

DAYLITE OPENING WIDTH:
PANEL WIDTH - 5.688"

DAYLITE OPENING HEIGHT:
PANEL HEIGHT - 5.813"

PANEL HEIGHT = DOOR FRAME HEIGHT - 1.250"

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

SERIES ES-EL400 (WET GLAZED) ALUMINUM SLIDING GLASS DOOR

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.

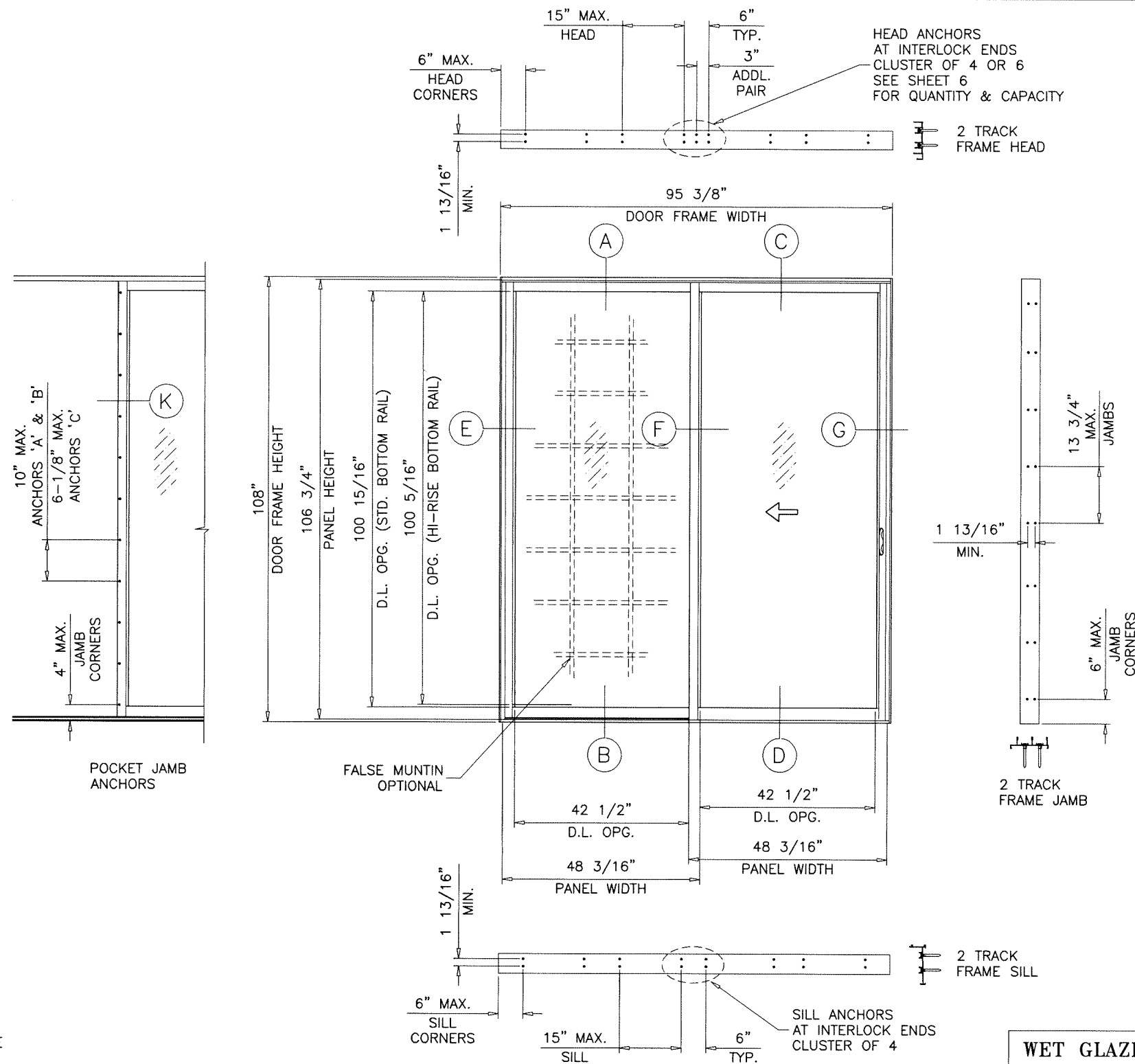
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.



TYPICAL ELEVATION

OX

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FL #22645

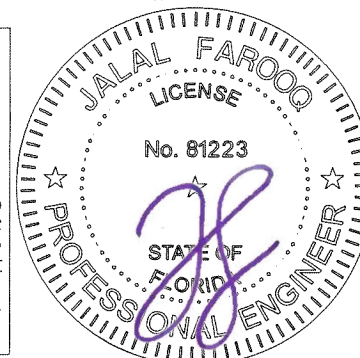
INSTRUCTIONS:

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 5 FOR THE REINFORCING OPTION USED.
- STEP 3** USING CHARTS ON SHEET 6 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE 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.

WET GLAZED
LARGE MISSILE IMPACT



af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\24-10F-ES

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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

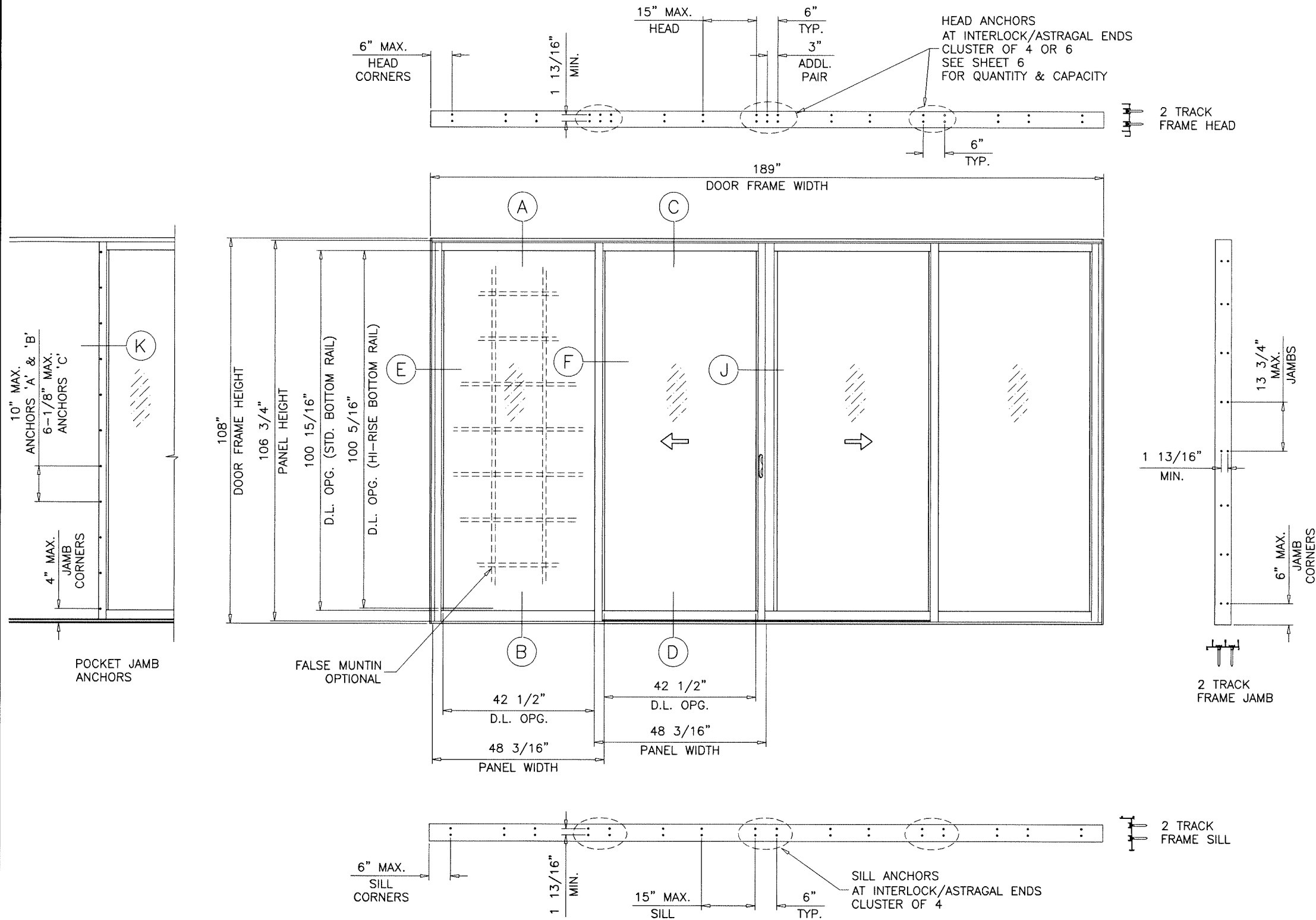
revisions:	no	date	by	description
	A	08.14.25		NON WATER SILL OPTIONS ADDED
	B	11.11.25		HI-RISE BOTTOM RAIL ADDED

date:	03-14-24
scale:	3/8"=1'-0"
dr. by:	TARIQ
chk. by:	

drawing no.

24-10F

sheet 1 of 23



TYPICAL ELEVATION
OX-XO



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COMP-ANL 24-10F-ES

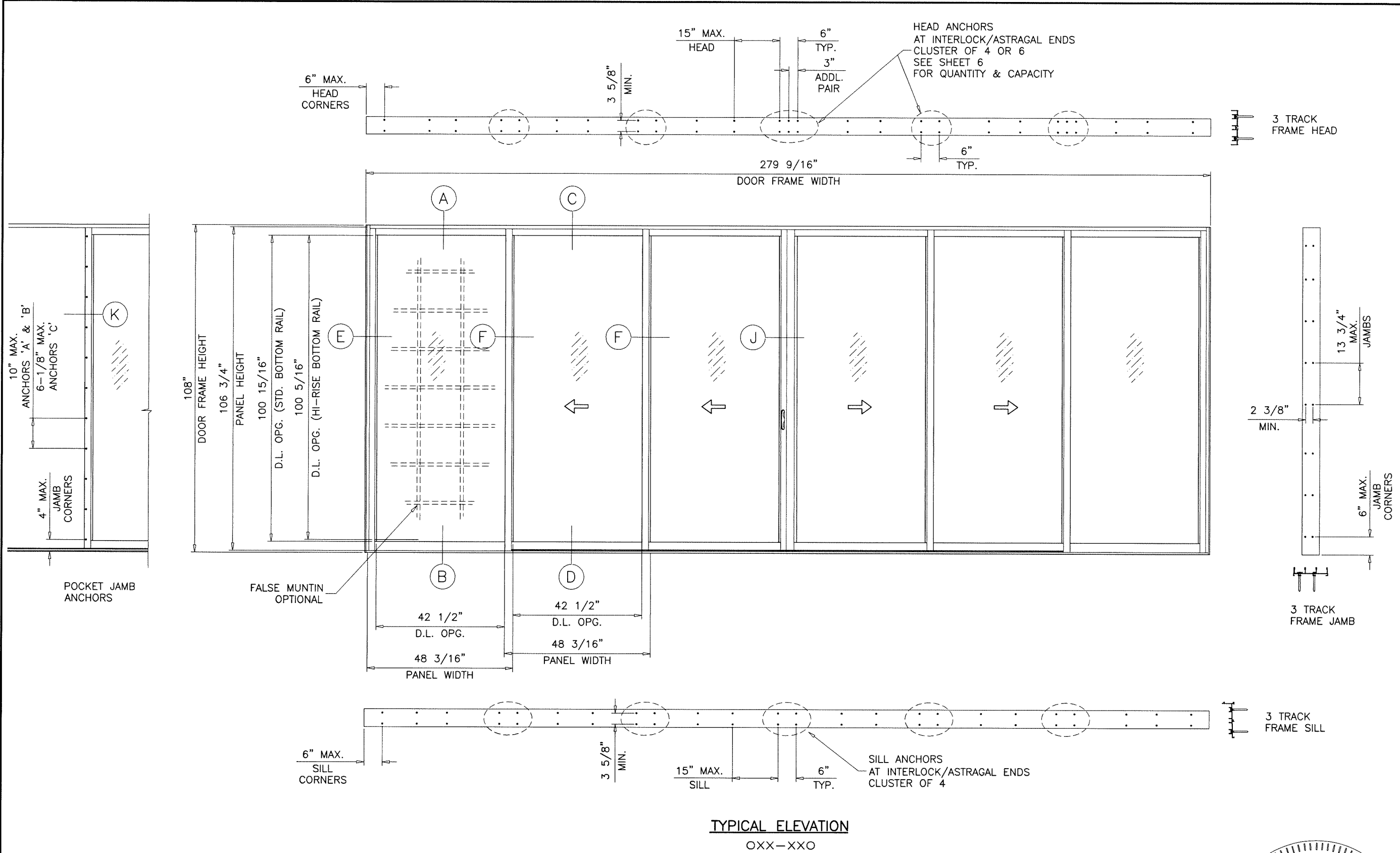
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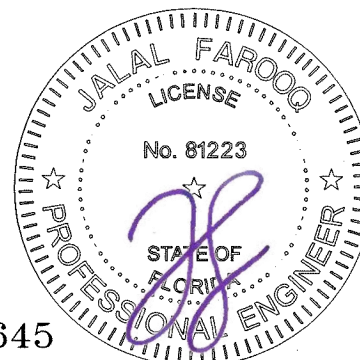
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date: 03-14-24
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24-10F
sheet 2 of 23



TYPICAL ELEVATION
OXX-XXO



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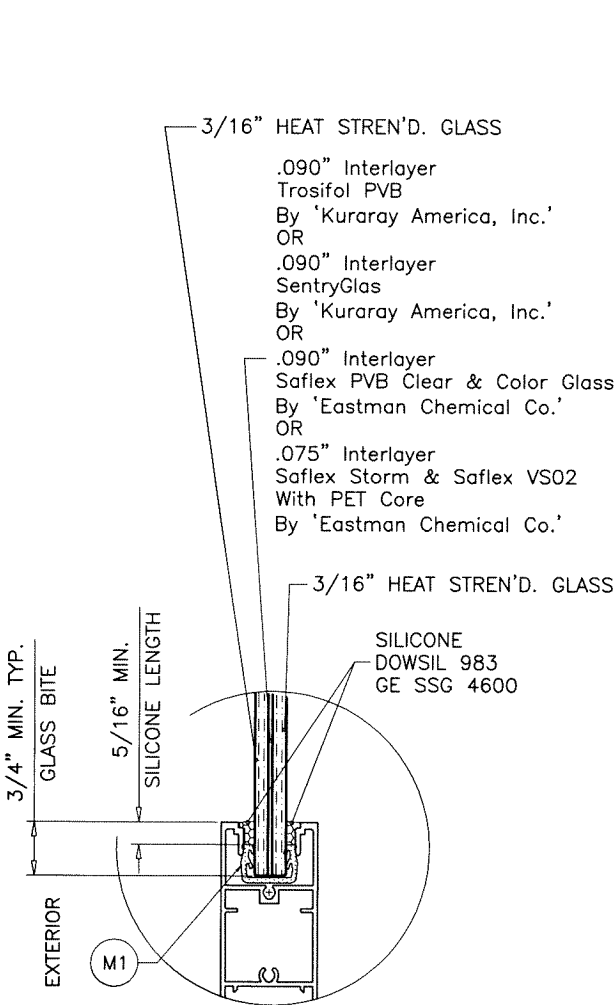
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scale: 3/8" = 1'-0"
dr. by: TARIQ
chk. by:

drawing no.
24-10F
sheet 3 of 23

DESIGN LOAD CAPACITY - PSF					
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	INTERLOCK & ASTRAGAL STILES WITHOUT REINF.		INTERLOCK & ASTRAGAL STILES WITH REINF.	
		EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
24	82	60.0	60.0	80.0	80.0
30		60.0	60.0	80.0	80.0
36		60.0	60.0	80.0	80.0
42		60.0	60.0	80.0	80.0
47-1/4		60.0	60.0	80.0	80.0
48		59.1	59.1	78.8	78.8
54	84	52.5	52.5	70.0	70.0
60		-	-	47.3	47.3
24		60.0	60.0	80.0	80.0
30		60.0	60.0	80.0	80.0
36		60.0	60.0	80.0	80.0
42		60.0	60.0	80.0	80.0
47-1/4	90	60.0	60.0	80.0	80.0
48		59.1	59.1	78.8	78.8
54		-	-	52.5	52.5
24		60.0	60.0	80.0	80.0
30		60.0	60.0	80.0	80.0
36		60.0	60.0	80.0	80.0
42	96	60.0	60.0	80.0	80.0
47-1/4		60.0	60.0	80.0	80.0
48		59.1	59.1	59.1	59.1
24	102	-	-	60.0	60.0
30		-	-	60.0	60.0
36		-	-	60.0	60.0
42	108	-	-	60.0	60.0
47-1/4		-	-	60.0	60.0
48		-	-	59.1	59.1
24	108	-	-	60.0	60.0
30		-	-	60.0	60.0
36		-	-	60.0	60.0
42		-	-	60.0	60.0
47-1/4		-	-	60.0	60.0

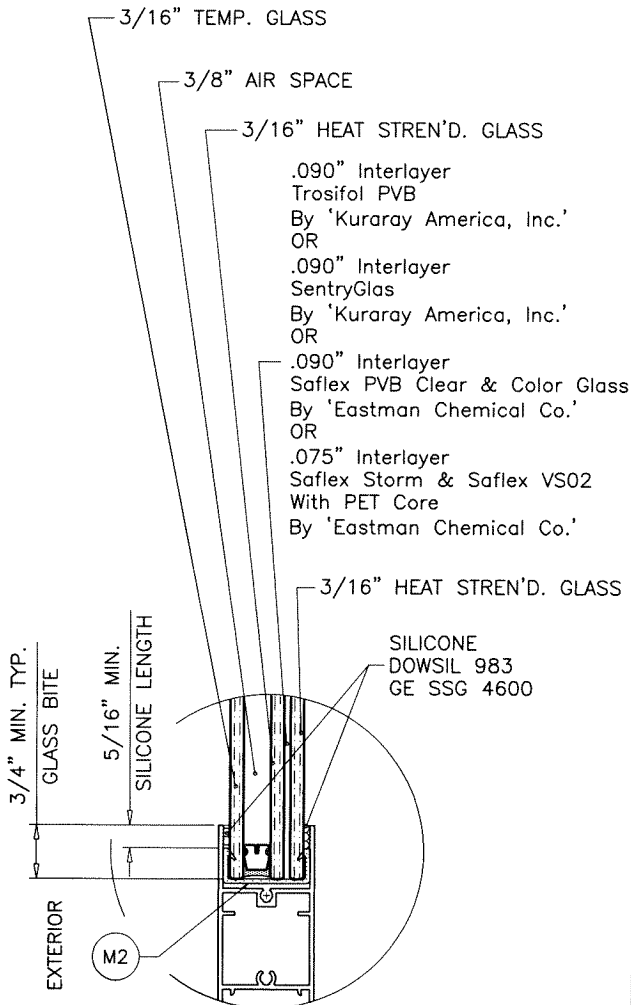
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

ALL EXT.(+) LOADS SHOWN IN CHART ARE FOR DOOR INSTALLATIONS
WHERE WATER INFILTRATION RESISTANCE IS NOT REQUIRED.
FOR DOOR INSTALLATIONS WHERE WATER INFILTRATION RESISTANCE IS
REQUIRED LIMIT EXT.(+) LOADS AS FOLLOWS.
FOR 3-11/16" SILL HEIGHT LIMIT EXT.(+) LOADS TO 80.0 PSF
FOR 3-1/8" SILL HEIGHT LIMIT EXT.(+) LOADS TO 66.6 PSF
FOR 2-3/4" SILL HEIGHT LIMIT EXT.(+) LOADS TO 53.3 PSF
SEE SHEET 14 FOR DETAILS



GLASS TYPE 'A'
7/16" OVERALL LAM. GLASS

NOTE:
FOR SENTRYGLAS INTERLAYER
LIMIT MAX. D.L.O. AREA TO 25.7 SQ. FT.

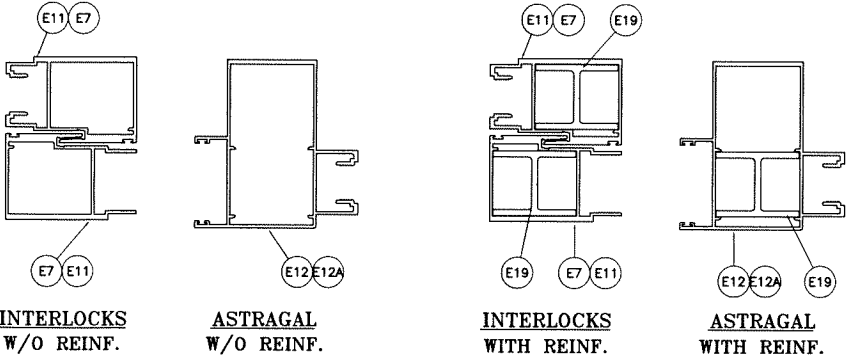


GLASS TYPE 'A1'
1" OVERALL INSUL. LAM. GLASS

NOTE:
FOR SENTRYGLAS INTERLAYER
AND SALEX STORM INTERLAYER
LIMIT MAX. D.L.O. AREA TO 25.7 SQ. FT.

GLAZING OPTIONS

3/8" AIR SPACE CONSISTING OF:
SPACER:
'HELIMA' LOW PROFILE ALUMINUM SPACER
BY 'LINGERMANN GMBH'
AROUND THE PERIMETER OF THE GLASS.
PERIMETER SEALANT:
SILICONE
DOWSIL 791
GE 2000

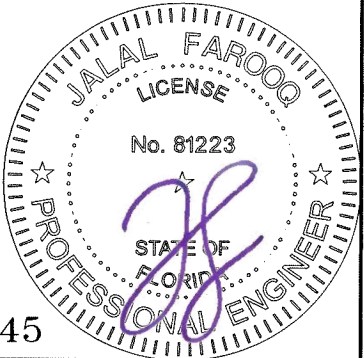


AVERAGE PANEL WIDTH = DOOR FRAME WIDTH / NUMBER OF PANELS

SEE CHART ABOVE FOR DESIGN LOAD CAPACITY OF
DESIRED GLASS SIZE AND REINFORCING TYPES.
SEE CHART ON SHEET 6 FOR HEAD ANCHOR CAPACITY.
LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART
OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.

Sealed: 12/11/2025

FL #22645



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL 24-10F-ES

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revisions:

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scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
24-10F
sheet 5 of 23

HEAD ANCHOR LOAD CAPACITY - PSF									
AVERAGE PANEL WIDTH INCHES	DOOR FRAME HEIGHT INCHES	ANCHOR TYPES 'A' & 'B'						ANCHOR TYPE 'C'	
		1/4" MAX. SHIM		3/8" MAX. SHIM		1/2" MAX. SHIM		3/8" MAX. SHIM	
		4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS	4 ANCHORS AT MTG. STILE ENDS	6 ANCHORS AT MTG. STILE ENDS
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
30	82	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	71.5	80.0	80.0	80.0
47-1/4		80.0	80.0	80.0	80.0	63.6	80.0	80.0	80.0
48		80.0	80.0	80.0	80.0	62.6	80.0	80.0	80.0
54		80.0	80.0	71.6	80.0	55.6	74.2	72.7	80.0
60		72.7	80.0	64.4	80.0	50.1	66.8	65.4	80.0
30	84	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	69.8	80.0	80.0	80.0
47-1/4		80.0	80.0	79.8	80.0	62.1	80.0	80.0	80.0
48		80.0	80.0	78.6	80.0	61.1	80.0	79.8	80.0
54		78.9	80.0	69.9	80.0	54.3	72.4	71.0	80.0
60		71.0	80.0	62.9	80.0	48.9	65.2	63.9	80.0
30	90	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	76.1	80.0	80.0	80.0
42		80.0	80.0	80.0	80.0	65.2	80.0	80.0	80.0
47-1/4		80.0	80.0	74.5	80.0	57.9	77.3	75.7	80.0
48		80.0	80.0	73.4	80.0	57.0	76.1	74.5	80.0
54		73.6	80.0	65.2	80.0	50.7	67.6	66.2	80.0
30	96	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
36		80.0	80.0	80.0	80.0	71.3	80.0	80.0	80.0
42		80.0	80.0	78.6	80.0	61.1	80.0	79.8	80.0
47-1/4		78.9	80.0	69.9	80.0	54.3	72.4	71.0	80.0
48		60.0	60.0	60.0	60.0	53.5	60.0	60.0	60.0
30	102	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42		60.0	60.0	60.0	60.0	57.5	60.0	60.0	60.0
47-1/4		60.0	60.0	60.0	60.0	51.1	60.0	60.0	60.0
48		60.0	60.0	60.0	60.0	50.3	60.0	60.0	60.0
30	108	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
36		60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
42		60.0	60.0	60.0	60.0	54.3	60.0	60.0	60.0
47-1/4		60.0	60.0	60.0	60.0	48.3	60.0	60.0	60.0

SEE CHART ON SHEET 5 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE AND REINFORCING TYPES.

SEE CHART ABOVE FOR HEAD ANCHOR CAPACITY.

LOWER DESIGN PRESSURES FROM DESIGN LOAD CHART OR HEAD ANCHOR CHART WILL APPLY TO ENTIRE SYSTEM.

Sealed: 12/11/2025

FL #22645

JALAL FAROOQ

LICENSE

No. 81223

STATE OF FLORIDA

PROFESSIONAL ENGINEER

date: 03-14-24

scale: -

dr. by: TARIQ

chk. by:

revisions:

no	date	by	description

drawing no.

24-10F

sheet 6 of 23

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)

ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

E.S. WINDOWS, LLC

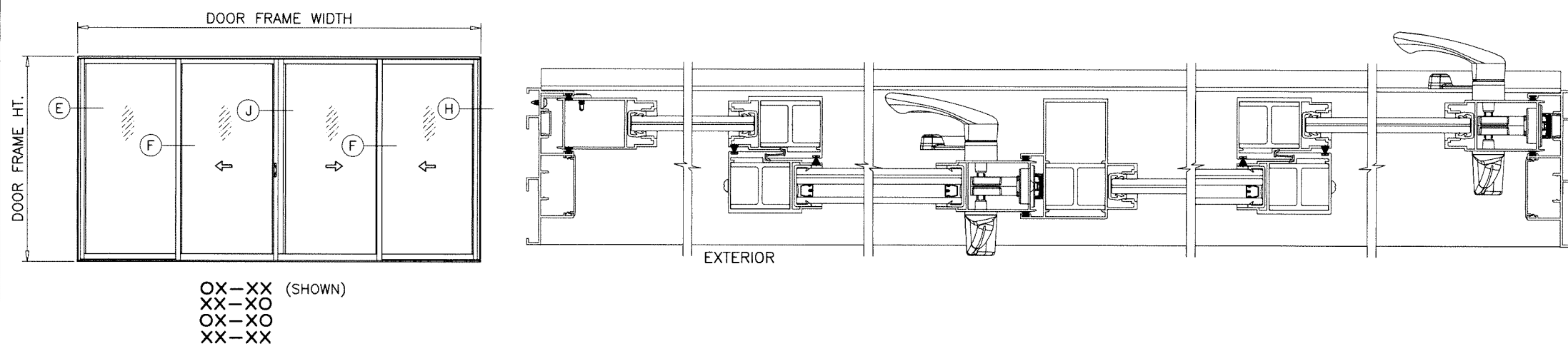
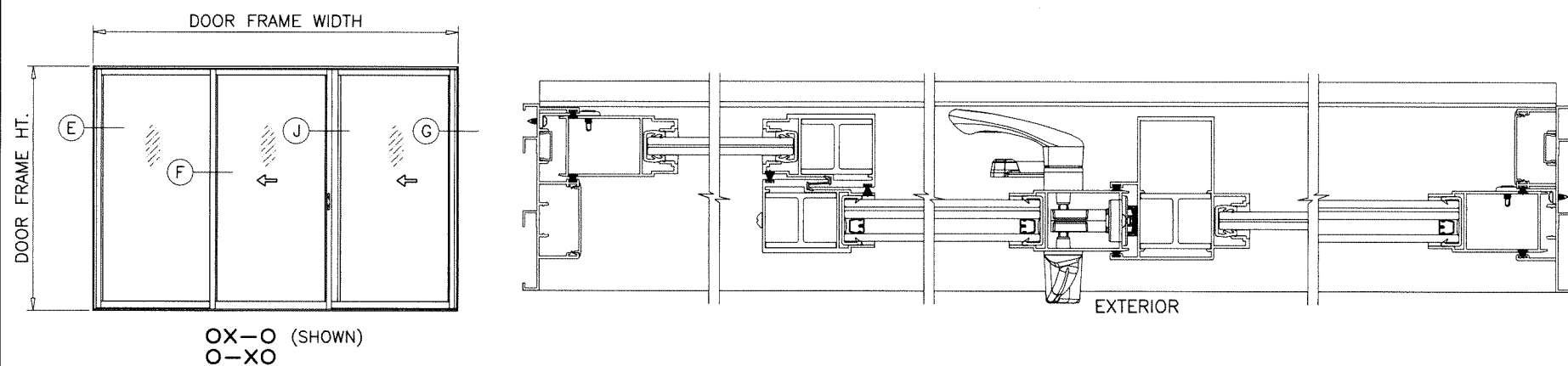
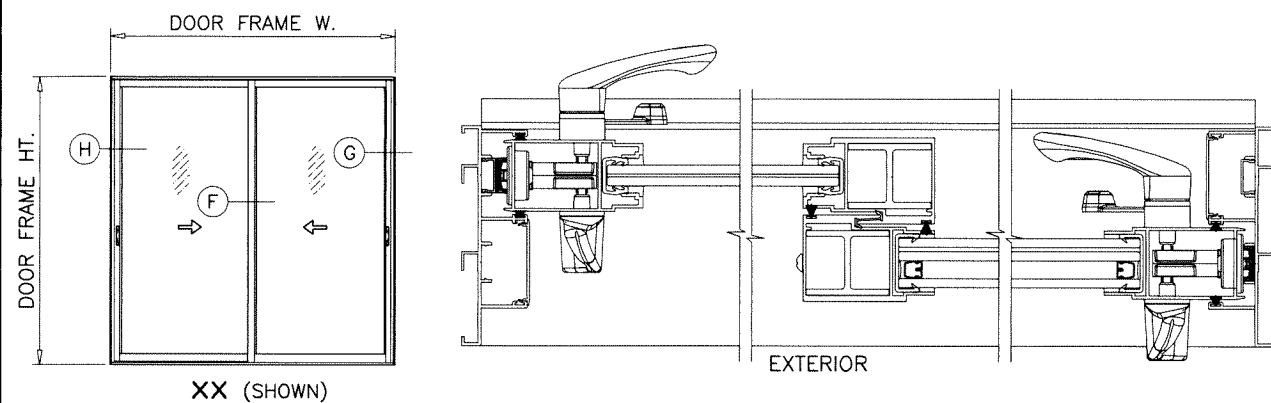
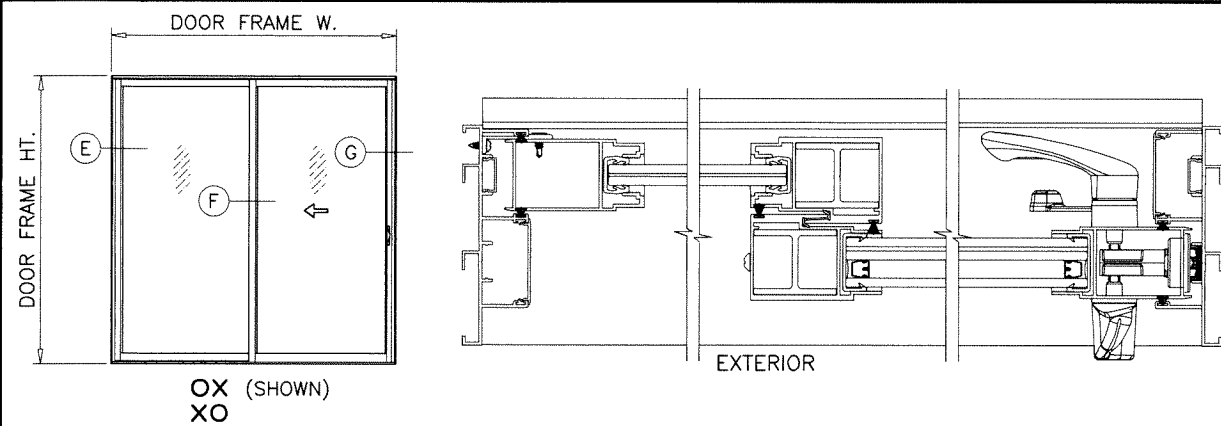
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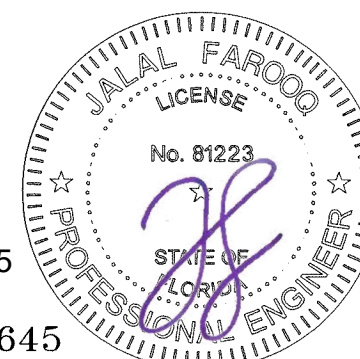
COMP-ANL\24-10F-ES



APPROVED CONFIGURATIONS
NON-POCKETED DOORS
TWO (2) TRACKS

NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.



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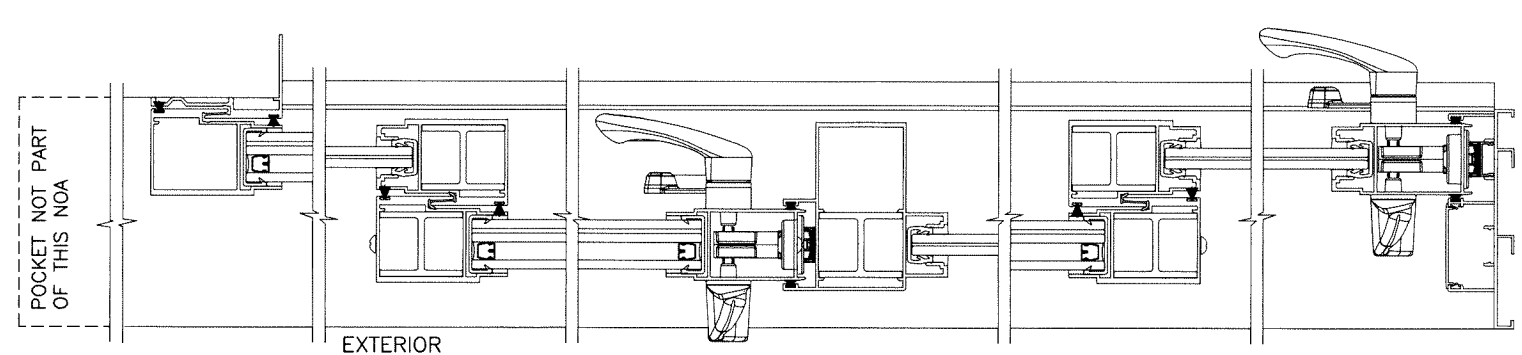
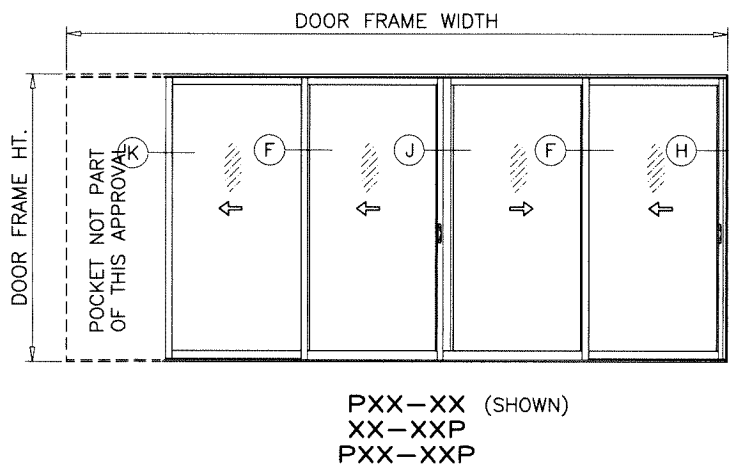
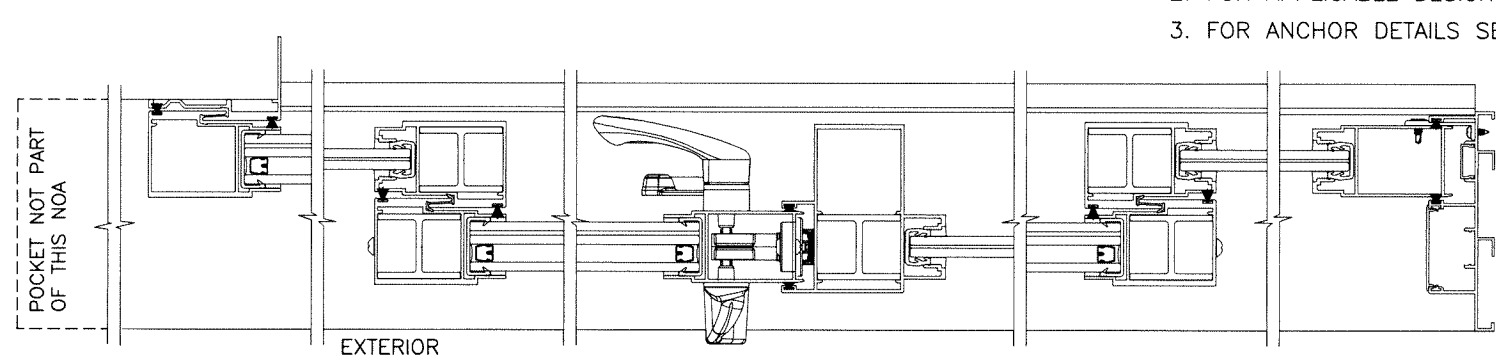
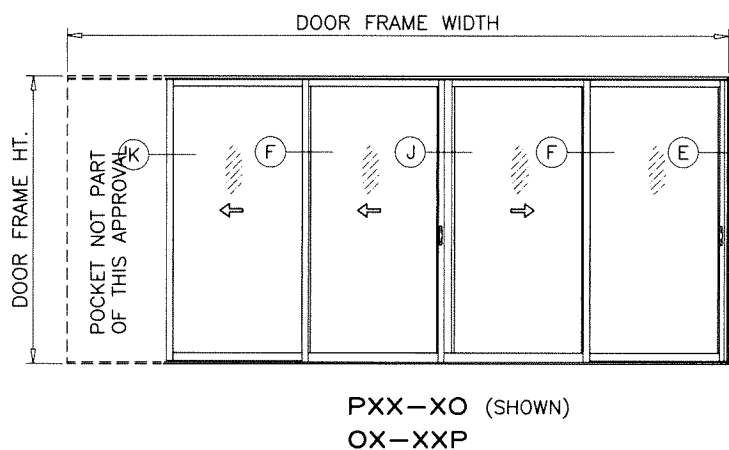
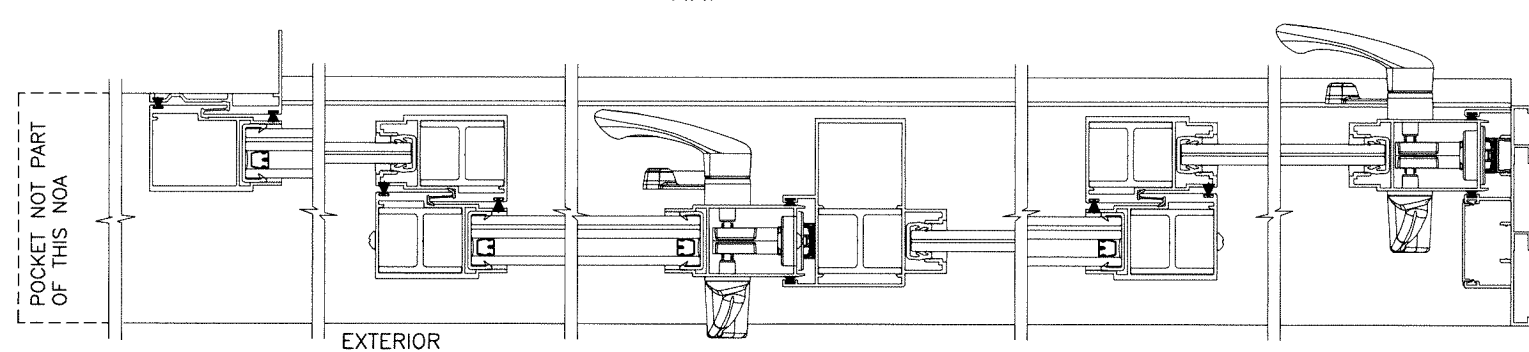
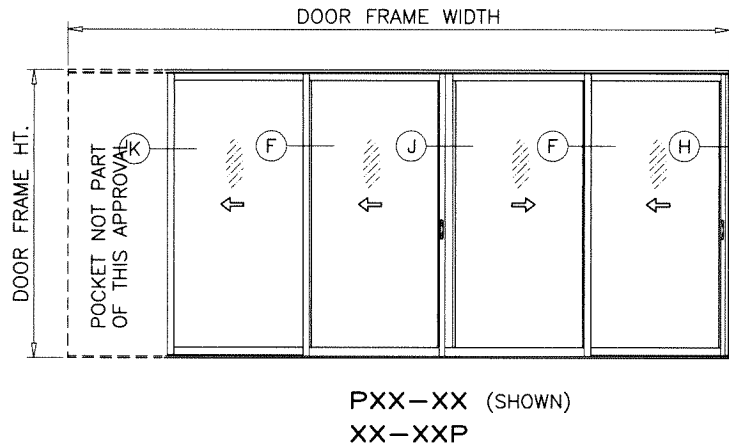
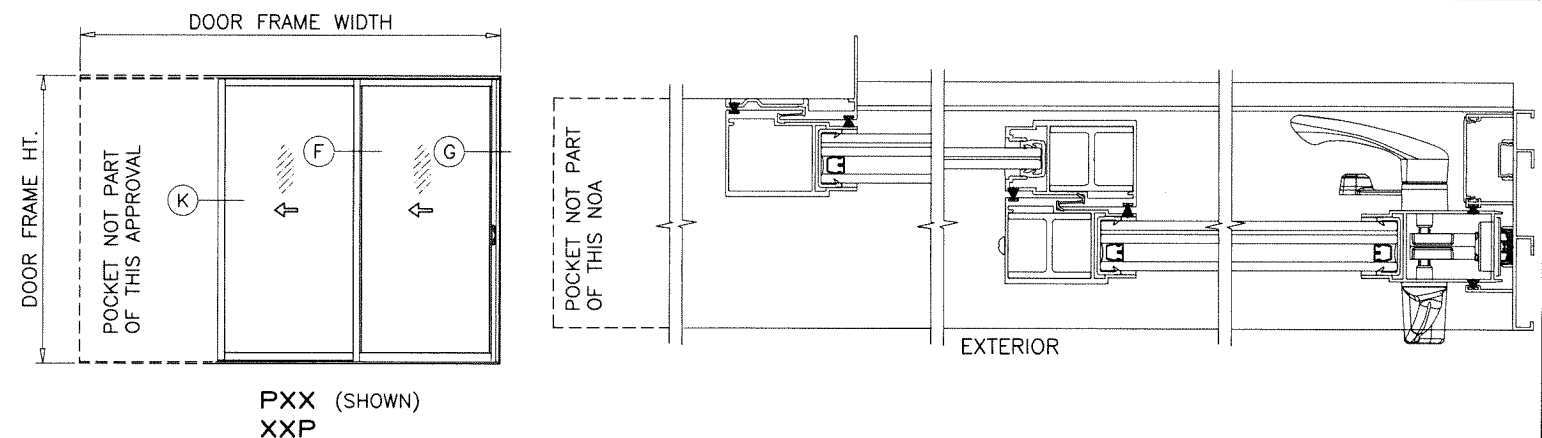
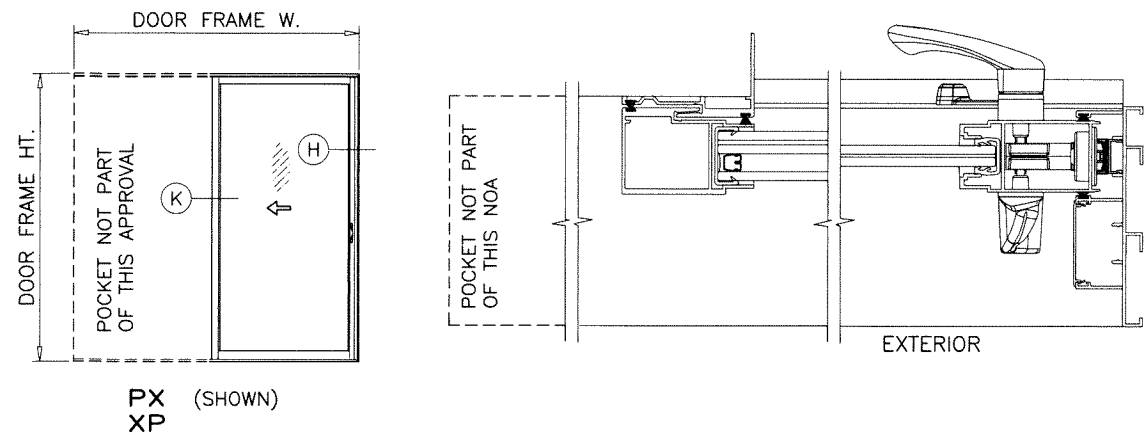
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drawing no.

24-10F

sheet 7 of 23

COMP-ANL\24-10F-ES



NOTE:
 1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. FOR APPLICABLE DESIGN PRESSURES SEE SHEET 5.
 3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.

APPROVED CONFIGURATIONS
POCKETED DOORS
TWO (2) TRACKS

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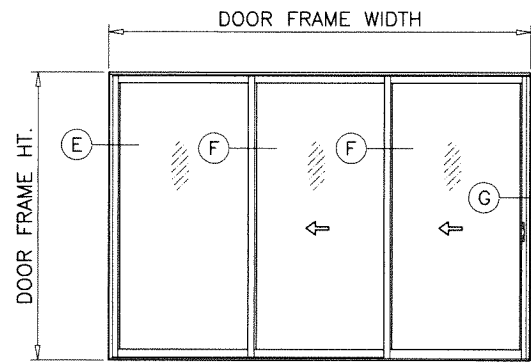
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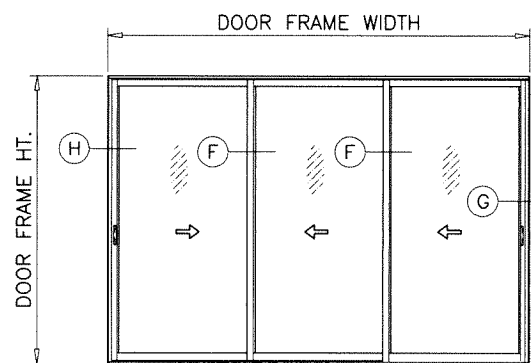
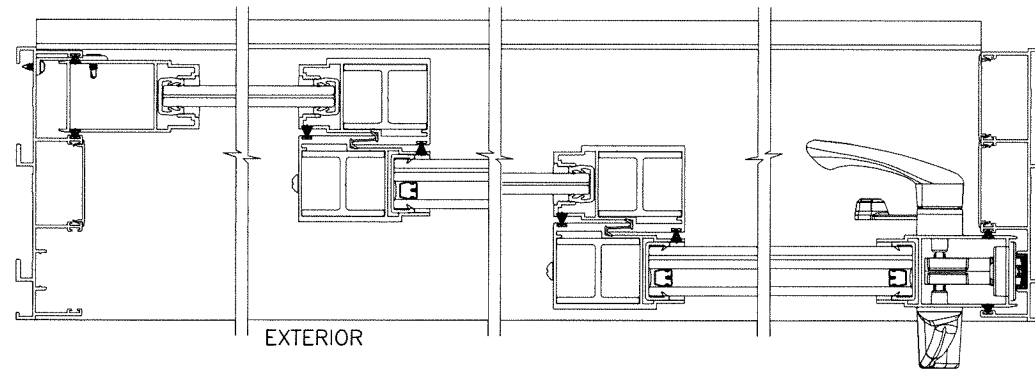
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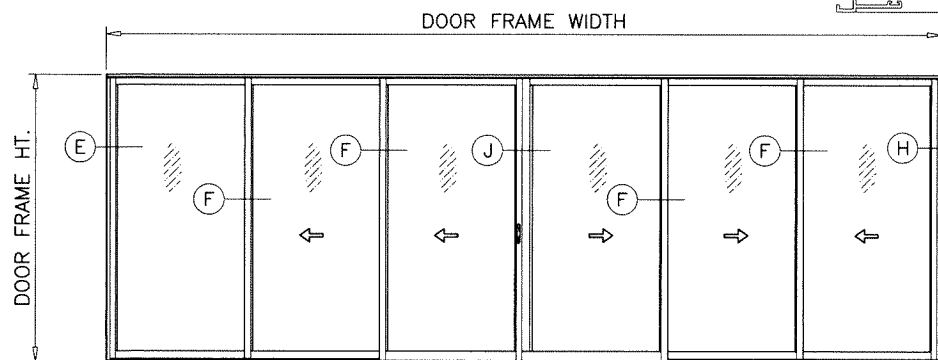
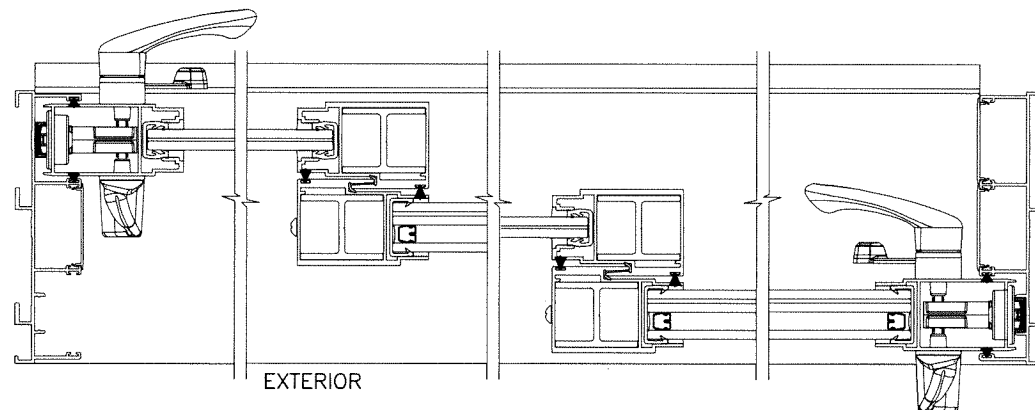
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24-10F
 sheet 8 of 23



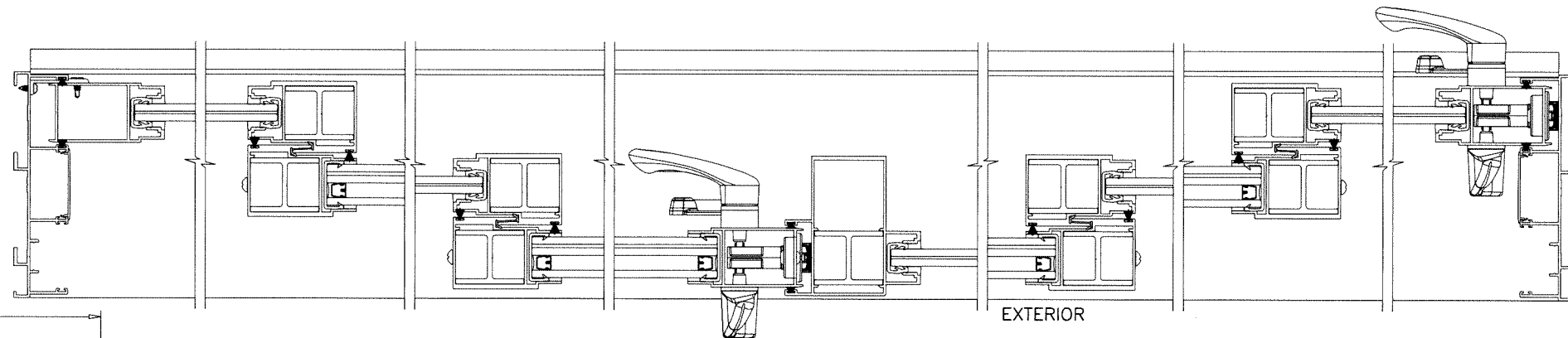
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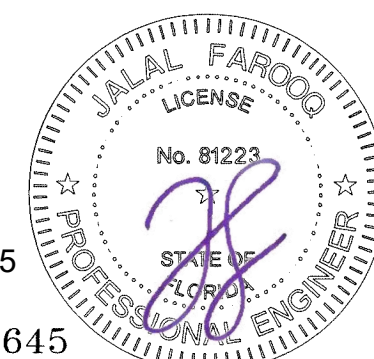
NOTE:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. FOR APPLICABLE DESIGN PRESSURES AND REINFORCEMENTS REQUIREMENTS SEE SHEET 5.
3. FOR ANCHOR DETAILS SEE SHEETS 14 THRU 19.

APPROVED CONFIGURATIONS
NON-POCKETED DOORS
THREE (3) TRACKS

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FL #22645



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AL-FAROOQ CORPORATION
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MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978
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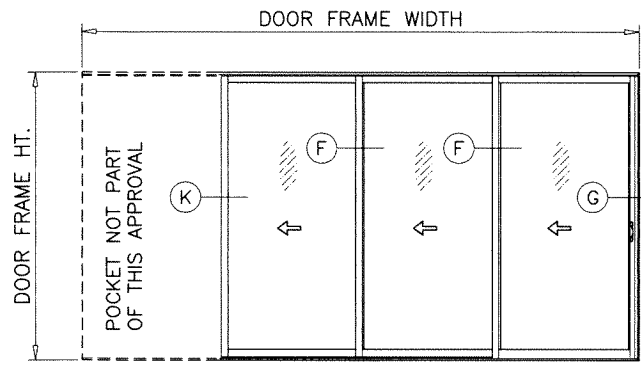
ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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

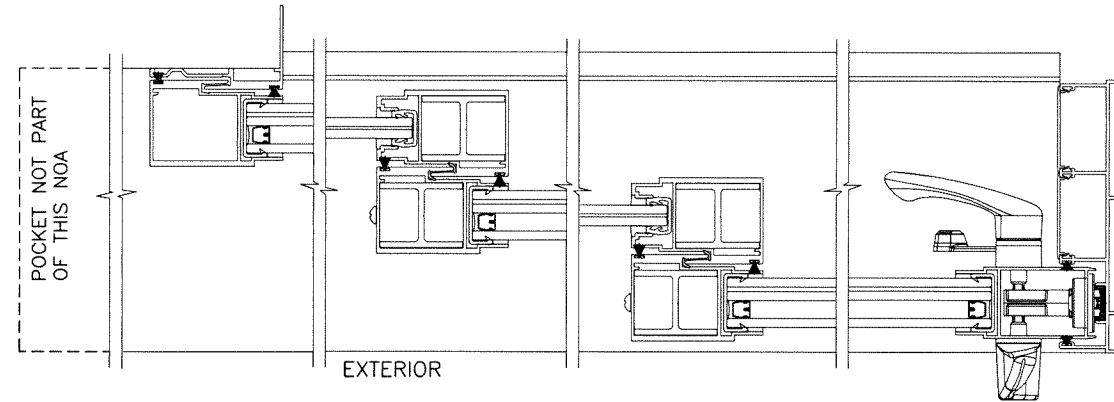
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dr. by: TARIQ
chk. by:

drawing no.
24-10F
sheet 9 of 23

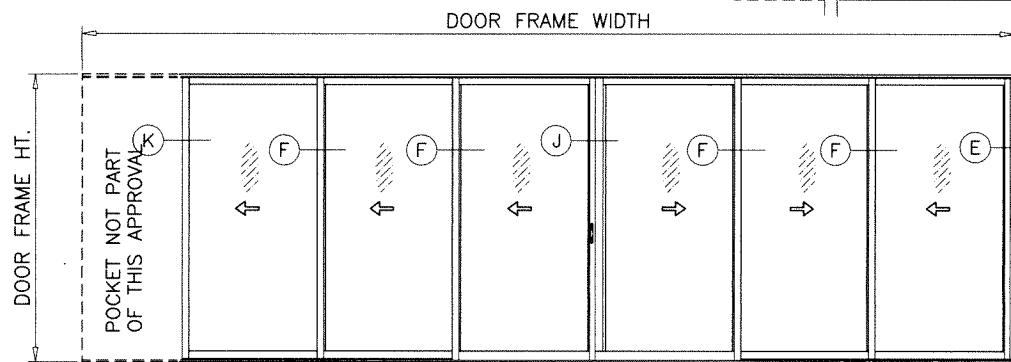


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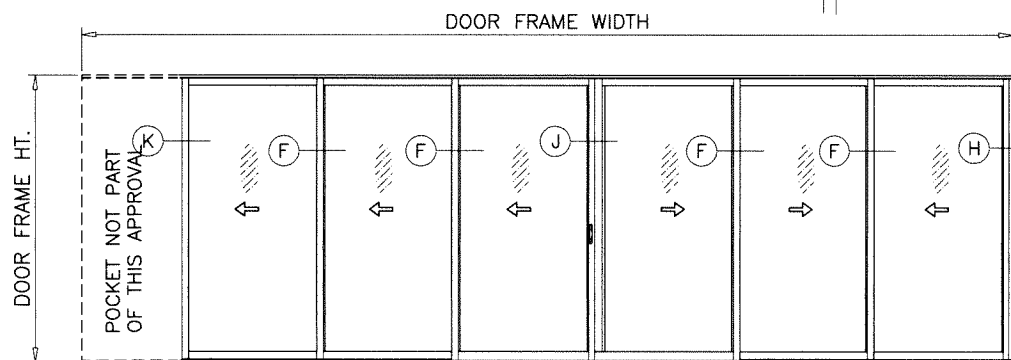
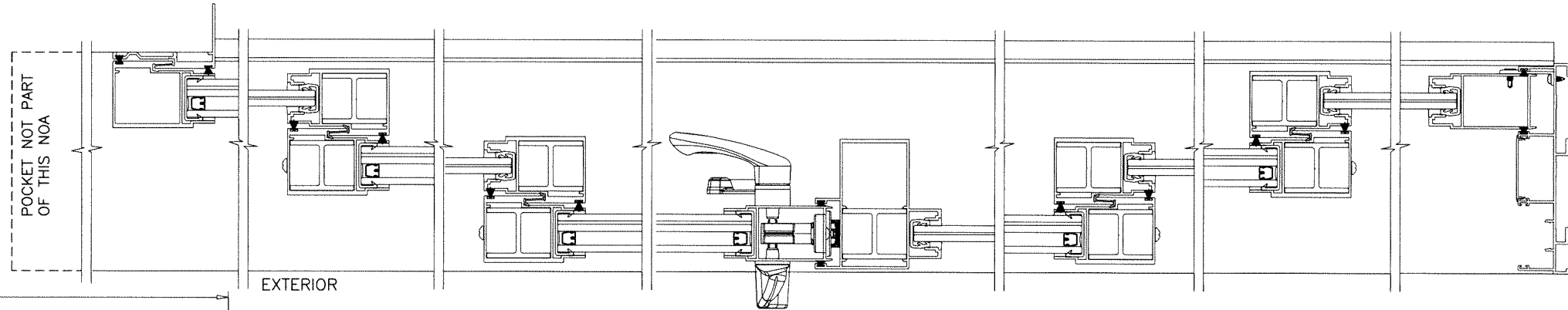


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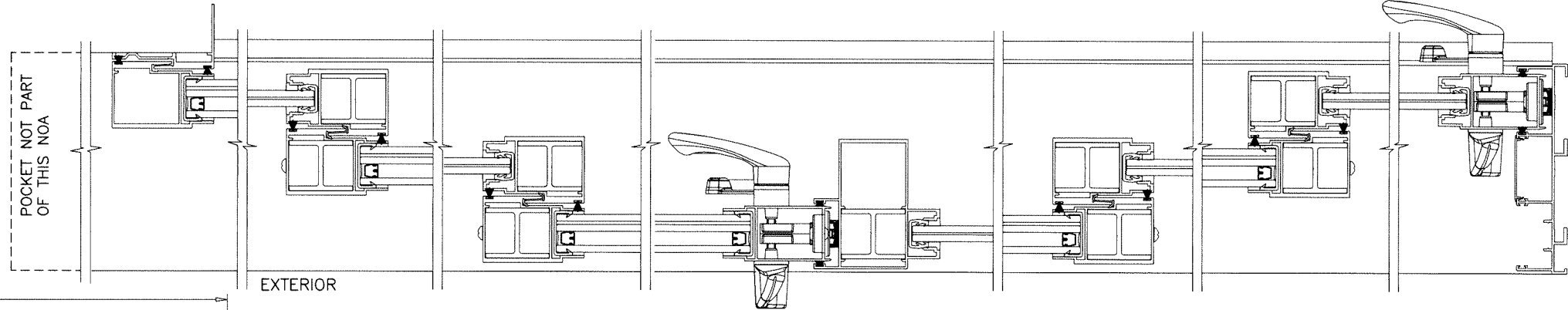
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PXXX-XXO (SHOWN)
OXX-XXXXP



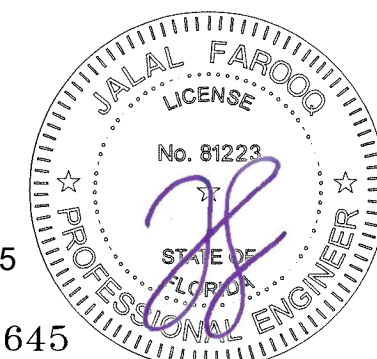
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PXXX-XXXXP



APPROVED CONFIGURATIONS
POCKETED DOORS
THREE (3) TRACKS

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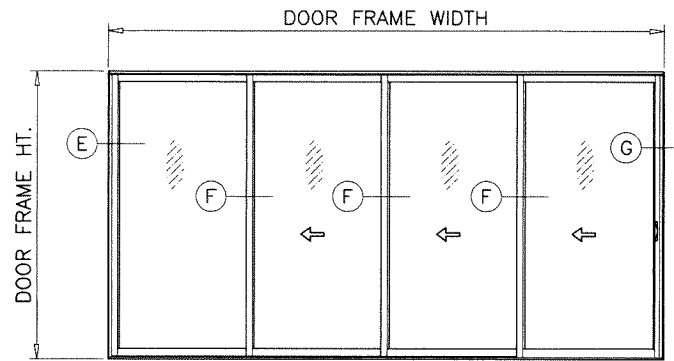
ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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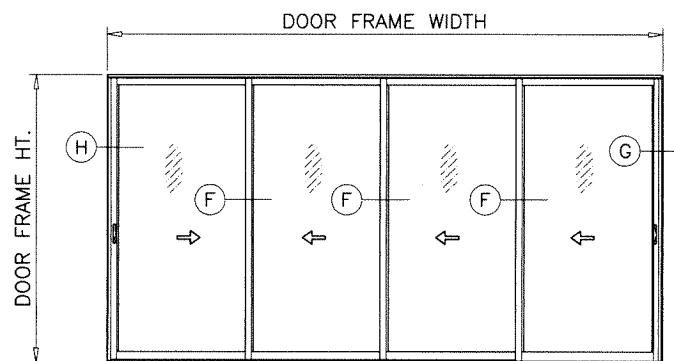
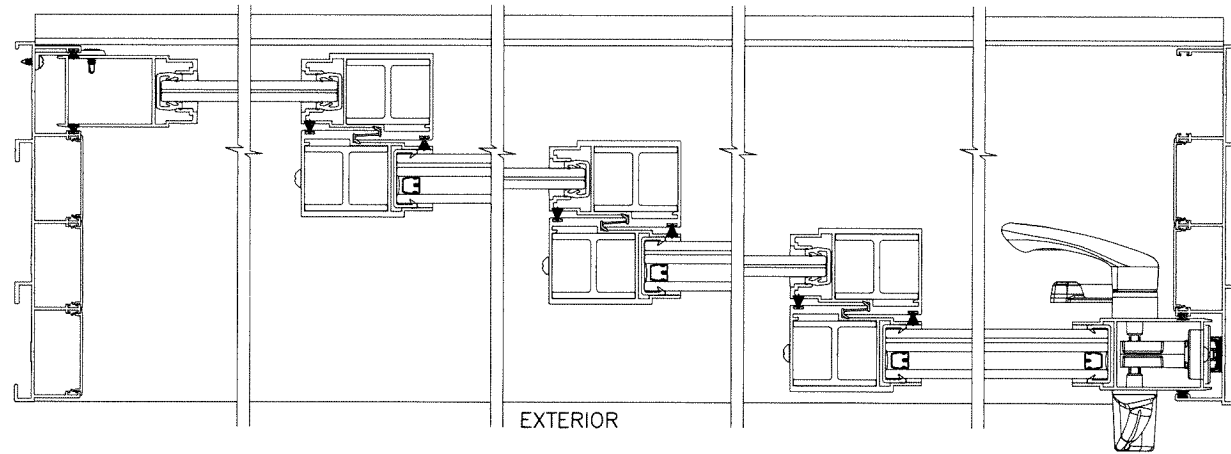
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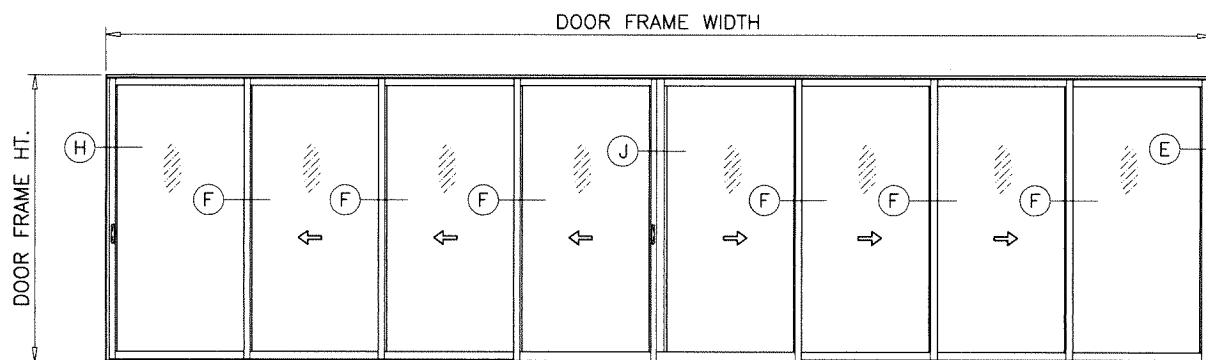
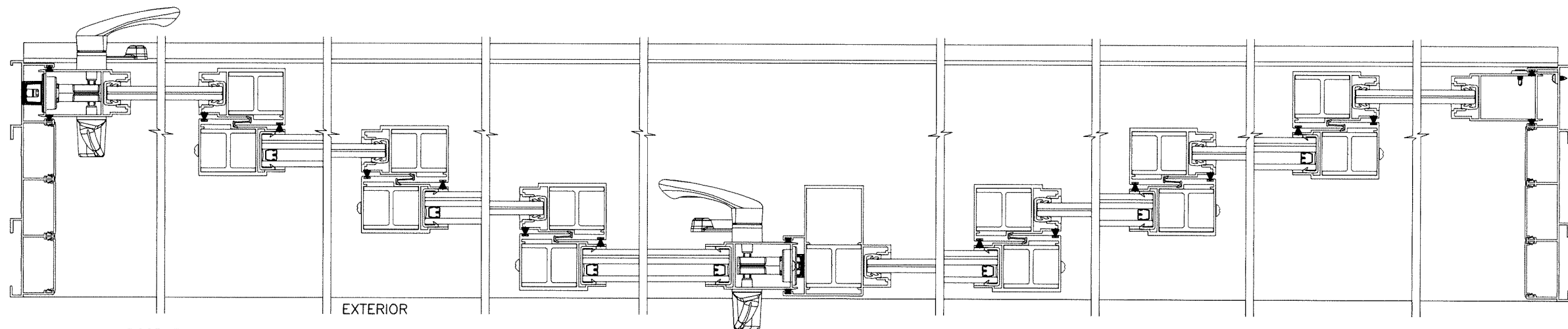
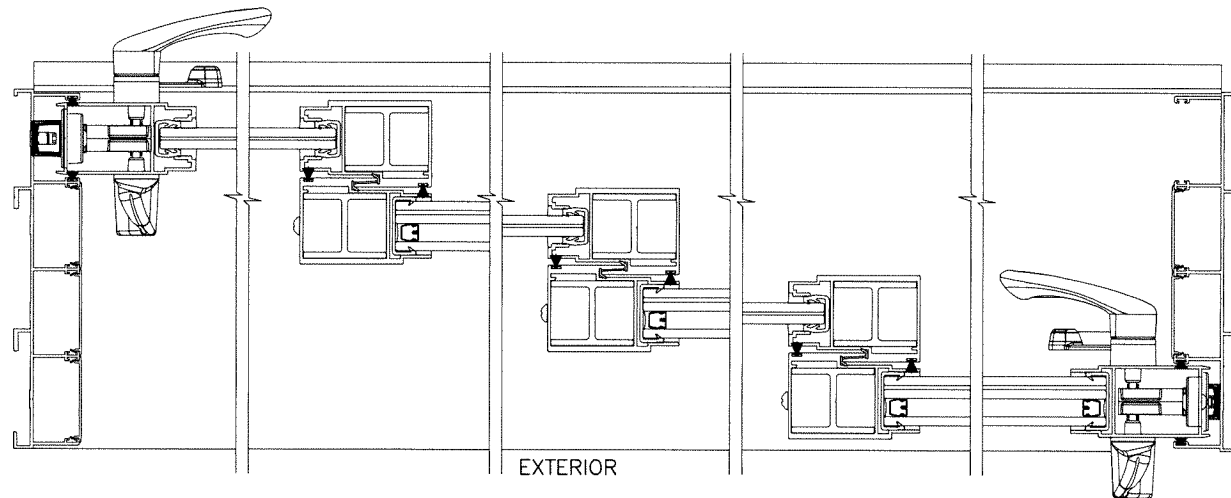
drawing no.
24-10F
sheet 10 of 23



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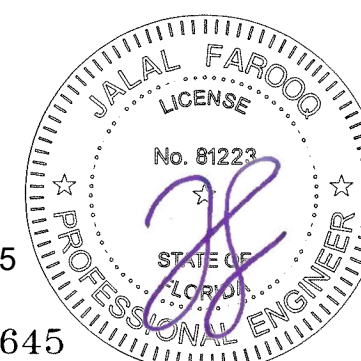


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OXXX-XXXX
XXXX-XXXX

APPROVED CONFIGURATIONS
NON-POCKETED DOORS
FOUR (4) TRACKS

NOTE:

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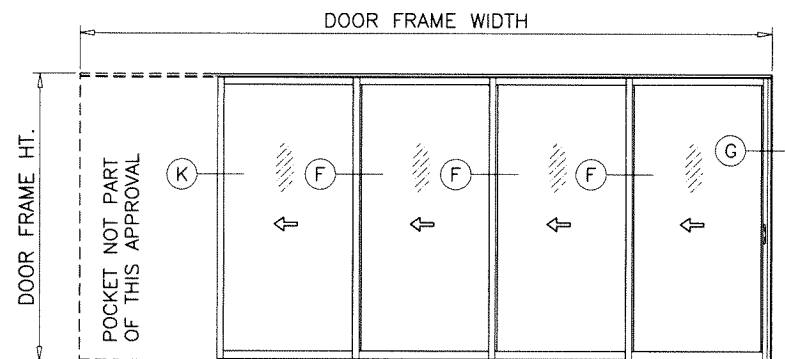
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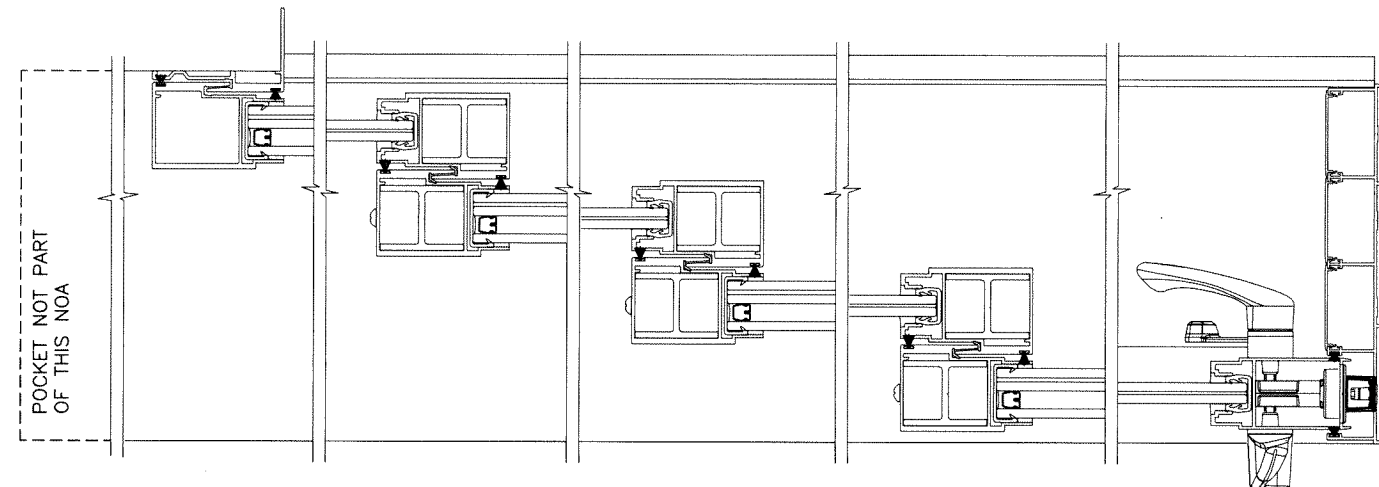
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24-10F

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COMP-ANL\24-10F-ES

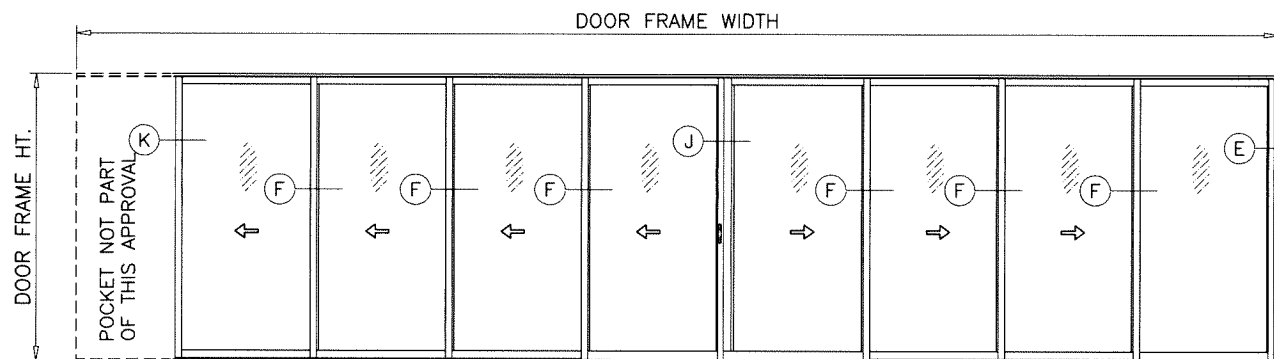
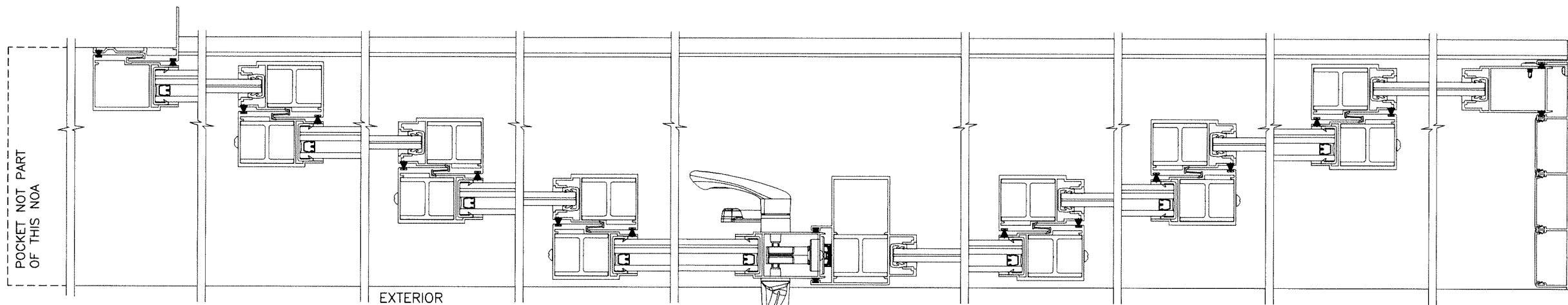


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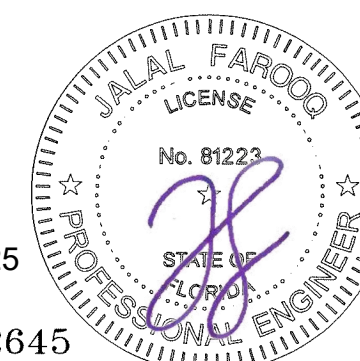


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APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS

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FL #22645

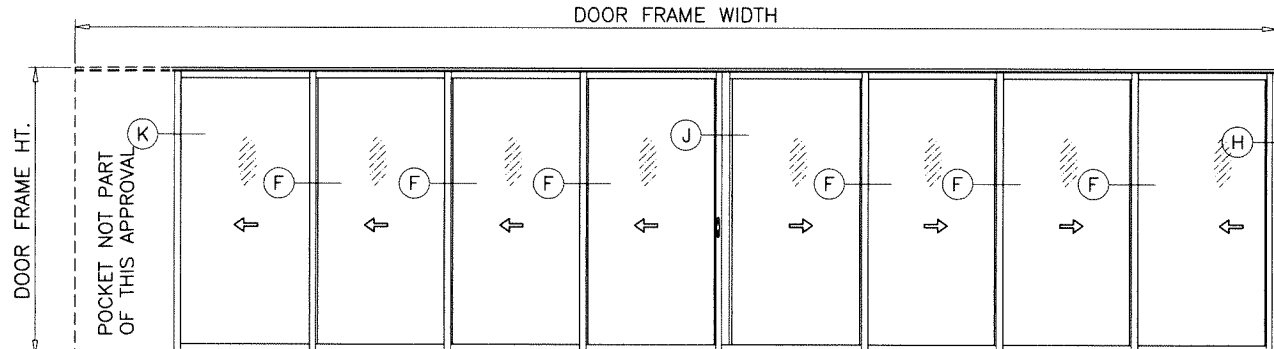


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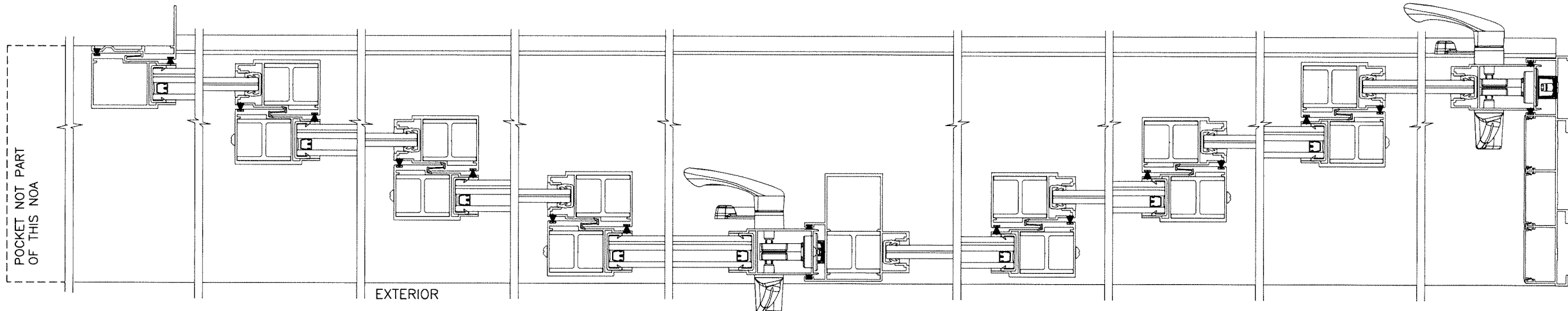
ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)
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 PXXXX-XXXXP



APPROVED CONFIGURATIONS
POCKETED DOORS
FOUR (4) TRACKS

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FL #22645



- NOTE:
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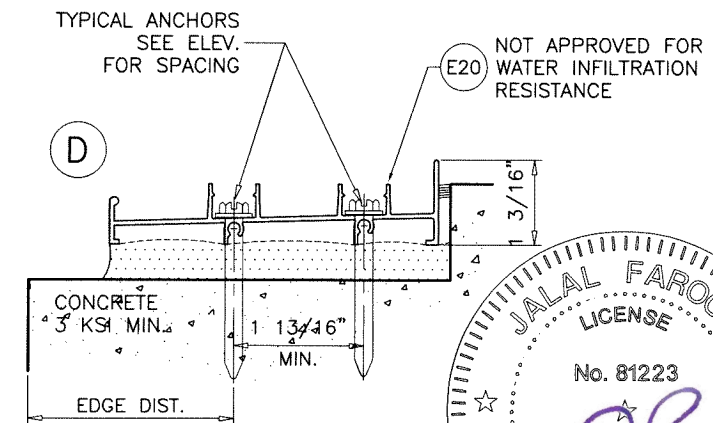
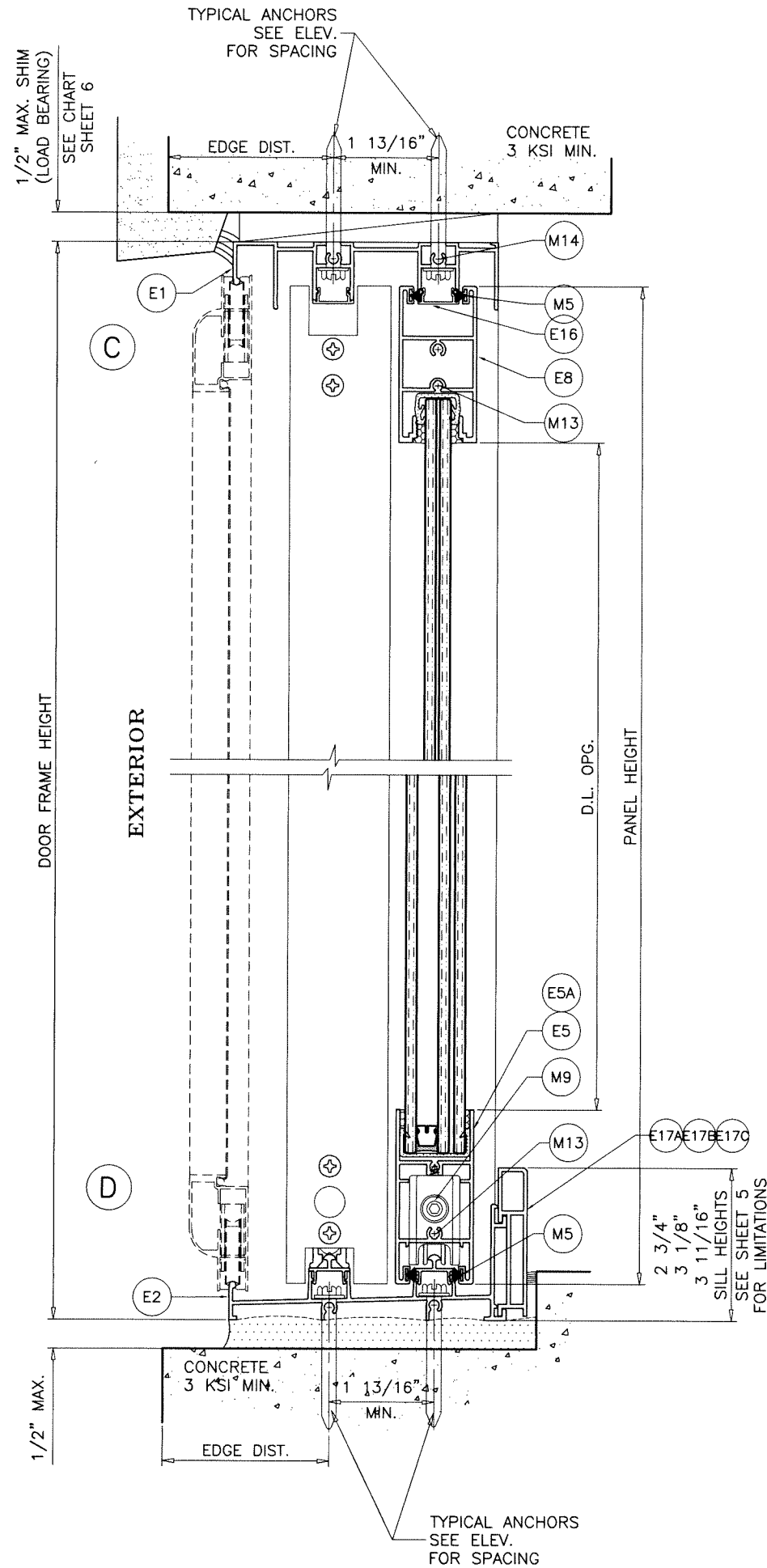
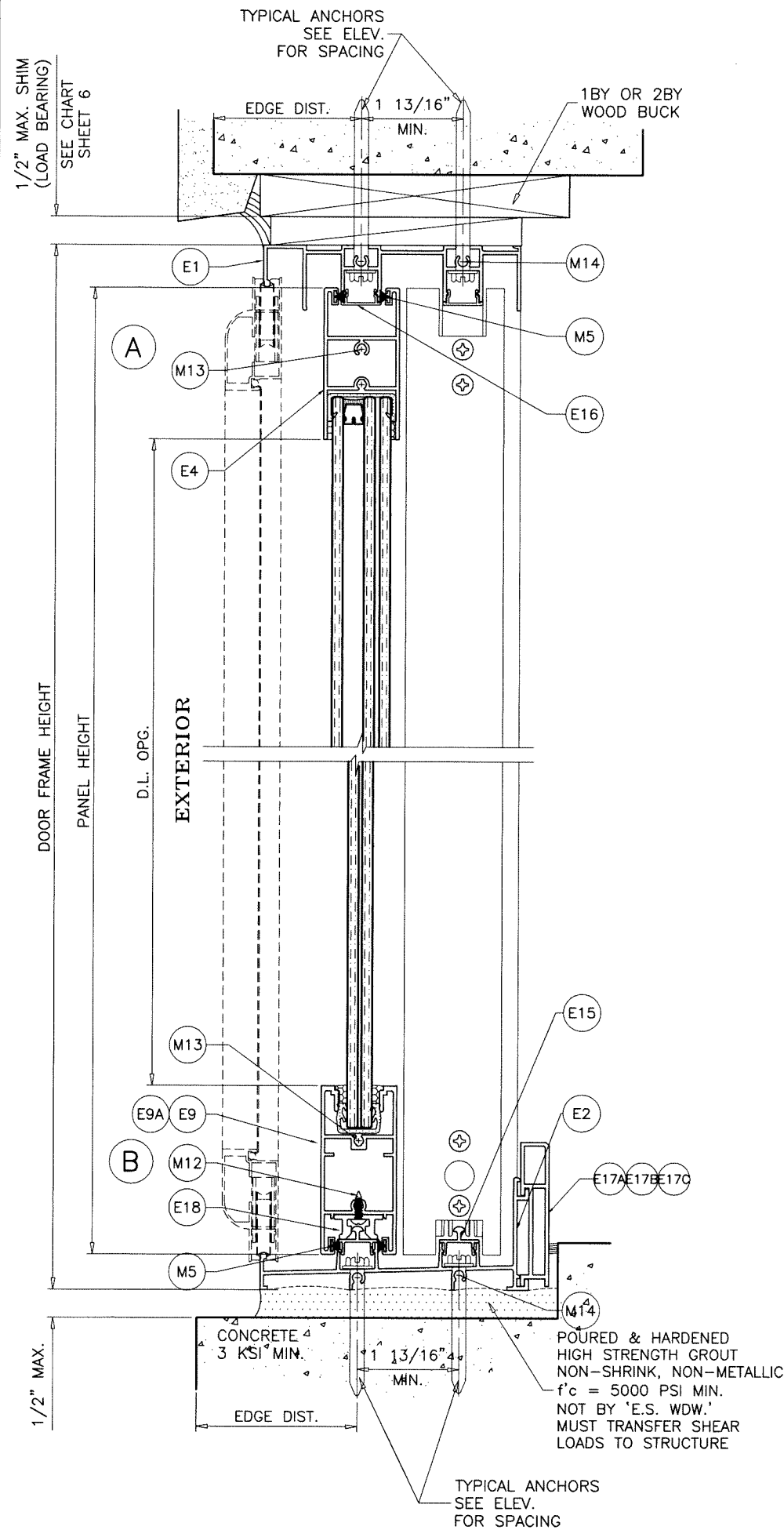
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revisions:	
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date: 03-14-24
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revisions:	no	date	by	description

date: 03-14-24
scale: 3/8" = 1"
dr. by: TARIQ
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drawing no.
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TYPICAL ANCHORS: SEE ELEV. FOR SPACING

AT HEAD

TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO WOOD STRUCTURES
 2" MIN. PENETRATION INTO WOOD
 THRU 1BY BUCKS INTO CONCRETE
 1-3/4" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.
 THRU 2BY BUCKS INTO CONCRETE
 1-1/2" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 DIRECTLY INTO CONCRETE
 2" MIN. EMBED INTO CONCRETE, 1-1/2" MIN. EDGE DIST.

TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

AT SILL

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 DIRECTLY INTO CONCRETE
 1-3/4" MIN. EMBED INTO CONCRETE

AT JAMBS

TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO WOOD STRUCTURES
 2" MIN. PENETRATION INTO WOOD
 THRU 1BY OR 2BY BUCKS INTO CONC. OR FILLED BLOCK
 1-1/4" MIN. EMBED INTO CONCRETE
 1-1/2" MIN. EMBED INTO FILLED BLOCKS

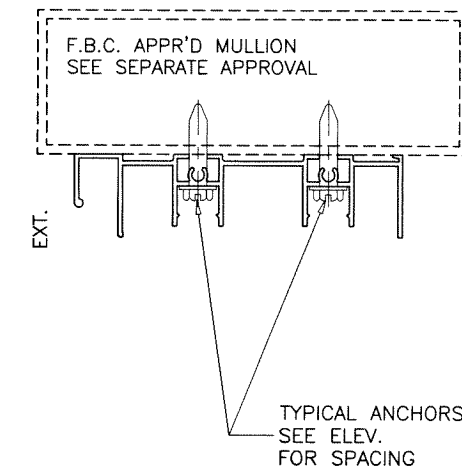
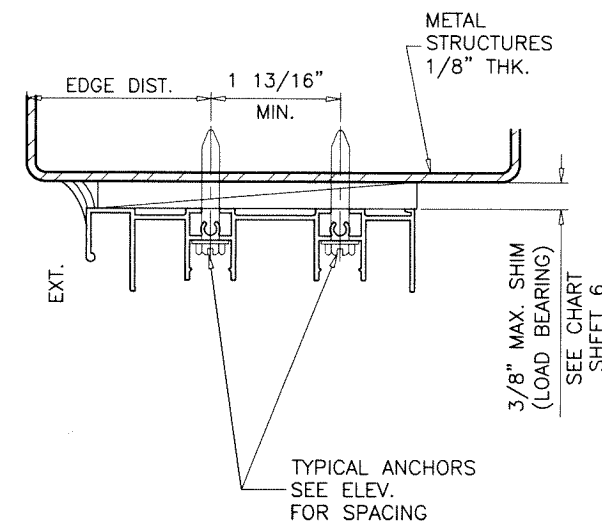
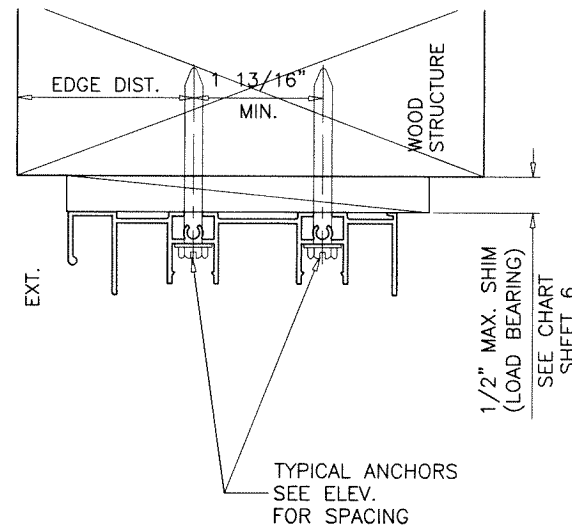
TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
 2" MIN. EMBED INTO CONCRETE
 2" MIN. EMBED INTO GROUT FILLED BLOCKS

TYPE 'C'— 1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

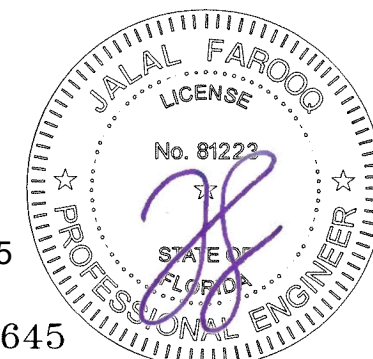
ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2-1/2" MIN. (UNLESS SPECIFIED OTHERWISE)
 INTO WOOD STRUCTURE = 1" 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.



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



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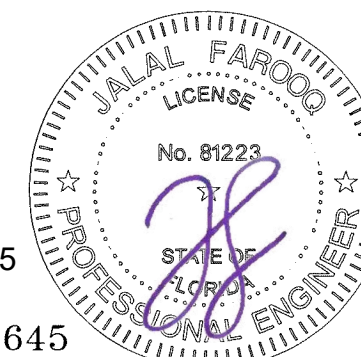
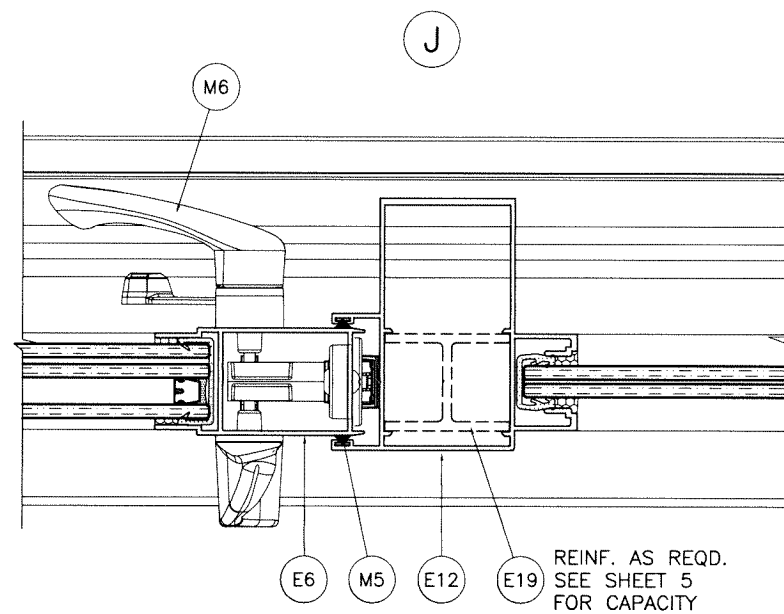
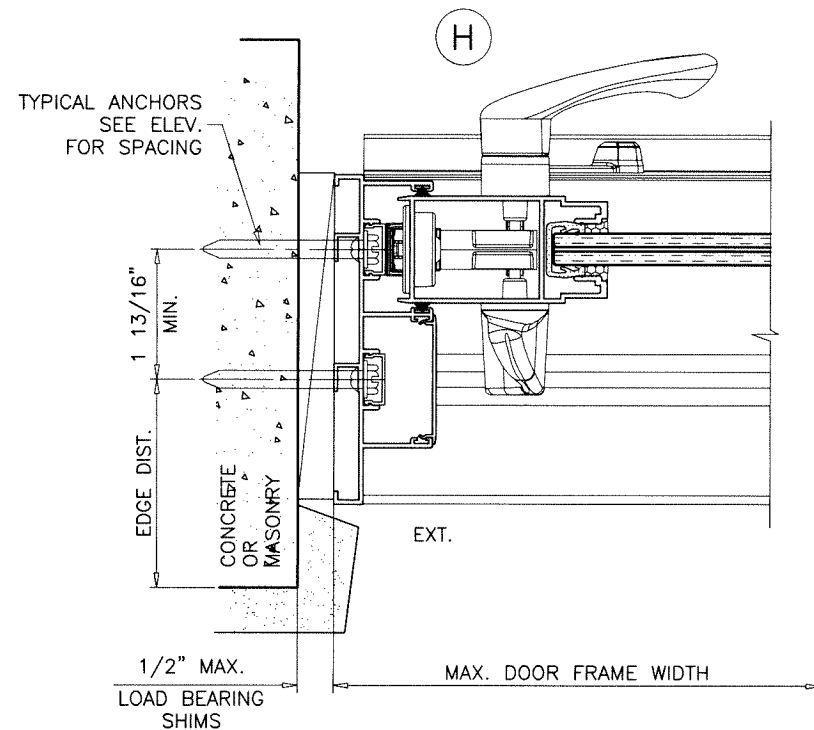
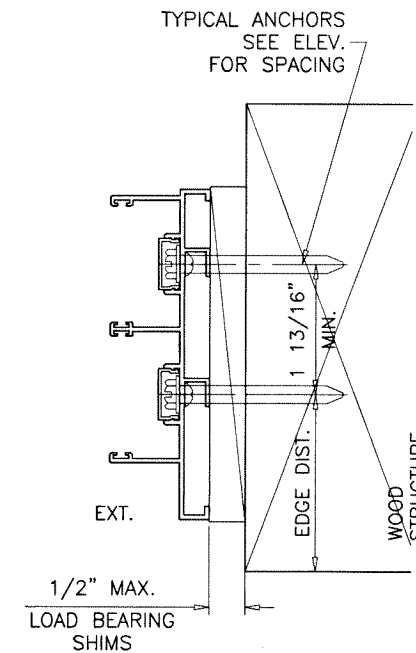
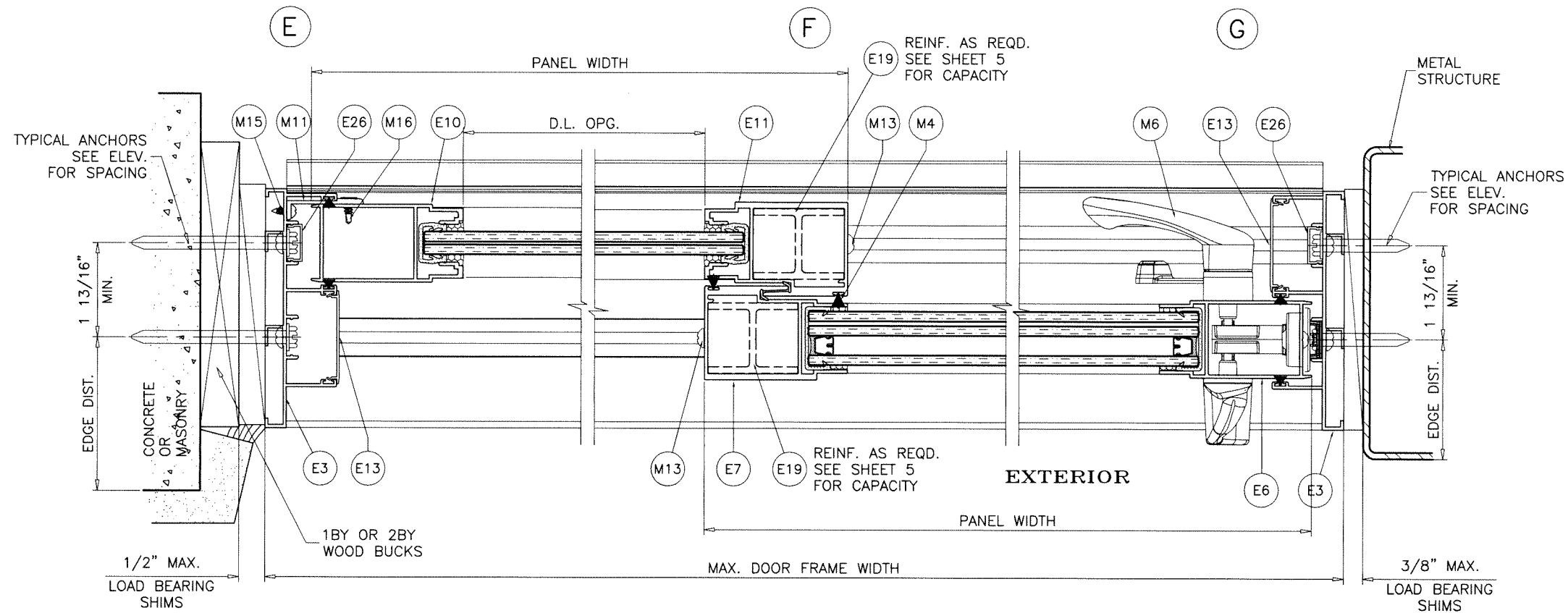
ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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no	date	by	description		

date: 03-14-24
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 dr. by: TARIQ
 chk. by:

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no	date	by	description

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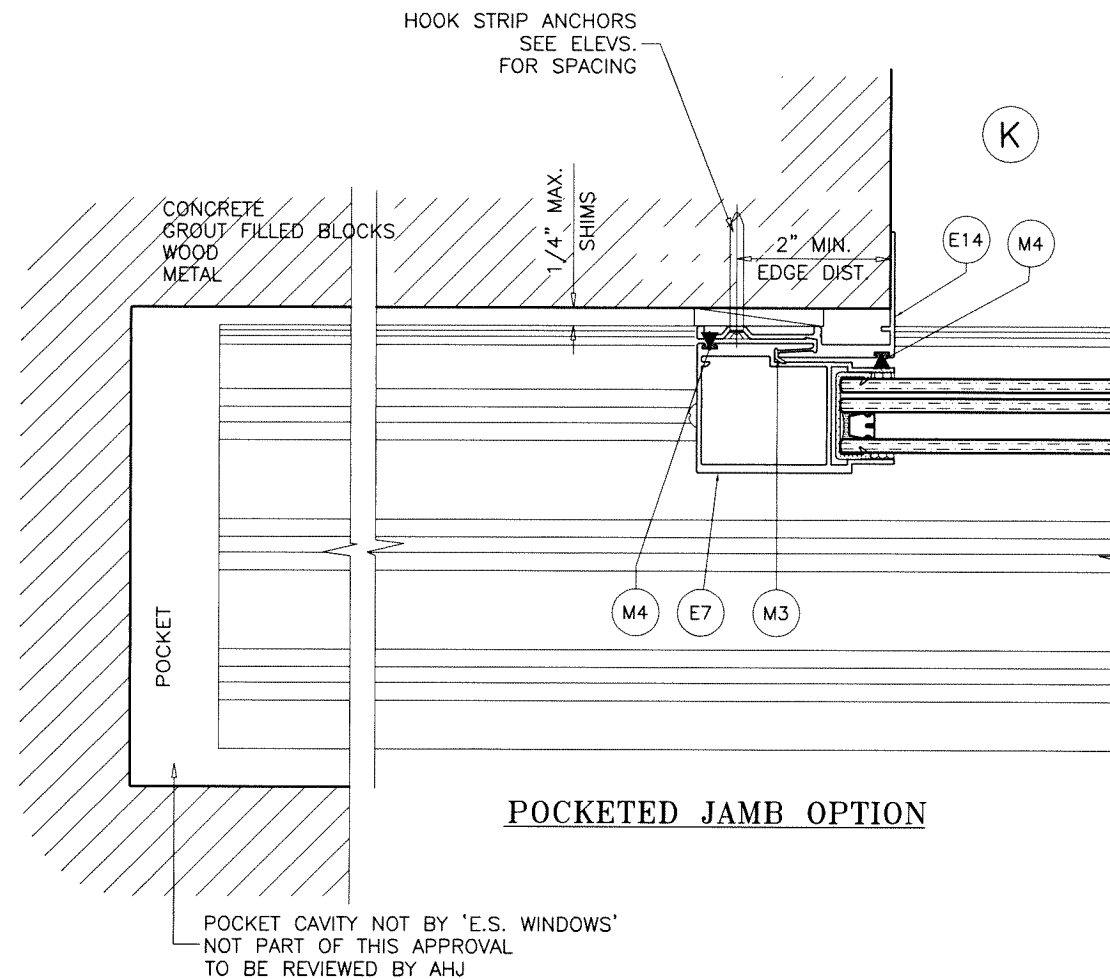
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dr. by: TARIQ

drawing no.

24-10F

sheet 16 of 23



POCKETED JAMB OPTION

HOOK STRIP ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)

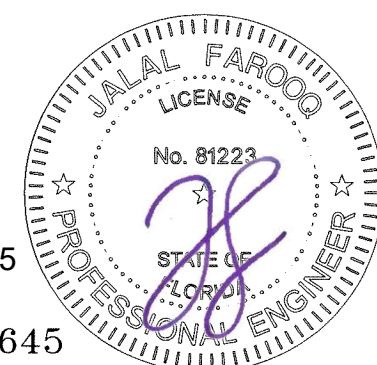
DIRECTLY INTO CONCRETE OR GROUT FILLED BLOCKS
 1-3/4" MIN. EMBED INTO CONCRETE
 1-3/4" MIN. EMBED INTO GROUT FILLED BLOCKS

#14 SMS (GRADE 2 CRS)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO METAL STRUCTURES
 (3) THREADS MIN. PENETRATION BEYOND SUBSTRATE
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

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



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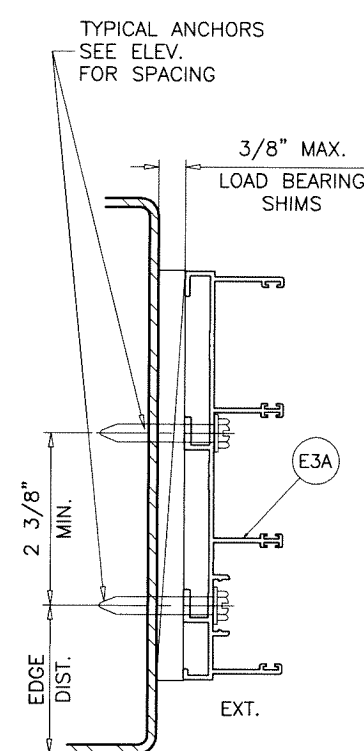
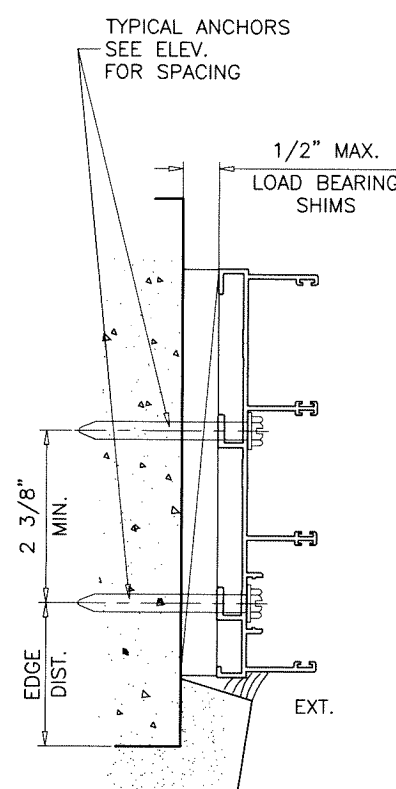
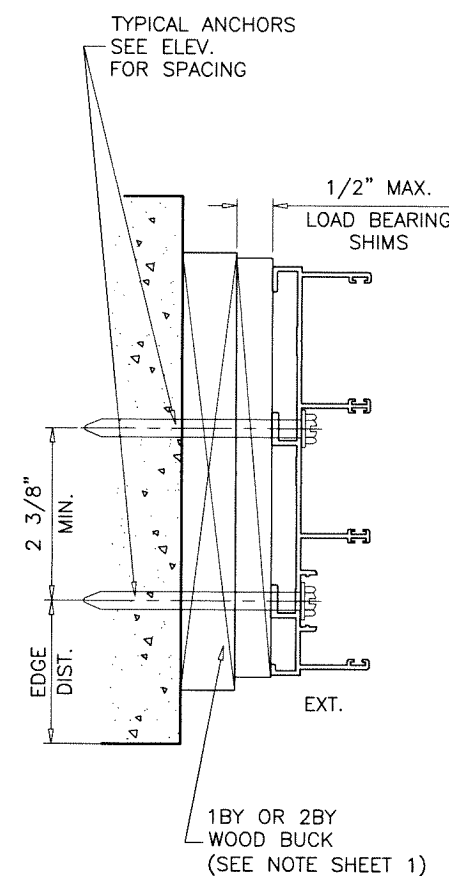
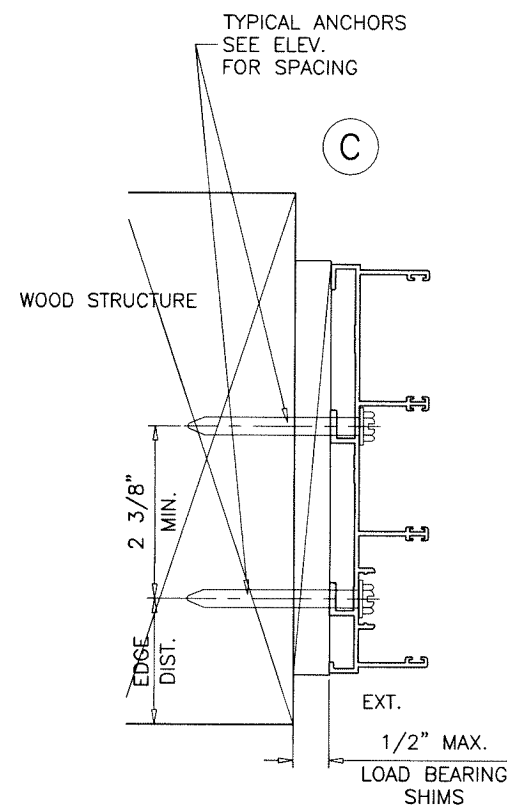
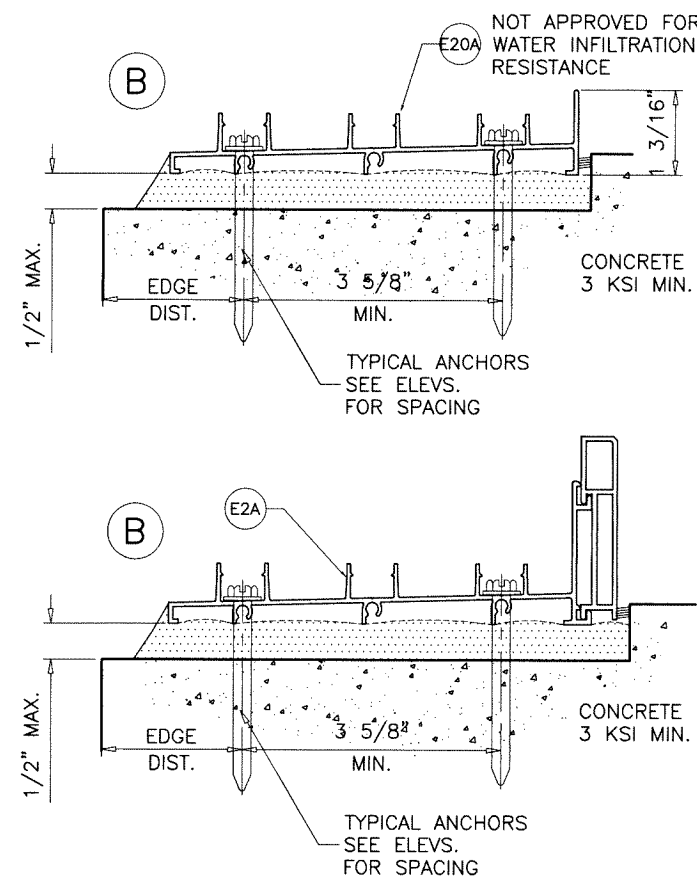
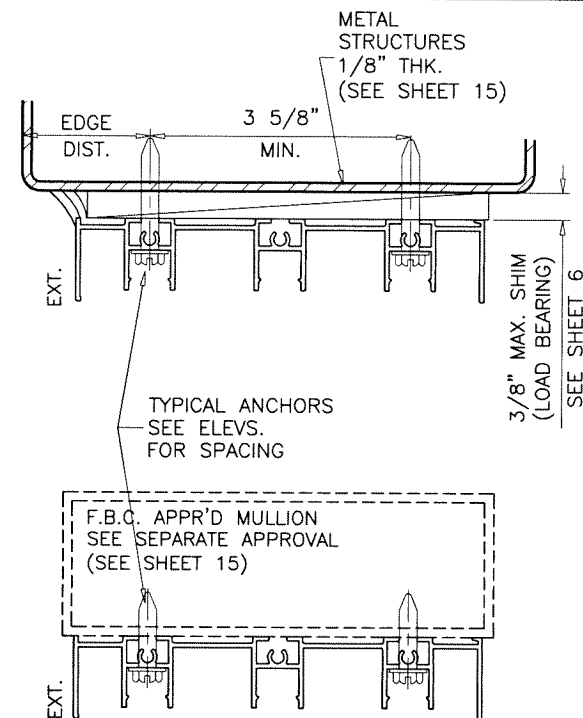
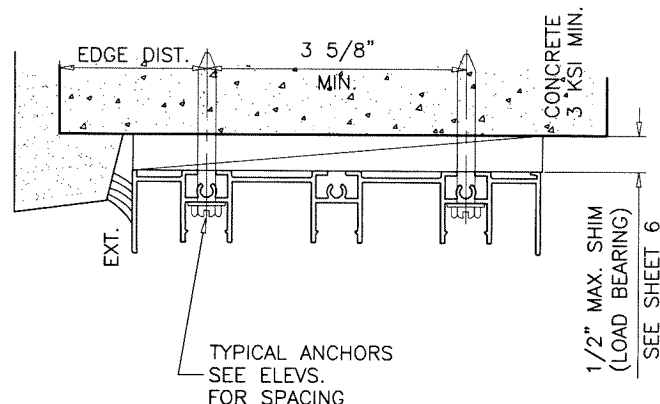
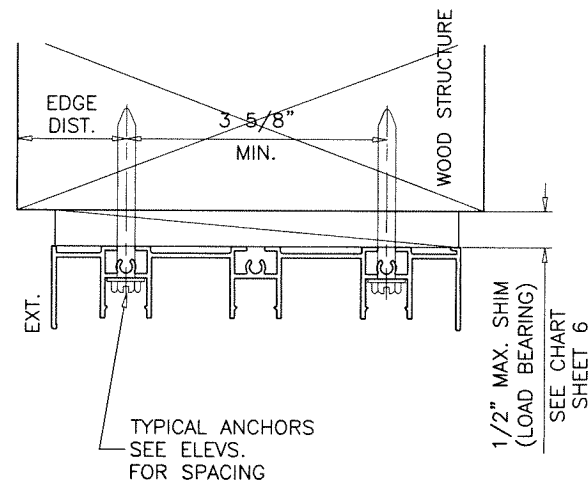
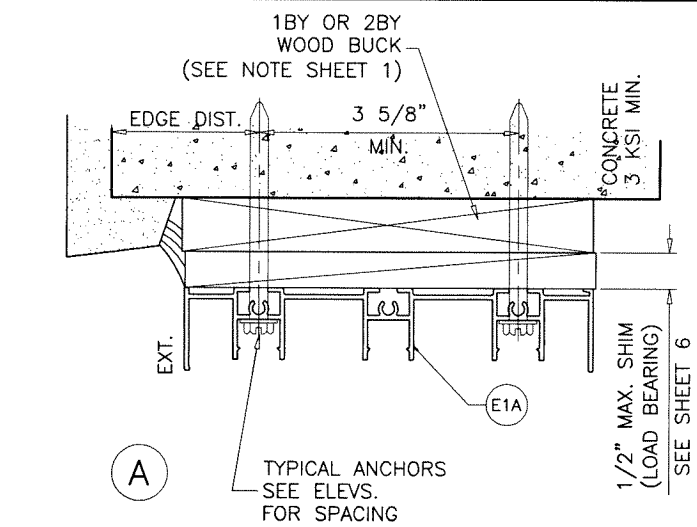
ES-EL400 ALUM SLIDING GLASS DOOR (L.M.I.)

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

revisions:		no		date		by		description	

date: 03-14-24
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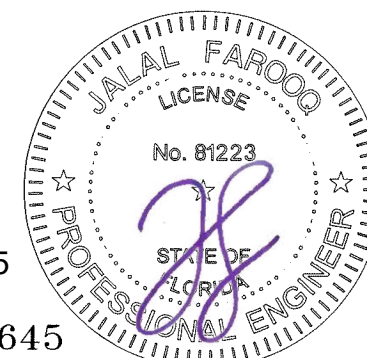
drawing no.
24-10F
 sheet 17 of 23



3 TRACK FRAMES
ANCHOR LOCATIONS

Sealed: 12/11/2025

FL #22645



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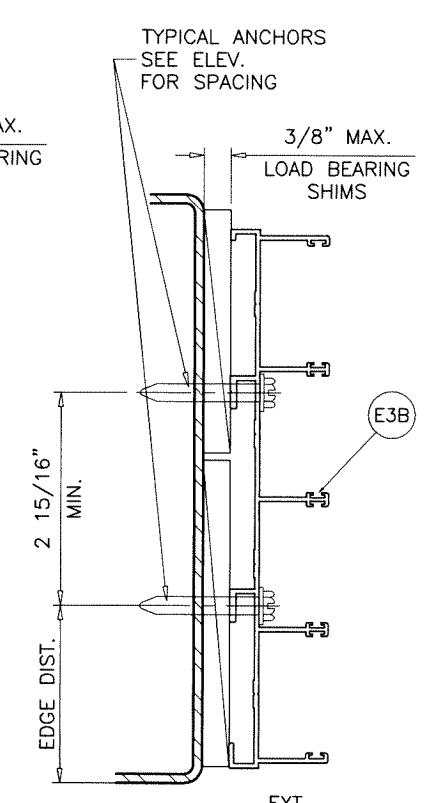
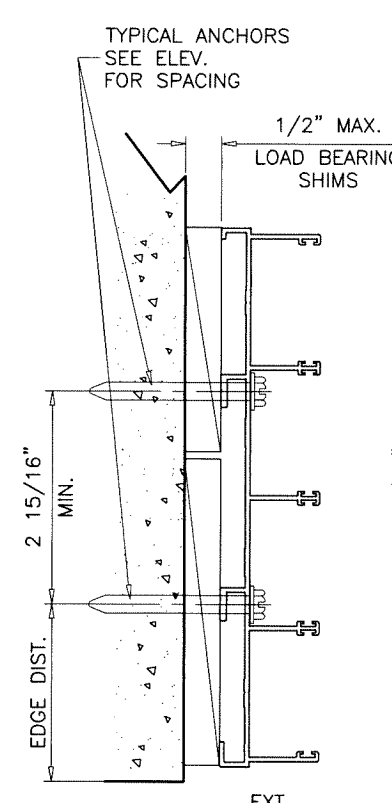
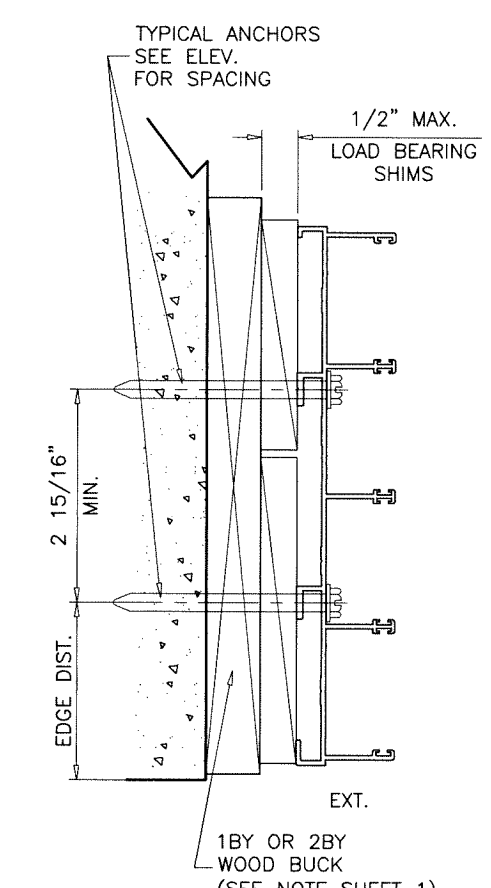
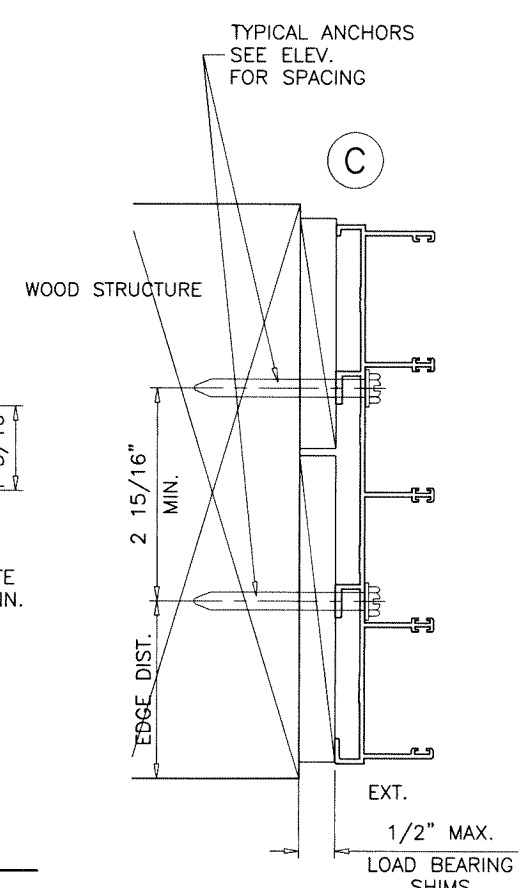
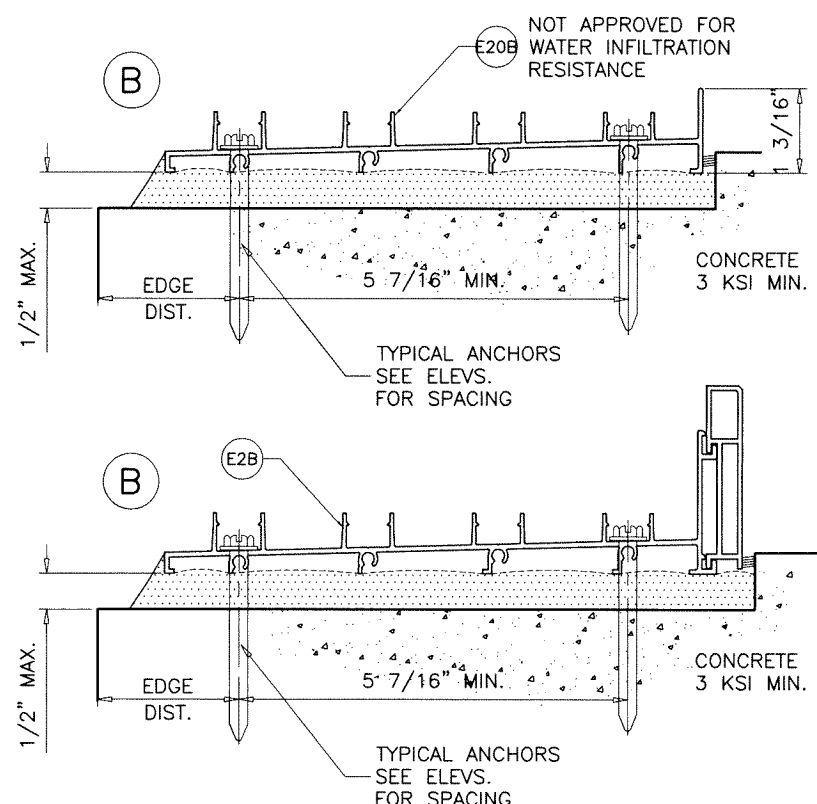
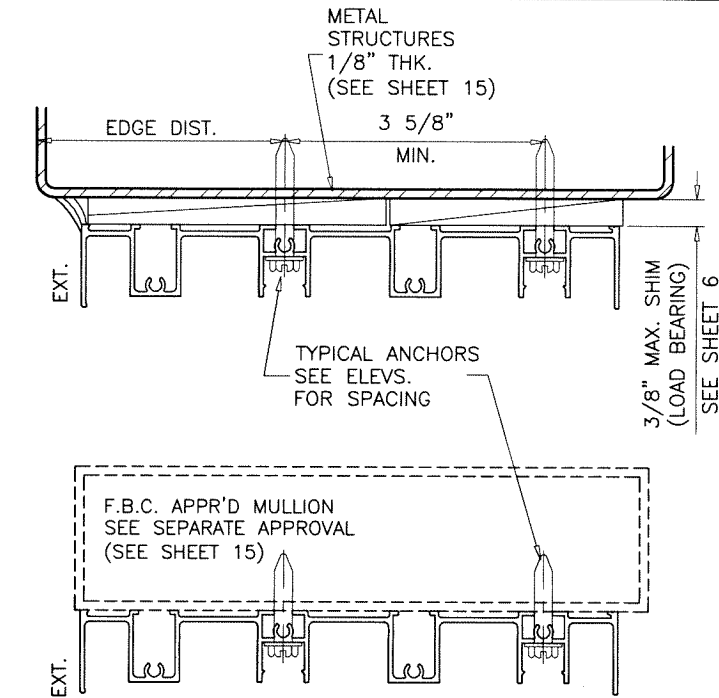
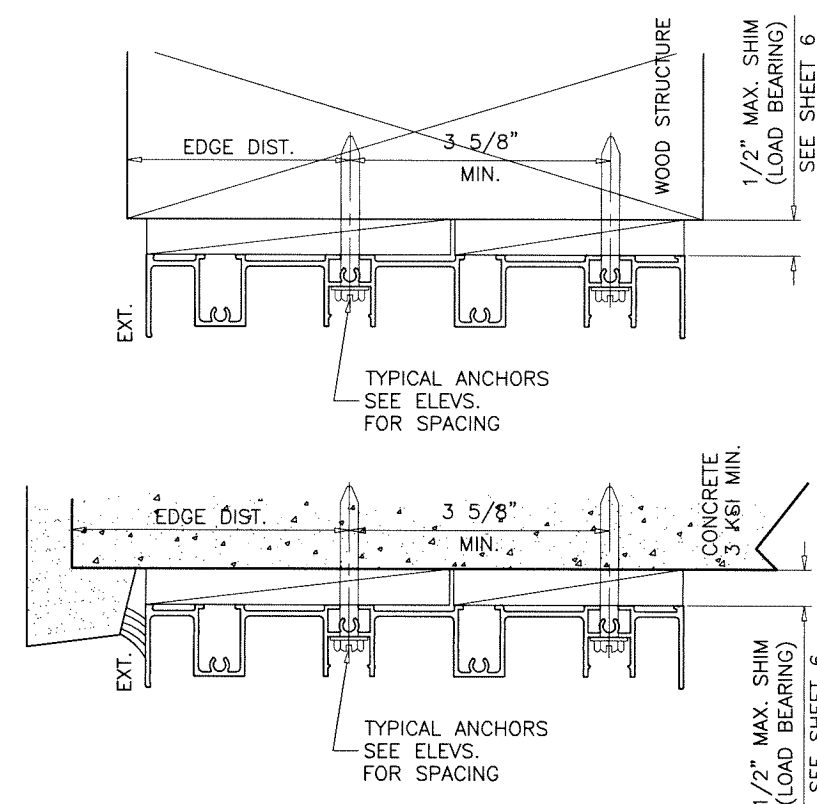
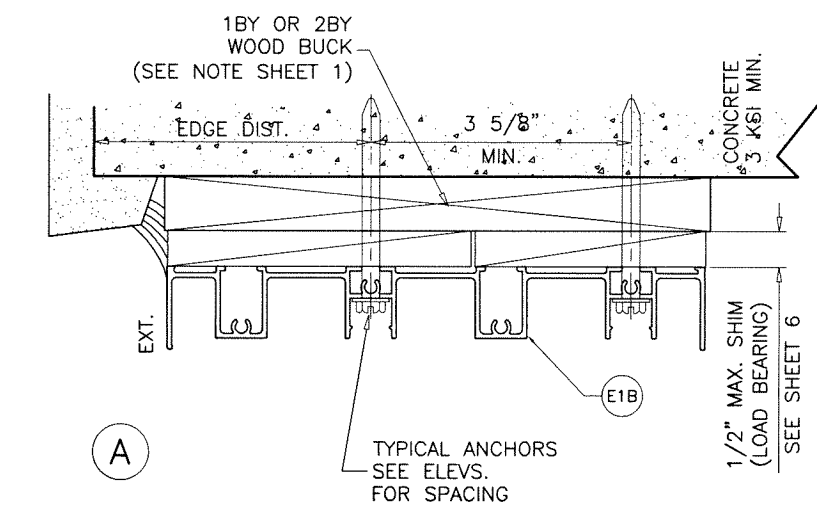
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sheet 18 of 23

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ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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(C.A.N. 3538)

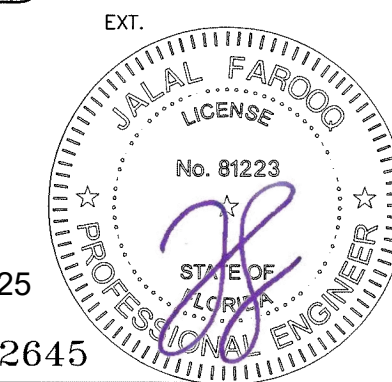
COMP-ANL 24-10F-ES



4 TRACK FRAMES
ANCHOR LOCATIONS

Sealed: 12/11/2025

FL #22645



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ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES-EL400-001	1	FRAME HEAD (2 TRACK)	6063-T6	-
E1A	ES-EL400-201	AS REQD.	FRAME HEAD (3 TRACK)	6063-T6	-
E1B	ES-EL400-205	AS REQD.	FRAME HEAD (4 TRACK)	6063-T6	-
E2	ES-EL400-002	1	FRAME SILL (2 TRACK)	6063-T6	-
E2A	ES-EL400-202	AS REQD.	FRAME SILL (3 TRACK)	6063-T6	-
E2B	ES-EL400-206	AS REQD.	FRAME SILL (4 TRACK)	6063-T6	-
E3	ES-EL400-003	2	FRAME JAMB (2 TRACK)	6063-T6	-
E3A	ES-EL400-203	AS REQD.	FRAME JAMB (3 TRACK)	6063-T6	-
E3B	ES-EL400-207	AS REQD.	FRAME JAMB (4 TRACK)	6063-T6	-
E4	ES-EL400-004	1/ PANEL	TOP RAIL (INSUL. LAM. GLASS)	6063-T6	-
E5	ES-EL400-005	1/ PANEL	BOTTOM RAIL (STANDARD) (INSUL. LAM. GLASS)	6063-T6	-
E5A	ES-EL400-410A	1/ PANEL	BOTTOM RAIL (HI-RISE) (INSUL. LAM. GLASS)	6063-T6	-
E6	ES-EL400-006	AS REQD.	JAMB STILE (INSUL. LAM. GLASS)	6063-T6	-
E7	ES-EL400-007	AS REQD.	INTERLOCK STILE (INSUL. LAM. GLASS)	6063-T6	-
E8	ES-EL400-009	1/ PANEL	TOP RAIL (LAM. GLASS)	6063-T6	-
E9	ES-EL400-010	1/ PANEL	BOTTOM RAIL (STANDARD) (LAM. GLASS)	6063-T6	-
E9A	ES-EL400-409A	1/ PANEL	BOTTOM RAIL (HI-RISE) (LAM. GLASS)	6063-T6	-
E10	ES-EL400-011	AS REQD.	JAMB STILE (LAM. GLASS)	6063-T6	-
E11	ES-EL400-012	AS REQD.	INTERLOCK STILE (LAM. GLASS)	6063-T6	-
E12	ES-EL400-013	AS REQD.	ASTRAGAL STILE (LAM. GLASS)	6063-T6	-
E12A	ES-EL400-008	AS REQD.	ASTRAGAL STILE (INSUL. LAM. GLASS)	6063-T6	-
E13	ES-EL400-014	AS REQD.	JAMB COVER	6063-T5	-
E14	ES-EL400-015	AS REQD.	POCKET JAMB	6063-T6	-
E15	ES-EL400-016	AS REQD.	SILL TRACK	6063-T6	-
E16	ES-EL400-017	AS REQD.	HEAD COVER	6063-T5	-
E17A	ES-2020-008	AS REQD.	SILL RISER	6063-T6	-
E17B	ES-2020-007	AS REQD.	ALT. SILL RISER	6063-T6	-
E17C	ES-2020-041	AS REQD.	ALT. SILL RISER	6063-T6	-
E18	ES-EL400-020	AS REQD.	FIXED PANEL BOTTOM GUIDE	6063-T6	-
E19	ES-EL400-021	AS REQD.	INTERLOCK REINFORCEMENT	6005-T5	-
E20	ES-EL400-401	1	FRAME SILL (2 TRACK)	6063-T6	-
E20A	ES-EL400-403	AS REQD.	FRAME SILL (3 TRACK)	6063-T6	-
E20B	ES-EL400-404	AS REQD.	FRAME SILL (4 TRACK)	6063-T6	-
E26	ES-6011	AS REQD.	SCREW COVER	6063-T6	-
M1	ES2020-G02 (CUT)	4/ PANEL	GLAZING GASKET (LAM. GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M2	SD2020-G05	4/ PANEL	GLAZING GASKET (INSUL. LAM. GLASS)	SILICONE	DUROMETER 70±3 SHORE A
M3	ES2020-G04	AS REQD.	INTERLOCK BUMPER	PVC	DUROMETER 60±5 SHORE D
M4	W33271NK	AS REQD.	PILE W'STRIPPING (INTERLOCK)	WOOL	-
M5	W33181NK	AS REQD.	PILE W'STRIPPING	WOOL	-
M6	PS01-0014	AS REQD.	DOOR HANDLE	DIE CAST ALUM	TWO POINT HANDLE
M7	PS01-1015	AS REQD.	STRIKE FOR MORTISE LOCK	ST. STEEL	-
M8	PS01-1036	AS REQD.	MORTISE 2 POINT LOCK	ST. STEEL	-
M9	GT-R34/3-01-A	2/ PANEL	ROLLER ASSEMBLY	ZAMAK	-
M10	6844.1	AS REQD.	BUMPER	ALUM/NYLON	-
M11	ES-EL400-FPI SL	2/ PANEL	FIX. PANEL CLIPS, AT 12" FROM TOP & BOTTOM	6063-T6	-
M12	#8 X 3/4"	AS REQD.	KEEPER FASTENERS	ST. STEEL	P.H. SMS
M13	#10 X 1-1/4"	AS REQD.	PANEL ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M14	#12 X 1-1/2"	AS REQD.	FRAME ASSEMBLY FASTENERS	ST. STEEL	P.H. SMS
M15	#6 X 3/8"	AS REQD.	FIX. PANEL CLIP FASTENERS	ST. STEEL	P.H. SMS
M16	#8 X 1/2"	AS REQD.	FIX. PANEL CLIP FASTENERS	ST. STEEL	F.H. SMS
M18	#10 X 1/2"	AS REQD.	ROLLER FASTENERS	ST. STEEL	P.H. SMS
M19	#10 X 1"	AS REQD.	LOCK INSTALLATION FASTENERS	ST. STEEL	F.H. SMS
M20	#8 X 1/2"	AS REQD.	HANDLE INSTALLATION FASTENERS	ST. STEEL	F.H. SMS

SEALANT:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH WHITE/ALUMINUM COLORED SILICONE.

LOCK:

SURFACE MOUNT METALLIC HANDLE AT 44" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) #8 X 1/2" FH SMS (M20)

SURFACE MOUNT METALLIC 3 PLY DUAL HOOK LOCK 44" FROM BOTTOM FASTENED TO LOCK STILE WITH (2) #10 X 1" FH SMS

SURFACE MOUNT METALLIC KEEPER AT 44" FROM BOTTOM FASTENED TO FRAME JAMB AND ASTRAGAL STILE WITH (3) #8 X 3/4" PH SMS (M12)



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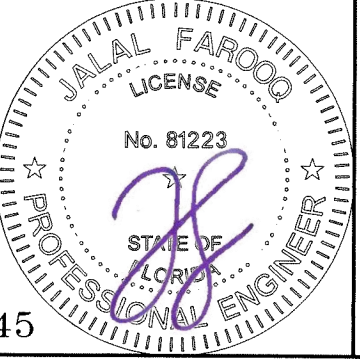
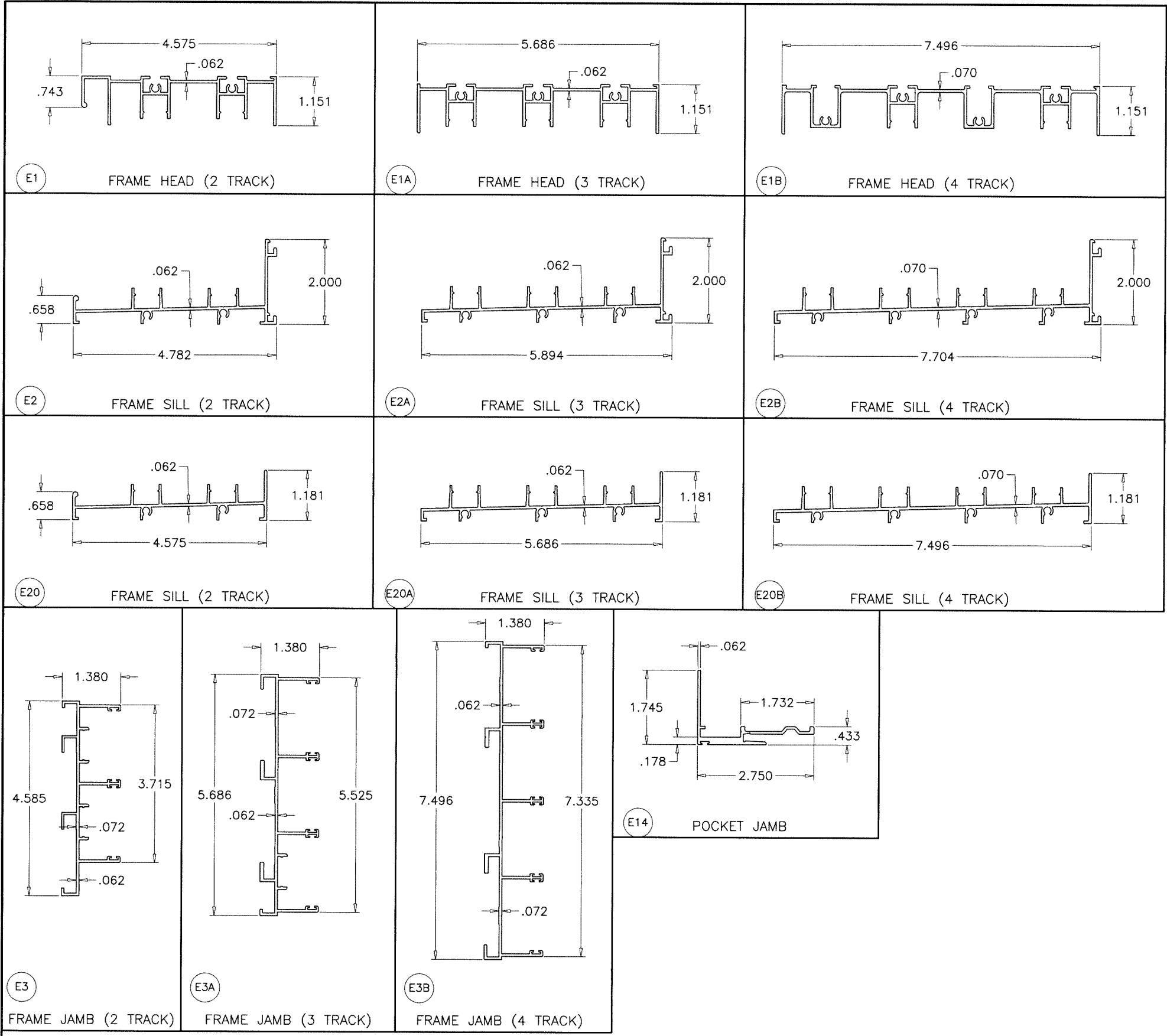
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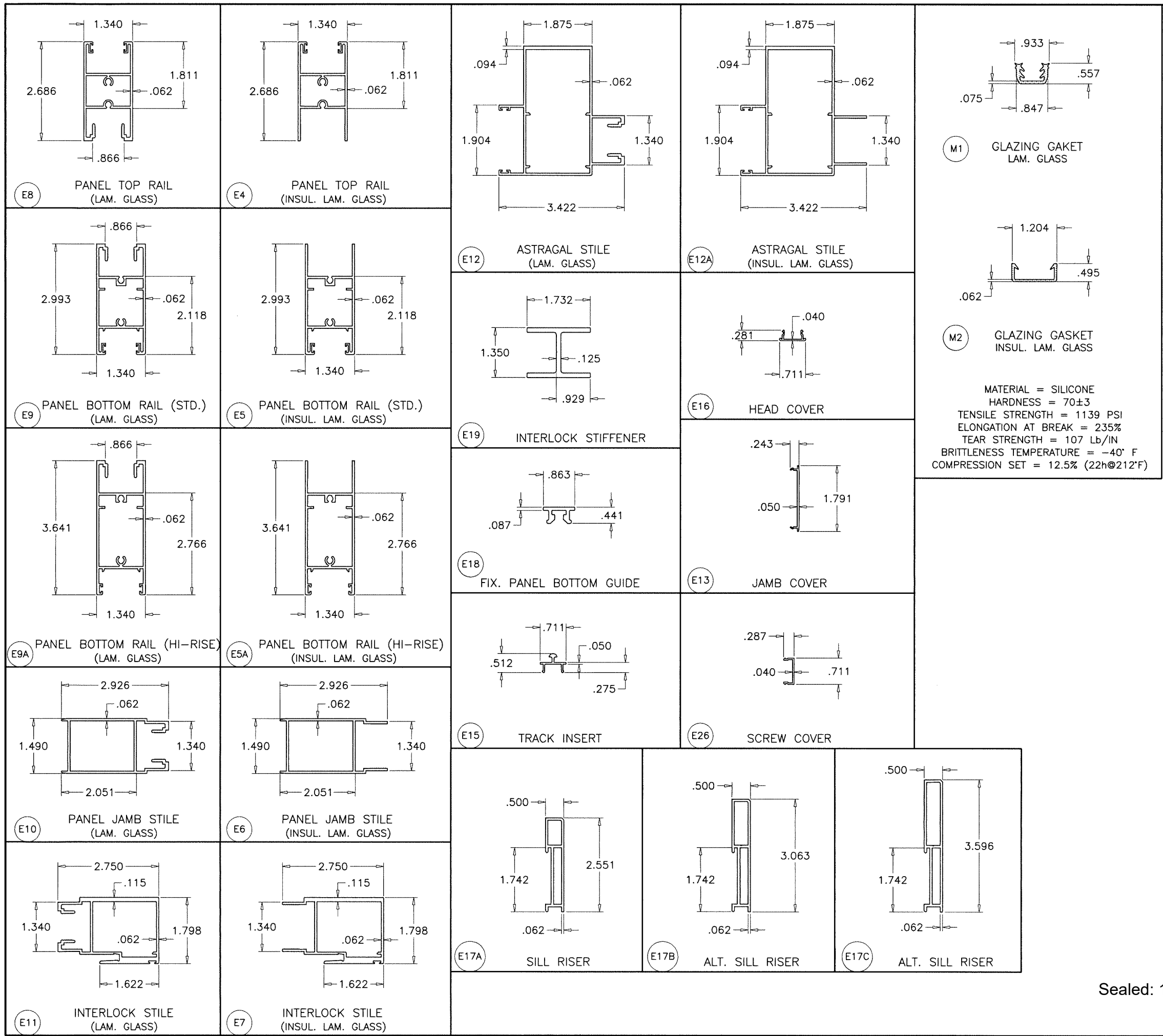
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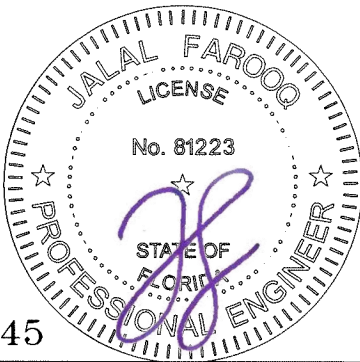
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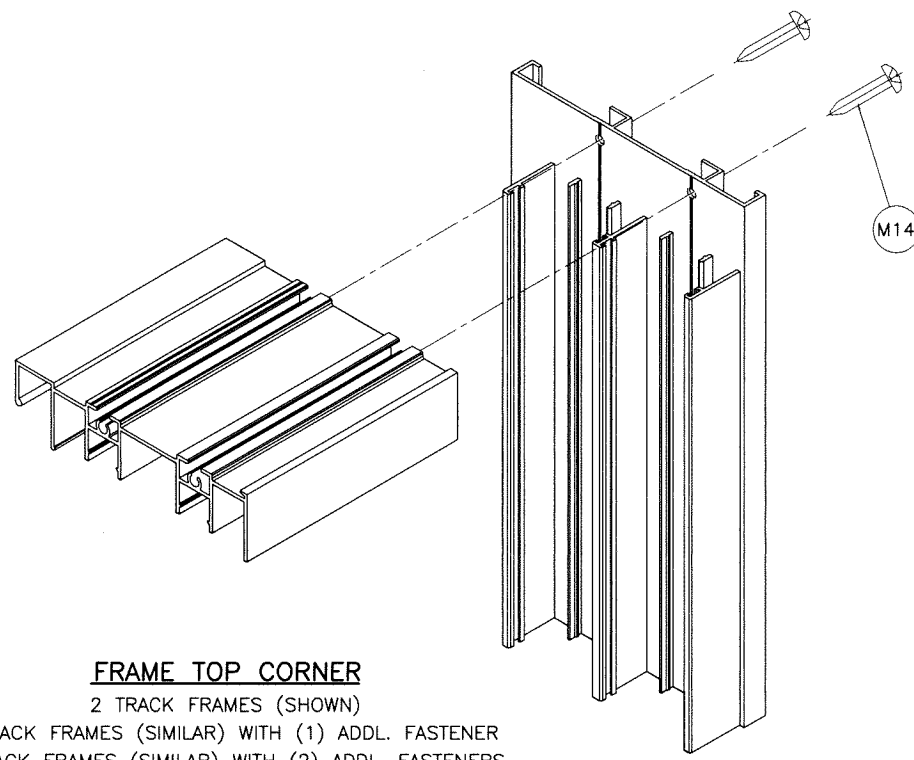
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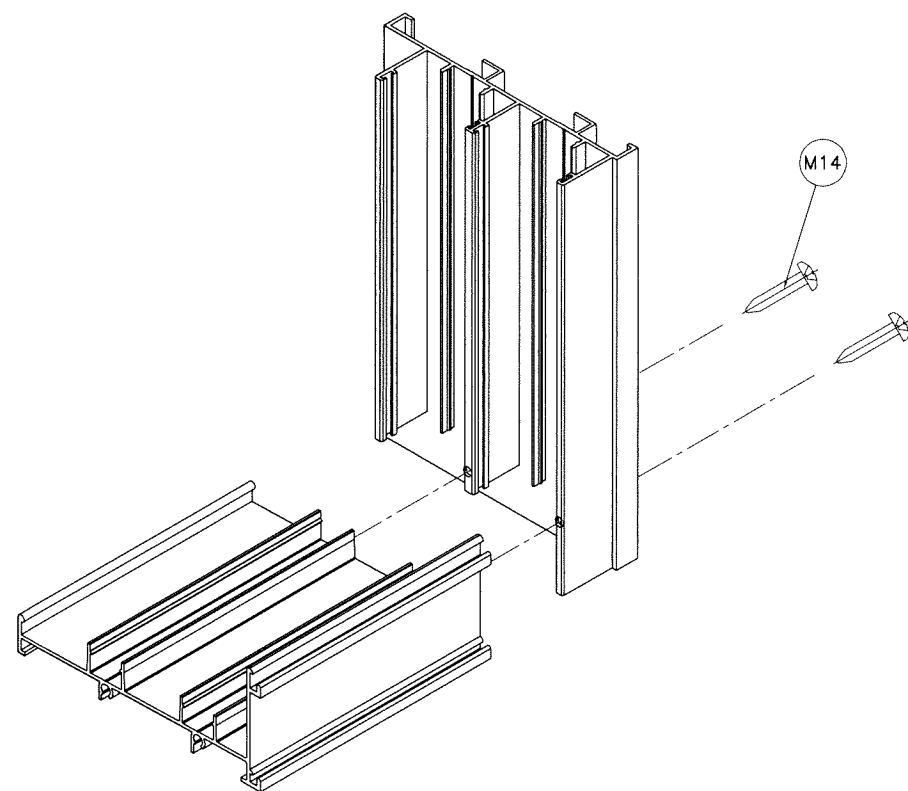
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FRAME TOP CORNER

2 TRACK FRAMES (SHOWN)

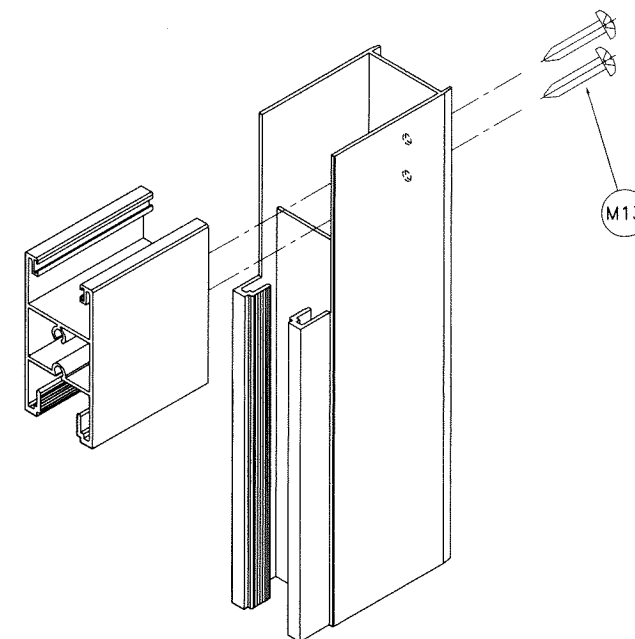
- 3 TRACK FRAMES (SIMILAR) WITH (1) ADDL. FASTENER
- 4 TRACK FRAMES (SIMILAR) WITH (2) ADDL. FASTENERS



FRAME BOTTOM CORNER

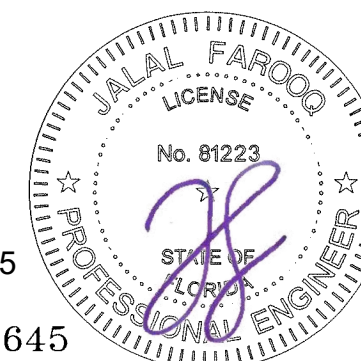
2 TRACK FRAMES (SHOWN)

- 3 TRACK FRAMES (SIMILAR) WITH (1) ADDL. FASTENER
- 4 TRACK FRAMES (SIMILAR) WITH (2) ADDL. FASTENERS



PANEL TOP/BOTTOM CORNER

LAM. GLASS RAIL & STILE (SHOWN)
INSUL. LAM. GLASS RAIL & STILE (SIMILAR)



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