

THESE DOORS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

**Coastline Inswing French Door Narrow Stile IZ4**

APPROVAL APPLIES TO SINGLE(X) AND DOUBLE(XX) LEAF INSWING DOORS SEE SHEET 2 FOR DESIGN LOAD CAPACITIES.

DOORS APPROVED FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

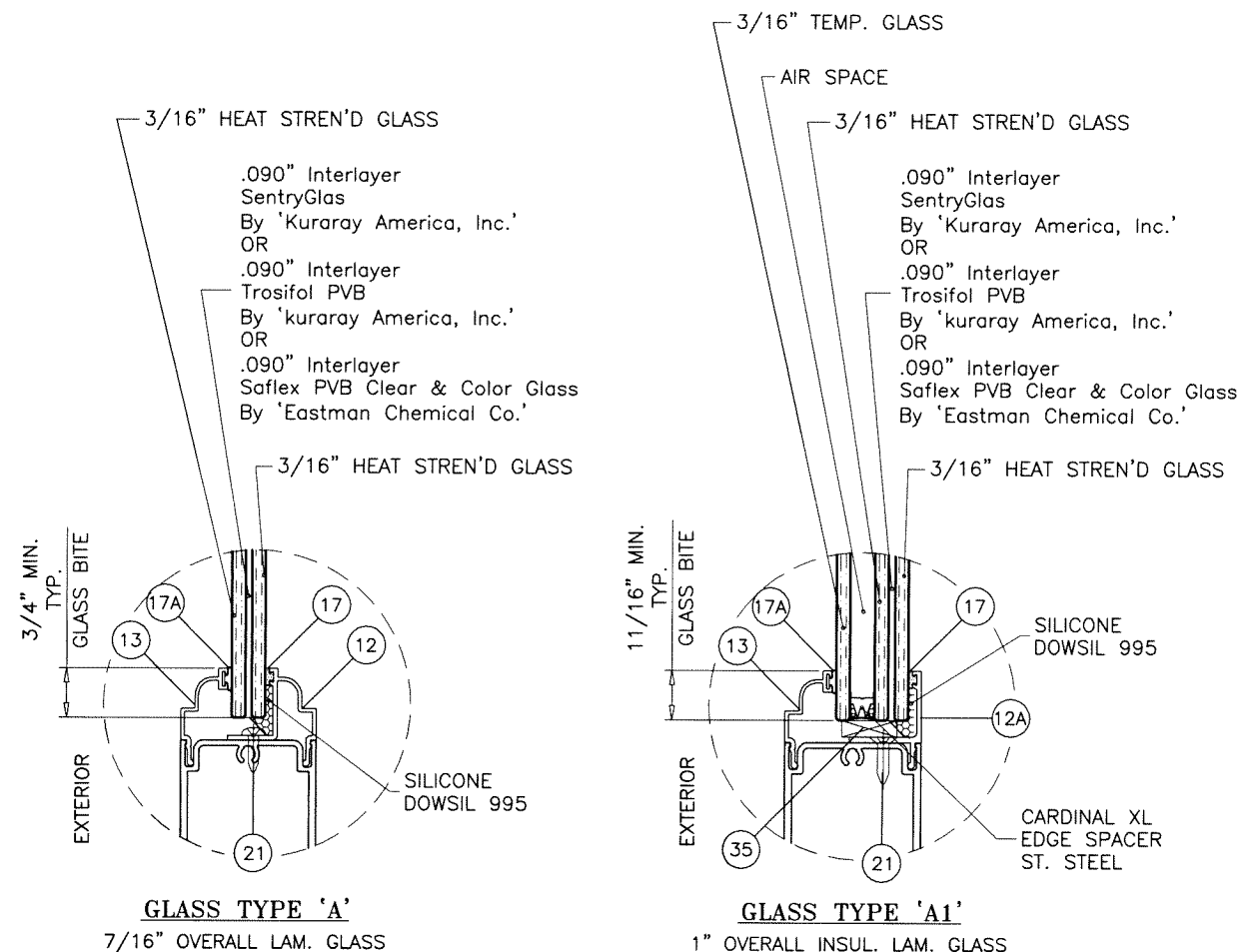
MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. LABELING TO COMPLY WITH SECTION 1709.9.2.

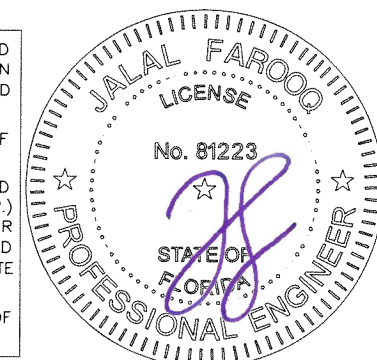


**GLAZING OPTIONS**

Sealed: 7/26/2023

FL #33689

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.  
 B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.  
 C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.  
 D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



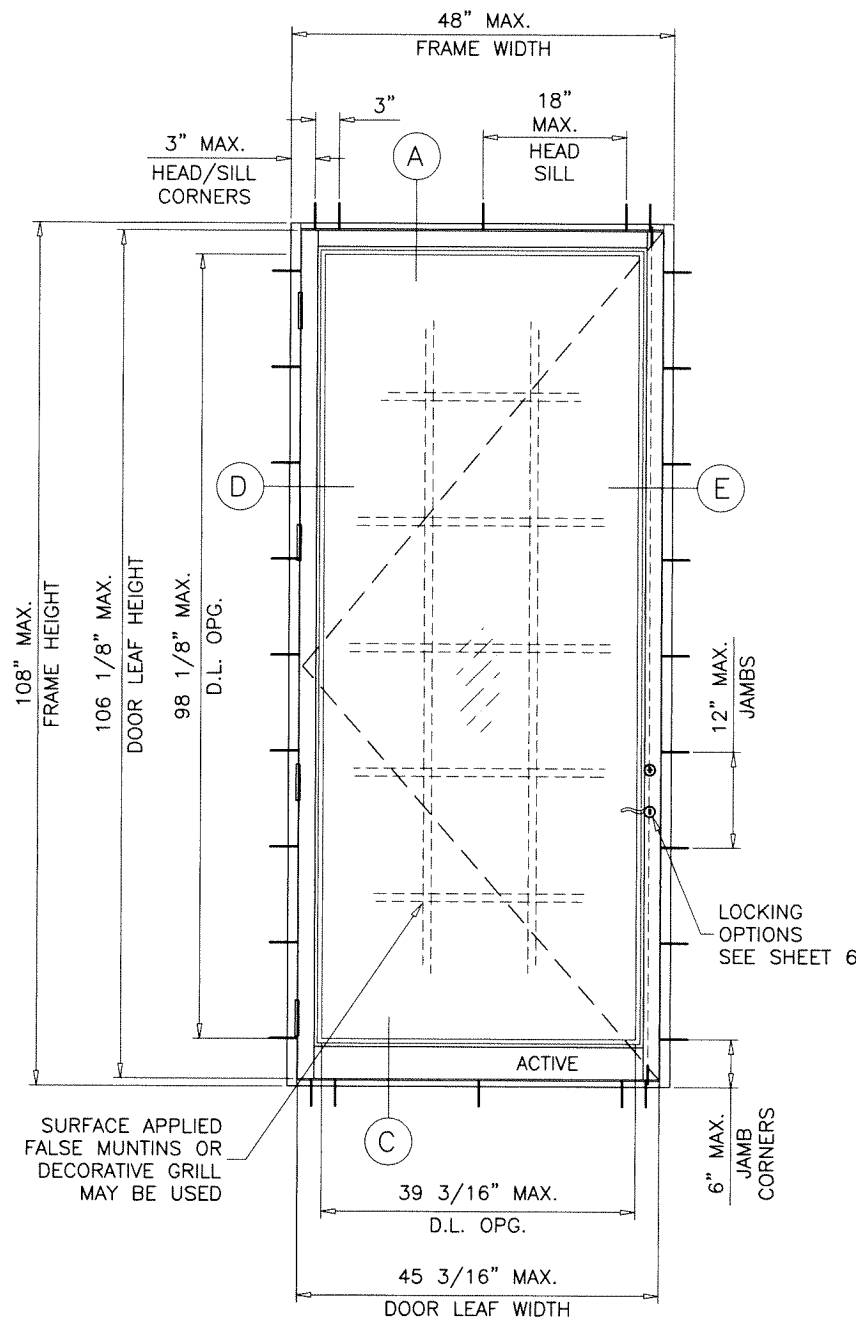
**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W17-51SIW

Coastline Inswing French Door Narrow Stile IZ4  
**MARVIN**  
 PO Box 100, 401 State Ave. N.  
 Warroad, MN. 56763  
 Tel. (218) 386-1430 Ext. 2143

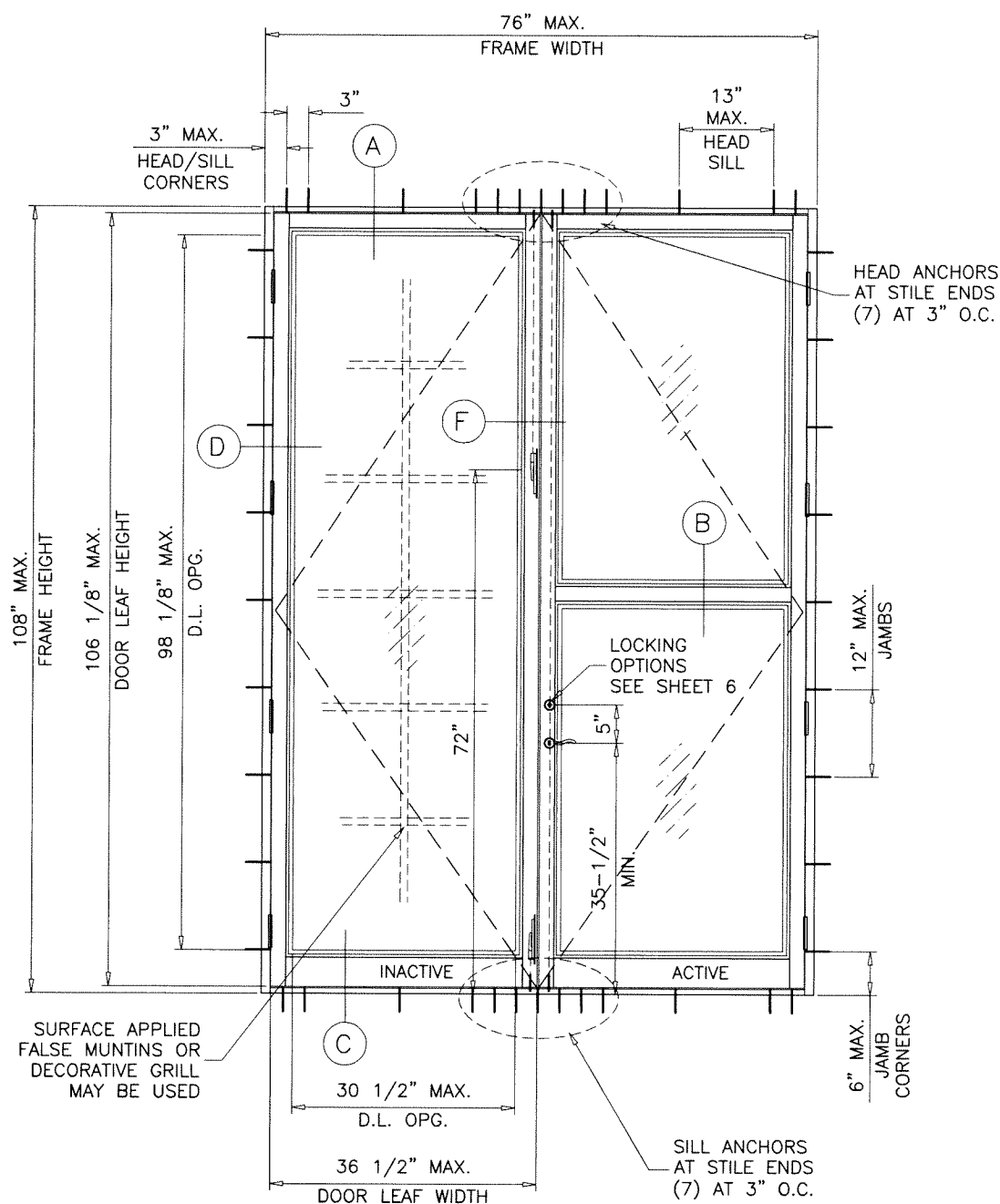
no	date	description	by
A	11.27.17	UPDATED TO 2017 FBC	
B	12.18.18	COMPANY NAME REV.	
C	08.26.20	UPDATED TO 2020 FBC	
D	08.11.22	PVB INTERLAYER OPTION ADDED	
E	07.25.23	UPDATED TO 2023 FBC	

date: 05-19-17  
 scale: 1/2"=1'-0"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**W17-51**  
 sheet 1 of 7



**TYPICAL ELEVATION**  
( X )



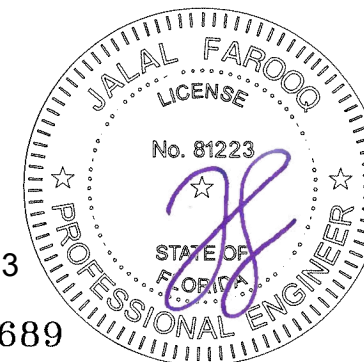
**TYPICAL ELEVATION**  
( XX )

SINGLE DOORS LOAD CAPACITY - PSF					
FRAME		LEAF		EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT		
48"	108"	45-3/16"	106-1/8"	50.0	60.0

DOUBLE DOORS LOAD CAPACITY - PSF					
FRAME		LEAF		EXT.(+)	INT.(-)
WIDTH	HEIGHT	WIDTH	HEIGHT		
76"	108"	36-1/2"	106-1/8"	50.0	60.0

NOTE:  
GLASS CAPACITIES ON THIS SHEET ARE  
BASED ON ASTM E1300-09 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05-DEC-219

GLASS D.L.O. FORMULAE:  
D.L.O. WIDTH = FRAME WIDTH - 8.813" (X DOORS)  
= (FRAME WIDTH - 15.0")/2 (XX DOORS)  
D.L.O. HEIGHT = FRAME HEIGHT - 9.875"  
LEAF HEIGHT = FRAME HEIGHT - 1.875"



Sealed: 7/26/2023

FL #33689

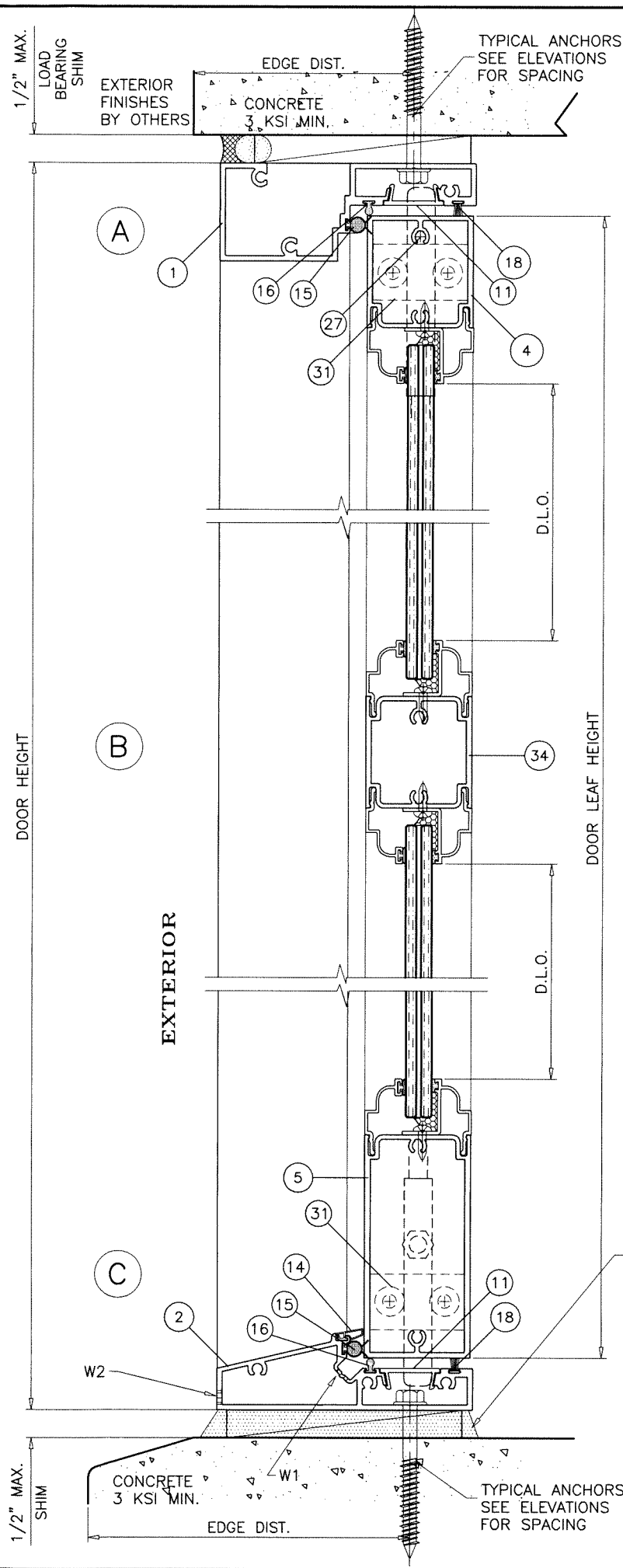
**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W17-51SW

Coastline Inswing French Door Narrow Stile IZ4  
**MARVIN**  
PO Box 100, 401 State Ave. N.  
Warroad, MN. 56763  
Tel. (218) 386-1430 Ext. 2143

revisions:	no	date	by	description

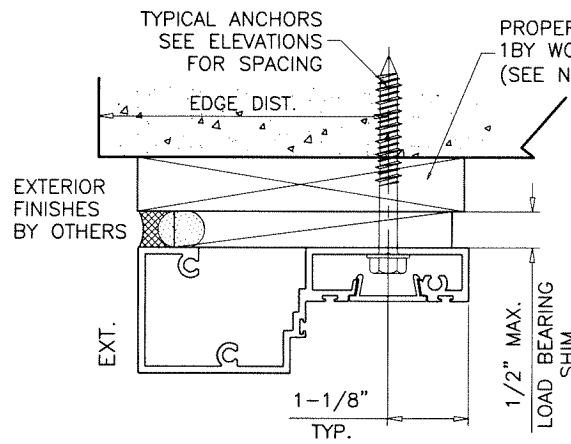
date: 05-19-17  
scale: 1/2"=1'-0"  
dr. by: TARIQ  
chk. by:

drawing no.  
**W17-51**  
sheet 2 of 7

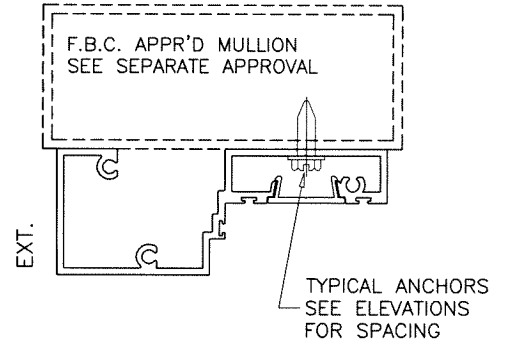
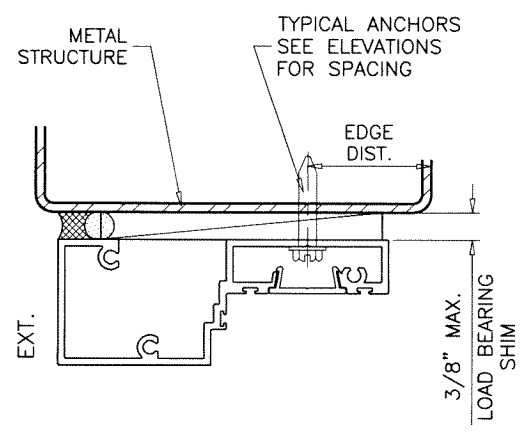
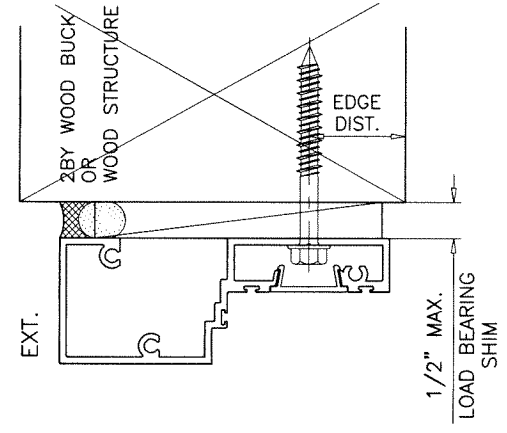


POURED & HARDENED HIGH STRENGTH GROUT  $f'_c = 5000$  PSI MIN. NOT BY 'MARVIN' MUST TRANSFER SHEAR LOADS TO STRUCTURE

LOAD BEARING (SOLID SHIMS OPTIONAL TO GROUT)



PROPERLY SECURED 1BY WOOD BUCK (SEE NOTE SHEET 1)



**TYPICAL ANCHORS:** SEE ELEV. FOR SPACING

ANCHORS TYPE	SUBSTRATE	AT HEAD		AT SILL		AT JAMBS	
		MIN. LENGTH	MIN. EDGE DIST.	MIN. LENGTH	MIN. EDGE DIST.	MIN. LENGTH	MIN. EDGE DIST.
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)	WOOD	2-3/4"	1"	N.A.	N.A.	3-3/4"	1"
	MASONRY	N.A.	N.A.	N.A.	N.A.	4"	2-1/2"
	CONCRETE	3-1/4"	1-1/2"	2-3/4"	1-1/2"	4"	1-1/2"
1/4" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)	METAL	3/4"	3/4"	N.A.	N.A.	3/4"	3/4"

WOOD = 1BY OR 2BY WOOD BUCKS OR WOOD STRUCTURE S.G. = 0.55 MIN.  
 MASONRY = C-90 HOLLOW/FILLED BLOCK  $f'_m = 2000$  PSI MIN.  
 CONCRETE =  $f'_c = 3000$  PSI MIN.  
 METAL = 1/8" MIN. THK. STEEL  $F_y = 36$  KSI MIN.  
 F.B.C. APPROVED MULLION 1/8" MIN. THK.

PROPERLY SECURED 1BY OR 2BY WOOD BUCKS AND METAL STRUCTURES NOT BY 'MARVIN' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO BUILDING STRUCTURE.

ANCHORS MAY BE HEX OR FLAT HEAD.

**WEEPHOLES:**

W1 = 1/4" X 1" NOTCH AT 6" FROM EACH END (2) AT CENTER OF XX DOORS ONLY AT 14" APART  
 W2 = 1/4" X 1" NOTCH AT 1/2" FROM EACH END

Sealed: 7/26/2023

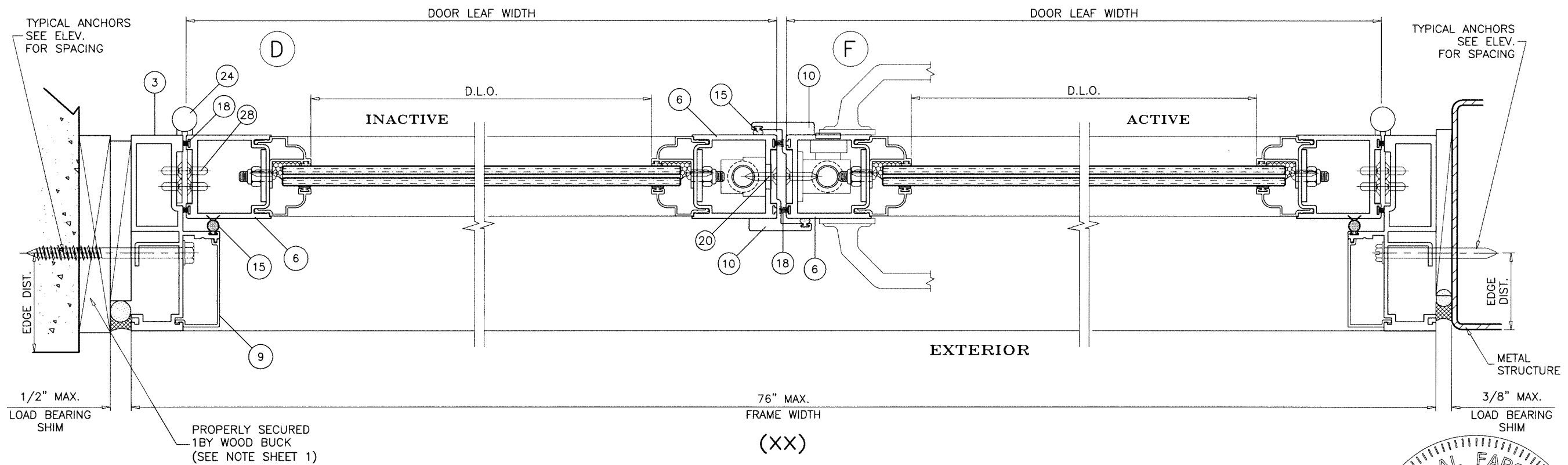
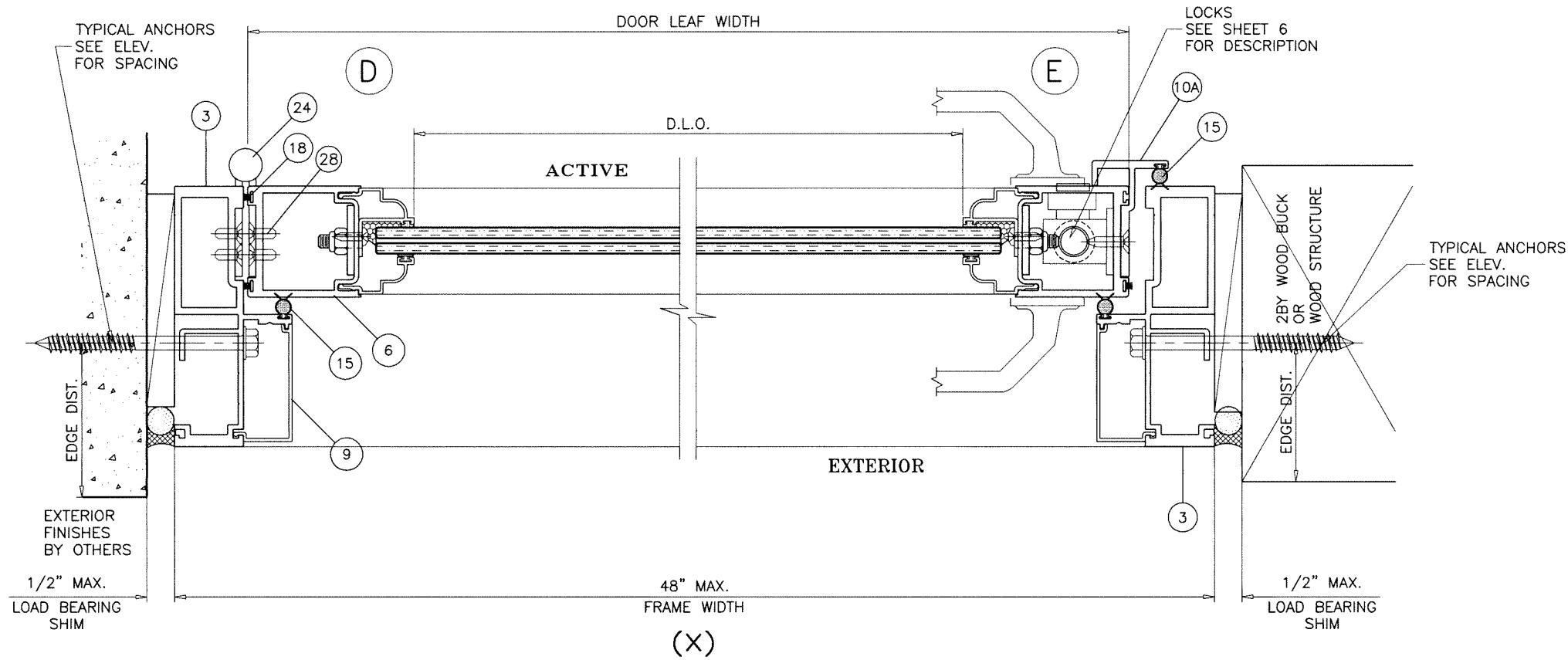
FL #33689



**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 (C.A.N. 3538)  
 COMP-ANL\W17-51SW

Coastline Inswing French Door Narrow Stile IZ4  
**MARVIN**  
 PO Box 100, 401 State Ave. N.  
 Warroad, MN. 56763  
 Tel. (218) 386-1430 Ext. 2143

revisions:	no.	date	by	description
date:	05-19-17	scale:	3/8" = 1"	
dr. by:	TARIQ	chk. by:		
drawing no.	W17-51			
sheet	3 of 7			



Sealed: 7/26/2023

FL #33689

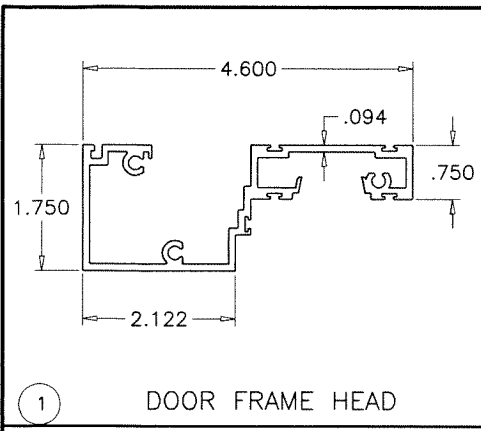
**afc**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL \W17-51SW

Coastline Inswing French Door Narrow Stile IZ4  
**MARVIN**  
 PO Box 100, 401 State Ave. N.  
 Warroad, MN. 56763  
 Tel. (218) 386-1430 Ext. 2143

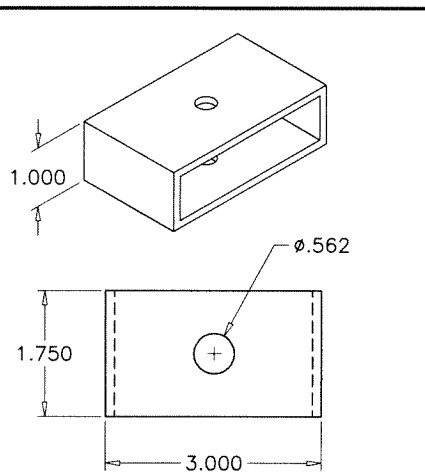
revisions:	no	date	by	description

date: 05-19-17  
 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:

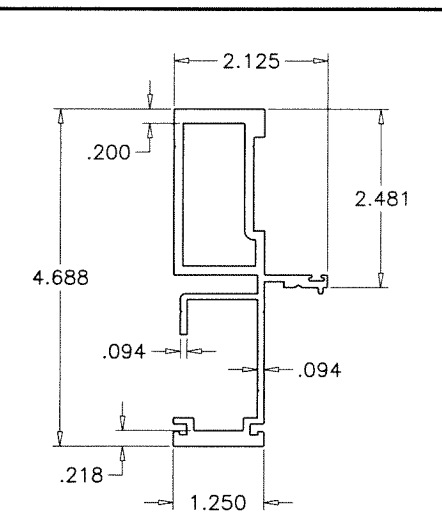
drawing no.  
**W17-51**  
 sheet 4 of 7



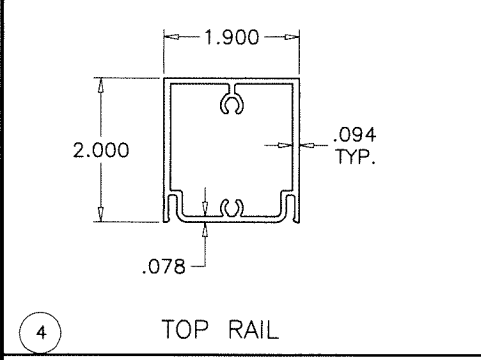
1 DOOR FRAME HEAD



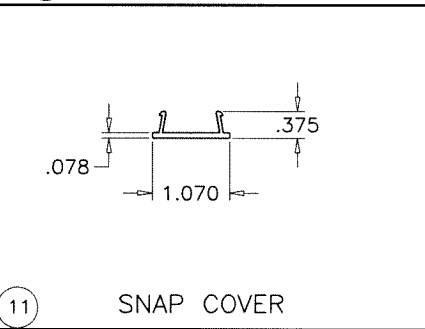
31 FLUSH BOLT BLOCK



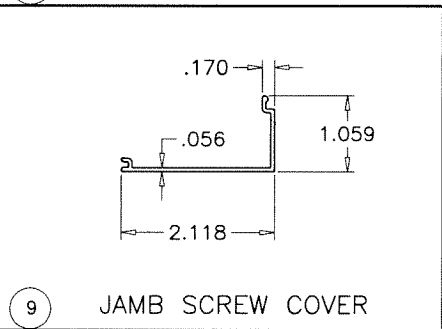
3 FRAME JAMB



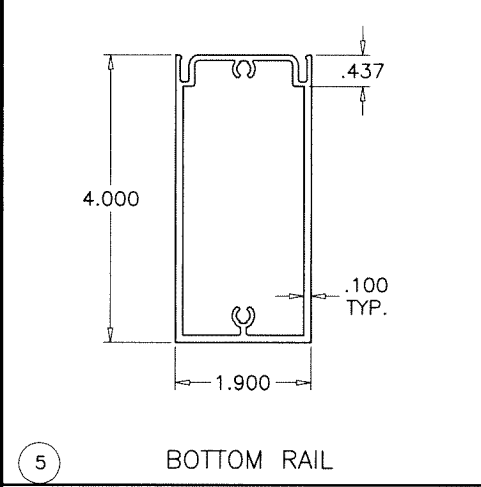
4 TOP RAIL



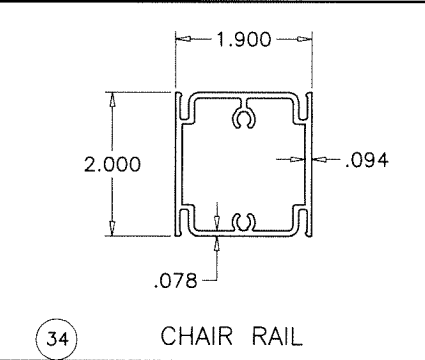
11 SNAP COVER



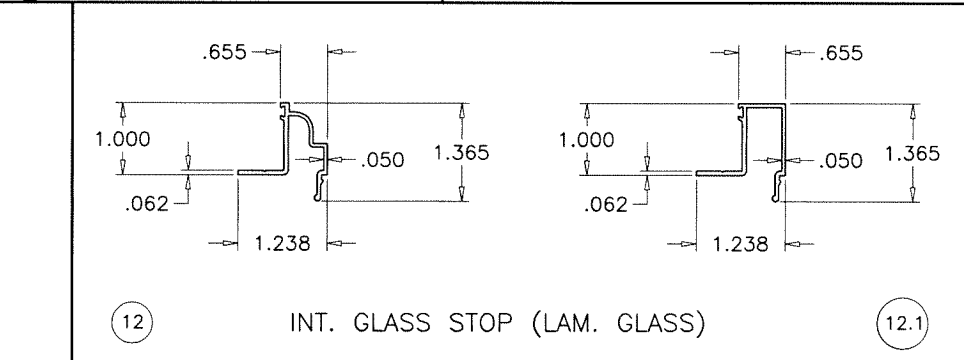
9 JAMB SCREW COVER



5 BOTTOM RAIL

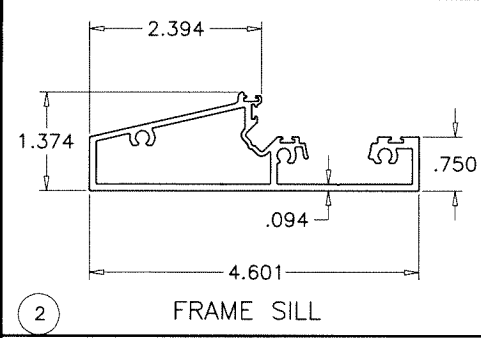


34 CHAIR RAIL

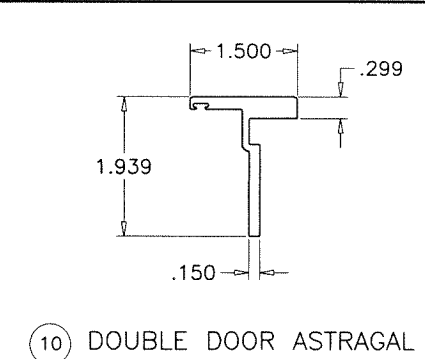


12 INT. GLASS STOP (LAM. GLASS)

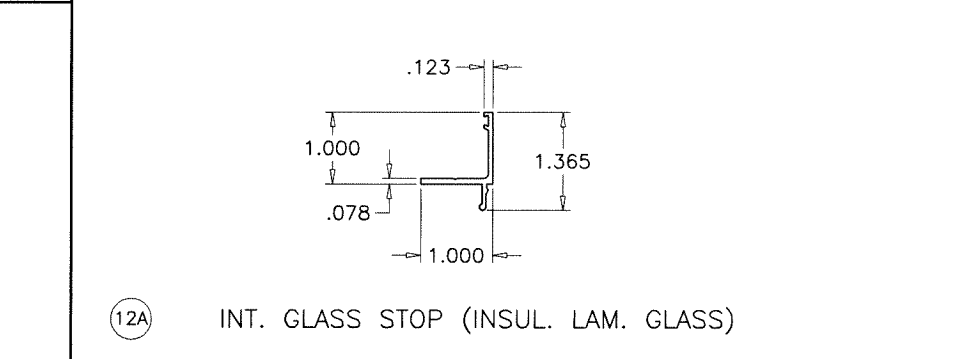
12.1



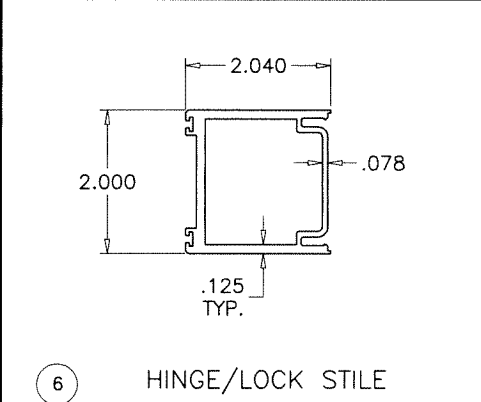
2 FRAME SILL



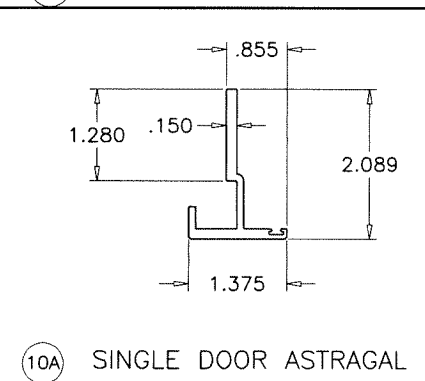
10 DOUBLE DOOR ASTRAGAL



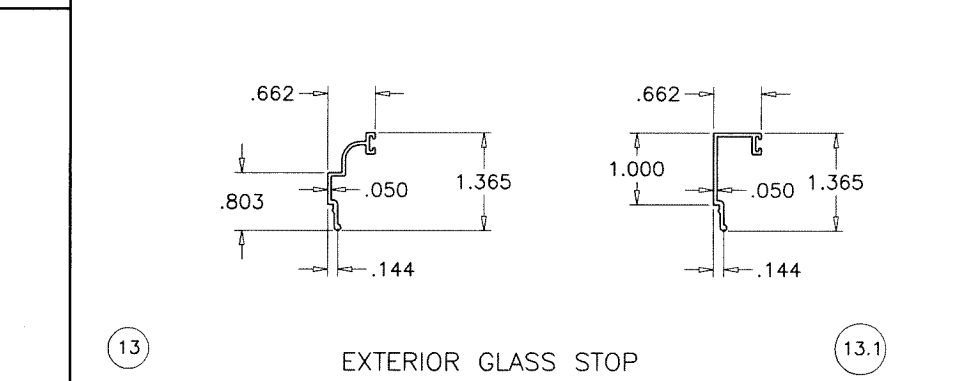
12A INT. GLASS STOP (INSUL. LAM. GLASS)



6 HINGE/LOCK STILE



10A SINGLE DOOR ASTRAGAL



13 EXTERIOR GLASS STOP

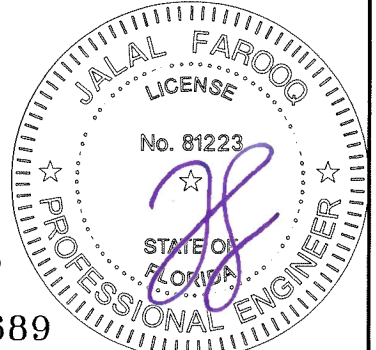
13.1

**afc**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W17-51SW

Coastline Inswing French Door Narrow Stile IZ4  
**MARVIN**  
 PO Box 100, 401 State Ave. N.  
 Warroad, MN. 56763  
 Tel. (218) 386-1430 Ext. 2143

no	date	by	description

date: 05-19-17  
 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:  
 drawing no.  
**W17-51**  
 sheet 5 of 7



Sealed: 7/26/2023

FL #33689

**LOCK OPTIONS 1 & 2**

**ACTIVE LEAF:**

**OPTION #1:**

3 POINT LOCK ASSEMBLY (SERIES 2222) BY 'REGENT' WITH HOOK BOLT AT 36" FROM BOTTOM FLUSH BOLTS CONNECTED TO LOCK KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR AND ENGAGING FRAME AT HEAD AND SILL

**OPTION #2:**

LOCK ASSEMBLY (DL01-6014) BY 'INTERLOCK USA' WITH THROW BOLT AT 35-1/2" FROM BOTTOM FLUSH BOLTS CONNECTED TO LOCK KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR AND ENGAGING FRAME AT HEAD AND SILL

**INACTIVE LEAF**

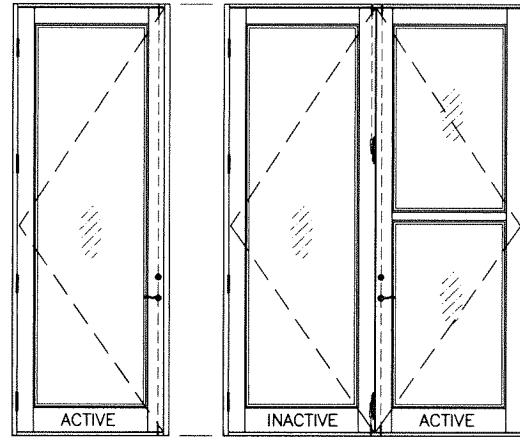
CONCEALED FLUSH BOLTS (FB-1202-914)

BY 'SULLIVAN & ASSOC.'

MANUALLY OPERATED LEVERS MOUNTED ON

INSIDE FACE OF LEAF STILE LOCATED AT

13-1/2" FROM BOTTOM AND 34" FROM TOP



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	SIW505	1	DOOR FRAME HEAD	6063-T6	SIW SELECTED EXTRUDER
2	SIW545	1	INSWING FRAME SILL	6063-T6	SIW SELECTED EXTRUDER
3	SIW506	2/DOOR	FRAME JAMB	6063-T6	SIW SELECTED EXTRUDER
4	SIW549	1/ LEAF	DOOR TOP RAIL	6063-T6	SIW SELECTED EXTRUDER
5	SIW502	1/ LEAF	DOOR BOTTOM RAIL	6063-T6	SIW SELECTED EXTRUDER
6	SIW507	2/ LEAF	HINGE STILE/LOCK STILE	6063-T6	SIW SELECTED EXTRUDER
9	SIW511	AS REQD.	JAMB SCREW COVER	6063-T6	SIW SELECTED EXTRUDER
10	SIW509	AS REQD.	DOUBLE DOOR ASTRAGAL	6063-T6	SIW SELECTED EXTRUDER
10A	SIW535	AS REQD.	SINGLE DOOR ASTRAGAL	6063-T6	SIW SELECTED EXTRUDER
11	SIW510	AS REQD.	SCREW COVER	6063-T6	SIW SELECTED EXTRUDER
12	SIW512	AS REQD.	INTERIOR GLASS STOP (LAM. GLASS)	6063-T6	SIW SELECTED EXTRUDER
12.1	SIW540	AS REQD.	INTERIOR GLASS STOP SQUARE (LAM. GLASS)	6063-T6	SIW SELECTED EXTRUDER
12A	SIW520	AS REQD.	INTERIOR GLASS STOP (INSUL. LAM. GLASS)	6063-T5	SIW SELECTED EXTRUDER
13	SIW513	AS REQD.	EXTERIOR GLASS STOP	6063-T6	SIW SELECTED EXTRUDER
13.1	SIW541	AS REQD.	EXTERIOR GLASS STOP SQUARE	6063-T6	SIW SELECTED EXTRUDER
14	SIW548	1	THRESHOLD TRIM	EDPM	DUROMETER 75±5 SHORE A
15	9016E	-	BULB W'STRIPPING	VINYL	CENTRAL PLSTICS
16	U4513	-	Q-LON W'STRIPPING	VINYL	SCHLEGEL
17	E20218	AS REQD.	INTERIOR GLAZING GASKET (DUROMETER 70±5)	TPE	ULTRAFAB
17A	5530	AS REQD.	EXTERIOR GLAZING GASKET (DUROMETER 70±5)	SANTOPRENE	CENTRAL PLASTICS
18	W23201NW0020	AS RQD.	FINSEAL PILE W'STRIPPING	-	ULTRAFAB
20	#8 X 1/2"	-	ASTRAGAL SCREWS PH SMS	-	AT 4" FROM ENDS & 24" O.C.
21	#8 X 1/2"	AS REQD.	GLASS STOP SCREWS SELF DRILLING	-	AT 8" FROM ENDS & 15" O.C. MAX.
24	SD44HD	4/LEAF	BUTT HINGES	-	STAINLESS STEEL
27	#12 X 2"	1/ CORNER	FRAME AND LEAF ASSEMBLY SCREWS	ST. STEEL	HWH SMS
28	#12 X 1/2"	AS REQD.	HINGE ASSEMBLY SCREWS	ST. STEEL	FH MS TYPE F SS
31	SIW 521	-	FLUSH BOLT BLOCK	6063-T6	-
32	#2	-	FLUSH BOLTS	-	SULLIVAN & ASSOC.
34	SIW539	-	2" CHAIR RAIL	6063-T6	-
35	-	AS REQD.	SETTING BLOCKS AT 1/4 POINTS	EPDM	DUROMETER 85±5 SHORE A

**HINGES:**

4" X 4" ST. STEEL BUTT HINGES DELTANA (DSB4NB OR SD44HD)

AT 13" FROM TOP AND BOTTOM ENDS AND 26-5/8" O.C. MAX.

HINGE ATTACHED TO DOOR FRAME AND DOOR STILE

USING (4) #12 X 1" FH MS

3 HINGES PER LEAF UPTO 6/8 HIGH DOORS

4 HINGES PER LEAF DOORS HIGHER THAN 6/8

**SEALANTS:**

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SMALL JOINT SEALER.

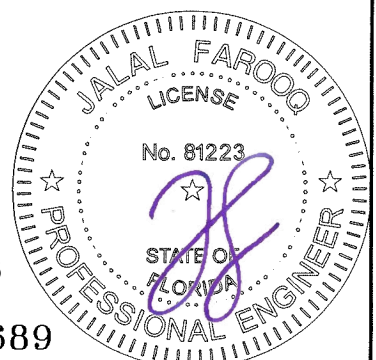
**af c**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL W17-51SIW

Coastline Inswing French Door Narrow Stile IZ4  
**MARVIN**  
 PO Box 100, 401 State Ave. N.  
 Warroad, MN. 56763  
 Tel. (218) 386-1430 Ext. 2143

revisions:	no	date	by	description

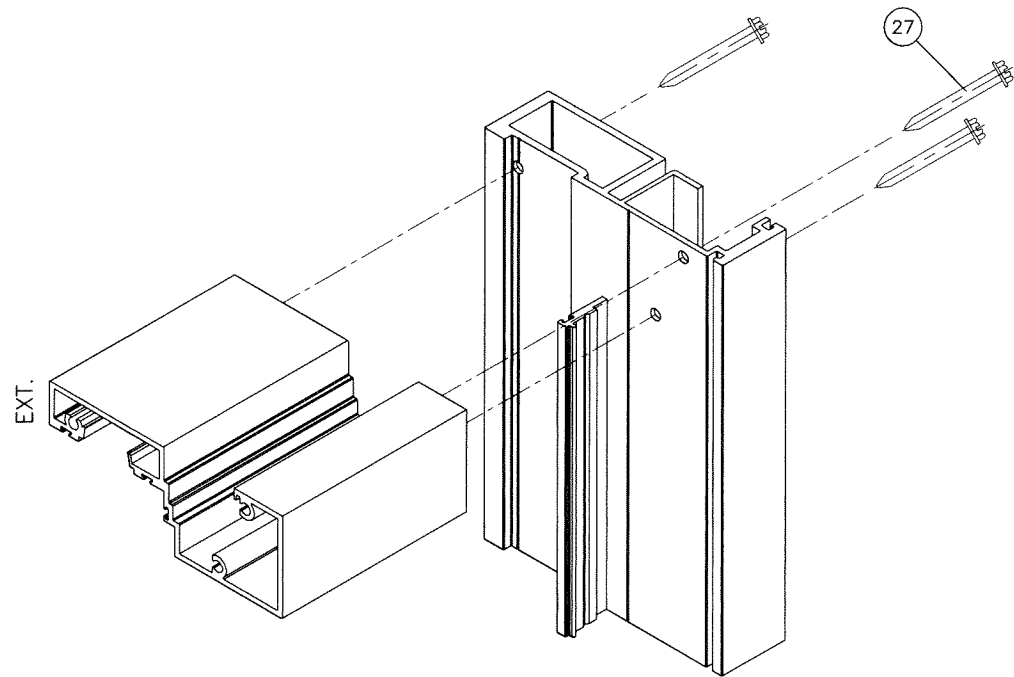
date:	05-19-17
scale:	3/8" = 1"
dr. by:	TARIQ
chk. by:	

drawing no.  
**W17-51**  
 sheet 6 of 7

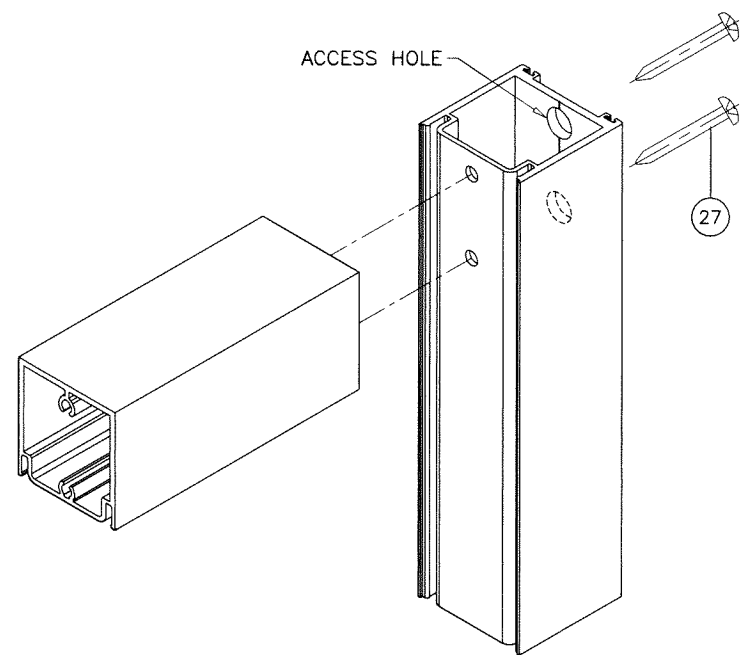


Sealed: 7/26/2023

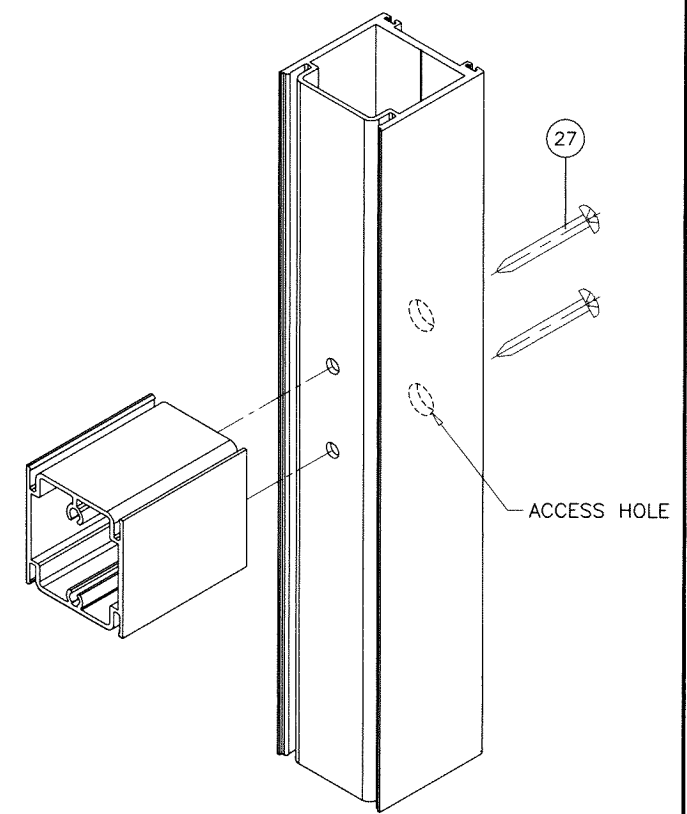
FL #33689



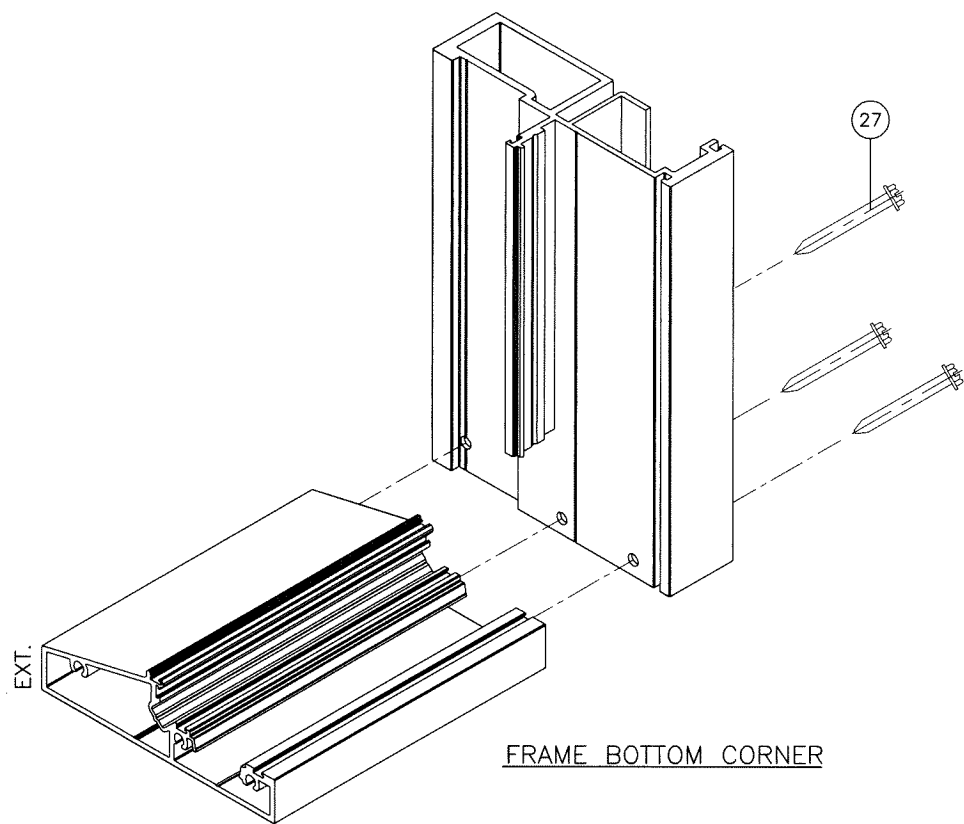
FRAME TOP CORNER



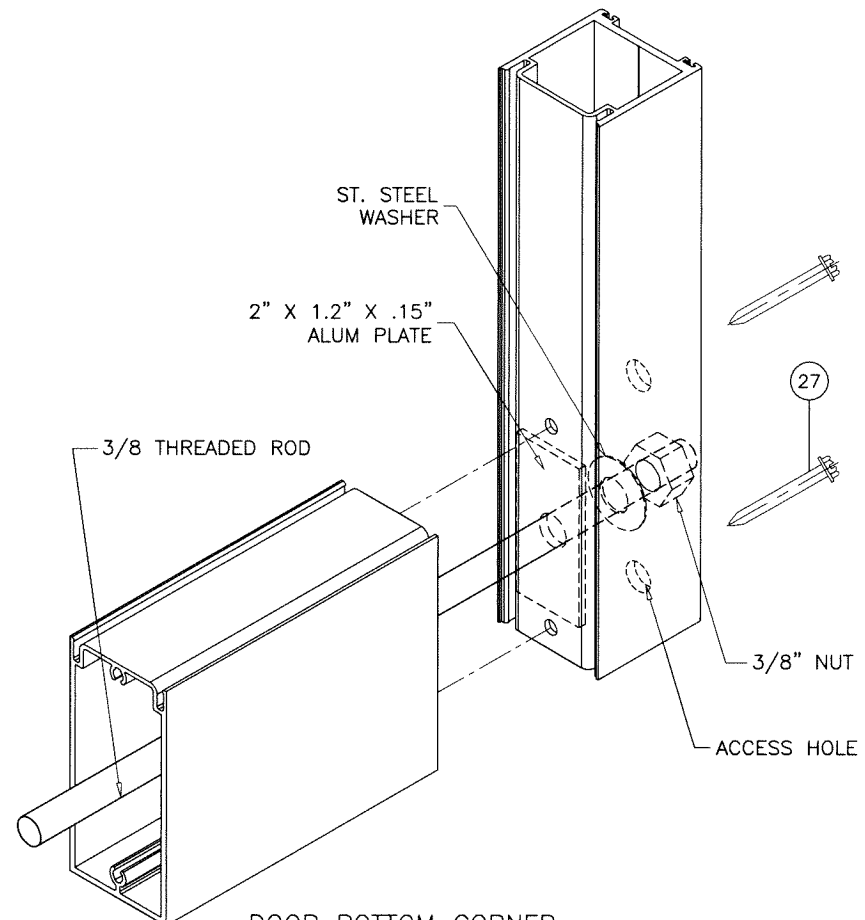
LEAF TOP CORNER



CHAIR RAIL CORNER



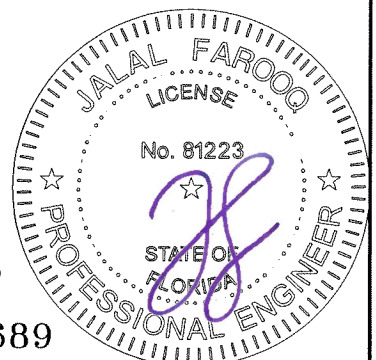
FRAME BOTTOM CORNER



DOOR BOTTOM CORNER

Sealed: 7/26/2023

FL #33689



**afc**  
**AL-FAROOQ CORPORATION**  
 ENGINEERS & PRODUCT DEVELOPMENT  
 9360 SUNSET DRIVE, SUITE 220  
 MIAMI, FLORIDA 33173 (C.A.N. 3538)  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\W17-51SW

Coastline Inswing French Door Narrow Stile IZ4  
**MARVIN**  
 PO Box 100, 401 State Ave. N.  
 Warroad, MN. 56763  
 Tel. (218) 386-1430 Ext. 2143

revisions:	no	date	by	description

date: 05-19-17  
 scale: 3/8" = 1"  
 dr. by: TARIQ  
 chk. by:

drawing no.  
**W17-51**  
 sheet 7 of 7