



Product Approval
USER: Public User

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OFFICE OF THE
SECRETARY

FL #

Application Type

Code Version

Application Status

FL22267-R13

Revision

2023

Approved

Comments

Archived

☐

Product Manufacturer

Address/Phone/Email

E.S. Windows, Inc.

10653 NE Quaybridge Ct.

Miami, FL 33138

(305) 638-5151

ssabagh@energiasolarsa.com

Authorized Signature

Yiping Wang

mcyengineering@outlook.com

Technical Representative

Address/Phone/Email

Samir Sabagh

3550 NW 49th St.

Miami, FL 33142

(305) 638-5151

ssabagh@energiasolarsa.com

Quality Assurance Representative

Address/Phone/Email

Category

Subcategory

Exterior Doors

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

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

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](#)

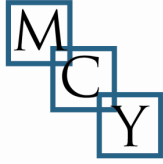
[Contact Us](#) :: [2601 Blair Stone Road, Tallahassee FL 32399](#) Phone: 850-487-1824

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Product Approval Accepts:





MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Parkway, Suite 301
Miramar, FL. 33027
Mobile: (305) 588-5224
Office: (305) 271-0117

PRODUCT APPROVAL EVALUATION REPORT

<u>Product Manufacturer:</u> E.S. WINDOWS, Inc. 10653 NE Quaybridge Ct. Miami, FL 33138	<u>Product Name/Model & Description:</u> Series SGD 2020 SLIDING GLASS DOOR (L.M.I. & S.M.I.) (HVHZ) Sliding Glass Door – large & small missile impact
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Scope: This product has been evaluated by the below-signed Florida Professional Engineer for compliance with the Code noted herein and is, for the purpose intended, at least equivalent to that required by the Code, in accordance with section 553.842 F.S. & chapter 61G20-3.005 F.A.C. Re-evaluation of this product shall be required following applicable Code modifications or revisions.

Code: 8th Edition Florida Building Code (2023), inclusive of all Supplements effective as of this report date.

Compliance Method: 61G20-3.005 (1)(d) – Evaluation Report from a licensed Professional Engineer

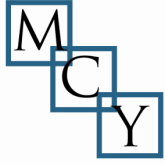
Product Description: Product Approval **Drawing #AD16-29**, prepared by MCY Engineering, signed and sealed by Yiping Wang, P.E., is an integral part of this Evaluation Report.

Limitations & Conditions of Use:

- This product has been evaluated for use **inside and outside of the HVHZ** (High Velocity Hurricane Zone)
- Impact Resistance: **Large and Small Missile Impact**
- Refer to Product Approval Drawing noted above for:
 - Maximum allowable wind loads at related maximum allowable size(s).
 - Other load limitations applicable to the product, if any.
 - Overall dimensions and material/grade of main product components, accessories, etc.
 - Illustrated diagrams of the attachment of the product to the structure
 - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.



December 27th, 2023



Test Reports:

Mandatory Tests (Tested in accordance with Florida Building Code Tests Protocols)

Test Lab	Report Number	Test Report Date	Test Standard & Description
Blackwater Testing, Inc. -West Palm Beach, FL	<i>BT-ESW-18-002, signed and sealed by Constantin Bortes, P.E.</i>	05/17/2018	TAS 201 (large missile impact) TAS 202(uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (air infiltration test) ASTM E331 (water infiltration test) AAMA 1304 (forced entry test)
Fenestration Testing Laboratory FL33166	<i>FTL-12390 signed and sealed by Marlin Binson, PE</i>	12/17/2020	TAS 201 (large missile impact) TAS 202 (uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (Air Infiltration) ASTM E331 (Water Resistance Test) ASTM F842 (Force Entry)
Blackwater Testing, Inc. -West Palm Beach, FL	<i>BT-ESW-16-010, signed and sealed by Constantin Bortes, P.E.</i>	03/23/2017	TAS 201 (large missile impact) TAS 202(uniform static test) TAS 203 (cyclic wind pressure loading) ASTM E283 (air infiltration test) ASTM E331 (water infiltration test) ASTM 1886(cyclic wind pressure loading) ASTM 1996 (large missile impact) AAMA 1303 (forced entry test)
Blackwater Testing, Inc. -West Palm Beach, FL	<i>BT-ESW-23-003, signed and sealed by MICHAEL D CALDWELL, P.E.</i>	12/07/2023	TAS 201 (large missile impact) TAS 202(uniform static test) TAS 203 (cyclic wind pressure loading)

Engineering Analysis: The following engineering analyses and/or calculations have been performed:

- No comparative analysis has been performed for conditions other than those tested.
- No rational analysis has been performed.
- Anchor calculations are based on manufacturer's published anchor capacity, anchor Notice of Acceptance by Miami Dade County.



December 27th, 2023

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

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

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

10653 NE Quaybridge Ct.
Miami, FL 33138

TEL. (305) 624-7775

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

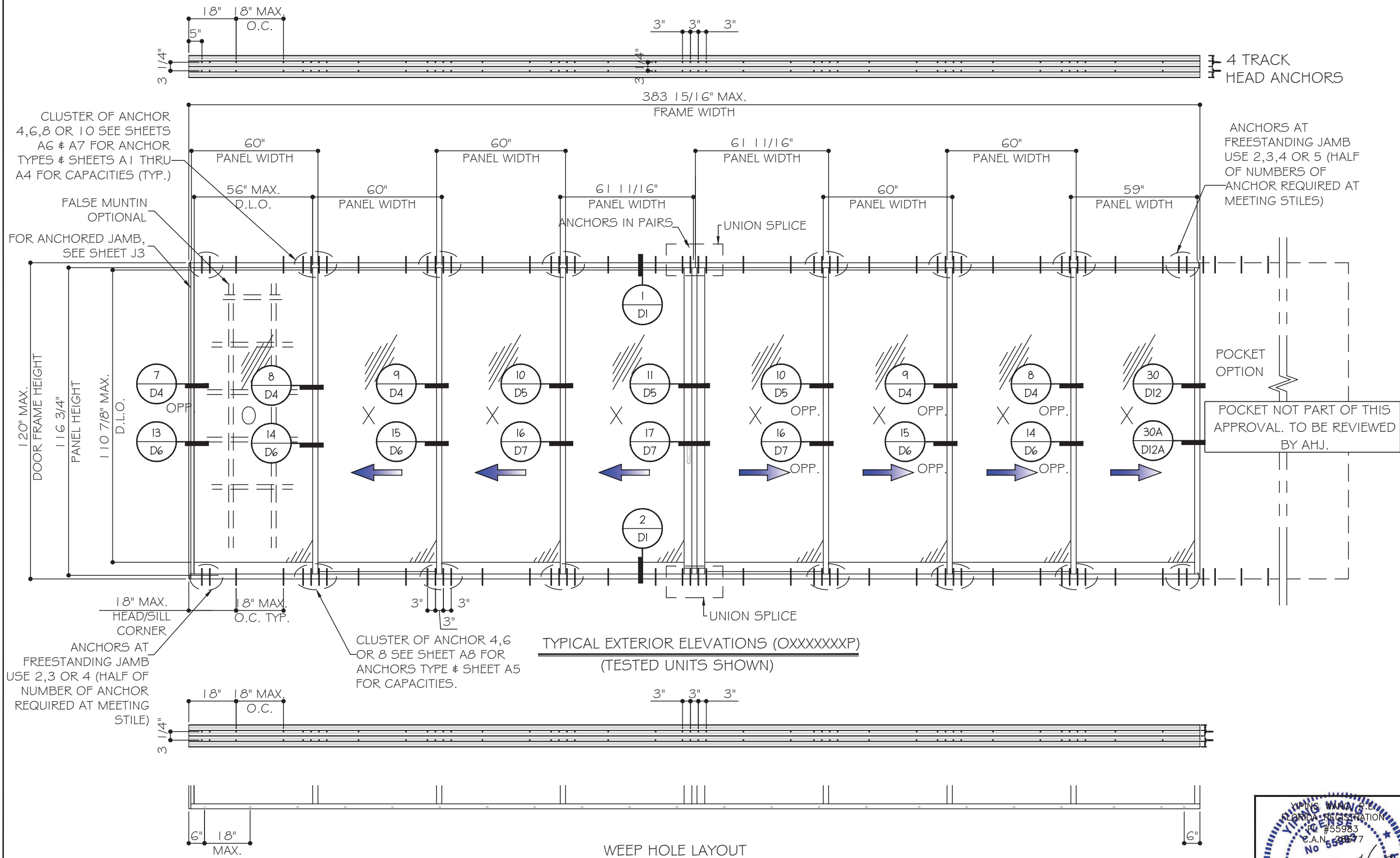
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12781 MIRAMAR PARKWAY #301
MIRAMAR, FL. 33027 P:

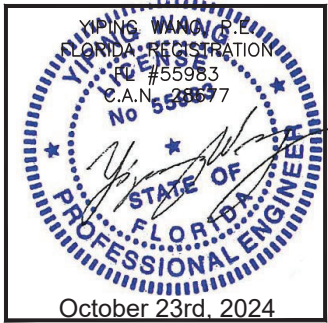
2.

www.MCSEngineering.com

www.MCYEngineering.com mcy@mcyengineering.com



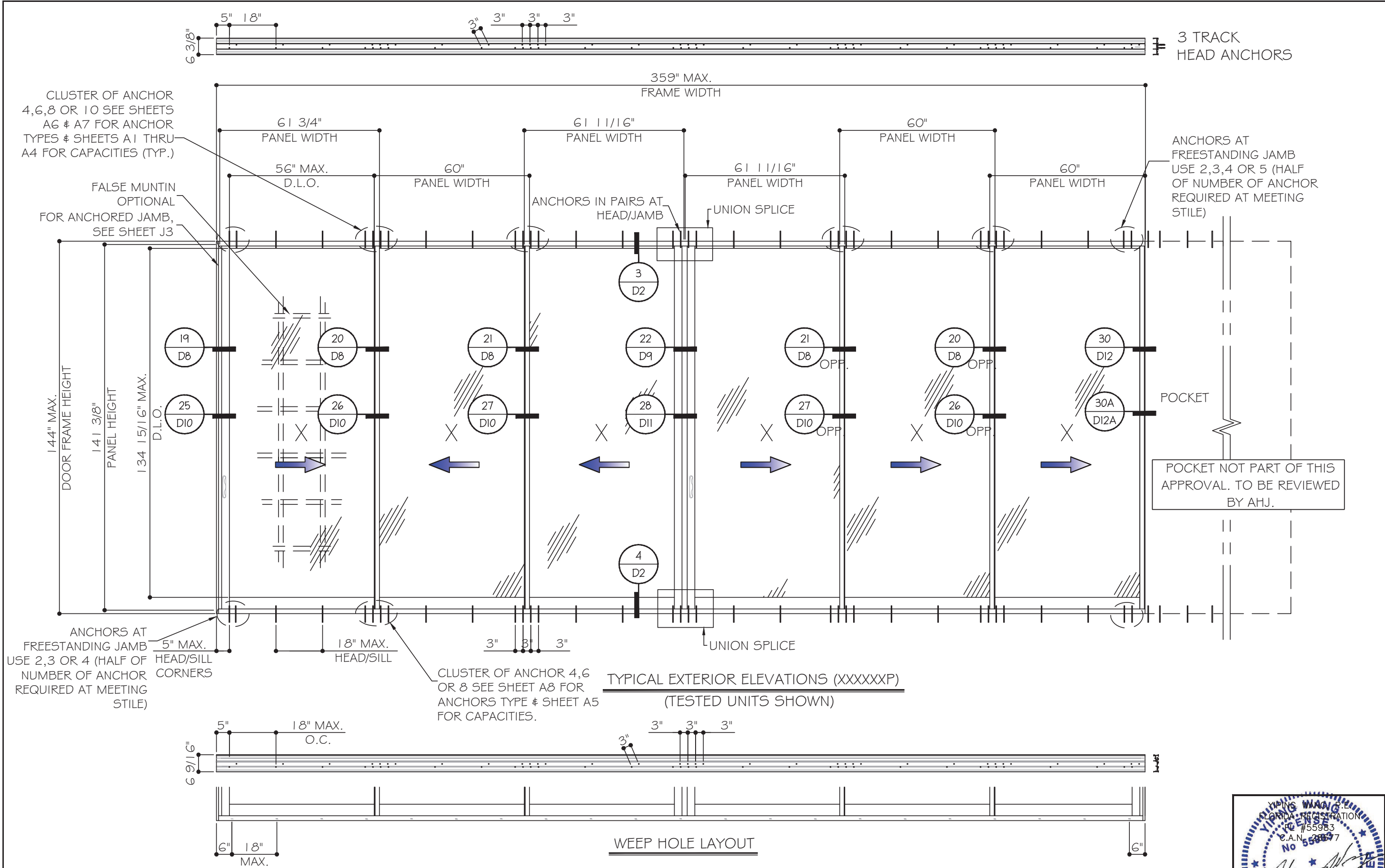
NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
PANEL HEIGHT = FRAME HEIGHT - 2.625"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"



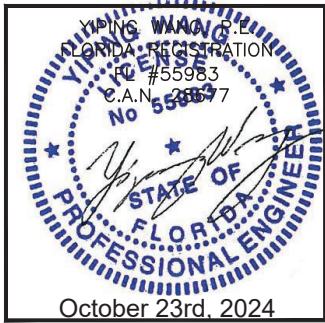
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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)	
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AD16-29	
E1	
Sheet No.	
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NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
PANEL HEIGHT = FRAME HEIGHT - 2.625"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
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Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	

Drawn Date

10.08.2024

Scale

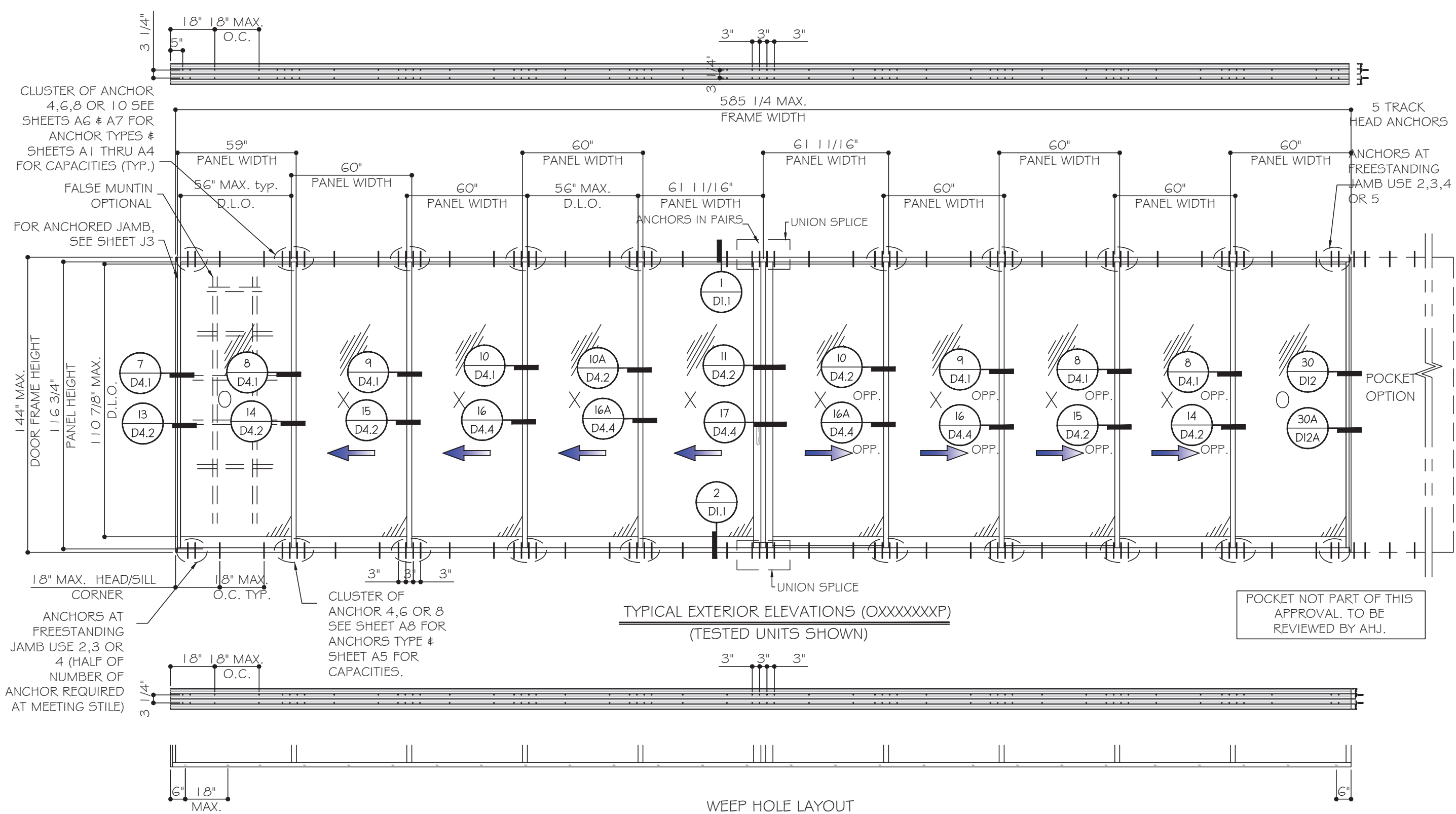
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Sheet No.

E2

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CLUSTER OF ANCHOR 4,6,8 OR 10 SEE SHEETS A6 & A7 FOR ANCHOR TYPES & SHEETS A1 THRU A4 FOR CAPACITIES (TYP.)
FALSE MUNTIN OPTIONAL
FOR ANCHORED JAMB, SEE SHEET J3

18" MAX. HEAD/SILL CORNER
ANCHORS AT FREESTANDING JAMB USE 2,3 OR 4 (HALF OF NUMBER OF ANCHOR REQUIRED AT MEETING STILE)

CLUSTER OF ANCHOR 4,6 OR 8 SEE SHEET A8 FOR ANCHORS TYPE & SHEET A5 FOR CAPACITIES.

TYPICAL EXTERIOR ELEVATIONS (OXXXXXXXP)
(TESTED UNITS SHOWN)

POCKET NOT PART OF THIS APPROVAL. TO BE REVIEWED BY AHJ.

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 K1



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1	10.08.2024	James	

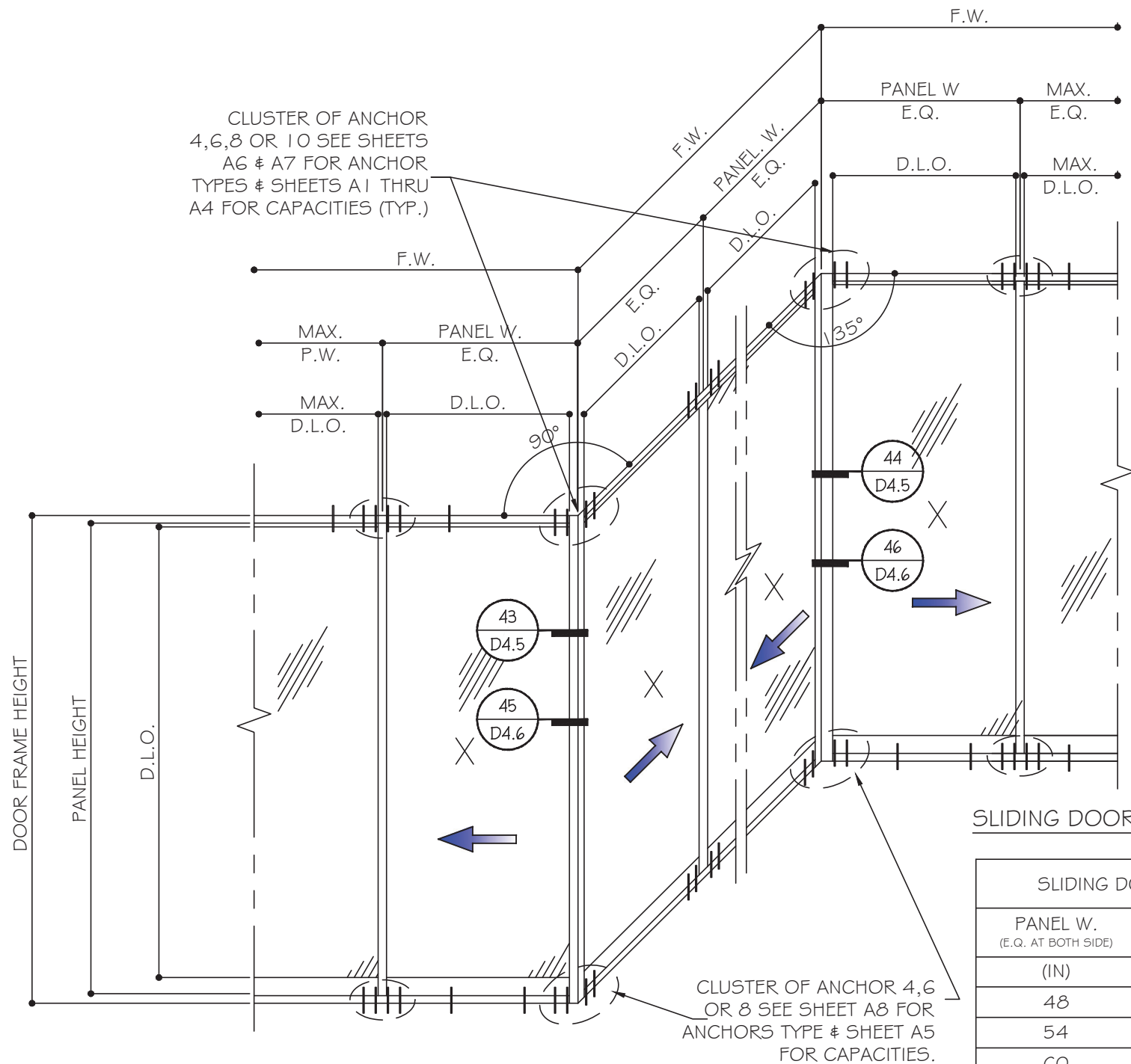
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10.08.2024

Scale

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AD16-29

E4

Sheet No.
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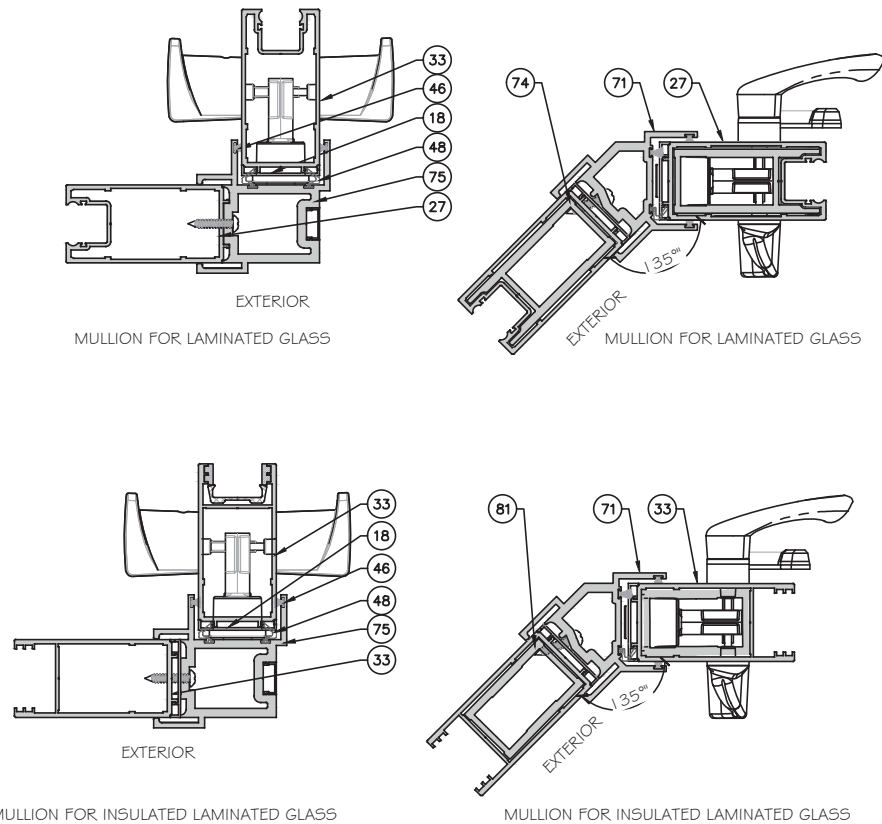
CORNER MULLIONS

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

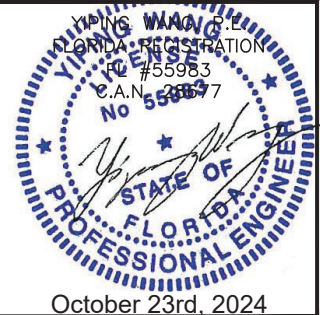
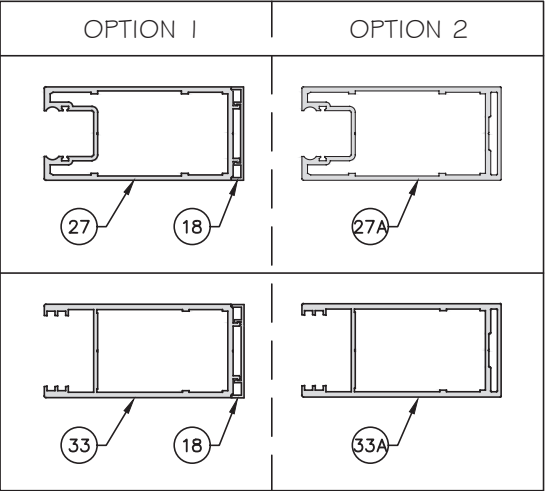
SLIDING DOOR WITH 90° & 135° TURN

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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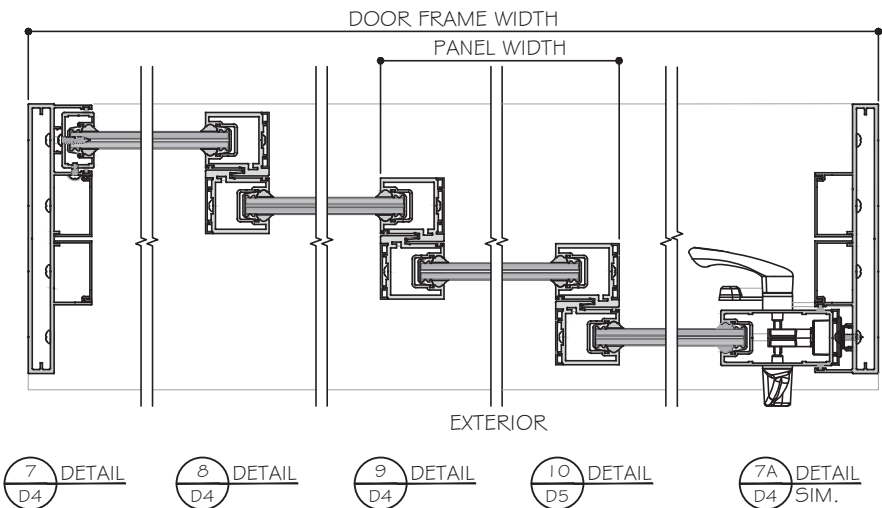
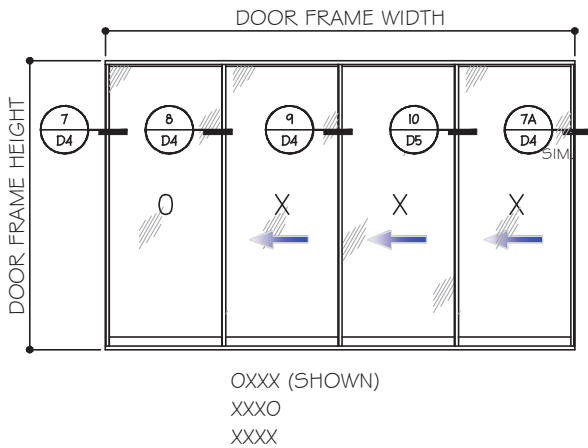
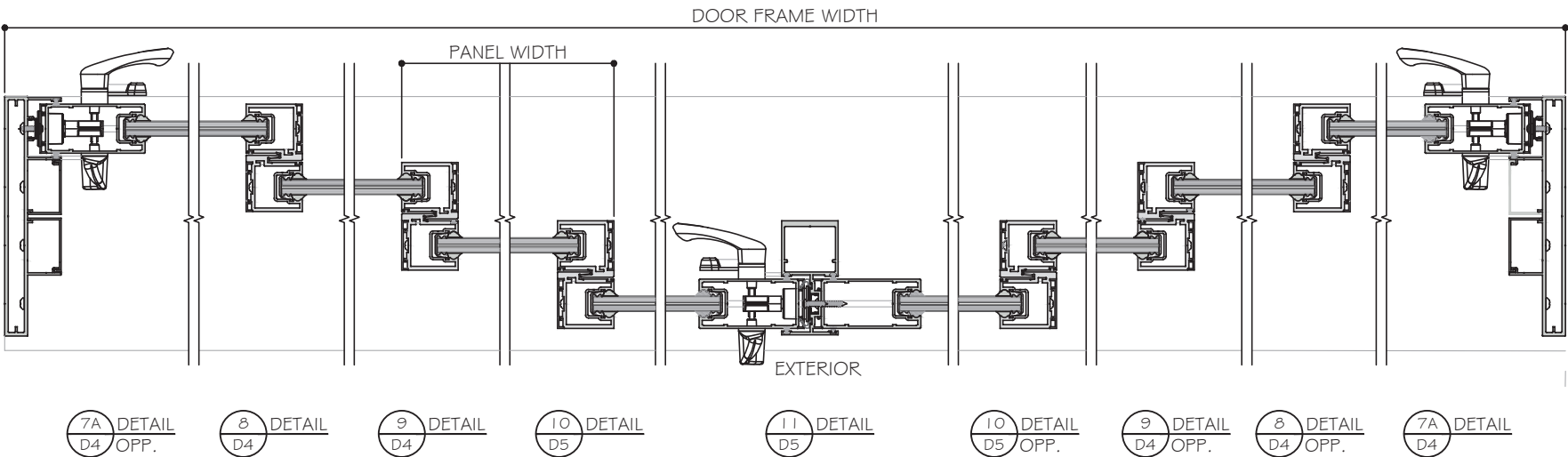
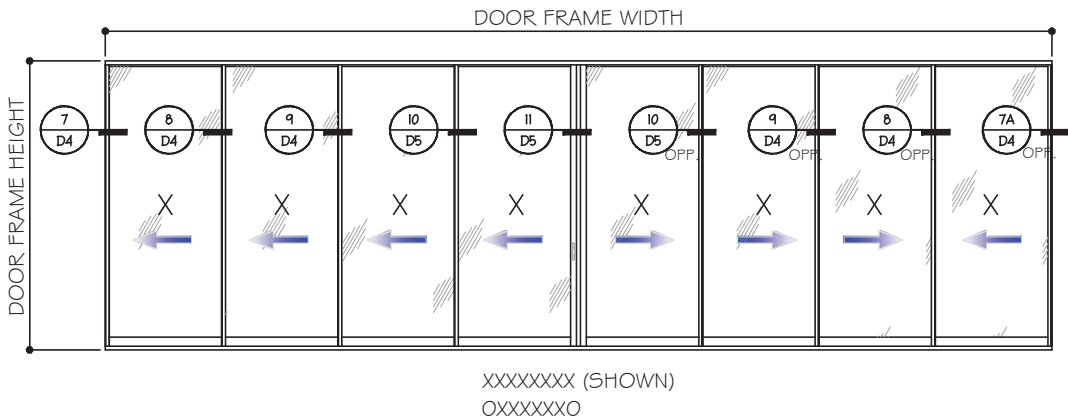
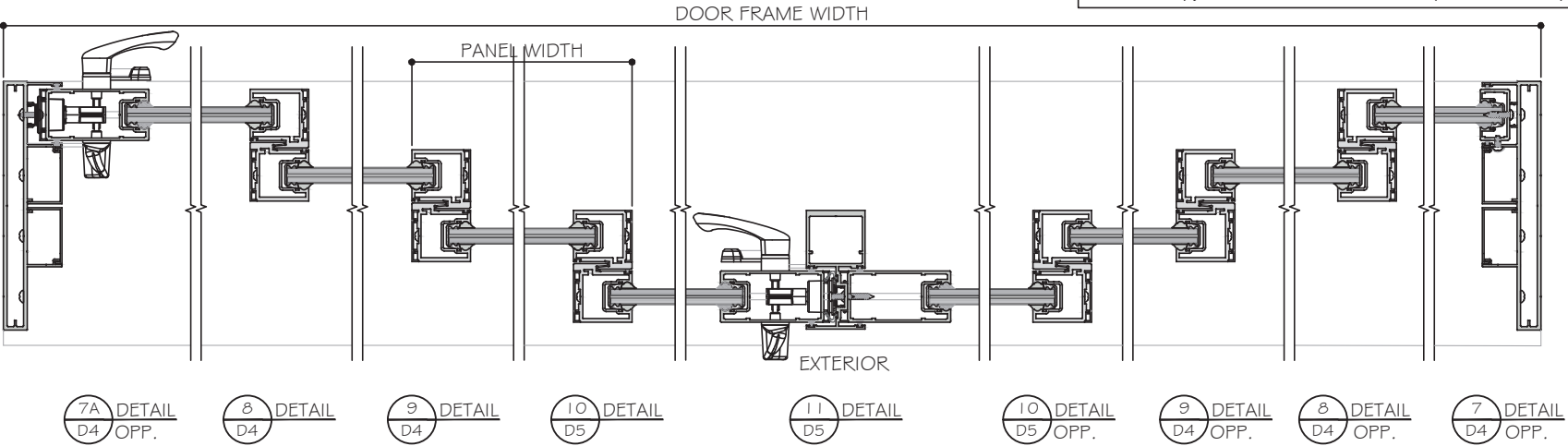
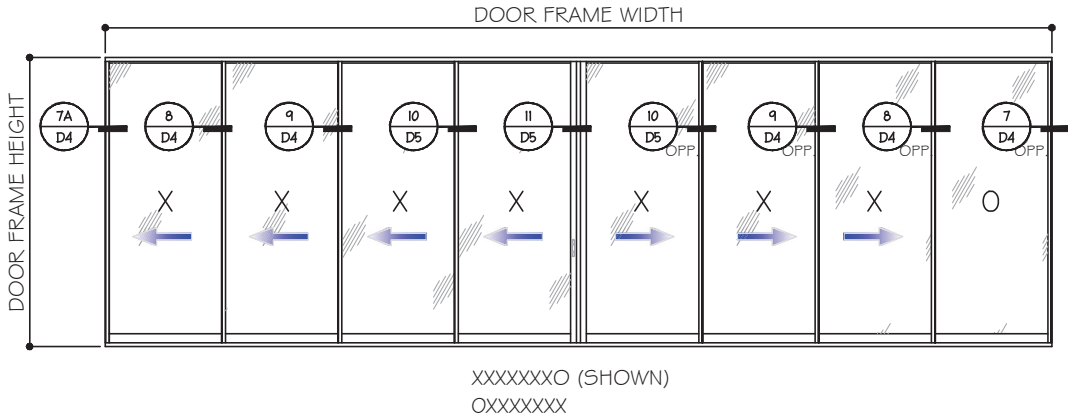
Drawn Date: 10.08.2024

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Sheet No. 06 OF 59

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

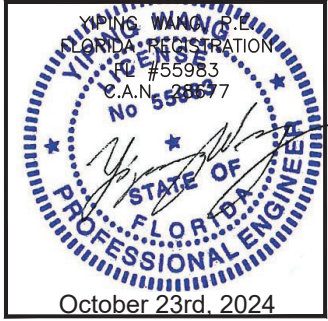


LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

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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Drawn Date

10.08.2024

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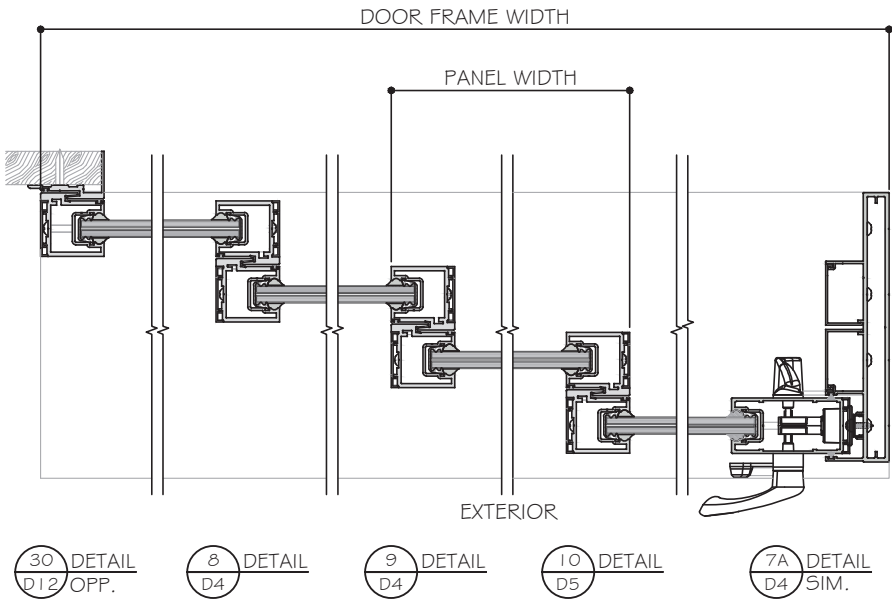
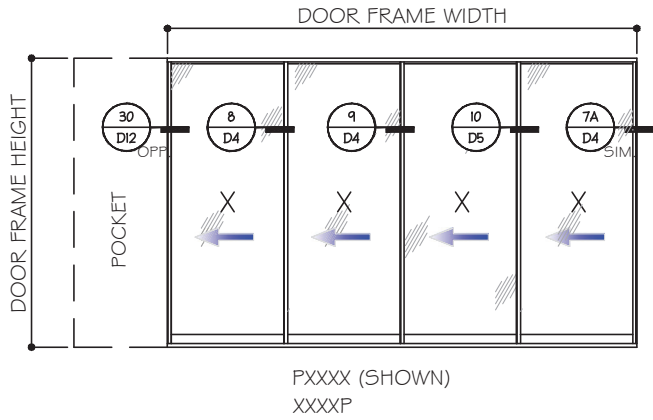
AD16-29

Sheet No.

E6

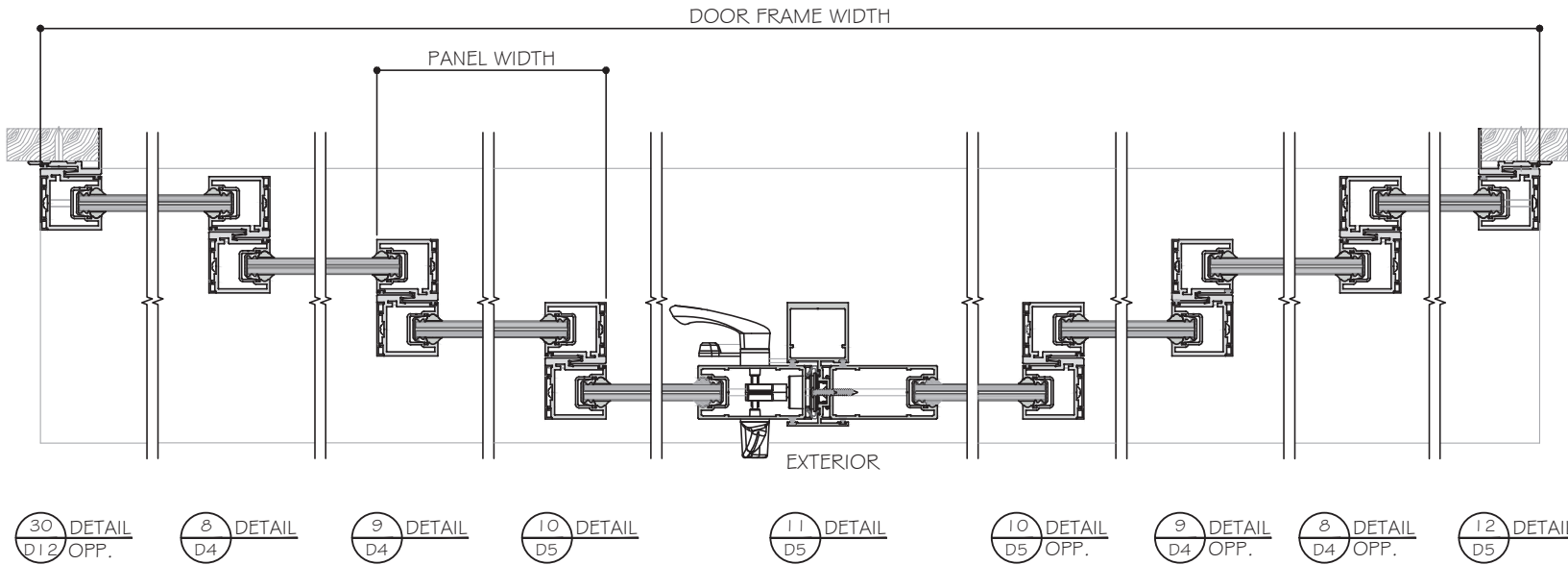
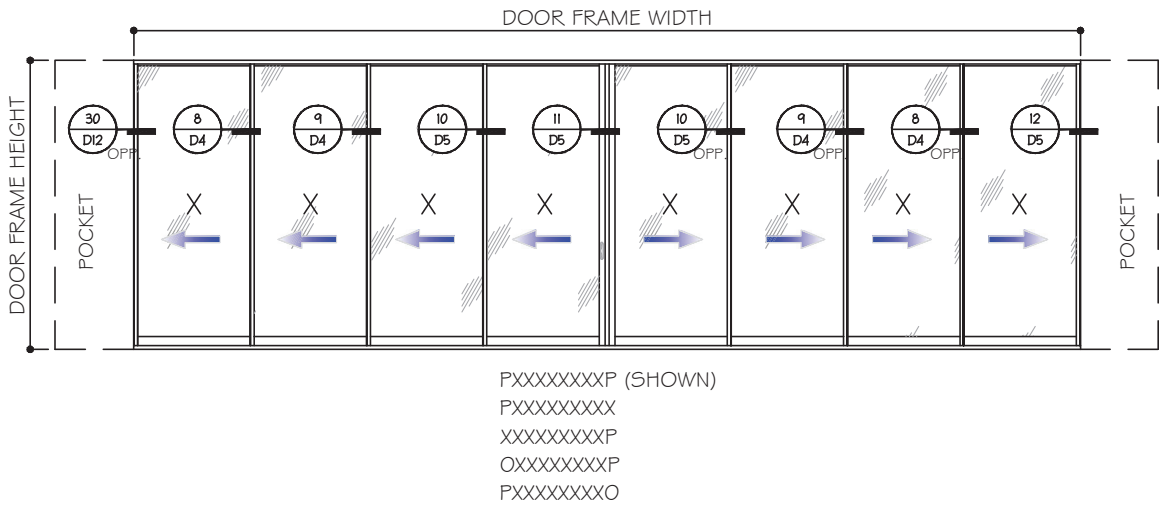
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APPROVED CONFIGURATION POCKETED DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



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

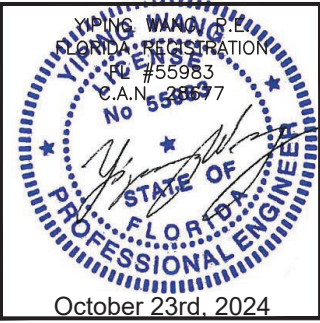
NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).



- 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

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



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Drawn Date

10.08.2024

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DRAWING NO.

AD16-29

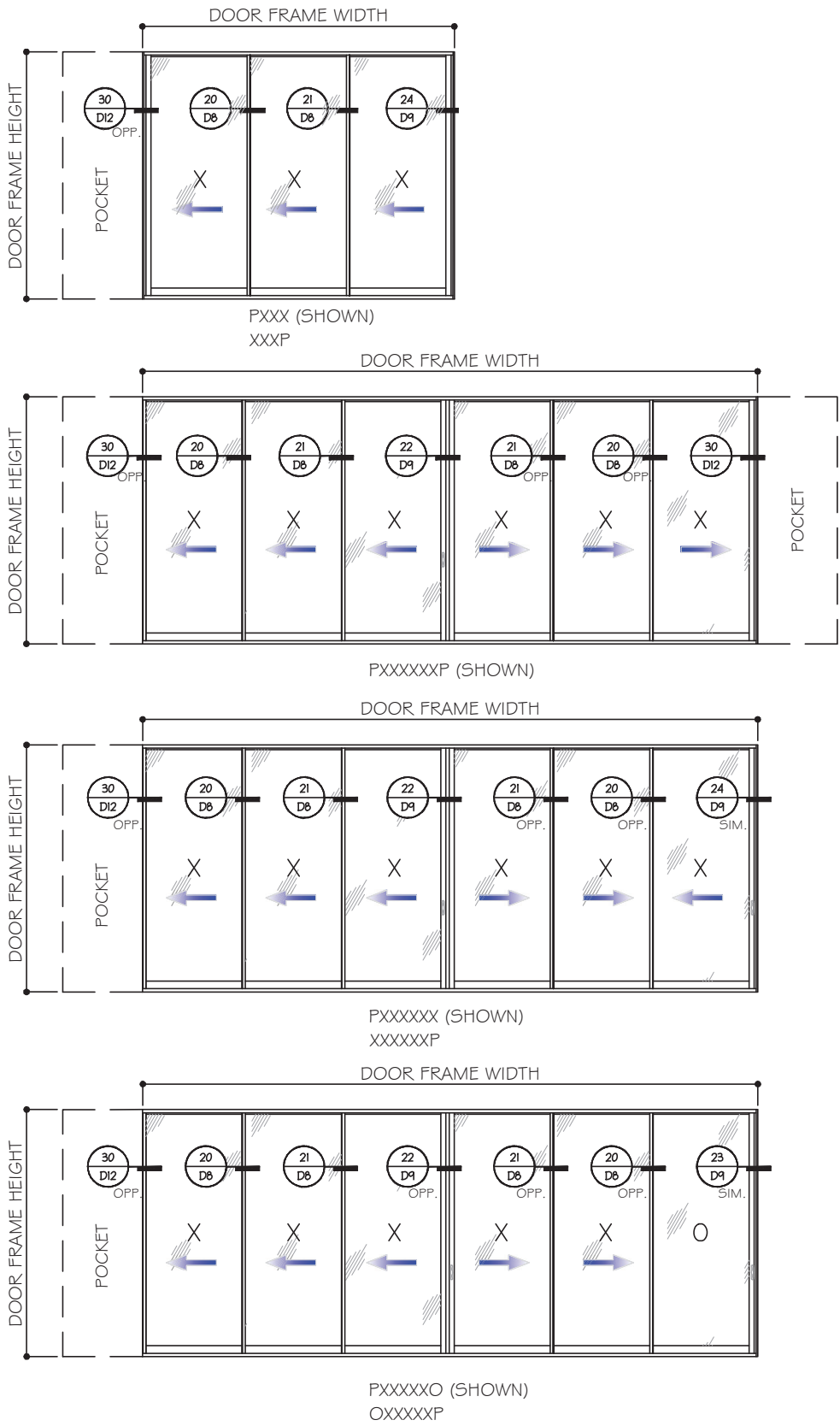
Sheet No.

08 OF 59

APPROVED CONFIGURATION POCKETED DOORS

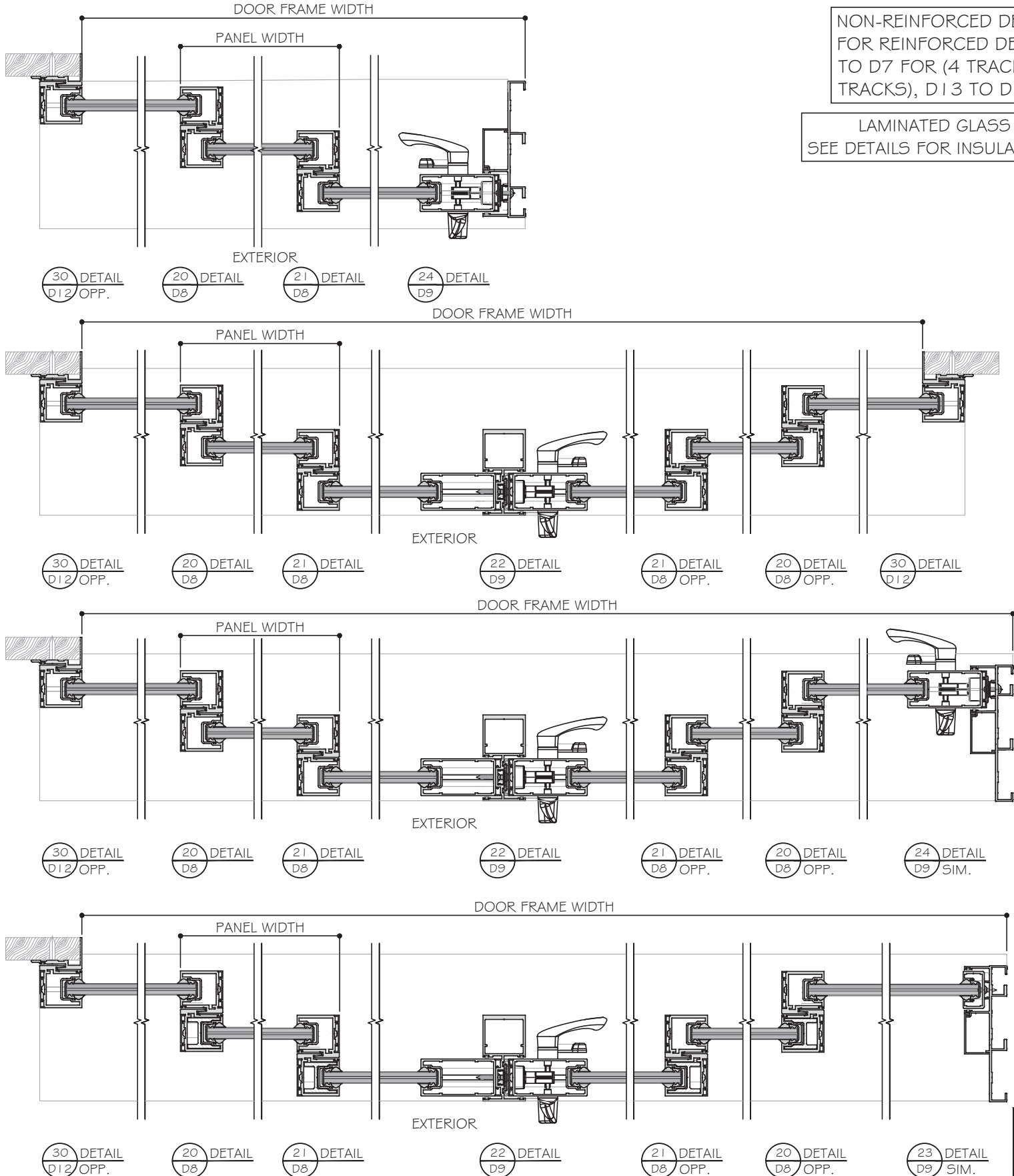
(NON-REINFORCED SHOWN)

SEE SHEET K1 FOR Dp AND REINFORCING OPTIONS



THREE (3) TRACKS

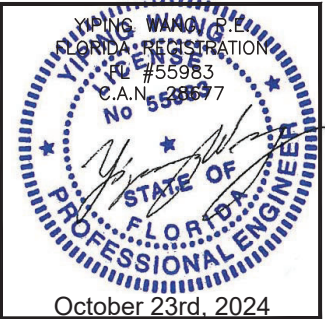
POCKETS ARE NOT PART OF THIS APPROVAL
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NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).

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



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Rev.	Date	Drawn By	Description
1	10.08.2024	James	REVISION

Drawn Date

10.08.2024

Scale

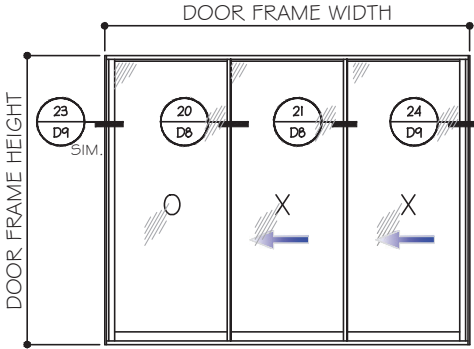
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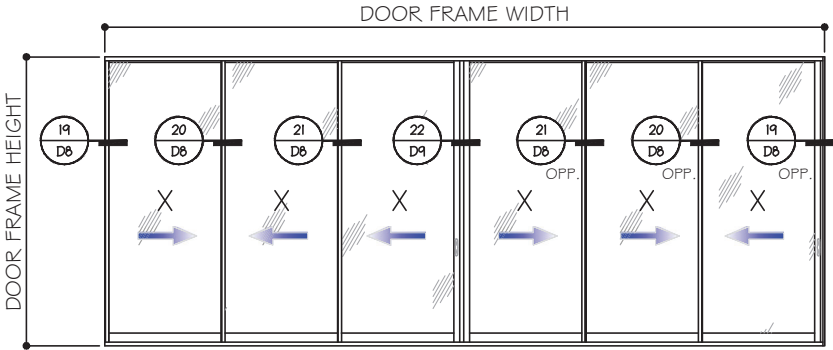
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09 OF 59

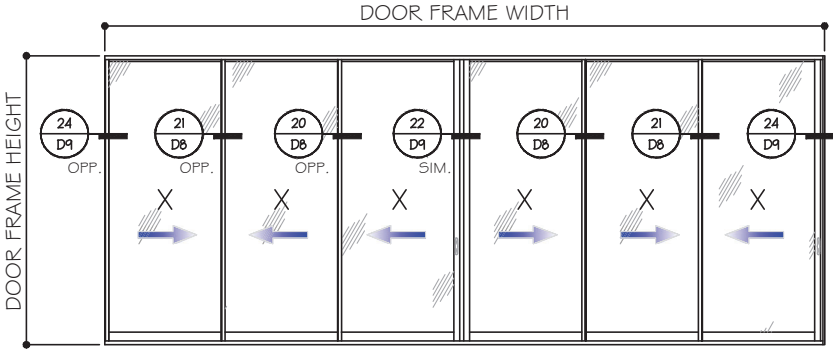
APPROVED CONFIGURATION DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



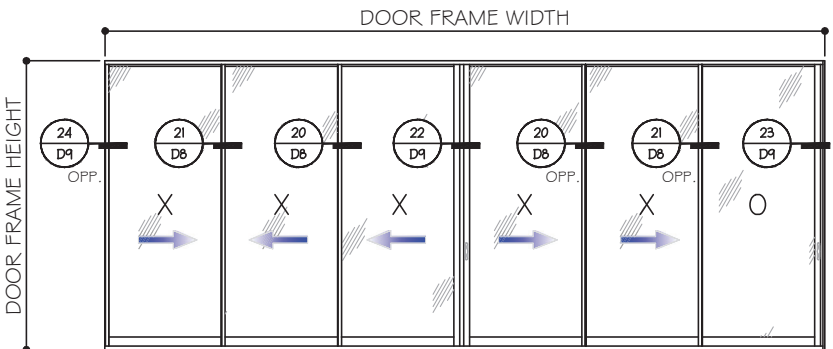
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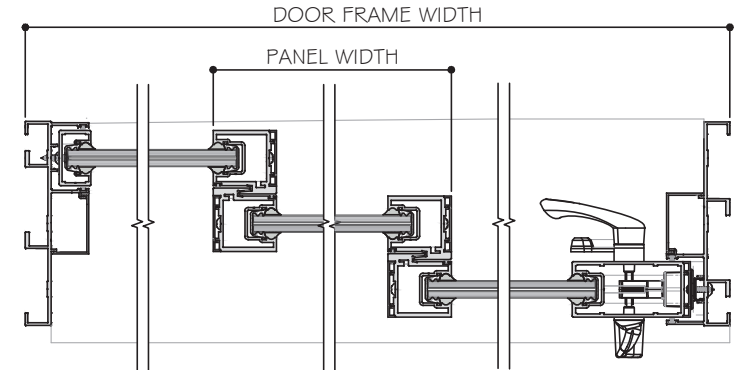
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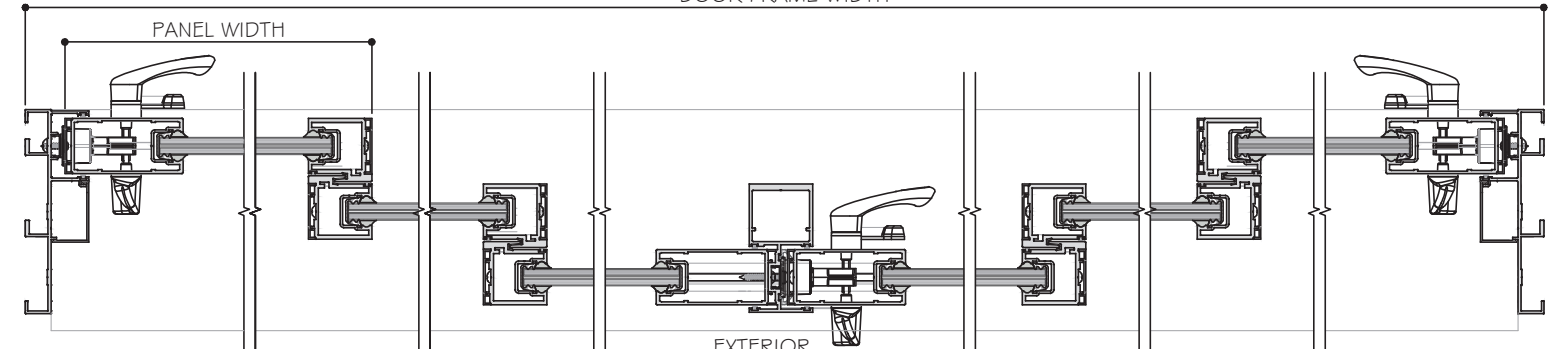
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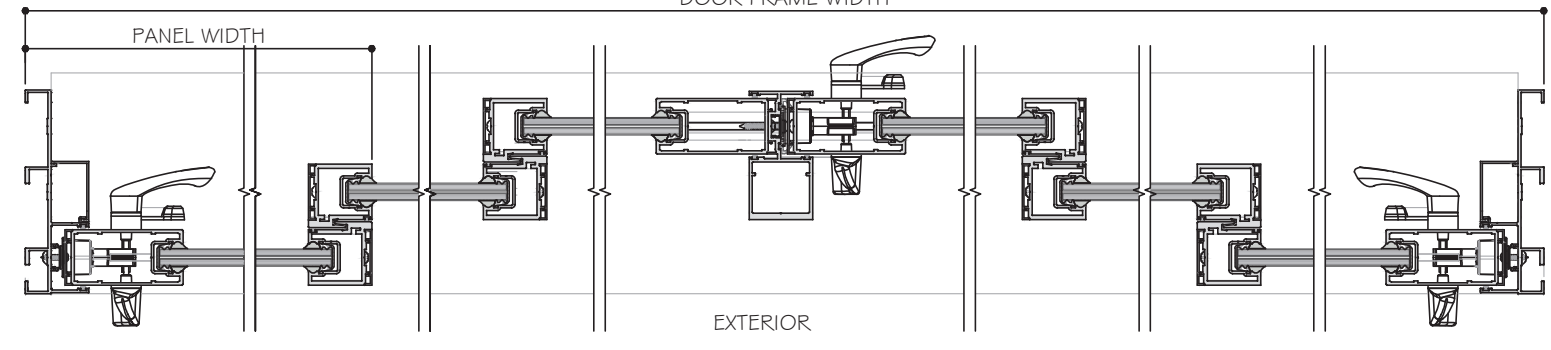
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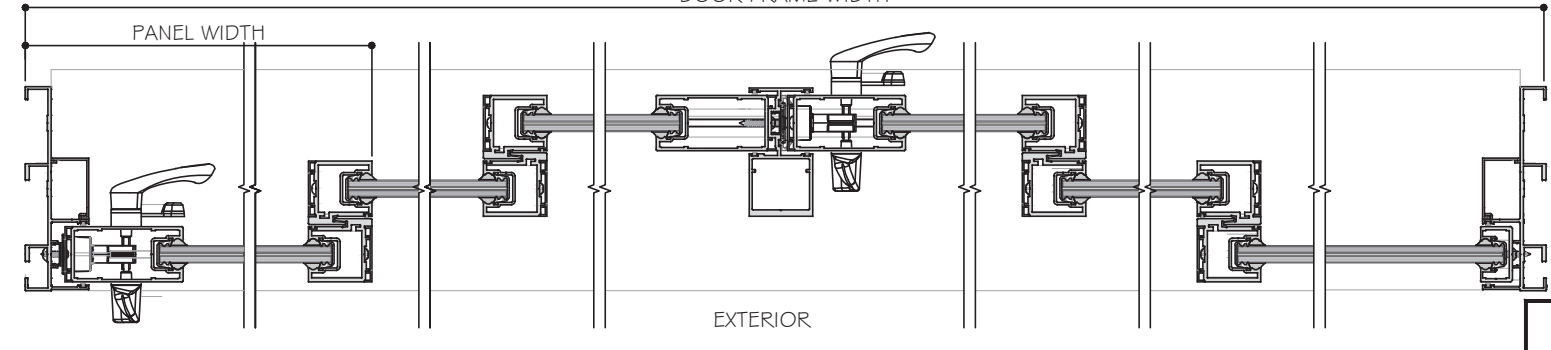
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24 DETAIL D9 OPP. 21 DETAIL D8 OPP. 20 DETAIL D8 OPP. 22 DETAIL D9 SIM. 20 DETAIL D8 21 DETAIL D8 24 DETAIL D9



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

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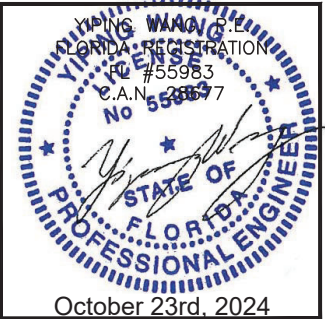
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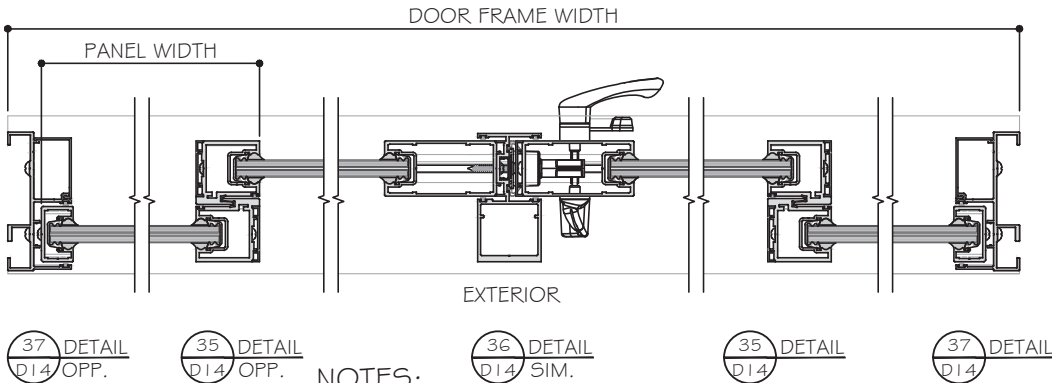
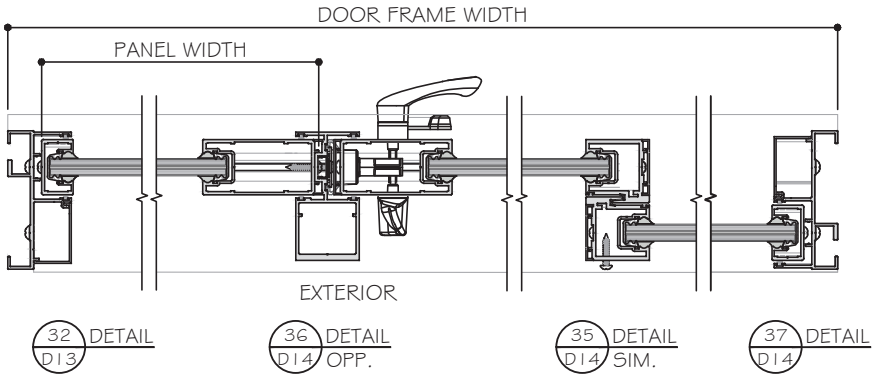
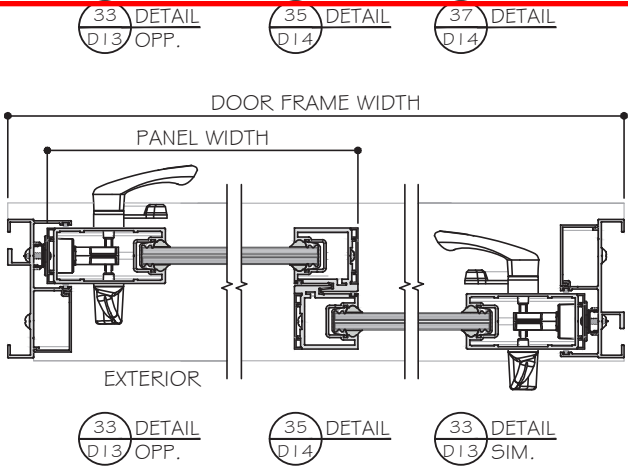
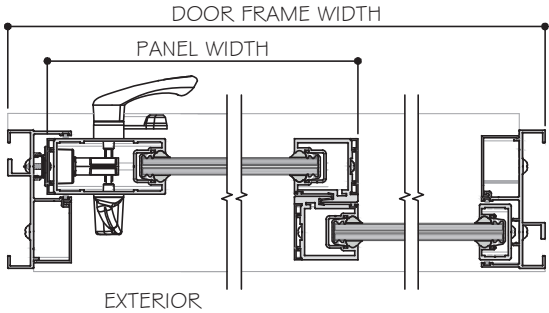
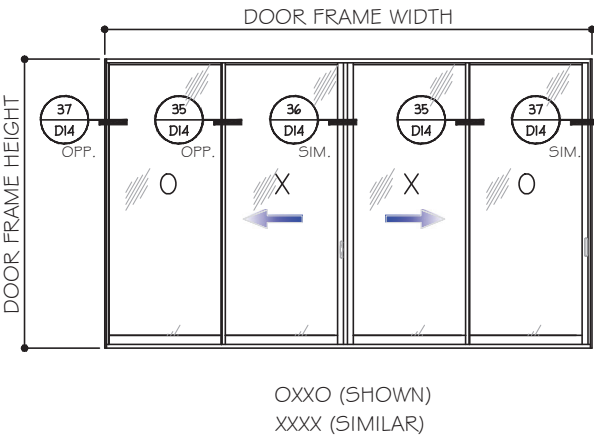
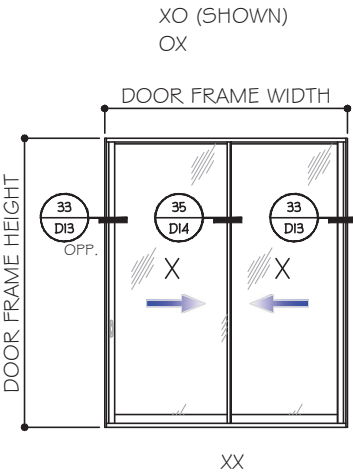
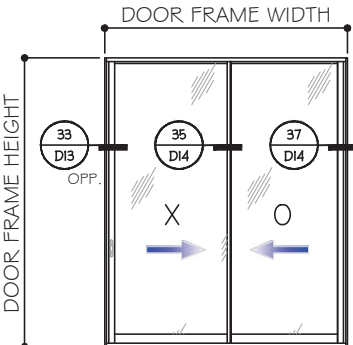
THREE (3) TRACKS

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



NOTES:

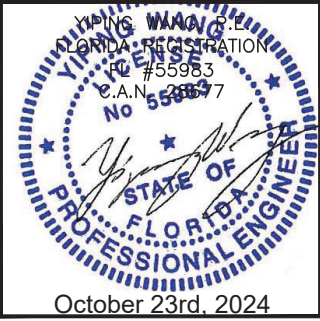
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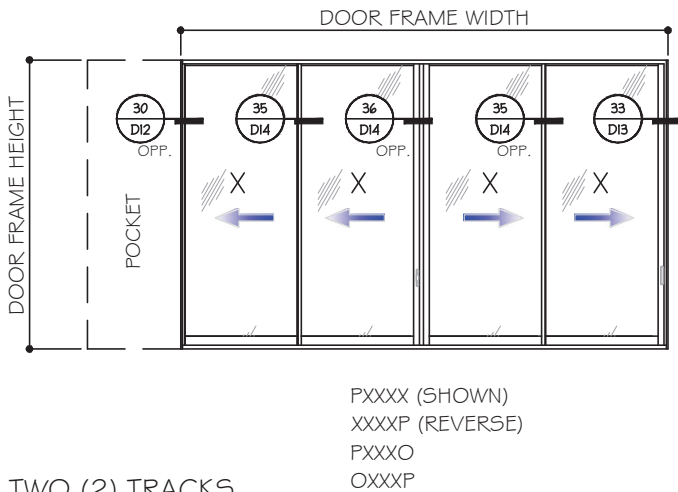
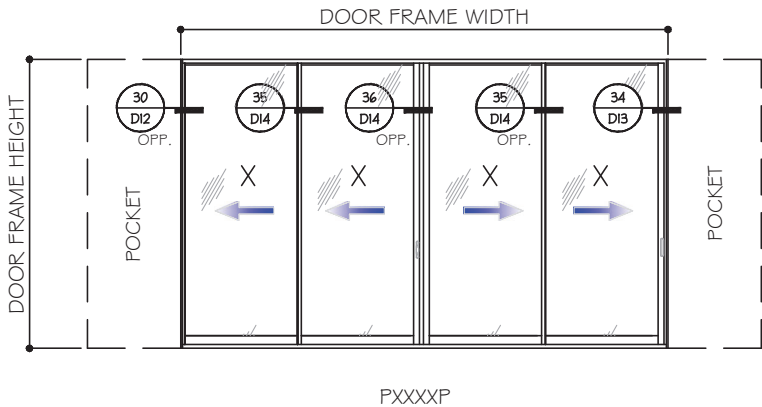
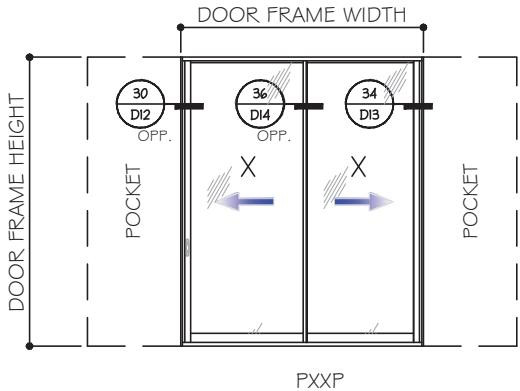
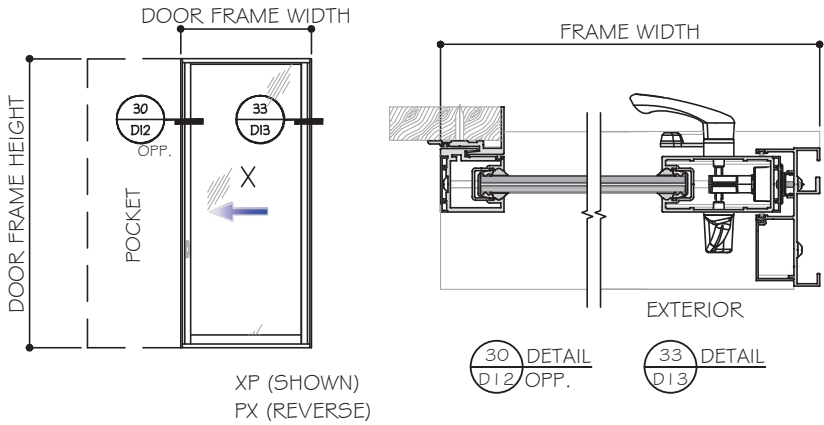
ES-WINDOWS, INC.
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APPROVED CONFIGURATION POCKETED DOORS

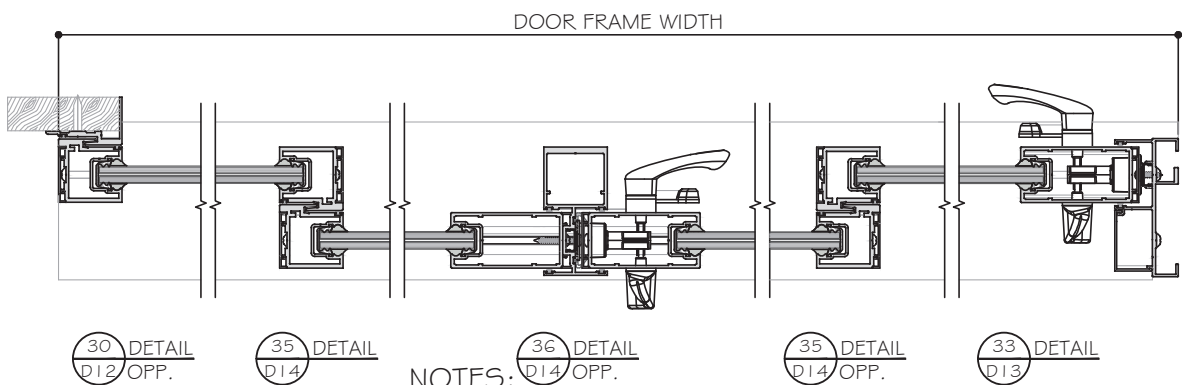
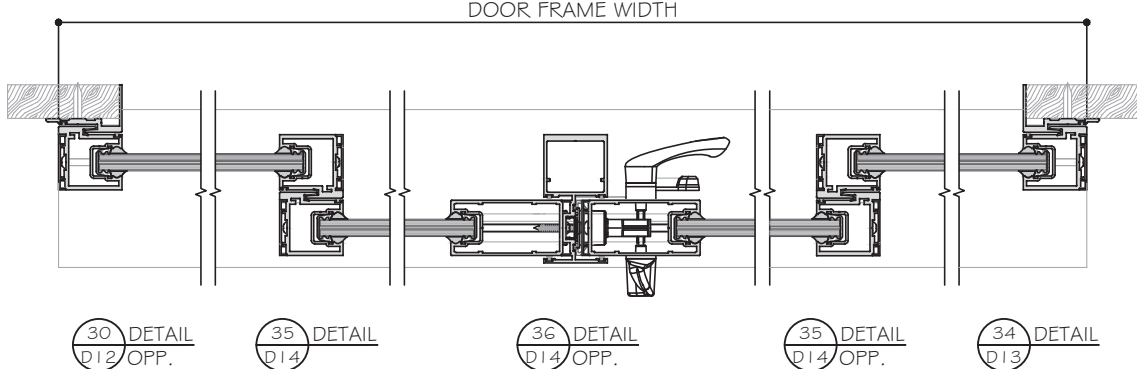
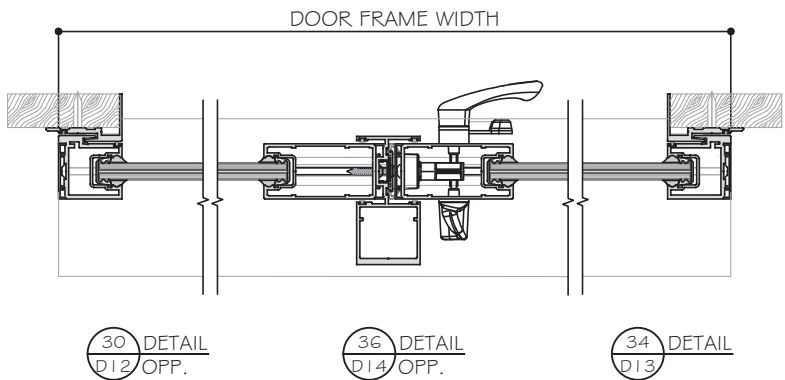
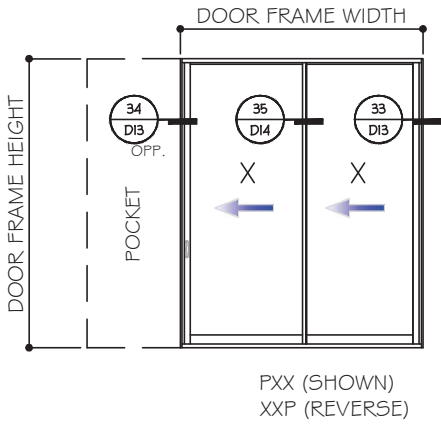
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TWO (2) TRACKS

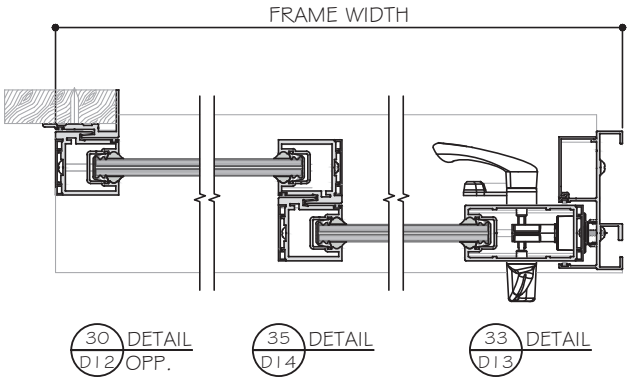
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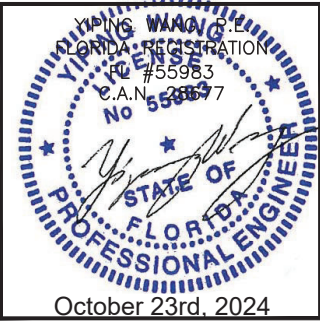
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SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



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.

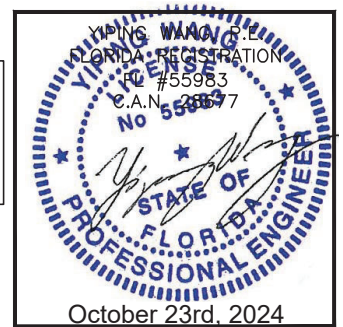
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.

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

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



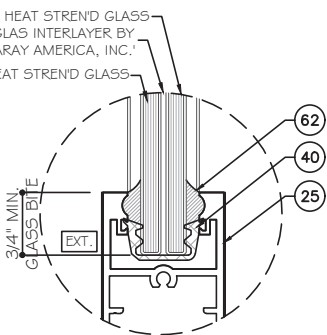
NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).



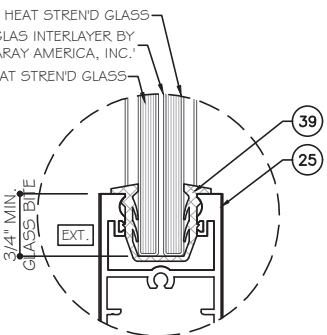
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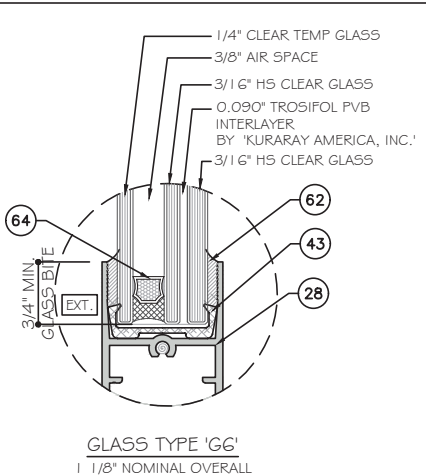
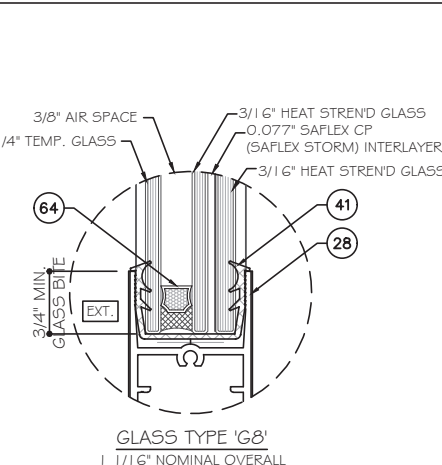
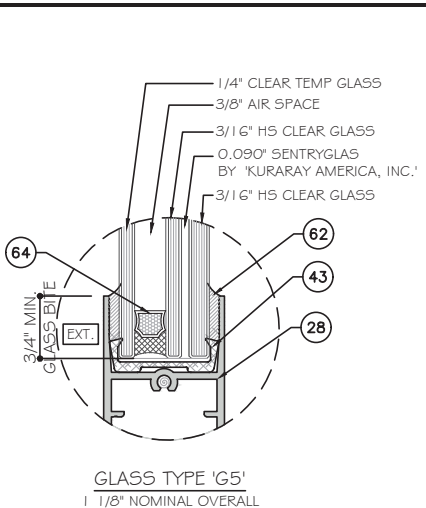
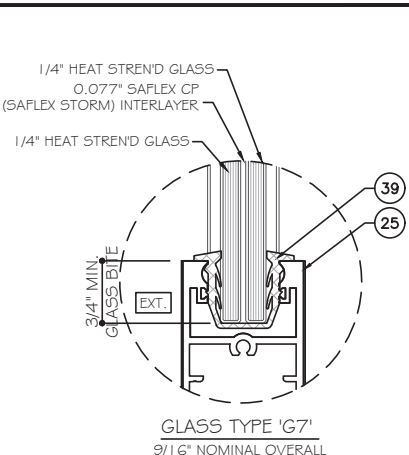
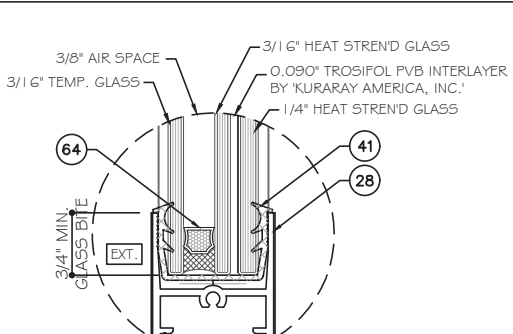
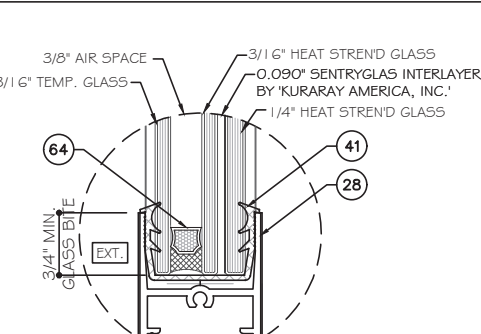
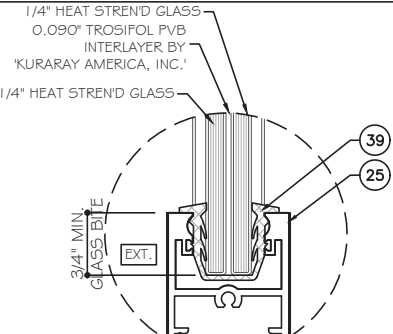
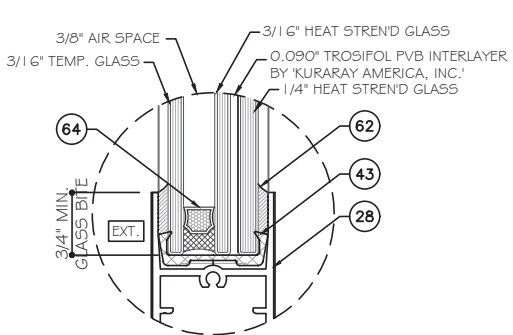
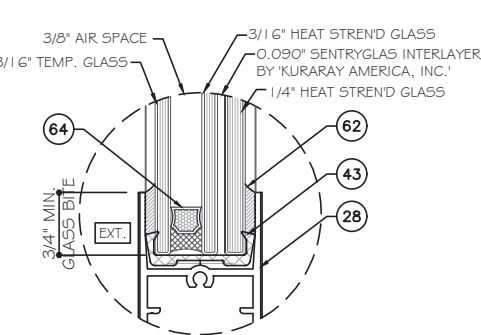
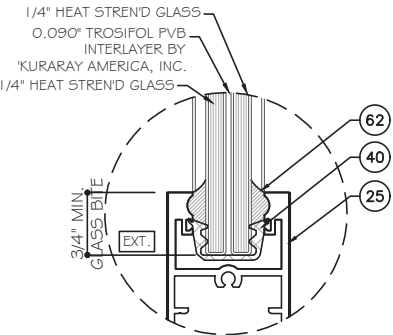
WET GLAZED



DRY GLAZED

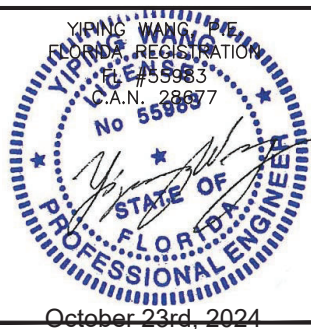


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NOTE:
GLASS COMPLIES WITH ASTM E 1300-09
(3 SEC. GUSTS).

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



ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

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

MCY ENGINEERING, INC.
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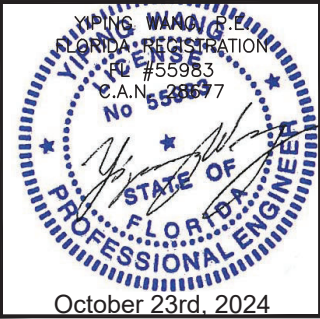
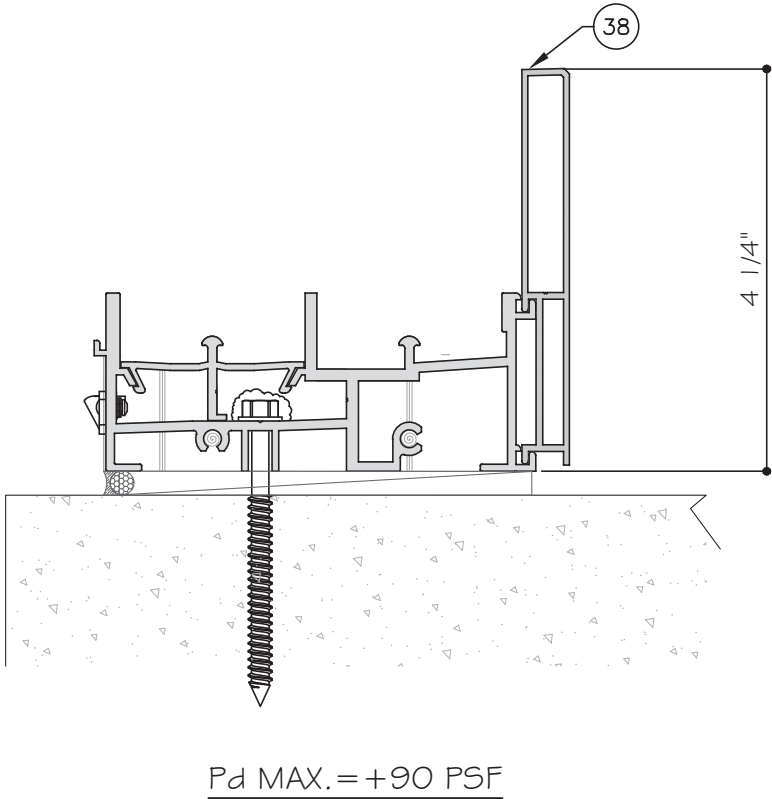
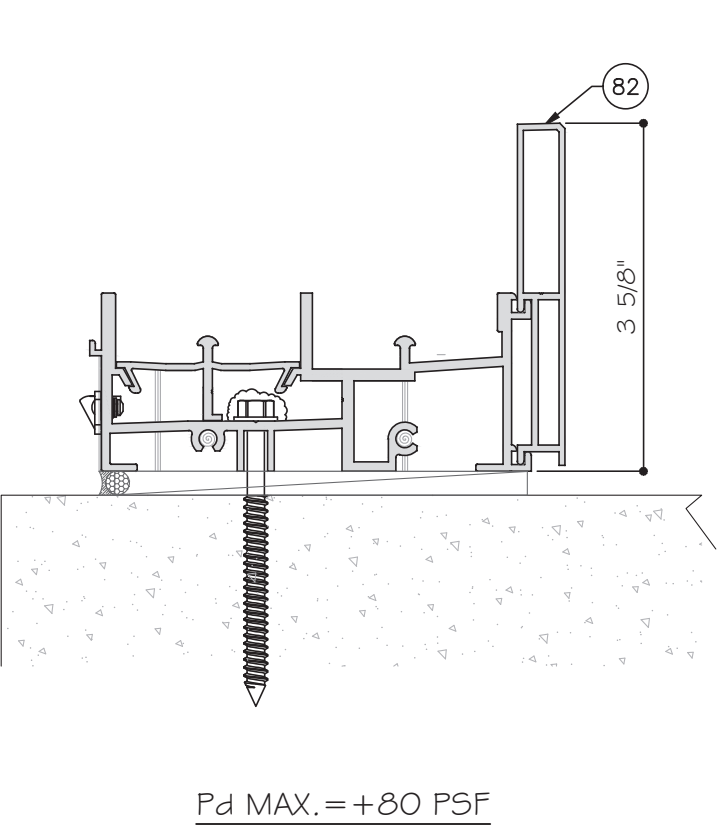
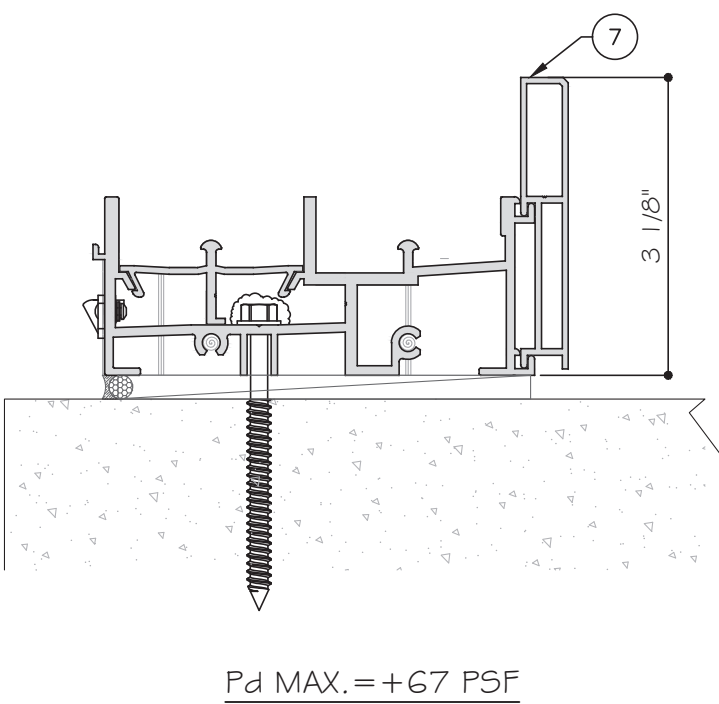
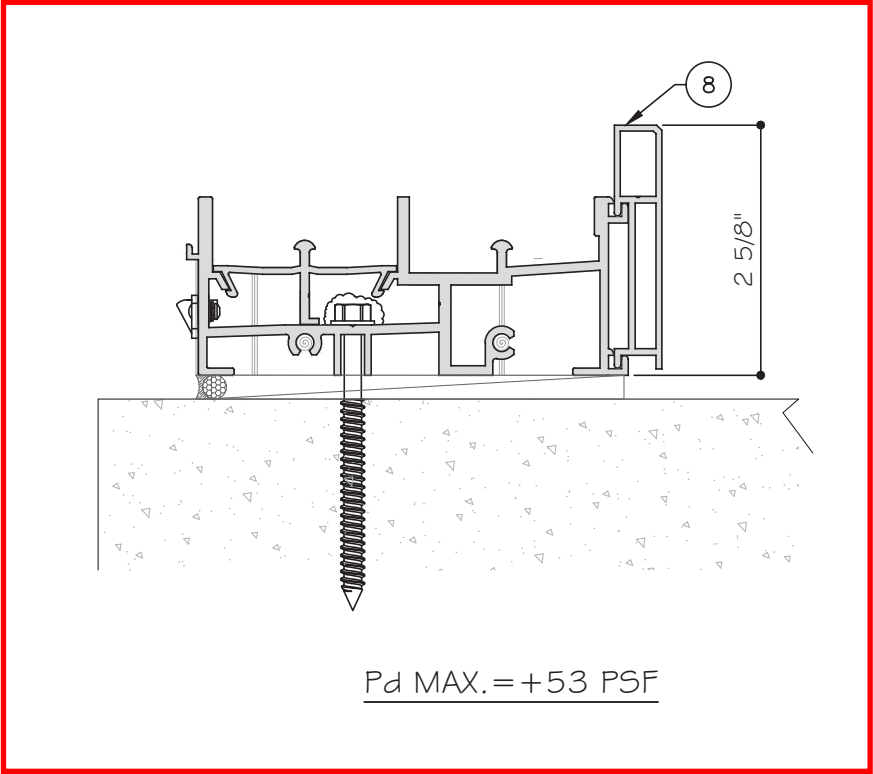
105	48	108	+85/-100	65.0 / 78.0	90.0 / 150.0
	54	108	+85/-100	65.0 / 78.0	90.0 / 102.0
107, 108	60	108	+85/-100	65.0 / 78.0	90.0 / 102.0
	66	108	+85/-100	65.0 / 78.0	90.0 / 102.0
	72	108	-	65.0 / 78.0	90.0 / 102.0
	36	114	+85/-100	65.0 / 78.0	90.0 / 150.0
	42	114	+85/-100	65.0 / 78.0	90.0 / 150.0
	48	114	+85/-100	65.0 / 78.0	90.0 / 150.0
	54	114	+85/-100	65.0 / 78.0	90.0 / 102.0
	60	114	+85/-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/-100	65.0 / 78.0	90.0 / 150.0
	42	120	+85/-100	65.0 / 78.0	90.0 / 150.0
	48	120	+85/-100	65.0 / 78.0	90.0 / 150.0
	54	120	+85/-100	65.0 / 78.0	90.0 / 102.0
	101	60	120	+85/-100	65.0 / 78.0
102	66	120	-	65.0 / 78.0	90.0 / 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 1	OPTION 2	OPTION 3
LAMINATED GLASS							
INSULATED-LAMINATED GLASS							

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

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

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



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10653 NE Quaybridge Ct.

Miami, FL 33138

TEL. (305) 624-7775

Rev. No.	Date	Drawn By	Description
K2	10.08.2024	James	

Drawn Date

10.08.2024

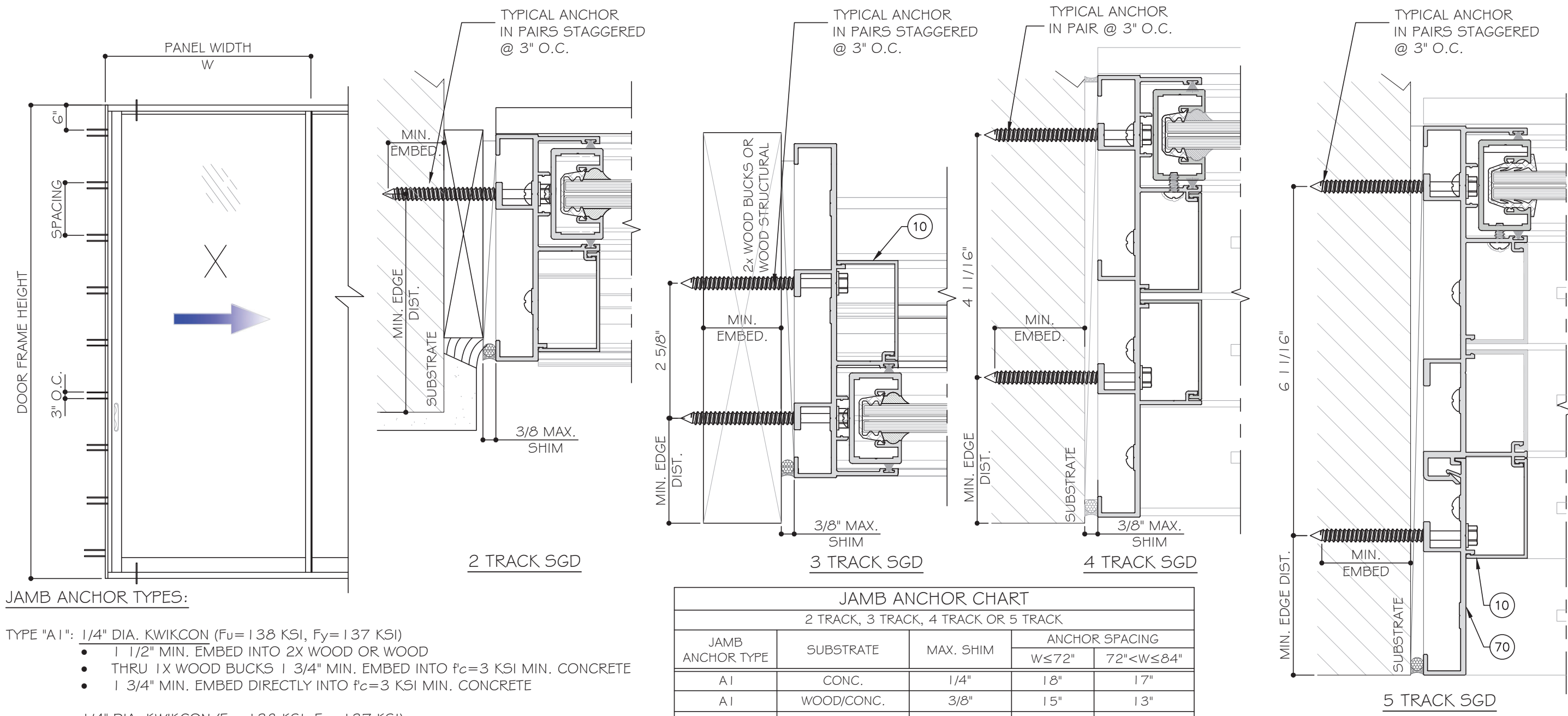
Scale

DRAWING NO.

AD16-29

Sheet No.

16 OF 59



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

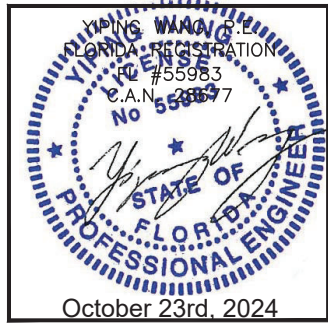
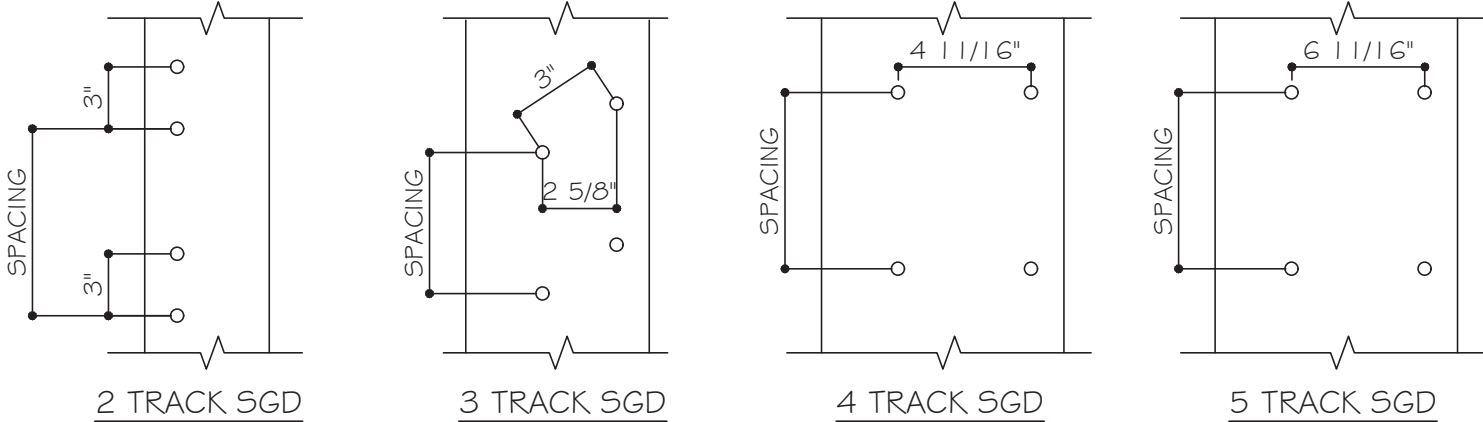
- TYPE "D1": 5/16" TEKS/DRIL-FLEX SCREW ($F_u = 120$ KSI, $F_y = 92$ KSI) INTO METAL STRUCTURE

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.

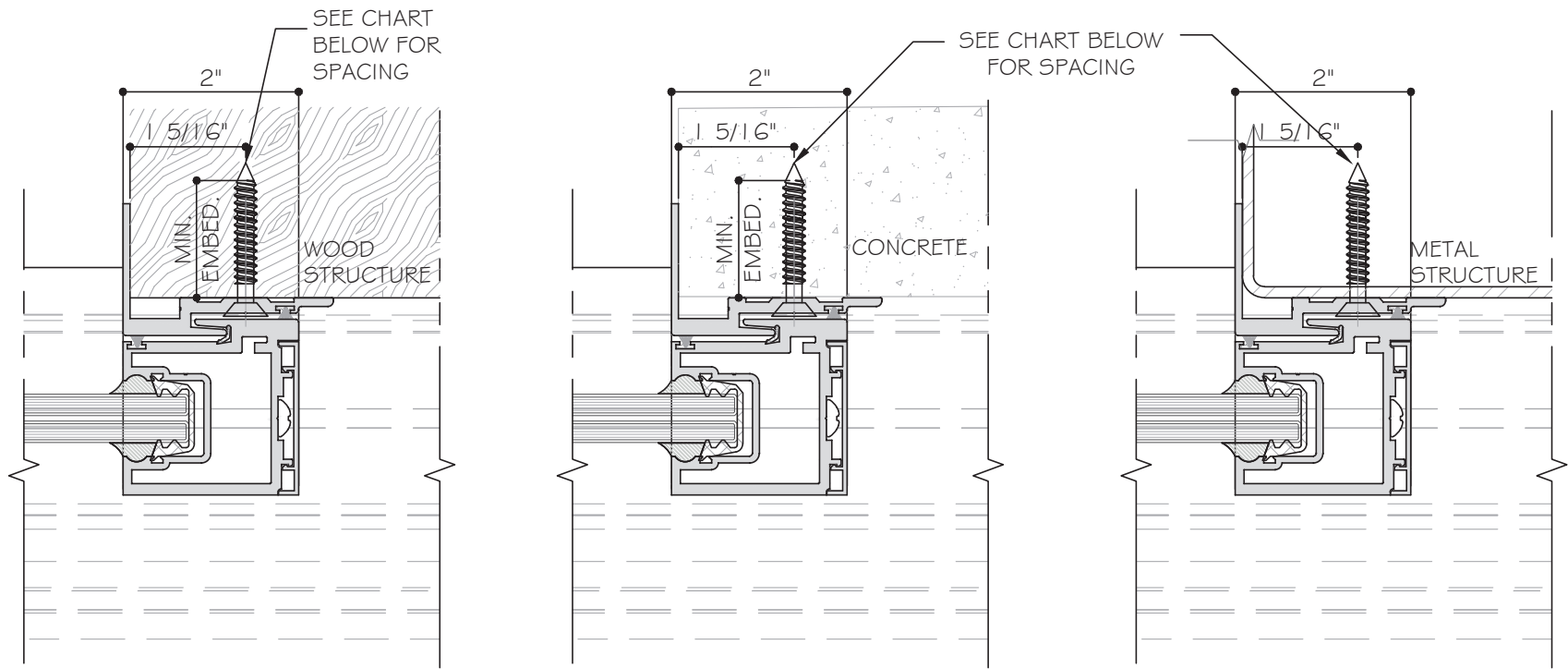
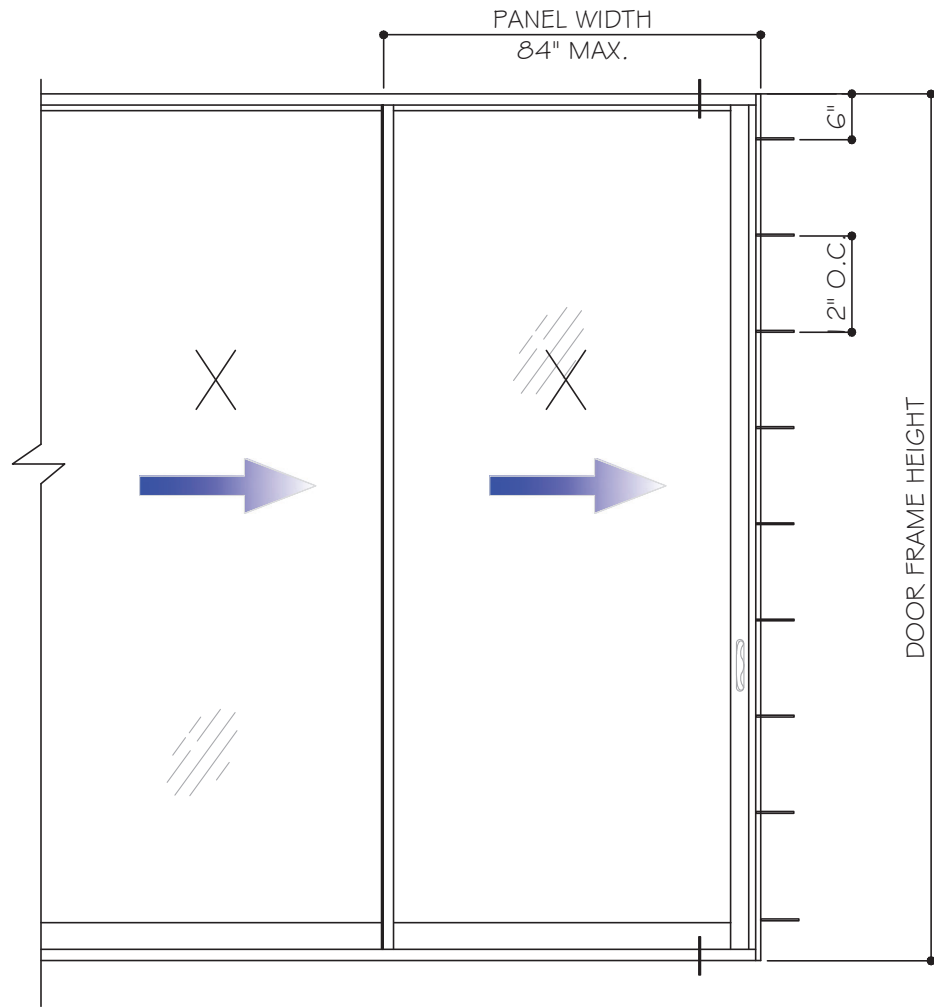


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MIRAMAR, FL 33027
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www.MCYEngineering.com mcy@mcyengineering.com

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.	19 OF 59		

Rev. No.	1	Date	10.08.2024	Drawn By	James	Description	
Rev. No.	2	Date		Drawn By			

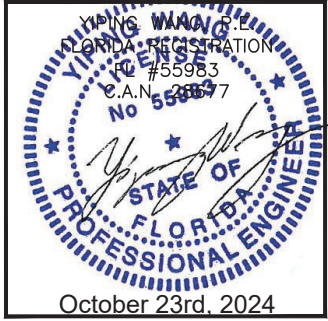
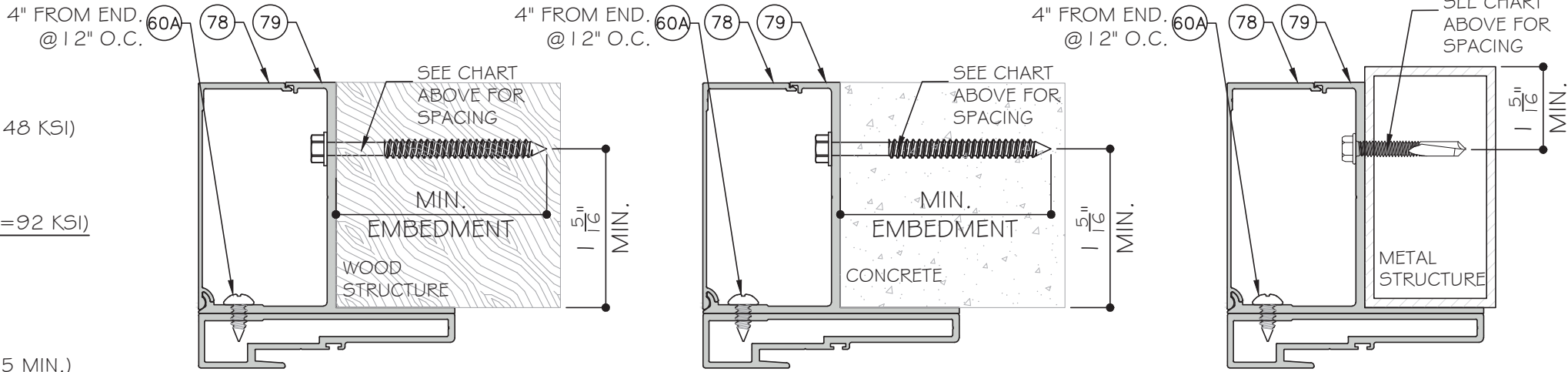


ANCHOR TYPE	EMBEDMENT	SUBSTRATE	ANCHOR SPACING	
			W≤72"	72"<W≤84"
A2 (1/4" ULTRACON)	1 3/4"	CONCRETE	12"	11"
D2(#14 TEKS)	3/16"	ALUM. 6063-T6	16"	14"
D2(#14 SMS)	1/8"	STL	14"	12"
D2A(#14 SMS)	1 1/2"	WOOD SG=0.55	13"	11"

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)

Rev.	Date	By	Description
1	10.08.2024	James	

Drawn Date: 10.08.2024

Scale:

DRAWING NO. AD16-29

J4

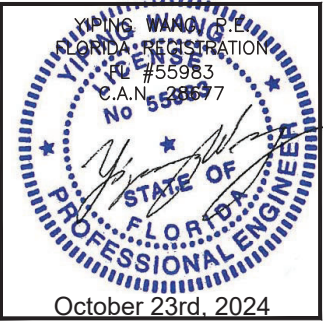
Sheet No. 20 OF 59

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	101
54		92.4	138.7	150.0	150.0	118.5	150.0	102
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		56.0	84.0	112.0	112.0	71.8	107.7	143.6
36	120	85.6	128.5	150.0	150.0	109.8	150.0	150.0
42		75.6	113.5	150.0	150.0	97.0	145.5	150.0
48		68.3	102.4	136.5	150.0	87.5	131.3	150.0
54		62.6	93.9	125.2	150.0	80.3	120.4	150.0
60		58.2	87.4	116.5	145.6	74.7	112.0	149.3
66		54.8	82.2	109.5	136.9	70.2	105.3	140.4
72		52.0	78.0	104.0	130.0	66.7	100.0	133.3
36	126	80.9	121.3	150.0	150.0	103.7	150.0	150.0
42		71.3	107.0	142.6	150.0	91.4	137.1	150.0
48		64.2	96.4	128.5	150.0	82.4	123.5	150.0
54		58.8	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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10.08.2024

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AD16-29

A1

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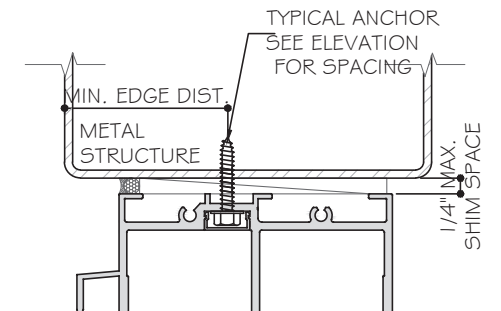
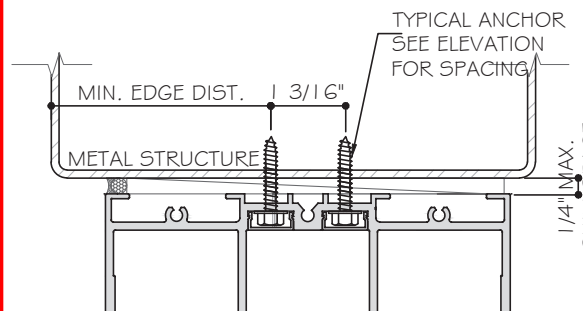
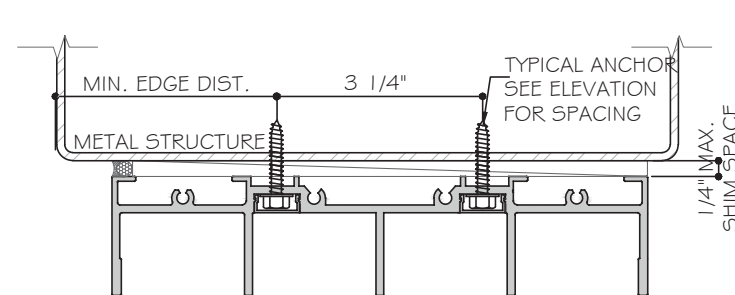
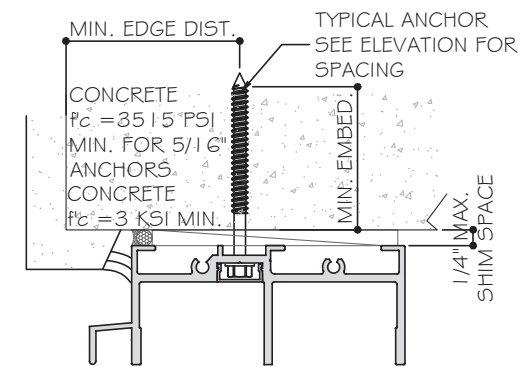
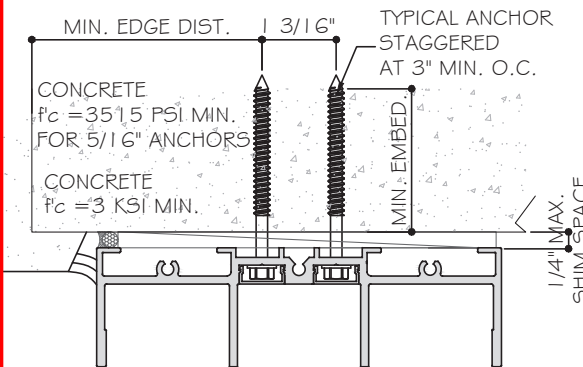
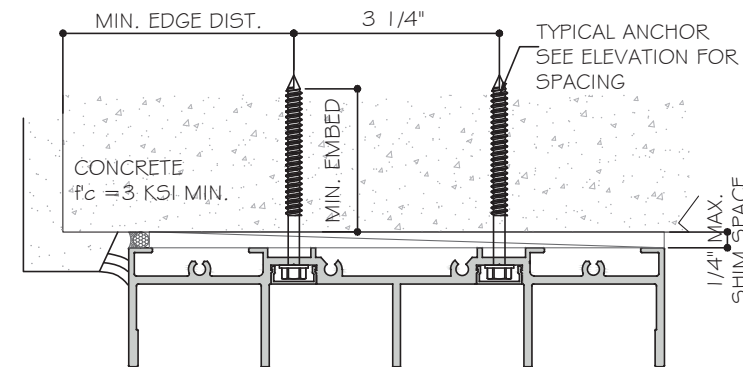
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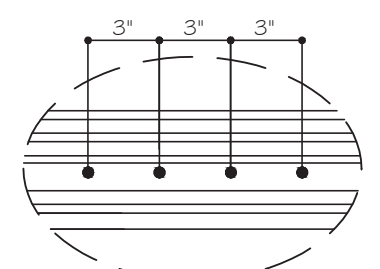
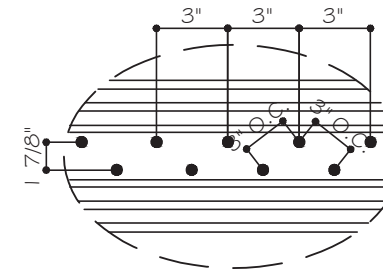
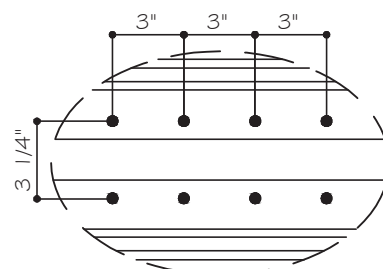
Drawn By

Date

Description



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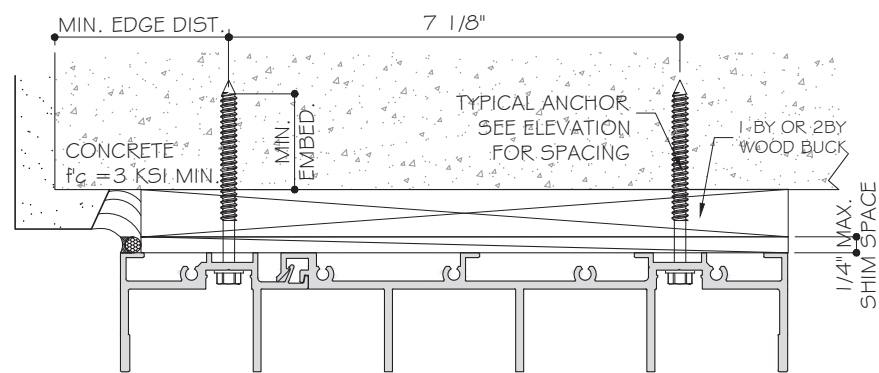


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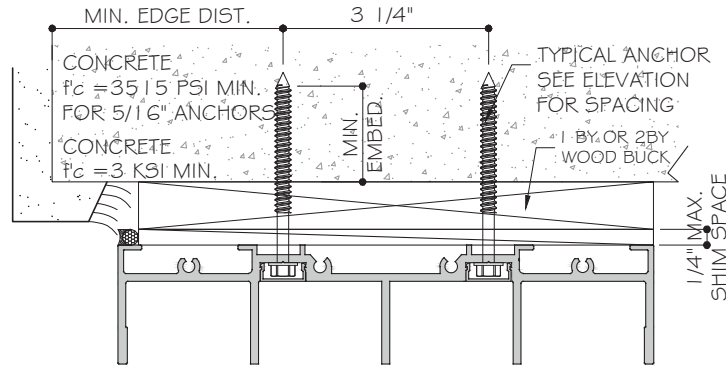
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FLORIDA REGISTRATION
FL #55983
C.A.N. #667

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

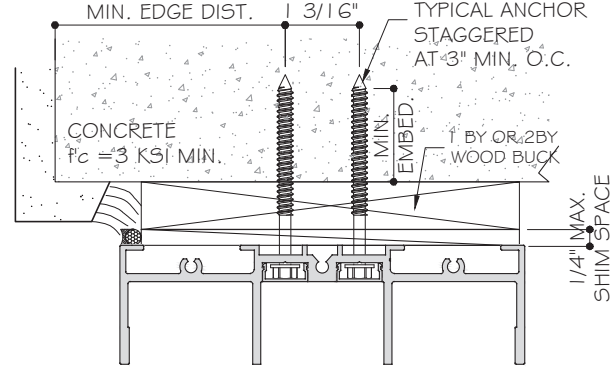
October 23rd, 2024



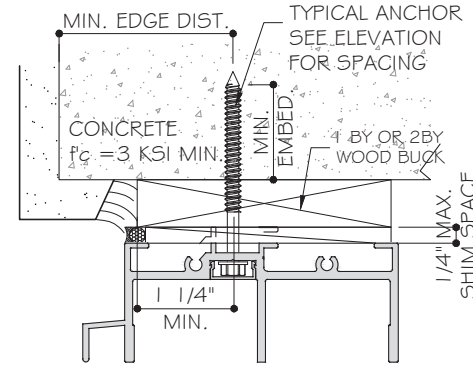
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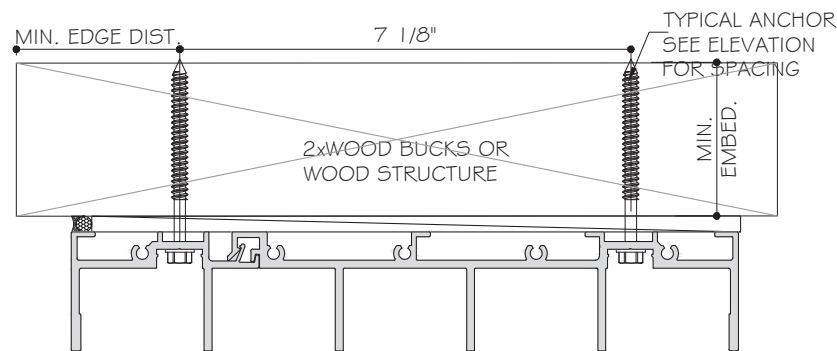
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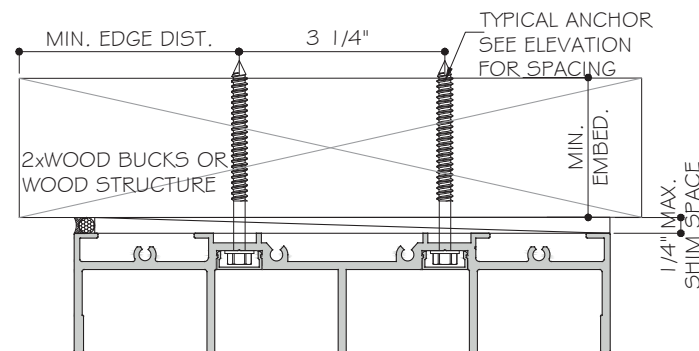
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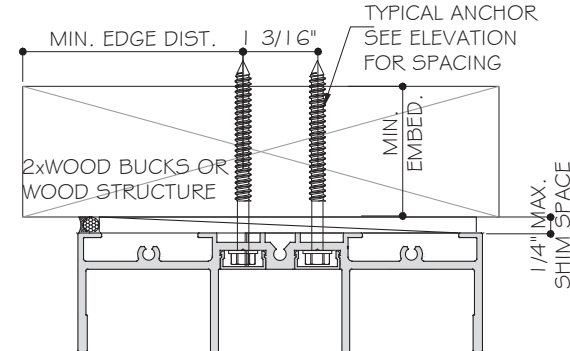
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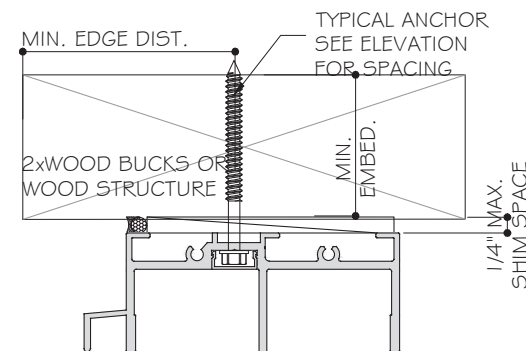
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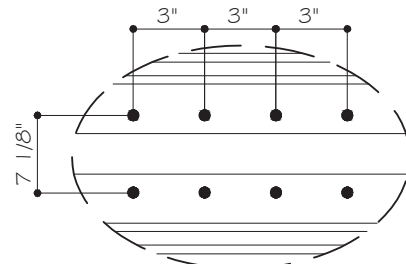
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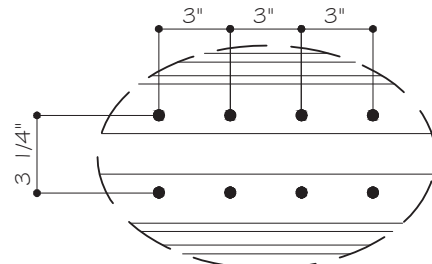
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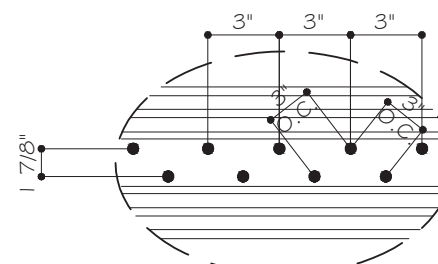
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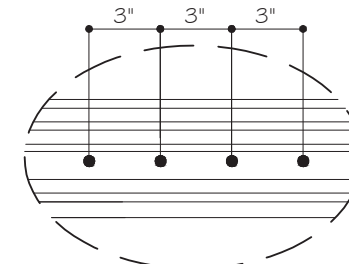
5 TRACK SGD



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.

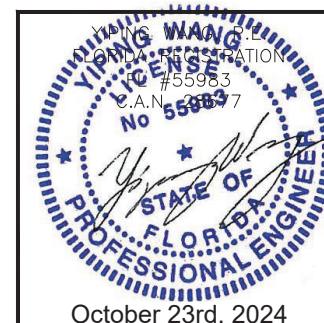
TYPE "BB": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164$ KSI, $F_y = 148$ KSI)
1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
SG=0.55 MIN.
OR THRU 1 BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED
INTO $f'_c = 3000$ PSI CONCRETE
2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

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:

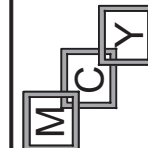
WOOD BUCKS/ METAL STRUCTURES BY OTHERS MUST BE PROPERLY
SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURES.



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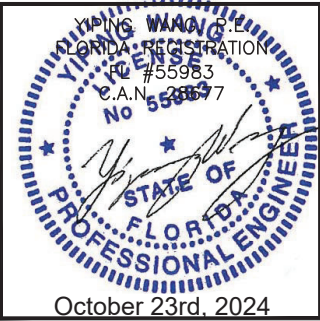
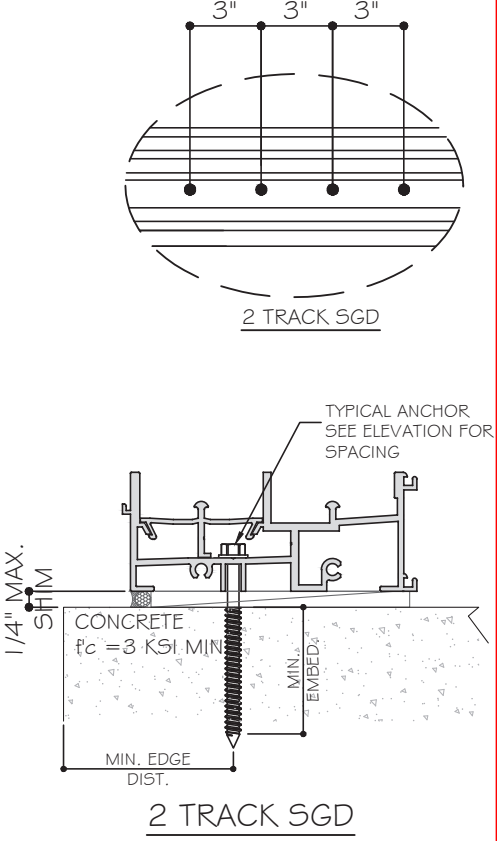
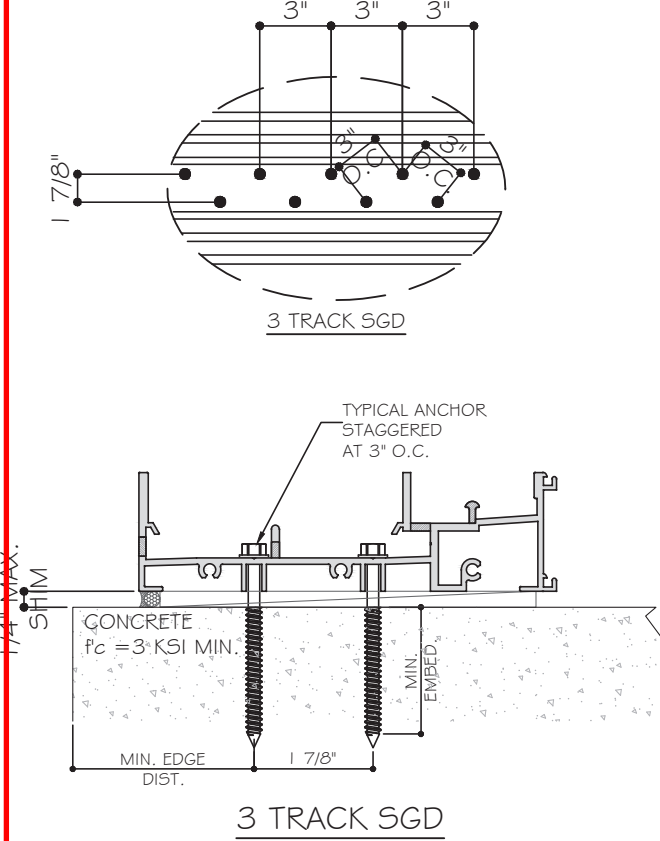
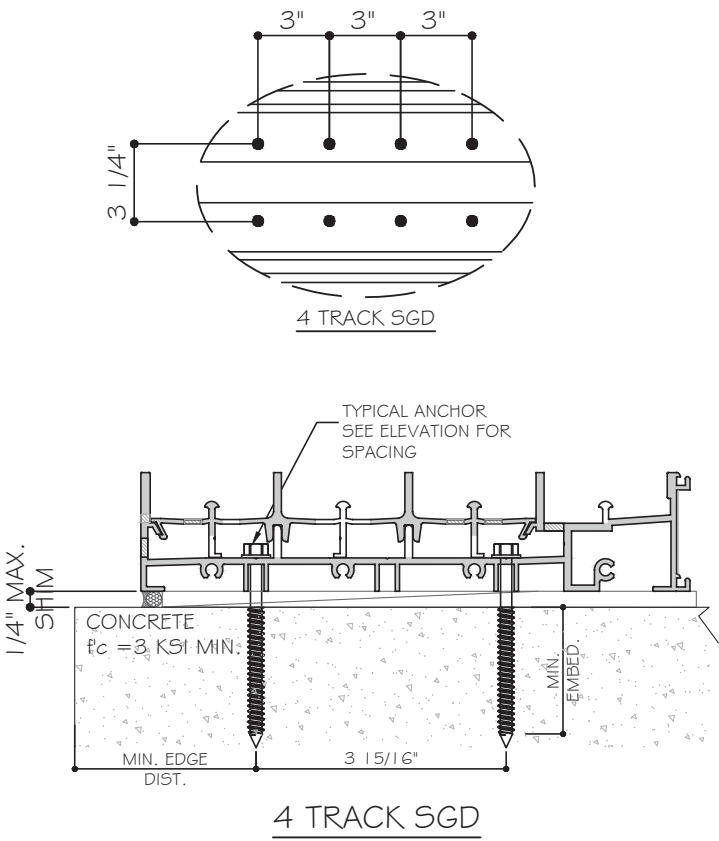
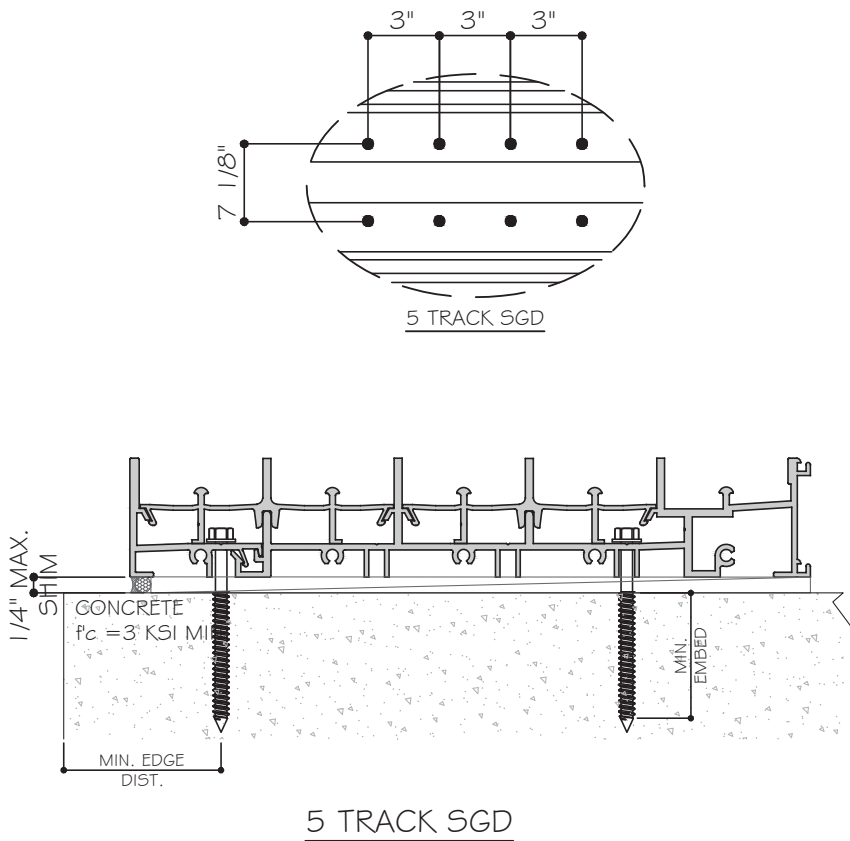
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SILL ANCHOR TYPES:

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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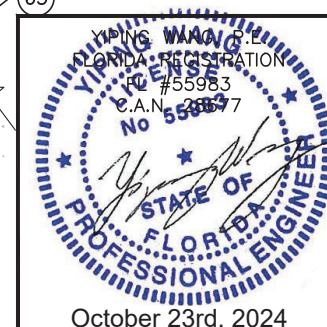
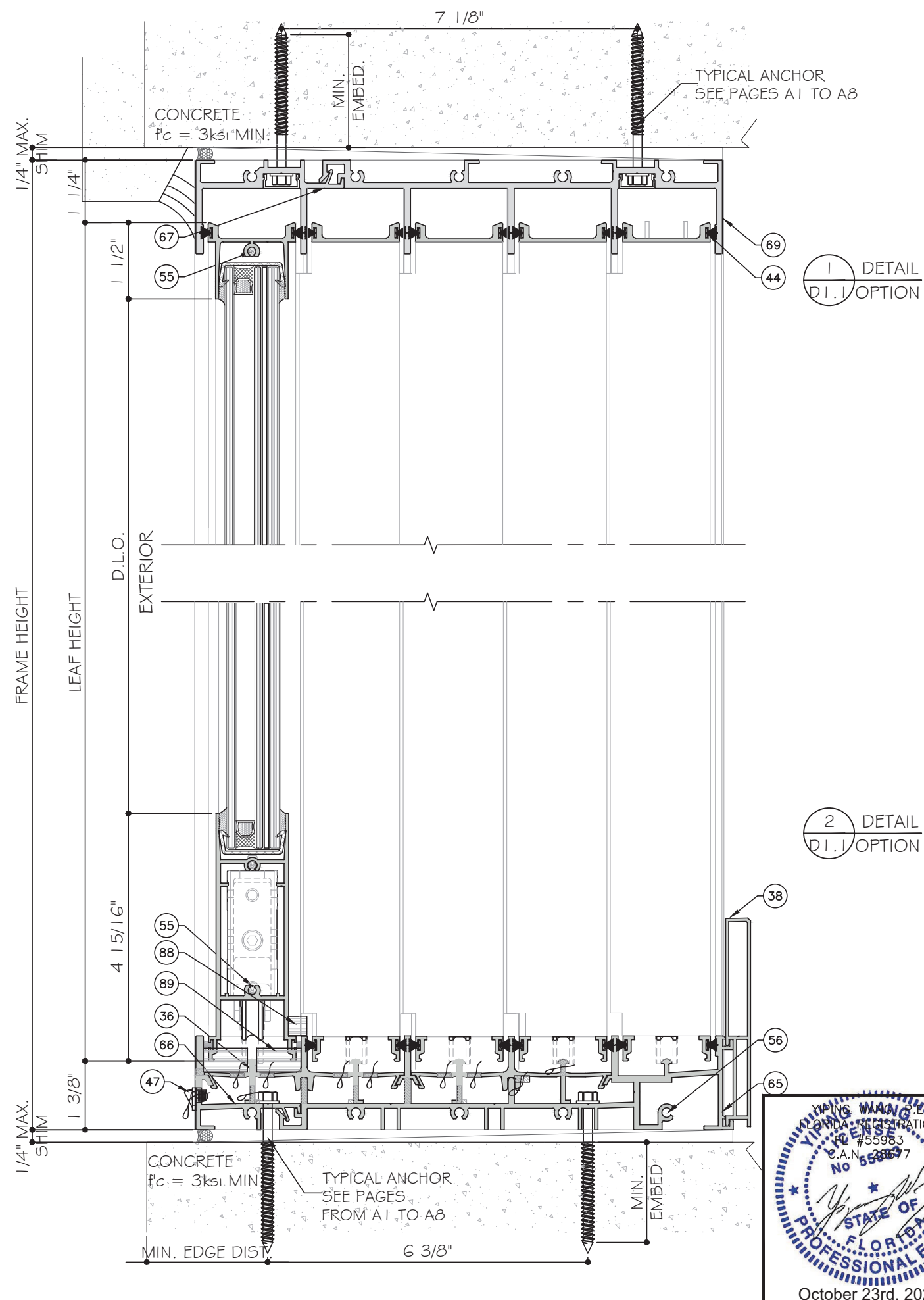
ES WINDOWS, INC.

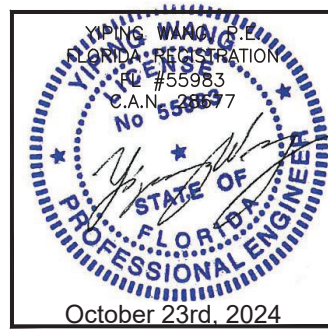
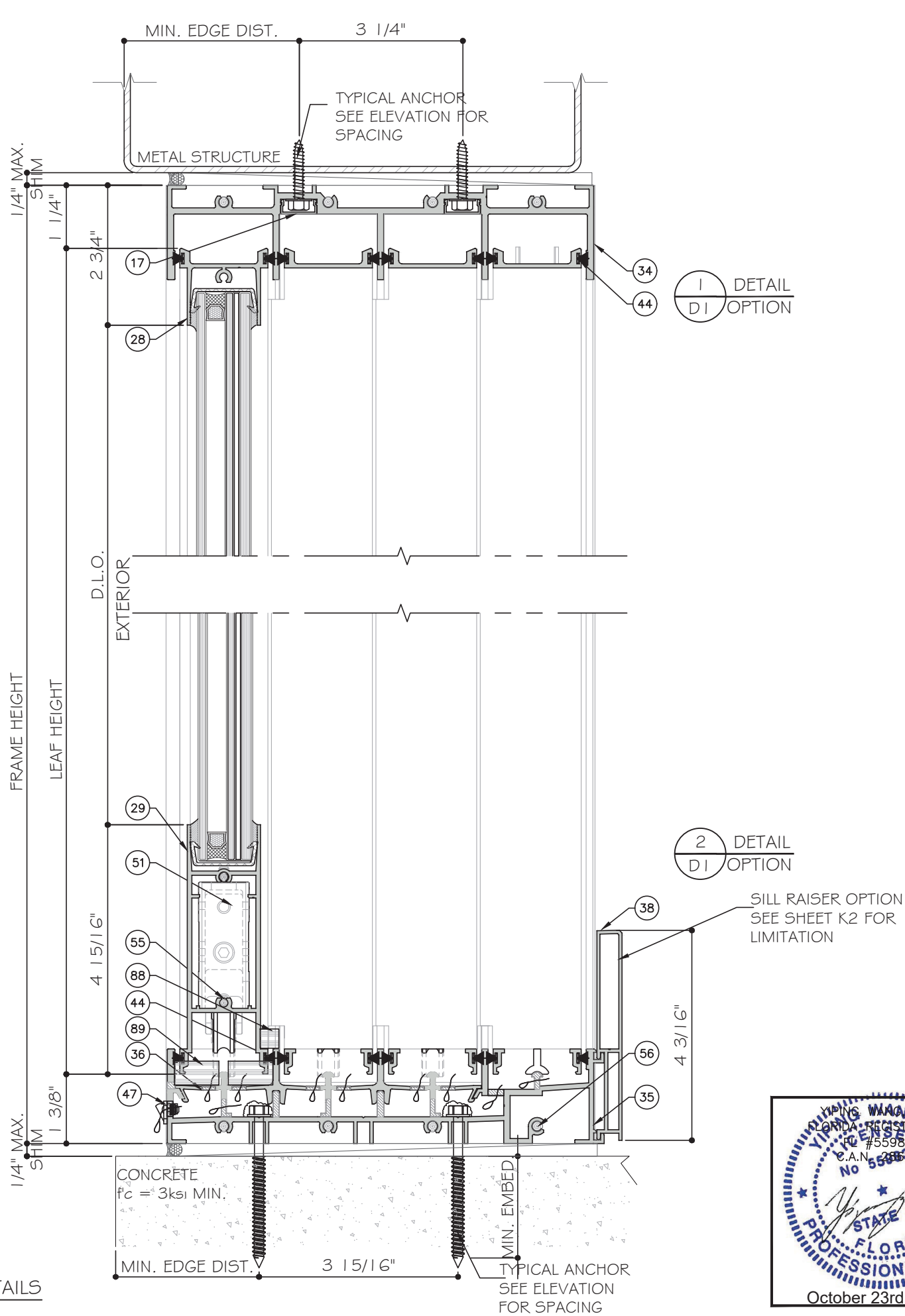
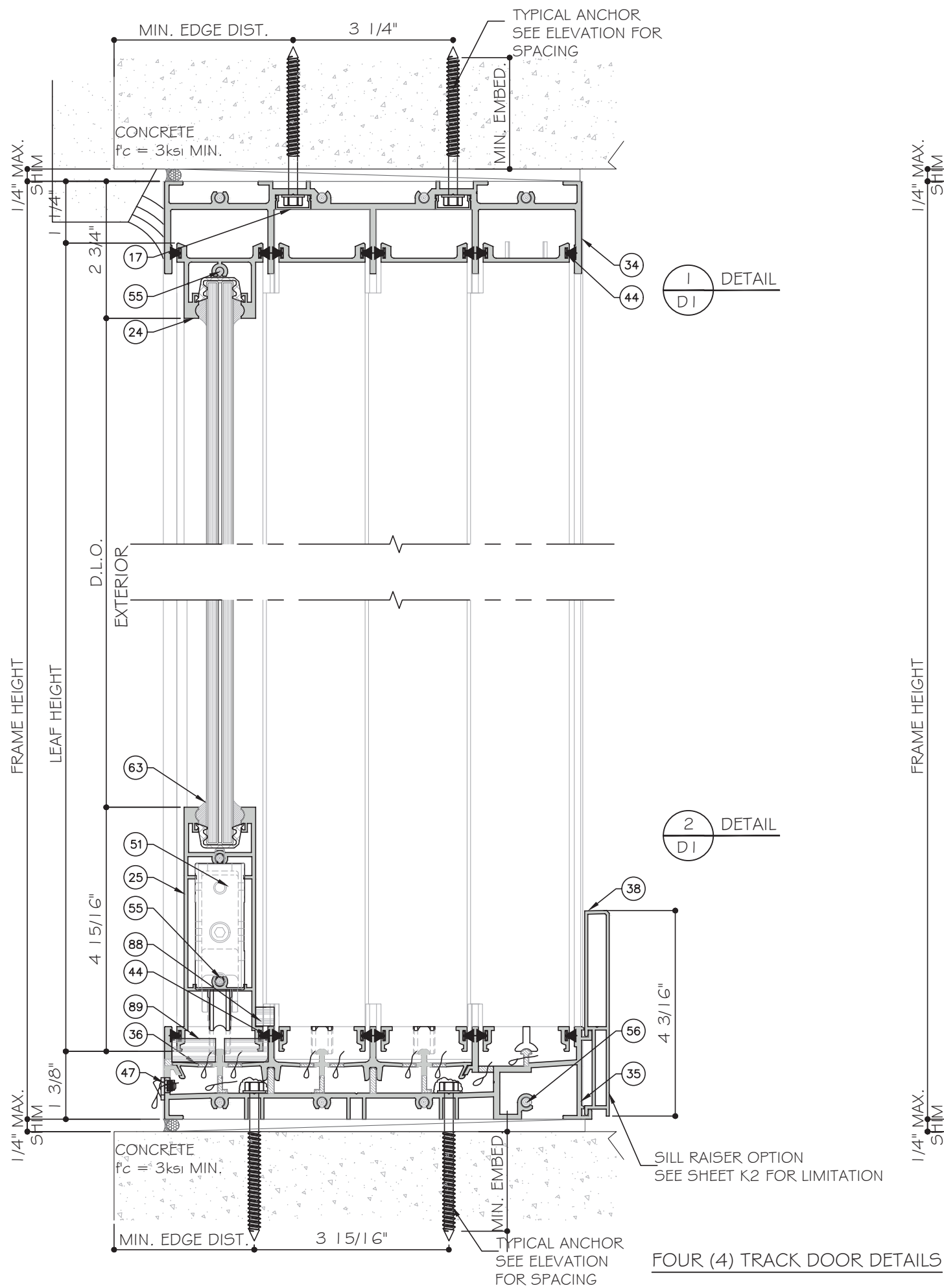
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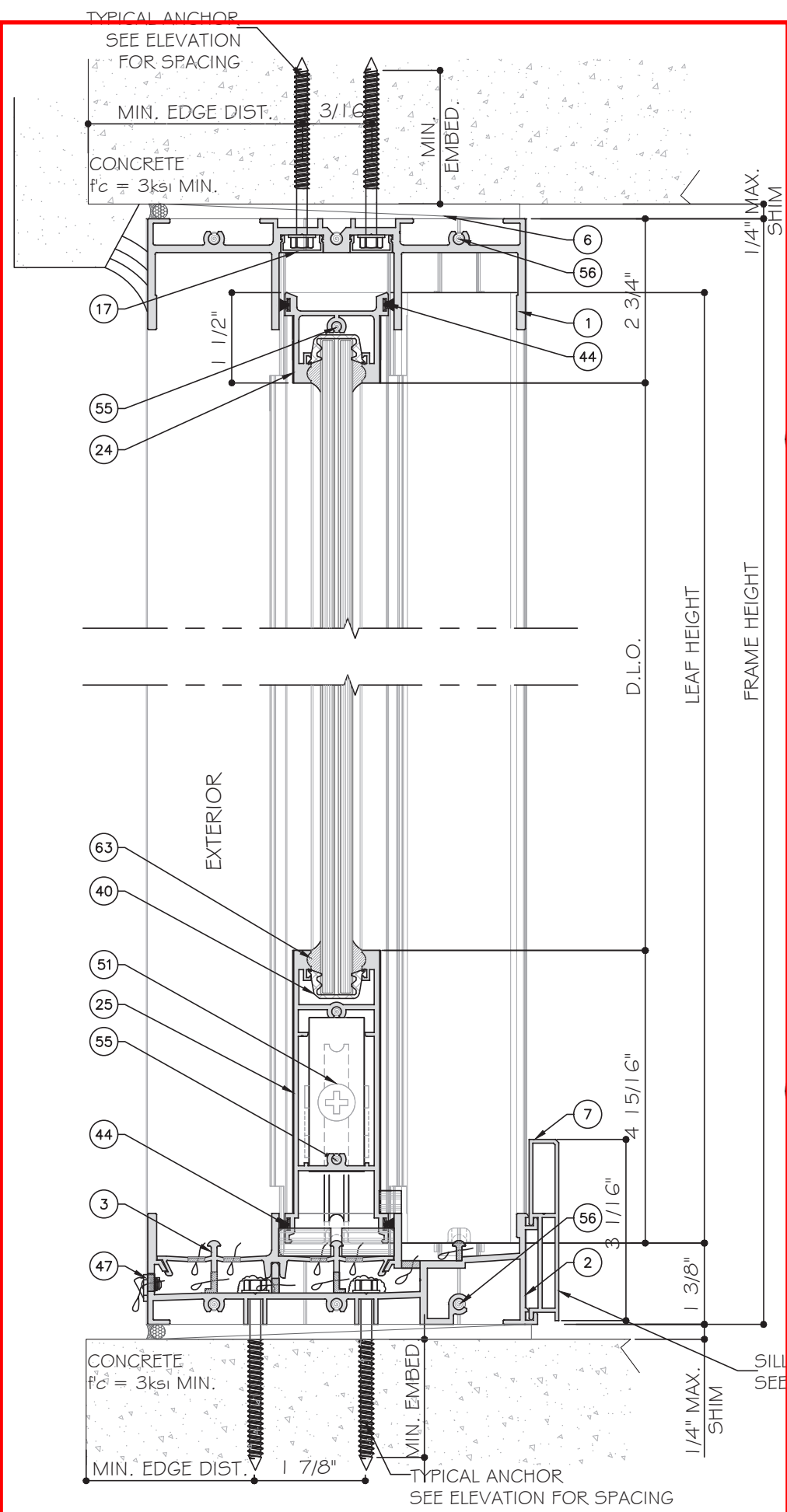
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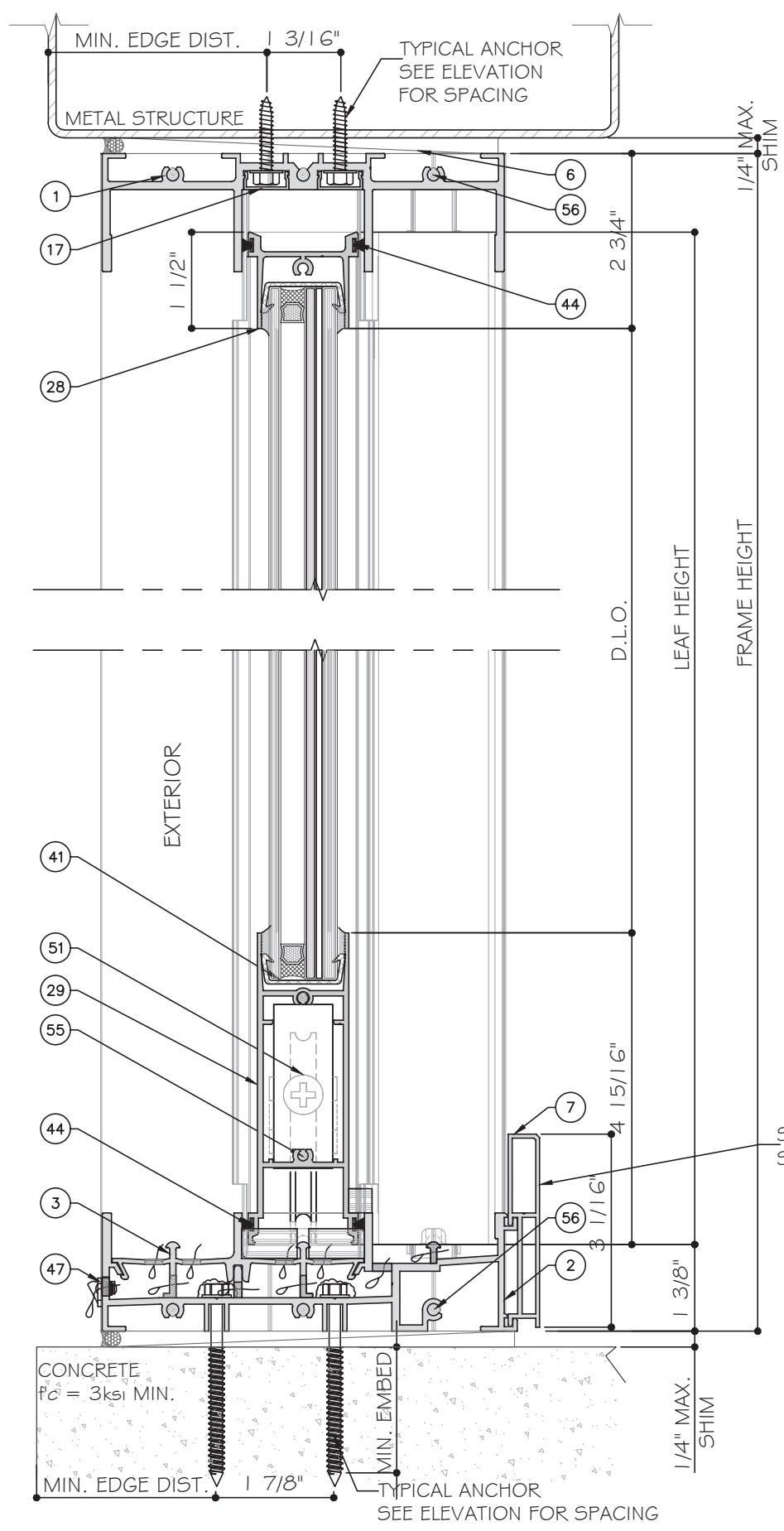


3
D2
DETAIL

4
D2
DETAIL

SILL RAISER OPTION
SEE SHEET K2 FOR LIMITATION

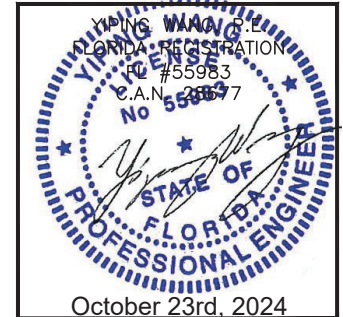
THREE (3) TRACK DOOR DETAILS



3
D2
DETAIL
OPTION

4
D2
DETAIL
OPTION

SILL RAISER OPTION
SEE SHEET K2 FOR LIMITATION



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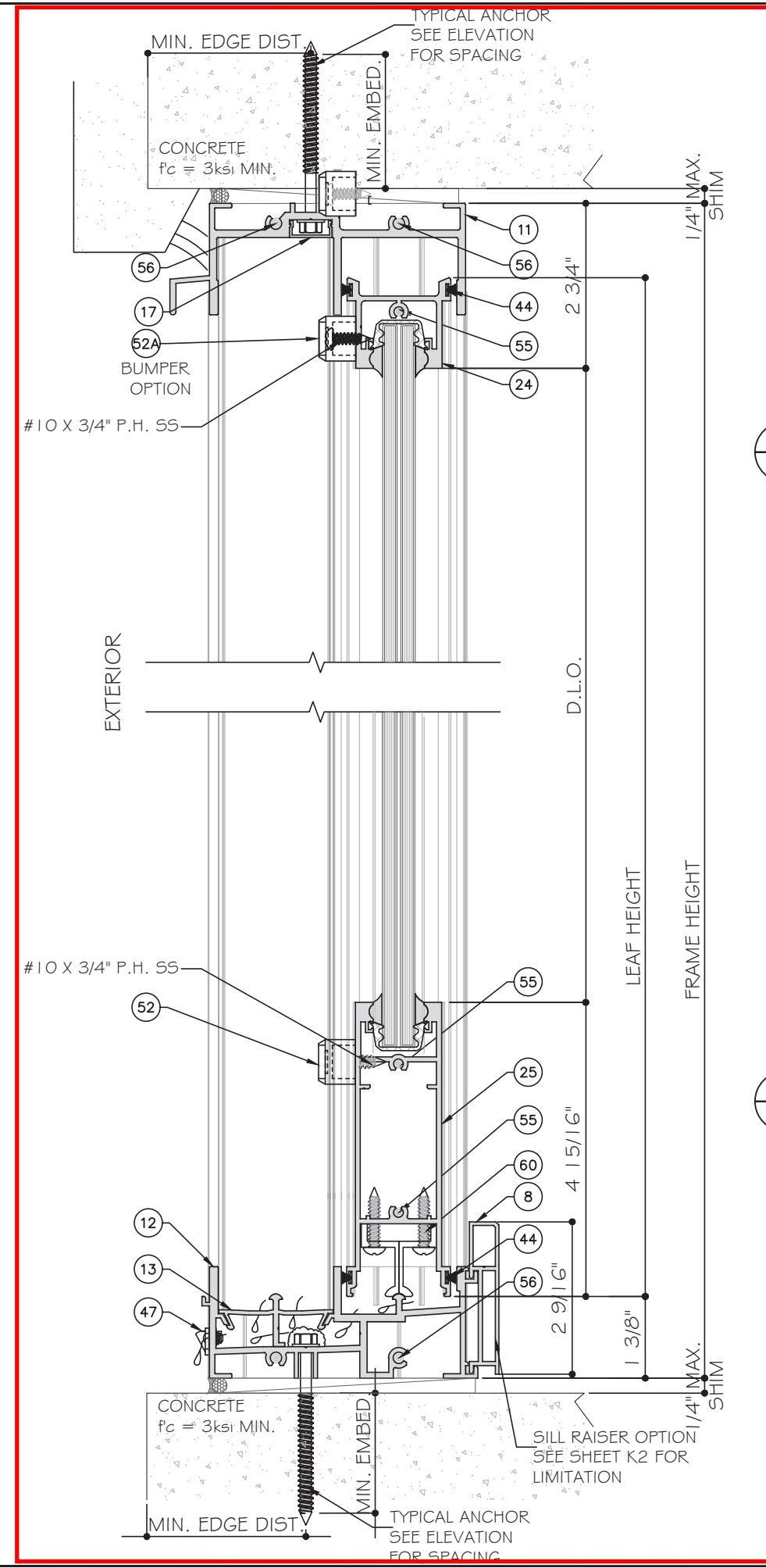
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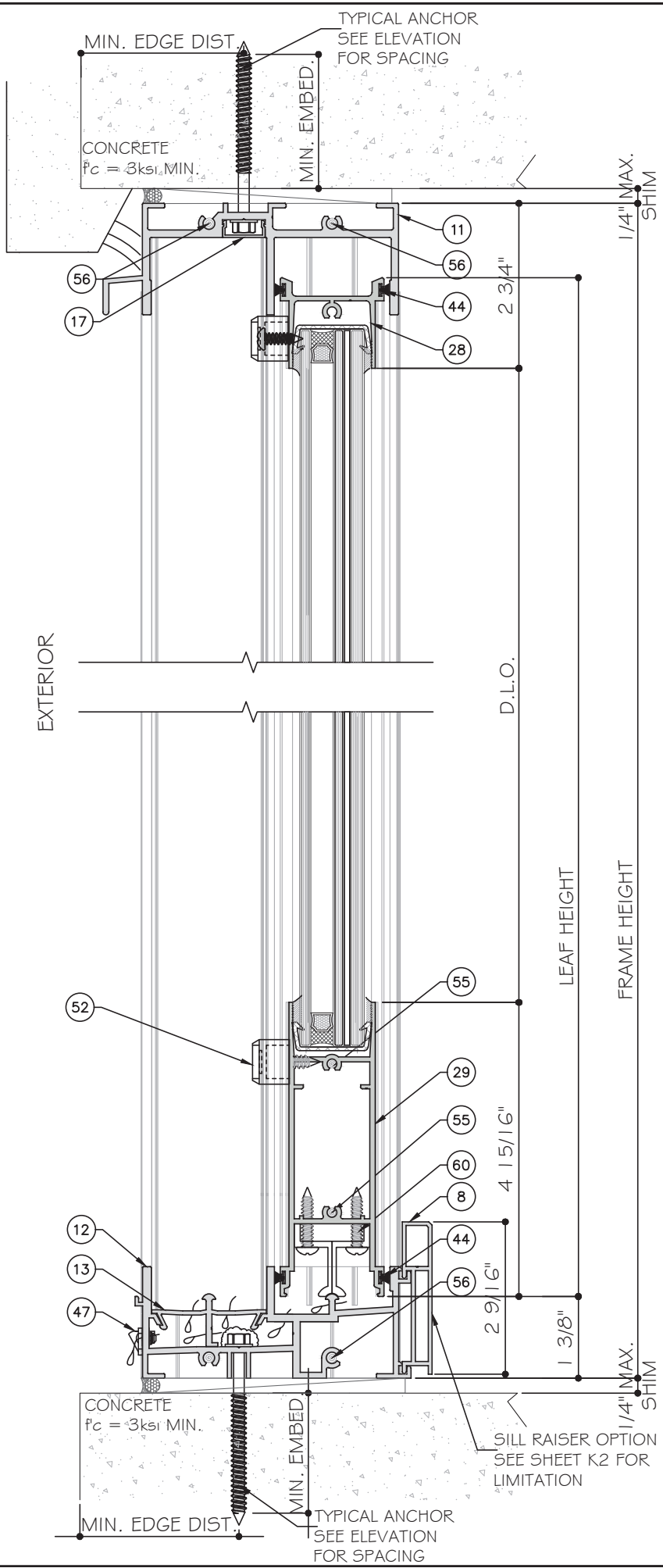
31 OF 59



5
D3
DETAIL

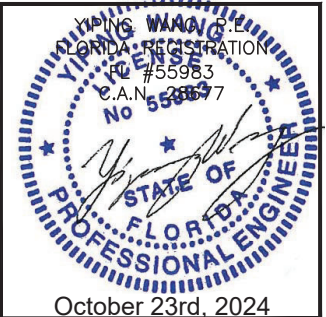
6
D3
DETAIL

TWO (2) TRACK DOOR DETAILS



5
D3
DETAIL
OPTION

6
D3
DETAIL
OPTION



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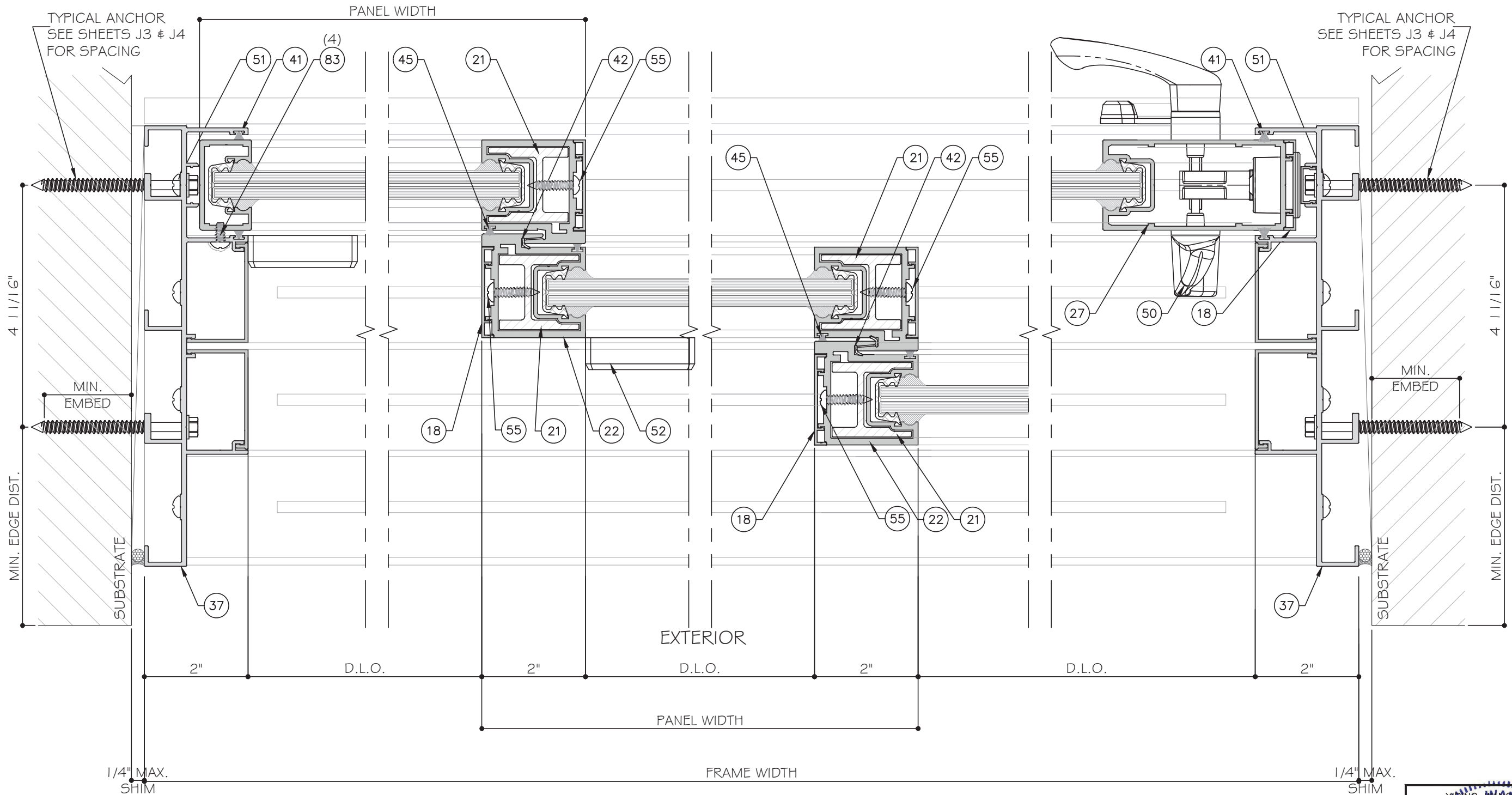
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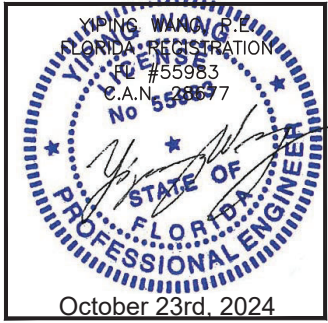
7
D4
DETAIL

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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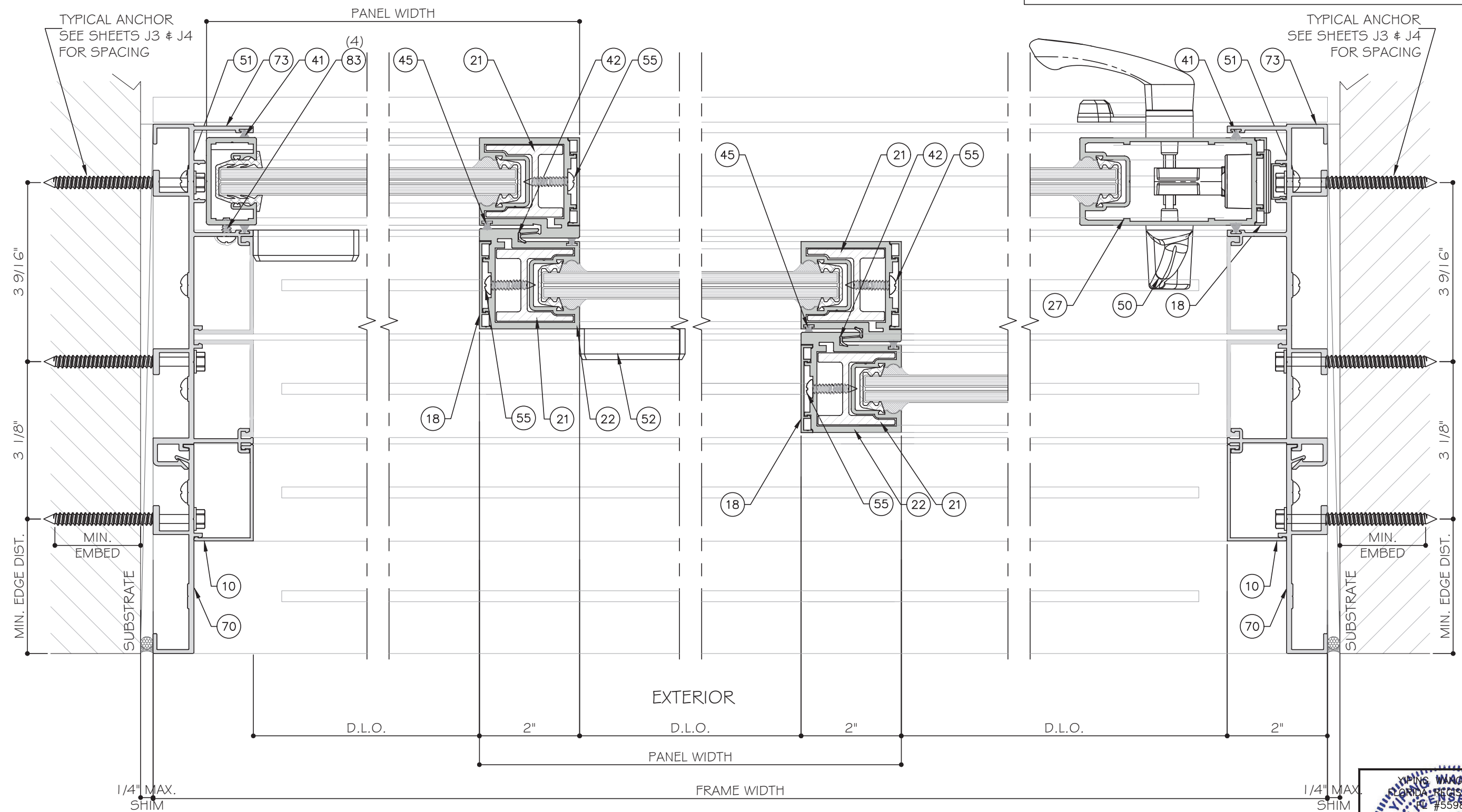
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D4			
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN. SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.

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

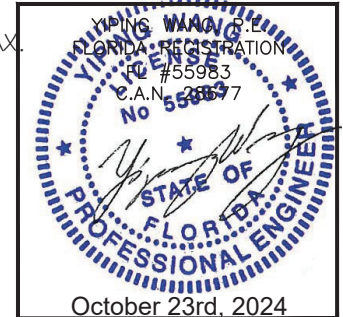
7
D4.1
DETAIL

8
D4.1
DETAIL

9
D4.1
DETAIL

7A
D4.1
DETAIL

FIVE (5) TRACK DOOR DETAILS



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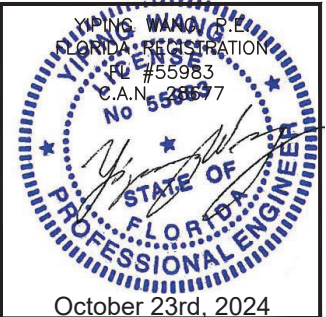
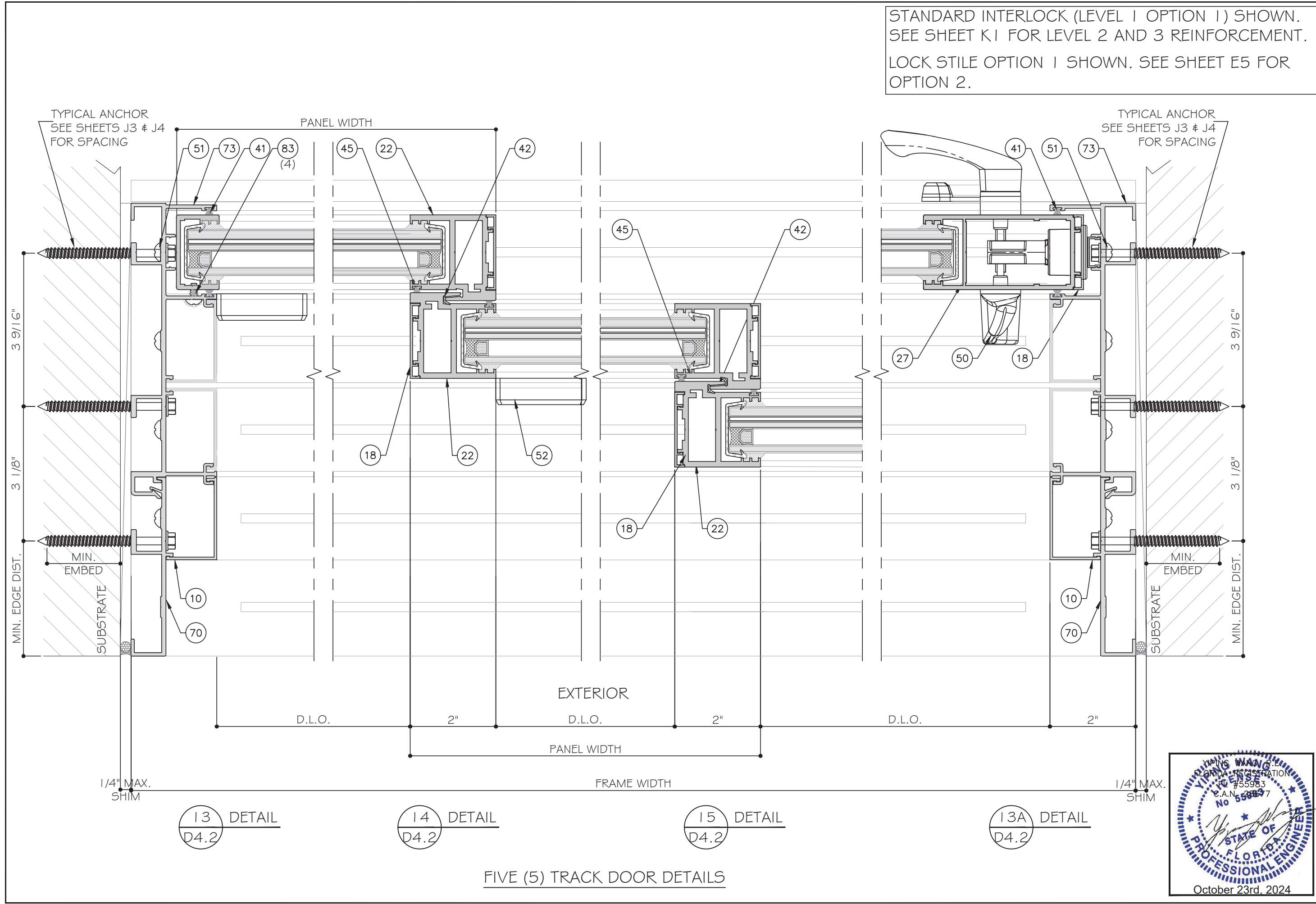
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Scale:

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D4.1

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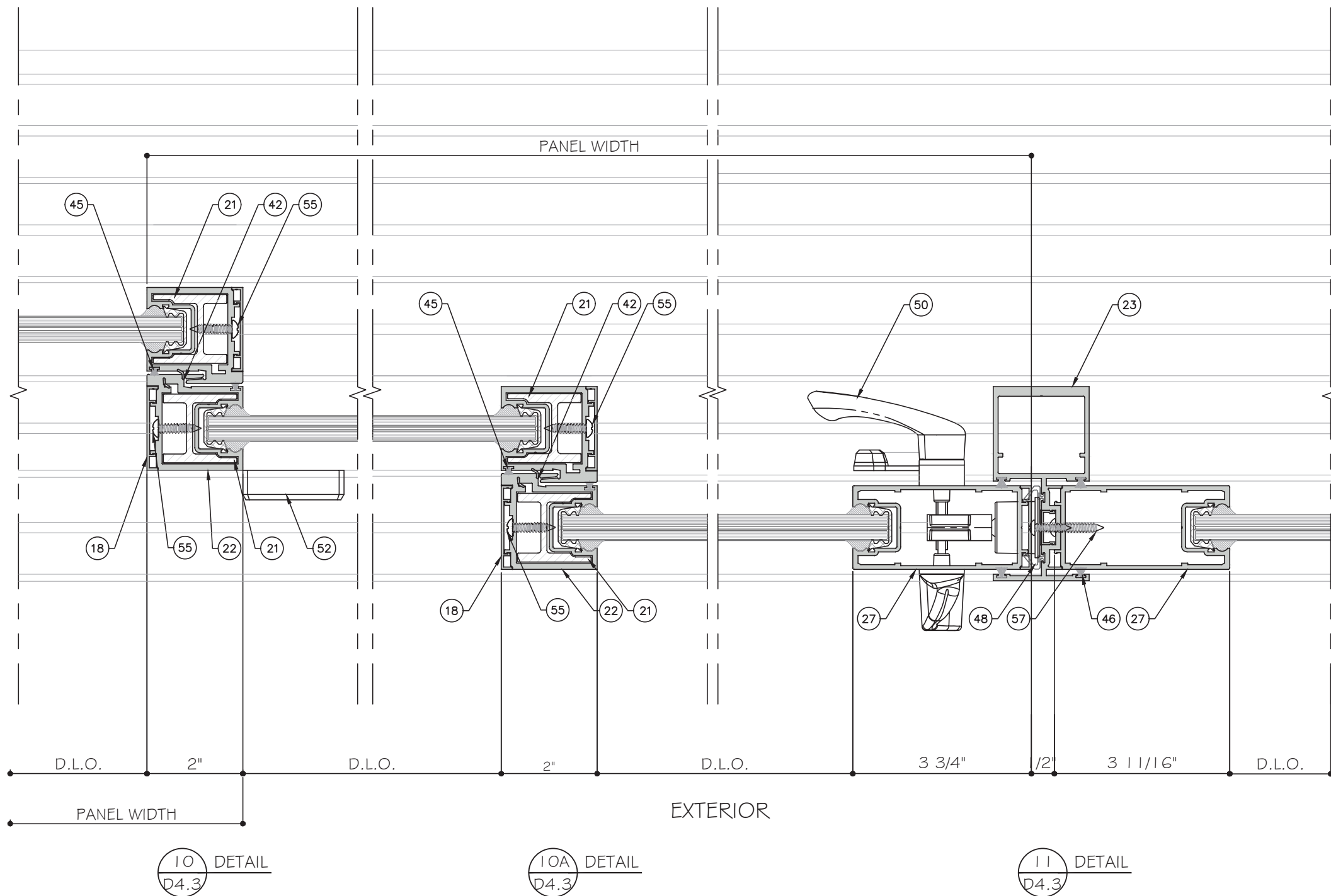
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10.08.2024

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DRAWING NO.
AD16-29

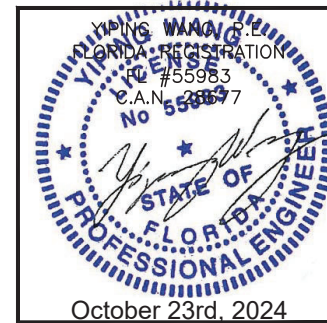
D4.2

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.

FIVE (5) TRACK DOOR DETAILS



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M

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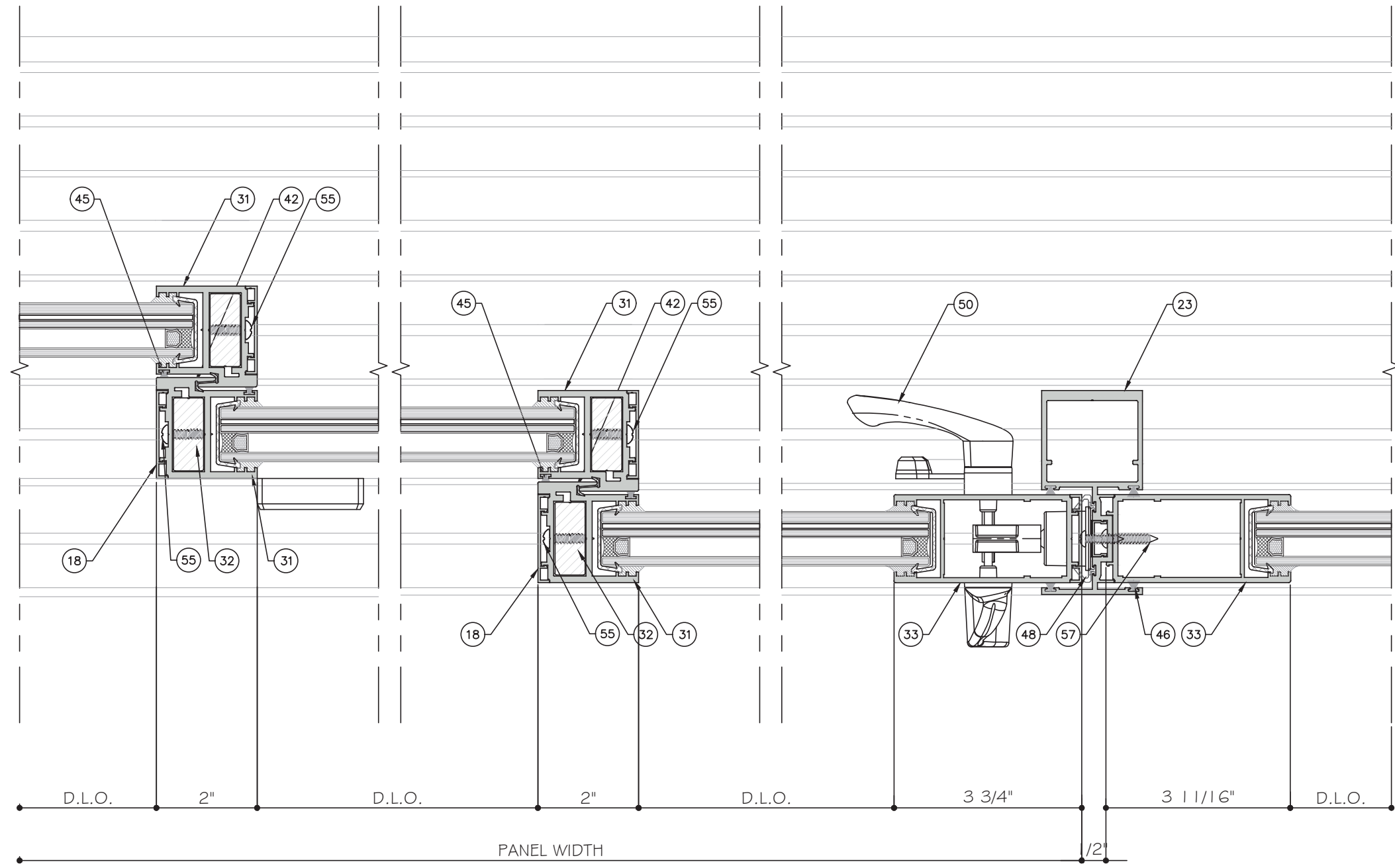
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D4.3



16 DETAIL
D4.4

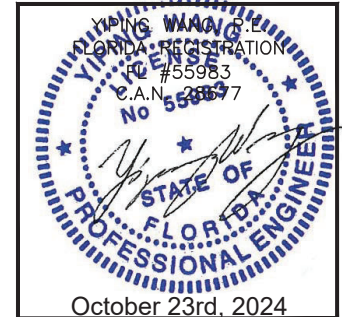
16A DETAIL
D4.4

17 DETAIL
D4.4

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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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

ES WINDOWS, INC.

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TEL: (305) 624-7775

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1	10.08.2024	James	

Drawn Date

10.08.2024

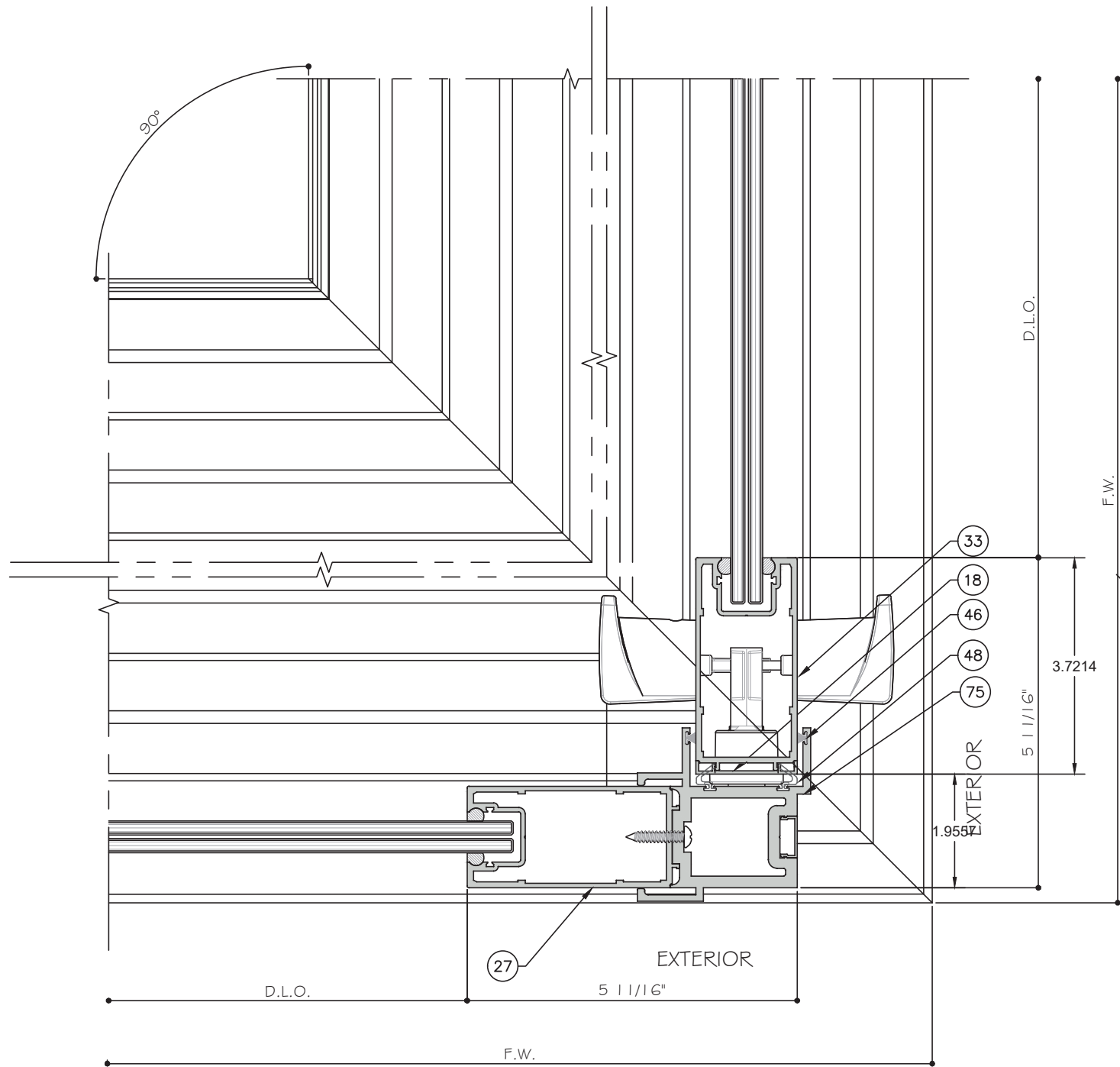
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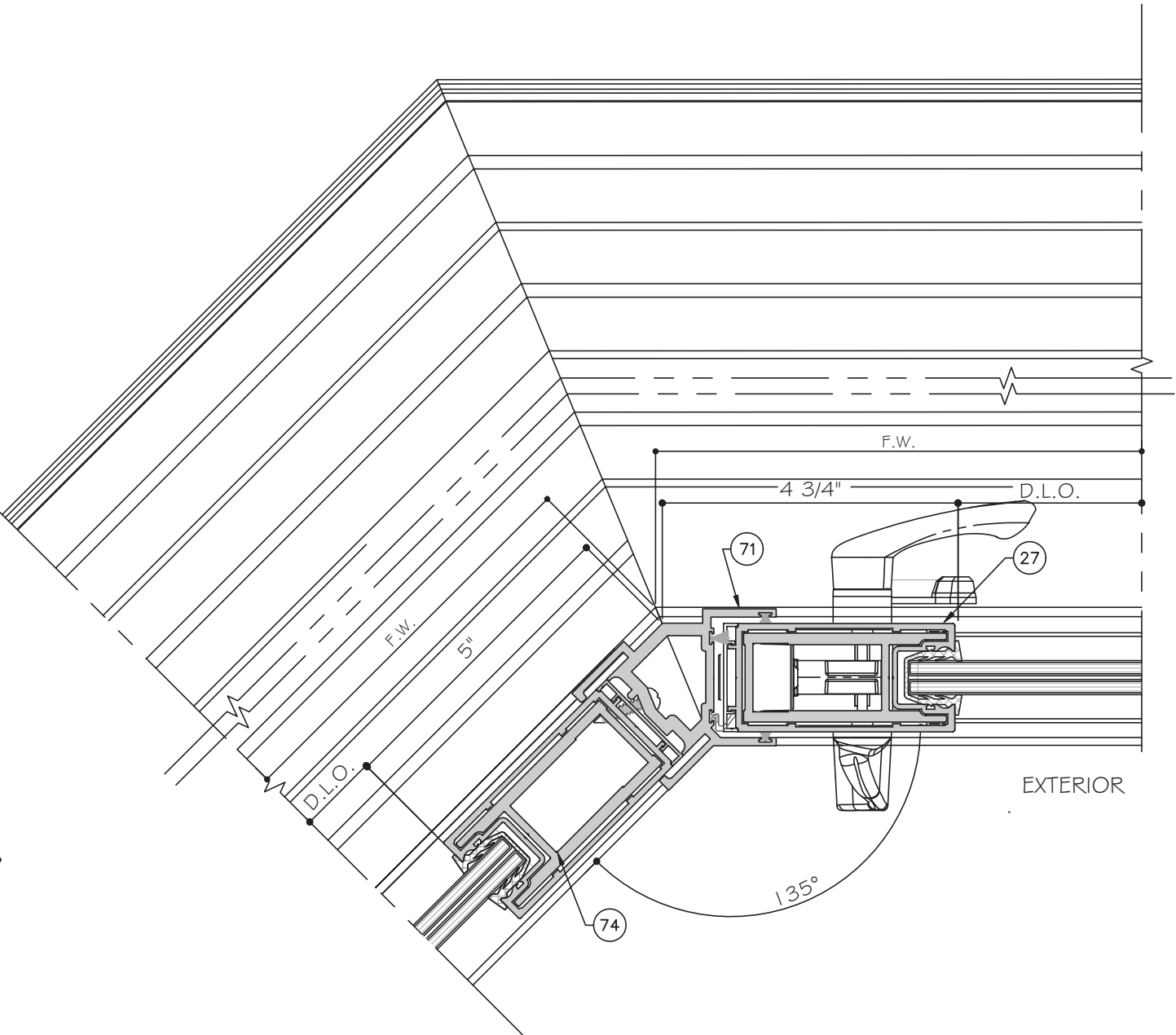
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43 DETAIL
D4.5

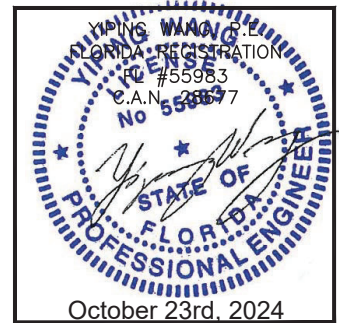


44 DETAIL
D4.5

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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1	10.08.2024	James	REVISION

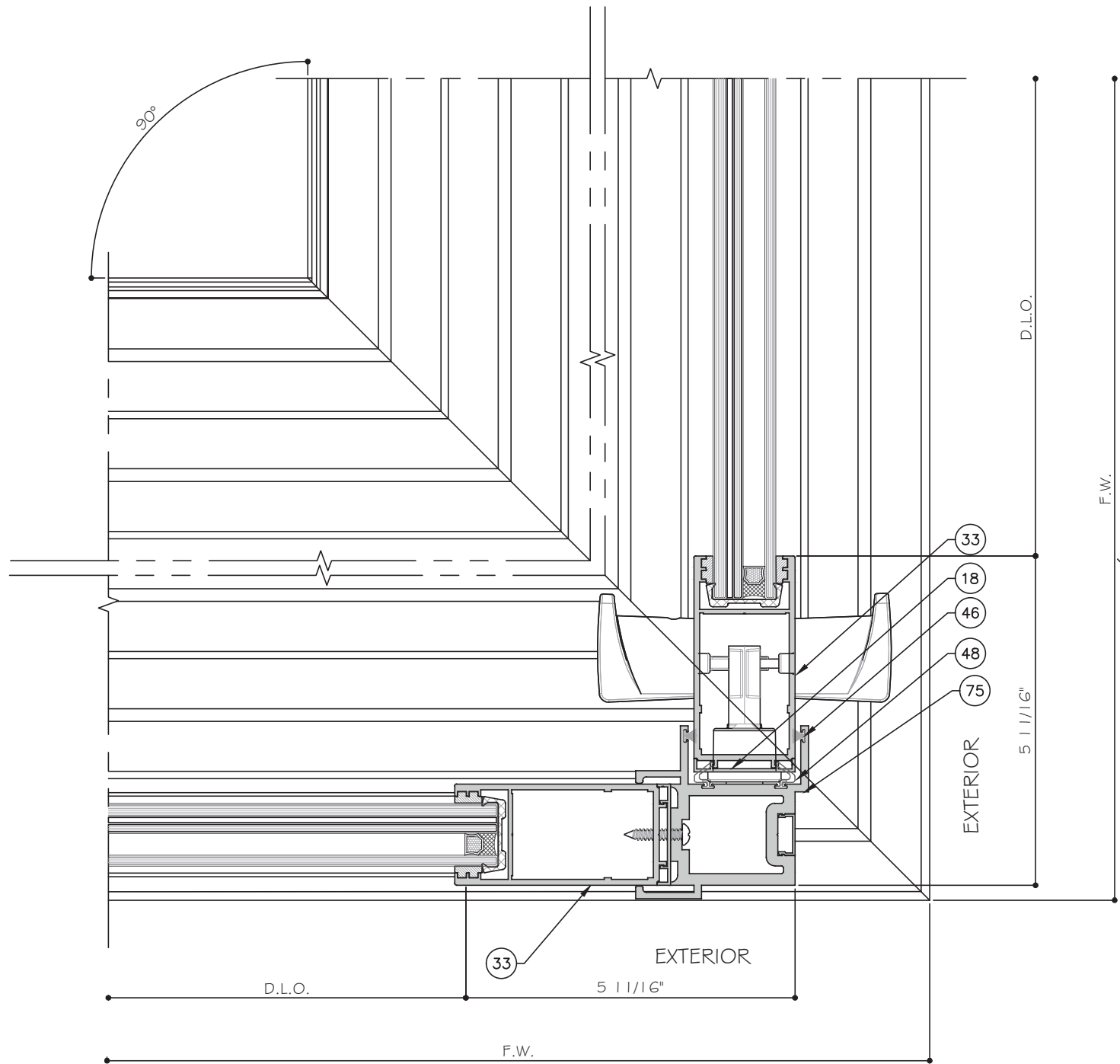
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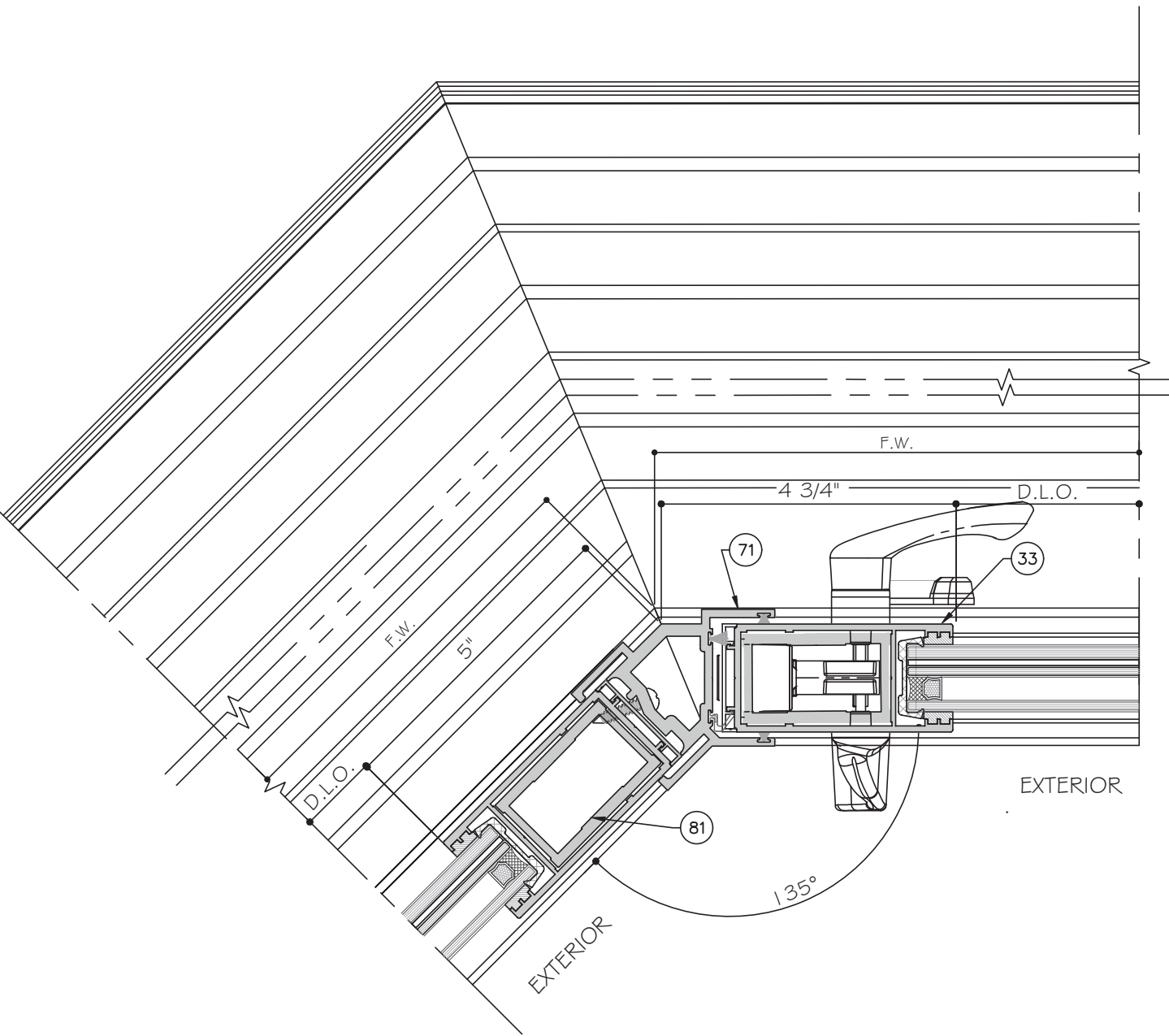
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45 DETAIL
D4.6

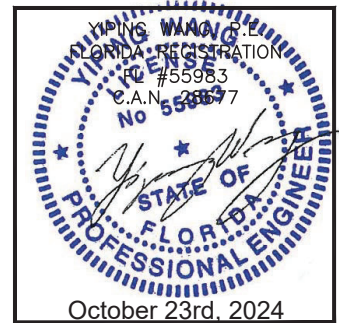


46 DETAIL
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CORNER DETAILS

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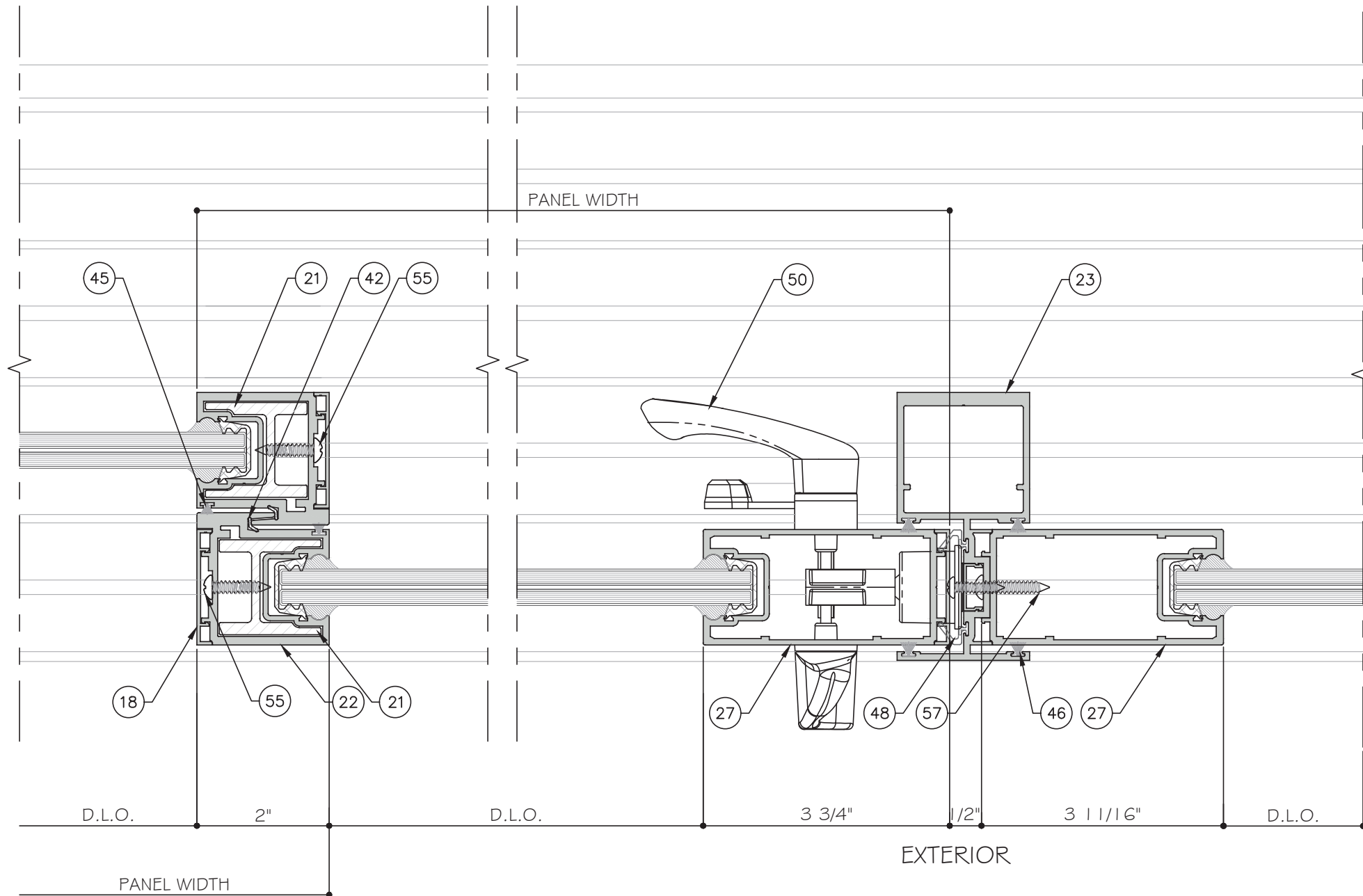
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Sheet No.
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D5

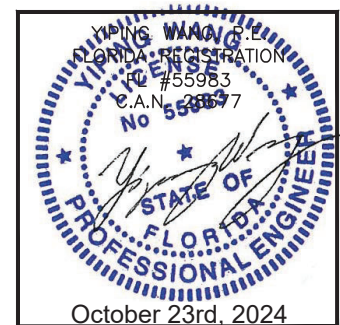
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11
D5

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.

FOUR (4) TRACK DOOR DETAILS



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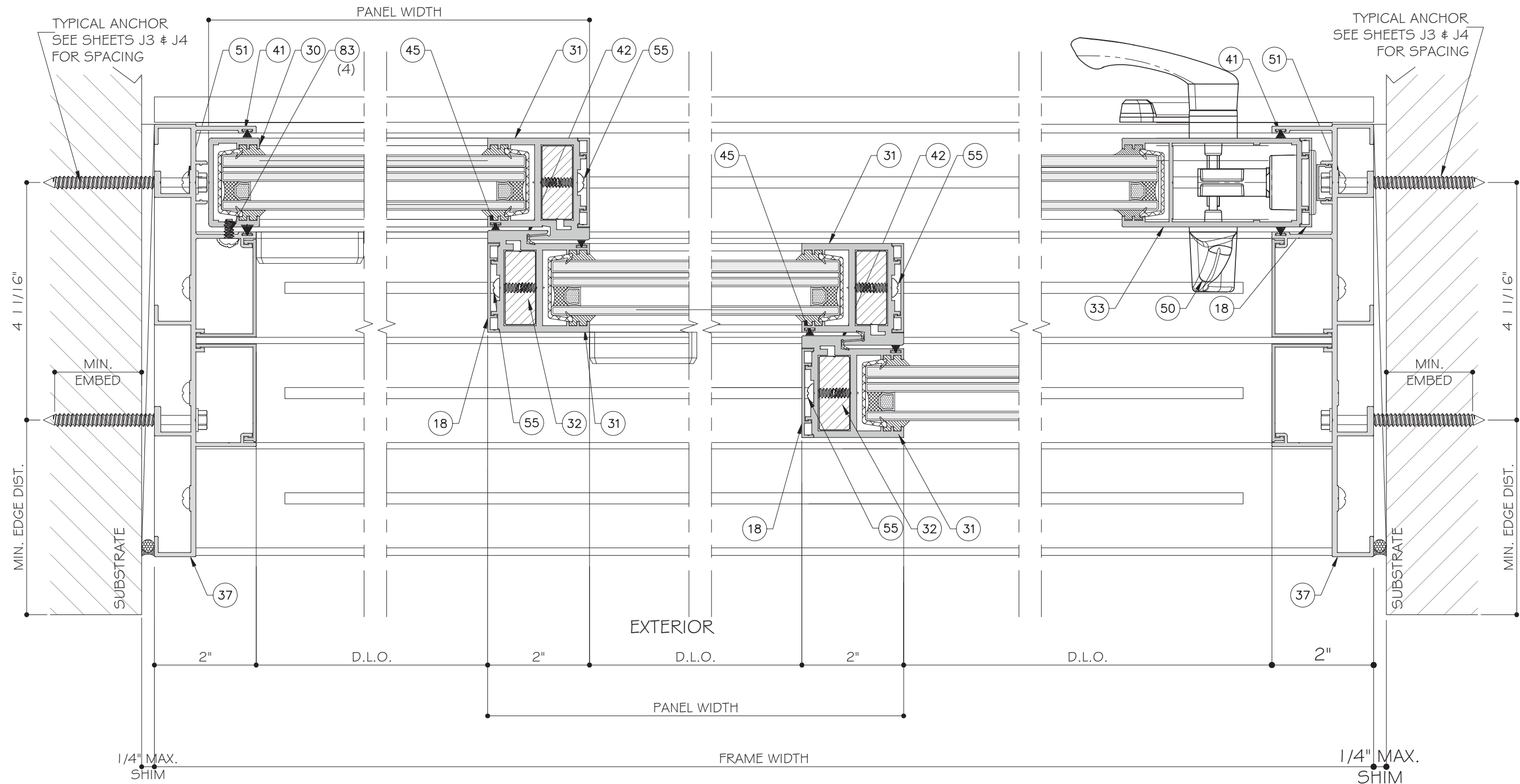
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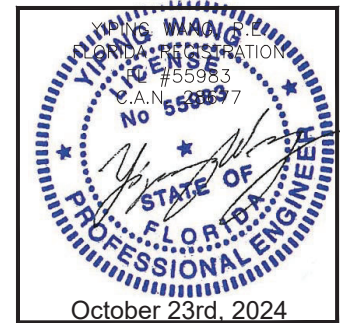
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
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FOUR (4) TRACK DOOR DETAILS



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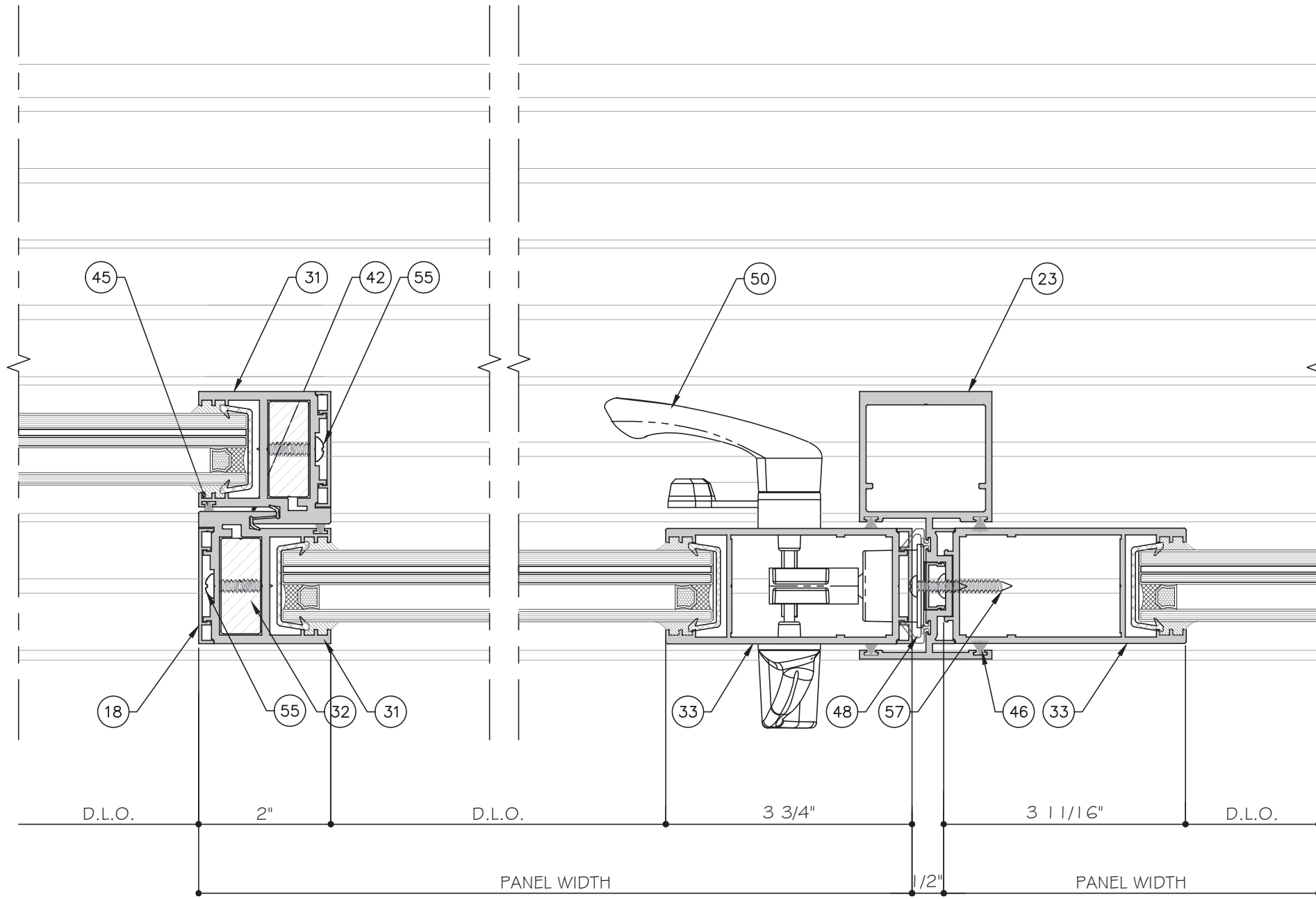
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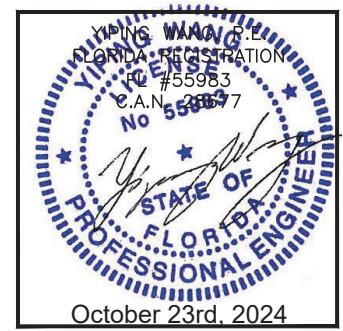


16
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FOUR (4) TRACK DOOR DETAILS

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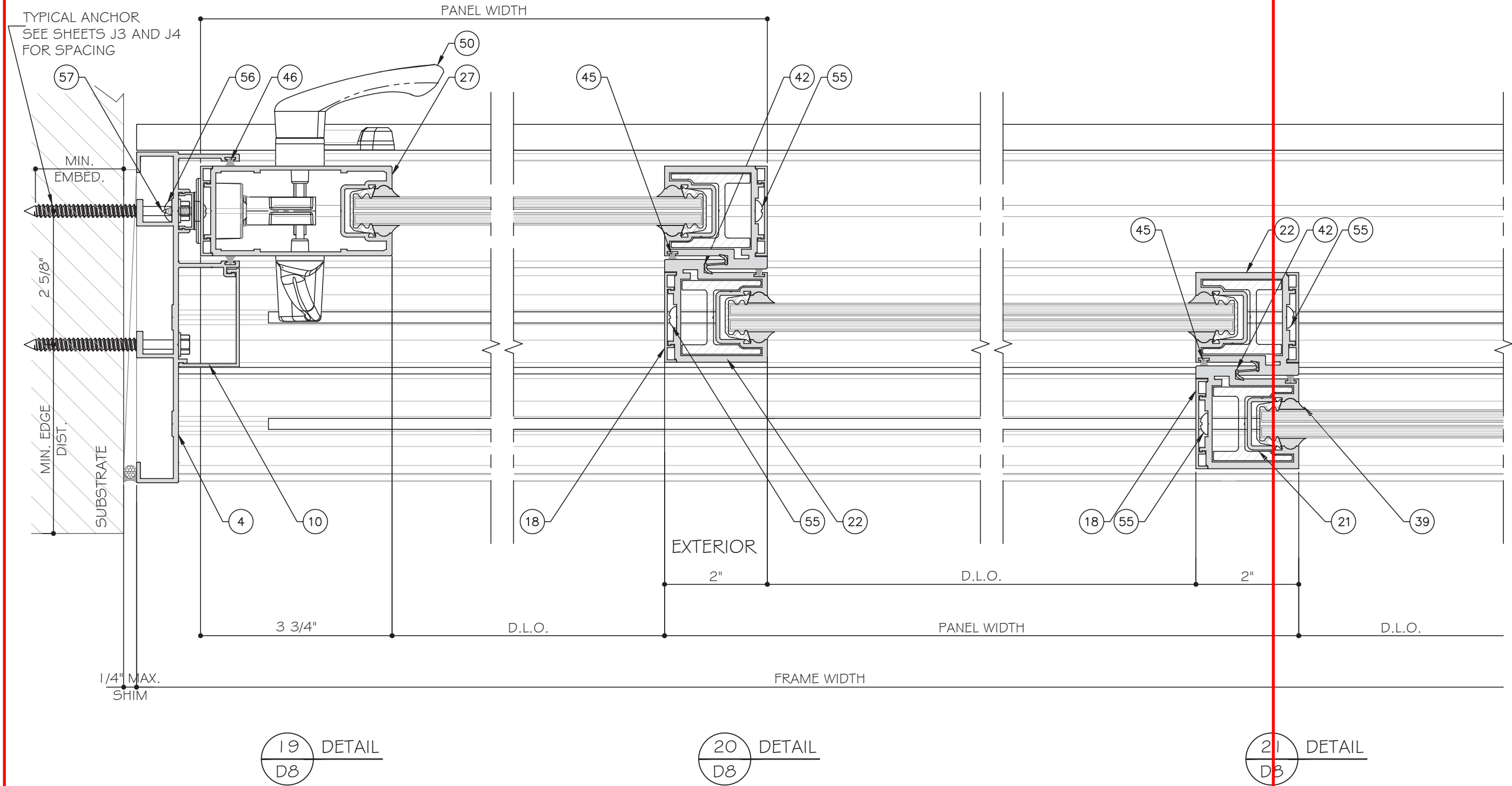
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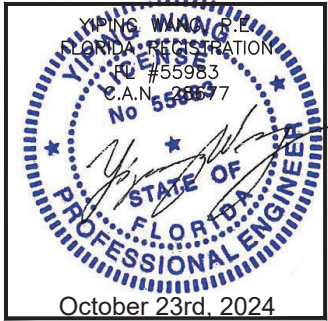
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
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THREE (3) TRACK DOOR DETAILS



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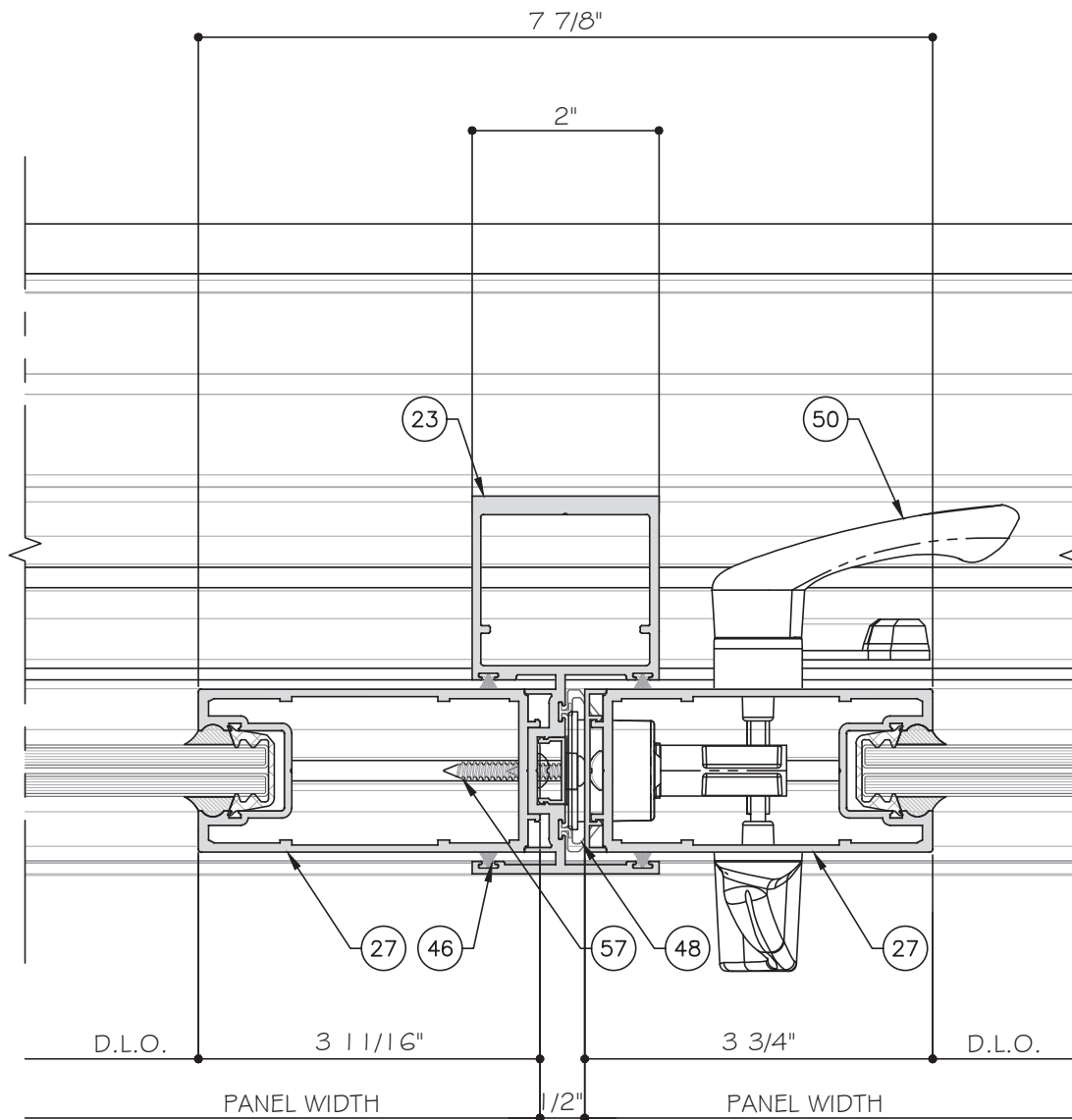
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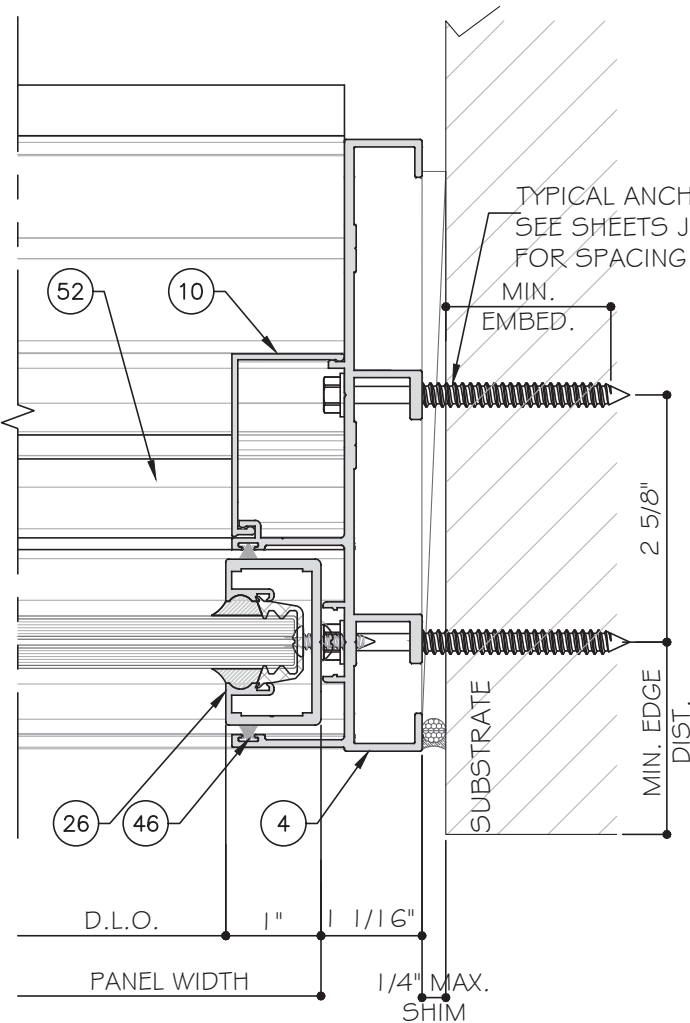
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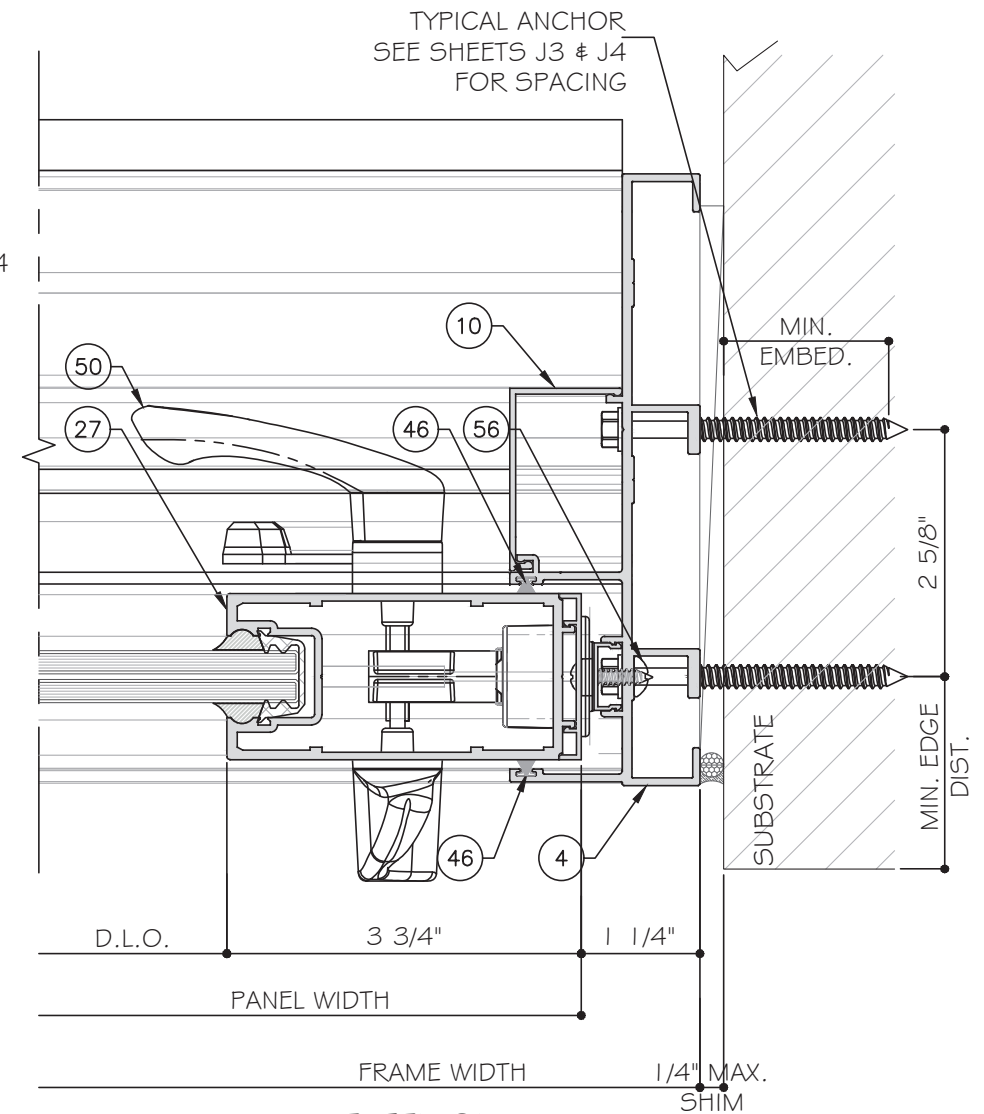


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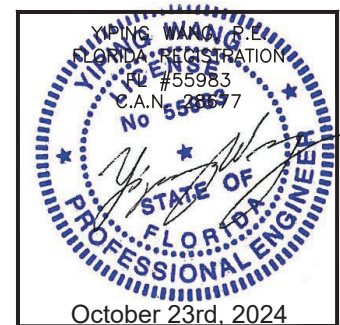
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LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

THREE (3) TRACK DOOR DETAILS



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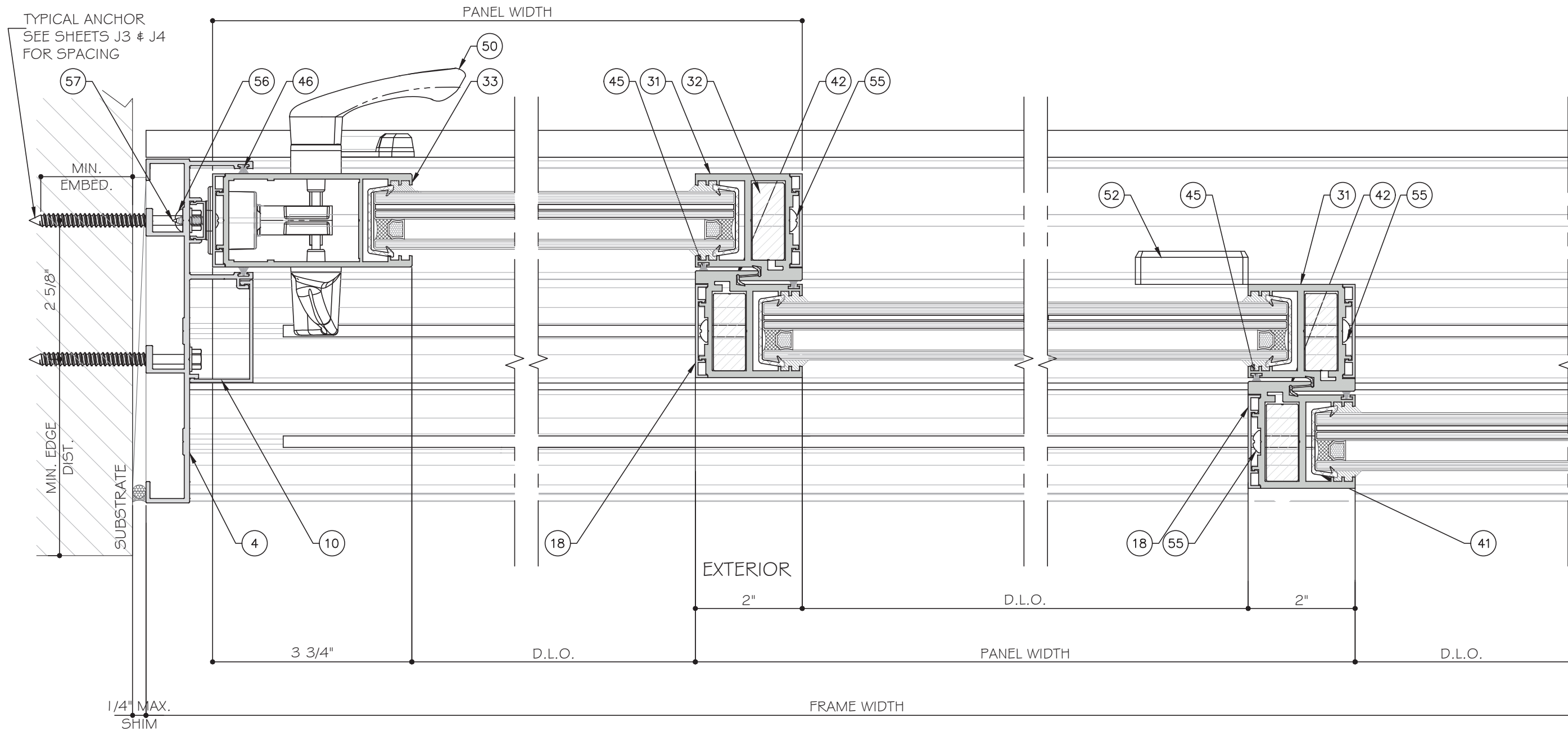
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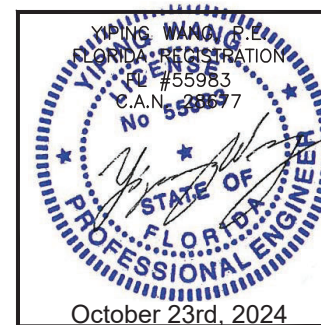
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
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THREE (3) TRACK DOOR DETAILS



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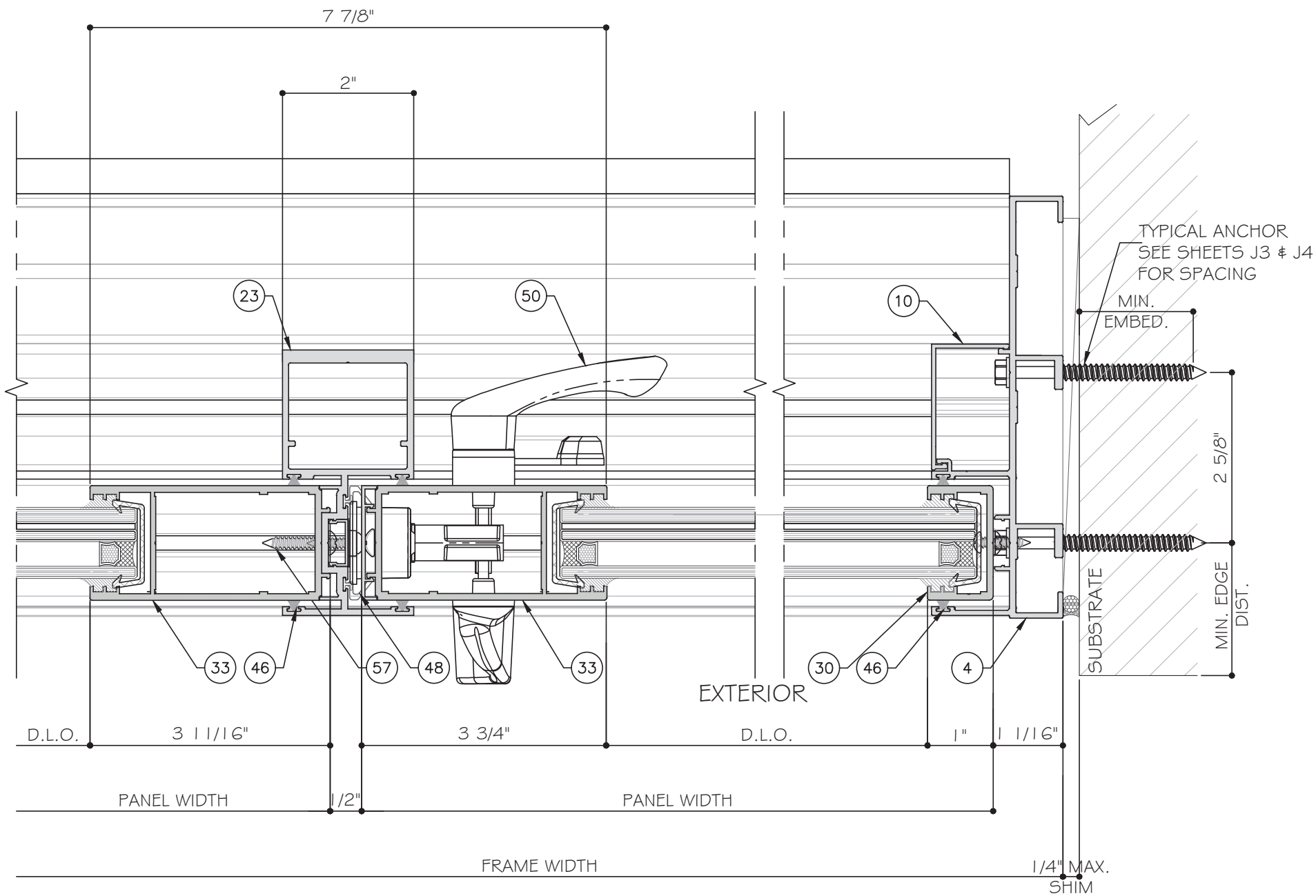
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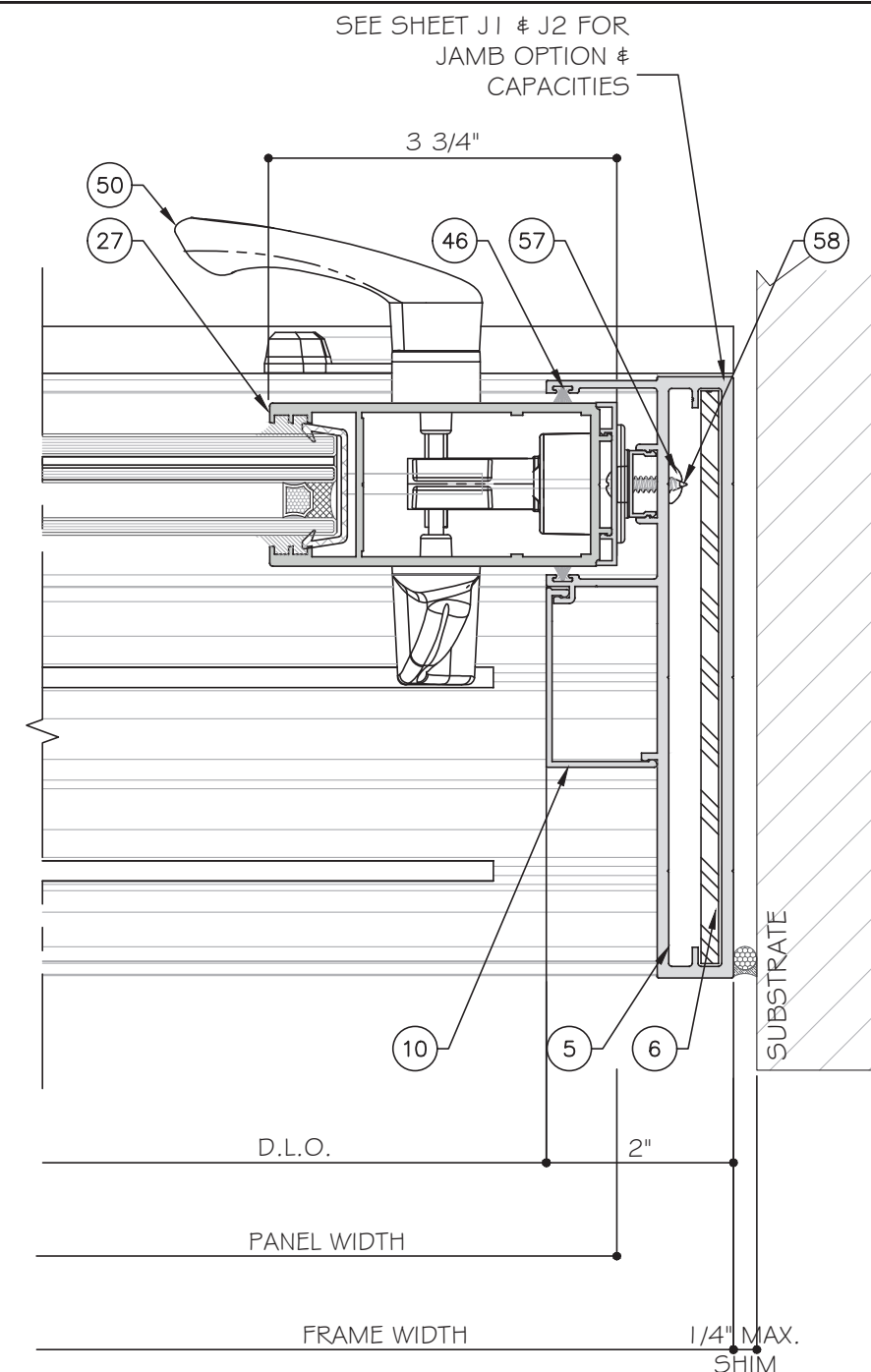


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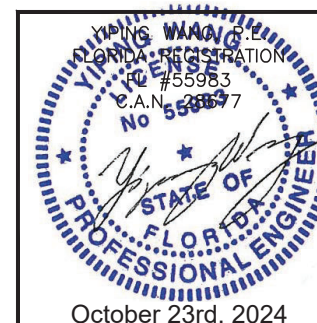
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DETAIL

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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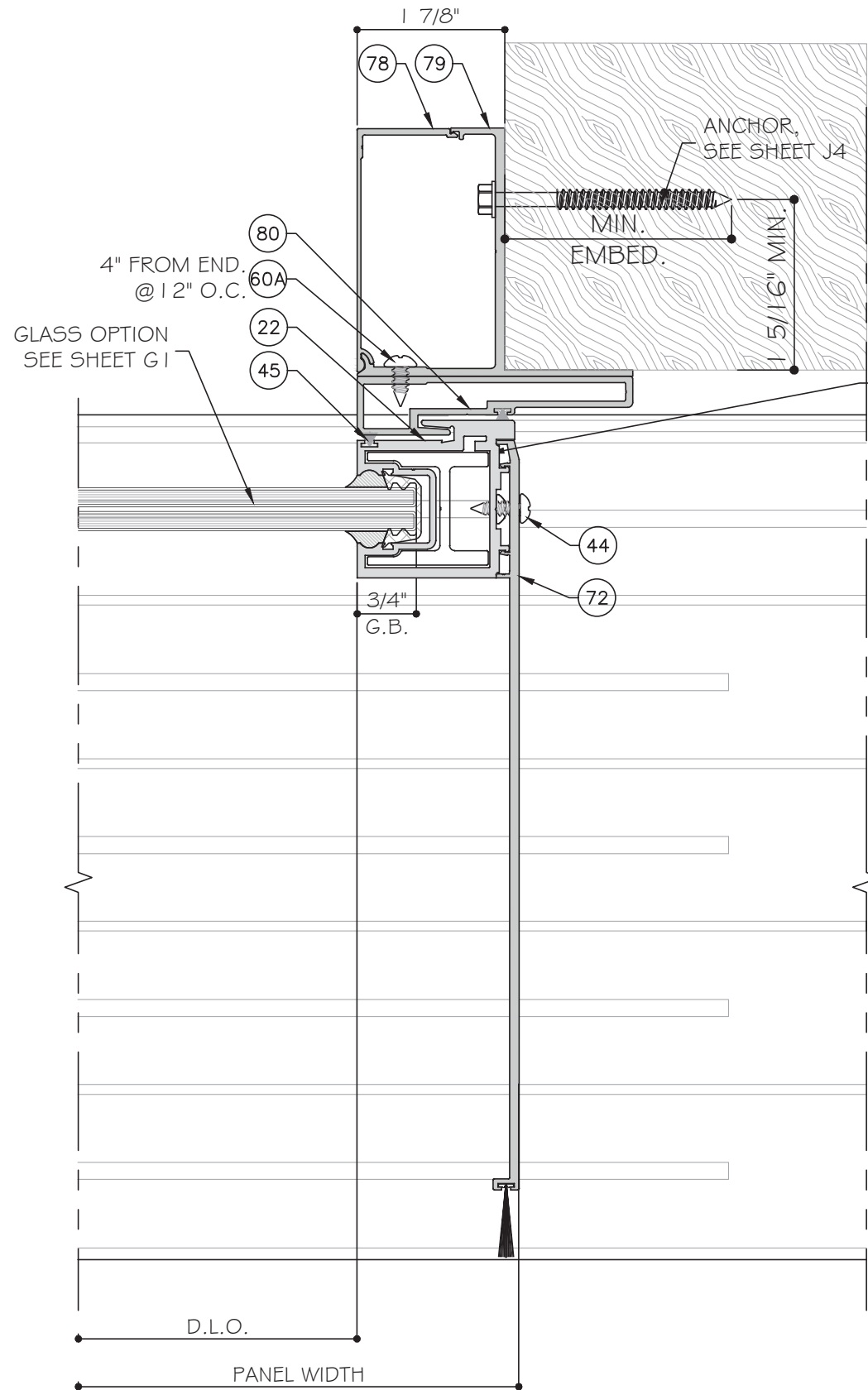
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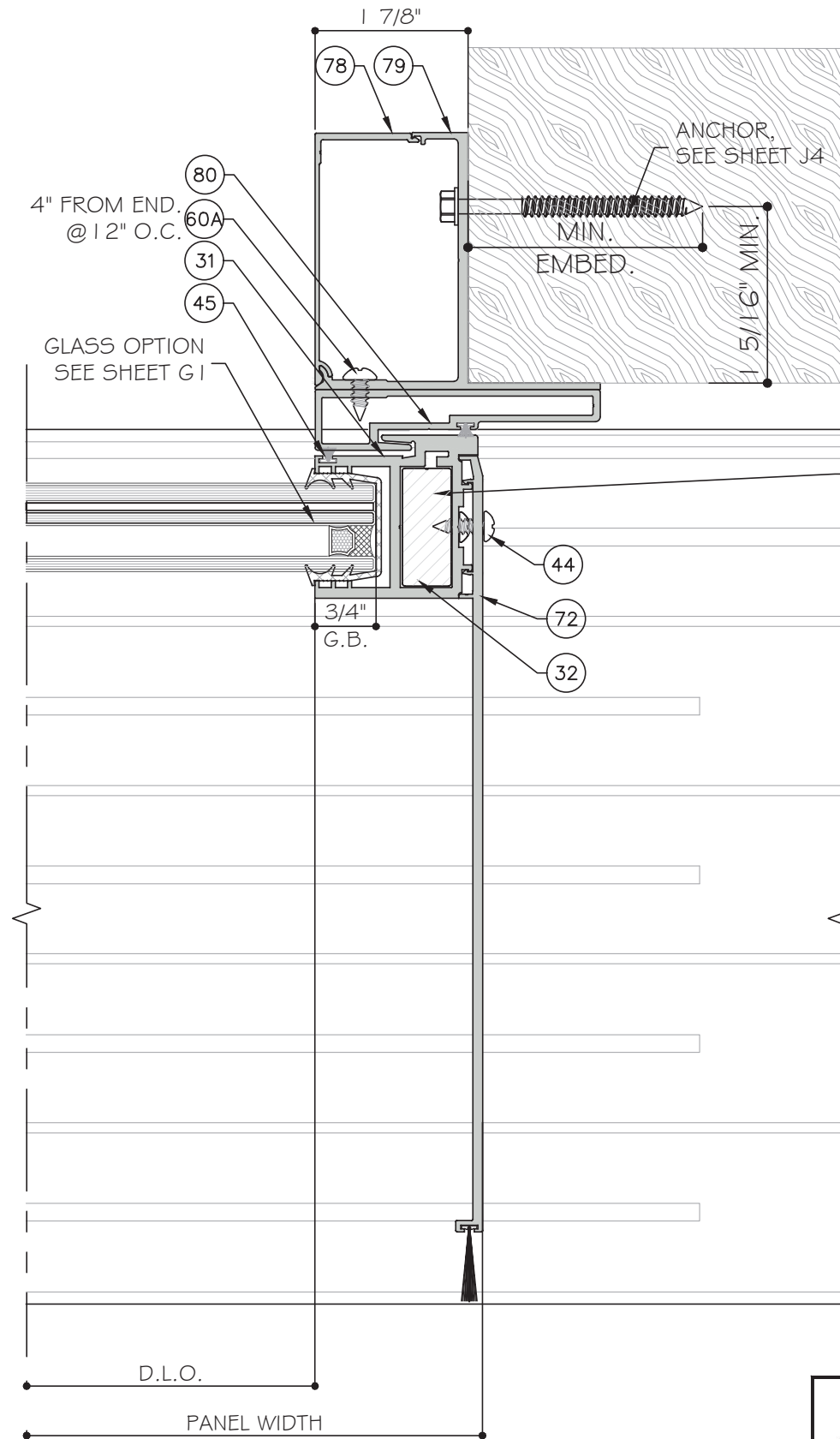
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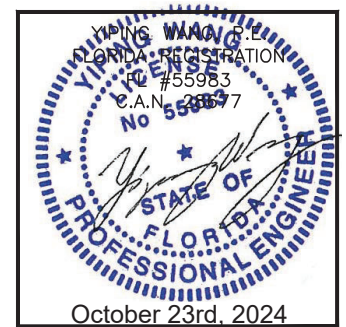


30A DETAIL
D12A



30A DETAIL
D12A OPTION

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



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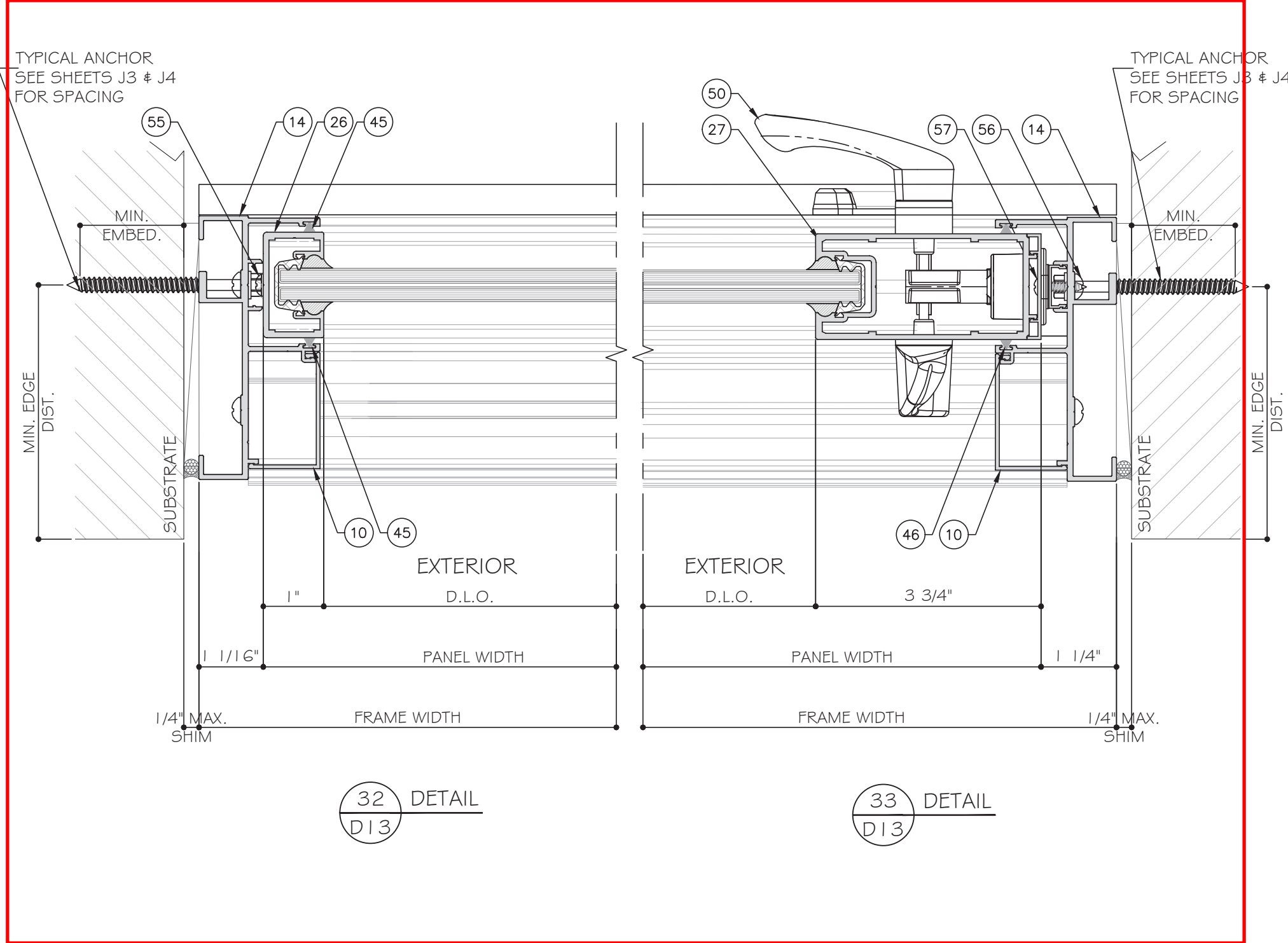
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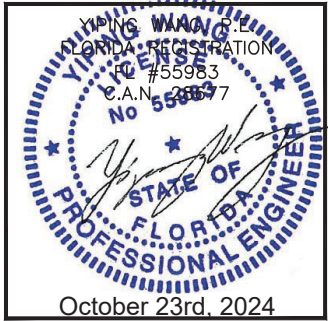
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
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TWO (2) TRACK DOOR DETAILS



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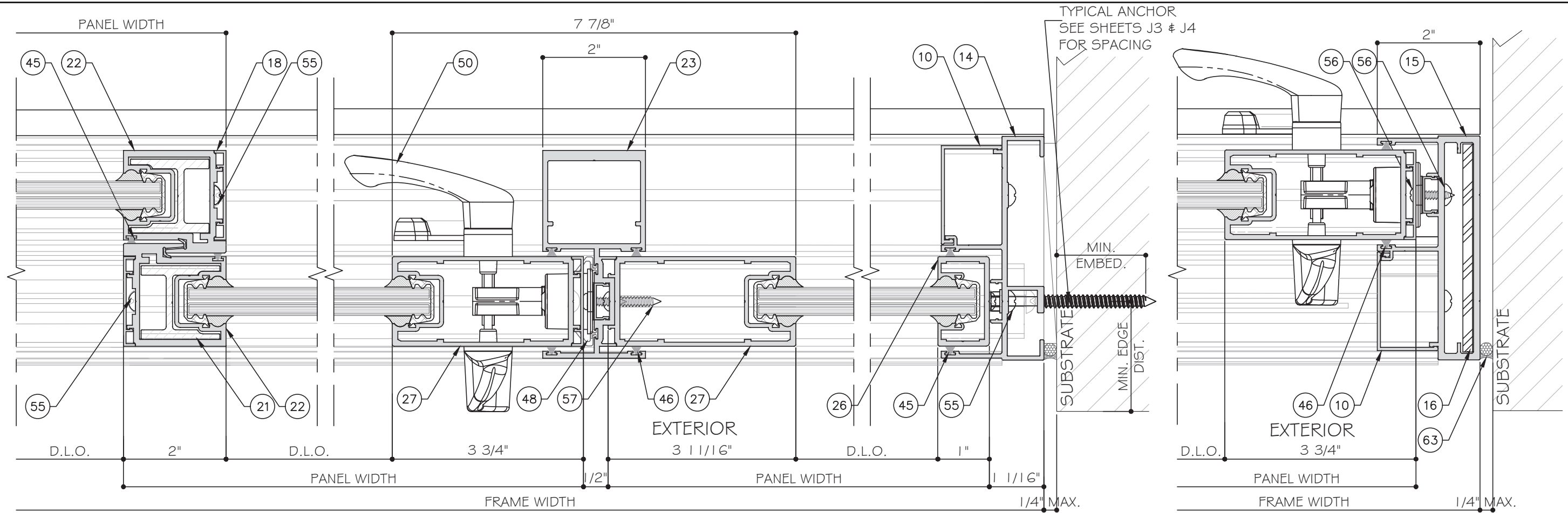
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35 DETAIL
D14

36 DETAIL
D14

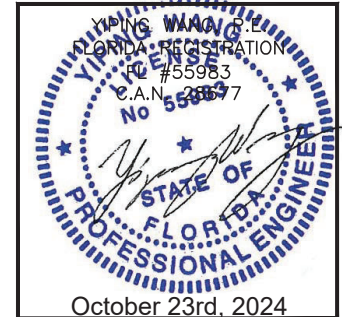
37 DETAIL
D14

FREESTANDING JAMB OPTION

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

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TWO (2) TRACK DOOR DETAILS



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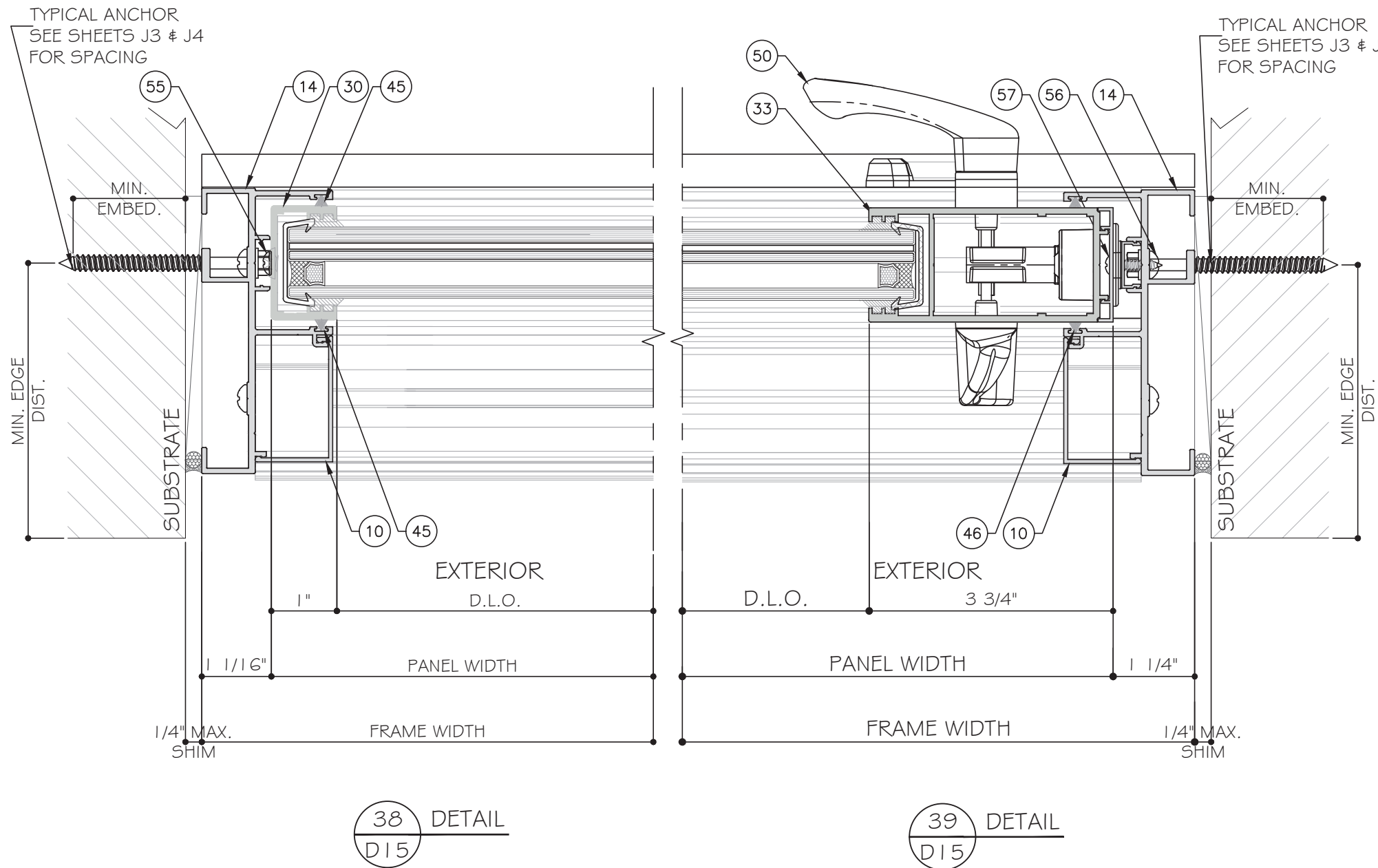
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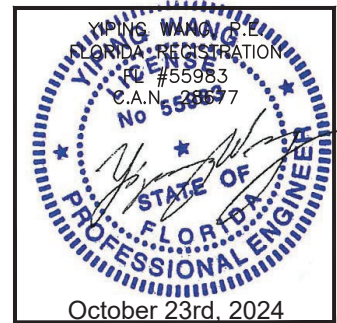
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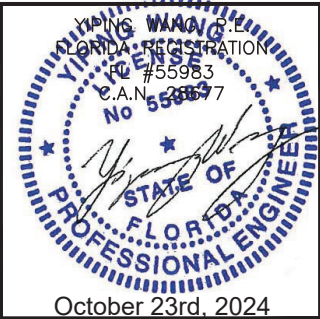
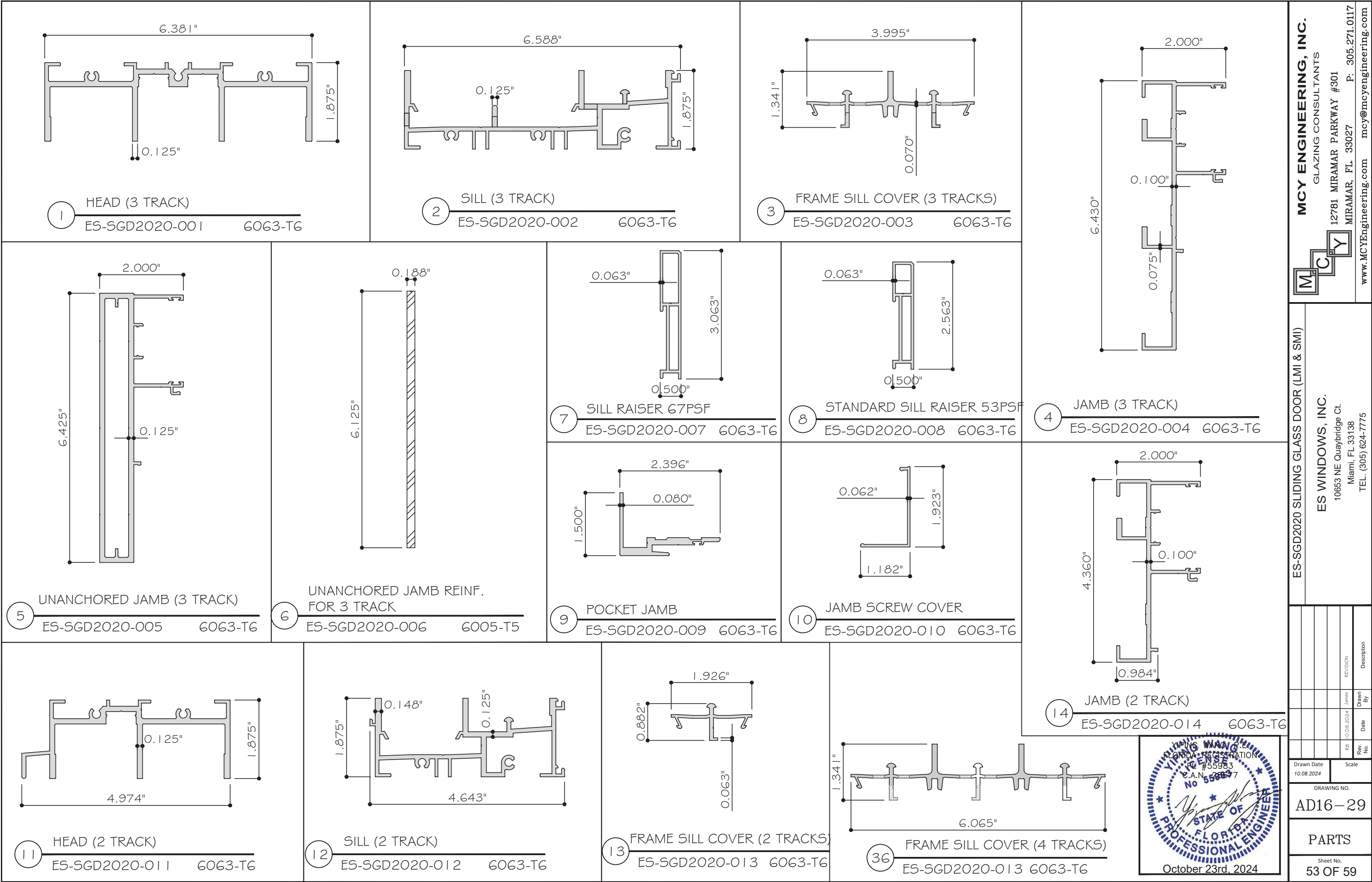


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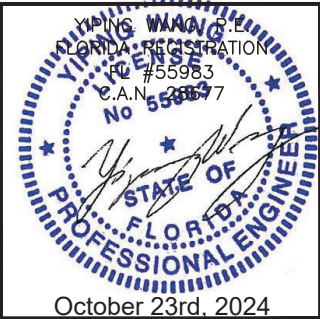
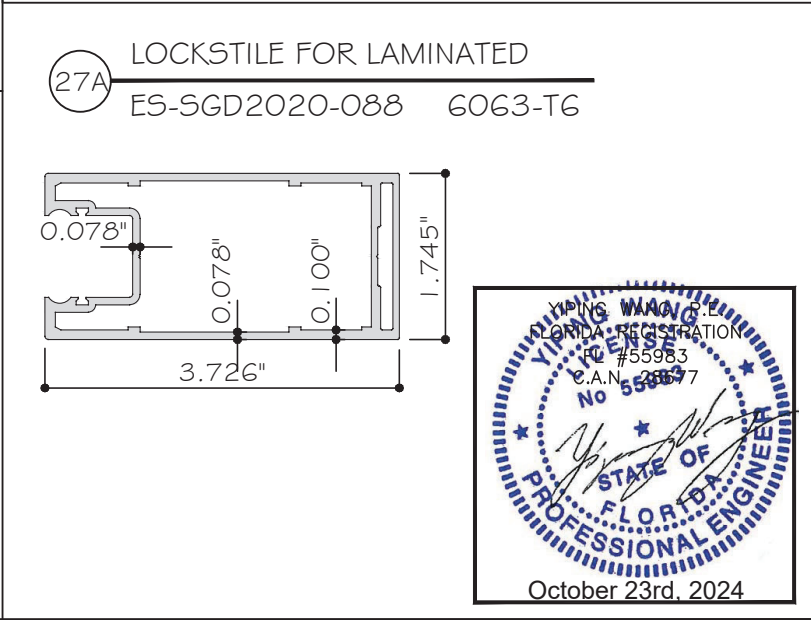
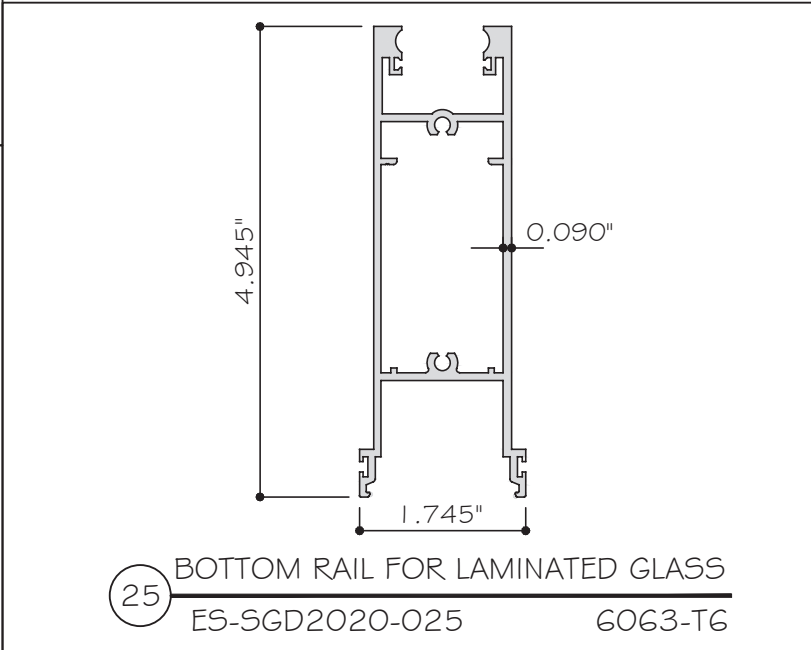
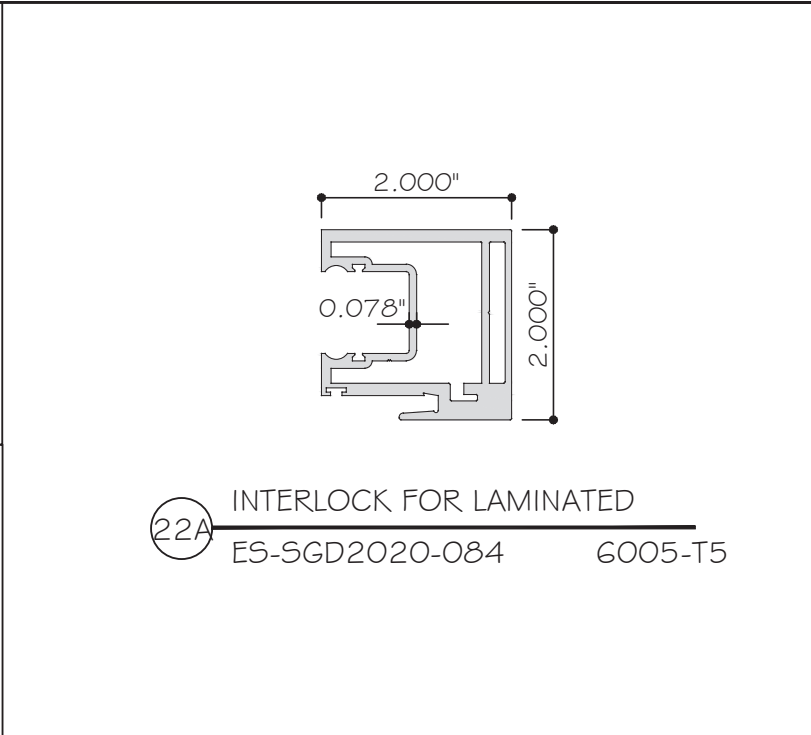
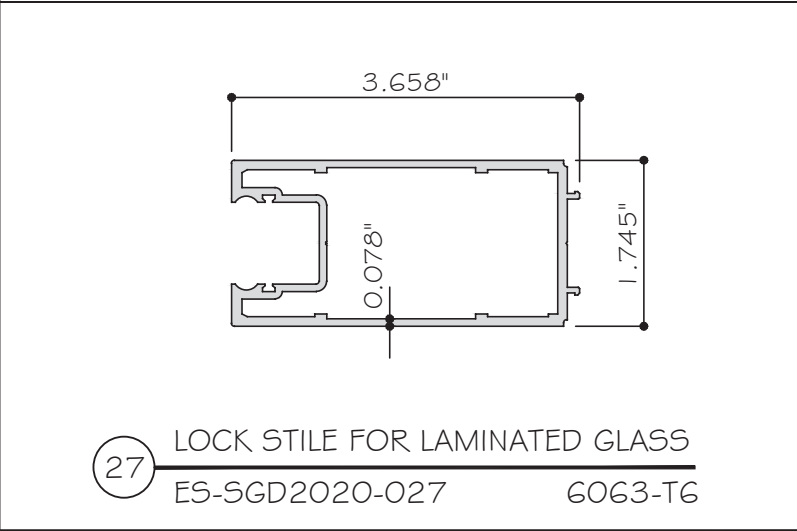
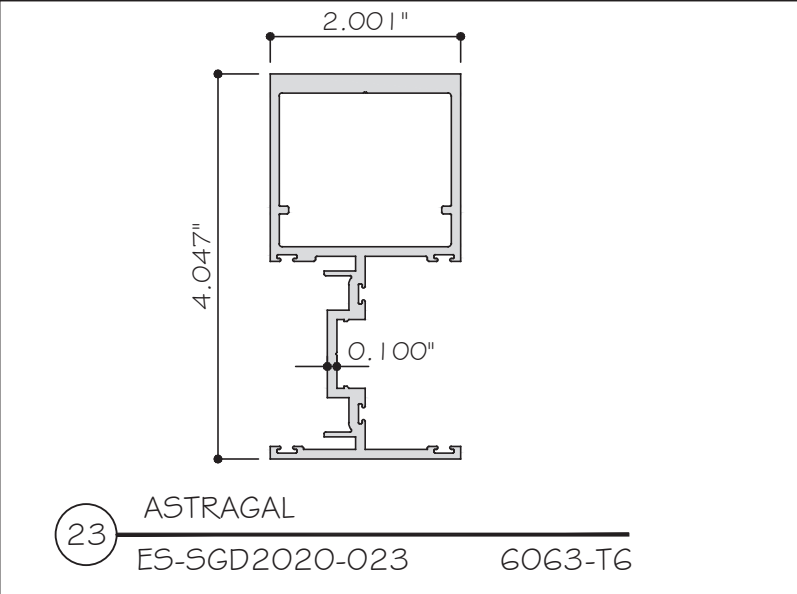
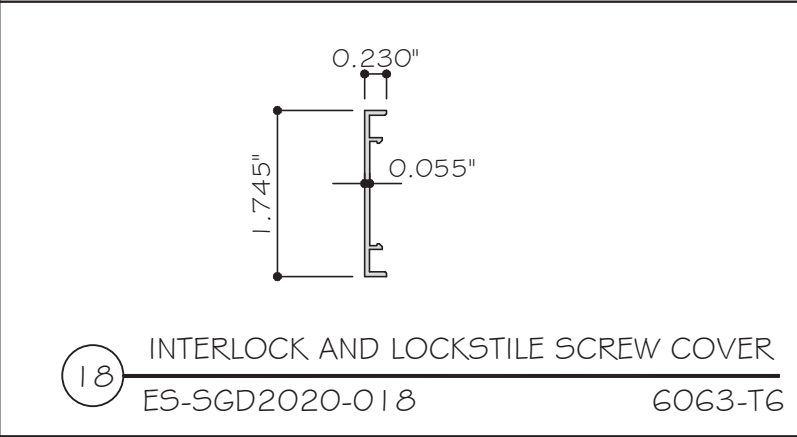
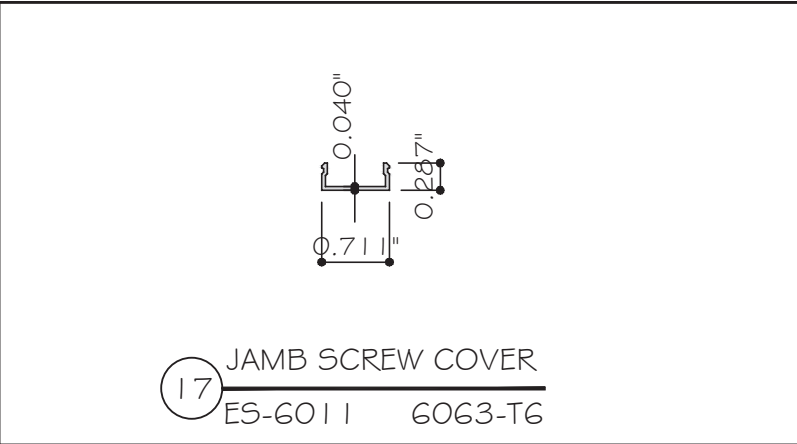
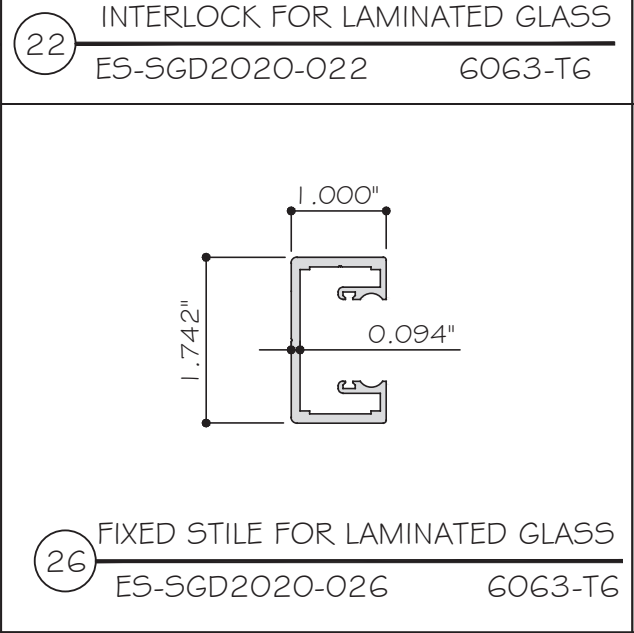
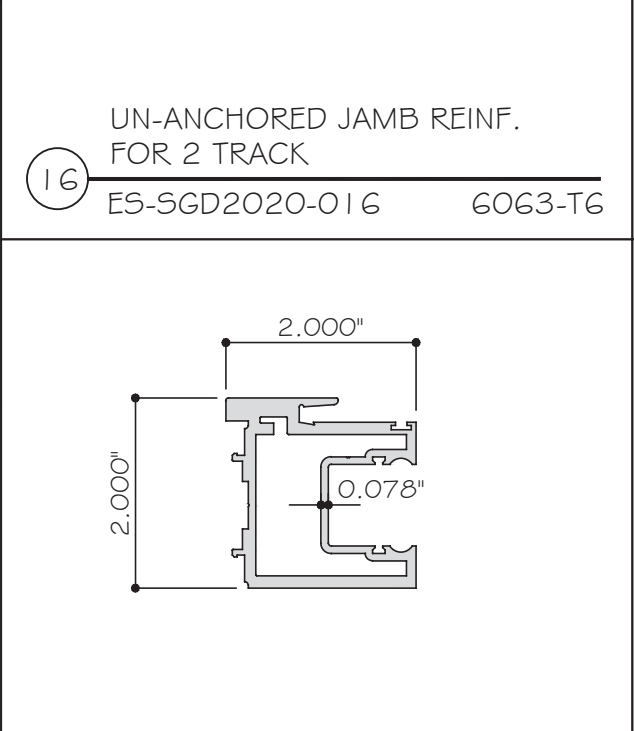
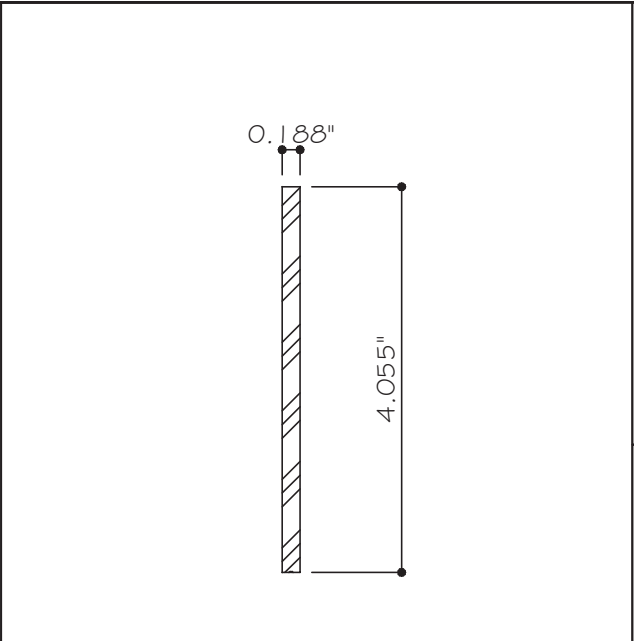
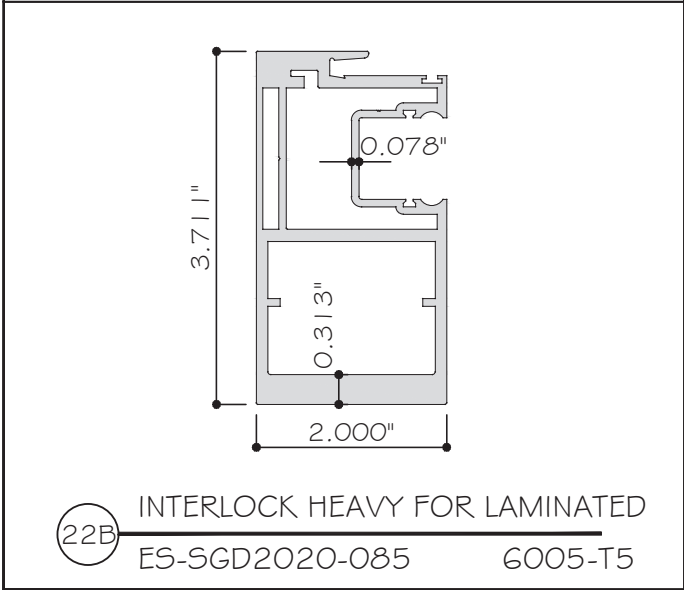
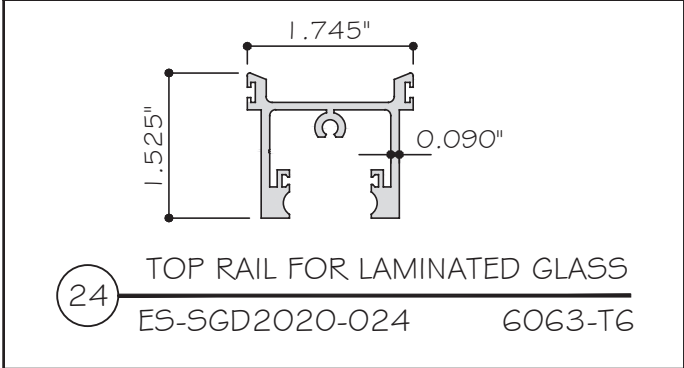
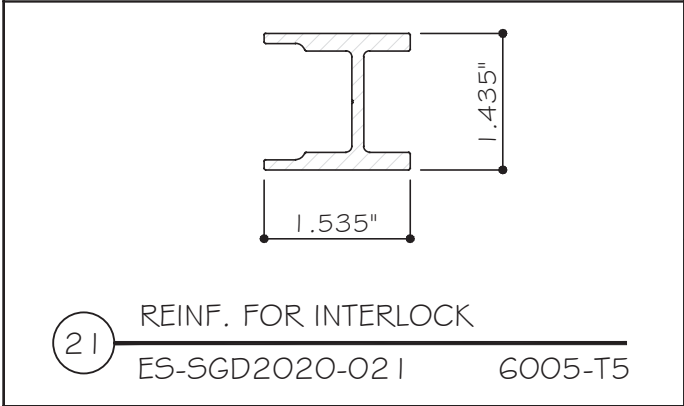
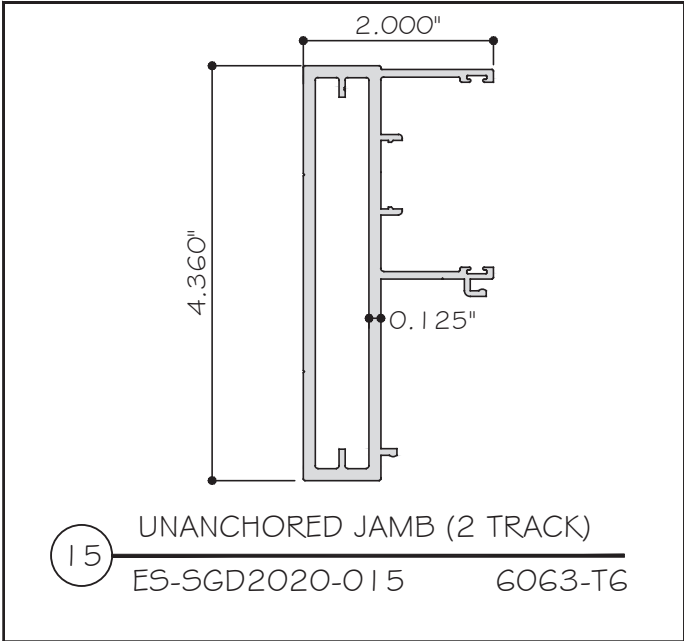
TWO (2) TRACK DOOR DETAILS



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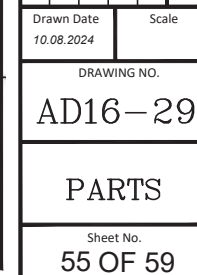
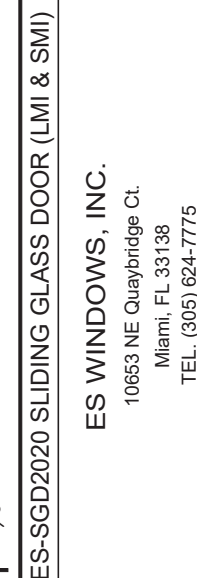
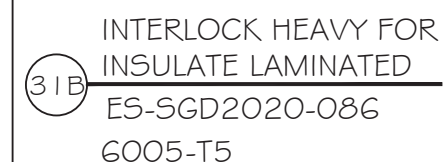
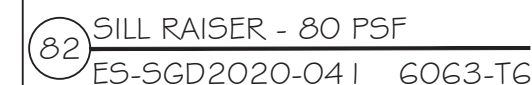
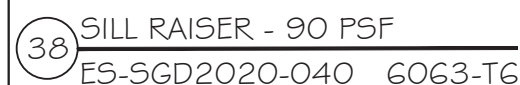


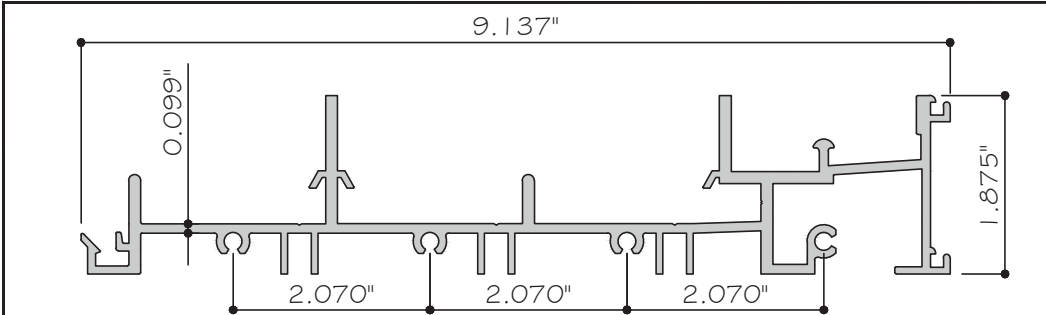
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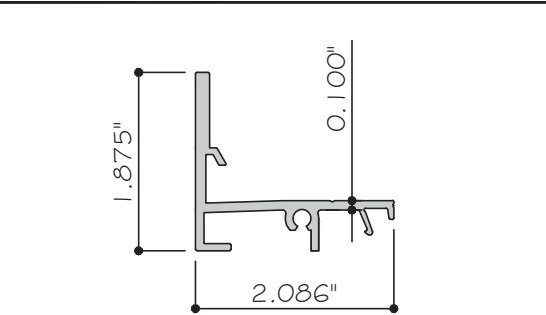
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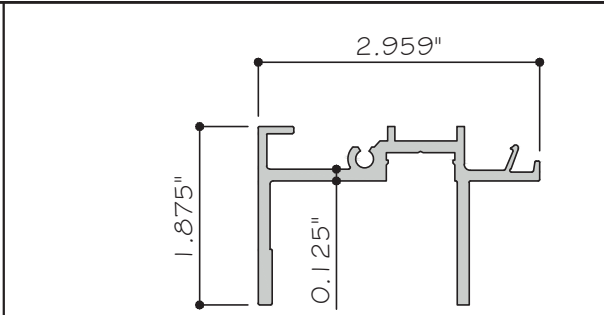




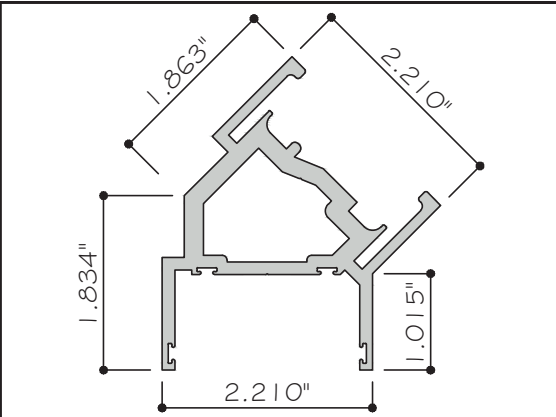
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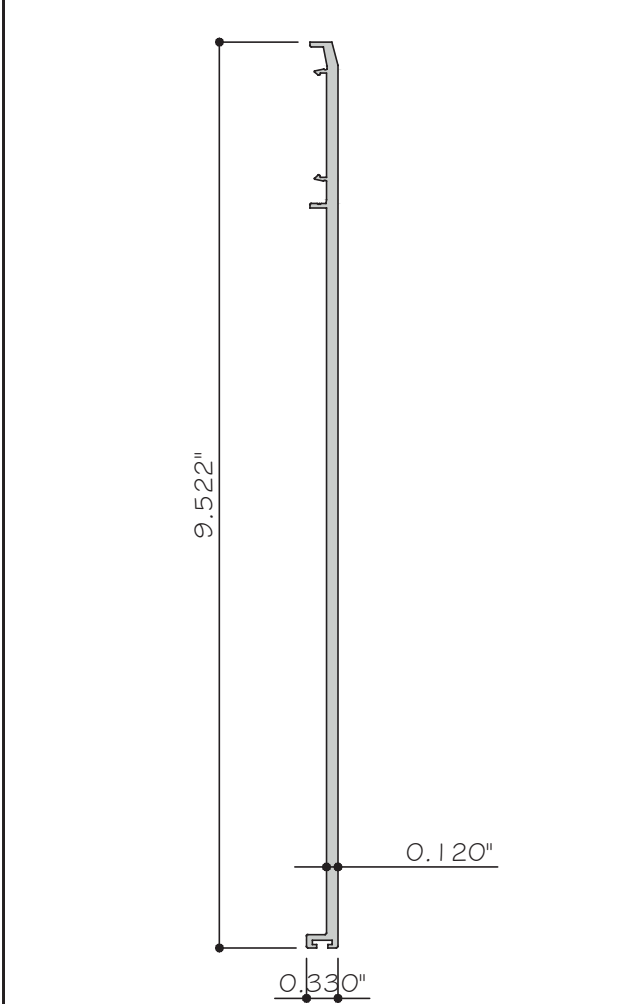
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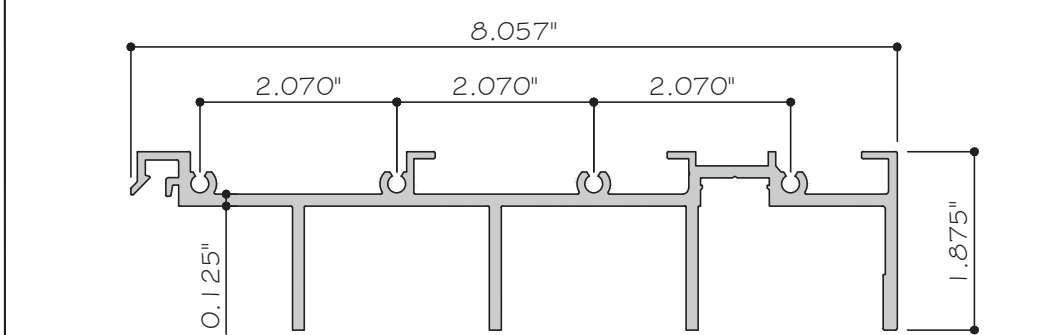
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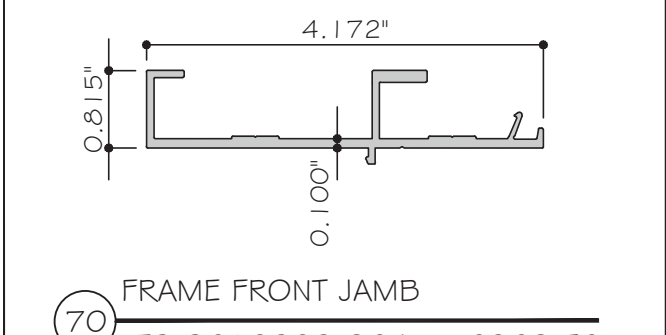
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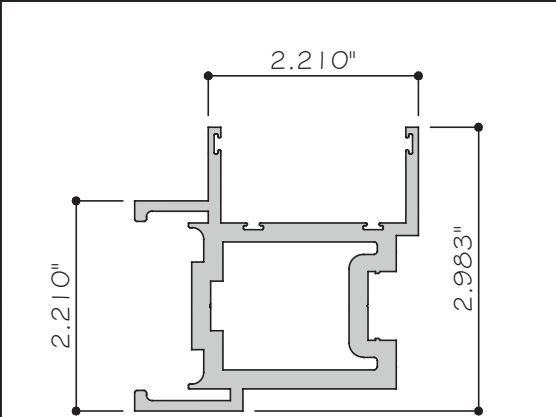
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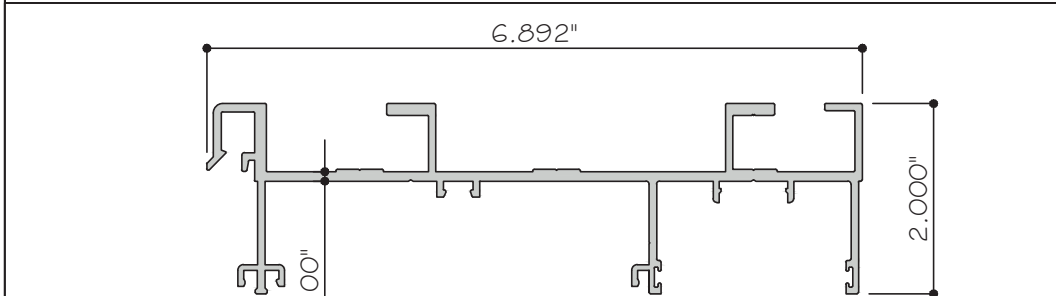
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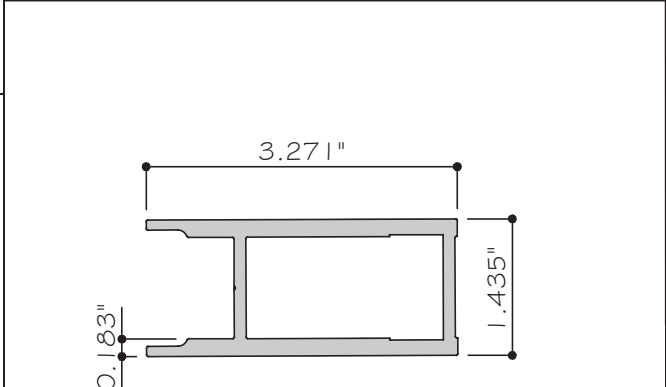
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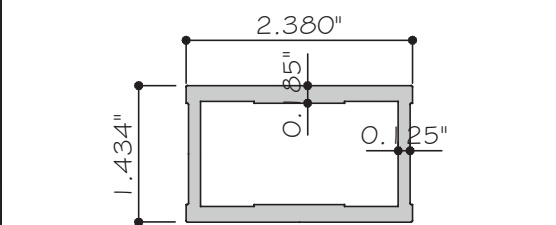
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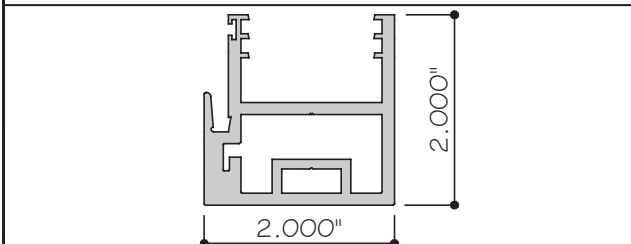
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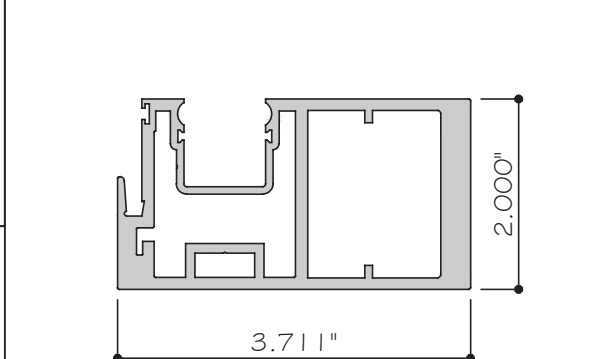
74 REINF. FOR LOCK STILE LAM. GLASS
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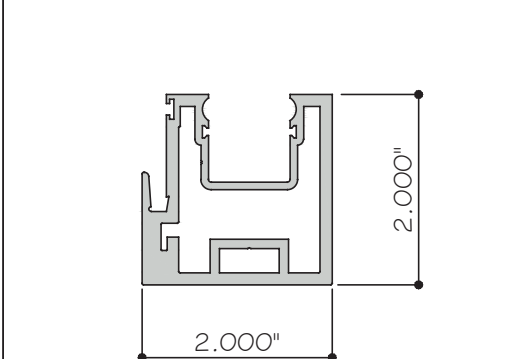
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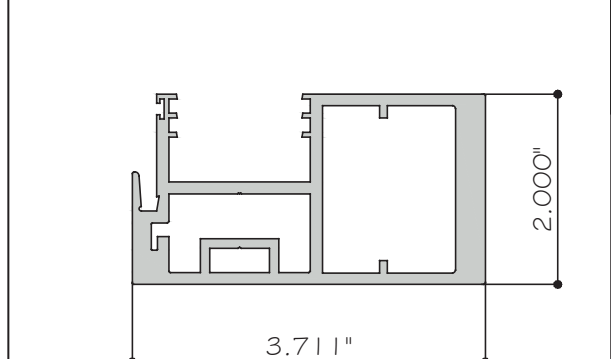
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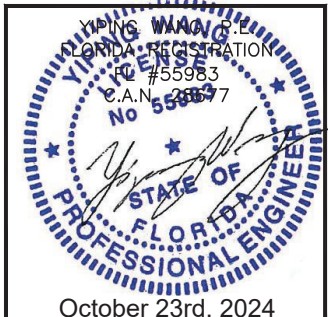
84A INTERLOCK HEAVY FOR LAMINATED GLASS
ES-SGD2020-084A 6005-T5



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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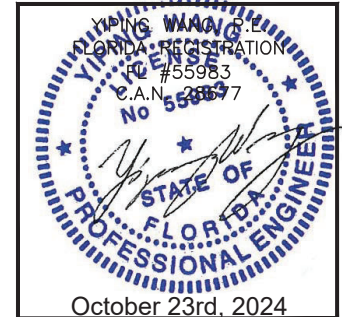
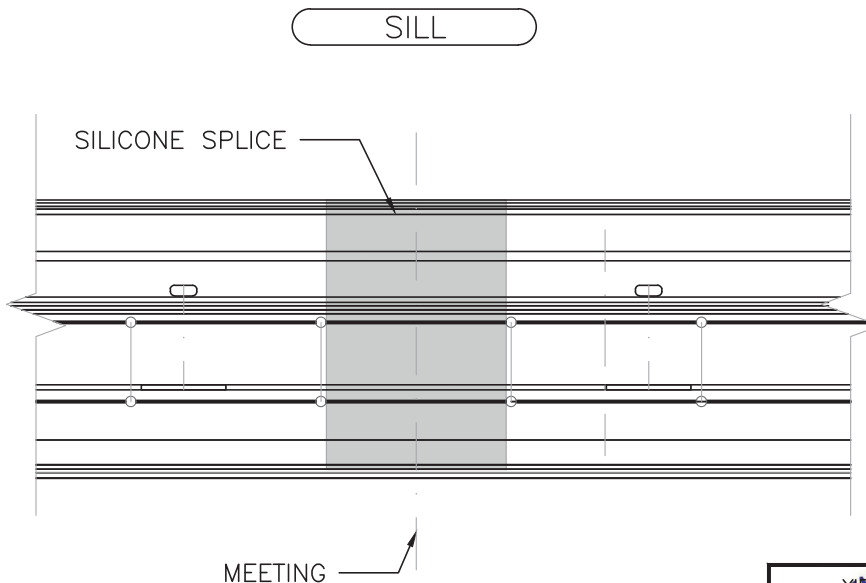
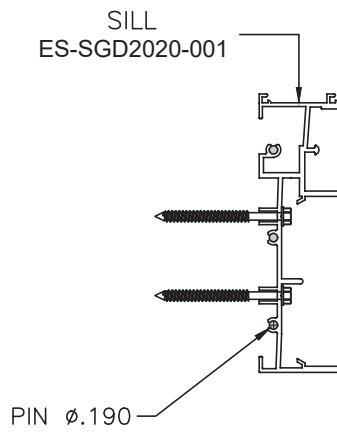
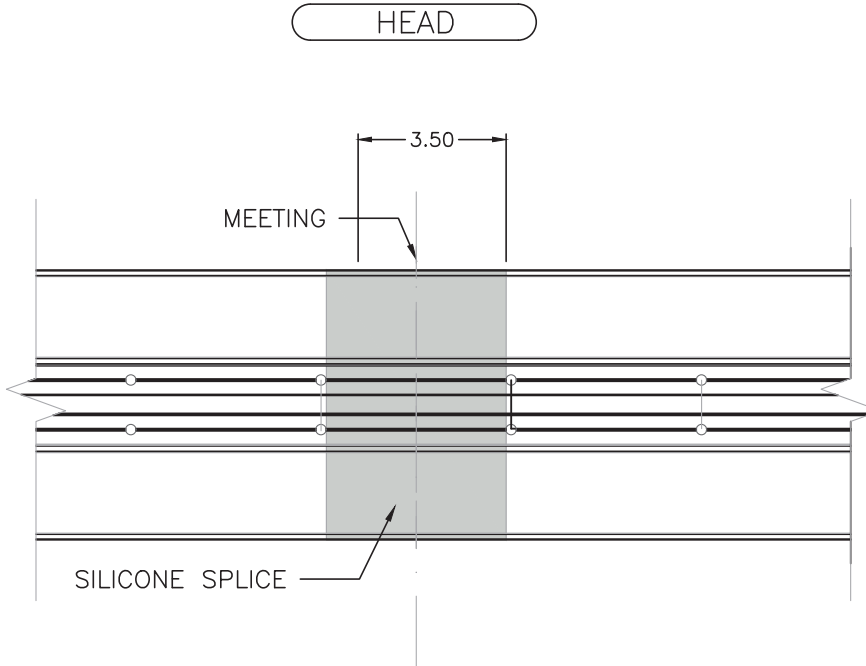
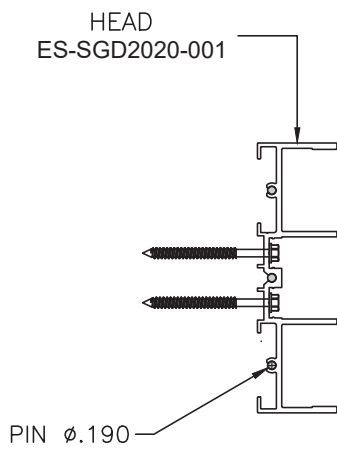
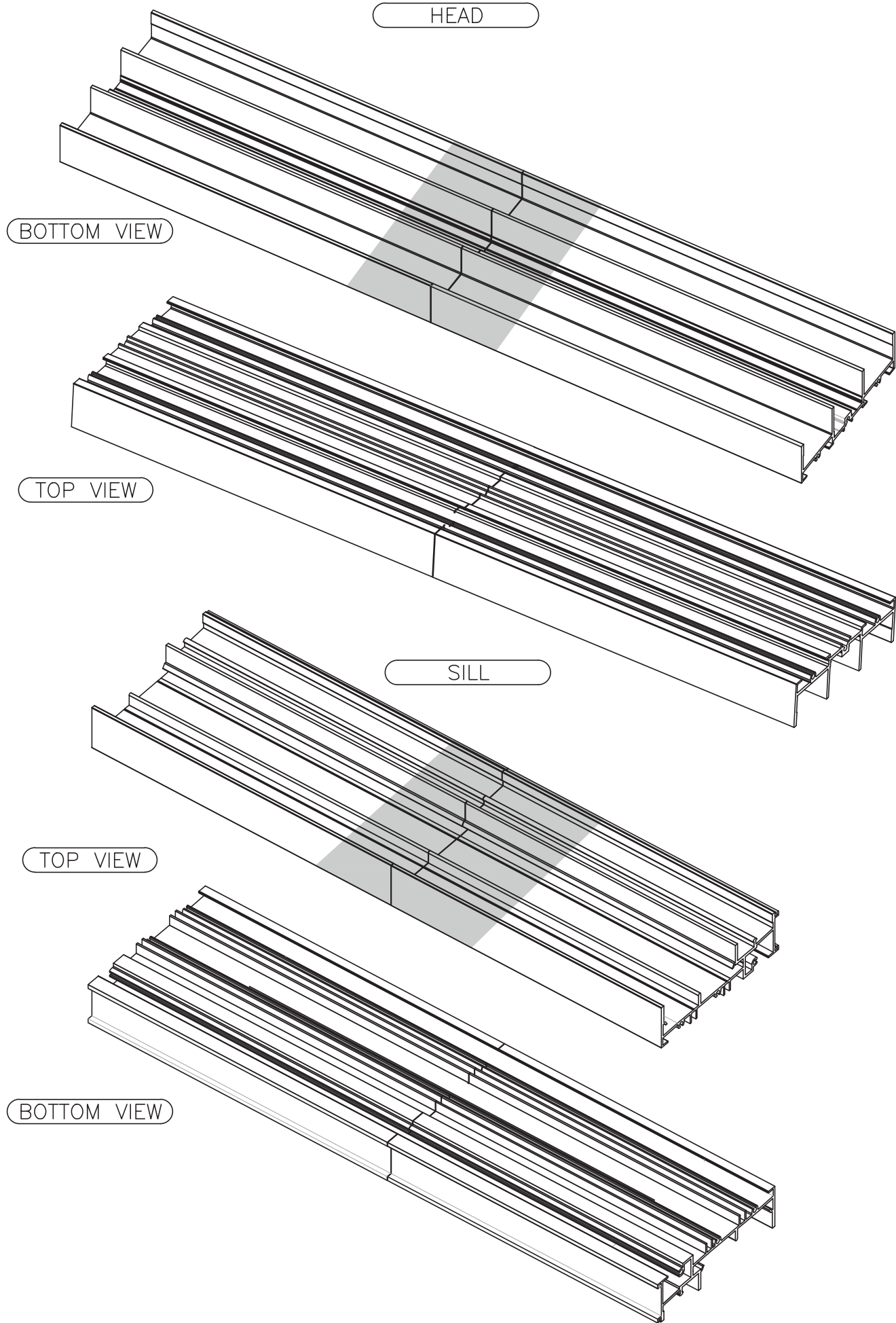
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PARTS

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56 OF 59



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Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	

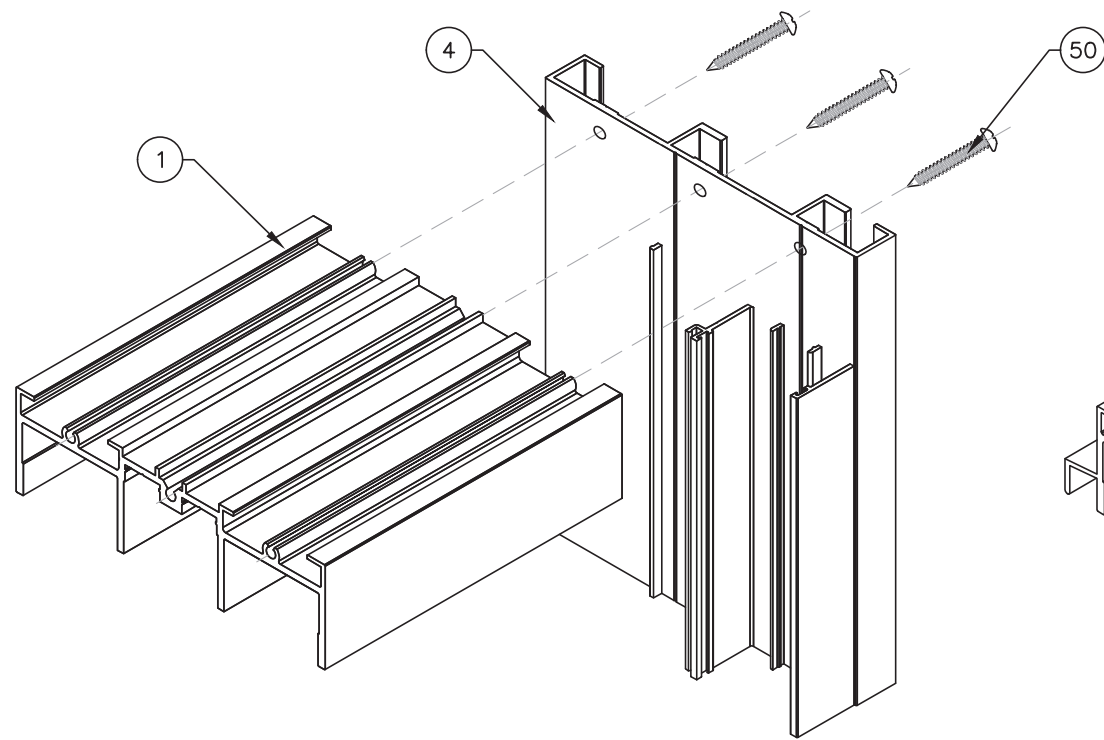
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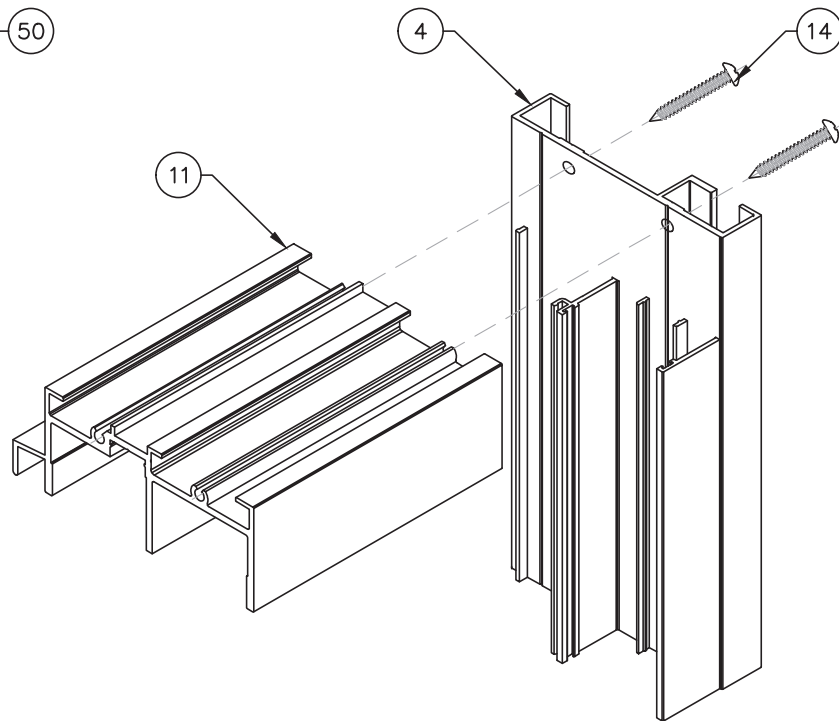
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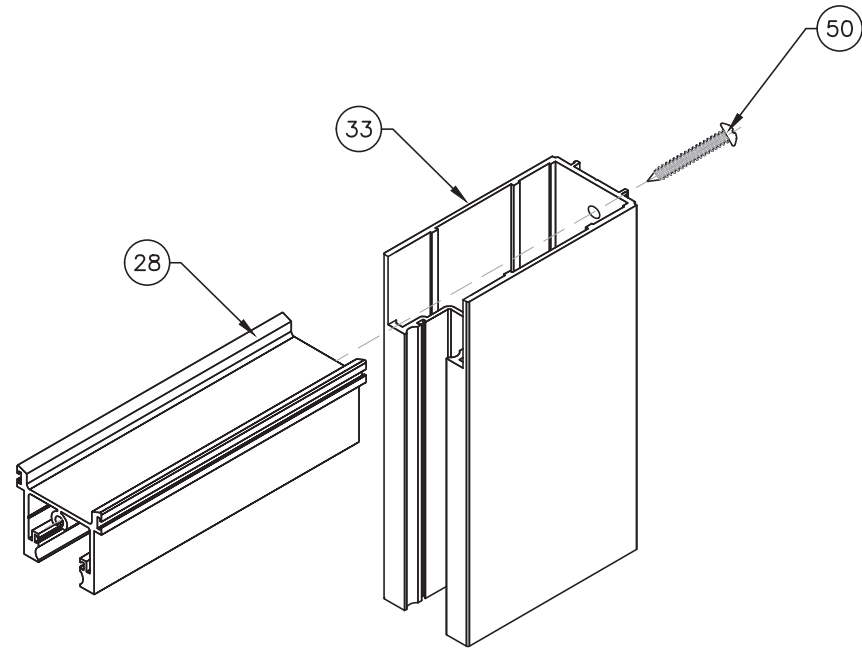
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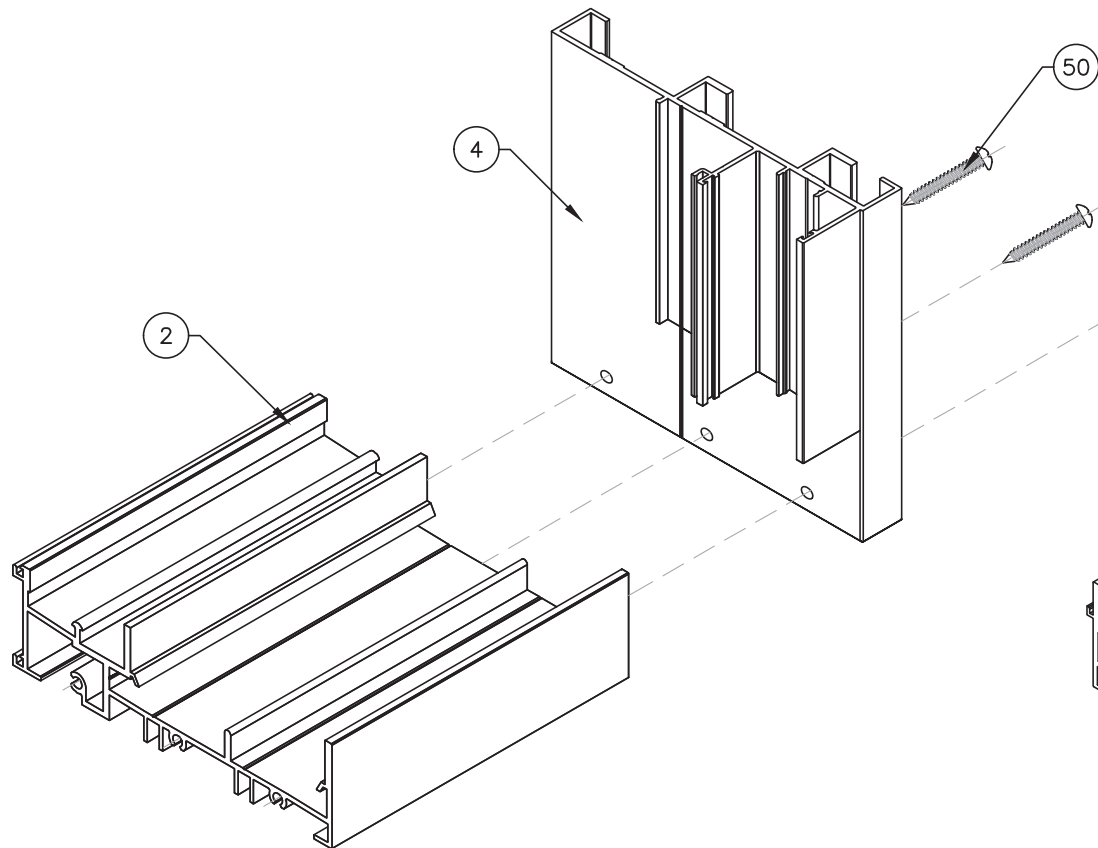
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3 TRACK SHOWN



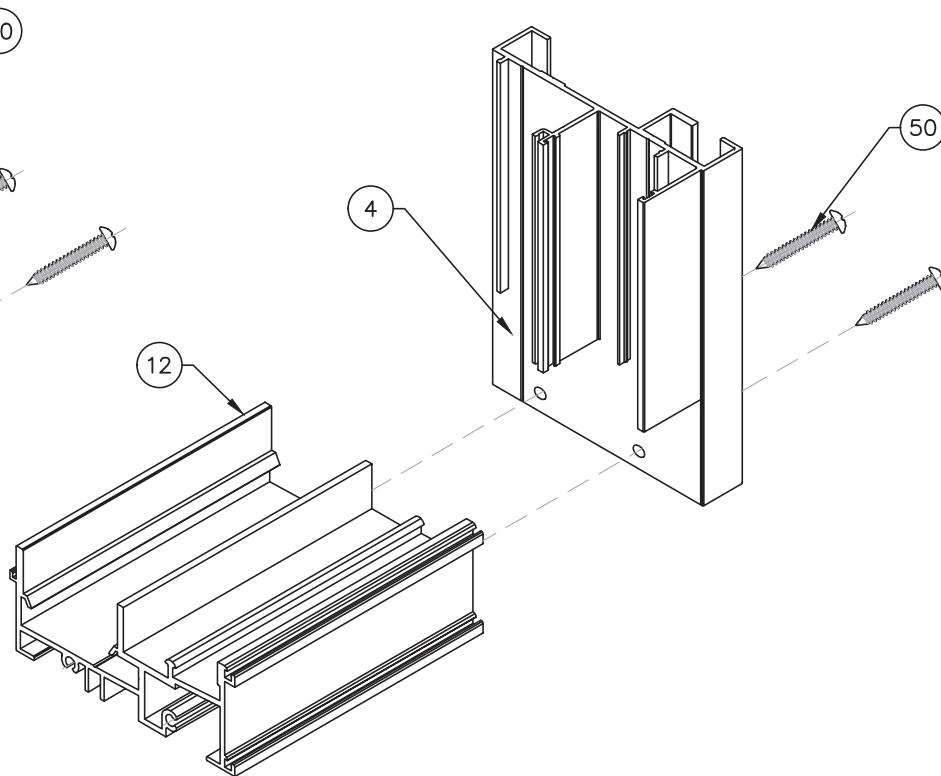
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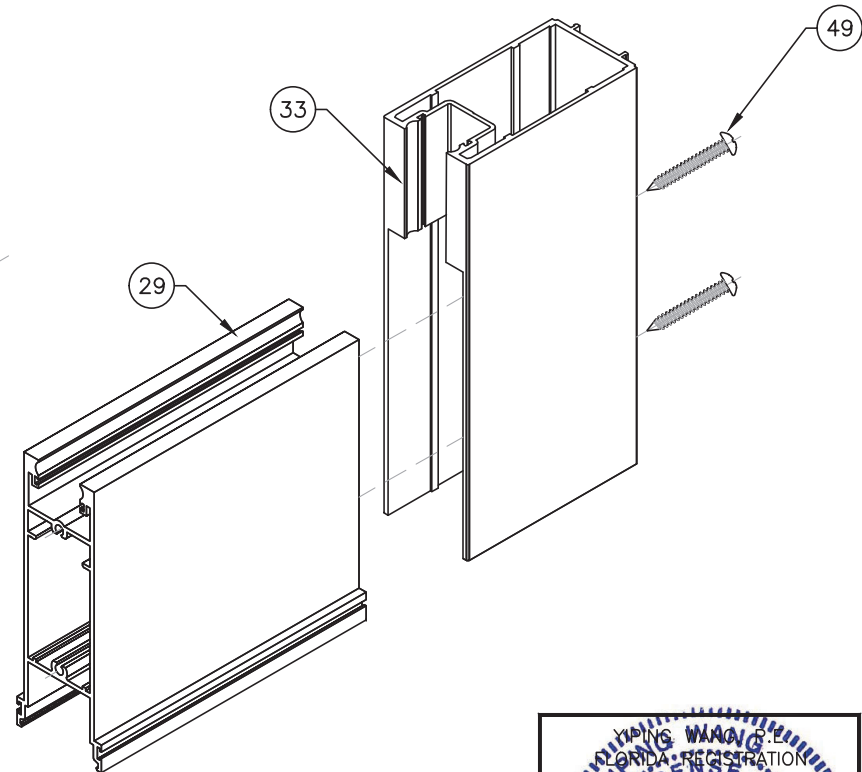
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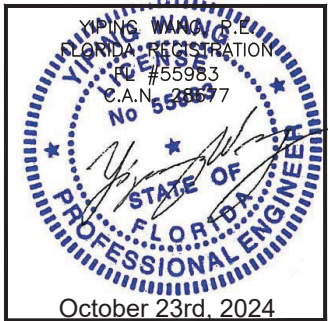
FRAME BOTTOM CORNER
3 TRACK SHOWN



FRAME BOTTOM CORNER
2 TRACK SHOWN



PANEL BOTTOM CORNER



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Sheet No. 59 OF 59			

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