



Eastern
Engineering Group

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6100 W Suburban Dr Eastern Engineering Group

Job. No: 25-0997

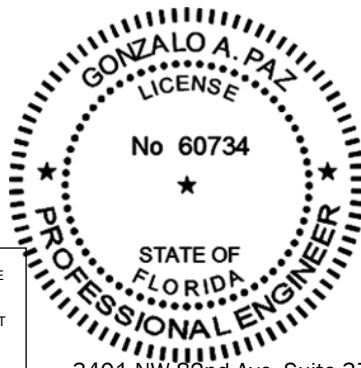
WINDOWS & DOORS SHOP DRAWINGS

6100 W Suburban Dr, Pinecrest,
FL 33156, EE. UU.

STRUCTURAL CALCULATION

THIS ITEM HAS BEEN DIGITALLY SIGNED AND
SEALED BY **GONZALO A. PAZ, PE** ON THE DATE
ADJACENT TO THE SEAL.

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CONSIDERED SIGNED AND SEALED AND THE
SIGNATURE MUST BE VERIFIED ON ANY
ELECTRONIC COPIES.



Prepared By:
☐ Gonzalo Paz , PE
Lic. No. 60734
CAN # 26655

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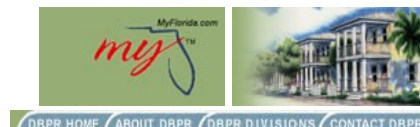


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PRODUCT APPROVAL



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Product Approval
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 Application Detail

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FL #	FL22267-R13	
Application Type	Revision	
Code Version	2023	
Application Status	Approved	
Comments		
Archived	☐	
Product Manufacturer	E.S. Windows, Inc.	
Address/Phone/Email	10653 NE Quaybridge Ct. Miami, FL 33138 (305) 638-5151 ssabagh@energiasolarsa.com	
Authorized Signature	Yiping Wang mcyengineering@outlook.com	
Technical Representative	Samir Sabagh	
Address/Phone/Email	3550 NW 49th St. Miami, FL 33142 (305) 638-5151 ssabagh@energiasolarsa.com	
Quality Assurance Representative		
Address/Phone/Email		
Category	Exterior Doors	
Subcategory	Sliding Exterior Door Assemblies	
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received	
Florida Engineer or Architect Name who developed the Evaluation Report	Yiping Wang	
Florida License	PE-55983	
Quality Assurance Entity	Keystone Certifications, Inc.	
Quality Assurance Contract Expiration Date	07/16/2035	
Validated By	Xiaojun Gu ☒ Validation Checklist - Hardcopy Received	
Certificate of Independence	FL22267_R13_COI_Certificate of Independence FBC 2023.pdf	
Referenced Standard and Year (of Standard)	Standard AAMA 1304 ASTM E1886 ASTM E1996 ASTM E283 ASTM E331 ASTM F842 TAS 201 TAS 202 TAS 203	Year 2002 2019 2020 2012 2016 2017 1994 1994 1994
Equivalence of Product Standards Certified By		
Sections from the Code		

Product Approval Method	Method 1 Option D
Date Submitted	08/29/2024
Date Validated	10/28/2024
Date Pending FBC Approval	10/31/2024
Date Approved	12/10/2024

Summary of Products

FL #	Model, Number or Name	Description
22267.1	ES-SGD2020 SLIDING GLASS DOOR-LMI & SMI	sliding glass door-large and small missile impact.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +150/-150 Other: for sliding glass door sizes vs. design pressure refer to installation instructions		Installation Instructions FL22267_R13_II_ES-SGD2020 SLIDING GLASS DOOR LMI SMI FL22267 AD16-29 REV 10.08.2024-SS.pdf Verified By: Yiping Wang PE #55983 Created by Independent Third Party: Yes Evaluation Reports FL22267_R13_AE_SGD2020-EVR FBC 2023_ss.pdf Created by Independent Third Party: Yes

[Back](#) [Next](#)

Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:



ES WINDOWS, INC.
SERIES SGD 2020 SLIDING GLASS DOOR
LARGE AND SMALL MISSILE IMPACT

DOORS RATED FOR LARGE AND SMALL MISSILE IMPACT.
IMPACT SHUTTERS ARE NOT REQUIRED.

LAMINATED GLASS AND INSULATED-LAMINATED GLASS LARGE AND SMALL MISSILE IMPACT.

SERIES SGD 2020 SLIDING GLASS DOOR

APPLICABLE EGRESS REQUIREMENTS PER FBC TO BE REVIEWED BY BUILDING OFFICIAL.

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

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 FLORIDA BUILDING CODE 8TH EDITION (2023) 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.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS

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

STEP 2 SEE ALLOWABLE CONFIGURATIONS ON SHEETS EG THROUGH E12. SEE CHARTS ON SHEET G1 FOR ALLOWABLE DESIGN LOAD BASED ON DESIRED GLASS TYPE. SEE CHARTS ON SHEET K1 FOR INTERLOCK DESIGN LOAD. SEE SHEET K2 FOR SILL RAISER OPTION FOR WATER INFILTRATION.

STEP 3 FOR FREESTANDING JAMB USED AT 2 TRACK OR 3 TRACK, SEE CHARTS ON SHEET J1 AND J2 FOR REINFORCING LEVEL AND CAPACITIES.

STEP 4 FOR ANCHORED JAMB, SEE OPTIONS AND SPACING ON SHEETS J3 AND J4.

STEP 5 USING CHARTS ON SHEET A1 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

STEP 6 THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 5 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
LG. - LONG
STL. - STEEL
ALUM. - ALUMINUM
MULL. - MULLION
HORIZ. - HORIZONTAL
W/ - WITH
W/O - WITHOUT
VERT.- VERTICAL
T.H.- TRANSOM HEIGHT

CL - CENTER LINE
 S.S. - STAINLESS STEEL
 H.S. - HEAT STRENGTHENED
 SSG - STRUCTURAL SILICONE
 GLAZED
 TEMP. - TEMPERED
 O.C. - ON CENTER
 G.B. - GLASS BITE
 SECTION NUMBER

SECTION NUMBER

X

XX

SHEET NUMBER

FL #22267

LIMITATIONS OF USE

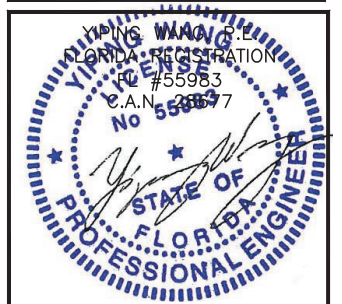
A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

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.



October 23rd, 2024

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301
MIRAMAR, FL. 33027 P:

2.

www.MCYEngineering.com mcy@mcyengineering.com

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

10653 NE Quaybridge Ct

Miami, FL 33138

TEL. (305) 624-7775

Rev. No.	Date	Drawn By	REVISION
E/S	10.05.2024	James	

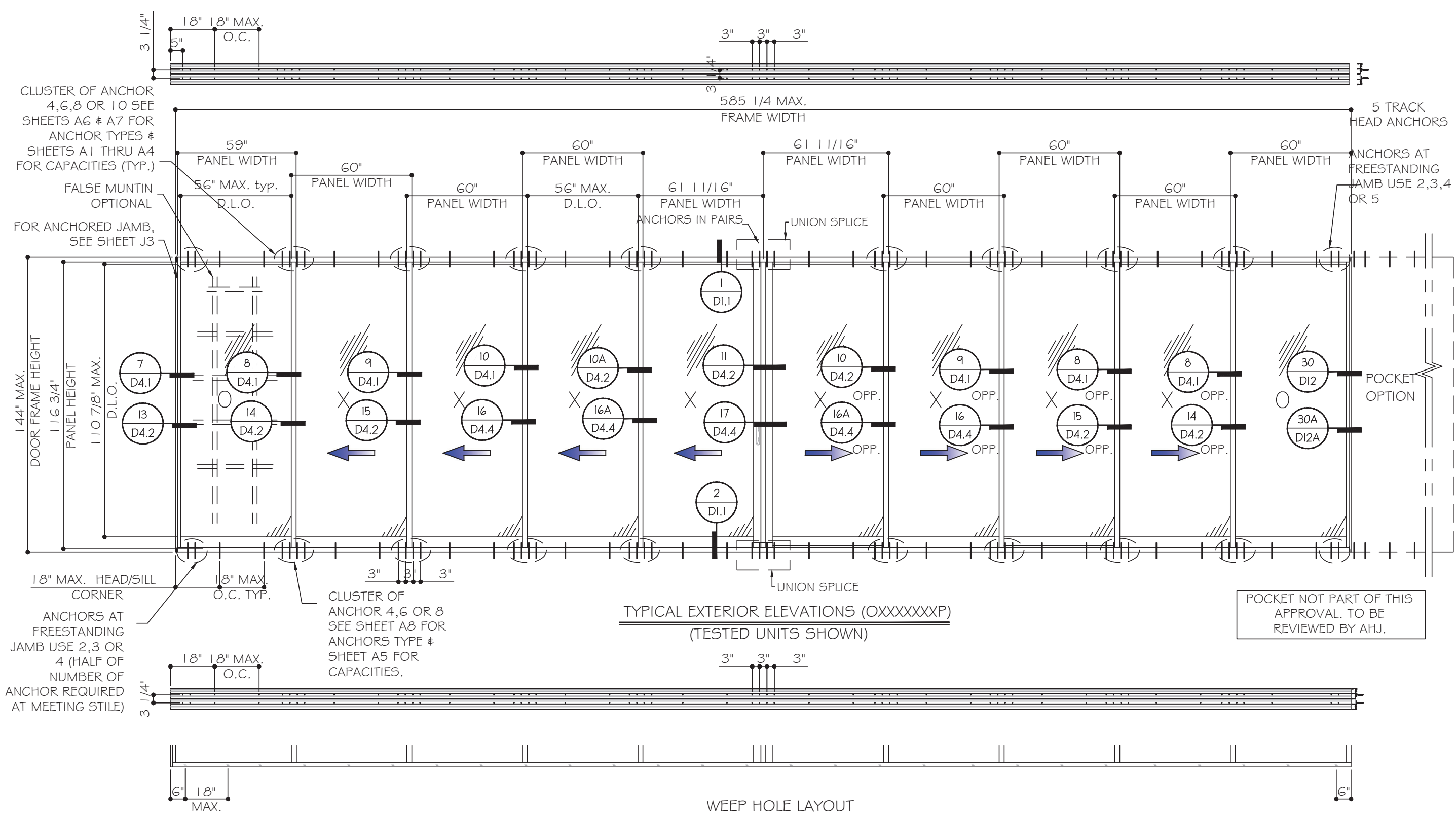
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10.08.2024	AS SHOWN

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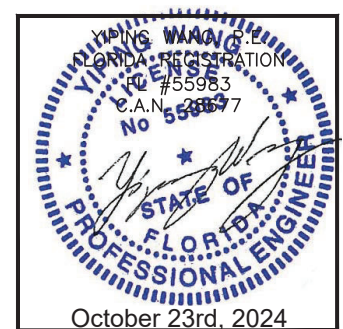
COVER

Sheet No.
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NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
PANEL HEIGHT = FRAME HEIGHT - 2.625"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"

FOR INTERLOCK CAPACITY
SEE CHARTS
SHEET K.1



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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

Rev.	Date	Drawn By	Description
1	10.08.2024	James	

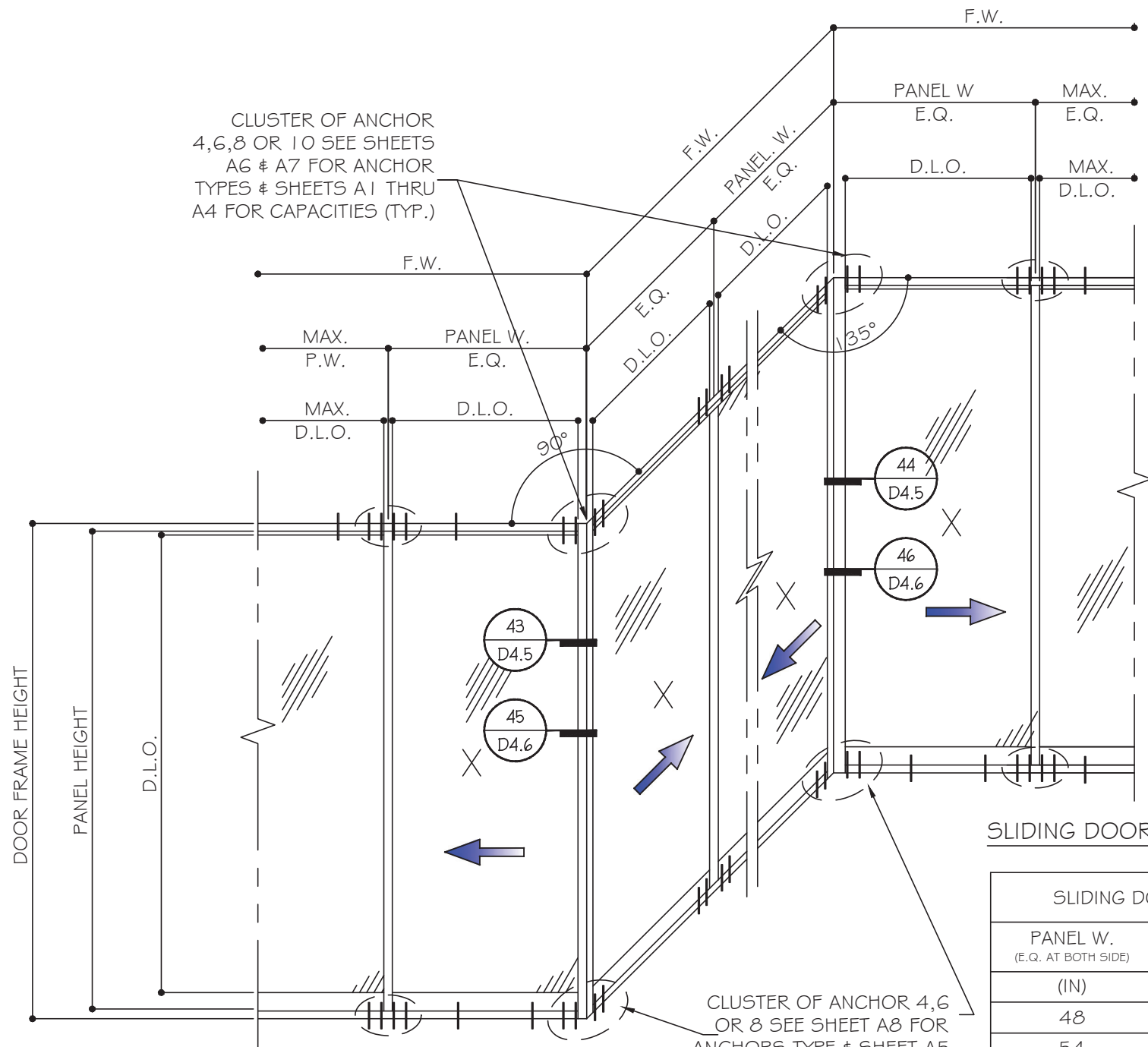
Drawn Date
10.08.2024

Scale

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E4

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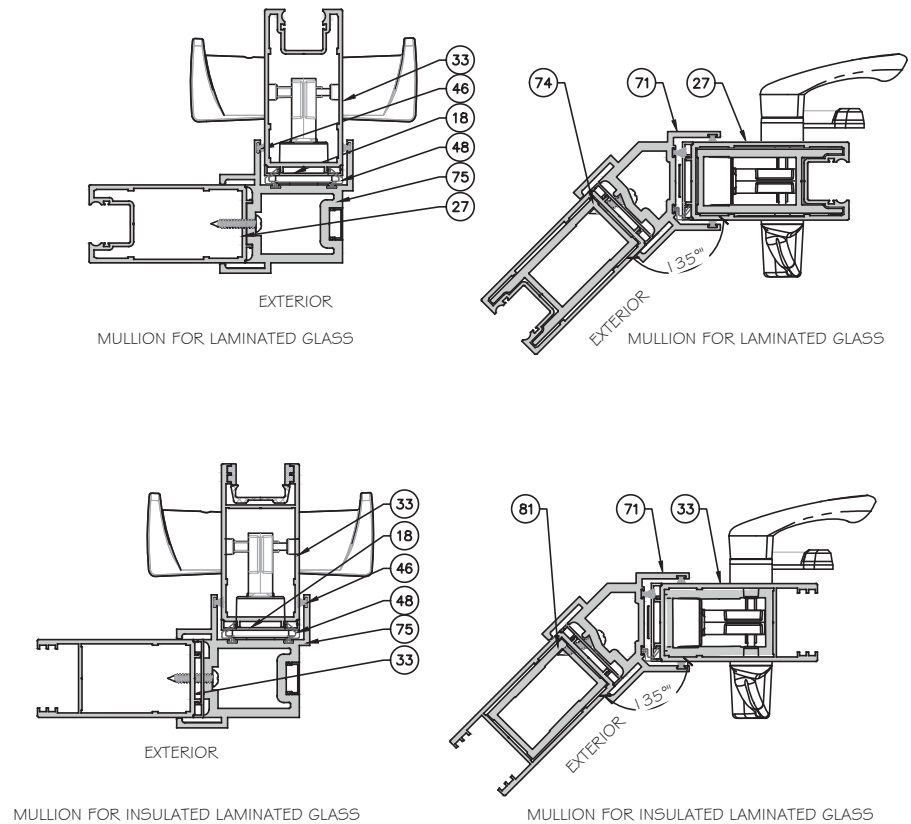
CORNER MULLIONS

NOTE: CAPACITY FOR SGD WITH EQ WIDTH(W) AND EQUAL LOAD AT BOTH SIDES. FOR UNEQUAL CONDITIONS TO BE CHECKED SEPARATELY.

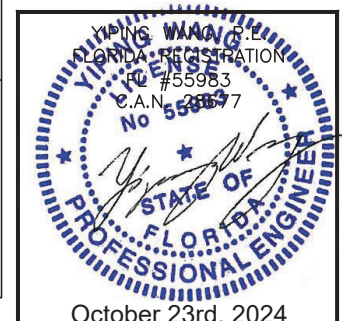
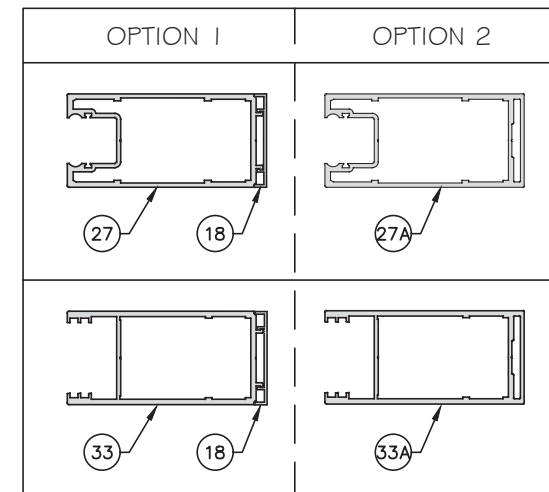
SLIDING DOOR WITH 90° & 135° TURN

SLIDING DOOR WITH CORNER STILES			
PANEL W. (E.Q. AT BOTH SIDE)	F.H.	ALLOW. DESIGN LOAD	
(IN)	(IN)	(+) PSF	(-) PSF
48	120	90	102
54		88.3	100.1
60		79.5	90.1
42	126	90	102
48		85.8	97.3
54		76.3	86.5
42	132	85.3	96.7
48		74.7	84.6
54		66.4	75.2
36	138	87.1	98.7
42		74.7	84.6
48		65.3	74.1
36	144	76.7	86.9
42		65.7	74.5
48		57.5	65.2

CORNER MULLION

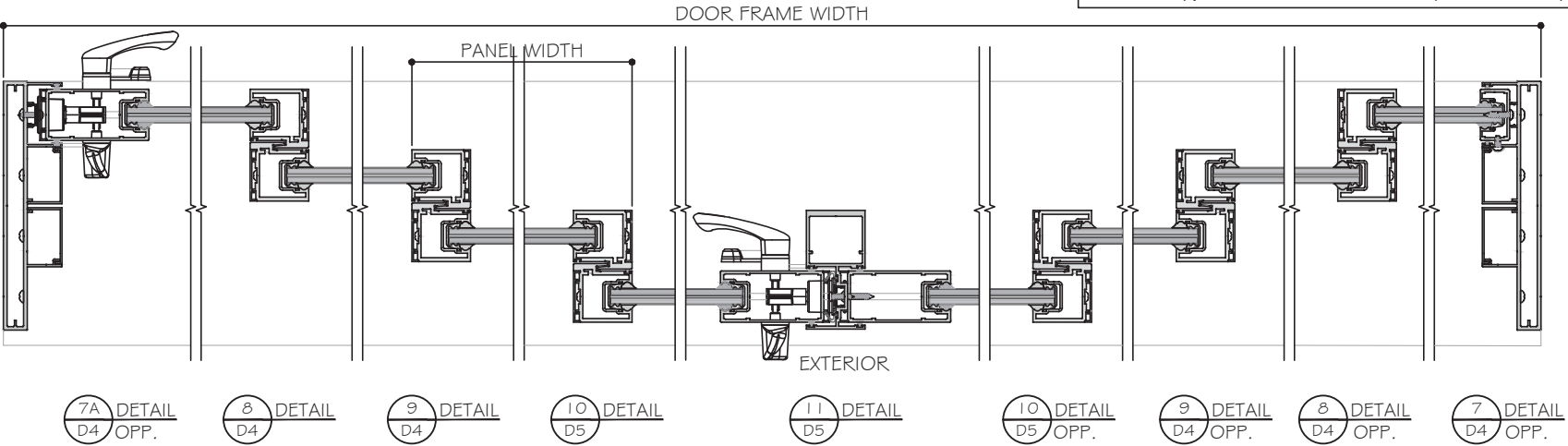
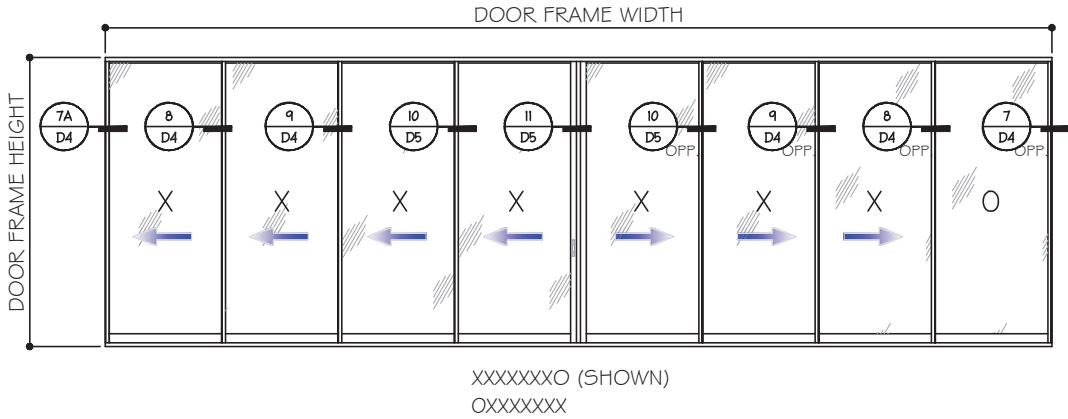


LOCKSTILE OPTIONS



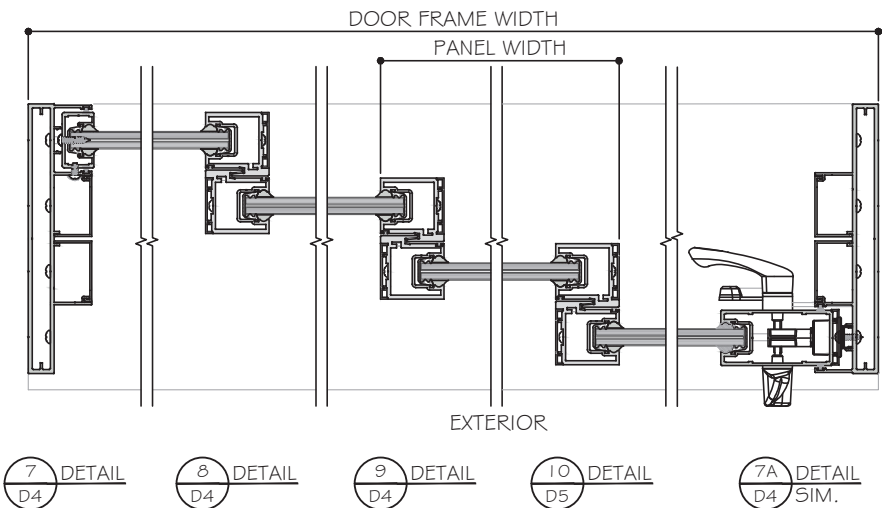
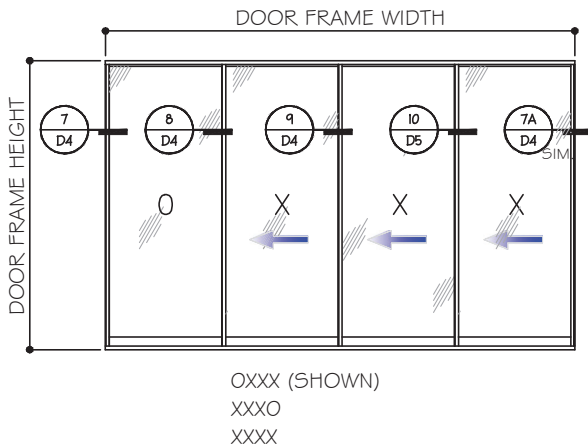
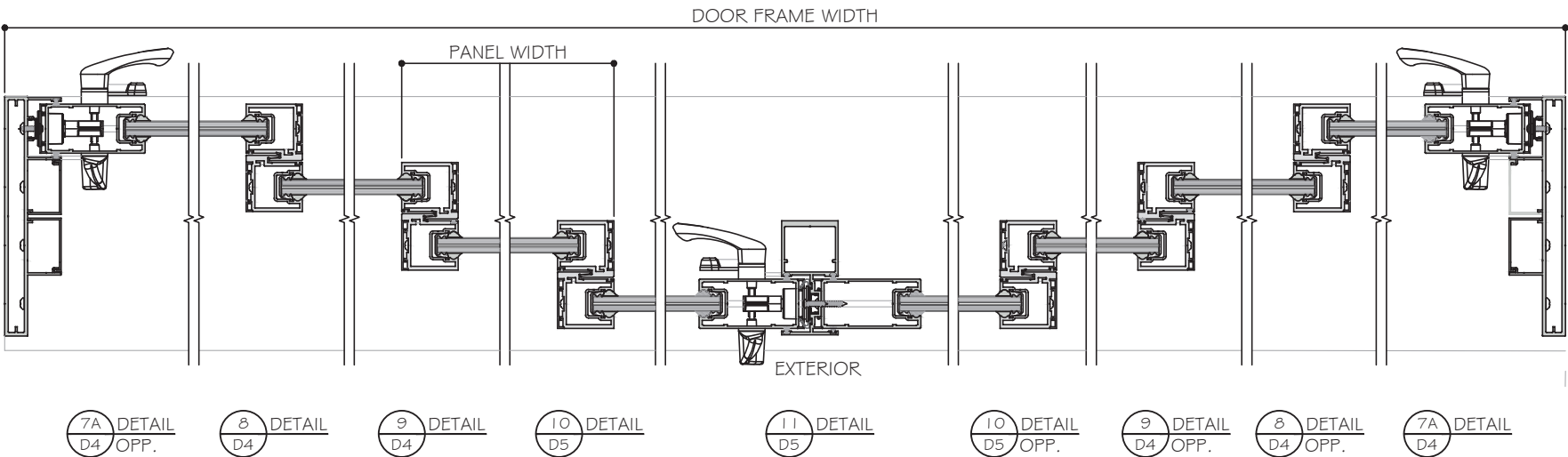
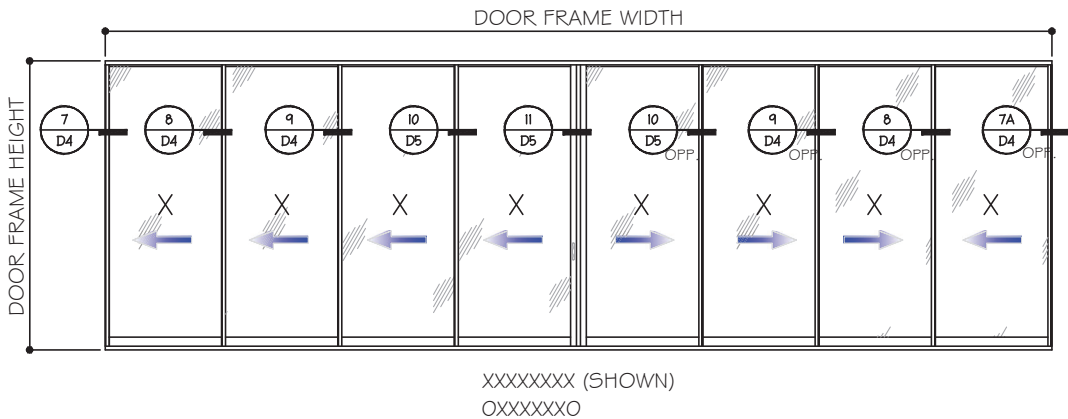
Rev	Date	Drawn By	Description
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APPROVED CONFIGURATION DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



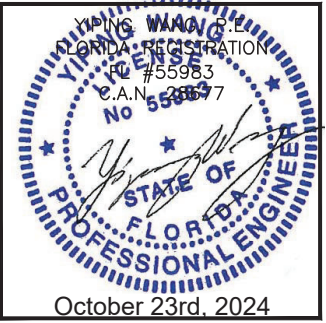
LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).



- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
 3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K1.
 4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.
 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

FOUR (4) TRACKS



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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

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1	10.08.2024	James	

Drawn Date

10.08.2024

Scale

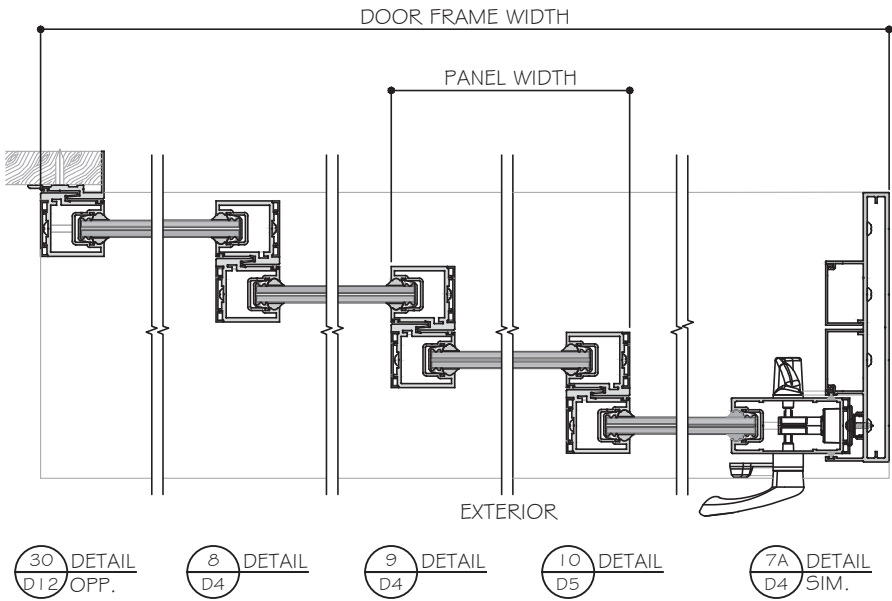
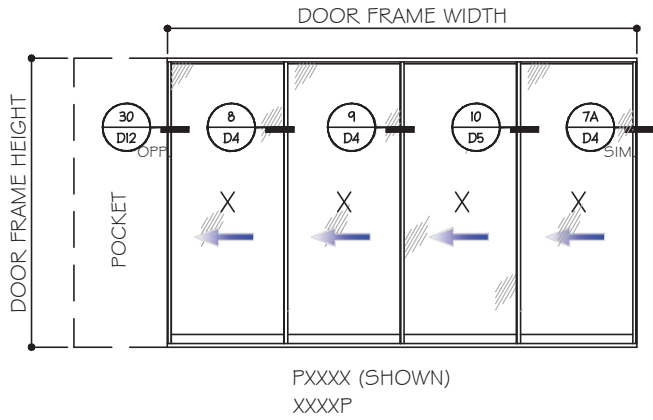
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Sheet No.

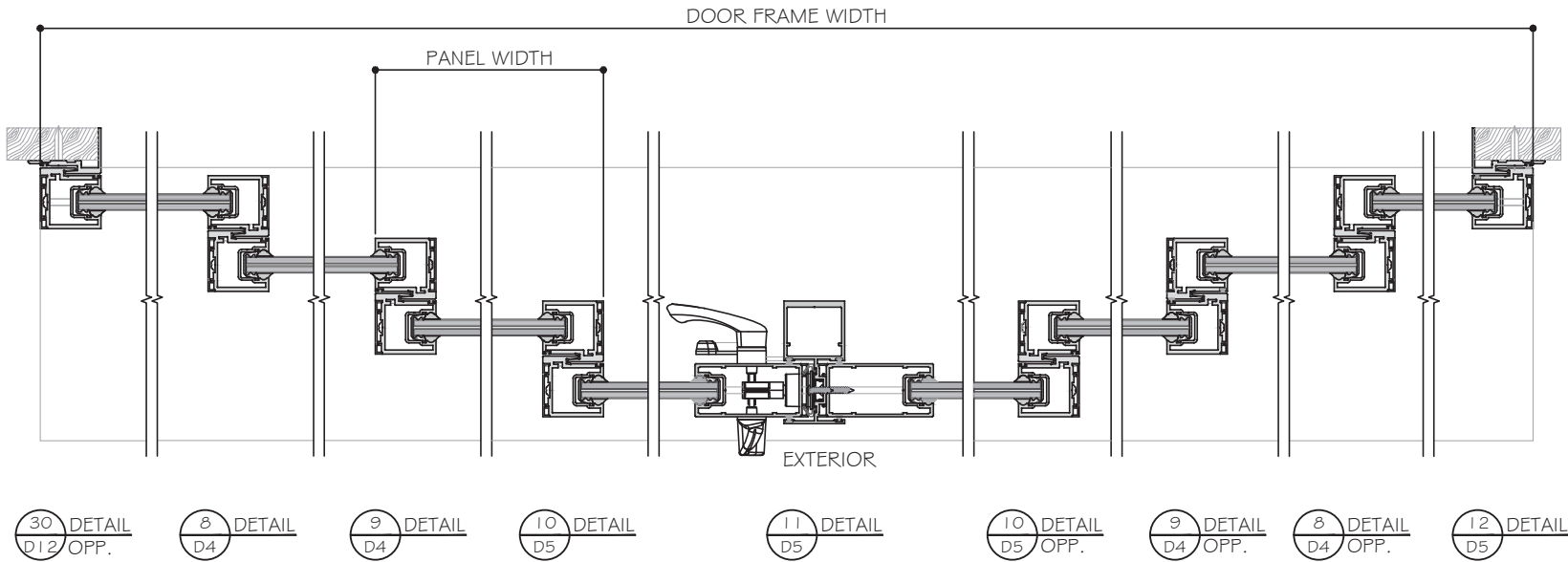
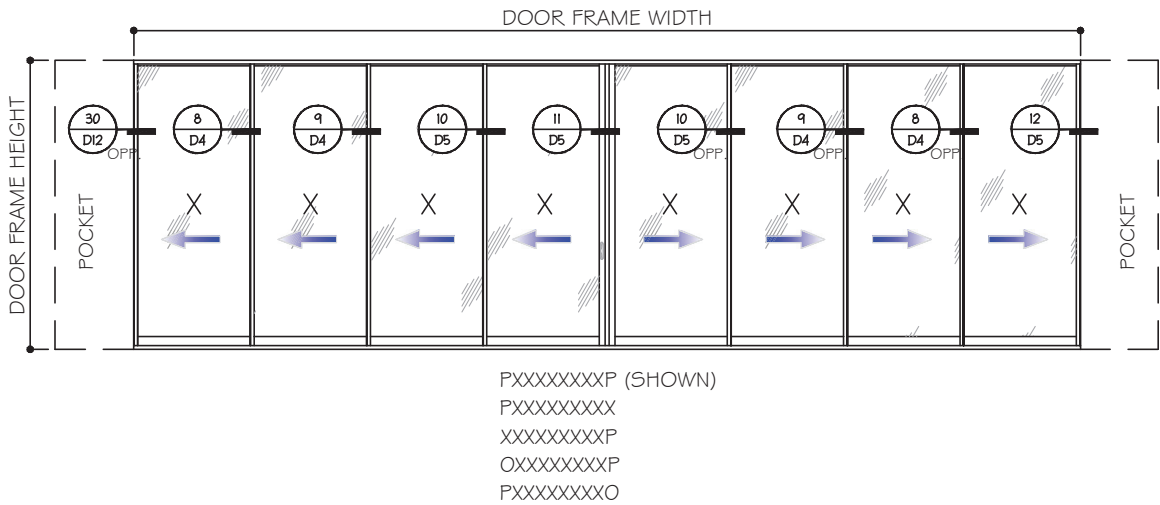
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APPROVED CONFIGURATION POCKETED DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

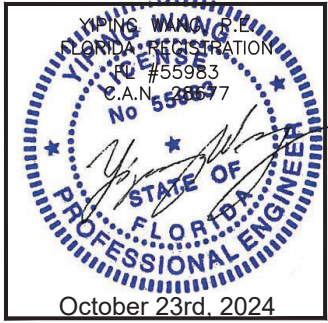
NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
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 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

FOUR (4) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL
AND ARE TO BE REVIEWED BY AHJ.



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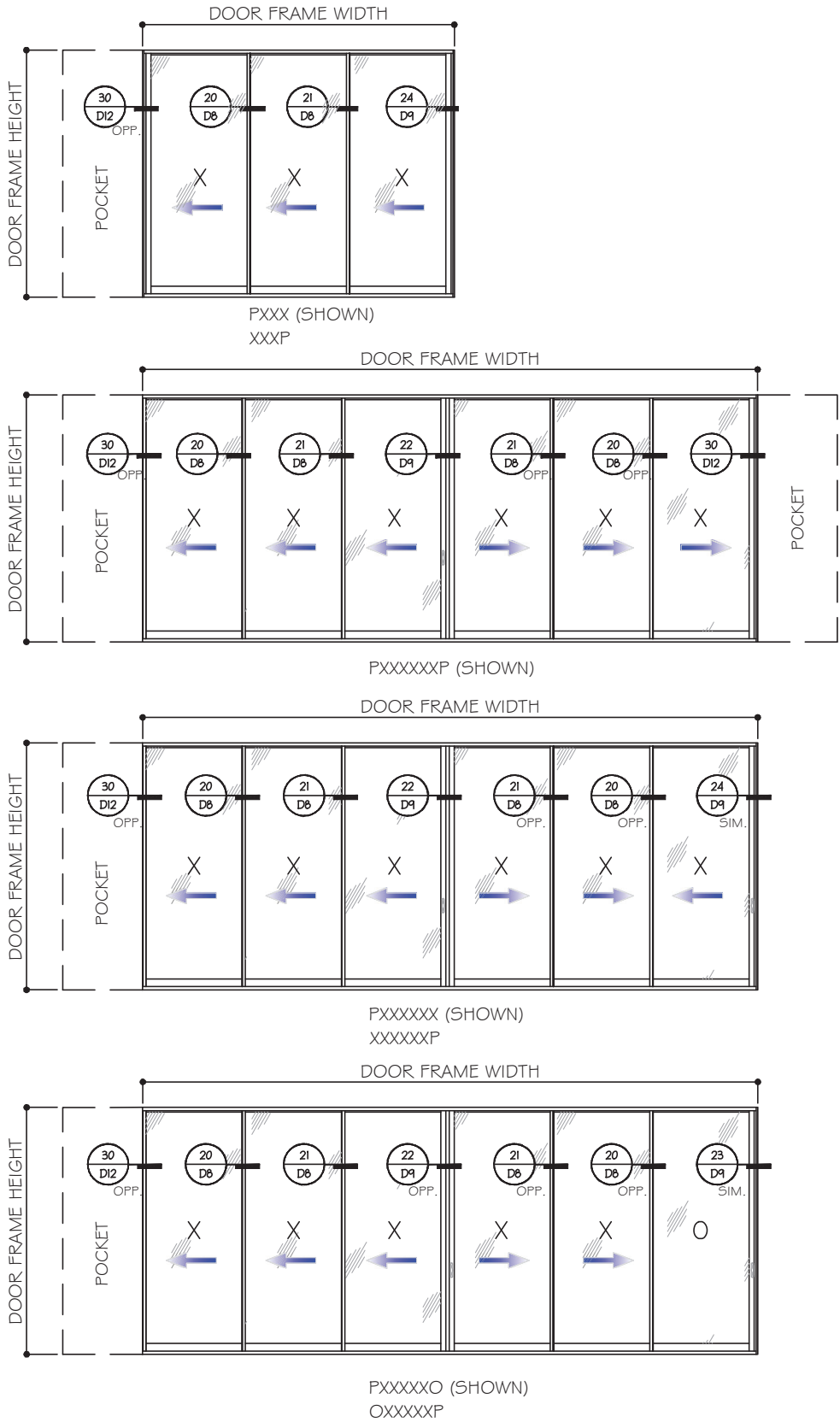
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APPROVED CONFIGURATION POCKETED DOORS

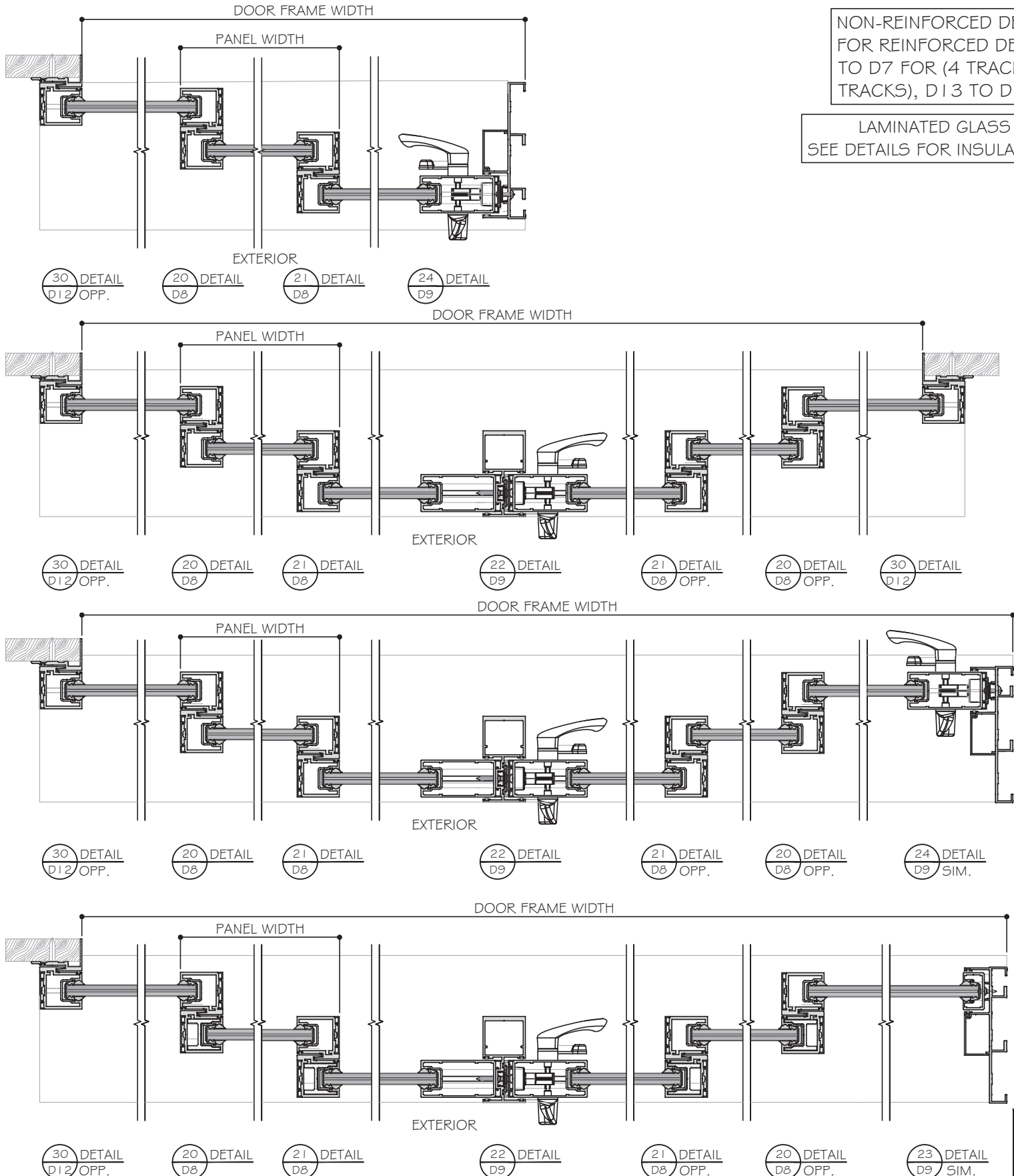
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SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



THREE (3) TRACKS

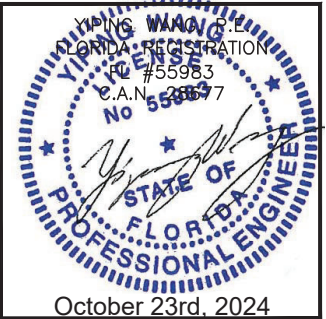
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FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).

LAMINATED GLASS OPTIONS SHOWN.
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Rev.	Date	Drawn By	Description
1	10.08.2024	James	

Drawn Date
10.08.2024

Scale

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AD16-29

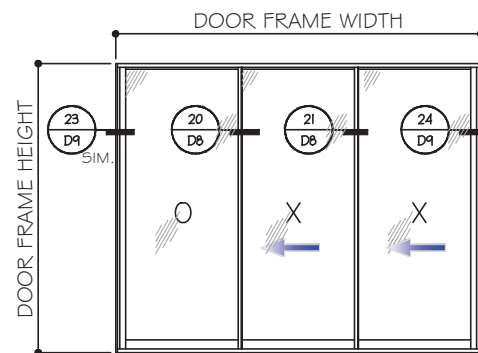
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13 OF 59

E8

APPROVED CONFIGURATION DOORS

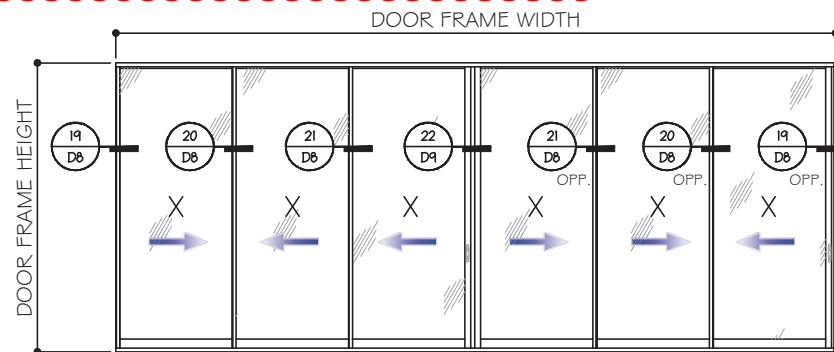
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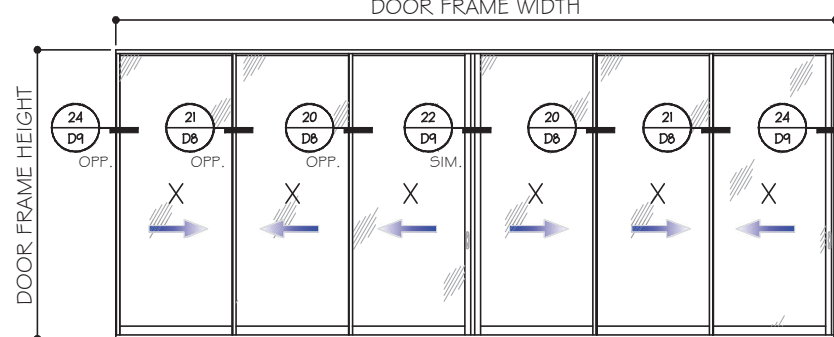


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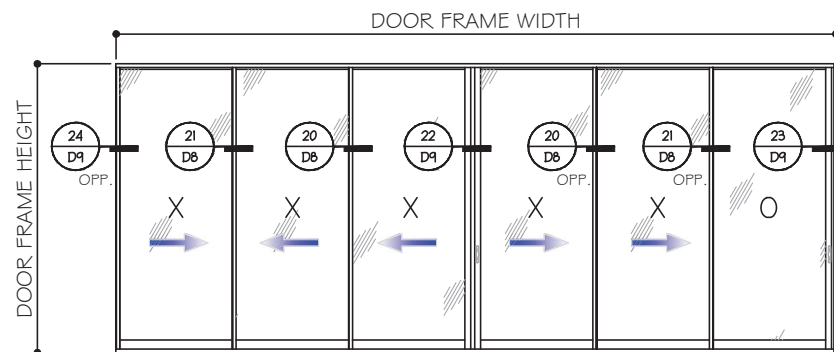
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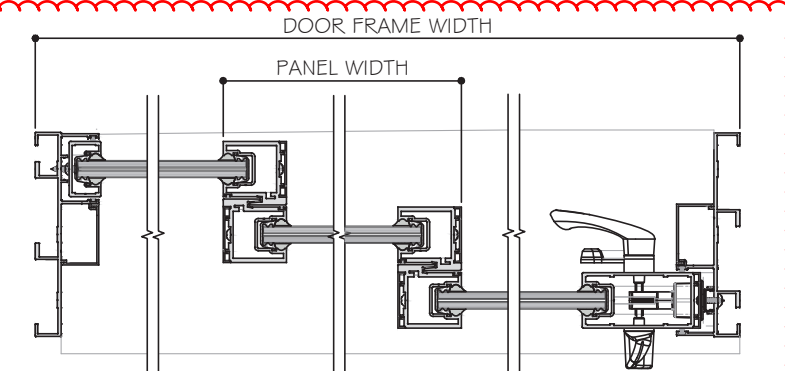
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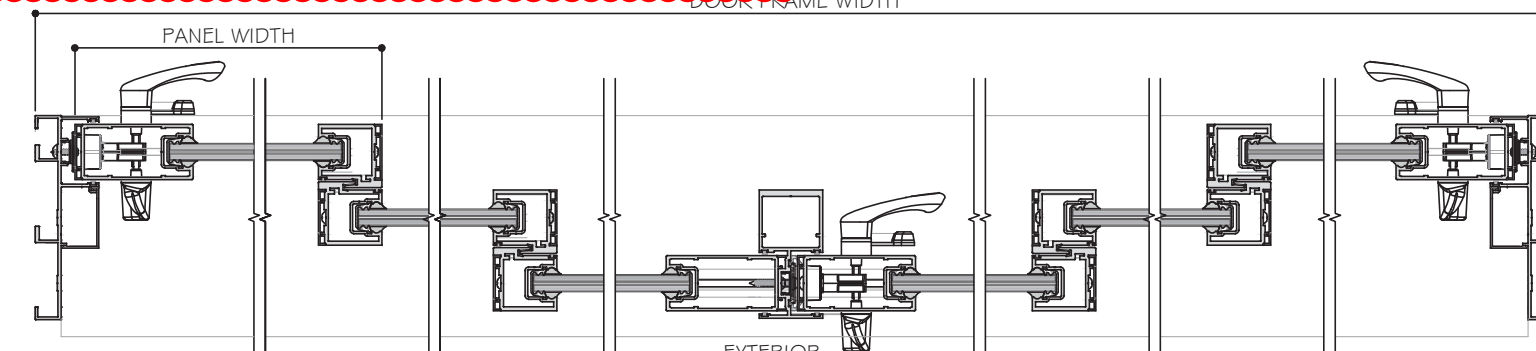
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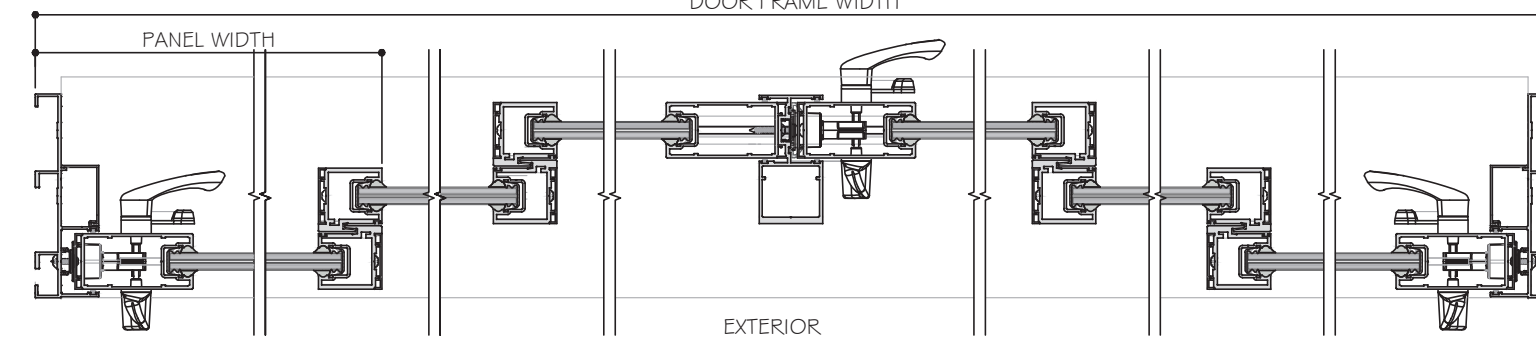
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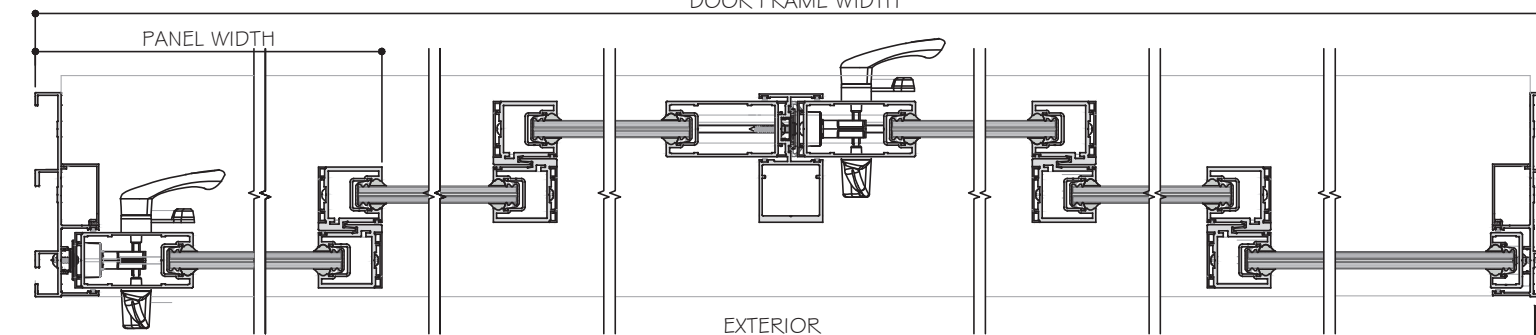
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20 DETAIL D8
21 DETAIL D8
24 DETAIL D9



19 DETAIL D8
20 DETAIL D8
21 DETAIL D8
22 DETAIL D9
21 DETAIL D8 OPP.
20 DETAIL D8 OPP.
19 DETAIL D8 OPP.



24 DETAIL D9 OPP.
21 DETAIL D8 OPP.
20 DETAIL D8 OPP.
22 DETAIL D9 SIM.
20 DETAIL D8
21 DETAIL D8
24 DETAIL D9



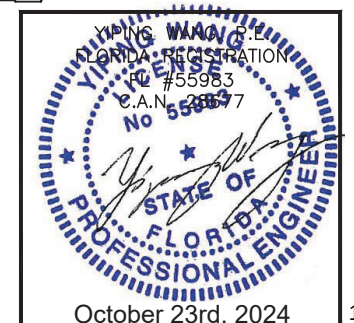
24 DETAIL D9 OPP.
21 DETAIL D8 OPP.
20 DETAIL D8 OPP.
22 DETAIL D9 SIM.
20 DETAIL D8
21 DETAIL D8
23 DETAIL D9

NOTES:

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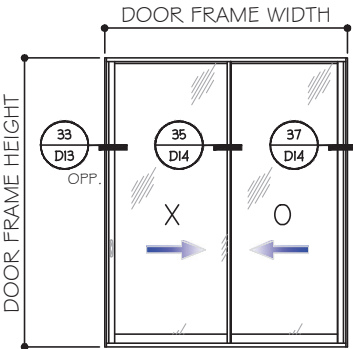
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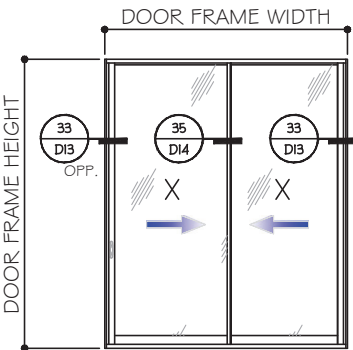
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Sheet No. 14 OF 59

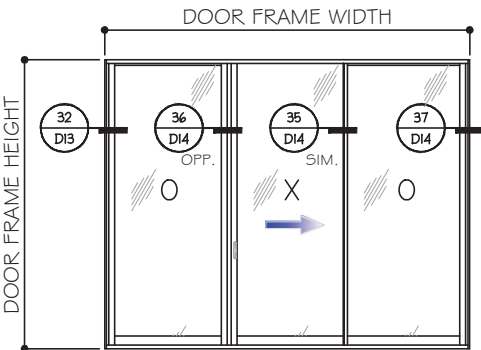
APPROVED CONFIGURATION DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



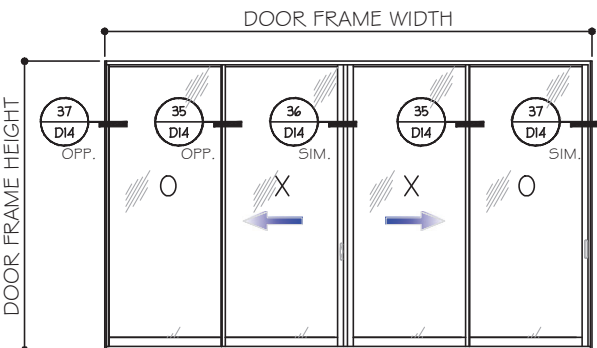
XO (SHOWN)
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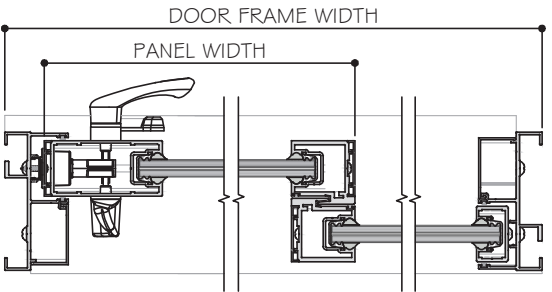
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OXO (SHOWN)
OXO (REVERSE)



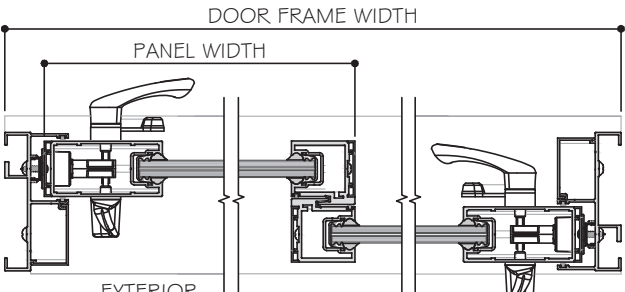
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D13
OPP.

35
D14

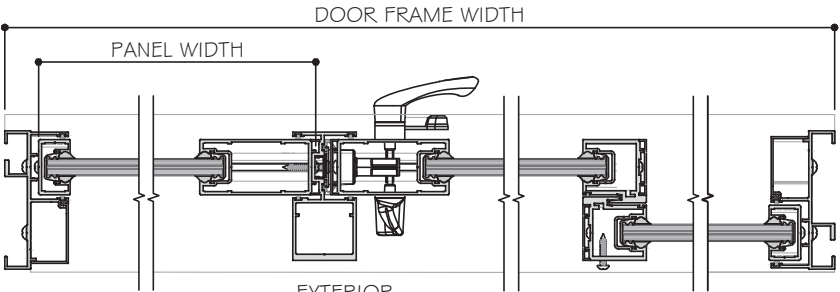
37
D14



33
D13
OPP.

35
D14

33
D13
SIM.

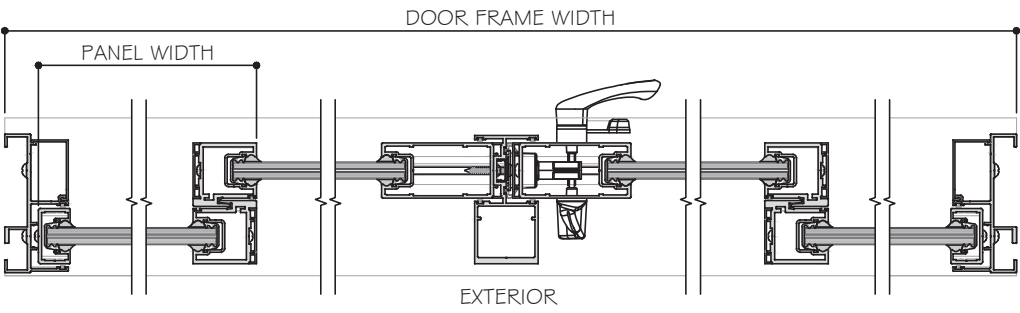


32
D13

36
D14
OPP.

35
D14
SIM.

37
D14



37
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35
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SIM.

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D14

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D14

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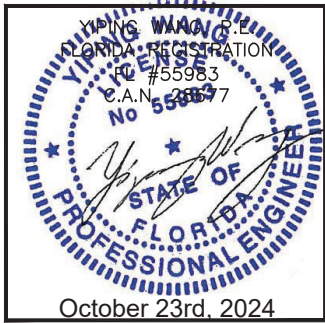
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TRACKS), D13 TO D16 FOR (2 TRACKS).

TWO (2) TRACKS
POCKETS ARE NOT PART OF THIS APPROVAL
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106
107



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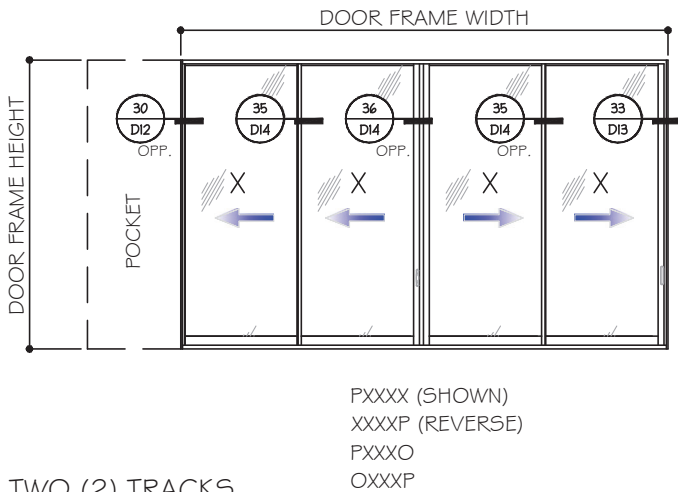
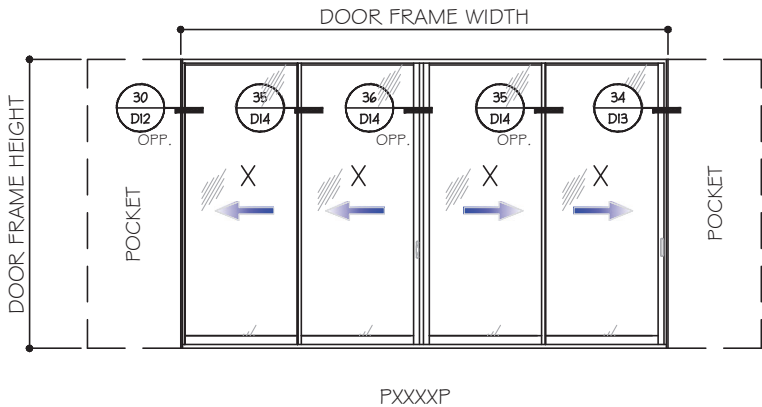
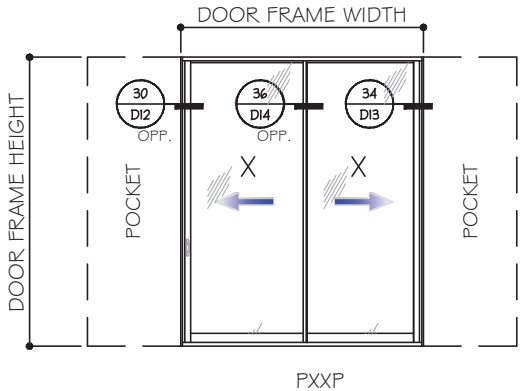
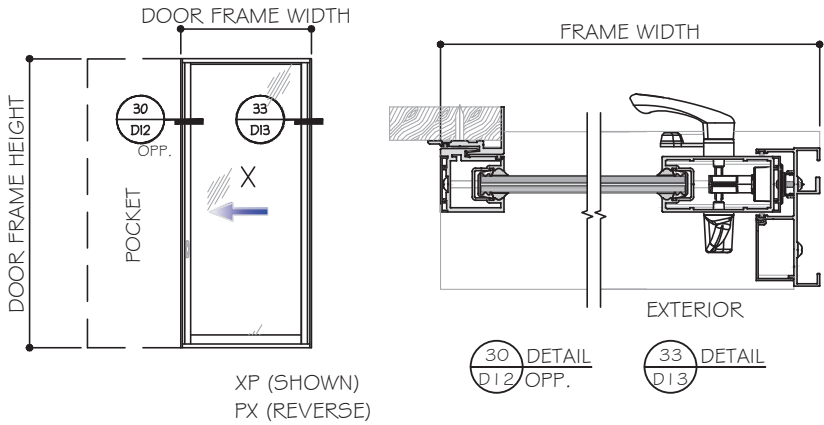
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APPROVED CONFIGURATION POCKETED DOORS

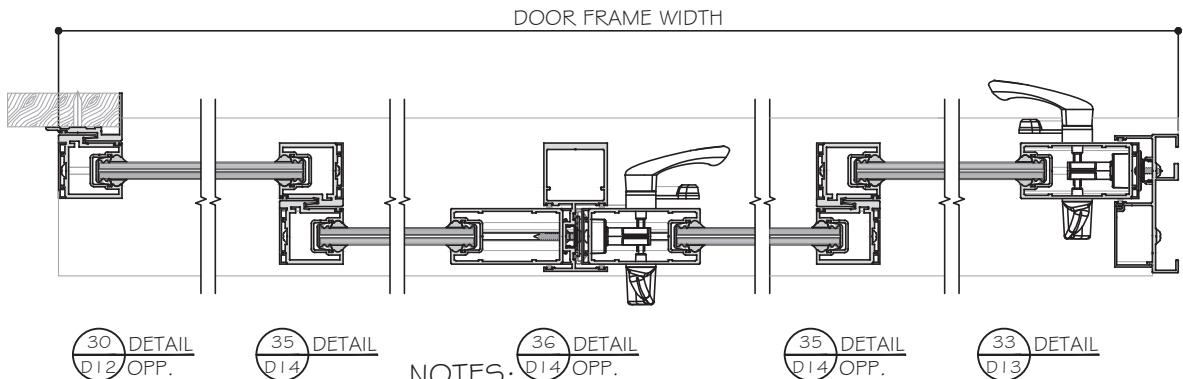
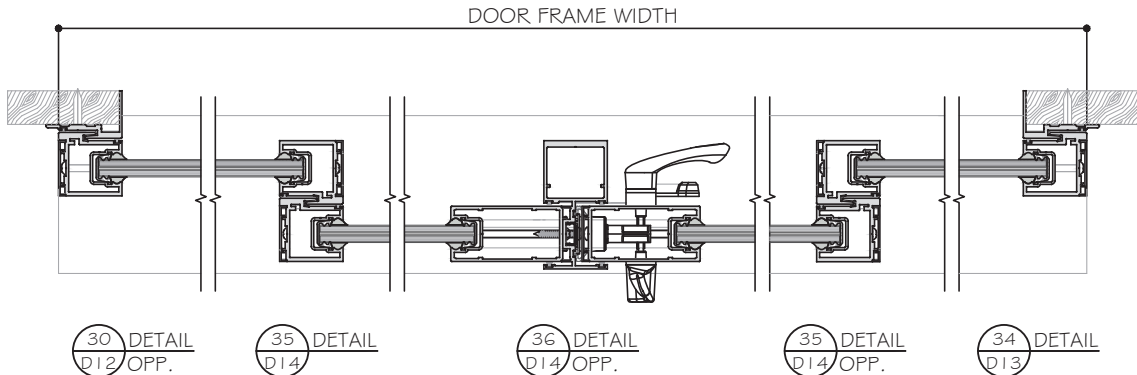
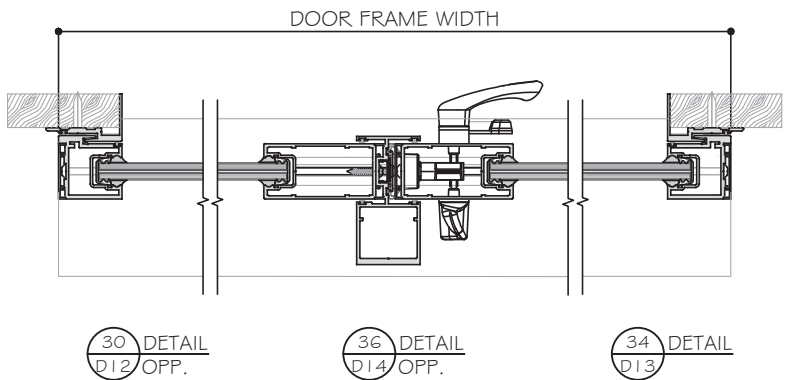
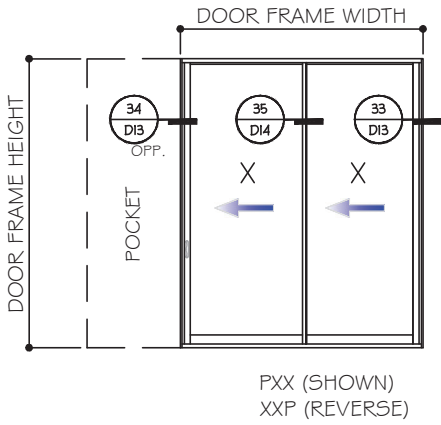
(NON-REINFORCED SHOWN)

SEE SHEET K1 FOR Dp AND REINFORCING OPTIONS



TWO (2) TRACKS

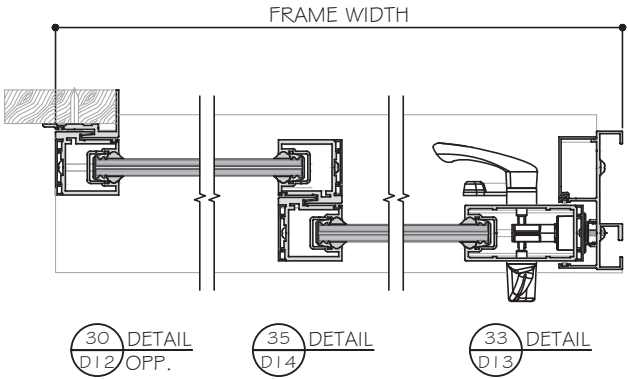
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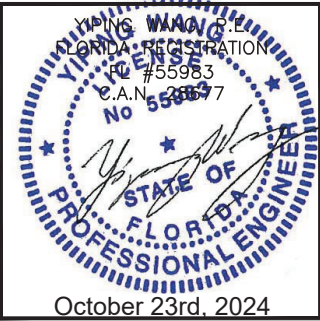
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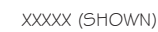
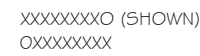
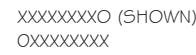
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Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	
2			
3			
4			
5			
6			
7			
8			
9			
10			

Drawn Date: 10.08.2024
Scale:
DRAWING NO. AD16-29
E11
Sheet No. 16 of 59



SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



POCKETS ARE NOT PART OF THIS APPROVAL
AND ARE TO BE REVIEWED BY AHJ.

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY. XXXXX (SHOWN)

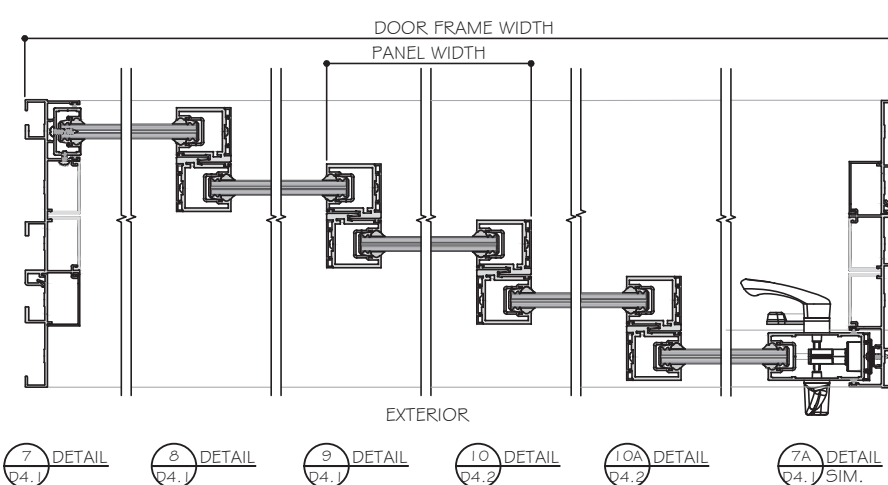
2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.

3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K1.

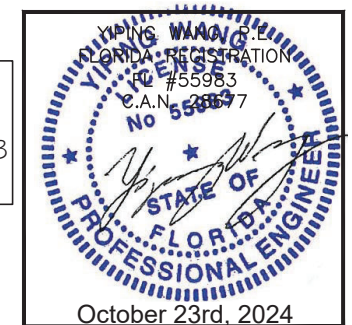
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.

5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.

6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.



NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).



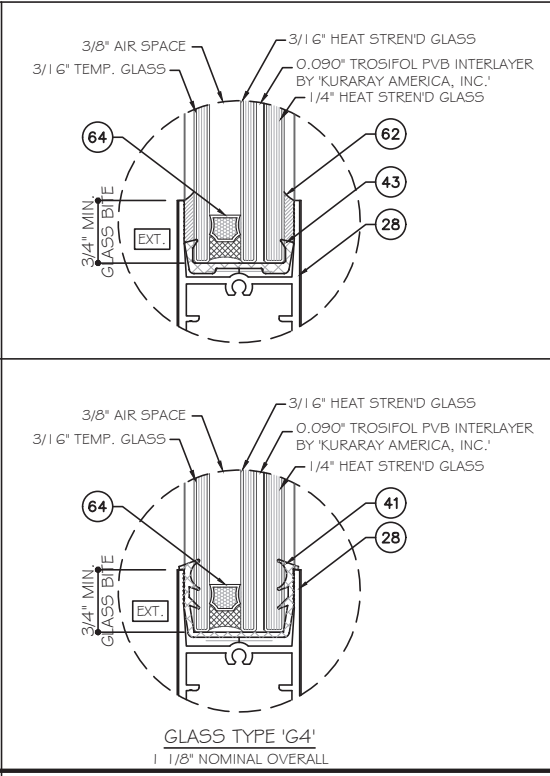
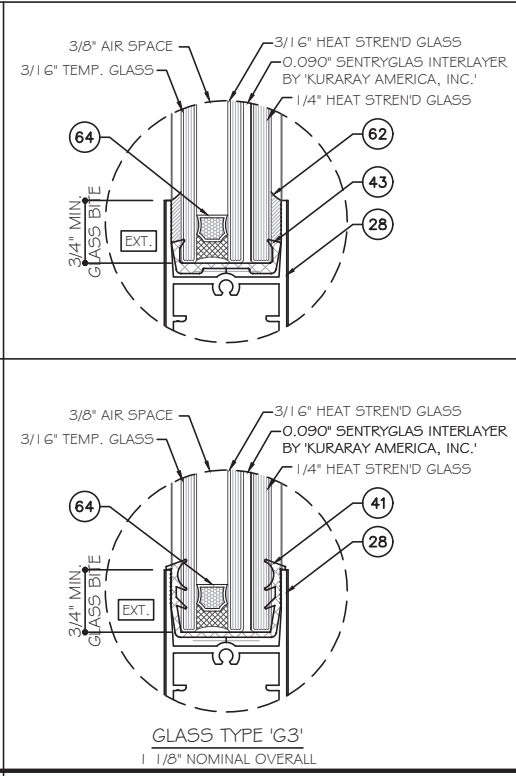
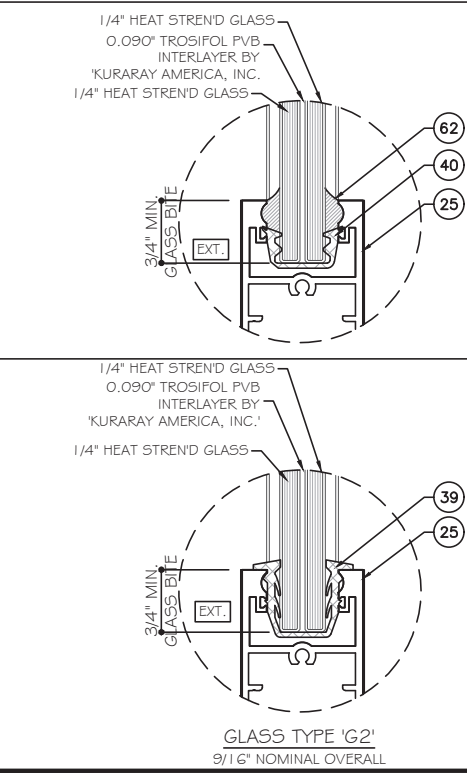
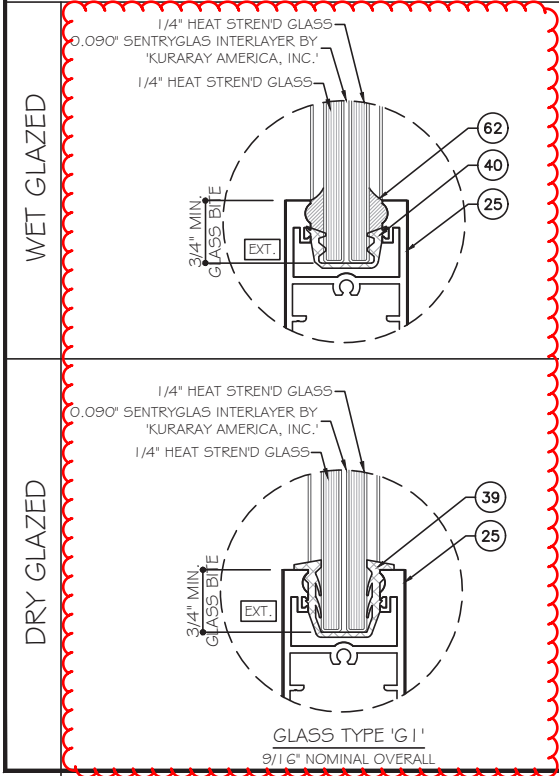
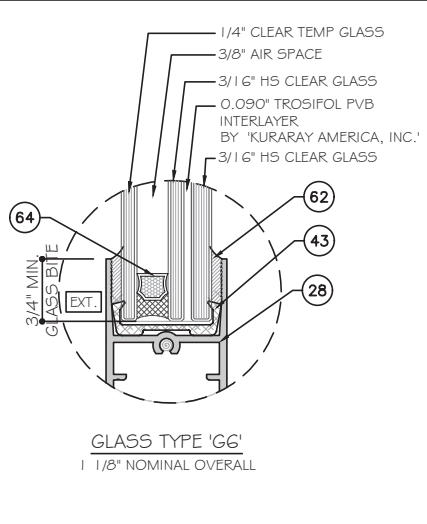
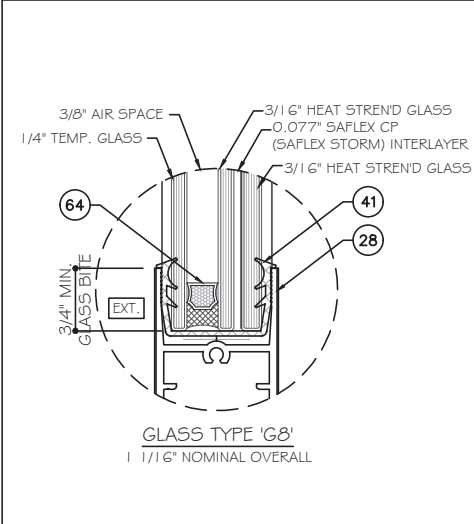
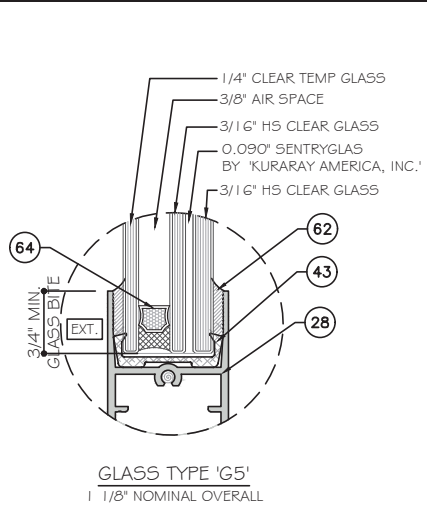
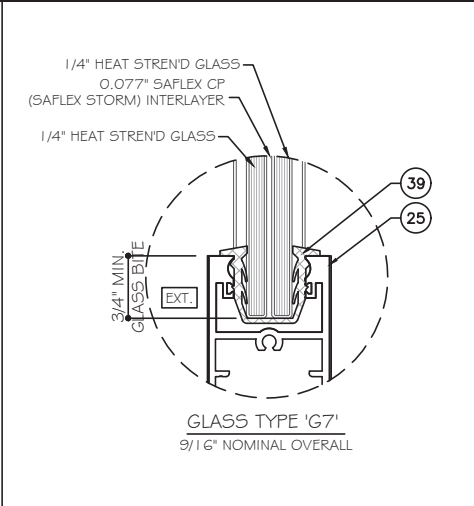
Miami, FL 33138
TEL. (305) 624-7775

[illegible]

DESIGN LOAD CAPACITY - PSF (GLASS)									
SGD PANEL SIZES		9/16" NOMINAL LAMINATED GLASS			1-1/8" NOMINAL INSUL. LAMI. GLASS		1-1/8" NOMINAL INSUL. LAMI. GLASS		
AVE. PANEL WIDTH	DOOR HEIGHT	G1	G2	G7	G3	G4	G5	G6	G8
(IN)	(IN)	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF
60	84	150.0	150.0	90.0	150.0	150.0	102.0	102.0	90.0
66		150.0	150.0	90.0	150.0	150.0	102.0	102.0	90.0
72		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
78		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
84		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
60	90	150.0	150.0	90.0	150.0	150.0	102.0	102.0	90.0
66		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
72		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
78		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
84		102.0	-	-	102.0	-	-	-	-
60	96	150.0	150.0	90.0	150.0	150.0	102.0	102.0	90.0
66		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
72		102.0	100.0	90.0	102.0	100.0	102.0	-	90.0
78		102.0	-	-	102.0	-	-	-	-
84		102.0	-	-	102.0	-	-	-	-
36	102	150.0	150.0	90.0	150.0	150.0	102	102	90.0
42		150.0	150.0	90.0	150.0	147.0	102	102	90.0
48		150.0	150.0	90.0	150.0	131.0	102	102	90.0
54		150.0	139.0	90.0	150.0	120.0	102	102	90.0
60		102.0	100.0	90.0	102.0	102.0	102	-	90.0
66	108	102.0	100.0	90.0	102.0	102.0	102	-	90.0
72		102.0	100.0	90.0	102.0	101.0	-	-	90.0
78		102.0	-	-	102.0	-	-	-	-
84		102.0	-	-	102.0	-	-	-	-
36		150.0	150.0	90.0	150.0	150.0	102	102	90.0
42	108	150.0	150.0	90.0	150.0	136.0	102	102	90.0
48		150.0	147.0	90.0	150.0	122.0	102	102	90.0
54		102.0	102.0	90.0	102.0	102.0	102	-	90.0
60		102.0	102.0	90.0	102.0	102.0	102	-	90.0
66		102.0	102.0	90.0	102.0	101.0	-	-	90.0
72	108	102.0	-	-	102.0	-	-	-	-
78		102.0	-	-	-	-	-	-	-

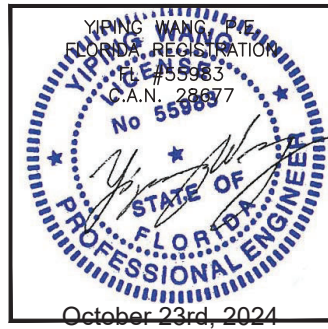
D.L.O. WIDTH = AVE. PANEL WIDTH - 4"
D.L.O. HEIGHT = FRAME HEIGHT - 9.125"

DESIGN LOAD CAPACITY - PSF (GLASS)									
SGD PANEL SIZES		9/16" NOMINAL LAMINATED GLASS			1-1/8" NOMINAL INSUL. LAMI. GLASS		1-1/8" NOMINAL INSUL. LAMI. GLASS		
AVE. PANEL WIDTH	DOOR HEIGHT	G1	G2	G7	G3	G4	G5	G6	G8
(IN)	(IN)	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF	+/- PSF
36	114	150.0	150.0	90.0	150.0	150.0	102	102	90.0
42		150.0	150.0	90.0	150.0	132.0	102	102	90.0
48		110	150.0	90.0	139.0	115.0	102	102	90.0
54		111	102.0	90.0	102.0	102.0	102	-	90.0
60		200	102.0	90.0	102.0	98.8	102	-	90.0
66	120	-	-	-	102.0	-	-	-	-
72		-	-	-	102.0	-	-	-	-
36		150.0	150.0	90.0	150.0	150.0	102	102	90.0
42		150.0	150.0	90.0	150.0	129.0	102	102	90.0
48		107	150.0	90.0	148.0	110.0	102	102	90.0
54	126	107	102.0	90.0	102.0	101.0	102	-	90.0
60		106	102.0	90.0	102.0	92.8	-	-	90.0
66		106	-	-	102.0	-	-	-	-
72		106	-	-	102.0	-	-	-	-
84		106	-	-	102.0	-	-	-	-
36	132	150.0	-	-	150.0	-	102	-	-
42		150.0	-	-	150.0	-	102	-	-
48		102.0	-	-	102.0	-	102	-	-
54		102.0	-	-	102.0	-	102	-	-
60		102.0	-	-	102.0	-	102	-	-
66	138	102.0	-	-	102.0	-	102	-	-
72		102.0	-	-	102.0	-	102	-	-
84		102.0	-	-	102.0	-	102	-	-
36		150.0	-	-	150.0	-	102	-	-
42		150.0	-	-	150.0	-	102	-	-
48	144	102.0	-	-	102.0	-	102	-	-
54		102.0	-	-	102.0	-	102	-	-
60		102.0	-	-	102.0	-	102	-	-
66		102.0	-	-	102.0	-	102	-	-
72		102.0	-	-	102.0	-	102	-	-



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

NOTE:
PARTS 39 40 41 43 ARE ALSO USED
AS SETTING BLOCK.

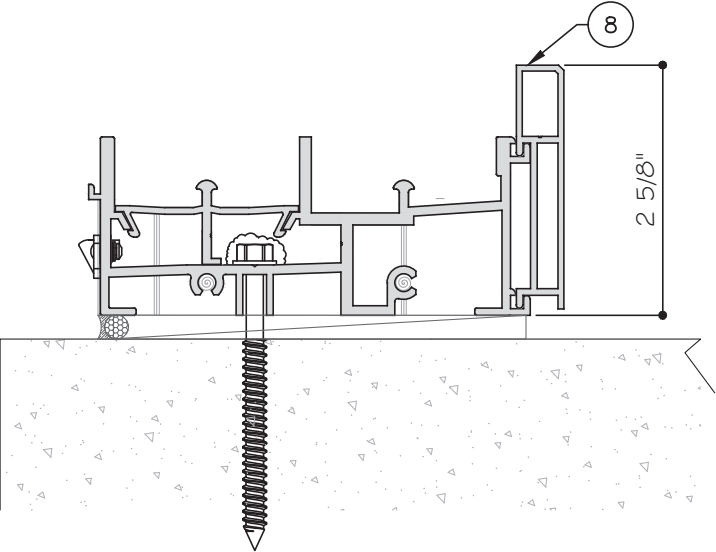


MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

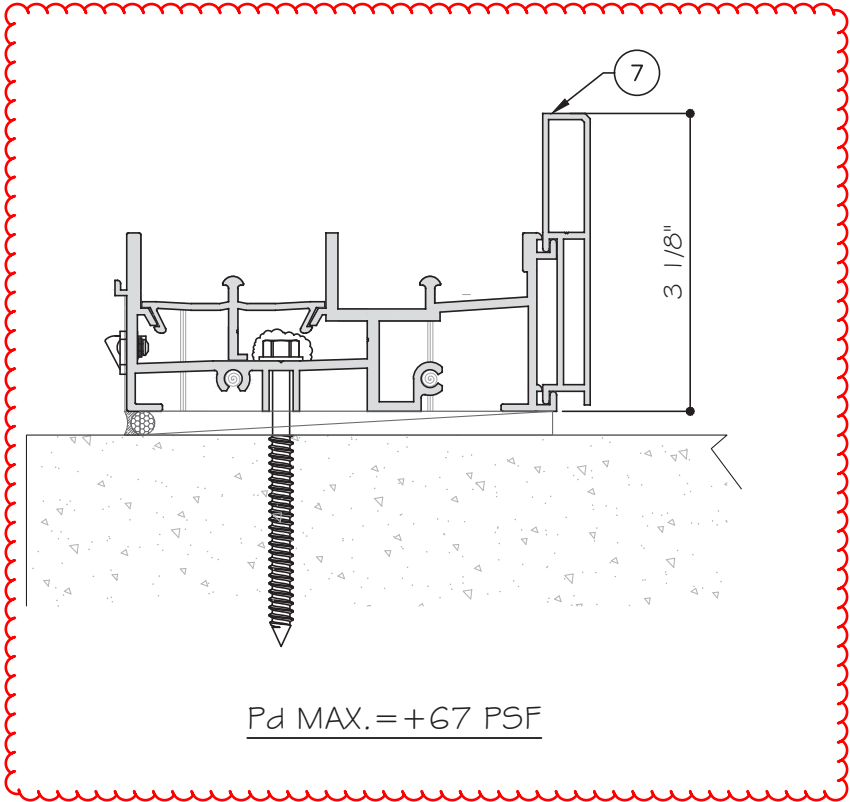
ES WINDOWS, INC.
10653 NE Quaybridge Ct.
Miami, FL 33138
TEL: (305) 624-7775

Drawn Date	10.08.2024	Scale	
DRAWING NO.	AD16-29		
Sheet No.	G1		
13 of 14	OF 59		

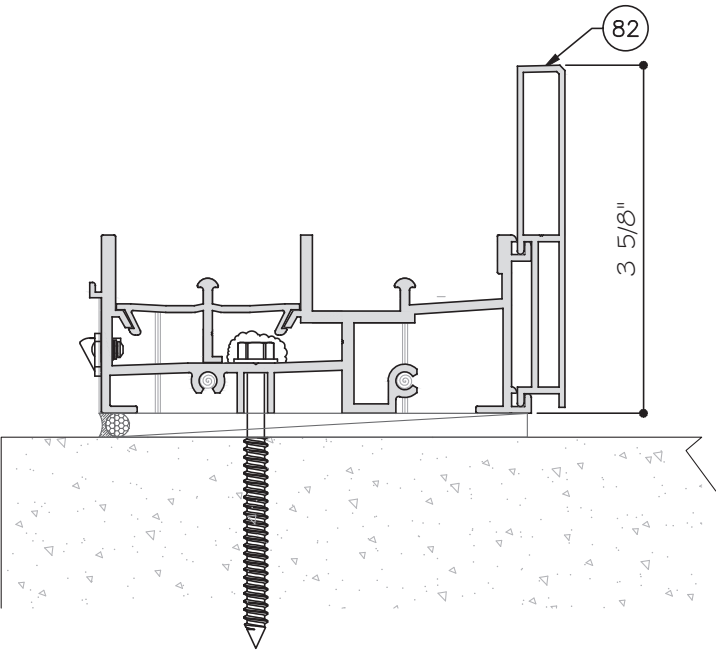
SILL RAISER OPTIONS (SHOWN ON 2 TRACK DOORS)
POSITIVE LOAD LIMITED AS FOLLOW DUE TO WATER INFILTRATION



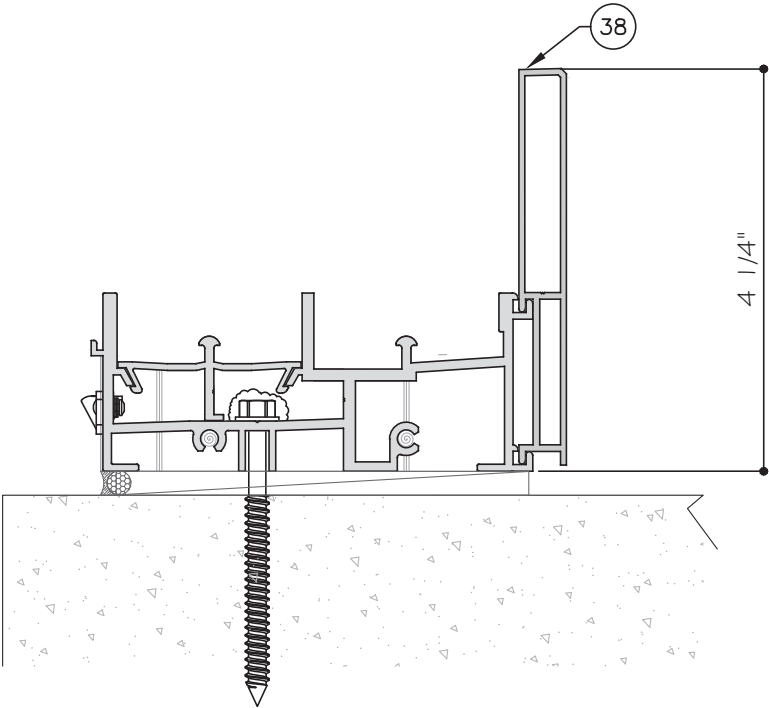
Pd MAX.= +53 PSF



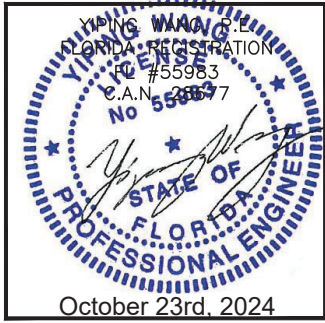
Pd MAX.= +67 PSF



Pd MAX.= +80 PSF



Pd MAX.= +90 PSF



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mcy@mcyengineering.com

M

C

E

Y

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.

Miami, FL 33138

TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	

Drawn Date

10.08.2024

Scale

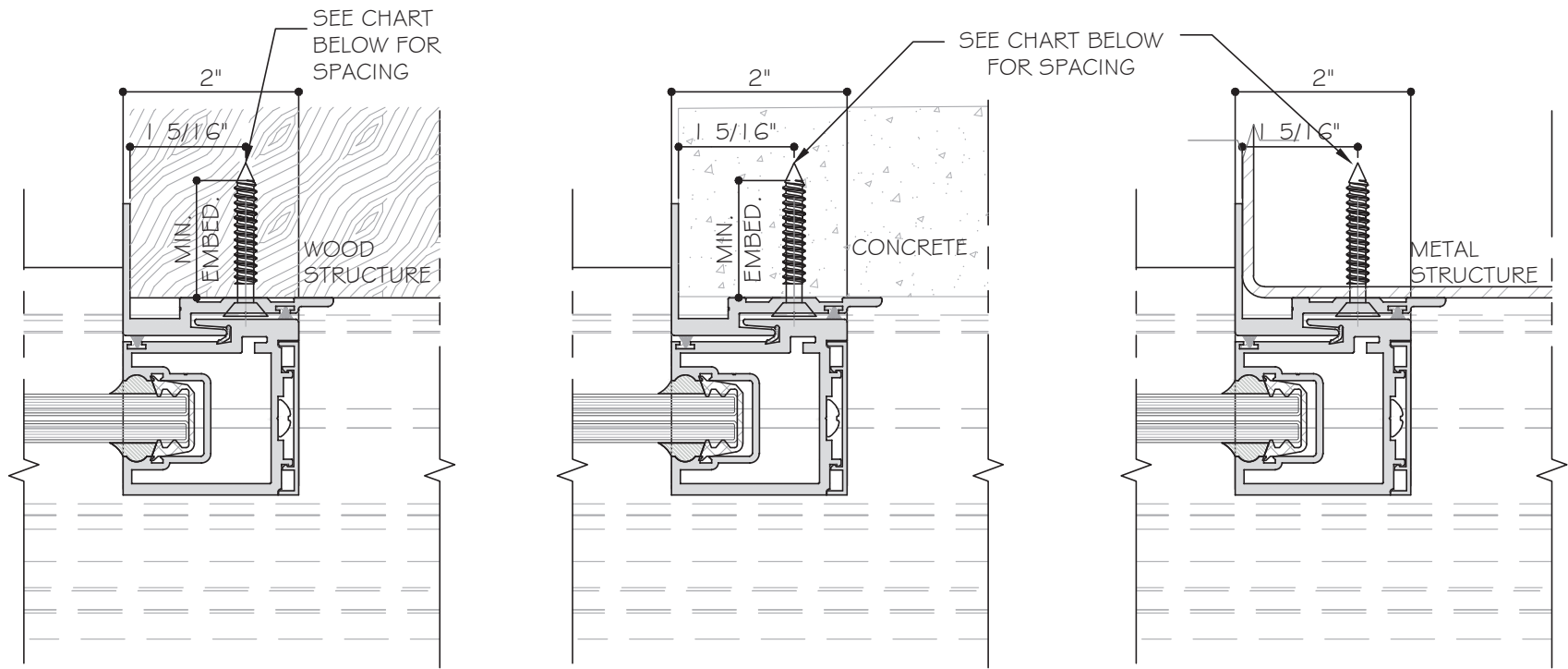
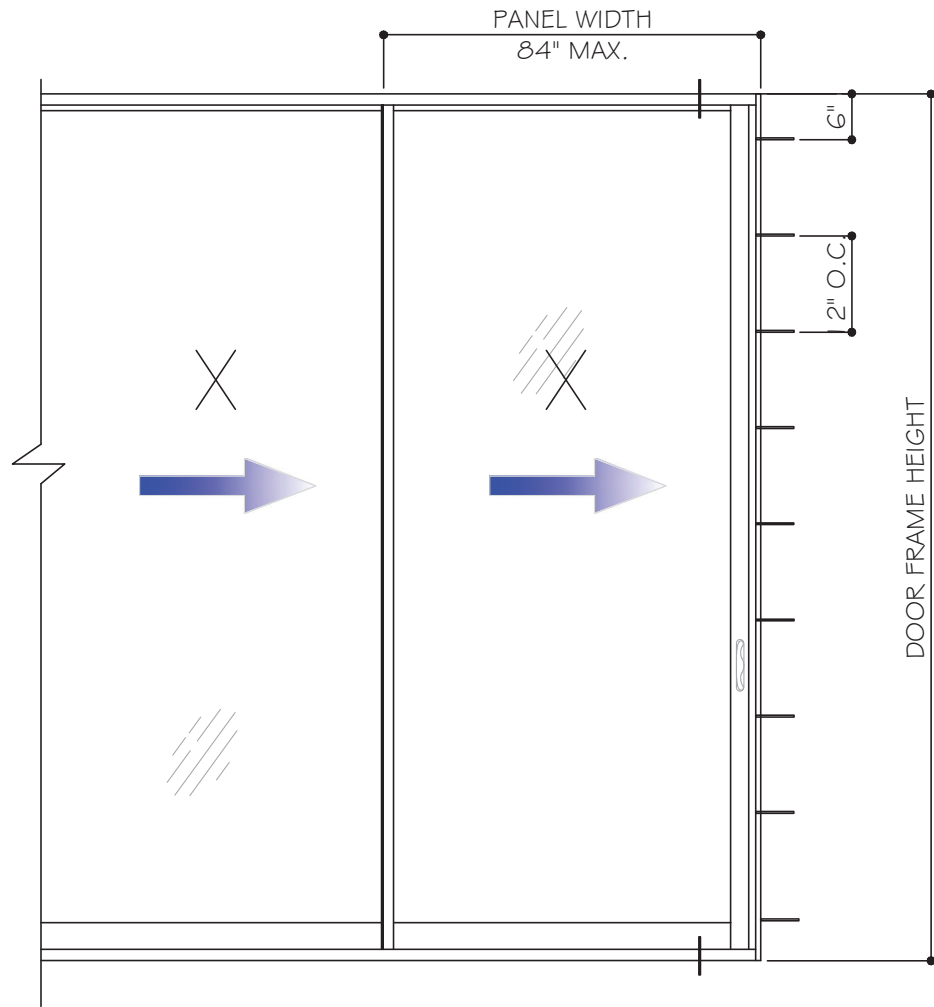
DRAWING NO.

AD16-29

K2

Sheet No.

16 OF 59

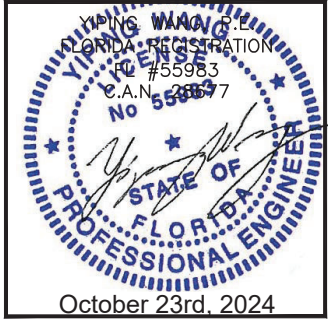
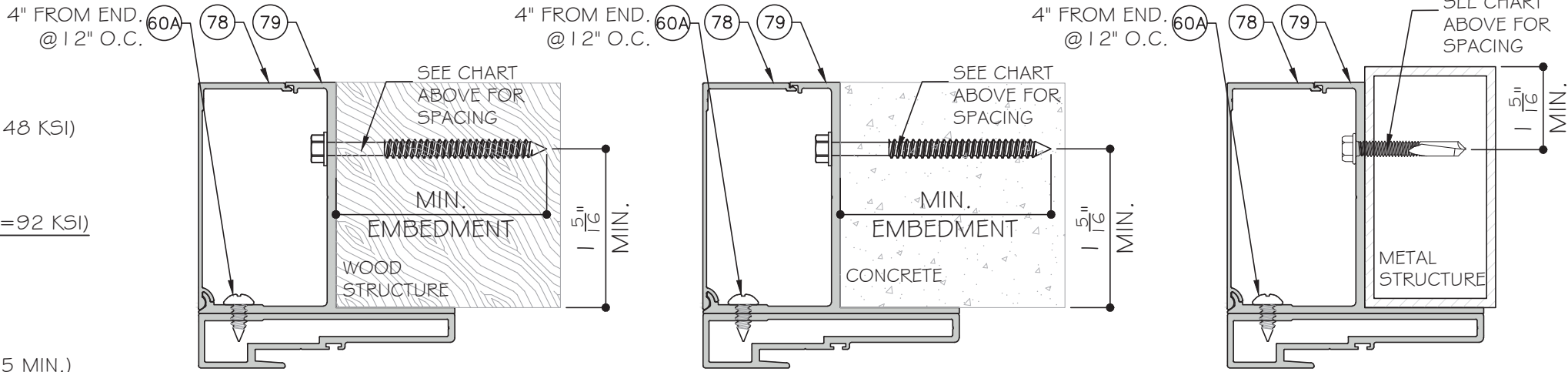


ANCHOR TYPE	EMBEDMENT	SUBSTRATE	ANCHOR SPACING	
			W≤72"	72"<W≤84"
A2 (1/4" ULTRACON)	1 3/4"	CONCRETE	12"	11"
D2(#14 TEKS)	3/16"	ALUM. 6063-T6	16"	14"
D2(#14 SMS)	1/8"	STL	14"	12"
D2A(#14 SMS)	1 1/2"	WOOD SG=0.55	13"	11"

JAMB ANCHOR TYPES:

- TYPE "B2": 1/4" DIA. ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
1 3/4" MIN. EMBED INTO f_c=3 KSI MIN. CONCRETE
1 5/16" MIN. EDGE DISTANCE
- TYPE "D2": 1/4" DIA. TEKS-SELF DRILLING SCREW (Fu=120 KSI, Fy=92 KSI)
INTO METAL STRUCTURE
ALUMINUM: 3/16" THK. MIN. (6063-T6 MIN.)
STEEL: 1/8" THK. MIN. (Fy=36KSI, MIN.)
- TYPE "D2A": 1/4" DIA. SMS (Fu=74 KSI, Fy=57 KSI)
1 1/2" MIN. EMBED INTO WOOD STRUCTURE (SG=0.55 MIN.)
1" MIN. EDGE DISTANCE

NOTE:
WOOD BUCKS/ METAL STRUCTURES BY OTHERS MUST BE PROPERLY
SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURES.



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M

C

E

Y

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

Rev.	Date	Drawn By	Description
1	10.08.2024	James	

Drawn Date
10.08.2024

Scale

DRAWING NO.
AD16-29

J4

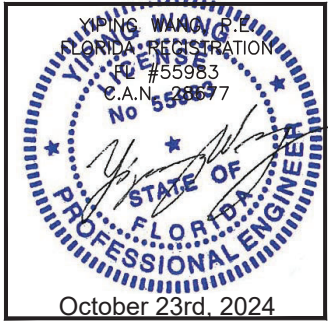
Sheet No.
24 of 59

HEAD ANCHOR CAPACITY - PSF								
SGD PANEL SIZES		ANCHOR TYPE "A" OR "AA"				ANCHOR TYPE "B"		
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	A4 AA4 +/-	A6 AA6 +/-	A8 AA8 +/-	A10 AA10 +/-	B4 +/-	B6 +/-	B8 +/-
36	84	132.4	150.0	150.0	150.0	150.0	150.0	150.0
42		118.9	150.0	150.0	150.0	150.0	150.0	150.0
48		109.2	150.0	150.0	150.0	140.0	150.0	150.0
54		102.2	150.0	150.0	150.0	131.0	150.0	150.0
60		97.1	145.6	150.0	150.0	124.4	150.0	150.0
66		93.4	140.1	150.0	150.0	119.8	150.0	150.0
72		91.0	136.5	150.0	150.0	116.7	150.0	150.0
78		89.6	134.4	150.0	150.0	114.9	150.0	150.0
84		89.1	133.7	150.0	150.0	114.3	150.0	150.0
36	90	121.3	150.0	150.0	150.0	150.0	150.0	150.0
42		108.5	150.0	150.0	150.0	139.1	150.0	150.0
48		99.3	148.9	150.0	150.0	127.3	150.0	150.0
54		92.4	138.7	150.0	150.0	118.5	150.0	150.0
60		87.4	131.0	150.0	150.0	112.0	150.0	150.0
66		93.6	125.4	150.0	150.0	107.2	150.0	150.0
72		80.9	121.3	150.0	150.0	103.7	150.0	150.0
78		79.1	118.6	150.0	150.0	101.4	150.0	150.0
84		78.0	117.0	150.0	150.0	100.0	150.0	150.0
36	96	112.0	150.0	150.0	150.0	143.6	150.0	150.0
42		99.8	149.8	150.0	150.0	128.0	150.0	150.0
48		91.0	136.5	150.0	150.0	116.7	150.0	150.0
54		84.4	126.6	150.0	150.0	108.2	150.0	150.0
60		79.4	119.1	150.0	150.0	101.8	150.0	150.0
66		75.6	113.5	150.0	150.0	97.0	145.5	150.0
72		82.8	109.2	145.6	150.0	93.3	140.0	150.0
78		70.7	106.1	141.5	150.0	90.7	136.0	150.0
84		69.3	104.0	138.7	150.0	88.9	133.3	150.0
36	102	104.0	150.0	150.0	150.0	133.3	150.0	150.0
42		92.4	138.7	150.0	150.0	118.5	150.0	150.0
48		84.0	126.0	150.0	150.0	107.7	150.0	150.0
54		77.7	116.5	150.0	150.0	99.6	149.3	150.0
60		72.8	109.2	145.6	150.0	93.3	140.0	150.0
66		69.1	103.6	138.1	150.0	88.5	132.8	150.0
72		66.2	99.3	132.4	150.0	84.8	127.3	150.0
78		64.0	96.0	128.0	150.0	82.1	123.1	150.0
84		62.4	93.6	124.8	150.0	80.0	120.0	150.0
36	108	97.1	145.6	150.0	150.0	124.4	150.0	150.0
42		86.1	129.1	150.0	150.0	110.3	150.0	150.0
48		78.0	117.0	150.0	150.0	100.0	150.0	150.0
54		71.9	107.9	143.8	150.0	92.2	138.3	150.0
60		67.2	100.8	134.4	150.0	86.2	129.2	150.0
66		63.5	95.3	127.1	150.0	81.5	122.2	150.0
72		60.7	91.0	121.3	150.0	77.8	116.7	150.0
78		58.4	87.7	116.9	146.1	74.9	112.4	149.8

HEAD ANCHOR CAPACITY - PSF								
SGD PANEL SIZES		ANCHOR TYPE "A" OR "AA"				ANCHOR TYPE "B"		
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	A4 AA4 +/-	A6 AA6 +/-	A8 AA8 +/-	A10 AA10 +/-	B4 +/-	B6 +/-	B8 +/-
36	114	91.0	136.5	150.0	150.0	116.7	150.0	150.0
42		80.5	120.8	150.0	150.0	103.2	150.0	150.0
48		72.8	109.2	145.6	150.0	93.3	140.0	150.0
54		66.9	100.4	133.9	150.0	85.8	128.7	150.0
60		62.4	93.6	124.8	150.0	80.0	120.0	150.0
66		58.8	88.2	117.7	147.1	75.4	113.1	150.0
72		54.0	84.0	112.0	112.0	71.8	107.7	143.6
36	120	75.6	128.5	150.0	150.0	109.8	150.0	150.0
42		68.3	113.5	150.0	150.0	97.0	145.5	150.0
48		62.6	102.4	136.5	150.0	87.5	131.3	150.0
54		58.2	93.9	125.2	150.0	80.3	120.4	150.0
60		54.8	87.4	116.5	145.6	74.7	112.0	149.3
66		52.0	82.2	109.5	136.9	70.2	105.3	140.4
72		48.0	78.0	104.0	130.0	66.7	100.0	133.3
36	126	71.8	121.3	150.0	150.0	103.7	150.0	150.0
42		64.5	107.0	142.6	150.0	91.4	137.1	150.0
48		60.0	96.4	128.5	150.0	82.4	123.5	150.0
54		55.0	88.2	117.7	147.1	75.4	113.1	150.0
60		54.6	81.9	109.2	136.5	70.0	105.0	140.0
66		51.2	76.9	102.5	128.1	65.7	98.5	131.4
36	132	76.6	114.9	150.0	150.0	98.2	147.4	150.0
42		67.5	101.2	134.9	150.0	86.5	129.7	150.0
48		60.7	91.0	121.3	150.0	77.8	116.7	150.0
54		55.5	83.2	110.9	138.7	71.1	106.7	142.2
60		51.4	77.1	102.8	128.5	65.9	98.8	131.8
66		48.1	72.2	96.3	120.3	61.7	92.6	123.4
36	138	72.8	109.2	145.6	150.0	93.3	140.0	150.0
42		64.0	96.0	128.0	150.0	82.1	123.1	150.0
48		57.5	86.2	114.9	143.7	73.7	110.5	147.4
54		52.5	78.7	104.9	131.2	67.3	100.9	134.5
60		48.5	72.8	97.1	121.3	62.2	93.3	124.4
36	144	69.3	104.0	138.7	150.0	88.9	133.3	150.0
42		60.9	91.3	121.8	150.0	78.0	117.1	150.0
48		54.6	81.9	109.2	136.5	70.0	105.0	140.0
54		49.8	74.7	99.6	124.4	63.8	95.7	127.6
60		46.0	69.0	92.0	114.9	58.9	88.4	117.9

A4 OR AA4 - A CLUSTER OF (4) TYPE "A" OR "AA" ANCHORS AT HEAD
A6 OR AA6- A CLUSTER OF (6) TYPE "A" OR "AA" ANCHORS AT HEAD
A8 OR AA8- A CLUSTER OF (8) TYPE "A" OR "AA" ANCHORS AT HEAD
A10 OR AA10 - A CLUSTER OF (10) TYPE "A" OR "AA" ANCHORS AT HEAD
B4 - A CLUSTER OF (4) TYPE "B" ANCHORS AT HEAD
B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT HEAD
B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT HEAD

FOR ANCHOR TYPES & LAYOUT, SEE SHEET A6 & A7



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ES WINDOWS, INC.

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Drawn Date

10.08.2024

Scale

DRAWING NO.

AD16-29

A1

Sheet No.

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Rev. No.

10.08.2024

James

Drawn By

Date

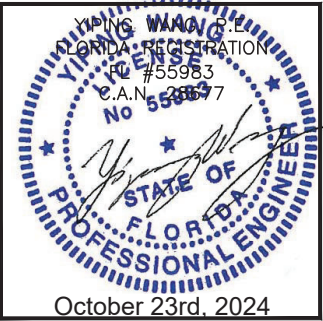
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SILL ANCHOR CAPACITY - PSF				
SGD PANEL SIZES		ANCHOR TYPE "A" / "B"		
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	A4 / B4 +/-	A6 / B6 +/-	A8 / B8 +/-
36	84	150.0	150.0	150.0
42		150.0	150.0	150.0
48		146.8	150.0	150.0
54		137.4	150.0	150.0
60		130.5	150.0	150.0
66		125.6	150.0	150.0
72		122.3	150.0	150.0
78		120.5	150.0	150.0
84		119.8	150.0	150.0
36	90	150.0	150.0	150.0
42		145.9	150.0	150.0
48		133.5	150.0	150.0
54		124.3	150.0	150.0
60		117.4	150.0	150.0
66		112.4	150.0	150.0
72		108.7	150.0	150.0
78		106.3	150.0	150.0
84		104.9	150.0	150.0
36	96	150.0	150.0	150.0
42		134.2	150.0	150.0
48		122.3	150.0	150.0
54		113.5	150.0	150.0
60		106.8	150.0	150.0
66		101.7	150.0	150.0
72		97.9	146.8	150.0
78		95.1	142.6	150.0
84		93.2	139.8	150.0
36	102	139.8	150.0	150.0
42		124.3	150.0	150.0
48		112.9	150.0	150.0
54		104.4	150.0	150.0
60		97.9	146.8	150.0
66		92.8	139.3	150.0
72		89.0	133.5	150.0
78		86.0	129.1	150.0
84		83.9	125.8	150.0
36	108	130.5	150.0	150.0
42		115.7	150.0	150.0
48		104.9	150.0	150.0
54		96.7	145.0	150.0
60		90.3	135.5	150.0
66		85.4	128.1	150.0
72		81.6	122.3	150.0
78		78.6	117.8	150.0

SILL ANCHOR CAPACITY - PSF				
SGD PANEL SIZES		ANCHOR TYPE "A" / "B"		
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	A4 / B4 +/-	A6 / B6 +/-	A8 / B8 +/-
36	114	122.3	150.0	150.0
42		108.2	150.0	150.0
48		97.9	146.8	150.0
54		90.0	135.0	150.0
60		83.9	125.8	150.0
66		79.1	118.6	150.0
72		75.0	112.9	150.0
36	120	107.0	150.0	150.0
42		101.7	150.0	150.0
48		91.8	137.6	150.0
54		84.2	126.3	150.0
60		78.3	117.4	150.0
66		73.6	110.4	147.3
72		69.8	104.9	139.8
36	126	106.0	150.0	150.0
42		99.0	143.8	150.0
48		89.0	129.5	150.0
54		79.0	118.6	150.0
60		73.4	110.1	146.8
66		68.9	103.3	137.8
72		65.2	97.9	130.5
36	132	103.0	150.0	150.0
42		90.7	136.0	150.0
48		81.6	122.3	150.0
54		74.6	111.8	149.1
60		69.1	103.6	138.2
66		64.7	97.1	129.4
72		61.0	91.7	122.3
36	138	97.9	146.8	150.0
42		86.0	129.1	150.0
48		77.3	115.9	150.0
54		70.5	105.8	141.1
60		65.2	97.9	130.5
66		61.0	91.7	122.3
72		57.3	86.3	117.8
36	144	93.2	139.8	150.0
42		81.8	122.8	150.0
48		73.4	110.1	146.8
54		66.9	100.4	133.8
60		61.8	92.7	123.6
66		58.0	87.3	119.1
72		54.3	82.0	114.6
78		50.6	76.7	110.1

A4 - A CLUSTER OF (4) TYPE "A" ANCHORS AT SILL
A6 - A CLUSTER OF (6) TYPE "A" ANCHORS AT SILL
A8 - A CLUSTER OF (8) TYPE "A" ANCHORS AT SILL
B4 - A CLUSTER OF (4) TYPE "B" ANCHORS AT SILL
B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT SILL
B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT SILL

FOR ANCHOR TYPES & LAYOUT, SEE SHEET A8



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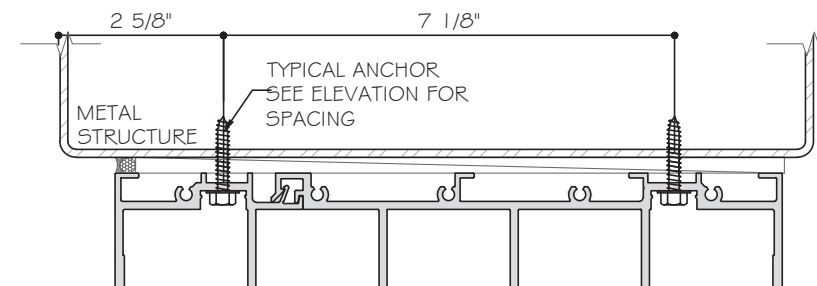
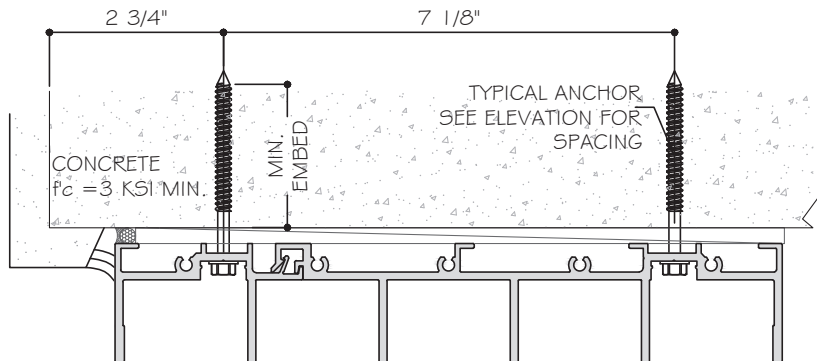
AD16-29

A5

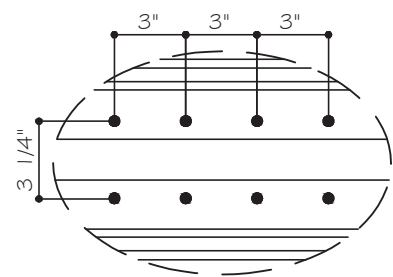
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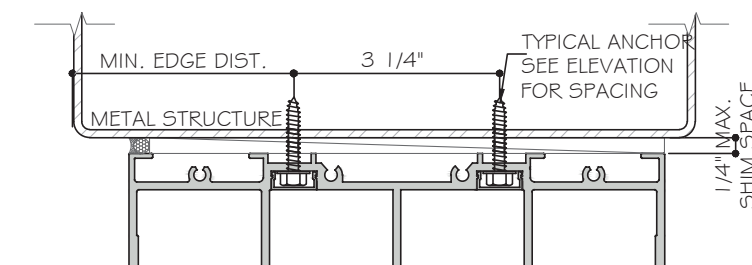
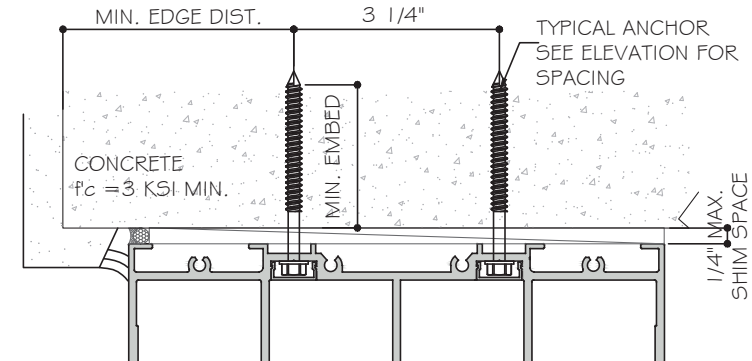
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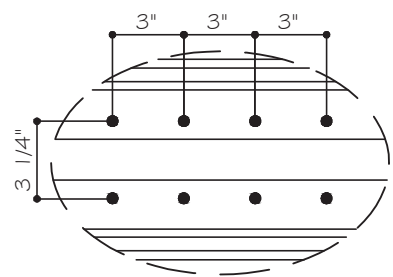
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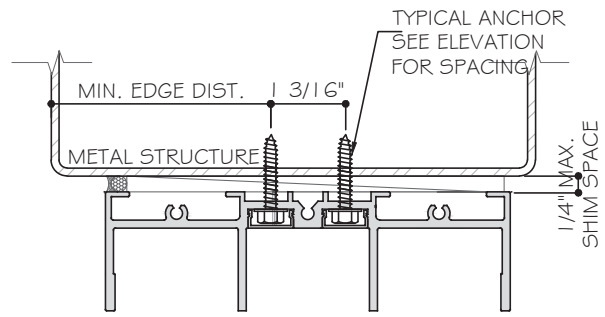
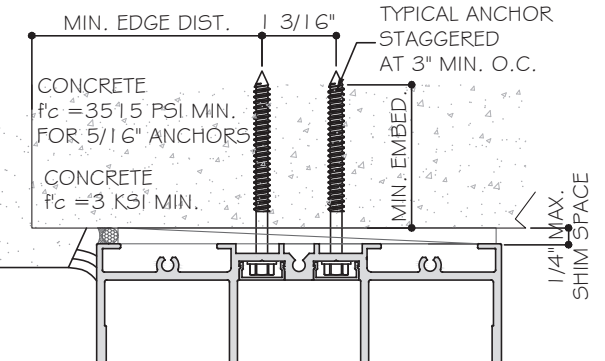
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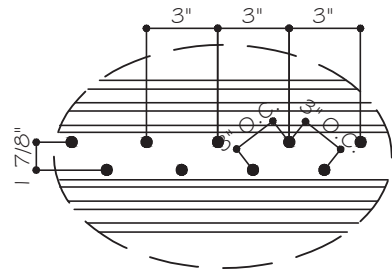
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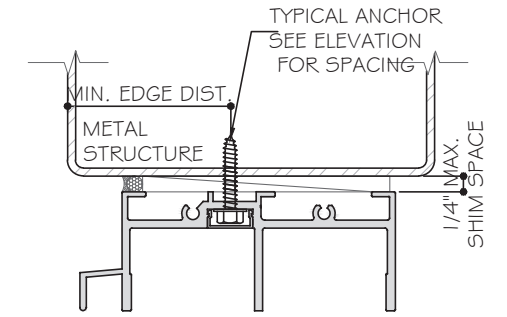
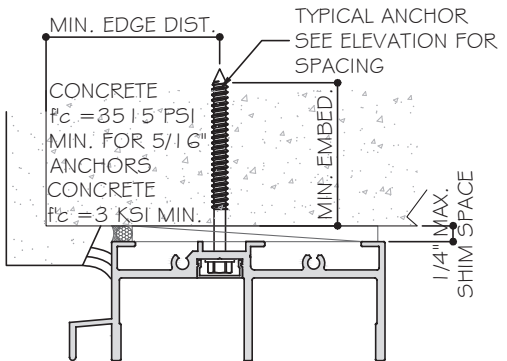
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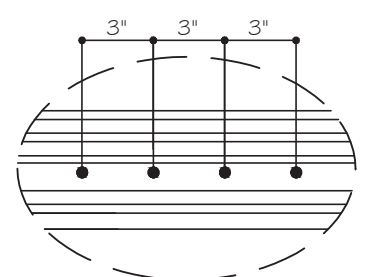
3 TRACK SGD



3 TRACK SGD



2 TRACK SGD



2 TRACK SGD

HEAD ANCHOR TYPES:

- TYPE "A": 1/4" DIA. KWIKCON ($F_u=138$ KSI, $F_y=137$ KSI)
1 3/4" MIN. EMBED INTO $f'_c=3$ KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.
- TYPE "B": 1/4" DIA. ULTRAACON+ BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
1 3/4" MIN. EMBED INTO $f'_c=3$ KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.
- TYPE "C": 5/16" DIA. ULTRAACON BY DEWALT ($F_u=177$ KSI, $F_y=155$ KSI)
1 3/4" MIN. EMBED INTO $f'_c=3515$ PSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

- TYPE "D": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ($F_u=120$ KSI, $F_y=92$ KSI)
INTO METAL STRUCTURE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y=36$ KSI, MIN.)

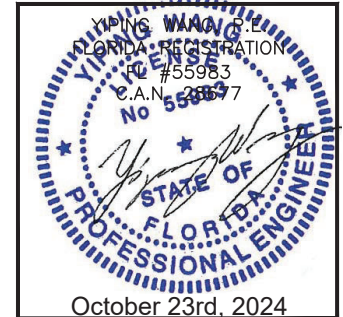
- TYPE "E": 5/16" TEKS/DRIL-FLEX SCREW ($F_u=120$ KSI, $F_y=92$ KSI)
INTO METAL STRUCTURE
(3) THREAD MIN. PENETRATION BEYOND METAL SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y=36$ KSI, MIN.)

STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

- A4 - A CLUSTER OF (4) TYPE "A" ANCHORS AT HEAD
A6 - A CLUSTER OF (6) TYPE "A" ANCHORS AT HEAD
A8 - A CLUSTER OF (8) TYPE "A" ANCHORS AT HEAD
A10 - A CLUSTER OF (10) TYPE "A" ANCHORS AT HEAD
B4 - A CLUSTER OF (4) TYPE "B" ANCHORS AT HEAD
B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT HEAD
B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT HEAD

NOTE:
WOOD BUCKS/ METAL STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.

- C4 - A CLUSTER OF (4) TYPE "C" ANCHORS AT HEAD
C6 - A CLUSTER OF (6) TYPE "C" ANCHORS AT HEAD
D4 - A CLUSTER OF (4) TYPE "D" ANCHORS AT HEAD
D6 - A CLUSTER OF (6) TYPE "D" ANCHORS AT HEAD
D8 - A CLUSTER OF (8) TYPE "D" ANCHORS AT HEAD
E4 - A CLUSTER OF (4) TYPE "E" ANCHORS AT HEAD
E6 - A CLUSTER OF (6) TYPE "E" ANCHORS AT HEAD



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Rev.	Date	Drawn By	Description
1	10.08.2024	James	

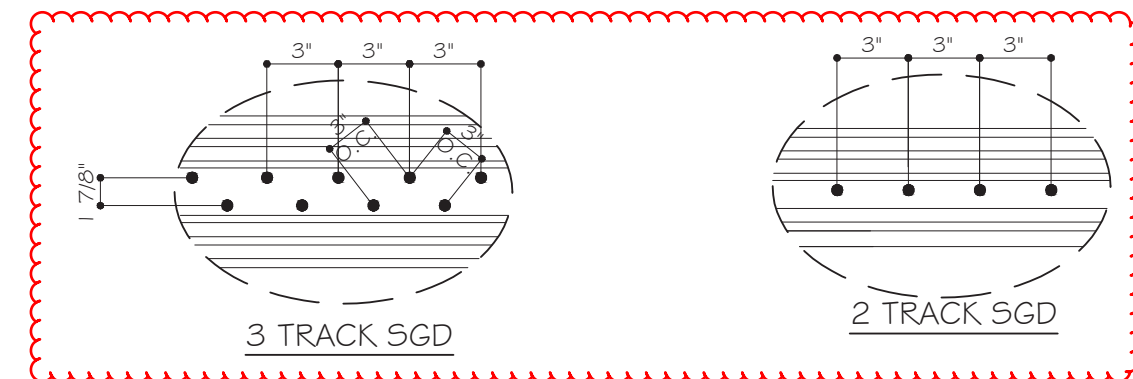
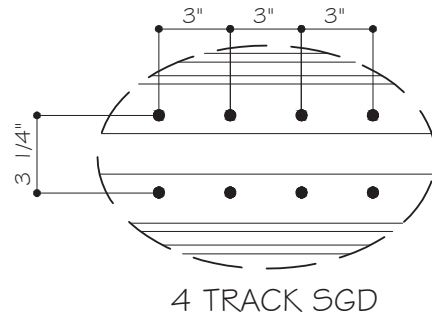
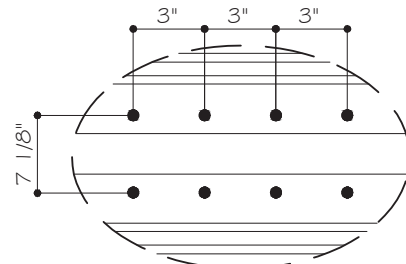
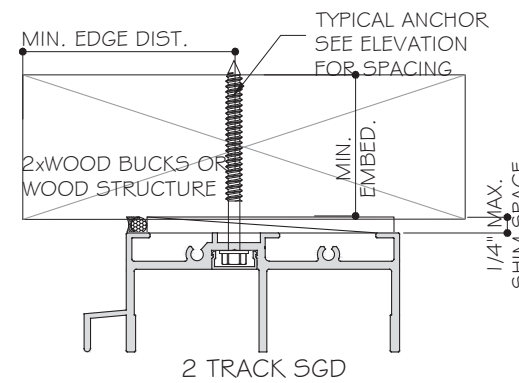
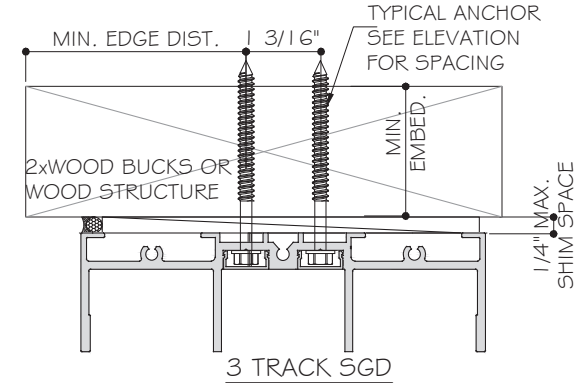
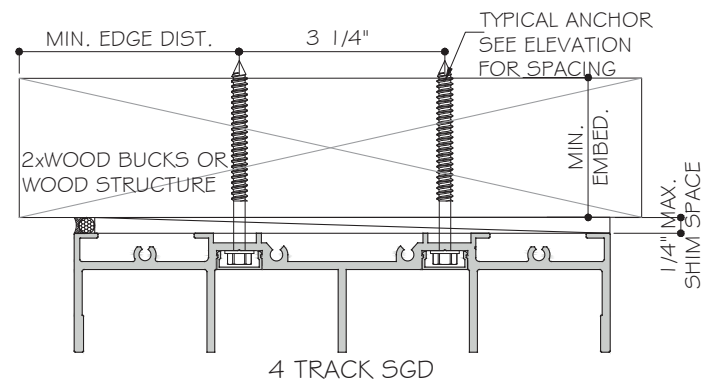
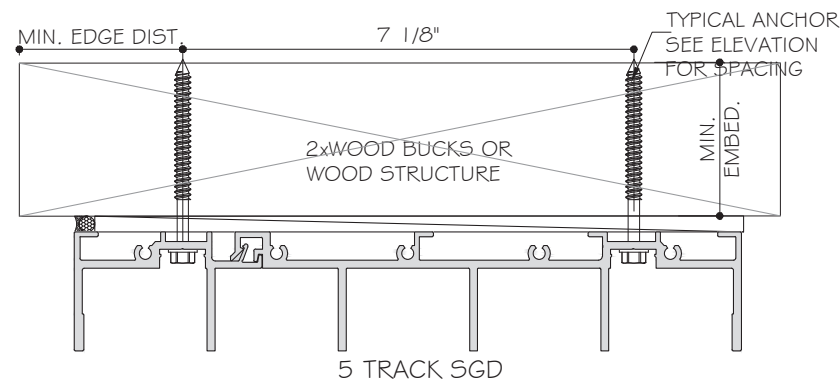
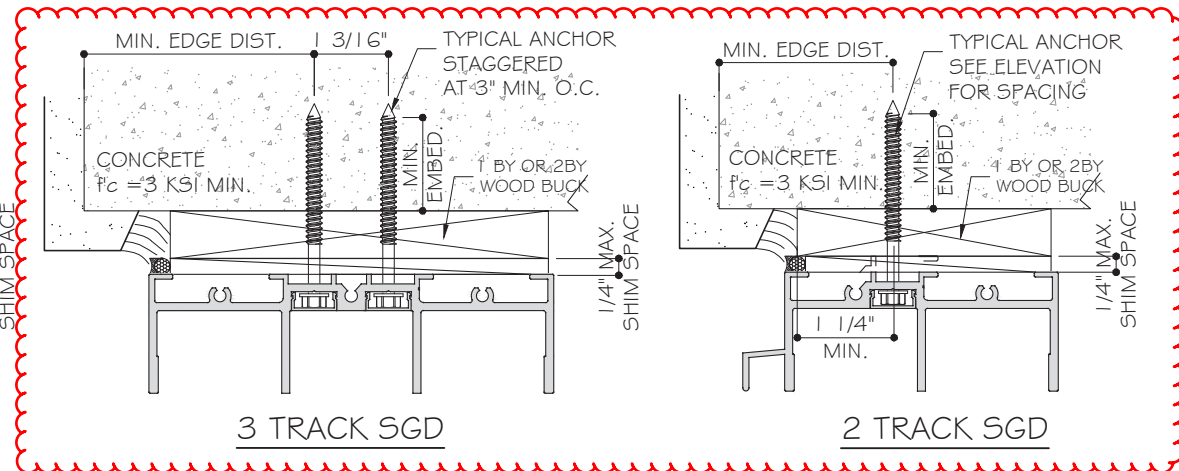
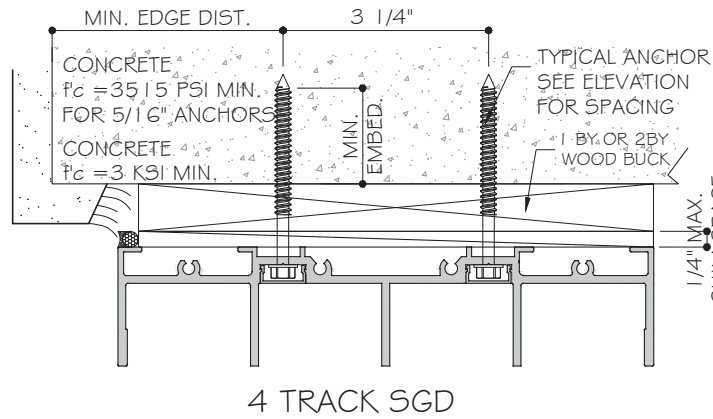
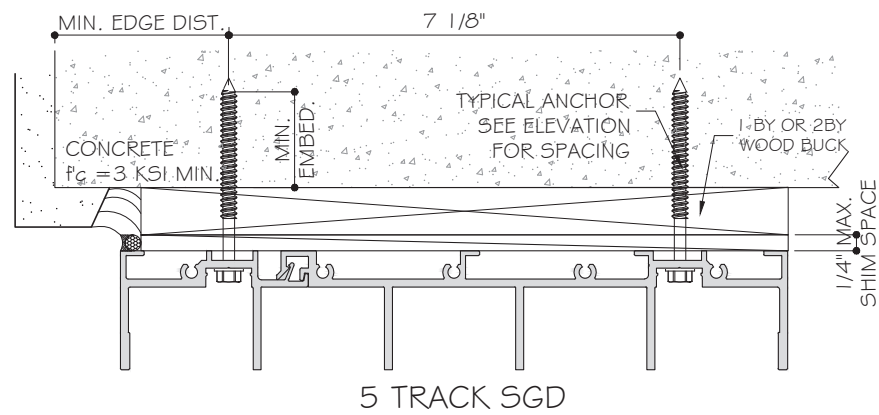
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HEAD ANCHOR TYPES:

5 TRACK SGD

TYPE "AA": 1/4" DIA. KWIKCON ($F_u = 138$ KSI, $F_y = 137$ KSI)
 1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
 SG=0.55 MIN.
 OR THRU 1 BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED
 INTO $f'_c = 3000$ PSI CONCRETE
 2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

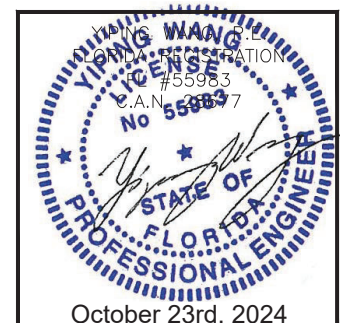
TYPE "BB": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164$ KSI, $F_y = 148$ KSI)
 1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
 SG=0.55 MIN.
 OR THRU 1 BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED
 INTO $f'_c = 3000$ PSI CONCRETE
 2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "CC": 5/16" DIA. ULTRACON BY DEWALT ($F_u = 177$ KSI, $F_y = 155$ KSI)
 1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
 SG=0.55 MIN.
 OR THRU 1 BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED
 INTO $f'_c = 3515$ PSI CONCRETE
 2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

AA4 - A CLUSTER OF (4) TYPE "AA" ANCHORS AT HEAD
 AA6 - A CLUSTER OF (6) TYPE "AA" ANCHORS AT HEAD
 AA8 - A CLUSTER OF (8) TYPE "AA" ANCHORS AT HEAD
 AA10 - A CLUSTER OF (10) TYPE "AA" ANCHORS AT HEAD
 BB4 - A CLUSTER OF (4) TYPE "BB" ANCHORS AT HEAD
 BB6 - A CLUSTER OF (6) TYPE "BB" ANCHORS AT HEAD
 BB8 - A CLUSTER OF (8) TYPE "BB" ANCHORS AT HEAD
 BB10 - A CLUSTER OF (10) TYPE "BB" ANCHORS AT HEAD
 CC4 - A CLUSTER OF (4) TYPE "CC" ANCHORS AT HEAD
 CC6 - A CLUSTER OF (6) TYPE "CC" ANCHORS AT HEAD
 CC8 - A CLUSTER OF (8) TYPE "CC" ANCHORS AT HEAD
 CC10 - A CLUSTER OF (10) TYPE "CC" ANCHORS AT HEAD

NOTE:

WOOD BUCKS/ METAL STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.



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Rev.	Date	Drawn By	Description
1	10.08.2024	James	REVISION
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10			

Drawn Date
 10.08.2024

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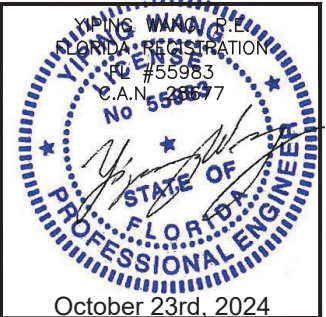
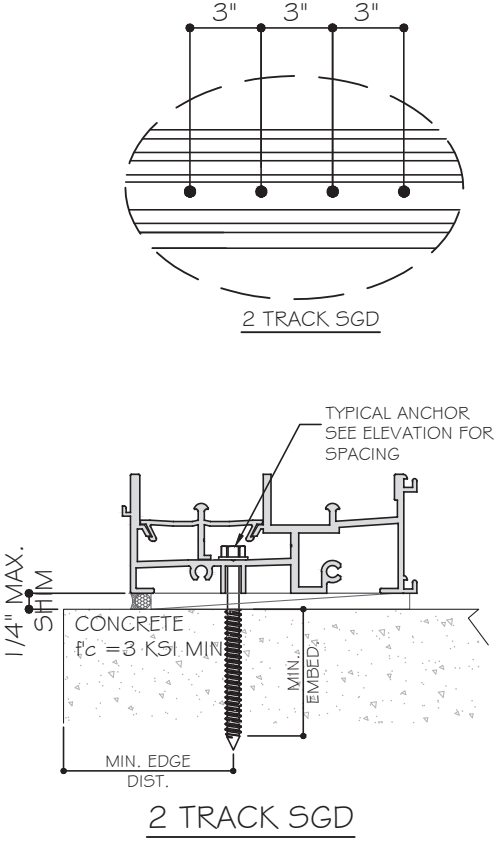
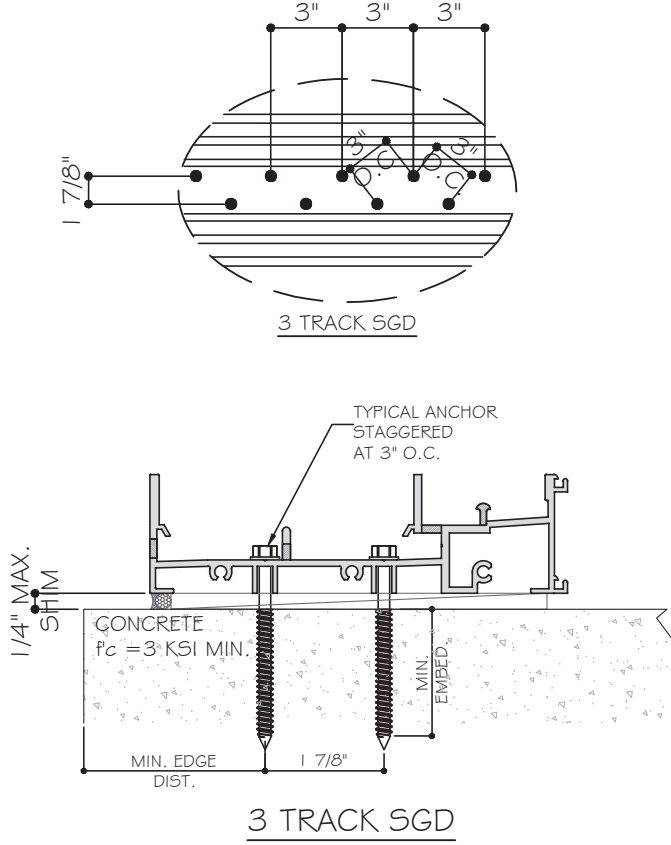
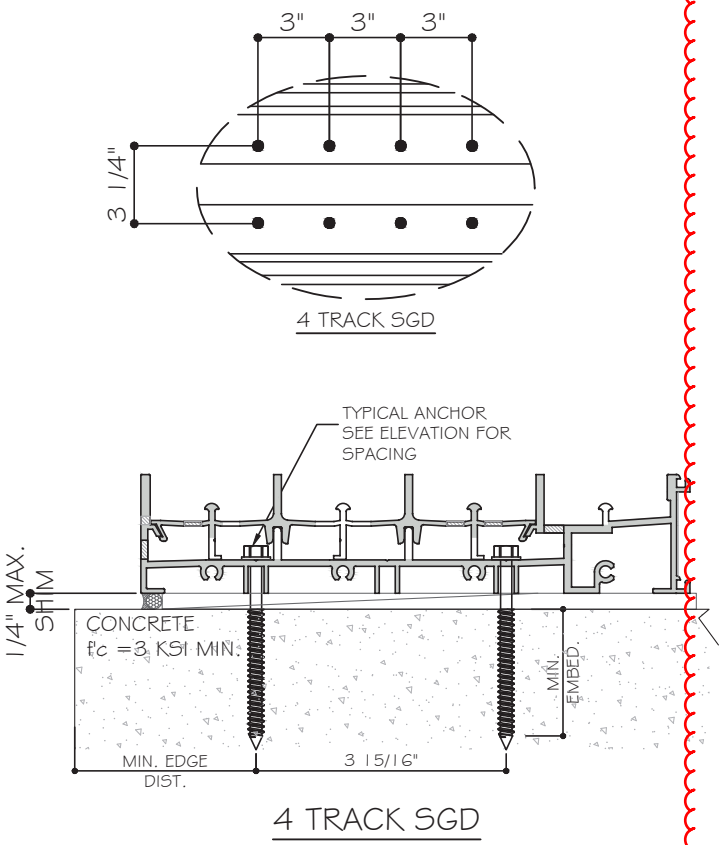
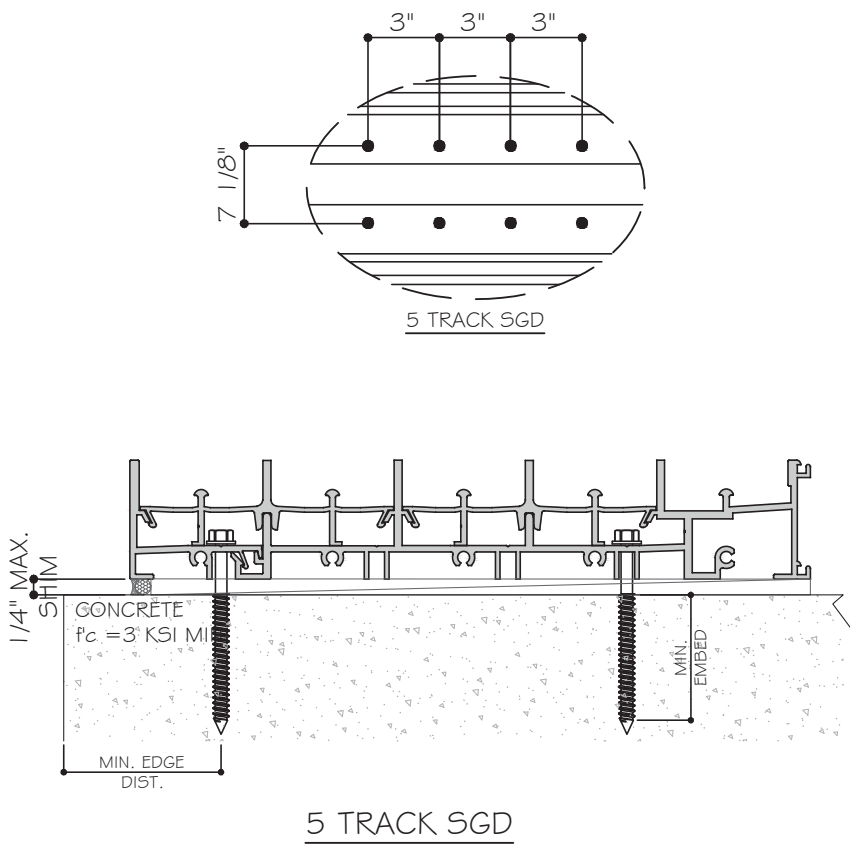
A7

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SILL ANCHOR TYPES:

TYPE "A": 1/4" DIA. KWIKCON ($F_u=138$ KSI, $F_y=137$ KSI)
1 3/4" MIN. EMBED INTO $f_c=3$ KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

TYPE "B": 1/4" DIA. ULTRACON+ ($F_u=164$ KSI, $F_y=148$ KSI)
1 3/4" MIN. EMBED INTO $f_c=3$ KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.



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M

C

Y

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1	10.08.2024	James	

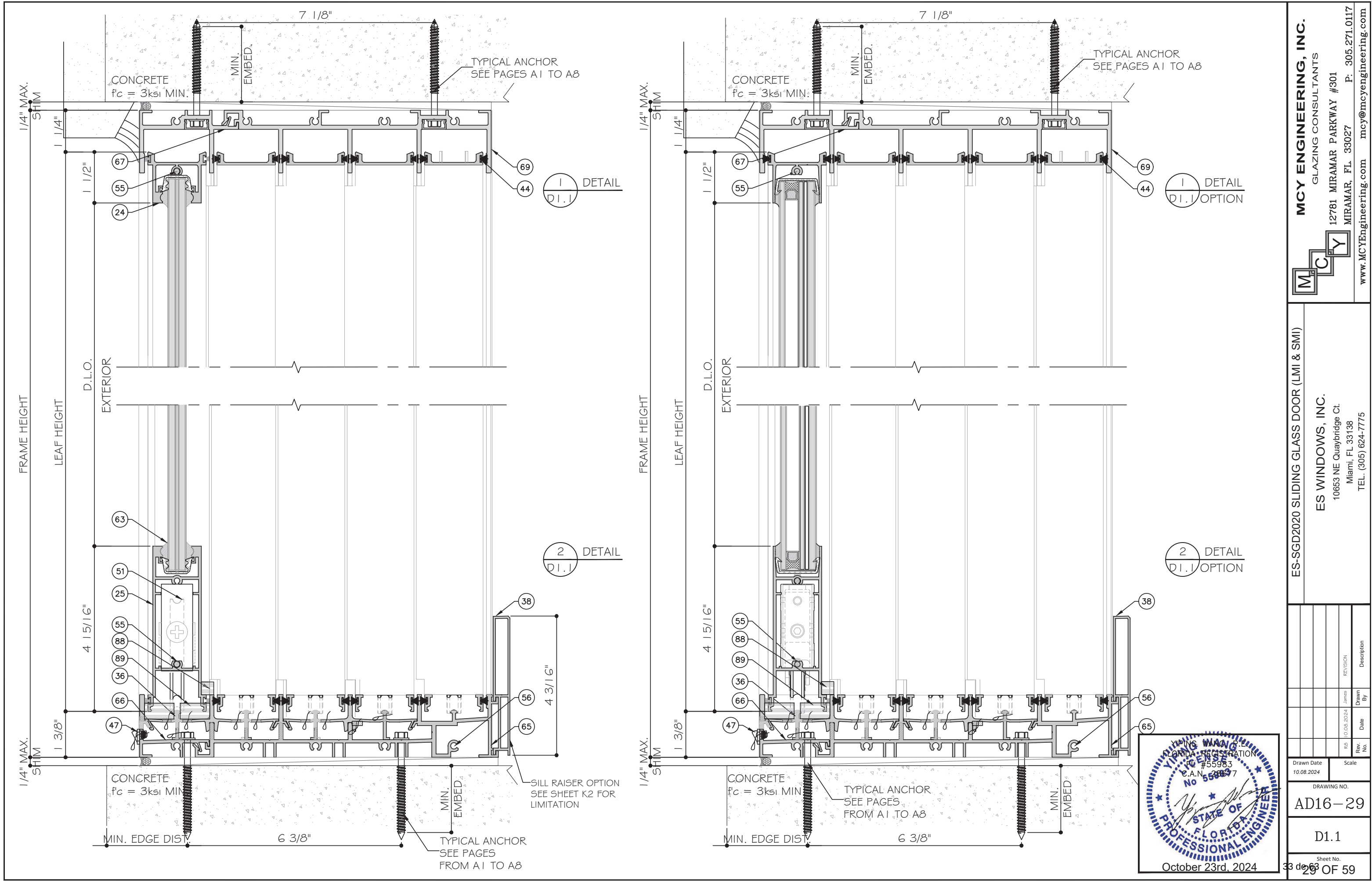
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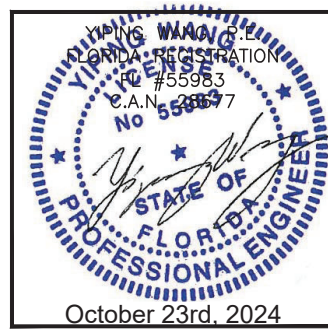
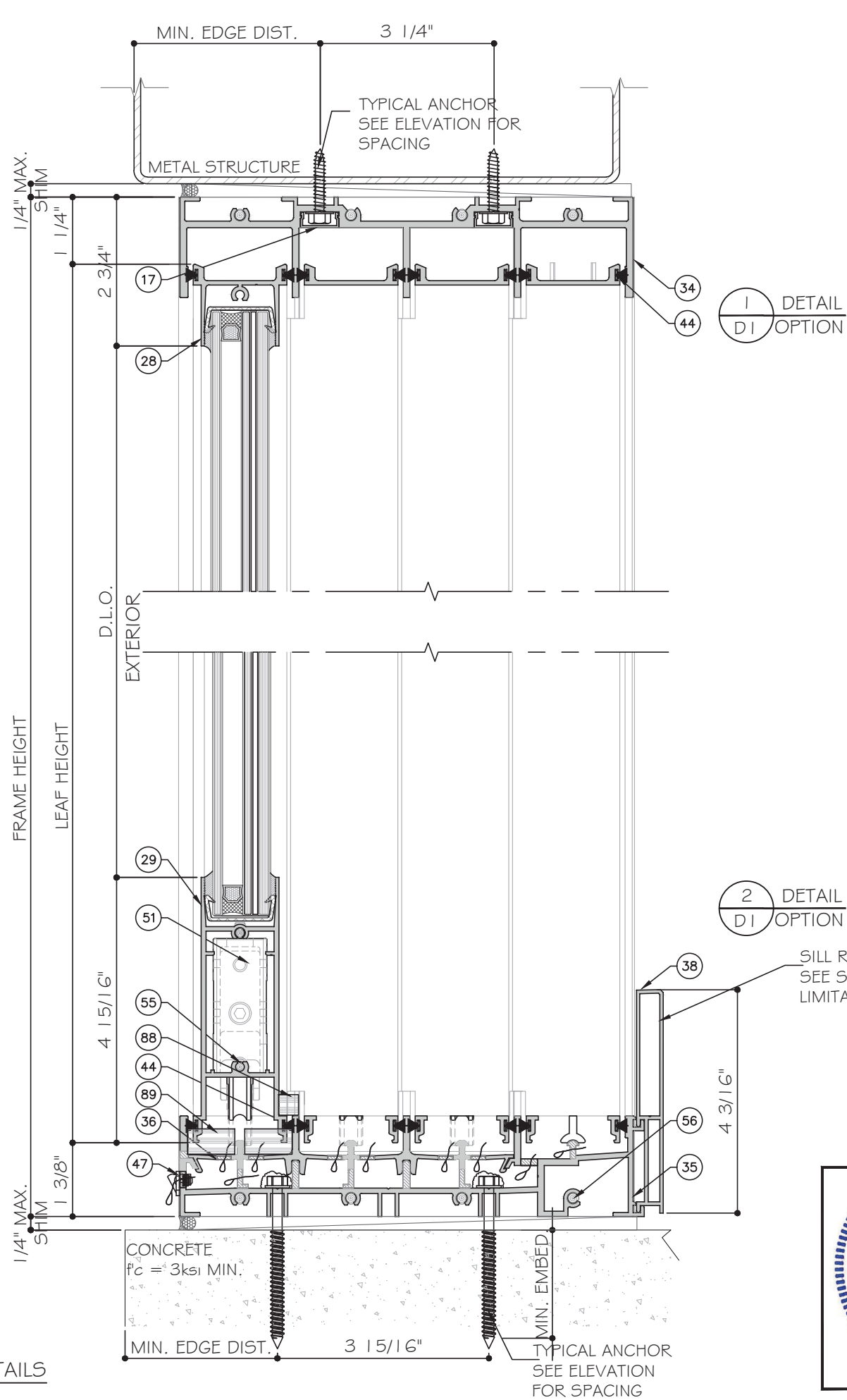
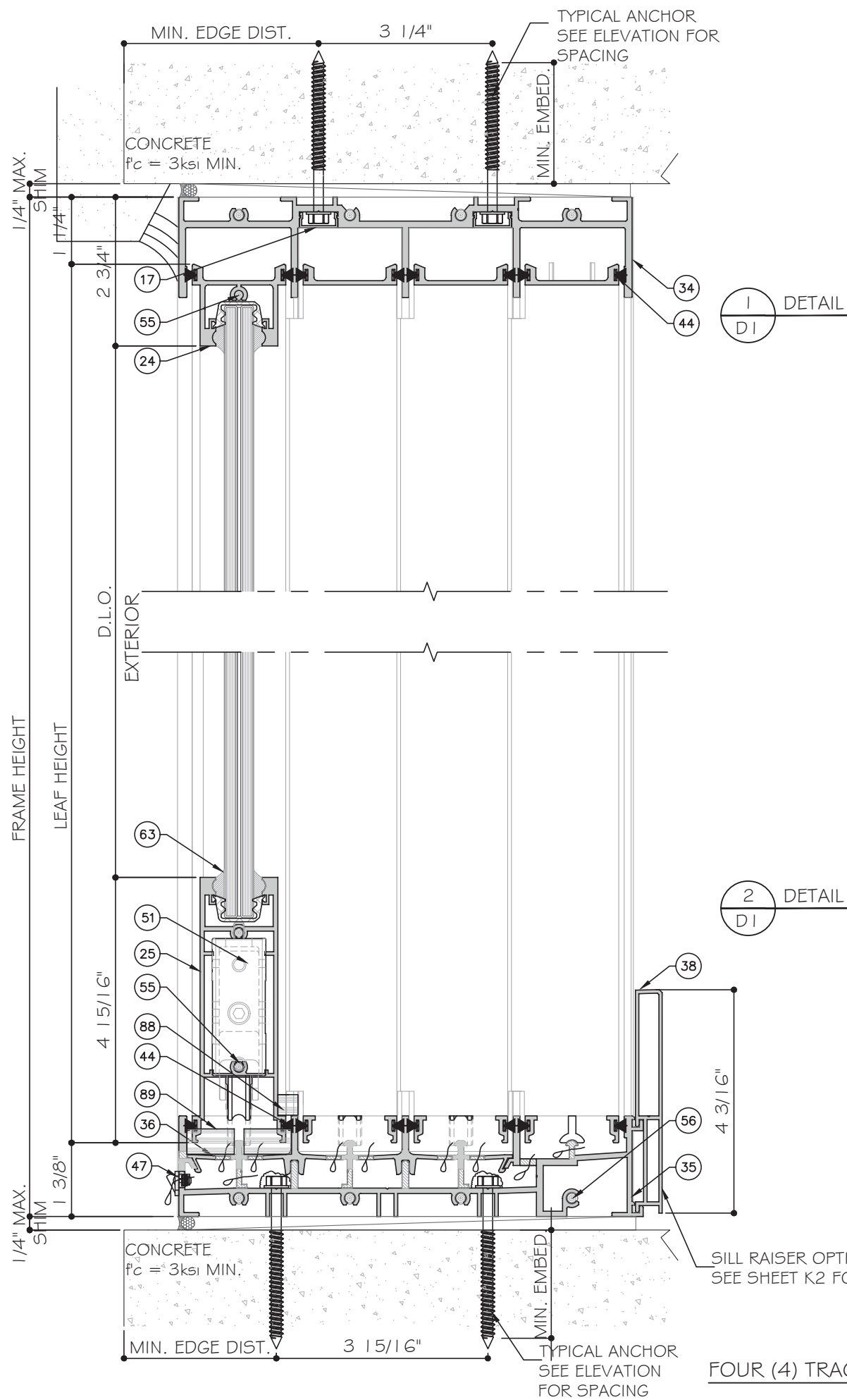
AD16-29

D1.1

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FOUR (4) TRACK DOOR DETAILS

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

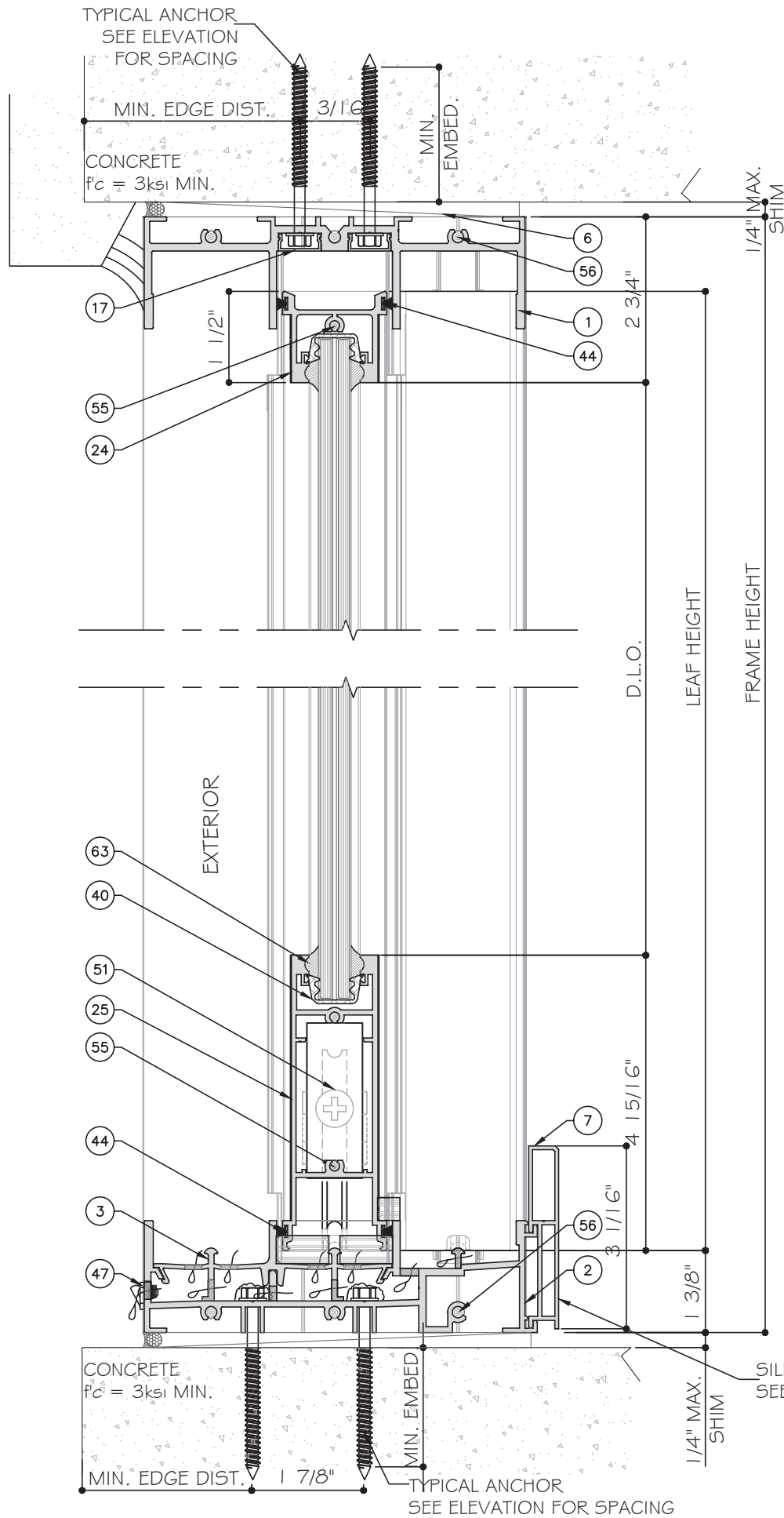
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YONG WANG
FLORIDA REGISTRATION
No. 555983
C.A.N. 555977
STATE OF FLORIDA
PROFESSIONAL ENGINEER
October 23rd, 2024

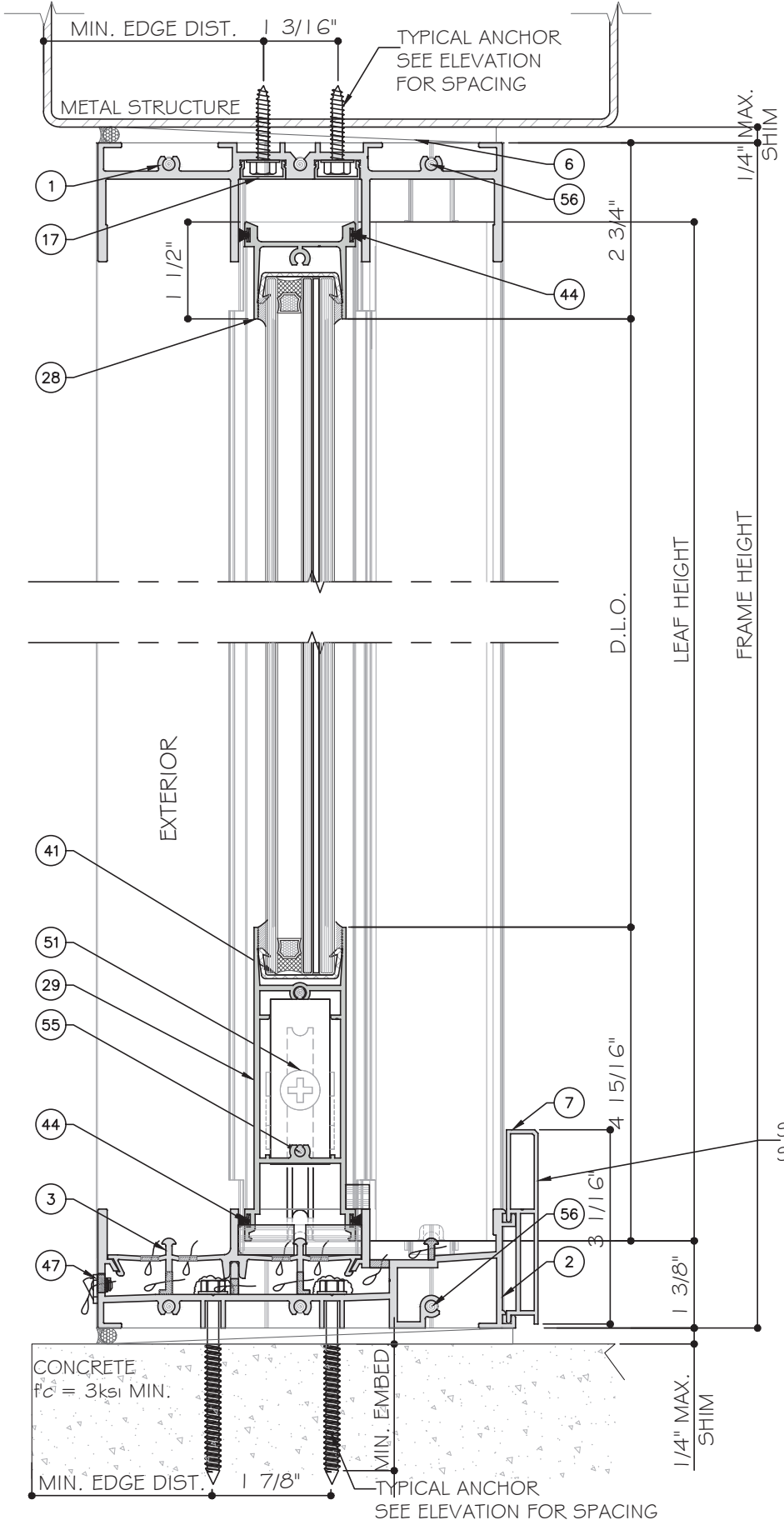
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Drawing No. AD16-29
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K2	10.08.2024	James	REVISION



3
D2
DETAIL

4
D2
DETAIL



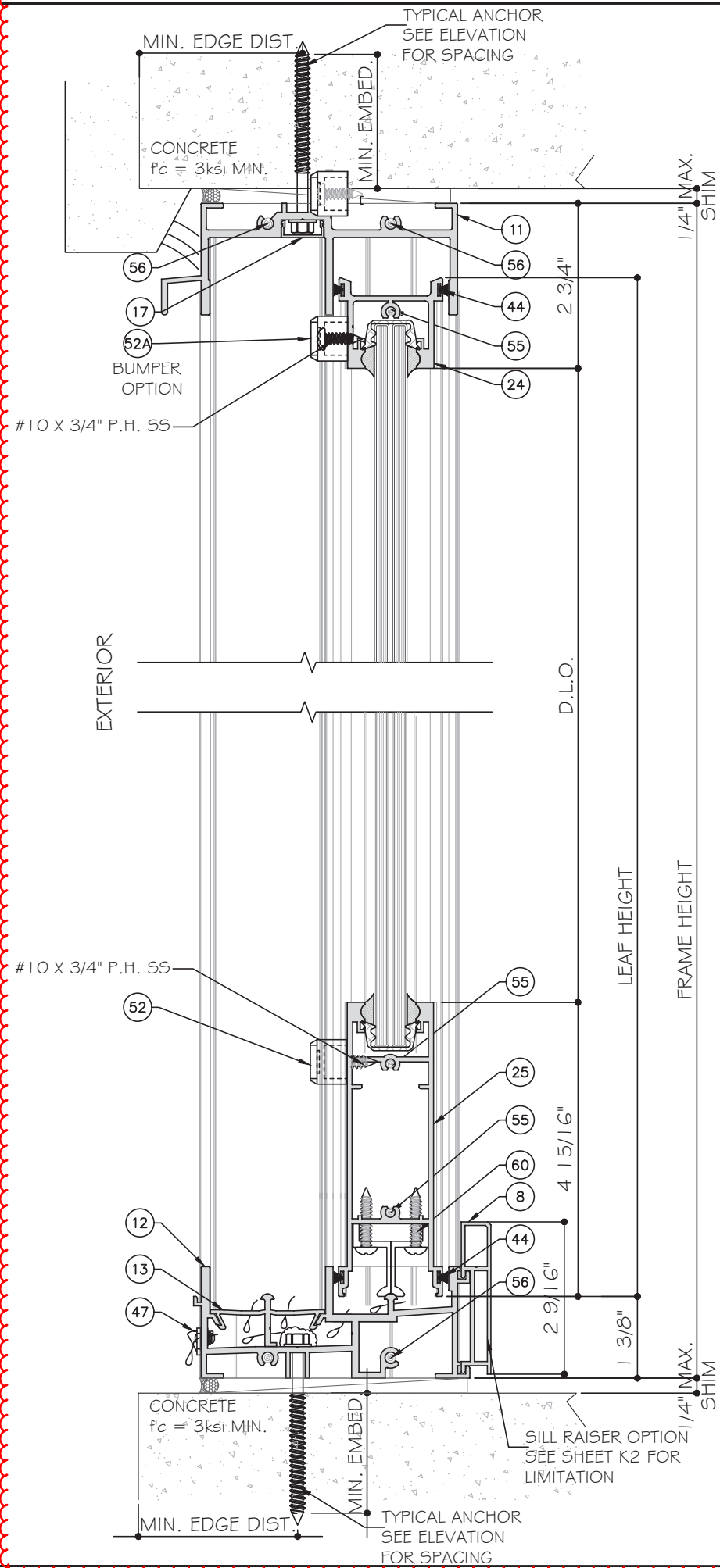
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D2
DETAIL
OPTION

4
D2
DETAIL
OPTION



THREE (3) TRACK DOOR DETAILS

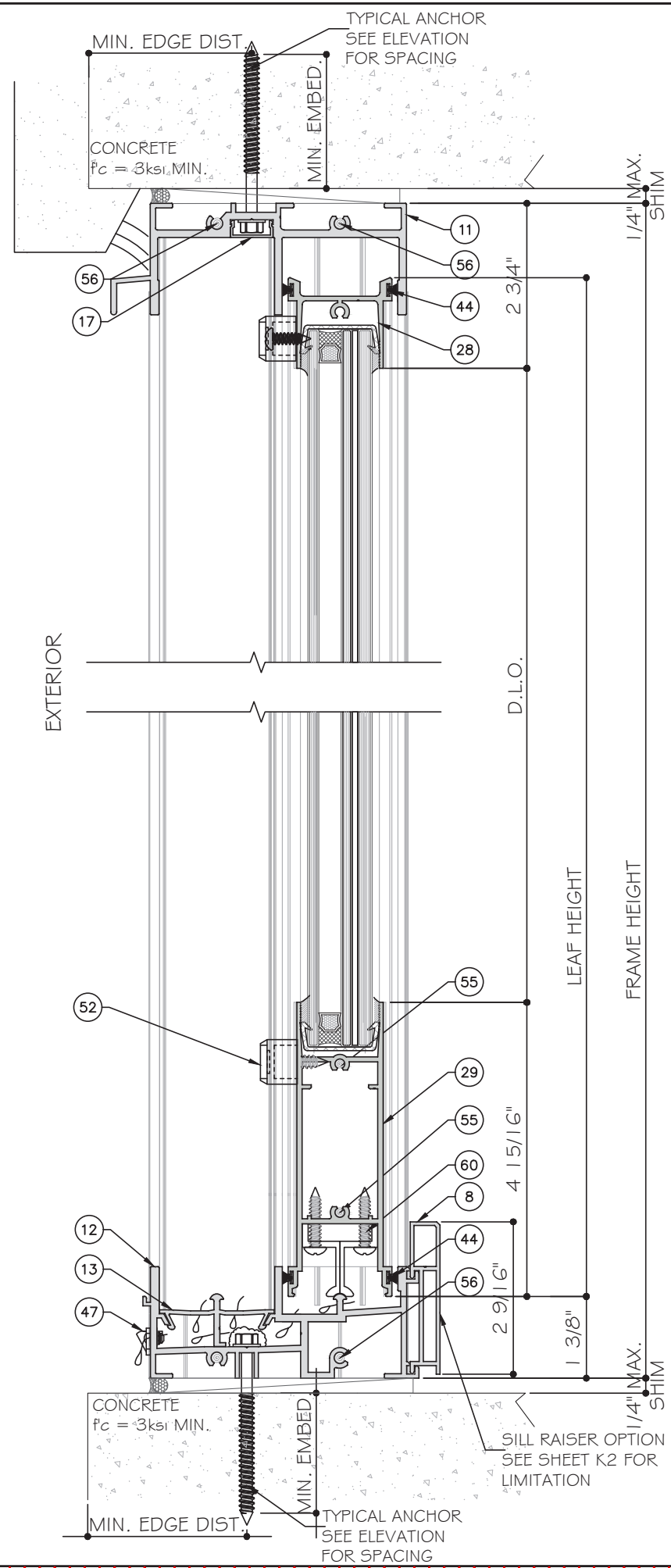
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5
D3
DETAIL

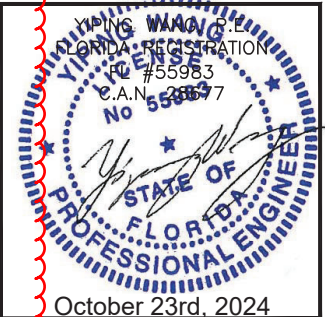
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DETAIL

TWO (2) TRACK DOOR DETAILS

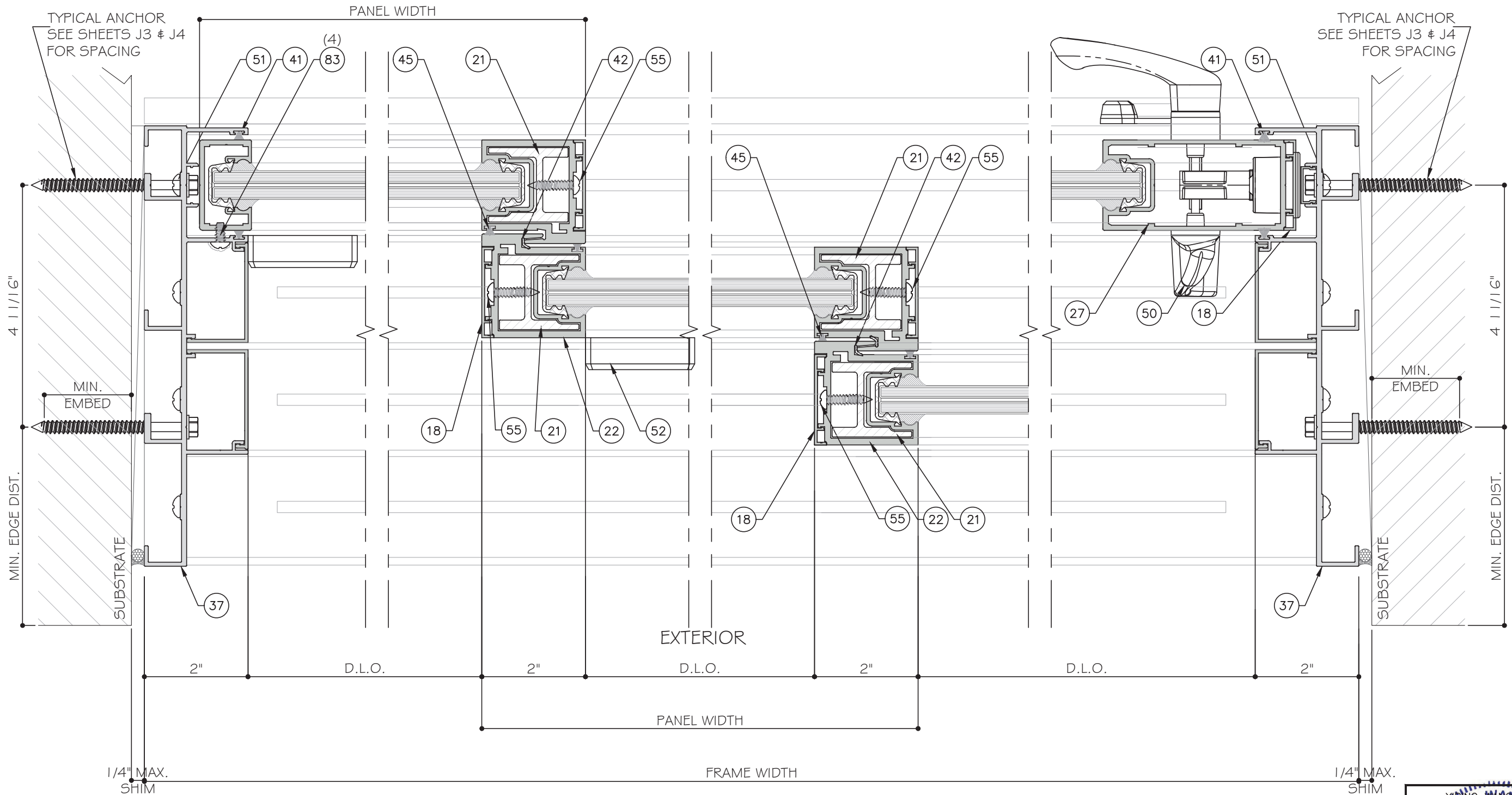


5
D3
DETAIL
OPTION

6
D3
DETAIL
OPTION



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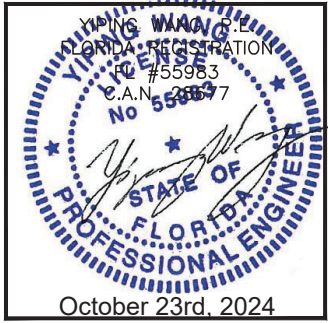
7
D4
DETAIL

8
D4
DETAIL

9
D4
DETAIL

7A
D4
DETAIL

FOUR (4) TRACK DOOR DETAILS



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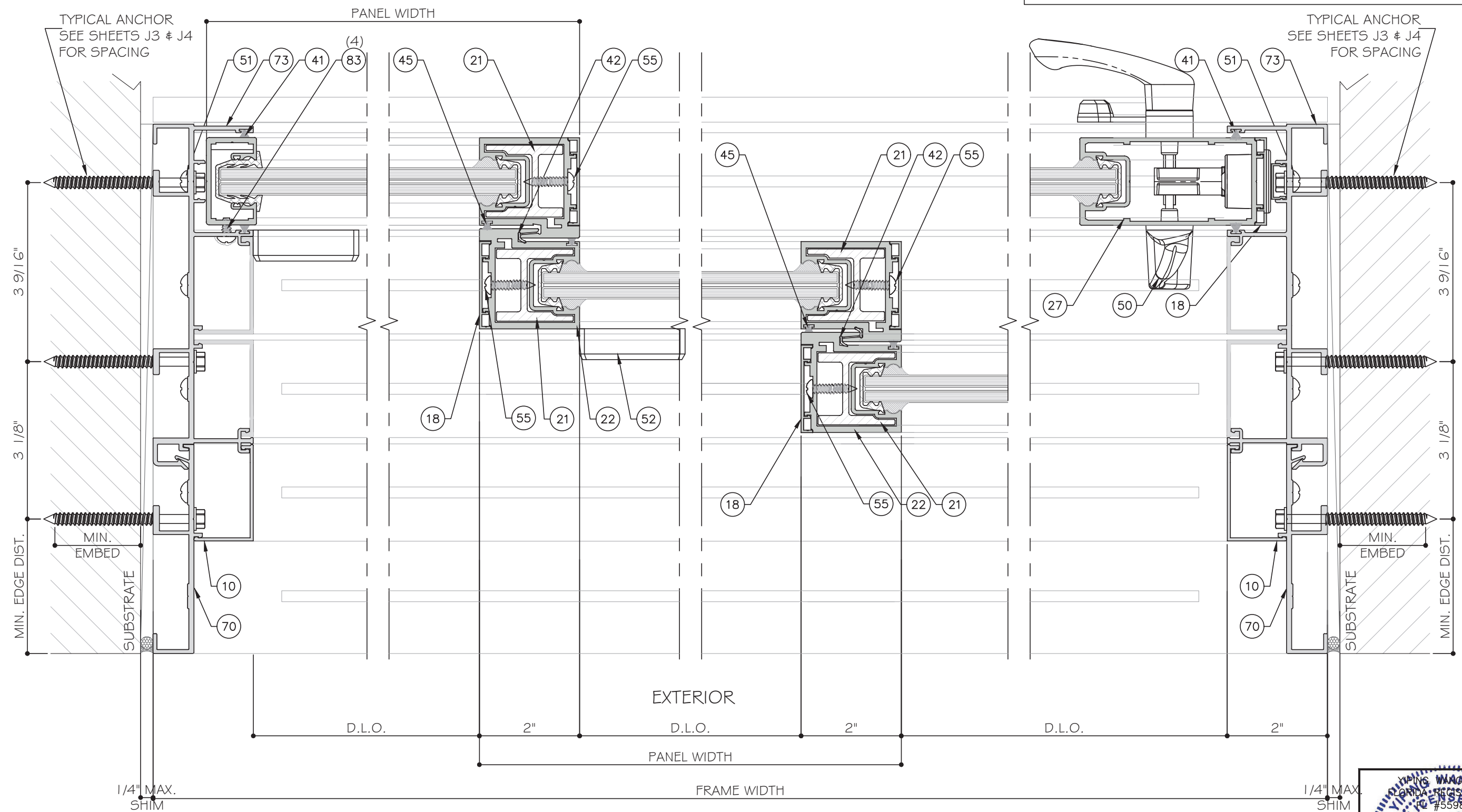
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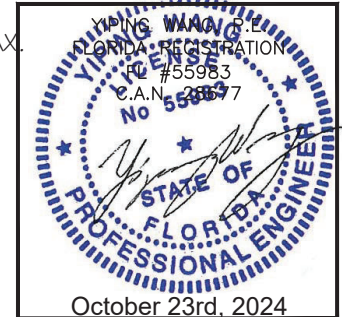
7
D4.1
DETAIL

8
D4.1
DETAIL

9
D4.1
DETAIL

7A
D4.1
DETAIL

FIVE (5) TRACK DOOR DETAILS



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10.08.2024

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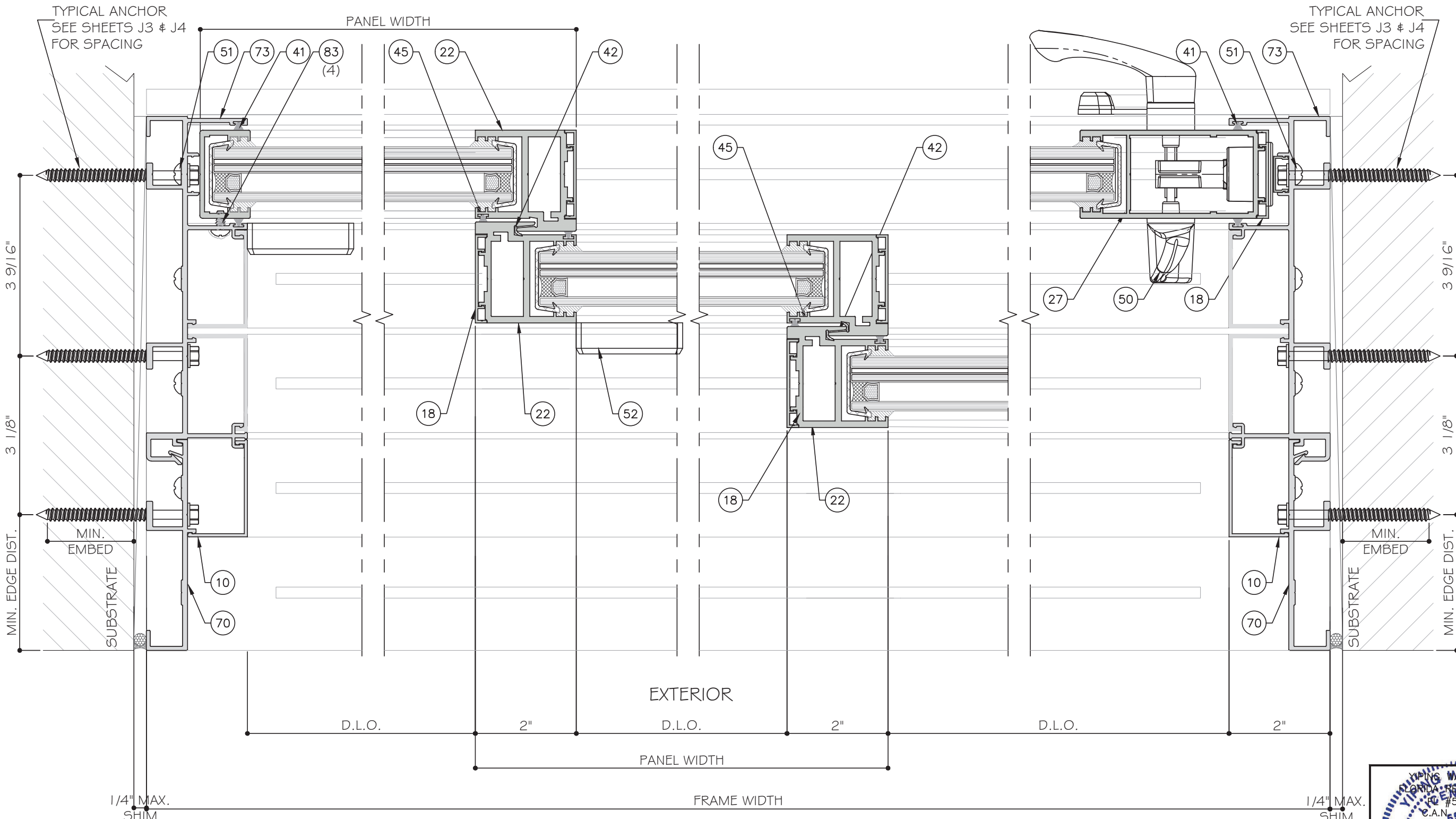
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D4.1

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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

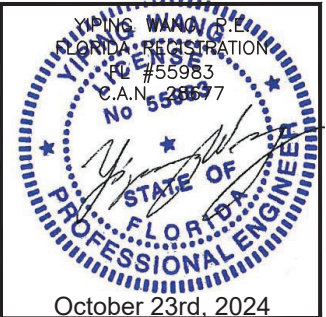
13 DETAIL
D4.2

14 DETAIL
D4.2

15 DETAIL
D4.2

13A DETAIL
D4.2

FIVE (5) TRACK DOOR DETAILS



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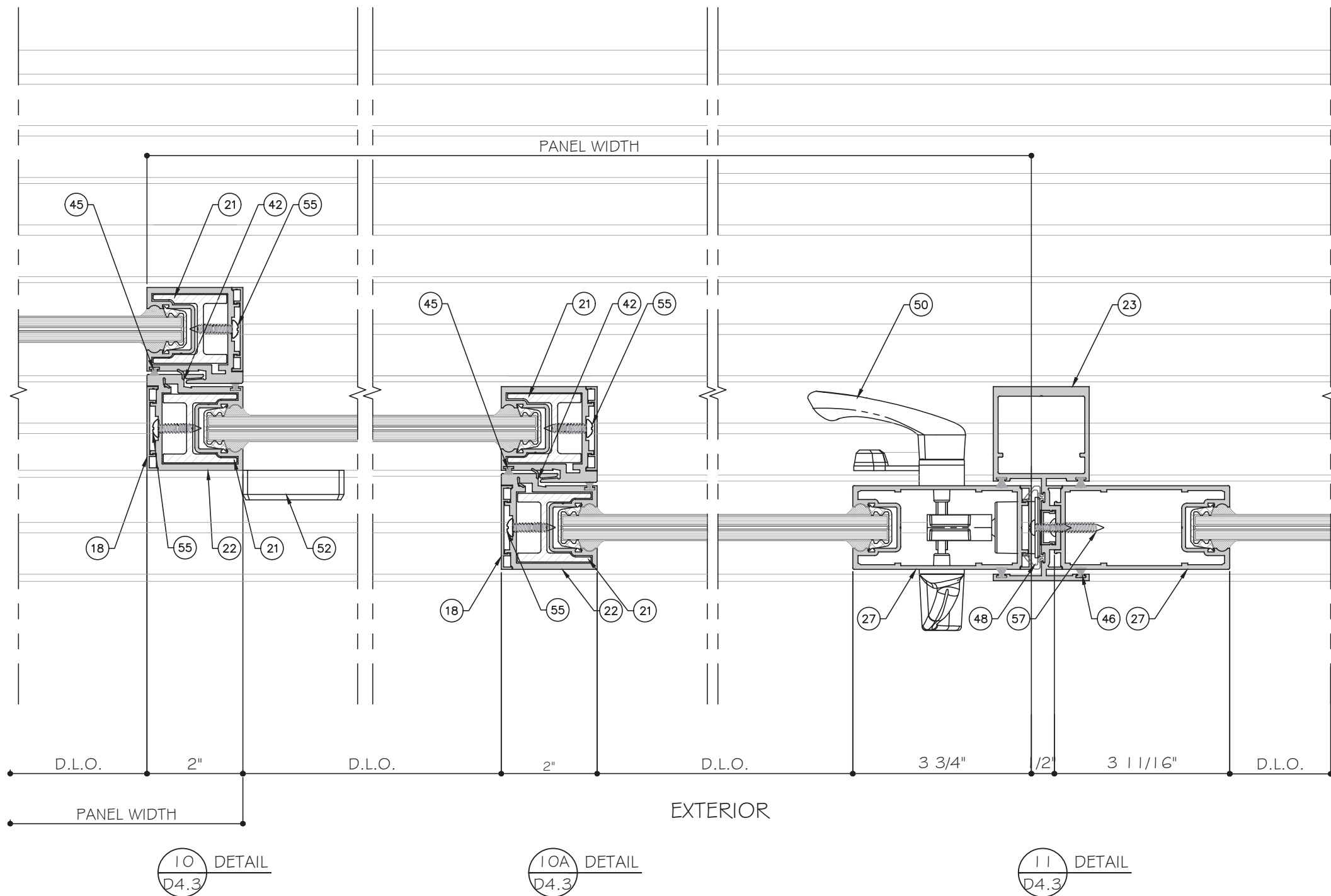
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D4.2

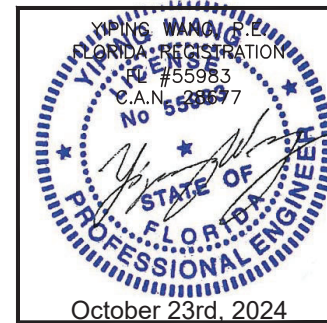
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

FIVE (5) TRACK DOOR DETAILS



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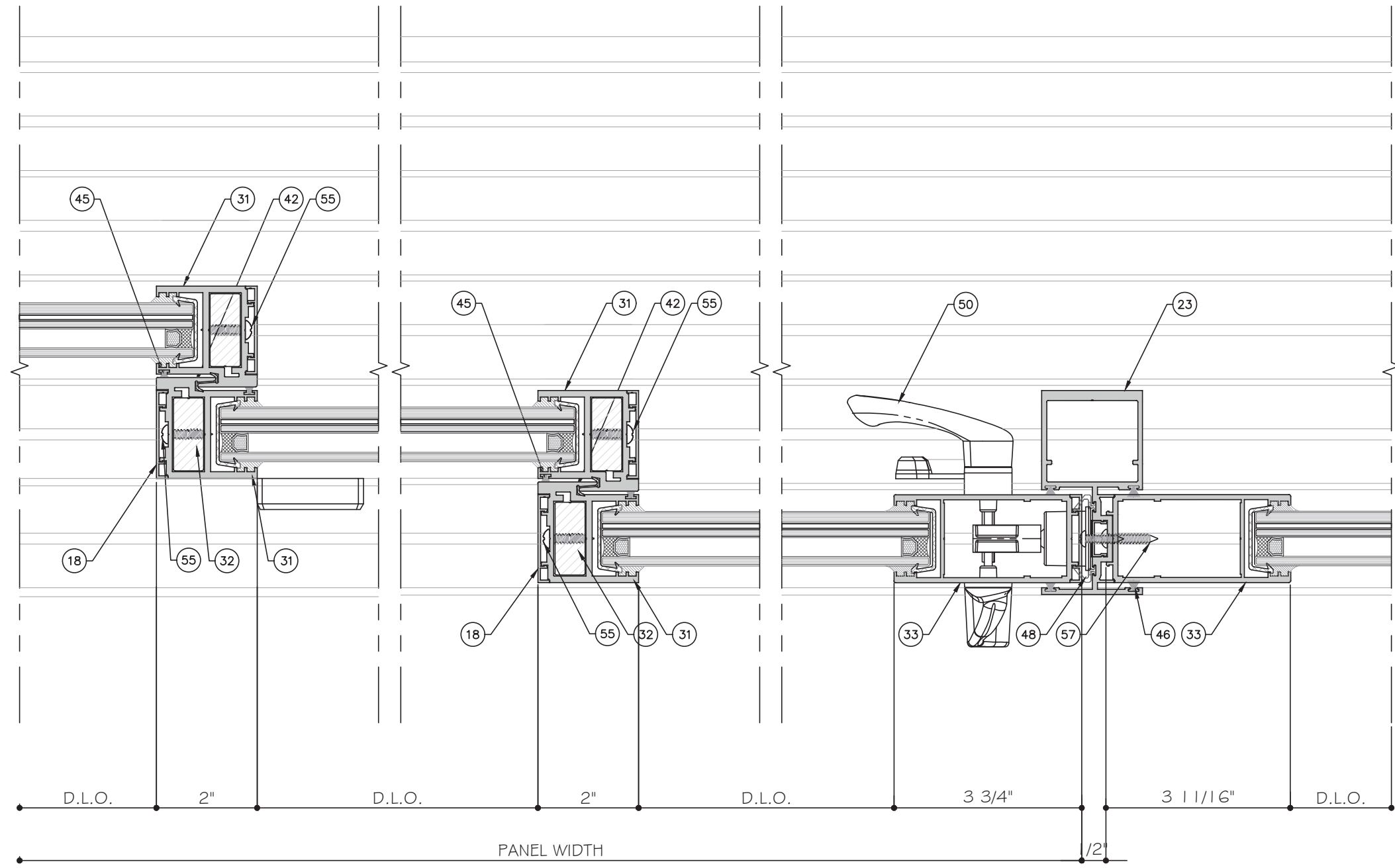
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D4.3

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16 DETAIL
D4.4

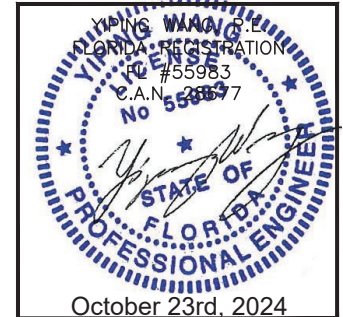
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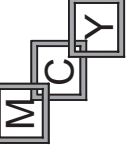
17 DETAIL
D4.4

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LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

EXTERIOR

FIVE (5) TRACK DOOR DETAILS





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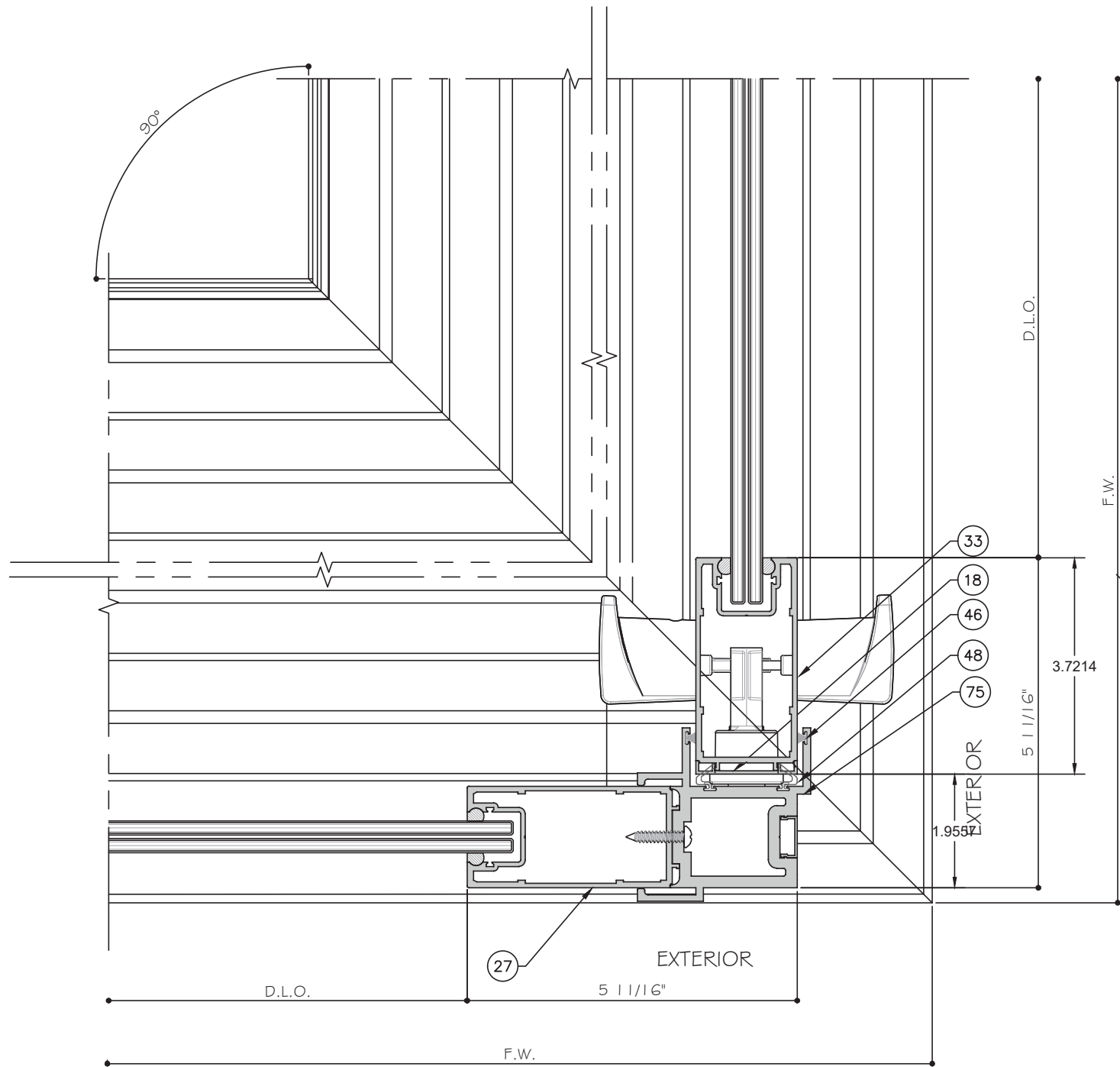
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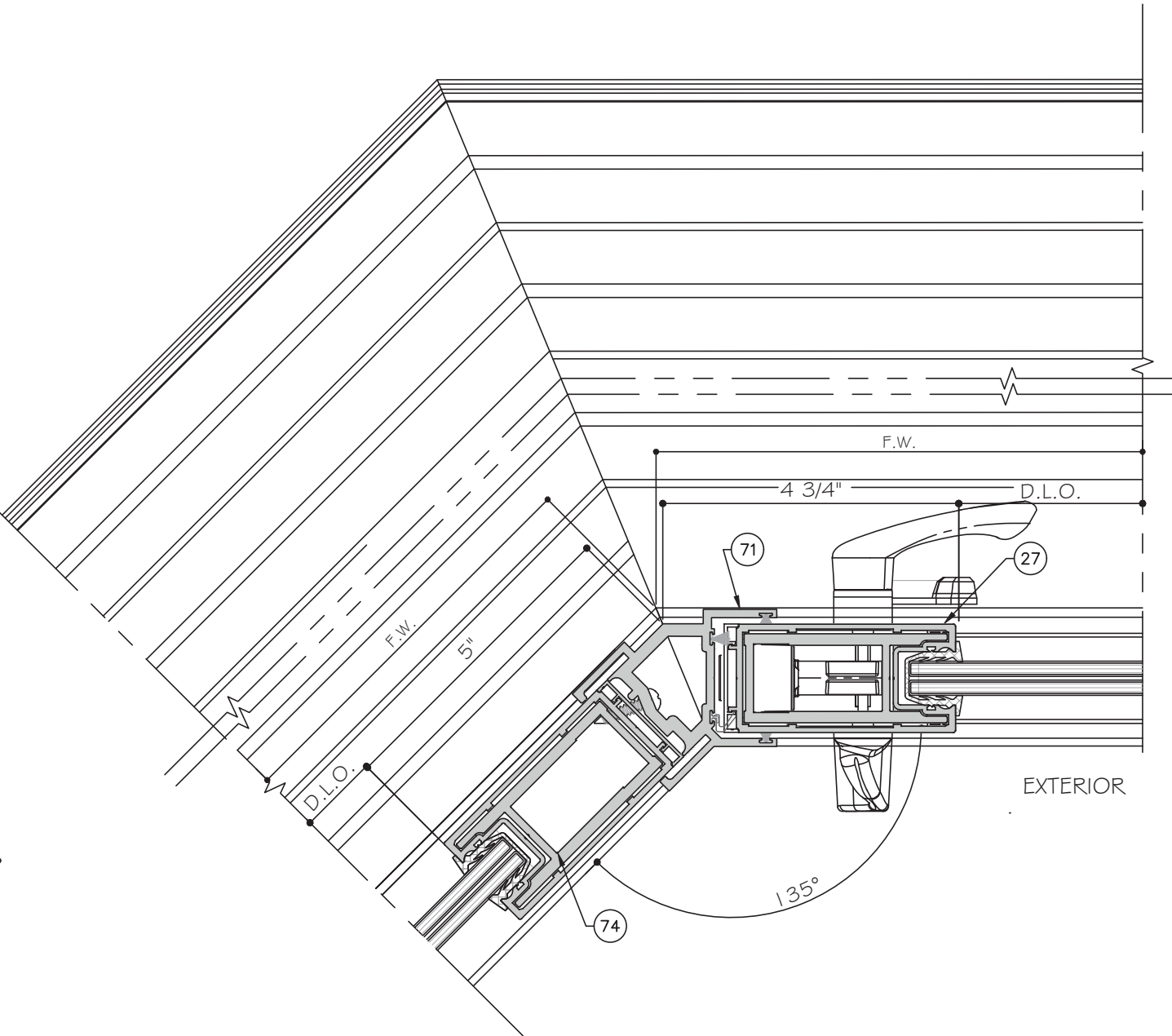
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43 DETAIL
D4.5

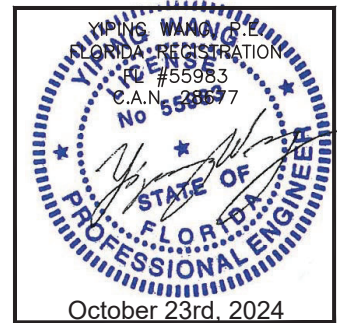


44 DETAIL
D4.5

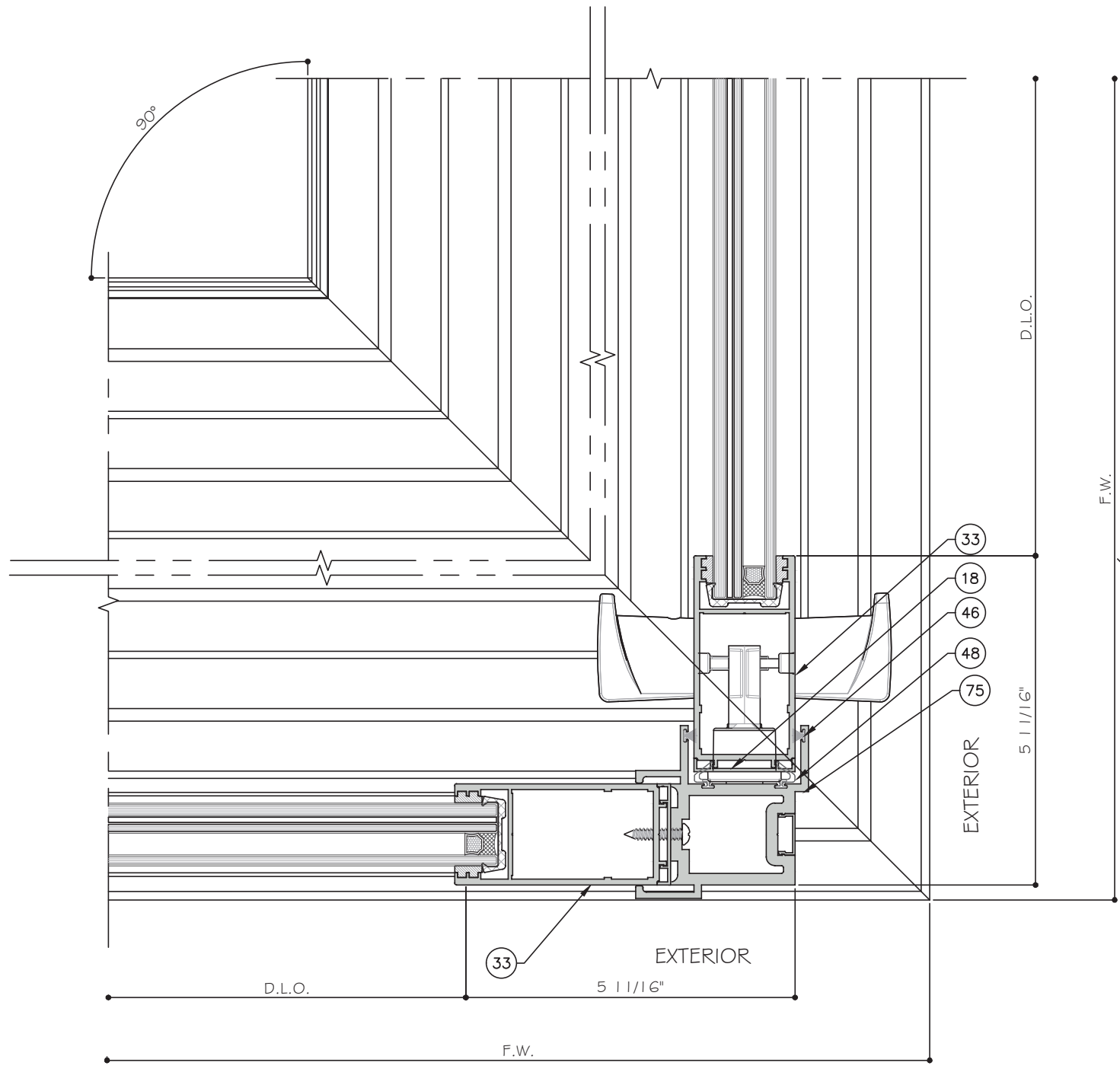
CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

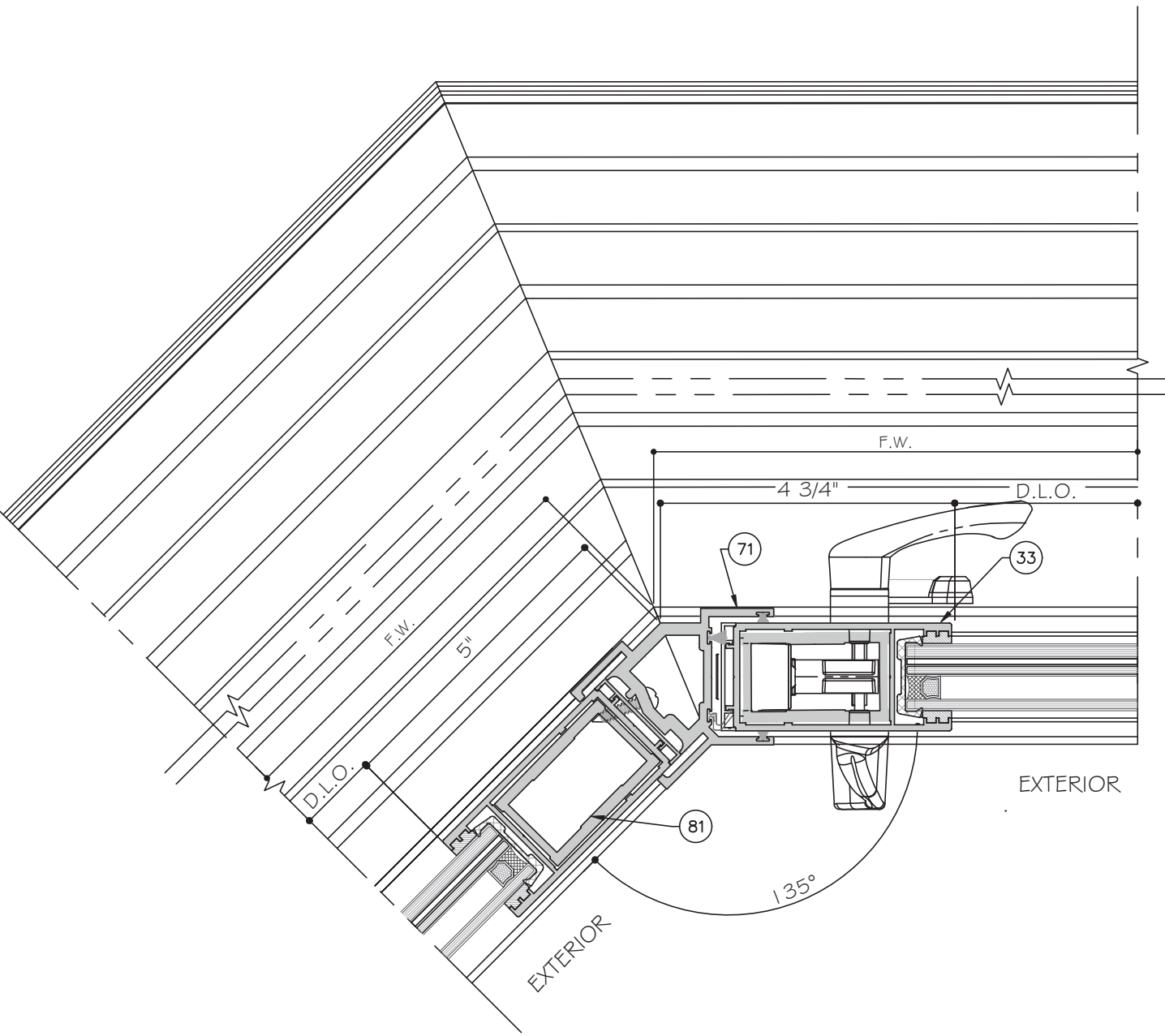
STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT. LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.



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45 DETAIL
D4.6

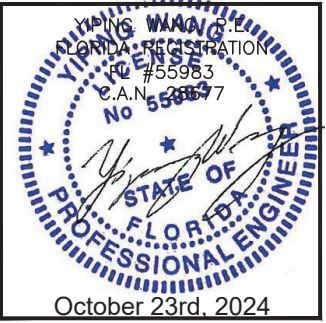


46 DETAIL
D4.6

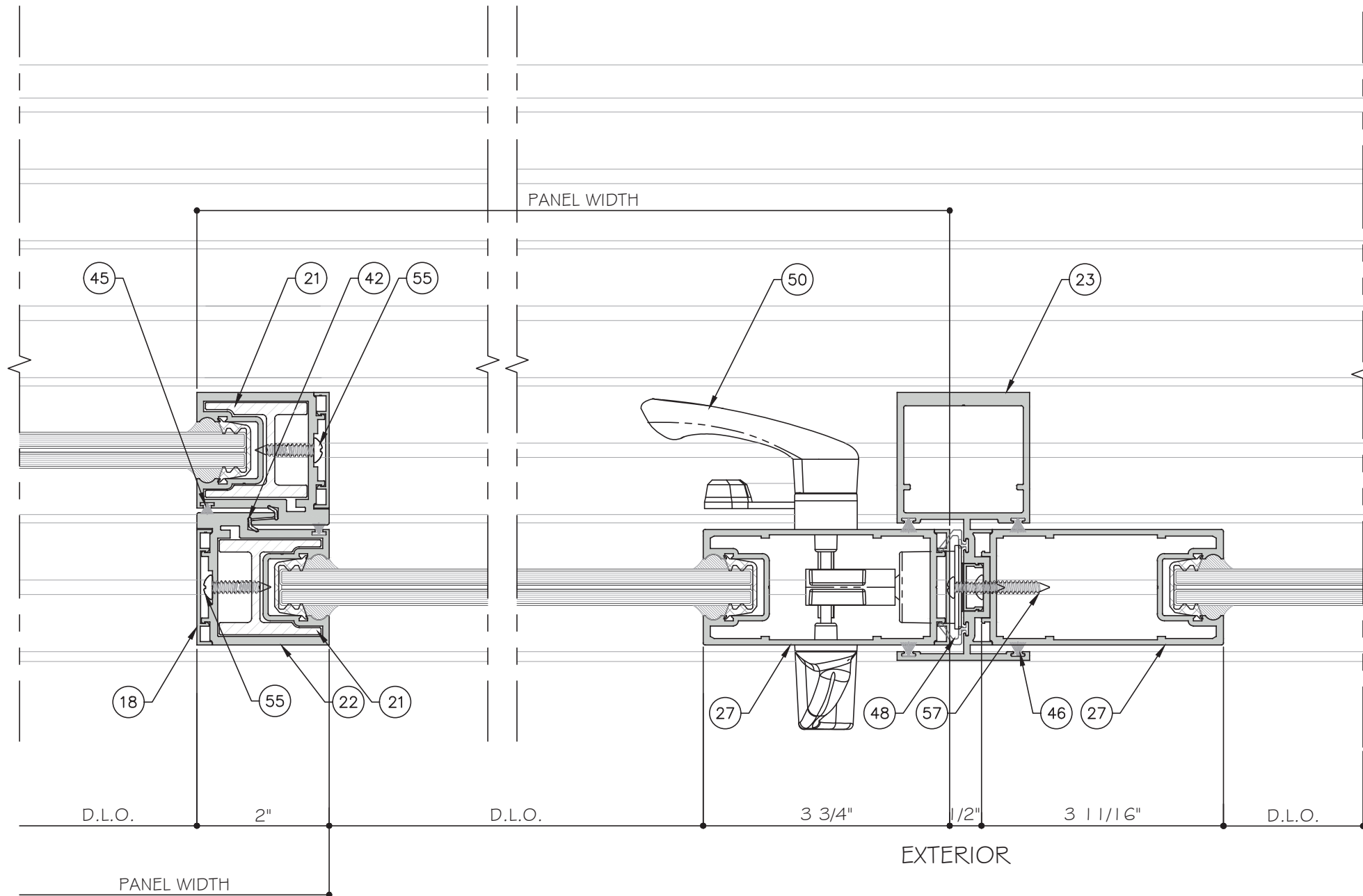
CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT. LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.



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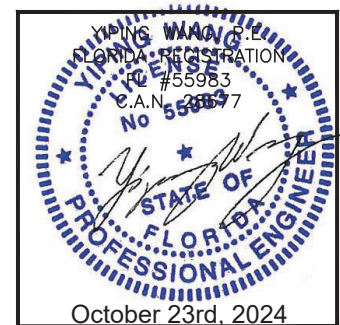


10 DETAIL
D5

11 DETAIL
D5

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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FOUR (4) TRACK DOOR DETAILS



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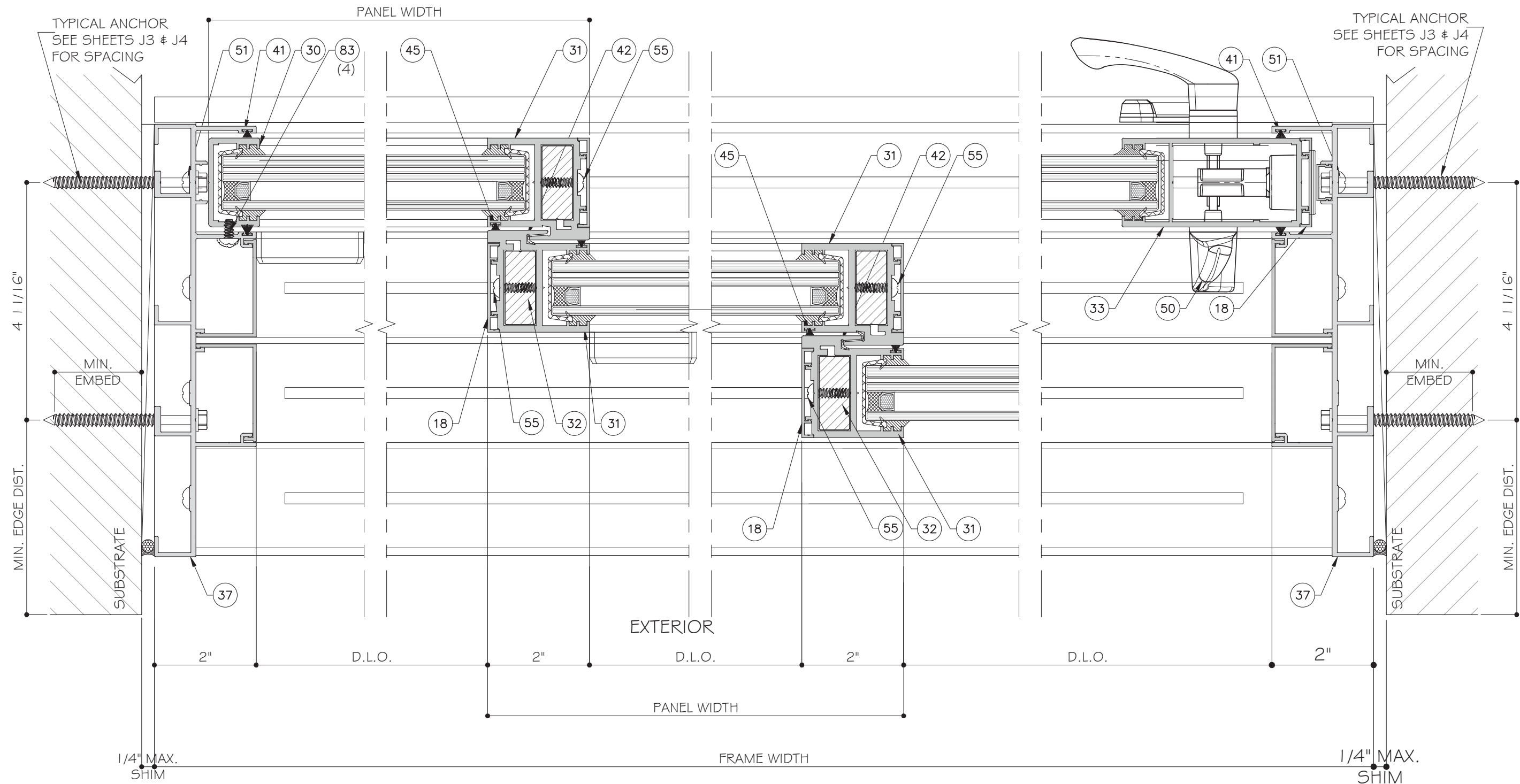
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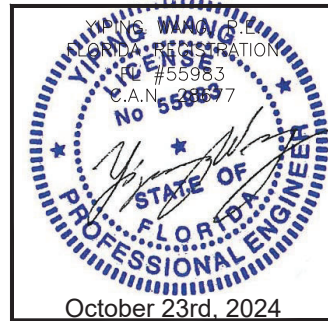
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT. LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

FOUR (4) TRACK DOOR DETAILS



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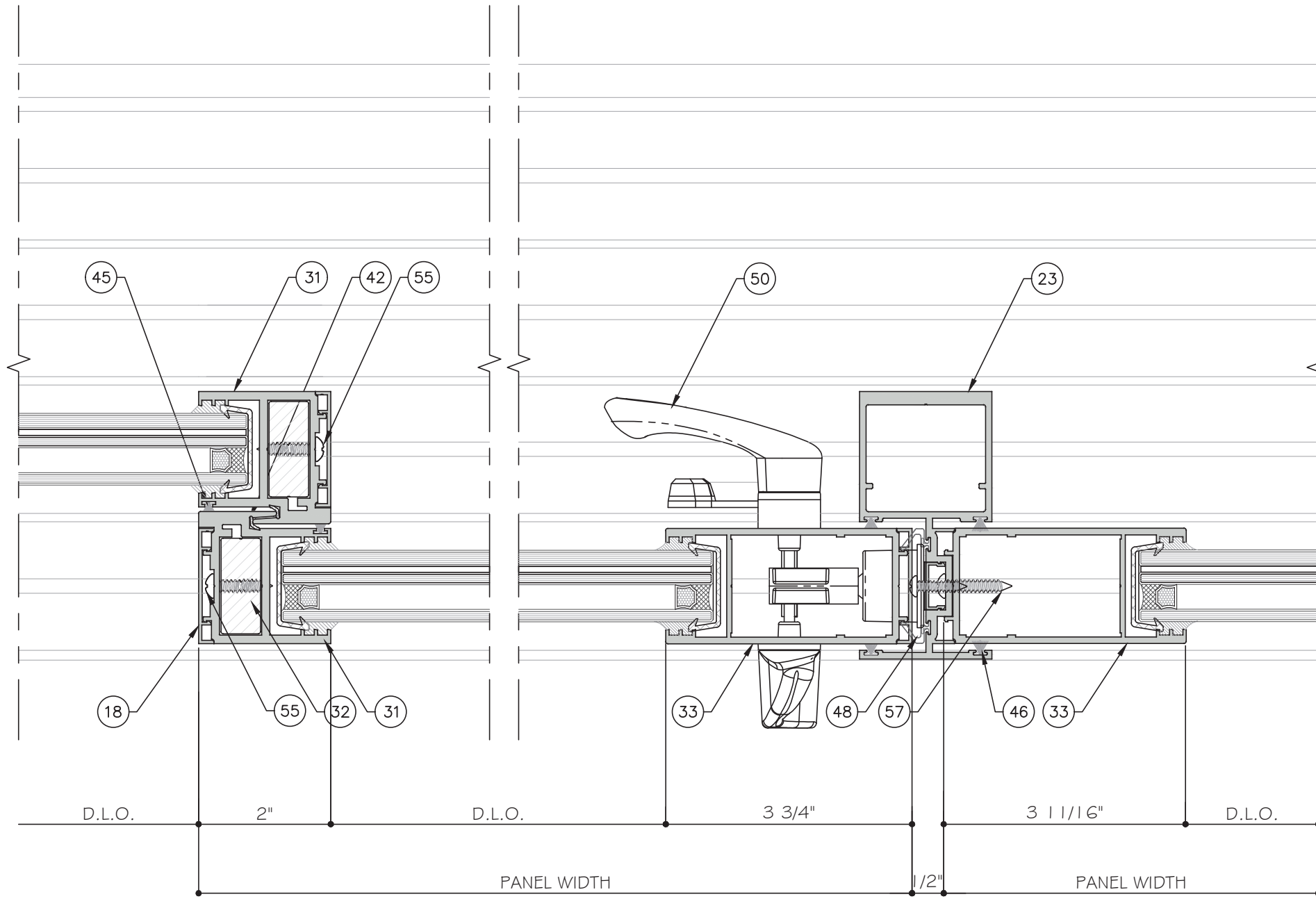
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D6

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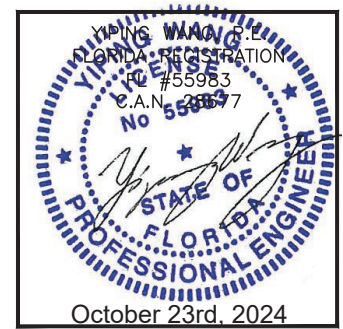


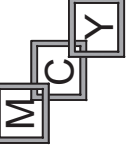
16
D7

17
D7

FOUR (4) TRACK DOOR DETAILS

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
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LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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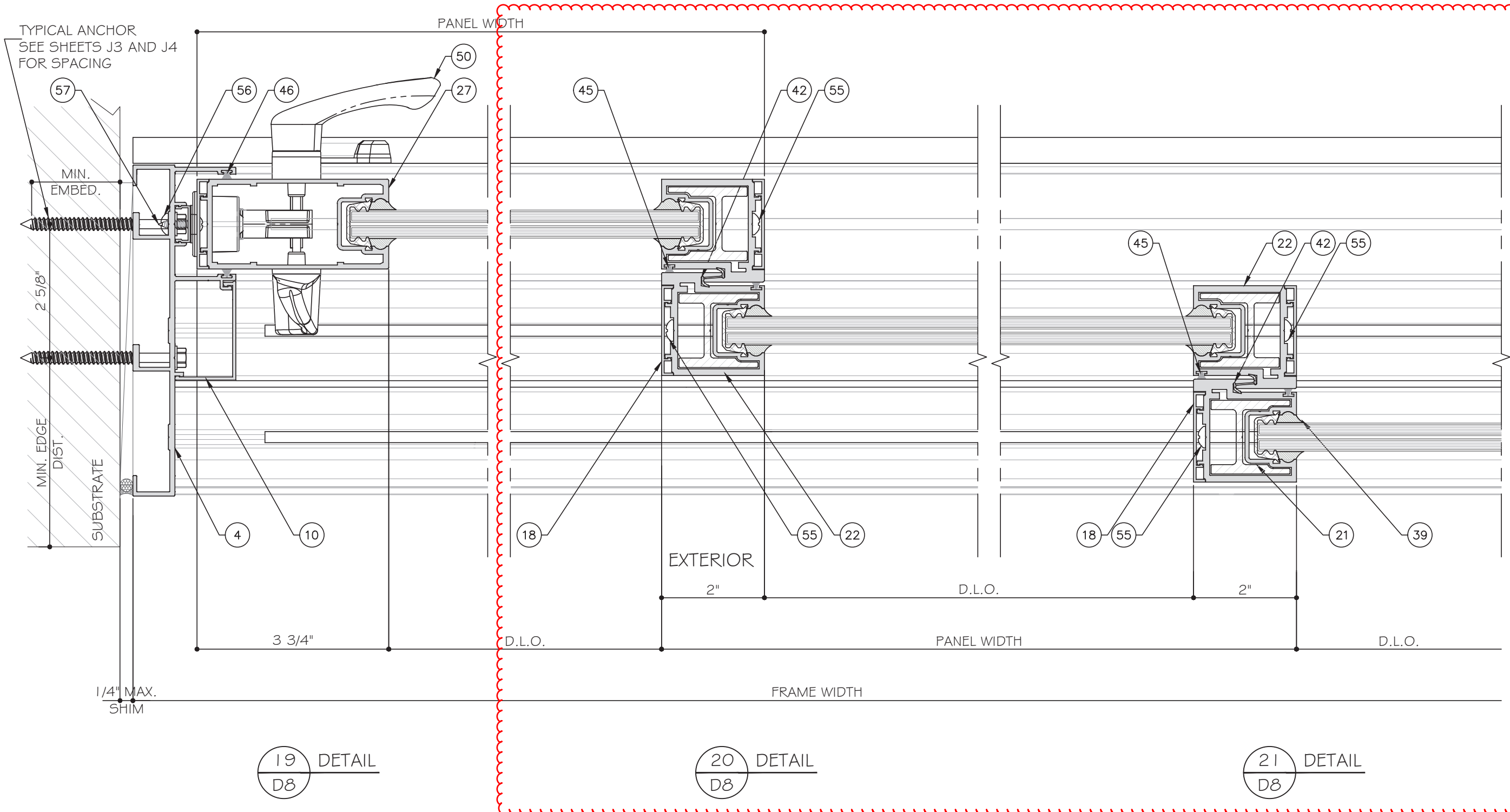
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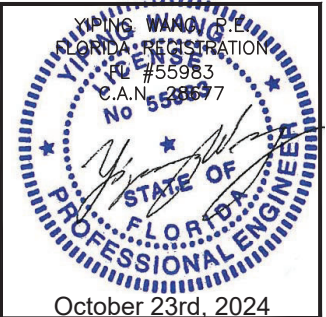
Sheet No.
D7

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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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THREE (3) TRACK DOOR DETAILS



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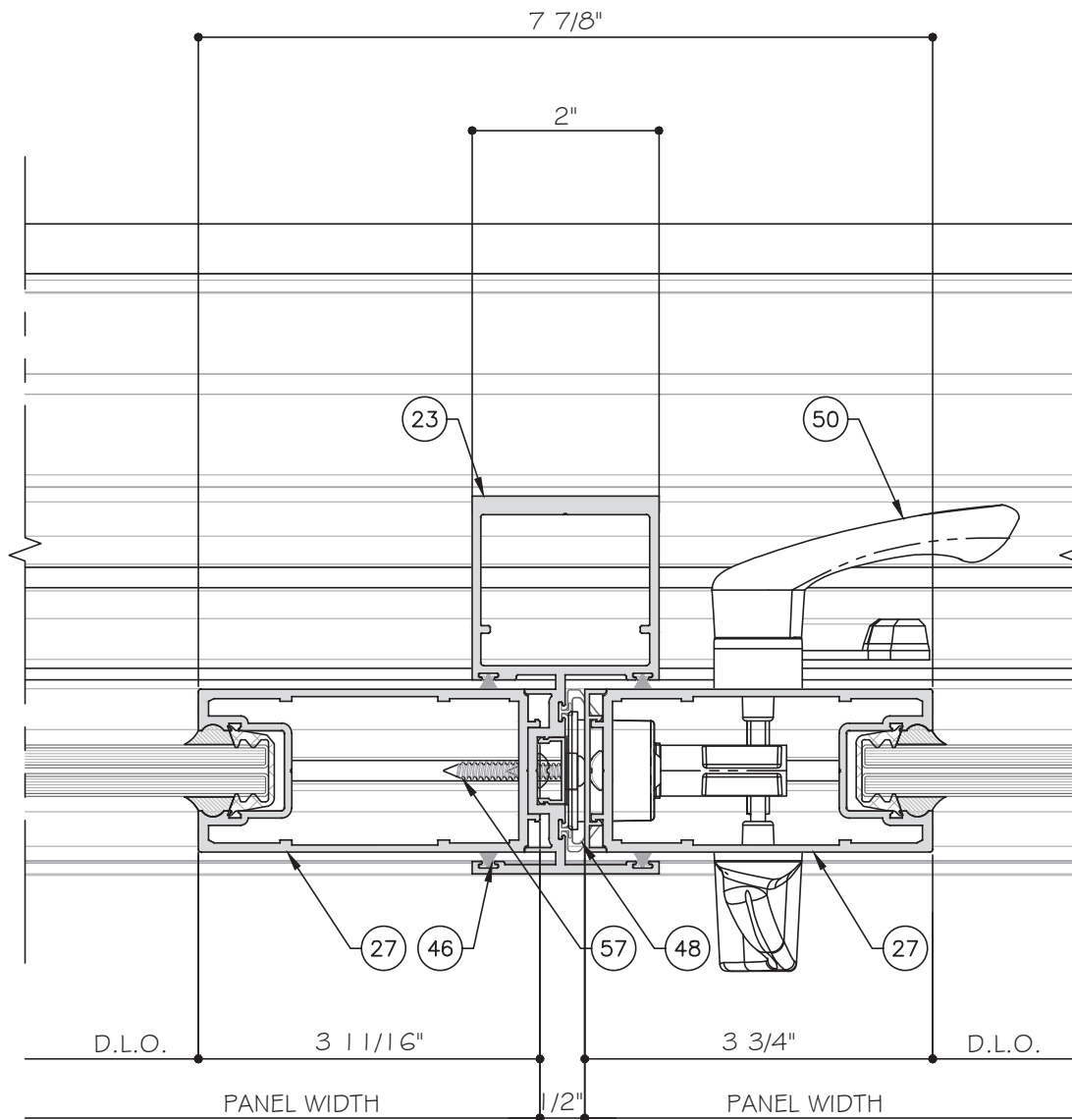
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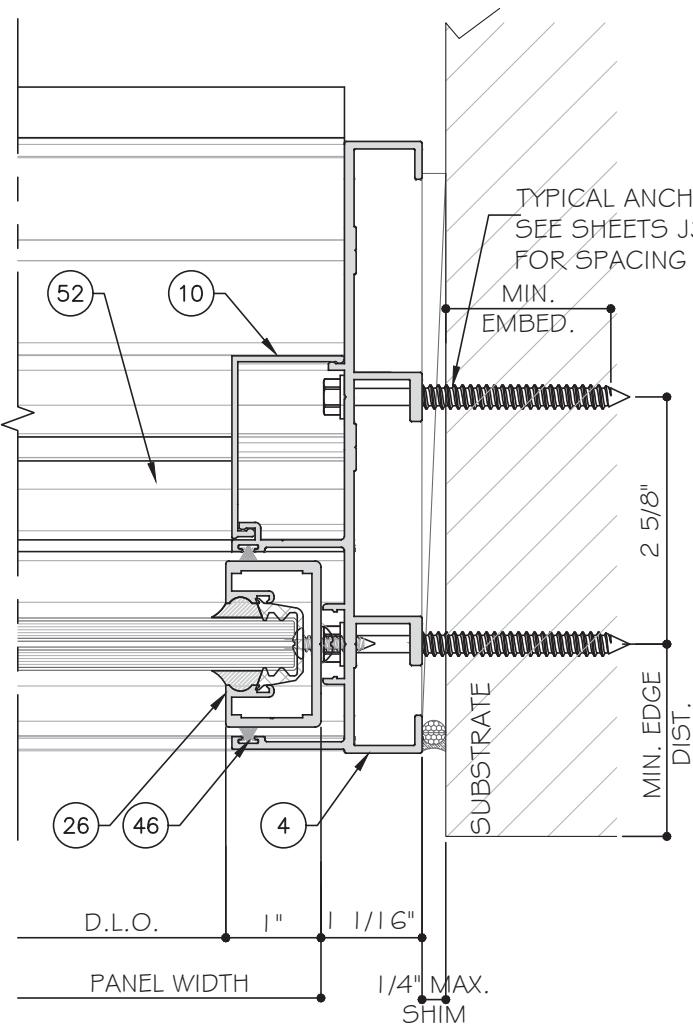
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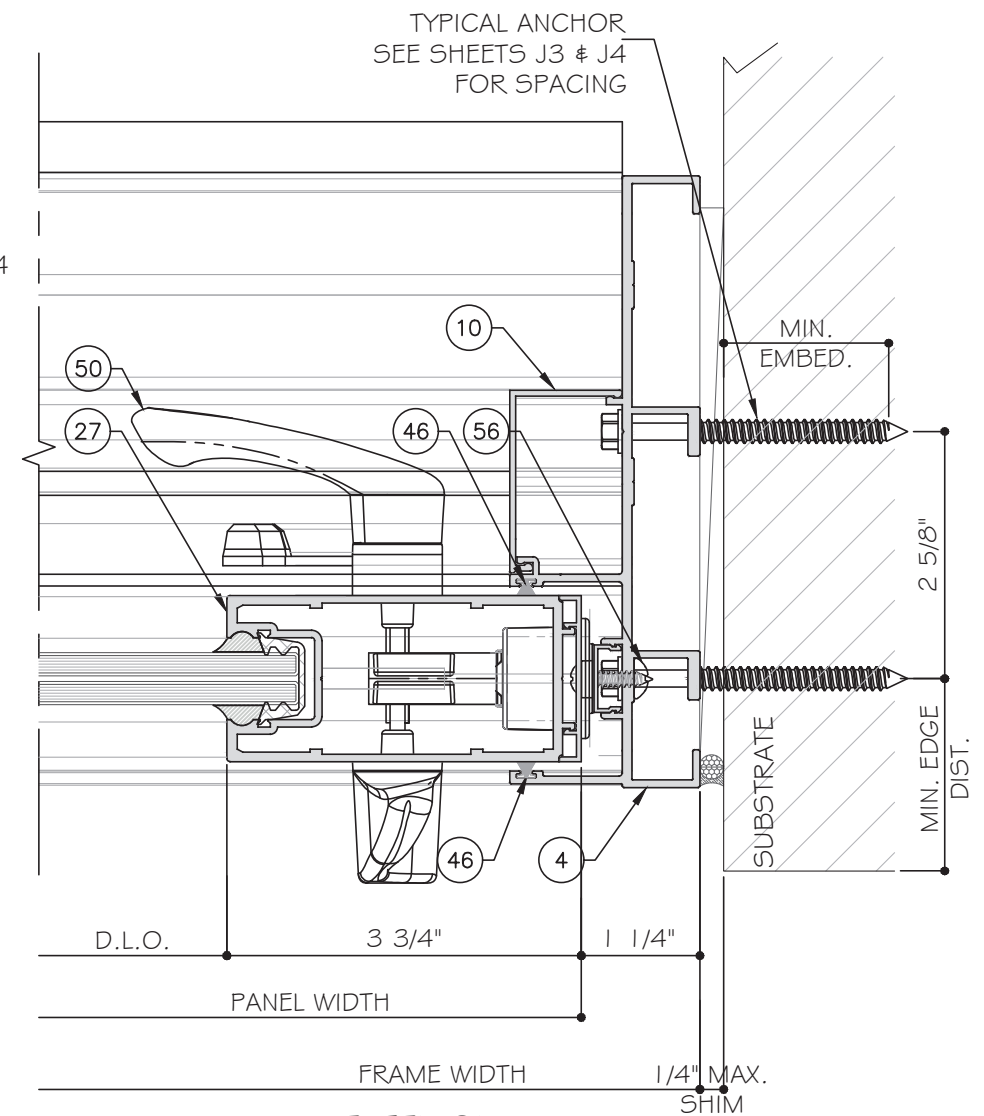


EXTERIOR

22
D9
DETAIL



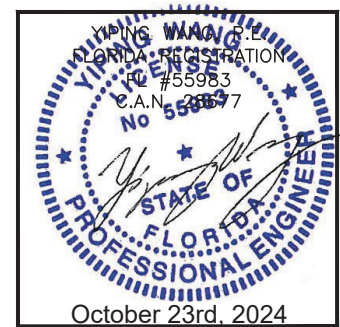
23
D9
DETAIL



24
D9
DETAIL

LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

THREE (3) TRACK DOOR DETAILS



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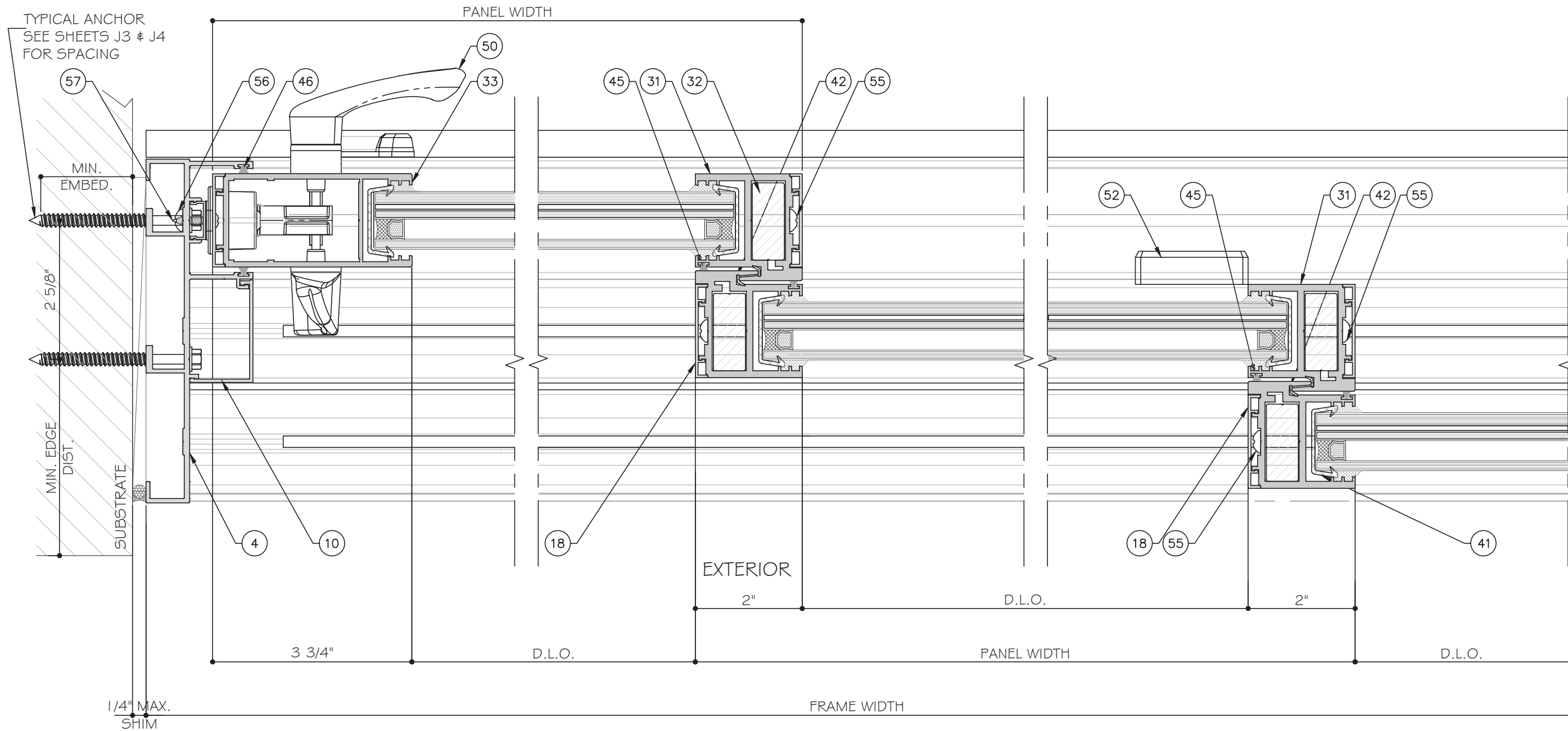
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D9

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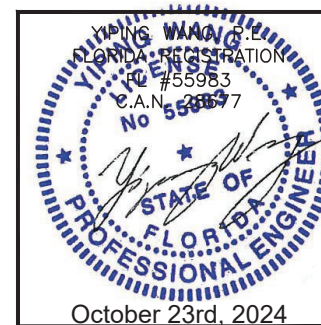
25
DIO

26
DIO

27
DIO

STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
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THREE (3) TRACK DOOR DETAILS



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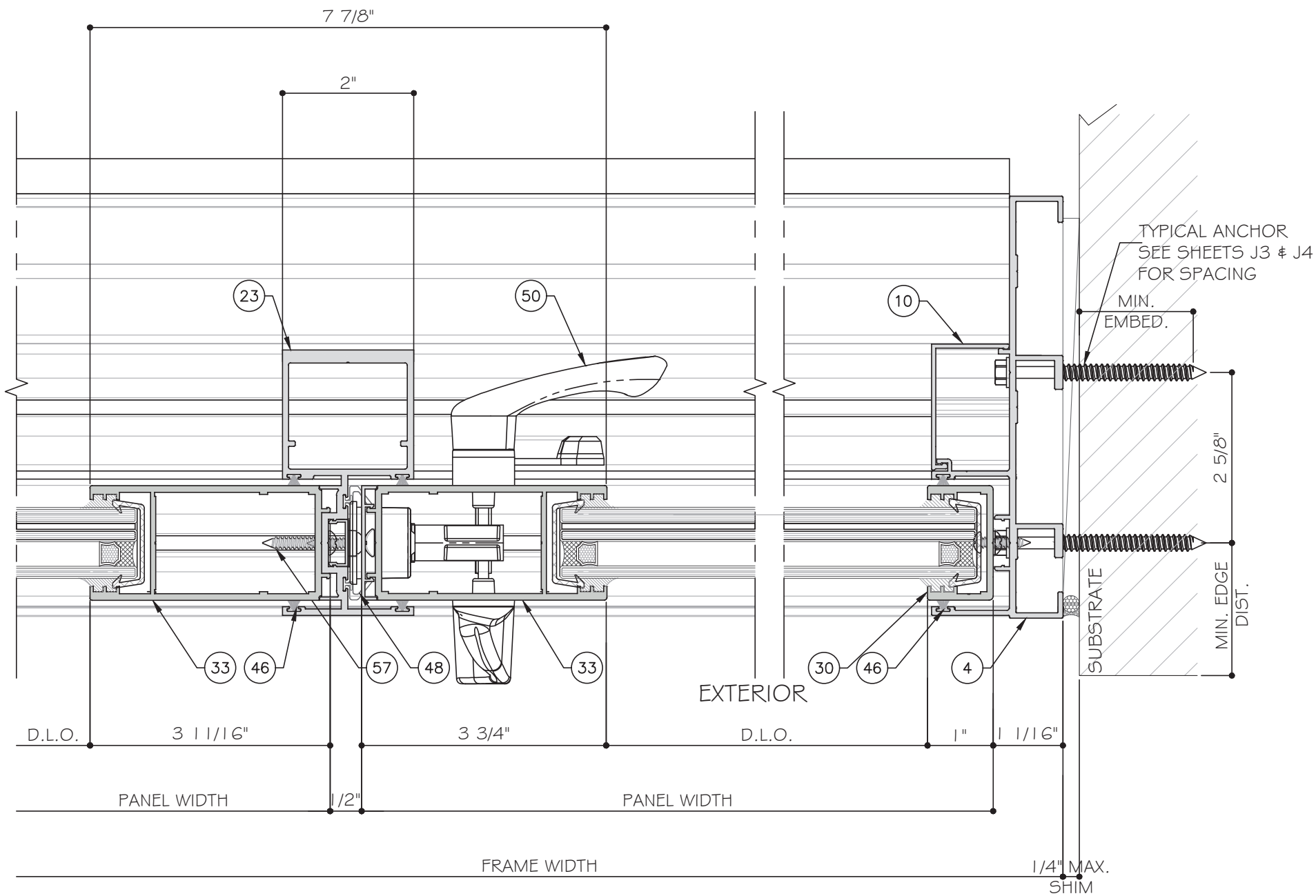
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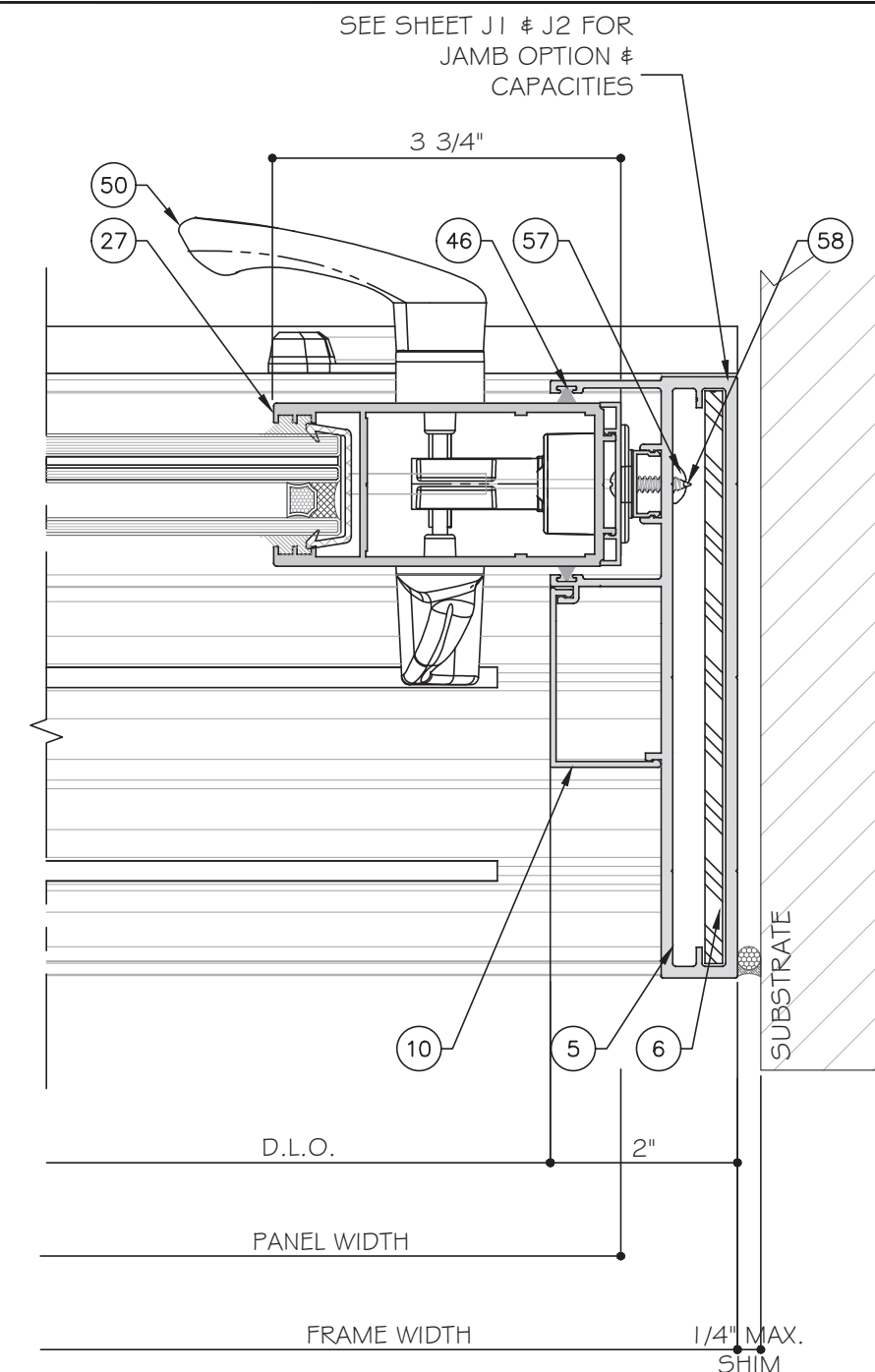


28
D11
DETAIL

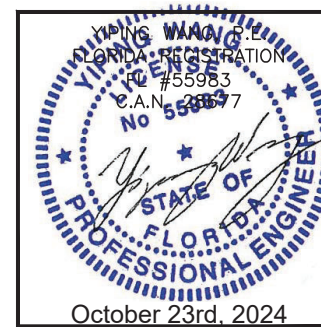
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D11
DETAIL

LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

THREE (3) TRACK DOOR DETAILS



FREESTANDING JAMB FOR 3 TRACKS OPTION



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10653 NE Quaybridge Ct.
Miami, FL 33138
TEL: (305) 624-7775

Rev	Date	Drawn By	Description
1	10.08.2024	James	

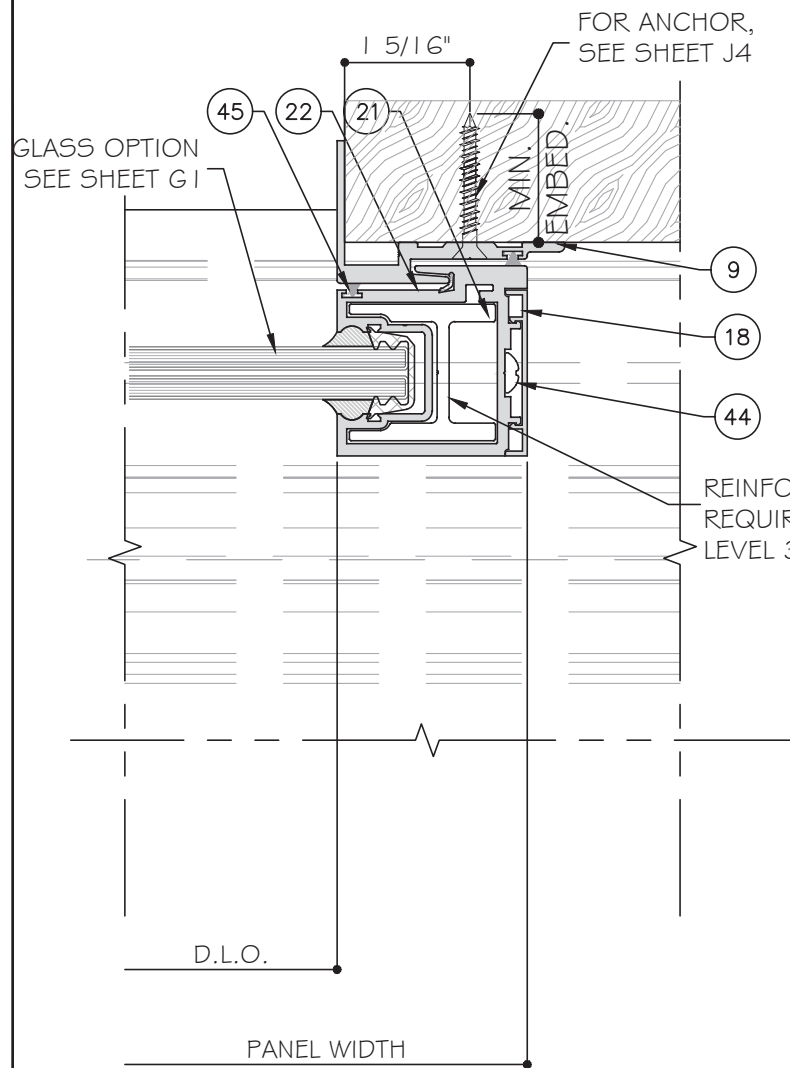
Drawn Date: 10.08.2024

Scale:

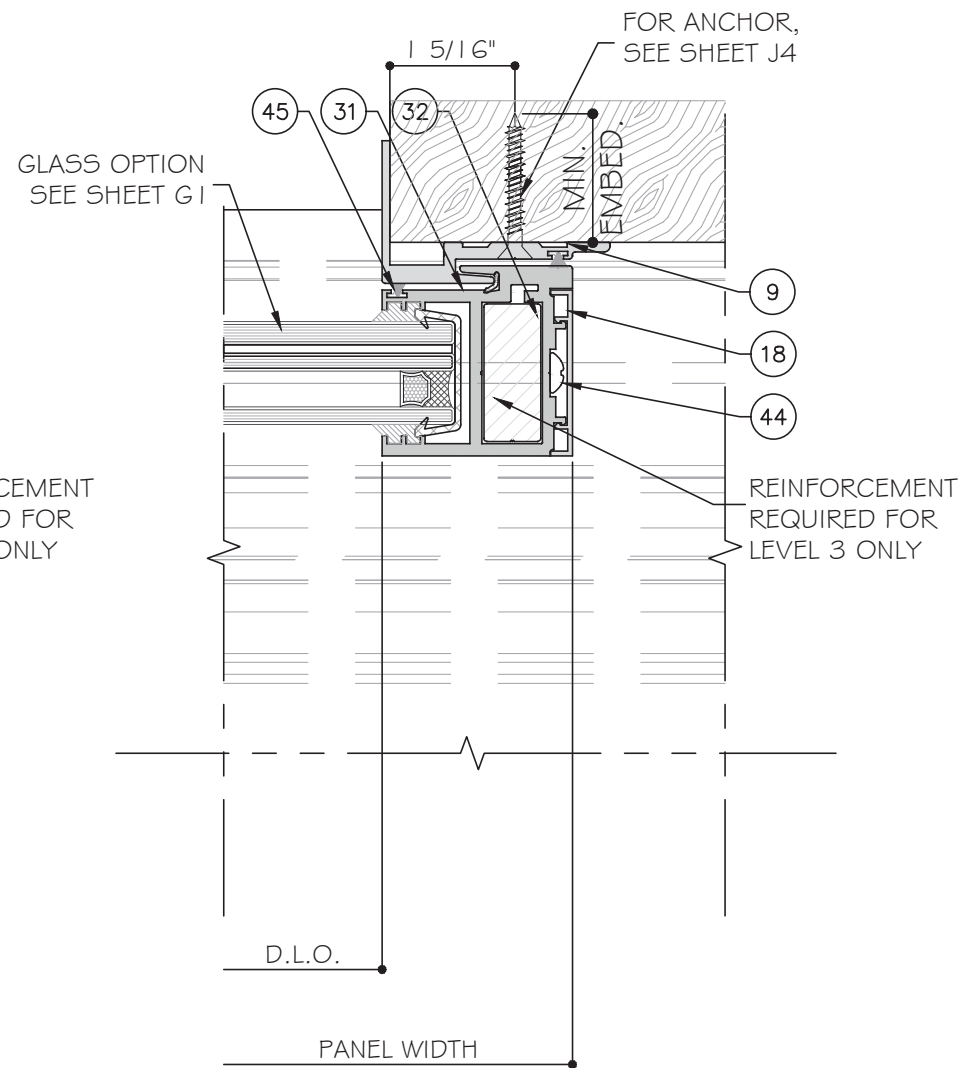
DRAWING NO.: AD16-29

Sheet No.: D11

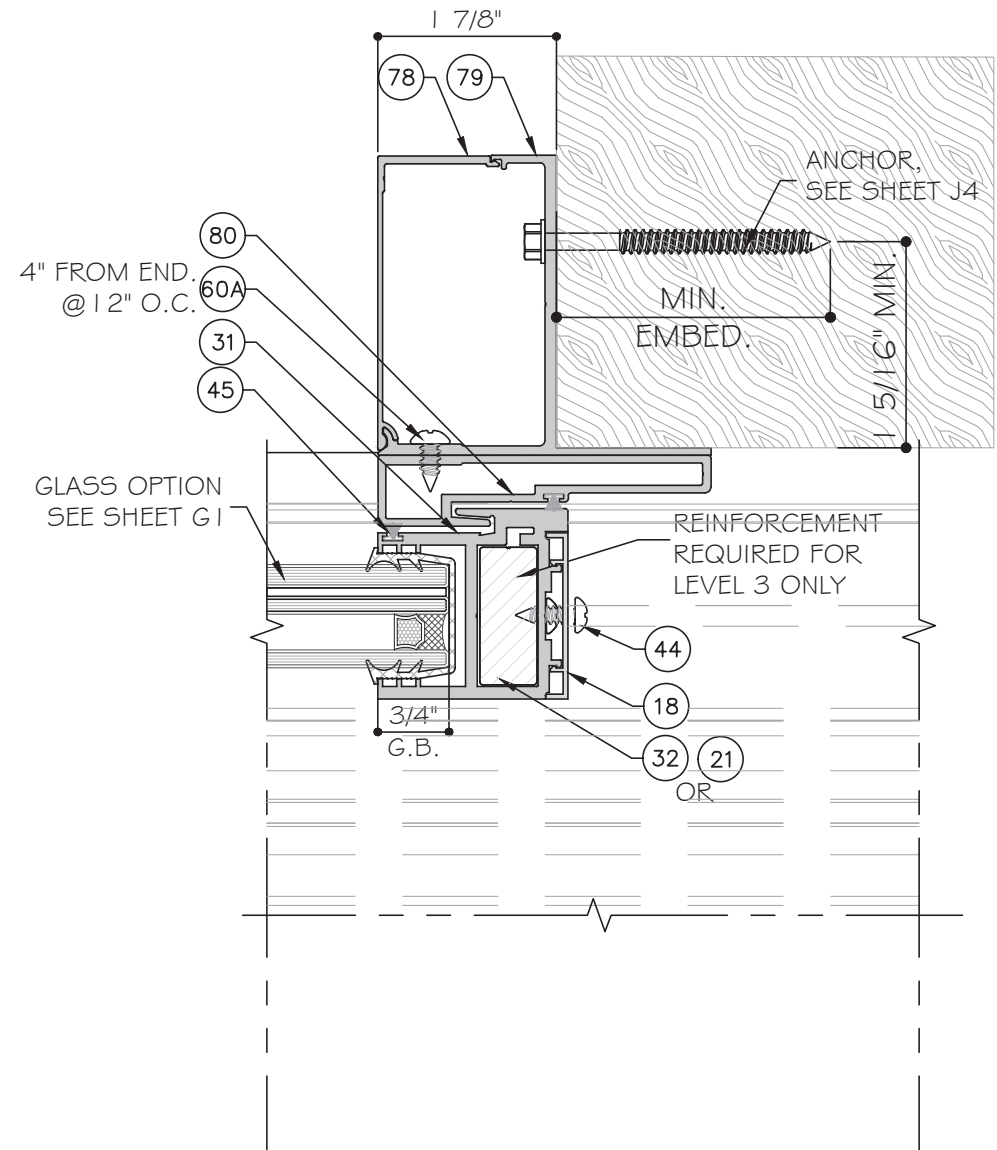
October 23rd, 2024



30
D12
DETAIL
DETAIL

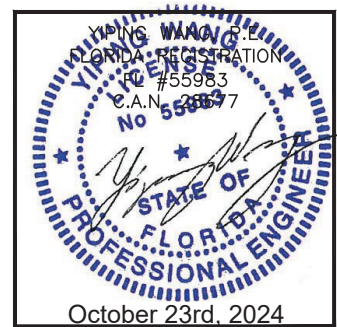


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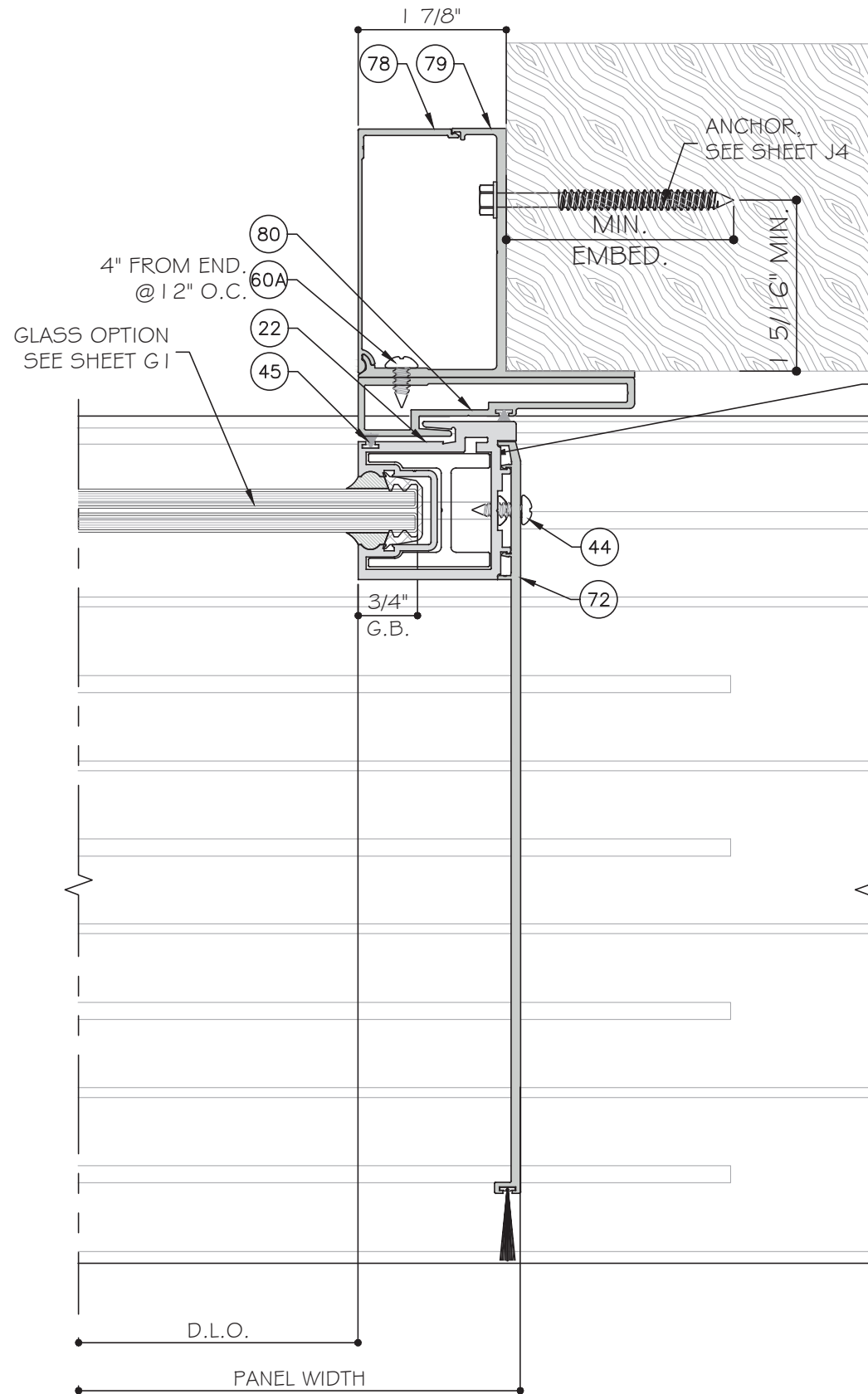


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D12
DETAIL
OPTION

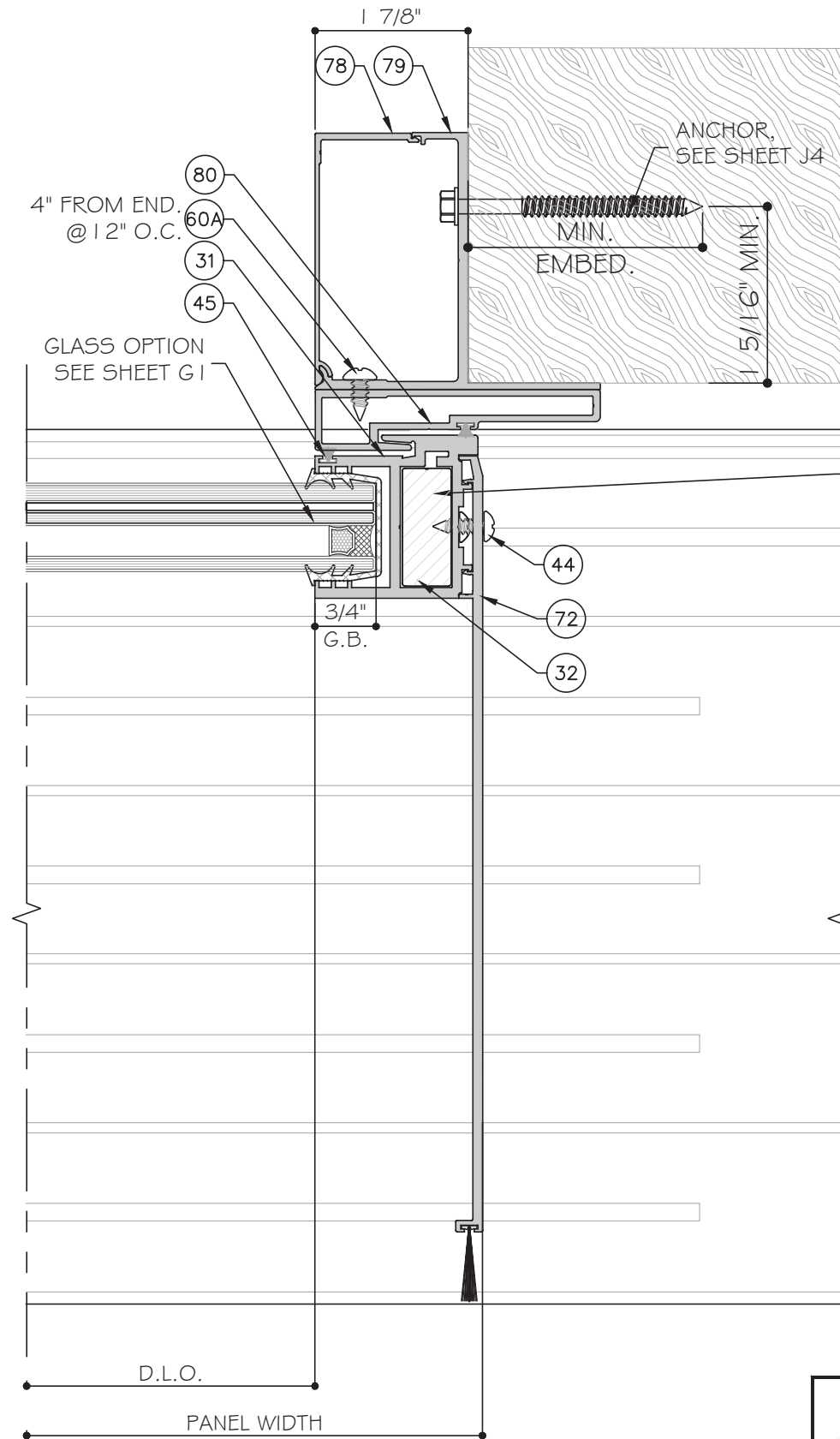
POCKET DETAIL APPLY TO 2 TRACK & 3 TRACK & 4 TRACK DOORS & 5 TRACK DOORS.



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ES WINDOWS, INC. 10653 NE Quaybridge Ct. Miami, FL 33138 TEL. (305) 624-7775	
ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)	
Drawn Date 10.08.2024	Scale 1/4" = 1'-0"
DRAWING NO. AD16-29	
Sheet No. 47 OF 59	
Revision 10.08.2024 James Drawn By Date	Description

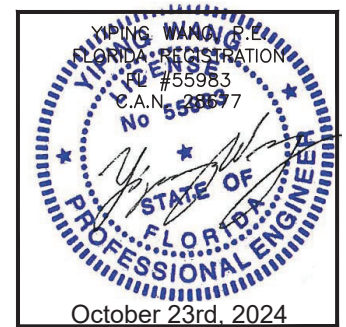


30A DETAIL
D12A



30A DETAIL
D12A OPTION

POCKET DETAIL APPLY TO 2 TRACK & 3 TRACK & 4 TRACK DOORS & 5 TRACK DOORS.



Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	REVISION

Drawn Date
10.08.2024

Scale

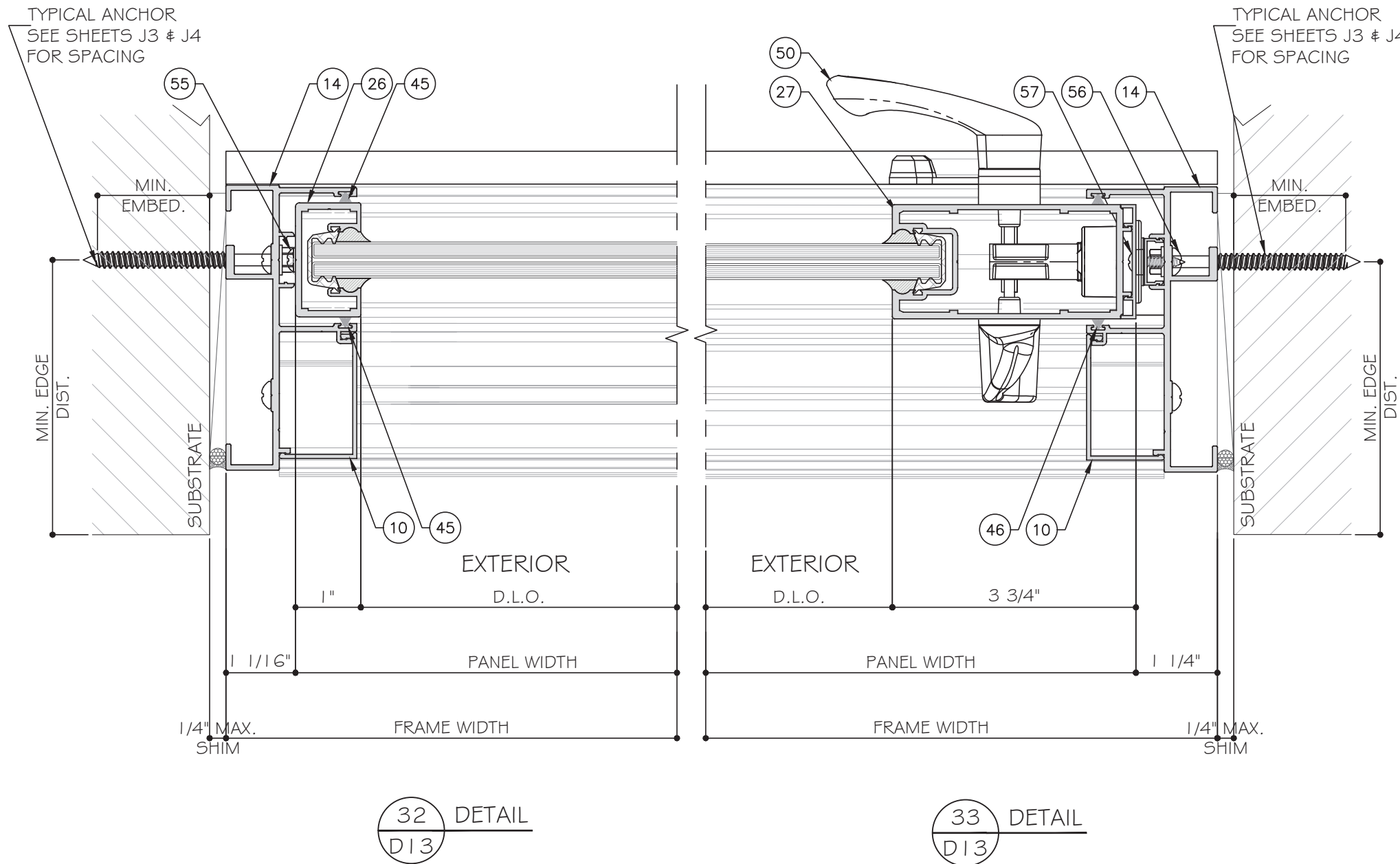
DRAWING NO.

AD16-29

D12A

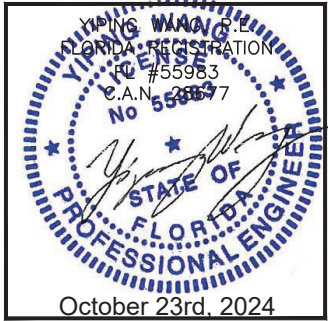
Sheet No.

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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

TWO (2) TRACK DOOR DETAILS



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Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	

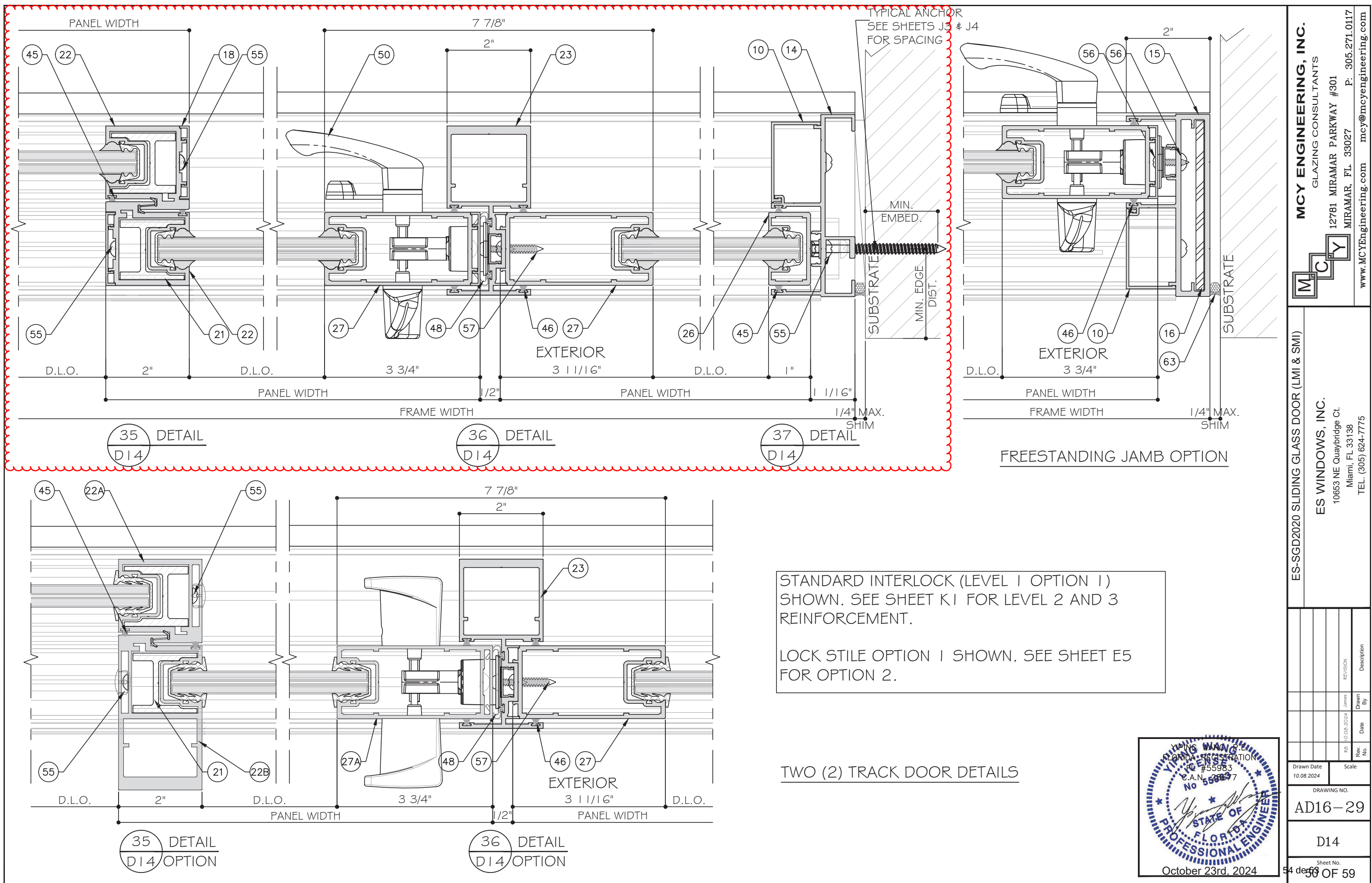
Drawn Date: 10.08.2024

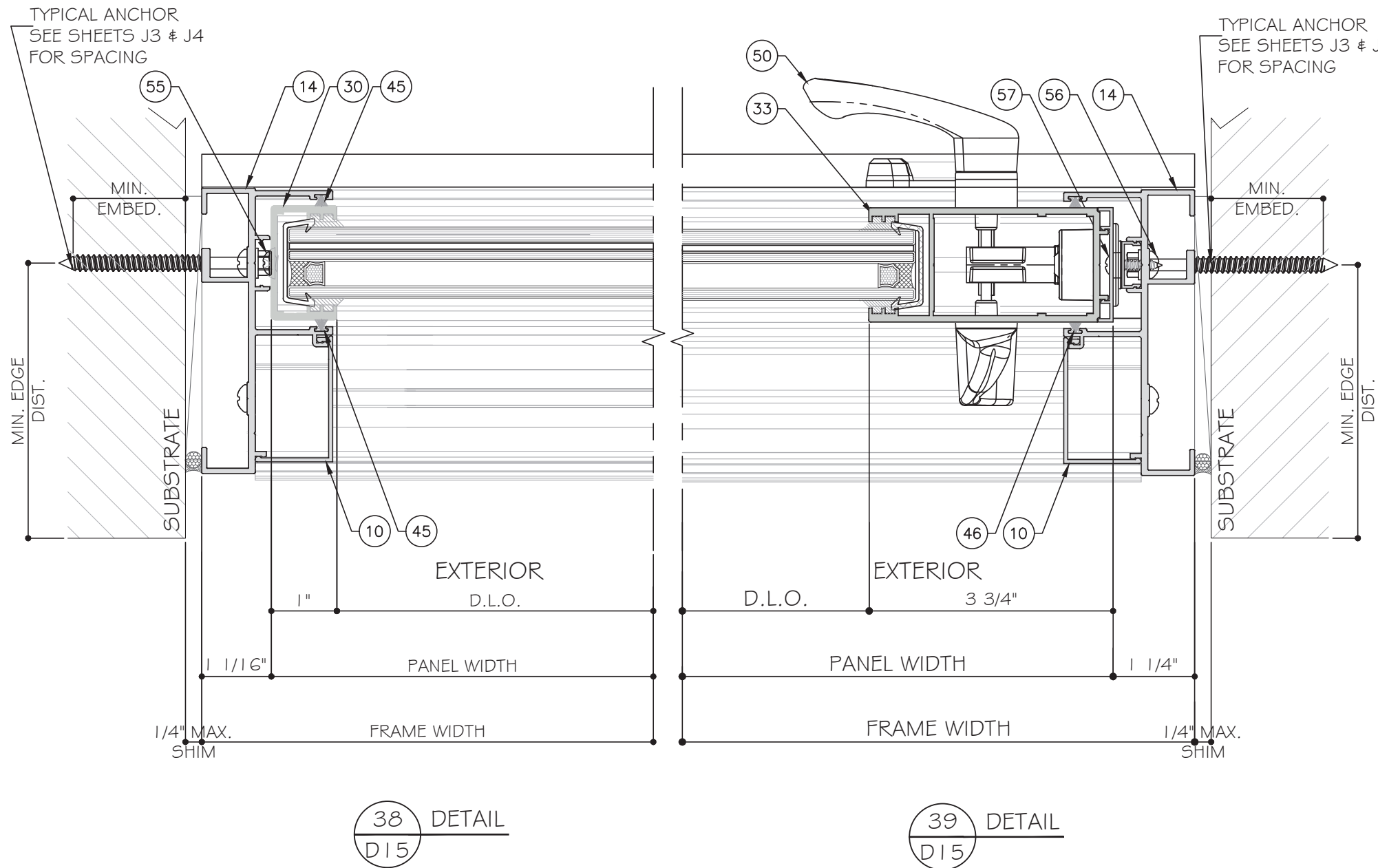
Scale:

DRAWING NO. AD16-29

Sheet No. D13

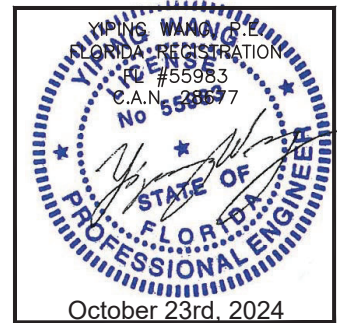
October 23rd, 2024





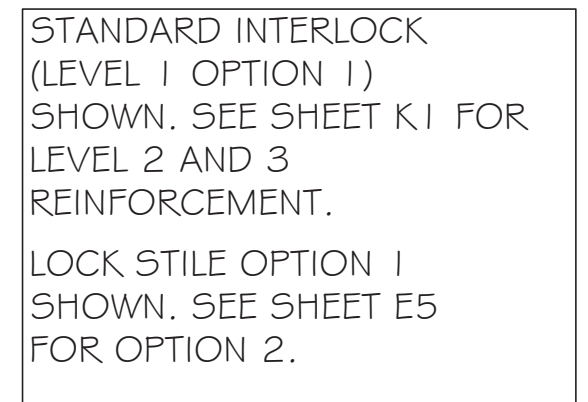
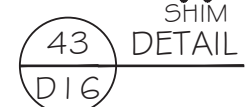
STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

TWO (2) TRACK DOOR DETAILS

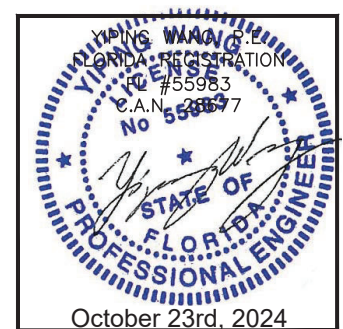


Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	
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Drawn Date	Scale
10.08.2024	
DRAWING NO.	
AD16-29	
D15	
Sheet No.	
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TWO (2) TRACK DOOR DETAILS



1 HEAD (3 TRACK)
ES-SGD2020-001 6063-T6

2 SILL (3 TRACK)
ES-SGD2020-002 6063-T6

3 FRAME SILL COVER (3 TRACKS)
ES-SGD2020-003 6063-T6

4 JAMB (3 TRACK)
ES-SGD2020-004 6063-T6

5 UNANCHORED JAMB (3 TRACK)
ES-SGD2020-005 6063-T6

6 UNANCHORED JAMB REINF.
FOR 3 TRACK
ES-SGD2020-006 6005-T5

7 SILL RAISER 67PSF
ES-SGD2020-007 6063-T6

8 STANDARD SILL RAISER 53PSF
ES-SGD2020-008 6063-T6

9 POCKET JAMB
ES-SGD2020-009 6063-T6

10 JAMB SCREW COVER
ES-SGD2020-010 6063-T6

14 JAMB (2 TRACK)
ES-SGD2020-014 6063-T6

11 HEAD (2 TRACK)
ES-SGD2020-011 6063-T6

12 SILL (2 TRACK)
ES-SGD2020-012 6063-T6

13 FRAME SILL COVER (2 TRACKS)
ES-SGD2020-013 6063-T6

36 FRAME SILL COVER (4 TRACKS)
ES-SGD2020-013 6063-T6

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Rev	Date	Drawn By	Description

Drawn Date
10.08.2024

Scale

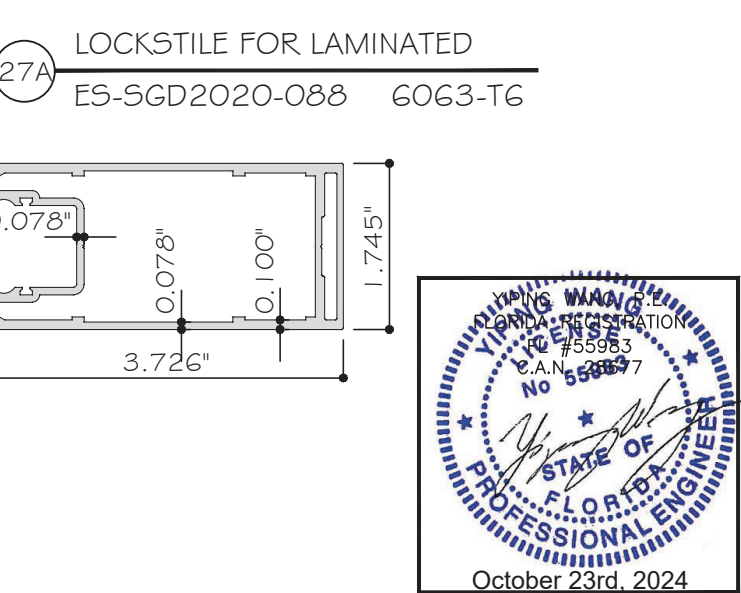
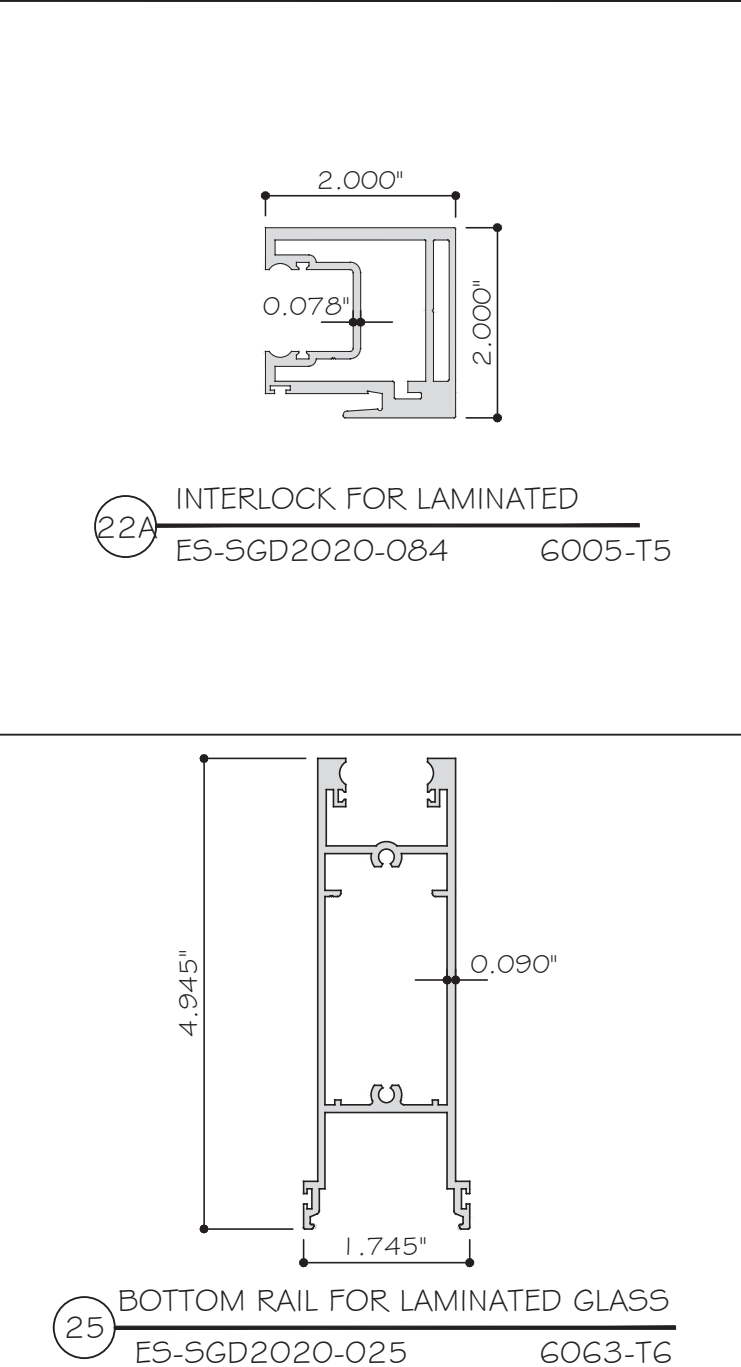
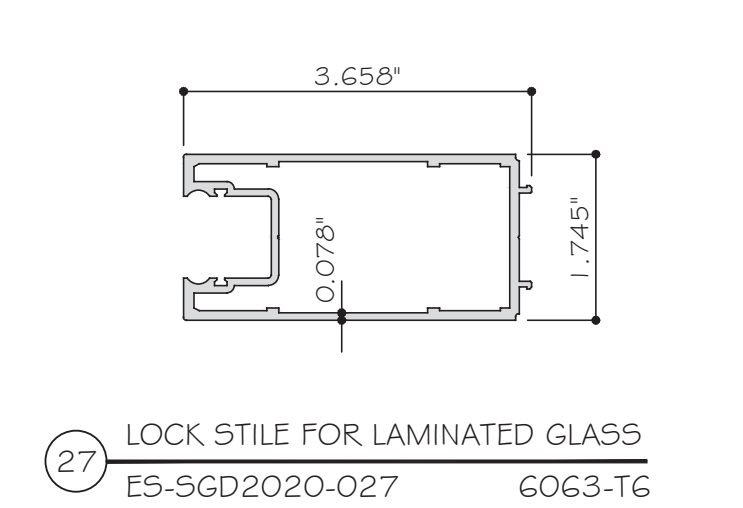
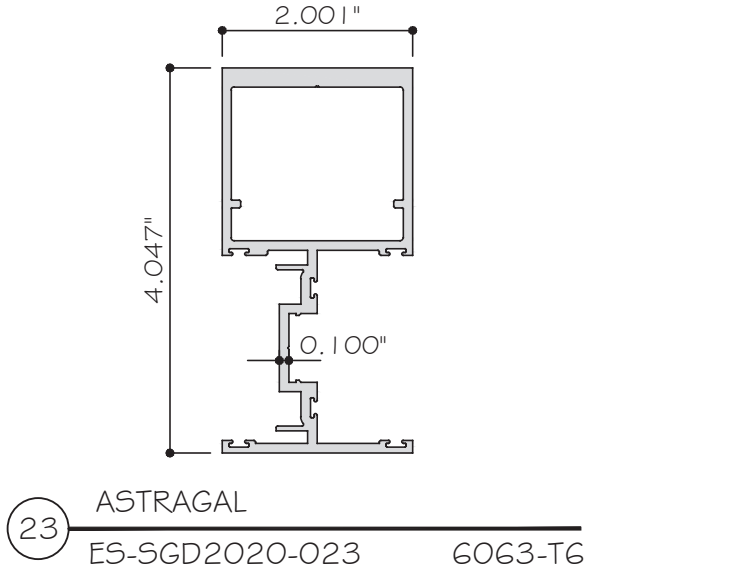
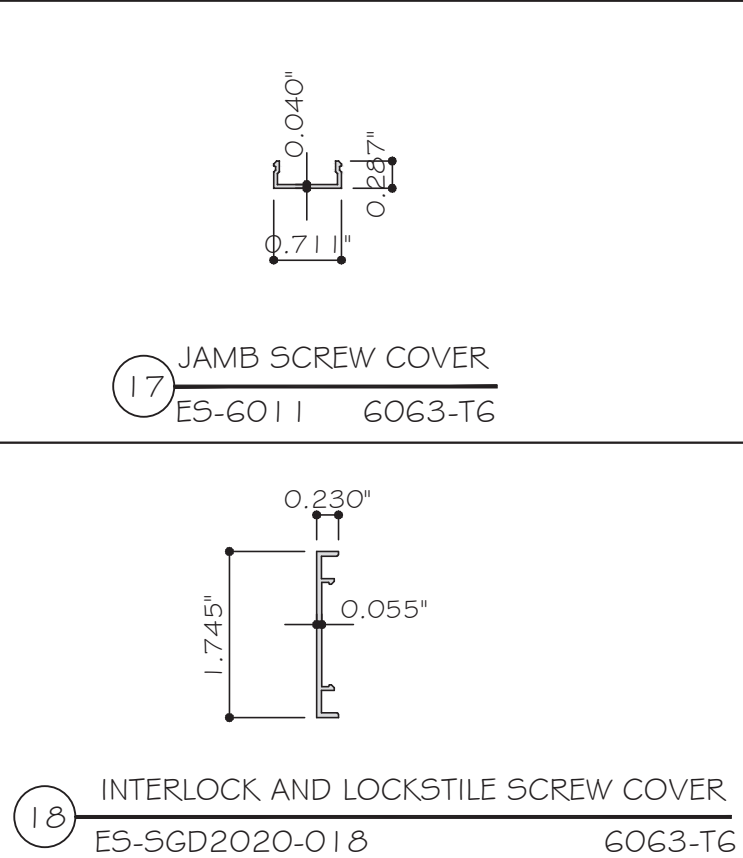
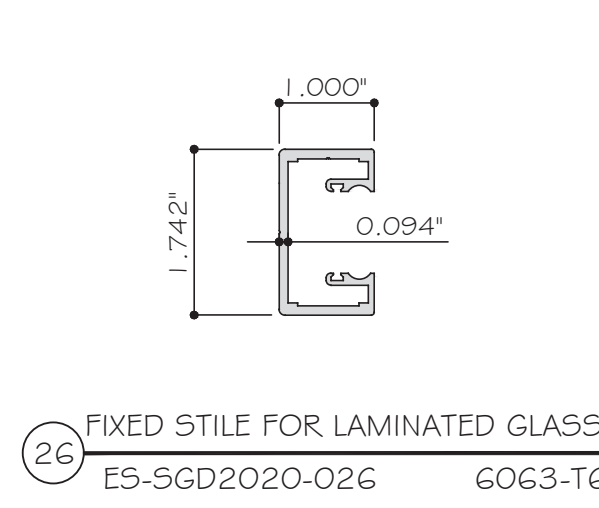
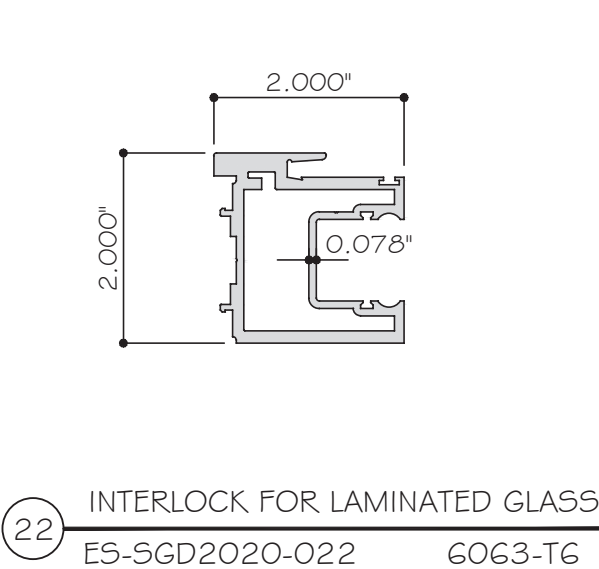
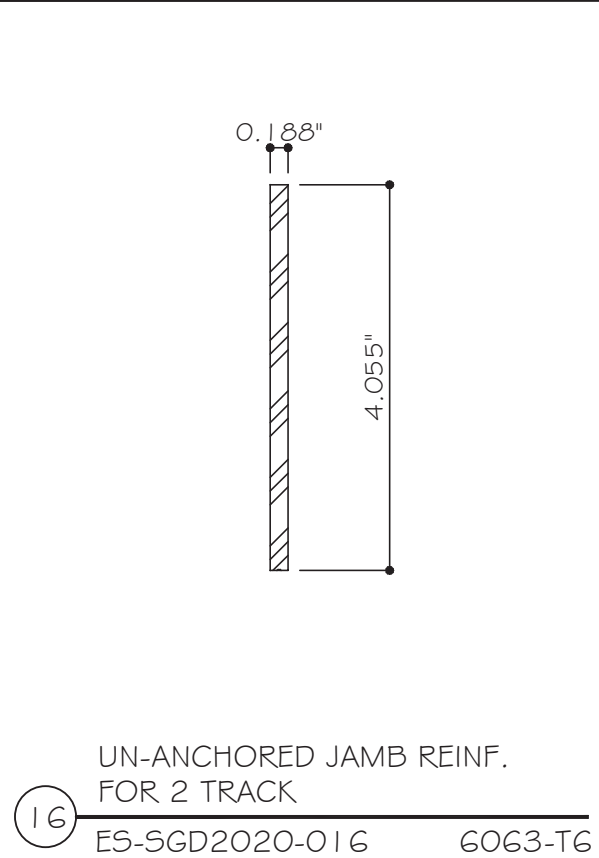
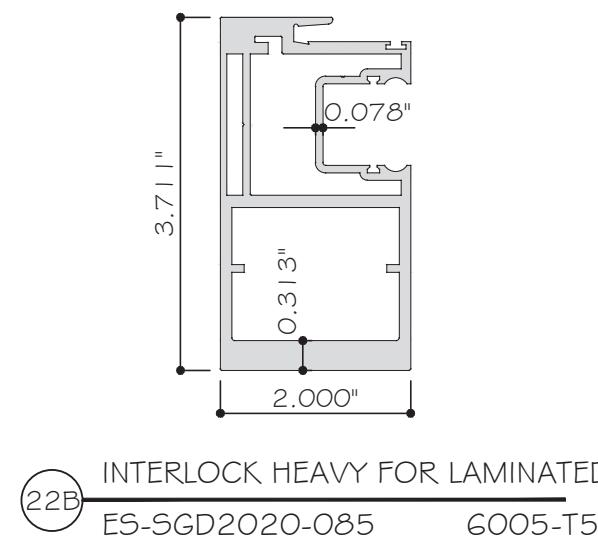
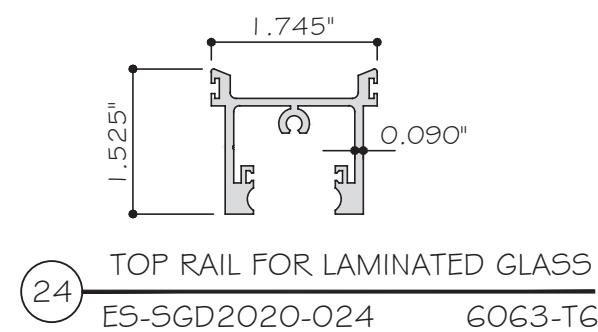
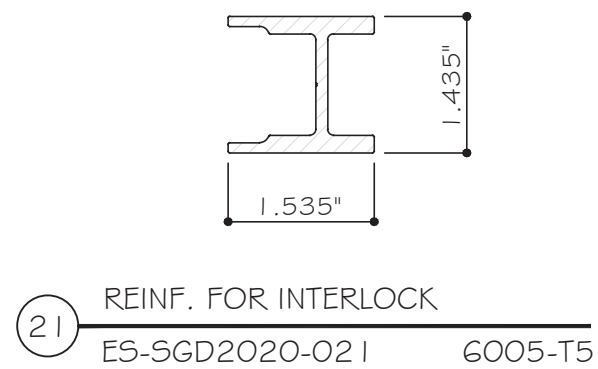
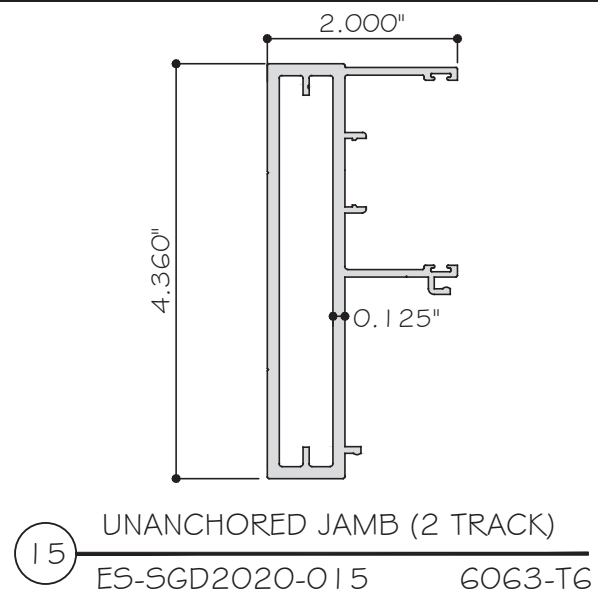
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AD16-29

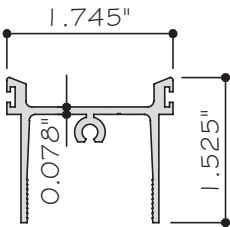
PARTS

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57 of 59

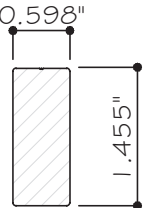
YONG WANG
FLORIDA REGISTRATION
No. 55983
C.A.N. 55987

October 23rd, 2024

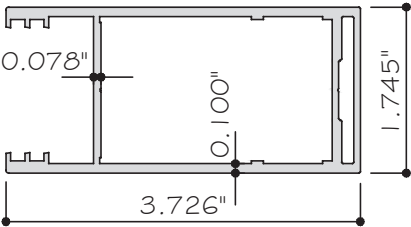




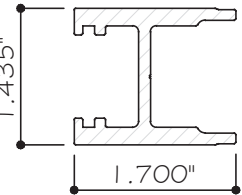
28 TOP RAIL FOR INSULATED LAMINATED
ES-SGD2020-028 6063-T6



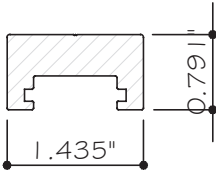
32 REINF. FOR INTERLOCK -
INSULATED LAMINATED GLASS
ES-SGD2020-032 6005-T5



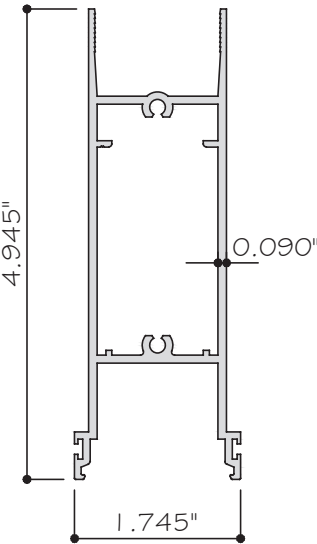
33A LOCKSTILE FOR INSULATE LAMINATED
ES-SGD2020-089 6063-T6



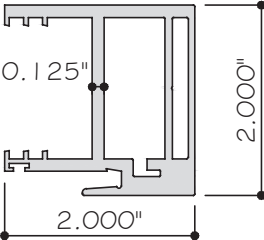
21A REINF. FOR INTERLOCK
LAMINATED GLASS
ES-SGD2020-021A 6005-T5



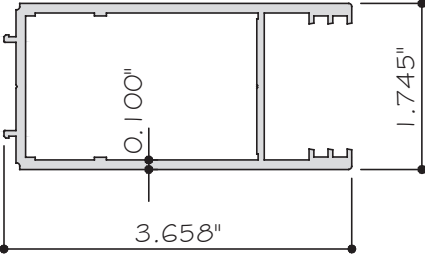
32A REINF. FOR INTERLOCK -
INSULATED LAMINATED GLASS
ES-SGD2020-032A 6005-T5



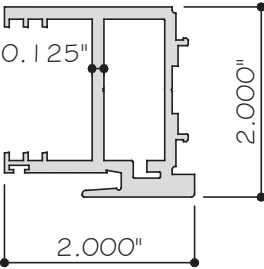
29 BOTTOM RAIL FOR
INSULATED LAMINATED
ES-SGD2020-029 6063-T6



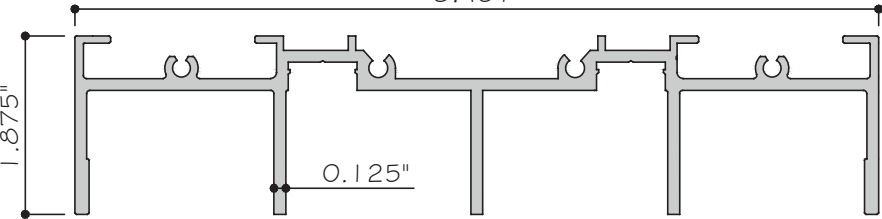
31A INTERLOCK FOR INSULATE LAMINATED
ES-SGD2020-087 6005-T5



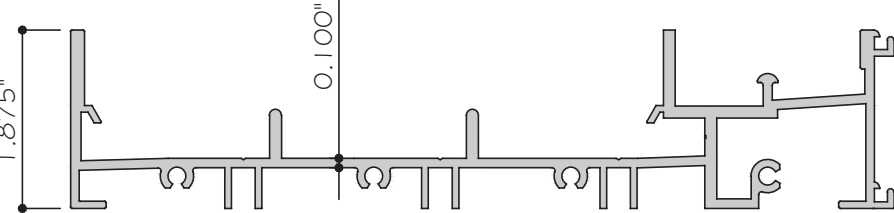
33 LOCK STILE FOR INSULATED
LAMINATED GLASS
ES-SGD2020-033 6063-T6



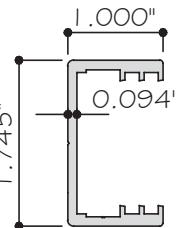
31 INTERLOCK FOR INSULATED
LAMINATED GLASS
ES-SGD2020-031 6063-T6



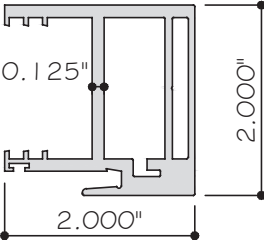
34 HEAD - 4 TRACK
ES-SGD2020-034 6063-T6



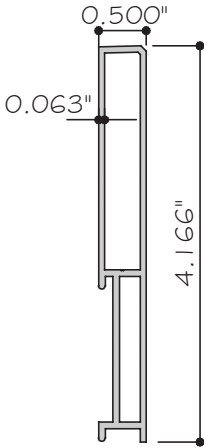
35 SILL - 4 TRACK
ES-SGD2020-035 6063-T6



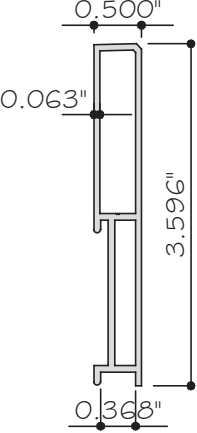
30 FIXED STILE FOR INSULATED LAMINATED
ES-SGD2020-030 6063-T6



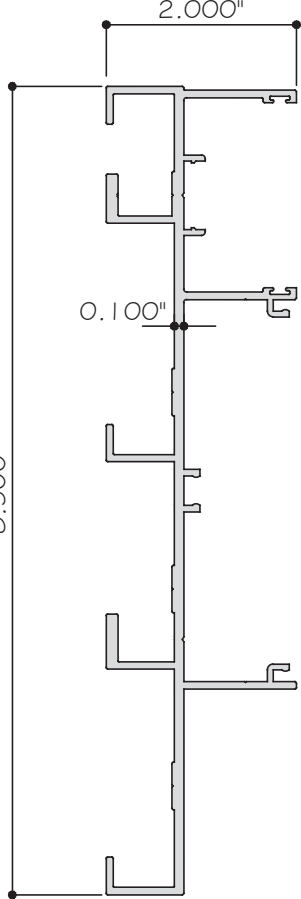
31A INTERLOCK FOR INSULATE LAMINATED
ES-SGD2020-087 6005-T5



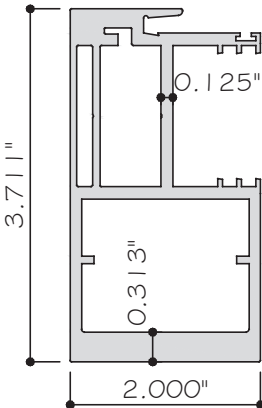
38 SILL RAISER - 90 PSF
ES-SGD2020-040 6063-T6



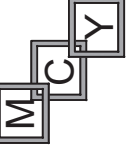
82 SILL RAISER - 80 PSF
ES-SGD2020-041 6063-T6



37 JAMB - 4 TRACK
ES-SGD2020-038 6063-T6



31B INTERLOCK HEAVY FOR
INSULATE LAMINATED
ES-SGD2020-086 6005-T5



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Rev	Date	Drawn By	Description
1	10.08.2024	James	

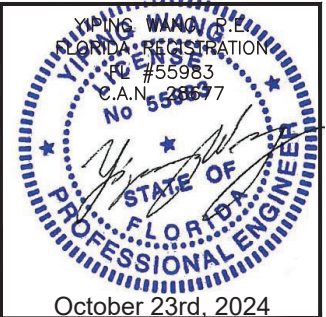
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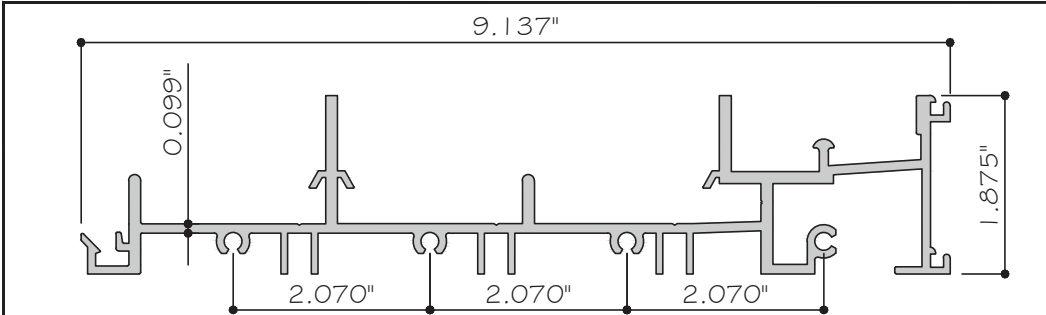
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AD16-29

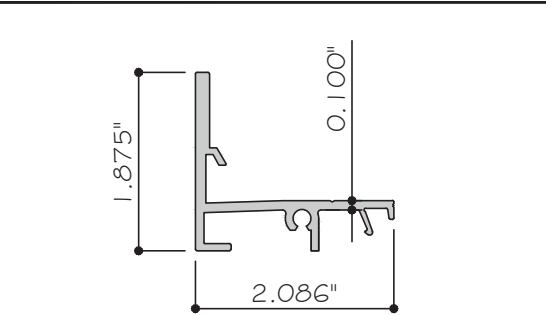
PARTS

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59 OF 59

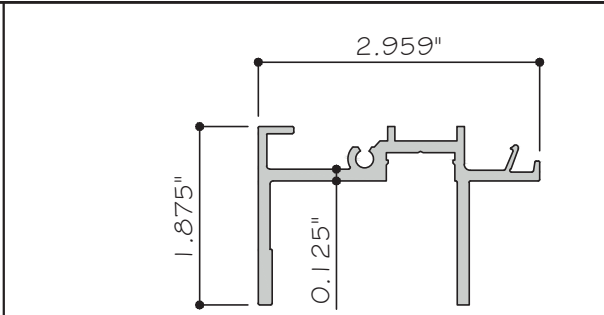




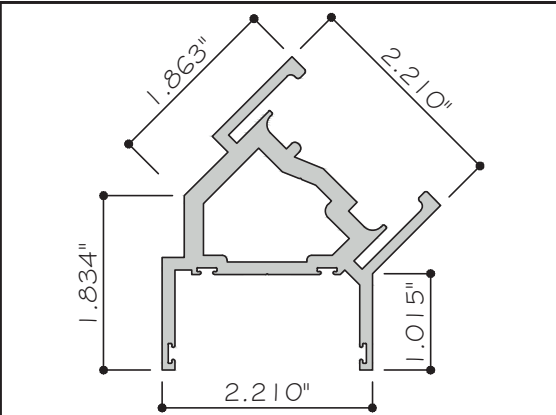
65 FRAME SILL - 5 TRACKS
ES-SGD2020-055 6063-T6



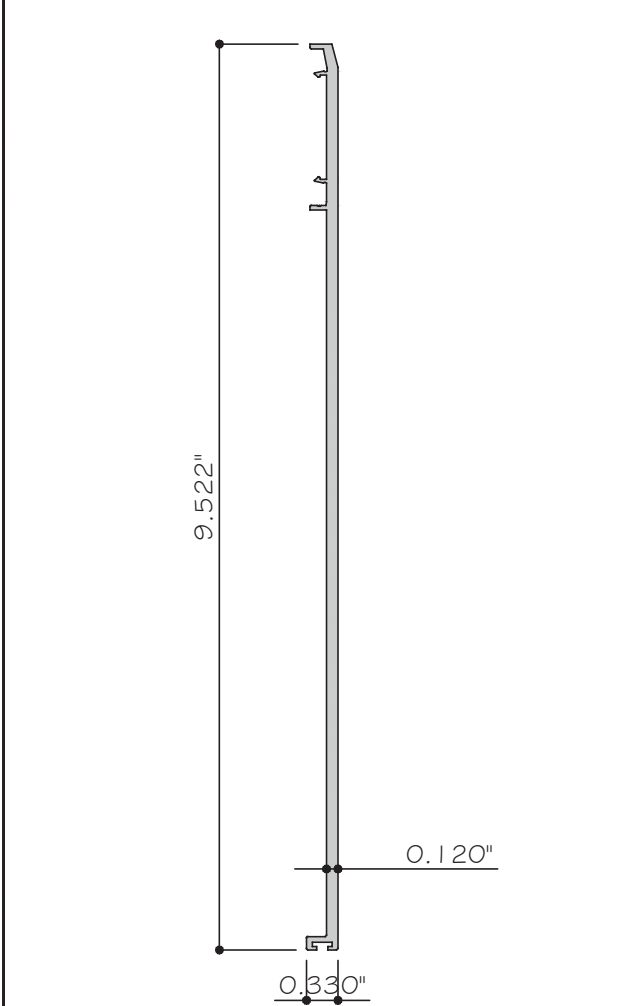
66 FRAME FRONT SILL
ES-SGD2020-054 6063-T6



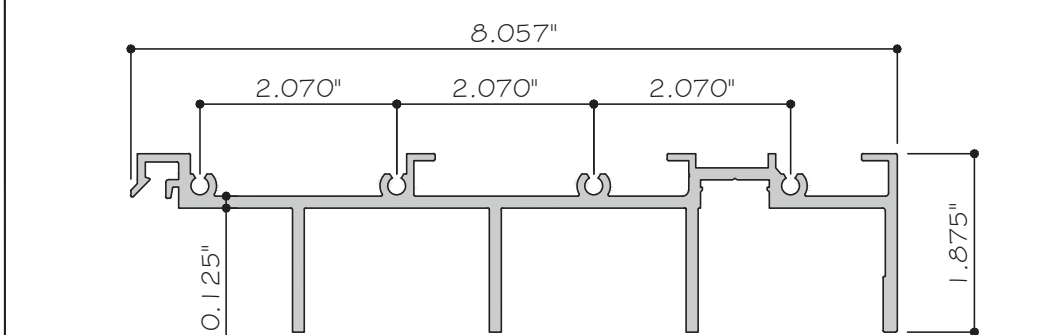
67 FRAME FRONT HEAD
ES-SGD2020-062 6063-T6



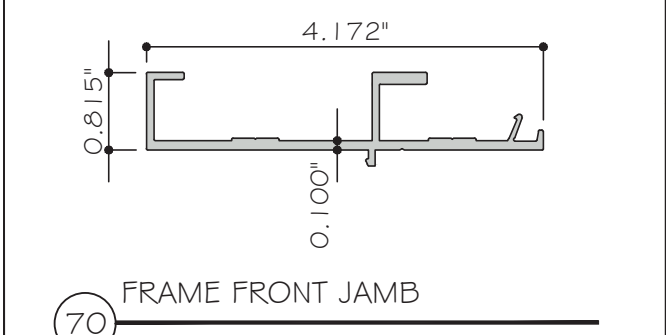
71 FRAME FRONT SILL
ES-SGD2020-056 6063-T6



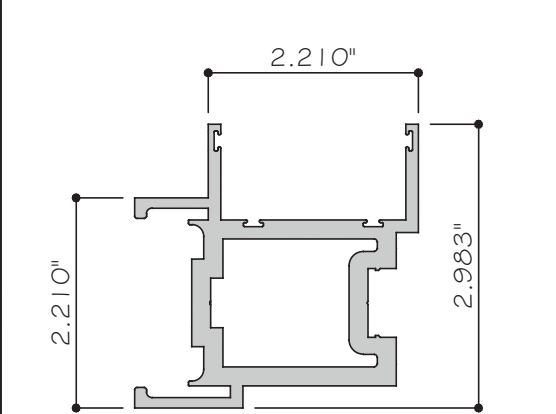
72 POCKET DOOR CLOSER - 5 TRACKS
ES-SGD2020-061 6063-T6



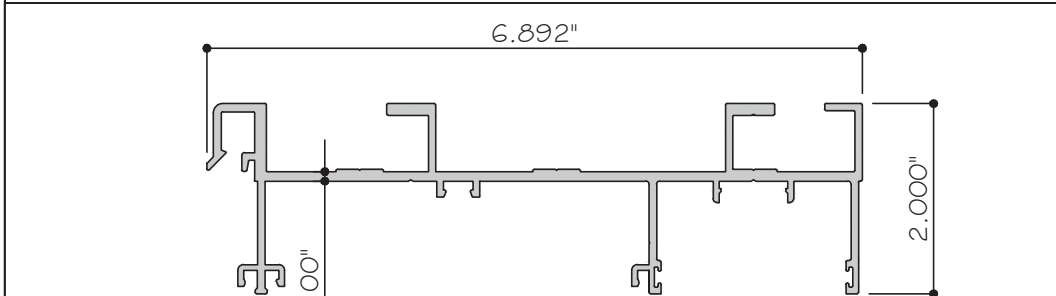
69 FRAME HEAD - 5 TRACKS
ES-SGD2020-063 6063-T6



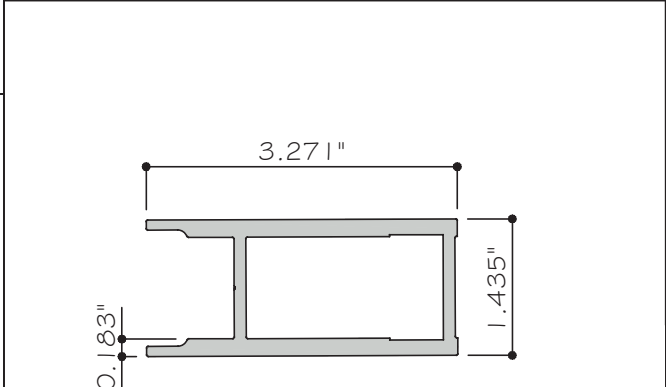
70 FRAME FRONT JAMB
ES-SGD2020-064 6063-T6



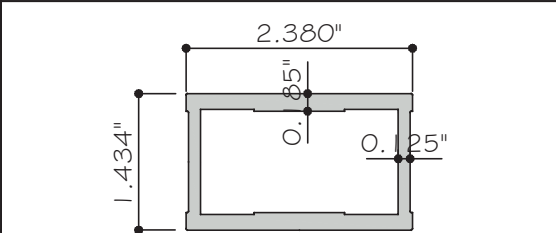
75 FRAME FRONT SILL
ES-SGD2020-068 6063-T6



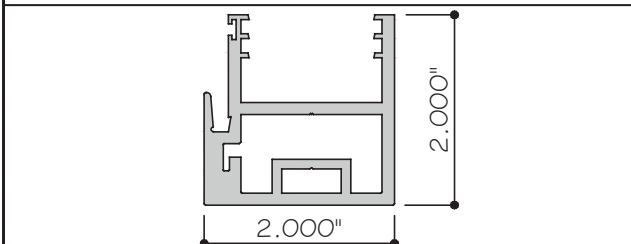
73 JAMB- 5 TRACKS
ES-SGD2020-065 6063-T6



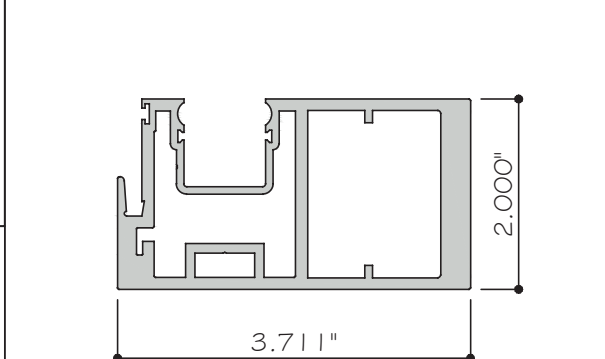
74 REINF. FOR LOCK STILE LAM. GLASS
ES-SGD2020-071 6063-T6



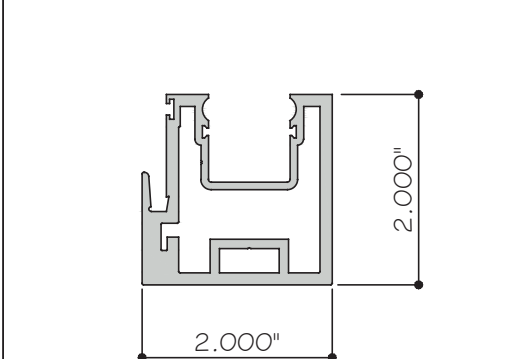
81 REINF. FOR LOCK STILE (INSL-LAM.)
ES-SGD2020-07X 6063-T6



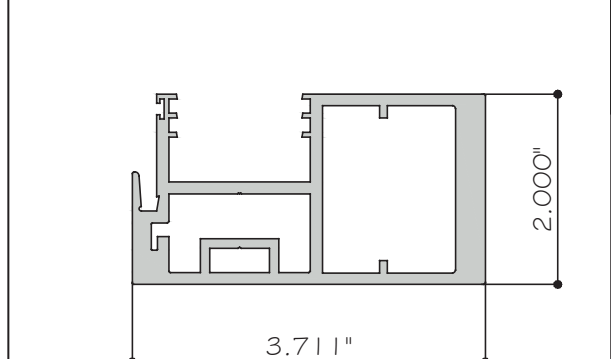
87A INTERLOCK FOR INSULATED LAMINATED GLASS
ES-SGD2020-087A 6005-T5



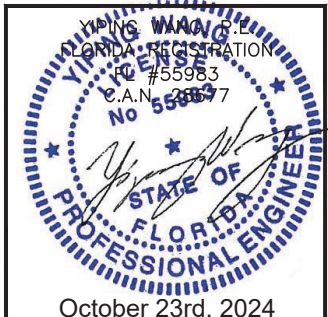
84A INTERLOCK HEAVY FOR LAMINATED GLASS
ES-SGD2020-084A 6005-T5



85A INTERLOCK FOR LAMINATED GLASS
ES-SGD2020-085A 6005-T5



86A INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS
ES-SGD2020-086A 6005-T5



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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.
Miami, FL 33138
TEL. (305) 624-7775

Rev.	No.	Date	Drawn By	Description

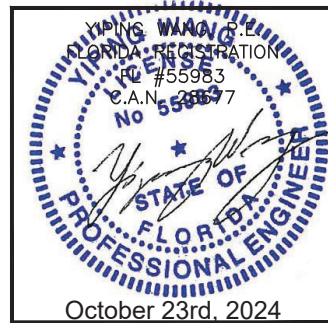
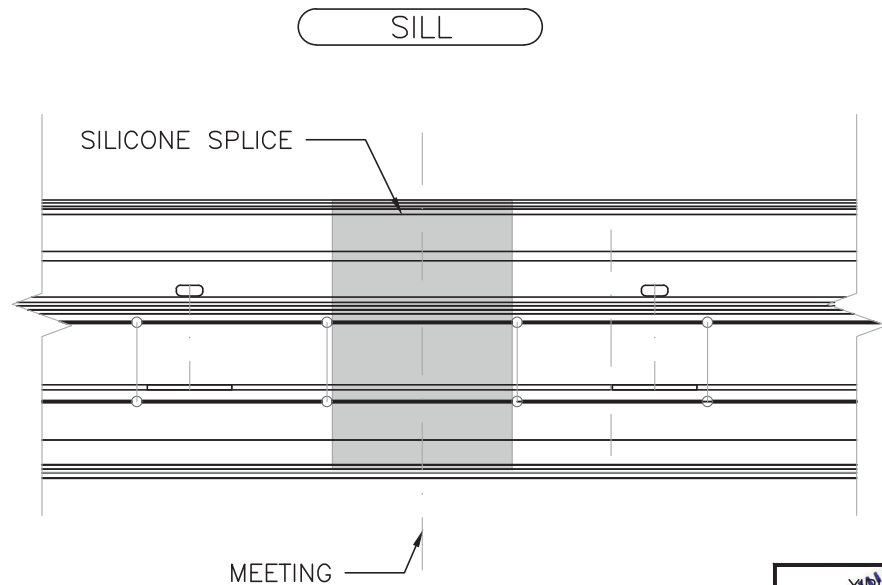
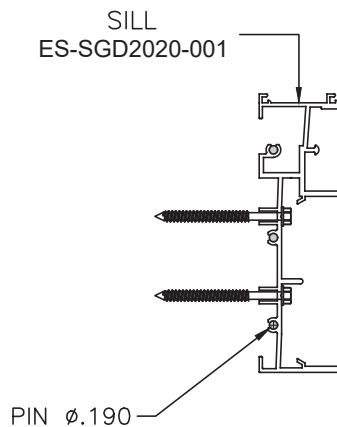
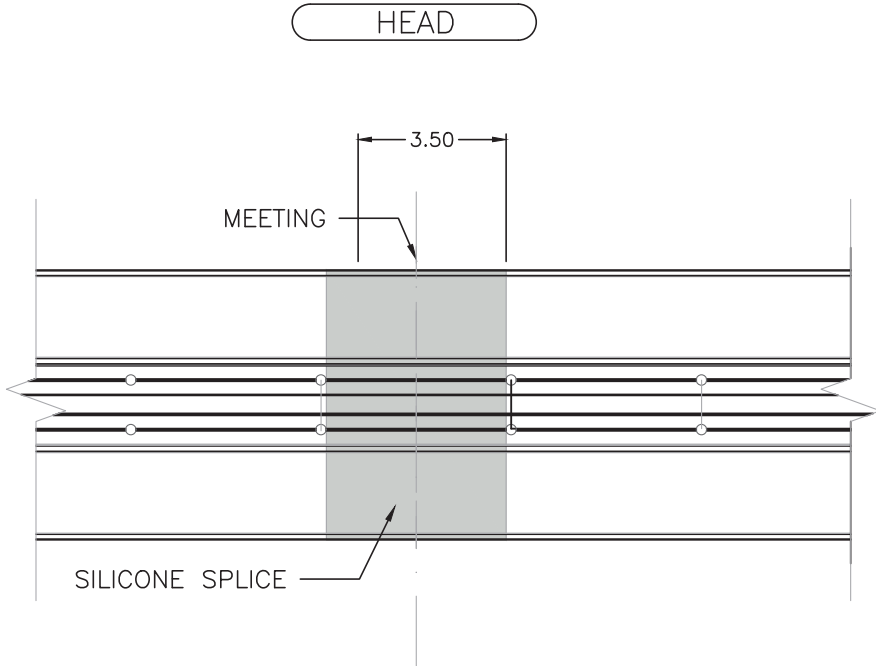
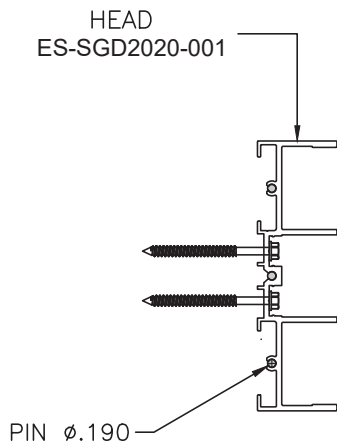
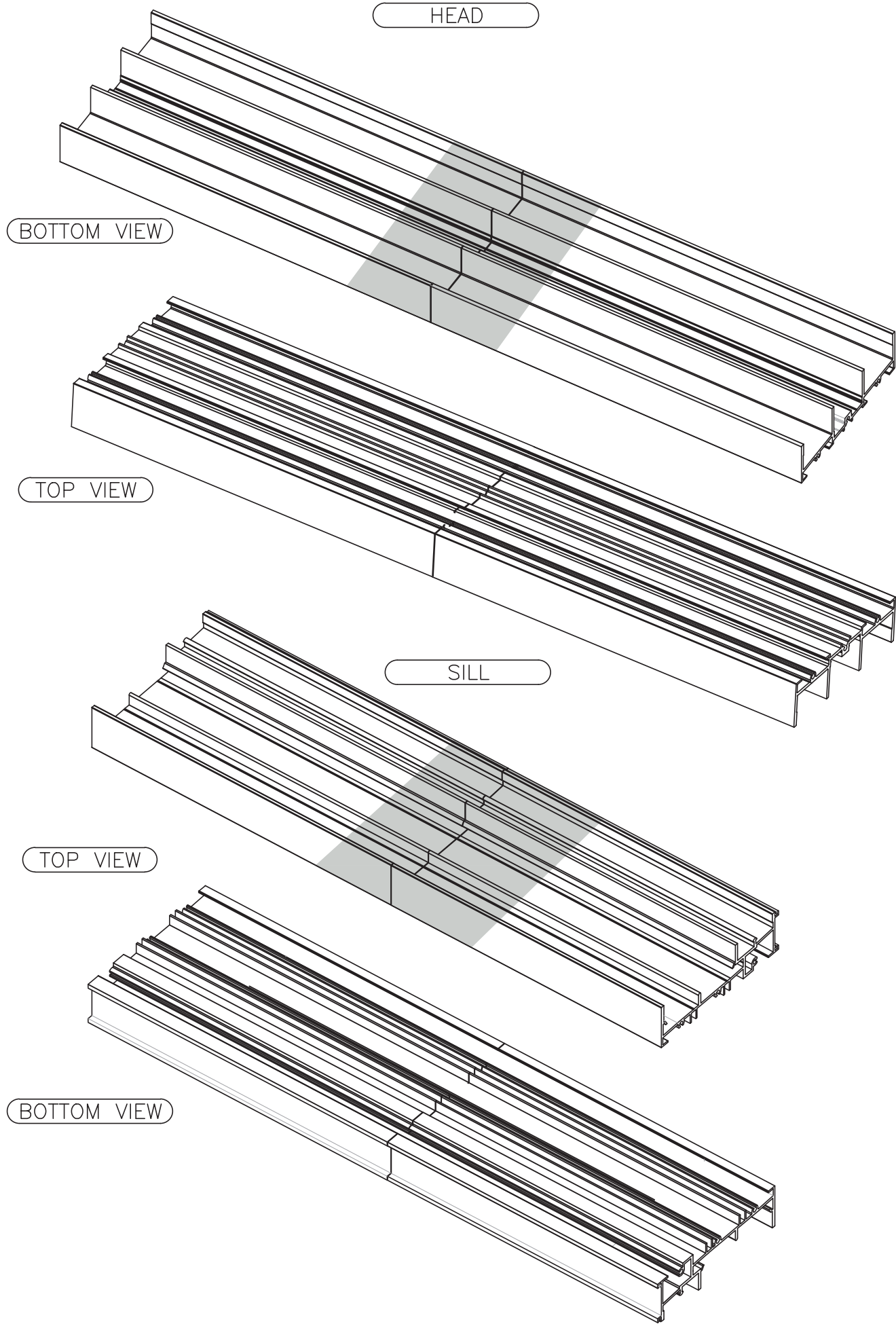
Drawn Date
10.08.2024

Scale

DRAWING NO.
AD16-29

PARTS

Sheet No.
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MCY ENGINEERING, INC.

GLAZING CONSULTANTS

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MIRAMAR, FL 33027

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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	

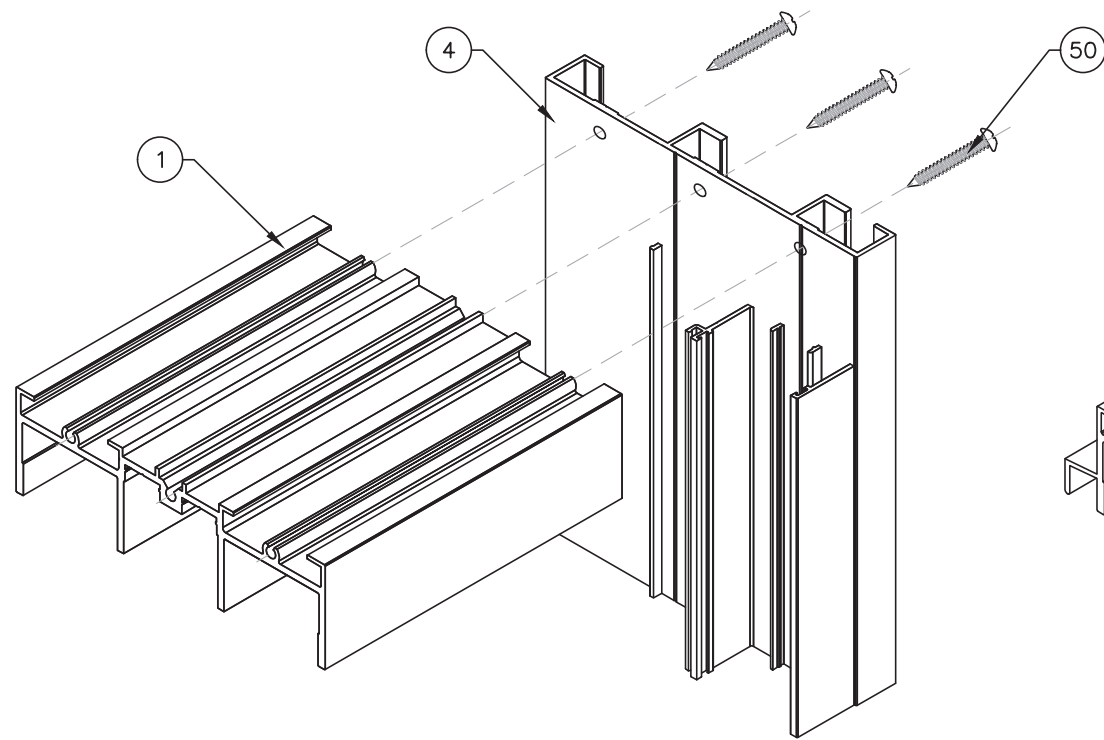
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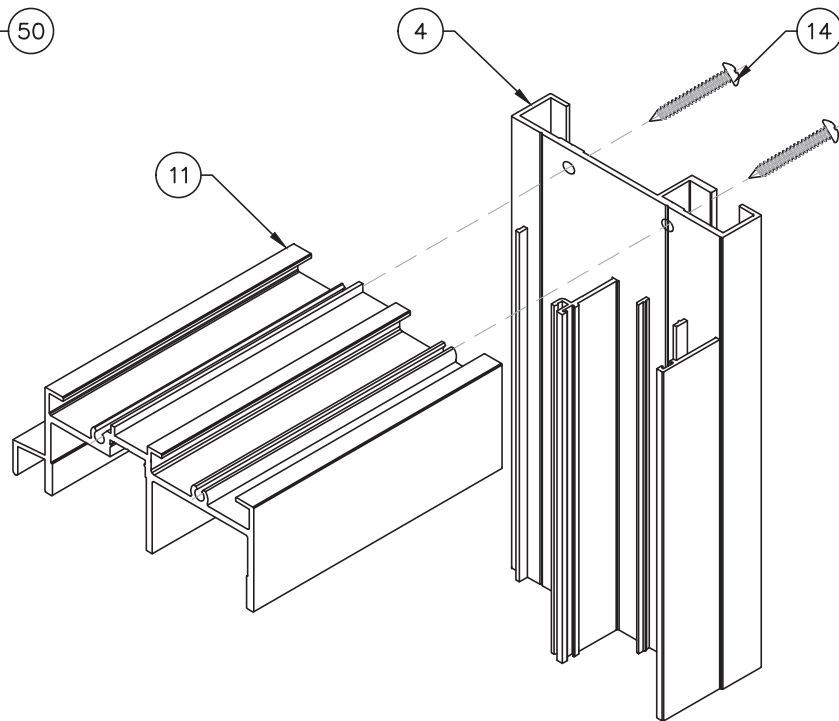
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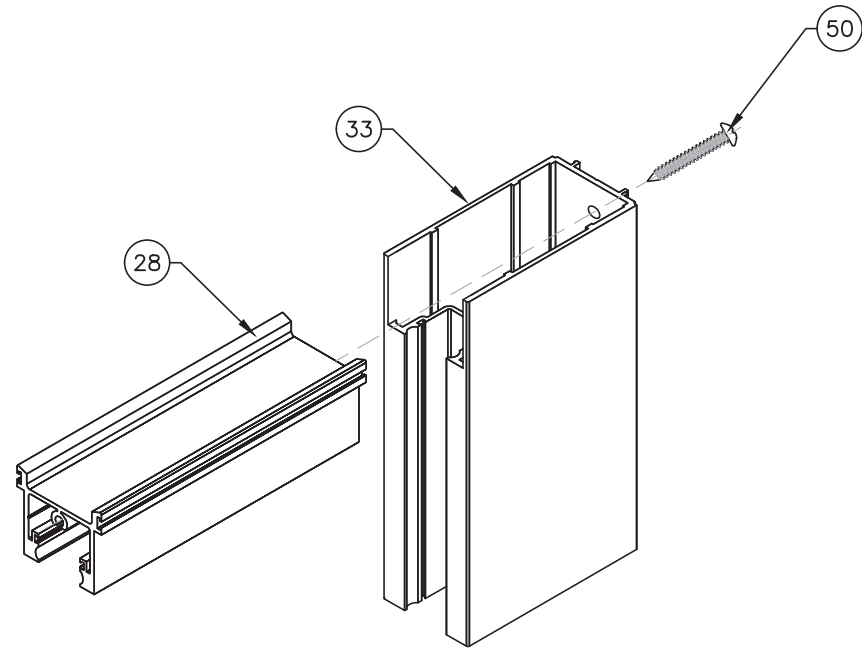
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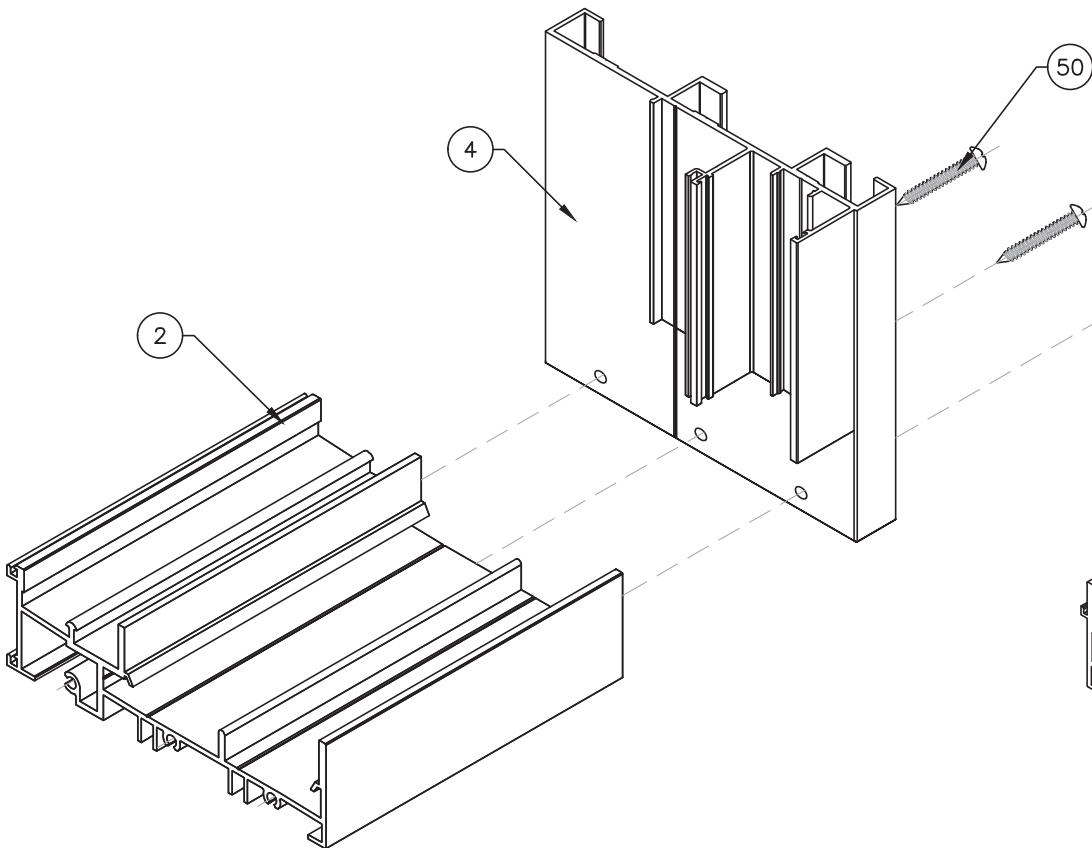
FRAME TOP CORNER
3 TRACK SHOWN



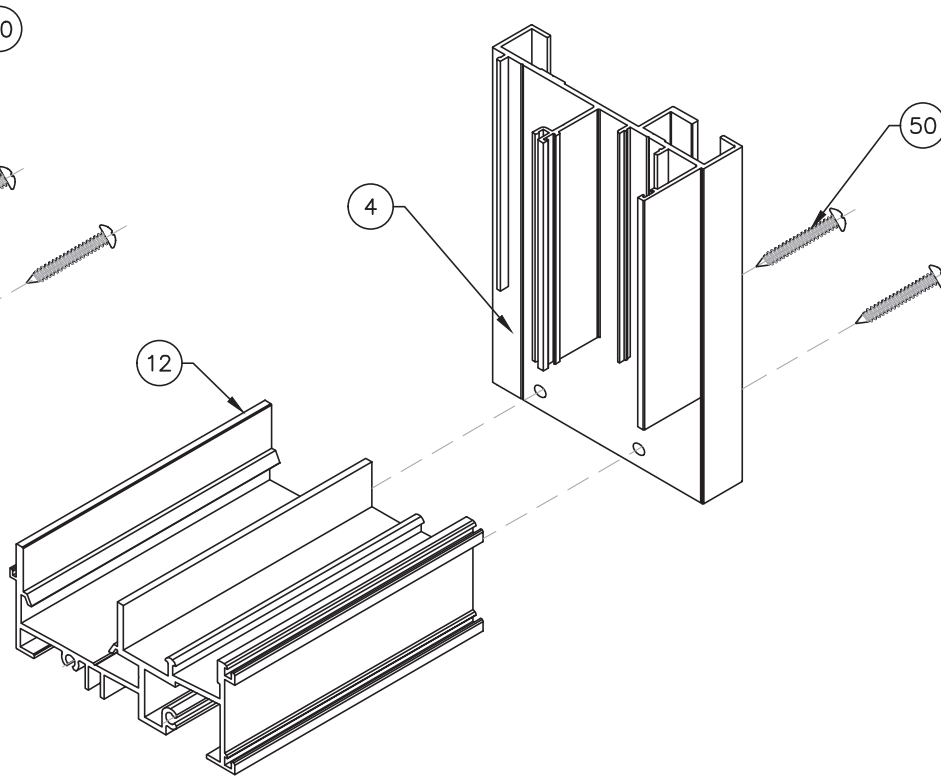
FRAME TOP CORNER
2 TRACK SHOWN



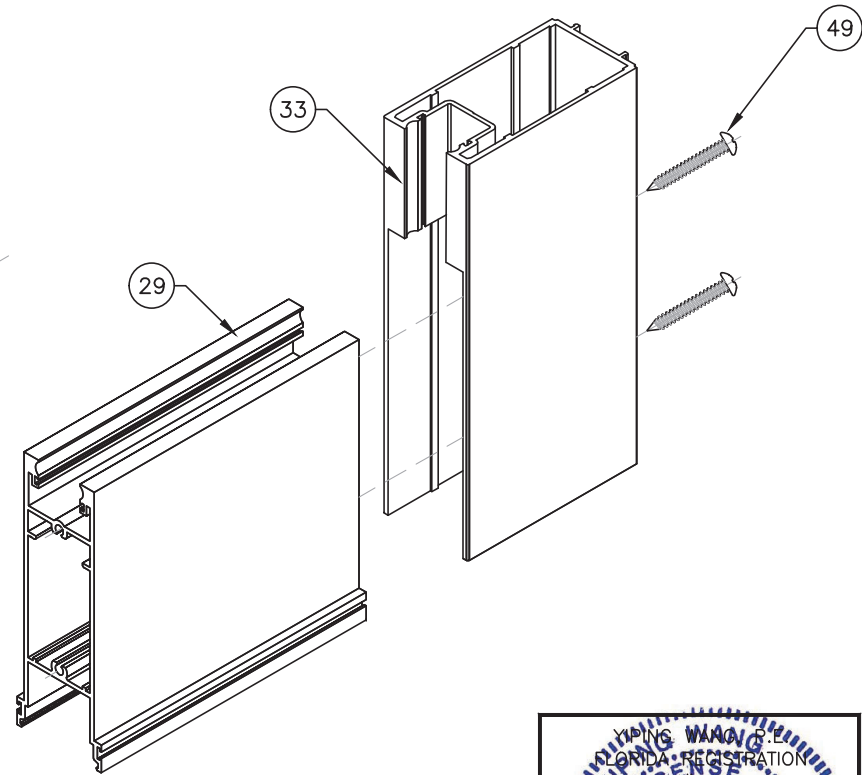
PANEL TOP CORNER



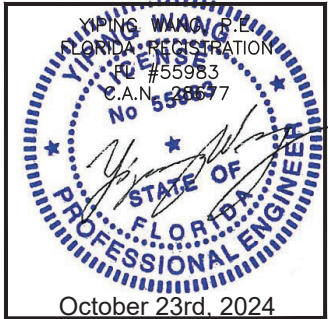
FRAME BOTTOM CORNER
3 TRACK SHOWN



FRAME BOTTOM CORNER
2 TRACK SHOWN



PANEL BOTTOM CORNER



Drawn Date		Scale	
10.08.2024			
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1	10.08.2024	James	REVISION