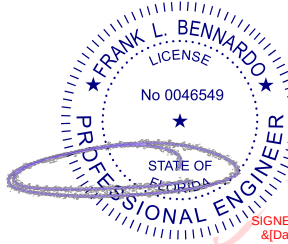


ESA 300 AUTOMATIC SLIDING GLASS DOOR
LARGE MISSILE IMPACT RESISTANT - FULL BREAKOUT
HVHZ

NOTE REGARDING USE OF THIS DOCUMENT &
USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS
PRODUCT EVALUATION IS VALID FOR USE IN FLORIDA ONLY. USE OF THIS
EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN
PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER
ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY
SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE AT
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PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS
DOCUMENT OUTSIDE OF FLORIDA.

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Frank Bennardo
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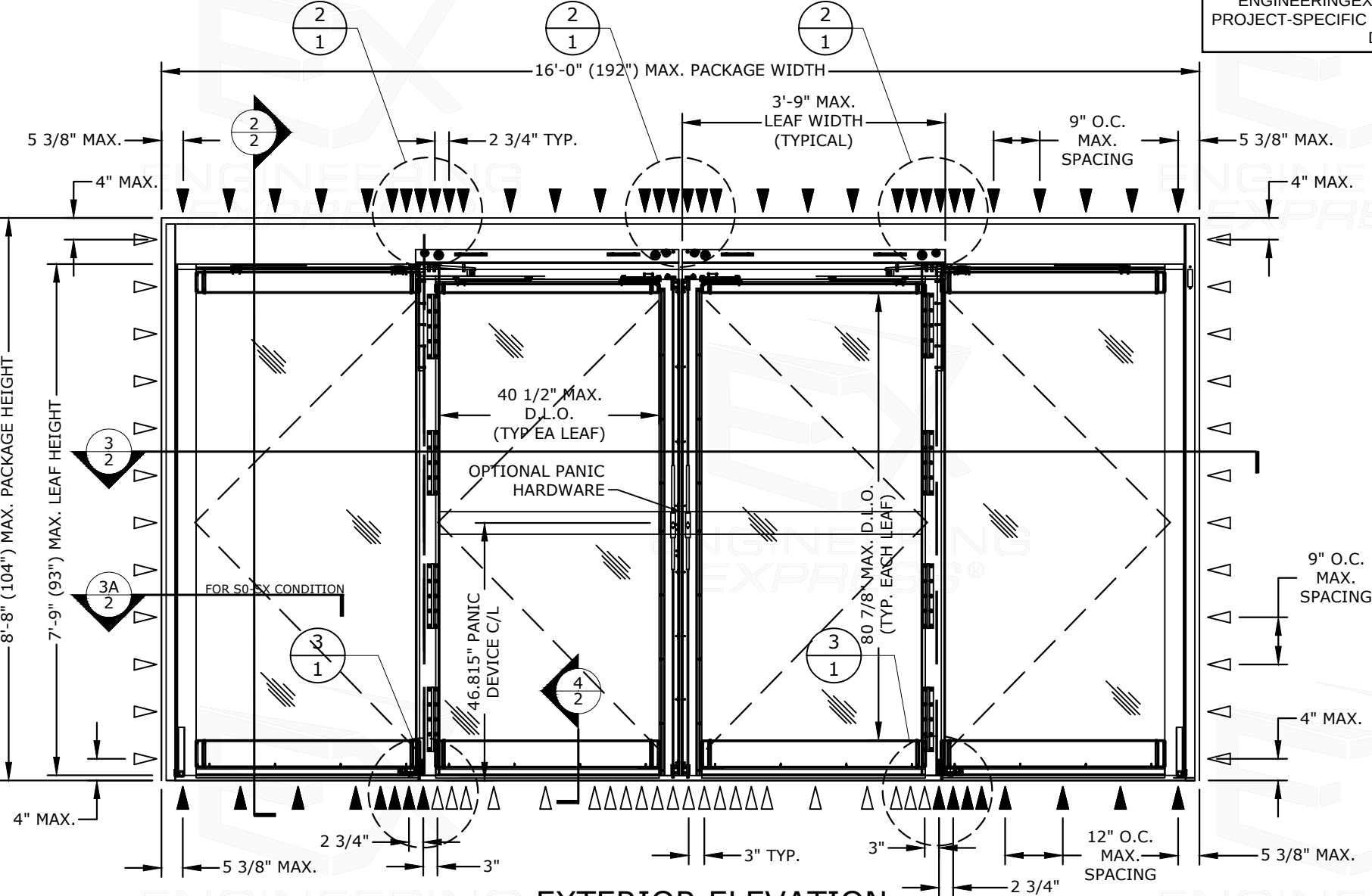
ESA 300 SERIES - AUTOMATIC SLIDING GLASS DOORS
(LARGE MISSILE IMPACT) - FBC EIGHTH ED. (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#21866.3)

DATE	DRWN	CHKD	REMARKS
09/23/15	SSQ	FLB	INIT ISSUE
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10/05/20	CCB	AJP	2020 FBC (20-29502)
09/19/23	AMZ	RMS	2023 FBC

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1 OF 4



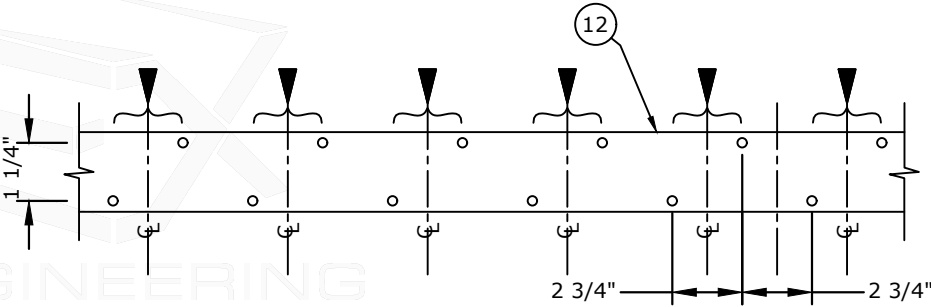
EXTERIOR ELEVATION
SO-SX-SX-SO, SO-SX AND SX-SO (CONFIGURATION)
ELEV.

DESIGN PRESSURE RATING			
	WHERE WATER INFILTRATION REQUIREMENT IS NEEDED.	WHERE WATER INFILTRATION REQUIREMENT IS NOT NEEDED.	
GLAZING TYPES	"C" OR "D" *	"C" OR "D"*	
POSITIVE	NOT APPROVED	+ 52.4 PSF **	
NEGATIVE	NOT APPROVED	- 52.4 PSF **	

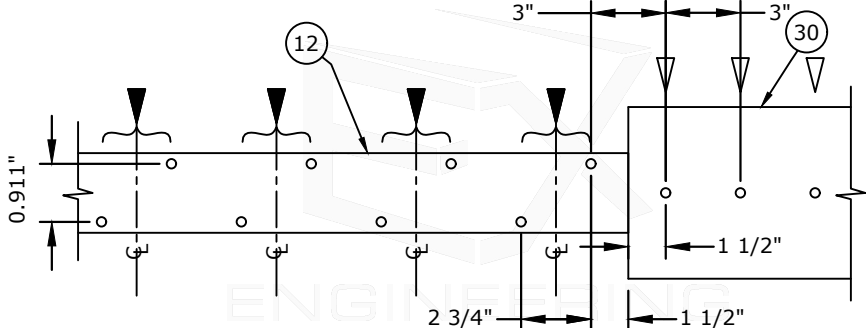
* SEE GLAZING SCHEDULE ON SHEET "2"
** NOTE: WHEN OPTIONAL PANIC HARDWARE IS USED, MAXIMUM DESIGN PRESSURE IS +/- 45 PSF

GENERAL NOTES:

- THIS PRODUCT HAS BEEN TESTED & DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) - HIGH VELOCITY HURRICANE ZONE (HVHZ) - AND HVHZ TEST PROTOCOL TAS 201, 202 & 203 AS LARGE MISSILE IMPACT RESISTANT SYSTEM. THE SYSTEM CAN BE USED WITHIN AND OUTSIDE THE HVHZ.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- POSITIVE & NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. WHERE SITE CONDITIONS DIFFER FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND ADDITIONAL IMPOSED LOADS. WOOD BUCKS NOT BY THIS PRODUCT MANUFACTURER SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE HOST STRUCTURE.
- THE PRODUCT DETAILED HEREIN HAS BEEN DESIGNED AND TESTED TO THE MAXIMUM SPANS & LOADS SHOWN ON THESE DRAWINGS.
- ALL ALUMINUM EXTRUSIONS ARE 6063-T5 OR 6063-T6 ALUMINUM.
- ALL UNITS ARE LARGE MISSILE IMPACT RESISTANT AND DO NOT REQUIRE IMPACT RESISTANT SYSTEMS FOR ALL EXTERIOR DOOR INSTALLATIONS.
- ANCHORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS, SPACED AS NOTED HEREIN. ANCHOR EMBEDMENT TO BASE MATERIAL DOES NOT INCLUDE WALL DRESSING OR STUCCO.
- ALL BOLTS & WASHERS SHALL BE ZINC COATED, GALVANIZED, OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI, EXCEPT INSTALLATION ANCHORS.
- ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR COATED.
- STRUCTURAL SILICONE ADHESIVE IS APPLIED ATOP OF HEADER, JAMBS, AND BELOW SIDE GUIDE, SPACER, AND THRESHOLDS.
- PERIMETER WATER IS BY OTHERS AND NOT INCLUDED IN THIS CERTIFICATION



2 HEAD CLUSTER
1 N.T.S. PLAN VIEW



3 SILL CLUSTER
1 N.T.S. PLAN VIEW

ANCHOR LEGEND:

- INDICATES SINGLE ANCHOR (INLINE)
- INDICATES STAGGERED PAIR OF ANCHORS (CENTERLINE SHOWN ON ELEVATION)

INDEX

SHEET # | DESCRIPTION

- COVER SHEET
- SECTIONS
- BOM
- EXTRUSIONS

4 TOTAL SHEETS

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FOR SITE SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
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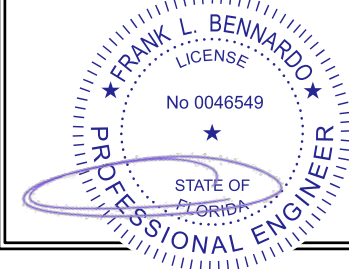
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SEPTEMBER 19, 2023



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(LARGE MISSILE IMPACT) - FBC EIGHTH ED. (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#21866.3)

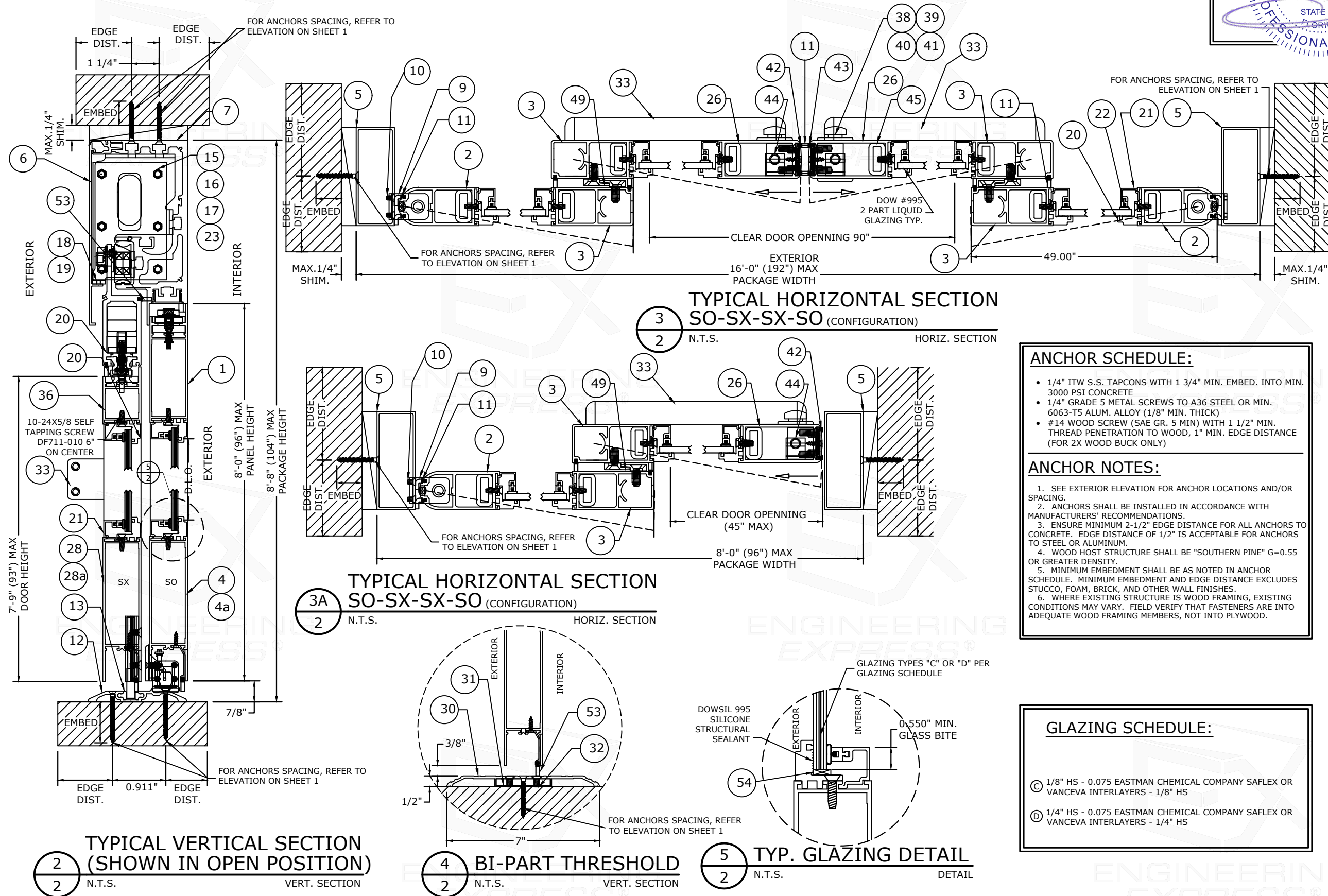
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2023 FBC	AMZ	RMS	09/19/23

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ANCHOR SCHEDULE:

- 1/4" ITW S.S. TAPCONS WITH 1 3/4" MIN. EMBED. INTO MIN. 3000 PSI CONCRETE
- 1/4" GRADE 5 METAL SCREWS TO A36 STEEL OR MIN. 6063-T5 ALUM. ALLOY (1/8" MIN. THICK)
- #14 WOOD SCREW (SAE GR. 5 MIN) WITH 1 1/2" MIN. THREAD PENETRATION TO WOOD, 1" MIN. EDGE DISTANCE (FOR 2X WOOD BUCK ONLY)

ANCHOR NOTES:

- SEE EXTERIOR ELEVATION FOR ANCHOR LOCATIONS AND/OR SPACING.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- ENSURE MINIMUM 2-1/2" EDGE DISTANCE FOR ALL ANCHORS TO CONCRETE. EDGE DISTANCE OF 1/2" IS ACCEPTABLE FOR ANCHORS TO STEEL OR ALUMINUM.
- WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
- MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.

GLAZING SCHEDULE:

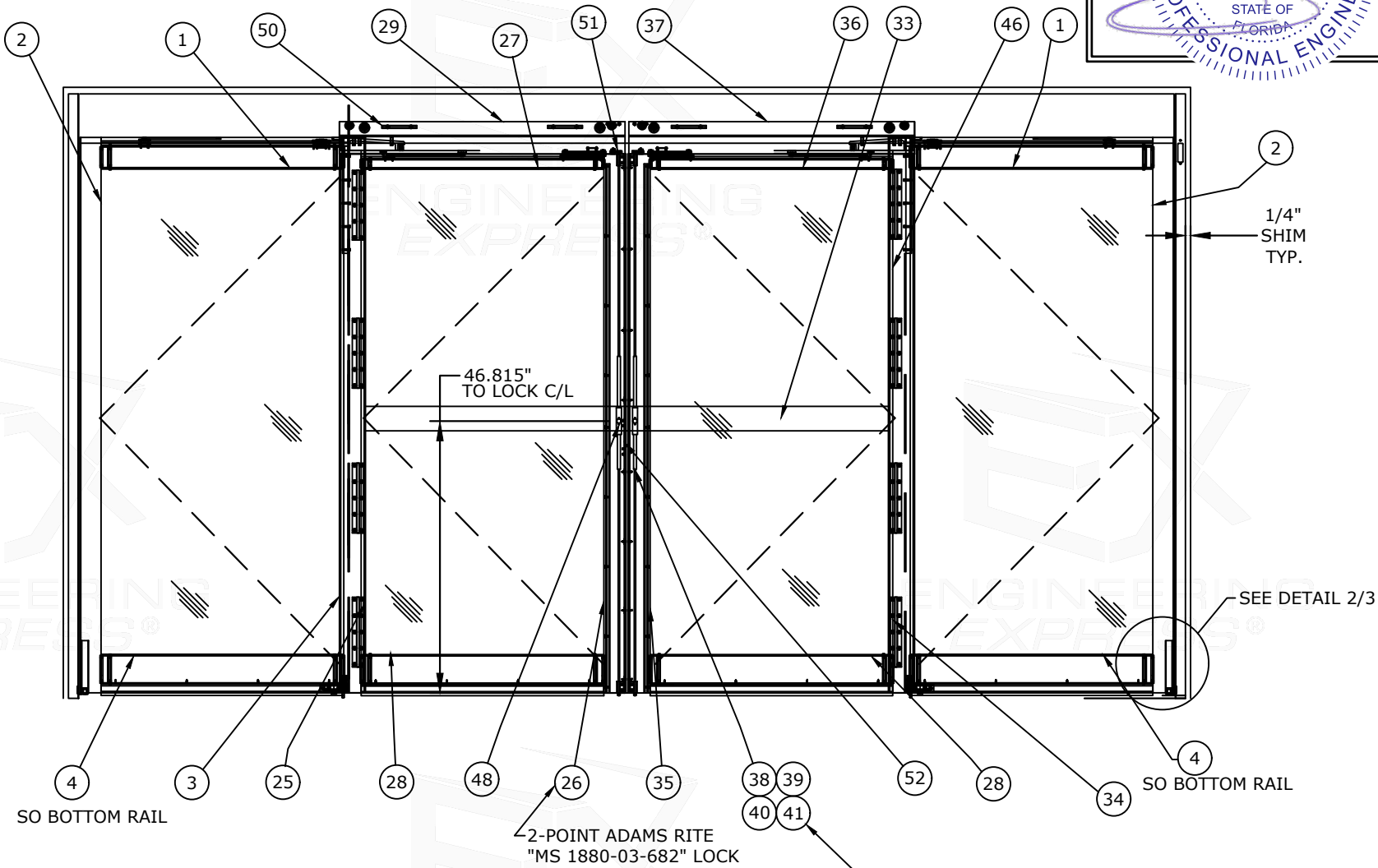
- 1/8" HS - 0.075 EASTMAN CHEMICAL COMPANY SAFLEX OR VANCEVA INTERLAYERS - 1/8" HS
- 1/4" HS - 0.075 EASTMAN CHEMICAL COMPANY SAFLEX OR VANCEVA INTERLAYERS - 1/4" HS

NOTE: THIS PRODUCT IS NOT
RATED FOR WATER INFILTRATION

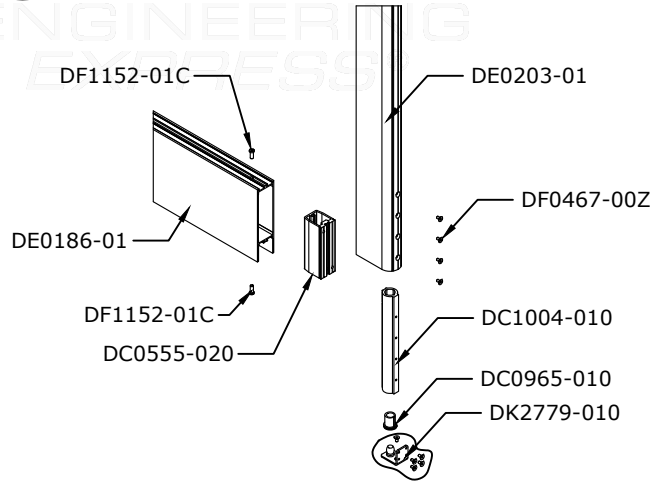
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BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	DE0199-03	SO TOP RAIL ASSEMBLY ESA300	2
2	DE0203-01	SO PIVOT ASSEMBLY ESA300	2
3	DE0202-01	SO INTERLOCK / PIVOT RAIL ASSEMBLY ESA300	2
4	DE0186-01	SO BOTTOM RAIL ASSEMBLY ESA300	2
4a	DE0187-02	9 1/4" ALTERNATE O BOTTOM RAIL PANEL	2
5	DE0200-01	JAMB DOUBLE POCKET	1
6	DE0158-03	HEADER FACEPLATE	1
7	DE0155-04	HEADER ASSEMBLY (REGULAR)	1
8	DE0159-02	HEADER ADAPTER	1
9	DS1979-010	SO BTM PIVOT ASSEMBLY	2
10	DF0628-00G	10-24X3/4 PHILPS FL CS.SS	8
11	DE2212-020	WEATHERSTRIP "13.4mm"	16
12	DE0195-010	BOTTOM TRACK	1
13	DE0234-010	TRACK CAP	1
14	DC2185-010	SIDE CARRIER	2
15	DC1498-010	HEADER BACK BLOCK	2
16	DF0728-01Z	1/4-20X1" HX-HD MS GR5 ZINC	10
17	DF0939-01Z	A6.4(M6) SPRING WASHER ZINC	10
18	DC0831-010	COVER HOLDING BAR	1
19	DF0999-01Z	10-24X3/4" PH FL HD UNC ZINC	4
20	DE1767-010	GLASS STOP EXT.	1
21	DE0210-010	GLASS STOP 1/4" SNAP	1
22	DE0148-020	GLAZING BEAD CO-EXTRUSION	1
23	DF0385-010	RIVET NUT 1/4-20 SF UNC IFC STEEL	10
26	DE0201-02	VERTICAL LOCK RAIL	1
27	DS1727-010	SX TOP RAIL ASSEMBLY ESA300	1
28	DE0188-01	SX BOTTOM RAIL ASSEMBLY ESA300	2
28a	DE0187-02	9 1/4" ALTERNATE SX BOTTOM RAIL ASSEMBLY	2
29	DS1724-010	CARRIER ASSEMBLY	1
30	DE0246-01A	THRESHOLD BI-PART (MACHINED)	1
31	DC0837-010	BOTTOM PLATE	1
32	DF0848-01Z	1/4-20X1/2 FL HD SOC SC ZINC	4
33	DC0982-01X	ADAMS RITE 860 PANIC DEVICE (OPTIONAL)	2
34	DS1831-010	SX PIVOT ASSEMBLY ESA300	1
36	DE0162-020	SX TOP RAIL ASSEMBLY ESA300	1
37	DS1833-010	CARRIER ASSEMBLY	1
38	DC0572-00A	LOCK CYLINDER RING CLEAR/DC0572-00B	1
39	DC0571-00A	KEY LOCK CYLINDER -CLEAR/ DC0571-00B	1
40	DC0621-00A	THUMB KEY-CLEAR/ DC0621-00B-DARK BRONZE	1
41	DC2057-010	3 POINTS CONVERTER ADAMS RITE P/N "MS 4016-20-02"	1
42	DC1766-010	ASTRAGAL- L.H	1
43	DC1701-010	ASTRAGAL- R.H	1
44	DC1497-010	LATCH BLOCK	4
45	DC1700-010	PUSH BAR	2
46	DS1827-010	SO-INTERLOCK RAIL ASSEMBLY	1
48	DC2055-010	2 WAY BOLT ADAMS RITE P/N "MS 1880-03-682"	1
49	DC0836-010	BREAKOUT INTERLOCK CLIP	4
50	DC0838-010	ANTI-DERAIL BLOCK	4
51	DC1978-01Z	BREAKOUT STOP	2
52	DC2492-01Z	CATCH PLATE	1
53	DE0152-120	BRUSH	1
54	-	83 +/- 5 SHORE A DUROMETER SETTING BLOCK CENTERED AT 1/4 POINTS	



1
3
EXTERIOR ELEVATION
N.T.S. ELEV.



2
3
CORNER DETAIL
N.T.S. ELEV.

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PE# 0046549 CA# 9885

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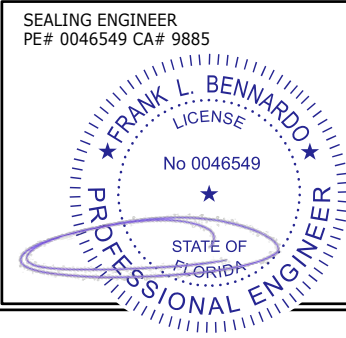
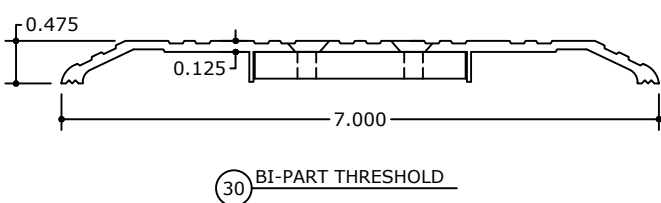
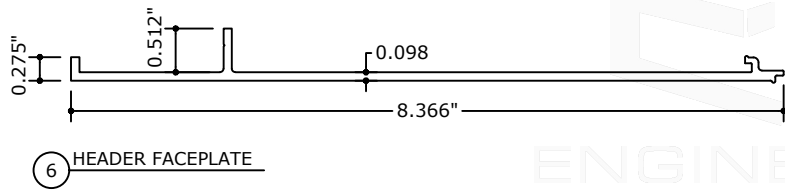
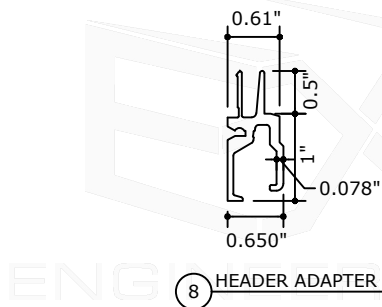
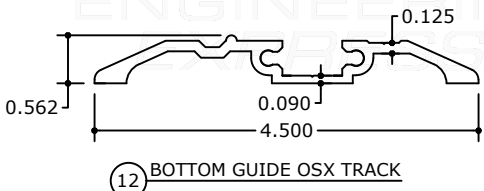
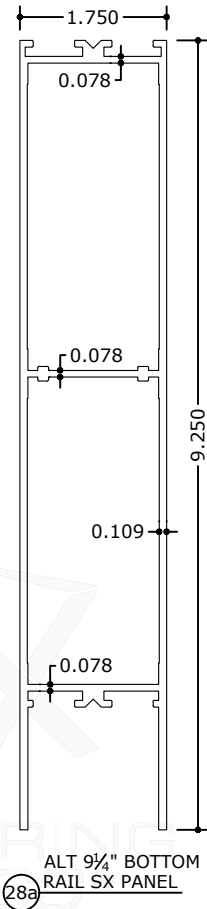
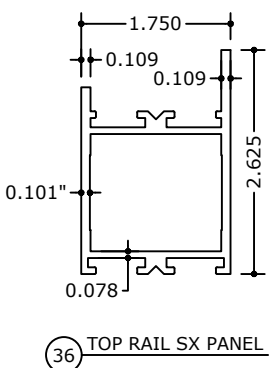
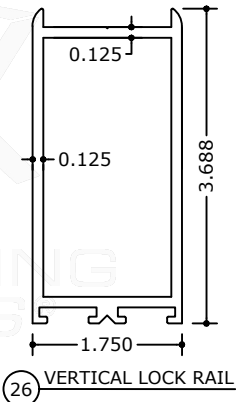
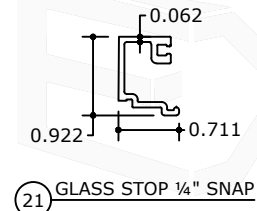
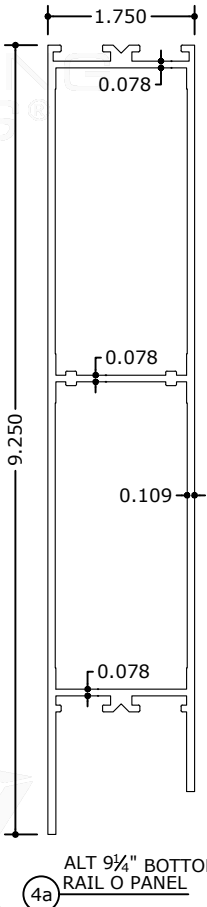
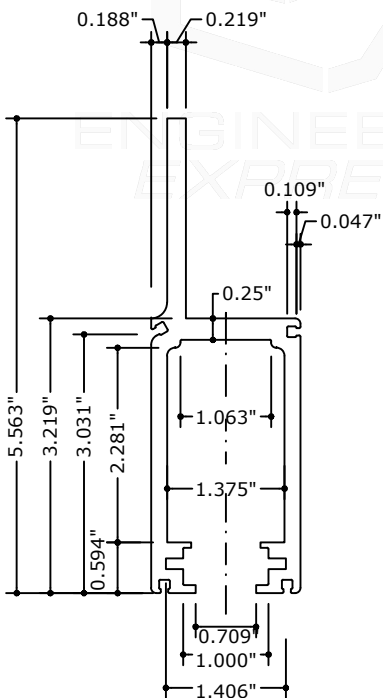
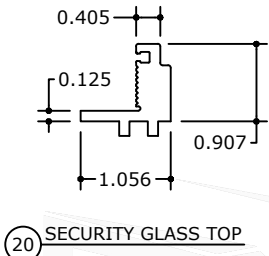
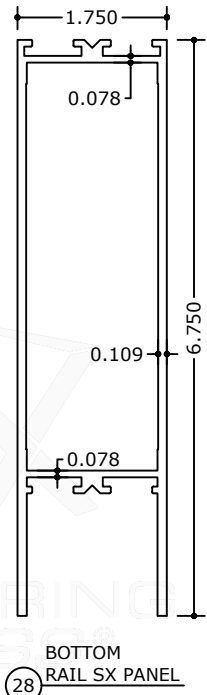
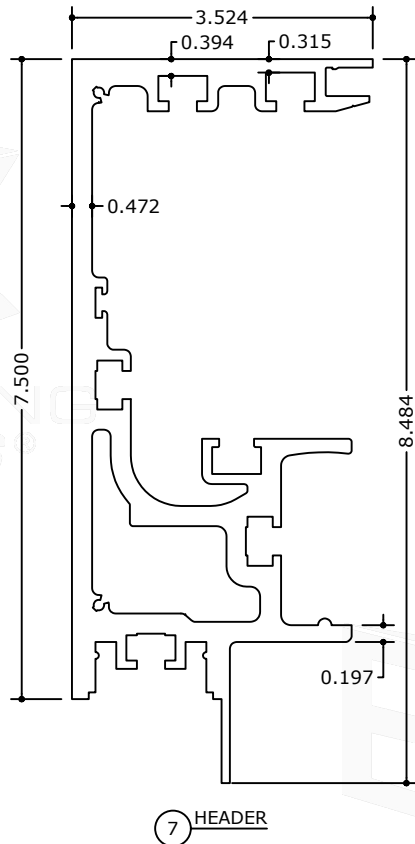
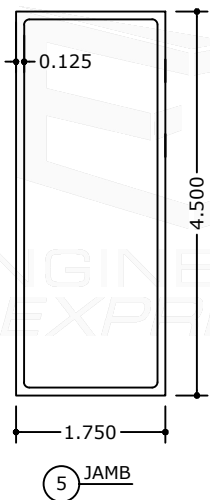
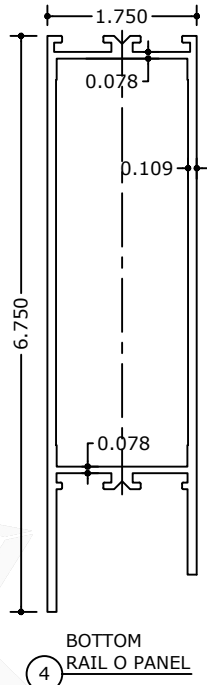
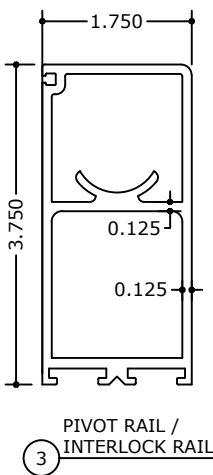
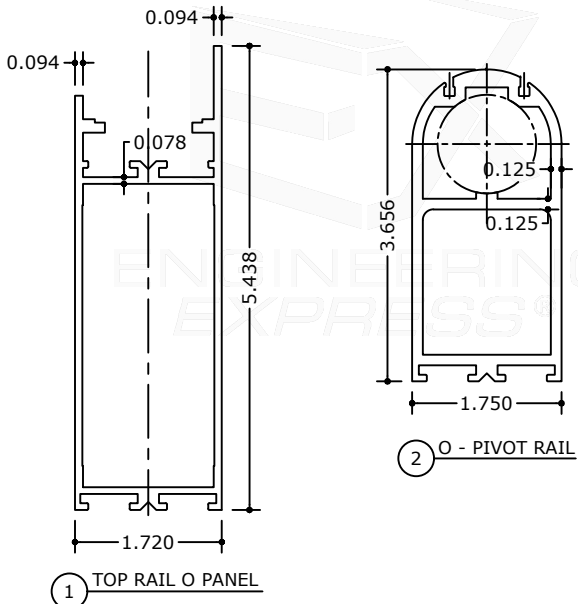
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