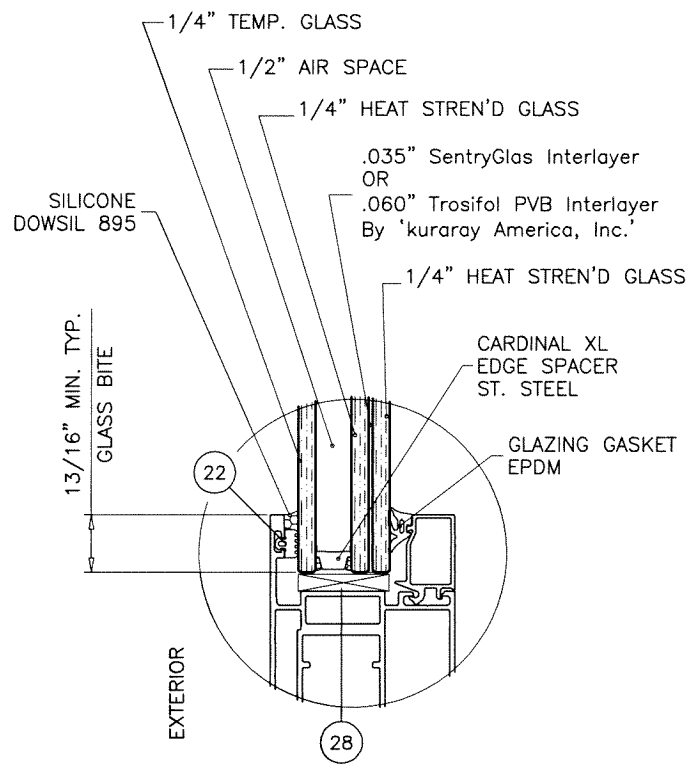




GLAZING DETAIL

1-5/16" OVERALL INSUL. LAM. GLASS

THESE DOORS ARE RATED FOR SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS REQUIRED
FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

ES-LS7035

LIFT & SLIDE ALUMINUM GLASS DOOR (S.M.I.)

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).

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.

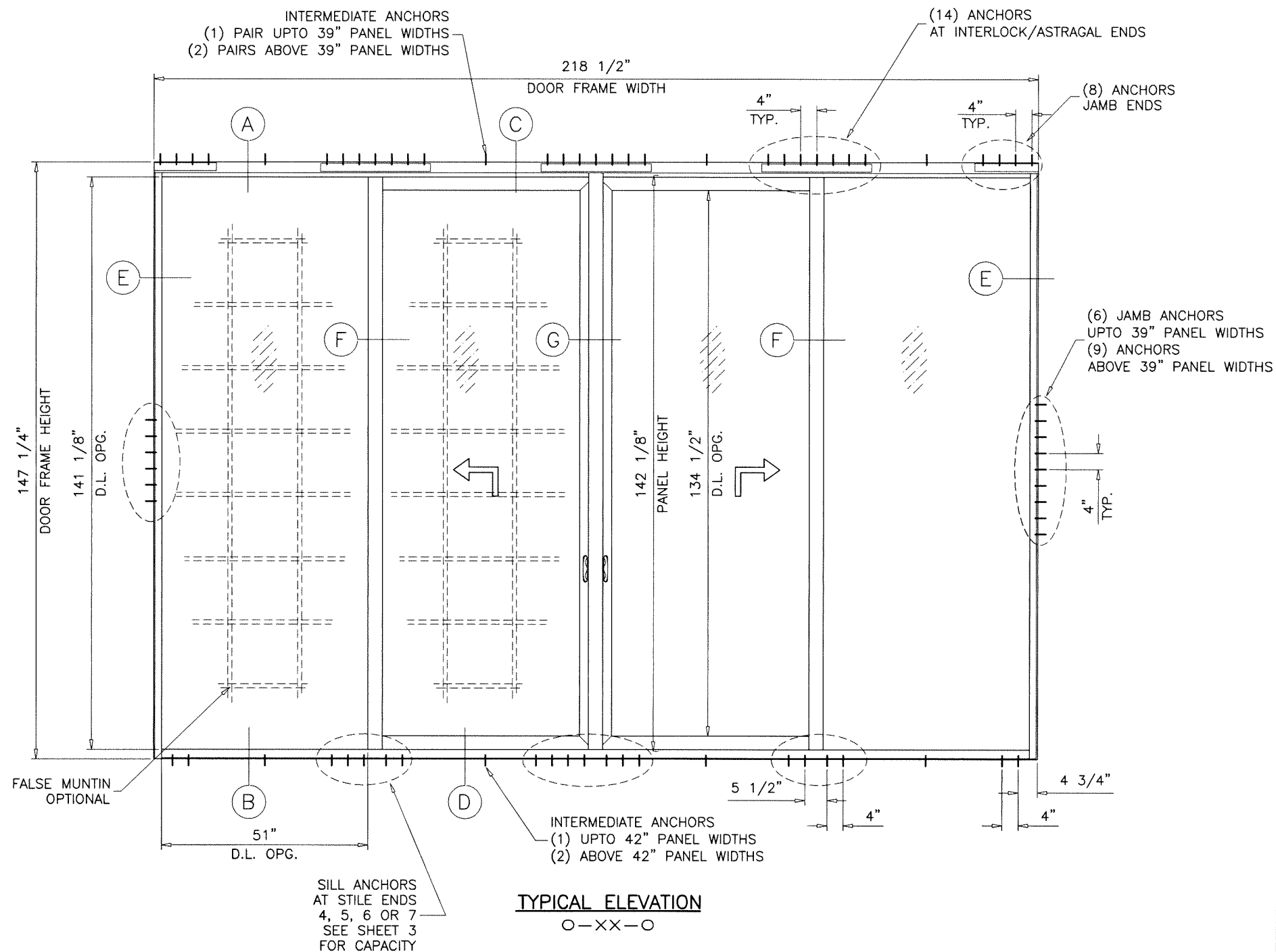
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.



TYPICAL ELEVATION

O-XX-O

INSTRUCTIONS:

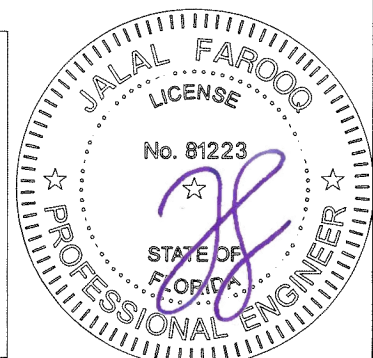
USE CHARTS AS FOLLOWS.

- 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 TABLE ON SHEET 4 FOR TWO, THREE AND FOUR TRACKS DOORS.
- STEP 3** USING CHARTS ON SHEET 3 SELECT SILL ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE FOR TWO TRACKS DOORS ONLY.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO TWO TRACK DOOR SYSTEM. THE VALUE FROM STEP 2 SHALL APPLY TO THREE TRACK DOOR SYSTEM.

- 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.

Sealed: 6/20/2025

FL #22232



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W16-84ES

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

no.	date	description	by
A	03.08.18	UPDATED TO 2017 FBC	FBC
B	12.07.20	UPDATED TO 2020 FBC	FBC
C	09.27.23	UPDATED TO 2023 FBC	FBC
D	02.18.25	PRODUCT SERIES REVISED	
E	06.19.25	ALT. JAMB ADDED	

date: 03-23-17

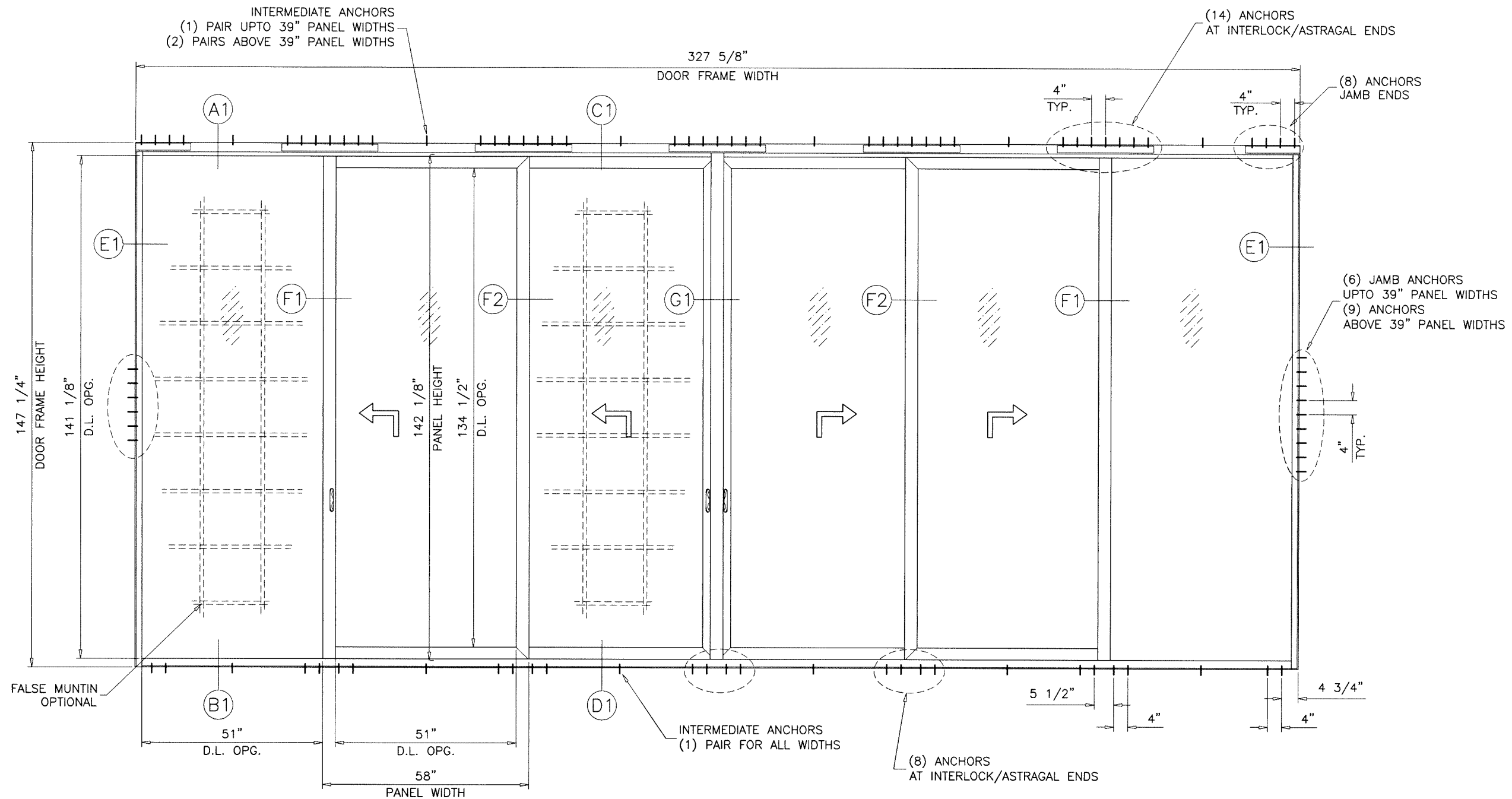
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chk. by:

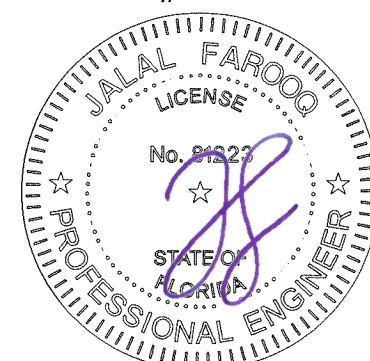
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sheet 1 of 12



TYPICAL ELEVATION
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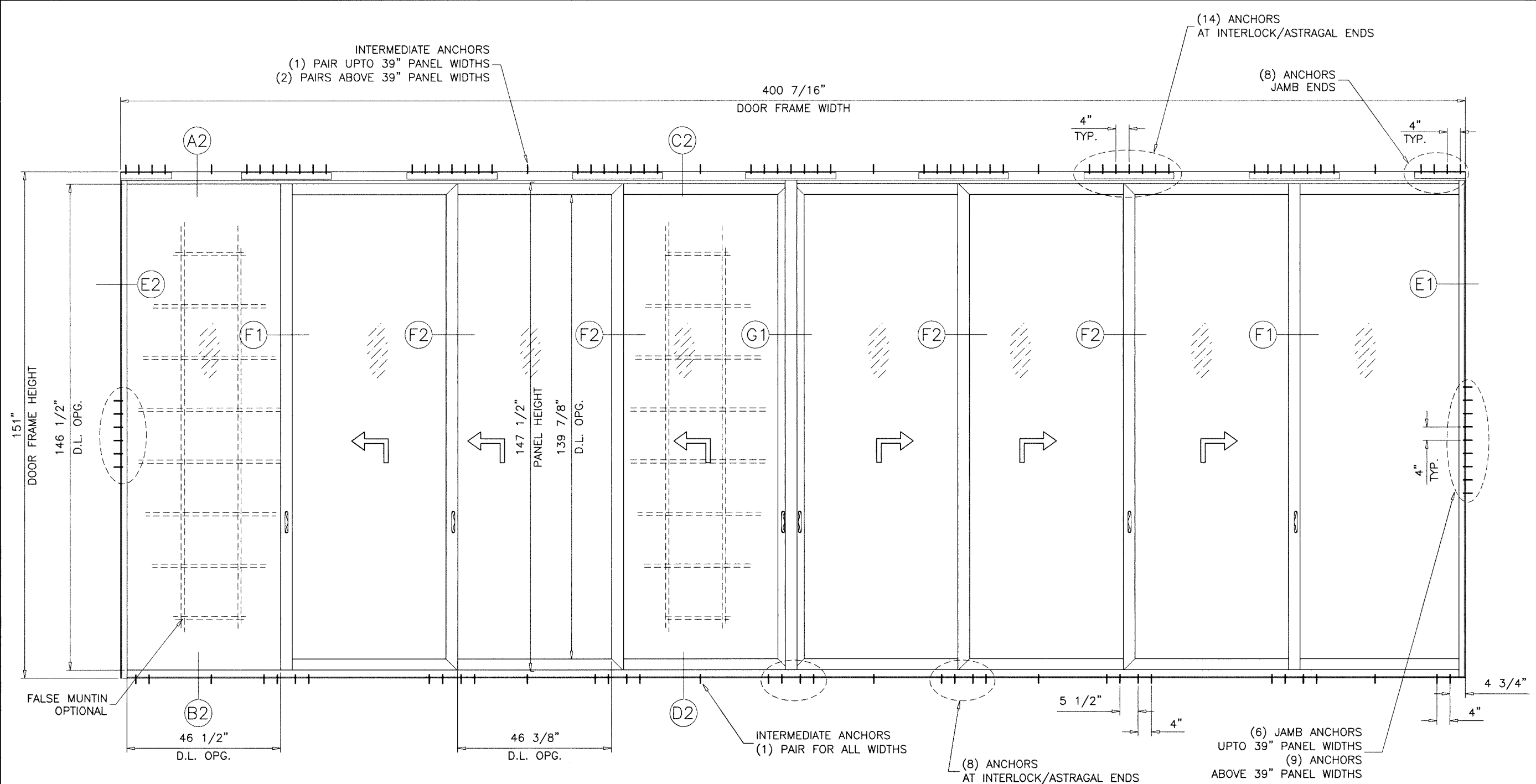
ES-LS7035 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

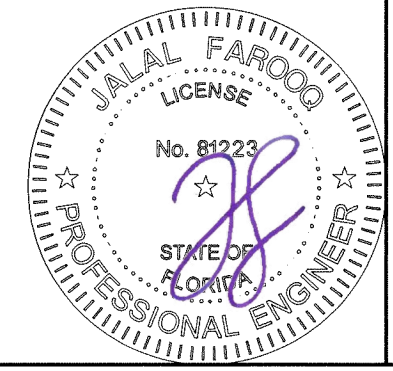
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sheet 2 of 12



TYPICAL ELEVATION
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Sealed: 6/20/2025

af c
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drawing no.
W16-84
sheet 3 of 12

GLASS LOAD CAPACITY - PSF (2, 3 & 4 TRACK DOORS)			
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	1-5/16" OVERALL INSUL. LAM. GLASS	
		EXT.(+)	INT.(-)
30	96	77.0	122.0
36		77.0	122.0
42		77.0	122.0
48		77.0	122.0
54		77.0	122.0
60		70.1	111.1
30	108	77.0	122.0
36		77.0	122.0
42		77.0	122.0
48		77.0	122.0
54		77.0	122.0
60		70.1	111.1
30	120	77.0	122.0
36		77.0	122.0
42		77.0	122.0
48		77.0	122.0
54		77.0	121.0
60		70.1	108.0
30	132	77.0	122.0
36		77.0	122.0
42		77.0	122.0
48		77.0	122.0
54		77.0	112.0
60		70.1	100.0
30	144	77.0	122.0
36		77.0	122.0
42		77.0	122.0
48		77.0	122.0
54		77.0	106.0
30	147-1/4	77.0	122.0
36		77.0	122.0
42		77.0	122.0
48		77.0	122.0
54		77.0	105.0

DOOR HEIGHT AND WIDTH SIZE MUST COMPLY
EGRESS REQUIREMENTS PER FBC AS REQUIRED.

SILL ANCHOR LOAD CAPACITY - PSF (2 TRACK DOORS ONLY)					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	4 ANCHORS AT MTG. STILE ENDS	5 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	7 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	96	122.0	122.0	122.0	122.0
36		122.0	122.0	122.0	122.0
42		122.0	122.0	122.0	122.0
48		122.0	122.0	122.0	122.0
54		122.0	122.0	122.0	122.0
60		121.2	122.0	122.0	122.0
30	108	122.0	122.0	122.0	122.0
36		122.0	122.0	122.0	122.0
42		122.0	122.0	122.0	122.0
48		119.0	122.0	122.0	122.0
54		109.7	122.0	122.0	122.0
60		102.5	122.0	122.0	122.0
30	120	122.0	122.0	122.0	122.0
36		122.0	122.0	122.0	122.0
42		115.4	122.0	122.0	122.0
48		104.2	122.0	122.0	122.0
54		95.6	119.5	122.0	122.0
60		88.9	111.1	122.0	122.0
30	132	122.0	122.0	122.0	122.0
36		116.9	122.0	122.0	122.0
42		102.9	122.0	122.0	122.0
48		92.6	115.7	122.0	122.0
54		84.6	105.8	122.0	122.0
60		78.4	98.0	117.6	122.0
30	144	122.0	122.0	122.0	122.0
36		105.8	122.0	122.0	122.0
42		92.9	116.1	122.0	122.0
48		83.3	104.2	122.0	122.0
54		76.0	95.0	113.9	122.0
30	147-1/4	121.0	122.0	122.0	122.0
36		103.1	122.0	122.0	122.0
42		90.5	113.1	122.0	122.0
48		81.1	101.4	121.7	122.0
54		73.9	92.4	110.9	122.0

HEAD ANCHORS:
14 ANCHORS REQD. AT FRAME HEAD MTG. STILE LOCATIONS
MAX. LOAD CAPACITY = 122 PSF

Sealed: 6/20/2025



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

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

afcc

AL-FAROOQ CORPORATION
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(C.A.N. 3538)

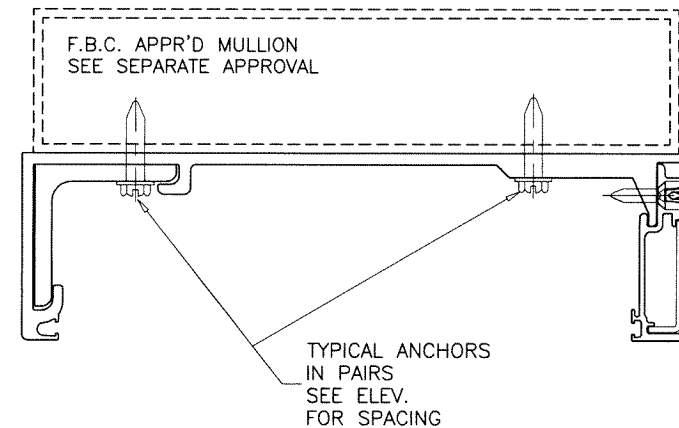
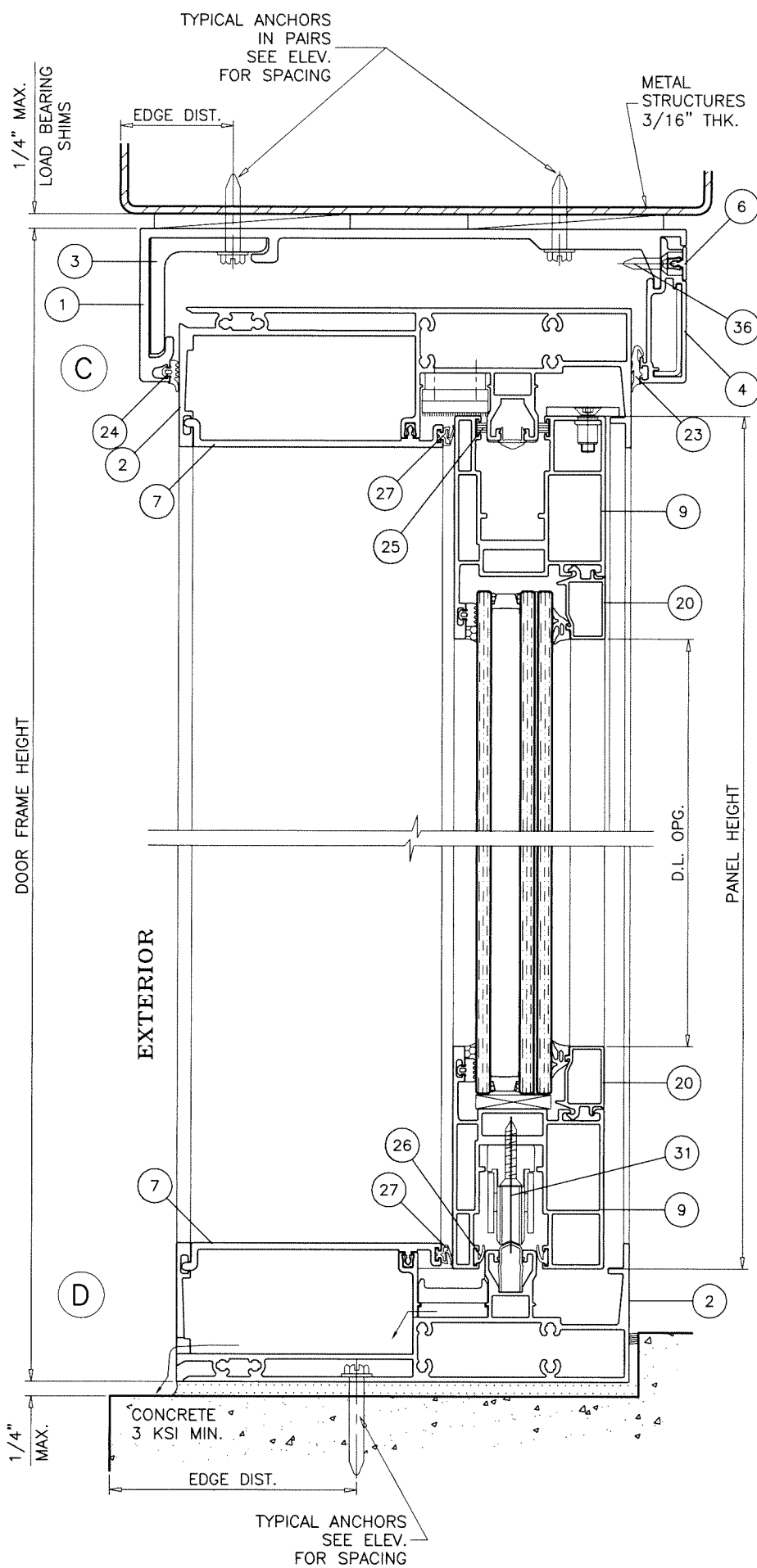
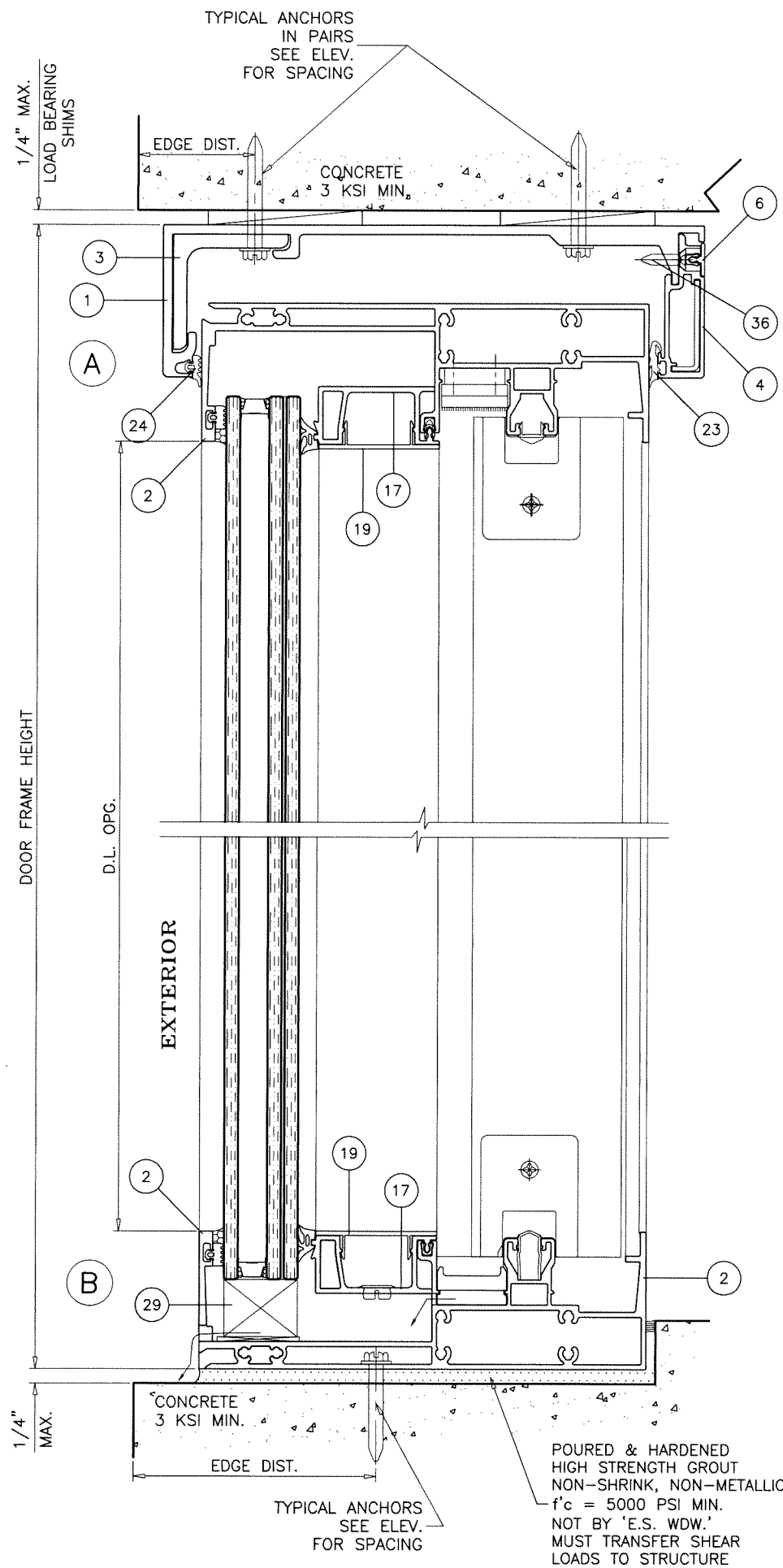
ES-LS7035 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

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date: 03-23-17
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dr. by: TARIQ
chk. by:

drawing no.
W16-84
sheet 4 of 12



DOOR OPENINGS AND METAL STRUCTURE NOT BY 'E.S. WDW.' MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

DIRECTLY INTO CONCRETE OR BLOCKS

1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

1-3/4" MIN. EMBED INTO BLOCKS (JAMBS)

1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

INTO F.B.C. APPROVED MULLIONS

OR

INTO METAL STRUCTURES (HEAD/JAMBS)

ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)

STEEL: 3/16" THK. MIN. (Fy = 36 KSI MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND BLOCKS = 2-1/2" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.

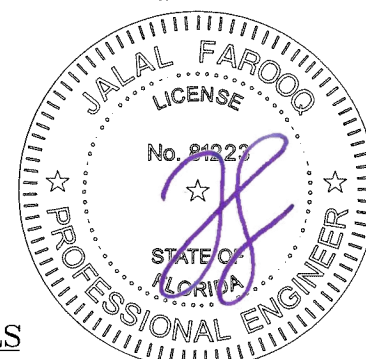
C-90 GROUT FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.

WEEPHOLES:

W1 = 1/4" X 1" LONG WEEP HOLES AT 6" FROM EACH END AND 12" O.C.

W2 = 1-1/2" LONG WEEP NOTCH AT 6" FROM EACH END AND 12" O.C.

FL #22232



Sealed: 6/20/2025

TWO (2) TRACK DOOR DETAILS

af c
AL-FAROOQ CORPORATION
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 COMP-ANL W16-84ES

ES-LS7035 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

E.S. WINDOWS, LLC

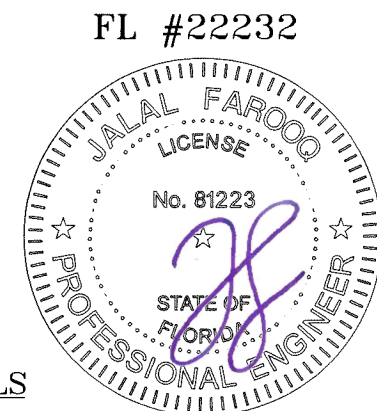
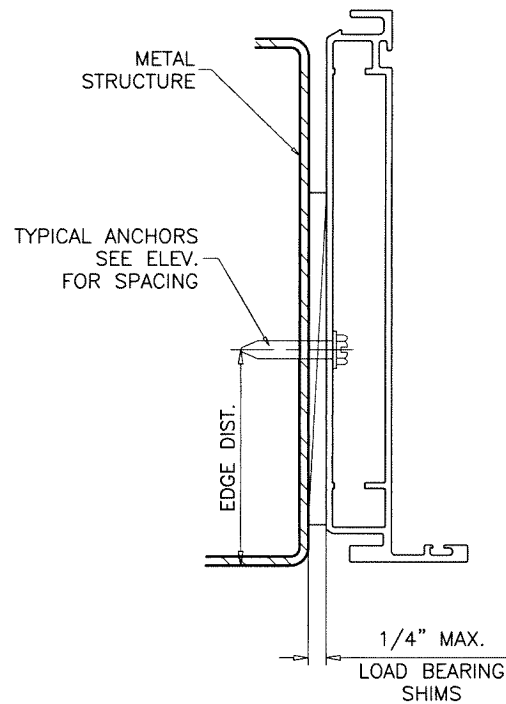
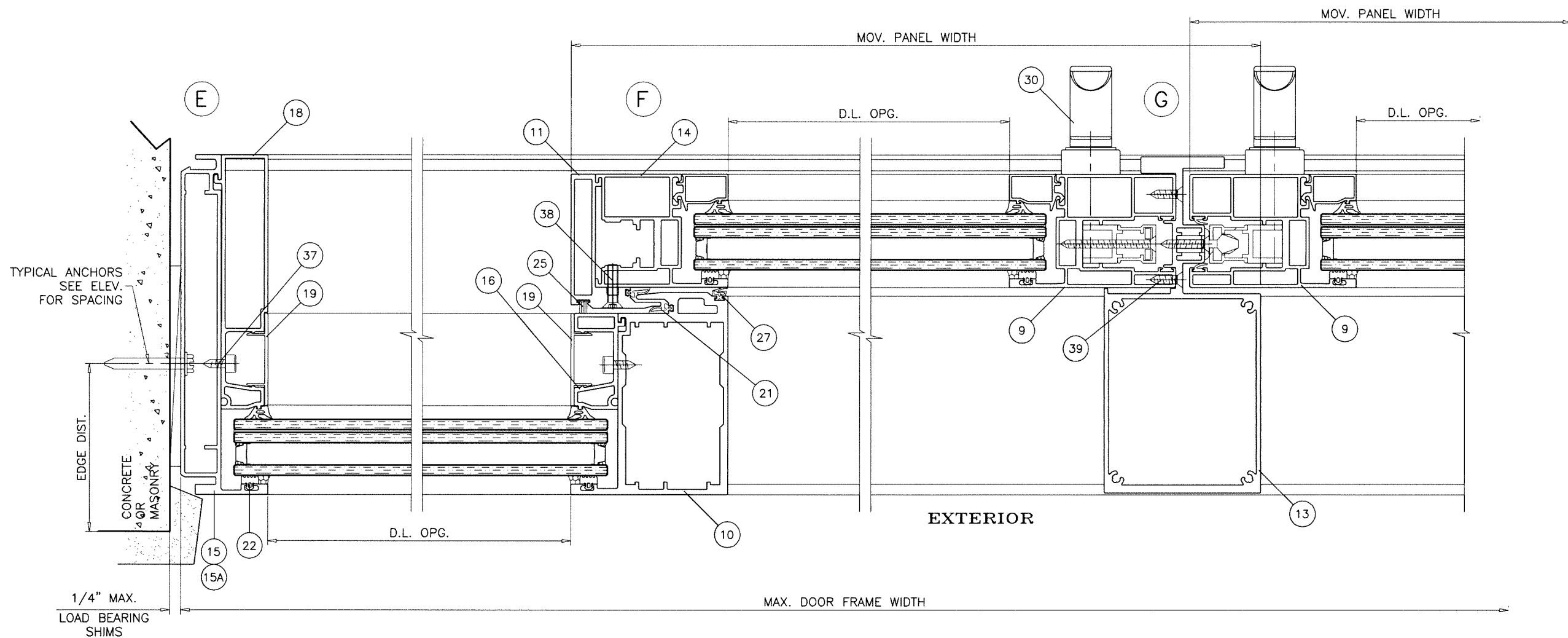
3550 N.W. 49 STREET

MIAMI, FL. 33142

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W16-84
 sheet 5 of 12



Sealed: 6/20/2025
TWO (2) TRACK DOOR DETAILS

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FL #22232

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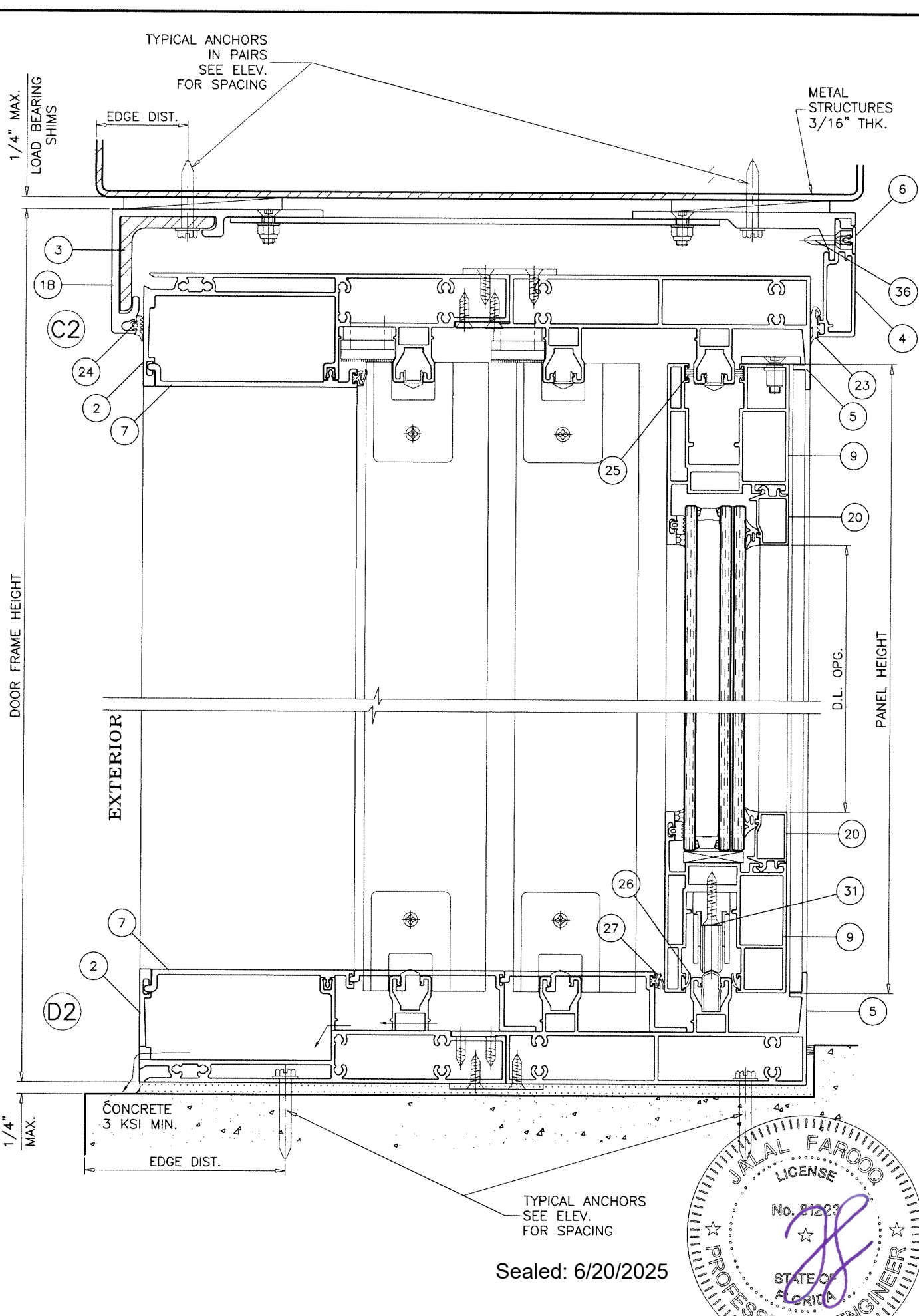
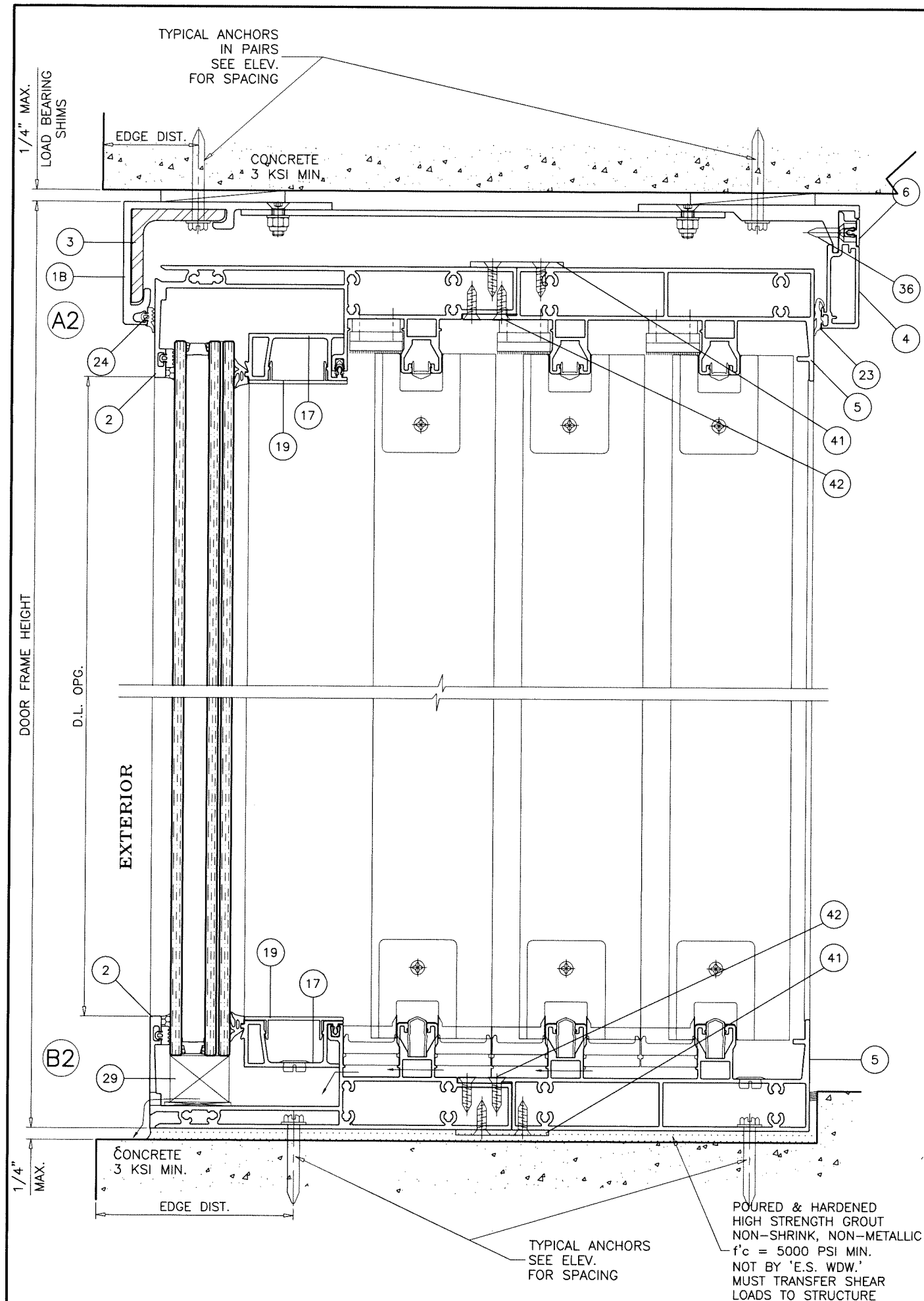
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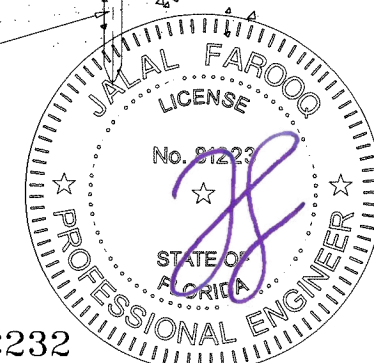
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FOUR (4) TRACK DOOR DETAILS

FL #22232

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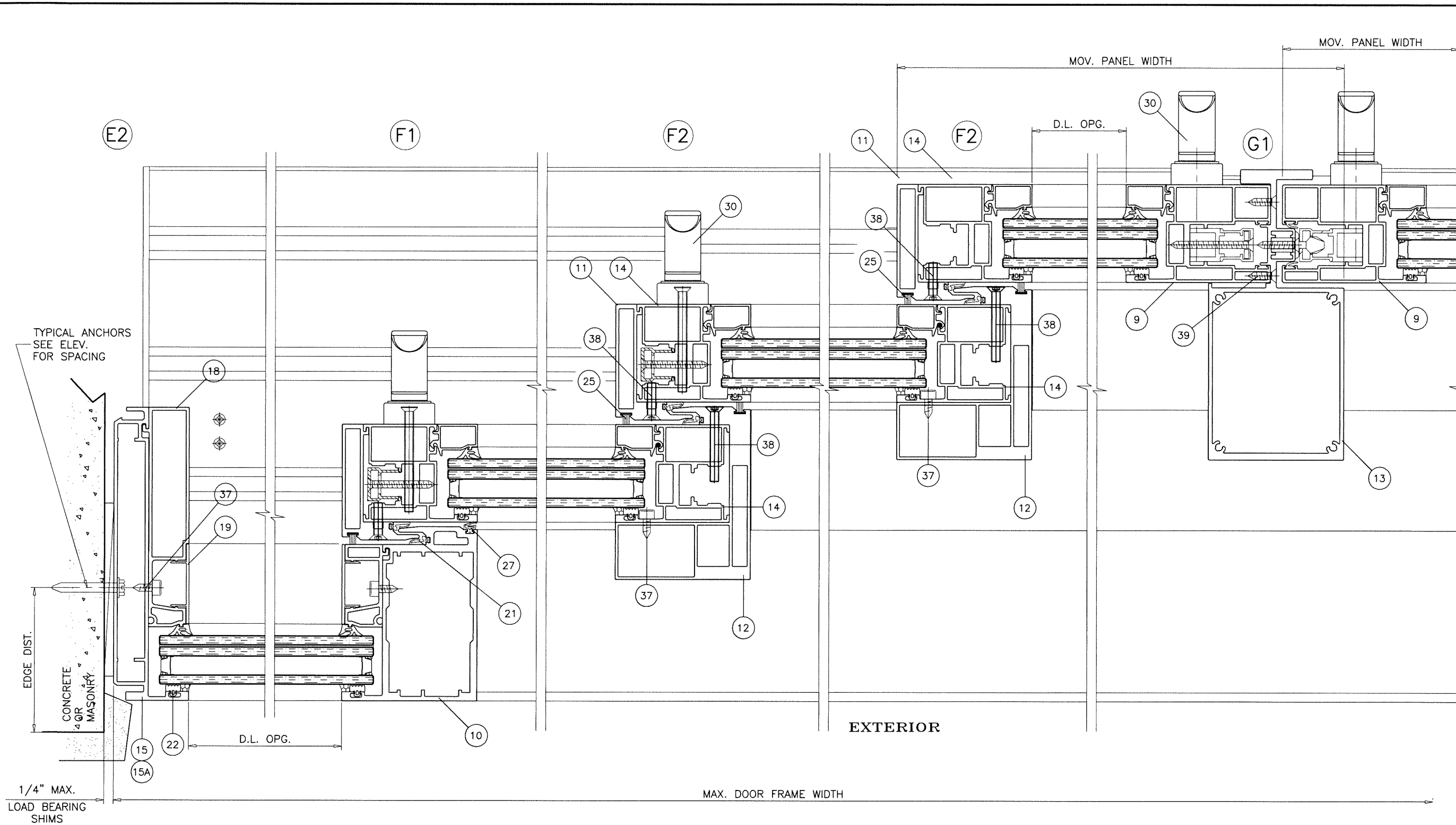
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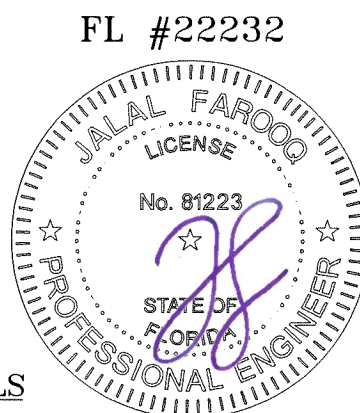
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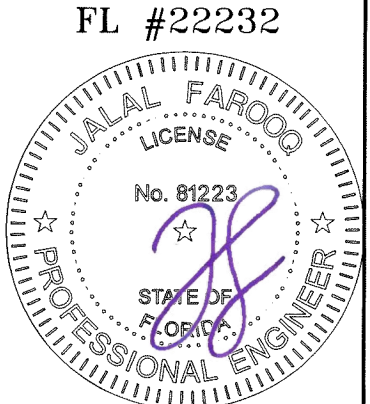
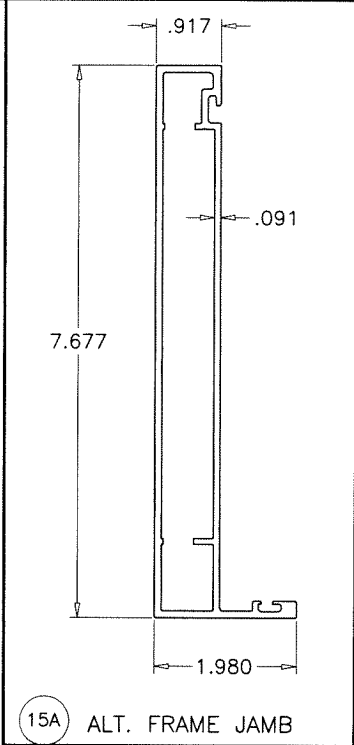
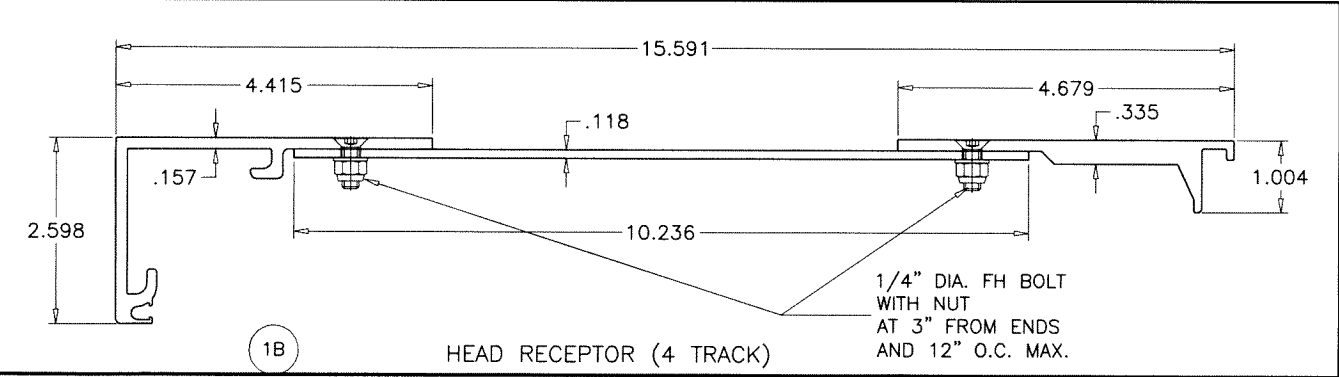
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sheet 10 of 12

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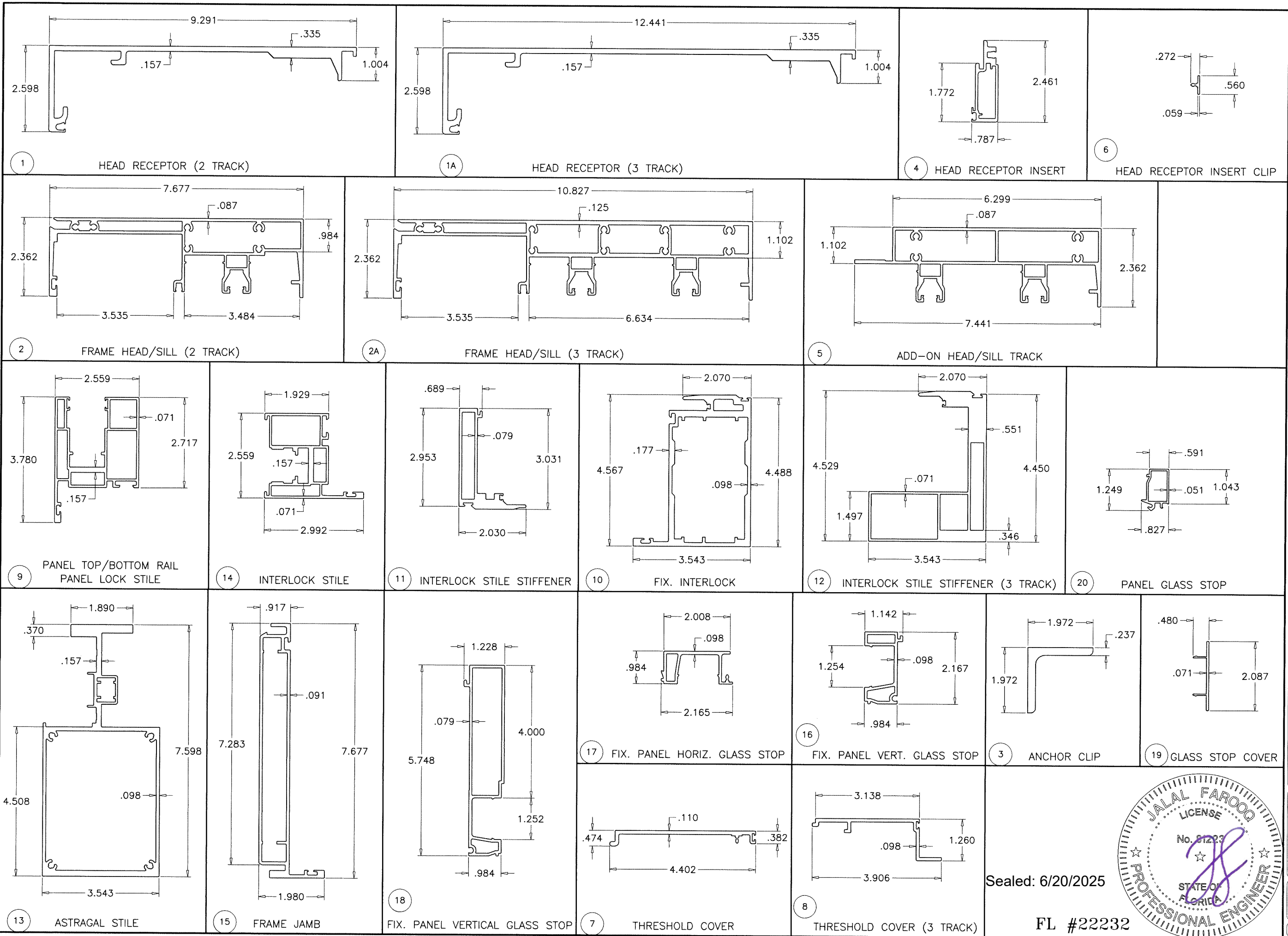
FOUR (4) TRACK DOOR DETAILS



ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES-LS7035-005	HEAD RECEPTOR (2 TRACK)	6063-T6	-
1A	ES-LS7035-059	HEAD RECEPTOR (3 TRACK)	6063-T6	-
1B	-	HEAD RECEPTOR (4 TRACK)	6063-T6	-
2	ES-LS7035-008	FRAME HEAD/SILL (2 TRACK)	6005-T5	-
2A	ES-LS7035-062	FRAME HEAD/SILL (3 TRACK)	6063-T6	-
3	-	ANCHOR CLIP, 26" LONG AT MTG. STILE, 18" LONG AT JAMBS	6063-T6	-
4	ES-LS7035-009	HEAD RECEPTOR INSERT	6063-T6	-
5	-	ADD-ON HEAD/SILL TRACK	6063-T6	-
6	ES-LS7035-019	HEAD RECEPTOR INSERT CLIP	6063-T6	-
7	ES-LS7035-023	THRESHOLD COVER	6063-T6	-
8	ES-LS7035-024	THRESHOLD COVER (3 TRACK)	6063-T6	-
9	ES-LS7035-018	PANEL TOP/BOTTOM RAIL, LOCK STILE	6063-T6	-
10	ES-LS7035-010	FIXED INTERLOCK	6063-T6	-
11	-	INTERLOCK STILE STIFFENER	6063-T6	-
12	ES-LS7035-012	INTERLOCK STILE STIFFENER (3 TRACK)	6063-T6	-
13	ES-LS7035-022	ASTRAGAL STILE	6063-T6	-
14	ES-LS7035-017	INTERLOCK STILE	6063-T6	-
15	ES-LS7035-001	FRAME JAMB	6063-T6	-
15A	ES-LS7035-033	ALT. FRAME JAMB	6063-T6	-
16	ES-LS7035-014	FIX. PANEL VERTICAL GLASS STOP	6063-T6	-
17	ES-LS7035-015	FIX. PANEL HORIZONTAL GLASS STOP	6063-T6	-
18	ES-LS7035-016	FRAME JAMB GLASS STOP	6063-T6	-
19	ES-LS7035-020	GLASS STOP COVER	6063-T6	-
20	ES-LS7035-021	PANEL GLASS STOP	6063-T6	-
21	-	INTERLOCK W'STRIPPING	EPDM	DUROMETER 70±5 SHORE A
22	-	GLAZING GASKET (EXTERIOR)	EPDM	DUROMETER 70±5 SHORE A
23	-	HEAD RECEPTOR GASKET (INTERIOR)	EPDM	DUROMETER 70±5 SHORE A
24	-	HEAD RECEPTOR GASKET (EXTERIOR)	EPDM	DUROMETER 70±5 SHORE A
25	-	PILE W'STRIPPING	WOOL	-
26	-	BOTTOM RAIL LEAF W'STRIPPING	EPDM	DUROMETER 70±5 SHORE A
27	-	LEAF W'STRIPPING AT COVER	EPDM	DUROMETER 70±5 SHORE A
28	-	SETTING BLOCKS AT 1/4 POINTS (1-1/4" X 1-3/16" X 1/4")	EPDM	DUROMETER 80±5 SHORE A
29	-	SETTING BLOCKS AT 1/4 POINTS (1-1/4" X 1-3/16" X 1-1/16")	EPDM	DUROMETER 80±5 SHORE A
30	-	DOOR HANDLE	-	-
31	-	ROLLER ASSEMBLY	-	-
32	-	LIFT AND SLIDE HARDWARE	-	-
33	-	-	-	-
34	-	PANEL ASSEMBLY FASTENERS	-	-
35	-	FRAME ASSEMBLY FASTENERS	-	-
36	-	RECEPTOR INSERT FASTENERS, AT 6" FROM ENDS & 12" O.C.	-	-
37	1/2" X 1"	GLASS STOP FASTENERS, AT 6" FROM ENDS & 12" O.C.	-	-
38	-	INTERLOCK REINF. FASTENERS	-	-
39	-	ASTRAGAL STILE FASTENERS	-	-
40	-	-	-	-
41	-	ADD-ON TRACK ATTACHMENT PLATE	-	-
42	-	ADD-ON TRACK PLATE FASTENERS	-	-



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ES-LS7035 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)	
E.S. WINDOWS, LLC 3550 N.W. 49 STREET MIAMI, FL. 33142 TEL. (305) 638-5151 FAX. (305) 638-5158	
revisions:	
no	date
by	description
date:	03-23-17
scale:	3/8" = 1"
dr. by:	TARIQ
chk. by:	
drawing no.	W16-84
sheet	11 of 12



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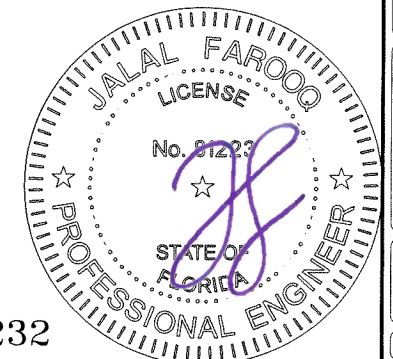
ES-LS7035 LIFT & SLIDE ALUM GLASS DOOR (S.M.I.)

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Sealed: 6/20/2025

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