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Product Approval
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FL #

Application Type

Code Version

Application Status

Comments

Archived

Product Manufacturer

Address/Phone/Email

Authorized Signature

Technical Representative

Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category

Subcategory

Compliance Method

Florida Engineer or Architect Name who developed
the Evaluation Report

Florida License

Quality Assurance Entity

Quality Assurance Contract Expiration Date

Validated By

Certificate of Independence

Referenced Standard and Year (of Standard)

Equivalence of Product Standards
Certified By

FL29783-R16

Revision

2023

Approved

WinDoor Inc.

104 Triple Diamond Blvd
N Venice, FL 34275
(941) 486-0100
jrosowski@pgtindustries.com

Jens Rosowski
jrosowski@pgtindustries.com

Lynn Miller, P.E.
1070 Technology Dr
N Venice, FL 34275
(941) 486-0100 Ext 21142
lmiller@pgtindustries.com

Exterior Doors
Swinging Exterior Door Assemblies

Evaluation Report from a Florida Registered Architect or a Licensed Florida
Professional Engineer
☐ Evaluation Report - Hardcopy Received

A. Lynn Miller, P.E.

PE-58705
Keystone Certifications, Inc.
12/31/2032
Steven M. Urich, PE

☒ Validation Checklist - Hardcopy Received

[FL29783_R16_COI_Cert of Independence2.pdf](#)

Standard

AAMA/WDMA/CSA 101/I.S.2/A440
AAMA/WDMA/CSA 101/I.S.2/A440
AAMA/WDMA/CSA 101/I.S.2/A440
TAS 201, 202, 203

Year

2011
2017
2008
1994

SHOP DRAWING / SUBMITTAL REVIEW

☒ APPROVED

☐ APPROVED WITH CHANGES NOTED

☐ REVISE AND RESUBMIT

☐ REJECTED:

SUBMITTAL WAS REVIEWED FOR DESIGN CONFORMITY AND GENERAL
CONFORMANCE TO CONTRACT DOCUMENTS ONLY. THE CONTRACTOR
IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS
AT JOB SITES FOR TOLERANCES, CLEARANCES, QUANTITIES,
FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION,
COORDINATION OF HIS WORK WITH OTHER TRADES AND FULL
COMPLIANCE WITH THE CONTRACT DOCUMENTS.

BY Julio Pulido DATE 04-15-25

NOVUS ARCHETYPE, LLC
12721 SW 30 ST
MIAMI, FL 33175

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted

06/25/2024

Date Validated

06/25/2024

Date Pending FBC Approval

06/27/2024

Date Approved

08/13/2024

Date Revised

02/13/2025

Summary of Products

FL #	Model, Number or Name	Description
29783.1	FD450A	Impact Resistant, Inswing & Outswing, Aluminum French Door with/without Sidelites
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL29783_R16_II_450FPA-LM-1 - REV D.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL29783_R16_AE_FD450 LM - Eng Eval - REV D.pdf Created by Independent Third Party: No
29783.2	FD9850A	Non-impact Resistant, Outswing, Aluminum French Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL29783_R16_II_FD9850NI - FPA REV A.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL29783_R16_AE_FD9850 NI - Eng Eval REV A.pdf Created by Independent Third Party: No
29783.3	FD9950A	Impact Resistant, Outswing, Aluminum French Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL29783_R16_II_FD9950LMI - FPA REV B.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL29783_R16_AE_FD9950 LMI - Eng Eval REV B.pdf Created by Independent Third Party: No
29783.4	PV9998A	Impact Resistant, Inswing & Outswing, Aluminum Pivot Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL29783_R16_II_9998FPA-LM-2 - REV H.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL29783_R16_AE_PV9998A LM - Eng Eval H.pdf Created by Independent Third Party: No
29783.5	PV9998A	Non-Impact Resistant, Inswing & Outswing, Aluminum Pivot Door
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL29783_R16_II_9998FPA-NI-2 - REV D.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL29783_R16_AE_PV9998A NI - Eng Eval D.pdf Created by Independent Third Party: No
29783.6	TD9050A	LM Impact Resistant, Inswing & Outswing, Aluminum Terrace Door
Limits of Use Approved for use in HVHZ: Yes		Installation Instructions FL29783_R16_II_TD9050LMI-FPA - REV D.pdf

Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL29783_R16_AE_TD9050 LMI - Eng_Eval - REV D.pdf Created by Independent Third Party: No
29783.7	TD9050A	Non-impact Resistant, Inswing & Outswing, Aluminum Terrace Door
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: No Design Pressure: N/A Other: Please see the enclosed documents for product performance information, anchorage details, and anchor type, size, and spacing information.		Installation Instructions FL29783_R16_II_TD9050NI - REV B.pdf Verified By: A. Lynn Miller, P.E. PE-58705 Created by Independent Third Party: No Evaluation Reports FL29783_R16_AE_TD9050 NI - Eng_Eval - REV B.pdf Created by Independent Third Party: No

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Product Approval Accepts:



Engineering Evaluation Report # 450LM-022824

Prepared by:

A. Lynn Miller, P.E.
1070 Technology Dr.
N. Venice, FL 34275
(941) 480-1600
Registration Number: #29296

Manufacturer:

WinDoor Inc.
104 Triple Diamond Blvd
N. Venice, FL 34275

Product Description:

FD450A Series Impact-resistant Aluminum French Door, PW/Sidelite and Transom, (LM & SM); FL Approval #29783

Compliance:

The above-mentioned product has been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61 G20-3.005 method 1(d). The product listed herein complies with requirements of the current Florida Building Code.

This product has been evaluated and is in compliance with the current Florida Building Code, including the "High Velocity Hurricane Zone" (HVHZ).

Supporting Technical Documentation:

1. Approval document: drawing number 450FPA-LM-1, signed and sealed by A. Lynn Miller, P.E.
2. Test Report Nos. HTL-0080-0304-11, 0080-0902-11, 0080-912-97 (97055), 0080-0402-02 (01071) signed and sealed by Vinu J. Abraham, P.E.; Hurricane Testing Laboratories
Test report Nos. CTLA-3056WA thru C signed and sealed by Ramesh C. Patel, P.E.; Certified Testing Laboratories
Test report Nos. ATI-B5234.03-450-18 signed and sealed by Vinu J. Abraham, P.E.; Architectural Testing Inc.
Test Report FTL 17-7534, signed and sealed by Idalmis Ortega, P.E.; Fenestration Testing Laboratories, Medley, FL 33166

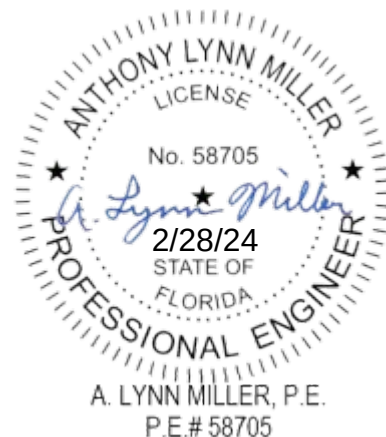
TAS 201-94 Large Missile Impact Test
TAS 202-94 Uniform Static Air Pressure Test
TAS 203-94 Cyclic Pressure Loading Test

3. Calculations, signed and sealed by Javad Ahmad, P.E. dated 10/27/14, 8/27/15 & 6/29/12A. Calculations, signed and sealed by Lynn Miller, P.E., dated 3/26/20, 6/20/20 & 7/17/20.

4. Miami-Dade RER Product Control Section NOA's; Various interlayers as noted.

Limitations and Conditions of use:

- Units must be glazed per ASTM E1300-09, refer to approval document for glazing details.
- This product is rated to be used in the HVHZ.
- This product is impact resistant and does not require impact protection in wind borne debris regions.
- Frame and panel material to be extruded Aluminum.
- Units must be installed in accordance with approval document.



SERIES FD450 IMPACT-RESISTANT, INSWING & OUTSWING, FRENCH DOOR W/WO TRANSOM OR SIDELITES

- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT FLORIDA BUILDING CODE, (FBC), INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE A. ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SUBSTRATE. WOOD BUCKS DEPICTED AS 2X ARE 1-1/2" THICK OR GREATER. 1X AND 2X BUCKS (WHEN USED) SHALL BE DESIGNED TO PROPERLY TRANSFER LOADS TO THE STRUCTURE. WOOD BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
- 4) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 5) SHIMS ARE REQUIRED AT EACH ANCHOR LOCATIONS WHERE THE PRODUCT IS NOT FLUSH TO THE SUBSTRATE. USE SHIMS CAPABLE OF TRANSFERRING APPLIED LOADS. WOOD BUCKS, BY OTHERS, MUST BE SUFFICIENTLY ANCHORED TO RESIST LOADS IMPOSED ON THEM BY THE DOOR.
- 6) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WIND LOADS CORRESPONDING TO THE REQUIRED DESIGN PRESSURE. THE 33-1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. THE 1.6 LOAD DURATION FACTOR WAS USED FOR THE EVALUATION OF ANCHORS INTO WOOD. ANCHORS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE FOR CORROSION RESISTANCE.
- 7) DOOR SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS OF THE FBC, AS APPLICABLE. ALL CONFIGURATIONS SHOWN ARE AVAILABLE AS MULTIPLE PANELS. MAXIMUM OVERALL FRAME SQUARE FOOTAGE FOR VERTICAL, SELF-MULLING SYSTEMS IS 125 FT². FOR SYSTEMS USING A TRANSOM, SEE SHEET 4 FOR LIMITATIONS. FOR LARGER AREAS USE STRUCTURAL MULLIONS FROM SEPARATE APPROVAL.

TABLE A:

Anchor Group	Anchor Type	Substrate	Anchor Location	Min. Embedment	Min. Edge Distance
A	1/4" DeWalt UltraCon+	Southern Pine (SG = 0.55)	Head & Jamb	1-3/8"	1"
		Hollow or Grout-filled CMU (ASTM C90)		1-1/4"	2-1/2"
		Concrete (min. 3.0 ksi)		1-1/4"	2-1/2"
	#14 Steel SMS (Gr. 5) (Min. of 3 threads beyond substrate.)	Aluminum, 6063-T5		1/8"	1"
		Steel, A36		0.071" (14 Ga)	1"
		Steel Stud, A653 Gr. 33		0.071" (14 Ga)	1"
B	1/4" DeWalt Ultracon+	Concrete (min. 3.0 ksi)	Head & Sill	1-3/4"	2-1/2"
C	5/16" DeWalt UltraCon	Concrete (min. 3.0 ksi)	ADA Sill (P# 9)	1-3/4"	3-1/8"
D	#14 Steel SMS (Gr. 5)	Southern Pine (SG = 0.55)	Sills (P# 5 or 10)	1-3/8"	1"

1) ALL ANCHOR HEAD TYPES ARE APPLICABLE, FLATHEAD RECOMMENDED FOR ADA SILL.

TABLE 1:

Lock Design Pressures, PSF									
Lock Type	Description	Door Frame Height							
		84-3/4"		96-3/4"		108-3/4"		120-3/4"	
		(+)	(-)	(+)	(-)	(+)	(-)	(+)	(-)
1	Copper Creek with 3-Point Lock	90.0	90.0	90.0	90.0	-	-	-	-
2	Baldwin with 3-Point Lock	100.0	110.0	100.0	110.0	100.0	110.0	70.0	70.0
3	Regent Commercial with 3-Point Lock	100.0	110.0	100.0	110.0	100.0	110.0	70.0	70.0
4	Baldwin Single Point Lock	65.0	65.0	65.0	65.0	-	-	-	-
5	Copper Creek Single Point Lock	65.0	65.0	65.0	65.0	-	-	-	-
6	Door-O-Matic, Series 1690	80.0	80.0	70.0	70.0	-	-	-	-
7	Jackson, Series 2065/2085	80.0	80.0	70.0	70.0	-	-	-	-
8	Surface Mounted Lock	100.0	110.0	90.0	90.0	90.0	90.0	70.0	70.0

- 1) LOCK TYPES 6 & 7 ARE NOT AVAILABLE FOR INSWING CONFIGURATIONS.
- 2) LADDER PULL HANDLE MAY BE USED WITH LOCK TYPES 2 OR 3.

FLORIDA PRODUCT APPROVAL #29783

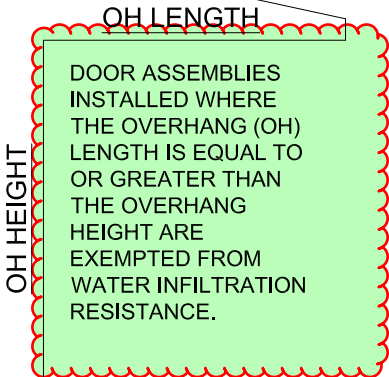
DESIGN PRESSURE RATING	IMPACT RATING
VARIES WITH OPTIONS, SEE TABLES 1 - 7	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

INSTRUCTIONS TO USING THE TABLES:

- 1) FOR YOUR STRUCTURE AND PRODUCT OPTIONS, DETERMINE THE MINIMUM DESIGN PRESSURE REQUIRED BASED ON PROVISIONS OF THE CURRENT FLORIDA BUILDING CODE (FBC).
- 2) CHECK THE ALLOWABLE EXTERIOR AND INTERIOR DESIGN PRESSURES FROM APPROPRIATE TABLES ON THE FOLLOWING SHEETS. THE DESIGN PRESSURE FROM SEVERAL DIFFERENT PARTS MUST FIRST BE ASCERTAINED, AND THEN THE LOWEST VALUE USED AS THE FINAL, OVERALL DESIGN PRESSURE.
- A) DETERMINE WATER INFILTRATION REQUIREMENTS BASED ON PROVISIONS OF THE FBC AND FIGURES 1 & 2 ON THIS SHEET FOR DOORS. DEPENDING ON YOUR CHOSEN PRODUCT, THIS MAY LIMIT YOUR (+) DESIGN PRESSURE.
- B) FROM TABLE 1, DETERMINE THE DESIGN PRESSURE BASED ON YOUR DOOR LOCK TYPE.
- C) FOR SINGLE DOORS (X) AND STAND-ALONE SIDELITES (O), DETERMINE THE DESIGN PRESSURE BASED ON YOUR GLASS TYPE FROM TABLE 2.
- D) FOR DOUBLE DOORS (XX), DETERMINE THE DESIGN PRESSURE BASED ON YOUR DOOR GLASS TYPE FROM TABLE 4 AND THE DOOR ANCHOR CLUSTER FROM TABLE 5.
- E) IF ATTACHING A SIDELITE (O) TO ANY DOOR, DETERMINE THE DESIGN PRESSURE FOR THE SIDELITE BASED ON GLASS TYPE FROM TABLE 2, ANCHORAGE FROM TABLE 3 AND MULLION CAPACITY FROM TABLE 7.
- F) IF USING A TRANSOM, FROM TABLE 6, DETERMINE THE DESIGN PRESSURE BASED ON YOUR TRANSOM GLASS TYPE.

THE LOWEST DESIGN PRESSURE FROM A-F ABOVE SHALL CONTROL THE ENTIRE SYSTEM.

FIGURE 1:



DOOR WATER INFILTRATION NOTES:

- 1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE STANDARD OUTSWING SILL, FIGURE 2, MUST BE USED.
- 2) IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIGURE 1, THE (+) DESIGN PRESSURES SHOWN IN THE TABLES MAY BE USED AND ANY THRESHOLD IS ACCEPTABLE.

FIGURE 2:



GUIDE TO SHEETS:

GENERAL NOTES.....	1
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ANCHOR LOCATIONS.....	6-7
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BILL OF MATERIALS.....	21

		104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432			PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600						
FD450A		1 OF 21		Sheet		GENERAL NOTES		ALUMINUM FRENCH DOOR (LM)		12/12/22	
						JENS ROSOWSKI		Date			
Series		Desc.		Title		By		Drawn		450FPA-LM-1	
										REGISTRATION #29296	
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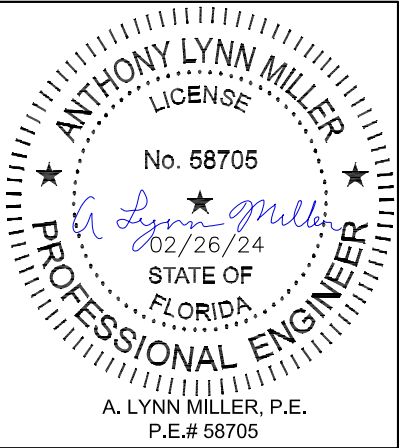


TABLE 2: SINGLE DOOR (X) AND/OR SIDELITES (O) DESIGN PRESSURES, PSF DUE TO GLAZING							
SGL DOOR (X) OR SIDELITE WIDTH*	FRAME HEIGHT	GLASS TYPES 1, 2, 3, 4 & COMPOSITE PANELS		GLASS TYPES 6 & 7		GLASS TYPES 5 & 8	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
26-9/16"	82-3/4"	100.0	110.0	70.0	70.0	90.0	90.0
32-9/16"		100.0	110.0	70.0	70.0	90.0	90.0
38-9/16"		100.0	110.0	70.0	70.0	90.0	90.0
44-9/16"		94.2	94.2	70.0	70.0	90.0	90.0
26-9/16"	84-3/4"	100.0	110.0	70.0	70.0	90.0	90.0
32-9/16"		100.0	110.0	70.0	70.0	90.0	90.0
38-9/16"		100.0	110.0	70.0	70.0	90.0	90.0
44-9/16"		94.2	94.2	70.0	70.0	90.0	90.0
26-9/16"	90-3/4"	100.0	110.0	70.0	70.0	90.0	90.0
32-9/16"		100.0	110.0	70.0	70.0	90.0	90.0
38-9/16"		100.0	110.0	70.0	70.0	90.0	90.0
44-9/16"		94.2	94.2	70.0	70.0	90.0	90.0
26-9/16"	96-3/4"	100.0	110.0	70.0	70.0	90.0	90.0
32-9/16"		100.0	110.0	70.0	70.0	90.0	90.0
38-9/16"		100.0	110.0	70.0	70.0	90.0	90.0
44-9/16"		59.9	59.9	59.9	59.9	-	-
26-9/16"	102-3/4"	100.0	110.0	70.0 **	70.0 **	-	-
32-9/16"		100.0	110.0	70.0 **	70.0 **	-	-
38-9/16"		100.0	110.0	70.0 **	70.0 **	-	-
44-9/16"		59.9	59.9	59.9 **	59.9 **	-	-
26-9/16"	108-3/4"	100.0	110.0	70.0 **	70.0 **	-	-
32-9/16"		100.0	110.0	70.0 **	70.0 **	-	-
38-9/16"		100.0	110.0	70.0 **	70.0 **	-	-
26-9/16"	114-3/4"	70.0	70.0	70.0 **	70.0 **	-	-
32-9/16"		70.0	70.0	70.0 **	70.0 **	-	-
38-9/16"		70.0	70.0	70.0 **	70.0 **	-	-
26-9/16"	120-3/4"	70.0	70.0	70.0 **	70.0 **	-	-
32-9/16"		70.0	70.0	70.0 **	70.0 **	-	-
38-9/16"		70.0	70.0	70.0 **	70.0 **	-	-

* NARROW STILE SIDELITES LIMITED TO 18" FRAME WIDTH OR LESS.
** GLASS LIMITED TO 96-3/4" FRAME HEIGHT. TALLER HEIGHTS REQUIRE A TRUE MUNTIN.

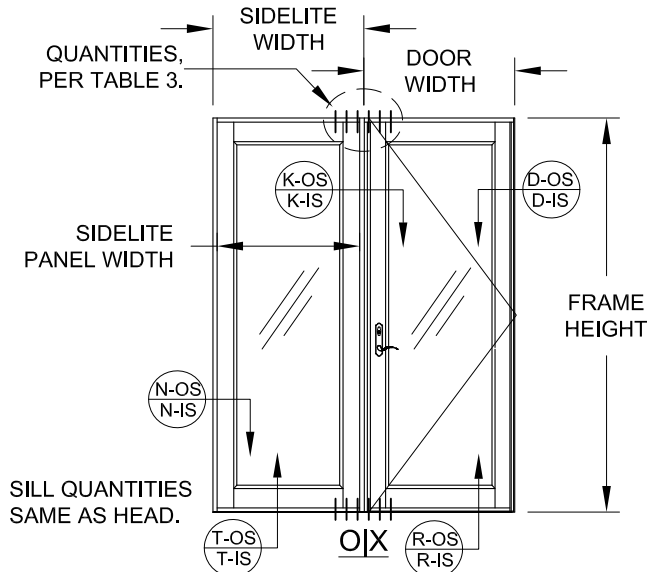
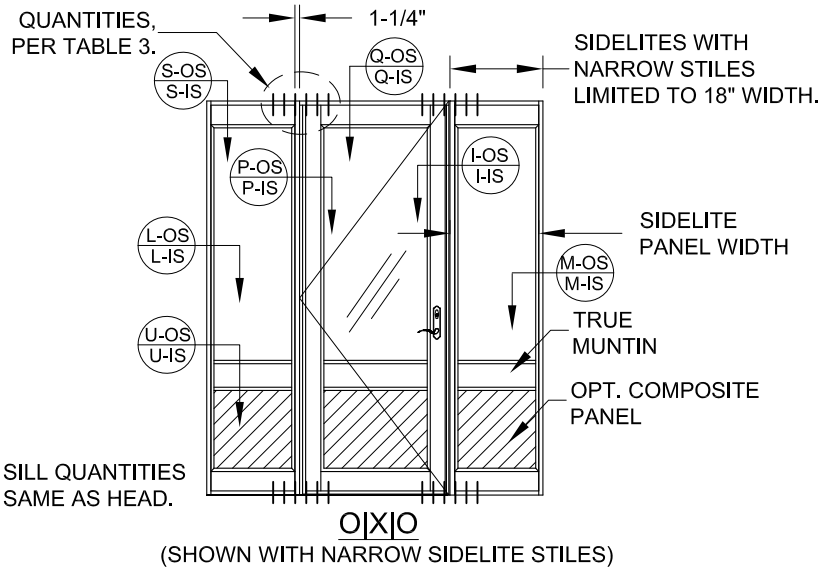
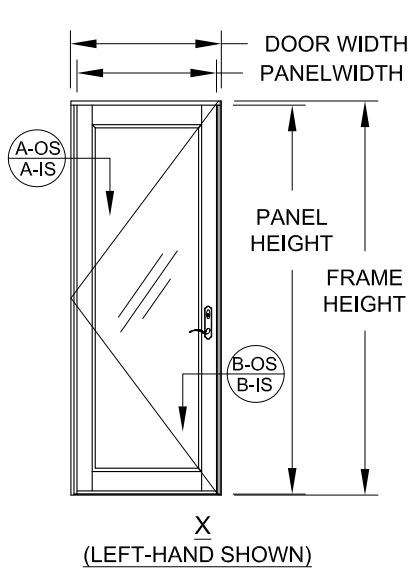
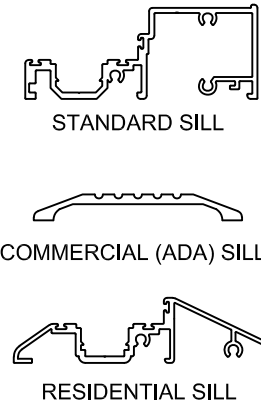


TABLE 3: DESIGN PRESSURES, PSF AT SIDELITES DUE TO ANCHORAGE TYPE							
ANCHOR TYPE (SEE SHEET 6 FOR LOCATIONS)		A @ HEAD		B @ HEAD, STD. SILL & RES. SILL		B @ HEAD, C @ COM. SILL & D @ STD. & RES. SILLS	
WIDTH "W"	FRAME HEIGHT	3 ANCHORS	4 ANCHORS	6 ANCHORS	3 ANCHORS	4 ANCHORS	3 ANCHORS
24"	82-3/4"	106.7	110.0	110.0	110.0	110.0	110.0
30"		86.2	110.0	110.0	110.0	110.0	110.0
36"		72.3	96.4	110.0	109.3	110.0	110.0
42"		62.3	83.0	110.0	94.2	110.0	110.0
24"	84-3/4"	104.2	110.0	110.0	110.0	110.0	110.0
30"		84.2	110.0	110.0	110.0	110.0	110.0
36"		70.6	94.1	110.0	106.7	110.0	110.0
42"		60.8	81.1	110.0	91.9	110.0	108.7
24"	90-3/4"	97.3	110.0	110.0	110.0	110.0	110.0
30"		78.6	104.8	110.0	110.0	110.0	110.0
36"		65.9	87.9	110.0	99.7	110.0	110.0
42"		56.8	75.7	110.0	85.9	110.0	101.5
24"	96-3/4"	91.2	110.0	110.0	110.0	110.0	110.0
30"		73.7	98.3	110.0	110.0	110.0	110.0
36"		61.9	82.5	110.0	93.5	110.0	110.0
42"		53.3	71.0	106.5	80.5	107.4	95.2
24"	102-3/4"	85.9	110.0	110.0	110.0	110.0	110.0
30"		69.4	92.6	110.0	104.9	110.0	110.0
36"		58.2	77.7	110.0	88.0	110.0	104.1
42"		50.2	66.9	100.3	75.8	101.1	89.6
24"	108-3/4"	81.2	108.2	110.0	110.0	110.0	110.0
30"		65.6	87.5	110.0	99.2	110.0	110.0
36"		55.0	73.4	110.0	83.2	110.0	98.3
24"	114-3/4"	76.9	102.6	110.0	110.0	110.0	110.0
30"		62.2	82.9	110.0	94.0	110.0	110.0
36"		52.2	69.5	104.3	78.8	105.1	93.2
24"	120-3/4"	73.1	97.5	110.0	110.0	110.0	110.0
30"		59.1	78.8	110.0	89.3	110.0	105.6
36"		49.6	66.1	99.1	74.9	99.9	88.6

WIDTH "W" = $\frac{\text{PANEL WIDTH} + \text{ADJACENT PANEL WIDTH}}{2} + 1.250$

NOTES:

- 1) CHECK THE ALLOWABLE DESIGN PRESSURES FROM THE APPROPRIATE TABLES OF ALL SHEETS PER THE INSTRUCTIONS ON SHEET 1. THE LOWEST DESIGN PRESSURE FROM ALL SHALL CONTROL THE ENTIRE SYSTEM.
- 2) EXAMPLE CONFIGURATIONS SHOWN. SIMILAR CONFIGURATIONS ALLOWED. DOORS MAY BE LEFT OR RIGHT-HANDED, INSWING OR OUTSWING & USE ANY LOCK FROM TABLE 1.
- 3) "OS" = OUTSWING; "IS" = INSWING; SEE DETAILS ON SHEETS 8-11 & 16 (OUTSWING) & 12-16 (INSWING).
- 4) IF TABLE 3 REQUIRES 3 ANCHORS, INSTALL 1 @ THE DOOR AND 2 @ THE SIDELITE OTHERWISE SPLIT QUANTITY EVENLY.



PREPARED BY A. LYNN MILLER
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N. VENICE, FL 34275
(941) 480-1600

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104 TRIPLE DIAMOND BLVD
N. VENICE, FL 34275
(833) 554-5432

ALUMINUM FRENCH DOOR (LM)

DESIGN PRESSURE TABLES

2 OF 21

FD450A

ANTHONY LYNN MILLER
LICENSE
No. 58705
02/26/24
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 4:

DOUBLE DOOR (XX) DESIGN PRESSURES, PSF DUE TO GLAZING							
DBL DOOR, XX WIDTH	FRAME HEIGHT	GLASS TYPES 1, 2, 3, 4 & COMPOSITE PANELS		GLASS TYPES 6 & 7		GLASS TYPES 5 & 8	
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
50-1/2"	82-3/4"	100.0	110.0	70.0	70.0	90.0	90.0
62-1/2"		100.0	110.0	70.0	70.0	90.0	90.0
74-1/2"		100.0	110.0	70.0	70.0	90.0	90.0
86-1/2"		94.2	94.2	70.0	70.0	90.0	90.0
50-1/2"	84-3/4"	100.0	110.0	70.0	70.0	90.0	90.0
62-1/2"		100.0	110.0	70.0	70.0	90.0	90.0
74-1/2"		100.0	110.0	70.0	70.0	90.0	90.0
86-1/2"		94.2	94.2	70.0	70.0	90.0	90.0
50-1/2"	90-3/4"	100.0	110.0	70.0	70.0	90.0	90.0
62-1/2"		100.0	110.0	70.0	70.0	90.0	90.0
74-1/2"		100.0	110.0	70.0	70.0	90.0	90.0
86-1/2"		94.2	94.2	70.0	70.0	90.0	90.0
50-1/2"	96-3/4"	100.0	110.0	70.0	70.0	90.0	90.0
62-1/2"		100.0	110.0	70.0	70.0	90.0	90.0
74-1/2"		100.0	110.0	70.0	70.0	90.0	90.0
86-1/2"		59.9	59.9	59.9	59.9	-	-
50-1/2"	102-3/4"	100.0	110.0	70.0 **	70.0 **	-	-
62-1/2"		100.0	110.0	70.0 **	70.0 **	-	-
74-1/2"		100.0	110.0	70.0 **	70.0 **	-	-
86-1/2"		59.9	59.9	59.9 **	59.9 **	-	-
50-1/2"	108-3/4"	100.0	110.0	70.0 **	70.0 **	-	-
62-1/2"		100.0	110.0	70.0 **	70.0 **	-	-
74-1/2"		100.0	110.0	70.0 **	70.0 **	-	-
50-1/2"	114-3/4"	70.0	70.0	70.0 **	70.0 **	-	-
62-1/2"		70.0	70.0	70.0 **	70.0 **	-	-
74-1/2"		70.0	70.0	70.0 **	70.0 **	-	-
50-1/2"	120-3/4"	70.0	70.0	70.0 **	70.0 **	-	-
62-1/2"		70.0	70.0	70.0 **	70.0 **	-	-
74-1/2"		70.0	70.0	70.0 **	70.0 **	-	-

** GLASS LIMITED TO 96-3/4" FRAME HEIGHT. TALLER HEIGHTS REQUIRE A TRUE MUNTIN.

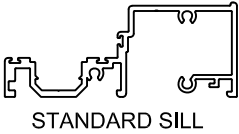
TABLE 5:

DESIGN PRESSURES, PSF @ XX DOOR MEETING STILE DUE TO ANCHORAGE									
DBL DOOR, XX WIDTH	FRAME HEIGHT	ANCHOR TYPE (SEE SHEET 6 FOR LOCATIONS)			B @ HEAD, STD. SILL & RES. SILL		B @ HEAD, C @ COM. SILL & D @ STD. & RES. SILLS		
		3 ANCHORS	4 ANCHORS	5 ANCHORS	3 ANCHORS	4 ANCHORS	3 ANCHORS	4 ANCHORS	
50-1/2"	82-3/4"	106.7	110.0	110.0	110.0	110.0	110.0	110.0	
62-1/2"		86.2	110.0	110.0	110.0	110.0	100.7	110.0	
74-1/2"		72.3	96.4	110.0	109.3	110.0	84.5	110.0	
86-1/2"		62.3	83.0	103.8	94.2	110.0	72.8	97.0	
50-1/2"	84-3/4"	104.2	110.0	110.0	110.0	110.0	110.0	110.0	
62-1/2"		84.2	110.0	110.0	110.0	110.0	98.4	110.0	
74-1/2"		70.6	94.1	110.0	106.7	110.0	82.5	110.0	
86-1/2"		60.8	81.1	101.4	91.9	110.0	71.1	94.8	
50-1/2"	90-3/4"	97.3	110.0	110.0	110.0	110.0	110.0	110.0	
62-1/2"		78.6	104.8	110.0	110.0	110.0	91.9	110.0	
74-1/2"		65.9	87.9	109.9	99.7	110.0	77.1	102.7	
86-1/2"		56.8	75.7	94.7	85.9	110.0	66.4	88.5	
50-1/2"	96-3/4"	91.2	110.0	110.0	110.0	110.0	106.6	110.0	
62-1/2"		73.7	98.3	110.0	110.0	110.0	86.2	110.0	
74-1/2"		61.9	82.5	103.1	93.5	110.0	72.3	96.4	
86-1/2"		53.3	71.0	88.8	80.5	107.4	62.3	83.0	
50-1/2"	102-3/4"	85.9	110.0	110.0	110.0	110.0	100.4	110.0	
62-1/2"		69.4	92.6	110.0	104.9	110.0	81.1	108.2	
74-1/2"		58.2	77.7	97.1	88.0	110.0	68.1	90.7	
86-1/2"		50.2	66.9	83.6	75.8	101.1	58.6	78.2	
50-1/2"	108-3/4"	81.2	108.2	110.0	110.0	110.0	94.9	110.0	
62-1/2"		65.6	87.5	109.3	99.2	110.0	76.7	102.2	
74-1/2"		55.0	73.4	91.7	83.2	110.0	64.3	85.7	
50-1/2"	114-3/4"	76.9	102.6	110.0	110.0	110.0	89.9	110.0	
62-1/2"		62.2	82.9	103.6	94.0	110.0	72.6	96.9	
74-1/2"		52.2	69.5	86.9	78.8	105.1	60.9	81.3	
50-1/2"	120-3/4"	73.1	97.5	110.0	110.0	110.0	85.4	110.0	
62-1/2"		59.1	78.8	98.5	89.3	110.0	69.0	92.0	
74-1/2"		49.6	66.1	82.6	74.9	99.9	57.9	77.2	

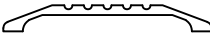
WIDTH "W" = PANEL WIDTH + ADJACENT PANEL WIDTH + 1.250

NOTES:

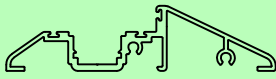
- 1) CHECK THE ALLOWABLE DESIGN PRESSURES FROM THE APPROPRIATE TABLES OF ALL SHEETS PER THE INSTRUCTIONS ON SHEET 1. THE LOWEST DESIGN PRESSURE FROM ALL SHALL CONTROL THE ENTIRE SYSTEM.
- 2) EXAMPLE CONFIGURATIONS SHOWN. SIMILAR CONFIGURATIONS ALLOWED. DOORS MAY BE LEFT OR RIGHT-HANDED, INSWING OR OUTSWING & USE ANY LOCK FROM TABLE 1.
- 3) "OS" = OUTSWING; "IS" = INSWING; SEE DETAILS ON SHEETS 8-11 & 16 (OUTSWING) & 12-16 (INSWING).



STANDARD SILL

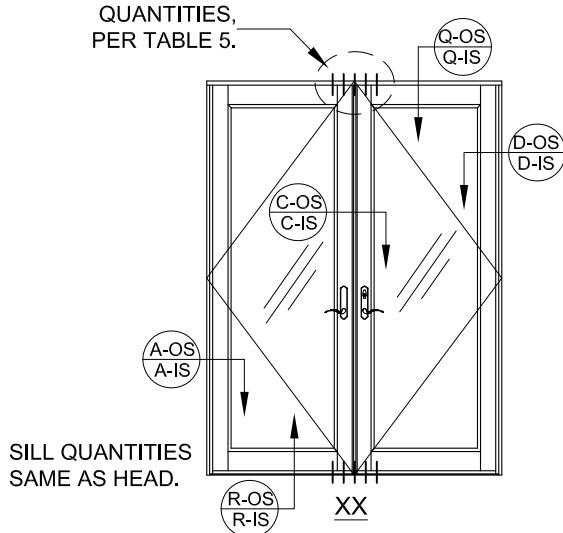


COMMERCIAL (ADA) SILL



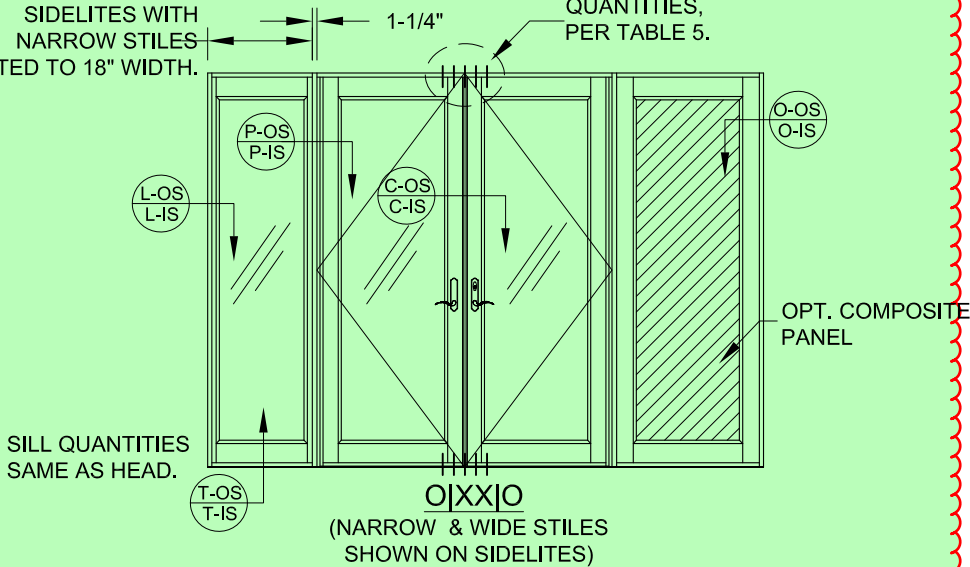
RESIDENTIAL SILL

QUANTITIES, PER TABLE 5.



SILL QUANTITIES SAME AS HEAD.

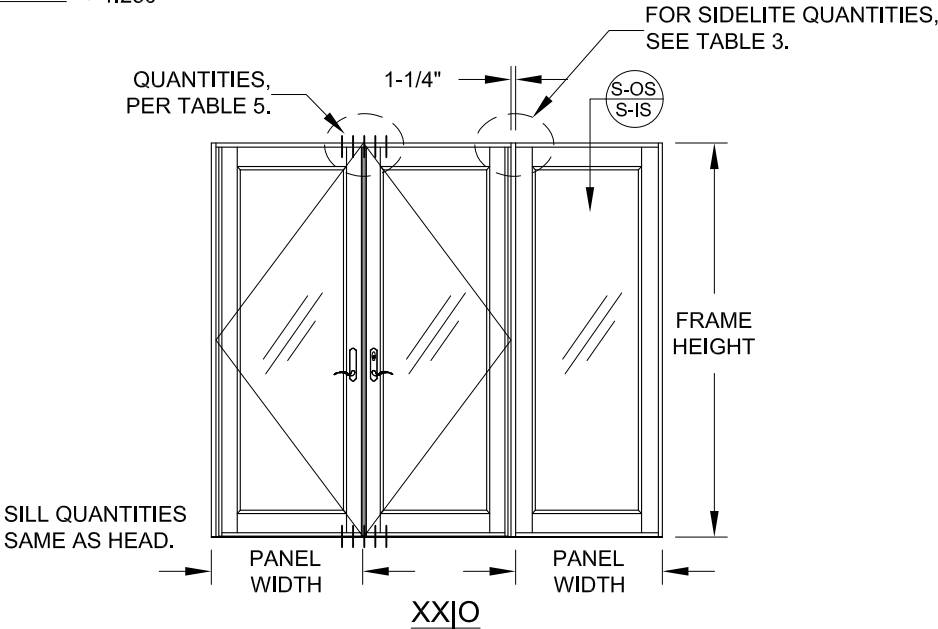
SIDELITES WITH NARROW STILES LIMITED TO 18" WIDTH.



SILL QUANTITIES SAME AS HEAD.

QUANTITIES, PER TABLE 5.

QUANTITIES, PER TABLE 5.



SILL QUANTITIES SAME AS HEAD.

FOR SIDELITE QUANTITIES, SEE TABLE 3.

 WINDOOR		104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	
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Title			Date	12/12/22	
DESIGN PRESSURE TABLES		JENS ROSOWSKI			
Desc.			Drawn By		
Series	FD450A	Sheet	3 OF 21		DWG No.
			450FPA-LM-1		

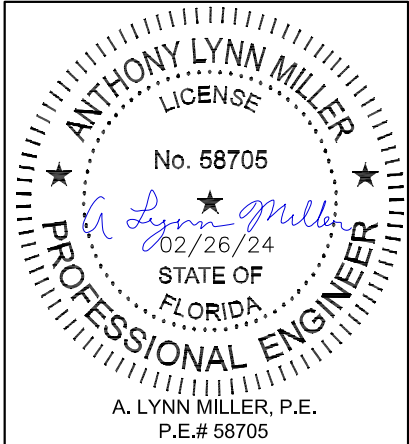


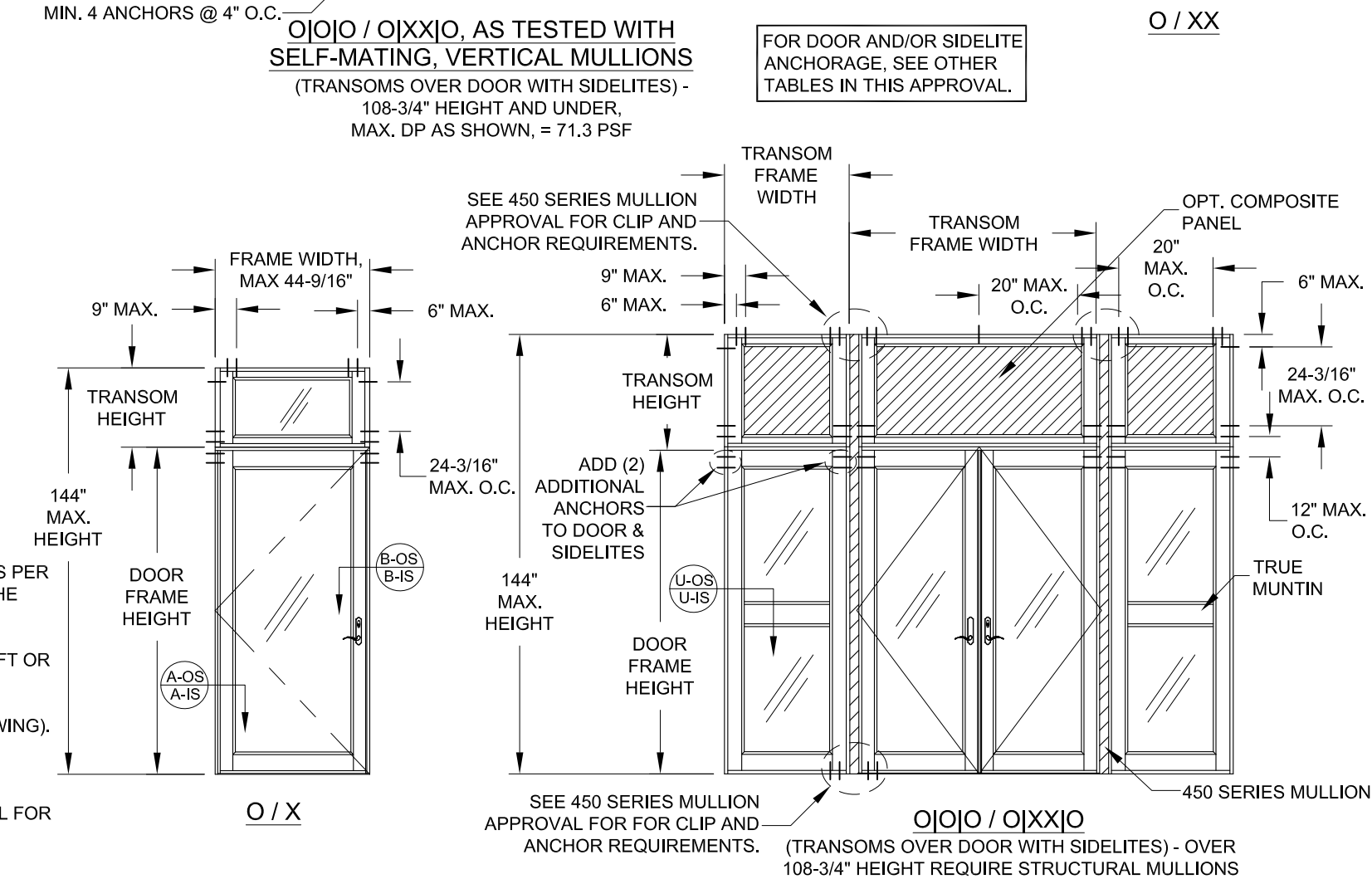
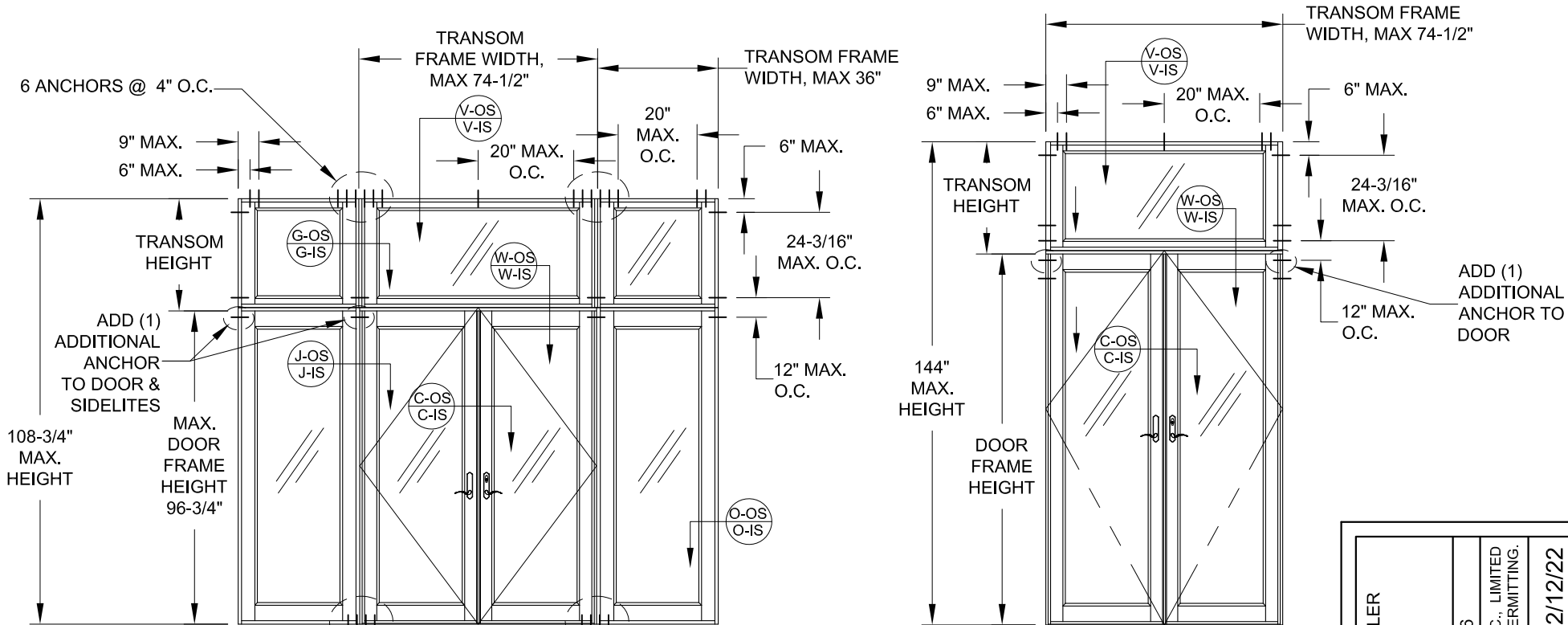
TABLE 6:

TRANSOM DESIGN PRESSURES - PSF DUE TO GLAZING								
TRANSOM FRAME WIDTH	DOOR FRAME HEIGHT	TRANSOM HEIGHT	GLASS TYPES 1, 2, 3, 4 & COMPOSITE PANELS		GLASS TYPES 6 & 7		GLASS TYPES 5 & 8	
			EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
60"	84"	24"	100.0	110.0	70.0	70.0	90.0	90.0
		30"	100.0	110.0	70.0	70.0	90.0	90.0
		36"	100.0	110.0	70.0	70.0	90.0	90.0
		42"	100.0	110.0	70.0	70.0	90.0	90.0
66"		24"	100.0	110.0	70.0	70.0	90.0	90.0
		30"	100.0	109.8	70.0	70.0	90.0	90.0
		36"	100.0	105.4	70.0	70.0	90.0	90.0
74-1/2"		24"	95.6	95.6	70.0	70.0	90.0	90.0
		30"	91.2	91.2	70.0	70.0	90.0	90.0
		36"	87.5	87.5	70.0	70.0	87.5	87.5
60"	96"	24"	100.0	110.0	70.0	70.0	90.0	90.0
		30"	100.0	110.0	70.0	70.0	90.0	90.0
		36"	100.0	110.0	70.0	70.0	90.0	90.0
		42"	100.0	110.0	70.0	70.0	90.0	90.0
66"		24"	100.0	103.2	70.0	70.0	90.0	90.0
		30"	99.0	99.1	70.0	70.0	90.0	90.0
		36"	96.0	95.6	70.0	70.0	90.0	90.0
74-1/2"		24"	86.0	86.0	70.0	70.0	86.0	86.0
		30"	82.5	82.5	70.0	70.0	82.5	82.5
		36"	79.4	79.4	70.0	70.0	79.4	79.4
60"	108"	24"	100.0	110.0	70.0	70.0	90.0	90.0
		30"	100.0	110.0	70.0	70.0	90.0	90.0
		36"	100.0	107.2	70.0	70.0	90.0	90.0
66"		24"	94.0	93.8	70.0	70.0	90.0	90.0
		30"	90.0	90.4	70.0	70.0	90.0	90.0
		36"	87.5	87.5	70.0	70.0	87.5	87.5
74-1/2"		24"	78.2	78.2	70.0	70.0	78.2	78.2
		30"	75.3	75.3	70.0	70.0	75.3	75.3
		36"	72.7	72.7	70.0	70.0	72.7	72.7
60"		120"	24"	100.0	104.9	70.0	70.0	90.0
66"	24"		86.0	86.0	70.0	70.0	86.0	86.0
74-1/2"	24"		71.7	71.7	70.0	70.0	71.7	71.7

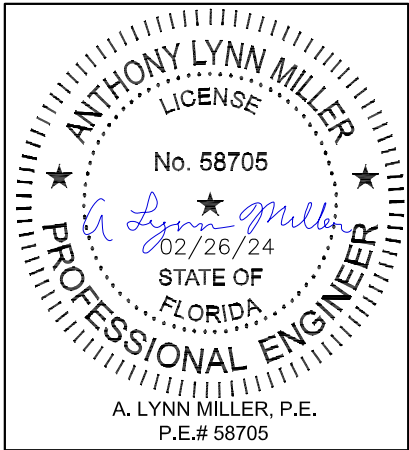
NOTES:

- 1) CHECK THE ALLOWABLE DESIGN PRESSURES FROM THE APPROPRIATE TABLES OF ALL SHEETS PER THE INSTRUCTIONS ON SHEET 1. THE LOWEST DESIGN PRESSURE FROM ALL SHALL CONTROL THE ENTIRE SYSTEM.
- 2) EXAMPLE CONFIGURATIONS SHOWN. SIMILAR CONFIGURATIONS ALLOWED. DOORS MAY BE LEFT OR RIGHT-HANDED, INSWING OR OUTSWING & USE ANY LOCK FROM TABLE 1.
- 3) "OS" = OUTSWING; "IS" = INSWING; SEE DETAILS ON SHEETS 8-11 & 16 (OUTSWING) & 12-16 (INSWING).
- 4) ANY ANCHOR TYPE FROM TABLE A MAY BE USED.
- 5) TOTAL HEIGHTS OVER 108-3/4" MUST USE A TUBE MULLION. SEE SEPARATE MULLION APPROVAL FOR SPECIFICS.

TRANSOM DLO WIDTH = TRANSOM FRAME WIDTH - 13-5/8"
TRANSOM DLO HEIGHT = TRANSOM FRAME HEIGHT - 4-5/8"



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WINDOOR 104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432	ALUMINUM FRENCH DOOR (LM) DESIGN PRESSURE TABLES	FD450A Sheet	4 OF 21 Series	450FPA-LM-1 Title

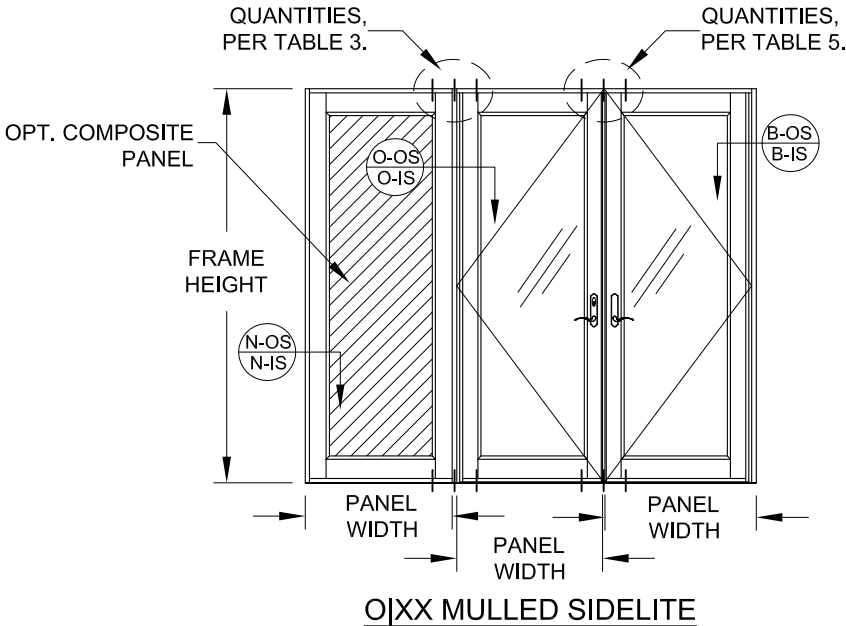
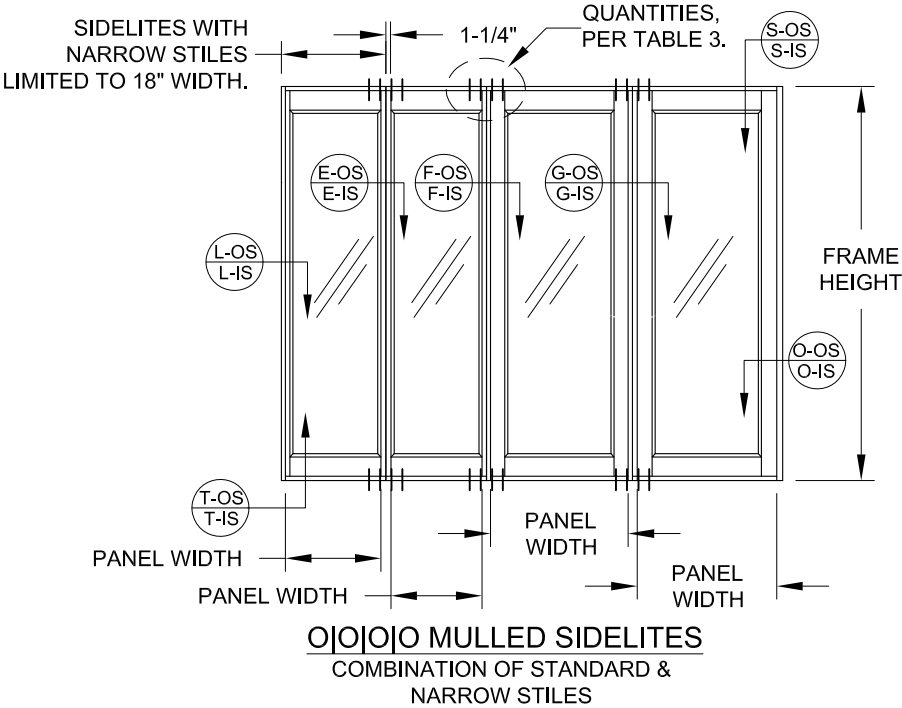


Rev.	NO CHANGES THIS SHEET.	Date	02/22/24	Rev. #	D
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TABLE 7:

MULLION DESIGN PRESSURES - PSF							
WIDTH "W"	FRAME HEIGHT	PANEL STILE TYPES BEING MULLED TOGETHER:					
		WIDE TO WIDE DETAILS G-OS, G-IS, J-OS, J-IS, K-OS & K-IS		WIDE TO NARROW DETAILS F-OS, F-IS, I-OS, I-IS, P-OS & P-IS		NARROW TO NARROW DETAILS E-OS & E-IS	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
18"	82-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
24"		100.0	110.0	100.0	110.0	100.0	110.0
30"		100.0	110.0	100.0	110.0	-	-
36"		100.0	110.0	100.0	110.0	-	-
42"		94.2	94.2	70.0	70.0	-	-
18"	84-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
24"		100.0	110.0	100.0	110.0	100.0	110.0
30"		100.0	110.0	100.0	110.0	-	-
36"		100.0	110.0	100.0	110.0	-	-
42"		94.2	94.2	-	-	-	-
18"	90-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
24"		100.0	110.0	100.0	110.0	70.0	70.0
30"		100.0	110.0	100.0	110.0	-	-
36"		100.0	110.0	70.0	70.0	-	-
42"		94.2	94.2	-	-	-	-
18"	96-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
24"		100.0	110.0	100.0	110.0	70.0	70.0
30"		100.0	110.0	100.0	110.0	-	-
36"		100.0	110.0	-	-	-	-
42"		59.9	59.9	-	-	-	-
18"	102-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
24"		100.0	110.0	100.0	110.0	-	-
30"		100.0	110.0	100.0	100.4	-	-
36"		98.9	98.9	-	-	-	-
42"		59.9	59.9	-	-	-	-
18"	108-3/4"	100.0	110.0	100.0	110.0	100.0	110.0
24"		100.0	110.0	100.0	104.1	-	-
30"		98.1	98.1	70.0	70.0	-	-
36"		82.9	82.9	-	-	-	-
18"	114-3/4"	70.0	70.0	70.0	70.0	100.0	110.0
24"		70.0	70.0	70.0	70.0	-	-
30"		70.0	70.0	-	-	-	-
36"		70.0	70.0	-	-	-	-
18"	120-3/4"	70.0	70.0	70.0	70.0	70.0	70.0
24"		70.0	70.0	70.0	70.0	-	-
30"		70.0	70.0	-	-	-	-
36"		59.9	59.9	-	-	-	-

WIDTH "W" = $\frac{\text{PANEL WIDTH} + \text{ADJACENT PANEL WIDTH}}{2} + 1.250$



NOTES:

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PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

WINDOOR

104 TRIPLE DIAMOND BLVD
N. VENICE, FL 34275
(833) 554-5432

ALUMINUM FRENCH DOOR (LM)

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DESIGN PRESSURE TABLES

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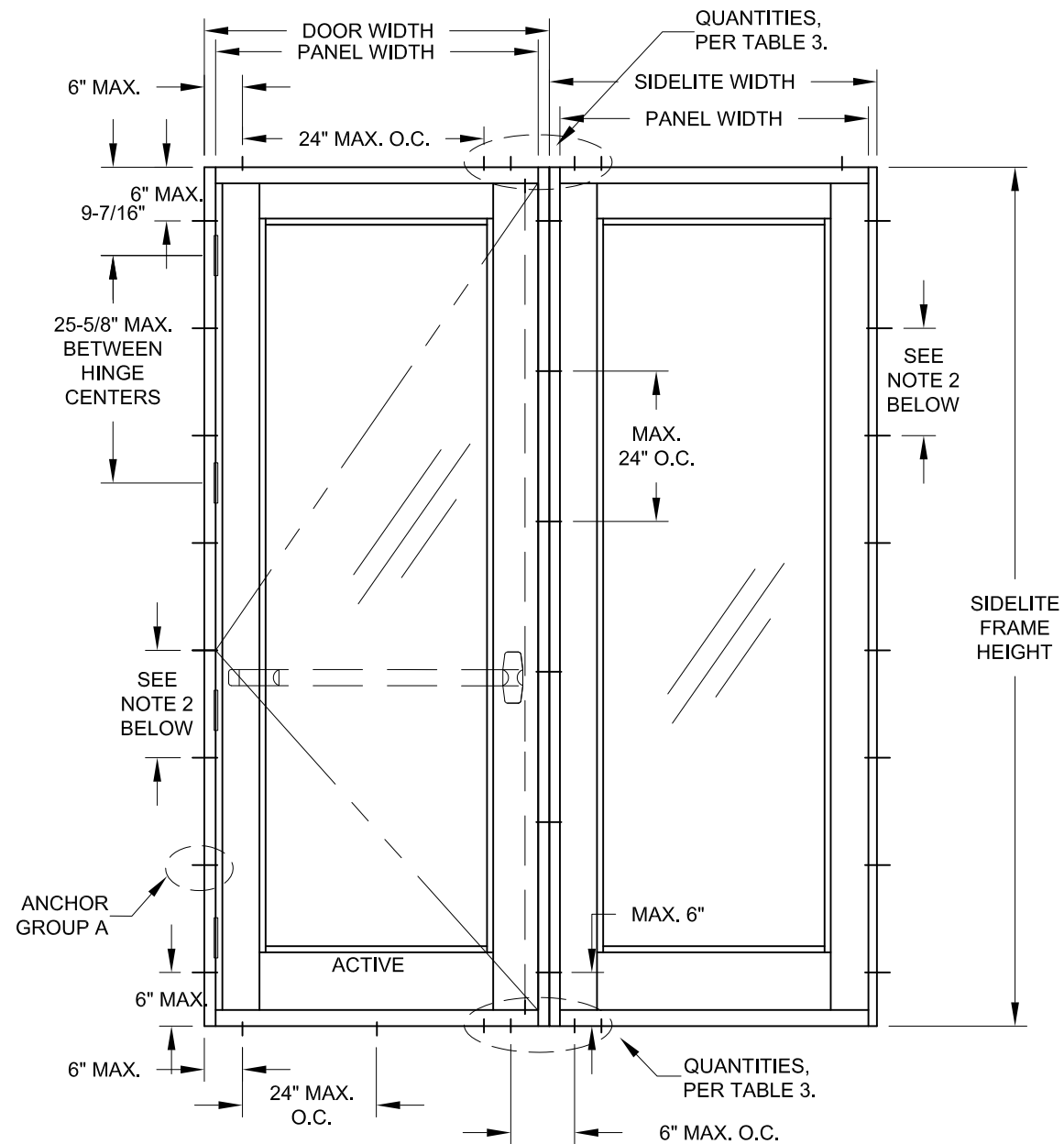
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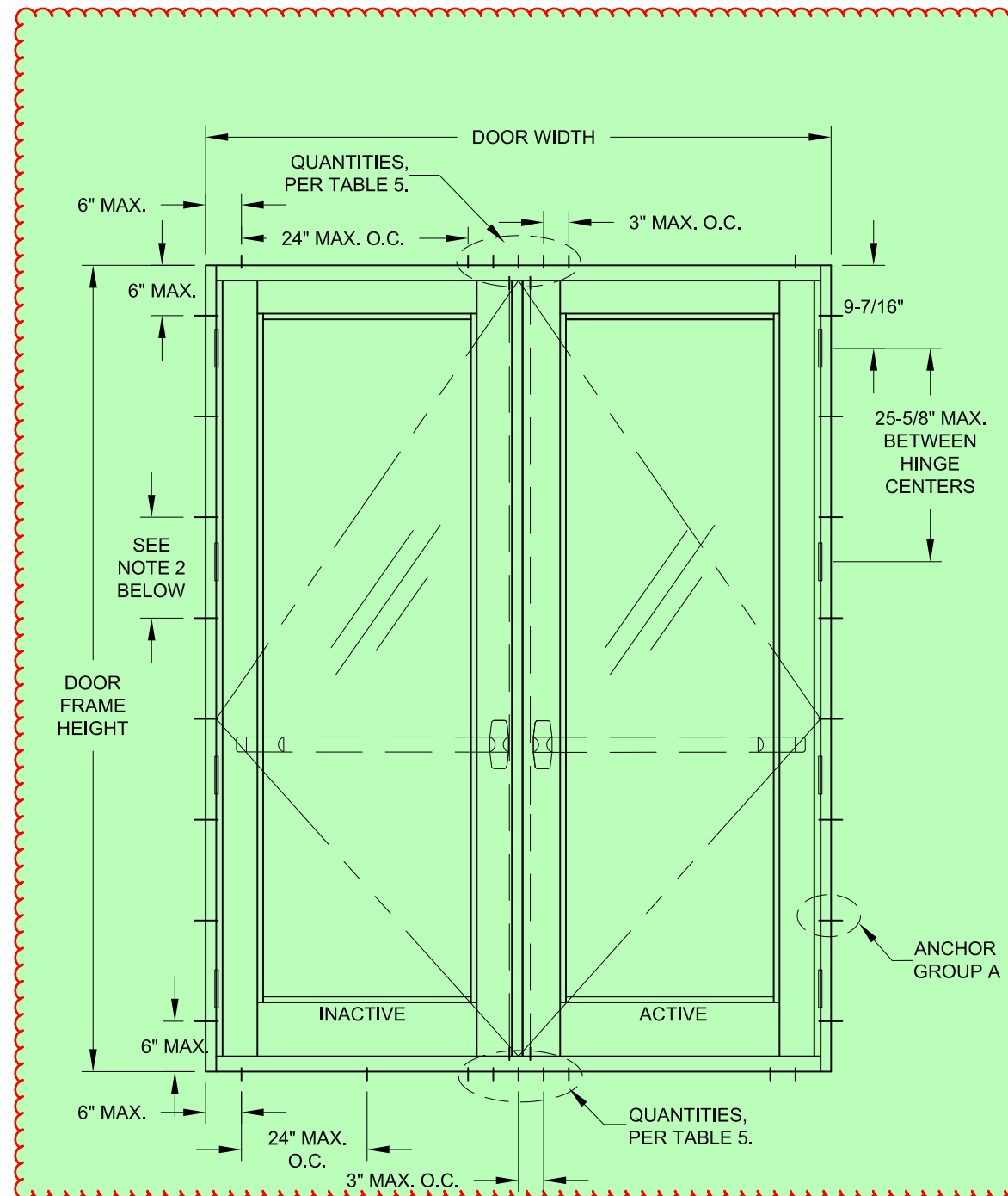
5 OF 21

450FPA-LM-1

ANTHONY LYNN MILLER
LICENSE
No. 58705
02/26/24
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



TYPICAL XJO CONFIGURATION ANCHOR LOCATIONS
SHOWN WITH OPT. COMMERCIAL PANIC HARDWARE



TYPICAL XX DOOR ANCHOR LOCATIONS
SHOWN WITH OPT. COMMERCIAL PANIC HARDWARE

NOTES:

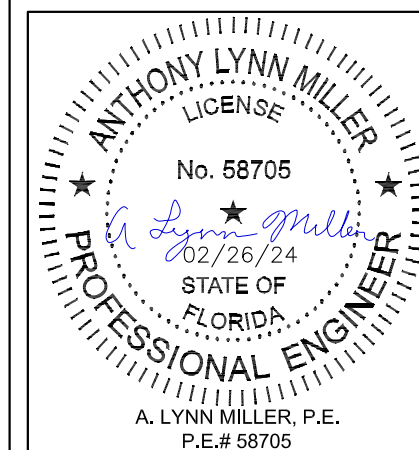
1) EXAMPLE CONFIGURATIONS SHOWN. SIMILAR CONFIGURATIONS ALLOWED. DOORS MAY BE LEFT OR RIGHT-HANDED, INSWING OR OUTSWING & USE ANY LOCK FROM TABLE 1.

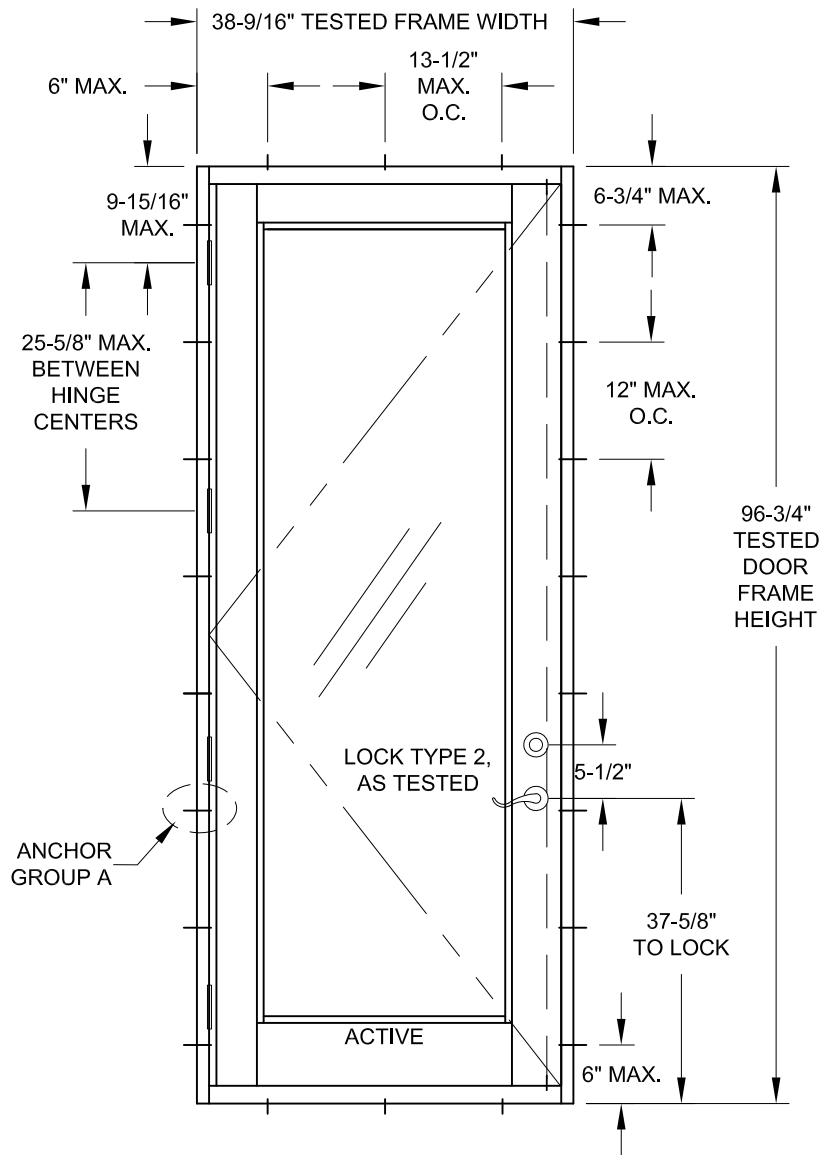
2) ANCHOR GROUP A, JAMB SPACING AS FOLLOWS:
19-3/8" MAX. O.C. FOR DESIGN PRESSURES UP TO 70 PSF
14-1/2" MAX. O.C. FOR DESIGN PRESSURES UP TO 110 PSF
12" MAX. O.C. FOR DESIGN PRESSURES OVER 110 PSF

HINGE LOCATIONS		
MAX. FRAME HEIGHT	NO. REQD.	MAX. SPACING
UP TO 90-3/4"	3	35 1/2"
ABOVE 90-3/4" UPTO 120-3/4"	4	44 1/2"

DOOR/SIDELITE DLO WIDTH = DOOR/SIDELITE PANEL WIDTH - 11"
DOOR/SIDELITE DLO HEIGHT = DOOR/SIDELITE PANEL HEIGHT - 13-1/2"
NARROW STILE SIDELITE DLO WIDTH = SIDELITE PANEL WIDTH - 4"
FRAME HEIGHT = PANEL HEIGHT + 1-7/8" (STD. THRESHOLD)
FRAME HEIGHT = PANEL HEIGHT + 1-5/8" (ADA THRESHOLD)
FRAME WIDTH = PANEL WIDTH + 2-13/16"

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	104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		ALUMINUM FRENCH DOOR (LM)		By		DWG		6 OF 21	

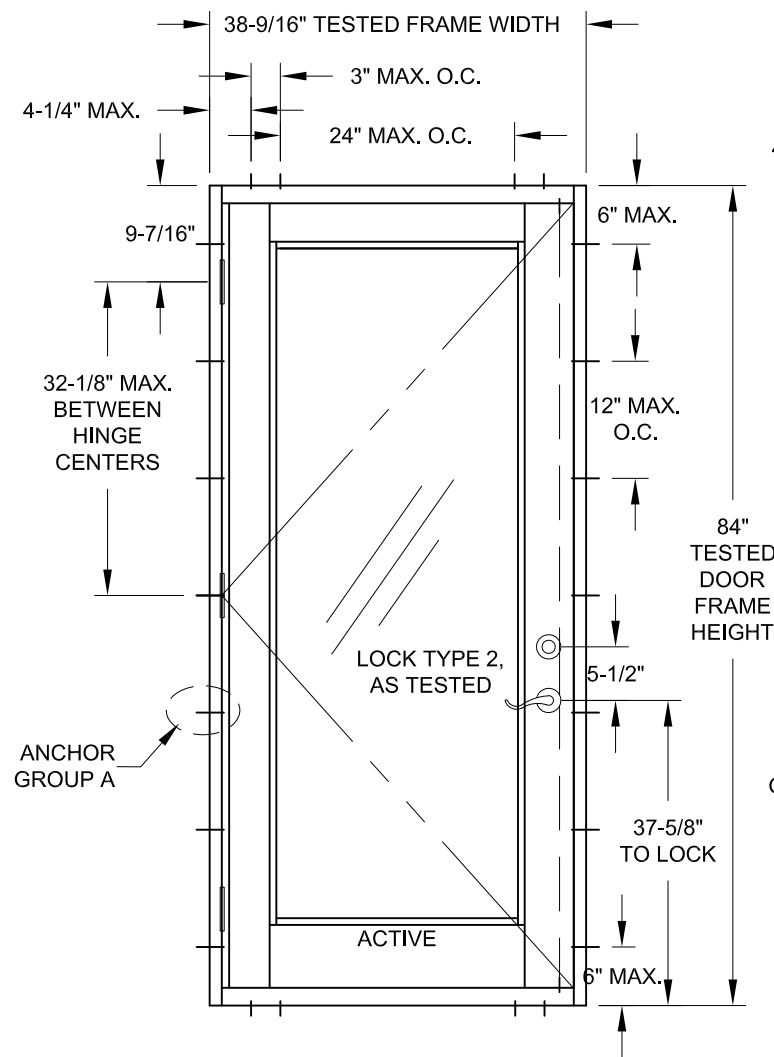




**"AS TESTED" TALL X DOOR
TYP. ANCHOR LOCATIONS**

TESTED DOOR INFORMATION (ABOVE DOOR ONLY):

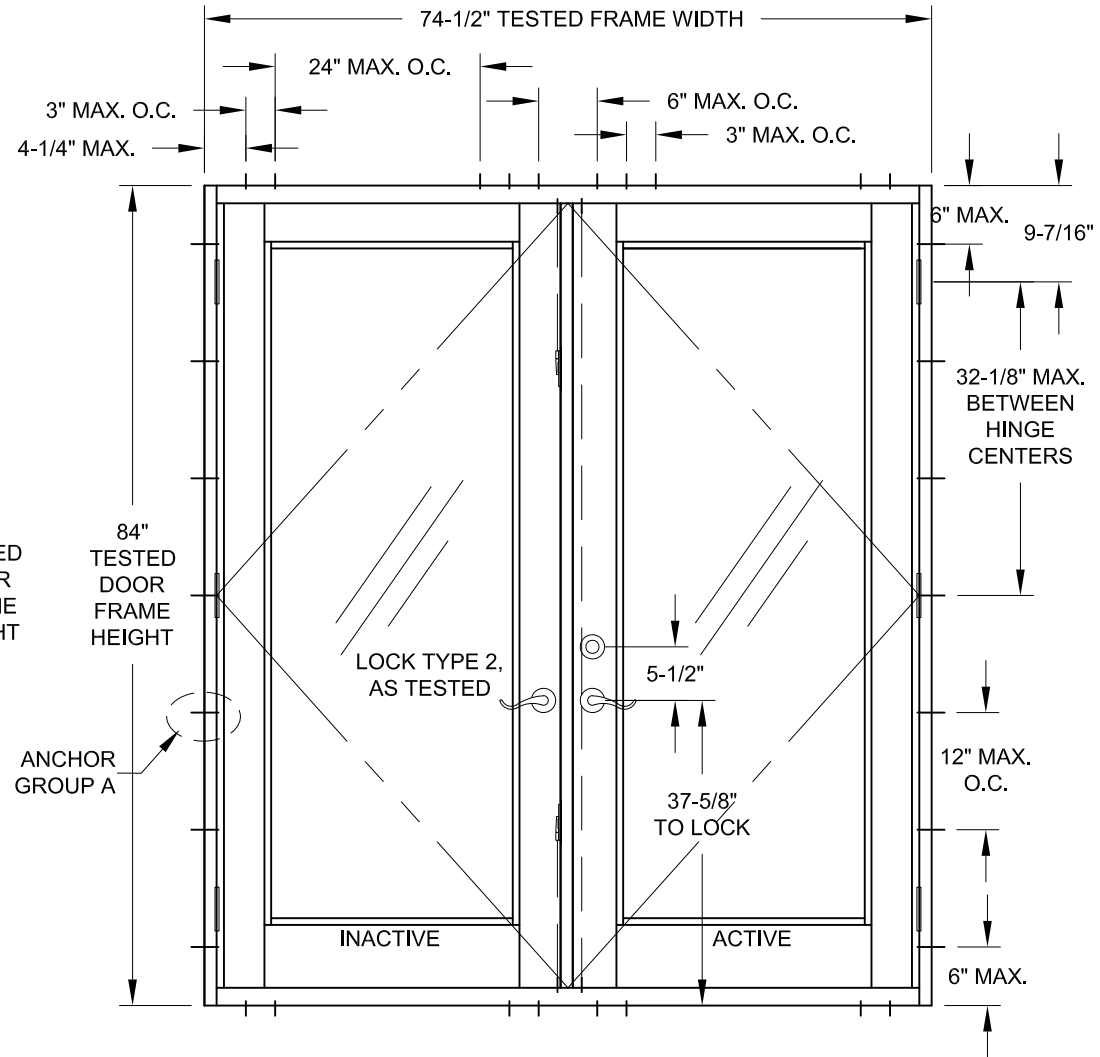
SIZE: 38-9/16" X 96-3/4" (X) W/O SIDELITES OR TRANSOM
ANCHOR GROUP : A
GLASS TYPE: 4
LOCK TYPE: 2, WITH BALDWIN SERIES 8200 DEADBOLT
MAX. (+) DESIGN PRESSURE: 66.0 PSF, LARGE MISSILE
MAX. (-) DESIGN PRESSURE: 124.0 PSF, LARGE MISSILE
OUTSWING USING STANDARD (P# 5) SILL



**"AS TESTED" X DOOR
TYP. ANCHOR LOCATIONS**

TESTED DOOR INFORMATION (ABOVE DOOR ONLY):

SIZE: 38-9/16" X 84" (X) W/O SIDELITES OR TRANSOM
ANCHOR GROUP: A
GLASS TYPES: 1 - 4
LOCK TYPE: 2, WITH BALDWIN SERIES 8200 DEADBOLT
MAX. (+) DESIGN PRESSURE: 100.0 PSF, LARGE MISSILE
MAX. (-) DESIGN PRESSURE: 132.0 PSF, LARGE MISSILE
OUTSWING USING STANDARD (P# 5) SILL



**"AS TESTED" XX DOOR
TYP. ANCHOR LOCATIONS**

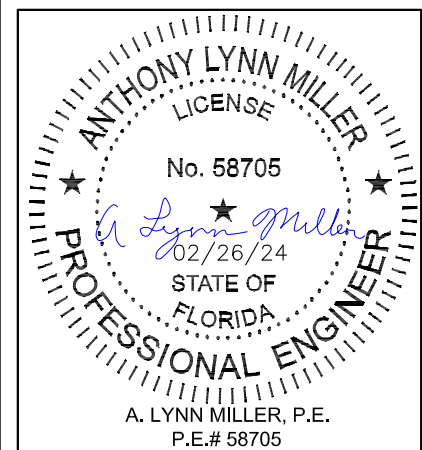
TESTED DOOR INFORMATION (ABOVE DOOR ONLY):

SIZE: 74-1/2" X 84" (XX) W/O SIDELITES OR TRANSOM
ANCHOR GROUP: A
GLASS TYPES: 1 - 4
LOCK TYPE: 2, WITH BALDWIN SERIES 8200 DEADBOLT
MAX. (+) DESIGN PRESSURE: 100.0 PSF, LARGE MISSILE
MAX. (-) DESIGN PRESSURE: 132.0 PSF, LARGE MISSILE
OUTSWING USING STANDARD (P# 5) SILL

NOTES:

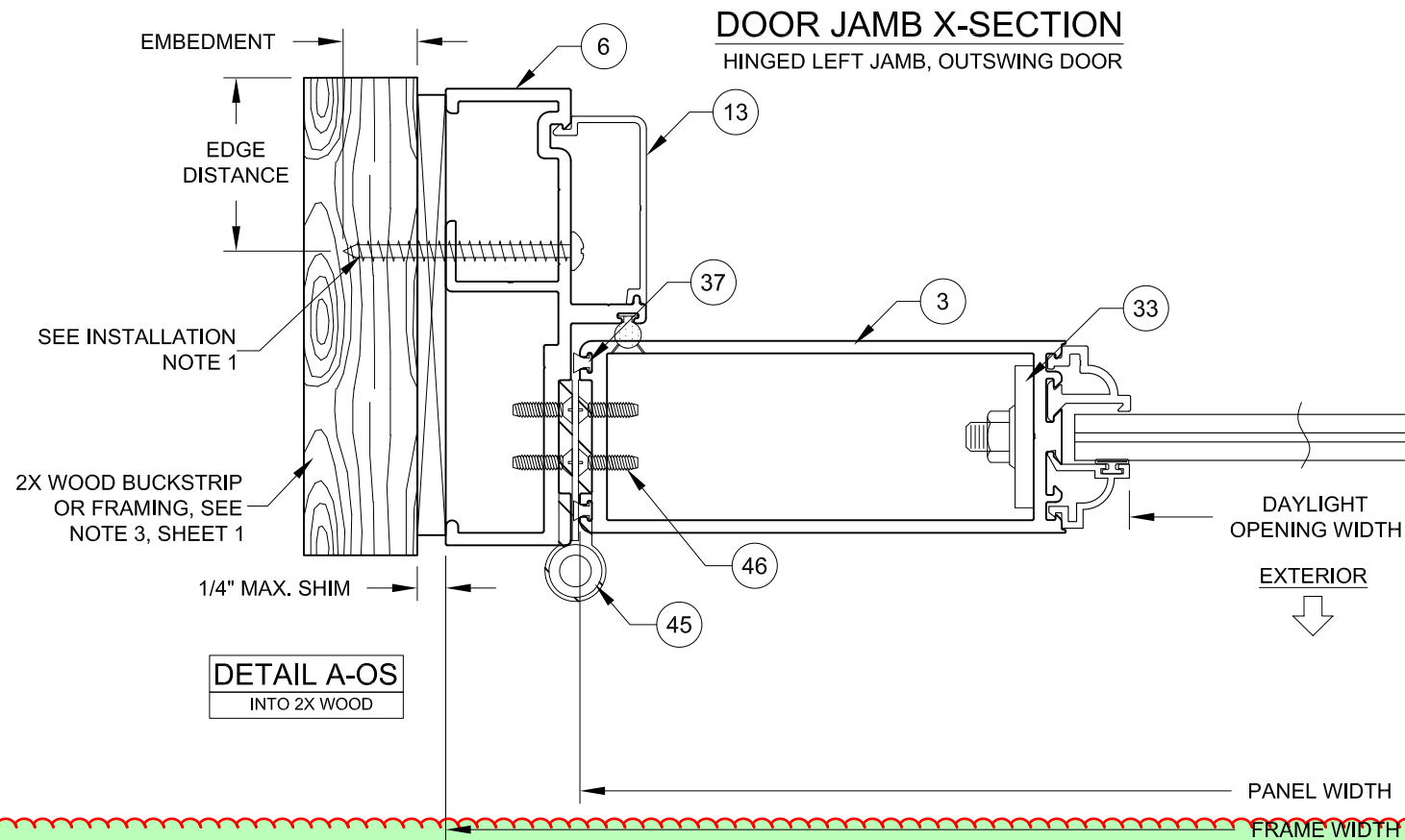
1) EXAMPLE CONFIGURATIONS SHOWN. SIMILAR CONFIGURATIONS
ALLOWED. DOORS MAY BE LEFT OR RIGHT-HANDED.

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104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		REGISTRATION #29296		12/12/22
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ALUMINUM FRENCH DOOR (LM)		JENS ROSOWSKI		Date
TESTED ANCHOR LOCATIONS		By		
FD450A		DWG No.		450FPA-LM-1
7 OF 21		Sheet		
Series		Desc.		Title

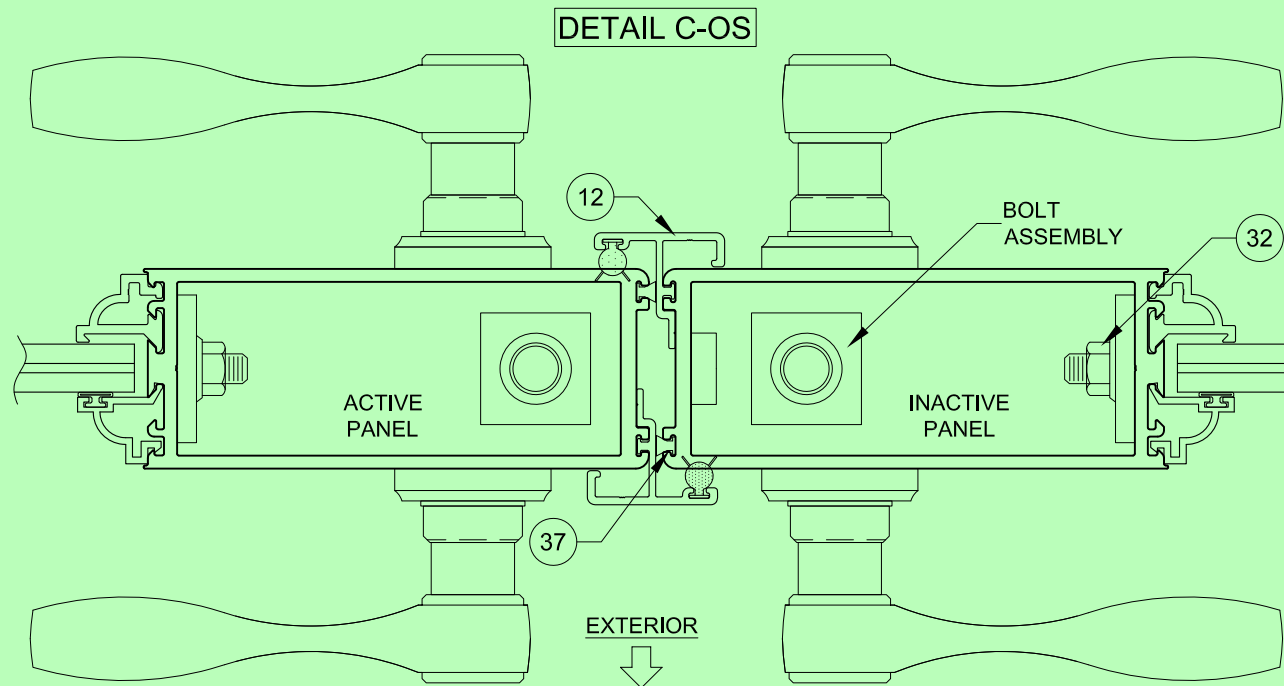
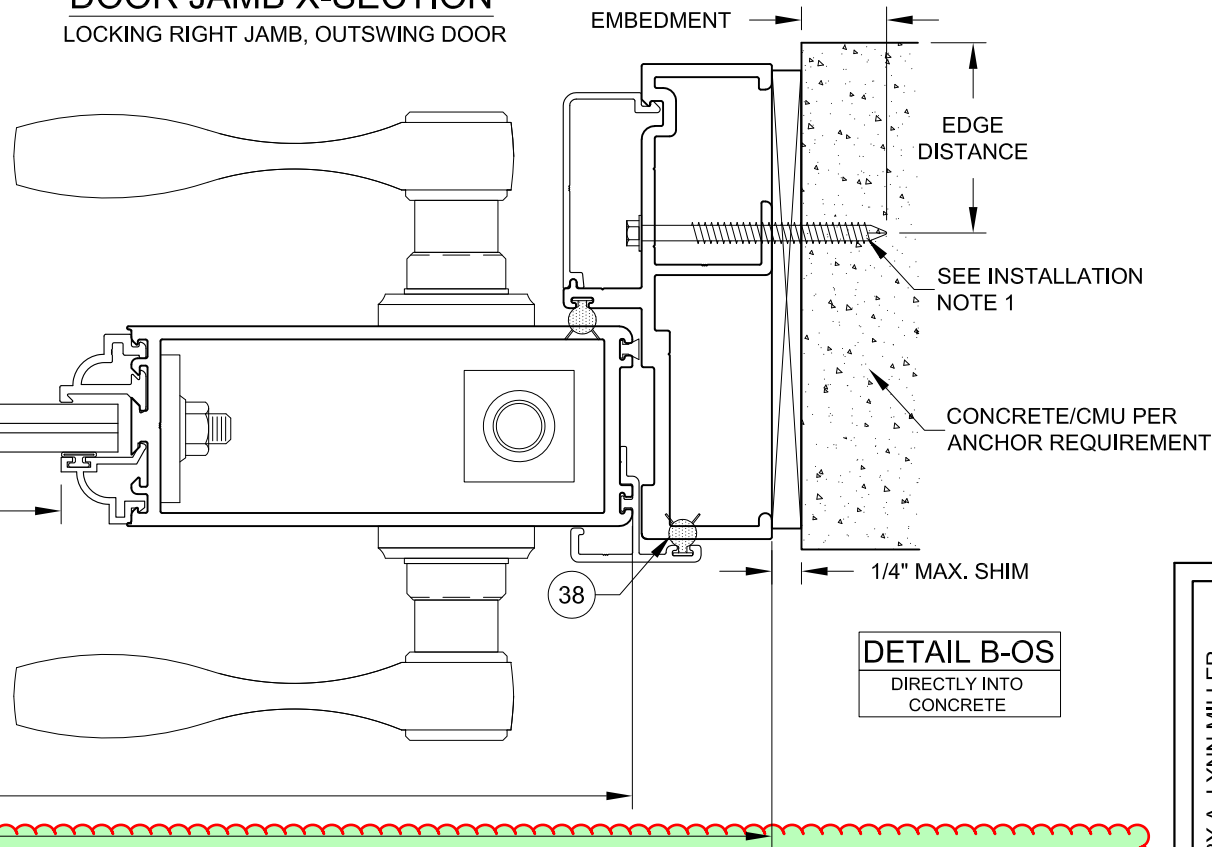


Rev.	02/22/24	D
Date		
NO CHANGES THIS SHEET.		

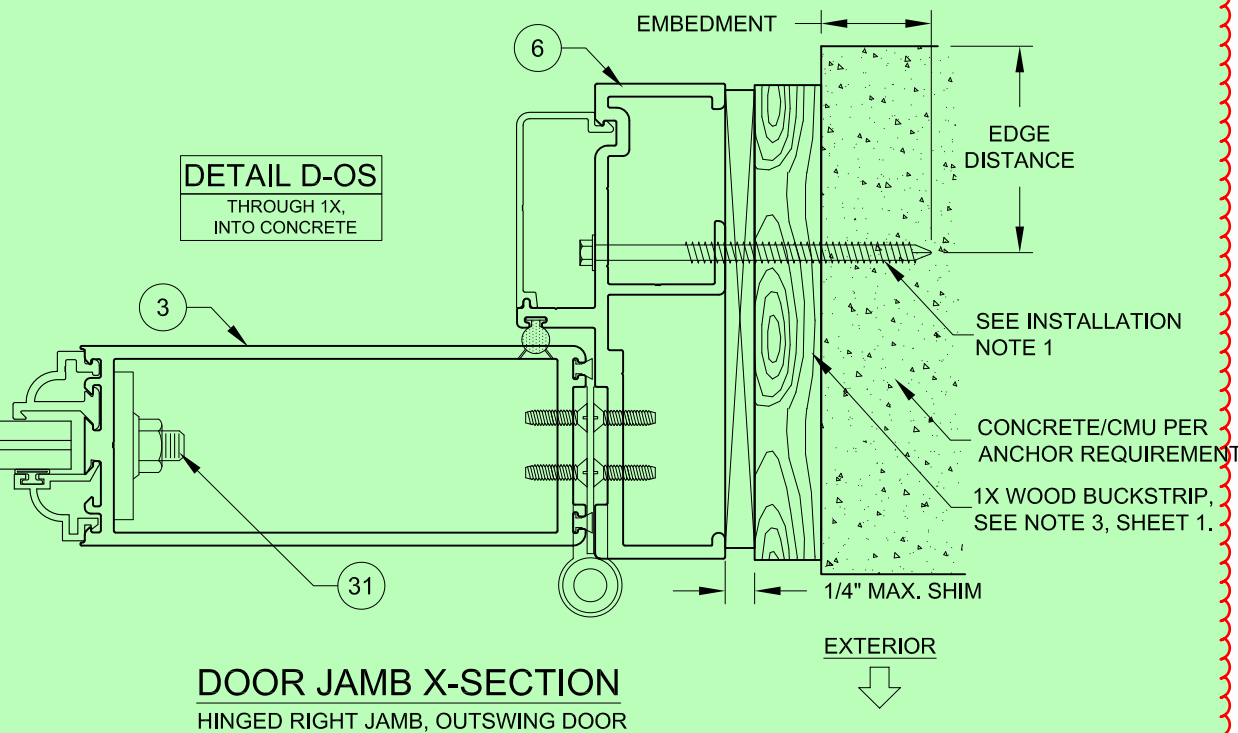
OUTSWING DETAILS



DOOR JAMB X-SECTION
LOCKING RIGHT JAMB, OUTSWING DOOR

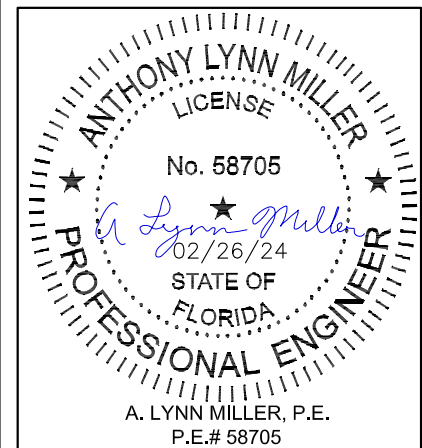


DETAIL D-OS
THROUGH 1X,
INTO CONCRETE



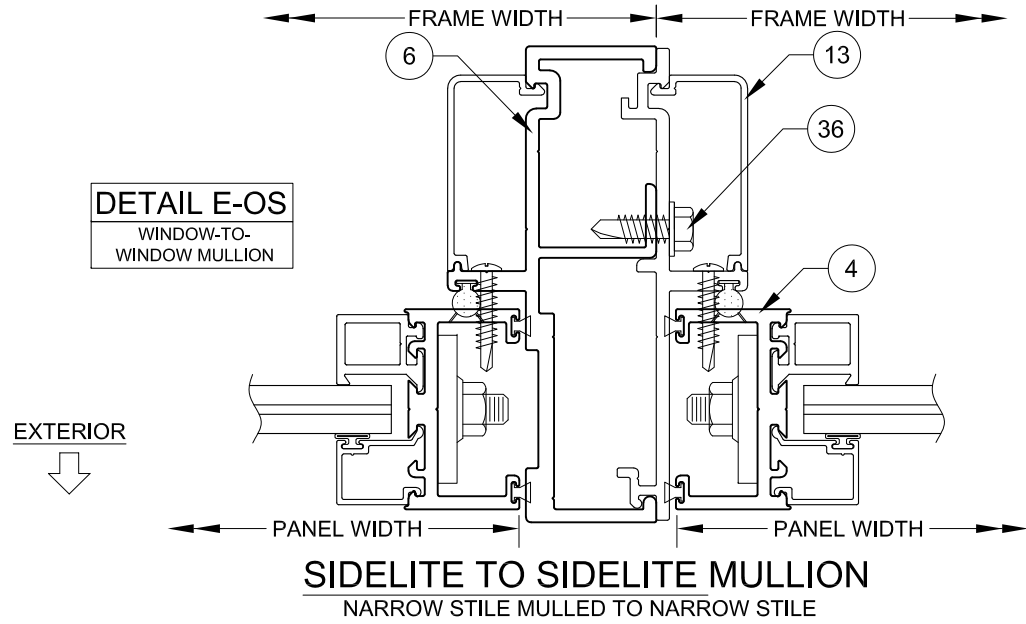
Rev.#	Date	Rev.
D	02/22/24	NO CHANGES THIS SHEET.

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FD450A		8 OF 21		DWG No.		JENS ROSOWSKI		12/12/22	
						Date			
Series		Desc.		Title		ALUMINUM FRENCH DOOR (LM)		By	
Sheet		X-SECTIONS (OUTSWING)		Drawn		JENS ROSOWSKI		Date	
450FPA-LM-1									

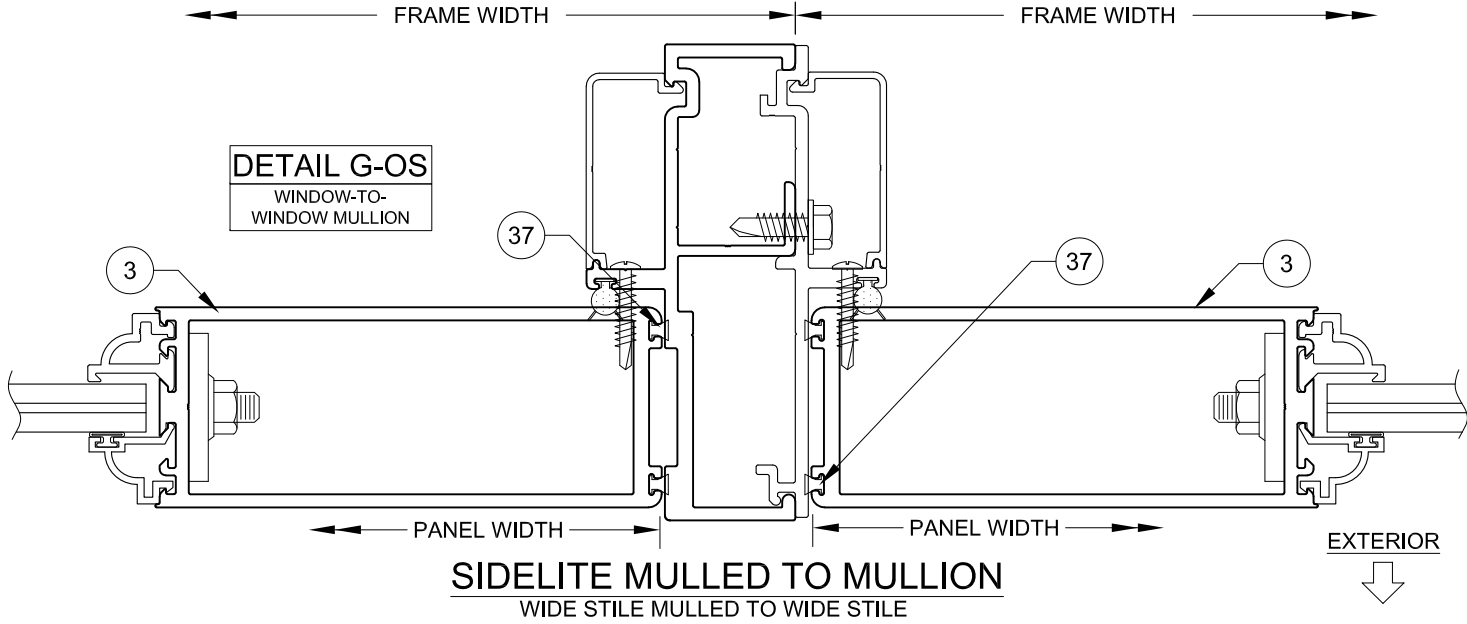


OUTSWING DETAILS

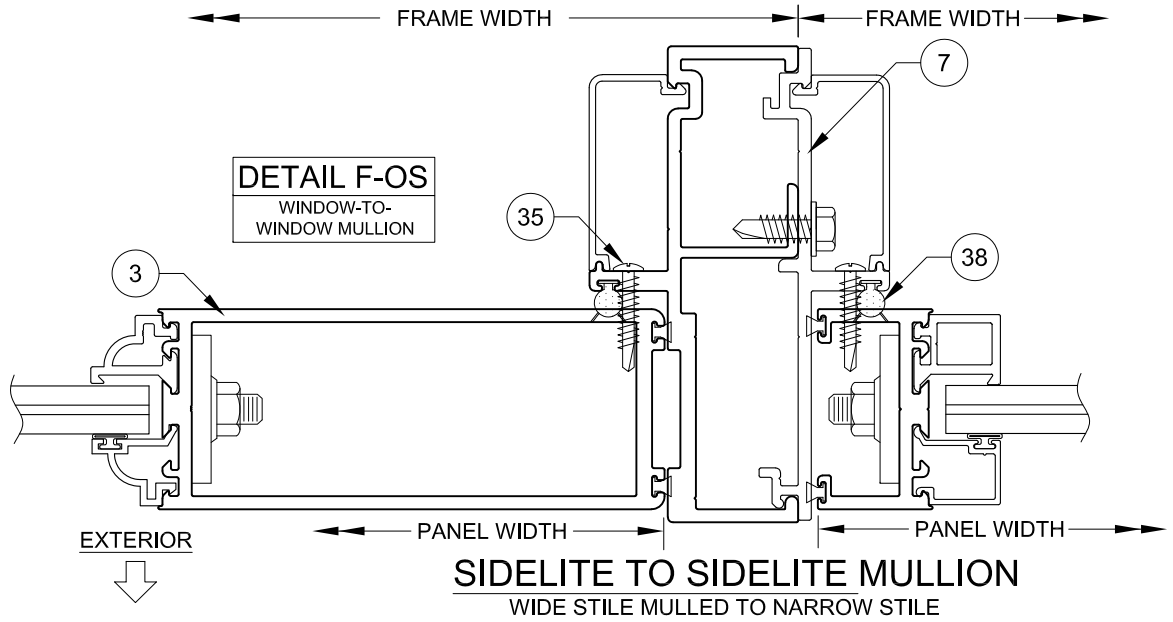
DETAIL E-OS
WINDOW-TO-
WINDOW MULLION



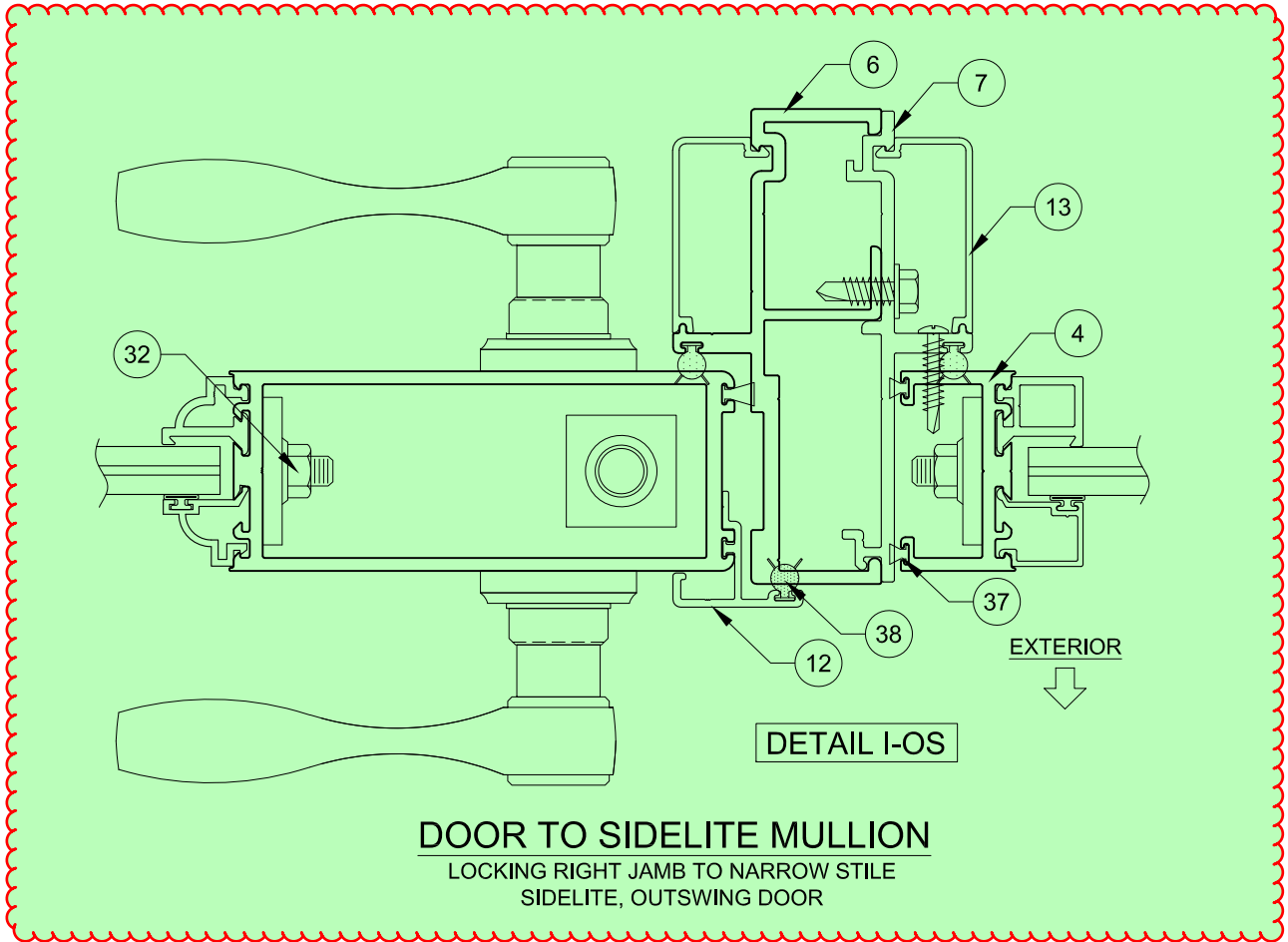
DETAIL G-OS
WINDOW-TO-
WINDOW MULLION



DETAIL F-OS
WINDOW-TO-
WINDOW MULLION



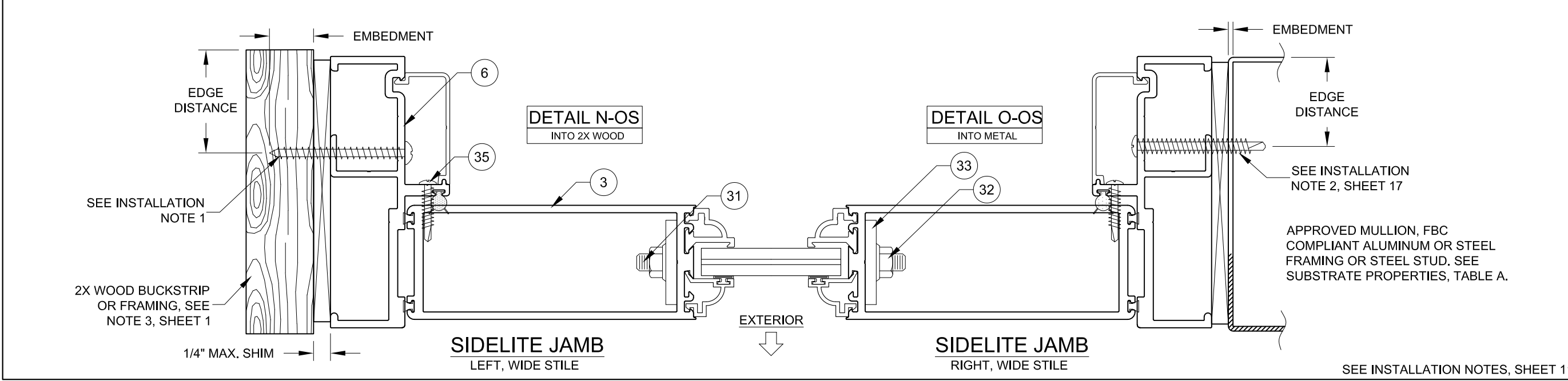
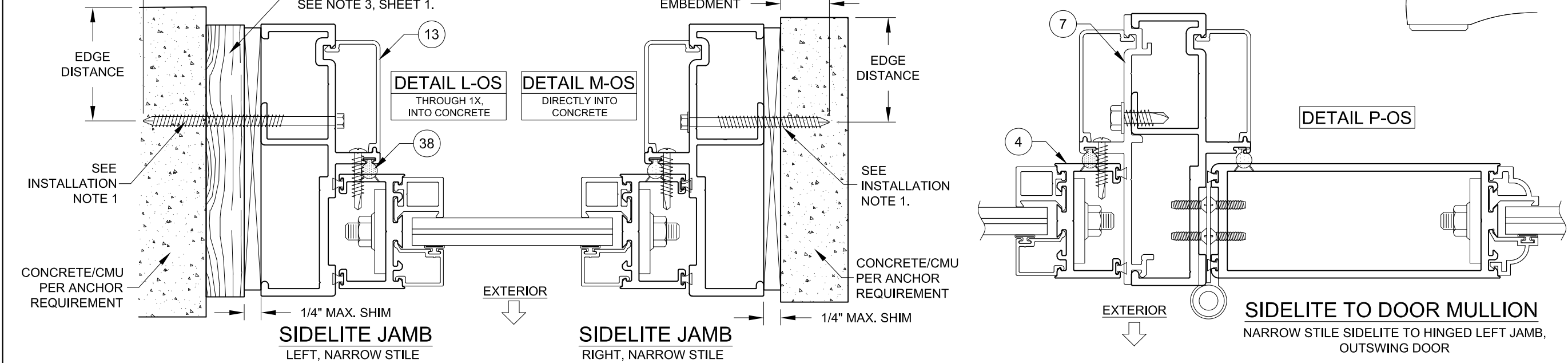
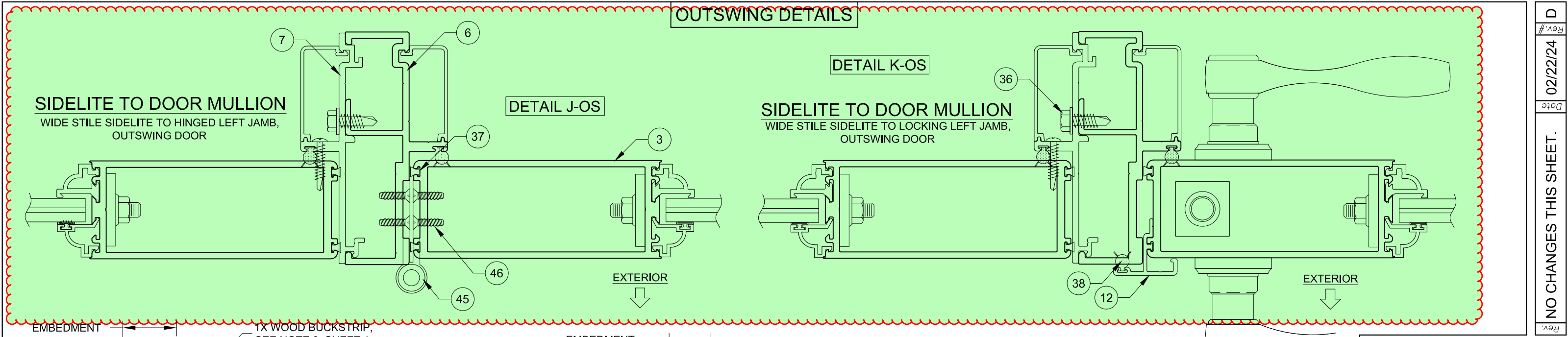
DETAIL I-OS



DOOR TO SIDELITE MULLION
LOCKING RIGHT JAMB TO NARROW STILE
SIDELITE, OUTSWING DOOR

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	104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432	ALUMINUM FRENCH DOOR (LM)	12/12/22	
	X-SECTIONS (OUTSWING)	JENS ROSOWSKI		
	FD450A	450FPA-LM-1		

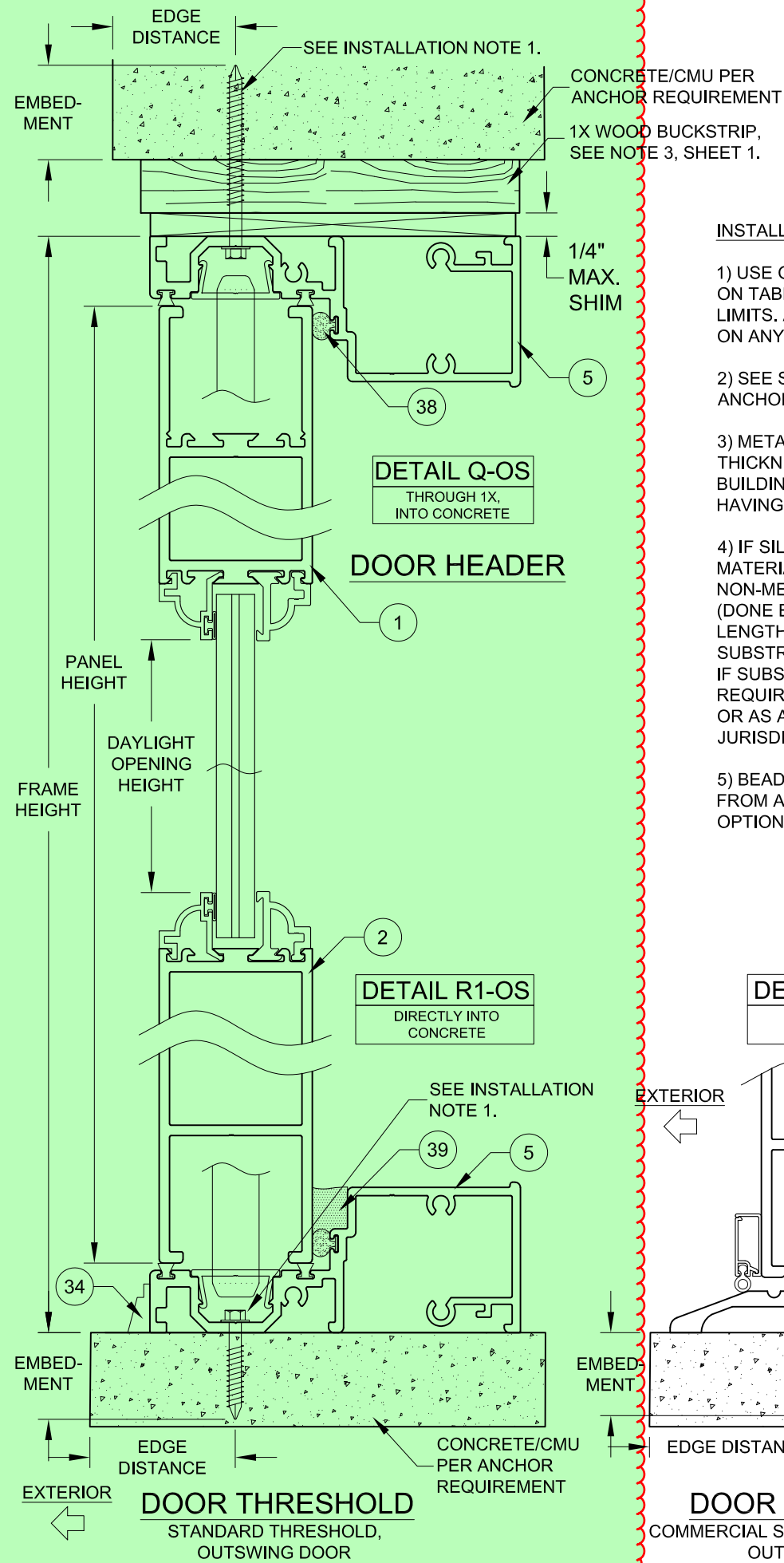
ANTHONY LYNN MILLER
LICENSE
No. 58705
02/26/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



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	104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432	ALUMINUM FRENCH DOOR (LM)	Date		
	X-SECTIONS (OUTSWING)	By	Rev.		
	FD450A	10 OF 21	DWG		
Series			Title		

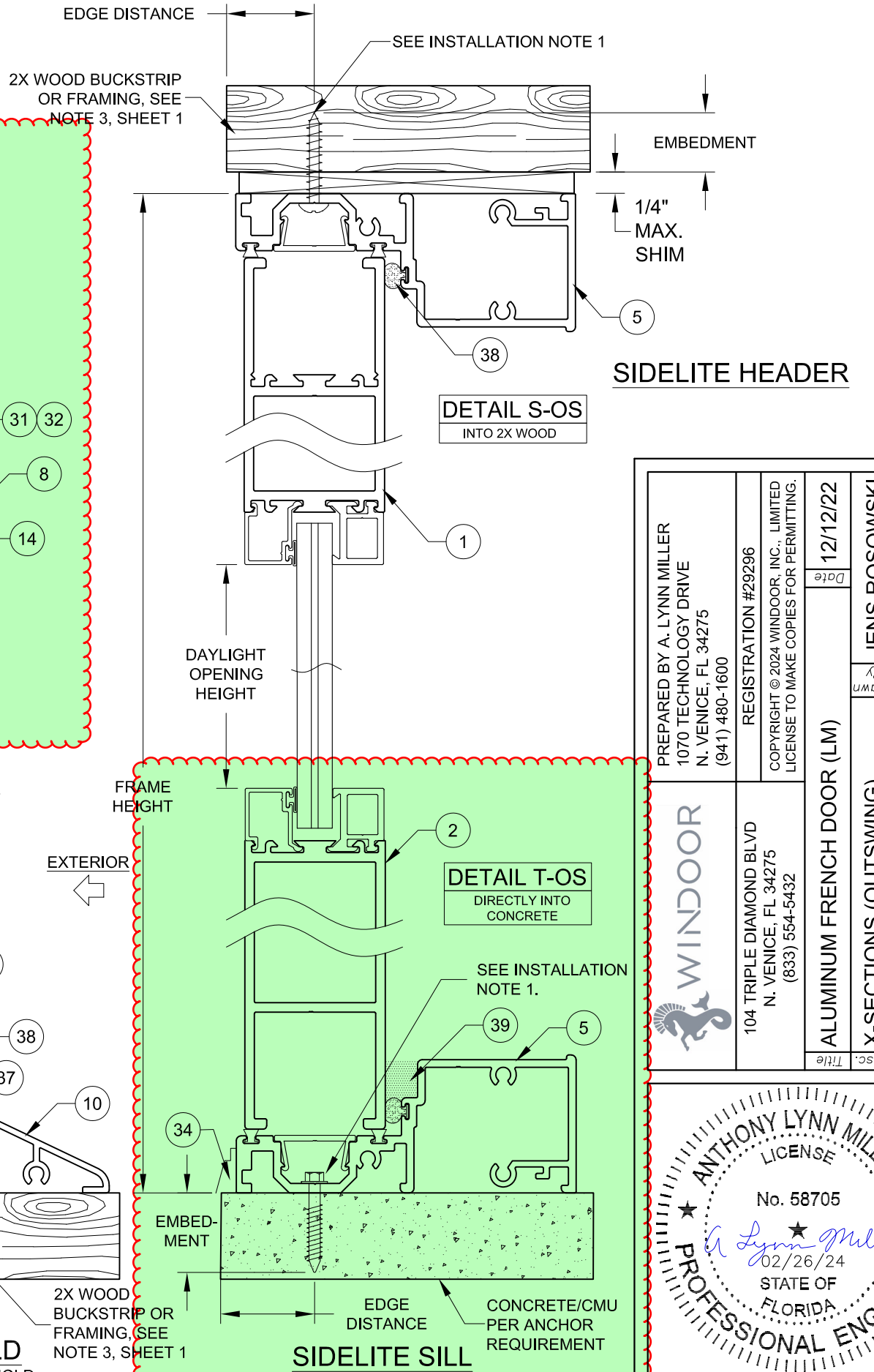
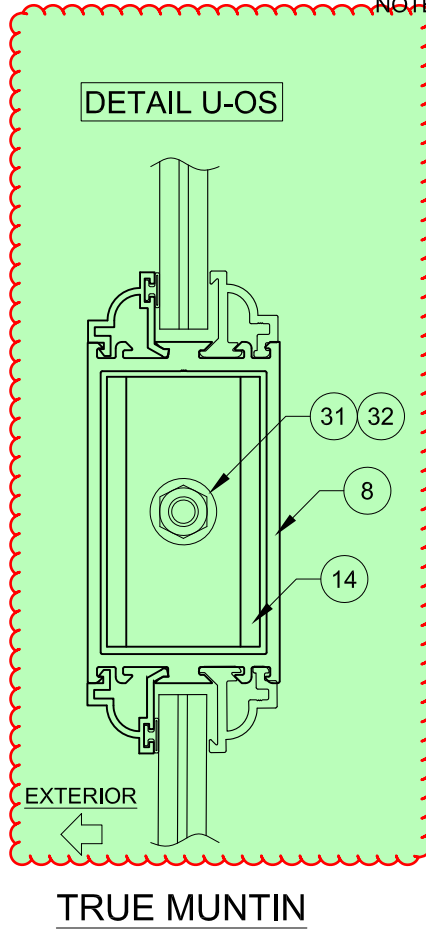
A. LYNN MILLER, P.E.
P.E.# 58705

OUTSWING DETAILS

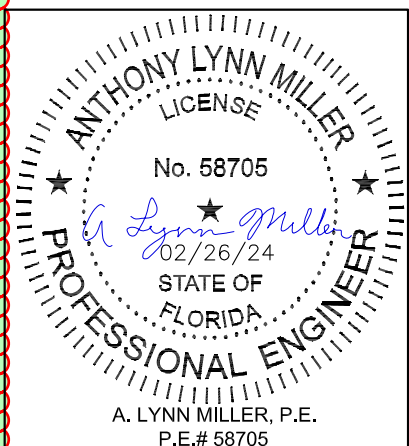


INSTALLATION NOTES:

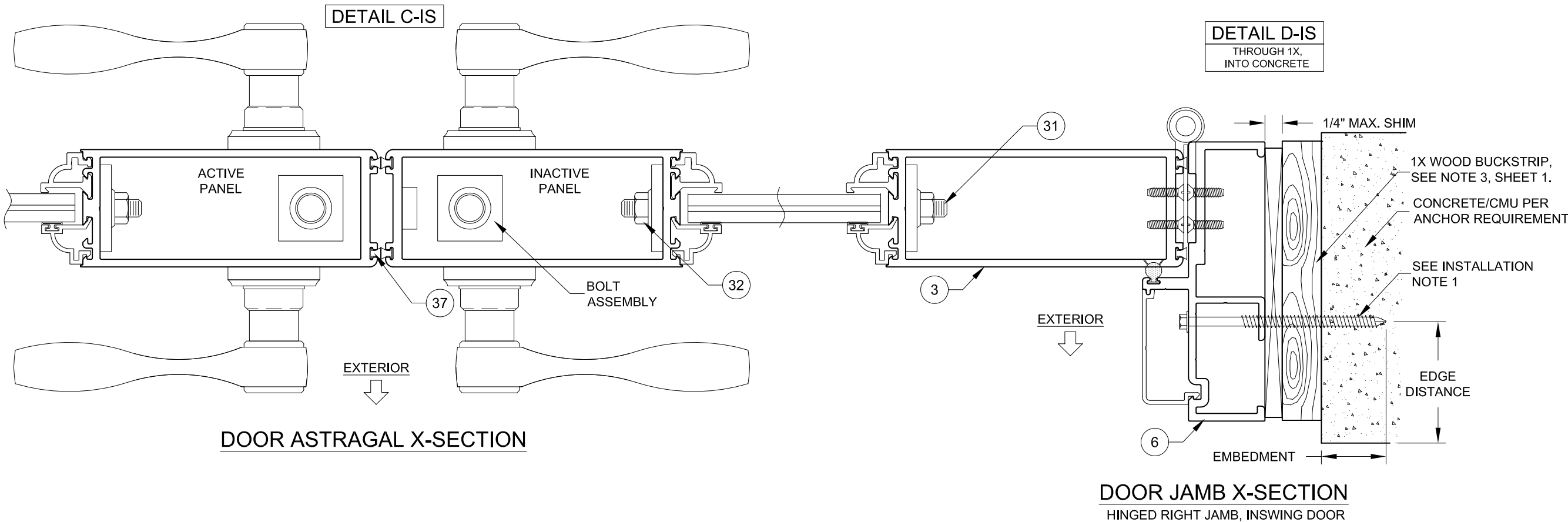
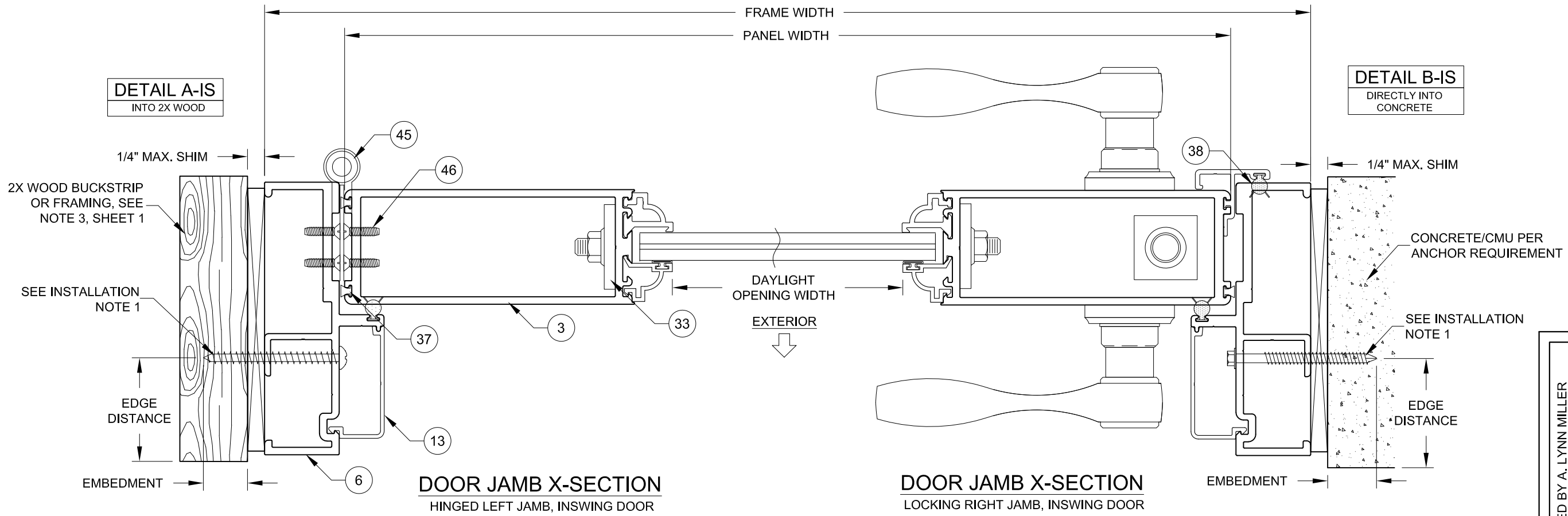
- 1) USE ONLY SUBSTRATE-APPROPRIATE ANCHORS LISTED ON TABLE A. FOLLOW EMBEDMENT AND EDGE DISTANCE LIMITS. ANY INSTALLATION OPTION SHOWN MAY BE USED ON ANY SIDE OF THE DOOR OR SIDELITE .
- 2) SEE SHEET 6 FOR ANCHOR LOCATIONS & SPACING, FOR ANCHOR QUANTITIES, SEE TABLES 3 & 5.
- 3) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
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- 5) BEADING AND GLASS TYPE SHOWN IN DETAILS MAY VARY FROM ACTUAL. SEE GLAZING DETAILS SHEET FOR FURTHER OPTIONS.



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ALUMINUM FRENCH DOOR (LM)		Date	12/12/22
X-SECTIONS (OUTSWING)		Drawn By	JENS ROSOWSKI
FD450A	11 OF 21	DWG No.	450FPA-LM-1

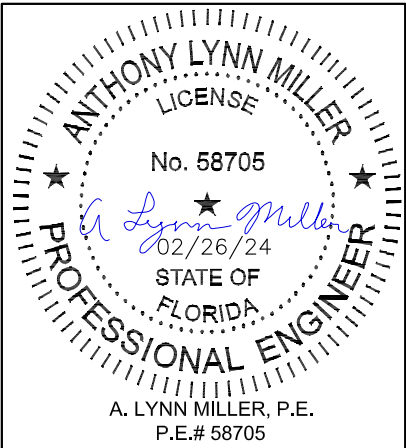


INSWING DETAILS



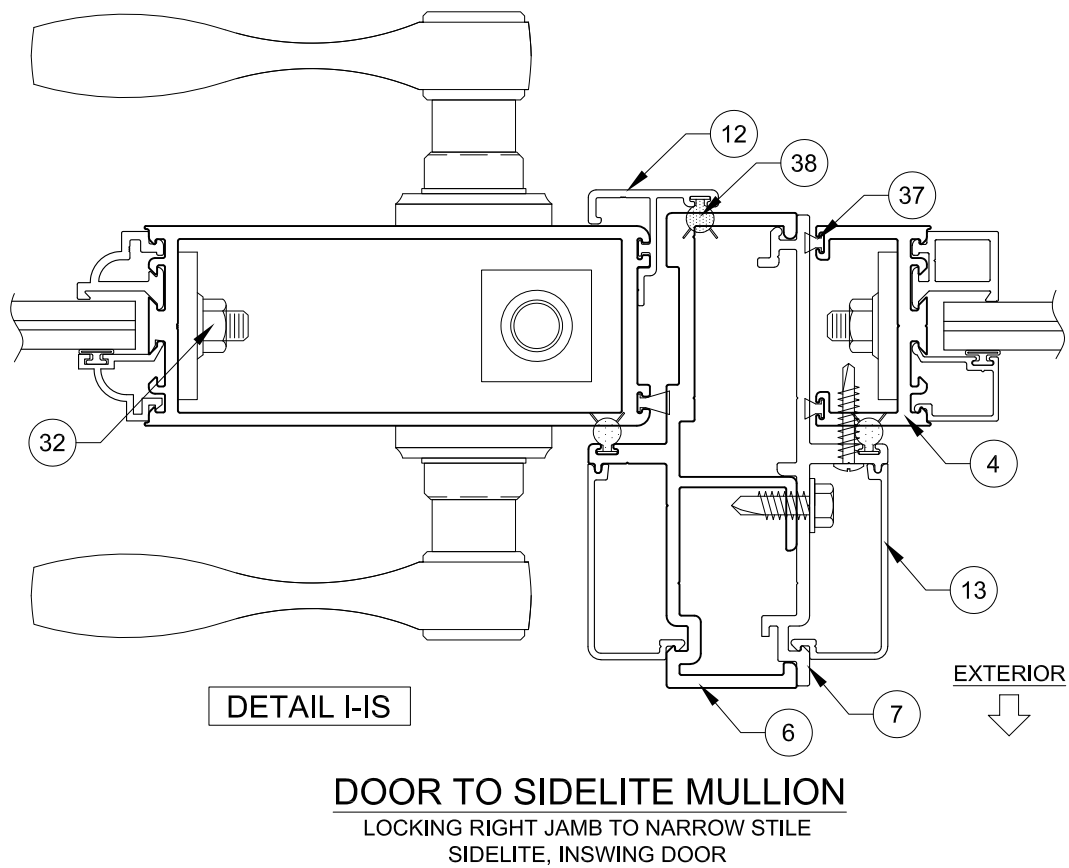
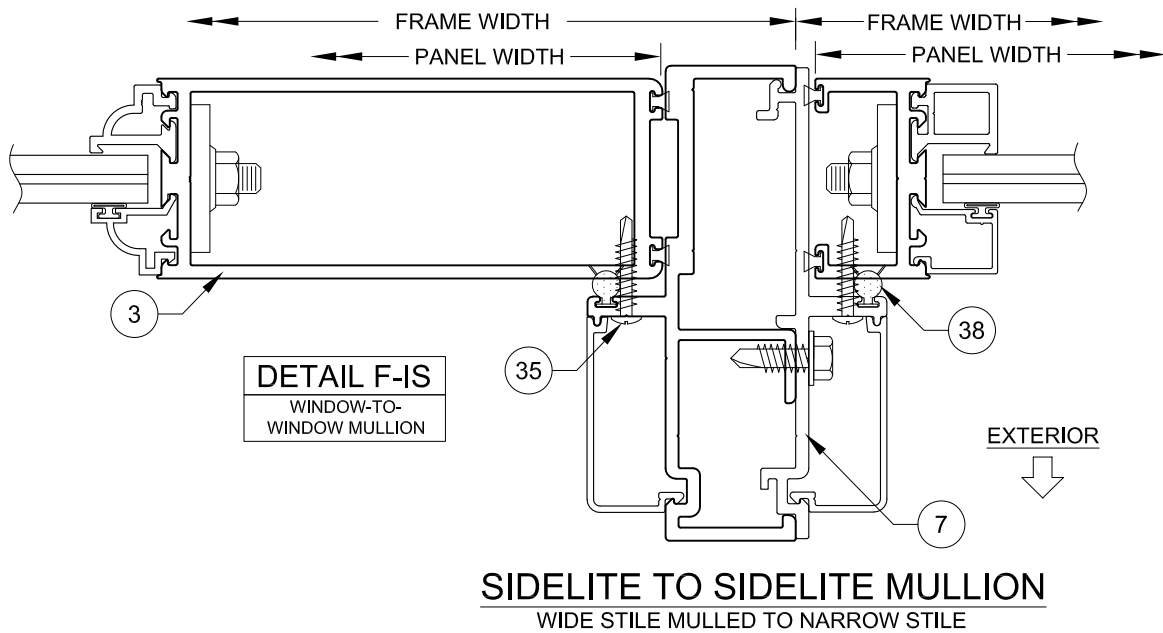
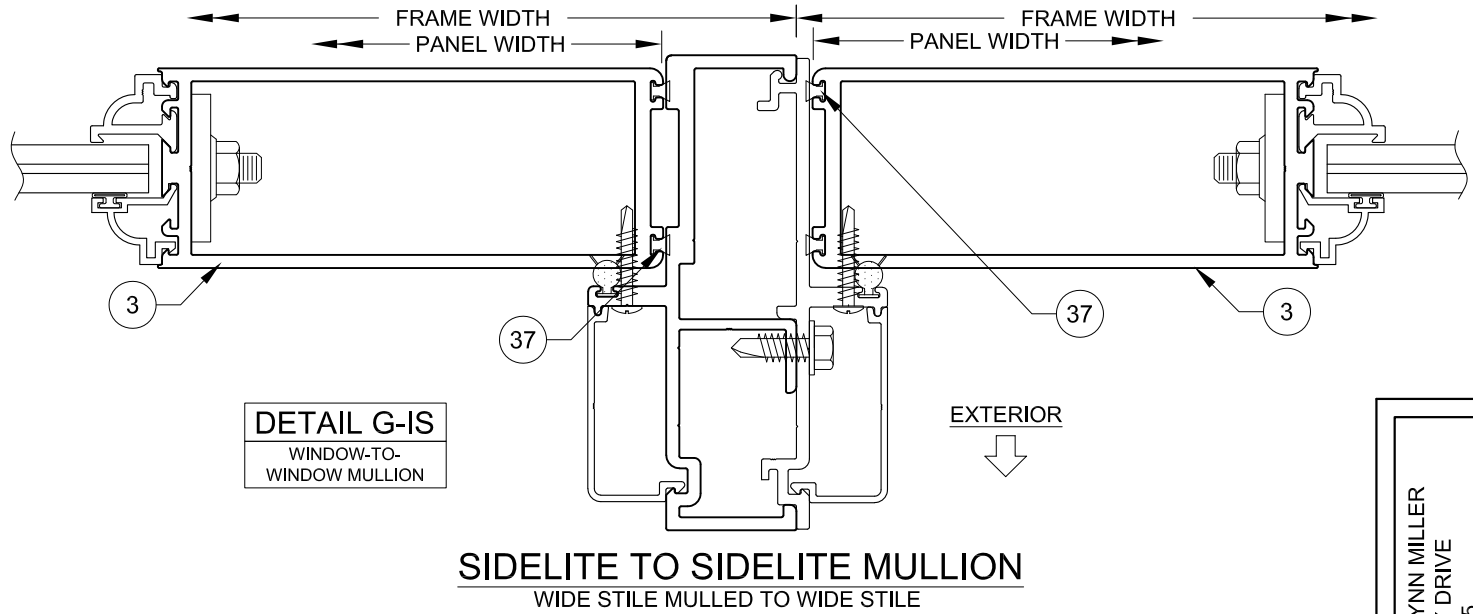
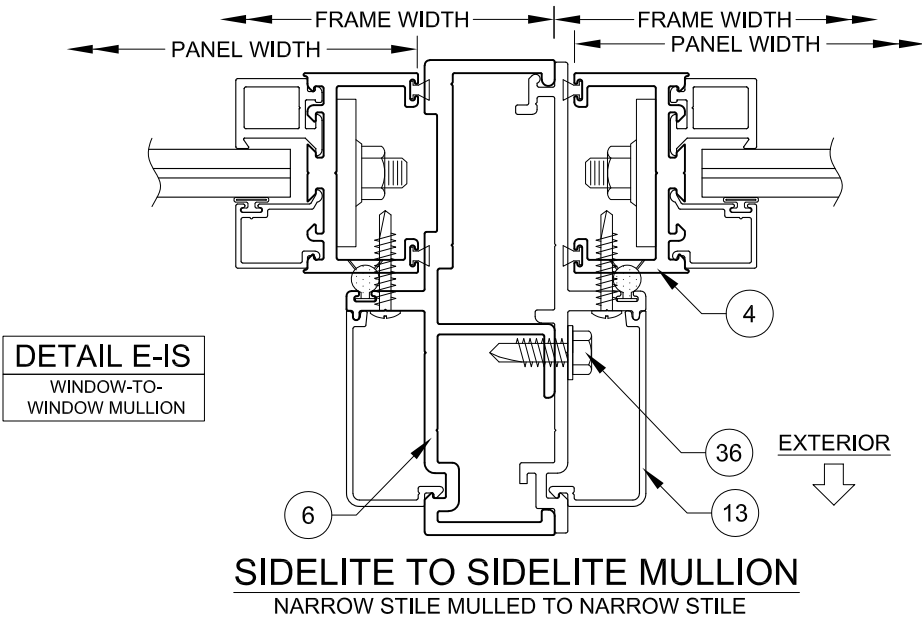
SEE INSTALLATION NOTES, SHEET 15.

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	104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		ALUMINUM FRENCH DOOR (LM)		X-SECTIONS (INSWING)		12 OF 21		FD450A	



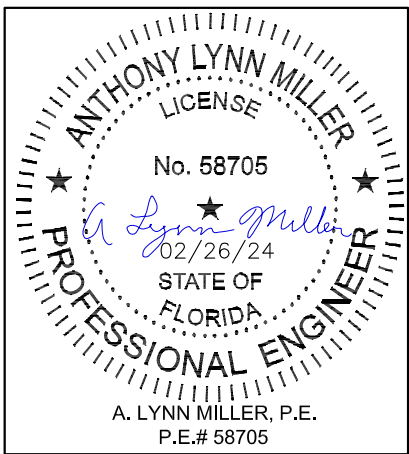
Rev. #	02/22/24	D
Date		
Rev.	NO CHANGES THIS SHEET.	

INSWING DETAILS

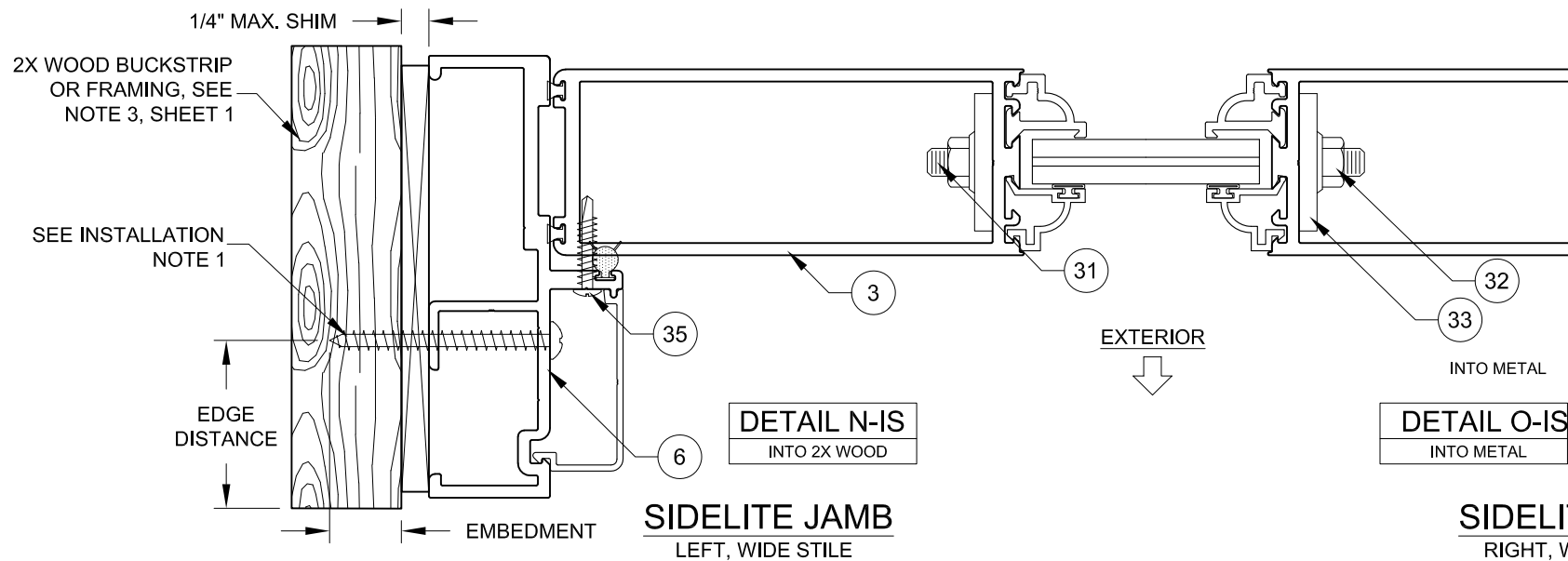
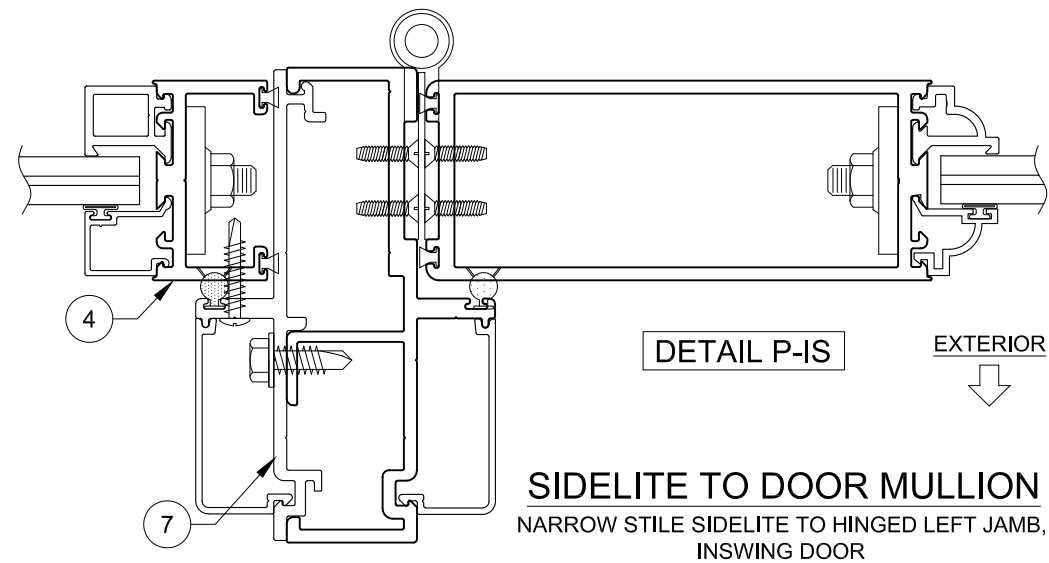
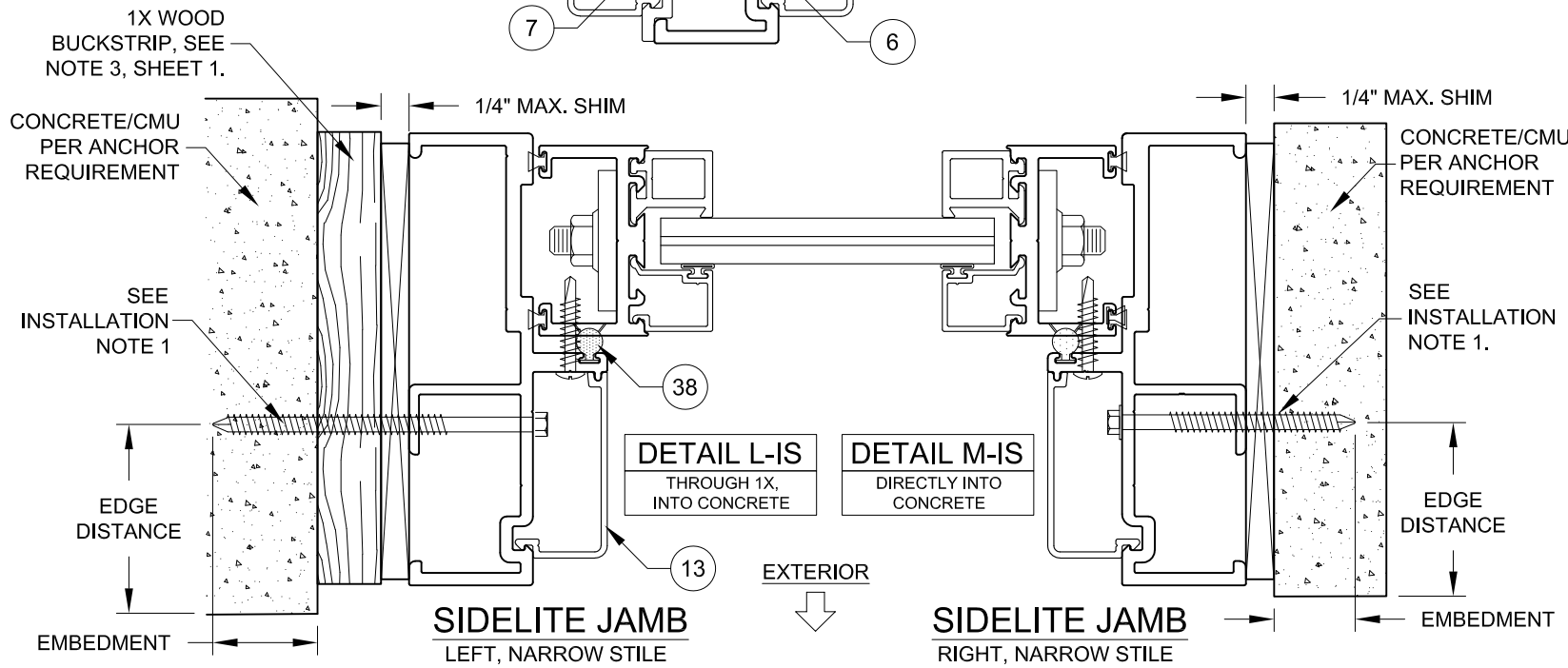
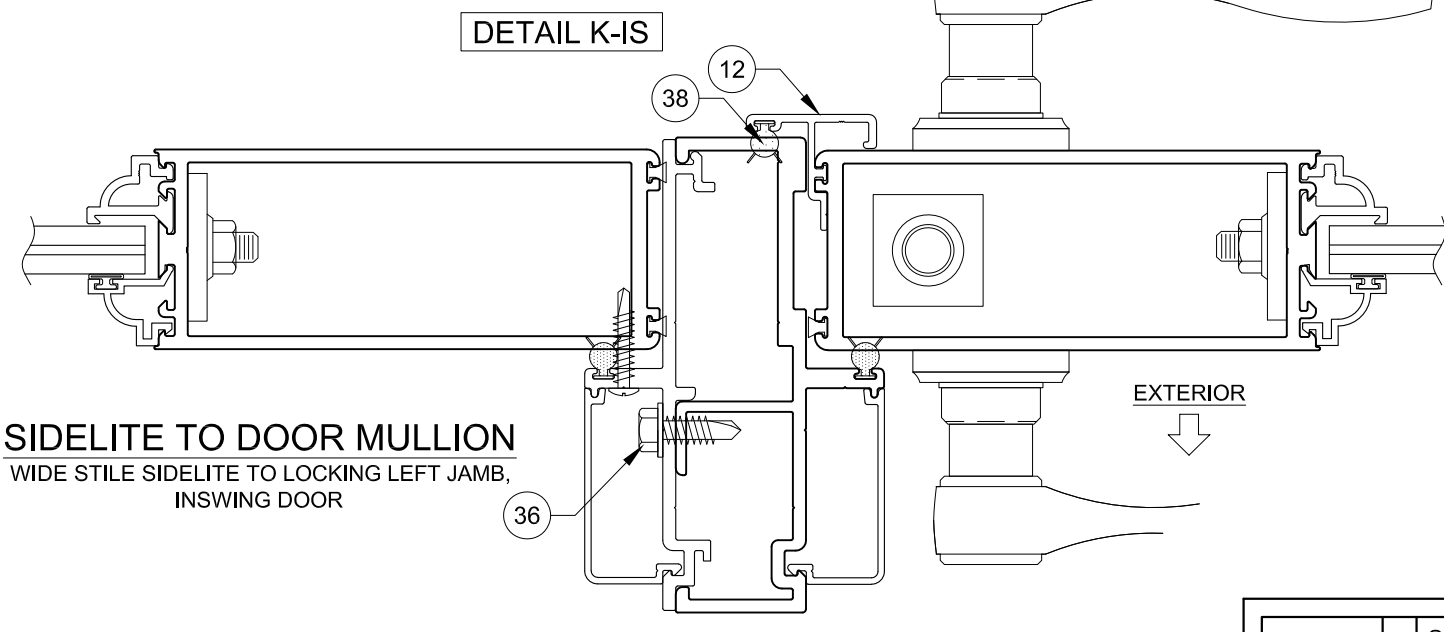
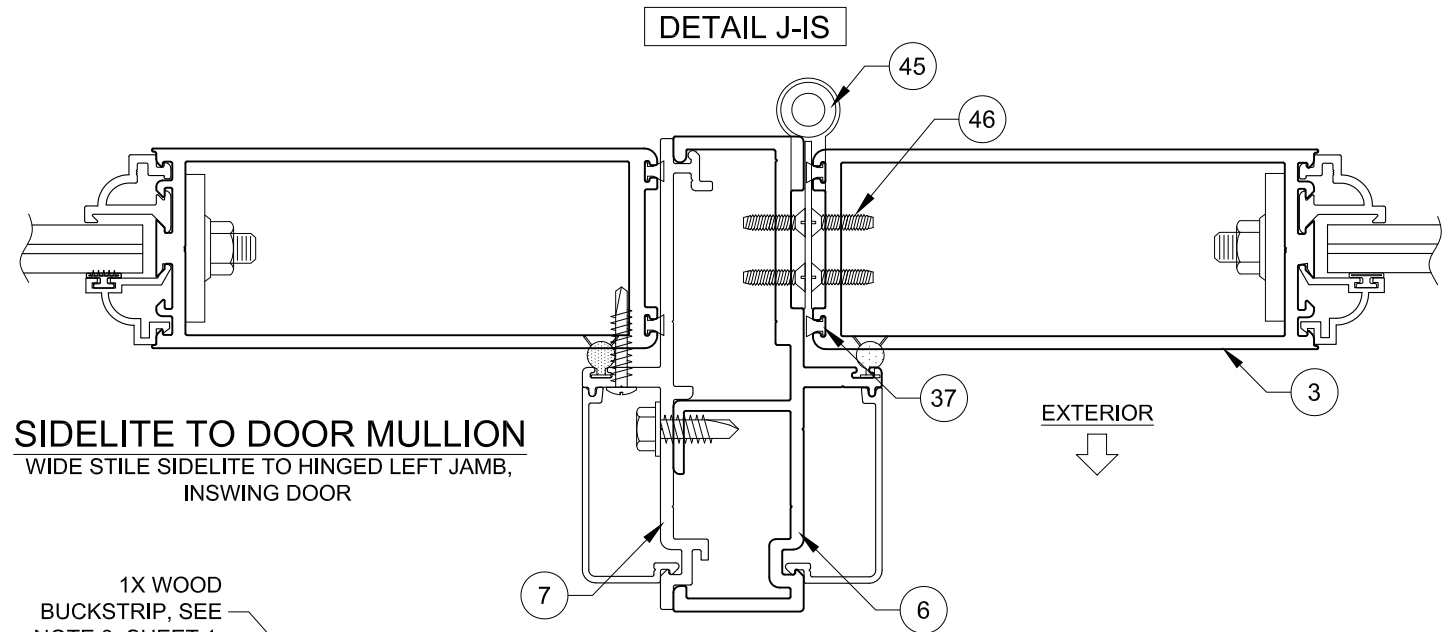


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ALUMINUM FRENCH DOOR (LM)		REGISTRATION #29296		12/12/22	
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Title		Desc.		X-SECTIONS (INSWING)	
FD450A		Sheet		13 OF 21	
Series		Desc.		JENS ROSOWSKI	
				By	
				Drawn	
				No.	
				DWG	
				450FPA-LM-1	



INSWING DETAILS

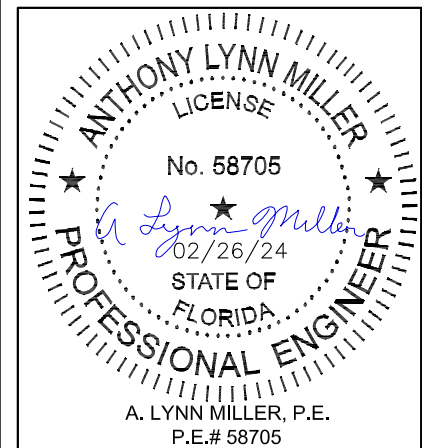


APPROVED MULLION, FBC
COMPLIANT ALUMINUM OR STEEL
FRAMING OR STEEL STUD. SEE
SUBSTRATE PROPERTIES, TABLE A.

SEE INSTALLATION
NOTE 2, SHEET 17

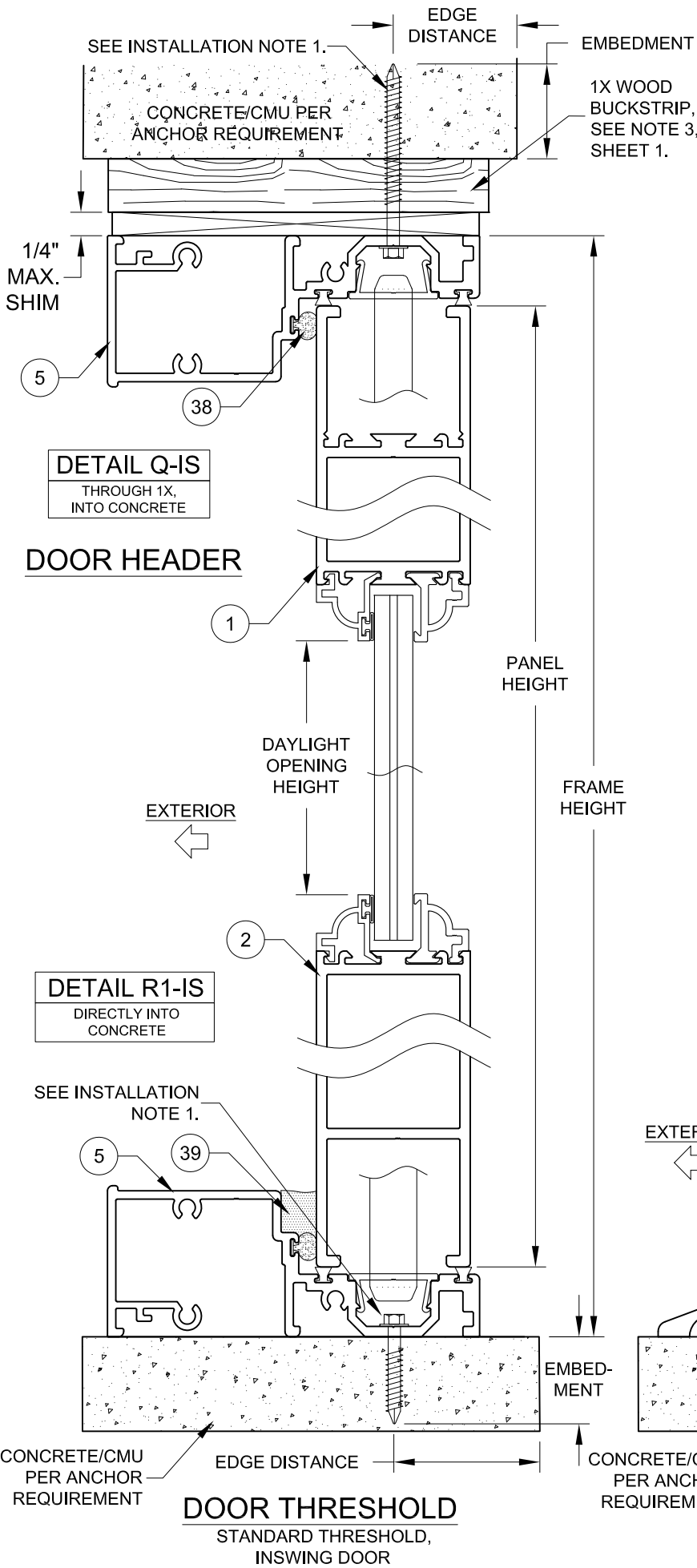
SEE INSTALLATION NOTES, SHEET 15.

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104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		ALUMINUM FRENCH DOOR (LM)		Date			
X-SECTIONS (INSWING)		JENS ROSOWSKI		By			
FD450A		14 OF 21		DWG No.		450FPA-LM-1	
Series		Desc.		Title			



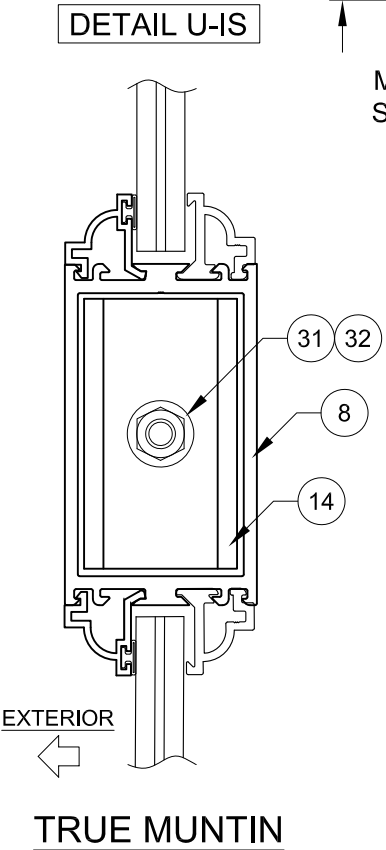
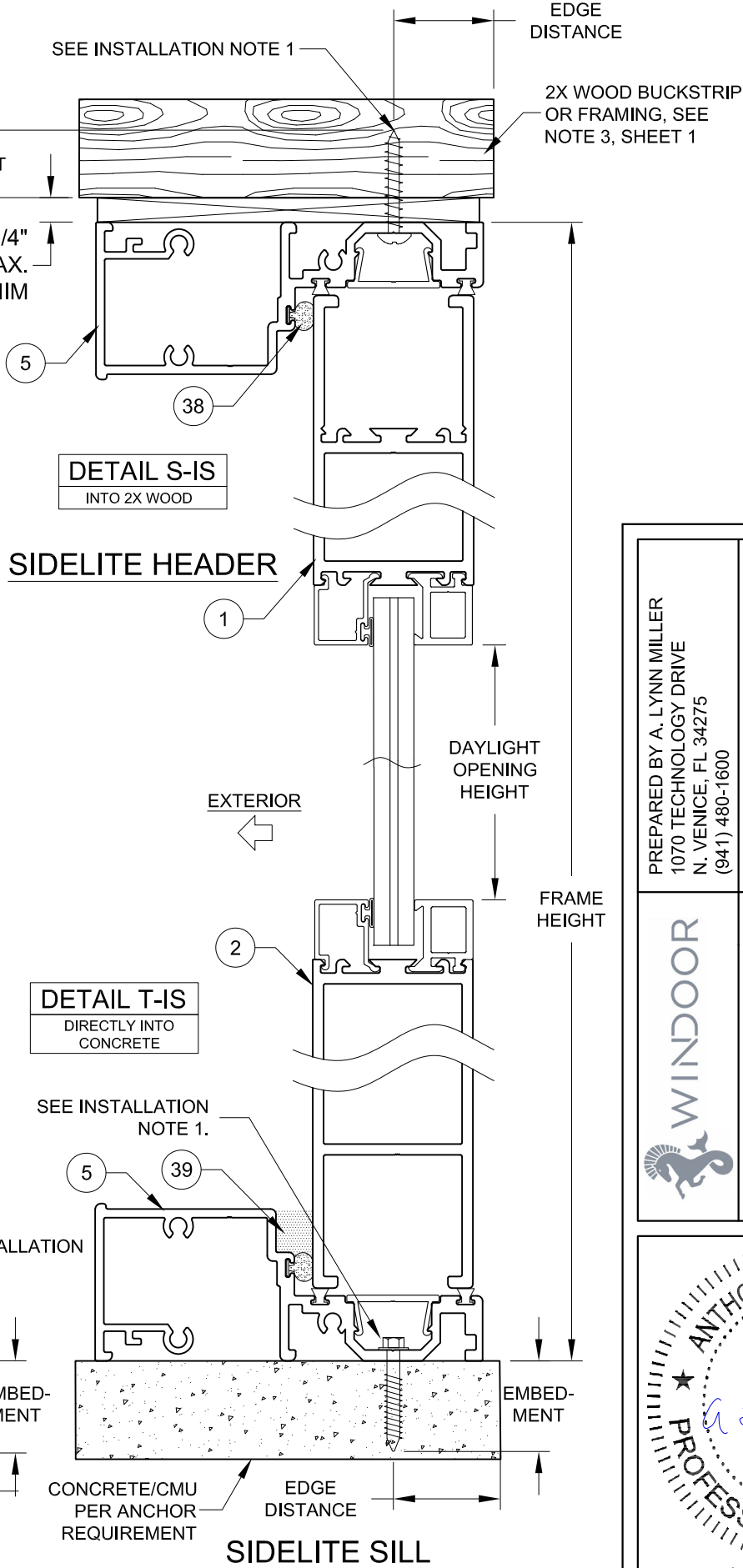
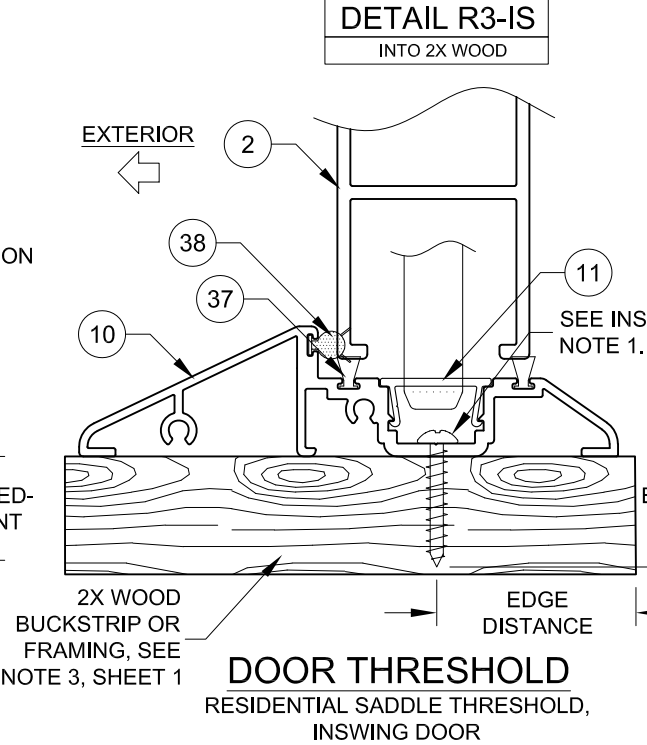
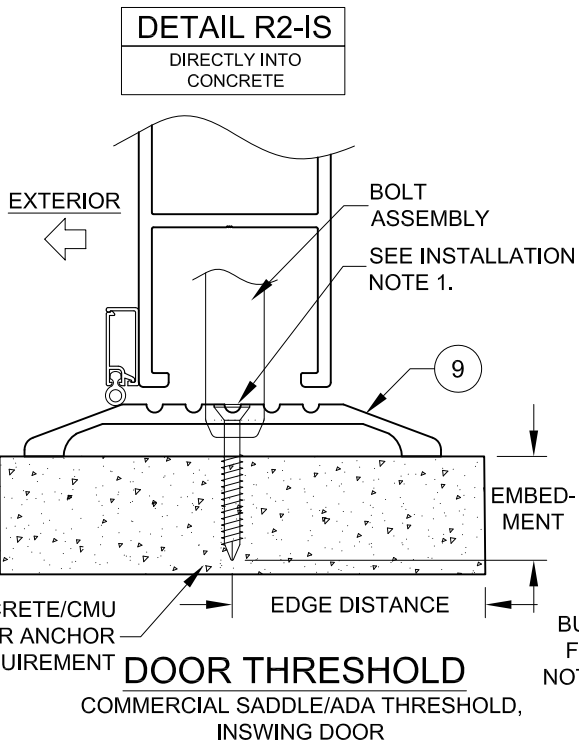
Rev.	02/22/24	D
Date	02/22/24	
NO CHANGES THIS SHEET.		

INSWING DETAILS

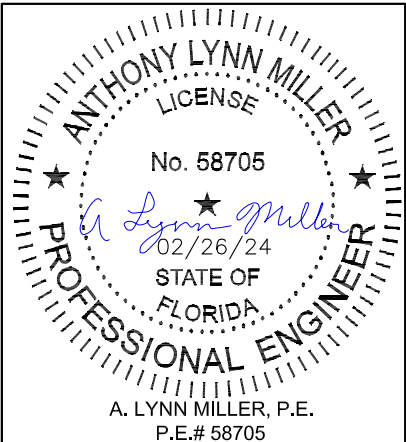


INSTALLATION NOTES:

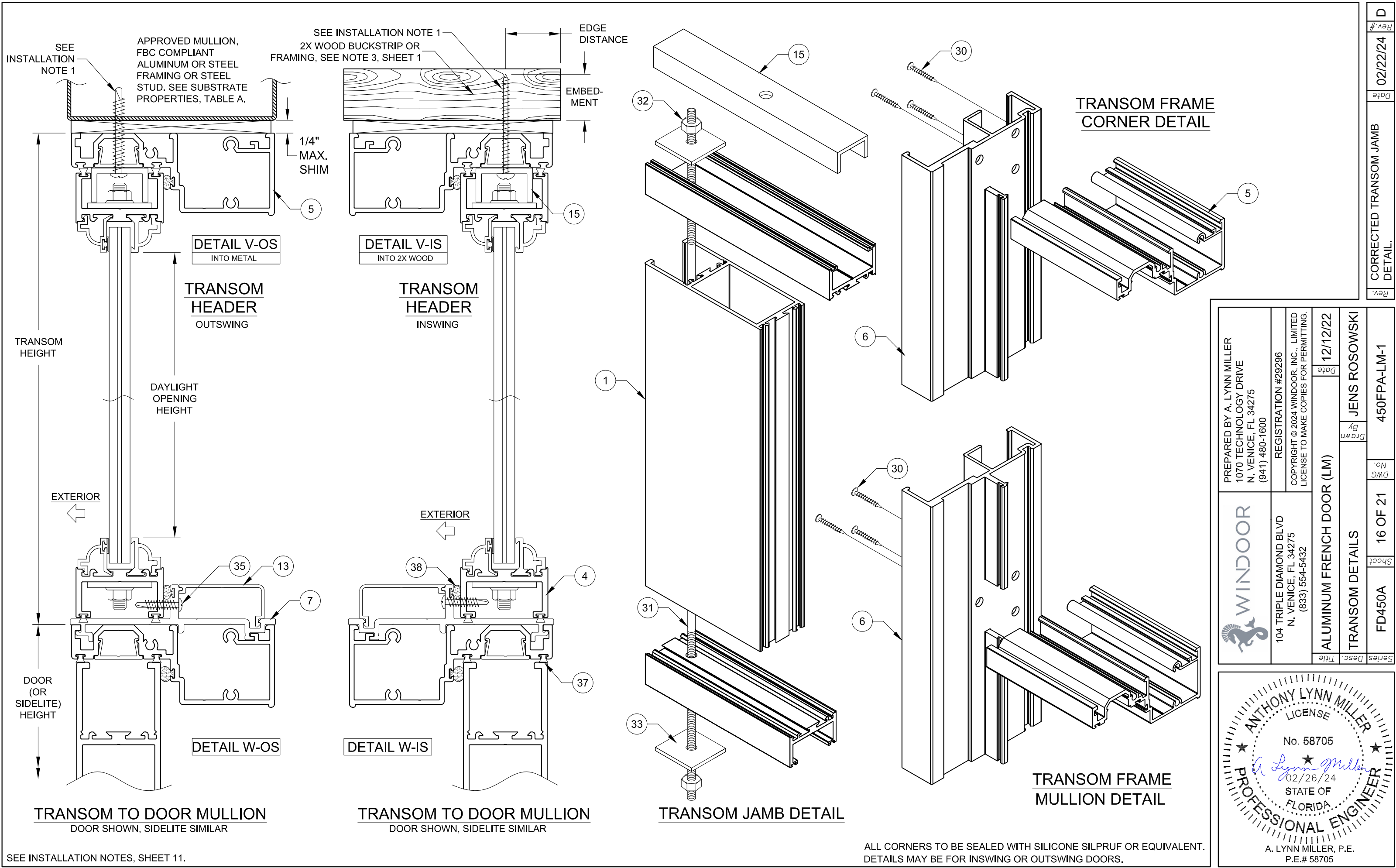
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 WINDOOR		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600			
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ALUMINUM FRENCH DOOR (LM)		Date		JENS ROSOWSKI	
X-SECTIONS (INSWING)		Drawn By			
FD450A		DWG No.			
Sheet		15 OF 21			
Series		Desc.		450FPA-LM-1	

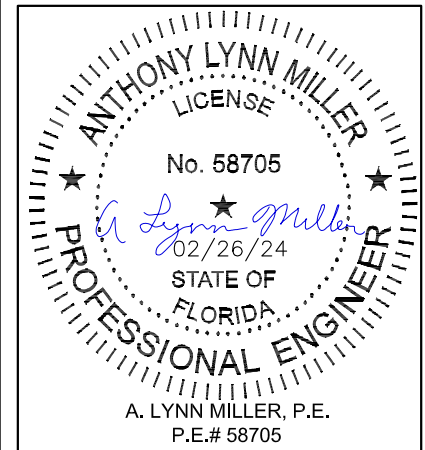


D	02/22/24	Rev. #	Date	CORRECTED SIDELITE PROFILES

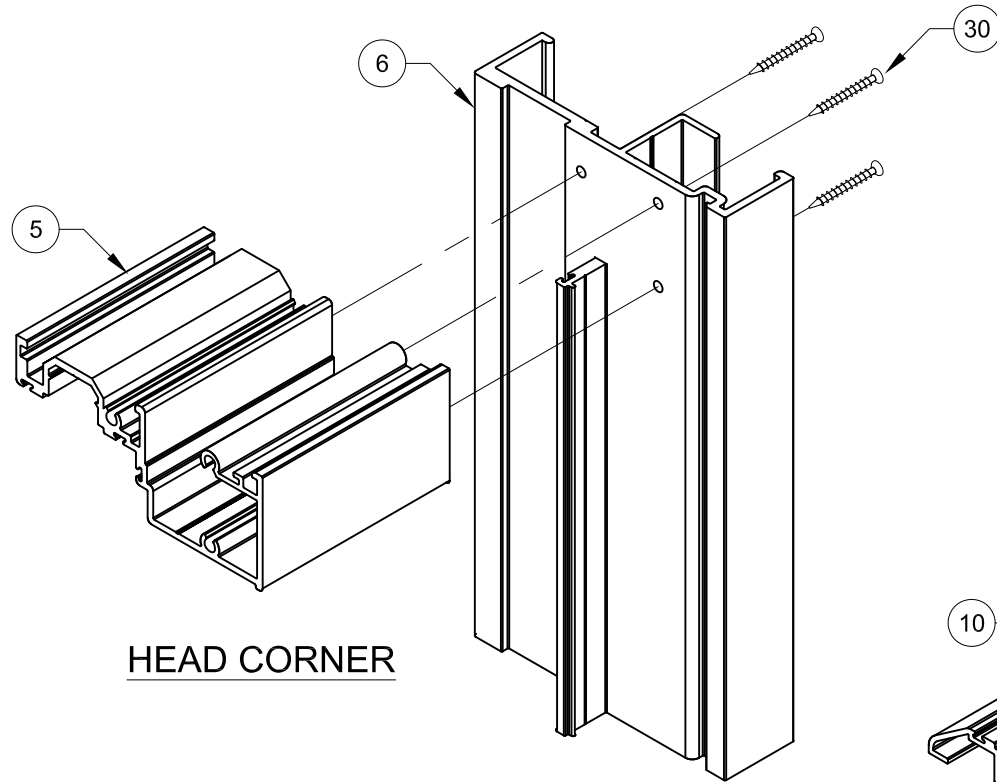


SEE INSTALLATION NOTES, SHEET 11.

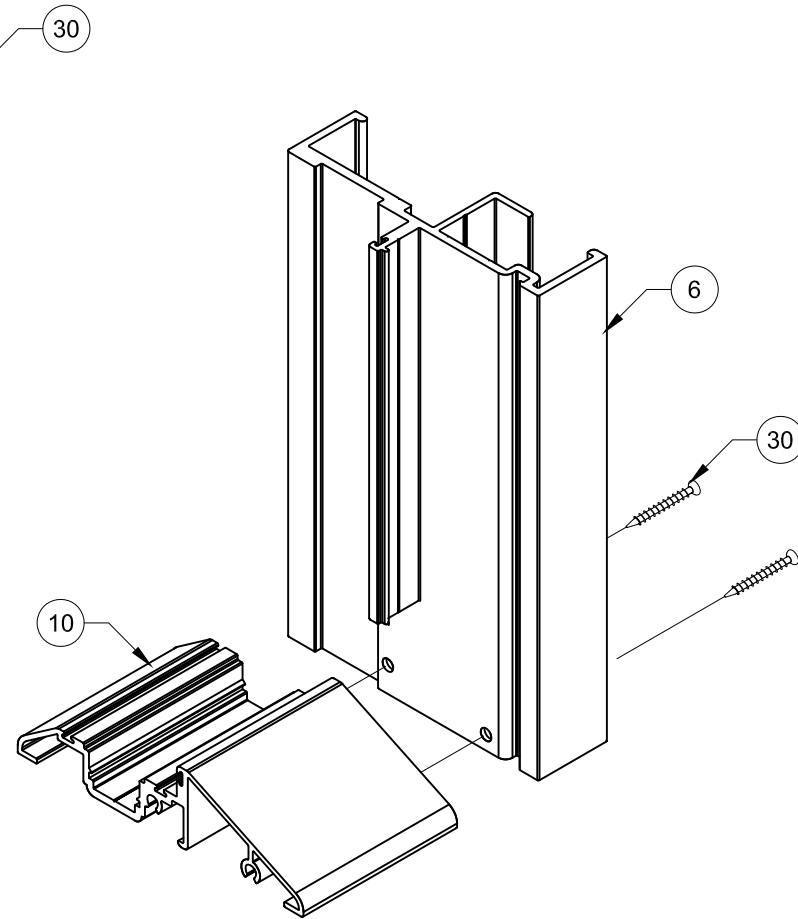
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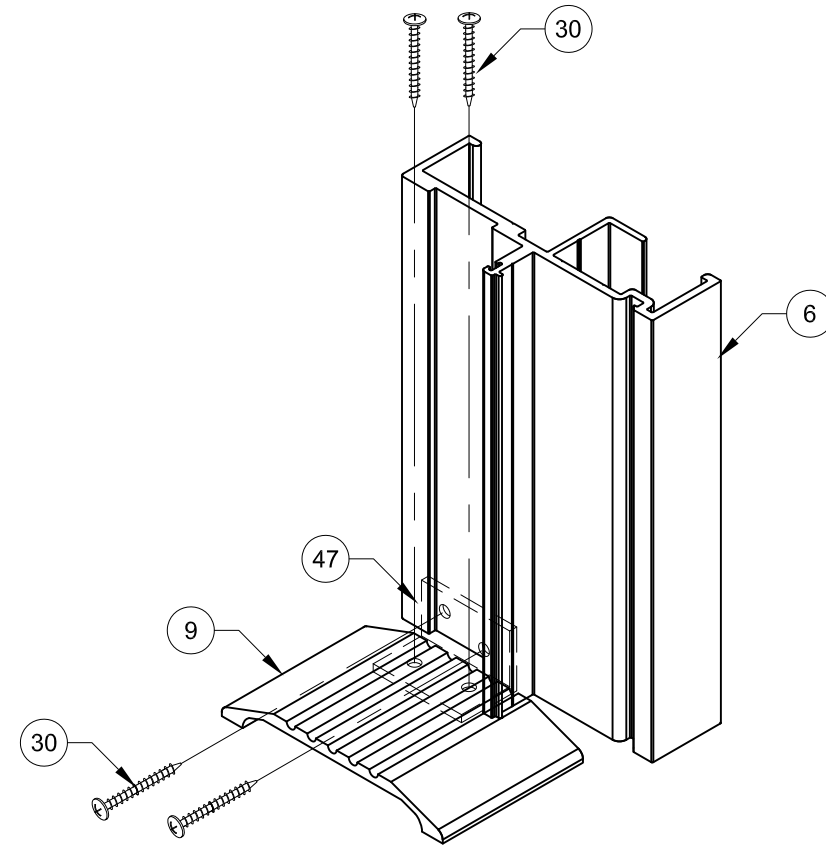
Rev. #	02/22/24	Date	CORRECTED TRANSOM JAMB DETAIL.	Rev.
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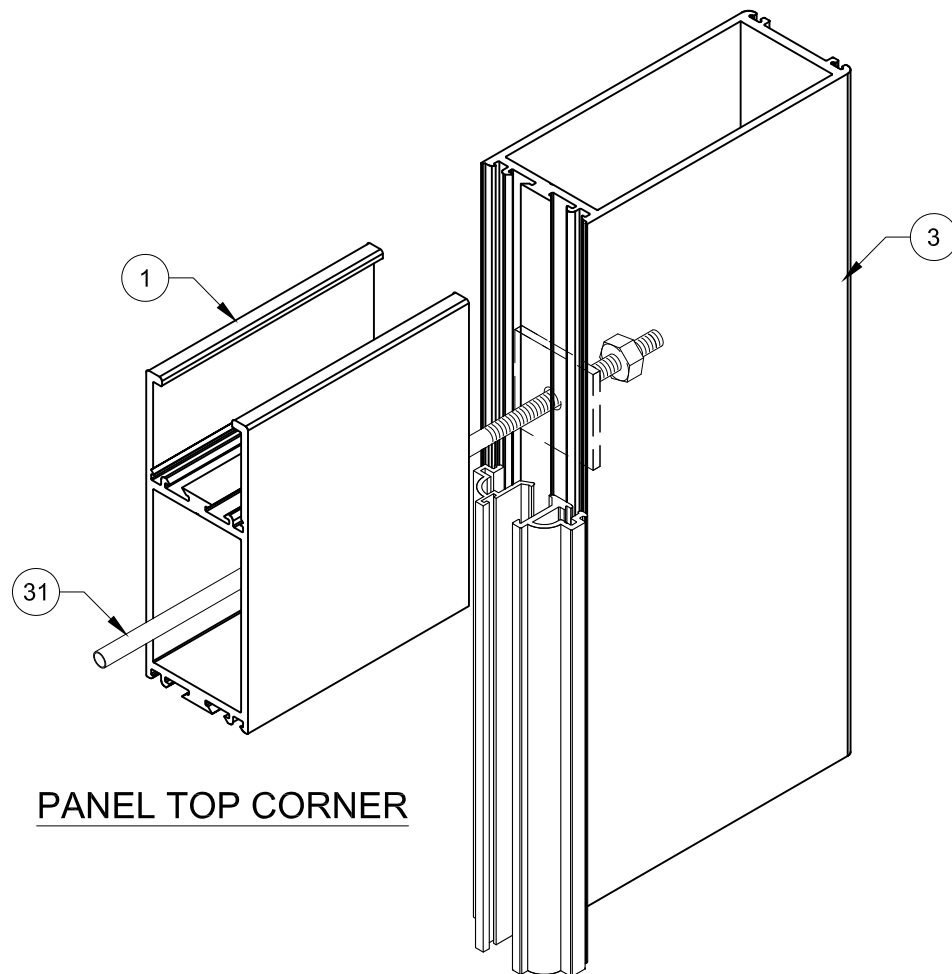
HEAD CORNER



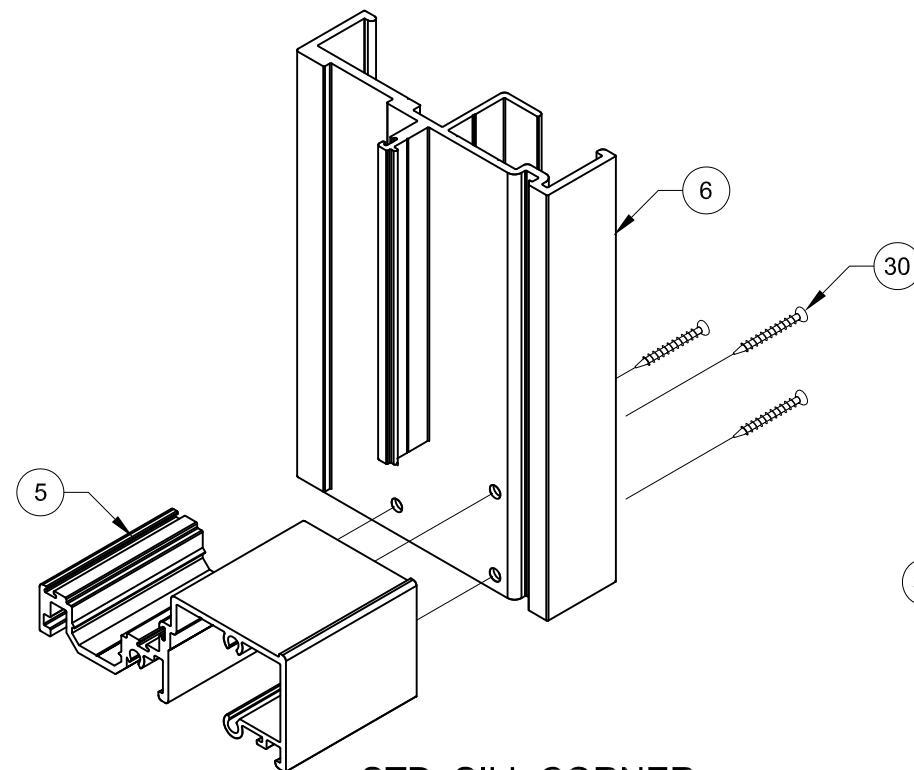
RESIDENTIAL SADDLE SILL



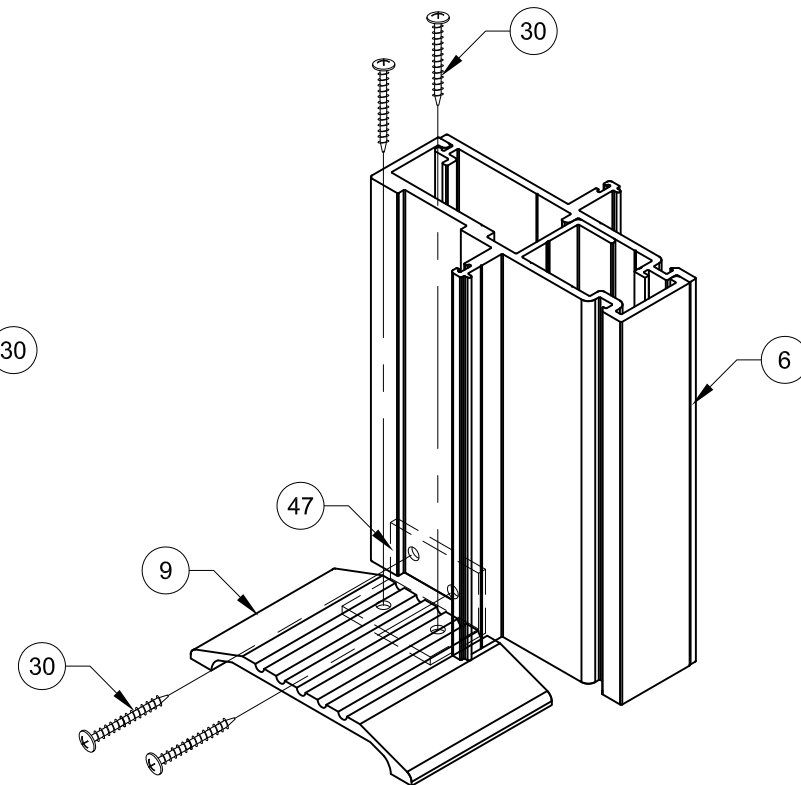
ADA SILL CORNER



PANEL TOP CORNER



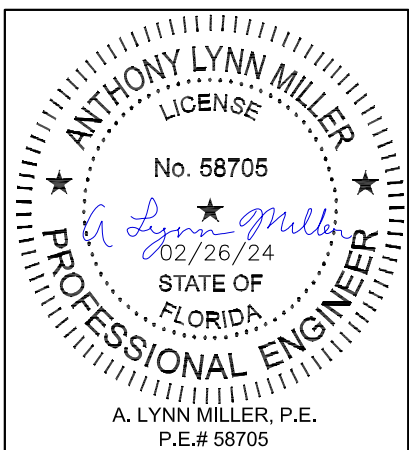
STD. SILL CORNER



ADA SILL @ MULLION

ALL CORNERS TO BE SEALED WITH SILICONE SILPRUF OR EQUIVALENT.
DETAILS MAY BE FOR INSWING OR OUTSWING DOORS.

		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		
104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		REGISTRATION #29296		12/12/22
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Title	ALUMINUM FRENCH DOOR (LM)			Date
Series	FD450A	Sheet	17 OF 21	DWG No.
CORNER ASSEMBLY		JENS ROSOWSKI		Drawn By
450FPA-LM-1				



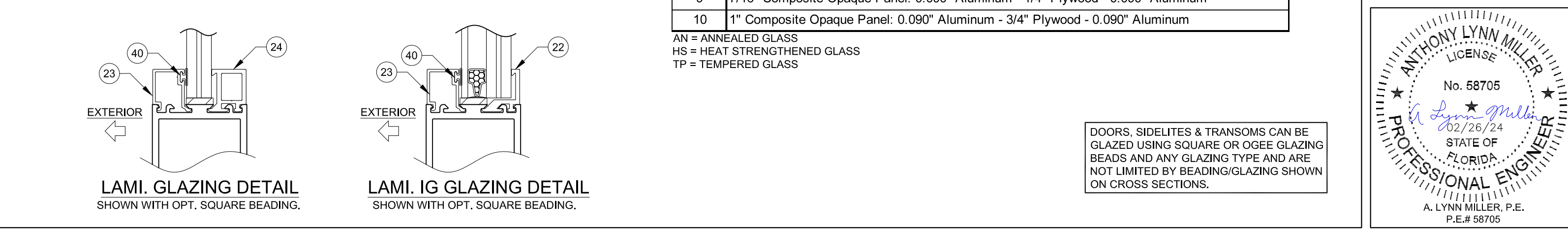
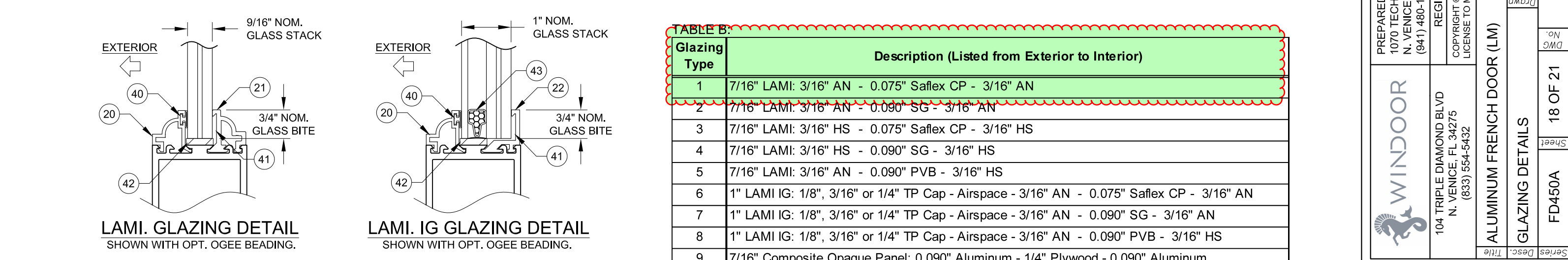
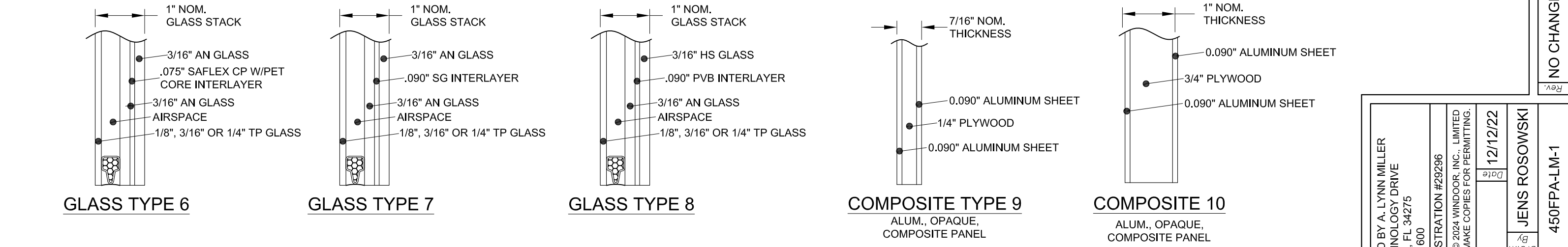
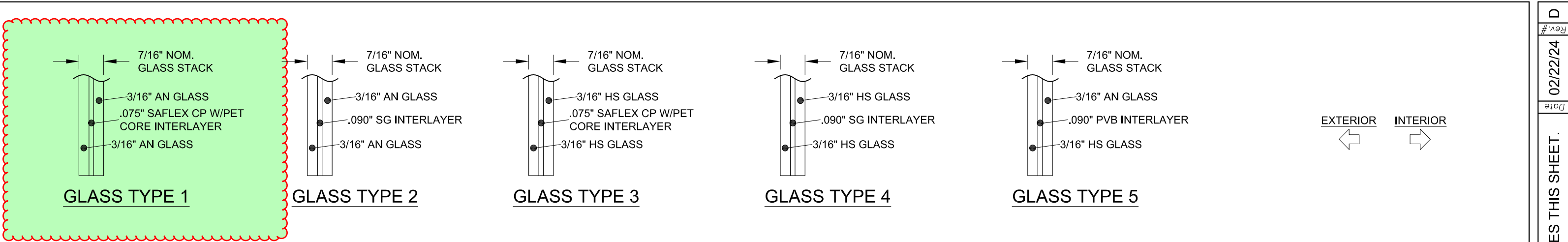


TABLE B:	
Glazing Type	Description (Listed from Exterior to Interior)
1	7/16" LAMI: 3/16" AN - 0.075" Saflex CP - 3/16" AN
2	7/16" LAMI: 3/16" AN - 0.090" SG - 3/16" AN
3	7/16" LAMI: 3/16" HS - 0.075" Saflex CP - 3/16" HS
4	7/16" LAMI: 3/16" HS - 0.090" SG - 3/16" HS
5	7/16" LAMI: 3/16" AN - 0.090" PVB - 3/16" HS
6	1" LAMI IG: 1/8", 3/16" or 1/4" TP Cap - Airspace - 3/16" AN - 0.075" Saflex CP - 3/16" AN
7	1" LAMI IG: 1/8", 3/16" or 1/4" TP Cap - Airspace - 3/16" AN - 0.090" SG - 3/16" AN
8	1" LAMI IG: 1/8", 3/16" or 1/4" TP Cap - Airspace - 3/16" AN - 0.090" PVB - 3/16" HS
9	7/16" Composite Opaque Panel: 0.090" Aluminum - 1/4" Plywood - 0.090" Aluminum
10	1" Composite Opaque Panel: 0.090" Aluminum - 3/4" Plywood - 0.090" Aluminum

AN = ANNEALED GLASS
HS = HEAT STRENGTHENED GLASS
TP = TEMPERED GLASS

DOORS, SIDELITES & TRANSOMS CAN BE GLAZED USING SQUARE OR OGEE GLAZING BEADS AND ANY GLAZING TYPE AND ARE NOT LIMITED BY BEADING/GLAZING SHOWN ON CROSS SECTIONS.

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
(941) 480-1600

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12/12/22

By JENS ROSOWSKI

18 OF 21

FD450A

ALUMINUM FRENCH DOOR (LM)

GLAZING DETAILS

450FPA-LM-1

WINDOOR

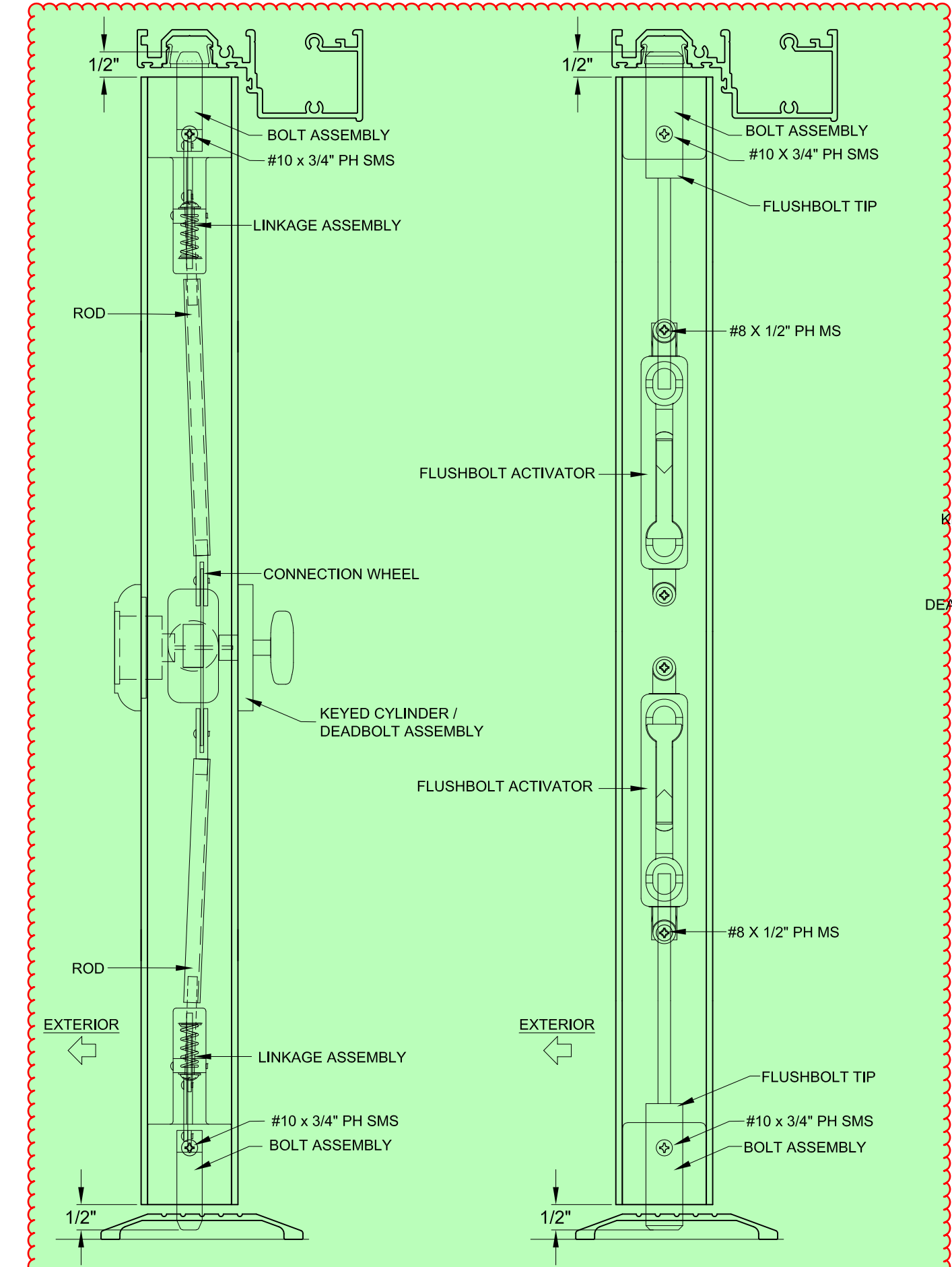
104 TRIPLE DIAMOND BLVD
N. VENICE, FL 34275
(833) 554-5432

ALUMINUM FRENCH DOOR (LM)

GLAZING DETAILS

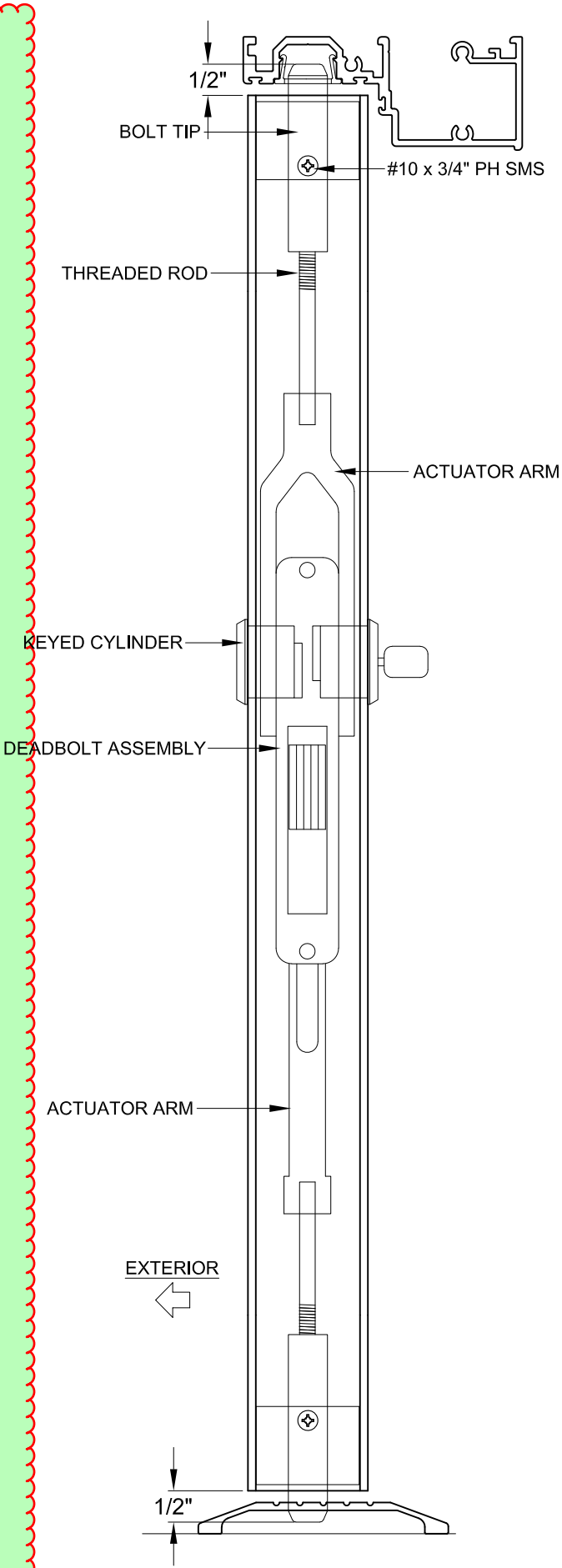
FD450A

ANTHONY LYNN MILLER
LICENSE
No. 58705
02/26/24
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

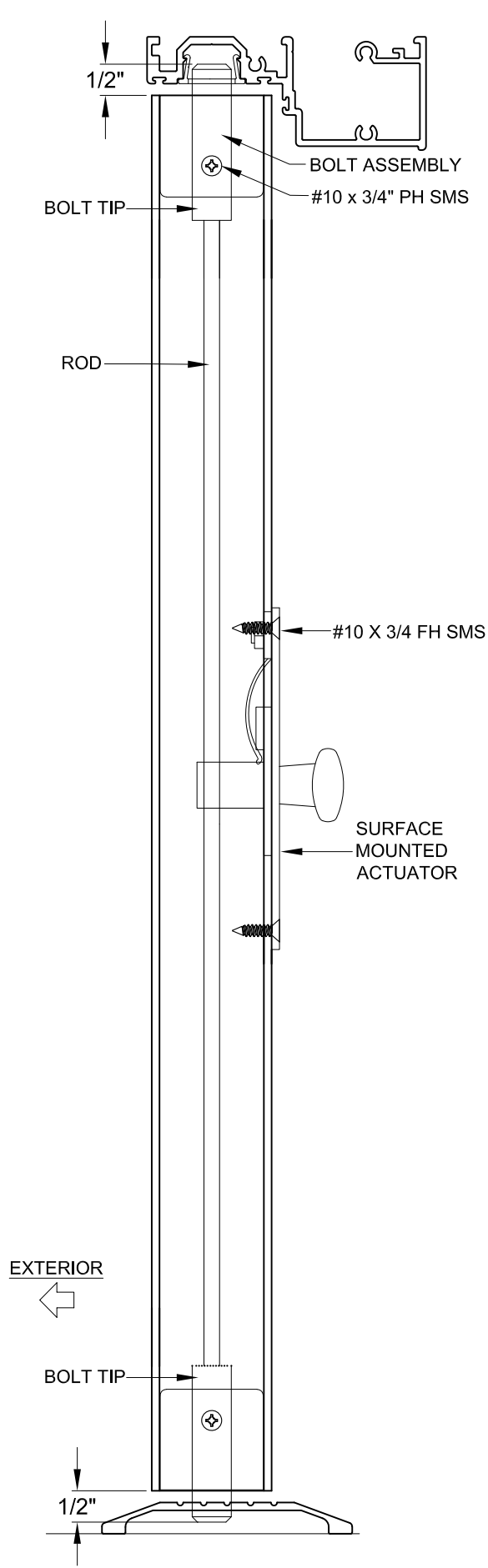


COPPER CREEK W/ 3 POINT LOCK

FLUSHBOLTS (INACTIVE PANEL)

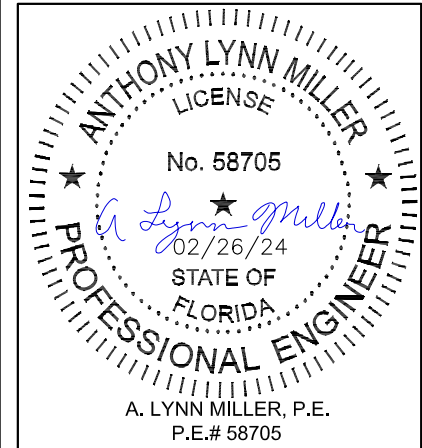


REGENT COMMERCIAL 3 POINT

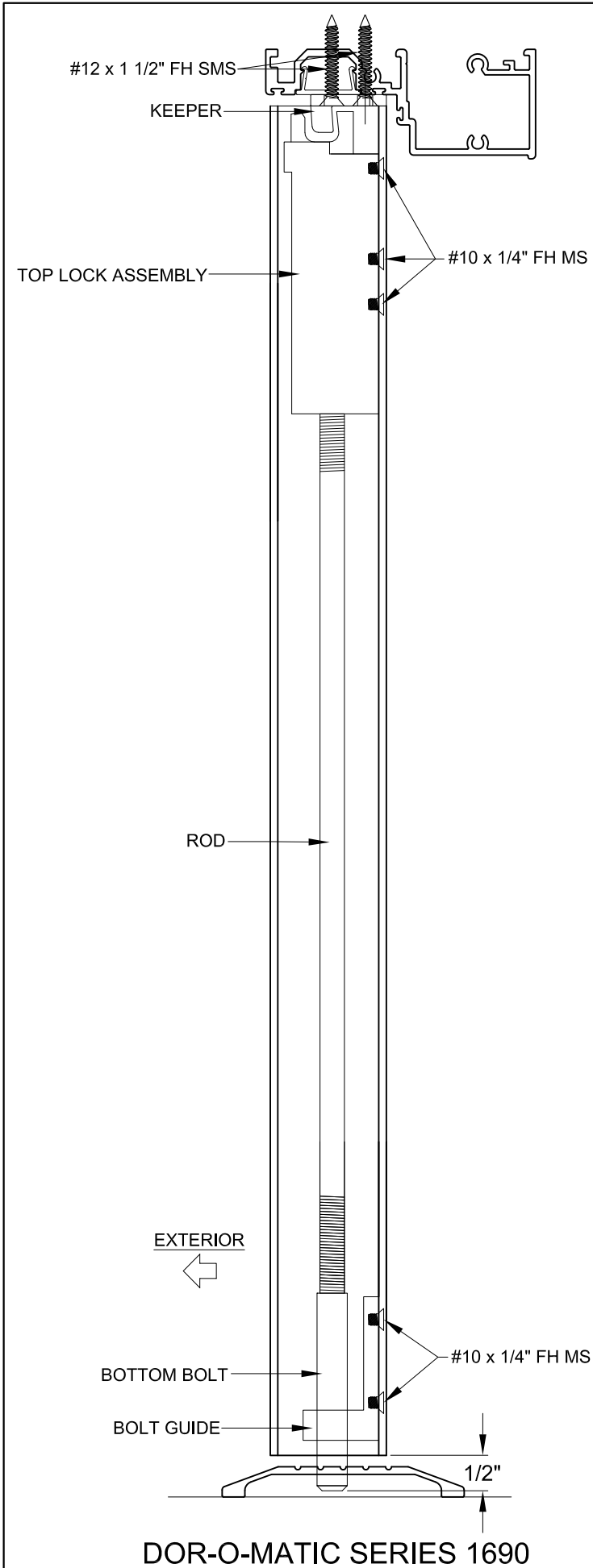


SURFACE MOUNTED LOCK

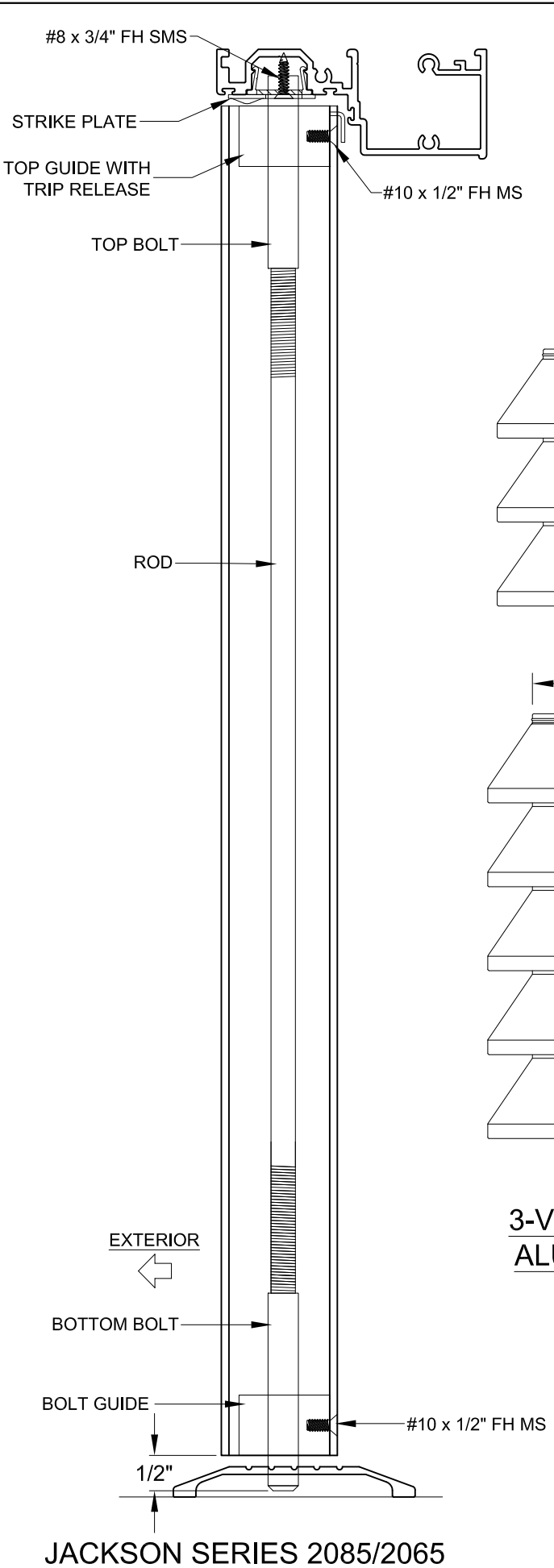
		PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600			
104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		REGISTRATION #29296		COPYRIGHT © 2024 WINDOOR, INC., LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
ALUMINUM FRENCH DOOR (LM)		Date		12/12/22	
HARDWARE		By		JENS ROSOWSKI	
FD450A		DWG No.		450FPA-LM-1	
19 OF 21		Sheet			
Series Desc.		Title			



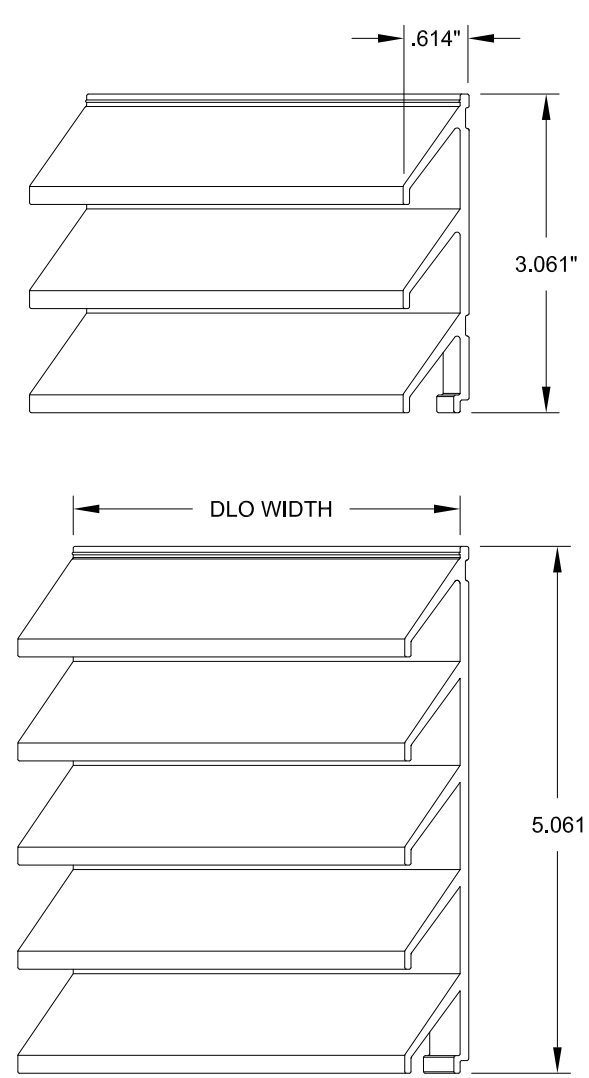
Rev.	02/22/24	D
Date		
NO CHANGES THIS SHEET.		



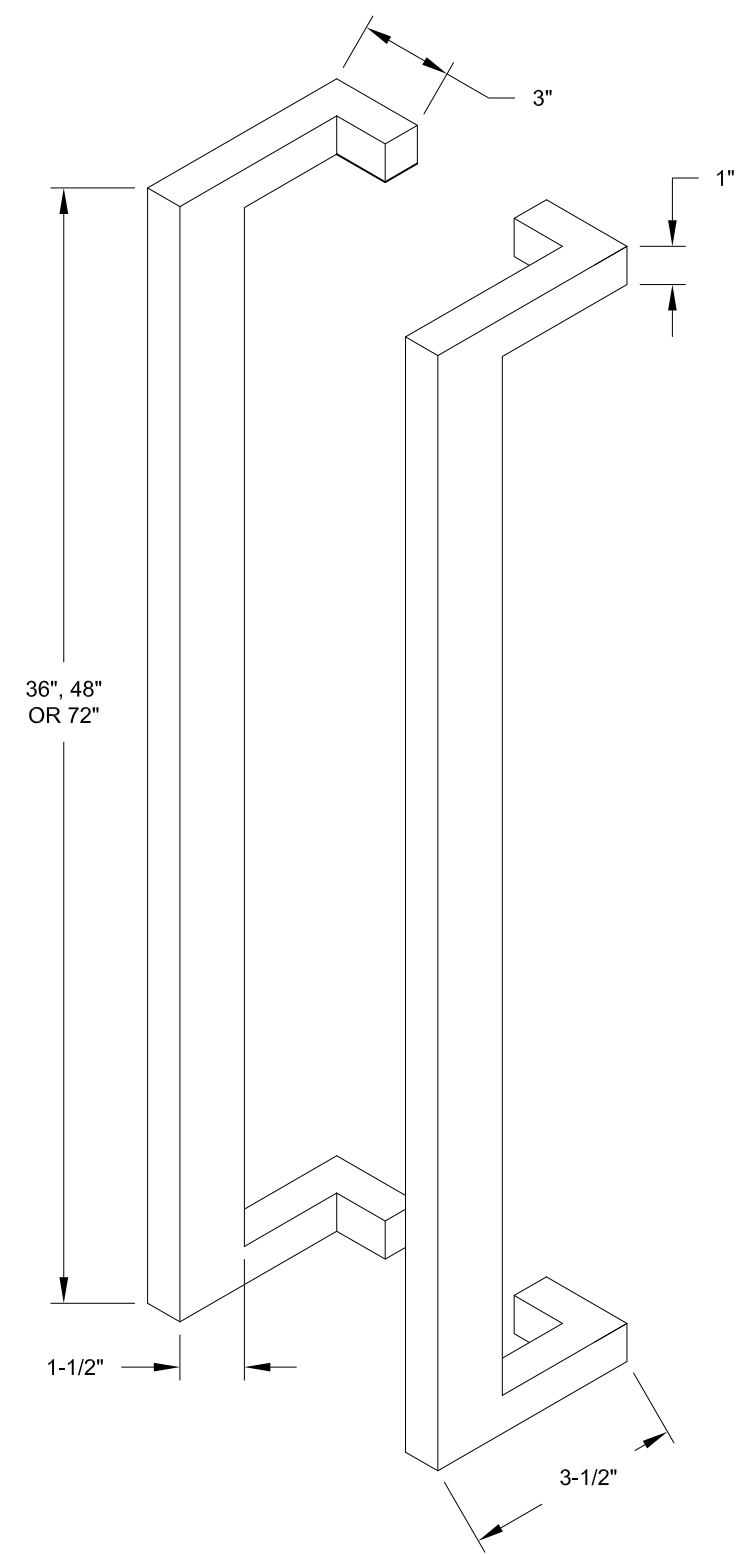
DOR-O-MATIC SERIES 1690



JACKSON SERIES 2085/2065

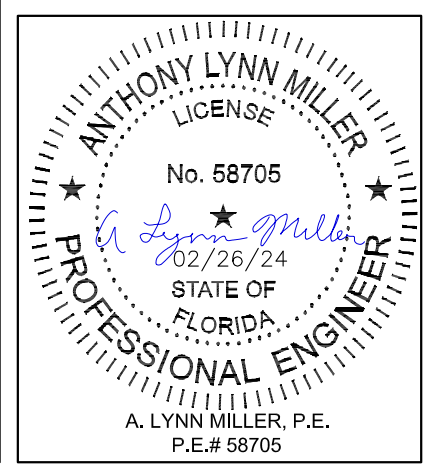


3-VENT & 5-VENT OPTIONAL
ALUMINUM FAUX LOUVERS
FOR COMPOSITE PANELS ONLY



OPTIONAL LADDER-PULL HANDLE

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ALUMINUM FRENCH DOOR (LM)		By		JENS ROSOWSKI	
HARDWARE		Drawn		DWG	
FD450A		Sheet		20 OF 21	
Series		Desc.		Title	
				No.	
				450FPA-LM-1	

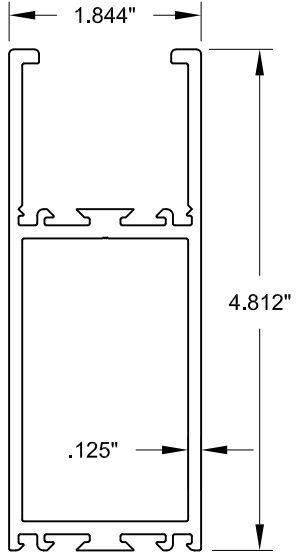


Rev.	02/22/24	D
Date	02/22/24	
Rev.	02/22/24	
Date	02/22/24	
Rev.	02/22/24	
Date	02/22/24	

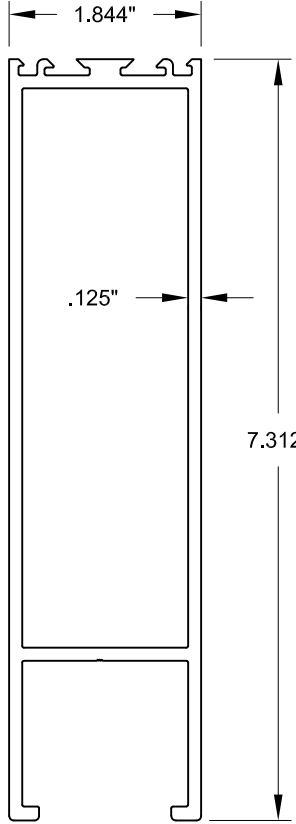
NO CHANGES THIS SHEET.

TABLE C:

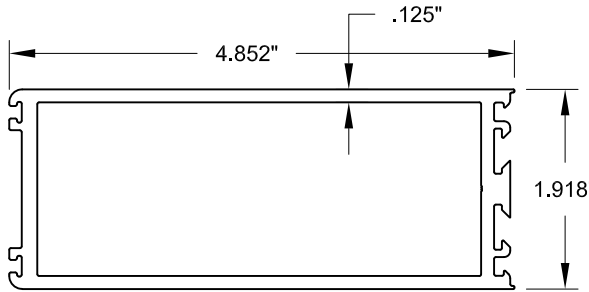
ITEM #	PART #	DESCRIPTION	MATERIAL
1	500a	Top Rail	ALUM. 6063-T6
2	501	Bottom Rail	ALUM. 6063-T6
3	502	Jamb / Lock / Sidelite Stile	ALUM. 6063-T6
4	503	Narrow Sidelite Stile	ALUM. 6063-T6
5	507	Door Frame Head / Sill	ALUM. 6063-T6
6	509	Framb Jamb / Mullion	ALUM. 6063-T6
7	510	Sidelite Mullion	ALUM. 6063-T6
8	514	Horizontal Muntin	ALUM. 6063-T6
9	540	Commercial/ADA Saddle Threshold	ALUM. 6063-T6
10	539	Residential Saddle Threshold	ALUM. 6063-T6
11	508	Frame Cover	ALUM. 6063-T5
12	505	Astragal	ALUM. 6063-T5
13	511	Jamb Cover	ALUM. 6063-T5
14	505	Shear Clip	ALUM. 6063-T5
15	506	Transom Channel	ALUM. 6063-T6
20	375	Mono. / I.G. Ogee Beading	ALUM. 6063-T5
21	504	Monolithic IG Stop	ALUM. 6063-T6
22	515	I.G. Stop	ALUM. 6063-T6
23	396	Mono. / I.G. Square Beading	ALUM. 6063-T5
24	519	Monolithic Square Stop	ALUM. 6063-T6
30		#12 x 1-1/4" Ph. SMS (Frame Assembly)	Stainless Steel
31		3/8"-16 Threaded Rod	Steel
32		3/8"-16 Hex Nut	Steel
33		1-1/2 x 1-1/2" x 3/16" Aluminum Plate	Aluminum
34		Weephole Cover	PVC
35		#10 x 1" Ph. PH SDS (Sidelite Attachment)	Stainless Steel
36		#14 x 3/4" HH SDS (Mullion Assembly)	Stainless Steel
37		0.320" Woolpile (Ultrafab 3032)	-
38		0.350" Foam-filled Bulb (Amesbury 32011)	-
39		1/2" x 1/2" Adhesive Closed Cell Foam Pad	-
40	382	Glazing Bead Vinyl	Vinyl
41		Backbedding, GE-1200, Dow 791, 899, 983, 995	Silicone
42		Setting Block	
43		Insulated Glass Spacer	-
45		Hinge, 4" x 4-1/2"	Stainless Steel
46		12-24 x 1/2" Thread-cutting SMS (Hinge)	Stainless Steel
47		2" x 2" x 1/4" Angle	Aluminum



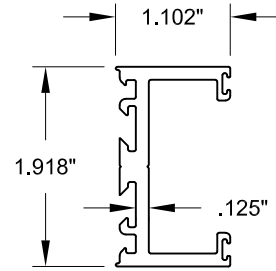
1 TOP RAIL



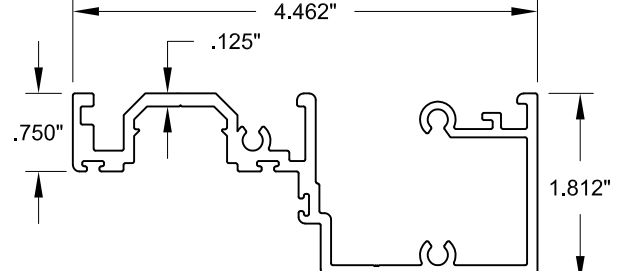
2 BOTTOM RAIL



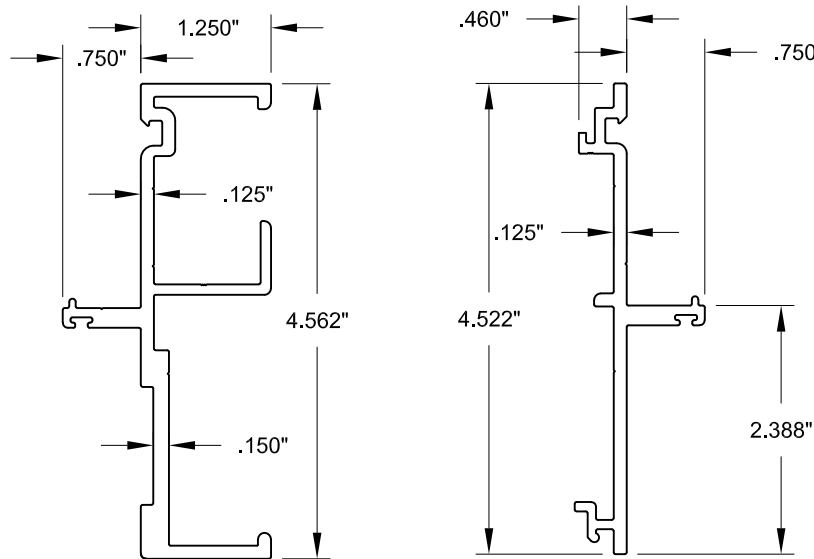
3 JAMB/LOCK/SIDELITE STILE



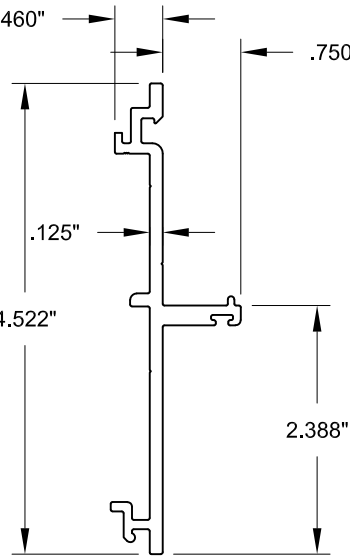
4 NARROW SIDELITE STILE



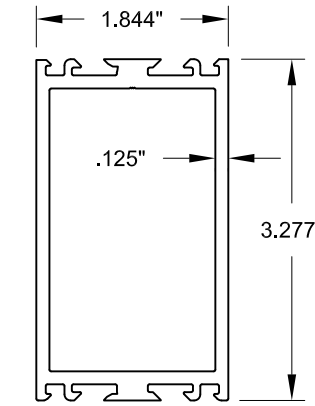
5 DOOR FRAME HEAD/SILL



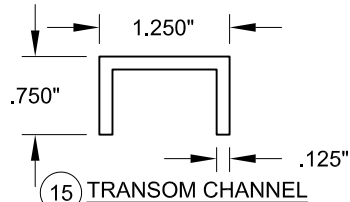
6 FRAME JAMB/MULLION



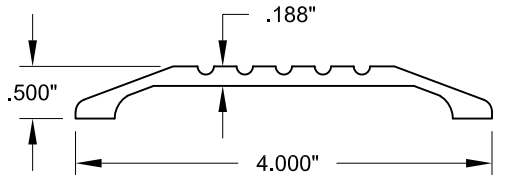
7 SIDELITE MULLION



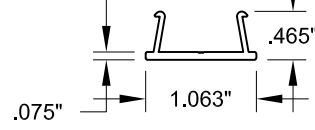
8 HORIZONTAL MUNTIN



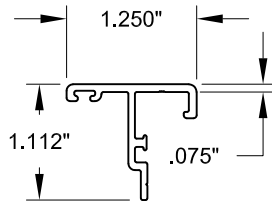
15 TRANSOM CHANNEL



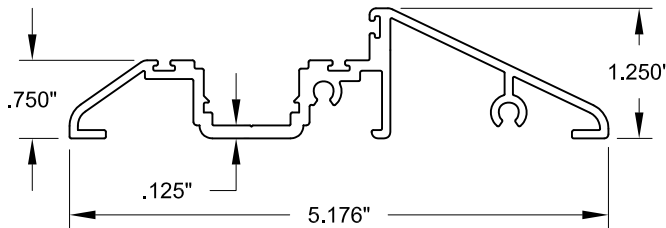
9 COMMERCIAL/ADA SADDLE THRESHOLD



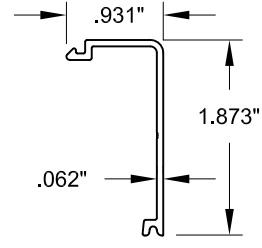
11 FRAME COVER



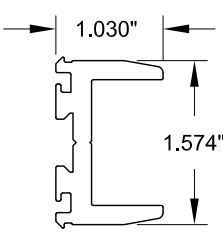
12 ASTRAGAL



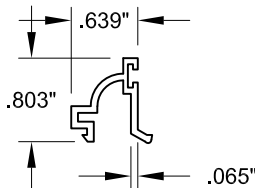
10 RESIDENTIAL SADDLE THRESHOLD



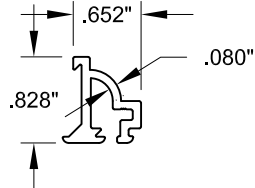
13 JAMB COVER



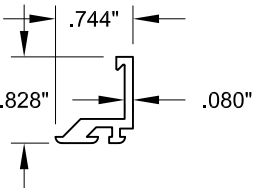
14 SHEAR CLIP



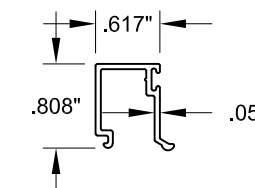
20 MONO. / I.G. OGEE BEADING



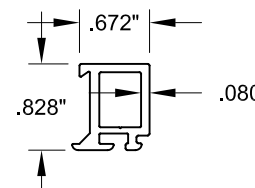
21 MONOLITHIC OGEE STOP



22 I.G. STOP



23 MONO. / I.G. SQUARE BEADING



24 MONOLITHIC SQUARE STOP

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	Title	ALUMINUM FRENCH DOOR (LM)		Date	12/12/22
		BOM AND EXTRUSIONS		By Drawn	JENS ROSOWSKI
Series	FD450A	Sheet	21 OF 21		DWG No.
			450FPA-LM-1		

