

SERIES FD9950A, IMPACT-RESISTANT, ALUMINUM, OUTSWING/INSWING FRENCH DOOR WITH SIDELITE & PICTURE WINDOW

1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.

3) FOR MASONRY APPLICATIONS, USE ONLY APPROVED MASONRY ANCHORS. MATERIALS USED FOR ANCHOR EVALUATIONS WERE SOUTHERN PINE, ASTM C90 CONCRETE MASONRY UNITS (CMU'S) OF NORMAL WEIGHT AND OF COMPRESSIVE STRENGTH OF MIN. 1.9 KSI AND CONCRETE WITH MIN. KSI PER ANCHOR TYPE.

4) 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.

5) IF SILL IS TIGHT TO SUBSTRATE, GROUT IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT AT 3.4 KSI MIN. PER ASTM C1107, (DONE BY OTHERS). MAX. 1/4" SHIM SPACE FOR GROUT WHICH MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, #30 FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION, COMPLYING WITH THE FBC.

6) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE THE EMBEDMENT SHOWN ON TABLE 1, THIS SHEET. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.

7) MAX. 1/4" SHIMS ARE REQUIRED AT EACH ANCHOR LOCATION 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.

8) DESIGN PRESSURES:
A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL AND CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL AND CYCLE TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.
C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.

9) THE ANCHORAGE METHODS SHOWN HAVE BEEN DESIGNED TO RESIST THE WINDLOADS 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 (INCLUDING ADOPTED STANDARDS) FOR CORROSION RESISTANCE.

10) SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE FLORIDA BUILDING CODE.

NOTE: MINIMUM FRAME WIDTH REQUIRED TO MEET 32" CLEAR EGRESS OPENING:
SINGLE DOORS = 38-1/4"
DOUBLE DOORS = 73-7/8"

FLORIDA PRODUCT APPROVAL #29783

TABLE 1:

Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. Embedment or Metal Thickness
A	#14 Steel SMS (Gr. 5) or 410 SS SMS	Head, Sill & Jamb	Southern Pine (SG = 0.55)	5/8"	1-3/8"
B	#14 Steel SMS (Gr. 5) or 410 SS SMS	Head, Sill & Jamb	6063-T5 Aluminum	3/8"	0.090"
			A36 Steel	3/8"	0.063"
			Steel Stud, Gr. 33	3/8"	0.045" (18 Ga)
C	1/4" DeWalt Ultracon+®	Head & Sill	Concrete (min. 3 ksi)	1-3/4"	1-3/8"
		Jamb	Hollow/Filled CMU (ASTM C90) (or 3k Conc.)	2-1/2"	1-1/4"
	1/4" 410 SS Elco CreteFlex®	Head & Sill	Concrete (min. 3.35ksi)	1-3/4"	1-3/4"
		Jamb	Hollow/Filled CMU (ASTM C90) (or 3.35k Conc.)	2-1/2"	1-1/4"
D	1/4" DeWalt Ultracon+®	Head & Sill	Concrete (min. 3 ksi)	2-1/2"	1-3/8"
		Jamb	Hollow/Filled CMU (ASTM C90) (or 3k Conc.)	2-1/2"	1-1/4"
	1/4" 410 SS Elco CreteFlex®	Head & Sill	Concrete (min. 3.35 ksi)	2-1/2"	1-3/4"
		Jamb	Hollow/Filled CMU (ASTM C90) (or 3.35k Conc.)	2-1/2"	1-1/4"
	5/16" DeWalt Ultracon	Head & Sill	Concrete (min. 3.5ksi)	2-1/2"	2"
		Jamb	Hollow/Filled CMU (ASTM C90) (or 3.5k Conc.)	3-1/8"	1-1/4"

- 1) ALL ANCHOR HEAD TYPES ARE APPLICABLE, FLATHEAD RECOMMENDED WITH LOW PROFILE SILL.
2) MIN. OF 3 THREADS BEYOND METAL SUBSTRATE.
3) METAL SUBSTRATE TO MEET MIN. STRENGTH, IMPOSED DEAD LOADS AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE AND TO BE REVIEWED BY THE AUTHORITY HAVING JURISDICTION.
4) THIS TABLE FOR DOORS AND MULLIONS ONLY. SEE TABLE 21 FOR SIDELITE ANCHORS.

INSTRUCTIONS:

- 1) DETERMINE THE DESIGN PRESSURE REQUIREMENT (LBS/FT²) FOR THE OPENING USING THE ASCE-7 STANDARD.
- 2) DETERMINE YOUR ANCHOR GROUP FROM TABLE 1, THIS SHEET FOR DOORS AND TABLE 21, SHEET 11 FOR SIDELITES. DETERMINE YOUR GLASS TYPE FROM SHEET 15.
- 3) DETERMINE THE DESIGN PRESSURE OF EACH INDIVIDUAL PRODUCT (DOOR, SIDELITE, MULLION) IN YOUR CONFIGURATION USING THE TABLES. THE LOWEST OF THESE DESIGN PRESSURES SHALL CONTROL THE ENTIRE SYSTEM. THIS DESIGN PRESSURE NEEDS TO BE GREATER THAN OR EQUAL TO THE OPENING'S REQUIRED DESIGN PRESSURE FROM STEP 1.
- 4) ANCHOR LOCATIONS AND SPACING ARE SHOWN ON THE ELEVATIONS ON SHEETS 2-7, 9, & 10. SHEETS 18-24 SHOW INSTALLATION CROSS-SECTION DETAILS.
- 5) SEE THE EXAMPLES ON SHEET 17.

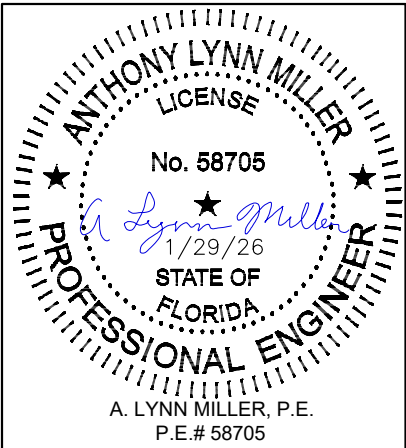
DESIGN PRESSURE RATING
SEE SHEETS 2-5 (SINGLE DOOR) SEE SHEETS 6 & 7 (DOUBLE DOOR)

IMPACT RATING
RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

GUIDE TO SHEETS:

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PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600	REGISTRATION #29296 COPYRIGHT © 2026 WINDOOR, LLC. LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	2/29/24		FD9950LMI - FPA
		Date	By	
		C. KEMPF		
		GEN. NOTES & ANCHOR TABLE		
WINDOOR	104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432	ALUMINUM IS & OS FRENCH DOOR (LM)		1 OF 25
		Date		
		Title		
		Desc.		
FD9950A		Sheet		



OUTSWING X DOORS WITH STD. THRESHOLD ONLY

TABLE 2:

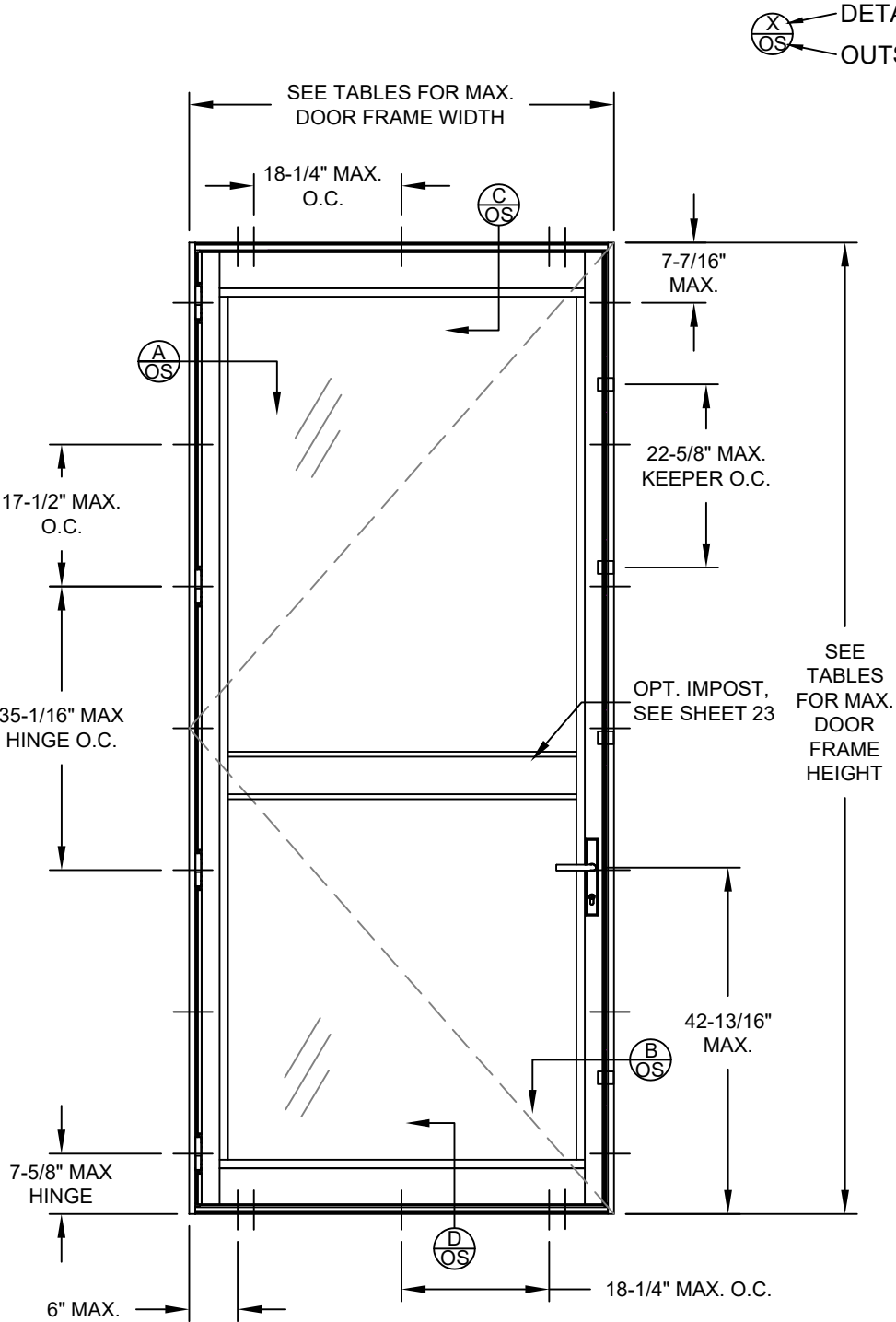
Design Pressures (PSF) for Single Doors (X)							
Glass Type: 1							
Frame Height	Overall (X) Frame Width						
	28"	32"	37-7/16"	40-13/16"	44-15/16"	49-7/8"	52-1/2"
72"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
80"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
84"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
96"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -68.5
102-11/16"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -65.7	+62.9 / -62.9
108"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -69.9	+61.5 / -61.5	
120"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+64.7 / -64.7		
132"	+65 / -70	+65 / -70	+65 / -70	+65 / -70			
144"	+65 / -70	+65 / -70	+65 / -70				

TABLE 3:

Design Pressures (PSF) for Single Doors (X)							
Glass Type: 2 & 3							
Frame Height	Overall (X) Frame Width						
	28"	32"	37-7/16"	40-13/16"	44-15/16"	49-7/8"	52-1/2"
72"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
80"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
84"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
96"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
102-11/16"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
108"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -69.5	
120"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70		
132"	+65 / -70	+65 / -70	+65 / -70	+65 / -70			
144"	+65 / -70	+65 / -70	+65 / -70				

TABLE 4:

Design Pressures (PSF) for Single Doors (X)							
Glass Type: 4, 5, & 6							
Frame Height	Overall (X) Frame Width						
	28"	32"	37-7/16"	40-13/16"	44-15/16"	49-7/8"	52-1/2"
72"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
80"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
84"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
96"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
102-11/16"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
108"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	
120"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70		
132"	+65 / -70	+65 / -70	+65 / -70	+65 / -70			
144"	+65 / -70	+65 / -70	+65 / -70				



TYP. ELEVATION

- NOTES:
- 1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
 - 2) SEE SHEET 15 FOR GLASS DESCRIPTIONS.
 - 3) DLO WIDTH = FRAME WIDTH - 9-7/16"
 - 4) DLO HEIGHT = FRAME HEIGHT - 13-3/8"

DETAIL LETTER
OUTSWING, SEE SHEETS 18 & 19

WINDOOR

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ALUMINUM IS & OS FRENCH DOOR (LM)

2/29/24

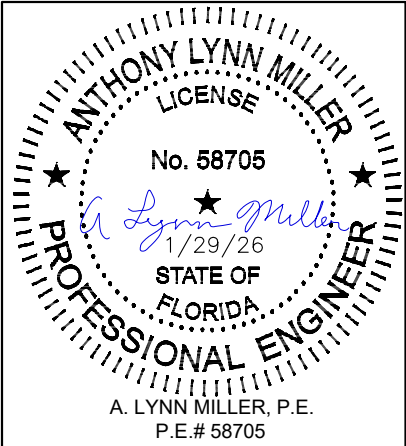
X ELEVATION & DP

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OUTSWING X DOORS WITH STD. THRESHOLD ONLY

TABLE 5:

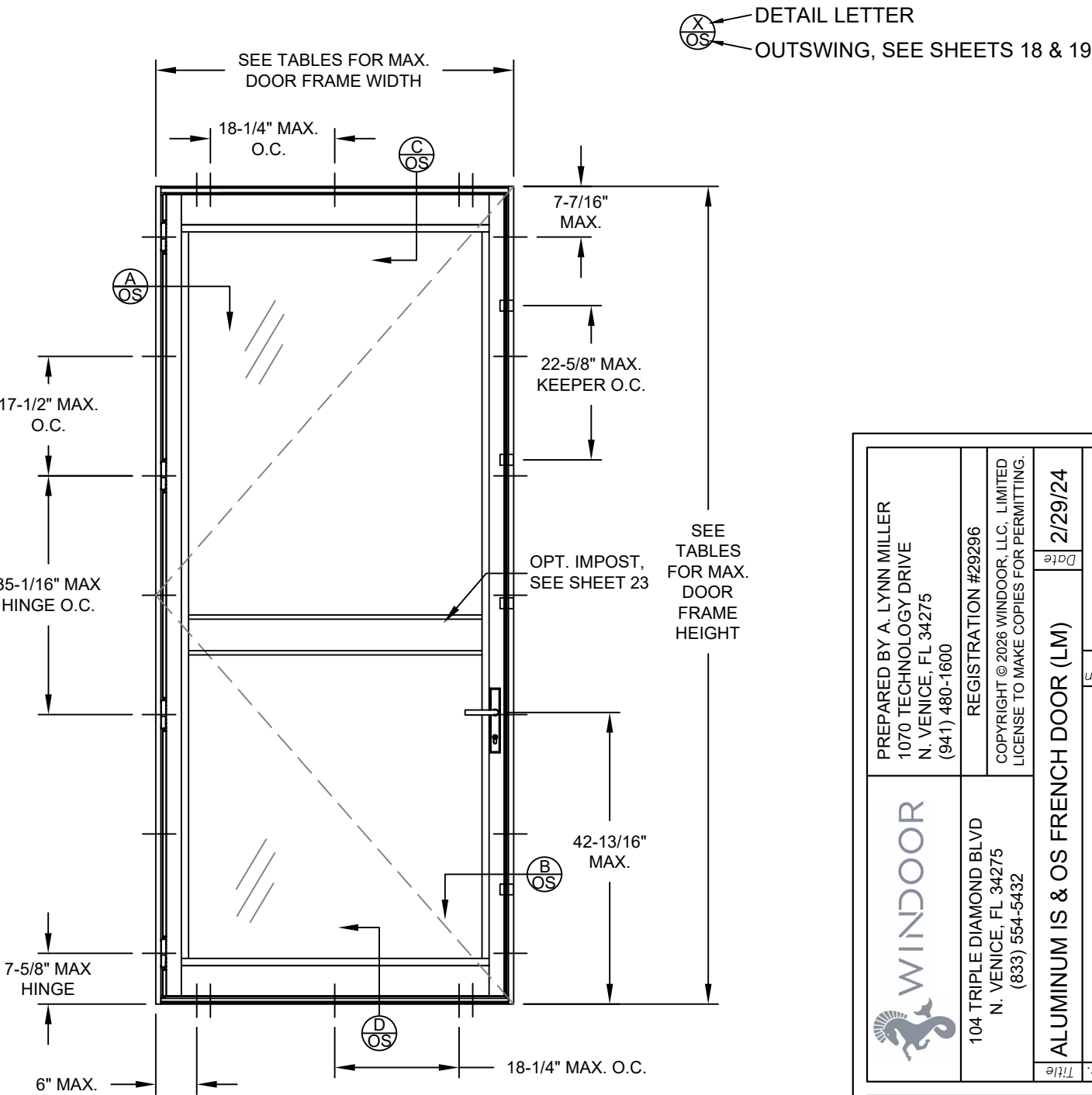
Design Pressures (PSF) for Single Doors (X)							
Glass Type: 7, 8, & 9							
Frame Height	Overall (X) Frame Width						
	28"	32"	36"	40"	43-3/4"	47-11/16"	52-1/2"
72"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -70	+70 / -70
80"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -70	+70 / -70
84"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -70	+70 / -70
96"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -70	+70 / -70
108"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -77.8	+70 / -70	+70 / -70
120"	+70 / -80	+70 / -80	+70 / -80	+70 / -77	+70 / -70	+70 / -70	+70 / -70
132"	+70 / -80	+70 / -73.3	+70 / -70	+70 / -70	+70 / -70	+70 / -70	
144"	+70 / -70	+70 / -70	+70 / -70	+70 / -70	+70 / -70		

TABLE 6:

Design Pressures (PSF) for Single Doors (X)							
Glass Type: 10 & 11							
Frame Height	Overall (X) Frame Width						
	28"	32"	36"	40"	43-3/4"	47-11/16"	52-1/2"
72"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -70	+70 / -70
80"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -70	+70 / -70
84"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -70	+70 / -70
96"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -70	+70 / -70
108"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -77.8	+70 / -70	+70 / -70
120"	+70 / -80	+70 / -80	+70 / -80	+70 / -77	+70 / -70	+70 / -70	+70 / -70
132"	+70 / -80	+70 / -73.3	+70 / -70	+70 / -70	+70 / -70	+70 / -70	

NOTES:

- 1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
2) SEE SHEET 15 FOR GLASS DESCRIPTIONS.
3) DLO WIDTH = FRAME WIDTH - 9-7/16"
4) DLO HEIGHT = FRAME HEIGHT - 13-3/8"



TYP. ELEVATION

WINDOOR

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ALUMINUM IS & OS FRENCH DOOR (LM)

2/29/24

X ELEVATION & DP

C. KEMPF

FD9950A

3 OF 25

FD9950LMI - FPA

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Rev. #

1/29/26

Date

ADDED OPT. IMPOST - CK

E

X DOORS, INSWING OR OUTSWING WITH STD. OR LOW PROFILE THRESHOLD

TABLE 7:

Design Pressures (PSF) for Single Doors (X)						
Glass Type: 1						
Frame Height	Overall (X) Frame Width					
	28"	32"	37-5/8"	40-15/16"	44-7/8"	47-1/8"
72"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
80"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
84"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
96"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
108"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+64.9 / -64.9
114-1/4"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -66.9	+61.6 / -61.6
120"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+64.7 / -64.7	
132"	+65 / -70	+65 / -70	+65 / -66.3	+60.8 / -60.8		
144"	+65 / -69	+56.5 / -56.5	+51.1 / -51.1			

TABLE 8:

Design Pressures (PSF) for Single Doors (X)						
Glass Type: 2 & 3						
Frame Height	Overall (X) Frame Width					
	28"	32"	37-5/8"	40-15/16"	44-7/8"	47-1/8"
72"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
80"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
84"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
96"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
108"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
114-1/4"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -69.7
120"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	
132"	+65 / -70	+65 / -70	+65 / -66.3	+60.8 / -60.8		
144"	+65 / -69	+56.5 / -56.5	+51.1 / -51.1			

TABLE 9:

Design Pressures (PSF) for Single Doors (X)						
Glass Type: 4, 5, & 6						
Frame Height	Overall (X) Frame Width					
	28"	32"	37-5/8"	40-15/16"	44-7/8"	47-1/8"
72"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
80"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
84"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
96"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
108"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
114-1/4"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
120"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	
132"	+65 / -70	+65 / -70	+65 / -66.3	+60.8 / -60.8		
144"	+65 / -69	+56.5 / -56.5	+51.1 / -51.1			

NOTES:

- 1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 2) SEE SHEET 15 FOR GLASS DESCRIPTIONS.
- 3) DLO WIDTH = FRAME WIDTH - 9-7/16"
- 4) DLO HEIGHT = FRAME HEIGHT - 13-5/8" (STD. THRESHOLD)
- 5) DLO HEIGHT = FRAME HEIGHT - 13-7/16" (LOW PROFILE THRESHOLD)
- 6) INSWING DOORS AND ALL DOORS WITH LOW PROFILE THRESHOLD ARE NOT RATED FOR WATER INFILTRATION. IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIGURE 1, THE (+) DESIGN PRESSURES SHOWN IN THE TABLE MAY BE USED AND BOTH THRESHOLDS ARE ACCEPTABLE.

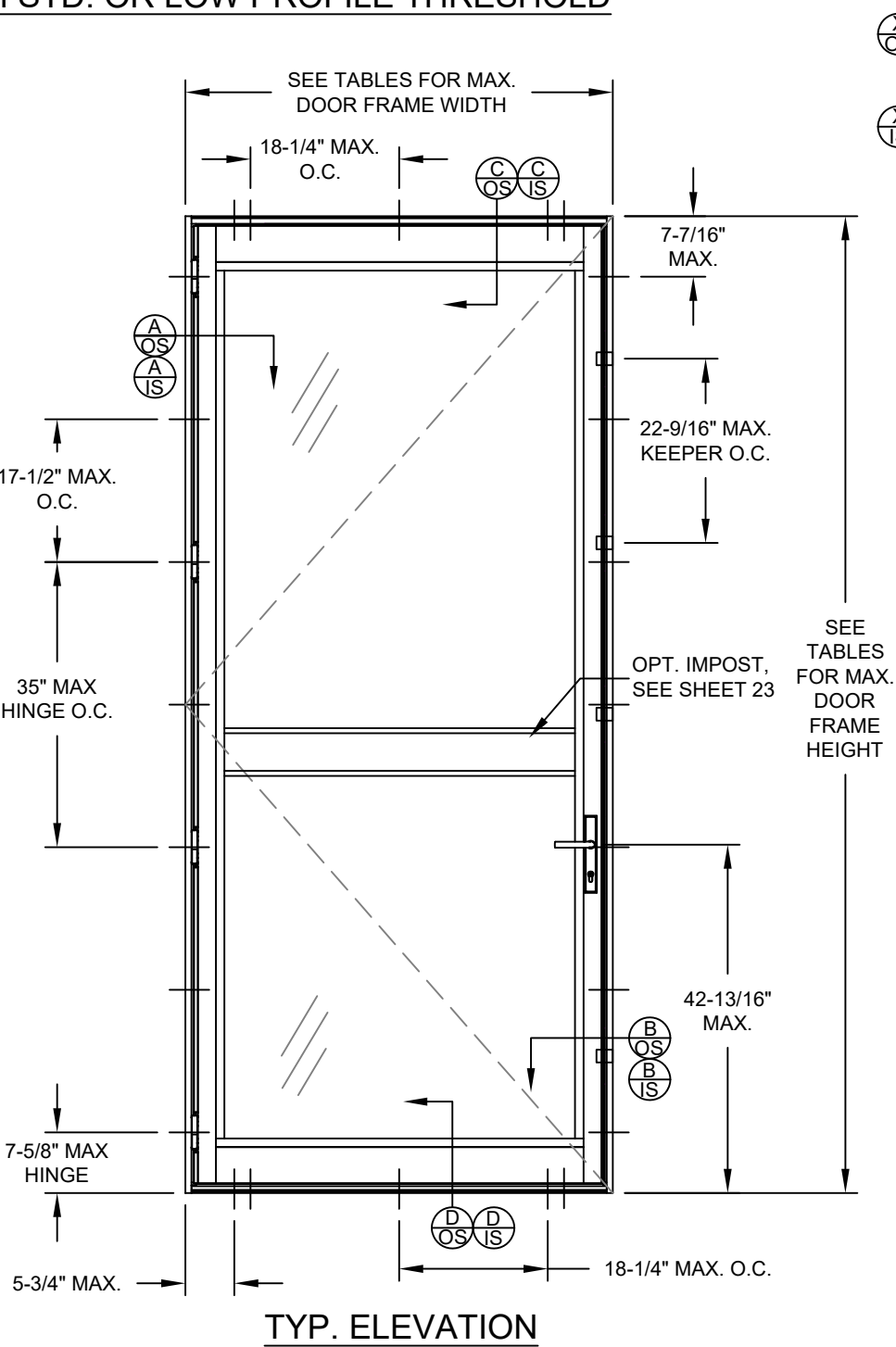
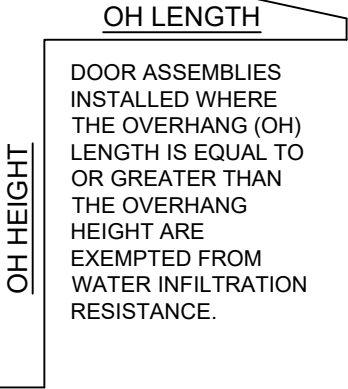
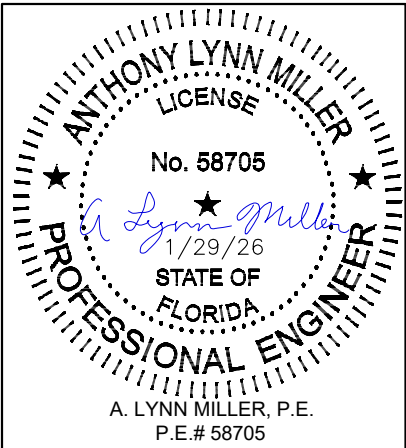


FIGURE 1:



- DETAIL LETTER (X OS) OUTSWING, SEE SHEETS 18 & 19
- DETAIL LETTER (X IS) INSWING, SEE SHEETS 20 & 21

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Title	ALUMINUM IS & OS FRENCH DOOR (LM)		Date	2/29/24	
X ELEVATION & DP		By		C. KEMPF	
Series	FD9950A	Sheet	4 OF 25		DWG No.
				FD9950LMI - FPA	



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Date		
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X DOORS, INSWING OR OUTSWING WITH STD. OR LOW PROFILE THRESHOLD

TABLE 10:

Design Pressures (PSF) for Single Doors (X)						
Glass Type: 7, 8, & 9						
Frame Height	Overall (X) Frame Width					
	28"	32"	36"	39-7/16"	42-15/16"	47-1/8"
72"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
80"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
84"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
96"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
108"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -77.8
120"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -77	+70 / -70
132"	+70 / -80	+70 / -73.3	+67.2 / -67.2	+63.1 / -63.1	+57.9 / -57.9	
144"	+69 / -69	+56.5 / -56.5	+51.8 / -51.8	+48.6 / -48.6		

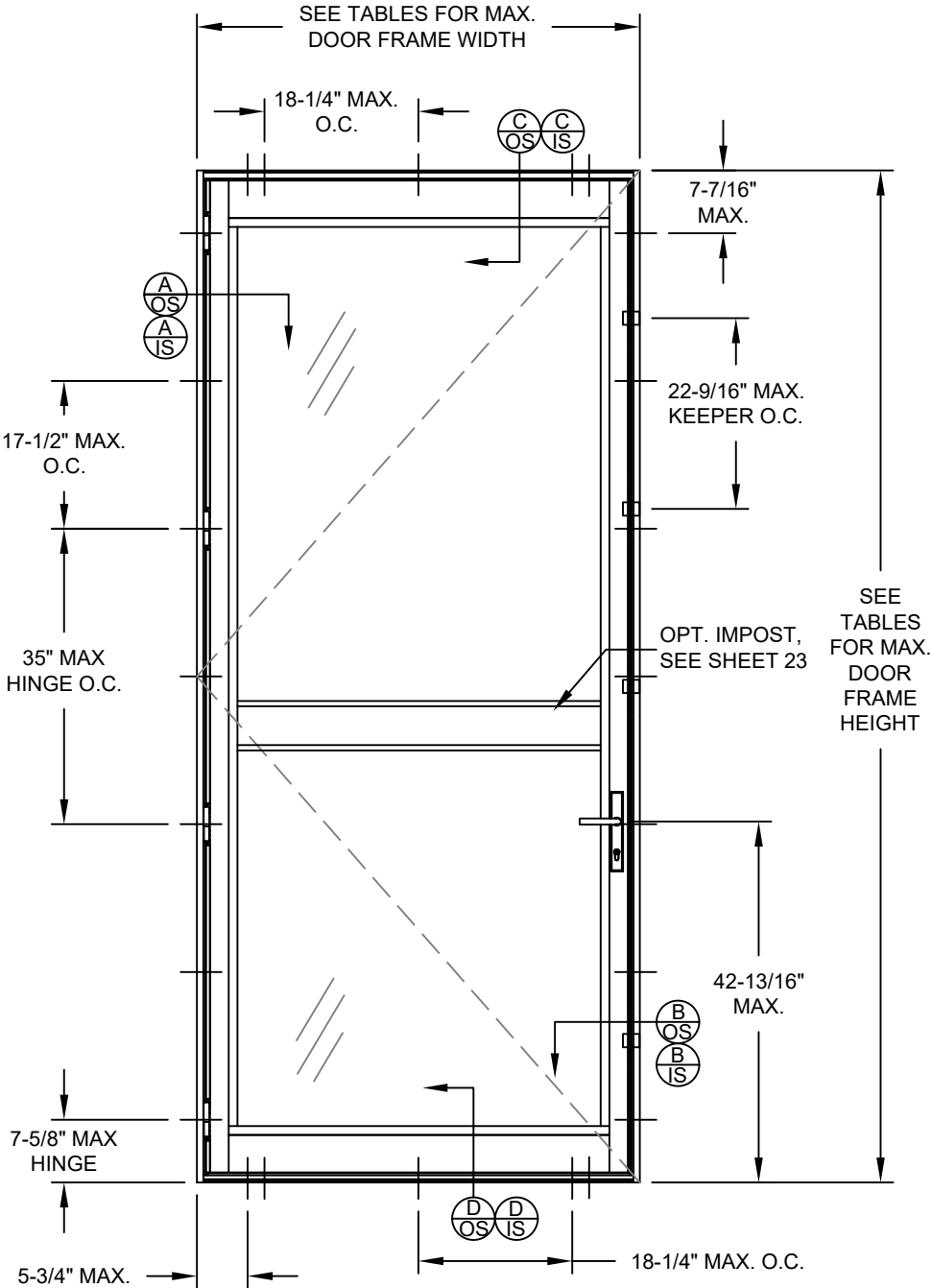
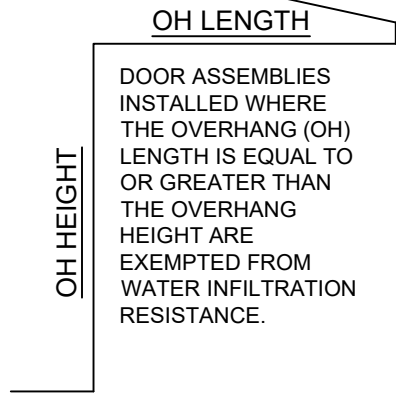
TABLE 11:

Design Pressures (PSF) for Single Doors (X)						
Glass Type: 10 & 11						
Frame Height	Overall (X) Frame Width					
	28"	32"	36"	39-7/16"	42-15/16"	47-1/8"
72"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
80"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
84"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
96"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
108"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -77.8
120"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -77	+70 / -70
132"	+70 / -80	+70 / -73.3	+67.2 / -67.2	+63.1 / -63.1	+57.9 / -57.9	

NOTES:

- 1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 2) SEE SHEET 15 FOR GLASS DESCRIPTIONS.
- 3) DLO WIDTH = FRAME WIDTH - 9-7/16"
- 4) DLO HEIGHT = FRAME HEIGHT - 13-5/8" (STD. THRESHOLD)
- 5) DLO HEIGHT = FRAME HEIGHT - 13-7/16" (LOW PROFILE THRESHOLD)
- 6) INSWING DOORS AND ALL DOORS WITH LOW PROFILE THRESHOLD ARE NOT RATED FOR WATER INFILTRATION. IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIGURE 1, THE (+) DESIGN PRESSURES SHOWN IN THE TABLE MAY BE USED AND BOTH THRESHOLDS ARE ACCEPTABLE.

FIGURE 1:



TYP. ELEVATION

WINDOOR

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

104 TRIPLE DIAMOND BLVD
N. VENICE, FL 34275
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X ELEVATION & DP

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2/29/24

C. KEMPF

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1/29/26
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PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

XX DOORS, INSWING OR OUTSWING WITH STD. OR LOW PROFILE THRESHOLD

TABLE 12:

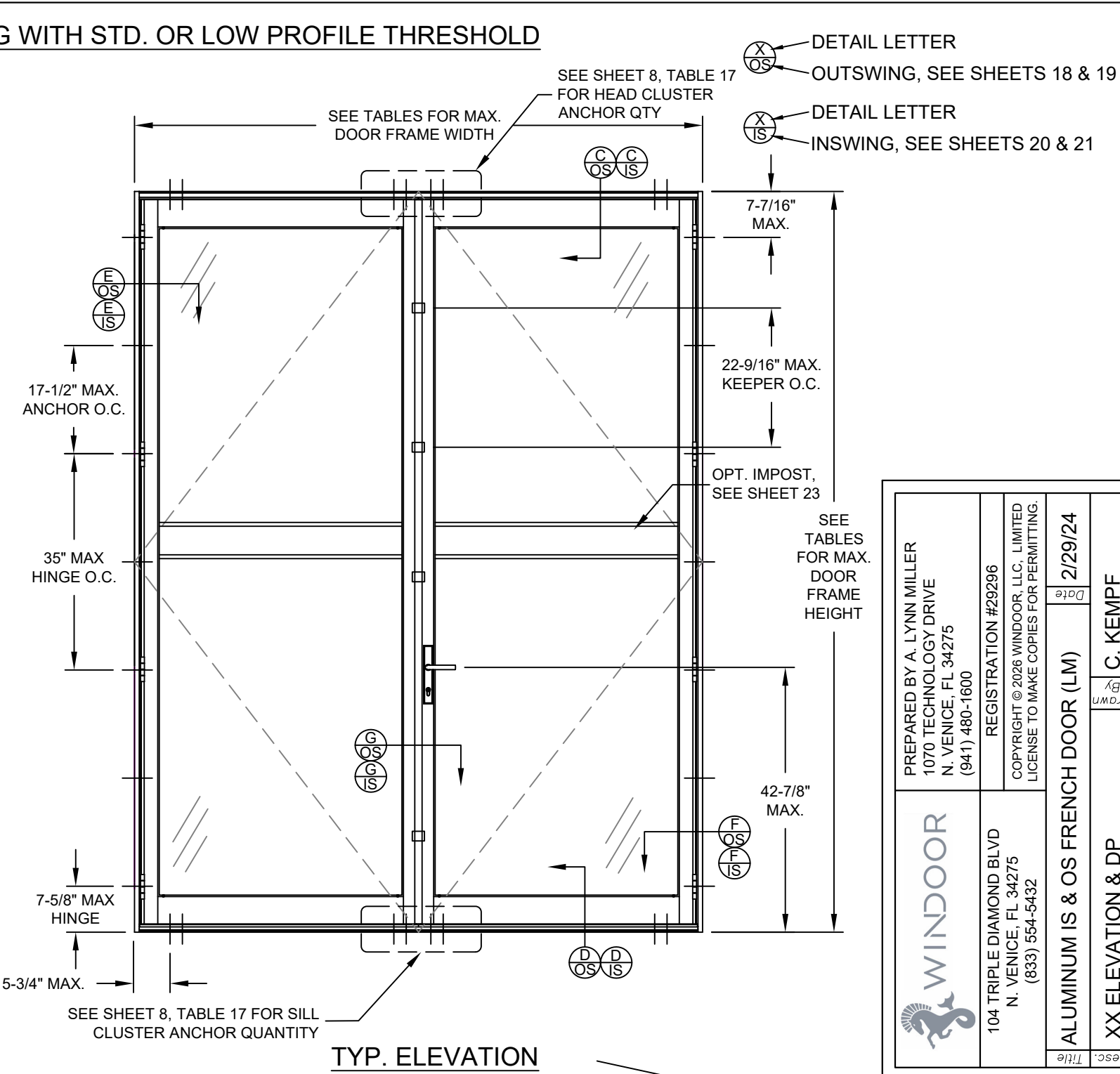
Design Pressures (PSF) for Double Doors (XX)							
Glass Type: 1							
Frame Height	Overall (XX) Frame Width						
	54"	60"	66"	73"	79-5/8"	87-9/16"	92"
72"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
80"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
84"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
96"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
108"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+64.9 / -64.9
114-1/4"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -66.9	+61.6 / -61.6
120"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+64.7 / -64.7	
132"	+65 / -70	+65 / -70	+65 / -70	+65 / -66.3	+60.8 / -60.8		
144"	+65 / -69	+62.1 / -62.1	+56.5 / -56.5	+51.1 / -51.1			

TABLE 13:

Design Pressures (PSF) for Double Doors (XX)							
Glass Type: 2 & 3							
Frame Height	Overall (XX) Frame Width						
	54"	60"	66"	73"	79-5/8"	87-9/16"	92"
72"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
80"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
84"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
96"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
108"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
114-1/4"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -69.7
120"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	
132"	+65 / -70	+65 / -70	+65 / -70	+65 / -66.3	+60.8 / -60.8		
144"	+65 / -69	+62.1 / -62.1	+56.5 / -56.5	+51.1 / -51.1			

TABLE 14:

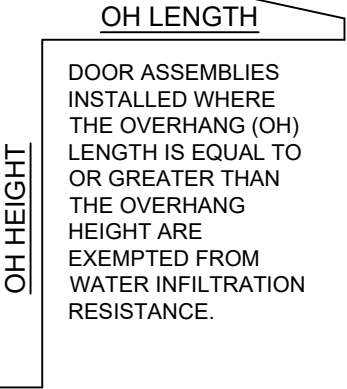
Design Pressures (PSF) for Double Doors (XX)							
Glass Type: 4, 5, & 6							
Frame Height	Overall (XX) Frame Width						
	54"	60"	66"	73"	79-5/8"	87-9/16"	92"
72"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
80"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
84"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
96"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
108"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
114-1/4"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70
120"	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	+65 / -70	
132"	+65 / -70	+65 / -70	+65 / -70	+65 / -66.3	+60.8 / -60.8		
144"	+65 / -69	+62.1 / -62.1	+56.5 / -56.5	+51.1 / -51.1			



NOTES:

- 1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 2) SEE SHEET 15 FOR GLASS DESCRIPTIONS.
- 3) DLO WIDTH = (FRAME WIDTH / 2) - 8-5/16"
- 4) DLO HEIGHT = FRAME HEIGHT - 13-5/8" (STD. THRESHOLD)
- 5) DLO HEIGHT = FRAME HEIGHT - 13-7/16" (LOW PROFILE THRESHOLD)
- 6) INSWING DOORS AND ALL DOORS WITH LOW PROFILE THRESHOLD ARE NOT RATED FOR WATER INFILTRATION. IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIGURE 1, THE (+) DESIGN PRESSURES SHOWN IN THE TABLE MAY BE USED AND BOTH THRESHOLDS ARE ACCEPTABLE.

FIGURE 1:



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XX ELEVATION & DP

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FD9950LMI - FPA

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LICENSE
No. 58705
1/29/26
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

Rev. #

1/29/26

Date

ADDED OPT. IMPOST - CK

Rev.

XX DOORS, INSWING OR OUTSWING WITH STD. OR LOW PROFILE THRESHOLD

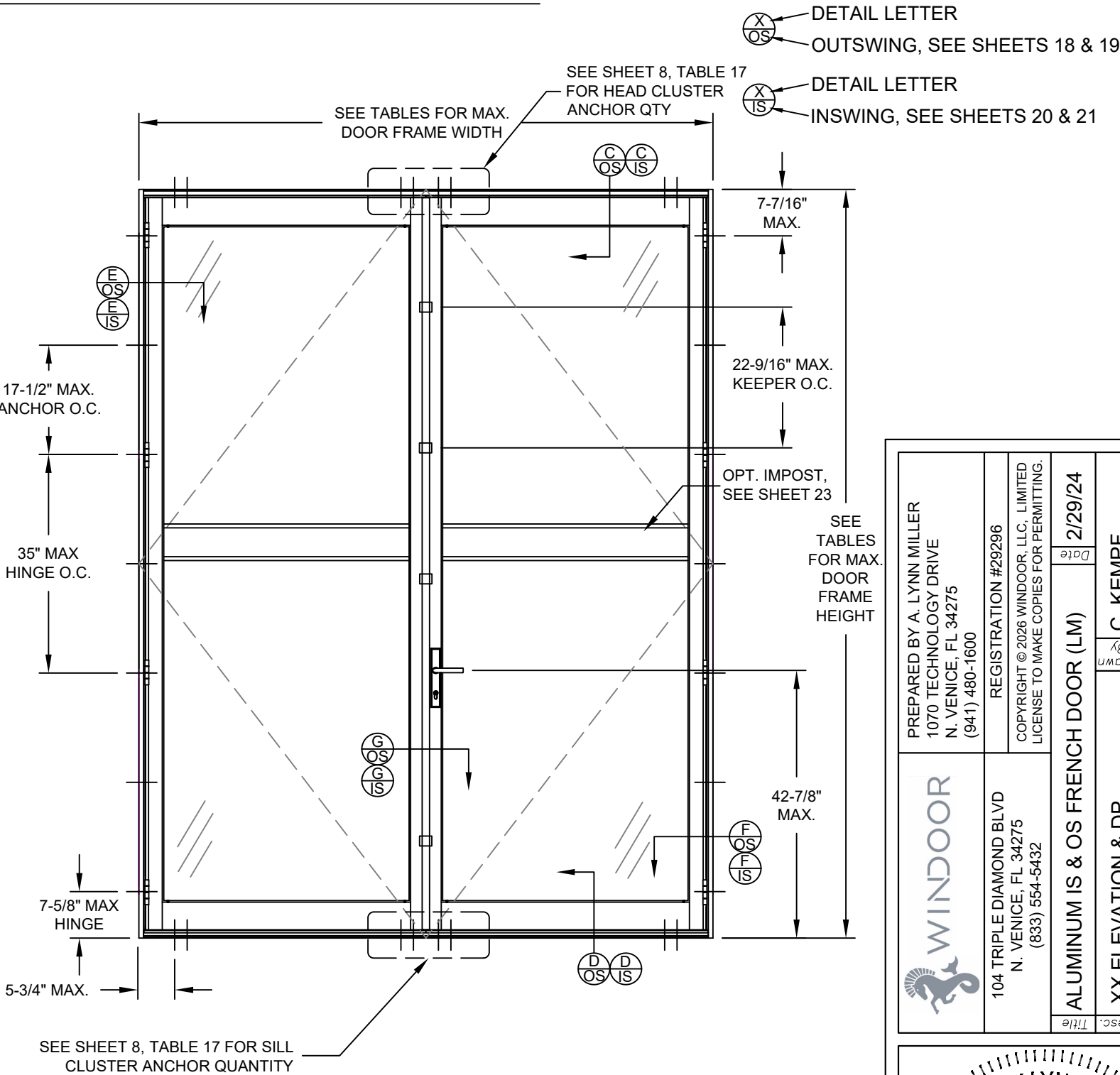
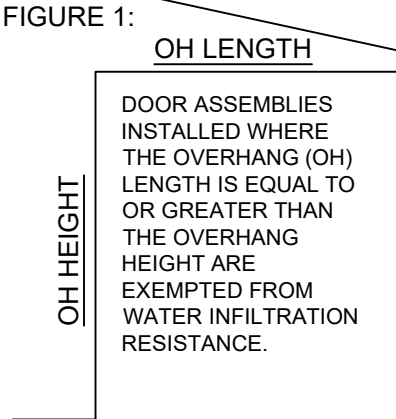
TABLE 15:

Design Pressures (PSF) for Double Doors (XX)							
Glass Type: 7, 8, & 9							
Frame Height	Overall (XX) Frame Width						
	54"	60"	66"	72"	76-5/8"	83-5/8"	92"
72"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
80"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
84"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
96"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
108"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -77.8
120"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -77	+70 / -70
132"	+70 / -80	+70 / -80	+70 / -73.3	+67.2 / -67.2	+63.1 / -63.1	+57.9 / -57.9	
144"	+69 / -69	+62.1 / -62.1	+56.5 / -56.5	+51.8 / -51.8	+48.6 / -48.6		

TABLE 16:

Design Pressures (PSF) for Double Doors (XX)							
Glass Type: 10 & 11							
Frame Height	Overall (XX) Frame Width						
	54"	60"	66"	72"	76-5/8"	83-5/8"	92"
72"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
80"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
84"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
96"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80
108"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -77.8
120"	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -80	+70 / -77	+70 / -70
132"	+70 / -80	+70 / -80	+70 / -73.3	+67.2 / -67.2	+63.1 / -63.1	+57.9 / -57.9	

- NOTES:
- 1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
 - 2) SEE SHEET 15 FOR GLASS DESCRIPTIONS.
 - 3) DLO WIDTH = (FRAME WIDTH / 2) - 8-5/16"
 - 4) DLO HEIGHT = FRAME HEIGHT - 13-5/8" (STD. THRESHOLD)
 - 5) DLO HEIGHT = FRAME HEIGHT - 13-7/16" (LOW PROFILE THRESHOLD)
 - 6) INSWING DOORS AND ALL DOORS WITH LOW PROFILE THRESHOLD ARE NOT RATED FOR WATER INFILTRATION. IF WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR OVERHANG IS PER FIGURE 1, THE (+) DESIGN PRESSURES SHOWN IN THE TABLE MAY BE USED AND BOTH THRESHOLDS ARE ACCEPTABLE.



TYP. ELEVATION

PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
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ALUMINUM IS & OS FRENCH DOOR (LM)

XX ELEVATION & DP

2/29/24

C. KEMPF

FD9950A

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ANTHONY LYNN MILLER
LICENSE
No. 58705
1/29/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

TABLE 17:

Min. Quantity of Cluster Anchors @ Head & Sill, XX									
All Glass Types									
Frame Height	Frame Location	Anchor Group	Frame Width						
			54"	60"	66"	72"	76-5/8"	83-5/8"	92"
72"	Head	A	2	2	2	3	3	3	3
	Sill		2	2	2	3	3	3	3
	Head	B	2	3	3	3	3	3	4
	Sill		2	3	3	3	3	3	4
	Head	C	2	2	3	3	3	3	4
	Sill		2	2	3	3	3	3	4
	Head	D	2	2	2	3	3	3	3
	Sill		2	2	2	3	3	3	3
80"	Head	A	2	2	3	3	3	3	4
	Sill		2	2	3	3	3	3	4
	Head	B	3	3	3	3	3	4	4
	Sill		3	3	3	3	3	4	4
	Head	C	2	3	3	3	3	4	4
	Sill		2	3	3	3	3	4	4
	Head	D	2	2	3	3	3	3	4
	Sill		2	2	3	3	3	3	4
84"	Head	A	2	3	3	3	3	3	4
	Sill		2	3	3	3	3	3	4
	Head	B	3	3	3	3	4	4	4
	Sill		3	3	3	3	4	4	4
	Head	C	3	3	3	3	3	4	4
	Sill		3	3	3	3	3	4	4
	Head	D	2	3	3	3	3	3	4
	Sill		2	3	3	3	3	3	4
96"	Head	A	3	3	3	3	4	4	4
	Sill		3	3	3	3	4	4	4
	Head	B	3	3	3	4	4	4	5
	Sill		3	3	3	4	4	4	5
	Head	C	3	3	3	4	4	4	5
	Sill		3	3	3	4	4	4	5
	Head	D	3	3	3	3	4	4	4
	Sill		3	3	3	3	4	4	4

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

2) HEAD AND SILL ANCHOR QUANTITIES ARE FOR DOUBLE DOOR (XX) ANCHOR CLUSTERS ONLY.

TABLE 17 cont.:

Frame Height	Frame Location	Anchor Group	Frame Width						
			54"	60"	66"	72"	76-5/8"	83-5/8"	92"
108"	Head	A	3	3	3	4	4	4	4
	Sill		3	3	3	4	4	4	4
	Head	B	3	4	4	4	4	5	5
	Sill		3	4	4	4	4	5	5
	Head	C	3	3	4	4	4	5	5
	Sill		3	3	4	4	4	5	5
	Head	D	3	3	3	4	4	4	4
	Sill		3	3	3	4	4	4	4
120"	Head	A	3	3	4	4	4	4	4
	Sill		3	3	4	4	4	4	4
	Head	B	4	4	4	5	5	5	5
	Sill		4	4	4	5	5	5	5
	Head	C	3	4	4	4	5	5	5
	Sill		3	4	4	4	5	5	5
	Head	D	3	3	4	4	4	4	4
	Sill		3	3	4	4	4	4	4
132"	Head	A	3	4	4	4	4	4	
	Sill		3	4	4	4	4	4	
	Head	B	4	4	4	4	4	4	
	Sill		4	4	4	4	4	4	
	Head	C	4	4	4	4	4	4	
	Sill		4	4	4	4	4	4	
	Head	D	3	4	4	4	4	4	
	Sill		3	4	4	4	4	4	
144"	Head	A	3	3	3	3	3		
	Sill		3	3	3	3	3		
	Head	B	4	4	4	4	4		
	Sill		4	4	4	4	4		
	Head	C	4	4	4	4	4		
	Sill		4	4	4	4	4		
	Head	D	3	3	3	3	3		
	Sill		3	3	3	3	3		

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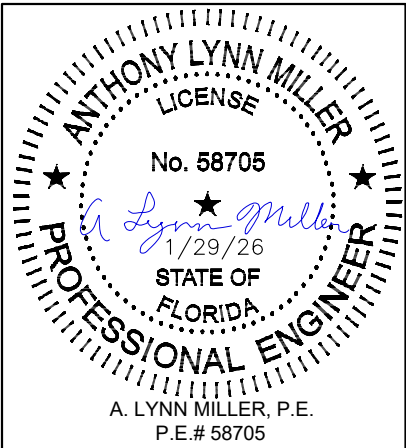
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2/29/24

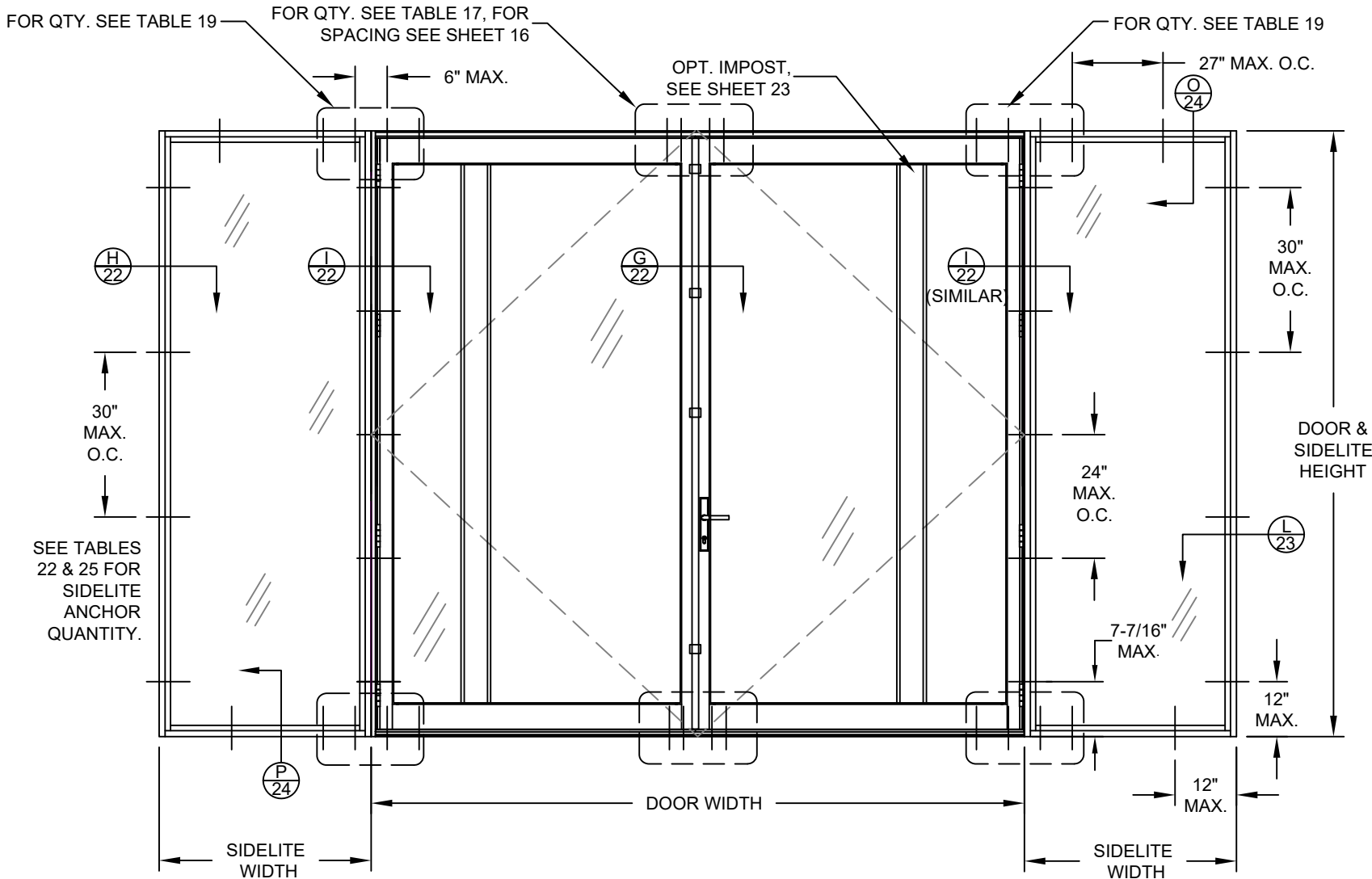
ANCHOR CLUSTER QUANTITY
C. KEMPF

FD9950A

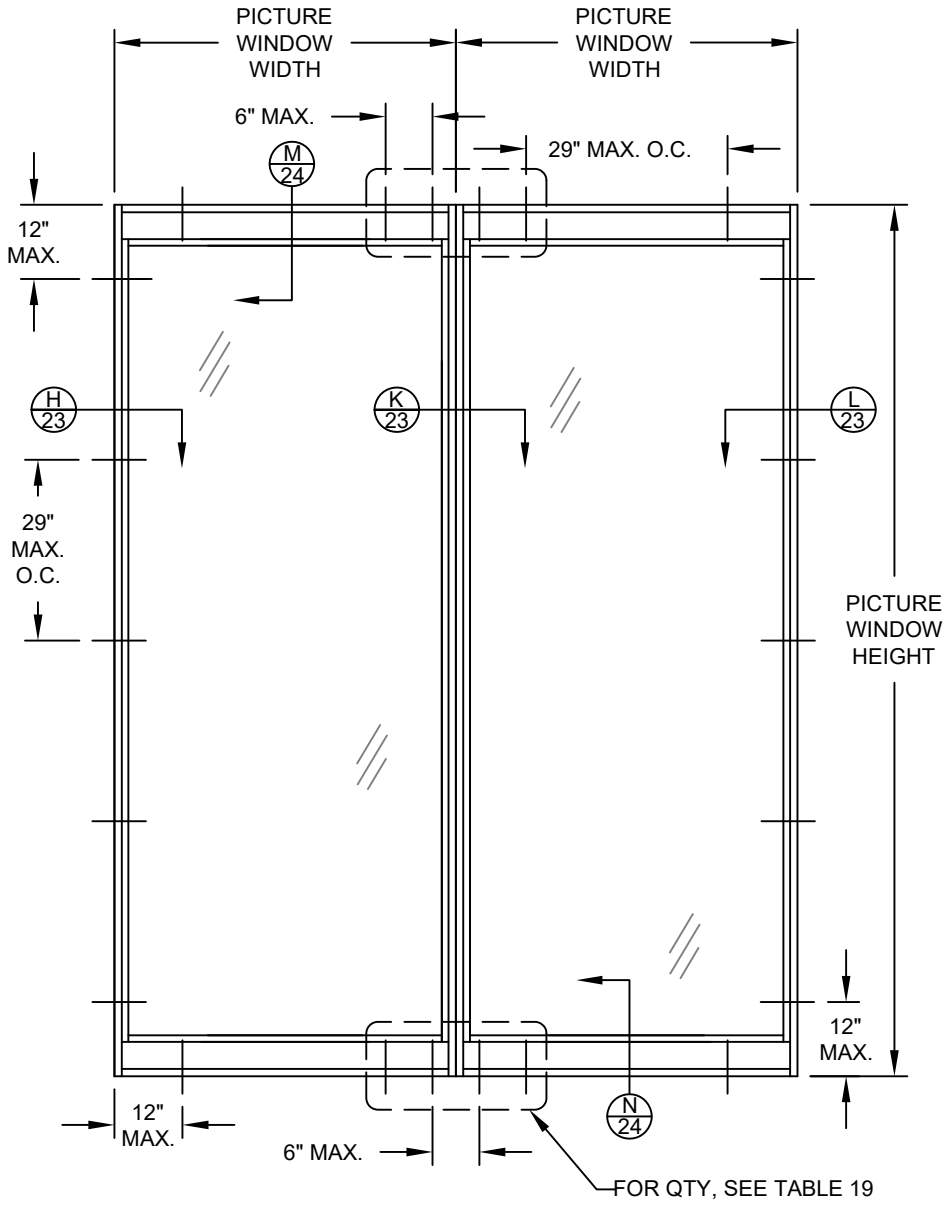
8 OF 25

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DOOR WITH LEFT & RIGHT SIDELITE, OXXO

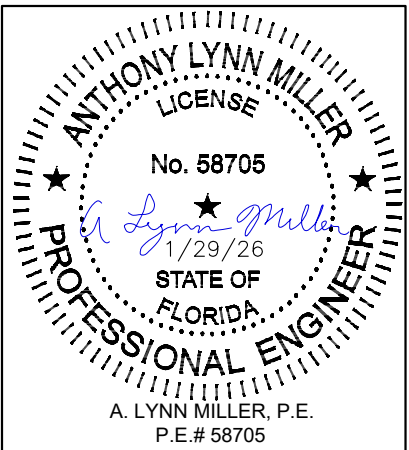


VERTICALLY MULLED PICTURE WINDOWS OJO

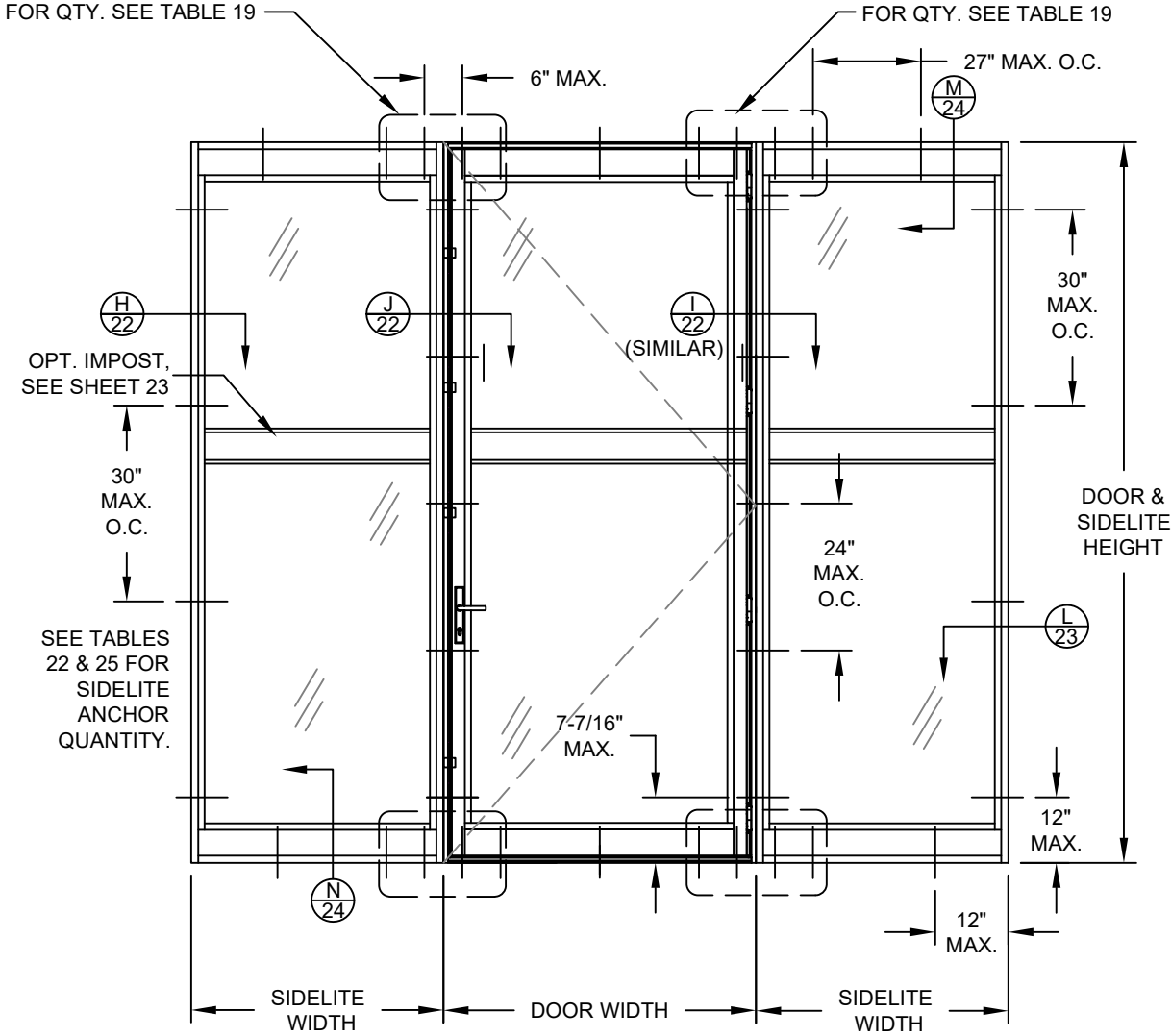
SHOWN WITH OPTIONAL WIDE TOP/BOTTOM RAILS

- NOTES:
- 1) WINDOWS ARE RATED FOR A WATER TEST PRESSURE THAT IS 15% OF THE POSITIVE DESIGN PRESSURE LISTED IN THE DP TABLES.
 - 2) TWO MULLED UNITS SHOWN, MAY BE UNLIMITED UNITS.
 - 3) PICTURE WINDOW/SIDELITE MAY HAVE NARROW OR WIDE STILES.
 - 4) THE FIXED MULLION IS ONLY AVAILABLE WITH THE NARROW STILE.
 - 5) SINGLE, STAND-ALONE PICTURE WINDOWS ARE ALSO QUALIFIED.

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SIDELITE ELEVATIONS		C. KEMPF	
FD9950A		9 OF 25	
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Rev. #	1/29/26	E
Date		
ADDED OPT. IMPOST - CK		



DOOR WITH LEFT & RIGHT SIDELITE, OXO

TABLE 18:

Vertical Mullion Design Pressure (lbs/ft ²)							
Mullion Length (Door Height)	Opening Width (Both Units) - See Note 1						
	72"	84"	96"	114"	120"	132"	144"
72"	+/-75	+/-75	+/-75	+/-75	+/-75	+/-75	+/-75
80"	+/-75	+/-75	+/-75	+/-75	+/-75	+/-75	+/-75
84"	+/-75	+/-75	+/-75	+/-75	+/-75	+/-75	+/-75
96"	+/-75	+/-75	+/-75	+/-75	+/-75	+/-73.1	
108"	+/-75	+/-75	+/-70.6	+/-65	+/-56.5		
120"	+/-68.6	+/-65	+/-65	+/-65			
132"	+/-51.6	+/-44.2	+/-38.7				
144"	+/-39.7	+/-34					

TABLE 19:

Cluster Anchors Required at Each Vertical Mullion End								
Mullion Length (Door Height)	Anchor Group	Opening Width (Both Units) - See Note 1						
		72"	84"	96"	114"	120"	132"	144"
72"	A	3	4	4	5	5	5	6
	B	3	3	4	4	4	5	5
	C	3	3	3	4	4	5	5
	D	2	2	3	3	3	3	4
80"	A	3	4	4	5	5	6	6
	B	3	3	4	5	5	5	6
	C	3	3	4	4	5	5	5
	D	2	3	3	3	3	4	4
84"	A	4	4	5	5	6	6	7
	B	3	4	4	5	5	5	6
	C	3	4	4	5	5	5	6
	D	2	3	3	3	4	4	4
96"	A	4	5	5	6	6	7	
	B	4	4	5	5	6	6	
	C	3	4	4	5	5	6	
	D	3	3	3	4	4	4	
108"	A	4	5	5	6	5		
	B	4	4	5	5	5		
	C	4	4	5	5	5		
	D	3	3	3	4	3		
120"	A	5	5	6	6			
	B	4	4	5	6			
	C	4	4	5	6			
	D	3	3	3	4			
132"	A	4	4	4				
	B	3	3	3				
	C	3	3	3				
	D	2	2	2				
144"	A	3	3					
	B	3	3					
	C	3	3					
	D	2	2					

NOTES:

- 1) FOR OXO AND SIMILAR CONFIGURATIONS CONTAINING A DOUBLE DOOR (XX), USE ONLY HALF OF THE FRAME WIDTH OF THE DOUBLE DOOR WHEN USING TABLES 18 AND 19.
- 2) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 3) PICTURE WINDOW/SIDELITE MAY HAVE NARROW OR WIDE RAILS.
- 4) THE FIXED MULLION IS ONLY AVAILABLE WITH THE NARROW STILE.

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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ALUMINUM IS & OS FRENCH DOOR (LM)

2/29/24

SL ELEVATION & MULL TABLES

C. KEMPf

10 OF 25

FD9950A

FD9950LMI - FPA

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LICENSE
No. 58705
1/29/26
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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

Rev. #

1/29/26

Date

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NOTE 1 - CK

Rev.

TABLE 20:

Picture Window, Sidelite or Transom Design Pressure (lbs/ft²), Glass Types 7 & 8												
Long Side Length	Short Side Length											
	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	90"	
30"	+60/-75											
36"	+60/-75	+60/-75										
42"	+60/-75	+60/-75	+60/-75									
48"	+60/-75	+60/-75	+60/-75	+60/-75								
54"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75							
60"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75						
66"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75					
72"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75				
78"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75			
84"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75		
90"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-74.1	+60/-73.1	+60/-72.8	
96"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-72.8	+60/-70.7	+60/-69.3	+60/-68.5	
102"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-73.4	+60/-70.3	+60/-68	+60/-66.3		
108"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-71.5	+60/-68.3	+60/-65.7			
114"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-74.1	+60/-69.9	+60/-66.5				
120"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-72.8	+60/-68.5	+60/-65				
126"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-71.7	+60/-67.2					
132"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-70.7						
138"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-75	+60/-69.8						
144"	+60/-75	+60/-75	+60/-75	+60/-75	+60/-74.7	+60/-69						

SEE TABLE 22 FOR ANCHOR QUANTITIES REQUIRED.

TABLE 21:

Anchor Group	Anchor Type	Frame Member	Substrate	Min. Edge Distance	Min. O.C. Distance	Min. Embedment or Metal Thickness
A	#12 Steel SMS (Gr. 5) or 18-8 SS SMS	All	Southern Pine (SG = 0.55)	9/16"	1"	1-3/8"
			6063-T5 Aluminum	3/8"	1"	0.071"
			A36 Steel	3/8"	1"	.050"
			Steel Stud, Gr. 33	3/8"	1"	0.045" (18 Ga)
	1/4" DeWalt UltraCon+	All	Concrete (min. 3.0 ksi)	1-5/16"	4"	1-3/8"
			Southern Pine (SG = 0.55)	1"	1"	1-3/8"
	1/4" 410 SS Elco CreteFlex	All	Concrete (min. 3.35 ksi)	1"	4"	1-3/4"
			Southern Pine (SG = 0.55)	1"	1"	1-3/8"
B	1/4" DeWalt UltraCon+	Head/Sill	Concrete (min. 3.0 ksi)	1-5/16"	4"	1-3/8"
		Jamb	Hollow or Grout-filled CMU (ASTM C90)	1"	3"	1-1/4"
C	1/4" DeWalt UltraCon+	All	Concrete (min. 3.0 ksi)	1-7/8"	4"	1-3/8"
	1/4" 410 SS Elco CreteFlex	All	Concrete (min. 3.35 ksi)	1-3/4"	4"	1-3/4"
D	1/4" DeWalt UltraCon+	Head/Sill	Concrete (min. 3.0 ksi)	1-7/8"	4"	1-3/8"
		Jamb	Hollow or Grout-filled CMU (ASTM C90)	2-1/2"	6"	1-1/4"
	1/4" 410 SS Elco CreteFlex	Head/Sill	Concrete (min. 3.35 ksi)	1-3/4"	4"	1-3/4"
		Jamb	Hollow or Grout-filled CMU (ASTM C90)	1-3/4"	6"	1-1/4"

SEE NOTE 2 THIS SHEET.

NOTES:

- 1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.
- 2) THE ANCHOR TABLE BELOW IS FOR PICTURE WINDOW/SIDELITE ANCHORS ONLY. REFER TO SHEET 1 FOR DOOR AND MULLION ANCHORS AND ANCHOR NOTES.

 WINDOOR		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	
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ALUMINUM IS & OS FRENCH DOOR (LM)		Date	2/29/24
SL DP TABLES & ANCHORS		By	C. KEMPF
FD9950A		FD9950LMI - FPA	
Sheet		DWG No.	
11 OF 25			
Series		Desc.	
Title			

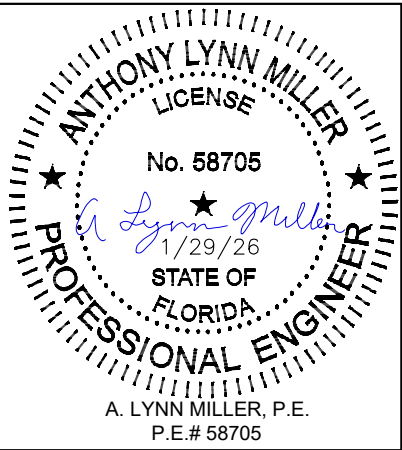


TABLE 22:

Picture Window, Sidelite or Transom Anchor Quantities, Glass Types 7 & 8																																													
Long Side Length	Anchor Location on Frame	Short Side Length / Anchor Group																																											
		30"				36"				42"				48"				54"				60"				66"				72"				78"				84"				90"			
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D								
30"	Long Side	2	2	2	2																																								
	Short Side	2	2	2	2																																								
36"	Long Side	2	2	2	2	2	2	2	2																																				
	Short Side	2	2	2	2	2	2	2	2																																				
42"	Long Side	2	2	2	2	2	2	2	2	2	2	2	2	2																															
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2																															
48"	Long Side	2	2	2	2	2	3	2	2	2	3	2	2	2	3	2	2																												
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2																												
54"	Long Side	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2																								
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2																								
60"	Long Side	3	3	3	3	3	3	3	3	3	4	3	3	3	4	3	3	3	4	3	3	3	4	3	3																				
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3																				
66"	Long Side	3	3	3	3	3	4	3	3	3	4	3	3	3	4	3	3	3	4	3	3	3	5	3	3	3	5	3	3																
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	5	3	3																
72"	Long Side	3	4	3	3	3	4	3	3	3	4	3	3	3	5	3	3	3	5	3	3	4	5	3	3	4	5	3	3	4	5	3	3												
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	5	3	3	4	5	3	3	4	5	3	3								
78"	Long Side	3	4	3	3	3	5	3	3	3	5	3	3	4	5	3	3	4	6	3	3	4	6	3	3	4	6	3	3	4	6	3	3	4	6	3	4								
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	5	3	3	4	5	3	3	4	5	3	3	4	6	3	4				
84"	Long Side	3	4	3	3	3	5	3	3	4	5	3	3	4	6	3	3	4	6	3	4	4	7	3	4	5	7	3	4	5	7	3	4	5	7	3	4	5	7	3	4				
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	5	3	3	4	5	3	3	4	6	3	4	5	7	3	4				
90"	Long Side	4	5	4	4	4	5	4	4	4	6	4	4	4	6	4	4	5	7	4	4	5	7	4	4	5	8	4	4	5	8	4	4	5	8	4	4	5	8	4	4	5	8	4	4
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	5	3	3	4	5	3	3	4	6	3	3	5	7	3	4	5	8	4	4
96"	Long Side	4	5	4	4	4	6	4	4	4	6	4	4	5	7	4	4	5	7	4	4	5	8	4	4	6	8	4	5	6	8	4	5	6	8	4	5	6	8	4	5	6	8	4	5
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	5	3	3	4	5	3	3	4	6	3	3	4	7	3	4	5	7	4	4
102"	Long Side	4	5	4	4	4	6	4	4	5	7	4	4	5	7	4	4	5	8	4	4	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5				
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	4	3	3	3	5	3	3	4	6	3	3	4	6	3	4				
108"	Long Side	4	6	4	4	4	7	4	4	5	7	4	4	5	8	4	4	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5								
	Short Side	5	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	4	3	3	3	5	3	3	4	5	3	3								
114"	Long Side	4	6	4	4	5	7	4	4	5	8	4	4	6	9	4	5	6	9	4	5	7	10	5	5	7	10	5	5	7	10	5	5												
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	4	3	3	3	5	3	3												
120"	Long Side	5	6	5	5	5	7	5	5	6	8	5	5	6	9	5	5	7	10	5	5	7	10	5	6	7	10	5	6	7	10	5	6												
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	4	3	3	3	5	3	3												
126"	Long Side	5	7	5	5	5	8	5	5	6	9	5	5	7	10	5	5	7	10	5	6	7	11	5	6	7	11	5	6																
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3	3	4	3	3																
132"	Long Side	5	7	5	5	6	8	5	5	6	9	5	5	7	10	5	6	7	11	5	6	8	11	5	6																				
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3																				
138"	Long Side	5	7	5	5	6	9	5	5	7	10	5	5	7	11	5	6	8	12	6	6	8	12	6	6																				
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	2	3	2	2	3	4	3	3																				
144"	Long Side	5	8	5	5	6	9	5	5	7	10	5	6	8	11	5	6	8	12	6	7	8	12	6	7																				
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	3	3	3																				

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

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	104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		ALUMINUM IS & OS FRENCH DOOR (LM)		
	SL ANCHOR QTY.		C. KEMPF		
FD9950A		12 OF 25		FD9950LMI - FPA	

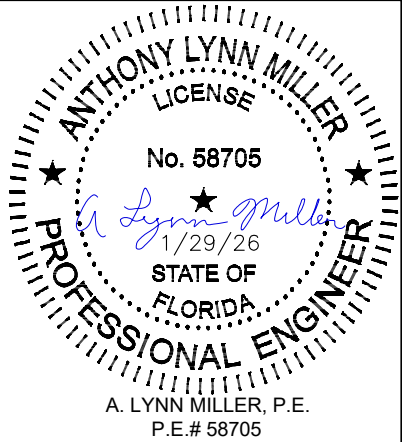


TABLE 23:

Picture Window, Sidelite or Transom Design Pressure (lbs/ft²), Glass Type 10 & 11									
Long Side Length	Short Side Length								
	30"	36"	42"	48"	54"	60"	62-1/4"	66"	72"
30"	+80/-90								
36"	+80/-90	+80/-90							
42"	+80/-90	+80/-90	+80/-90						
48"	+80/-90	+80/-90	+80/-90	+80/-90					
54"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90				
60"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90			
62-1/4"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90		
66"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	
72"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90
78"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90
84"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90
90"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+79.3/-90	+76.8/-90
96"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+78.8/-90	+76.6/-90	
102"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+78.3/-90	+76.7/-90		
108"	+80/-90	+80/-90	+80/-87.8	+80/-86.7	+80/-88.7	+76.5/-86.6			
114"	+80/-90	+80/-90	+80/-82.2	+80/-80.3	+80/-81.5				
120"	+80/-90	+80/-90	+/-78.6	+/-75.1	+/-76.7				
126-7/8"	+80/-90	+80/-90	+/-75	+/-68.9					

SEE TABLE 25 FOR ANCHOR QUANTITIES REQUIRED.

TABLE 24:

Picture Window, Sidelite or Transom Design Pressure (lbs/ft²), Glass Types 12 & 13									
Long Side Length	Short Side Length								
	30"	36"	42"	48"	54"	60"	62-1/4"	66"	72"
30"	+80/-90								
36"	+80/-90	+80/-90							
42"	+80/-90	+80/-90	+80/-90						
48"	+80/-90	+80/-90	+80/-90	+80/-90					
54"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90				
60"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90			
62-1/4"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90		
66"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	
72"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90
78"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90
84"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90
90"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90
96"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90
102"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+79.2/-89.1
108"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	
114"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90		
120"	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90	+80/-90		
126-7/8"	+80/-90	+80/-90	+80/-90	+80/-86.7	+80/-82.5				

SEE TABLE 25 FOR ANCHOR QUANTITIES REQUIRED.

NOTES:

1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

WINDOOR



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

104 TRIPLE DIAMOND BLVD
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SL DP TABLES

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13 OF 25

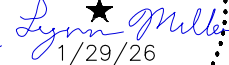
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LICENSE

No. 58705



1/29/26

STATE OF FLORIDA

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

Rev. #

1/29/26

Date

NO CHANGES THIS SHEET

Rev.

E

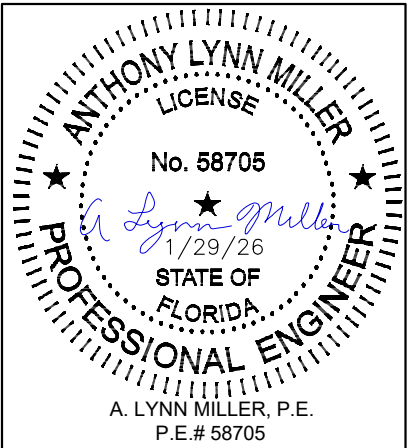
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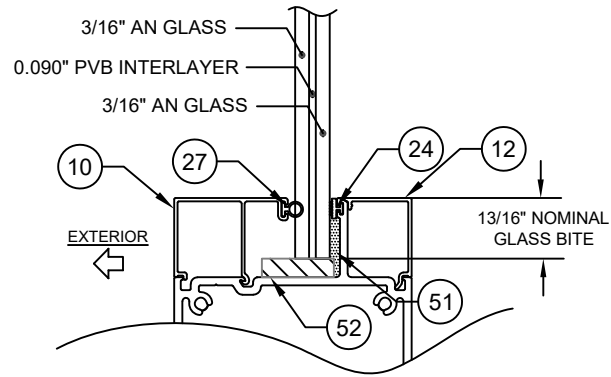
Picture Window, Sidelite or Transom Anchor Quantities, Glass Types 10, 11, 12, & 13																																					
Long Side Length	Anchor Location on Frame	Short Side Length / Anchor Group																																			
		30"				36"				42"				48"				54"				60"				62-1/4"				66"				72"			
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D				
30"	Long Side	2	2	2	2																																
	Short Side	2	2	2	2																																
36"	Long Side	2	2	2	2	2	2	2	2																												
	Short Side	2	2	2	2	2	2	2	2																												
42"	Long Side	2	2	2	2	2	2	2	2	2	2	2	2																								
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2																								
48"	Long Side	2	3	2	2	2	3	2	2	2	3	2	2	2	3	2	2																				
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2																				
54"	Long Side	2	3	2	2	2	3	2	2	3	4	2	2	3	4	2	2	3	4	2	2																
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2																
60"	Long Side	3	4	3	3	3	4	3	3	3	4	3	3	3	4	3	3	3	4	3	3	3	5	3	3												
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	3	3												
62-1/4"	Long Side	3	4	3	3	3	4	3	3	3	4	3	3	3	5	3	3	3	5	3	3	3	5	3	3	3	5	3	3								
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	3	3	3	5	3	3								
66"	Long Side	3	4	3	3	3	4	3	3	3	5	3	3	3	5	3	3	4	5	3	3	4	5	3	3	4	5	3	3	4	5	3	3				
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	3	3	3	5	3	3	4	5	3	3				
72"	Long Side	3	4	3	3	3	5	3	3	4	5	3	3	4	6	3	3	4	6	3	3	4	6	3	3	4	6	3	4	4	6	3	4	4	6	3	4
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	3	3	3	5	3	3	4	5	3	3	4	6	3	4
78"	Long Side	3	5	3	3	4	5	3	3	4	6	3	3	4	6	3	4	5	7	3	4	5	7	3	4	5	7	3	4	5	7	3	4	5	7	4	4
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	3	3	3	5	3	3	4	5	3	3	4	6	3	4
84"	Long Side	4	5	3	3	4	6	3	3	4	6	3	4	5	7	3	4	5	7	4	4	5	8	4	4	5	8	4	4	5	8	4	4	6	8	4	5
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	3	3	3	5	3	3	4	5	3	3	4	6	3	4
90"	Long Side	4	6	4	4	4	6	4	4	5	7	4	4	5	8	4	4	6	8	4	5	6	9	4	5	6	9	4	5	6	9	4	5	6	9	4	5
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	3	3	3	5	3	3	4	5	3	3	4	6	3	4
96"	Long Side	4	6	4	4	5	7	4	4	5	8	4	4	6	8	4	5	6	9	4	5	6	9	4	5	6	10	5	5	7	10	5	5	7	10	5	6
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	3	3	3	5	3	3	4	5	3	3	4	6	3	4
102"	Long Side	4	6	4	4	5	7	4	4	6	8	4	5	6	9	4	5	6	10	5	5	7	10	5	6	7	10	5	6	7	11	5	6	7	11	5	6
	Short Side	5	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	3	3	3	5	3	3	4	5	3	3	4	6	3	4
108"	Long Side	5	7	4	4	5	8	4	4	6	9	4	5	6	9	5	5	7	10	5	6	7	11	5	6	8	11	5	6								
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	3	3	3	5	3	3	4	5	3	3				
114"	Long Side	5	7	4	4	6	8	4	5	6	9	4	5	7	10	5	6	7	11	5	6	8	12	6	6	8	12	6	7								
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	3	3	3	5	3	3								
120"	Long Side	5	8	5	5	6	9	5	5	7	10	5	5	7	11	5	6	8	12	6	6	8	13	6	7	9	13	6	7								
	Short Side	2	2	2	2	2	2	2	2	2	2	2	2	2	3	2	2	3	4	2	2	3	5	3	3	3	5	3	3								
126-7/8"	Long Side	5	8	5	5	6	9	5	5	7	10	5	6	8	11	5	6	8	12	5	6																
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NOTES:

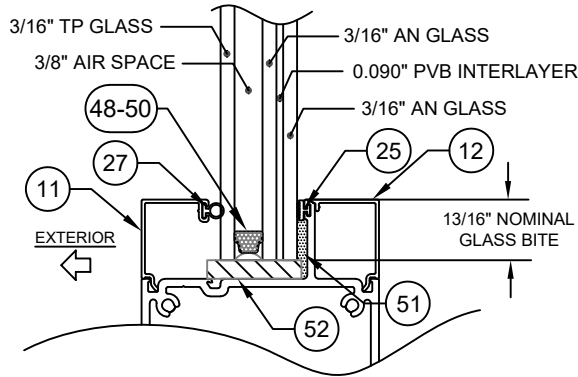
1) FOR SIZES NOT SHOWN, ROUND UP TO THE NEXT AVAILABLE WIDTH OR HEIGHT DIMENSION SHOWN ON THE TABLE.

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	104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		ALUMINUM IS & OS FRENCH DOOR (LM)		By					
	SL ANCHOR QTY.		14 OF 25		Sheet					
FD9950A		No.		DWG		Title		Series		

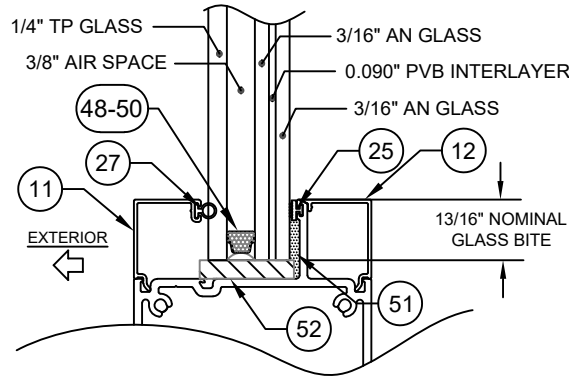




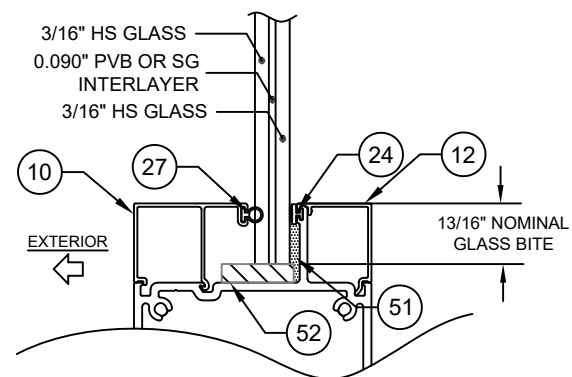
GLASS TYPE 1
7/16" NOM. GLASS STACK



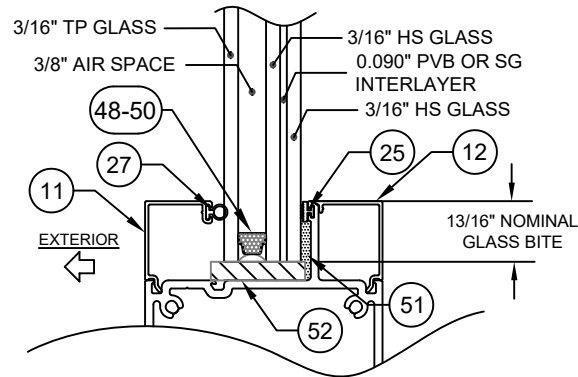
GLASS TYPE 2
1" NOM. GLASS STACK



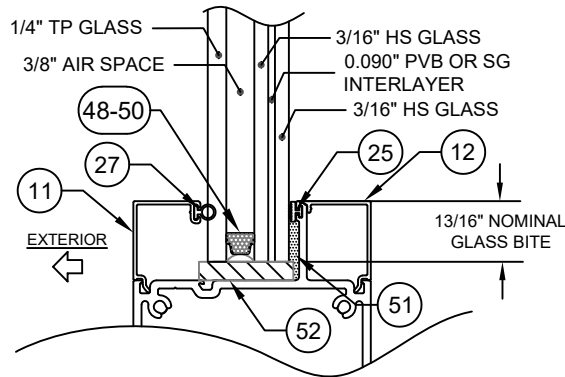
GLASS TYPE 3
1-1/16" NOM. GLASS STACK



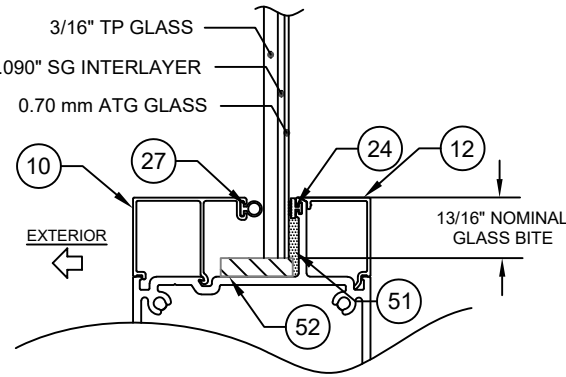
GLASS TYPE 4 (WITH PVB)
GLASS TYPE 7 (WITH SG)
7/16" NOM. GLASS STACK



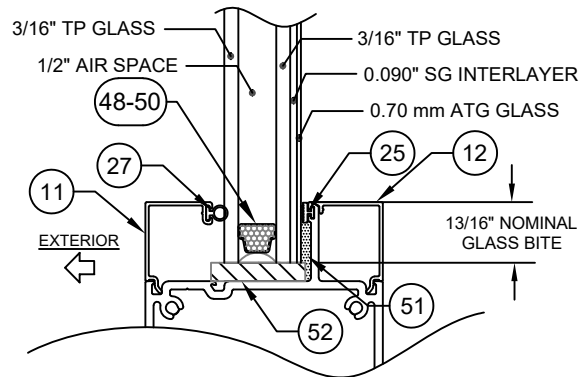
GLASS TYPE 5 (WITH PVB)
GLASS TYPE 8 (WITH SG)
1" NOM. GLASS STACK



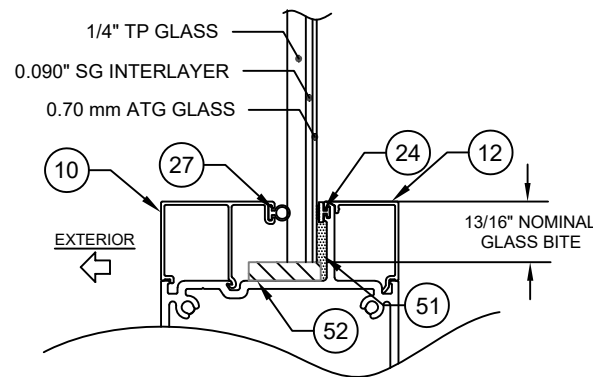
GLASS TYPE 6 (WITH PVB)
GLASS TYPE 9 (WITH SG)
1-1/16" NOM. GLASS STACK



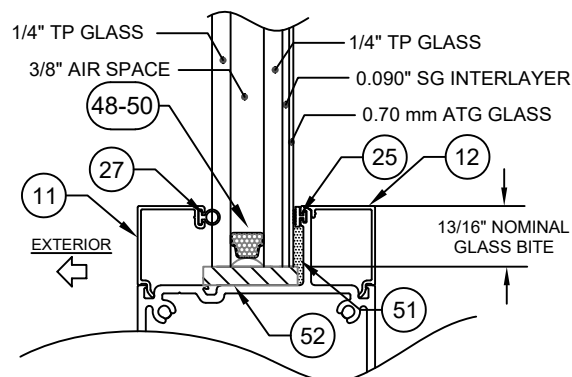
GLASS TYPE 10
5/16" NOM. GLASS STACK



GLASS TYPE 11
1" NOM. GLASS STACK



GLASS TYPE 12
3/8" NOM. GLASS STACK



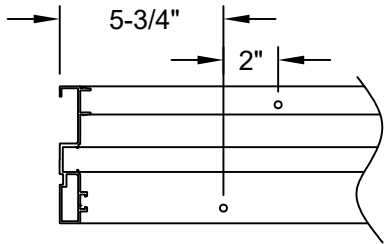
GLASS TYPE 13
1" NOM. GLASS STACK

"AN" = ANNEALED
"HS" = HEAT STRENGTHENED
"TP" = TEMPERED
"PVB" = .090 TROSIFOL® PVB INTERLAYER BY KURARAY AMERICA, INC.
"SG" = .090 SENTRYGLAS® INTERLAYER BY KURARAY AMERICA, INC.
"ATG" = ARCHITECTURAL TECHNICAL GLASS BY CORNING, INC.

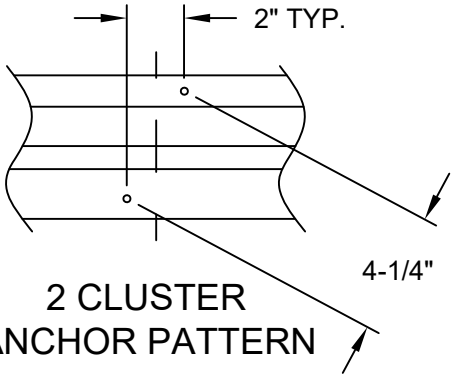
Rev. #		1/29/26		E	
NO CHANGES THIS SHEET		Date		Rev.	
PREPARED BY A. LYNN MILLER 1070 TECHNOLOGY DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296 COPYRIGHT © 2026 WINDOOR, LLC. LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432	
WINDOOR		ALUMINUM IS & OS FRENCH DOOR (LM)		2/29/24	
C. KEMP		By		Date	
FD9950A		15 OF 25		FD9950LMI - FPA	
GLAZING DETAILS		Series		Desc.	
Professional Engineer		Anthony Lynn Miller		No. 58705	
STATE OF FLORIDA		1/29/26		P.E.# 58705	

XX DOOR HEAD & STD. THRESHOLD

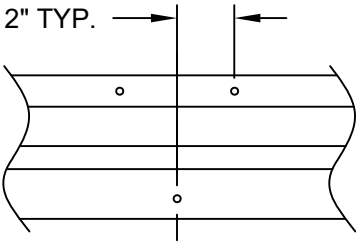
EXTERIOR
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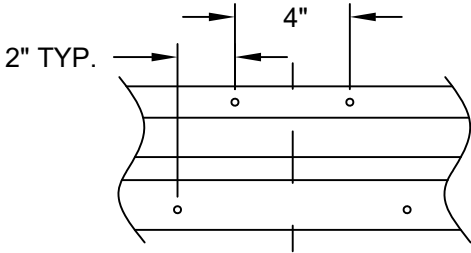
END ANCHOR
PATTERN



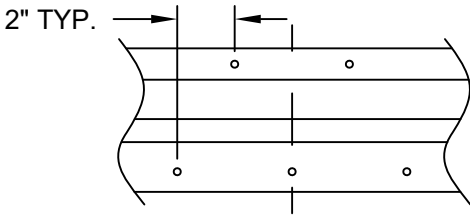
2 CLUSTER
ANCHOR PATTERN



3 CLUSTER
ANCHOR PATTERN



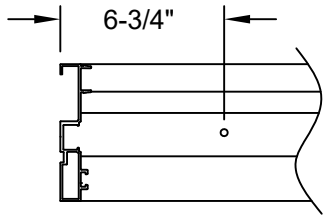
4 CLUSTER
ANCHOR PATTERN



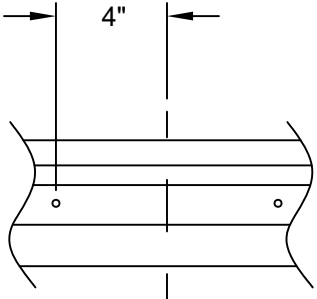
5 CLUSTER
ANCHOR PATTERN

LOW PROFILE THRESHOLD

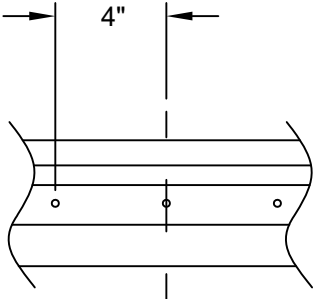
EXTERIOR
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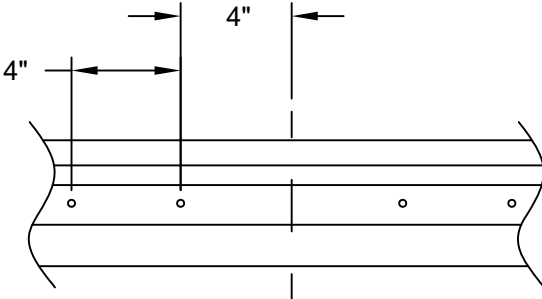
END ANCHOR
PATTERN



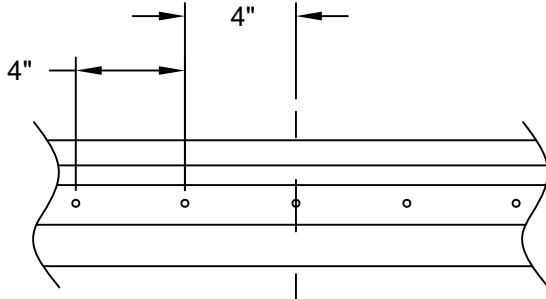
2 CLUSTER
ANCHOR PATTERN



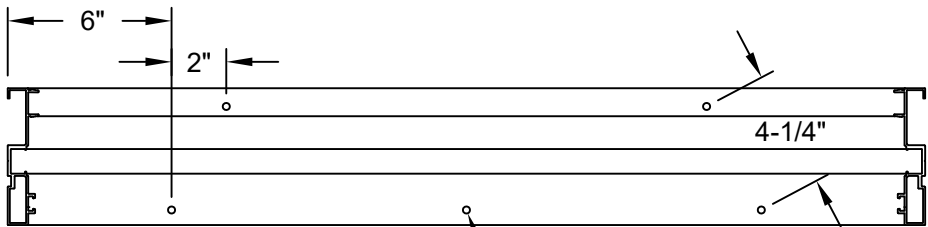
3 CLUSTER
ANCHOR PATTERN



4 CLUSTER
ANCHOR PATTERN



5 CLUSTER
ANCHOR PATTERN



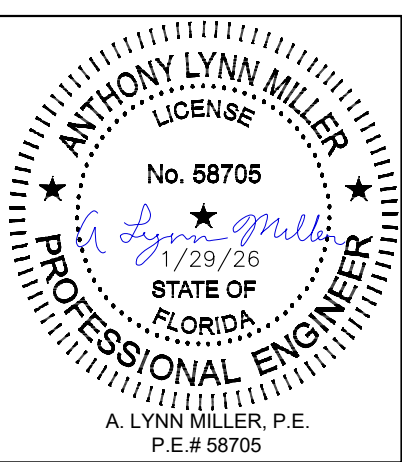
EXTERIOR
↓

1 ANCHOR AT
MIDPOINT

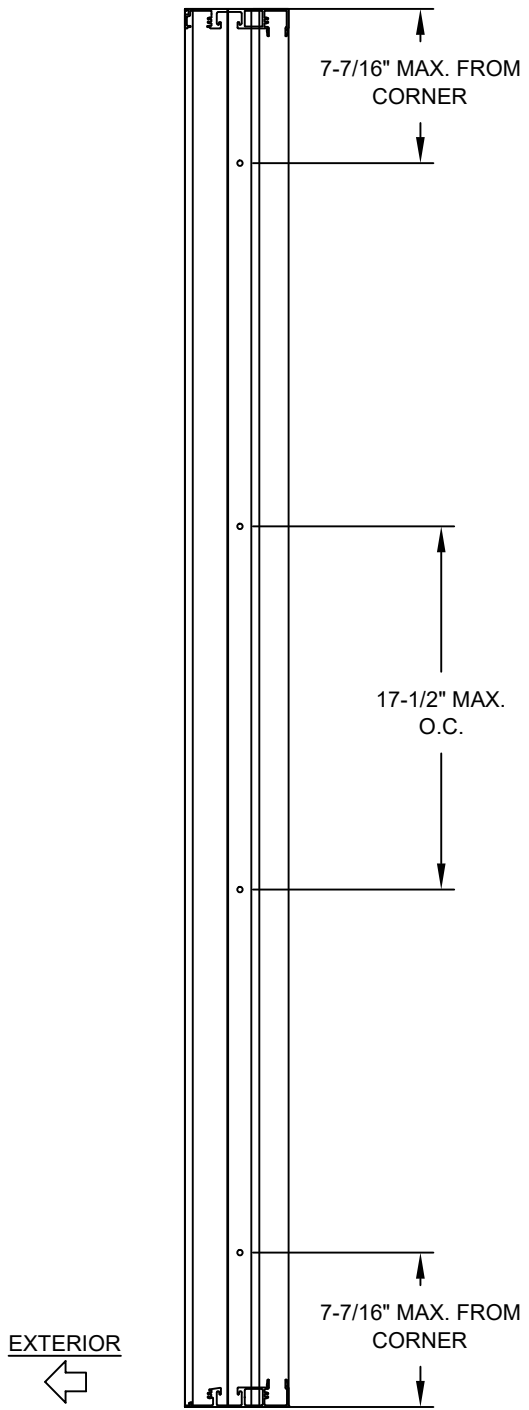
X DOOR HEAD & STD. THRESHOLD ANCHOR PATTERN

Rev. #	E
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	104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		ALUMINUM IS & OS FRENCH DOOR (LM)	
	HEAD/SILL ANCHOR PATTERNS		C. KEMP	
Series	FD9950A	Sheet	16 OF 25	FD9950LMI - FPA
Desc.	HEAD/SILL ANCHOR PATTERNS			
Title	ALUMINUM IS & OS FRENCH DOOR (LM)			
By	C. KEMP			
Date	2/29/24			



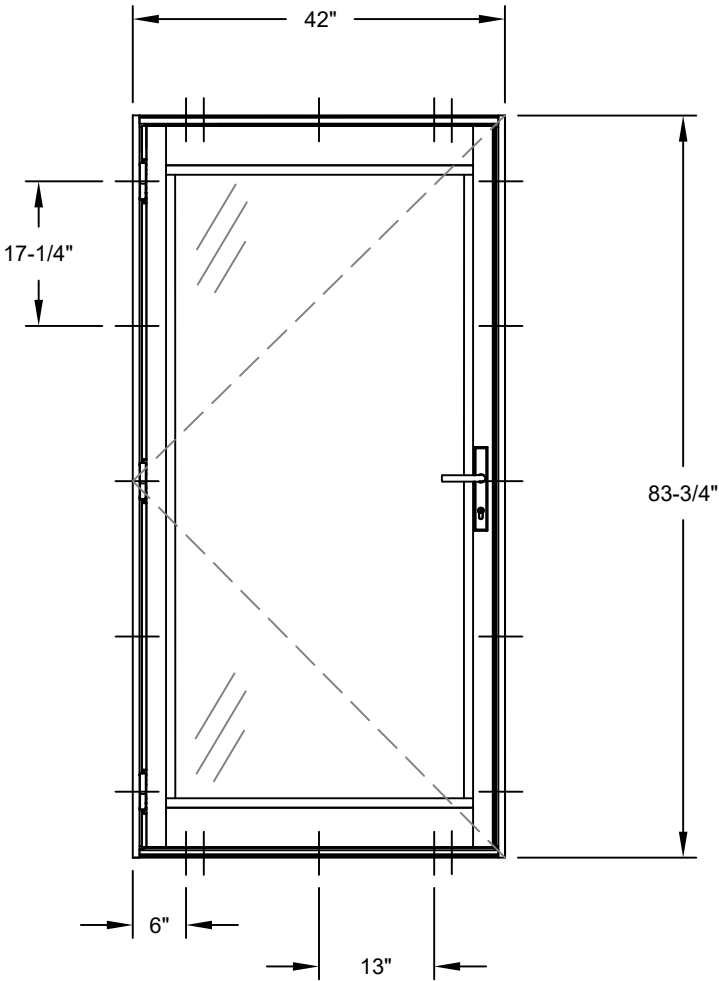
A. LYNN MILLER, P.E.
P.E.# 58705



JAMB ANCHOR PATTERN

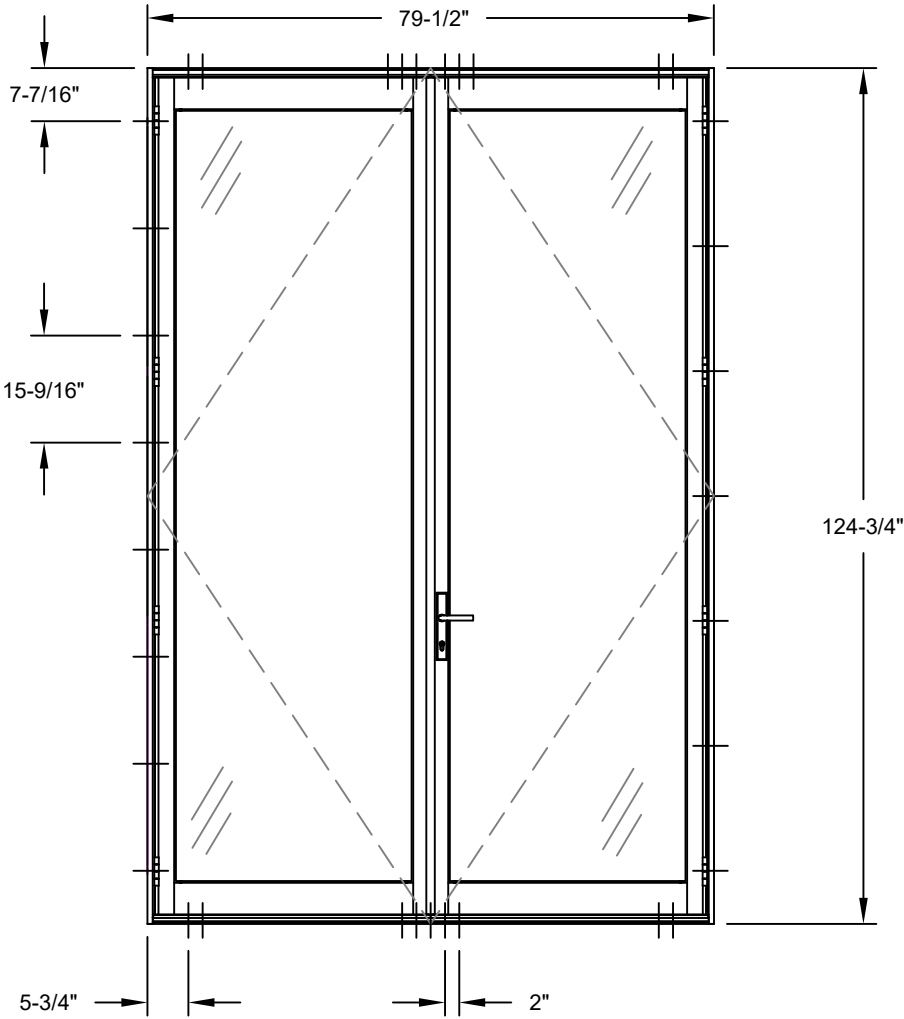
EXAMPLE:
- SINGLE DOOR, OUTSWING 42" X 83-3/4", REQUIRED DESIGN PRESSURE IS +55/-65 PSF.
- WITH STD. THRESHOLD
- SUBSTRATE IS WOOD ON ALL SIDES.

- 1) FROM TABLES 2-11, WE SEE THAT THE SIZE IS AVAILABLE USING ALL GLASS TYPES AND ALL CONFIGURATIONS, FOR THIS EXAMPLE USE GLASS TYPE 1.
- 2) SINCE WE ARE USING AN OUTSWING CONFIG. WITH THE STD. THRESHOLD, WE NEED TO USE TABLE 2, ON SHEET 2. FROM TABLE 2, AFTER ROUNDING THE WIDTH AND HEIGHT UP TO THE SIZES GIVEN ON THE TABLE, WE SEE THAT THE MAXIMUM DESIGN PRESSURE IS +65/-70. SINCE THIS EXCEEDS THE REQUIREMENTS OF +55/-65, WE MAY PROCEED.
- 3) FOLLOW ANCHOR LOCATIONS AS SHOWN ON THE ELEVATION OF SHEET 2.
- 4) FROM THE MAXIMUM O.C., IT IS REQUIRED THAT WE USE AT LEAST 5 ANCHORS IN THE JAMB.
- 5) INSTALL USING THE CROSS-SECTION DRAWINGS ON SHEETS 18-24 AS A GUIDELINE.

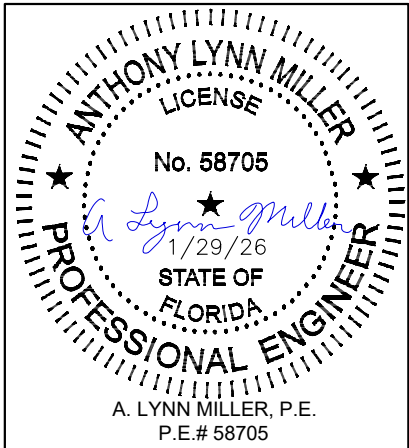


EXAMPLE 2:
- DOUBLE DOOR, XX, 79-1/2" X 124-3/4". REQUIRED DESIGN PRESSURE IS +/-52.5 PSF.
- SUBSTRATE IS CONCRETE AT THE HEADER AND SILL AND UNFILLED CONCRETE BLOCKS AT THE JAMBS.

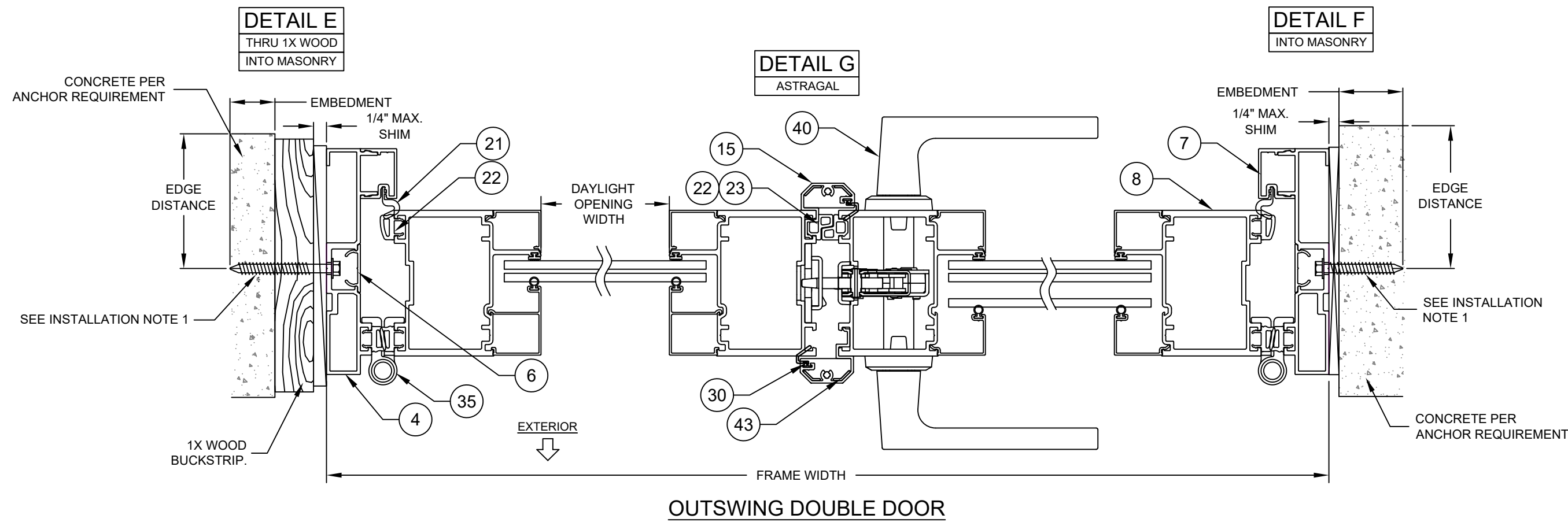
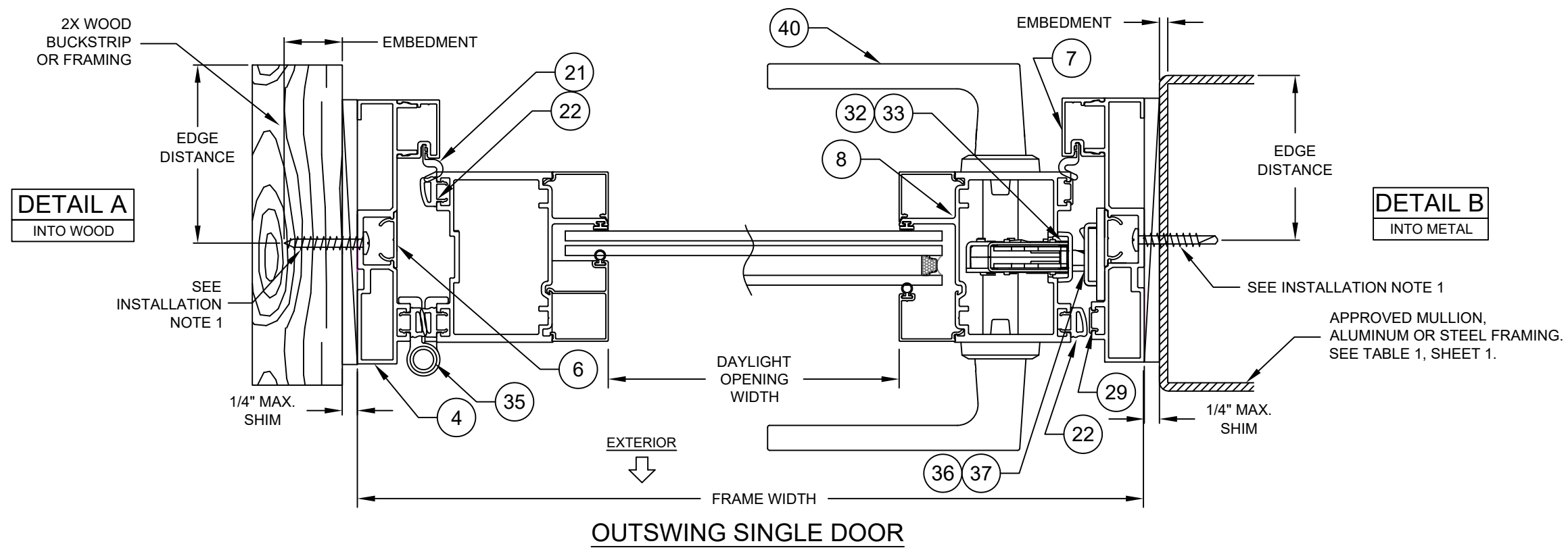
- 1) FROM TABLES 12-16, WE SEE THAT THE SIZE IS AVAILABLE USING ALL GLASS TYPES. FOR THIS EXAMPLE USE GLASS TYPE 7.
- 2) FROM TABLE 15, AFTER ROUNDING THE WIDTH AND HEIGHT UP TO THE SIZES GIVEN ON THE TABLE, WE SEE THAT THE MAXIMUM DESIGN PRESSURE IS +/-57.9. SINCE THIS EXCEEDS THE REQUIREMENTS OF +/-52.5, WE MAY PROCEED.
- 3) FOLLOW ANCHOR LOCATIONS AS SHOWN ON THE ELEVATION OF SHEET 7. FOR THE HEAD AND SILL CLUSTER QUANTITIES, REFER TO TABLE 17.
- 4) TABLE 17 REQUIRES US TO KNOW THE ANCHOR GROUP TO BE USED. WE PLAN ON USING ULTRACON+ ANCHORS. LOOKING AT TABLE 1, SHEET 1, WE CHOSE ANCHOR GROUP C SINCE WE KNOW THAT THE ANCHORS AT THE HEAD AND SILL ARE INTO CONCRETE AND THE ANCHORS AT THE JAMBS ARE INTO HOLLOW BLOCK.
- WE REQUIRE 4 CLUSTER ANCHORS IN THE HEAD AND 4 CLUSTER ANCHORS IN THE SILL USING THE SPACING SHOWN ON SHEET 16.
- 5) INSTALL USING THE CROSS-SECTION DRAWINGS ON SHEETS 18-24 AS A GUIDELINE.



 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								
Series		FD9950A		17 OF 25		Sheet		JAMB ANCHORS & EXAMPLES		C. KEMPF		2/29/24	
Desc.		Title		ALUMINUM IS & OS FRENCH DOOR (LM)		Date		By		Drawn		REGISTRATION #29296	
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FD9950LMI - FPA													



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Date		NO CHANGES THIS SHEET			

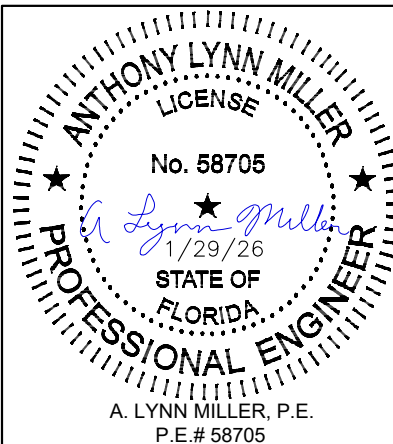


INSTALLATION NOTES:

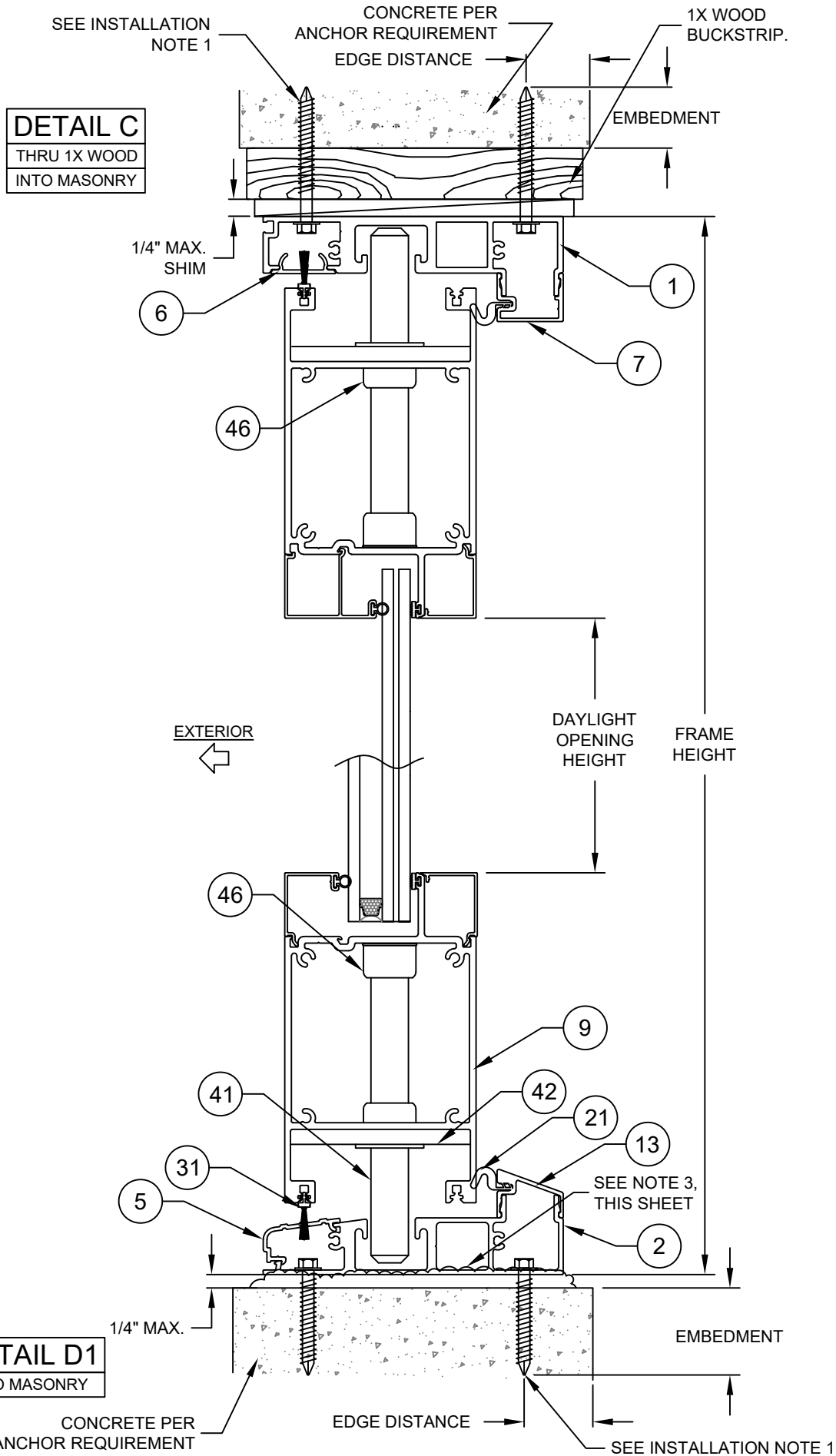
1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1 FOR DOORS AND TABLE 21, SHEET 11 FOR SIDELITES. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.

2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE 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.

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	ALUMINUM IS & OS FRENCH DOOR (LM)			
	OS HORIZ. X-SECTION DETAILS			
	C. KEMP			
FD9950A	18 OF 25	FD9950LM1 - FPA		



ANTHONY LYNN MILLER
LICENSE
No. 58705
1/29/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



OUTSWING WITH STANDARD THRESHOLD

INSTALLATION NOTES:

- 1) USE ONLY SUBSTRATE APPROPRIATE ANCHORS, FOLLOW EMBEDMENT, EDGE DISTANCE AND SUBSTRATE REQUIREMENTS PER TABLE 1, SHEET 1 FOR DOORS AND TABLE 21, SHEET 11 FOR SIDELITES. ANY INSTALLATION OPTION SHOWN MAY BE USED. ALL ANCHOR HEAD TYPES ARE ALLOWED.
- 2) ALL WOOD BUCKS LESS THAN 1-1/2" THICK ARE TO BE CONSIDERED 1X INSTALLATIONS. 1X WOOD BUCKS ARE OPTIONAL. UNIT MAY BE 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.
- 3) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

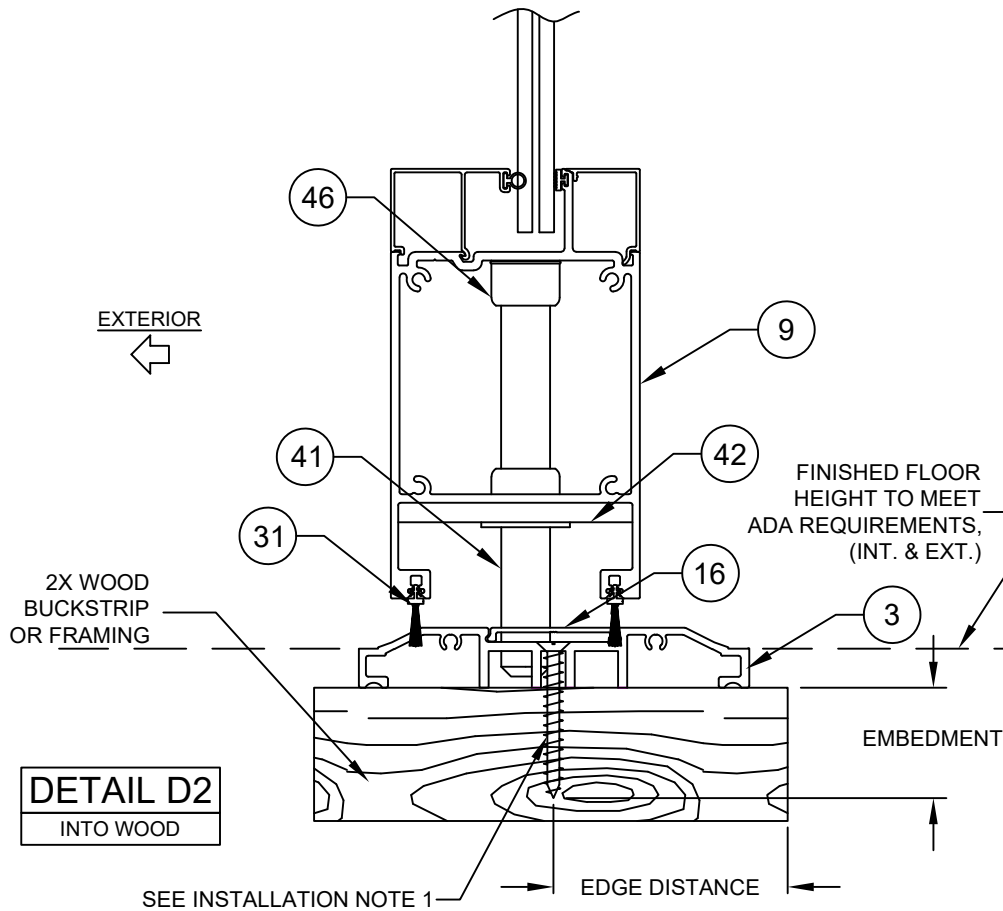


FIGURE 1:

OH LENGTH

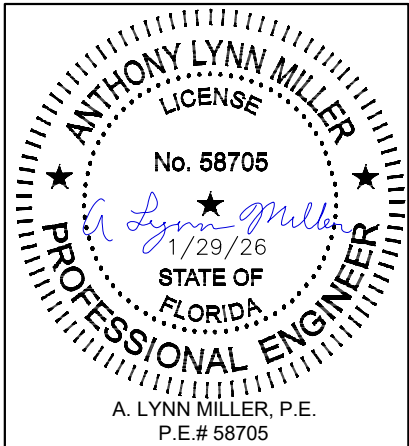
OH HEIGHT

DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT ARE EXEMPTED FROM WATER INFILTRATION RESISTANCE.

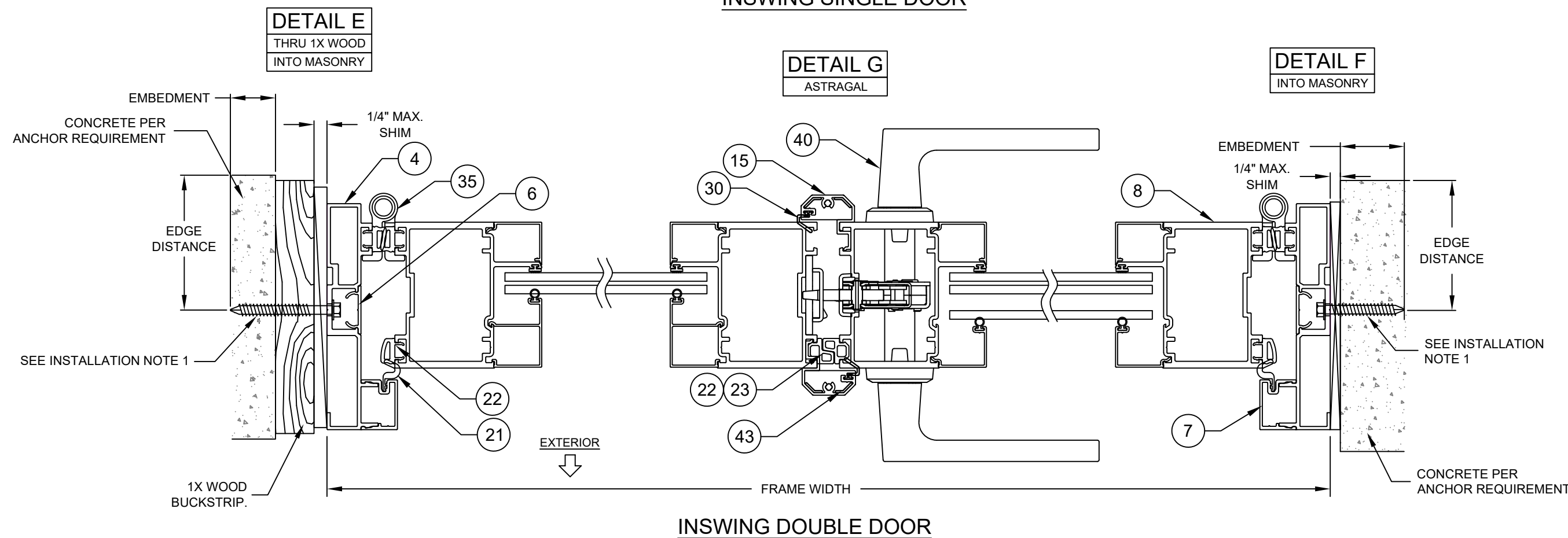
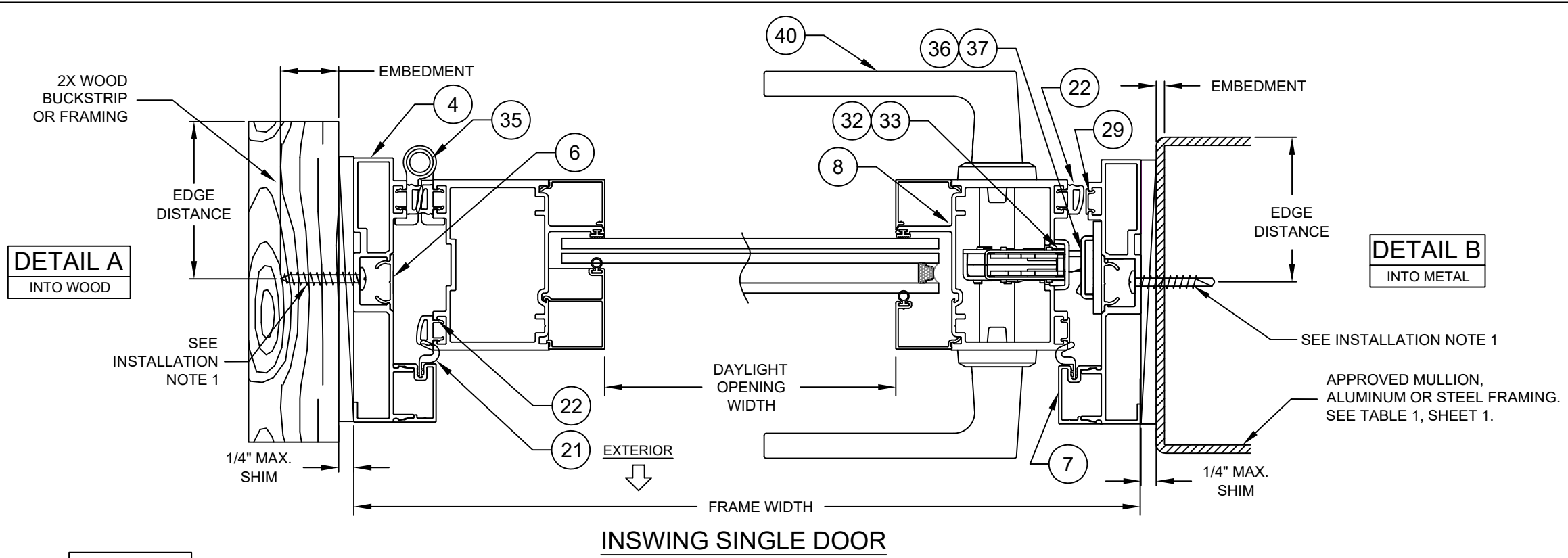
DOOR WATER INFILTRATION NOTES:

- 1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE STANDARD THRESHOLD WITH AN OUTSWING CONFIGURATION 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 BOTH THRESHOLDS ARE ACCEPTABLE.

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WINDOOR 104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432	ALUMINUM IS & OS FRENCH DOOR (LM)	19 OF 25 Sheet	OS VERT. X-SECTION DETAILS	FD9950A



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Date		
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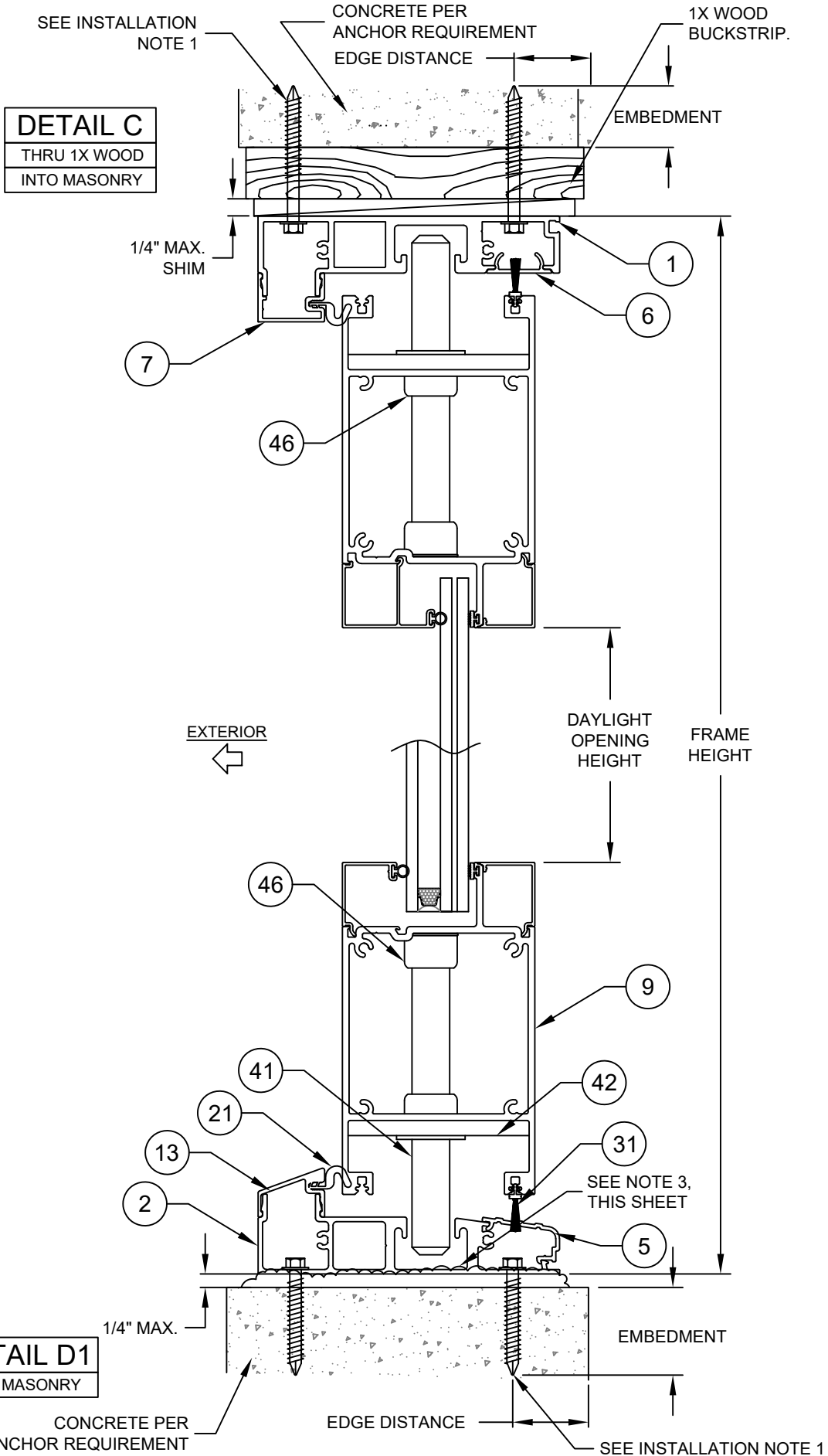
INSTALLATION NOTES:

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WINDOOR		104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		ALUMINUM IS & OS FRENCH DOOR (LM)	
FD9950A		20 OF 25		FD9950LMI - FPA	
IS HORIZ. X-SECTION DETAILS		C. KEMP		NO CHANGES THIS SHEET	
Series Desc. Title		By		Date	
FD9950A		C. KEMP		2/29/24	
FD9950A		20 OF 25		FD9950LMI - FPA	
FD9950A		20 OF 25		FD9950LMI - FPA	

ANTHONY LYNN MILLER
LICENSE
No. 58705
1/29/26
STATE OF FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705



INSTALLATION NOTES:

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- 3) IF SILL IS TIGHT TO SUBSTRATE, GROUT OR OTHER MATERIAL IS NOT REQUIRED. IF USED, NON-SHRINK, NON-METALLIC GROUT, MAX. 1/4" THICK & 3400 PSI MIN., (DONE BY OTHERS) MUST FULLY SUPPORT THE ENTIRE LENGTH OF THE SILL THAT IS NOT TIGHT TO THE SUBSTRATE, AND TRANSFER SHEAR LOAD TO SUBSTRATE. IF SUBSTRATE IS WOOD, 30# FELT PAPER OR MASTIC IS REQUIRED BETWEEN THE GROUT AND WOOD SUBSTRATE, OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

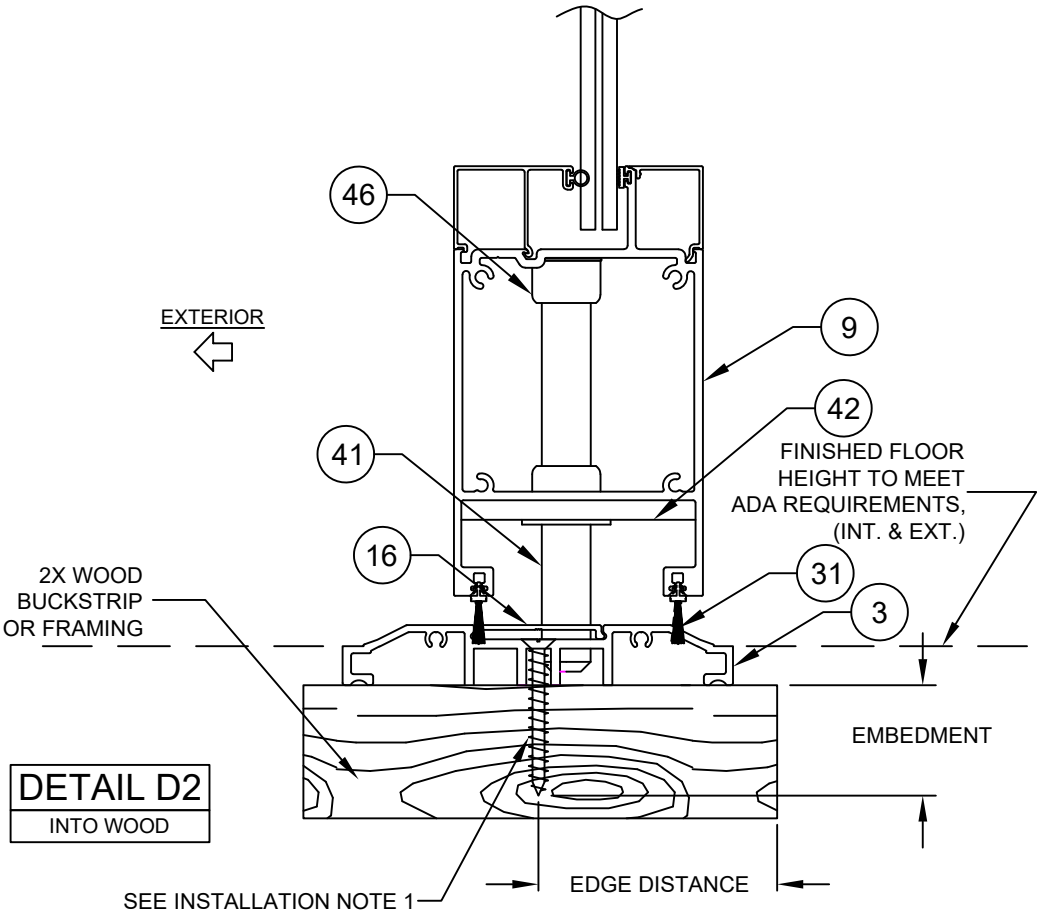


FIGURE 1:

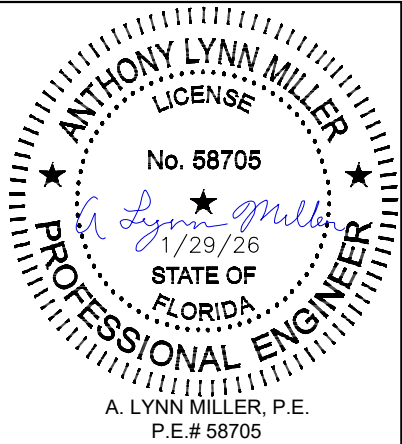
OH LENGTH

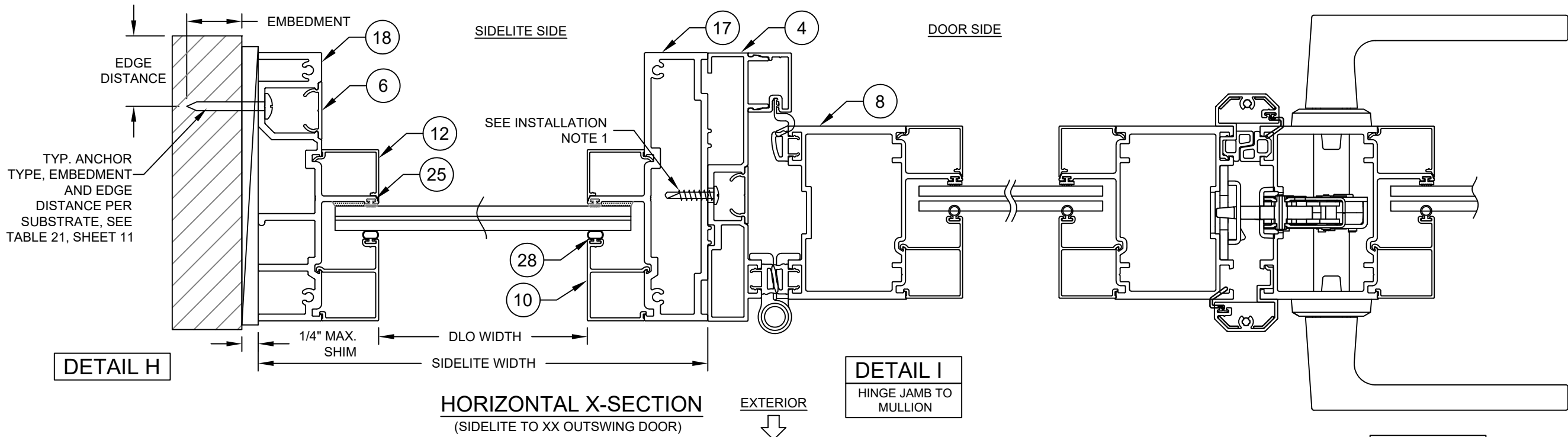
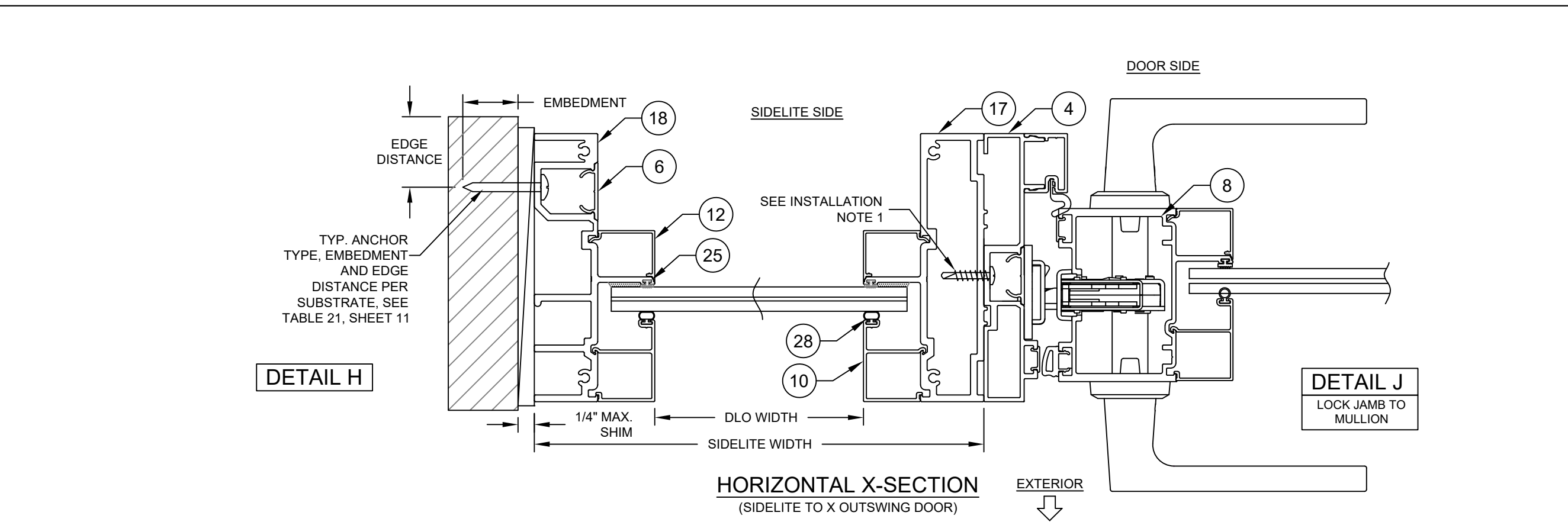
DOOR ASSEMBLIES INSTALLED WHERE THE OVERHANG (OH) LENGTH IS EQUAL TO OR GREATER THAN THE OVERHANG HEIGHT ARE EXEMPTED FROM WATER INFILTRATION RESISTANCE.

DOOR WATER INFILTRATION NOTES:

- 1) IF WATER INFILTRATION RESISTANCE IS REQUIRED, THE STANDARD THRESHOLD WITH AN OUTSWING CONFIGURATION 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 BOTH THRESHOLDS ARE ACCEPTABLE.

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		IS VERT. X-SECTION DETAILS		Drawn	C. KEMPF
Series Desc. Title		21 OF 25		No. DWG	FD9950LMI - FPA
FD9950A		Sheet			

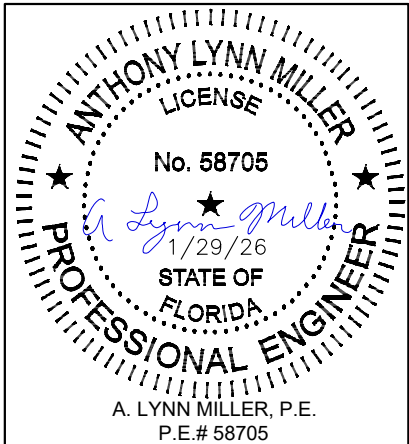




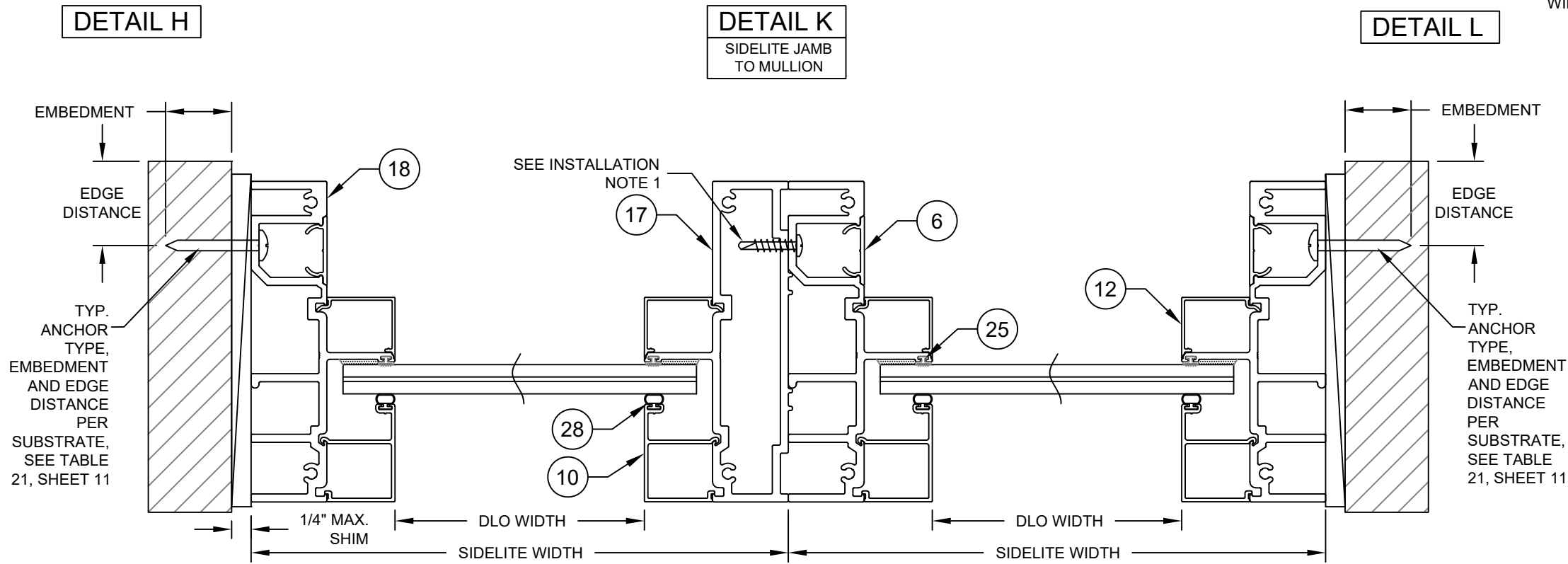
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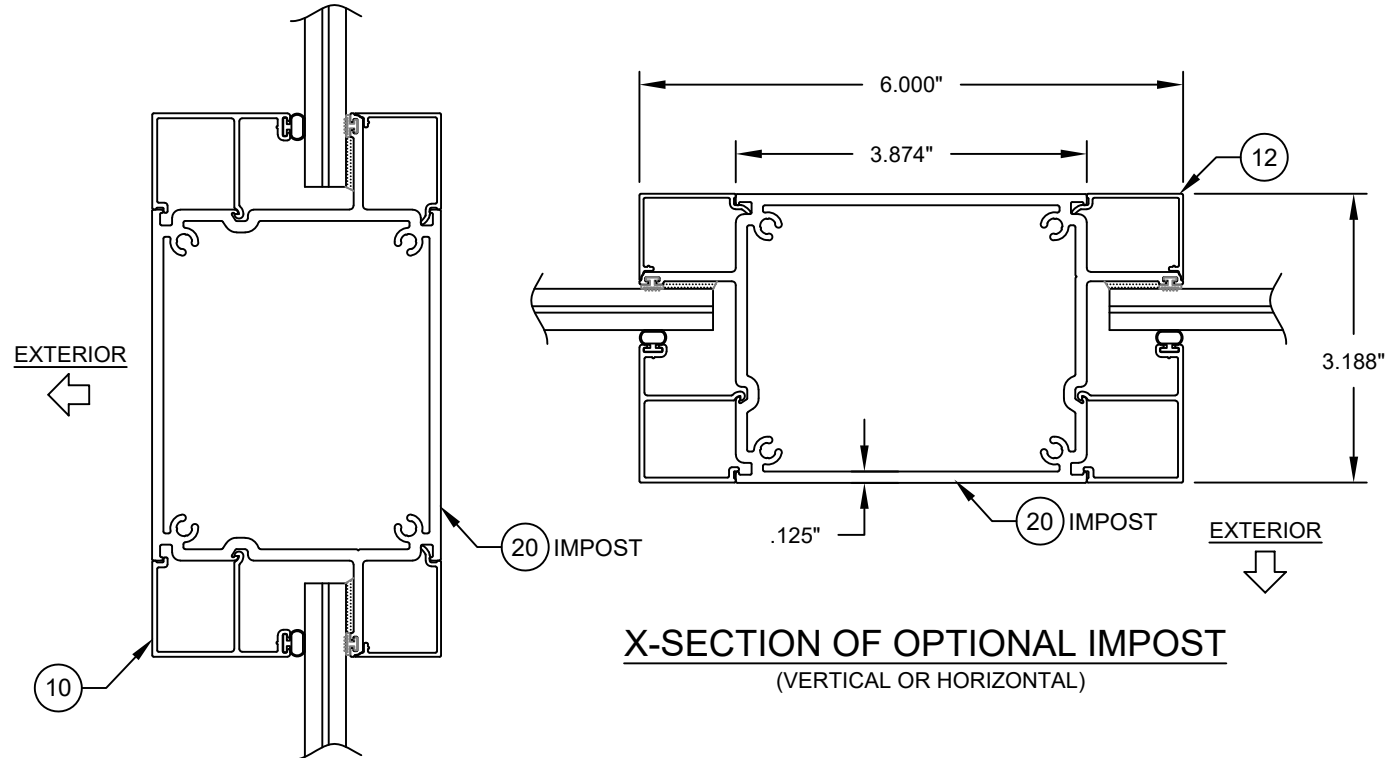
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104 TRIPLE DIAMOND BLVD N. VENICE, FL 34275 (833) 554-5432		ALUMINUM IS & OS FRENCH DOOR (LM)				Date	2/29/24
SL HORIZ. X-SECTION DETAILS		FD9950A		22 OF 25		C. KEMPF	
Series		Desc.		Title		No.	
FD9950LMI - FPA		FD9950A		22 OF 25		DWG	



Rev.		1/29/26		E	
Date		NO CHANGES THIS SHEET			



HORIZONTAL X-SECTION
(VERTICALLY MULLED PICTURE WINDOWS O|O)



IMPOST NOTES

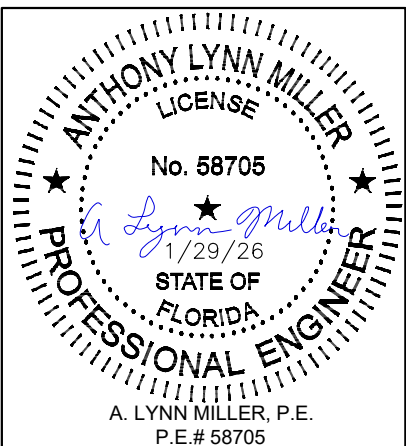
- 1) IMPOSTS MAY BE VERTICAL OR HORIZONTAL; SINGLE OR IN MULTIPLE QUANTITIES.
- 2) IMPOSTS MAY BE USED IN ANY DOOR OR WINDOW CONFIGURATION.
- 3) IMPOST MAY NOT CROSS ANOTHER IMPOST, I.E. NO "T" OR "CROSS" PATTERNS.
- 4) A MIXTURE OF GLAZING TYPES WITHIN THE SAME UNIT IS ALLOWED.

WINDOW DLO FORMULAS:
NARROW STILE DLO = FRAME WIDTH OR HEIGHT - 4-1/2"
WIDE STILE WINDOW DLO = WIDTH OR HEIGHT - 13-1/8"

INSTALLATION NOTES:

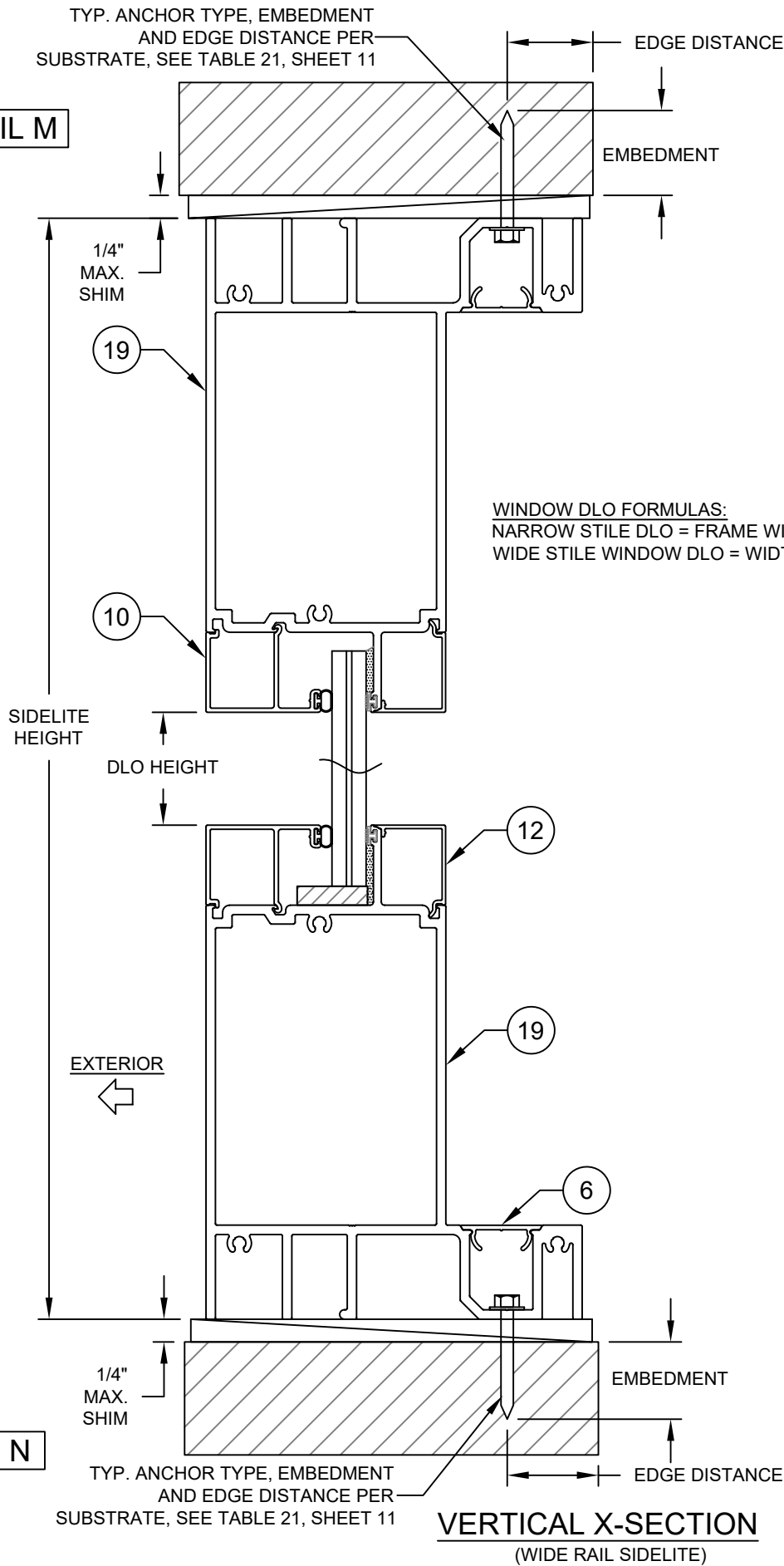
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SL HORIZ. X-SECTION DETAILS		Drawn By	C. KEMPF
FD9950A	23 OF 25	DWG No.	
Series	Sheet	FD9950LMI - FPA	

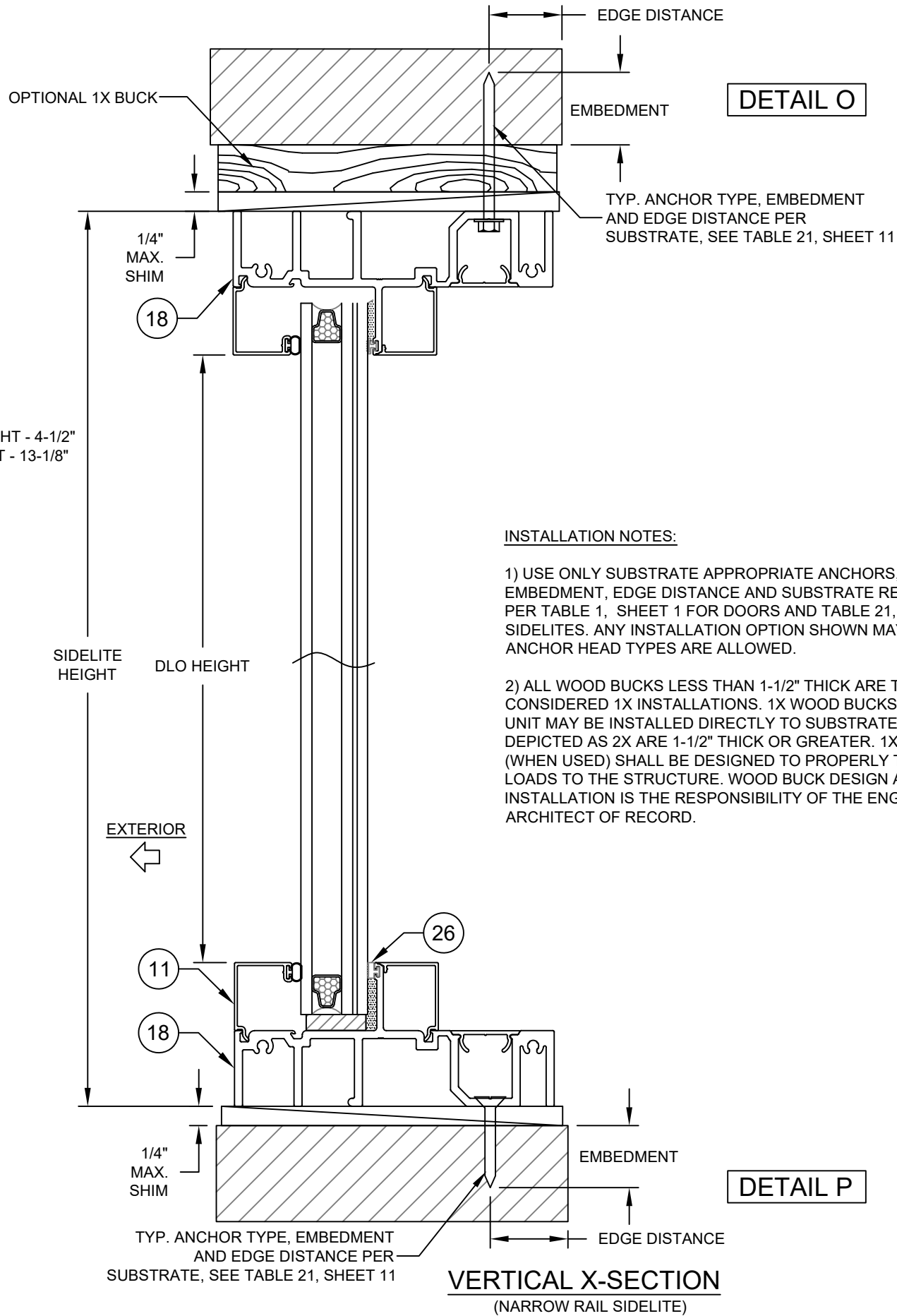


Rev.	1/29/26	E
Date	1/29/26	
ADDED OPT. IMPOST - CK		

DETAIL M

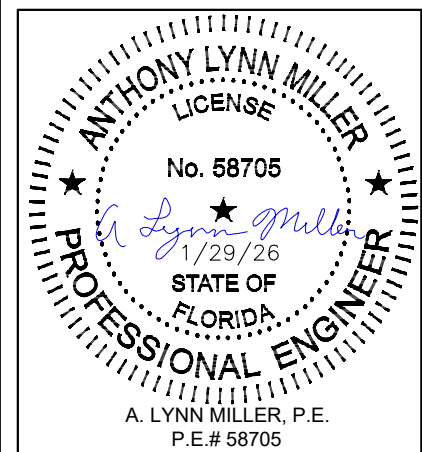


DETAIL N



DETAIL P

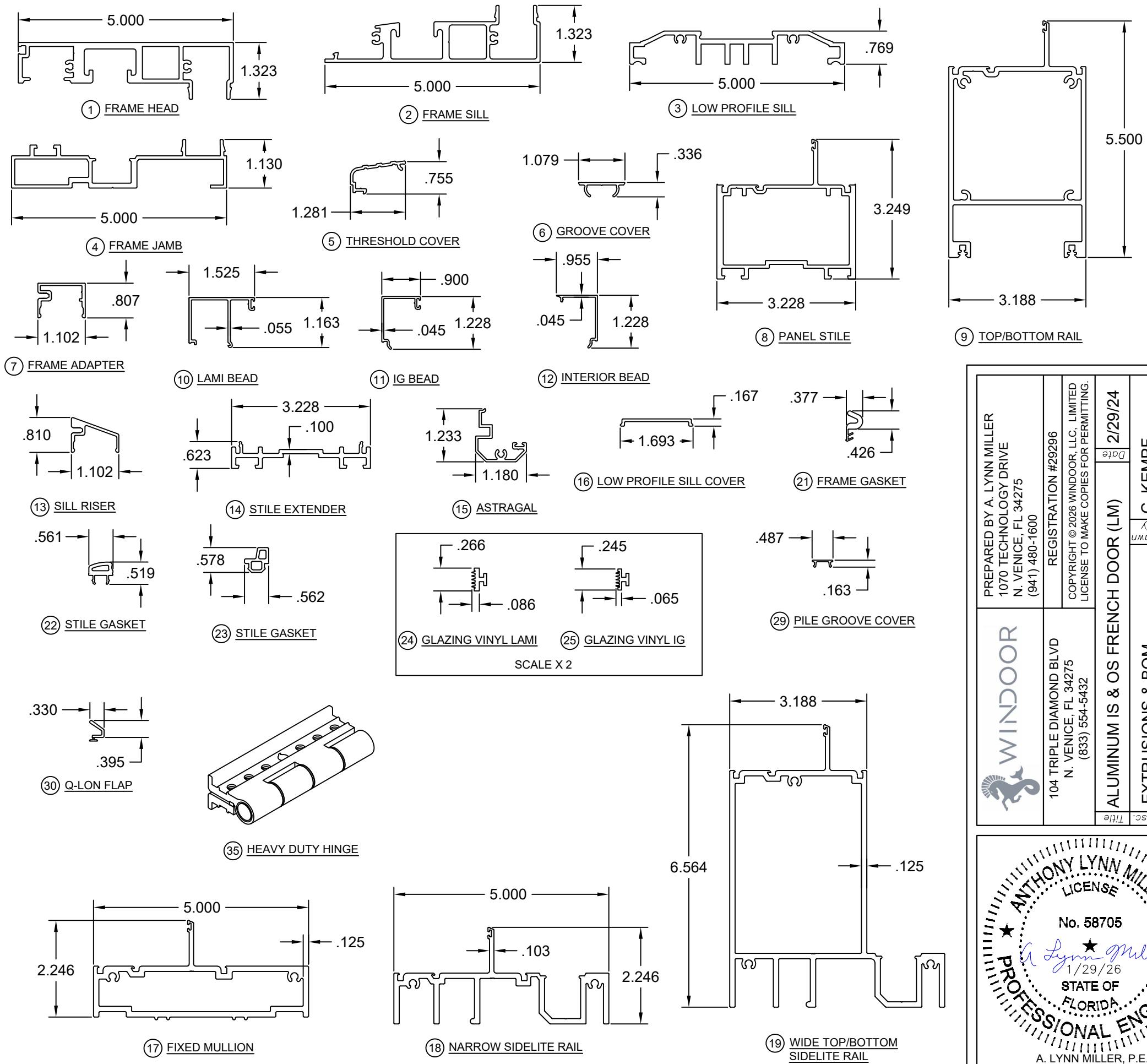
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SL VERT. X-SECTION DETAILS		24 OF 25		FD9950A		FD9950LMI - FPA
Series		Desc.		Title		



Rev.	1/29/26	Date
NO CHANGES THIS SHEET		
E		

TABLE 26:

#	Part #	Description	Material
1	21000	Frame Head	6063-T6
2	31001	Frame Sill	6063-T6
3	23003	Low Profile Sill	6063-T6
4	31000	Frame Jamb	6063-T6
5	21007	Threshold Cover	6063-T6
6	21006	Groove Cover	6063-T6
7	21005	Frame Adapter	6063-T6
8	21010	Panel Stile	6063-T6
9	21009	Top/Bottom Rail	6063-T6
10	21014	Lami Bead	6063-T6
11	21012	IG Bead	6063-T6
12	21013	Interior Bead	6063-T6
13	31002	Sill Riser	6063-T6
14	21078	Stile Extender	6063-T6
15	21011	Astragal	6063-T6
16	23004	Low Profile Sill Cover	6063-T6
17	23046	Fixed Mullion	6063-T6
18	23045	Narrow Sidelite Rail	6063-T6
19	23027	Wide Top/Bottom Sidelite Rail	6063-T6
20	11613	Impost	6063-T6
21	21047	Frame Gasket	PVC
22	21044	Stile Gasket	PVC
23	21105	Stile Gasket	PVC
24	121006	Glazing Vinyl Lami	PVC
25	21046	Glazing Vinyl IG	PVC
26	21045	Large Glazing Leg Weatherstrip	PVC
27	61224	Glazing Bulb	PVC
28	23021	Beading Bulb Weatherstrip	PVC
29	23029R	Pile Groove Cover	PVC
30	21103	Q-Lon Flap	QLON
31	21042	Rail Gasket	Woolpile
32	23090	Lock	SS
33	23091	Lock Extension	SS
35	21036	Heavy Duty Hinge	Aluminum
36	23014	Striker	SS
37	23015	Keeper	SS
38	21106	Keeper Shim	PET
39	21107	Striker Shim	PET
40	23093	Handle	Die Cast
41	21026	Shoot Bolt	SS
42	21068	Shoot Bolt Plate	6063-T6
43	21088	Astragal Cap	PET
44	21033	Threaded Rod	SS
45	21032	Manual Throw	Die Cast
46	21019	Bolt Guide	PET
47	21035	Hinge Fastener	Die Cast SS
48	varies	Kommerling Kodispace 4SG TPS	varies
49	varies	Quanex Super Spacer	varies
50	varies	Metal IG Spacer	varies
51		Backbedding (Dow 791, 983 or RGS 7700)	Silicone
52		Setting Block, 0.25"	EPDM



PREPARED BY A. LYNN MILLER
1070 TECHNOLOGY DRIVE
N. VENICE, FL 34275
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104 TRIPLE DIAMOND BLVD
N. VENICE, FL 34275
(833) 554-5432

ALUMINUM IS & OS FRENCH DOOR (LM)

EXTRUSIONS & BOM

2/29/24

C. KEMP

FD9950A

25 OF 25

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