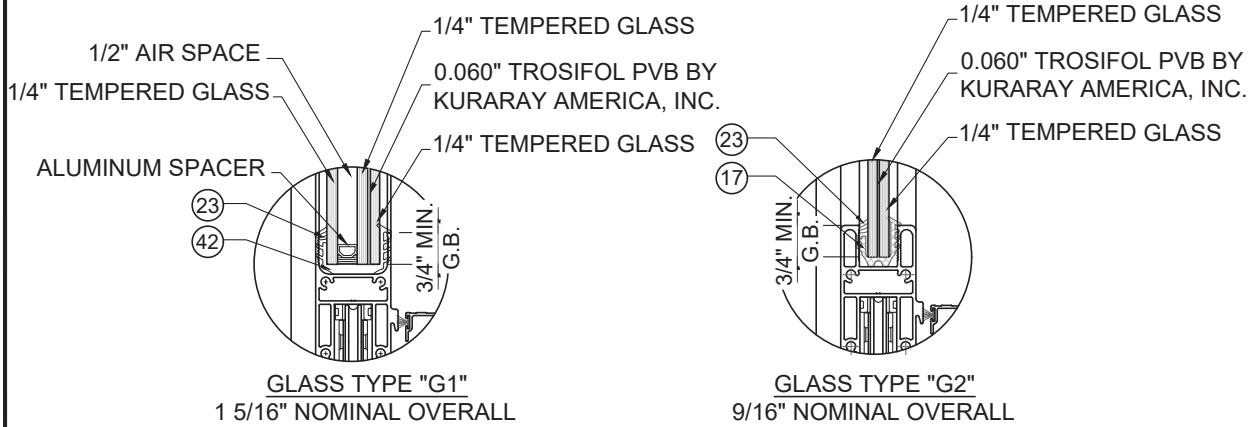


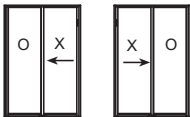


NOTE:
GLASS COMPLIES WITH ASTM E1300-09 (3 SEC. GUSTS).

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023), INCLUDING THE REQUIREMENTS FOR HIGH VELOCITY HURRICANE ZONES (HVHZ).
- THIS PRODUCT IS A LIFT & SLIDE ALUMINUM SLIDING GLASS DOOR, SMALL MISSILE IMPACT RESISTANT, THAT CAN BE USED AT ELEVATIONS ABOVE 30'-0" OF GRADE LEVEL WITHOUT HURRICANE PROTECTIVE SHUTTERS. SHUTTERS ARE REQUIRED WHEN PRODUCT USED FOR ELEVATIONS BELOW 30'-0" GRADE LEVEL.
- THIS APPROVAL APPLIES TO ONE SLIDING GLASS DOOR SYSTEM AND IS APPROVED WITH THE FOLLOWING CONFIGURATIONS:

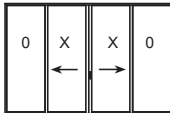
2 PANEL DOOR, XO OR OX



3 PANELS DOOR, OXO RIGHT OR OXO LEFT



4 PANEL DOOR, OXXO



- DESIGN LOAD RATING FOR THIS PRODUCT IS TO BE AS SHOWN ON SHEET E1 & E3.
- THE DESIGN LOADS OF THE LOCATION WHERE THE PRODUCT WILL BE USED MUST BE CERTIFIED BY A PROFESSIONAL ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA FOR EACH SPECIFIC PROJECT.

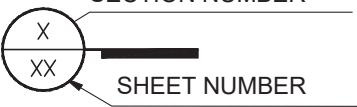
- ANCHORING OR LOADING CONDITIONS NOT SHOWN ON THE DETAILS HEREIN INCLUDED ARE NOT PART OF THIS APPROVAL.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY:
 - THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE INSTALLED TO ENSURE PROPER ANCHORAGE
 - THE PROJECT DESIGN CRITERIA AND APPLICABLE CODES AND ORDINANCES
 - THE ADEQUACY AND APPLICABILITY OF THIS APPROVAL.
- ANCHORS SHALL BE AS LISTED IN THIS DOCUMENT AND SPACED AS INDICATED ON SHEETS E1, E2, D1 - D4. LISTED EMBEDMENT SHALL BE BEYOND EXTERIOR OR INTERIOR FINISH OF SUBSTRATES.
- ALUMINUM: ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY MINIMUM EXCEPT WHERE OTHERWISE INDICATED. PLEASE REFER TO SHEET BOM FOR BILL OF MATERIALS.
- 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.

APPROVAL USE INSTRUCTIONS

- DETERMINE APPLICABLE PROJECT WIND LOADS AS PER FBC APPROVED METHODS.
- THE S.G.D. IN PROJECT MUST NOT EXCEED THE APPROVED SIZE ON SHEET E-1 & E3.
- SEE APPROVED CONFIGURATION ON SHEET E2 & E4.
- FOR GLASS TYPE SEE SHEET 1.
- SEE SHEET D1 & D3 FOR HEAD & SILL DETAIL WITH ANCHOR TYPE TO BE USED AND ALLOWED CAPACITIES.

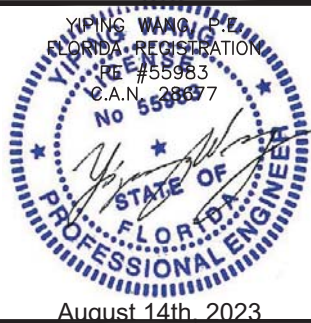
ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING	CL - CENTER LINE
F.H. - FRAME HEIGHT	S.S. - STAINLESS STEEL
F.W. - FRAME WIDTH	H.S. - HEAT STRENGTHENED
LG. - LONG	SSG - STRUCTURAL SILICONE
STL. - STEEL	GLAZED
ALUM. - ALUMINUM	TEMP. - TEMPERED
MULL. - MULLION	O.C. - ON CENTER
HORIZ. - HORIZONTAL	
W/ - WITH	
W/O - WITHOUT	
VERT. - VERTICAL	



LIMITATIONS OF USE

- 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.
- 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.
- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- 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.
- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



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MCY ENGINEERING, INC.
GLAZING CONSULTANTS

MCY

12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com MCY@mcyengineering.com

EUSA STL-40 LIFT & SLIDE GLASS DOOR SERIES- SMI

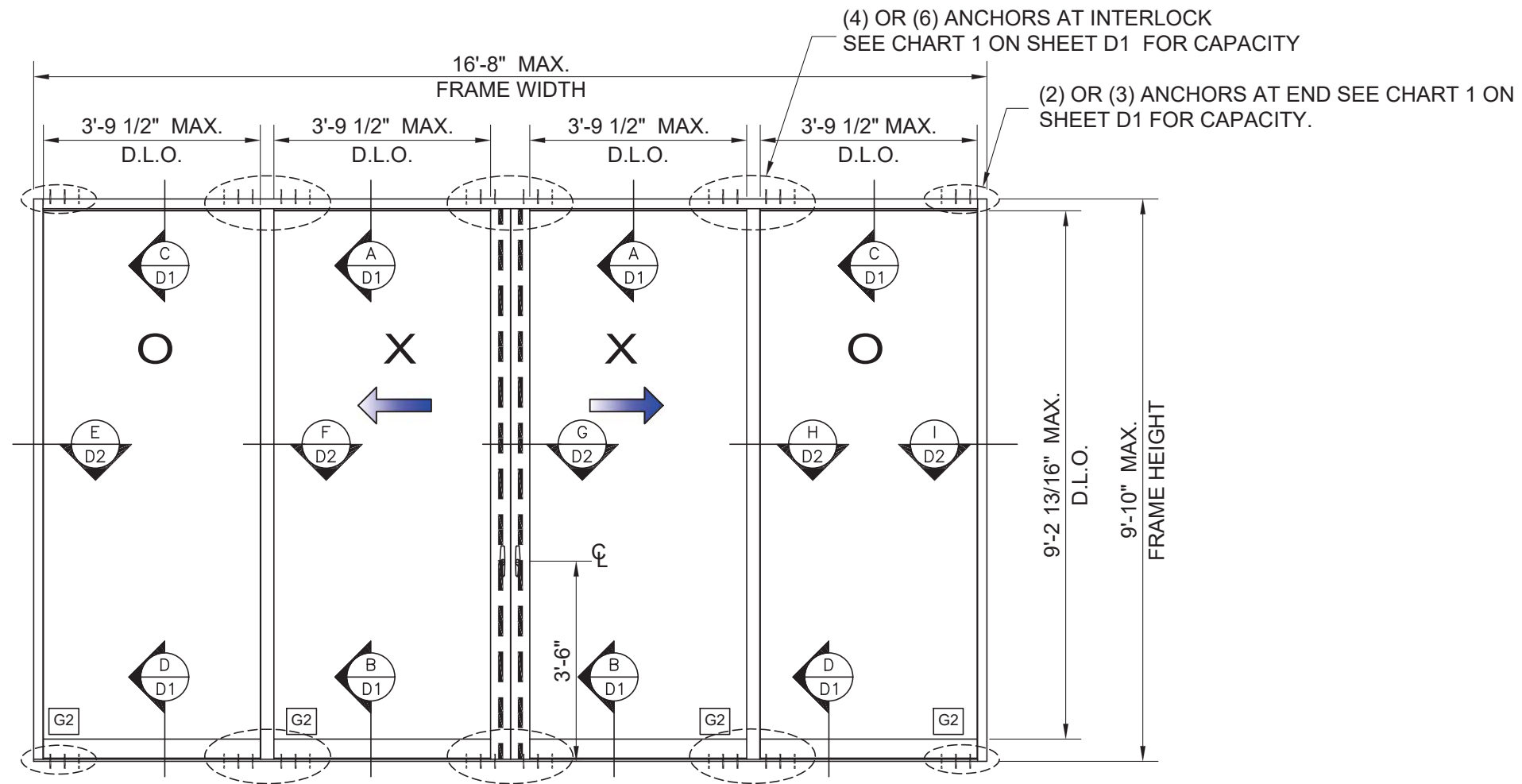
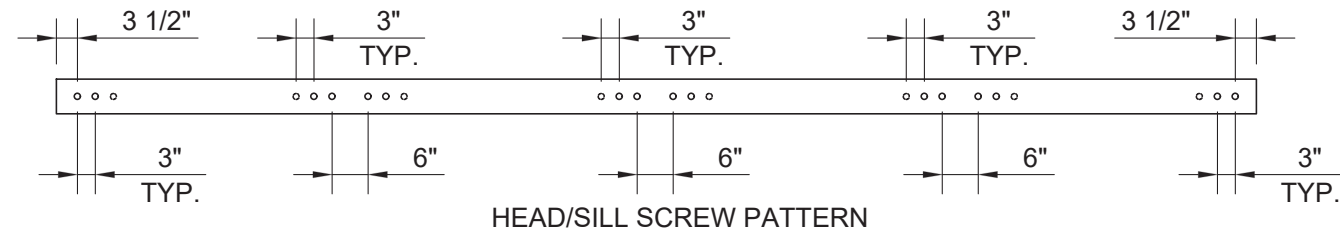
GLOBAL PERFORMANCE WINDOWS, INC.
DBA EPYSLON USA

2115 S.W. 2ND STREET POMPANO BEACH FL 33069
TEL.: (954) 942-3322 FAX: (954) 942-3215

FL#24547.2

DATE	08.08.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY 17-089

COVER
DRAWING NO.
AD17-31
1 OF 11



TYPICAL EXTERIOR ELEVATION

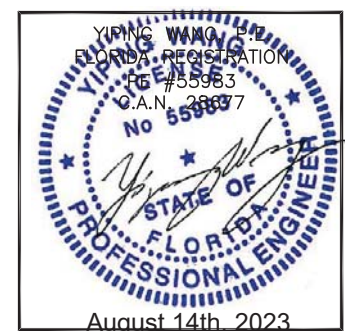
DESIGN LOADS

(FOR SIZES SHOWN ABOVE OR SMALLER)
AS PERMITTED BY FBC

+100.0 PSF
- 100.0 PSF

NOMINAL PANEL SIZE
PANEL WIDTH = FRAME WIDTH / NUMBER OF PANELS
PANEL HEIGHT = FRAME HEIGHT (FH) - 1.582"

DLO SIZE:
DLO WIDTH = NOM. PANEL WIDTH - 4.5"
DLO HEIGHT = FH - 7.1875"



August 14th, 2023

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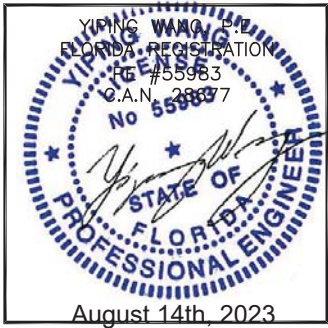
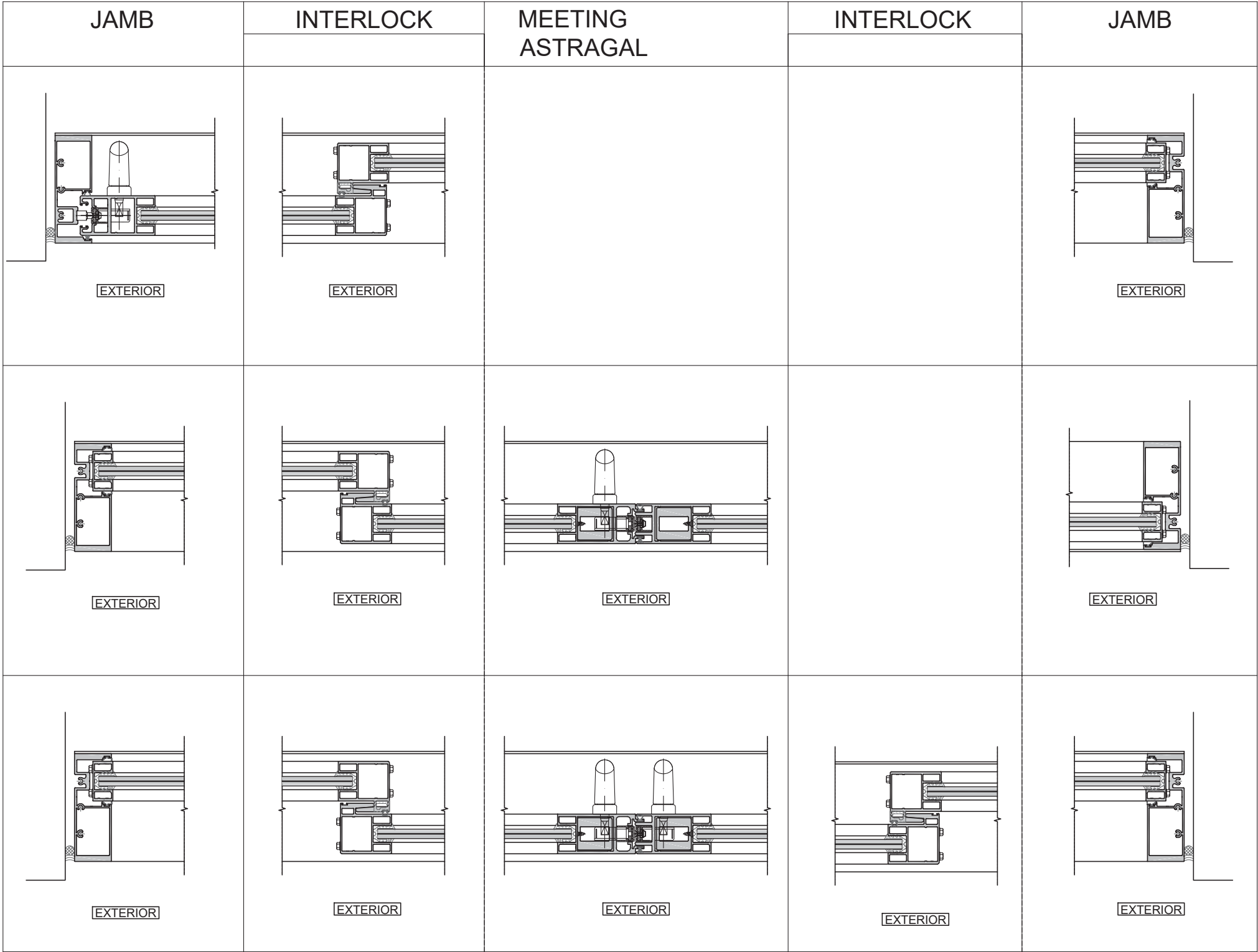
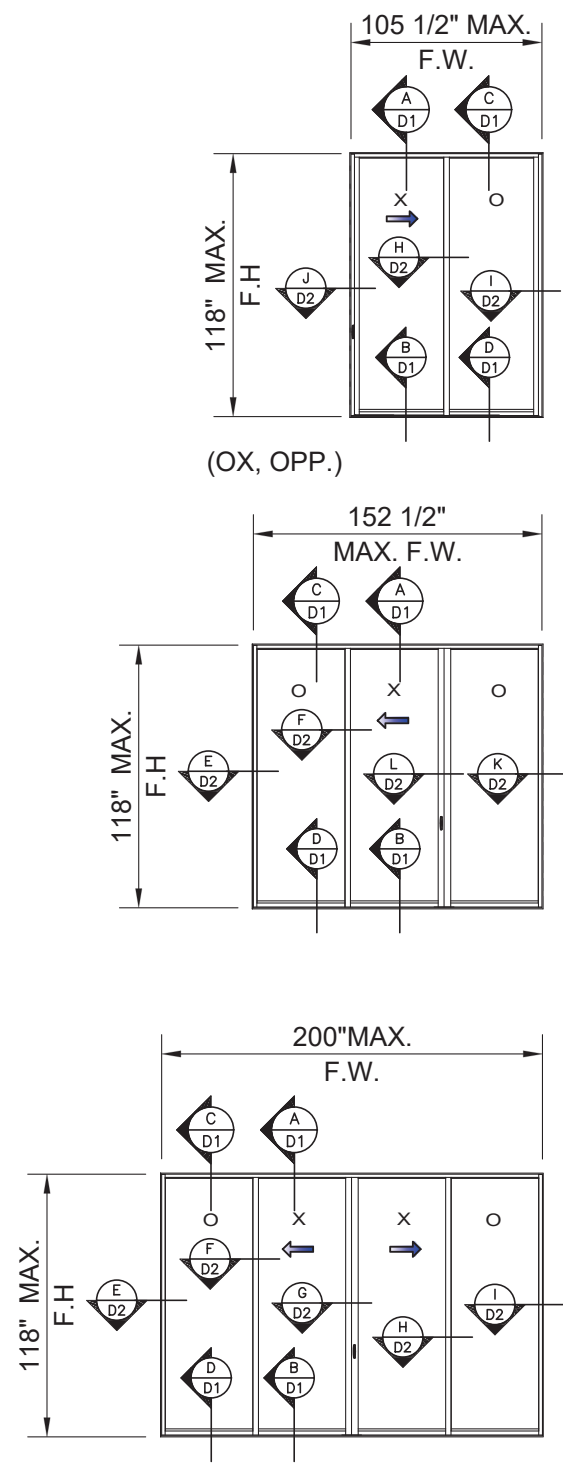
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E1

DRAWING NO.
AD17-31

2 OF 11



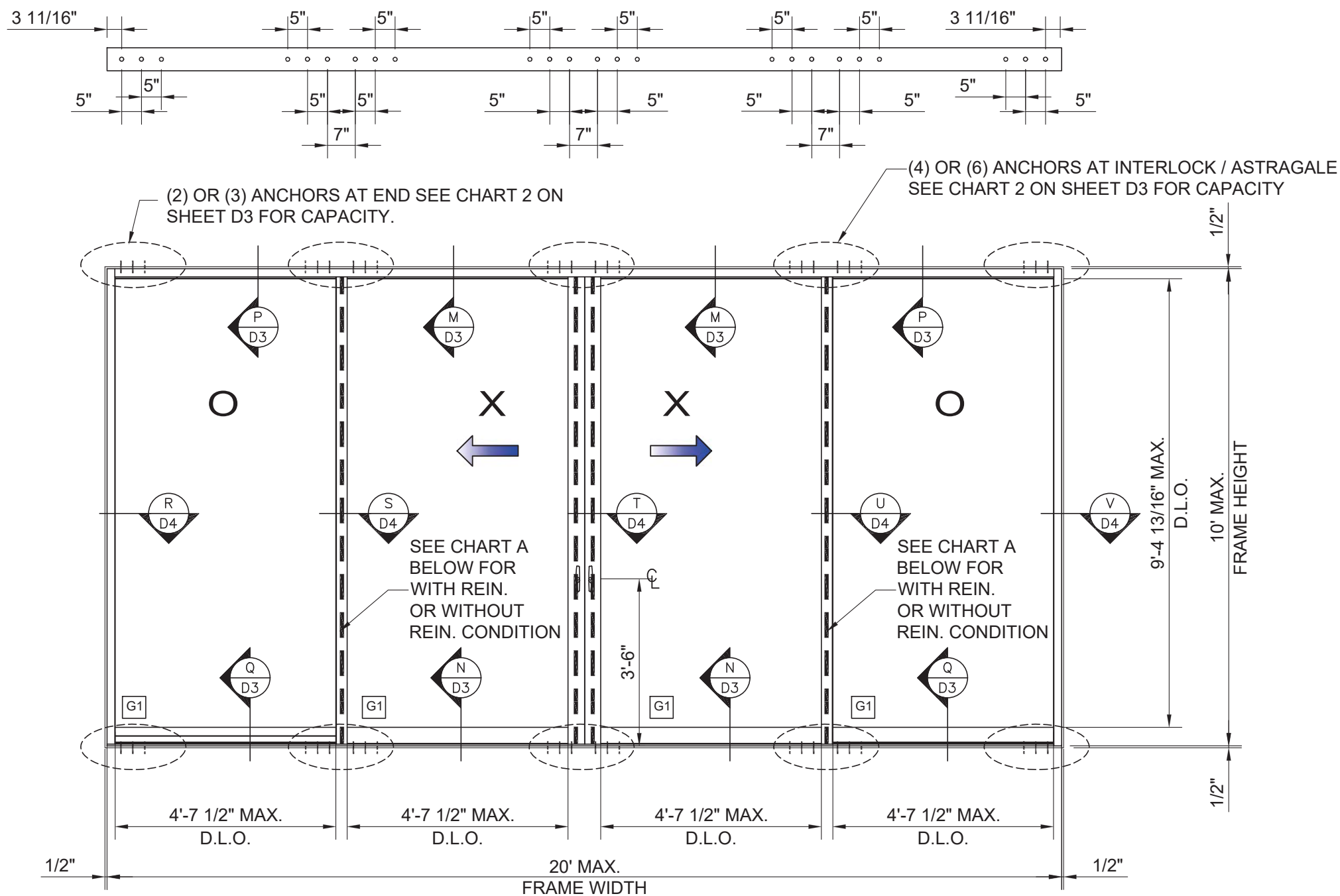
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E2	
DRAWING NO. AD17-31	
3 OF 11	

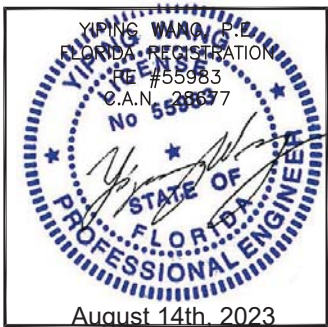


TYPICAL EXTERIOR ELEVATION

NOMINAL PANEL SIZE
 PANEL WIDTH = FRAME WIDTH / NUMBER OF PANELS
 PANEL HEIGHT = FRAME HEIGHT (FH) - 1.582"
 DLO SIZE:
 DLO WIDTH = NOM. PANEL WIDTH - 4.5"
 DLO HEIGHT = FH - 7.1875"

DESIGN LOADS (FOR SIZES SHOWN ABOVE OR SMALLER) AS PERMITTED BY FBC	
+100.0 PSF	
- 100.0 PSF	

CHART A INTERLOCK DESIGN LOAD - PSF	
WITH REIN.	WITHOUT REIN.
EXT(+), INT(-)	EXT(+), INT(-)
100	80

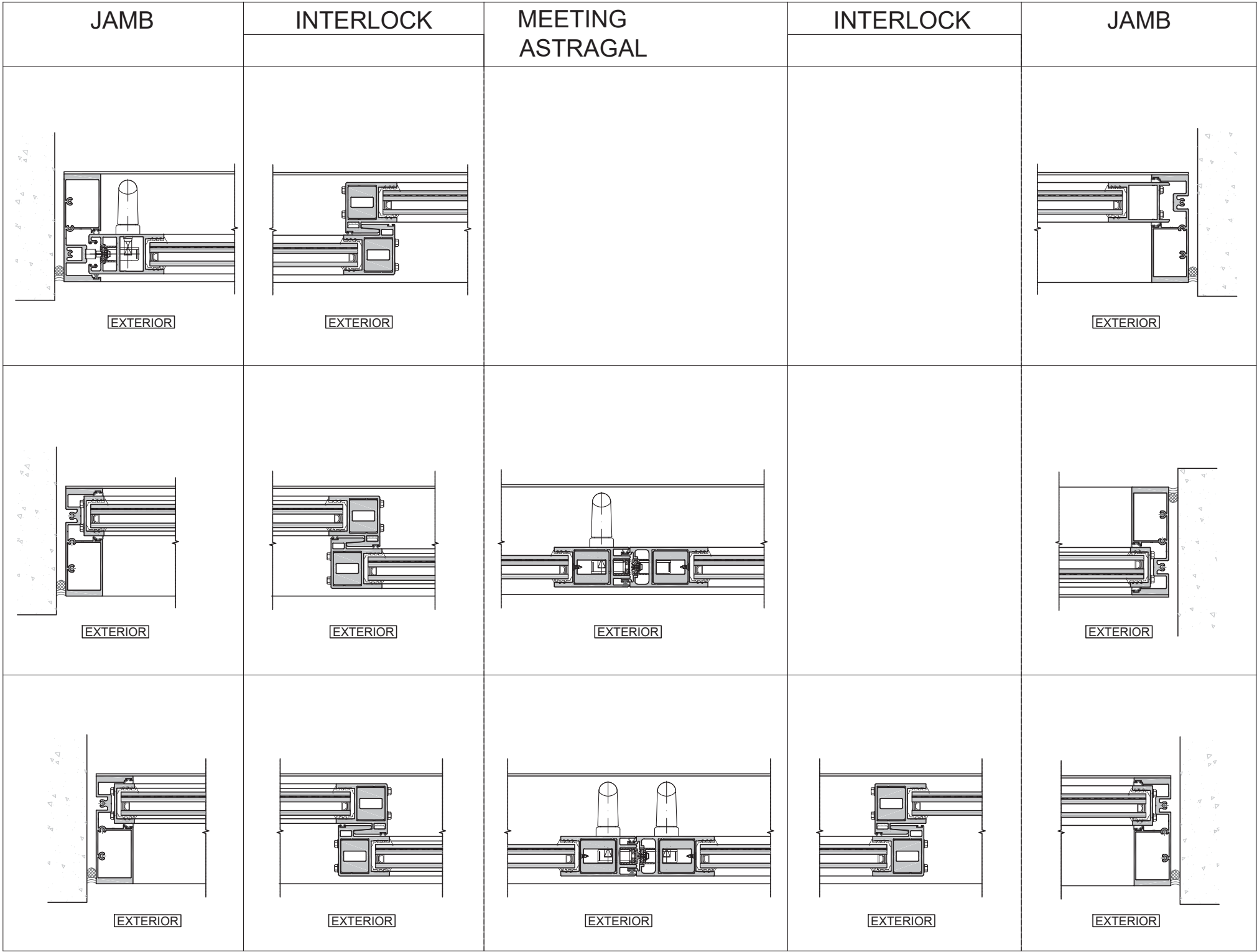
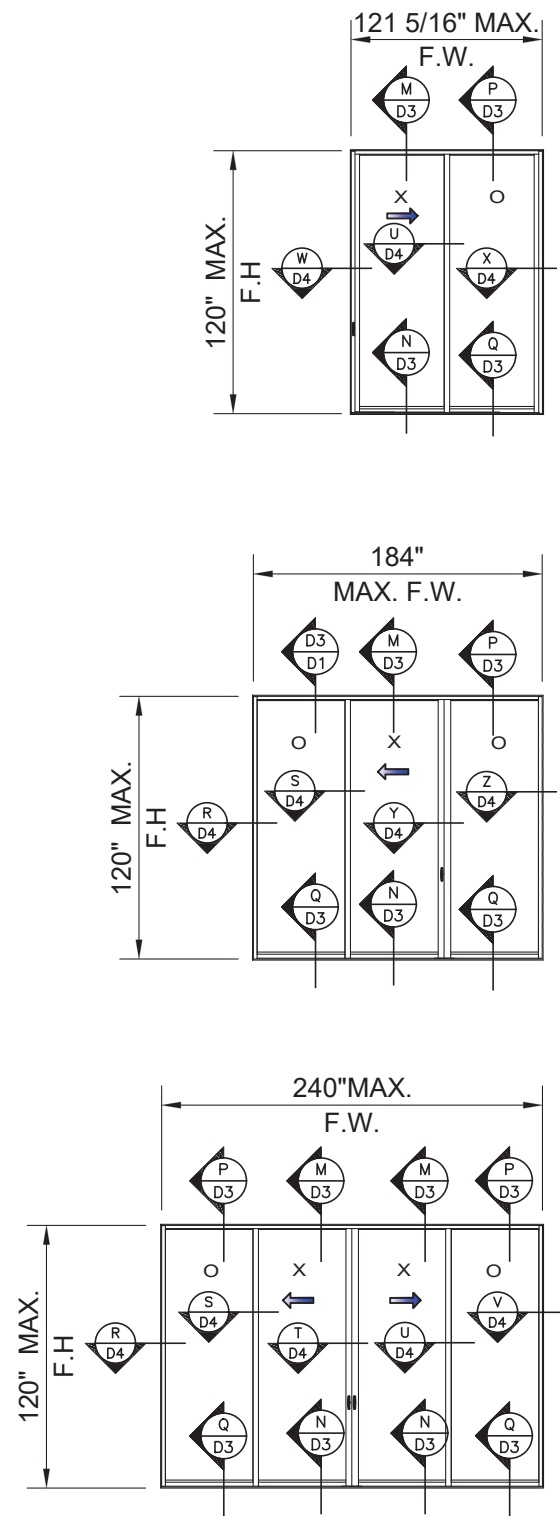


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E3	
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E4	
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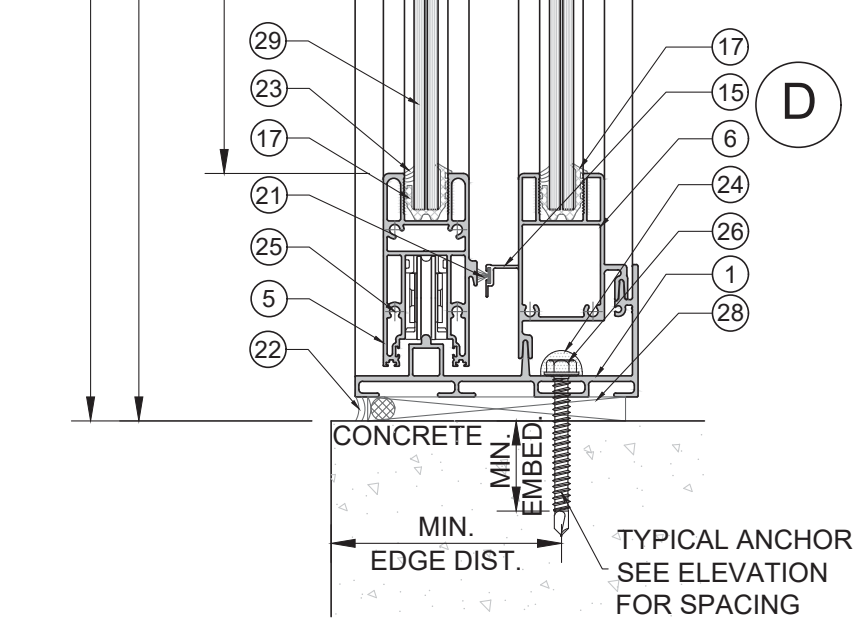
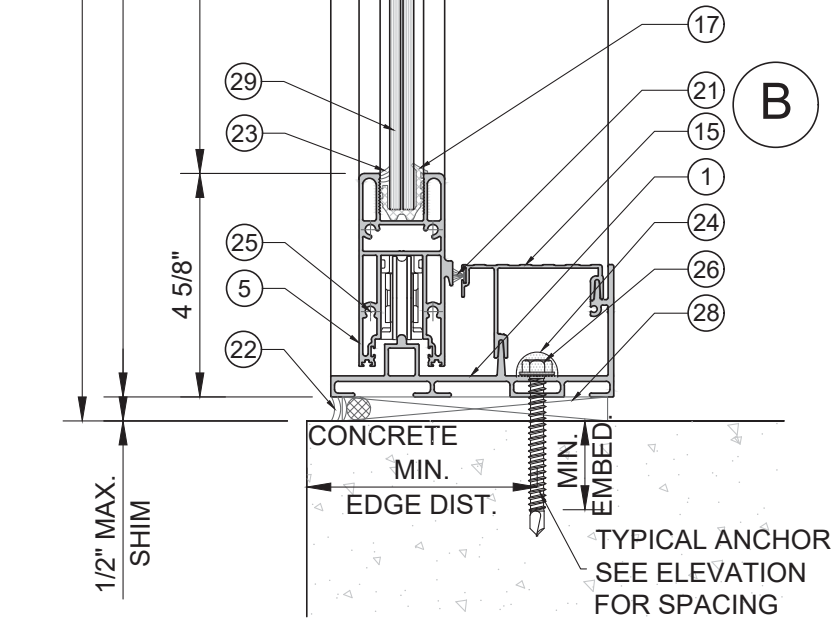
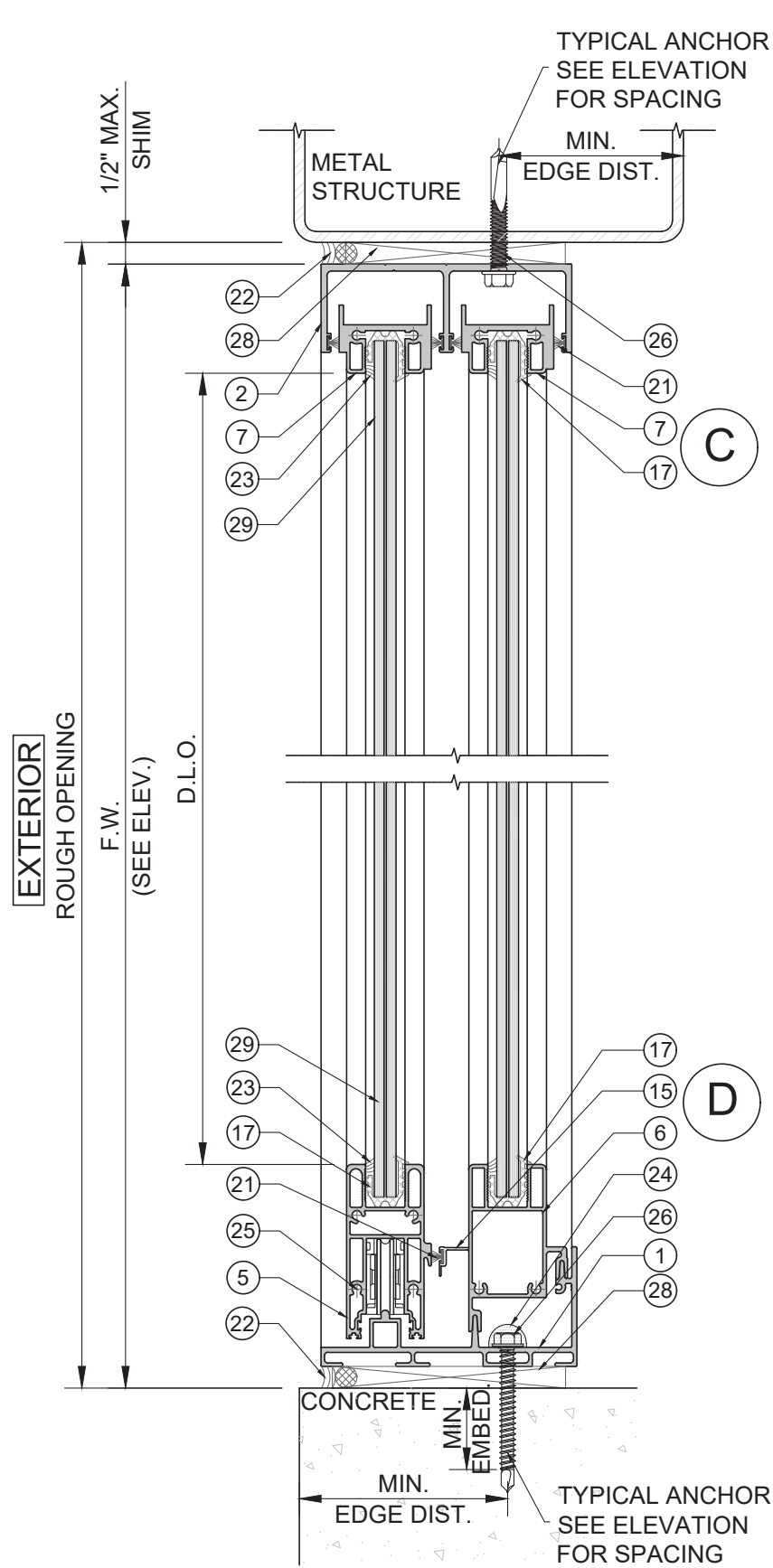
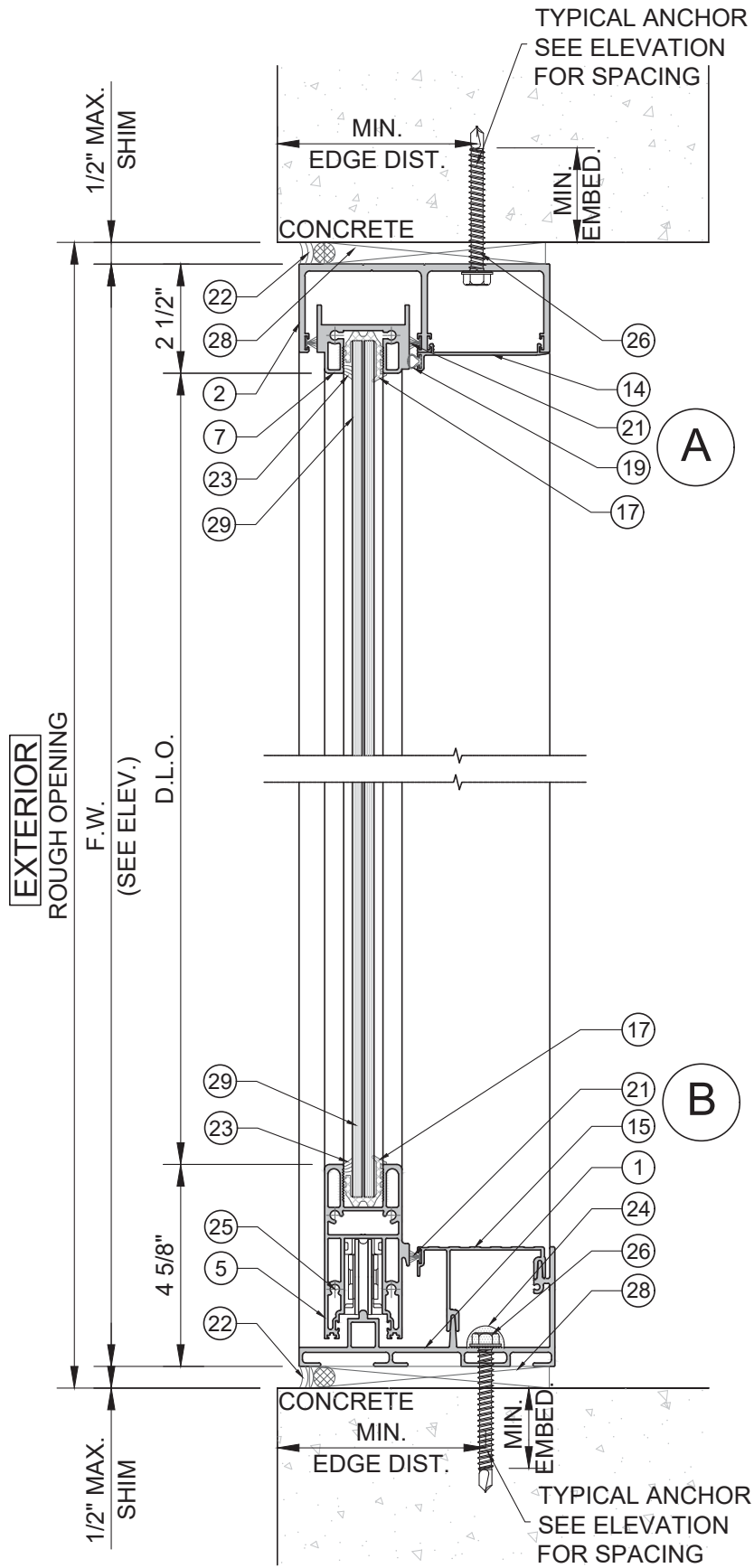


CHART 1: ANCHOR CAPACITIES

NOMINAL DIMENSION		CAPACITIES DUE TO ANCHORS				
PANEL WIDTH (in)	PANEL HEIGHT (in)	A4 PSF	B4 PSF	C4 PSF	D4 PSF	A6/B6 PSF
<=42	112	100	91	100	100	100
48	112	100	79	100	100	100
50	112	97	76	100	100	100
<=42	118	100	86	100	100	100
48	118	96	75	100	100	100
50	118	92	72	97	100	100

PANEL WIDTH = FRAME WIDTH/NUMBER OF PANELS

A4 - (4) ANCHOR TYPE A @ INTERLOCK/ASTRAGAL (2) AT EACH END
A6 - (6) ANCHOR TYPE A @ INTERLOCK/ASTRAGAL (3) AT EACH END
B4 - (4) ANCHOR TYPE B @ INTERLOCK/ASTRAGAL (2) AT EACH END
B6 - (6) ANCHOR TYPE B @ INTERLOCK/ASTRAGAL (3) AT EACH END
C4 - (4) ANCHOR TYPE C @ INTERLOCK/ASTRAGAL (2) AT EACH END
D4 - (4) ANCHOR TYPE D @ INTERLOCK/ASTRAGAL (2) AT EACH END

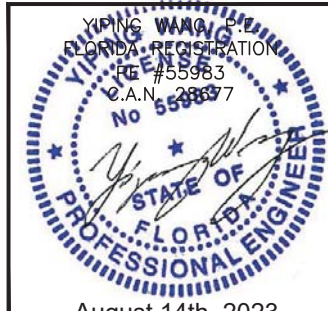
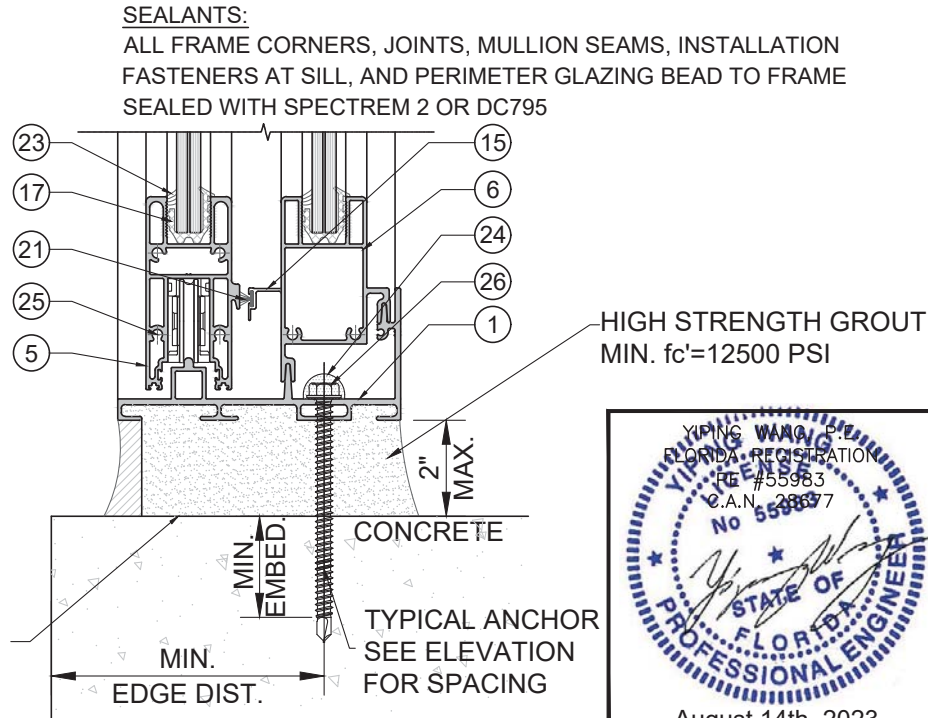
TYPICAL ANCHORS (FOR HEAD AND SILL):
(SEE ELEVATIONS FOR SPACING)

TYPE A: 5/16" DIA. DEWALT ULTRACON
(Fu = 177 KSI, Fy = 155 KSI)
2" MIN. EMBED DIRECTLY INTO CONCRETE f_c=3515 PSI MIN.
2 1/2" MIN. EDGE DISTANCE

TYPE B: 5/16" TEKS (SELF DRILLING SCREW) INTO 1/8" THK. METAL (6063-T5 MIN)
(Fu = 120 KSI, Fy = 92 KSI)
3/4" MIN. EDGE DISTANCE

TYPE C: 3/8" DIA. KWIK HUS EZ (Fu=125 KSI, Fy= 60 KSI)
WITH 1/2" MAX. SHIM @3" O.C.
2 1/2" MIN. EMBED INTO f_c=3000 PSI MIN.
2 1/2" MIN. EDGE DISTANCE

TYPE D: 3/8" DIA. TAP FLEX INTO 1/4" MIN. THK. METAL STRUCTURE (6063-T5,MIN)
(Fu= 120 KSI, Fy= 92 KSI)
WITH 1/2" MAX. SHIM @3" O.C.
3/4" MIN. EDGE DISTANCE



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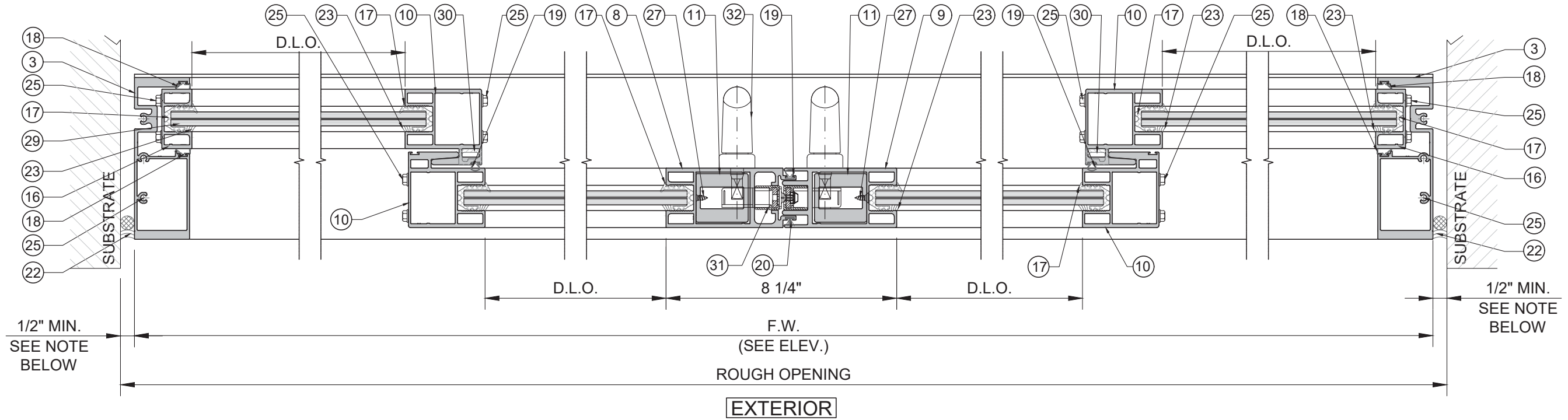
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F/L#24547.2
DATE 08.08.2023
SCALE AS NOTED
DRAWN James
PROJECT MCY 17-089
D1
DRAWING NO. AD17-31
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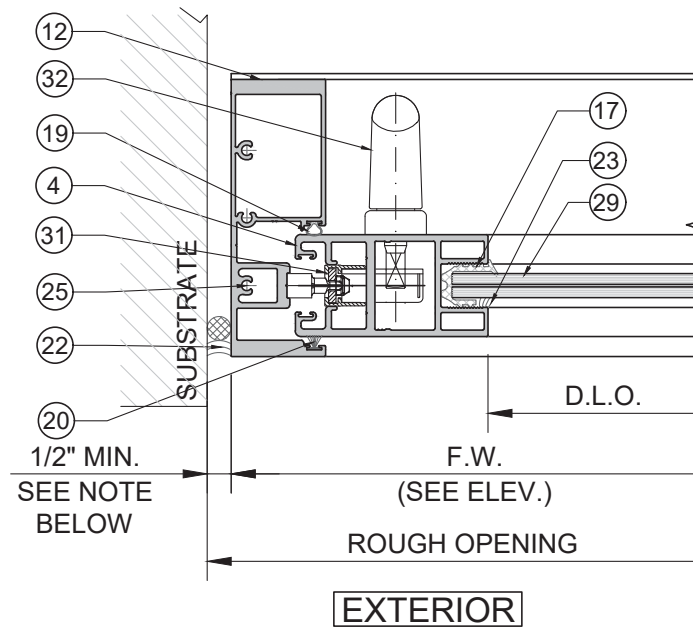
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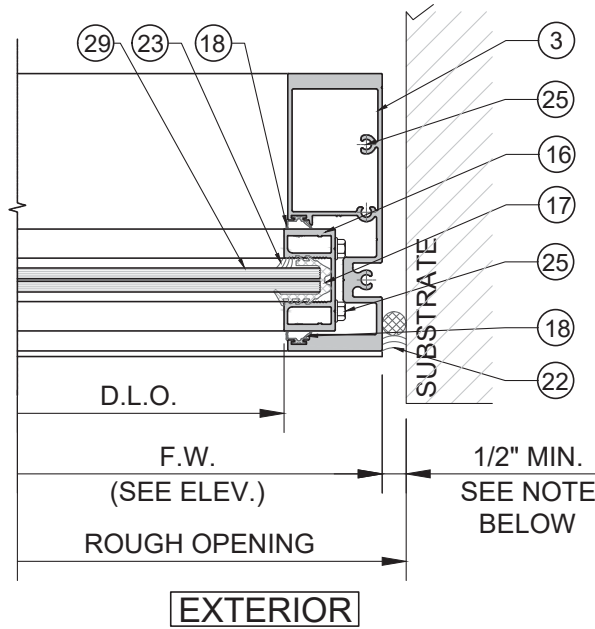
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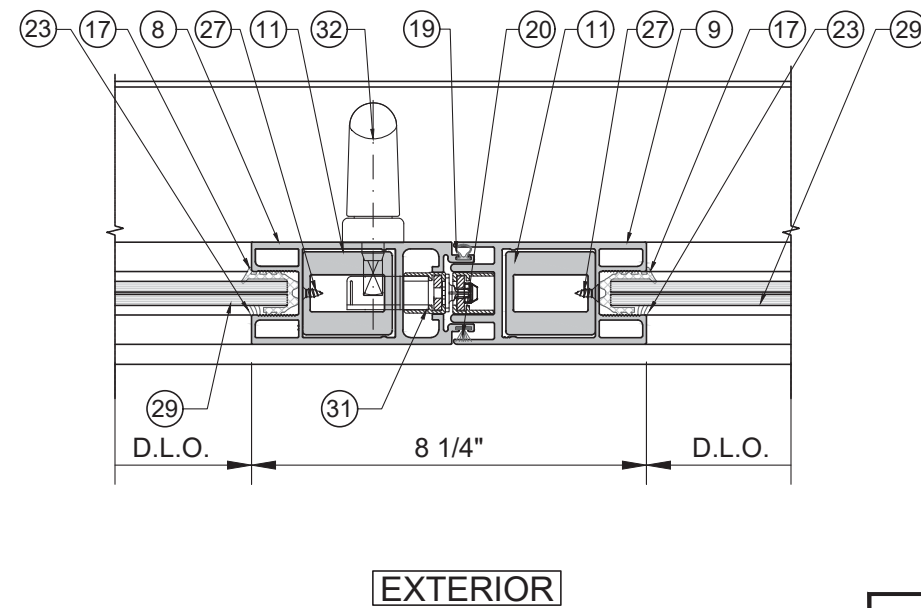
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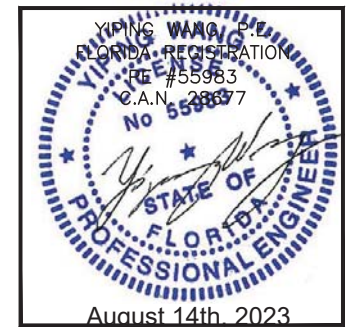


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NOTE:
MAX. JAMB GAP SHOULD BE REVIEWED
BY DELEGATED ENGINEER



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D2

DRAWING NO.
AD17-31

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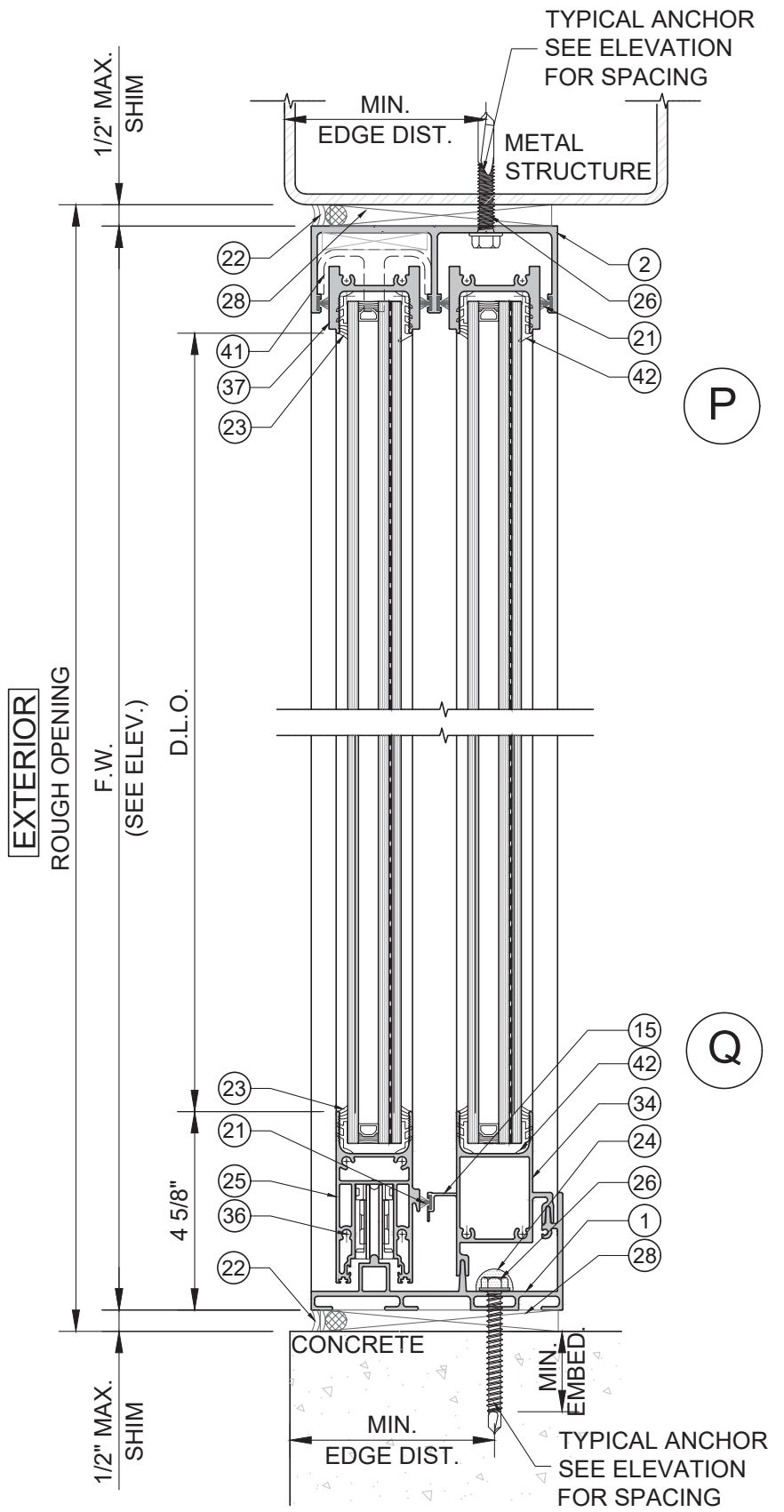
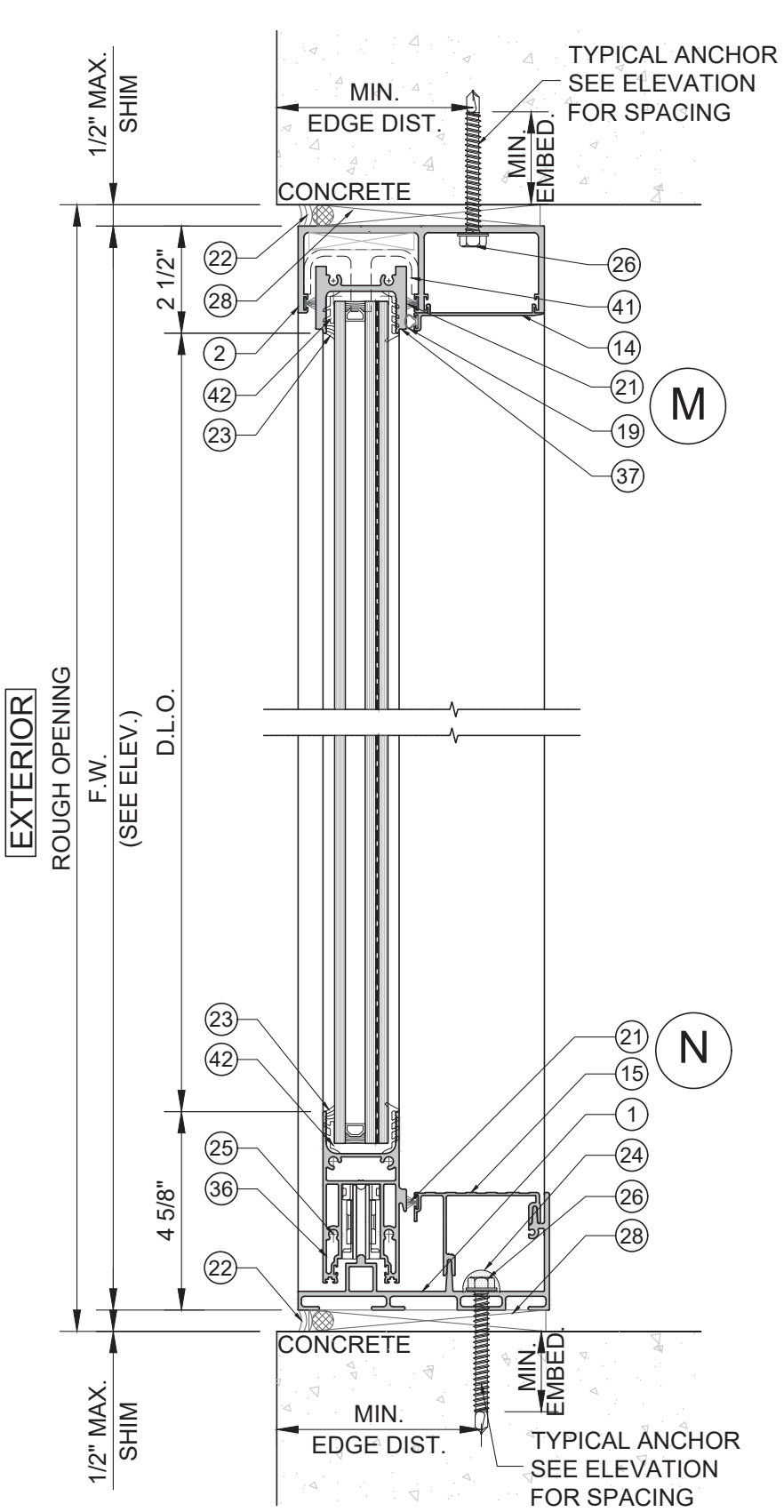


CHART 2: ANCHOR CAPACITIES

NOMINAL DIMENSION		CAPACITIES DUE TO ANCHORS		
PANEL WIDTH (in)	PANEL HEIGHT (in)	E4 PSF	F4 PSF	E6/F6 PSF
<=48	120	100	100	100
50	120	100	100	100
60	120	91	93	100

PANEL WIDTH = FRAME WIDTH/NUMBER OF PANELS

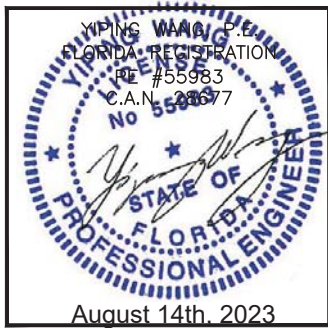
- E4 - (4) ANCHOR TYPE E @ INTERLOCK/ASTRAGAL (2) AT EACH END
F4 - (4) ANCHOR TYPE F @ INTERLOCK/ASTRAGAL (2) AT EACH END
E6 - (6) ANCHOR TYPE E @ INTERLOCK/ASTRAGAL (3) AT EACH END
F6 - (6) ANCHOR TYPE F @ INTERLOCK/ASTRAGAL (3) AT EACH END

TYPICAL ANCHORS (FOR HEAD AND SILL):
(SEE ELEVATIONS FOR SPACING)

TYPE E: 3/8" DIA. KWIK HUS EZ (Fu=125 KSI, Fy= 60 KSI)
WITH 1/2" MAX. SHIM @5" O.C.
2 1/2" MIN. EMBED INTO f_c=3000 PSI MIN.
2 1/2" MIN. EDGE DISTANCE

TYPE F: 3/8" DIA. TAP FLEX INTO 1/4" MIN. THK. METAL STRUCTURE (6063-T5,MIN)
(Fu= 120 KSI, Fy= 92 KSI)
WITH 1/2" MAX. SHIM @5" O.C.
3/4" MIN. EDGE DISTANCE

SEALANTS:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS, INSTALLATION
FASTENERS AT SILL, AND PERIMETER GLAZING BEAD TO FRAME
SEALED WITH SPECTREM 2 OR DC795



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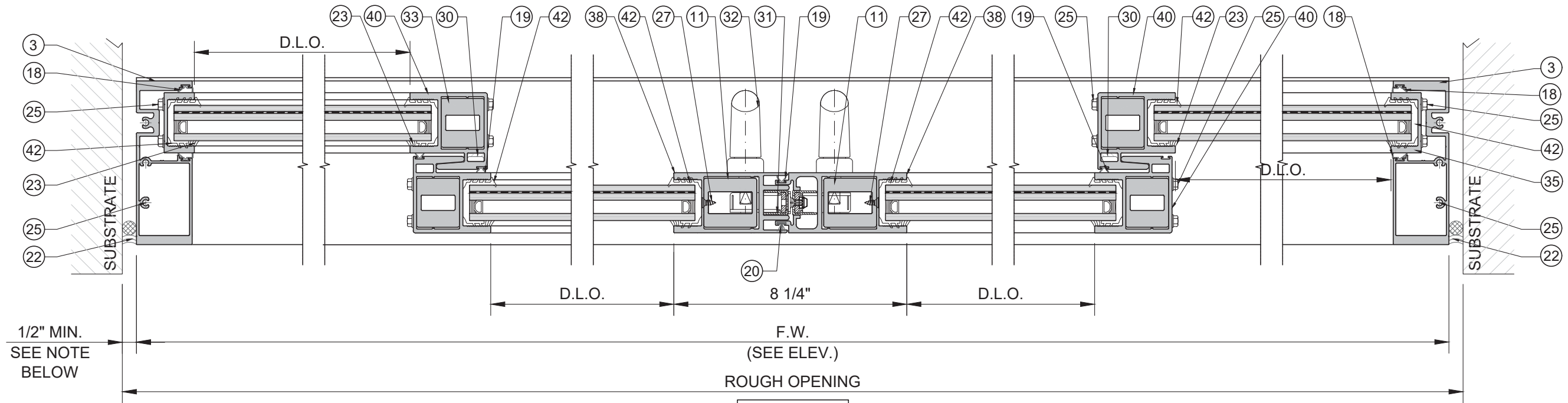
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DRAWN	James
PROJECT	MCY 17-089

D3
DRAWING NO.
AD17-31
8 OF 11



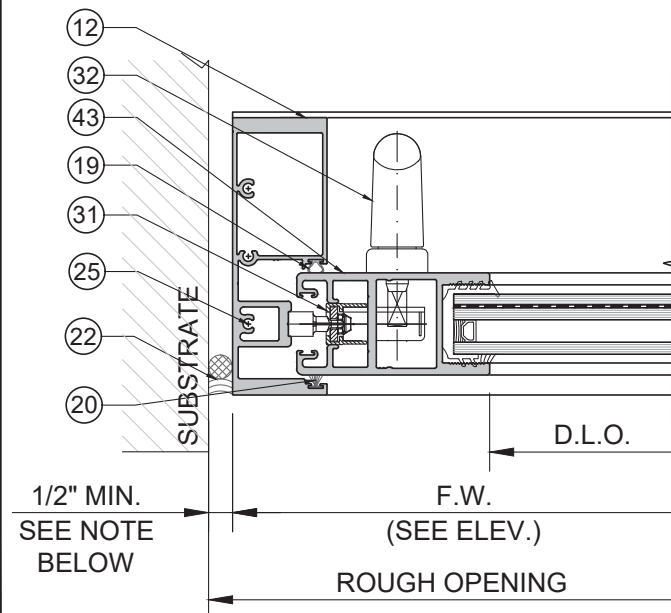
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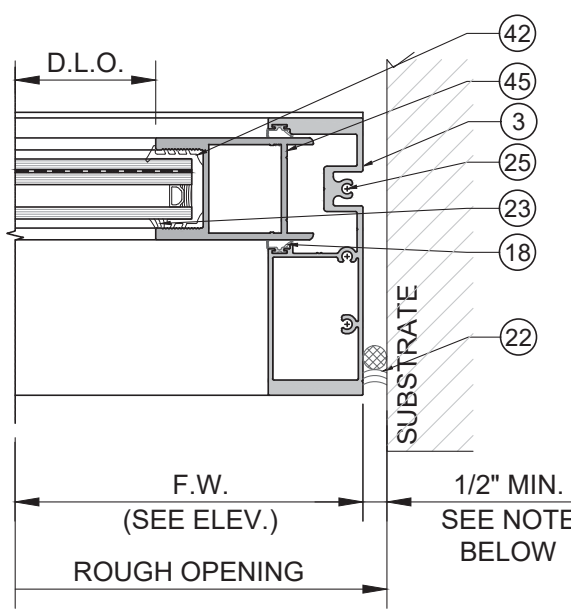
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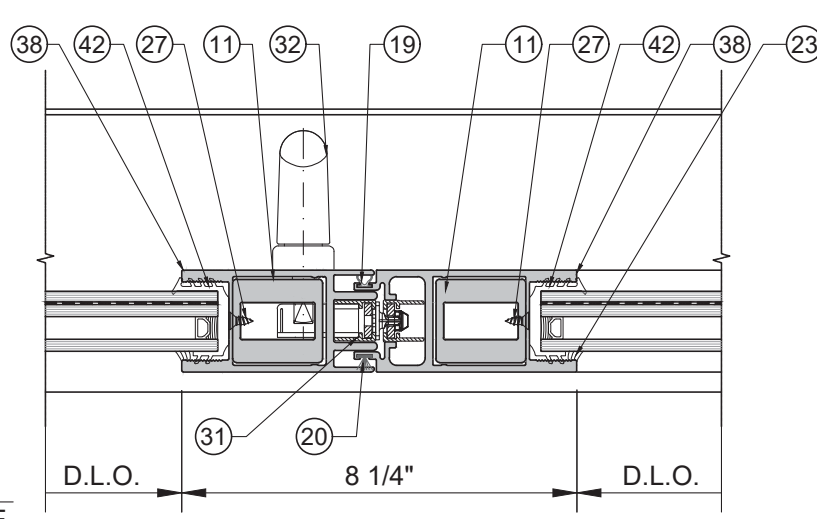
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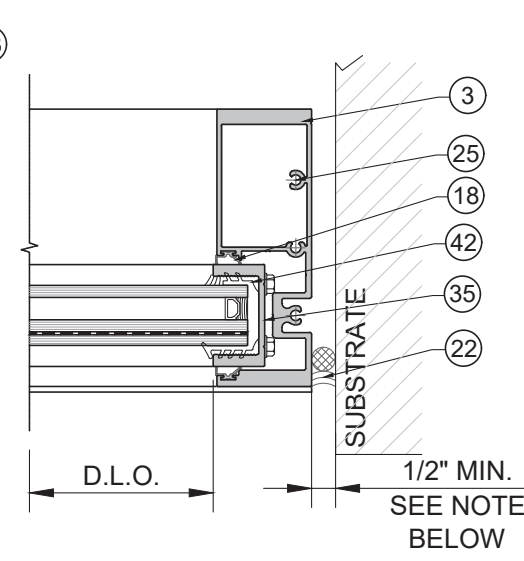
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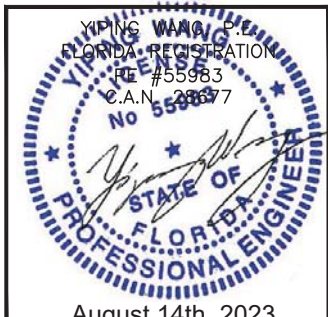


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NOTE:
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BY DELEGATED ENGINEER



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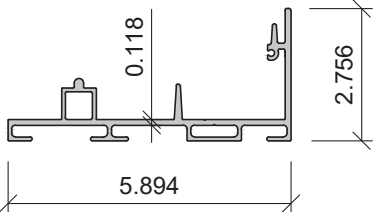
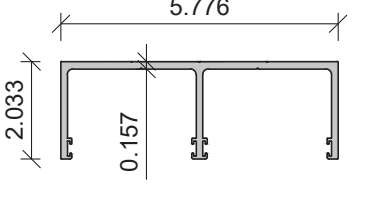
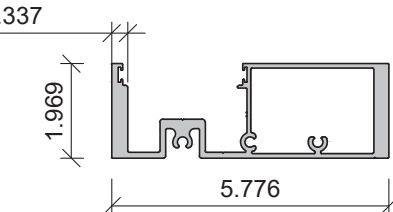
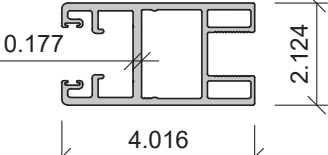
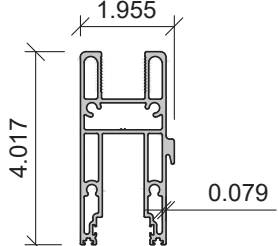
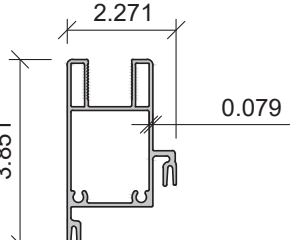
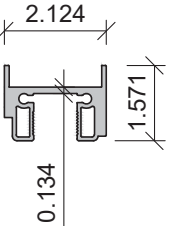
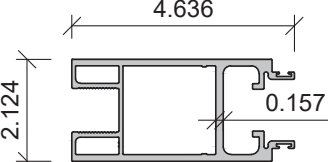
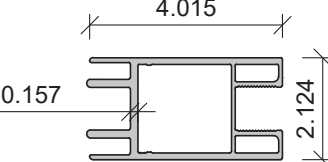
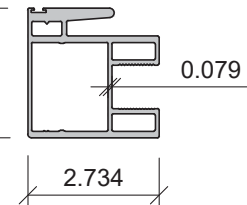
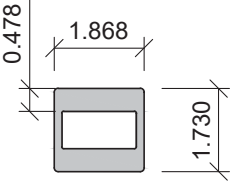
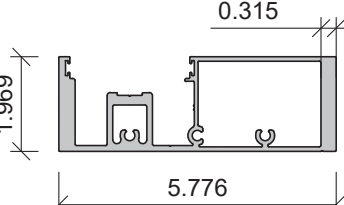
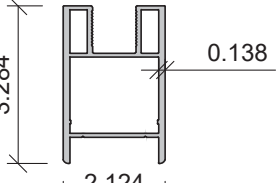
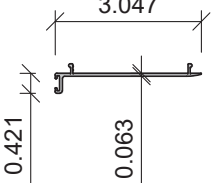
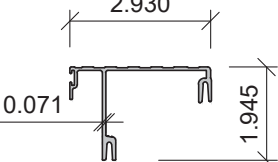
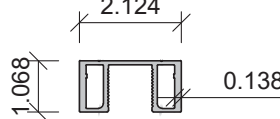
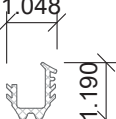
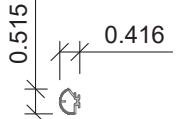
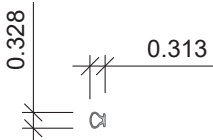
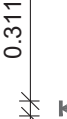
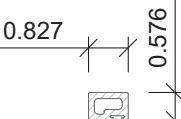
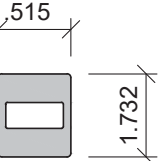
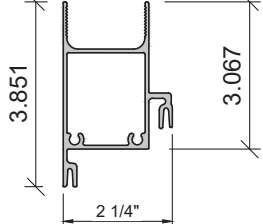
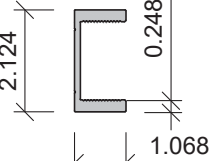
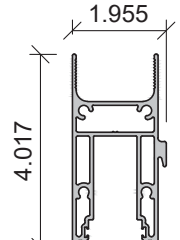
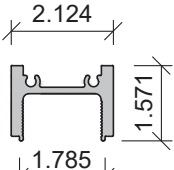
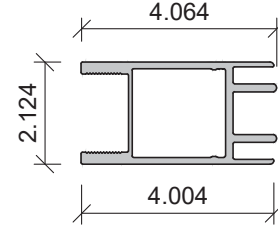
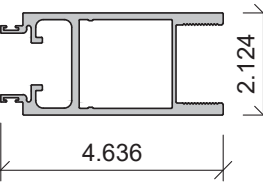
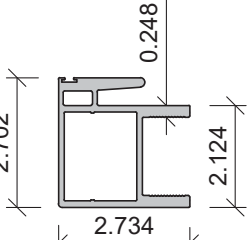
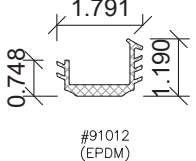
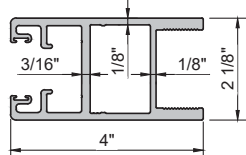
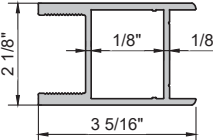
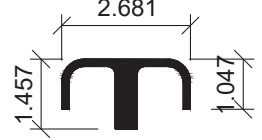
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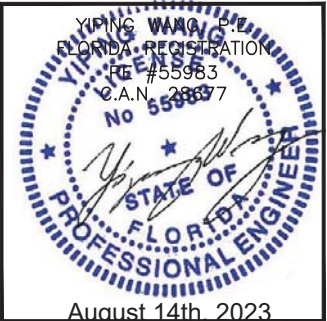
DATE	08.08.2023
SCALE	AS NOTED
DRAWN	James
PROJECT	MCY 17-089

D4

DRAWING NO.
AD17-31

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 1 SILL TRACK (#10601) 6063-T6	 2 HEAD TRACK (#10602) 6063-T6	 3 SELF SUPPORTED JAMB (#10615) 6063-T6	 4 OPERABLE / FIXED PANEL JAMB (#10604) 6005A-T61	 5 OPERABLE PANEL SILL (#10605) 6063-T6	 6 FIXED PANEL SILL (#10606) 6063-T6
 7 PANEL HEAD (#10607) 6063-T6	 8 ASTRAGALE PANEL JAMB (#10608) 6005A-T61	 9 ASTRAGALE PANEL JAMB (#10609) 6005A-T61	 10 PANEL JAMB AT MEETING RAIL (#10610) 6005A-T61	 11 MEETING STILE REINFORCEMENT (#10612) 6005A-T61	 12 LOCK JAMB (#10616) 6063-T6
 13 END FIXED STILE (#10001) 6063-T6	 14 SGD SNAP ON CAP COVER SCREW (#10010) 6063-T6	 15 THRESHOLD SNAP TRACK ADAPTER (#10012) 6063-T6	 16 FIXED STILE (#10013) 6063-T6	 17 GLAZING GASKET (9/16" GLASS) #91011 (EPDM)	 18 RENKO VINYL (#R-2012-FF) #91003 (VINYL)
 19 RENKO VINYL (#R-20391) #91004 (VINYL)	 20 ULTRAFAB WTSP PILE (#W31305NK) #QC SDM007 (POLYPROPYLENE)	 21 ULTRAFAB WTSP PILE (#W71395NK000B) #QC SDM008 (POLYPROPYLENE)	 30 TREMCO (#TR-16551W) #91006 (SCR-900)	 33 MEETING STILE REINFORCEMENT (#10613) 6005A-T61	 34 LIFT & SLIDE FIXED PANEL SILL (#10619)
 35 FIXED STILE (#10024)	 36 LIFT & SLIDE OPERABLE PANEL SILL (#10618)	 37 LIFT & SLIDE PANEL HEAD (#10019)	 38 LIFT & SLIDE ASTRAGALE PANEL JAMB (#10620)	 39 LIFT & SLIDE ASTRAGALE PANEL JAMB (#10621)	 40 PANEL JAMB AT MEETING RAIL (#10022)
 42 GLAZING GASKET S.M.I. (1 5/16" GLASS)	 43 OPERABLE / FIXED PANEL JAMB (#10617) 6005A-T61	 44 FIXED STILE (#10018) 6063-T6	 41 DOOR STOPPER (#91016)		

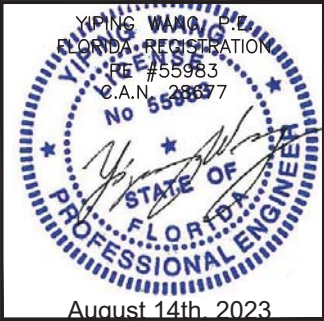
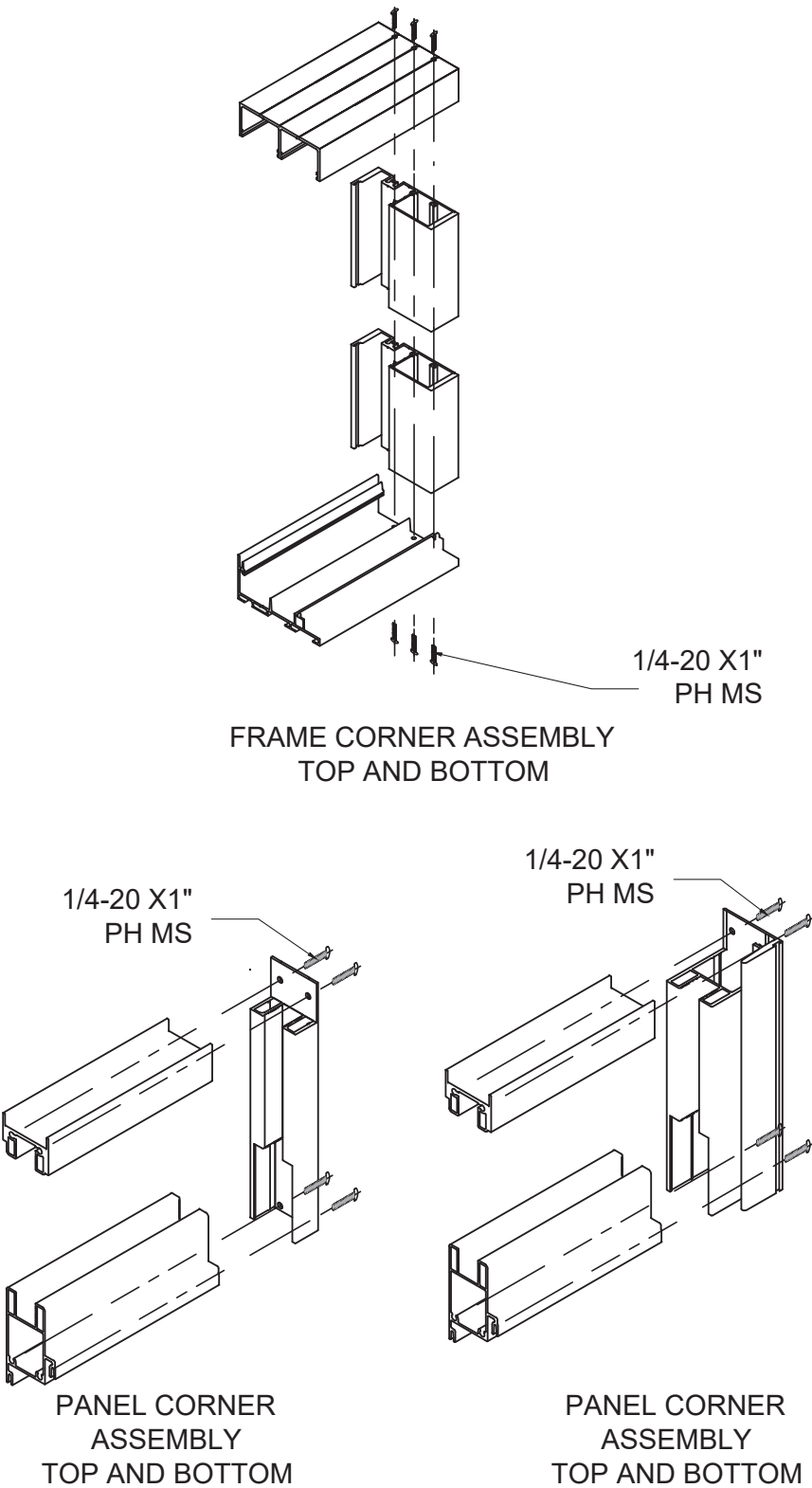


REVISIONS			
NO.	DATE	DESCRIPTION	
4	08.08.23	FBC 2023	

MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com MCY@mcyengineering.com	
EUSA STL-40 LIFT & SLIDE GLASS DOOR SERIES- 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	

FL#24547.2
DATE 08.08.2023
SCALE AS NOTED
DRAWN James
PROJECT MCY 17-089
PARTS
DRAWING NO. AD17-31
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BILL OF MATERIALS			
ITEM	PART	DESCRIPTION	MATERIAL
1	10601	LIFT AND SLIDE SILL TRACK	ALUM. 6063-T6
2	10602	LIFT AND SLIDE HEAD TRACK	ALUM. 6063-T6
3	10615	LIFT AND SLIDE SELF SUPPORTED JAMB	ALUM. 6063-T6
4	10604	LIFT AND SLIDE OPERABLE / FIXED PANEL JAMB	ALUM. 6005A-T61
5	10605	LIFT AND SLIDE OPERABLE PANEL SILL	ALUM. 6063-T6
6	10606	LIFT AND SLIDE FIXED PANEL SILL	ALUM. 6063-T6
7	10607	LIFT AND SLIDE PANEL HEAD	ALUM. 6063-T6
8	10608	LIFT AND SLIDE ASTRAGALE PANEL JAMB	ALUM. 6005A-T61
9	10609	LIFT AND SLIDE ASTRAGALE PANEL JAMB	ALUM. 6005A-T61
10	10610	LIFT AND SLIDE PANEL JAMB AT MEETING RAIL	ALUM. 6005A-T61
11	10612	LIFT AND SLIDE MEETING STILE REINFORCEMENT	ALUM. 6005A-T61
12	10616	LIFT AND SLIDE LOCK JAMB	ALUM. 6063-T6
13	10001	END FIXED STILE	ALUM. 6063-T6
14	10010	SLIDING GLASS DOOR SNAP ON CAP COVER SCREW	ALUM. 6063-T6
15	10012	THRESHOLD SNAP TRACK ADAPTER	ALUM. 6063-T6
16	10013	END FIXED STILE	ALUM. 6063-T6
17	91011	GLAZING GASKET FOR 9/16" LAMINATED GLASS	GASKET
18	91003	RENKO VINYL(#R-2012-FF)	VINYL
19	91004	RENKO VINYL (#R-20391)	VINYL
20	QC SDM007	ULTRAFAB WTSP PILE #W31305NK	POLYPROPYLENE
21	QC SDM008	ULTRAFAB WTSP PILE #W71395NK000B	POLYPROPYLENE
22	DC-790	BACKER ROD AND SEALANT DC-790	SILICONE
23	N/A	SEALANT SPECTREM 2 OR DC 795, REFER TO ELEVATIONS	SILICONE
24	DC-795	SEALANT DC-795	SILICONE
25	N/A	#14 x 1 1/2" HH SS ASSEMBLY SCREW	STEEL
26	N/A	TYPICAL ANCHOR	STEEL
27	N/A	#10 x 1/2" FH SS	STEEL
28	N/A	P.V.C. SHIM	P.V.C.
29	N/A	9/16" LAMINATED GLASS	GLASS
30	TR-16551W	1/2" LONG FILLER GASKET TREMCO (#TR-16551W)	SCR-900
31	HS-PORTAL 300 LM	Sz 260. LIFT AND SLIDE HARDWARE W/ 2 ADD. LOCKING HS	-
32	HS 250 PZ	HANDLE AND LOCK	-
33	10613	LIFT AND SLIDE MEETING STILE REINFORCEMENT	ALUM. 6005A-T61
34	10619	LIFT & SLIDE FIXED PANEL SILL	ALUM. 6063-T6
35	10024	FIXED STILE	ALUM. 6063-T6
36	10618	LIFT & SLIDE OPERABLE PANEL SILL	ALUM. 6063-T6
37	10019	LIFT & SLIDE PANEL HEAD	ALUM. 6063-T6
38	10620	LIFT & SLIDE ASTRAGALE PANEL JAMB	ALUM. 6005A-T61
39	10621	LIFT & SLIDE ASTRAGALE PANEL JAMB	ALUM. 6063-T6
40	10022	PANEL JAMB AT MEETING RAIL	ALUM. 6063-T6
41	91016	DOOR STOPPER	GASKET
42	91012	GLAZING GASKET S.M.I. FOR 1 5/16 GLASS"	EPDM
43	10617	OPERABLE / FIXED PANEL JAMB	ALUM. 6005A-T61
44	10018	FIXED STYLE	ALUM. 6063-T6



REVISIONS	
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**MCY ENGINEERING, INC.**
GLAZING CONSULTANTS

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www.MCYEngineering.com MCY@mcyengineering.com

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