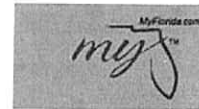


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Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

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)

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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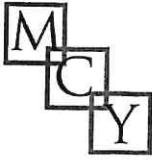
Under Florida law, email addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact the office by phone or by traditional mail. If you have any questions, please contact 850.487.1395. *Pursuant to Section 455.275(1), Florida Statutes, effective October 1, 2012, licensees licensed under Chapter 455, F.S. must provide the Department with an email address if they have one. The emails provided may be used for official communication with the licensee. However email addresses are public record. If you do not wish to supply a personal address, please provide the Department with an email address which can be made available to the public. To determine if you are a licensee under Chapter 455, F.S., please click [here](#).

Product Approval Accepts:



Credit Card
Safe





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

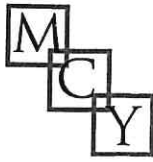
Product Description: Product Approval Drawing #AD16-29, prepared by MCY Engineering, signed and sealed by Yiping Wang, P.E., is an integral part of this Evaluation Report.

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



MCY ENGINEERING, INC.
GLAZING CONSULTANT

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Office: (305) 271-0117

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	BT-ESW-18-002, <i>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	FTL-12390 <i>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	BT-ESW-16-010, <i>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	BT-ESW-23-003, <i>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.

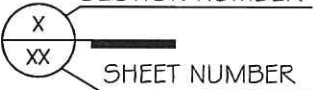
MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN
ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY
WITH SECTION 1709.9.2.

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 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	



FL #22267

LIMITATIONS OF USE

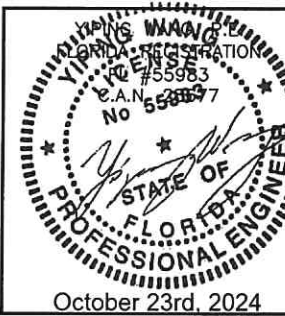
A. THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT. I.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

B. CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HERE/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.



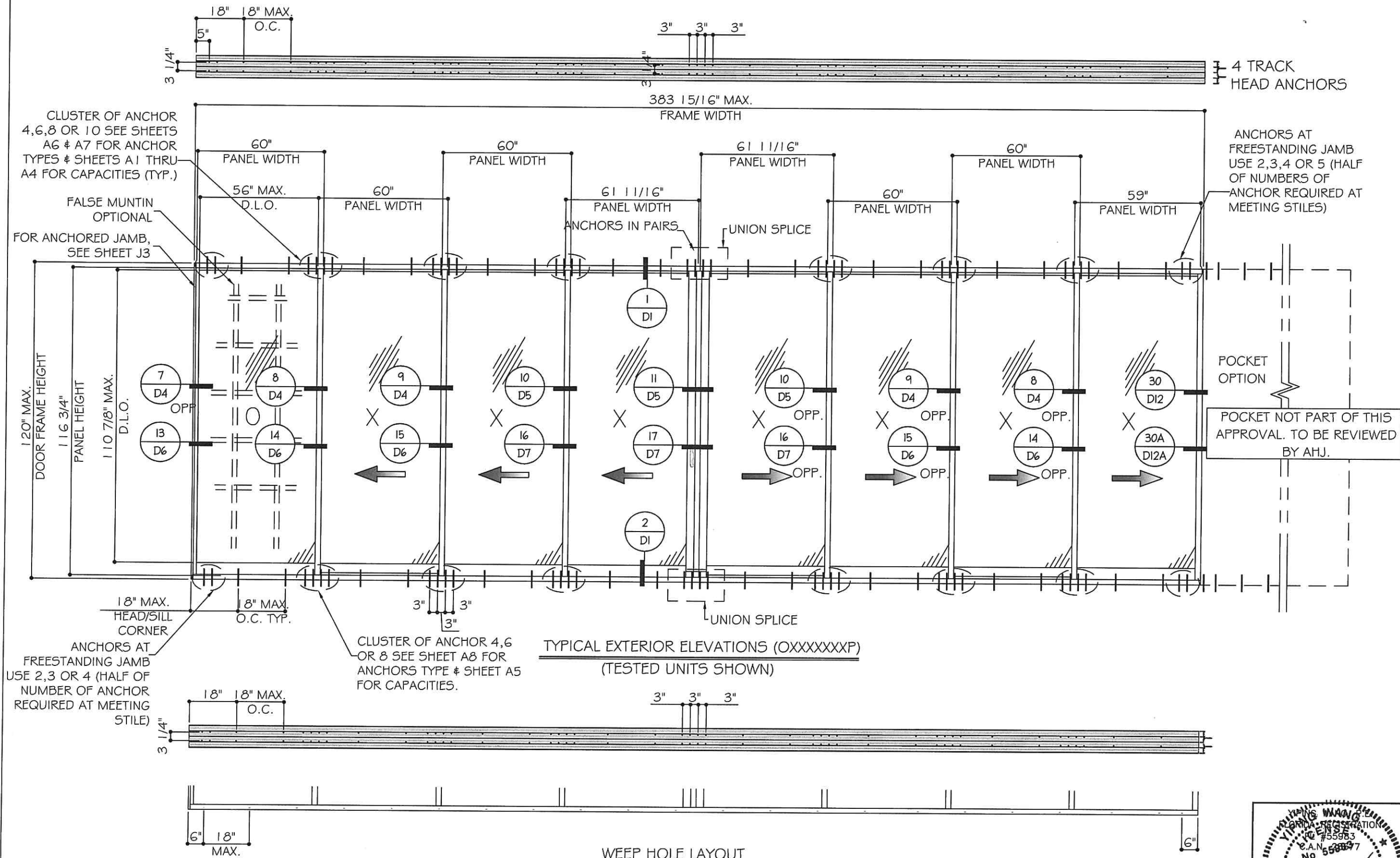
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR, FL 33027
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

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

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

Rev	Date	By	Description
1	10.08.2024	James	

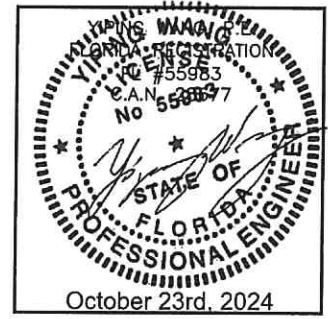
Drawn Date: 10.08.2024
Scale: AS SHOWN
DRAWING NO.: AD16-29
COVER
Sheet No.: 01 OF 59



TYPICAL EXTERIOR ELEVATIONS (OXXXXXXXP)
(TESTED UNITS SHOWN)

WEEP HOLE LAYOUT

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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www.mcyengineering.com

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

Rev.	Date	Drawn By	Description
1	10.08.2024	James	REVISION

Drawn Date: 10.08.2024

Scale:

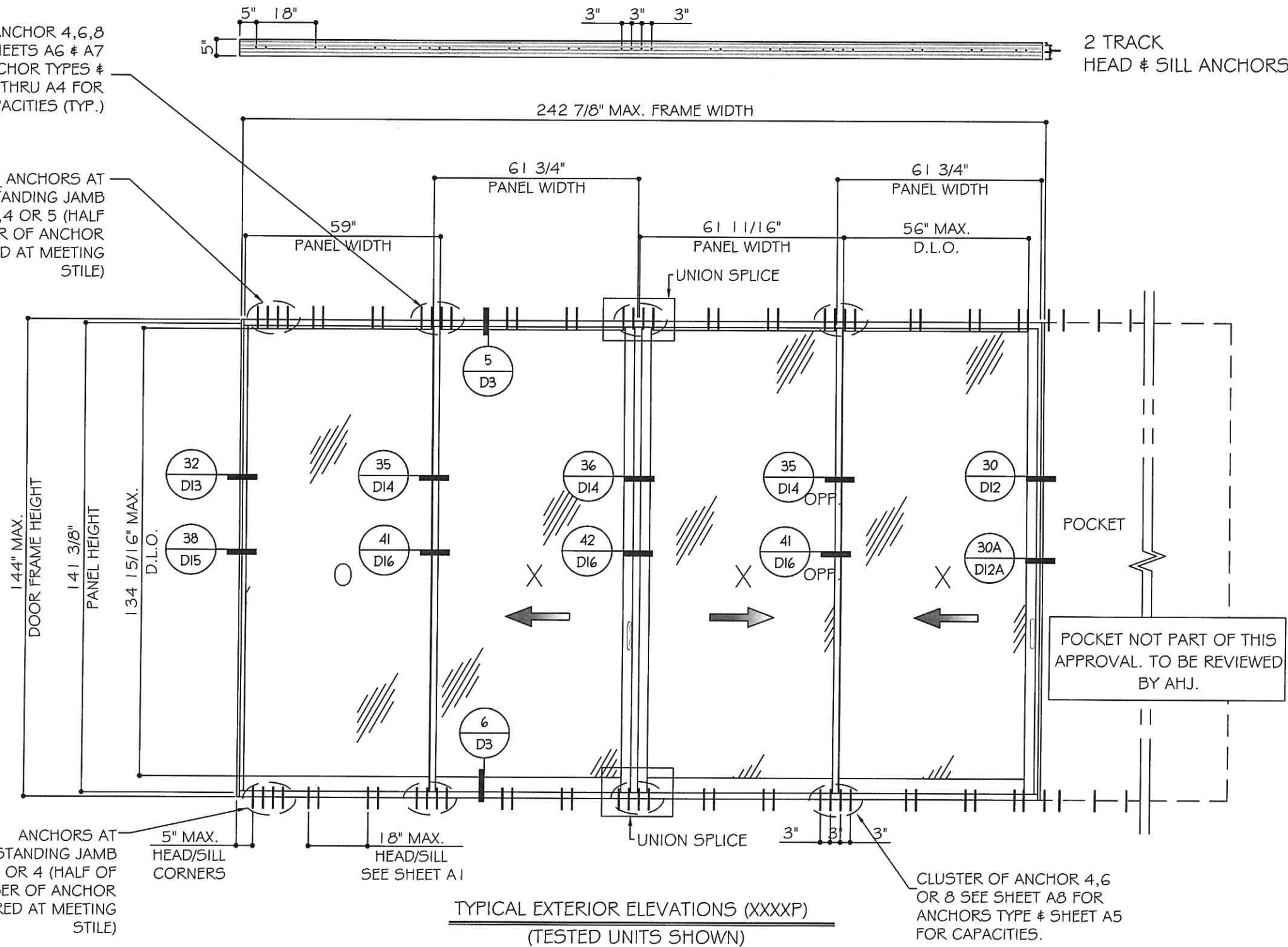
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E1

Sheet No. 02 OF 59

CLUSTER OF ANCHOR 4,6,8
OR 10 SEE SHEETS A6 & A7
FOR ANCHOR TYPES &
SHEETS A1 THRU A4 FOR
CAPACITIES (TYP.)

ANCHORS AT
FREESTANDING JAMB
USE 2,3,4 OR 5 (HALF
OF NUMBER OF ANCHOR
REQUIRED AT MEETING
STILE)



2 TRACK
HEAD & SILL ANCHORS

ANCHORS AT
FREESTANDING JAMB
USE 2,3 OR 4 (HALF OF
NUMBER OF ANCHOR
REQUIRED AT MEETING
STILE)

5" MAX.
HEAD/SILL
CORNERS

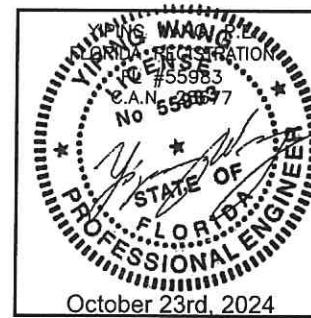
1 8" MAX.
HEAD/SILL
SEE SHEET A1

TYPICAL EXTERIOR ELEVATIONS (XXXXP)
(TESTED UNITS SHOWN)

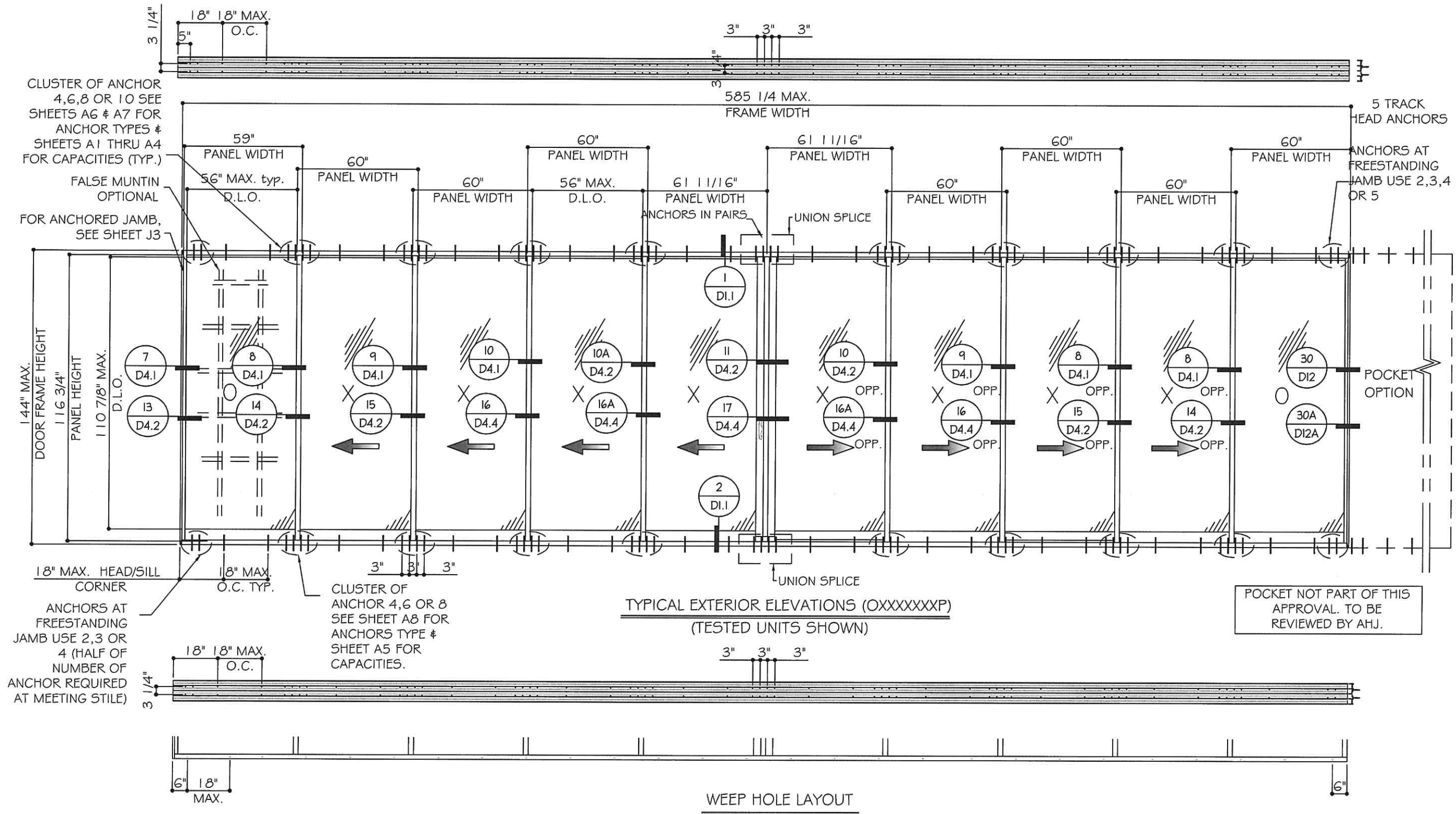
CLUSTER OF ANCHOR 4,6
OR 8 SEE SHEET A8 FOR
ANCHORS TYPE & SHEET A5
FOR CAPACITIES.

WEEP HOLE LAYOUT

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"

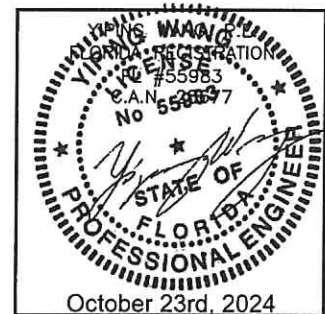


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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)	
ES WINDOWS, INC. 10653 NE Quaybridge Ct. Miami, FL 33138 TEL: (305) 624-7775	
Drawn Date 10.08.2024	Scale 1/8" = 1'-0"
Drawing No. AD16-29	Sheet No. 04 OF 59
E3	October 23rd, 2024



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

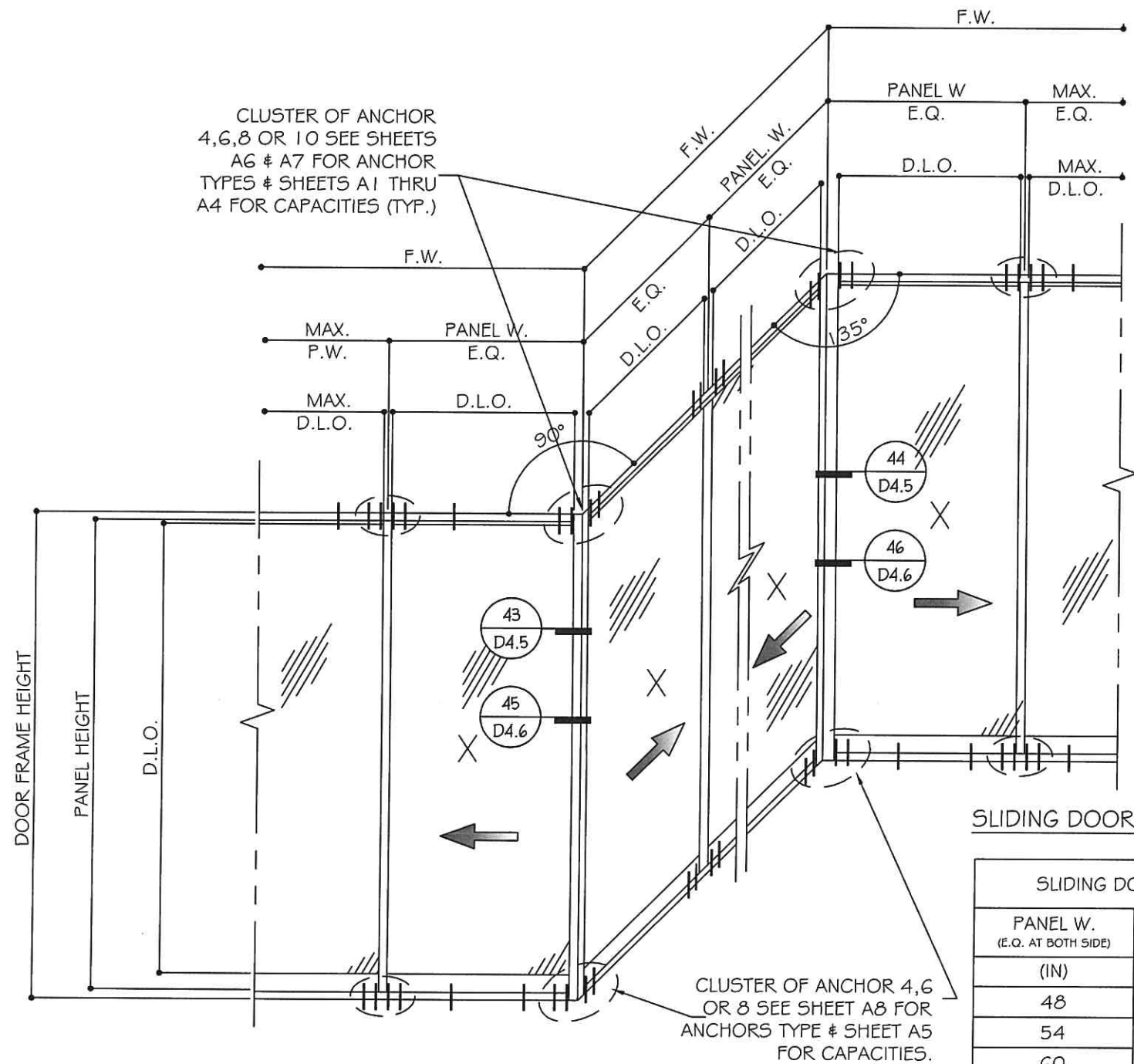


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Rev. No.	Date	Drawn By	Description
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DRAWING NO.
AD16-29
 E4
 Sheet No.
05 OF 59



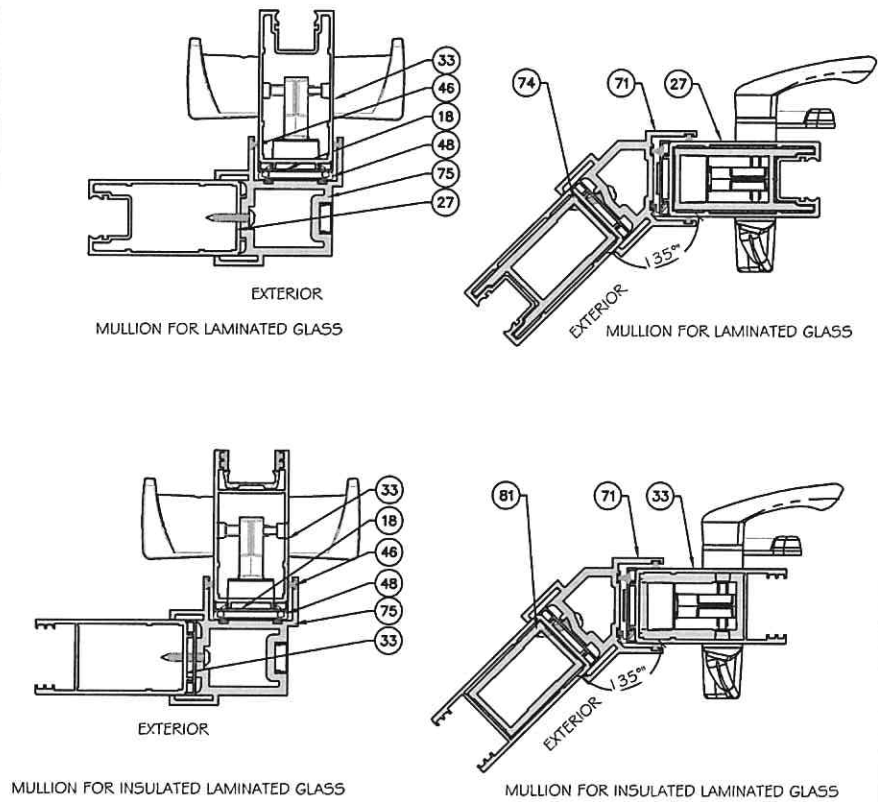
CORNER MULLIONS

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

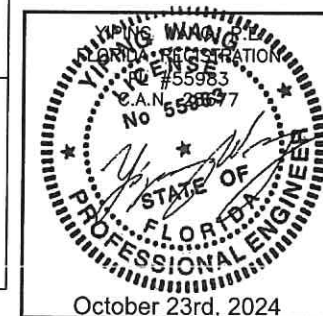
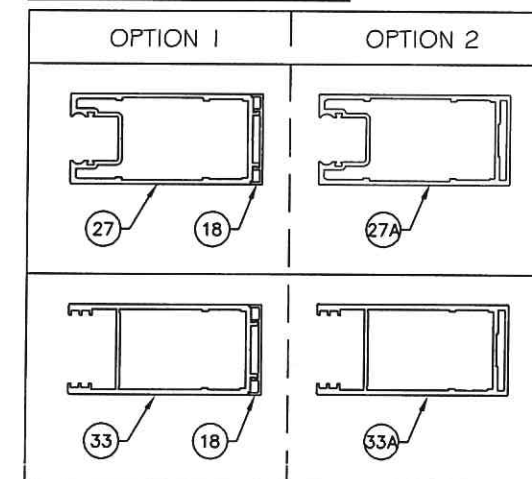
SLIDING DOOR WITH 90° & 135° TURN

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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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

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

Drawn Date
10.08.2024

Scale

DRAWING NO.
AD16-29

E5

Sheet No.
06 OF 59

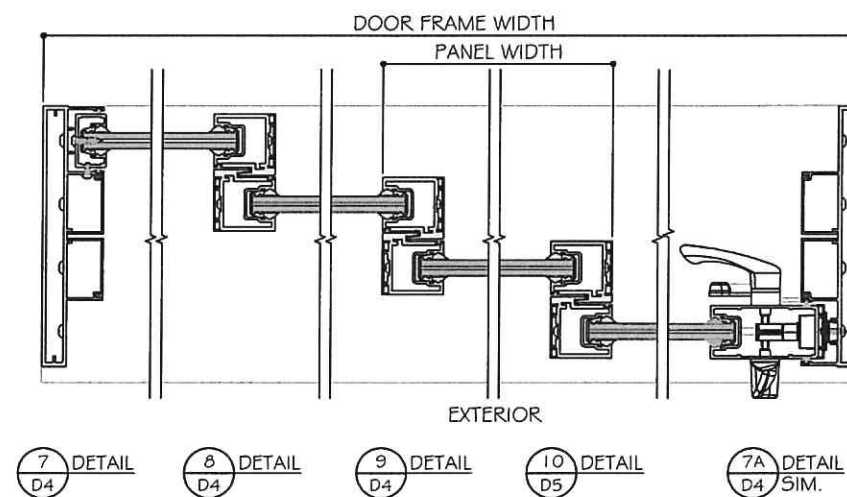
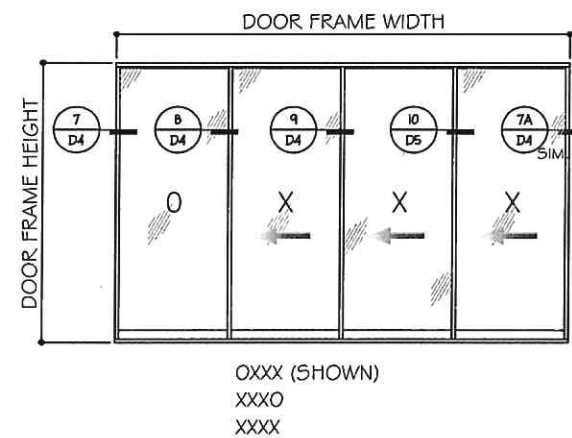
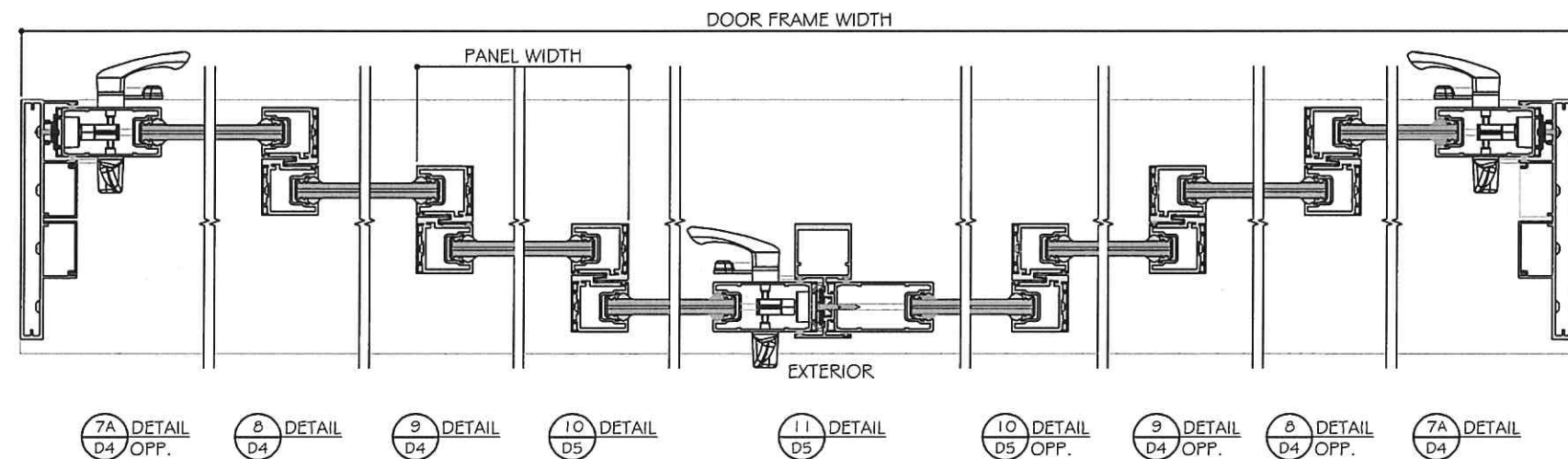
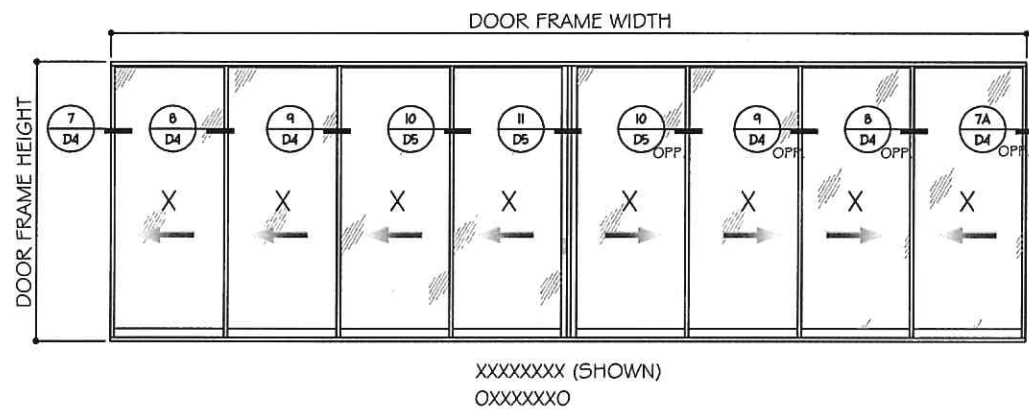
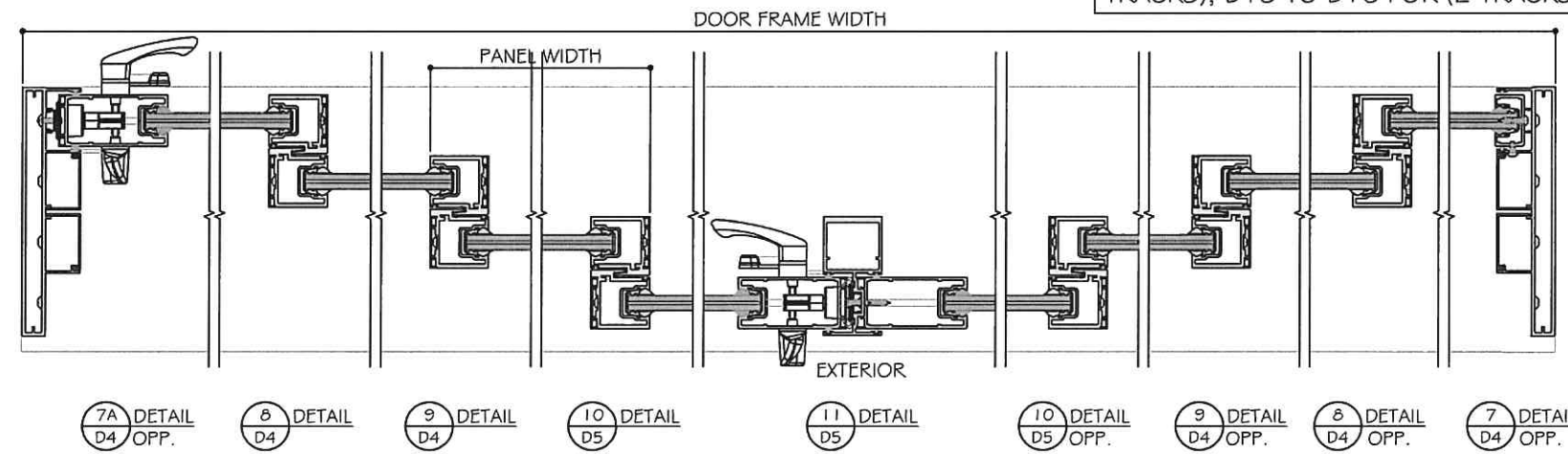
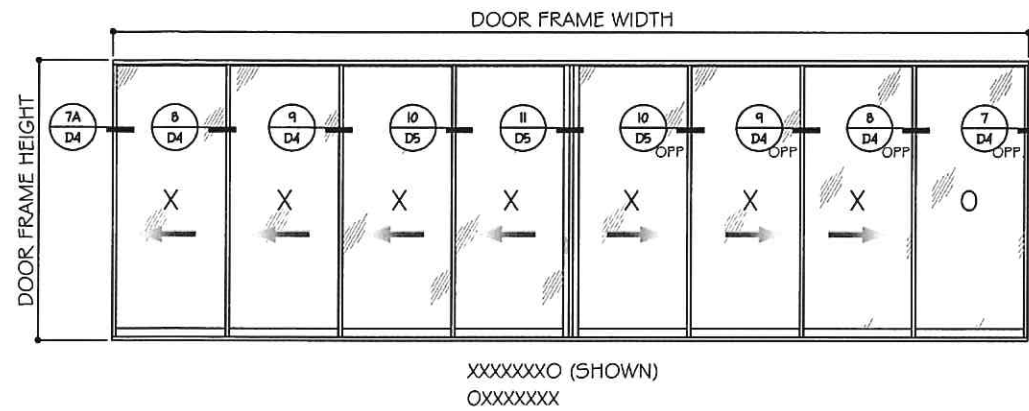
APPROVED CONFIGURATION DOORS

(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:

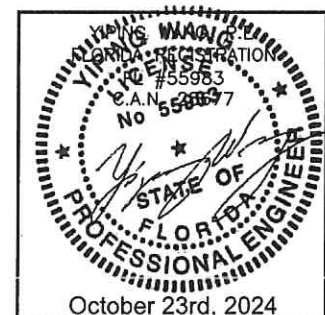
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE CHART ON SHEET G1 FOR GLASS CAPACITIES AND GLASS OPTIONS.
3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET K1.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1 TO A8.
5. FREE STANDING JAMB SEE OPTIONS 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)

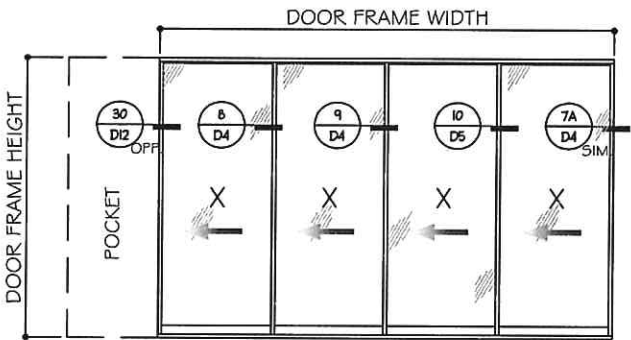
ES WINDOWS, INC.
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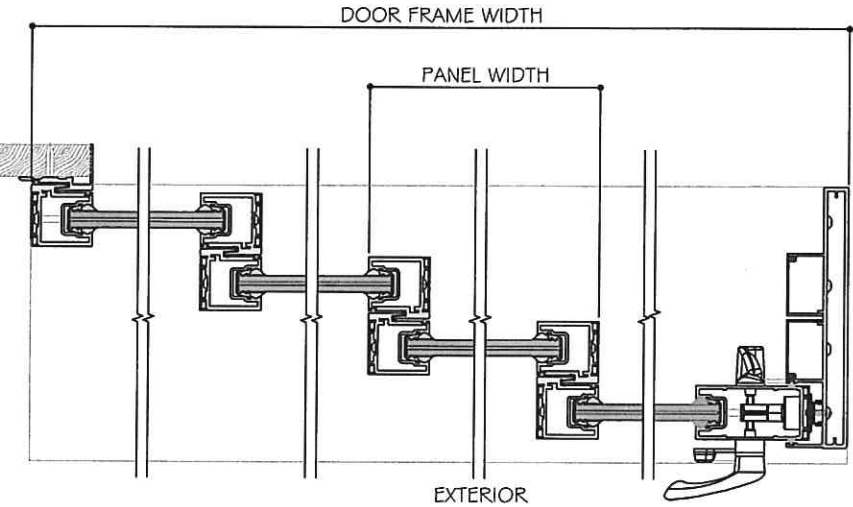
Rev. No.	Date	Drawn By	Description
10	10.08.2024	James	REVISION
Drawing Date: 10.08.2024			
Scale			
DRAWING NO. AD16-29			
E6			
Sheet No. 07 OF 59			

APPROVED CONFIGURATION POCKETED DOORS

(NON-REINFORCED SHOWN)
SEE SHEET K.I FOR Dp AND REINFORCING OPTIONS



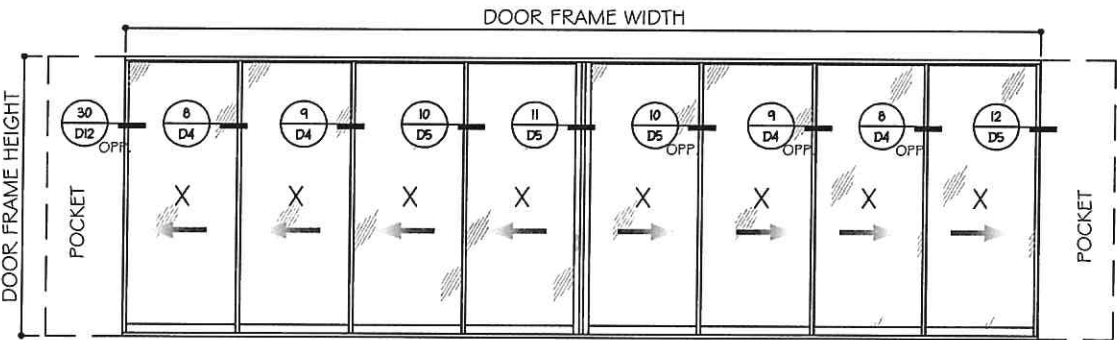
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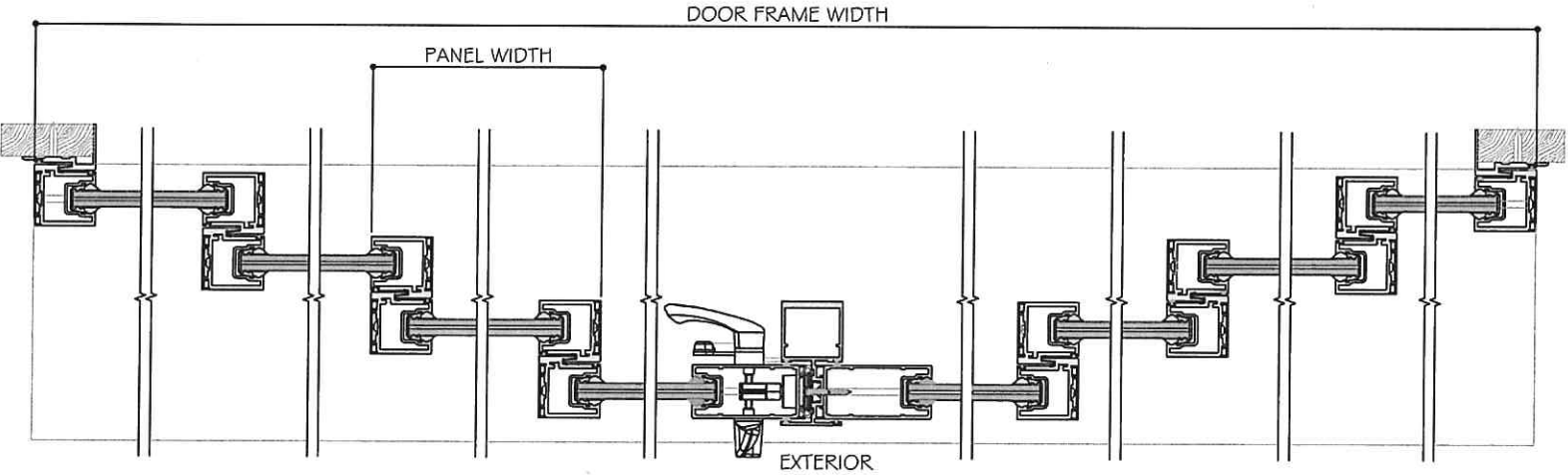
30 DETAIL D12 OPP. 8 DETAIL D4 9 DETAIL D4 10 DETAIL D5 7A DETAIL D4 SIM.

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).



PXXXXXXXXP (SHOWN)
PXXXXXXXX
XXXXXXXXXP
OXXXXXXXXP
PXXXXXXXXO

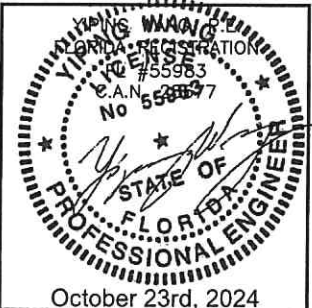


30 DETAIL D12 OPP. 8 DETAIL D4 9 DETAIL D4 10 DETAIL D5 11 DETAIL D5 10 DETAIL D5 OPP. 9 DETAIL D4 OPP. 8 DETAIL D4 OPP. 12 DETAIL D5

- NOTES:
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 4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A.I TO A8.
 5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET J.I TO J4.
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FOUR (4) TRACKS

POCKETS ARE NOT PART OF THIS APPROVAL
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TEL. (305) 624-7775

Rev.	Date	Drawn By	Description
01	10.08.2024	YIYANG WANG	ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

Drawn Date
10.08.2024

Scale

DRAWING NO.

AD16-29

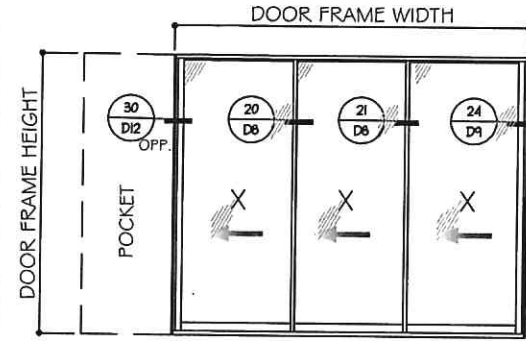
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Sheet No.
08 OF 59

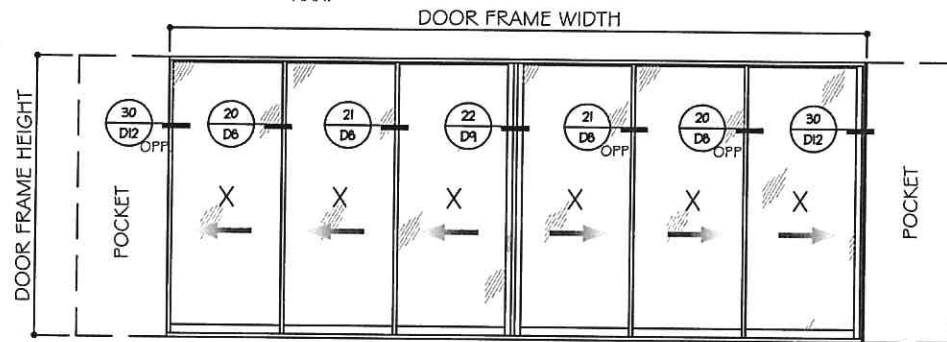
APPROVED CONFIGURATION POCKETED DOORS

(NON-REINFORCED SHOWN)

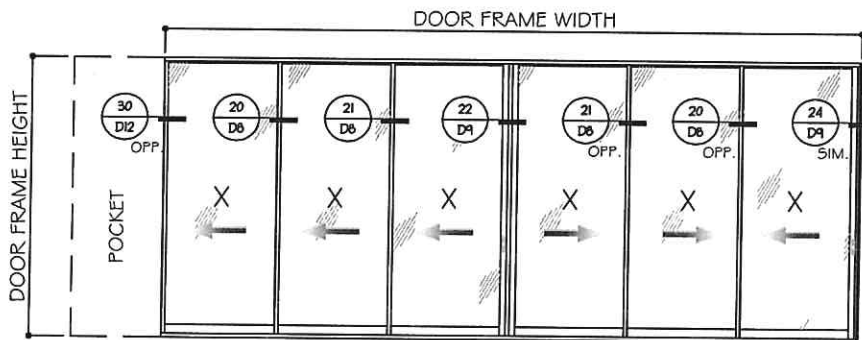
SEE SHEET K1 FOR DP AND REINFORCING OPTIONS



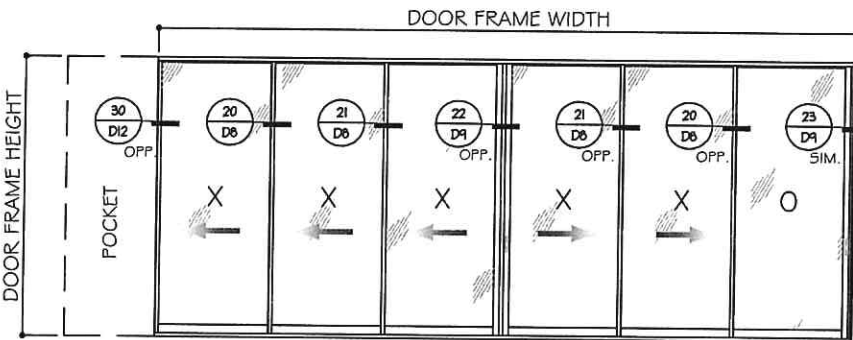
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XXXP



PXXXXXP (SHOWN)



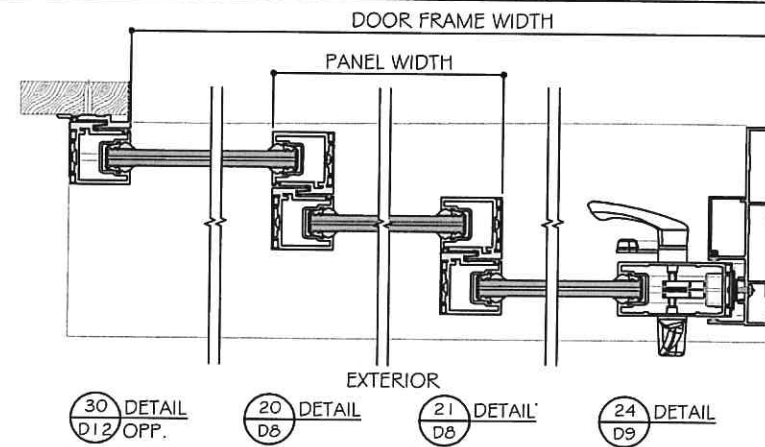
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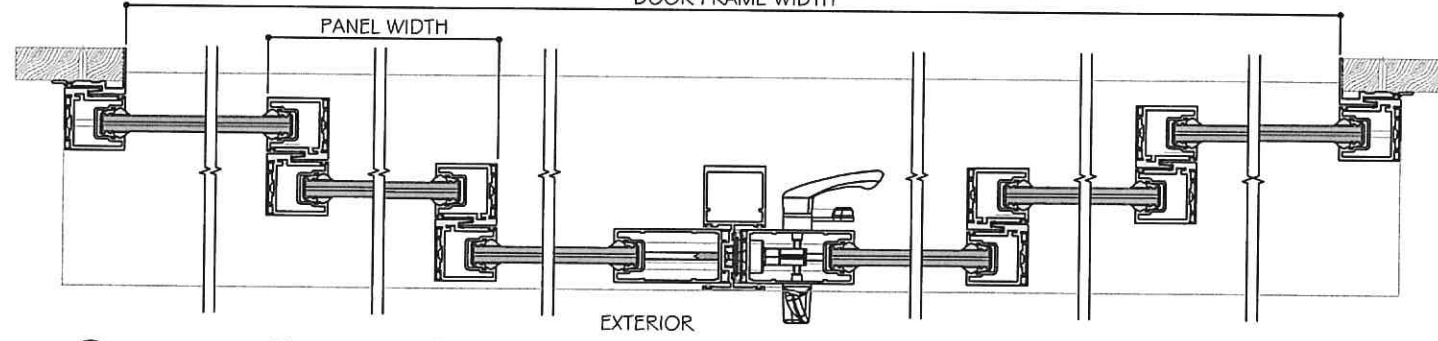
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THREE (3) TRACKS

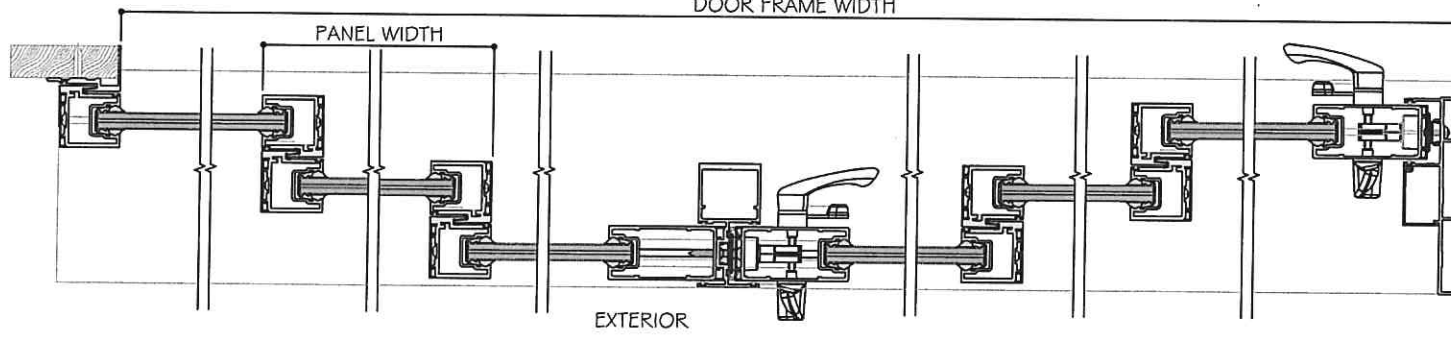
POCKETS ARE NOT PART OF THIS APPROVAL
AND ARE TO BE REVIEWED BY AHJ.



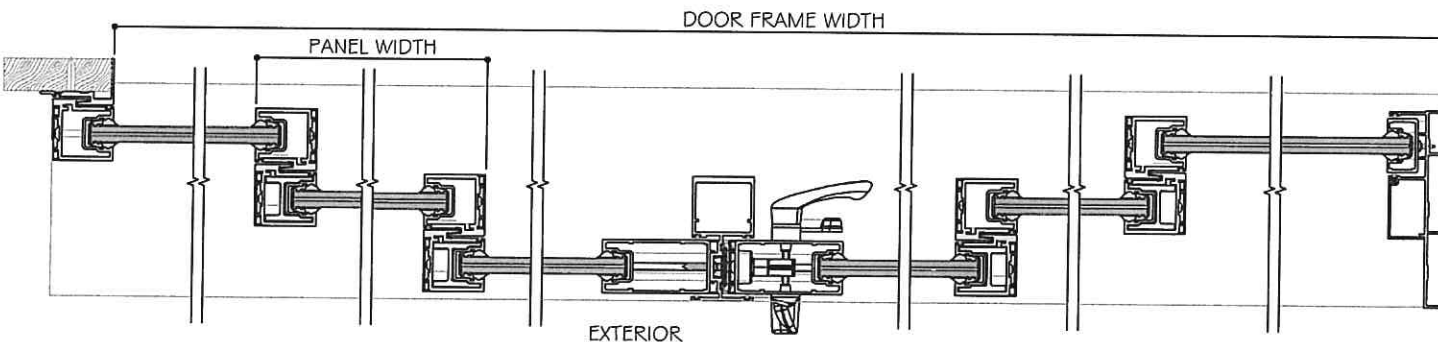
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30 D12 OPP. 20 D8 21 D8 22 D9 21 D8 OPP. 20 D8 OPP. 30 D12



30 D12 OPP. 20 D8 21 D8 22 D9 21 D8 OPP. 20 D8 OPP. 24 D9 SIM.



30 D12 OPP. 20 D8 21 D8 22 D9 21 D8 OPP. 20 D8 OPP. 23 D9 SIM.

NOTES:

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

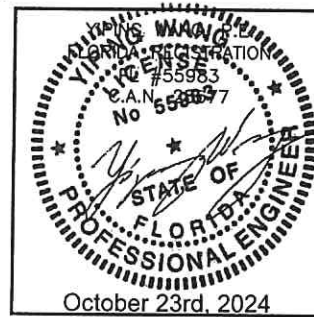
LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

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Rev.	Date	Drawn By	Description
1	10.08.2024	James	REVISION
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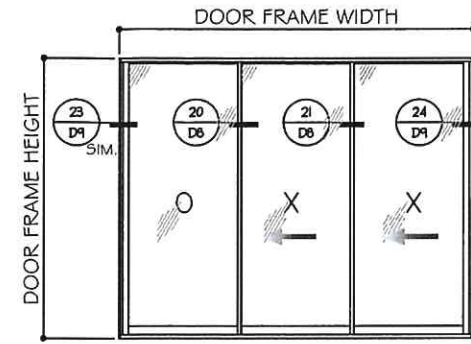
Drawn Date
10.08.2024

DRAWING NO.
AD16-29

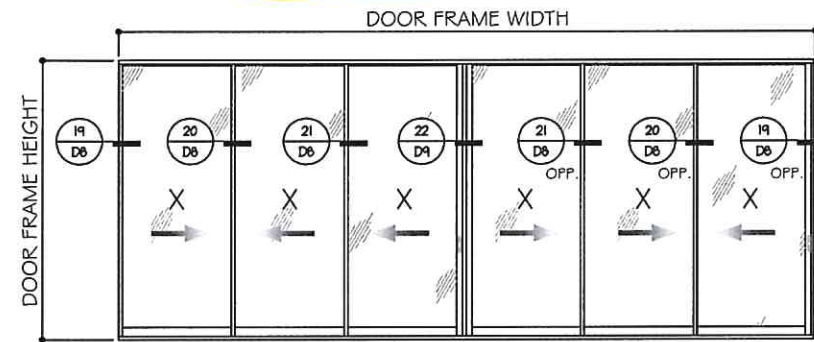
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Sheet No.
09 OF 59

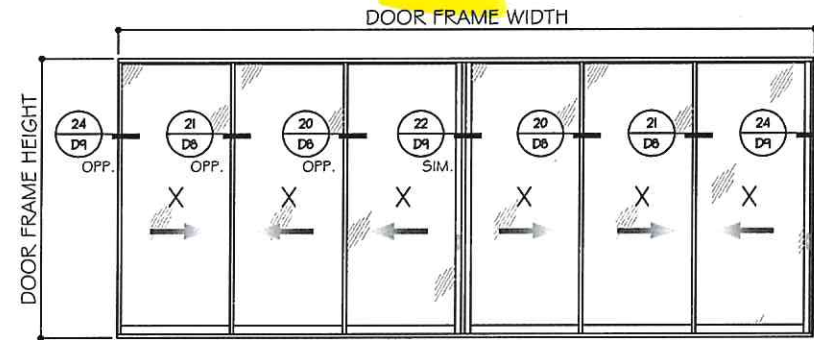
APPROVED CONFIGURATION DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



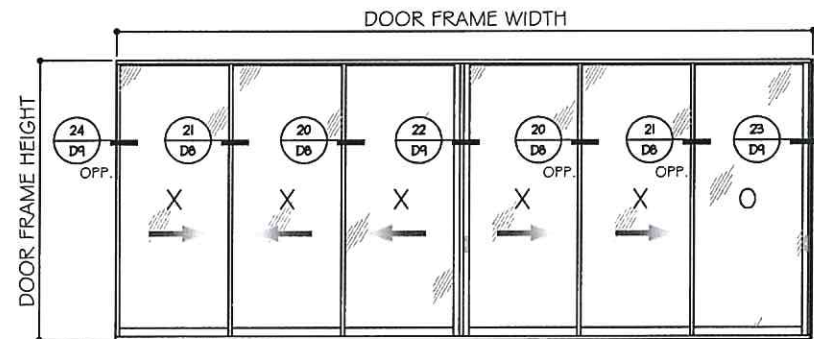
OXX (SHOWN)
XXO
XXX (# REVERSE)



XXXXX (SHOWN)
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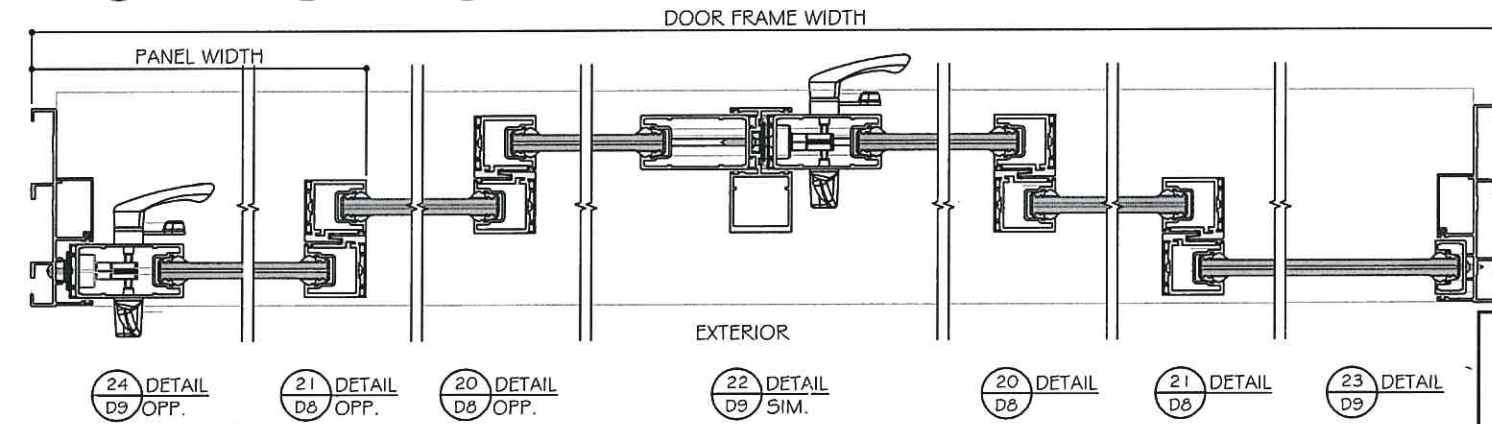
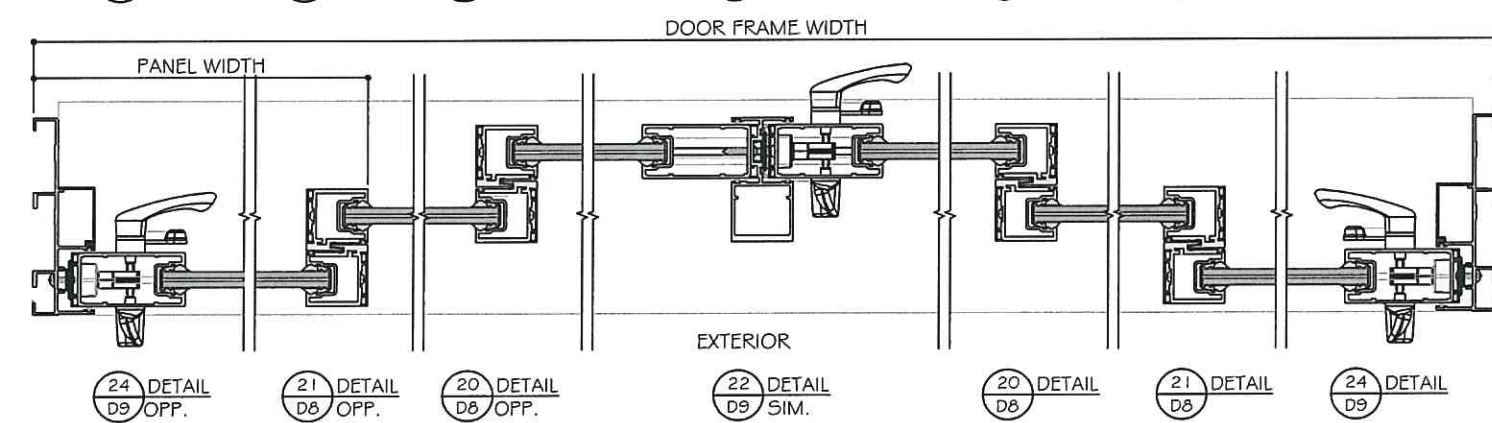
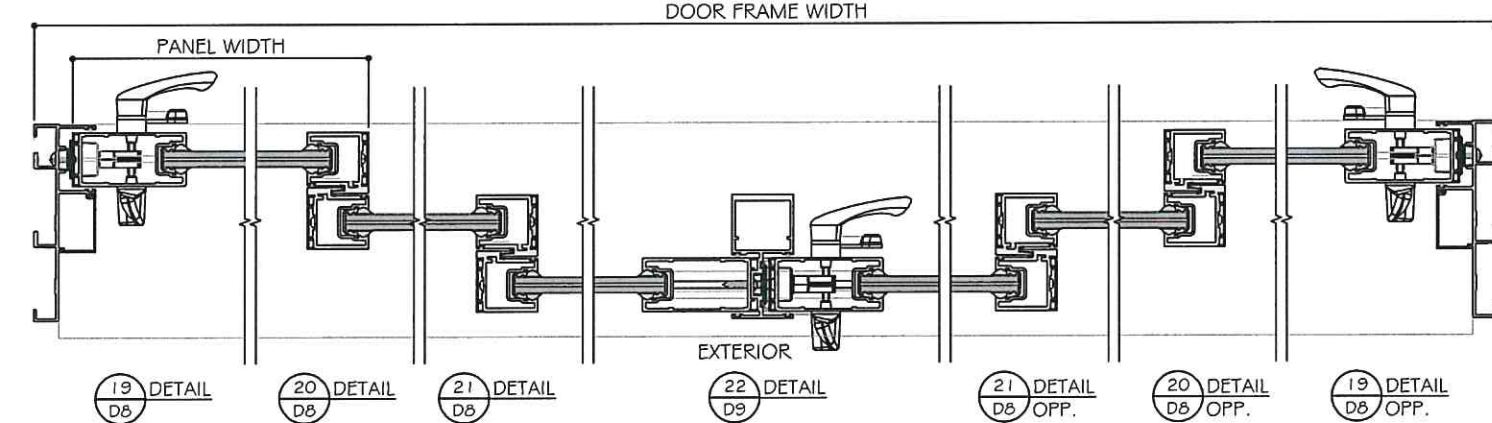
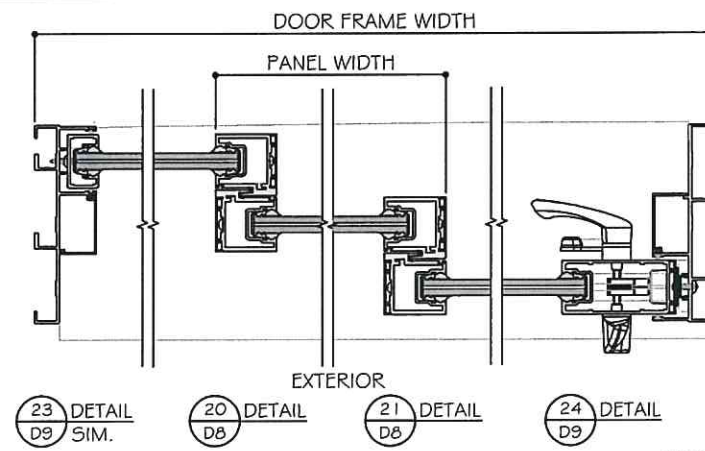
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THREE (3) TRACKS

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

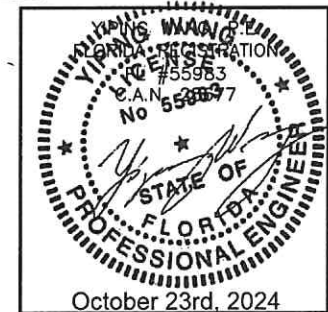


NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D4
TO D7 FOR (4 TRACKS), D8 TO D12 FOR (3
TRACKS), D13 TO D16 FOR (2 TRACKS).

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

NOTES:

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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.
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Rev. No.	Date	Drawn By	Description
1	10.08.2024	James	REVISION
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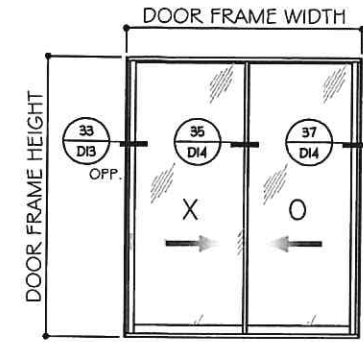
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DRAWING NO. AD16-29

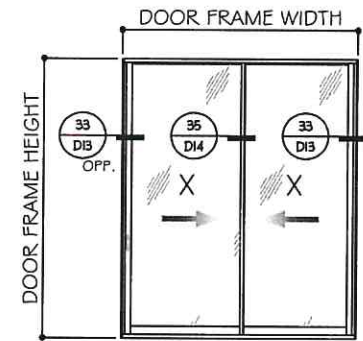
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Sheet No. 10 OF 59

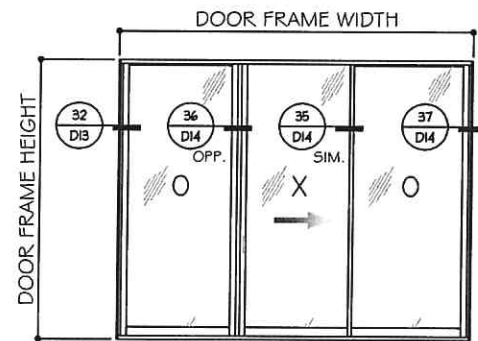
APPROVED CONFIGURATION DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K.I FOR D_p AND REINFORCING OPTIONS



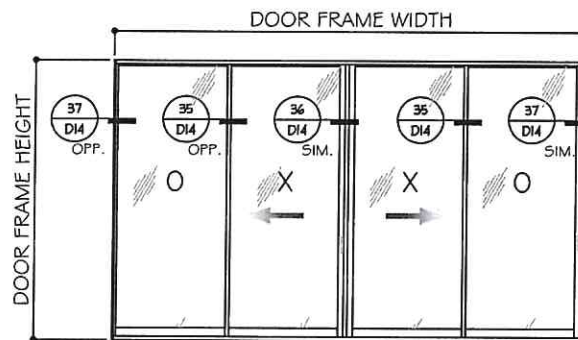
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OX



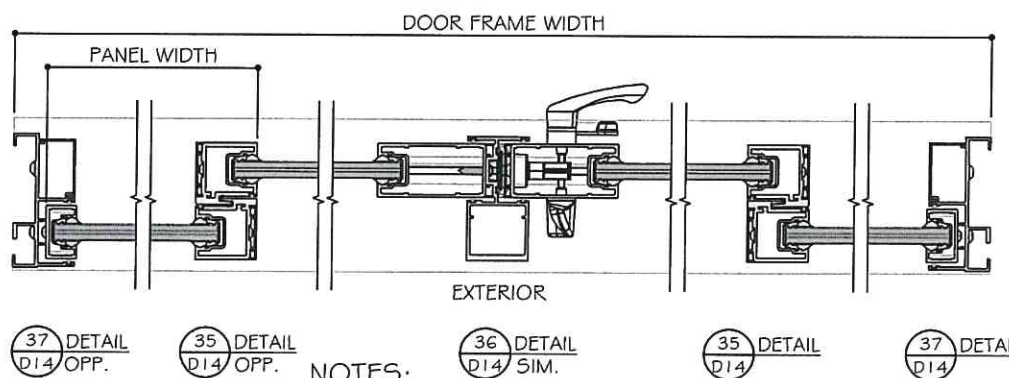
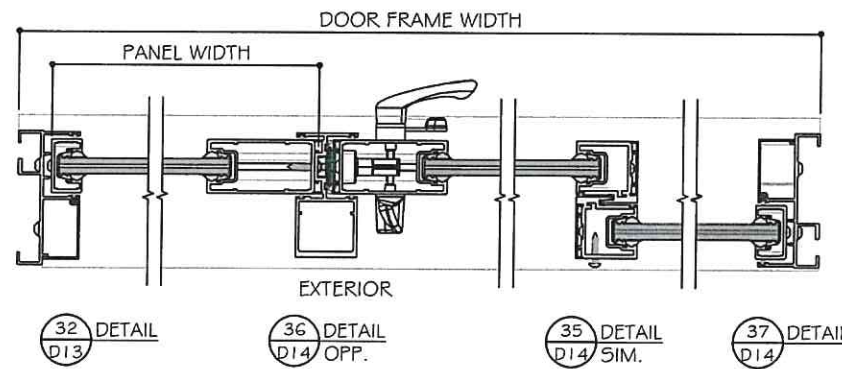
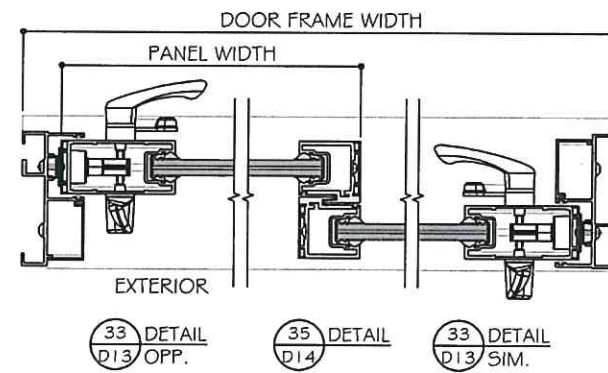
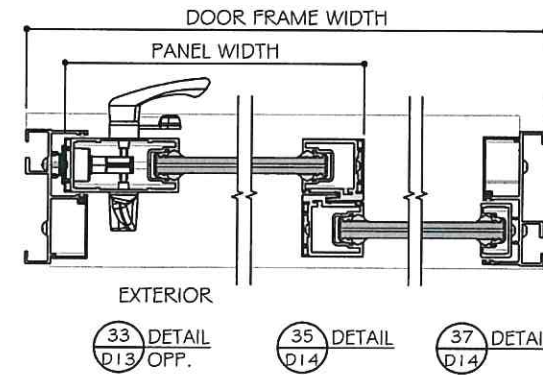
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OXO (SHOWN)
OXO (REVERSE)



OXOX (SHOWN)
XXXX (SIMILAR)



NOTES:

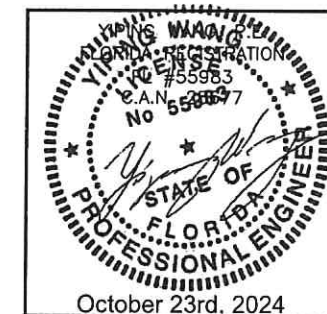
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
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LAMINATED GLASS OPTIONS SHOWN.
SEE DETAILS FOR INSULATED LAMINATED OPTION.

NON-REINFORCED DETAILS SHOWN.
FOR REINFORCED DETAILS, SEE SHEET D.4
TO D.7 FOR (4 TRACKS), D.8 TO D.12 FOR (3
TRACKS), D.13 TO D.16 FOR (2 TRACKS).

TWO (2) TRACKS

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

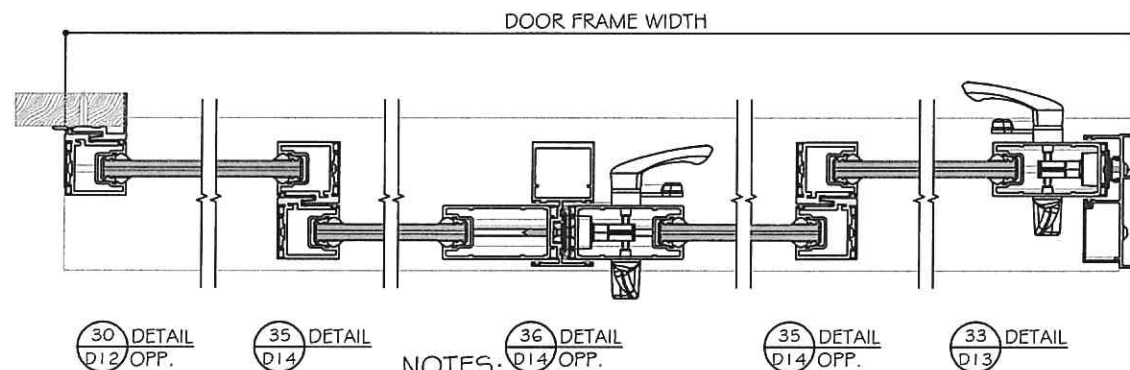
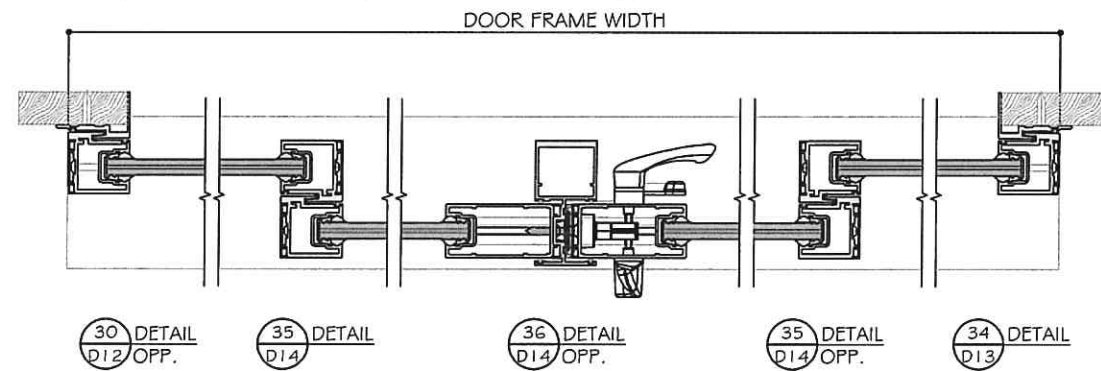
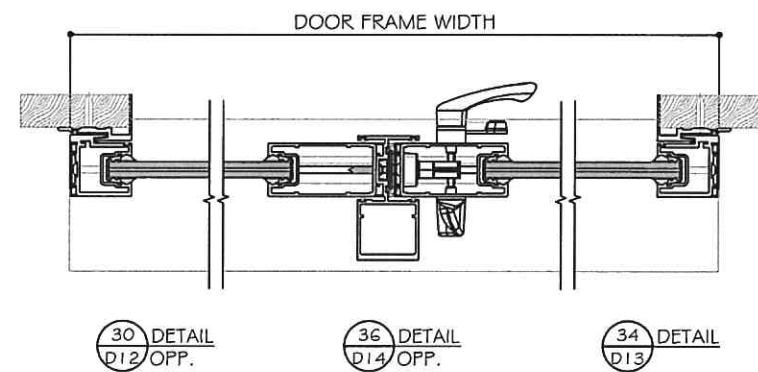
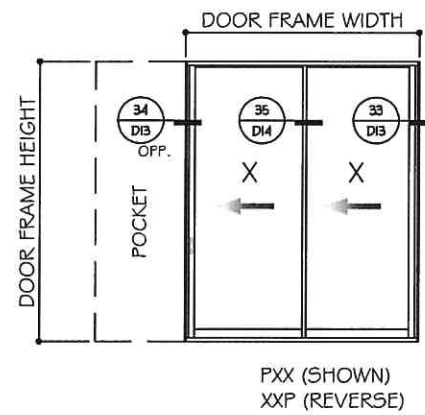
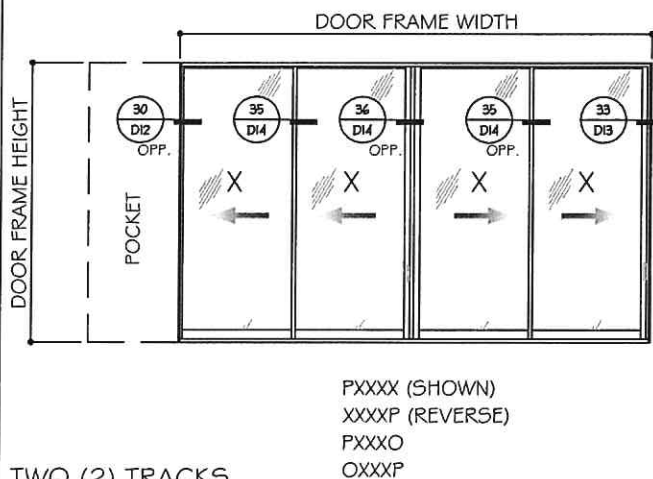
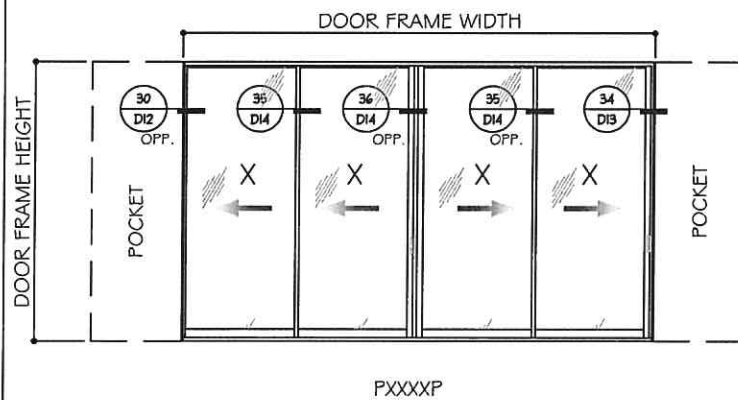
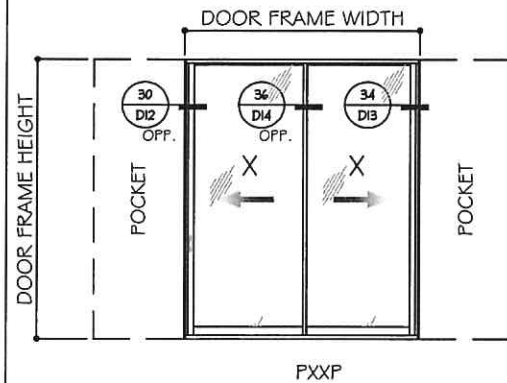
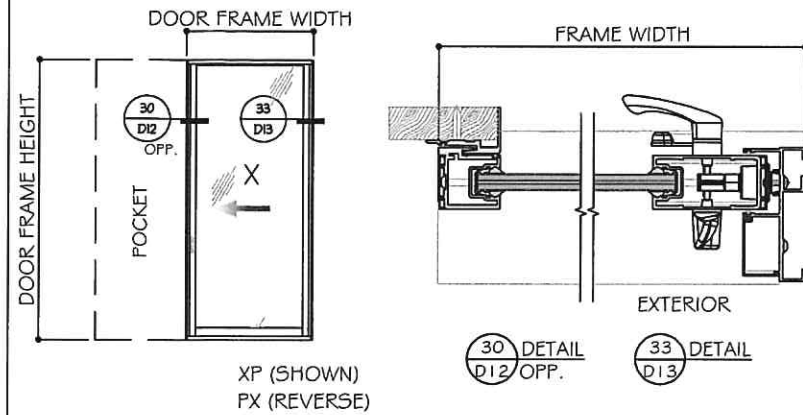


MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com	
ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)	
ES WINDOWS, INC. 10653 NE Quaybridge Ct. Miami, FL 33138 TEL: (305) 624-7775	
Drawn Date 10.08.2024	Scale AS SHOWN
Drawing No. AD16-29	E10
Sheet No. 11 OF 59	Date 10.08.2024
Rev. No. 05	Drawn By JAMES
Description REVISION	Date 10.08.2024

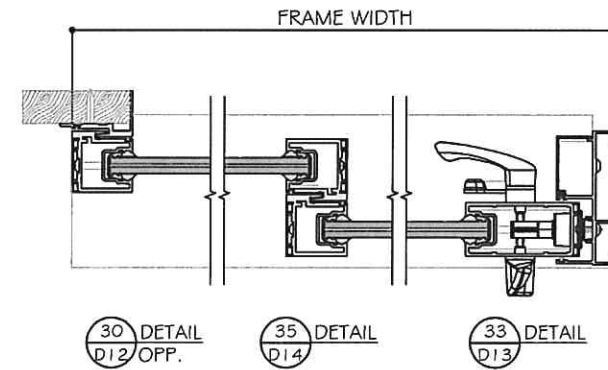
APPROVED CONFIGURATION POCKETED DOORS

(NON-REINFORCED SHOWN)

SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



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



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

NOTES:

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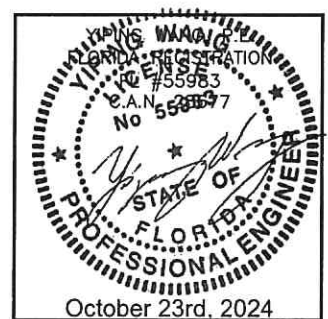
TWO (2) TRACKS

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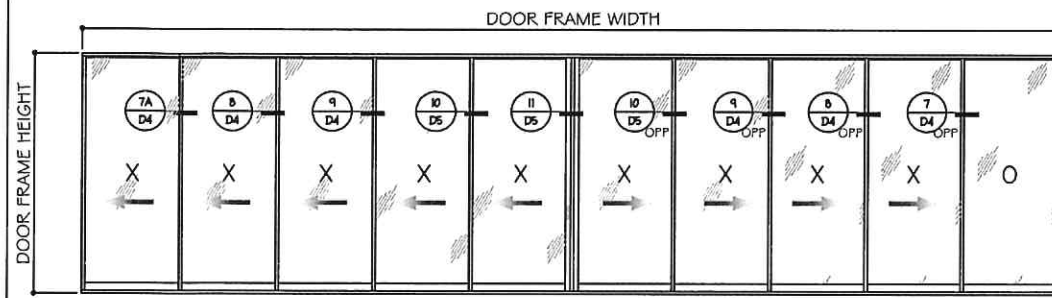


Rev.	Date	Drawn By	Description
1	10-08-2024	Jerry	REVISION
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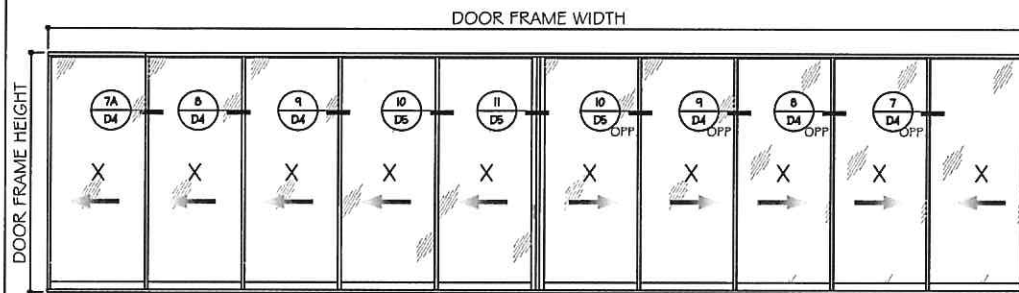
DRAWING NO.
AD16-29

Sheet No.
12 OF 59

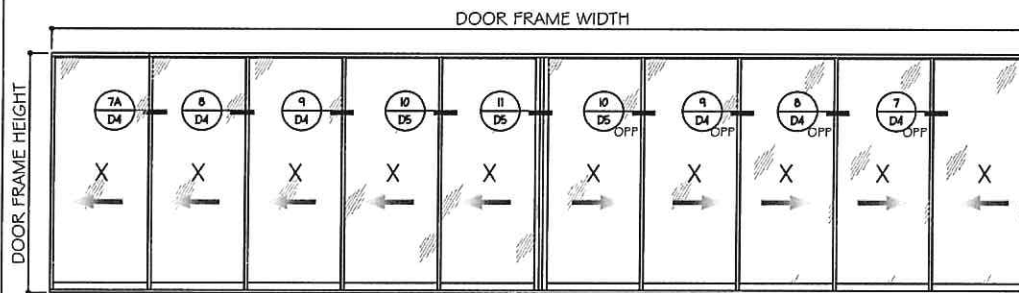
APPROVED CONFIGURATION POCKETED AND NO POCKET DOORS
(NON-REINFORCED SHOWN)
SEE SHEET K1 FOR D_p AND REINFORCING OPTIONS



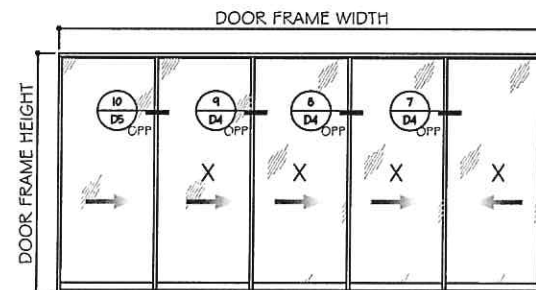
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XXXXXXXXO (SHOWN)
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XXXXXXXXO (SHOWN)
OXXXXXXXX



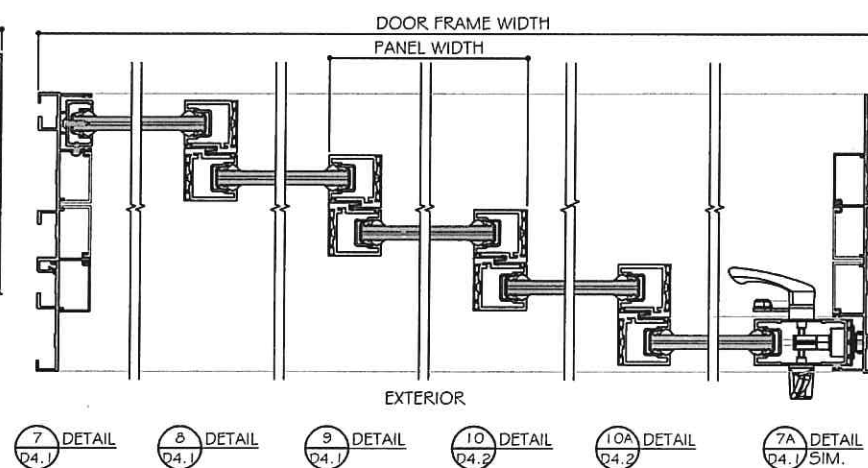
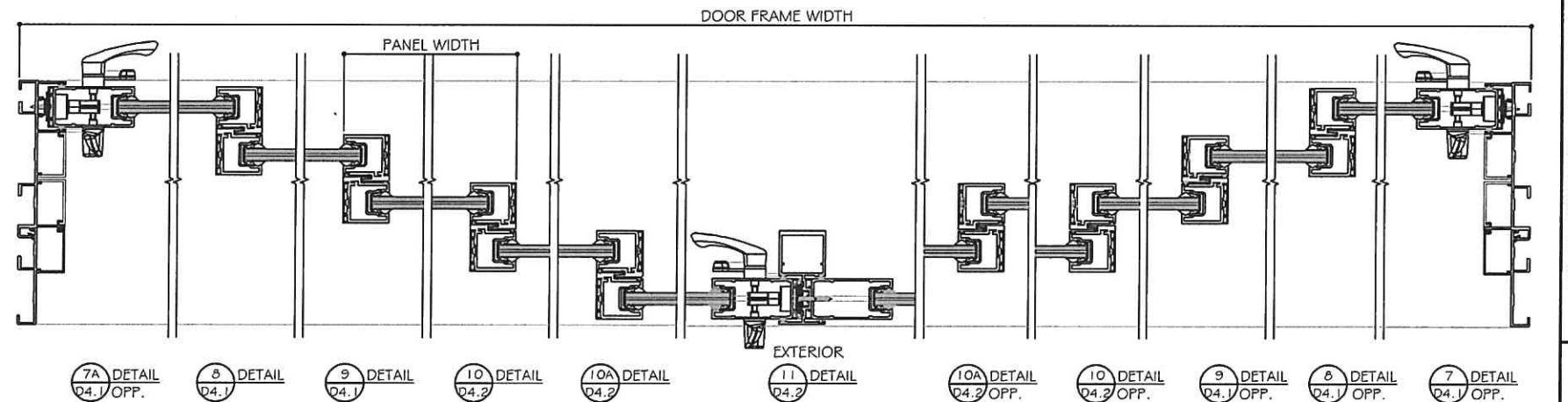
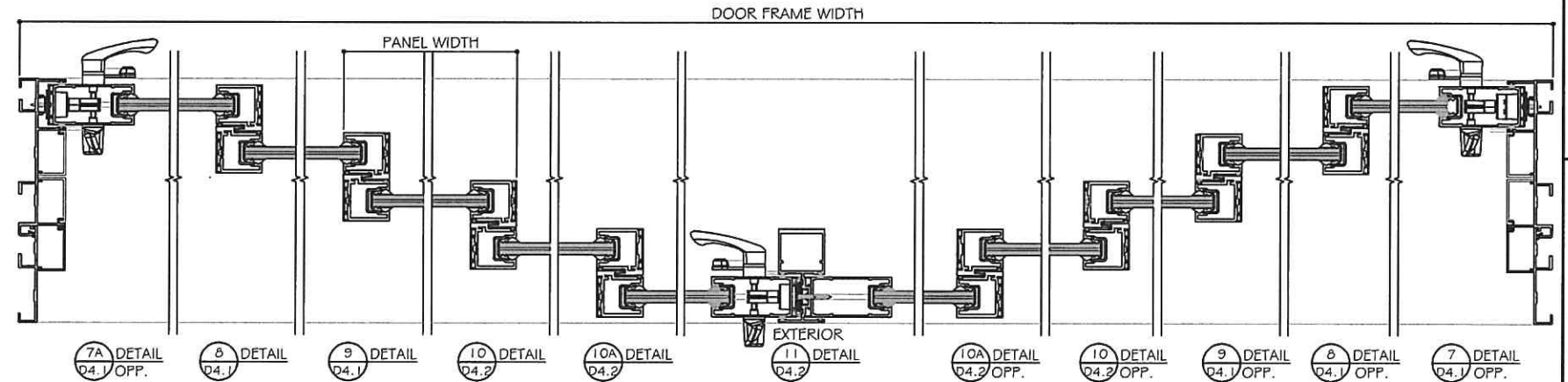
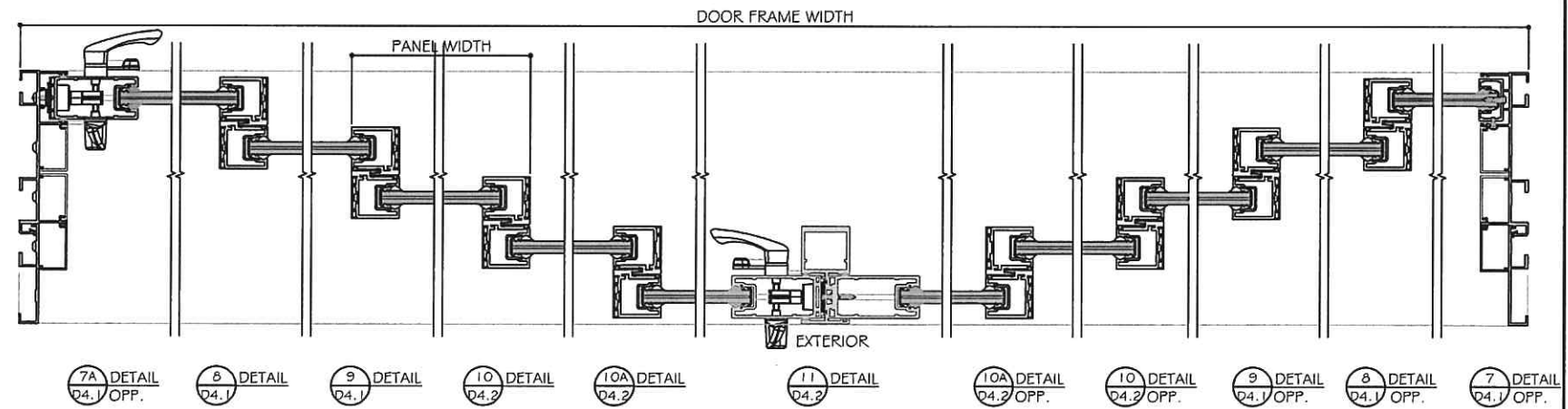
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FIVE (5) TRACKS

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

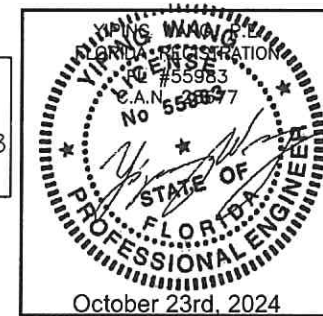
NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE CHART ON SHEET 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).



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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

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

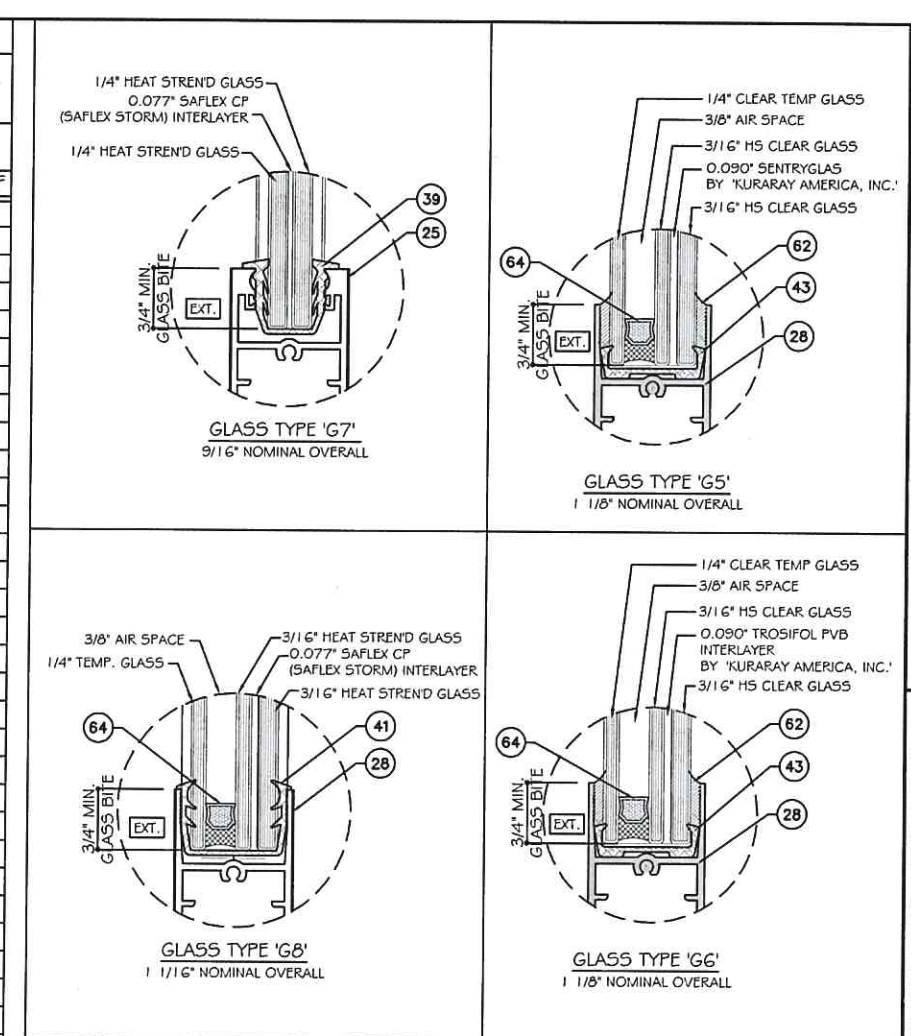
Rev. No.	Date	Drawn By	Description
1	10.03.2024	J-wes	REVISION
2	10.08.2024		
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Drawn Date
10.08.2024
Scale
DRAWING NO.
AD16-29
E12
Sheet No.
13 OF 59

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

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

DESIGN LOAD CAPACITY - PSF (GLASS)									
SGD PANEL SIZES		9/16" NOMINAL LAMINATED GLASS			1-1/8" NOMINAL INSUL. LAMI. GLASS		1-1/8" NOMINAL INSUL. LAMI. GLASS		
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	G1	G2	G7	G3	G4	G5	G6	G8
36	114	150.0	150.0	90.0	150.0	150.0	102	102	90.0
42		150.0	150.0	90.0	150.0	132.0	102	102	90.0
48		150.0	150.0	90.0	139.0	115.0	102	102	90.0
54		102.0	102.0	90.0	102.0	102.0	102	-	90.0
60		102.0	102.0	90.0	102.0	98.8	102	-	90.0
66	D110	102.0	-	-	102.0	-	-	-	-
72		102.0	-	-	102.0	-	-	-	-
36		150.0	150.0	90.0	150.0	150.0	102	102	90.0
42		150.0	150.0	90.0	150.0	129.0	102	102	90.0
48		150.0	132.0	90.0	148.0	110.0	102	102	90.0
54	D120	102.0	102.0	90.0	102.0	101.0	102	-	90.0
60		102.0	102.0	90.0	102.0	92.8	-	-	90.0
66		102.0	-	-	102.0	0205	-	-	-
72		102.0	-	-	102.0	-	-	-	-
84		102.0	-	-	102.0	-	-	-	-
36	126	150.0	-	-	150.0	-	102	-	-
42		150.0	-	-	150.0	-	102	-	-
48		102.0	-	-	102.0	-	102	-	-
54		102.0	-	-	102.0	-	102	-	-
60		102.0	-	-	102.0	-	-	-	-
66	132	102.0	-	-	102.0	-	-	-	-
36		150.0	-	-	150.0	-	102	-	-
42		150.0	-	-	150.0	-	102	-	-
48		102.0	-	-	102.0	-	102	-	-
54		102.0	-	-	102.0	-	102	-	-
60	138	102.0	-	-	102.0	-	-	-	-
36		150.0	-	-	150.0	-	102	-	-
42		150.0	-	-	150.0	-	102	-	-
48		102.0	-	-	102.0	-	102	-	-
54		102.0	-	-	102.0	-	-	-	-
60	D144	102.0	-	-	102.0	-	-	-	-
36		150.0	-	-	150.0	-	102	-	-
42		102.0	-	-	102.0	-	102	-	-
48		102.0	-	-	102.0	-	-	-	-
54		102.0	-	-	102.0	-	-	-	-
60	D113	102.0	-	-	102.0	-	-	-	-
66		102.0	-	-	102.0	-	-	-	-

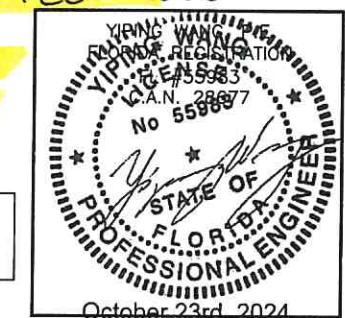


D110: 70" x 120" x x
D113: 201" x 144" o x x o
D115: 354" x 144" o x x - x x o
D116: 185" x 144" o x x o
D130: 177" x 120" x x x
D205: 263" x 120" o x x - x o
D206: 155" x 120" x x x

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

D207: 153" x 120" x x x
D208: 153" x 120" x x x
D211: 156" x 120" x x x

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



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

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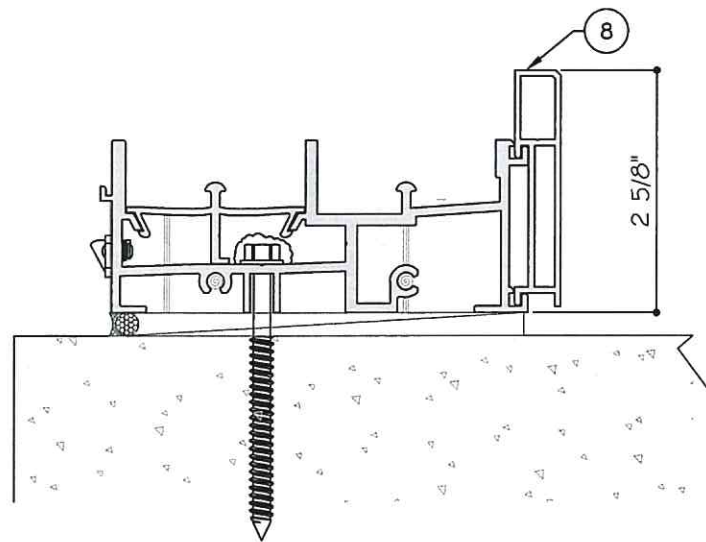
Drawn Date	Scale	Drawn By	Date	Rev. No.	Description
10.08.2024		JAMES			

DRAWING NO.
AD16-29

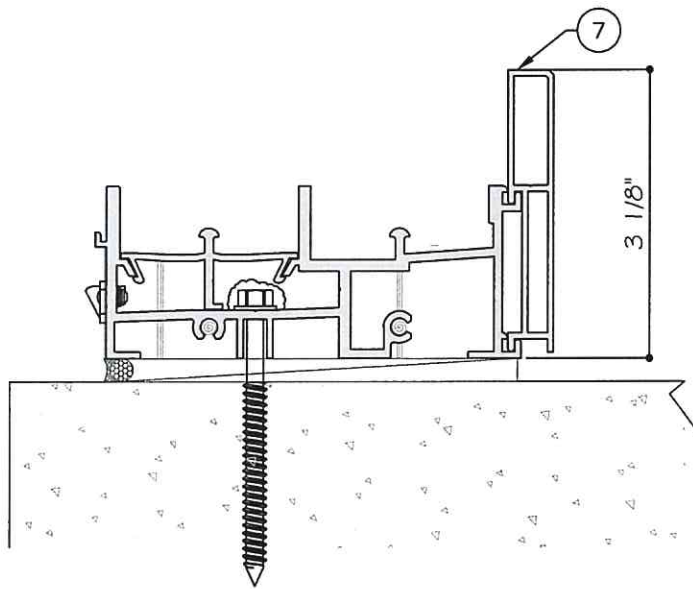
G1

Sheet No.
14 OF 59

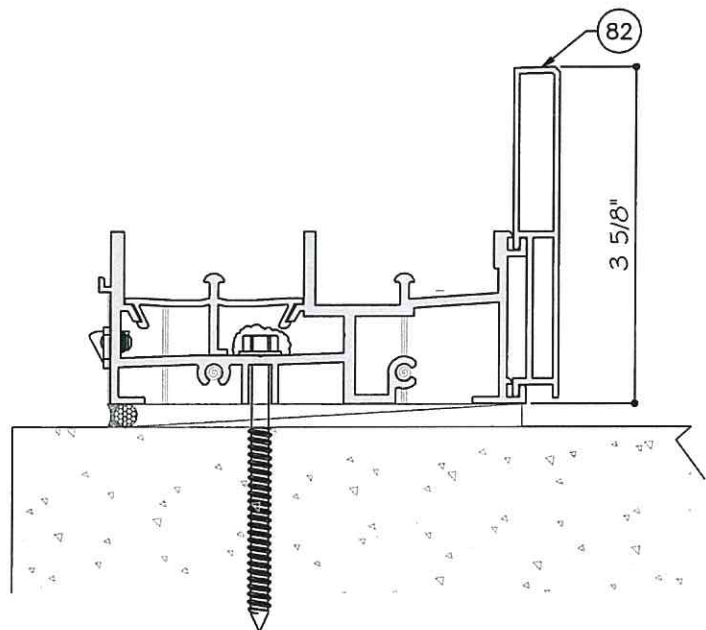
SILL RAISER OPTIONS (SHOWN ON 2 TRACK DOORS)
POSITIVE LOAD LIMITED AS FOLLOW DUE TO WATER INFILTRATION



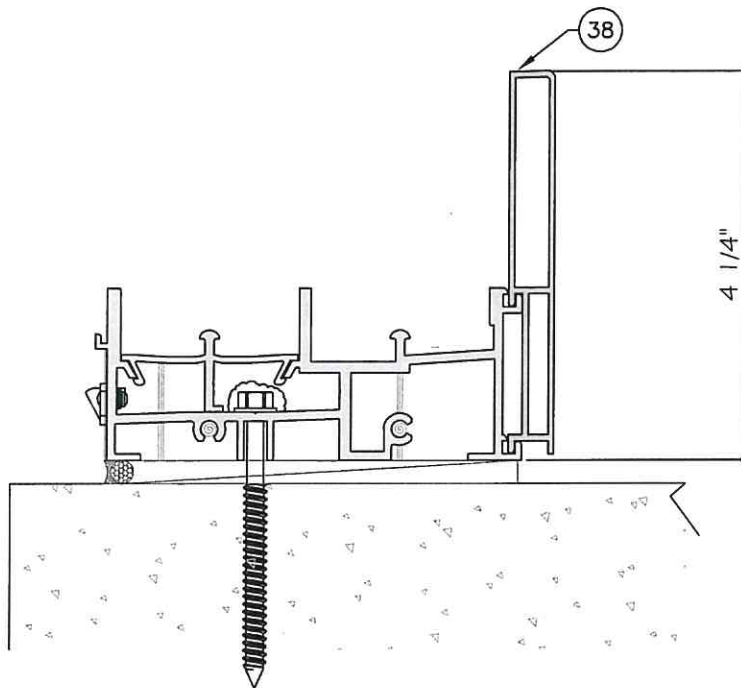
Pd MAX.= +53 PSF



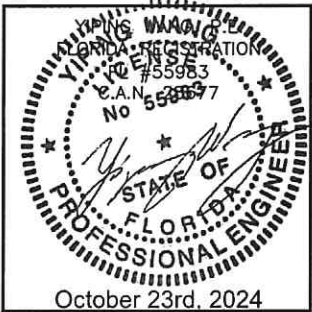
Pd MAX.= +67 PSF



Pd MAX.= +80 PSF



Pd MAX.= +90 PSF



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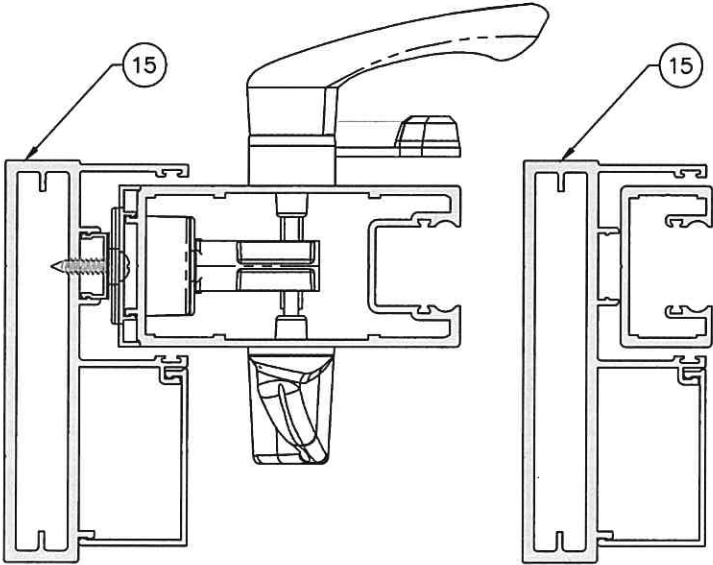
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Rev. No.	Date	Drawn By	Description
1	10.08.2024	YIYANG WANG	REVISION
Drawing Date 10.08.2024			Scale
DRAWING NO. AD16-29			
Sheet No. 16 OF 59			

2 TRACK FREE STANDING JAMB CAPACITY - PSF							
SGD PANEL SIZES		JAMB W/O REINF. (J1)		JAMB W/ ALUM REINF. (J2)		JAMB W/ STEEL REINF. (J2S)	
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF	PSF	PSF	PSF	PSF	PSF
		+	-	+	-	+	-
60	84	65	77	85	100	85	100
66		65	73	85	100	85	100
72		65	71	85	100	85	100
78		65	69	85	100	85	100
84		65	68	85	100	85	100
60	90	65	66	85	100	85	100
66		62	62	85	98	85	100
72		59	59	85	94	85	100
78		57	57	85	91	85	100
84	96	56	56	65	74	65	78
60		56	56	85	90	85	100
66		53	53	85	84	85	100
72		50	50	80	80	85	96
78	102	48	48	64	64	65	78
84		47	47	62	62	65	78
36		65	76	85	100	85	100
42		65	66	85	100	85	100
48		59	59	85	93	85	100
54		53	53	85	85	85	100
60		49	49	78	78	85	94
66		46	46	73	73	85	88
72	108	43	43	57	57	65	78
78		42	42	55	55	65	78
84		40	40	53	53	65	77
36		65	67	85	100	85	100
42		58	58	85	93	85	100
48		52	52	83	83	85	99
54		47	47	75	75	85	90
60		43	43	69	69	83	83
66	114	40	40	64	64	77	77
72		38	38	50	50	65	73
78		36	36	48	48	65	69
36		60	60	85	95	85	100
42		52	52	83	83	85	100
48		46	46	74	74	85	88
54		42	42	66	66	80	80
60		38	38	61	61	73	73
66	120	36	36	47	47	65	68
72		33	33	44	44	64	64

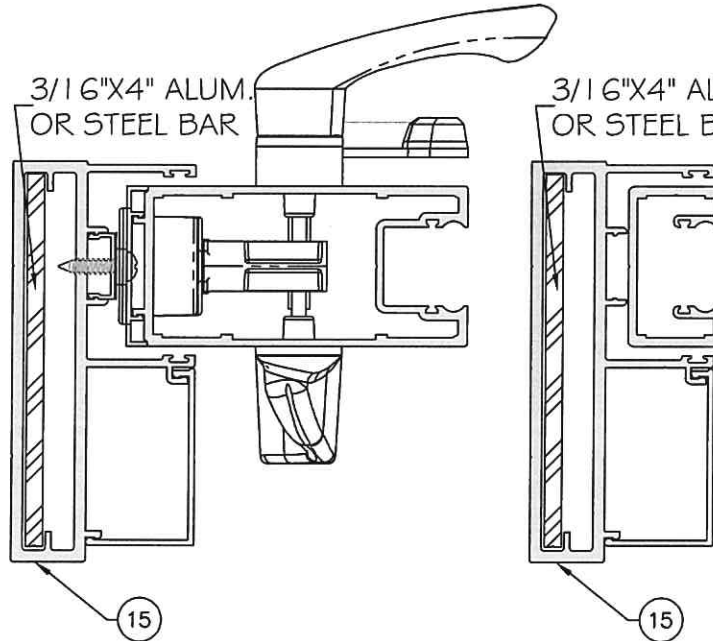
2 TRACK FREE STANDING JAMB CAPACITY - PSF							
SGD PANEL SIZES		JAMB W/O REINF. (J1)		JAMB W/ ALUM REINF. (J2)		JAMB W/ STEEL REINF. (J2S)	
AVE. PANEL WIDTH (IN)	DOOR HEIGHT (IN)	PSF	PSF	PSF	PSF	PSF	PSF
		+	-	+	-	+	-
36	120	54	54	85	85	85	100
42		47	47	74	74	85	89
48		42	42	66	66	79	79
54		37	37	59	59	72	72
60		34	34	54	54	66	66
66	126	32	32	42	42	61	61
72		30	30	39	39	57	57
36		49	49	64	64	65	78
42		42	42	56	56	65	78
48		37	37	49	49	65	72
54	132	34	34	44	44	64	64
60		31	31	41	41	59	59
66		29	29	38	38	55	55
36		44	44	59	59	65	78
42		38	38	51	51	65	73
48	138	34	34	45	45	65	65
54		31	31	40	40	58	58
60		28	28	37	37	53	53
36		41	41	53	53	65	77
42		35	35	46	46	65	67
48	144	31	31	41	41	59	59
54		28	28	37	37	53	53
60		25	25	33	33	48	48
36		37	37	49	49	65	71
42		32	32	42	42	61	61
48	150	28	28	37	37	54	54
54		25	25	33	33	49	49
60		23	23	31	31	44	44

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



JAMB W/ LOCK STILE UNREINF.

JAMB W/ FIX STILE UNREINF.



JAMB W/ LOCK STILE REINF.

JAMB W/ FIX STILE REINF.

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



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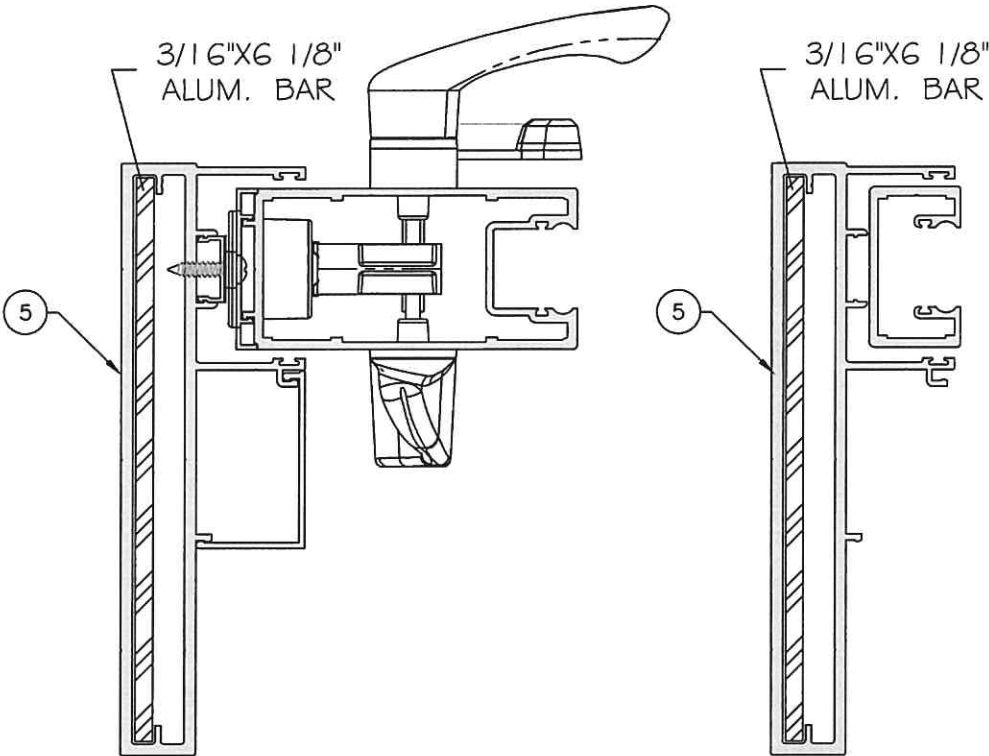
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Rev.	Date	Drawn By	Description
1.0	10.08.2024	J. Manoy	REVISION
1.0	10.08.2024	J. Manoy	Drawn By
1.0	10.08.2024	J. Manoy	Date
1.0	10.08.2024	J. Manoy	Rev. No.
1.0	10.08.2024	J. Manoy	Scale
1.0	10.08.2024	J. Manoy	DRAWING NO.
1.0	10.08.2024	J. Manoy	AD16-29
1.0	10.08.2024	J. Manoy	J1
1.0	10.08.2024	J. Manoy	Sheet No.
1.0	10.08.2024	J. Manoy	17 OF 59

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	108	85	102
72		85	102
78		85	102
84		85	102
36	114	85	102
42		85	102
48		85	102
54		85	102
60		85	102
66	120	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	126	85	102
72		85	102
36		85	102
42		85	102
48		85	102
54	132	85	102
60		85	102
66		85	102
36		85	102
42		85	102
48	138	85	102
54		85	102
60		85	102
66		85	102
36	144	85	98
42		85	98
48		85	99
54		85	99
60		85	90

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



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



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Rev. No.

Date

Drawn By

Description

Drawn Date

10.08.2024

DRAWING NO.

AD16-29

J2

Sheet No.

18 OF 59

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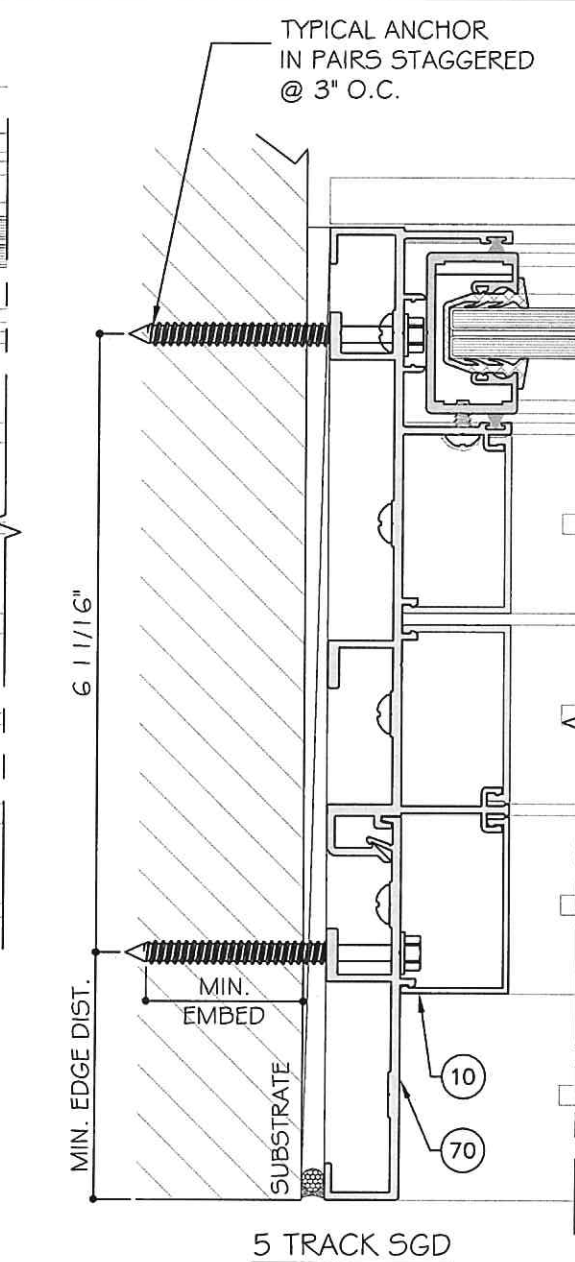
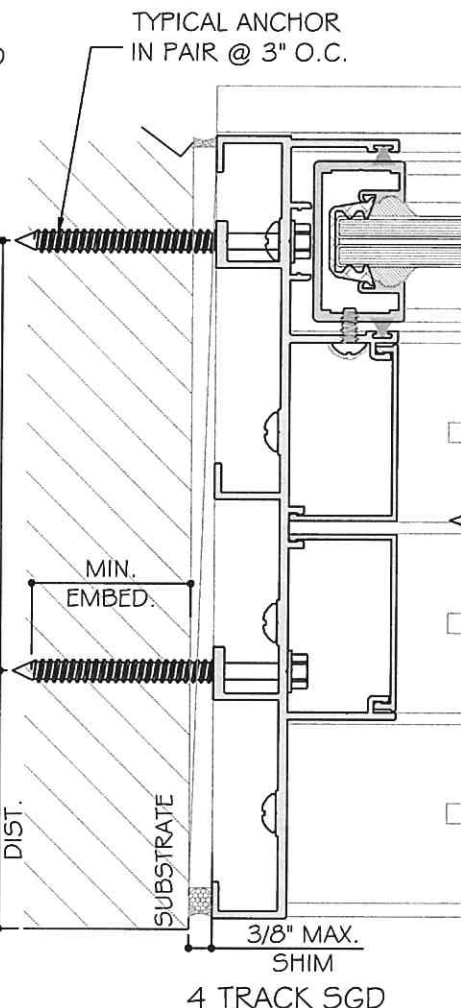
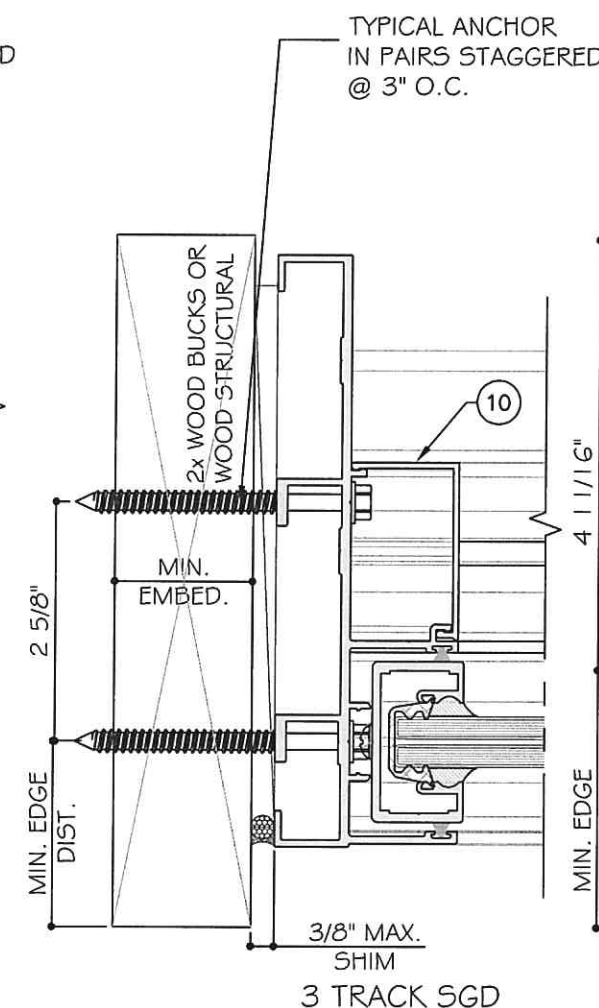
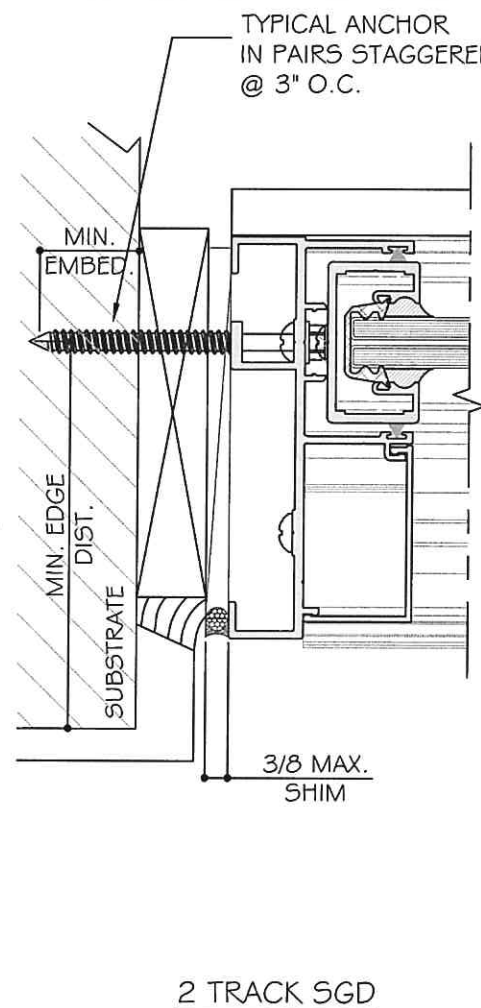
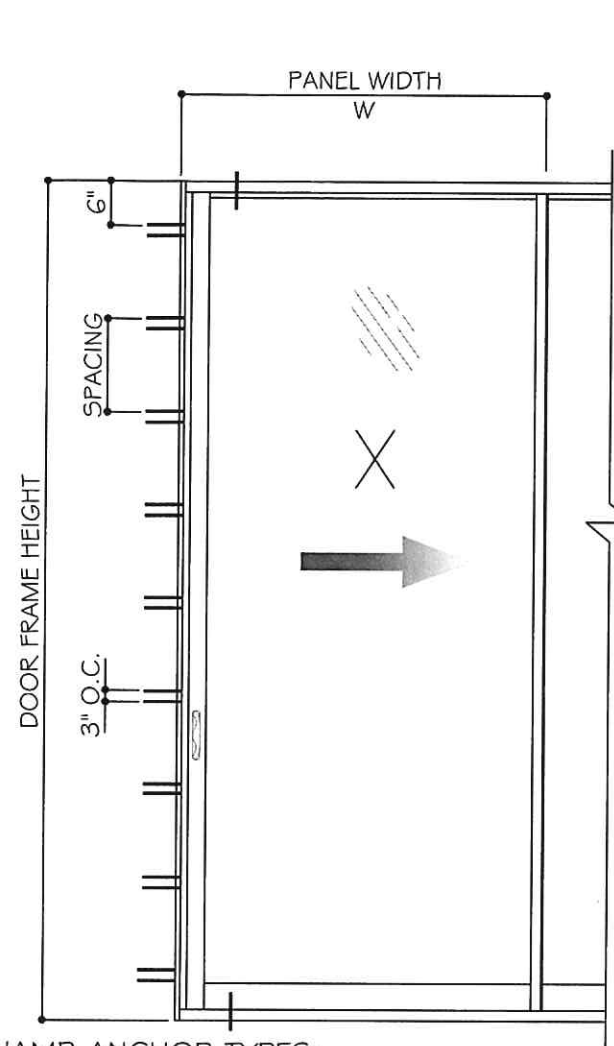
12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P. 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com



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.)

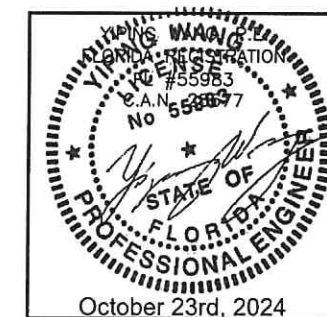
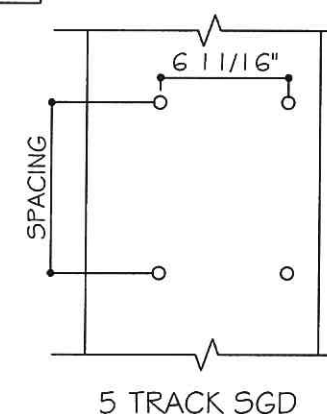
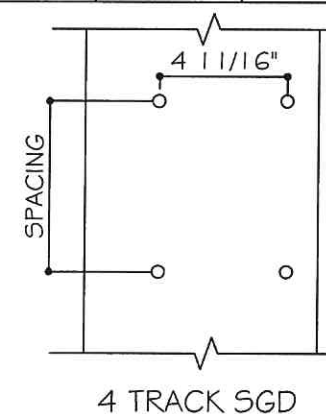
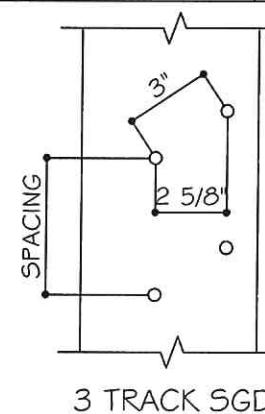
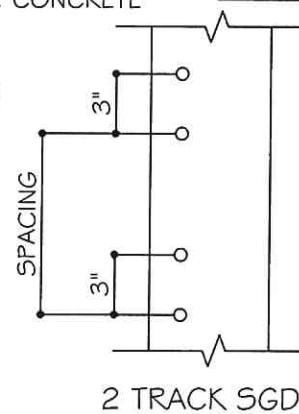
STEEL: 1/8" THK. MIN. ($F_y=36$ KSI, MIN.)

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≤72"	72"<W≤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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TEL: (305) 624-7775

ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

Rev.	Date	By	Description
1	10.08.2024	JAMES	REVISION

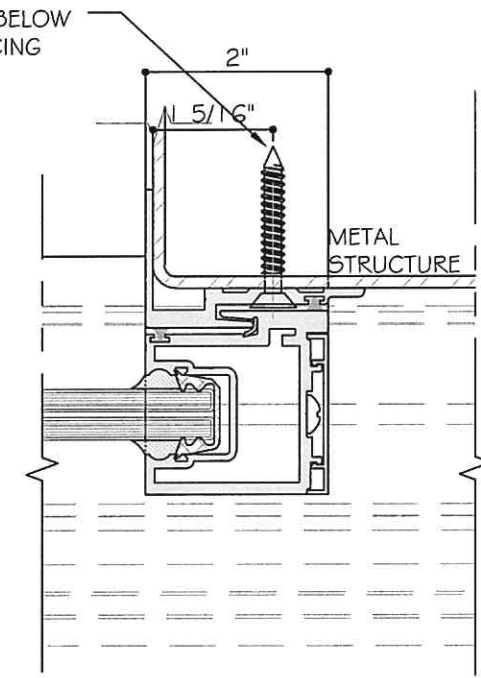
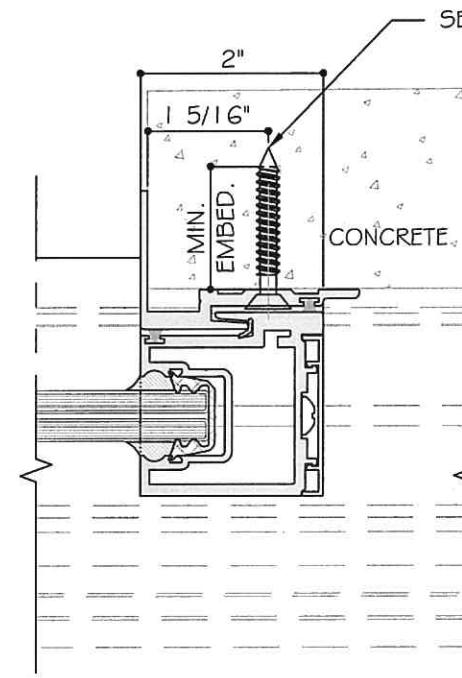
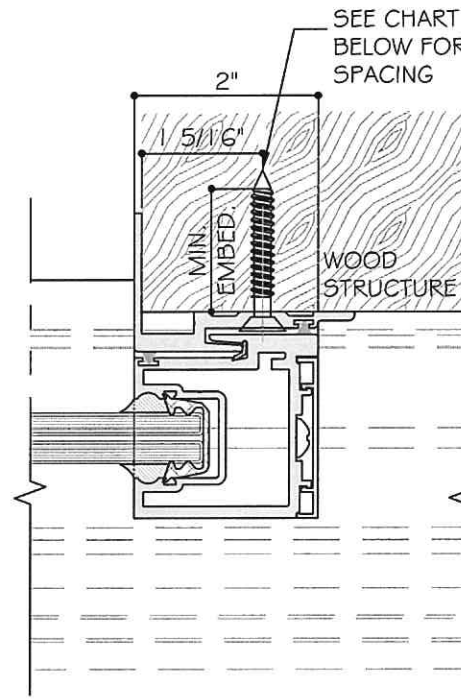
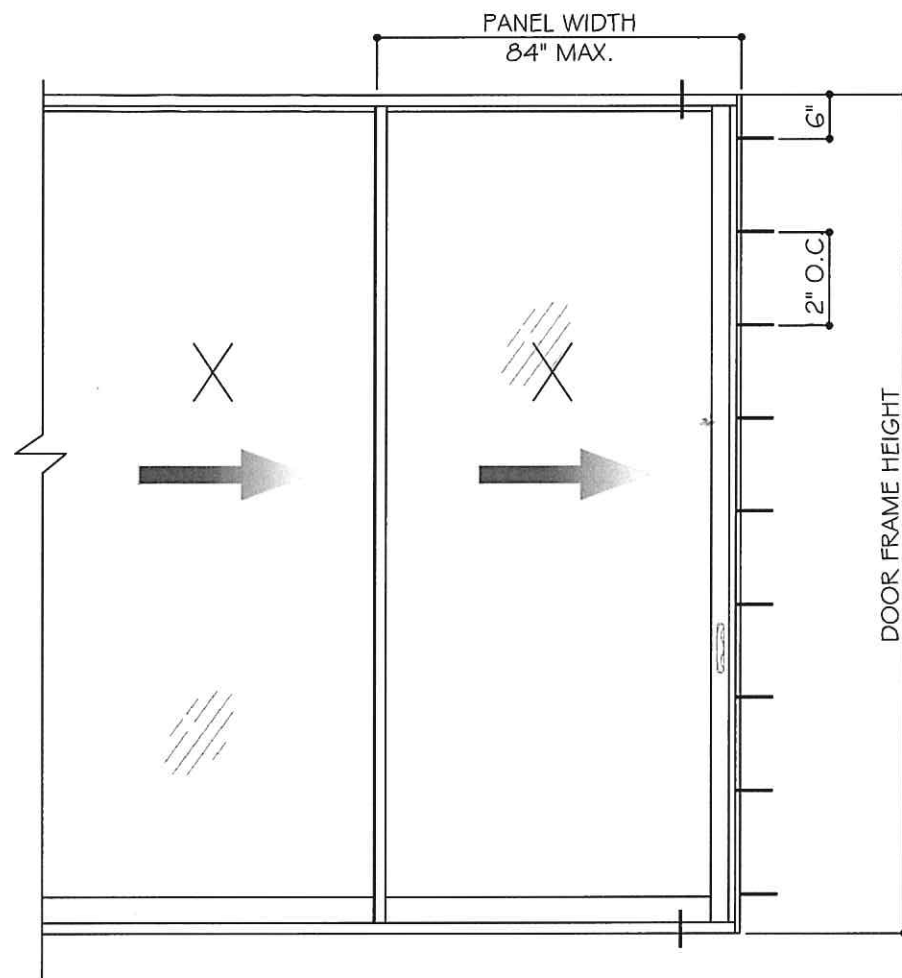
Drawn Date: 10.08.2024

Scale:

DRAWING NO. AD16-29

J3

Sheet No. 19 OF 59



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

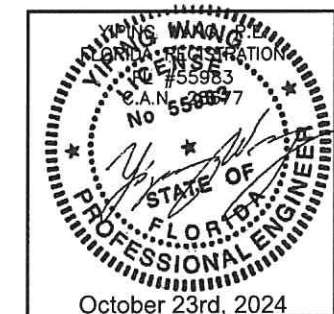
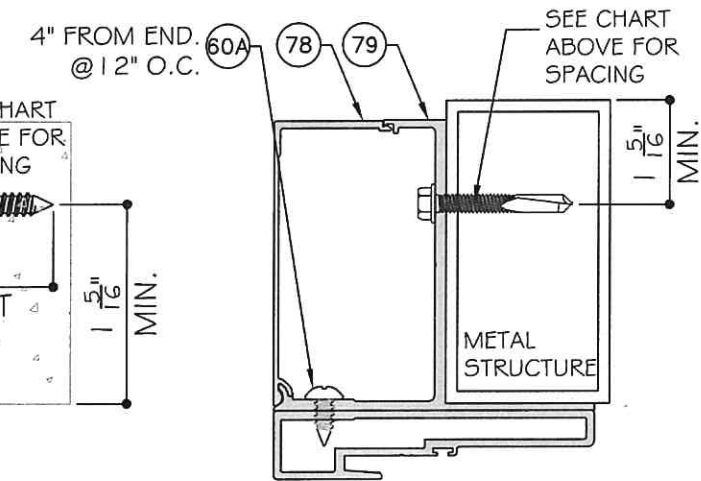
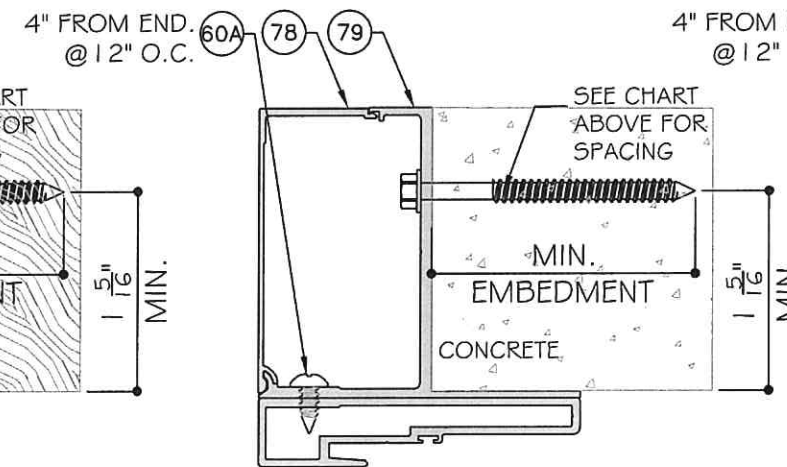
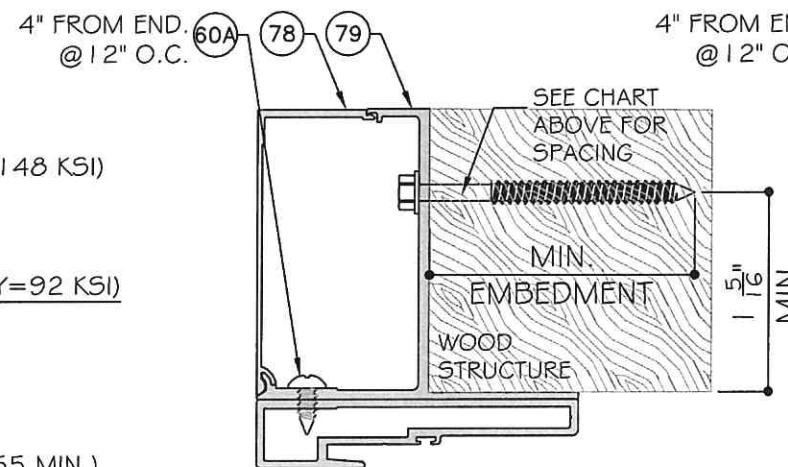
JAMB ANCHOR TYPES:

TYPE "B2": 1/4" DIA. ULTRACON+ BY DEWALT (F_u=164 KSI, F_y=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 (F_u=120 KSI, F_y=92 KSI)
INTO METAL STRUCTURE
ALUMINUM: 3/16" THK. MIN. (6063-T6 MIN.)
STEEL: 1/8" THK. MIN. (F_y=36 KSI, MIN.)

TYPE "D2A": 1/4" DIA. SMS (F_u=74 KSI, F_y=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.



HEAD ANCHOR CAPACITY - PSF								
SGD PANEL SIZES		ANCHOR TYPE "A" OR "AA"				ANCHOR TYPE "B"		
AVE. PANEL WIDTH	DOOR HEIGHT	A4 AA4	A6 AA6	A8 AA8	A10 AA10	B4	B6	B8
(IN)	(IN)	+/-	+/-	+/-	+/-	+/-	+/-	+/-
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	90	89.1	133.7	150.0	150.0	114.3	150.0	150.0
36		121.3	150.0	150.0	150.0	150.0	150.0	150.0
42		108.5	150.0	150.0	150.0	139.1	150.0	150.0
48		99.3	148.9	150.0	150.0	127.3	150.0	150.0
54		92.4	138.7	150.0	150.0	118.5	150.0	150.0
60		87.4	131.0	150.0	150.0	112.0	150.0	150.0
66		93.6	125.4	150.0	150.0	107.2	150.0	150.0
72		80.9	121.3	150.0	150.0	103.7	150.0	150.0
78	96	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		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	102	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		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	108	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		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	108	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	DOOR HEIGHT	A4 AA4	A6 AA6	A8 AA8	A10 AA10	B4	B6	B8
(IN)	(IN)	+/-	+/-	+/-	+/-	+/-	+/-	+/-
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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Drawn Date	10/08/2024	Scale	
DRAWING NO.	AD16-29		
Sheet No.	21 OF 59		

HEAD ANCHOR CAPACITY - PSF					
SGD PANEL SIZES		ANCHOR TYPE "BB"			
AVE. PANEL WIDTH	DOOR HEIGHT	BB4	BB6	BB8	BB10
(IN)	(IN)	+/-	+/-	+/-	+/-
78	84	77.8	116.7	150.0	150.0
84		77.4	116.1	150.0	150.0
78	90	68.6	103.0	137.3	150.0
84		67.7	101.6	135.4	150.0
36	96	97.2	145.8	150.0	150.0
42		86.7	130.0	150.0	150.0
48		79.0	118.5	150.0	150.0
54		73.3	109.9	146.6	150.0
60		68.9	103.4	137.9	150.0
66		65.7	98.5	131.3	150.0
72		63.2	94.8	126.4	150.0
78		61.4	92.1	122.8	150.0
84		60.2	90.3	120.4	150.0
36		90.3	135.4	150.0	150.0
42	102	80.3	120.4	150.0	150.0
48		72.9	109.4	145.8	150.0
54		67.4	101.1	134.8	150.0
60		63.2	94.8	126.4	150.0
66		60.0	89.9	119.9	149.9
72		57.5	86.2	114.9	143.6
76		55.6	83.3	111.1	138.9
84		54.2	81.3	108.3	135.4
36	108	84.3	126.4	150.0	150.0
42		74.7	112.1	149.4	150.0
48		67.7	101.6	135.4	150.0
54		62.4	93.6	124.8	150.0
60		58.3	87.5	116.7	145.8
66		55.2	82.7	110.3	137.9
72		52.7	79.0	105.3	131.7
78		50.7	76.1	101.5	126.8
36	114	79.0	118.5	150.0	150.0
42		69.9	104.8	139.8	150.0
48		63.2	94.8	126.4	150.0
54		58.1	87.2	116.2	145.3
60		54.2	81.3	108.3	135.4
66		51.1	76.6	102.1	127.7
72	120	48.6	72.9	97.2	121.5
36		74.4	111.5	148.7	150.0
42		65.7	98.5	131.3	150.0
48		59.3	88.9	118.5	148.1
54		54.4	81.5	108.7	135.9
60		50.6	75.8	101.1	126.4
66	120	47.5	71.3	95.1	118.9
72		45.1	67.7	90.3	112.9

HEAD ANCHOR CAPACITY - PSF					
SGD PANEL SIZES		ANCHOR TYPE "BB"			
AVE. PANEL WIDTH	DOOR HEIGHT	BB4	BB6	BB8	BB10
(IN)	(IN)	+/-	+/-	+/-	+/-
36	132	66.5	99.8	133.1	150.0
42		58.6	87.8	117.1	146.4
48		52.7	79.0	105.3	131.7
54		48.2	72.2	96.3	120.4
60		44.6	66.9	89.2	111.5
66	138	41.8	62.7	83.6	104.5
36		63.2	94.8	126.4	150.0
42		55.6	83.3	111.1	138.9
48		49.9	74.8	99.8	124.7
54		45.5	68.3	91.1	113.9
60	144	42.1	63.2	84.3	105.3
36		60.2	90.3	120.4	150.0
42		52.9	79.3	105.7	132.1
48		47.4	71.1	94.8	118.5
54		43.2	64.8	86.4	108.0
60	144	39.9	59.9	79.8	99.8

BB4 - A CLUSTER OF (4) ANCHORS TYPE "BB" AT INTERLOCK/ASTRAGAL
BB6 - A CLUSTER OF (6) ANCHORS TYPE "BB" AT INTERLOCK/ASTRAGAL
BB8 - A CLUSTER OF (8) ANCHORS TYPE "BB" AT INTERLOCK/ASTRAGAL
BB10 - A CLUSTER OF (10) ANCHORS TYPE "BB" AT INTERLOCK/ASTRAGAL
FOR ANCHOR TYPES & LAYOUT, SEE SHEET A7

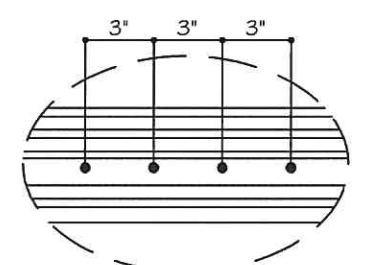
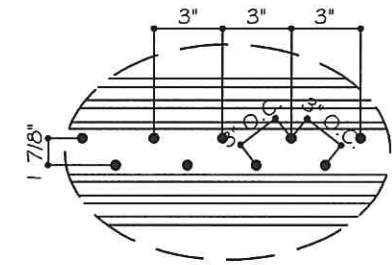
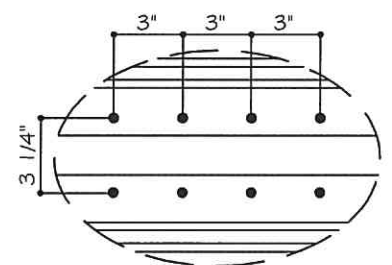
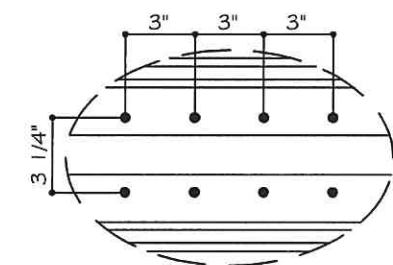
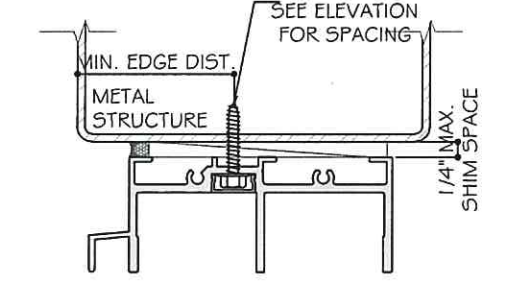
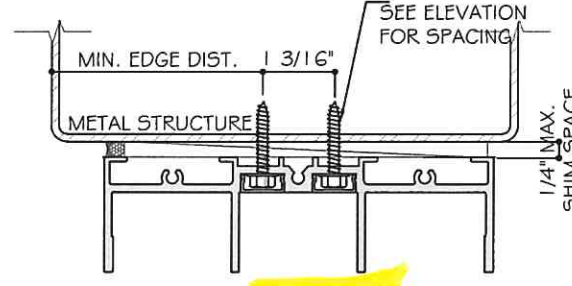
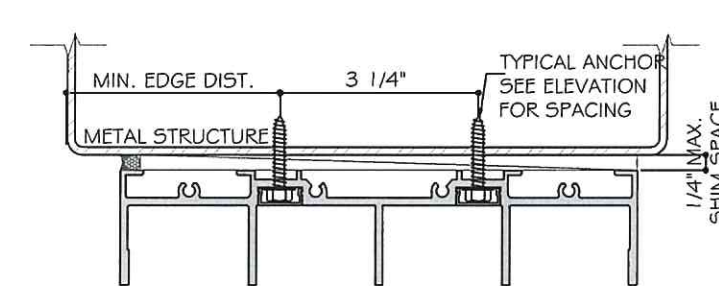
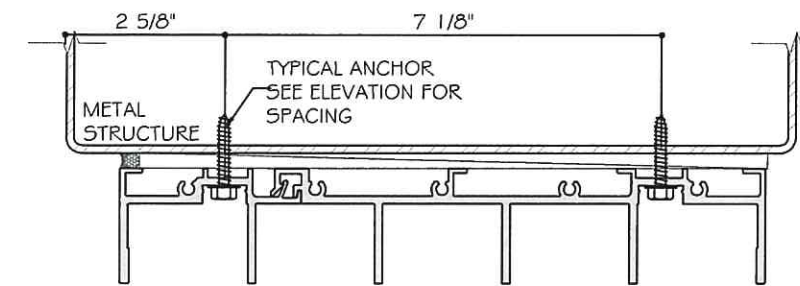
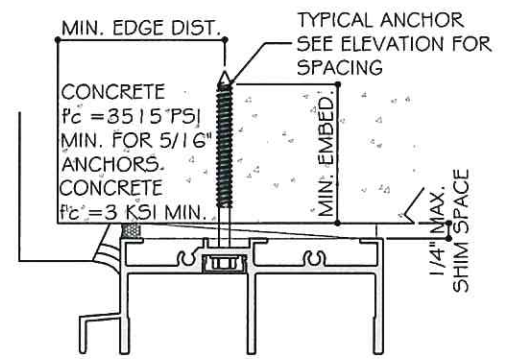
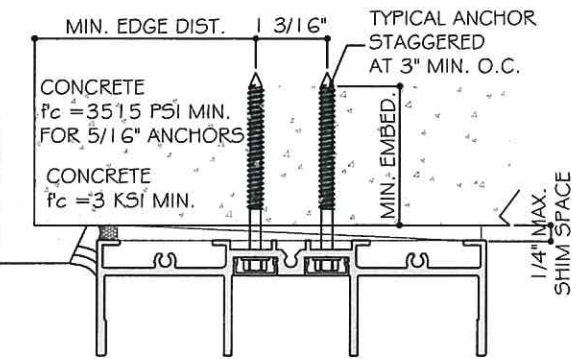
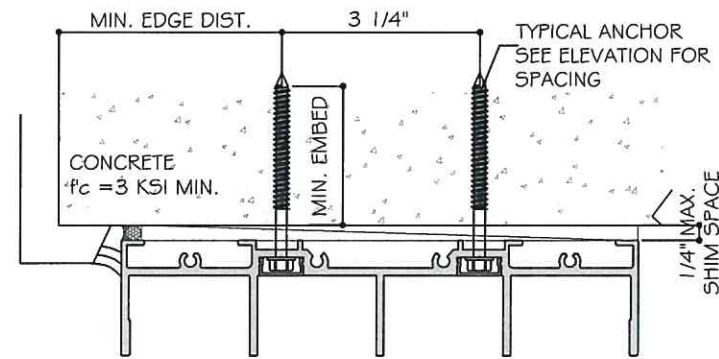
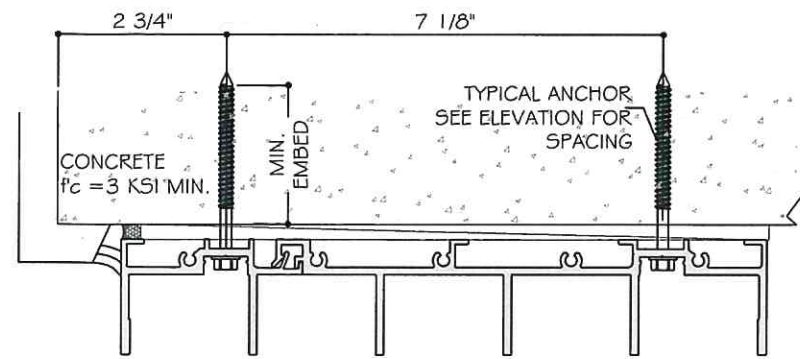


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Drawn Date	10.08.2024	Scale	
DRAWING NO.	AD16-29		
Sheet No.	A2		
22 OF 59			



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. ULTRACON+ 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. ULTRACON 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.

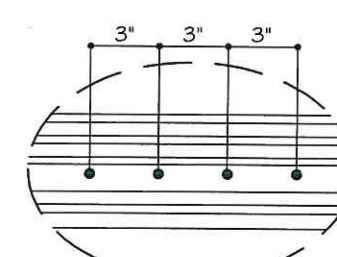
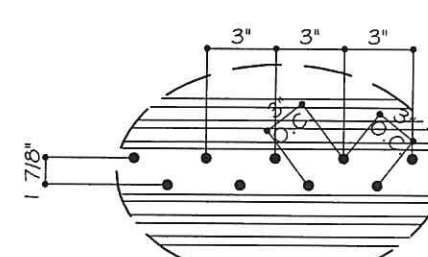
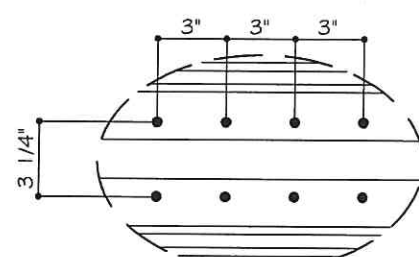
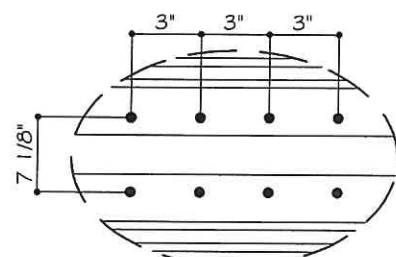
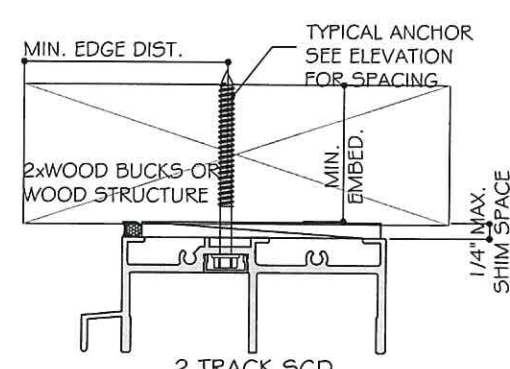
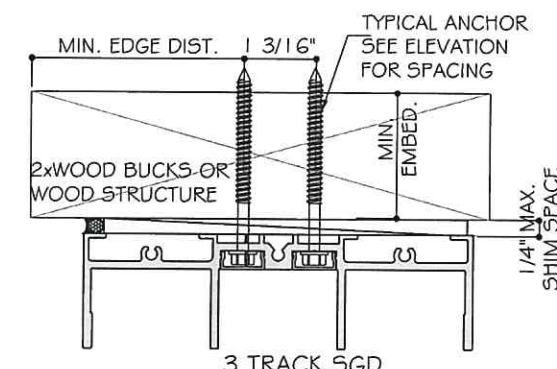
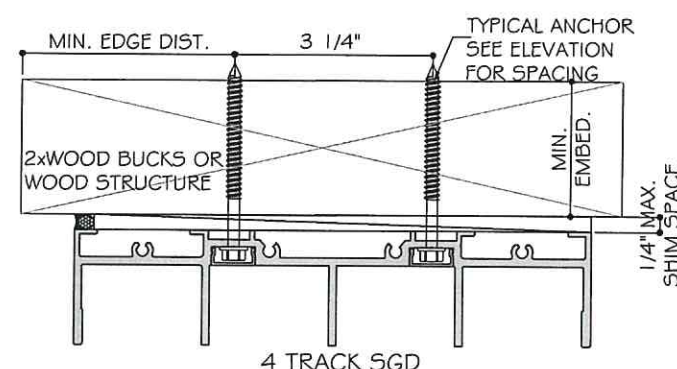
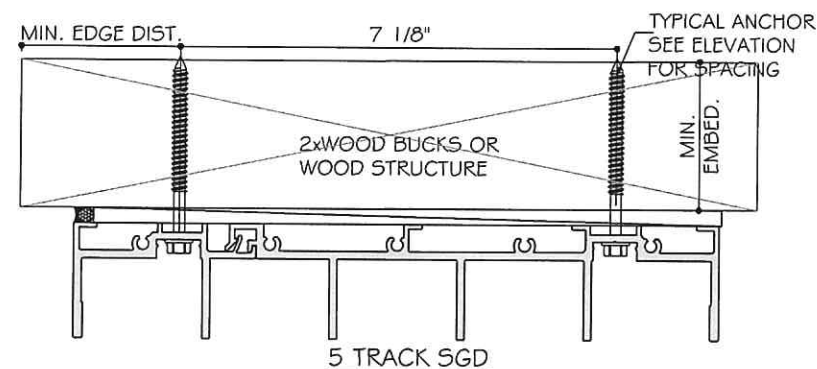
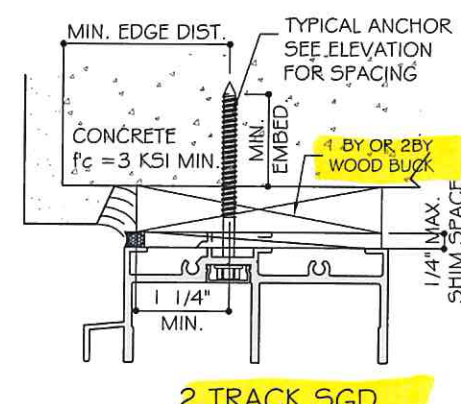
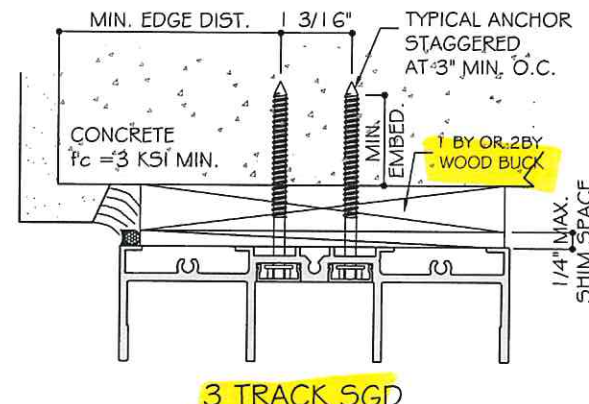
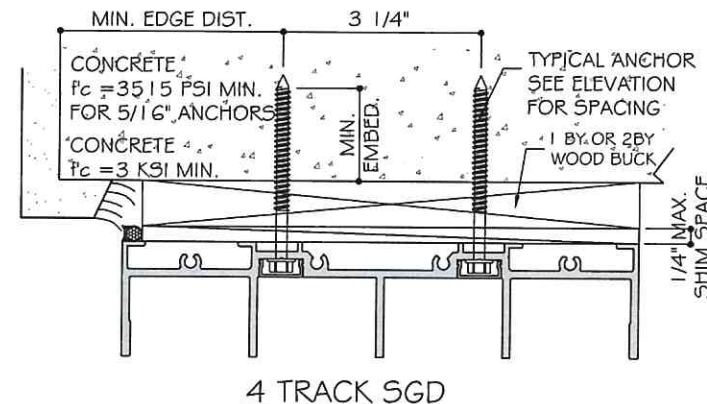
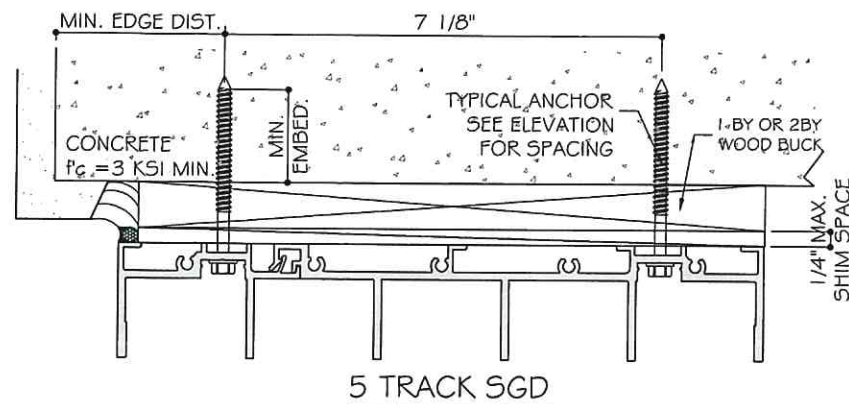
- C4 - A CLUSTER OF (4) TYPE "C" ANCHORS AT HEAD
- C6 - A CLUSTER OF (6) TYPE "C" ANCHORS AT HEAD
- D4 - A CLUSTER OF (4) TYPE "D" ANCHORS AT HEAD
- D6 - A CLUSTER OF (6) TYPE "D" ANCHORS AT HEAD
- D8 - A CLUSTER OF (8) TYPE "D" ANCHORS AT HEAD
- E4 - A CLUSTER OF (4) TYPE "E" ANCHORS AT HEAD
- E6 -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



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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)			
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02	10.08.2024	JAMES	REVISION
Drawn Date 10.08.2024		Scale	
DRAWING NO. AD16-29			
Sheet No. A6 26 OF 59			



HEAD ANCHOR TYPES:

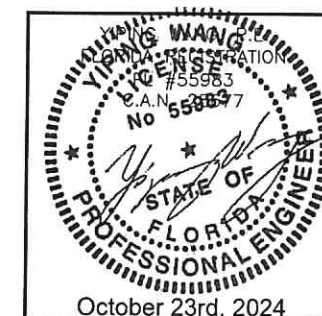
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 1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
 SG=0.55 MIN.
 OR THRU 1BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED
 INTO $f'_c = 3000 \text{ PSI}$ CONCRETE
 2 1/2" MIN. EDGE DISTANCE, 3" MIN. O.C.

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

TYPE "CC": 5/16" DIA. ULTRACON BY DEWALT ($F_u = 177 \text{ KSI}$, $F_y = 155 \text{ KSI}$)
 1 1/2" MIN. EMBED INTO 2XWOOD BUCKS OR WOOD STRUCTURE
 SG=0.55 MIN.
 OR THRU 1BY OR 2BY WOOD BUCK WITH 1 3/4" MIN. EMBED
 INTO $f'_c = 3515 \text{ PSI}$ 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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1	10-03-2024	Janez	REVISION

Drawn Date 10.08.2024 Scale

DRAWING NO. AD16-29

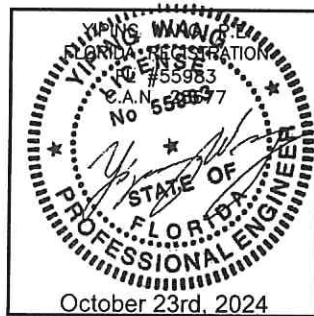
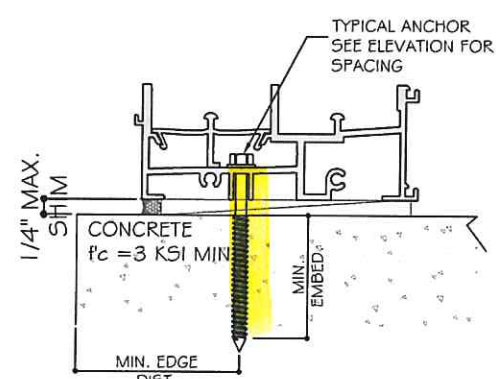
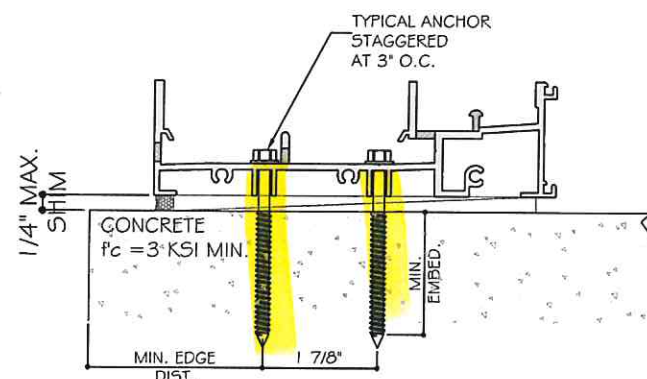
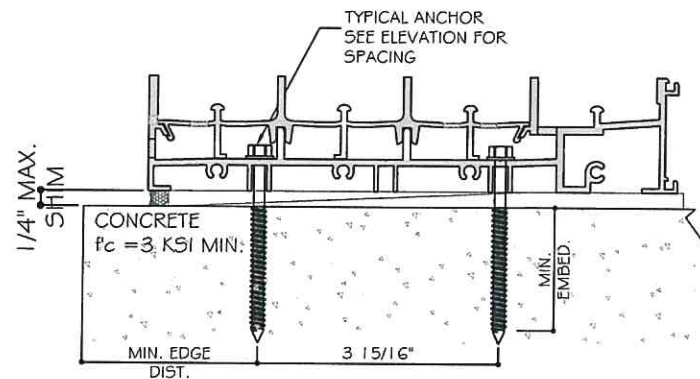
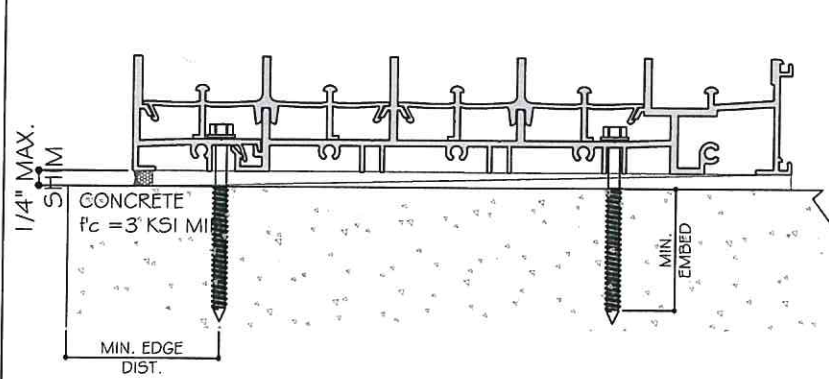
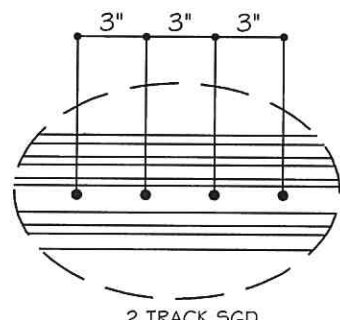
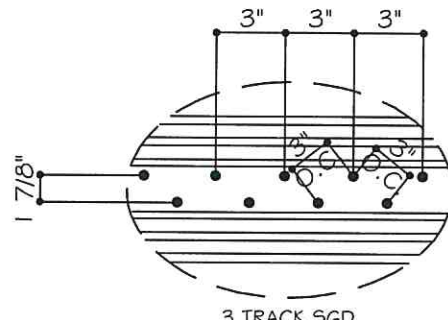
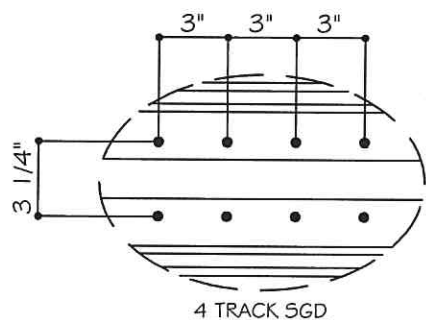
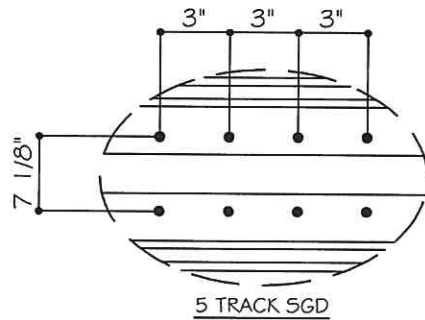
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Sheet No. 27 OF 59

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. ULTRAACON+ ($F_u=164$ 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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R2	10.08.2024	Jmc23	REVISED	

Drawn Date

10.08.2024

Scale

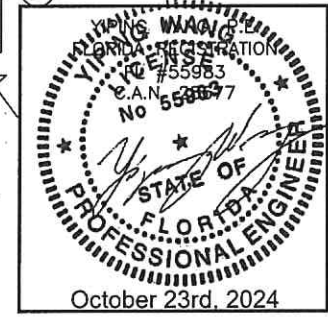
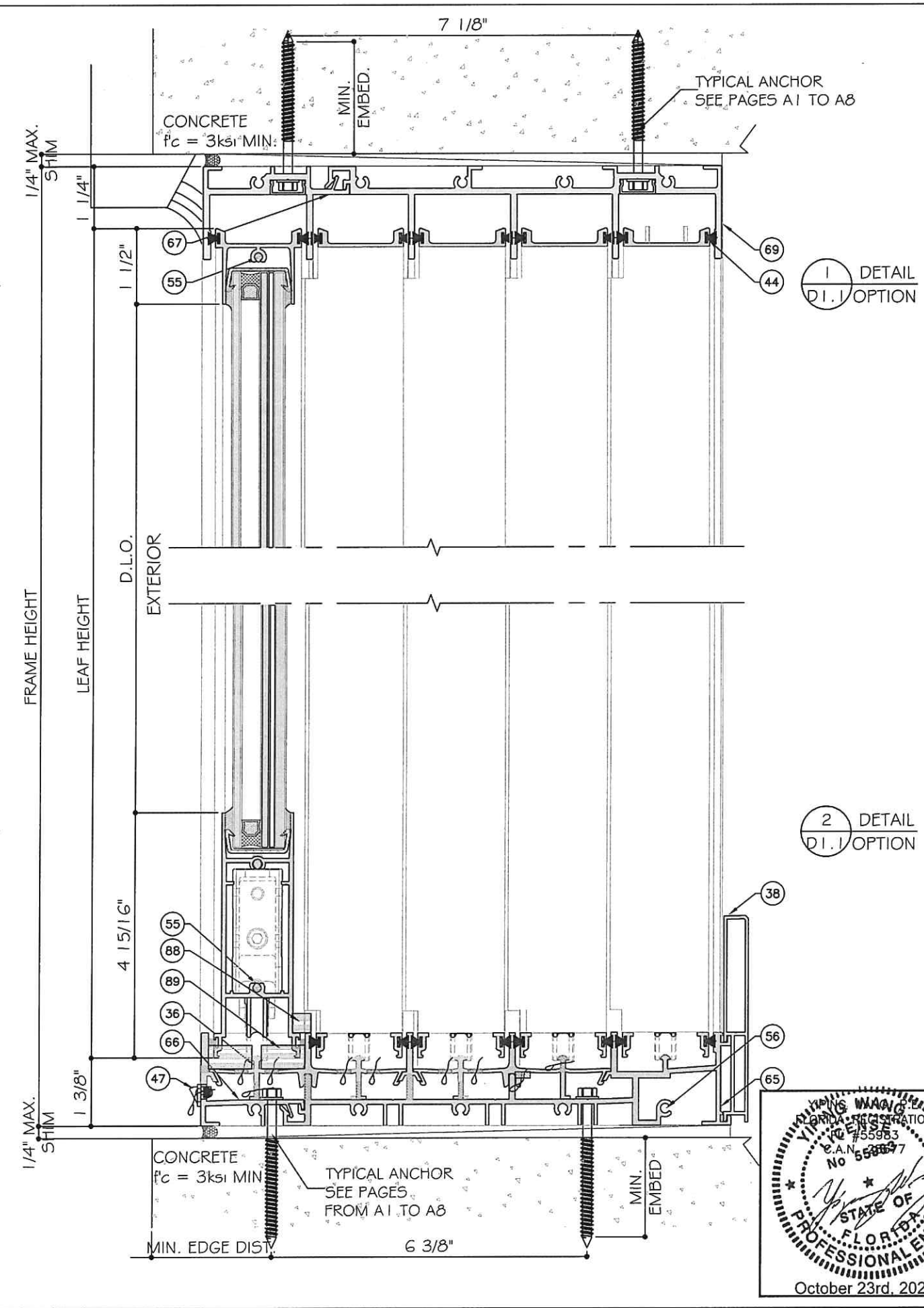
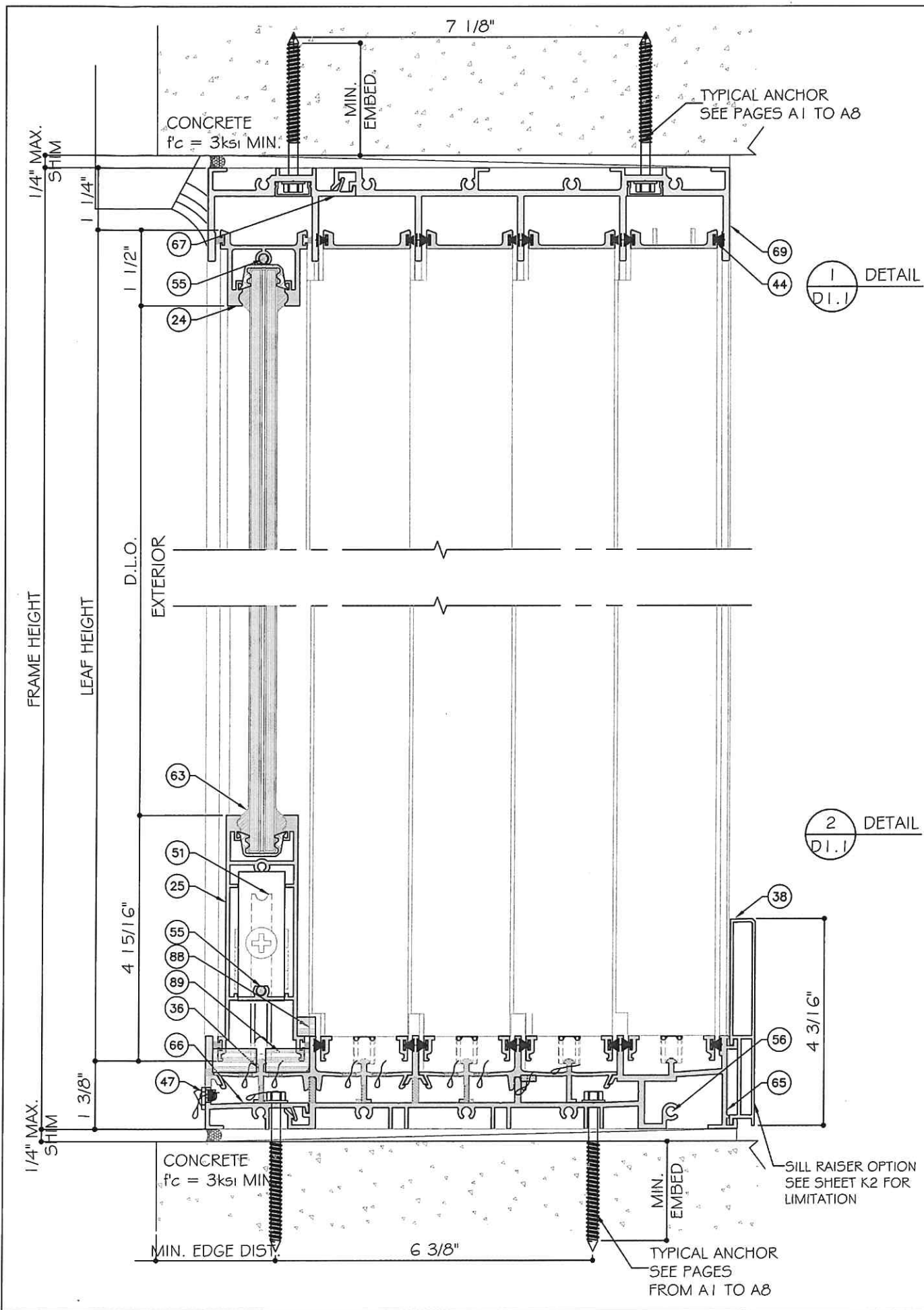
DRAWING NO.

AD16-29

A8

Sheet No.

28 OF 59



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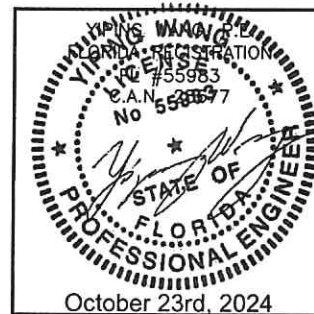
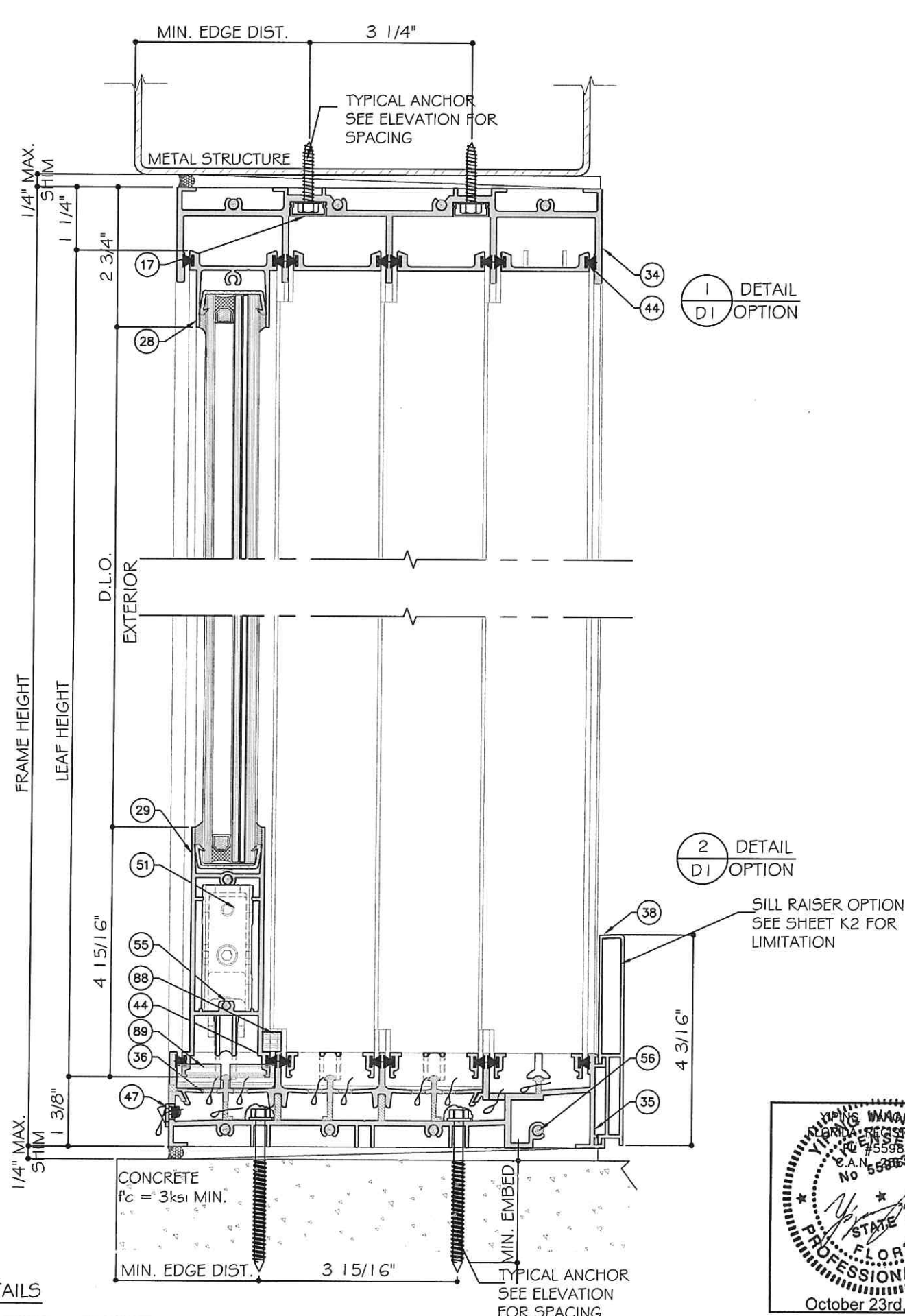
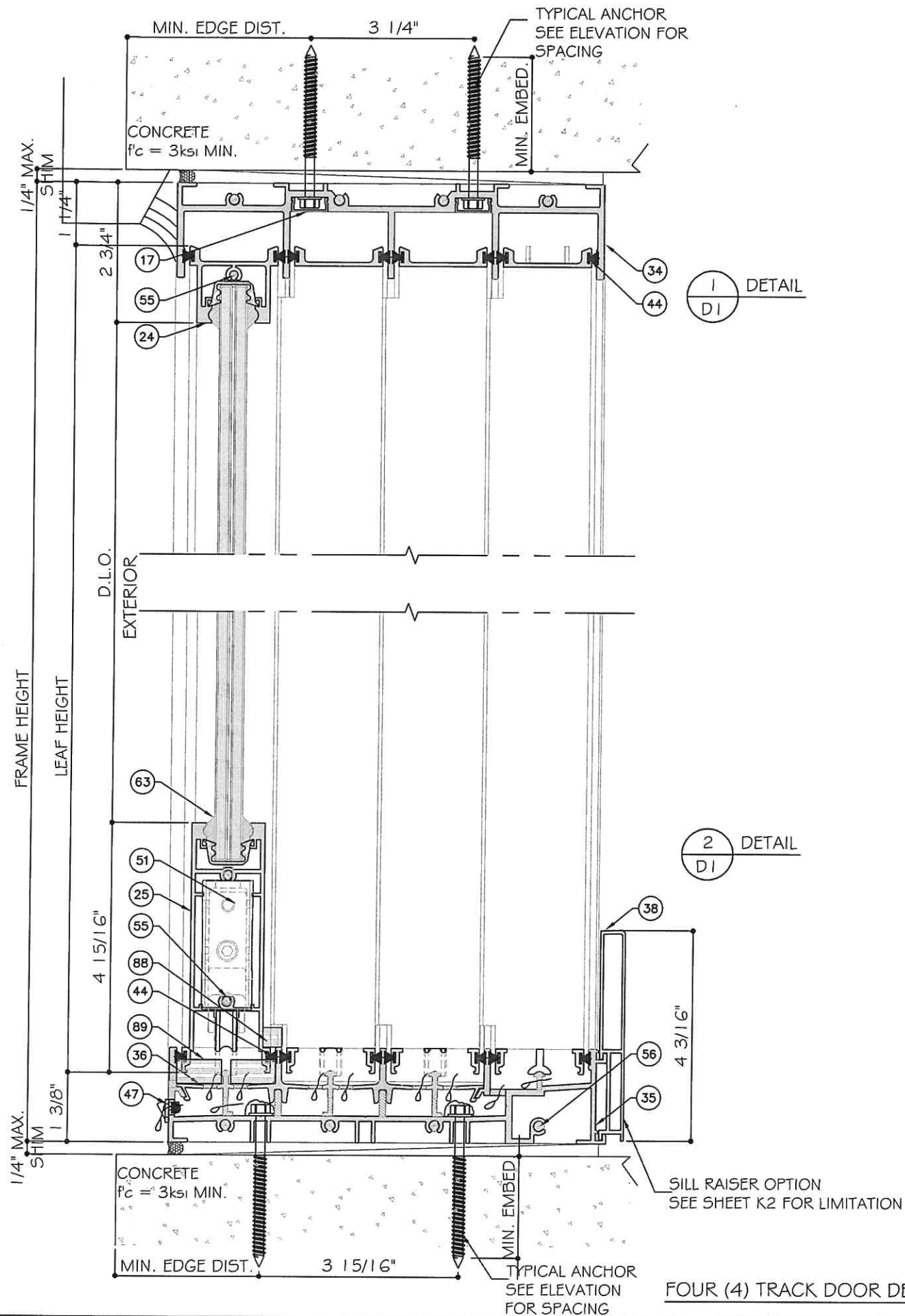
Rev. No.	Date	Drawn By	Description
10	08.2024	James	REVISION

Drawn Date
10.08.2024

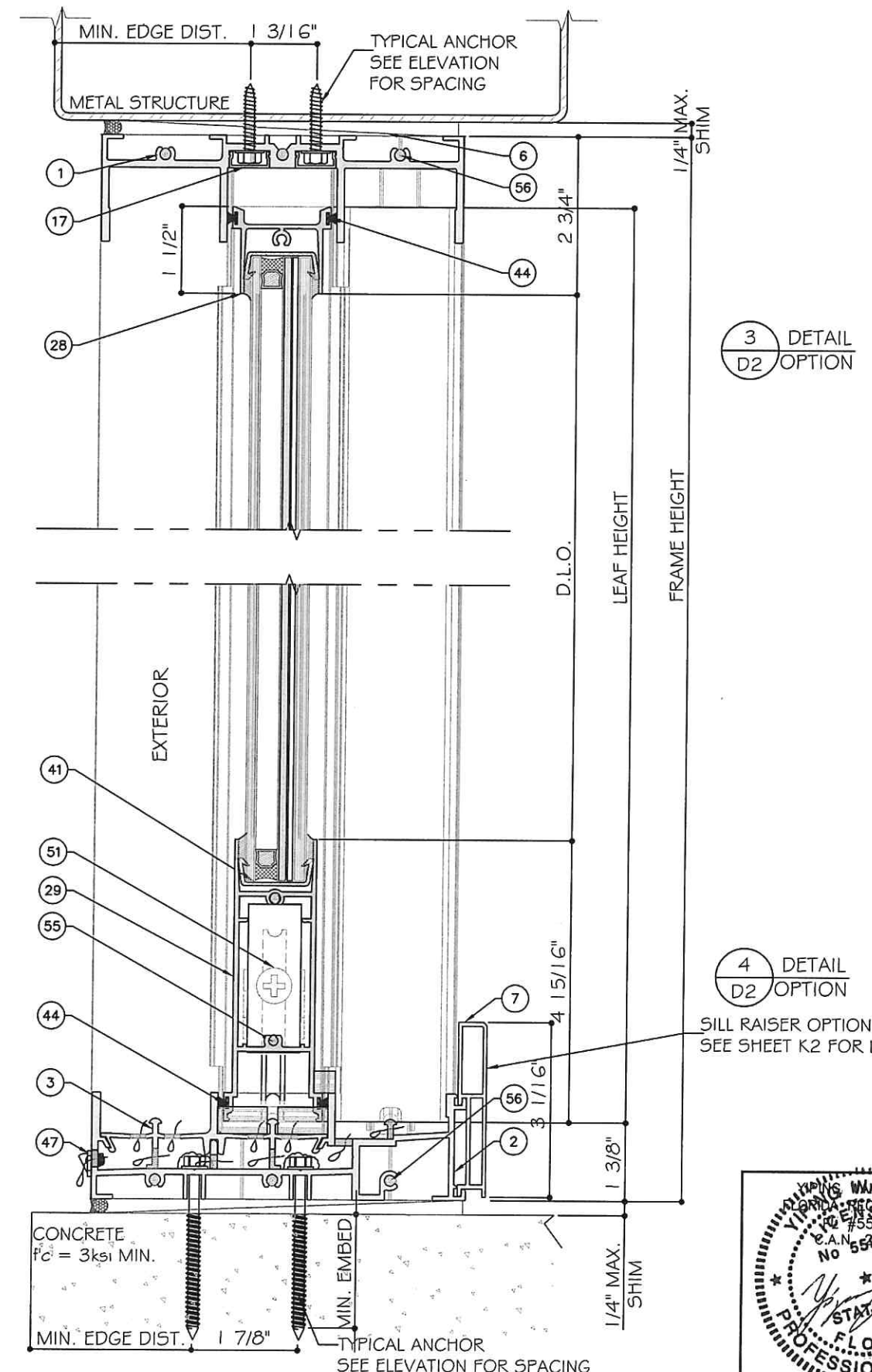
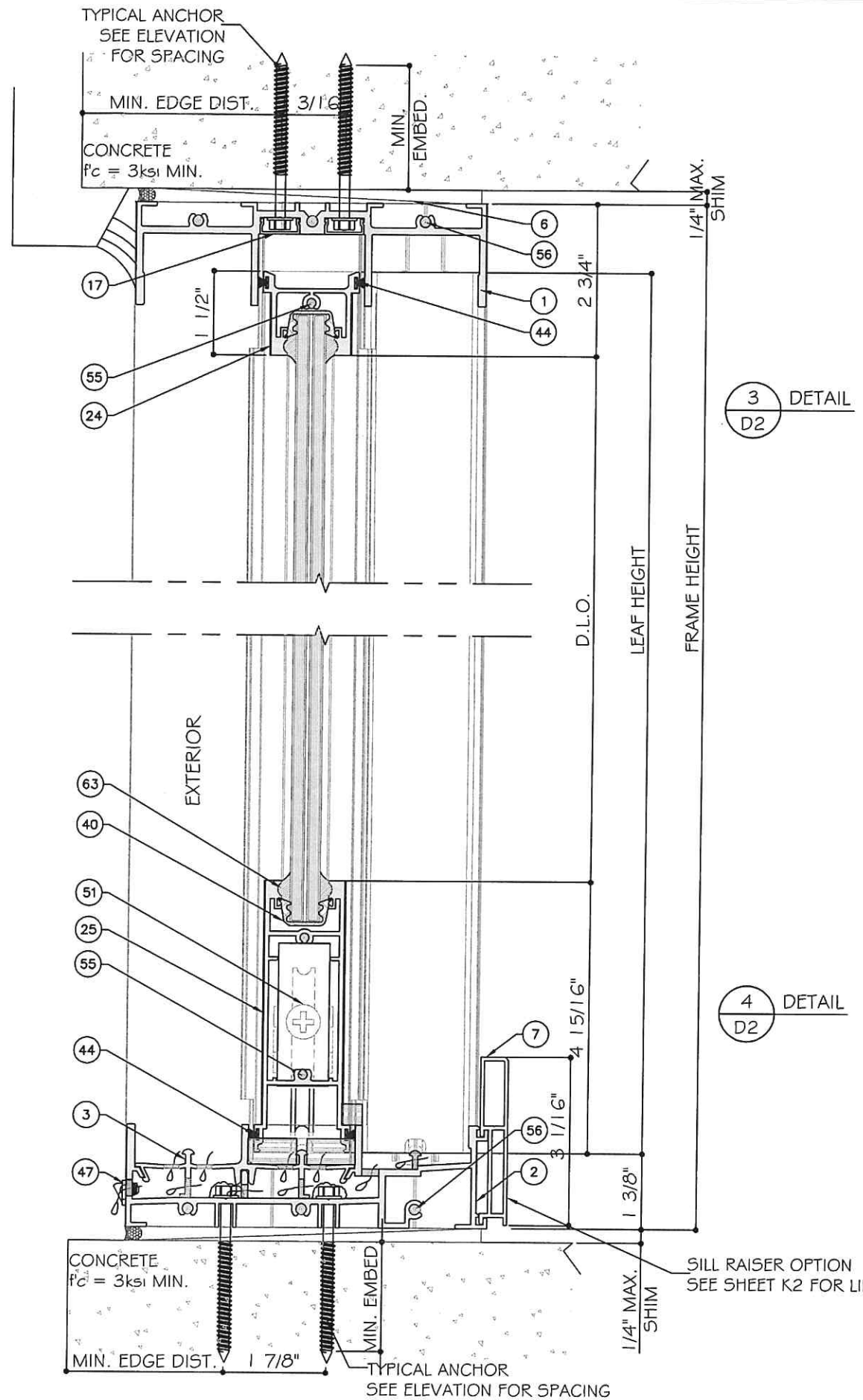
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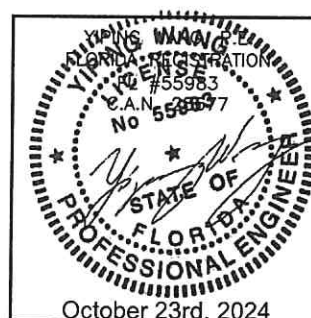
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29 OF 59



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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)			
Drawn Date	Scale	Revision	Description
10.08.2024		Rev. No.	Drawn By
DRAWING NO. AD16-29			
Sheet No. 30 OF 59			



THREE (3) TRACK DOOR DETAILS



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03	10-03-2024	James	REVISION	

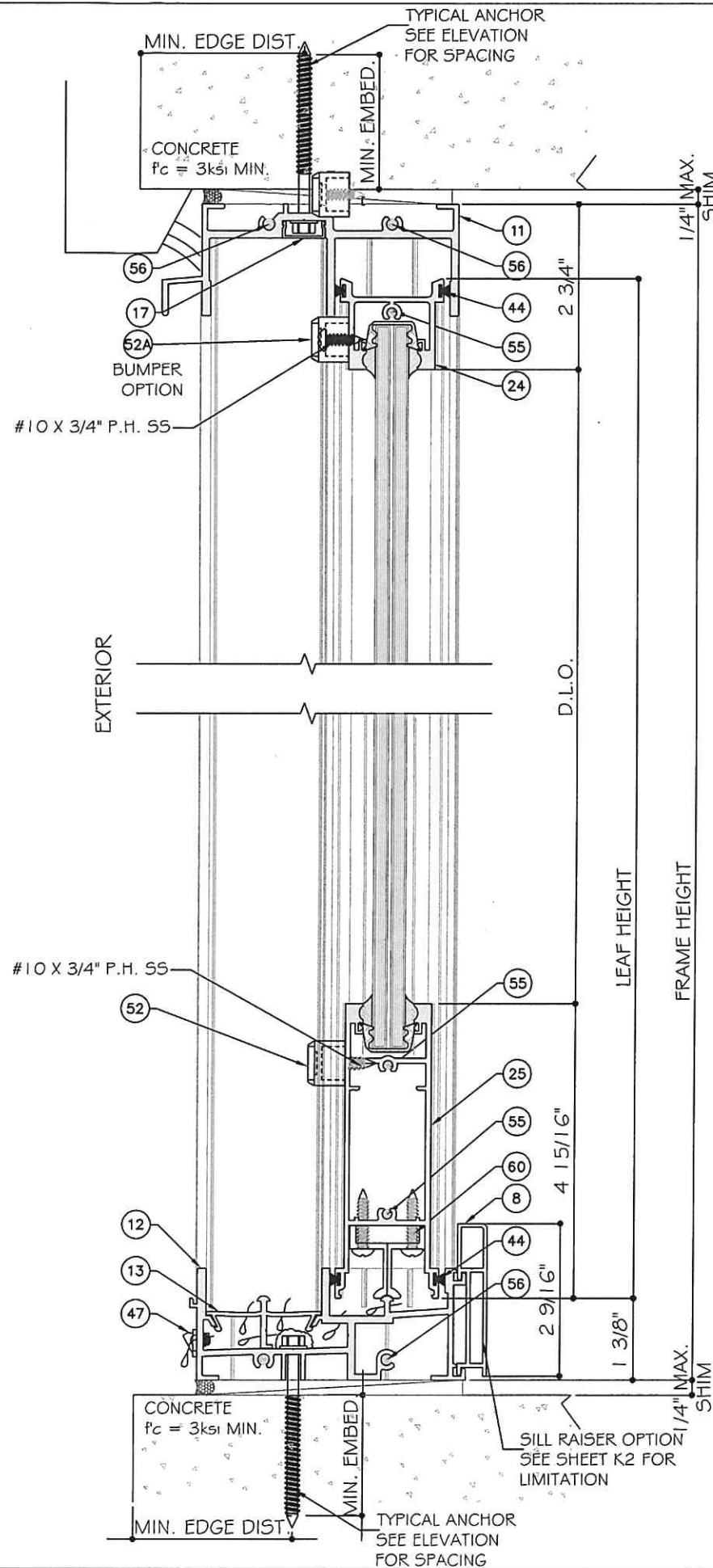
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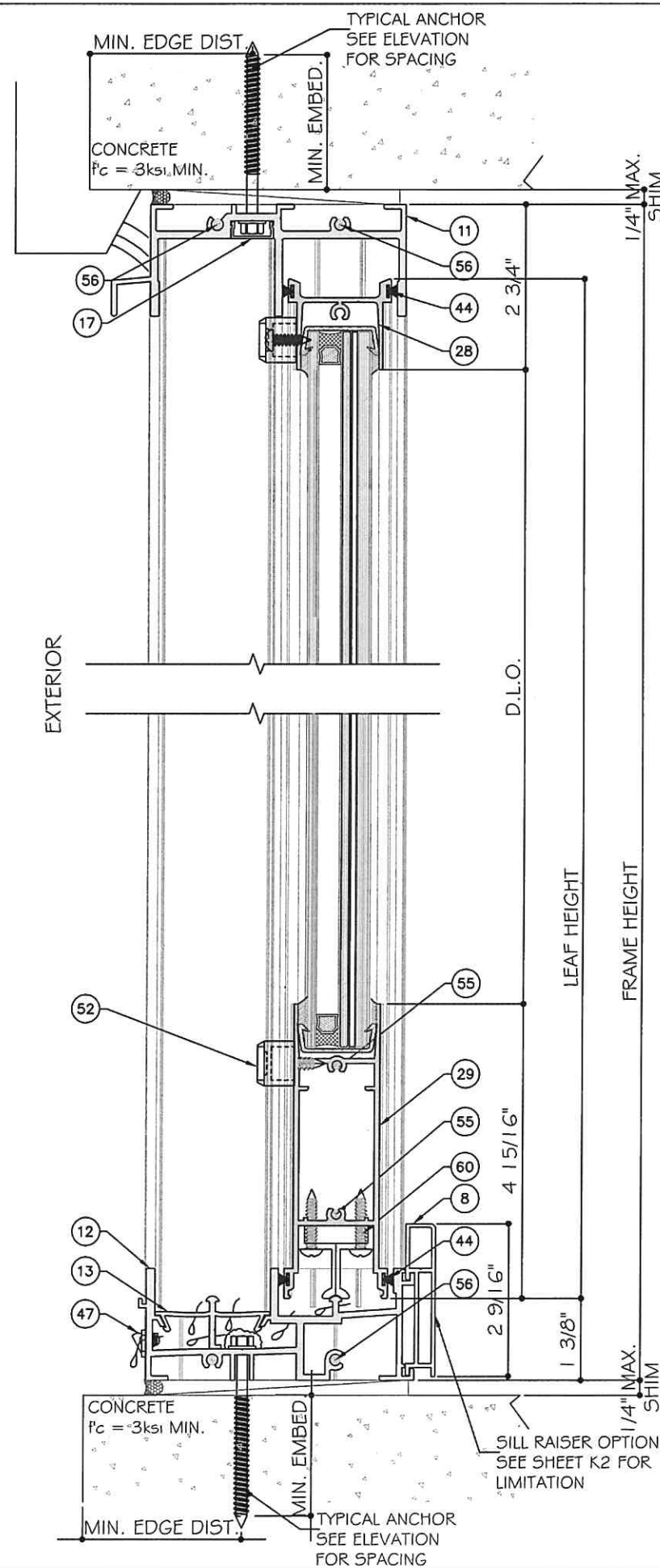
Sheet No. 31 OF 59



5
D3
DETAIL

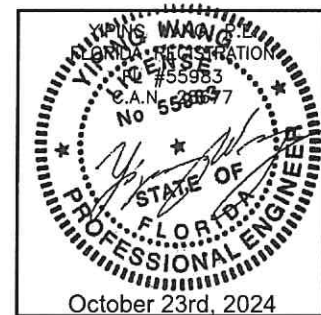
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D3
DETAIL

TWO (2) TRACK DOOR DETAILS



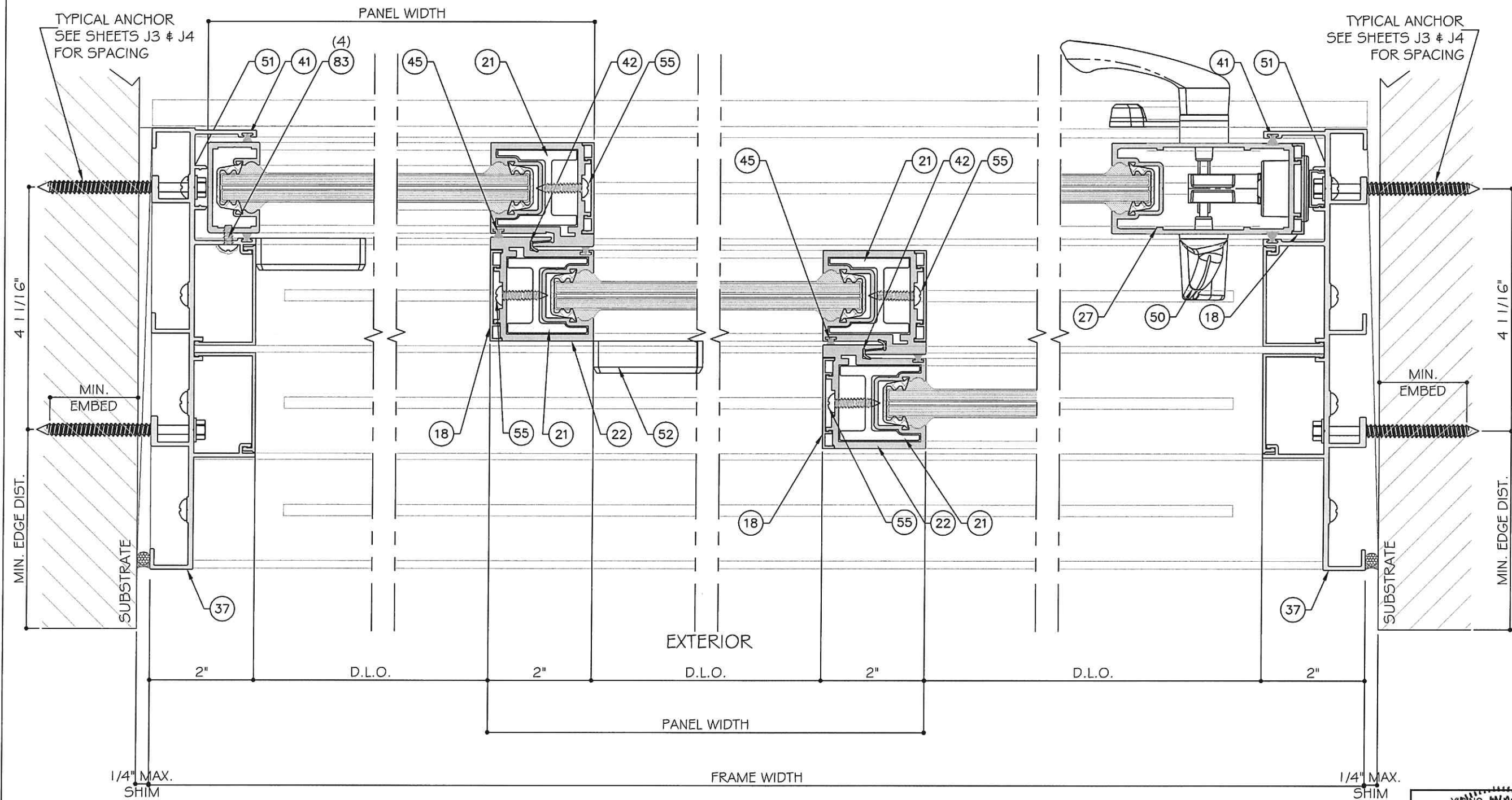
5
D3
DETAIL
OPTION

6
D3
DETAIL
OPTION



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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)	
Drawn Date 10.08.2024	Scale 1/4" = 1'-0"
Drawing No. AD16-29	Sheet No. 32 OF 59

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



7
D4
DETAIL

8
D4
DETAIL

9
D4
DETAIL

7A
D4
DETAIL

FOUR (4) TRACK DOOR DETAILS



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Rev. No.	Date	Drawn By	Description
20	10.08.2024	James	

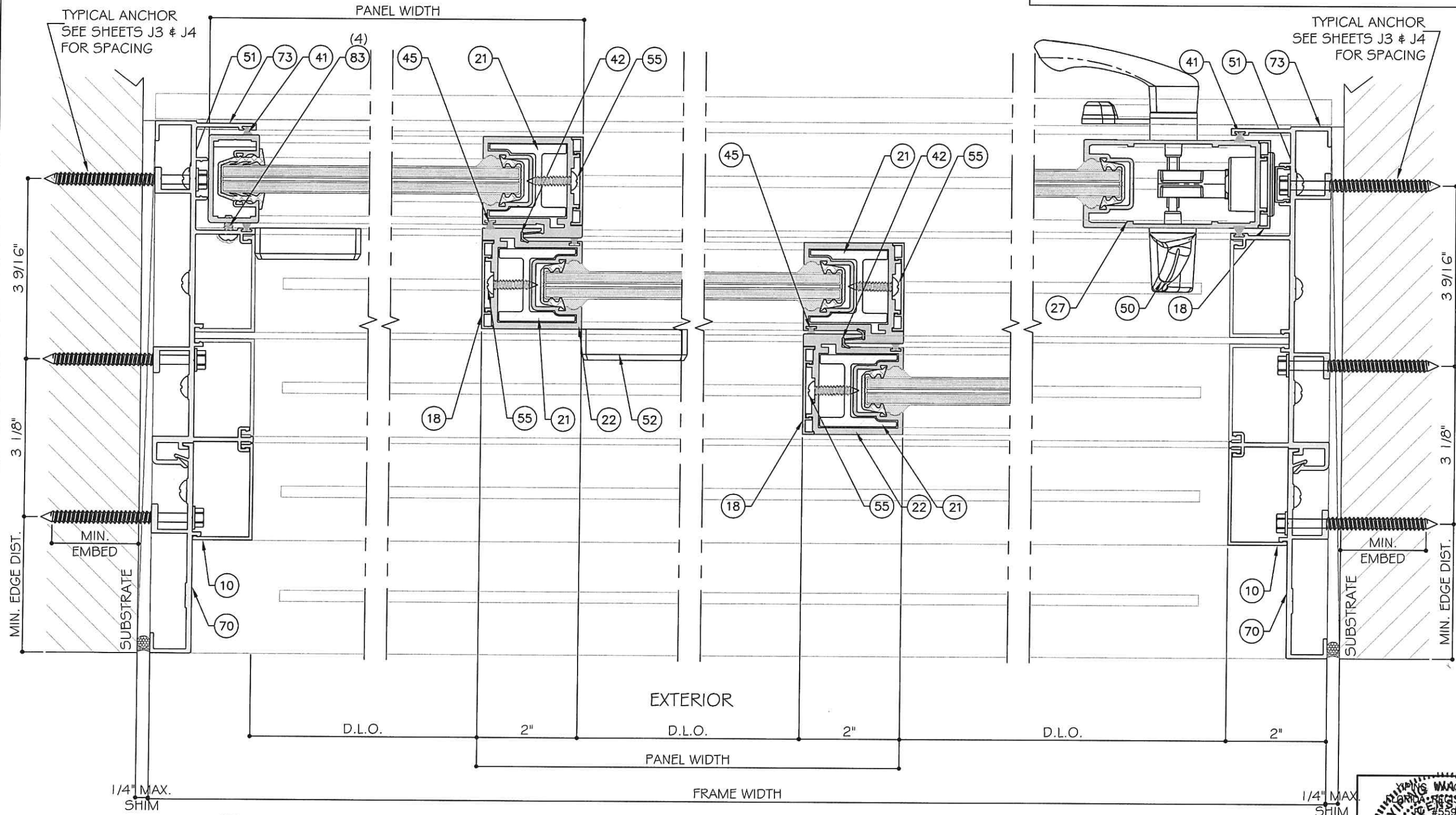
Drawn Date
10.08.2024

Scale

DRAWING NO.
AD16-29

D4

Sheet No.
33 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.

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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Drawn Date
10.08.2024

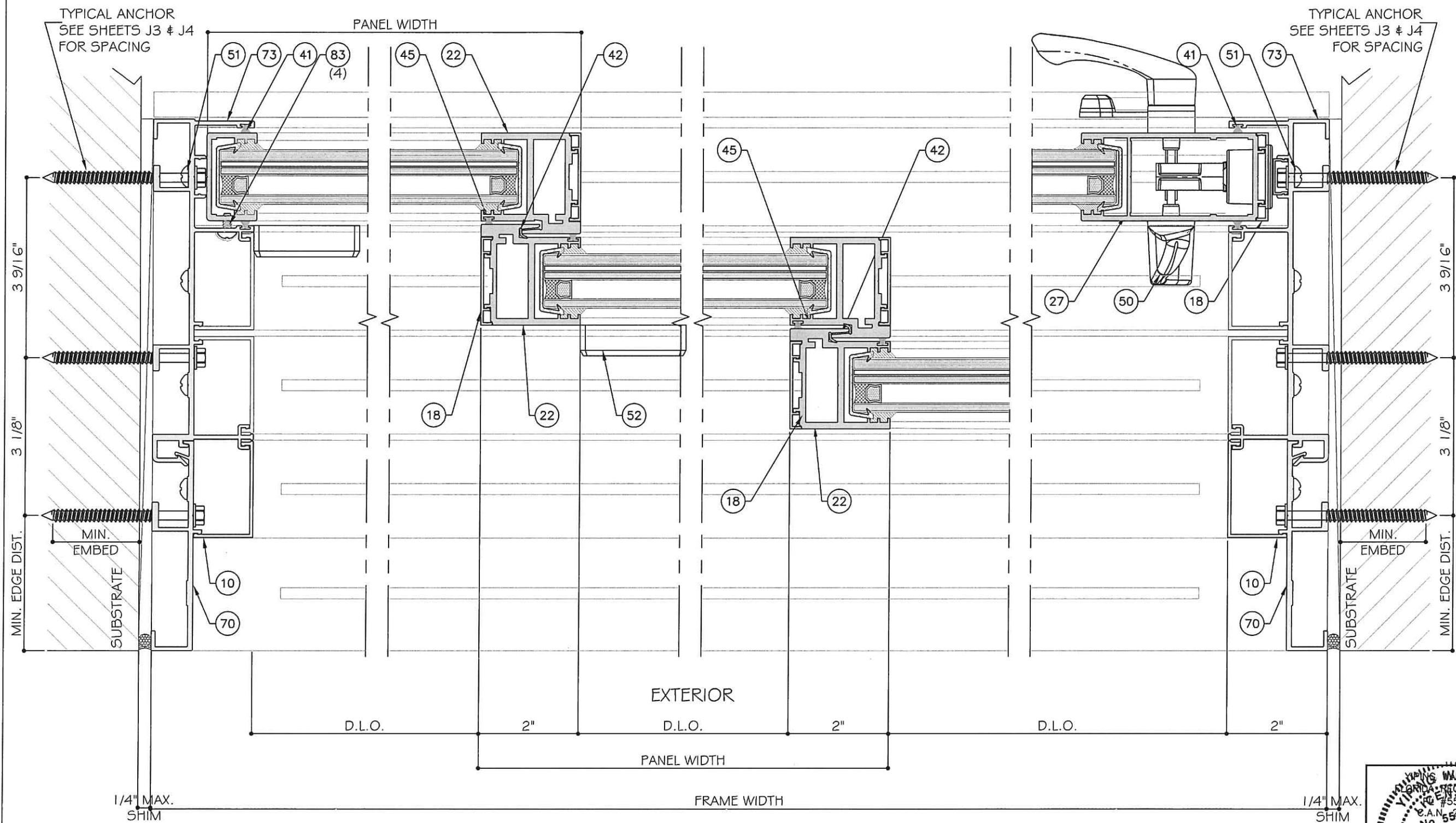
Drawing No.
AD16-29

Sheet No.
34 OF 59

Scale
D4.1

October 23rd, 2024

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



13
D4.2
DETAIL

14
D4.2
DETAIL

15
D4.2
DETAIL

13A
D4.2
DETAIL

FIVE (5) TRACK DOOR DETAILS



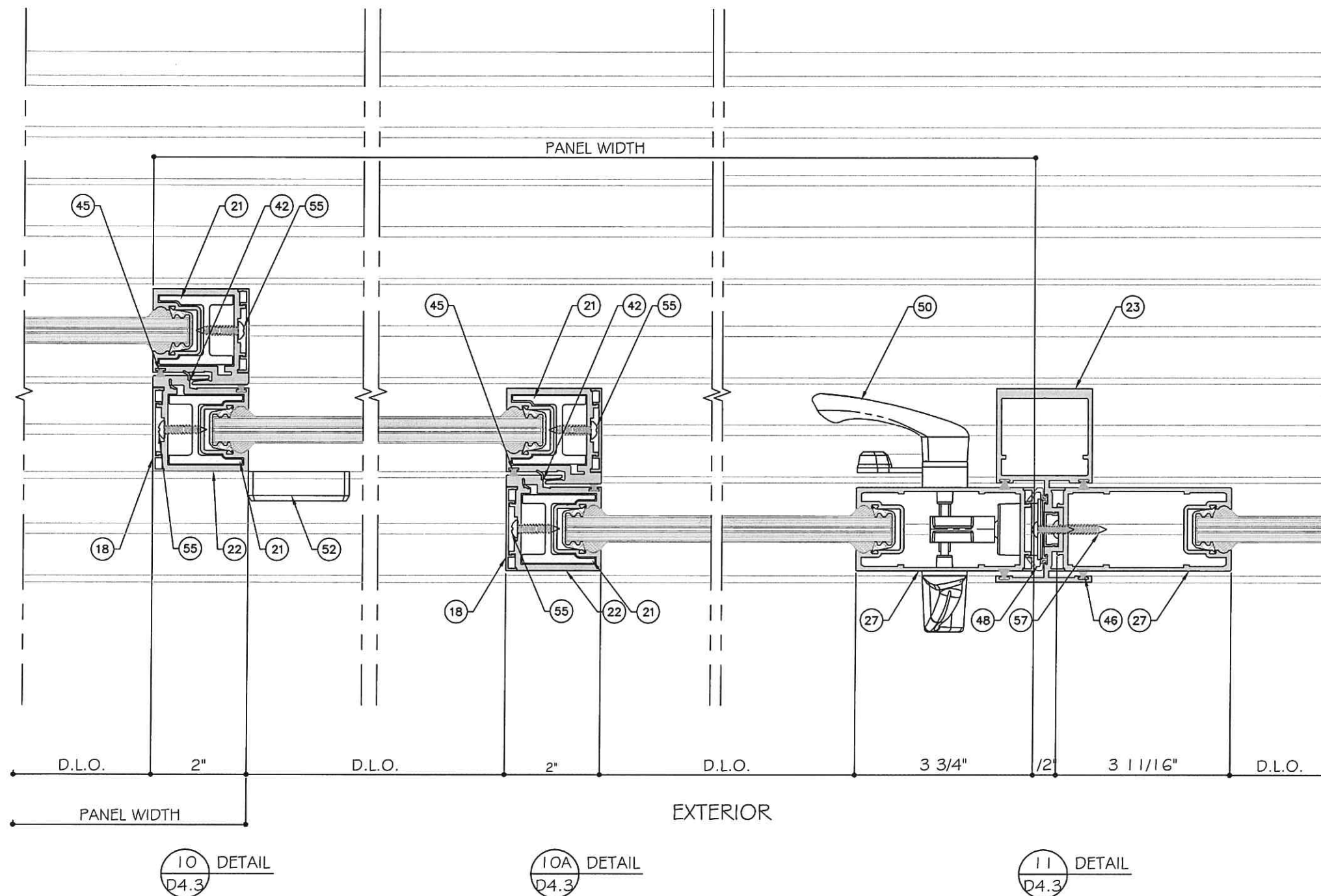
MCY ENGINEERING, INC.
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MIRAMAR, FL 33027
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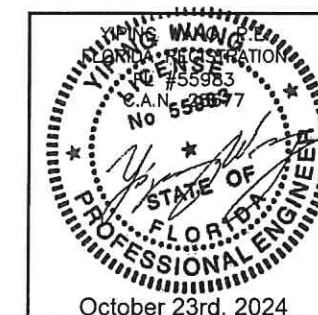
REV	DATE	BY	DESCRIPTION
1	10.08.2024	JAMES	REVISION

Drawn Date: 10.08.2024
Scale:
Drawing No.: AD16-29
Sheet No.: 35 OF 59

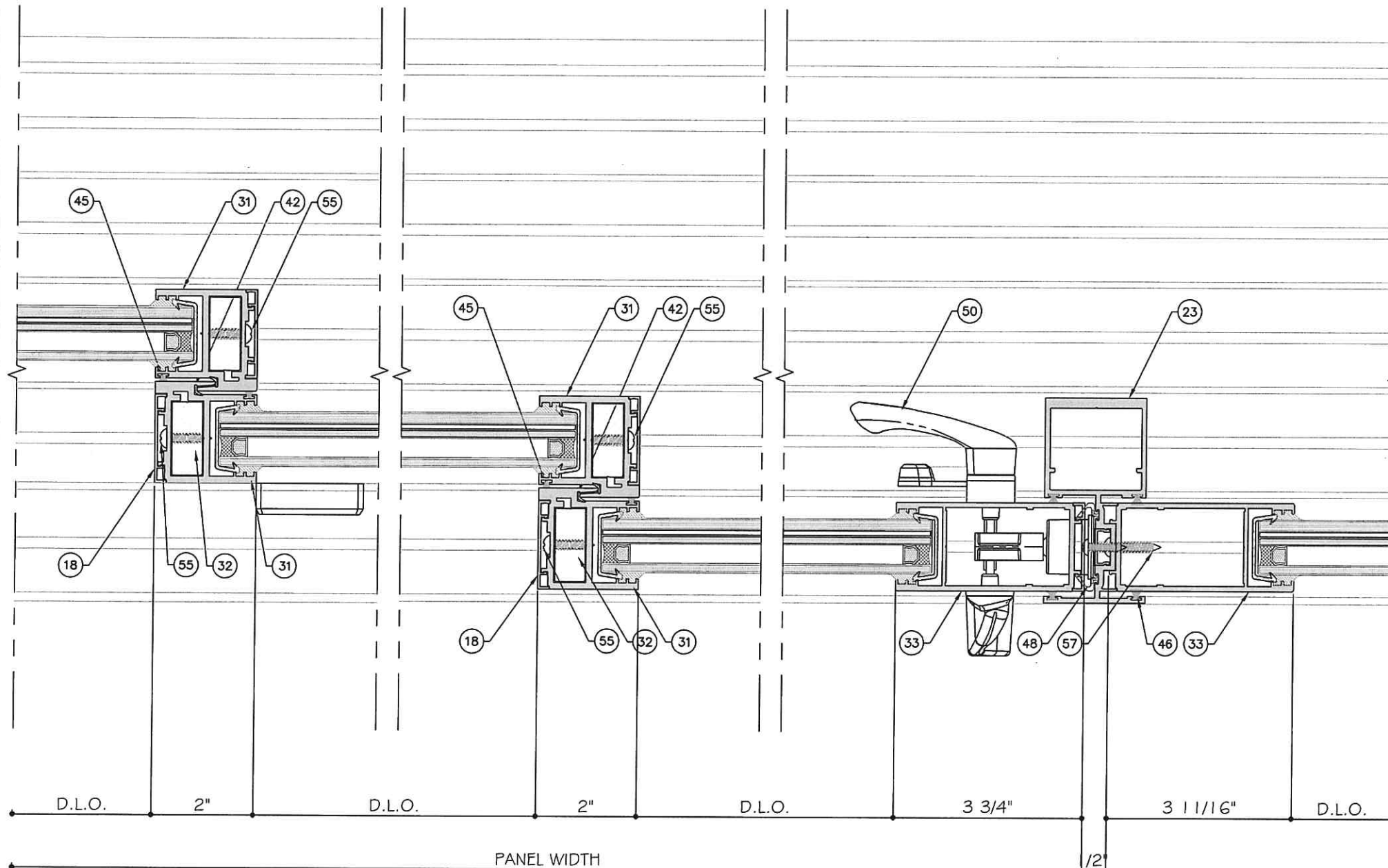


STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

FIVE (5) TRACK DOOR DETAILS



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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)			
Drawn Date	Scale	DRAWING NO.	
10.08.2024		AD16-29	
Rev. No.	Rev. No.	Rev. No.	Rev. No.
1	1	1	1
Drawn By	Drawn By	Drawn By	Drawn By
James	James	James	James
Date	Date	Date	Date
10.08.2024	10.08.2024	10.08.2024	10.08.2024
Revision	Revision	Revision	Revision
Sheet No. 36 OF 59			



16 DETAIL
D4.4

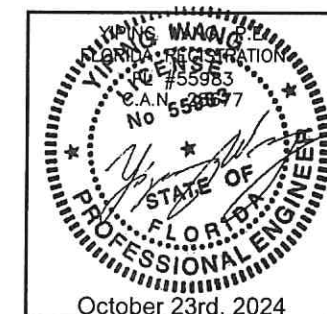
16A DETAIL
D4.4

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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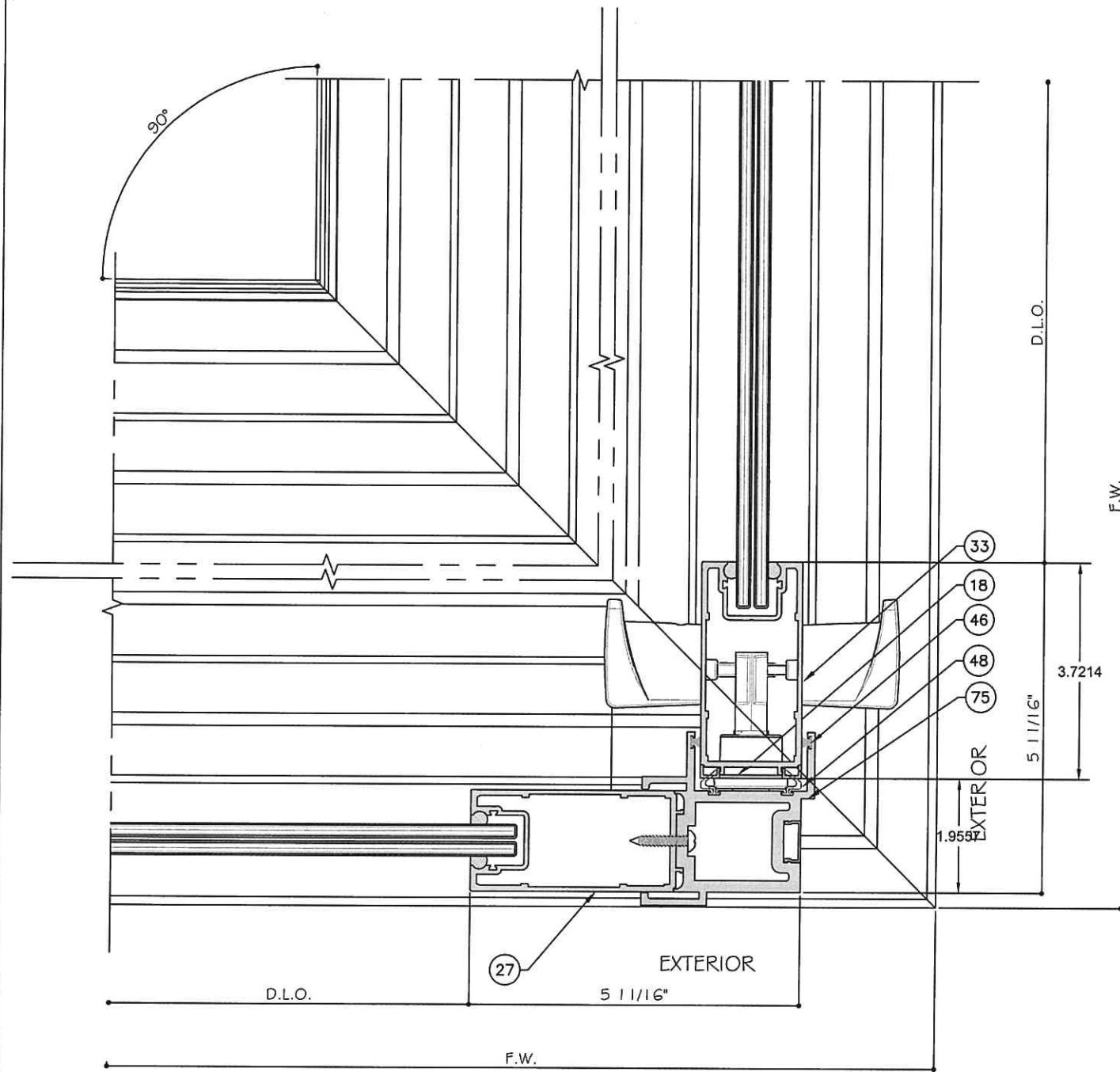
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ES 10.08.2024			REVISION

Drawn Date
10.08.2024

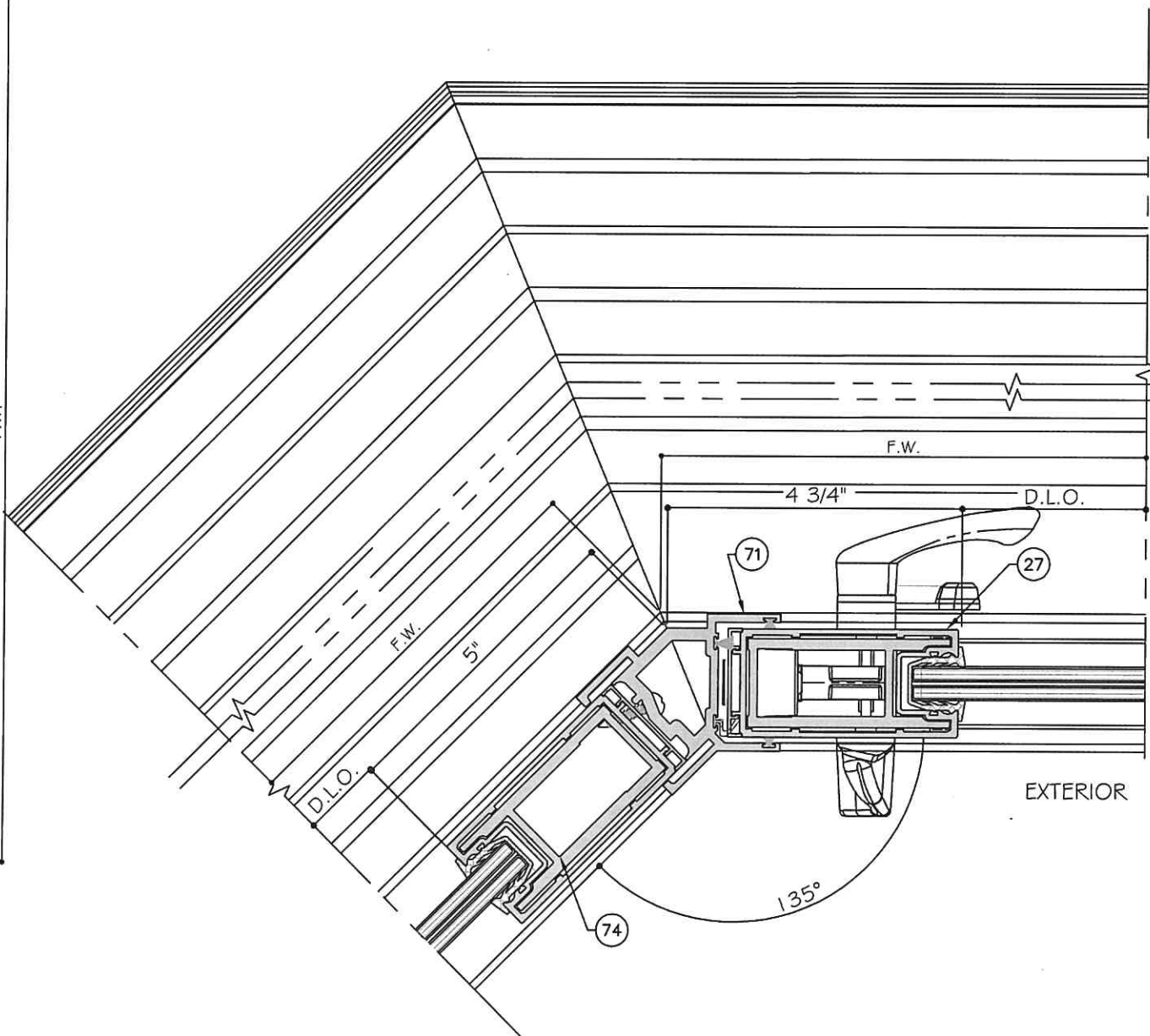
Scale

DRAWING NO.
AD16-29

Sheet No.
37 OF 59



43
D4.5 DETAIL

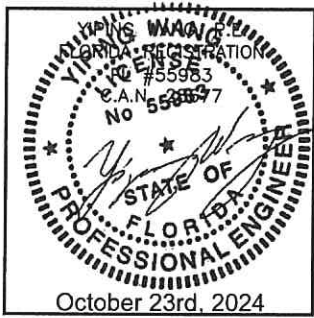


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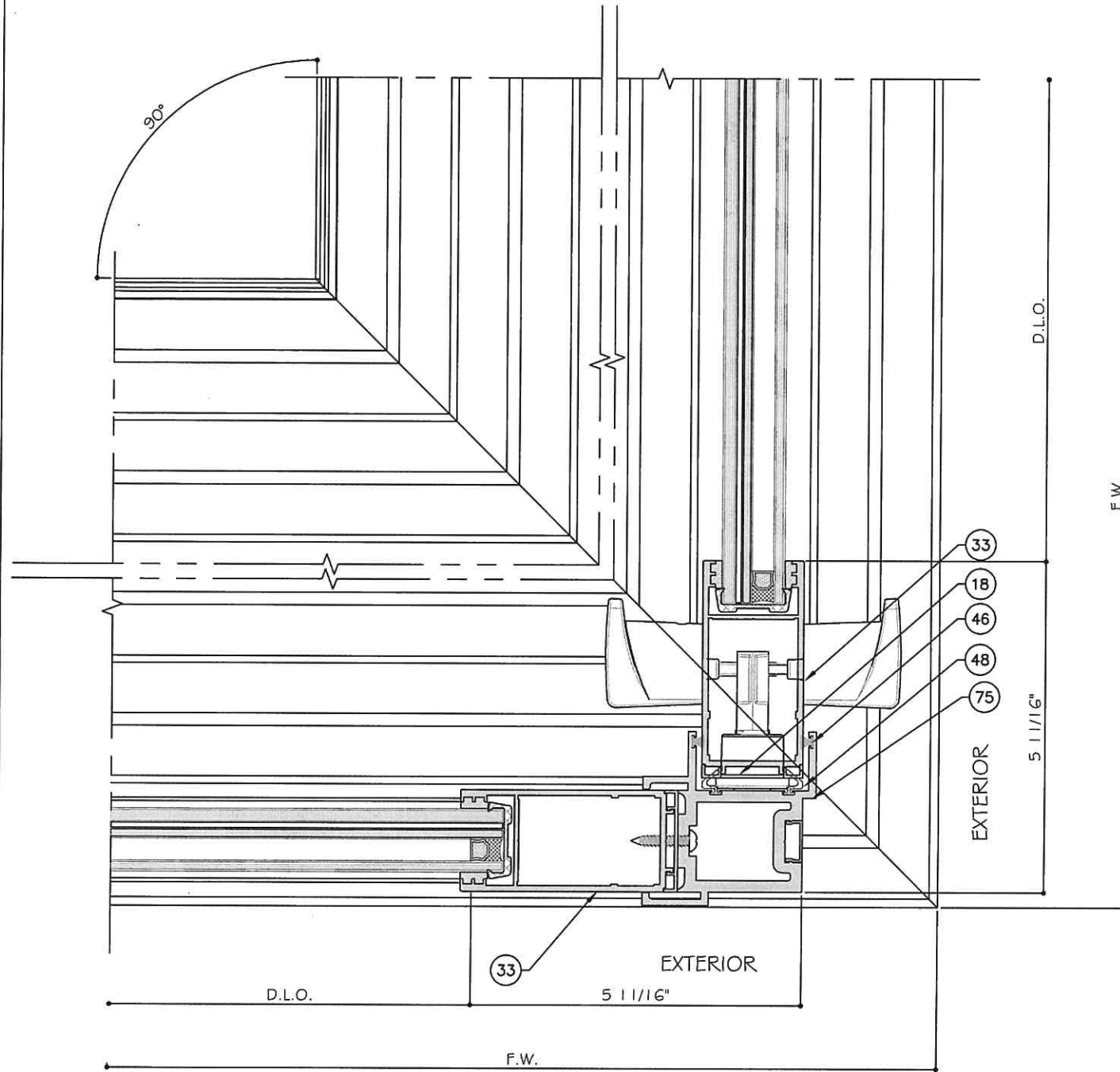
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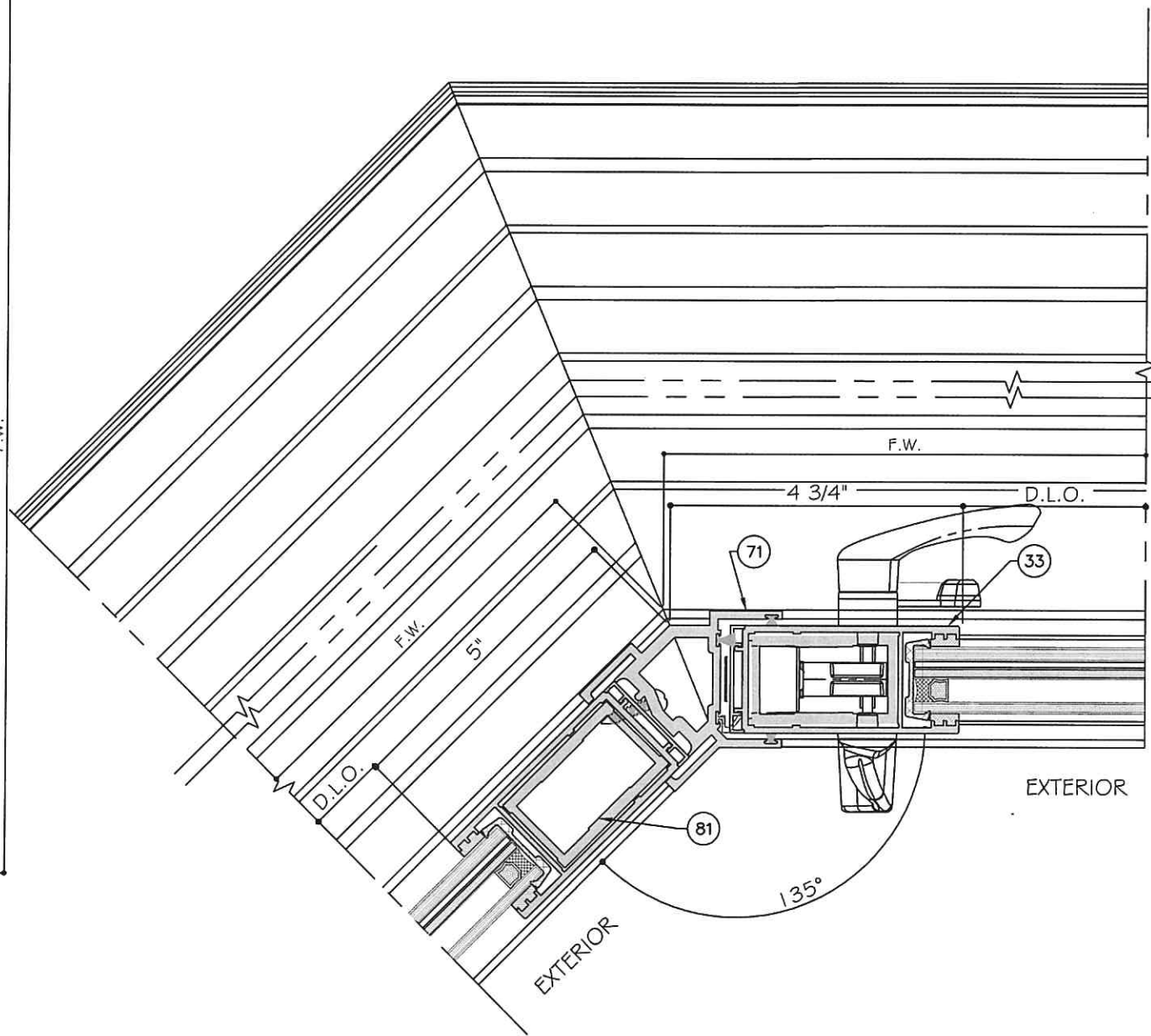
CORNER DETAILS



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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)	
Drawn Date 10.08.2024	Scale AS SHOWN
Drawing No. AD16-29	Sheet No. 38 OF 59
Rev. No. 10.08.2024	Description REVISION
Drawn By J. Wang	Date 10.08.2024



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DETAIL

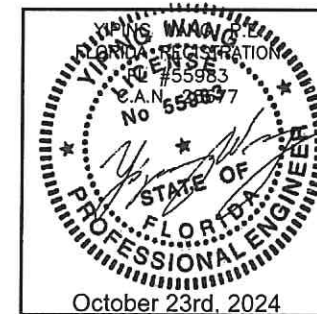


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D4.6
DETAIL

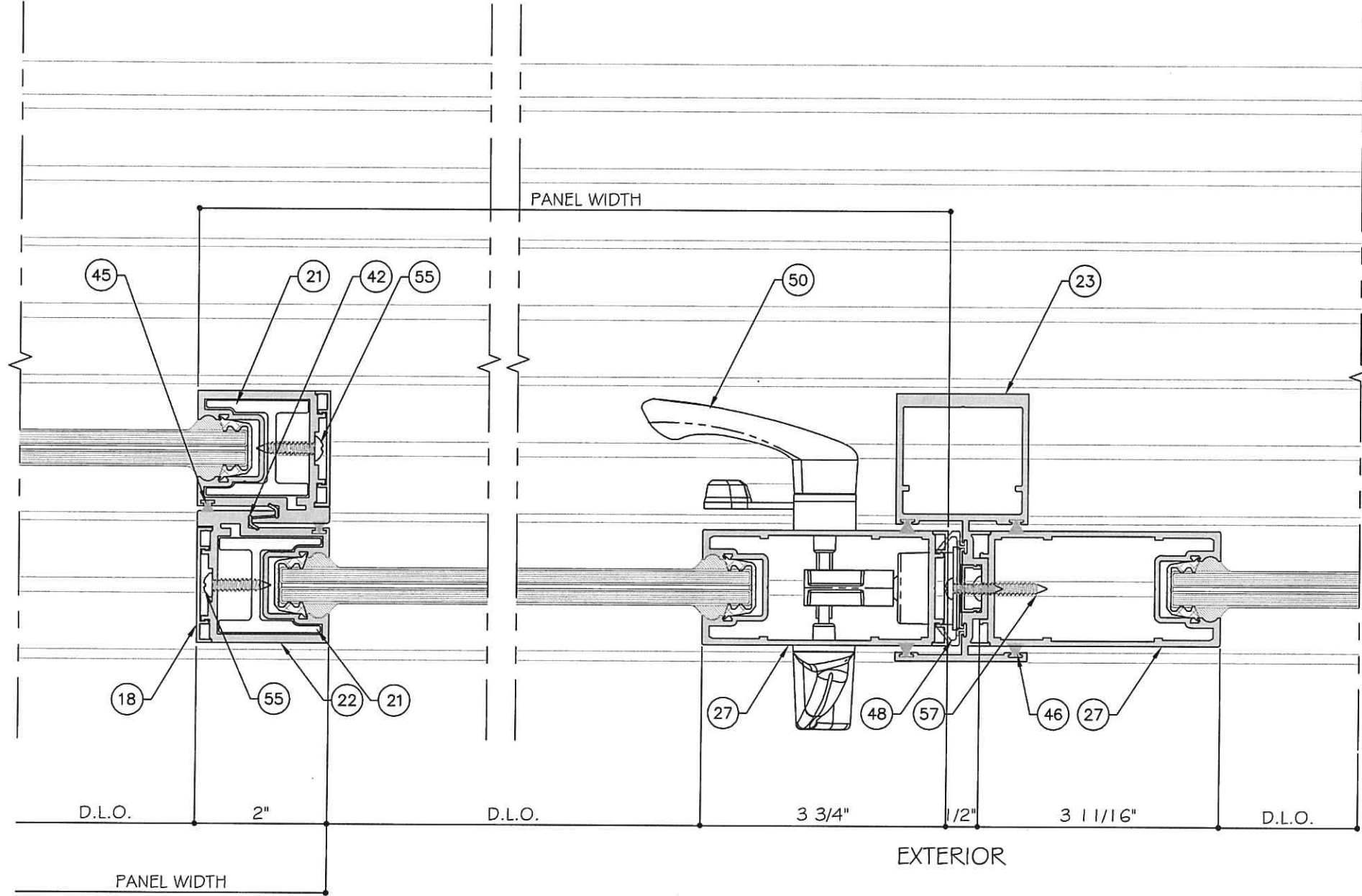
CORNER DETAILS

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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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)	
Drawn Date 10.08.2024	Scale 1/8" = 1'-0"
Drawing No. AD16-29	Sheet No. 39 OF 59
Revision 10.08.2024 Drawn By YW	Description Sliding Glass Door

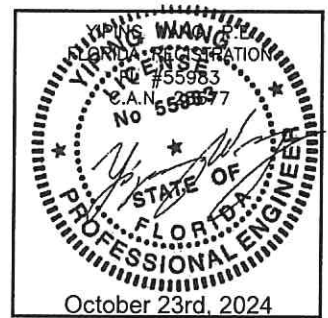


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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

FOUR (4) TRACK DOOR DETAILS



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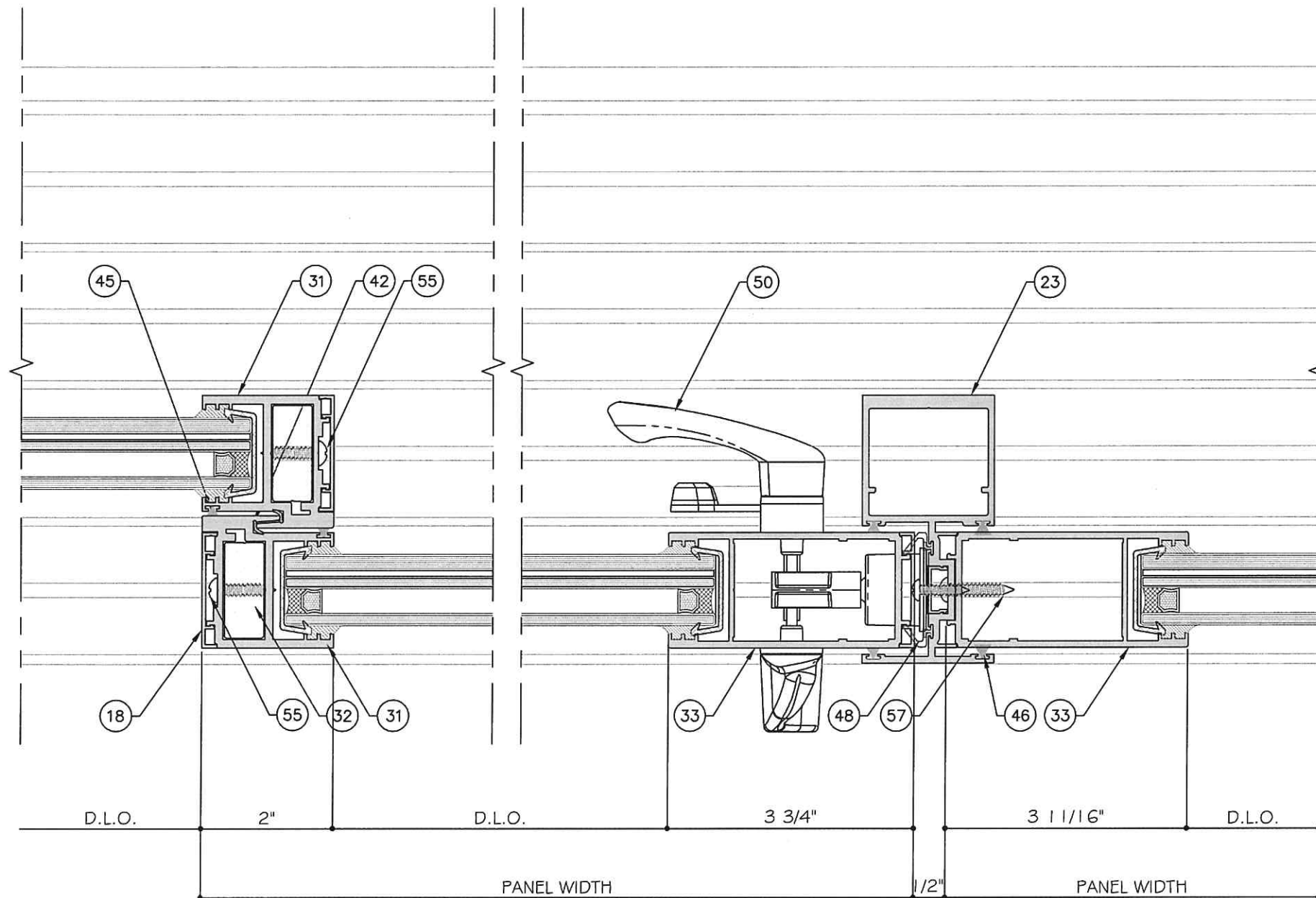
Rev. No.	Date	Drawn By	Description
1	10.08.2024	YIANG WANG	10.08.2024

Drawn Date
10.08.2024

DRAWING NO.
AD16-29

D5

Sheet No.
40 OF 59



16
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DETAIL

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D7
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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Drawn Date: 10.08.2024

Scale:

DRAWING NO.: AD16-29

Sheet No.: 42 OF 59

REVISED

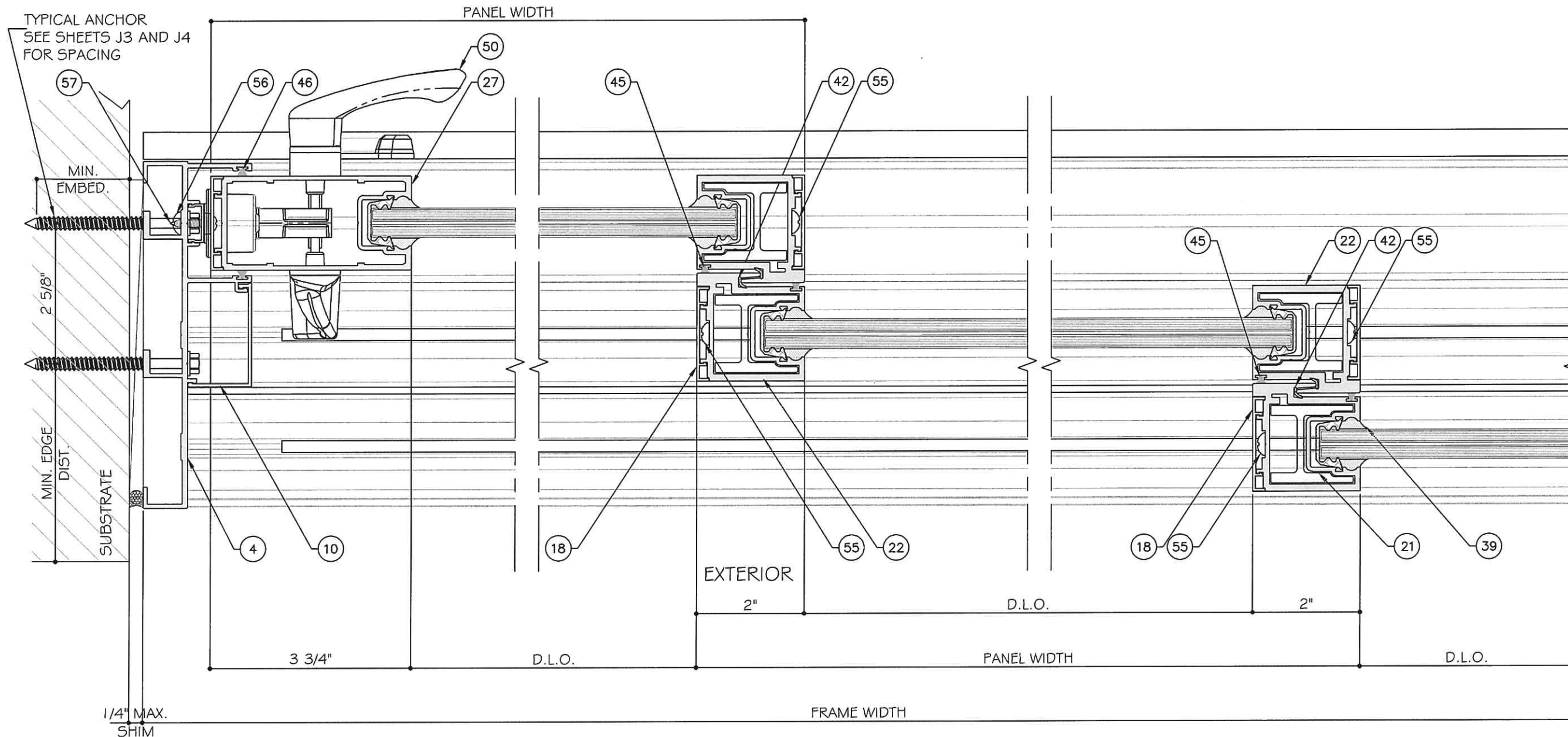
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Date:

Rev. No.:

Description:

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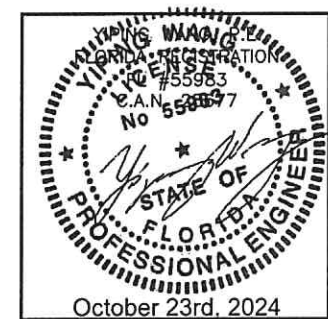
19
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STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

THREE (3) TRACK DOOR DETAILS



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Rev.	Date	Drawn By	Description
12	10.08.2024	JAMES	REVISION

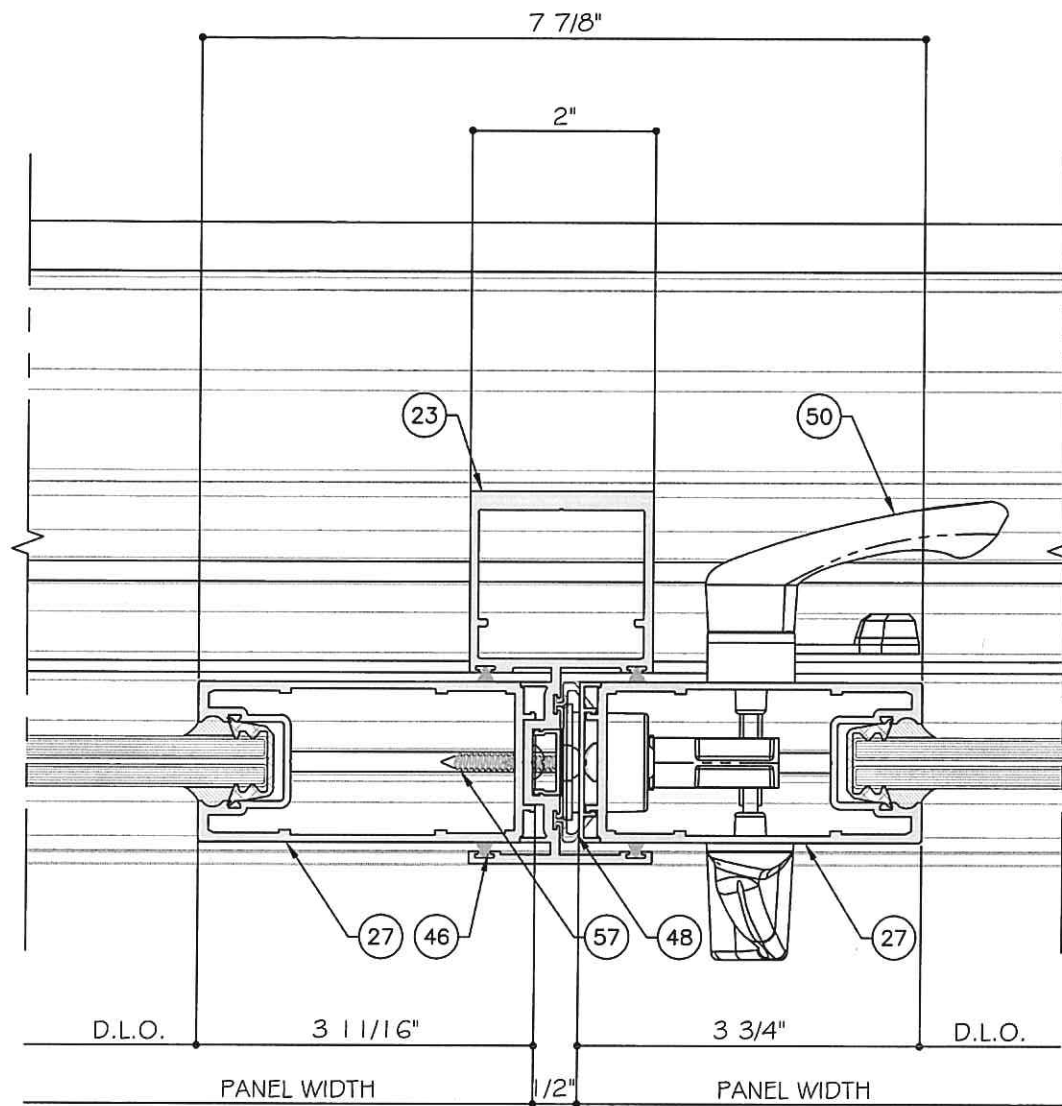
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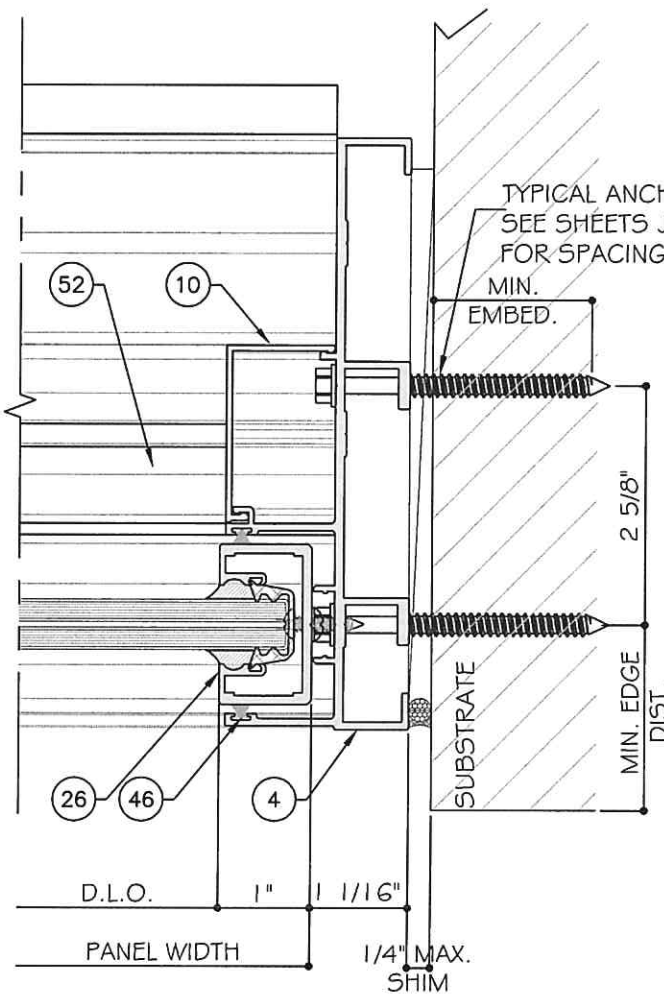
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Sheet No. 43 OF 59

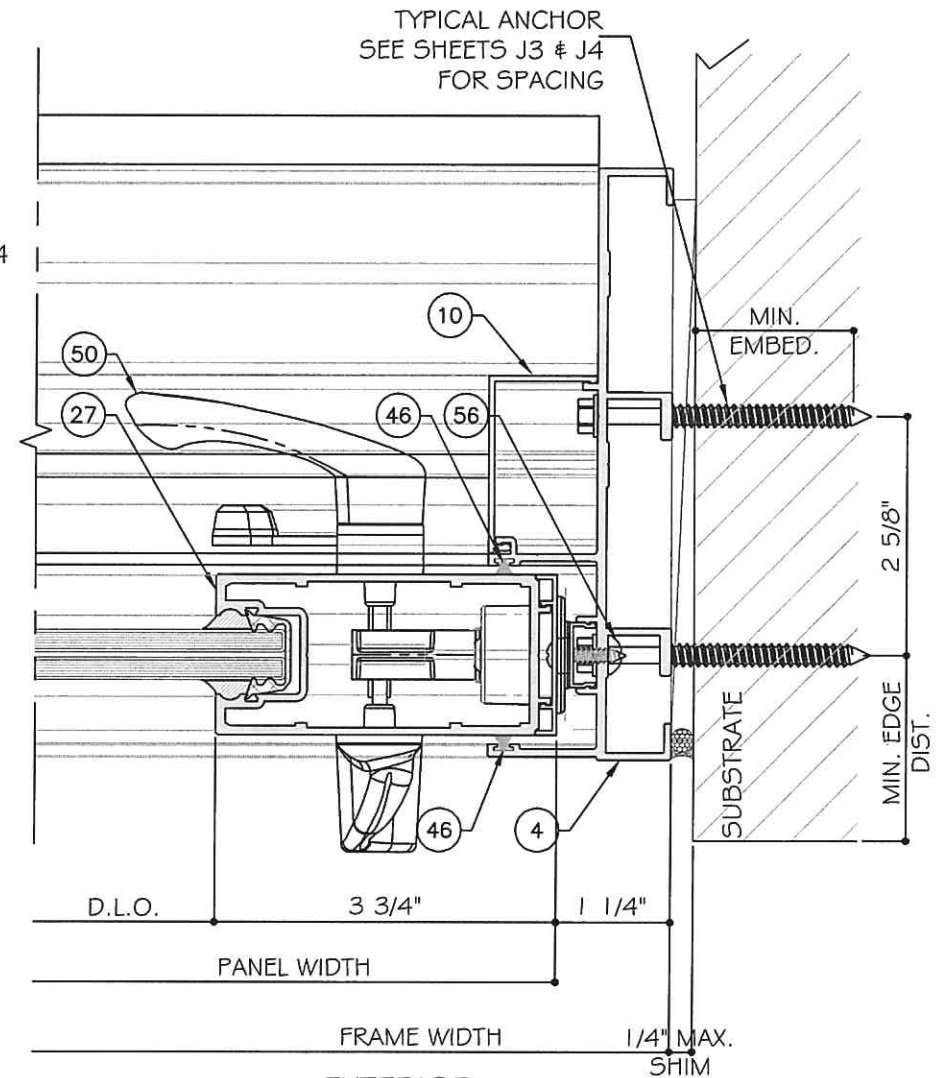


EXTERIOR

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D9



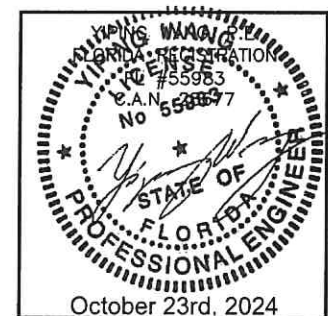
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D9



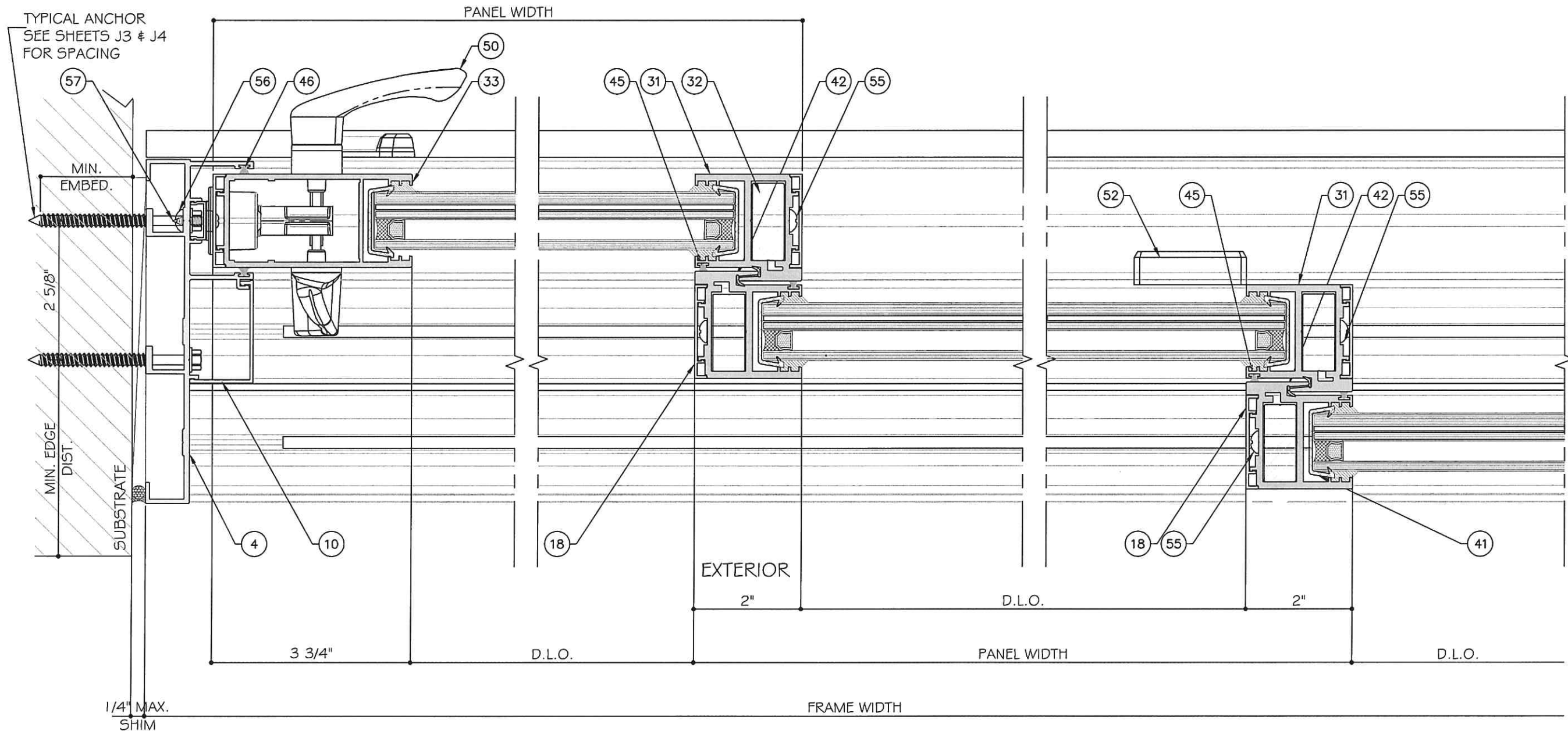
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D9

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

THREE (3) TRACK DOOR DETAILS



Rev. No.	Date	Drawn By	Description
1	10.08.2024	JAMES	
Drawn Date: 10.08.2024 Scale: DRAWING NO.: AD16-29 Sheet No.: 44 OF 59			



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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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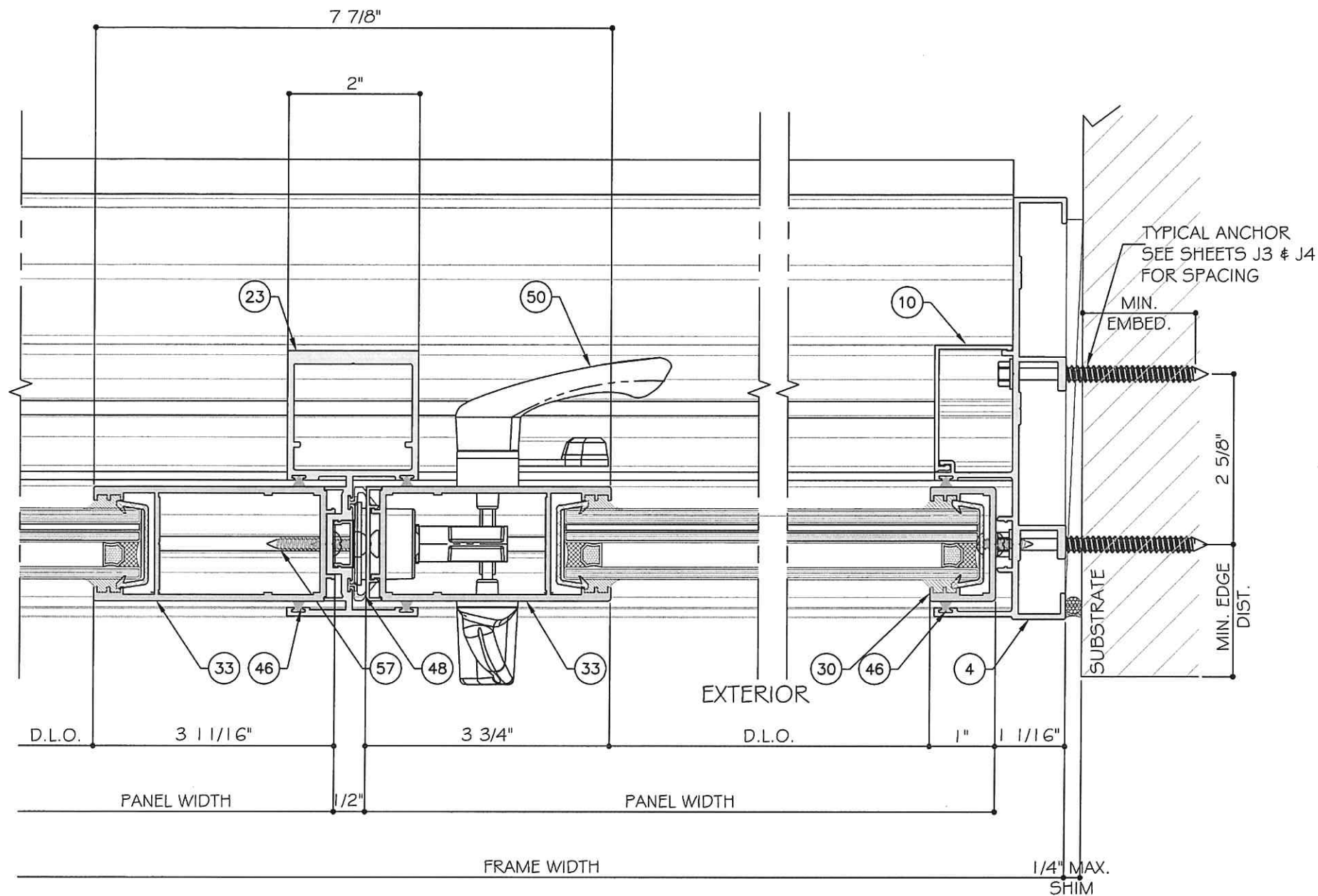
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1	10.08.2024	James	REVISION

Drawn Date: 10.08.2024

DRAWING NO.: AD16-29

Sheet No.: 45 OF 59

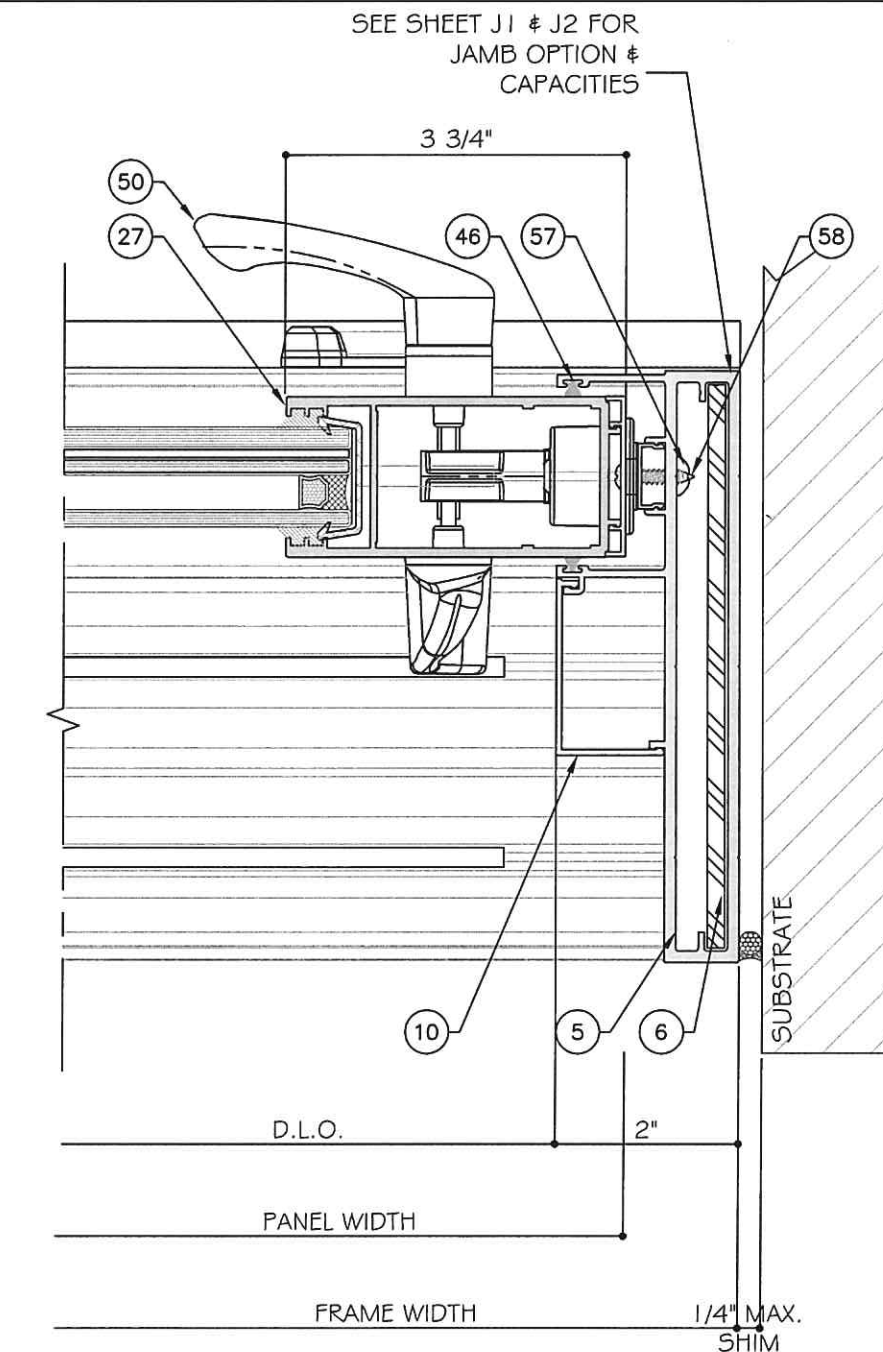


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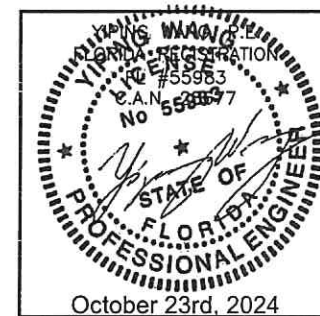
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DETAIL

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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Rev. No.	Date	Drawn By	Description
1	10.08.2024	JANES	REVISION
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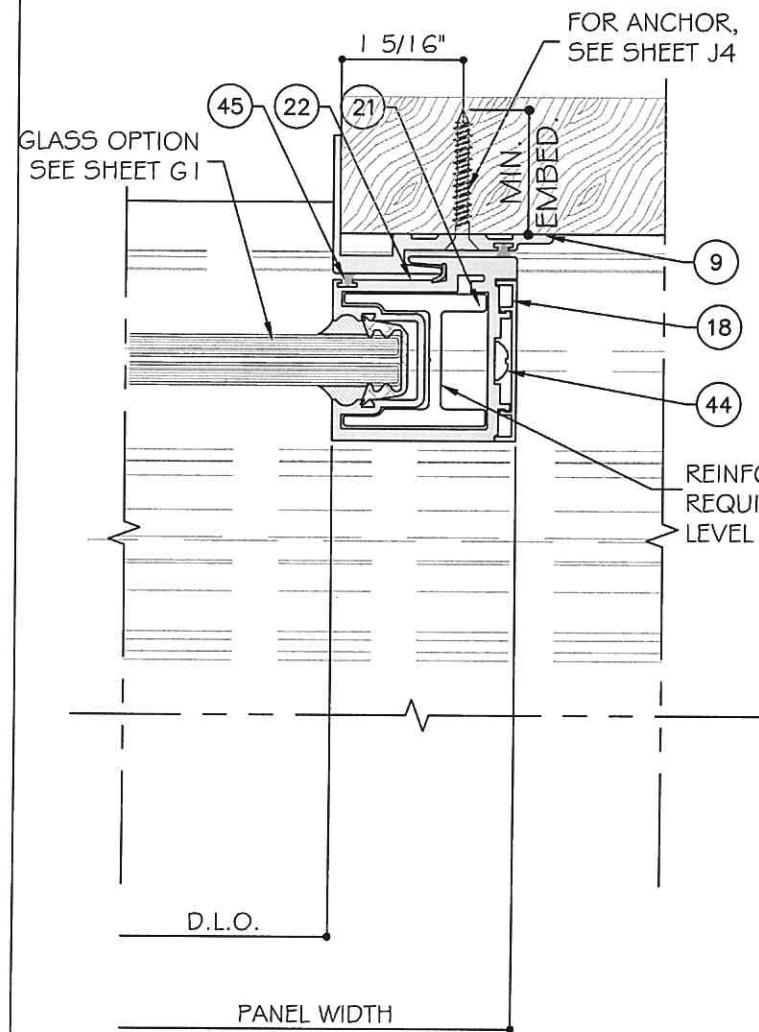
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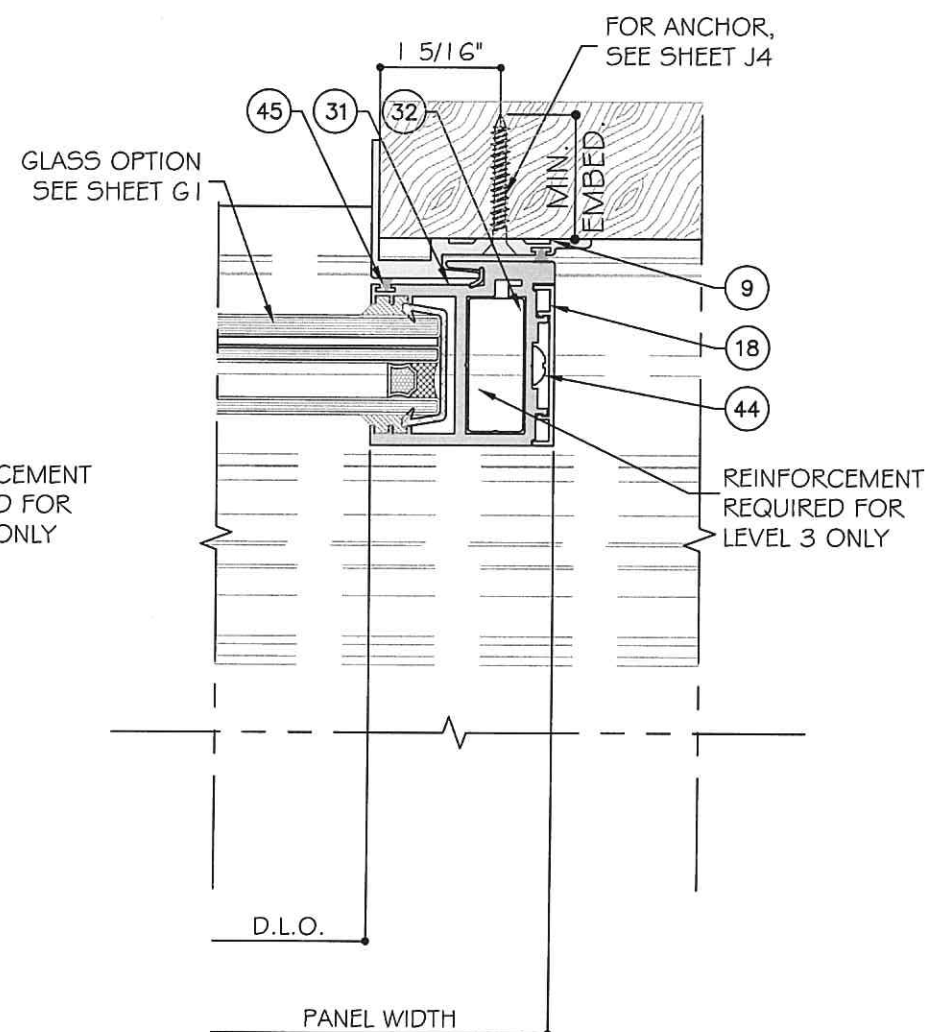
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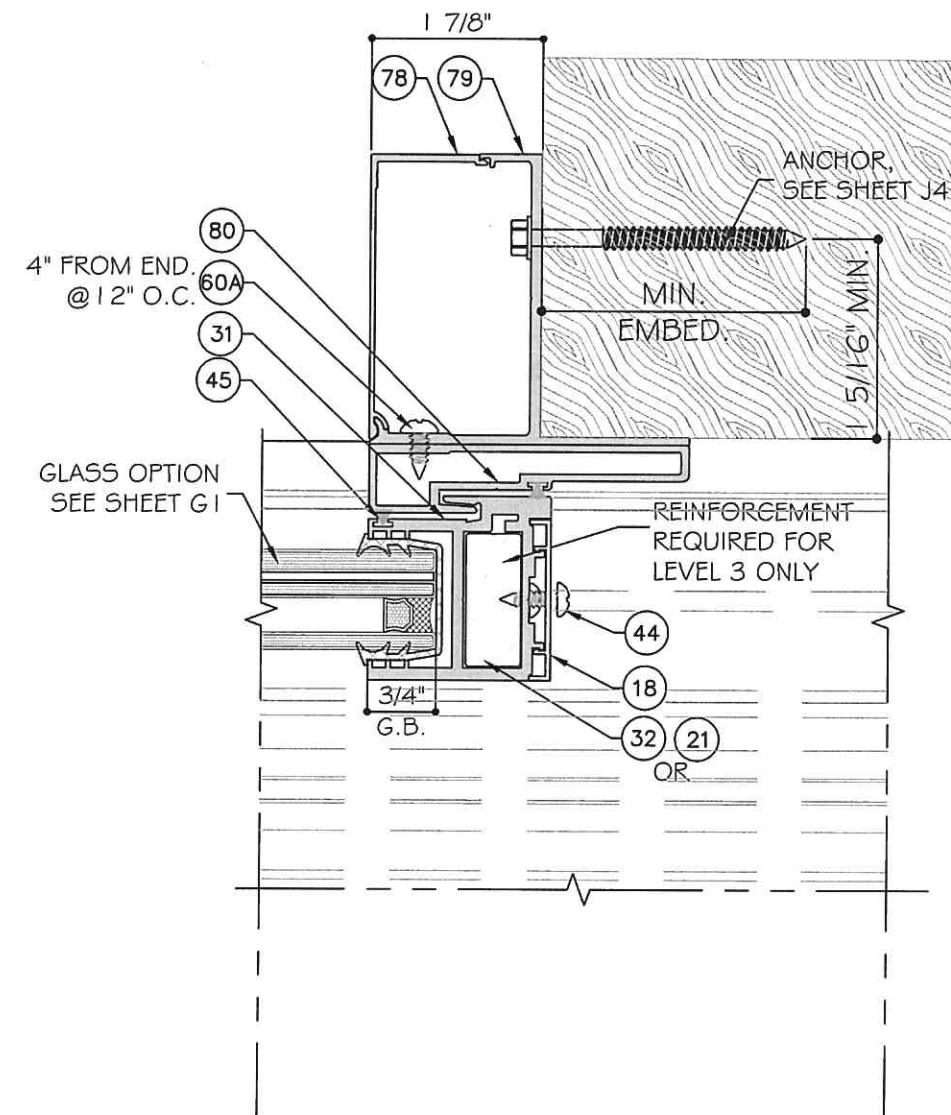
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46 OF 59



30 DETAIL
D12 DETAIL

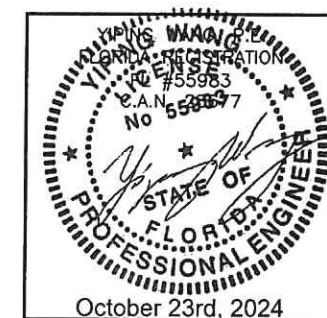


30 DETAIL
D12 OPTION



30 DETAIL
D12 OPTION

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



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1	10.08.2024	James	

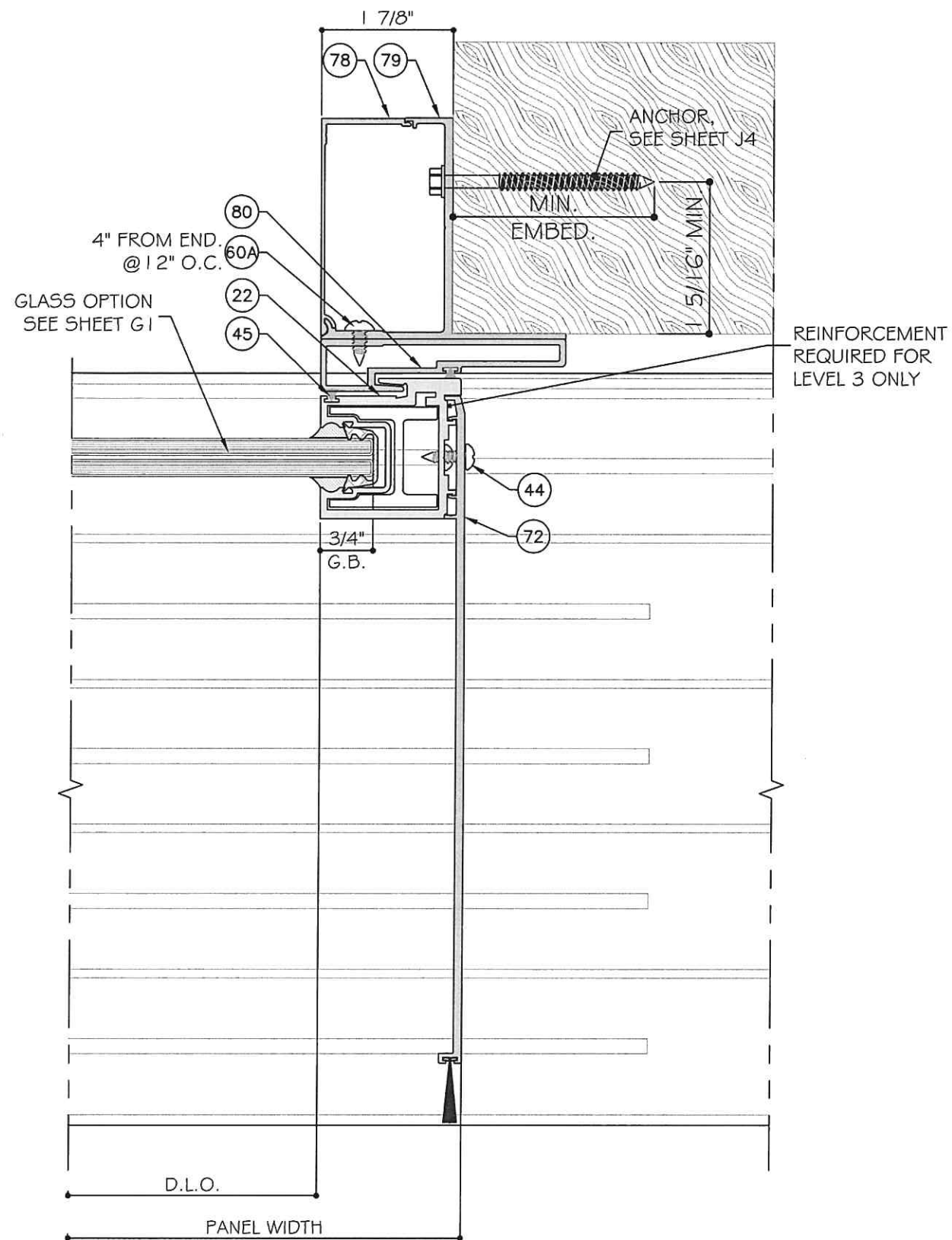
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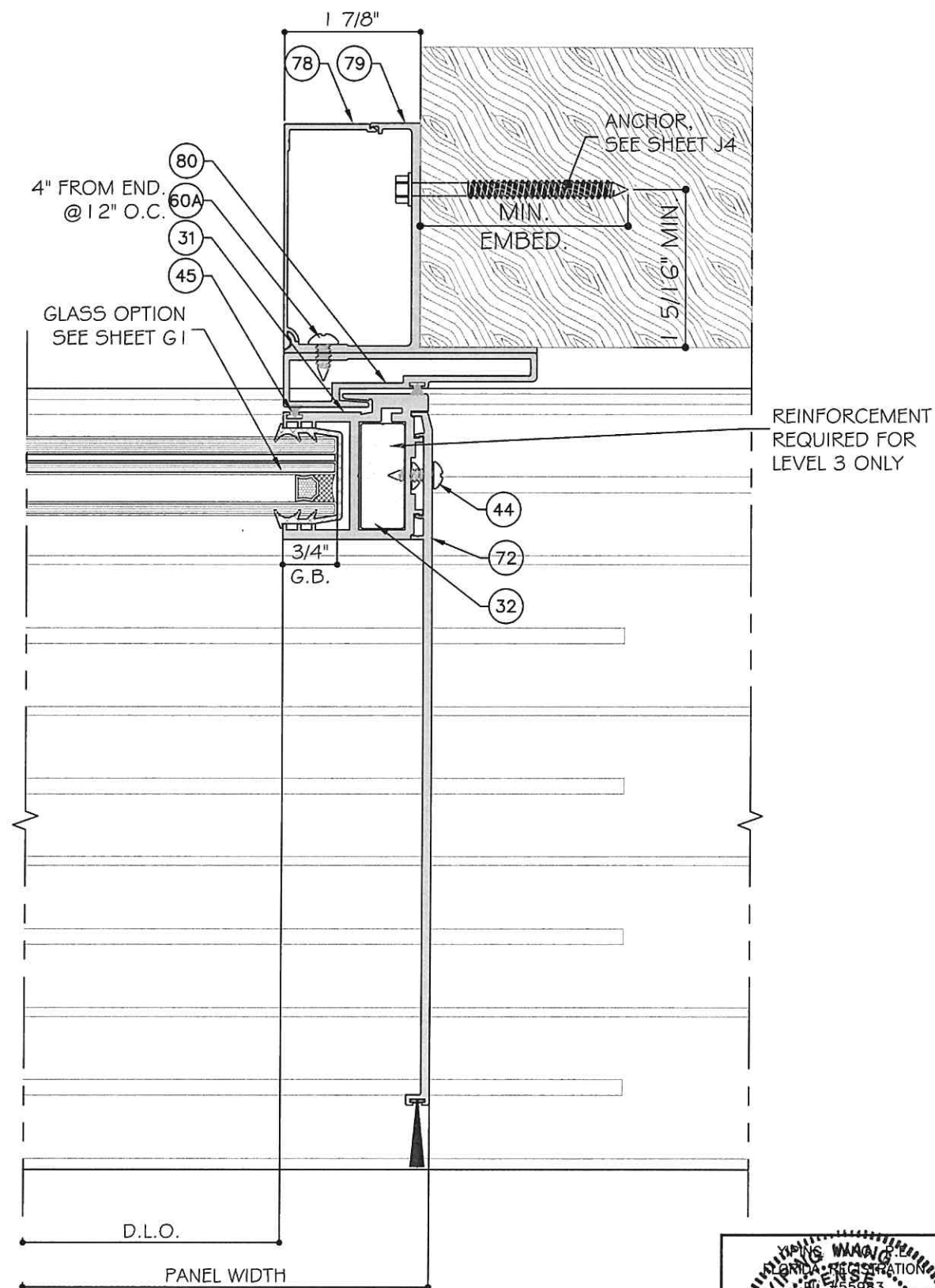
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Sheet No.: D12

47 OF 59

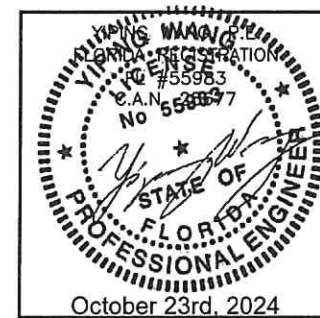


30A D12A DETAIL



30A D12A OPTION DETAIL

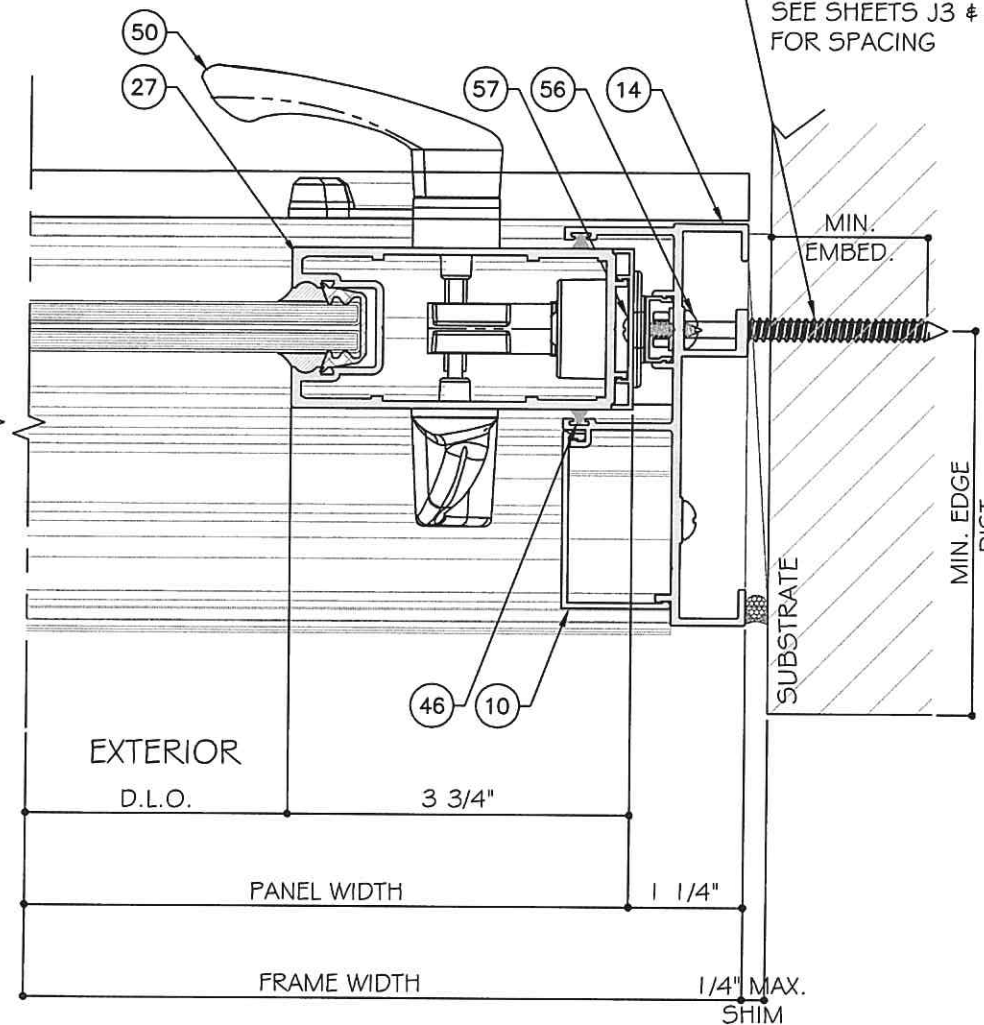
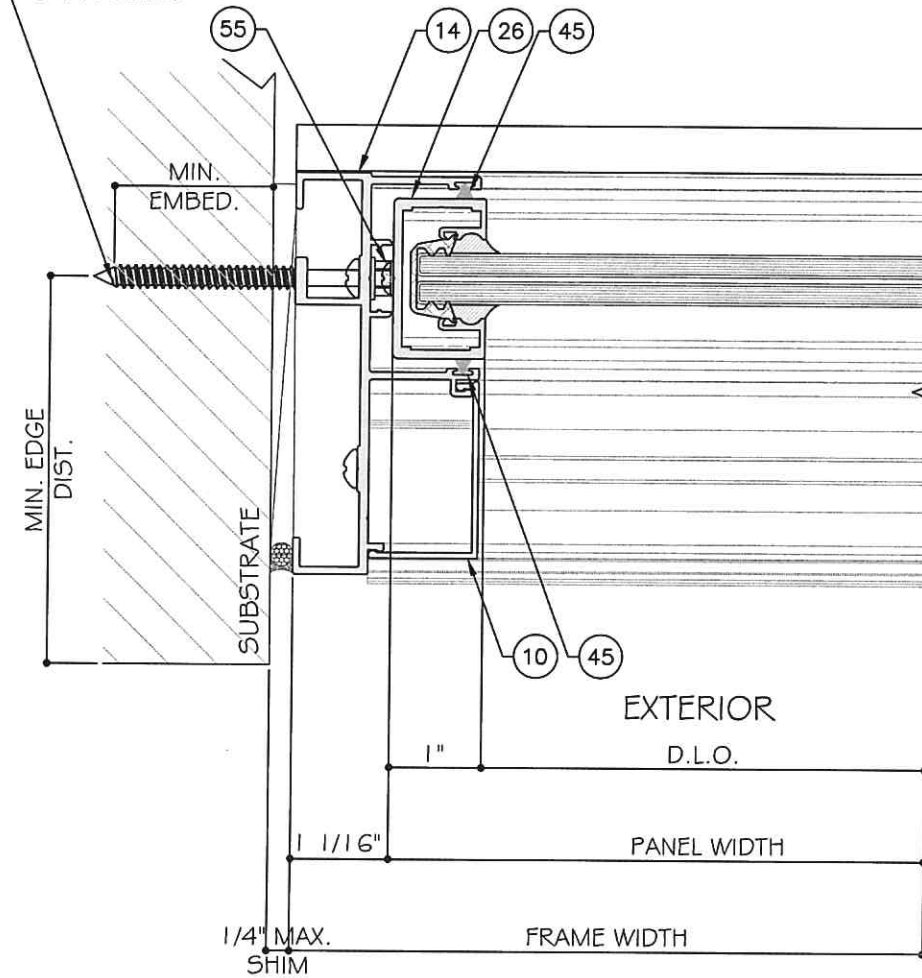
POCKET DETAIL APPLY TO 2 TRACK & 3 TRACK & 4 TRACK DOORS & 5 TRACK DOORS.



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ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)	
Drawn Date 10.08.2024	Scale AS SHOWN
Drawing No. AD16-29	Detail D12A
Sheet No. 48 OF 59	Date October 23rd, 2024

TYPICAL ANCHOR
SEE SHEETS J3 & J4
FOR SPACING

TYPICAL ANCHOR
SEE SHEETS J3 & J4
FOR SPACING

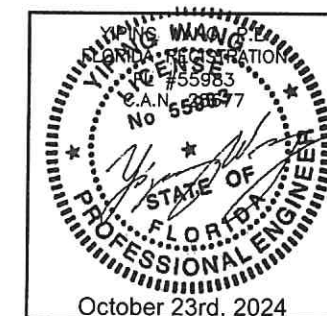


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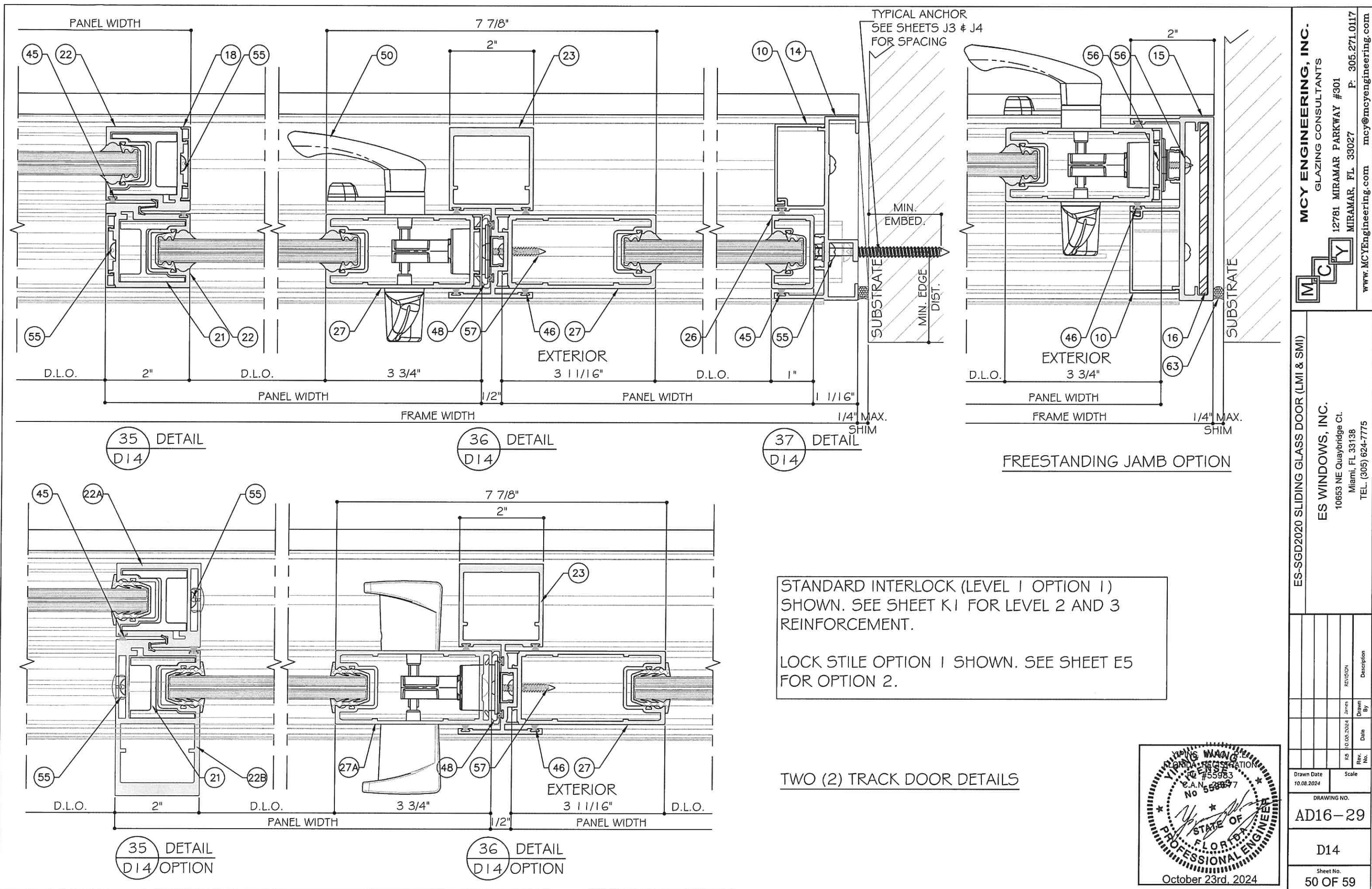
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D13
DETAIL

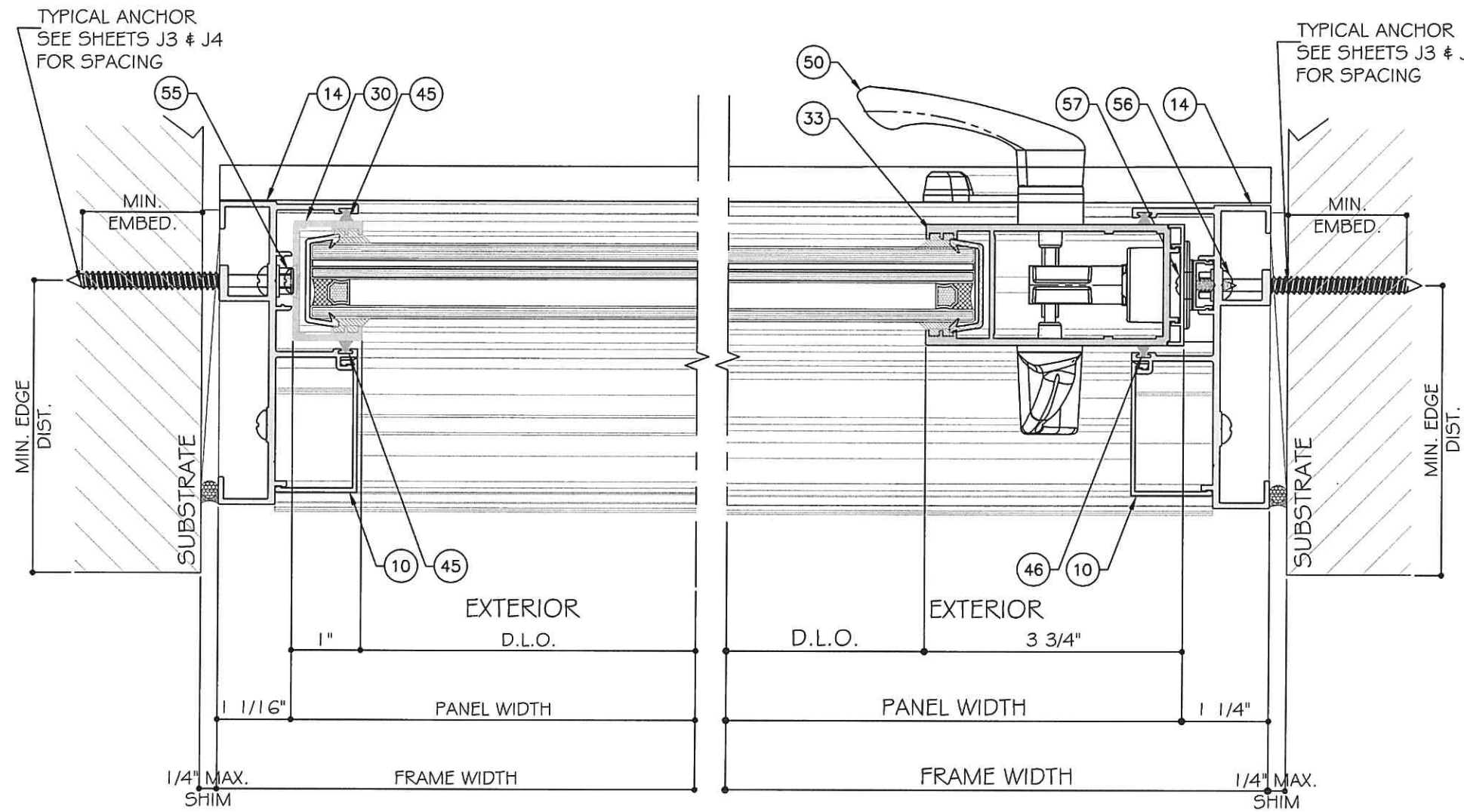
STANDARD INTERLOCK (LEVEL 1 OPTION 1) SHOWN.
SEE SHEET K1 FOR LEVEL 2 AND 3 REINFORCEMENT.
LOCK STILE OPTION 1 SHOWN. SEE SHEET E5 FOR
OPTION 2.

TWO (2) TRACK DOOR DETAILS



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Drawn Date 10.08.2024	Scale AS SHOWN
DRAWING NO. AD16-29	
D13	
Sheet No. 49 OF 59	



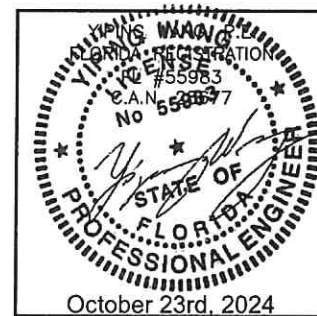


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D15
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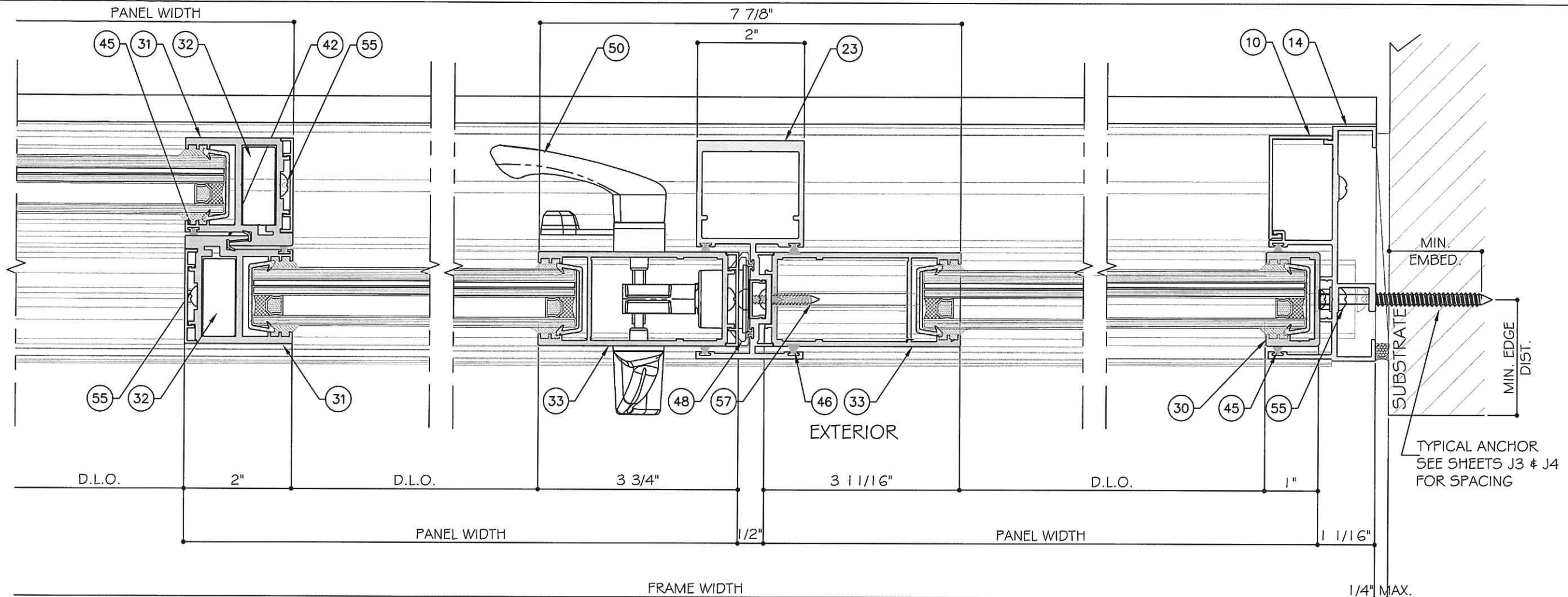
39
D15
DETAIL

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.

TWO (2) TRACK DOOR DETAILS



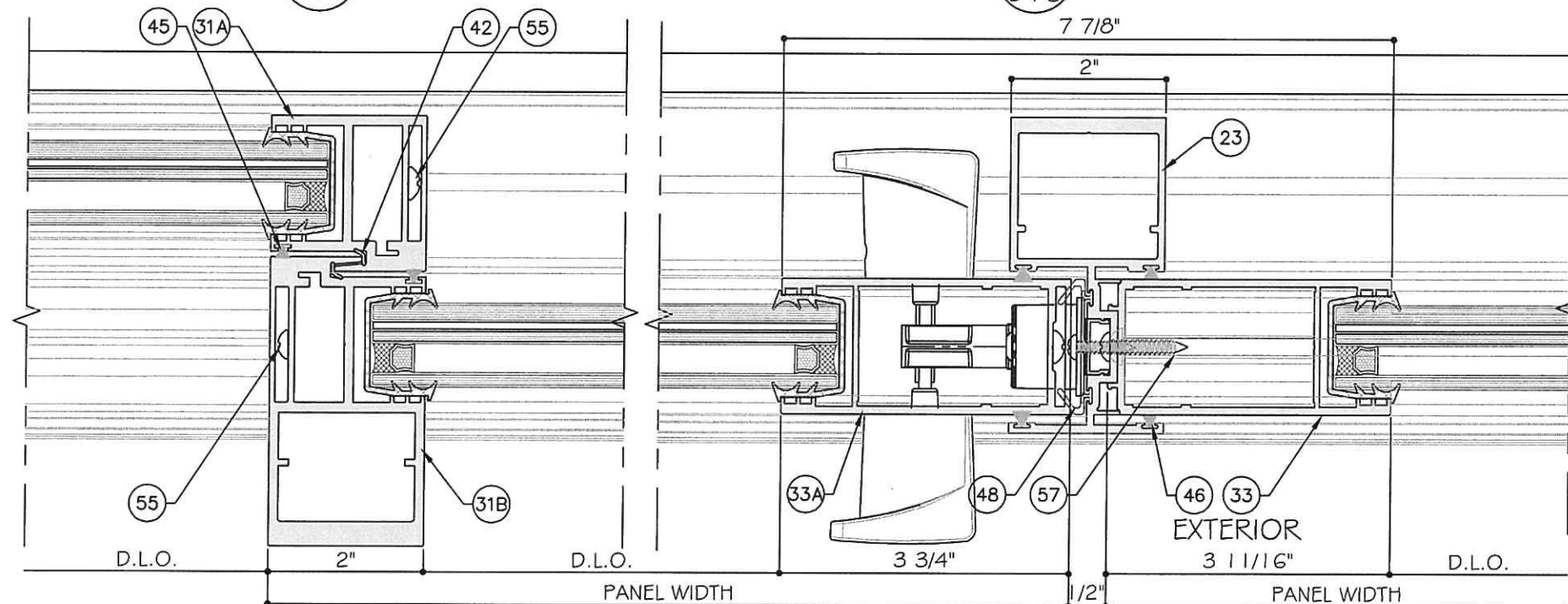
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ES	10.08.2024	Jones	REVISION
Drawn Date 10.08.2024		Scale	
DRAWING NO. AD16-29			
Sheet No. D15			
51 OF 59			



41 DETAIL
D16

42 DETAIL
D16

43 DETAIL
D16



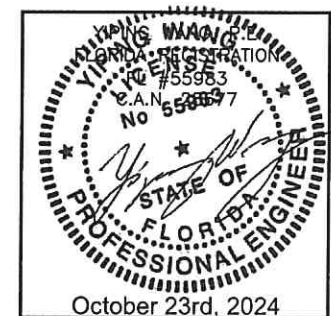
41 DETAIL
D16 OPTION

42 DETAIL
D16 OPTION

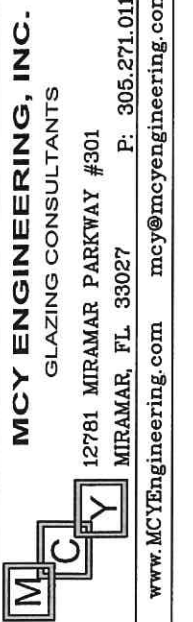
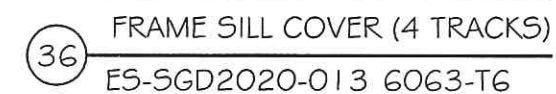
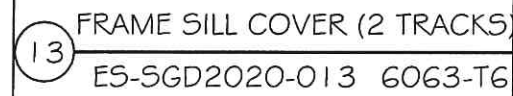
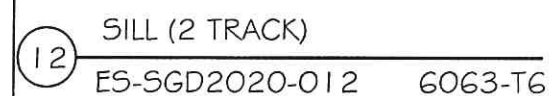
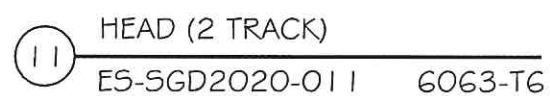
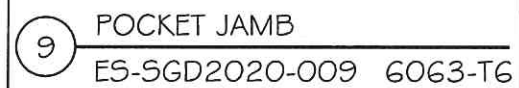
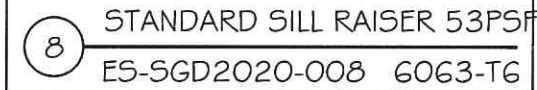
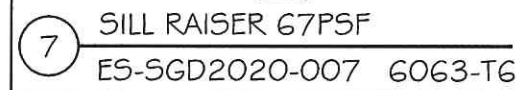
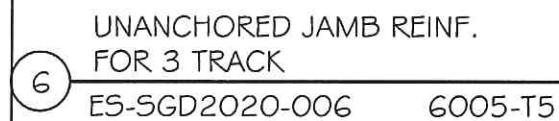
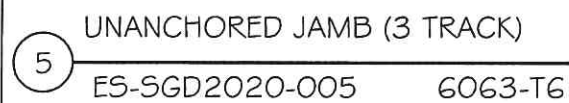
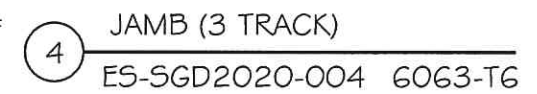
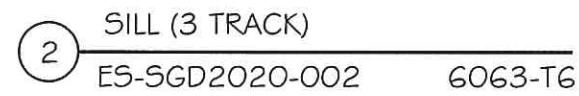
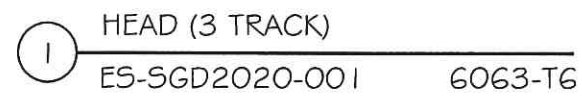
STANDARD INTERLOCK
(LEVEL 1 OPTION 1)
SHOWN. SEE SHEET K1 FOR
LEVEL 2 AND 3
REINFORCEMENT.

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

TWO (2) TRACK DOOR DETAILS



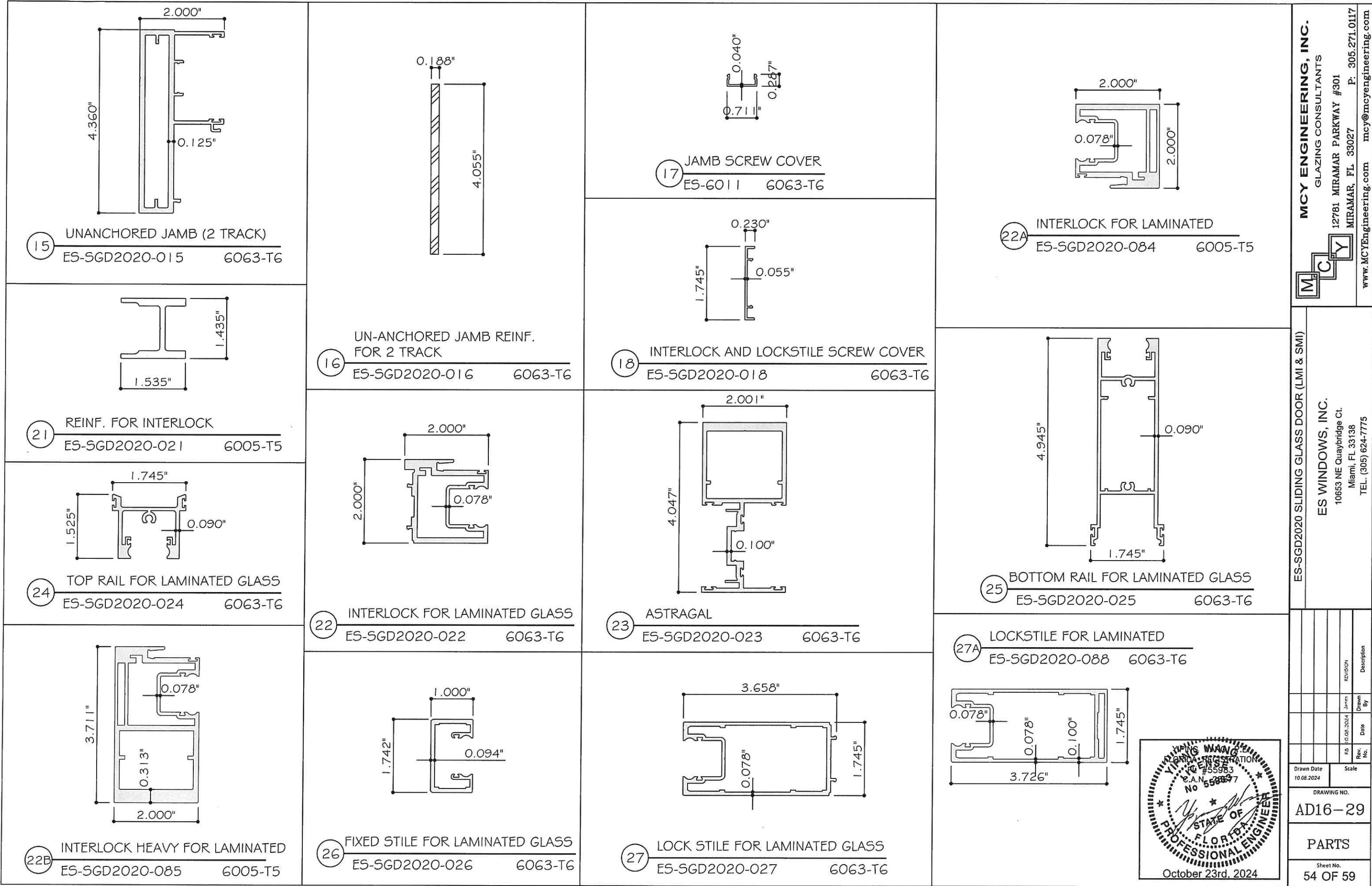
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Drawn Date: 10.08.2024			
Scale:			
DRAWING NO. AD16-29			
D16			
Sheet No. 52 OF 59			

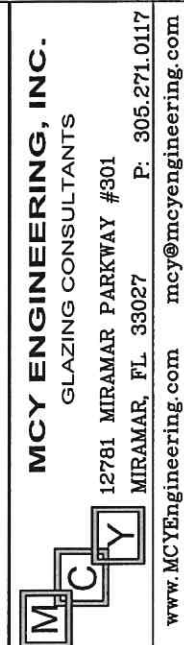
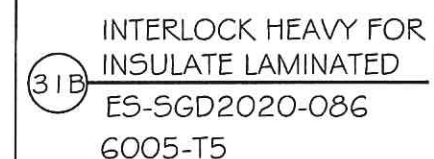
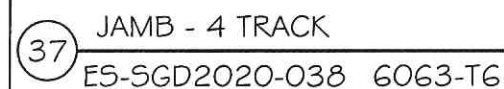
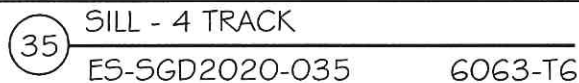
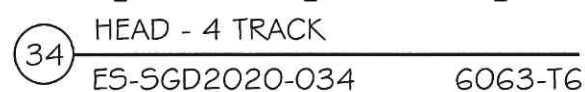
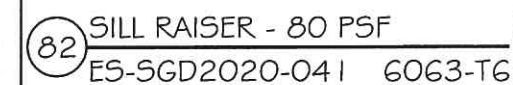
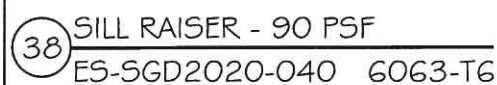
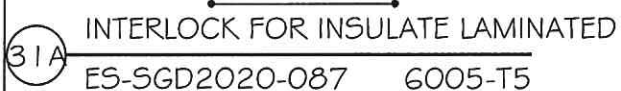
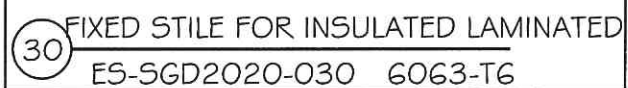
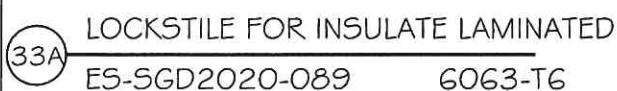
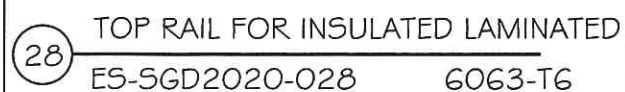


ES-SGD2020 SLIDING GLASS DOOR (LMI & SMI)

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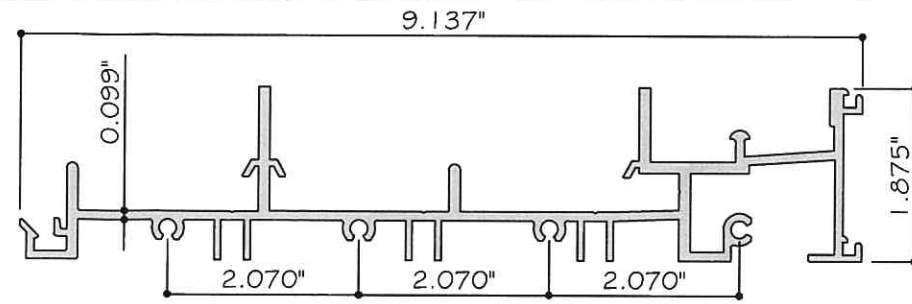
ES WINDOWS, INC.

10653 NE Quaybridge Ct.

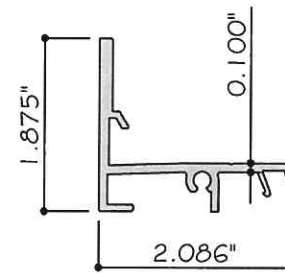
Miami, FL 33138

TEL. (305) 624-7775

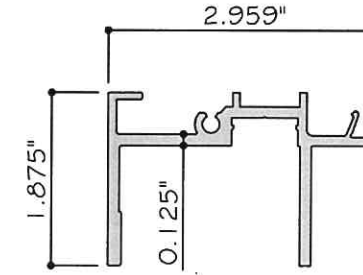
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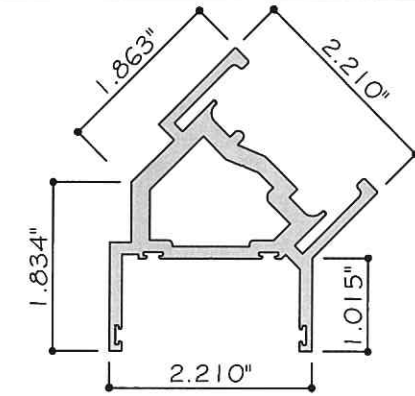
65 FRAME SILL - 5 TRACKS
ES-SGD2020-055 6063-T6



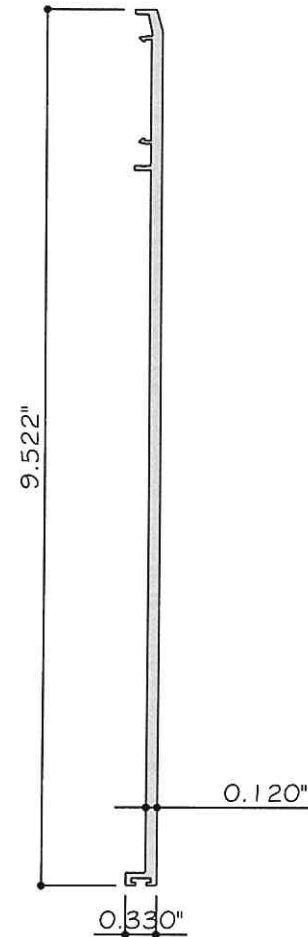
66 FRAME FRONT SILL
ES-SGD2020-054 6063-T6



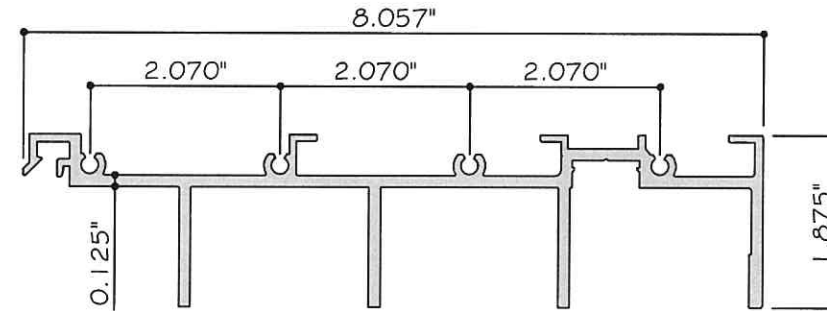
67 FRAME FRONT HEAD
ES-SGD2020-062 6063-T6



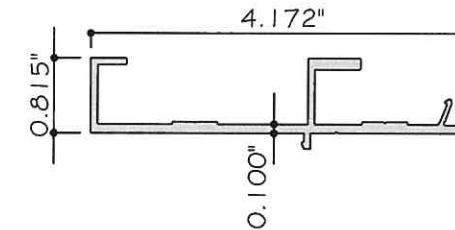
71 FRAME FRONT SILL
ES-SGD2020-056 6063-T6



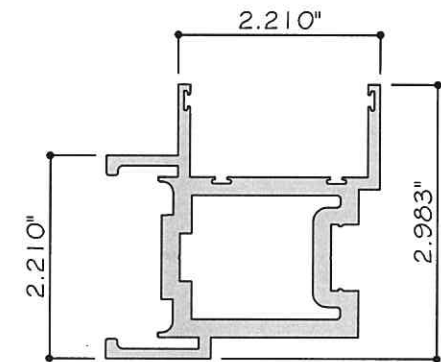
72 POCKET DOOR CLOSER - 5 TRACKS
ES-SGD2020-061 6063-T6



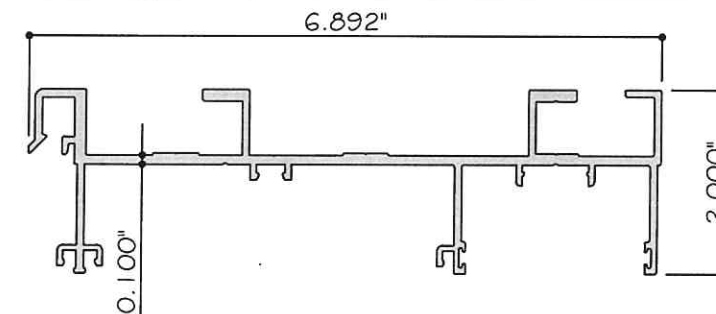
69 FRAME HEAD - 5 TRACKS
ES-SGD2020-063 6063-T6



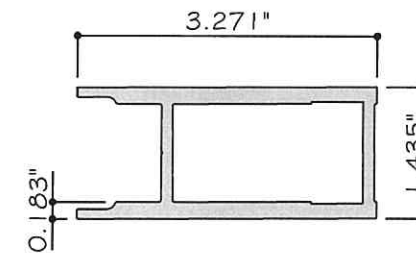
70 FRAME FRONT JAMB
ES-SGD2020-064 6063-T6



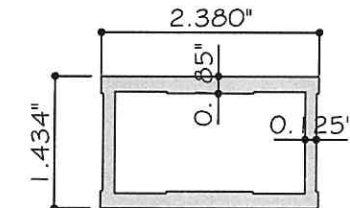
75 FRAME FRONT SILL
ES-SGD2020-068 6063-T6



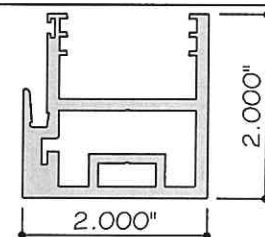
73 JAMB - 5 TRACKS
ES-SGD2020-065 6063-T6



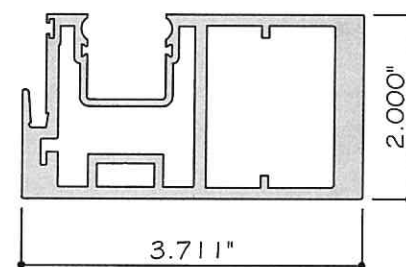
74 REINF. FOR LOCK STILE LAM. GLASS
ES-SGD2020-071 6063-T6



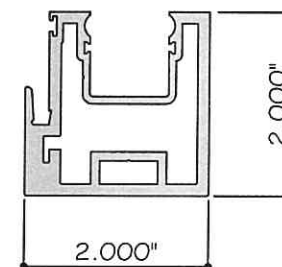
81 REINF. FOR LOCK STILE (INSL-LAM.)
ES-SGD2020-07X 6063-T6



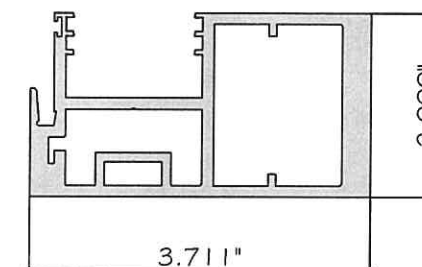
87A INTERLOCK FOR INSULATED LAMINATED GLASS
ES-SGD2020-087A 6005-T5



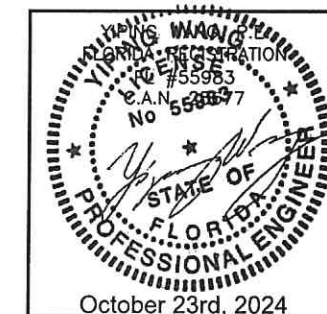
84A INTERLOCK HEAVY FOR LAMINATED GLASS
ES-SGD2020-084A 6005-T5



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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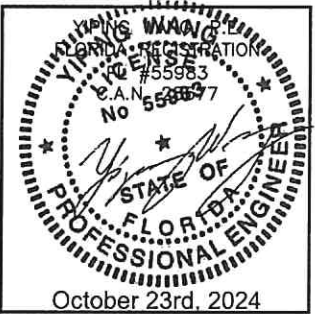
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Miami, FL 33138
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Rev.	Date	Drawn By	Description
1	10/08/2024	Jerry	Initial

Drawn Date: 10/08/2024 Scale:
DRAWING NO. AD16-29
PARTS
Sheet No. 56 OF 59

BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	E5-SGD2020-001	HEAD (3 TRACK)	6063-T6	-
2	E5-SGD2020-002	SILL (3 TRACK)	6063-T6	-
3	E5-SGD2020-003	FRAME SILL COVER	6063-T6	-
4	E5-SGD2020-004	JAMB (3 TRACK)	6063-T6	-
5	E5-SGD2020-005	FREESTANDING JAMB (3 TRACK)	6063-T6	-
6	E5-SGD2020-006	UN-ANCHORED JAMB REINFORCEMENT FOR 3 TRACK	6005-T5	-
7	E5-SGD2020-007	HI SILL RAISER 3-1/16" HEIGHT	6063-T6	-
8	E5-SGD2020-008	STANDARD SILL RAISER 2-9/16" HEIGHT	6063-T6	-
9	E5-SGD2020-009	POCKET JAMB	6063-T6	-
10	E5-SGD2020-010	JAMB SCREW COVER	6063-T6	-
11	E5-SGD2020-011	HEAD 2 TRACK	6063-T6	-
12	E5-SGD2020-012	SILL 2 TRACK	6063-T6	-
13	E5-SGD2020-013	FRAME SILL COVER	6063-T6	-
14	E5-SGD2020-014	JAMB (2 TRACK)	6063-T6	-
15	E5-SGD2020-015	FREESTANDING JAMB (2 TRACK)	6063-T6	-
16	E5-SGD2020-016	FREESTANDING JAMB REINFORCEMENT FOR 2 TRACK	6063-T6	-
17	E5-6011	JAMB SCREW COVER	6063-T6	-
18	E5-SGD2020-018	INTERLOCK AND LOCK STILE SCREW COVER	6063-T6	-
19	NOT USED	-	-	-
20	NOT USED	-	-	-
21	E5-SGD2020-021	REINFORCEMENT FOR INTERLOCK	6005-T5	-
21A	E5-SGD2020-021A	REINFORCEMENT FOR INTERLOCK LAMINATED GLASS	6005-T5	-
22	E5-SGD2020-022	INTERLOCK FOR LAMINATED GLASS	6005-T5	-
22A	E5-SGD2020-084	INTERLOCK FOR LAMINATED GLASS	6005-T5	-
22B	E5-SGD2020-085	INTERLOCK HEAVY FOR LAMINATED GLASS	6005-T5	-
23	E5-SGD2020-023	ASTRAGAL	6005-T5	-
24	E5-SGD2020-024	TOP RAIL FOR LAMINATED GLASS	6063-T6	-
25	E5-SGD2020-025	BOTTOM RAIL FOR LAMINATED GLASS	6063-T6	-
26	E5-SGD2020-026	FIXED STILE FOR LAMINATED GLASS	6063-T6	-
27	E5-SGD2020-027	LOCK STILE FOR LAMINATED GLASS	6063-T6	-
27A	E5-SGD2020-088	LOCK STILE FOR LAMINATED GLASS	6063-T6	-
28	E5-SGD2020-028	TOP RAIL FOR INSULATED LAMINATED GLASS	6063-T6	-
29	E5-SGD2020-029	BOTTOM RAIL FOR INSULATED GLASS	6063-T6	-
30	E5-SGD2020-030	FIXED STILE FOR INSULATED LAMINATED GLASS	6063-T6	-
31	E5-SGD2020-031	INTERLOCK FOR INSULATED LAMINATED GLASS	6063-T6	-
31A	E5-SGD2020-087	INTERLOCK FOR INSULATED LAMINATED GLASS	6005-T5	-
31B	E5-SGD2020-086	INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS	6005-T5	-
32	E5-SGD2020-032	REINFORCEMENT FOR INTERLOCK INSULATED LAM. GLASS	6005-T5	-
32A	E5-SGD2020-032A	REINFORCEMENT FOR INTERLOCK INSULATED LAM. GLASS	6005-T5	-
33	E5-SGD2020-033	LOCK STILE FOR INSULATED LAMINATED GLASS	6063-T6	-
33A	E5-SGD2020-089	LOCK STILE FOR INSULATED LAMINATED GLASS	6063-T6	-
34	E5-SGD2020-034	HEAD (4 TRACK)	6063-T6	-
35	E5-SGD2020-035	SILL (4 TRACK)	6063-T6	-
36	E5-SGD2020-036	FRAME SILL COVER (4 TRACK)	6063-T6	-
37	E5-SGD2020-037	JAMB (4 TRACK)	6063-T6	-
38	E5-SGD2020-040	SILL RAISER 4-3/16" HEIGHT	6063-T6	-
39	E52020-G01	GLAZING GASKET FOR LAMINATED GLASS	SILICONE, DURO 70	-
40	E52020-G02	GLAZING GASKET FOR LAMINATED GLASS	SILICONE, DURO 70	-
41	E52020-G03	GLAZING GASKET FOR INSULATED LAMINATED GLASS	SILICONE, DURO 70	-
42	E52020-G04	INTERLOCK BUMPER	BLACK PVC, 90 SHORE D	-
43	E52020-G05	GLAZING GASKET FOR INSULATED LAMINATED GLASS	SILICONE, DURO 70	-
44	W23221NG	SILL, HEAD PILE	POLYPROPYLENE	-
45	W23171NK	INTERLOCK PILE	POLYPROPYLENE	-
46	W23211NG	INTERLOCK ASTRAGAL	POLYPROPYLENE	-
47	WA2L	WEEPHOLE COVER	POLYPROPYLENE	-
48	QEZ 447-1	QLON	FOAM ALL STRUCTURE	-
49	P501-0035-00B	RECESSED FACEPLATE SBML LOCK TWO POINT	-	

BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
50	P501-0035-00B	INVOLUTE HANDLE SET	-	-
	P501-0014-000			-
	P501-0014-00B			-
	P501-0014-117			-
51	P501-1005-00B	ADJUSTABLE STRIKE	POLYPROPYLENE	-
	P501-0060-000 2P			-
52	-	BUMPER BASE AND SNAP FIT	STEEL AND RUBBER	-
53	1986-PRN-300055	ROLLER	STAINLESS STEEL	-
54	GTT-15006-HKA-01-TE	ROLLER	-	ZAMAK
55	-	#10 X 7/8" P.H. SCREW FOR PANEL ASSEMBLY	ST/ST	-
56	-	#12 X 1-1/2" P.H. SCREW FOR FRAME ASSEMBLY	ST/ST	-
57	-	#8 X 3/4" P.H. SCREW FOR HANDLE STRIKE	ST/ST	-
58	-	#10 X 1" F.H. SCREW FOR MORTISE LOCK	ST/ST	-
59	-	#12 X 1" P.H. SCREW FOR BUMPER	ST/ST	-
60	-	#10 X 1" P.H. SCREW	ST/ST	-
60A	-	#10 X 1/2" P.H. SCREW	ST/ST	-
61	-	1/4-20 X 2-1/2" PAN HEAD SCREW	ST/ST	-
62	DC983	DOW CORNING 983 STRUCTURAL SILICONE	SILICONE	-
63	DC791	DOW CORNING 791	SILICONE	-
64	-	GLAZING SPACER	ALUMINUM	HELIMA
65	E5-SGD2020-055	FRAME SILL- 5 TRACKS	6063-T6	-
66	E5-SGD2020-054	FRAME FRONT SILL	6063-T6	-
67	E5-SGD2020-062	FRAME FRONT HEAD	6063-T6	-
68	E5-SGD2020-021	INTERLOCK REINF. FOR LAMINATED GLASS	6063-T5	-
69	E5-SGD2020-063	FRAME HEAD - 5 TRACKS	6063-T6	-
70	E5-SGD2020-064	FRAME FRONT JAMB	6005-T5	-
71	E5-SGD2020-056	FRAME FRONT SILL	6063-T6	-
72	E5-SGD2020-061	POCKET DOOR CLOSER - 5 TRACKS	6063-T6	-
73	E5-SGD2020-065	JAMB - 5 TRACK	6063-T6	-
74	E5-SGD2020-071	REINF. FOR LOCK STILE LAM. GLASS	6063-T6	-
75	E5-SGD2020-068	FRAME FRONT SILL	6063-T6	-
76	ALU-P-018	SUPPORT FOR HANDLE LOCK	6063-T6	-
77	ALU-P-020	SUPPORT FOR HANDLE LOCK	6063-T6	-
78	E5-W525-014	COVER -POCKET	6063-T5	-
79	E5-SGD2020-069	HOOK STRIP BASE	6063-T6	-
80	E5-SGD2020-070	HOOK STRIP	6063-T6	-
81	E5-SGD2020-07X	REINFORCE FOR LOCK STILE (INSUL-LAM)	6063-T6	-
82	E5-SGD2020-041	SILL RAISER	6063-T6	-
83	-	# 10 X 3/8" P.H. TYP B	STAINLESS STEEL	-
84A	E5-SGD2020-084A	INTERLOCK HEAVY FOR LAMINATED GLASS	6005-T5	-
85A	E5-SGD2020-085A	INTERLOCK FOR LAMINATED GLASS	6005-T5	-
86A	E5-SGD2020-086A	INTERLOCK HEAVY FOR INSULATED LAMINATED GLASS	6005-T5	-
87A	E5-SGD2020-087A	INTERLOCK FOR INSULATED LAMINATED GLASS	6005-T5	-
88	D4304AMK.430"x1.00"x.370"	FOR (SLIDING PANEL) INTERLOCK AT SILL AND HEAD	POLYPROPYLENE	-
89	D5009AMK .500"x2.25"x.870"	FOR (SLIDING PANEL) INTERLOCK AT SILL AND HEAD	POLYPROPYLENE	-



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DRAWING NO.
AD16-29

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Sheet No.
57 OF 59

Rev. No.

Date

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Description

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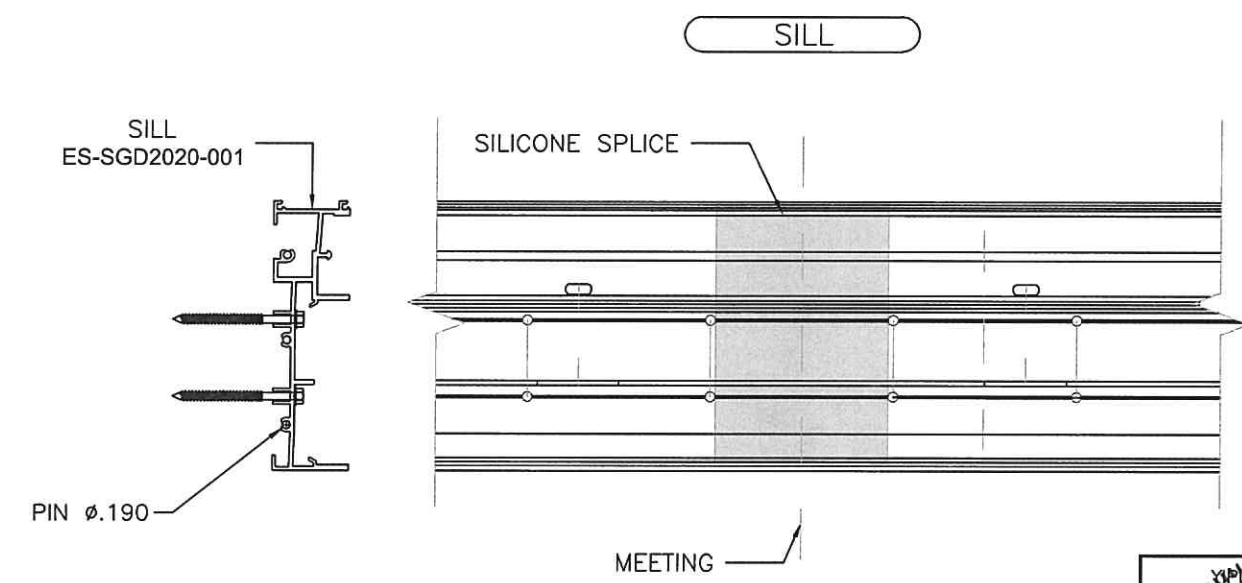
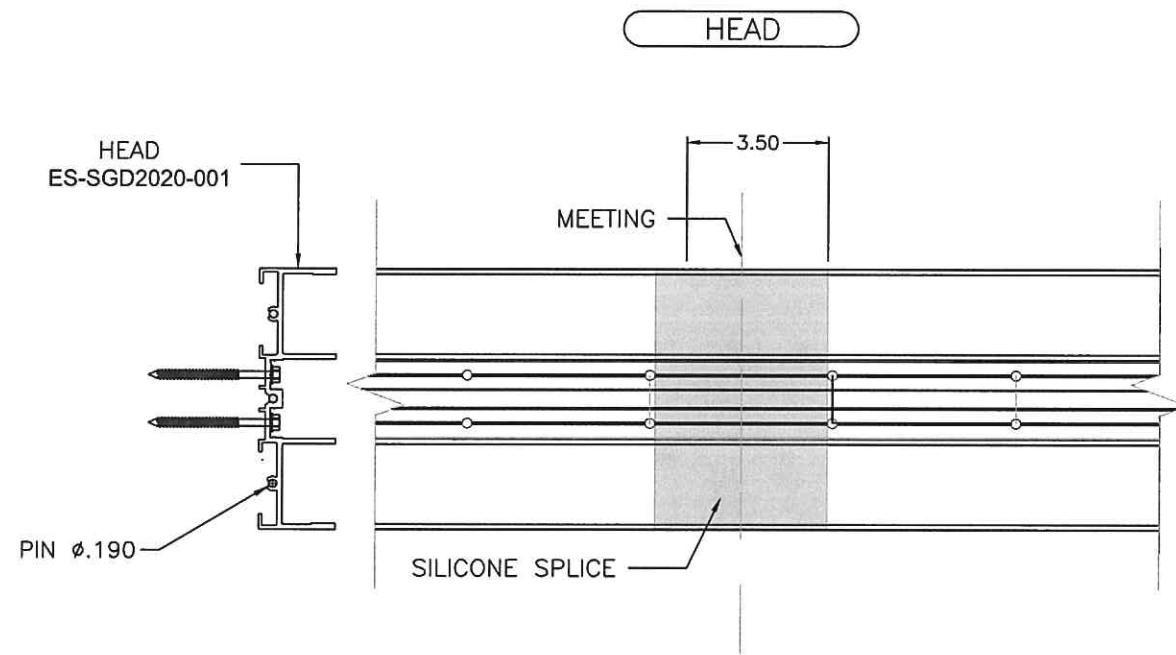
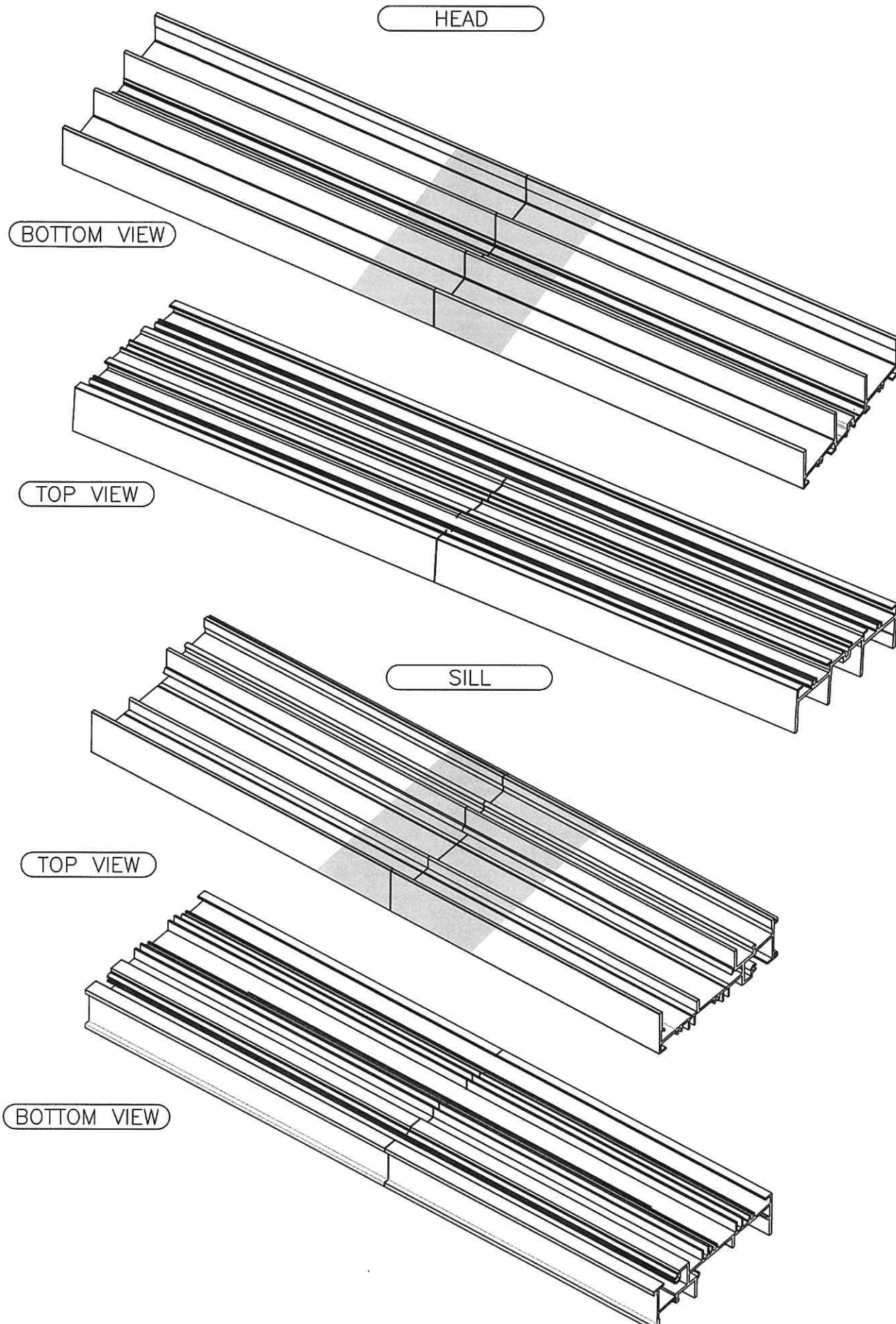
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Rev. No.	Date	Drawn By	Description
ES 10.08.2024	James	REVISION	

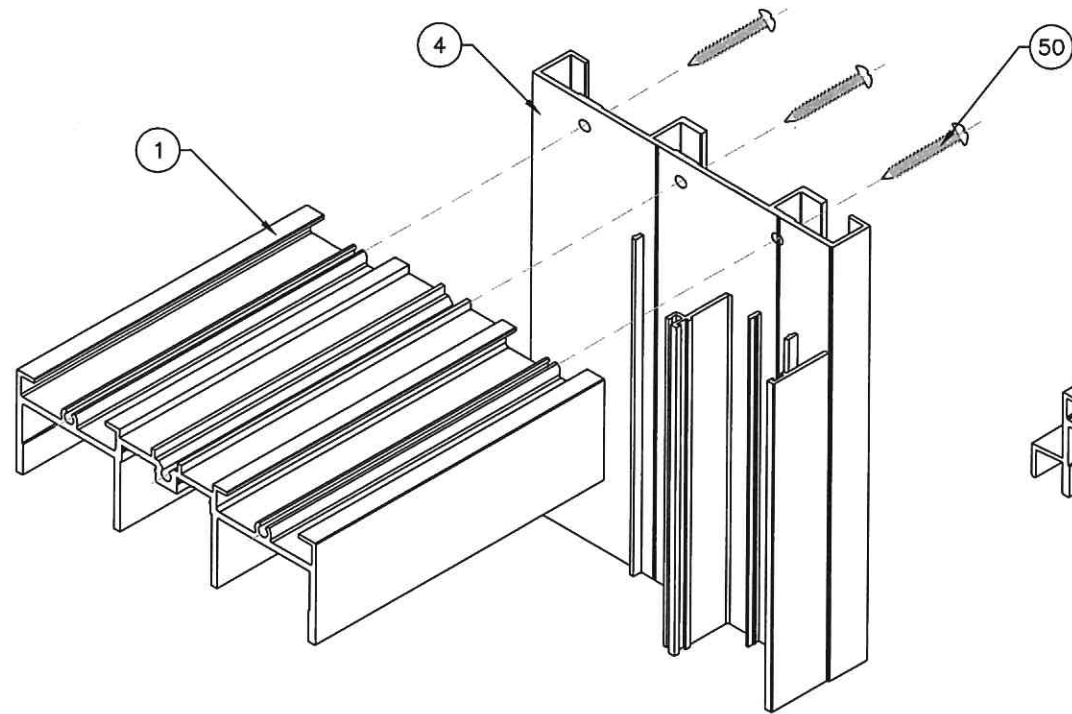
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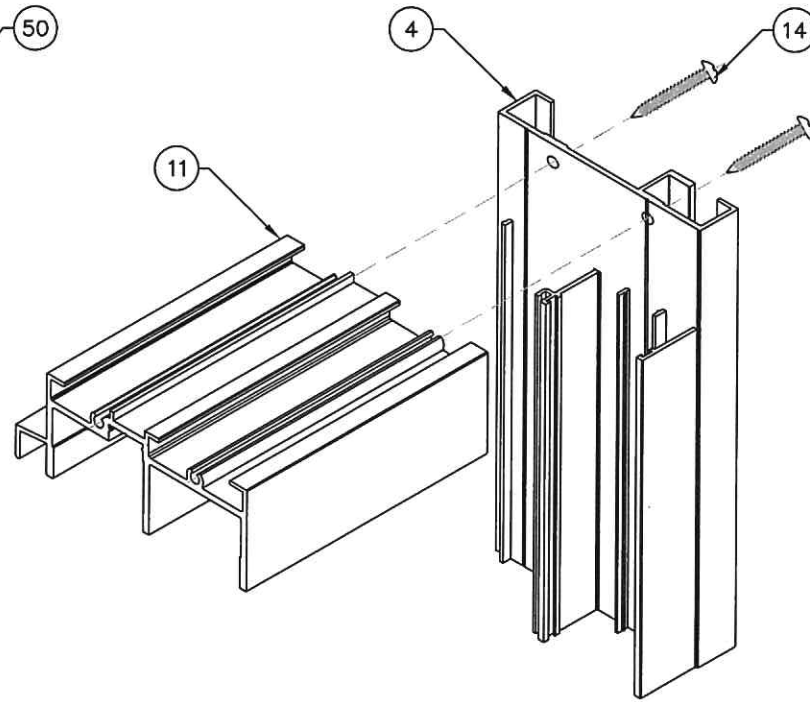
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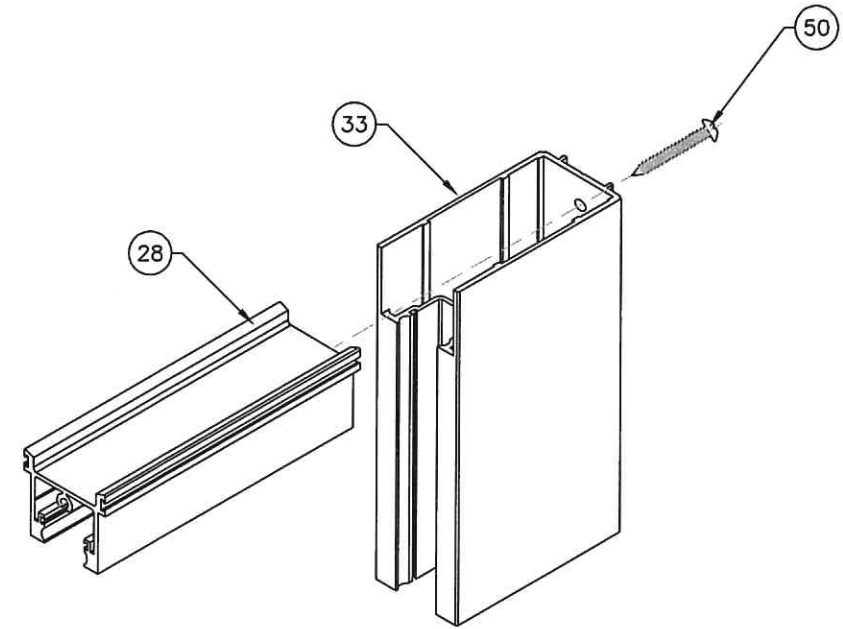
Sheet No.
58 OF 59



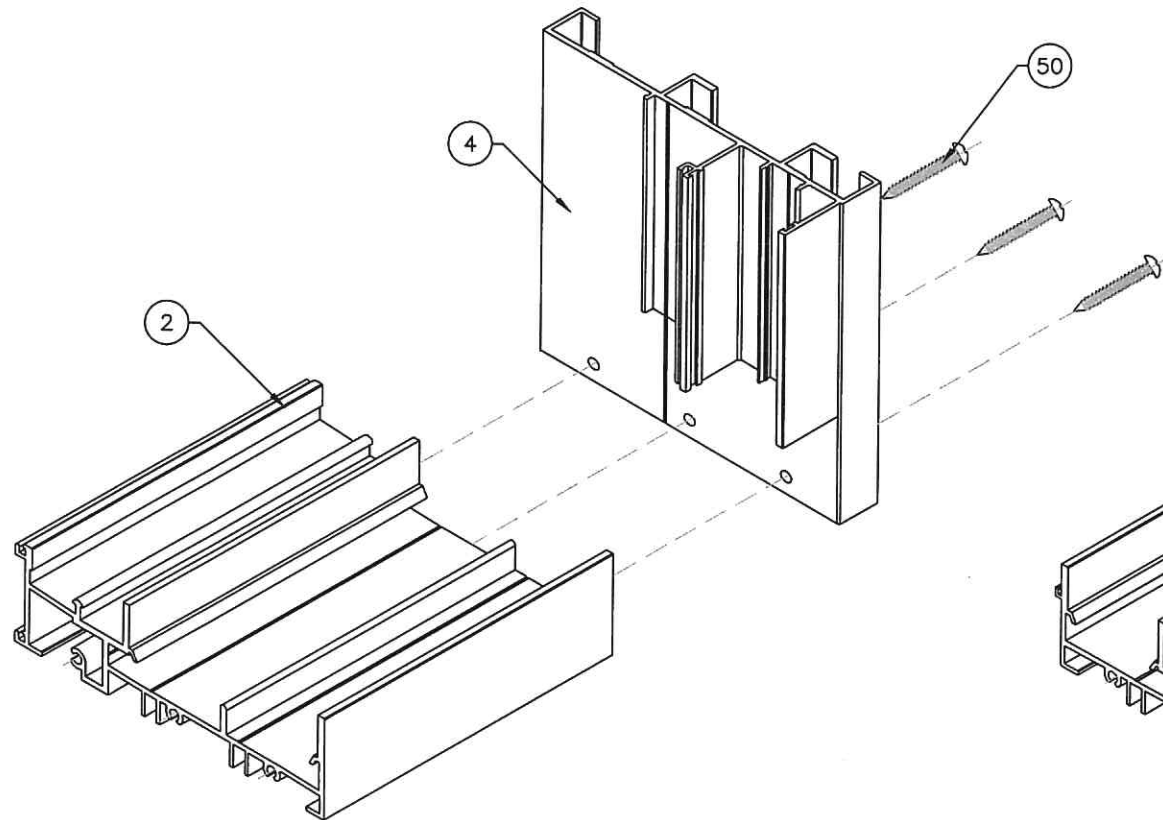
FRAME TOP CORNER
3 TRACK SHOWN



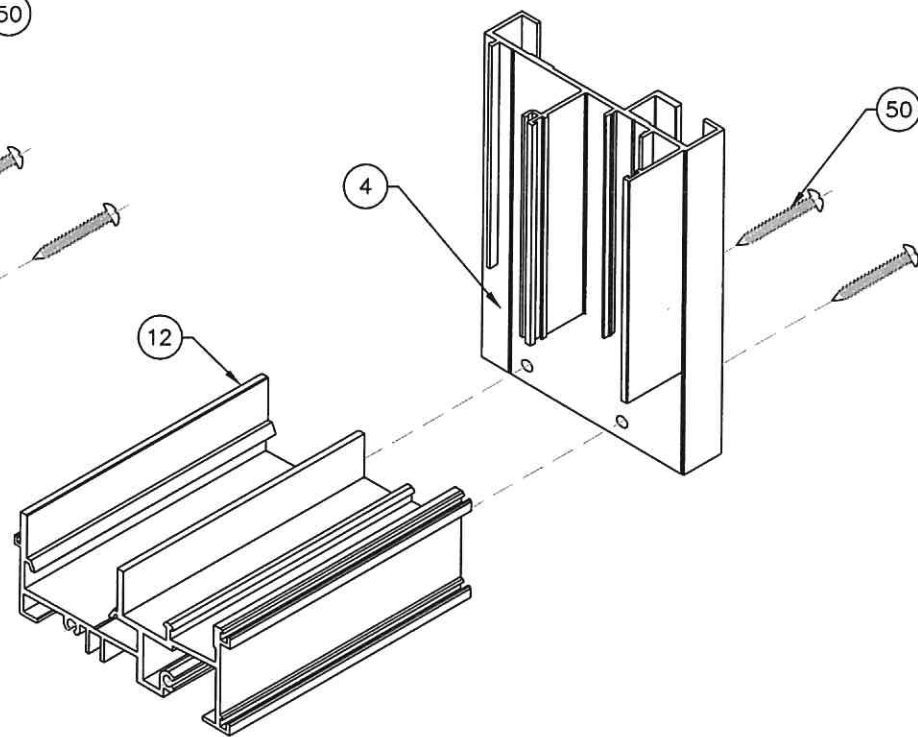
FRAME TOP CORNER
2 TRACK SHOWN



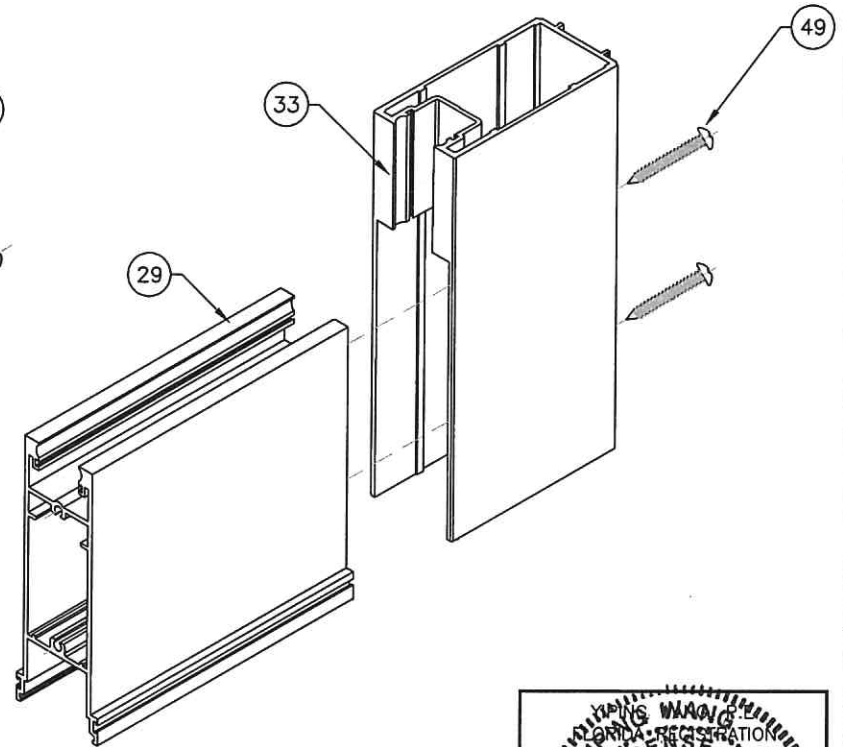
PANEL TOP CORNER



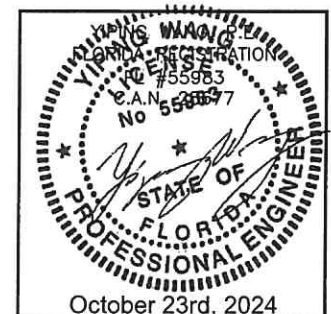
FRAME BOTTOM CORNER
3 TRACK SHOWN



FRAME BOTTOM CORNER
2 TRACK SHOWN



PANEL BOTTOM CORNER



Rev.	Date	Drawn By	Description
1	10-08-2024	Jerry	REVISION

Drawn Date
10.08.2024

DRAWING NO.
AD16-29

ISO

Sheet No.
59 OF 59