

SERIES ES-WW8860 ALUMINUM WINDOW WALL
LARGE MISSILE IMPACT

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023)/9TH EDITION (2026) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS ARE RATED FOR LARGE MISSILE IMPACT (LEVEL D). IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- 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.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023)/9TH EDITION (2026) SECTION AS APPLICABLE.
- METAL 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.
- ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION SEALED WITH SILICONE SEALANT.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.
- FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
- CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

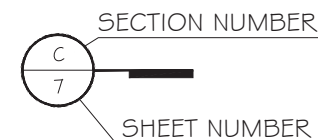
INSTRUCTIONS:

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.
- STEP 2: SEE CHARTS ON SHEET G1 & G2 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE BASED ON APPLICABLE WIND DURATION.
- STEP 3: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET E1. THE CAPACITY SHOULD EXCEED THE REQUIRED DESIGN LOAD.
- STEP 4: USING CHART ON SHEETS A1 TO SELECT ANCHOR OPTIONS WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5: THE LOWEST VALUE RESULTING FROM STEPS 2, 3, AND 4 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER

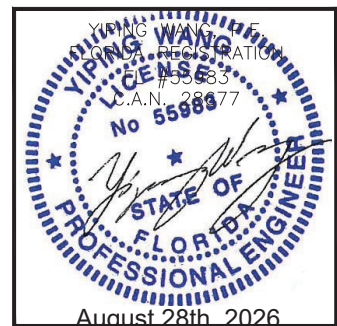


LIMITATIONS OF USE

- 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:

FL44620.1



SERIES ES-WW8860 ALUMINUM WINDOW WALL-L.M.I.

MCY ENGINEERING, INC.

E.S. WINDOWS, INC.

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Drawn Date	
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Scale

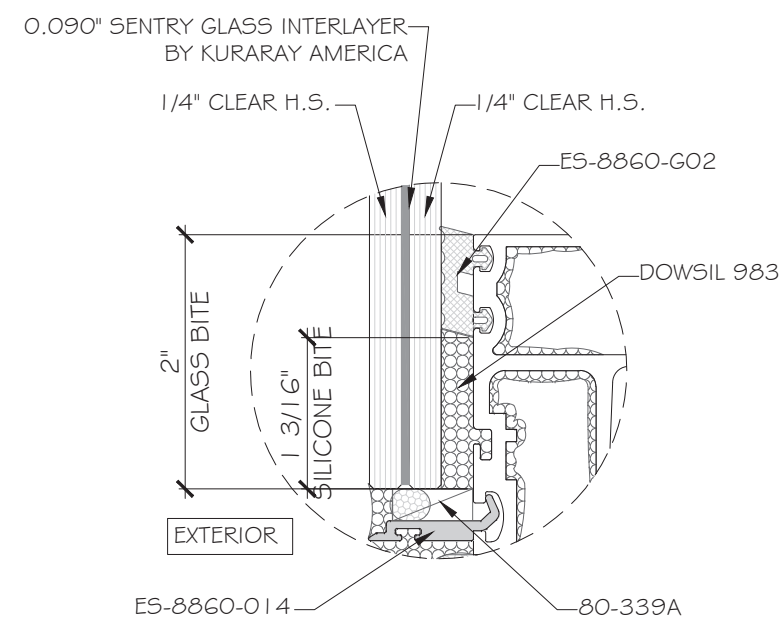
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AD23-57

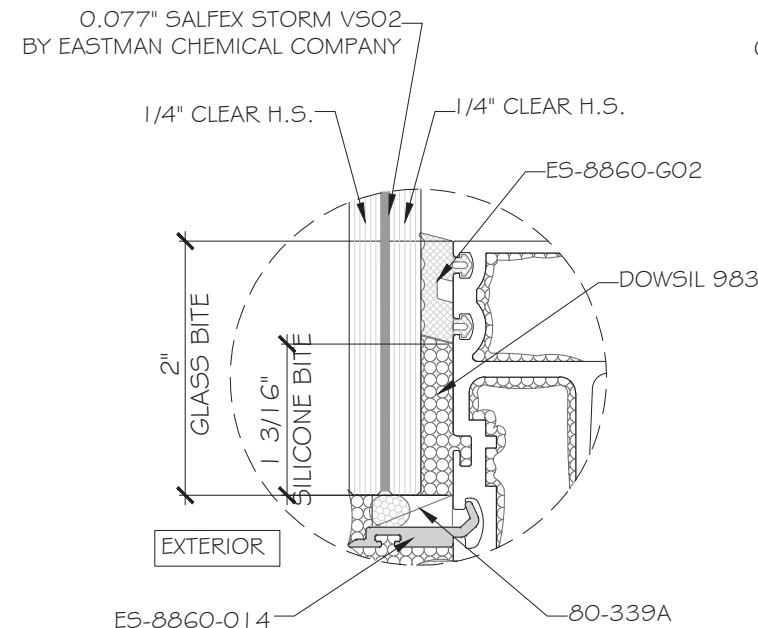
COVER

Sheet No.

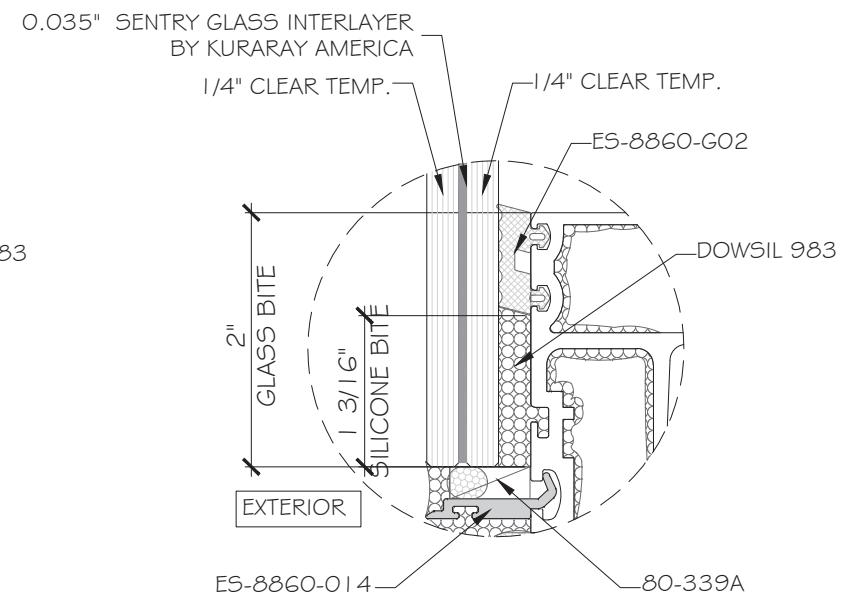
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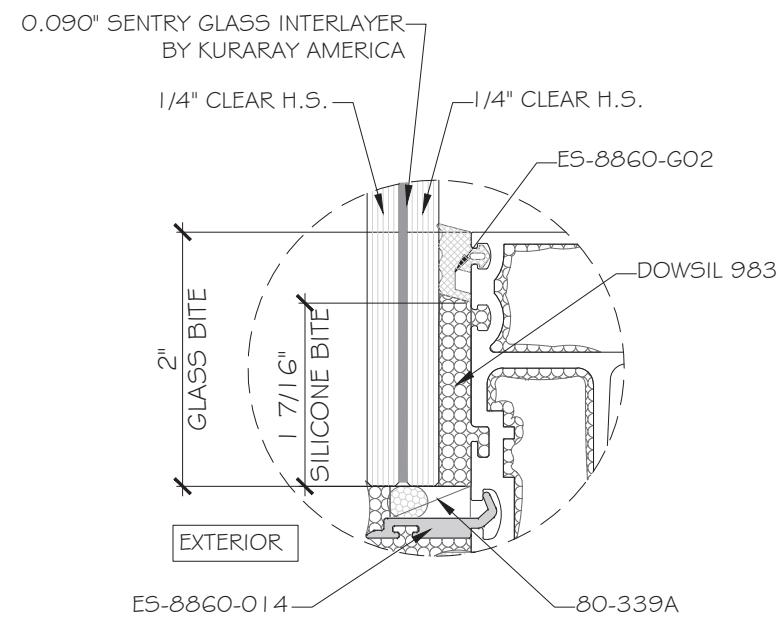
GLASS TYPE "G1"
9/16" LAMINATED GLASS
(L.M.I.)



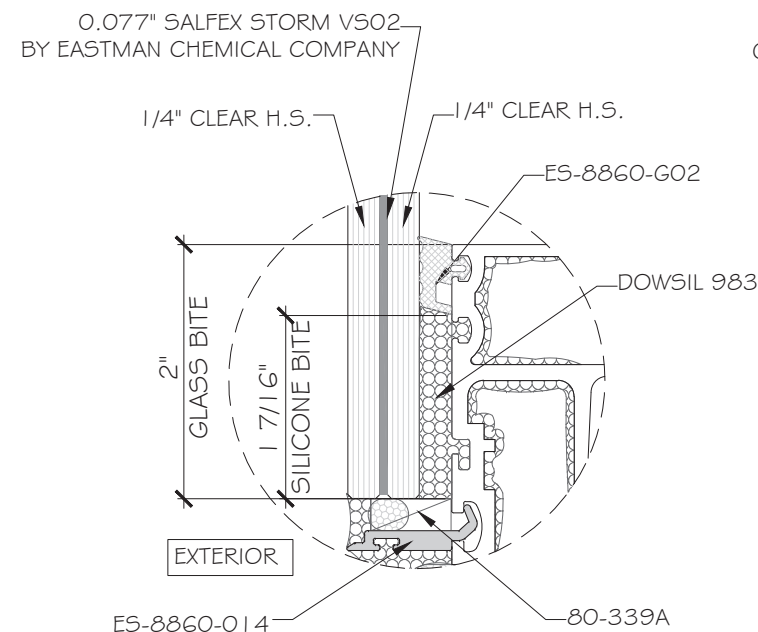
GLASS TYPE "G2"
9/16" LAMINATED GLASS
(L.M.I.)



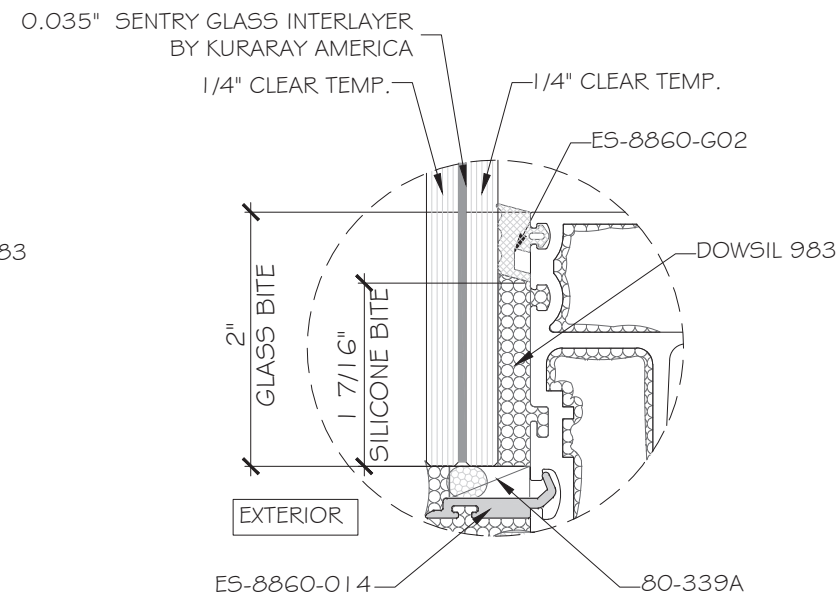
GLASS TYPE "G3"
9/16" LAMINATED GLASS
(FOR SLAB COVER ONLY)
MAX. SIZE=60"X32"



GLASS TYPE "G1"
9/16" LAMINATED GLASS
(L.M.I.)



GLASS TYPE "G2"
9/16" LAMINATED GLASS
(L.M.I.)

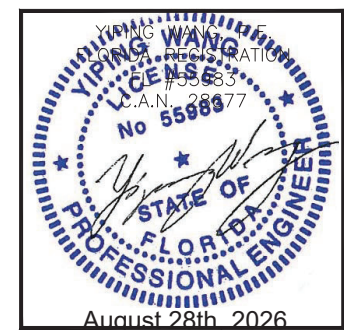


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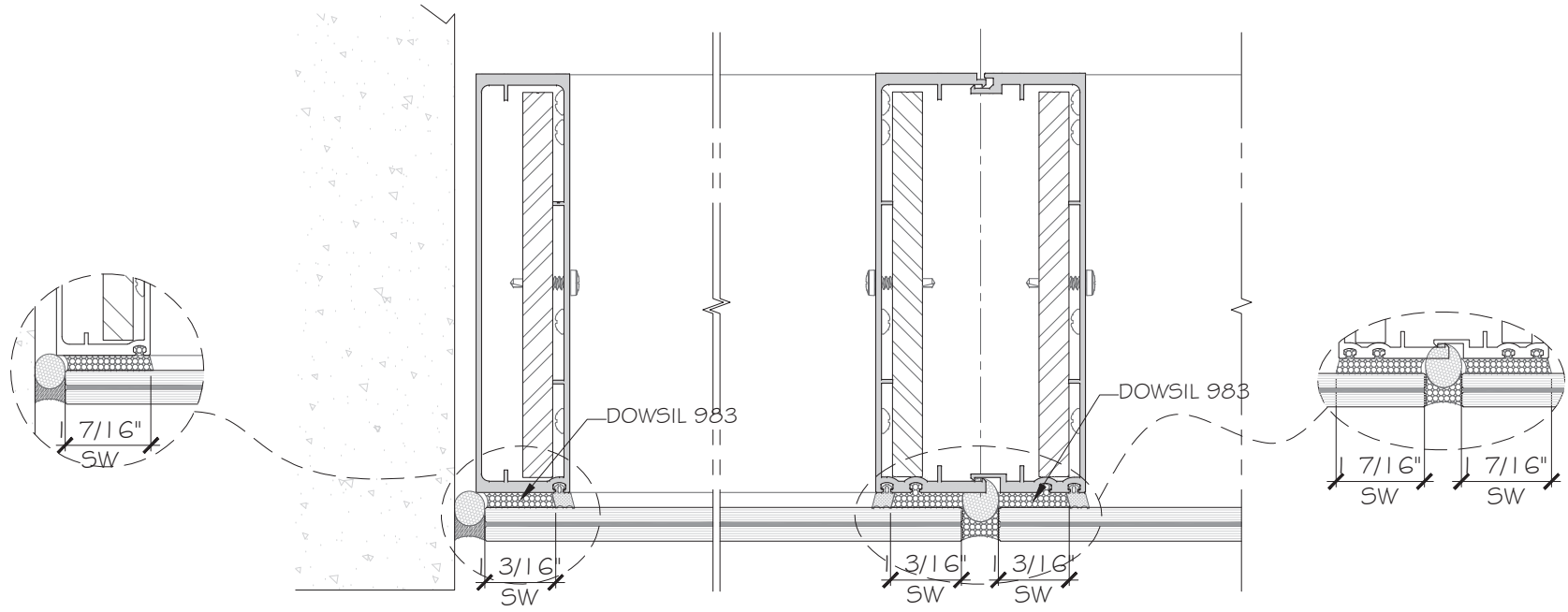
GLASS CHART					
GLASS TYPE	DLO WIDTH (in)	DLO HEIGHT (in)	DLO AREA (ft ²)	LMI/SMI	DESIGN LOAD (+/-) psf
G1	55.50	75.25	29.00	LMI	155.0
G2	44.50	153.00	47.28	LMI	70.0
G3	55.88	29.00	11.25	SLAB COVER	155.0

NOTE:
GLASS COMPLIES WITH ASTM E1300-16
OR 24 (3 SEC. GUSTS).

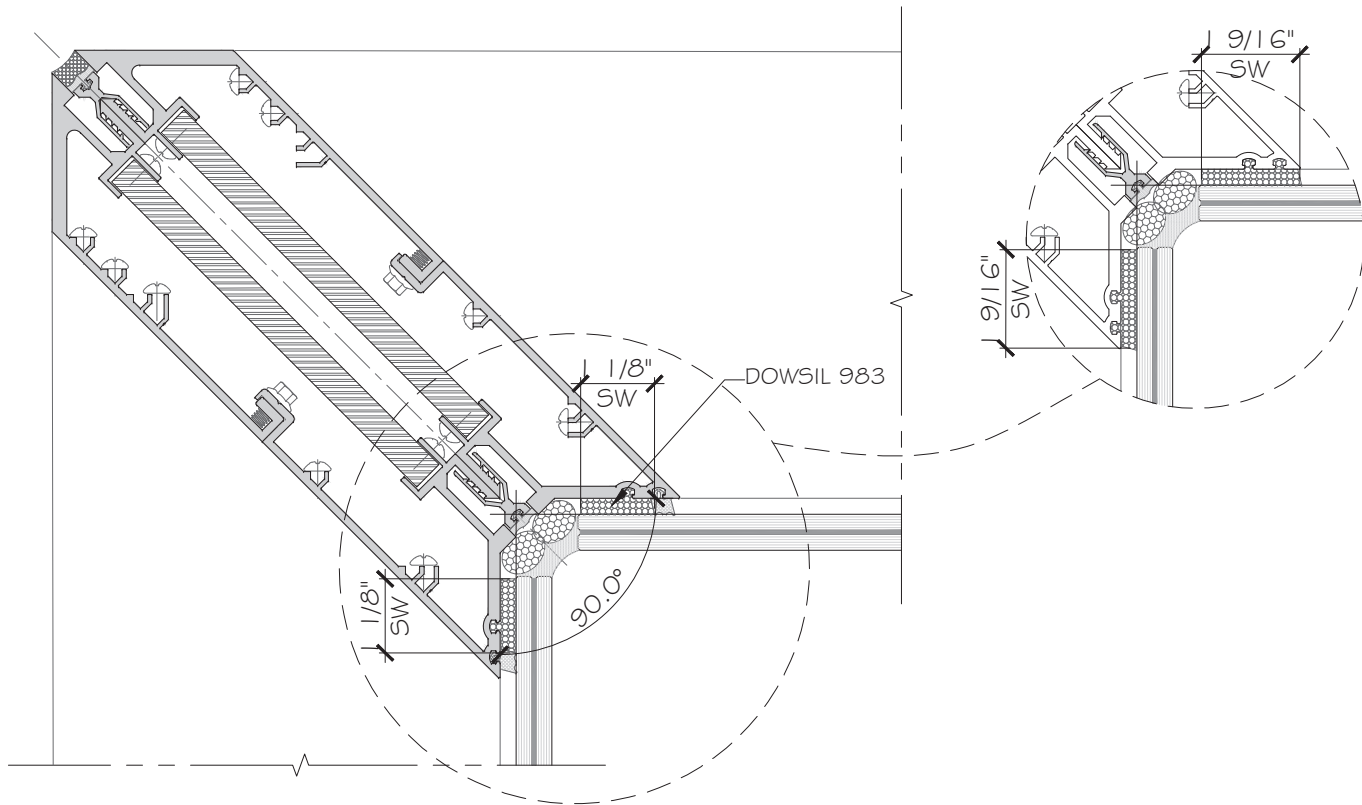
FLORIDA APPROVAL:
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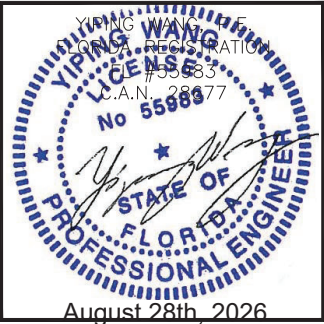


90° INSIDE CORNER

SILICONE CAPACITY CHART		
SILICONE WIDTH SW(in)	FRAME WIDTH FW(in)	DESIGN LOAD (+/- psf)
1 3/16"	42.00	155.0
	48.00	142.5
	54.00	126.7
	60.00	114.0
1 7/16"	48.00	155.0
	54.00	153.3
	60.00	138.0

SILICONE WIDTH SW(in)	FRAME WIDTH FW(in)	DESIGN LOAD (+/- psf)
1-1/8"	42.00	154.3
	48.00	135.0
	54.00	120.0
	60.00	108.0
1-9/16"	60.00	150.0

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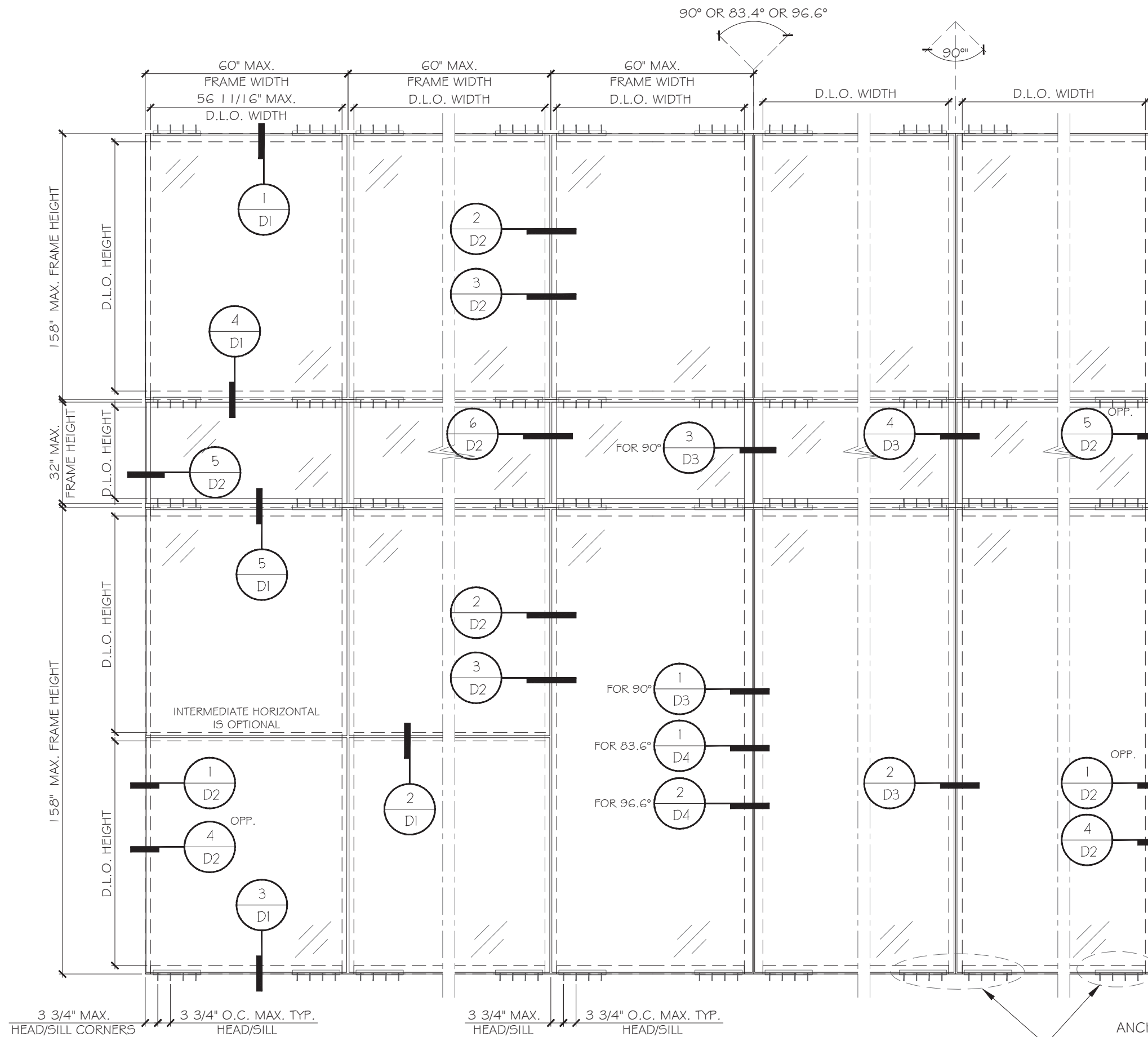


SERIES ES-WW860 ALUMINUM WINDOW WALL-L.M.I.

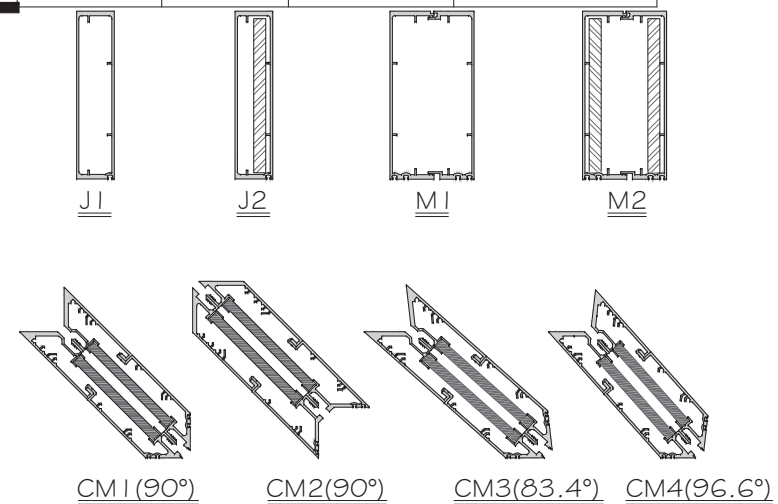
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Rev. No.	Date	Drawn By	Description
R1	08-28-2026	James	FBC 2026
RO	11-21-2023	James	NEW APPLICATION
Drawing No. AD23-57			
Sheet No. 03 OF 13			

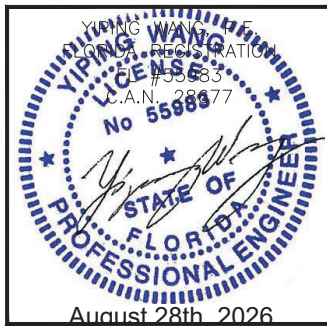


MULLION CAPACITY CHART			
FRAME WIDTH W(in)	FRAME HEIGHT FH(in)	MULLION TYPE	DESIGN LOAD (+/-)psf
48.0	158.0	J1	70.0
45.6	158.0	M1	70.0
48.0	158.0	M1	66.6
59.0	158.0	M2	155.0
60.0	158.0	M2	152.8
60.0	158.0	J2	155.0
60.0	158.0	CM1/CM2/C M3/CM4	155.0



ANCHOR TYPES A, B OR C,
SEE SHEET A1 FOR QUANTITIES
AND CAPACITIES

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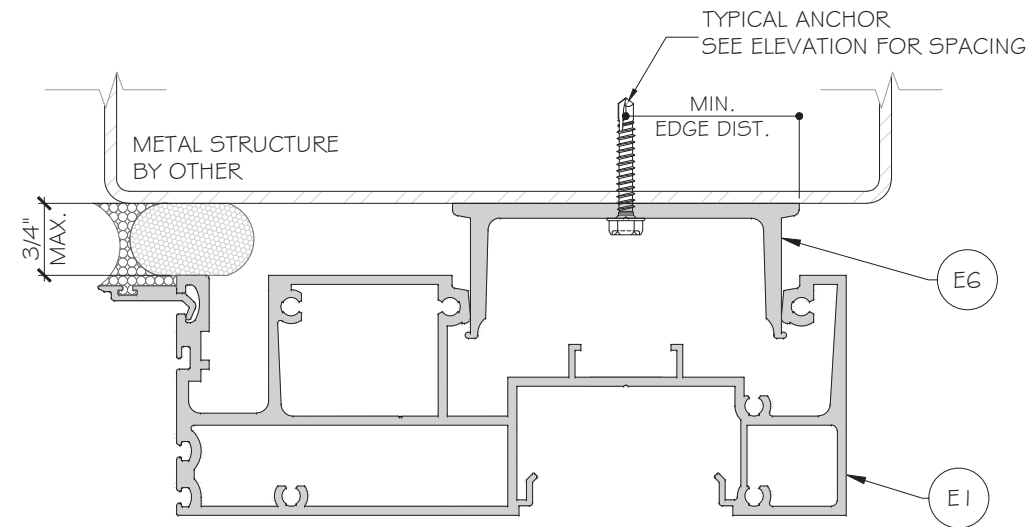
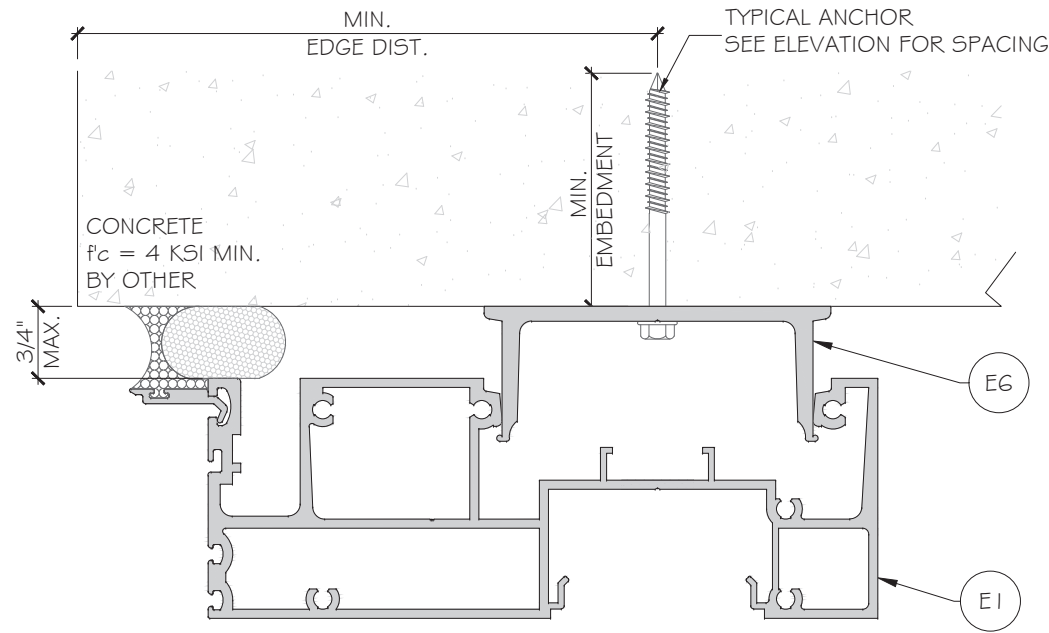
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R1	08.28.2026	James	FBC 2026
RO	12.19.2023	James	NEW APPLICATION
Drawing No. AD23-57			
Sheet No. 04 OF 13			



TYPICAL ANCHOR CONDITION:

TRIB WIDTH W(in)	FRAME HEIGHT H(in)	ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)						
		A4	A5	A6	B4	B5	B6	C4
36.0	158.0	143.0	155.0	155.0	155.0	155.0	155.0	155.0
42.0	158.0	122.6	153.2	155.0	155.0	155.0	155.0	155.0
48.0	158.0	107.2	134.1	155.0	145.8	155.0	155.0	155.0
54.0	158.0	95.3	119.2	143.0	129.6	155.0	155.0	155.0
60.0	158.0	85.8	107.2	128.7	116.7	145.8	155.0	155.0

ANCHOR @LOCATION WITH SLAB COVER:

TRIB WIDTH W(in)	FRAME HEIGHT H(in)	SLAB COVER HEIGHT Hs(in)	ANCHOR LOAD CAPACITY - PSF EXT.(+) & INT.(-)					
			A4	A5	A6	B4	B5	B6
36.0	158.0	32.0	118.9	148.6	155.0	155.0	155.0	155.0
42.0	158.0	32.0	101.9	127.4	152.9	138.6	155.0	155.0
48.0	158.0	32.0	89.2	111.5	133.8	121.3	151.6	155.0
54.0	158.0	32.0	79.3	99.1	118.9	107.8	134.7	155.0
60.0	158.0	32.0	71.3	89.2	107.0	97.0	121.3	145.5

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

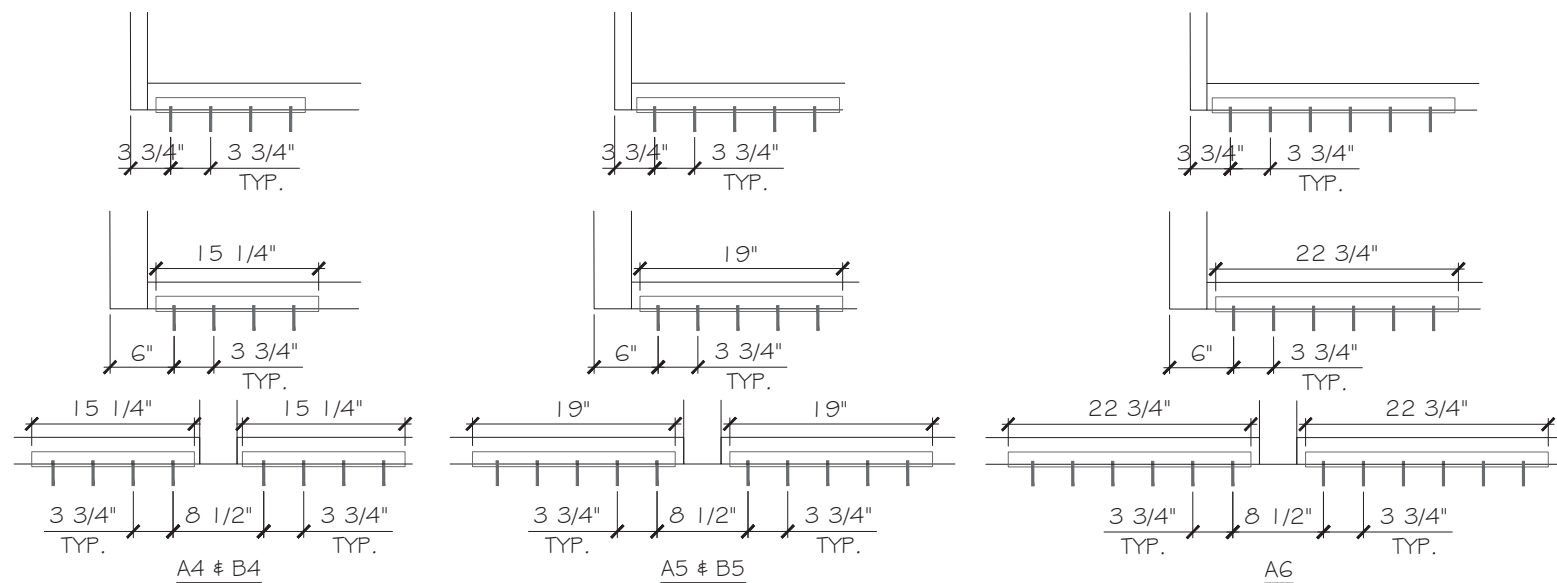
TYPE 'B': 3/8" DIA. 'DEWALT' SCREW BOLT+
DIRECTLY INTO CONCRETE
2" MIN. EMBED INTO CONCRETE

TYPE 'C': 5/16" DIA. DRILL-FLEX BY 'ELCO'(GRADE 5)
INTO 3/16" MIN. THK. STEEL(A36 MIN.)
STEEL: Fy=36 KSI MIN.

TYPICAL EDGE DISTANCE:

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

CONCRETE f'c = 4000 PSI MIN. (NORMAL WEIGHT)



TYPICAL ANCHORS:

A4 = (4) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
B4 = (4) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
C4 = (4) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION

A5 = (5) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
B5 = (5) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION

A6 = (6) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
B6 = (6) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION

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SERIES ES-WW8860 ALUMINUM WINDOW WALL-L.M.I.

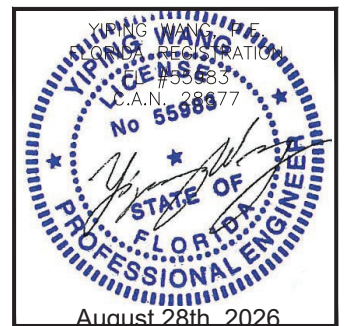
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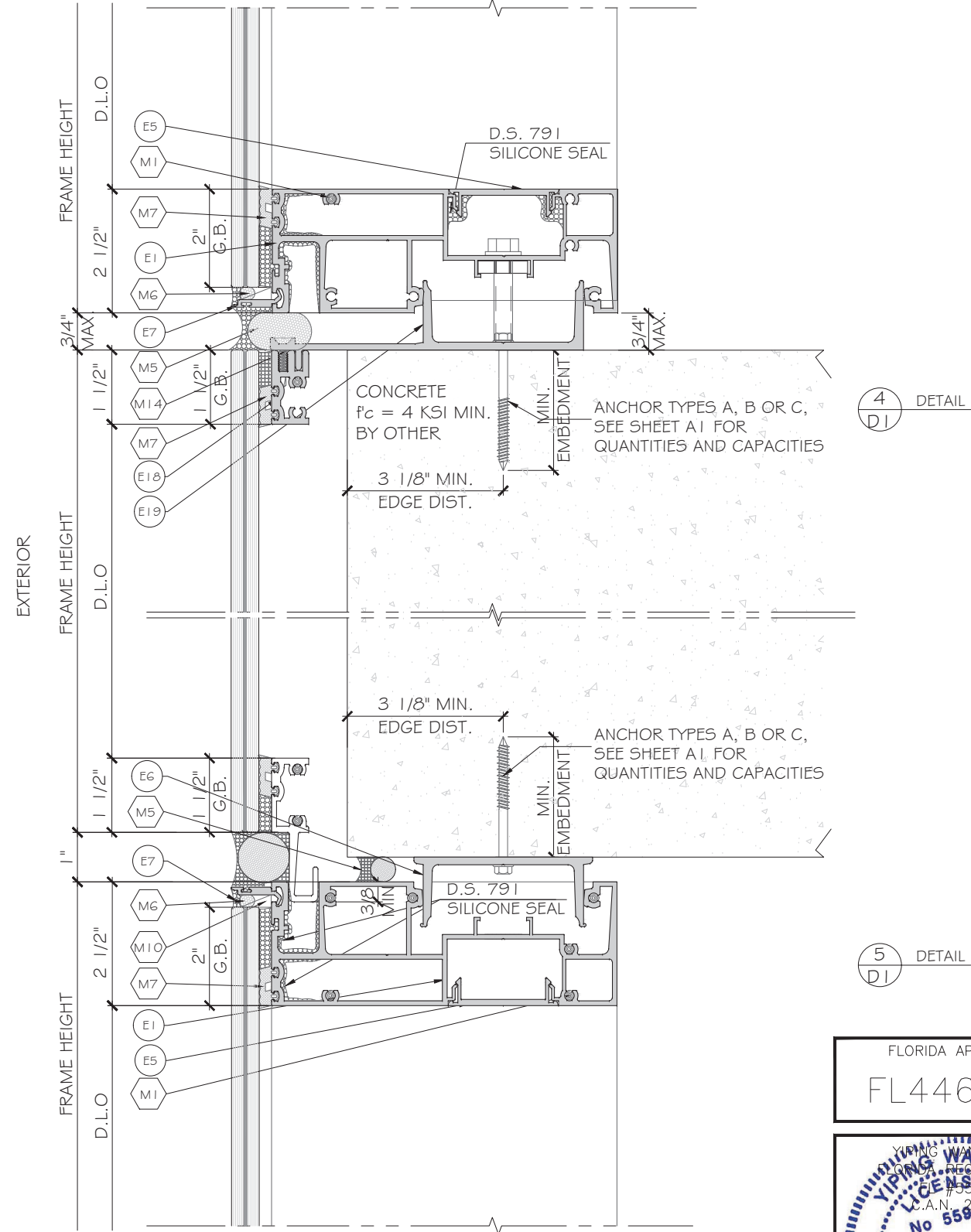
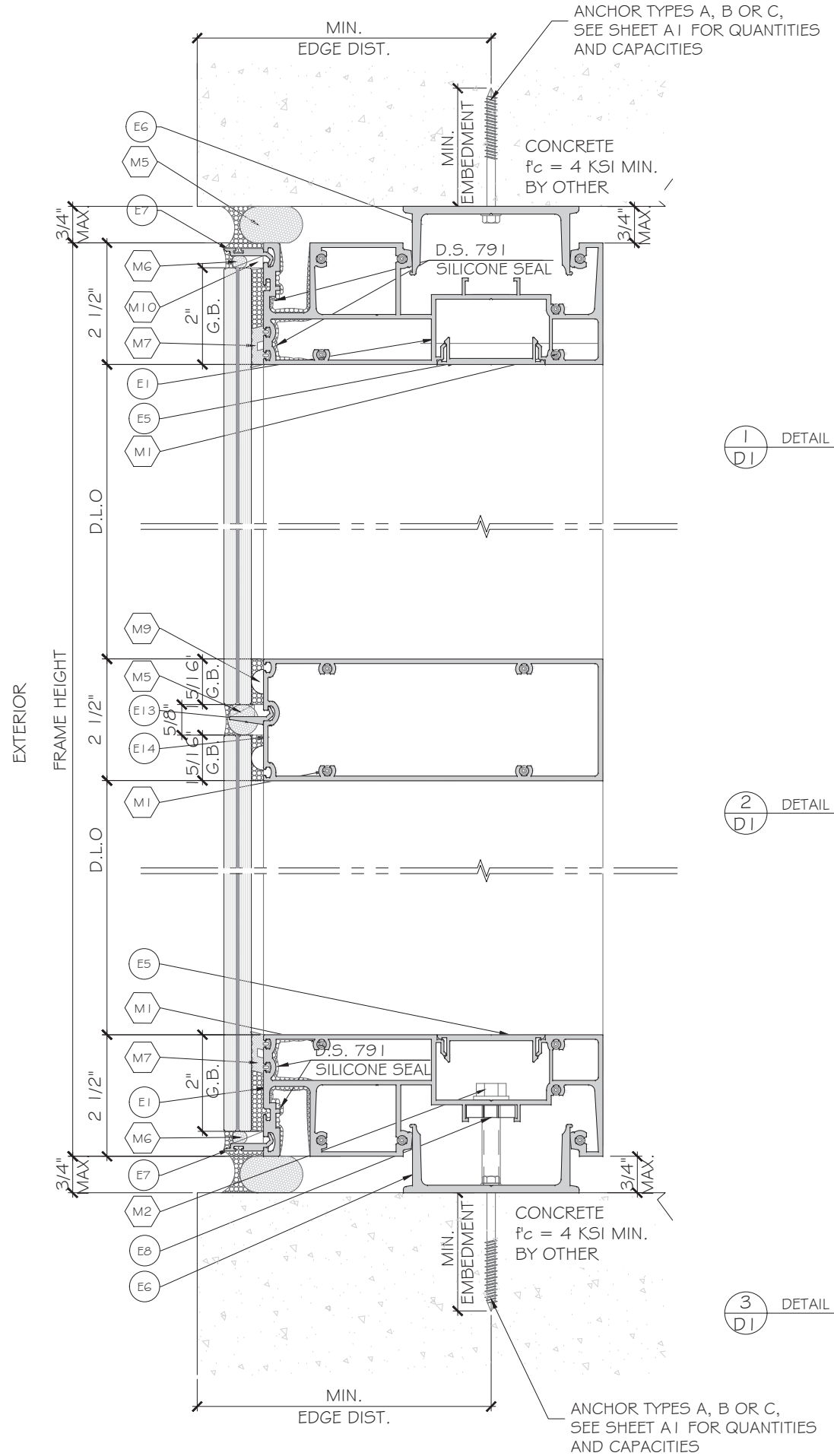
Rev. No.	Date	Drawn By	Description
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RO	12/19/2023	James	NEW APPLICATION

Drawn Date	Scale
08/28/2026	

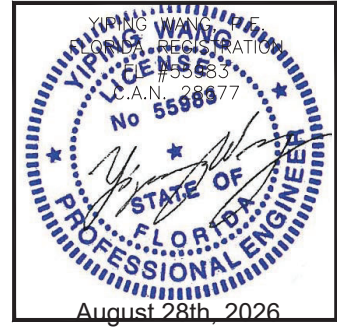
DRAWING NO.
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A1

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SERIES ES-WW860 ALUMINUM WINDOW WALL-L.M.I.

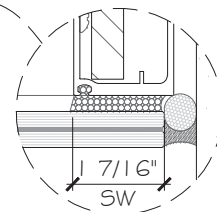
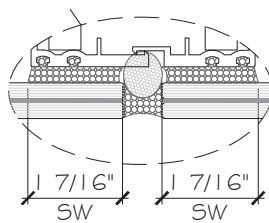
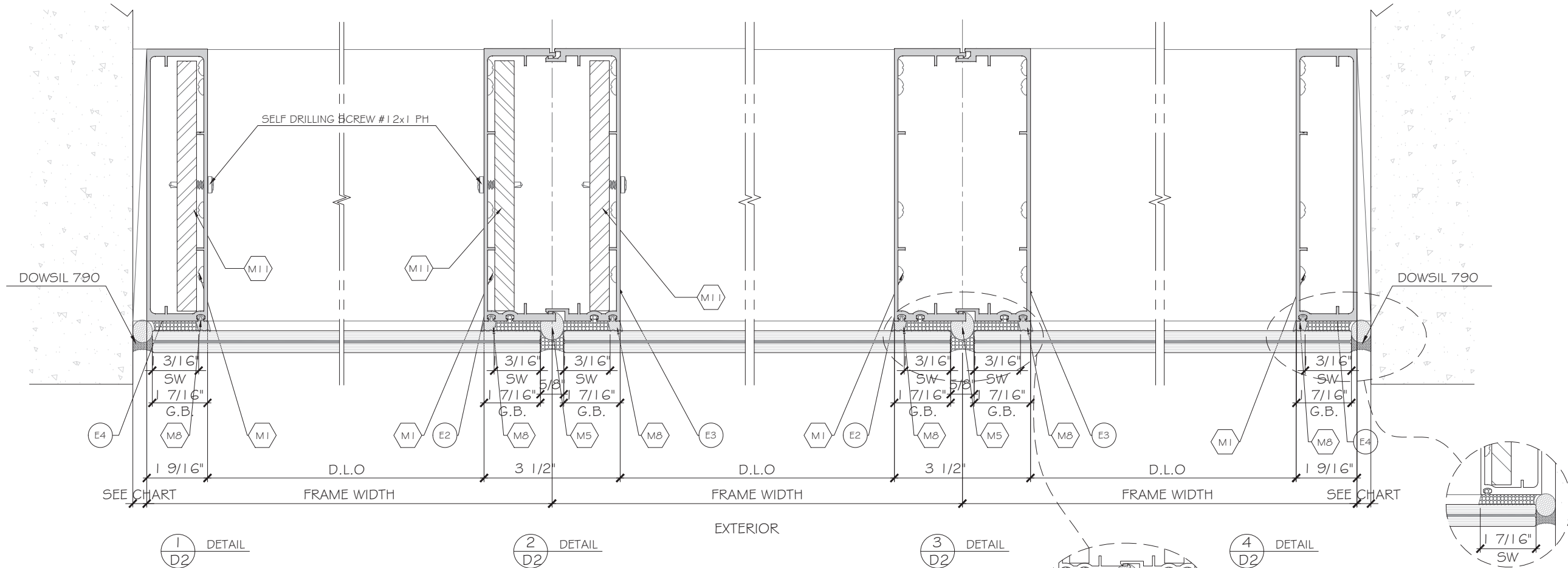
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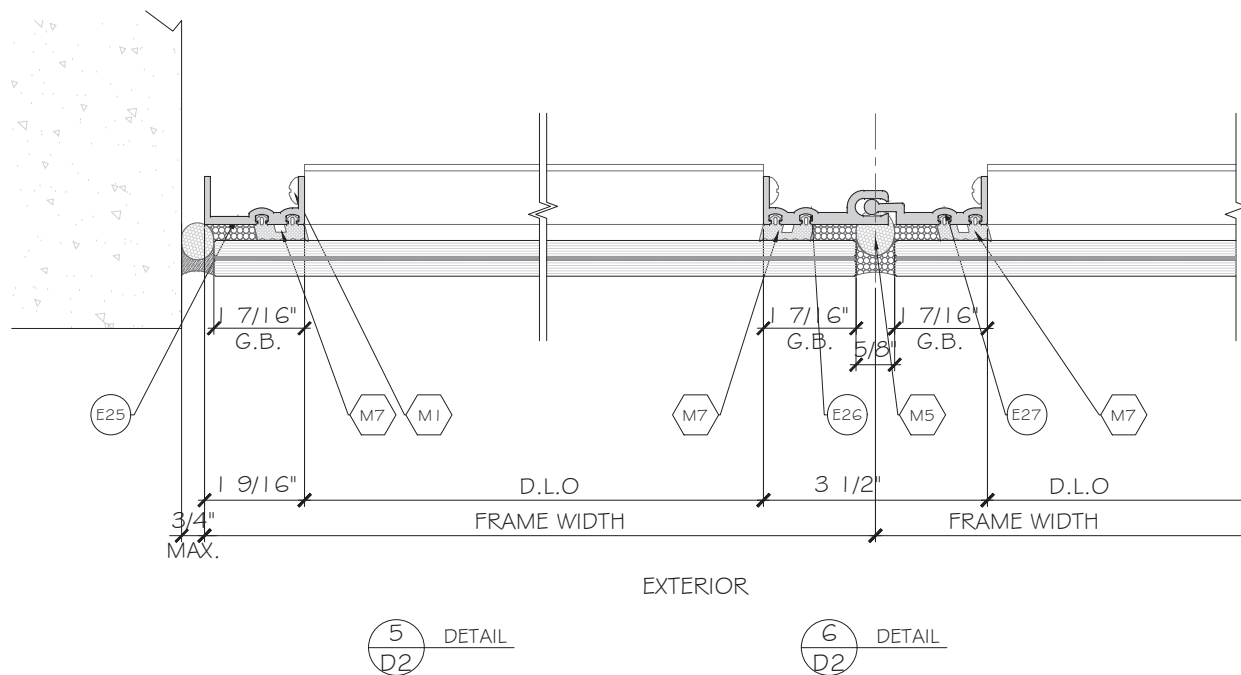
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R1	08.28.2026	James	FBC 2026
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Drawn Date 08.28.2026 Scale			
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FRAME HEIGHT FH(in)	MIN. GAP (in)	MAX. GAP (in)
108	3/8"	3/4"
158	1/2"	3/4"



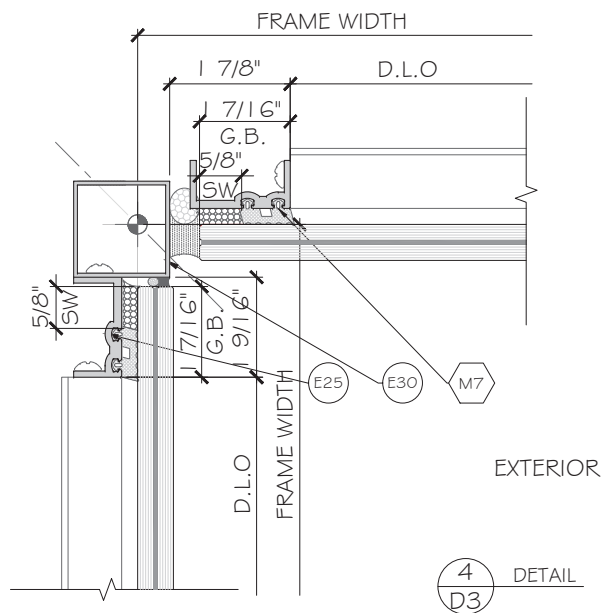
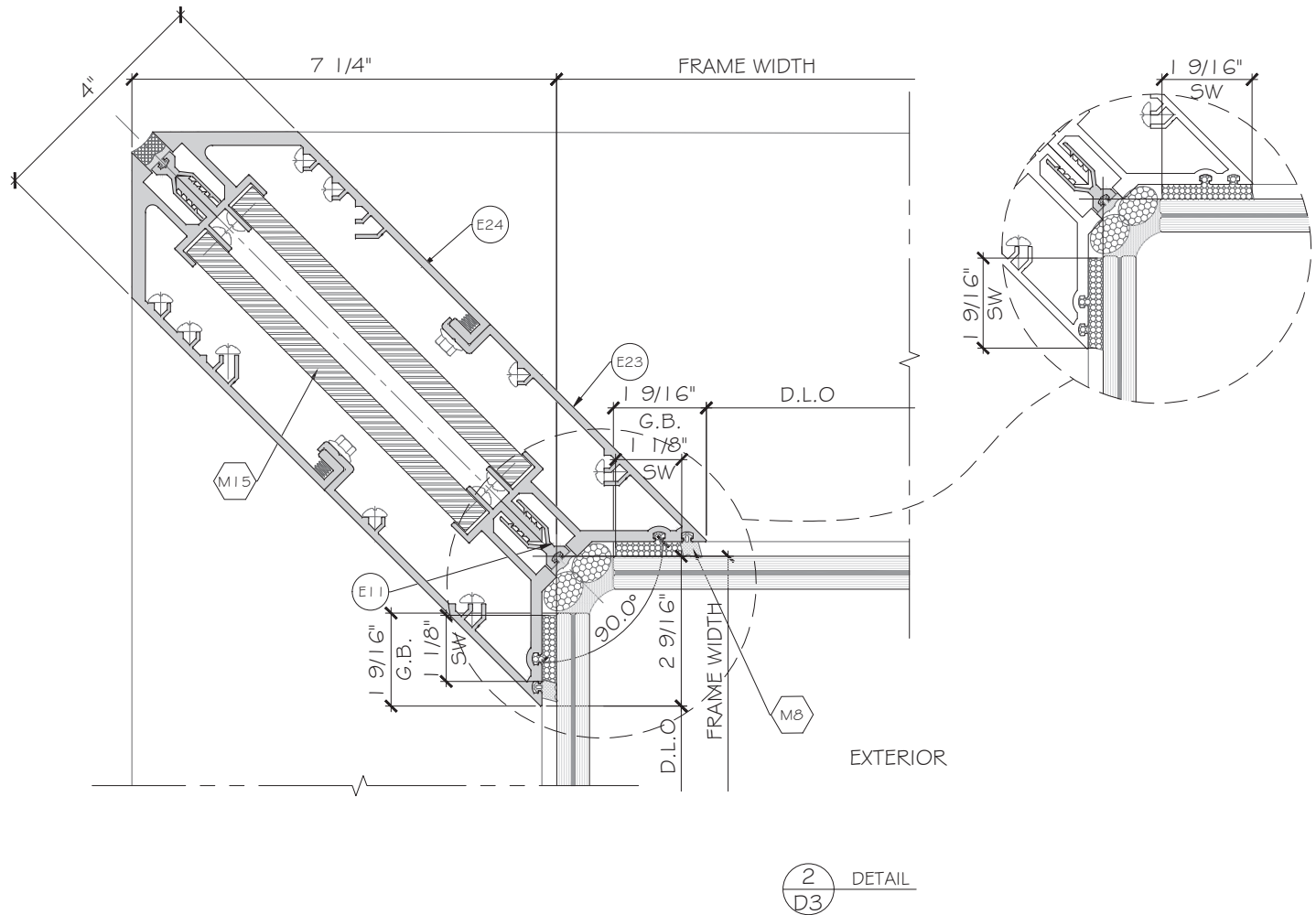
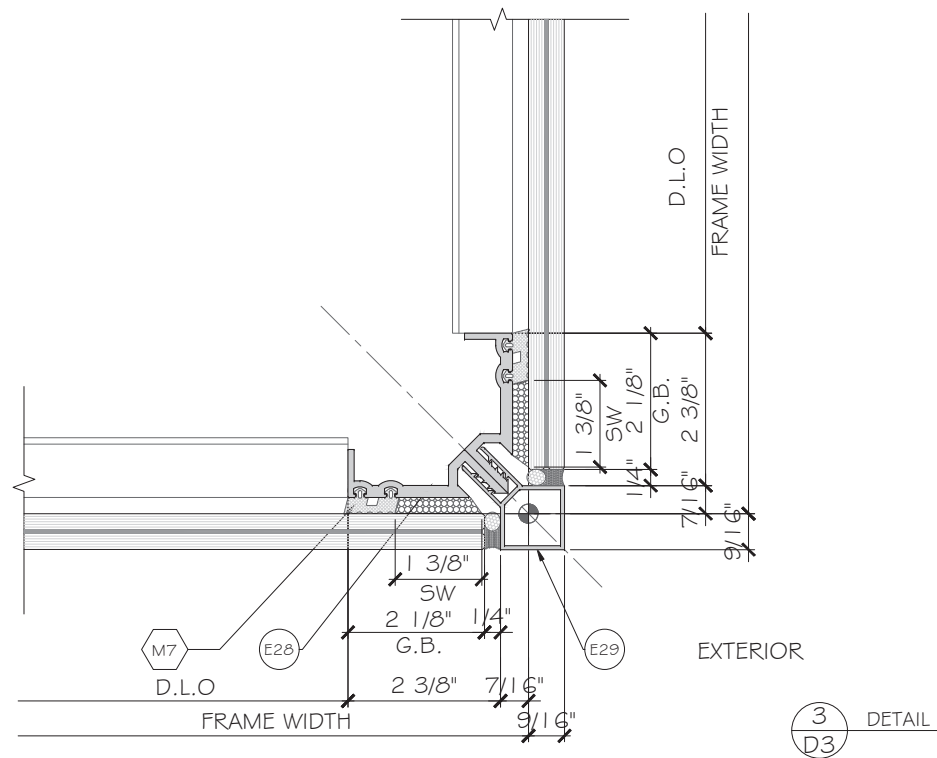
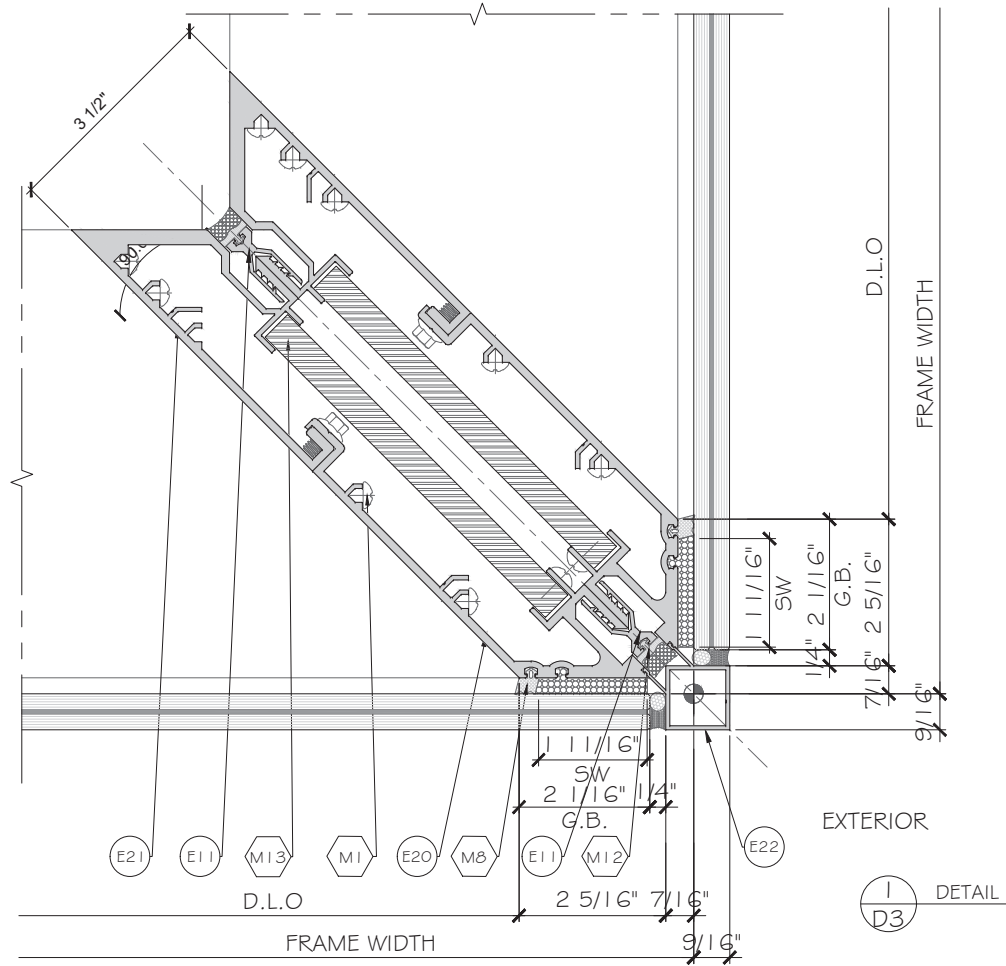
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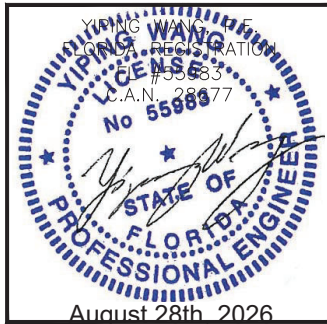
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R1	08/28/2026	James	FBC 2026
Drawn Date: 08/28/2026 Scale:			
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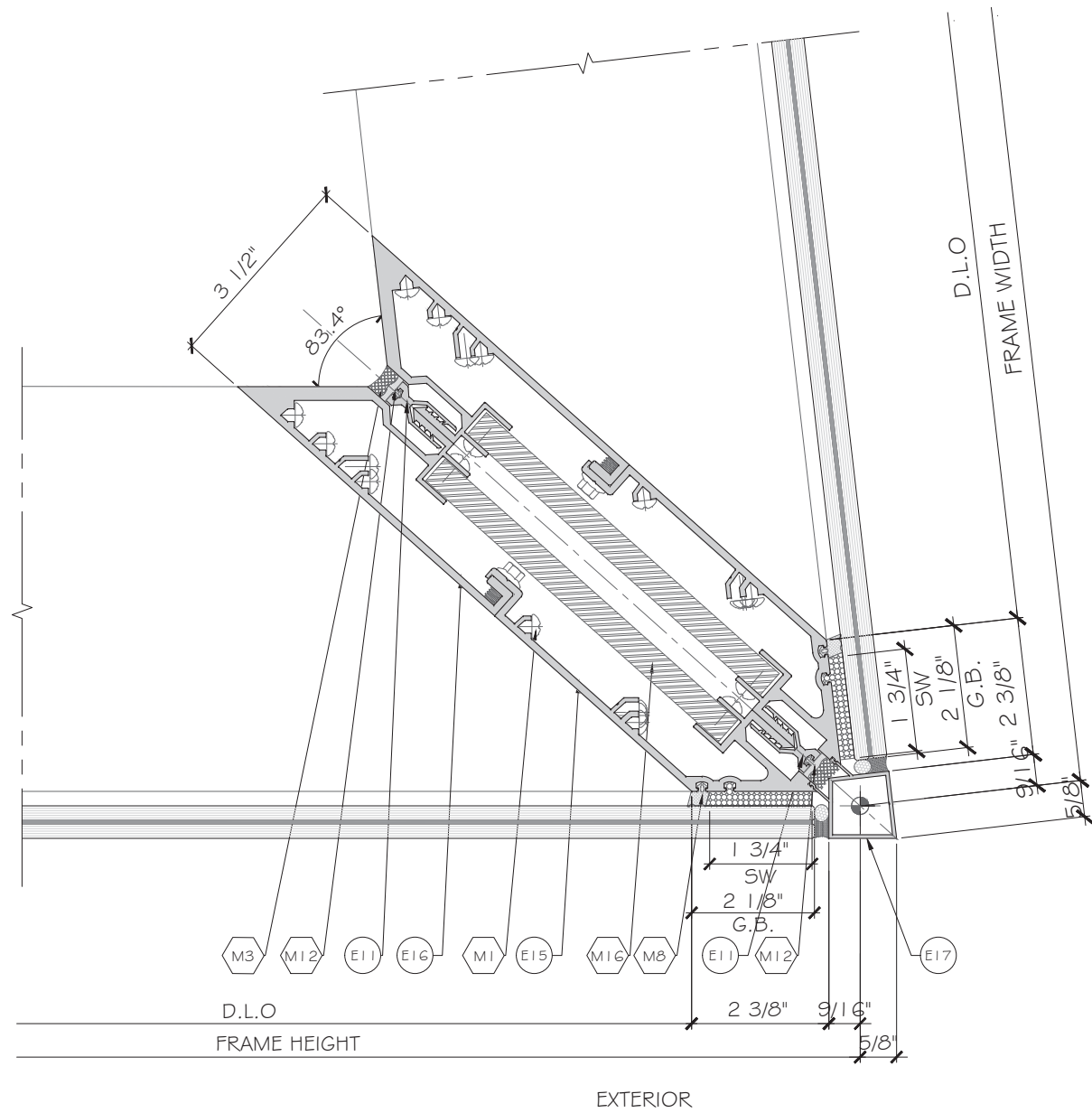


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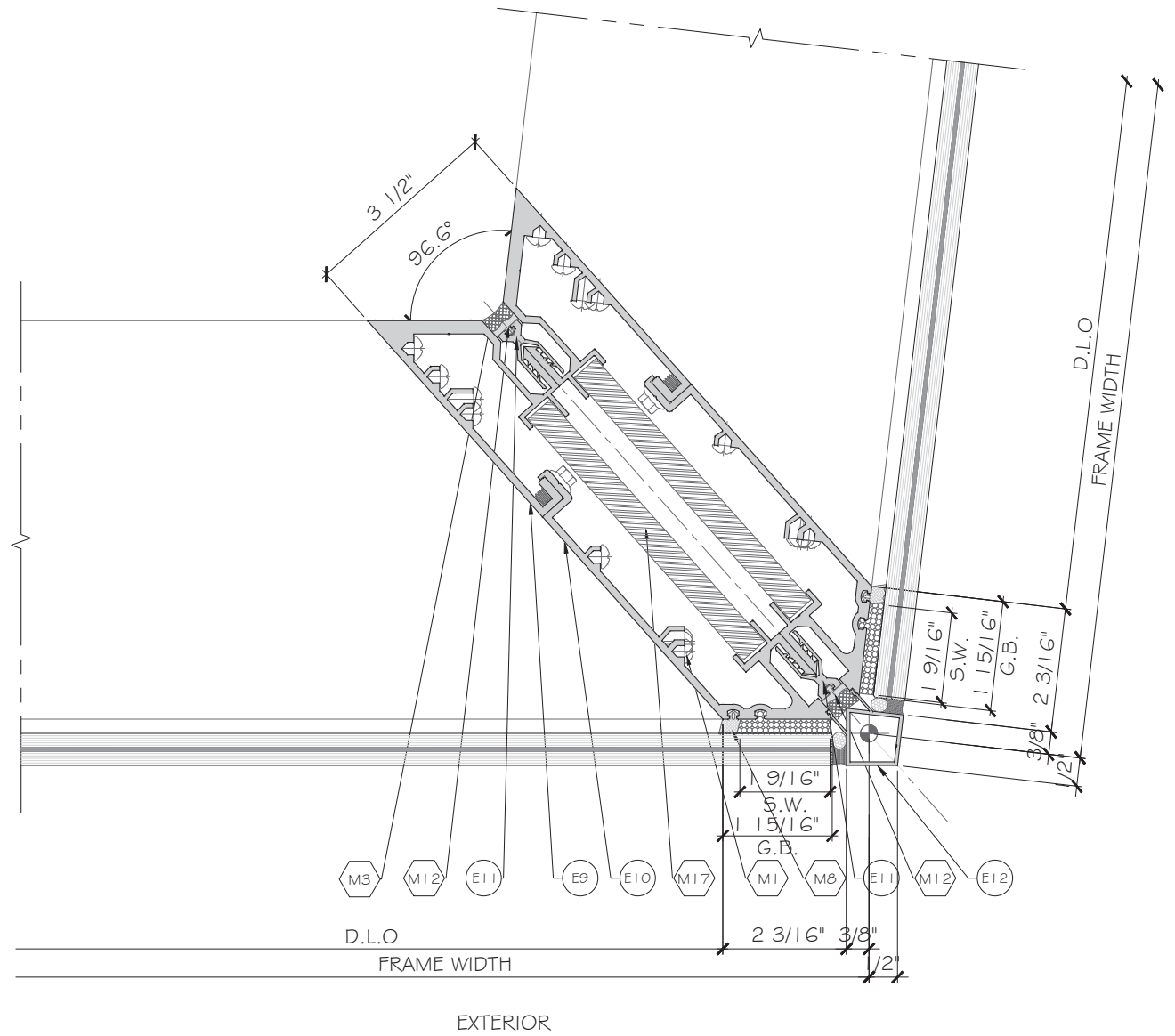
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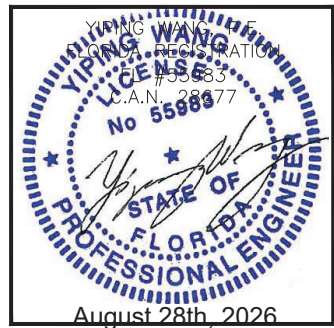


1
D4 DETAIL



2
D4 DETAIL

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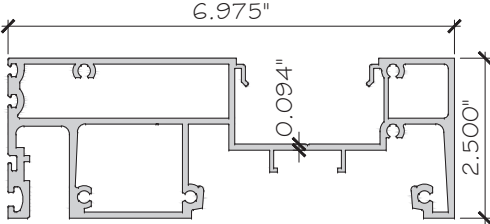


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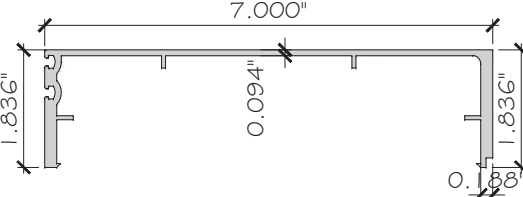
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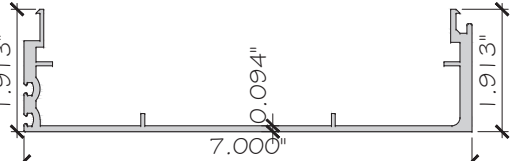
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Drawing Date: 08/28/2026 Scale:			
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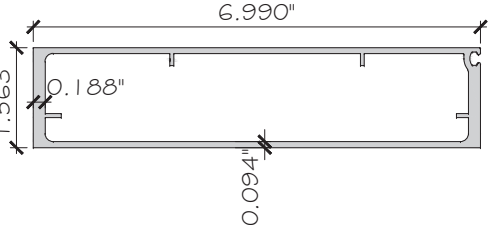
E1 FRAME HEAD AND SILL
E5-8860-007A 6063-T6



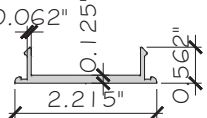
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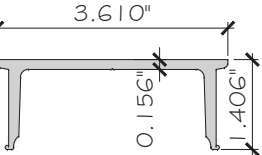
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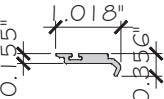
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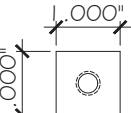
E5 SNAP COVER
E5-7003A 6063-T6



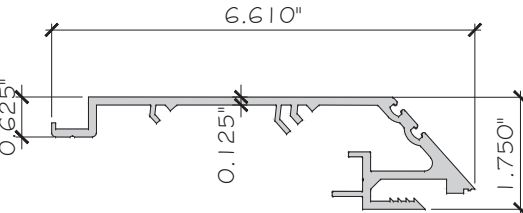
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E5-7004 6005-T5



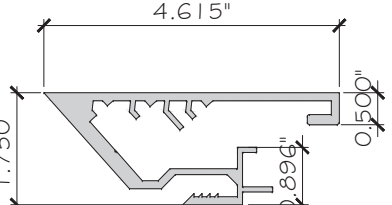
E7 SETTING CHAIR
E5-8860-014 6063-T6



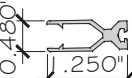
E8 SILL LEVELER
ALU-P-020 6063-T6



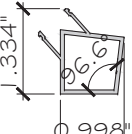
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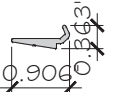
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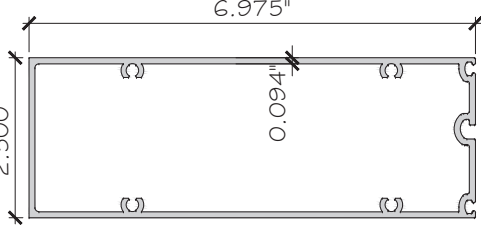
E11 CORNER CLIP
HP3060-059 6063-T6



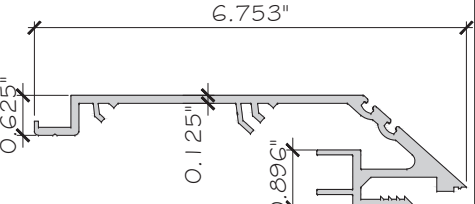
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E5-8860-416 6063-T6



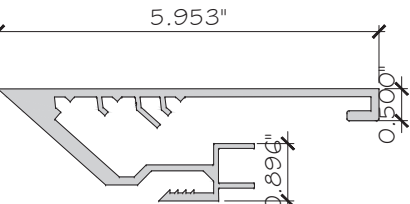
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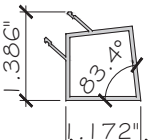
E14 HORIZONTAL MULLION
E5-WW8832-101 6005-T5



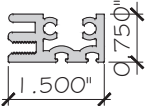
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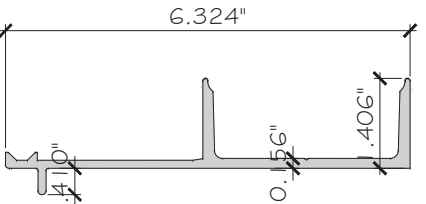
E16 CORNER OUT BACK 83.4° SSG
E5-8860-410 6005-T5



E17 GLASS SEAL CORNER 83.4° SSG
E5-8860-412 6063-T6



E18 HEAD SLAB COVER
E5-8860-005 6063-T6



E19 SLAB COVER ANCHOR
E5-8860-015 6063-T6



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M

C

Y

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Scale

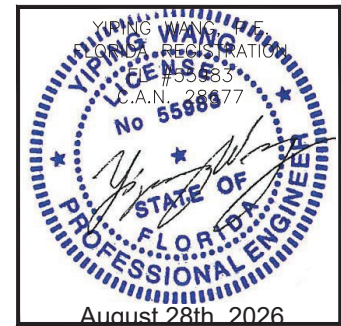
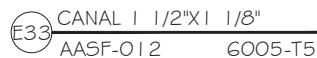
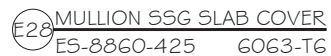
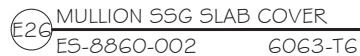
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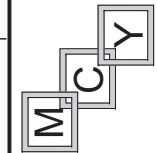
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