

PRODUCT APPROVAL EVALUATION REPORT

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

Product Name/ Model &Description

Series WW 201 Window Wall System
Specimen # 2- Large Missile impact. Mockup =1
Specimen # 16 - Large Missile impact. Mockup =2
Specimen # 17 - Small Missile impact. Mockup =3
Specimen # 18 - Small Missile impact. Mockup =4

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 WW - 201 SERIES SMALL MISSILE IMPACT RESISTANT(S.M.I) and Large Missile Impact Resistant (LMI- D) 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) Large Missile Impact - D
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 :

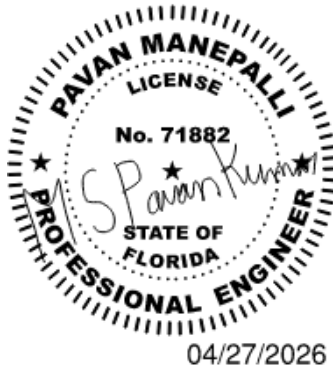
Mandatory Tests (Tested in accordance with Florida Building Code Tests Protocols)

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

Report Number: BT -ELG- 25- 003A Signed and Sealed by Michael D. Caldwell, PE FL# 49979

Test Report Date: 03/09/2026 TO 04/17/2026

Test Standard
and Description: ASTM E283-19 (air infiltration)
ASTM E331-00 (water infiltration)
ASTM F588-17 (Disassembly Test)



TAS 201-94/ASTM E1996-20 - (Mock Up 3&4 was subjected to small missile impacts (Level A) per TAS 201-94 and successfully completed. Mockup 1 and 2 were subjected to Large Missile Impact test and successfully completed.

TAS 202-94 - (Mock Up 1 2 3 and 4 were subjected to static wind loads in accordance with TAS 202-94. Mock Up 1 completed wind loads to verify a Design Load of +/-70psf. Mockup 2 at +/-115psf and Mockup 3 at +/-125psf Mock up 4 at +/-130 psf.

TAS 203-94/ ASTM E1886-19 - (Mock Up 1 2 3 and 4 were subjected to cyclic wind loads in accordance with TAS 203-94. Mock Up 1 successfully completed the cyclic wind loads to verify a Design Load of +/-70.00 psf. Mockup 2 at +/-115psf and Mockup 3 at +/-125 psf and Mock up 4 at +/-130 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 # 48175 the testing performed for the TAS 201, TAS 202 and TAS 203 meet or exceed the requirement of AAMA 501.



BLACKWATER TECHNICAL SERVICES INC.

7341 Westport Pl Suite 1A, West Palm Beach Fl. 33413

Phone: 561-508-2830

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



CLIENT:

ELICC Group

2181 Meyers Ave., Suite: C

Escondido, CA 92029

Phone: (760) 233-0066 Fax: (760) 233-0065

PRODUCT DESCRIPTION OF UNIT:

"WW-201 SERIES (LMI-D and SMI) – Shore Club"

Specimens 2, 16, 17, 18

TEST DATES:

Start: 3/9/2026

End: 4/17/2026

WITNESS TO TESTING:

Mike Caldwell, PE BT President

Warner Ward, Lead Laboratory Technician

SUMMARY OF TESTING

AIR INFILTRATION: Specimens 2, 16, 17 and 18 passed testing criteria for air infiltration per ASTM E283-19.

WATER INFILTRATION: Specimens 2, 16, 17 and 18 passed testing criteria for water infiltration per ASTM E331-00(23).

DISASSEMBLY TEST: Specimens 2, 16, 17 and 18 passed testing criteria for disassembly test per ASTM F588-17(23).

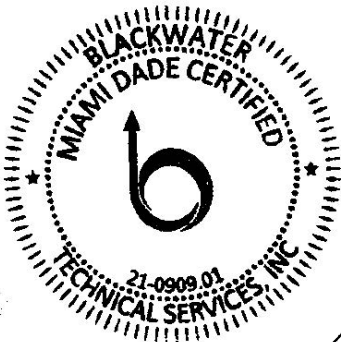
STATIC WIND LOADS (TAS 202-94): Specimens 2, 16, 17 and 18 were subjected to static wind loads in accordance with **TAS 202-94**. Specimen 2 completed wind loads to verify a **Design Load of +/-70.0 psf**. Specimen 16 completed wind loads to verify a **Design Load of +/-115.0 psf**. Specimen 17 completed wind loads to verify a **Design Load of +/-125.00psf**. Specimen 18 completed wind loads to verify a **Design Load of +/-130.00psf**.

MISSILE IMPACTS (TAS 201-94/ASTM E1996-23): Specimens 17 and 18 were subjected to small missile impacts (Level A) per TAS 201-94. Specimens 17 and 18 successfully completed the small missile impact tests. Specimens 2 and 16 were subjected to large missile impacts (Level D) per TAS201-94. Specimens 2 and 16 successfully completed the large missile impact tests.

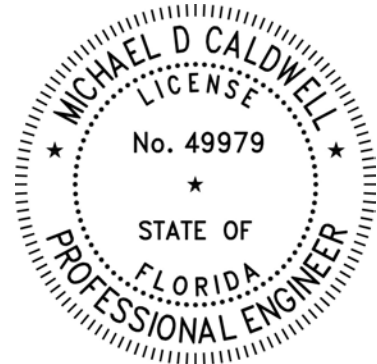
CYCLIC LOADS (TAS 203-94/ ASTM E1886-19): Specimens 2, 16, 17 and 18 were subjected to cyclic wind loads in accordance with **TAS 203-94**. Specimen 2 completed cyclic wind loads to verify a **Design Load of +/-70.0 psf**. Specimen 16 completed cyclic wind loads to verify a **Design Load of +/-115.0 psf**. Specimen 17 completed cyclic wind loads to verify a **Design Load of +/-125.00psf**. Specimen 18 completed cyclic wind loads to verify a **Design Load of +/-130.00psf**.

CONCLUSION: Following testing Specimens 2, 16, 17, and 18 were disassembled. No failures were observed in the fastenings, panes, or anchorages. The **"WW-201 SERIES (LMI-D & SMI) – Shore Club"** products were tested in accordance with and meet the requirements to comply with Florida Building Code 2023.

Revision 1: Revision 1 incorporates test results and specimen details for Specimen 17.



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.

Statement of Conformance:

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



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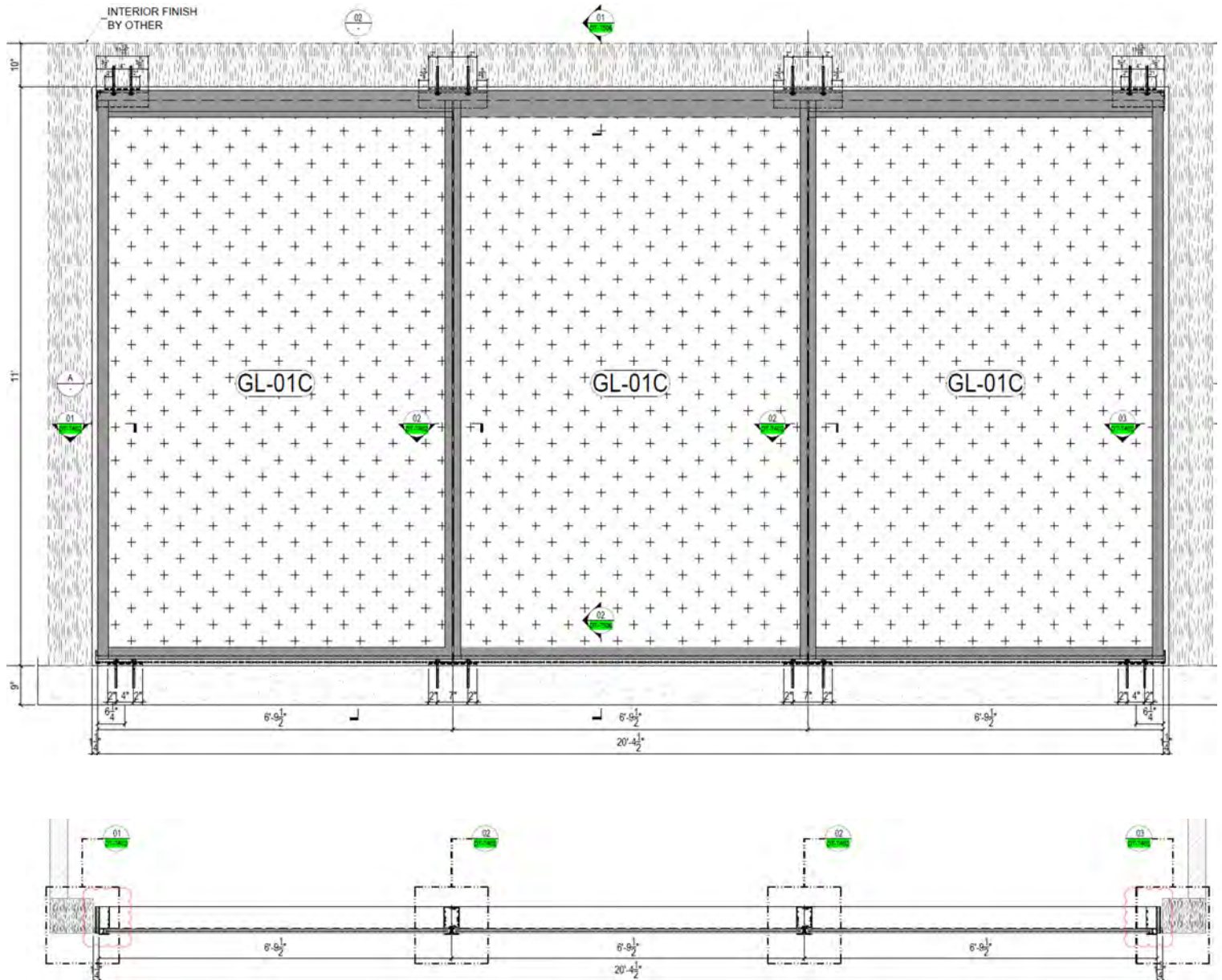
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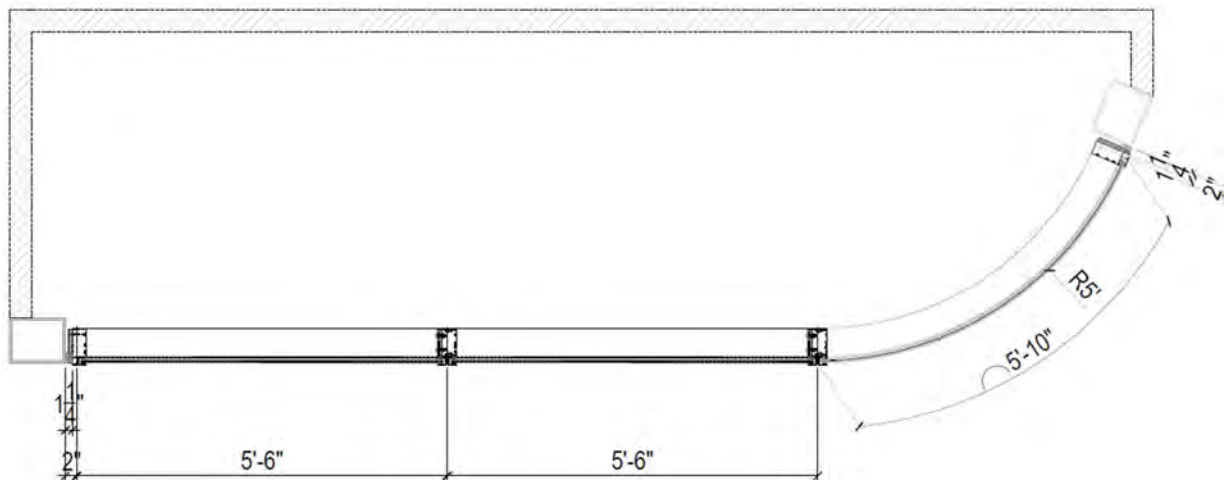
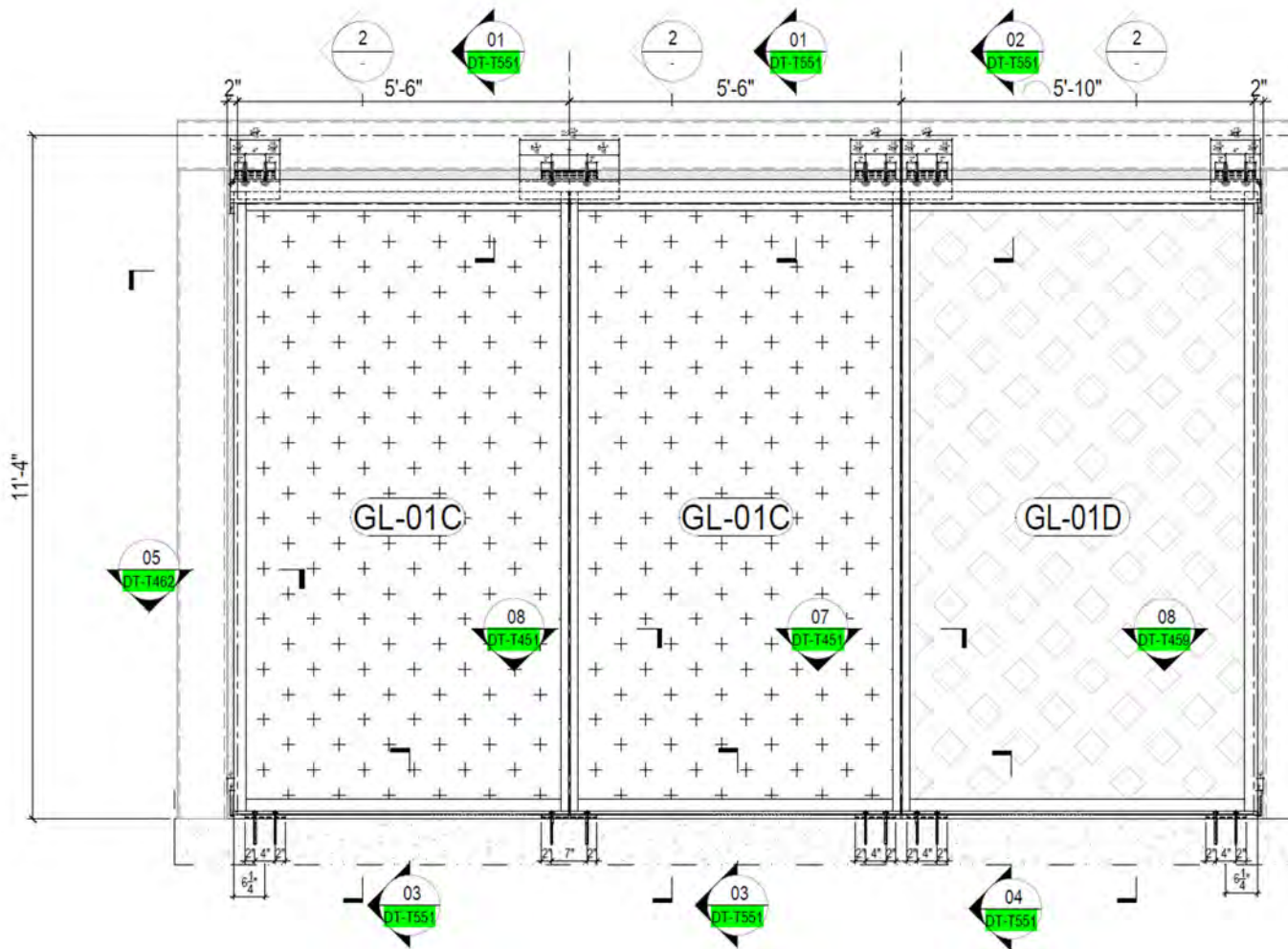


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Specimen 16

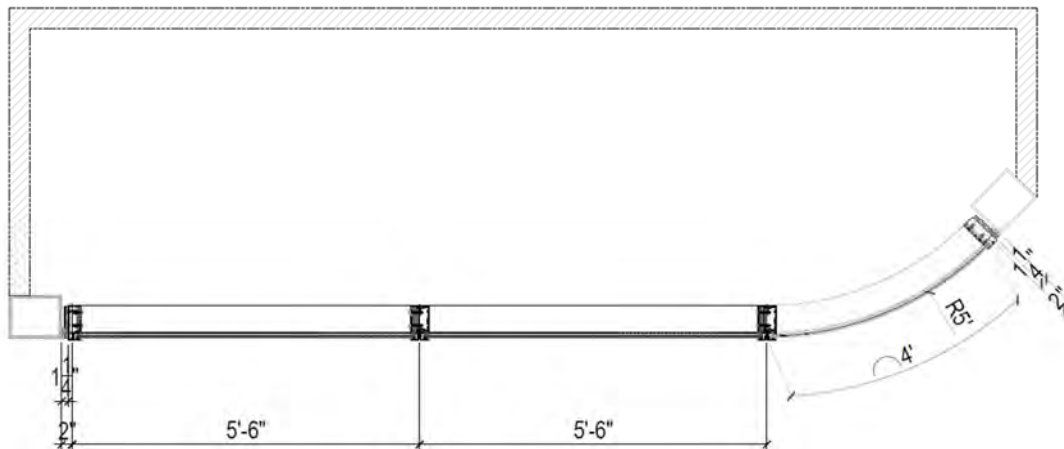
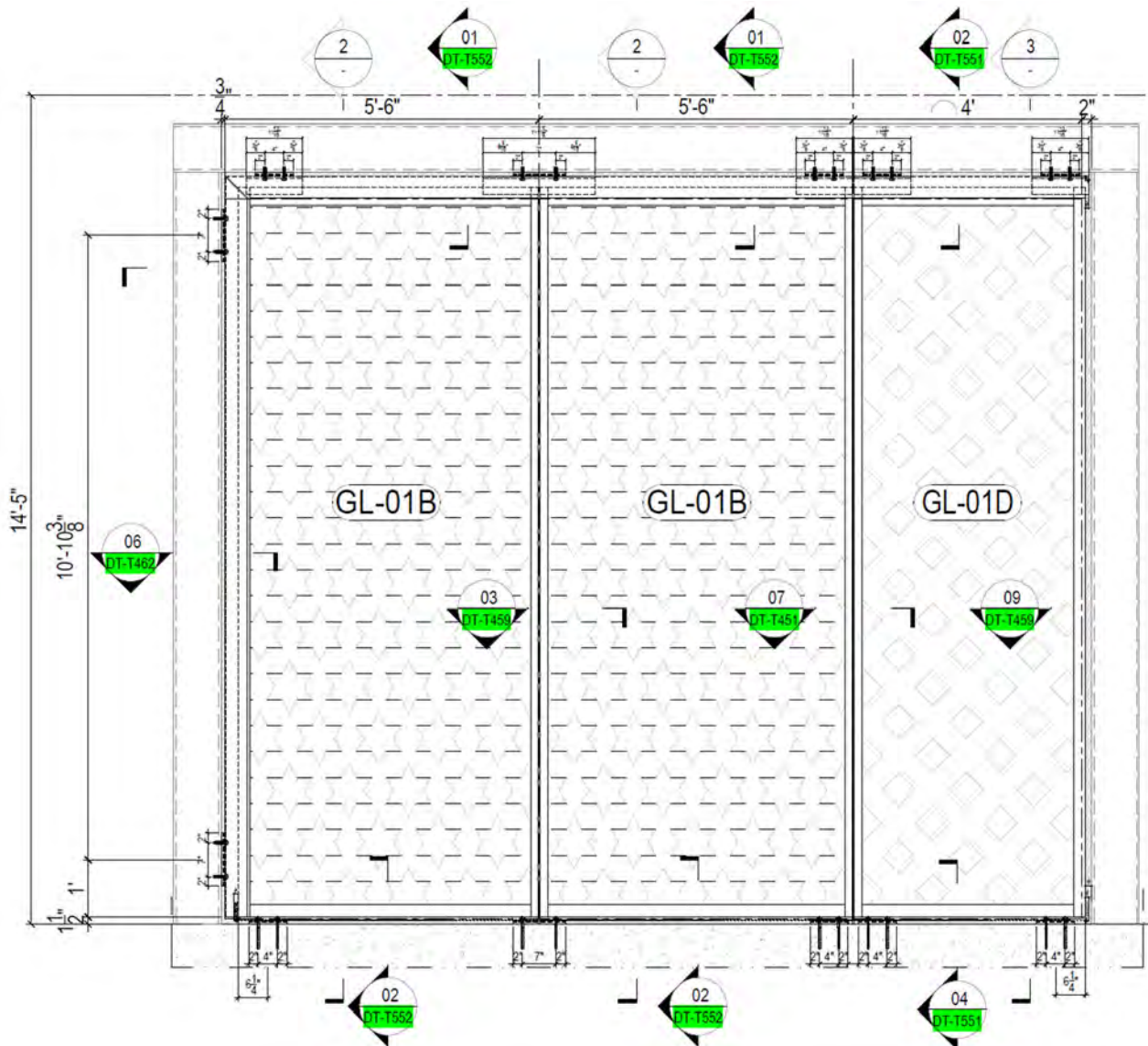


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Specimen 17

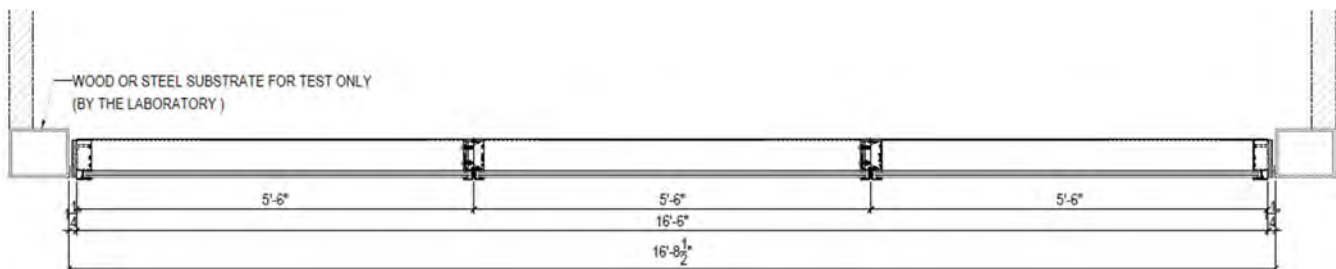
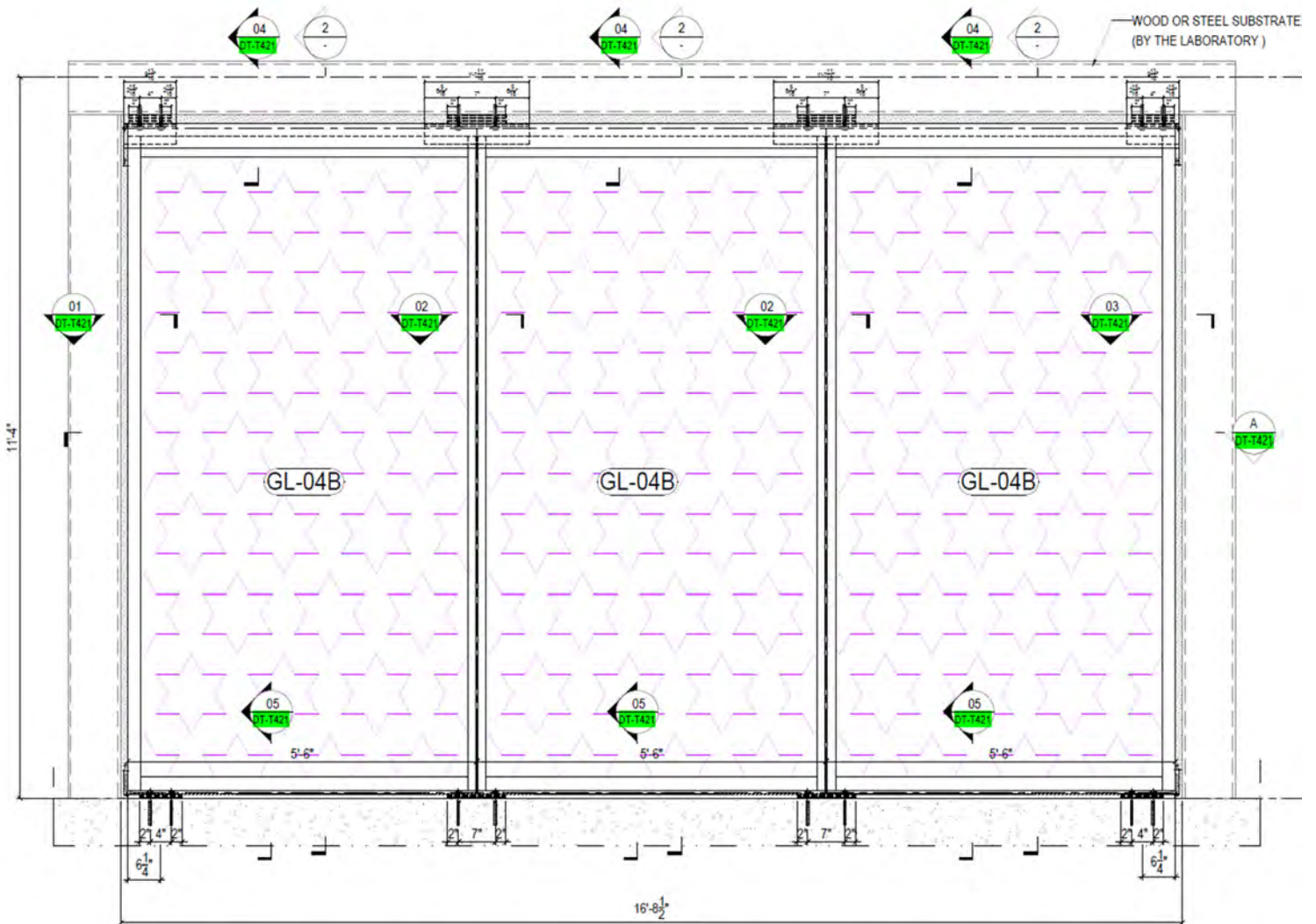


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Specimen 18



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Overall Size:

Specimen 2:

- 244-1/2" W x 130-1/2" H

Specimen 16:

- 203-1/2" W (5'-10 3/4" face dimensions across curved segment) x 126-1/2" H

Specimen 17:

- 181-1/2" W (4'-0 3/4" face dimensions across curved segment) x 155-1/2" H

Specimen 18:

- 198" W x 126-1/2" H

Rough Opening:

Specimen 2:

- 247" W x 132" H

Specimen 16:

- 206" W x 129" H, depth to fit

Specimen 17:

- 184" W x 157" H, depth to fit

Specimen 18:

- 200-1/2" W by 129" H

Daylight Opening:

Specimen 2:

- (2) 77-1/4" W x 121" H
- (1) 78" W x 121" H

Specimen 16:

- (2) 62-1/2" W x 117-1/16" H
- (1) 66-1/2" W x 117-1/16" H

Specimen 17:

- (1) 59-9/16" W x 146" H
- (1) 62-1/2" W x 146" H
- (1) 44-1/2" W x 146" H

Specimen 18:

- (1) 61-3/4" W x 116-13/16" H
- (1) 62-1/2" W x 116-13/16" H
- (1) 61-3/4" W x 116-13/16" H

Glass Composition:

Specimen 2

- GL-01C- Laminated Glass
- 8mm Heat Strengthened Clear Glass
- 2.28mm SGP Interlayer by Kuraray
- 8mm Heat Strengthened Clear Glass

Specimen 16

- GL-01C- Laminated Glass (flat segments)
- 8mm Heat Strengthened Clear Glass
- 2.28mm SGP Interlayer by Kuraray
- 8mm Heat Strengthened Clear Glass

GL-01D- Laminated Glass (Curved Segment)

- 8mm Fully Tempered Clear Glass
- 2.28mm SGP Interlayer by Kuraray
- 8mm Fully Tempered Clear Glass



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Specimen 17

GL-01B- Laminated Glass

- 8mm Fully Tempered Glass
- 1.52mm PVB by Kuraray
- 8mm Fully Tempered Glass

GL-01D- Laminated Glass (Curved Segment)

- 8mm Fully Tempered Clear Glass
- 2.28mm SGP Interlayer by Kuraray
- 8mm Fully Tempered Clear Glass

Specimen 18

GL-04B - Laminated Glass

- 8mm Fully Tempered Glass
- 1.52mm PVB (STC41) Interlayer by Kuraray
- 8mm Fully Tempered Glass

Glazing Sealant:

All Specimens:

- Dowsil 983 for structural glazing
- Dowsil 791 for weatherproofing

Perimeter Sealant:

All Specimens:

- Dowsil 791 for perimeter

Glass Bite:

All Specimens:

- 1" around the perimeter of the glass (3/4" structural glazing plus 1/4" gasket)

Substrate:

Specimens 2

- Jambs & Headers
 - o 2x10 (2) SYP
- Sill
 - o Concrete

Specimens 16, 17, 18

- Jambs & Headers
 - o 8" x 8"x1/4" HSS
- Sill
 - o Concrete

Anchor Details:

Specimen 2:

- Jambs: Free
- Header and Sill:
 - o Clusters of two anchors BOM Item F02 through 8" long shims into wood, at jamb corner of each outside panel, 4" apart, centered 4-15/16" from end of header and BOM Item F02, 4-1/4" min embed, 6-1/4" from ends of sill extrusions.
 - o Two anchors, BOM Item F3601, through 11" long shims, 7" apart, centered on each mullion at the header.

Specimen 16:

- Jambs: Free
- Header and Sill:
 - o Clusters of two anchors BOM Item F3604 (5/8"-11 x 4" Grade 5 Tapflex screw) through 8" long shims, at jamb corner of each outside panel, 4" apart, centered 4-15/16" from end of header and BOM Item F02 (1/2" x 6" Hilti KH-EZ concrete anchor), 4-1/4" min embed, 6-1/4" from ends of sill extrusions.
 - o Two anchors, BOM Item F3604, through 8" long shims, 4" apart, 4-15/16" from mullion centerline, at mullion corner of curved panel at header
 - o Two anchors, BOM Item F3604, through 8" long shims, 4" apart, 4-15/16" from mullion centerline, on straight panel at straight/curved panel mullion at header
 - o Two anchors, BOM Item F3604, through 11" long shims, 7" apart, centered on straight panel mullion at header.



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Specimen 17

- Jambs: Right Jamb Free. Left jamb anchored with two BOM Item F3601 (5/8"-11 x 2-1/2" Grade 5 Tapflex screw) 7" on center, through 11" long shims centered at 12" from top and bottom. (4 anchors on left jamb total)
- Header and Sill:
 - o Clusters of two anchors BOM Item F3601 through 8" long shims, at jamb corner of each outside panel, 4" apart, centered 4-15/16" from end of header and BOM Item F02, 4-1/4" min embed, 6-1/4" from ends of sill extrusions.
 - o Two anchors, BOM Item F3604, through 8" long shims, 4" apart, 4-15/16" from mullion centerline, at mullion corner of curved panel at header
 - o Two anchors, BOM Item F3604, through 8" long shims, 4" apart, 4-15/16" from mullion centerline, on straight panel at straight/curved panel mullion at header
 - o Two anchors, BOM Item F3601, through 11" long shims, 7" apart, centered on straight panel mullion at header.

Specimen 18:

- Jambs: Free
- Header and Sill:
 - o Clusters of two anchors BOM Item F3604 through 8" long shims into steel, at jamb corner of each outside panel, 4" apart, centered 4-15/16" from end of header and BOM Item F02, 4-1/4" min embed, 6-1/4" from ends of sill extrusions.
 - o Two anchors, BOM Item F3601, through 11" long shims, 7" apart, centered on each mullion at the header.

Reinforcements:

Specimen 2:

- None

Specimen 16:

- Mullions
 - o (1) 3/8" x 4-1/2" x 123" lg steel plate at straight panel mullion
 - o (1) 3/8" x 4-1/2" x 123" lg steel plate at straight/curved panel mullion
- Jambs - None

Specimen 17:

- Mullions:
 - o (2) 3/8" x 4-1/2" x 152" lg steel plate
 - o (1) 3/8" x 3-3/4" x 152" lg steel plate
- Jambs
 - o (1) 3/8" x 4-1/2" x 152" long steel plate

Specimen 18:

- Mullions:
 - o (1) 3/8" x 3-7/8" x 128" lg steel plate
- Jambs: None

Frame& Panel Construction:

All Specimens

- Glazing panels constructed of aluminum extrusions screwed together with stainless steel assembly screws (F2448). The screw together panels then are structurally glazed with laminated glass, then connected to the frame and/or adjacent mullions with snap locks. Refer to elevation and die drawings at end of report for complete details about the construction of unit.

Specimens 16 and 17

- Specimens 16 and 17 are three panel systems with two straight panels and one curved panel with a radius of curvature of 5'. Specimen 16 has a 5'-10" face opening, whereas Specimen 17 has a 4' face opening. These specimens are constructed with a head receptor and sill receptor/bracket (EW15002). The glazed panel extrusions form the left and right side jambs. The center panel mullions snap lock to the adjacent panels.

Specimens 2 and 18

- Specimens 2 and 18 are three panel systems with straight panels. These specimens are constructed with a head receptor and sill receptor/bracket (EW15002). The glazed panel extrusions form the left and right side jambs. The center panel mullions snap lock to the adjacent panels. Specimen 18 is constructed with STC41 soundproofing in the interlayer.



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Weatherstripping: (For type of material and more information about weatherstripping reference attached drawings)

All Specimens:

- (2) sets GA05101 silicone bulb gaskets at mullion joints
- GA04102 silicone gasket at interior and exterior of mullion snap lock joint
- GA02106 silicone gasket on exterior of head receptor
- GA05103 and GA011- silicone gasket on interior of head receptor
- GA07149 silicone gasket on sill exterior
- GA04102 silicone gasket on sill receptor

Hardware:

All Specimens :

- N/A

Weepholes:

All Specimens:

- Weeps are provided at the base of all panels, discharging behind gasket GA07149 to the exterior of the sill receptor.

Test Sequence:

Specimen 2:

1. Air Infiltration ASTM E283
2. TAS 202 @+/-52.5 psf for 30 seconds
3. TAS 202-94 @+/-70 psf for 30 seconds
4. TAS 202-94 @+/-105 psf for 30 seconds
5. Disassembly Test ASTM F588
6. TAS 201/ASTM E1996 Large Missile Impacts (Level D)
7. TAS 203/ ASTM E1886 @ +/-70 psf

Specimen 16:

1. Air Infiltration ASTM E283
2. TAS 202 @+/-86.25 psf for 30 seconds
3. TAS 202-94 @+/-115 psf for 30 seconds
4. Water Infiltration ASTM E331 (performed at DP for 125 psf design pressure to qualify Specimen 17)
5. TAS 202-94 @+/-172.5 psf for 30 seconds
6. TAS 201/ASTM E1996 Large Missile Impacts (Level D)
7. TAS 203/ ASTM E1886 @ +/-115 psf

Specimen 17:

1. Air Infiltration ASTM E283
2. TAS 202 @+/-93.75 psf for 30 seconds
3. TAS 202-94 @+/-125 psf for 30 seconds
4. TAS 202-94 @+/-187.5 psf for 30 seconds
5. TAS 201/ASTM E1996 Small Missile Impacts (Level A)
6. TAS 203/ ASTM E1886 @ +/-125 psf

Specimen 18:

1. Air Infiltration ASTM E283
2. TAS 202 @+/-97.5 psf for 30 seconds
3. TAS 202-94 @+/-130 psf for 30 seconds
4. Water Infiltration ASTM E331
5. TAS 202-94 @+/-195 psf for 30 seconds
6. TAS 201/ASTM E1996 Small Missile Impacts (Level A)
7. TAS 203/ ASTM E1886 @ +/-130 psf



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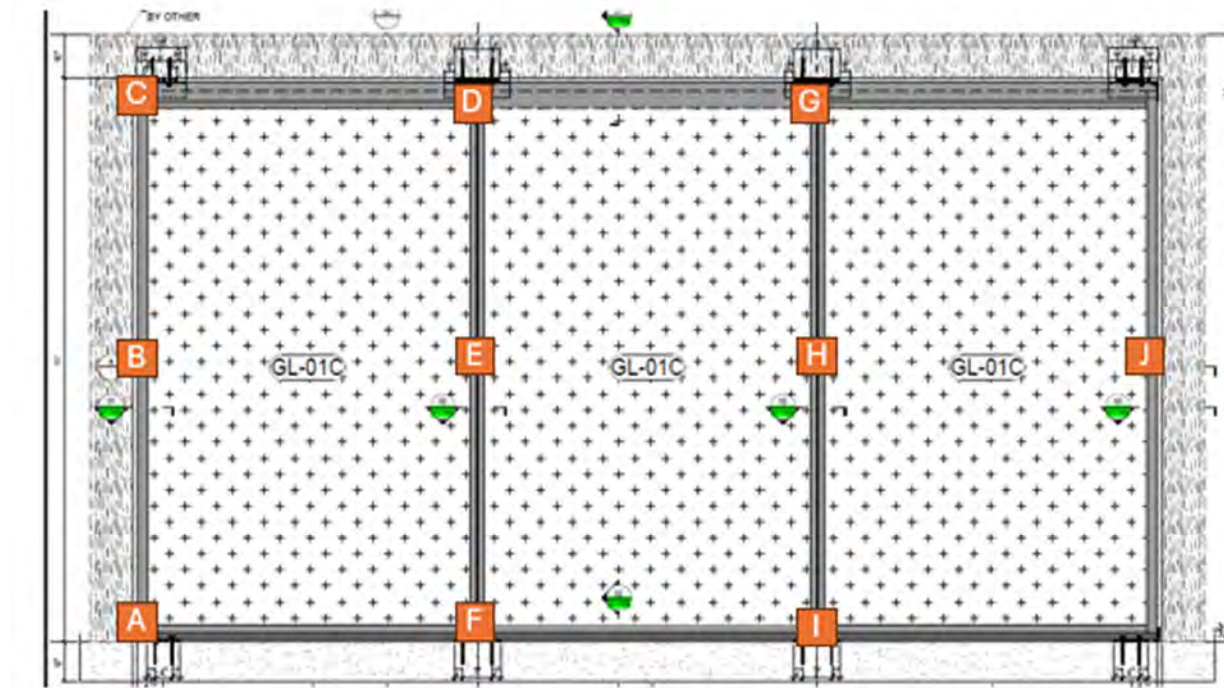


Test Results

Note: Figures are for visual reference of gauge and impact locations only and may not reflect actual specimen details.

TAS 202

SPECIMEN #2



GAUGE LOCATIONS SPECIMEN 2

#1 Air Infiltration (T= 74° F)

Test Pressure (psf)	Square footage (ft ²)	Baseline Measured Flow (cfm)	Specimen Measured Flow (cfm)	Delta Flow (cfm)	Leakage [Delta flow/sqft] (cfm/ft ²)	Allowed Flow (cfm/ft ²)
6.24	220	836.7	848.2	11.5	0.05	0.06



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TAS 202

SPECIMEN #2

#2 Static Preload (T= 74° F)

STATIC LOAD DATA SHEET							Design Pressure Positive	Design Pressure Negative														
							70.00	70.00														
					A		B		C		D		E		F		G		H		I	
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.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
0.5TL	Positive	52.500	10.096	30.000	0.000	0.000	0.500	0.063	0.063	0.000	0.063	0.000	0.250	0.063	0.063	0.000	0.063	0.000	0.375	0.000	0.000	0.000
0.5TL	Negative	52.500	10.096	30.000	0.000	0.000	0.500	0.063	0.063	0.000	0.063	0.000	0.313	0.063	0.063	0.000	0.063	0.000	0.438	0.000	0.000	0.000
					J																	
Load Factor	Positive/Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)																
0.5TL	Positive	52.500	10.096	30.000	0.250	0.000																
0.5TL	Negative	52.500	10.096	30.000	0.313	0.000																

#3 Static Design load (T= 74° F)

STATIC LOAD DATA SHEET							Design Pressure Positive	Design Pressure Negative														
							70.00	70.00														
							A															
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.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
DP	Positive	70.000	13.462	30.000	0.063	0.000	0.625	0.063	0.125	0.000	0.063	0.000	0.375	0.063	0.000	0.000	0.063	0.000	0.500	0.063	0.000	0.000
DP	Negative	70.000	13.462	30.000	0.063	0.000	0.688	0.063	0.125	0.000	0.063	0.000	0.438	0.000	0.063	0.000	0.063	0.000	0.500	0.063	0.063	0.000
					J																	
Load Factor	Positive/ Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)																
DP	Positive	70.000	13.462	30.000	0.625	0.063																
DP	Negative	70.000	13.462	30.000	0.688	0.063																



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TAS 202

SPECIMEN #2

#4 Static Overload (T= 74° F)

STATIC LOAD DATA SHEET							Design Pressure Positive	Design Pressure Negative														
							70.00	70.00														
							A		B		C		D		E		F		G		H	
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.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
TL	Positive	105.000	20.192	30.000	0.188	0.000	0.750	0.063	0.188	0.063	0.188	0.063	0.500	0.063	0.063	0.000	0.188	0.000	0.625	0.063	0.188	0.000
TL	Negative	105.000	20.192	30.000	0.313	0.000	0.813	0.000	0.188	0.063	0.188	0.063	0.563	0.000	0.063	0.000	0.188	0.000	0.688	0.125	0.188	0.000
							J															
Load Factor	Positive/Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)																
TL	Positive	105.000	20.192	30.000	0.750	0.063																
TL	Negative	105.000	20.192	30.000	0.813	0.125																

#5 Disassembly Test (T= 74° F)

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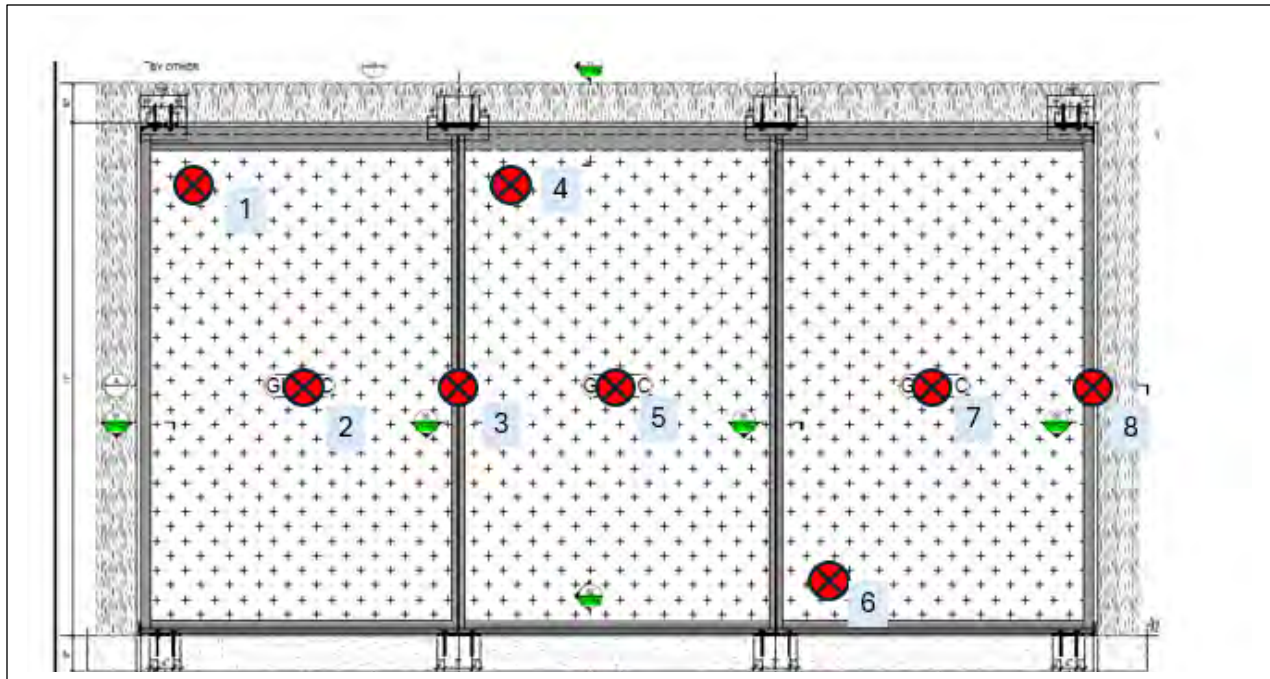
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MIAMI-DADE CERTIFICATION #21-0909.01 ISO/IEC 17025:2017 AT-2584



TAS 201/ASTM E1996 (Large)

SPECIMEN # 2



#6 Large Missile Impact Test (T= 72° F)

LARGE MISSILE IMPACT DATA SHEET					
	Location				Results
Shot	Area	X (in.)	Y (in.)	Keyence (ft/s)	Pass/Fail
1	Corner	9	117	50	PASS
2	Center	39	66	50	PASS
3	Side	81	59	50	PASS
4	Corner	88	9	50	PASS
5	Center	120	62	50	PASS
6	Corner	169	8	50	PASS
7	Center	203	62	50	PASS
8	Side	243	62	50	PASS

Measured from bottom left corner. Note that impact #4 was taken at lower left corner rather than upper left as shown in figure.



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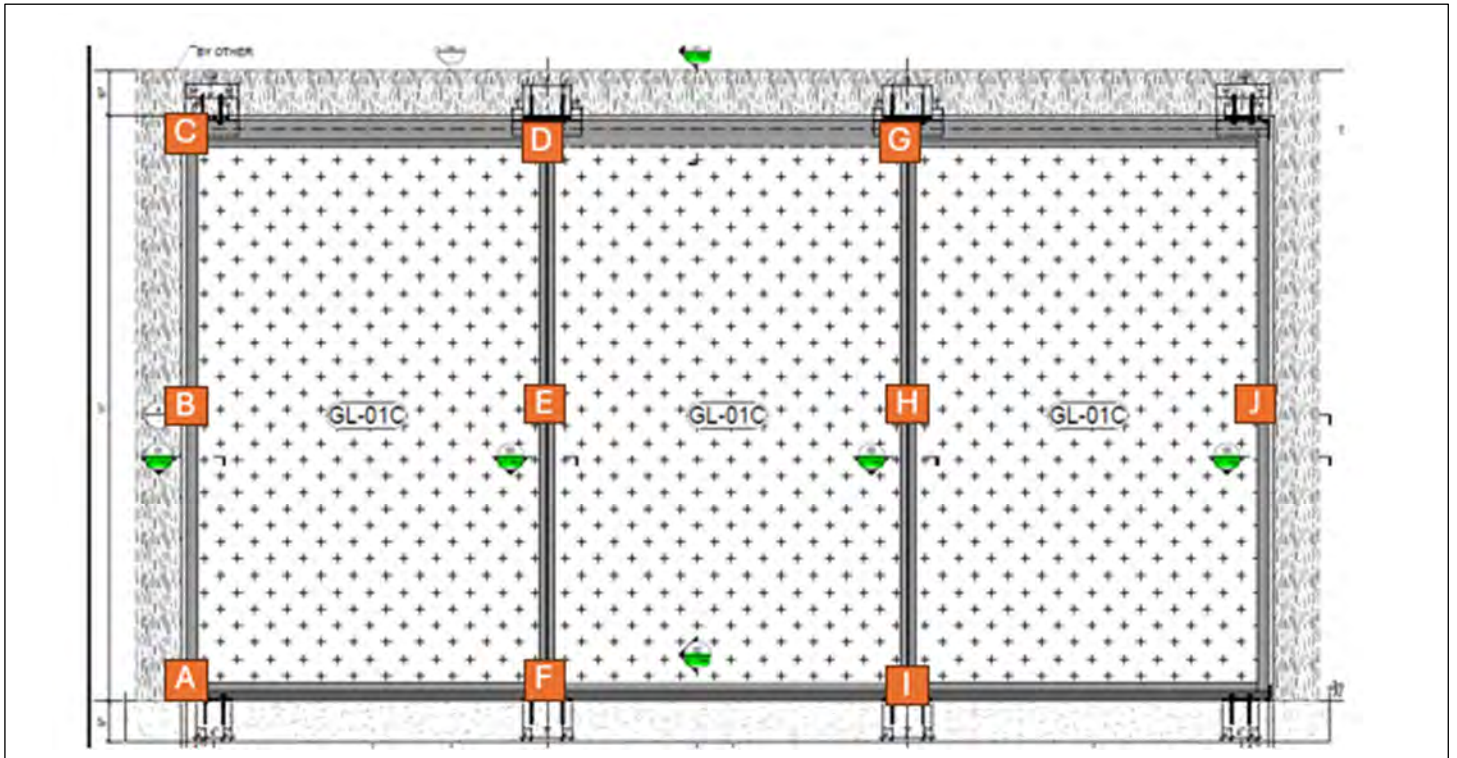
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TAS 203 (Cyclic Load)

Specimen #2





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



Specimen #2

#7 TAS 203 (Cyclic Load) (T= 72° F)

CYCLIC LOAD DATA SHEET				Pd psf										
				High	Low									
				70.00	70.00									
Positive Pressure														
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.)	
20% to 50%	35	2.69	6.73	0.063	0.000	0.500	0.000	0.063	0.000	0.063	0.000	0.313	0.000	2.400
0% to 60%	42	0	8.08	0.125	0.063	0.625	0.125	0.188	0.063	0.188	0.063	0.375	0.125	2.700
50% to 80%	56	6.73	10.77	0.125	0.000	0.625	0.063	0.375	0.000	0.250	0.000	0.500	0.063	2.400
30% to 100%	70.00	4.04	13.46	0.125	0.000	0.750	0.063	0.375	0.063	0.188	0.000	0.500	0.063	2.900
Positive Pressure														
Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	F		G		H		I		J		
				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.)	
20% to 50%	35	2.69	6.73	0.125	0.000	0.125	0.000	0.438	0.000	0.063	0.000	0.313	0.000	
0% to 60%	42	0.00	8.08	0.188	0.125	0.250	0.063	0.500	0.125	0.125	0.000	0.375	0.063	
50% to 80%	56	6.7307692	10.77	0.125	0.000	0.250	0.063	0.563	0.063	0.063	0.000	0.625	0.063	
30% to 100%	70	4.04	13.46	0.125	0.000	0.250	0.063	0.625	0.063	0.125	0.000	0.750	0.063	
Negative Pressure														
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.)	
30% to 100%	70	4.04	13.46	0.188	0.063	0.813	0.125	0.438	0.125	0.375	0.000	0.563	0.125	3.000
50% to 80%	56	6.73	10.77	0.188	0.063	0.688	0.125	0.438	0.000	0.375	0.125	0.563	0.063	2.500
0% to 60%	42	0	8.08	0.125	0.000	0.625	0.000	0.188	0.000	0.250	0.000	0.438	0.000	2.800
20% to 50%	35	2.69	6.73	0.063	0.000	0.500	0.063	0.063	0.000	0.125	0.000	0.375	0.063	2.500
Negative Pressure														
Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	F		G		H		I		J		
				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.)	
30% to 100%	70	4.04	13.46	0.188	0.063	0.313	0.125	0.625	0.125	0.188	0.000	0.079	0.063	
50% to 80%	56	6.73	10.77	0.188	0.063	0.313	0.125	0.625	0.000	0.125	0.000	0.625	0.063	
0% to 60%	42	0	8.08	0.125	0.000	0.250	0.000	0.563	0.063	0.125	0.000	0.438	0.000	
20% to 50%	35	2.69	6.73	0.125	0.000	0.188	0.063	0.500	0.063	1.800	0.000	0.375	0.063	



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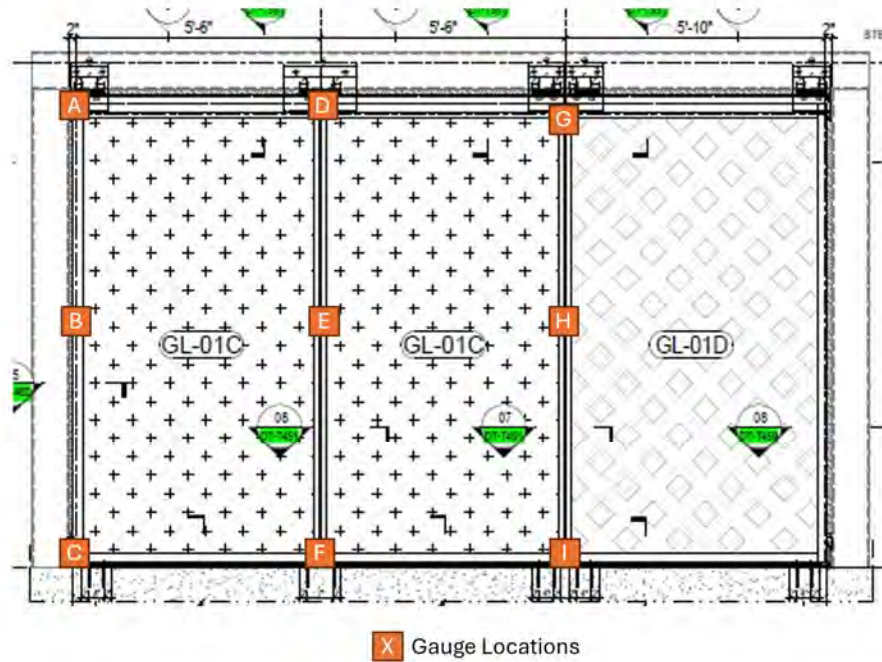
Phone: 561-508-2830

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



TAS 202

SPECIMEN #16



#1 Air Infiltration (T= 78° F)

Test Pressure (psf)	Square footage (ft ²)	Baseline Measured Flow (cfm)	Specimen Measured Flow (cfm)	Delta Flow (cfm)	Leakage [Delta flow/sqft] (cfm/ft ²)	Allowed Flow (cfm/ft ²)
6.24	164	484.95	491.9	6.95	0.04	0.06



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



TAS 202

SPECIMEN #16

#2 Static Preload (T= 80° F)

STATIC LOAD DATA SHEET					Design Pressure																	
					Positive	Negative																
					115.00	115.00																
				A		B		C		D		E		F		G		H		I		
Load Direction	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.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	
Positive	86.250	16.587	30.000	0.063	0.000	0.688	0.000	0.000	0.000	0.125	0.000	0.750	0.125	0.000	0.000	0.000	0.000	0.375	0.000	0.000	0.000	
Negative	86.250	16.587	30.000	0.000	0.000	0.500	0.063	0.000	0.000	0.188	0.063	0.563	0.188	0.000	0.000	0.125	0.000	0.500	0.000	0.000	0.000	

#3 Water Infiltration Test (T= 80° F)

Test Pressure (psf)	Test Duration (min)	Water Leakage Pass/Fail
18.75 psf	15	PASS

Note: Water infiltration performed at DP=125 to qualify Specimens 16 and 17

#4 Static Design load (T= 80° F)

STATIC LOAD DATA SHEET					Design Pressure																	
					Positive	Negative																
					115.00	115.00																
					A		B		C		D		E		F		G		H		I	
Load Factor	Load Direction	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.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
DP	Positive	115.000	22.115	30.000	0.063	0.000	0.500	0.063	0.000	0.000	0.125	0.000	0.563	0.000	0.000	0.000	0.125	0.063	0.125	0.000	0.000	0.000
DP	Negative	115.000	22.115	30.000	0.125	0.063	0.250	0.000	0.000	0.000	0.188	0.000	0.250	0.063	0.000	0.000	0.188	0.000	0.063	0.000	0.000	0.000

#5 Static Overload (T= 81° F)

STATIC LOAD DATA SHEET					Design Pressure																	
					Positive	Negative																
					115.00	115.00																
					A		B		C		D		E		F		G		H		I	
Load Factor	Load Direction	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.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
TL	Positive	172.500	33.173	30.000	1/4	0.000	0.625	0.063	0.000	0.000	0.250	0.000	0.750	0.063	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000
TL	Negative	172.500	33.173	30.000	0.250	0.063	0.438	0.000	0.063	0.000	0.375	0.063	0.438	0.063	0.063	0.000	0.313	0.000	0.438	0.000	0.000	0.000



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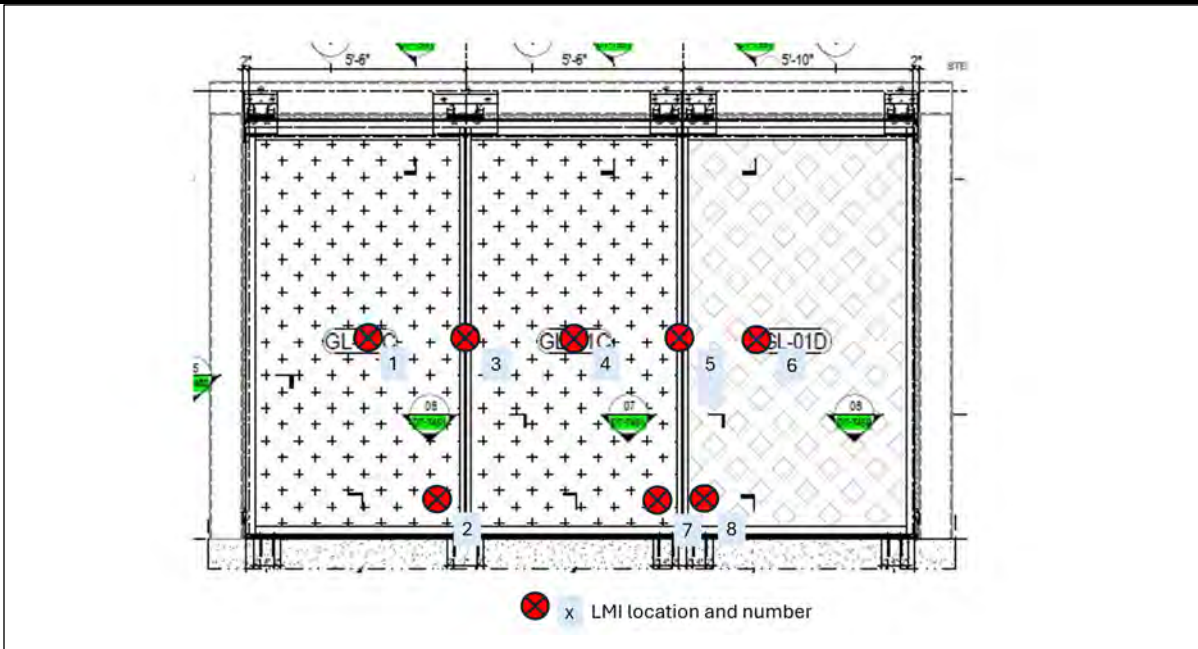
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MIAMI-DADE CERTIFICATION #21-0909.01 ISO/IEC 17025:2017 AT-2584



TAS 201/ASTM E1996 (Large)

SPECIMEN # 16



#6 Large Missile Impact Test (T= 75° F)

LARGE MISSILE IMPACT DATA SHEET					
	Location				Results
Shot	Area	X (in.)	Y (in.)	Keyence (ft/s)	Pass/Fail
1	Center	33	61	50	PASS
2	Corner	59	10	50	PASS
3	Mullion	66	61	50.1	PASS
4	Center	99	61	50	PASS
5	Mullion	132	61	50	PASS
6	Center	165	61	50.1	PASS
7	Corner	125	9	50	PASS
8	Corner	139	9	50	PASS



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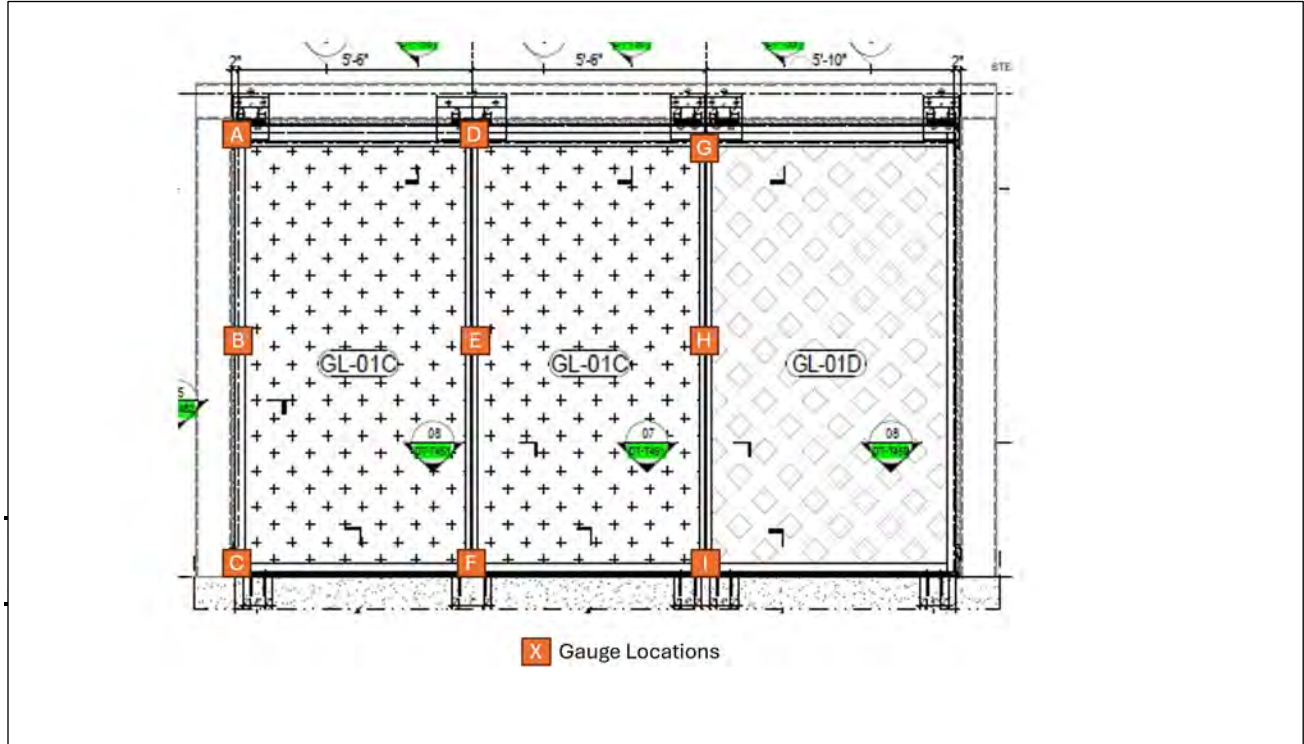
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TAS 203 (Cyclic Load)

Specimen #16





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TAS 203 (Cyclic Load)

SPECIMEN #16

#7 TAS 203 (Cyclic Load) (T= 65° F)

CYCLIC LOAD DATA SHEET					Pd psf									
					High	Low								
					115.00	115.00								
Positive Pressure														
Cycles	Load Range	High Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		E	
					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%	57.5	4.42	11.06	0.063	0.000	0.313	0.000	0.063	0.000	0.125	0.000	0.500	0.063
300	0% to 60%	69	0	13.27	0.063	0.000	0.438	0.000	0.063	0.000	0.125	0.000	0.625	0.000
600	50% to 80%	92	11.06	17.69	0.063	0.000	0.500	0.000	0.063	0.000	0.188	0.063	1.833	0.063
100	30% to 100%	115.00	6.63	22.12	0.125	0.063	1.000	0.063	0.063	0.000	0.250	0.063	1.125	0.063
Positive Pressure														
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	F		G		H		I			
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)		
3500	20% to 50%	57.5	4.42	11.06	0.000	0.000	0.063	0.000	0.313	0.000	0.125	0.000		
300	0% to 60%	69	0.00	13.27	0.063	0.000	0.063	0.000	0.375	0.000	0.063	0.000		
600	50% to 80%	92	11.057692	17.69	0.063	0.000	0.063	0.000	0.500	0.000	0.250	0.000		
100	30% to 100%	115	6.63	22.12	0.063	0.000	0.125	0.063	0.750	0.063	0.125	0.000		
Negative Pressure														
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		E	
					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%	115	6.63	22.12	0.125	0.000	0.750	0.063	0.063	0.000	0.313	0.063	1.000	0.125
1050	50% to 80%	92	11.06	17.69	0.063	0.000	0.625	0.000	0.063	0.000	0.188	0.000	0.750	0.063
50	0% to 60%	69	0	13.27	0.063	0.000	0.500	0.000	0.063	0.000	0.125	0.000	0.500	0.000
3350	20% to 50%	57.5	4.42	11.06	0.063	0.063	0.500	0.125	0.063	0.000	0.125	0.063	0.500	0.250
Negative Pressure														
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	F		G		H		I			
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)		
50	30% to 100%	115	6.63	22.12	0.063	0.000	0.313	0.063	0.688	0.063	0.063	0.000		
1050	50% to 80%	92	11.06	17.69	0.063	0.000	0.188	0.000	0.500	0.000	0.063	0.000		
50	0% to 60%	69	0	13.27	0.063	0.006	0.063	0.000	0.375	0.063	0.063	0.000		
3350	20% to 50%	57.5	4.42	11.06	0.063	0.000	0.125	0.063	0.313	0.063	0.125	0.000		



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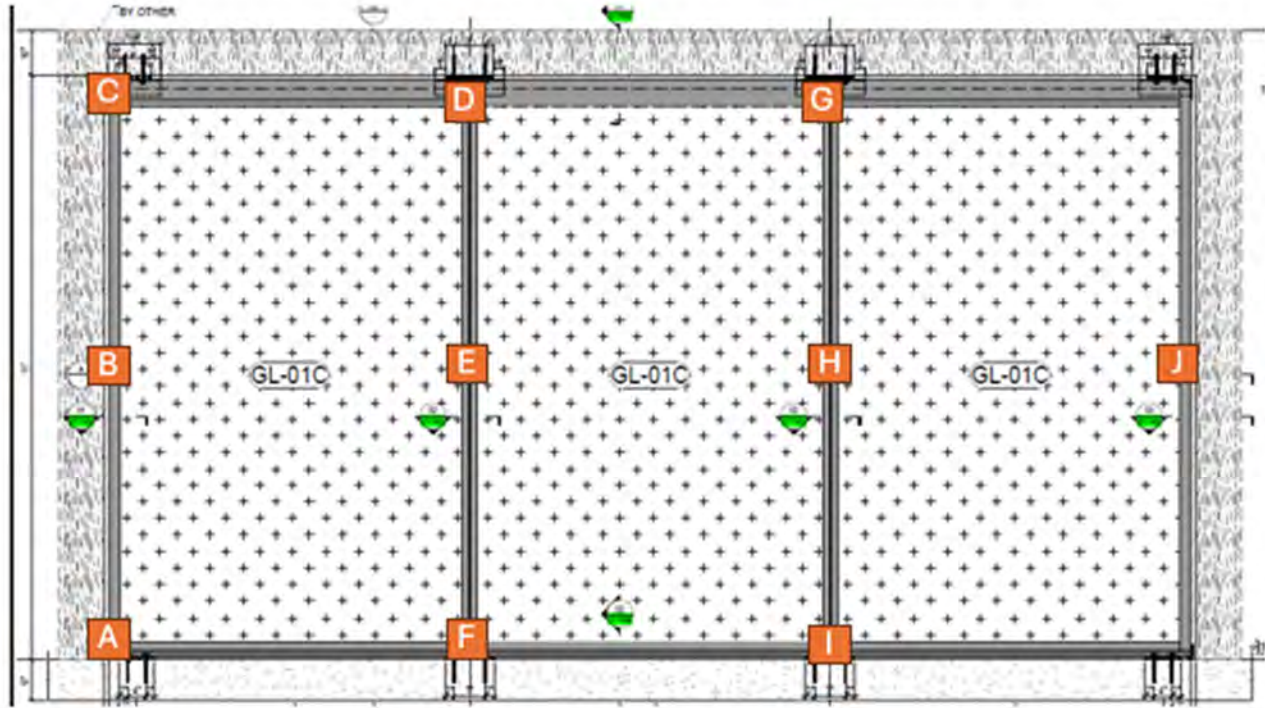
Phone: 561-508-2830

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



TAS 202

SPECIMEN #18



#1 Air Infiltration (T= 81° F)

Test Pressure (psf)	Square footage (ft ²)	Baseline Measured Flow (cfm)	Specimen Measured Flow (cfm)	Delta Flow (cfm)	Leakage [Delta flow/sqft] (cfm/ft ²)	Allowed Flow (cfm/ft ²)
6.24	173	786.2	795.1	8.9	.05	0.06



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TAS 202

SPECIMEN #18

#2 Static Preload (T= 80° F)

STATIC LOAD DATA SHEET							Design Pressure Positive	Design Pressure Negative															
							130.00	130.00															
							A																
Load Factor	Load Direction	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.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	
0.5TL	Positive	97.500	18.750	30.000	0.063	0.000	0.313	0.000	0.000	0.000	0.006	0.000	0.313	0.125	0.125	0.063	0.125	0.000	0.375	0.125	0.125	0.063	
0.5TL	Negative	97.500	18.750	30.000	0.125	0.063	0.375	0.063	0.063	0.000	0.188	0.063	0.375	0.125	0.125	0.125	0.188	0.063	0.438	0.125	0.063	0.000	
					J																		
Load Factor	Positive/Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)																	
0.5TL	Positive	97.500	18.750	30.000	0.250	0.000																	
0.5TL	Negative	97.500	18.750	30.000	0.313	0.000																	

#3 Static Design load (T= 80° F)

STATIC LOAD DATA SHEET						Design Pressure Positive	Design Pressure Negative															
						130.00	130.00															
					A		B		C		D		E		F		G		H		I	
Load Factor	Load Direction	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.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
DP	Positive	130.000	25.000	30.000	0.063	0.000	0.500	0.000	0.000	0.000	0.063	0.000	0.438	0.063	0.125	0.000	0.125	0.000	0.500	0.000	0.063	0.000
DP	Negative	130.000	25.000	30.000	0.125	0.000	0.563	0.000	0.063	0.000	0.375	0.000	0.563	0.063	0.125	0.000	0.250	0.000	0.563	0.063	0.125	0.000
					J																	
Load Factor	Positive/Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)																
DP	Positive	130.000	25.000	30.000	0.500	0.000																
DP	Negative	130.000	25.000	30.000	0.563	0.000																

#4 Water Infiltration Test (T= 80° F)

Test Pressure (psf)	Test Duration (min)	Water Leakage Pass/Fail
18.75 psf	15	PASS



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#5 Static Overload (T= 80° F)

STATIC LOAD DATA SHEET					Design Pressure																			
					Positive	Negative																		
					130.00	130.00																		
					A		B		C		D		E		F		G		H		I			
Load Factor	Load Direction	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.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)		
TL	Positive	195.000	37.500	30.000	0.188	0.063	0.688	0.063	0.188	0.000	0.375	0.063	0.750	0.063	0.125	0.000	0.125	0.063	0.875	0.063	0.188	0.063		
TL	Negative	195.000	37.500	30.000	0.125	0.063	0.750	0.063	0.125	0.000	0.250	0.125	0.875	0.125	0.125	0.063	0.125	0.000	1.000	0.125	0.125	0.063		
					J																			
Load Factor	Positive/Negative	Load psf	Load Inch Water	Load Duration (s)	Defl(in.)	Permanent Set (in.)																		
TL	Positive	195.000	37.500	30.000	0.750	0.063																		
TL	Negative	195.000	37.500	30.000	0.750	0.063																		



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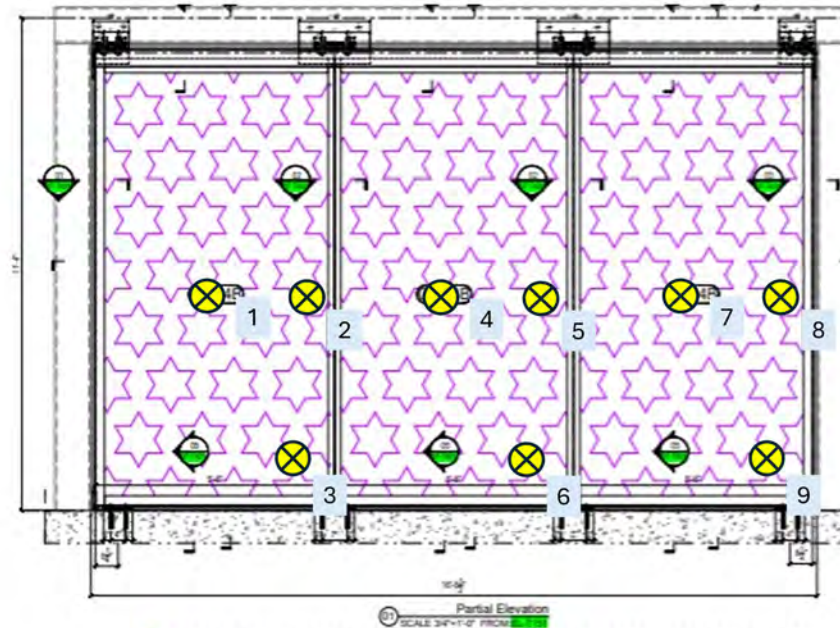
Phone: 561-508-2830

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



TAS 201/ASTM E1996 (SMALL)

SPECIMEN # 18



SMALL MISSILE LOCATIONS SPECIMEN 18

#6 SMALL Missile Impact Test (T= 83° F)

SMALL MISSILE IMPACT DATA SHEET					
	Location				Results
Shot	Area	X (in.)	Y (in.)		Pass/Fail
1	Center	34	61		PASS
2	edge	57	61		PASS
3	Corner	59	10		PASS
4	Center	100	64		PASS
5	Edge	125	62		PASS
6	Corner	125	10		PASS
7	Center	16	62		PASS
8	Edge	190	63		PASS
9	Corner	190	10		PASS

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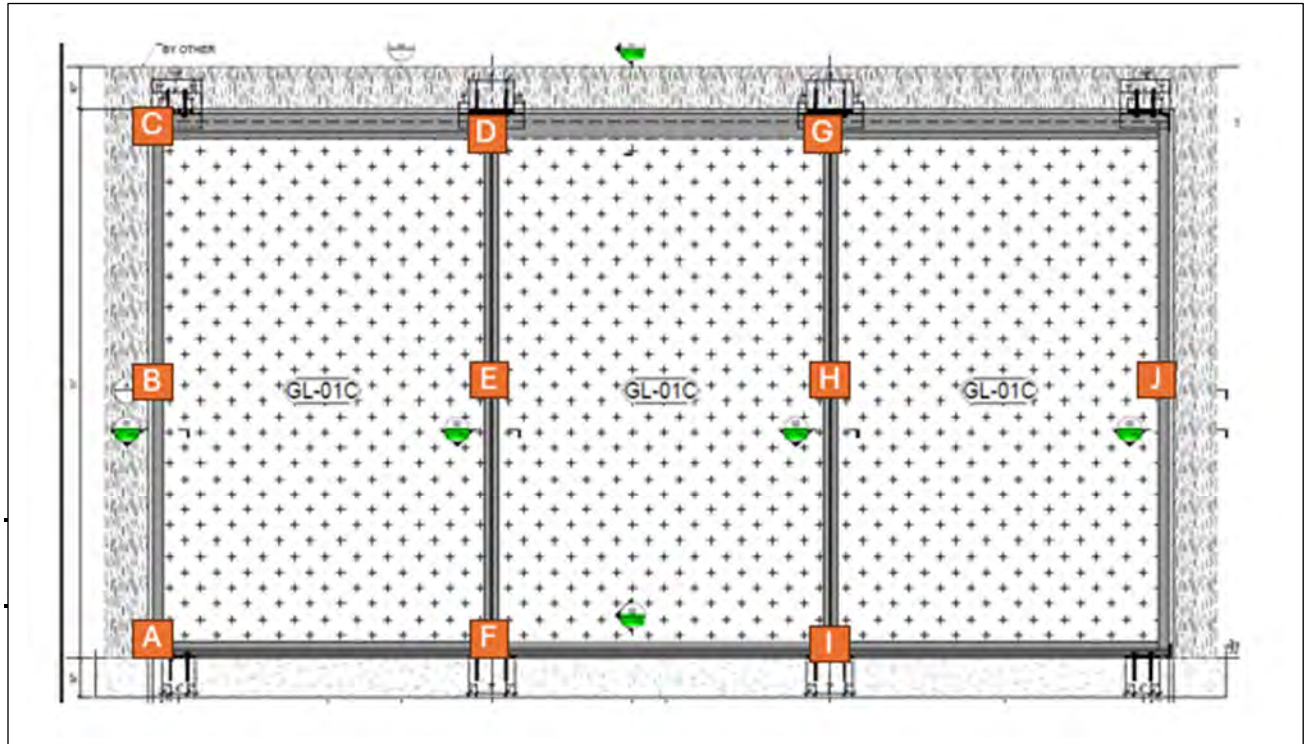
Phone: 561-508-2830

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



TAS 203 (Cyclic Load)

Specimen #18





BLACKWATER TECHNICAL SERVICES INC.

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Phone: 561-508-2830

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



TAS 203 (Cyclic Load)

SPECIMEN #18

#7 TAS 203 (Cyclic Load) (T= 83° F)

CYCLIC LOAD DATA SHEET					Pd psf									
					High	Low								
					130.00	130.00								
Positive Pressure														
Cycles	Load Range	High Load (psf)	LOW Load (H2O)	HIGH Load (H2O)	A		B		C		D		E	
					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%	65	5.00	12.50	0.000	0.000	0.313	0.063	0.000	0.000	0.000	0.000	0.188	0.063
300	0% to 60%	78	0	15.00	0.067	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.375	0.000
600	50% to 80%	104	12.50	20.00	1.000	0.000	0.500	0.000	0.063	0.000	0.125	0.000	0.500	0.000
100	30% to 100%	130.00	7.50	25.00	0.125	0.000	0.625	0.000	0.125	0.063	0.375	0.063	0.688	0.063
Positive Pressure														
No. of cycles	Range	Load (psf)	LOW Load (H2O)	HIGH Load (H2O)	F		G		H		I		J	
					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%	65	5.00	12.50	0.000	0.000	0.063	0.063	0.375	0.063	0.063	0.000	0.375	0.000
300	0% to 60%	78	0.00	15.00	0.000	0.000	0.188	0.000	0.438	0.000	0.063	0.000	0.250	0.000
600	50% to 80%	104	12.5	20.00	0.063	0.000	0.250	0.000	0.500	0.125	0.063	0.063	0.375	0.063
100	30% to 100%	130	7.50	25.00	0.125	0.063	0.313	0.063	0.688	0.250	0.125	0.063	0.625	0.063
Negative Pressure														
No. of cycles	Range	Load (psf)	LOW Load (H2O)	HIGH Load (H2O)	A		B		C		D		E	
					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%	130	7.50	25.00	0.188	0.063	0.625	0.063	0.125	0.063	0.375	0.125	0.750	0.063
1050	50% to 80%	104	12.50	20.00	0.125	0.000	0.500	0.063	0.063	0.000	0.250	0.000	0.625	0.063
50	0% to 60%	78	0	15.00	0.000	0.000	0.375	0.000	0.000	0.000	0.250	0.000	0.500	0.000
3350	20% to 50%	65	5.00	12.50	0.000	0.000	0.188	0.000	0.000	0.000	0.188	0.125	0.313	0.000
Negative Pressure														
No. of cycles	Range	Load (psf)	LOW Load (H2O)	HIGH Load (H2O)	F		G		H		I		J	
					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%	130	7.50	25.00	0.250	0.125	0.250	0.063	0.750	0.063	0.188	0.063	0.625	0.000
1050	50% to 80%	104	12.50	20.00	0.125	0.063	0.375	0.063	0.625	0.063	0.125	0.063	0.500	0.063
50	0% to 60%	78	0	15.00	0.063	0.000	0.125	0.000	0.188	0.000	0.063	0.000	0.188	0.000
3350	20% to 50%	65	5.00	12.50	0.000	0.000	0.125	0.063	0.063	0.063	0.063	0.000	0.063	0.000



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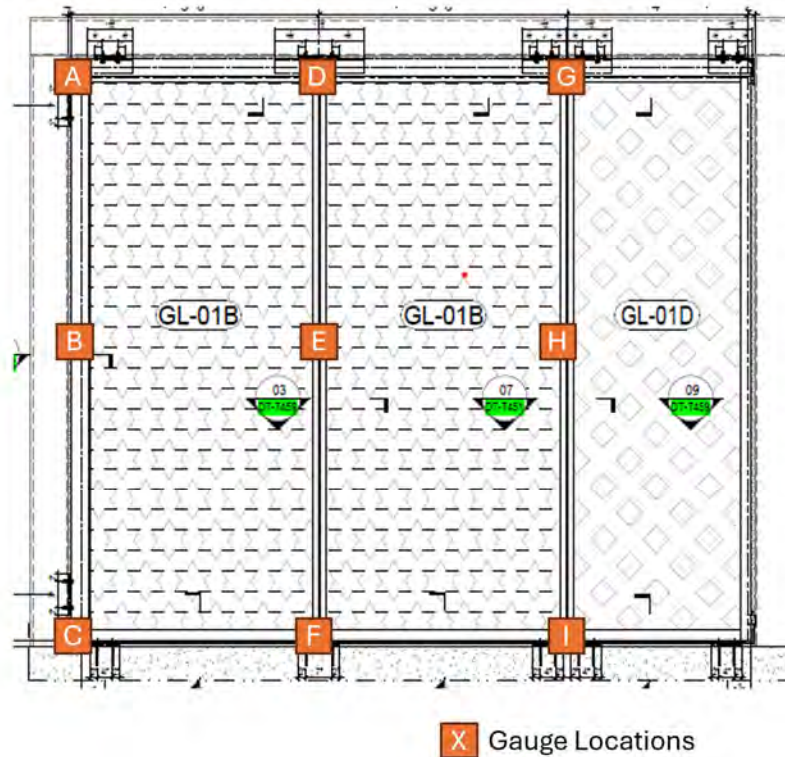
Phone: 561-508-2830

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



TAS 202

SPECIMEN #17



#1 Air Infiltration (T= 77° F)

Test Pressure (psf)	Square footage (ft ²)	Baseline Measured Flow (cfm)	Specimen Measured Flow (cfm)	Delta Flow (cfm)	Leakage [Delta flow/sqft] (cfm/ft ²)	Allowed Flow (cfm/ft ²)
6.24	193	654.2	665.0	10.8	.056	0.06



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



TAS 202

SPECIMEN #17

#2 Static Preload (T= 80° F)

STATIC LOAD DATA SHEET					Design Pressure																	
					Positive																	
					125.00		125.00															
					A		B		C		D		E		F		G		H		I	
Load Factor	Load Direction	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.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
0.5TL	Positive	93.750	18.029	30.000	0.000	0.000	0.313	0.000	0.000	0.000	0.125	0.000	0.313	0.125	0.063	0.000	0.063	0.000	0.438	0.063	0.000	0.000
0.5TL	Negative	93.750	18.029	30.000	0.063	0.000	0.250	0.125	0.000	0.000	0.375	0.125	0.375	0.250	0.125	0.063	0.125	0.063	0.438	0.125	0.063	0.000

#3 Static Design load (T= 80° F)

STATIC LOAD DATA SHEET					Design Pressure																	
					Positive																	
					125.00		125.00															
					A		B		C		D		E		F		G		H		I	
Load Factor	Load Direction	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.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
DP	Positive	125.000	24.038	30.000	0.063	0.000	0.750	0.000	0.000	0.000	0.188	0.000	0.750	0.000	0.125	0.000	0.063	0.000	0.688	0.000	0.063	0.000
DP	Negative	125.000	24.038	30.000	0.125	0.000	0.750	0.000	0.000	0.000	0.438	0.063	0.813	0.063	0.125	0.000	0.125	0.063	0.813	0.063	0.063	0.000

#4 Static Overload (T= 80° F)

STATIC LOAD DATA SHEET					Design Pressure																	
					Positive																	
					125.00		125.00															
					A		B		C		D		E		F		G		H		I	
Load Factor	Load Direction	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.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)	Defl(in.)	Permanent Set (in.)
TL	Positive	187.500	36.058	30.000	0.063	0.063	1.063	0.063	0.000	0.000	0.313	0.063	1.063	0.125	0.063	0.000	0.000	0.000	1.000	0.000	0.063	0.000
TL	Negative	187.500	36.058	30.000	0.188	0.063	1.125	0.000	0.063	0.063	0.625	0.063	1.063	0.125	0.188	0.000	0.313	0.063	1.250	0.063	0.000	0.000



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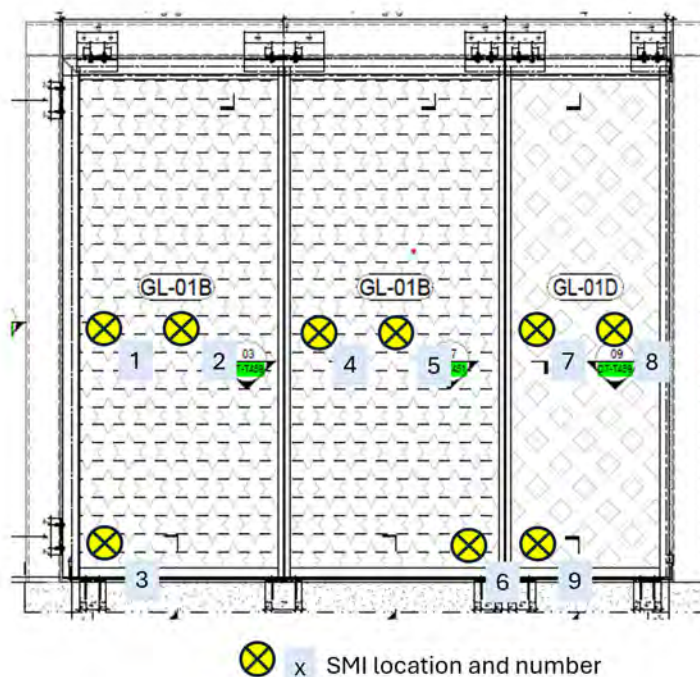
Phone: 561-508-2830

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



TAS 201/ASTM E1996 (SMALL)

SPECIMEN # 17



#5 SMALL Missile Impact Test (T= 74° F)

SMALL MISSILE IMPACT DATA SHEET				
	Location			Results
Shot	Area	X (in.)	Y (in.)	Pass/Fail
1	Edge	9	76	PASS
2	Center	37	76	PASS
3	Corner	9	10	PASS
4	Edge	75	77	PASS
5	Center	104	76	PASS
6	Corner	128	10	PASS
7	Edge	144	77	PASS
8	Center	165	77	PASS
9	Corner	144	10	PASS

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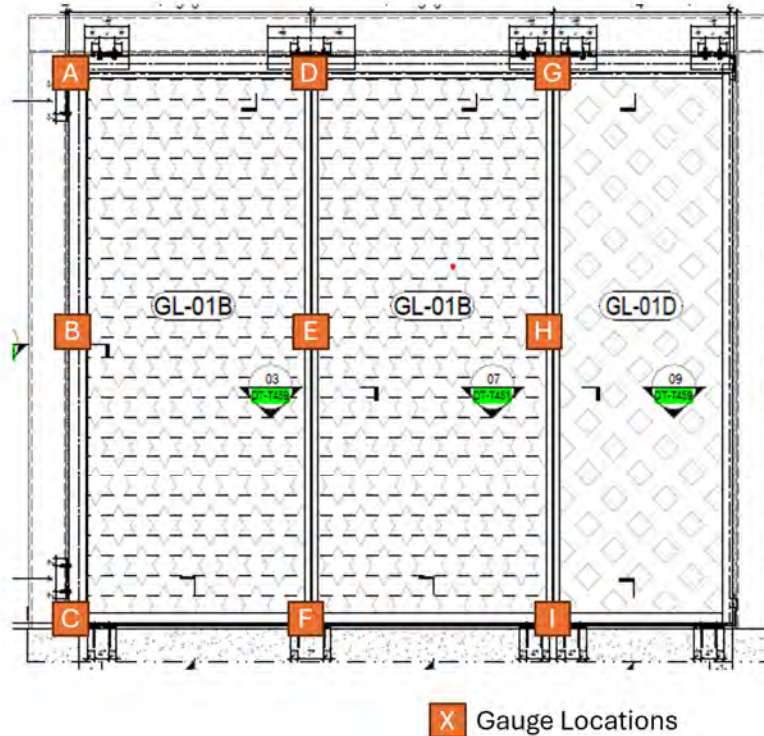
Phone: 561-508-2830

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



TAS 203 (Cyclic Load)

Specimen #17





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TAS 203 (Cyclic Load)

SPECIMEN #17

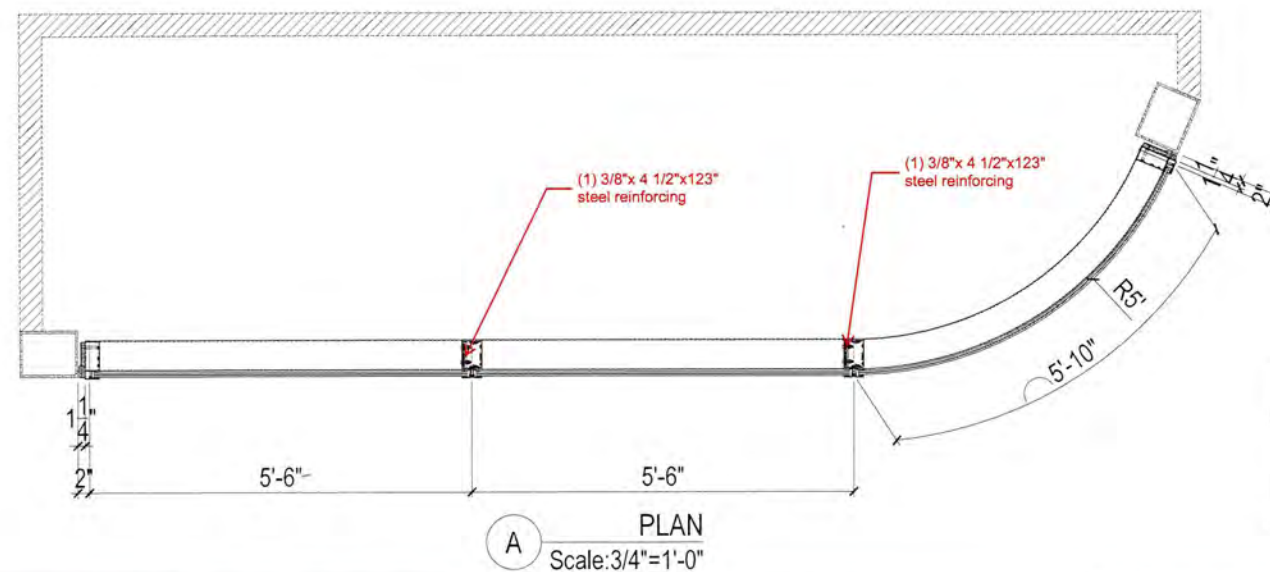
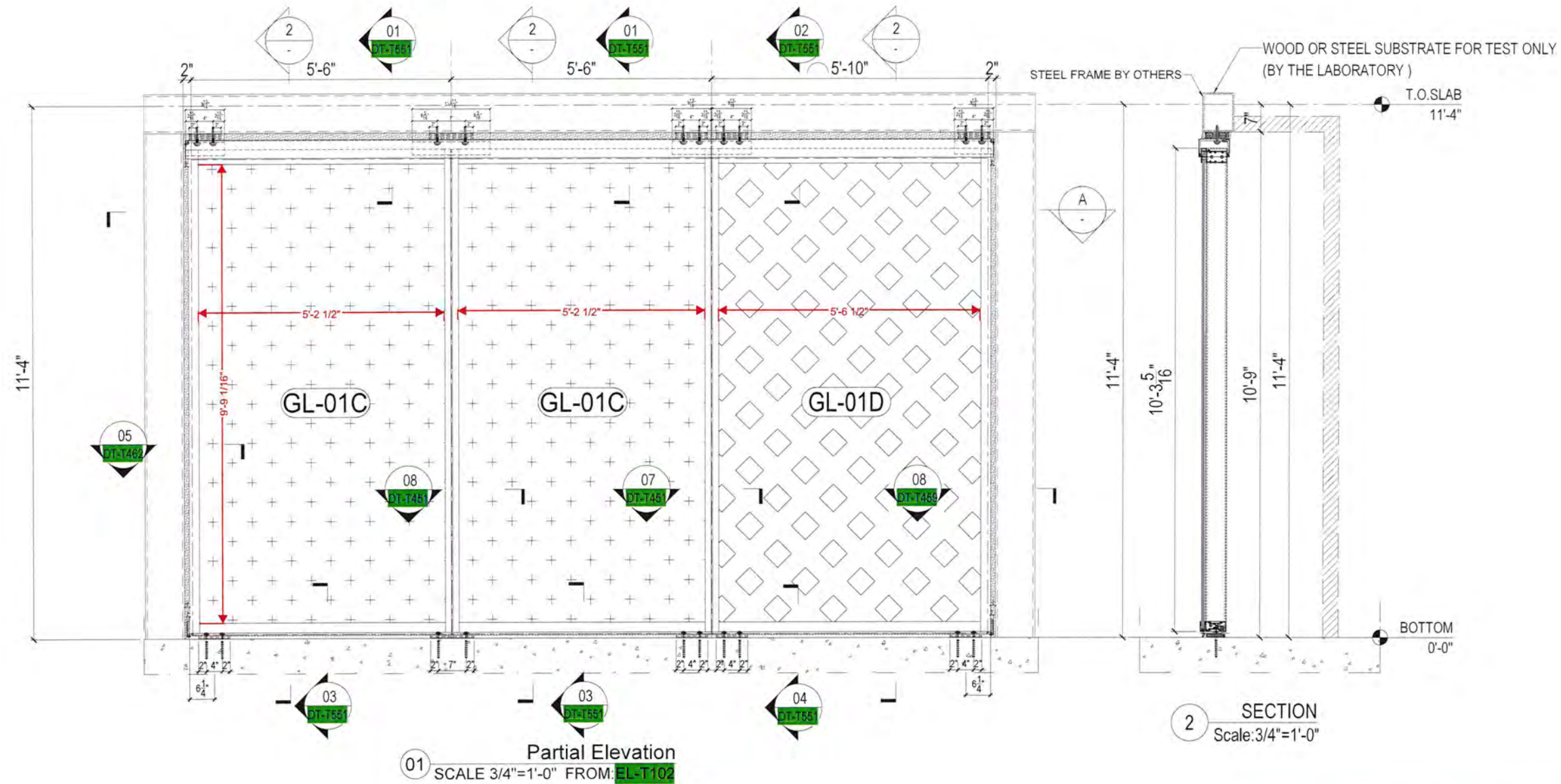
#6 TAS 203 (Cyclic Load) (T= 83° F)

CYCLIC LOAD DATA SHEET					Pd psf									
					High	Low								
					125.00	125.00								
Positive Pressure														
Cycles	Load Range	High Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		E	
					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%	62.5	4.81	12.02	0.000	0.000	0.563	0.063	0.000	0.000	0.063	0.000	0.063	0.125
300	0% to 60%	75	0	14.42	0.000	0.000	0.563	0.000	0.000	0.000	0.125	0.000	0.500	0.063
600	50% to 80%	100	12.02	19.23	0.000	0.000	0.813	0.000	0.188	0.125	0.125	0.000	0.875	0.000
100	30% to 100%	125.00	7.21	24.04	0.000	0.000	0.938	0.000	0.188	0.000	0.125	0.000	1.063	0.000
Positive Pressure														
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	F		G		H		I			
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)		
3500	20% to 50%	62.5	4.81	12.02	0.000	0.000	0.000	0.000	0.313	0.000	0.000	0.000		
300	0% to 60%	75	0.00	14.42	0.000	0.000	0.000	0.000	0.313	0.000	0.000	0.000		
600	50% to 80%	100	12.019231	19.23	0.063	0.000	0.006	0.000	0.438	0.000	0.063	0.000		
100	30% to 100%	125	7.21	24.04	0.063	0.000	0.000	0.000	0.563	0.063	0.063	0.000		
Negative Pressure														
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	A		B		C		D		E	
					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%	125	7.21	24.04	0.188	0.063	0.813	0.000	0.125	0.000	0.375	0.063	1.313	0.125
1050	50% to 80%	100	12.02	19.23	0.250	0.125	0.688	0.063	0.125	0.000	0.375	0.125	1.063	0.188
50	0% to 60%	75	0	14.42	0.125	0.000	0.500	0.000	0.000	0.000	0.250	0.125	0.750	0.063
3350	20% to 50%	62.5	4.81	12.02	0.063	0.000	0.375	0.063	0.000	0.000	0.125	0.000	0.563	0.000
Negative Pressure														
No. of cycles	Range	Load (psf)	LOW Load (H ₂ O)	HIGH Load (H ₂ O)	F		G		H		I			
					Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)	Deflection (in.)	Permanent Set (in.)		
50	30% to 100%	125	7.21	24.04	0.063	0.000	0.000	0.000	0.500	0.063	0.000	0.000		
1050	50% to 80%	100	12.02	19.23	0.125	0.000	0.000	0.000	0.438	0.063	0.000	0.000		
50	0% to 60%	75	0	14.42	0.063	0.000	0.000	0.000	0.313	0.125	0.000	0.000		
3350	20% to 50%	62.5	4.81	12.02	0.000	0.000	0.000	0.000	0.313	0.063	0.000	0.000		



Phase: TESTING DRAWINGS

VISION GLASS
GL-01C : HS8 Clear + 2.28SGP + HS8 Clear



SPECIMEN # 16 @ 3th LEVEL
LARGE MISSILE IMPACT
DESIGN WIND LOAD: ± 115 PSF

LEGEND:

	VISION GLASS GL-01C : HS8 Clear + 2.28SGP + HS8 Clear
	CURVED UNIT VISION GLASS GL-01D : FT8 Clear + 2.28 SGP + FT8 Clear

Job No.:

Key Plan/Elevation:



No.	Date	Description
Revisions:		

Contractor:
Witkoff
40 West 57th Street, Suite 1620
New York, NY 10019
212.672.4700

Architect:
Robert A.M Stern Architects LLP
One Park Avenue
New York, NY 10016
212.967.5100

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION
13475 DANIELSON ST.
POWAY, CA 92064
Tel: (760)-233-0066
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

Project: Shore Club
1901 Collins Ave.
Miami Beach, FL 33139

Title:
LARGE MISSILE IMPACT
TESTING ELEVATION

Sheet No.: PE-T316

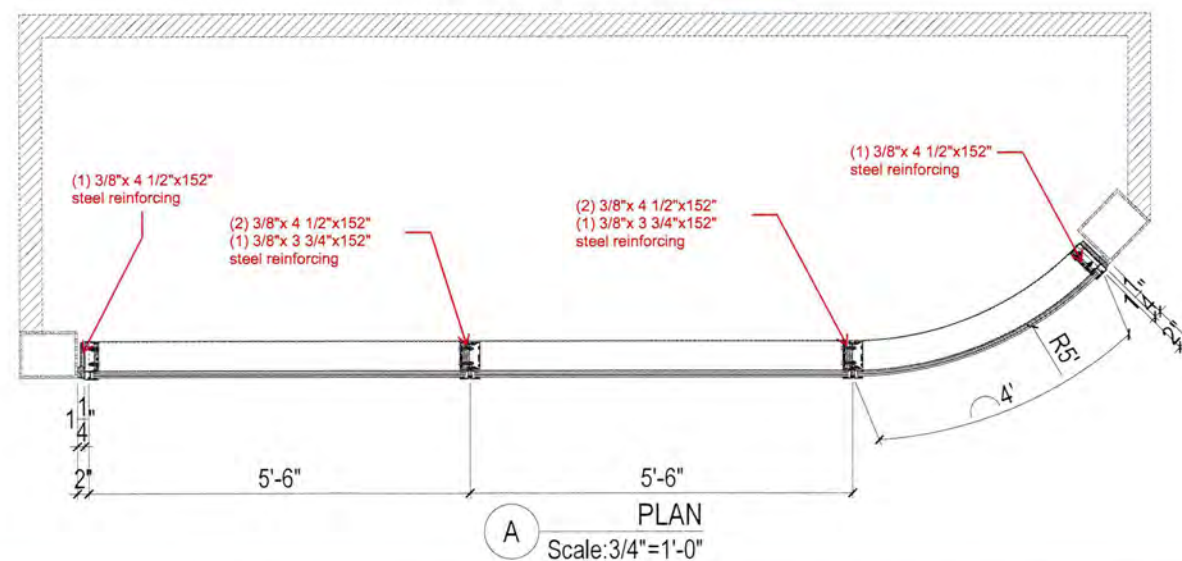
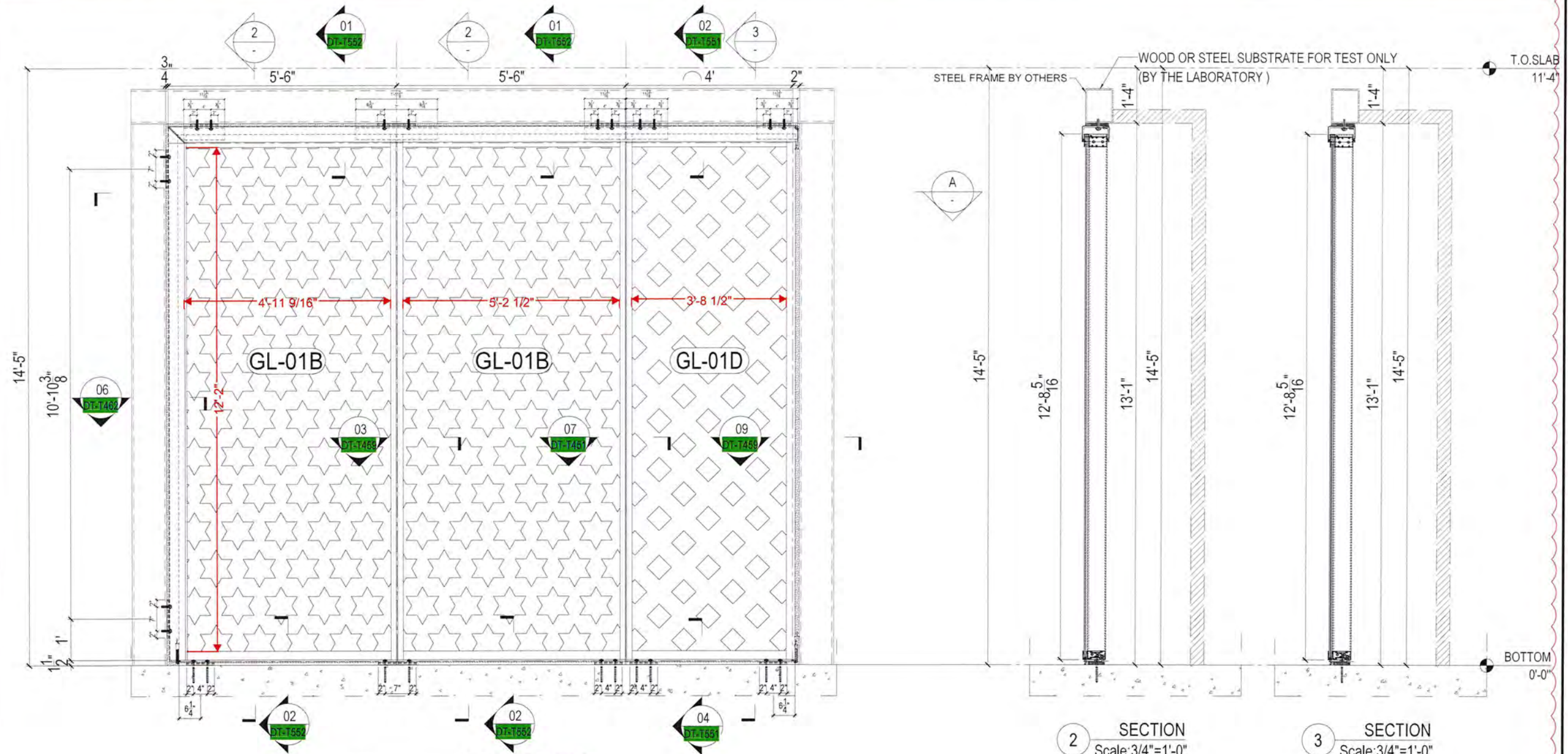
Date: Oct. 31, 2025

Revision No.: -

Scale: 3/4"=1'-0"

Size: 22"x34"

Phase: TEST DRAWINGS



SPECIMEN # 17 @ 17th LEVEL
SMALL MISSILE IMPACT
DESIGN WIND LOAD: ± 125 PSF

LEGEND:

	VISION GLASS GL-01B : FT8 Clear + 1.52 PVB + FT8 Clear
	CURVED UNIT VISION GLASS GL-01D : FT8 Clear + 2.28 SGP + FT8 Clear

Job No.:

Key Plan/Elevation:



No.	Date	Description
Revisions:		

Contractor:

Witkoff
40 West 57th Street, Suite 1620
New York, NY 10019
212.672.4700

Architect:

Robert A.M Stern Architects LLP
One Park Avenue
New York, NY 10016
212.967.5100

Facade Consultant:

Issued By:



ELICC AMERICAS CORPORATION
13475 DANIELSON ST.
POWAY, CA 92064
Tel: (760)-233-0066
Fax: (760)-233-0065

Approved By:

Checked By:

Design Team:

Project: Shore Club
1901 Collins Ave.
Miami Beach, FL 33139

Title:

SMALL MISSILE IMPACT
TESTING ELEVATION

Sheet No.: PE-T317

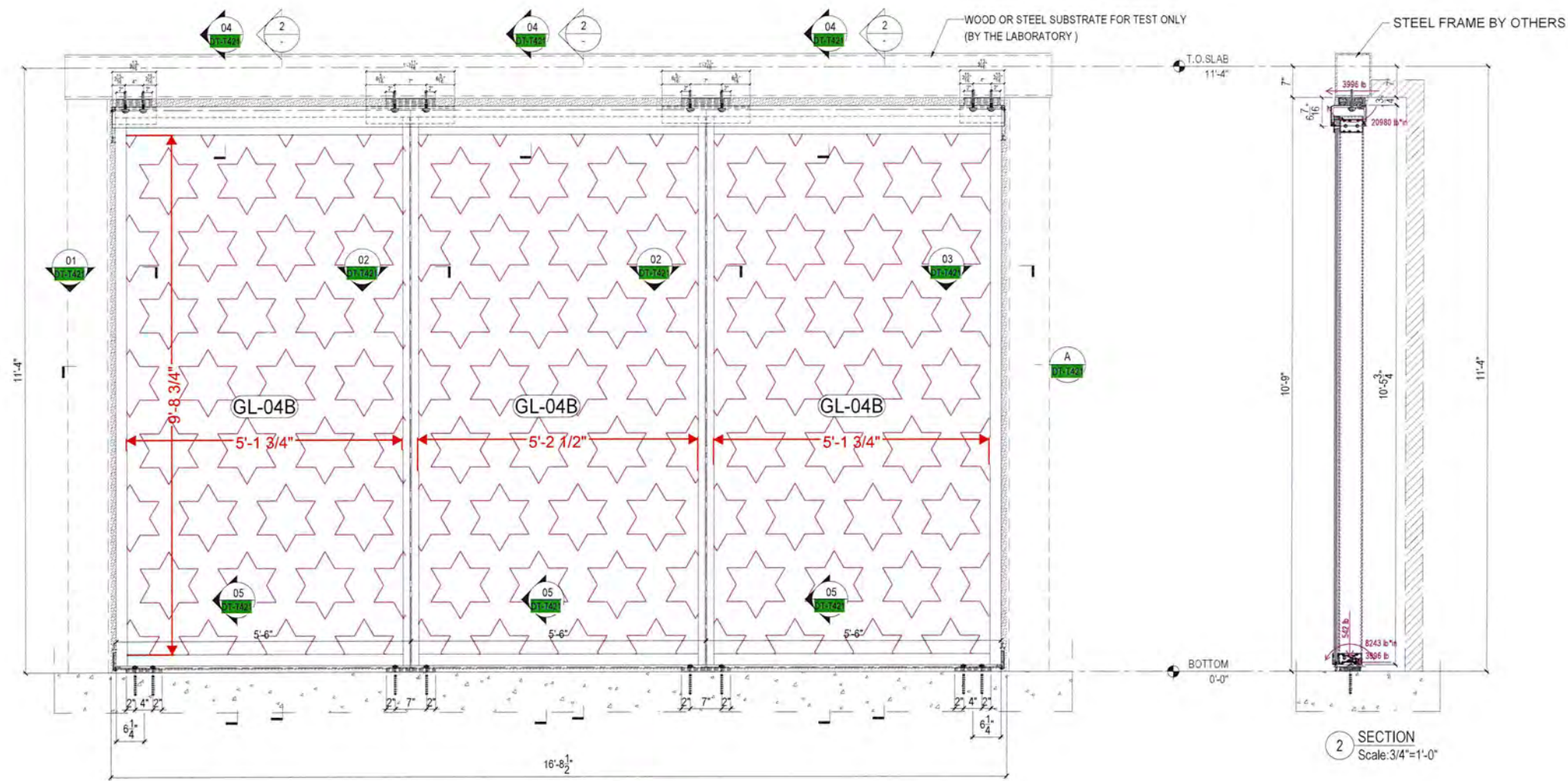
Date: Oct. 31, 2025

Revision No.: -

Scale: 3/4"=1'-0"

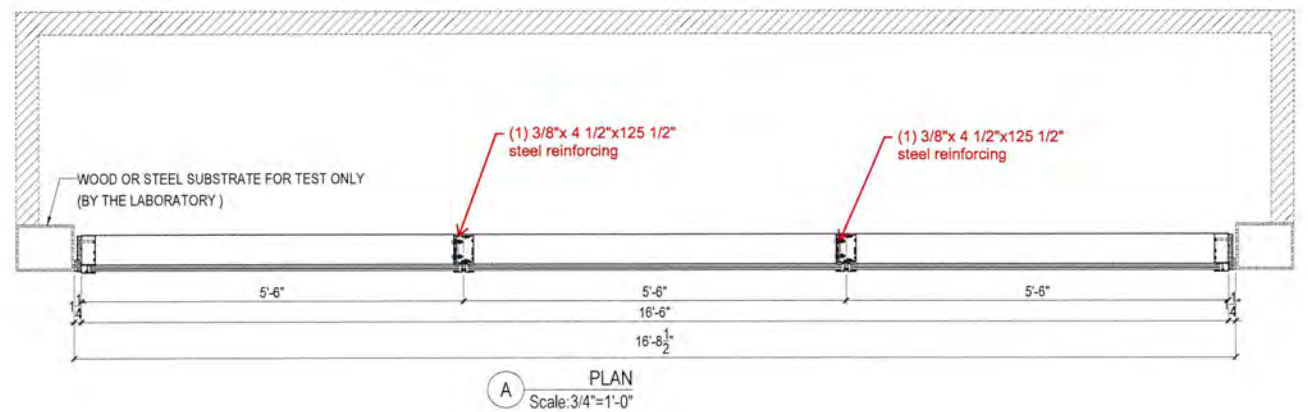
Size: 22"x34"

Phase: TEST DRAWINGS

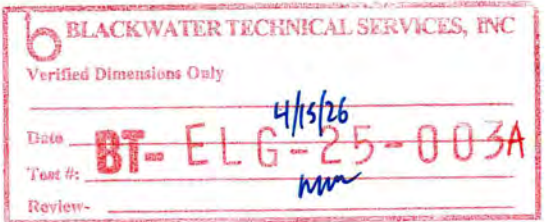


01 Partial Elevation
Scale: 3/4"=1'-0" FROM: 01-11-15

2 SECTION
Scale: 3/4"=1'-0"



A PLAN
Scale: 3/4"=1'-0"



SPECIMEN # 18 @ 14th LEVEL
SMALL MISSILE IMPACT
DESIGN WIND LOAD: ±130 PSF

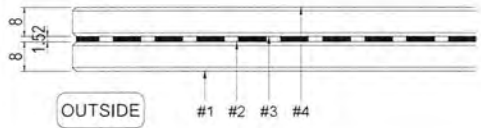
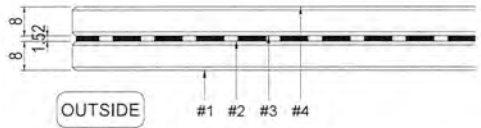
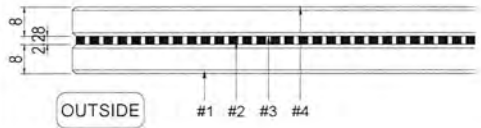
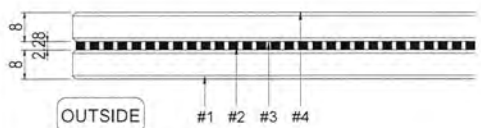
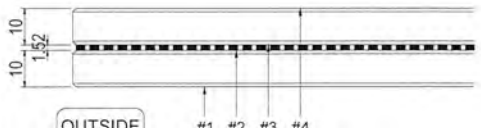
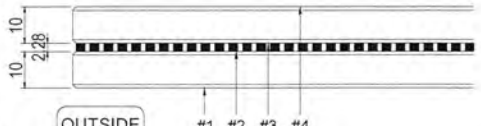
LEGEND:
VISION GLASS
GL-04B: FT8 Clear +1.52 PVB (STC41) + FT8 Clear

Job No.:
Key Plan/Elevation:

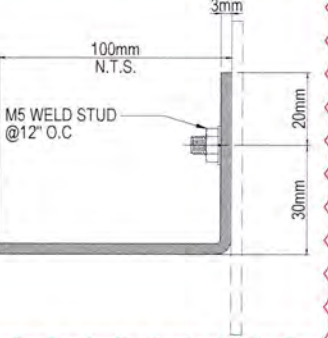
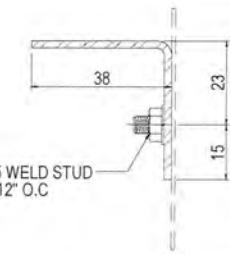
No. Date Description
Revisions:
Contractor:
Witkoff
40 West 57th Street, Suite 1620
New York, NY 10019
212.672.4700
Architect:
Robert A.M Stern Architects LLP
One Park Avenue
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Facade Consultant:
Issued By:

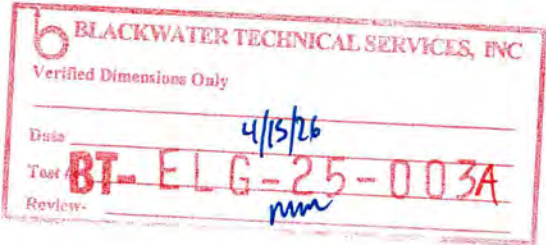
ELICC AMERICAS CORPORATION
13475 DANIELSON ST.
POWAY, CA 92064
Tel: (760)-233-0066
Fax: (760)-233-0065
Approved By:
Checked By:
Design Team:
Project: Shore Club
1901 Collins Ave.
Miami Beach, FL 33139
Title:
SMALL MISSILE IMPACT
TESTING ELEVATION
Sheet No.: PE-T318
Date: Nov. 13, 2025 Revision No.: -
Scale: 3/4"=1'-0" Size: 22"x34"
Phase: TEST DRAWINGS

1.MATERIAL LIST OF GLASS (REFER TO THE APPROVED SAMPLE)

LEGEND NUMBER	MATERIAL DESCRIBE	SECTION
GL-01	GL-01 VISION GLASS : HS8 Clear + 1.52 PVB + HS8 Clear	
GL-01A	GL-01A VISION GLASS : FT8 Clear + 1.52 SGP + FT8 Clear	
GL-01B	GL-01B VISION GLASS : FT8 Clear + 1.52 PVB + FT8 Clear	
GL-01C	GL-01C VISION GLASS : HS8 Clear + 2.28 SGP + HS8 Clear	
GL-01D	GL-01D VISION GLASS : FT8 Clear + 2.28 SGP + FT8 Clear	
GL-03	GL-03 RAILING GLASS : FT10 Clear + 1.52 SGP+ FT10 Clear WITH POLISHED VERTICAL EDGES	
GL-03A	GL-03A RAILING GLASS : FT10 Clear + 2.28 SGP+ FT10 Clear WITH POLISHED VERTICAL EDGES	

2.MATERIAL LIST OF ALUM. PANEL

LEGEND NUMBER	MATERIAL DESCRIPTION	SECTION
AP-01	3mm THICK ALUMINUM PANEL ALLOY: 3003-H14 FINISH: NON-CHROMATE	
AP-01a	3mm THICK ALUM. STIFFENER FINISH: NON-CHROMATE	
SP-01	1mm THICK STEEL SHEET FINISH: COMPLYING WITH ASTM A 653, G90(Z275), ELECTRO-GALVANIZED ZINC COATING.	
SP-01a	2mm THICK STEEL PLATE STIFFENER FINISH: COMPLYING WITH ASTM A 653, G90(Z275), ELECTRO-GALVANIZED ZINC COATING.	



Job No.:

Key Plan/Elevation:



1	Apr. 9, 2025	Issued for review
No.	Date	Description
Revisions:		

Contractor:
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Approved By:

Checked By:

Design Team:

Project: Shore Club
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Miami Beach, FL 33139

Title:
MATERIAL LIST
(GLASS & METAL SCHEDULE)

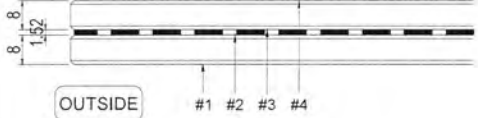
Sheet No.: MA-T101

Date: Apr. 9, 2025 Revision No.: 1

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

Phase: Testing Drawing

1.MATERIAL LIST OF GLASS (REFER TO THE APPROVED SAMPLE)

LEGEND NUMBER	MATERIAL DESCRIBE	SECTION
GL-04B	GL-04B VISION GLASS : FT8 Clear +1.52 PVB (STC41) + FT8 Clear	



No.	Date	Description
-----	------	-------------

Revisions:

Contractor:
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Checked By:

Design Team:

Project: Shore Club
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Miami Beach, FL 33139

Title:
MATERIAL LIST
GLASS

Sheet No.: MA-T151

Date: Nov. 13,2025 Revision No.: -

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

Phase: Testing Drawing



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

TAG	DIAGRAM	SCALE	DIE NO.	MATERIAL/COLOR/DUROMETER
GA011- NEW DIE		1:1	GA011- NEW DIE	SILICONE (BLACK)A65*±5°
GA02106		1:1	GA02106	SILICONE (BLACK)A65*±5°
GA03101		1:1	GA03101	SILICONE (BLACK)A65*±5°
GA04102		1:1	GA04102	SILICONE (BLACK)A65*±5°
GA04201		1:1	GA04201	RIGID BLACK PVC D80±5°
GA05201A		1:1	GA05201A	EPDM FOAM (BLACK) A30±5°
GA05101		1:1	GA05101	SILICONE (BLACK)A65*±5°
GA05102		1:1	GA05102	SILICONE (BLACK)A65*±5°
GA05103		1:1	GA05103	SILICONE (BLACK)A65*±5°
GA05104		1:1	GA05104	SILICONE (BLACK)A65*±5°
GA05162		1:1	GA05162	SILICONE (BLACK)A65*±5°
GA05167		1:1	GA05167	TPV (BLACK)A65*±5°
GA05168		1:1	GA05168	SILICONE (BLACK)A65*±5°
GA05181		1:1	GA05181	SILICONE (BLACK)A65*±5°
GA05206		1:1	GA05206	EPDM FOAM (BLACK) A70±5°
GA06113		1:1	GA06113	SILICONE (TRANSLUCENT) A65*±5°
GA07149		1:2	GA07149	SILICONE (BLACK)A65*±5°
GA09123		1:1	GA09123	SILICONE (BLACK)A80*±5°
GA09127		1:1	GA09127	SILICONE (BLACK)A65*±5°
GA13101		1:1	GA13101	PA66+GF25 D80*±5°
GA12108		1:1	GA12108	PA66+25%GF D80*±5°
LTL10X		-	LTL10X	HIGH STRENGTH ENGINEERING GRADE POLYMER

BLACK WATER TECHNICAL SERVICES, INC
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4/1/2026
BT-ELG-25-003A
Test #:

TAG	DIAGRAM	SCALE	DIE NO.	MATERIAL/COLOR/DUROMETER
GA01139		1:1	GA01139	SILICONE (BLACK)A65*±5°
GA01140		1:1	GA01140	SILICONE (BLACK)A65*±5°
GA01142		1:1	GA01142	SILICONE (BLACK)A65*±5°
GA01144		1:1	GA01144	SILICONE (BLACK)A65*±5°
GA01241		1:1	GA01241	SILICONE (BLACK)A65*±5°
GA01148		1:1	GA01148	SILICONE (BLACK)A65*±5°
GA01150		1:1	GA01150	SILICONE (BLACK)A65*±5°
GA01240		1:1	GA01240	SILICONE (BLACK)A65*±5°
GA01272		1:1	GA01272	SILICONE (BLACK)A65*±5°
G01		1:1	15×2	SILICONE (BLACK)A85*±5°
G02		1:1	15×3	SILICONE (BLACK)A85*±5°
G03		1:1	20×4	SILICONE (BLACK)A85*±5°
G04		1:1	20×5	SILICONE (BLACK)A85*±5°
G05		1:1	20×6	SILICONE (BLACK)A85*±5°
G06		1:1	20×8	SILICONE (BLACK)A85*±5°
G07		1:1	25×8	SILICONE (BLACK)A85*±5°
G08		1:1	25×10	SILICONE (BLACK)A85*±5°
G09		1:1	30×10	SILICONE (BLACK)A85*±5°
G10		1:1	-	POLYURETHANE FOAM (BLOCK): A7±2°

Job No.:

Key Plan/Elevation:



1 Apr. 9, 2025 Issued for review

No. Date Description

Revisions:

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Project: Shore Club
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Miami Beach, FL 33139

Title:

MATERIAL LIST
(GASKET SCHEDULE)

Sheet No.: MA-T102

Date: Apr. 9, 2025

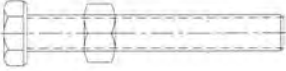
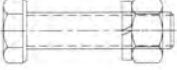
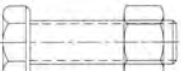
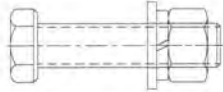
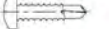
Revision No.: 1

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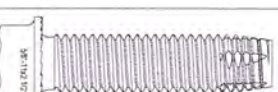
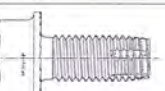
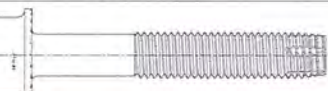
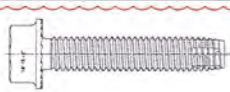
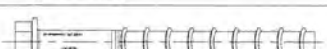
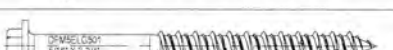
Size: 22"x34"

Phase: Testing Drawing

4.MATERIAL LIST OF FASTENERS

TAG	DIAGRAM	DESCRIPTION	GRADE	MATERIAL/FINISH
F1450		M10X70mm H.H. BOLT (FULL THREAD) W/ NUT	S.S. 316	STAINLESS STEEL
F1415		M6X30mm H.H. BOLT (FULL THREAD) W/ SPRING WASHER AND NUT	S.S. 316	STAINLESS STEEL
F1444		M10X40mm H.H. BOLT (FULL THREAD) W/ SPRING WASHER AND NUT	S.S. 316	STAINLESS STEEL
F1446		M10X50mm H.H. BOLT (FULL THREAD) W/ SPRING WASHER AND NUT	S.S. 316	STAINLESS STEEL
F1448		M10X60mm H.H. BOLT (FULL THREAD) W/ SPRING WASHER AND NUT	S.S. 316	STAINLESS STEEL
F1457		M12X40mm H.H. BOLT (FULL THREAD) W/ 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 H.W.H. S.T. SCREW	S.S. 316	STAINLESS STEEL
F2010		ST4.2x19mm PH. S.T. SCREW	S.S. 316	STAINLESS STEEL
F2022		ST4.8x19mm PH. S.T. SCREW	S.S. 316	STAINLESS STEEL
F2025		ST4.8x32mm PH. S.T. SCREW	S.S. 316	STAINLESS STEEL
F3007		ST4.2x13mm PH. S.D. SCREW	S.S. 316	STAINLESS STEEL
F3008		ST4.2x16mm PH. S.D. SCREW	S.S. 316	STAINLESS STEEL
F3009		ST4.2x19mm PH. S.D. SCREW	S.S. 316	STAINLESS STEEL
F3011		ST4.2x25m PH. S.D. SCREW	S.S. 316	STAINLESS STEEL
F3019		ST4.8x16mm PH. S.D. SCREW	S.S. 316	STAINLESS STEEL
F3020		ST4.8x19mm PH. S.D. SCREW	S.S. 316	STAINLESS STEEL
F3022		ST4.8x25m PH. S.D. SCREW	S.S. 316	STAINLESS STEEL
F3208		ST4.2x16mm FH. S.D. SCREW	S.S. 316	STAINLESS STEEL
F3211		ST4.2x25mm FH. S.D. SCREW	S.S. 316	STAINLESS STEEL
F3219		ST4.8x16mm FH. S.D. SCREW	S.S. 316	STAINLESS STEEL

BLACKWATER TECHNICAL SERVICES, INC.
Verified Dimensions Only
4/19/26
BT-ELG-25-003A
Date: 4/19/26
Test: [Signature]
Review: [Signature]

TAG	DIAGRAM	DESCRIPTION	GRADE	MATERIAL/FINISH
F3220		ST4.8x19mm FH. S.D. SCREW	S.S. 316	STAINLESS STEEL
F3241		ST6.3x25mm FH. S.D. SCREW	S.S. 316	STAINLESS STEEL
F4015		M6X12mm CROSS RECESSED PAN HEAD SCREW	S.S. 316	STAINLESS STEEL
F4216		M6X16mm CROSS RECESSED COUNTERSUNK HEAD SCREW	S.S. 316	STAINLESS STEEL
F4402		M5X10mm HEXAGON LOBULAR SOCKET PAN HEAD SCREW	S.S. 316	STAINLESS STEEL
F4815		M6X16mm HEXAGON SOCKET COUNTERSUNK HEAD SCREW	S.S. 316	STAINLESS STEEL
F4816		M6X20mm HEXAGON SOCKET COUNTERSUNK HEAD SCREW	S.S. 316	STAINLESS STEEL
F4828		M8X20mm HEXAGON SOCKET COUNTERSUNK HEAD SCREW	S.S. 316	STAINLESS STEEL
F3441		ST6.3x25mm H.W.H. SD. SCREW	S.S. 316	STAINLESS STEEL
F3443		ST6.3x38mm H.W.H. SD. SCREW	S.S. 316	STAINLESS STEEL
F3445		ST6.3x50mm H.W.H. SD. SCREW	S.S. 316	STAINLESS STEEL
F3601		5/8"-11 x 2 1/2" H.W.H TAPFLEX BOLT	GRADE 5: MEETS ASTM 449 SPECIFICATIONS (120KSI STRENGTH)	MATERIAL: ALLOY STEEL FINISH: SILVER STALGARD @ GB COATING
F3602		1/2"-13 x 1 1/2" H.W.H TAPFLEX BOLT	GRADE 5: MEETS ASTM 449 SPECIFICATIONS (120KSI STRENGTH)	MATERIAL: ALLOY STEEL FINISH: SILVER STALGARD @ GB COATING
F3603		5/8"-11 x 1 1/2" H.W.H TAPFLEX BOLT	GRADE 5: MEETS ASTM 449 SPECIFICATIONS (120KSI STRENGTH)	MATERIAL: ALLOY STEEL FINISH: SILVER STALGARD @ GB COATING
F3604		5/8"-11 x 4" H.W.H TAPFLEX BOLT	GRADE 5: MEETS ASTM 449 SPECIFICATIONS (120KSI STRENGTH)	MATERIAL: ALLOY STEEL FINISH: SILVER STALGARD @ GB COATING
F3605		3/8"-16 x 2" H.W.H TAPFLEX BOLT	GRADE 5: MEETS ASTM 449 SPECIFICATIONS (120KSI STRENGTH)	MATERIAL: ALLOY STEEL FINISH: SILVER STALGARD @ GB COATING
F4007		M5X25mm CROSS RECESSED PAN HEAD SCREW	S.S. 316	STAINLESS STEEL
F4017		M6X20mm CROSS RECESSED PAN HEAD SCREW	S.S. 316	STAINLESS STEEL
F5057		M16x25 HEXAGON SOCKET HEAD FLATNENS SET BOLT	S.S. 316	STAINLESS STEEL
F02		HILTI KH-EZ 1/2"X6" CONCRETE BOLT	-	GALVANIZED ALLOY STEEL
F03		DEWALT 5/16" x 3-3/4" HWH ULTRACON SCREWS	-	MATERIAL: CARBON STEEL FINISH: STALGARD COATING
F7402		SCREW ANC KH-EZ 1/4" X 1-7/8"	-	GALVANIZED ALLOY STEEL

Job No.:

Key Plan/Elevation:



2 Sep. 4, 2025 REVISED AS COMMENTS

1 Apr. 9, 2025 Issued for review

No. Date Description

Revisions:

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Project: Shore Club
1901 Collins Ave.
Miami Beach, FL 33139

Title:

MATERIAL LIST
(FASTENER SCHEDULE)

Sheet No.: MA-T103

Date: Sep. 4, 2025

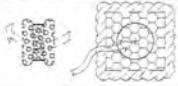
Revision No.: 2

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Size: 22"x34"

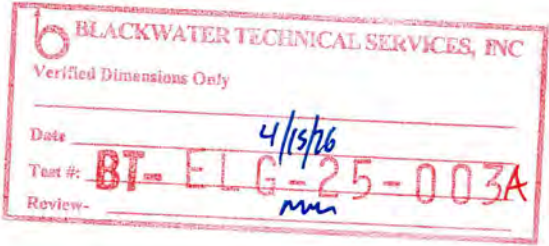
Phase: Testing Drawing

5.MISCELLANEOUS MATERIAL LIST

M01	SOFT BACKER ROD MATERIAL: BI-CELLUAR POLYETHYLENE FOAM	
M02	DOUBLE SIDE TAPE MATERIAL: CLOSED-CELL POLYVINYL CHLORIDE FOAM	
M03	OPEN CELL WEEP BAFFLE MATERIAL: OPEN CELL POLYURETHANE SPONGE	
M04	2mm THICK SILICONE SHEET	
M05	INSULATION LUG (CUP HEAD WELD PINS) MATERIAL: GALVANIZED STEEL	
M06	ALONE SIDE TAPE MATERIAL: CLOSED-CELL POLYVINYL CHLORIDE FOAM	

6.SEALANT MATERIAL LIST

S01	SILICONE WEATHERPROOFING SEALANT BRAND: DOW TYPE: DOWSIL 791 COLOR: BLACK	
S01a	SILICONE WEATHERPROOFING SEALANT BRAND: DOW TYPE: DOWSIL 791 COLOR: WHITE	
S02	STRUCTURAL SEALANT (SHOP APPLIED) BRAND: DOW TYPE: DOWSIL 983 COLOR: BLACK	



Job No.:

Key Plan/Elevation:



No. Date Description

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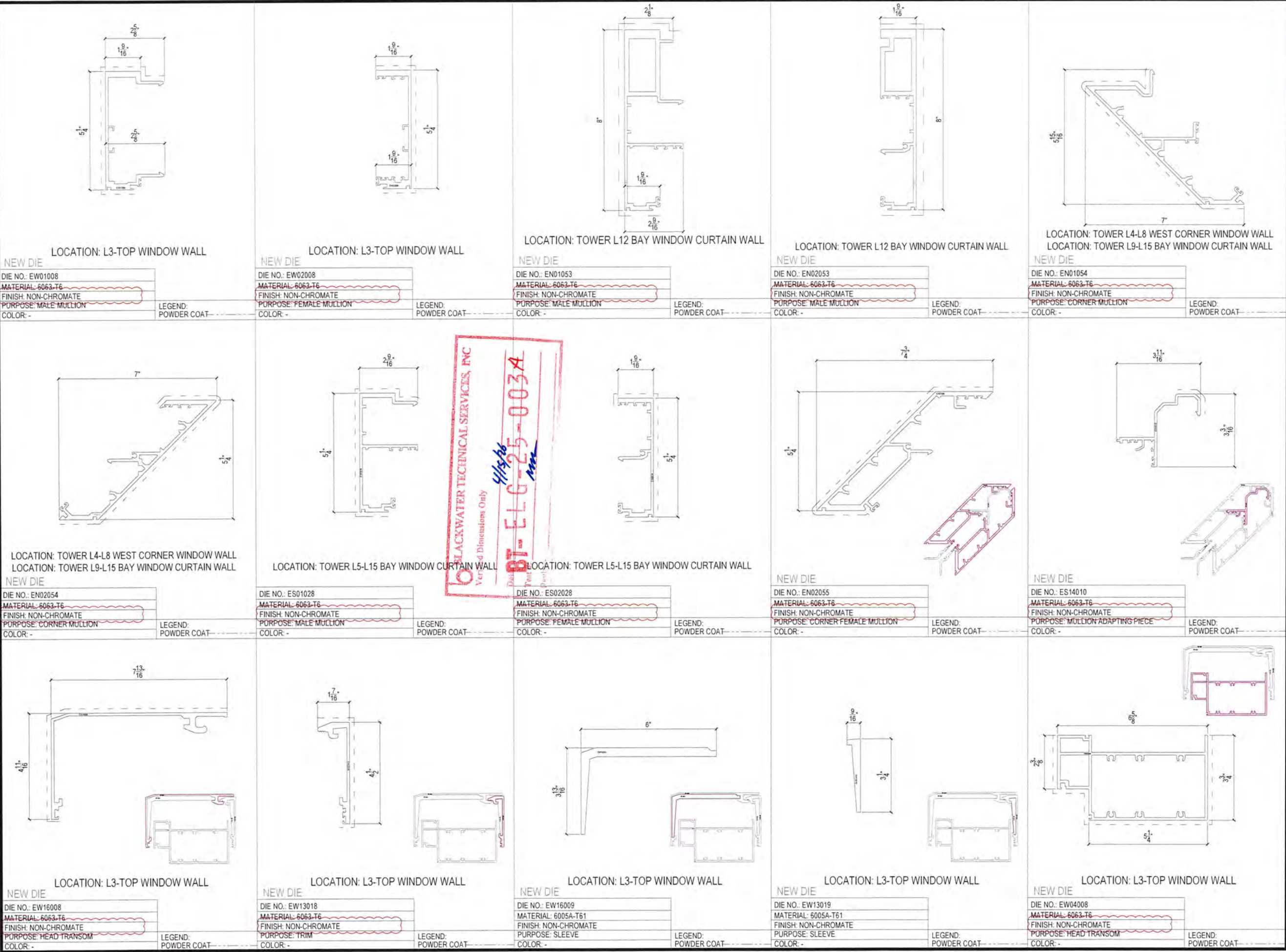
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MATERIAL LIST
(MISCELLANEOUS MATERIAL)

Sheet No.: MA-T104

Date: Apr. 30,2024 Revision No.: -

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

Phase: Testing Drawing



Job No.:
Key Plan/Elevation:


No.	Date	Description
2	Apr. 9, 2025	REVISED AS COMMENTS
1	Jul. 9, 2024	Issued for review

Revisions:

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Design Team:

Project: Shore Club
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Miami Beach, FL 33139

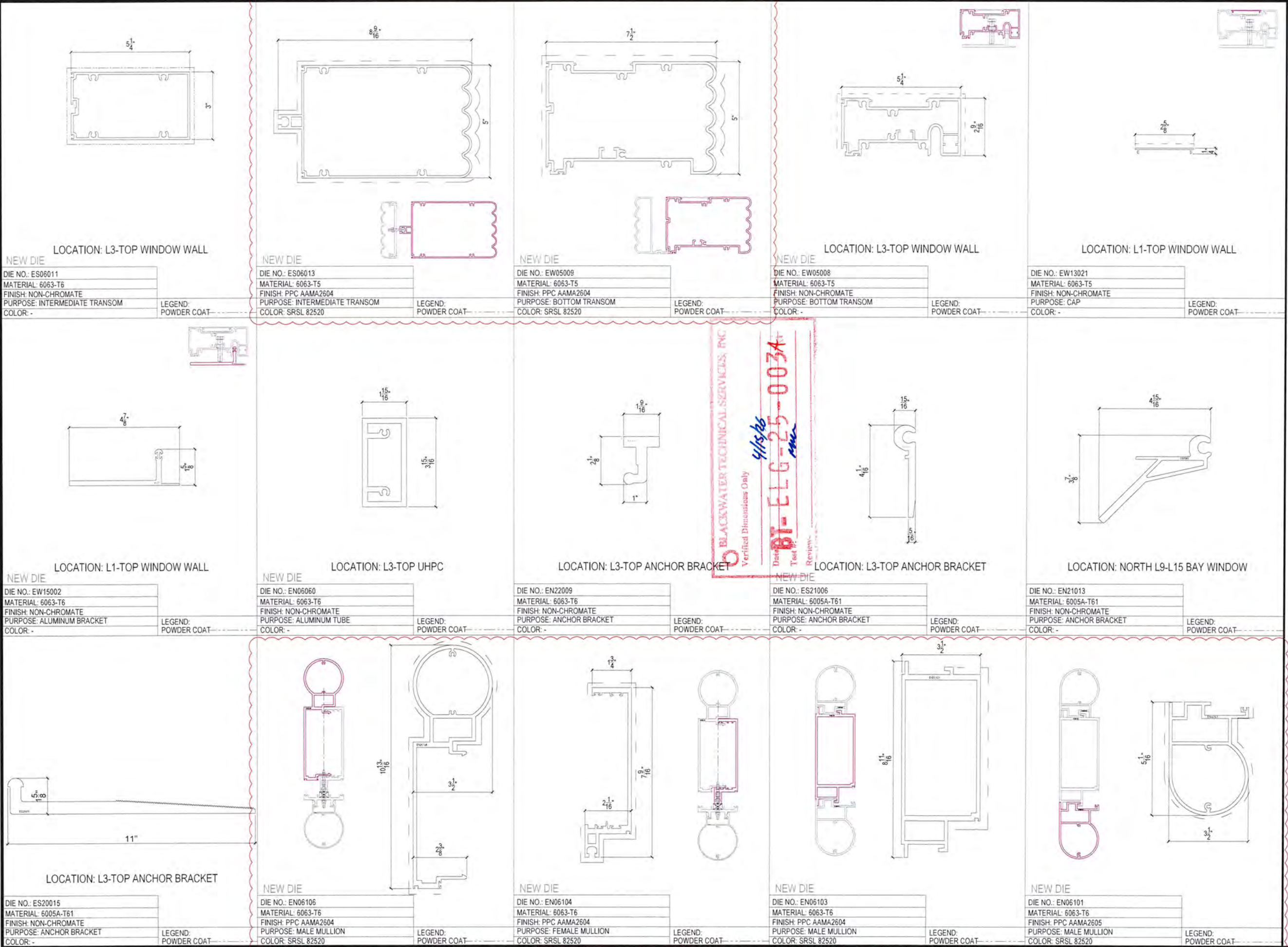
Title:
MATERIAL LIST
(ALUMINUM EXTRUSION SCHEDULE)

Sheet No.: MA-T105

Date	Revision No.
Apr. 9, 2025	2

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

Phase: Testing Drawing



Job No.:
Key Plan/Elevation:

Revisions:

No.	Date	Description
2	Apr. 9, 2025	REVISED AS COMMENTS
1	Jul. 9, 2024	Issued for review

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Approved By:

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Design Team:

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Miami Beach, FL 33139

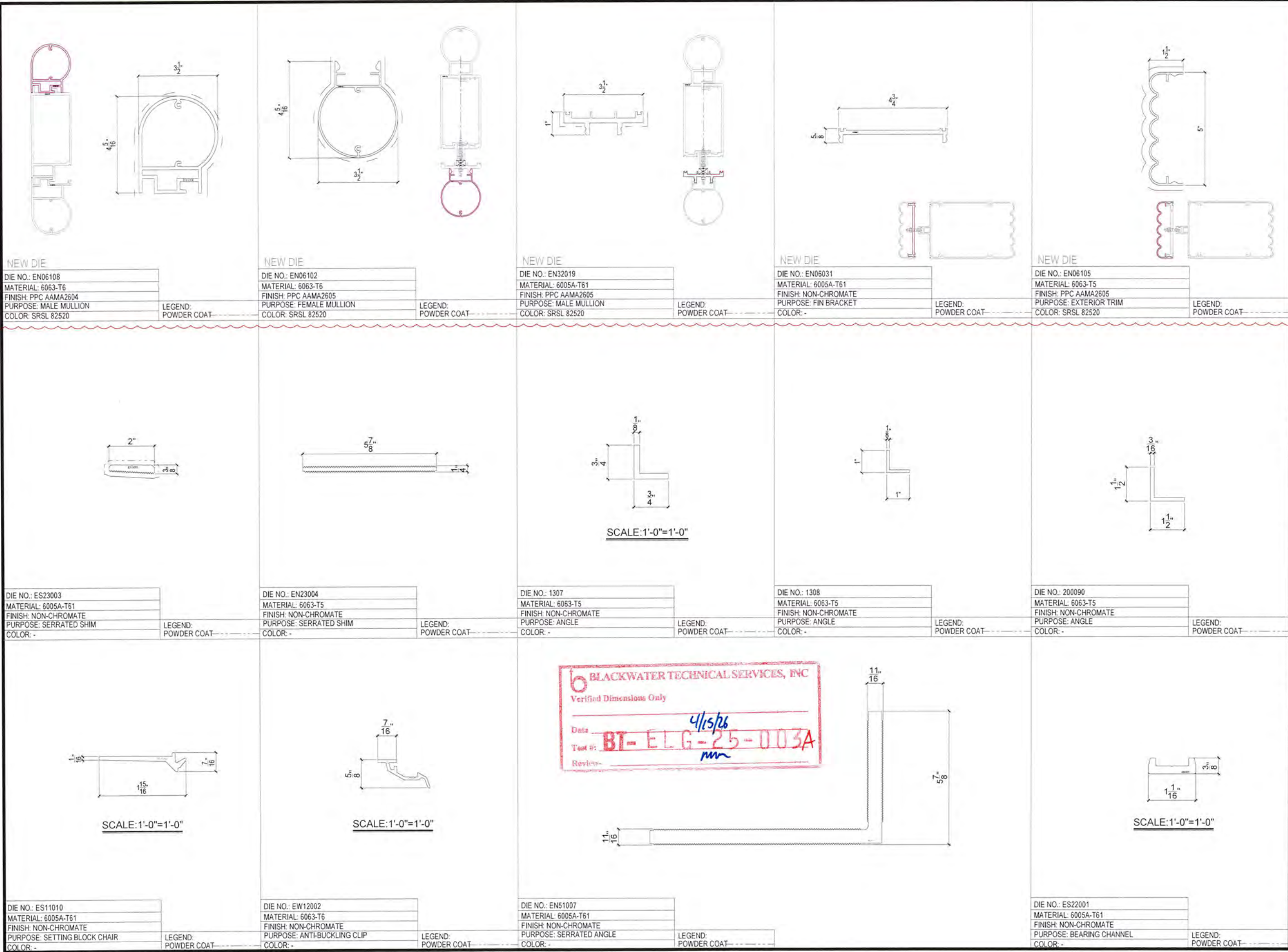
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MATERIAL LIST
(ALUMINUM EXTRUSION SCHEDULE)

Sheet No.: MA-T106

Date: Apr. 9, 2025
Revision No.: 2

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

Phase: Testing Drawing



Job No.:
Key Plan/Elevation:

No.	Date	Description
2	Apr. 9, 2025	REVISED AS COMMENTS
1	Jul. 9, 2024	Issued for review

Revisions:

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Approved By:

Checked By:

Design Team:

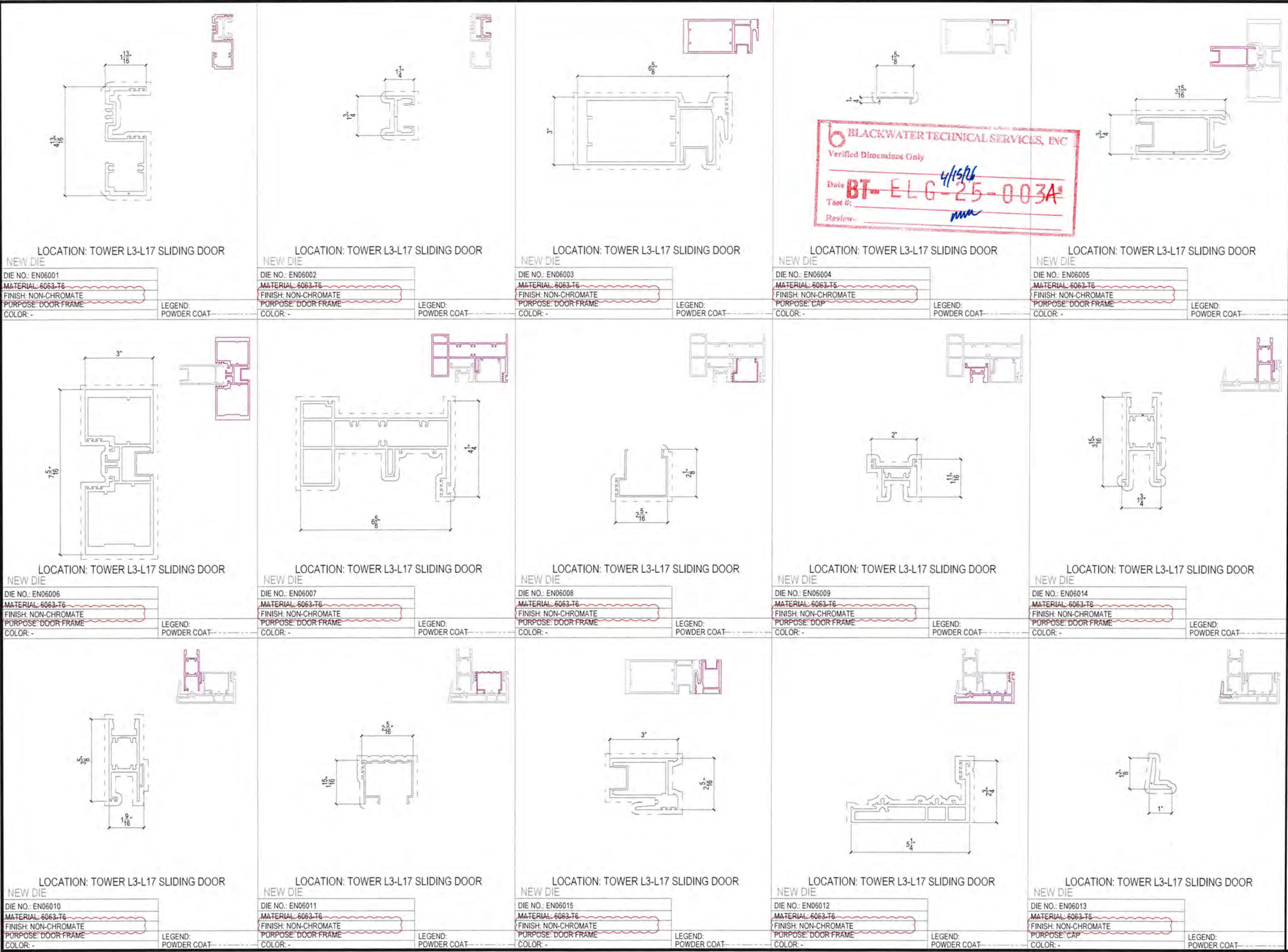
Project: Shore Club
1901 Collins Ave.
Miami Beach, FL 33139

Title:
MATERIAL LIST
(ALUMINUM EXTRUSION SCHEDULE)

Sheet No.: MA-T107

Date: Apr. 9, 2025	Revision No.: 2
Scale: 6"=1'-0"	Size: 22"x34"

Phase: Testing Drawing



Job No.:
Key Plan/Elevation:


No.	Date	Description
1	Apr. 9, 2025	Issued for review

Revisions:

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Approved By:

Checked By:

Design Team:

Project: Shore Club
1901 Collins Ave.
Miami Beach, FL 33139

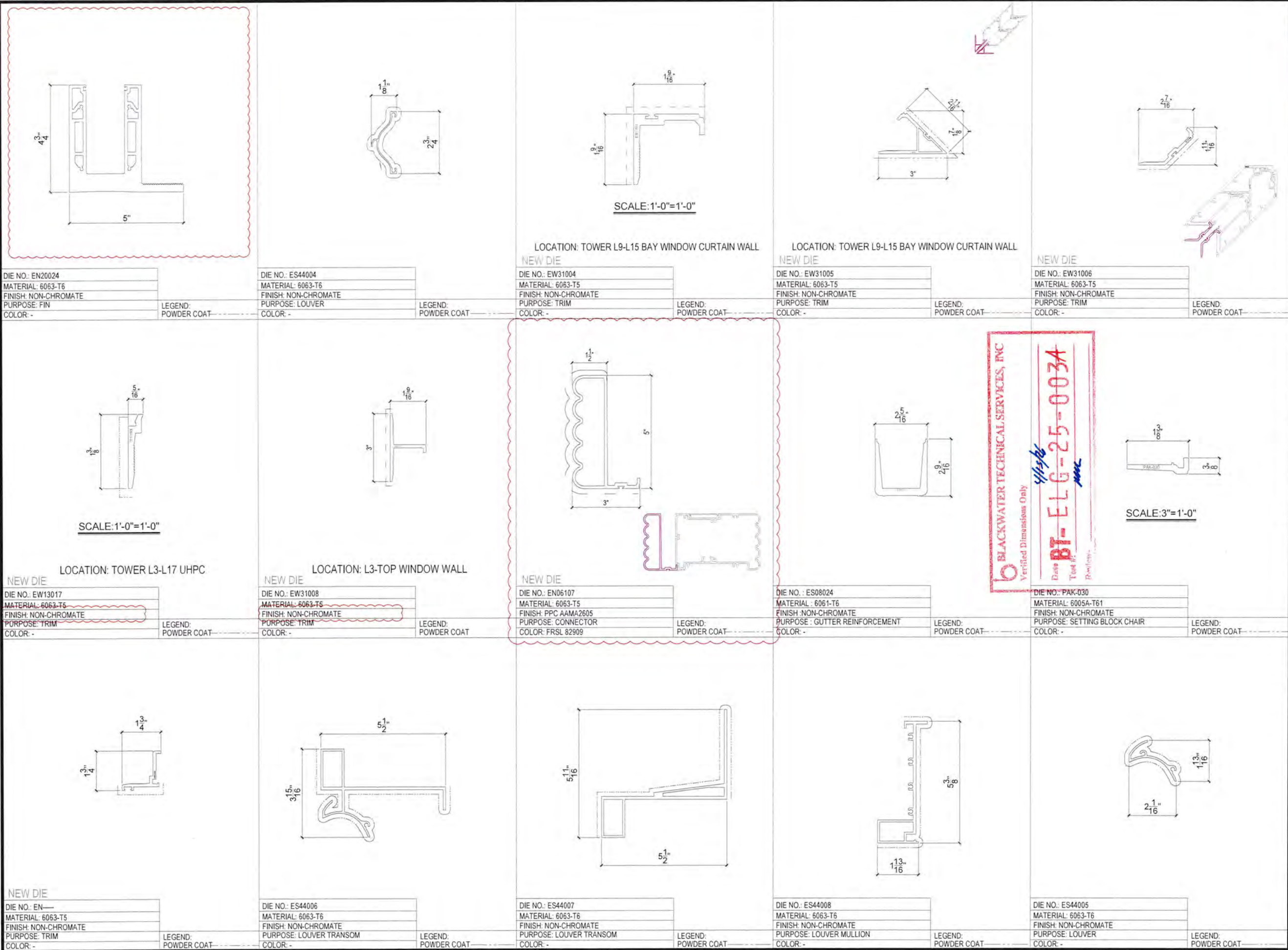
Title:
MATERIAL LIST
(ALUMINUM EXTRUSION SCHEDULE)

Sheet No.: MA-T108

Date	Revision No.
Apr. 9, 2025	1

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

Phase: Testing Drawing



Job No.:

Key Plan/Elevation:

No.	Date	Description
3	Sep. 4, 2025	REVISED AS COMMENTS
2	Apr. 9, 2025	REVISED AS COMMENTS
1	Jul. 9, 2024	Issued for review

Revisions:

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Design Team:

Project: Shore Club
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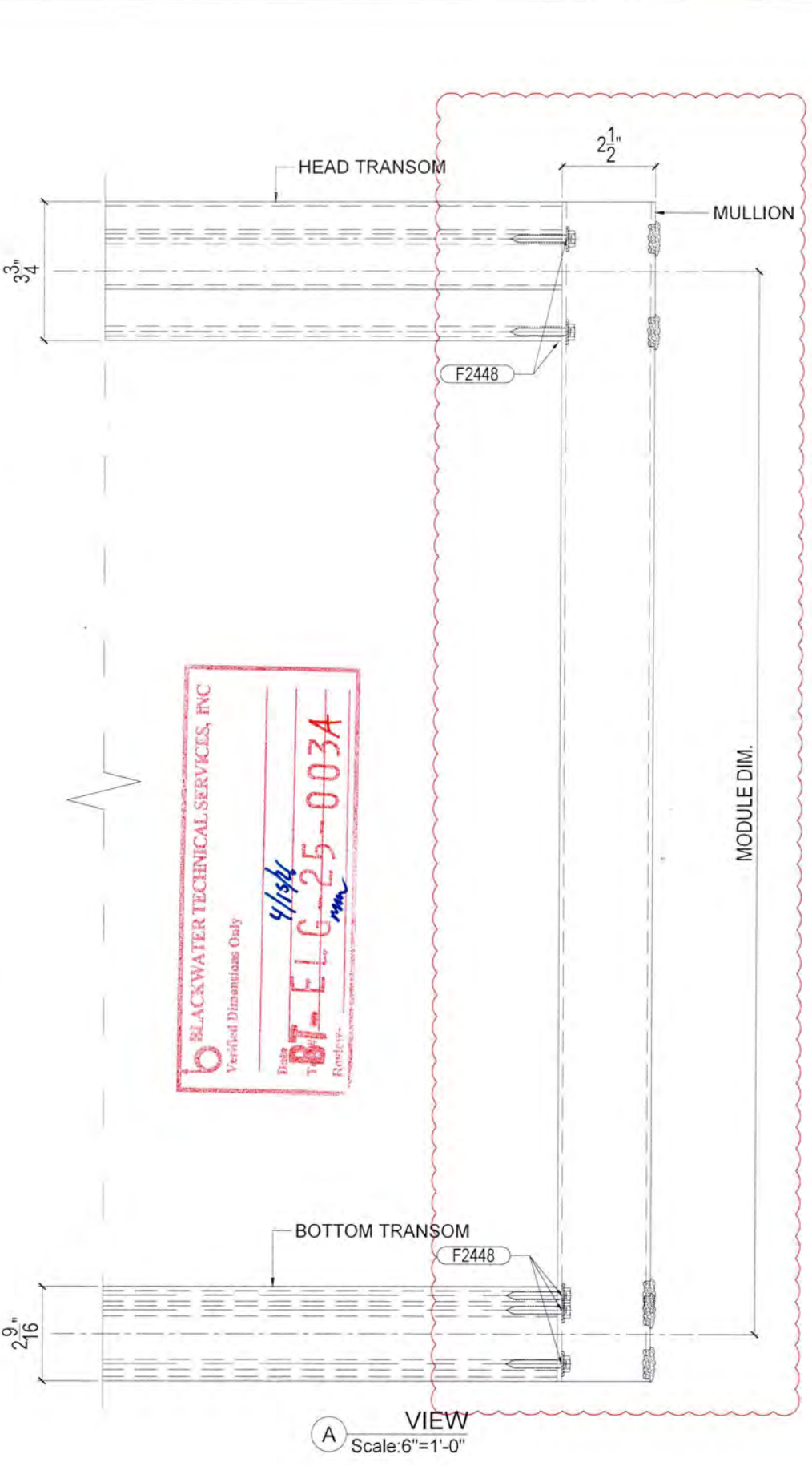
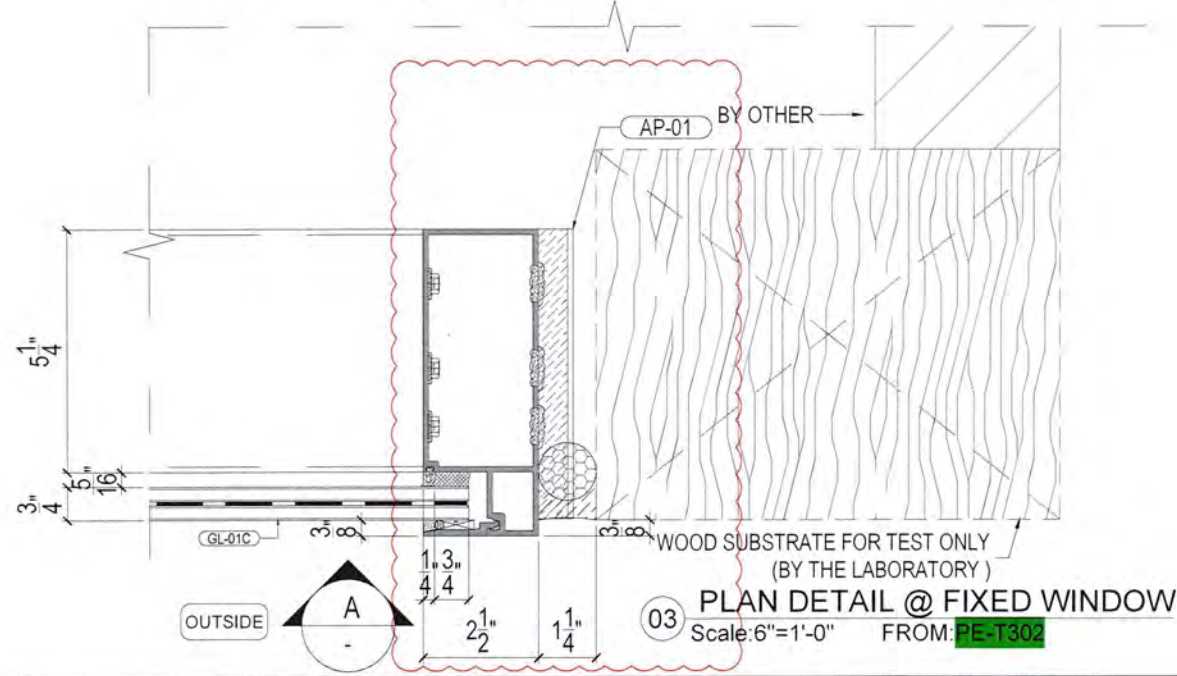
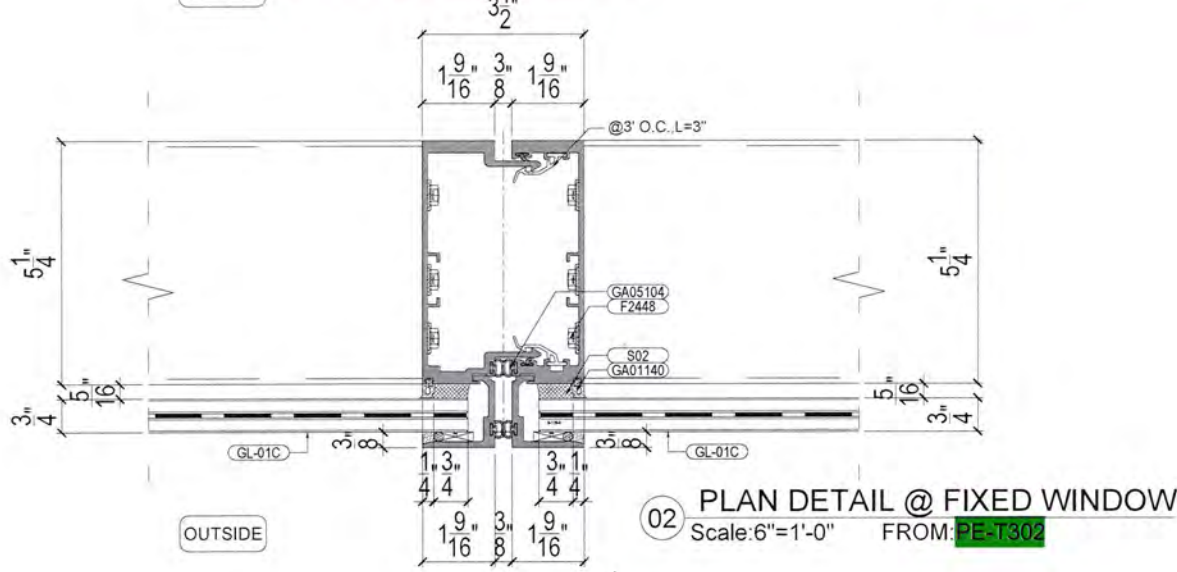
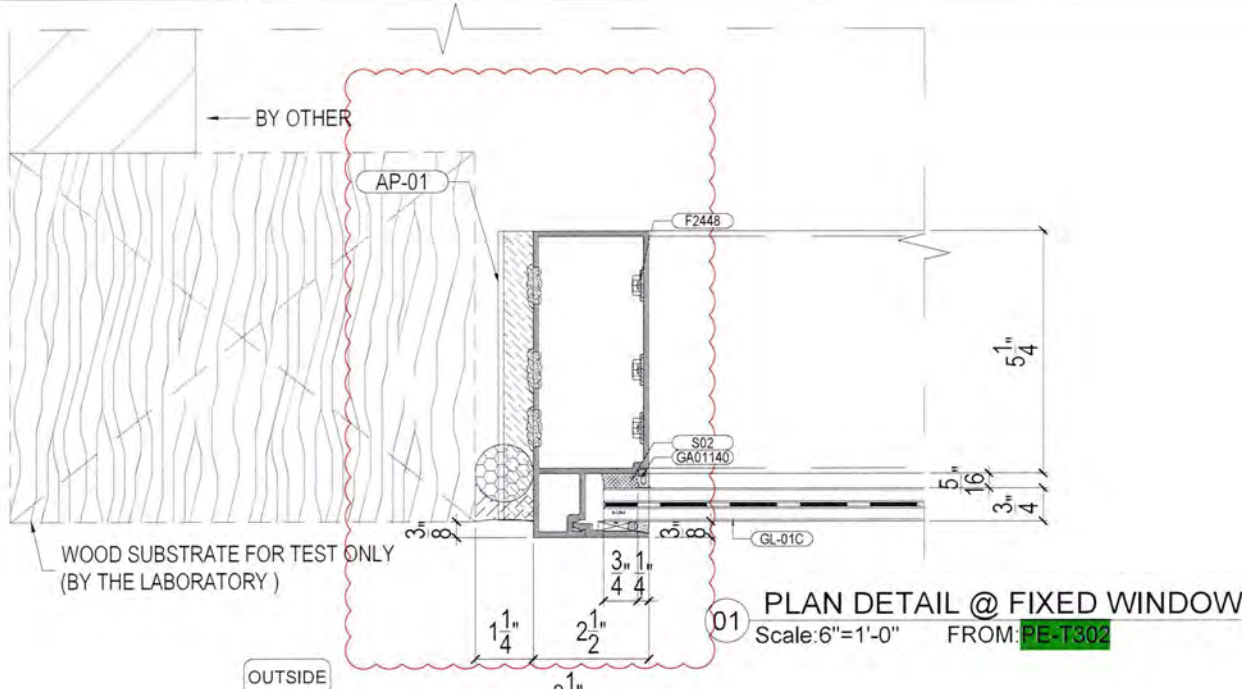
Title:
MATERIAL LIST
(ALUMINUM EXTRUSION SCHEDULE)

Sheet No.: MA-T109

Date: Sep. 4, 2025 Revision No.: 3

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

Phase: Testing Drawing



Job No.:
Key Plan/Elevation:


No.	Date	Description
1	Jul. 9, 2024	Issued for review

Revisions:

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Checked By:

Design Team:

Project: Shore Club
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Miami Beach, FL 33139

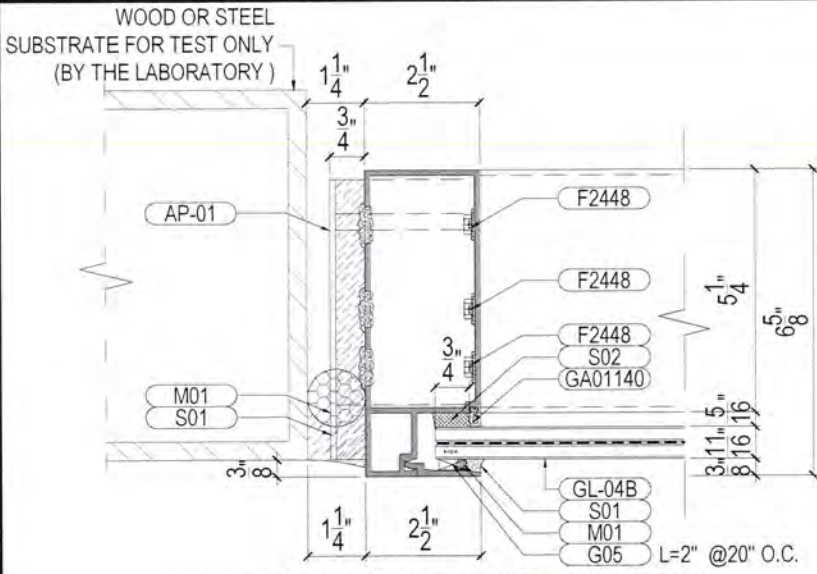
Title:
PLAN DETAIL
@ FIXED WINDOW

Sheet No.: DT-T402

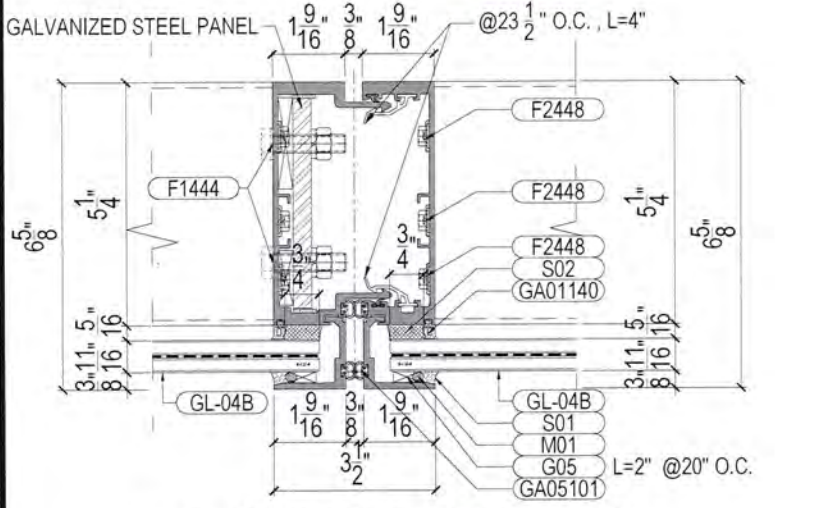
Date	Revision No.
Jul. 9, 2024	1

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

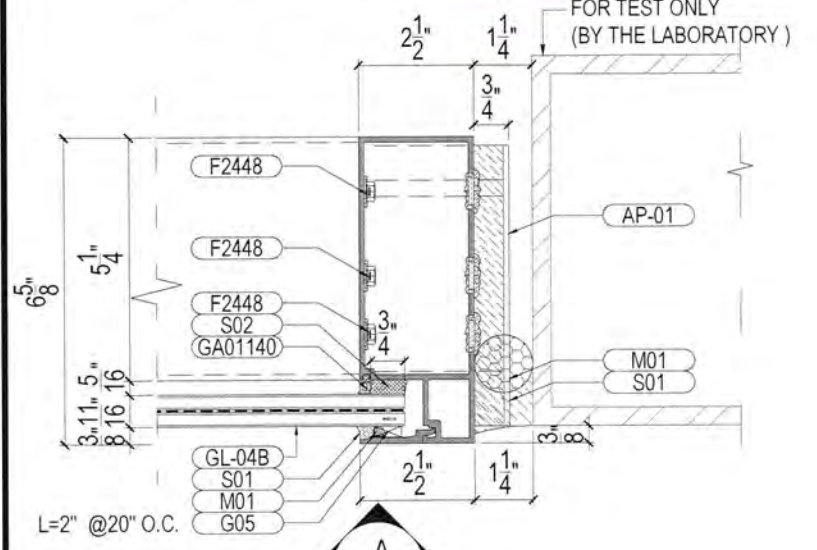
Phase: TESTING DRAWINGS



01 PLAN DETAIL @ FIXED WINDOW
Scale: 6"=1'-0" FROM: PE-T318



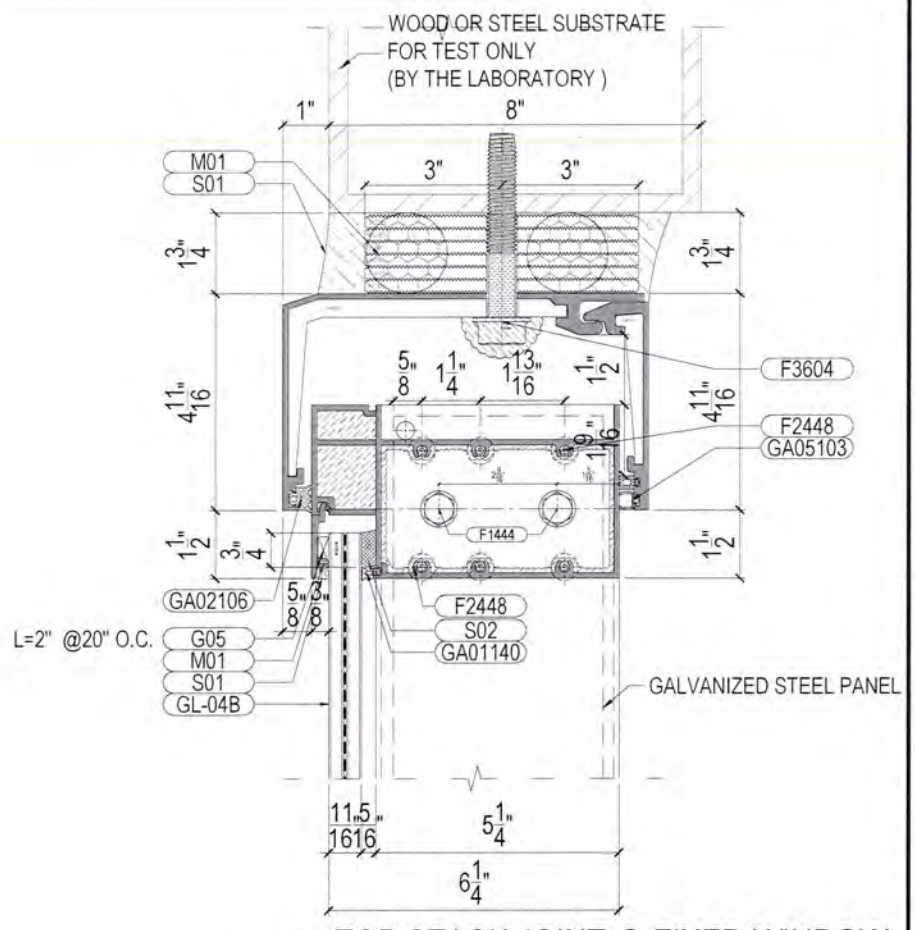
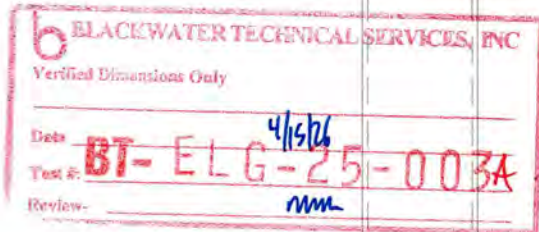
02 PLAN DETAIL @ FIXED WINDOW
Scale: 6"=1'-0" FROM: PE-T318



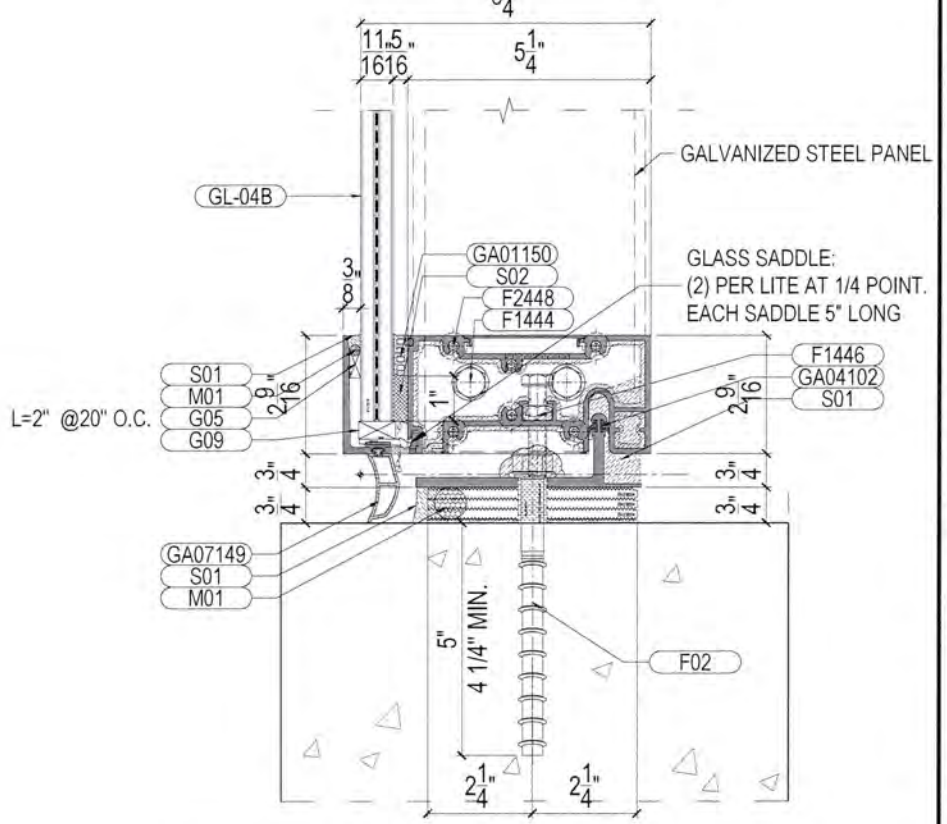
03 PLAN DETAIL @ FIXED WINDOW
Scale: 6"=1'-0" FROM: PE-T318



A VIEW
Scale: 6"=1'-0"



04 TOP STACK JOINT @ FIXED WINDOW
Scale: 6"=1'-0" FROM: PE-T351

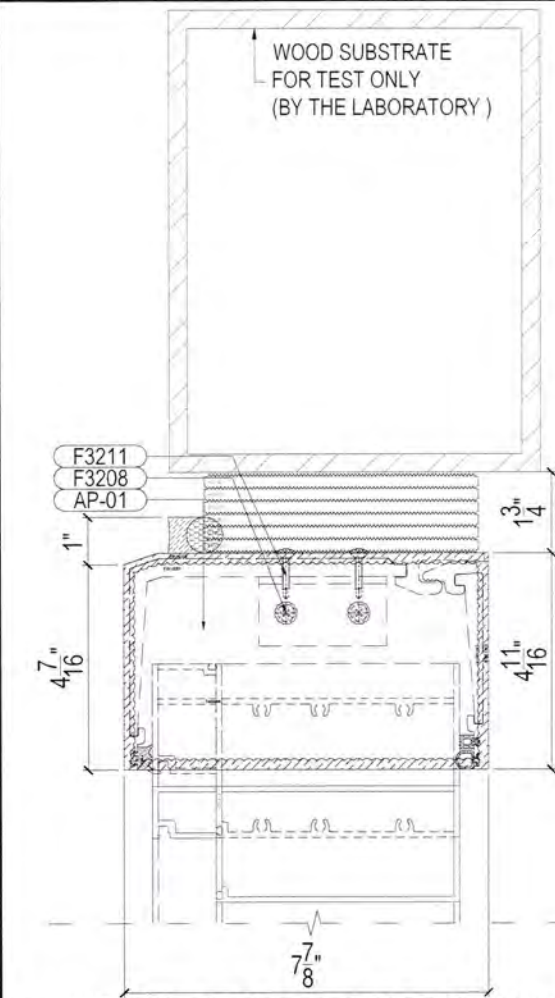


05 BOTTOM OF UHPC PANEL @ FIXED WINDOW
Scale: 6"=1'-0" FROM: PE-T318

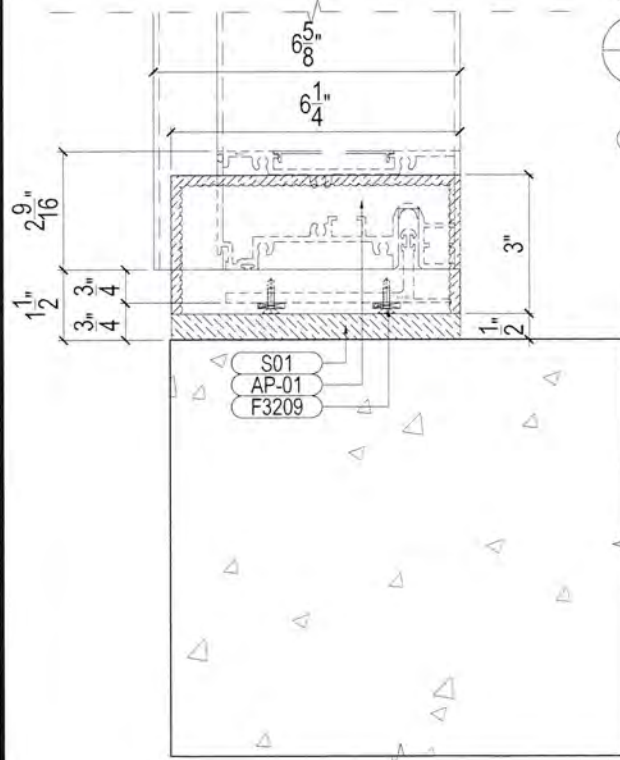
Job No.:
Key Plan/Elevation:

No. Date Description
Revisions:
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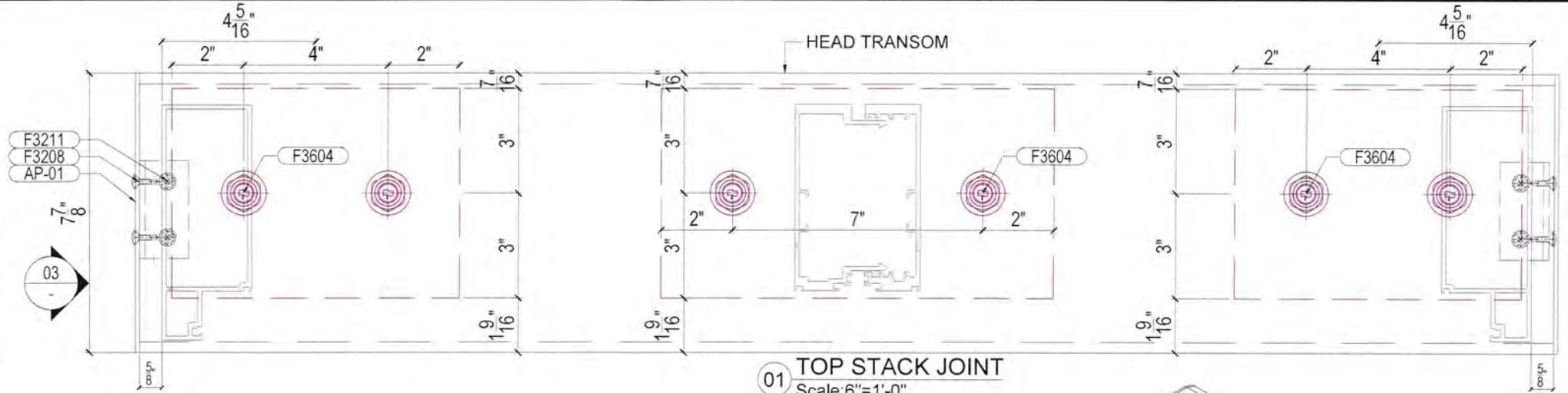
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Fax: (760)-233-0065
Approved By:
Checked By:
Design Team:
Project: Shore Club
1901 Collins Ave.
Miami Beach, FL 33139
Title:
PLAN DETAIL &
VERTICAL SECTION DETAIL
@ FIXED WINDOW
Sheet No.: DT-T421
Date: Nov. 13, 2025 Revision No.: -
Scale: 6"=1'-0" Size: 22"x34"
Phase: TESTING DRAWINGS



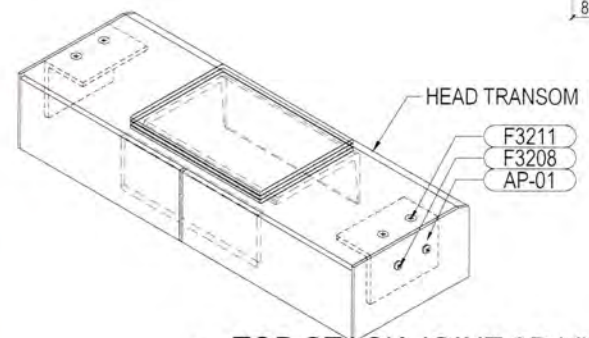
03 VERTICAL SECTION DETAIL / ALUM. PANEL
Scale: 6"=1'-0"



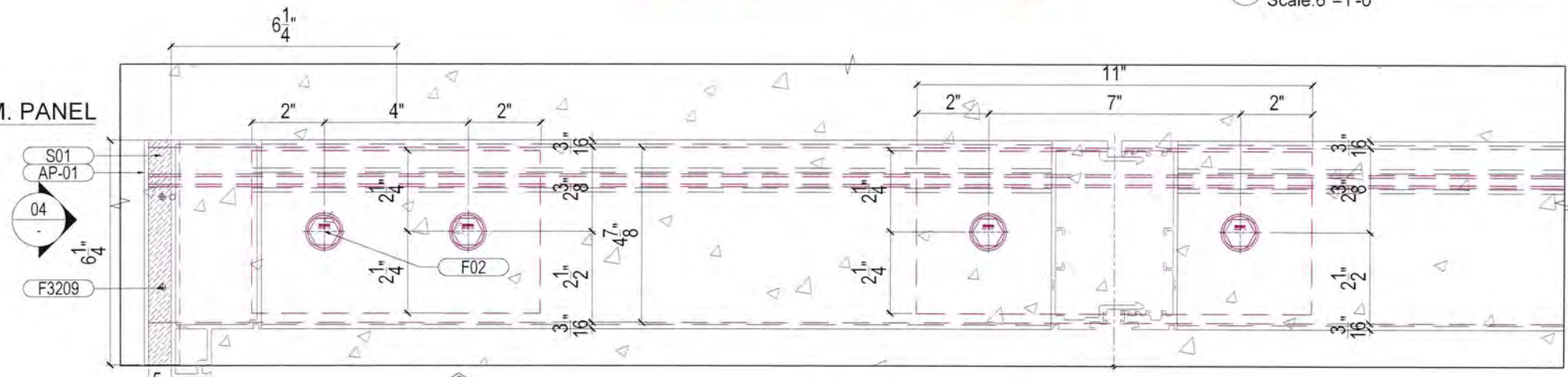
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Scale: 6"=1'-0"



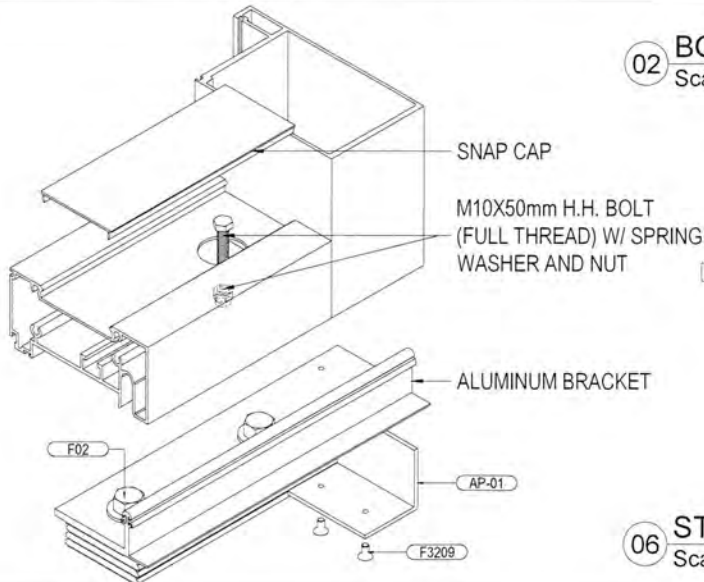
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Scale: 6"=1'-0"



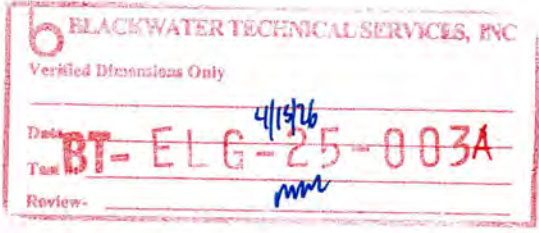
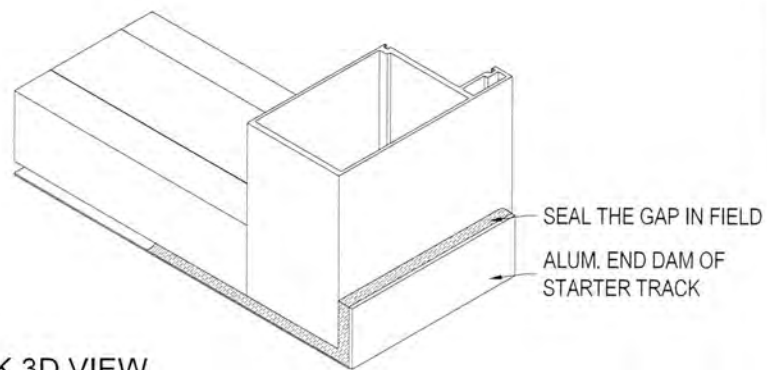
05 TOP STACK JOINT 3D VIEW
Scale: 6"=1'-0"



02 BOTTOM OF STARTER TRACK
Scale: 6"=1'-0"



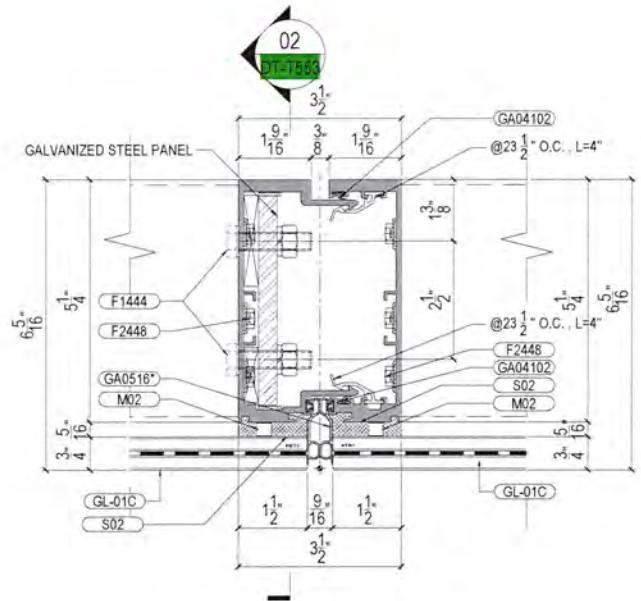
06 STARTER TRACK 3D VIEW
Scale: 6"=1'-0"



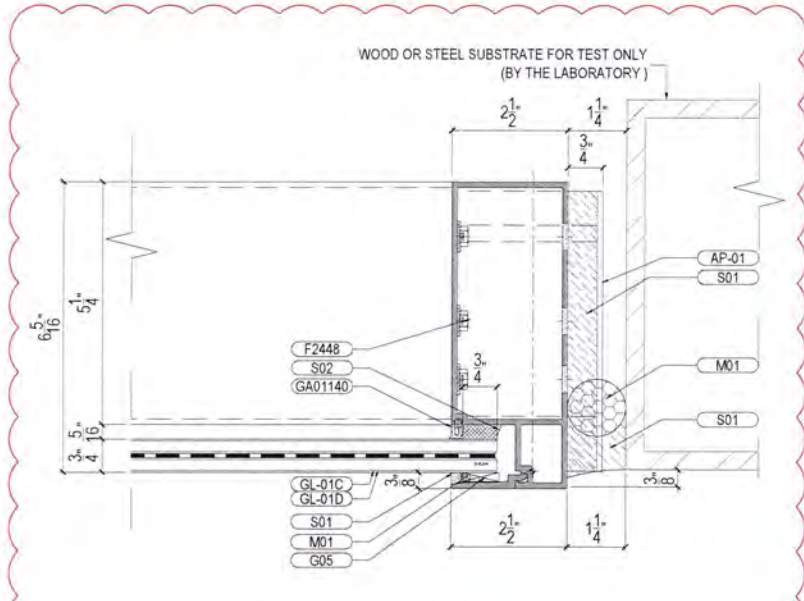
Job No.:
Key Plan/Elevation:

No. Date Description
Revisions:
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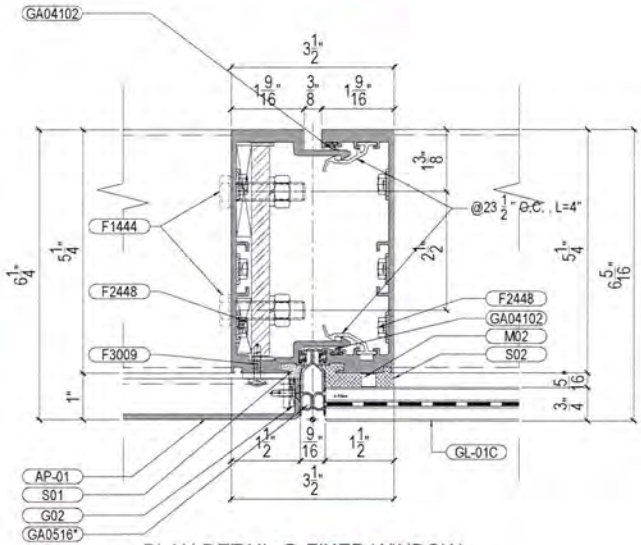
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Project: Shore Club
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Title:
VERTICAL SECTION DETAIL
@ BOTTOM OF PANEL
& STARTER TRACK
Sheet No.: DT-T422
Date: Nov. 13, 2025 Revision No.: -
Scale: 6"=1'-0" Size: 22"x34"
Phase: TESTING DRAWINGS



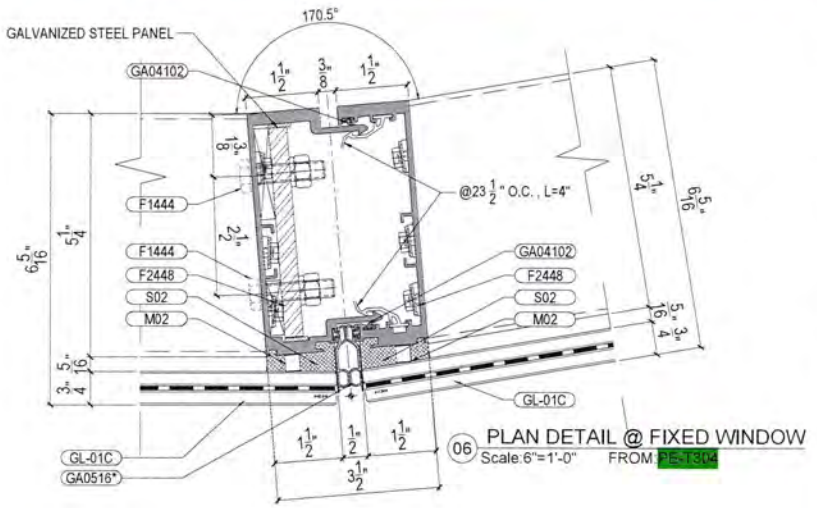
02 PLAN DETAIL @ FIXED WINDOW
Scale 6"=1'-0" FROM P-1304



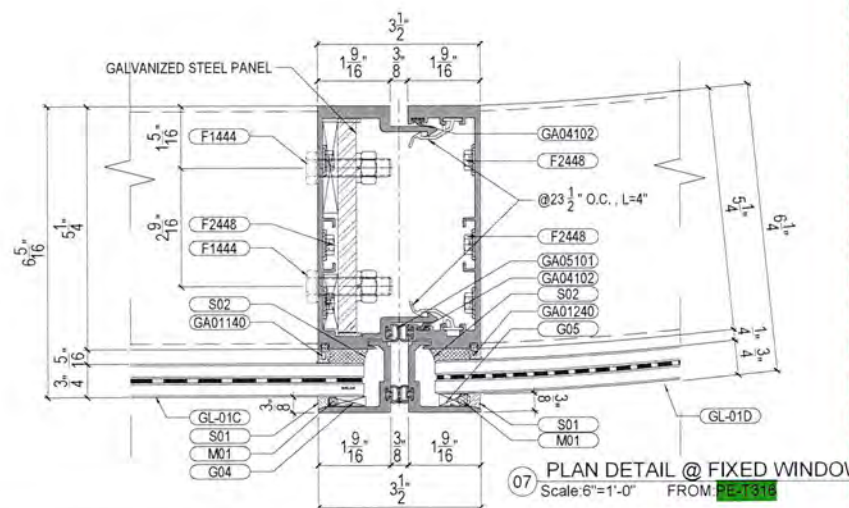
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Scale 6"=1'-0" FROM P-1304



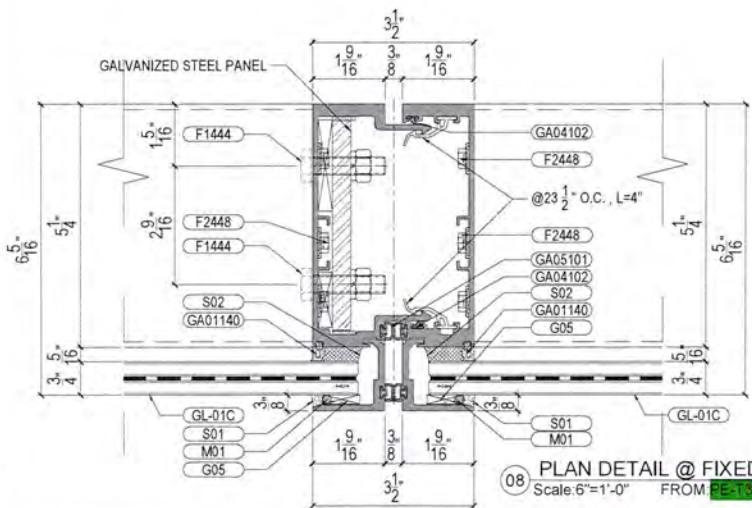
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Scale 6"=1'-0" FROM P-1304



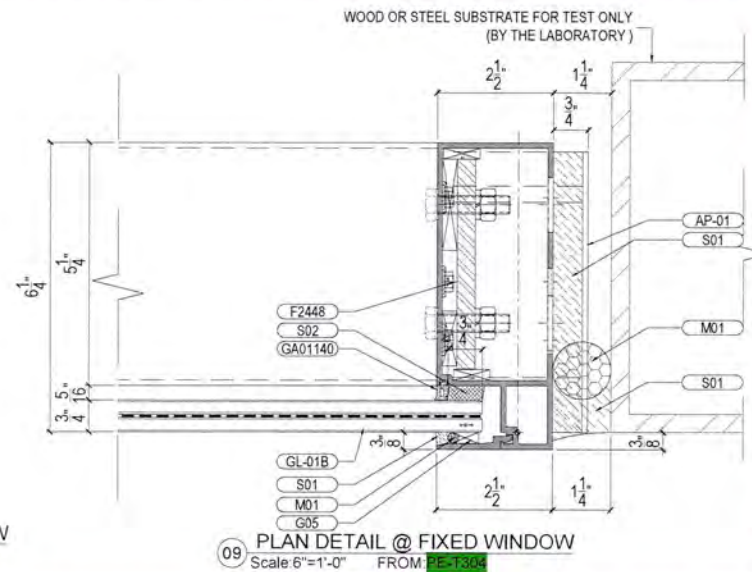
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Scale 6"=1'-0" FROM P-1304



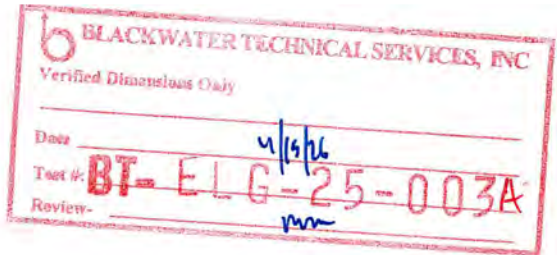
07 PLAN DETAIL @ FIXED WINDOW
Scale 6"=1'-0" FROM P-1304



08 PLAN DETAIL @ FIXED WINDOW
Scale 6"=1'-0" FROM P-1304



09 PLAN DETAIL @ FIXED WINDOW
Scale 6"=1'-0" FROM P-1304



Job No.:

Key Plan/Elevation:



No.	Date	Description
4	Oct. 31, 2025	REVISED AS COMMENTS
3	Apr. 9, 2025	REVISED AS COMMENTS
2	Jul. 09, 2024	REVISED AS COMMENTS
1	Jun. 05, 2024	Issued for review

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Project: Shore Club
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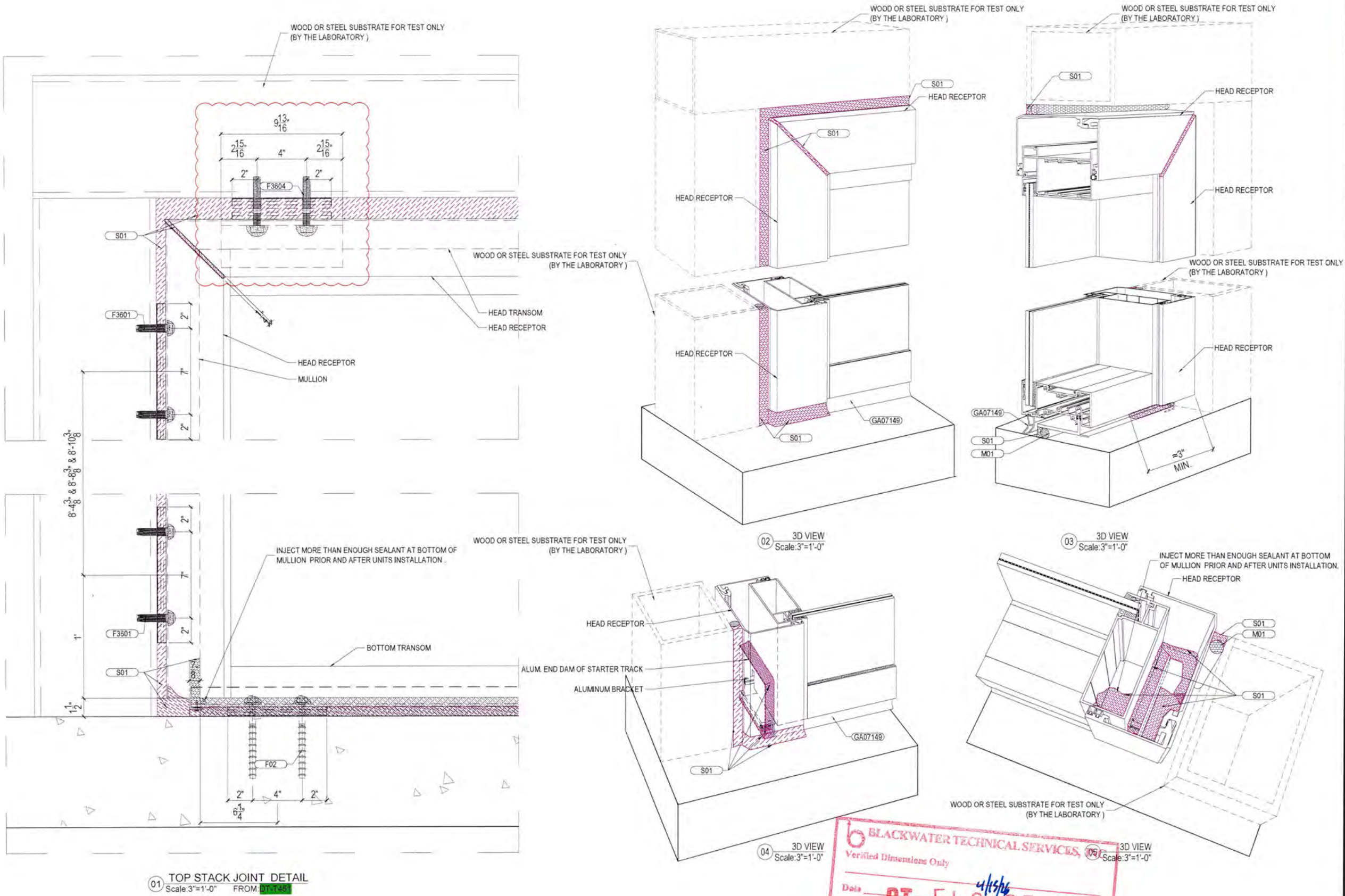
Title:
PLAN DETAIL
@ FIXED WINDOW

Sheet No.: DT-T451

Date: Oct. 31, 2025 Revision No.: 4

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

Phase: TESTING DRAWINGS



BLACKWATER TECHNICAL SERVICES
Verified Dimensions Only
Date: 4/15/26
Test #: BT-ELG-25-003A
Review: mm



No.	Date	Description
2	Sep. 4, 2025	REVISED AS COMMENTS
1	Apr. 9, 2025	Issued for review

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Checked By:

Design Team:

Project: Shore Club
1901 Collins Ave.
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Title:
TOP STACK JOINT 3D DETAIL

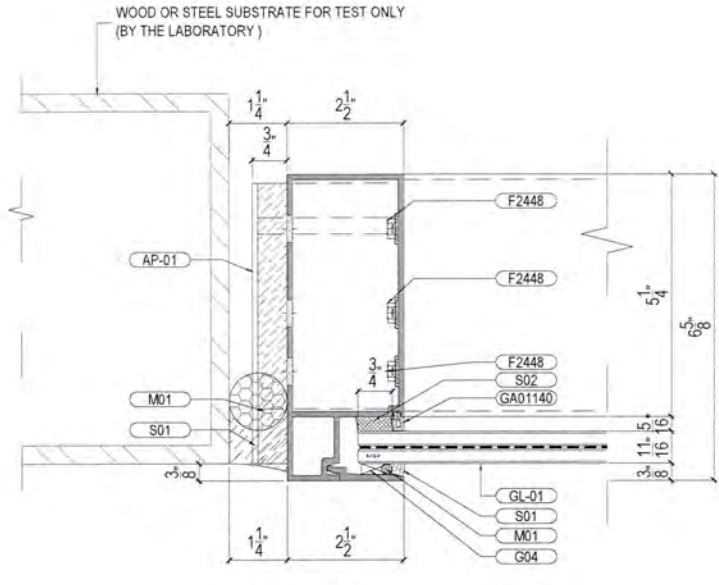
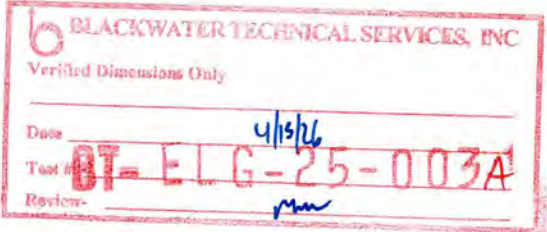
Sheet No.: DT-T451a

Date: Sep. 4, 2025 Revision No.: 2

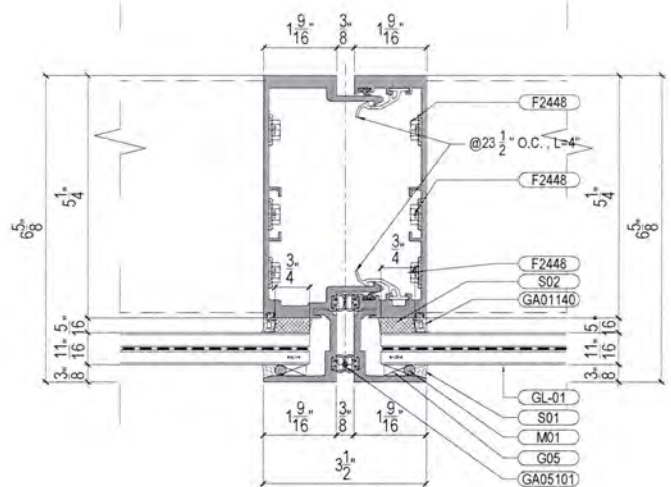
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Phase: TESTING DRAWINGS

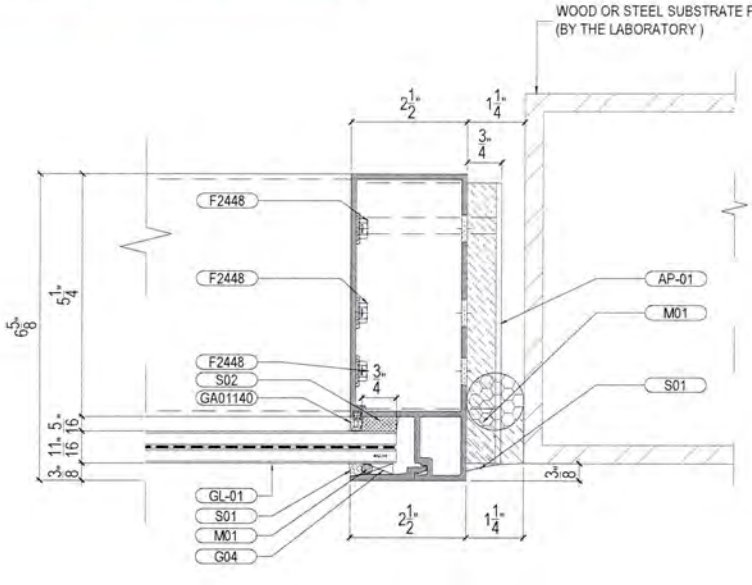




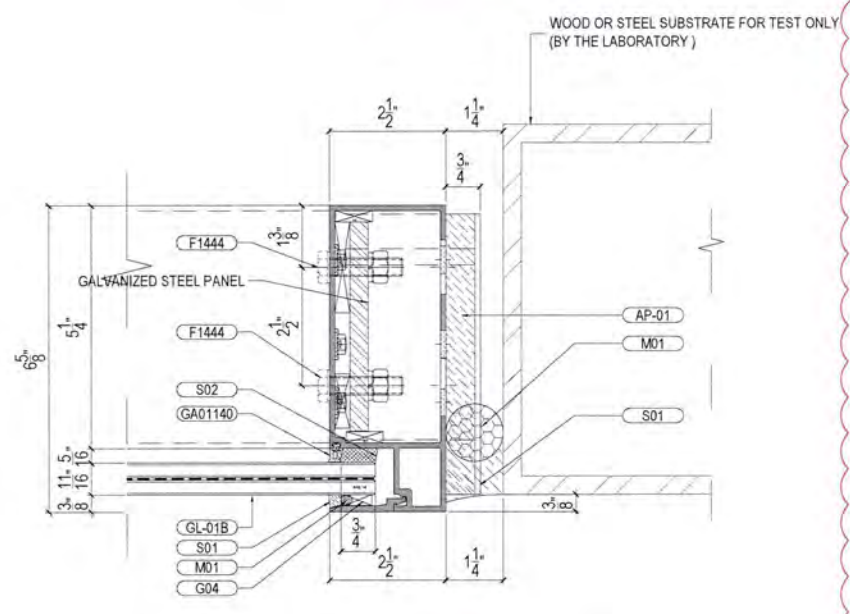
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Scale: 6"=1'-0" FROM E-13.12



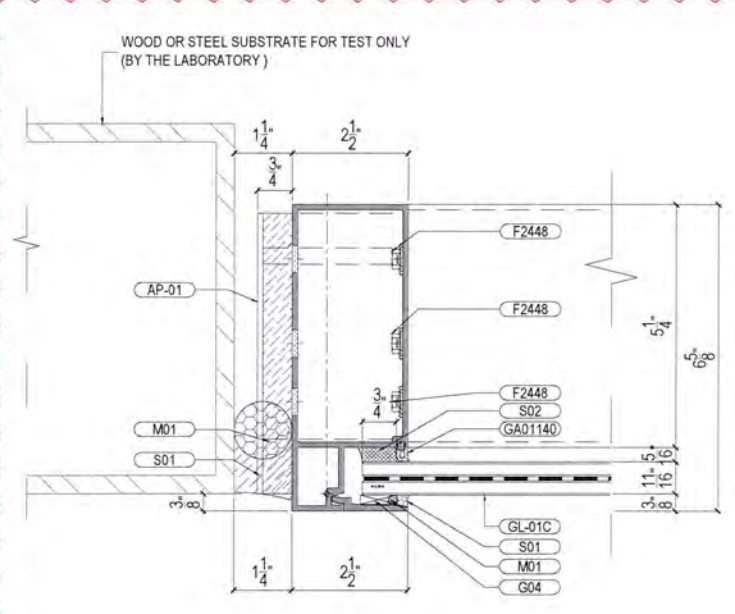
02 PLAN DETAIL @ FIXED WINDOW
Scale: 6"=1'-0" FROM E-13.12



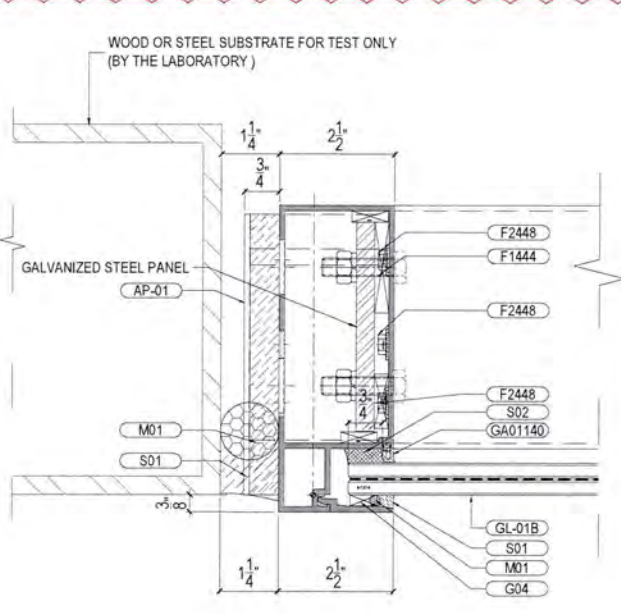
03 PLAN DETAIL @ FIXED WINDOW
Scale: 6"=1'-0" FROM E-13.12



04 PLAN DETAIL @ FIXED WINDOW
Scale: 6"=1'-0" FROM E-13.12



05 PLAN DETAIL @ FIXED WINDOW
Scale: 6"=1'-0" FROM E-13.12



06 PLAN DETAIL @ FIXED WINDOW
Scale: 6"=1'-0" FROM E-13.12



No.	Date	Description
1	Jul. 09, 2024	Issued for review

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Approved By:

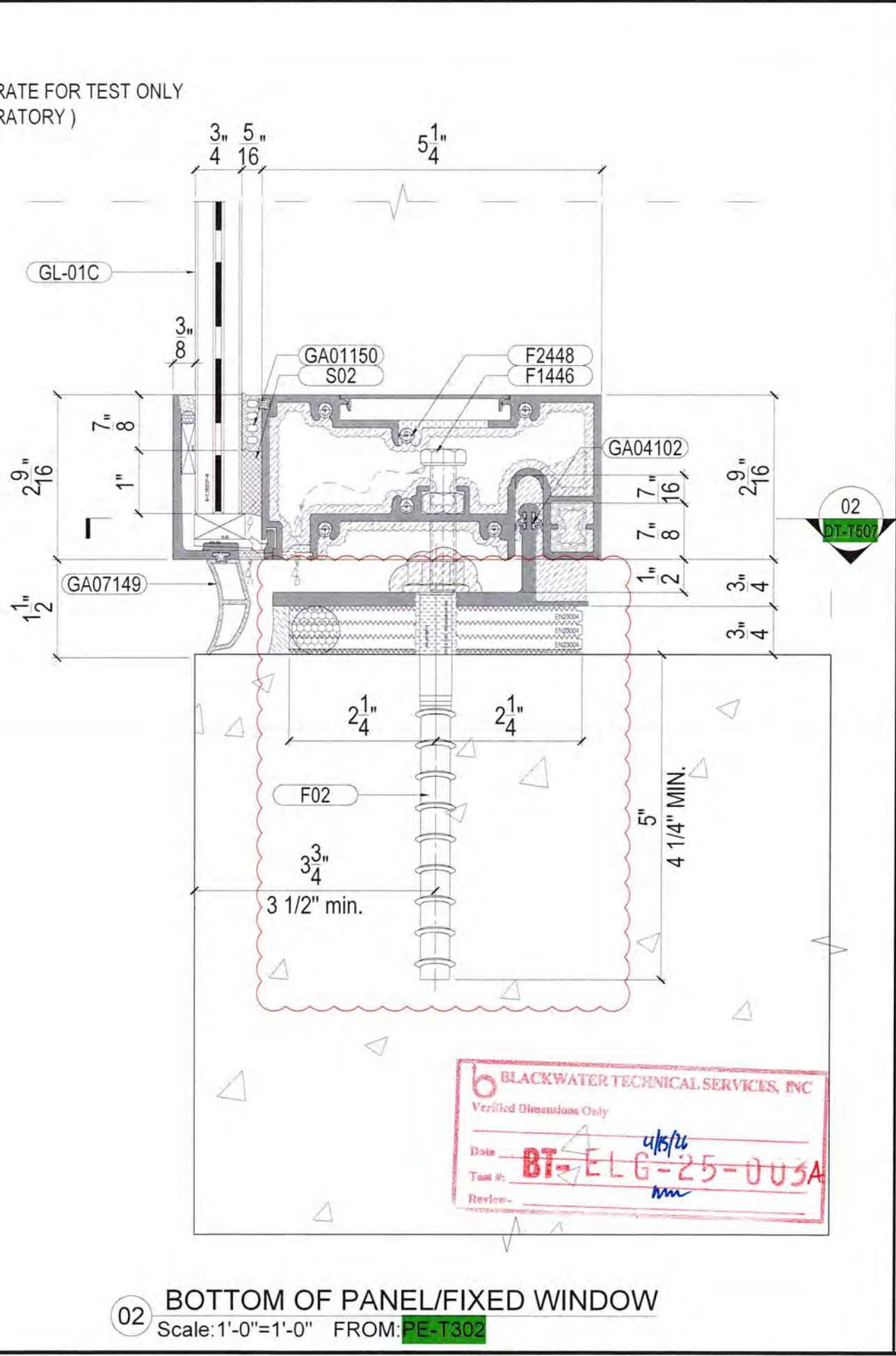
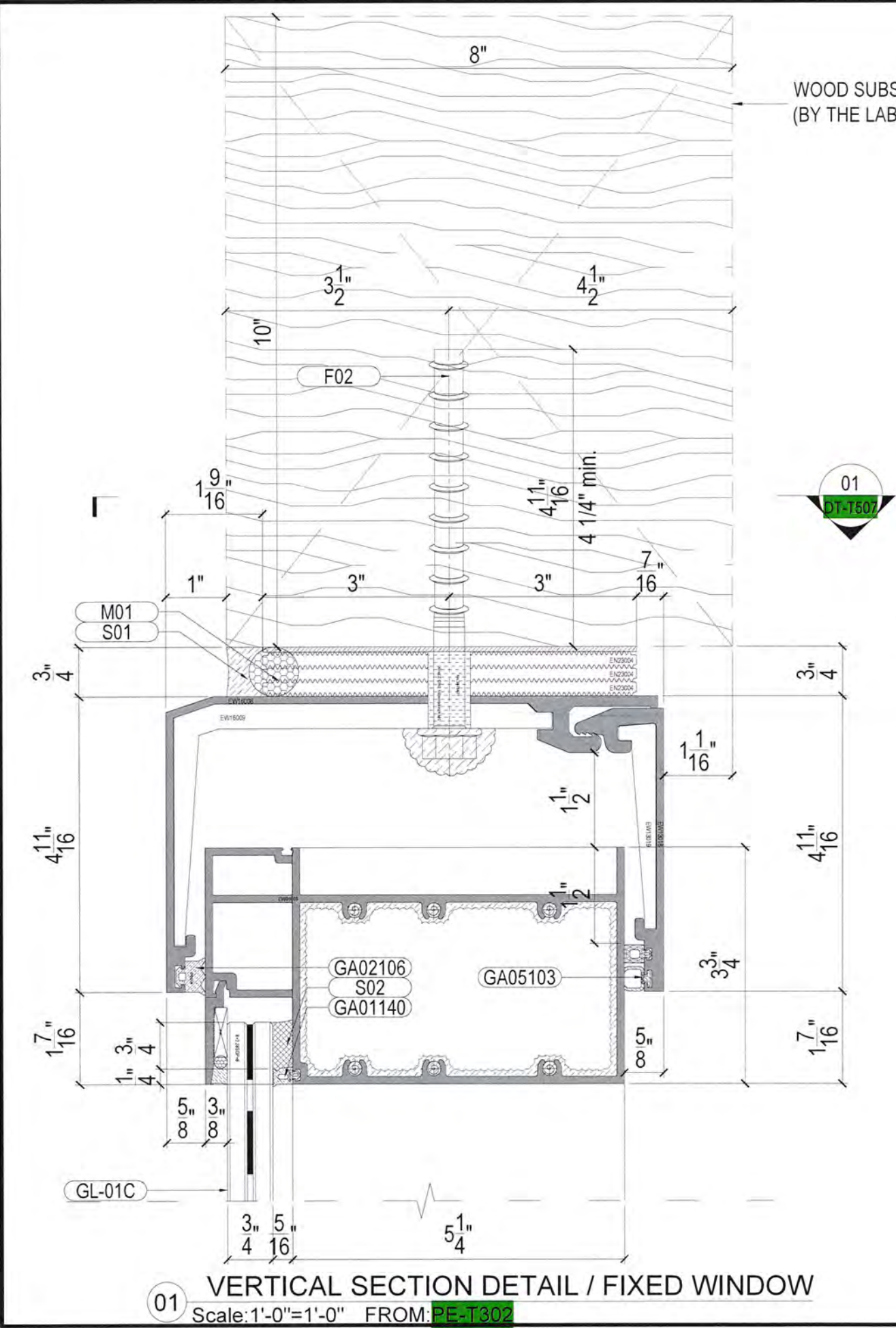
Checked By:

Design Team:

Project: Shore Club
1901 Collins Ave.
Miami Beach, FL 33139

Title:
PLAN DETAIL
@ FIXED WINDOW

Sheet No.: DT-T462	
Date: Jul. 09, 2024	Revision No.: 1
Scale: 6"=1'-0"	Size: 22"x34"
Phase: TESTING DRAWINGS	



BLACKWATER TECHNICAL SERVICES, INC
Verified Dimensions Only
Date: 4/5/26
Test #: BT-ELG-25-003A
Review: mm

Job No.:
Key Plan/Elevation:



No.	Date	Description
1	Apr. 9, 2025	Issued for review

Revisions:

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Checked By:

Design Team:

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Miami Beach, FL 33139

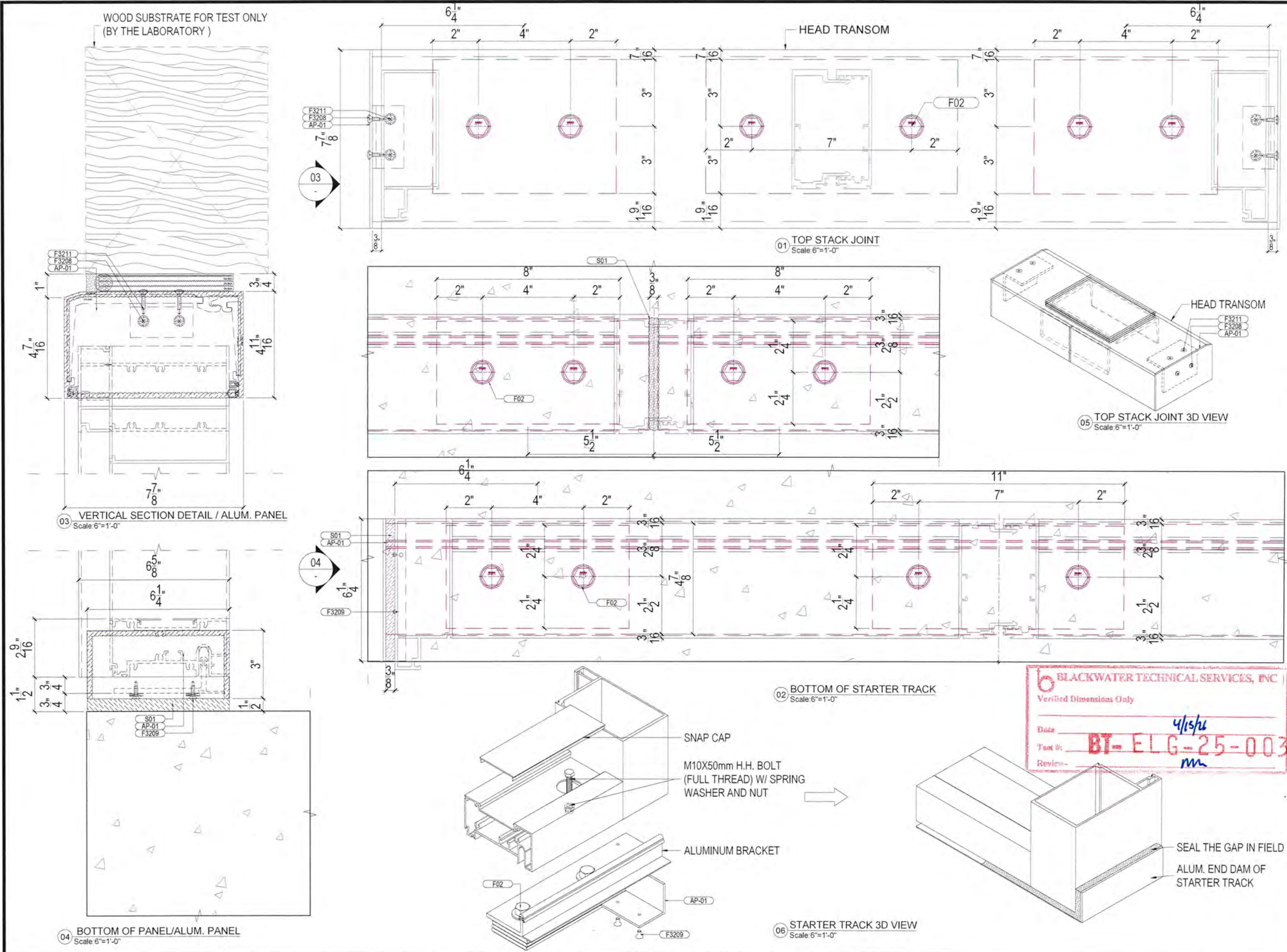
Title:
VERTICAL SECTION DETAIL
@ FIXED WINDOW

Sheet No.: DT-T506

Date	Revision No.
Apr. 9, 2025	1

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

Phase: TESTING DRAWINGS



1	Jul. 9, 2024	Issued for review
No.	Date	Description

Revisions:

Contractor:
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Checked By:

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Project: Shore Club
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Title:
VERTICAL SECTION DETAIL
@ BOTTOM OF PANEL
& STARTER TRACK

Sheet No.: DT-T507

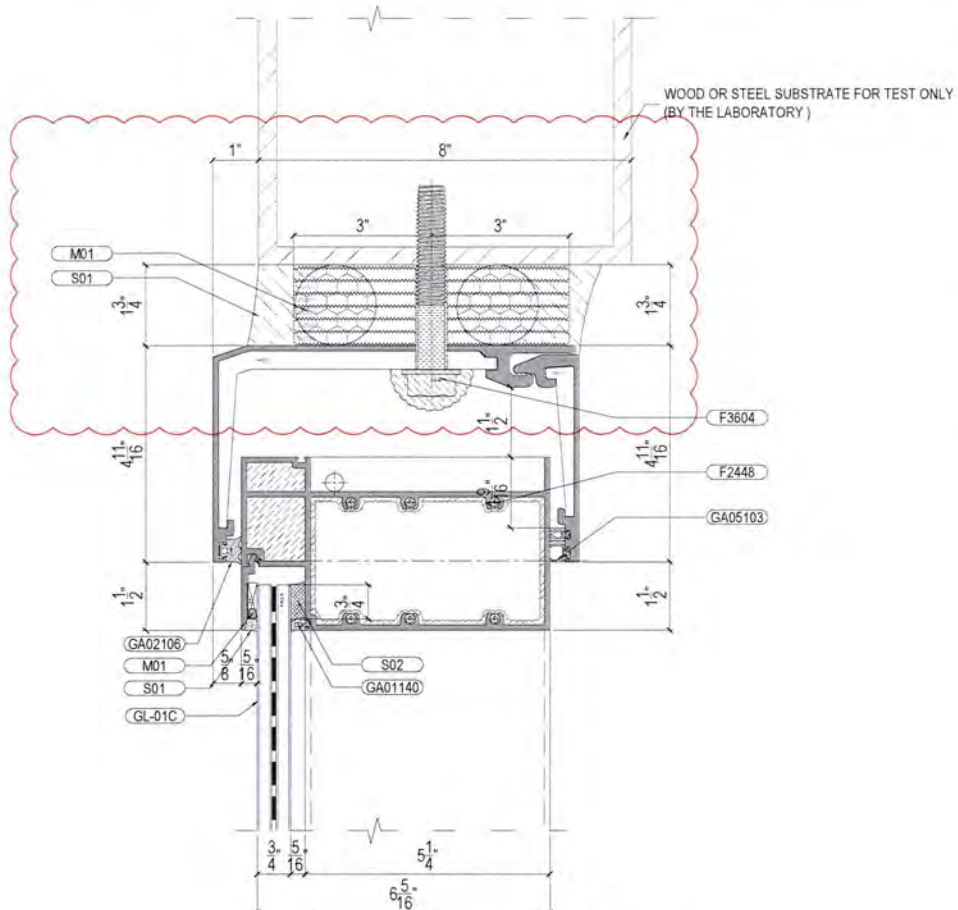
Date: Jul. 9, 2024

Revision No.: 1

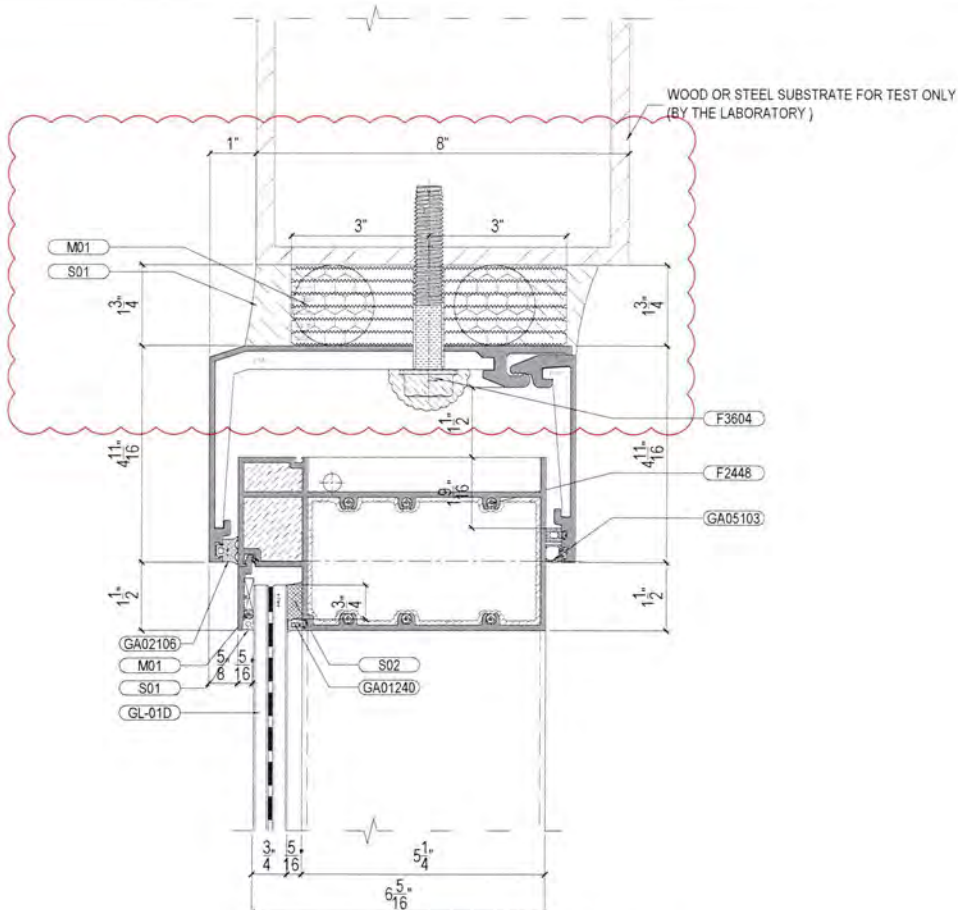
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Size: 22"x34"

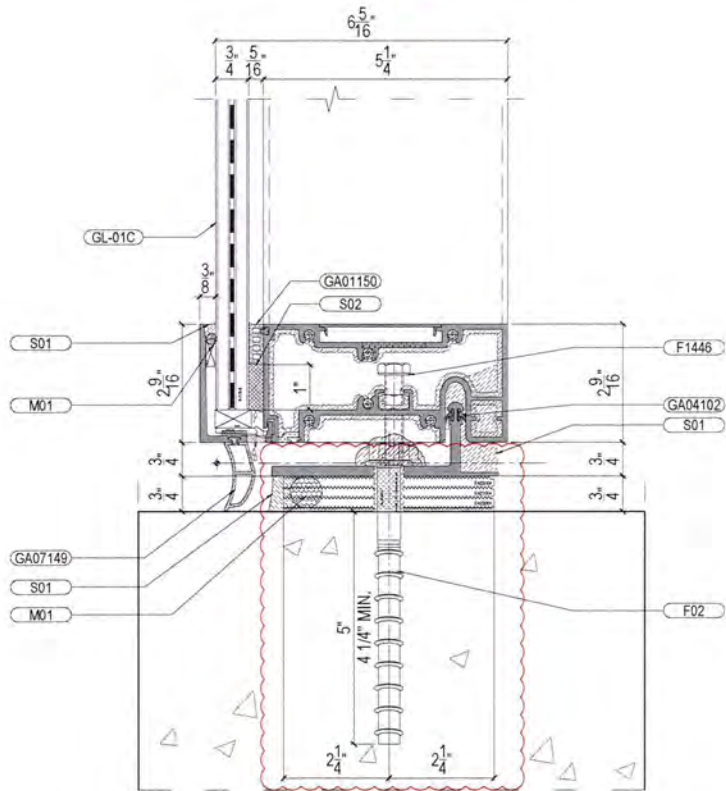
Phase: TESTING DRAWINGS



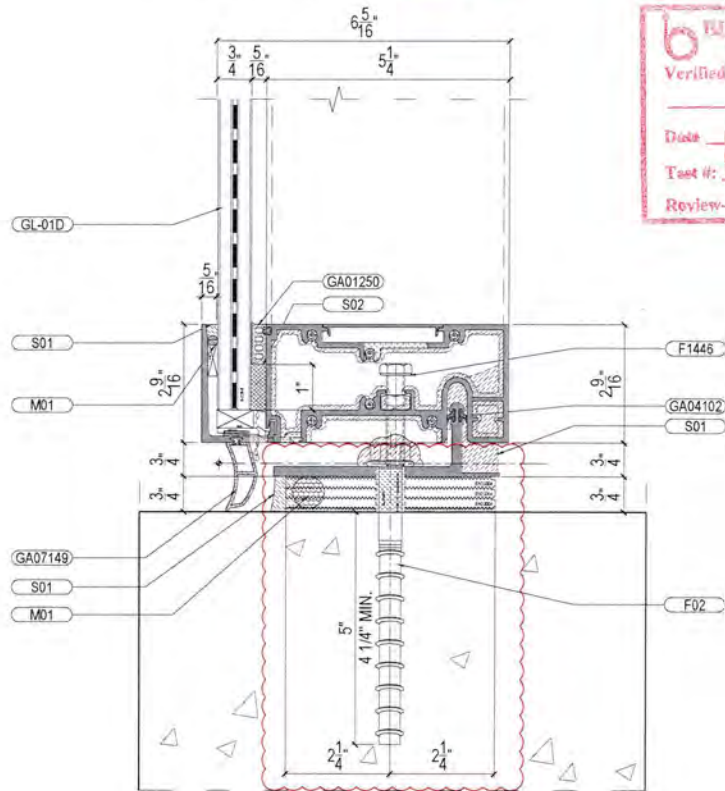
01 VERTICAL SECTION @ FIXED WINDOW
Scale 6"=1'-0" FROM: BT-ELG-25-003A



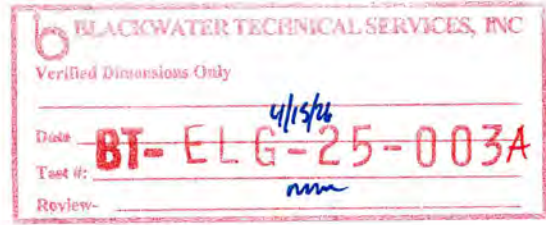
02 VERTICAL SECTION @ FIXED WINDOW
Scale 6"=1'-0" FROM: BT-ELG-25-003A



03 VERTICAL SECTION @ FIXED WINDOW
Scale 6"=1'-0" FROM: BT-ELG-25-003A



04 VERTICAL SECTION @ FIXED WINDOW
Scale 6"=1'-0" FROM: BT-ELG-25-003A



Job No.:

Key Plan/Elevation:



No.	Date	Description
3	Sep. 4, 2025	REVISED AS COMMENTS
2	Apr. 9, 2025	REVISED AS COMMENTS
1	Jul. 09, 2024	Issued for review

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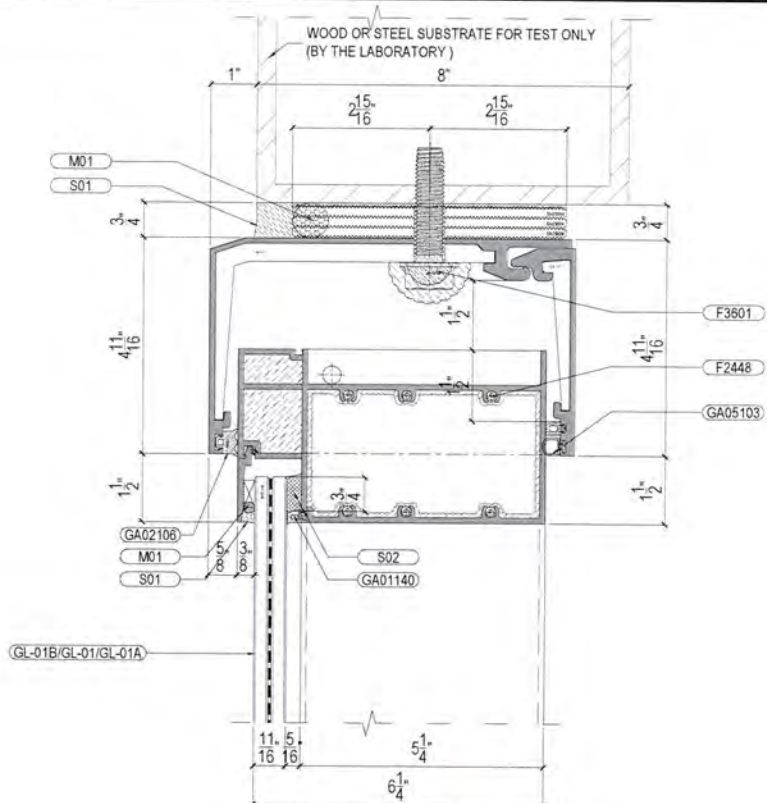
Title:
VERTICAL SECTION
@ FIXED WINDOW

Sheet No.: DT-T551

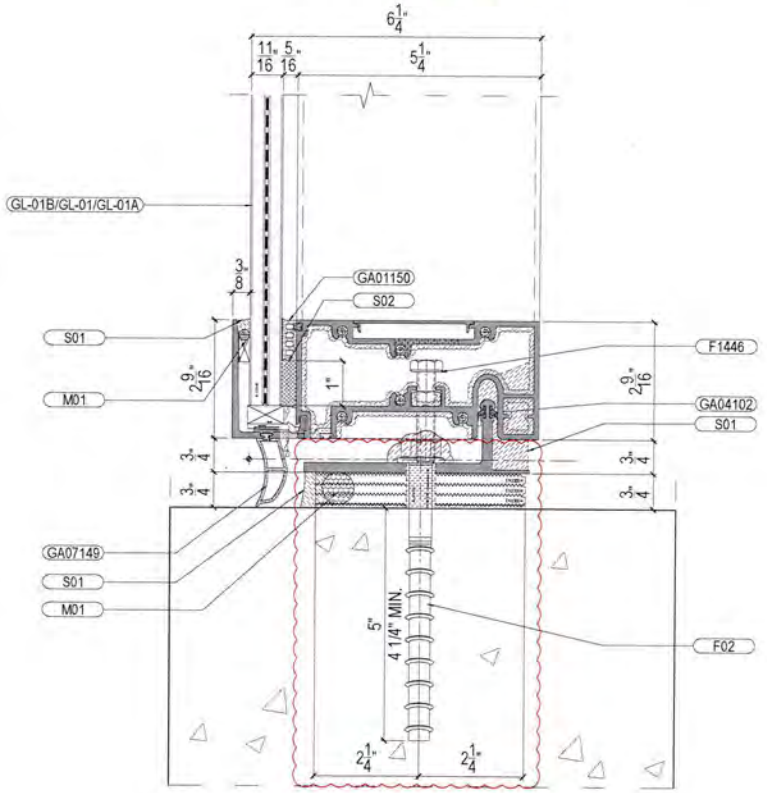
Date: Sep. 4, 2025 Revision No.: 3

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

Phase: TESTING DRAWINGS

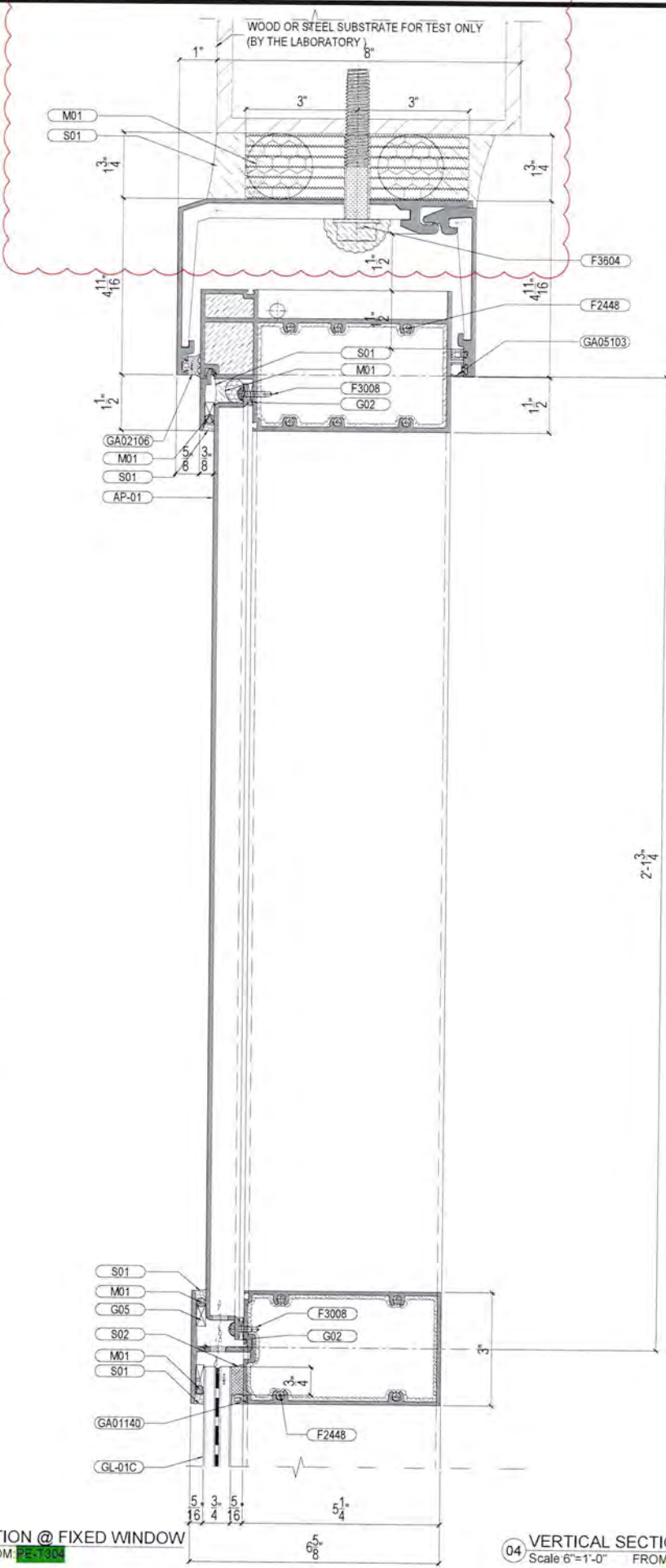


01 VERTICAL SECTION @ FIXED WINDOW
Scale 6"=1'-0" FROM PE-1305



02 VERTICAL SECTION @ FIXED WINDOW
Scale 6"=1'-0" FROM PE-1305

03 VERTICAL SECTION @ FIXED WINDOW
Scale 6"=1'-0" FROM PE-1305



04 VERTICAL SECTION @ FIXED WINDOW
Scale 6"=1'-0" FROM PE-1305



BLACKWATER TECHNICAL SERVICES, INC.
Verified Dimensions Only
Date: 4/15/26
Test # BT-ELG-25-003A
Review: [Signature]

Job No.:
Key Plan/Elevation:


No.	Date	Description
2	Sep. 4, 2025	REVISED AS COMMENTS
1	Apr. 9, 2025	Issued for review

Revisions:

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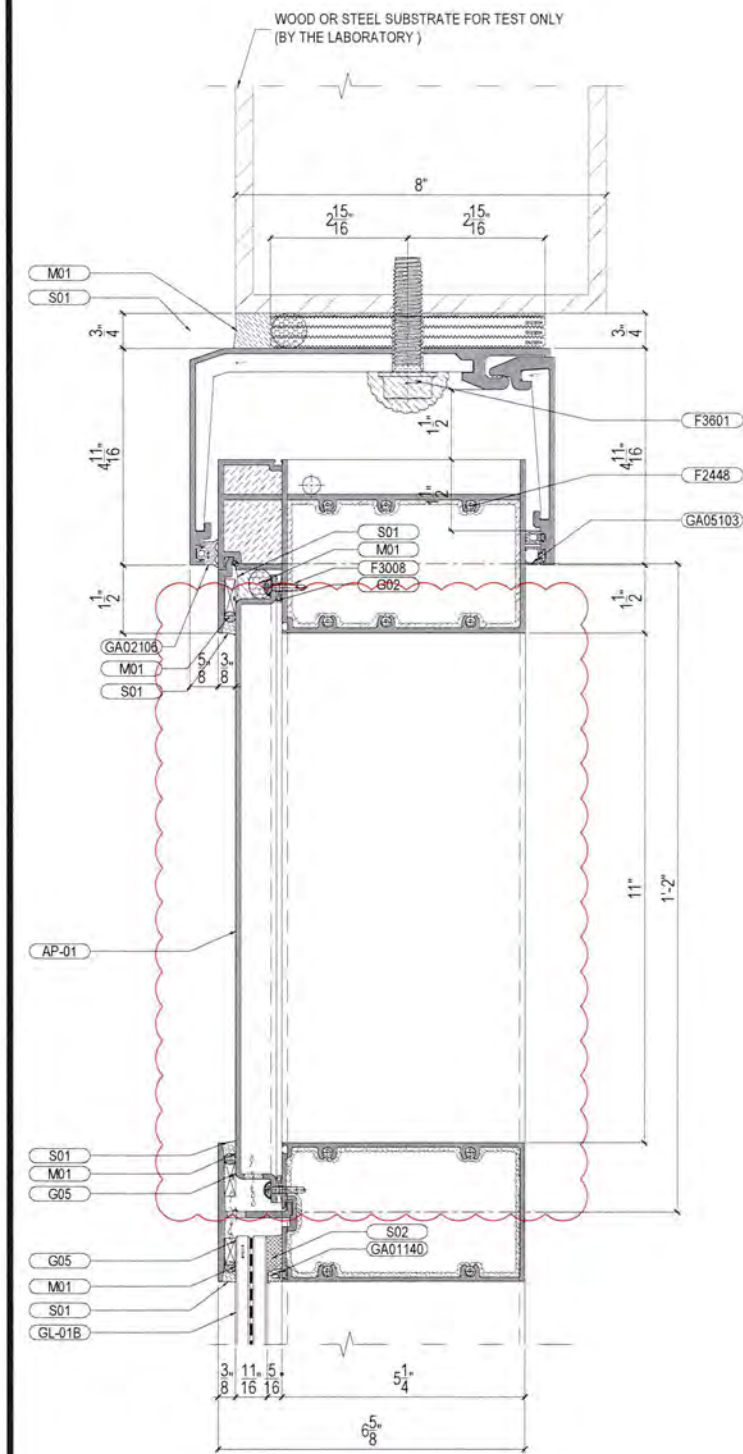
Title:
VERTICAL SECTION
@ FIXED WINDOW

Sheet No.: DT-T552

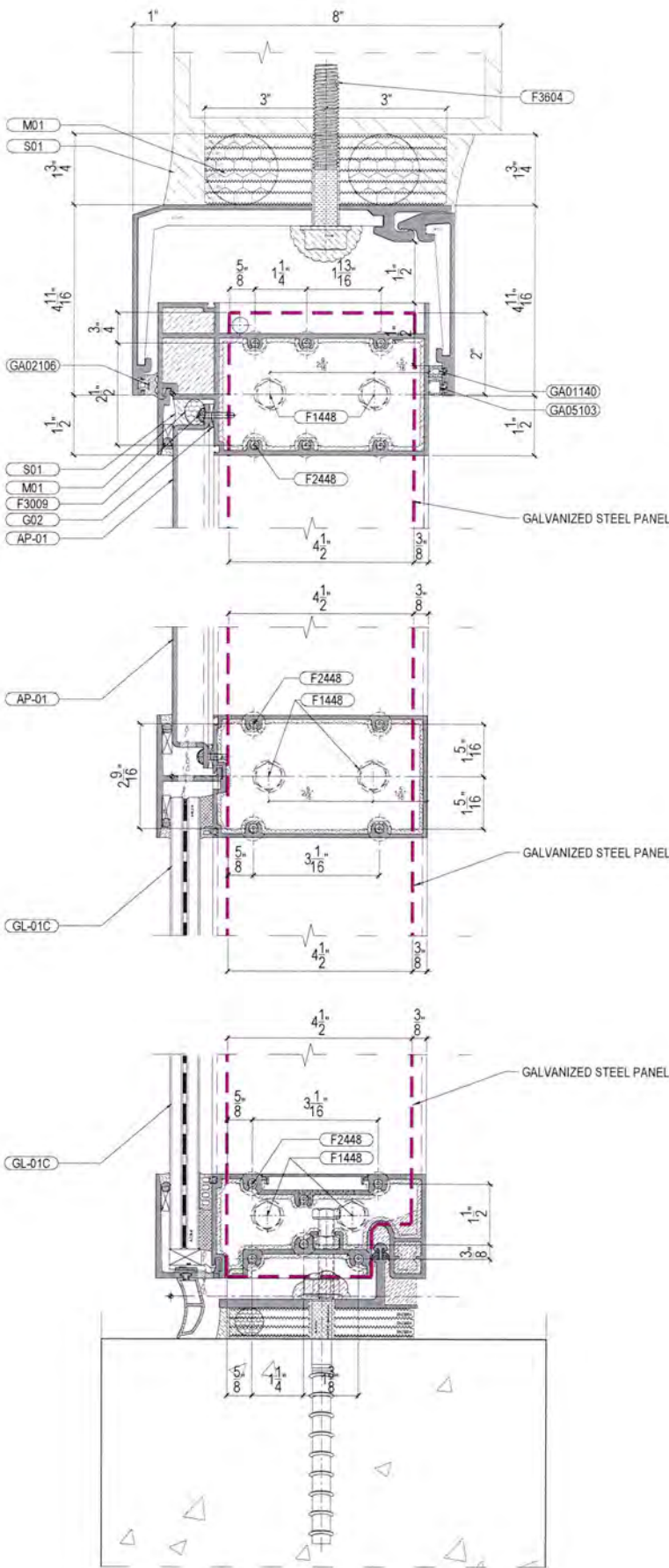
Date	Revision No.
Sep. 4, 2025	2

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

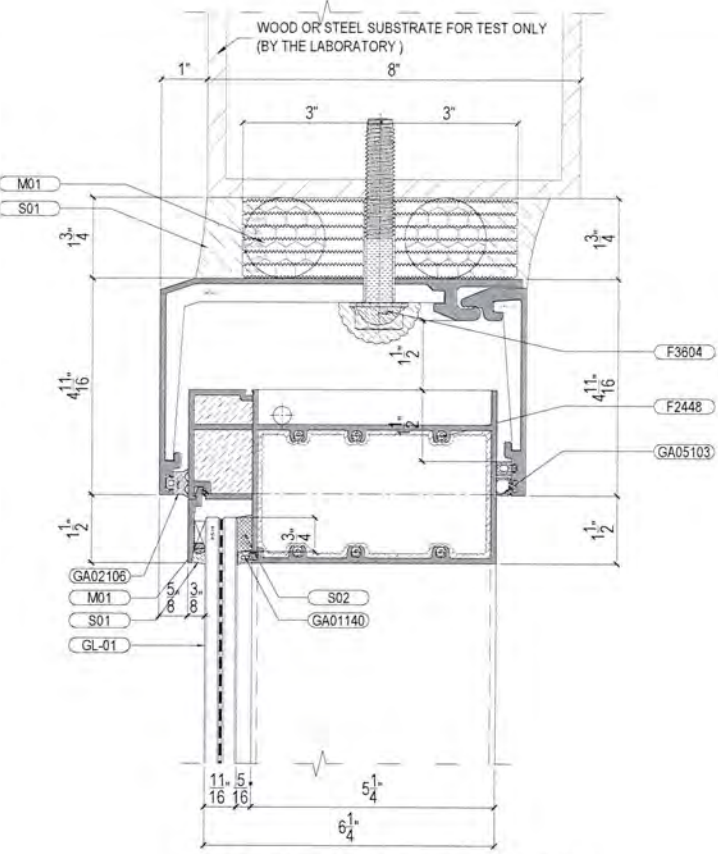
Phase: TESTING DRAWINGS



01 VERTICAL SECTION @ FIXED WINDOW
Scale: 6"=1'-0" FROM: P-15.1.2



02 VERTICAL SECTION @ FIXED WINDOW
Scale: 6"=1'-0" FROM: P-15.1.2



03 VERTICAL SECTION @ FIXED WINDOW
Scale: 6"=1'-0" FROM: P-15.1.2



Revisions:

No.	Date	Description
3	Oct. 15, 2025	REVISED AS COMMENTS
2	Sep. 4, 2025	REVISED AS COMMENTS
1	Apr. 9, 2025	Issued for review

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Sheet No.: DT-T553

Date: Oct. 15, 2025 Revision No.: 3

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

Phase: TESTING DRAWINGS