000	1.438	0.063	0.063	0.000	0.125	0.000

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Air Infiltration Test Results

Test Pressure (psf)	Measured Flow (cfm/ft ²)	Allowed Flow (cfm/ft ²)
6.24	0.03	0.06

Water Infiltration Test Result

Test Pressure (psf)	Test Duration (min)	Water Leakage (in ³ /sec)
+16.5 (3.14 H₂O)	15	none

Disassembly Test

Remove from the window test specimen all screws, glazing beads, and any other members or other mechanical fasteners that can be removed readily from the exterior within a time limit of 5 min using the Disassembly Test Tools List. Removal of the indicated parts shall be done carefully so as not to cause collateral damage to the specimen.

Disassembly Test Tools

*A spatula, putty knife or other non-cutting tool with a thin blade.

**Non powered straight 6" Phillips screw driver

***Standard Slot type pliers 6-7" length

PASS/FAIL: _____ Pass_____

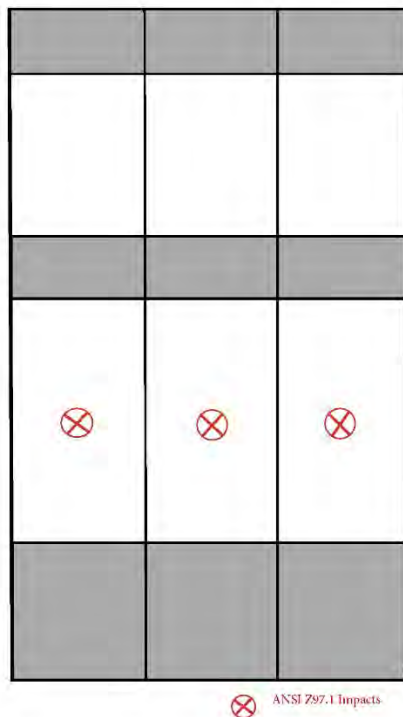


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Specimen 1

Impact 100lb ball at 400 ft*lb (48" drop height)				T=81°F	
Drop Height (in)	Target	Area	Location		Results
			X (in.)	Y (in.)	
48	1	Center Glass	30	143	Pass
48	2	Center Glass	75	143	Pass
48	3	Center Glass	120	143	Pass
Notes: Coordinate origin bottom left hand corner. Locations impacted at 48" A PASS result refers that the specimen has been deemed as satisfactory to the following criteria: 1-Numerous cracks and fissures may occur but no shear or opening through which a 3 inch diameter sphere may be freely passed shall develop 2-When disintegration occurs at 18", or 48" the ten largest crack-free particles selected 5 minutes subsequent to the test shall weigh no more than the equivalent weight of 10 square inched of the original test specimen. 3-When breakage occurs at 18", or 48" the stiffness and harness of the specimen shall be determined. A modulus of elasticity (see ASTM D 790-8 13) less than 750,000 psi and a Rockwell hardness (see ASTM D 785-65 1981r) less than M or R 140 shall indicate satisfactory compliance. 4-The specimen remains intact after one 48" drop test, though not necessarily remaining within the frame.					

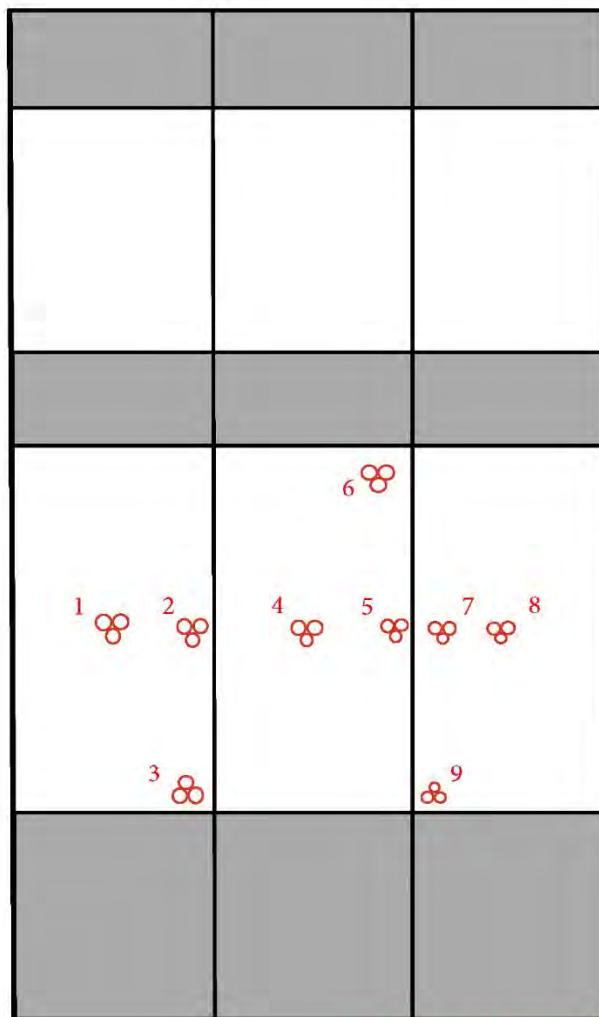


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Small Missile Impact Locations

Specimen 1



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SMALL MISSILE IMPACT DATA SHEET					
T= 82 °F	Location				Results
Shot	Area	X (in.)	Y (in.)	Keyence (ft/s)	Pass/Fail
1	CENTER	30	146	129.7	PASS
2	CENTER	39	146	130	PASS
3	CORNER	39	87	129.9	PASS
4	CENTER	75	145	130.2	PASS
5	CENTER	88	145	131	PASS
6	CORNER	88	190	129.8	PASS
7	CENTER	106	145	130	PASS
8	CENTER	119	145	129.9	PASS
9	CORNER	106	87	130.1	PASS

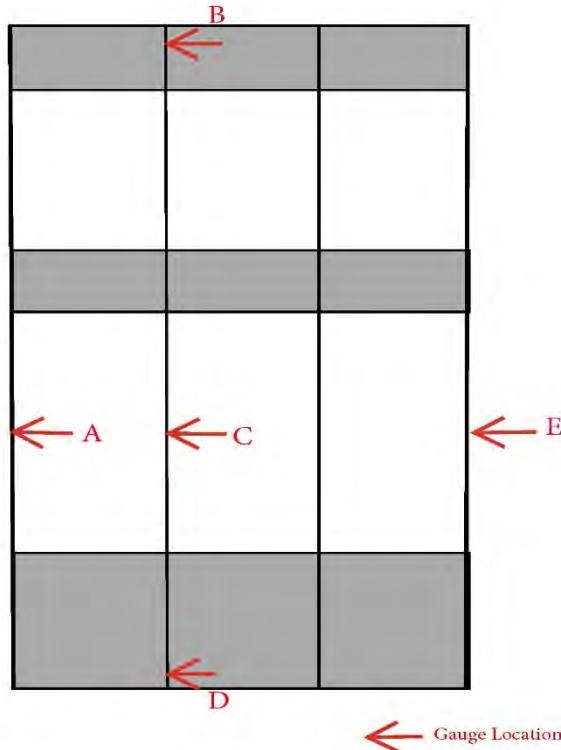


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← Gauge Locations

Specimen 1

CYCLIC LOAD DATA SHEET					Pd psf		T= 81 °F								
					High	Low									
					110.00	110.00									
Positive Pressure															
Cycles	Load Range	High Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		E		Avg time per Cycle
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
3500	20% to 50%	55	4.23	10.58	0.000	0.000	0.188	0.000	0.563	0.063	0.000	0.000	0.000	0.000	2.500
300	0% to 60%	66	0	12.69	0.000	0.000	0.250	0.000	0.813	0.000	0.000	0.000	0.000	0.000	2.900
600	50% to 80%	88	10.58	16.92	0.000	0.000	0.250	0.000	1.063	0.063	0.000	0.000	0.000	0.000	2.800
100	30% to 100%	110	6.35	21.15	0.125	0.000	0.313	0.000	1.313	0.000	0.063	0.000	0.125	0.000	3.000
Negative Pressure															
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		E		Avg time per Cycle
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	
50	30% to 100%	110	6.35	21.15	0.188	0.000	0.375	0.000	1.500	0.063	0.000	0.000	0.188	0.000	3.000
1050	50% to 80%	88	10.58	16.92	0.000	0.000	0.250	0.000	1.250	0.063	0.000	0.000	0.000	0.000	2.400
50	0% to 60%	66	0	12.69	0.000	0.000	0.125	0.000	1.063	0.000	0.000	0.000	0.000	0.000	3.000
3350	20% to 50%	55	4.23	10.58	0.000	0.000	0.125	0.000	0.875	0.000	0.000	0.000	0.000	0.000	2.900

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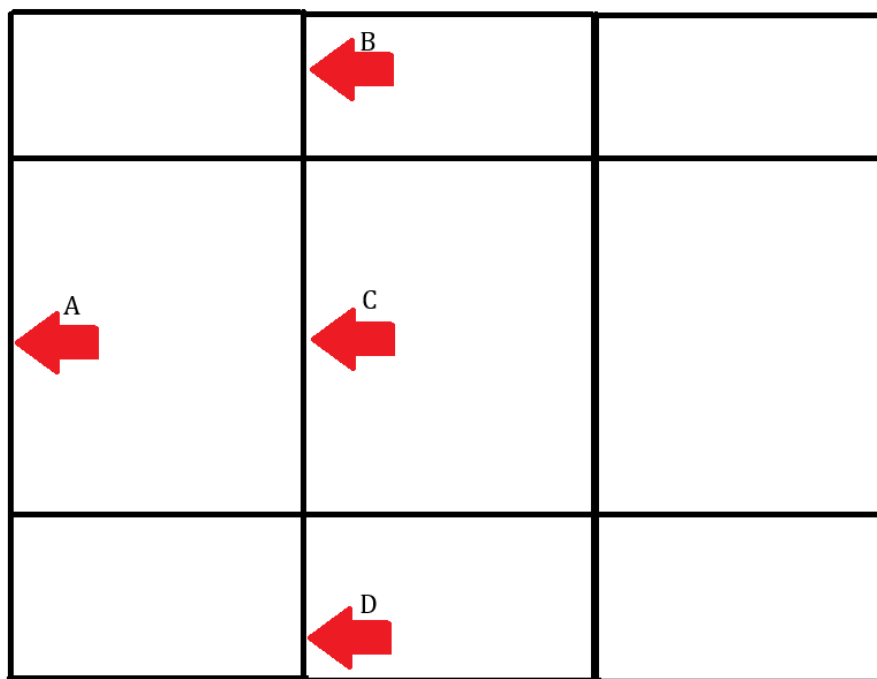


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GAUGE LOCATIONS

Specimen 2

STATIC LOAD DATA SHEET					Design Pressure Positive	Design Pressure Negative	T= 82°F							
					110.00	110.00								
					A		B		C		D		E	
Load Factor	Positive/Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
0.5TL	Positive	82.500	15.865	30.000	0.000	0.000	0.000	0.000	0.750	0.063	0.000	0.000	0.000	0.000
0.5TL	Negative	82.500	15.865	30.000	0.063	0.000	0.063	0.000	0.688	0.063	0.000	0.000	0.063	0.000
DP	Positive	110.000	21.154	30.000	0.063	0.000	0.063	0.000	1.000	0.063	0.063	0.000	0.063	0.000
DP	Negative	110.000	21.154	30.000	0.125	0.000	0.188	0.000	1.000	0.063	0.188	0.000	0.125	0.000
TL=1.5DP	Positive	165.000	31.731	30.000	0.188	0.000	0.125	0.000	1.375	0.063	0.125	0.000	0.188	0.000
TL=1.5DP	Negative	165.000	31.731	30.000	0.250	0.000	0.313	0.000	1.438	0.063	0.313	0.000	0.313	0.000

Air Infiltration Test Results

Test Pressure (psf)	Measured Flow (cfm/ft ²)	Allowed Flow (cfm/ft ²)
6.24	0.04	0.06

Water Infiltration Test Result

Test Pressure (psf)	Test Duration (min)	Water Leakage (in ³ /sec)
+16.5 (3.14 H ₂ O)	15	NONE



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Disassembly Test

Remove from the window test specimen all screws, glazing beads, and any other members or other mechanical fasteners that can be removed readily from the exterior within a time limit of 5 min using the Disassembly Test Tools List. Removal of the indicated parts shall be done carefully so as not to cause collateral damage to the specimen.

Disassembly Test Tools

*A spatula, putty knife or other non-cutting tool with a thin blade.

**Non powered straight 6" Phillips screw driver

***Standard Slot type pliers 6-7" length

PASS/FAIL: _____PASS_____

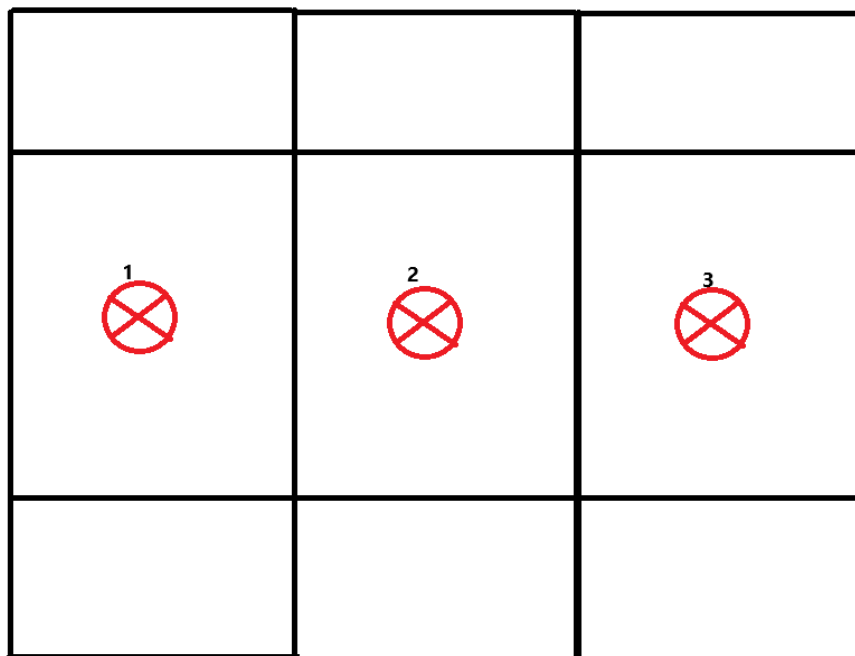


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MIAMI-DADE CERTIFICATION #21-0909.01 ISO/IEC 17025:2017 AT-2584



ANZI IMPACTS

Specimen 2

Impact 100lb ball at 400 ft*lb (48" drop height)					T=80°F
Drop Height (in)	Target	Area	Location		Results
			X (in.)	Y (in.)	
48	1	Center Glass	17	132	PASS
48	2	Center Glass	66	132	PASS
48	3	Center Glass	128	132	PASS

Notes: Coordinate origin bottom left hand corner.
Locations impacted at 48" A PASS result refers that the specimen has been deemed as satisfactory to the following criteria:
1-Numerous cracks and fissures may occur but no shear or opening through which a 3 inch diameter sphere may be freely passed shall develop
2-When disintegration occurs at 18", or 48" the ten largest crack-free particles selected 5 minutes subsequent to the test shall weigh no more than the equivalent weight of 10 square inches of the original test specimen.
3-When breakage occurs at 18", or 48" the stiffness and harness of the specimen shall be determined. A modulus of elasticity (see ASTM D 790-8 13) less than 750,000 psi and a Rockwell hardness (see ASTM D 785-65 1981r) less than M or R 140 shall indicate satisfactory compliance.
4-The specimen remains intact after one 48" drop test, though not necessarily remaining within the frame.

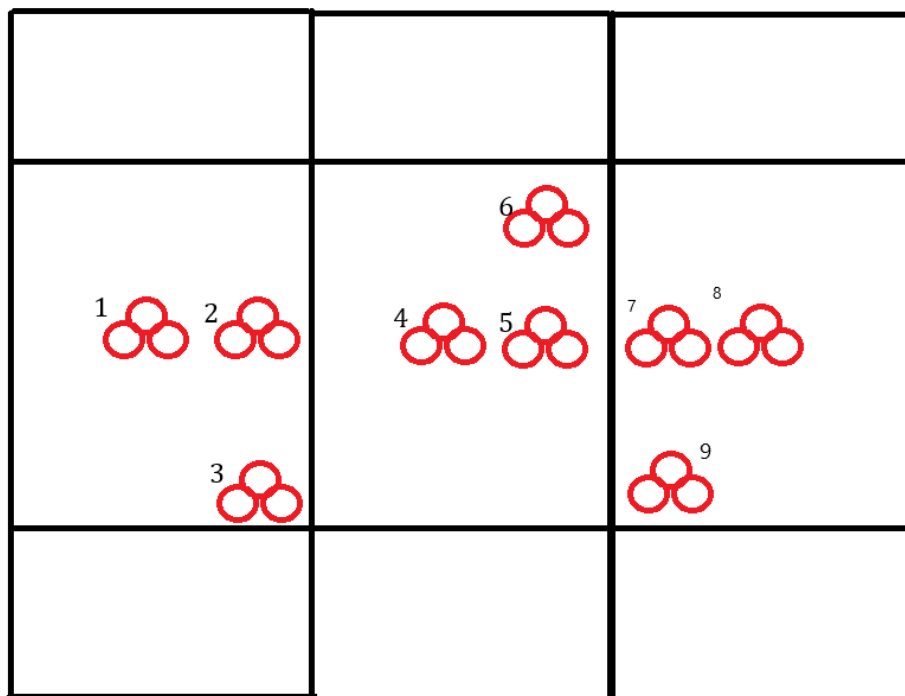


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SMALL MISSILE IMPACTS

Specimen 2

SMALL MISSILE IMPACT DATA SHEET					
T= °F	Location				Results
Shot	Area	X (in.)	Y (in.)	Keyence (ft/s)	Pass/Fail
1	CENTER	17	132	129.7	PASS
2	CENTER	30	132	129.9	PASS
3	CORNER	17	82	130	PASS
4	CENTER	66	133	130.1	PASS
5	CENTER	81	133	129.7	PASS
6	CORNER	81	82	129	PASS
7	CENTER	110	132	129.8	PASS
8	CENTER	128	132	130	PASS
9	CORNER	128	82	130.2	PASS

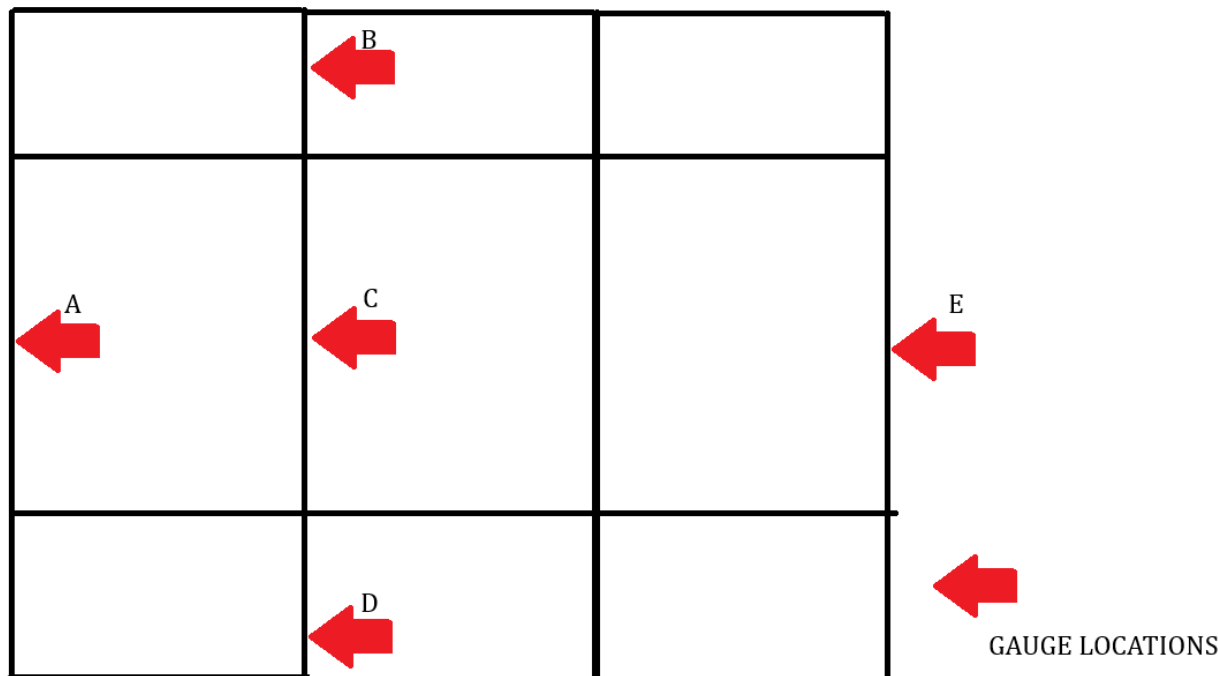


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Specimen 2

CYCLIC LOAD DATA SHEET															Pd psf		T= 82°F											
															High		Low											
															110.00		110.00											
Positive Pressure																												
Cycles	Load Range	High Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		E		Avg time per Cycle													
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)														
3500	20% to 50%	55	4.23	10.58	0.000	0.000	0.000	0.000	0.438	0.000	0.000	0.000	0.000	0.000	2.600													
300	0% to 60%	66	0	12.69	0.000	0.000	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.000	3.000													
600	50% to 80%	88	10.58	16.92	0.000	0.000	0.000	0.000	0.875	0.000	0.000	0.000	0.000	0.000	2.700													
100	30% to 100%	110	6.35	21.15	0.063	0.000	0.063	0.000	1.125	0.063	0.000	0.000	0.063	0.000	2.100													
Negative Pressure																												
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		E		Avg time per Cycle													
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)														
50	30% to 100%	110	6.35	21.15	0.125	0.000	0.188	0.000	1.250	0.063	0.188	0.000	0.125	0.000	2.700													
1050	50% to 80%	88	10.58	16.92	0.063	0.000	0.125	0.000	0.938	0.063	0.125	0.000	0.063	0.000	2.100													
50	0% to 60%	66	0	12.69	0.000	0.000	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	3.000													
3350	20% to 50%	55	4.23	10.58	0.000	0.000	0.000	0.000	0.563	0.000	0.000	0.000	0.000	0.000	2.400													

CW SYSTEM FPA TESTING SHOP DRAWING

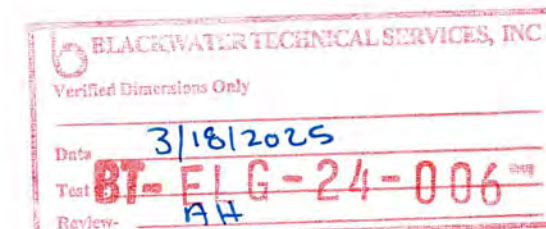
Issue Date: Nov. 27, 2024

REV:-

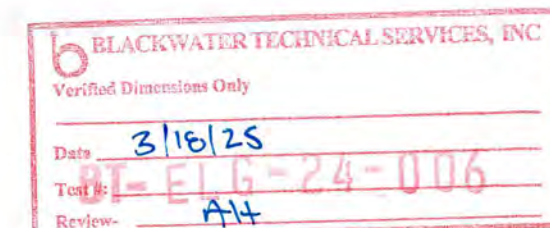
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Legend to actions: A= Approved, B=Approved as noted, resubmit for record, C=Revise and resubmit, D=Rejected, E=No action taken.



Phase: Shop Drawing

CW SYSTEM FPA TESTING GENERAL NOTES

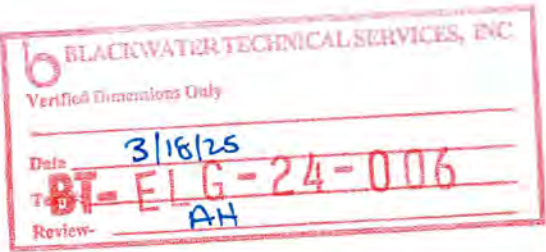
1. REFERENCE STANDARDS

- 1.1 ASTM STANDARDS (NOT LIMITED TO THE FOLLOWING)
- (1) ASTM E283
STANDARD TEST METHOD FOR DETERMINING RATE OF AIR LEAKAGE THROUGH EXTERIOR WINDOWS, CURTAIN WALLS UNDER SPECIFIED PRESSURE DIFFERENCE ACROSS THE SPECIMEN
 - (2) ASTM E331
STANDARD TEST METHOD FOR WATER PENETRATION OF EXTERIOR WINDOWS AND CURTAIN WALLS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE
 - (3) ASTM E330
STANDARD TEST METHOD FOR STRUCTURAL PERFORMANCE OF EXTERIOR WINDOWS AND CURTAIN WALLS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE
- 1.2 AAMA STANDARDS (NOT LIMITED TO THE FOLLOWING)
- (1) AAMA 501.1
STANDARD TEST METHOD FOR WATER PENETRATION OF WINDOWS AND CURTAIN WALLS USING DYNAMIC PRESSURE
 - (2) AAMA 501.4
RECOMMENDED STATIC TEST METHOD FOR EVALUATING CURTAIN WALL SUBJECTED TO SEISMIC AND WIND INDUCED INTERSTORY DRIFTS
 - (3) AAMA 501.5
TEST METHOD FOR THERMAL CYCLING OF EXTERIOR WALLS
 - (4) AAMA 503
FIELD TESTING OF CURTAIN WALLS AND FIN SYSTEMS.

2. PROPOSED MATERIALS

- 2.1 GLASS
- (1) GLASS SHALL COMPLY WITH ASTM C 1036 AND ASTM C 1048, ACCORDING TO CONTRACT, GLASS CONFIGURATION & PERFORMANCE REQUIREMENT REFER TO PROJECT SPECIFICATION AND FINAL SAMPLE SUBMISSION APPROVAL. IN THIS DRAWING PACKAGE GLASS THICKNESS HAS BEEN CHECKED BY STRUCTURAL CALCULATION.
 - (2) GLASS TYPE
GL-105A: FT 6MM CLEAR + 1.52MM PVB + FT 6MM CLEAR LAMINATED GLASS
GL-105B: HS 6MM CLEAR + 1.52MM PVB + HS 6MM CLEAR LAMINATED GLASS
 - (3) ALL TEMPERED GLASS IS TO BE HEAT-SOAK TESTED.
 - (4) All SAFETY GLASS LITES TO BE HEAT-STRENGTHENED (Type HS) LAMINATED OR FULLY-TEMPERED (Type FT).
- 2.2 ALUMINUM
- (1) ALL STRUCTURAL ALUMINUM FRAMING SHALL BE PRODUCED USING 6063 ALLOY WITH TEMPER AS NOTED IN EXTRUSION LISTING
 - (2) ALUMINUM EXTRUDED BRACKETS SHALL BE PRODUCED USING 6005A T61 OR 6061 T6 OR EQUAL. UNLESS OTHERWISE NOTED.
 - (3) ALUMINUM PANEL SHEET SHALL BE PRODUCED USING 3003 ALLOY WITH H14 TEMPER. UNLESS OTHERWISE NOTED.
 - (4) ALUMINUM COMPONENTS COMPLY WITH THE REQUIREMENTS OF STANDARDS:
-ASTM B209M FOR SHEET AND PLATE.
-ASTM B221M FOR EXTRUDED BARS, RODS, SHAPES AND TUBES.
-ASTM 429M FOR EXTRUDED STRUCTURAL PIPE AND TUBES.
- 2.3 ALUMINUM FINISHES
- (1) ALL VISUALLY EXPOSED EXTERNAL SURFACES :HIGH-PERFORMANCE POWDER COATING COMPLYING WITH AAMA 2605
 - (2) ALL VISUALLY EXPOSED INTERNAL SURFACES: POWDER-COAT MEETING AAMA 2604

- 2.4 STEEL
- (1) MILD STEEL PLATE AND SECTION SHALL BE GRADE A36 OR A500 COMPLYING WITH ASTM A36.
 - (2) STEEL BRACKET REINFORCEMENT AND ANCHORAGE SHALL BE HOT DIP GALVANIZED AFTER FABRICATION (2 OZ/FT2 MIN. COATING THICKNESS),COMPLYING WITH ASTM A 123. PAINT WITH BITUMEN OR POWDER COATING WHERE IN DIRECT CONTACT WITH MILL FINISH ALUMINUM.
- 2.5 FASTENER
- (1) ALL FASTENERS OUTBOARD OF WEATHER LINE SHALL BE STAINLESS STEEL TYPE 316. (SCREWS, BOLTS, WASHERS, NUTS, AND PINS)
 - (2) ALL EXPOSED FASTENERS SHOULD BE COUNTERSUNK, FLUSH HEAD,CUSTOM COATED TO MATCH CW MULLION OR ADJACENT METAL FINISH.
- 2.6 GASKETS AND GLAZING ACCESSORIES
- (1) AIR SEAL WIPER GASKET - EXTRUDED, DENSE SILICONE - 65 ± 5 DUROMETER SHORE A. COLOR: BLACK
 - (2) GASKET (STRUCTURAL SEALANT SPACER) - EXTRUDED, DENSE SILICONE - 65± 5 DUROMETER SHORE A. COLOR: BLACK
 - (3) SETTING BLOCK - EXTRUDED, DENSE SILICONE - 85 ± 5 DUROMETER SHORE A. COLOR: BLACK
- 2.7 SEALANTS
- (1) ALL SILICONE SEALANTS SHALL BE FROM DOWSIL.
COMPATIBILITY AND ADHESION TESTING FOR SILICONE WITH ALL SUBSTRATES.WILL BE PROVIDED BY THE SEALANT MANUFACTURER
 - (2) ALL SHOP APPLIED STRUCTURAL SEALED JOINTS SHALL BE (2 PART) HIGH STRENGTH, HIGH MODULUS SILICONE SEALANT COMPLYING WITH ASTM C 1184.
 - (3) ALL FIELD APPLIED PERIMETER SEAL SHALL BE (1 PART) SILICONE.
 - (4) ALL FIELD APPLIED JOINT SEAL AND SHOP APPLIED JOINT SEAL SHALL BE (1 PART) SILICONE.
- 2.8 DESIGNED STRUCTURE TOLERANCE
- 1.FACE OF SLAB IN/OUT POSITION:±1/4" ON 10'-0"
 - 2.TOP OF SLAB UP/DOWN POSITION:±1/2" ON 10'-0"
 - 3.MAXIMUM NOT TO EXCEED ±1" IN PLAN, ± 1/2" VERTICAL ±1" STRUCTURAL OPENING.



Job No.:
Key Plan/Elevation:



No.	Date	Description
Revisions:		

Owner:

Architect:

Facade Consultant:

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Project:

Title:
GENERAL NOTES

Sheet No.: GN-201	
Date: Nov. 27, 2024	Revision No.: -
Scale: 6"=1'-0"	Size: 22"x34"
Phase: Shop Drawing	

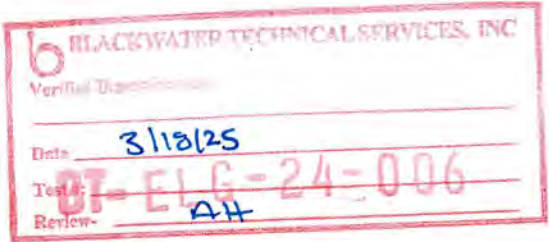
CW SYSTEM FPA TESTING GENERAL NOTES

3. PERFORMANCE REQUIREMENTS

TAS-202 TEST SCHEDULE				
ITEM	TEST	PROCEDURE	LOAD	PASS/FAIL CRITERIA
1	AIR	TAS 202	6.24 PSF	MAX. 0.06 CFM/FT2 FOR WINDOWS 0.2 CFM/FT2. FOR DOORS, 0.1 CFM/FT2 FOR POWER OPERATED DOORS
2	STRUCTURAL	TAS 202	0.5 X POSITIVE DESIGN PRESSURE (30 SEC.)	
3	STRUCTURAL	TAS 202	POSITIVE DESIGN PRESSURE (30 SEC.)	NO GLASS BREAKAGE, MAX. DEFLECTION= L/180
4	STRUCTURAL	TAS 202	0.5 X NEGATIVE DESIGN PRESSURE (30 SEC.)	
5	STRUCTURAL	TAS 202	NEGATIVE DESIGN PRESSURE (30 SEC.)	NO GLASS BREAKAGE, MAX. DEFLECTION= L/180
6	WATER	TAS 202	15% OF DESIGN POSITIVE PRESSURE PSF NOT LESS THAN 15PSF (15MIN.)	NO WATER INFILTRATION
7	STRUCTURAL	TAS 202	1.5 X NEGATIVE DESIGN PRESSURE (30 SEC.)	NO GLASS BREAKAGE, MAX. PERMANENT DEFORMATION= 0.4% OF CLEAR SPAN
8	STRUCTURAL	TAS 202	1.5 X POSITIVE DESIGN PRESSURE (30 SEC.)	NO GLASS BREAKAGE, MAX. PERMANENT DEFORMATION= 0.4% OF CLEAR SPAN
TAS-201/203 TEST SCHEDULE				
9	LMI, LEVEL E AND SMI	TAS-201	LARGE MILLILE LEVEL D=(9LB 2X4) AT 50 FPS, LEVEL E=(9LB 2X4) AT 80 FPS, FOR SMI=2G STEEL BALL SHOT AT 130 FT/SECOND IN A PRESCRIBED ARRAY.	NO PENETRATION
10	CYCLE	TAS-203	POSITIVE RANGE FOR 4500 CYCLES UP TO DESIGN PRESSURE SEE BELOW	NO TEAR >5" OR NO OPENING THAT ALLOWS 3" DIA. SPHERE CAN PASS
11	CYCLE	TAS-203	NEGATIVE RANGE FOR 4500 CYCLES UP TO DESIGN PRESSURE SEE BELOW	NO TEAR >5" OR NO OPENING THAT ALLOWS 3" DIA. SPHERE CAN PASS

Cycle sequence for item 10 and 11

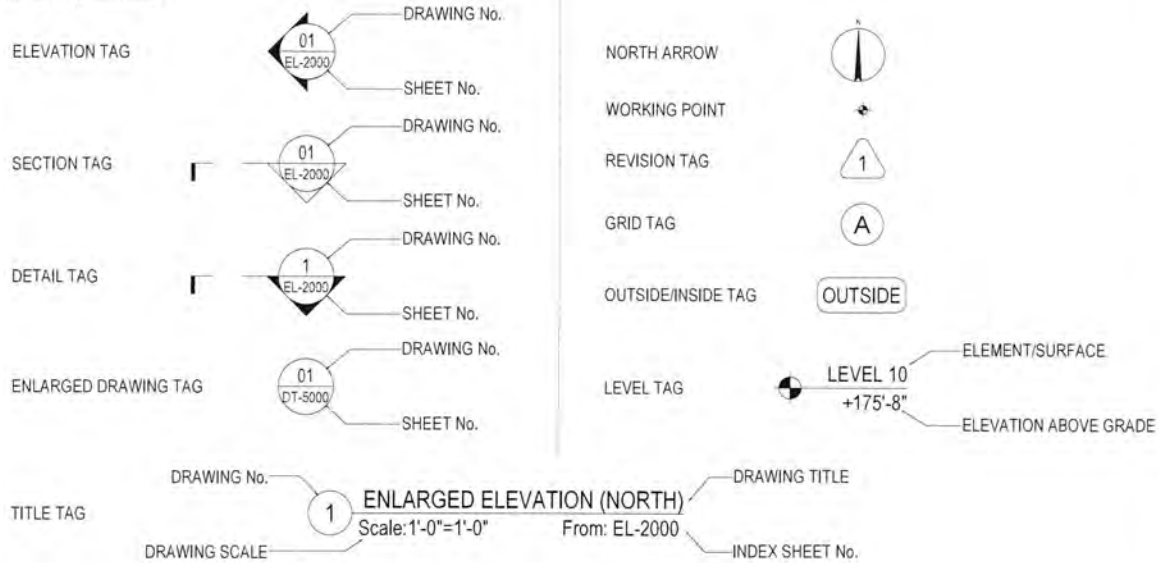
INWARD ACTING PRESSURE		OUTWARD ACTING PRESSURE	
RANGE	NUMBER OF CYCLES ¹	RANGE	NUMBER OF CYCLES ¹
0.2 P _{MAX} TO 0.5 P _{MAX} ²	3500	0.3 P _{MAX} TO 1.0 P _{MAX}	50
0.0 P _{MAX} TO 0.6 P _{MAX}	300	0.5 P _{MAX} TO 0.8 P _{MAX}	1050
0.5 P _{MAX} TO 0.8 P _{MAX}	600	0.0 P _{MAX} TO 0.6 P _{MAX}	50
0.3 P _{MAX} TO 1.0 P _{MAX}	100	0.2 P _{MAX} TO 0.5 P _{MAX}	3350



4. ABBREVIATIONS

S.T. — SELF TAPPING SCREW	DIM. — DIMENSION	SF — SQUARE FEET
S.M.S. — SHEET METAL SCREW	L.G. — LONG	SIM. — SIMILAR
H.W.H. — HEX WASHER HEAD SCREW	MAX. — MAXIMUM	SQ. — SQUARE
H.H. — HEX HEAD SCREW	MIN. — MINIMUM	S.S. — STAINLESS STEEL
P.H. — PAN HEAD SCREW	MS — MACHINE SCREW	THK. — THICKNESS
F.H. — FLAT HEAD SCREW	NO. — NUMBER	TYP. — TYPICAL
G.M.S. — GALVANIZED MILD STEEL	N.T.S. — NOT TO SCALE	U.H. — UNIT HEIGHT
B.M.U. — BUILDING MAINTENANCE UNIT TIEBACK	PSF — POUNDS PER SQUARE FEET	W/ — WITH
S.D. — SELF DRILL	PVC — POLYVINYLCHLORIDE	W.P. — WORK POINT
HS — HEAT STRENGTHENED	QTY. — QUANTITY	C.O. — CLEAR OPENING
FT — TEMPERED	GR — GRADE	F.O. — FRAME OPENING
PPC — POLYESTER POWDER COATED	O.C. — ON CENTRAL	T.O.S. — TOP OF SLAB

5. SYMBOLS



Job No.:

Key Plan/Elevation:



No. Date Description

Revisions:

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Facade Consultant:

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GENERAL NOTES

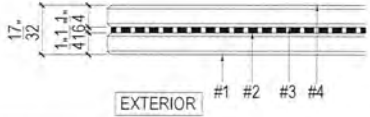
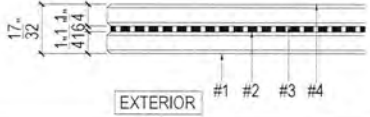
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Date: Nov. 27, 2024 Revision No.: -

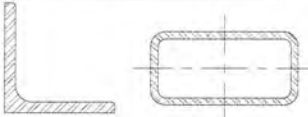
Scale: 6"=1'-0" Size: 22"x34"

Phase: Shop Drawing

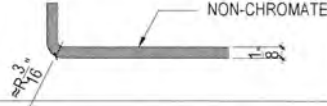
1.MATERIAL LIST OF GLASS

LEGEND NUMBER	MATERIAL	SECTION
GL-105A	GL-105A: VISION GLASS L-105A: FT 6MM CLEAR + 1.52MM PVB + FT 6MM CLEAR LAMINATED GLASS	
GL-105B	GL-105B: VISION GLASS GL-105B: HS 6MM CLEAR + 1.52MM PVB + HS 6MM CLEAR LAMINATED GLASS	

2.MATERIAL LIST OF STEEL

SL01	STEEL HOLLOW FINISH:HOT-DIP GALVANIZED COATING GRADE COMPLY WITH ASTM A123	
SL02	STEEL PLATE FINISH:HOT-DIP GALVANIZED COATING GRADE COMPLY WITH ASTM A123	
SL03	STAINLESS STEEL MATERIAL: 316	

3.MATERIAL LIST OF METAL PANEL

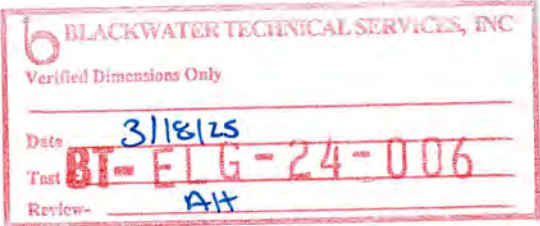
LEGEND NUMBER	MATERIAL DESCRIPTION	SECTION
MP-01	1/8" (3mm) THICK ALUMINUM PANEL ALLOY: 3003-H14 FINISH: NON-CHROMATE COLOR: -	
MP-02	0.039" (1.0mm) THICK STEEL SHEET FINISH: HOT-DIP GALVANIZED COATING THICKNESS: TOTAL BOTH SIDES 80g/m² (COMPLY WITH ASTM A 653/A 653M, G30)	

4.SEALANT MATERIAL LIST

S01	WEATHER SEALANT BRAND: DOW TYPE: DOWSILL 791 COLOR: BLACK	
S02	STRUCTURAL SEALANT BRAND: DOW TYPE: DOWSILL 983 COLOR: BLACK	
S03	STRUCTURAL SEALANT BRAND: DOW TYPE: DOWSILL 795 COLOR: BLACK	

5.MISCELLANEOUS MATERIAL LIST

M01	BI-CELLUAR BACKER ROD	
M02	DOUBLE-SIDED ADHESIVE TAPE	
M03	OPEN CELL WEEP BAFFLE	
M05	SILICONE PLUG (BED SEALED)	
M06	2mm THK. S.S 316 FLAT WASHER(FOR THE GA12108)	



Job No.:

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MATERIAL LIST
GLASS \ STEEL & METAL PANEL

Sheet No.: ML-036

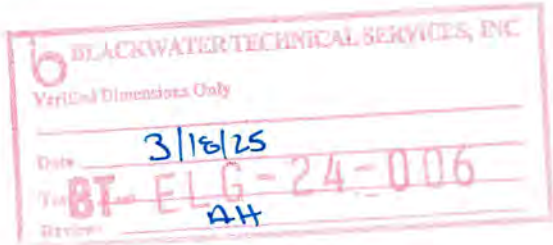
Date: Nov. 27, 2024 Revision No.: -

Scale: 1'-0"=1'-0" Size: 22"x34"

Phase: Shop Drawing

4.MATERIAL LIST OF GASKET AND THERMAL BREAK AND SETTING-BLOCK

TAG	DIAGRAM	SCALE	DIE NO.	MATERIAL/COLOR/DUROMETER
GA01140		1:1	GA01140	SILICONE (BLACK)A65°±5°
GA01144		1:1	GA01144	SILICONE (BLACK)A65°±5°
GA01150		1:1	GA01150	SILICONE (BLACK)A65°±5°
GA04102		1:1	GA04102	SILICONE (BLACK)A65°±5°
GA05166		1:1	GA05166	SILICONE (BLACK)A65°±5°
GA05203		1:1	GA05203	SILICONE (BLACK)
GA07149		1:1	GA07149	SILICONE (BLACK)A65°±5°
GA06116		1:3	GA06116	SILICONE (TRANSLUCENT)A65°±5°
GA06110		1:2	GA06110	SILICONE (BLACK)A65°±5°
GA06202		1:2	GA06202	EPDM FOAM (BLACK)A7±2
GA04201		1:1	GA04201	RIGID PVC (BLACK)D80±5°
GA12108		1:1	GA12108	PA66+GF25 D85°±5°
GA01		1:1	14x4mm	SILICONE (BLACK)A85°±5°
GA02		1:1	15x2mm	SILICONE (BLACK)A85°±5°
GA03		1:1	24x6mm	SILICONE (BLACK)A85°±5°
GA04		1:1	22x4mm	SILICONE (BLACK)A85°±5°
GA05		1:1	20x10mm	SILICONE (BLACK)A85°±5°



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Title:
MATERIAL LIST
GASKET/ SEALANT/ INSULATION
& MISCELLANEOUS MATERIAL

Sheet No.: ML-037

Date: Nov. 27, 2024 Revision No.: -

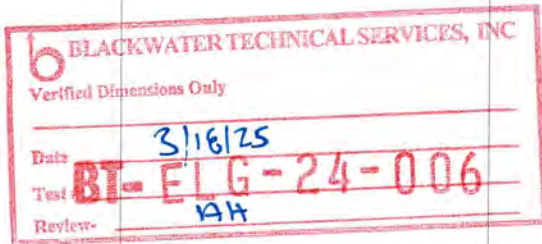
Scale: 1'-0"=1'-0" Size: 22"x34"

Phase: Shop Drawing

8.MATERIAL LIST OF FASTENERS

TAG	DIAGRAM	DESCRIPTION	GRADE	MATERIAL/FINISH
F1457		M12X40mm H.H. BOLT (FULL THREAD) W/ FLAT WASHER SPRING WASHER AND NUT	S.S. 316	STAINLESS STEEL
F1459		M12X50mm H.H. BOLT (FULL THREAD) W/ FLAT WASHER SPRING WASHER AND NUT	S.S. 316	STAINLESS STEEL
F2448		ST6.3x38mm HEX HEAD S.T. SCREW	S.S. 316	STAINLESS STEEL
F3007		ST4.2x13mm PAN-HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3008		ST4.2x16mm PAN-HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3009		ST4.2x19mm PAN-HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3020		ST4.8x19mm PAN-HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3208		ST4.2x16mm FLAT-HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3209		ST4.2x19mm FLAT-HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3220		ST4.8x19mm FLAT-HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3443		ST6.3x38mm HEX HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F4007		M5X25mm CROSS RECESSED PAN HEAD SCREW	S.S. 316	STAINLESS STEEL
F4016		M6X16mm CROSS RECESSED PAN HEAD SCREW	S.S. 316	STAINLESS STEEL
F4015		M6X12mm CROSS RECESSED PAN HEAD SCREW	S.S. 316	STAINLESS STEEL
F4033		M8X12mm CROSS RECESSED PAN HEAD SCREW	S.S. 316	STAINLESS STEEL
F4204		M5X12mm CROSS REVEDDED COUNTERSUNK HEAD SCREW	S.S. 316	STAINLESS STEEL
F4205		M5X16mm CROSS REVEDDED COUNTERSUNK HEAD SCREW	S.S. 316	STAINLESS STEEL
F4208		M5X30mm CROSS REVEDDED COUNTERSUNK HEAD SCREW	S.S. 316	STAINLESS STEEL

TAG	DIAGRAM	DESCRIPTION	GRADE	MATERIAL/FINISH
F5057		M16x25 HEXAGON SOCKET HEAD FLATNENS SET BOLT	S.S. 316	STAINLESS STEEL
F3436		ST6.3x50mm HEX HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3432		ST5.5x25mm HEX HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F3441		ST6.3x25mm HEX HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F4830		M8X30mm HEXAGON SOCKET COUNTERSUNK HEAD SCREW	S.S. 316	STAINLESS STEEL
F3429		ST5.5x16mm HEX HEAD S.D. SCREW	S.S. 316	STAINLESS STEEL
F4862		M12X40mm HEXAGON SOCKET COUNTERSUNK HEAD SCREW	S.S. 316	STAINLESS STEEL
FA01		5/8"-11x3" TAP-FLEX STRUCTURAL SCREWS	GRADE 5	Material:Alloy steel FINISH:Silver Stalgard @ SUB coating
FA04		M6 WELDED STUDS W/ FLAT WASHER SPRING WASHER AND NUT		ALUM.
FA05		5/8"-11x4" TAP-FLEX STRUCTURAL SCREWS	GRADE 5	Material:Alloy steel FINISH:Silver Stalgard @ SUB coating



Job No.:

Key Plan/Elevation:



No. Date Description

Revisions:

Owner:

Architect:

Facade Consultant:

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Title:

MATERIAL LIST
FASTENERS

Sheet No.: ML-038

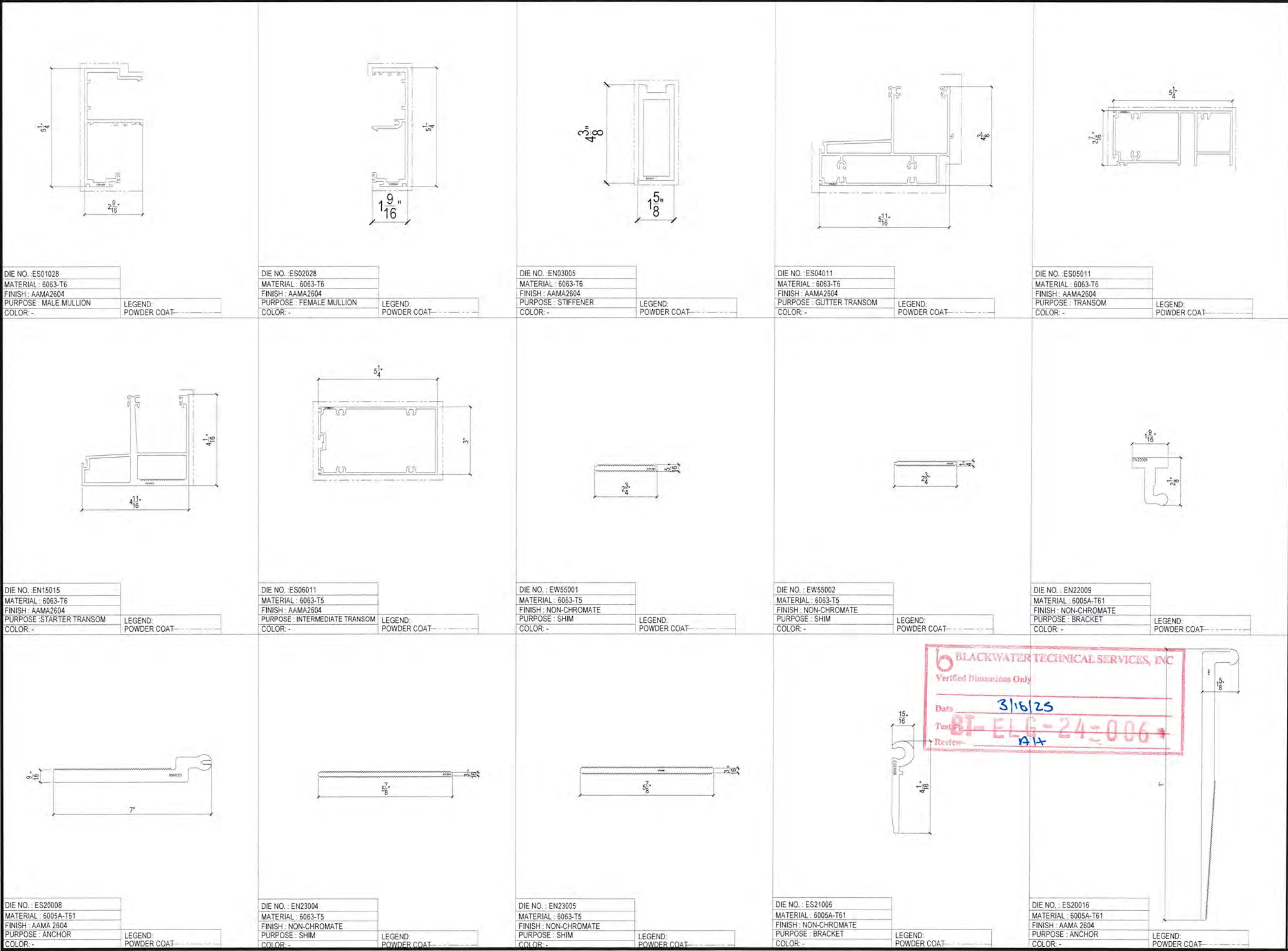
Date: Nov. 27, 2024

Revision No.: -

Scale: 1'-0"=1'-0"

Size: 22"x34"

Phase: Shop Drawing



Job No.:
Key Plan/Elevation:

Revisions:

No.	Date	Description
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Owner:

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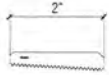
Title: MATERIAL LIST
Aluminum Extrusion

Sheet No.: ML-039

Date	Revision No.
Nov. 27, 2024	-

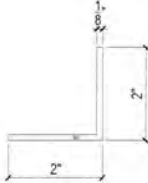
Scale: 6"=1'-0" Size: 22"x34"

Phase: Shop Drawing



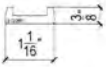
DIE NO. : ES23003
MATERIAL : 6005A-T61
FINISH : NON-CHROMATE
PURPOSE : WASHER
COLOR: -

LEGEND:
POWDER COAT-----



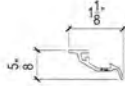
DIE NO. : 1330
MATERIAL : 6063-T5
FINISH : NON-CHROMATE
PURPOSE : ANGLE
COLOR: -

LEGEND:
POWDER COAT-----



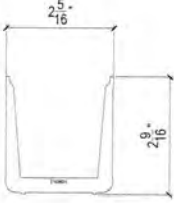
DIE NO. : ES22001
MATERIAL : 6005A-T61
FINISH : NON-CHROMATE
PURPOSE : ANCHOR SLEEVE
COLOR: -

LEGEND:
POWDER COAT-----



DIE NO. : EW12002
MATERIAL : 6063-T6
FINISH : NON-CHROMATE
PURPOSE : ANTI-BUCKLING CLIP
COLOR: -

LEGEND:
POWDER COAT-----



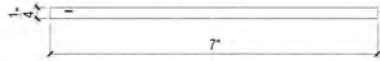
DIE NO. : ES08024
MATERIAL : 6005A-T61
FINISH : NON-CHROMATE
PURPOSE : GUTTER SLEEVE
COLOR: -

LEGEND:
POWDER COAT-----



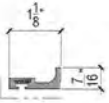
DIE NO. : 1308
MATERIAL : 6063-T5
FINISH : NON-CHROMATE
PURPOSE : ANGLE
COLOR: -

LEGEND:
POWDER COAT-----



DIE NO. : ES55003
MATERIAL : 6063-T6
FINISH : NON-CHROMATE
PURPOSE : BAR
COLOR: -

LEGEND:
POWDER COAT-----



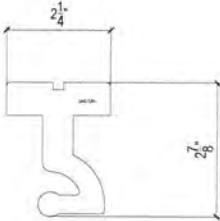
DIE NO. : -
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FINISH : NON-CHROMATE
PURPOSE : BAR
COLOR: -

LEGEND:
POWDER COAT-----



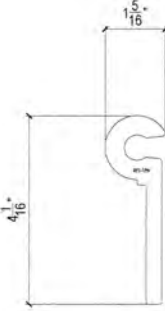
DIE NO. : EN13013
MATERIAL : 6063-T5
FINISH : AAMA2604
PURPOSE : CAP
COLOR: -

LEGEND:
POWDER COAT-----



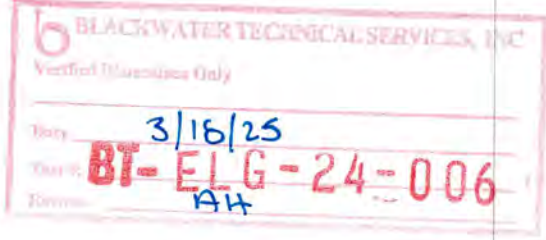
DIE NO. : W57-240
MATERIAL : 6005A-T61
FINISH : NON-CHROMATE
PURPOSE : BRACKET
COLOR: -

LEGEND:
POWDER COAT-----



DIE NO. : W57-239
MATERIAL : 6005A-T61
FINISH : NON-CHROMATE
PURPOSE : BRACKET
COLOR: -

LEGEND:
POWDER COAT-----



Job No.:

Key Plan/Elevation:



No.	Date	Description

Revisions:

Owner:

Architect:

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Project:

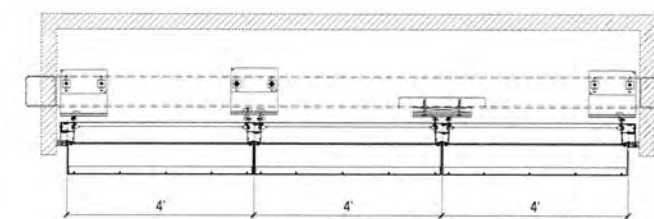
Title:

MATERIAL LIST
Aluminum Extrusion

Sheet No.: ML-040

Date: Nov. 27, 2024	Revision No.: -
Scale: 6"=1'-0"	Size: 22"x34"

Phase: Shop Drawing



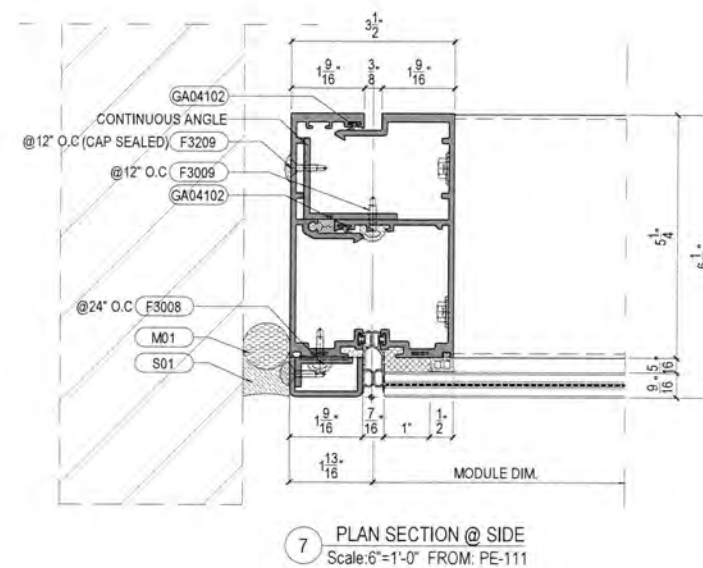
Phase: Shop Drawing

6 BLACKWATER TECHNICAL SERVICES, INC.
Verified Dimensions Only

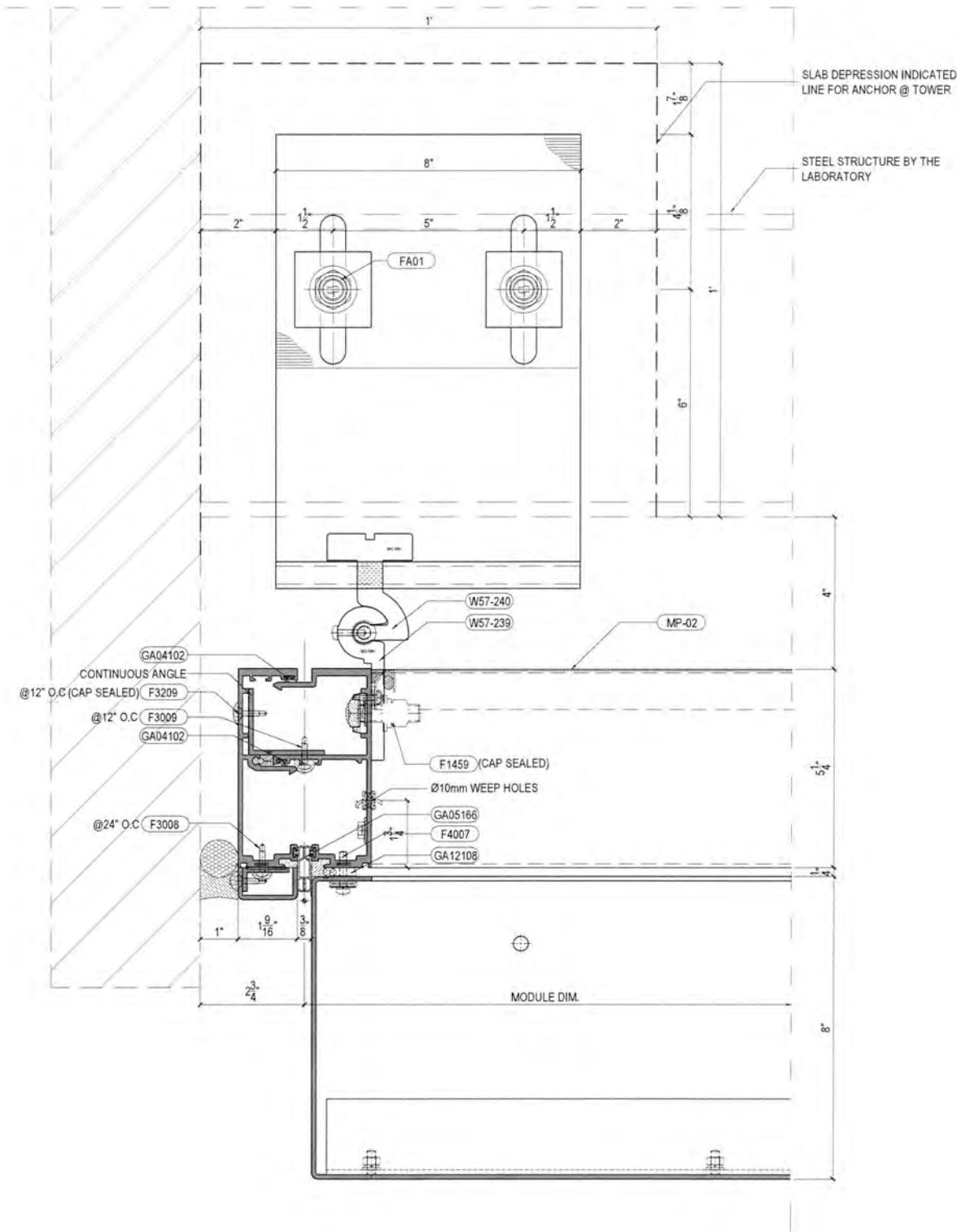
Date 3/16/25

Test #: BT-ELG-24-006

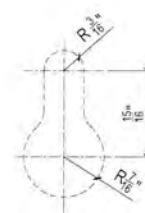
Review: AH



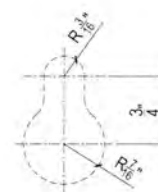
Phase: Shop Drawing



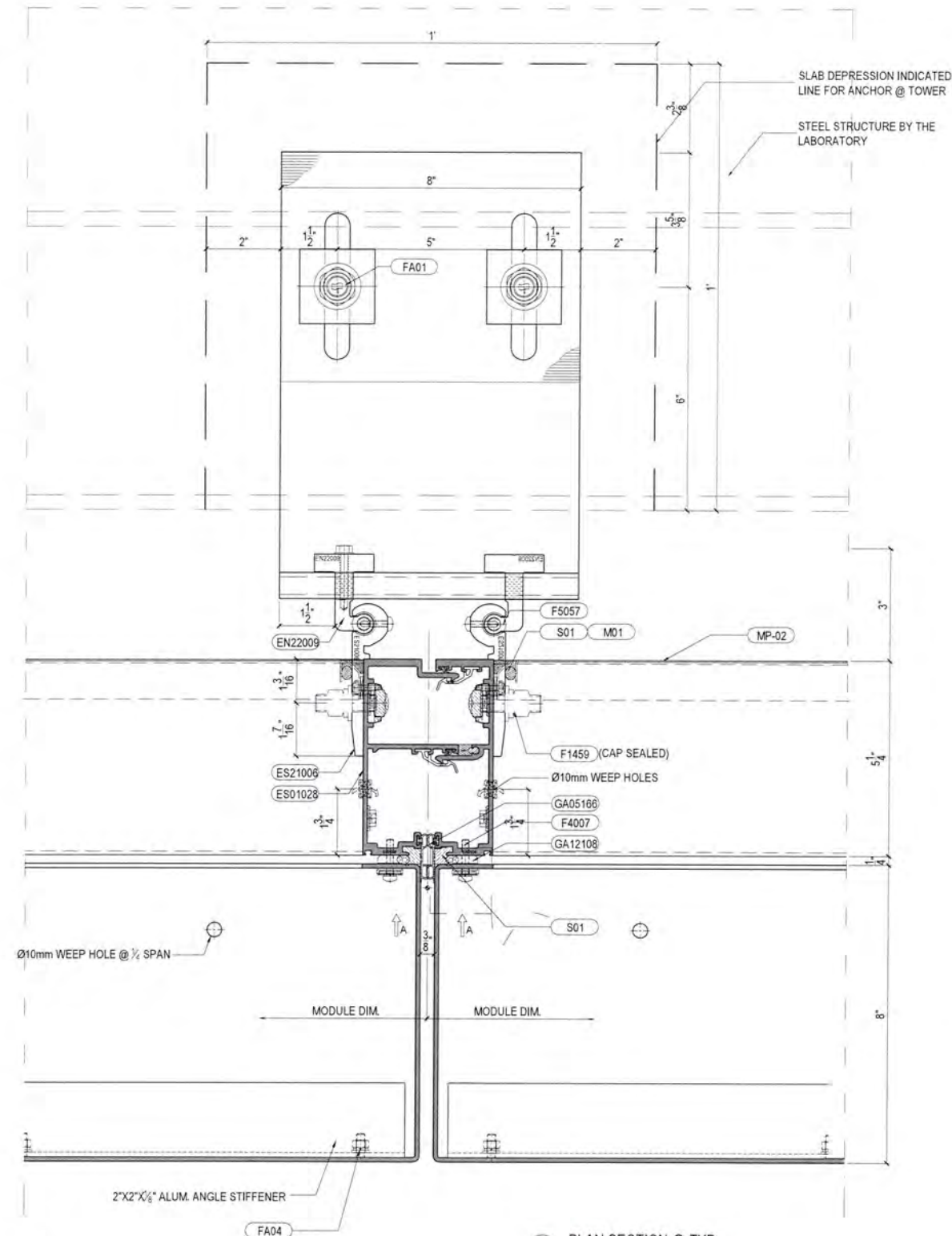
1 PLAN SECTION @ SIDE
Scale: 6"=1'-0" FROM: PE-111



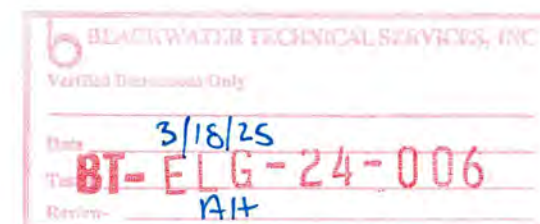
VIEW-A KEY HOLE FOR W.L.
SCALE 1'-0"=1'-0"



VIEW-A KEY HOLE FOR D.L.
SCALE 1'-0"=1'-0"



2 PLAN SECTION @ TYP
Scale: 6"=1'-0" FROM: PE-111



Job No.:

Key Plan/Elevation:



No.	Date	Description
Revisions:		

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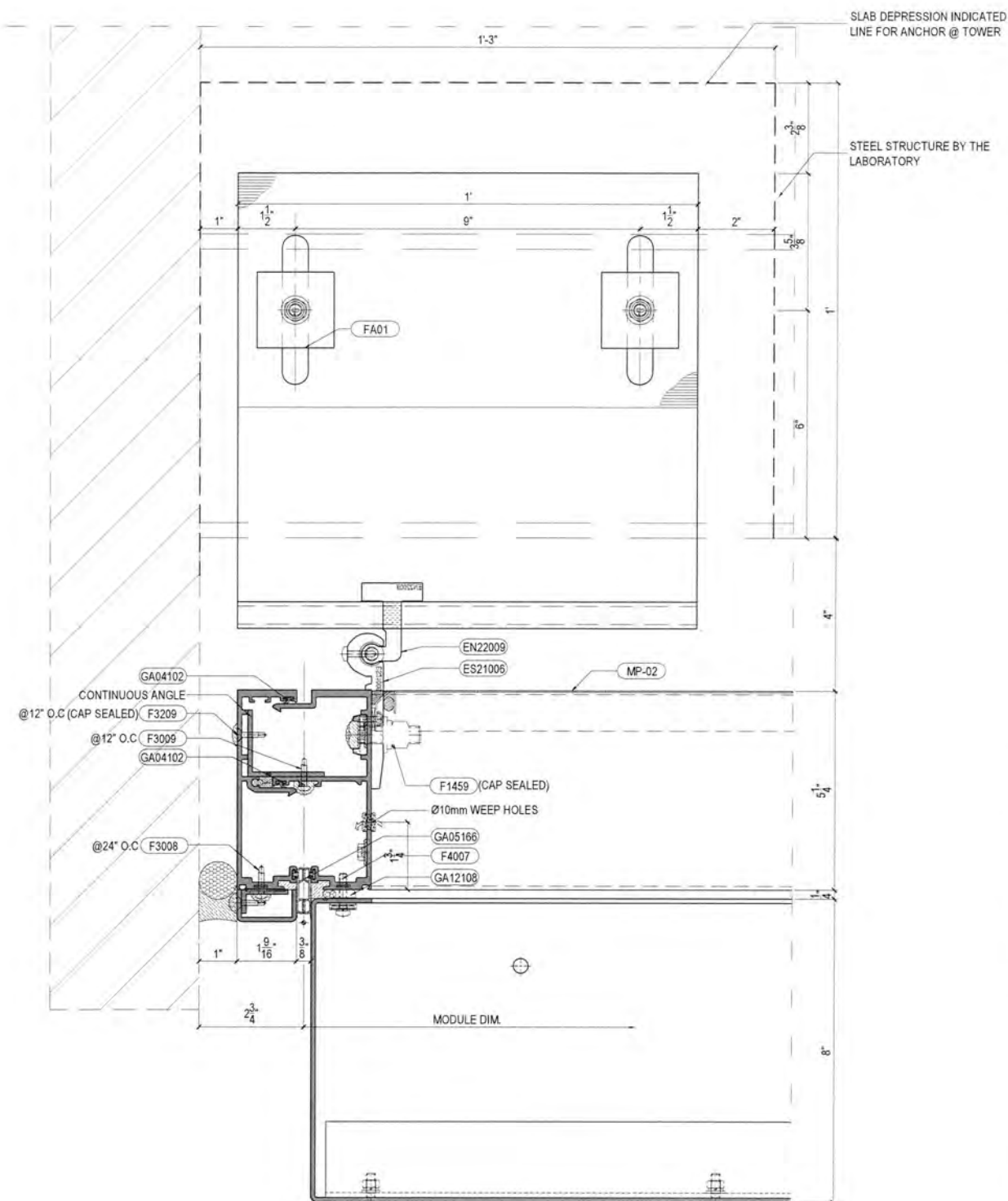
Title:
HORIZONTAL SECTION DETAIL

Sheet No.: DT-531

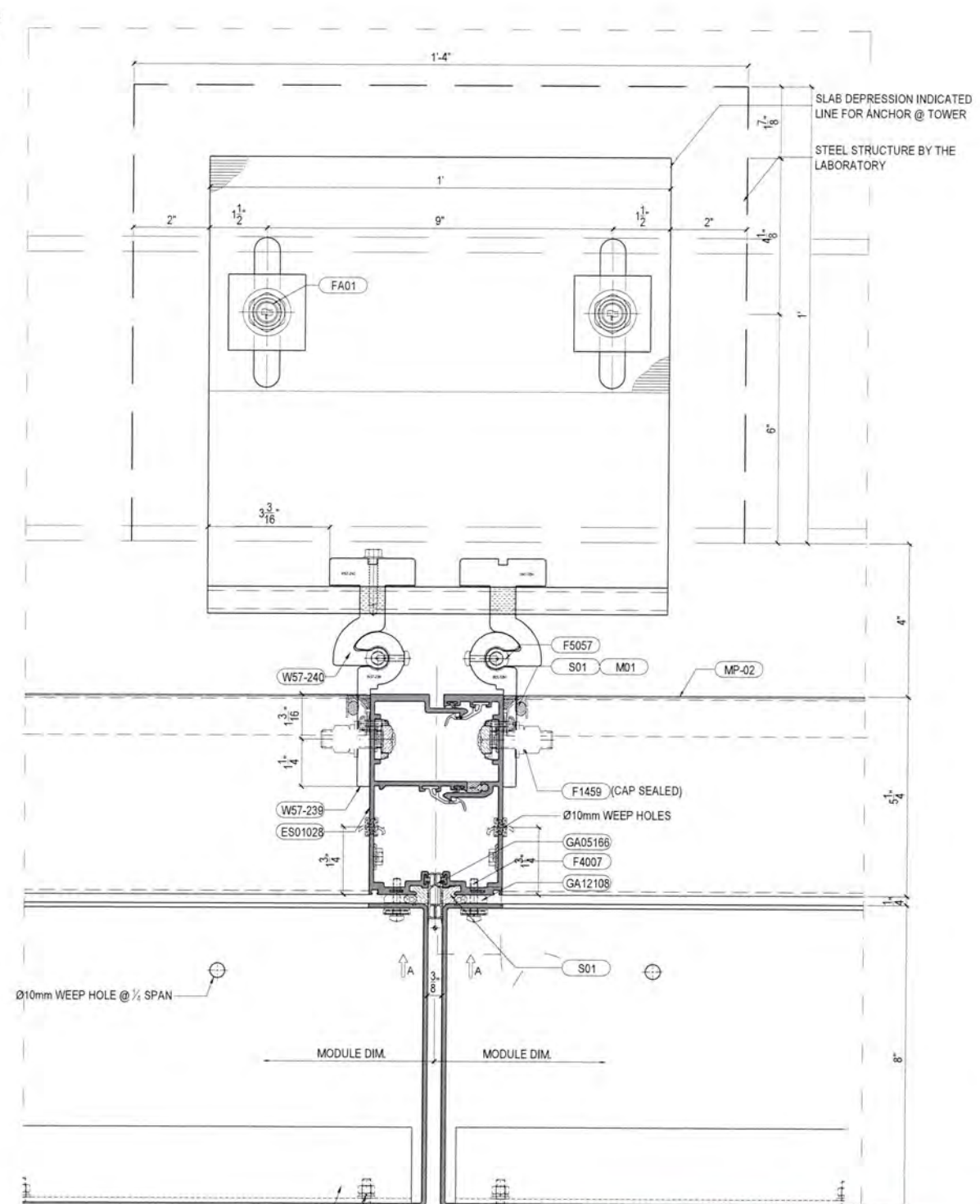
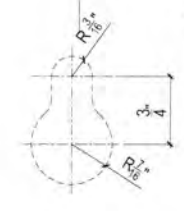
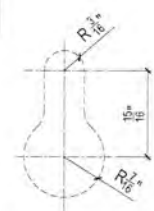
Date: Nov. 27, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

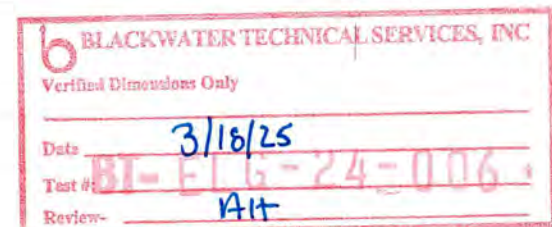
Phase: Shop Drawing



1 PLAN SECTION @ SIDE
Scale: 6"=1'-0" FROM: PE-110



2 PLAN SECTION @ TYP
Scale: 6"=1'-0" FROM: PE-110



Job No.:
Key Plan/Elevation:



No.	Date	Description
Revisions:		

Owner:

Architect:

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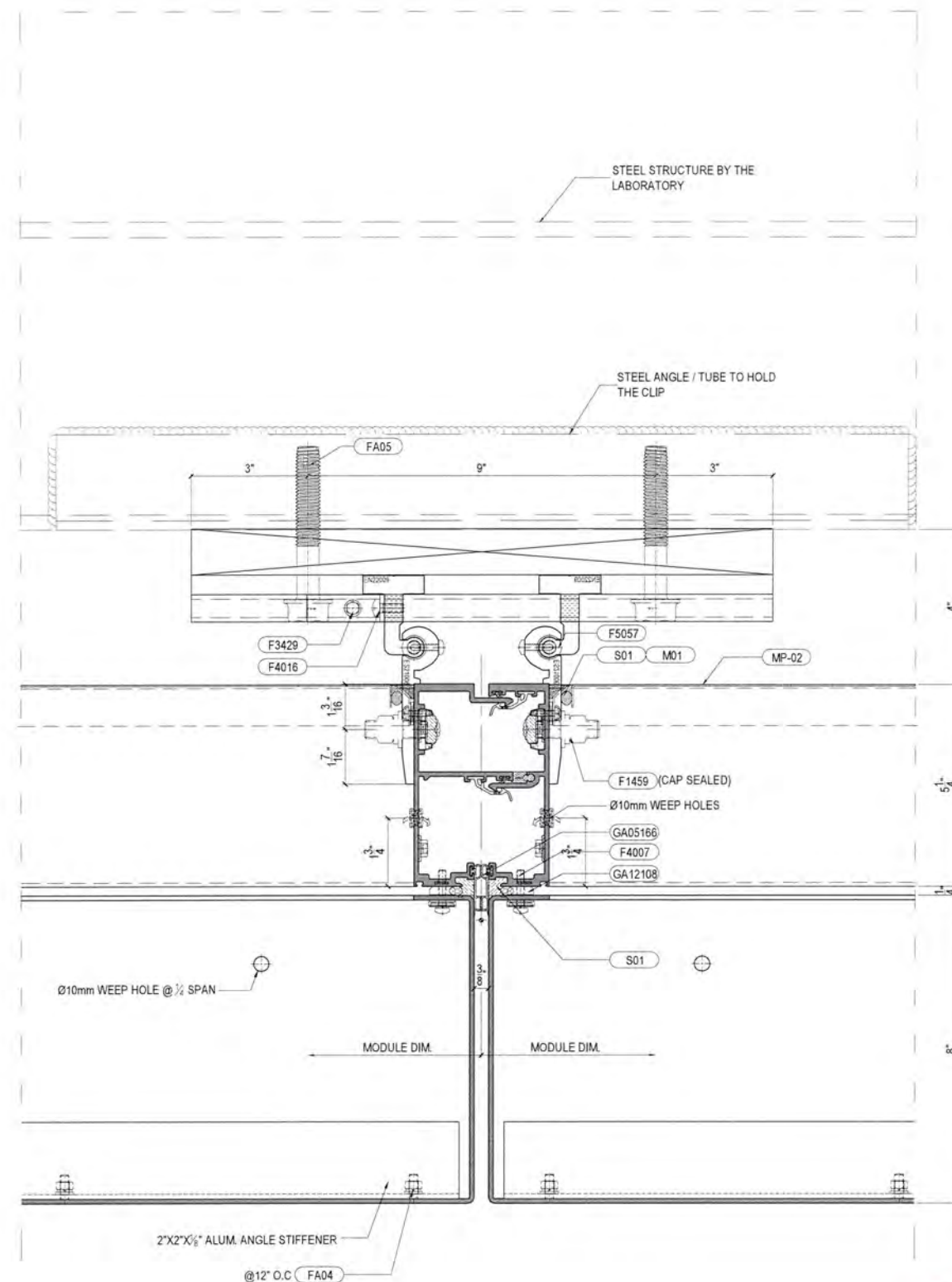
Title:
HORIZONTAL SECTION DETAIL

Sheet No.: DT-531B

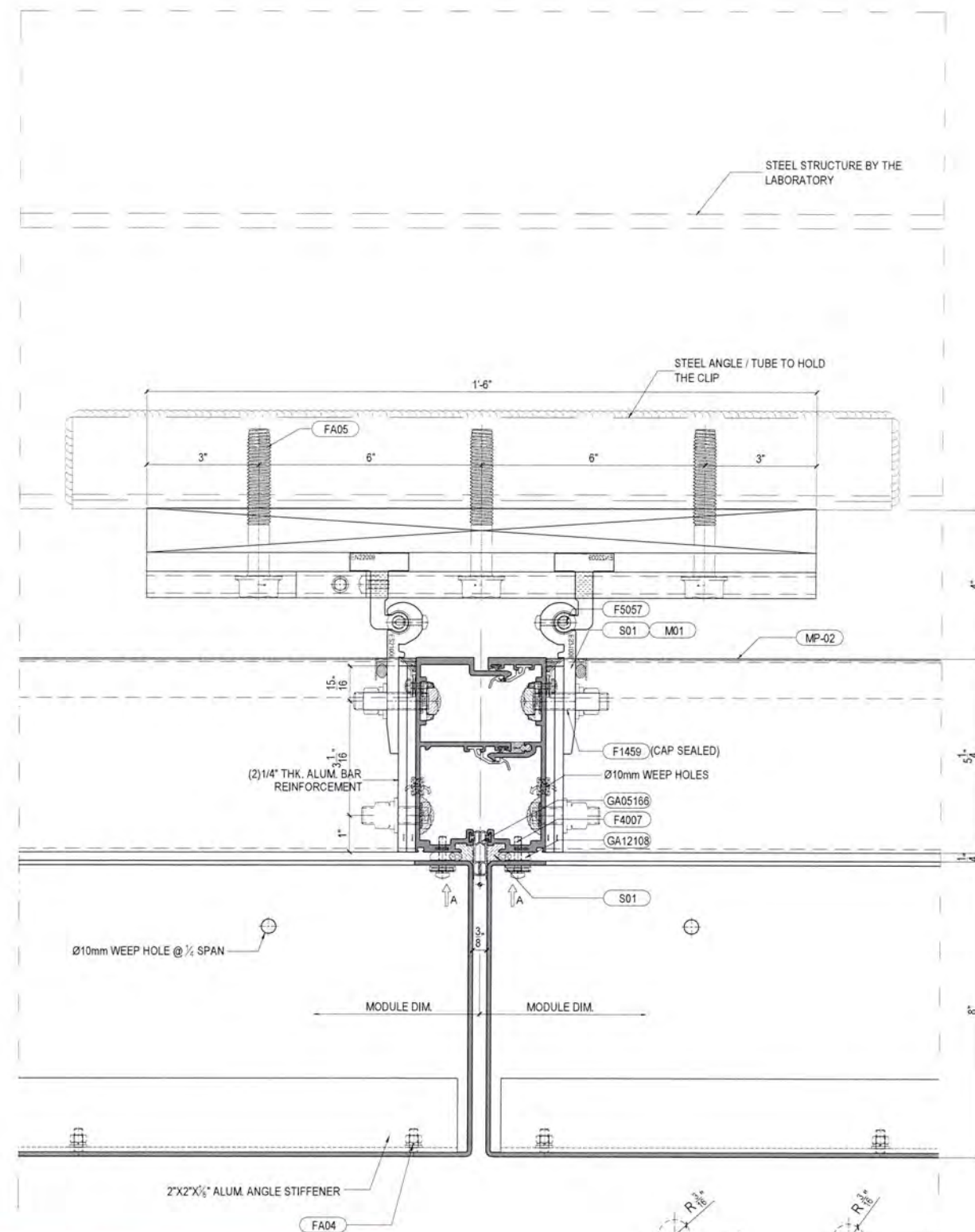
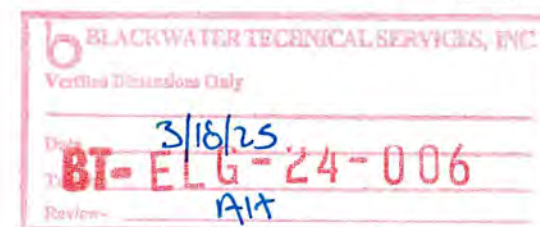
Date: Nov. 27, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

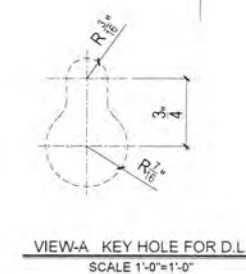
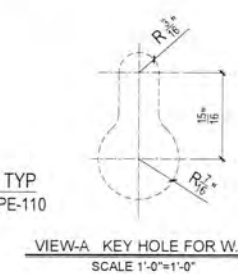
Phase: Shop Drawing



1 PLAN SECTION @ TYP
Scale: 6"=1'-0" FROM: PE-110



2 PLAN SECTION @ TYP
Scale: 6"=1'-0" FROM: PE-110



Job No.:

Key Plan/Elevation:



No.	Date	Description
Revisions:		

Owner:

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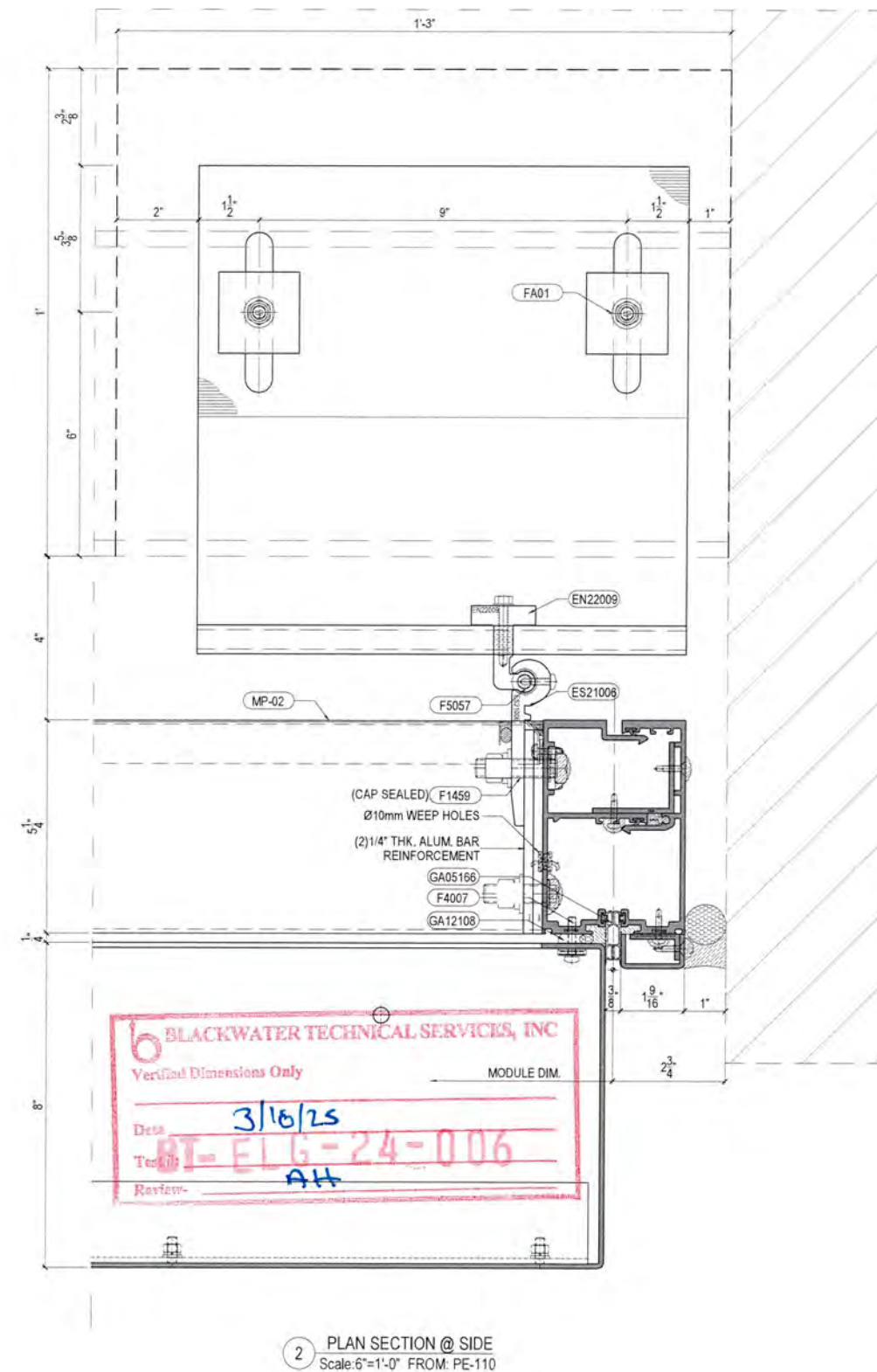
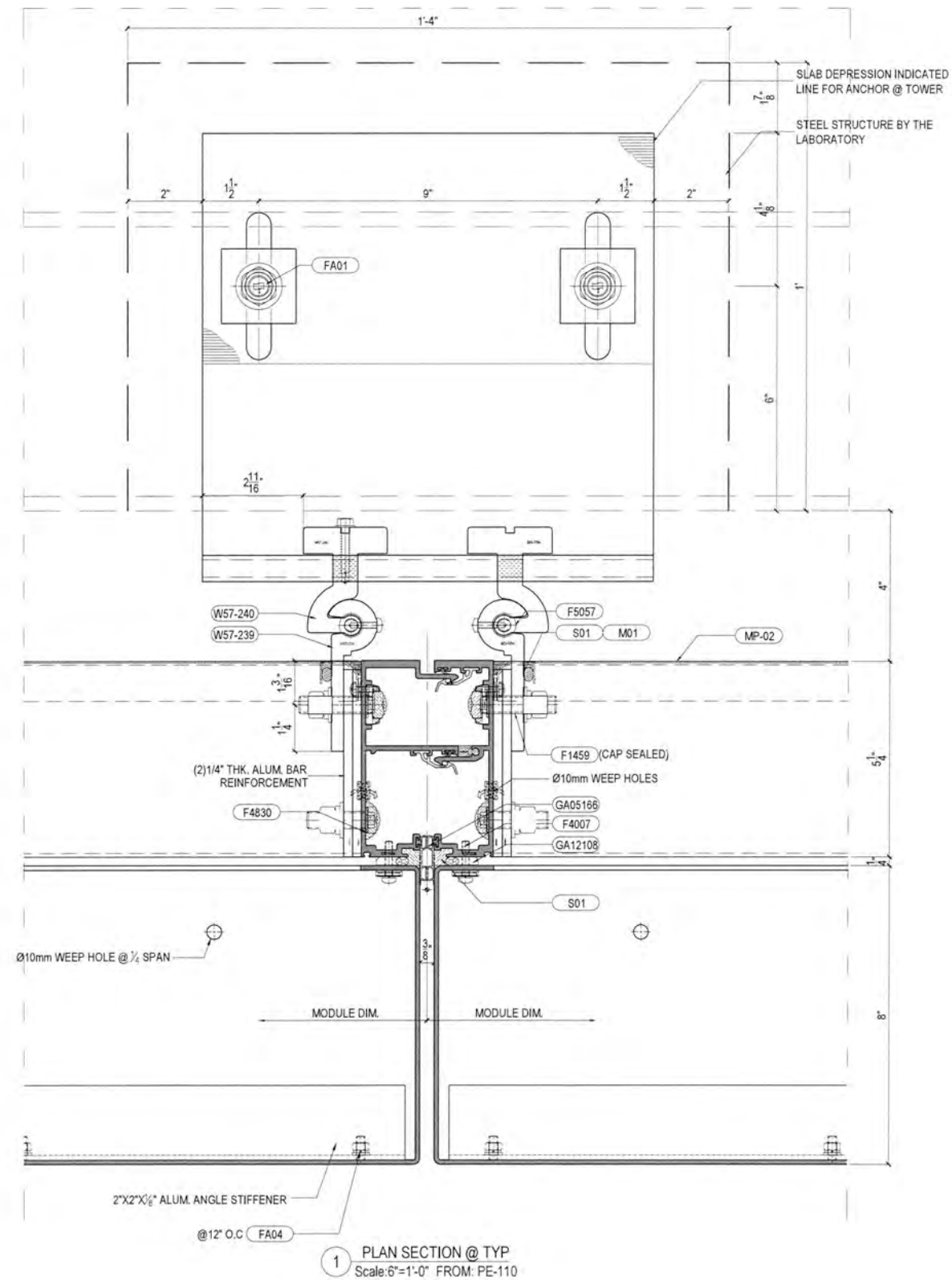
Title:
HORIZONTAL SECTION DETAIL

Sheet No.: DT-532

Date: Nov. 27, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

Phase: Shop Drawing



Job No.:

Key Plan/Elevation:



No.	Date	Description
Revisions:		

Owner:

Architect:

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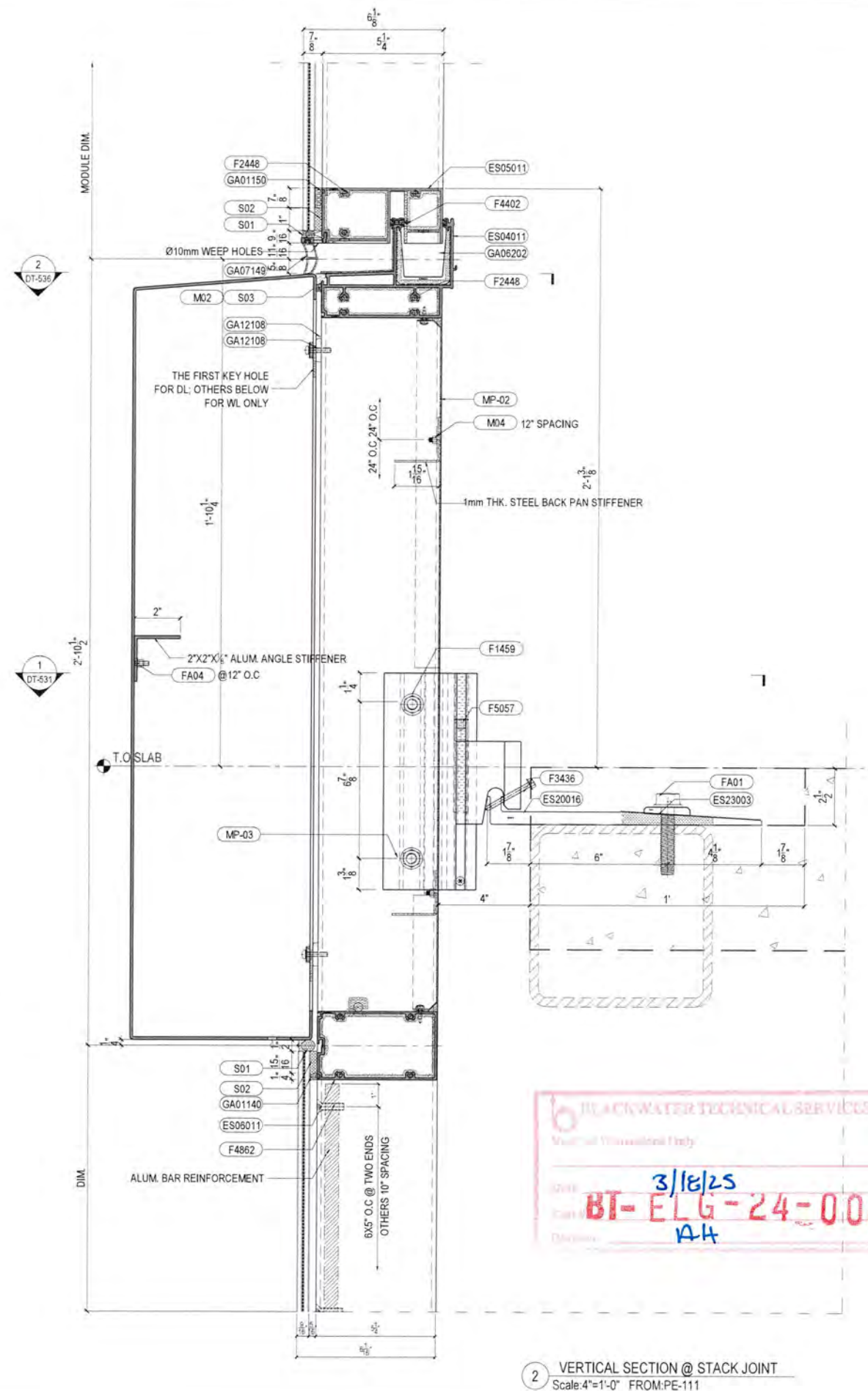
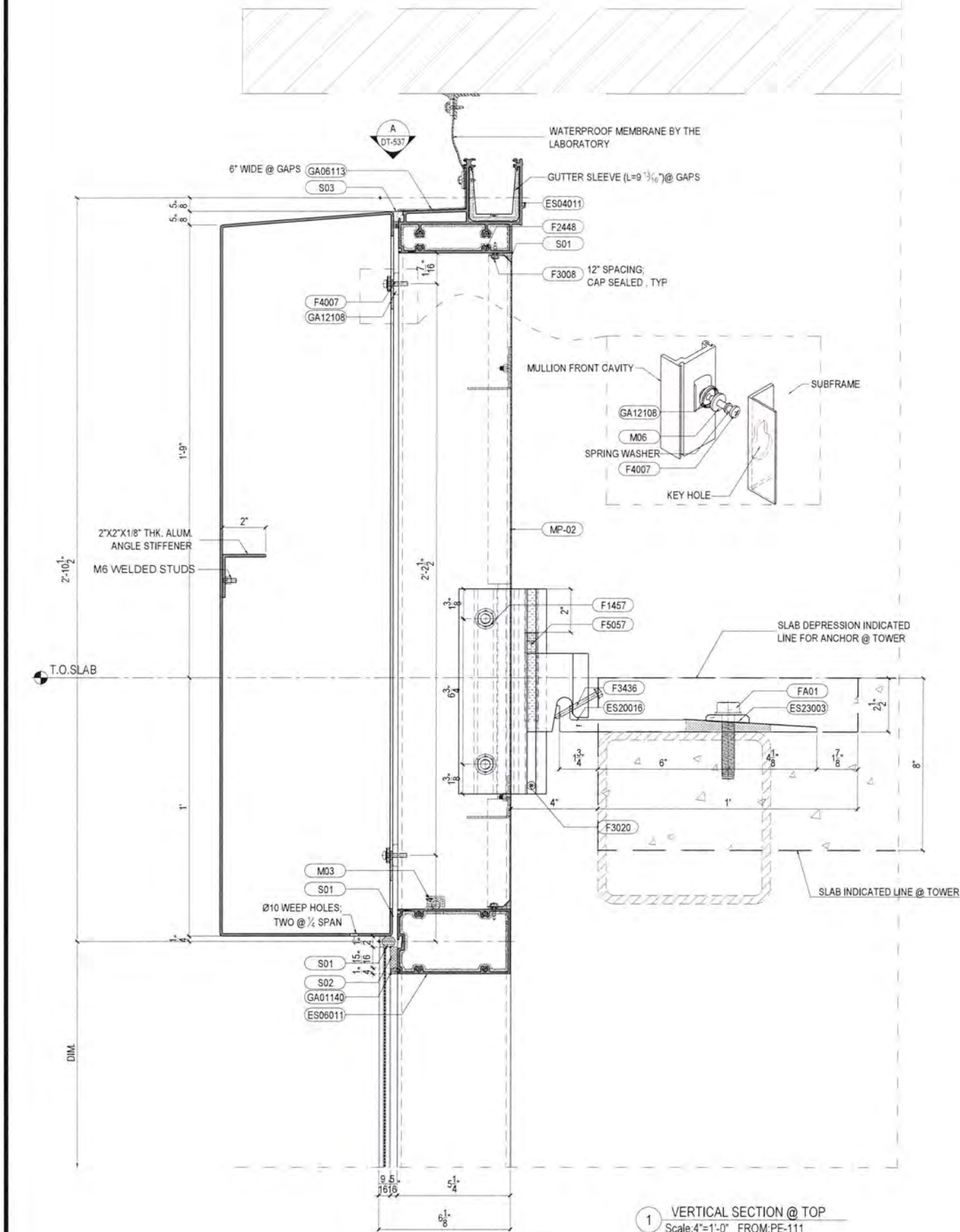
Title:
HORIZONTAL SECTION DETAIL

Sheet No.: DT-533

Date: Nov. 27, 2024 Revision No.: -

Scale: 6"=1'-0" Size: 22"x34"

Phase: Shop Drawing



Job No.:

Key Plan/Elevation:



No.	Date	Description
Revisions:		

Owner:

Architect:

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Approved By:

Checked By:

Design Team:

Project:

Title:
VERTICAL SECTION DETAIL
@ CW SYSTEM

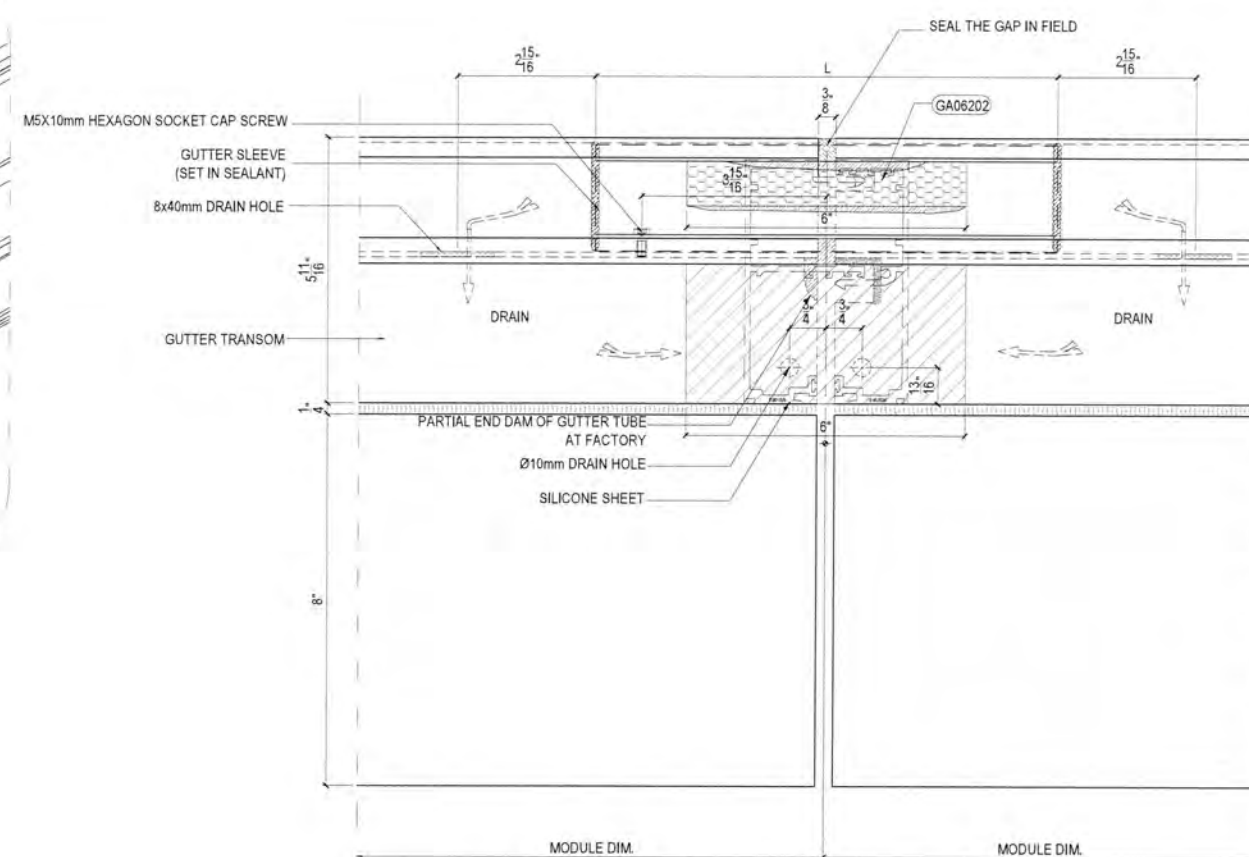
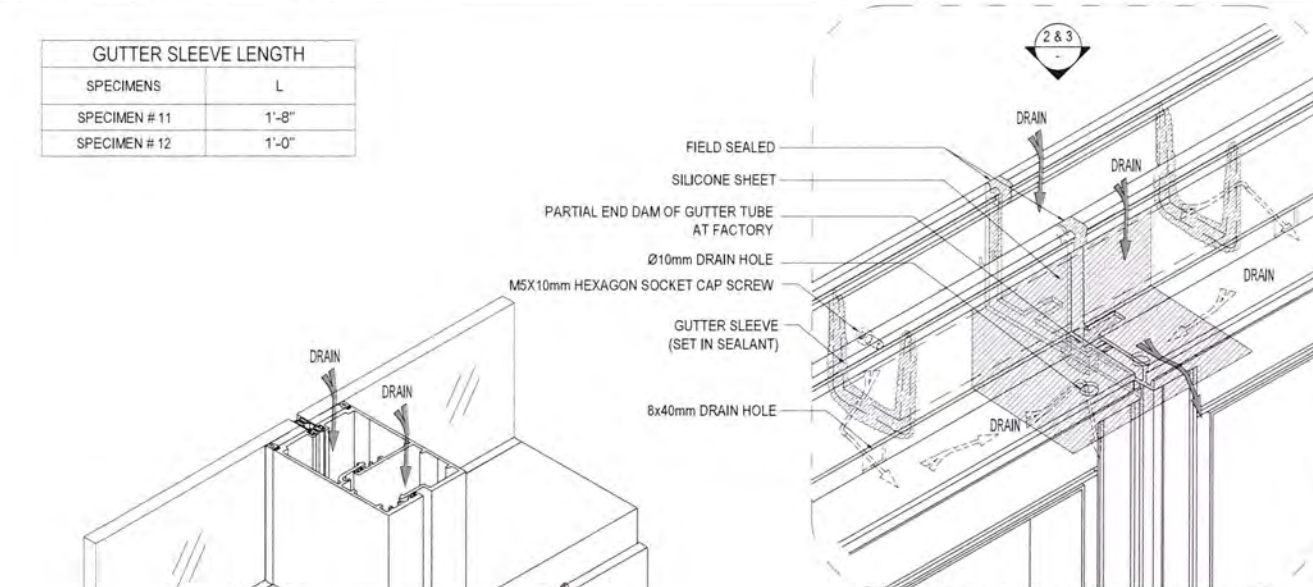
Sheet No.: DT-535

Date: Nov. 27, 2024 Revision No.: -

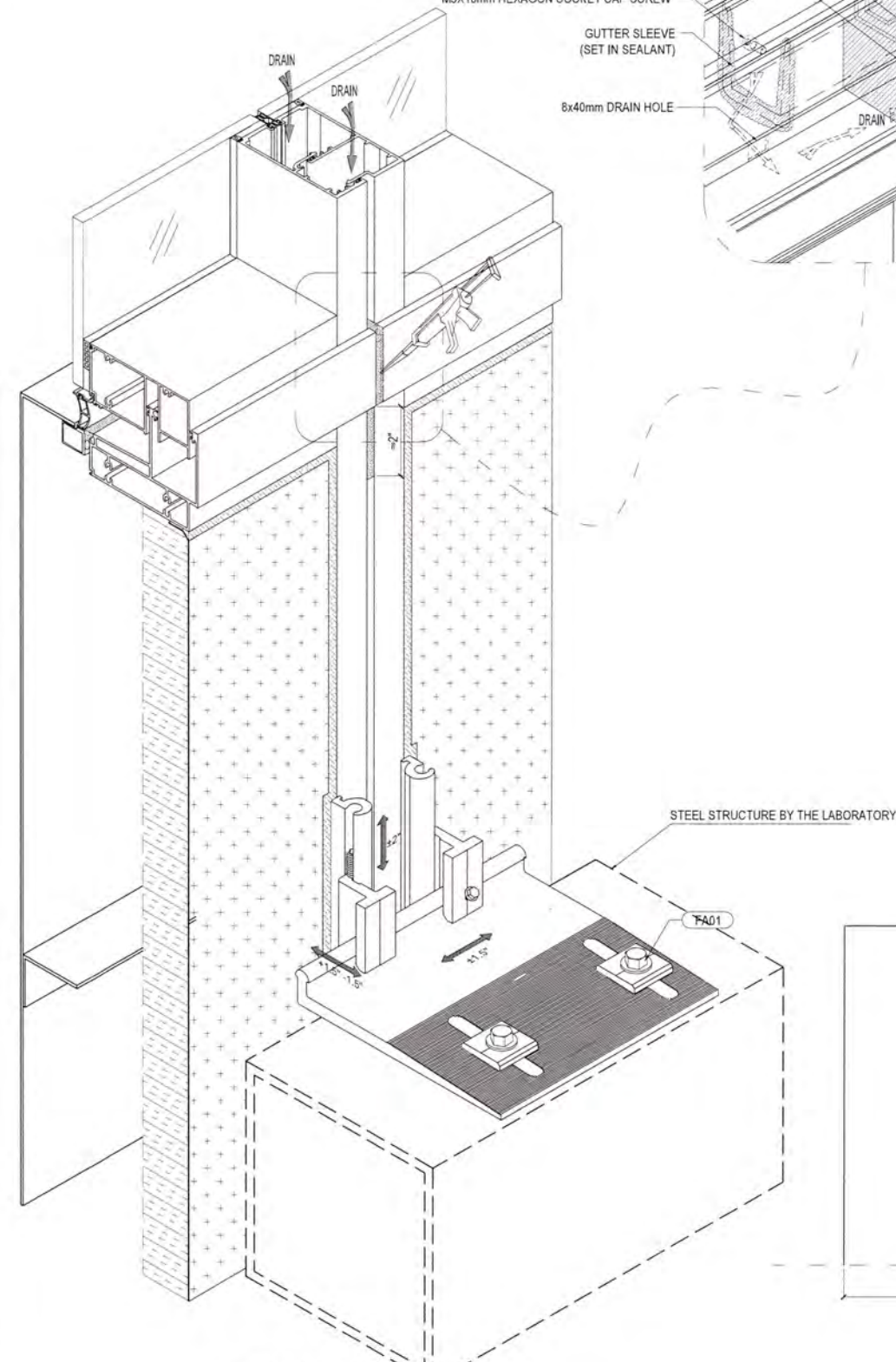
Scale: 4"=1'-0" Size: 22"x34"

Phase: Shop Drawing

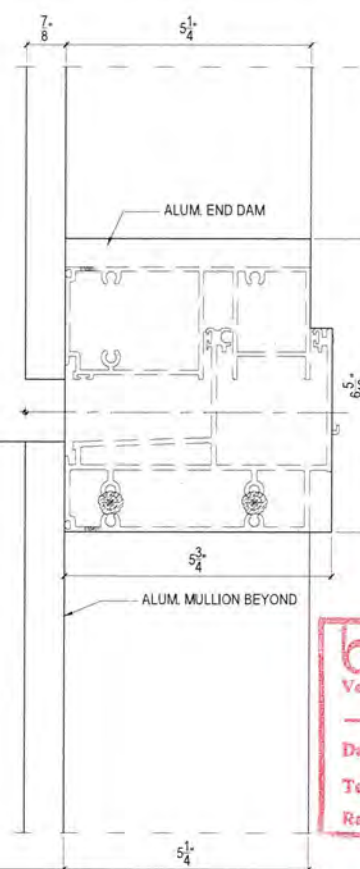
GUTTER SLEEVE LENGTH	
SPECIMENS	L
SPECIMEN # 11	1'-8"
SPECIMEN # 12	1'-0"



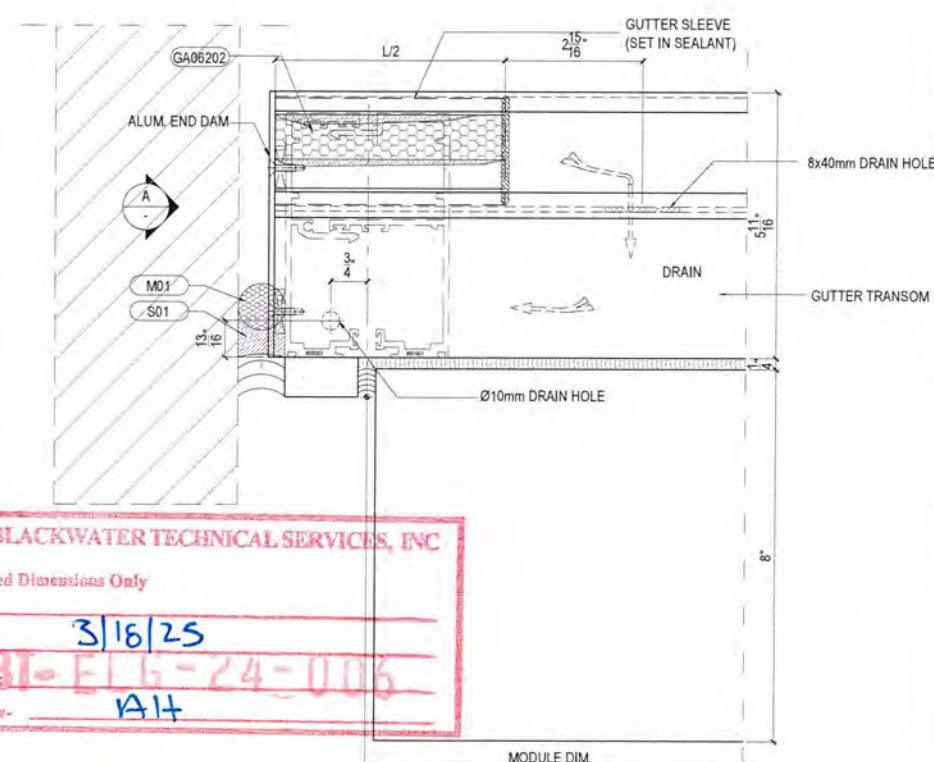
2 PLAN DETAIL OF THE GUTTER TRANSOM @ TYP.
SCALE 6"=1'-0" FROM: PE-110 / PE-111



1 ISOMETRIC VIEW OF STACK JOINT
SCALE 6"=1'-0" FROM: DT-531



(A) ELEVATION OF END OF GUTTER TRANSOM
SCALE 6"=1'-0" FROM:



3 PLAN DETAIL OF THE GUTTER TRANSOM @ SIDE
SCALE 6"=1'-0" FROM: PE-110 / PE-111

Job No.:

Key Plan/Elevation:

No.	Date	Description

Revisions:

Owner:

Architect:

Facade Consultant:

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Approved By:

Checked By:

Design Team:

Project:

Title: STACK JOINT DETAIL
@ CW SYSTEM

Sheet No.: DT-536

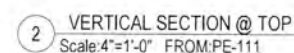
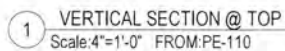
Date: Nov. 27, 2024

Revision No.: -

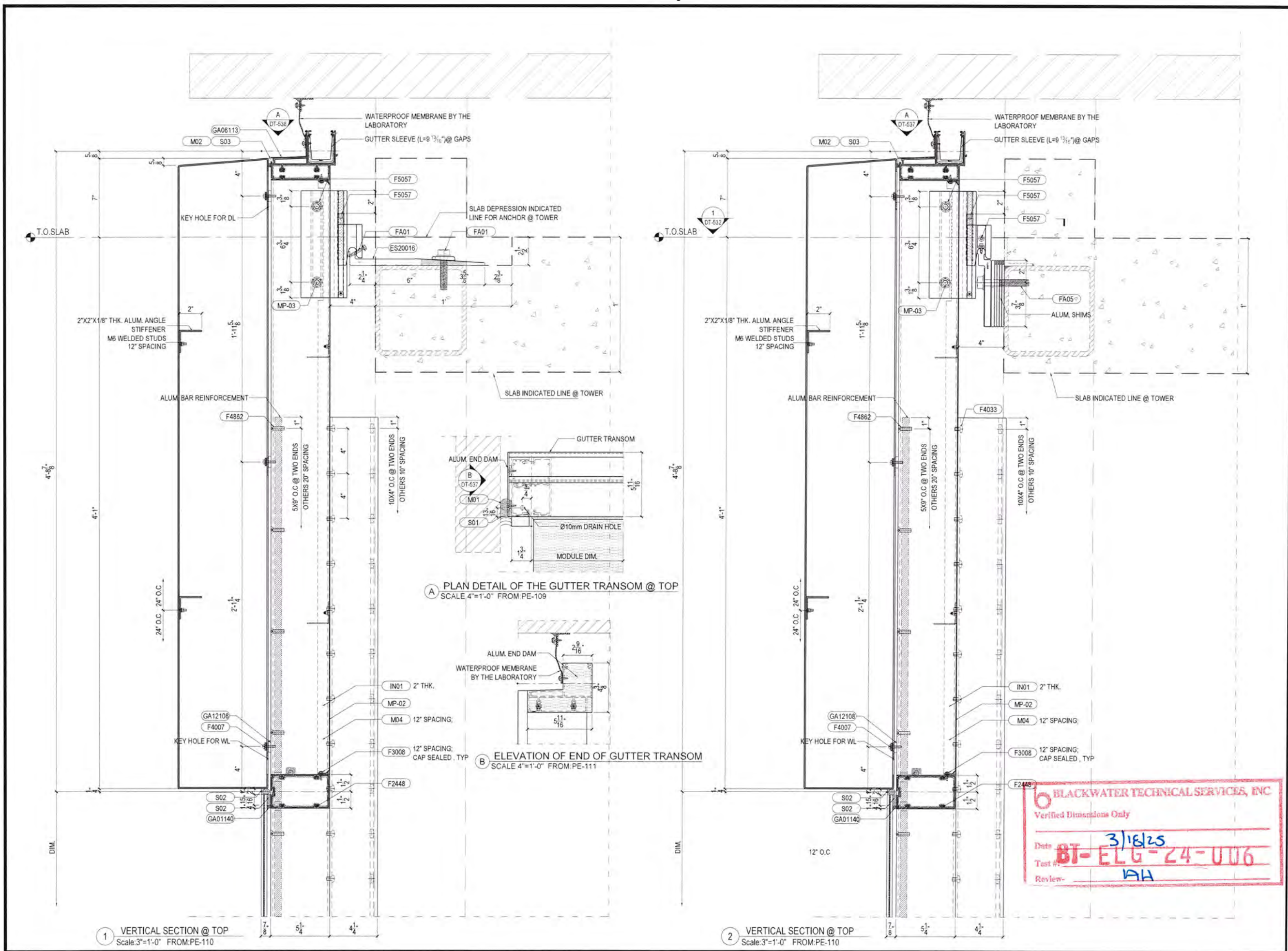
Scale: 6"=1'-0"

Size: 22"x34"

Phase: Shop Drawing



Phase: Shop Drawing



Job No.:

Key Plan/Elevation:



No.	Date	Description
Revisions:		

Owner:

Architect:

Facade Consultant:

Issued By:



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Approved By:

Checked By:

Design Team:

Project:

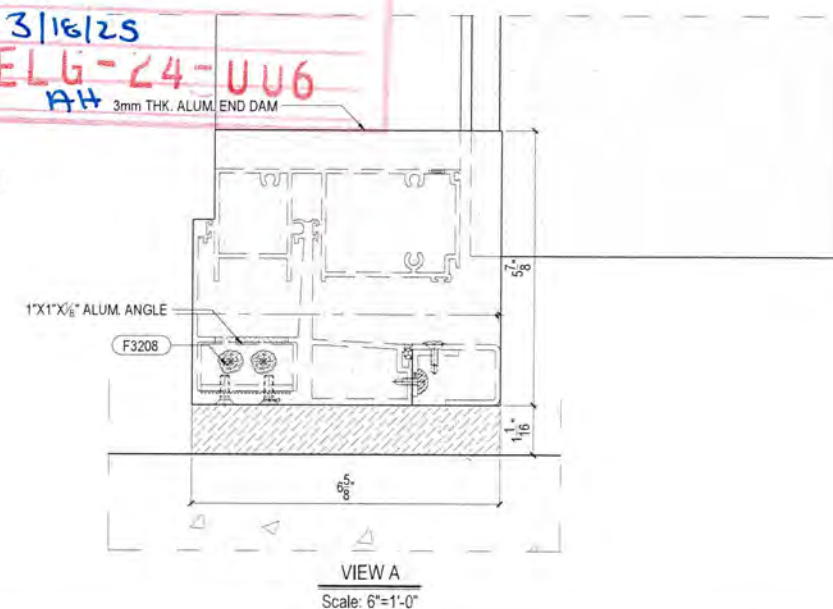
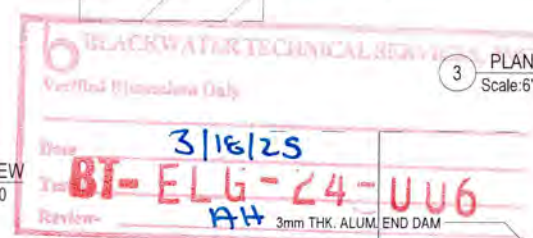
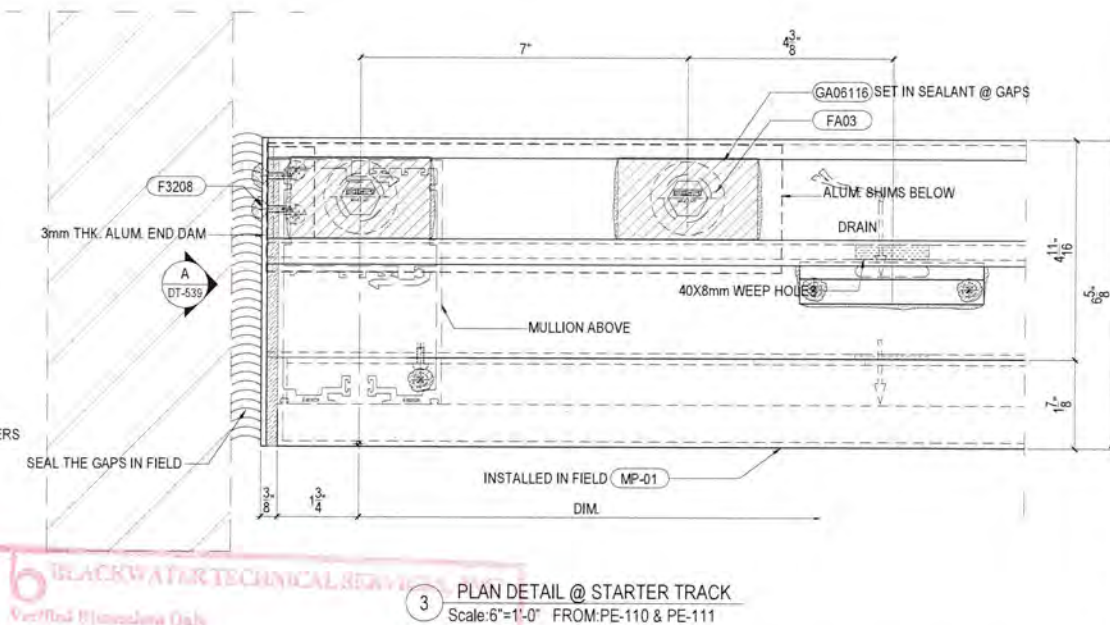
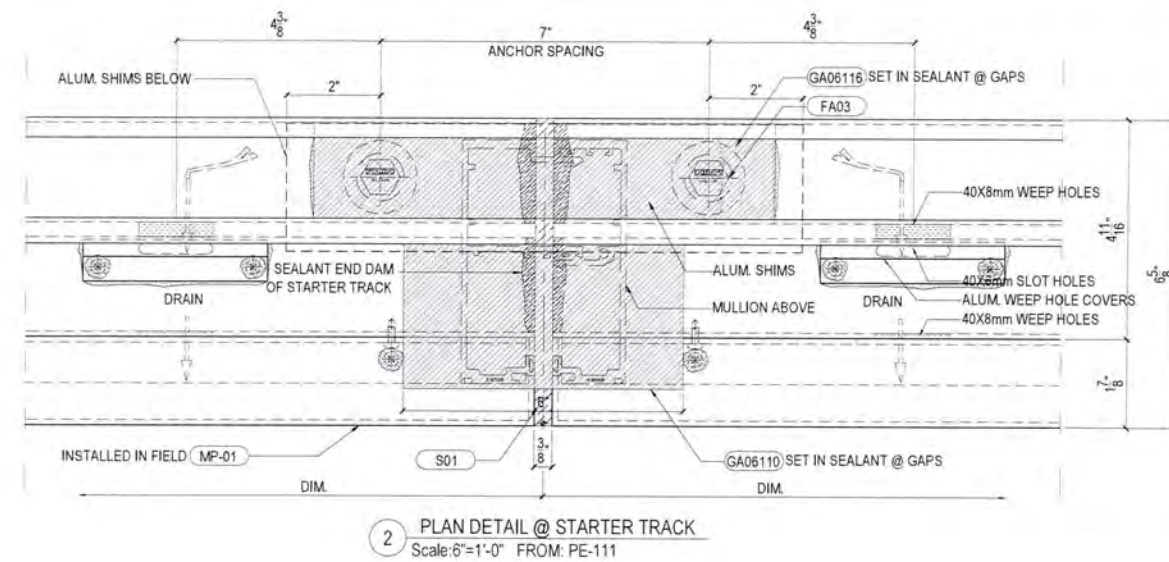
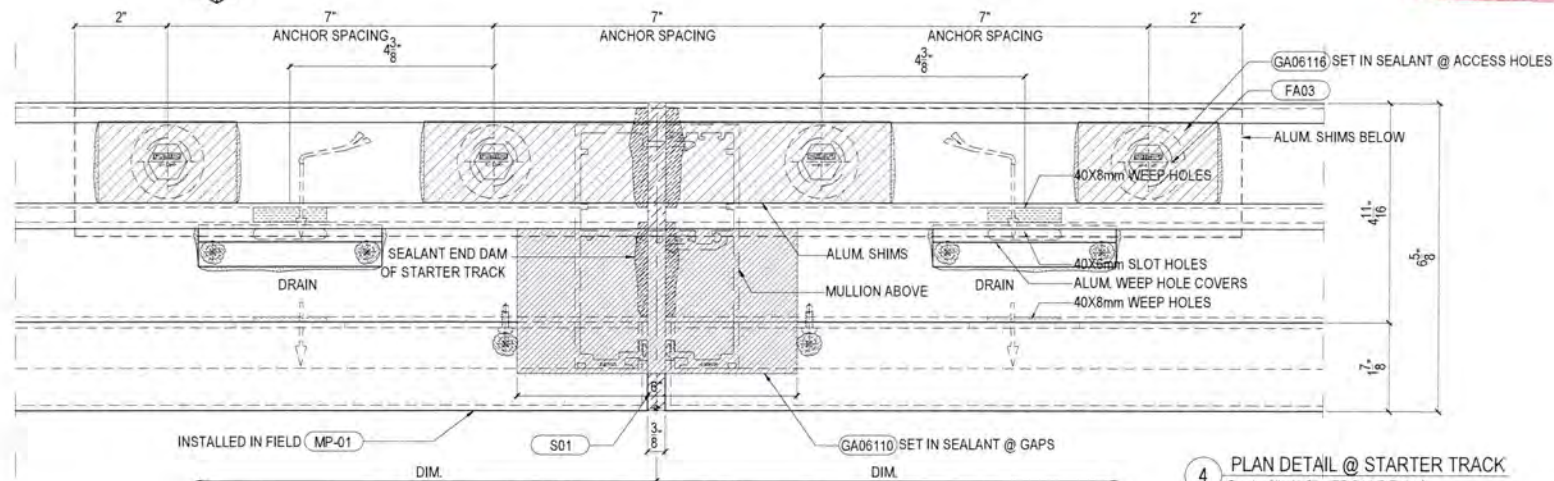
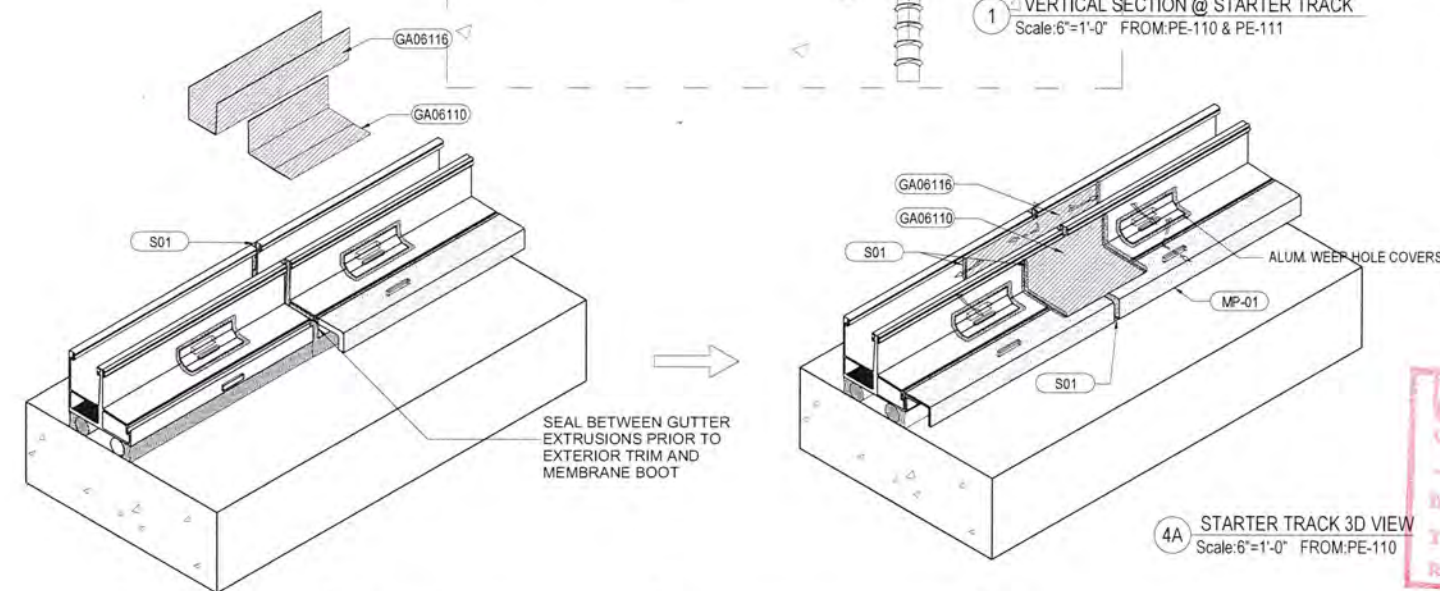
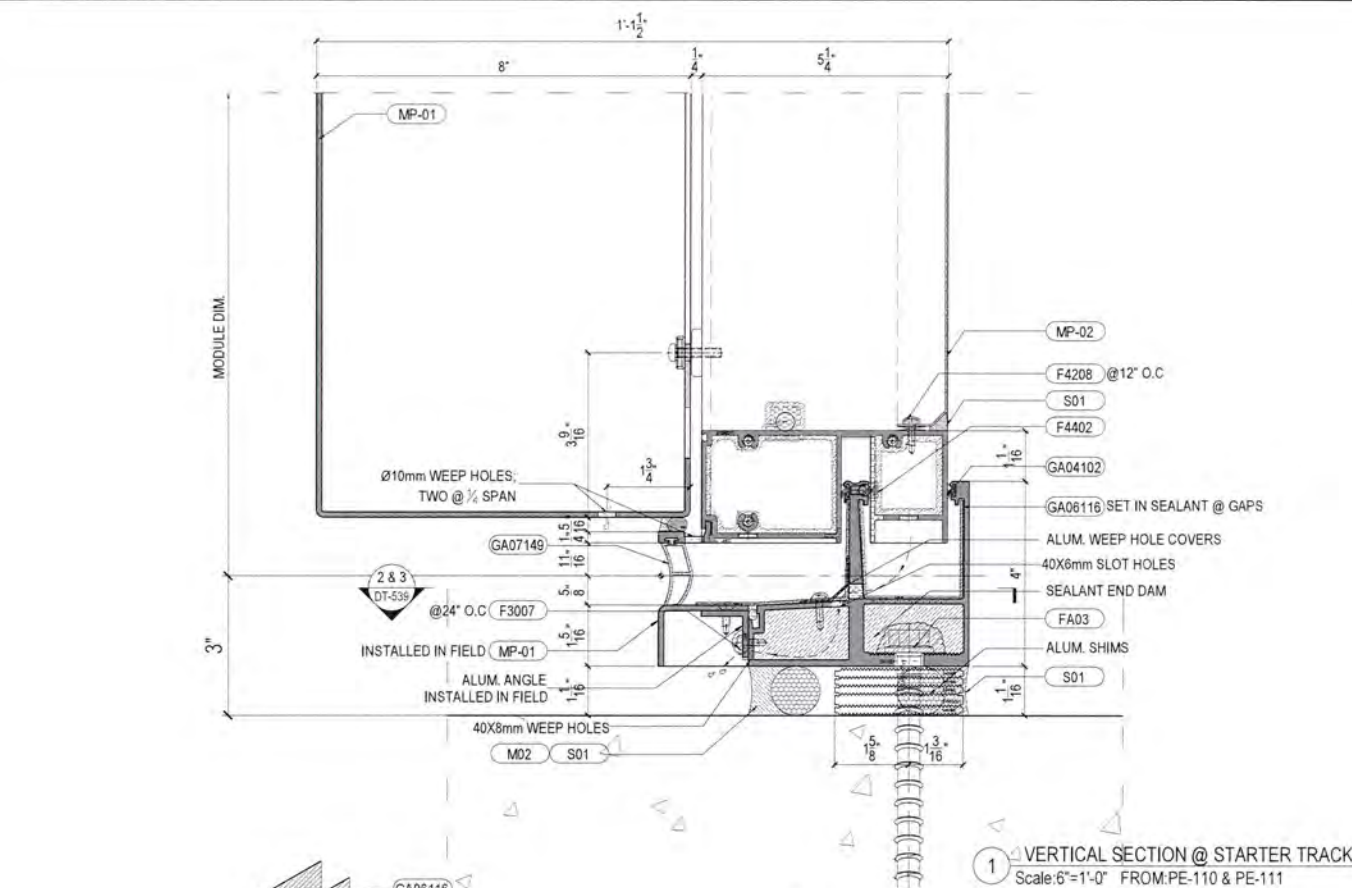
Title:
VERTICAL SECTION DETAIL
@ CW SYSTEM

Sheet No.: DT-538

Date: Nov. 27, 2024 Revision No.: -

Scale: 3"=1'-0" Size: 22"x34"

Phase: Shop Drawing



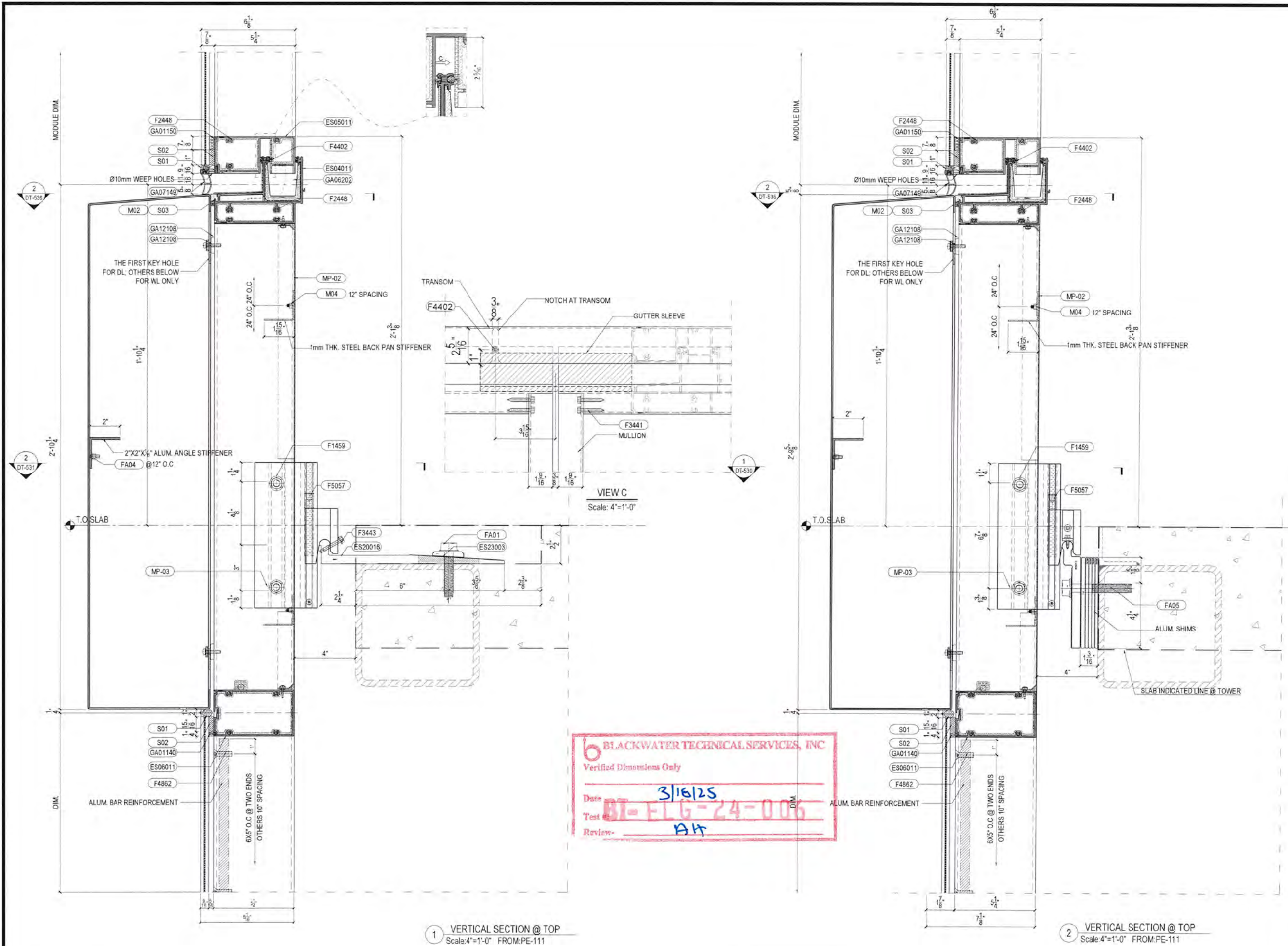
Job No.:
Key Plan/Elevation:

Revisions:

No.	Date	Description

Owner:
Architect:
Facade Consultant:
Issued By:
Approved By:
Checked By:
Design Team:
Project:
Title:
Sheet No.: DT-539
Date: Nov. 27, 2024
Revision No.: -
Scale: 6"=1'-0"
Size: 22"x34"
Phase: Shop Drawing

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Key Plan/Elevation:

-	-	-
No.	Date	Description
Revisions:		

Architect:

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Checked By:

Project:

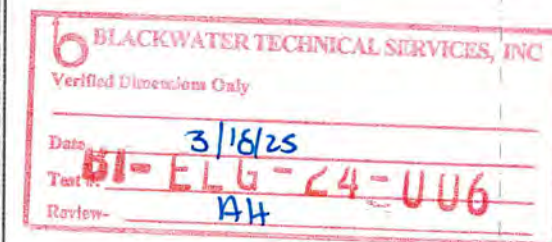
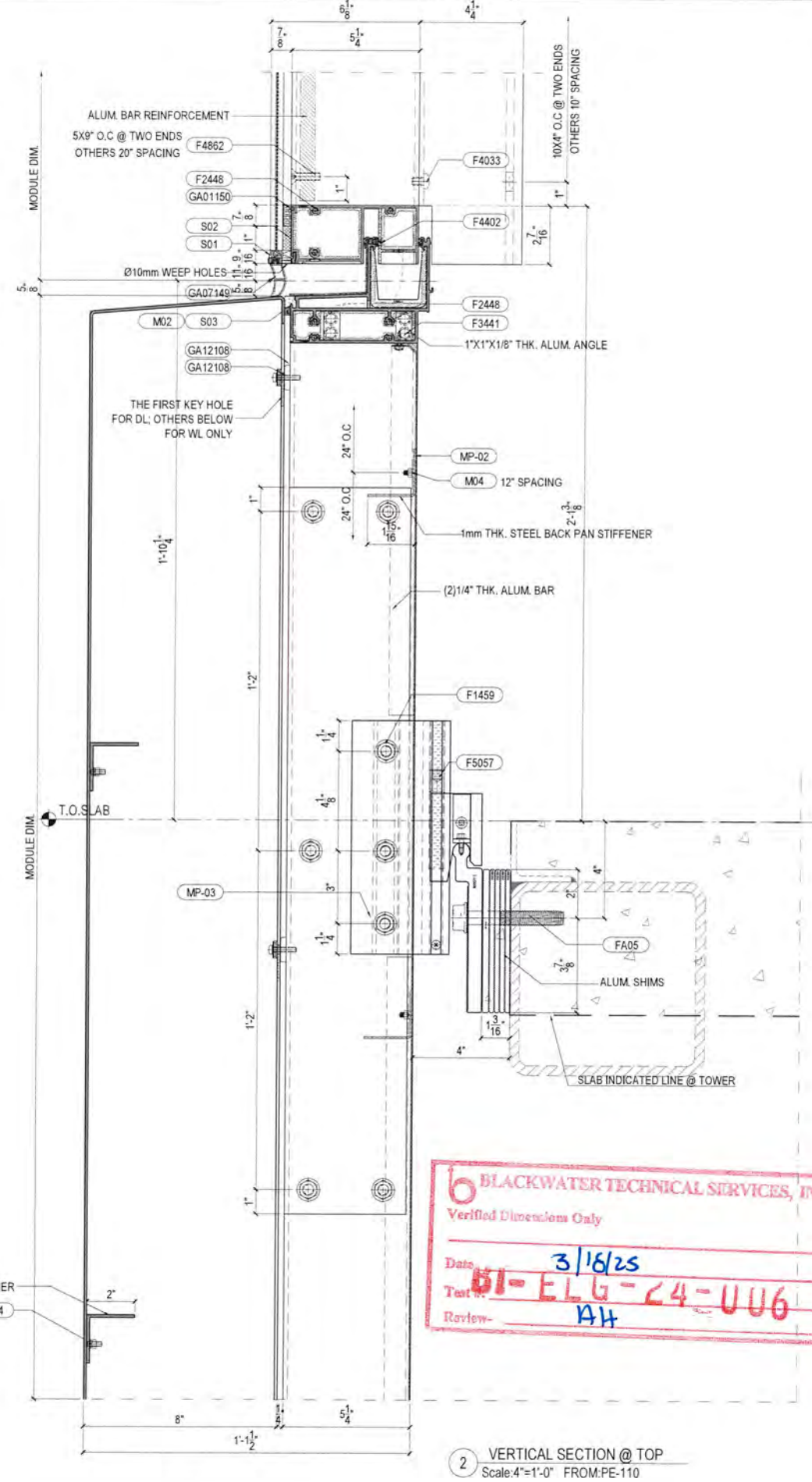
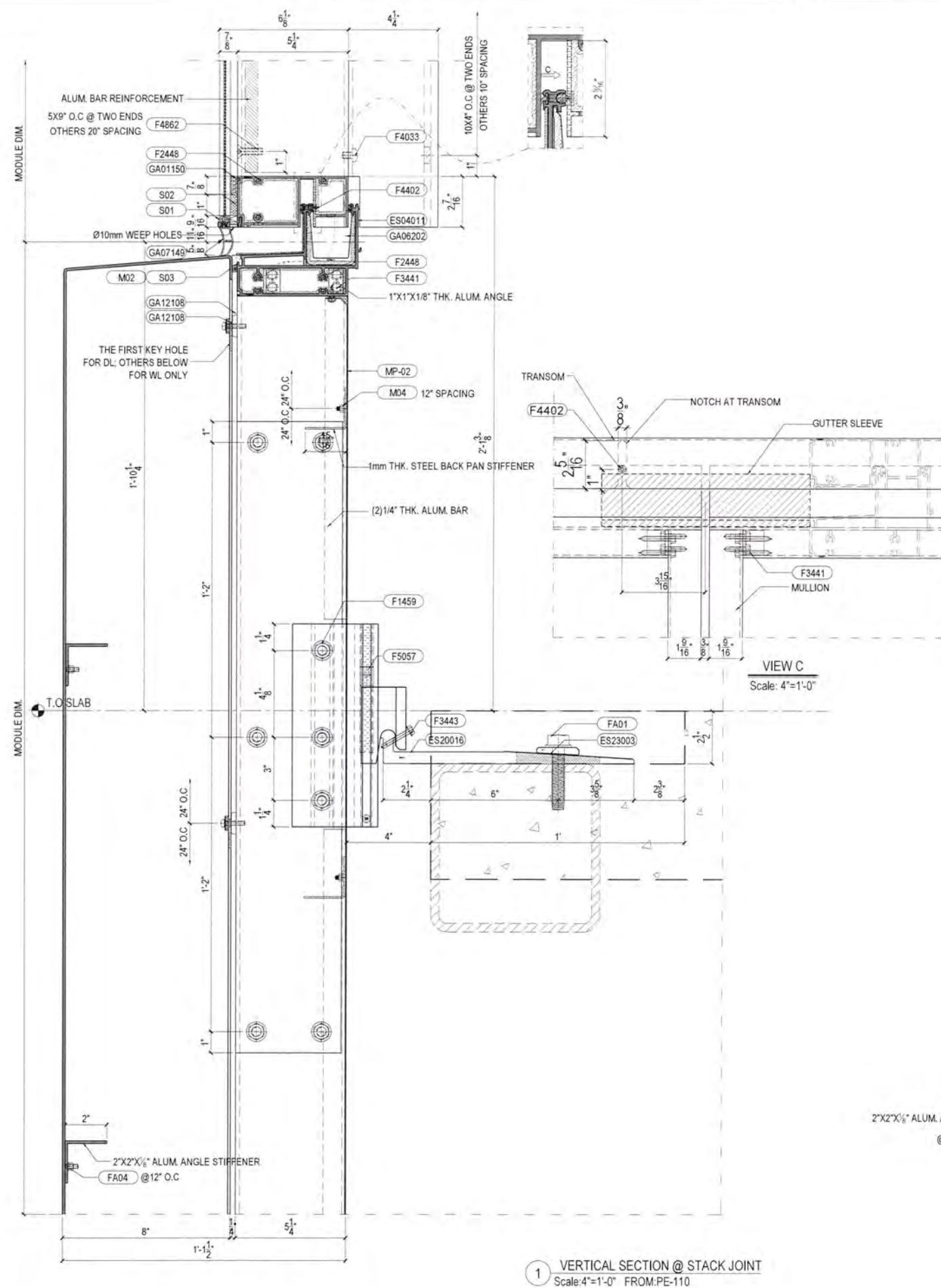
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@ CW SYSTEM

Sheet No.: DT-541

Date: Nov. 27, 2024	Revision No.: -
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Scale: 4"=1'-0"	Size: 22"x34"
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Phase: Shop Drawing



Job No.:
Key Plan/Elevation:

No.	Date	Description

Revisions:

Owner:

Architect:

Facade Consultant:

Issued By:


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Design Team:

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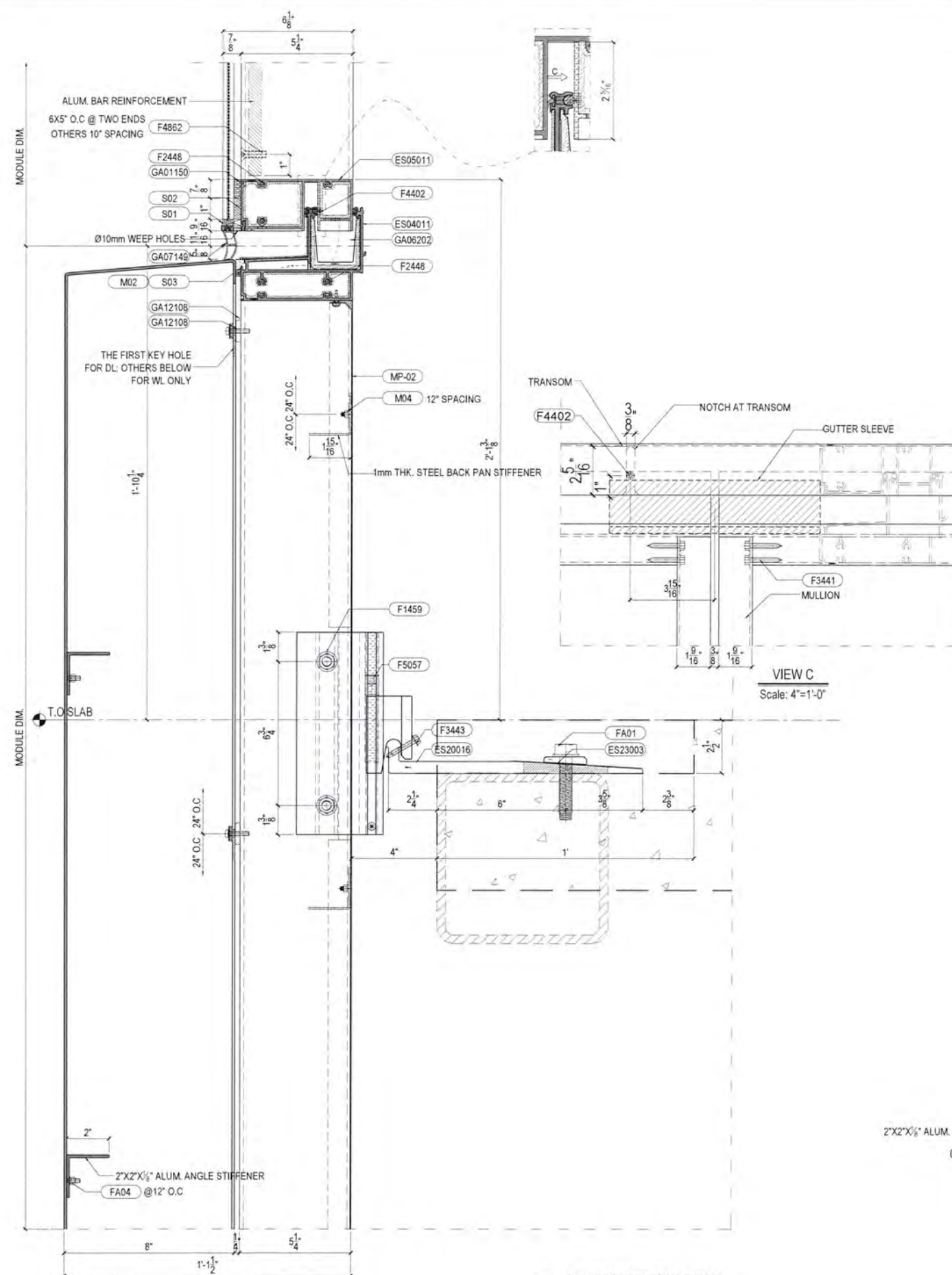
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VERTICAL SECTION DETAIL
@ CW SYSTEM

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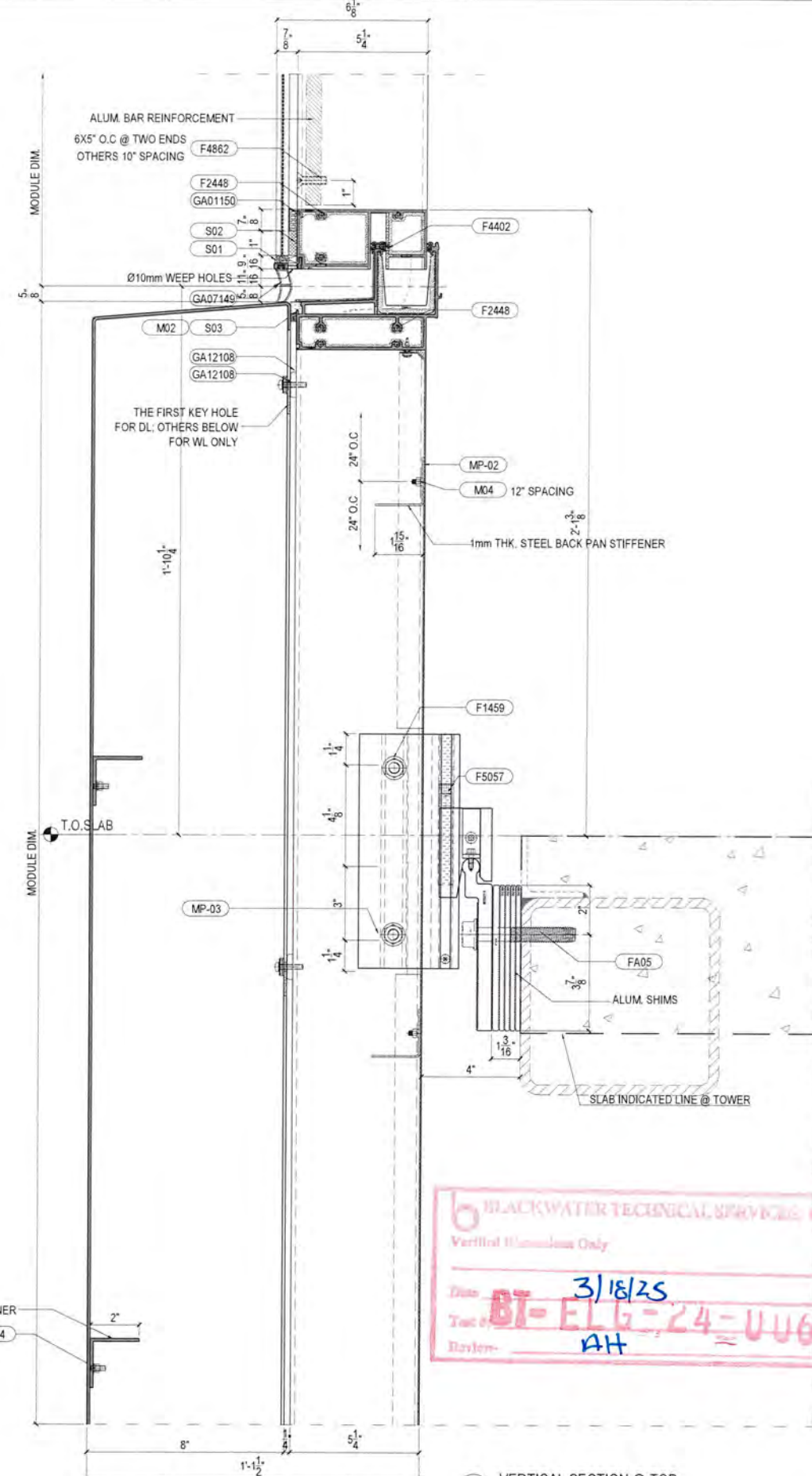
Date	Revision No.
Nov. 27, 2024	-

Scale: 4"=1'-0" Size: 22"x34"

Phase: Shop Drawing



1 VERTICAL SECTION @ TOP
Scale: 4"=1'-0" FROM: PE-111



2 VERTICAL SECTION @ TOP
Scale: 4"=1'-0" FROM: PE-111

Job No.:
Key Plan/Elevation:

No.	Date	Description
Revisions:		

Owner:

Architect:

Facade Consultant:

Issued By:

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Checked By:

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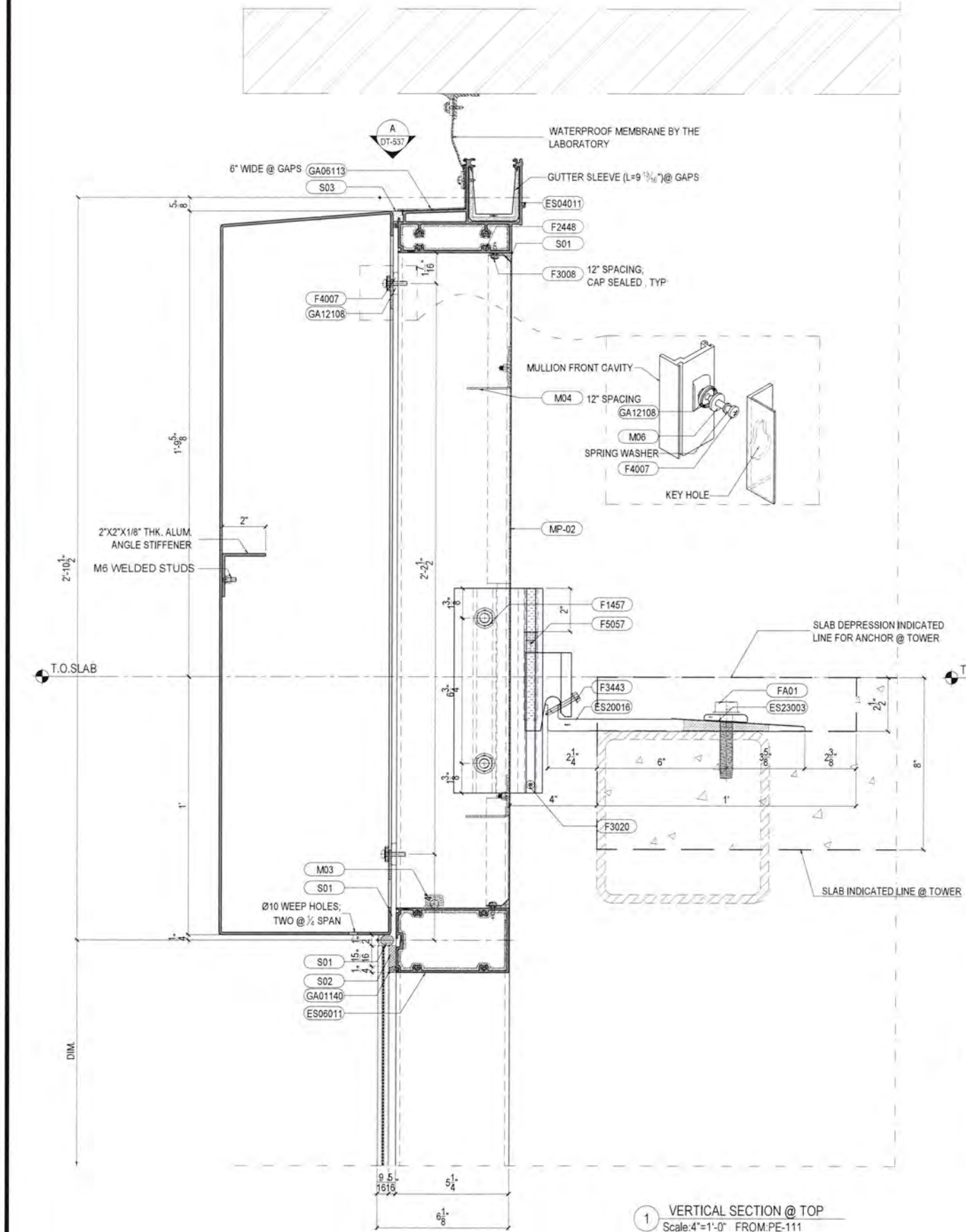
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Title: VERTICAL SECTION DETAIL @ CW SYSTEM

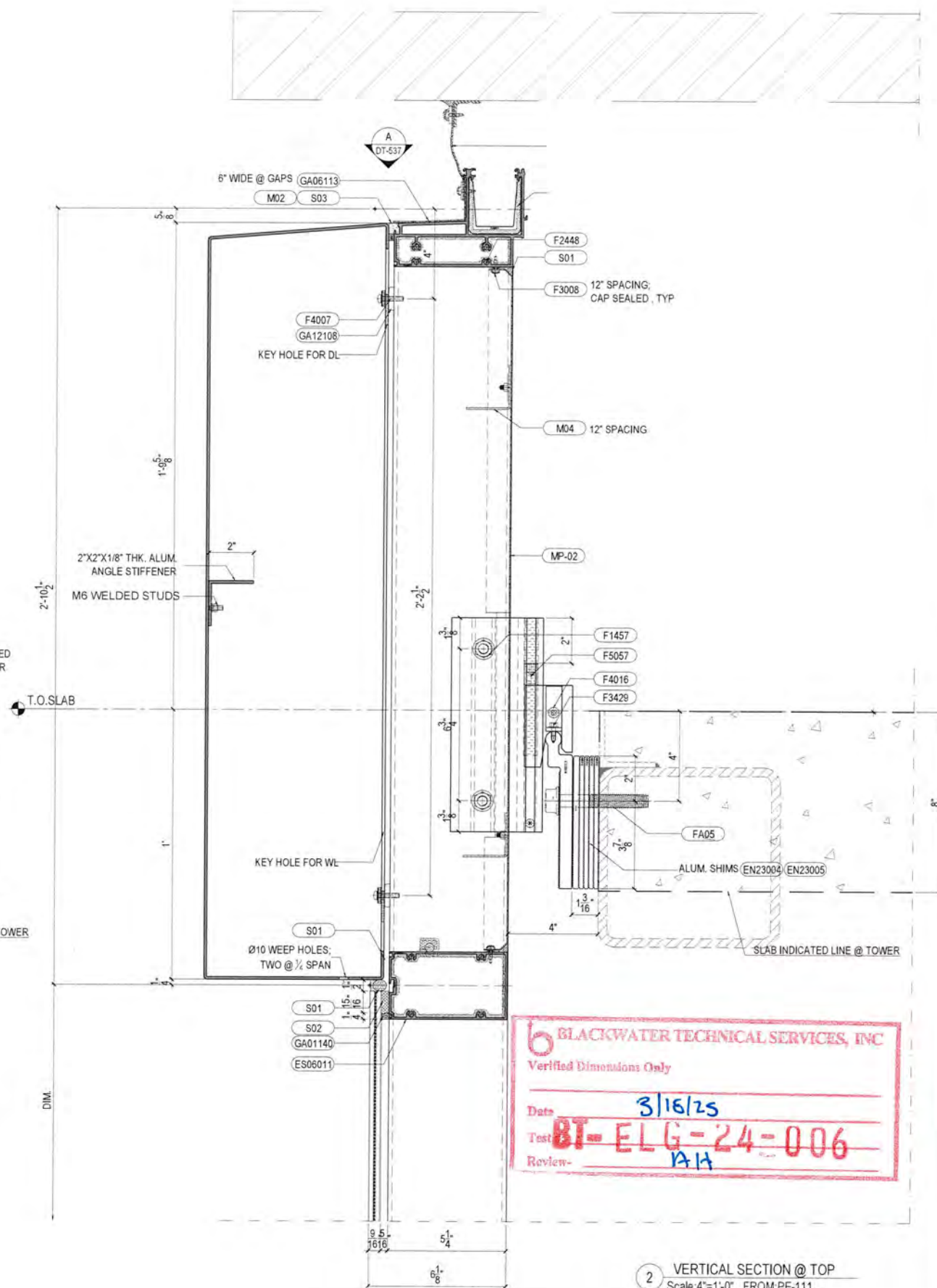
Sheet No.: DT-541B

Date: Nov. 27, 2024
Scale: 4"=1'-0"
Phase: Shop Drawing

Revision No.: -
Size: 22"x34"



1 VERTICAL SECTION @ TOP
Scale: 4\"/>



2 VERTICAL SECTION @ TOP
Scale: 4\"/>

Job No.:
Key Plan/Elevation:



No.	Date	Description

Revisions:

Owner:

Architect:

Facade Consultant:

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Checked By:

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Project:

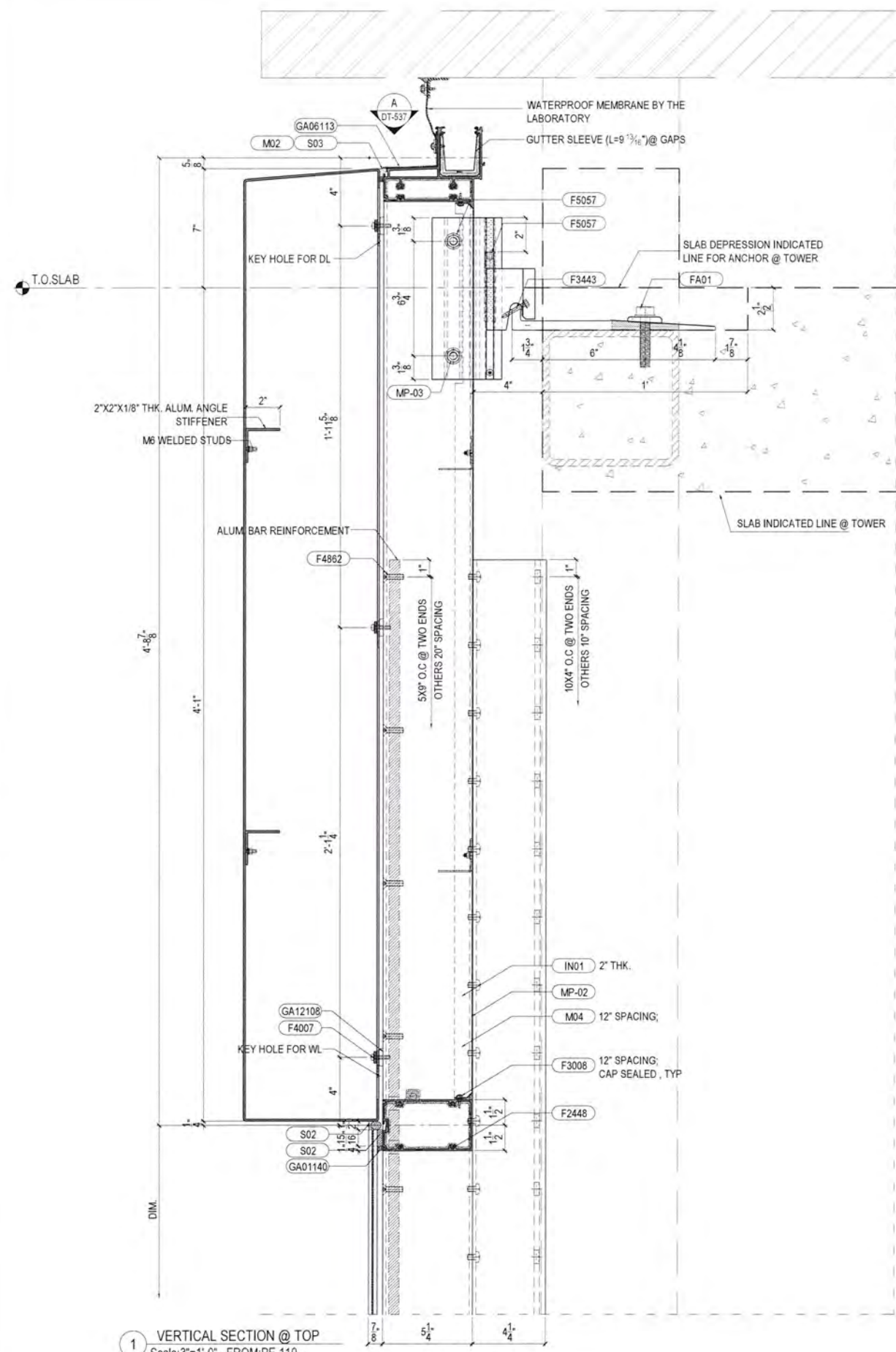
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Sheet No.: DT-542

Date: Nov. 27, 2024 Revision No.: -

Scale: 4\"/>

Phase: Shop Drawing



1 VERTICAL SECTION @ TOP
Scale: 3"=1'-0" FROM: PE-110

Revisions:

Phase: Shop Drawing