

GLOBAL PERFORMANCE WINDOWS INC.
DBA. EPYSLON USA

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) INSIDE OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

SMALL MISSILE IMPACT WINDOW SYSTEM USED AT ELEVATIONS ABOVE 30'-0" OF GRADE LEVEL.
FOR USED AT LEVEL BELOW 30' OF GRADE (LMI AREA), IMPACT SHUTTERS ARE REQUIRED.

THIS SYSTEM IS APPROVED FOR AIR AND WATER INFILTRATION.

CODE REQUIREMENTS FOR SAFEGUARD MUST BE OBSERVED.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DRAWING.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
FOR CONDITION DIFFERENT TO THIS APPROVAL, TO BE ENGINEERED SEPARATELY ON JOB BASES.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.

METAL STRUCTURES NOT BY GLOBAL PERFORMANCE WINDOWS INC. DBA. EPYSLON USA TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

ALUMINUM IN CONTACT WITH CONCRETE OR GROUT MATERIALS SHALL BE COATED WITH ALKALI RESISTANT COATING SUCH AS HEAVY BODIED BITUMINUOUS PAINT.

ULTIMATE LOAD OBTAINED FROM ASCE 7-16/ ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

INSTRUCTIONS:
USE CHARTS AS FOLLOWS.

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16/ ASCE 7-22 STANDARD.

STEP 2: SEE TYPICAL ELEVATIONS ON SHEET E1 TO E5 FOR MAXIMUM SIZES ALLOWED AND APPROVED DESIGN LOAD CAPACITIES. FOR DIAGONAL MULLION SEE CHART 1 & 2 FOR UNREINF. & REINF. OPTION AND ITS CAPACITIES.

STEP 3: SEE CHART 3 ON SHEET G1 FOR APPROVED GLASS TYPE AND DESIGN LOAD CAPACITIES BASED ON APPLICABLE WIND DURATION. SEE CHART 4 FOR SILICONE CAPACITY FOR SSG MULLION.

STEP 4: SEE SHEET A1 FOR ANCHOR OPTIONS. FOR ELEVATION ON SHEET E1, USE CHARTS ON SHEET A2 TO SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1.
FOR E2 TO E5, NUMBER OF ANCHORS REQUIRED SEE ELEVATIONS.

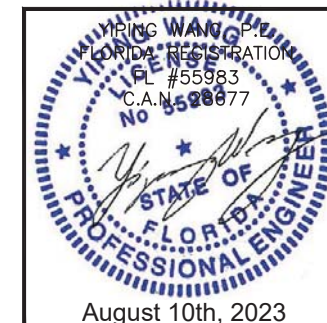
STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS	
D.L.O.W.- DAYLIGHT OPENING WIDTH	S.W- SILICONE WIDTH
D.L.O.H.- DAYLIGHT OPENING HEIGHT	G.B- GLASS BITE
F.H. - FRAME HEIGHT	
F.W. - FRAME WIDTH	
W - WITH	
W/O - WITHOUT	
O.C. - ON CENTER	
H.R. - HEAD RECEPTOR	
CANT. - CANTILEVER	

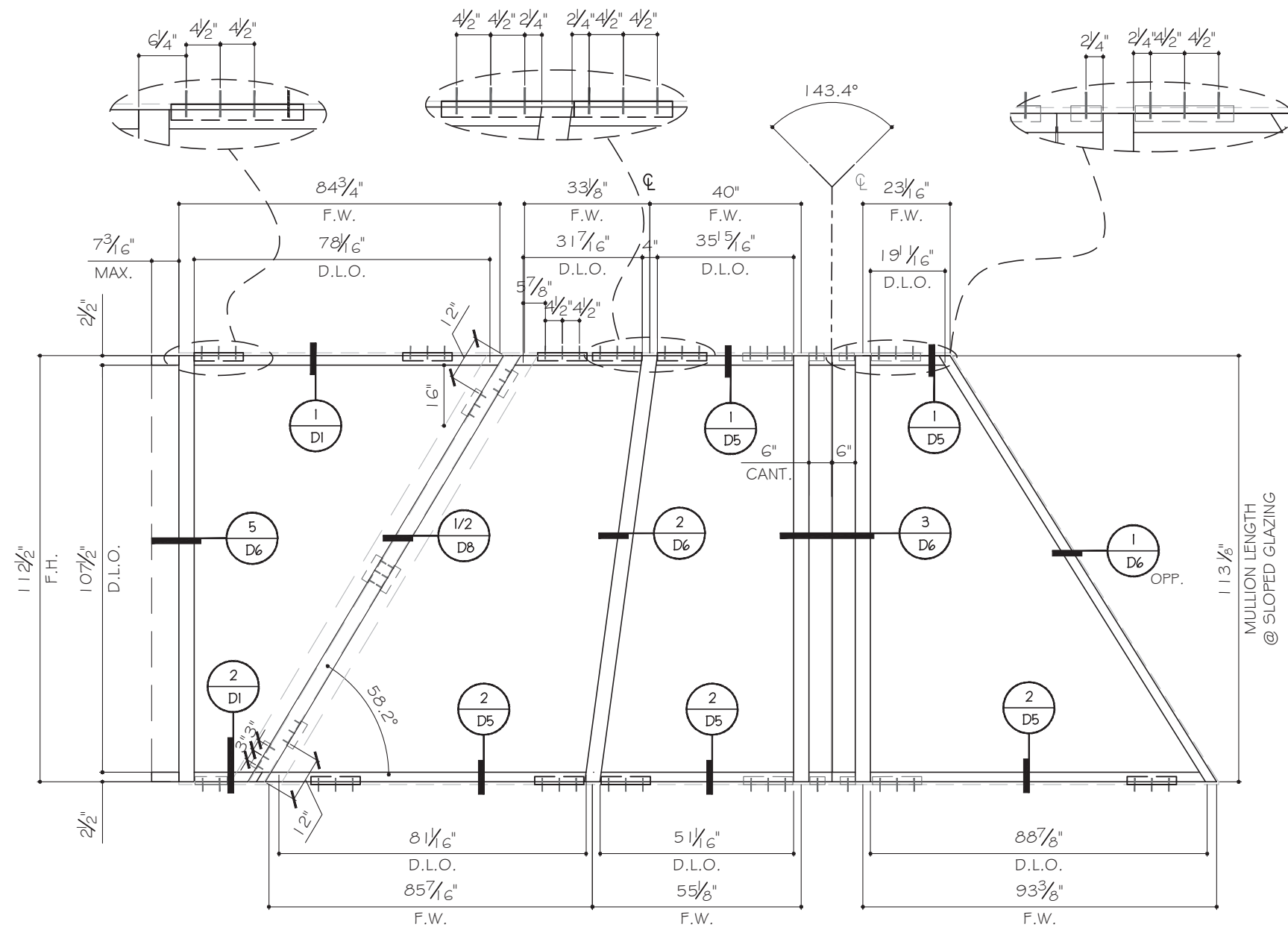
LIMITATIONS OF USE

- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
- E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

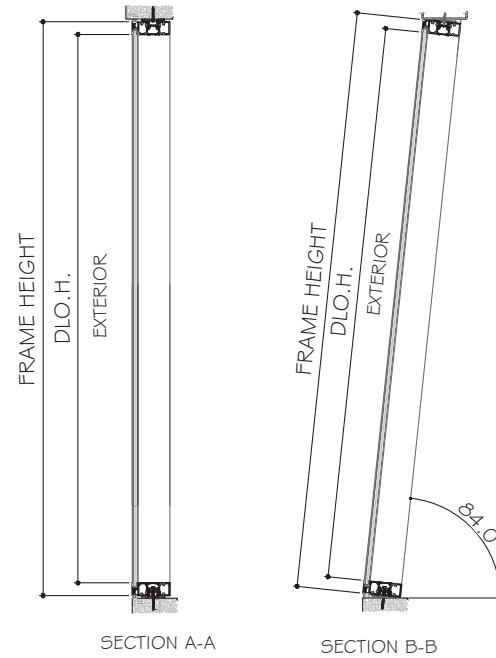
FLORIDA APPROVAL:
FL # 37048.2



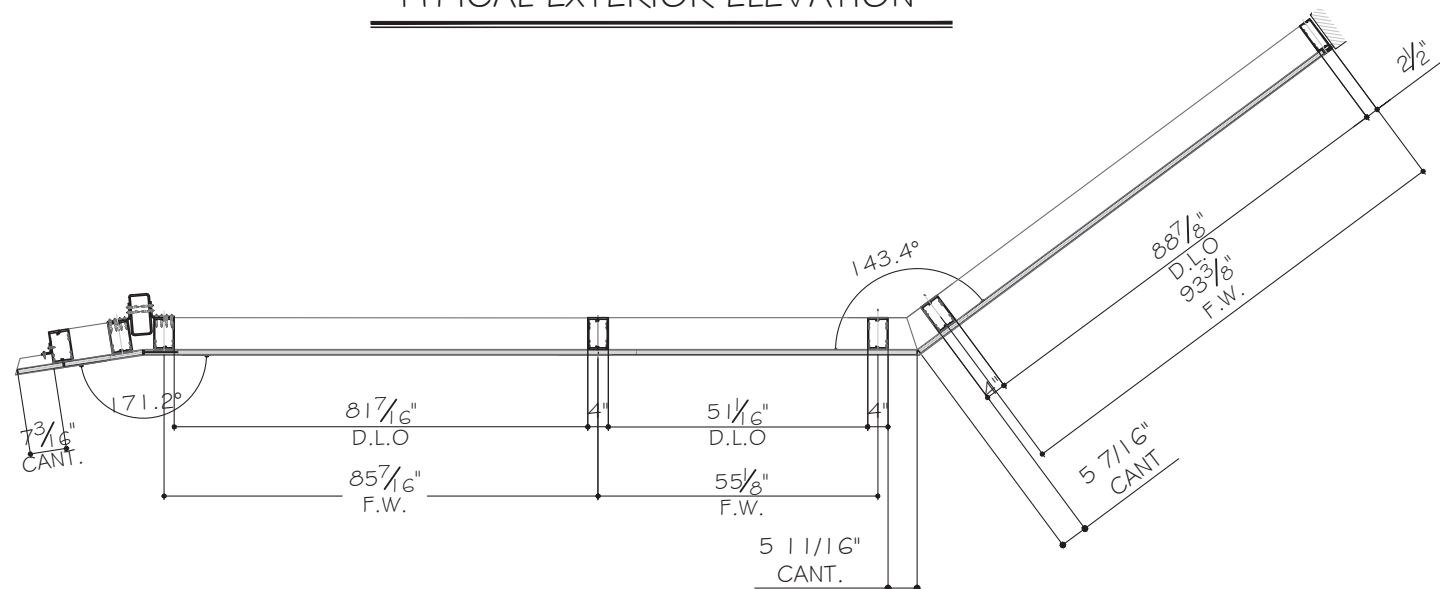
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AD20-38			
DRAWING NO.			
Drawn Date 08.10.2023		Drawn By	
Rev. No.	Date	Drawn By	Description
R4	08.10.2023	James	FBC 2023
WW40 WINDOW WALL SYSTEM LAM. GLASS - SMI			
GLOBAL PERFORMANCE WINDOWS, INC.			
DBA EPSYLON USA			
2115 S.W. 2ND STREET, POMPAÑO BEACH FL 33069			
TEL.: (954) 942-3322 FAX: (954) 942-3215			
			
MCY ENGINEERING, INC.			
GLAZING CONSULTANTS			
12781 MIRAMAR PARKWAY #301			
MIRAMAR, FL. 33027 P: (305)271-0117			
www.MCYEngineering.com mcy@mcyengineering.com			



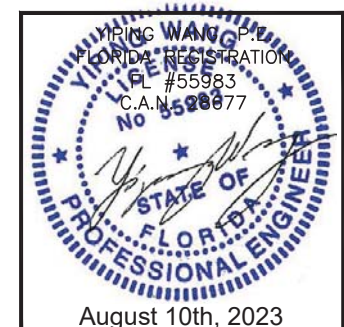
TYPICAL EXTERIOR ELEVATION



DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+80 PSF
-90 PSF



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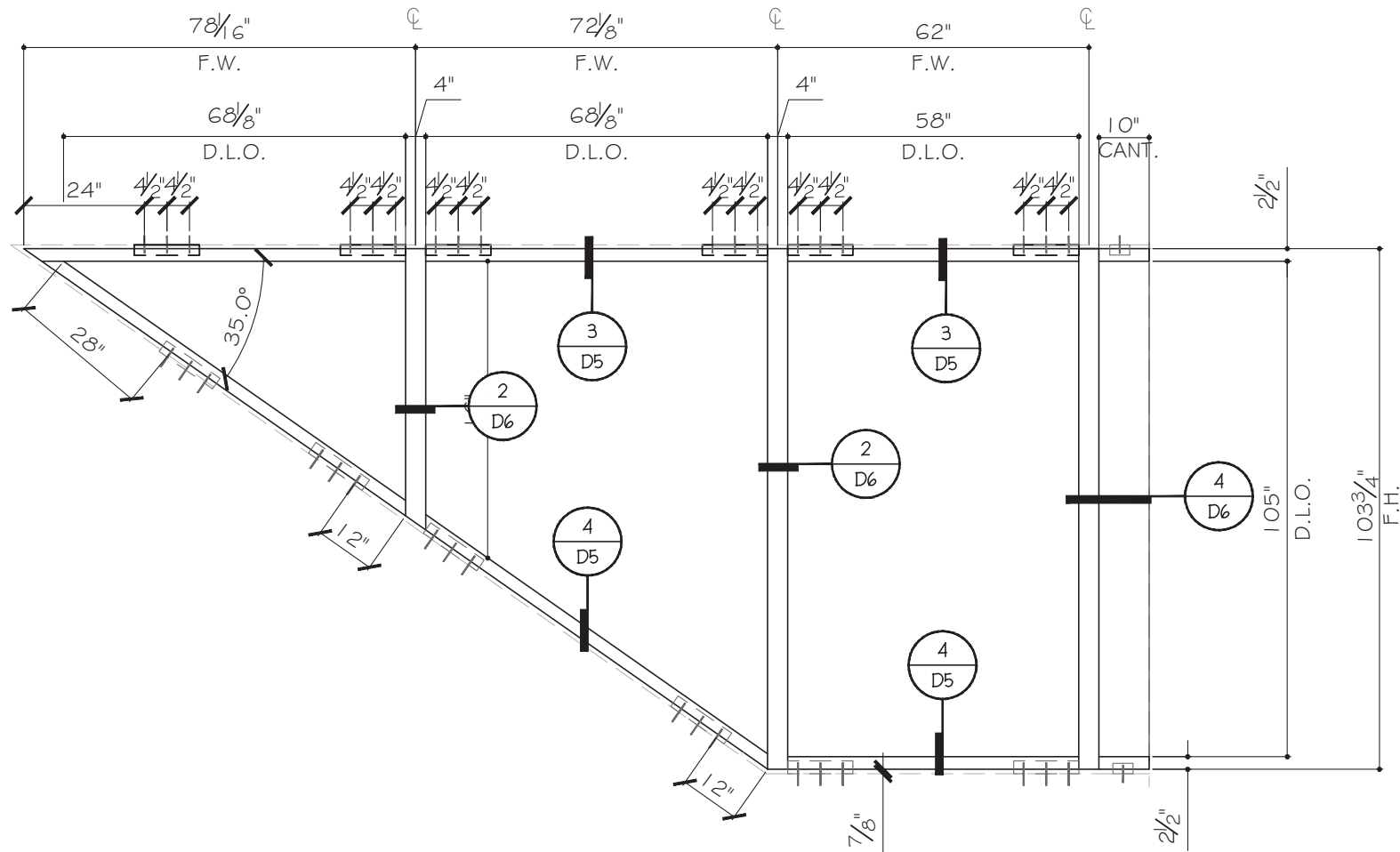
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08.10.2023

Drawn By
AD20-38

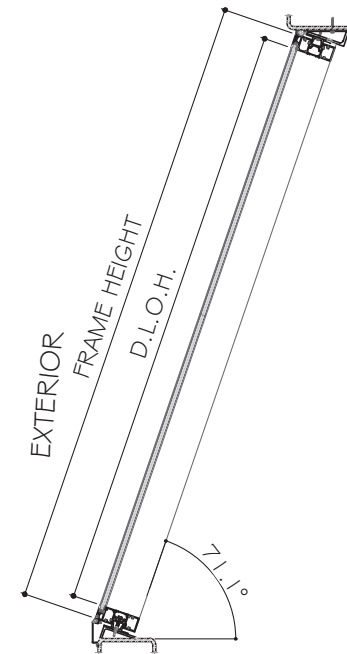
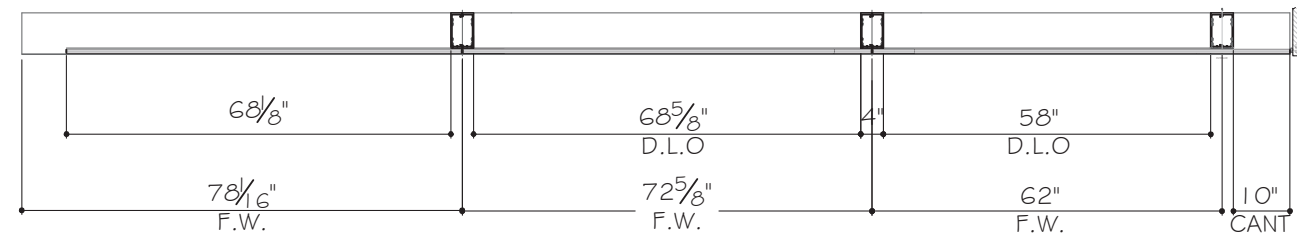
E2

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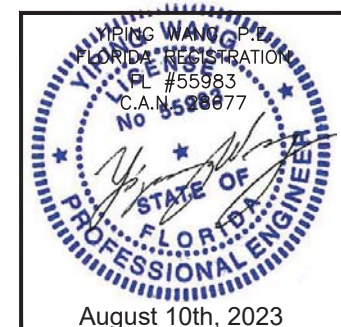


TYPICAL EXTERIOR ELEVATION



DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+90 PSF -130 PSF

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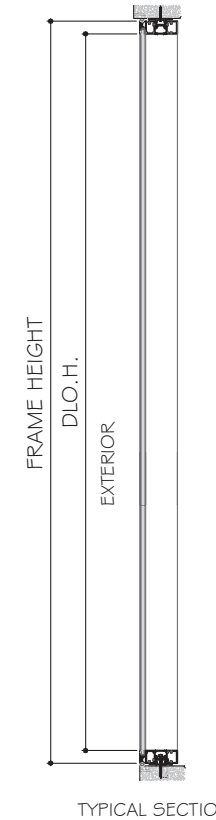
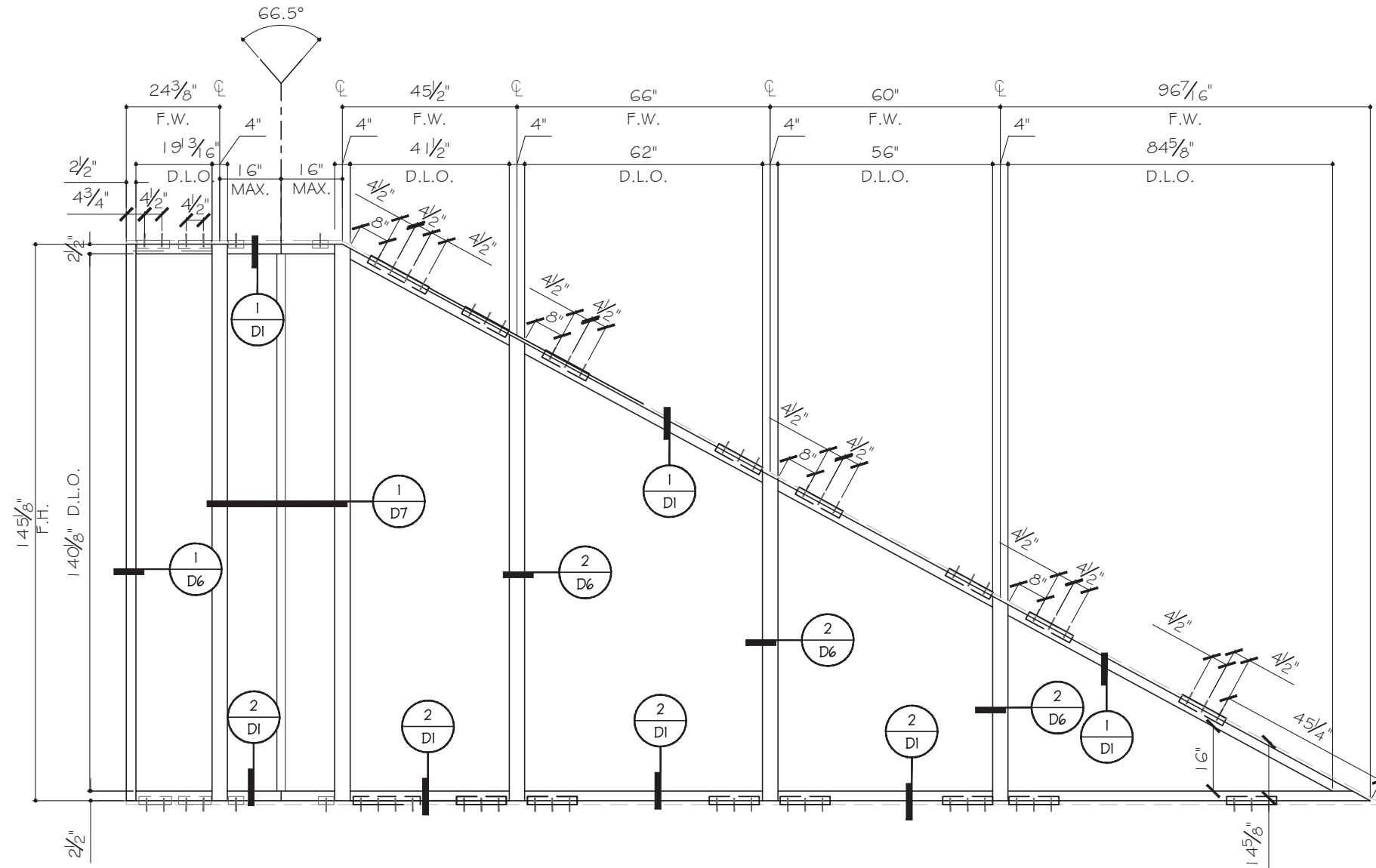


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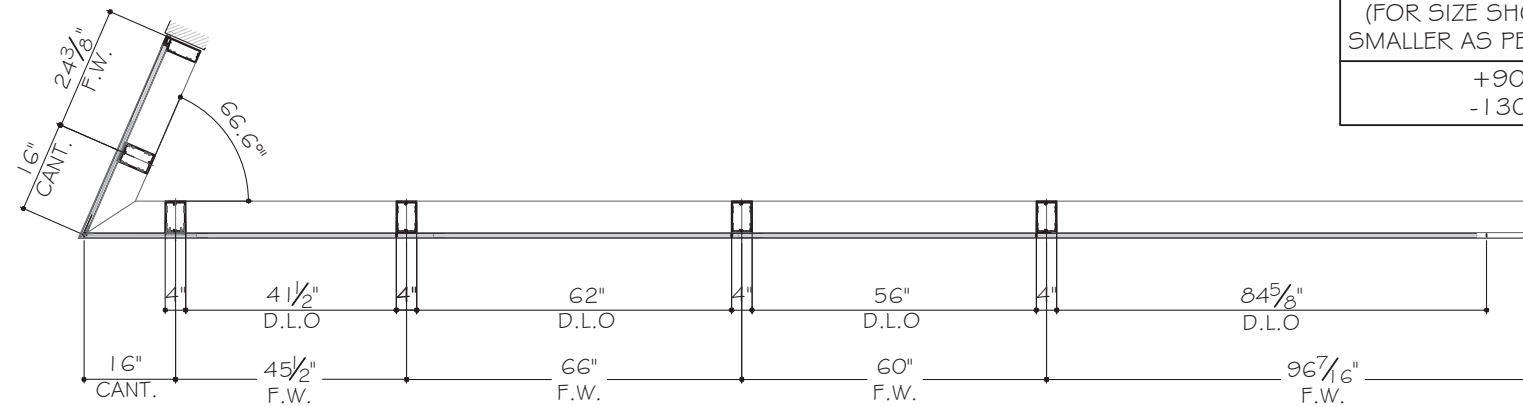
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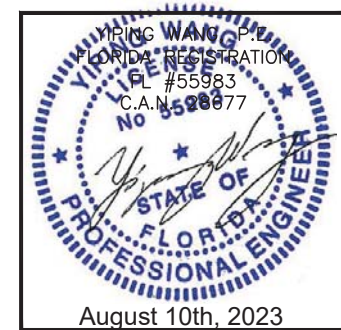


TYPICAL EXTERIOR ELEVATION

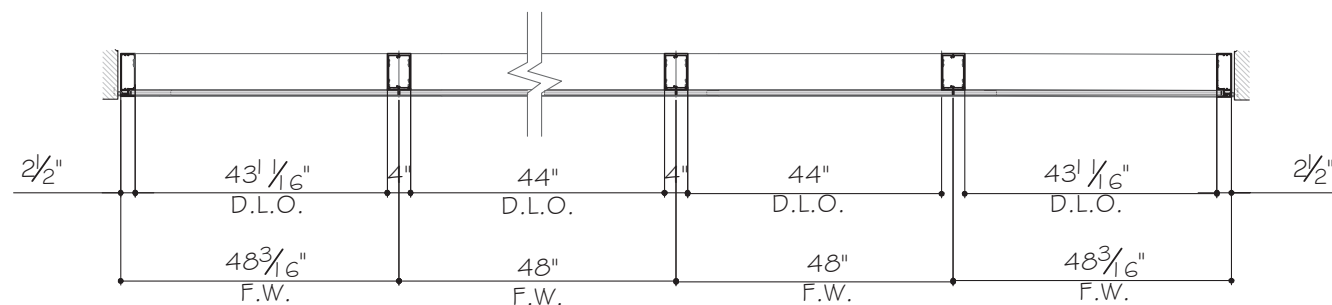


DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+90 PSF
-130 PSF

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DESIGN LOADS
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+ 90 PSF
- 140 PSF

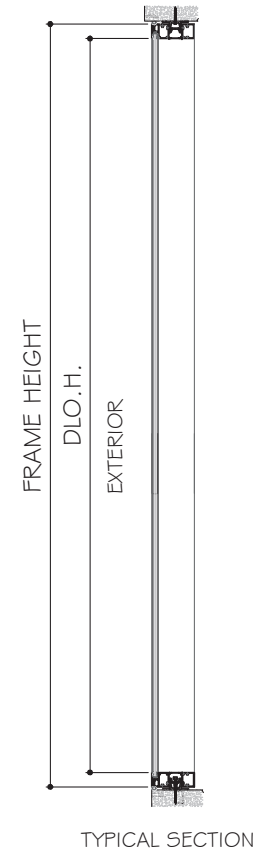


CHART 2- DIAGONAL MULLION CAPACITY	
UNREINF.	123.8 PSF
REINF.	140 PSF

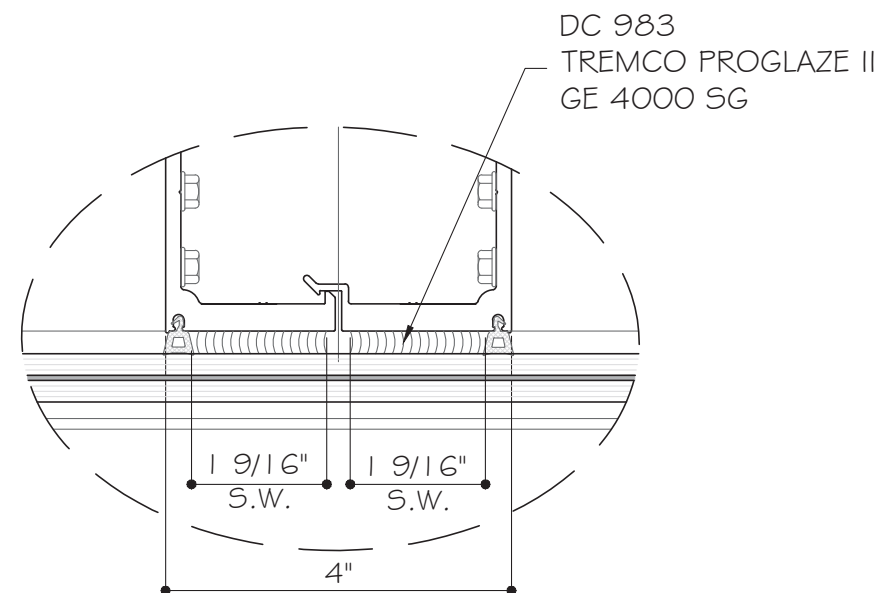
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						08.10.2023	Date		
			Rd	Rev.	No.				
Drawn Date 09.10.2023						Drawn By			
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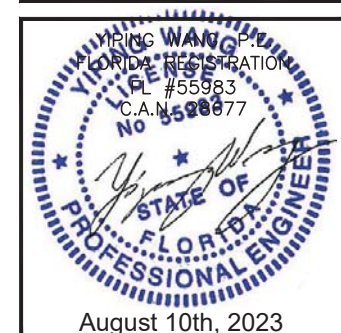
SSG DETAIL AT MULLION

CHART 3 - GLASS CAPACITY (psf)				
MAX. GLASS DLO SIZE			"G2"	
D.L.O WIDTH (IN)	D.L.O HEIGHT (IN)	GLASS AREA (ft ²)	(+) PSF	(-) PSF
58	105	42.29	90	130
44	126.9	38.79	90	140

CHART 4 - SILICONE CAPACITY

CHART 4 - SILICONE CAPACITY		
SILICONE WITH (SW)	MULLION SPACING (ft-in)	PD ALLOW
		PSF (+/-)
1-9/16"	64.25	140
	69.25	130
	75	120
	82	110
	90	100
	100	90

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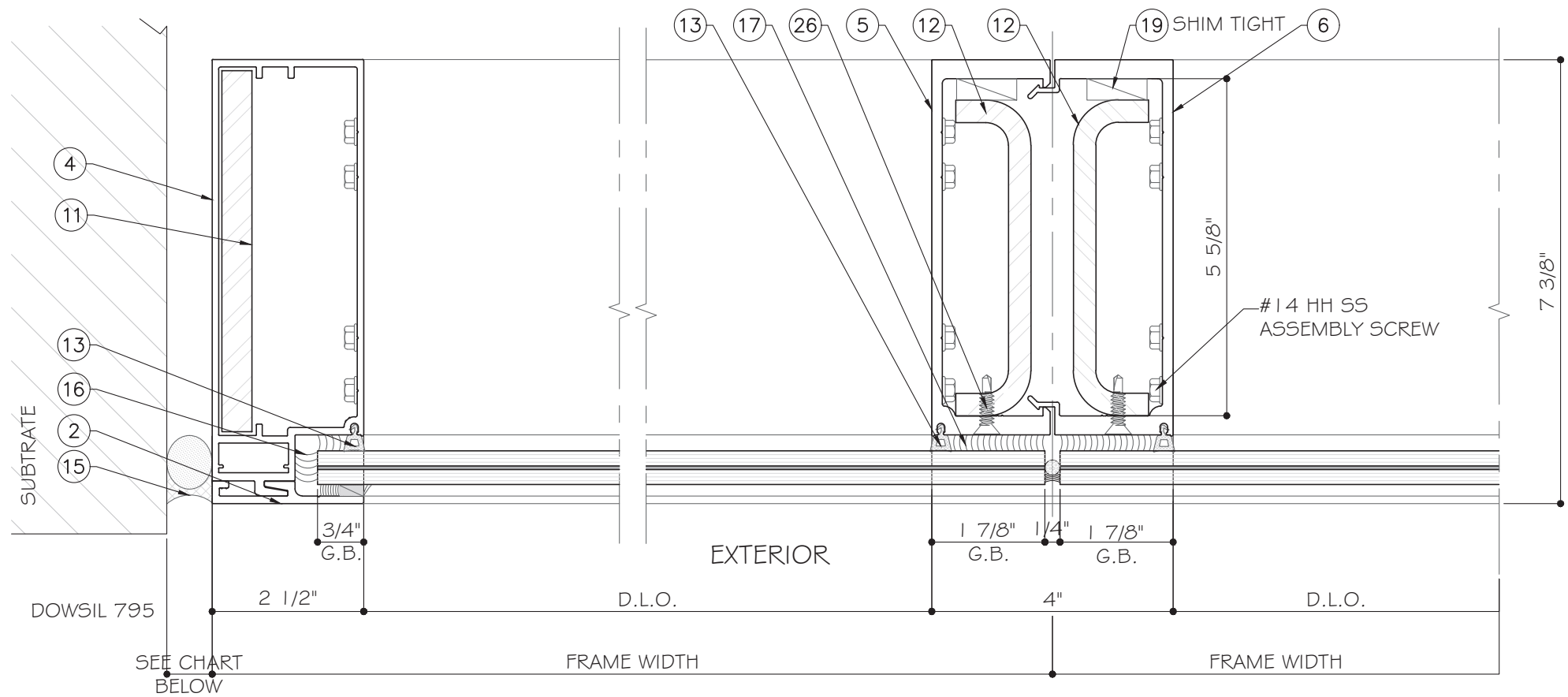


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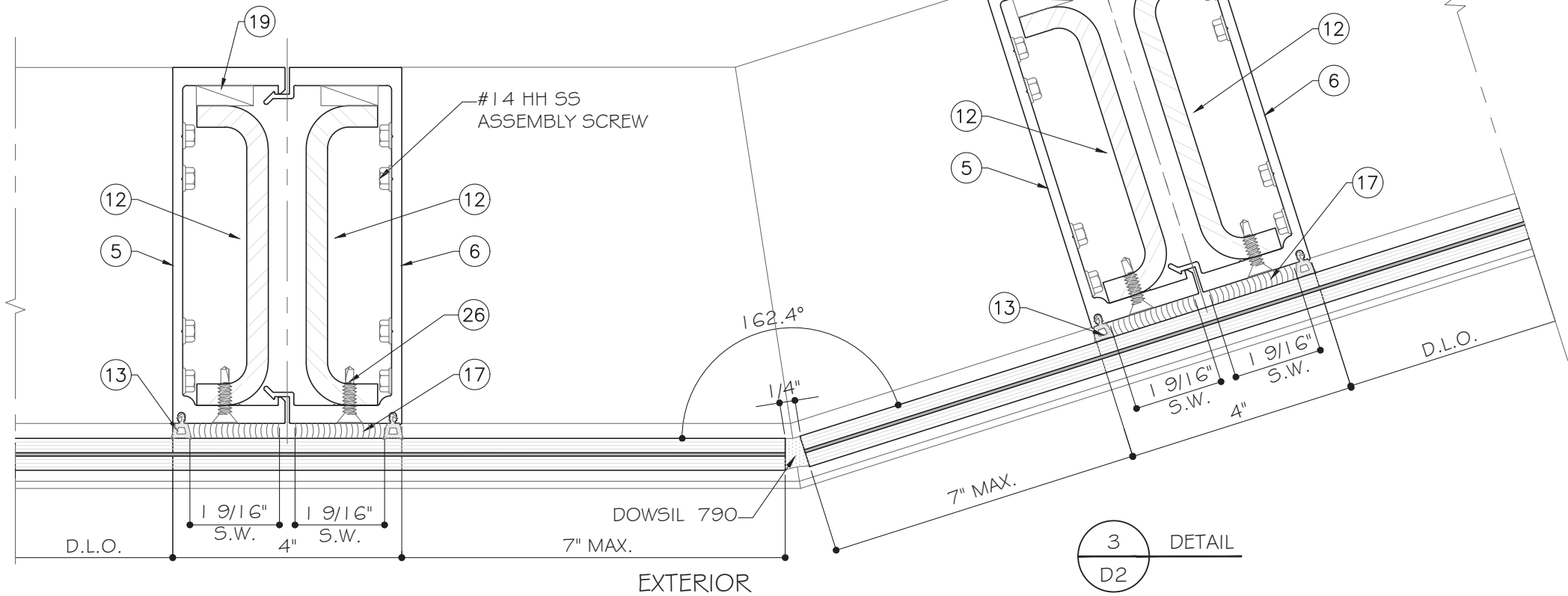
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						James	Drawn By
					08.10.2023	Date	
Rd.	Rev.	No.					
Drawn Date 08.10.2023						Drawn By	
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G1							
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JAMB GAP	
FRAME H.	MIN. (IN)
<= 144"	3/4"
156"	7/8"

1
D2
DETAIL

2
D2
DETAIL



3
D2
DETAIL

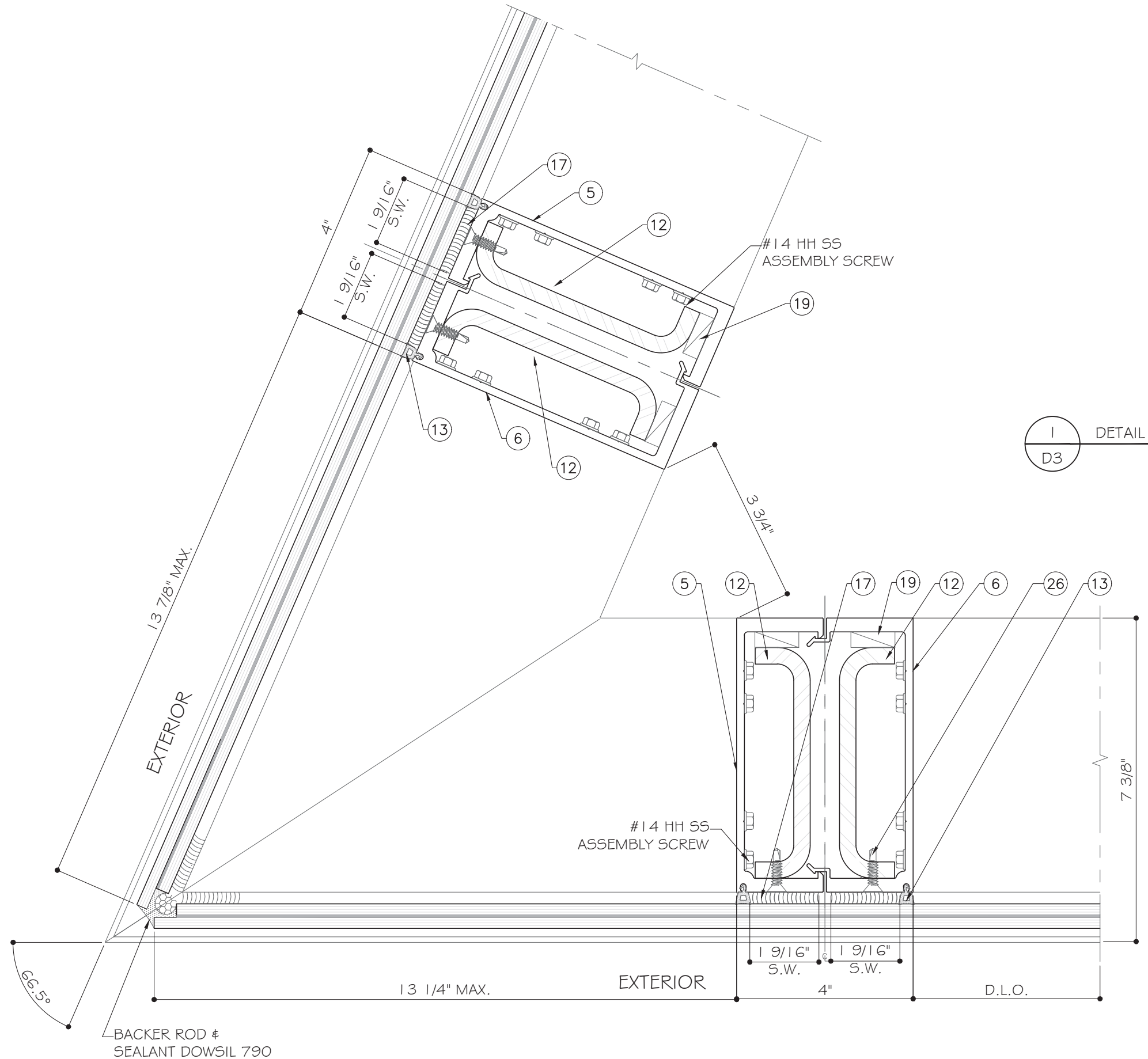
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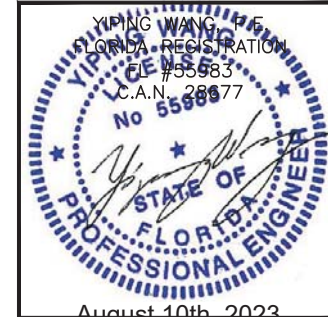
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DETAIL

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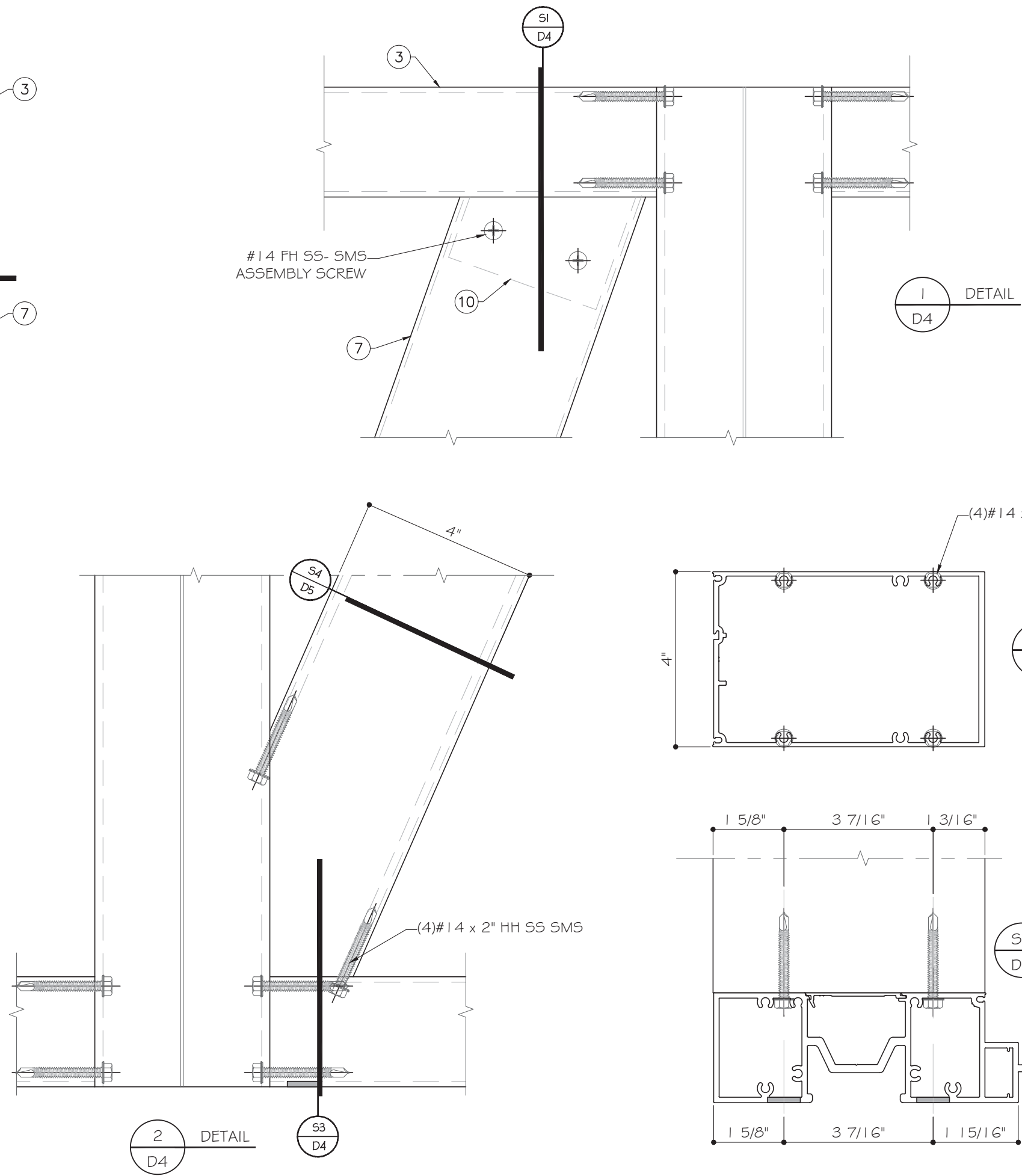
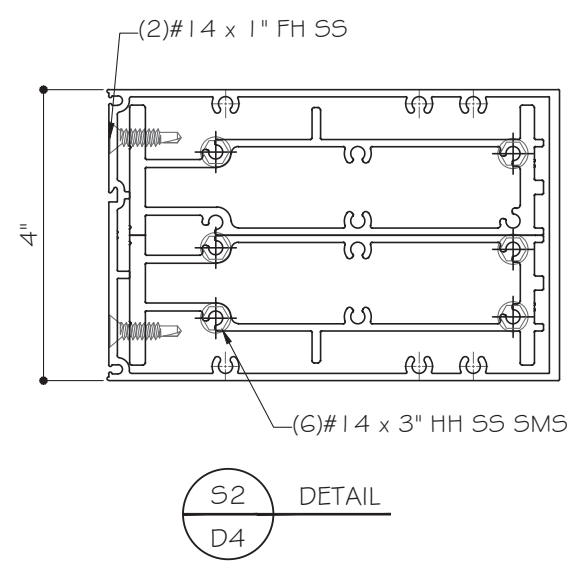
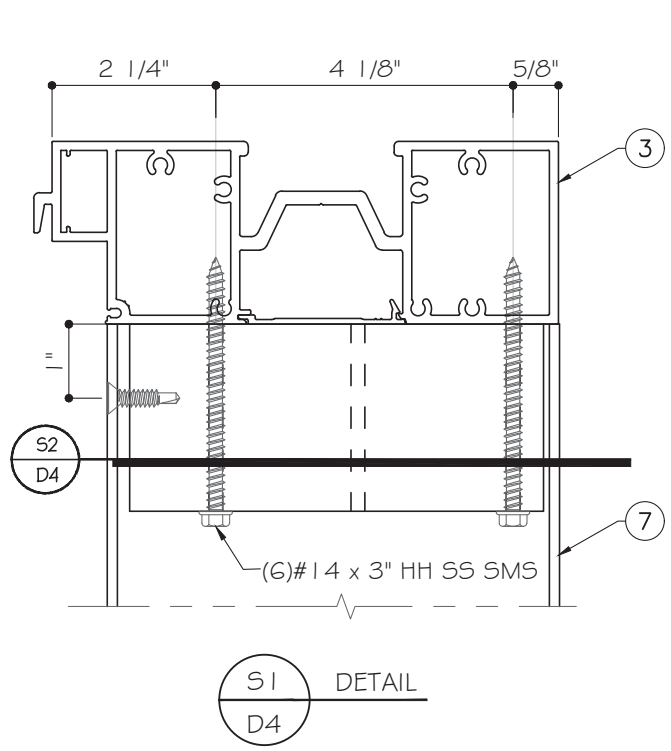


August 10th, 2023

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WW40 WINDOW WALL SYSTEM LAM. GLASS - SMI
GLOBAL PERFORMANCE WINDOWS, INC.
DBA EPSYLON USA
2115 S.W. 2ND STREET, POMPANO BEACH FL 33069
TEL.: (954) 942-3322 FAX: (954) 942-3215

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL. 33027 P: (305)271-0117
www.MCYEngineering.com mcy@mcyengineering.com



FLORIDA APPROVAL:
FL # 37048.1

YIPING WANG, P.E.
FLORIDA REGISTRATION
FC #55953
C.A.N. 28637
No 55953

August 10th, 2023

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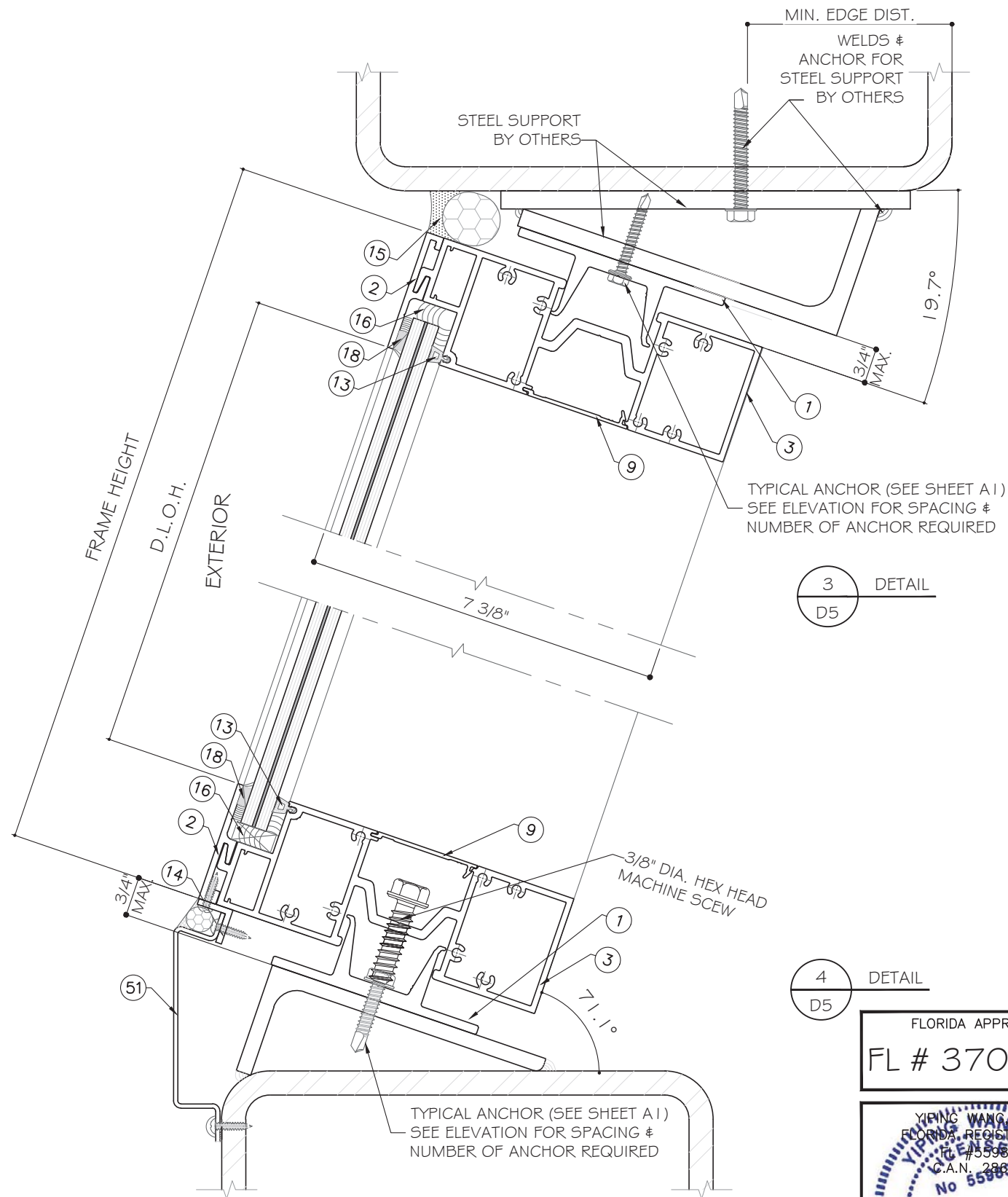
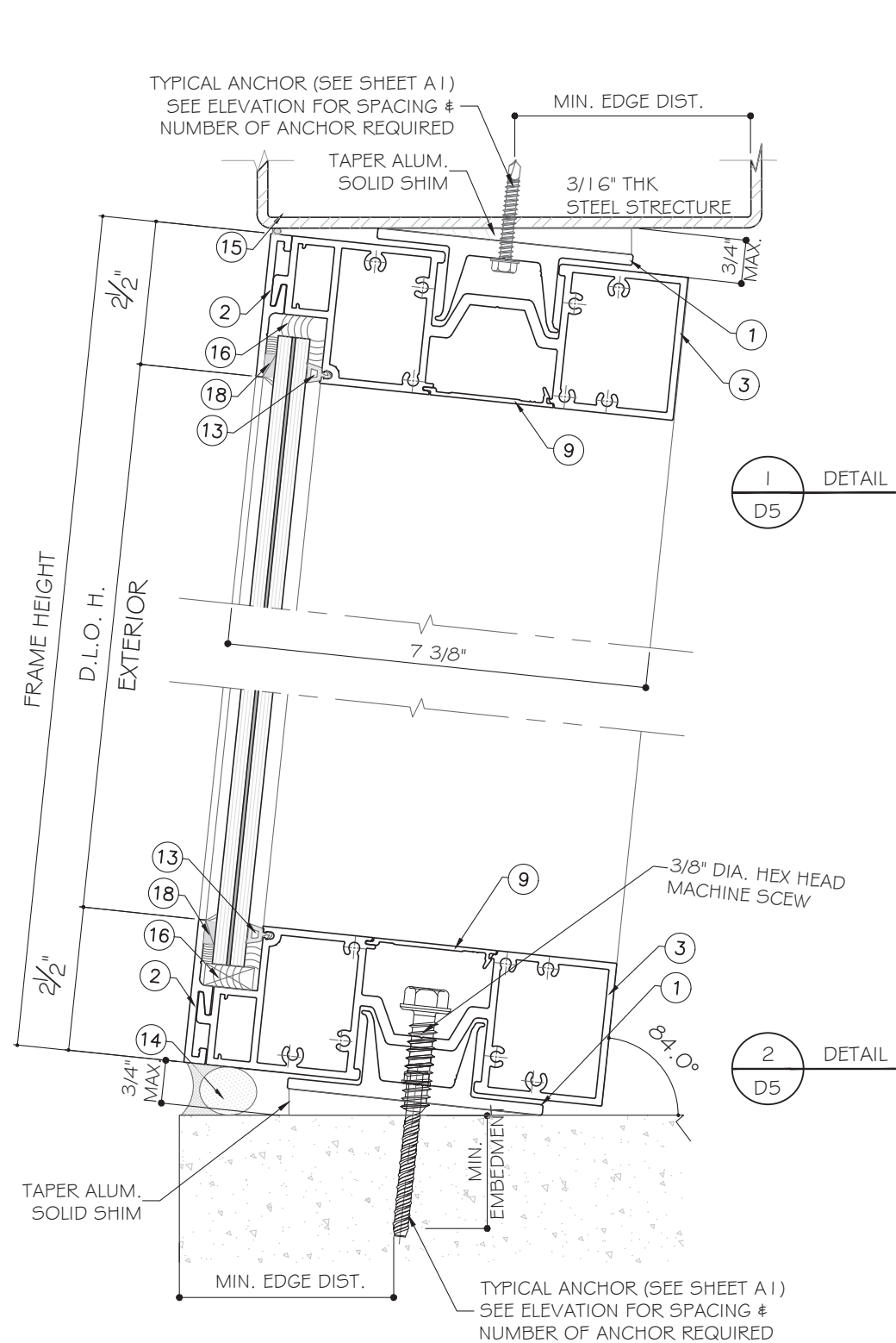
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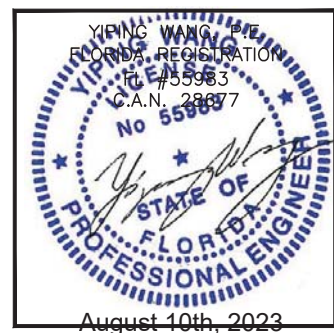
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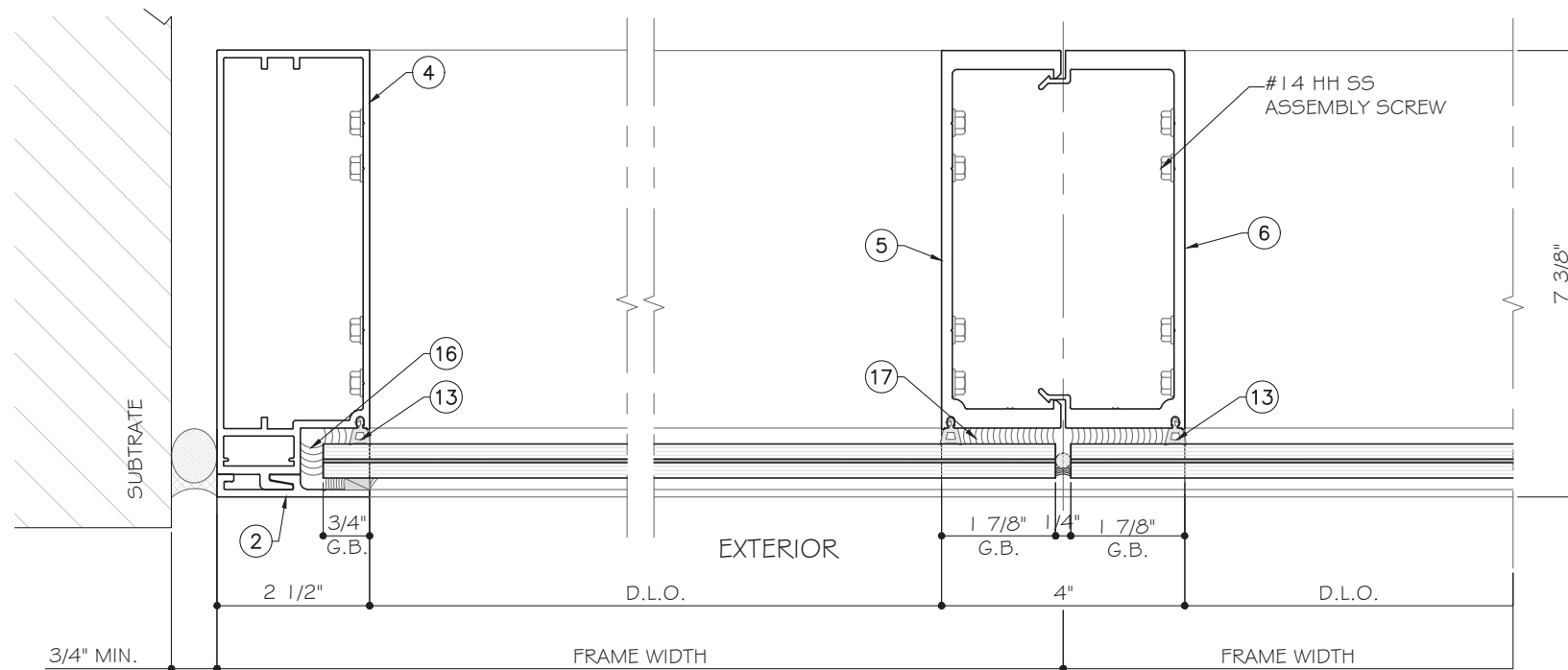
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AD20-38

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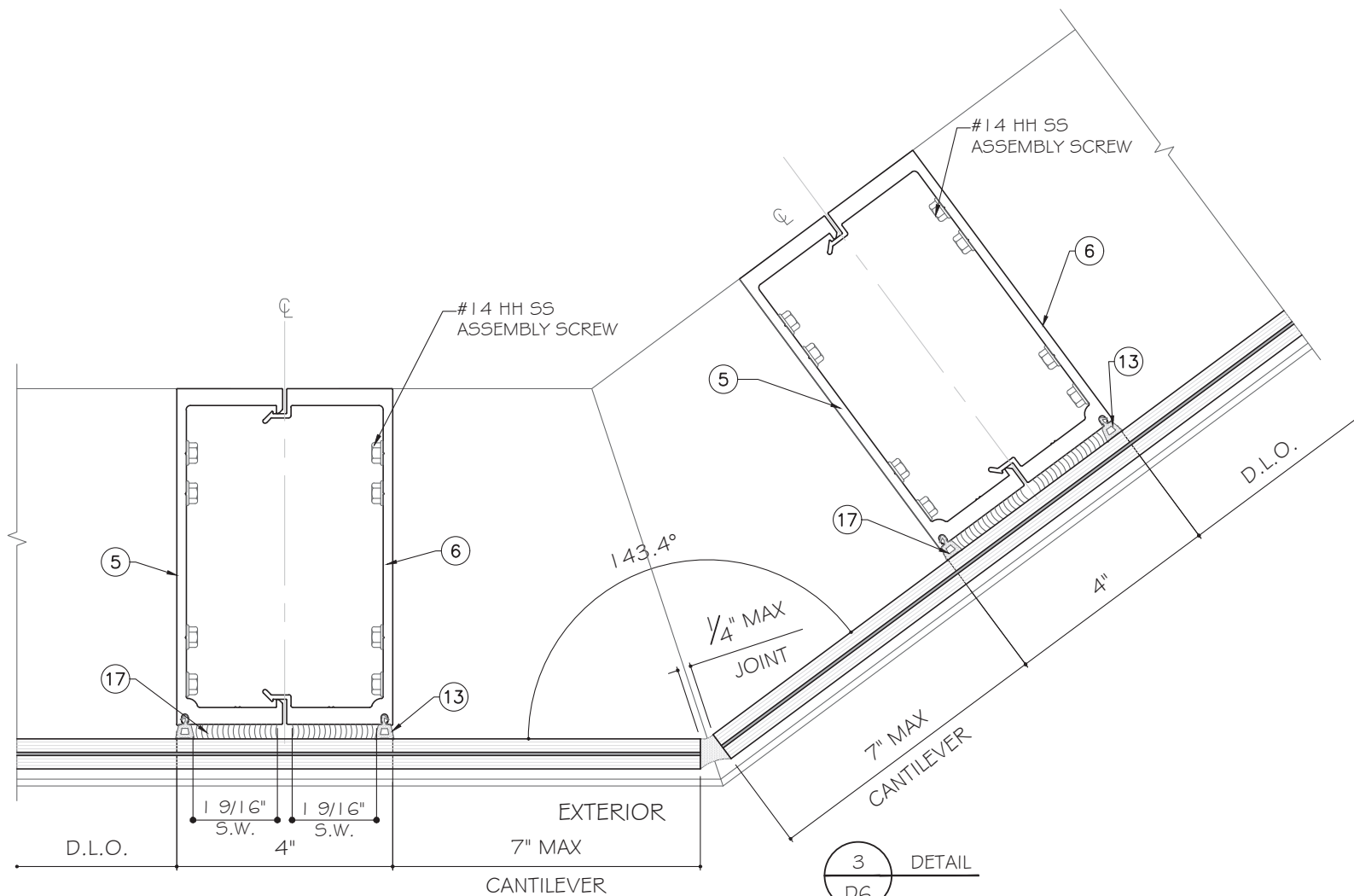
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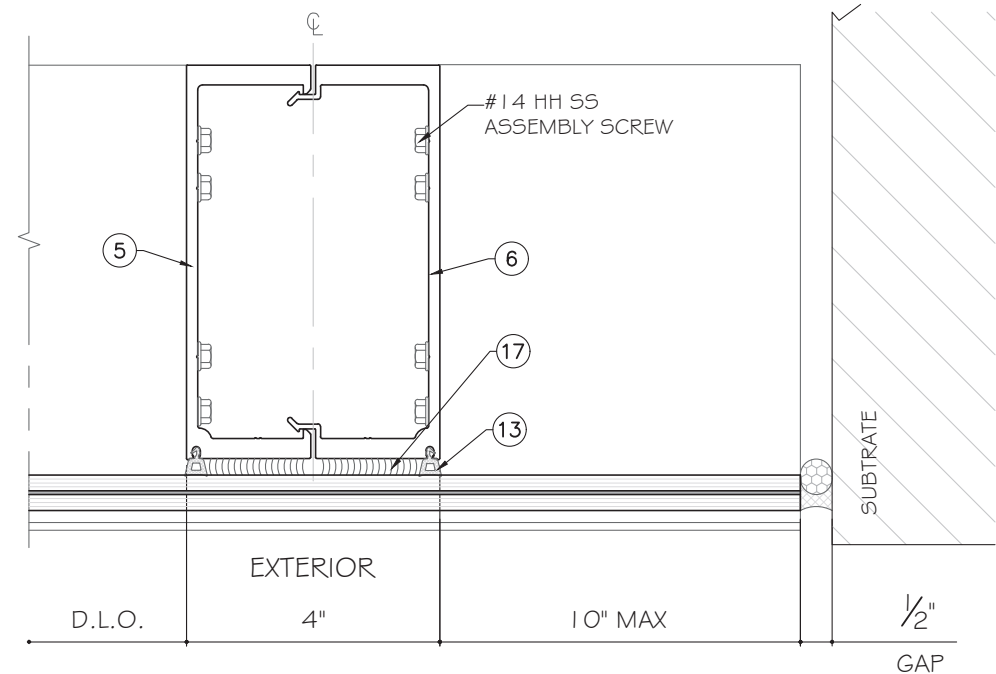


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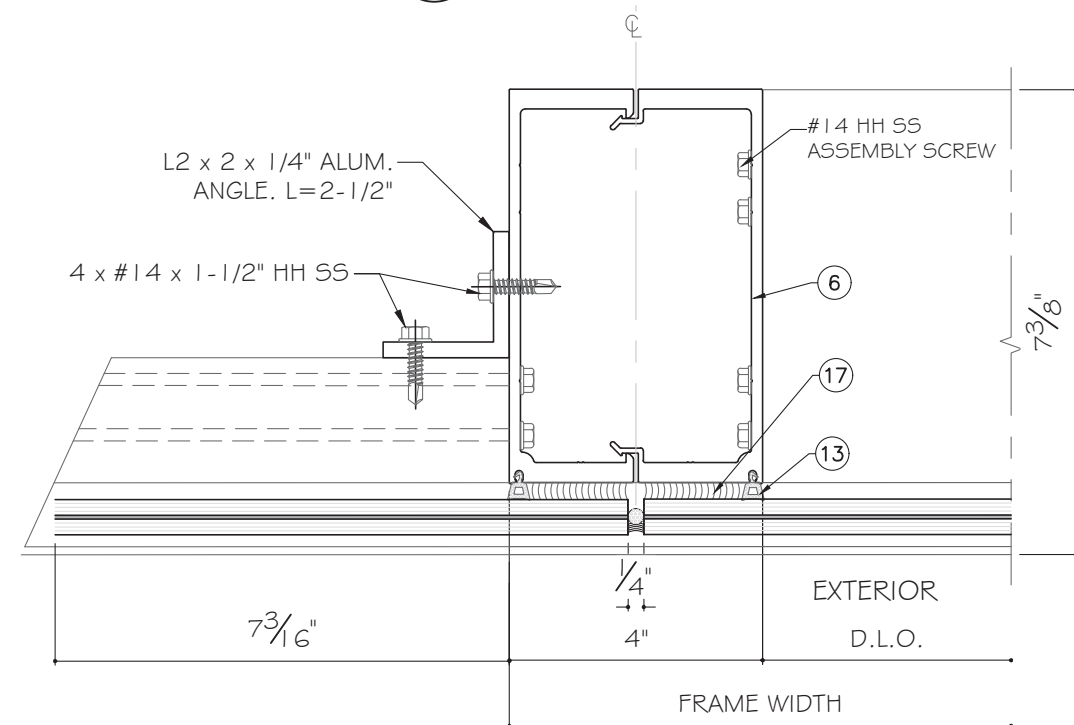
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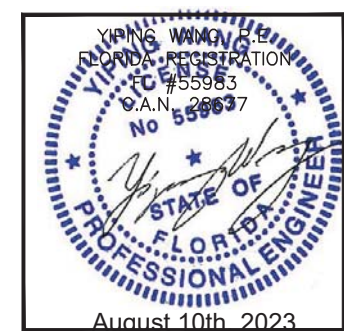


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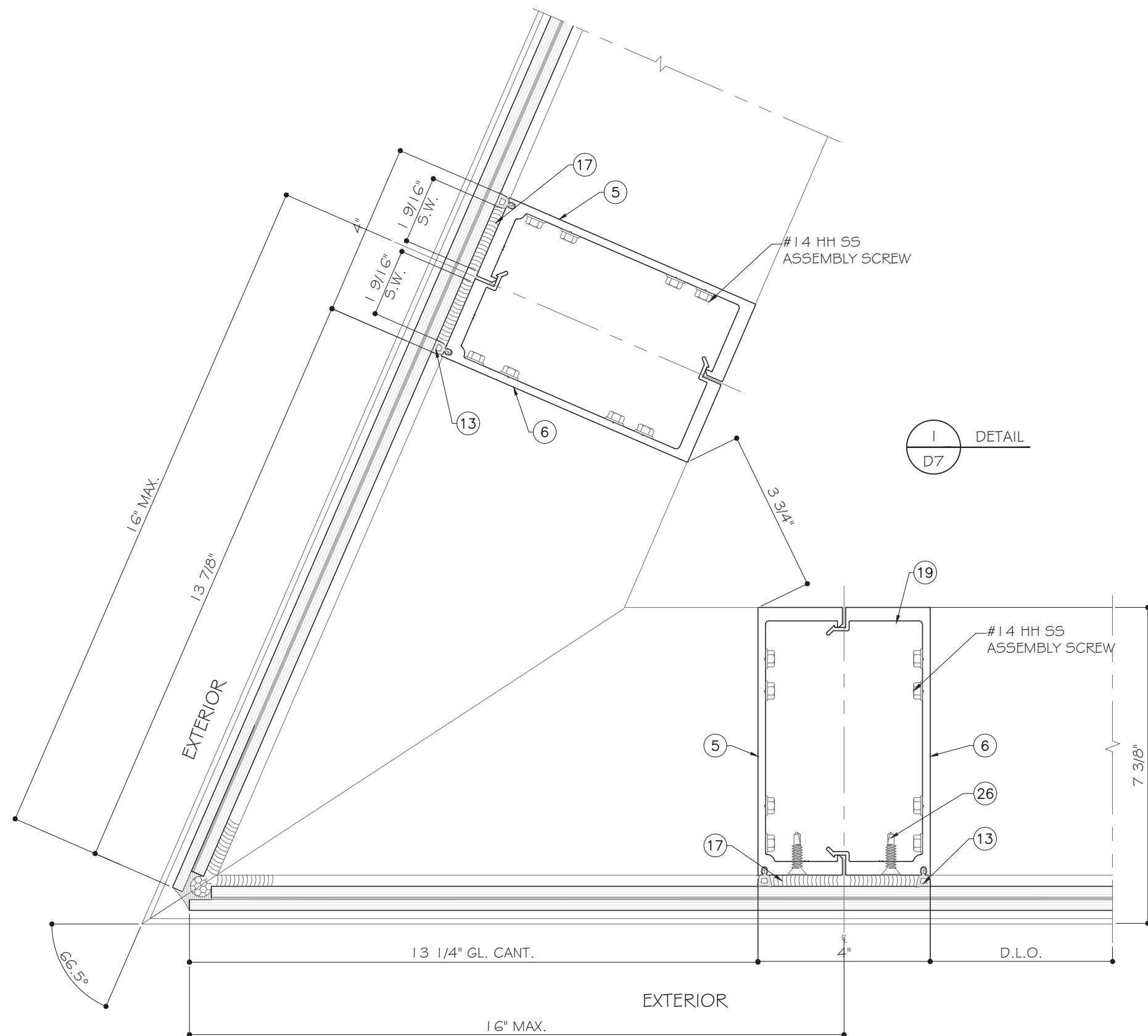
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R4	08.10.2023	James	FBC 2023
Drawn Date 08.10.2023 Drawn By			
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FL # 37048.2



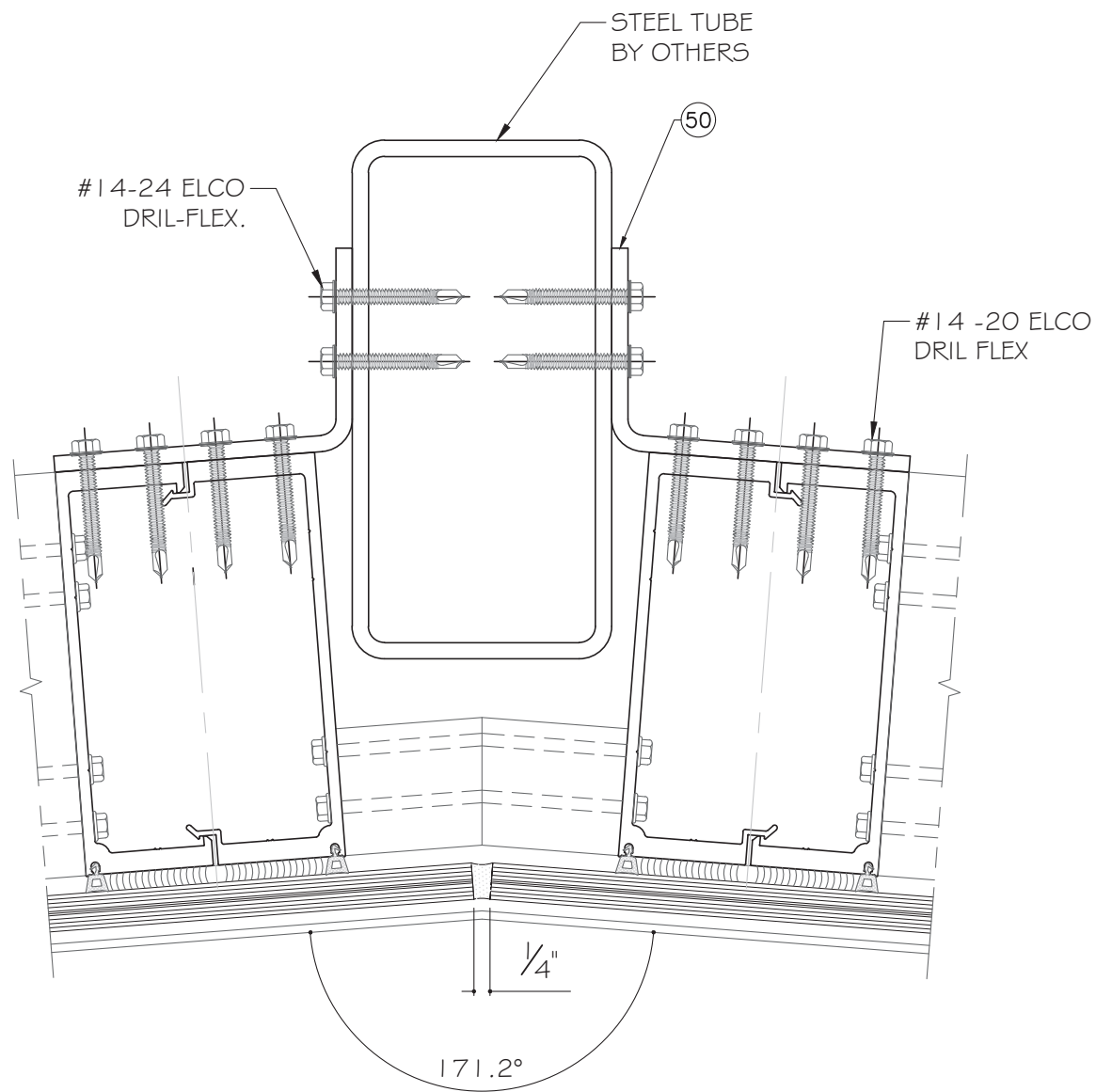
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Rev. No.				Date			
R4				08.10.2023			
Drawn By				James			
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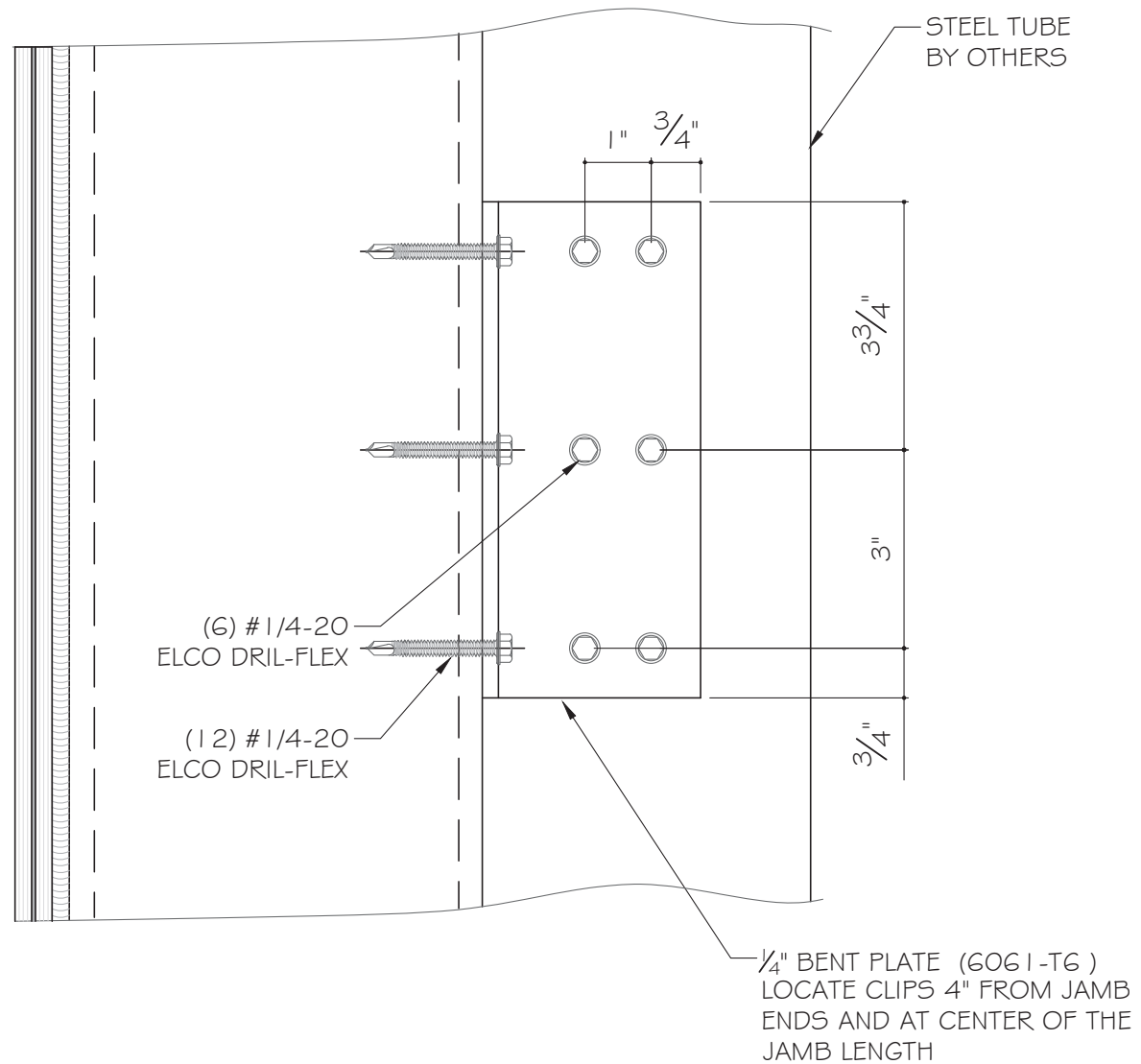
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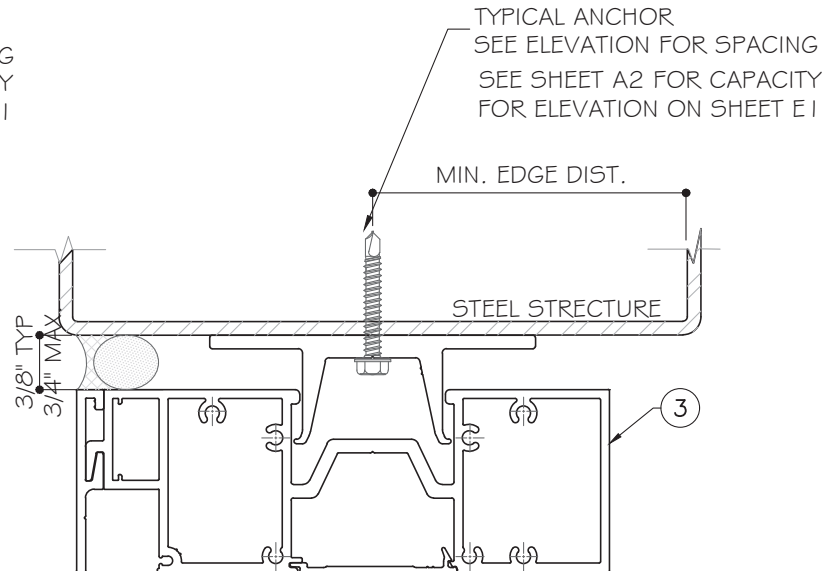
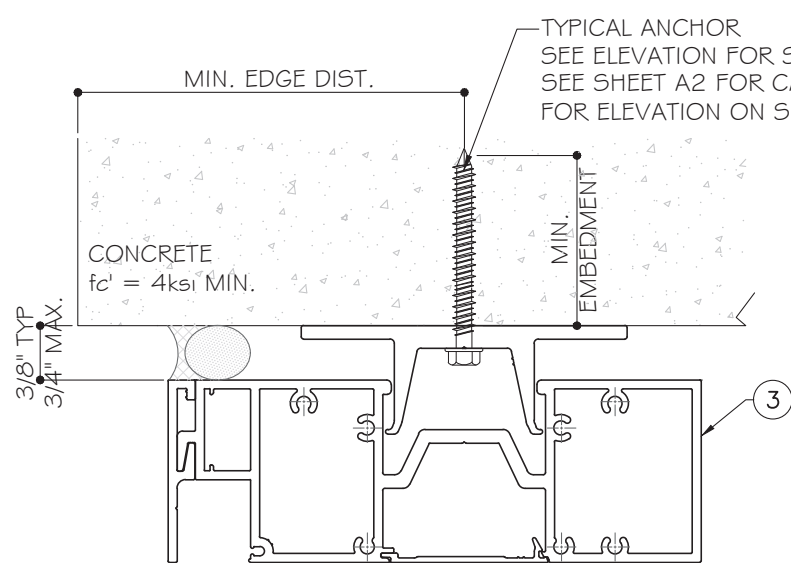
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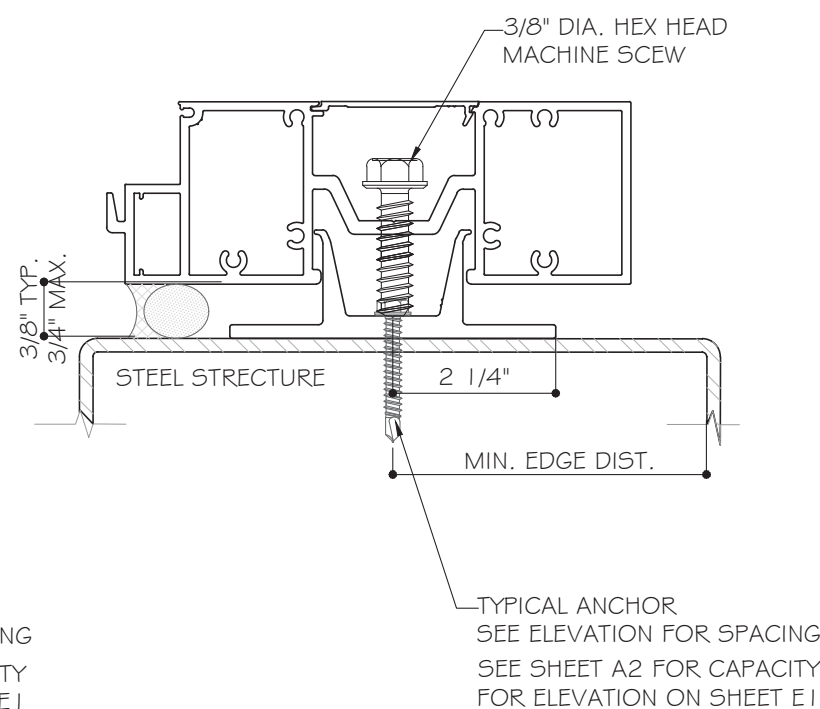
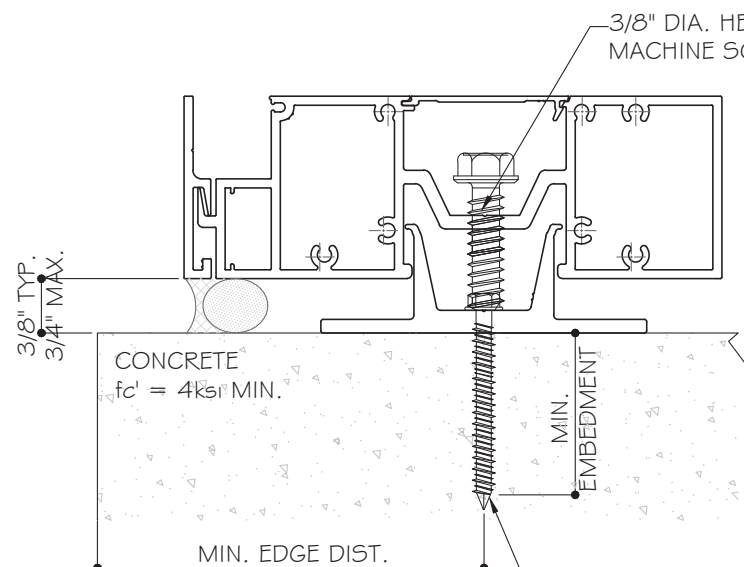
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NOTE:
STEEL STRUCTURE BY OTHERS TO BE DESIGNED
AND ANCHORED PROPERLY TO TRANSFER THE
LOAD FROM GLAZING SYSTEM TO BUILDING
STRUCTURE



-TYPICAL ANCHORS: (SEE ELVEVATIONS FOR SPACING)

TYPE 'A':

5/16" DIA. 'DEWALT' ULTRAICON ($F_u = 177 \text{ KSI}$, $F_y = 155 \text{ KSI}$)
DIRECTLY INTO CONCRETE (4000 PSI MIN.)
WITH 2" MIN. EMBEDMENT & 4 1/2" O.C. MIN.

TYPE 'B':

5/16" DIA. DRIL-FLEX OR TEKS INTO METAL STRUCTURE

($F_u = 120 \text{ KSI}$, $F_y = 92 \text{ KSI}$)
STEEL: 3/16" MIN. THK. A36 MIN.
STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED)

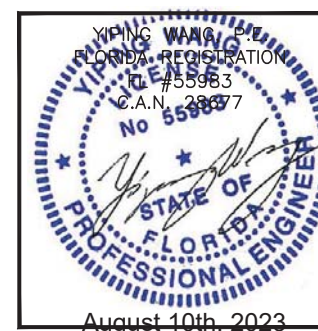
ANCHOR EDGE DISTANCE

INTO CONCRETE = 3 1/4" MIN.
INTO METAL = 2 1/4" MIN.

SEALANTS:

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND
PERIMETER GLAZING BEAD TO FRAME INSTALLATION
FASTENERS SEALED WITH SILICONE SEALANT.

FLORIDA APPROVAL:
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R4	08.10.2023	James	FBC 2023

Drawn Date
08.10.2023

Drawn By

DRAWING NO.
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A1

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NOMINAL DIMENSIONS		ANCHOR TYPES		
TRIB. WITH (W)	FRAME HEIGHT (F.H.)	A3 (4KSI)	A4 (4KSI)	B3 (STL)
48	132	120	120	120
54		120	120	120
60		118	120	120
48	138	120	120	120
54		120	120	120
60		113	120	120
48	144	120	120	120
54		120	120	120
60		108	120	120
48	150	120	120	120
54		115	120	120
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60		100	120	120

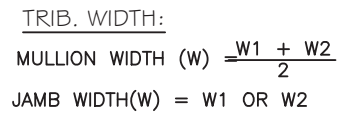
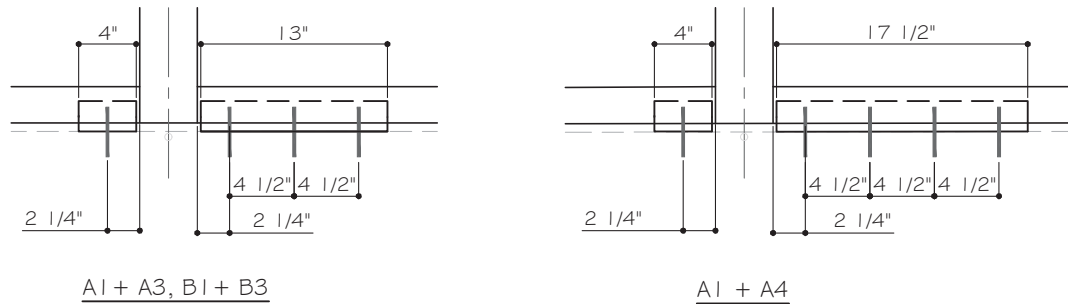


CHART 5 - ANCHOR CAPACITIES AT CORNER W. GLASS CANTILIVERED (+/-PSF)				
NOMINAL DIMENSIONS		ANCHOR TYPES		
TRIB. WITH (W1)	FRAME HEIGHT (F.H.)	A1 + A3 (4KSI)	A1 + A4 (4KSI)	B1 + B3 (STL)
48	132	119	120	120
54		111	120	120
60		104	120	120
48	138	114	120	120
54		106	120	120
60		99	120	120
48	144	109	120	120
54		102	120	120
60		95	119	120
48	150	105	120	120
54		98	120	120
60		91	114	120
48	150	101	120	120
54		94	117	120
60		88	110	120



'A1 + A3'= ANCHORS TYPE 'A', (1) AT CORNER SIDE & (3) AT TYPICAL SIDE
'A1 + A4'= ANCHORS TYPE 'A', (1) AT CORNER SIDE & (4) AT TYPICAL SIDE
'B1 + B3'= ANCHORS TYPE 'B', (1) AT CORNER SIDE & (3) AT TYPICAL SIDE

'A3' = (3) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION OR JAMB
'A4' = (4) ANCHORS TYPE 'A' AT EACH SIDE OF MULLION OR JAMB
'B3' = (3) ANCHORS TYPE 'B' AT EACH SIDE OF MULLION OR JAMB

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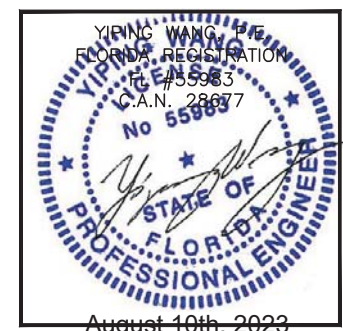
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DRAWING NO.

AD20-38

A2

Sheet No.
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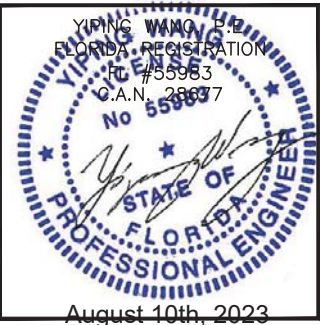
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				08.10.2023	Date	
			R4	Rev.	No.	
Drawn Date 08.10.2023		Drawn By				
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PARTS						
Sheet No. 18 OF 20						

WW40 WINDOW WALL SYSTEM LAM. GLASS - SMI GLOBAL PERFORMANCE WINDOWS, INC. DBA EPSYLON USA 2115 S.W. 2ND STREET, POMPAHO BEACH FL 33069 TEL.: (954) 942-3322 FAX.: (954) 942-3215	 MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL. 33027 P: (305) 271-0111 www.MCYEngineering.com mcy@mcyengineering.com
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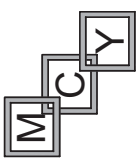
BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	21022	SLEEVE ANCHOR	ALUM. 6005A-T6 I	METRA ALUM INC.
2	21001	EXTERIOR CAP	ALUM. 6063-T6	METRA ALUM INC.
3	21021	FRAME HEAD / SILL	ALUM. 6063-T6	METRA ALUM INC.
4	21023	FRAME JAMB	ALUM. 6063-T6	METRA ALUM INC.
5	21008	SPLIT MULLION 4" (FEMALE)	ALUM. 6063-T6	METRA ALUM INC.
6	21009	SPLIT MULLION 4" (MALE)	ALUM. 6063-T6	METRA ALUM INC.
7	21012	4" HORIZONTAL MULLION	ALUM. 6063-T6	METRA ALUM INC.
8	11012	SNAP ON GLASS EXTENSION	ALUM. 6063-T6	METRA ALUM INC.
9	64010	SNAP ON COVER	ALUM. 6063-T6	METRA ALUM INC.
10	-	SLEEVE ANCHOR	ALUM. 6005A-T6 I	METRA ALUM INC.
11	-	6" x 1/2" THK. STEEL BAR REINFORCING	STEEL A36	-
12	-	1 1/4" x 5 1/4" x 3/8" THK. STEEL REINFORCING CHANNEL	STEEL A36	-
13	90006	GASKET - TREMCO	EPDM - DURO 70	-
14	-	BACKER ROD & SEALANT DOWSIL 790 OR SIKA 295 OR SIKA 305 OR SPECTREM 2	-	-
15	-	BACKER ROD & SEALANT DOWSIL 795 OR SIKA 295 OR SIKA 305 OR SPECTREM 2	-	-
16	-	SEALANT SPRECTREM 2 OR DOWSIL 795 (6" LONG @ CORNER)	-	-
16A	-	SEALANT SPRECTREM 2 OR DOWSIL 795	-	-
17	-	PROGLAZE II (TREMCO), DOW CORNING DC983 OR GE 4000SG	-	-
18	-	POLYSHIM 1/4" THICK X 1/2" LONG	-	-
19	-	POLYSHIM 1/4" THICK X 1" WIDTH	-	-
21	-	STEEL BAR REINFORCING 6" x 1/2" THK.	STEEL A36	-
22	-	FRAME HEAD W/O SNAP ON COVER	ALUM. 6063-T6	METRA ALUM INC.
23	-	FRAME JAMB	ALUM. 6063-T6	METRA ALUM INC.
24	11013	SNAP ON GLASS EXTENSION 4" LG AT 1/4 POINTS	ALUM. 6063-T6	METRA ALUM INC.
25	-	SCR SETTING BLOCK	EPDM- DURO 65	-
26	-	#14 X 3/4" FH SDS @ (1) FROM EACH END & (1) AT MIDSPAN	STAINLESS STEEL	VARIES
27	-	PVC SHIM FOR JAMB, (2X) HEAD ANCHOR (2X) SILL ANCHOR	PVC	
28	-	#12 HH SMS ASSAMBLY SCREW- 1 1/2" LONG	STAINLESS STEEL	VARIES
29	-	#12 HH SMS ASSAMBLY SCREW- 1 1/2" LONG	STAINLESS STEEL	VARIES
30	-	ALUMINUM ANGLE 6" X 5" X 3/8" THK. + PVC SHIM @ SILL ANCHOR	ALUM. 6063-T6	
31	-	5/16" DIA. X 2-1/2" FU ULTRACON	S.S. 316	
32	-	STEEL BAR REINFORCING 6" x 1/2" THK.	STEEL A36	
33	-	#14 x 1" FLAT HEAD SCREW	STAINLESS STEEL	
34	-	3/4" X 3/8"PVC SHIM	PVC	

FLORIDA APPROVAL:
FL # 37048.2



MCY ENGINEERING, INC.
GLAZING CONSULTANTS



12781 MIRAMAR PARKWAY #301
MIRAMARI, FL 33027 P: (305)271-0117

www.MCYEngineering.com mcy@mcysengineering.com

WW40 WINDOW WALL SYSTEM LAM. GLASS - SMI

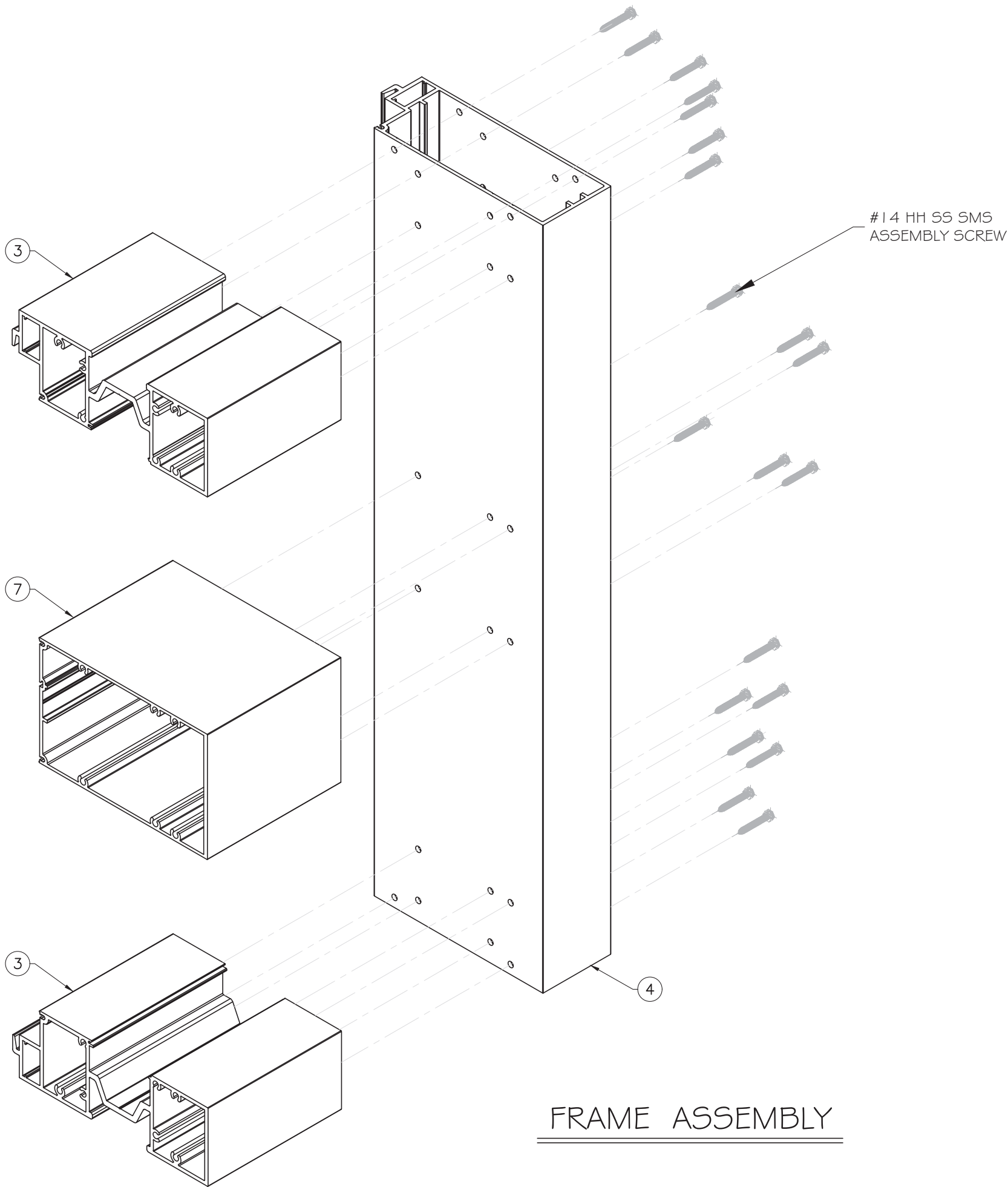
GLOBAL PERFORMANCE WINDOWS, INC.

DBA EPSYLON USA

2115 S.W. 2ND STREET, POMPANO BEACH FL 33069

TEL.: (954) 942-3322 FAX.: (954) 942-3215

									FBC 2023	Description
									James	Drawn By
							R4	08.10.2023	Date	
Drawn Date 08.10.2023						Drawn By				
DRAWING NO.										
AD20-38										
BOM										
Sheet No.										
19 OF 20										



FRAME ASSEMBLY

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