

SERIES 450WW

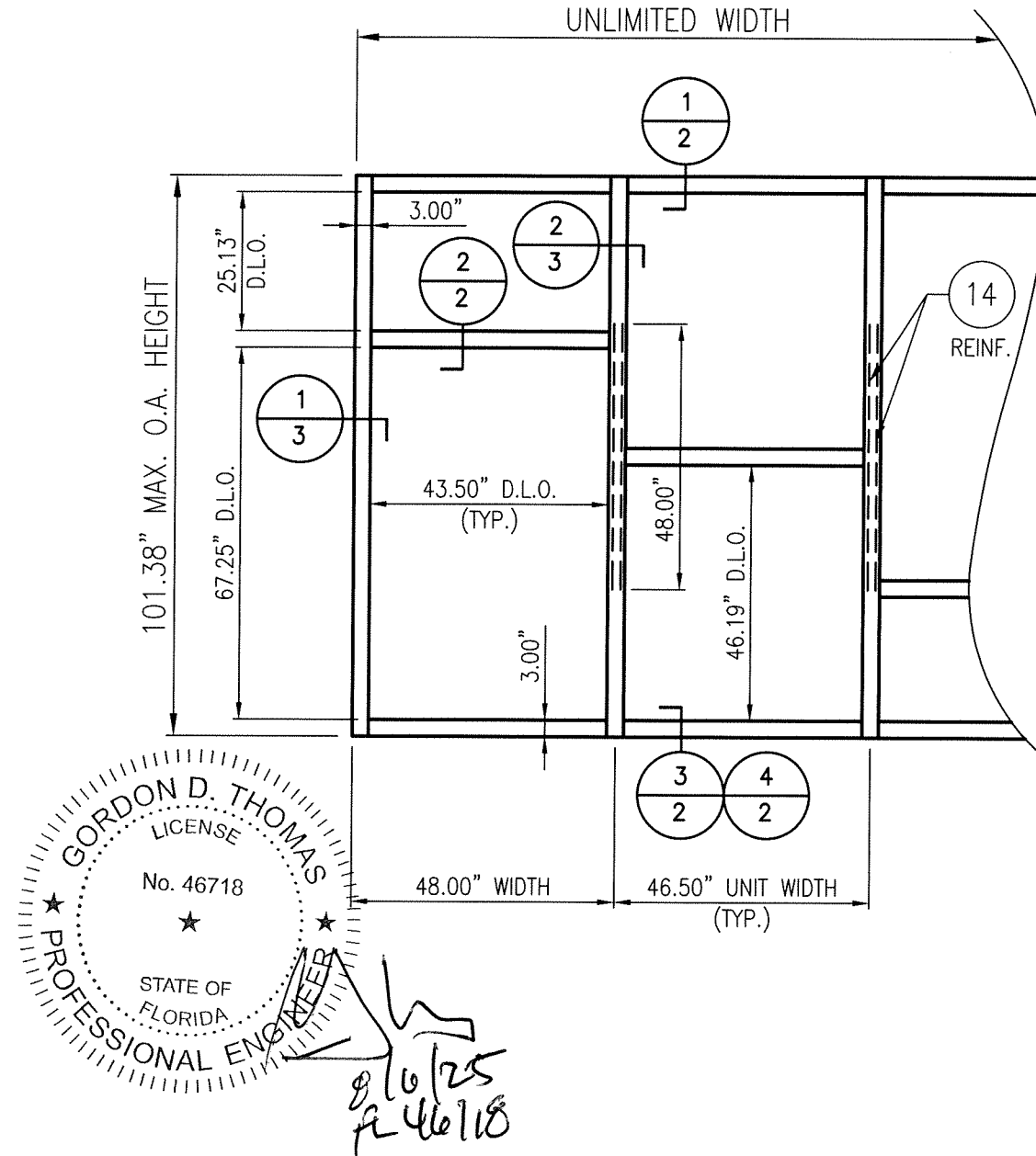
ALUMINUM FIXED WINDOW WALL

"NON-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" this product is required to be protected with an impact resistant covering that complies with Section 1626 of the FBC.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection this product is required to be protected with an impact resistant covering that complies with Section 1609.1.2 of the FBC.
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". WATER INFILTRATION: 20 PSF
7. Gaskets and setting blocks shall comply with Section 2411.3.4 of the FBC.
8. Aluminum components, including fasteners, shall meet the requirements of FBC Section 2003.

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5	SILL ANCHORING ELEVATIONS
6	COMPONENTS
7	BILL OF MATERIAL, GLAZING DETAILS AND COMPONENTS



MAX. OPENING HEIGHT	MAX. D.L.O. DIMENSION	GLASS TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
101.38"	43.50" x 46.19"	G1	+115.0	-115.0
	43.50" x 67.25"	G2	+100.0	-100.0

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

PRODUCT:
SUN METALS
ALUMINUM WINDOW WALL

PART OR ASSEMBLY:
TYPICAL ELEVATIONS, DESIGN
PRESSURES & GENERAL NOTES

4	7/14/25	UPDATE TO 8TH ED. (2023) FBC	ECV
3	9/21/20	UPDATE TO 7TH ED. (2020) FBC	JCB
2	2/01/19	UPDATE TO 6TH ED. (2017) FBC	ECV
1	2/17/15	UPDATE TO 5TH ED. (2014) FBC	LFS
NO	DATE	DESCRIPTION	BY
REVISIONS			

DATE: 8/23/12

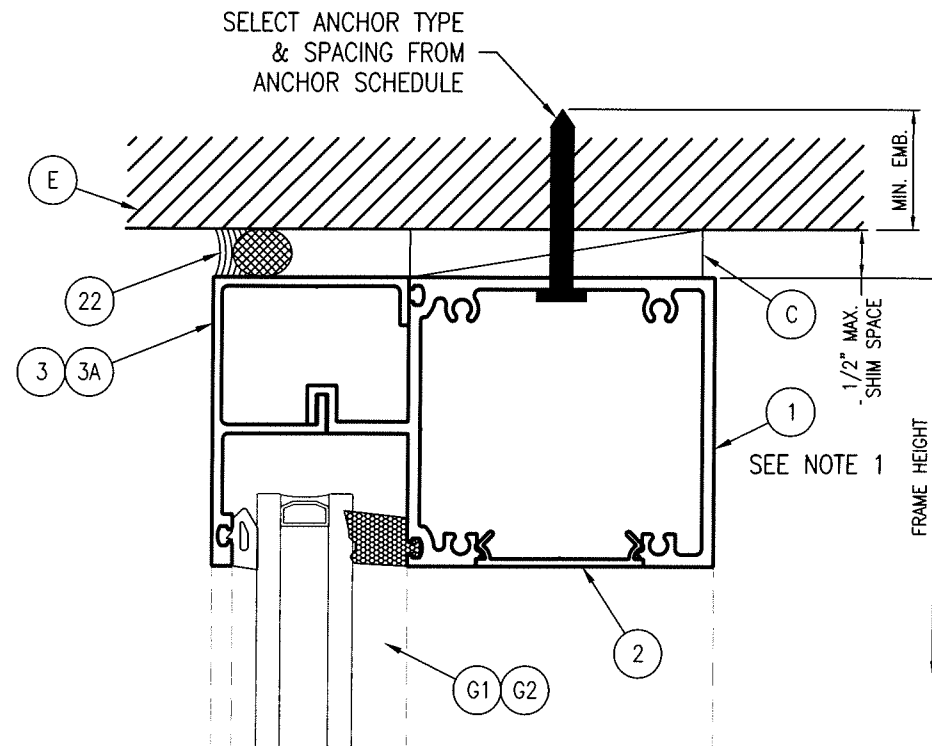
SCALE: N.T.S

DWG. BY: CO

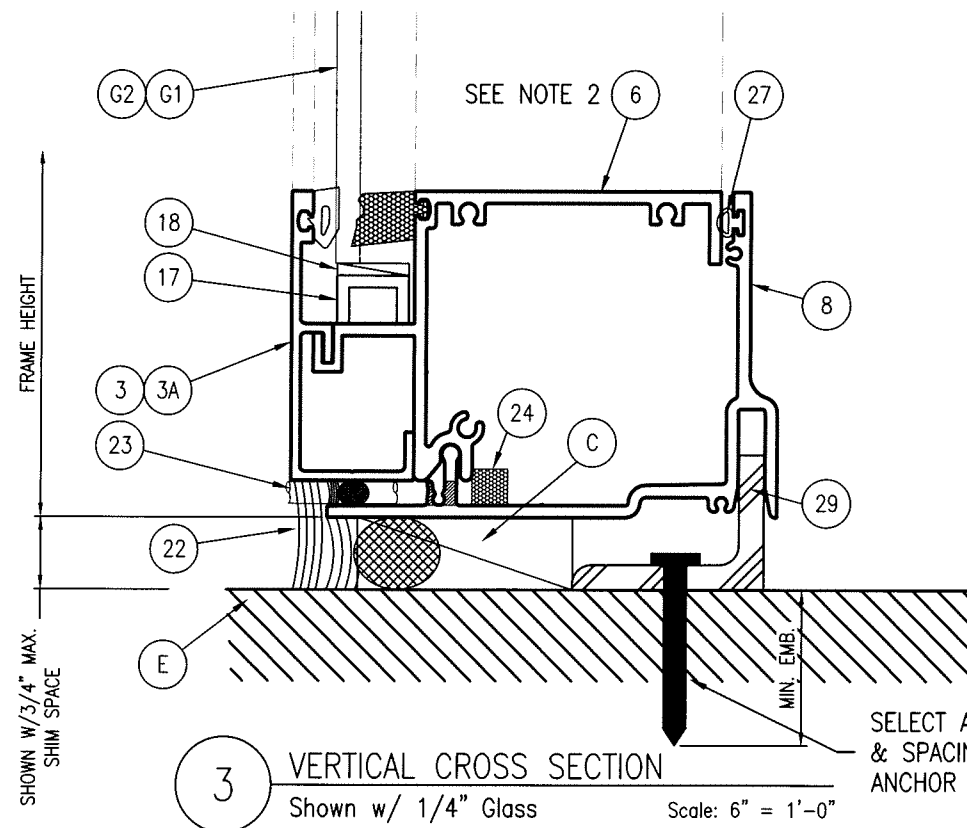
CHK BY: ECV

DRAWING NO.:
FL-15891.5

SHEET: **1** OF **7**



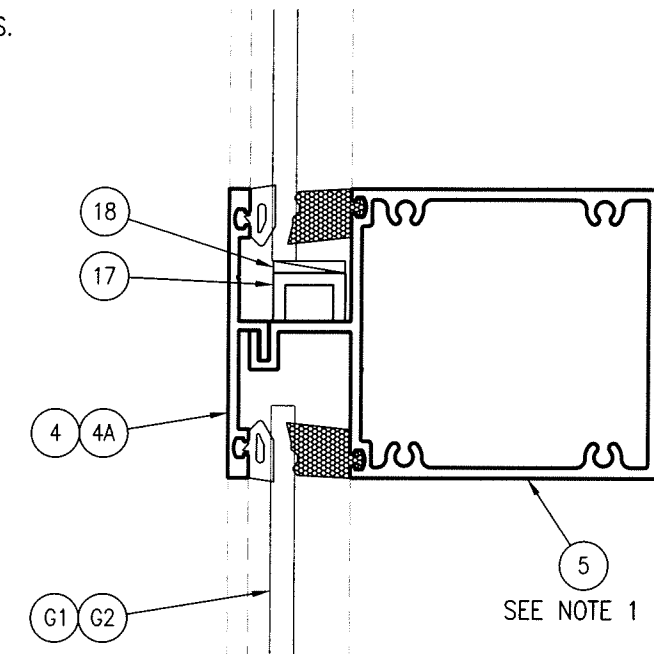
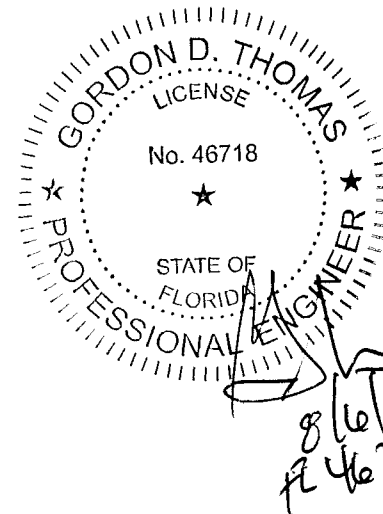
1 VERTICAL CROSS SECTION
Shown w/ 1" Glass Scale: 6" = 1'-0"



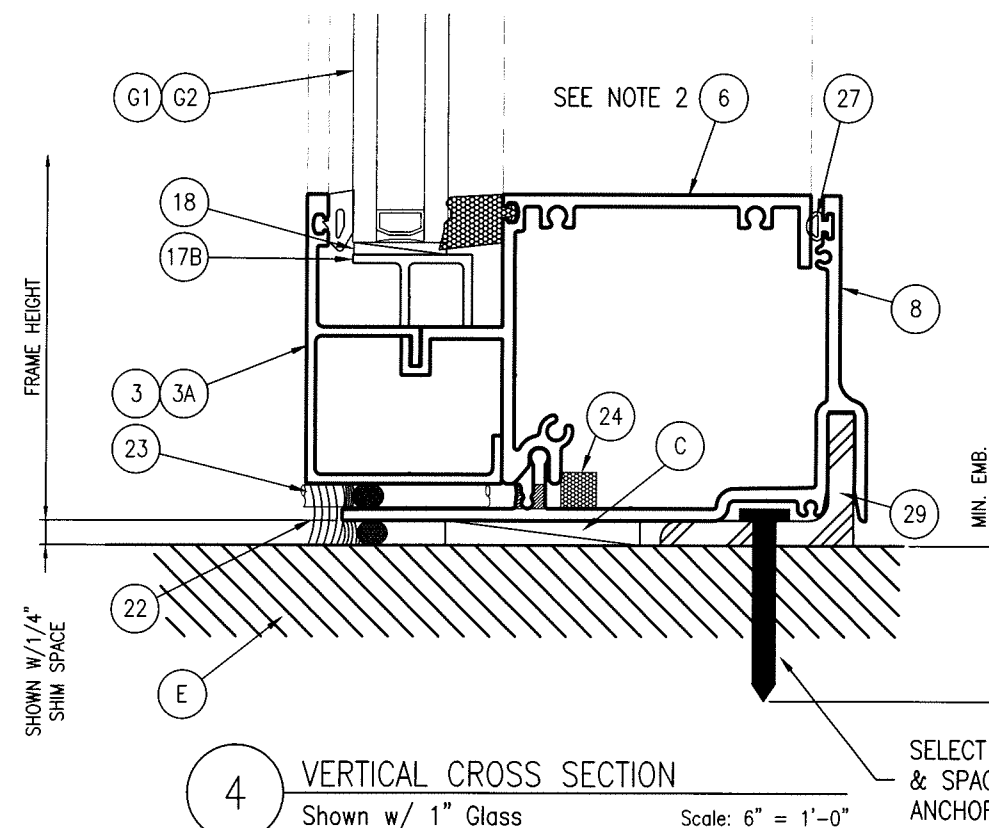
3 VERTICAL CROSS SECTION
Shown w/ 1/4" Glass Scale: 6" = 1'-0"

NOTES:

1. FRAME HEAD AND HORIZONTALS ARE ATTACHED TO JAMBS/MULLIONS AT EACH END WITH (4) #12 x 1-1/2" PH SMS.
2. FRAME SILL IS ATTACHED TO JAMBS/MULLIONS AT EACH END WITH (3) #12 x 1-1/2" PH SMS

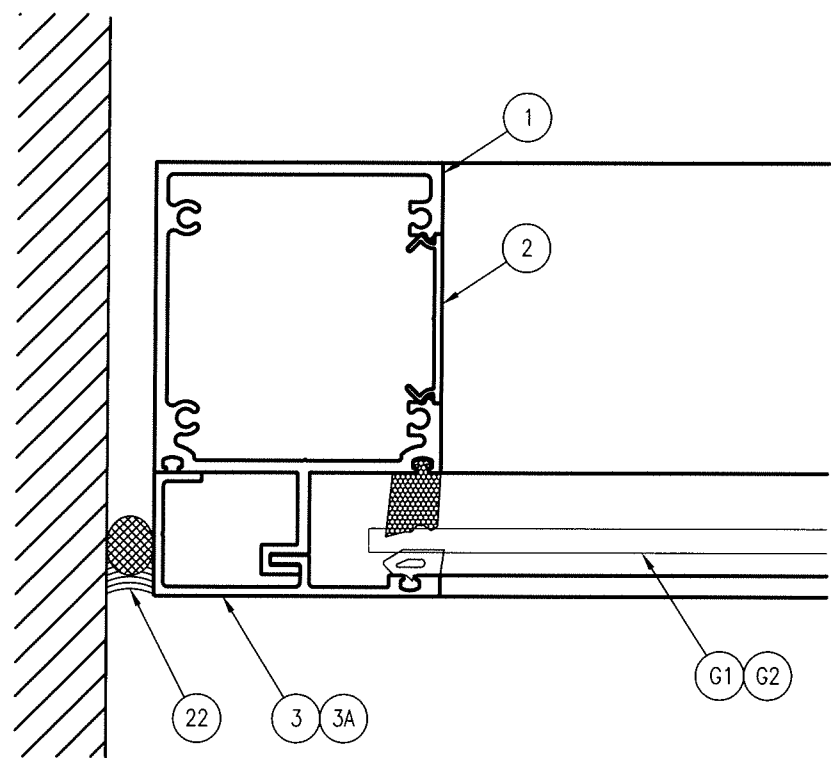


2 VERTICAL CROSS SECTION
Shown w/ 1/4" Glass Scale: 6" = 1'-0"

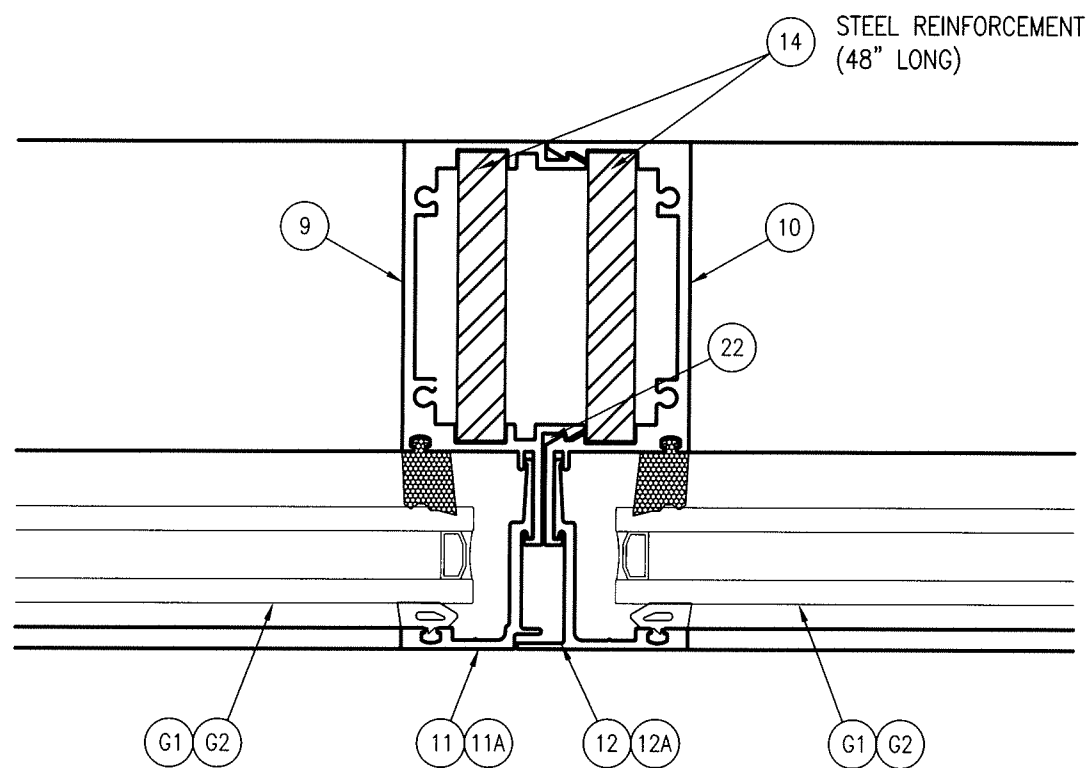


4 VERTICAL CROSS SECTION
Shown w/ 1" Glass Scale: 6" = 1'-0"

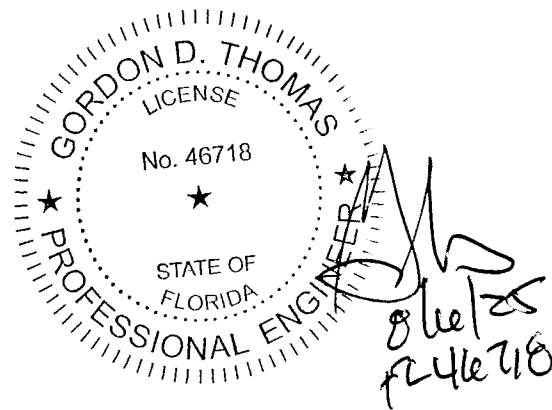
5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666		SUN METALS	
PRODUCT: SUN METALS ALUMINUM WINDOW WALL		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
4	7/14/25	UPDATE TO 8TH ED. (2023)	FBC ECV
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DWG. BY: CO			
CHK BY: ECV			
DRAWING NO.: FL-15891.5			
SHEET: 2 OF 7			



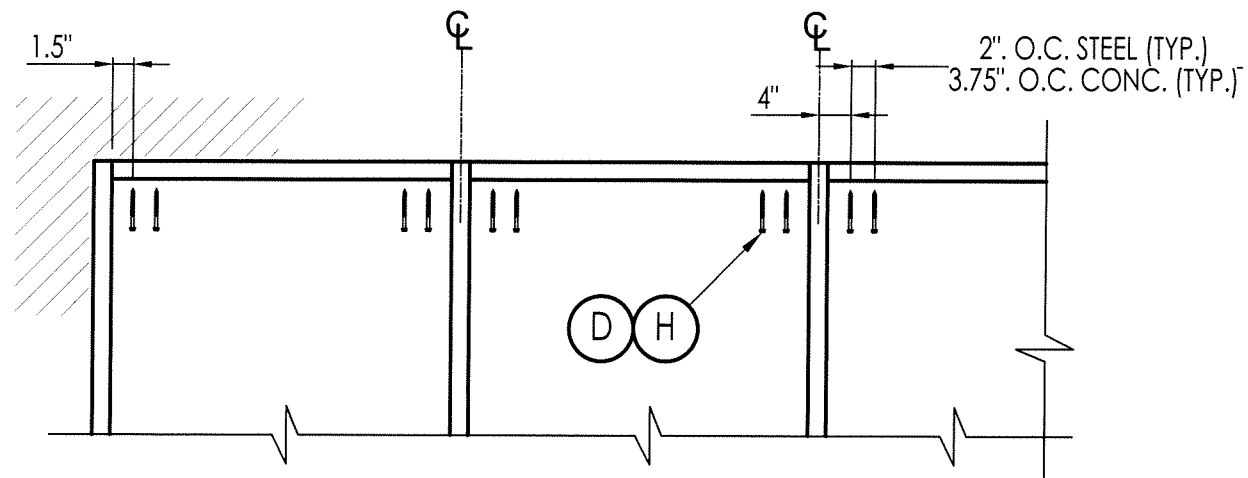
1 HORIZONTAL CROSS SECTION
Shown w/ 1/4" Glass Scale: 6" = 1'-0"



2 HORIZONTAL CROSS SECTION
Shown w/ 1" Glass Scale: 6" = 1'-0"



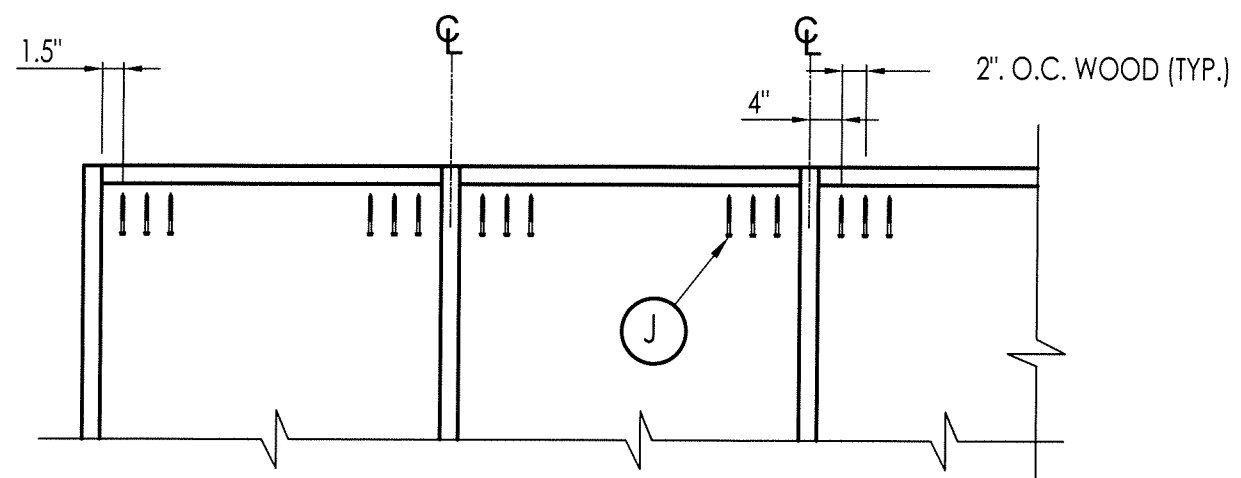
5008 TAMPA WEST BLVD. TAMPA, FLORIDA 33634 PHONE: (813) 889-0718 FAX: (813) 886-0666 SUN METALS		PRODUCT: SUN METALS ALUMINUM WINDOW WALL		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS	
4	7/14/25	UPDATE TO 8TH ED. (2023)	FBC	ECV	
3	9/21/20	UPDATE TO 7TH ED. (2020)	FBC	JCB	
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DATE: 8/23/12 SCALE: N.T.S DWG. BY: CO CHK BY: ECV DRAWING NO.: FL-15891.5 SHEET: 3 OF 7					



ANCHORING

(CONCRETE & STEEL)

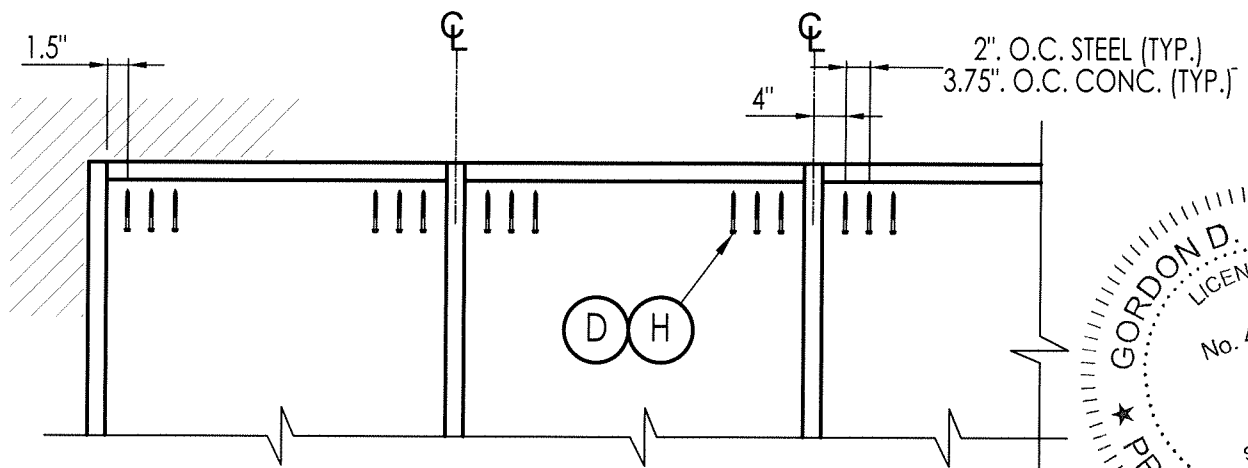
MAX. SHIM SPACE @ HEAD <= 1/4"
MAX. DP <= 75 PSF



ANCHORING

(WOOD)

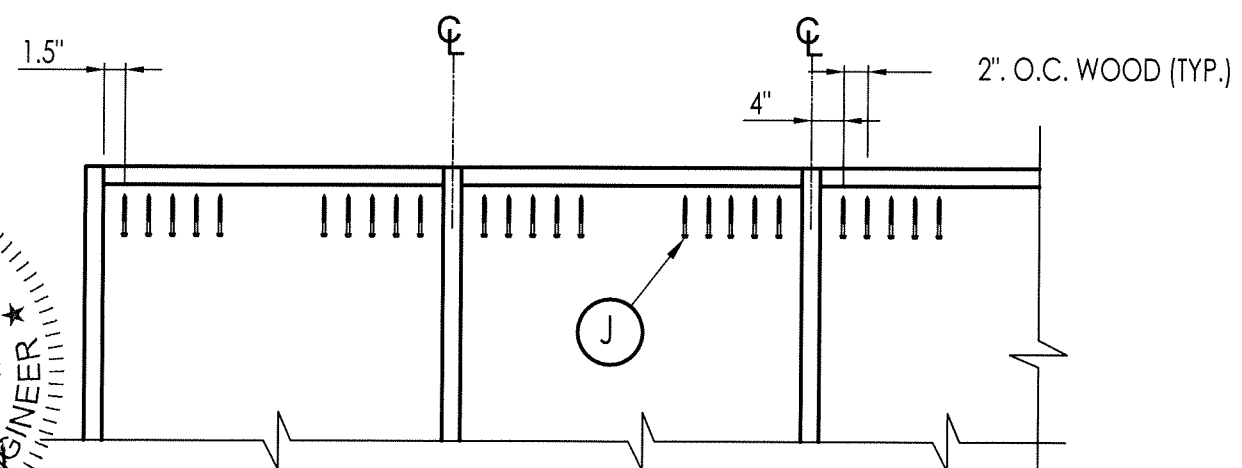
MAX. SHIM SPACE @ HEAD <= 1/4"
MAX. DP <= 75 PSF



ANCHORING

(CONCRETE & STEEL)

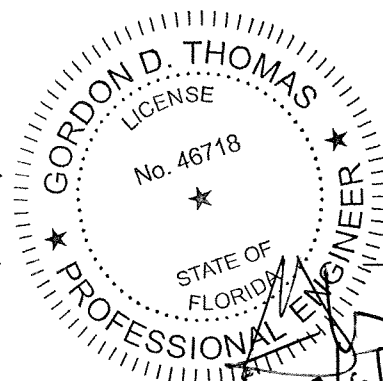
MAX. SHIM SPACE @ HEAD <= 1/4"
MAX. DP @ HEAD <= 115 PSF



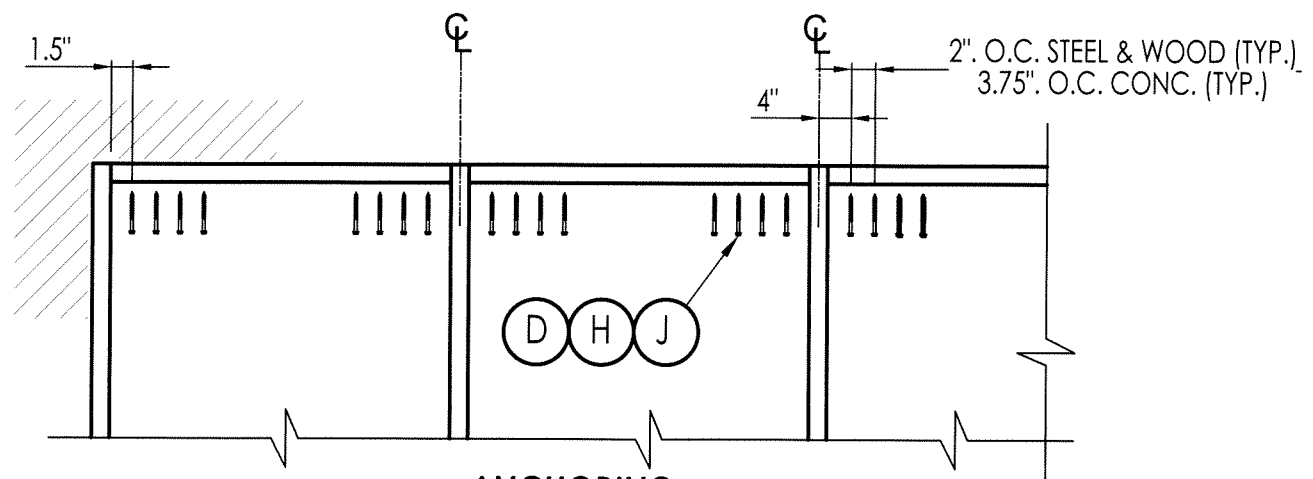
ANCHORING

(WOOD)

MAX. SHIM SPACE @ HEAD <= 1/4"
MAX. DP @ HEAD <= 115 PSF



*8/16/25
R. K. 2/16*



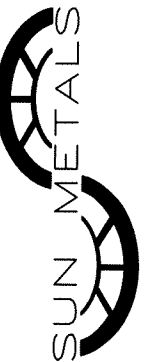
ANCHORING

(CONCRETE, STEEL & WOOD)

MAX. SHIM SPACE @ HEAD <= 1/2"
MAX. DP <= 75 PSF

SUBSTRATE	ANCHOR SCHEDULE	
CONCRETE	(D)	5/16"Ø HWH ITW Tapcon® XL concrete anchor with 1-3/4" min. embedment, 2-3/16" minimum edge distance and 3-3/4" (@ head) & 3-1/2" (@ sill) min. clearance to adjacent concrete anchors. Concrete is 3000 PSI minimum conforming to ACI 301.
STEEL	(H)	5/16"Ø HWH Hilti KWIK-FLEX self-drilling screws w/ minimum 3 threads protruding through the substrate. 1" min. edge distance and 1" min CL to CL spacing. Steel shall be ASTM A653 Grade 33 with Fy=33 KSI min, and Fu=45 KSI min. 0.06" min. thickness (16 ga. min.)
WOOD	(J)	#24 wood screw with 2-1/4" embedment, 1-1/2" minimum edge distance and 1-1/2" CL to CL minimum. 2x wood substrate SG >= 0.55

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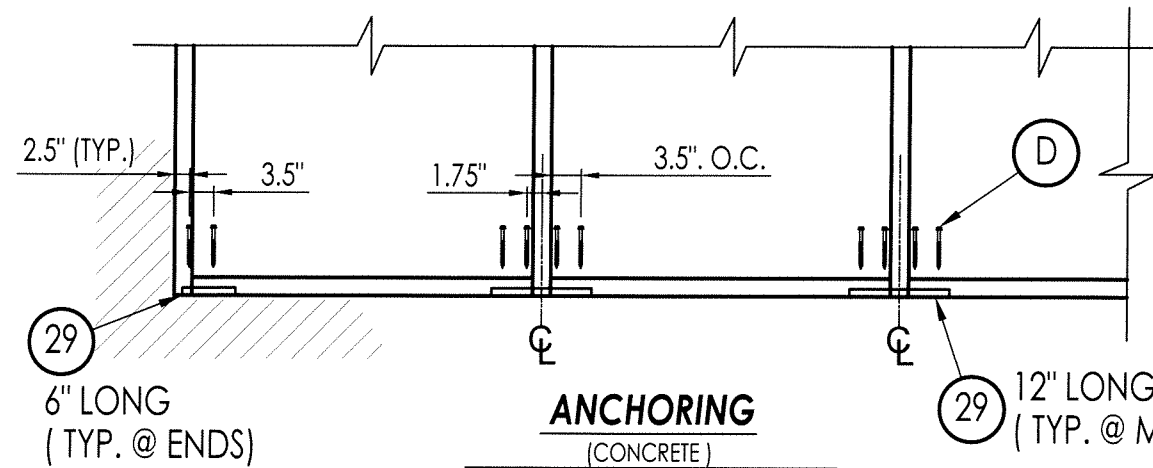


PRODUCT:
SUN METALS
ALUMINUM WINDOW WALL

PART OR ASSEMBLY:
HEAD ANCHORING ELEVATIONS
& ANCHORING SCHEDULE

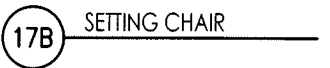
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SCALE: N.T.S
DWG. BY: CO
CHK BY: ECV
DRAWING NO.:
FL-15891.5
SHEET: **4** OF **7**



BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	1X BUCK SG >= 0.55	WOOD
B	2X BUCK SG >= 0.55	WOOD
C	MAX. SHIM SPACE (1/2" @ HEAD, 3/4" @ SILL)	-
D	5/16" x 2 3/4" HWH ITW TAPCON XL CONCRETE ANCHOR	STEEL
E	SUBSTRATE MATERIAL	-
H	5/16" HILTI KWIK-FLEX SELF DRILLING SMS	STEEL
J	#24 x 2 1/4" WOOD SCREW	STEEL
1	FRAME JAMB/ HEAD (SUN-413)	ALUMINUM
2	SNAP FILLER (SUN-402)	ALUMINUM
3	FACE CAP HEAD/ JAMB (SUN-403)	ALUMINUM
3A	FACE CAP HEAD/ JAMB (SUN-436)	ALUMINUM
4	FACE CAP RAIL (SUN-404)	ALUMINUM
4A	FACE CAP RAIL (SUN-437)	ALUMINUM
5	HORIZONTAL (SUN-405)	ALUMINUM
6	SILL (SUN-406)	ALUMINUM
7	ALUMINUM SPACER	ALUMINUM
8	STARTER SILL (SUN-453)	ALUMINUM
9	MALE SPLIT MULLION (SUN-409)	ALUMINUM
10	FEMALE SPLIT MULLION (SUN-410)	ALUMINUM
11	SPLIT MULLION FACE CAP (SUN-411)	ALUMINUM
11A	SPLIT MULLION FACE CAP (SUN-438)	ALUMINUM
12	SPLIT MULLION FACE CAP (SUN-412)	ALUMINUM
12A	SPLIT MULLION FACE CAP (SUN-439)	ALUMINUM
14	REINFORCEMENT STEEL BAR (1/2" x 3" STEEL BAR)	ASTMA36 STEEL
15	#12 x 1" SELF DRILLING SCREW	STEEL
17	SETTING CHAIR (1/2" x 3/4" x 1/8" U-CHANNEL)	ALUMINUM
17B	SETTING CHAIR (SUN-422)	ALUMINUM
18	1/8" SETTING BLOCK	EPDM
19	TAPE SEALANT	-
20	SEAM SEALANT	-
22	PERIMETER SILICONE SEALANT	SILICONE
23	WEEP STRAW	-
24	WEEP BAFFLE	-
26	EXTRUDED 70 DURO. WEDGE GASKET (TR-11419)	EPDM
27	EXTRUDED 60 DURO. BULB GASKET (TR-5783E)	EPDM
29	SILL ANCHOR BRACKET	ALUMINUM
30	NEOPRENE SPONGE GASKET (TR-6072N)	NEOPRENE

NOTE: ALL FRAME ALUMINUM IS 6063-T6



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			JCB
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SHEET: <u>1</u> OF <u>1</u>			