

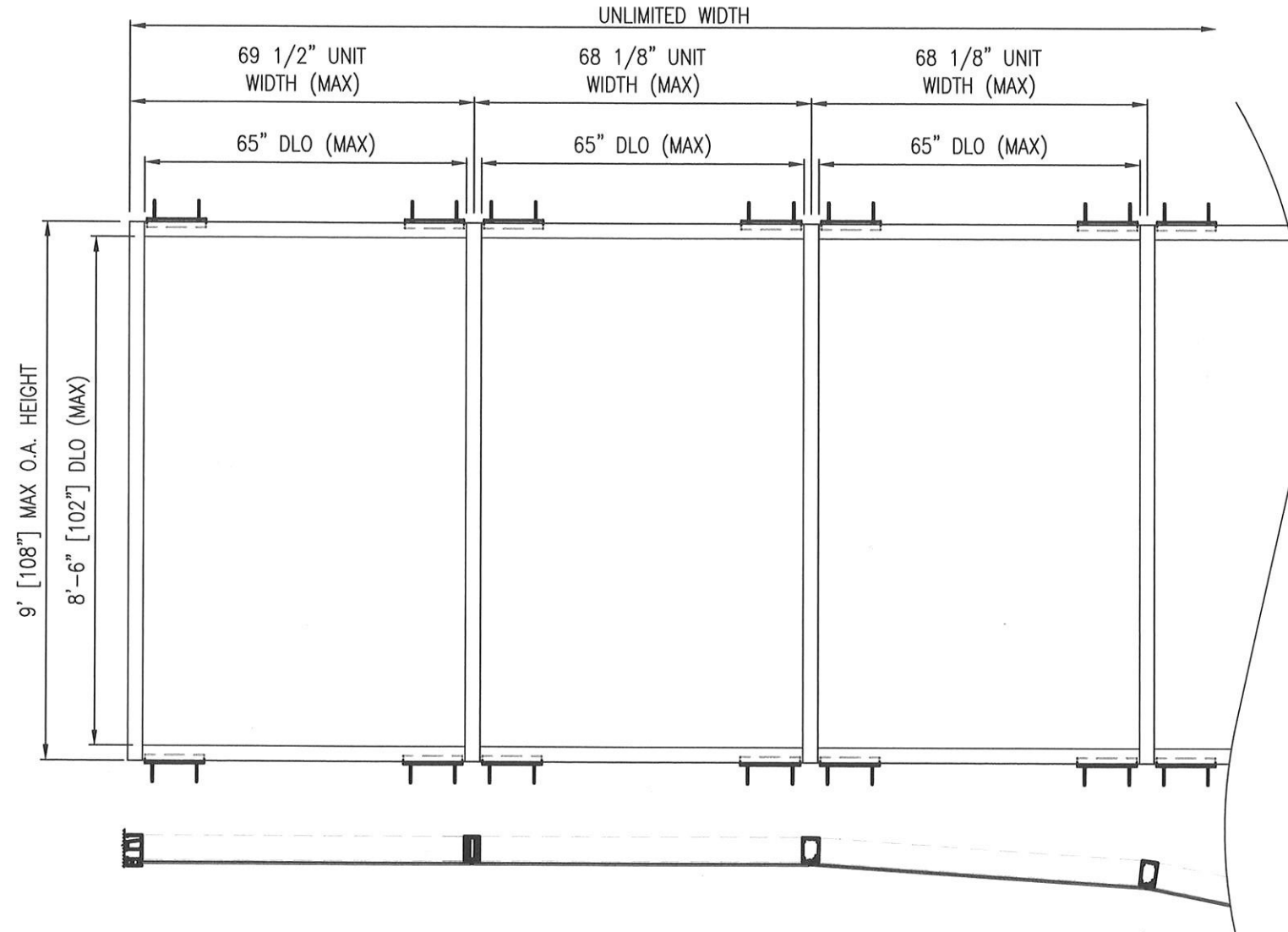
SERIES 650WS ALUMINUM WINDOW WALL

"SMALL MISSILE IMPACT"

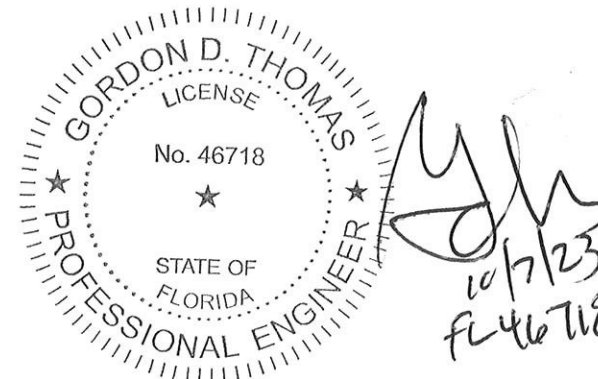
GENERAL NOTES:

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in "HVHZ", for installation above 30 feet above grade, this product complies with Section 1626 of the Florida Building Code as a small missile impact resistant product and does not require an impact resistant covering. For installations 30 feet or less above grade, this product must be protected with an impact resistant covering that complies with Section 1626 of the Florida Building Code.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection, for installations above 30 feet above grade this product complies with Section 1609.1.2 of the 2020 FBC as a small missile impact resistant product and does not require an impact resistant covering. For installations 30 feet or less above grade, this product must be protected with an impact resistant covering that complies with Section 1609.1.2 of the Florida Building Code.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. This product meets water infiltration requirements for "HVHZ".
8. Aluminum components including fasteners, shall meet the requirements of FBC Section 2003.

INDEX TO DRAWINGS	
SHEET #	DESCRIPTION
1	GENERAL NOTES, ELEVATION AND DESIGN PRESSURES
2	ELEVATION - INSIDE SPLAY (+/- 100 PSF)
3	ELEVATION - OUTSIDE SPLAY (+/- 177 PSF)
4	VERTICAL DETAILS (9/16" GLAZING)
4	VERTICAL DETAILS (1-5/16" GLAZING)
5	HORIZONTAL DETAILS
6	COMPONENTS
7	BILL OF MATERIALS, GLAZING AND ANCHOR SCHEDULE



650WS WINDOW WALL DESIGN PRESSURE TABLE									
MAX UNIT HEIGHT	MAX UNIT WIDTH	REINFORCED	GLAZING TYPE	GLAZING CONDITION	MAX. D.L.O. DIMENSION	DESIGN PRESSURE (PSF)		IMPACT RATING	
						POSITIVE	NEGATIVE		
108	68 1/8"	YES	G1, G3	BUTT GLAZED	65" X 102"	+100	-100	SMALL MISSILE IMPACT	
108	55"	YES	G2, G4	BUTT GLAZED	52 X 102"	177	-177	SMALL MISSILE IMPACT	



5008 TAMPA WEST BLVD.
TAMPA, FLORIDA 33634
PHONE: (813) 889-0718
FAX: (813) 886-0666

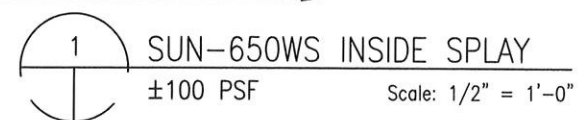
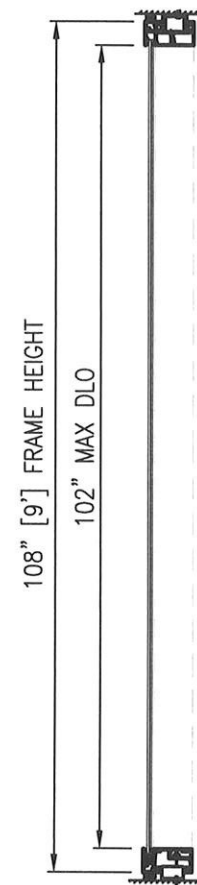


PRODUCT:
SERIES 650WS WINDOW WALL

PART OR ASSEMBLY:
GENERAL NOTES, ELEVATION
AND DESIGN PRESSURES

NO	DATE	DESCRIPTION	BY

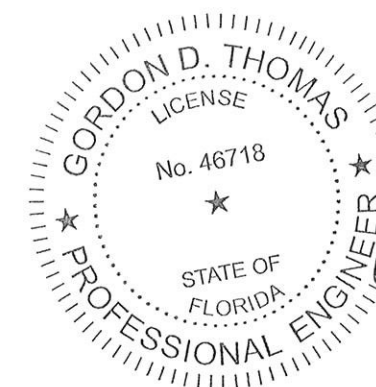
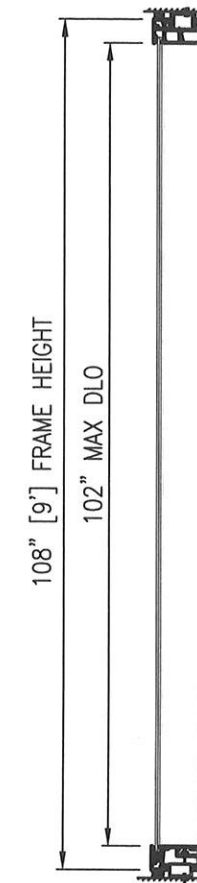
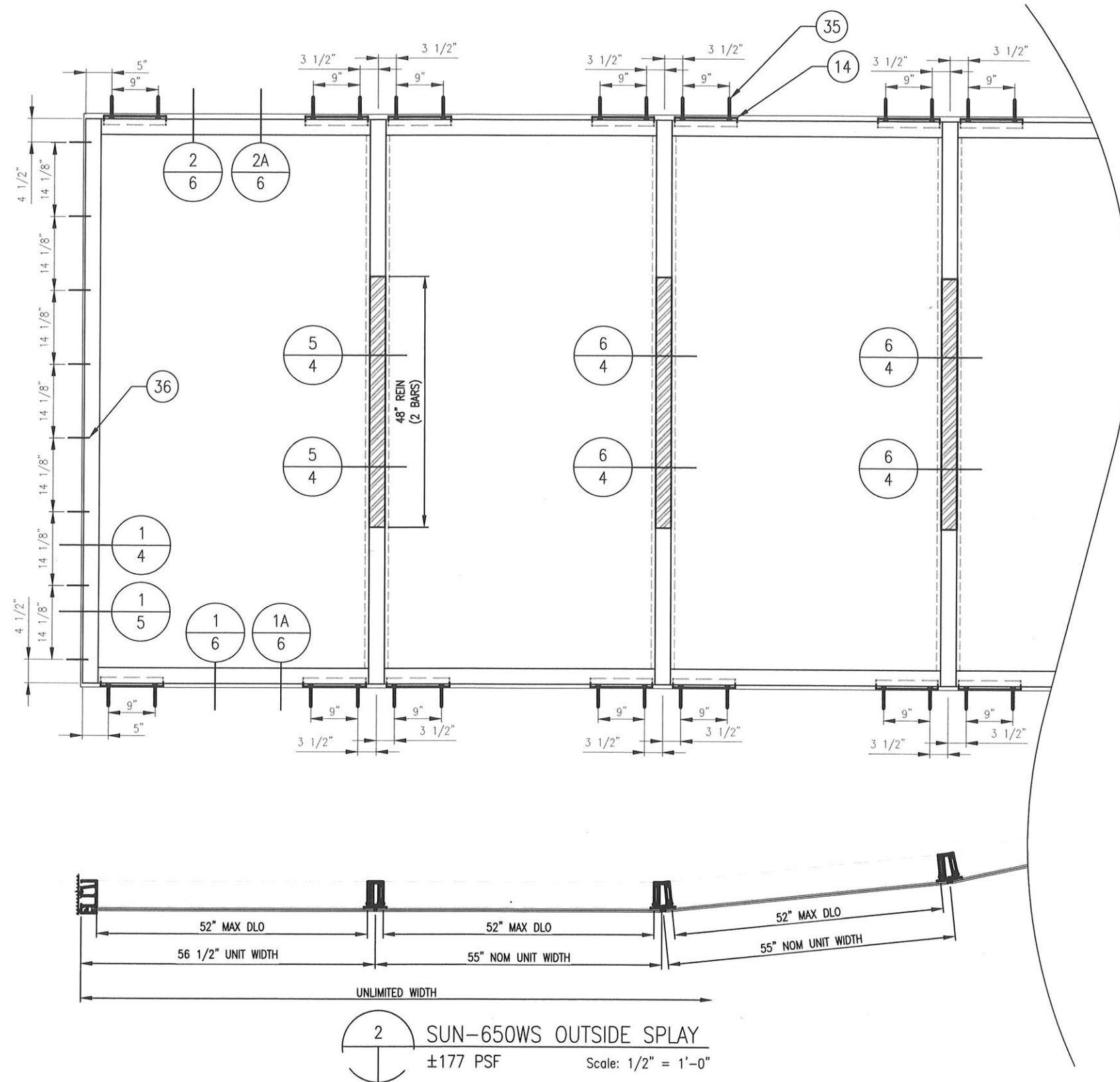
DATE: 9/13/23
SCALE: AS INDICATED
DWG. BY: ECV
CHK BY:
DRAWING NO.:
FL24544.6
SHEET: 1 OF 8



SUN METALS

PART OR ASSEMBLY:
ELEVATION
INSIDE SPLAY ($\pm$ 100 PSF)

DATE: 9/13/23
SCALE: AS INDICATED
DWG. BY: ECV
CHK BY:
DRAWING NO.: FL24544.6
SHEET: 2 OF 8



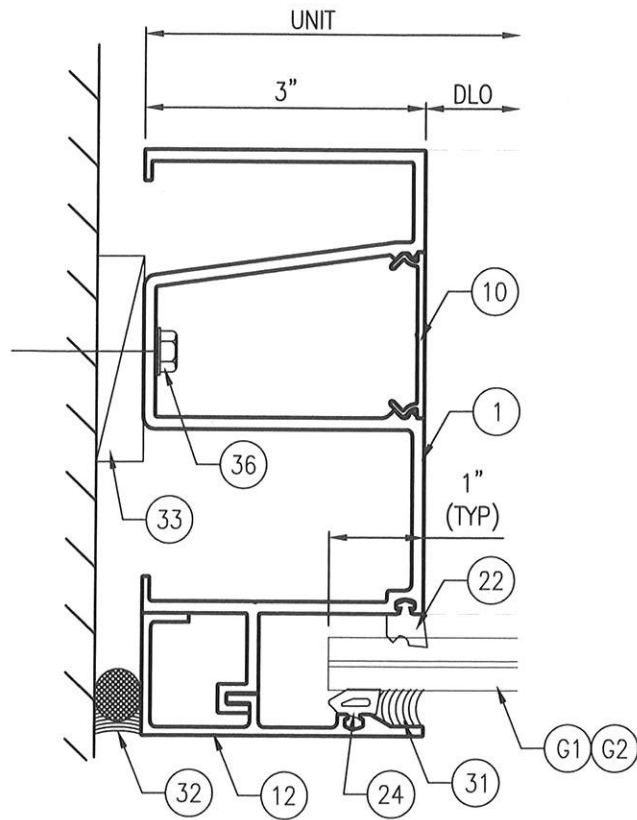
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 10/7/23
 FL 46718

2 SUN-650WS OUTSIDE SPLAY
 ±177 PSF Scale: 1/2" = 1'-0"

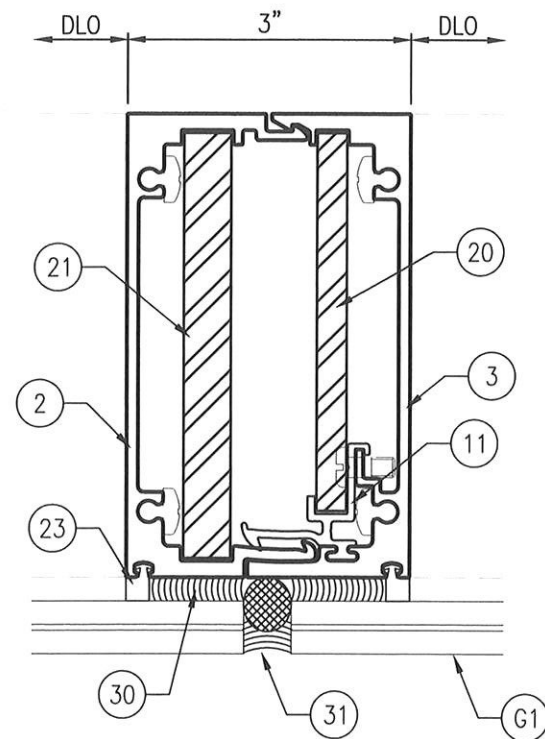
5008 TAMPA WEST BLVD.
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SUN METALS

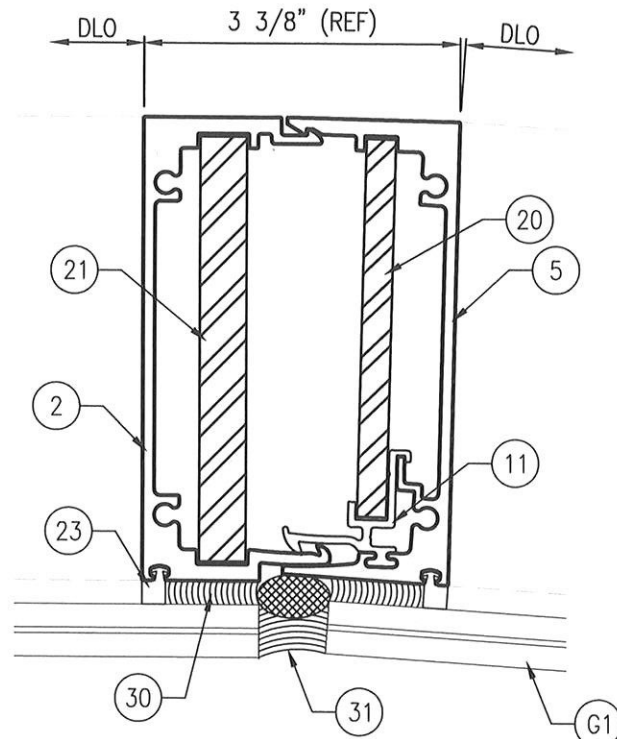
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DRAWING NO.: FL24544.6		SHEET: 3 OF 8	



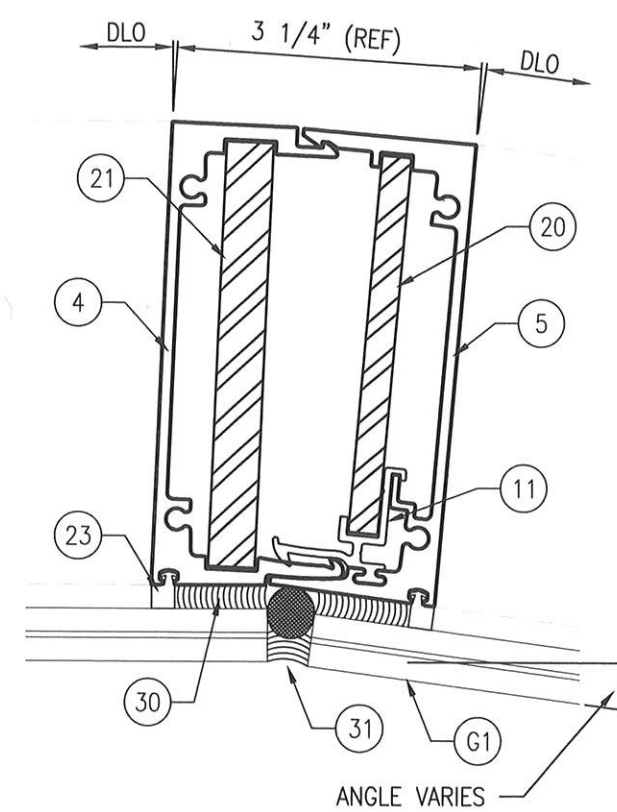
1 JAMB - CAPTURED
Scale: 6" = 1'-0"



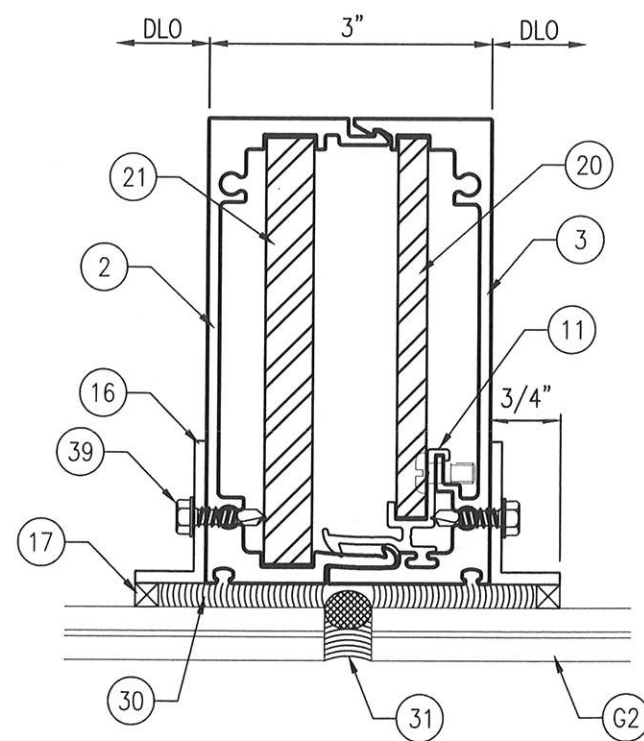
2 MULLION - BUTT GLAZED
STANDARD
Scale: 6" = 1'-0"



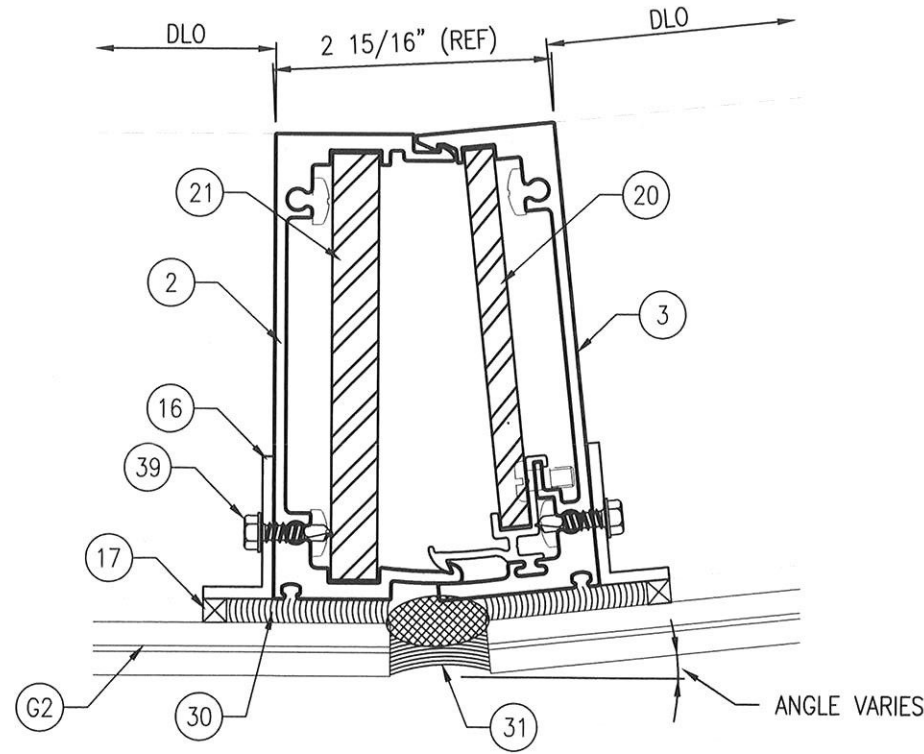
3 MULLION - BUTT GLAZED
TRANSITION
Scale: 6" = 1'-0"



4 MULLION - BUTT GLAZED
INSIDE SPLAY
Scale: 6" = 1'-0"

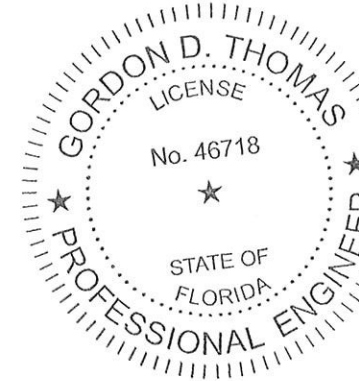


5 MULLION - BUTT GLAZED
HIGH LOAD
Scale: 6" = 1'-0"



6 MULLION - BUTT GLAZED
OUTSIDE SPLAY
Scale: 6" = 1'-0"

41 ALL FRAME ASSEMBLY SCREWS TO BE
#14 X 1-1/2" PH S/S SMS



Handwritten signature and date:
9/12/23
#246718

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FAX: (813) 886-0666



PRODUCT:
SERIES 650WS WINDOW WALL

PART OR ASSEMBLY:
VERTICAL DETAILS
9/16" GLAZING

NO	DATE	DESCRIPTION	BY

DATE: 9/13/23

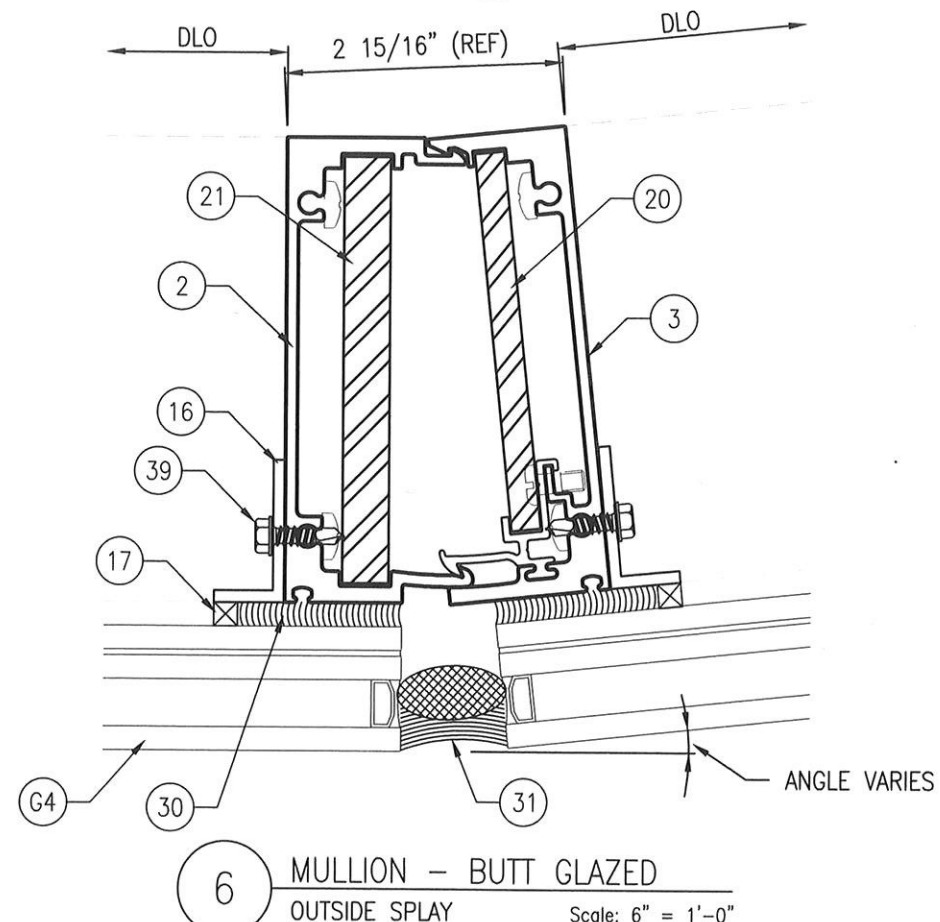
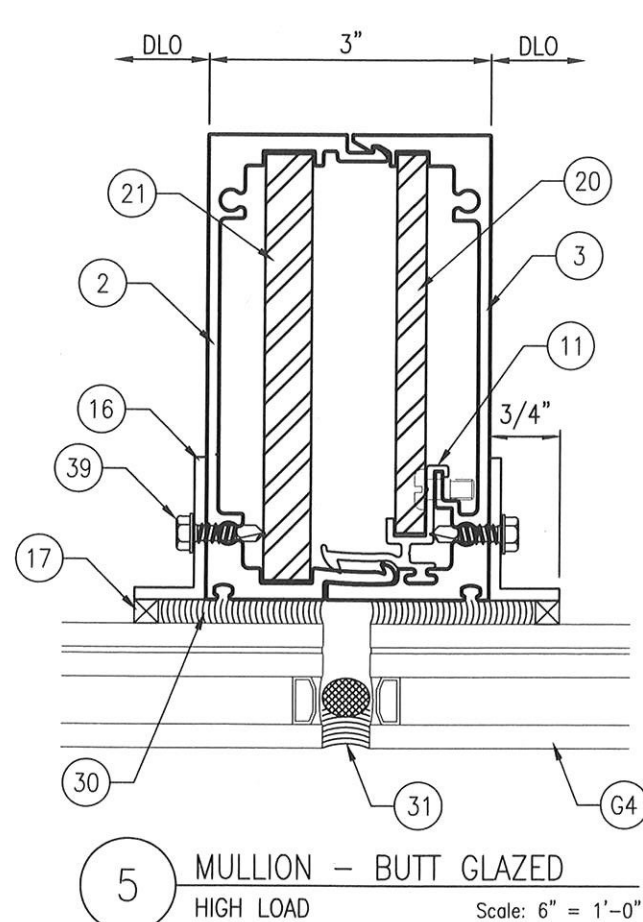
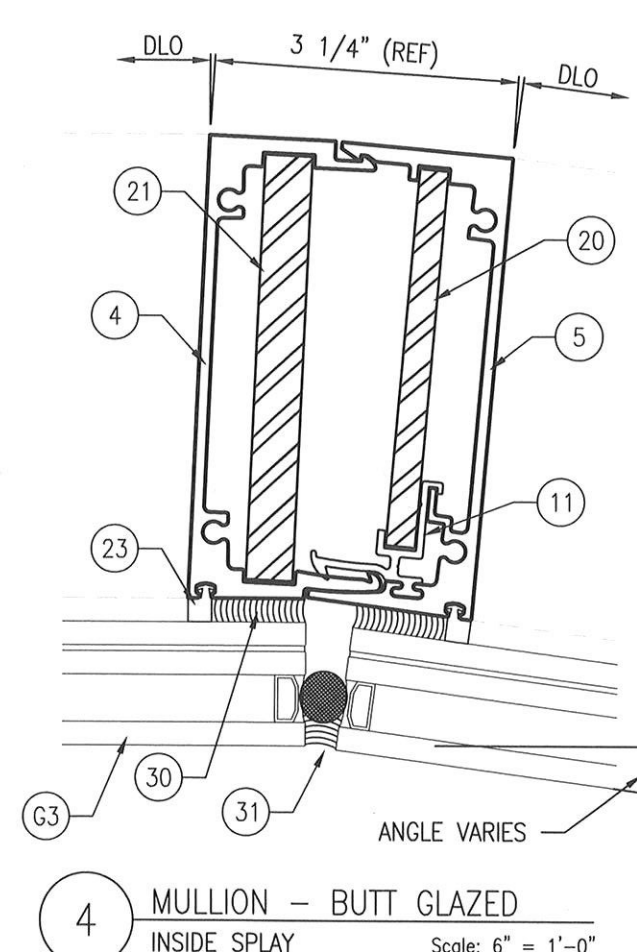
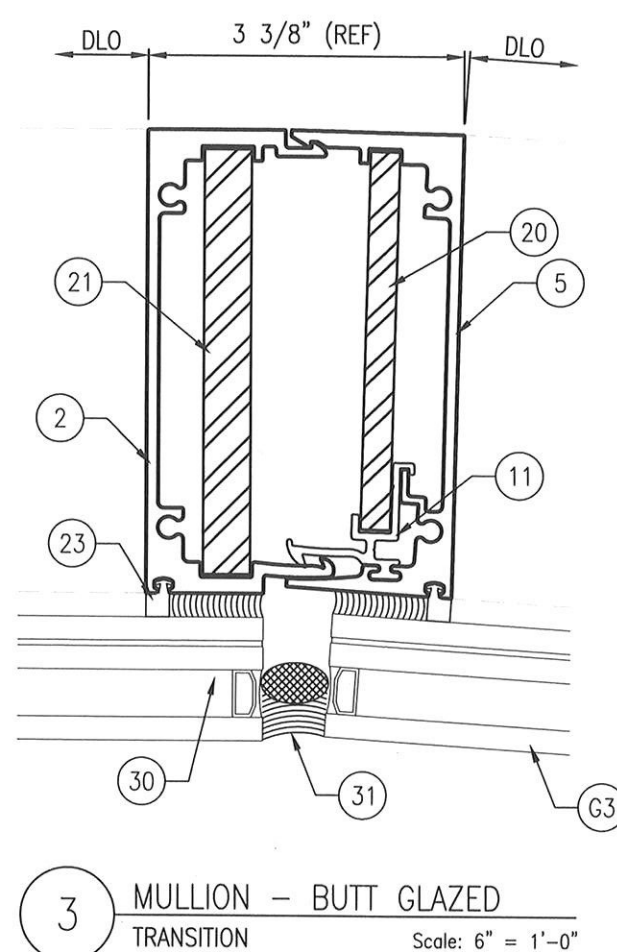
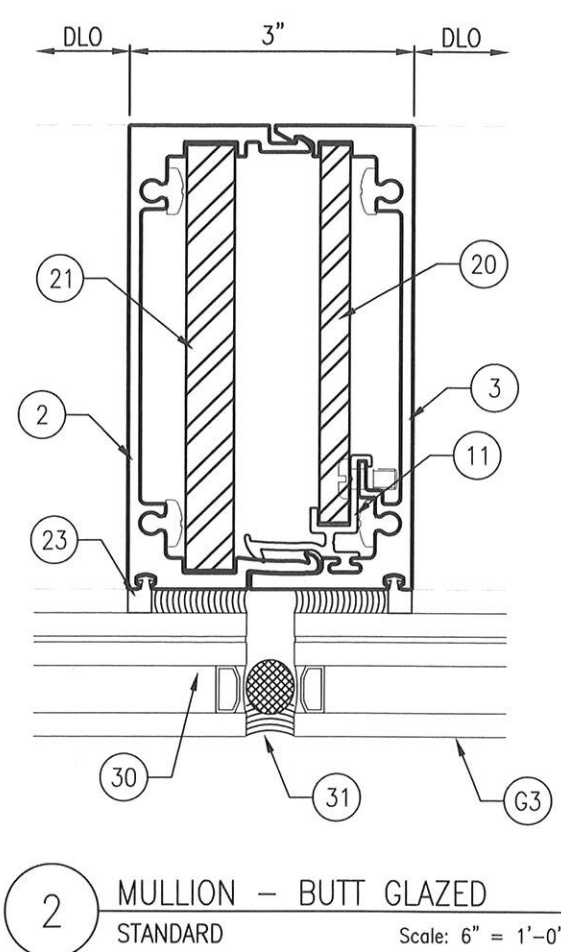
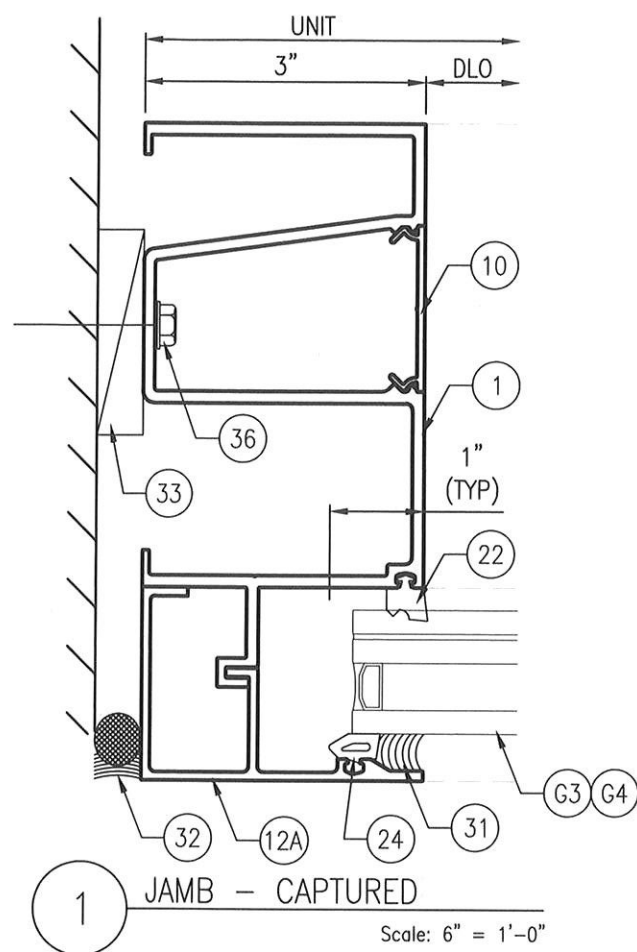
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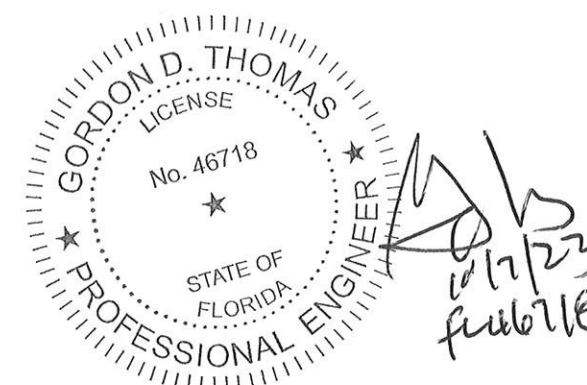
CHK BY:

DRAWING NO.:
FL24544.6

SHEET: 4 OF 8



41 ALL FRAME ASSEMBLY SCREWS TO BE
#14 X 1-1/2" PH S/S SMS



10/12/23
frid 6/18

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TAMPA, FLORIDA 33634
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FAX: (813) 886-0666



PRODUCT: SERIES 650WS WINDOW WALL

PART OR ASSEMBLY:

ASSEMBLY.

VERTICAL DETAILS

1-5/16" GLAZING

[illegible]

DATE: 9/13/23

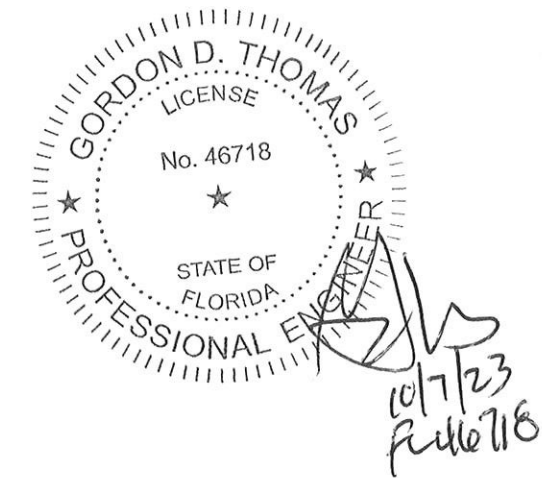
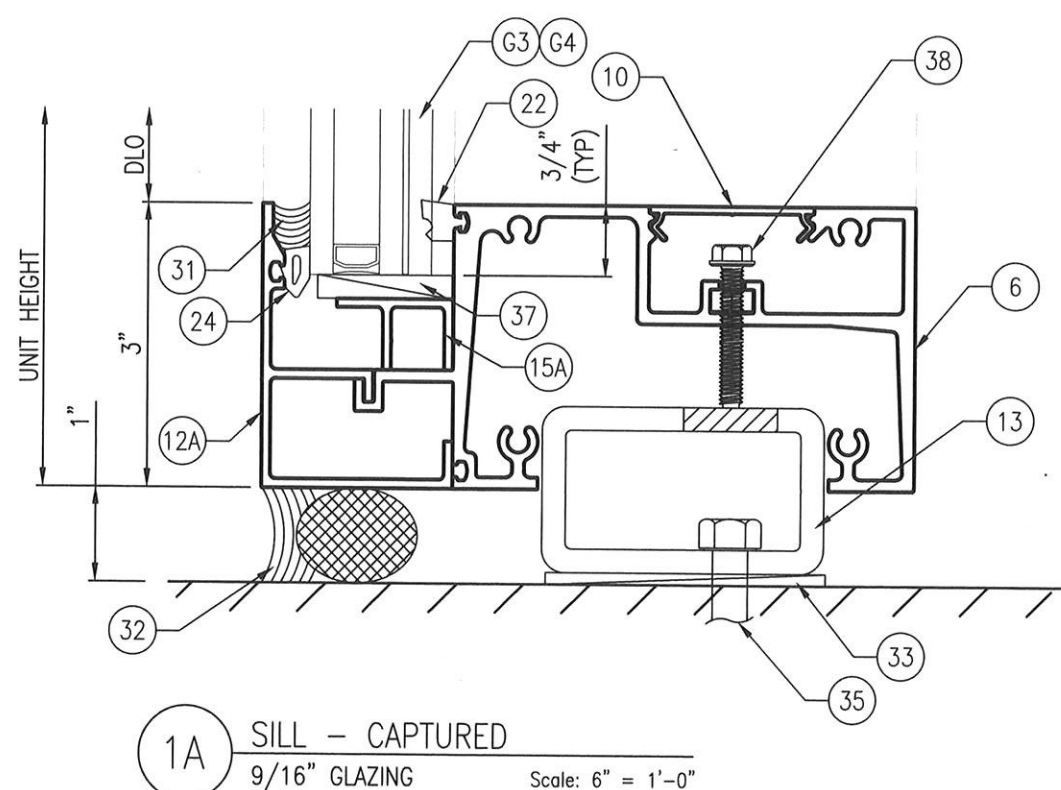
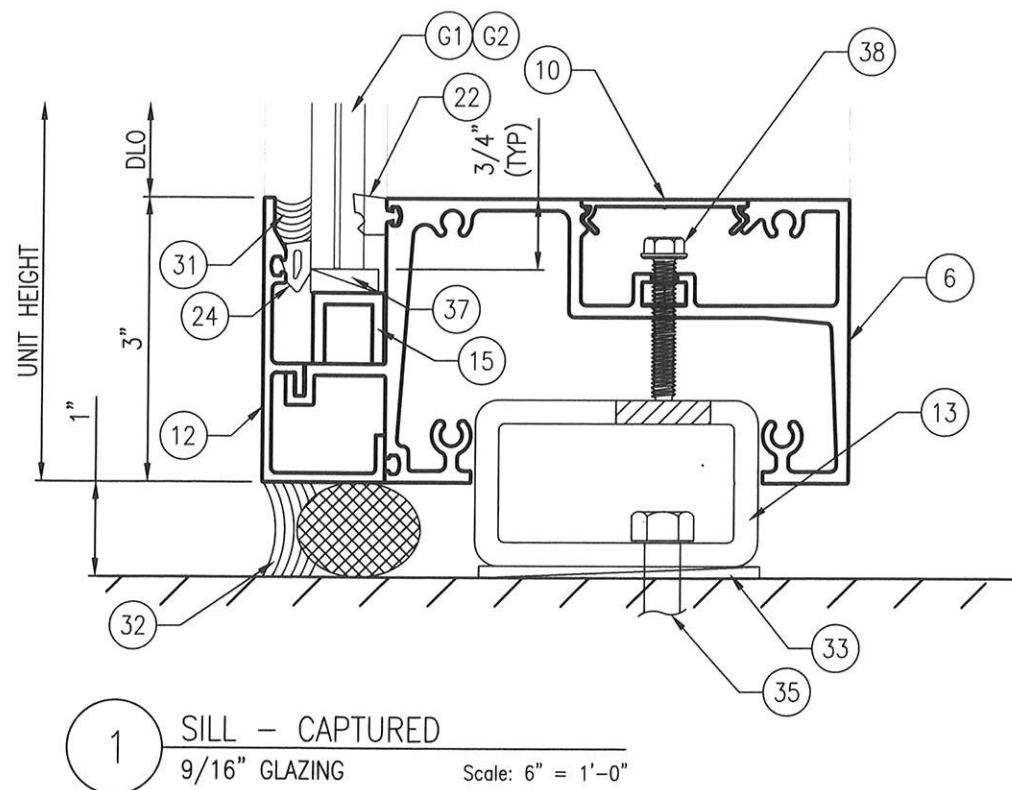
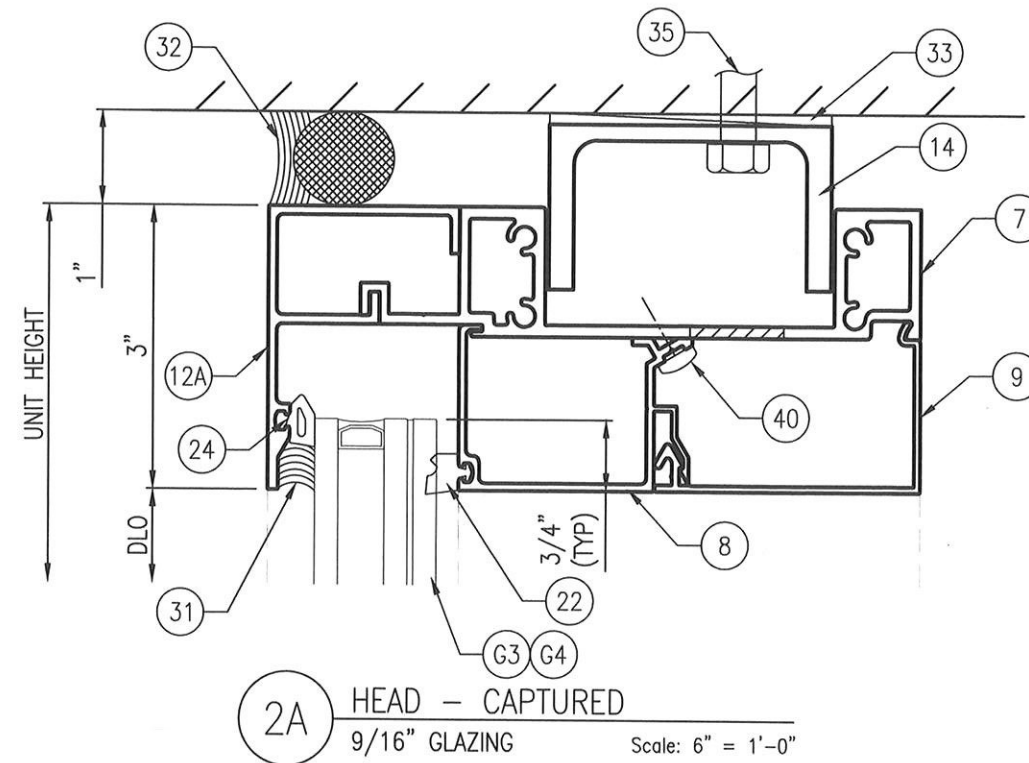
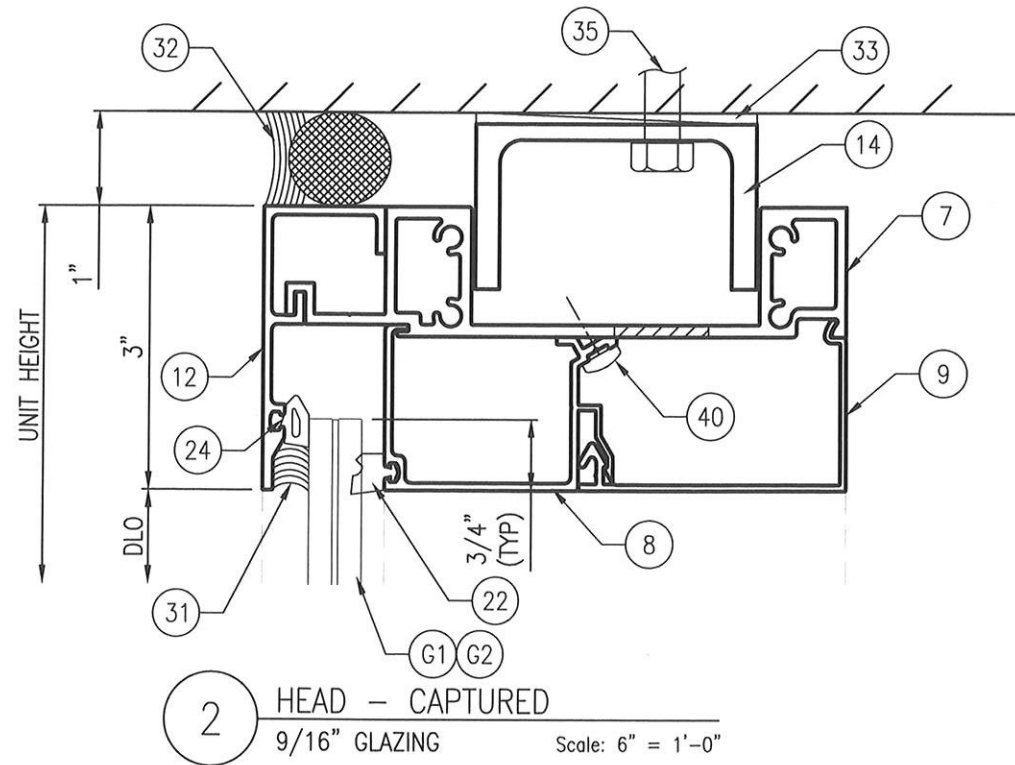
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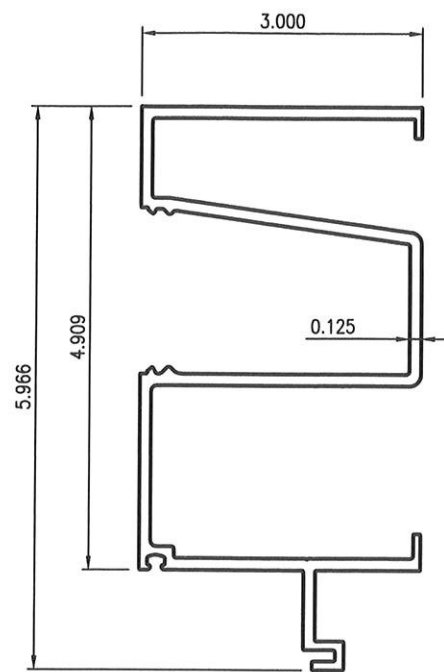
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FL24544.6

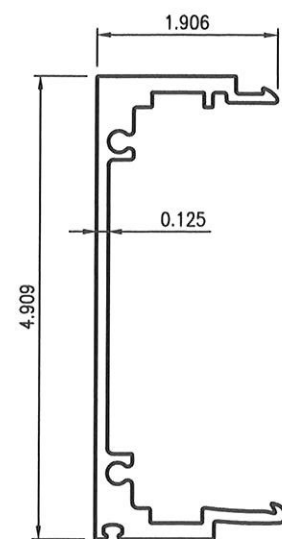
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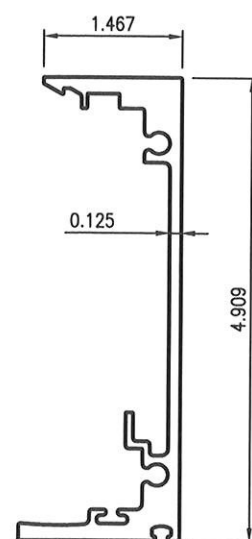
5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666			
PRODUCT: SERIES 650WS WINDOW WALL		PART OR ASSEMBLY: HORIZONTAL DETAILS	
NO.	DATE	DESCRIPTION	BY
REVISIONS			
DATE: 9/13/23			
SCALE: AS INDICATED			
DWG. BY: ECV			
CHK BY:			
DRAWING NO.: FL24544.6			
SHEET: 6 OF 8			



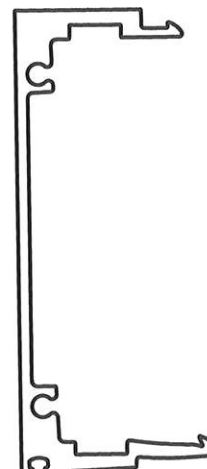
1 SUN-6513
JAMB



2 SUN-6529
SPLIT MULL



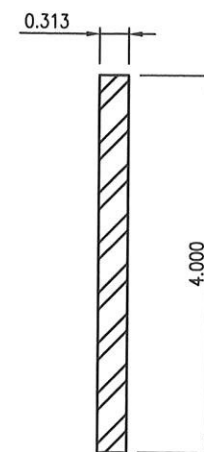
3 SUN-6530
SPLIT MULL



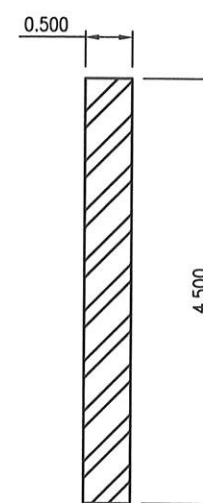
4 SUN-6569
SPLIT MULL (INSIDE SPLAY)



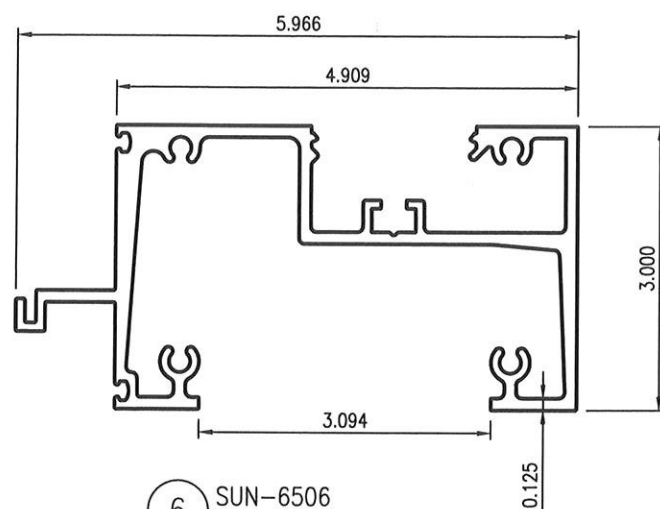
5 SUN-6570
SPLIT MULL (INSIDE SPLAY)



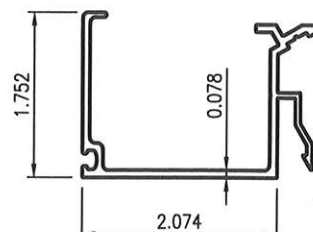
20 4" X 5/16" BAR
STEEL REINFORCING



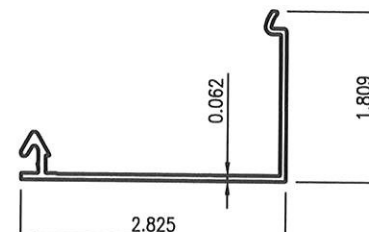
21 4-1/2" X 1/2" BAR
STEEL REINFORCING



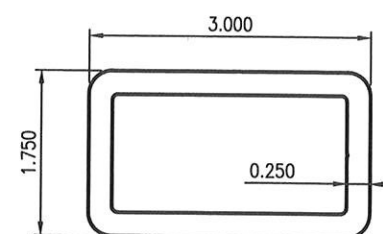
6 SUN-6506
SILL



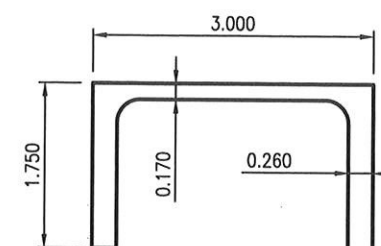
8 SUN-6508
GLAZING BEAD 6063-T6



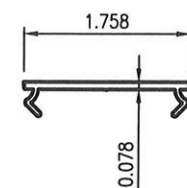
9 SUN-6540
FILLER 6063-T6



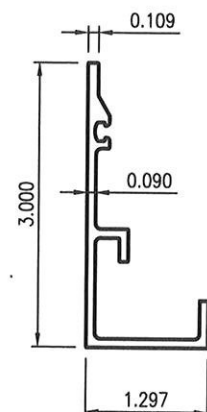
13 SUN-6501
STARTER TUBE 6005-T5



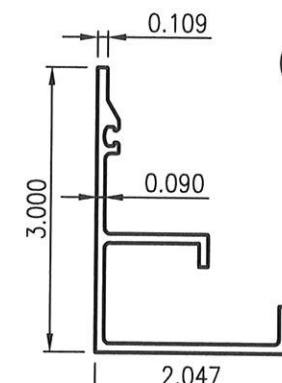
14 C3 X 1.75 X .170/.260
ANCHOR CHANNEL 6005-T5



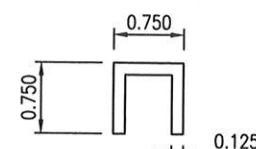
10 SUN-402
POCKET FILLER 6063-T6



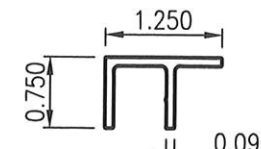
12 SUN-6503
FACE CAP (9/16") 6063-T6



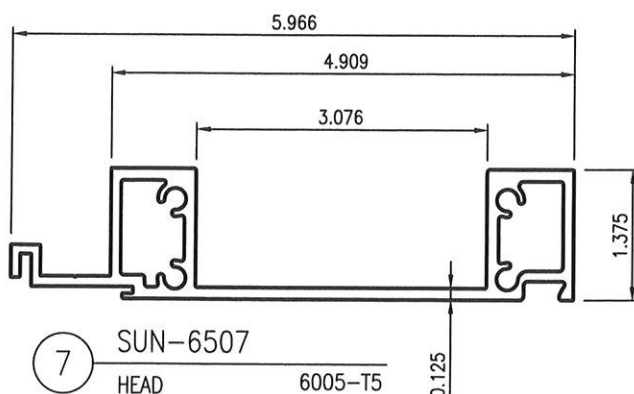
12A SUN-6536
FACE CAP (1-5/16") 6063-T6



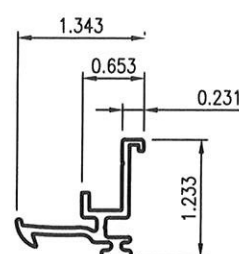
15 ALUMINUM CHANNEL
SETTING CHAIR 6063-T5



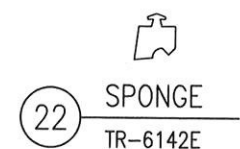
15A SUN-422
SETTING CHAIR 6063-T6



7 SUN-6507
HEAD 6005-T5



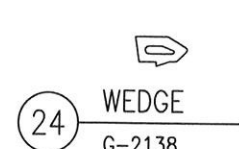
11 SUN-6502
SPRING CLIP 6063-T6



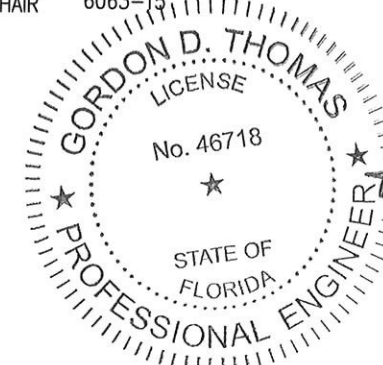
22 SPONGE
TR-6142E



23 CAULK STOP
TR-10681S



24 WEDGE
G-2138



10/7/23
fuk6718

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TAMPA, FLORIDA 33634
PHONE: (813) 889-0718
FAX: (813) 886-0666



PRODUCT:
SERIES 650WS WINDOW WALL

PART OR ASSEMBLY:
COMPONENTS

NO	DATE	DESCRIPTION	BY

DATE: 9/13/23

SCALE: AS INDICATED

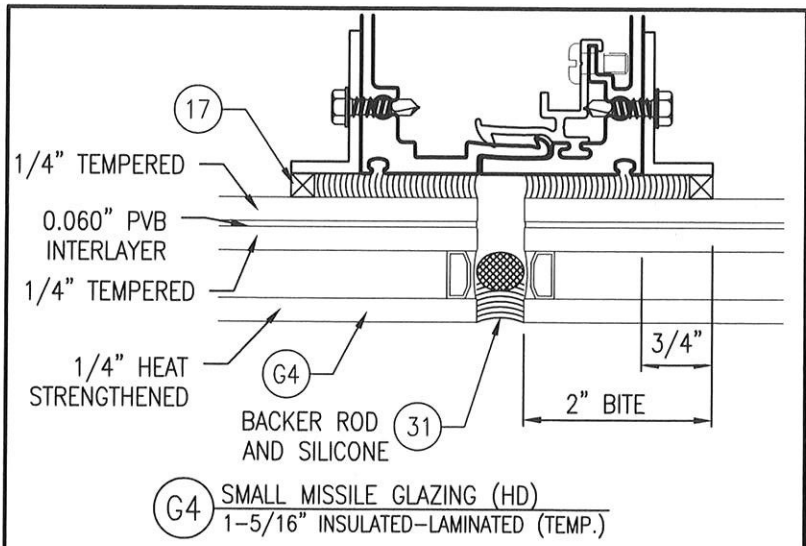
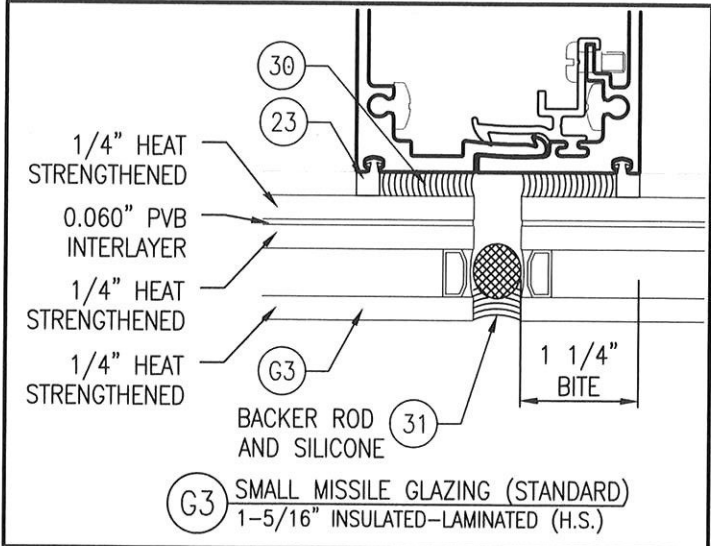
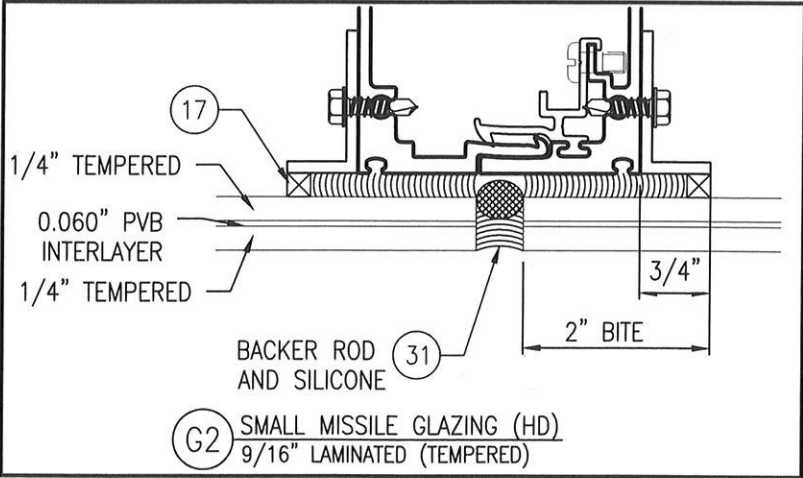
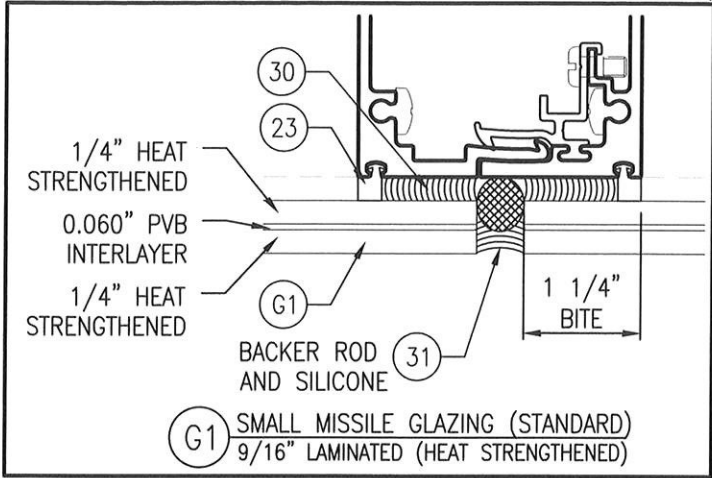
DWG. BY: ECV

CHK BY:

DRAWING NO.:
FL24544.6

SHEET: 7 OF 8

ANCHOR SCHEDULE		
PRIMARY HEAD AND SILL ANCHORS (BOM ID: 35)		
SUBSTRATE	ANCHOR TYPE	DESCRIPTION
CONCRETE	A	3/8" Powers Wedge Bolt with 2-3/8" min embedment, 3-3/4" minimum edge distance. Minimum clip length 12". Concrete is 4,000 PSI minimum conforming to ACI 301.
STEEL	B	3/8" diameter self drilling screws or bolts. Steel with 0.125" minimum wall thickness conforming to ASTM A500 Grade B, Fy=46,000 PSI & Fu=58,000 PSI or ASTM A653, Fy=33,000 PSI, Fu= 45,000 PSI. Minimum embedment of 3 threads through steel substrate, with 1" min. edge distance.
JAMB ANCHORS (BOM ID: 36)		
CONCRETE	C	5/16" diameter Ultracon by Elco® concrete anchor with 1-3/4" min. embedment, 2-3/16" minimum edge distance. Minimum clip length 8". Concrete is 4,000 PSI minimum conforming to ACI 301.
STEEL	D	5/16" diameter self drilling screws or bolts. Steel with 0.125" minimum wall thickness conforming to ASTM A500 Grade B, Fy=46,000 PSI & Fu=58,000 PSI or ASTM A653, Fy=33,000 PSI, Fu= 45,000 PSI. Minimum embedment of 3 threads through steel substrate, with 1" min. edge distance.



BILL OF MATERIALS					
ITEM #	PART #	DESCRIPTION	MATERIAL	MANUFACTURER	NOTES
1	SUN-6513	JAMB	6005-T5	SUN METALS	
2	SUN-6529	SPLIT MULLION - MALE	6005-T5	SUN METALS	
3	SUN-6530	SPLIT MULLION - FEMALE	6005-T5	SUN METALS	
4	SUN-6569	SPLIT MULLION - MALE (INSIDE SPLAY)	6005-T5	SUN METALS	
5	SUN-6570	SPLIT MULLION - FEMALE (INSIDE SPLAY)	6005-T5	SUN METALS	
6	SUN-6506	SILL	6005-T5	SUN METALS	
7	SUN-6507	HEAD ANCHOR CHANNEL	6005-T5	SUN METALS	
8	SUN-6508	GLAZING BEAD	6063-T6	SUN METALS	
9	SUN-6540	HORIZONTAL FILLER TRIM	6063-T6	SUN METALS	
10	SUN-402	POCKET FILLER	6063-T6	SUN METALS	
11	SUN-6502	SPRING CLIP	6063-T6	SUN METALS	
12	SUN-6503	PERIMETER FACE CAP (9/16" GLAZING)	6063-T6	SUN METALS	
12A	SUN-6536	PERIMETER FACE CAP (1-5/16" GLAZING)	6063-T6	SUN METALS	
13	SUN-6501	SILL ANCHOR STARTER TUBE	6005-T5	SUN METALS	12" LONG ADJACENT TO MULLIONS
14	C3X1.75	HEAD ANCHOR CHANNEL (C3 X 1.75 X 0.170/.0260)	6005-T5	SUN METALS	12" LONG ADJACENT TO MULLIONS
15		SETTING CHAIR (9/16" GLAZING)	6063-T5	VARIES	
15A	SUN-422	SETTING CHAIR (1-5/16" GLAZING)	6063-T6	VARIES	
16		1-1/2"X3/4"X1/8" ALUM ANGLE	6063-T5	VARIES	
17		1/4"X1/4" GLAZING TAPE	NORTON	VARIES	
20		4" X 5/16" STEEL BAR	A36	VARIES	REF DETAILED ELEVATIONS FOR LENGTH
21		4-1/2" X 1/2" STEEL BAR	A36	VARIES	REF DETAILED ELEVATIONS FOR LENGTH
22	TR-6142E	SPONGE	EPDM	TREMCO	
23	TR-10681S	CAULK STOP	SILICONE	TREMCO	
24	G-2138	WEDGE	SILICONE	GRP	
30	DOW 983	STRUCTURAL SILICONE	SILICONE	DOW CORNING	
31	DOW 795	PERIMETER CAP BEAD WEATHERSEAL	SILICONE	DOW CORNING	
32		PERIMETER WEATHERSEAL	SILICONE	DOW CORNING	DOW 790, 791, 795 OR APPROVED EQ.
33		SHIM	POLYSTYRENE	VARIES	FULL BEARING HIGH IMPACT POLYSTYRENE
34	SM5504	SEAM SEALER		SCHNEE MOREHEAD	
35		HEAD AND SILL PERIMETER ANCHORS (A & B)	VARIES	VARIES	REF DETAILED ELEVATIONS FOR ANCHOR SPACING AND ANCHOR SCHEDULE THIS SHEET
36		JAMB ANCHORS (C & D)	VARIES	VARIES	REF DETAILED ELEVATIONS FOR ANCHOR SPACING AND ANCHOR SCHEDULE THIS SHEET
37		SETTING BLOCK (4" LONG AT 1/4 PTS)	SILICONE	VARIES	
38		1/4" TEMPORARY LEVELING SCREW	ST STL	VARIES	
39		#12 TEK (12" O/C)	STEEL	VARIES	
40		#12 PH SMS	ST STL	VARIES	
41		#14 X 1-1/2" PH S/S SMS	ST STL	VARIES	FRAME ASSEMBLY SCREWS
G1		9/16" LAMINATED GLASS (SMI-HS)		VARIES	1/4" HS /0.060 PVB / 1/4" HS
G2		9/16" LAMINATED GLASS (SMI-TEMP)		VARIES	1/4" TEMP /0.060 PVB / 1/4" TEMP
G3		1-5/16" INSULATED LAMINATED GLASS (SMI-HS)		VARIES	1/4" HS - 1/2" AS - 1/4" HS /0.060 PVB / 1/4" HS
G4		1-5/16" INSULATED LAMINATED GLASS (SMI-TEMP)		VARIES	1/4" HS - 1/2" AS - 1/4" TEMP /0.060 PVB / 1/4" TEMP

5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666	
PRODUCT: SERIES 650WS WINDOW WALL	PART OR ASSEMBLY: BILL OF MATERIALS, GLAZING AND ANCHOR SCHEDULE
DATE: 9/13/23	SCALE: AS INDICATED
DWG. BY: ECV	CHK BY:
DRAWING NO.: FL24544.6	SHEET: 8 OF 8