

# LINEA ROSSA LLC

## SERIES "LR-480" ALUMINUM BI-FOLD DOOR LARGE MISSILE IMPACT

SERIES LR-480 ALUMINUM BI-FOLD DOOR-LMI  
 LINEA ROSSA LLC  
 1850 NW 84TH AVENUE  
 SUITE 114, DORAL, FL 33126  
 TEL. 786 431 5554    info@linearossadesign.com

**GENERAL NOTES:**

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION OF FLORIDA BUILDING CODE 2020 INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS RATED FOR LARGE MISSILE IMPACT. LMI SYSTEM TO BE USED FOR INSTALLATIONS UP TO 30 FT OF GRADE. IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE DOORS 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 7TH EDITION OF FLORIDA BUILDING CODE 2020 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 7-16, 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.
- 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 7-16 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 FOR TYPICAL ELEVATION OF STANDARD STILE DOOR, E2 FOR NARROW STILE DOOR.
- STEP 3: SEE SHEET G1 FOR APPROVED GLASS OPTIONS AND ALLOWED CAPACITIES BASED ON PANEL SIZE.
- STEP 4: ANCHOR TYPE SEE SHEET A1. ANCHOR LAYOUT SEE SHEET E1 & E2.
- 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.

**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 ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

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#40702**

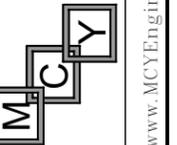


ABBREVIATIONS AND SYMBOLS	
G.B. - GLASS BITE	
D.L.O. - DAYLITE OPENING	
F.H. - FRAME HEIGHT	
F.W. - FRAME WIDTH	
W/ - WITH	
W/O - WITHOUT	
O.C. - ON CENTER	

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 www.MCYEngineering.com    mcy@mcyengineering.com

Rev. No.	Date	Drawn By	Description
1.	01.09.2022	JAMES WANG	NEW FBC APPROVAL

Drawn Date	01.09.2022	Scale	
DRAWING NO.			
<b>AD21-58</b>			
COVER			
Sheet No.			
<b>1 OF 12</b>			



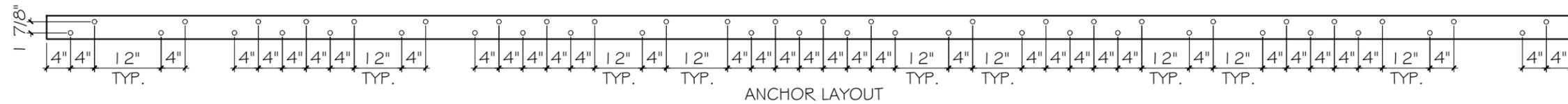
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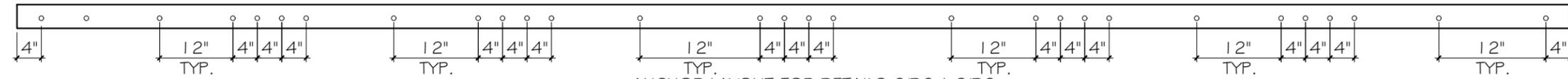
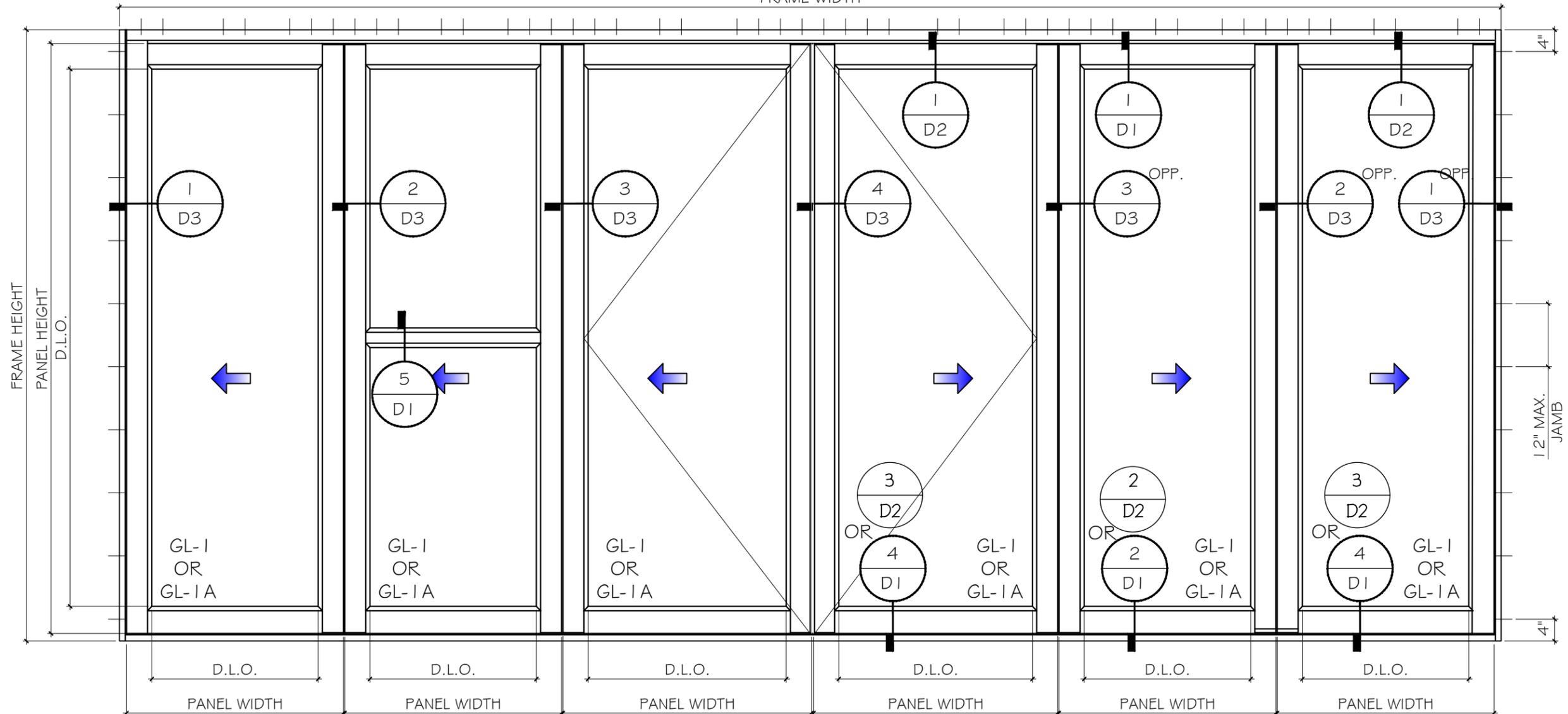
E1

Sheet No. 2 OF 12



ANCHOR LAYOUT

FRAME WIDTH



ANCHOR LAYOUT FOR DETAILS 2/D2 & 3/D2.  
REFER TO SHEET E2 FOR ANCHOR LAYOUT FOR DETAILS 2/D1 & 4/D1

NOM. PANEL WIDTH = (FRAME WIDTH - 3")/NUMBER OF PANEL  
NOM. PANEL HEIGHT = FRAME HEIGHT - 3.81"  
DLO WIDTH = PANEL WIDTH - 9.31"  
DLO HEIGHT = FRAME HEIGHT - 13.75"

TYPICAL EXTERIOR ELEVATION  
(WITH STD STILE)

INTERIOR

EXTERIOR



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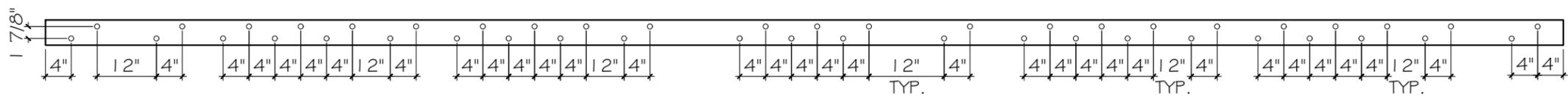
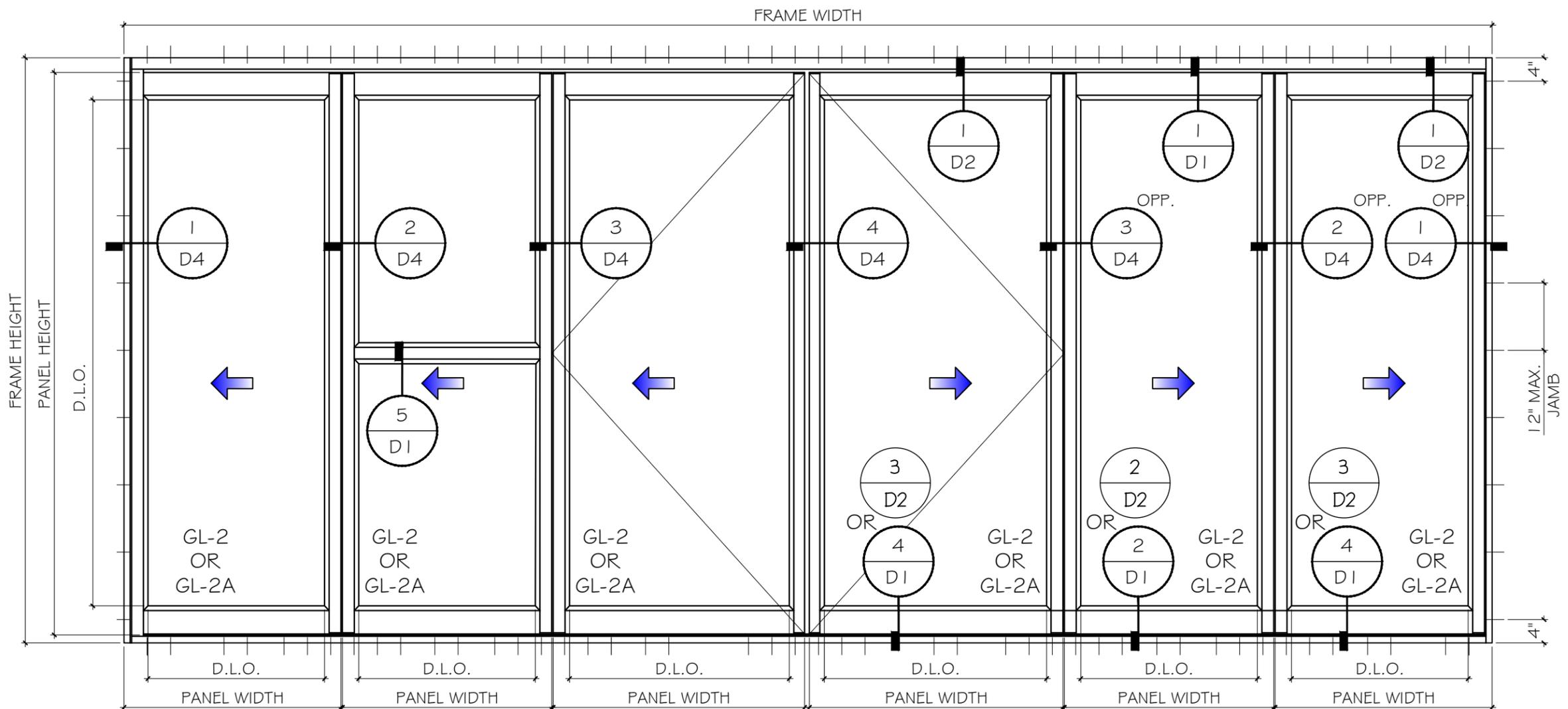
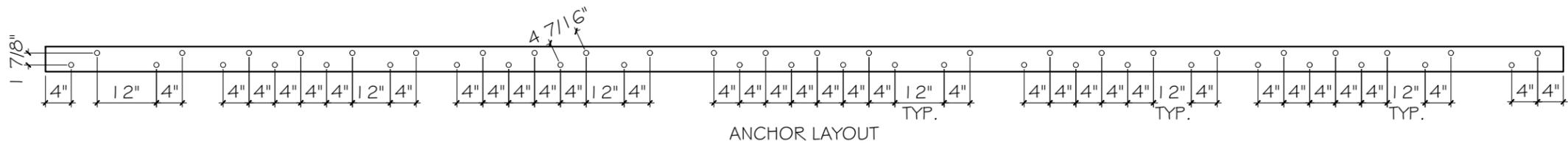
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Drawn Date: 01.09.2022 Scale:

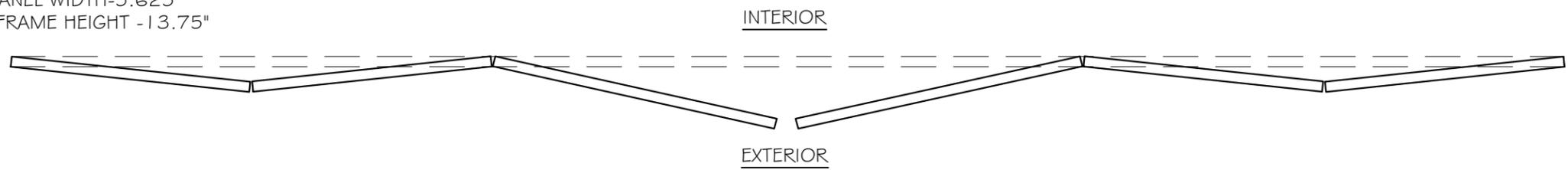
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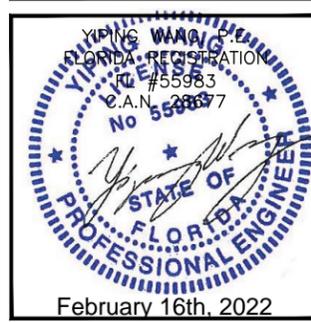
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NOM. PANEL WIDTH = (FRAME WIDTH - 3") / NUMBER OF PANEL  
NOM. PANEL HEIGHT = FRAME HEIGHT - 3.81"  
DLO WIDTH = PANEL WIDTH - 5.625"  
DLO HEIGHT = FRAME HEIGHT - 13.75"

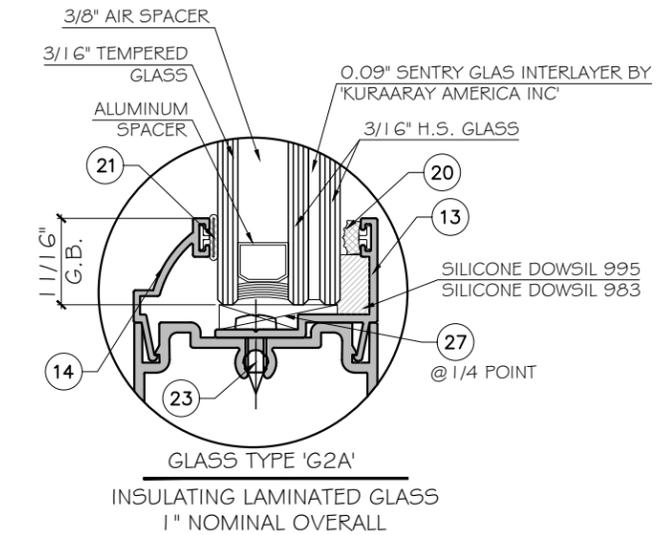
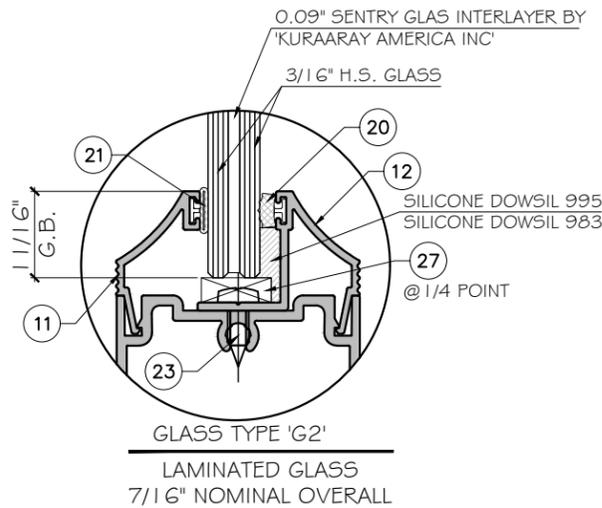
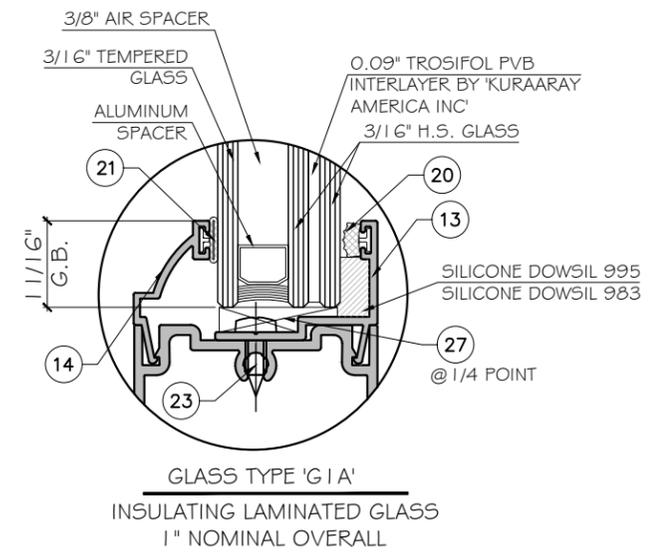
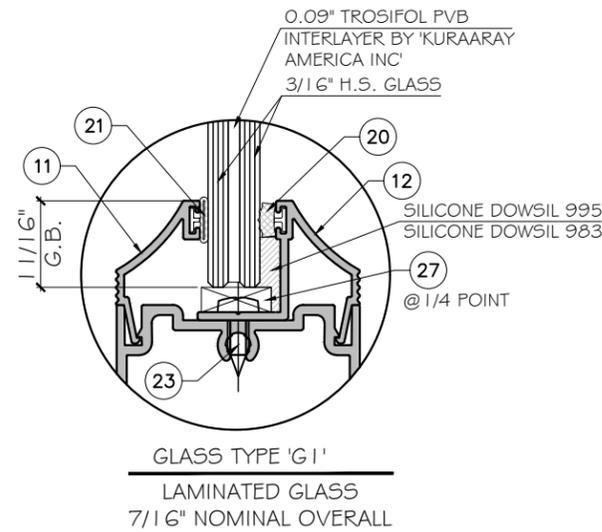


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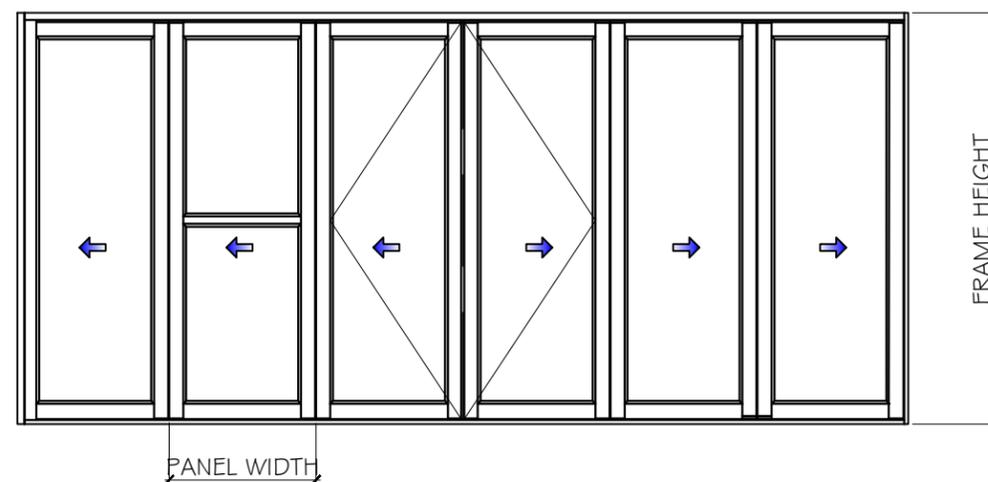


DESIGN LOAD CAPACITY - PSF STD STILE		
DIMENSIONS		GLASS TYPE
FRAME HEIGHT	PANEL WIDTH	'G1' & 'G1A' & 'G2' & 'G2A'
INCH	INCH	(+)/(-)
78	30	+90/-90
	36	+90/-90
	42	+90/-90
	48	+90/-90
	54	+90/-90
84	30	+90/-90
	36	+90/-90
	42	+90/-90
	48	+90/-90
	52	+90/-90
90	30	+90/-90
	36	+90/-90
	42	+90/-90
	48	+90/-90
96	30	+90/-90
	36	+90/-90
	42	+90/-90
102	30	+90/-90
	36	+90/-90
	42	+90/-90
108	30	+90/-90
	36	+90/-90
	40	+90/-90
112.188	30	+90/-90
	36	+90/-90
	40	+90/-90

DESIGN LOAD CAPACITY - PSF NARROW STILE			
PANEL DIMS.		GLASS TYPE	
FRAME HEIGHT	PANEL WIDTH	'G2' & 'G2A'	'G1' & 'G1A'
INCH	INCH	(+)/(-)	(+)/(-)
78	30	+100/-100	+90/-90
	36	+100/-100	+90/-90
	42	+100/-100	+90/-90
84	30	+100/-100	+90/-90
	42	+100/-100	+90/-90
90	30	+100/-100	+90/-90
	36	+100/-100	+90/-90
96	30	+100/-100	+90/-90
	36	+100/-100	+90/-90



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



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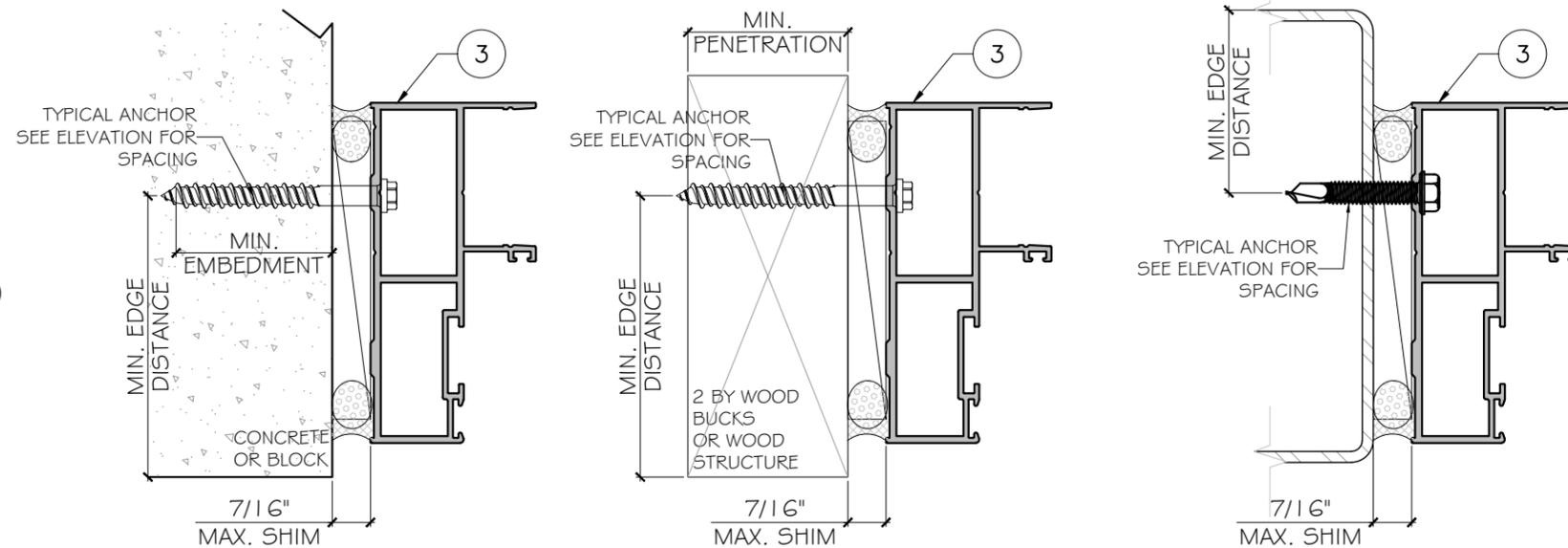
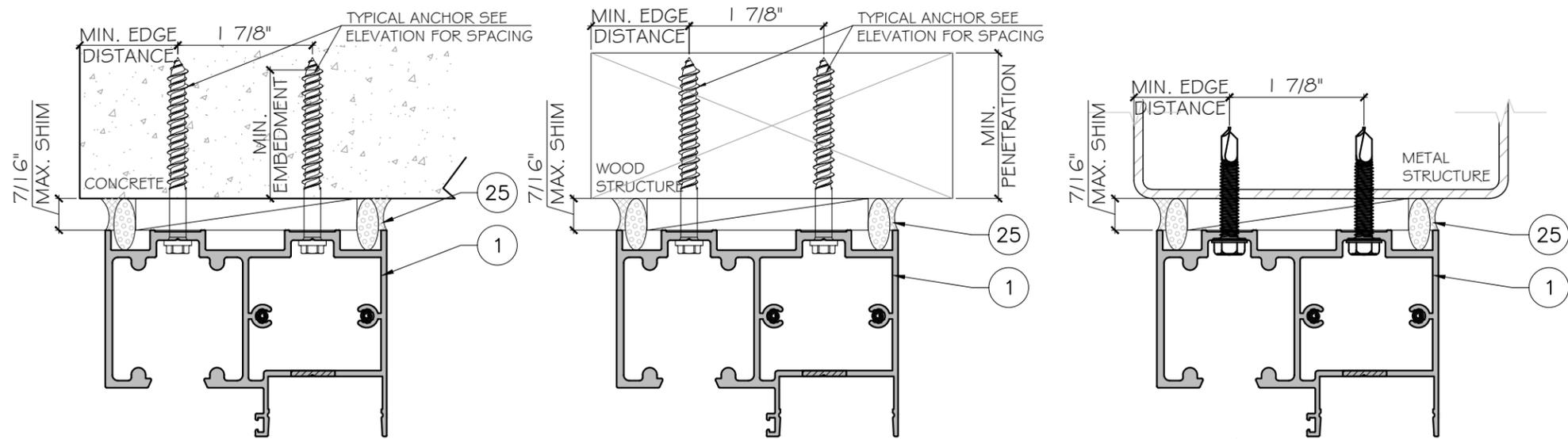
YING WANG  
FLORIDA REGISTRATION  
#55983  
C.A.N. 2887  
No 55983  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
February 16th, 2022

Rev. No.	Date	Drawn By	Description
1.	01.09.2022	JAMES	NEW FEC APPROVAL

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**ANCHOR TYPES: (SEE ELEVATIONS FOR SPACING)**

**TYPE 'A'** -- 5/16" DIA. ULTRACON BY 'DEWALT' ( $F_u=177$  KSI,  $F_y=155$  KSI)  
 INTO 2 BY WOOD BUCKS OR WOOD STRUCTURES.  
 1 1/2" MIN. PENETRATION INTO WOOD

THRU 1 BY BUCKS INTO CONCRETE OR BLOCKS  
 1 3/4" MIN. EMBED INTO CONCRETE  
 1 1/4" MIN. EMBED IN TO HOLLOW  
 1 3/4" MIN. INTO GROUT FILLED BLOCK (JAMB ONLY)

**TYPE 'B'** -- 5/16" DIA. ULTRACON BY 'DEWALT' ( $F_u=177$  KSI,  $F_y=155$  KSI)  
 DIRECTLY INTO CONCRETE OR BLOCKS  
 2" MIN. EMBED INTO CONCRETE  
 1 3/4" MIN. EMBED INTO HOLLOW OR GROUT FILLED BLOCK (JAMB ONLY)

**TYPE 'C'** -- 5/16" DIA. DRIL FLEX, GRADE 5 ( $F_u=120$  KSI,  $F_y=92$  KSI)  
 INTO FBC APPROVED MULLIONS (3/16" THK. MIN.) (G063-T5 MIN)  
 OR INTO METAL STRUCTURES, STEEL: 1/8" THK. MIN. ( $F_y=36$  KSI MIN.)  
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

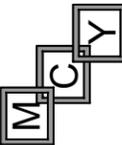
**CRITICAL EDGE DISTANCE**

INTO CONCRETE OR BLOCK = 2-1/2" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.  
 INTO WOOD STRUCTURE = 1 1/4" MIN.  
 WOOD AT HEAD OR JAMBS SG = 0.55 MIN.  
 CONCRETE AT HEAD, SILL OR JAMB  $f'_c=3500$  KSI MIN.  
 C-90 HOLLOW/ GROUT FILLED BLOCK AT JAMBS  $f_m=2000$  PSI MIN.

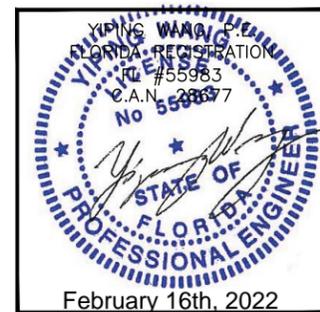
WOOD BUCKS AND METAL STRUCTURE (NOT BY LINEA ROSSA LLC.) MUST BE DESIGNED AND ANCHORED PROPERLY TO SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSOM THEM TO THE BUILDING STRUCTURE.

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**FL#40702**



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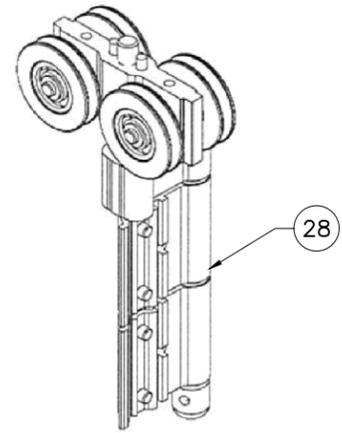
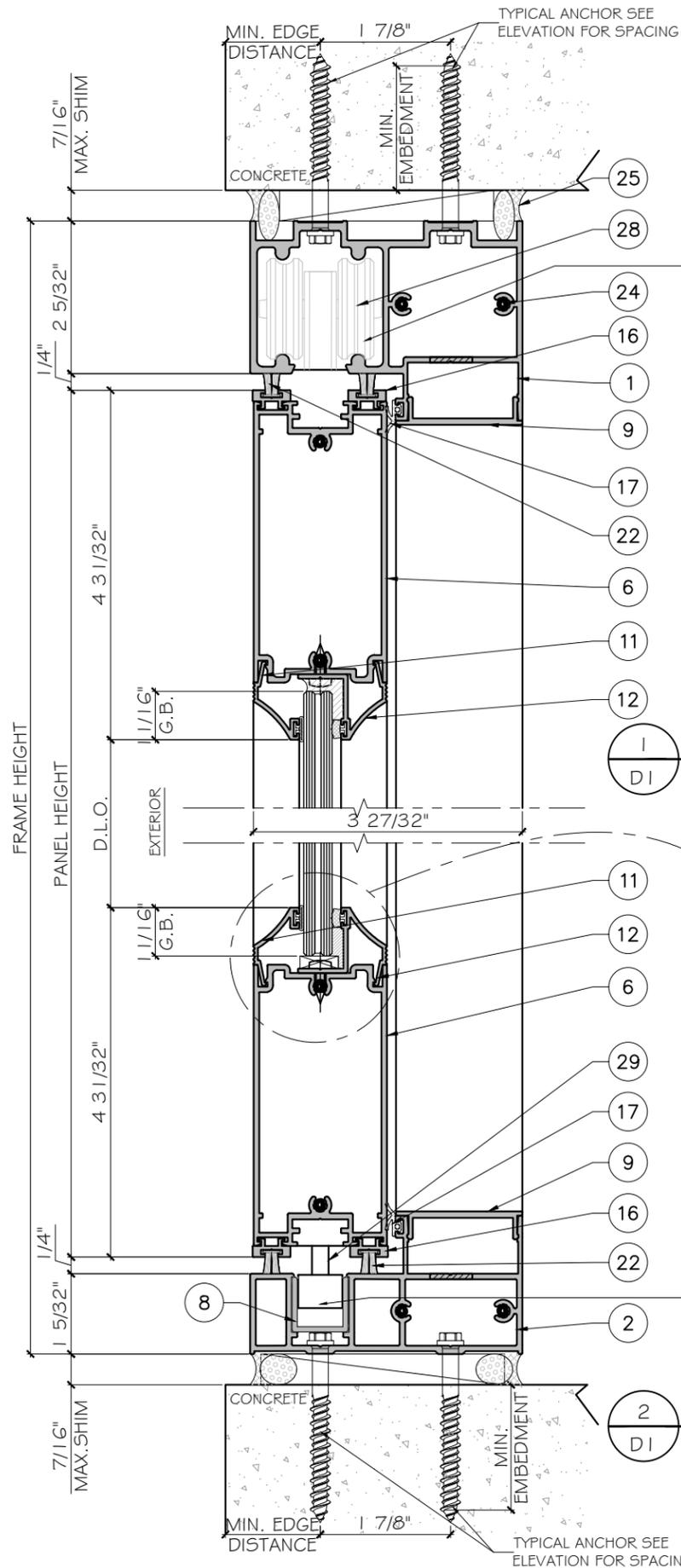
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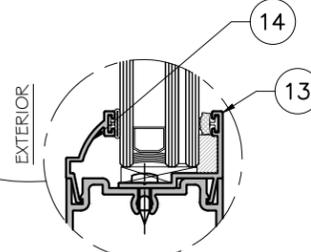
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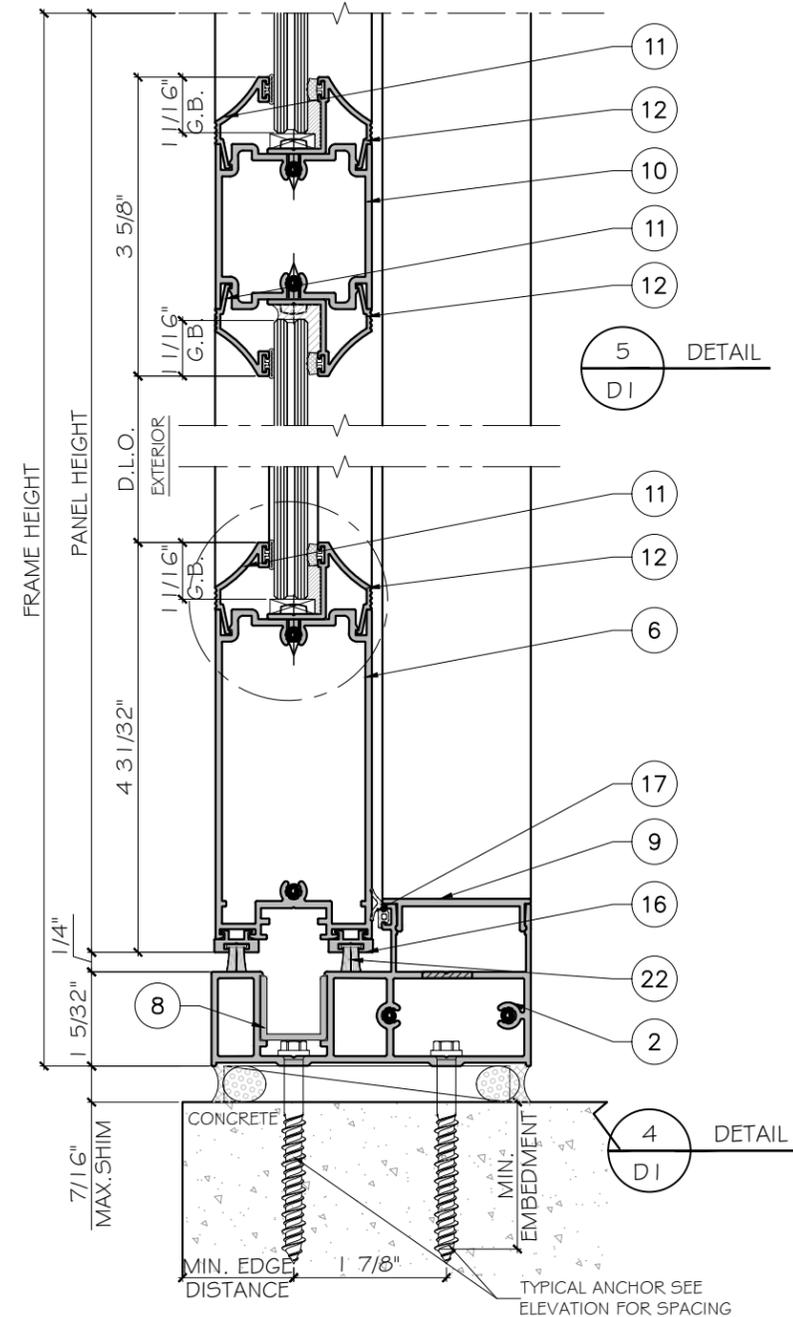
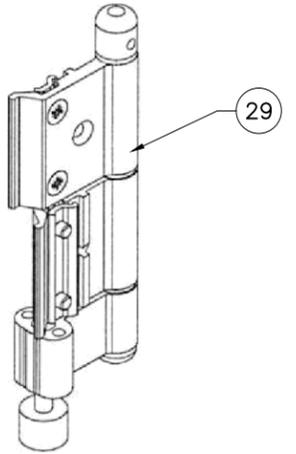
SHEET NO.
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HARDWARE  
DETAIL

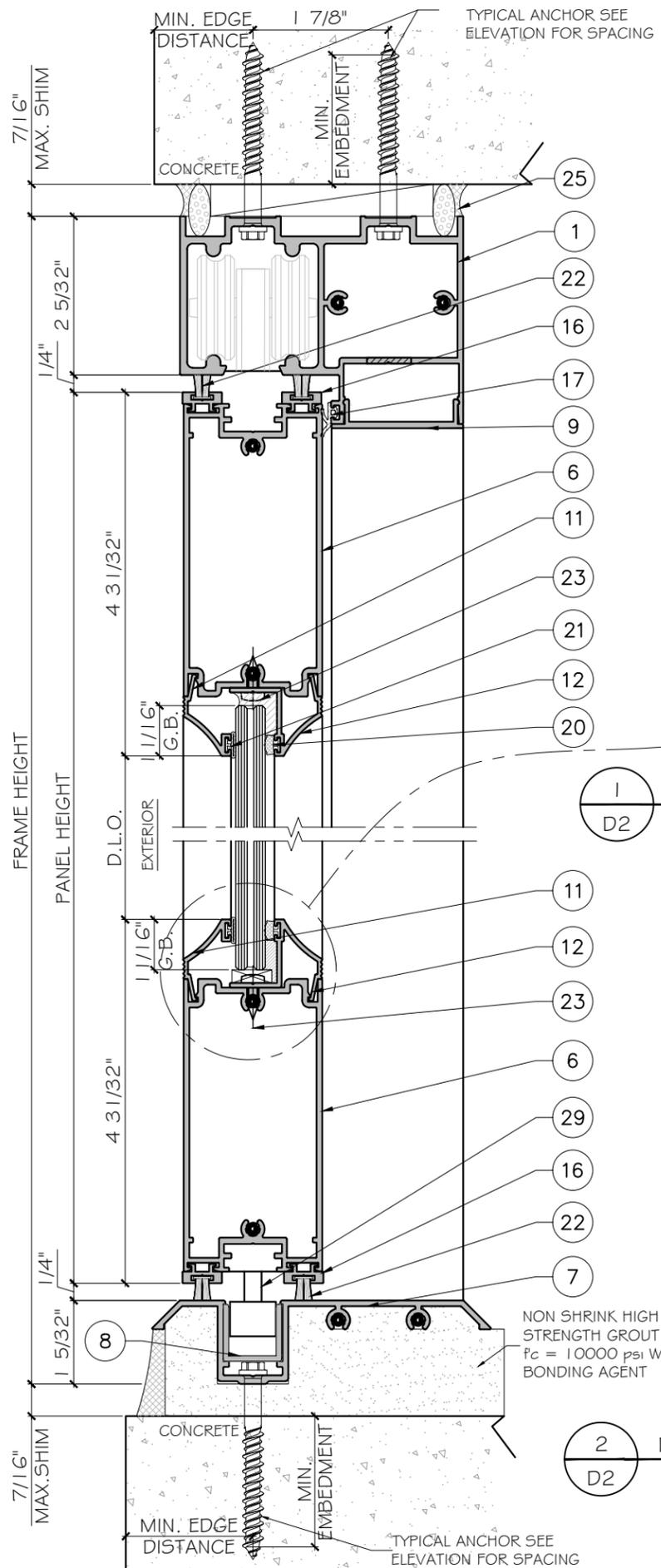


DETAIL FOR GLASS TYPE  
'GL-1A' & 'GL-2A'



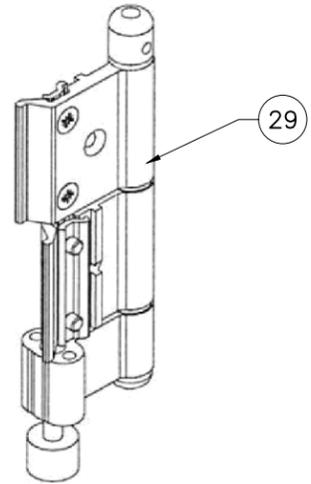
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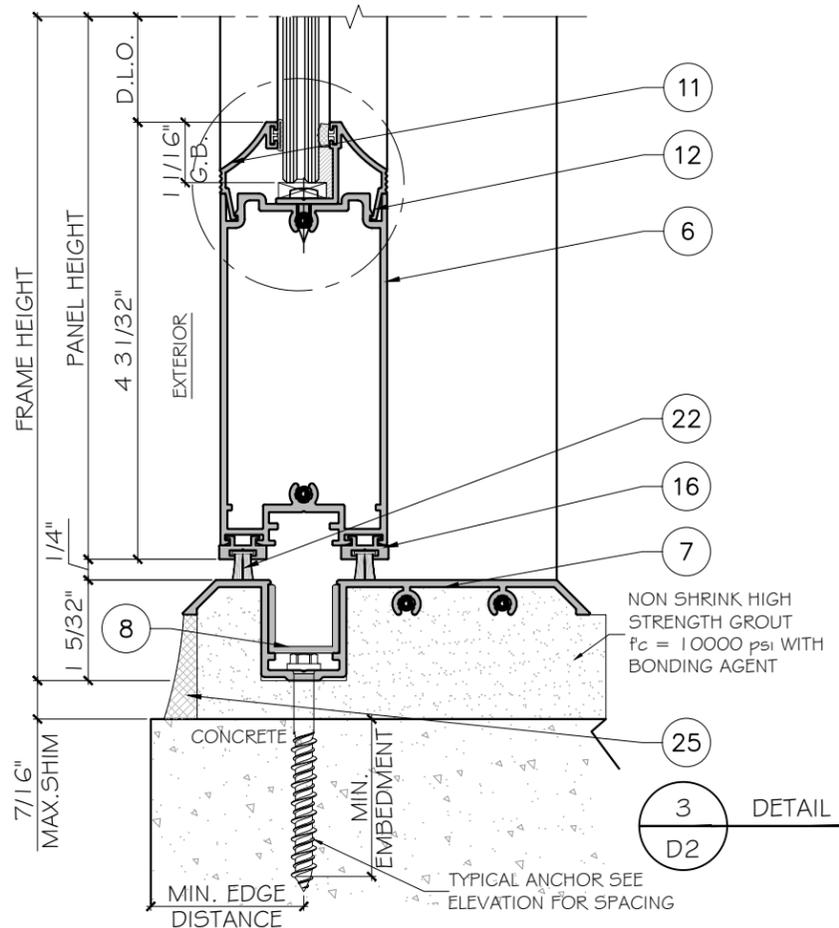


1 DETAIL  
D2

DETAIL FOR GLASS TYPE  
'GL-1A' & 'GL-2A'



2 DETAIL  
D2



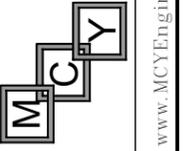
3 DETAIL  
D2

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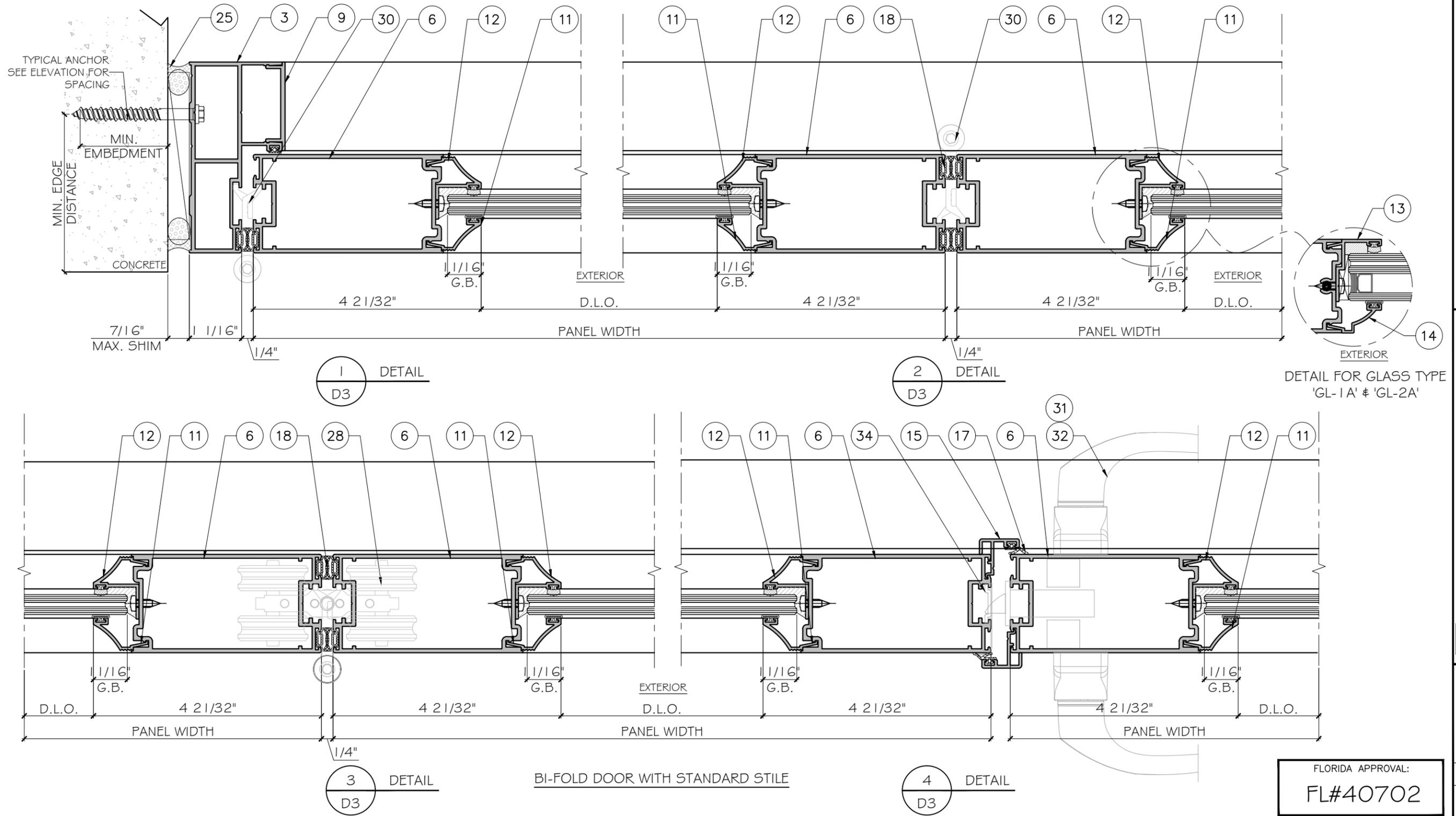
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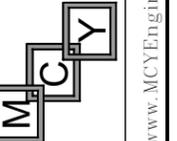
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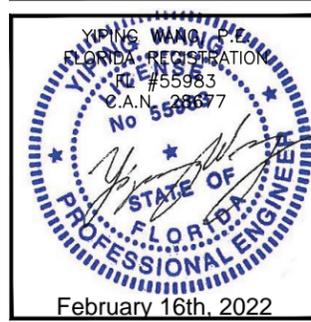
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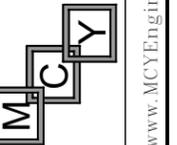
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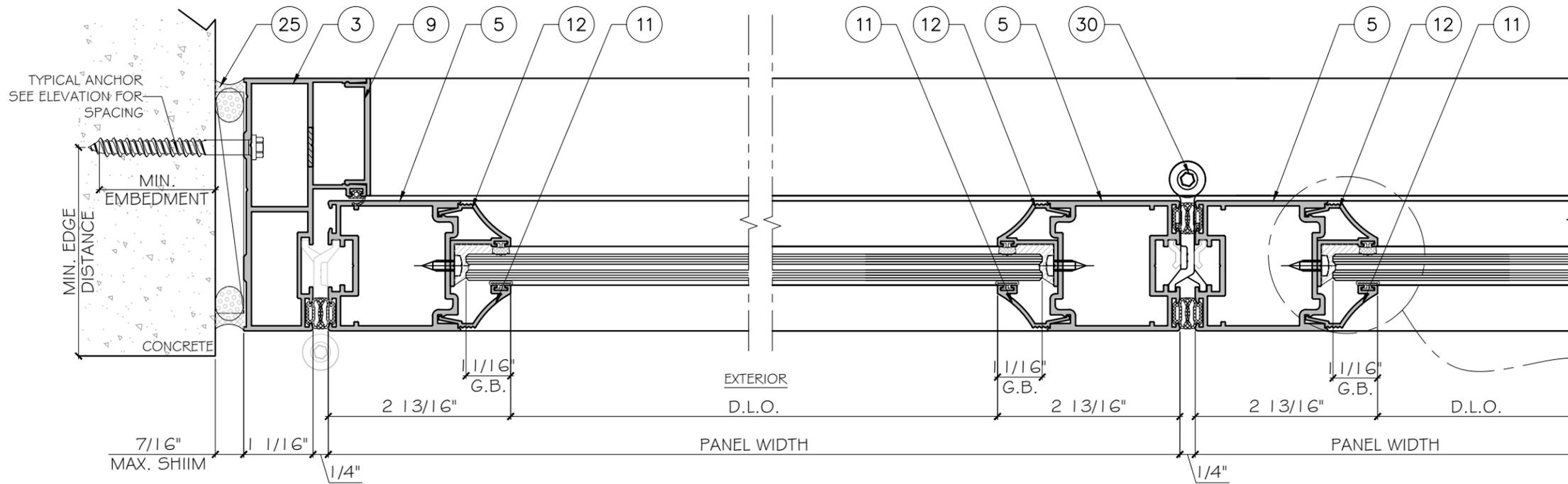


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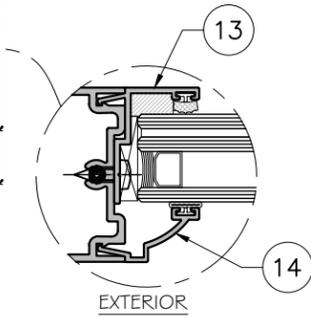
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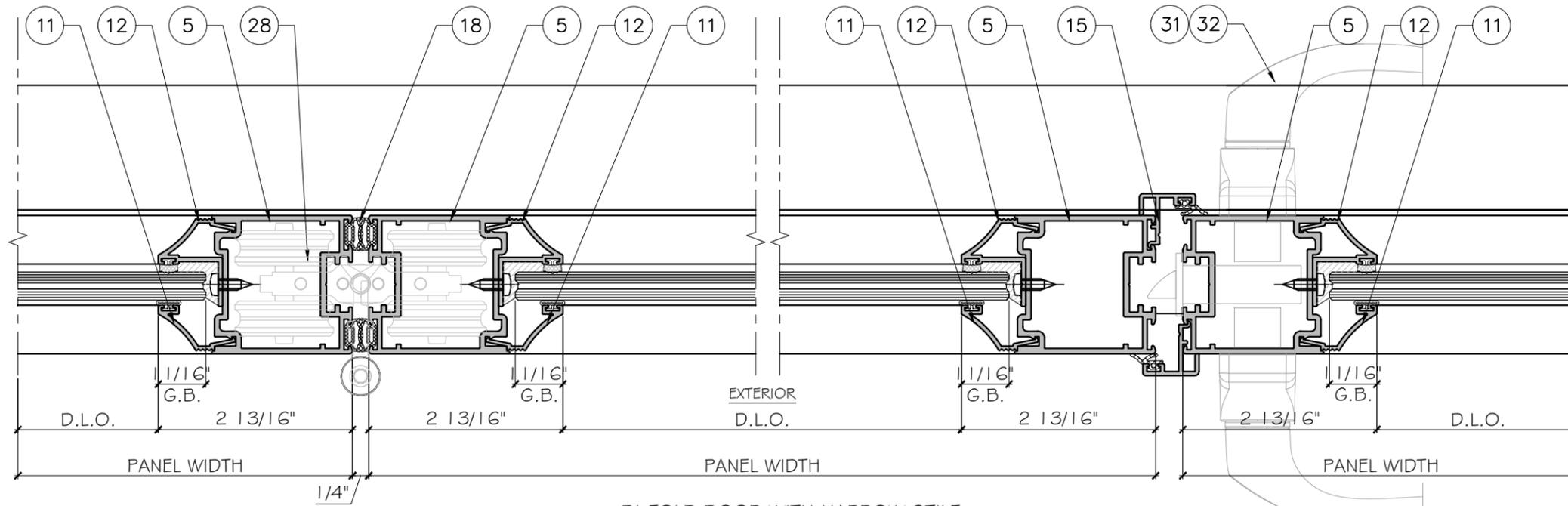


1 DETAIL  
D4

2 DETAIL  
D4



EXTERIOR  
DETAIL FOR GLASS TYPE  
'GL-1A' & 'GL-2A'

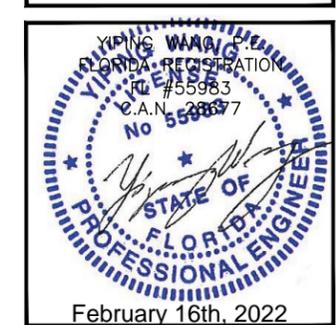


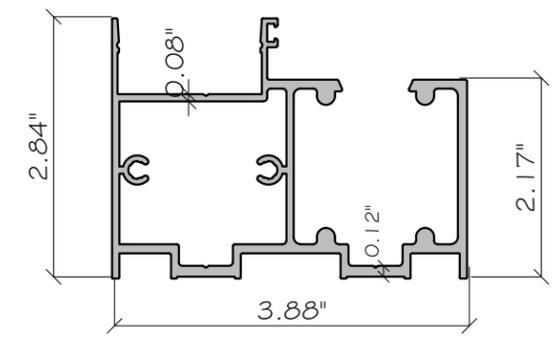
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D4

4 DETAIL  
D4

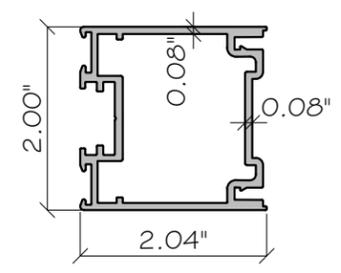
BI-FOLD DOOR WITH NARROW STILE

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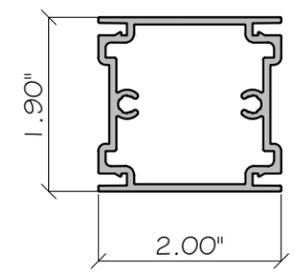




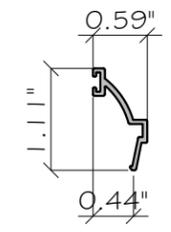
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TRANSOM MULLION  
ALUM. 6063-T6



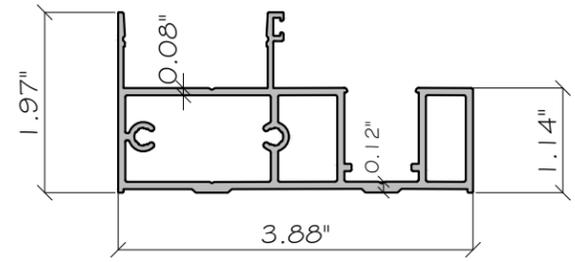
⑤ LR480-05 HINGE/ LOCK STILE PROFILE  
ALUM. 6063-T6



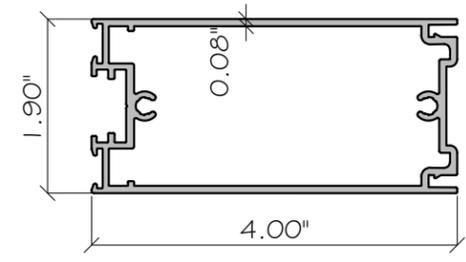
⑩ LR480-10 TOP/ BOTTOM RAIL PROFILE  
ALUM. 6063-T6



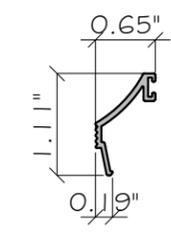
⑭ LR460-18 EXTERIOR GLASS STOP  
ALUM. 6063-T6



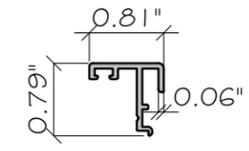
② LR480-02 DOOR SIDELITE FRAME SILL  
TRANSOM MULLION  
ALUM. 6063-T6



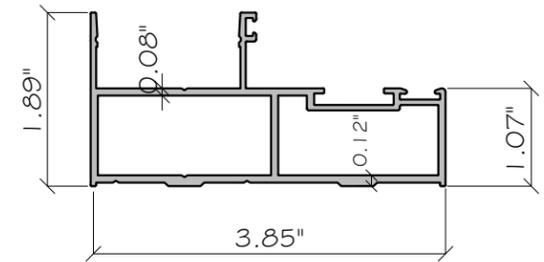
⑥ LR480-06 TOP BOTTOM RAIL PROFILE  
ALUM. 6063-T6



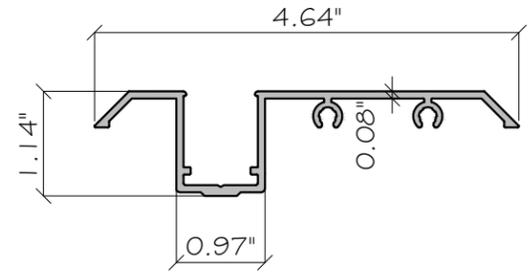
⑪ LR460-09 EXTERIOR GLASS STOP  
ALUM. 6063-T6



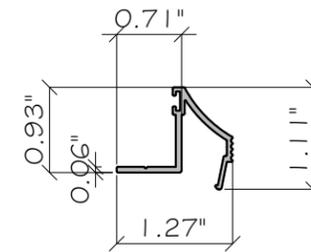
⑮ LR6104 DOUBLE DOOR ASTRAGAL  
ALUM. 6063-T6



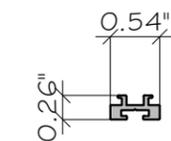
③ LR480-03 FRAME JAMB PROFILE  
ALUM. 6063-T6



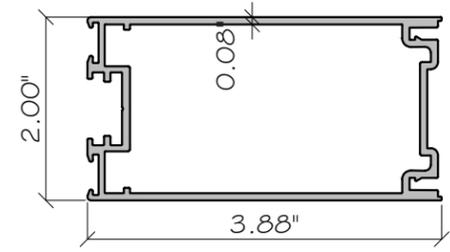
⑦ LR480-07 ADA THRESHOLD  
ALUM. 6063-T6



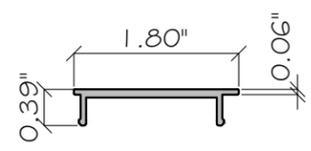
⑫ LR460-10 INTERIOR GLASS STOP  
ALUM. 6063-T6



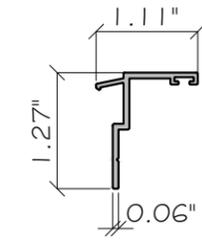
⑯ LR6110  
ALUM. 6063-T6



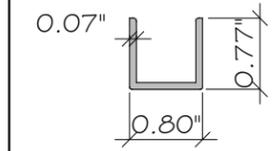
④ LR480-04 HINGE/ LOCK STILE PROFILE  
ALUM. 6063-T6



⑨ LR480-09 SNAP COVER  
ALUM. 6063-T6

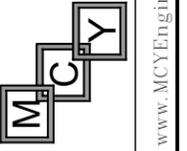
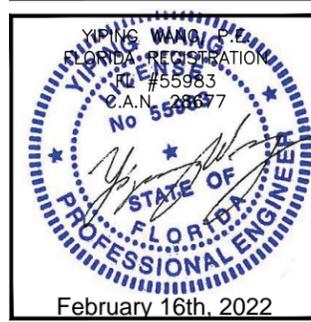


⑬ LR460-17 INTERIOR GLASS STOP  
ALUM. 6063-T6



⑧ B5120247 BOTTOM  
RAIL GUIDE  
PVC

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PART

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# BILL OF MATERIALS

ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	LR480-01	DOOR-SIDELITE FRAME HEAD TRANSOM MULLION	ALUMINUM 6063-T6	LINEA ROSSA
2	LR480-02	LR480-02 DOOR SIDELITE FRAME SILL TRANSOM MULLION	ALUMINUM 6063-T6	LINEA ROSSA
3	LR480-03	LR480-03 FRAME JAMB PROFILE	ALUMINUM 6063-T6	LINEA ROSSA
4	LR480-04	LR480-04 HINGE/ LOCK STILE PROFILE	ALUMINUM 6063-T6	LINEA ROSSA
5	LR460-05	LR480-05 HINGE/ LOCK STILE PROFILE	ALUMINUM 6063-T6	LINEA ROSSA
6	LR460-06	LR480-06 TOP BOTTOM RAIL PROFILE	ALUMINUM 6063-T6	LINEA ROSSA
7	LR460-07	LR480-07 ADA THRESHOLD	ALUMINUM 6063-T6	LINEA ROSSA
8	B5120247	BOTTOM RAIL GUIDE	PVC	LINEA ROSSA
9	LR480-09	LR480-09 SNAP COVER	ALUMINUM 6063-T6	LINEA ROSSA
10	LR480-10	LR480-10 TOP/ BOTTOM RAIL PROFILE	ALUMINUM 6063-T6	LINEA ROSSA
11	LR460-09	LR460-09 EXTERIOR GLASS STOP	ALUMINUM 6063-T6	LINEA ROSSA
12	LR460-10	LR460-10 INTERIOR GLASS STOP	ALUMINUM 6063-T6	LINEA ROSSA
13	LR460-17	LR460-17 INTERIOR GLASS STOP	ALUMINUM 6063-T6	LINEA ROSSA
14	LR460-18	LR460-18 EXTERIOR GLASS STOP	ALUMINUM 6063-T6	LINEA ROSSA
15	LR6104	LR6104 DOUBLE DOOR ASTRAGAL	ALUMINUM 6063-T6	LINEA ROSSA
16	LR6110	LR6110	ALUMINUM 6063-T6	LINEA ROSSA
17		GASKET FOR DOUBLE DOOR ASTRAGAL	EPDM 60±5 SHORE A	LINEA ROSSA
18		GASKET FOR JAMB/ RAIL PROFILE	EPDM 60±5 SHORE A	LINEA ROSSA
19		GASKET FOR JAMB PROFILE	EPDM 60±5 SHORE A	LINEA ROSSA
20	B4510090	INTERIOR GLAZING GASKET	EPDM 60±5 SHORE A	LINEA ROSSA
21	B4510092	EXTERIOR GLAZING FRAME GASKET	EPDM 60±5 SHORE A	LINEA ROSSA
22		FIN-SEAL PILE W/STRIPPING	EPDM 60±5 SHORE A	LINEA ROSSA
23		#8X1/2" PAN HEAD SCREW @ 12" MAX. O.C.	STAINLESS STEEL	VARIES
24		#12 X 1-1/2" PAN HEAD SCREW FOR FRAME ASSEMBLY	STAINLESS STEEL	VARIES
25		WEATHER SEALANT DOW CORNING 791	SILICONE	DOW
26		STRUCTURAL SEALANT DOW CORNING 983/ 995	SILICONE	DOW
27		SETTING BLOCK	EPDM 80±5 SHORE A	-
28	B6100010	KATLANIR KAPIUST MENTESE	ALUMINUM	-
29	B6100011	KATLANIR KAPIALT MENTESE	ALUMINUM	-
30	B6100003	KATLANIR KAPI MENTESE	ALUMINUM	-
31	B6520014	KATLANIR KAPI KOL	ALUMINUM	-
32	B6520015	KATLANIR KAPI KOL	ALUMINUM	-
33	B6520018	KOL PIMI	ZAMAK	-
34	B2810039	POLYAMID TU	POLYAMID	-
35	B6520013	KILIT MEKANIZMASI PIM	PVC	-



SERIES LR-480 ALUMINUM BI-FOLD DOOR-LMI  
 LINEA ROSSA LLC  
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 TEL. 786 431 5554 info@linearossadesign.com

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 MIRAMAR, FL 33027 P. 305.271.0117  
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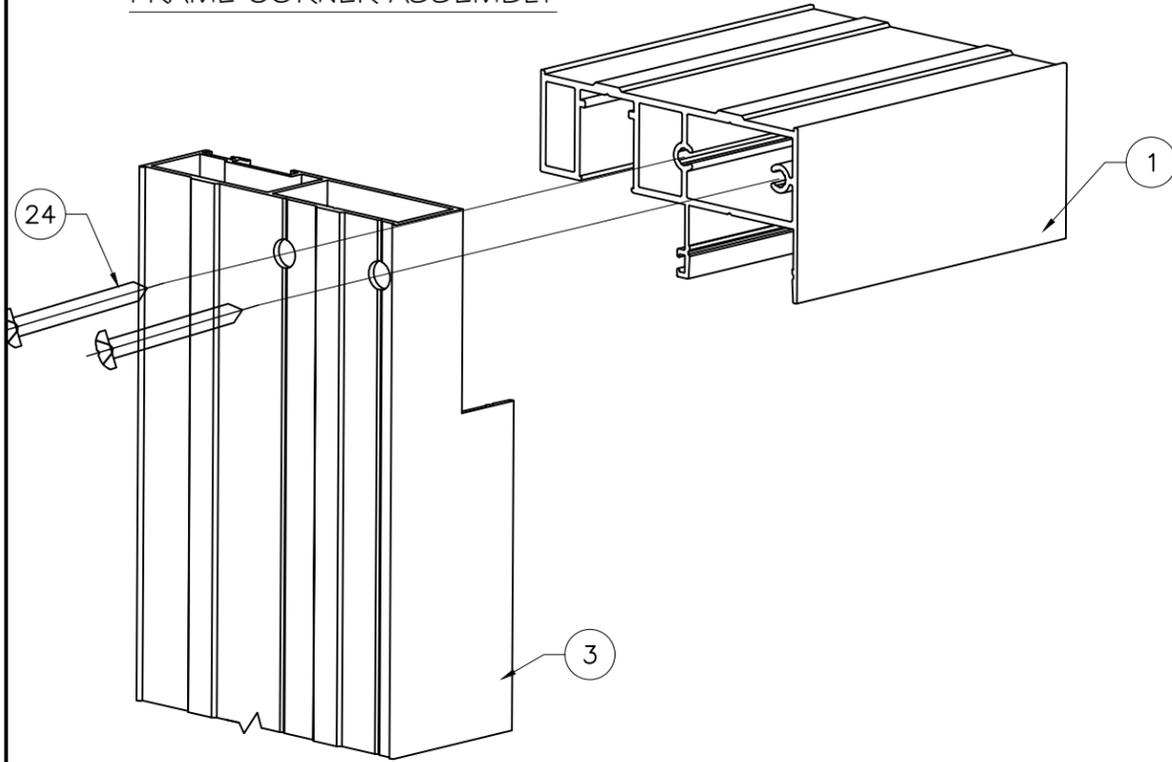
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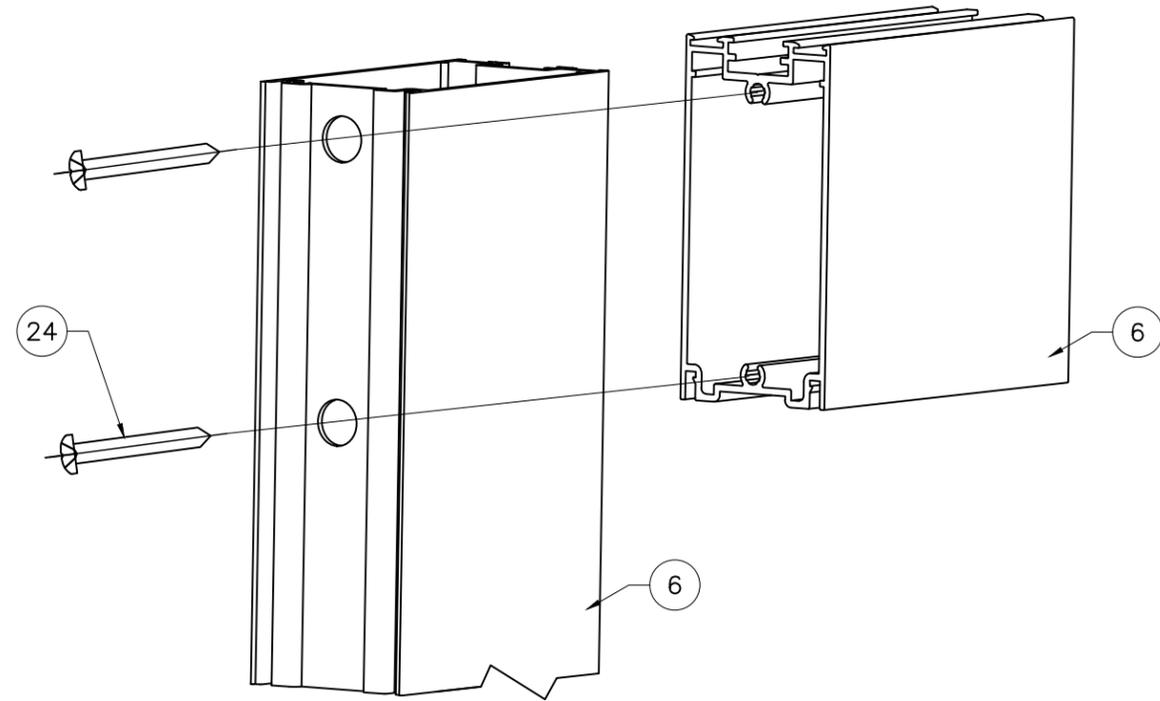


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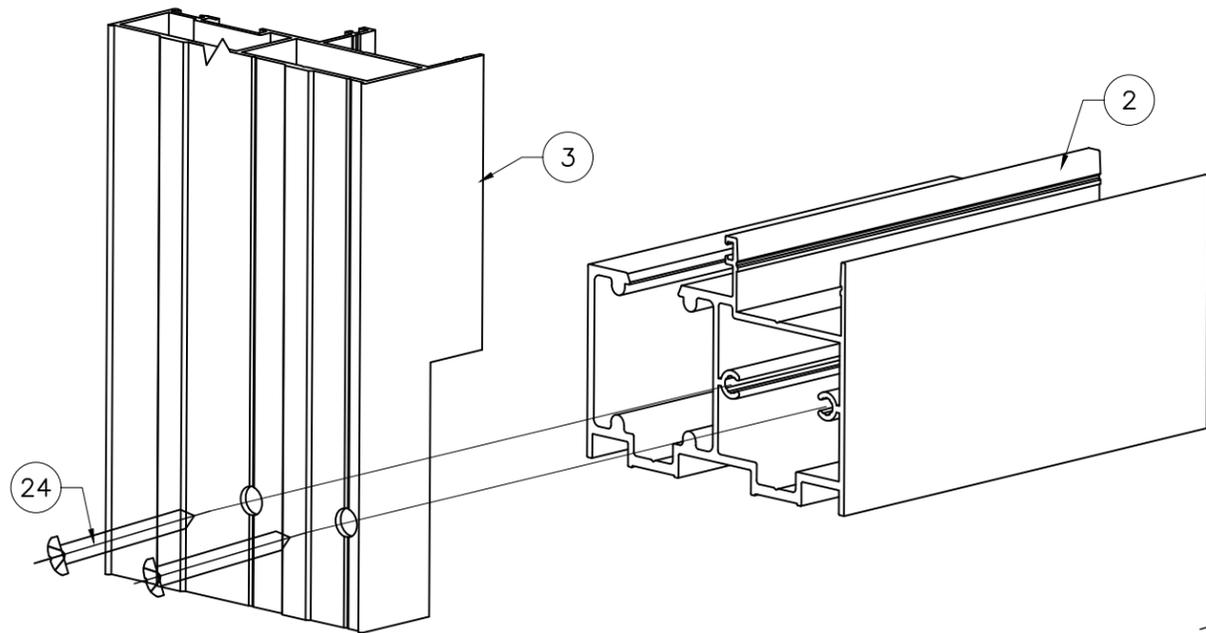
FRAME CORNER ASSEMBLY



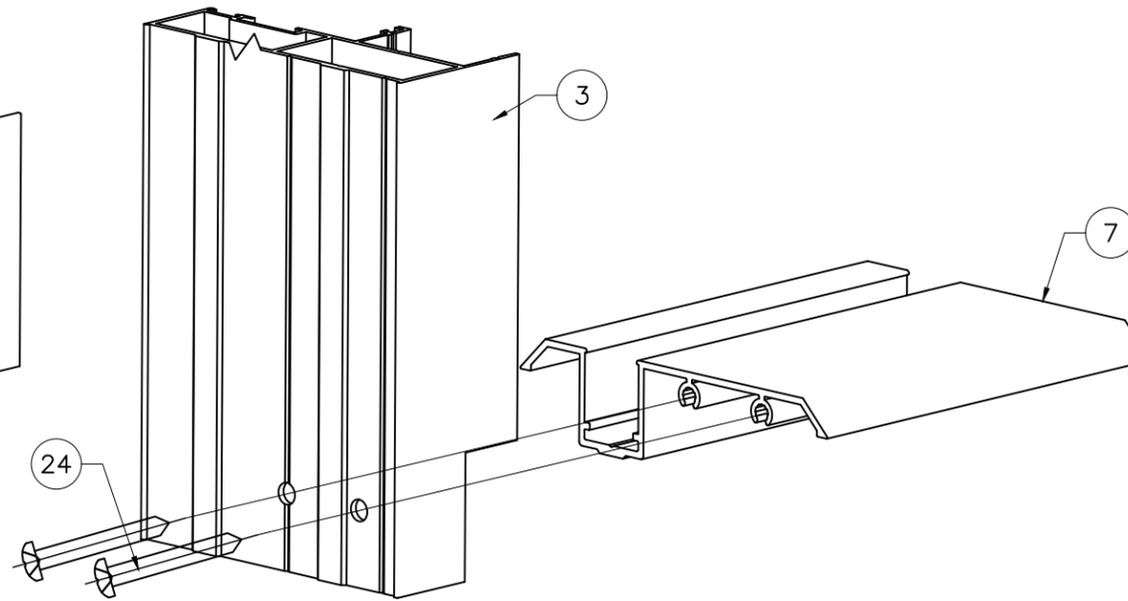
RAIL CORNER ASSEMBLY



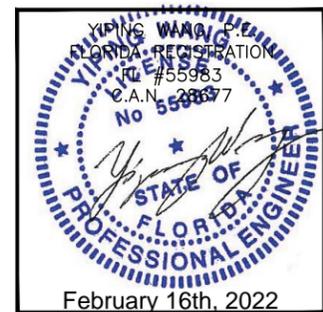
FRAME CORNER ASSEMBLY



FRAME CORNER ASSEMBLY

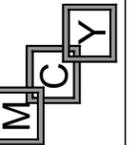


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ASSEMBLY

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