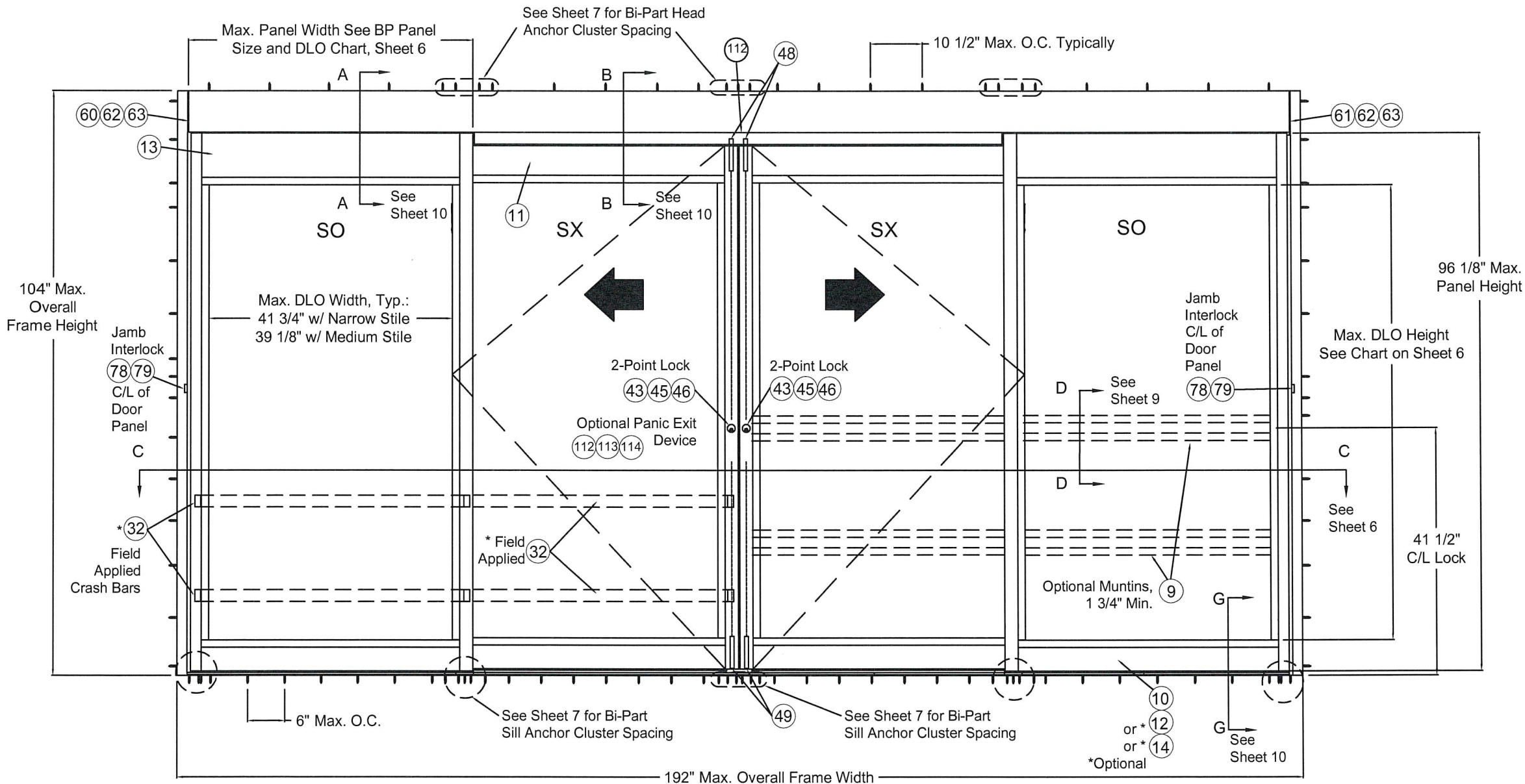
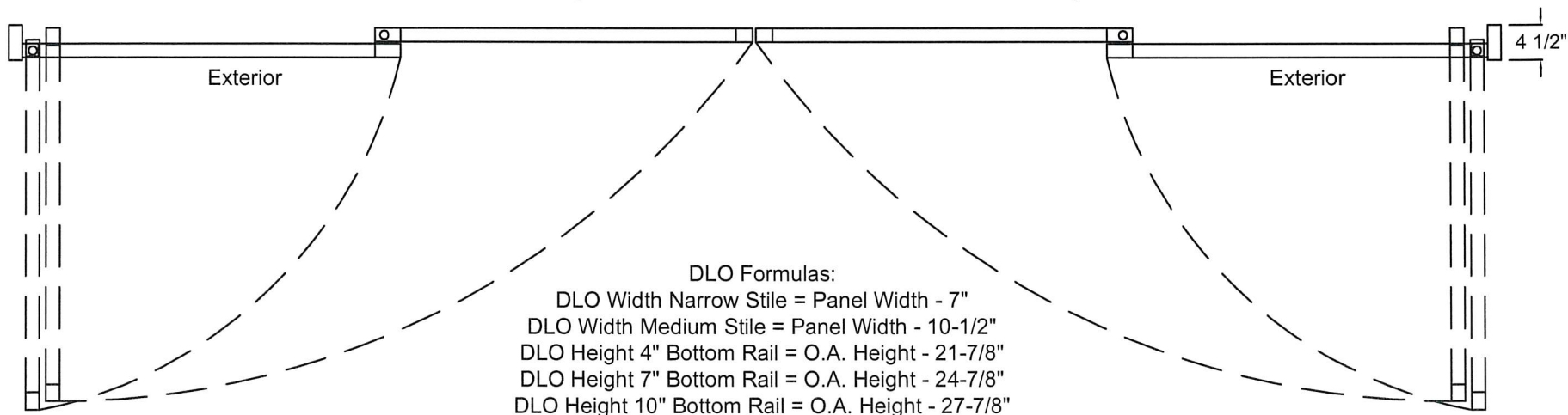


ENTRE//MATIC	ENTREMATIC USA 1900 AIRPORT ROAD MONROE, NC 28110 PH: (866) 901-4284 www.ditecentrematic.us	ENTREMATIC DITEC DS20H SLIDING DOOR SYSTEM BI-PARTING AND SINGLE SLIDING	Revisions			
			Rev	Description	Date	Approved
			-	Initial Release	6/16/20	SJF
			1	Frame Size Revs	6/10/22	SJF
GENERAL NOTES: 1. THIS PRODUCT HAS BEEN TESTED PER TAS 201, 202, & 203. IT MEETS ALL OF THE REQUIREMENTS OF THE CURRENT EDITION OF THE FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS. 2. DOORS WITH GLASS TYPE 1 ARE LARGE AND SMALL MISSILE IMPACT RESISTANT, SHUTTERS ARE NOT REQUIRED IN WINDBORNE DEBRIS REGIONS. DOORS WITH GLASS TYPE 2 ARE NOT IMPACT RESISTANT, AN IMPACT RESISTANT SHUTTER SYSTEM IS REQUIRED IN WINDBORNE DEBRIS REGIONS. 3. MAX. DESIGN PRESSURES ARE LISTED ON SHEET 4. 4. THIS DOOR SYSTEM IS NOT TESTED OR RATED FOR WATER INFILTRATION RESISTANCE. IT IS INTENDED FOR USE ONLY IN LOCATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED OR WHERE IT IS PROTECTED BY AN OVERHANG MEETING THE REQUIREMENTS OF FBC SECTION 1709.5.1. 5. OPENING SUBSTRATES, WOOD BUCKS (OPTIONAL), AND WOOD BUCK FASTENERS ARE BY OTHERS AND MUST BE DESIGNED AND INSTALLED PER FBC REQUIREMENTS TO SAFELY TRANSFER THE LOADS FROM THIS SYSTEM TO THE BUILDING STRUCTURE. SUBSTRATES SHALL MEET THE MINIMUM STRENGTH REQUIREMENTS LISTED IN THE ANCHOR CHART ON SHEET 13. 6. ANCHOR TYPE, SIZE, SPACING, AND EMBEDMENT SHALL BE AS LISTED IN THE ANCHOR CHART ON SHEET 13, AND AS DETAILED IN THESE DRAWINGS. ANCHOR EMBEDMENT IN SUBSTRATE SHALL BE BEYOND WALL DRESSING OR STUCCO. 7. ALL FASTENERS PENETRATING INTO PRESSURE TREATED WOOD SHALL BE CAPABLE OF PREVENTING CORROSION DUE TO REACTION WITH PRESSURE TREATMENT CHEMICALS. 8. THE 4/3 INCREASE IN ALLOWABLE STRESS FOR SHORT-TERM LOADING HAS NOT BEEN USED IN THE DESIGN OF THIS SYSTEM. THE 1.6 Cd FACTOR HAS BEEN USED IN THE ANALYSIS OF WOOD SCREWS ONLY. 9. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE PROTECTED TO PREVENT GALVANIC REACTIONS IN ACCORDANCE WITH FBC CHAPTERS 20 AND 23. SYSTEM NOTES: 1. ALL ALUMINUM PARTS SHALL BE 6063-T5 ALUMINUM ALLOY AND TEMPER, UNLESS OTHERWISE NOTED. 2. FOR GLAZING DETAILS, SEE SHEET 5. 3. THE GLAZING MATERIALS IN BOTH FIXED AND SLIDING PANELS OF ALL SLIDING DOORS MUST COMPLY WITH THE REQUIREMENTS IN THE PERFORMANCE SPECIFICATIONS AND METHODS OF TEST FOR SAFETY GLAZING MATERIALS USED IN BUILDINGS, PER FBC REQUIREMENTS. 4. THIS SYSTEM HAS NOT BEEN TESTED PER ANSI Z97.1. CORNER CONSTRUCTION: 5. FRAME CORNERS ARE SQUARE CUT AND MECHANICALLY FASTENED AT THE HEAD WITH M6x30 SCREWS USING A BEAM END PLATE (SEE SHEET 12), 6. PANEL CORNERS ARE SQUARE CUT AND MECHANICALLY FASTENED AT EACH CORNER USING ANTI-TWIST BRACKETS, THEN REINFORCED WITH (2) FULL WIDTH 3/8" THREADED TIE IN THE TOP AND BOTTOM RAILS.			Sheet	Description		
			1	General Notes, Corner Construction		
			2	Bi-Part Elevation, Jamb Anchoring Locations		
			3	Single Slide Elevation, Jamb Anchoring Locations		
			4	Design Pressure Charts		
			5	Glazing Details		
			6	Bi-Part Section Views		
			7	Bi-Part Head and Sill Anchoring Locations		
			8	Single Slide Section Views		
			9	Single Slide Head and Sill Anchoring Locations		
			10	Door Connections and Head Section Views		
			11	Locking Details, Muntin Details		
			12	Frame Connection Details		
			13	Threshold Anchoring Details, Installation Anchor Table		
			14	Head and Jamb Anchoring Details		
			15	Profiles		
			16	Bill of Materials, Sheet 1 of 2		
			17	Bill of Materials, Sheet 2 of 2		
			18	Panic Exit Device Interior Profile		
			19	Panic Exit Device Exterior Profile		
			20	Panic Exit Device Installation Details, Sheet 1 of 2		
21	Panic Exit Device Installation Details, Sheet 2 of 2					
SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX:(561) 225-1982 SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 PH/FAX:(561) 225-1982 STATE OF FLORIDA JUN 10 2022 PROFESSIONAL ENGINEER						
			DWG NO. EM-DS20H-D-FBO-HVHZ			
			DRAWN BY SJF	DATE 6/16/2020		
			SHEET DESCRIPTION General Notes, Corner Construction			
			SHEET NO. 1 OF 21			
ENTRE//MATIC						

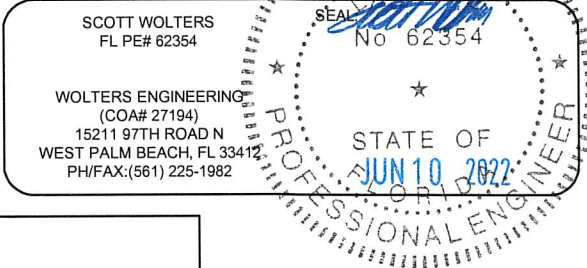
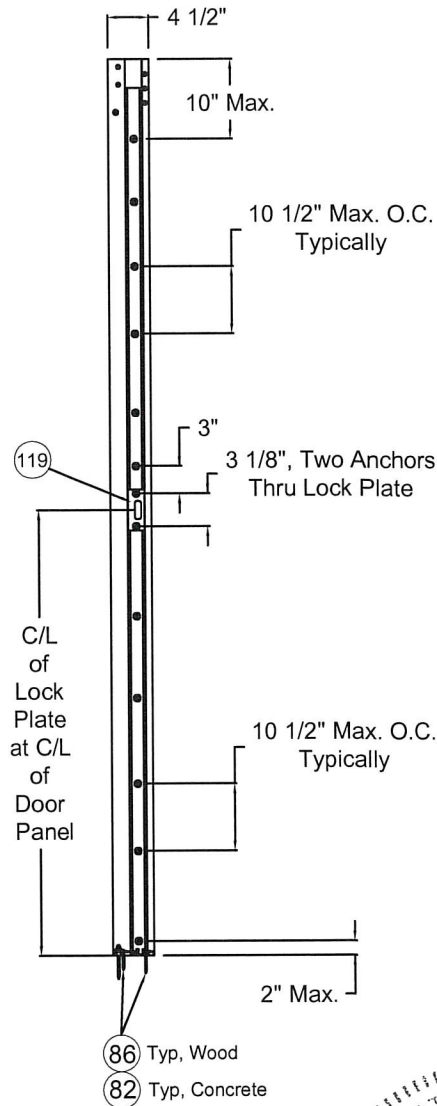
Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF
1	Frame Size Revs	6/10/22	SJF



BP FBO (4 Panels Bi-Part Full Breakout)

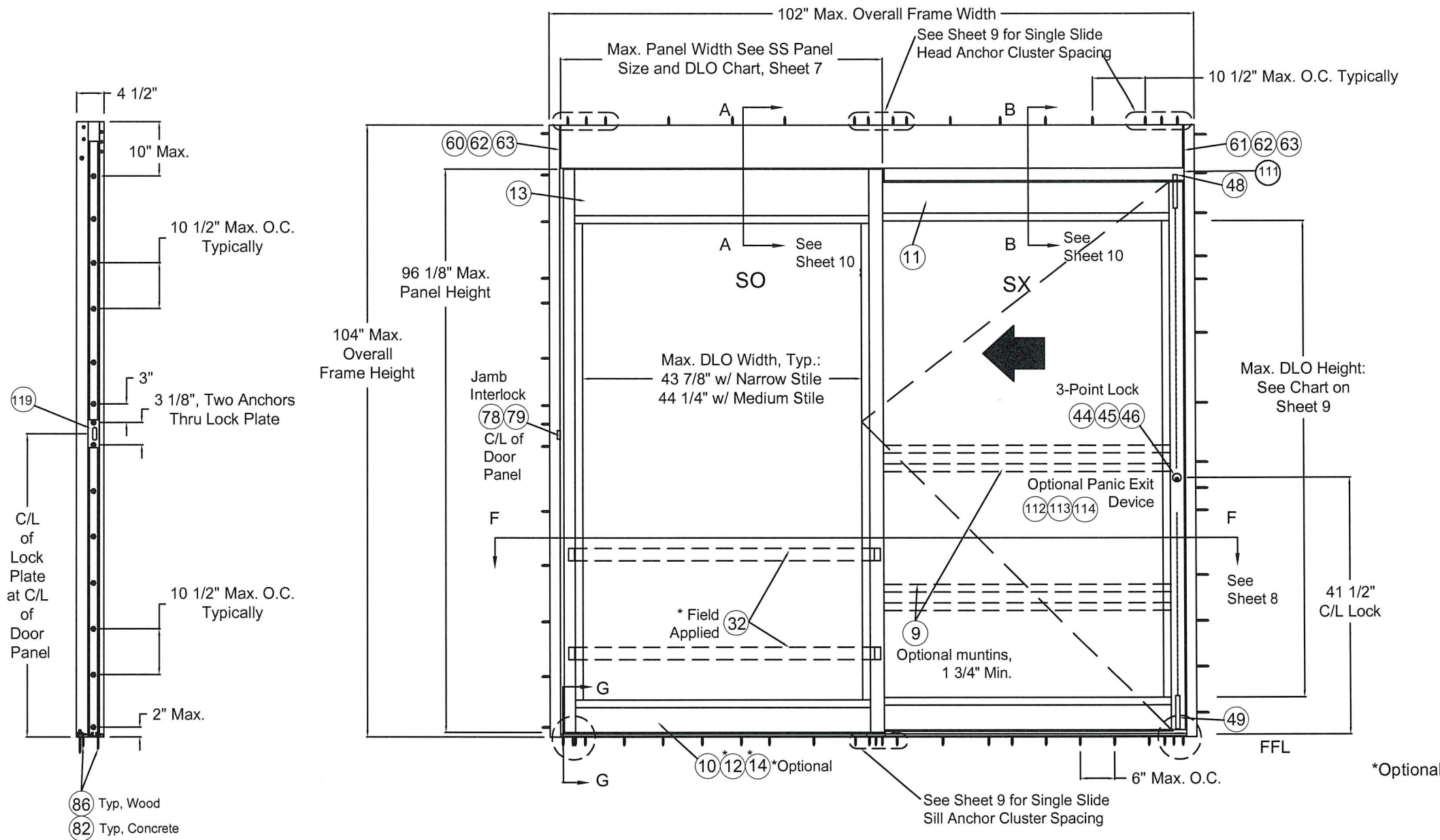


SIDELITE JAMB
(TYP. BOTH JAMBS)

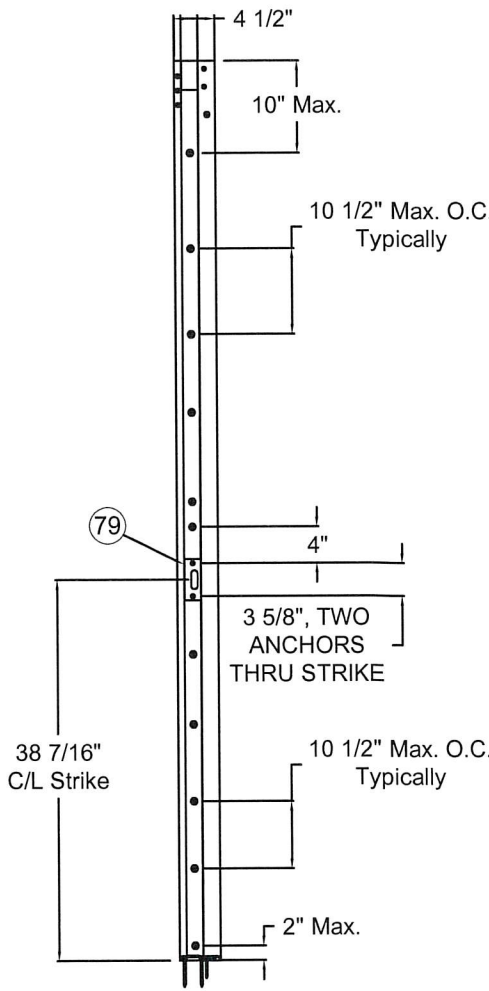


DWG NO.	EM-DS20H-D-FBO-HVHZ
DRAWN BY	SJF
DATE	6/16/2020
SHEET DESCRIPTION	Bi-Part Elevation, Jamb Anchoring Locations
SHEET NO.	2 OF 21

Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF
1	Frame Size Revs	6/10/22	SJF

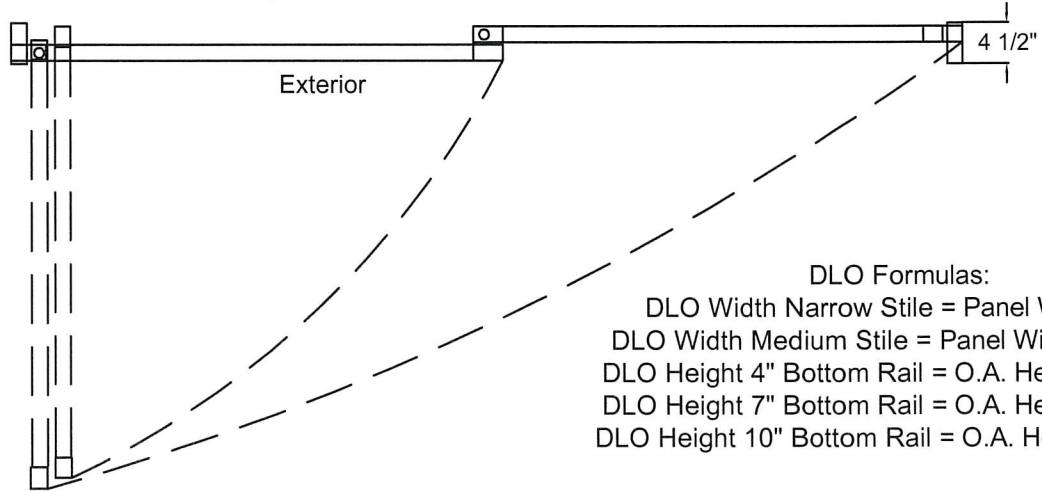


SIDELITE JAMB



ACTIVE JAMB

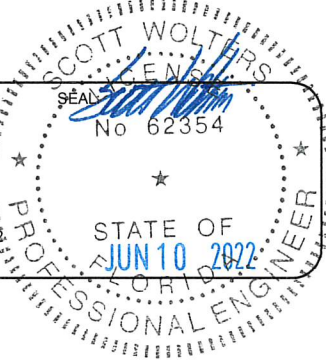
LH FBO (2 Panels Left-Hand Full Breakout)



DLO Formulas:
DLO Width Narrow Stile = Panel Width - 7"
DLO Width Medium Stile = Panel Width - 10 1/2"
DLO Height 4" Bottom Rail = O.A. Height - 21 7/8"
DLO Height 7" Bottom Rail = O.A. Height - 24 7/8"
DLO Height 10" Bottom Rail = O.A. Height - 27 7/8"

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982



DWG NO.	EM-DS20H-D-FBO-HVHZ
DRAWN BY	SJF
DATE	6/16/2020
SHEET DESCRIPTION	Single Slide Elevation, Jamb Anchoring Locations
SHEET NO.	3 OF 21



ENTREMATIC
DITEC DS20H SLIDING DOOR SYSTEM
BI-PARTING AND SINGLE SLIDING

Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF
1	Frame Size Revs	6/10/22	SJF

SINGLE SLIDE - MAXIMUM DESIGN PRESSURE				
GLASS TYPE	IMPACT RACTING	LOCKING HARDWARE	MAX. FRAME SIZE (in.)	MAX. DESIGN PRESSURE (psf)
GLASS TYPE 1	LMI - MISSILE D	3 PT. LOCK ADAMS-RITE 8600	102" X 104"	+/- 75
GLASS TYPE 2	NON-IMPACT**	3 PT. LOCK ADAMS-RITE 8600	102" X 104"	+/- 75

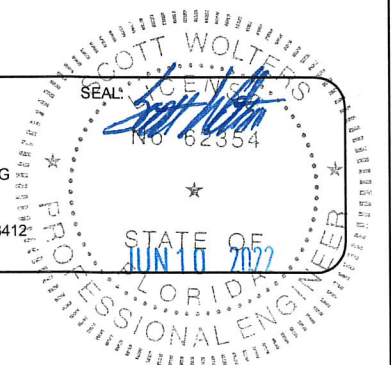
** SHUTTERS ARE REQUIRED FOR WINDBORNE DEBRIS REGIONS

BI-PARTING - MAXIMUM DESIGN PRESSURE				
GLASS TYPE	IMPACT RACTING	LOCKING HARDWARE	MAX. FRAME SIZE (in.)	MAX. DESIGN PRESSURE (psf)
GLASS TYPE 1	LMI - MISSILE D	4 PT. LOCK ADAMS-RITE 8600	192" X 104"	+/- 70
GLASS TYPE 2	NON-IMPACT**	4 PT. LOCK ADAMS-RITE 8600	192" X 104"	+/- 70

** SHUTTERS ARE REQUIRED FOR WINDBORNE DEBRIS REGIONS

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561) 225-1982



DWG NO.		EM-DS20H-D-FBO-HVHZ	
DRAWN BY		DATE	
SJF		6/16/2020	
SHEET DESCRIPTION			SHEET NO.
Design Pressure			4 OF 21

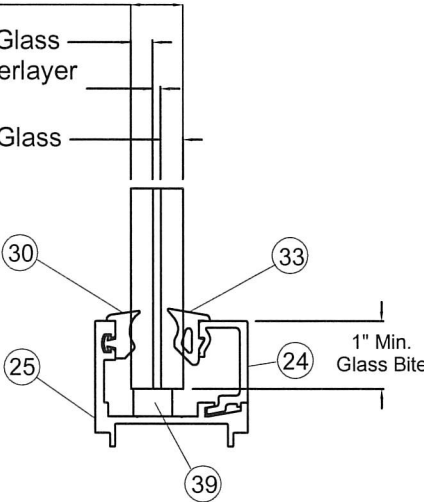
ENTRE//MATIC

Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF

Glass Type 1
9/16" LAMINATED GLASS

9/16" Laminated 'D' Impact Glass
(.590" actual)

1/4" Heat Strengthened Glass
.090" Sentryglas Interlayer
by Kuraray
1/4" Heat Strengthened Glass

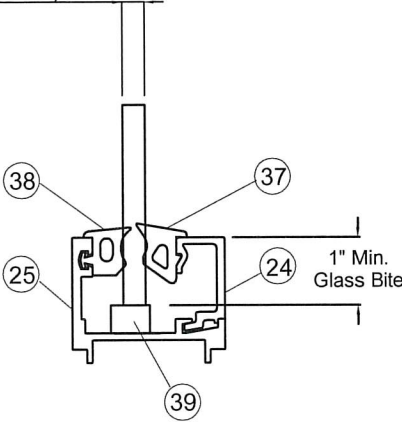


FBC 2411.3.3.1
Compliant Setting Blocks
80 Durometer Neoprene
2 per Glass Edge

LEVEL D LARGE
AND SMALL MISSILE IMPACT

Glass Type 2
1/4" TEMPERED GLASS

1/4" Fully Tempered
(.250" actual)



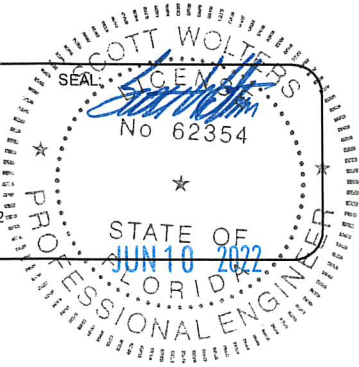
FBC 2411.3.3.1
Compliant Setting Blocks
80 Durometer Neoprene
2 per Glass Edge

NON-IMPACT

GLASS TYPE 2 IS NOT IMPACT
RESISTANT. AN IMPACT RESISTANT
SHUTTER SYSTEM IS REQUIRED FOR
USE IN WINDBORNE DEBRIS REGIONS.

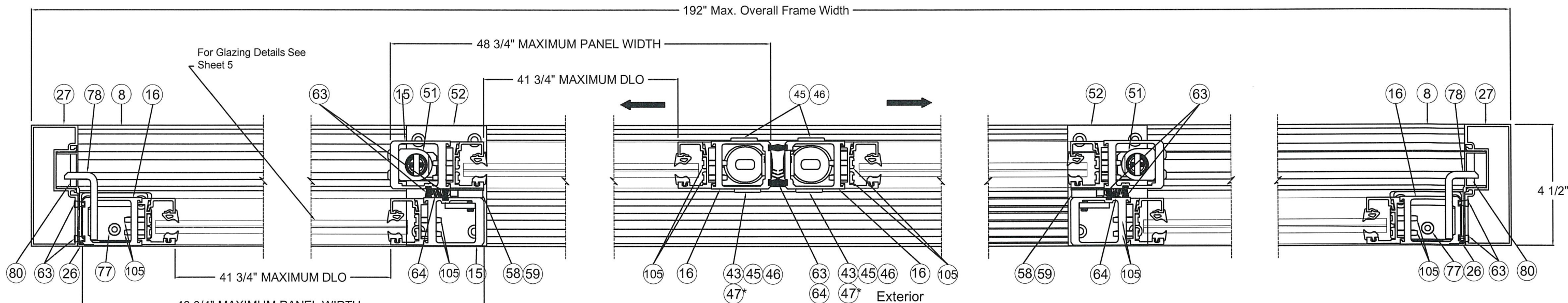
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561) 225-1982

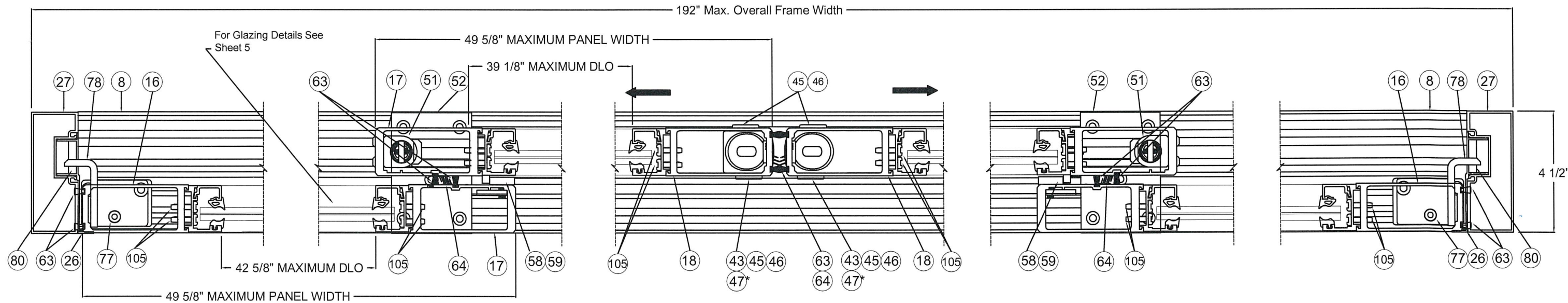


DWG NO.	EM-DS20H-D-FBO-HVHZ		
DRAWN BY	SJF	DATE	6/16/2020
SHEET DESCRIPTION	Glazing Details		SHEET NO. 5 OF 21

Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF
1	Frame Size Revs	6/10/22	SJF

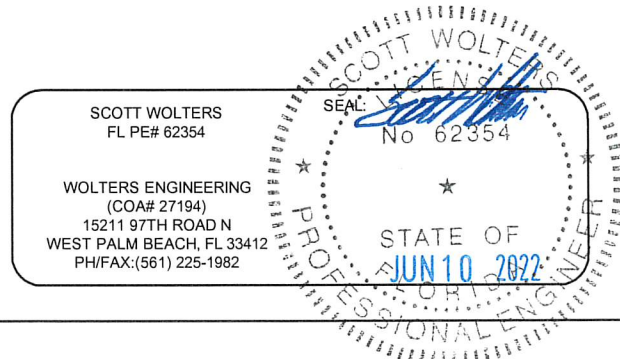


Section C-C, Narrow Stile
BI-PARTING FULL BREAKOUT SHOWN



Section C-C, Medium Stile
BI-PARTING FULL BREAKOUT SHOWN

BP Panel Size and Daylight Opening Chart		
Door Stile	Maximum Panel Width	Maximum DLO Width
Narrow	48 3/4"	41 3/4"
Medium	49 5/8"	42 5/8"
Bottom Rail	Maximum Panel Height	Maximum DLO Height
4"	96 1/8"	82 1/8"
7"	96 1/8"	79 1/8"
10"	96 1/8"	76 1/8"

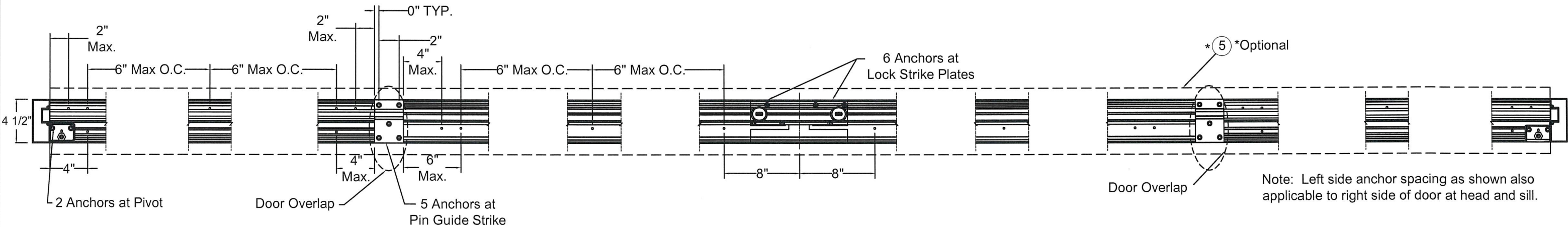
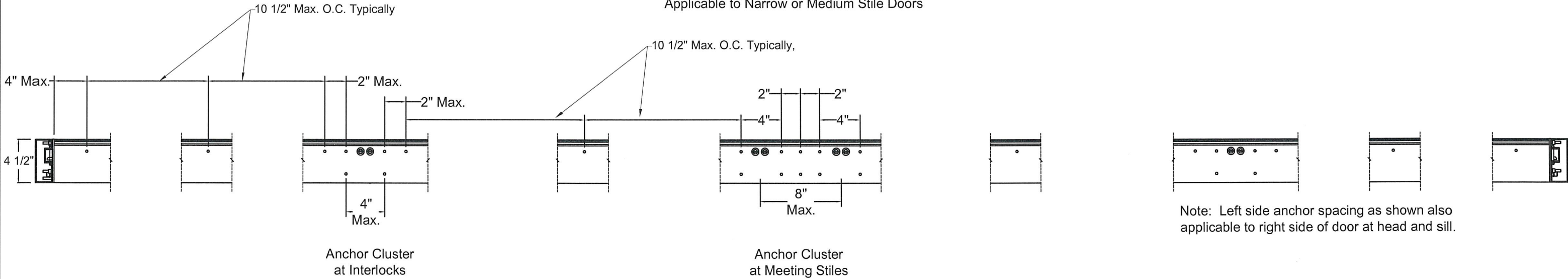


DWG NO.	EM-DS20H-D-FBO-HVHZ	
DRAWN BY	SJF	DATE 6/16/2020
SHEET DESCRIPTION	Bi-Part Section Views	SHEET NO. 6 OF 21

Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF
1	Frame Size Revs	6/10/22	SJF

BI-PART HEAD ANCHOR LOCATIONS

Applicable to Narrow or Medium Stile Doors



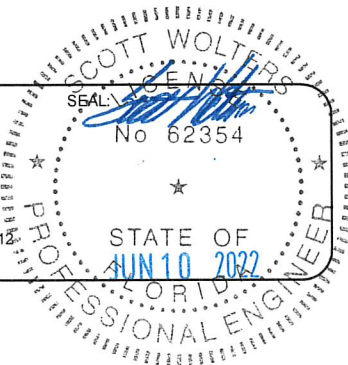
BI-PART SILL ANCHOR LOCATIONS

Applicable to Narrow or Medium Stile Doors

BP Panel Size and Daylight Opening Chart		
Door Stile	Maximum Panel Width	Maximum DLO Width
Narrow	48 3/4"	41 3/4"
Medium	49 5/8"	42 5/8"
Bottom Rail	Maximum Panel Height	Maximum DLO Height
4"	96 1/8"	82 1/8"
7"	96 1/8"	79 1/8"
10"	96 1/8"	76 1/8"

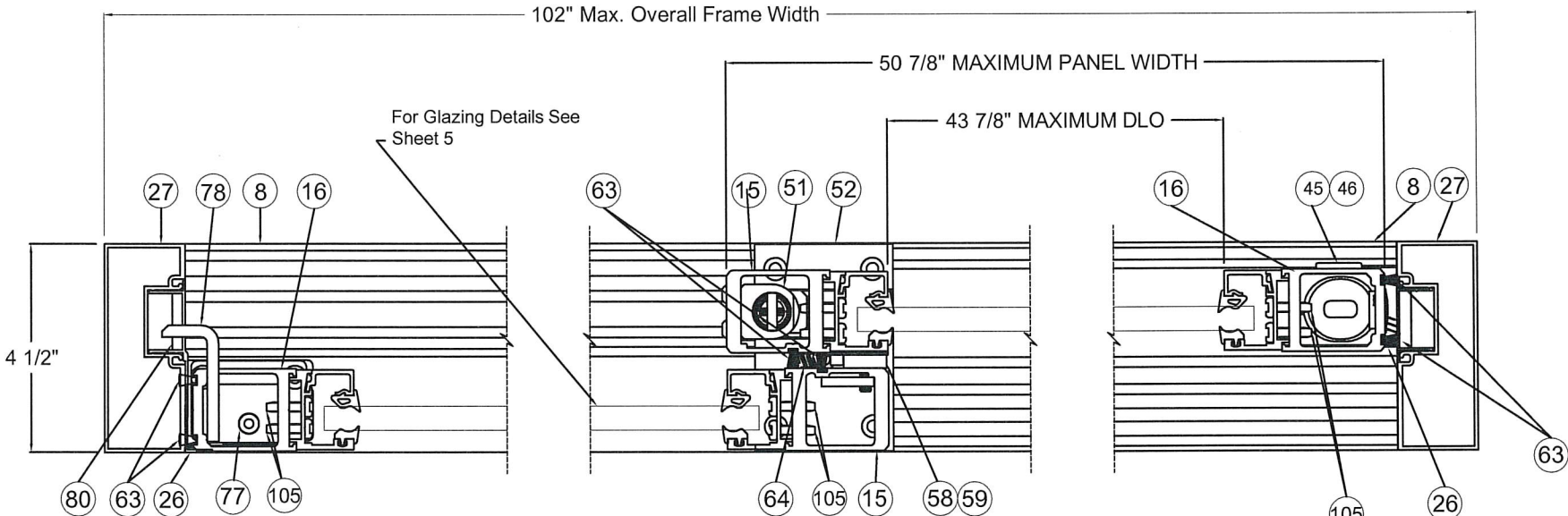
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

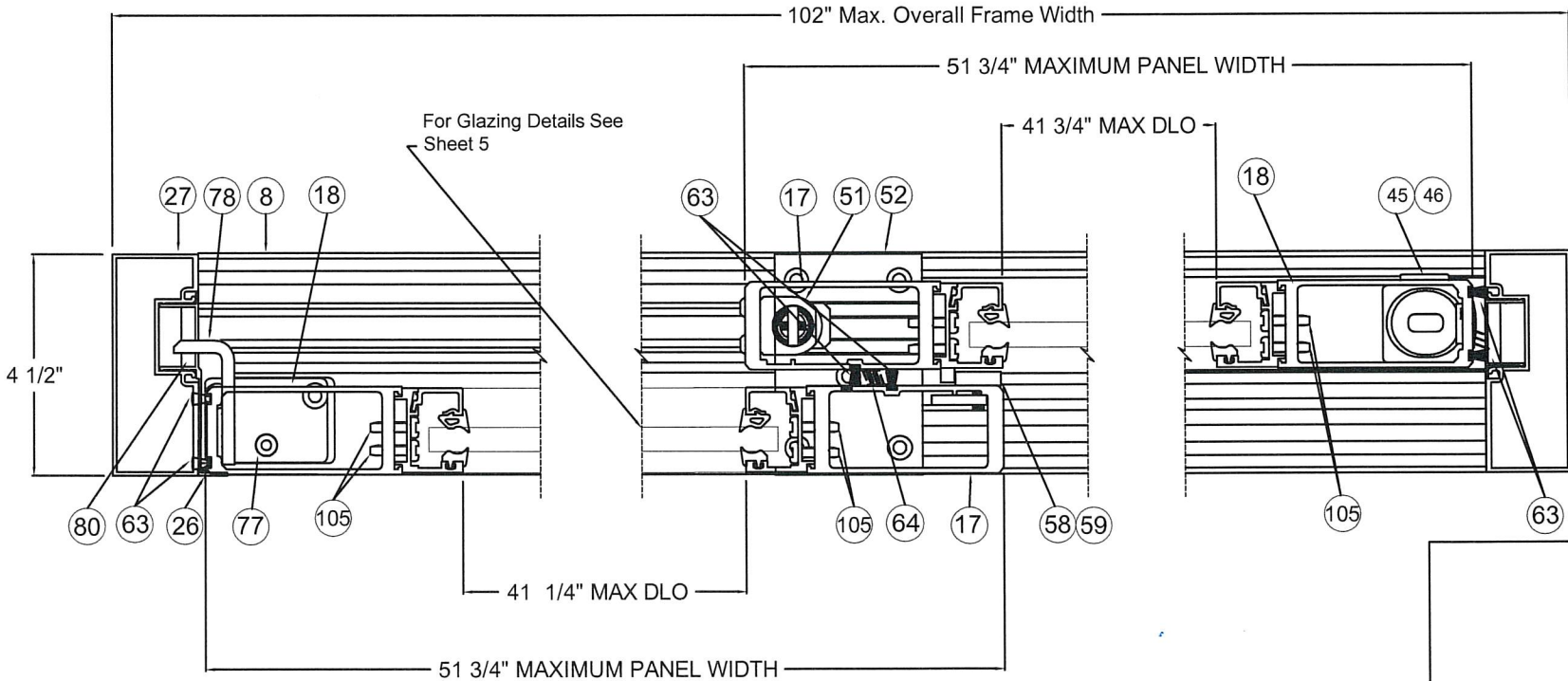


DWG NO.	EM-DS20H-D-FBO-HVHZ		
DRAWN BY	SJF	DATE	6/16/2020
SHEET DESCRIPTION		SHEET NO.	
Bi-Part Head and Sill Anchoring Locations		7 OF 21	

Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF
1	Frame Size Revs	6/10/22	SJF



Section F-F, Narrow Stile
SINGLE SLIDE FULL BREAKOUT SHOWN



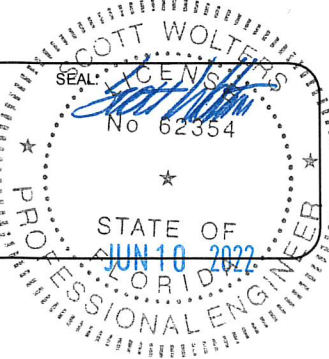
Section F-F, Medium Stile
SINGLE SLIDE FULL BREAKOUT SHOWN

Single Slide Panel Size and Daylight Opening Chart

Door Stile	Maximum Panel Width	Maximum DLO Width
Narrow	50 7/8"	43 7/8"
Medium	51 3/4"	41 1/4"
Bottom Rail	Maximum Panel Height	Maximum DLO Height
4"	96 1/8"	82 1/8"
7"	96 1/8"	79 1/8"
10"	96 1/8"	76 1/8"

SCOTT WOLTERS
FL PE# 62354

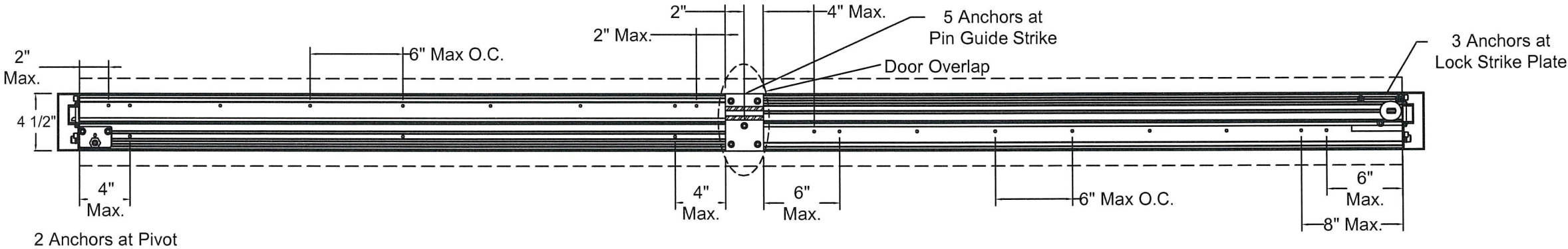
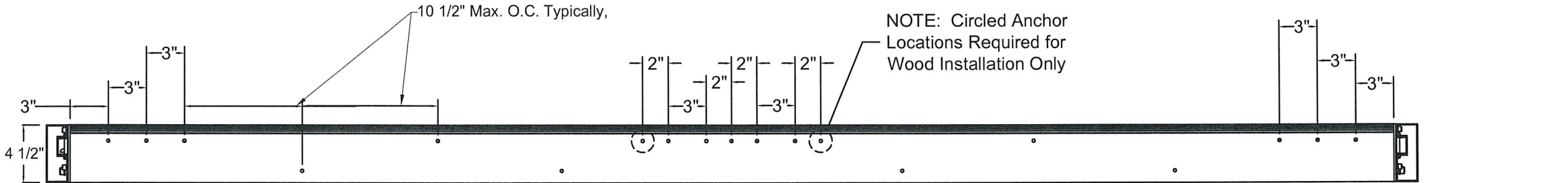
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561) 225-1982



DWG NO.	EM-DS20H-D-FBO-HVHZ		
DRAWN BY	SJF	DATE	6/16/2020
SHEET DESCRIPTION		SHEET NO.	
Single Slide Section Views		8 OF 21	

Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF
1	Frame Size Revs	6/10/22	SJF

SINGLE-SLIDE HEAD ANCHOR LOCATIONS



SINGLE-SLIDE SILL ANCHOR LOCATIONS

Single Slide Panel Size and Daylight Opening Chart		
Door Stile	Maximum Panel Width	Maximum DLO Width
Narrow	50 7/8"	43 7/8"
Medium	51 3/4"	44 3/4"
Bottom Rail	Maximum Panel Height	Maximum DLO Height
4"	96 1/8"	82 1/8"
7"	96 1/8"	79 1/8"
10"	96 1/8"	76 1/8"

SCOTT WOLTERS
FL PE# 62354

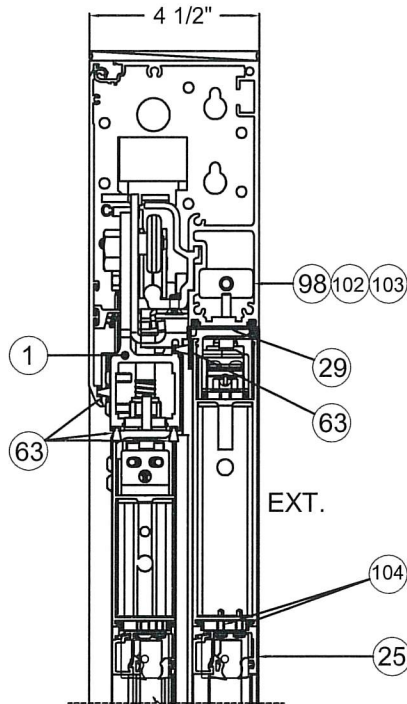
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561) 225-1982

SEAL:
No 62354
STATE OF FLORIDA
JUN 10 2022
PROFESSIONAL ENGINEER

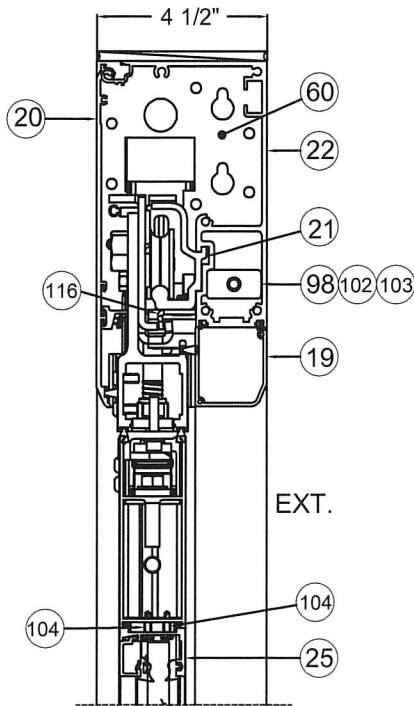
DWG NO.	EM-DS20H-D-FBO-HVHZ		
DRAWN BY	SJF	DATE	6/16/2020
SHEET DESCRIPTION		SHEET NO.	
Single Slide Head and Sill Anchoring Locations		9 OF 21	

Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF

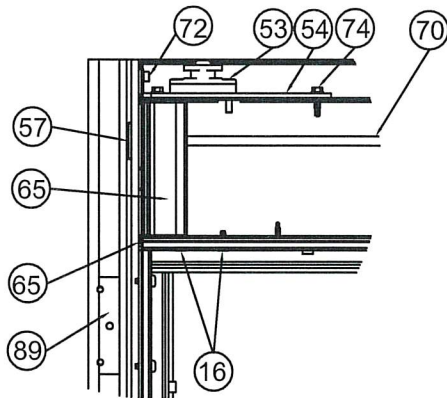
Section A-A



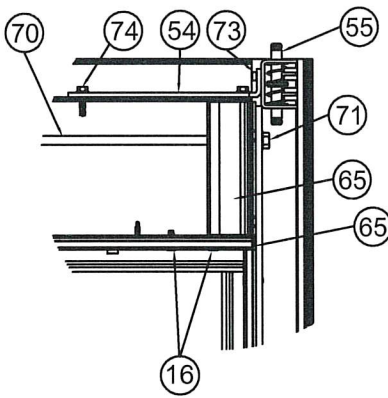
Section B-B



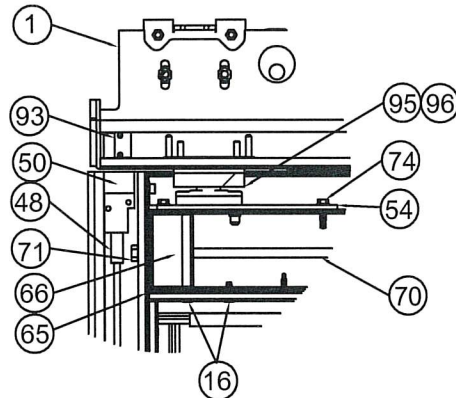
Sidelite Top Corner- Lead Side



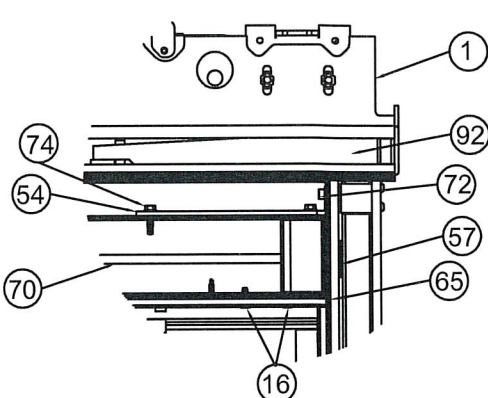
Sidelite Top Corner- Pivot Side



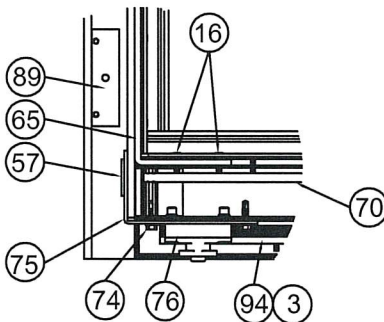
Active Leaf Top Corner- Lead Side



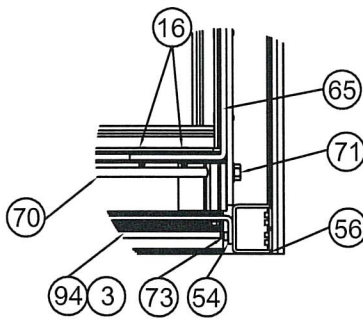
Active Leaf Top Corner-Pivot Side



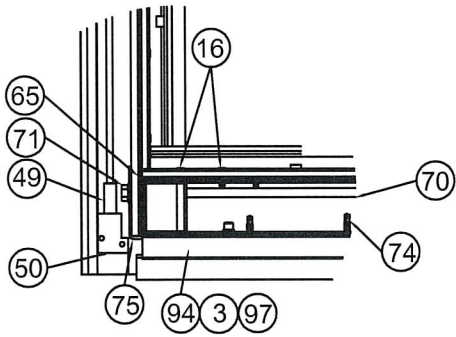
Sidelite Bottom Corner- Lead Side



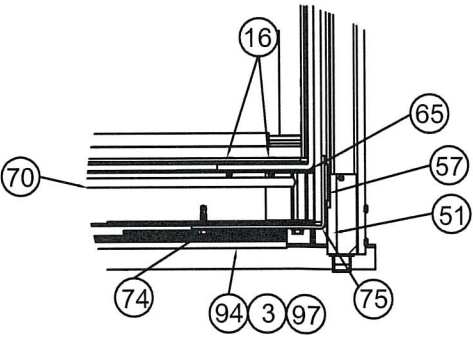
Sidelite Bottom Corner- Pivot Side



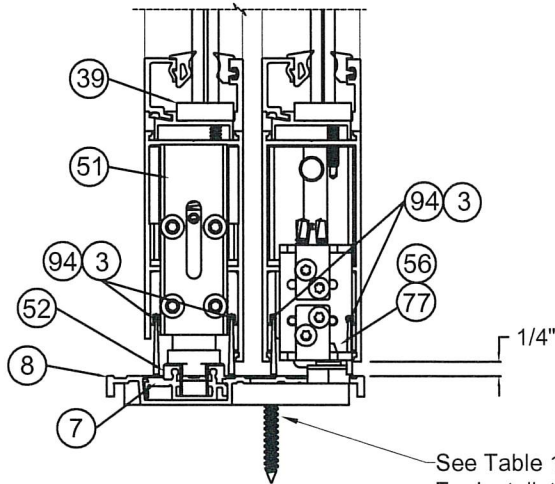
Active Leaf Bottom Corner- Lead Side



Active Leaf Bottom Corner-Pivot Side

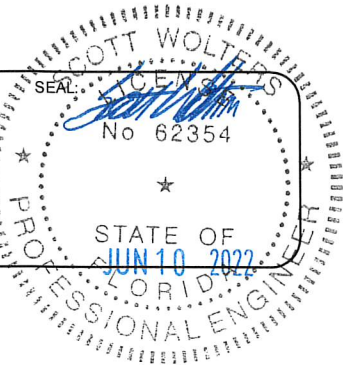


Section G-G



SCOTT WOLTERS
FL PE# 62354

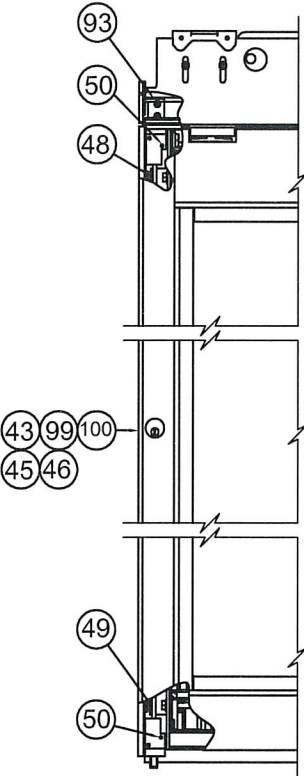
WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561) 225-1982



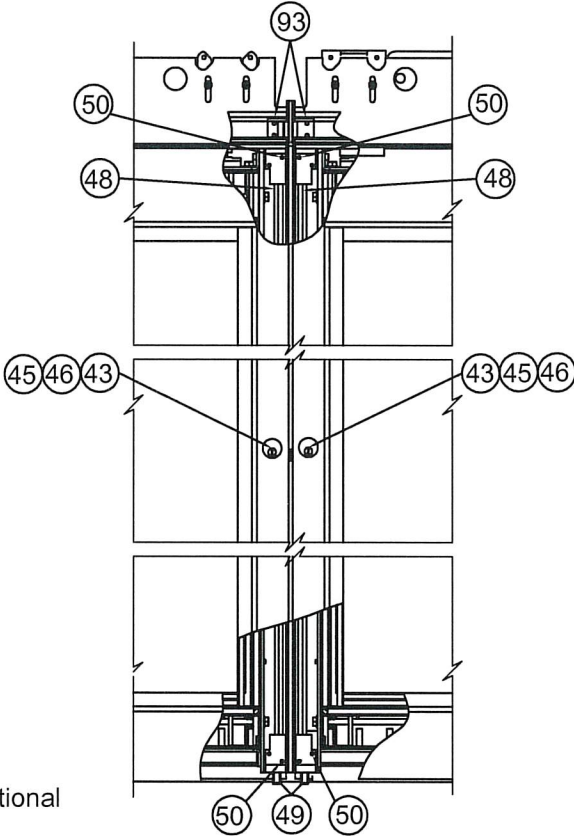
DWG NO.	EM-DS20H-D-FBO-HVHZ		
DRAWN BY	SJF	DATE	6/16/2020
SHEET DESCRIPTION	Door Connections and Head Section Views		SHEET NO. 10 OF 21

Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF

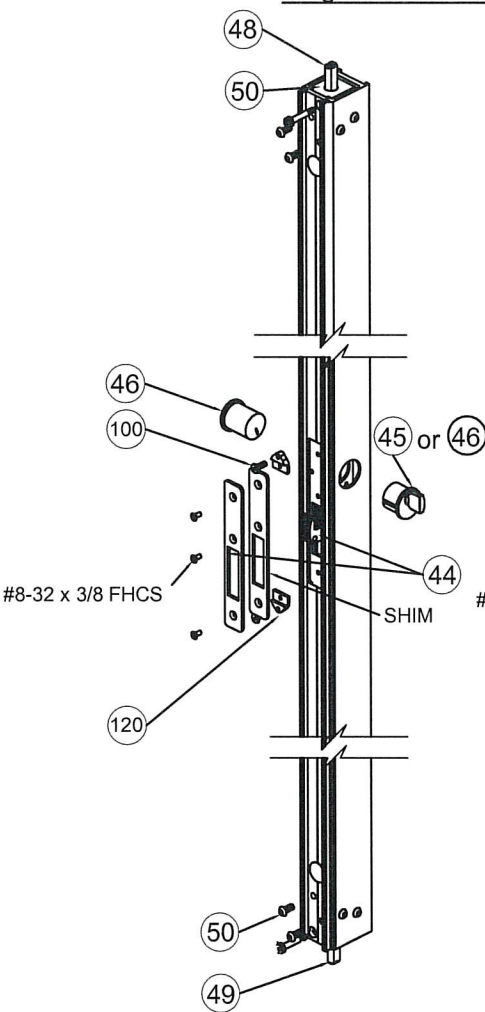
Single Slide 3-Pt Lock



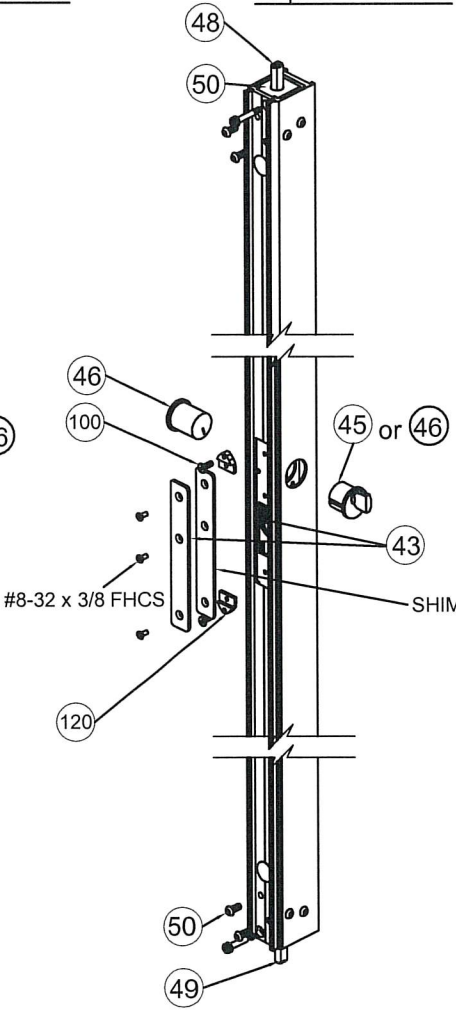
Bi-part 4-Pt Lock



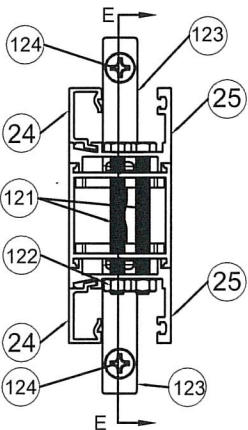
Single Slide 3-Pt Lock



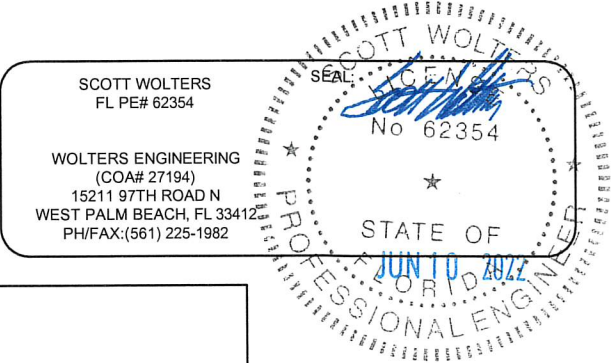
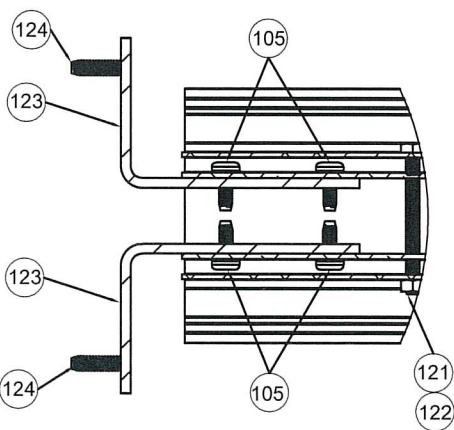
Bi-part 4-Pt Lock



Section D-D
TRUE DIVIDED
MUNTIN

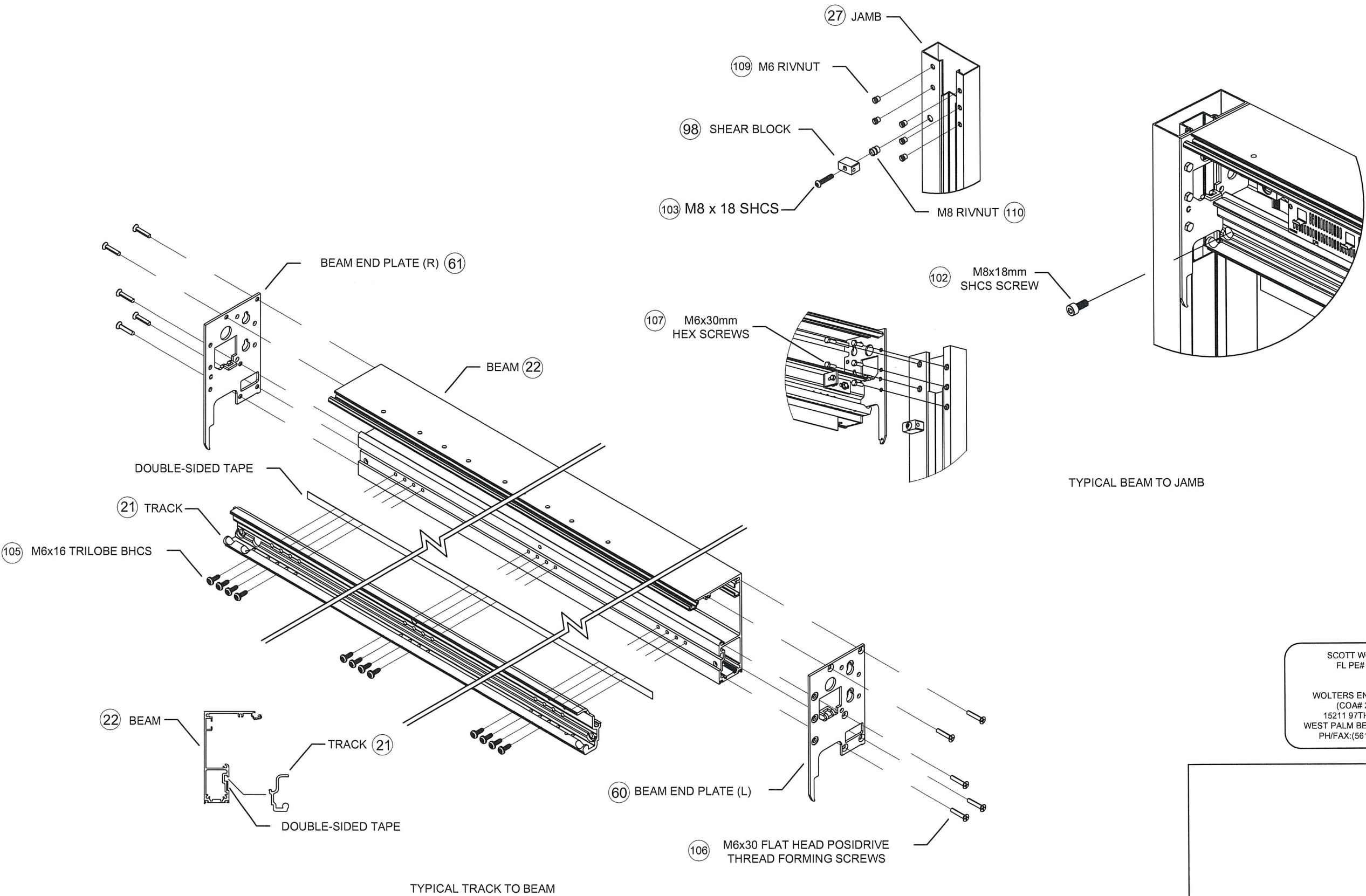


Section E-E
TRUE DIVIDED
MUNTIN



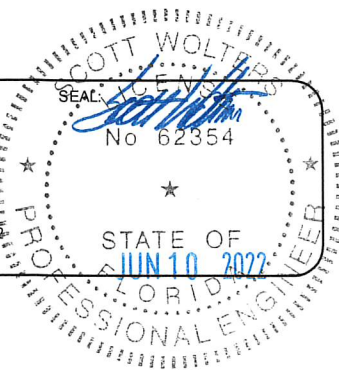
DWG NO.		EM-DS20H-D-FBO-HVHZ	
DRAWN BY		DATE	
SJF		6/16/2020	
SHEET DESCRIPTION		SHEET NO.	
Locking Details, Muntin Details		11 OF 21	

Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF



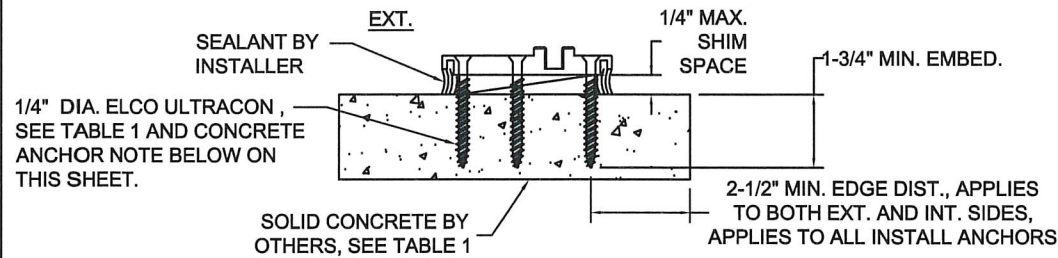
SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

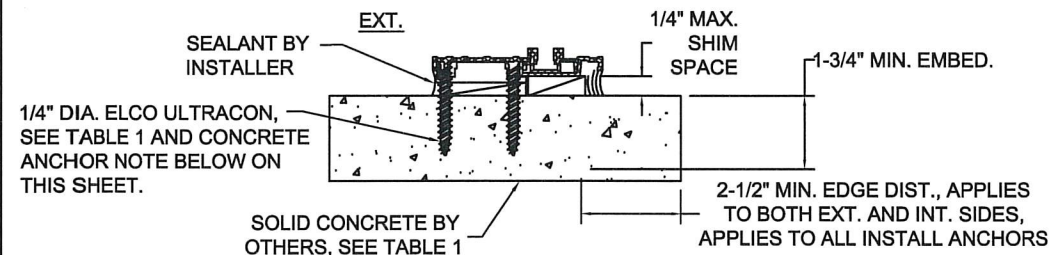


DWG NO.	EM-DS20H-D-FBO-HVHZ		
DRAWN BY	SJF	DATE	6/16/2020
SHEET DESCRIPTION	Frame Connection Details		SHEET NO. 12 OF 21

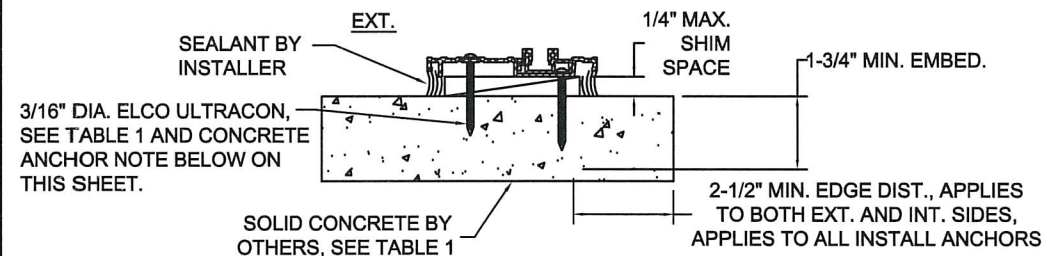
TYPICAL SILL ANCHOR DETAILS IN CONCRETE



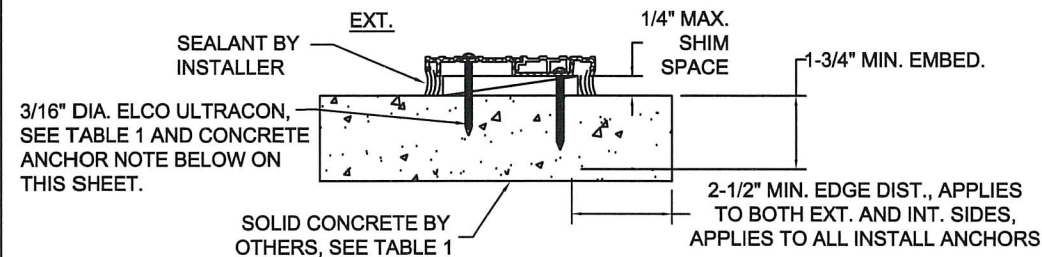
AT PIN GUIDE STRIKES



AT LOCK STRIKE PLATES

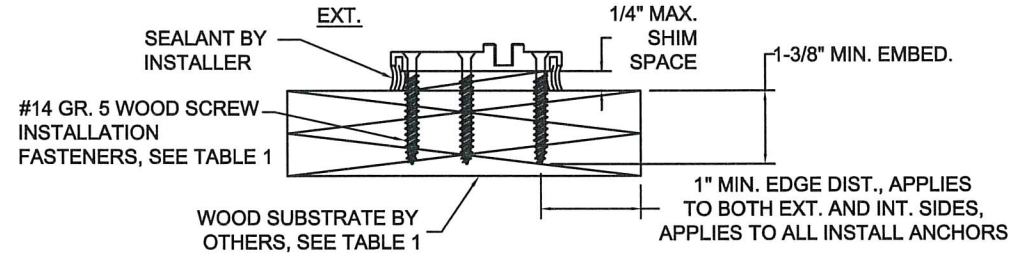


AT SIDELITE THRESHOLD

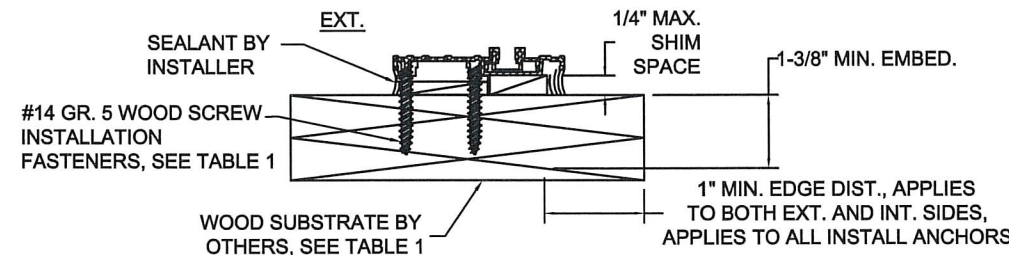


AT OPERABLE THRESHOLD

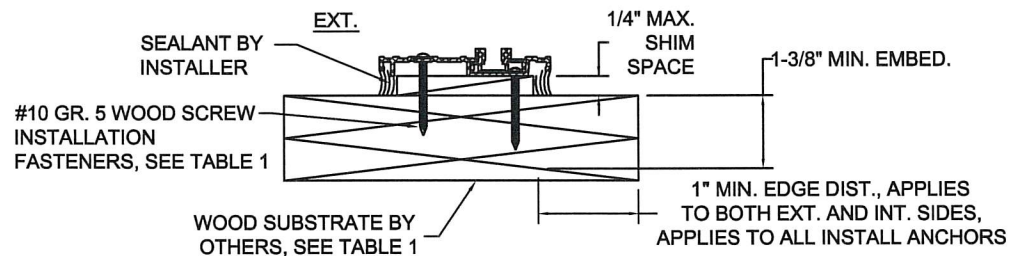
TYPICAL SILL ANCHOR DETAILS IN WOOD



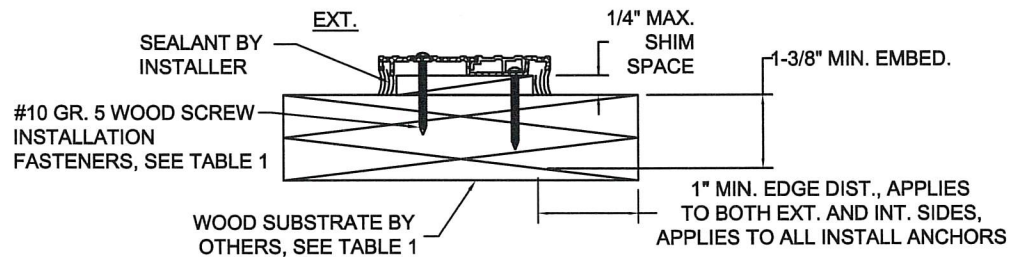
AT PIN GUIDE STRIKES



AT LOCK STRIKE PLATES



AT SIDELITE THRESHOLD



AT OPERABLE THRESHOLD

GENERAL ANCHOR NOTES:

1. INSTALL ANCHOR AS INDICATED IN DETAILS ON SHEETS 3 THRU 8 AT EACH LOCATION SHOWN IN THE ELEVATIONS ON SHEETS 3 AND 6.
2. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE.
3. 1/4" MAX. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE.
4. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO, BY OTHERS. FOR ATTACHMENT TO METAL SUBSTRATES ENSURE FULL THREAD ENGAGEMENT THROUGH METAL WALL WITH MIN. 3 THREADS BEYOND.
5. IN CMU (AT JAMBS ONLY) ENSURE 3" MIN. ON-CENTER SPACING BETWEEN ANY TWO INSTALLATION ANCHORS IN JAMB ANCHOR CLUSTERS (SEE VERTICAL SECTION DETAILS ON SHEETS 3 AND 6), AND 6" MIN. ON-CENTER ELSEWHERE AT CMU JAMBS. FOR ALL OTHER ANCHOR/SUBSTRATE TYPES (SEE TABLE 1) ENSURE 1 1/2" MIN. ON-CENTER SPACING BETWEEN ANY TWO INSTALLATION ANCHORS.
6. OPTIONAL (1x MAX) WOOD BUCKS, IF USED, MUST BE ADEQUATELY ANCHORED TO PREVENT INSTALLATION ANCHOR BENDING.

Revisions

Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF

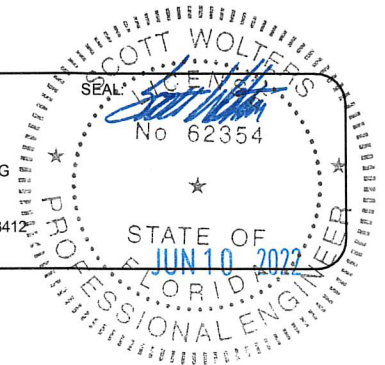
TABLE 1: INSTALLATION ANCHOR REQUIREMENTS

SUBSTRATE TYPE	ANCHOR TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE
CONCRETE (2.85 ksi MIN)	1/4" DIA. ELCO ULTRACON (TYPICALLY)	1 3/4"	2 1/2"
	3/16" DIA. ELCO ULTRACON (AT THRESHOLD ONLY)	1 3/4"	2 1/2"
HOLLOW OR GROUT FILLED CMU (ASTM C90 MIN) (JAMBS ONLY)	1/4" DIA. ELCO ULTRACON	1 3/4"	2 1/2"
2X P.T. WOOD (S.G.=0.55, MIN)	#14 GR. 5 WOOD SCREW (TYPICALLY)	1 3/8"	1"
	#10 GR. 5 WOOD SCREW (AT THRESHOLD ONLY)		
STEEL STUD (16 Ga, 45 ksi MIN)	1/4" DIA. ITW TEKS SELF-DRILLING SCREW	FULL**	1/2"
1/8" ALUMINUM (6063-T5 MIN)	1/4" DIA. ITW TEKS SELF-DRILLING SCREW	FULL**	1/2"

** FULLY PENETRATES METAL WITH 3 THREADS BEYOND

NOTE: ANCHORS ARE FLATHEAD AT ALL PLATE/STRIKE LOCATIONS AND ROUND/PAN/HEX-WASHER HEAD ELSEWHERE

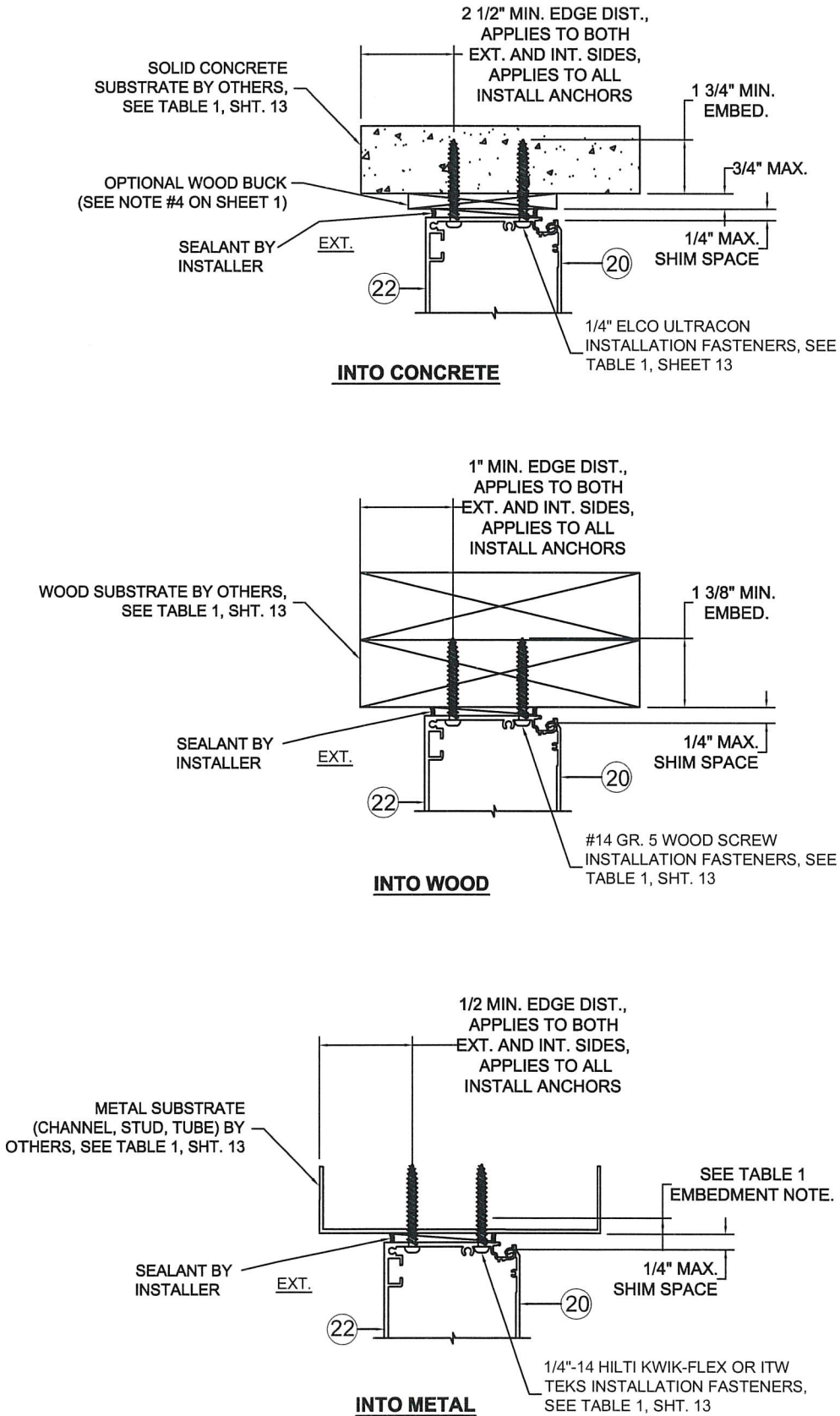
CONCRETE ANCHORS AT THRESHOLD: CONCRETE ANCHORS THAT PENETRATE THE THRESHOLD ONLY ARE 3/16" DIA. ELCO ULTRACONS. ANCHORS THAT PENETRATE DOOR HARDWARE OR STRIKE PLATES ARE 1/4" DIA. ELCO ULTRACONS.

SCOTT WOLTERS
FL PE# 62354WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

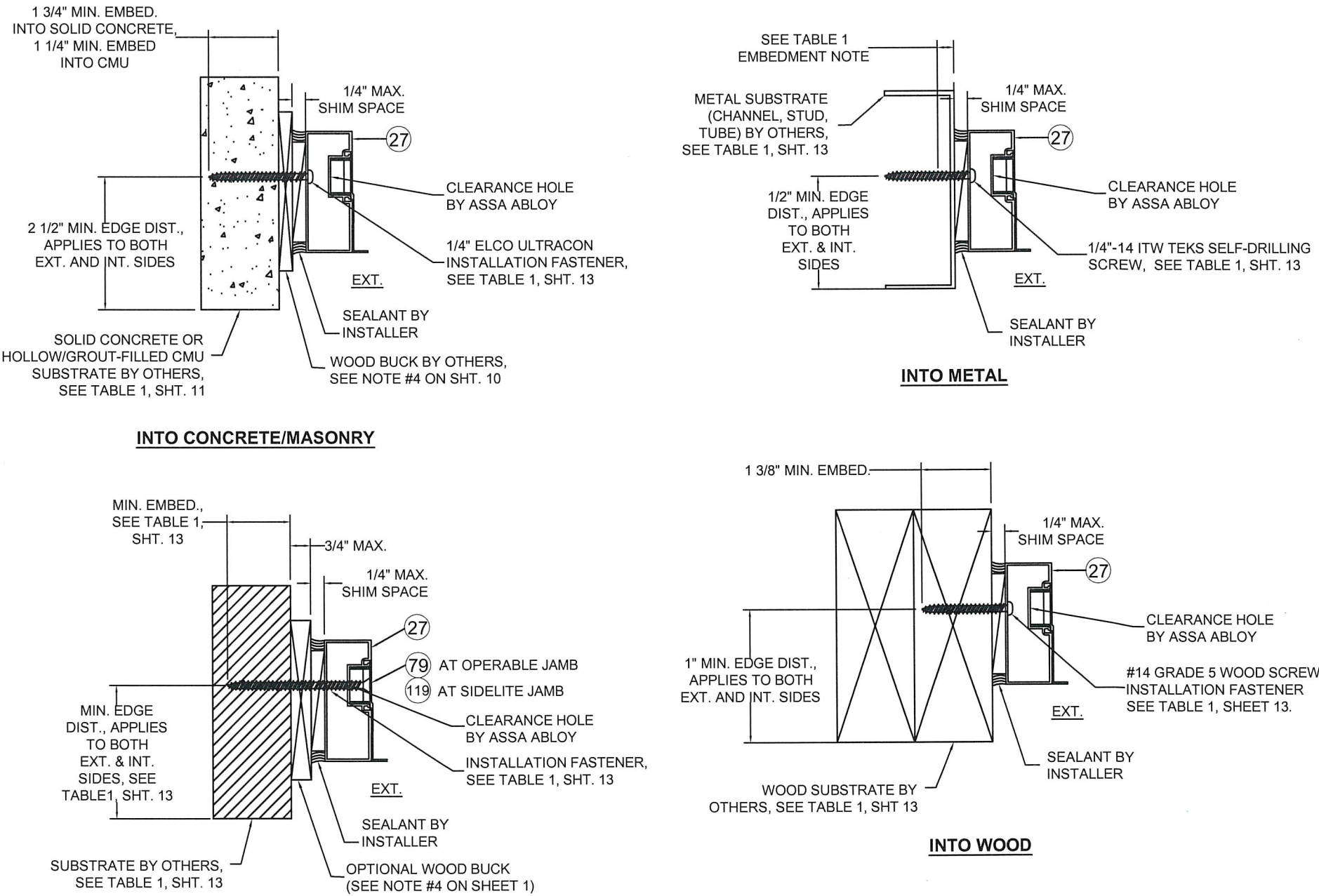
DWG NO.	EM-DS20H-D-FBO-HVHZ		
DRAWN BY	SJF	DATE	6/16/2020
SHEET DESCRIPTION		SHEET NO.	
Threshold Anchoring Details, Installation Anchor Table		13 OF 21	

Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF

TYPICAL HEAD ANCHOR DETAILS

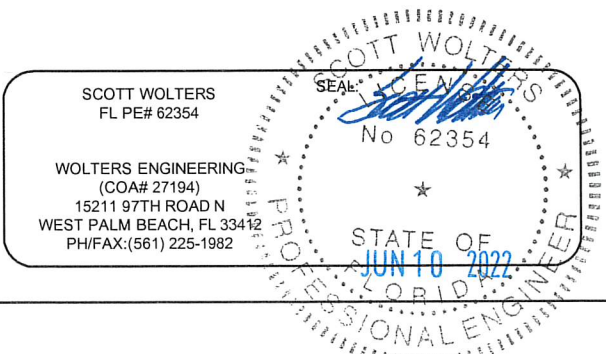


TYPICAL JAMB ANCHOR DETAILS



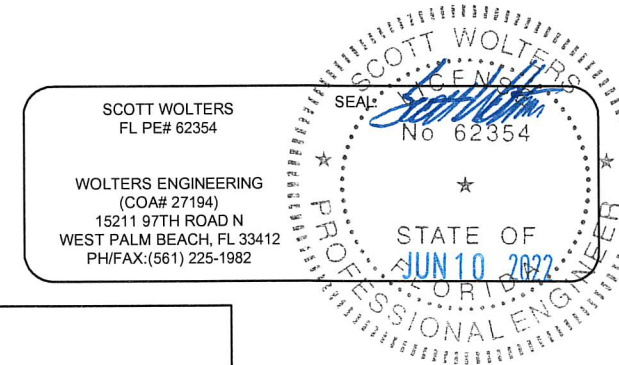
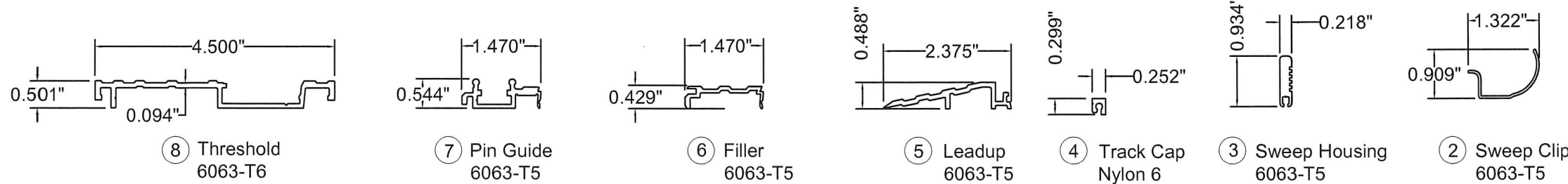
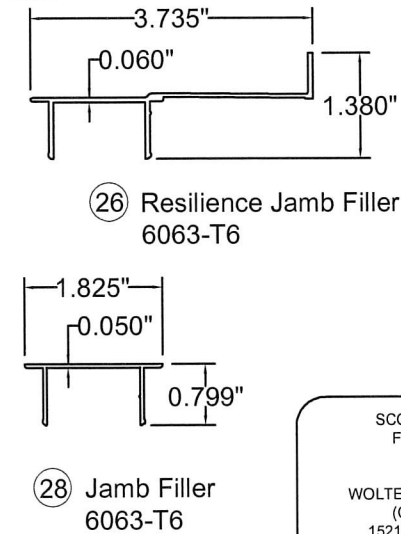
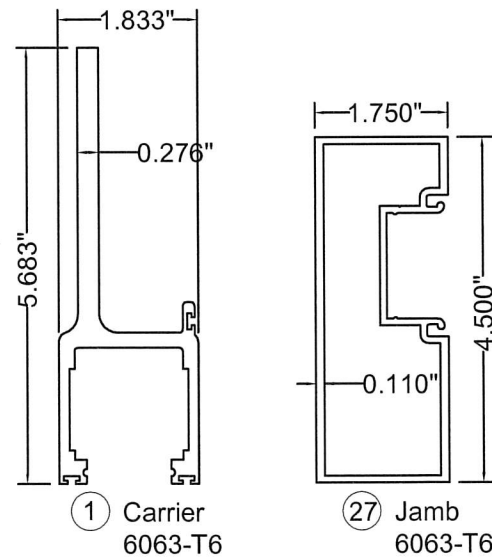
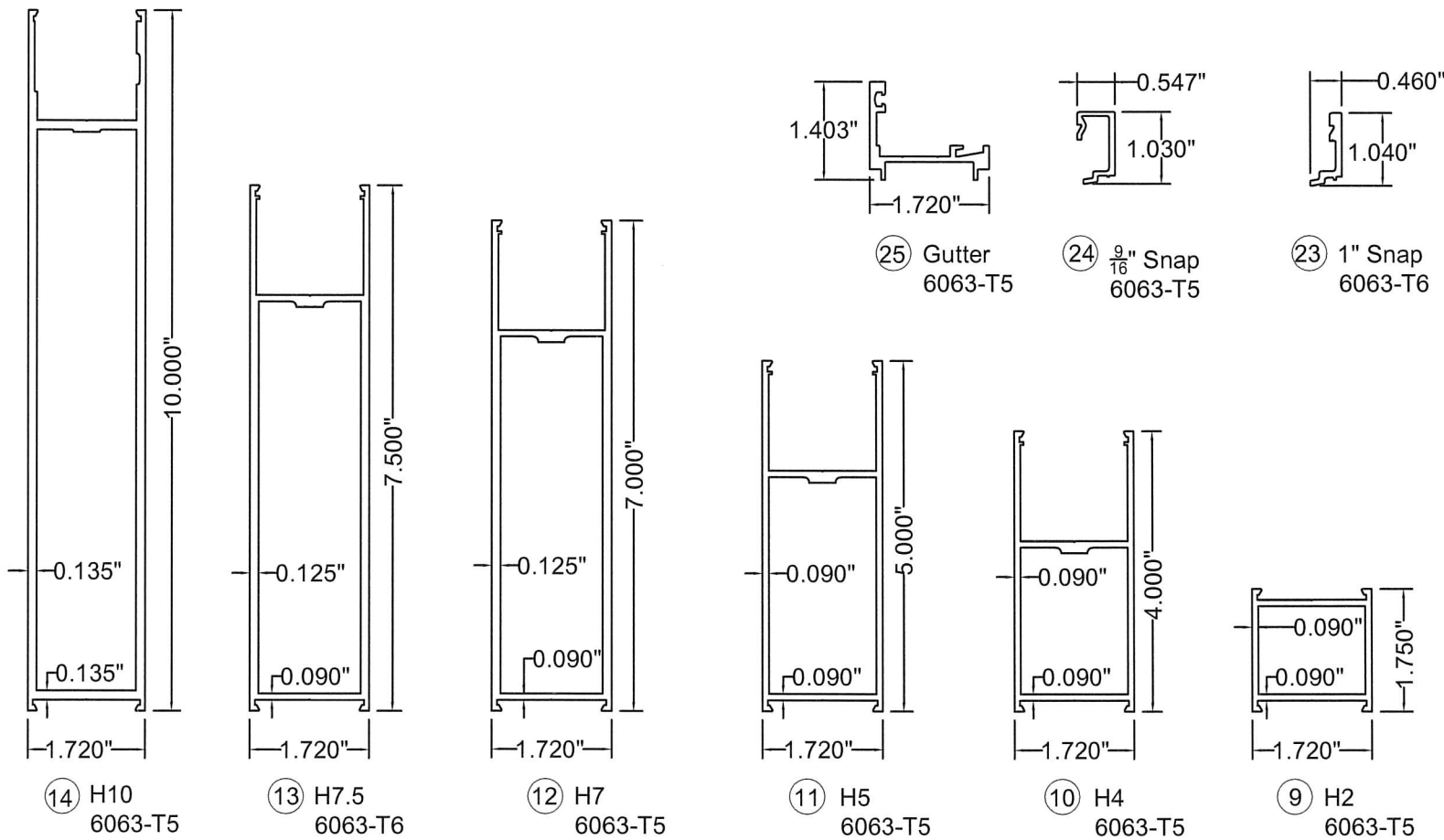
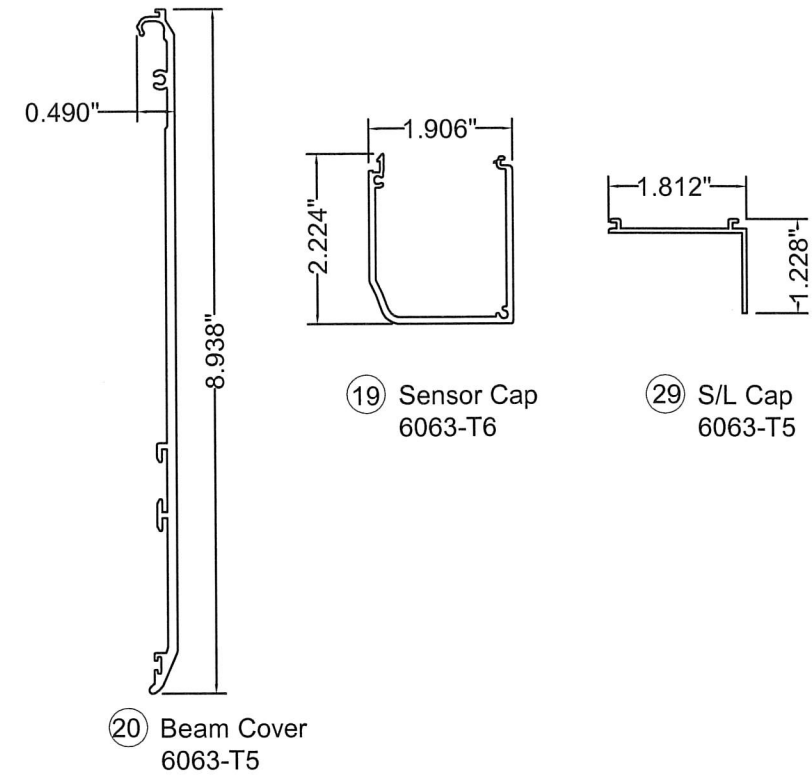
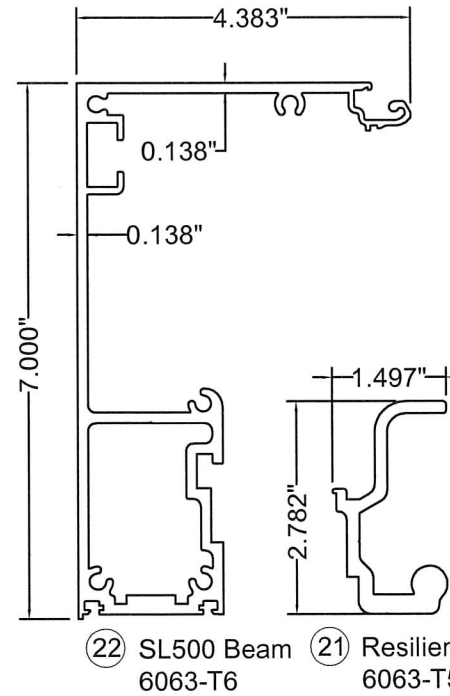
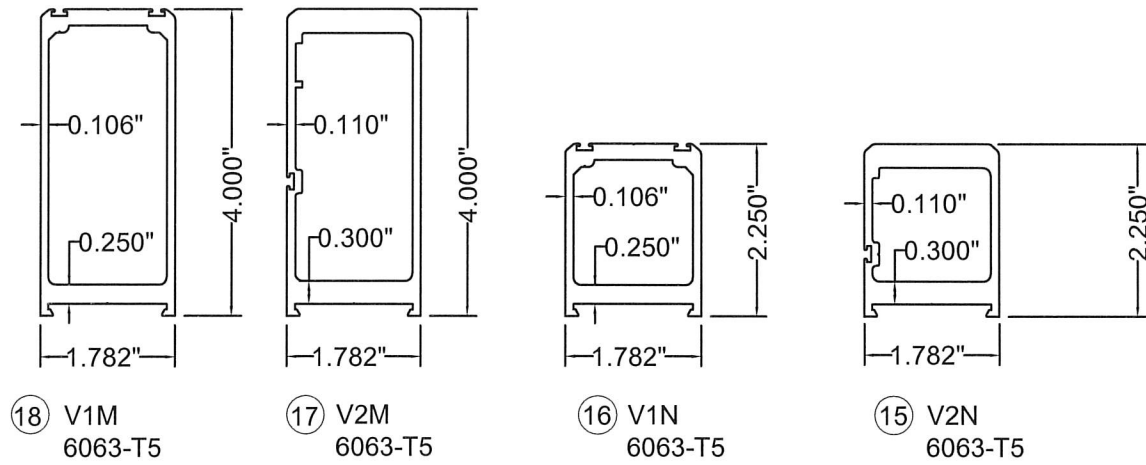
TYPICAL ALT. JAMB INSTALLATION THRU LOCK PLATE/STRIKE

SEE GENERAL ANCHOR NOTES
AND TABLE 1, SHEET 1



DWG NO.	EM-DS20H-D-FBO-HVHZ		
DRAWN BY	SJF	DATE	6/16/2020
SHEET DESCRIPTION	Head and Jamb Anchoring Details		SHEET NO. 14 OF 21

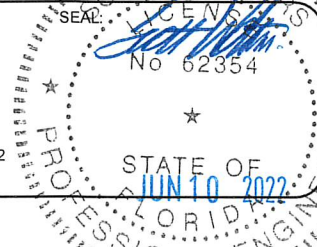
Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF



DWG NO.	EM-DS20H-D-FBO-HVHZ
DRAWN BY	SJF
DATE	6/16/2020
SHEET DESCRIPTION	Profiles
SHEET NO.	15 OF 21

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

SEAL: 



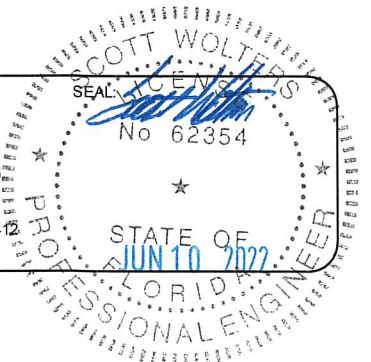
ENTREMATIC
DITEC DS20H SLIDING DOOR SYSTEM
BI-PARTING AND SINGLE SLIDING

Revisions			
Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF

111	Carrier Positive Stop Bracket, Single Slide	1017002
112	Carrier Positive Stop Bracket, Bi-Part	1016615
113	AdamsRite 1870 Flush Bolt	1870-20-0XX
114	AdamsRite 4016 Header Bolt	4016-20-01
115	AdamsRite 8600 Exit Device - Optional	G86-11-XX
	NOTE: Items 113-115 include Concealed Rods	
116	Beam Interlock Hook	1016622
119	Jamb Interlock Strike	US04-0948
120	XG Lock Body Mounting Block	1019595
121	M6x60mm HHCS	1703666
122	M6 Hex Nut	04-09-726016
123	XG Muntin 'L' Bracket, Resilience	1019660
124	M6x25mm FHCS, Thread Former	1703678
Pos.	Description	Part.no.

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 334
PH/FAX:(561) 225-1982

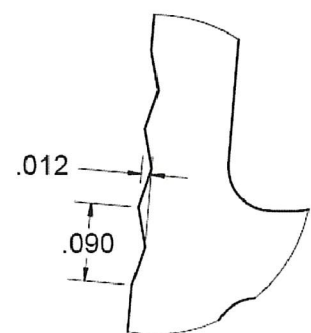
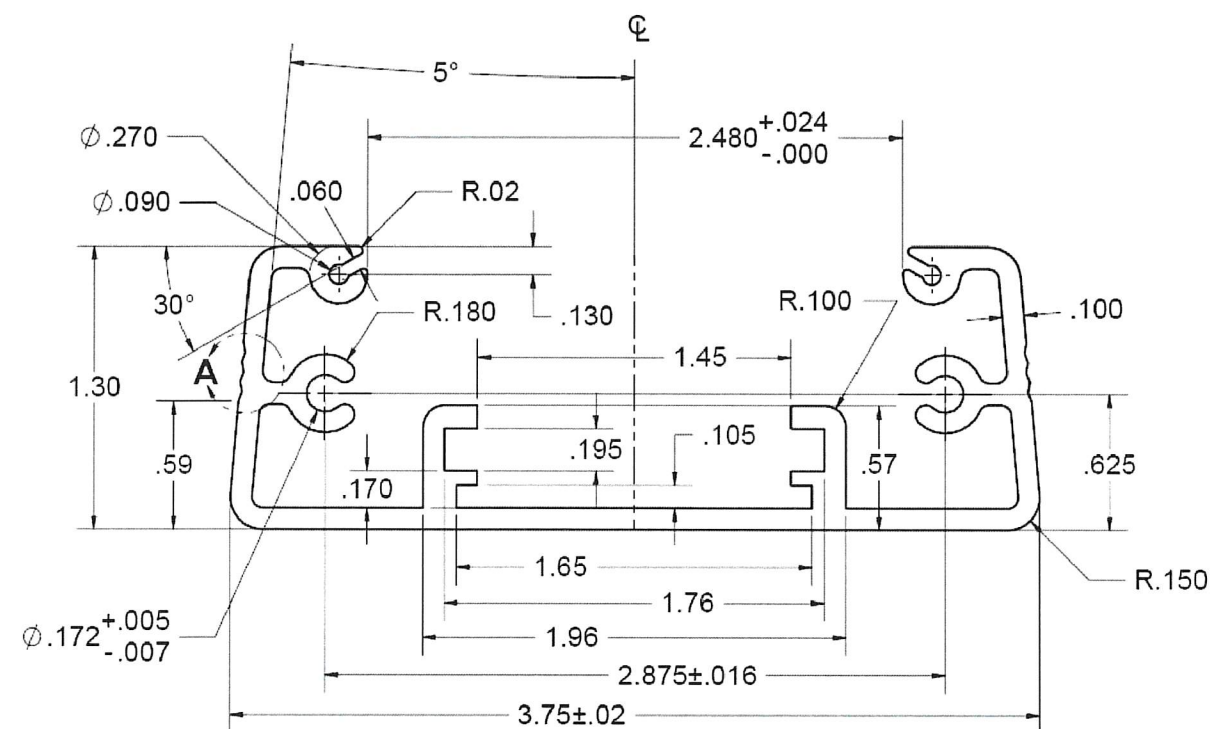


DWG NO.		EM-DS20H-D-FBO-HVHZ	
DRAWN BY SJF		DATE 6/16/2020	
SHEET DESCRIPTION Bill of Materials, Sheet 2 of 2		SHEET NO. 17 of 21	

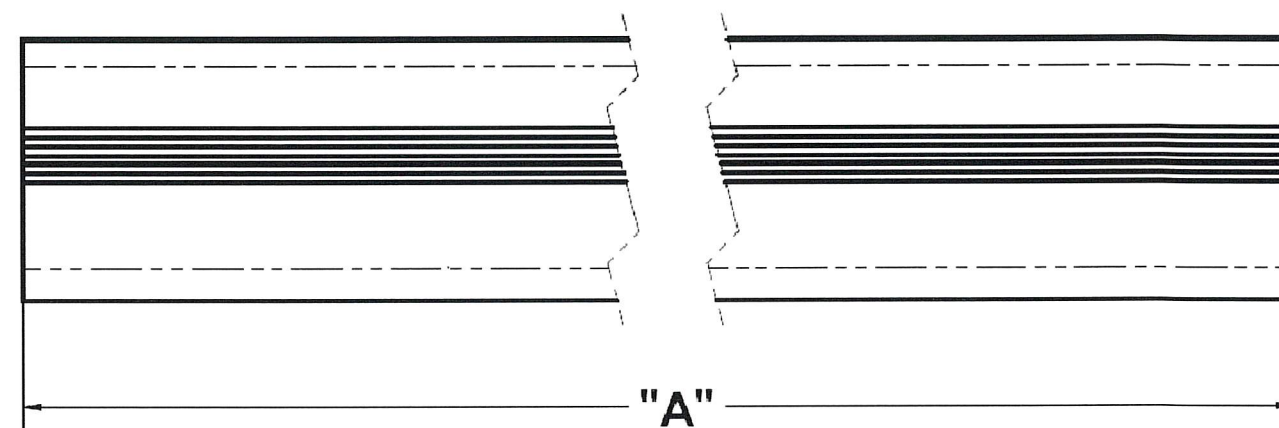
ENTRE//MATIC

**ENTREMATIC DITEC DS20H FULL BREAKOUT
LARGE & SMALL MISSILE IMPACT LEVEL D DOOR SYSTEM
ITEM NO. 115 - ADAMS RITE G86 (8600) EXIT DEVICE EXTRUSION
DETAILS - INTERIOR EXTRUSION**

EXTRUSION
PUSH BAR G8X



DETAIL A
SCALE 8 : 1



6. POST BAKE: NONE.
5. FINISH: 60 RMS OR BETTER.
4. HEAT TREAT: NONE.
3. MATERIAL: 6063-T6 ALUMINUM. (13'-8" LONG).
2. BREAK ALL SHARP EDGES.
1. ALL DIMENSIONS ARE FINISHED DIMENSIONS.

NOTES: UNLESS OTHERWISE SPECIFIED.

P/N	DIM "A"
24-0870-30-XXX	26.125
24-0870-36-XXX	32.125
24-0870-42-XXX	38.125
24-0870-48-XXX	44.125

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

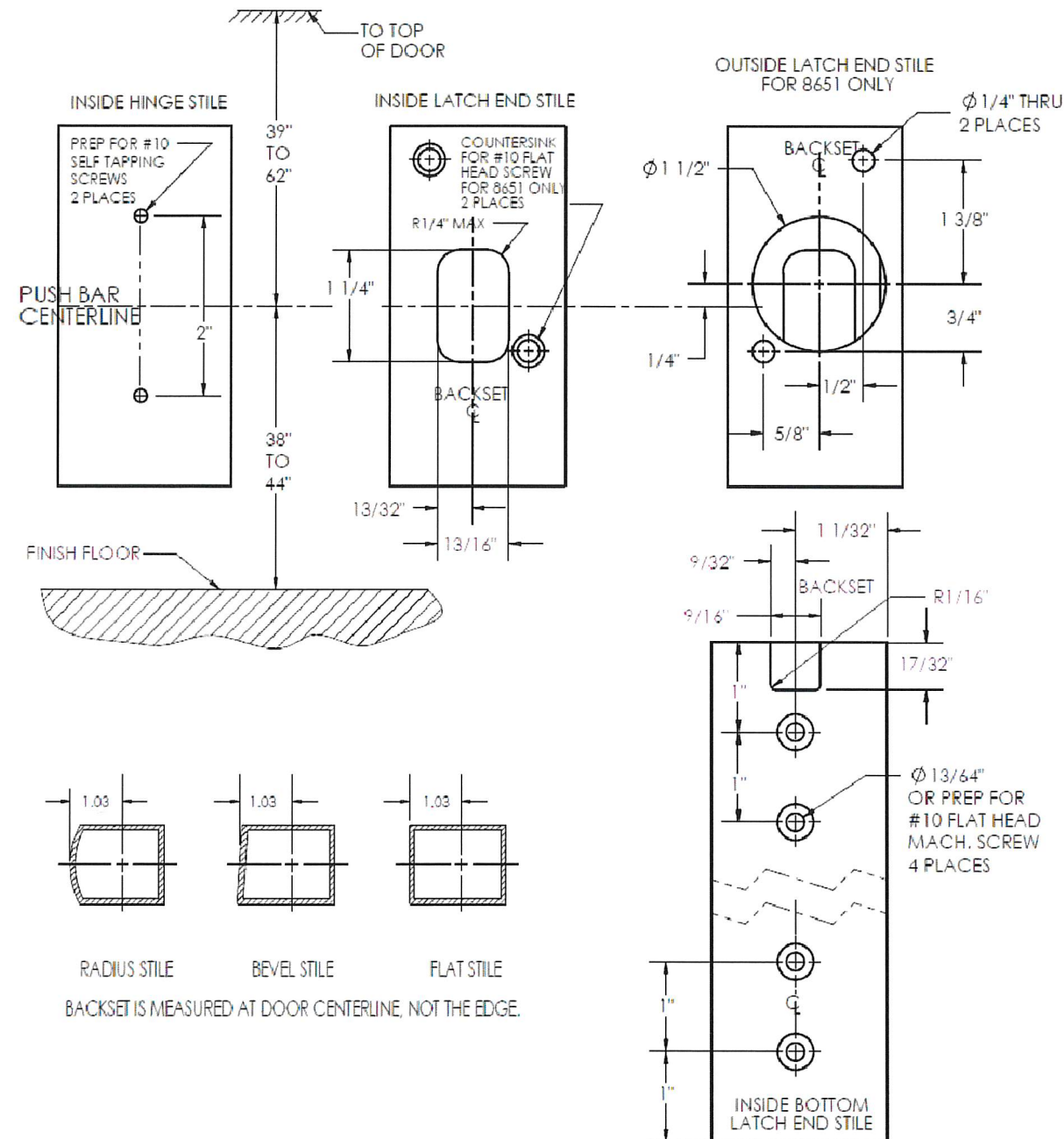
SCOTT WOLTERS
 SEAL
 No 62354
 ★
 STATE OF FLORIDA
 JUN 10 2022
 PROFESSIONAL ENGINEER

DWG NO.		EM-DS20H-D-FBO-HVHZ	
DRAWN BY		DATE	
SJF		6/16/2020	
SHEET DESCRIPTION			SHEET NO.
Panic Exit Device Interior Profile			18 of 21

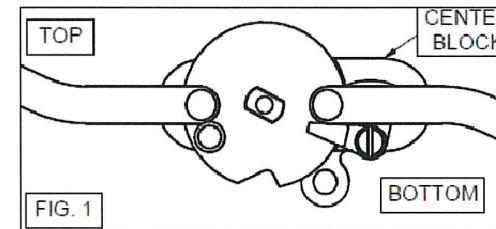
ENTRE//MATIC

ENTRE//MATIC

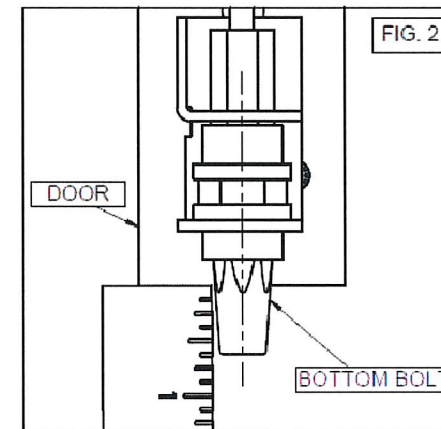
1. Prepare doors as shown. This product must be installed according to all applicable building and life safety codes.



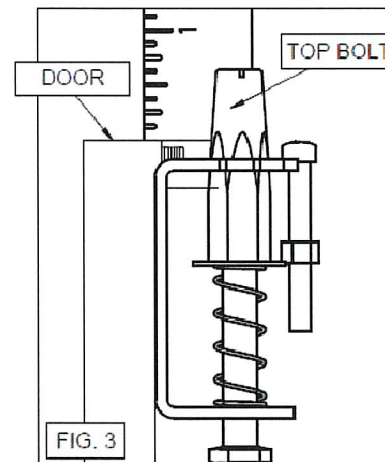
2. Pre-adjust rod assembly.
 - a. Lay rod assembly on the face of the door with center block protruding into installation hole.
 - b. Fully extend rods as shown.



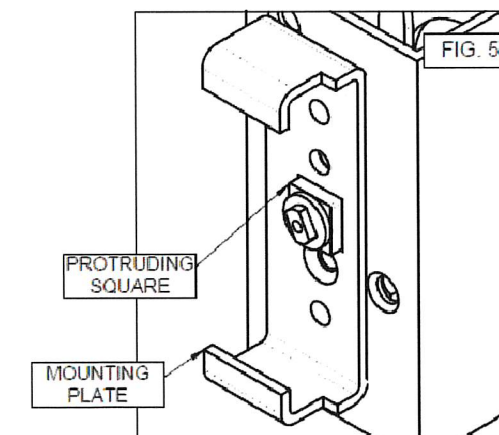
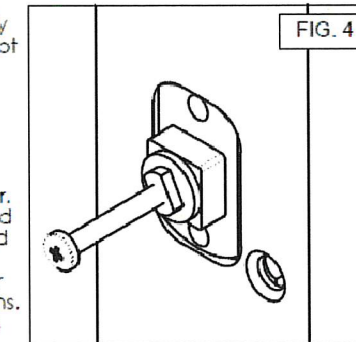
- c. Adjust bottom bolt for 5/8" projection from bottom of door.



- d. Set the top bolt for 5/8" projection from top of door.



3. Install rod assembly
 Note: Be careful not to bend the rods when handling.
 - a. Turn over and insert rod assembly into door from the top of the door.
 - b. The bolts should extend beyond the stile.
 4. Cutting the bar for custom door widths.
 - a. The push bar is the correct length for a minimum door width of 30" and does not require cutting.
 - b. The back bar comes in two standard lengths for 48" and 36" doors. For other door widths, the back bar and cover strip needs to be cut. You will need to cut the same amount from both the back bar and cover strip. And it is recommended to cut them at the same time using a fine tooth blade or panel saw blade. When measuring the back bar length, make sure it will overlap the vertical stiles by at least 1/8" on both sides. The mounting plates on either side are meant to pinch the back bar against the stiles to prevent noise.
 5. Insert the back bar onto the scissor cartridge from the scissor end and slide up to within 2" of the lock end.
 6. Secure center block
 - a. You may have to pull bottom bolt down to align center block with cutout.
 - b. Install a screw #6-32x2" into the center block as shown to aid in pulling and holding the center block into position.
 - c. Locate the center block in the rectangular hole.
 - d. If you are installing an exterior key cylinder, see step 20.
 - e. Align the protruding square of the center block with the square hole in mounting plate and place onto the center block.



SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX:(561) 225-1982

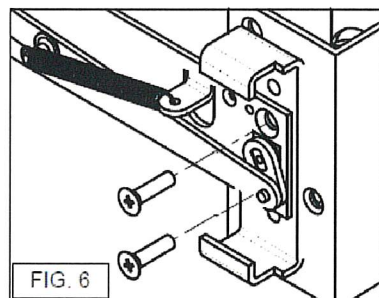
SCOTT WOLTERS
SEAL: LICENSED
No 62354
STATE OF
FLORIDA
JUN 10 2022
PROFESSIONAL ENGINEER

**ENTREMATIC DITEC DS20H FULL BREAKOUT
LARGE & SMALL MISSILE IMPACT LEVEL D DOOR SYSTEM
ITEM NO. 115 - ADAMS RITE G86 (8600) EXIT DEVICE
INSTALLATION DETAIL - SHEET 1**

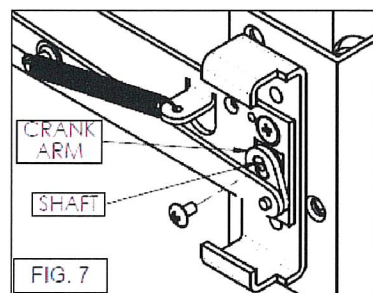
DWG NO.		EM-DS20H-D-FBO-HVHZ	
DRAWN BY		DATE	6/16/2020
SHEET DESCRIPTION		SHEET NO.	
Panic Exit Device Installation		20 of 21	
Details, Sheet 1 of 2			

Rev	Description	Date	Approved
-	Initial Release	6/16/20	SJF

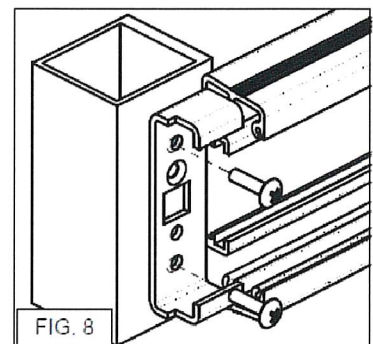
- f. Place scissor cartridge on center block and secure with two 10-32 x 3/4" flat head machine screws.



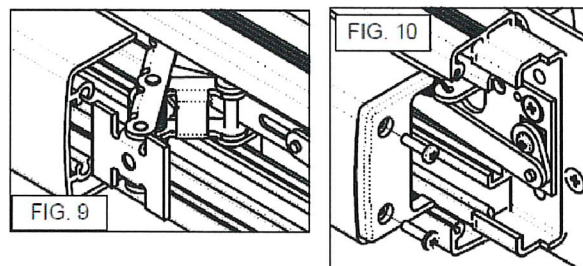
7. Secure crank arm
- Remove helper screw.
 - Align crank arm with shaft. You may have to operate the push bar scissors to align tab with slot.
 - Secure with one 6-32 x 1/4" truss head machine screw.



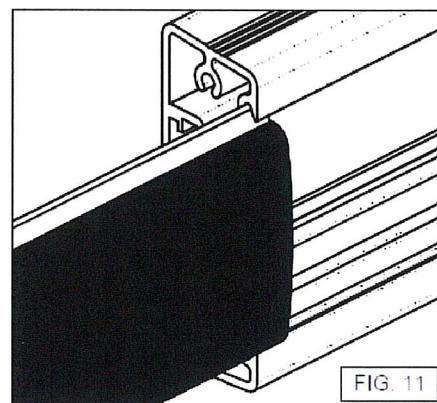
8. Insert mounting plate from the hinge side onto the back bar and secure with two 10-32 x 3/4" self-tapping screws on the triangle side stile.



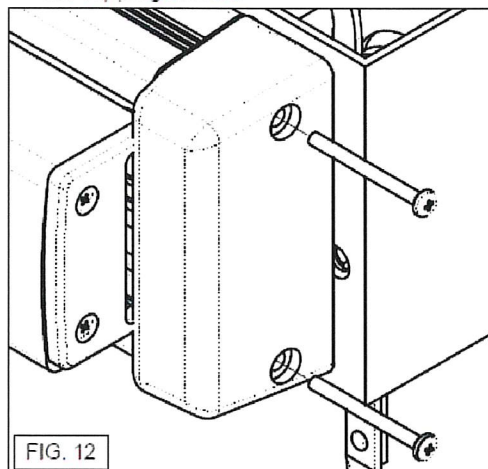
9. Insert push bar and secure end caps with four 10-32 x 1/2" self-tapping screws.



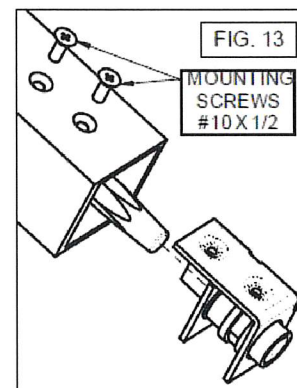
10. Insert cover strip into back bar. Push in until flush with back bar extrusion.



11. Install base caps and secure with four 10-32 x 2" self-tapping screws.

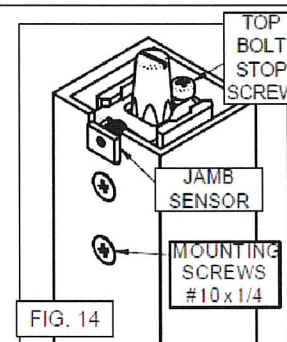


12. Insert bottom bolt (Fig. 13) guide with the plastic guide towards the bottom. And secure with two 10-32 x 1/2" flat head machine screws. The bottom screw will lock the bottom bolt adjustment, leave this screw loose until final adjustment.



13. Secure top latch (Fig. 14) assembly

- If necessary, depress the jam sensor to release the top bolt.
- Secure with two 10-32 x 1/4" flat head machine screws.



14. Check operation:

- Fully depress the push bar and release.
- Top bolt will retract & latch.
- If it doesn't hold - adjust top bolt stop screw out until top bolt is retained.
- When the push bar is completely pushed in and then released, you should see about 1/16" movement of the top bolt.

15. Check operation: push top jam sensor.

- Top bolt will project.
- If it doesn't - check rods for binding.

16. Now install the door into the frame.

17. Mark the locations for the bolt holes very carefully.

- Misalignment of these holes will prevent the bolts from fully traveling into the deadlocked position.
- Don't forget to allow for weather stripping.

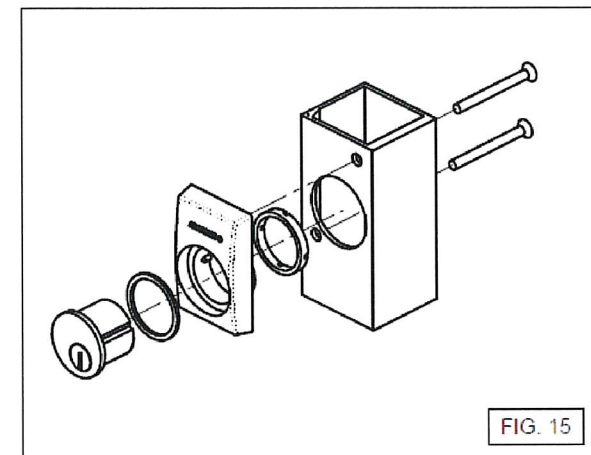
18. Drill 9/16" holes where required.

19. Now close the door and repeat step 13 - check operation.

20. If you have excessive door gaps at the top or bottom, you may adjust the bolts for greater engagement with the header or threshold.

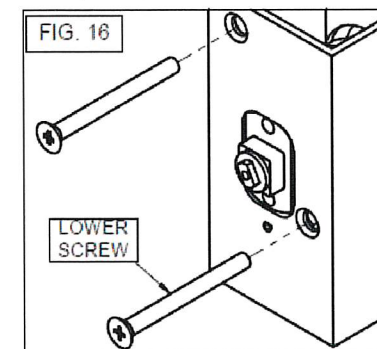
- Open the door.
- Top Adjustment:
 - Measure the door gap at the header. (example: 1/4")
 - Add to this measurement 1/2" (example: 1/4" + 1/2" = 3/4")
 - Push in push bar to retract the top latch.
 - Adjust the top bolt to extend above the door by sum above. (example: 3/4")
 - Repeat step 14.
- Bottom Adjustment:
 - Loosen the bottom mounting screw of the bottom bolt guide.

- Turn the bolt until there is approximately 1/16" to 1/8" clearance.
 - Secure the bottom mounting screw.
21. Installing Key Cylinder (Fig. 15)
- Once you have completed Step 5, assemble the cylinder escutcheon as shown using the appropriate number of spacers to prevent



the cylinder cam from bottoming out on the center block assembly.

- Secure the cylinder escutcheon assembly to the stile with the 2" long flat head screws provided. Note: the lower screw nests into a boss in the center block. (Fig. 16)
- Once the installation is complete, check operation by turning the key a quarter turn counter clockwise to 'open' the door. Remove the key and close the door, it should lock.
- To dog the bolts 'open', hold the door open and turn the key clockwise until stop. Check by closing the door, it should remain unlocked. To reset the lock from the dogged position, use the key to 'open' the door.



SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N
WEST PALM BEACH, FL 33412
PH/FAX: (561) 225-1982

SEAL
No 62354

STATE OF
FLORIDA

DWG NO.	EM-DS20H-D-FBO-HVHZ
DRAWN BY	SJF
DATE	6/16/2020
SHEET DESCRIPTION	Panic Exit Device Installation
Details, Sheet 2 of 2	SHEET NO. 21 of 21

ENTRE/MATIC

ENTRE/MATIC DITEC DS20H FULL BREAKOUT LARGE & SMALL MISSILE IMPACT LEVEL D DOOR SYSTEM ITEM NO. 115 - ADAMS RITE G86 (8600) EXIT DEVICE INSTALLATION DETAIL - SHEET 2