

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

SERIES EC400 (L.M.I.)  
ALUMINUM SLIDING GLASS DOOR

DESIGN LOAD RATING FOR DOORS TO BE AS PER CHARTS SHOWN  
ON SHEET 1, AND APPROVED CONFIGURATIONS ON SHEETS 6 THRU 8.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE  
REQUIREMENTS OF THE 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 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.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED  
ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE  
USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** DETERMINE DOOR CAPACITY FROM CHART ON SHEET 1.1  
FOR THE GLASS TYPES USED.
- STEP 3** USING ANCHOR CHARTS ON SHEET 1.1 SELECT ANCHOR  
QUANTITY WITH DESIGN RATING MORE THAN DESIGN LOAD  
SPECIFIED IN STEP 1 ABOVE.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3  
SHALL APPLY TO ENTIRE SYSTEM.

Sealed: 2/28/2024

FL #43777



- 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.

SERIES EC400 ALUM SLIDING GLASS DOOR (L.M.I.)  
**Eurocraft Industries Inc.**  
7905 N.W. 77th Ave.  
Medley, FL. 33166  
Phone: (305) 713-1871 Fax: (305) 713-1872

**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\23-40F-EII

revisions:		no	date	by	description
		A	01.08.24		GENERAL REVISION

date: 09-01-23  
scale: -  
dr. by: TARIQ  
chk. by:

drawing no.  
**23-40F**

sheet 1 of 18

DOOR DESIGN LOAD CAPACITY – PSF					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	GLASS TYPES 'A' & 'Ai'		GLASS TYPES 'B' & 'Bi', 'C' & 'Ci' 'D' & 'Di'	
		EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36	84	120.0	140.0	70.0	70.0
42		120.0	140.0	70.0	70.0
48		120.0	140.0	70.0	70.0
54		120.0	140.0	70.0	70.0
60		116.1	140.0	70.0	70.0
66		111.8	140.0	70.0	70.0
68		110.6	139.8	70.0	70.0
36	90	120.0	140.0	70.0	70.0
42		120.0	140.0	70.0	70.0
48		118.8	140.0	70.0	70.0
54		110.6	139.7	70.0	70.0
60		104.5	132.0	70.0	70.0
36	96	120.0	140.0	70.0	70.0
42		119.4	140.0	70.0	70.0
48		108.9	137.5	70.0	70.0
54		101.0	127.5	70.0	70.0
60		95.0	120.0	70.0	70.0
36	102	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
54		70.0	70.0	70.0	70.0
36	108	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
36	114	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0
36	120	70.0	70.0	70.0	70.0
42		70.0	70.0	70.0	70.0
48		70.0	70.0	70.0	70.0

AVERAGE PANEL WIDTH =  $\frac{\text{DOOR FRAME WIDTH}}{\text{NUMBER OF PANELS}}$

ALL EXTERIOR(+) LOADS SHOWN IN CHARTS ABOVE ARE  
FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.

FOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS REQUIRED  
LIMIT MAX. EXT.(+) LOADS TO 95.0 PSF FOR 3–7/16" SILL HEIGHTS  
LIMIT MAX. EXT.(+) LOADS TO 60.0 PSF FOR 2–7/16" SILL HEIGHTS  
SEE SHEETS 9, 11 & 13 FOR DETAILS

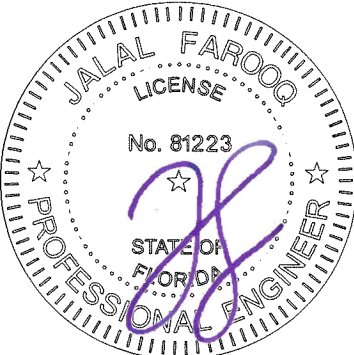
NOTE:  
GLASS CAPACITIES ARE BASED ON  
ASTM E1300–09 (3 SEC. GUSTS)  
AND FLORIDA BUILDING COMMISSION  
DECLARATORY STATEMENT DCA05–DEC–219

HEAD & SILL ANCHOR LOAD CAPACITY – PSF											
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHORS TYPE 'A'			ANCHORS TYPE 'B'			ANCHORS TYPE 'C'			
		4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	8 ANCHORS AT MTG. STILE ENDS	
		EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	EXT. (+) INT. (–)	
36	84	122.3	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	
42		104.8	139.8	140.0	134.7	140.0	140.0	140.0	140.0	140.0	
48		91.7	122.3	140.0	117.9	140.0	140.0	124.7	140.0	140.0	
54		81.5	108.7	135.9	104.8	139.7	140.0	110.9	140.0	140.0	
60		73.4	97.8	122.3	94.3	125.7	140.0	99.8	133.0	140.0	
66		66.7	88.9	111.2	85.7	114.3	140.0	90.7	120.9	140.0	
68		64.7	86.3	107.9	83.2	110.9	138.7	88.0	117.4	140.0	
36	90	114.1	140.0	140.0	140.0	140.0	140.0	140.0	140.0	140.0	
42		97.8	130.4	140.0	125.7	140.0	140.0	133.0	140.0	140.0	
48		85.6	114.1	140.0	110.0	140.0	140.0	116.4	140.0	140.0	
54		76.1	101.5	126.8	97.8	130.4	140.0	103.5	138.0	140.0	
60		68.5	91.3	114.1	88.0	117.3	140.0	93.1	124.2	140.0	
36	96	107.0	140.0	140.0	137.5	140.0	140.0	140.0	140.0	140.0	
42		91.7	122.3	140.0	117.9	140.0	140.0	124.7	140.0	140.0	
48		80.3	107.0	133.8	103.1	137.5	140.0	109.1	140.0	140.0	
54		71.3	95.1	118.9	91.7	122.2	140.0	97.0	129.3	140.0	
60		64.2	85.6	107.0	82.5	110.0	137.5	87.3	116.4	140.0	
36	102	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
42		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
48		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
54		67.1	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
36	108	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
42		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
48		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
36	114	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
42		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
48		67.6	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
36	120	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
42		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
48		64.2	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	

SEE SHEET 9 FOR ANCHOR DESCRIPTION  
SEE SHEET 3 FOR JAMB ANCHOR CAPACITY

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FL #43777



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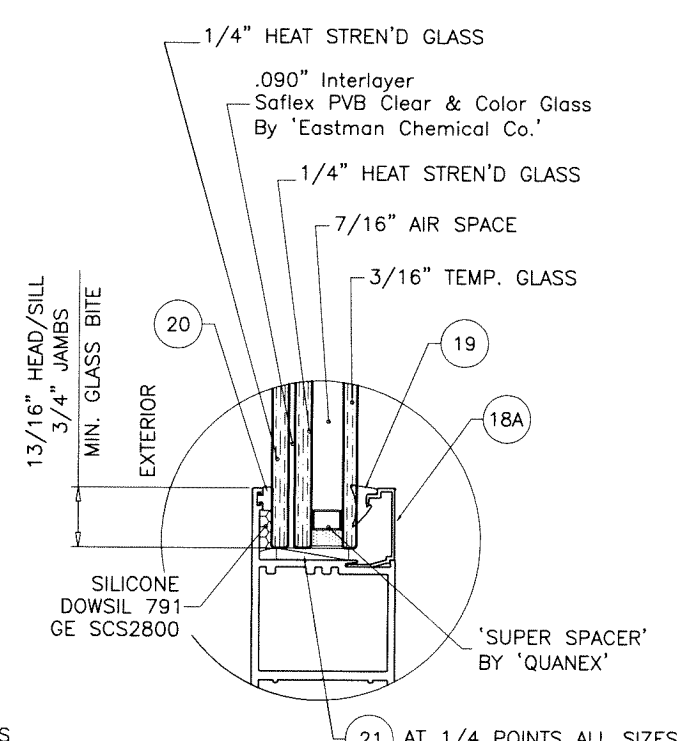
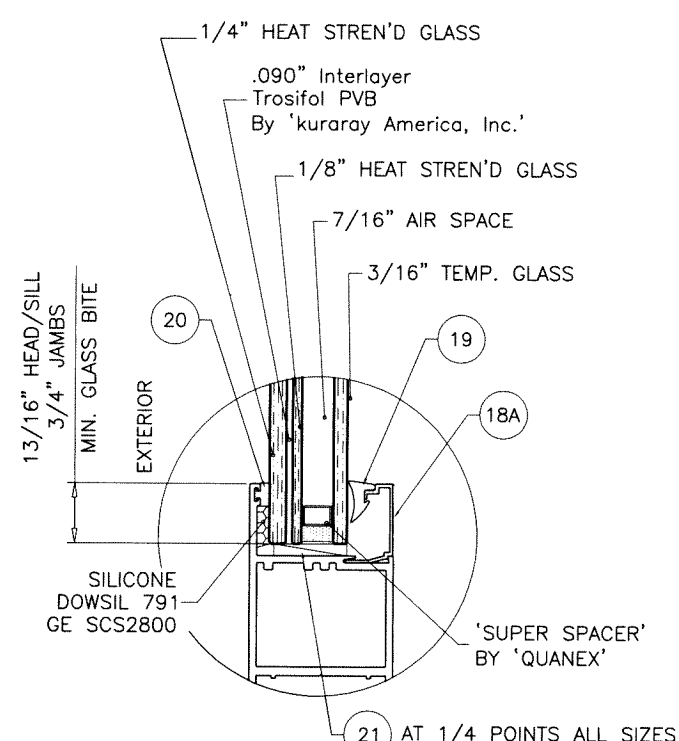
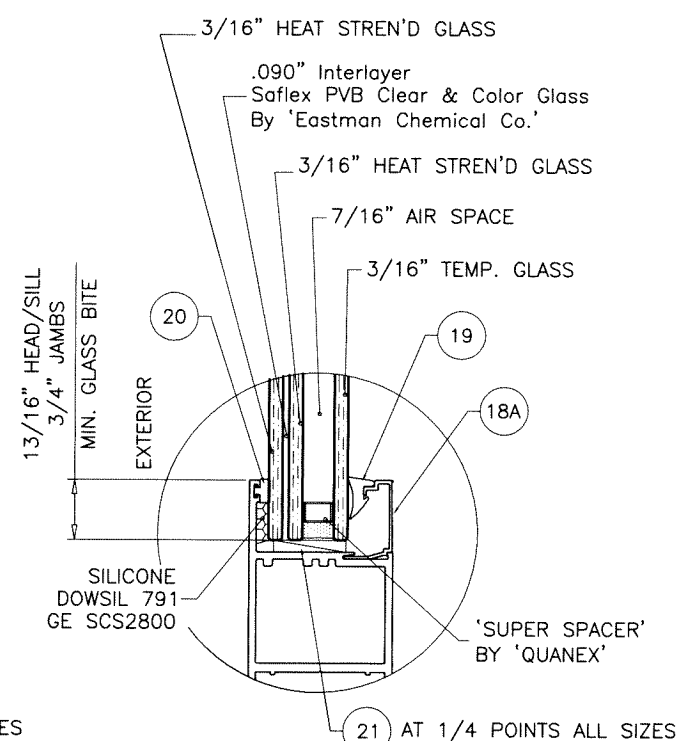
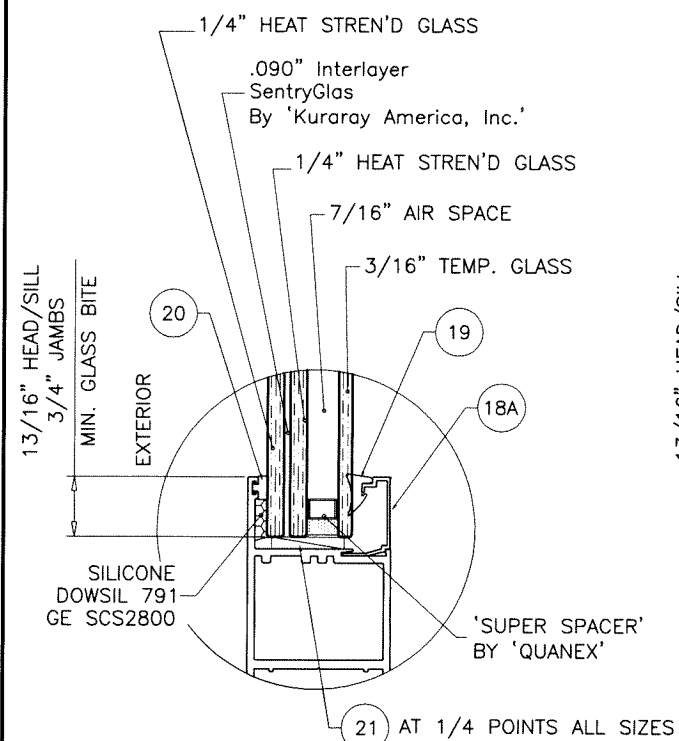
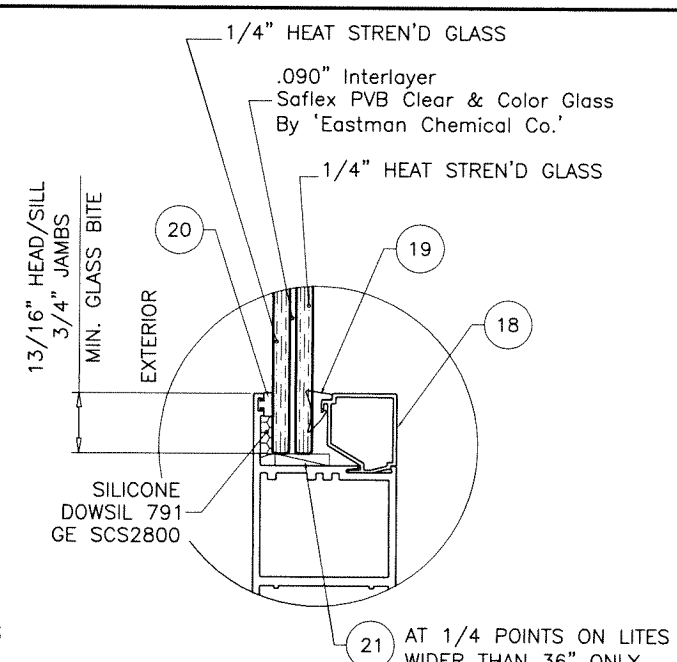
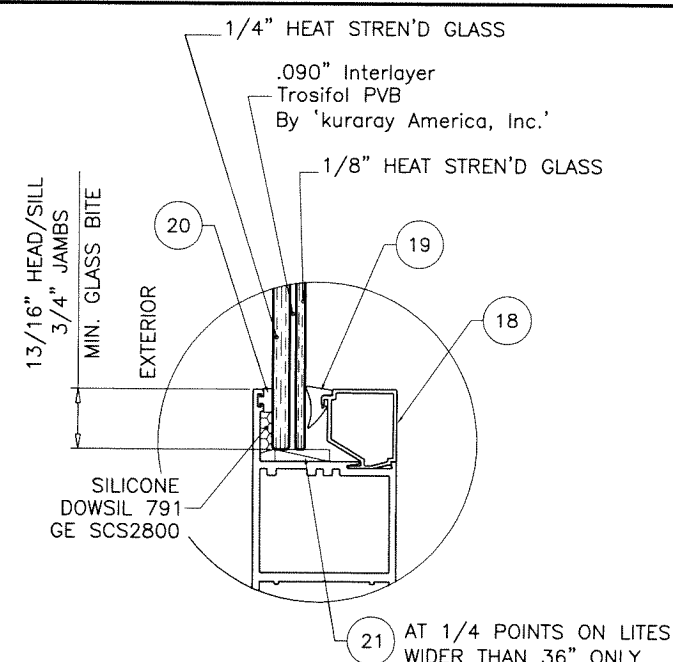
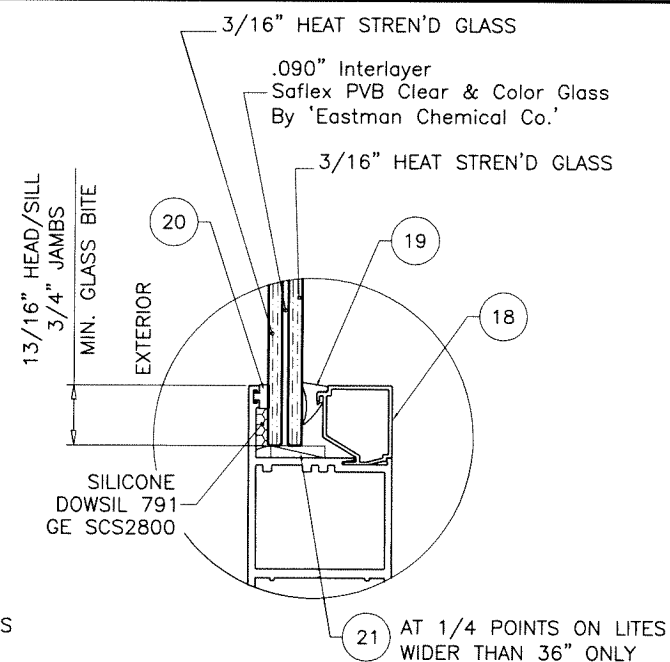
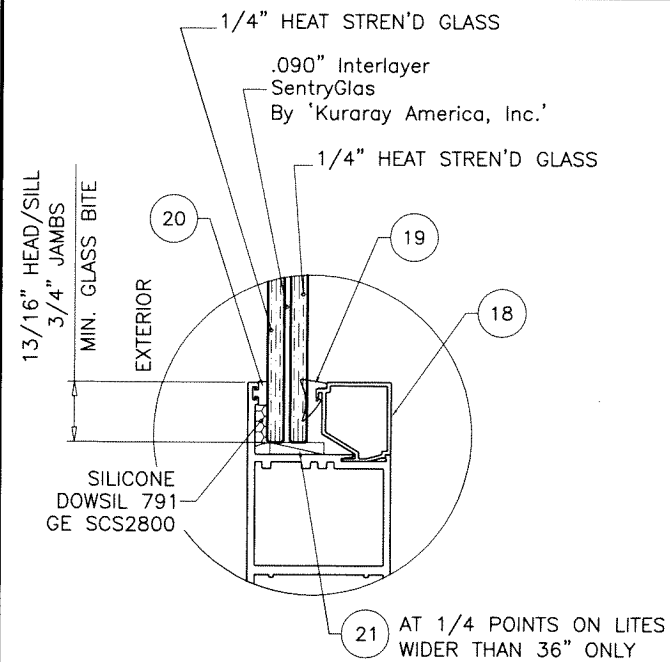
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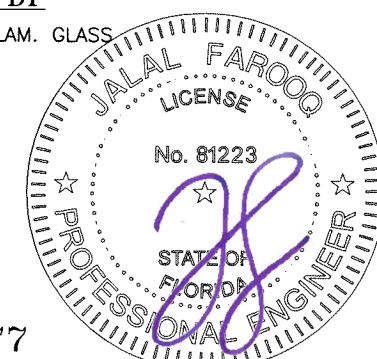
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sheet 1.1 of 18				

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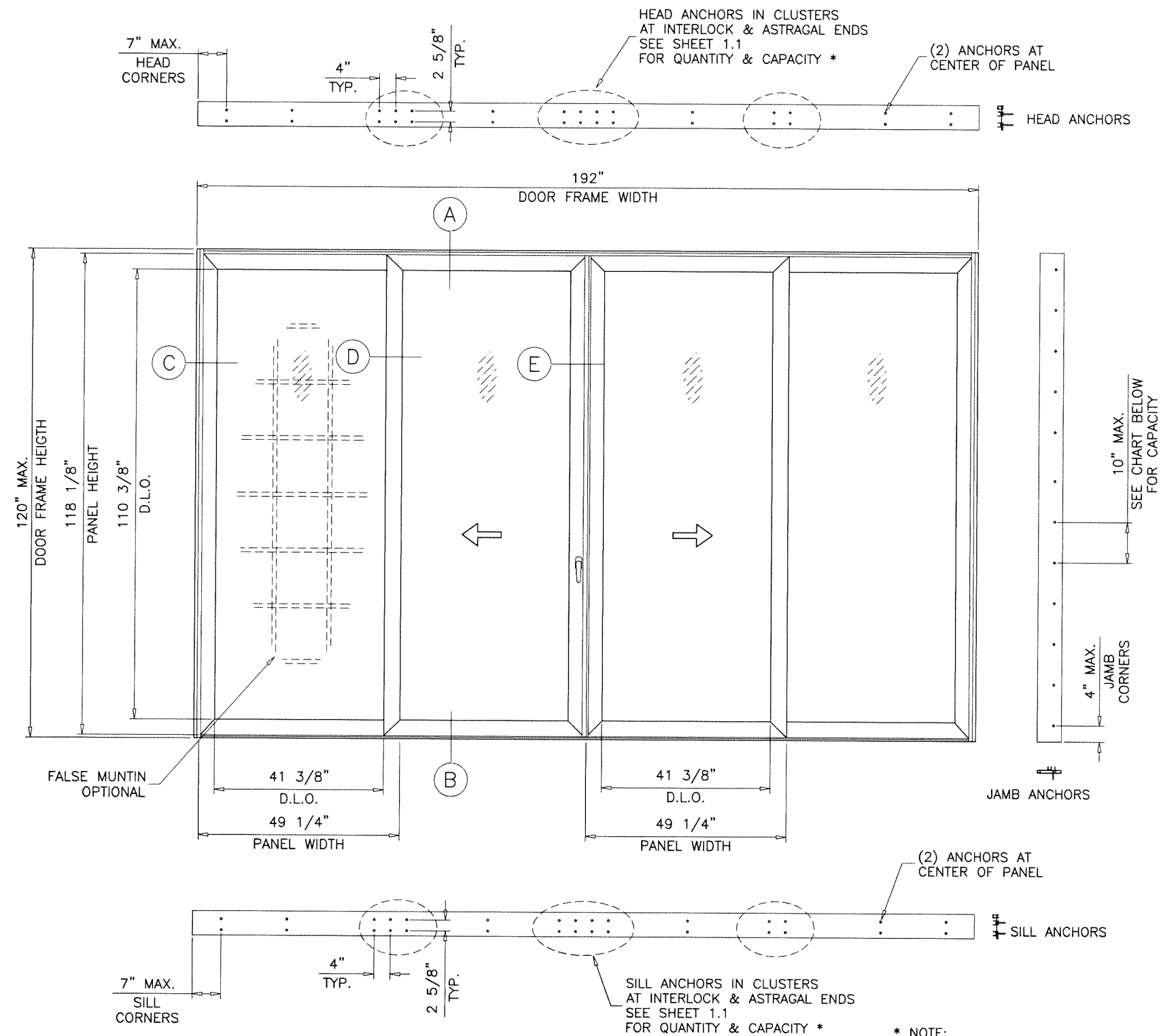
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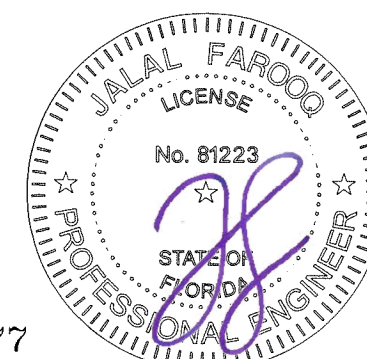


**TYPICAL ELEVATION**  
(2 TRACK)

AVERAGE PANEL WIDTH	JAMB ANCHOR LOAD CAPACITY-PSF	
	ANCHOR TYPE 'A'	ANCHOR 'B' & 'C'
36"	140.0	140.0
42"	140.0	
48"	128.4	
54"	114.1	
60"	102.7	
66"	93.4	
68"	90.6	

DAYLITE OPENINGS WIDTHS:  
PANEL WIDTH - 8.00"  
  
DAYLITE OPENING HEIGHT:  
PANEL HEIGHT - 7.750"  
  
PANEL HEIGHT = DOOR FRAME HEIGHT - 1.875"

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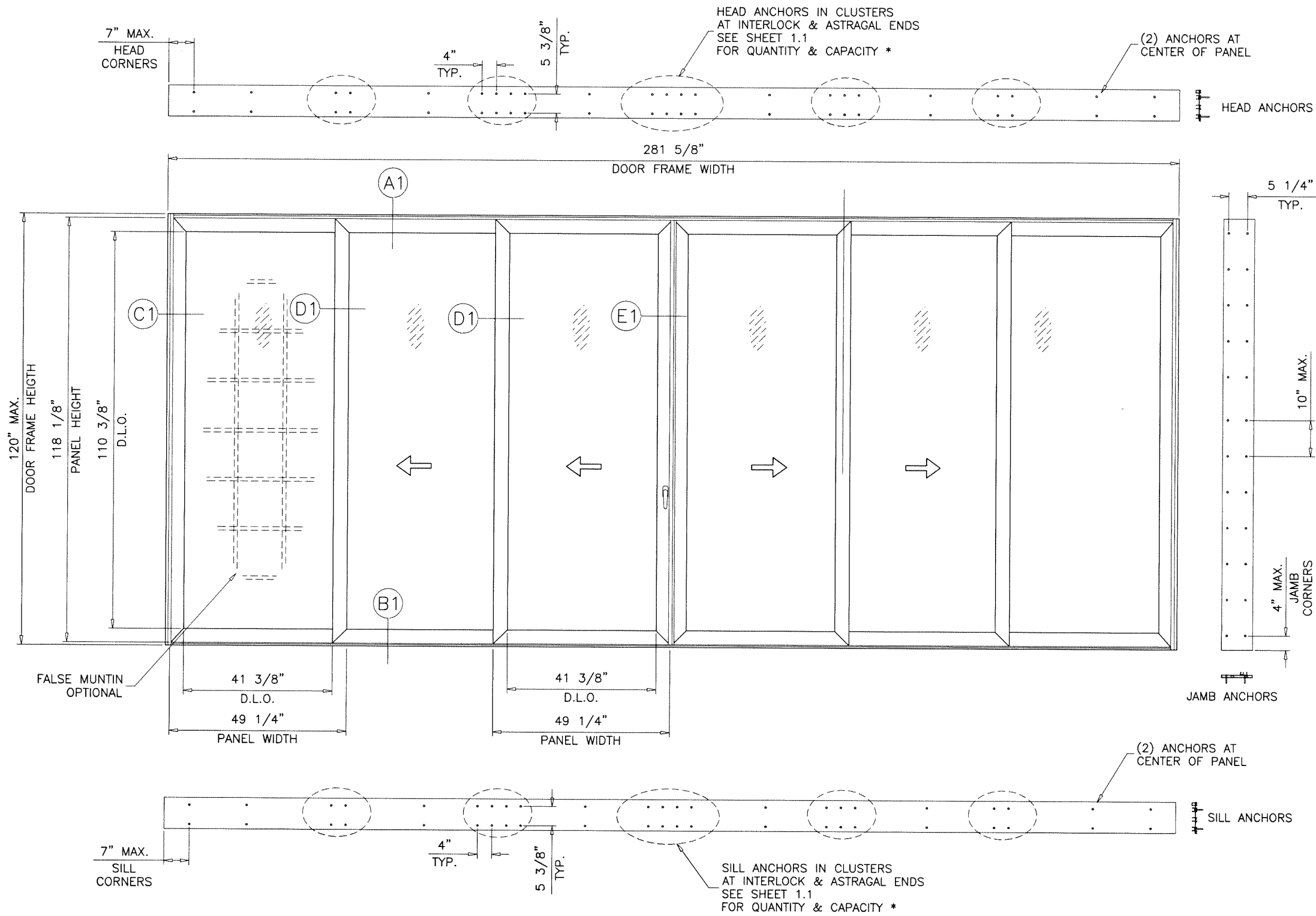


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drawing no.	23-40F
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**TYPICAL ELEVATION**  
(3 TRACK)

\* NOTE:  
SHEAR CLIPS ITEM NUMBERS 30 & 31  
TO BE 14\"

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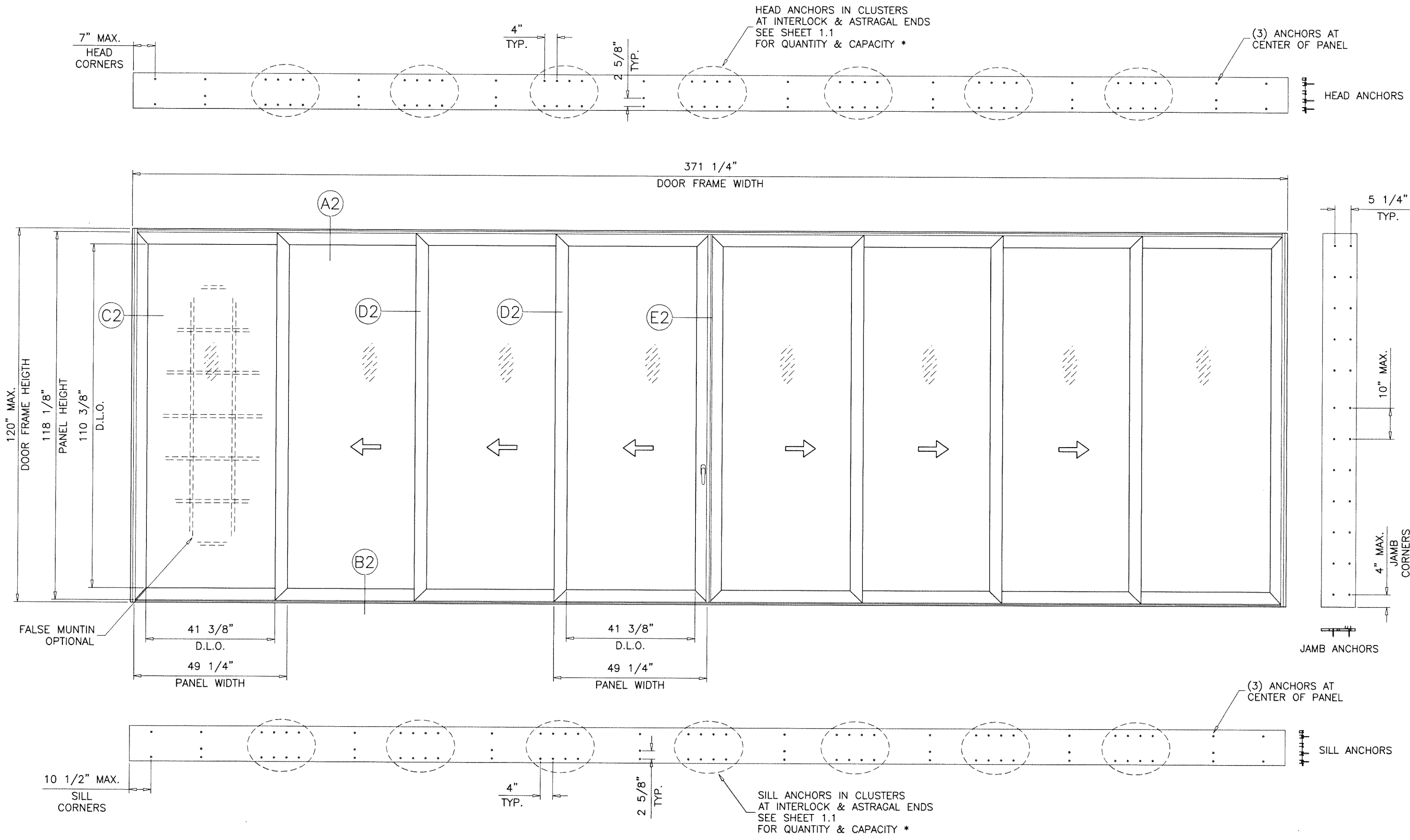
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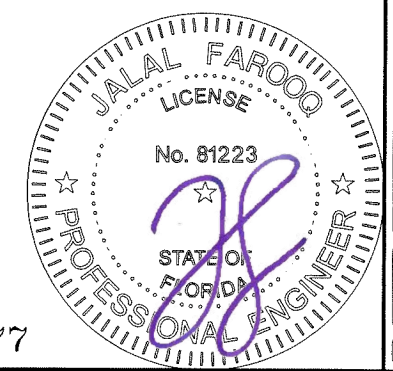
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**23-40F**  
sheet 4 of 18



**TYPICAL ELEVATION**  
(4 TRACK)

\* NOTE:  
SHEAR CLIPS ITEM NUMBERS 30 & 31  
TO BE 14" LONG AT CLUSTERS AND  
4" LONG AT MID PANEL ANCHORS



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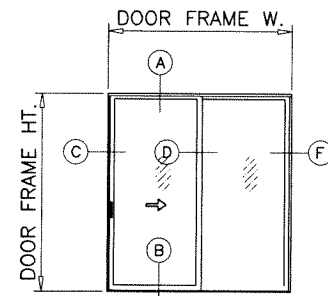
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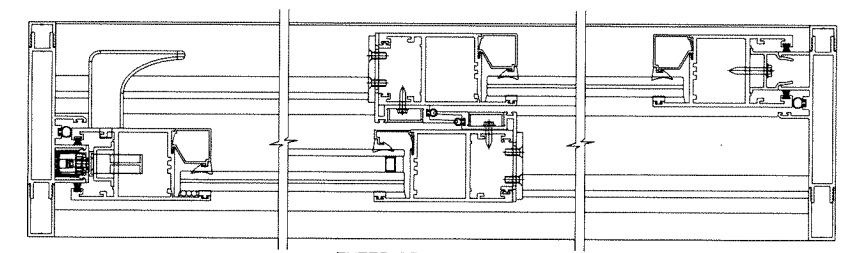
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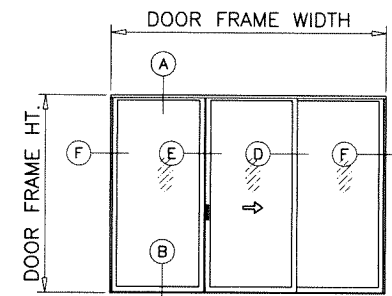
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OX  
XX



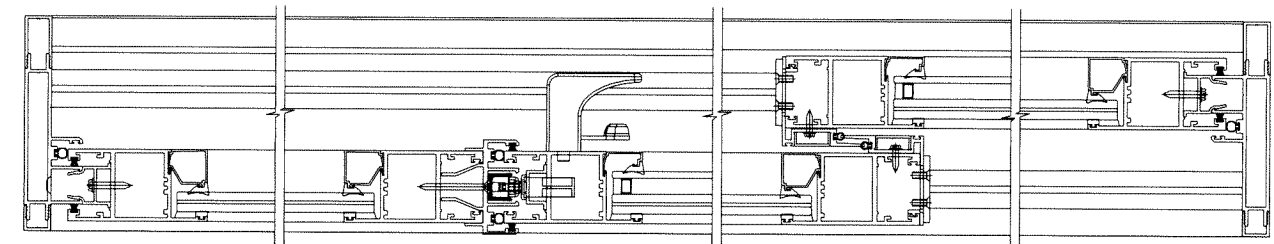
EXTERIOR

NOTE:  
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE  
SEE APPLICABLE DESIGN PRESSURES & SIZES IN SHEET 1.1  
AND ANCHOR INSTALLATION IN SHEETS 9 & 10.

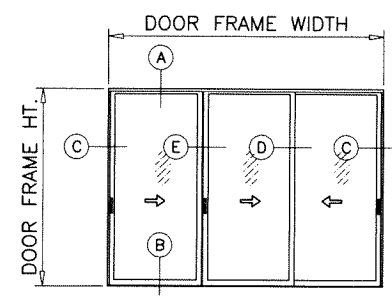
MAX. FRAME AREA OF TWO (2) TRACK S.G.D. SHALL NOT  
EXCEED 352 SQ. FT.  
DOOR PANEL AREA SHALL NOT EXCEED 40.0 SQ. FT.  
PER FBC REQUIREMENTS.



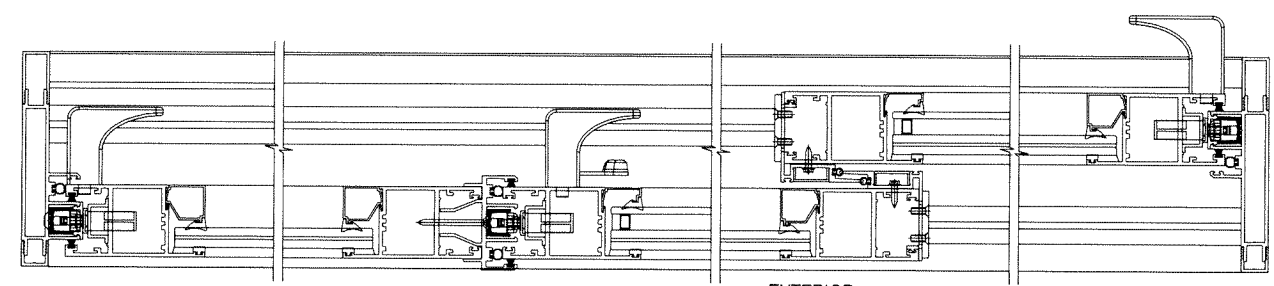
O-XO (SHOWN)



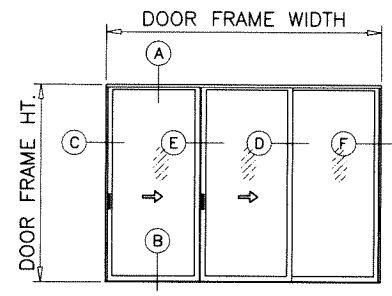
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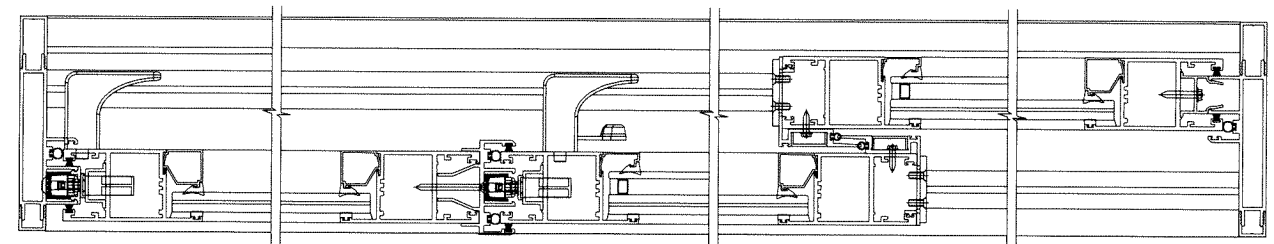
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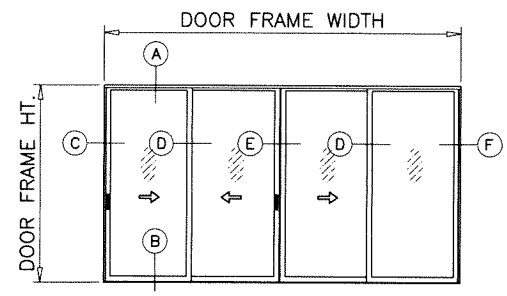
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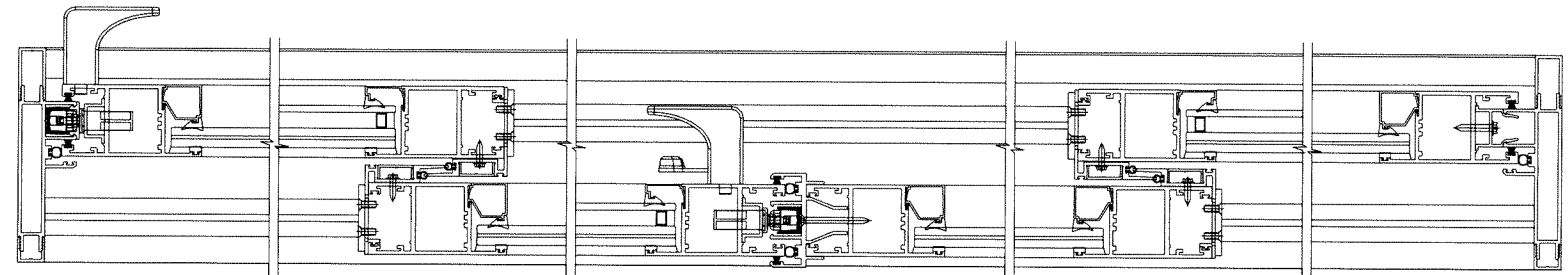
X-XO (SHOWN)  
OX-X



EXTERIOR



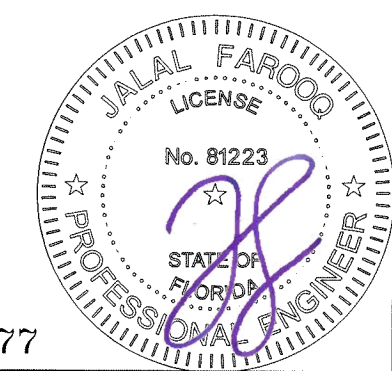
XX-XO (SHOWN)  
XX-XX  
OX-XO



EXTERIOR

APPROVED CONFIGURATIONS  
TWO (2) TRACKS

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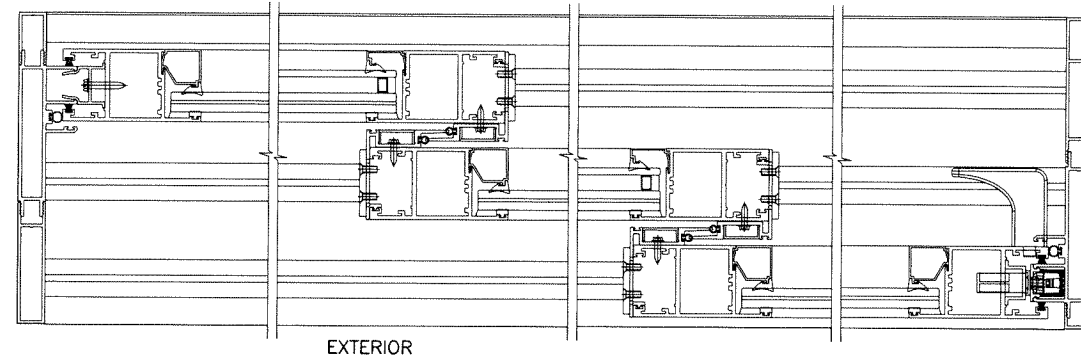
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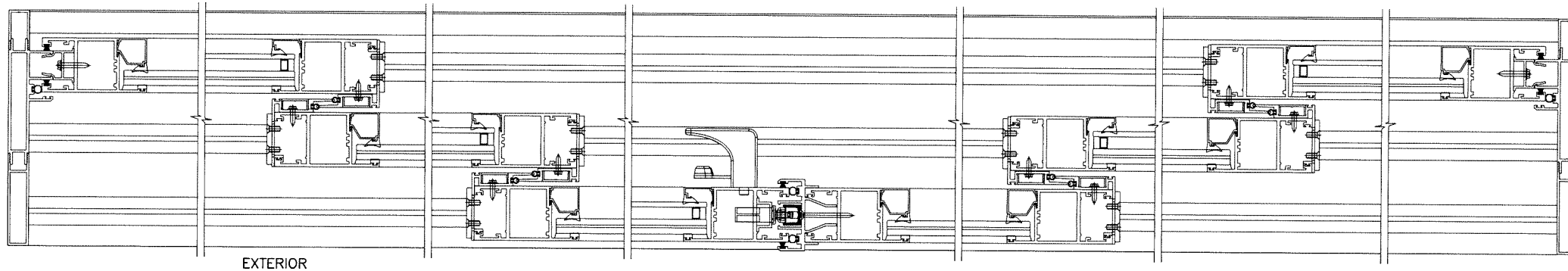
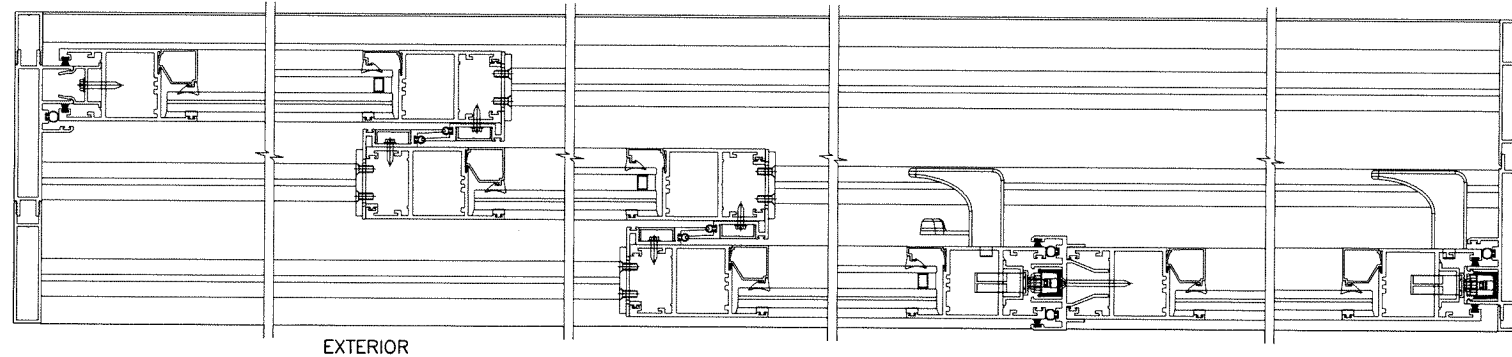
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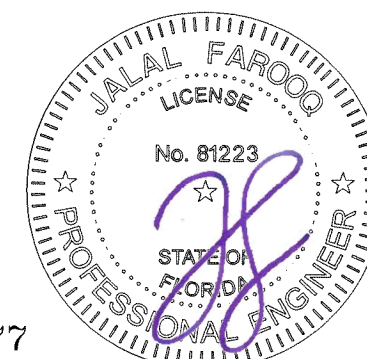
drawing no.	23-40F
sheet 6 of 18	



MAX. FRAME AREA OF TWO (3) TRACK S.G.D. SHALL NOT EXCEED 352 SQ. FT.  
DOOR PANEL AREA SHALL NOT EXCEED 40.0 SQ. FT.  
PER FBC REQUIREMENTS.



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FL #43777



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Medley, FL. 33166

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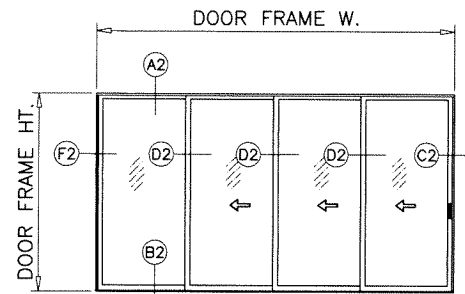
Phone: (305) 713-1871      Fax: (305) 713-1872

**AL-FAROOQ CORPORATION**  
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9360 SUNSET DRIVE, SUITE 220  
MIAMI, FLORIDA 33173 (C.A.N. 3538)  
TEL. (305) 264-8100 FAX. (305) 262-6978

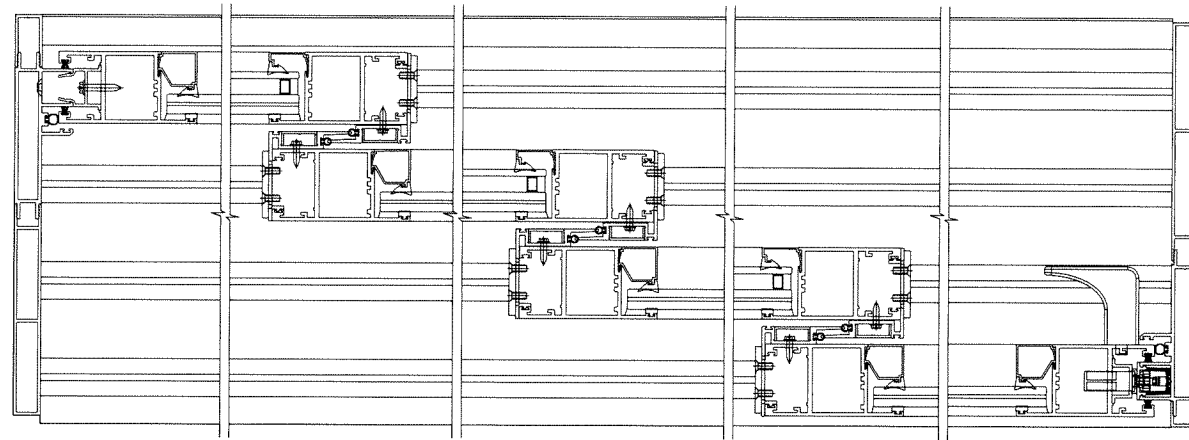
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sheet 7 of 18			



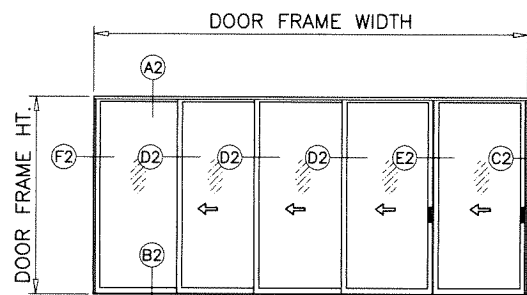


OXXX (SHOWN)  
XXXXO  
XXXX

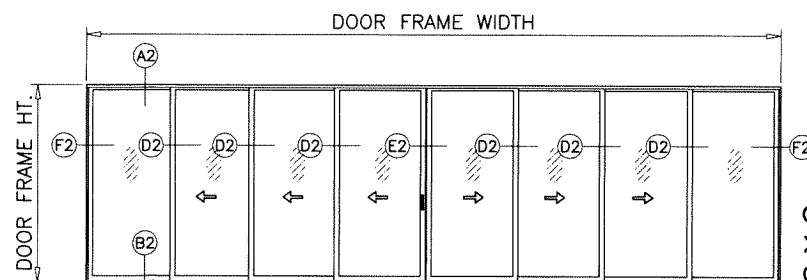
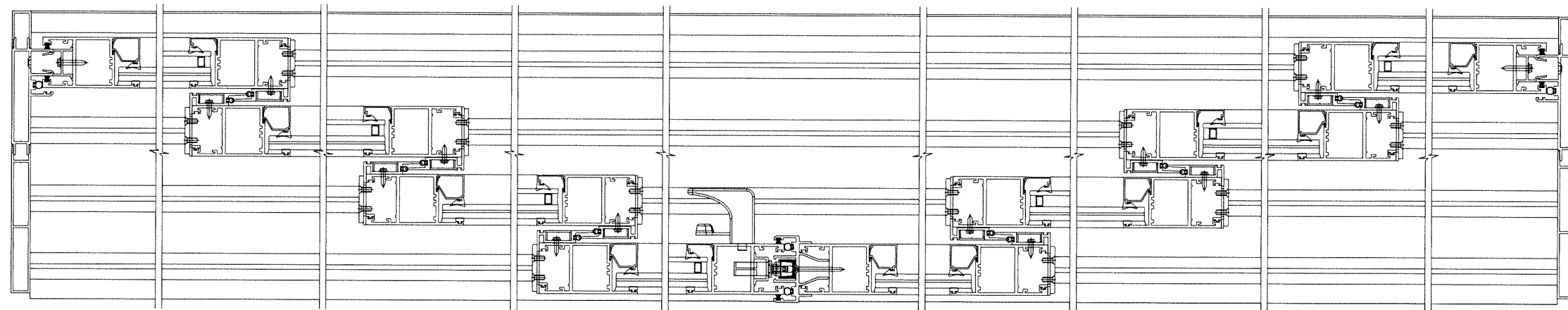
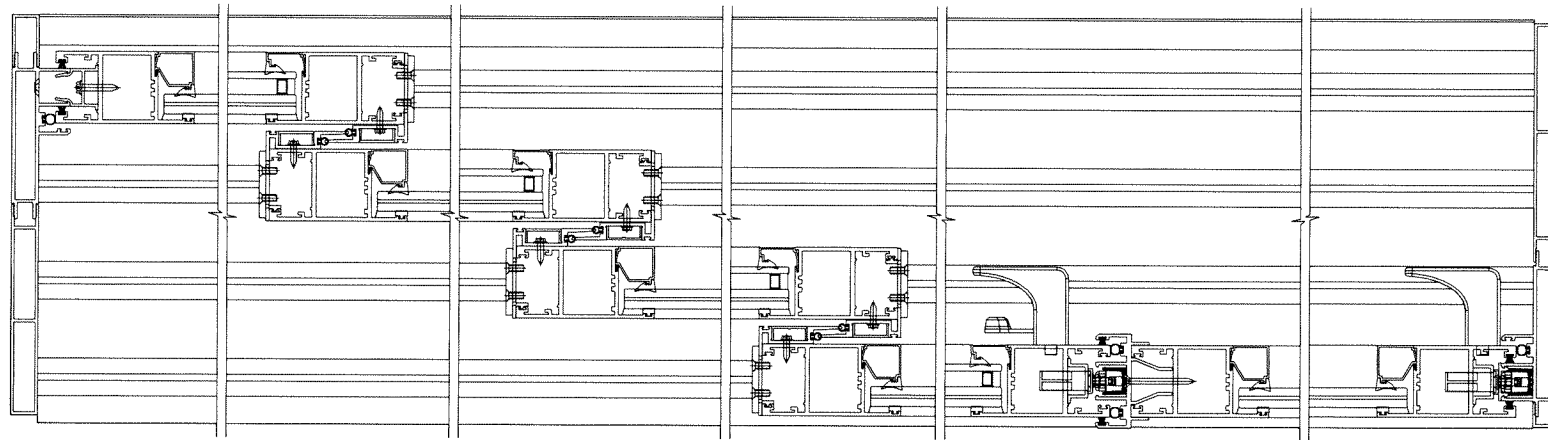


NOTE:  
CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE  
SEE APPLICABLE DESIGN PRESSURES & SIZES IN SHEET 1.1  
AND ANCHOR INSTALLATION IN SHEETS 13 THRU 15.

MAX. FRAME AREA OF TWO (4) TRACK S.G.D. SHALL NOT  
EXCEED 352 SQ. FT.  
DOOR PANEL AREA SHALL NOT EXCEED 40.0 SQ. FT.  
PER FBC REQUIREMENTS.



OXXX-X (SHOWN)  
X-XXXXO  
XXXX-X  
X-XXXX

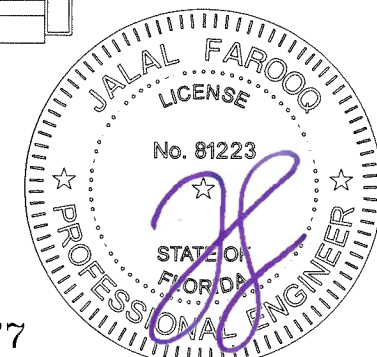


OXXX-XXXXO (SHOWN)  
XXXX-XXXX  
OXXX-XXXX

APPROVED CONFIGURATIONS  
FOUR (4) TRACKS

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(C.A.N. 3538)

SERIES EC400 ALUM SLIDING GLASS DOOR (L.M.I.)

**Eurocraft Industries Inc.**

7905 N.W. 77th Ave.  
Medley, FL 33166

Phone: (305) 713-1871 Fax: (305) 713-1872

revisions:  
no date by description

date: 09-01-23

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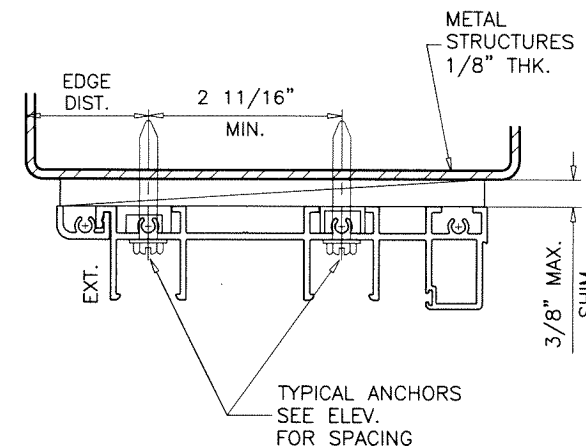
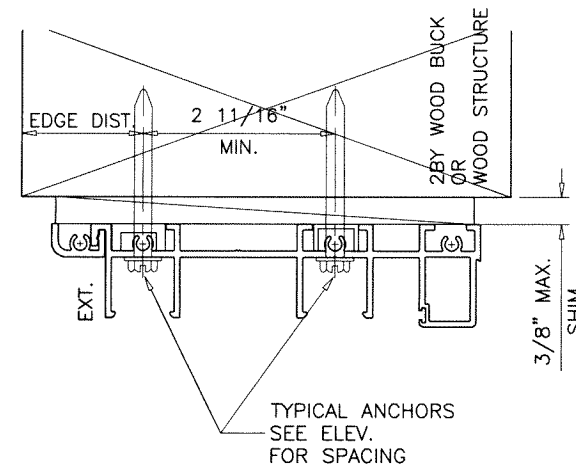
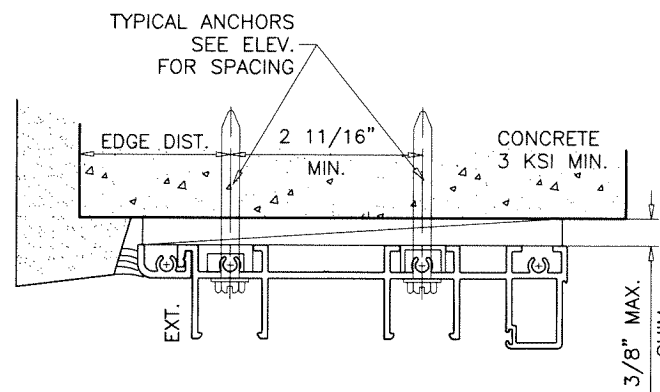
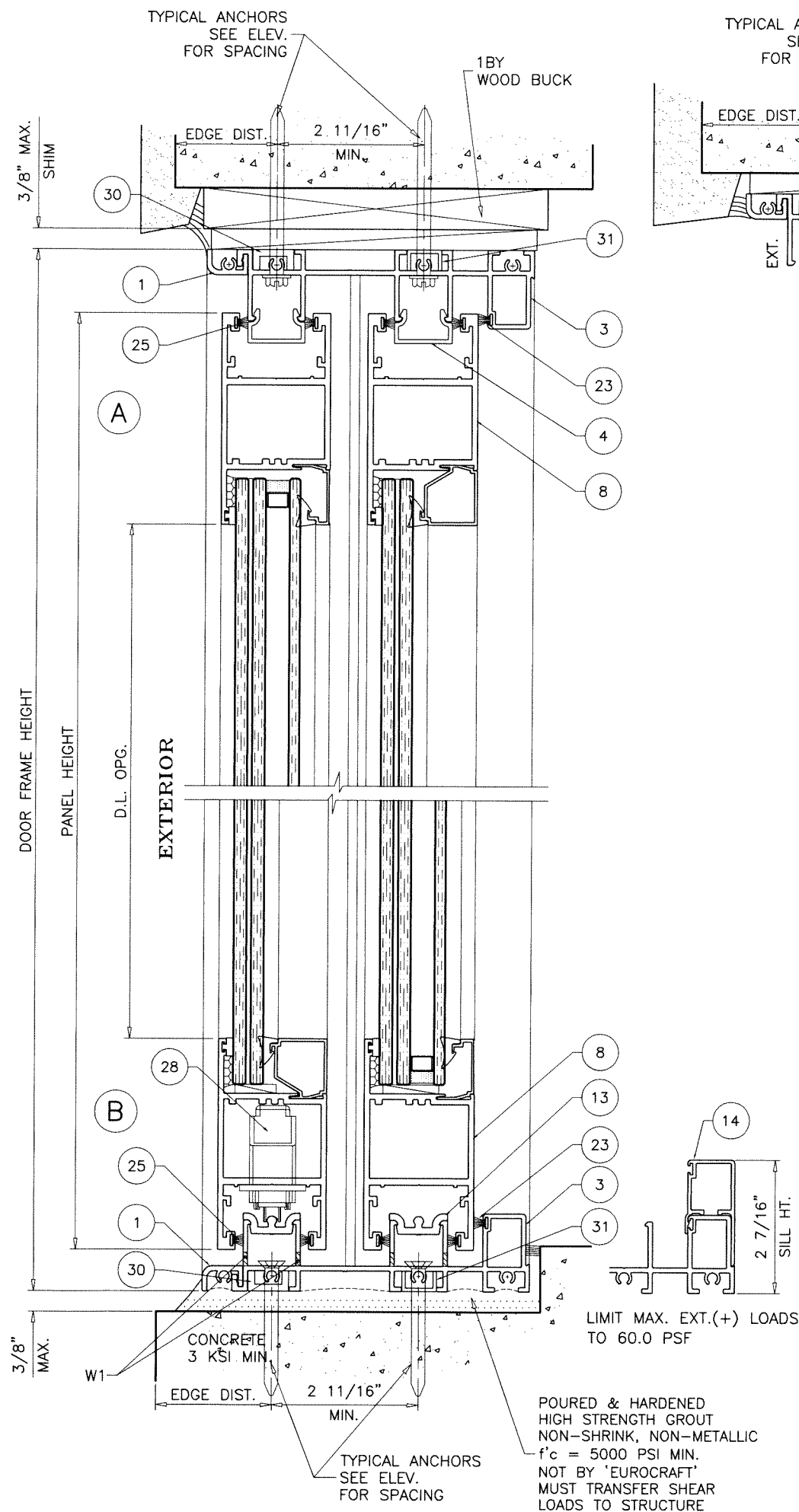
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**23-40F**

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1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY 'EUROCAST' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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

**TYPE 'A'— 5/16" DIA. ULTRACON BY 'DEWALT'** ( $F_u=177$  KSI,  $F_y=155$  KSI)  
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES  
 1-1/2" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)  
 THRU 1BY BUCKS INTO CONC. OR BLOCKS  
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)  
 1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

**TYPE 'B'— 5/16" DIA. ULTRACON BY 'DEWALT'** ( $F_u=177$  KSI,  $F_y=155$  KSI)  
 DIRECTLY INTO CONCRETE OR BLOCKS  
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)  
 1-3/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

**TYPE 'C'— 5/16" DIA. TEKS OR SELF-DRILLING SCREWS** (GRADE 5 CRS)  
 INTO F.B.C. APPROVED MULLIONS  
 OR  
 INTO METAL STRUCTURES (HEAD/JAMBS)  
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS  
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)  
 STEEL: 1/8" THK. MIN. ( $F_y = 36$  KSI MIN.)  
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#### CRITICAL EDGE DISTANCE

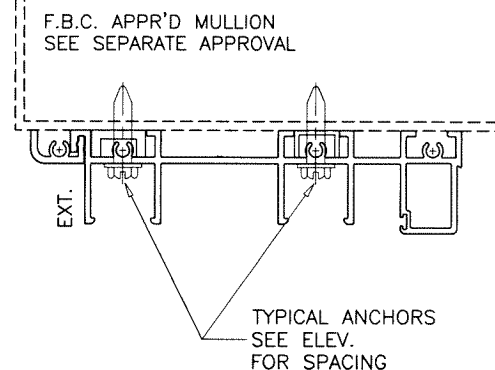
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.  
 INTO WOOD STRUCTURE = 1-1/4" MIN.  
 INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMBS SG = 0.55 MIN.  
 CONCRETE AT HEAD, SILL OR JAMBS  $f'_c = 3000$  PSI MIN.  
 C-90 GROUT-FILLED BLOCK AT JAMBS  $f'_m = 2000$  PSI MIN.

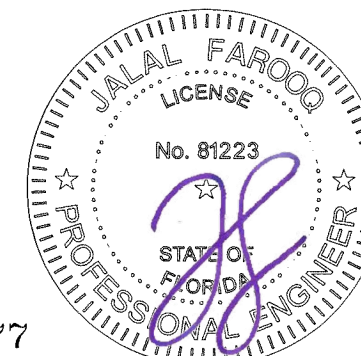
ANCHORS MAY BE HEX OR FLAT HEAD

#### WEEPHOLES:

W1 = 3/16" X 3" LONG WEEP HOLES AT 10" FROM EACH END.



2 TRACK FRAMES



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FL #43777

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 TEL. (305) 264-8100 FAX. (305) 262-6978  
 COMP-ANL\23-40F-EII

SERIES EC400 ALUM SLIDING GLASS DOOR (L.M.I.)

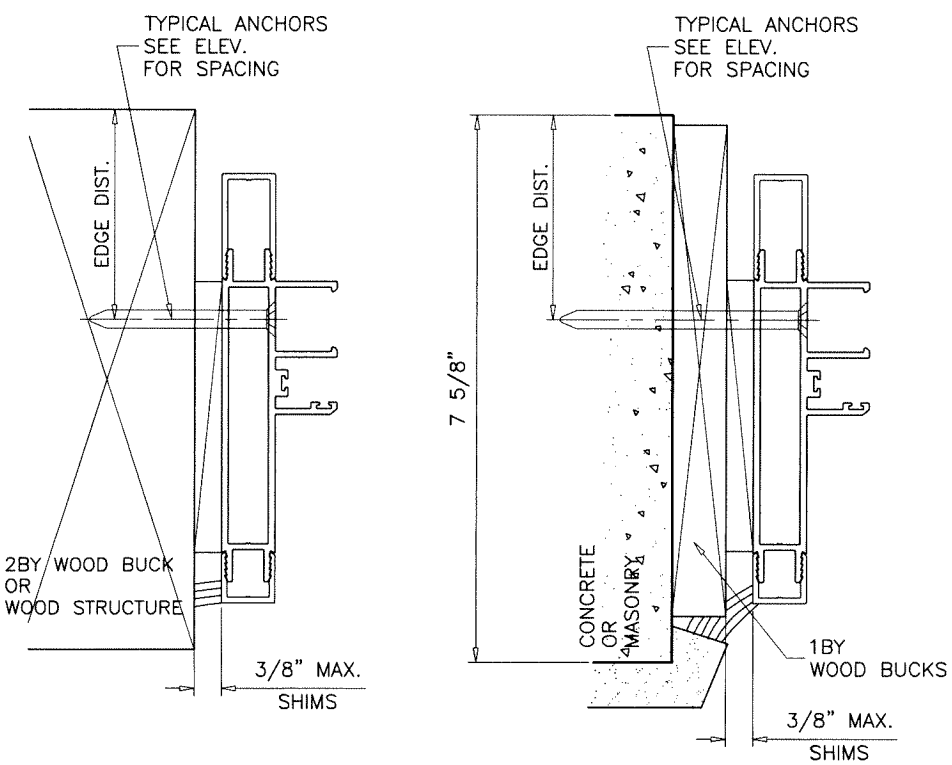
**Eurocraft Industries Inc.**

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 Medley, FL. 33166

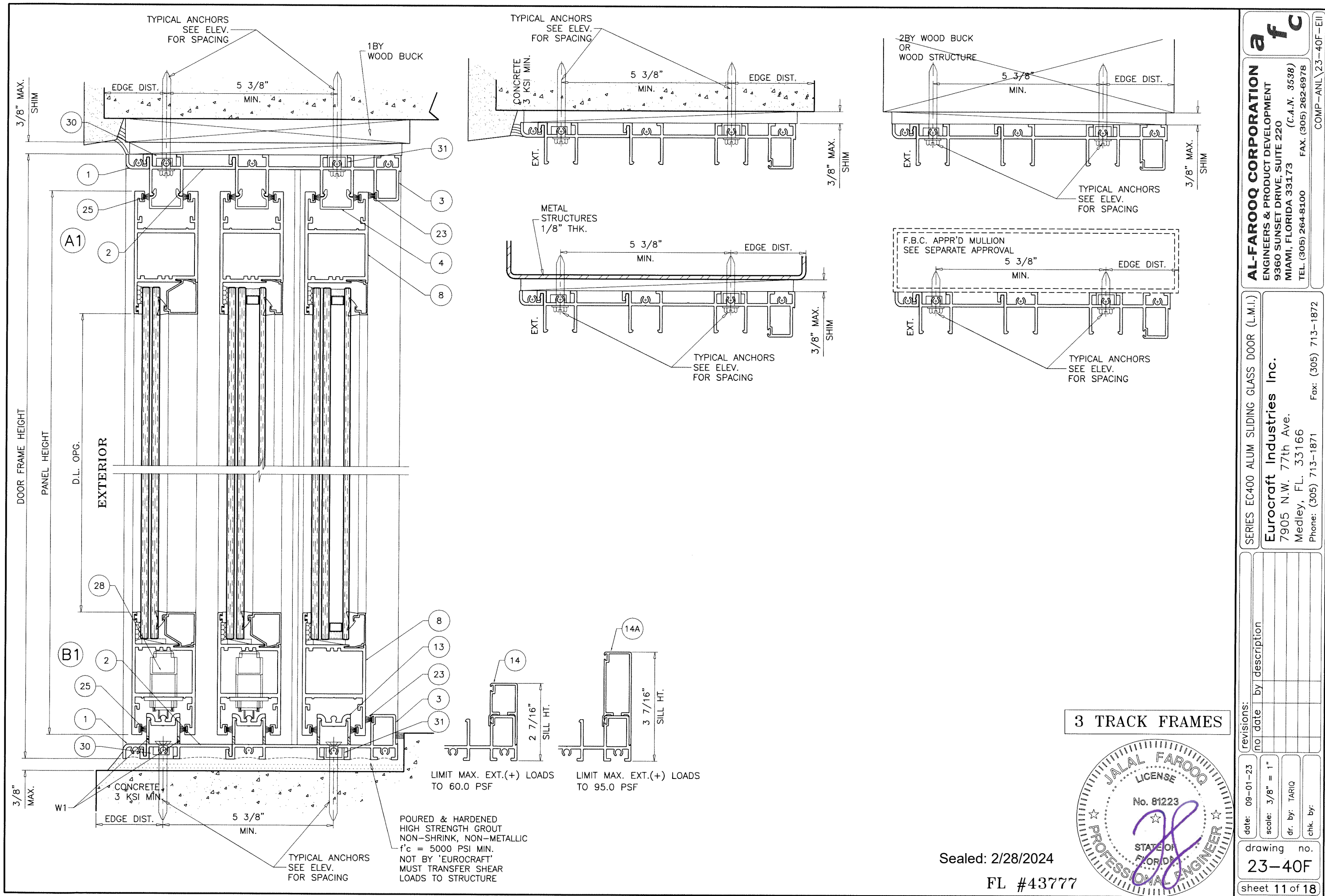
Phone: (305) 713-1871 Fax: (305) 713-1872

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chk. by:		drawing no.	23-40F	sheet	9 of 18



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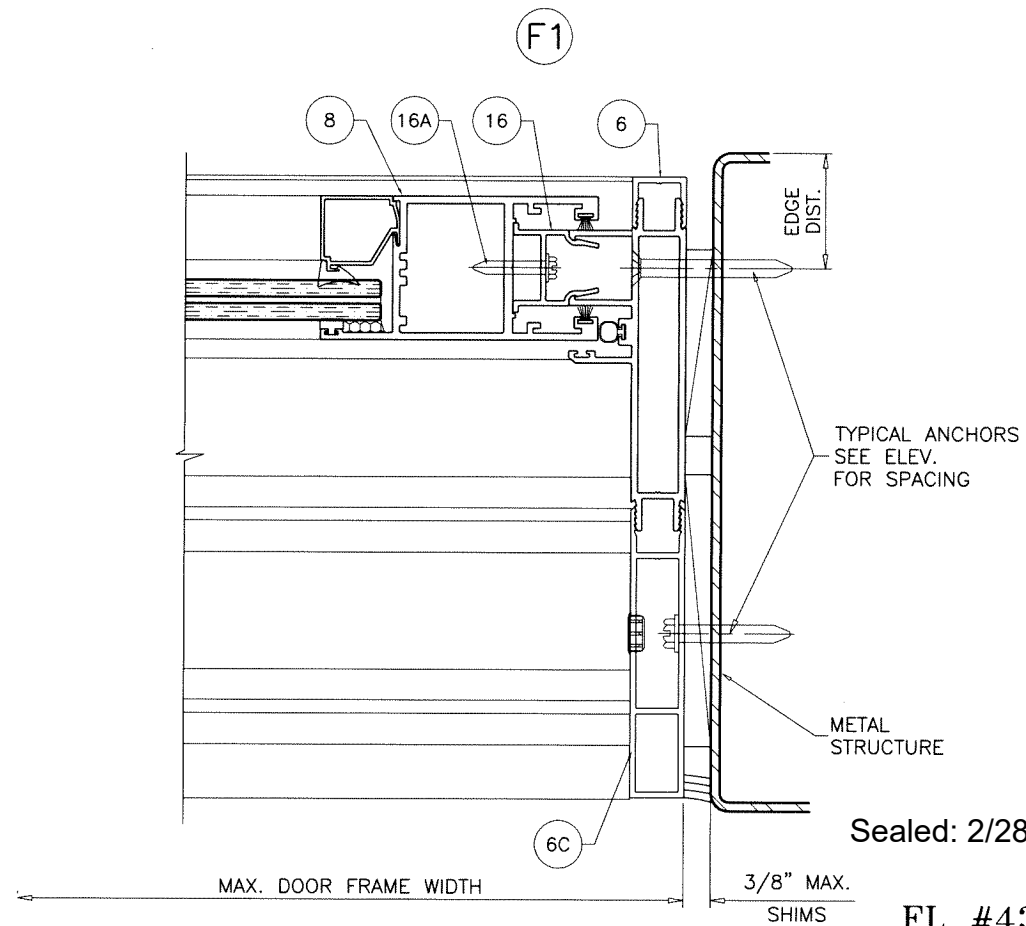
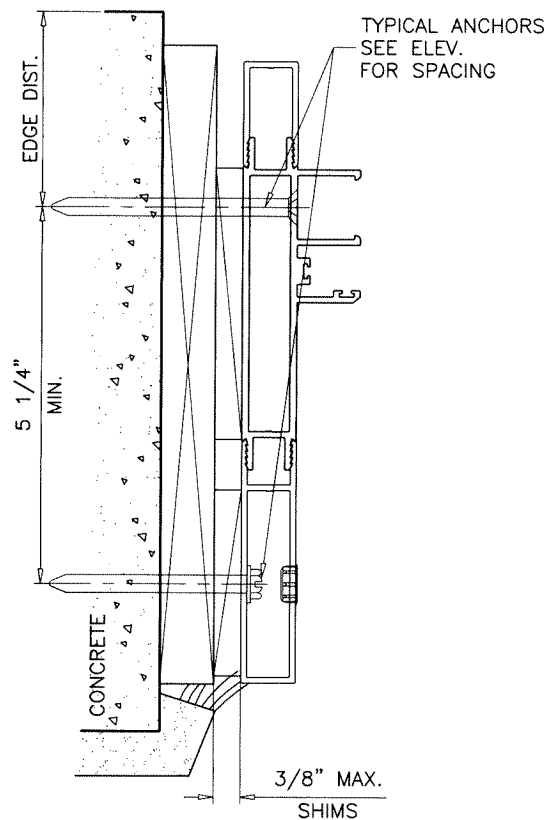
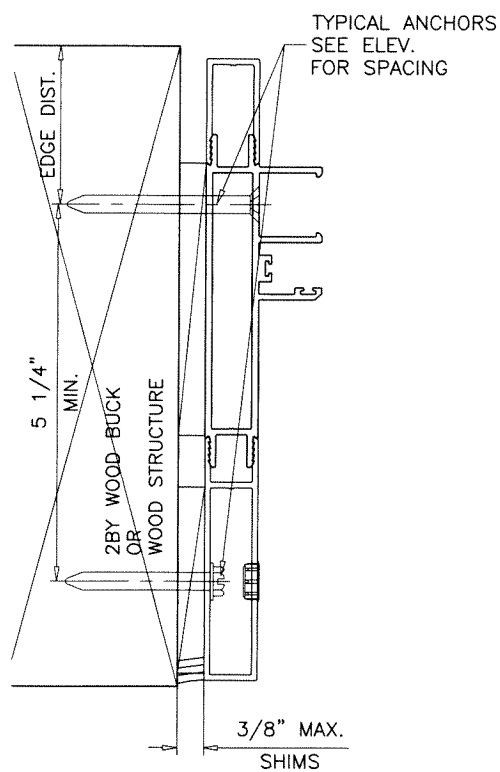
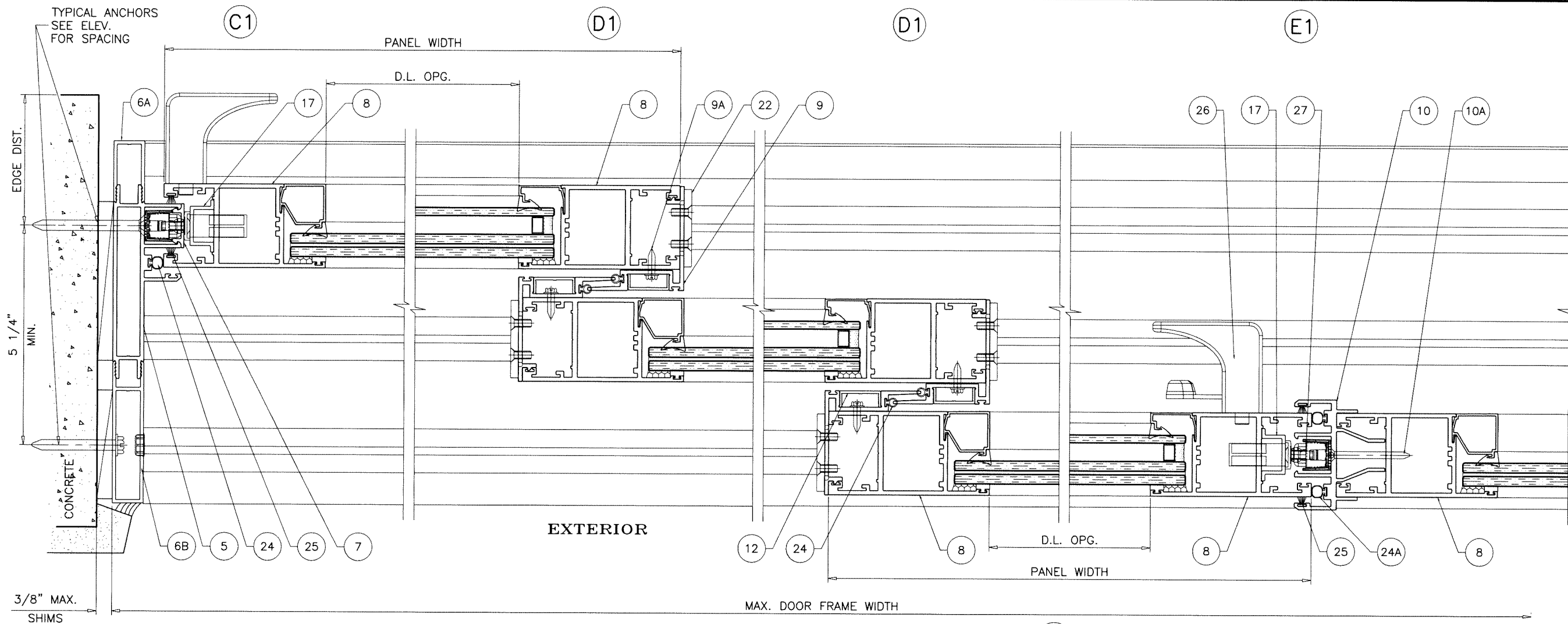
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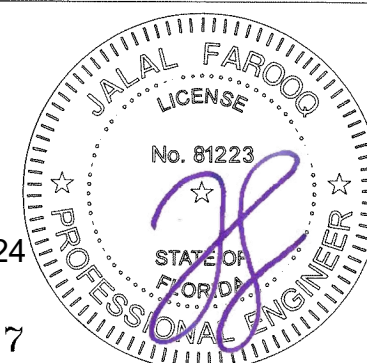
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dr. by:	TARIQ				
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drawing no.	23-40F				
sheet	11 of 18				



3 TRACK FRAMES



Sealed: 2/28/2024

FL #43777

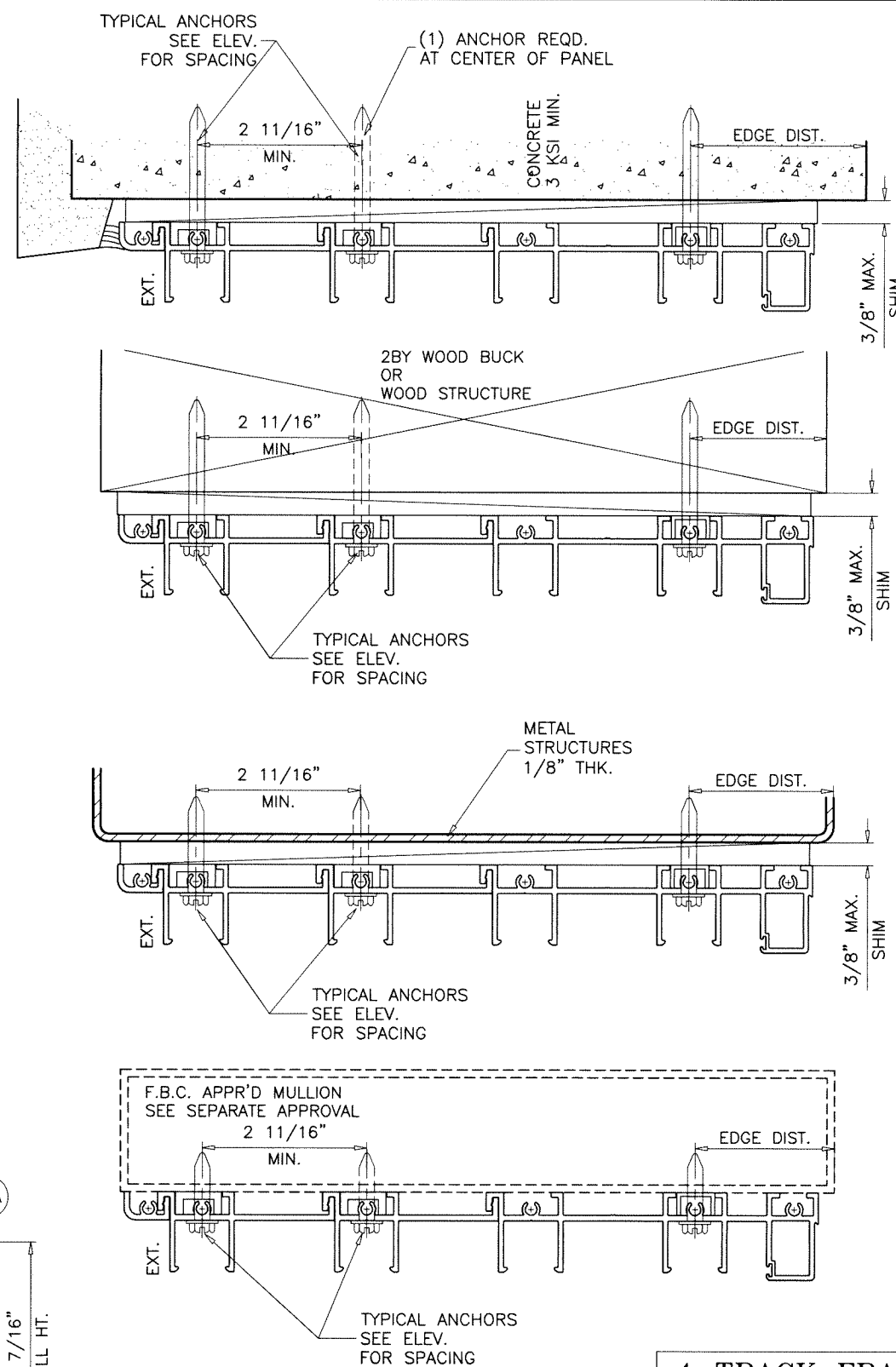
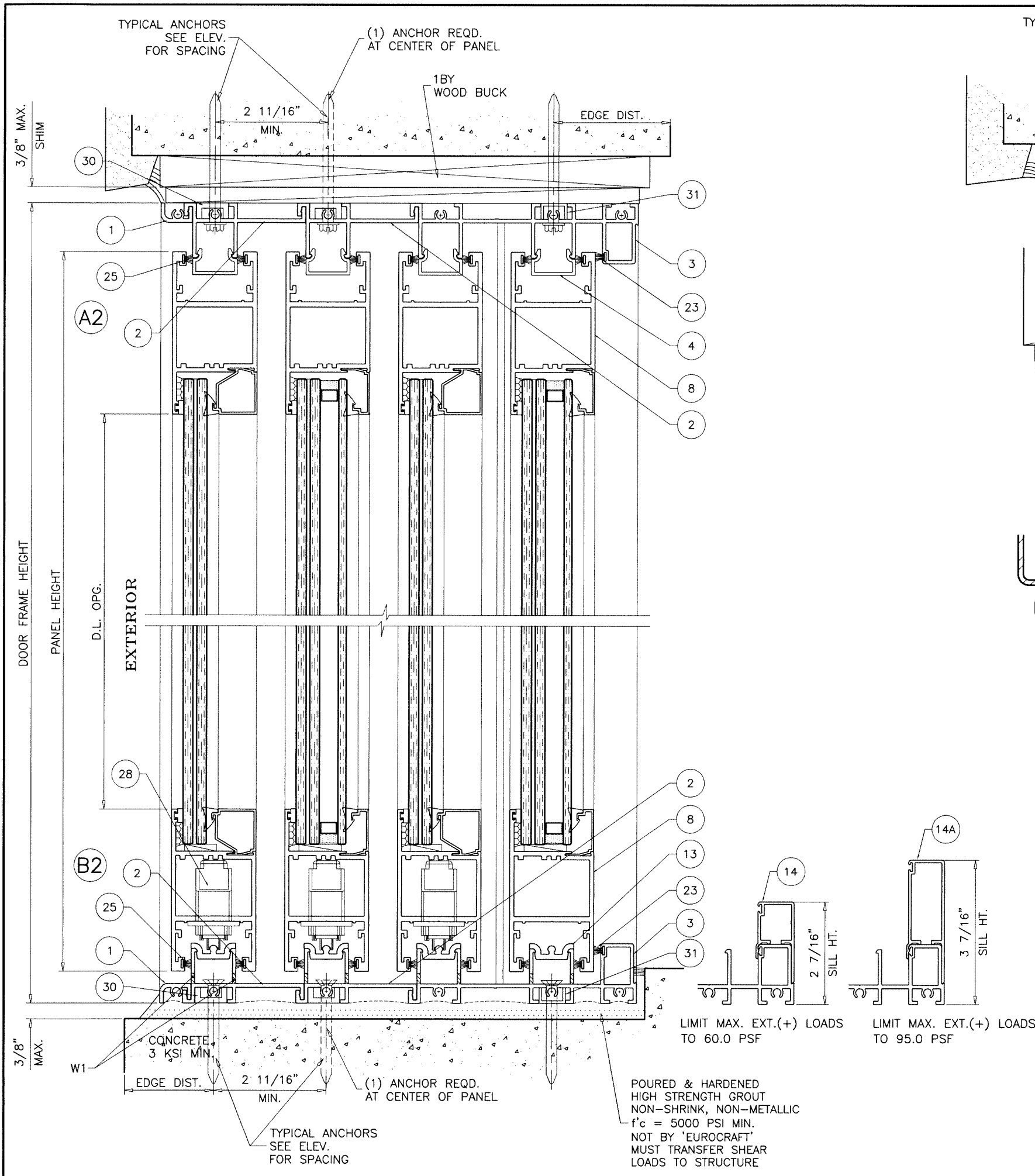
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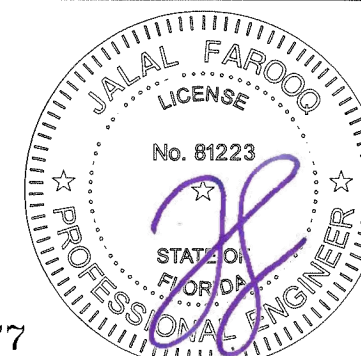
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**23-40F**  
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#### 4 TRACK FRAMES



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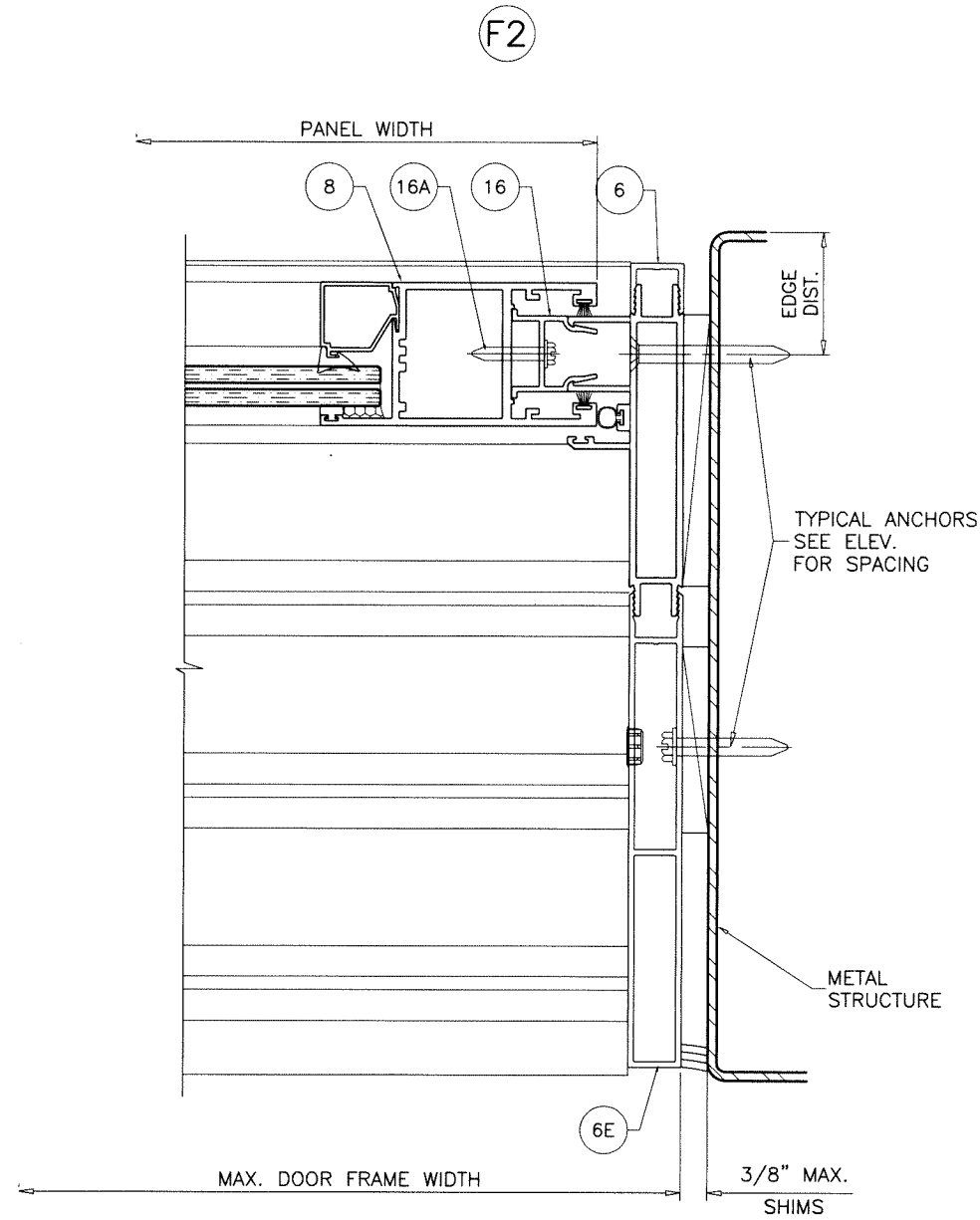
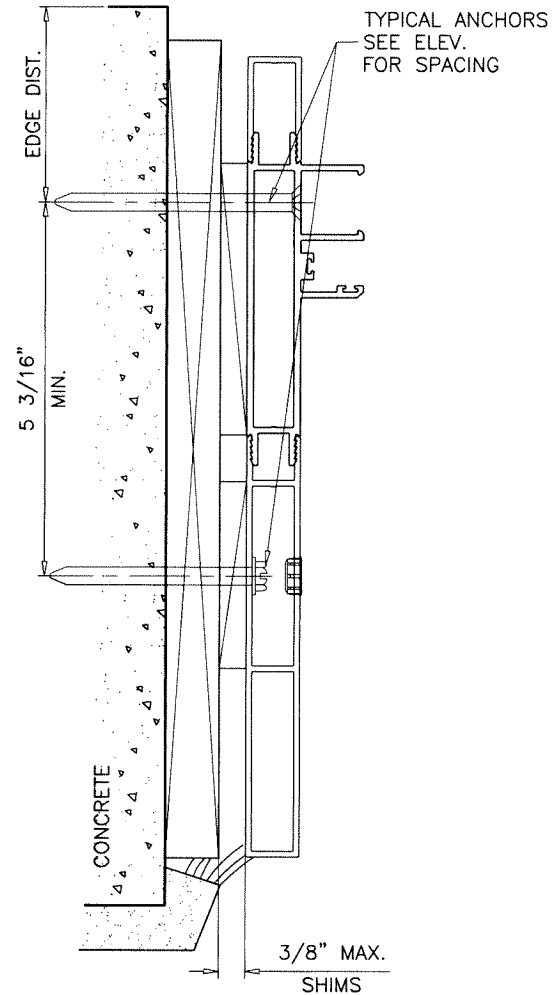
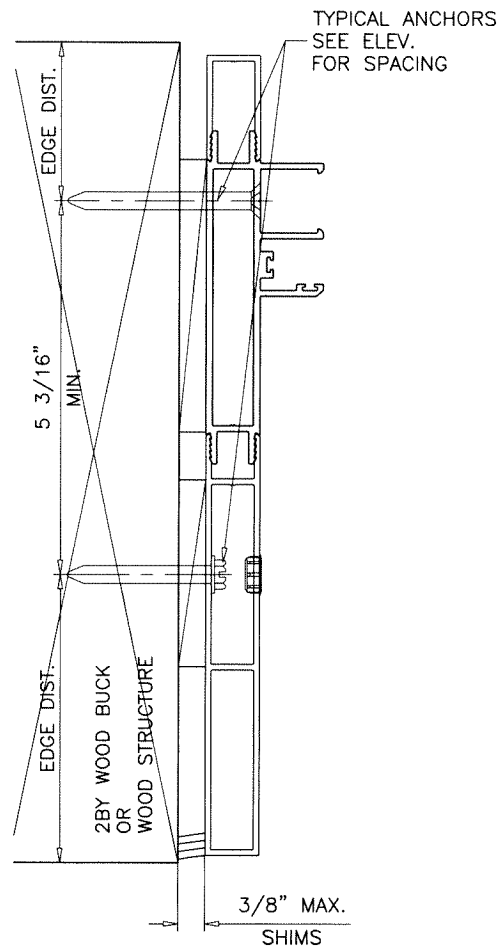
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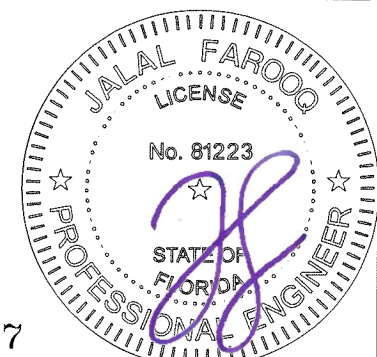
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# 4 TRACK FRAMES



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MIAMI, FLORIDA 33173  
TEL. (305) 264-8100 FAX. (305) 262-6978  
(C.A.N. 3538)

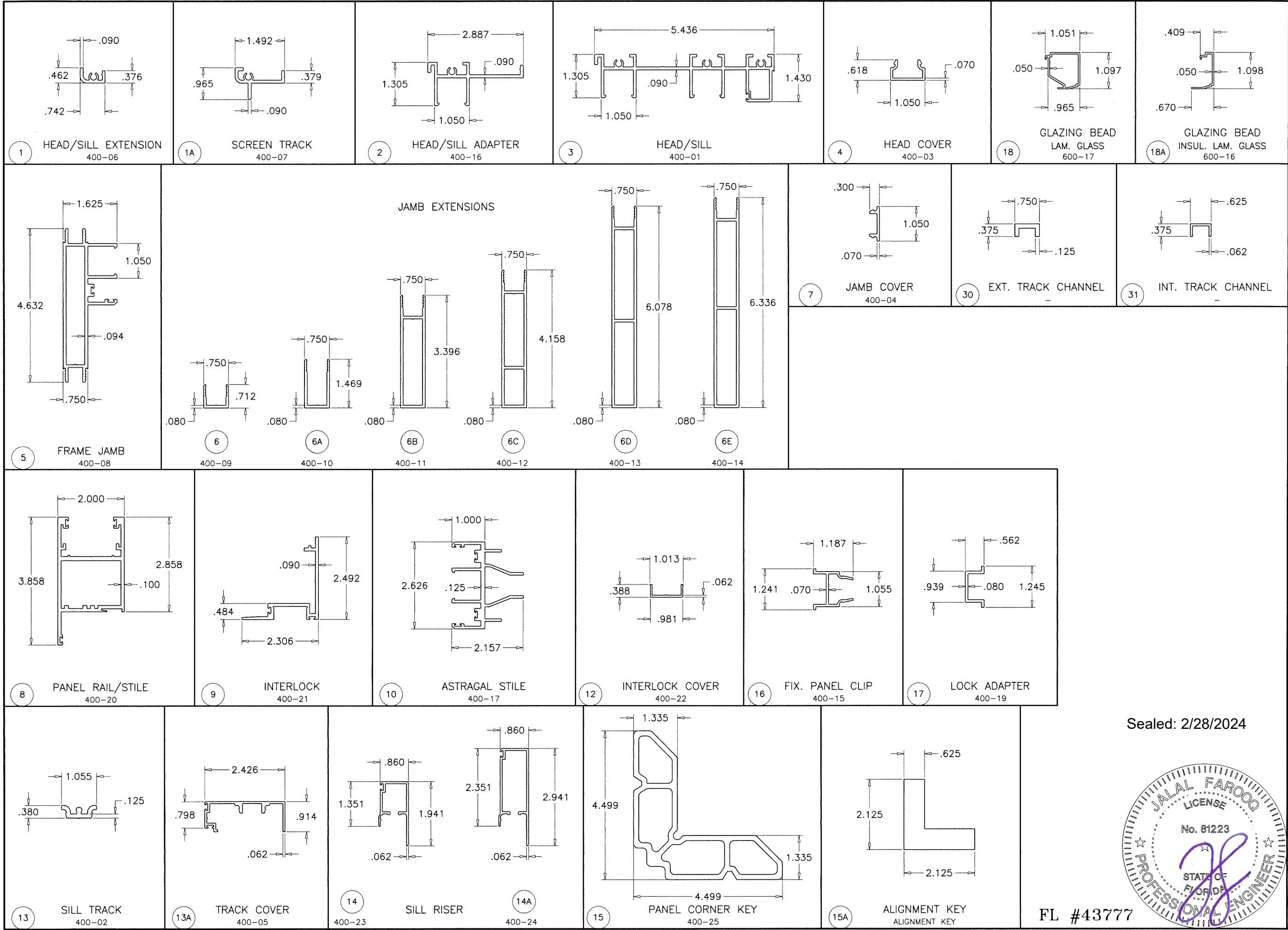
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chk. by:

drawing no.  
**23-40F**

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**af c**

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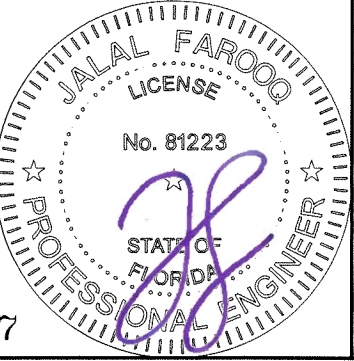
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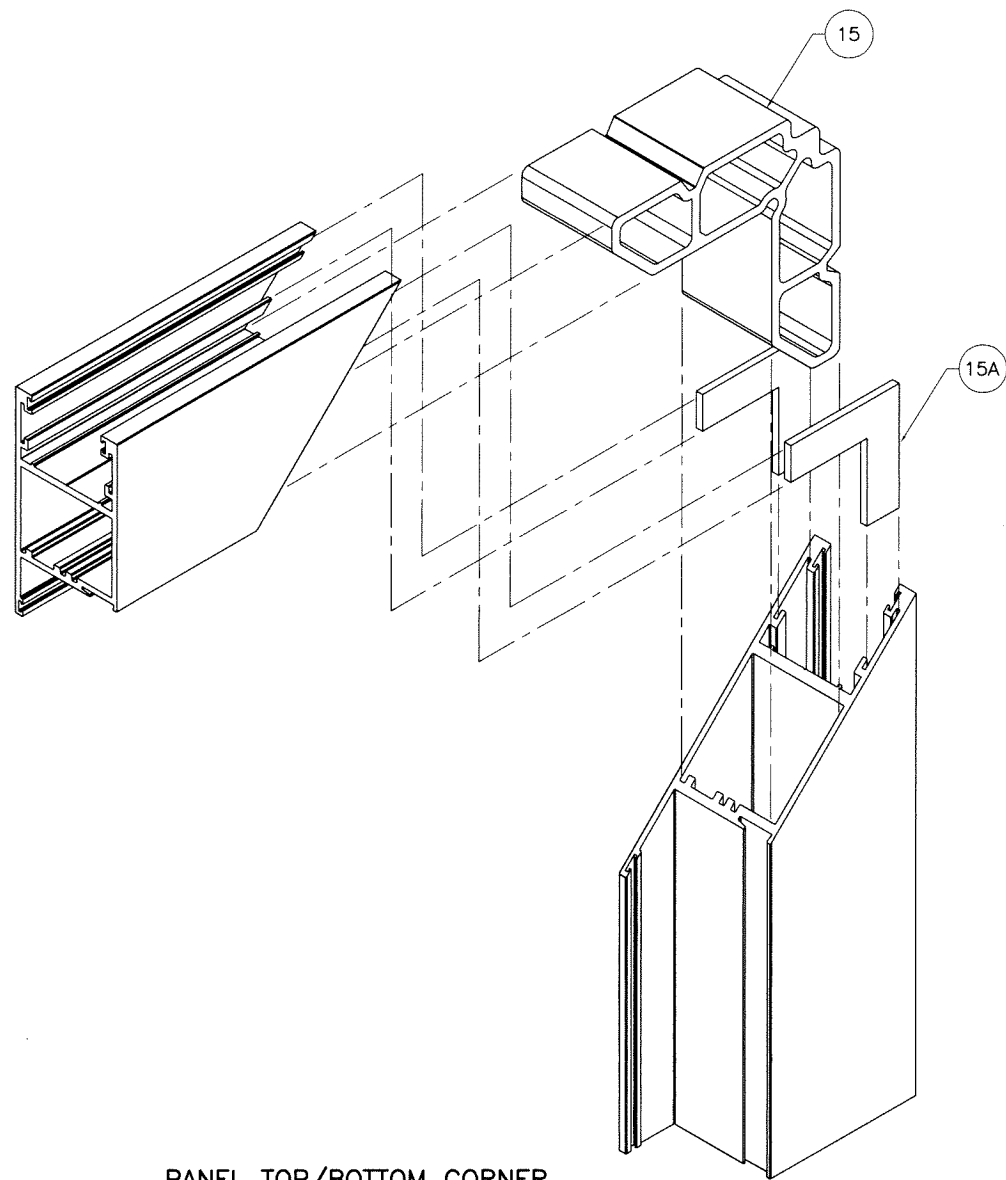
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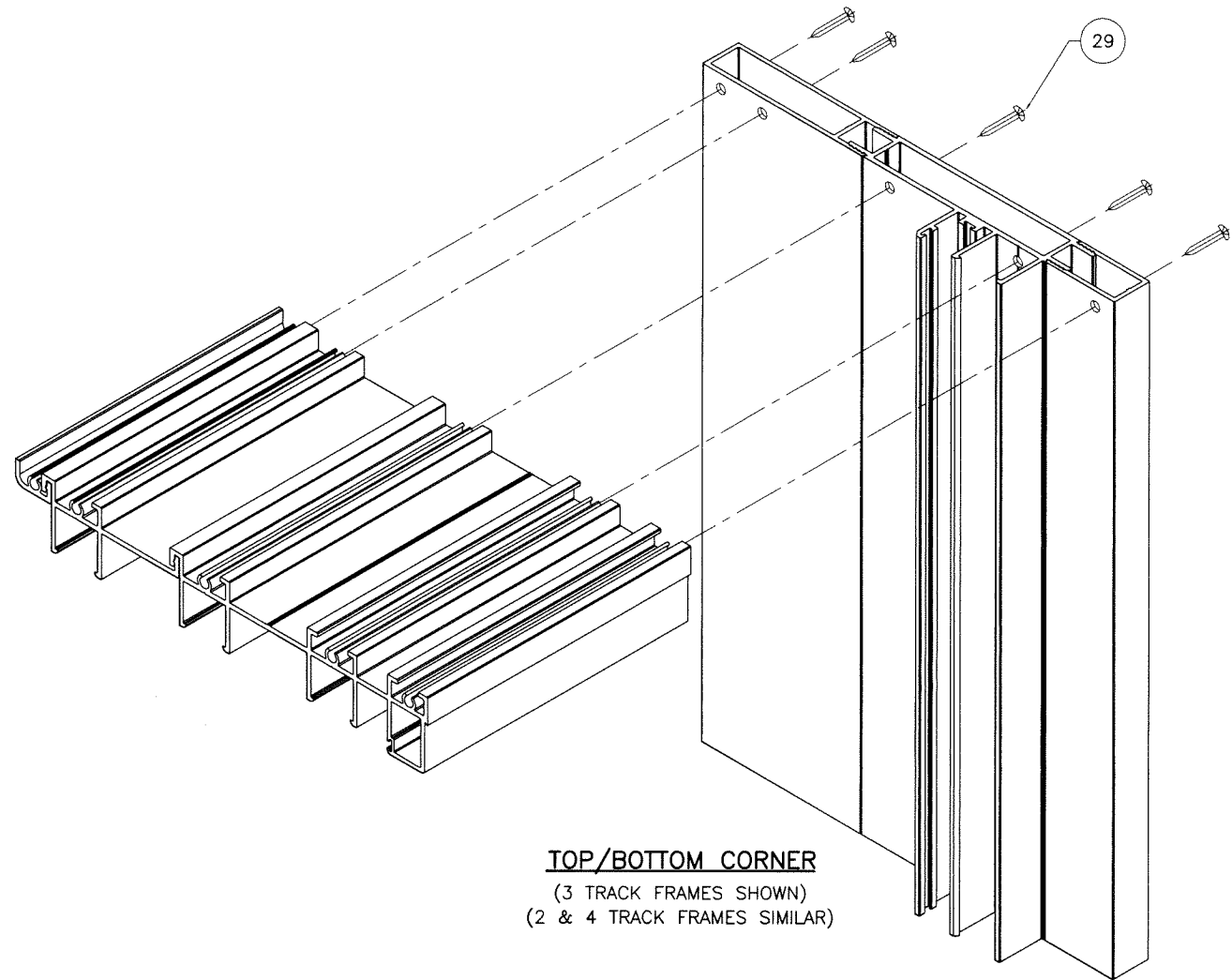
FL #43777



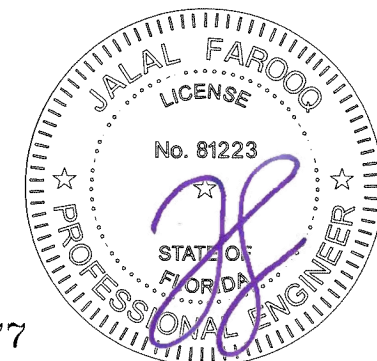




PANEL TOP/BOTTOM CORNER



TOP/BOTTOM CORNER  
(3 TRACK FRAMES SHOWN)  
(2 & 4 TRACK FRAMES SIMILAR)



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SERIES EC400 ALUM SLIDING GLASS DOOR (L.M.I.) <b>Eurocraft Industries Inc.</b> 7905 N.W. 77th Ave. Medley, FL. 33166 Phone: (305) 713-1871 Fax: (305) 713-1872	
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