

SERIES 160 ALUMINUM, IMPACT-RESISTANT, OUTSWING DOOR WITH SIDELITES

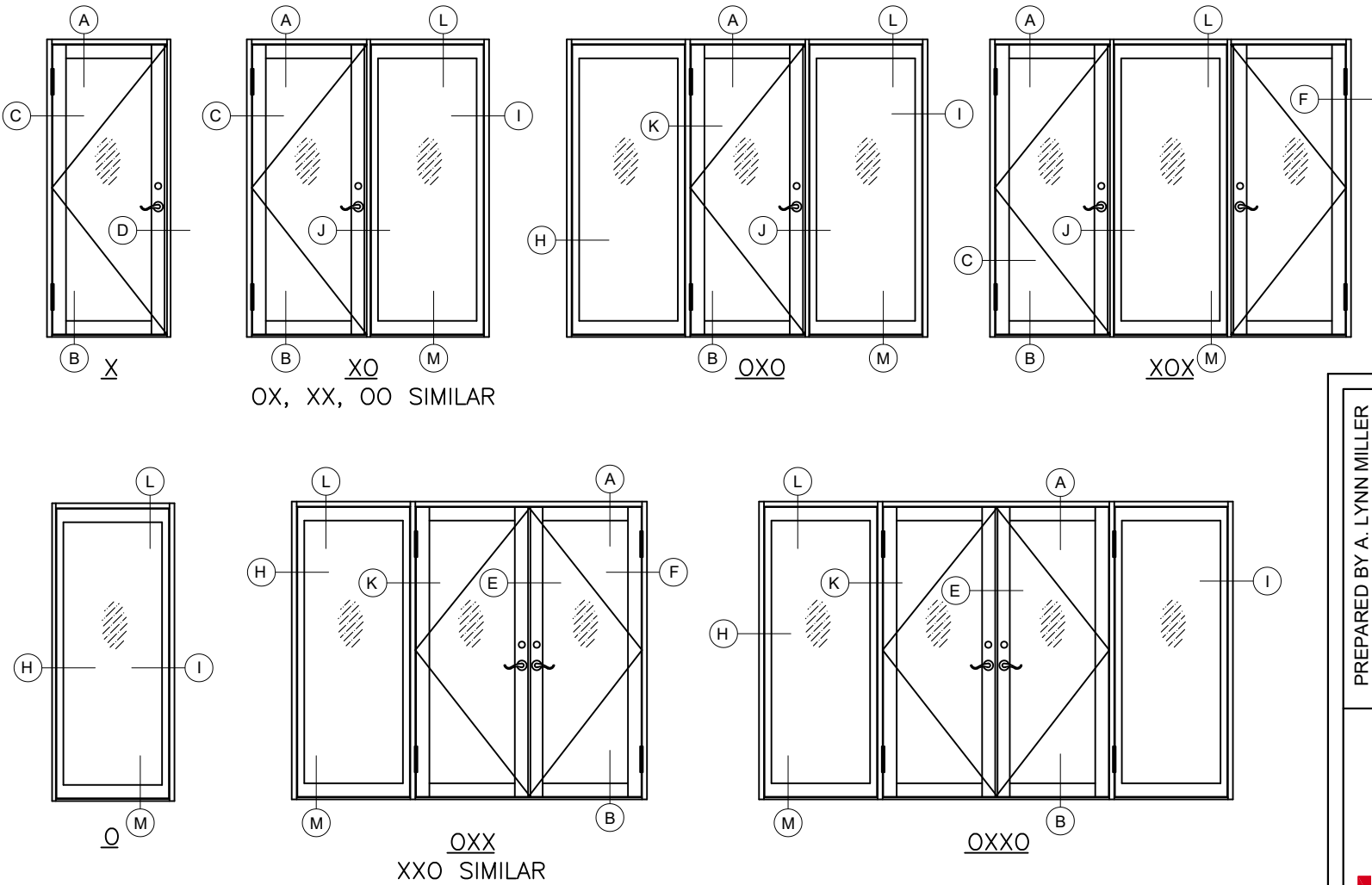
- 1) THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2) SHUTTERS ARE NOT REQUIRED WHEN USED IN WIND-BORNE DEBRIS REGIONS.
- 3) MASONRY ANCHORS MAY BE USED INTO WOOD AS PER TABLE A, SHEET 4. ALL 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.
- 4) 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.
- 5) ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO. USE ANCHORS OF SUFFICIENT LENGTH TO ACHIEVE THE EMBEDMENT SHOWN ON TABLE B. OVERALL SEALING/FLASHING STRATEGY FOR WATER RESISTANCE OF INSTALLATION SHALL BE DONE BY OTHERS AND IS BEYOND THE SCOPE OF THESE INSTRUCTIONS.
- 6) MAX. 1/2" 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 OR SIDELITE.
- 7) DESIGN PRESSURES:

A. NEGATIVE DESIGN LOADS BASED ON STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.

B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE, STRUCTURAL TEST PRESSURE, FRAME ANALYSIS AND GLASS PER ASTM E1300.

C. DESIGN LOADS ARE BASED ON ALLOWABLE STRESS DESIGN, ASD.
- 8) 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.
- 9) SIZES MUST BE VERIFIED FOR COMPLIANCE WITH EGRESS REQUIREMENTS PER THE FLORIDA BUILDING CODE. THE MAXIMUM FRAME AREA MUST NOT EXCEED THE TESTED FRAME AREA OF 100.3 SQ. FT.

EXAMPLE CONFIGURATIONS:



INSTRUCTIONS:

- STEP 1

DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2

FOR SINGLE (X) & DOUBLE (XX) DOORS SEE TABLE 1, 4A, 4B, 5A, OR 5B FOR DESIGN PRESSURE.
- STEP 3

FOR SIDELITES & STANDALONE WINDOWS (O), SEE TABLE 2 FOR DESIGN PRESSURE.
- STEP 4

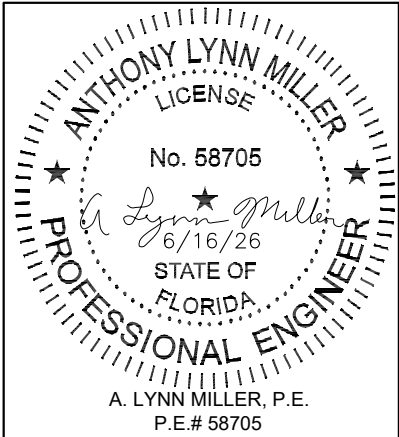
FOR SIDELITE MULLED TO DOORS, SEE TABLE 3 FOR DESIGN PRESSURE.
- STEP 5

THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

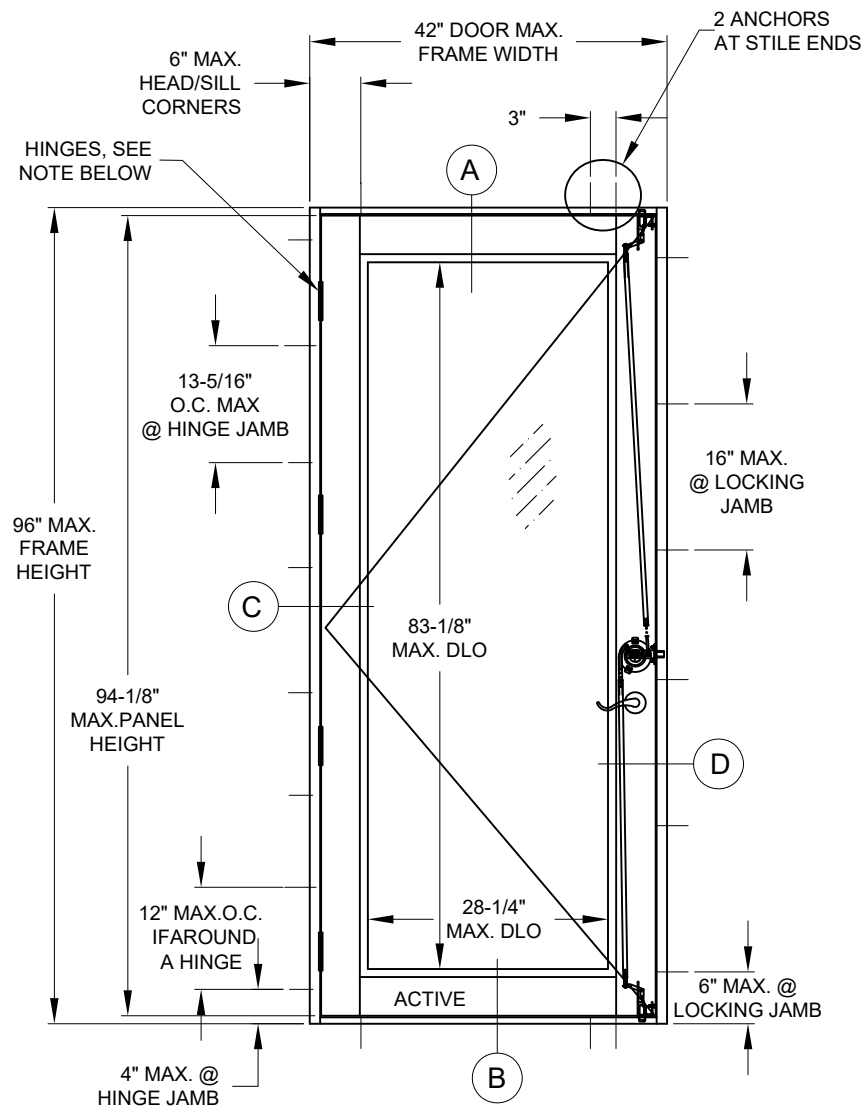
- GENERAL NOTES
- EXAMPLE CONFIGS..... 1
 - ANCHOR ELEVATIONS..... 2, 3
 - DP & ANCHOR TABLES..... 4
 - ANCHOR ELE. DP TABLE, SINGLE POINT LOCK..... 5, 6
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DESIGN PRESSURE RATING	WATER PRESSURE RATING	IMPACT RATING
SEE TABLES 1 - 5	15% OF THE (+) DESIGN PRESSURE UNLESS NOTED OTHERWISE	RATED FOR LARGE & SMALL MISSILE IMPACT RESISTANCE

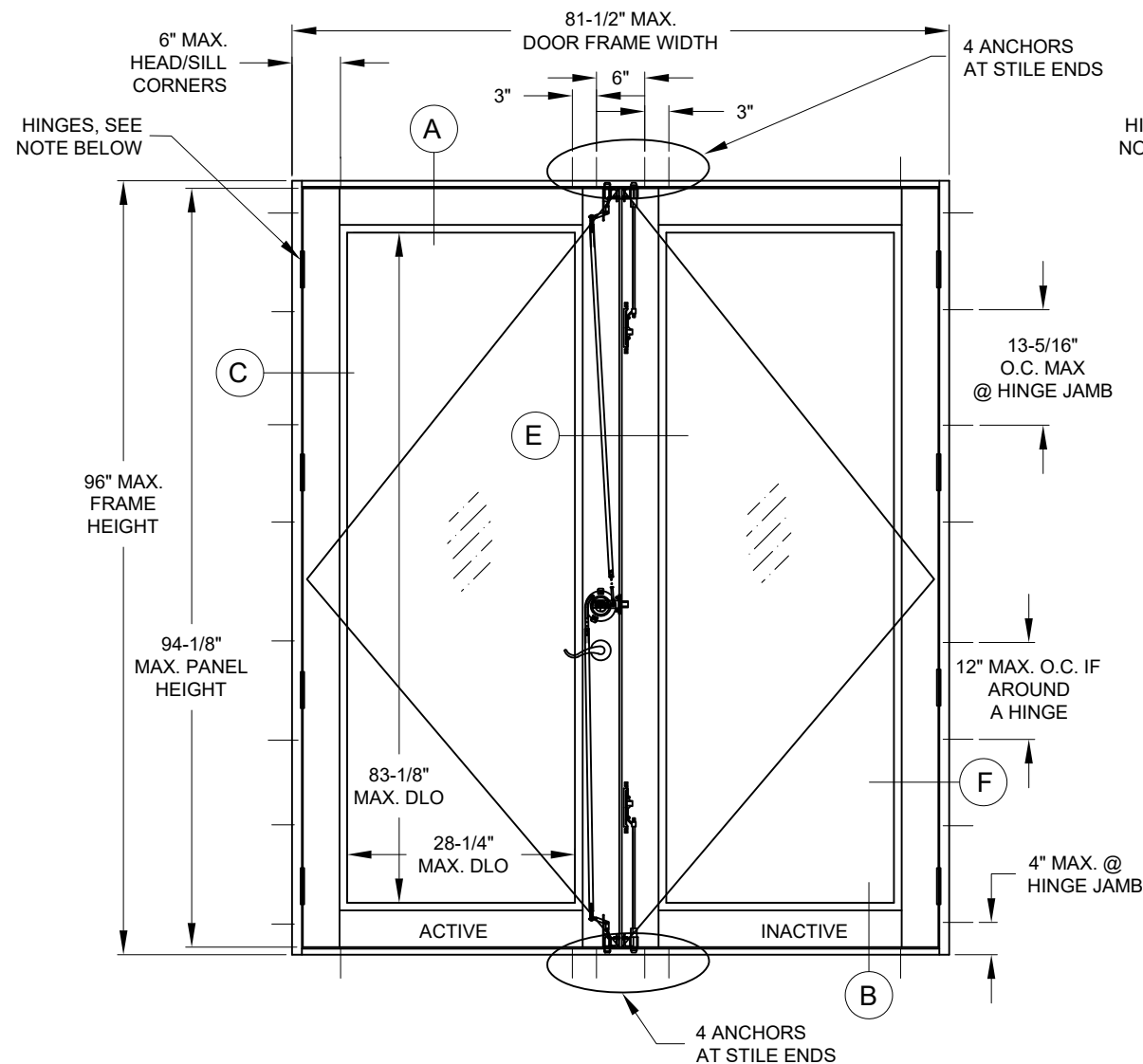
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	ALUMINUM OUTSWING DOOR (LM)	NOTES & CONFIGURATION
	FD160	1 OF 16
JENS ROSOWSKI		160FPA-LM



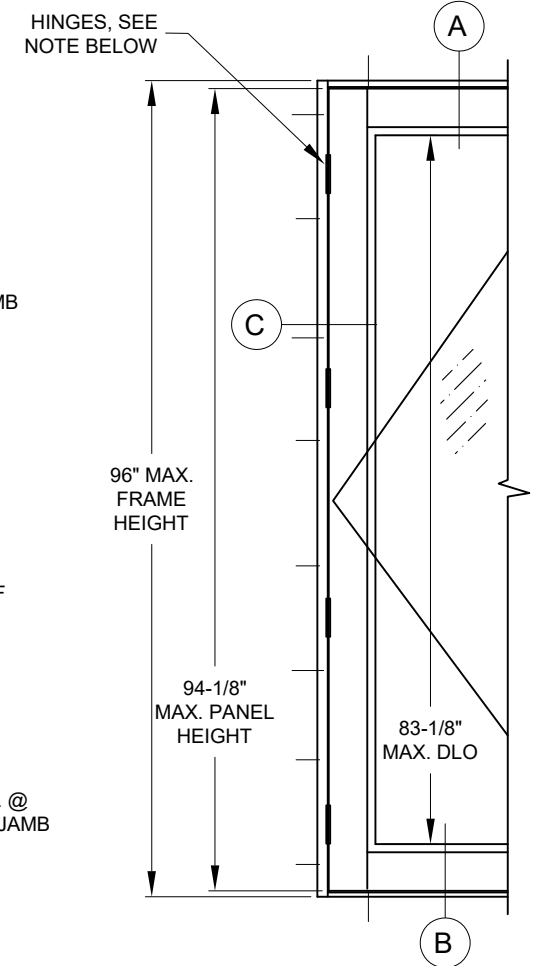
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D	6/16/26	NO CHANGES THIS SHEET



X ELEVATION
WITH STANDARD THRESHOLD



XX ELEVATION
WITH STANDARD THRESHOLD



X/XX ELEVATION
WITH SADDLE (ADA) THRESHOLD

DOOR DLO DIMENSIONS:

DLO HEIGHT = FRAME HEIGHT - 12.875"
DLO WIDTH (X DOORS) = FRAME WIDTH - 13.75"
DLO WIDTH (XX DOORS) = (FRAME WIDTH - 25") / 2

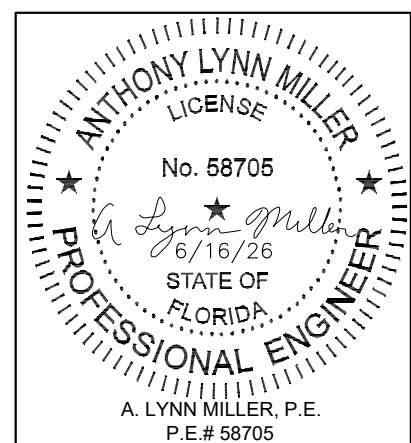
NOTES:

1) THE LOWEST DESIGN PRESSURE VALUES FROM DOOR, SIDELITE OR MULLION TABLES WILL APPLY TO ENTIRE SYSTEM.

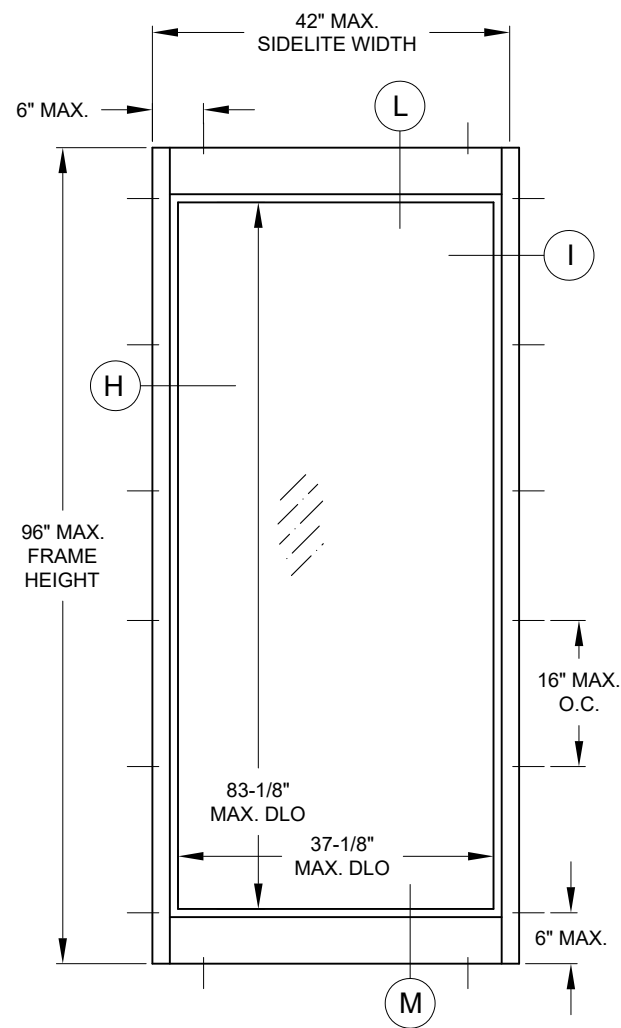
HINGES:

4" X 4-1/2" BUTT HINGES.
TOP AND BOTTOM HINGES AT 6-7/8" FROM EACH END.
INTERMEDIATE HINGES EQUALLY SPACED.
(3) HINGES PER PANEL UP TO 35" PANEL WIDTHS (STD. THRESHOLD ONLY).
(4) HINGES PER PANEL ABOVE 35" PANEL WIDTHS (STD. THRESHOLD).
(4) HINGES PER PANEL ALL WIDTHS (SADDLE THRESHOLD).

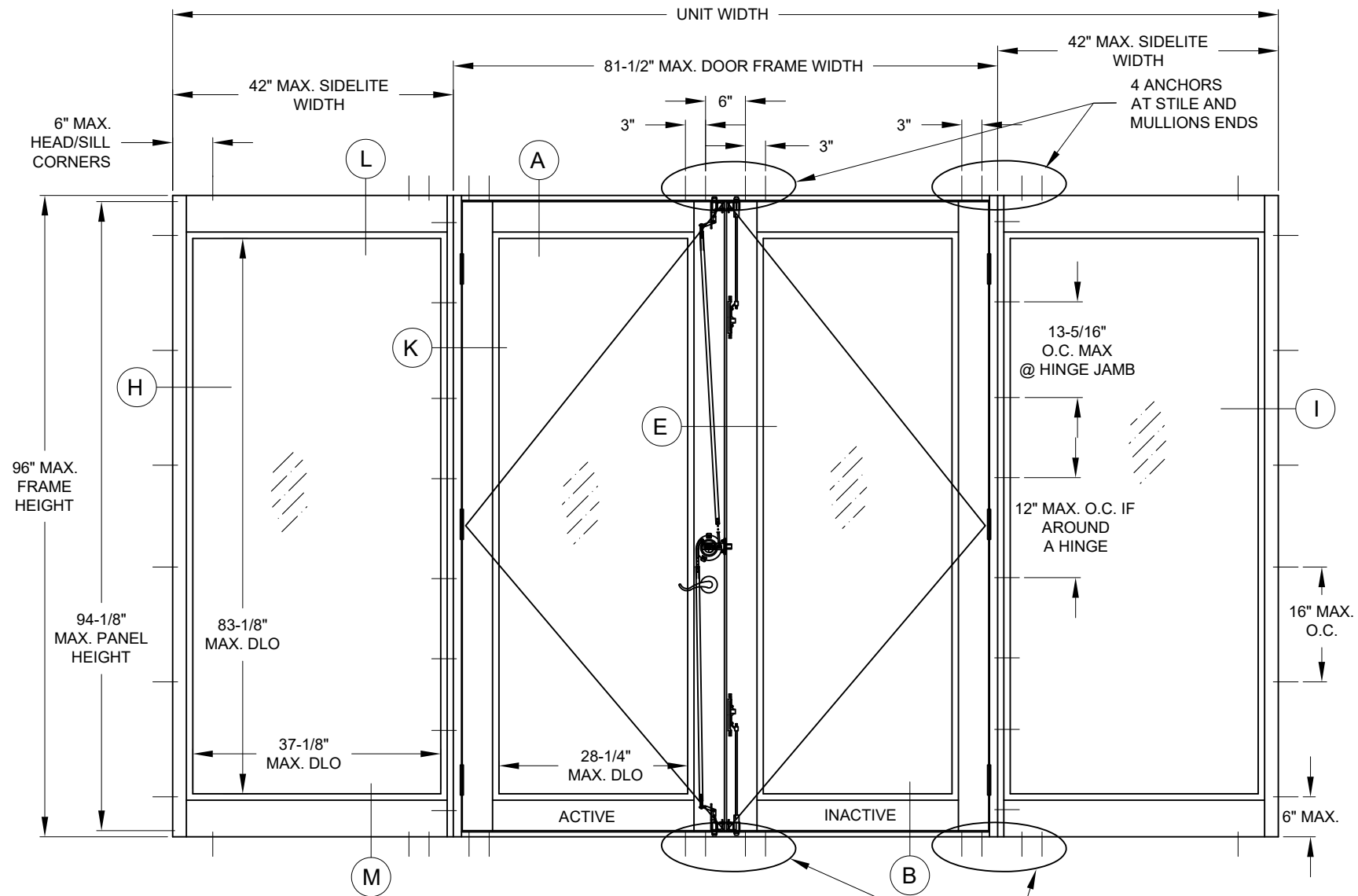
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	ALUMINUM OUTSWING DOOR (LM) Title		2 OF 16 Sheet		FD160 Desc.		2 OF 16 No.	



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O ELEVATION



OXXO ELEVATION
WITH STANDARD THRESHOLD

SIDELITE DLO DIMENSIONS:

DLO HEIGHT = FRAME HEIGHT - 12.875"

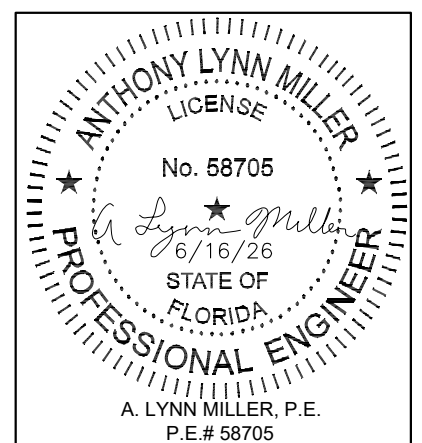
DLO WIDTH = SIDELITE WIDTH - 6" STAND ALONE SIDELITE ONLY

DLO WIDTH = SIDELITE WIDTH - 4.875" SIDELITE TO DOOR ONLY

NOTES:

1) THE LOWEST DESIGN PRESSURE VALUES FROM DOOR, SIDELITE OR MULLION TABLES (SHEET 4, 6) WILL APPLY TO ENTIRE SYSTEM.

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PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		ALUMINUM OUTSWING DOOR (LM)		SIDELITE ELEVATION		FD160	
				Date		By		Dwg No.	
								3 OF 16	
								Sheet	
								Title	



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TABLE 1:

DOOR DESIGN PRESSURE (DP)						
Glass Types: A1, A2, A3, B, C1, C2, & C3		Frame Heights up to 96"				
		Threshold		Lockset		
		STD.	ADA	SCH	CC	BLDW
Frame Width	37-1/4" (X)	+/-80	+/-70	+/-80	+/-80	+/-80
	42" (X)	+/-80	+/-70	+/-80	+/-80	+/-70
	72" (XX)	+/-80	+/-70	+/-80	+/-80	+/-80
	81-1/2" (XX)	+/-80	+/-70	+/-80	+/-80	+/-70

LOCK SETS:
SCH = SCHLAGE
CC = COPPER CREEK
BLDW = BALDWIN

DESIGN PRESSURE NOTES:

- 1) THE LOWEST VALUE FROM TABLES 1 TO 3 SHALL APPLY TO ENTIRE SYSTEM.
2) WATER TEST PRESSURE IS 15% OF THE LOWEST POSITIVE PRESSURE OF THE ENTIRE SYSTEM.
3) FLUSH BOLTS AND LOCKS MUST BE ENGAGED TO HEAD AND SILL DURING PERIODS OF HURRICANE WARNING.
4) SADDLE SILL NOT APPROVED FOR WATER INFILTRATION RESISTANCE. LIMITS MAX. DESIGN LOADS TO +/- 70.0 PSF.

TABLE 2:

SIDELITE OR WINDOW DESIGN PRESSURE (DP)								
		Frame Height						
		84"	90"			96"		
		Glass Types	Glass Types			Glass Types		
		A1, A2, A3, B, C1, C2 & C3	A1, A2, A3, B & C1	C2	C3	A1, A2, A3, B & C1	C2	C3
Frame Width	30"	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	33"	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	36"	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	37-1/8"	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80	+/-80
	39"	+/-80	+/-80	+/-80	+/-80	-	+/-70	+/-80
	42"	+/-80	-	+/-70	+/-80	-	+/-70	+/-80

TABLE 3:

MULLION DESIGN PRESSURE (DP)				
Sidelite Width	Door Panel Width	Frame Height		
		84"	90"	96"
24"	Up To 39-3/4"	+/-80	+/-80	+/-80
30"	Up To 39-3/4"	+/-80	+/-80	+/-80
33"	Up To 39-3/4"	+/-80	+/-80	+/-80
36"	Up To 39-3/4"	+/-80	+/-80	+/-78.3
37-1/8"	Up To 39-3/4"	+/-80	+/-80	+/-77.2
39"	Up To 39-3/4"	+/-80	+/-80	+/-75.4
42"	Up To 39-3/4"	+/-80	+/-80	+/-72.6

TABLE A:

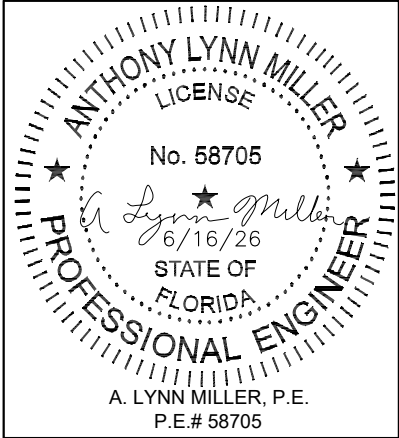
Group	Anchor	Substrate	Min. Edge Distance	Min. Embedment
A	1/4" Hilti Kwik-Con II	Southern Pine, (SG=0.55)	1"	1-1/2"
	1/4" DeWalt Ultracon+	Southern Pine, (SG=0.55)	1"	1-1/2"
B	1/4" Hilti Kwik-Con II	Concrete, (min. 3 ksi)	2-1/2"	1-3/4"
	1/4" DeWalt Ultracon+	Concrete, (min. 3 ksi)	2-1/2"	1-1/4"
C	1/4" Teks or steel SMS (G5)	Aluminum, min. 1/8" 6063-T5	3/4"	1/8"
		Steel, min. 1/8" 36 ksi	3/4"	1/8"

ANCHOR NOTES:

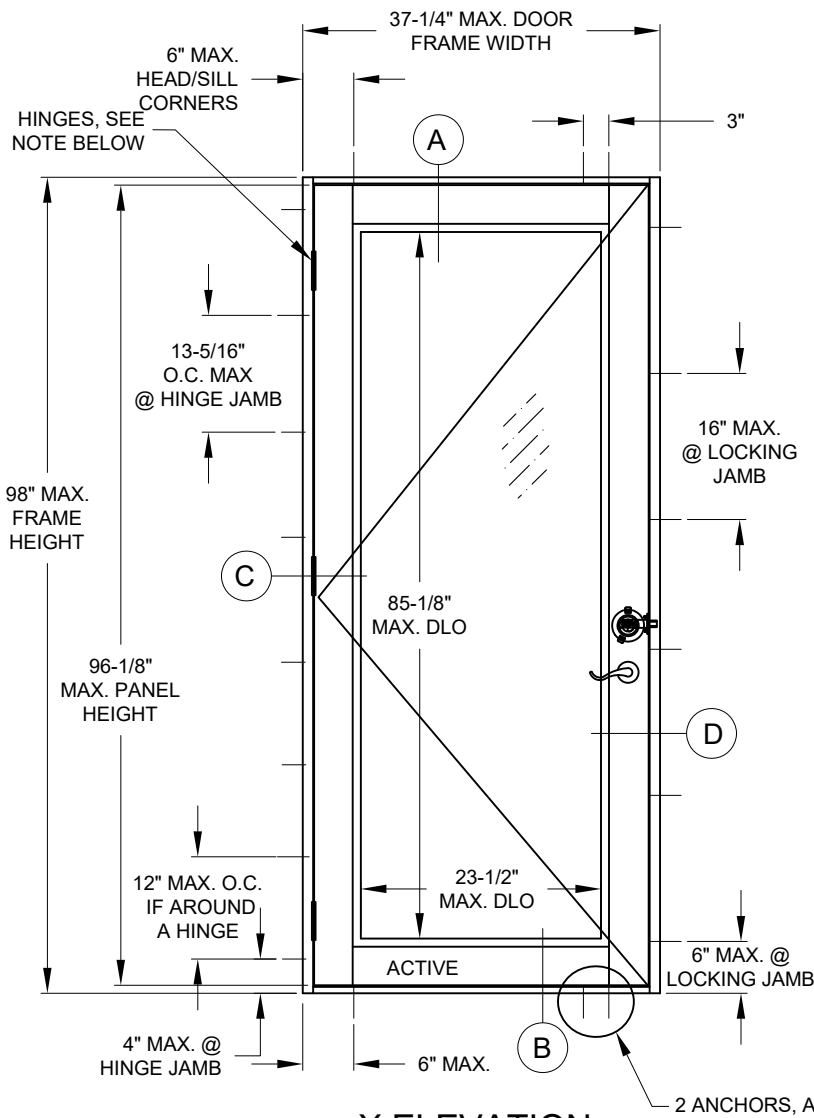
- 1) MIN. OF 3 THREADS BEYOND THE METAL SUBSTRATE. FOR ANCHOR GROUP C.
2) METAL SUBSTRATE TO MEET MIN. STRENGTH AND THICKNESS REQUIREMENTS PER CURRENT FLORIDA BUILDING CODE.
3) ALL ANCHOR HEAD TYPES ARE APPLICABLE.

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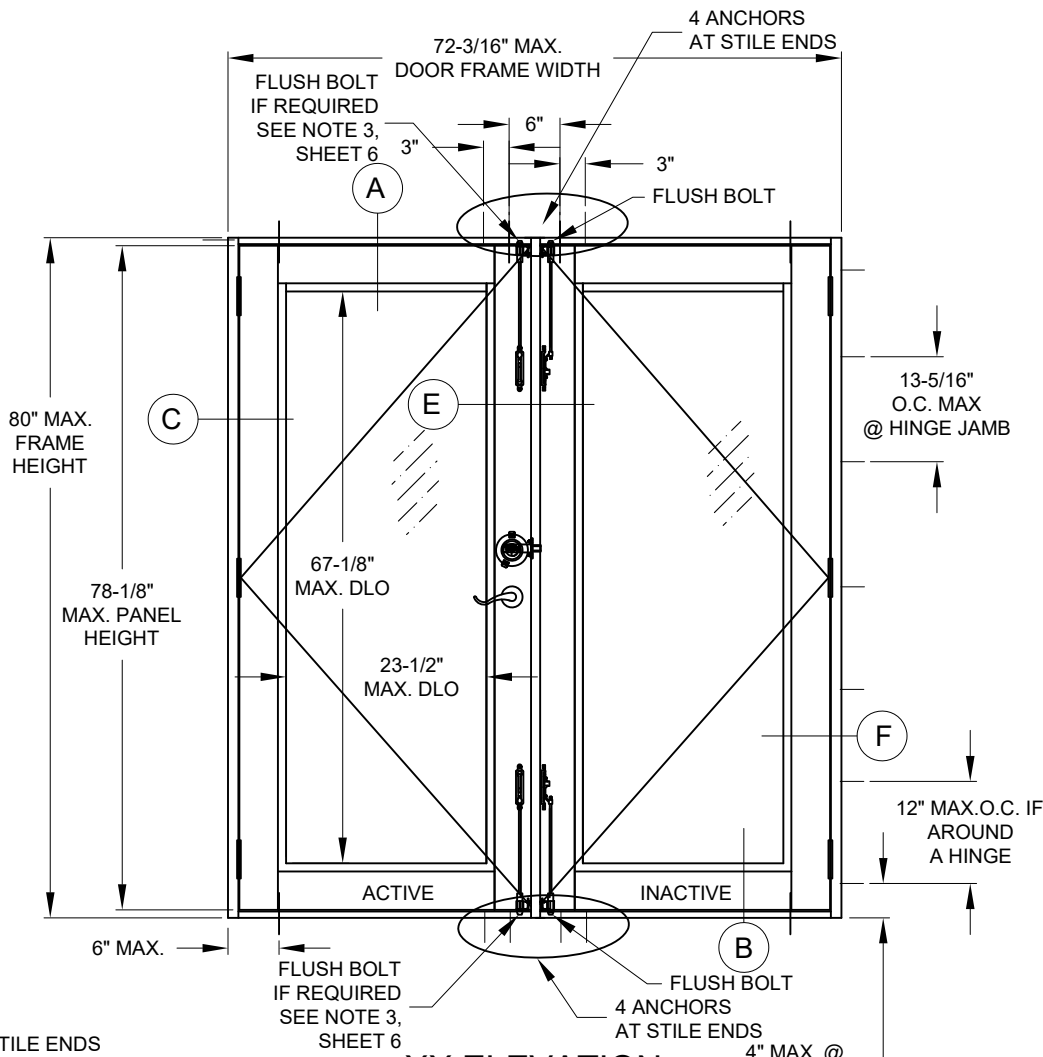
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FD160		4 OF 16		160FPA-LM	
Series		Desc.		Title	
DP TABLES		By		Date	
FD160		No.		08/12/25	
Sheet		Dwg		160FPA-LM	
4 OF 16		JENS ROSOWSKI		160FPA-LM	



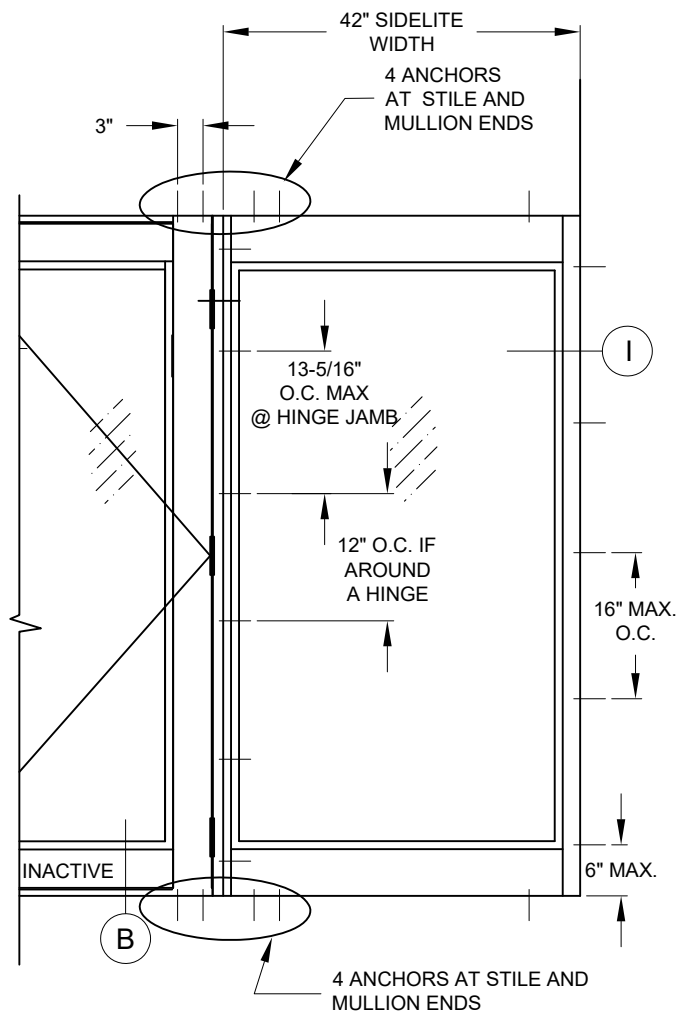
SINGLE POINT LOCK



X ELEVATION
WITH STANDARD THRESHOLD



XX ELEVATION
WITH STANDARD THRESHOLD



XXO ELEVATION
WITH STANDARD THRESHOLD

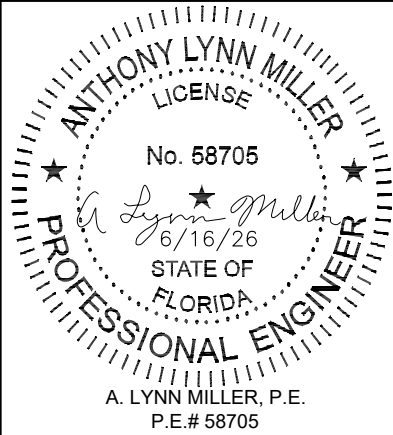
DOOR DLO DIMENSIONS:

DLO HEIGHT = FRAME HEIGHT - 12.875"
DLO WIDTH (X DOORS) = FRAME WIDTH - 13.75"
DLO WIDTH (XX DOORS) = (FRAME WIDTH - 25") / 2

HINGES:

- 1) 4" X 4-1/2" BUTT HINGES.
- 2) TOP AND BOTTOM HINGES AT 6-7/8" FROM EACH END AND ONE HINGE AT CENTER.
- 3) (3) HINGES PER PANEL.

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	ALUMINUM OUTSWING DOOR (LM)	By	Rev.
	DOOR ELEVATION (SINGLE POINT)	JENS ROSOWSKI	Rev.
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Added Active Panel	FLUSH BOLTS FOR XX - CK	

TABLE 4A: SINGLE DOOR , SINGLE POINT LOCK

DOOR DESIGN PRESSURE (DP)						
Table applies to: Glass Type D Standard Threshold		Frame Height				
		84"	88"	90"	96"	98"
Frame Width	30" (X)	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65
	33" (X)	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65
	36" (X)	+60/-65	+60/-65	+60/-63.9	+60/-60.7	+59.6/-59.6
	37-1/4" (X)	+60/-63	+60/-60.9	+60/-60.1	+57.5/-57.5	+56.6/-56.6

TABLE 4B: SINGLE DOOR , SINGLE POINT LOCK

DOOR DESIGN PRESSURE (DP)		
Table applies to: Glass Types A2 & E. Standard Threshold		Frame Heights up to 98"
Frame Width	37 1/4" (X)	+60/-65

SINGLE POINT LOCK

TABLE 5A: DOUBLE DOOR , SINGLE POINT LOCK

DOOR DESIGN PRESSURE (DP)							
Table applies to: Glass Type D Standard Threshold		Frame Height					
		80"	84"	88"	90"	96"	98"
Frame Width	48" (XX)	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65
	60" (XX)	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65
	64" (XX)	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65
	72 3/16" (XX)	+60/-65	+60/-62.5	+60/-60.4	+60/-60	+56.9/-56.9	+56/-56

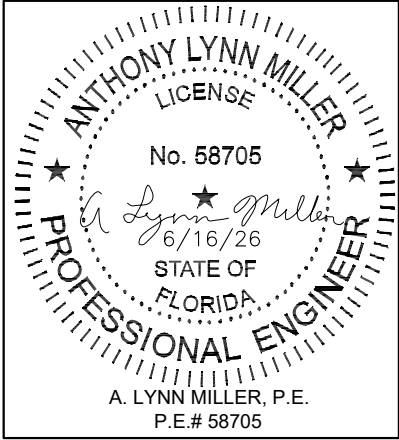
TABLE 5B: DOUBLE DOOR , SINGLE POINT LOCK

DOOR DESIGN PRESSURE (DP)							
Table applies to: Glass Types A2 & E Standard Threshold		Frame Height					
		80"	84"	88"	90"	96"	98"
Frame Width	48" (XX)	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65
	60" (XX)	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65
	64" (XX)	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65	+60/-65
	72 3/16" (XX)	+60/-65	+60/-65	+60/-65	+60/-65	+60/-61.3	+60/-60

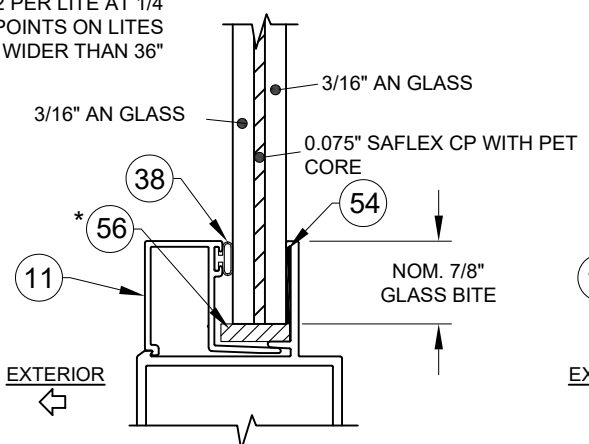
DESIGN PRESSURE NOTES:
1) WATER TEST PRESSURE IS 15% OF THE LOWEST POSITIVE PRESSURE OF THE ENTIRE SYSTEM.
2) FLUSH BOLTS AND LOCKS MUST BE ENGAGED TO HEAD AND SILL DURING PERIODS OF HURRICANE WARNING.
3) FACE-MOUNTED FLUSH BOLTS REQUIRED TOP AND BOTTOM ON ACTIVE PANEL FOR DOUBLE DOORS OVER 80" IN HEIGHT WITH SINGLE POINT LOCK.

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Date
ADDED TABLE 5A & 5B - CK
Rev.

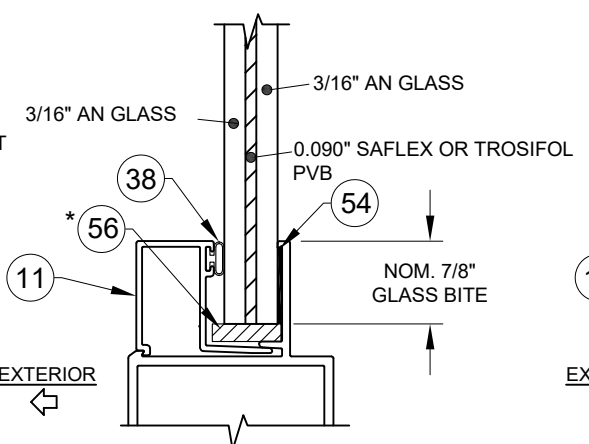
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				08/12/25		JENS ROSOWSKI		6 OF 16	
DP TABLES (SINGLE POINT)		FD160		Sheet		6 OF 16		Dwg No.	
Series		Desc.		Title		6 OF 16		Dwg No.	



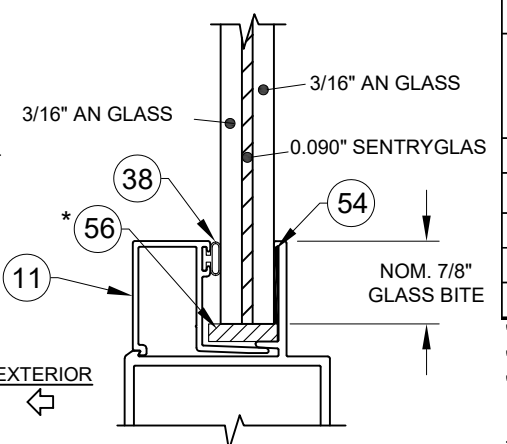
* 2 PER LITE AT 1/4
POINTS ON LITES
WIDER THAN 36"



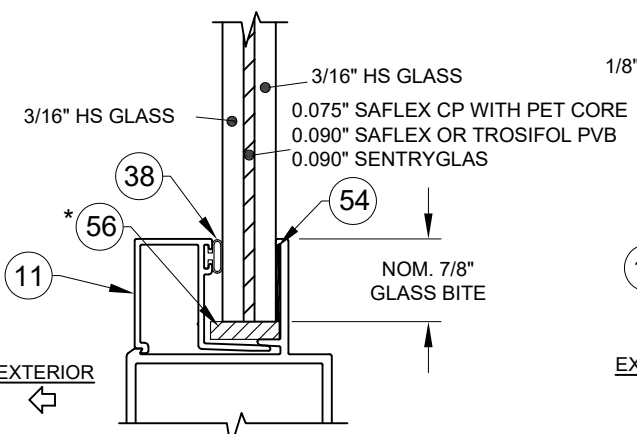
GLASS TYPE A1
7/16" NOM. THICKNESS



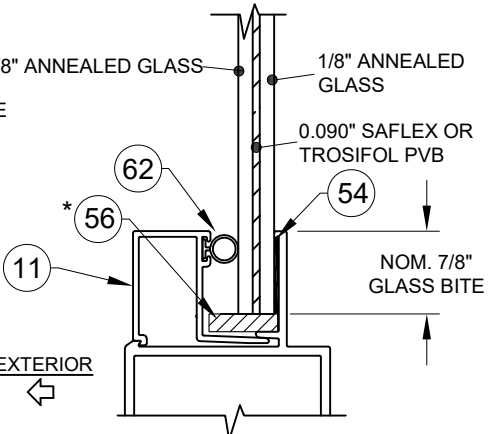
GLASS TYPE A2
7/16" NOM. THICKNESS



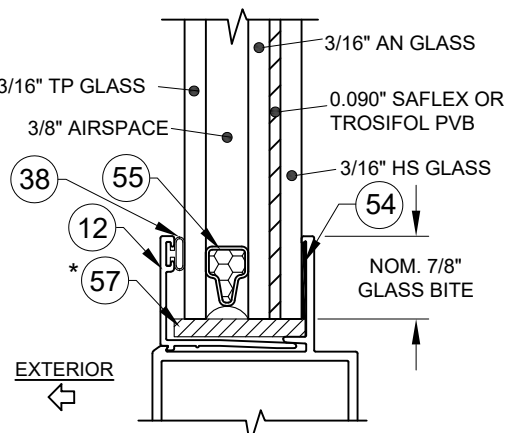
GLASS TYPE A3
7/16" NOM. THICKNESS



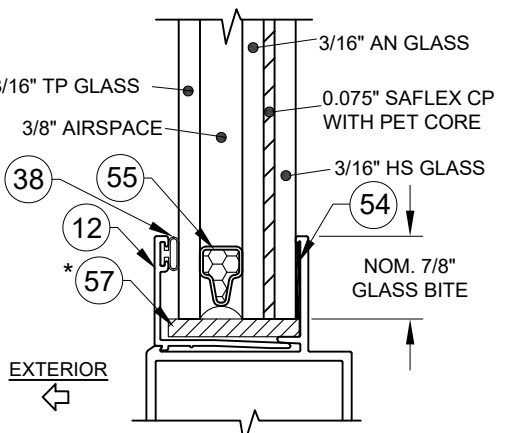
GLASS TYPE B
7/16" NOM. THICKNESS



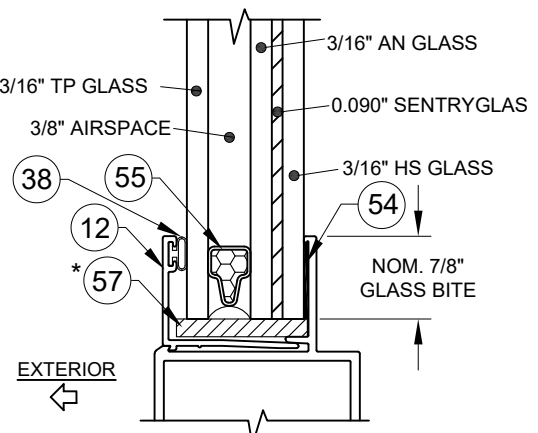
GLASS TYPE D
5/16" NOM. THICKNESS



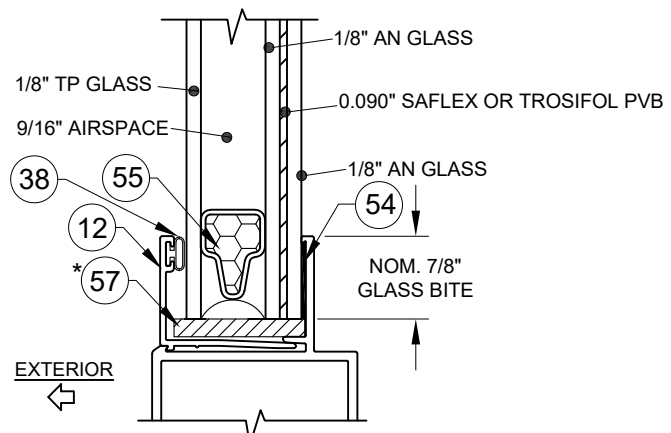
GLASS TYPE C1
1" NOM. THICKNESS



GLASS TYPE C2
1" NOM. THICKNESS



GLASS TYPE C3
1" NOM. THICKNESS



GLASS TYPE E
1" NOM. THICKNESS

TABLE B:

Glass Type	Description (Listed from Exterior to Interior)
A1	7/16" Lami.: 3/16" AN - 0.075" SAFLEX CP WITH PET CORE INTERLAYER - 3/16" AN
A2	7/16" Lami.: 3/16" AN - 0.090" SAFLEX OR TROSIFOL PVB - 3/16" AN
A3	7/16" Lami.: 3/16" AN - 0.090" SENTRYGLAS INTERLAYER - 3/16" AN
B	7/16" Lami.: 3/16" HS - 0.075" SAFLEX CP WITH PET CORE INTERLAYER - 3/16" HS
	7/16" Lami.: 3/16" HS - 0.090" SAFLEX OR TROSIFOL PVB - 3/16" HS
	7/16" Lami.: 3/16" HS - 0.090" SENTRYGLAS INTERLAYER - 3/16" HS
C1	1" Lami. I.G.: 3/16" TP - AIR - 3/16" AN - 0.090" SAFLEX OR TROSIFOL PVB - 3/16" HS
C2	1" Lami. I.G.: 3/16" TP - AIR - 3/16" AN - 0.075" SAFLEX CP WITH PET CORE INTERLAYER - 3/16" HS
C3	1" Lami. I.G.: 3/16" TP - AIR - 3/16" AN - 0.090" SENTRYGLAS INTERLAYER - 3/16" HS
D	5/16" Lami. I.G.: 1/8" AN - 0.090" SAFLEX OR TROSIFOL PVB - 1/8" AN
E	1" Lami. I.G.: 1/8" TP - AIR - 1/8" AN - 0.090" SAFLEX OR TROSIFOL PVB - 1/8" AN

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

.075" SAFLEX CP WITH PET CORE & 0.090" SAFLEX PVB GLASS BY EASTMAN
CHEMICAL CO.

0.090" SENTRYGLAS & 0.090" TROSIFOL PVB BY KURARAY AMERICA, INC.

PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

PGT WINDOWS and DOORS
3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

08/12/25
Date

JENS ROSOWSKI
By

160FPA-LM
DWG No.

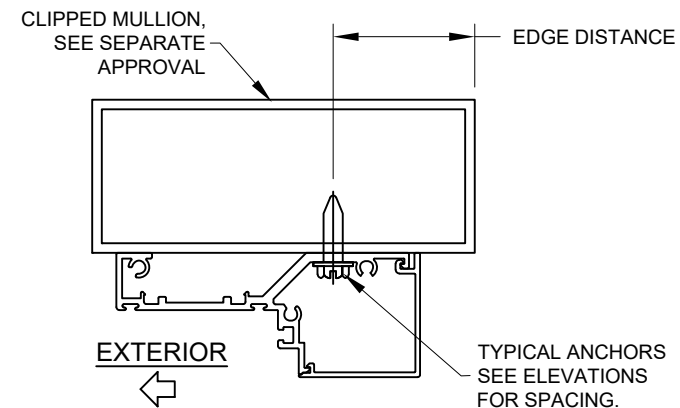
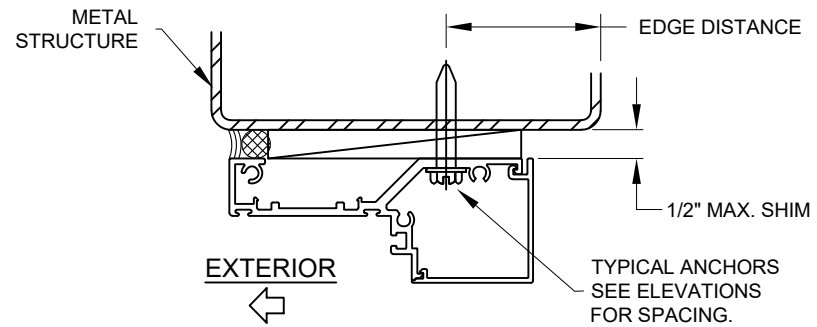
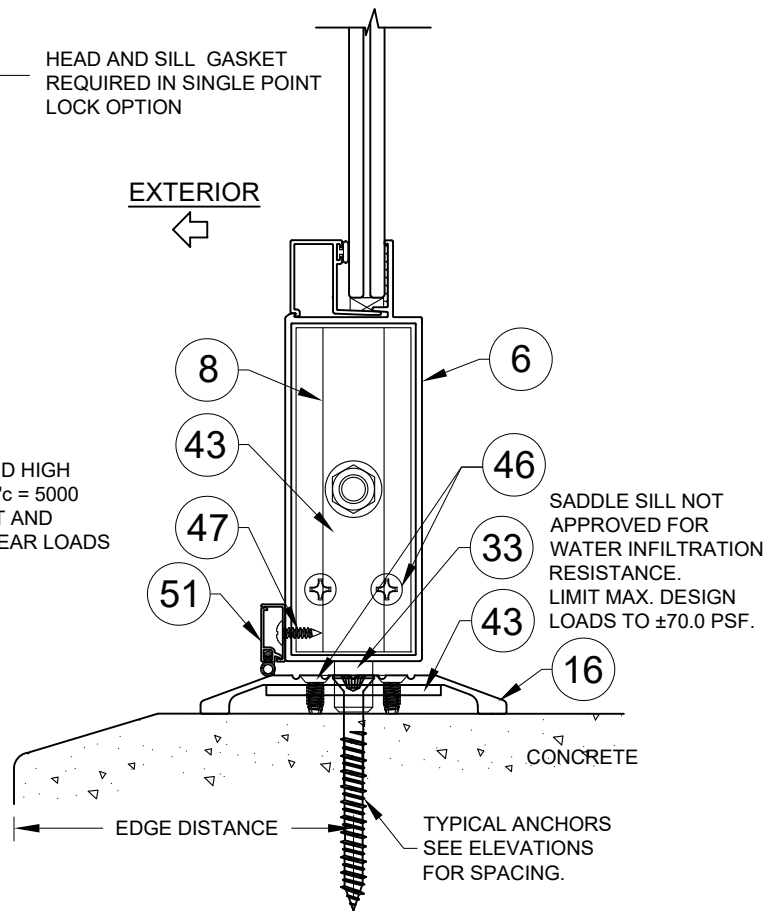
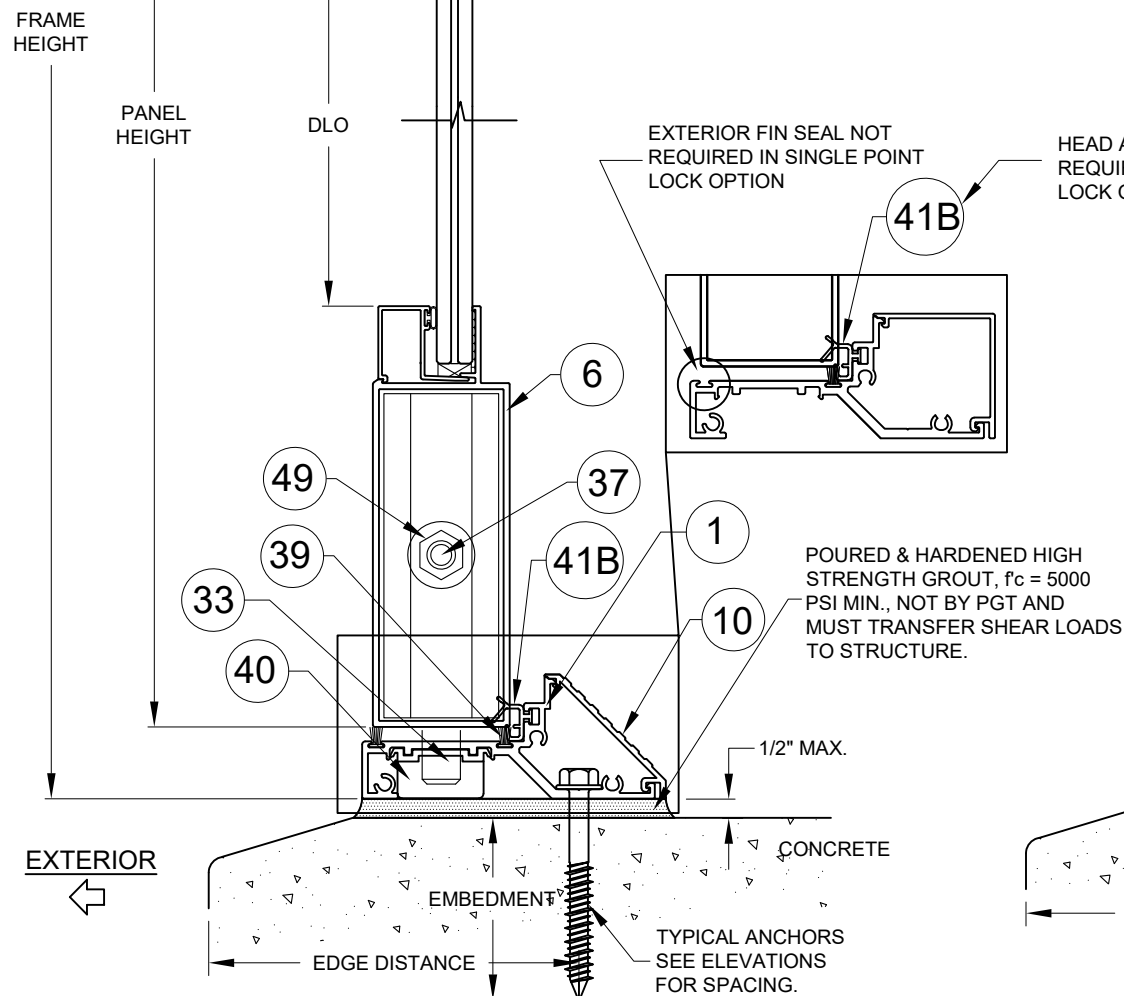
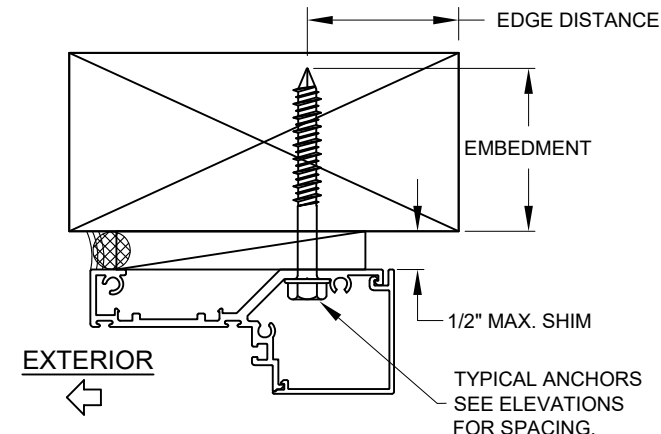
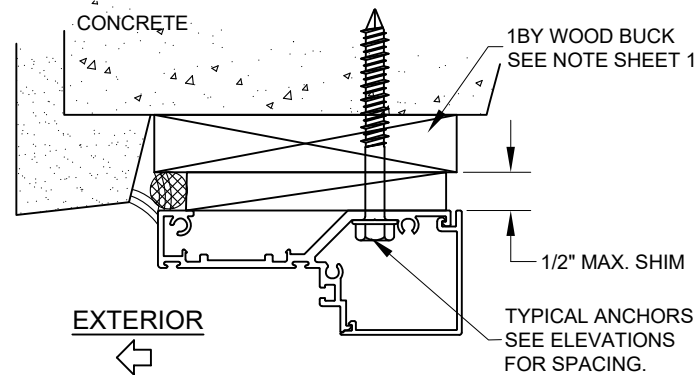
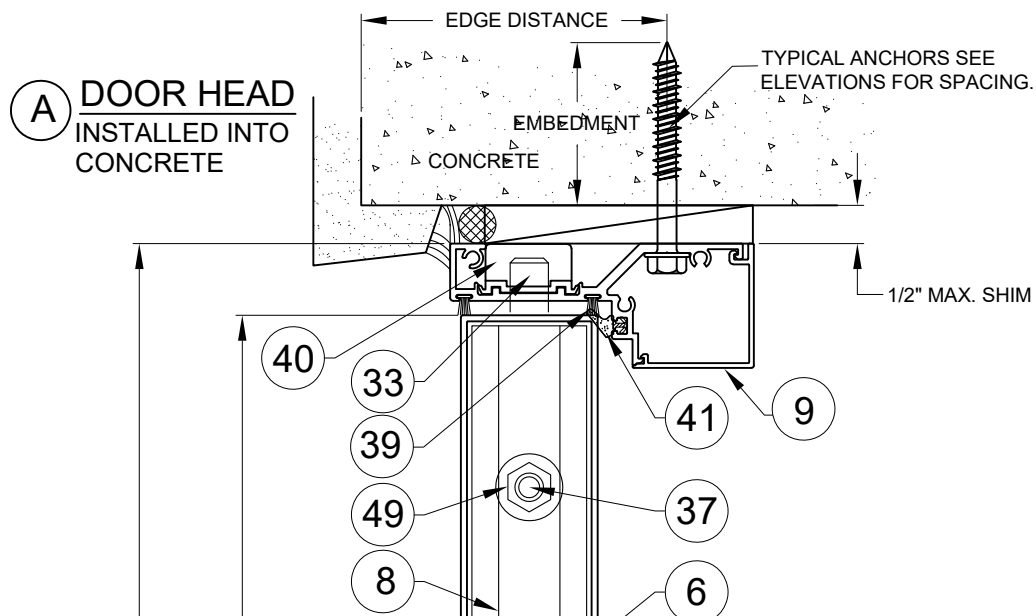
7 OF 16
Sheet

FD160
Series

ALUMINUM OUTSWING DOOR (LM)
Title

GLAZING DETAILS
Desc.

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/16/26
STATE OF
FLORIDA
A. LYNN MILLER, P.E.
P.E.# 58705



B DOOR STANDARD SILL
INSTALLED INTO CONCRETE

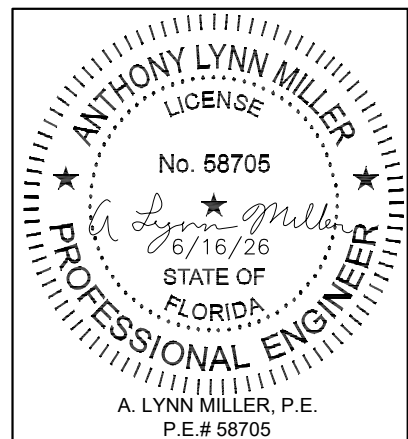
B DOOR SADDLE (ADA) SILL
INSTALLED INTO CONCRETE
NOTE: NOT APPROVED FOR SINGLE POINT OPTION

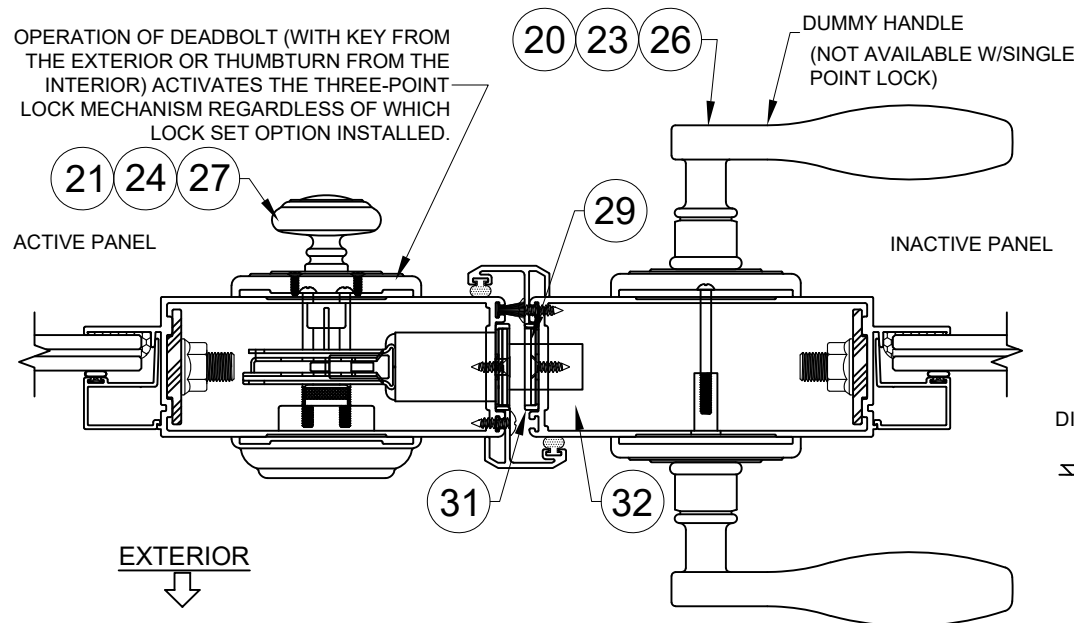
A DOOR HEAD
INSTALLED INTO WOOD

A DOOR HEAD
INSTALLED INTO METAL FRAMING

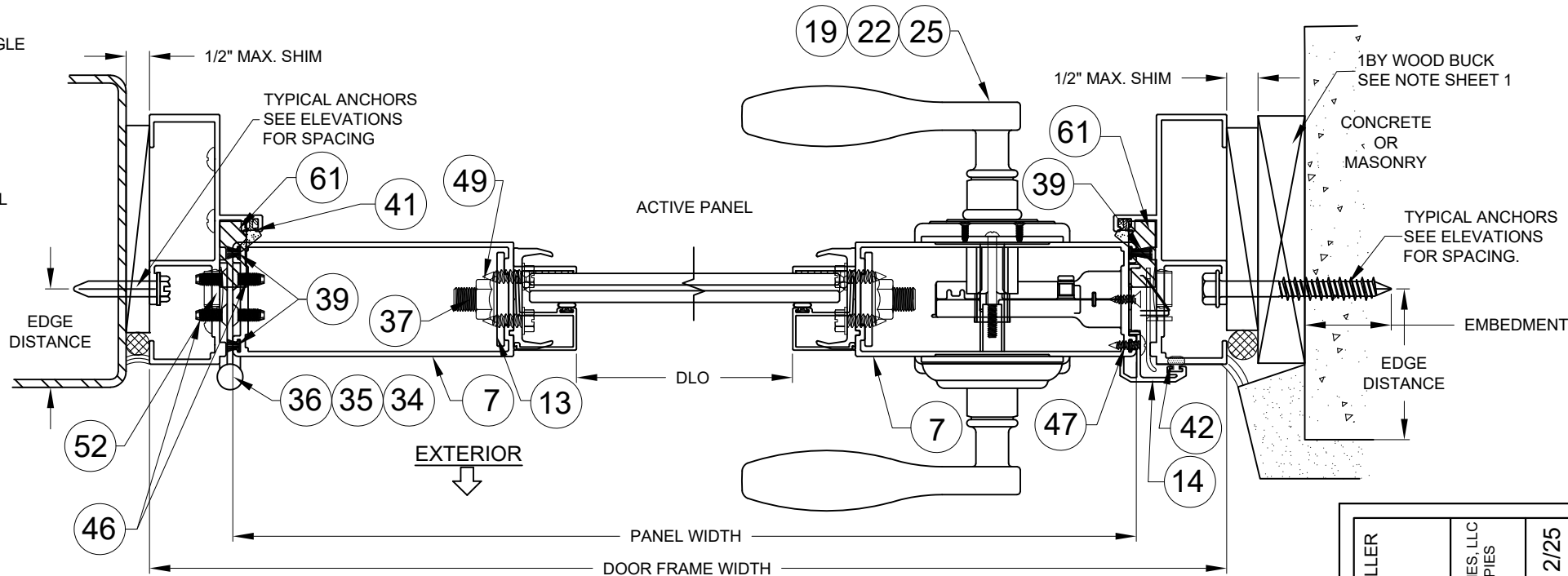
A DOOR HEAD
INSTALLED INTO MULLION

PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		COPYRIGHT © 2026 PGT INDUSTRIES, LLC LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		08/12/25 Date		JENS ROSOWSKI Drawn By		160FPA-LM No.		8 OF 16 Sheet		FD160 Series Desc. Title	
PGT WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		ALUMINUM OUTSWING DOOR (LM)		VERTICAL SECTION		160FPA-LM		8 OF 16		8 OF 16		FD160	



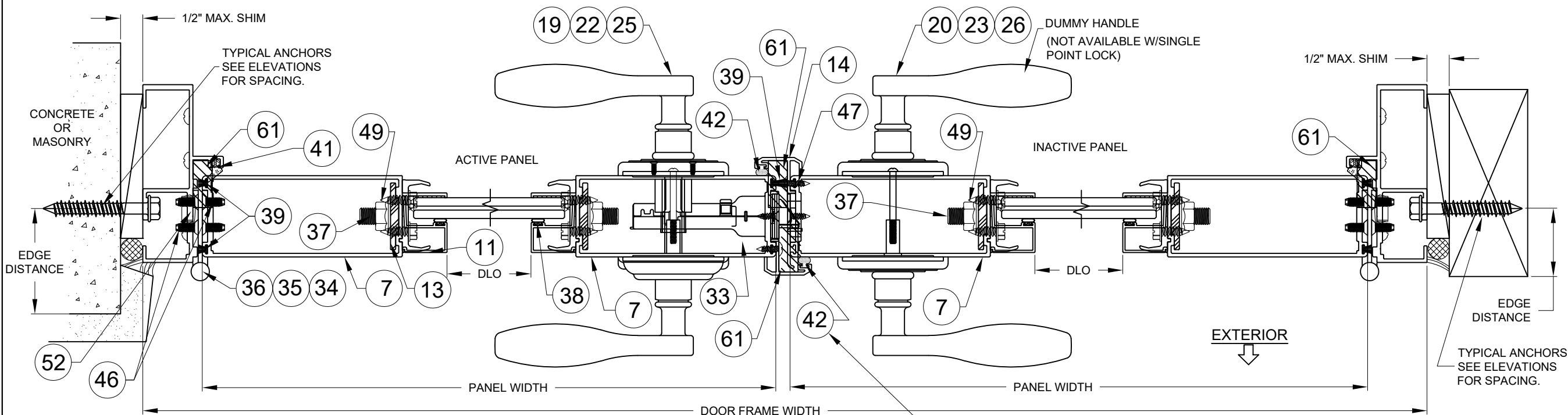


E DOOR XX ASTRAGAL
DEADBOLT LOCK DETAIL



C DOOR JAMB
INSTALLED INTO METAL FRAMING

D DOOR JAMB
INSTALLED THRU 1XBUCK



C DOOR JAMB
INSTALLED INTO CONCRETE

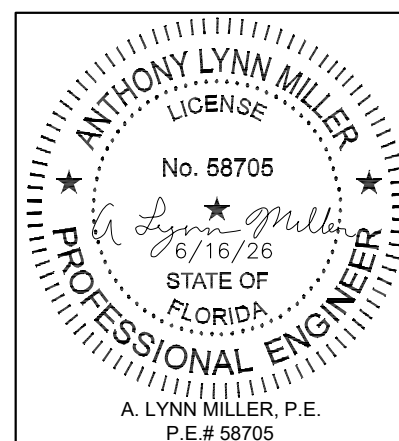
E DOOR XX ASTRAGAL

BULB NOT REQUIRED IN ACTIVE
PANEL SINGLE POINT LOCK
OPTION

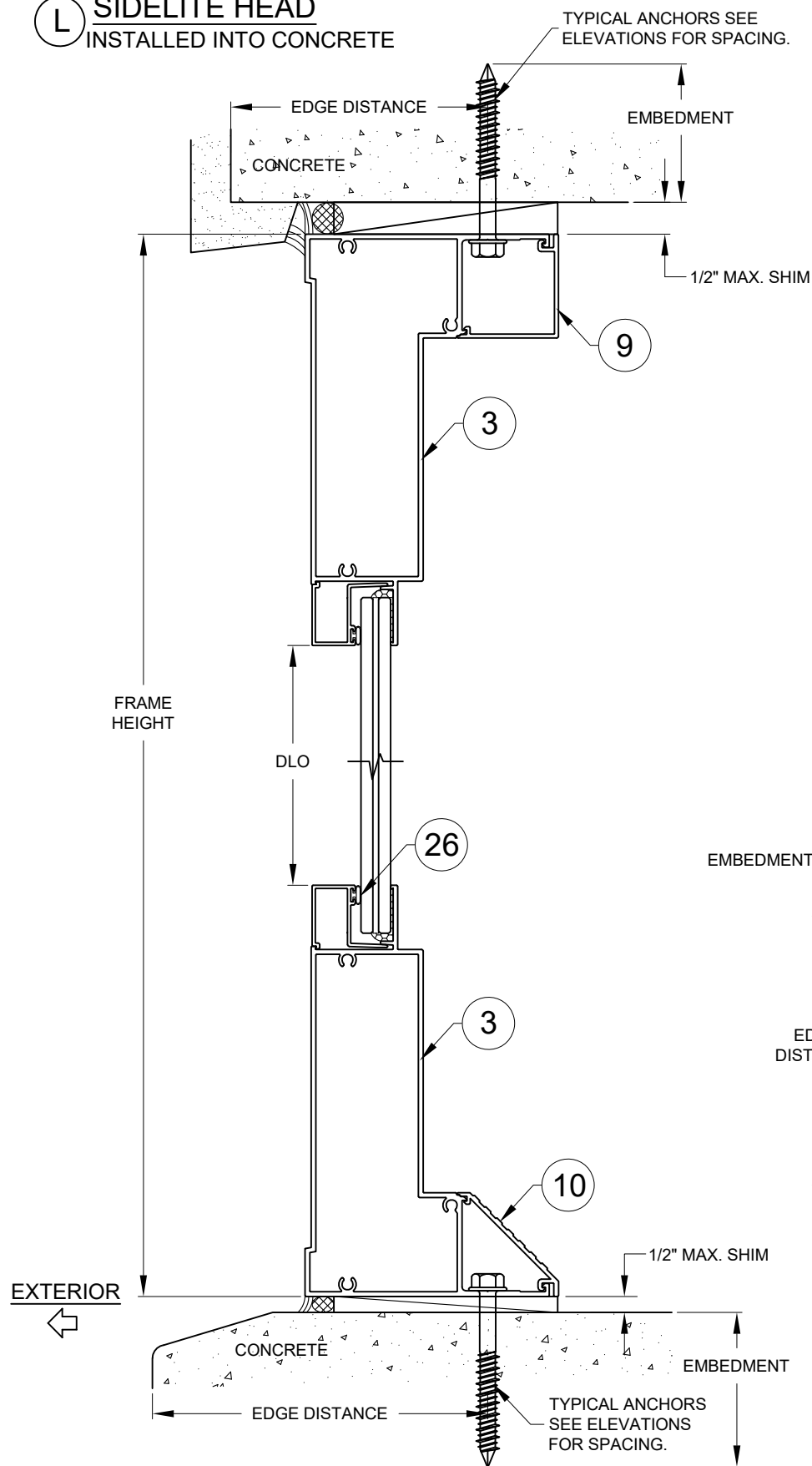
F DOOR JAMB
INSTALLED INTO WOOD

Rev. # 6/16/26
Date
NO CHANGES THIS SHEET
Rev.

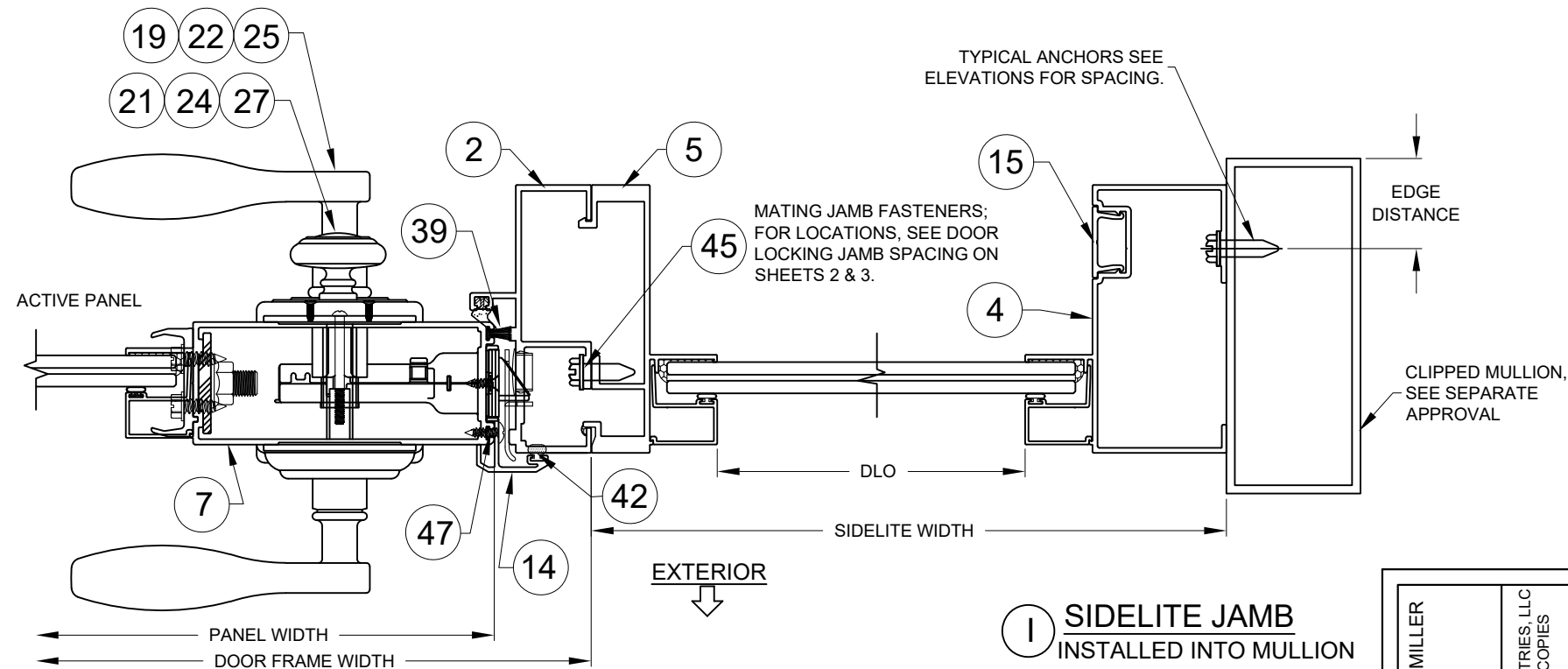
PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		JENS ROSOWSKI 160FPA-LM	
PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296		ALUMINUM OUTSWING DOOR (LM) HORIZONTAL SECTION FD160	
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L SIDELITE HEAD INSTALLED INTO CONCRETE

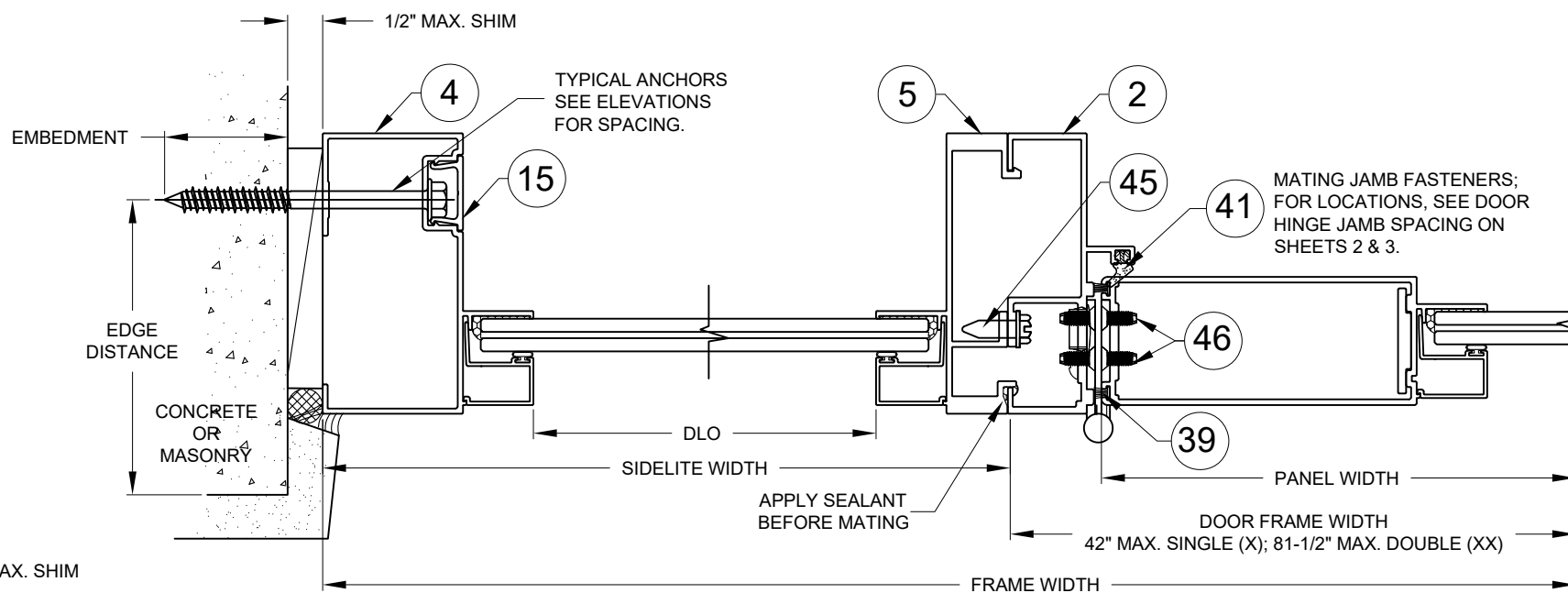


M SIDELITE SILL INSTALLED INTO CONCRETE



J DOOR LOCK JAMB-TO-SIDELITE

I SIDELITE JAMB INSTALLED INTO MULLION

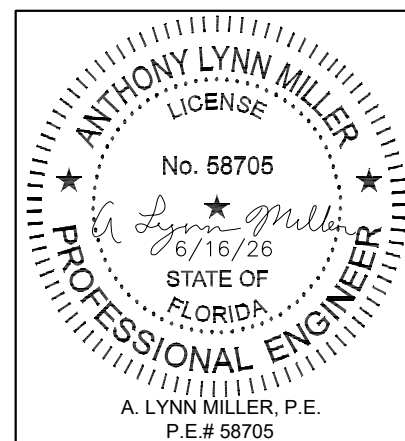


H SIDELITE JAMB INSTALLED INTO CONCRETE

K SIDELITE-TO-DOOR HINGE JAMB

EXTERIOR
↓

PGT[®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 COPYRIGHT © 2026 PGT INDUSTRIES, LLC LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
REGISTRATION #29296			
ALUMINUM OUTSWING DOOR (LM)		Date	08/12/25
SIDELITE DETAILS		Drawn By	JENS ROSOWSKI
FD160	10 OF 16	No. DWG	160FPA-LM



Rev. #	6/16/26	Date	NO CHANGES THIS SHEET	Rev.
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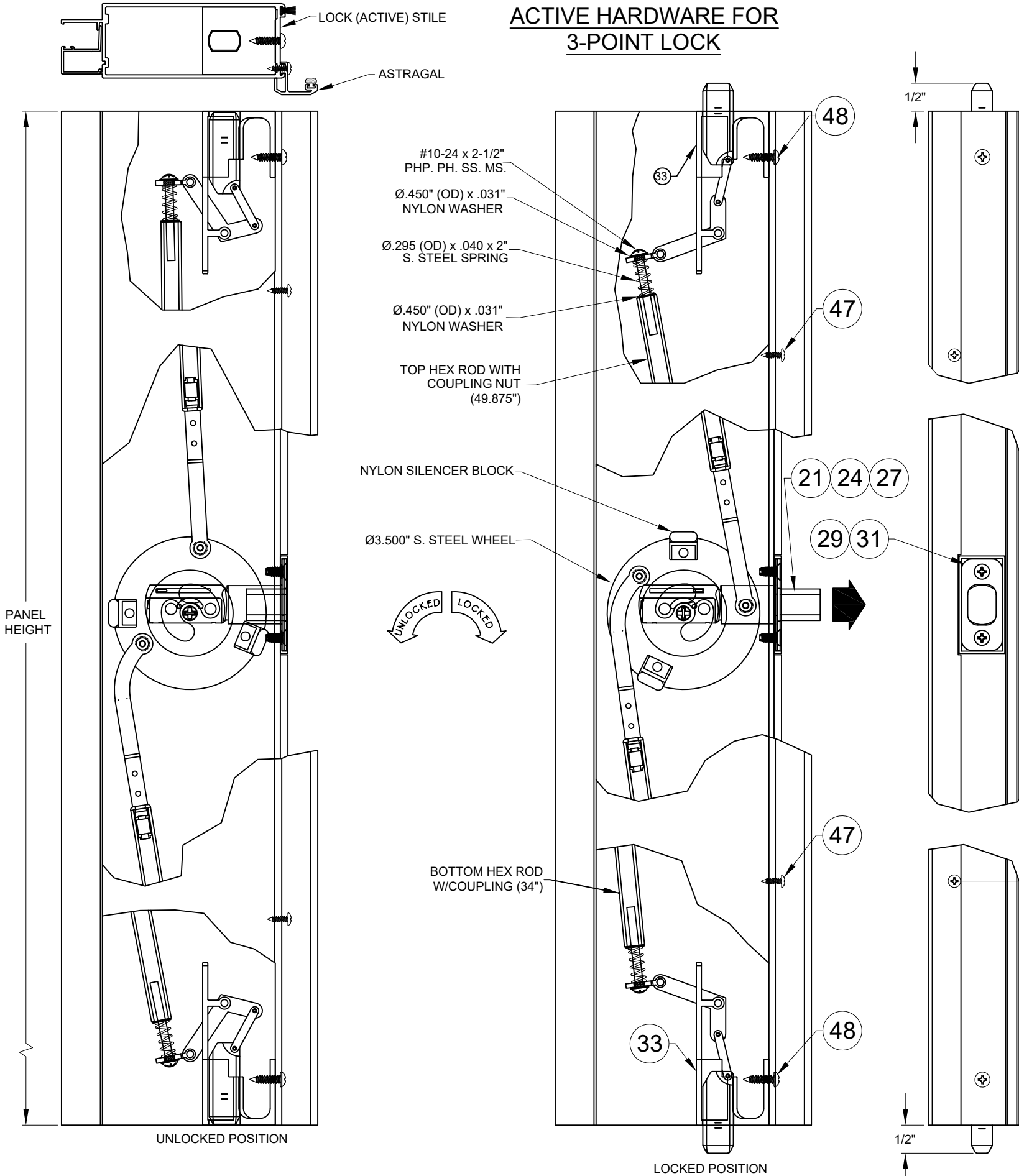


TABLE 6, ACTIVE PANEL LOCKING HARDWARE:

ITEM	PART No.	DESCRIPTION		MATERIAL
17	-	3 POINT LOCK ASSY		METAL
19	710114TB	LEVER LATCH LOCK	LOCK SET OPTION 1	TUSCAN BRONZE
21	72410TB	DEADBOLT THUMBTURN		
22	71115PBZ	LEVER LATCH LOCK	LOCK SET OPTION 2	POLISHED BRASS
24	72410PBZ	DEADBOLT THUMBTURN		
25	710116X	LEVER LATCH LOCK	LOCK SET OPTION 3	SATIN STEEL
27	72410SNX	DEADBOLT (THUMBTURN)		
28	-	LATCH LOCK STRIKE PLATE & 1/8" x 3/4" PHP. FH. SMS.		S.STEEL
29	-	DEADBOLT STRIKE PLATE & 1/8" x 3/4" PHP. FH. SMS.		S.STEEL
30	-	LATCH LOCK STRIKE PLATE SHIM		NYLON
31	-	LATCH LOCK & DEADBOLT STRIKE PLATE TRIM		NYLON
32	-	LATCH LOCK & DEADBOLT PROTECTIVE DUST BOX		NYLON
33	-	FLUSH BOLT ASSEMBLY		S.STEEL
33A	-	FLUSH BOLT GUIDE (TOP & BOTTOM)		CAST (ZINC)
40	7203K	SHOOT BOLT PROTECTOR @ DOOR FRAME HEAD & SILL		PVC
48	7S134X	#10 x 3/4" PHP. PH. SMS. (BOLT LOCK/FLUSHBOLT GUIDE ASSY.)		S. STEEL

ACTIVE PANEL STILE
LOCKING HARDWARE

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(941) 480-1600

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3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600
REGISTRATION #29296

ALUMINUM OUTSWING DOOR (LM)

LOCK DETAILS

FD160

11 OF 16

160FPA-LM

08/12/25

JENS ROSOWSKI

By

Date

Drawn

No.

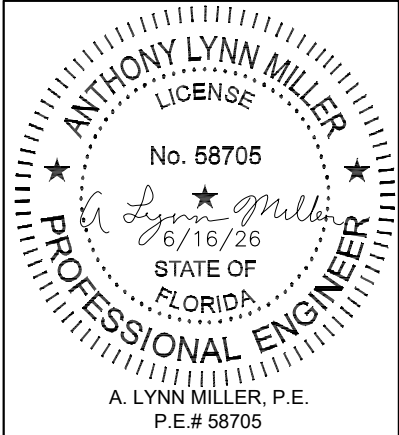
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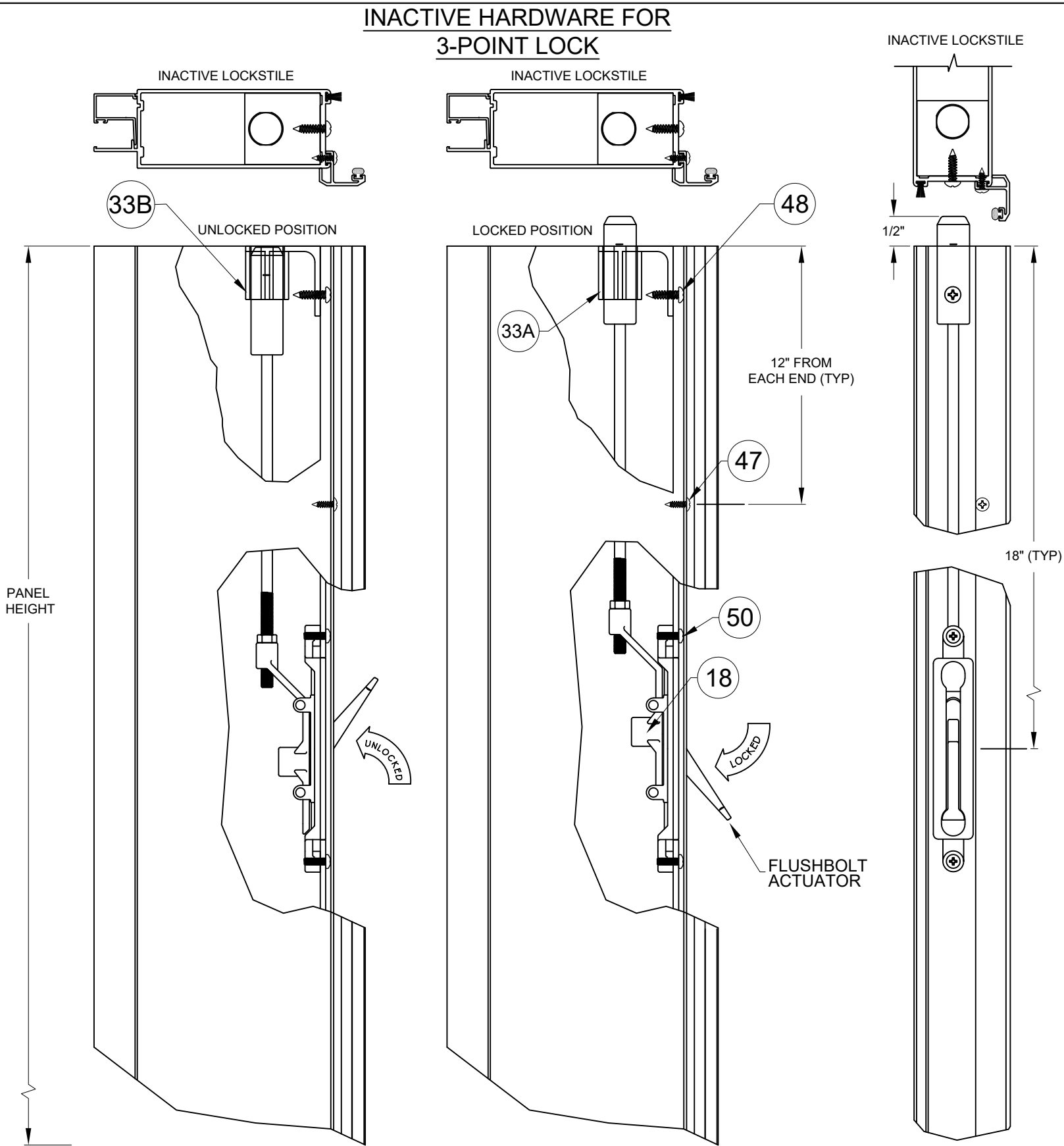
Sheet

Desc.

Title

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PARTIAL TOP END SECTION SHOWN, BOTTOM END SIMILAR

TABLE 7, INACTIVE PANEL LOCKING HARDWARE:

ITEM	PART No.	DESCRIPTION		MATERIAL
18	-	FLUSHBOLT ASSEMBLY		ALLOY, STEEL
20	710117	DUMMY LEVER	LOCK SET OPTION 1	T. BRONZE
23	710119	DUMMY LEVER	LOCK SET OPTION 2	S. STAINLESS
26	710121	DUMMY LEVER	LOCK SET OPTION 3	P. BRONZE
28	-	LATCH LOCK STRIKE PLATE & 1/8" x 3/4" PHP. FH. SMS.		S.STEEL
33	-	FLUSH BOLT ASSEMBLY		S.STEEL
33A	-	FLUSH BOLT GUIDE (TOP & BOTTOM)		CAST (ZINC)
40	-	SHOOT BOLT PROTECTOR @ DOOR FRAME HEAD & SILL		PVC
48	7S134X	#10 x 3/4" PHP. PH. SMS. (BOLT LOCK/ FLUSHBOLT GUIDE ASSY.)		S. STEEL
50	78X12PPSMSX	#8-32 x 1/2" PHP. PH. HS. (FLUSHBOLT LEVER ASSEMBLY)		S. STEEL

INACTIVE PANEL STILE
LOCKING HARDWARE

PGT[®]

WINDOWS and DOORS

3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
N. VENICE, FL 34275
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ALUMINUM OUTSWING DOOR (LM)

LOCK DETAILS

FD160

12 OF 16

160FPA-LM

ByJENS ROSOWSKI

Date08/12/25

ANTHONY LYNN MILLER

LICENSE

No. 58705

6/16/26

STATE OF FLORIDA

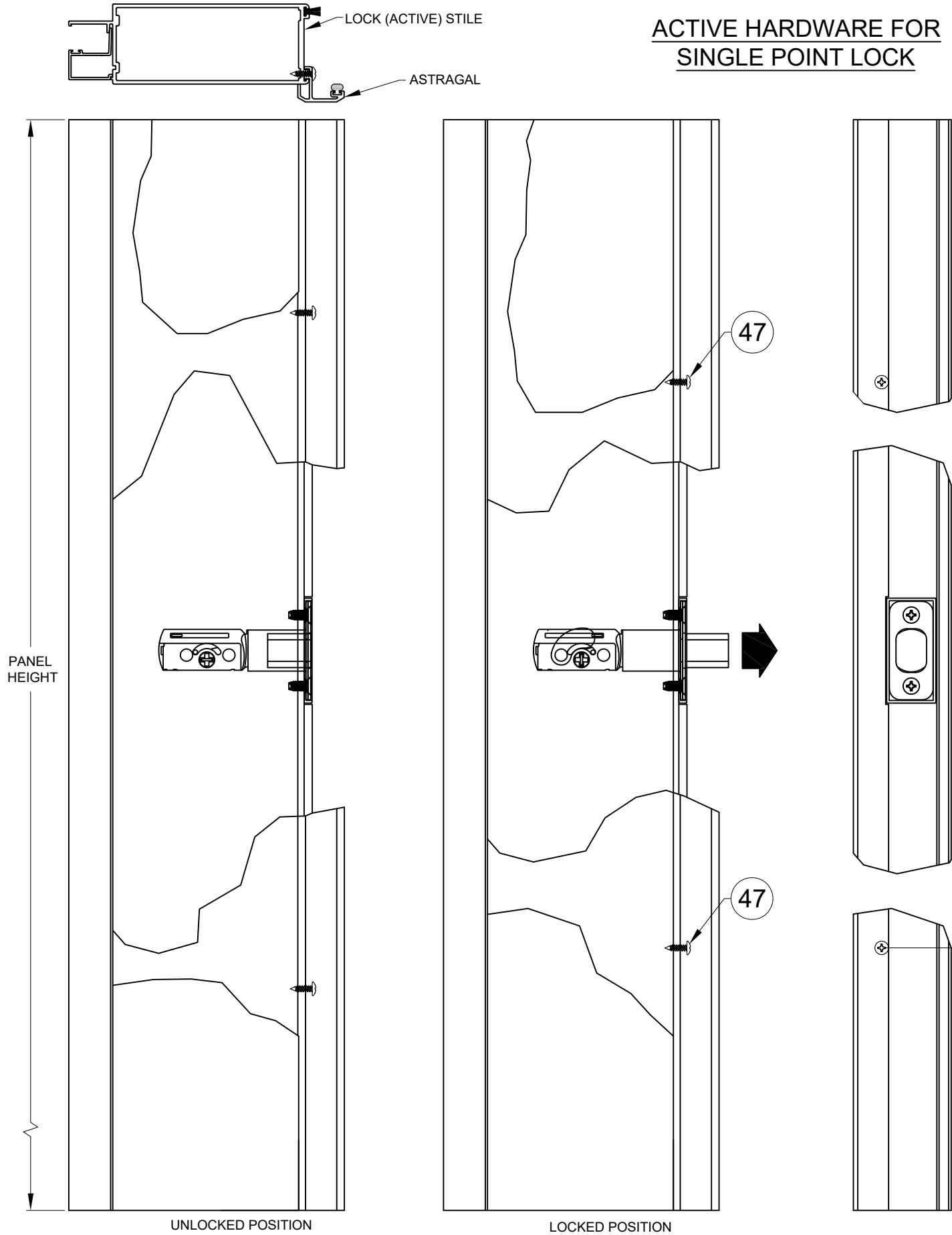
PROFESSIONAL ENGINEER

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

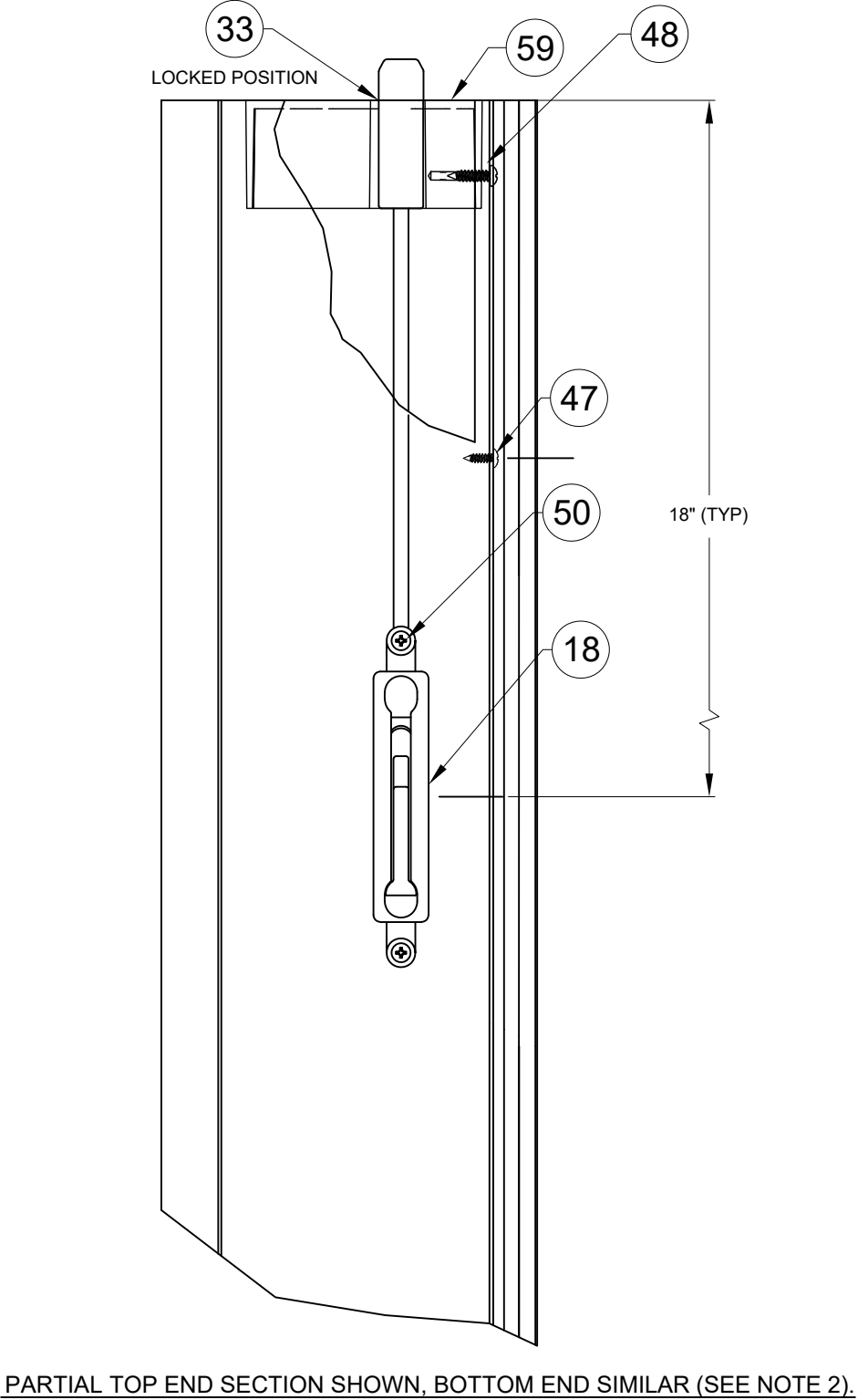
Rev.#6/16/26

NO CHANGES THIS SHEET

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NOTE: ACTIVE PANEL LOCKING HARWARE
1) THE DOOR IS DESIGNED TO ALLOW INSTALLATION OF A GENERIC LOCKSET (LATCH AND DEADBOLT) BY OTHERS, PROVIDED THE HARDWARE MEETS THE FOLLOWING SPECIFICATIONS: A 2-1/8 INCH DIAMETER CROSS BORE WITH A 2-3/8 INCH BACKSET, 5-1/2 INCHES ON CENTER BETWEEN LATCH AND DEADBOLT, AND A 1-INCH DIAMETER EDGE BORE FOR BOTH LATCH AND DEADBOLT, AND A MINIMUM 1-INCH DEADBOLT THROW.
2) FACE-MOUNTED FLUSH BOLTS REQUIRED TOP AND BOTTOM ON ACTIVE PANELS FOR DOUBLE DOORS OVER 80" IN HEIGHT WITH SINGLE POINT LOCK.



PARTIAL TOP END SECTION SHOWN, BOTTOM END SIMILAR (SEE NOTE 2).

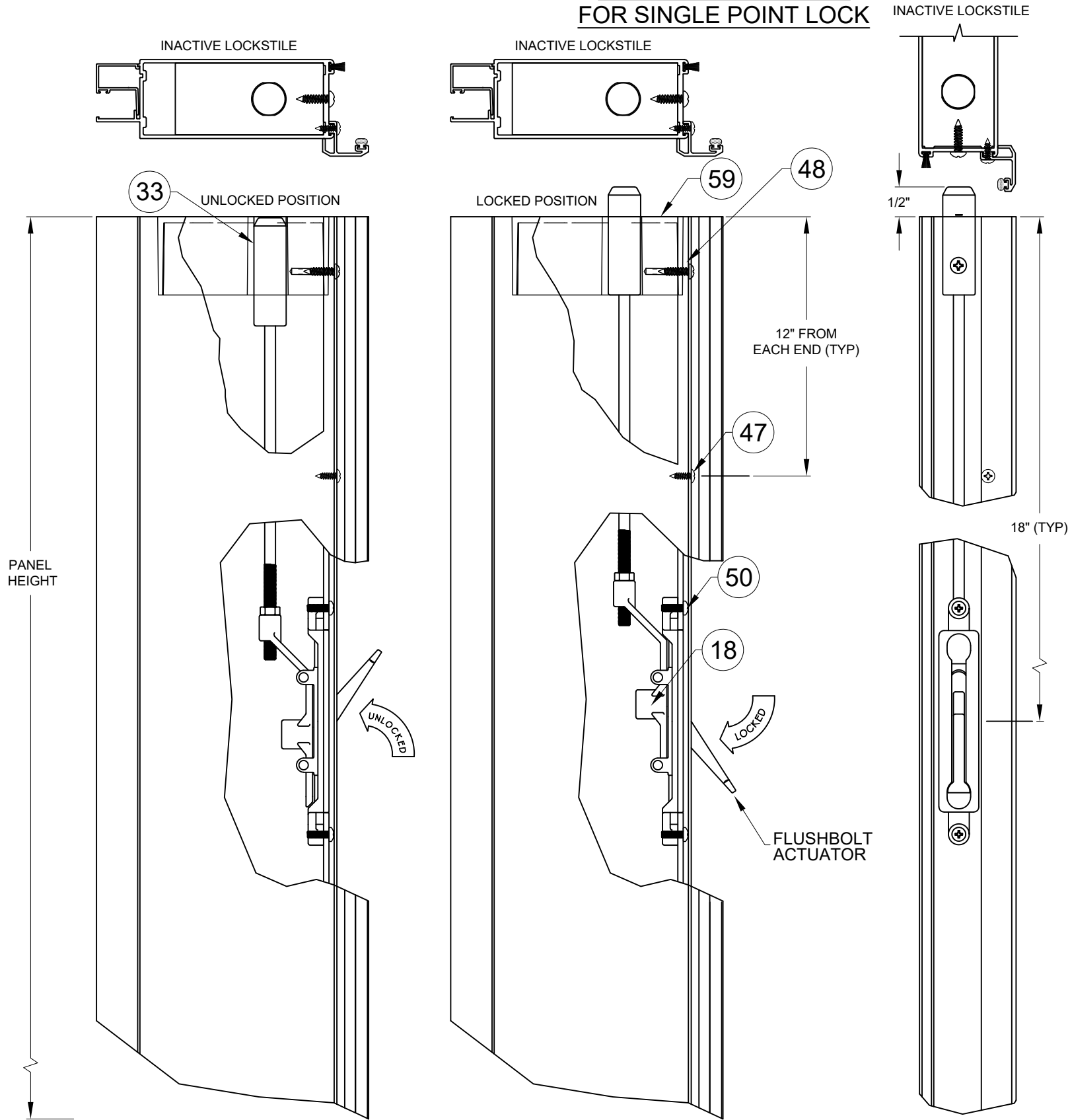
**ACTIVE PANEL STILE
LOCKING HARDWARE**

PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 COPYRIGHT © 2026 PGT INDUSTRIES, LLC LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.	
	ALUMINUM OUTSWING DOOR (LM)	08/12/25
	LOCK DETAILS (SINGLE POINT)	JENS ROSOWSKI
	FD160	13 OF 16

Series	Desc.	Title
FD160	13 OF 16	LOCK DETAILS (SINGLE POINT)
160FPA-LM		ALUMINUM OUTSWING DOOR (LM)

ANTHONY LYNN MILLER
LICENSE
No. 58705
6/16/26
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
A. LYNN MILLER, P.E.
P.E.# 58705

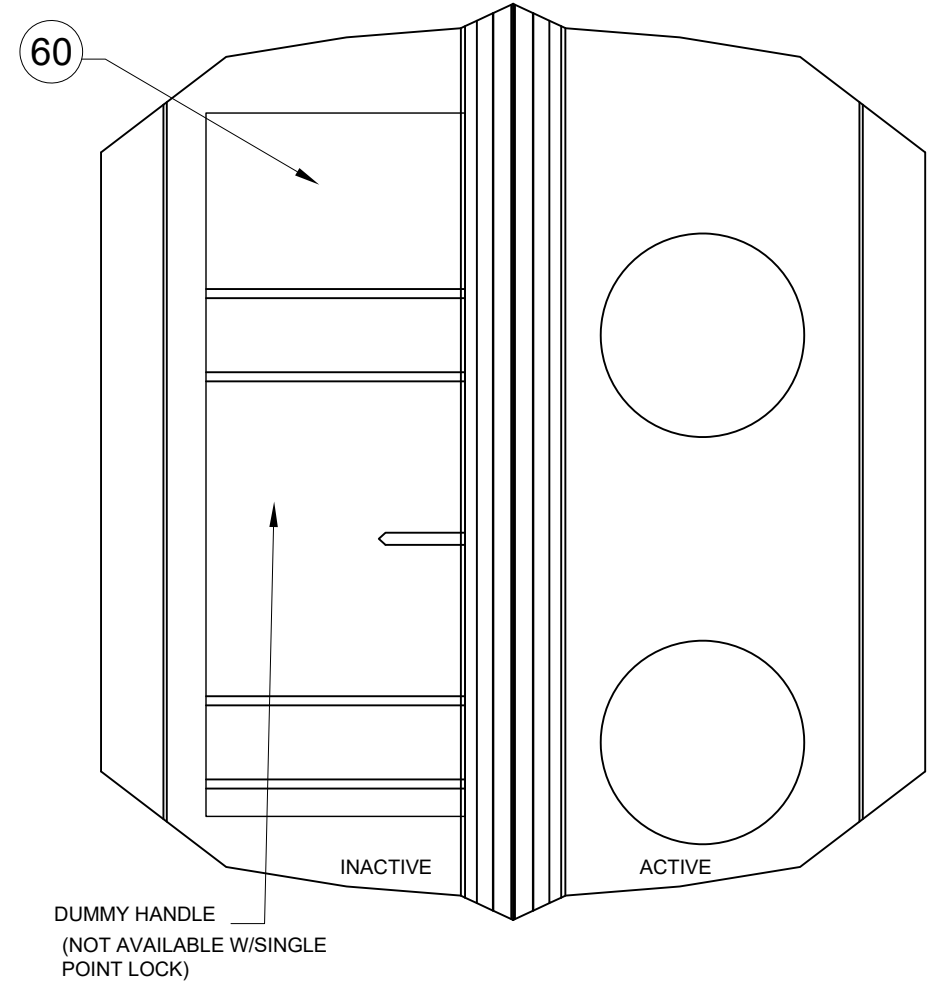
INACTIVE HARDWARE
FOR SINGLE POINT LOCK



PARTIAL TOP END SECTION SHOWN, BOTTOM END SIMILAR

TABLE 8, INACTIVE PANEL LOCKING HARDWARE:

ITEM	PART No.	DESCRIPTION		MATERIAL
18	-	FLUSHBOLT ASSEMBLY		ALLOY, STEEL
20	710117	DUMMY LEVER	LOCK SET OPTION 1	T. BRONZE
23	710119	DUMMY LEVER	LOCK SET OPTION 2	S. STAINLESS
26	710121	DUMMY LEVER	LOCK SET OPTION 3	P. BRONZE
28	-	LATCH LOCK STRIKE PLATE & 1/8" x 3/4" PHP. FH. SMS.		S.STEEL
33	-	FLUSH BOLT ASSEMBLY		S.STEEL
33A	-	FLUSH BOLT GUIDE (TOP & BOTTOM)		CAST (ZINC)
33B	-	FLUSH BOLT SINGLE POINT		S.STEEL
40	-	SHOOT BOLT PROTECTOR @ DOOR FRAME HEAD & SILL		PVC
48	7S134X	#10 x 3/4" PHP. PH. SMS. (BOLT LOCK/ FLUSHBOLT GUIDE ASSY.)		S. STEEL
50	78X12PPSMSX	#8-32 x 1/2" PHP. PH. HS. (FLUSHBOLT LEVER ASSEMBLY)		S. STEEL
59	-	FLUSH BOLT GUIDE (TOP AND BOTTOM)		NYLON
60	-	ANTI-BUCKLE SUPPORT		NYLON



PARTIAL MID SECTION SHOWN

INACTIVE PANEL STILE
LOCKING HARDWARE

PGT[®] WINDOWS and DOORS

3400 PRECISION DRIVE
N. VENICE, FL 34275
(941) 480-1600

REGISTRATION #29296

PREPARED BY A. LYNN MILLER
3400 PRECISION DRIVE
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ALUMINUM OUTSWING DOOR (LM)

LOCK DETAILS (SINGLE POINT)

FD160

14 OF 16

No.

160FPA-LM

By

JENS ROSOWSKI

Date

08/12/25

ANTHONY LYNN MILLER

LICENSE

No. 58705

6/16/26

STATE OF FLORIDA

PROFESSIONAL ENGINEER

A. LYNN MILLER, P.E.

P.E.# 58705

Rev.#

6/16/26

Date

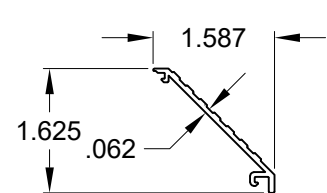
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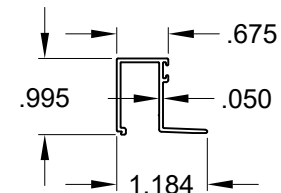
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TABLE 9:

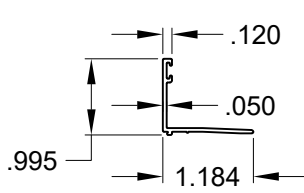
ITEM	PART No.	DESCRIPTION	MATERIAL
1	6189	DOOR FRAME HEAD & SILL	ALUM. 6063-T6
2	6190	DOOR FRAME JAMB	ALUM. 6063-T6
3	6196	SIDELITE HEAD & SILL	ALUM. 6063-T6
4	6197	SIDELITE FRAME JAMB	ALUM. 6063-T6
5	6198	MATING SIDELITE FRAME JAMB	ALUM. 6063-T6
6	6193	PANEL TOP & BOTTOM RAIL	ALUM. 6063-T6
7	6194	PANEL VERTICAL STILE	ALUM. 6063-T6
8	6199	SHEAR BLOCK	ALUM. 6063-T6
9	6191	FRAME SCREW COVER	ALUM. 6063-T5
10	6192	SILL SLANTED SCREW COVER	ALUM. 6063-T5
11	6121	GLAZING BEAD (7/16" LAM.)	ALUM. 6063-T5
12	6123	GLAZING BEAD (1" INSUL. & LAM.)	ALUM. 6063-T5
13	6200	SHEAR PLATE	ALUM. 6063-T6
14	6195	ASTRAGAL ADAPTER	ALUM. 6063-T5
15	6508	SIDELITE JAMB COVER	ALUM. 6063-T5
16	6540	SADDLE THRESHOLD, ADA COMPLIANT	ALUM. 6063-T6
34	7108G	4-1/12" x 4" HINGE	ALUMINUM
35	7108B	4-1/12" x 4" HINGE	BRASS
36	7108X	4-1/12" x 4" HINGE	S. STEEL
37	71128	3/8"-16 FULLY THREADED ROD (ZINC PLATED)	STEEL
38	6382K	GLAZING BULB (DUROMETER 75-80)	PVC
39	63032	0.187" x 0.320" ULTRA SOFT FIN WEATHERSTRIP	-
41	710042	0.350" REACH POCKET SEAL (FRAME PERIMETER GASKET)	-
41B		POCKET SEAL SILL AND HEAD FOR SINGLE POINT LOCK CONFIG	-
42	632011	FOAM-TITE CLOSED CELL FOAM COMPRESSION SEAL	-
43	71122L/R	2" X 2" x 1/4" CLIP ANGLE (ADA THRESHOLD TO JAMB)	ALUMINUM
44	710X125PPTX	#10 x 1-1/4" PHP. PH. SMS. (PANEL & FRAME ASSEMBLY)	S. STEEL
45	714X34HHX	#14 x 3/4" HH. TEK (MULLION ATTACHMENT)	S. STEEL
46	712X12FPX	#12-24 x 1/2" PHP. FH. UC. THREAD FDRMING	S. STEEL
47	76X12TPATX	#6 x 1/2" PHP. TH. SMS. (ASTRAGAL ATTACHMENT)	S. STEEL
49	710221X	3/8"-16 SERRATED FLANGE NUT (ZINC PLATED)	S. STEEL
51	WS-1226-3600	DOOR SWEEP (OPT.) SECURED W/ #6 x 1/2" PHP. PH. SMS.	ALUMINUM
52	710003	INSTALLATION SCREW HOLE PLUG @ DOOR FRAME JAMB	NYLON
53	712X58TAX	#12 x 5/8" HH. SMS. (SHEAR BLOCK ASSY.)	S. STEEL
54	VARIES	DOW-791, 899, 983, 995, GE-1200 OR RGS-7700 BACKBEDDING	SILICONE
55	VARIES	XL EDGE (SS), DURASEAL, SUPERSPACER OR KODISPACE SPACER SYSTEM	VARIES
56	710151	7/16" SETTING BLOCK, DURO = 80 +/-5	EPDM
57	710152	1" SETTING BLOCK, DURO = 80 +/-5	EPDM
61		0.5" X 0.5" CLOSED CELL FOAM SEAL	EPDM
62	67070	GLAZING BULB187X350 275 DIA BULB	EPDM



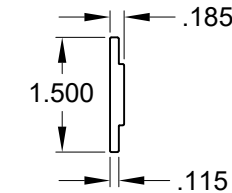
10 SILL SLANTED COVER



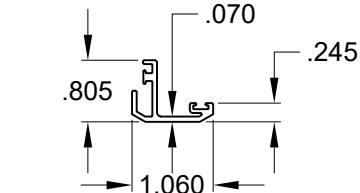
11 7/16" GLASS STOP



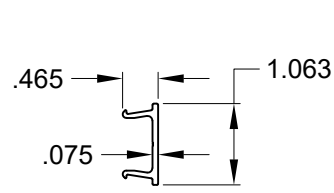
12 1" GLASS STOP



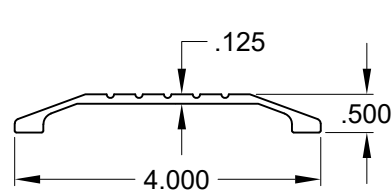
13 SHEAR PLATE



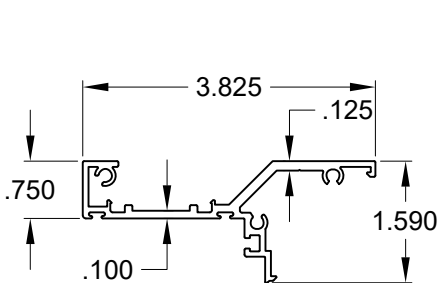
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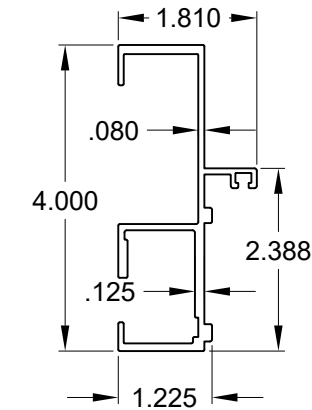
15 SIDELITE JAMB COVER



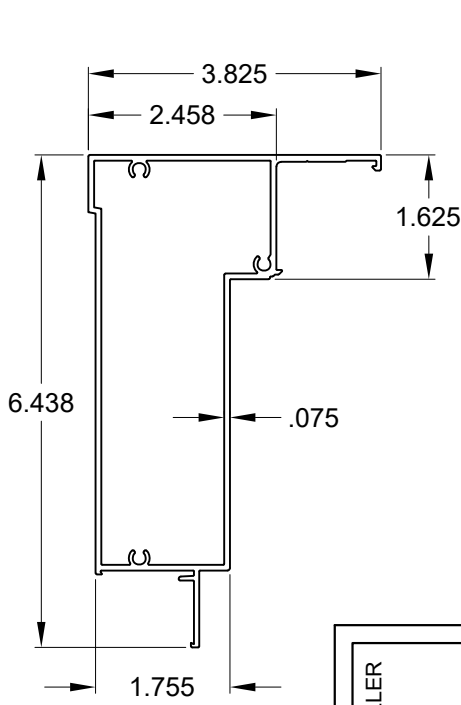
16 SADDLE THRESHOLD



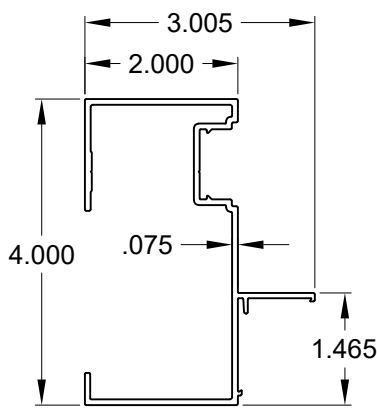
1 DOOR FRAME HEAD/SILL



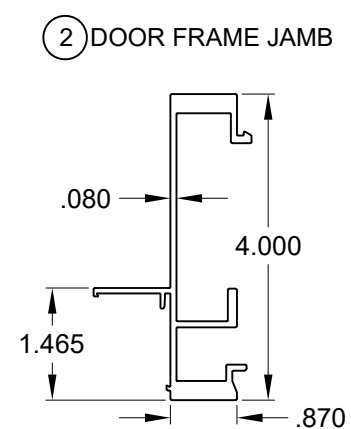
2 DOOR FRAME JAMB



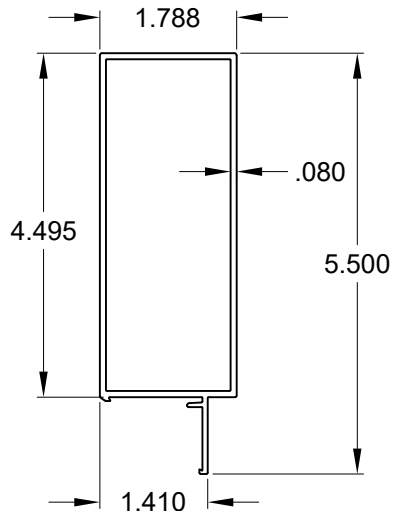
3 SIDELITE HEAD & SILL



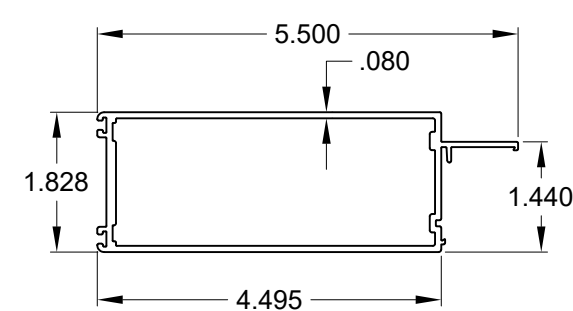
4 SIDELITE FRAME JAMB



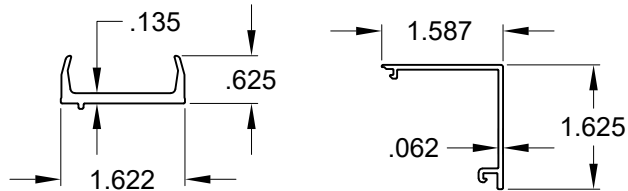
5 SIDELITE MATING JAMB



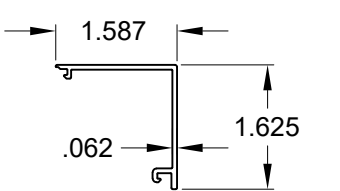
6 TOP & BOTTOM RAIL



7 VERTICAL STILE

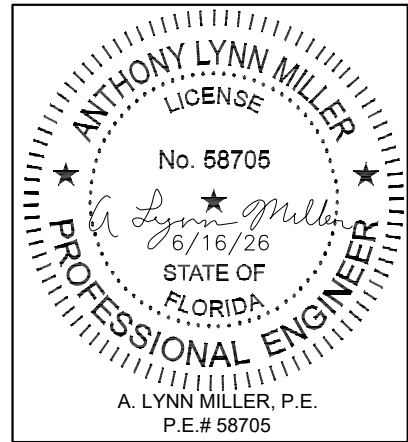


8 SHEAR BLOCK

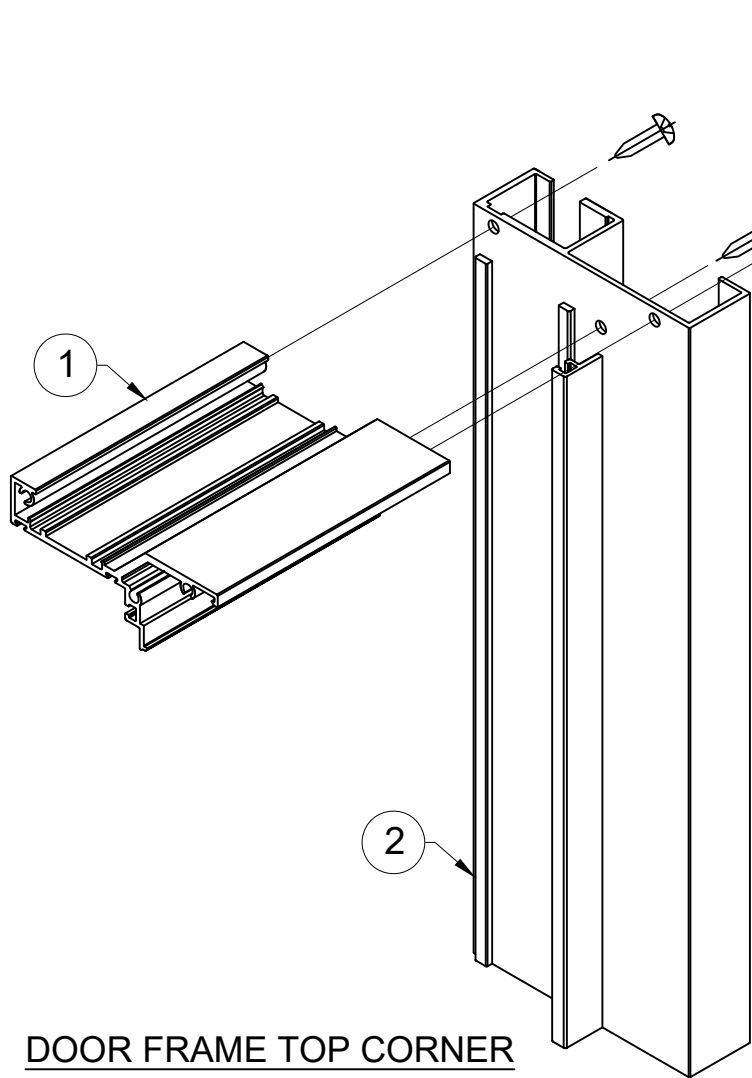


9 FRAME SCREW COVER

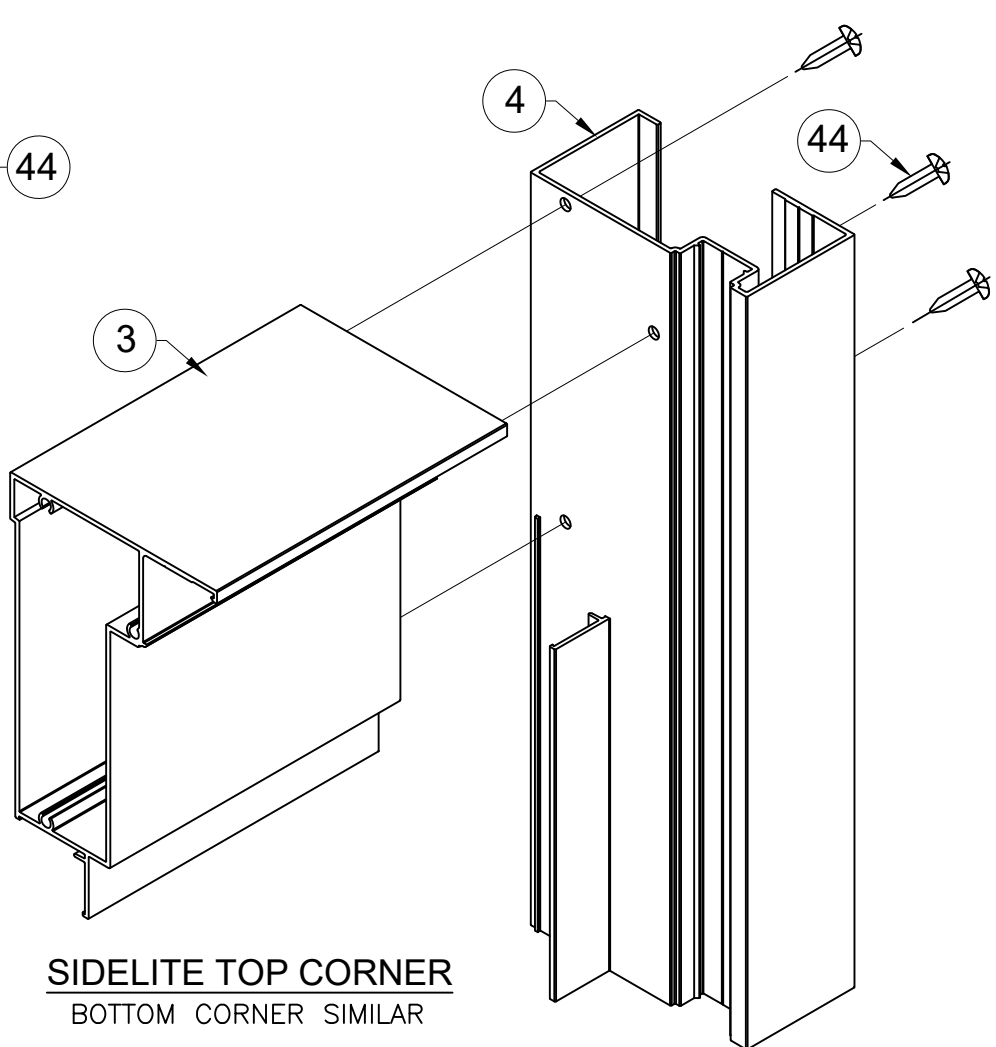
PGT[®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 REGISTRATION #29296	PREPARED BY A. LYNN MILLER 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600 COPYRIGHT © 2026 PGT INDUSTRIES, LLC LIMITED LICENSE TO MAKE COPIES FOR PERMITTING.		JENS ROSOWSKI	
	ALUMINUM OUTSWING DOOR (LM)		160FPA-LM	
	BILL OF MATERIAL		15 OF 16	
	FD160		15 OF 16	



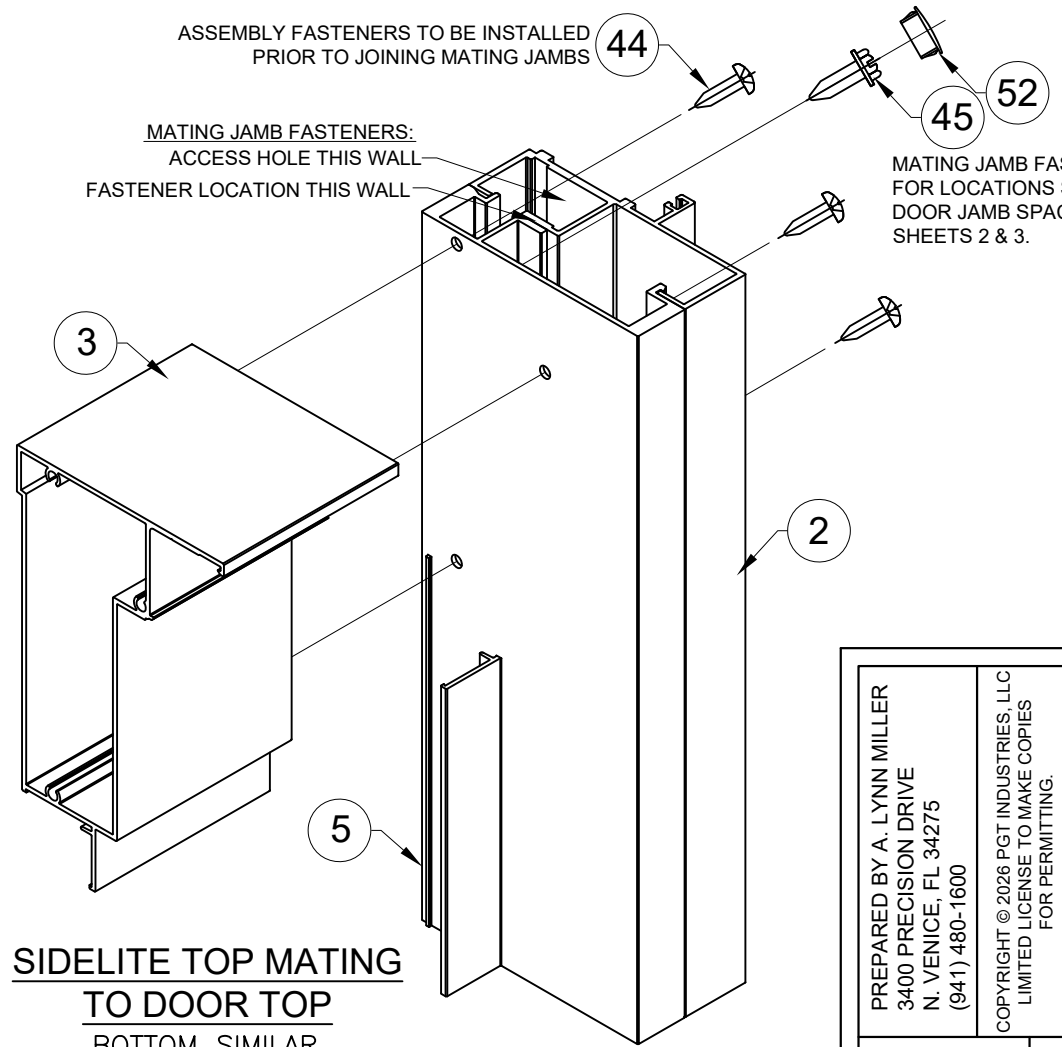
Rev. #	6/16/26	Date	NO CHANGES THIS SHEET
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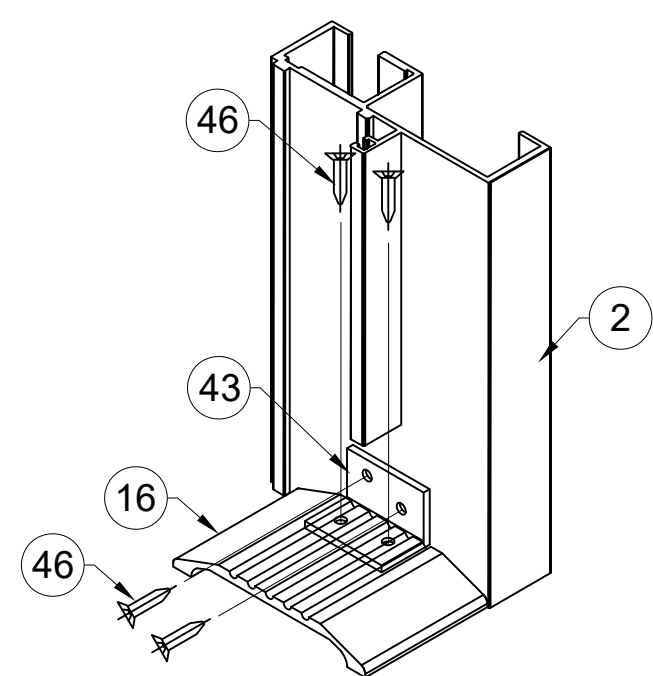
DOOR FRAME TOP CORNER



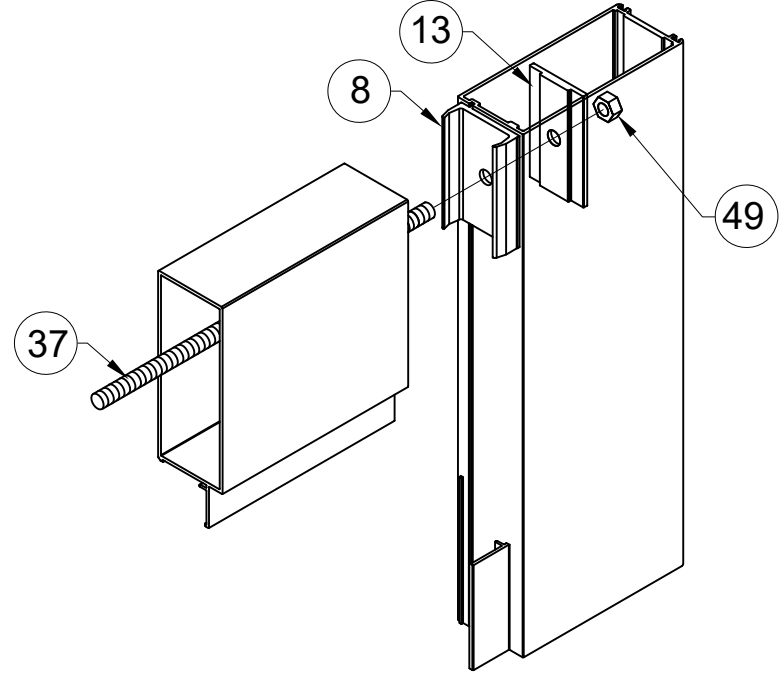
SIDELITE TOP CORNER
BOTTOM CORNER SIMILAR



SIDELITE TOP MATING
TO DOOR TOP
BOTTOM SIMILAR

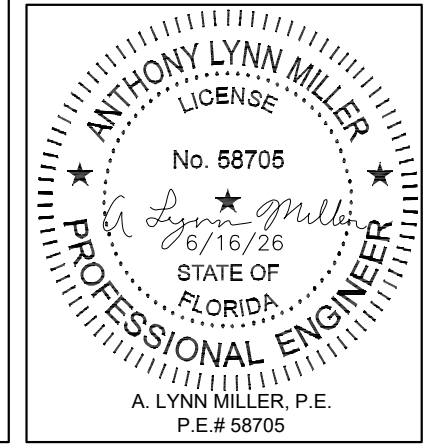


DOOR FRAME BOTTOM CORNER
SADDLE (ADA) CORNER SHOWN



PANEL TOP CORNER
BOTTOM CORNER SIMILAR

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PGT [®] WINDOWS and DOORS 3400 PRECISION DRIVE N. VENICE, FL 34275 (941) 480-1600		REGISTRATION #29296		ALUMINUM OUTSWING DOOR (LM)		CORNER ASSEMBLY		FD160	
No. 58705		16 OF 16		Sheet		Dwg		No.	
A. LYNN MILLER, P.E.		P.E.# 58705		DATE		BY		TITLE	



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