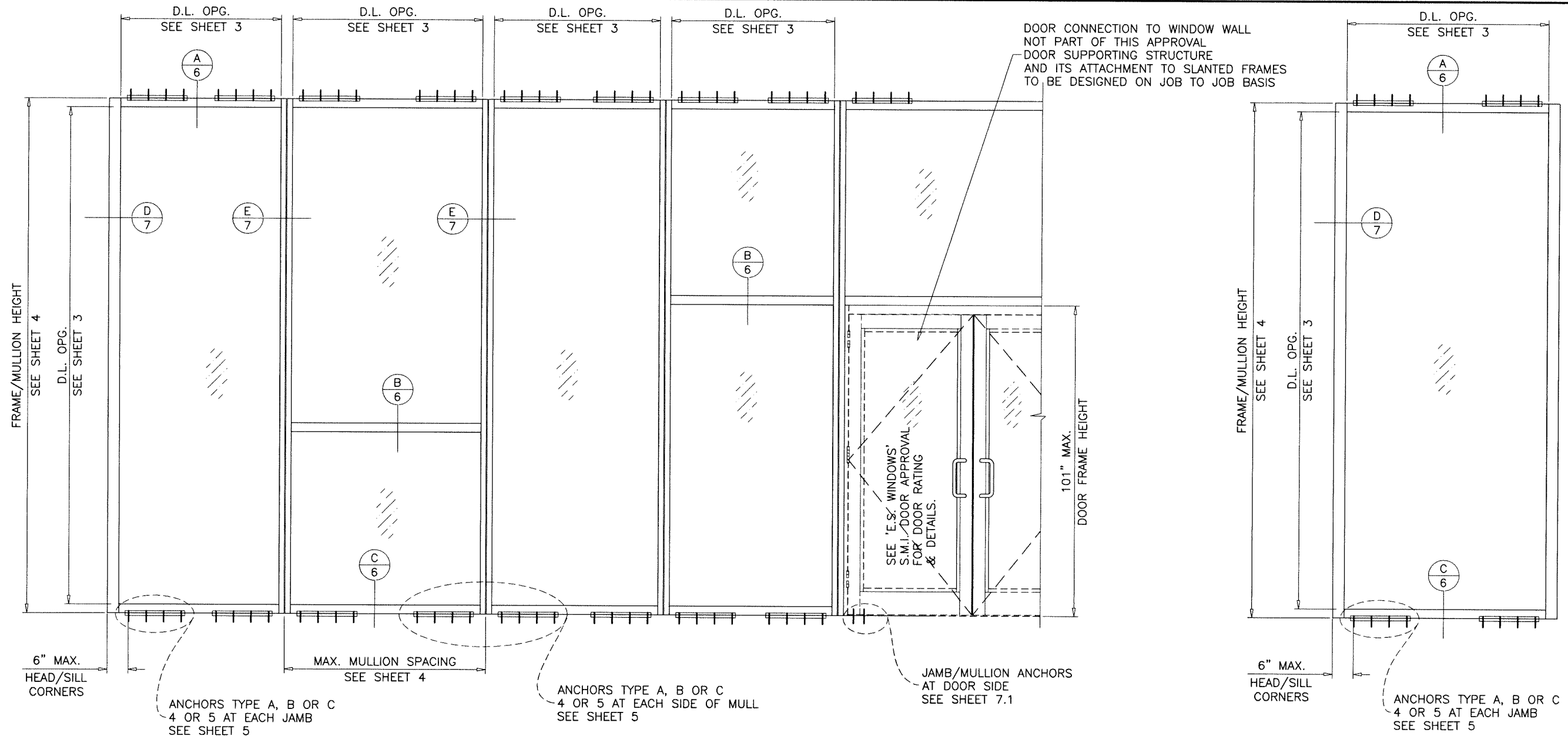




ES-WW1032 (SLANTED) ALUMINUM WINDOW WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPR'D LARGE SMALL IMPACT RESISTANT DOORS.
LOWER DESIGN PRESSURE FROM WINDOW WALL SYSTEM OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION)/2026 (9TH 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 LOAD-BEARING, (HIGH DENSITY PLASTIC/COMPOSITE, METAL OR OTHER RIGID MATERIALS).

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2023/2026 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)'.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 3 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEET 5 SELECT ANCHOR OPTION WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 6** FOR SYSTEMS WITH UNANCHORED JAMBS, USING SHEET 7, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.
- STEP 7** WHEN USING THIS SYSTEM WITH DOORS, THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.

TYPICAL ELEVATIONS

THIS SYSTEM IS 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.

FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

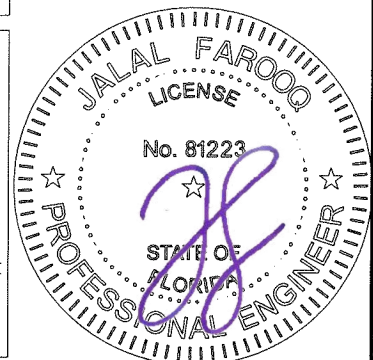
Sealed: 9/2/2026

LAMINATED GLASS
SMALL MISSILE IMPACT

FL #18410

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1.

- 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.

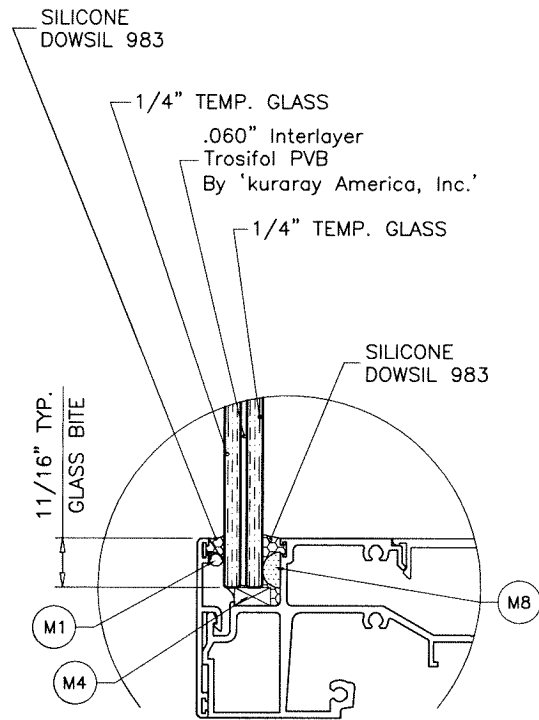
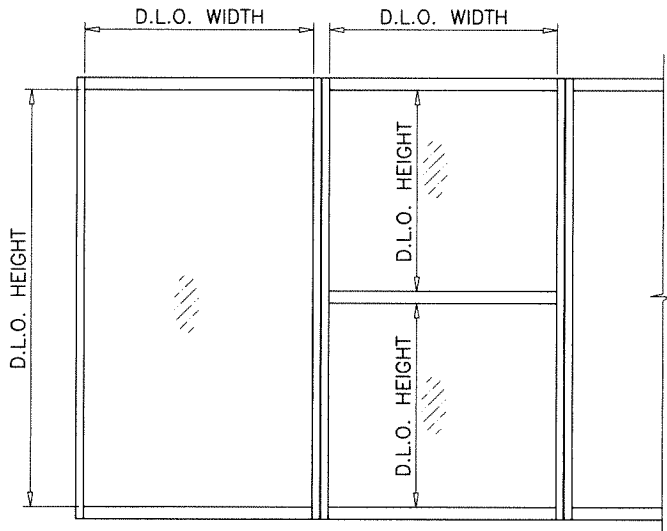


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ES-WW1032 SLANTED WINDOW WALL SYS. (S.M.I.)
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		date	by	description
no	date	by	description	
A	09.01.26			UPDATED TO 2026 FBC
date: 04-24-25				
scale: 3/8"=1'-0"				
dr. by: TARIQ				
chk. by:				
drawing no.				
25-51F				
sheet 1 of 9				

GLASS DESIGN LOAD CAPACITY – PSF			
NOMINAL DIMS.		9/16" LAM. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)
26-3/4"	82-1/2"	168.0	168.0
32-3/4"		168.0	168.0
38-3/4"		168.0	168.0
44-3/4"		168.0	168.0
50-3/4"		168.0	168.0
56-3/4"		168.0	168.0
62-3/4"		151.9	151.9
68-3/4"		138.7	138.7
74-3/4"		127.5	127.5
26-3/4"	94-1/2"	168.0	168.0
32-3/4"		168.0	168.0
38-3/4"		168.0	168.0
44-3/4"		168.0	168.0
50-3/4"		168.0	168.0
56-3/4"		168.0	168.0
62-3/4"		151.9	151.9
68-3/4"		138.7	138.7
26-3/4"	106-1/2"	168.0	168.0
32-3/4"		168.0	168.0
38-3/4"		168.0	168.0
44-3/4"		168.0	168.0
50-3/4"		168.0	168.0
56-3/4"		168.0	168.0
62-3/4"		151.9	151.9
68-3/4"		138.7	138.7
26-3/4"	118-1/2"	168.0	168.0
32-3/4"		168.0	168.0
38-3/4"		168.0	168.0
44-3/4"		168.0	168.0
50-3/4"		168.0	168.0
56-3/4"		168.0	168.0
62-3/4"		151.9	151.9
68-3/4"		138.7	138.7
26-3/4"	130-1/2"	168.0	168.0
32-3/4"		168.0	168.0
38-3/4"		168.0	168.0
44-3/4"		168.0	168.0
50-3/4"		168.0	168.0
56-3/4"		168.0	168.0
62-3/4"		151.9	151.9
68-3/4"		138.7	138.7
26-3/4"	142-1/2"	168.0	168.0
32-3/4"		168.0	168.0
38-3/4"		168.0	168.0
44-3/4"		168.0	168.0
50-3/4"		168.0	168.0
56-3/4"		168.0	168.0
62-3/4"		151.9	151.9
68-3/4"		138.7	138.7
26-3/4"	154-1/2"	168.0	168.0
32-3/4"		168.0	168.0
38-3/4"		168.0	168.0
44-3/4"		168.0	168.0
50-3/4"		168.0	168.0
56-3/4"		168.0	168.0
62-3/4"		151.9	151.9
68-3/4"		138.7	138.7
26-3/4"	163"	168.0	168.0
32-3/4"		168.0	168.0
38-3/4"		168.0	168.0
44-3/4"		168.0	168.0
50-3/4"		168.0	168.0
56-3/4"		168.0	168.0
62-3/4"		151.9	151.9
68-3/4"		138.7	138.7



GLAZING DETAIL

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-16 (3 SEC. GUSTS).

GLASS

FL #18410



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AL-FAROOQ CORPORATION
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revisions:
no. date by description

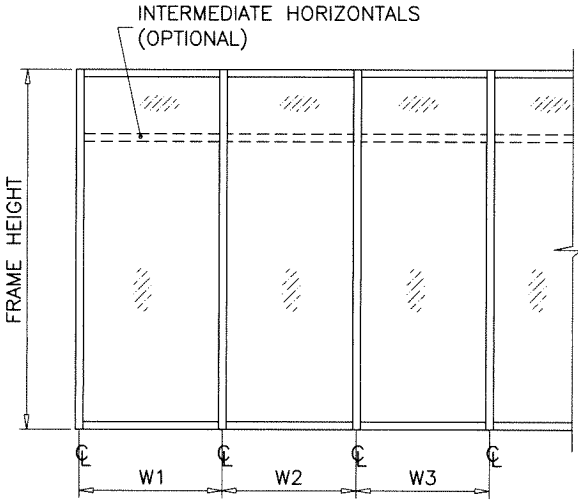
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drawing no.
25-51F
sheet 2 of 9

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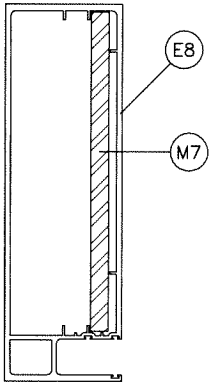
JAMB & MULLION DESIGN LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J'		MULLION 'M'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30"	96"	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0
42"		168.0	168.0	168.0	168.0
48"		168.0	168.0	168.0	168.0
54"		168.0	168.0	168.0	168.0
60"		168.0	168.0	168.0	168.0
66"		168.0	168.0	168.0	168.0
72"		168.0	168.0	168.0	168.0
78"		168.0	168.0	168.0	168.0
30"	108"	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0
42"		168.0	168.0	168.0	168.0
48"		168.0	168.0	168.0	168.0
54"		168.0	168.0	168.0	168.0
60"		168.0	168.0	168.0	168.0
66"		168.0	168.0	168.0	168.0
72"		168.0	168.0	168.0	168.0
78"		168.0	168.0	168.0	168.0
30"	120"	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0
42"		168.0	168.0	168.0	168.0
48"		168.0	168.0	168.0	168.0
54"		168.0	168.0	168.0	168.0
60"		168.0	168.0	168.0	168.0
66"		168.0	168.0	168.0	168.0
72"		168.0	168.0	168.0	168.0
78"		168.0	168.0	168.0	168.0
30"	132"	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0
42"		168.0	168.0	168.0	168.0
48"		168.0	168.0	168.0	168.0
54"		168.0	168.0	168.0	168.0
60"		168.0	168.0	168.0	168.0
66"		168.0	168.0	168.0	168.0
72"		168.0	168.0	168.0	168.0
30"	144"	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0
42"		168.0	168.0	168.0	168.0
48"		168.0	168.0	168.0	168.0
54"		168.0	168.0	168.0	168.0
60"		168.0	168.0	168.0	168.0
66"		168.0	168.0	168.0	168.0
72"		168.0	168.0	168.0	168.0

JAMB & MULLION DESIGN LOAD CAPACITY - PSF WITH OR WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J'		MULLION 'M'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
30"	156"	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0
42"		168.0	168.0	168.0	168.0
48"		168.0	168.0	168.0	168.0
54"		168.0	168.0	168.0	168.0
60"		168.0	168.0	168.0	168.0
30"	168"	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0
42"		168.0	168.0	168.0	168.0
48"		168.0	168.0	168.0	168.0
54"		168.0	168.0	168.0	168.0
60"		168.0	168.0	168.0	168.0



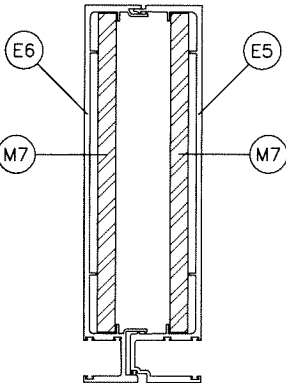
WIDTH (W) = W1
AT JAMB

WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION



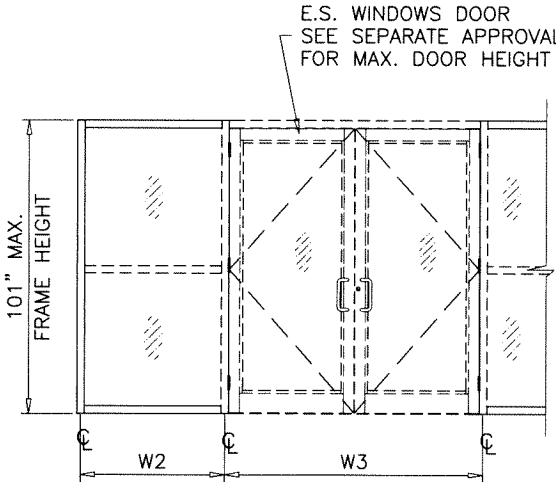
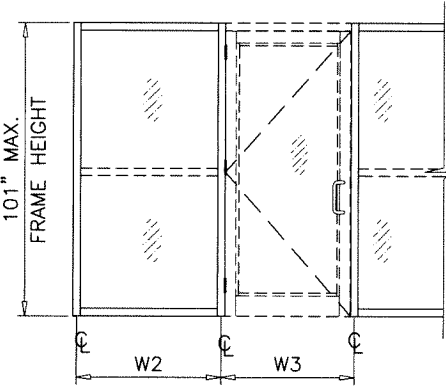
JAMB 'J'

	Ix IN^4	Sx IN^3
ALUMINUM	64.028	11.707
STEEL	28.838	6.490
TOTAL Ix ALUM + Ix STL X 2.9	147.660	



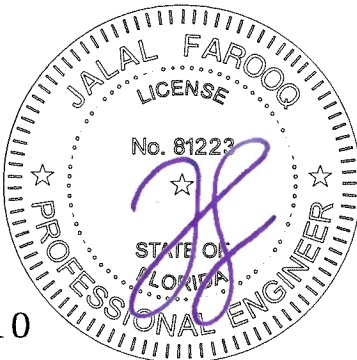
MULLION 'M'

	Ix IN^4	Sx IN^3
ALUMINUM	65.589	11.652
STEEL	57.676	12.987
TOTAL Ix ALUM + Ix STL X 2.9	232.852	



Sealed: 9/2/2026

MULLION



FL #18410

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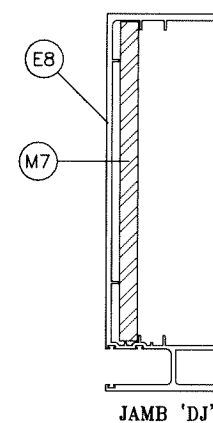
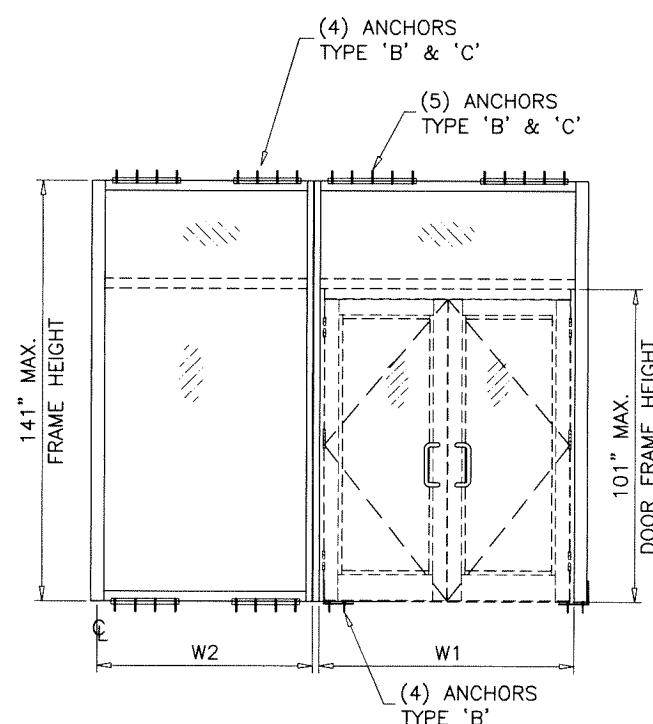
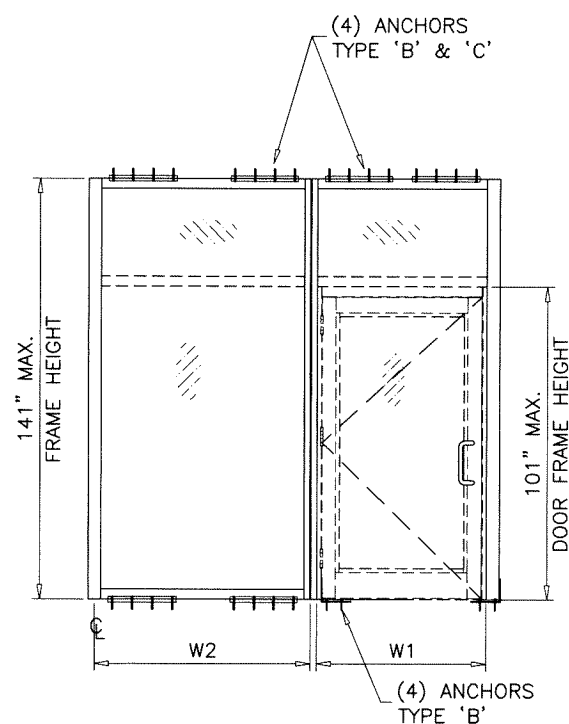
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date: 04-24-25
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chk. by:
drawing no.
25-51F
sheet 3 of 9

DOOR JAMB/MULLION LOAD CAPACITY – PSF							
NOMINAL DIMS.				JAMB/MULLION 'DJ' & 'DM'			
DOOR HEIGHT INCHES	FRAME HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT.(+)	INT.(-)		
84	108	72	48	156.0	156.0		
			54	156.0	156.0		
			60	156.0	156.0		
		76-1/2	48	156.0	156.0		
			54	156.0	156.0		
			60	156.0	156.0		
			120	72	48	156.0	156.0
					54	156.0	156.0
					60	156.0	156.0
	76-1/2	48		156.0	156.0		
		54		156.0	156.0		
		60		156.0	156.0		
		132	72	48	156.0	156.0	
				54	156.0	156.0	
				60	156.0	156.0	
	76-1/2		48	156.0	156.0		
			54	156.0	156.0		
			60	156.0	156.0		
			141	72	48	156.0	156.0
					54	156.0	156.0
					60	156.0	156.0
	76-1/2	48		156.0	156.0		
		54		156.0	156.0		
		60		156.0	156.0		

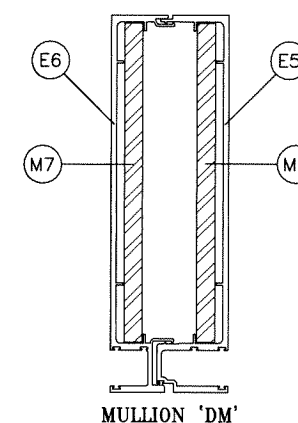
DOOR JAMB/MULLION LOAD CAPACITY – PSF					
NOMINAL DIMS.				JAMB/MULLION 'DJ' & 'DM'	
DOOR HEIGHT INCHES	FRAME HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT.(+)	INT.(–)
90	108	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76–1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	120	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76–1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	132	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76–1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	141	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76–1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0

DOOR JAMB/MULLION LOAD CAPACITY – PSF					
NOMINAL DIMS.				JAMB/MULLION 'DJ' & 'DM'	
DOOR HEIGHT INCHES	FRAME HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT.(+)	INT.(–)
96	108	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	120	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	132	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	141	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0

DOOR JAMB/MULLION LOAD CAPACITY – PSF					
NOMINAL DIMS.				JAMB/MULLION 'DJ' & 'DM'	
DOOR HEIGHT INCHES	FRAME HEIGHT INCHES	WIDTH (W1) INCHES	WIDTH (W2) INCHES	EXT.(+)	INT.(–)
101	120	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	132	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
		76-1/2	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
	141	72	48	156.0	156.0
			54	156.0	156.0
			60	156.0	156.0
76-1/2		48	156.0	156.0	
		54	156.0	156.0	
		60	156.0	156.0	



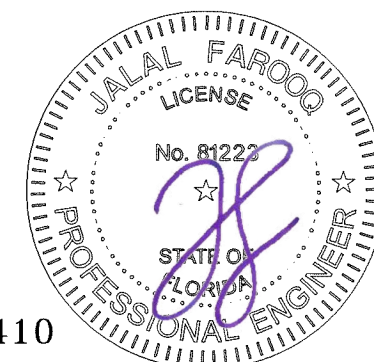
	$\sum x_i^2$	$\sum x_i^3$
ALUMINUM	64.028	11.707
STEEL	28.838	6.490
TOTAL $\sum x_{ALUM} + \sum x_{STEEL}$	147.660	



	Ix IN^4	Sx IN^3
ALUMINUM	65.589	11.652
STEEL	57.676	12.987
TOTAL Ix ALUM + Ix STL x 2.9	232.852	

Sealed: 9/2/2026

DOOR MULLION



FL #18410

ES-WW1032 SLANTED WINDOW WALL SYS. (S.M.I.)

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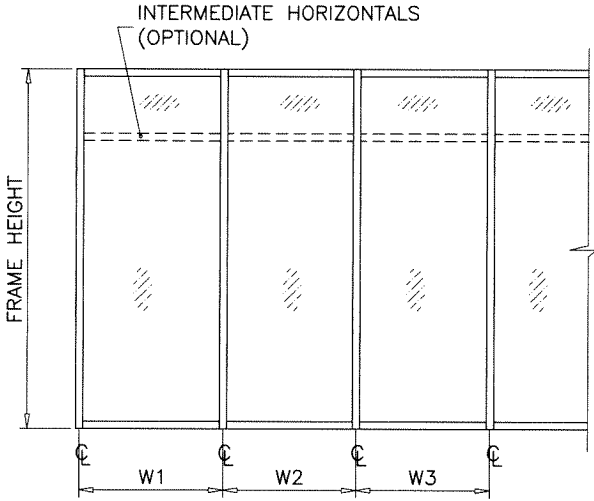
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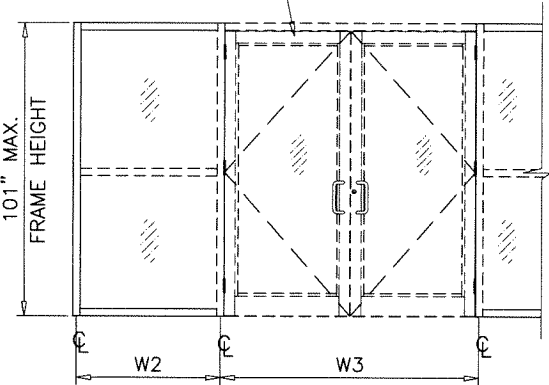
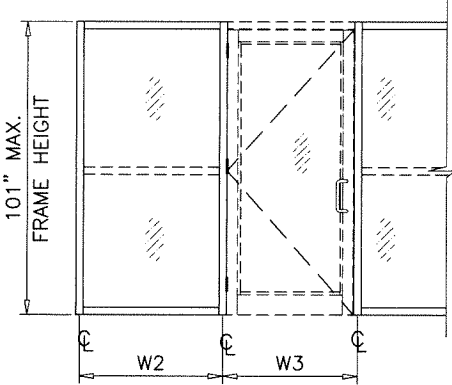
ANCHOR DESIGN LOAD CAPACITY - PSF							
EXT.(+) & INT.(−)							
NOMINAL DIMS.		ANCHOR TYPE 'A'		ANCHOR TYPE 'B'		ANCHOR TYPE 'C'	
WIDTH (W)	FRAME HEIGHT	A4	A5	B4	B5	C4	C5
30"	96"	168.0	168.0	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0	168.0	168.0
42"		168.0	168.0	168.0	168.0	168.0	168.0
48"		168.0	168.0	168.0	168.0	168.0	168.0
54"		168.0	168.0	168.0	168.0	168.0	168.0
60"		168.0	168.0	168.0	168.0	168.0	168.0
66"		162.1	168.0	168.0	168.0	168.0	168.0
72"		148.6	168.0	168.0	168.0	168.0	168.0
78"		137.2	168.0	168.0	168.0	168.0	168.0
30"	108"	168.0	168.0	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0	168.0	168.0
42"		168.0	168.0	168.0	168.0	168.0	168.0
48"		168.0	168.0	168.0	168.0	168.0	168.0
54"		168.0	168.0	168.0	168.0	168.0	168.0
60"		158.5	168.0	168.0	168.0	168.0	168.0
66"		144.1	168.0	168.0	168.0	168.0	168.0
72"		132.1	165.1	168.0	168.0	168.0	168.0
78"		121.9	152.4	168.0	168.0	168.0	168.0
30"	120"	168.0	168.0	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0	168.0	168.0
42"		168.0	168.0	168.0	168.0	168.0	168.0
48"		168.0	168.0	168.0	168.0	168.0	168.0
54"		158.5	168.0	168.0	168.0	168.0	168.0
60"		142.7	168.0	168.0	168.0	168.0	168.0
66"		129.7	162.1	168.0	168.0	168.0	168.0
72"		118.9	148.6	168.0	168.0	168.0	168.0
78"		109.7	137.2	168.0	168.0	168.0	168.0
30"	132"	168.0	168.0	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0	168.0	168.0
42"		168.0	168.0	168.0	168.0	168.0	168.0
48"		162.1	168.0	168.0	168.0	168.0	168.0
54"		144.1	168.0	168.0	168.0	168.0	168.0
60"		129.7	162.1	168.0	168.0	168.0	168.0
66"		117.9	147.4	168.0	168.0	168.0	168.0
72"		108.1	135.1	168.0	168.0	168.0	168.0
30"	144"	168.0	168.0	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0	168.0	168.0
42"		168.0	168.0	168.0	168.0	168.0	168.0
48"		148.6	168.0	168.0	168.0	168.0	168.0
54"		132.1	165.1	168.0	168.0	168.0	168.0
60"		118.9	148.6	168.0	168.0	168.0	168.0
66"		108.1	135.1	168.0	168.0	168.0	168.0
72"		99.1	123.8	159.0	168.0	160.3	168.0
30"	156"	168.0	168.0	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0	168.0	168.0
42"		156.8	168.0	168.0	168.0	168.0	168.0
48"		137.2	168.0	168.0	168.0	168.0	168.0
54"		121.9	152.4	168.0	168.0	168.0	168.0
60"		109.7	137.2	168.0	168.0	168.0	168.0
30"	168"	168.0	168.0	168.0	168.0	168.0	168.0
36"		168.0	168.0	168.0	168.0	168.0	168.0
42"		145.6	168.0	168.0	168.0	168.0	168.0
48"		127.4	159.2	168.0	168.0	168.0	168.0
54"		113.2	141.5	168.0	168.0	168.0	168.0
60"		101.9	127.4	163.5	168.0	164.8	168.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

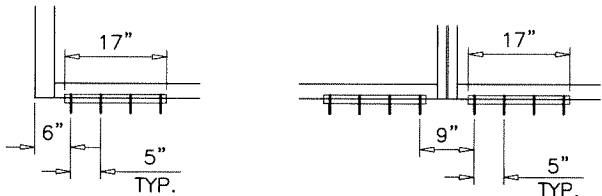


WIDTH (W) = W1
AT JAMB

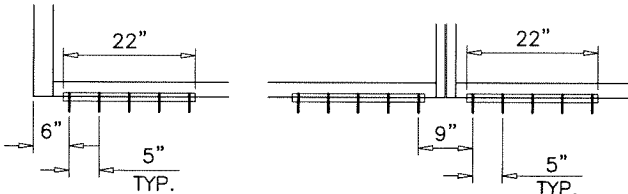
WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION



E.S. WINDOWS DOOR
SEE SEPARATE APPROVAL
FOR MAX. DOOR HEIGHT



A4, B4, C4



A5, B5, C5

ANCHORS TYPES: SEE SHEET 6 FOR DESCRIPTION

A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
A5 = (5) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION

B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
B5 = (5) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION

C4 = (4) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION
C5 = (5) ANCHORS TYPE 'C' AT EACH SIDE OF JAMB AND MULLION

ANCHOR

FL #18410



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af c

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-WW1032 SLANTED WINDOW WALL SYS. (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: 04-24-25

scale: -

dr. by: TARIQ

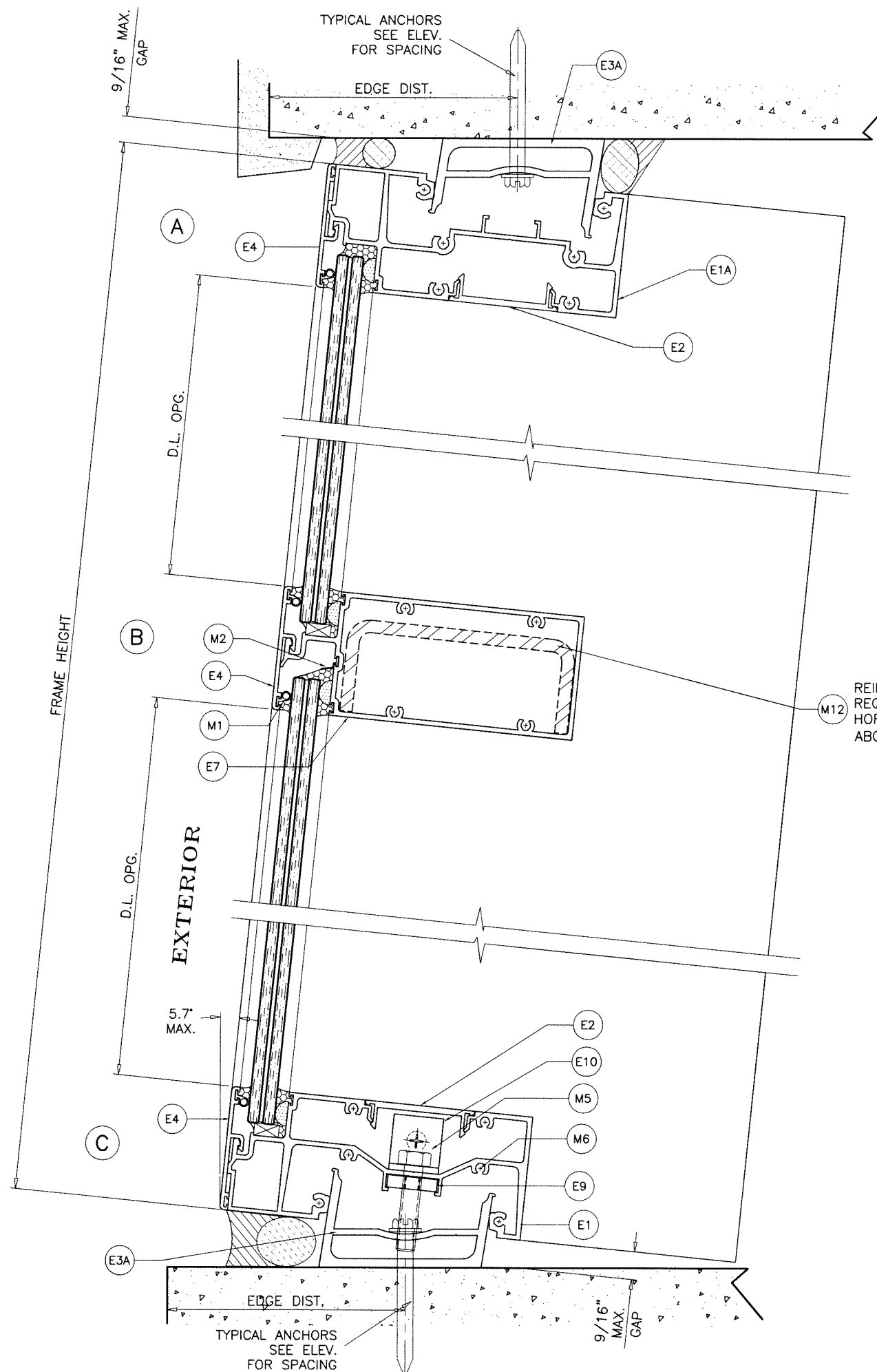
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drawing no.

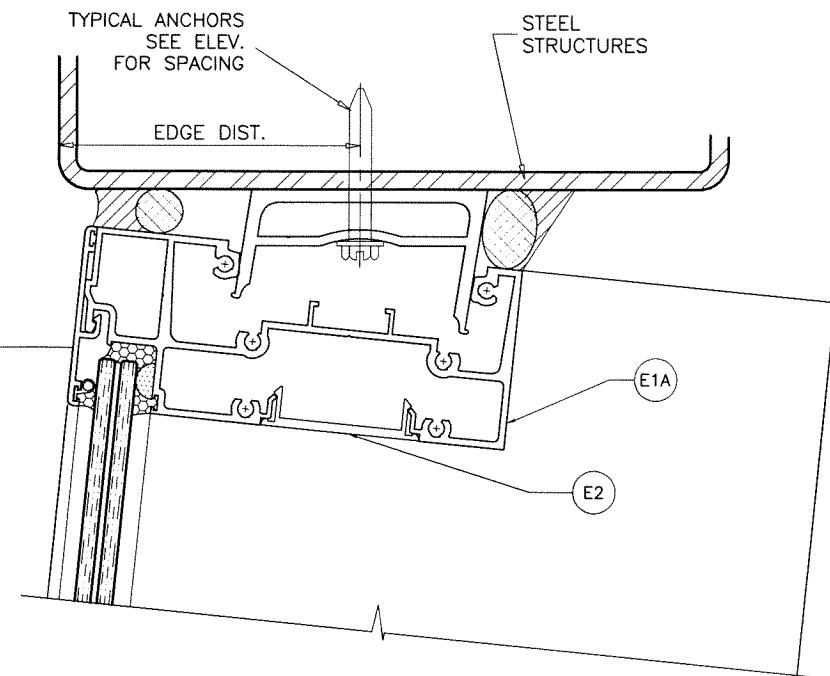
25-51F

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REINF. CHANNEL
REQD. FOR
HORIZONTAL LENGTHS
ABOVE 56-3/4" ONLY



METAL STRUCTURES NOT BY E.S. WDW.
MUST SUPPORT 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' (Fu=177 KSI, Fy=155 KSI)

DIRECTLY INTO CONCRETE (3515 PSI MIN.)
2" MIN. EMBED INTO CONCRETE, 5" O.C. MIN.

ANCHOR EDGE DISTANCES

INTO CONCRETE = 3-1/8" MIN.

TYPE 'B'

3/8" DIA SCREW-BOLT+ BY 'DEWALT'

DIRECTLY INTO CONCRETE (4000 PSI MIN.)
3-1/4" MIN. EMBED INTO CONCRETE, 5" O.C. MIN.

ANCHOR EDGE DISTANCES

INTO CONCRETE = 4-1/2" MIN.

TYPE 'C'

5/16" DIA. DRIL-FLEX SELF DRILLING SCREWS (Fu=120 KSI, Fy=95 KSI)

INTO METAL STRUCTURES, 3" O.C. MIN.
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
STEEL: 1/4" THK. MIN. (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

ANCHOR EDGE DISTANCES

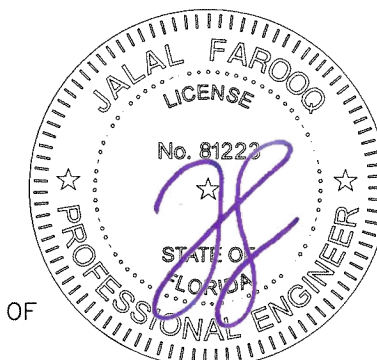
INTO METAL STRUCTURE = 1" MIN.

SEALANTS:

ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER OF
GLAZING BEAD TO FRAME SEALED WITH SILICONE SEALANT.

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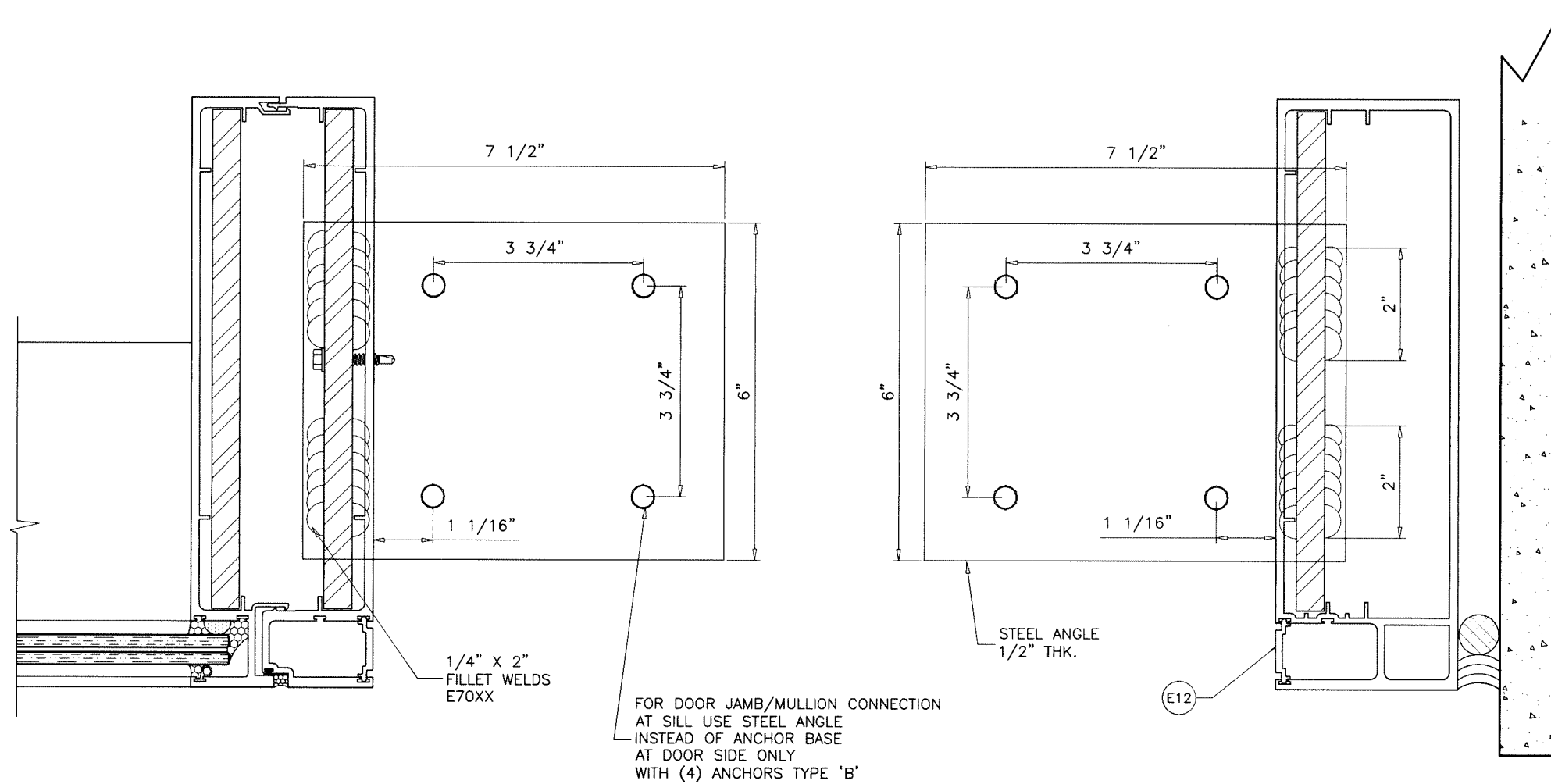
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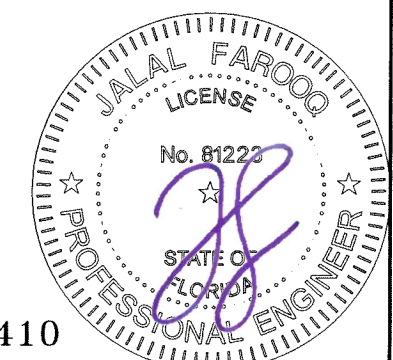
revisions:
no date by description

date: 04-24-25
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
25-51F
sheet 6 of 9



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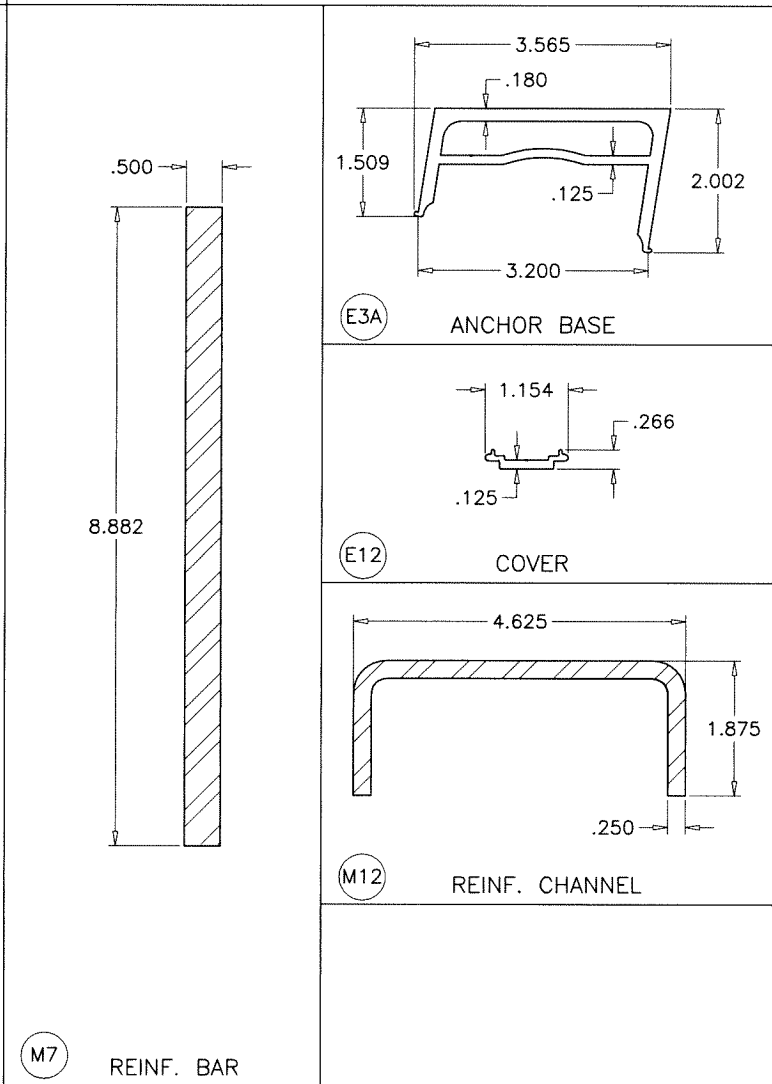
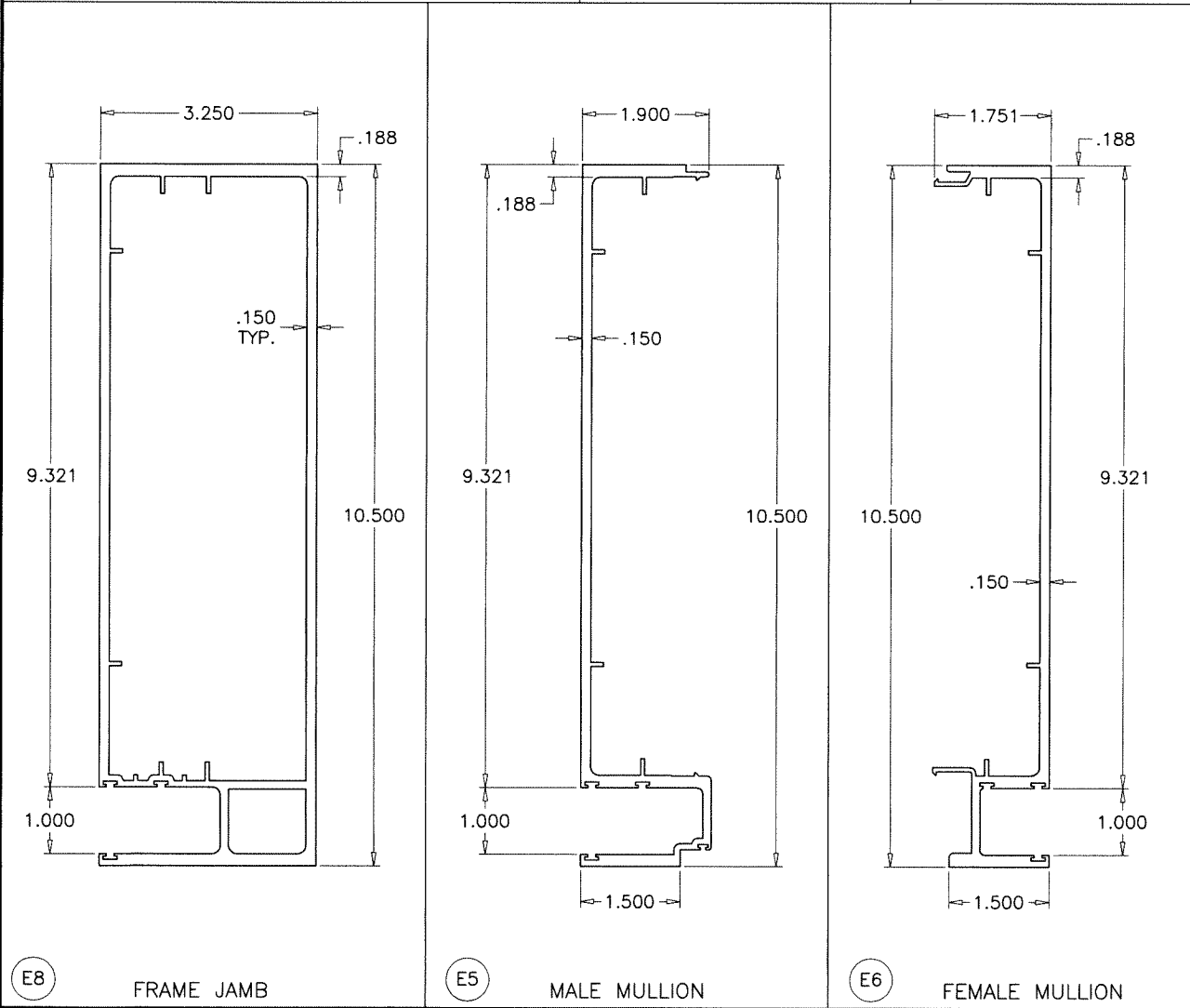
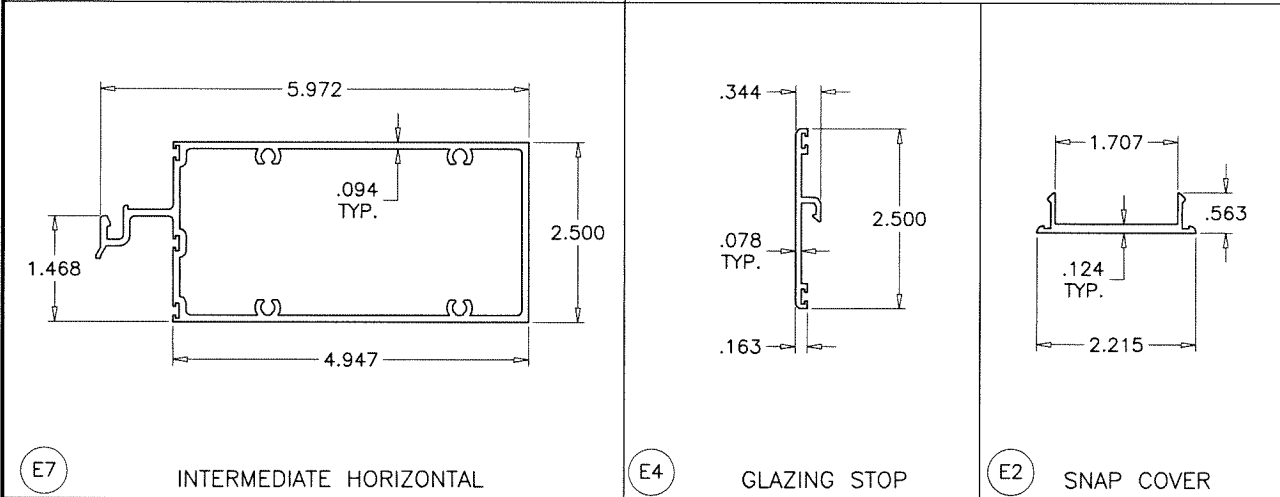
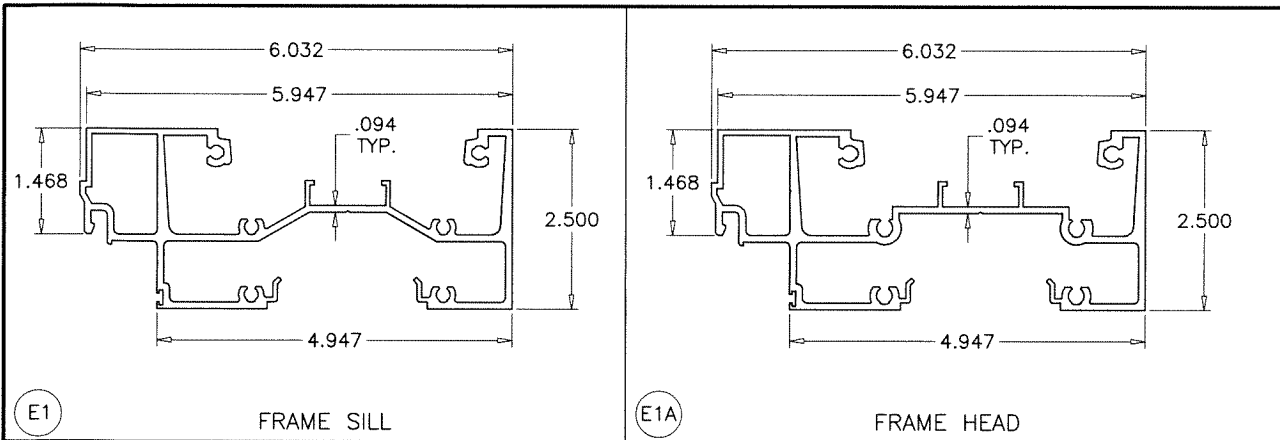
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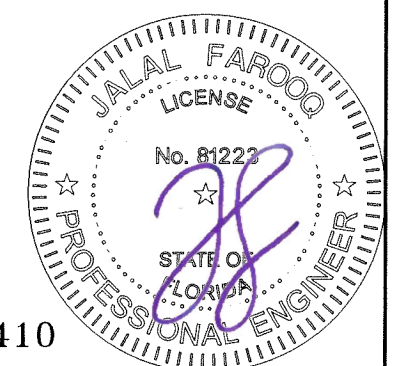
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date: 04-24-25
scale: 3/8" = 1"
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25-51F
sheet 7.1 of 9



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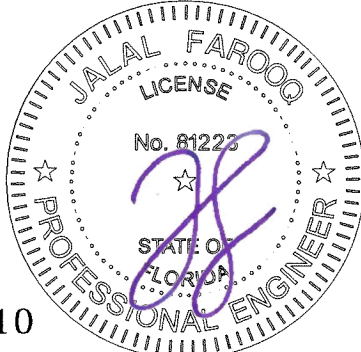
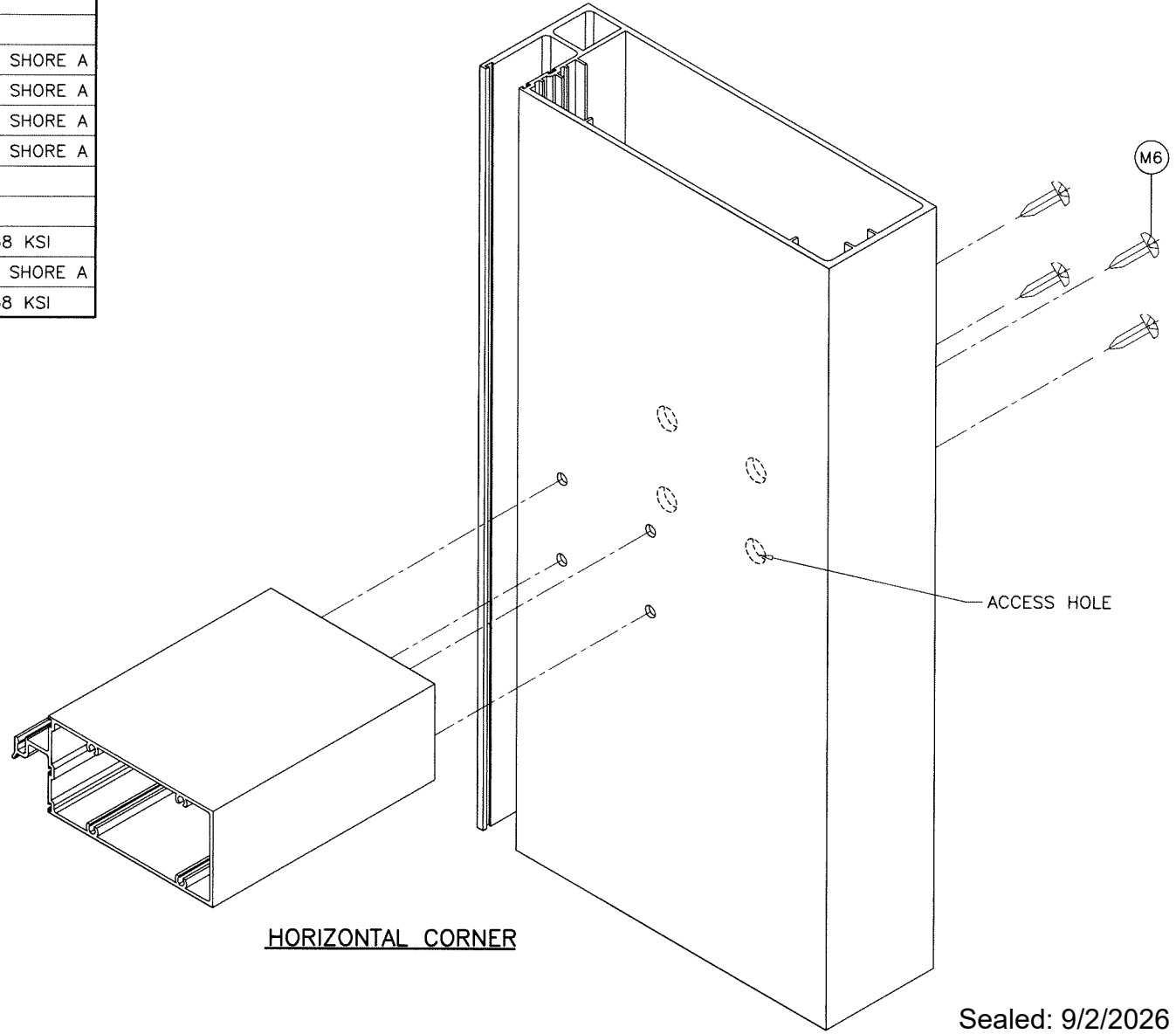
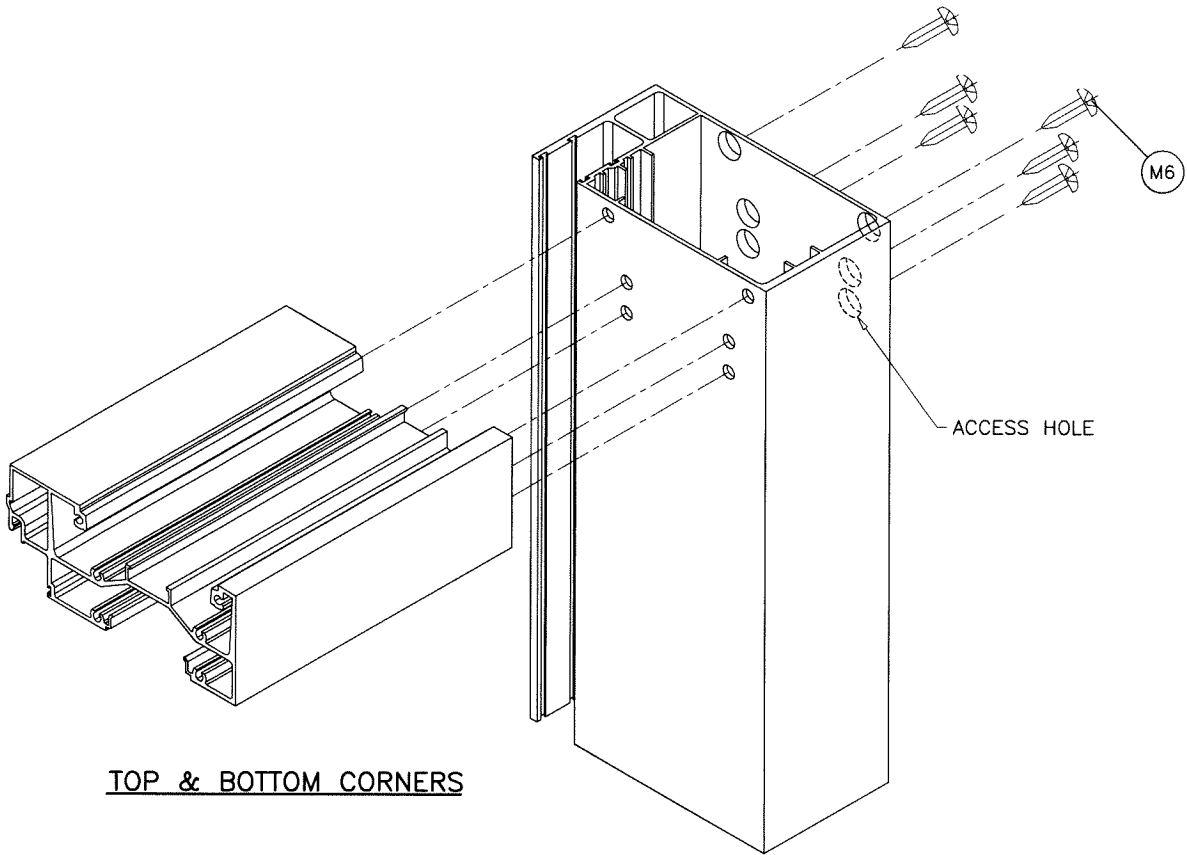
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				25-51F
				sheet 8 of 9

ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES7001A	AS REQD.	FRAME SILL	6005-T5	-
E1A	ES-WW1032-001	AS REQD.	FRAME HEAD	6005-T5	-
E2	ES7003A	AS REQD.	SNAP COVER	6063-T5	-
E3A	ES-8860-039	AS REQD.	ANCHOR BASE (SEE SHEET 5 FOR LENGTHS)	6005-T5	-
E4	ES7006	AS REQD.	GLAZING STOP	6063-T6	-
E5	ES-WW1032-003	AS REQD.	MALE MULLION	6005-T5	-
E6	ES-WW1032-002	AS REQD.	FEMALE MULLION	6005-T5	-
E7	ES7005	AS REQD.	INTERMEDIATE HORIZONTAL	6005-T5	-
E8	ES-WW1032-004	AS REQD.	FRAME JAMB	6005-T5	-
E9	ALU-P-020	AS REQD.	SILL LEVELER (1" X 1")	ALUMINUM	-
E10	-	AS REQD.	ALUMINUM ANGLE (1" X 1" X 1/8")	6063-T6	-
E12	ES-7032	AS REQD.	COVER	6063-T6	-
M1	ES7000-G01	AS REQD.	EXTERIOR GLASS SEAL	SANTOPRENE	DUROMETER 60±5 SHORE A
M2	ES7000-G02	AS REQD.	SILICONE DAM	SANTOPRENE	DUROMETER 60±5 SHORE A
M3	ES7000-G03	AS REQD.	SILICONE SEPARATOR	SANTOPRENE	DUROMETER 60±5 SHORE A
M4	80-378	2/ LITE	SETTING BLOCK	EPDM	DUROMETER 85±5 SHORE A
M5	3/8" BOLT	AS REQD.	LEVELING SCREW	ST/ST	-
M6	#12 X 1"	AS REQD.	FRAME ASSEMBLY SCREWS	ST/ST	PH SMS
M7	-	AS REQD.	REINFORCING BAR (FRAME LENGTH - 6")	STEEL	A36, Fu MIN. = 58 KSI
M8	ES8011	AS REQD.	BUMPON	EPDM	DUROMETER 80±5 SHORE A
M12	-	AS REQD.	REINFORCING CHANNEL (FULL LENGTH)	STEEL	A36, Fu MIN. = 58 KSI



FL #18410

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