



Product Approval
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OFFICE OF THE
SECRETARY

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)	<table> <thead> <tr> <th>Standard</th><th>Year</th></tr> </thead> <tbody> <tr><td>AAMA 1304</td><td>2002</td></tr> <tr><td>ASTM E1886</td><td>2019</td></tr> <tr><td>ASTM E1996</td><td>2020</td></tr> <tr><td>ASTM E283</td><td>2012</td></tr> <tr><td>ASTM E331</td><td>2016</td></tr> <tr><td>ASTM F842</td><td>2017</td></tr> <tr><td>TAS 201</td><td>1994</td></tr> <tr><td>TAS 202</td><td>1994</td></tr> <tr><td>TAS 203</td><td>1994</td></tr> </tbody> </table>	Standard	Year	AAMA 1304	2002	ASTM E1886	2019	ASTM E1996	2020	ASTM E283	2012	ASTM E331	2016	ASTM F842	2017	TAS 201	1994	TAS 202	1994	TAS 203	1994
Standard	Year																				
AAMA 1304	2002																				
ASTM E1886	2019																				
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ASTM E283	2012																				
ASTM E331	2016																				
ASTM F842	2017																				
TAS 201	1994																				
TAS 202	1994																				
TAS 203	1994																				
Equivalence of Product Standards Certified By																					

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

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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 E6 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	CL - CENTER LINE
F.H. - FRAME HEIGHT	S.S. - STAINLESS STEEL
F.W. - FRAME WIDTH	H.S. - HEAT STRENGTHENED
LG. - LONG	SSG - STRUCTURAL SILICONE
STL. - STEEL	GLAZED
ALUM. - ALUMINUM	TEMP. - TEMPERED
MULL. - MULLION	O.C. - ON CENTER
HORIZ. - HORIZONTAL	G.B. - GLASS BITE
W/ - WITH	SECTION NUMBER
W/O - WITHOUT	
VERT. - VERTICAL	
T.H.- TRANSOM HEIGHT	

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.		

YONG WANG
FLORIDA REGISTRATION
#55983
C.A.N. 55987

October 23rd, 2024

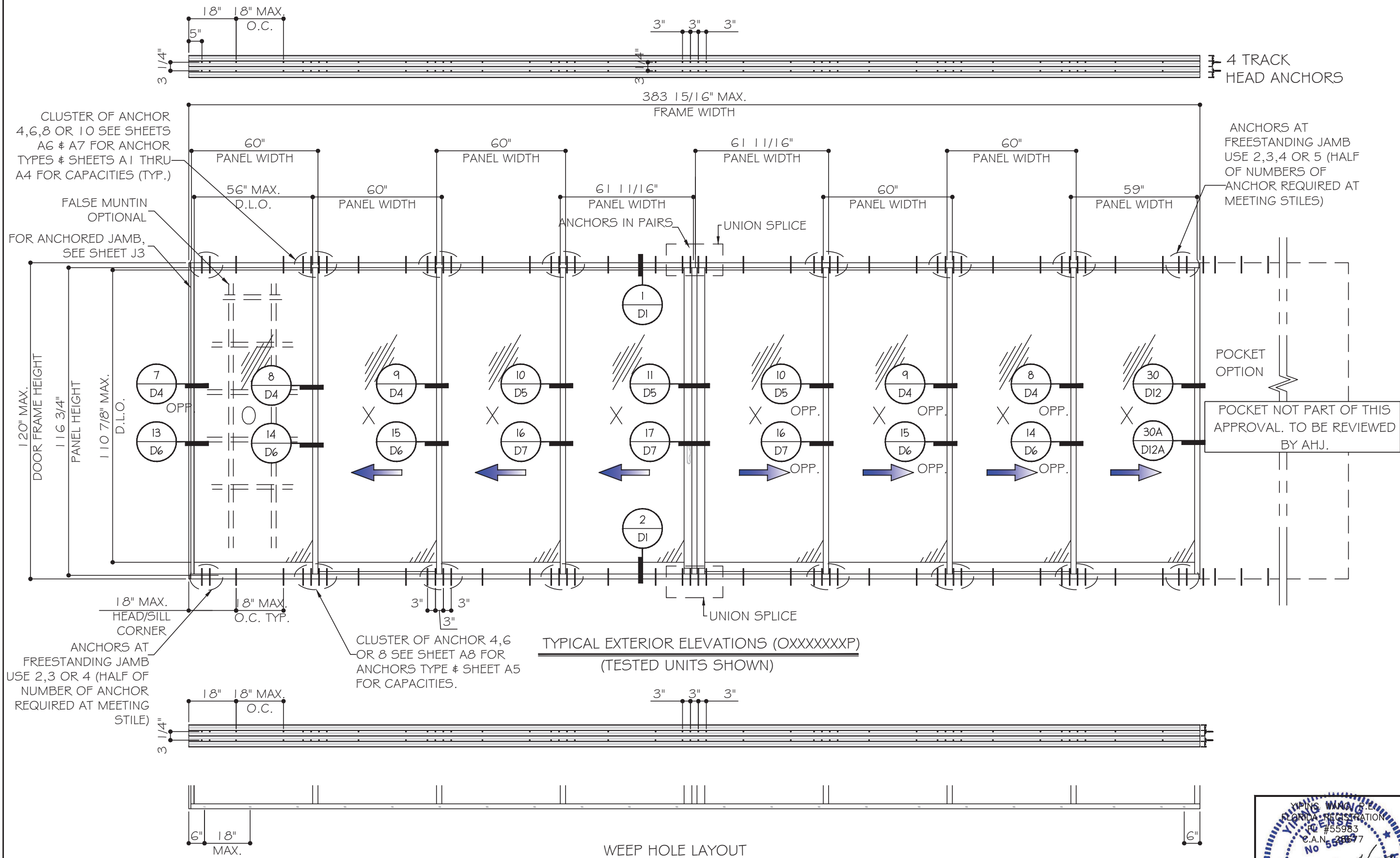
Drawn Date	Scale
10.08.2024	AS SHOWN
DRAWING NO.	
AD16-29	
COVER	
Sheet No.	
01 OF 59	

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

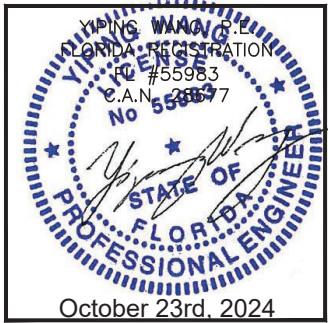
MCY

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



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"



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TEL: (305) 624-7775

Rev	Date	Drawn By	Description
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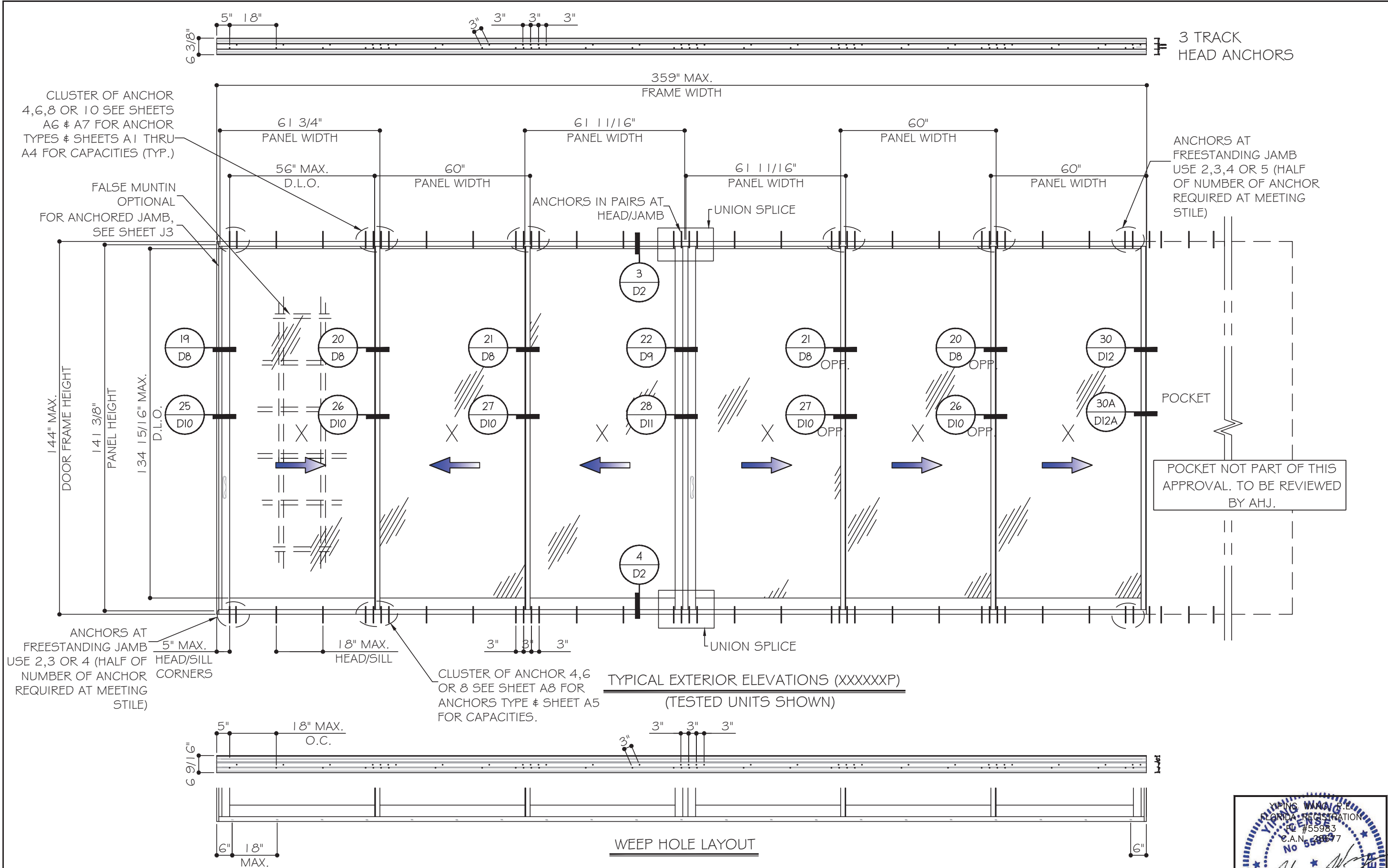
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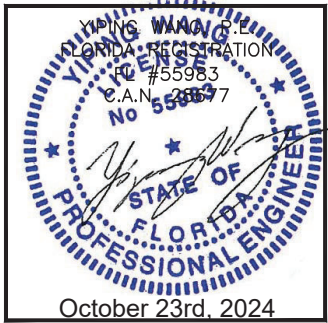
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E1

Sheet No.
02 OF 59



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
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D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"



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Drawn Date

10.08.2024

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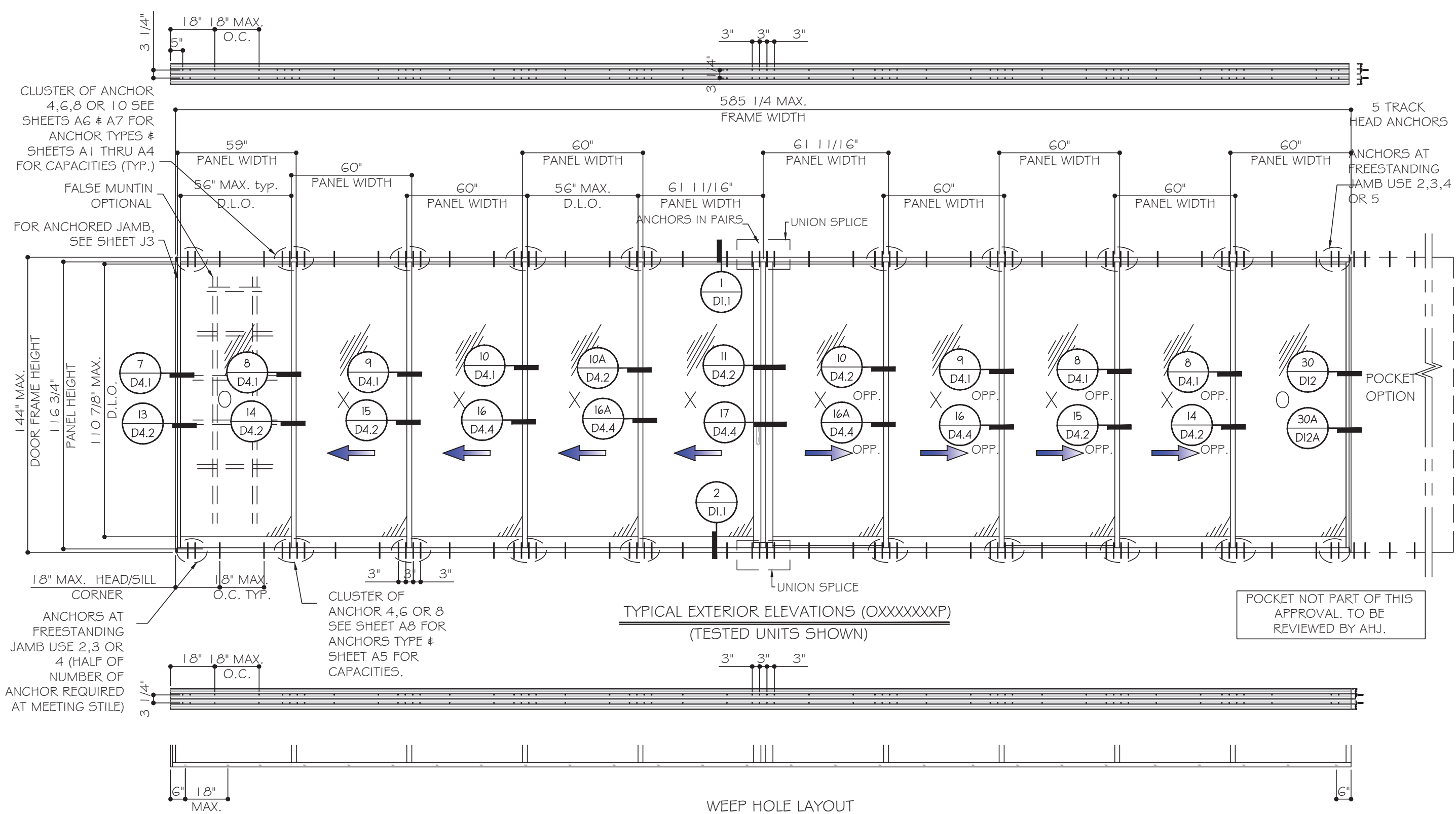
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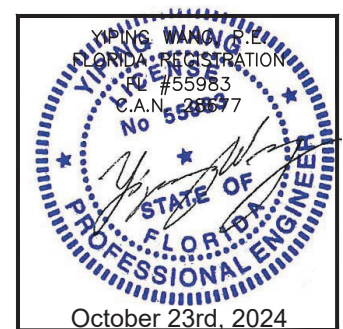
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NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
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D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"

FOR INTERLOCK CAPACITY
SEE CHARTS
SHEET K.1



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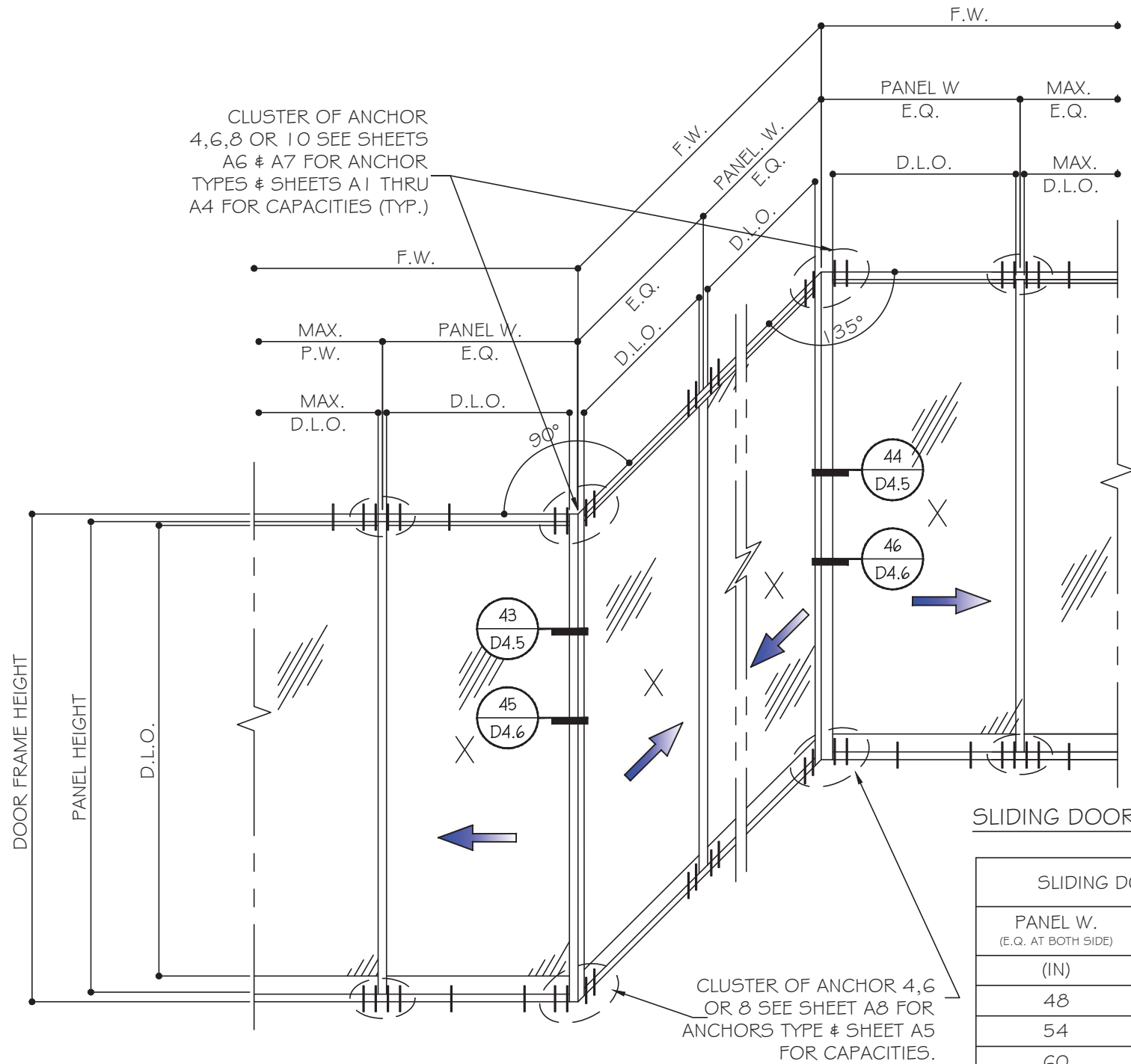
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E4

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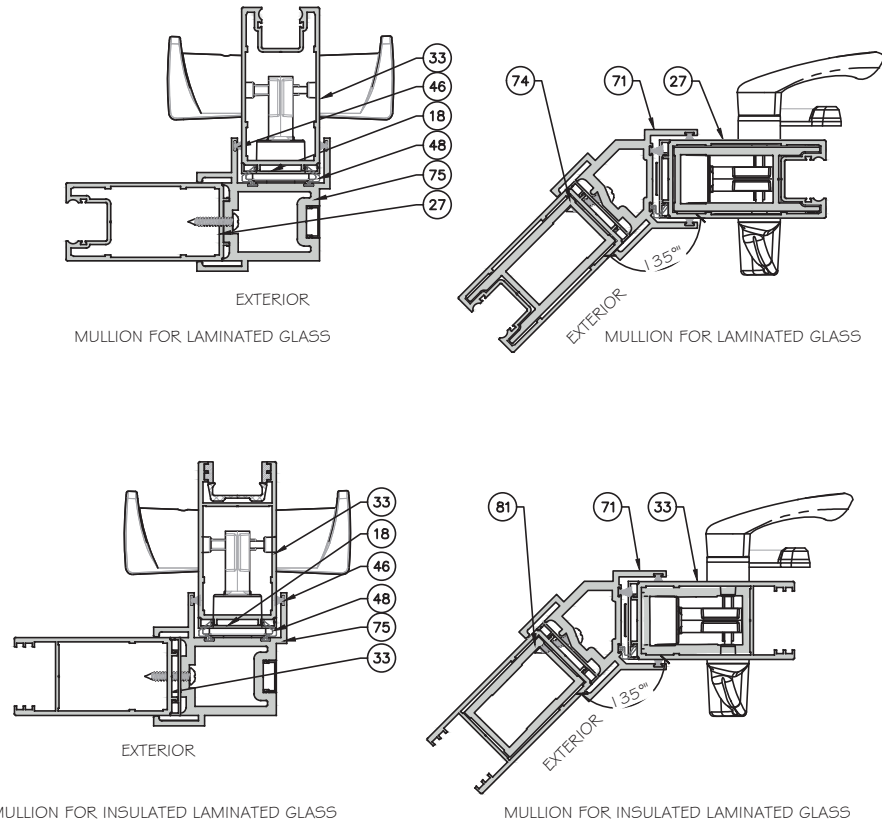
CORNER MULLIONS

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

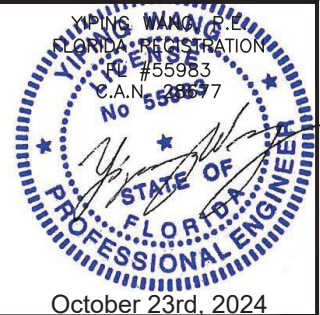
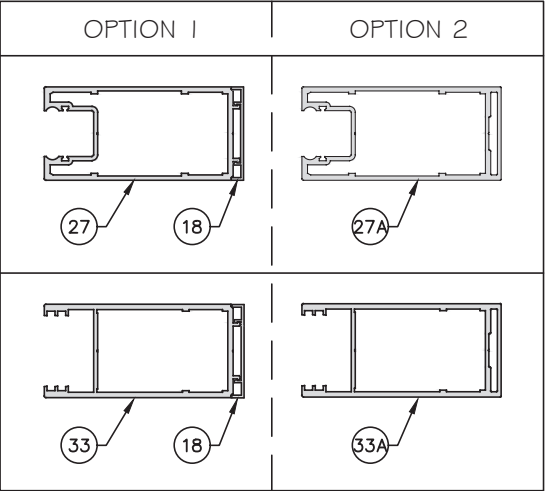
SLIDING DOOR WITH 90° & 135° TURN

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



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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

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Rev. No.

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Description

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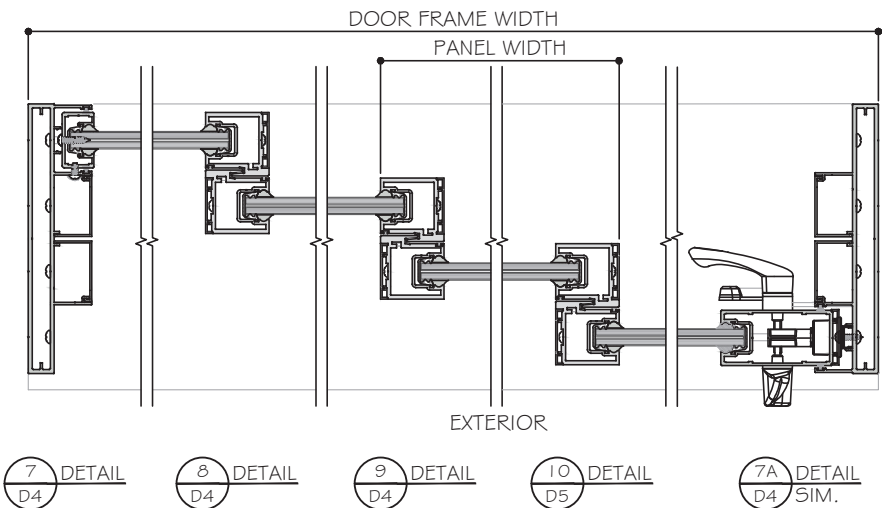
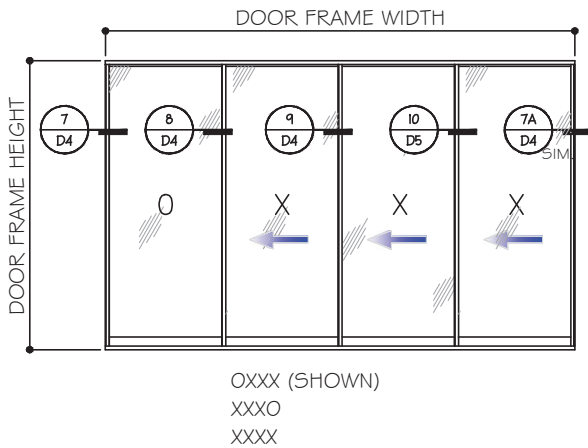
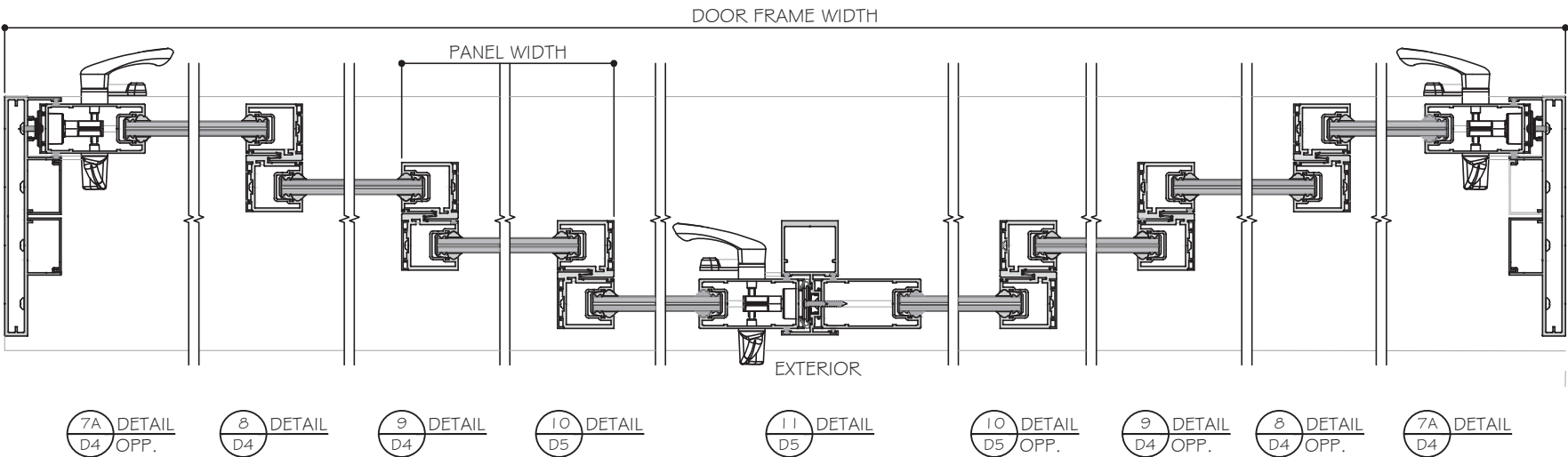
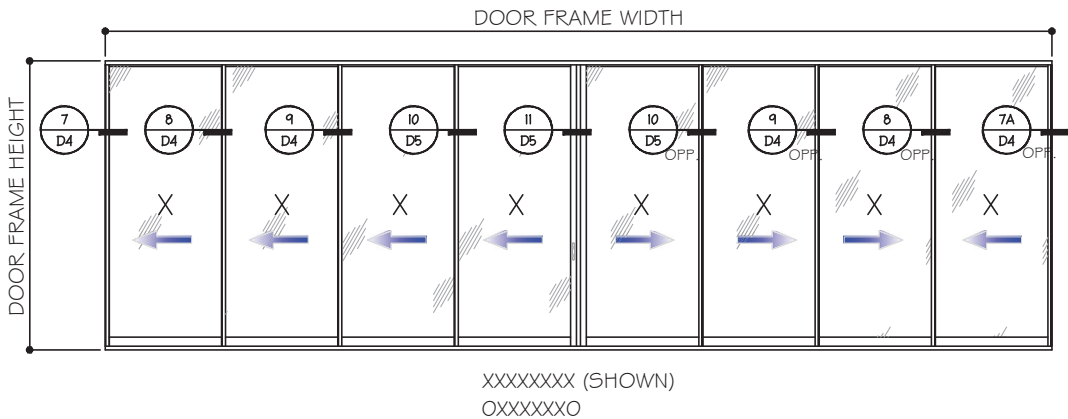
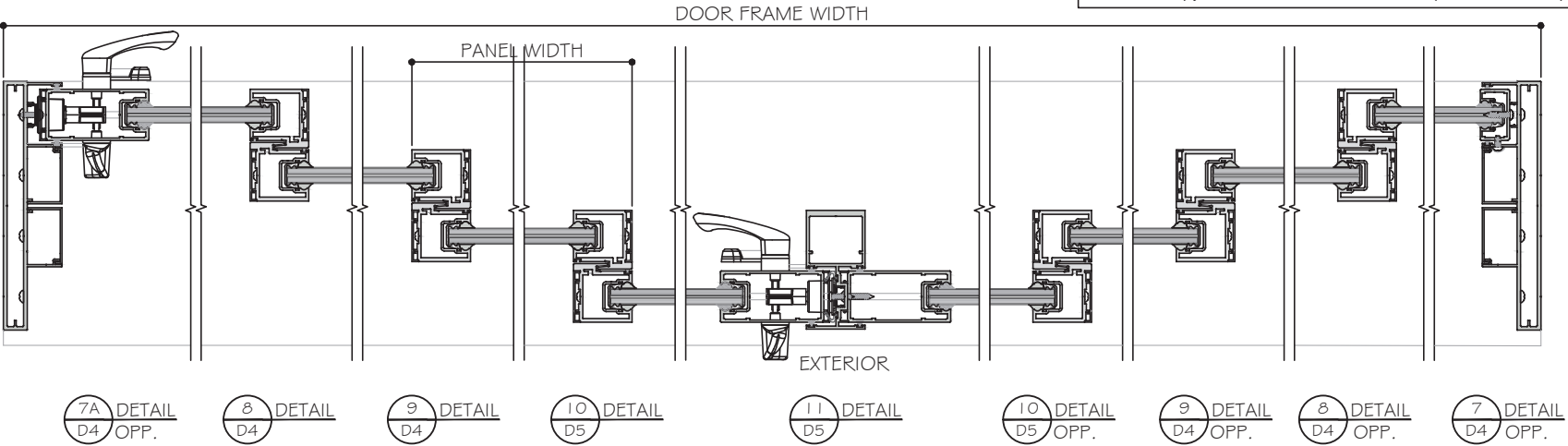
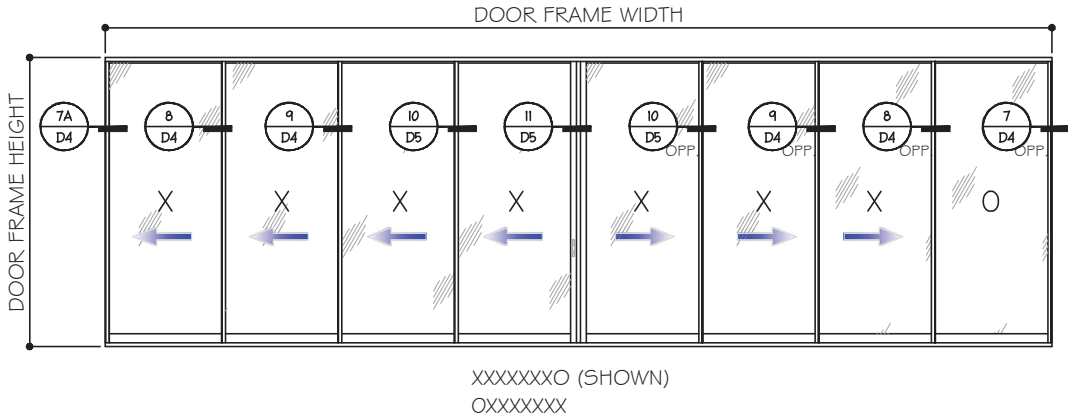
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Sheet No.

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

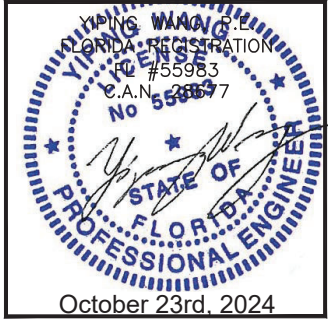


LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

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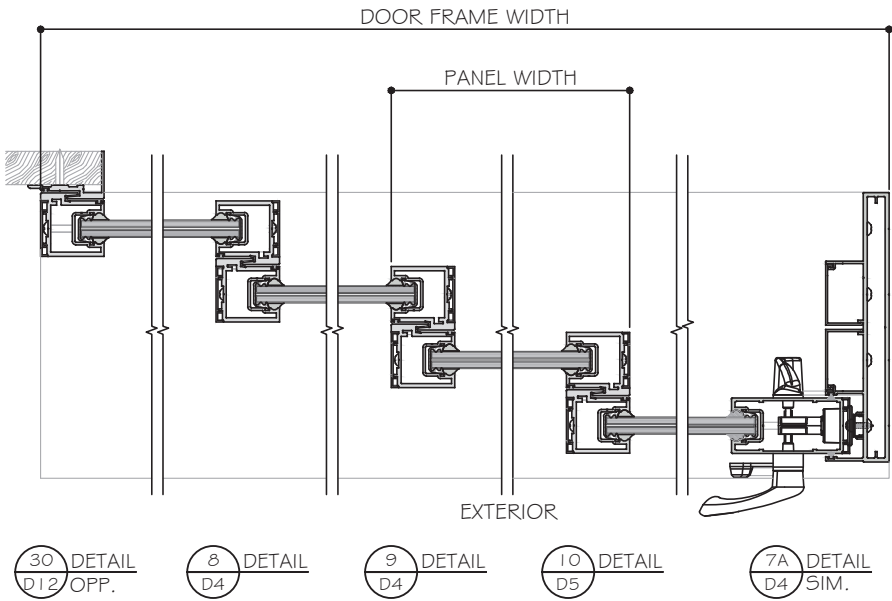
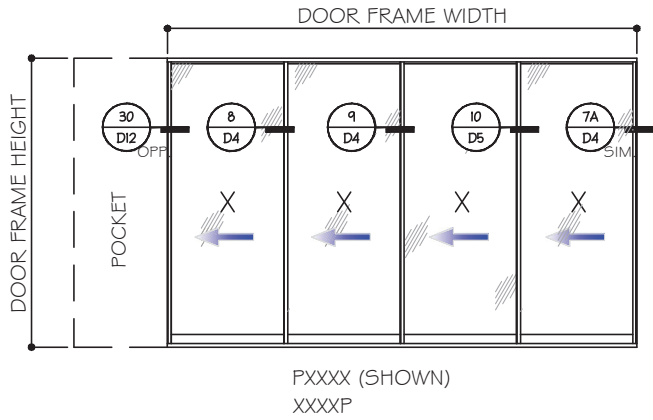
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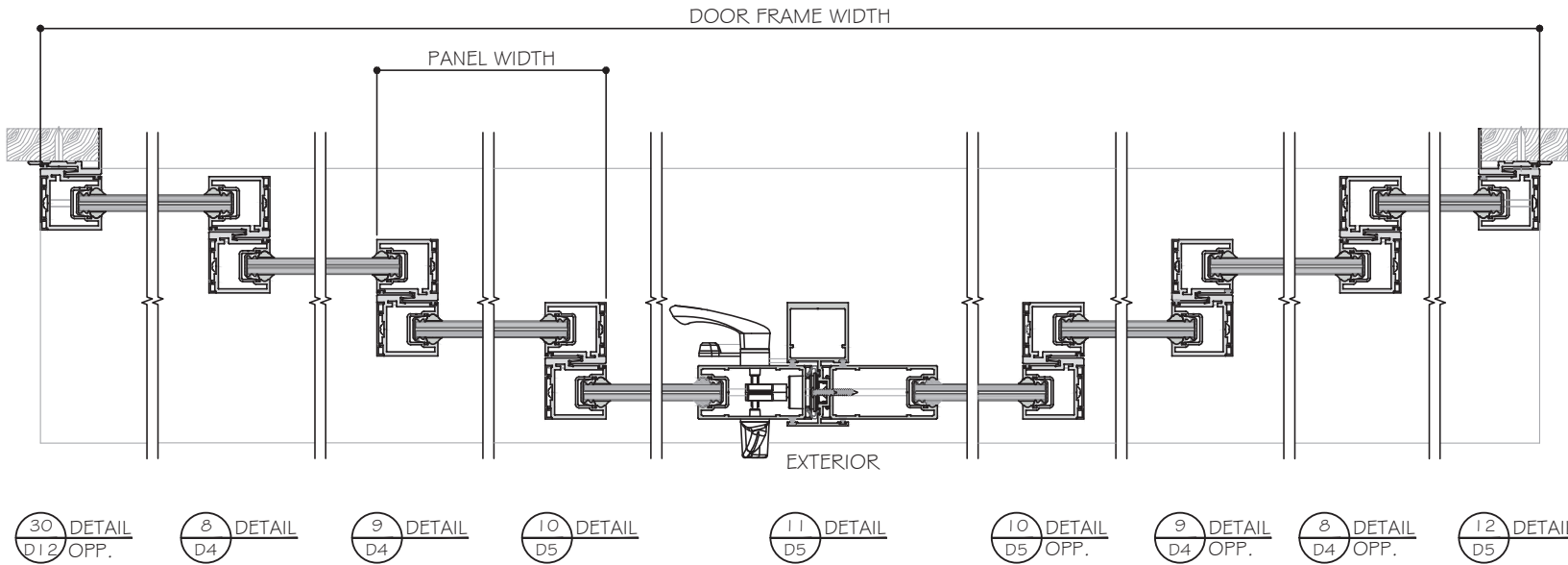
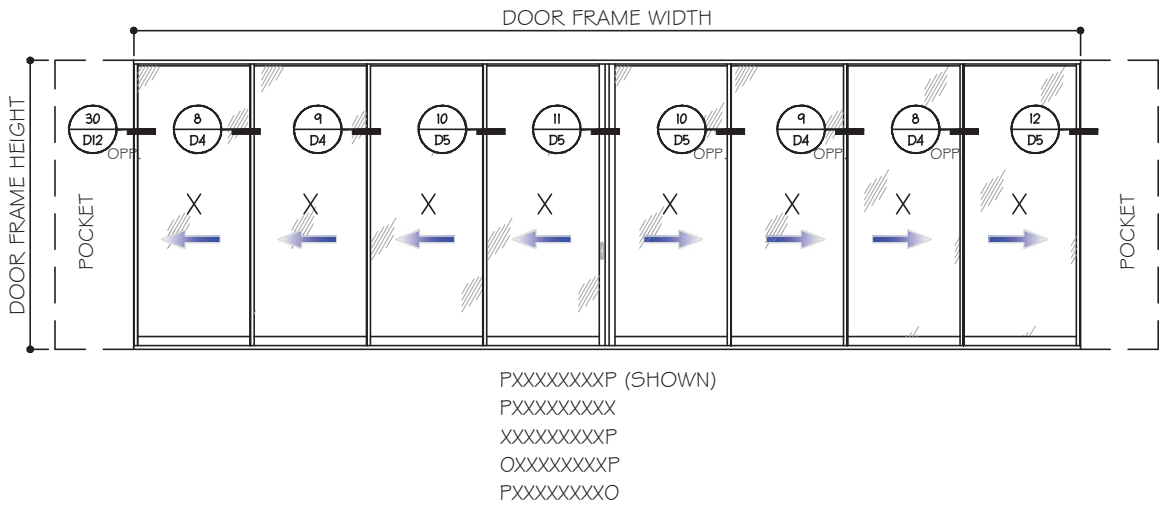
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APPROVED CONFIGURATION POCKETED DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



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

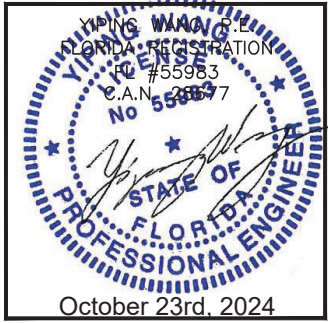
NON-REINFORCED DETAILS SHOWN.
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 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J4.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

FOUR (4) TRACKS

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



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Drawn Date

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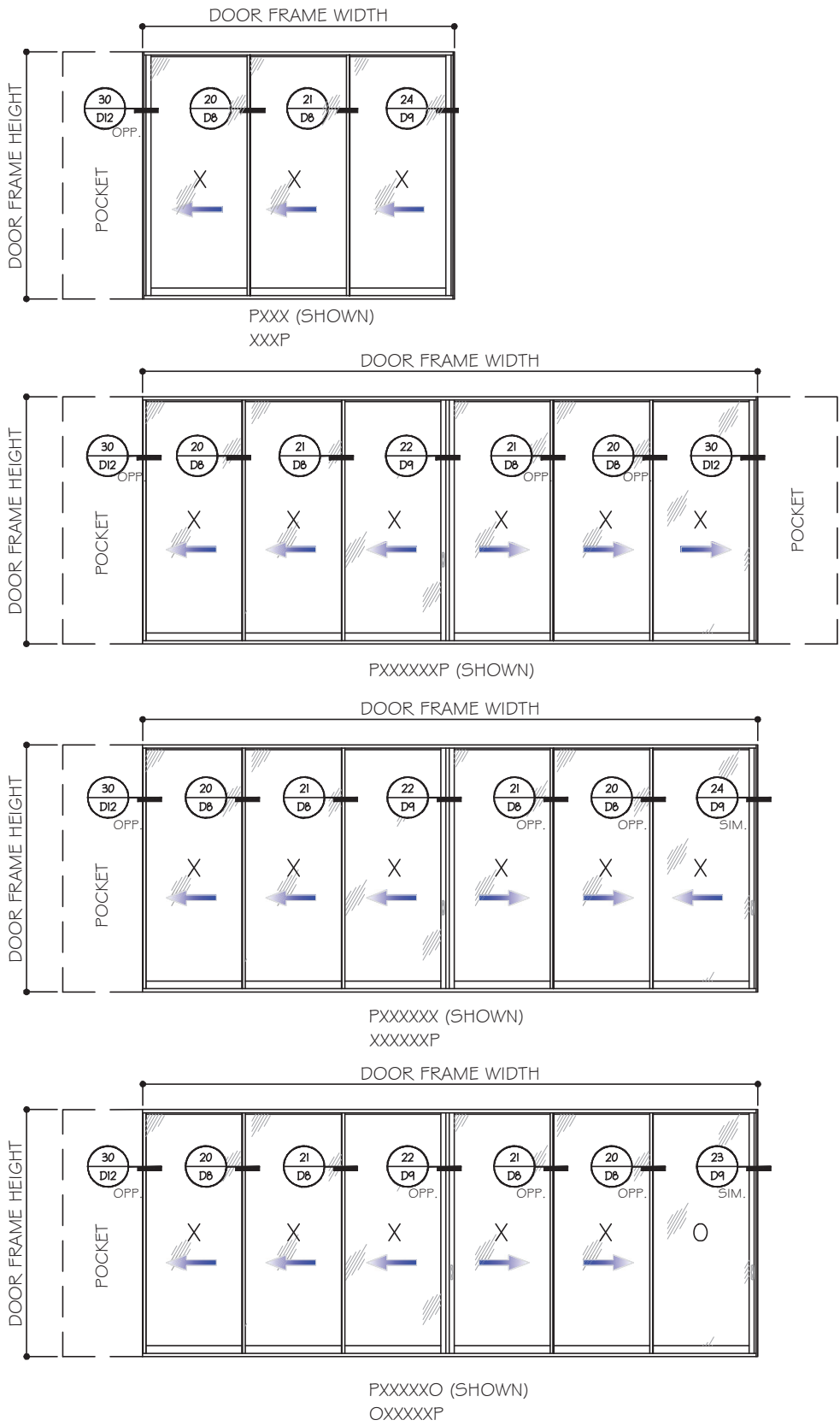
Sheet No.

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APPROVED CONFIGURATION POCKETED DOORS

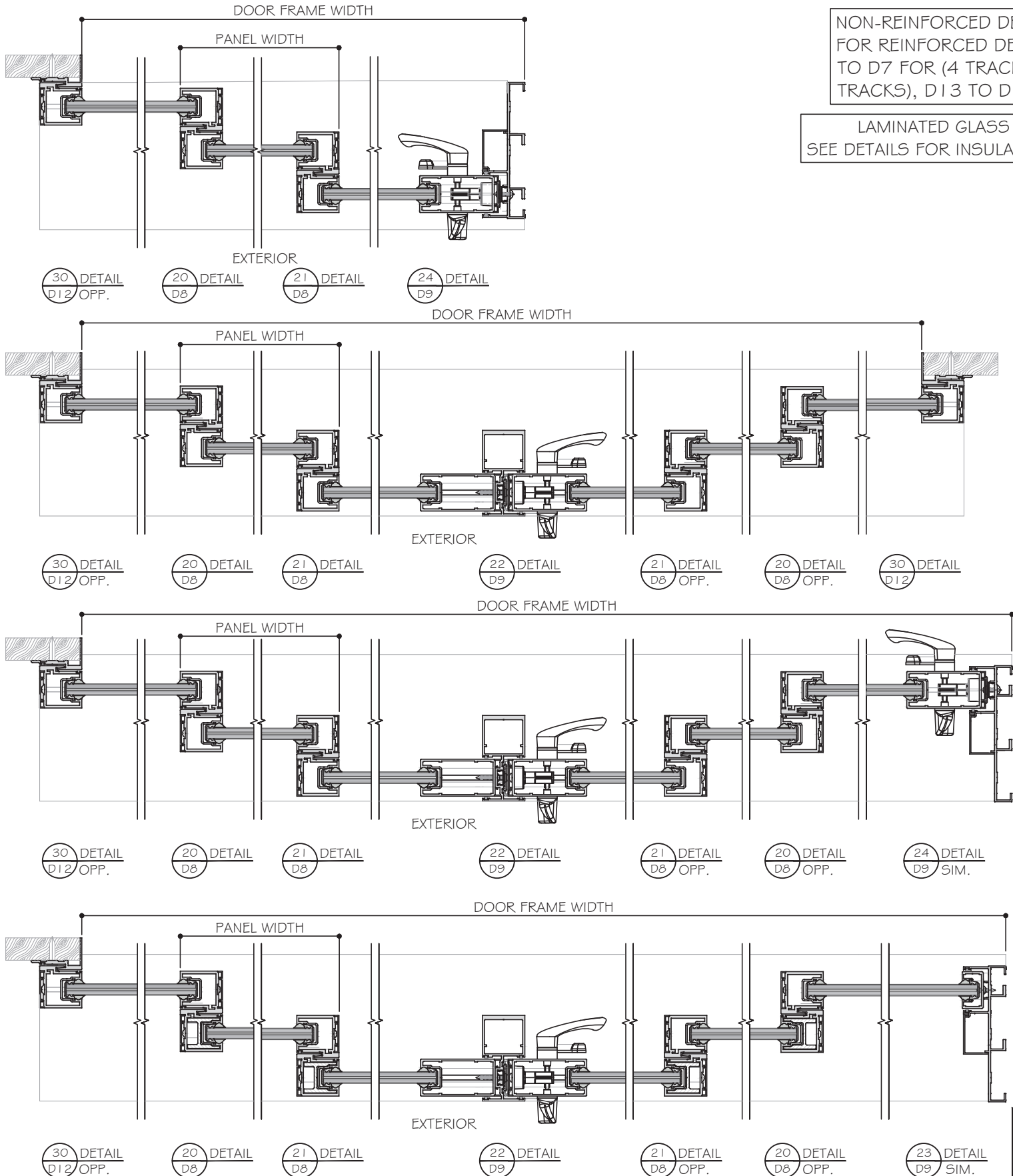
(NON-REINFORCED SHOWN)

SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



THREE (3) TRACKS

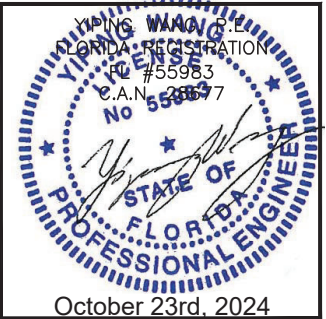
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LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.



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10653 NE Quaybridge Ct.

Miami, FL 33138

TEL: (305) 624-7775

Rev.	No.	Date	Drawn By	Description
1	0	10.08.2024	James	

Drawn Date

10.08.2024

Scale

DRAWING NO.

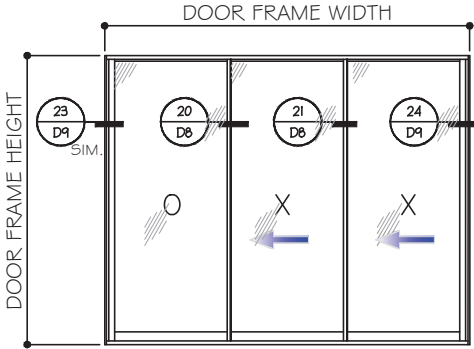
AD16-29

Sheet No.

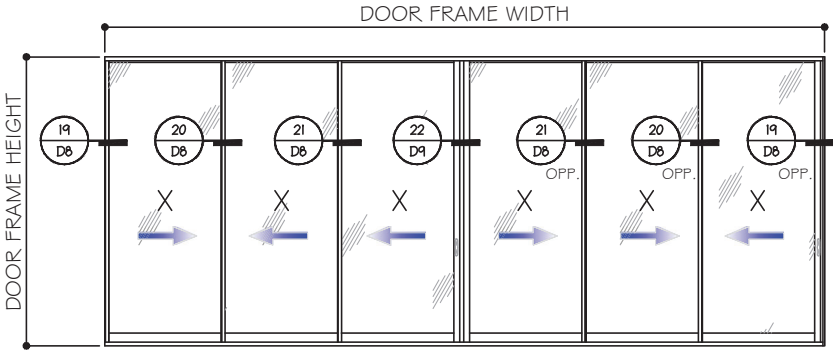
09 OF 59

E8

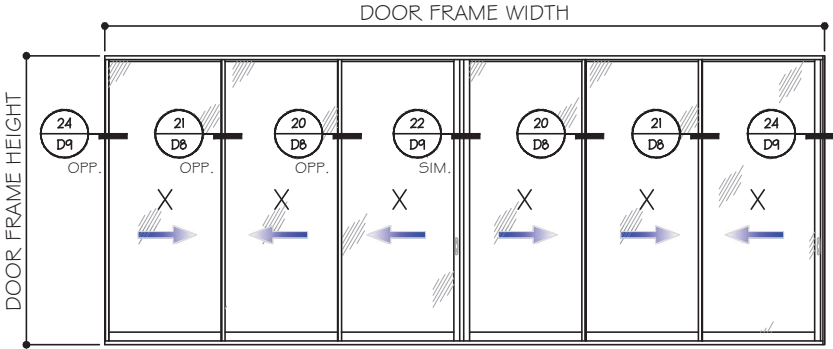
APPROVED CONFIGURATION DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



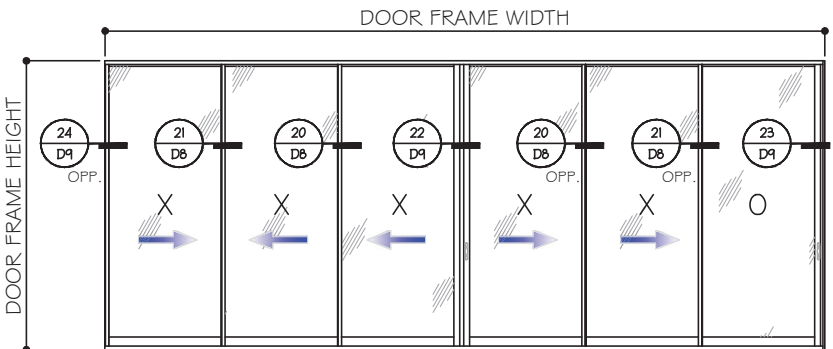
OXX (SHOWN)
XXO
XXX (# REVERSE)



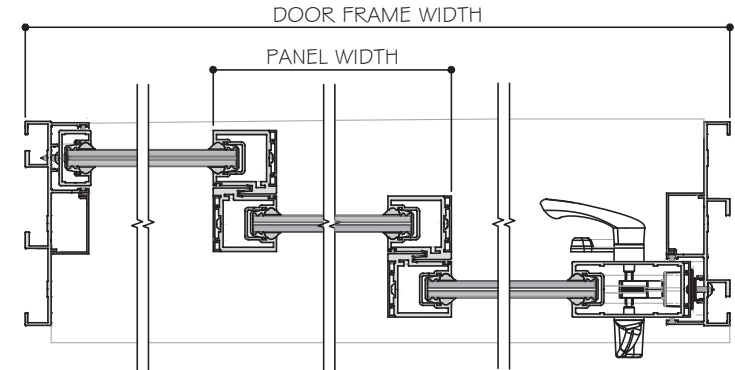
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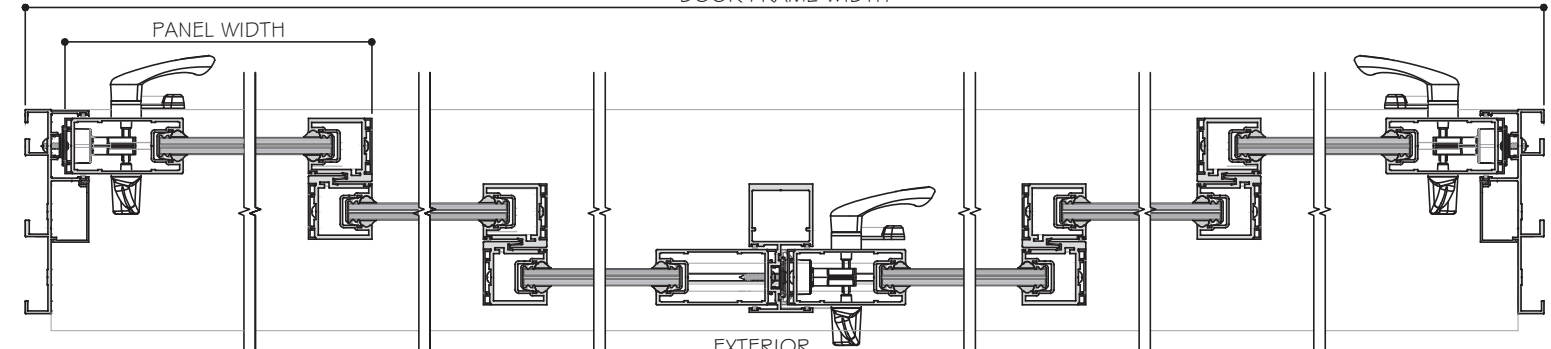
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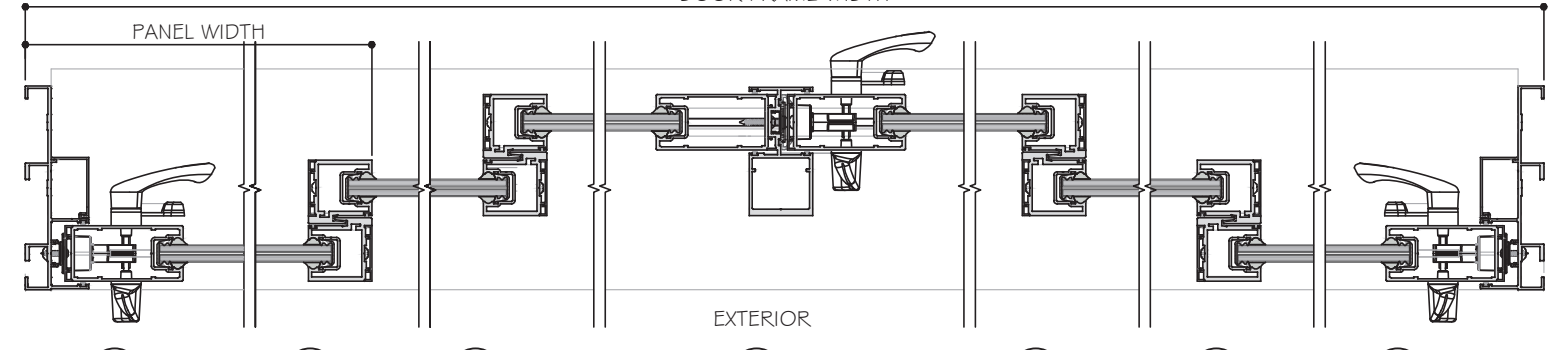
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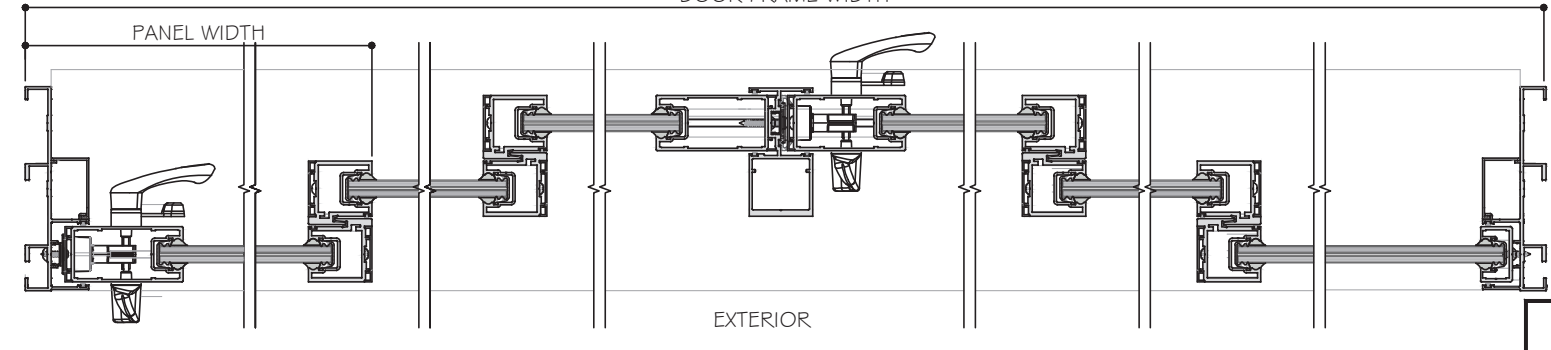
23 DETAIL D9 SIM. 20 DETAIL D8 21 DETAIL D8 24 DETAIL D9



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

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).

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

- 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.

THREE (3) TRACKS

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

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

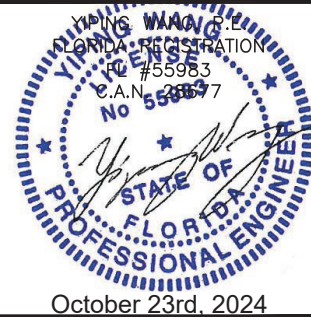
Drawn Date 10.08.2024 Scale

DRAWING NO.

AD16-29

E9

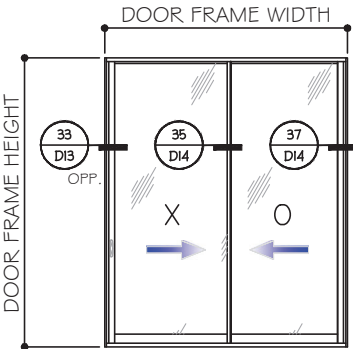
Sheet No. 10 OF 59



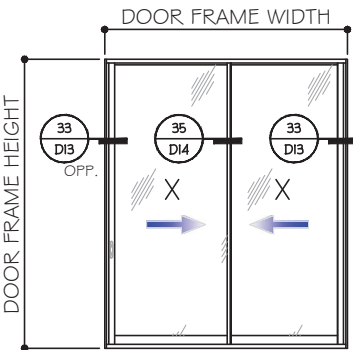
APPROVED CONFIGURATION DOORS

(NON-REINFORCED SHOWN)

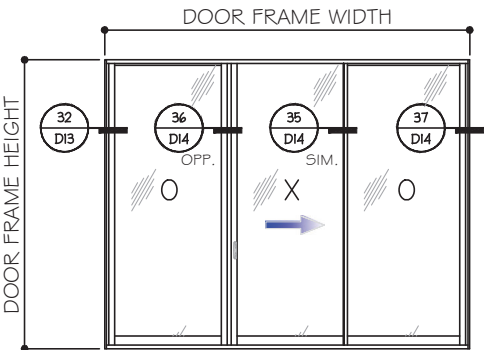
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



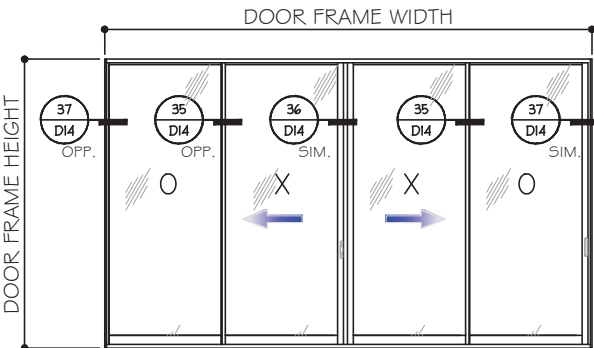
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OX



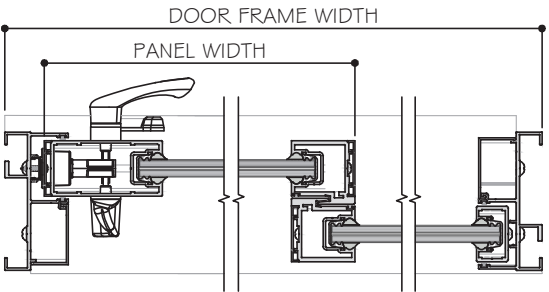
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OXO (SHOWN)
OXO (REVERSE)



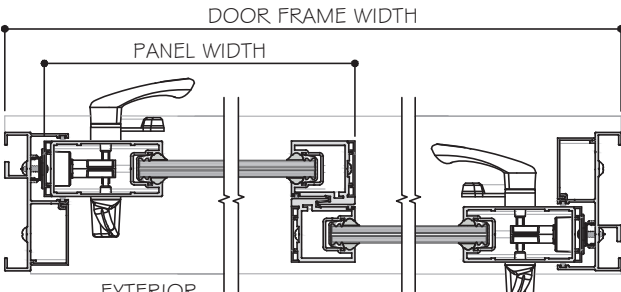
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(33) DETAIL
D13 OPP.

(35) DETAIL
D14

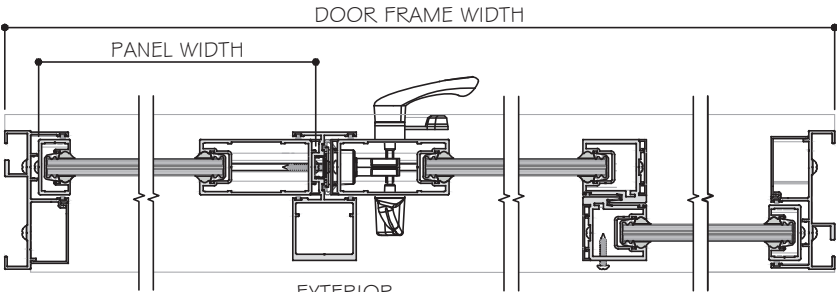
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D14



(33) DETAIL
D13 OPP.

(35) DETAIL
D14

(33) DETAIL
D13 SIM.

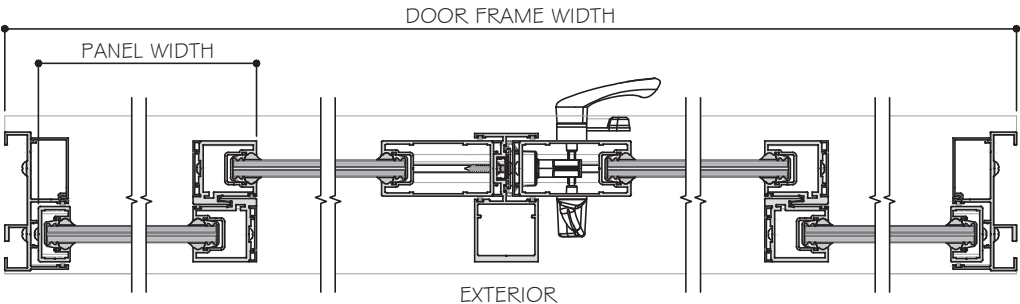


(32) DETAIL
D13

(36) DETAIL
D14 OPP.

(35) DETAIL
D14 SIM.

(37) DETAIL
D14



(37) DETAIL
D14 OPP.

(35) DETAIL
D14 OPP.

(36) DETAIL
D14 SIM.

(35) DETAIL
D14

(37) DETAIL
D14

NOTES:

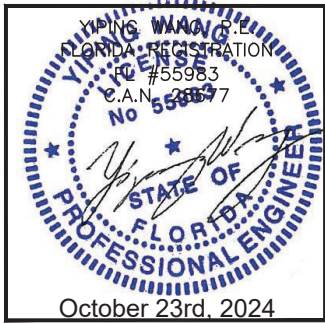
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K1.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.
5. FREE STANDING JAMB SEE OPTIONS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

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).

TWO (2) TRACKS

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MIRAMAR, FL 33027
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www.MCYEngineering.com mcy@mcyengineering.com

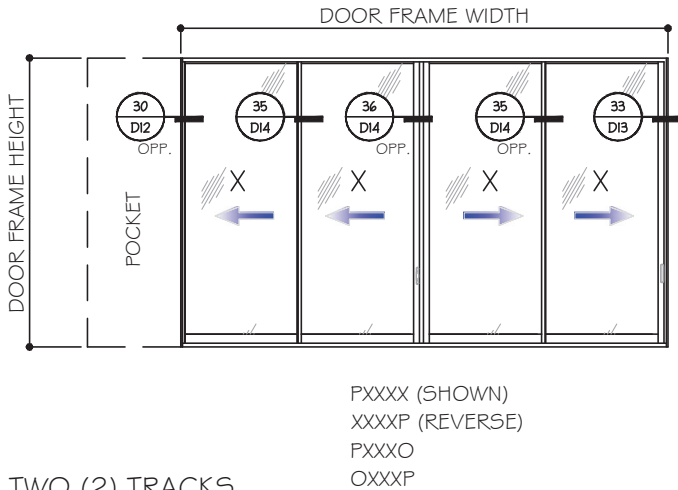
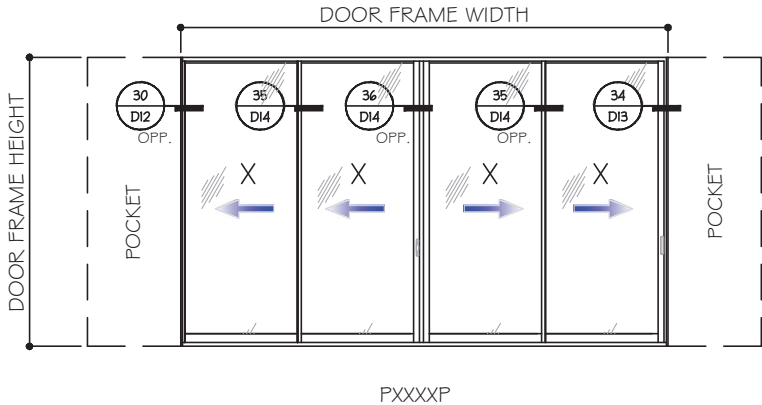
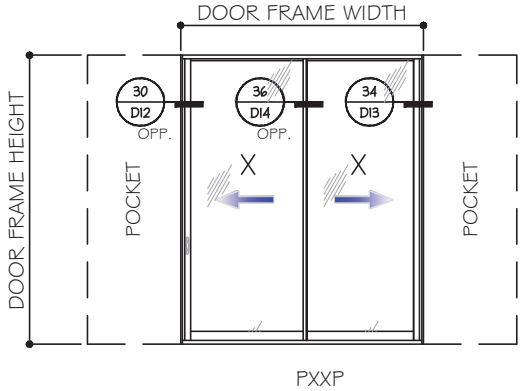
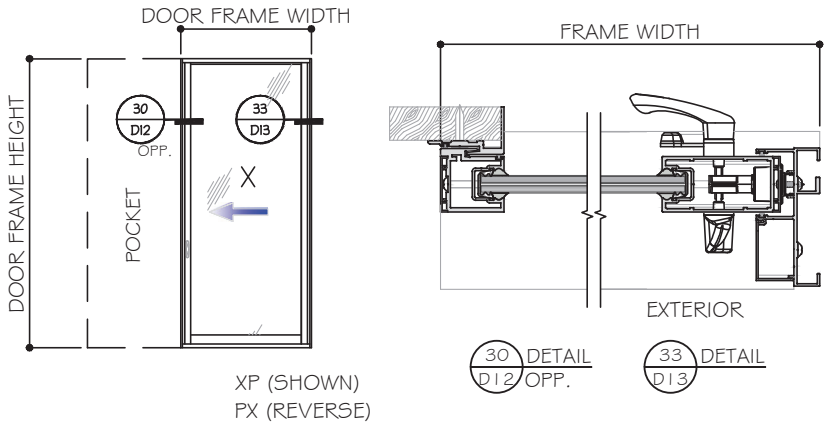
ES WINDOWS, INC.
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Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	REVISION
Drawn Date: 10.08.2024			
Scale			
DRAWING NO. AD16-29			
E10			
Sheet No. 11 OF 59			

APPROVED CONFIGURATION POCKETED DOORS

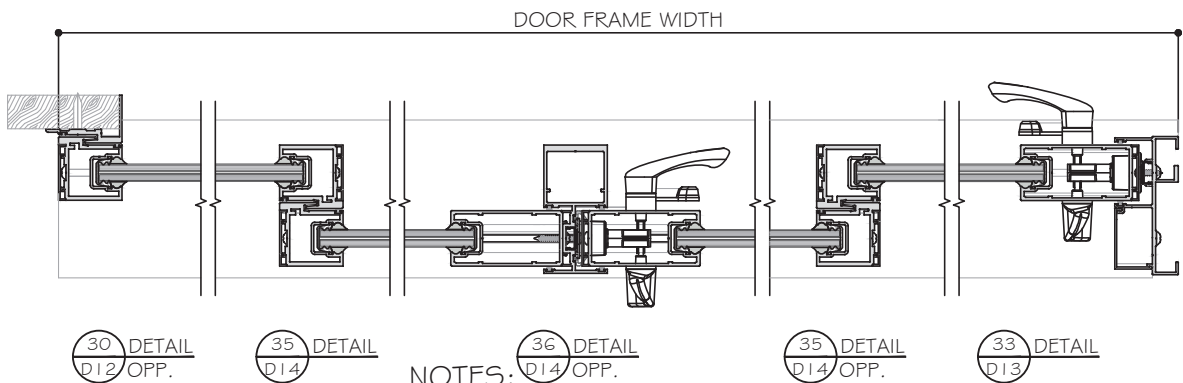
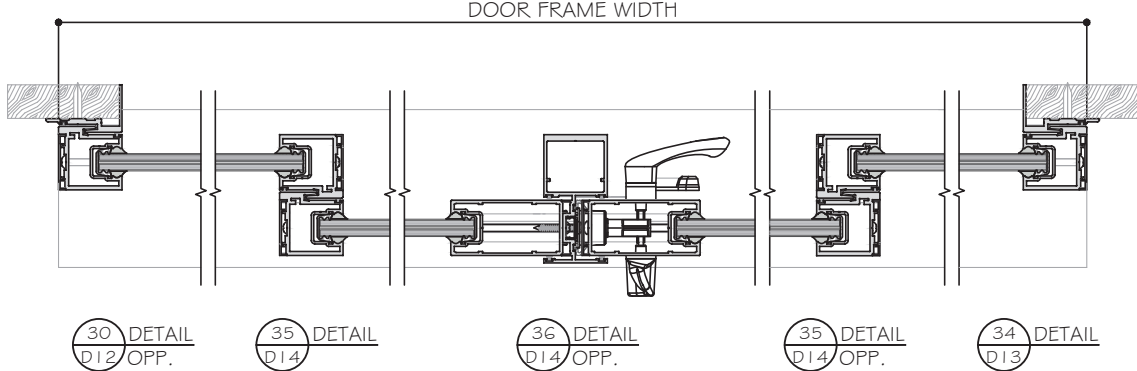
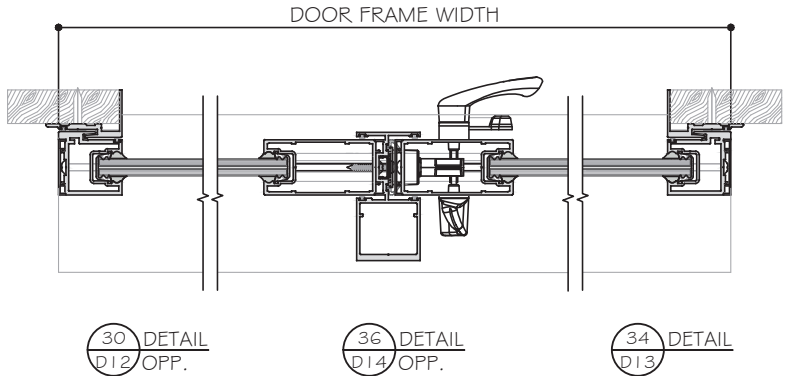
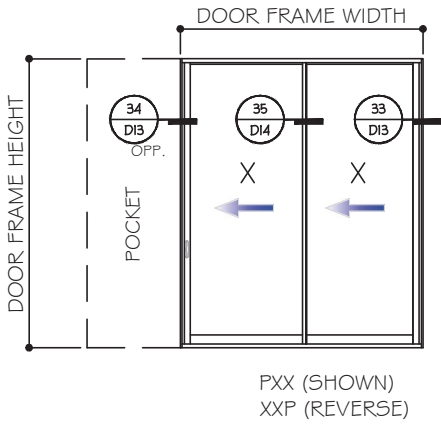
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SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



TWO (2) TRACKS

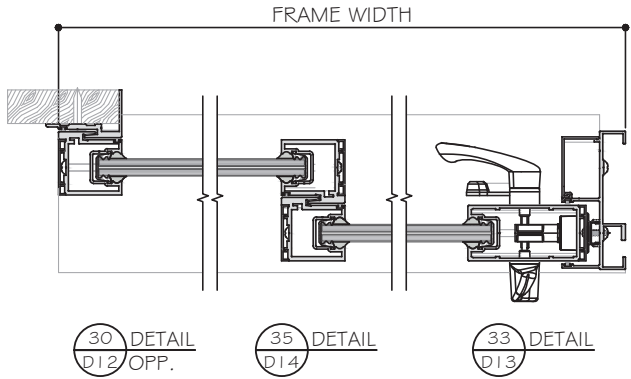
POCKETS ARE NOT PART OF THIS APPROVAL
AND ARE TO BE REVIEWED BY AHJ.



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.

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



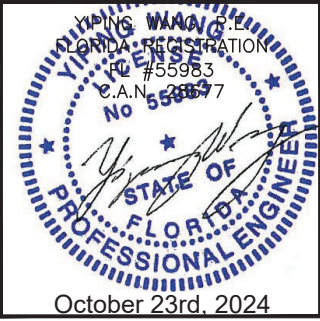
NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
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TRACKS), D13 TO D16 FOR (2 TRACKS).

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Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	
2			
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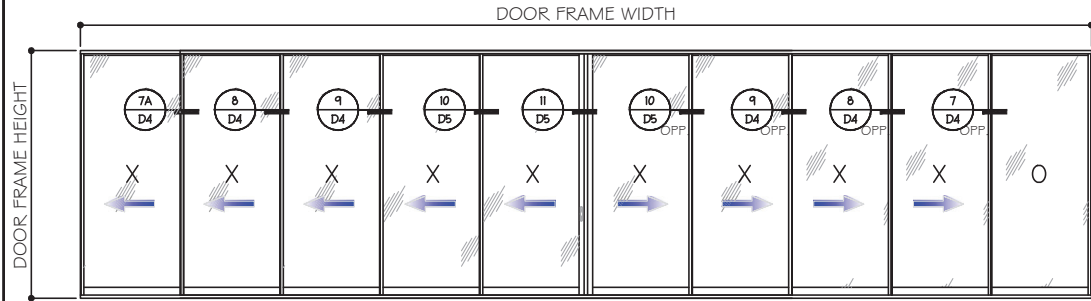
Drawn Date: 10.08.2024
Scale:
DRAWING NO. AD16-29
E11
Sheet No. 12 OF 59



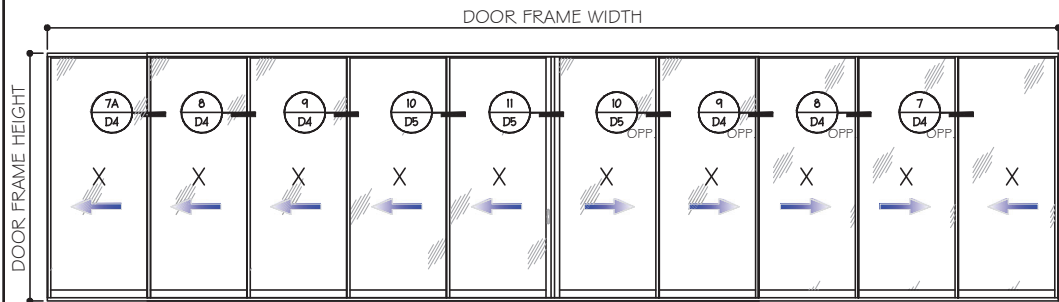
APPROVED CONFIGURATION POCKETED AND NO POCHET DOORS

(NON-REINFORCED SHOWN)

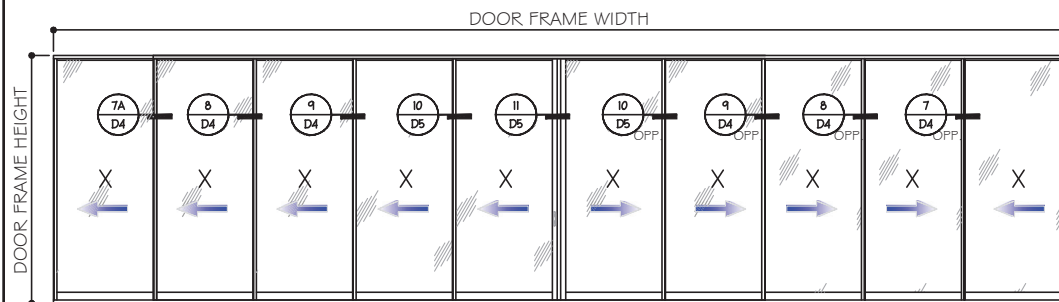
SEE SHEET K.I FOR D_p AND REINFORCING OPTIONS



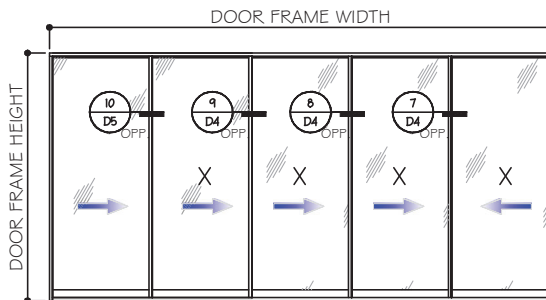
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XXXXXXXXO (SHOWN)
XXXXXXXXXX



XXXXXXXXO (SHOWN)
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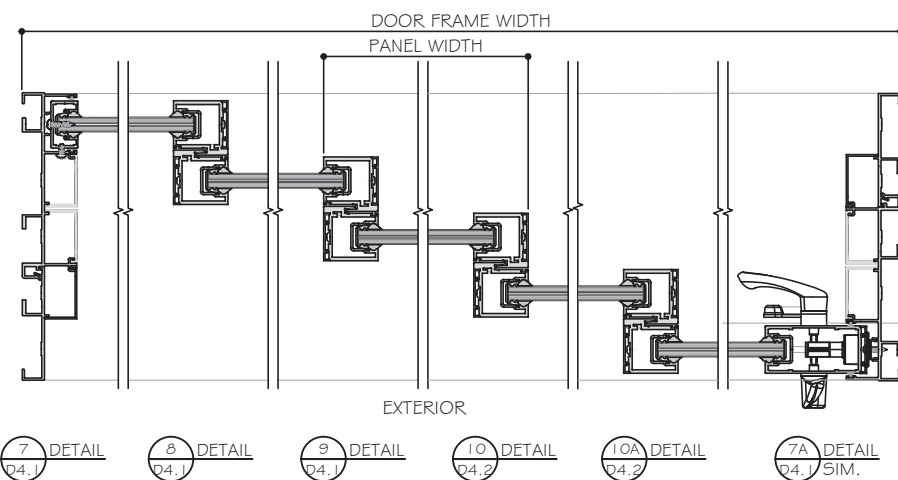
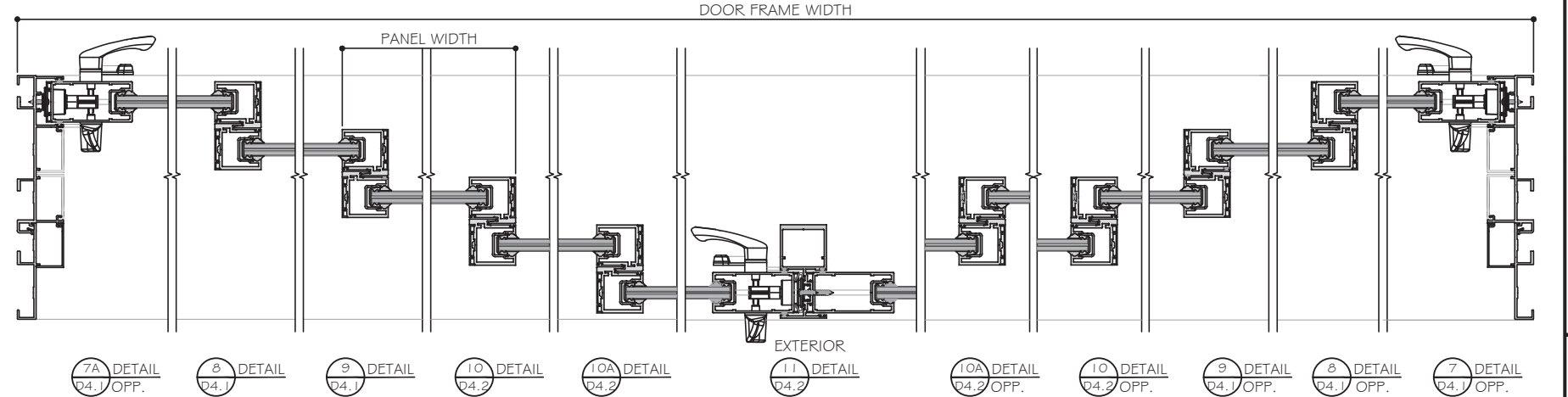
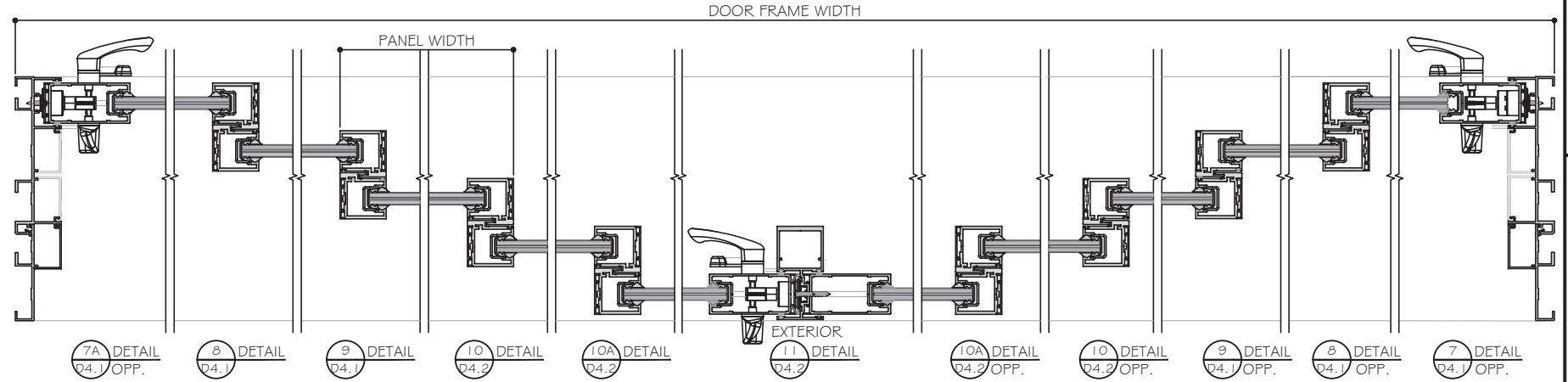
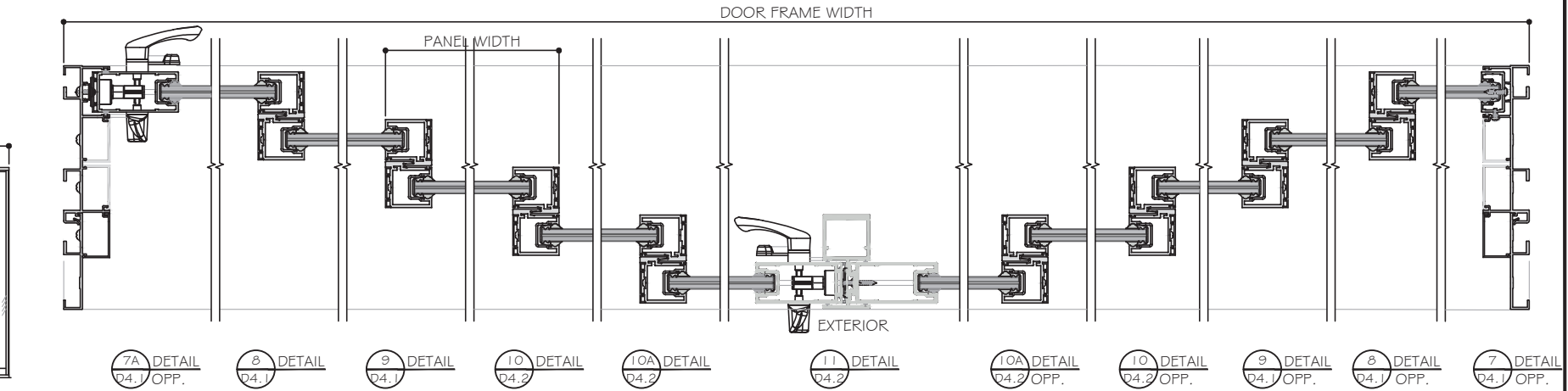
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FIVE (5) TRACKS

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

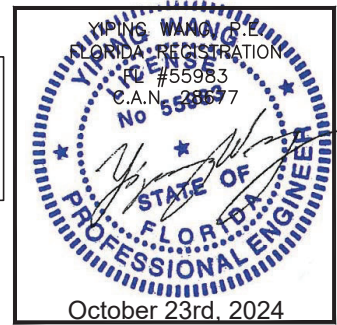
NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE CHART ON SHEET G.I FOR GLASS CAPACITIES AND GLASS OPTIONS.
3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K.I.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A.I TO A.8.
5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J.I TO J.4.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.



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).



ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

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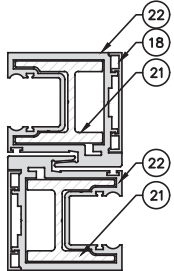
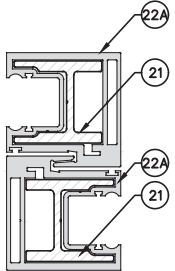
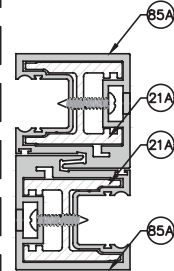
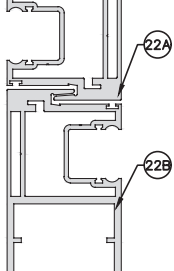
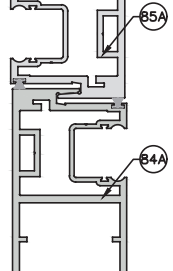
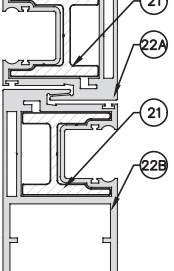
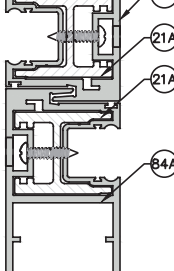
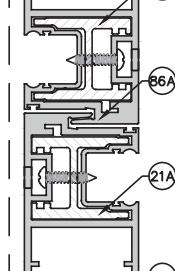
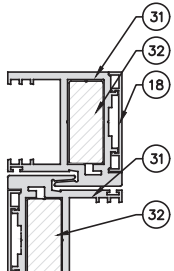
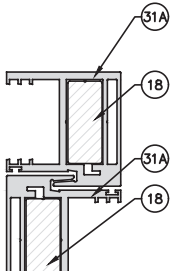
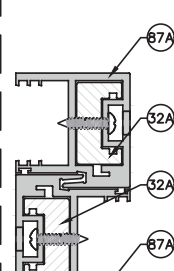
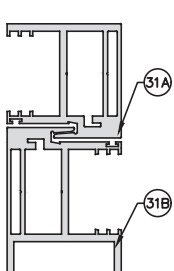
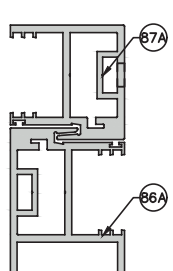
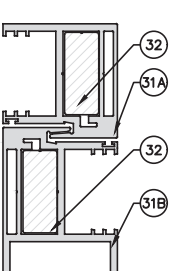
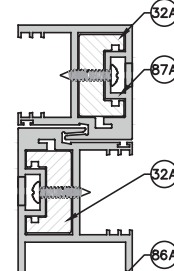
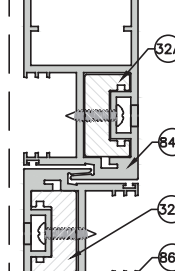
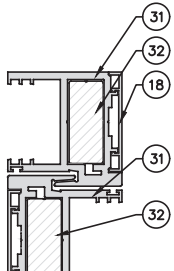
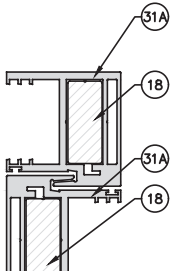
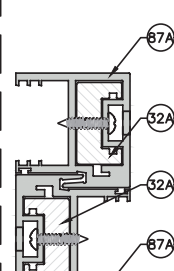
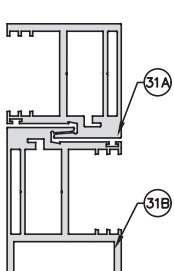
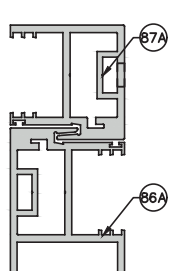
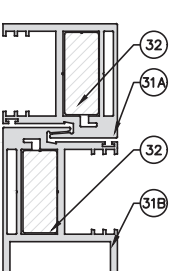
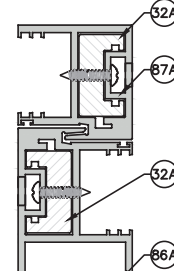
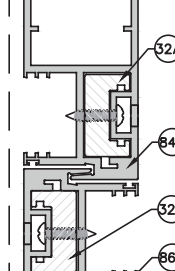
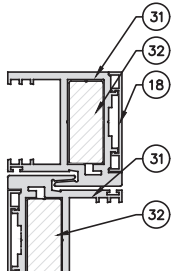
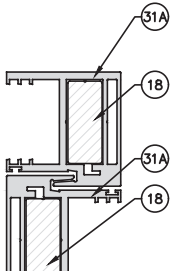
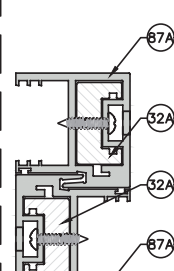
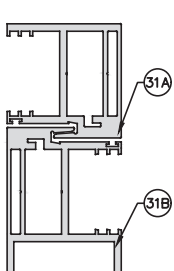
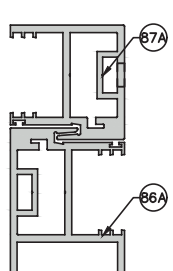
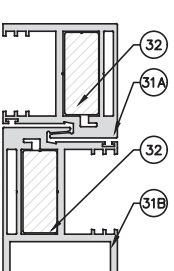
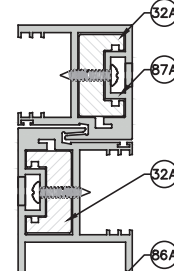
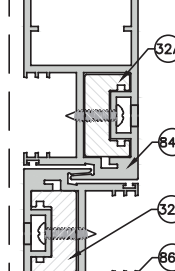
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AD16-29

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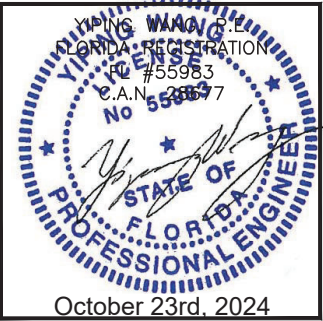
Sheet No.
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DESIGN LOAD CAPACITY - PSF				
SGD PANEL SIZES		LEVEL 1 (STD INTERLOCK W/ REINF.)	LEVEL 2 (BELLY INTERLOCK W/O REINF.)	LEVEL 3 (BELLY INTERLOCK W/ REINF.)
AVE. PANEL WIDTH	DOOR HEIGHT	PSF	PSF	PSF
(IN)	(IN)	+/-	+/-	+/-
36	102	+85.0/-100	65.0 / 78.0	90.0 / 150.0
42	102	+85.0/-100	65.0 / 78.0	90.0 / 150.0
48	102	+85.0/-100	65.0 / 78.0	90.0 / 150.0
54	102	+85.0/-100	65.0 / 78.0	90.0 / 150.0
60	102	+85.0/-100	65.0 / 78.0	90.0 / 102.0
66	102	+85.0/-100	65.0 / 78.0	90.0 / 102.0
72	102	-	65.0 / 78.0	90.0 / 102.0
36	108	+85.0/-100	65.0 / 78.0	90.0 / 150.0
42	108	+85.0/-100	65.0 / 78.0	90.0 / 150.0
48	108	+85.0/-100	65.0 / 78.0	90.0 / 150.0
54	108	+85.0/-100	65.0 / 78.0	90.0 / 102.0
60	108	+85.0/-100	65.0 / 78.0	90.0 / 102.0
66	108	+85.0/-100	65.0 / 78.0	90.0 / 102.0
72	108	-	65.0 / 78.0	90.0 / 102.0
36	114	+85.0/-100	65.0 / 78.0	90.0 / 150.0
42	114	+85.0/-100	65.0 / 78.0	90.0 / 150.0
48	114	+85.0/-100	65.0 / 78.0	90.0 / 150.0
54	114	+85.0/-100	65.0 / 78.0	90.0 / 102.0
60	114	+85.0/-100	65.0 / 78.0	90.0 / 102.0
66	114	-	65.0 / 78.0	90.0 / 102.0
72	114	-	65.0 / 78.0	90.0 / 102.0
36	120	+85.0/-100	65.0 / 78.0	90.0 / 150.0
42	120	+85.0/-100	65.0 / 78.0	90.0 / 150.0
48	120	+85.0/-100	65.0 / 78.0	90.0 / 150.0
54	120	+85.0/-100	65.0 / 78.0	90.0 / 102.0
60	120	+85.0/-100	65.0 / 78.0	90.0 / 102.0
66	120	-	65.0 / 78.0	90.0 / 102.0
72	120	-	65.0 / 78.0	90.0 / 102.0
36	126	-	65.0 / 78.0	85.0 / 102.0
42	126	-	65.0 / 78.0	85.0 / 102.0
48	126	-	65.0 / 78.0	85.0 / 102.0
54	126	-	65.0 / 78.0	85.0 / 102.0
60	126	-	65.0 / 78.0	85.0 / 102.0
66	126	-	65.0 / 78.0	85.0 / 102.0
36	132	-	65.0 / 78.0	85.0 / 102.0
42	132	-	65.0 / 78.0	85.0 / 102.0
48	132	-	65.0 / 78.0	85.0 / 102.0
54	132	-	65.0 / 78.0	85.0 / 102.0
60	132	-	65.0 / 78.0	85.0 / 102.0
66	132	-	65.0 / 78.0	85.0 / 102.0
36	138	-	65.0 / 78.0	85.0 / 102.0
42	138	-	65.0 / 78.0	85.0 / 102.0
48	138	-	65.0 / 78.0	85.0 / 102.0
54	138	-	65.0 / 78.0	85.0 / 102.0
60	138	-	65.0 / 78.0	85.0 / 102.0

DESIGN LOAD CAPACITY - PSF				
SGD PANEL SIZES		LEVEL 1 (STD INTERLOCK W/ REINF.)	LEVEL 2 (BELLY INTERLOCK W/O REINF.)	LEVEL 3 (BELLY INTERLOCK W/ REINF.)
AVE. PANEL WIDTH	DOOR HEIGHT	PSF	PSF	PSF
(IN)	(IN)	+/-	+/-	+/-
36	144	-	65.0 / 78.0	85.0 / 102.0
42	144	-	65.0 / 78.0	85.0 / 102.0
48	144	-	65.0 / 78.0	85.0 / 102.0
54	144	-	65.0 / 78.0	85.0 / 102.0
60	144	-	65.0 / 78.0	85.0 / 102.0

LEVEL 1 STD. INTERLOCKS W/ REINF.									LEVEL 2 BELLY INTERLOCKS W/O REINF.		LEVEL 3 BELLY INTERLOCKS W/ REINF.								
OPTION 1			OPTION 2			OPTION 3			OPTION 1		OPTION 2		OPTION 3						
LAMINATED GLASS																			
																			
INSULATED-LAMINATED GLASS																			
																			

AVE. PANEL WIDTH = $\frac{\text{FRAME WIDTH}}{\text{\# OF PANELS}}$



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Miami, FL 33138

TEL: (305) 624-7775

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

Drawn Date

10.08.2024

Scale

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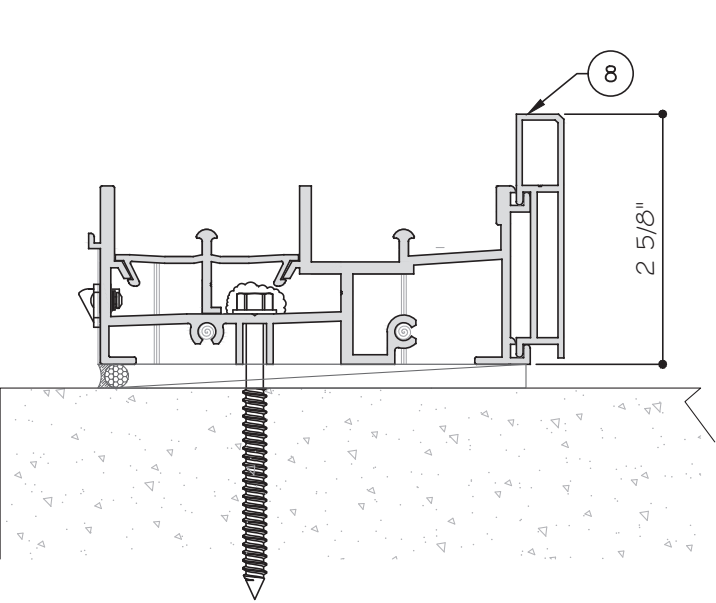
AD16-29

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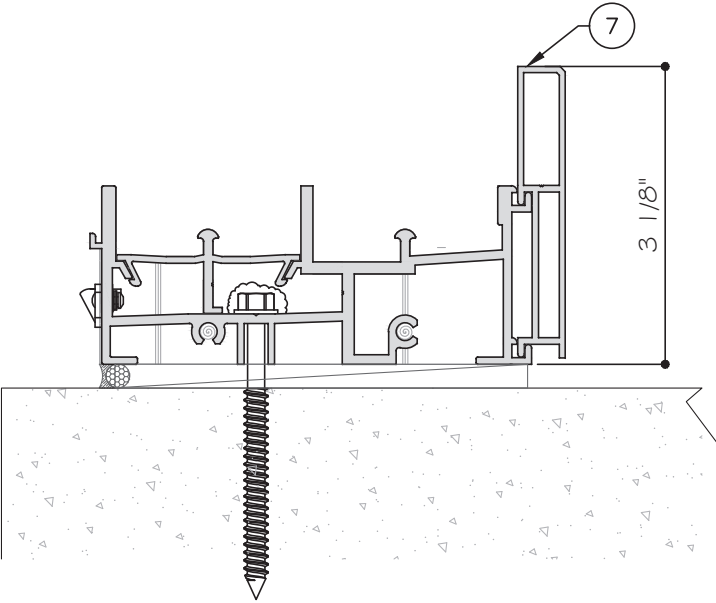
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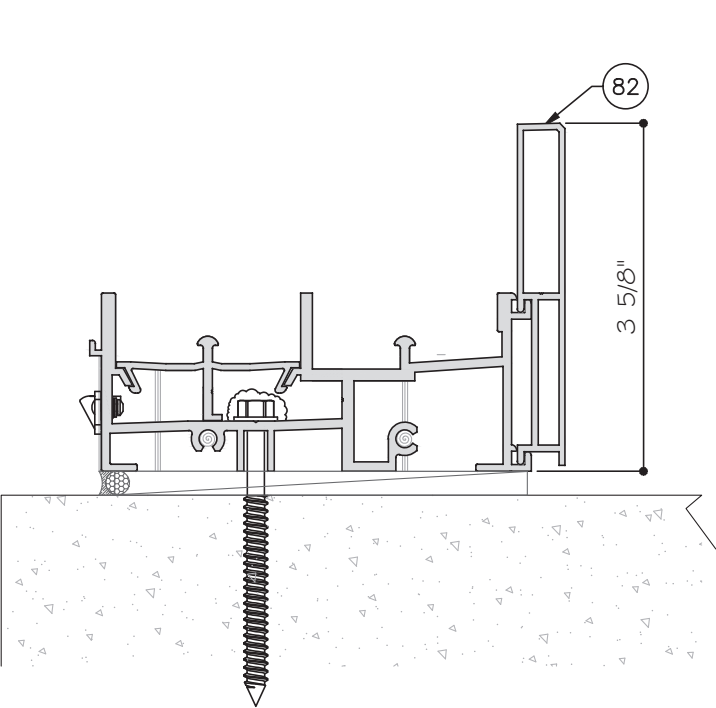
SILL RAISER OPTIONS (SHOWN ON 2 TRACK DOORS)
POSITIVE LOAD LIMITED AS FOLLOW DUE TO WATER INFILTRATION



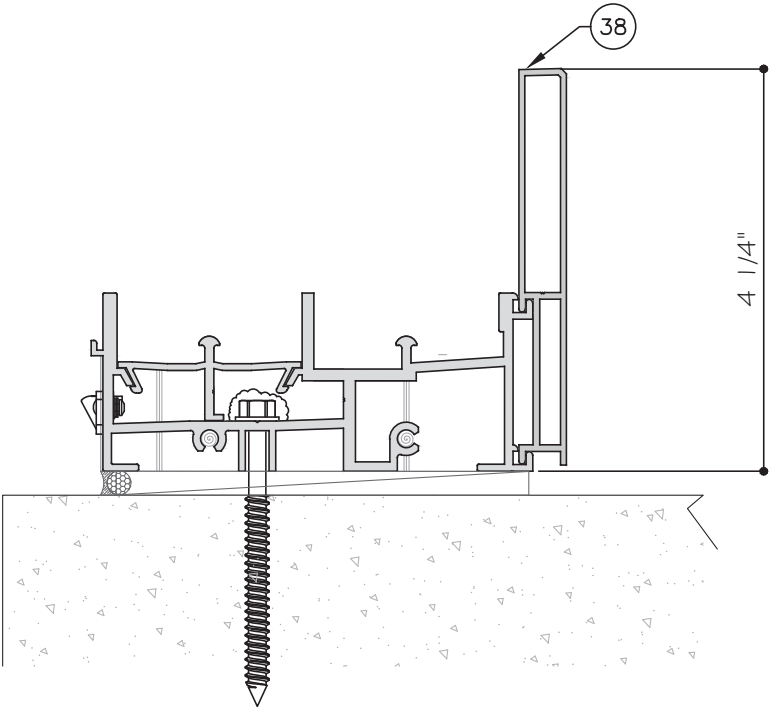
Pd MAX.= +53 PSF



Pd MAX.= +67 PSF



Pd MAX.= +80 PSF



Pd MAX.= +90 PSF



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M

C

Y

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Rev. No.	Date	Drawn By	Description
K2	10.08.2024	James	

Drawn Date

10.08.2024

Scale

DRAWING NO.

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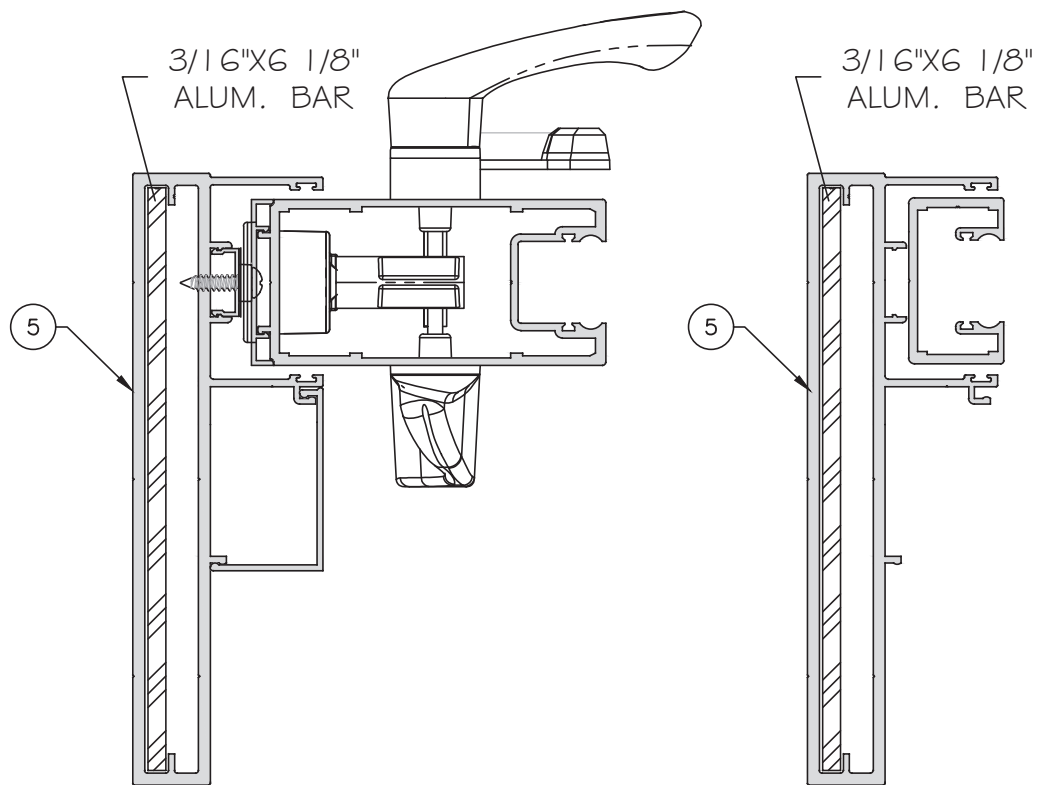
Sheet No.

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3 TRACK F.STANDING JAMB CAPACITY - PSF			
SGD PANEL SIZES		JAMB W/ ALUM REINF. (J3)	
AVE. PANEL WIDTH	DOOR HEIGHT	PSF	PSF
(IN)	(IN)	+	-
60	84	85	102
66		85	102
72		85	102
78		85	102
84		85	102
60	90	85	102
66		85	102
72		85	102
78		85	102
84		85	102
60	96	85	102
66		85	102
72		85	102
78		85	102
84		85	102
36	102	85	102
42		85	102
48		85	102
54		85	102
60		85	102
66		85	102
72		85	102
78		85	102
84		85	102
36	108	85	102
42		85	102
48		85	102
54		85	102
60		85	102
66		85	102
72		85	102
78	114	85	102
36		85	102
42		85	102
48		85	102
54		85	102
60		85	102
66		85	102
72	85	102	

3 TRACK DESIGN LOAD JAMB CAPACITY - PSF			
SGD PANEL SIZES		JAMB W/ ALUM REINF. (J3)	
PANEL WIDTH	DOOR HEIGHT	PSF	PSF
(IN)	(IN)	+	-
36	120	85	102
42		85	102
48		85	102
54		85	102
60		85	102
66		85	102
72		85	102
36	126	85	102
42		85	102
48		85	102
54		85	102
60		85	102
66		85	102
36	132	85	102
42		85	102
48		85	102
54		85	102
60		85	102
36	138	85	102
42		85	102
48		85	102
54		85	102
60		85	98
36	144	85	102
42		85	102
48		85	102
54		85	99
60		85	90

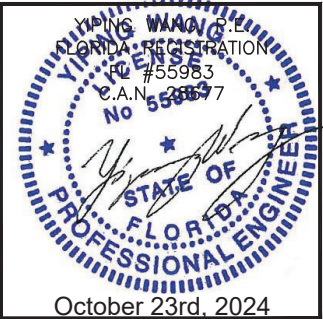
$$\text{AVE. PANEL WIDTH} = \frac{\text{FRAME WIDTH}}{\# \text{ OF PANELS}}$$



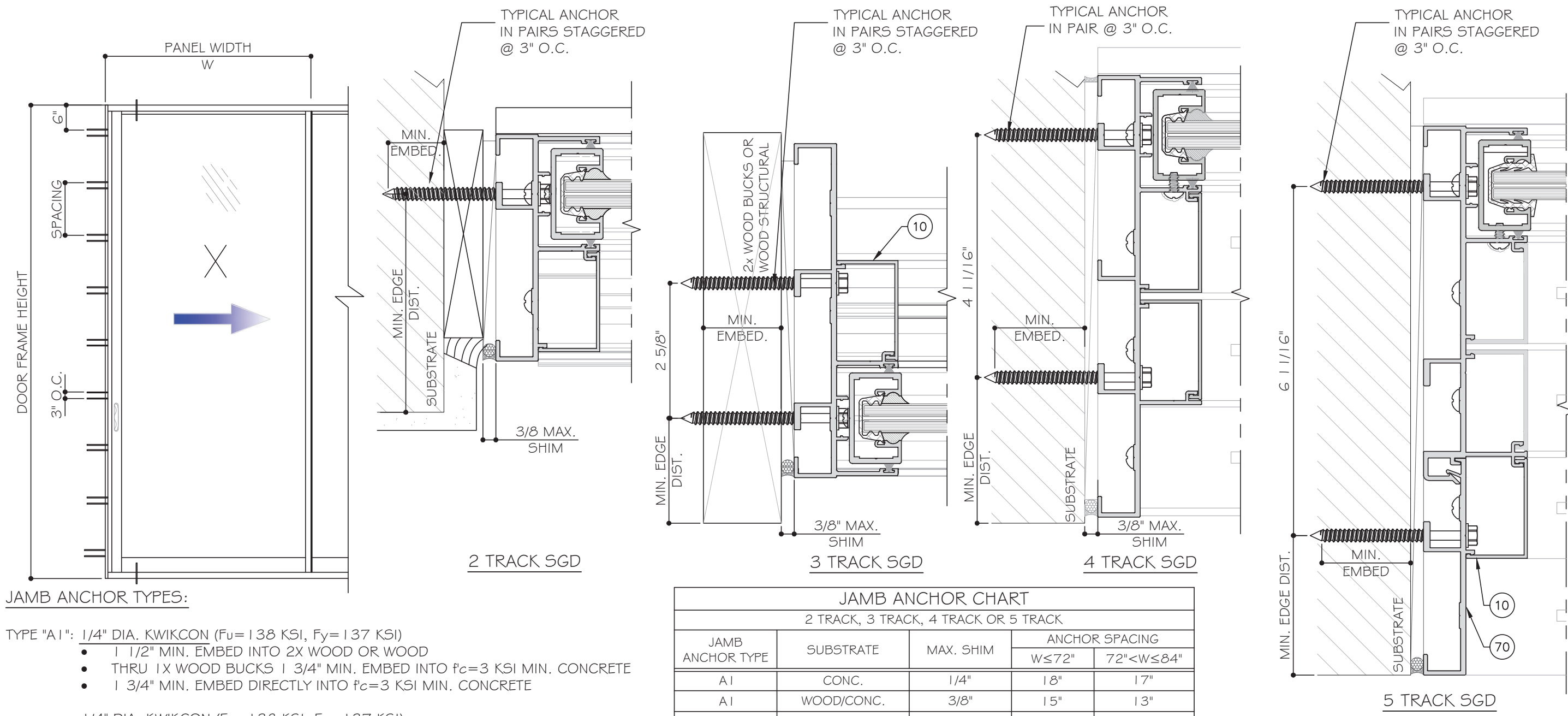
JAMB W/ LOCK STILE
REINF.

JAMB W/ FIX STILE
REINF.

NOTE: STYLE SHOWN FOR LAMINATED GLASS OPTION ONLY. CHART COVERS BOTH INSULATED LAMINATED AND LAMINATED GLASS OPTIONS.



 MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL. 33027 P: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com					
ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)					
ES WINDOWS, INC. 10653 NE Quaybridge Ct. Miami, FL 33138 TEL. (305) 624-7775					
				JAMES	REVISION
			10.08.2024	Date	Drawn By
			Rev. No.	Description	
Drawn Date 10.08.2024			Scale		
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JAMB ANCHOR TYPES:

TYPE "A1": 1/4" DIA. KWIKCON ($F_u = 138$ KSI, $F_y = 137$ KSI)

- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD
- THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO $f'_c = 3$ KSI MIN. CONCRETE
- 1 3/4" MIN. EMBED DIRECTLY INTO $f'_c = 3$ KSI MIN. CONCRETE

1/4" DIA. KWIKCON ($F_u = 138$ KSI, $F_y = 137$ KSI)

- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD
- THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO $f'_c = 3$ KSI MIN. CONCRETE
- 1 3/4" MIN. EMBED DIRECTLY INTO $f'_c = 3$ KSI MIN. CONCRETE

TYPE "B1": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164$ KSI, $F_y = 148$ KSI)

- 1 1/2" MIN. EMBED INTO 2X WOOD OR WOOD
- THRU 1X WOOD BUCKS 1 3/4" MIN. EMBED INTO $f'_c = 3$ KSI MIN. CONCRETE
- 1 3/4" MIN. EMBED DIRECTLY INTO $f'_c = 3$ KSI MIN. CONCRETE

TYPE "C1": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ($F_u = 120$ KSI, $F_y = 92$ KSI) INTO METAL STRUCTURE

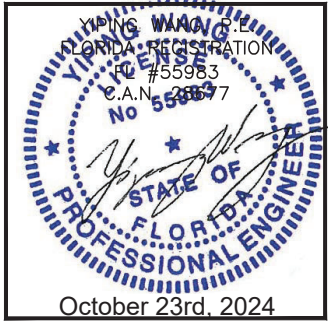
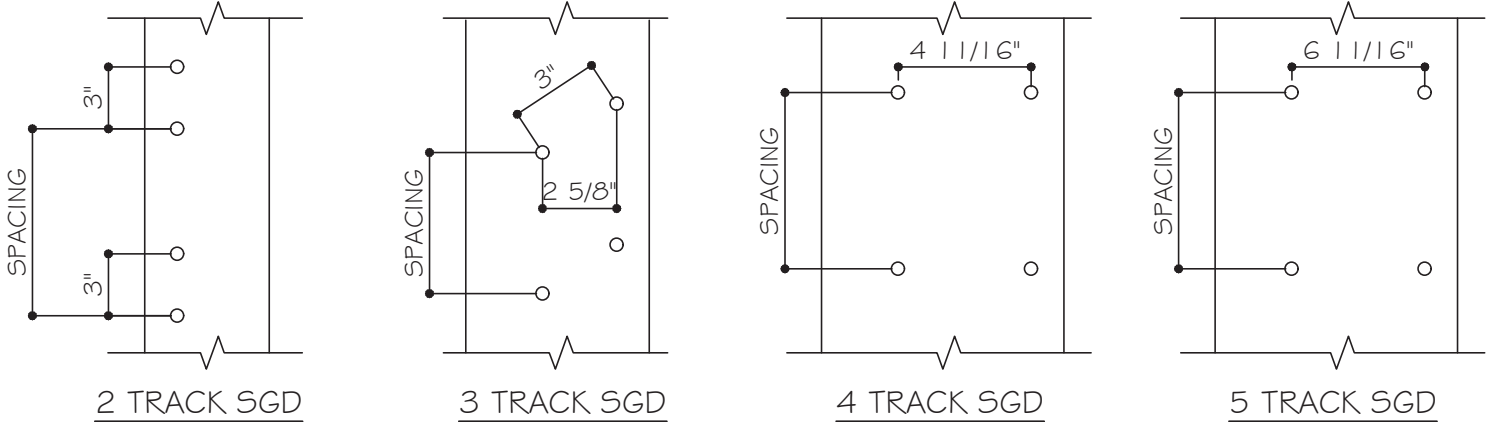
TYPE "D1": 5/16" TEKS/DRIL-FLEX SCREW ($F_u = 120$ KSI, $F_y = 92$ KSI) INTO METAL STRUCTURE

ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI, MIN.)
STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

MIN. EDGE DISTANCE: CONCRETE 2 1/2" WOOD: 1" METAL: 1"

JAMB ANCHOR CHART				
2 TRACK, 3 TRACK, 4 TRACK OR 5 TRACK				
JAMB ANCHOR TYPE	SUBSTRATE	MAX. SHIM	ANCHOR SPACING	
			$W \leq 72"$	$72" < W \leq 84"$
A1	CONC.	1/4"	18"	17"
A1	WOOD/CONC.	3/8"	15"	13"
A1	WOOD/C90 BLOCK	3/8"	13"	11"
B1	CONC.	3/8"	18"	17"
B1	WOOD/CONC.	3/8"	13"	11"
C1	1/8" THK. METAL(6063-T5)	1/4"	18"	18"
C1		3/8"	13"	11"
D1		3/8"	18"	18"

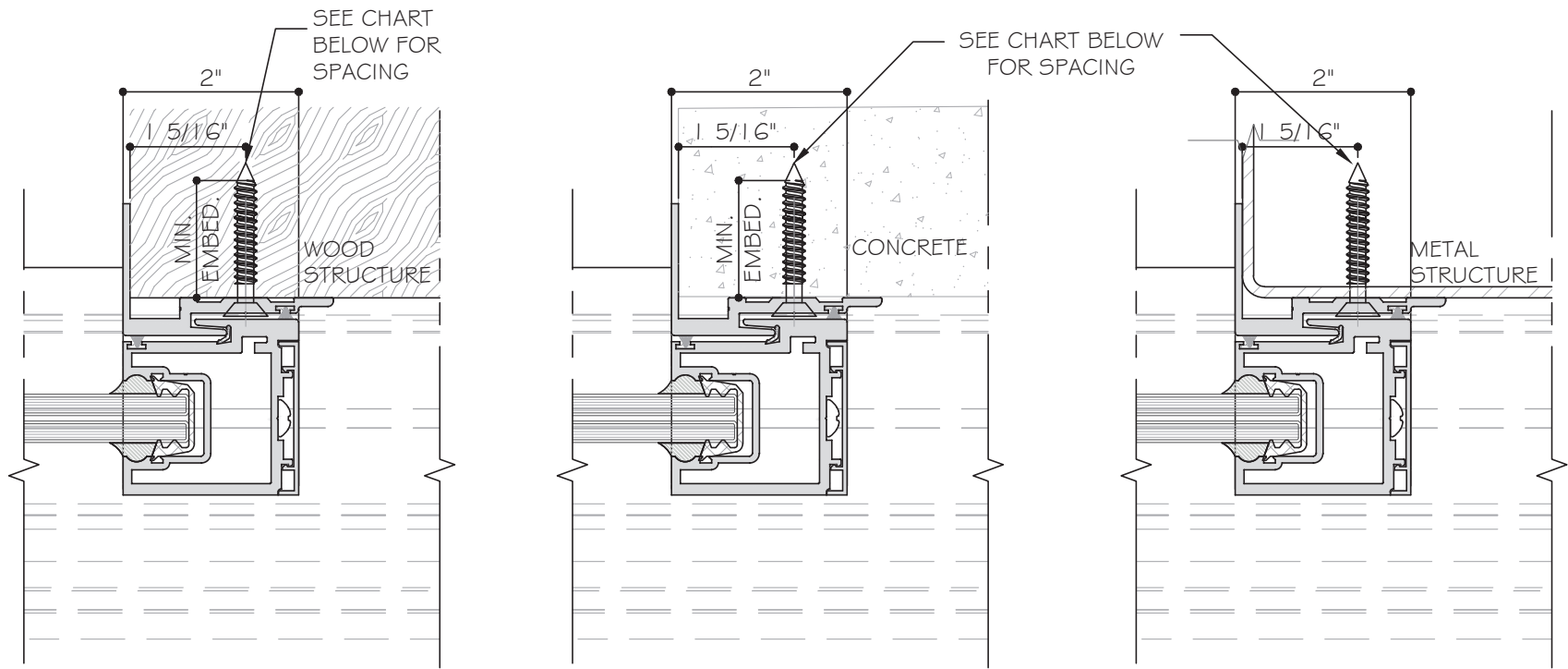
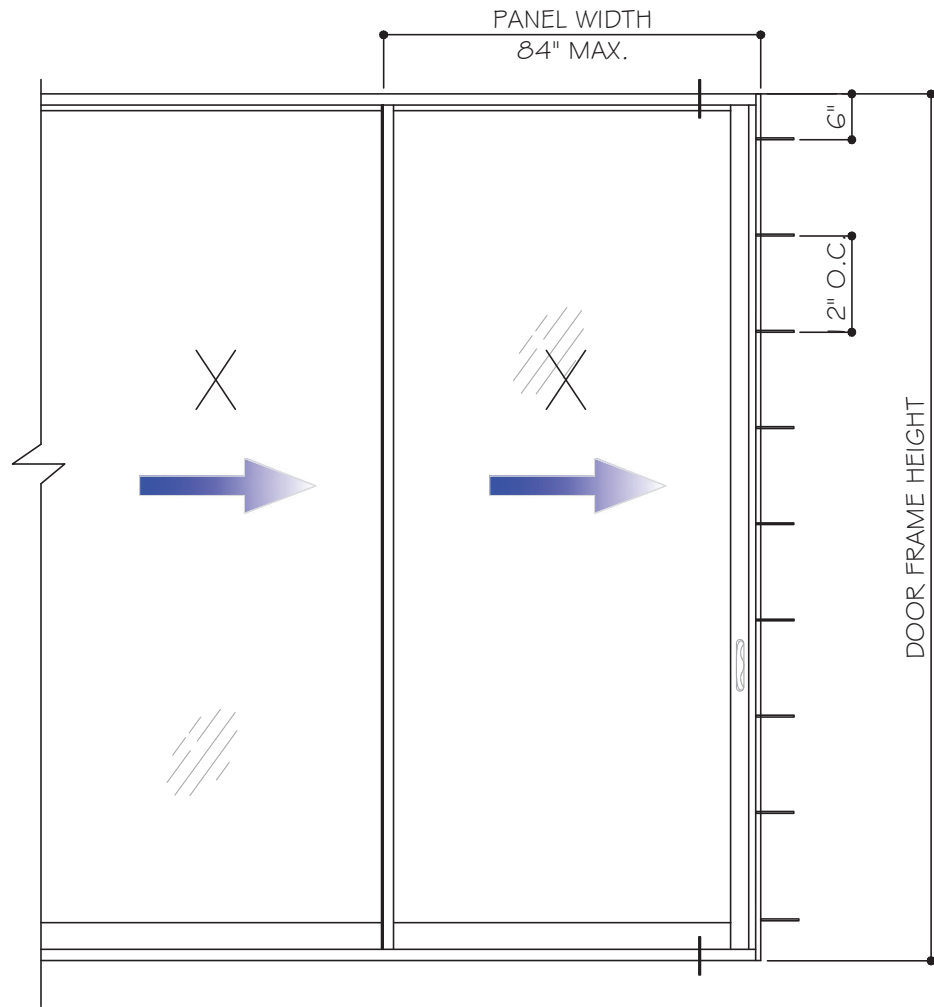
NOTE:
WOOD BUCKS/ METAL STRUCTURES BY OTHERS
MUST BE PROPERLY SECURED TO SUPPORT
LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURES.



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

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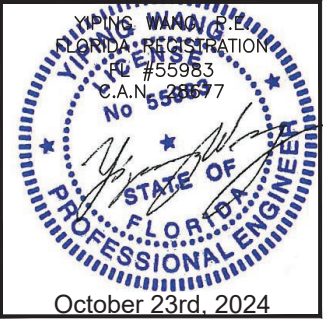
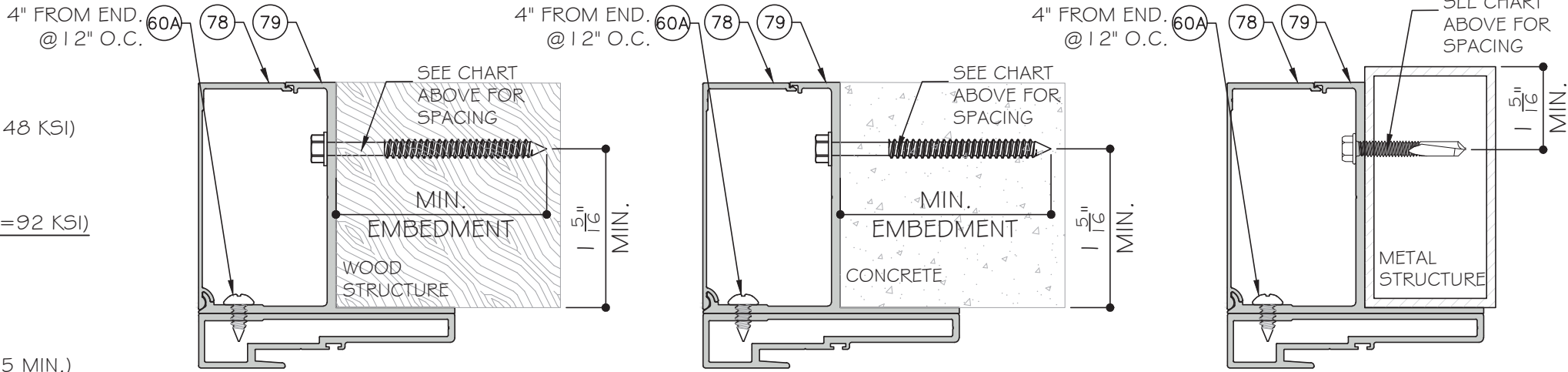


ANCHOR TYPE	EMBEDMENT	SUBSTRATE	ANCHOR SPACING	
			W≤72"	72"<W≤84"
A2 (1/4" ULTRACON)	1 3/4"	CONCRETE	12"	11"
D2(#14 TEKS)	3/16"	ALUM. 6063-T6	16"	14"
D2(#14 SMS)	1/8"	STL	14"	12"
D2A(#14 SMS)	1 1/2"	WOOD SG=0.55	13"	11"

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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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

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

Rev	No.	Date	Drawn By	Description
1	0	10.08.2024	James	

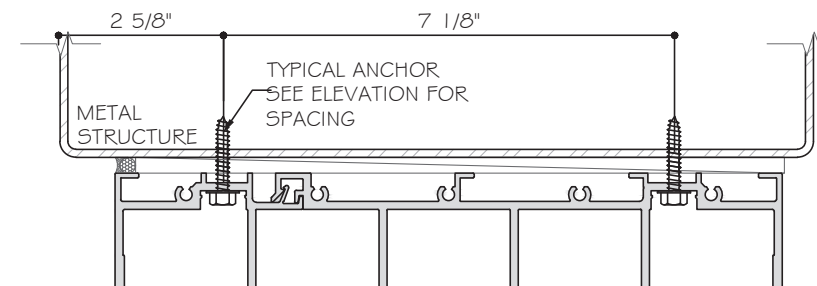
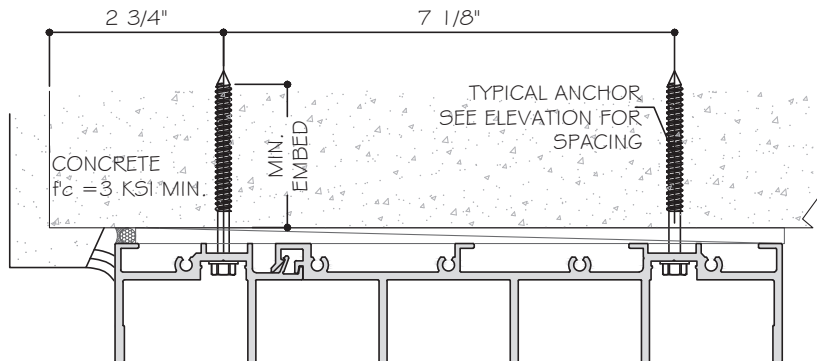
Drawn Date
10.08.2024

Scale

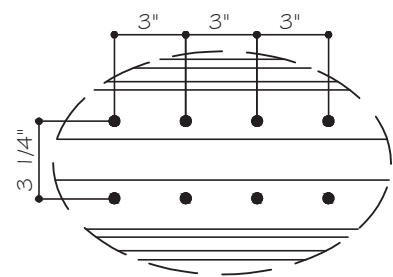
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AD16-29

J4

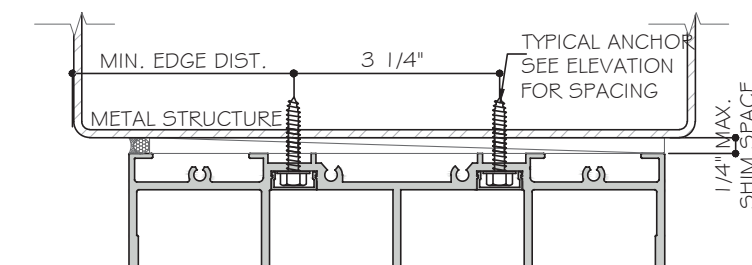
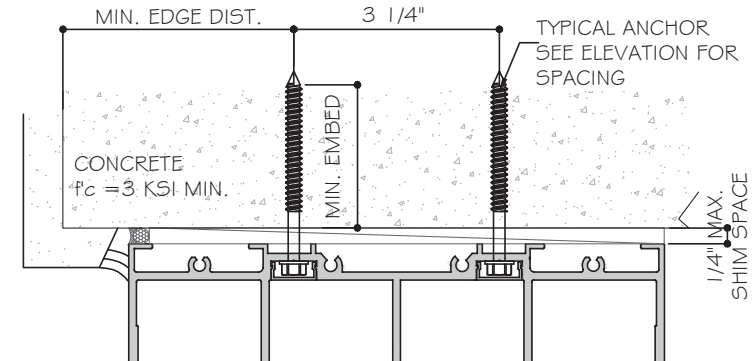
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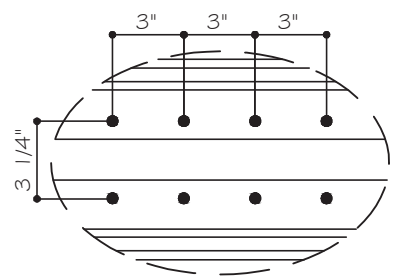
5 TRACK SGD



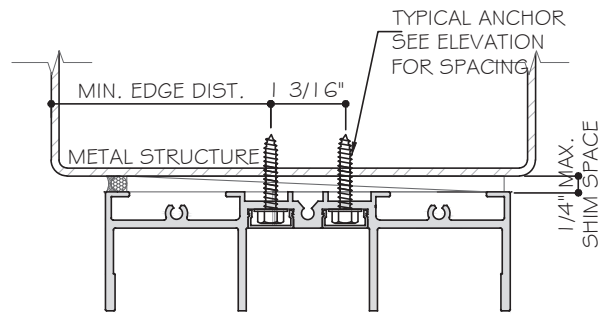
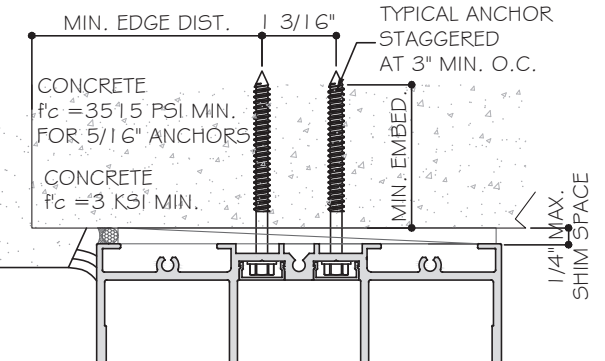
5 TRACK SGD



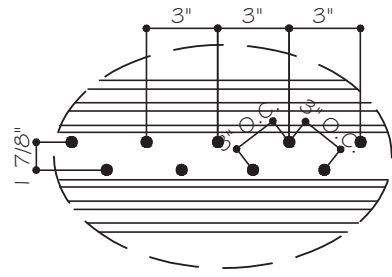
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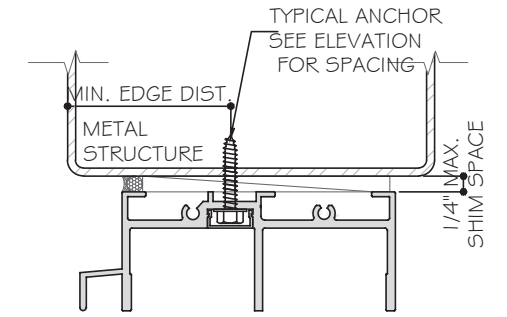
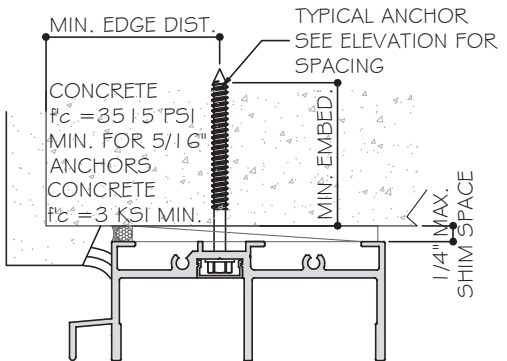
4 TRACK SGD



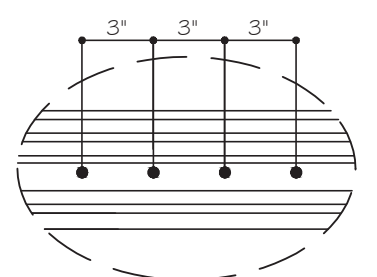
3 TRACK SGD



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.)

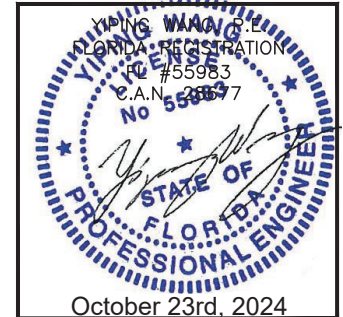
- TYPE "E": 5/16" TEKS/DRIL-FLEX SCREW ($F_u=120$ KSI, $F_y=92$ KSI)
INTO METAL STRUCTURE
(3) THREAD MIN. PENETRATION BEYOND METAL SUBSTRATE
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. ($F_y=36$ KSI, MIN.)

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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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

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

Rev.	Date	Drawn By	Description
1	10.08.2024	James	

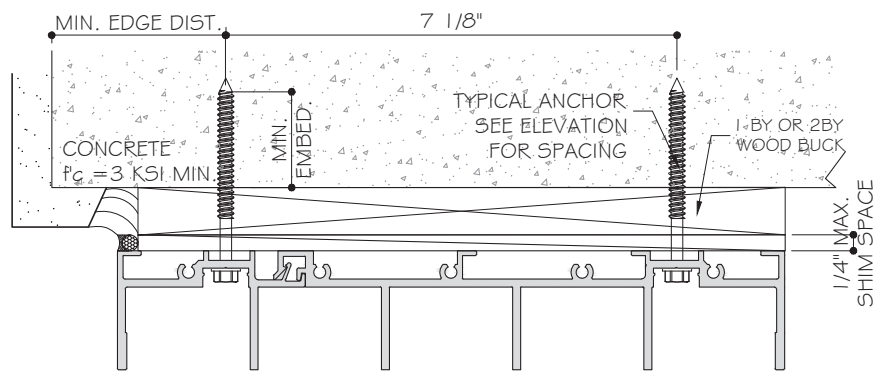
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10.08.2024

Scale

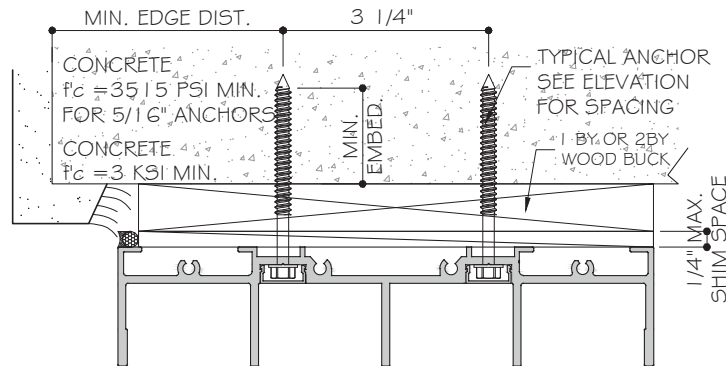
DRAWING NO.
AD16-29

A6

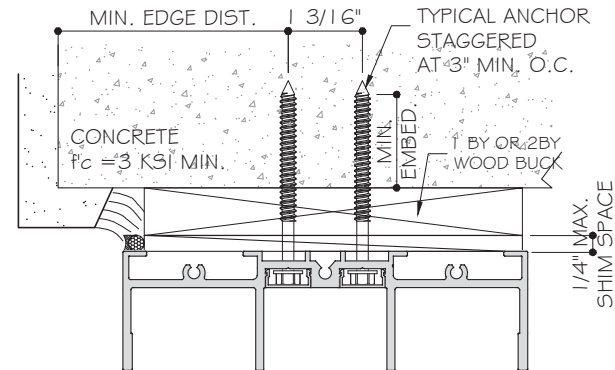
Sheet No.
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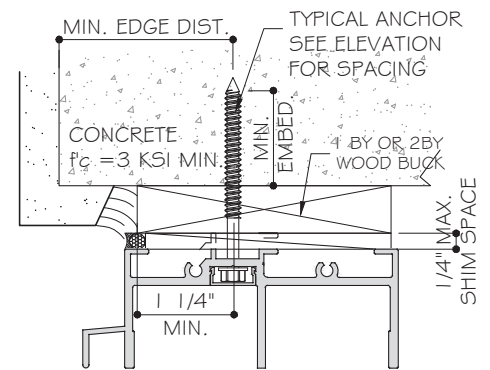
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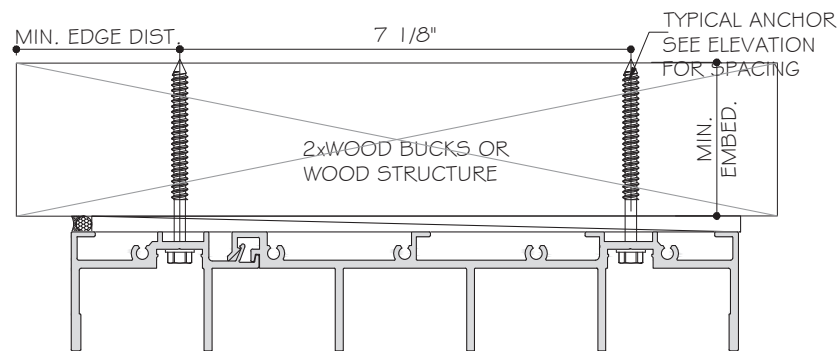
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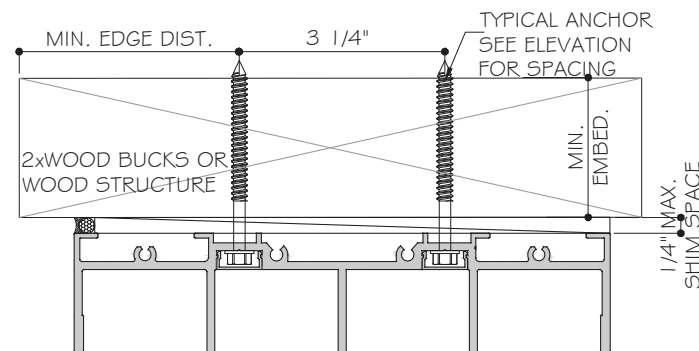
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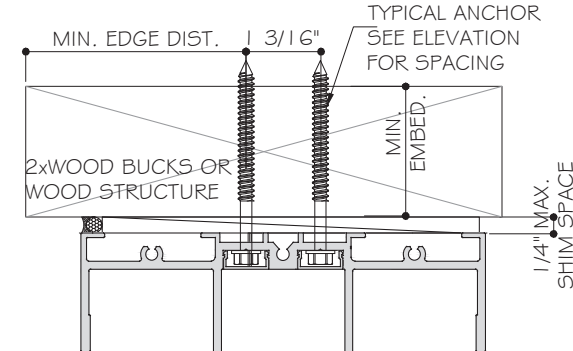
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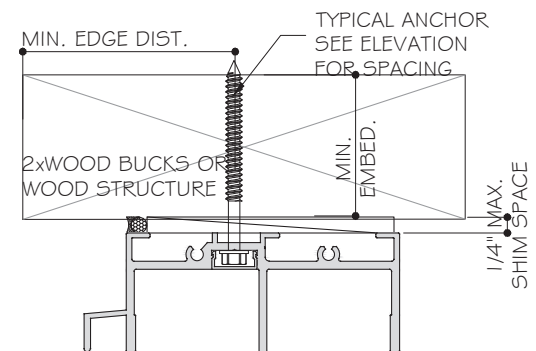
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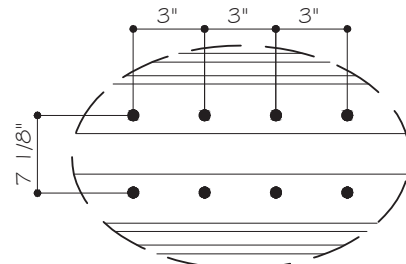
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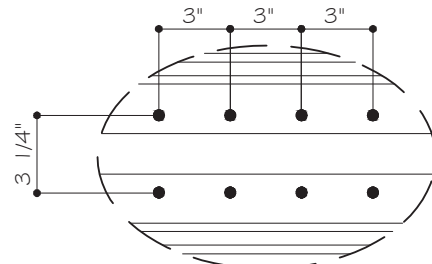
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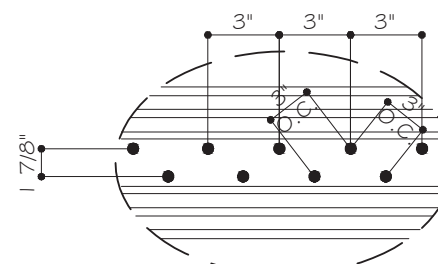
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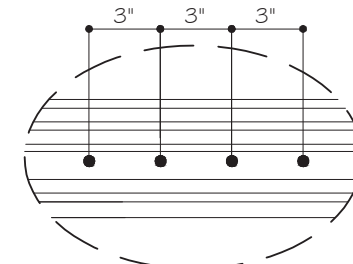
5 TRACK SGD



4 TRACK SGD



3 TRACK SGD



2 TRACK SGD

HEAD ANCHOR TYPES:

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.

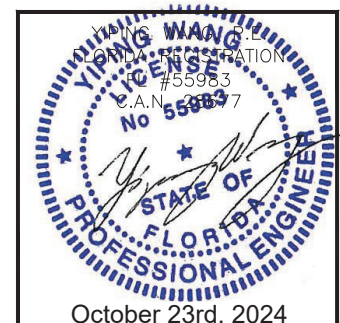
TYPE "BB": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164$ KSI, $F_y = 148$ KSI)
1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
SG=0.55 MIN.
OR THRU 1 BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED
INTO $f'_c = 3000$ PSI CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

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:

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mcy@mcyengineering.com

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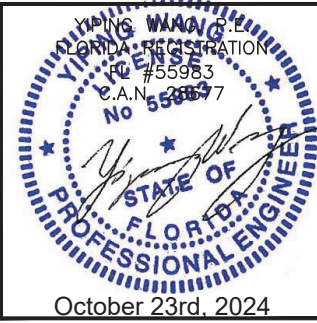
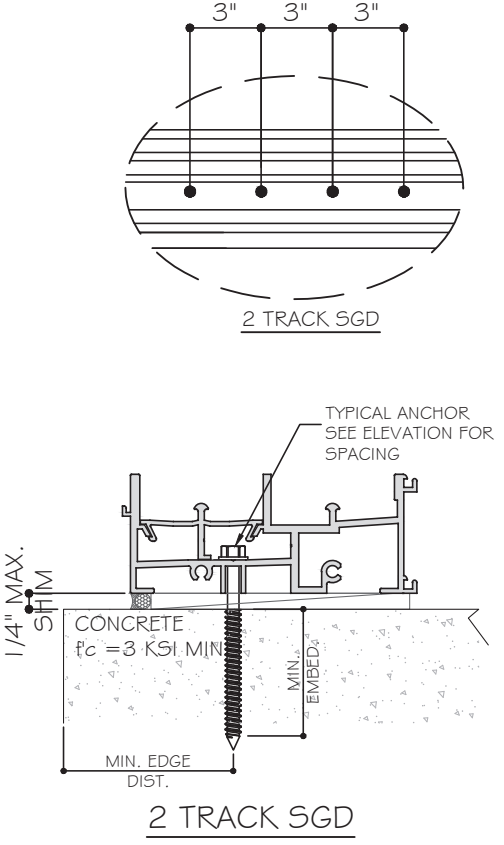
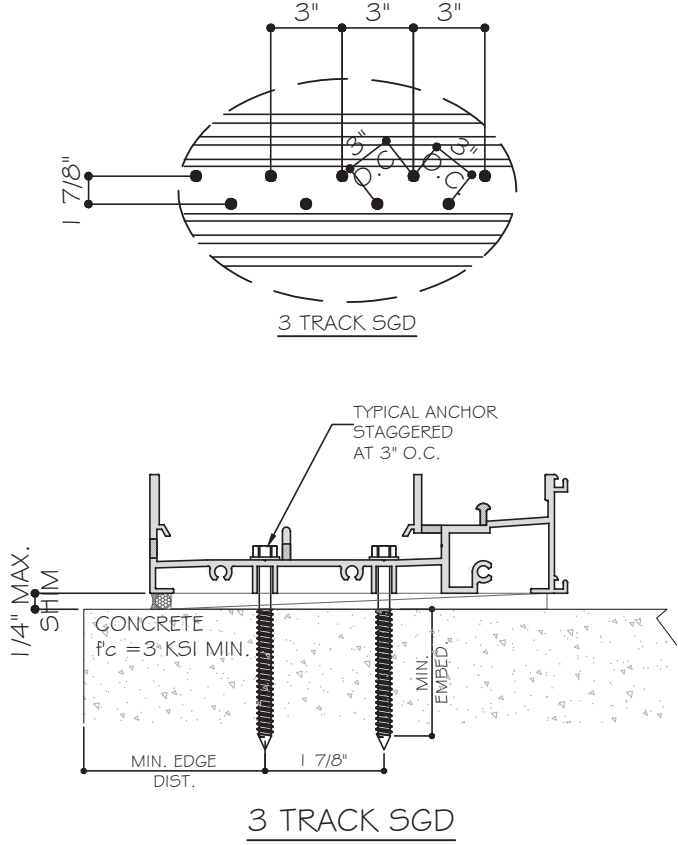
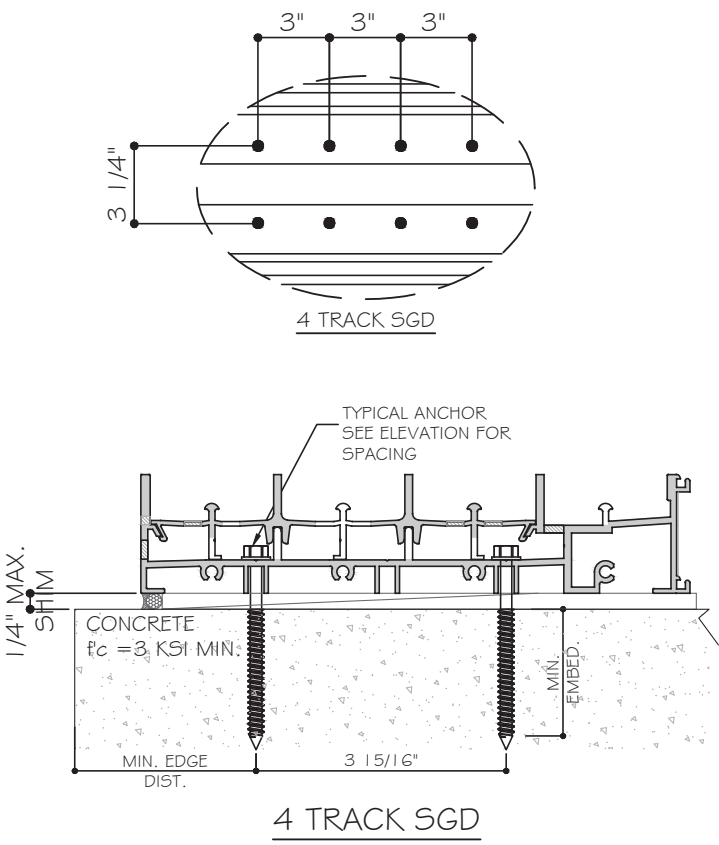
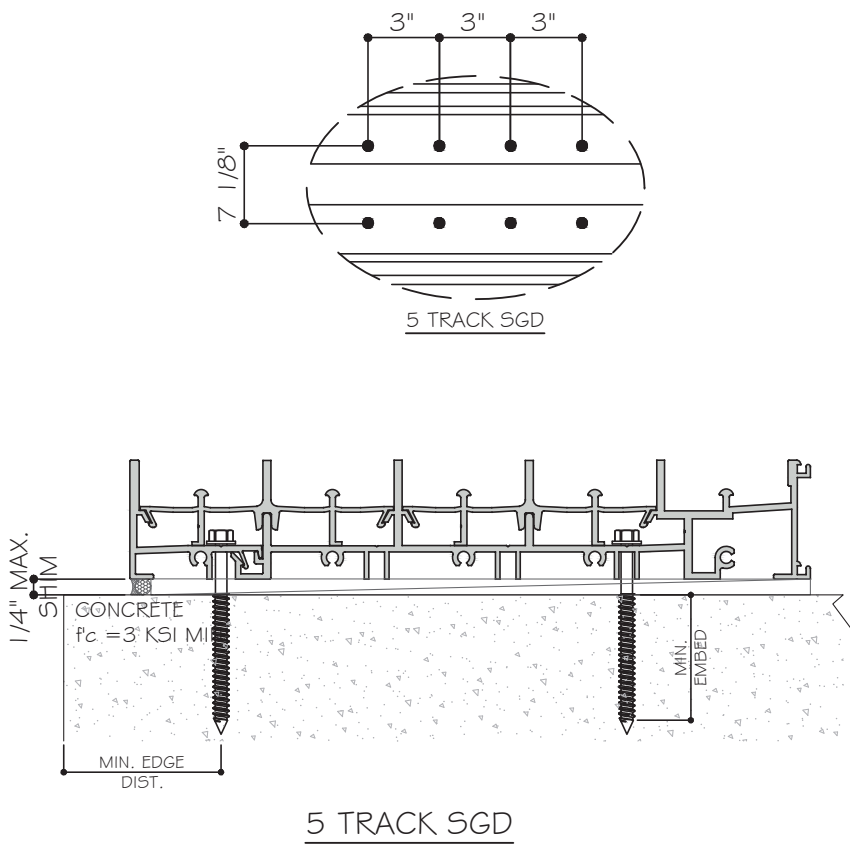
A7

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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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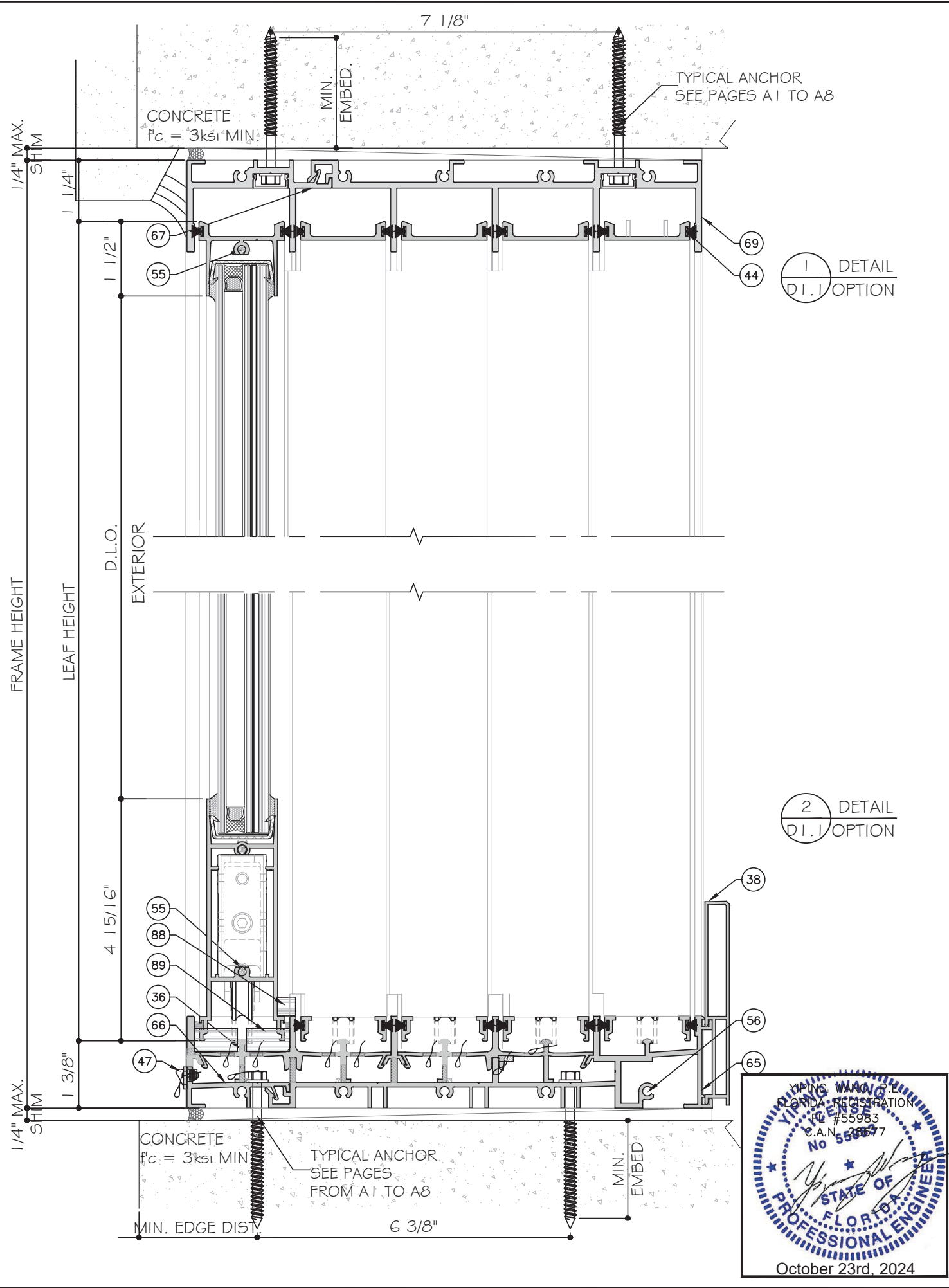
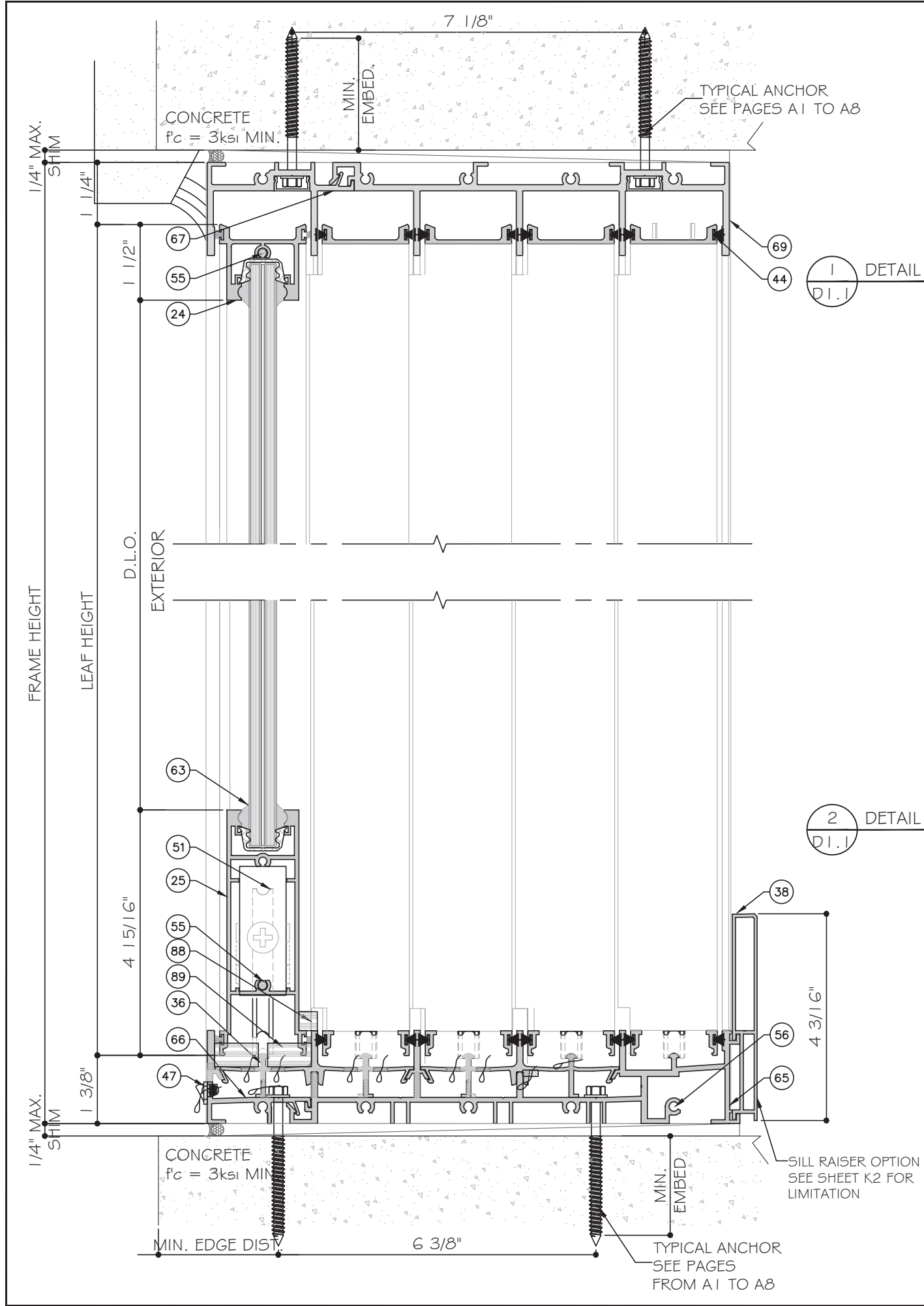
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Scale

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A8

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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

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YOUNG MANOY

FLORIDA REGISTRATION

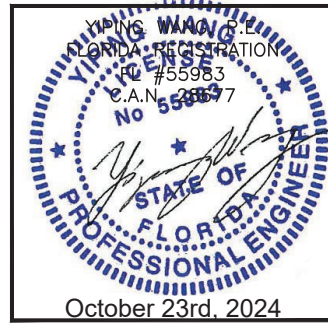
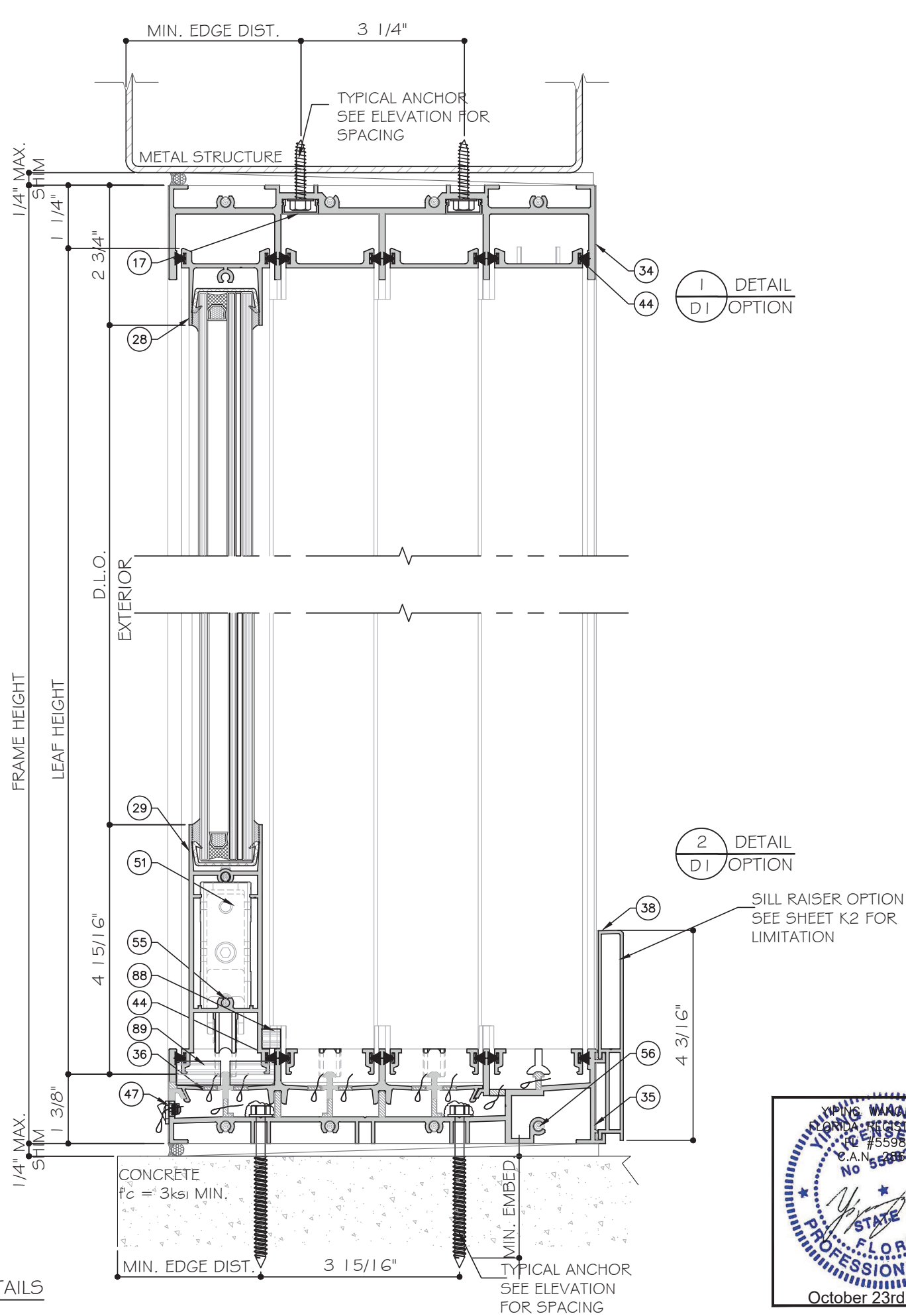
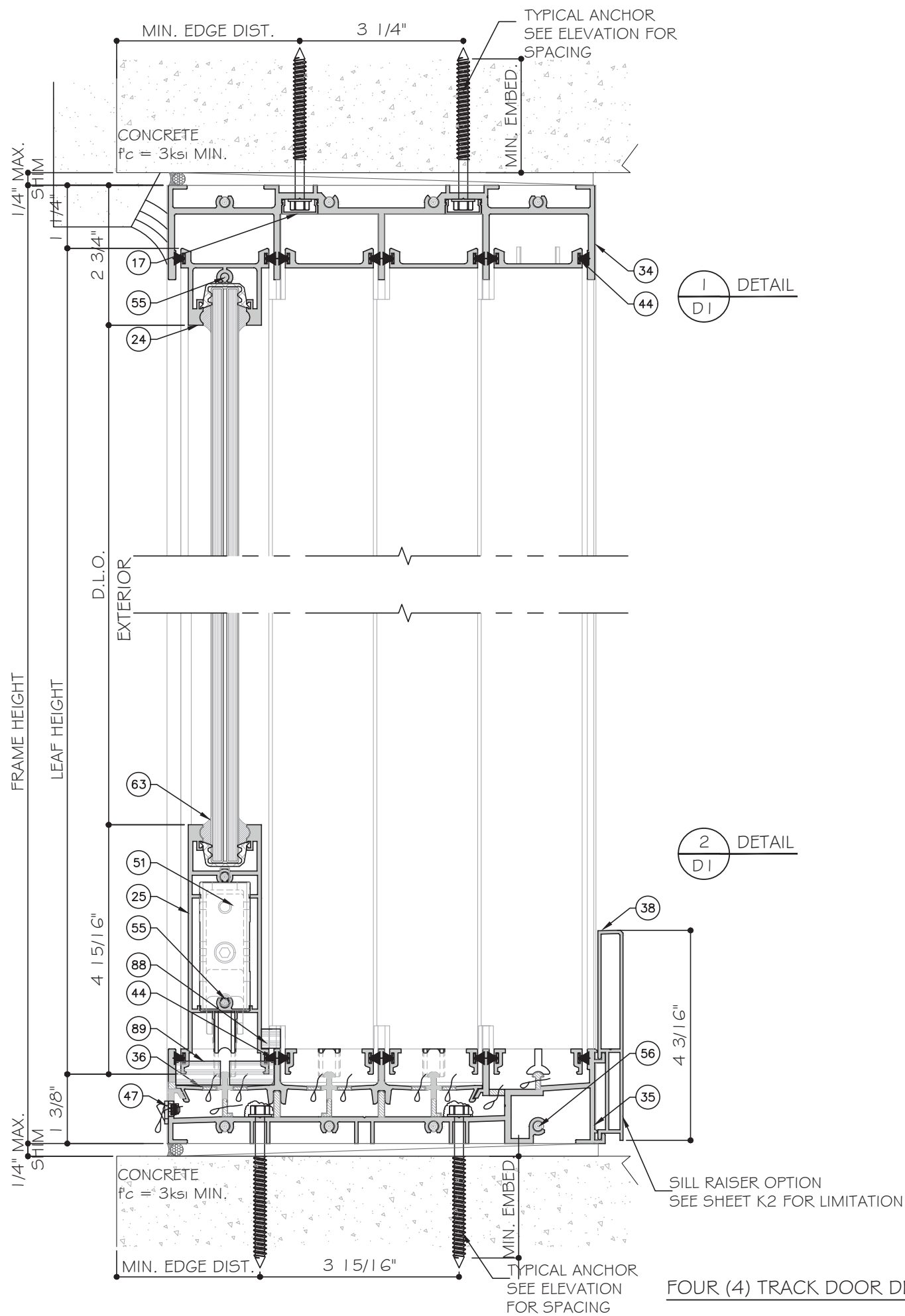
NO. 555983

C.A.N. 555983

STATE OF FLORIDA

PROFESSIONAL ENGINEER

October 23rd, 2024



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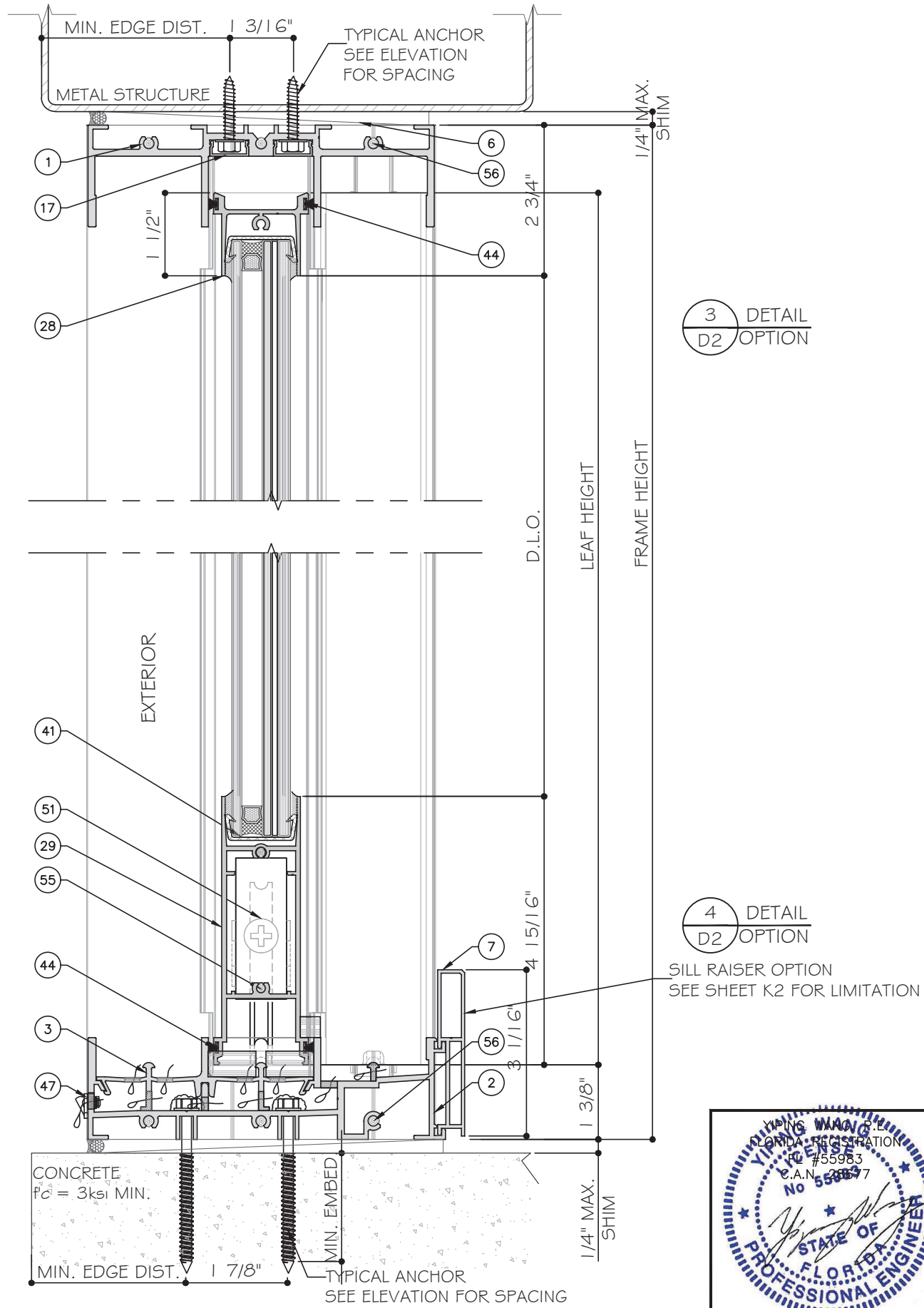
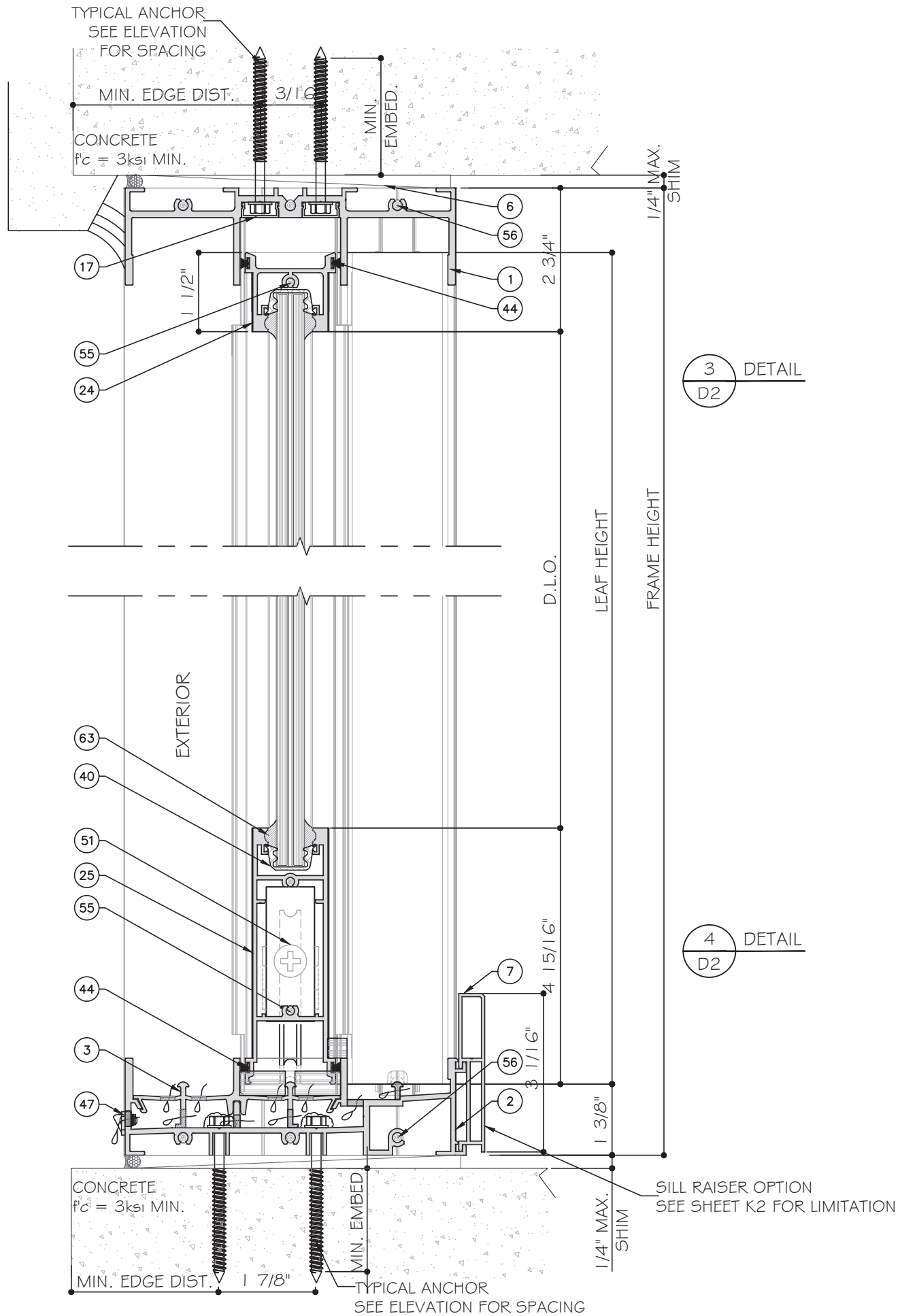
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10.08.2024

Scale

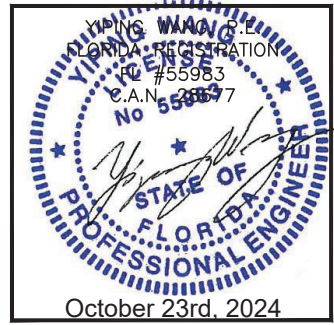
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AD16-29

D1

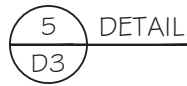
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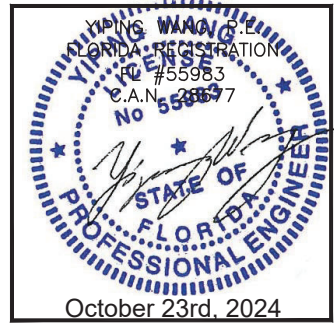
THREE (3) TRACK DOOR DETAILS

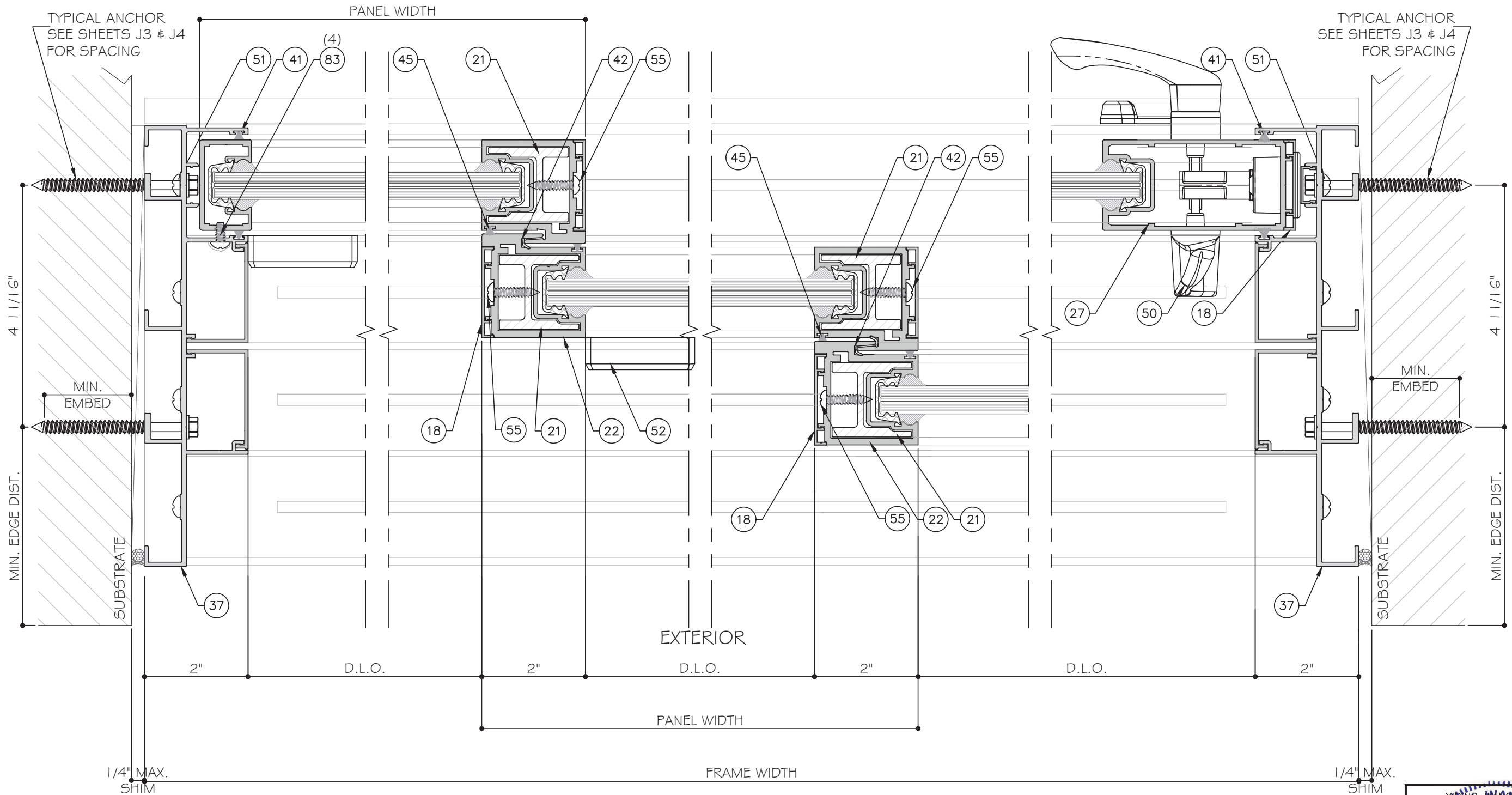


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TWO (2) TRACK DOOR DETAILS





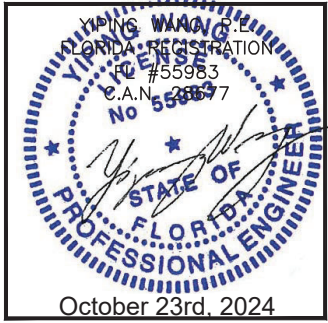
7
D4
DETAIL

8
D4
DETAIL

9
D4
DETAIL

7A
D4
DETAIL

FOUR (4) TRACK DOOR DETAILS



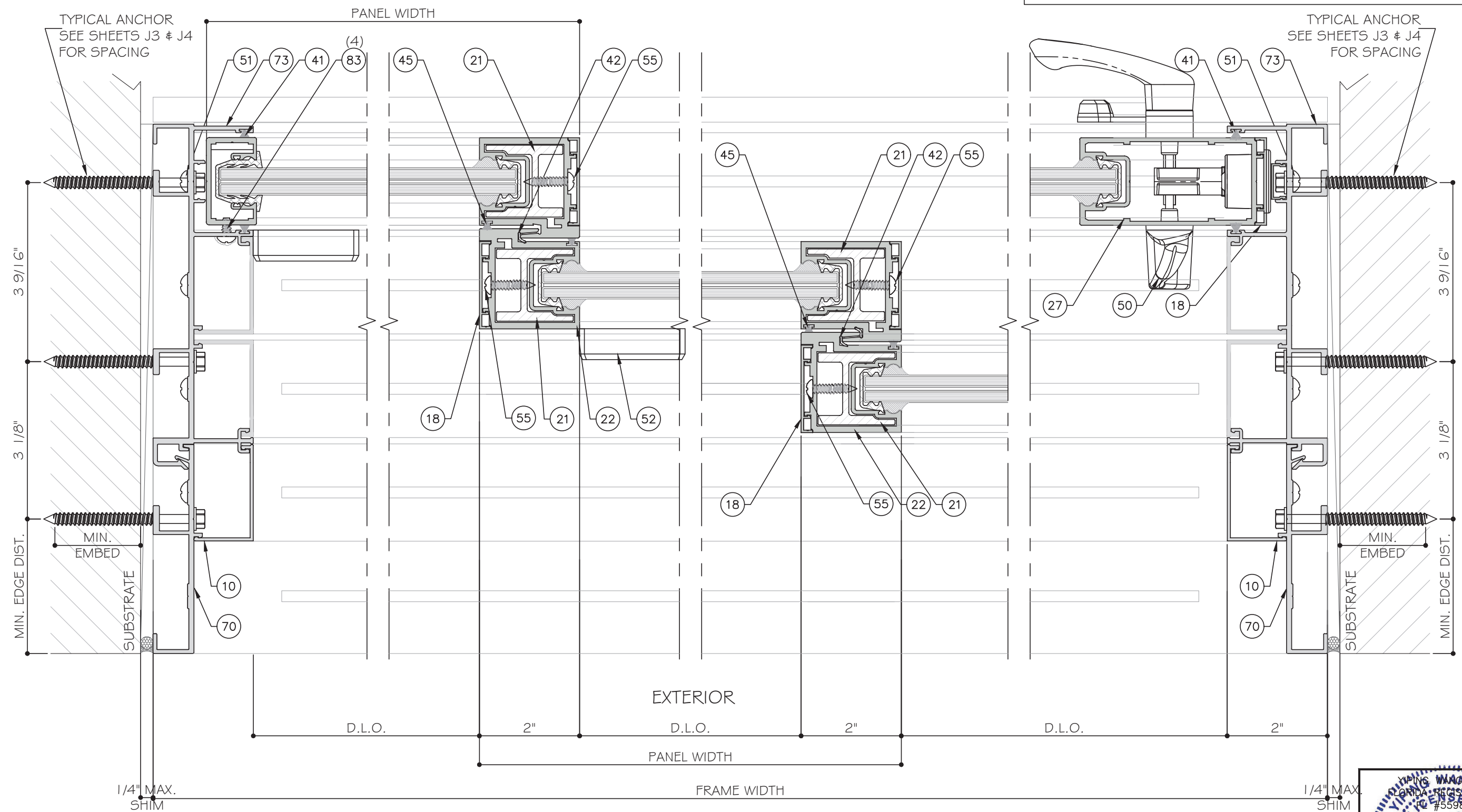
STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

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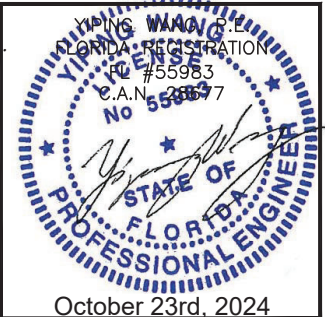
7
D4.1
DETAIL

8
D4.1
DETAIL

9
D4.1
DETAIL

7A
D4.1
DETAIL

FIVE (5) TRACK DOOR DETAILS



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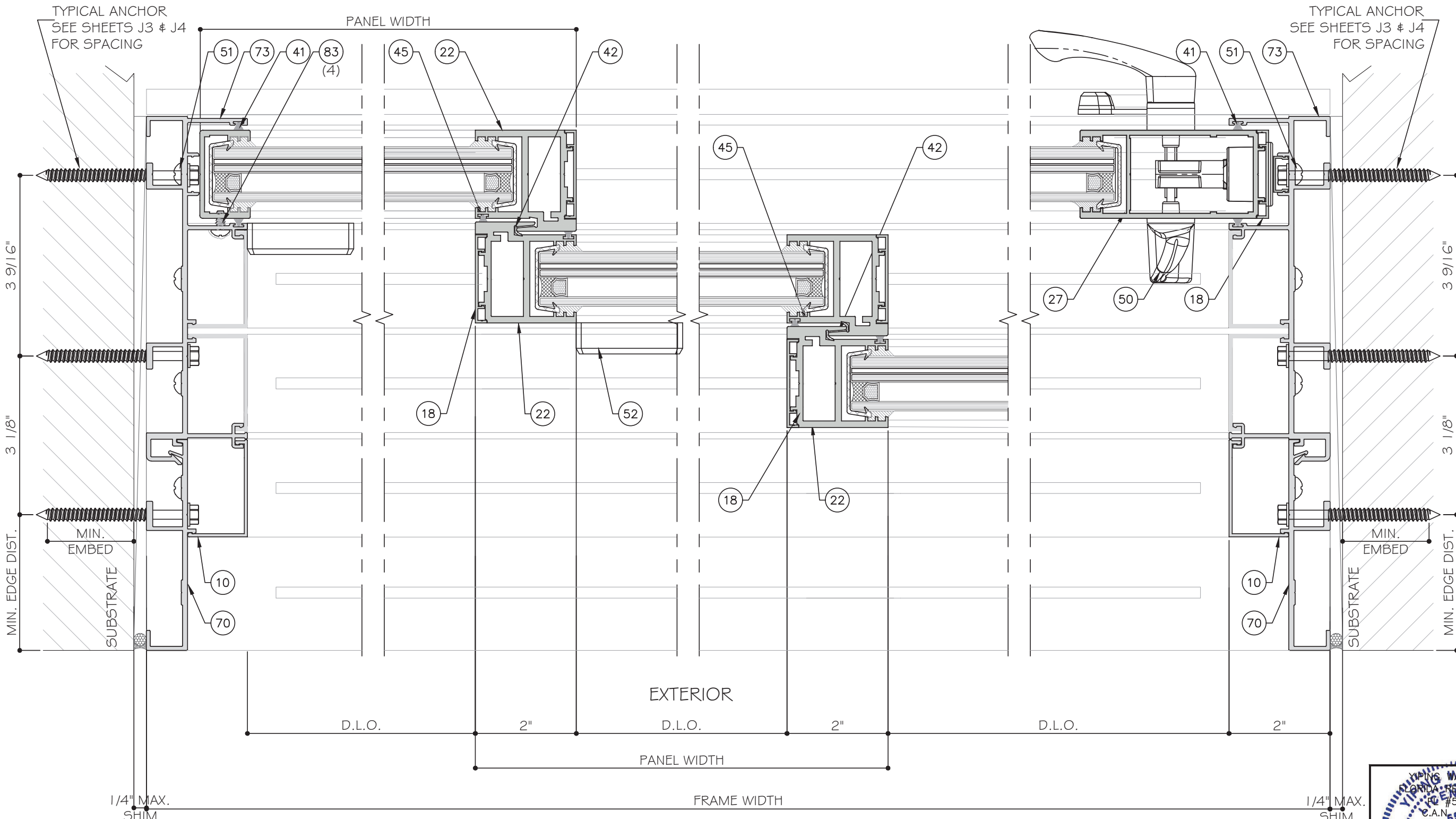
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Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	REVISION

Drawn Date
10.08.2024

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D4.1



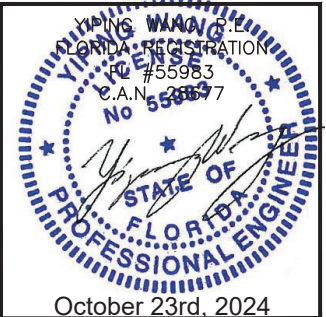
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SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

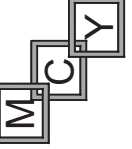
13 DETAIL
D4.2

14 DETAIL
D4.2

15 DETAIL
D4.2

13A DETAIL
D4.2

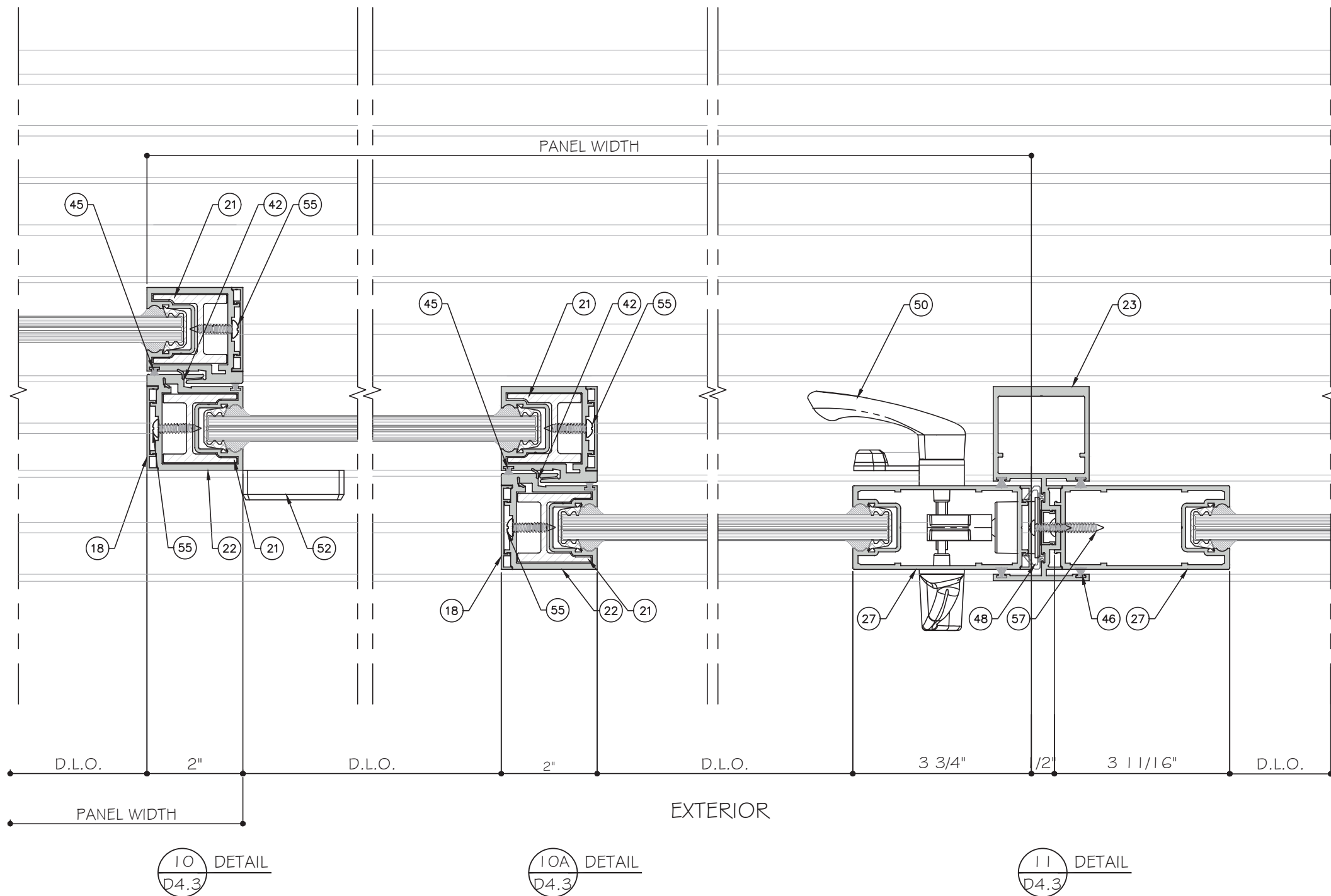


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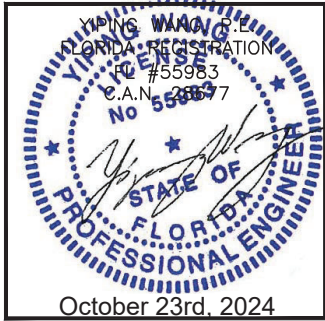
Rev.	No.	Date	Drawn By	Description
1	0	10.08.2024	James	

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DRAWING NO. **AD16-29**
D4.2
Sheet No. **35 OF 59**

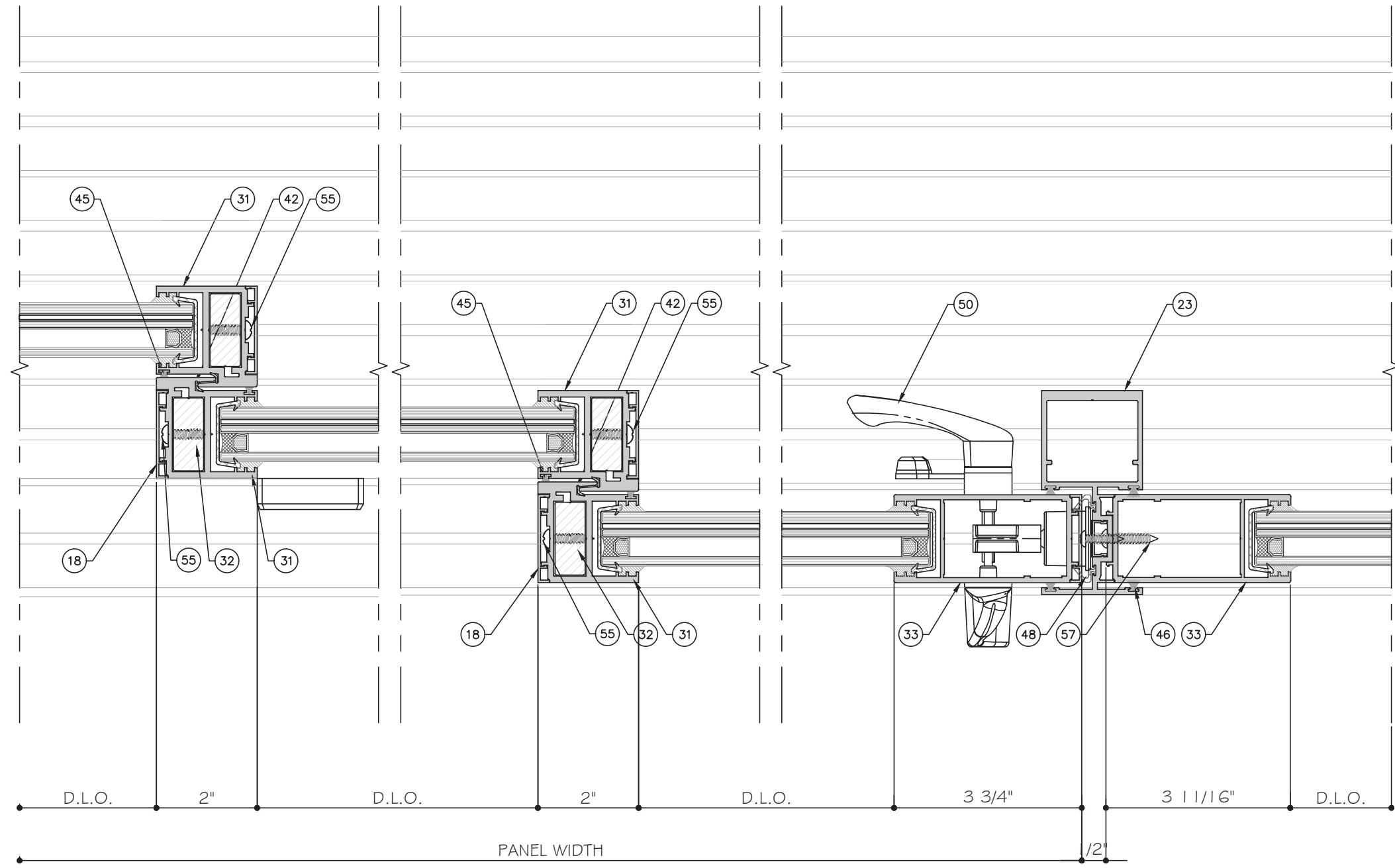


STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

FIVE (5) TRACK DOOR DETAILS



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16
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17
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DETAIL

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.

EXTERIOR

FIVE (5) TRACK DOOR DETAILS



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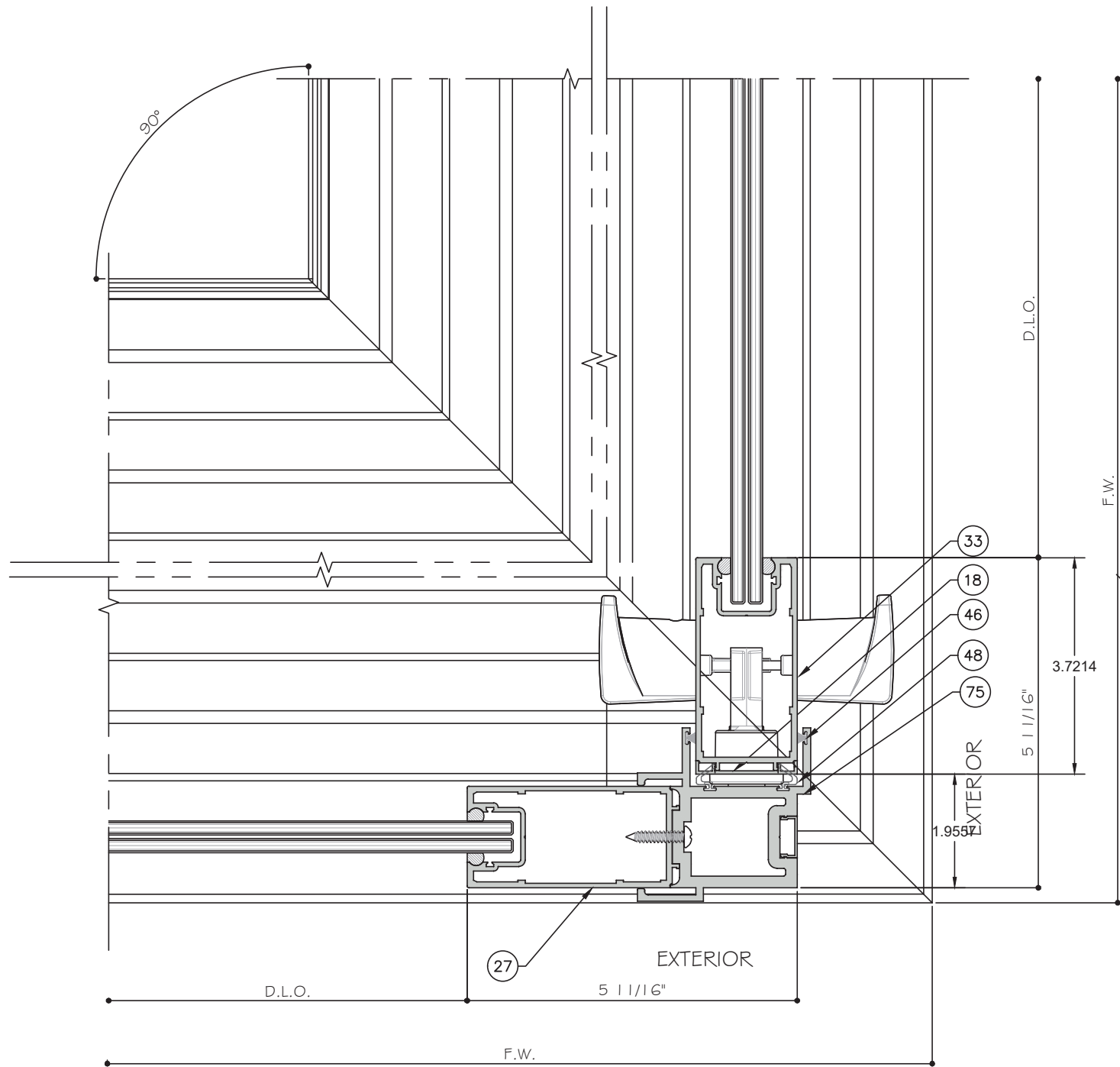
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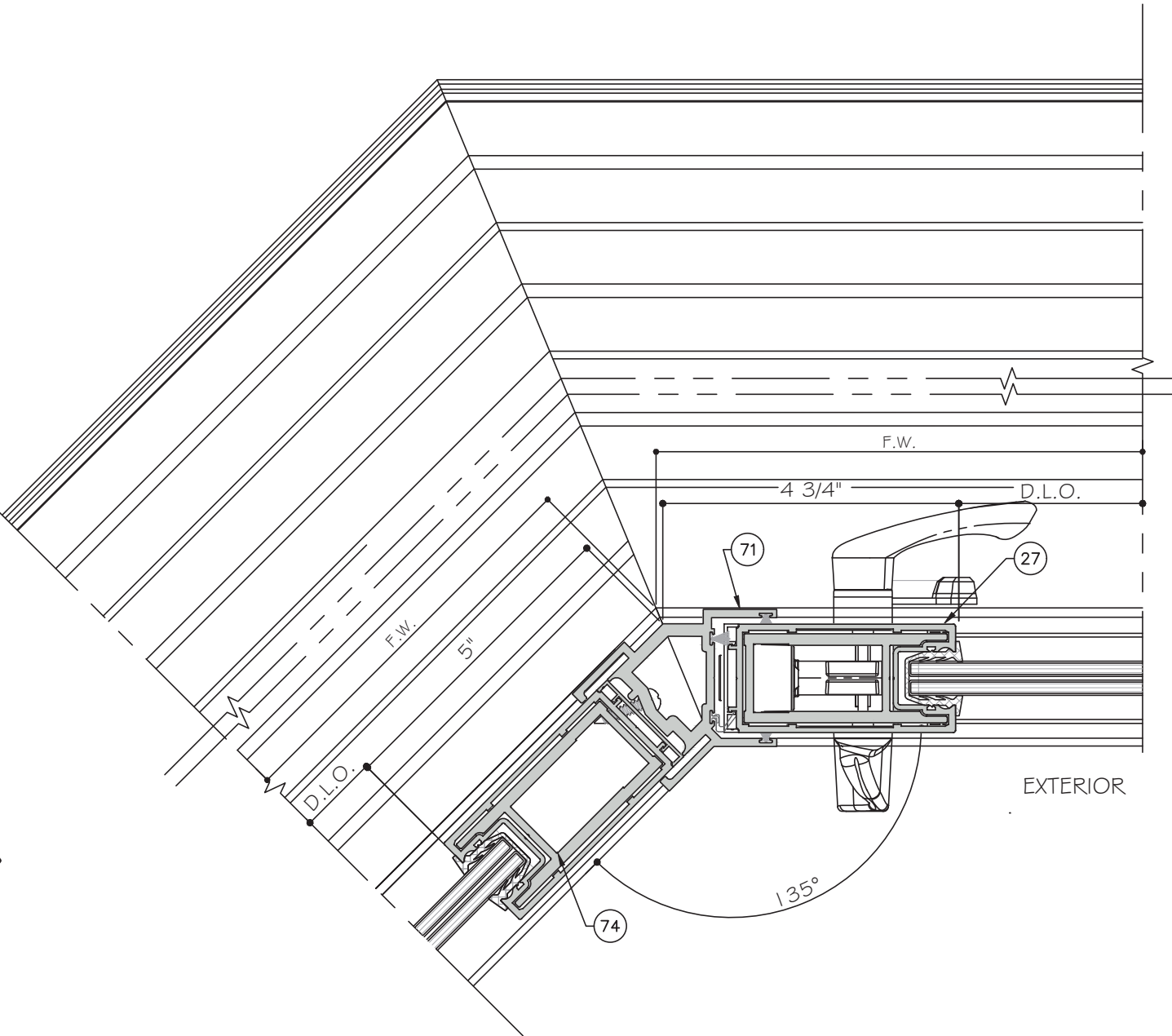
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43 DETAIL
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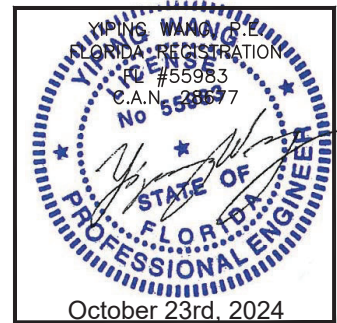


44 DETAIL
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CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

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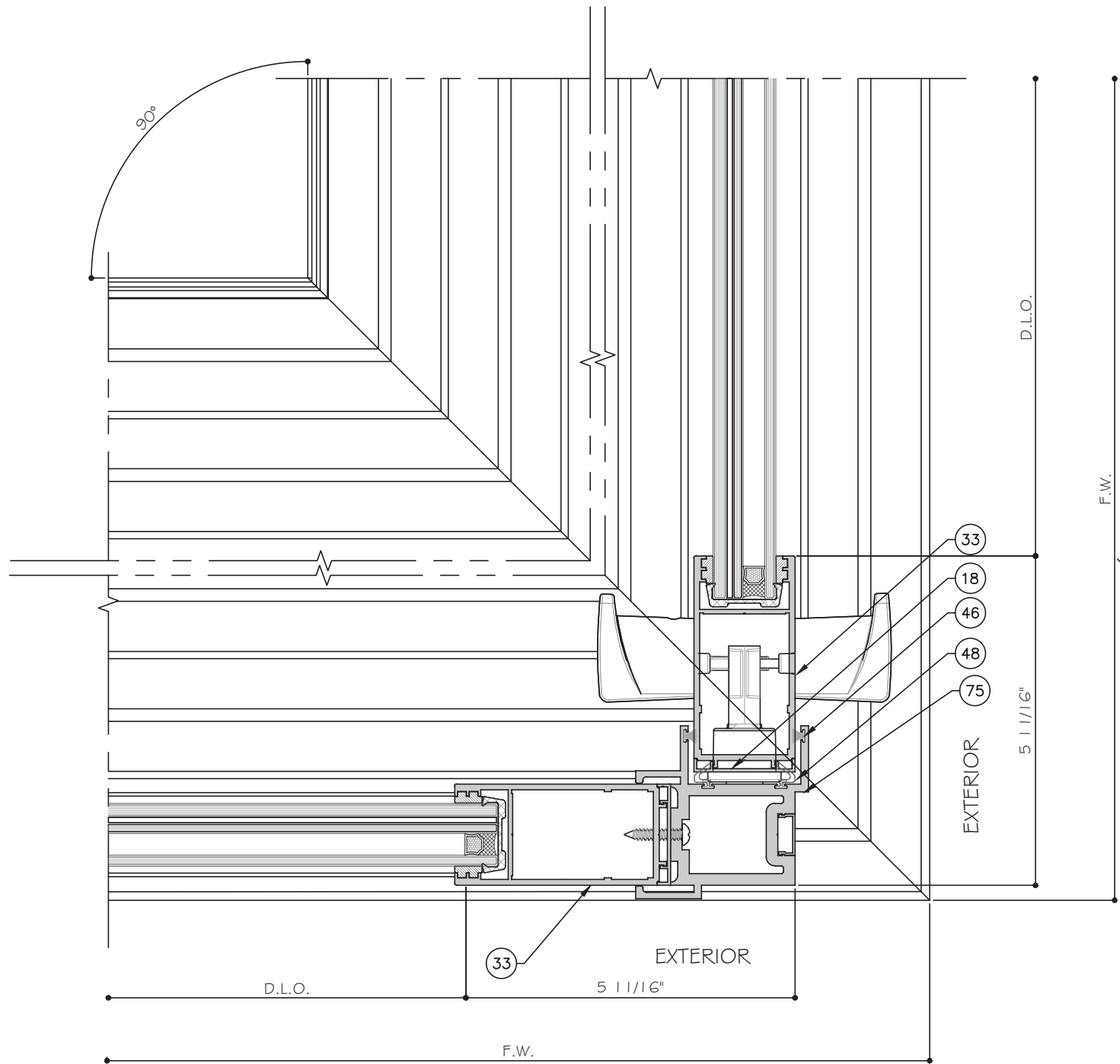
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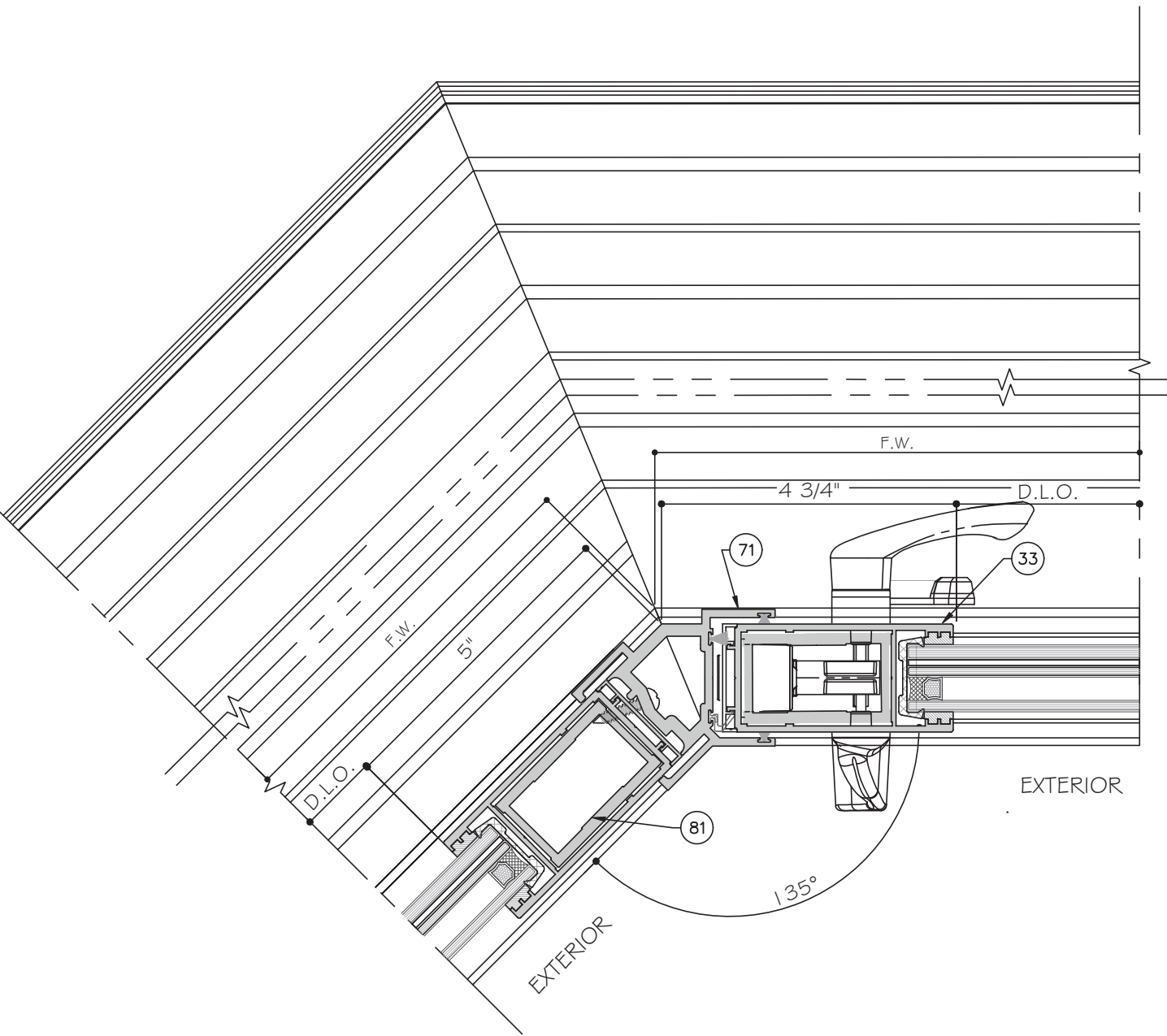
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45 DETAIL
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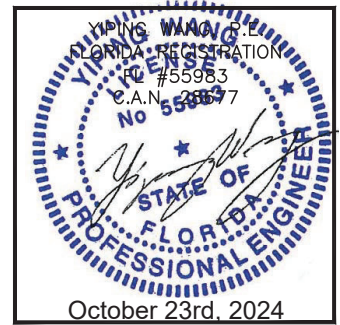


46 DETAIL
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CORNER DETAILS

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

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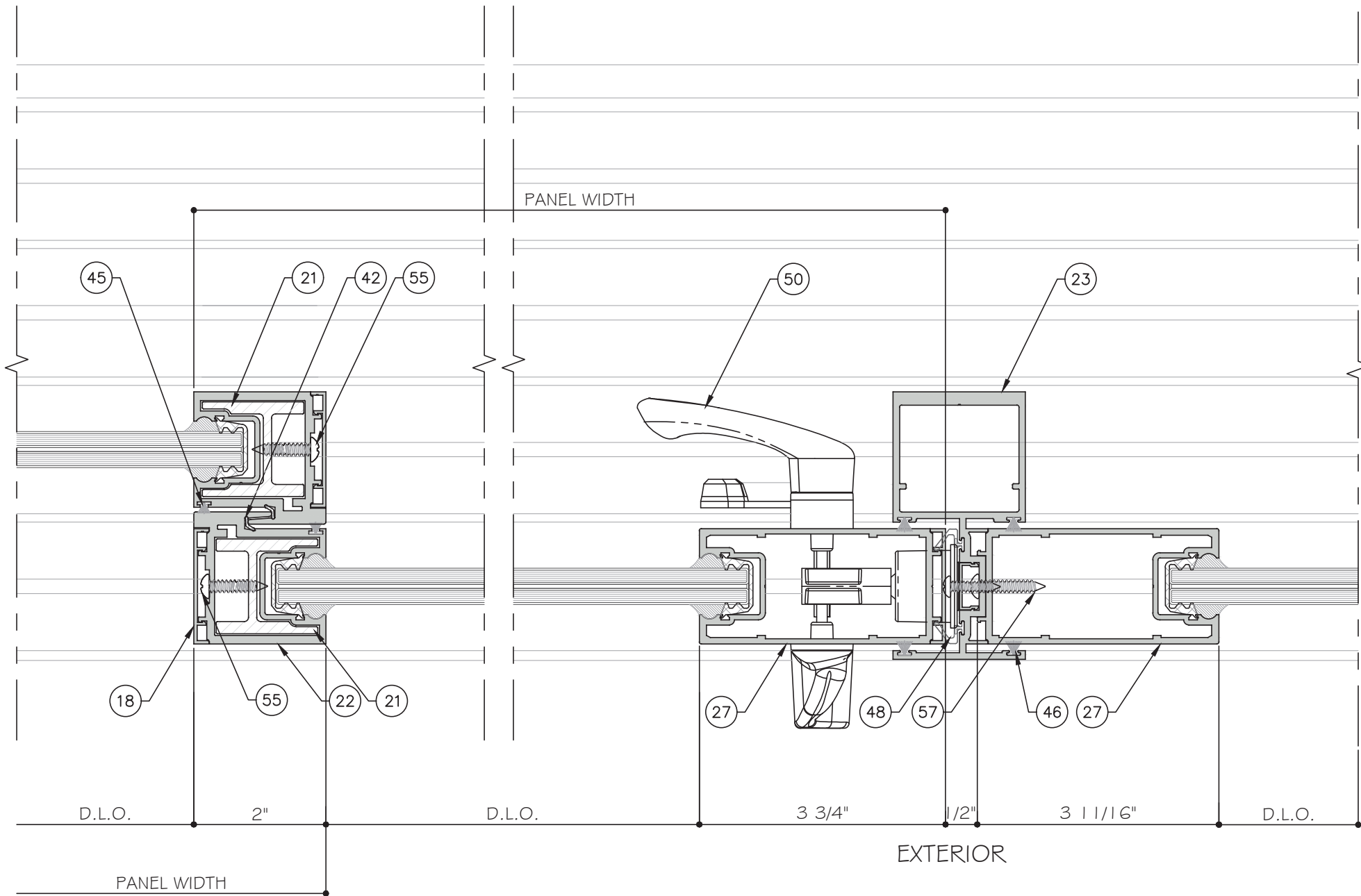
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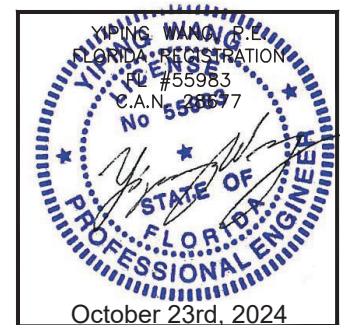


10 DETAIL
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

FOUR (4) TRACK DOOR DETAILS



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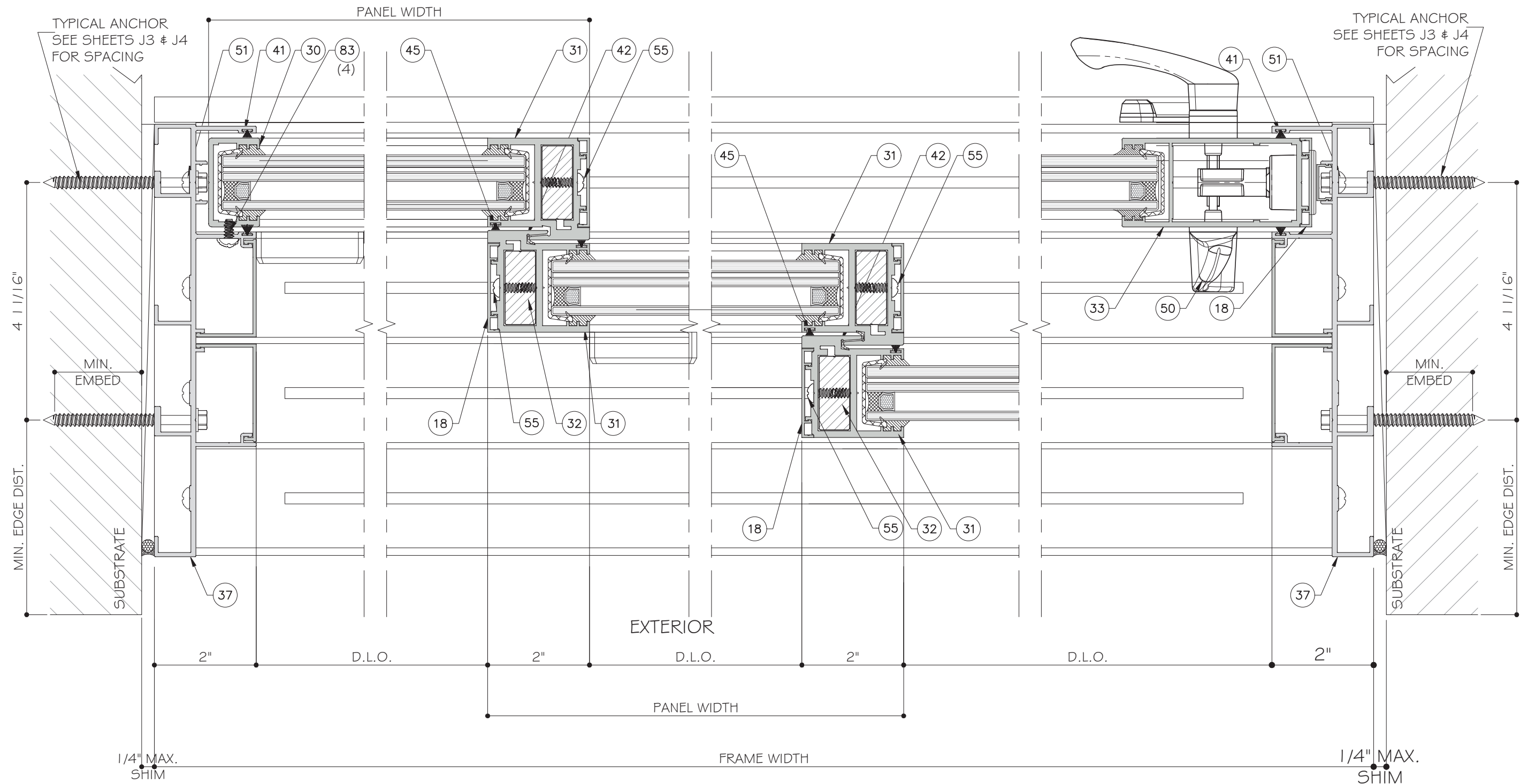
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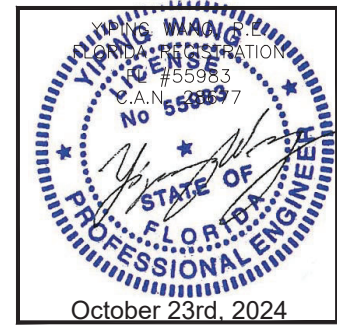
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Sheet No. 40 OF 59



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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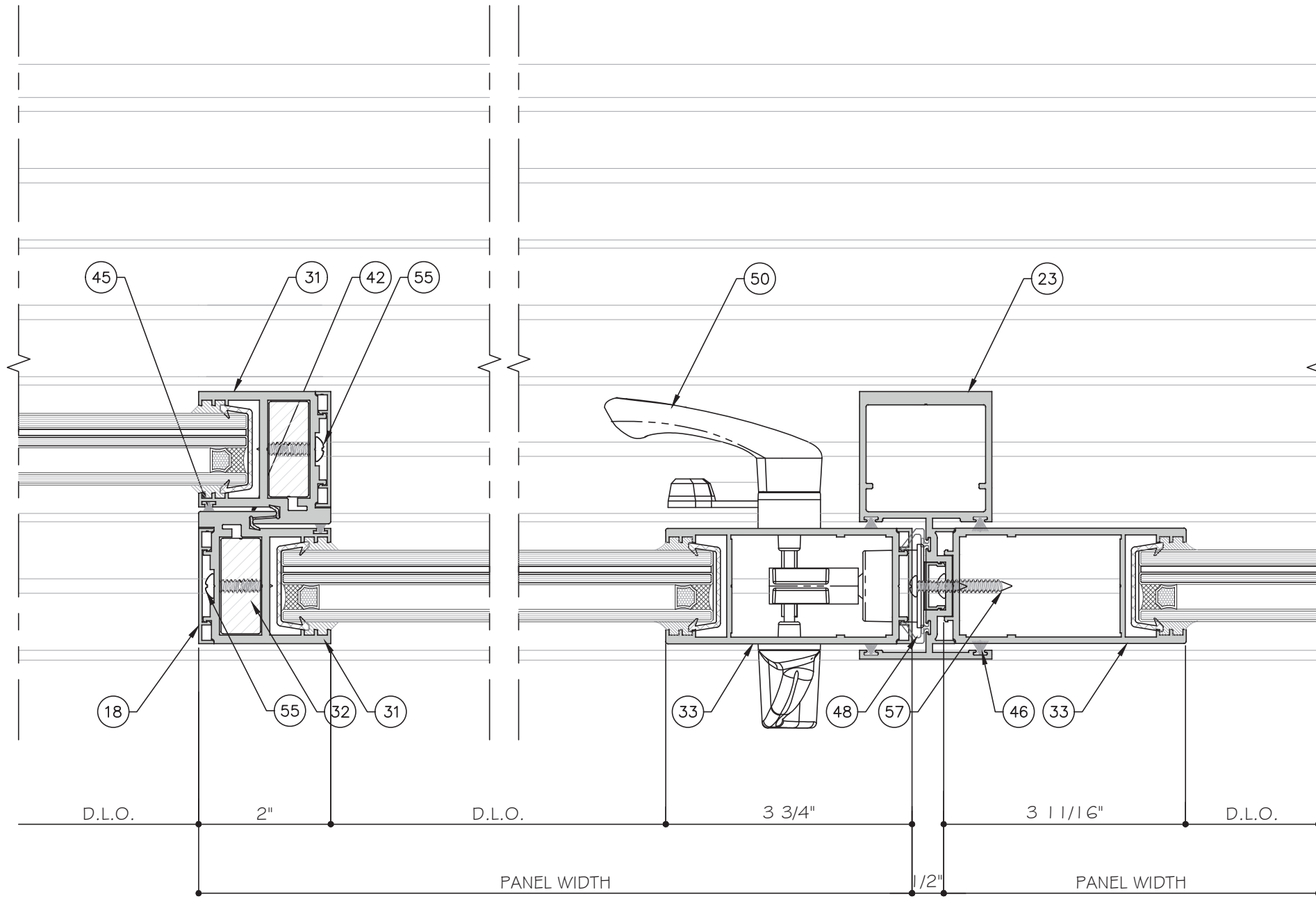
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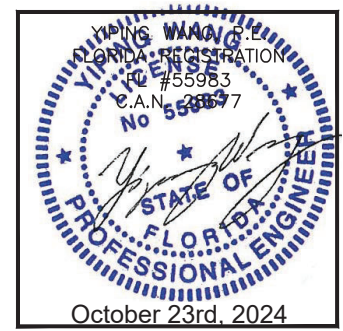


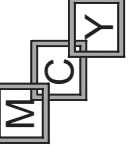
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FOUR (4) TRACK DOOR DETAILS

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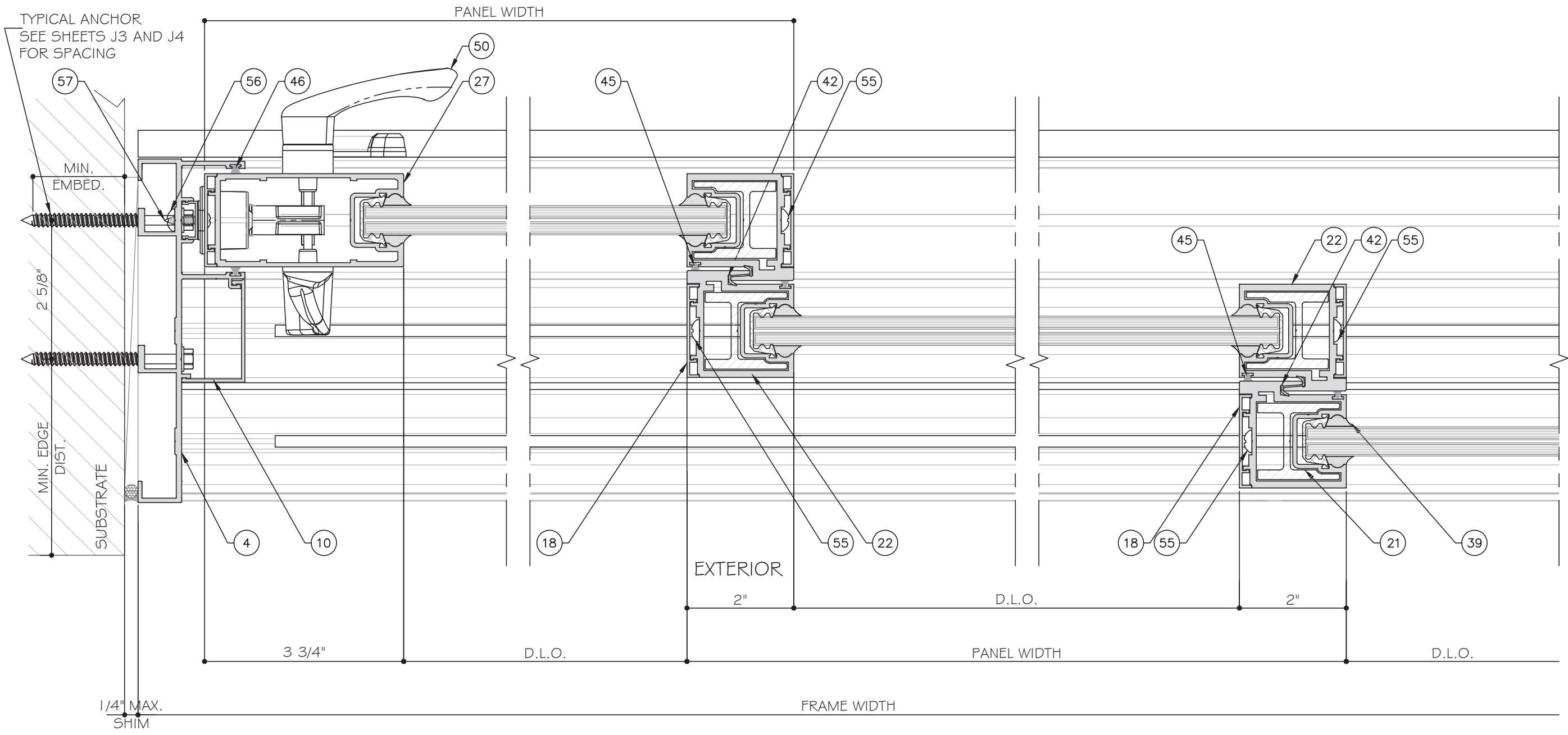
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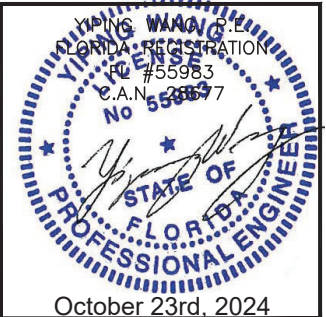
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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THREE (3) TRACK DOOR DETAILS



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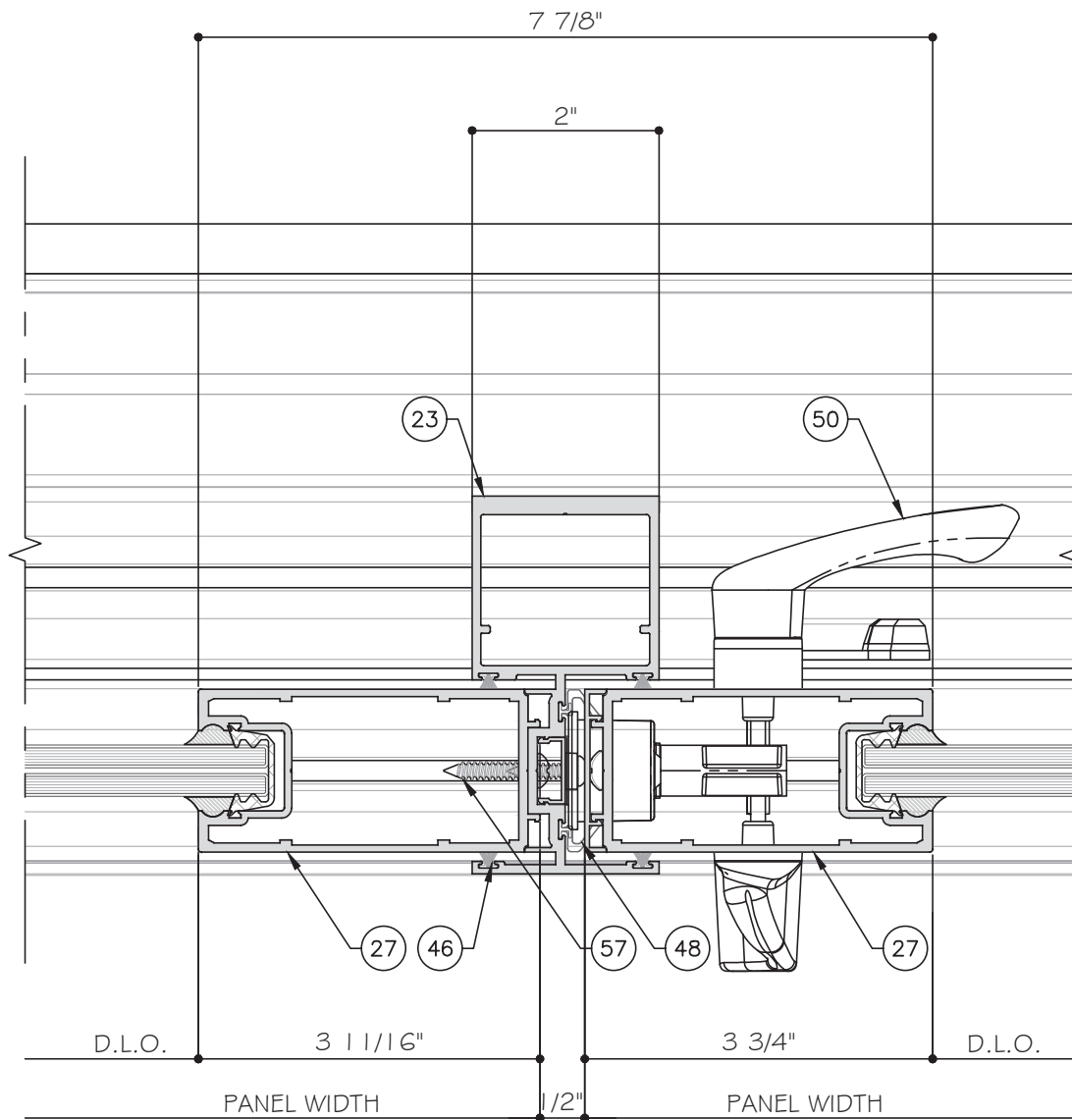
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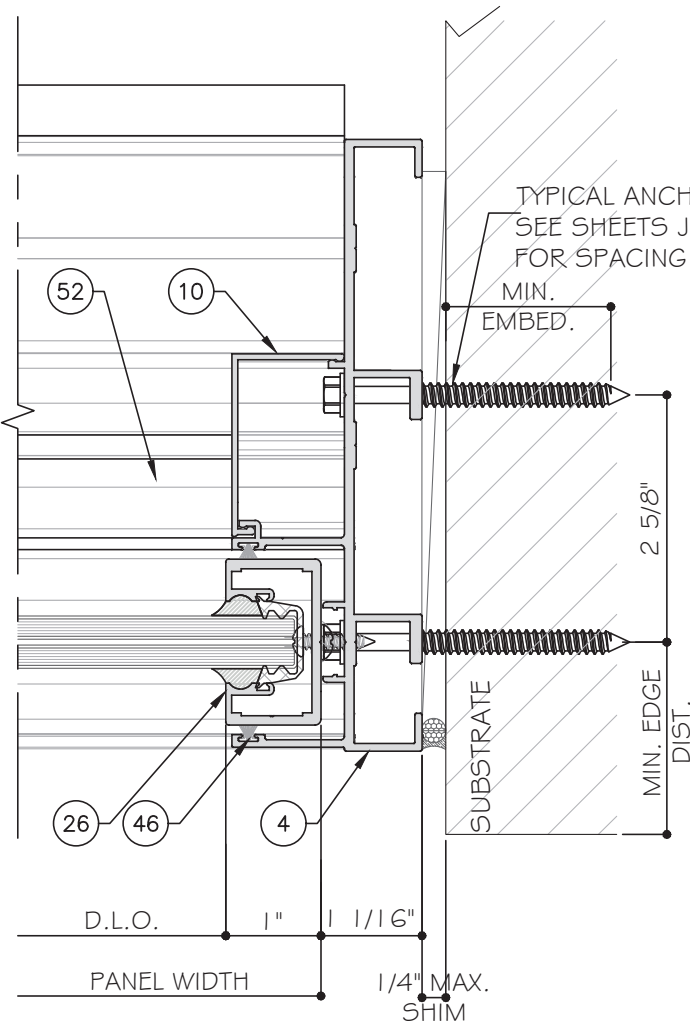
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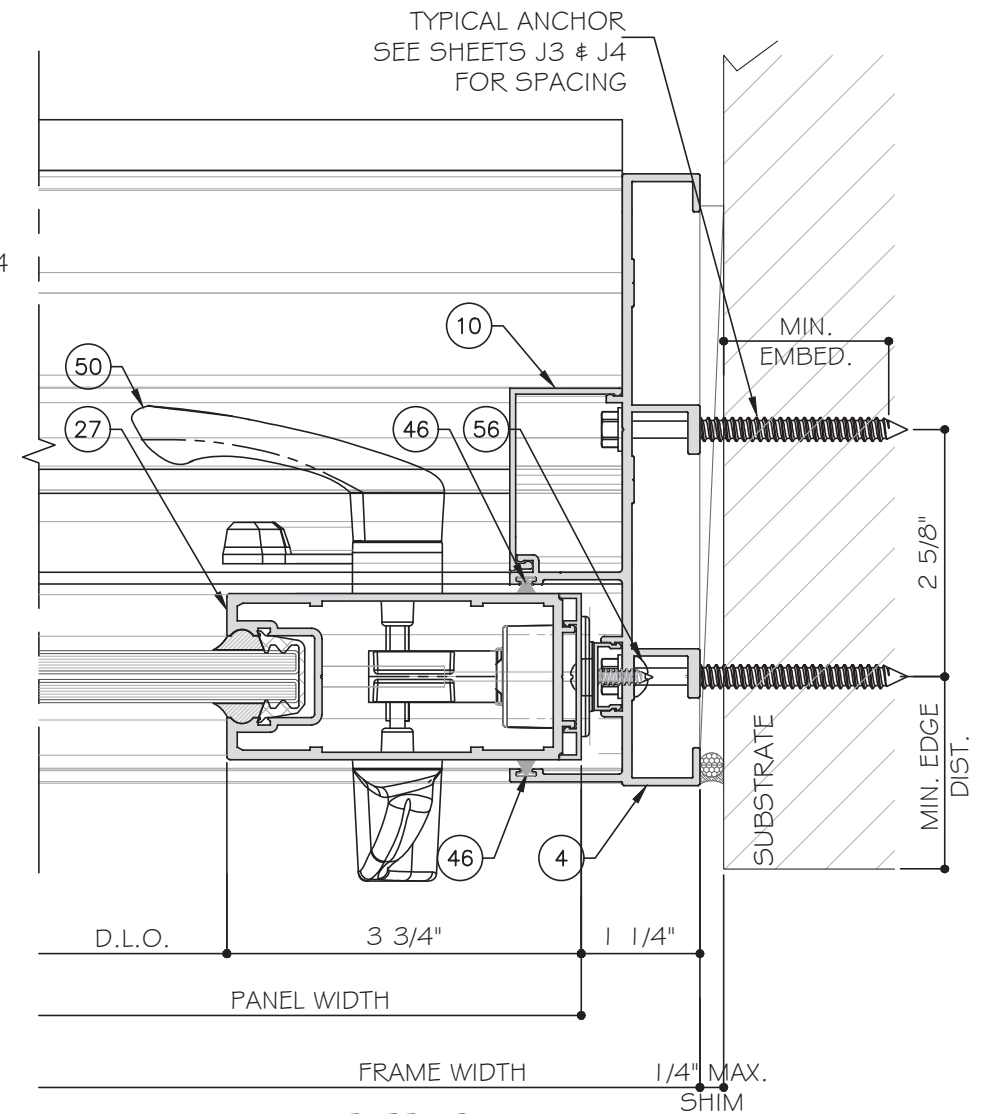


EXTERIOR

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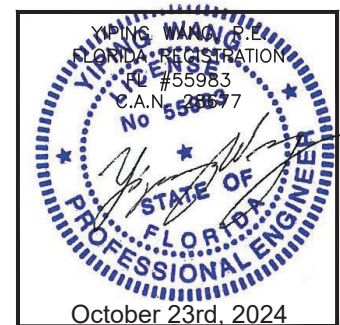
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LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR OPTION 2.

THREE (3) TRACK DOOR DETAILS



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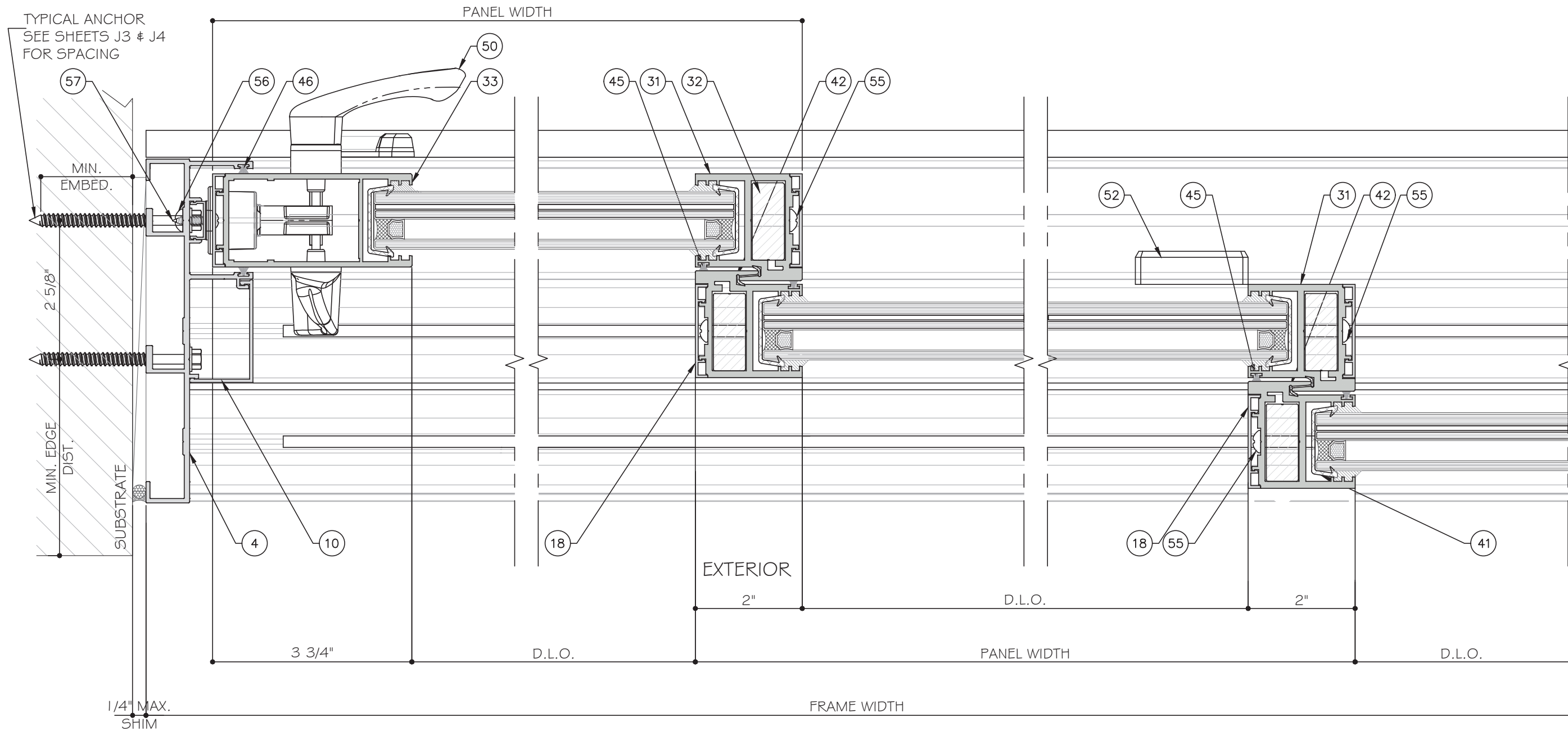
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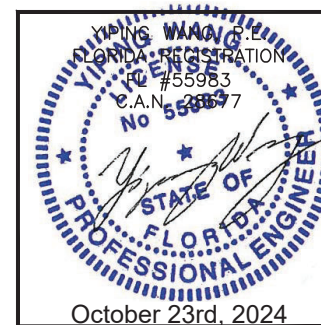
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

THREE (3) TRACK DOOR DETAILS



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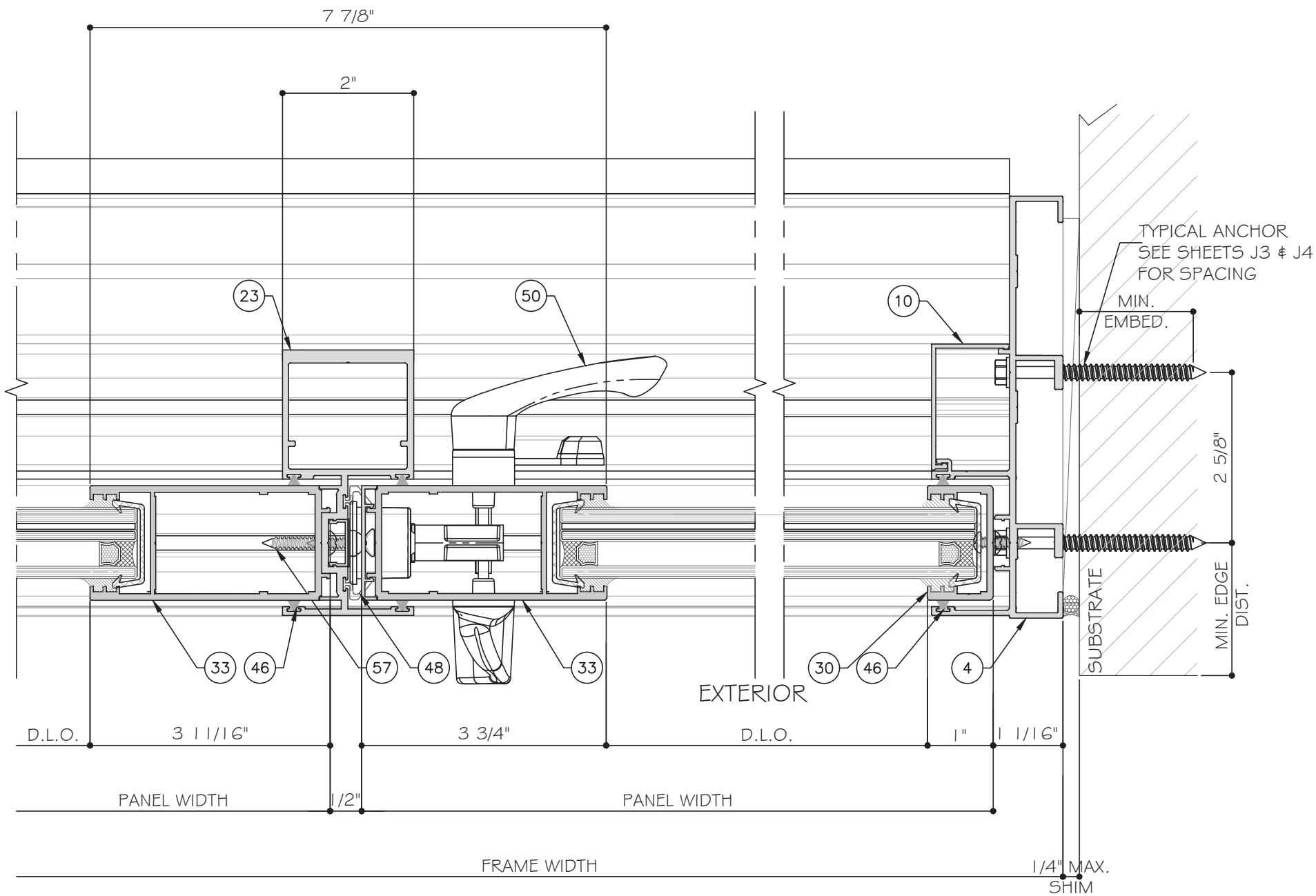
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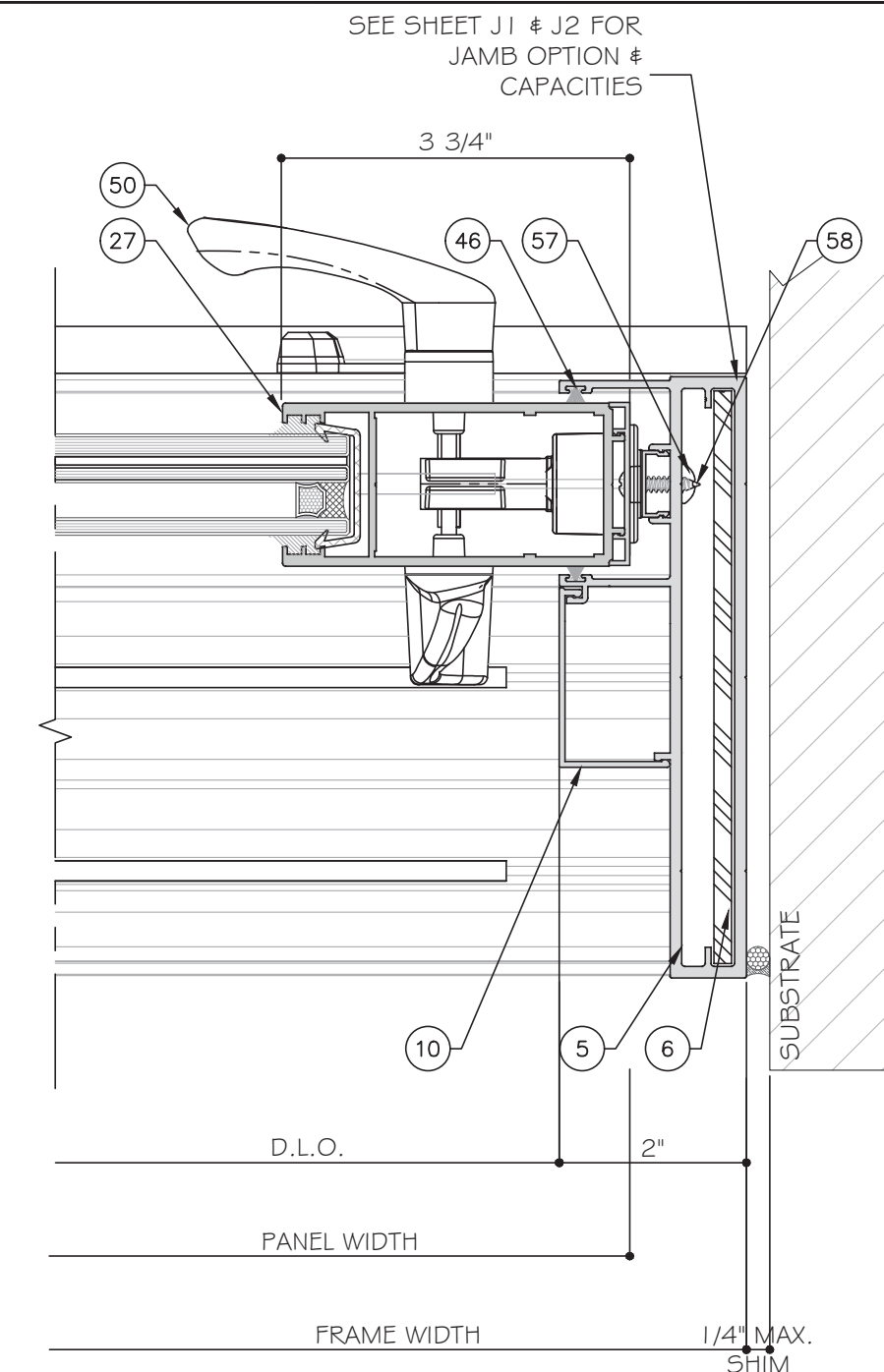


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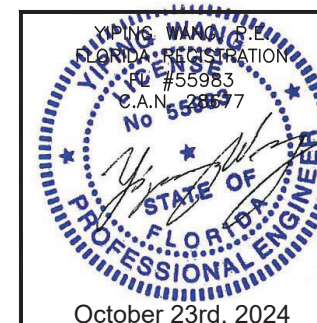
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DETAIL

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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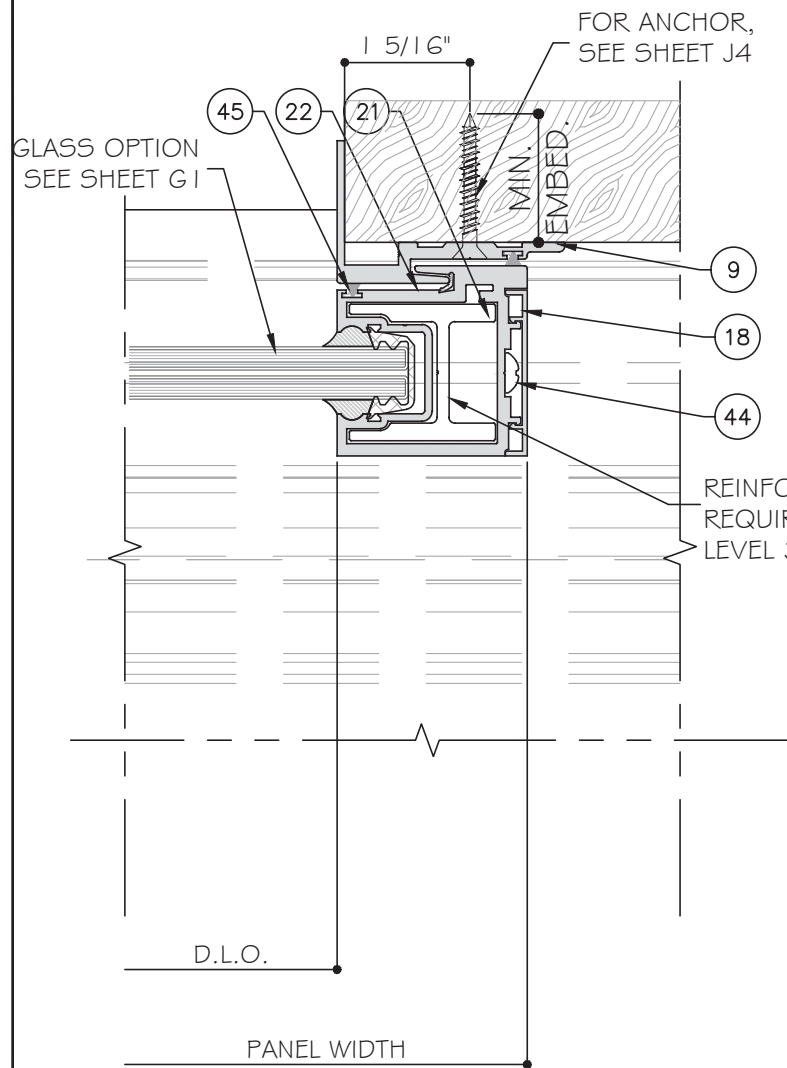
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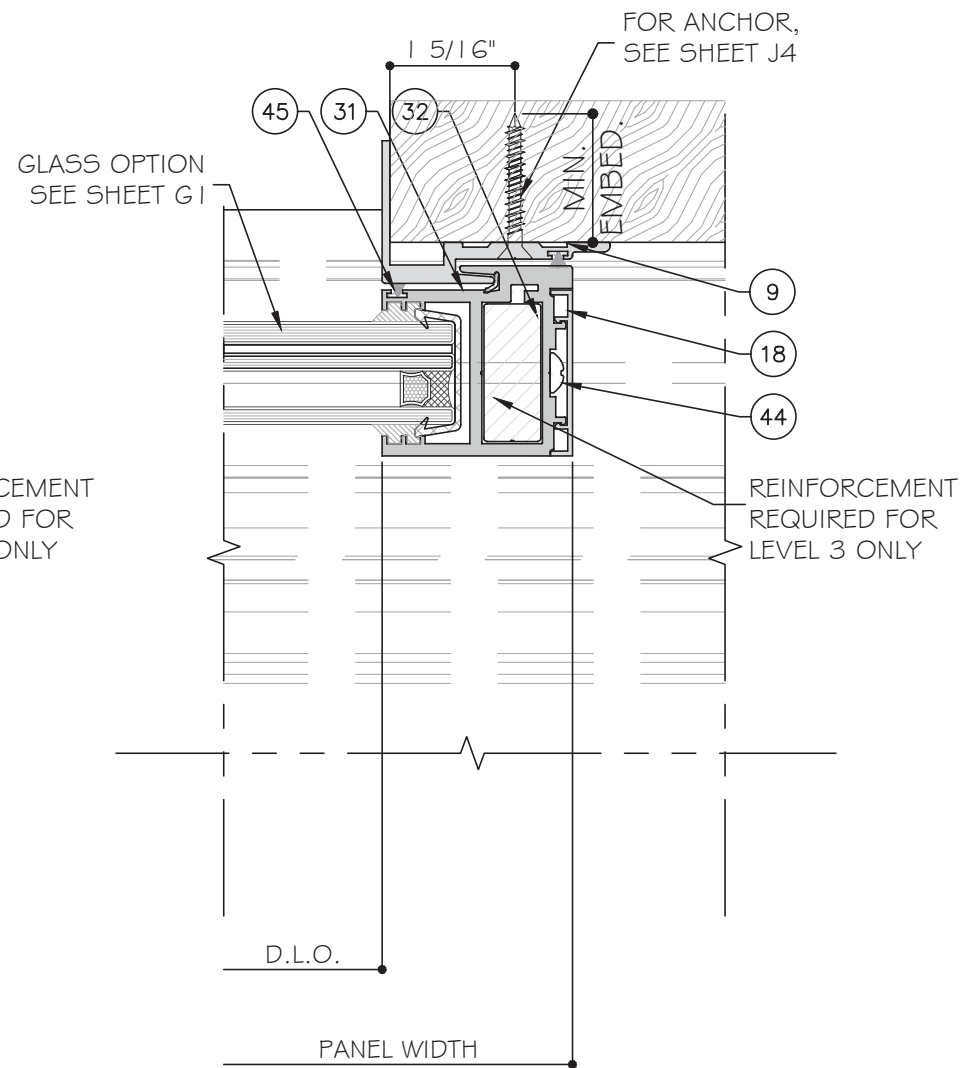
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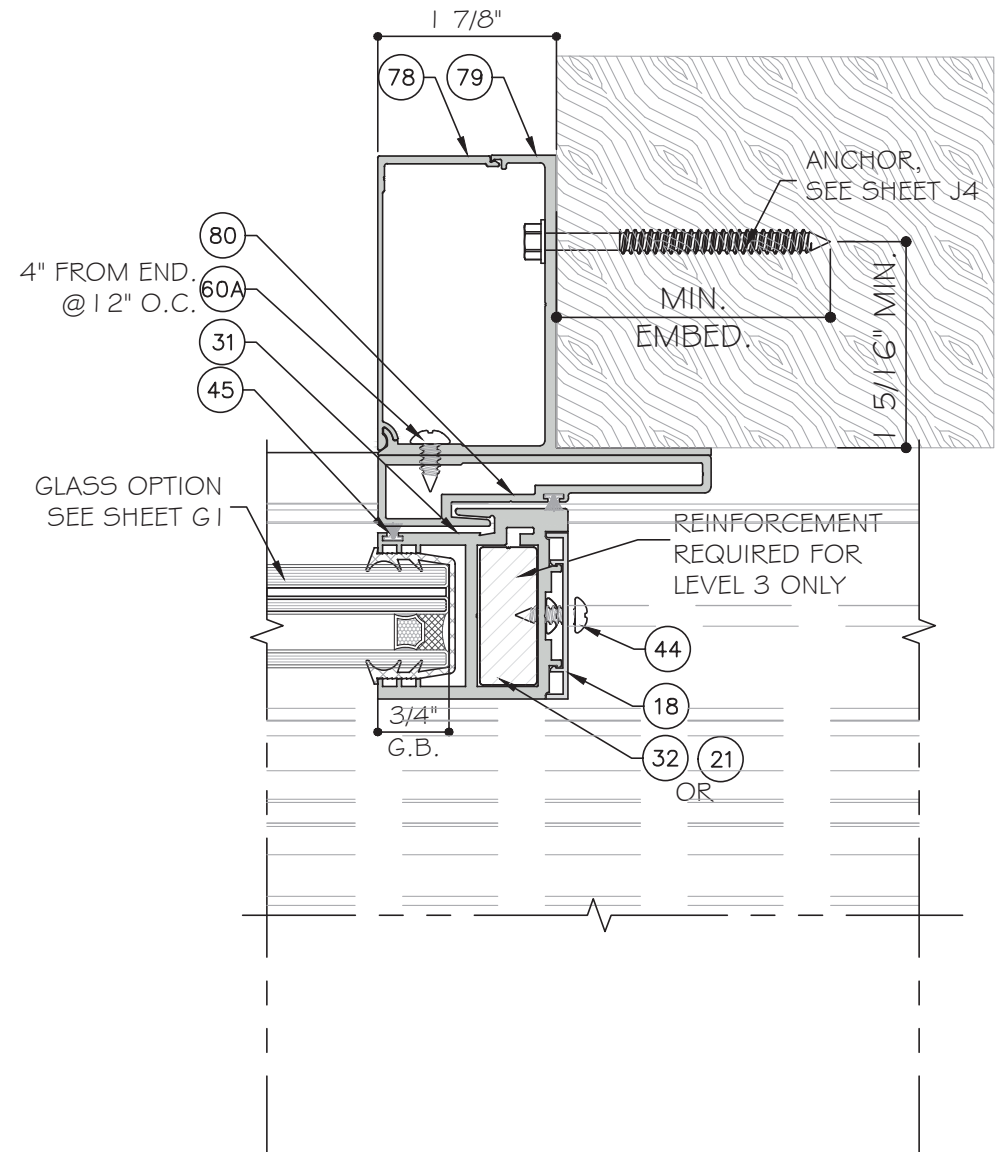
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30
D12
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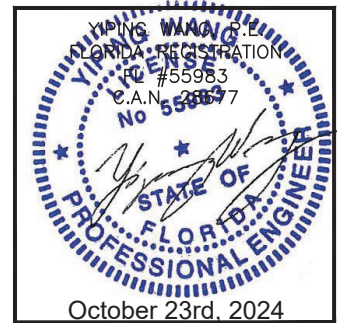


30
D12
DETAIL
OPTION



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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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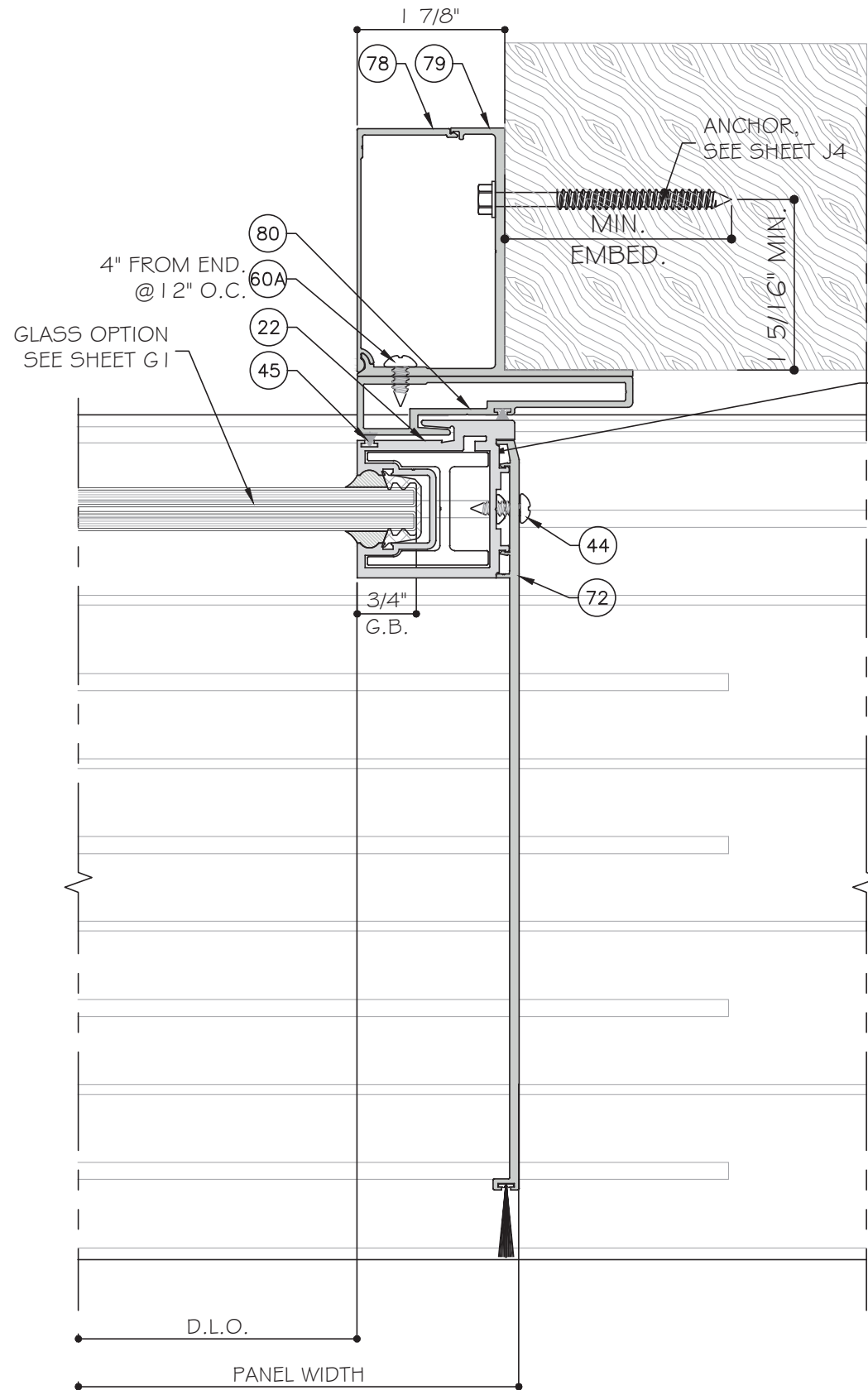
ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)			
Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	

Drawn Date: 10.08.2024

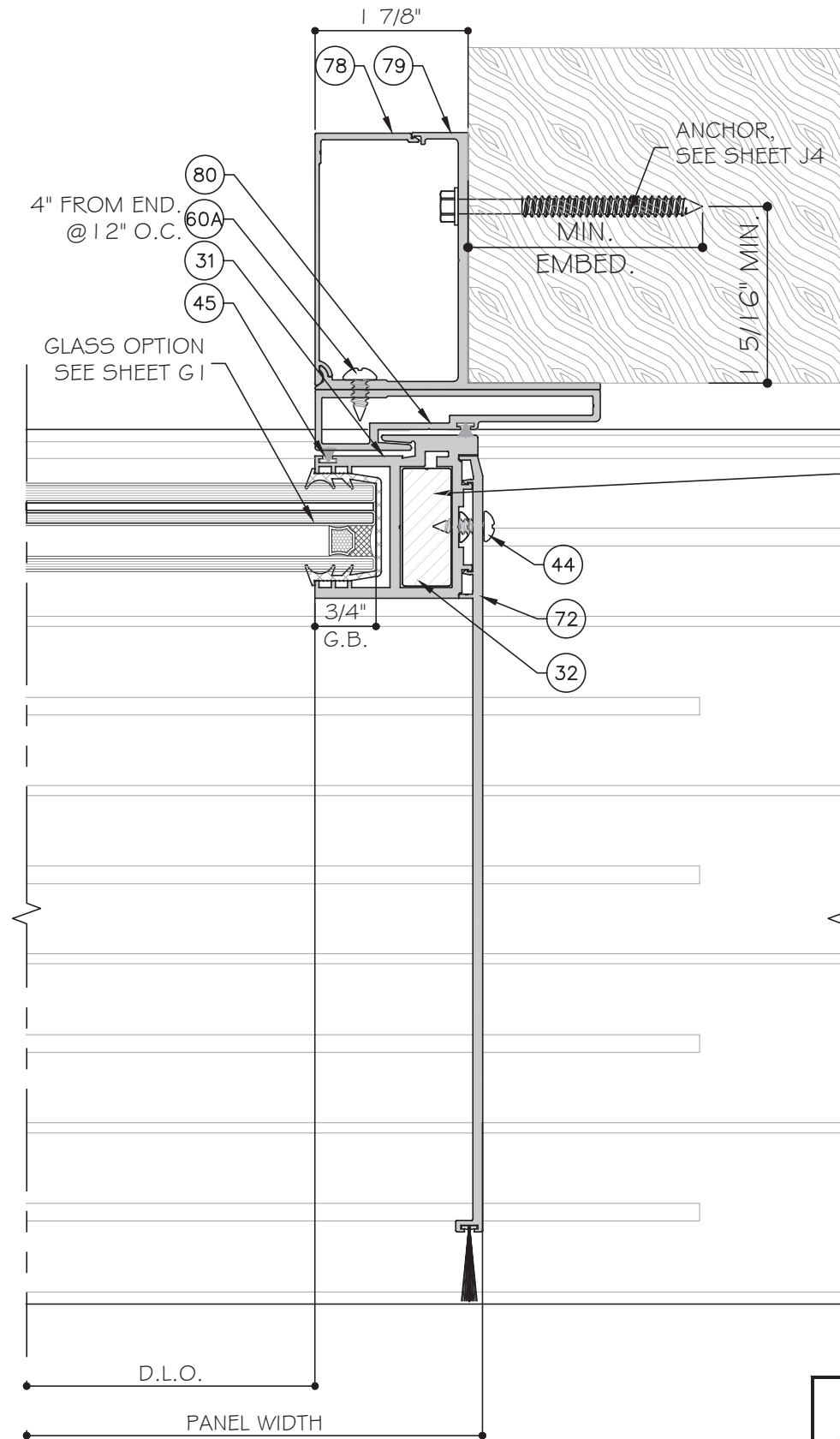
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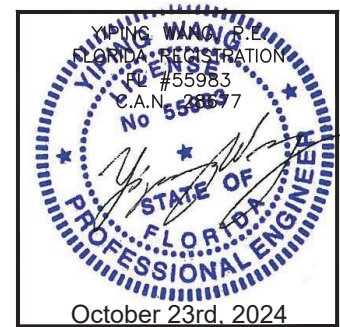


30A DETAIL
D12A



30A DETAIL
D12A OPTION

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

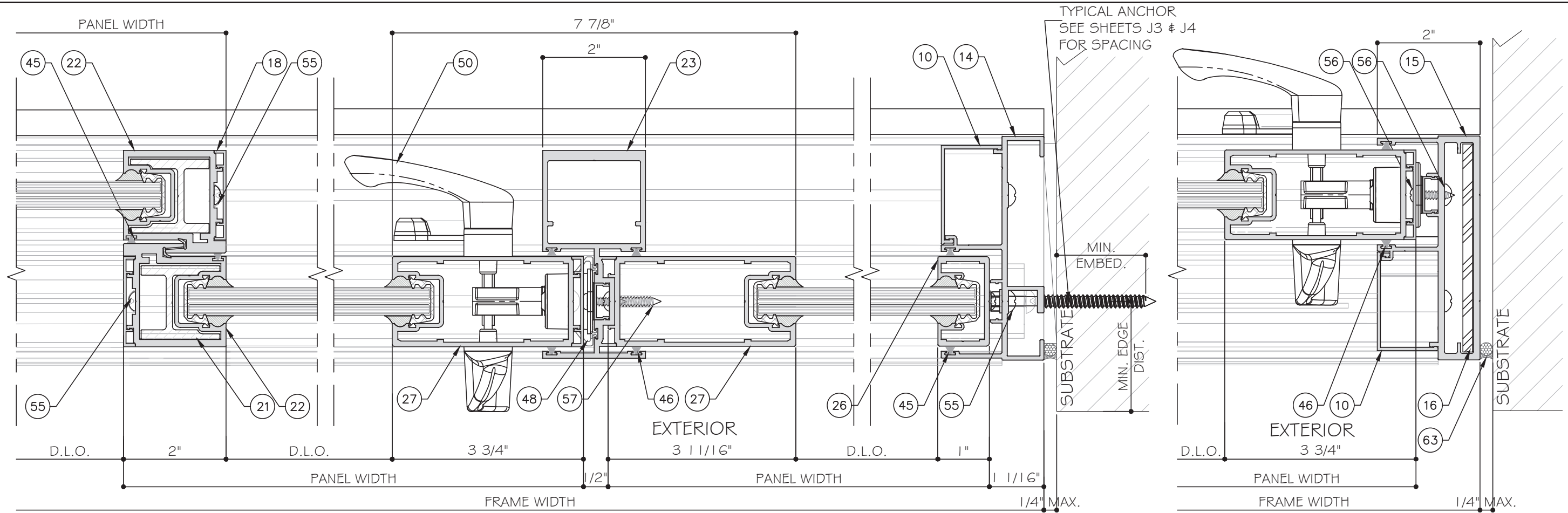


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Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	REVISION
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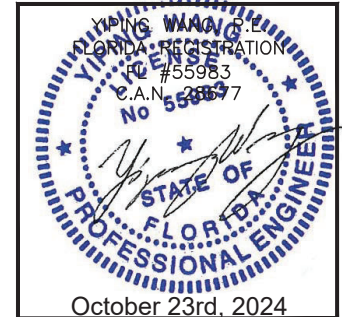


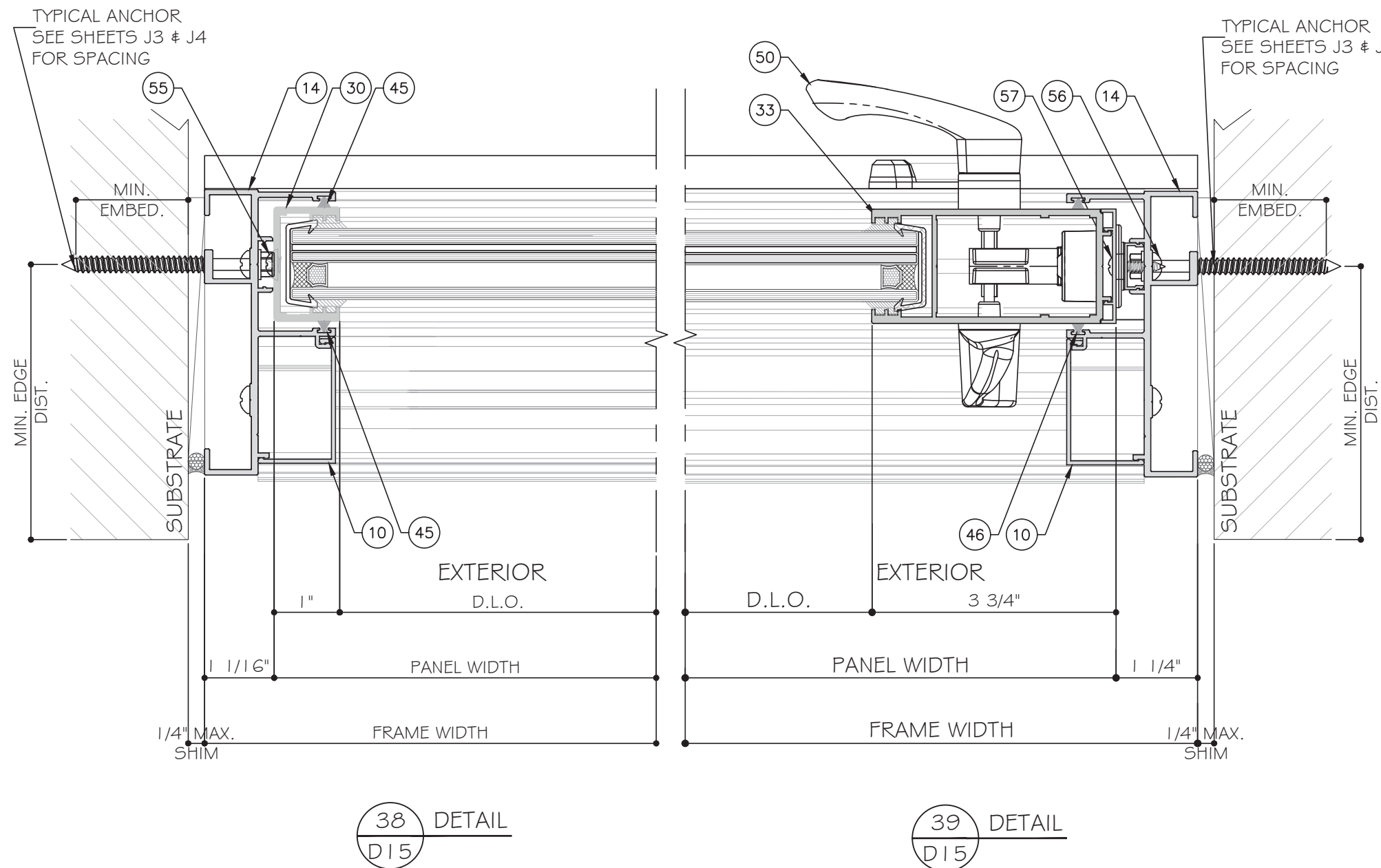
Rev	Date	Drawn By	Description
1	10.08.2024	James	REVISION
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.

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

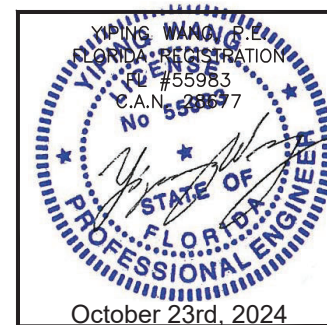
TWO (2) TRACK DOOR DETAILS





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	

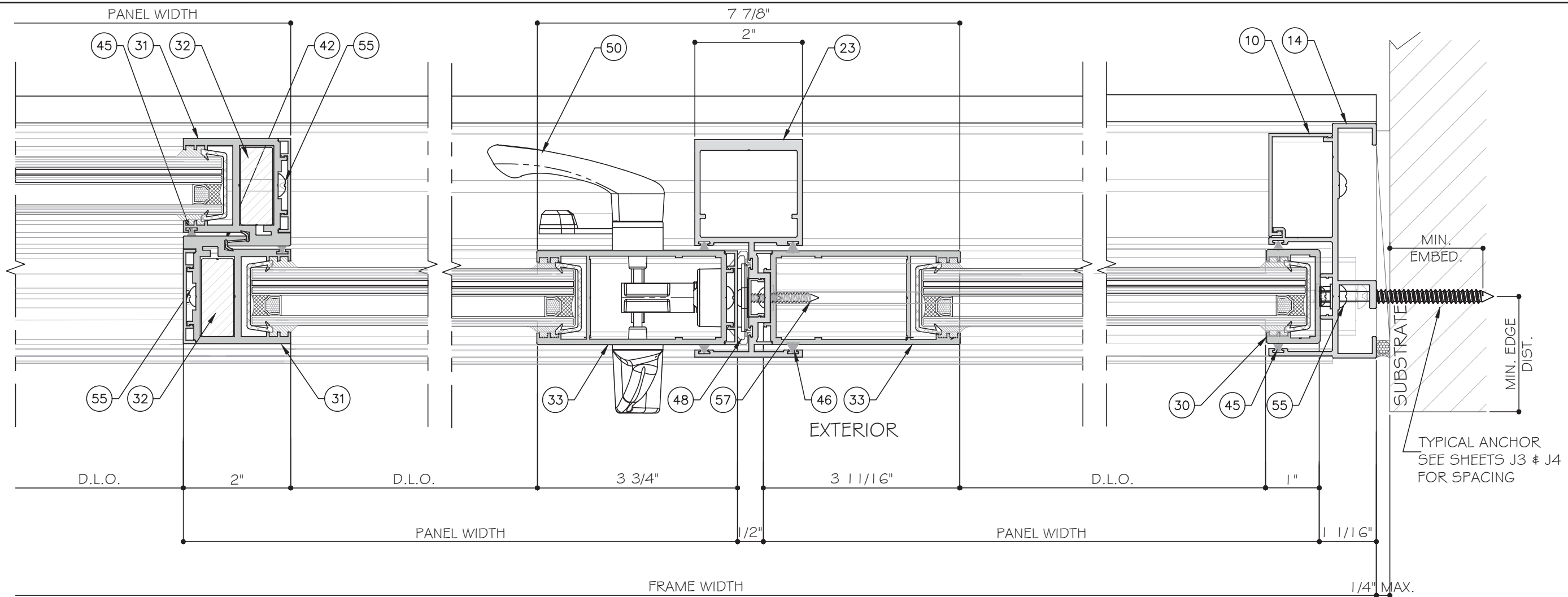
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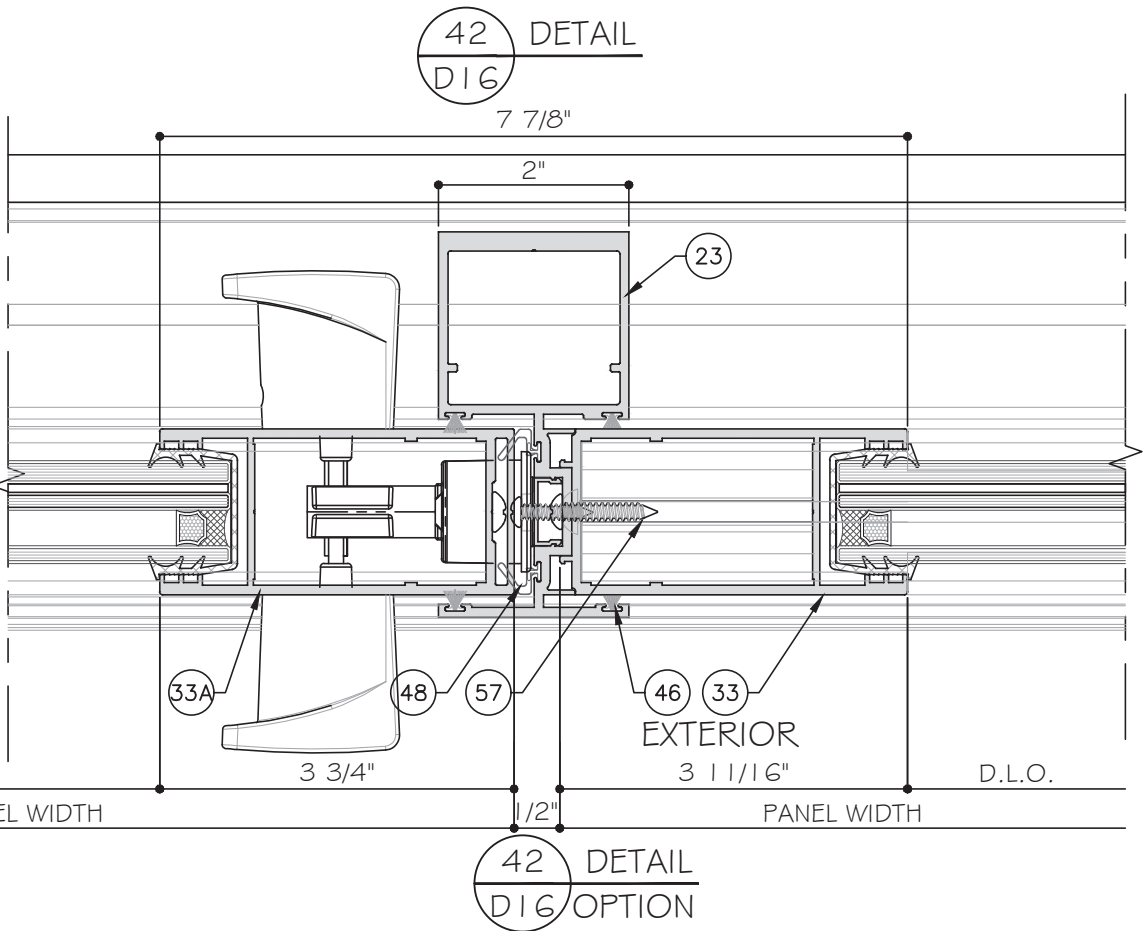
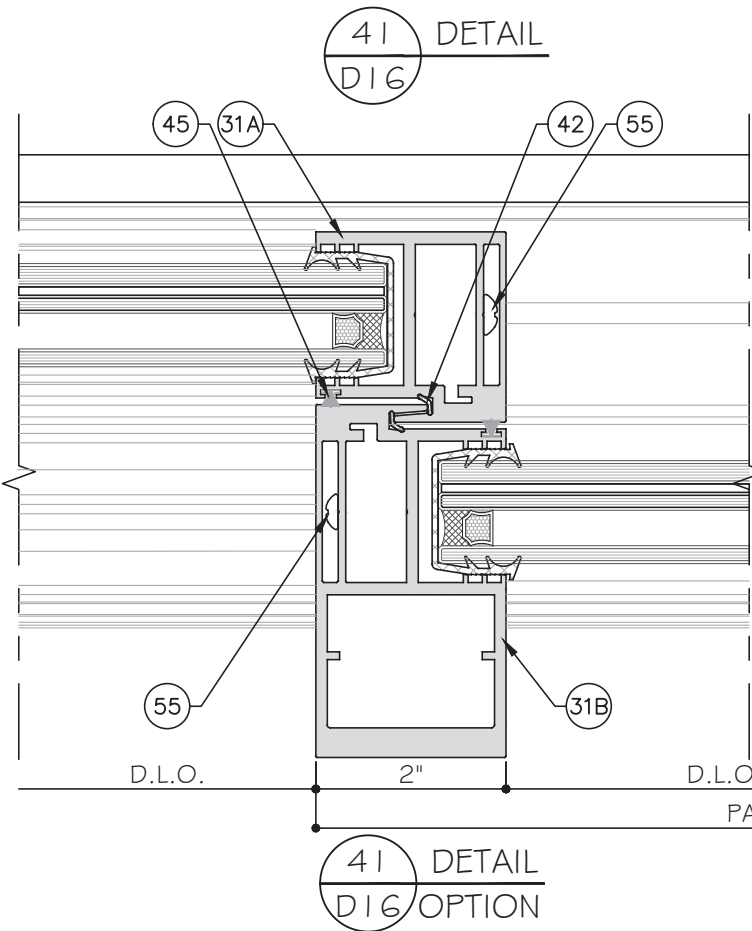
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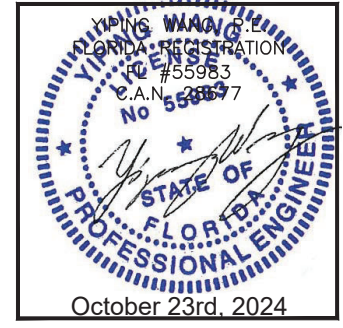


MIN. EMBED.
SUBSTRATE
MIN. EDGE DIST.
TYPICAL ANCHOR
SEE SHEETS J3 & J4
FOR SPACING



43 D16
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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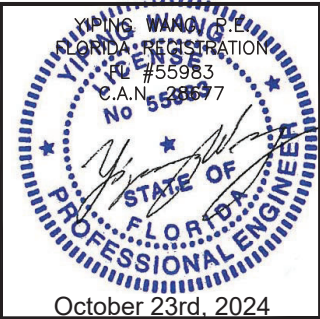
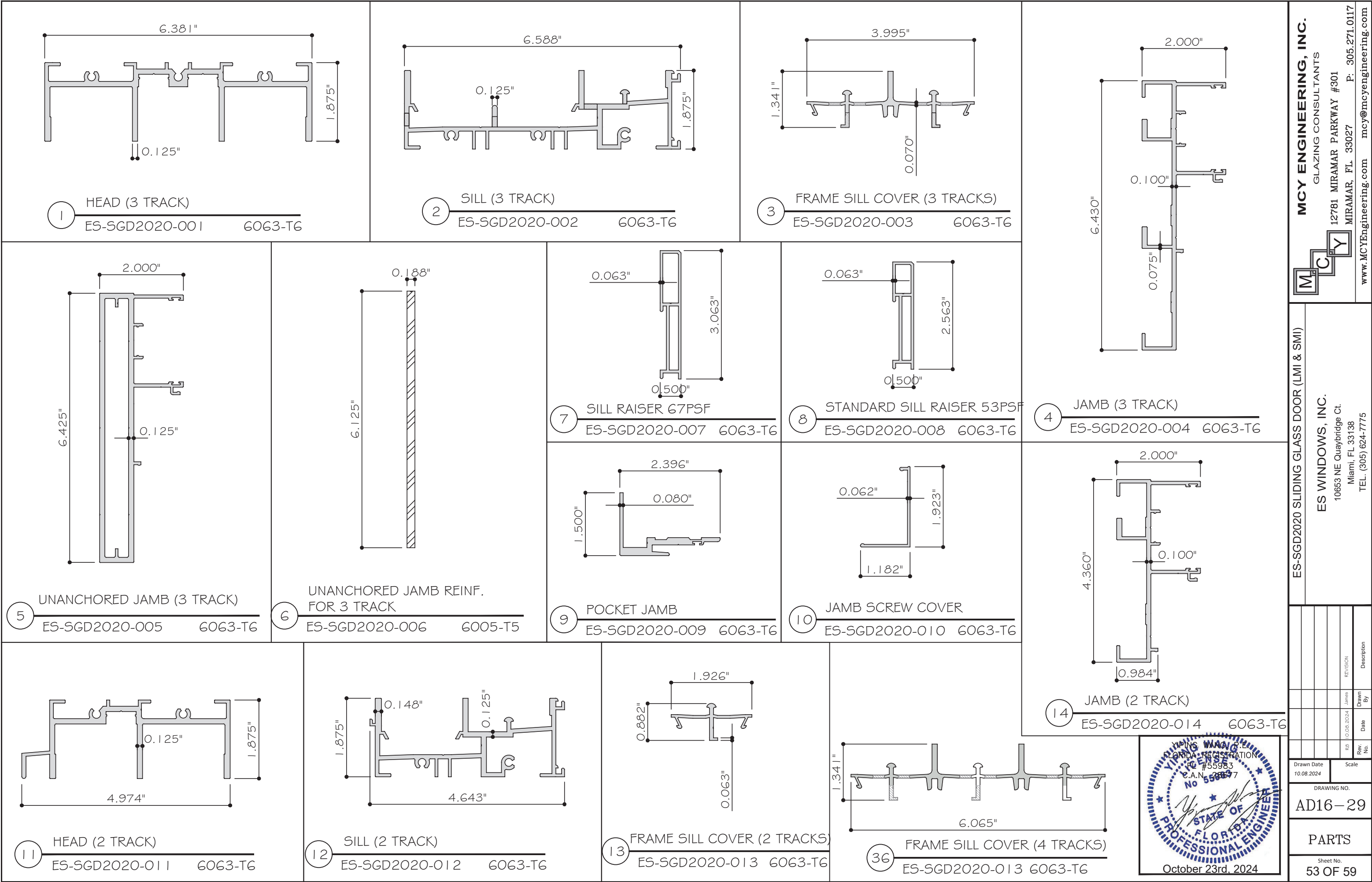
ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)			
Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	

Drawn Date: 10.08.2024

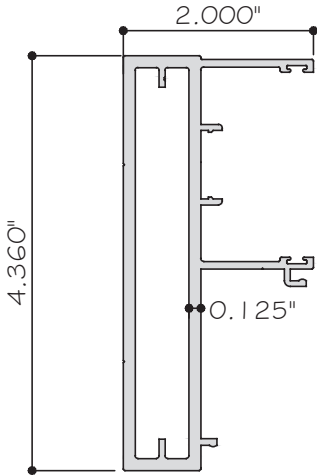
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DRAWING NO.: AD16-29

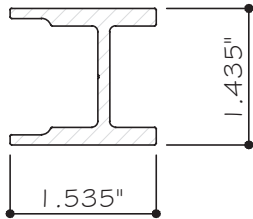
Sheet No.: 52 OF 59



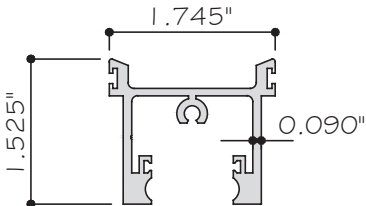
MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com			
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Rev	Date	Drawn By	Description
1	10.08.2024	James	REVISION
Drawn Date 10.08.2024		Scale	
DRAWING NO. AD16-29			
PARTS			
Sheet No. 53 OF 59			



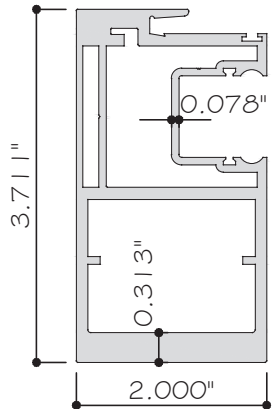
15 UNANCHORED JAMB (2 TRACK)
ES-SGD2020-015 6063-T6



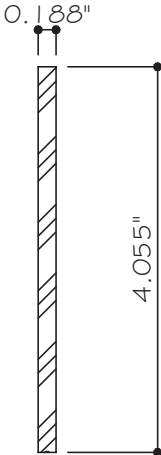
21 REINF. FOR INTERLOCK
ES-SGD2020-021 6005-T5



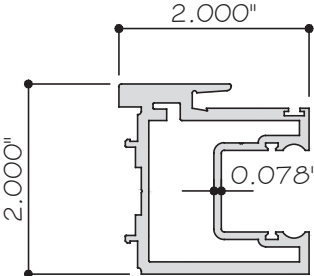
24 TOP RAIL FOR LAMINATED GLASS
ES-SGD2020-024 6063-T6



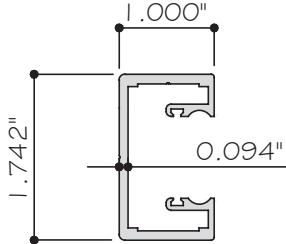
22B INTERLOCK HEAVY FOR LAMINATED
ES-SGD2020-085 6005-T5



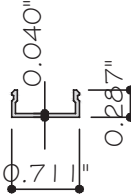
16 UN-ANCHORED JAMB REINF.
FOR 2 TRACK
ES-SGD2020-016 6063-T6



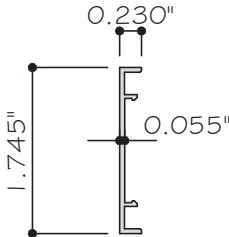
22 INTERLOCK FOR LAMINATED GLASS
ES-SGD2020-022 6063-T6



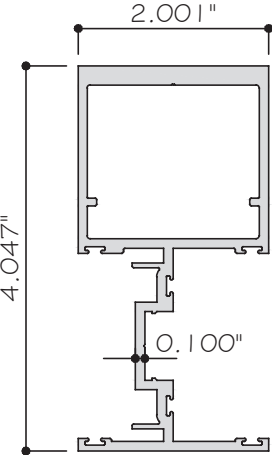
26 FIXED STILE FOR LAMINATED GLASS
ES-SGD2020-026 6063-T6



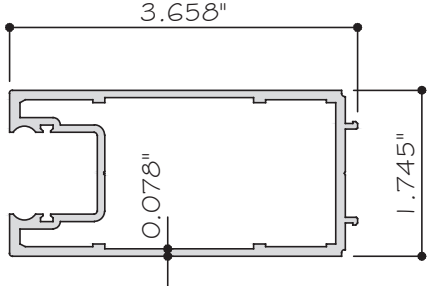
17 JAMB SCREW COVER
ES-6011 6063-T6



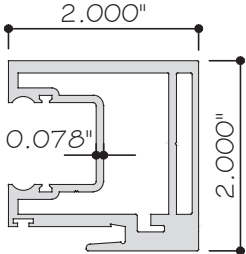
18 INTERLOCK AND LOCKSTILE SCREW COVER
ES-SGD2020-018 6063-T6



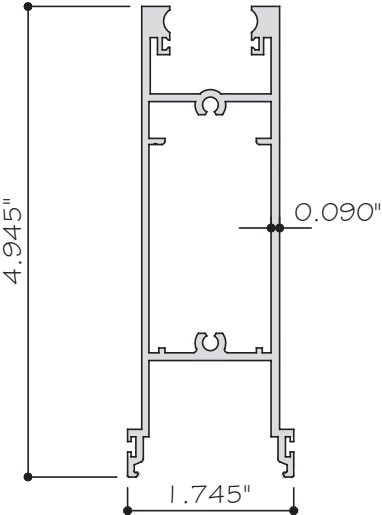
23 ASTRAGAL
ES-SGD2020-023 6063-T6



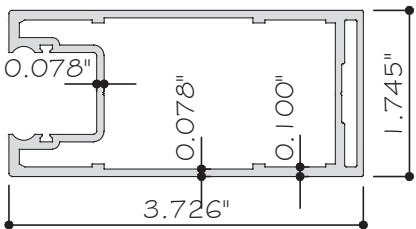
27 LOCK STILE FOR LAMINATED GLASS
ES-SGD2020-027 6063-T6



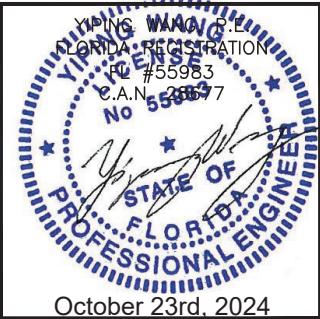
22A INTERLOCK FOR LAMINATED
ES-SGD2020-084 6005-T5



25 BOTTOM RAIL FOR LAMINATED GLASS
ES-SGD2020-025 6063-T6



27A LOCKSTILE FOR LAMINATED
ES-SGD2020-088 6063-T6



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Rev.	Date	Drawn By	Description
1	10.08.2024	James	

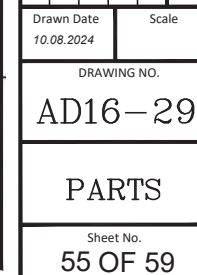
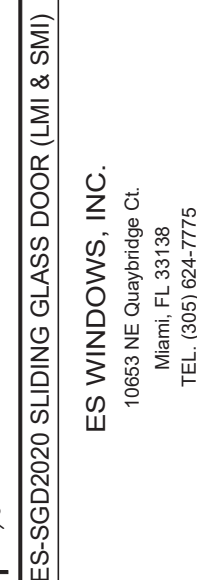
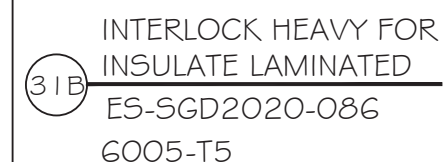
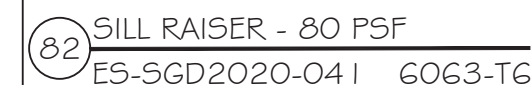
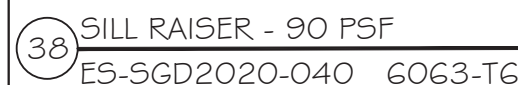
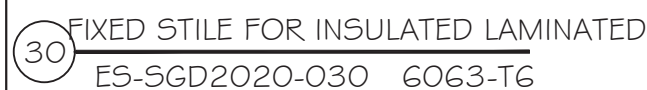
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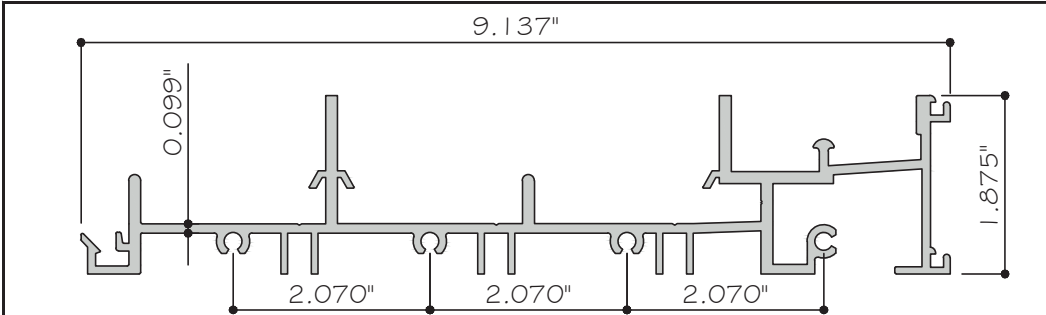
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AD16-29

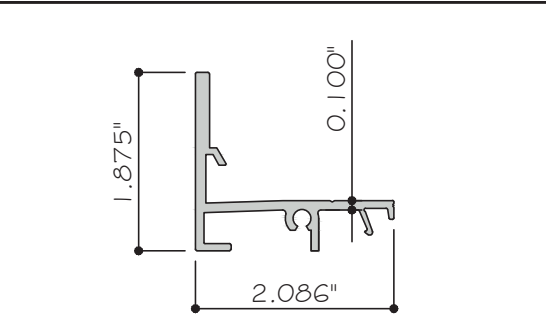
PARTS

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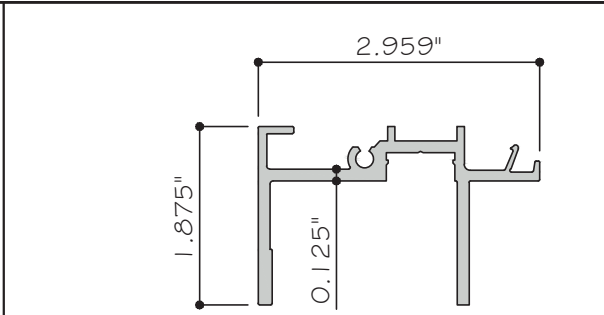




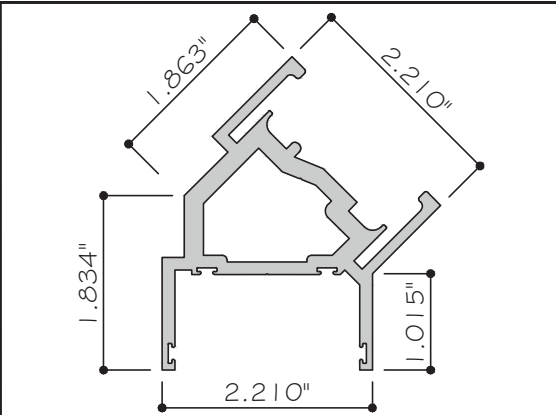
65 FRAME SILL - 5 TRACKS
ES-SGD2020-055 6063-T6



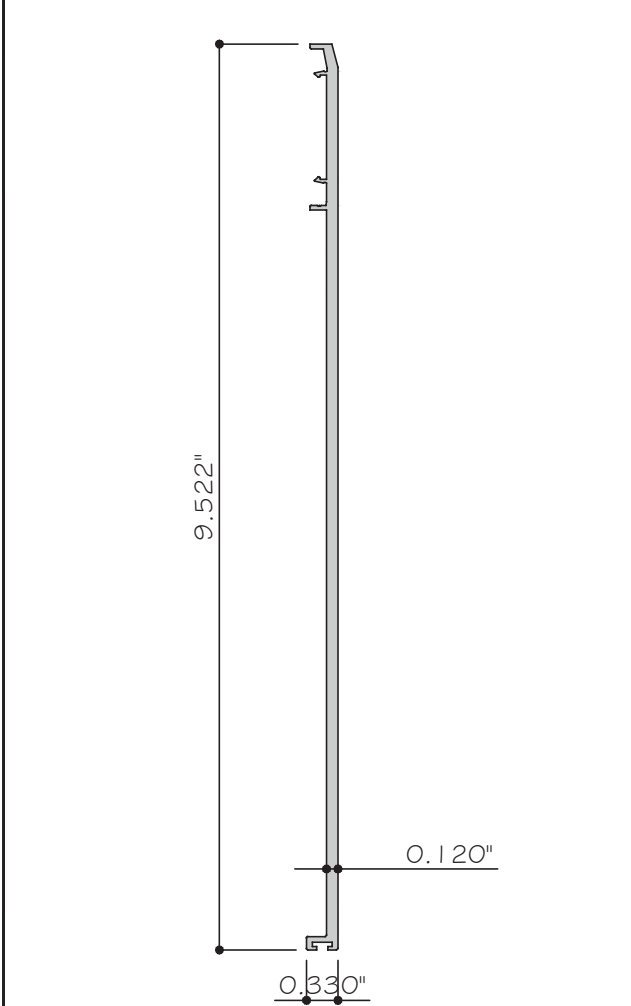
66 FRAME FRONT SILL
ES-SGD2020-054 6063-T6



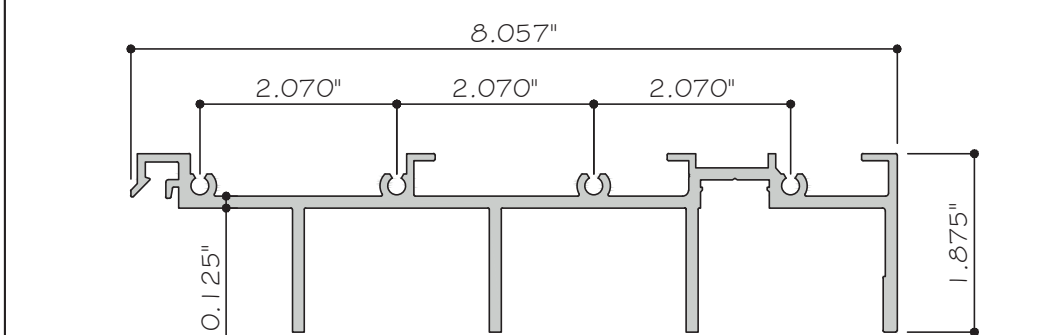
67 FRAME FRONT HEAD
ES-SGD2020-062 6063-T6



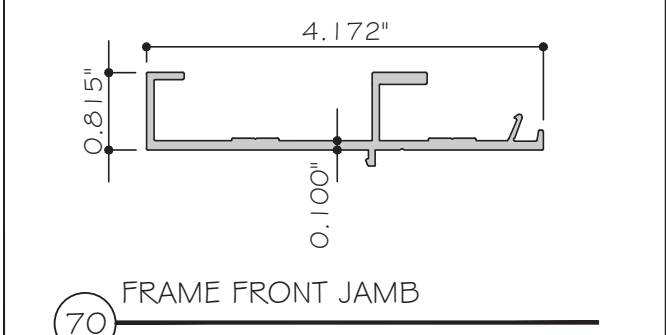
71 FRAME FRONT SILL
ES-SGD2020-056 6063-T6



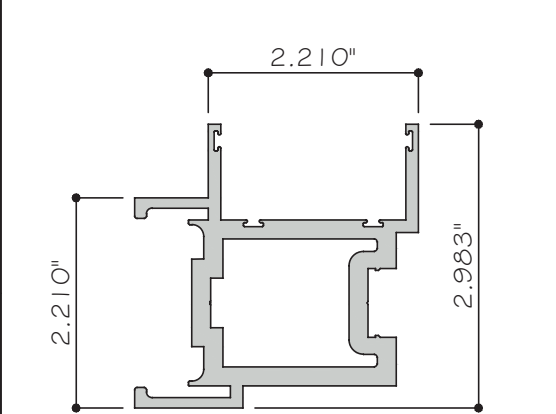
72 POCKET DOOR CLOSER - 5 TRACKS
ES-SGD2020-061 6063-T6



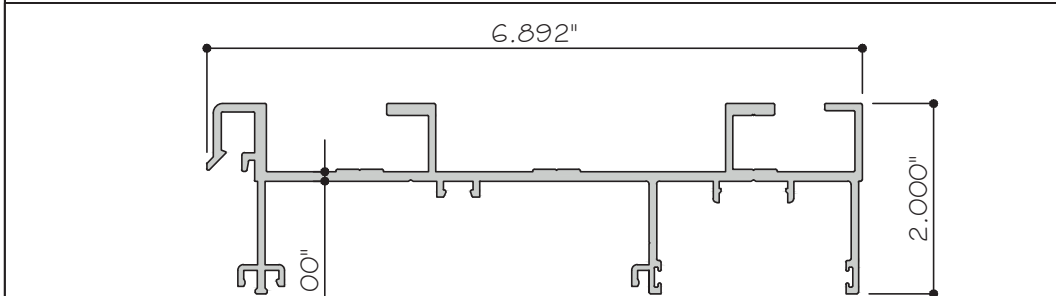
69 FRAME HEAD - 5 TRACKS
ES-SGD2020-063 6063-T6



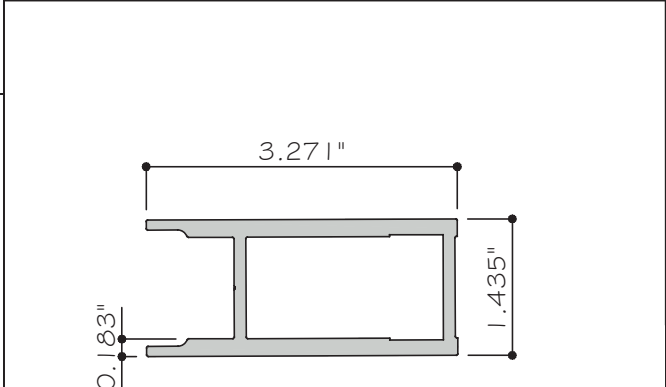
70 FRAME FRONT JAMB
ES-SGD2020-064 6063-T6



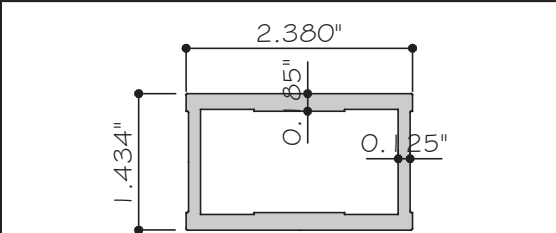
75 FRAME FRONT SILL
ES-SGD2020-068 6063-T6



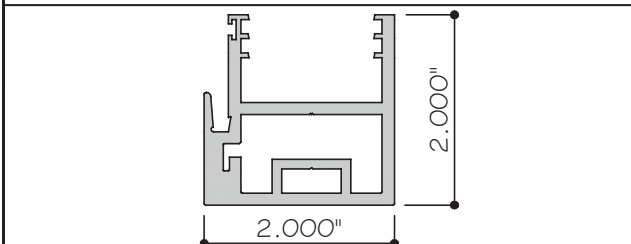
73 JAMB- 5 TRACKS
ES-SGD2020-065 6063-T6



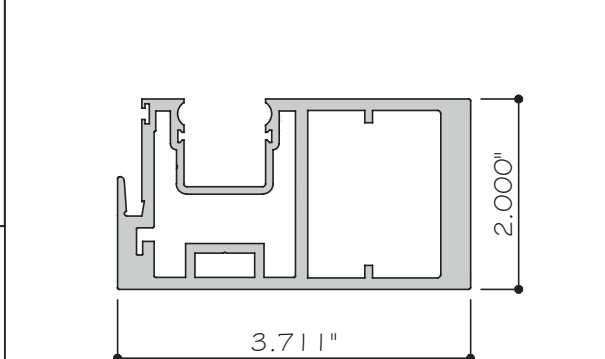
74 REINF. FOR LOCK STILE LAM. GLASS
ES-SGD2020-071 6063-T6



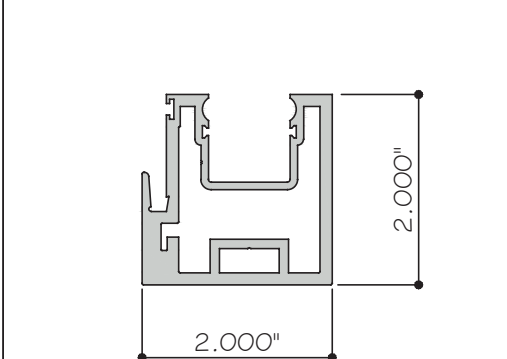
81 REINF. FOR LOCK STILE (INSL-LAM.)
ES-SGD2020-07X 6063-T6



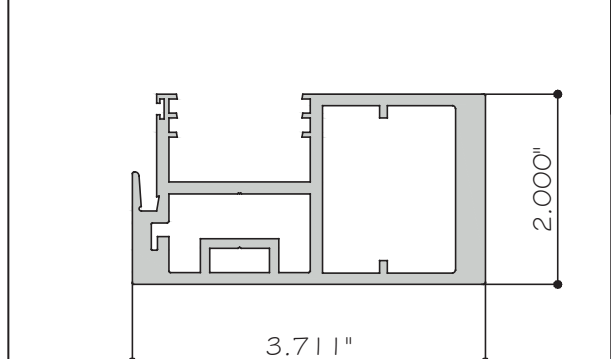
87A INTERLOCK FOR INSULATED LAMINATED GLASS
ES-SGD2020-087A 6005-T5



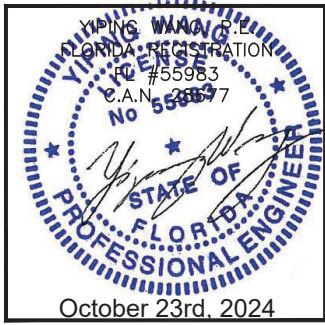
84A INTERLOCK HEAVY FOR LAMINATED GLASS
ES-SGD2020-084A 6005-T5



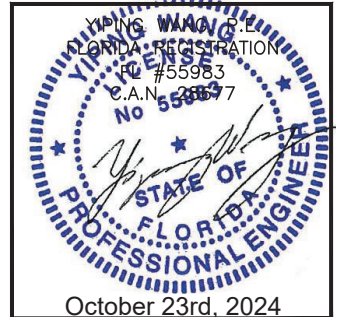
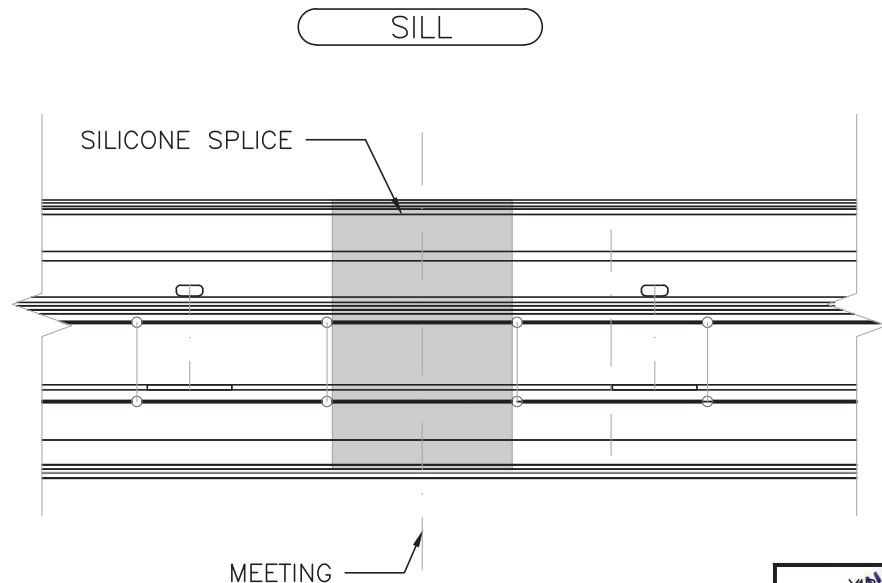
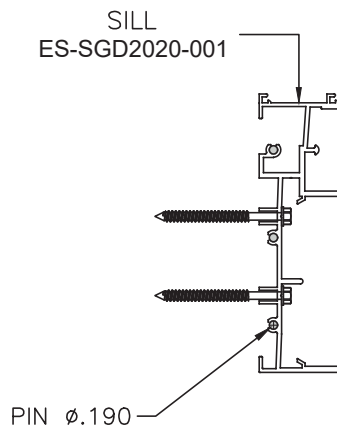
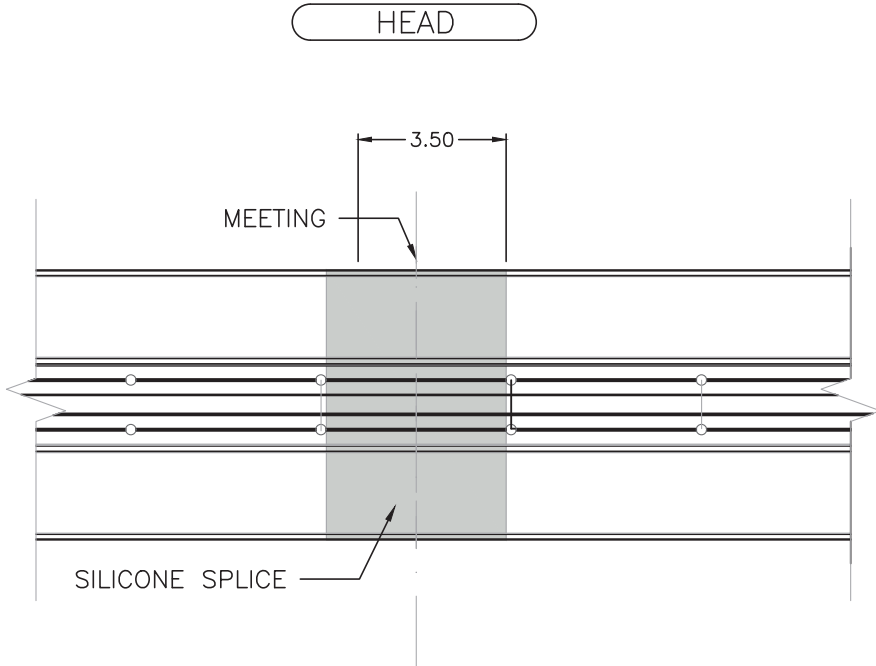
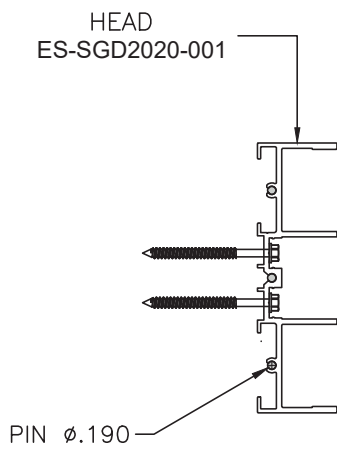
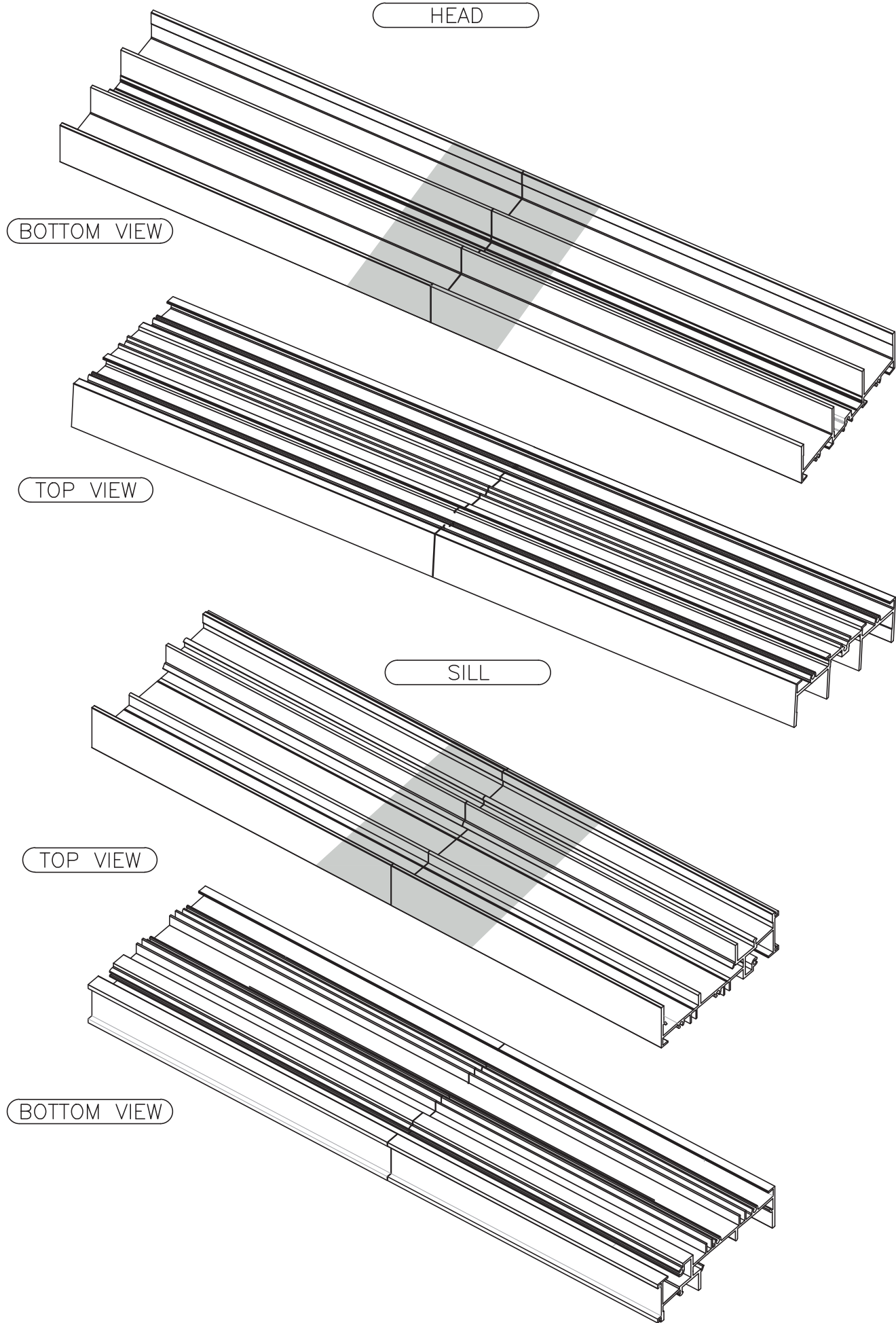
85A INTERLOCK FOR LAMINATED GLASS
ES-SGD2020-085A 6005-T5



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



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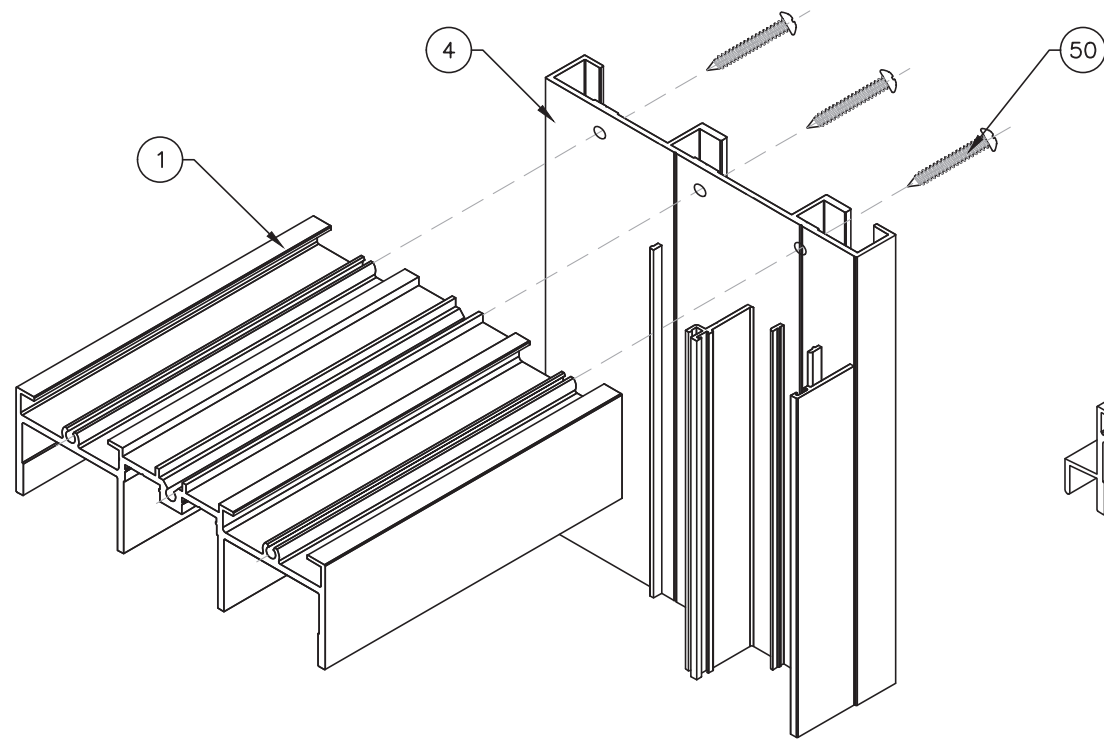
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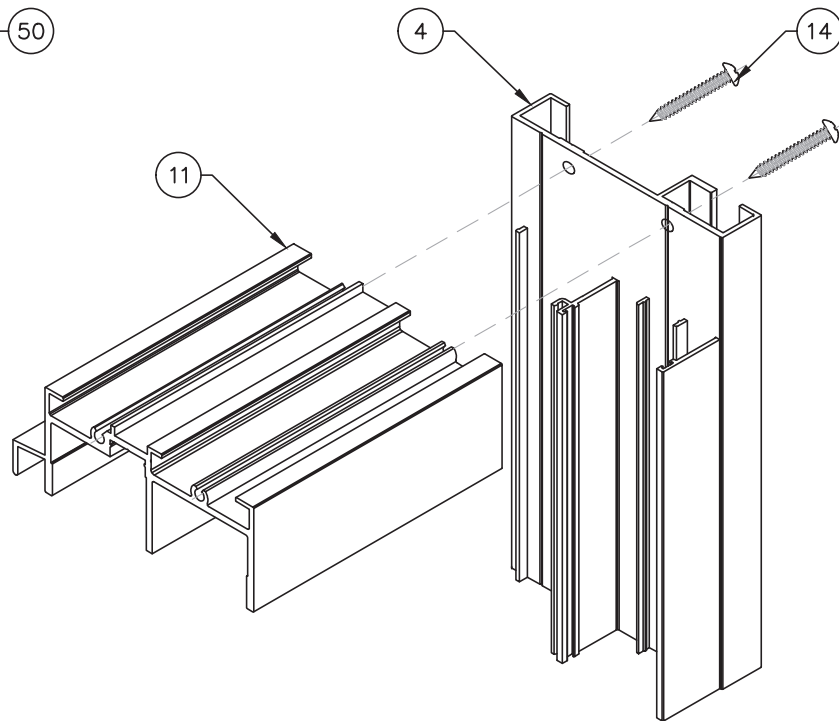
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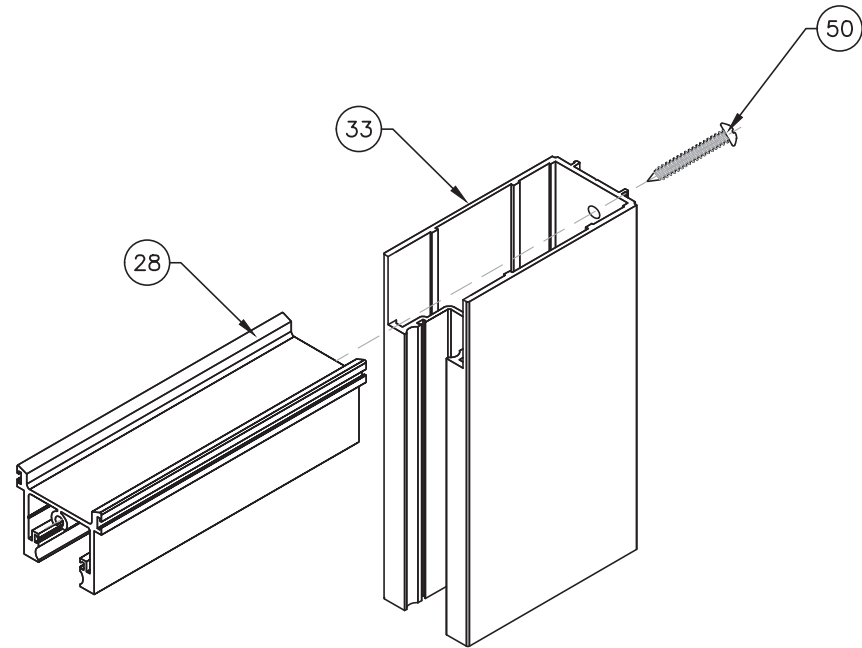
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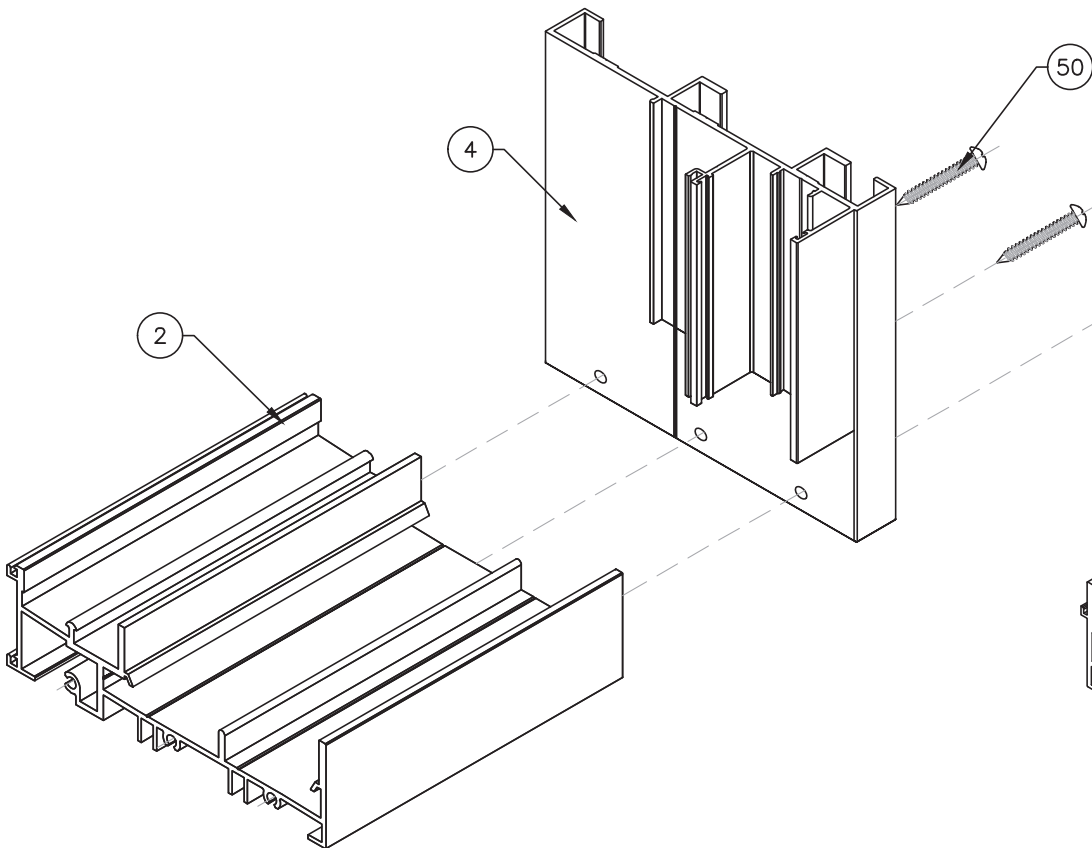
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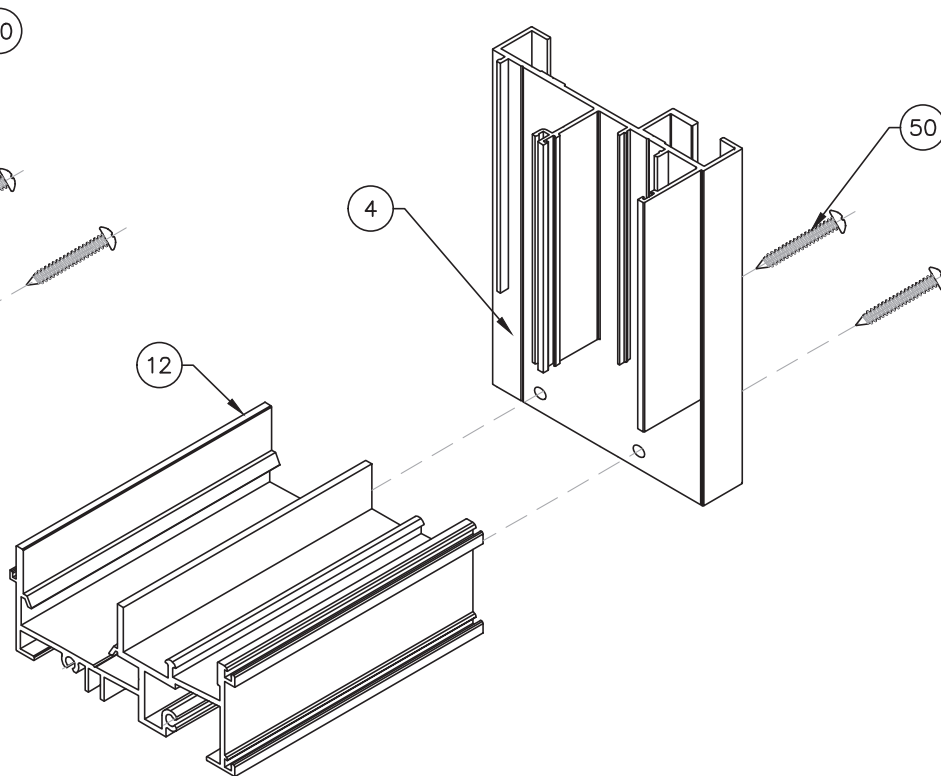
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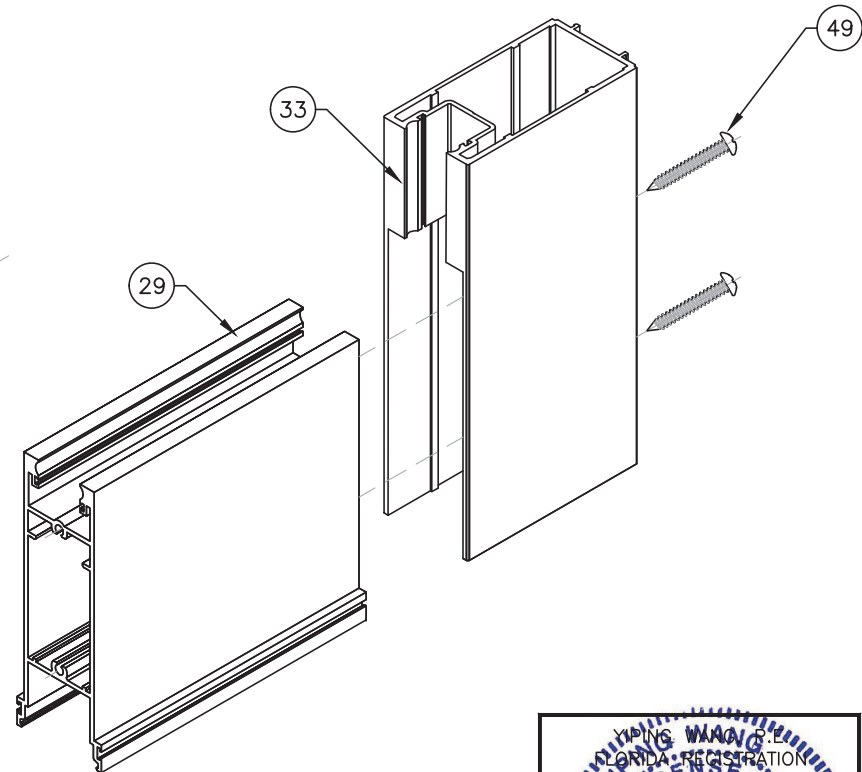
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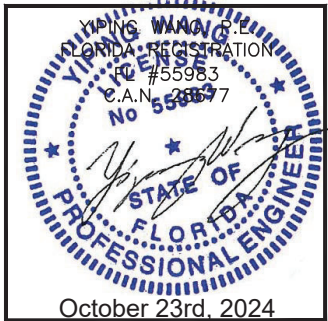
FRAME BOTTOM CORNER
3 TRACK SHOWN



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2 TRACK SHOWN



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