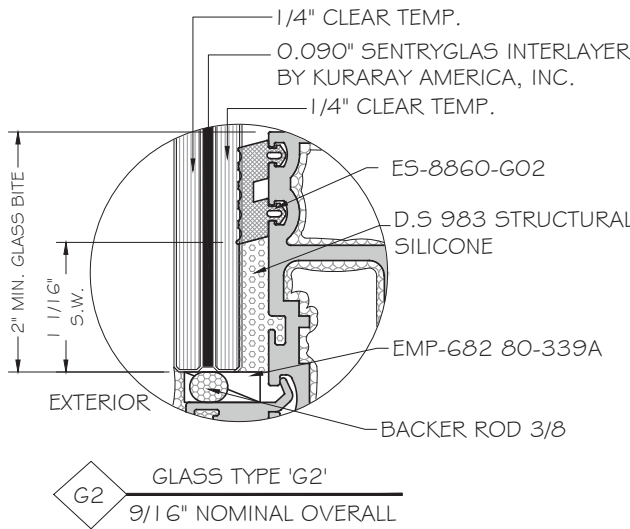
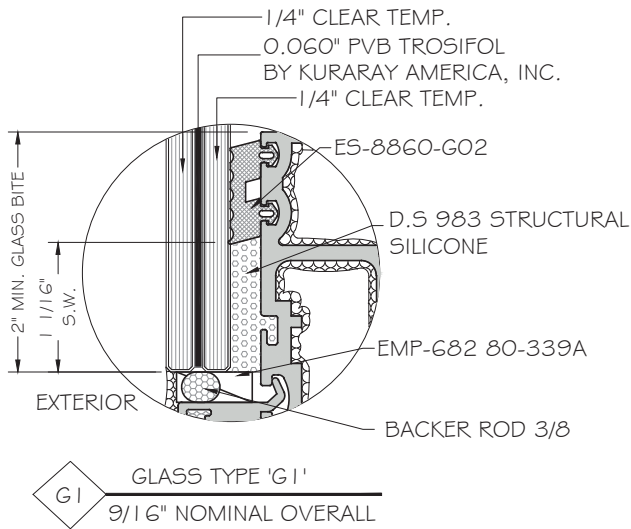


E.S. WINDOWS, INC.
ES-8860 WINDOW WALL SYSTEM - SMALL MISSILE IMPACT



NOTE:
GLASS COMPLIES WITH ASTM E1300-09 (3
SEC. GUSTS) AND ANSI Z97.1.

GENERAL NOTES:

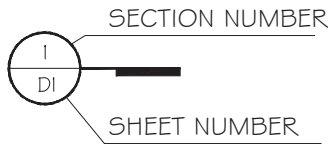
- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED FOR ELEVATIONS ABOVE 30'-0" FROM GRADE. IMPACT SHUTTERS ARE REQUIRED FOR ELEVATIONS BELOW 30'-0" FROM GRADE.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION AND ANSI Z97.1.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL. OTHER SITE SPECIFIC ANCHORING CONDITIONS TO BE DESIGNED BY A LICENSED DESIGN PROFESSIONAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/ METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION OF FLORIDA BUILDING CODE 2023 SECTION AS APPLICABLE.
- MAIN STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- ULTIMATE LOAD OBTAINED FROM 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.
- SEALANT:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 FOR APPROVED CONFIGURATION AND CAPACITIES. SHEET E2 SHOW DIFFERENT SILL CONDITION.
- STEP 3: SEE SHEET COVER FOR GLASS TYPES APPROVED. SEE SHEET S1 FOR SILICONE WIDTH & ITS CAPACITIES.
- STEP 4: SEE SHEET A1 FOR ANCHOR OPTIONS AND ITS CAPACITIES.
- STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 & 4 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

G.B. - GLASS BITE
D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER
O.H. - OPPOSITE HAND
OPP.- OPPOSITE



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:

FL45940.1



ES-8860 WINDOW WALL SYSTEM - SMI

ES WINDOWS, INC.
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Miami, FL 33138
TEL: (305) 624-7775



MCY ENGINEERING, INC.
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12781 MIRAMAR PKWY, STE. 301
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www.MCYEngineering.com mcy@mcyengineering.com

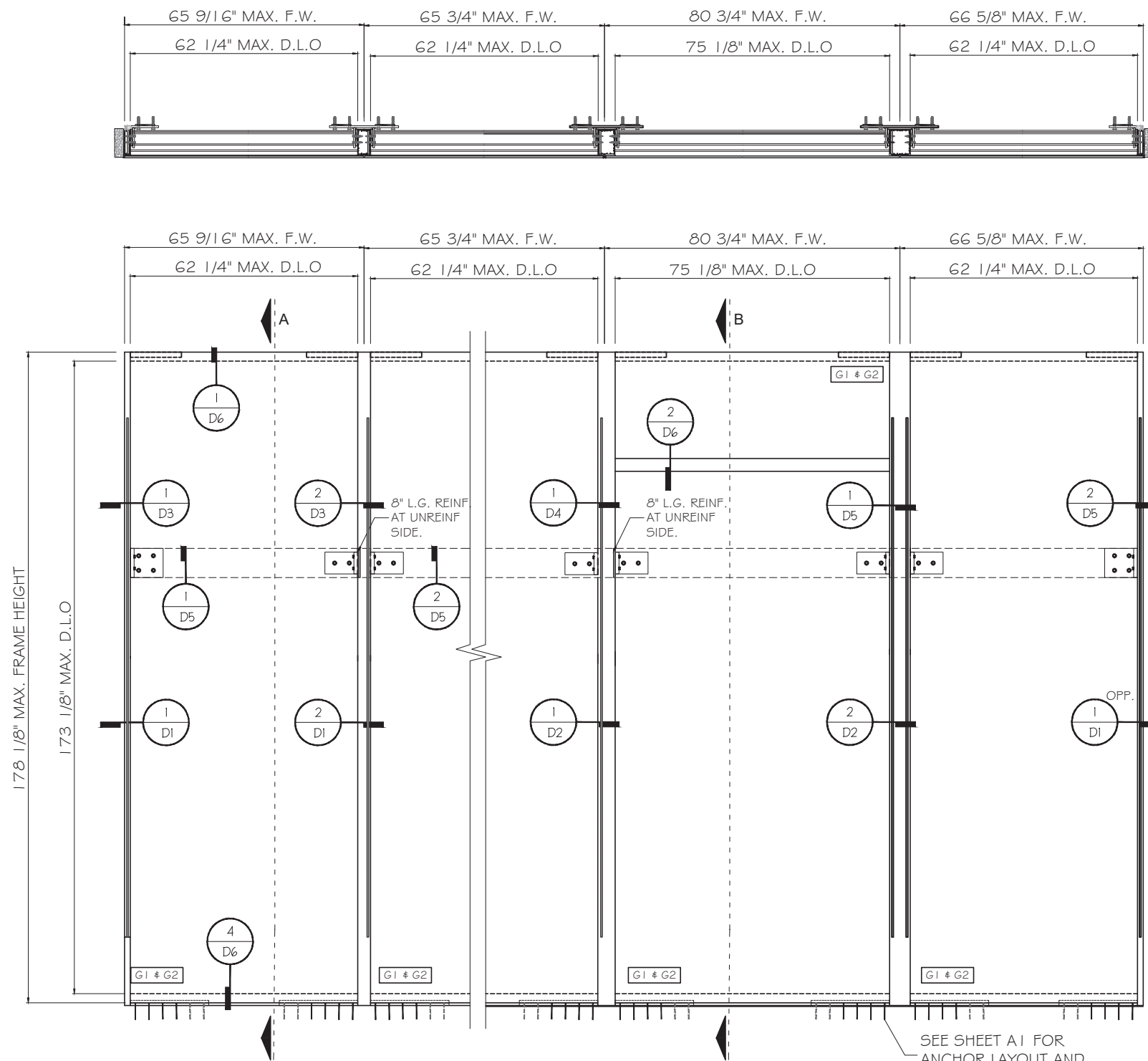
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COVER

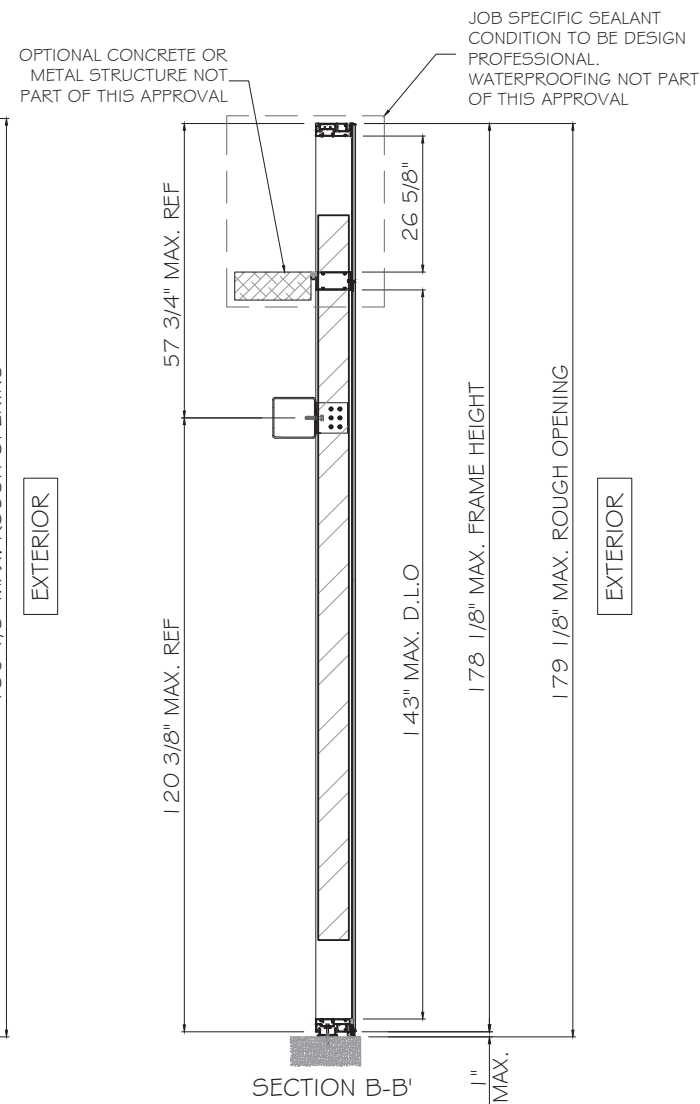
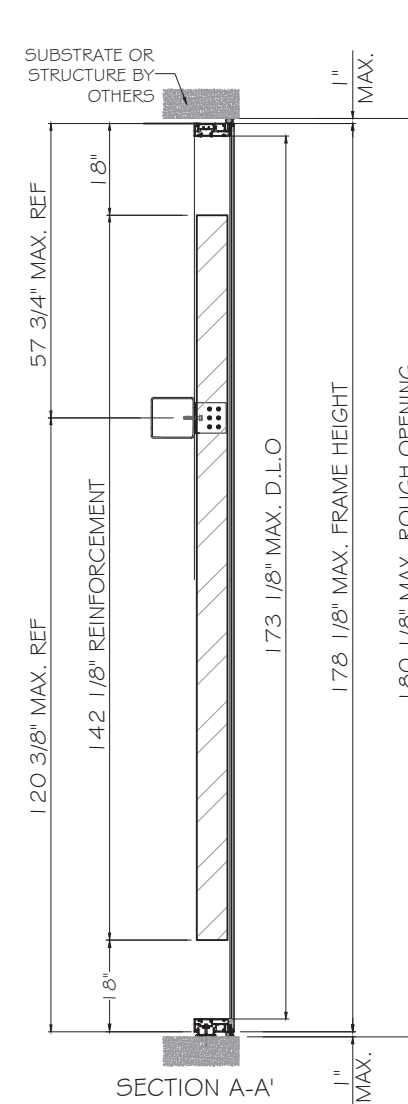
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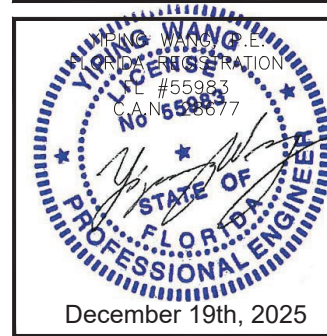
TYPICAL EXTERIOR ELEVATION

MAX. ALLOWABLE DESIGN LOAD FOR SIZES SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+ 174.0 PSF
- 174.0 PSF

SEE SHEET A1 FOR
ANCHOR LAYOUT AND
CAPACITIES



FLORIDA APPROVAL:
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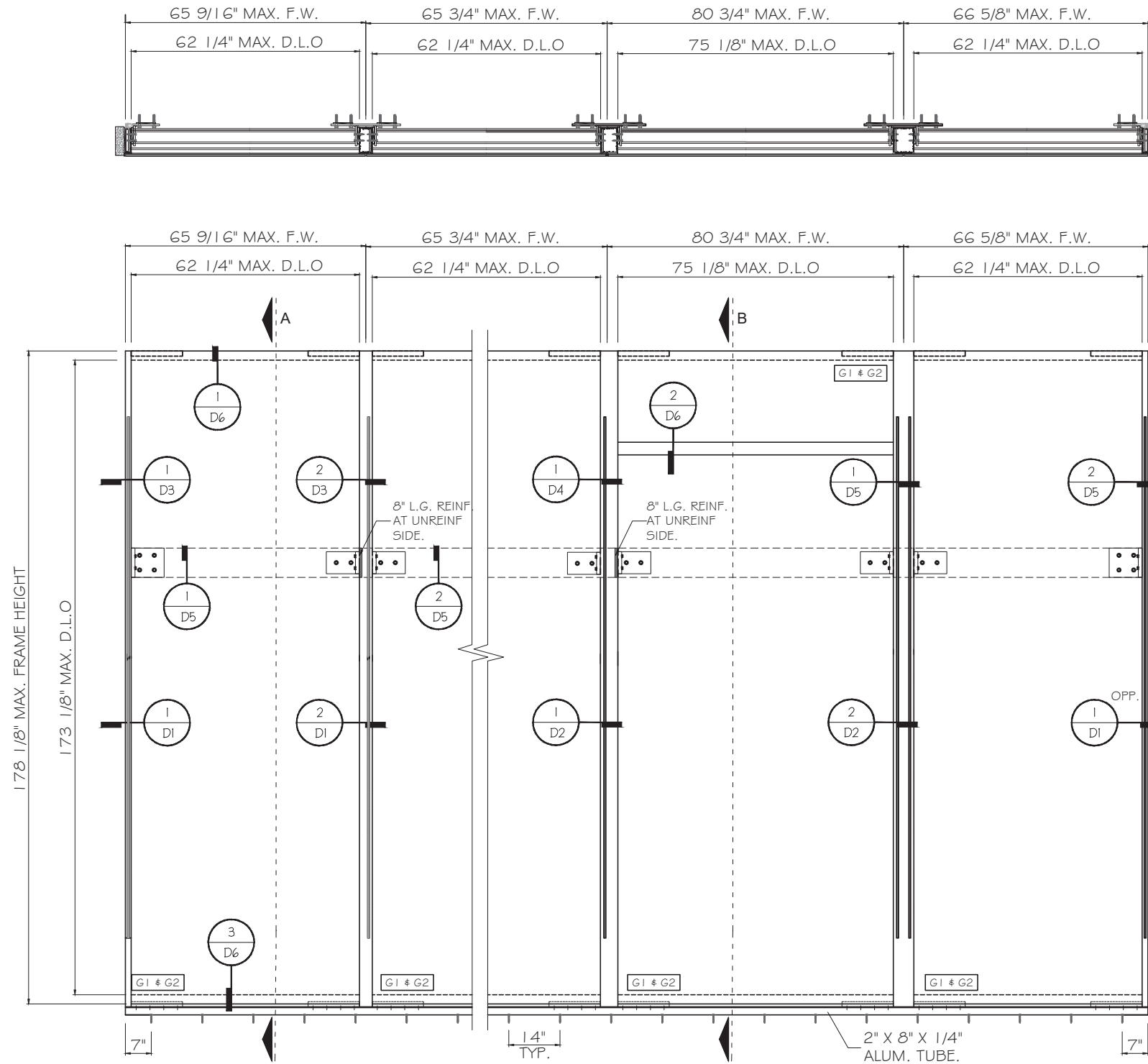


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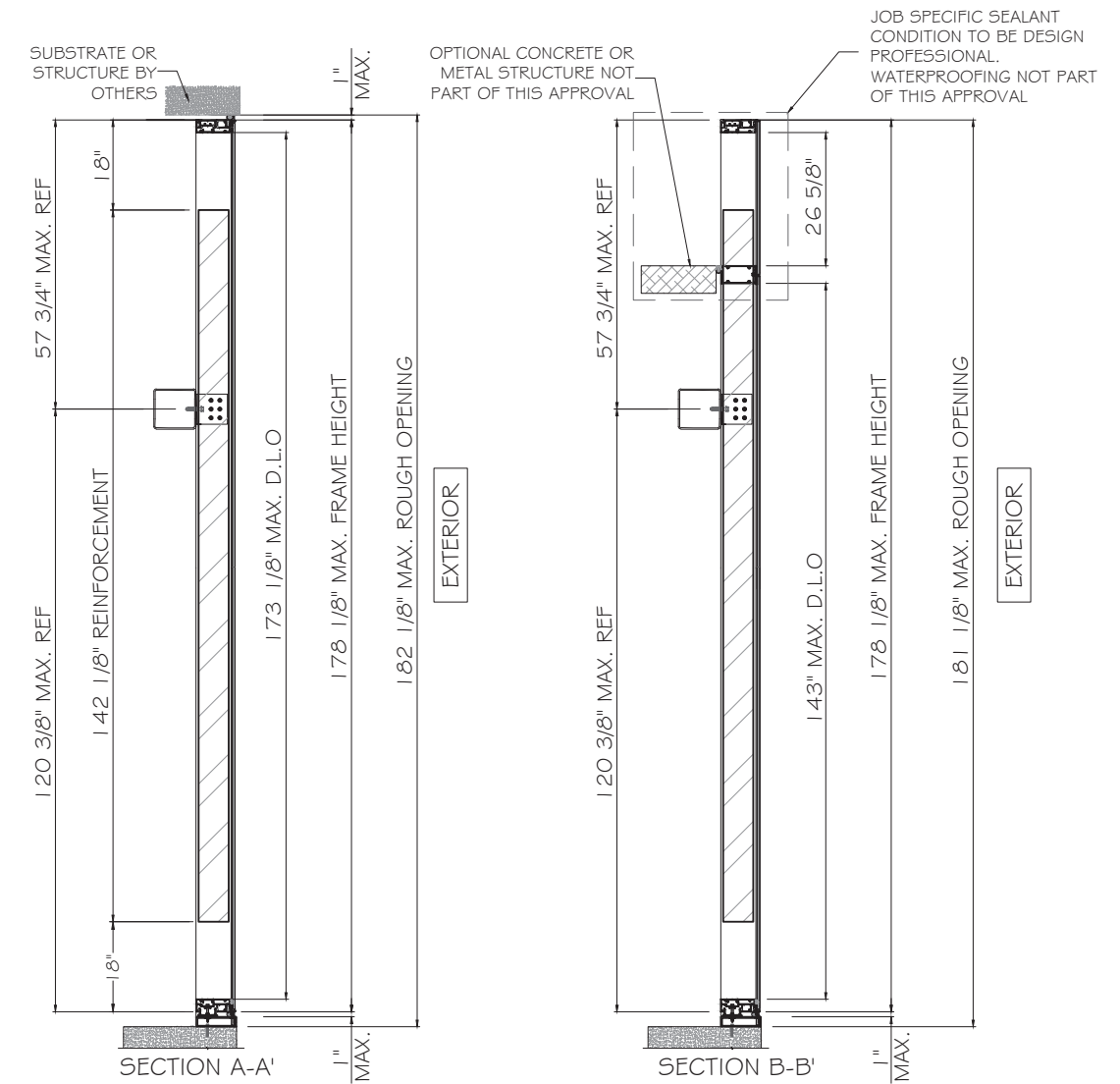
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Sheet No. 2 OF 14	



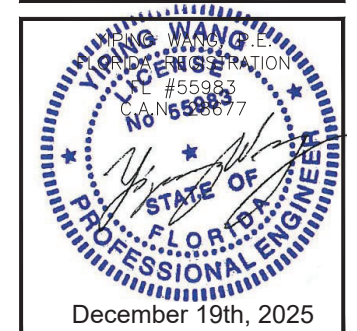
TYPICAL EXTERIOR ELEVATION

MAX. ALLOWABLE DESIGN LOAD FOR SIZES SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+ 174.0 PSF - 174.0 PSF



FLORIDA APPROVAL:

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1.	11.17.2025	JAMES	NEW APPROVAL
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SHEET NO.	E2		
3 OF 14			

TYPICAL ANCHORS:
(SEE ELEVATIONS FOR SPACING)

TYPE 'A': 5/16" DIA. ULTRACON BY 'DEWALT' (Fu=177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE

TYPE 'B': 3/8" DIA. HILTI KH-EZ SCREWS
DIRECTLY INTO CONCRETE
2 1/2" MIN. EMBED INTO CONCRETE

TYPE 'C': 5/16"-24 DRILL-FLEX BY 'ELCO'(GRADE 5)
INTO 1/4" MIN. THK. STEEL. (A36 MIN.) Fy=36 KSI MIN.
1/4" THK. ALUM. (6063-T6 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE:

INTO CONCRETE = 3 1/8" MIN.
INTO METAL STRUCTURE = 1 7/8" MIN.

CONCRETE f_c = 4000 PSI MIN. (NORMAL WEIGHT)

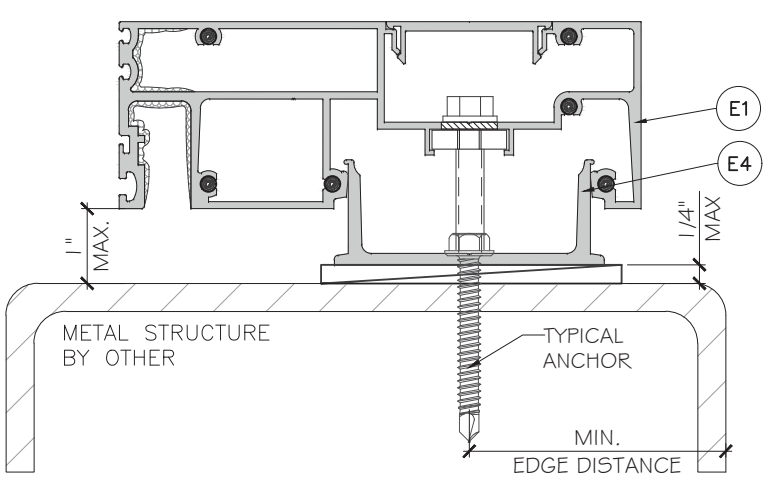
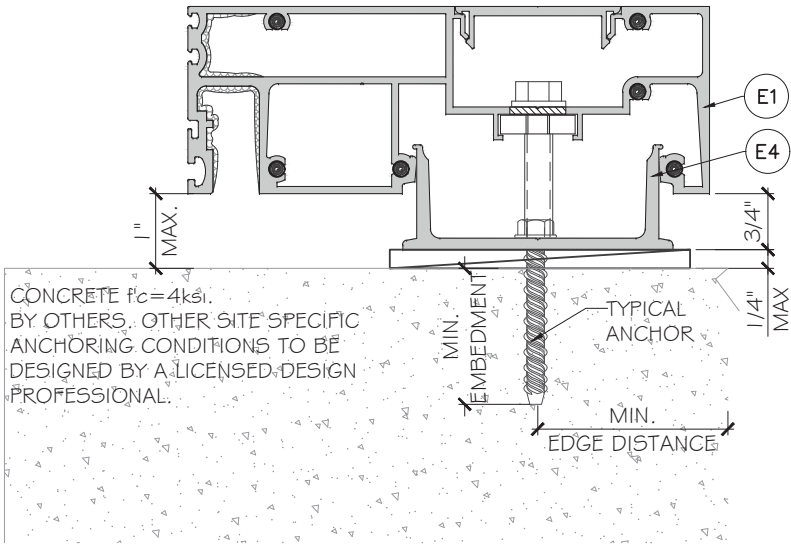
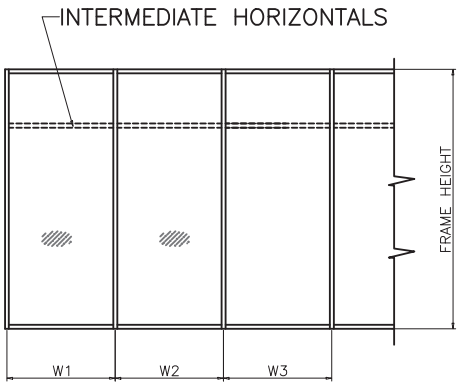
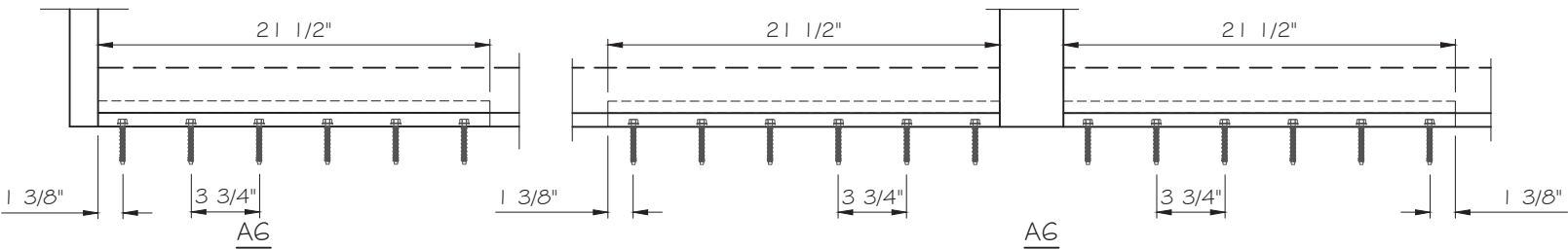
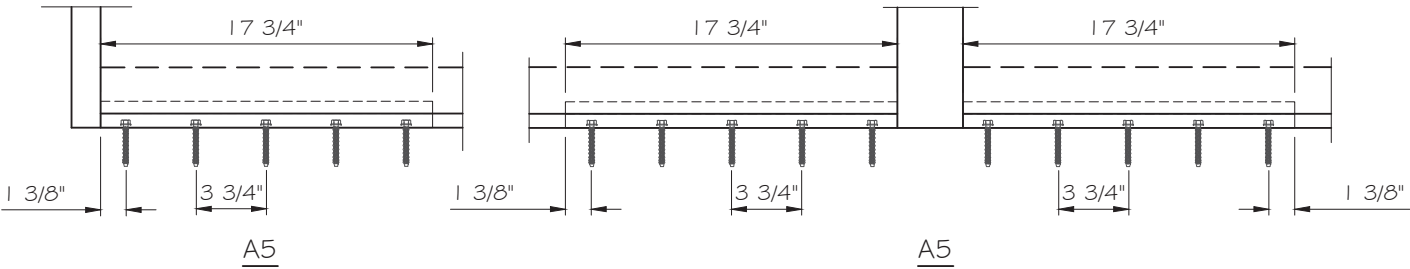
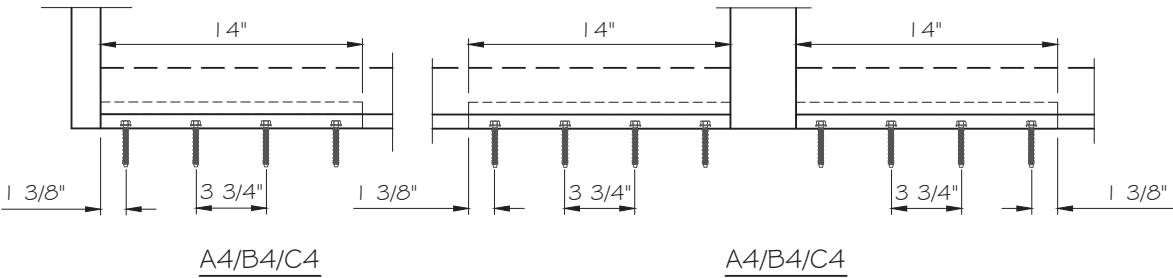


CHART 1 - SILL ANCHOR CAPACITIES - ± PSF (FOR SIZE SHOWN ON ELEVATIONS)				
W (INCH)	A4	A5	A6	B4/C4
48	166	174	174	174
54	148	174	174	174
60	133	166	174	174
66	121	151	174	174
72	111	139	166	174
73.69	108	135	162	174

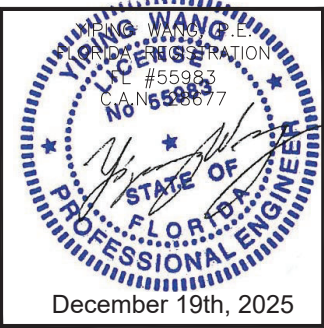
SILL ANCHOR LAYOUT AT JAMB AND MULLION



WIDTH (W) = W1
AT JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION

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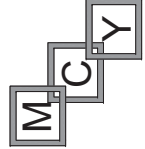
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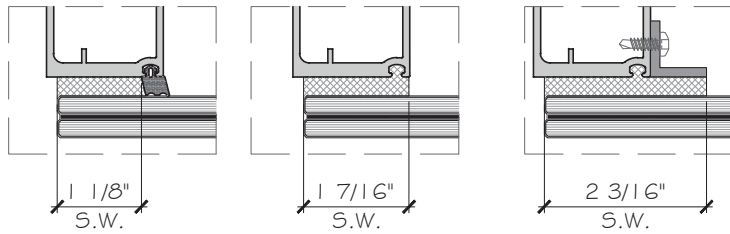
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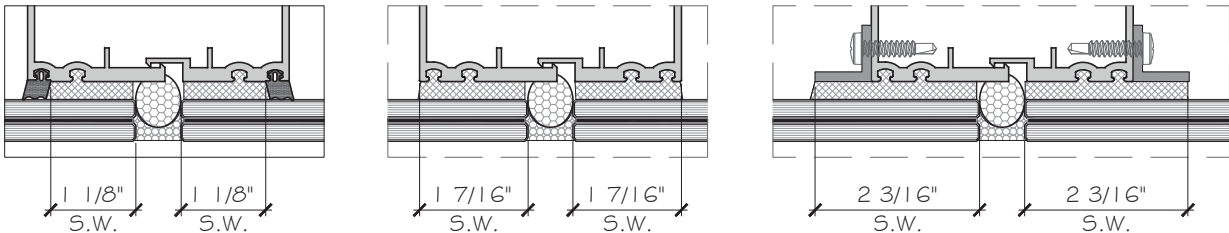
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AD25-52

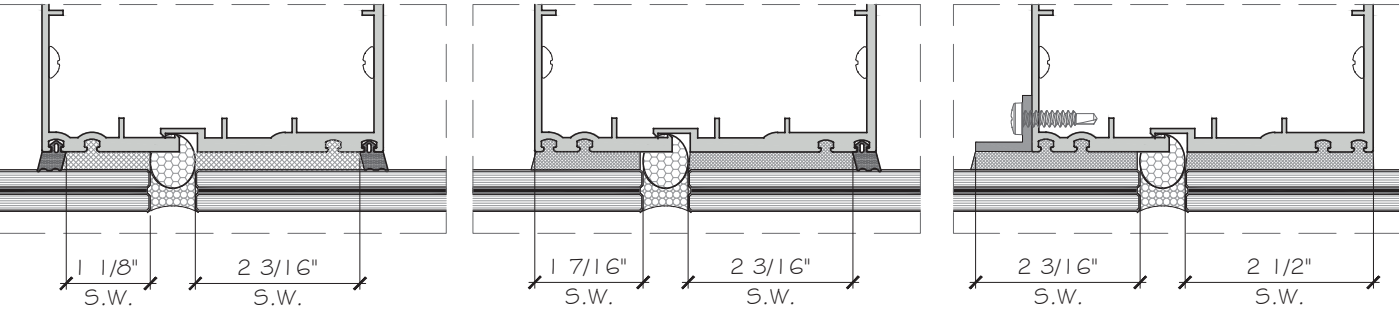
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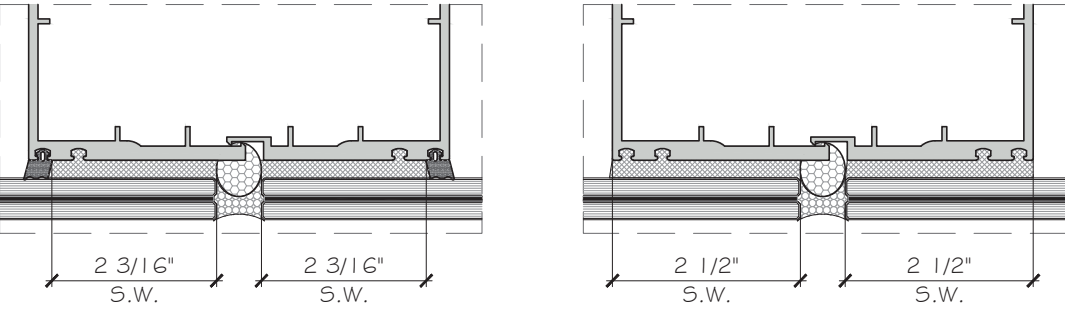
AT JAMB



AT MULLION

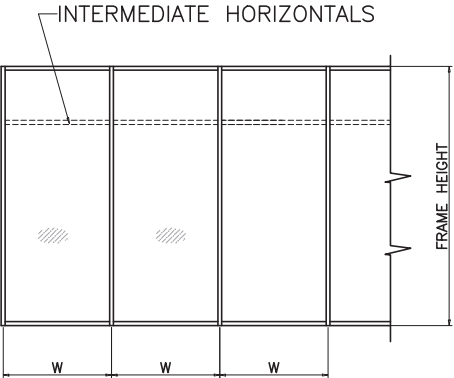


AT MULLION



AT MULLION

SILICONE WIDTH CAPACITIES - ± PSF				
FRAME WIDTH CENTER TO CENTER	SILICONE WIDTH (S.W.) (INCH)			
INCH	1 1/8	1 7/16	2 3/16	2 1/2
48	135	172.5	174	174
54	120	153.3	174	174
60	108	138.0	174	174
65.75	98.6	125.9	174	174
66	98.2	125.5	174	174
72	-	-	174	174
78	-	-	161.5	174
80.75	-	-	156.0	174

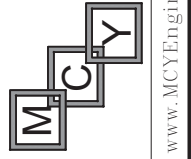


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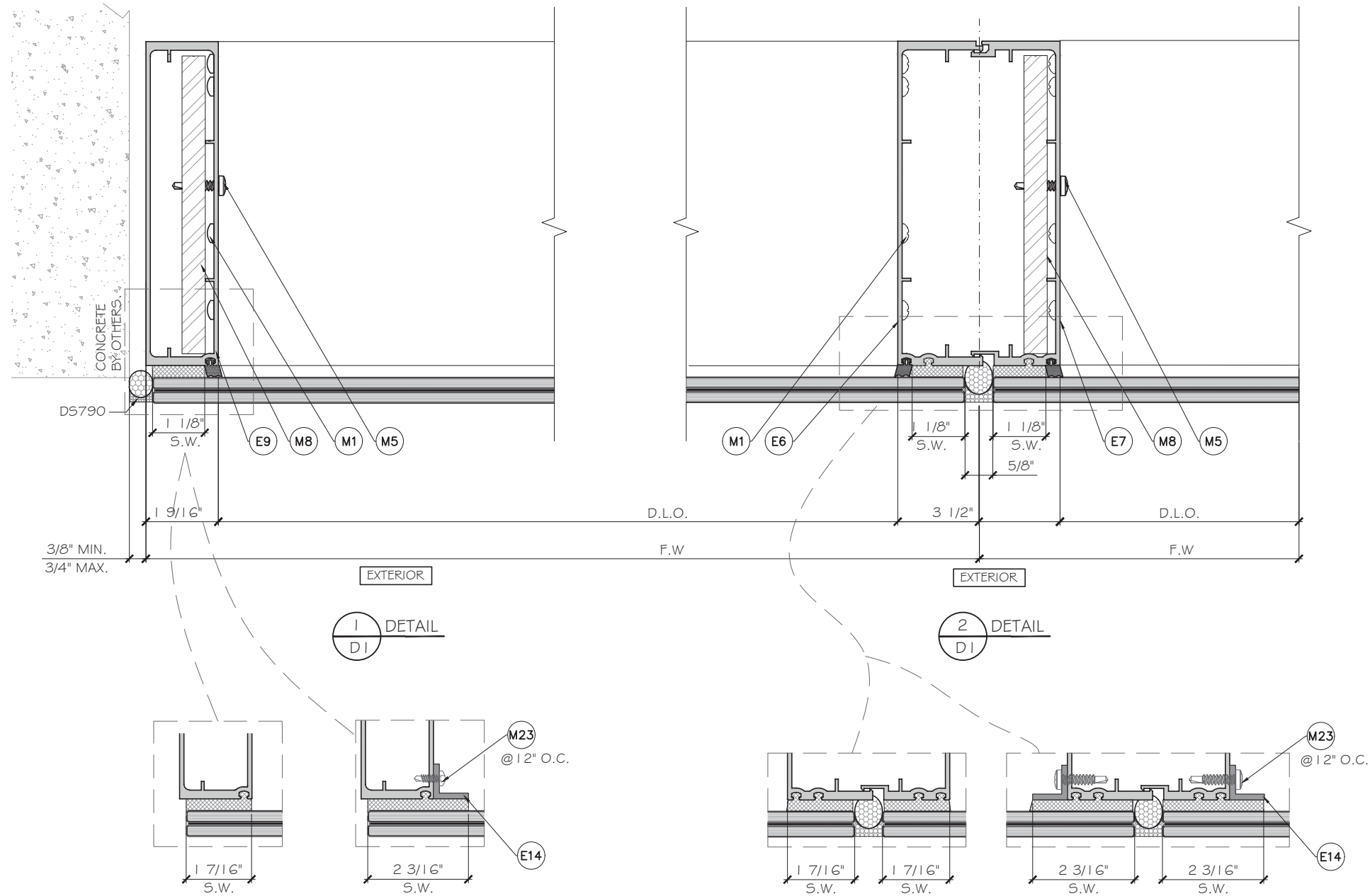
YIPING WANG, P.E.
FLORIDA REGISTRATION
#55983
C.A. No. 6677
December 19th, 2025

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1.	11.17.2025	JAMES	NEW APPROVAL
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Sheet No. 5 OF 14			

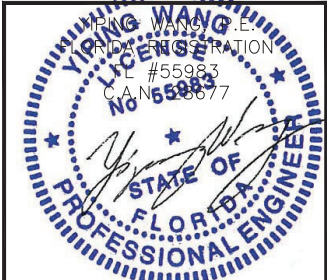


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SILICONE OPTIONS SEE SHEET S1
FOR CAPACITIES

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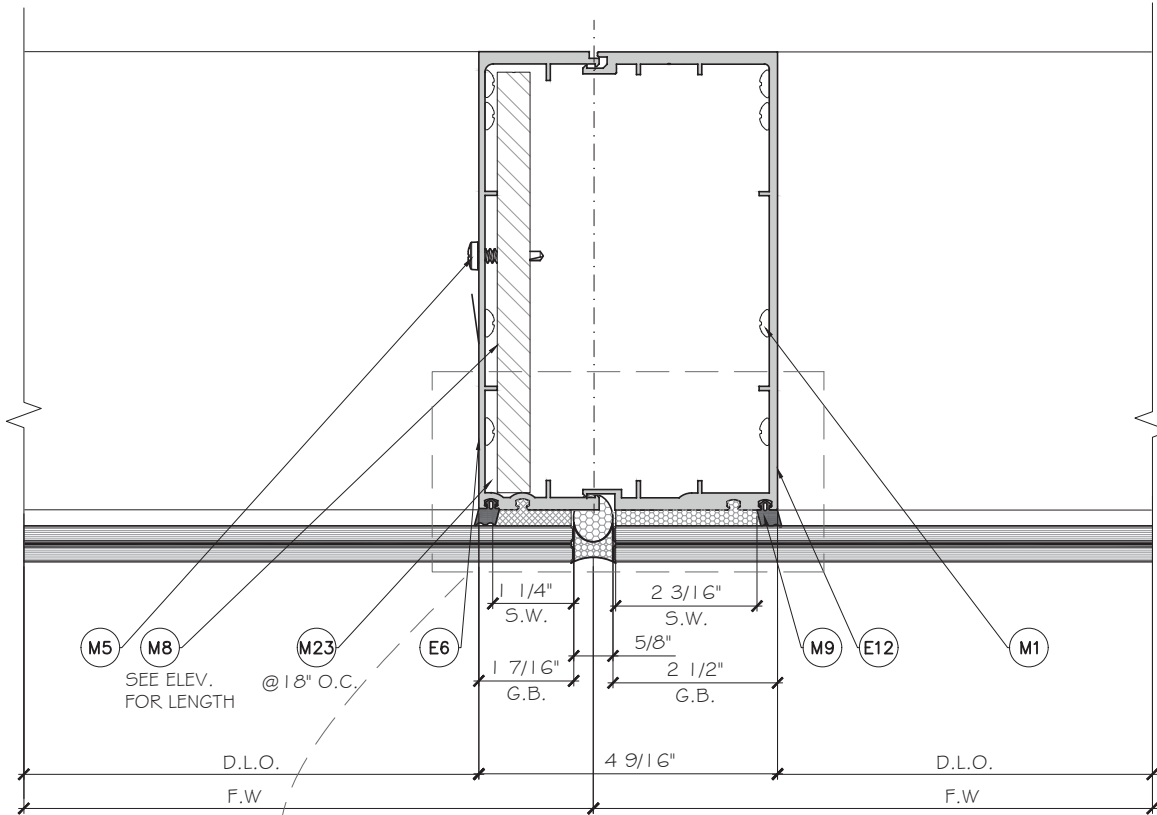


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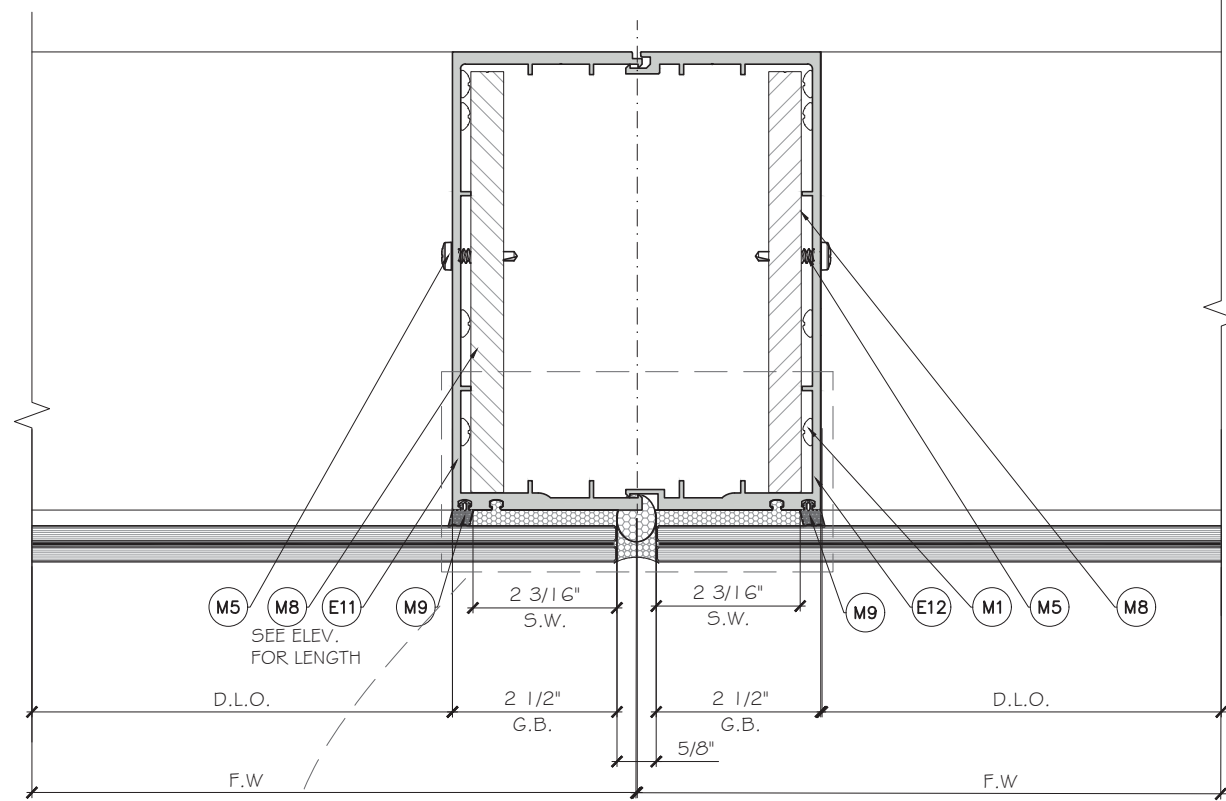
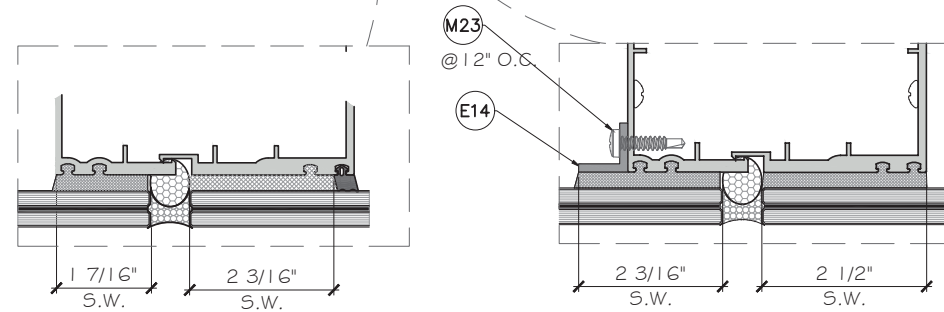
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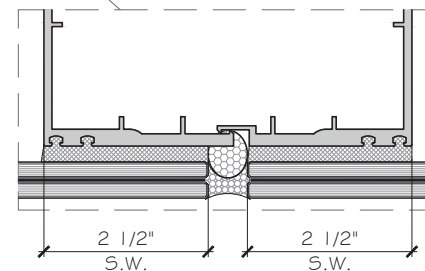
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D1			
6 OF 14			



EXTERIOR
I
D2
DETAIL

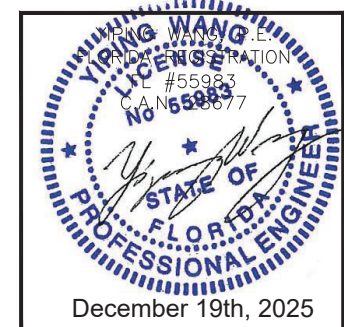


EXTERIOR
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D2
DETAIL



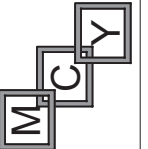
SILICONE OPTIONS SEE SHEET S1
FOR CAPACITIES

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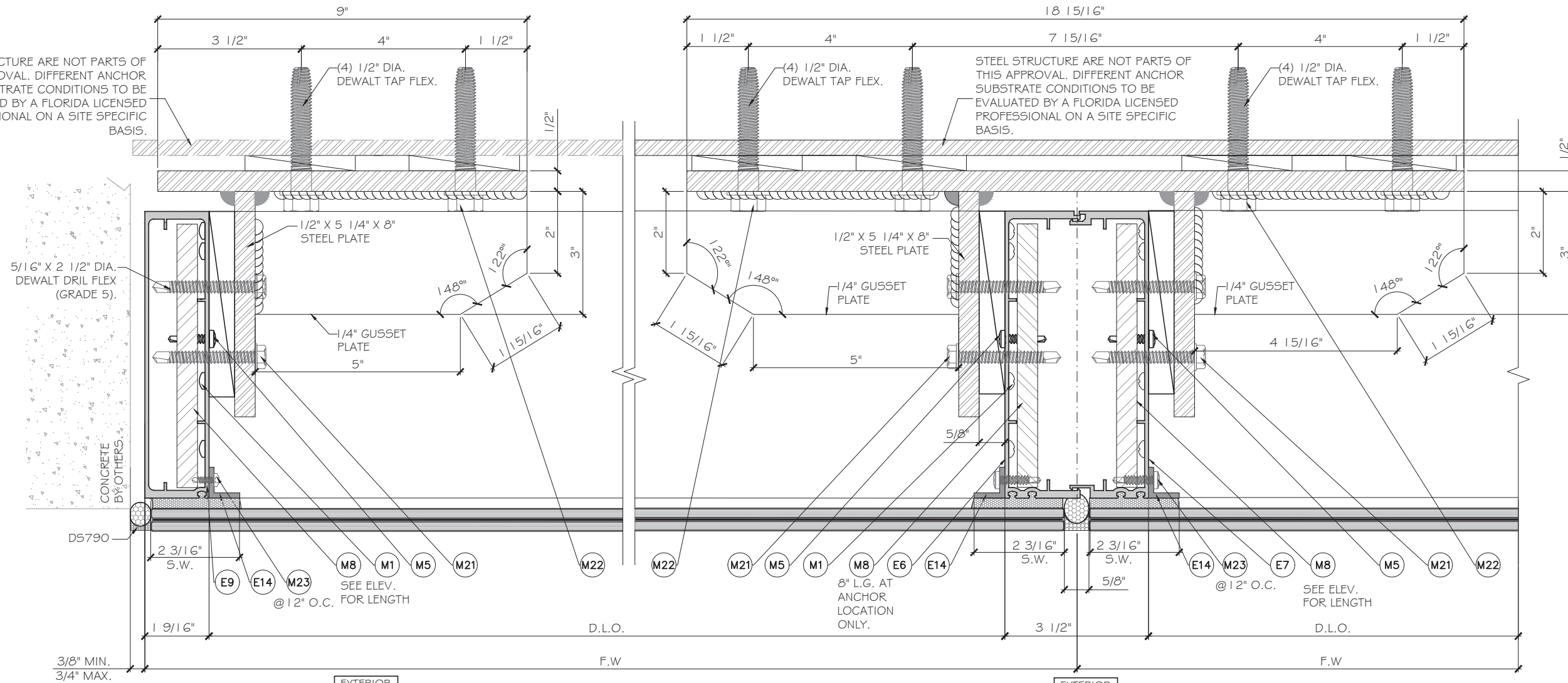


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D2			
7 OF 14			

STEEL STRUCTURE ARE NOT PARTS OF THIS APPROVAL. DIFFERENT ANCHOR SUBSTRATE CONDITIONS TO BE EVALUATED BY A FLORIDA LICENSED PROFESSIONAL ON A SITE SPECIFIC BASIS.



SILICONE OPTIONS SEE SHEET S1 FOR CAPACITIES

FLORIDA APPROVAL:
FL45940.1

YIPING WANG, P.E.
Professional Engineer
License #55983
C.A. No. 55983

December 19th, 2025

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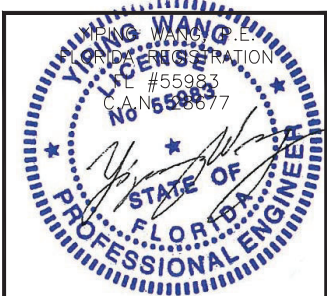
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D3

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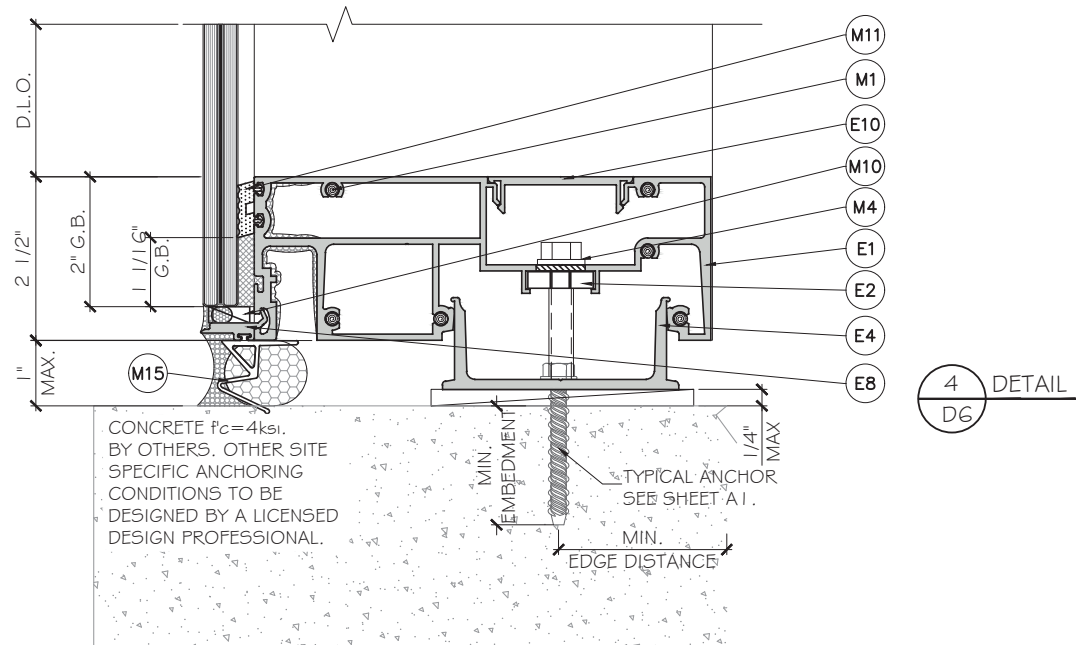
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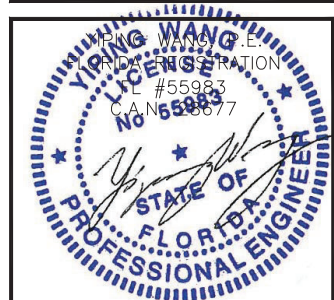
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mcye@mcyeengineering.com



CONCRETE $f'_c = 4 \text{ksi}$.
BY OTHERS. OTHER SITE
SPECIFIC ANCHORING
CONDITIONS TO BE
DESIGNED BY A LICENSED
DESIGN PROFESSIONAL.

TYPICAL ANCHOR
SEE SHEET A I.
MIN.
DISTANCE

FL45940.1



December 19th, 2025

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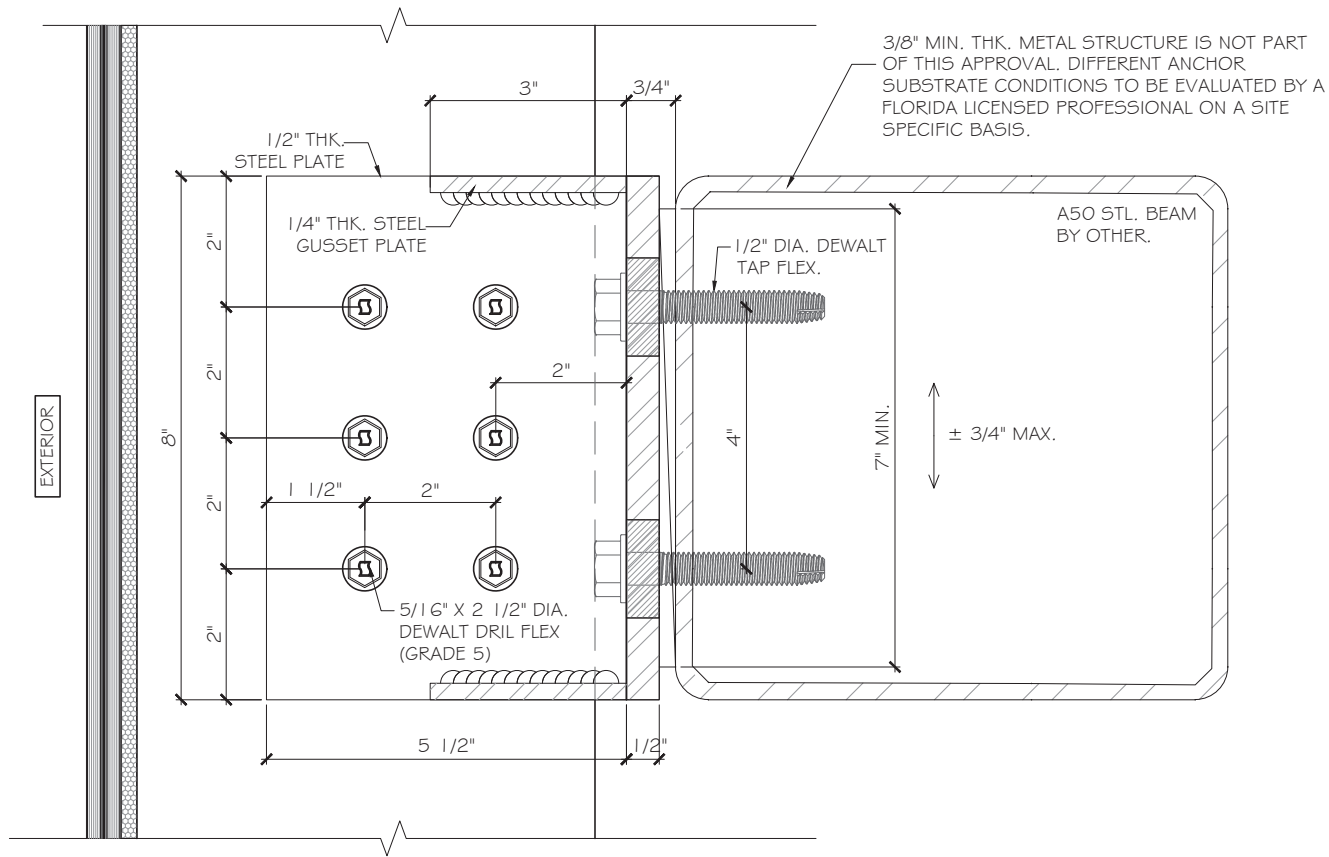
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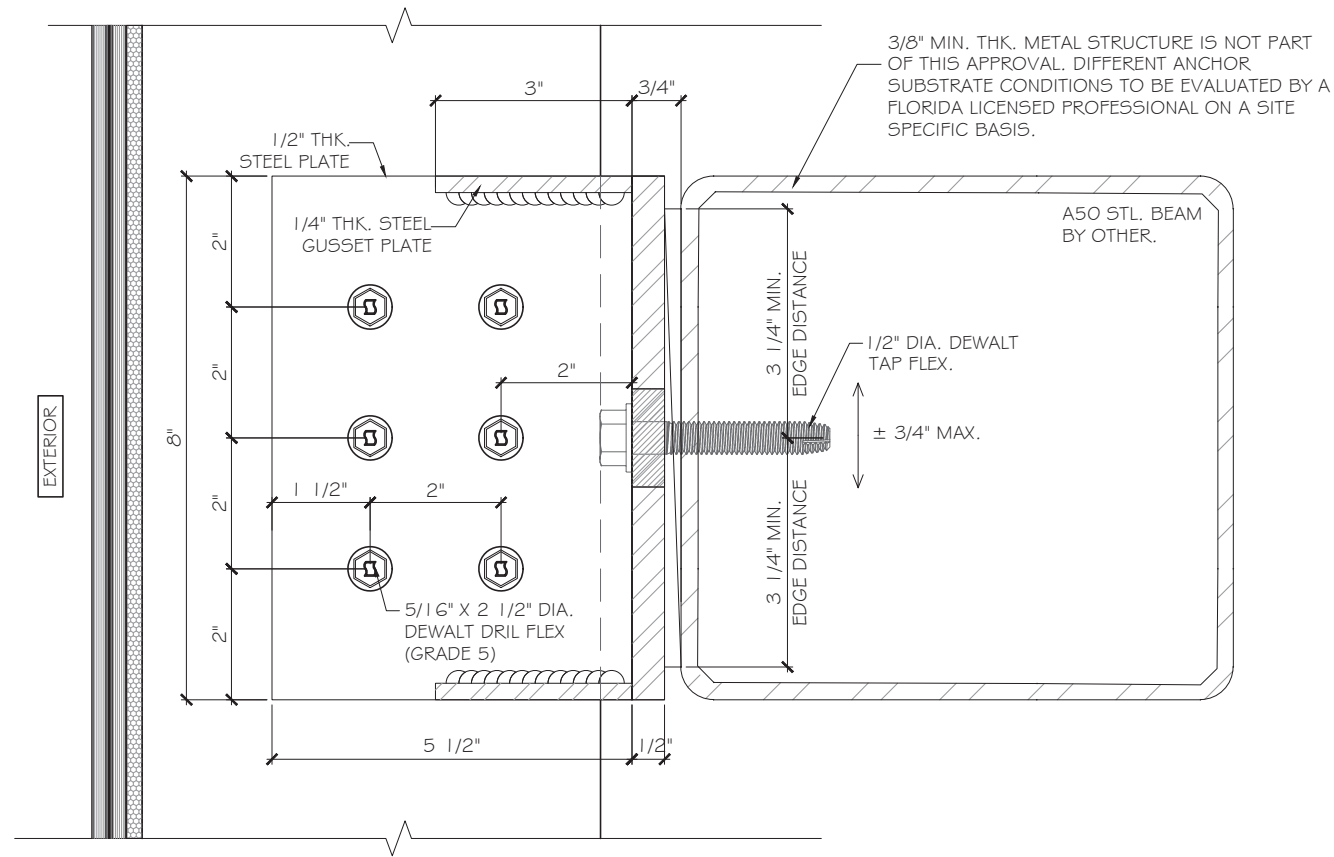
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1
D7
DETAIL
AT JAMB



2
D7
DETAIL
AT MULLION

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FLORIDA REGISTRATION
#55983
C.A. No. 65677
December 19th, 2025

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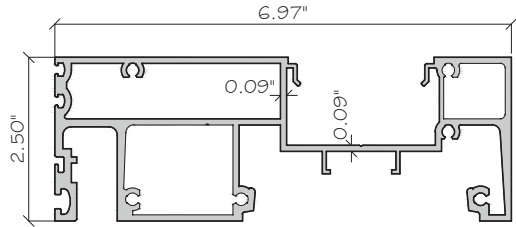
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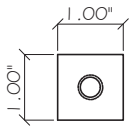
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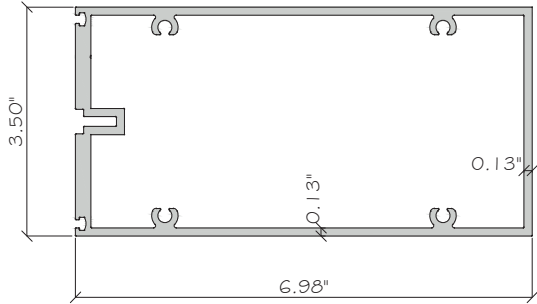
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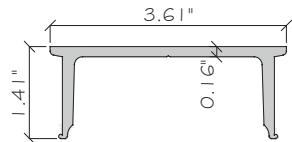
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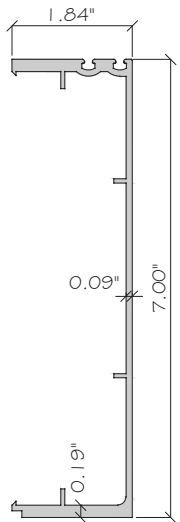
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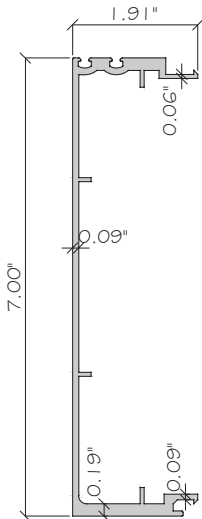
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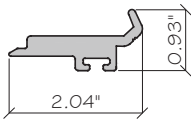
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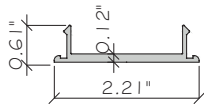
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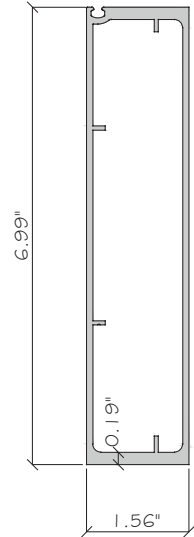
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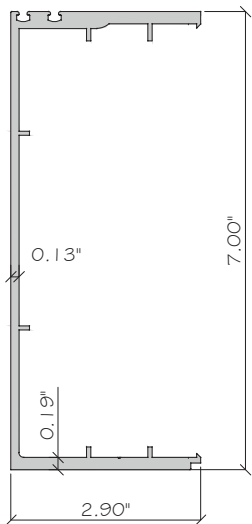
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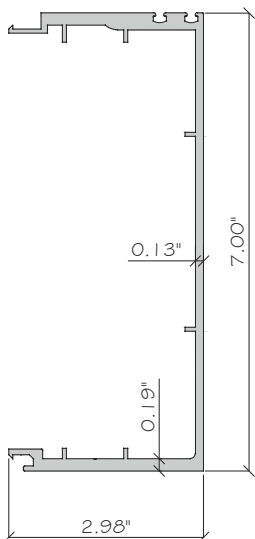
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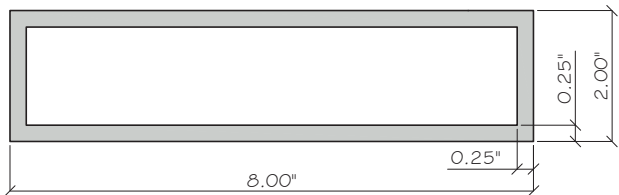
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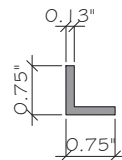
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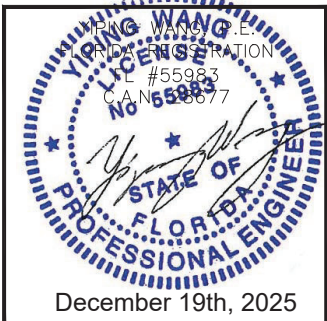


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