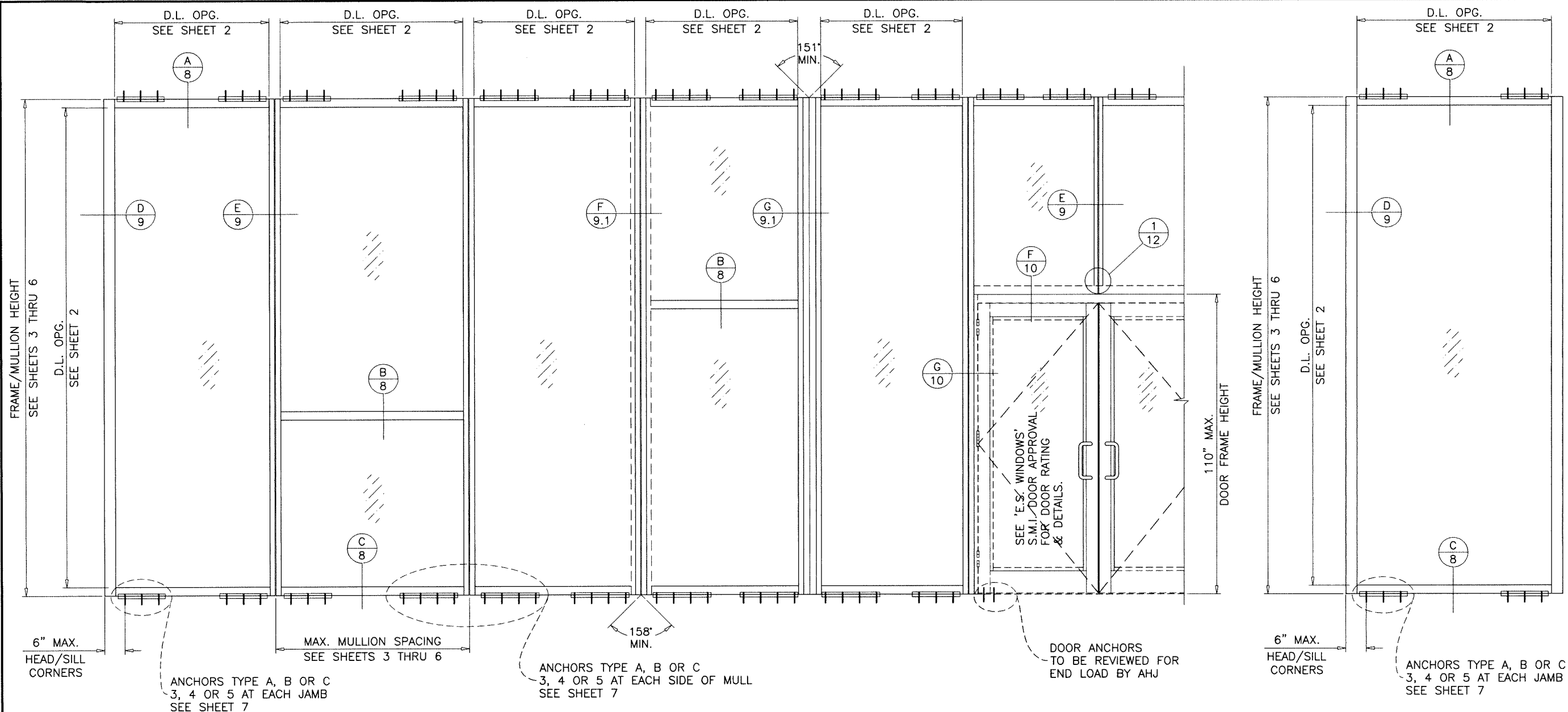




TYPICAL ELEVATIONS

ES-WW1032 ALUMINUM WINDOW WALL SYSTEM

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH F.B.C. APPR'D SMALL MISSILE 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 SHEETS 3 THRU 6 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEET 7 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 9, 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.

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.

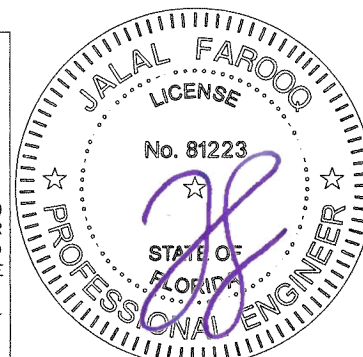
FASTENERS AND CONNECTORS (AS APPLICABLE) SHOWN IN THIS APPROVAL MAY NOT MEET CORROSION RESISTANCE REQUIREMENTS FOR COASTAL OR SALT WATER EXPOSURE ZONES. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.

**LAMINATED GLASS
SMALL MISSILE IMPACT**

Sealed: 9/2/2026

FL #18410

- 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.



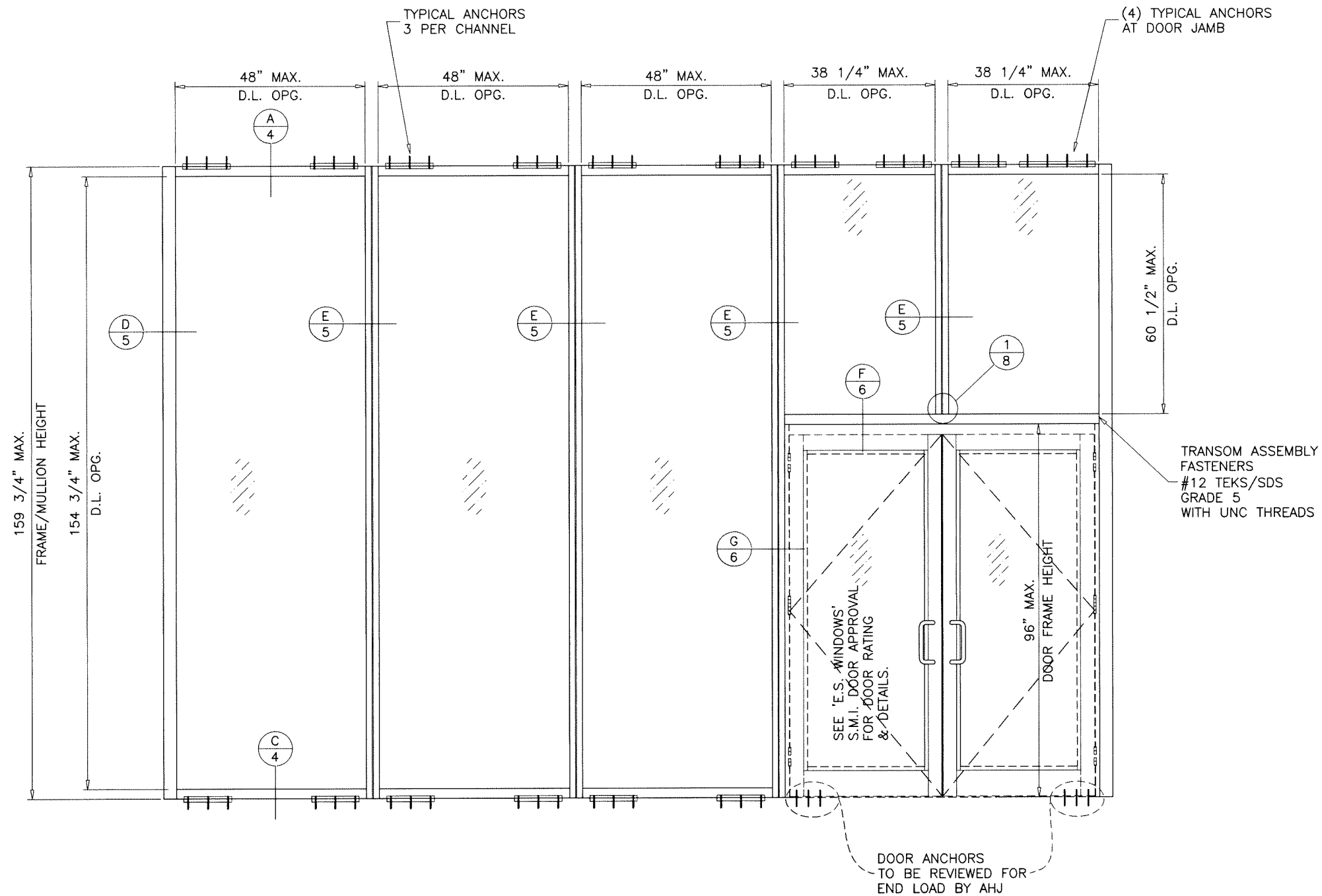
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100 FAX. (305) 262-6978
STORE 20-53FES

ES-WW1032 ALUM WINDOW WALL SYSTEM (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
		A	12.18.20		SLANTED FRAME ADDED
		B	07.31.23		UPDATED TO 2023 FBC
		C	08.28.24		NEW TEST ADDED
		D	04.22.25		GENERAL REVISION
		E	09.01.26		UPDATED TO 2026 FBC

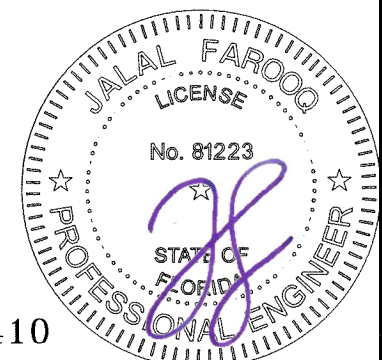
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scale:	3/8" = 1'-0"
dr. by:	TARIQ
chk. by:	

drawing no.	20-53F
sheet	1 of 13



MAXIMUM DESIGN LOAD RATING = + 100.0 PSF
(FOR ELEVATION SHOWN ABOVE) - 100.0 PSF

Sealed: 9/2/2026



FL #18410

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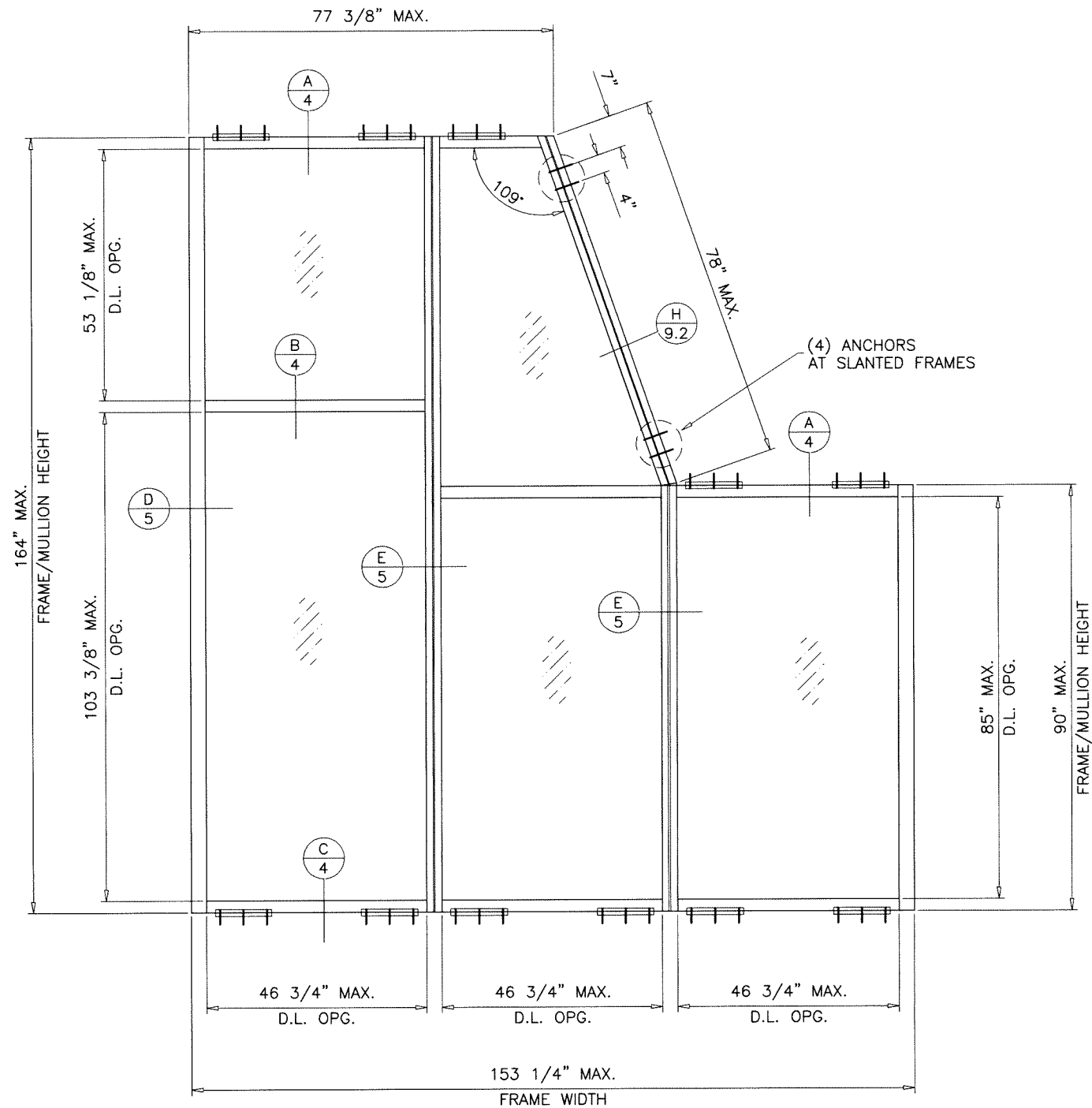
STORE \20-53F-ES

ES-WW1032 ALUM WINDOW WALL SYSTEM (S.M.I.)

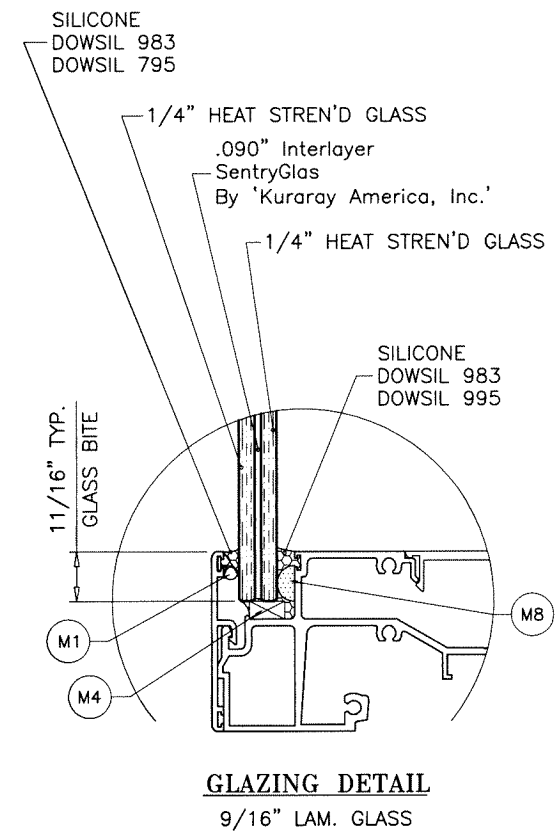
E.S. WINDOWS, LLC
3550 N.W. 49 STREET
MIAMI, FL. 33142
TEL. (305) 638-5151 FAX. (305) 638-5158

revisions:		by description	
no	date		

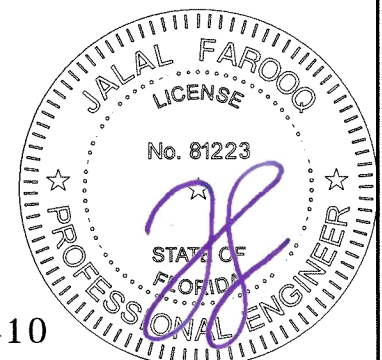
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drawing no.		20-53F	
sheet 1.1 of 9			



MAXIMUM DESIGN LOAD RATING = + 48.0 PSF
 (FOR ELEVATION SHOWN ABOVE) - 80.0 PSF
 (GLAZING DETAIL SHOWN ON THIS SHEET ONLY)



Sealed: 9/2/2026



FL #18410

af c

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Revisions:		by	description
no	date		

date: 06-10-20
 scale: 3/8" = 1'-0"
 dr. by: TARIQ
 chk. by:

drawing no.
20-53F
 sheet 1.2 of 9

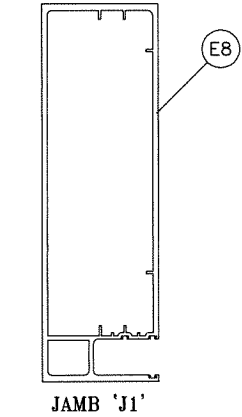
STORE\20-53F-ES

JAMB/MULLION DESIGN LOAD CAPACITY - PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

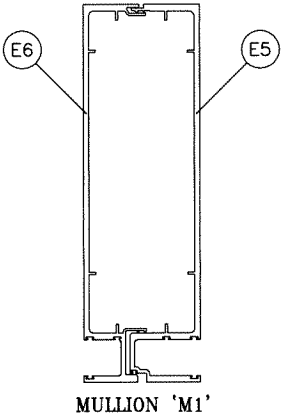
NOMINAL DIMS.		JAMB 'J1'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
36"	96"	142.0	142.0
43-1/4"		142.0	142.0
48"		142.0	142.0
54"		142.0	142.0
60"		142.0	142.0
66"		142.0	142.0
72"		142.0	142.0
36"	108"	142.0	142.0
43-1/4"		142.0	142.0
48"		142.0	142.0
54"		142.0	142.0
60"		142.0	142.0
66"		100.0	100.0
72"		100.0	100.0
36"	120"	142.0	142.0
43-1/4"		142.0	142.0
48"		142.0	142.0
54"		142.0	142.0
60"		100.0	100.0
66"		100.0	100.0
36"	132"	142.0	142.0
43-1/4"		142.0	142.0
48"		142.0	142.0
51-1/4"		100.0	100.0
54"		100.0	100.0
60"		100.0	100.0
36"	144"	142.0	142.0
43-1/4"		142.0	142.0
48"		142.0	142.0
51-1/4"		100.0	100.0
54"		100.0	100.0
36"	159-3/4"	142.0	142.0
43-1/4"		142.0	142.0
48"		100.0	100.0
51-1/4"		100.0	100.0
36"	160"	142.0	142.0
43-1/4"		142.0	142.0

MULLION DESIGN LOAD CAPACITY - PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

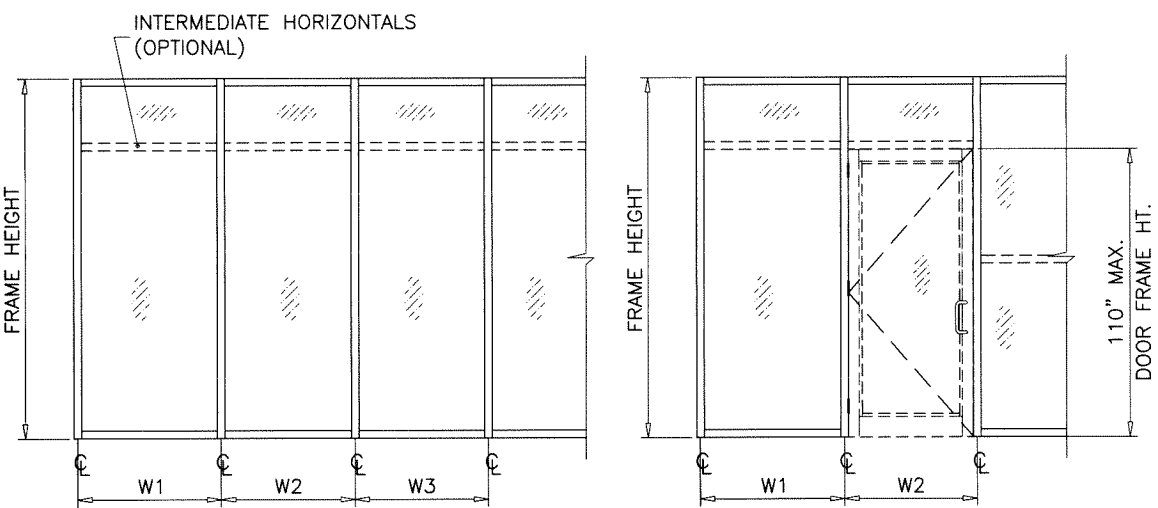
NOMINAL DIMS.		JAMB 'J1'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
54"	156"	90.0	90.0
60"		90.0	90.0
66"		90.0	90.0
70"		90.0	90.0
72"		90.0	90.0
48"	170"	90.0	90.0
50"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
66"		90.0	90.0
70"		90.0	90.0
48"	180"	75.0	80.0
50"		75.0	80.0
54"		75.0	80.0
60"		75.0	80.0
66"		75.0	80.0
68"		75.0	80.0
48"	192"	75.0	80.0
50"		75.0	80.0
54"		75.0	80.0
60"		75.0	80.0
63"		75.0	80.0
48"	204"	75.0	80.0
50"		75.0	80.0
54"		75.0	80.0
54"		75.0	80.0
60"		75.0	75.7
48"	216"	75.0	80.0
50"		75.0	77.4
54"		71.7	71.7
56"		69.1	69.1
48"	228"	67.8	67.8
50"		65.1	65.1
53"		61.4	61.4
50-1/2"	243"	52.5	52.5



Ix	IN^4	Sx	IN^3
64.028		11.707	



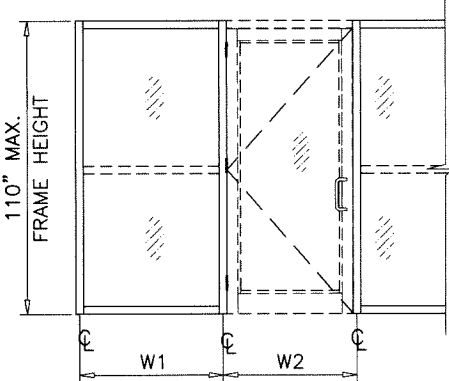
Ix	IN^4	Sx	IN^3
65.589		11.652	



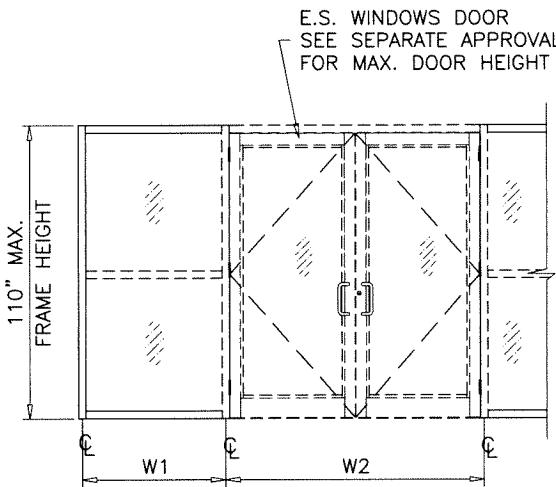
WIDTH (W) = W1
AT JAMB

WIDTH (W) = (W2 + W3) / 2
AT MULLION

WIDTH (W) = (W1 + W2) / 2
AT MULLION



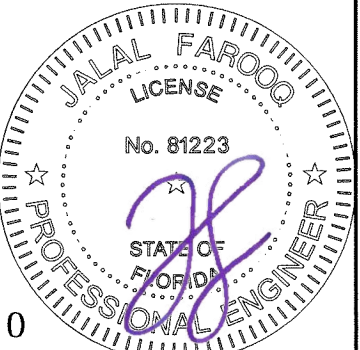
WIDTH (W) = (W1 + W2) / 2
AT MULLION



WIDTH (W) = (W1 / 2) + (W2 / 4)
AT MULLION

Sealed: 9/2/2026

MULLION



FL #18410

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revisions:	no	date	by	description

date: 06-10-20

scale: -

dr. by: TARIQ

chk. by:

drawing no.

20-53F

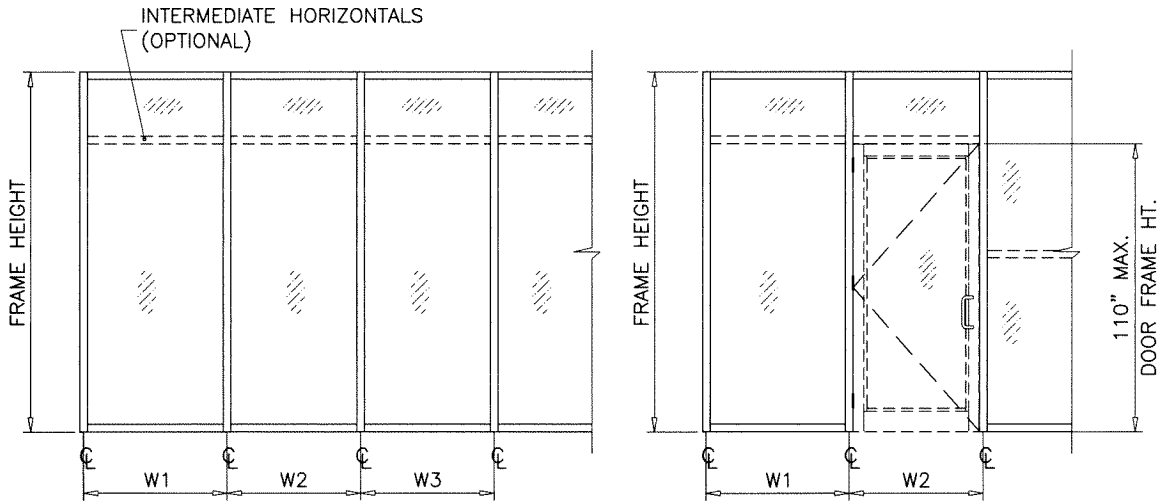
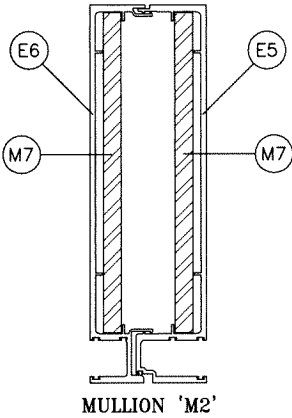
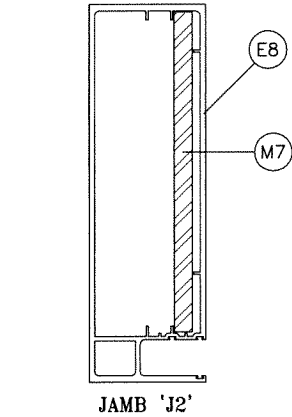
sheet 3 of 13

MULLION DESIGN LOAD CAPACITY - PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

NOMINAL DIMS.		JAMB 'J2' MULLION 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
48"	156"	140.0	140.0
50"		140.0	140.0
54"		140.0	140.0
60"		140.0	140.0
64"		140.0	140.0
65"		140.0	140.0
66"		125.5	125.5
67"		123.6	123.6
68"	168"	121.8	121.8
70"		118.3	118.3
72"		115.0	115.0
48"	170"	140.0	140.0
50"		140.0	140.0
54"		140.0	140.0
60"		140.0	140.0
64"		129.4	129.4
66"		125.5	125.5
67"		123.6	123.6
68"		121.8	121.8
48"	180"	140.0	140.0
50"		140.0	140.0
54"		140.0	140.0
56"		140.0	140.0
60"		138.0	138.0
64"		129.4	129.4
48"	192"	140.0	140.0
50"		140.0	140.0
53"		140.0	140.0
54"		138.0	138.0
60"		138.0	138.0
48"	197"	140.0	140.0
50"		140.0	140.0
52"		140.0	140.0

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

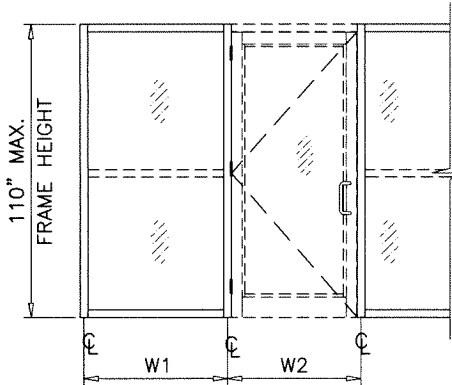
	Ix IN^4	Sx IN^3
ALUMINUM	65.589	11.652
STEEL	57.676	12.987
TOTAL	232.852	
Ix ALUM + Ix STL X 2.9		



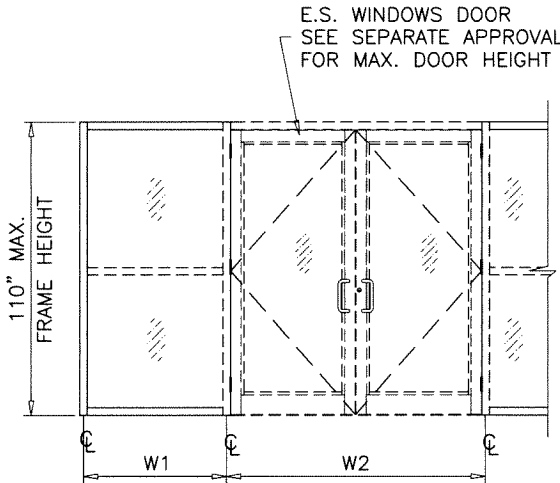
WIDTH (W) = W1
AT JAMB

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

WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



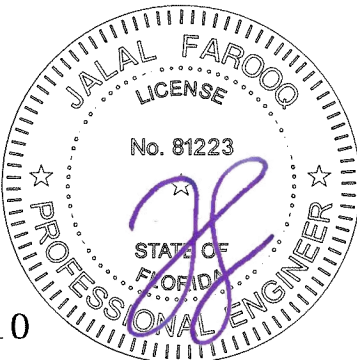
WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$
AT MULLION

Sealed: 9/2/2026

MULLION



FL #18410

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AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
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ES-WW1032 ALUM WINDOW WALL SYSTEM (S.M.I.)

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revisions:
no date by description

date: 06-10-20

scale: -

dr. by: TARIQ

chk. by:

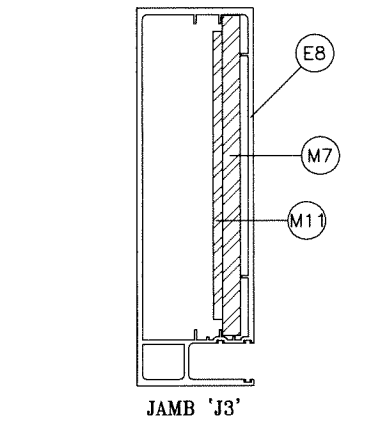
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20-53F

sheet 3.1 of 13

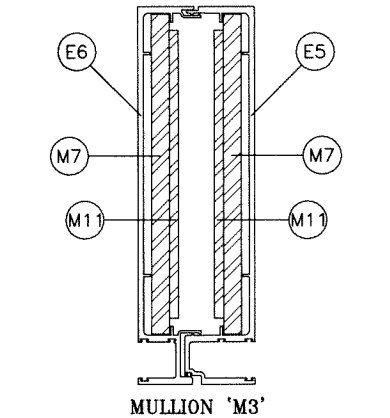
STORE\20-53FES

MULLION DESIGN LOAD CAPACITY - PSF
WITH OR WITHOUT INTERMEDIATE HORIZONTALS

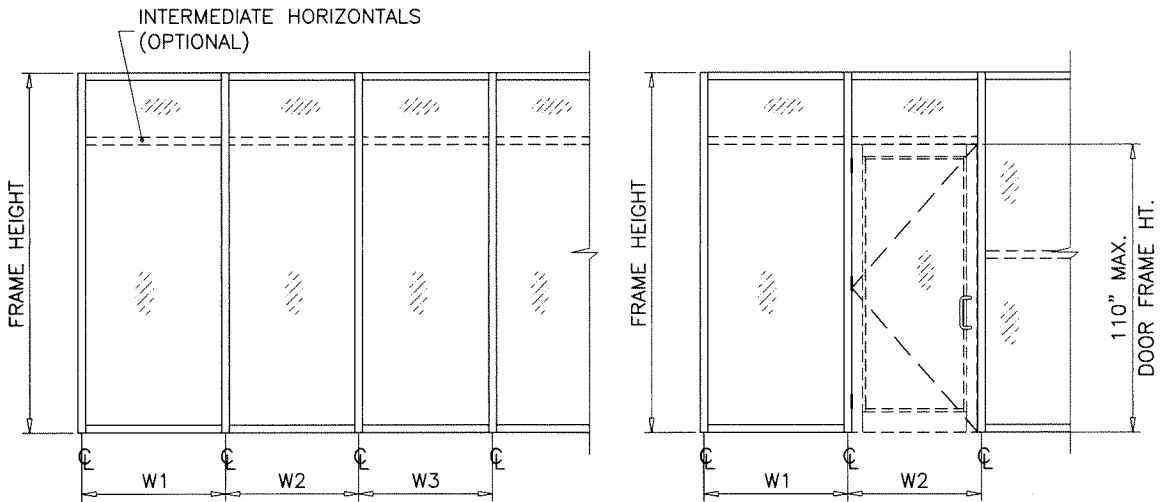
NOMINAL DIMS.		JAMB 'J3' MULLION 'M3'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
45-1/4"	170"	142.0	142.0
50"		142.0	142.0
53"		142.0	142.0
54"		142.0	142.0
56"		140.0	140.0
59"		140.0	140.0
60"		140.0	140.0
62"		111.3	111.3
66"		104.5	104.5
70"		98.6	98.6
71"		97.2	97.2
72"		95.8	95.8
45-1/4"	180"	142.0	142.0
50"		140.0	140.0
53"		140.0	140.0
54"		140.0	140.0
56"		140.0	140.0
59"		116.9	116.9
60"		115.0	115.0
62"		111.3	111.3
66"		104.5	104.5
70"		98.6	98.6
71"		97.2	97.2
45-1/4"	192"	142.0	142.0
50"		140.0	140.0
53"		140.0	140.0
54"		127.8	127.8
56"		123.2	123.2
59"		116.9	116.9
60"		115.0	115.0
62"		111.3	111.3
66"		104.5	104.5
45-1/4"	204"	142.0	142.0
50"		138.0	138.0
53"		130.2	130.2
54"		127.8	127.8
56"		123.2	123.2
59"		116.9	116.9
60"		115.0	115.0
62"		111.3	111.3
45-1/4"	205"	142.0	142.0
50"	216"	138.0	138.0
53"		130.2	130.2
54"		127.8	127.8
56"		123.2	123.2
59"		116.9	116.9
50"	228"	138.0	138.0
53"		130.2	130.2
54"		127.8	127.8
56"		123.2	123.2
50"	240"	138.0	138.0
53"		130.2	130.2
50"	252"	138.0	138.0
50"	256"	138.0	138.0



	Ix IN^4	Sx IN^3
ALUMINUM	64.028	11.707
STEEL	39.862	8.976
TOTAL Ix ALUM + Ix STL X 2.9	178.280	



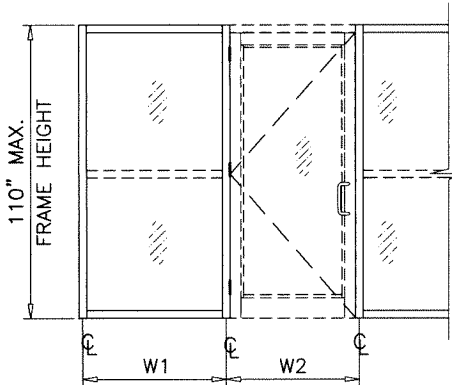
	Ix IN^4	Sx IN^3
ALUMINUM	65.589	11.652
STEEL	79.725	17.952
TOTAL Ix ALUM + Ix STL X 2.9	294.50	



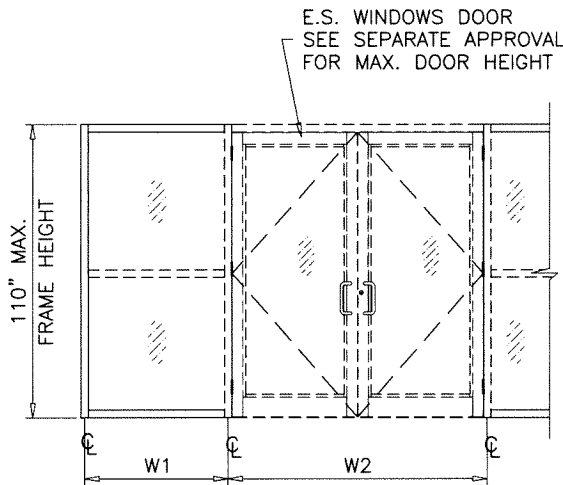
WIDTH (W) = W1
AT JAMB

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

WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



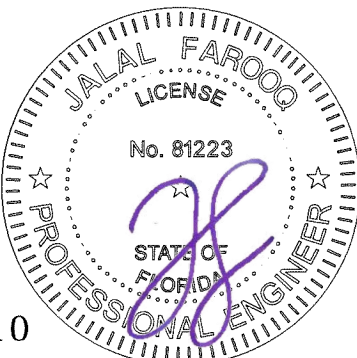
WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$
AT MULLION

Sealed: 9/2/2026

MULLION



FL #18410

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revisions:	no	date	by	description

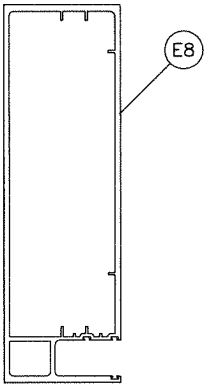
date: 06-10-20
scale: -
dr. by: TARIQ
chk. by:

drawing no.
20-53F

sheet 4 of 13

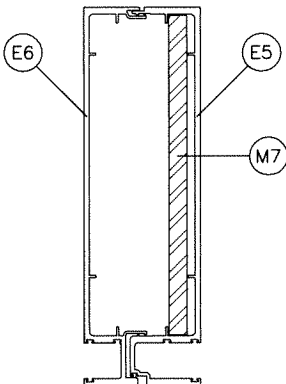
STORE 20-53FES

MULLION DESIGN LOAD CAPACITY - PSF			
WITH OR WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS.		JAMB 'J1'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)
48"	156"	90.0	90.0
50"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
66"		90.0	90.0
72"		90.0	90.0
48"	170"	90.0	90.0
50"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
66"		90.0	90.0
70"		90.0	90.0
48"	180"	75.0	80.0
50"		75.0	80.0
54"		75.0	80.0
60"		75.0	80.0
68"		75.0	80.0
48"	192"	75.0	80.0
50"		75.0	80.0
54"		75.0	80.0
60"		75.0	80.0
63"		75.0	80.0
48"	204"	75.0	80.0
50"		75.0	80.0
54"		75.0	80.0
60"		75.0	80.0
60"		75.0	80.0
48"	216"	75.0	80.0
50"		75.0	80.0
54"		75.0	80.0
56"		75.0	80.0
56"		75.0	80.0
48"	228"	75.0	80.0
50"		75.0	80.0
53"		75.0	80.0
50-1/2"	243"	75.0	80.0



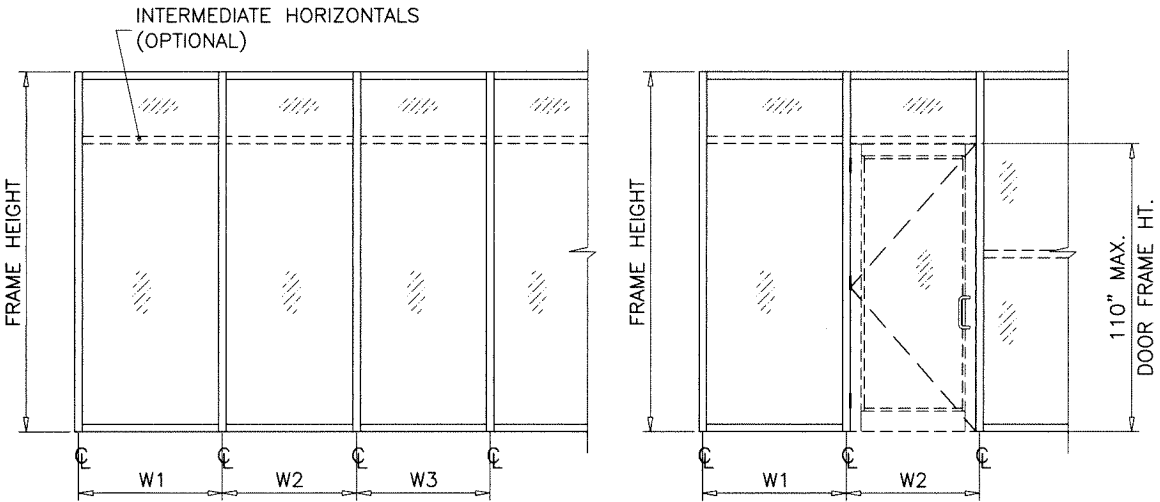
JAMB 'J1'

Ix	IN^4	Sx	IN^3
64.028		11.707	



MULLION 'M4'

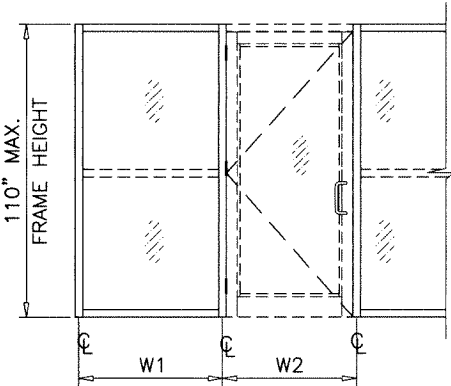
	Ix	IN^4	Sx	IN^3
ALUMINUM	65.589	11.652		
STEEL	29.196	9.861		
TOTAL				
Ix ALUM + Ix STL X 2.9	149.419			



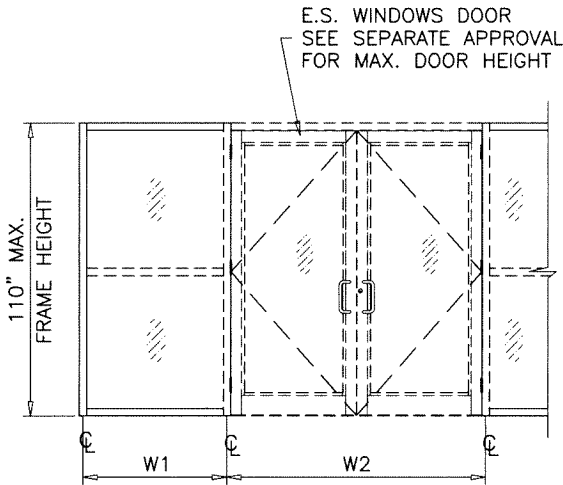
WIDTH (W) = W1
AT JAMB

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

WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



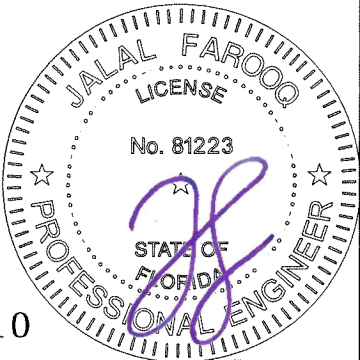
WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$
AT MULLION

Sealed: 9/2/2026

MULLION



FL #18410

afC

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

ES-WW1032 ALUM WINDOW WALL SYSTEM (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: 06-10-20

scale: -

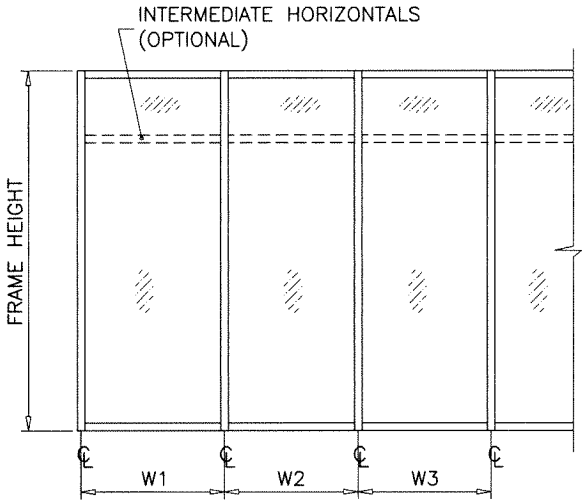
dr. by: TARIQ

chk. by:

drawing no.
20-53F

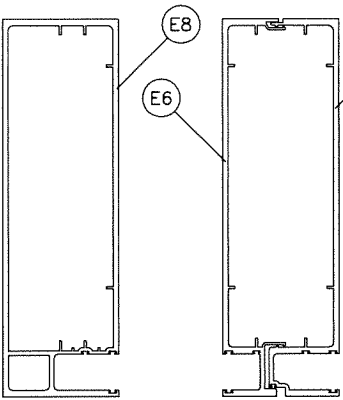
sheet 5 of 13

JAMB/MULLION DESIGN LOAD CAPACITY - PSF													
WITH OR WITHOUT INTERMEDIATE HORIZONTALS													
NOMINAL DIMS.		JAMB 'J1'		MULLION 'M1'		22° BAY MULL '22 BM1'		30° BAY MULL '30 BM1'		22° BAY MULL '22 BM2'		30° BAY MULL '30 BM2'	
WIDTH (W)	FRAME HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
44-7/8"	156"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
46-5/8"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
51"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
58"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
44-7/8"	170"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
46-5/8"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
51"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
44-7/8"	180"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
46-5/8"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
51"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
44-7/8"	191"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
46-5/8"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
44-7/8"	205"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0
46-5/8"		100.0	100.0	-	-	100.0	100.0	100.0	100.0	142.0	142.0	142.0	142.0



WIDTH (W) = W1
AT JAMB

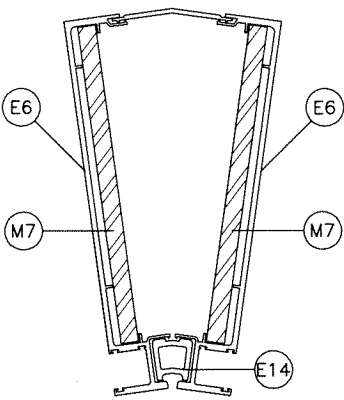
WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION



JAMB 'J1' MULLION 'M1'

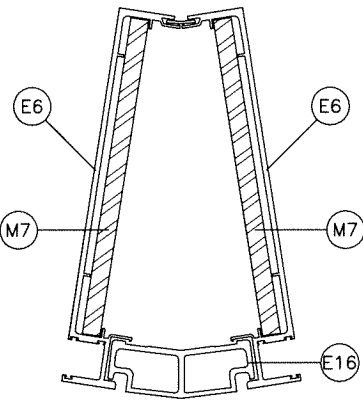
Ix IN^4	Sx IN^3
64.028	11.707

Ix IN^4	Sx IN^3
65.589	11.652



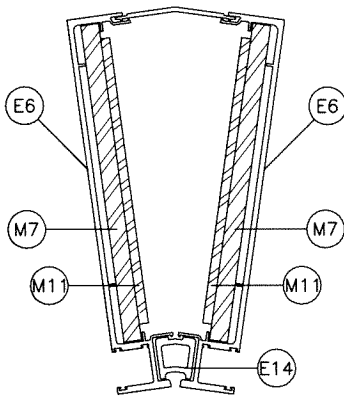
22° BAY MULLION '22 BM1'

	Ix IN^4	Sx IN^3
ALUMINUM	61.401	11.033
STEEL	57.324	12.928
TOTAL Ix ALUM + Ix STL X 2.9	227.641	



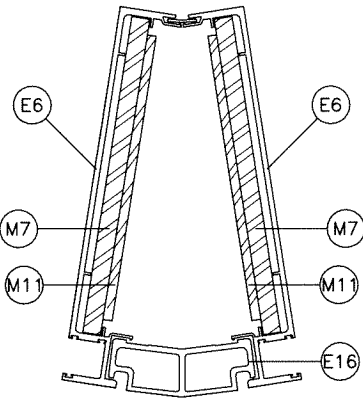
30° BAY MULLION '30 BM1'

	Ix IN^4	Sx IN^3
ALUMINUM	62.105	11.393
STEEL	57.038	12.883
TOTAL Ix ALUM + Ix STL X 2.9	227.515	



22° BAY MULLION '22 BM2'

	Ix IN^4	Sx IN^3
ALUMINUM	61.401	11.033
STEEL	57.324	12.928
TOTAL Ix ALUM + Ix STL X 2.9	227.641	

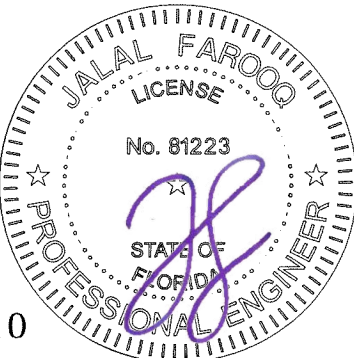


30° BAY MULLION '30 BM2'

	Ix IN^4	Sx IN^3
ALUMINUM	62.105	11.393
STEEL	57.038	12.883
TOTAL Ix ALUM + Ix STL X 2.9	227.515	

Sealed: 9/2/2026

MULLION



FL #18410

af c
AL-FAROOQ CORPORATION
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revisions:
no date by description
06-10-20
scale: -
dr. by: TARIQ
chk. by:
drawing no.
20-53F
sheet 6 of 13

STORE 20-53FES

ANCHOR DESIGN LOAD CAPACITY – PSF EXT.(+) & INT.(–)									
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS 'B'		ANCHORS TYPE 'C'		
WIDTH (W)	FRAME HEIGHT	A3	A4	A5	B3	B4	C3	C4	C5
48"	90"	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
50"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
54"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
60"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
66"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
70"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
72"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
48"	100"	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
50"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
54"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
60"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
66"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
70"		137.1	142.0	142.0	142.0	142.0	142.0	142.0	142.0
72"		133.3	142.0	142.0	142.0	142.0	137.1	142.0	142.0
48"	120"	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
50"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
54"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
60"		133.3	142.0	142.0	142.0	142.0	137.1	142.0	142.0
66"		121.2	142.0	142.0	142.0	142.0	124.6	142.0	142.0
70"		114.3	142.0	142.0	142.0	142.0	117.5	142.0	142.0
72"		111.1	142.0	142.0	142.0	142.0	114.2	142.0	142.0
48"	132"	142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
50"		142.0	142.0	142.0	142.0	142.0	142.0	142.0	142.0
54"		134.7	142.0	142.0	142.0	142.0	138.4	142.0	142.0
60"		121.2	142.0	142.0	142.0	142.0	124.6	142.0	142.0
66"		110.2	142.0	142.0	142.0	142.0	113.3	142.0	142.0
70"		103.9	138.5	142.0	142.0	142.0	106.8	142.0	142.0
72"		101.0	134.7	142.0	142.0	142.0	103.8	138.4	142.0
48"	144"	138.9	142.0	142.0	142.0	142.0	142.0	142.0	142.0
50"		133.3	142.0	142.0	142.0	142.0	137.1	142.0	142.0
54"		123.4	142.0	142.0	142.0	142.0	126.9	142.0	142.0
60"		111.1	142.0	142.0	142.0	142.0	114.2	142.0	142.0
66"		101.0	134.7	142.0	142.0	142.0	103.8	138.4	142.0
70"		95.2	127.0	142.0	142.0	142.0	97.9	130.5	142.0
72"		92.6	123.4	142.0	142.0	142.0	95.2	126.9	142.0
48"	156"	128.2	142.0	142.0	142.0	142.0	131.8	142.0	142.0
50"		123.1	142.0	142.0	142.0	142.0	126.5	142.0	142.0
54"		114.0	142.0	142.0	142.0	142.0	117.1	142.0	142.0
60"		102.6	136.7	142.0	142.0	142.0	105.4	142.0	142.0
66"		93.2	124.3	142.0	142.0	142.0	95.8	127.8	142.0
70"		87.9	117.2	142.0	135.0	142.0	90.4	120.5	142.0
72"		85.5	114.0	142.0	131.2	142.0	87.9	117.1	142.0
48"	168"	119.0	142.0	142.0	142.0	142.0	122.4	142.0	142.0
50"		114.3	142.0	142.0	142.0	142.0	117.5	142.0	142.0
54"		105.8	142.0	142.0	142.0	142.0	108.8	142.0	142.0
60"		95.2	127.0	142.0	142.0	142.0	97.9	130.5	142.0
66"		86.6	115.4	142.0	132.9	142.0	89.0	118.7	142.0
70"		81.6	108.8	136.0	125.3	142.0	83.9	111.9	139.9
72"		79.4	105.8	132.3	121.9	142.0	81.6	108.8	136.0
48"	170"	117.6	142.0	142.0	142.0	142.0	120.9	142.0	142.0
50"		112.9	142.0	142.0	142.0	142.0	116.1	142.0	142.0
54"		104.6	139.4	142.0	142.0	142.0	107.5	142.0	142.0
60"		94.1	125.5	142.0	142.0	142.0	96.7	129.0	142.0
66"		85.6	114.1	142.0	131.4	142.0	88.0	117.3	142.0
70"		80.7	107.6	134.4	123.9	142.0	82.9	110.6	138.2
72"		78.4	104.6	130.7	120.4	142.0	80.6	107.5	134.4

ANCHOR DESIGN LOAD CAPACITY – PSF EXT.(+) & INT.(–)									
NOMINAL DIMS.		ANCHORS TYPE 'A'			ANCHORS 'B'		ANCHORS TYPE 'C'		
WIDTH (W)	FRAME HEIGHT	A3	A4	A5	B3	B4	C3	C4	C5
48"	180"	111.1	142.0	142.0	142.0	142.0	114.2	142.0	142.0
50"		106.7	142.0	142.0	142.0	142.0	109.6	142.0	142.0
54"		98.8	131.7	142.0	142.0	142.0	101.5	135.4	142.0
56"		95.2	127.0	142.0	142.0	142.0	97.9	130.5	142.0
60"		88.9	118.5	142.0	136.5	142.0	91.4	121.8	142.0
66"		80.8	107.7	134.7	124.1	142.0	83.1	110.8	138.4
70"		76.2	101.6	127.0	117.0	142.0	78.3	104.4	130.5
71"		75.1	100.1	125.2	115.3	142.0	77.2	103.0	128.7
48"	192"	104.2	138.9	142.0	142.0	142.0	107.1	142.0	142.0
50"		100.0	133.3	142.0	142.0	142.0	102.8	137.1	142.0
53"		92.6	123.4	142.0	142.0	142.0	95.2	126.9	142.0
54"		92.6	123.4	142.0	142.0	142.0	95.2	126.9	142.0
60"		83.3	111.1	138.9	127.9	142.0	85.7	114.2	142.0
66"		75.8	101.0	126.3	116.3	142.0	77.9	103.8	129.8
48"	197"	101.5	135.4	142.0	142.0	142.0	104.4	139.1	142.0
50"		97.5	129.9	142.0	142.0	142.0	100.2	133.6	142.0
52"		93.7	124.9	142.0	142.0	142.0	96.3	128.4	142.0
48"	204"	98.0	130.7	142.0	142.0	142.0	100.8	134.4	142.0
50"		94.1	125.5	142.0	142.0	142.0	96.7	129.0	142.0
54"		87.1	116.2	142.0	133.8	142.0	89.6	119.4	142.0
60"		78.4	104.6	130.7	120.4	142.0	80.6	107.5	134.4
62"		75.9	101.2	126.5	116.5	142.0	78.0	104.0	130.0
45–1/4"	205"	103.5	138.0	142.0	142.0	142.0	142.0	142.0	142.0
46–5/8"		100.4	133.9	142.0	142.0	142.0	142.4	142.0	142.0
48"	216"	92.6	123.4	140.0	140.0	140.0	95.2	126.9	140.0
50"		88.9	118.5	140.0	136.5	140.0	91.4	121.8	140.0
54"		82.3	109.7	137.2	126.4	140.0	84.6	112.8	140.0
59"		75.3	100.4	125.5	115.7	140.0	77.4	103.2	129.1
48"	228"	87.7	116.9	140.0	134.7	140.0	90.2	120.2	140.0
50"		84.2	112.3	140.0	129.3	140.0	86.6	115.4	140.0
54"		78.0	104.0	129.9	119.7	140.0	80.1	106.9	133.6
56"		75.2	100.2	125.3	115.4	140.0	77.3	103.0	128.8
48"	240"	83.3	111.1	138.9	127.9	140.0	85.7	114.2	140.0
50"		80.0	106.7	133.3	122.8	140.0	82.2	109.6	137.1
53"		75.5	100.6	125.8	115.9	140.0	77.6	103.4	129.3
50–1/2"	243"	78.2	104.3	130.3	120.1	140.0	80.4	107.2	134.0
48"	252"	79.4	105.8	132.3	121.9	140.0	81.6	108.8	136.0
50"		76.2	101.6	127.0	117.0	140.0	78.3	104.4	130.5
48"	256"	78.1	104.2	130.2	119.9	140.0	80.3	107.1	133.8
50"		75.0	100.0	125.0	115.1	140.0	77.1	102.8	128.5

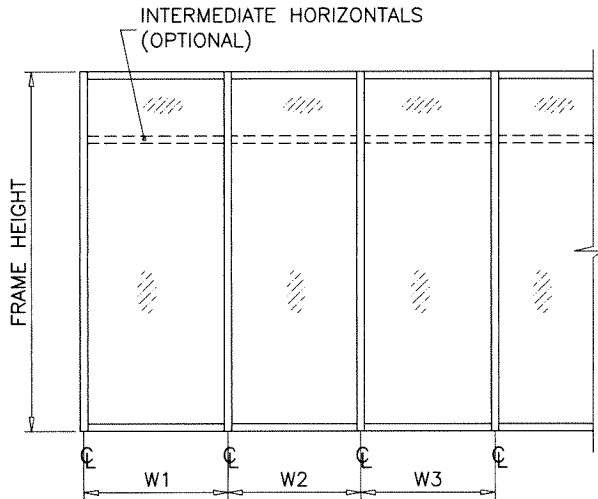
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

ANCHORS TYPES: SEE SHEET 5 FOR DESCRIPTION

A3 = (3) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
A4 = (4) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION
A5 = (5) ANCHORS TYPE 'A' AT EACH SIDE OF JAMB AND MULLION

B3 = (3) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION
B4 = (4) ANCHORS TYPE 'B' AT EACH SIDE OF JAMB AND MULLION

C3 = (3) ANCHORS TYPE 'C' 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

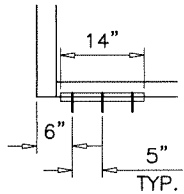


$$\text{WIDTH (W)} = W1$$

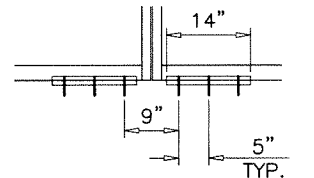
AT JAMB

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

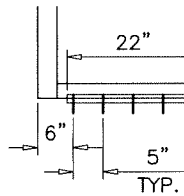
AT MULLION



A3, B3, C3



A4, B4, C4

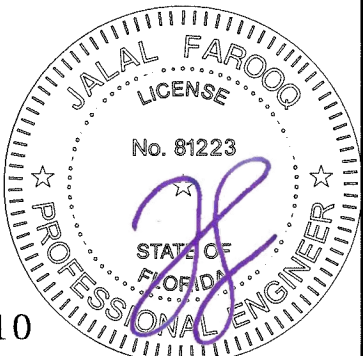


A5, B5, C5

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ANCHOR

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chk. by:

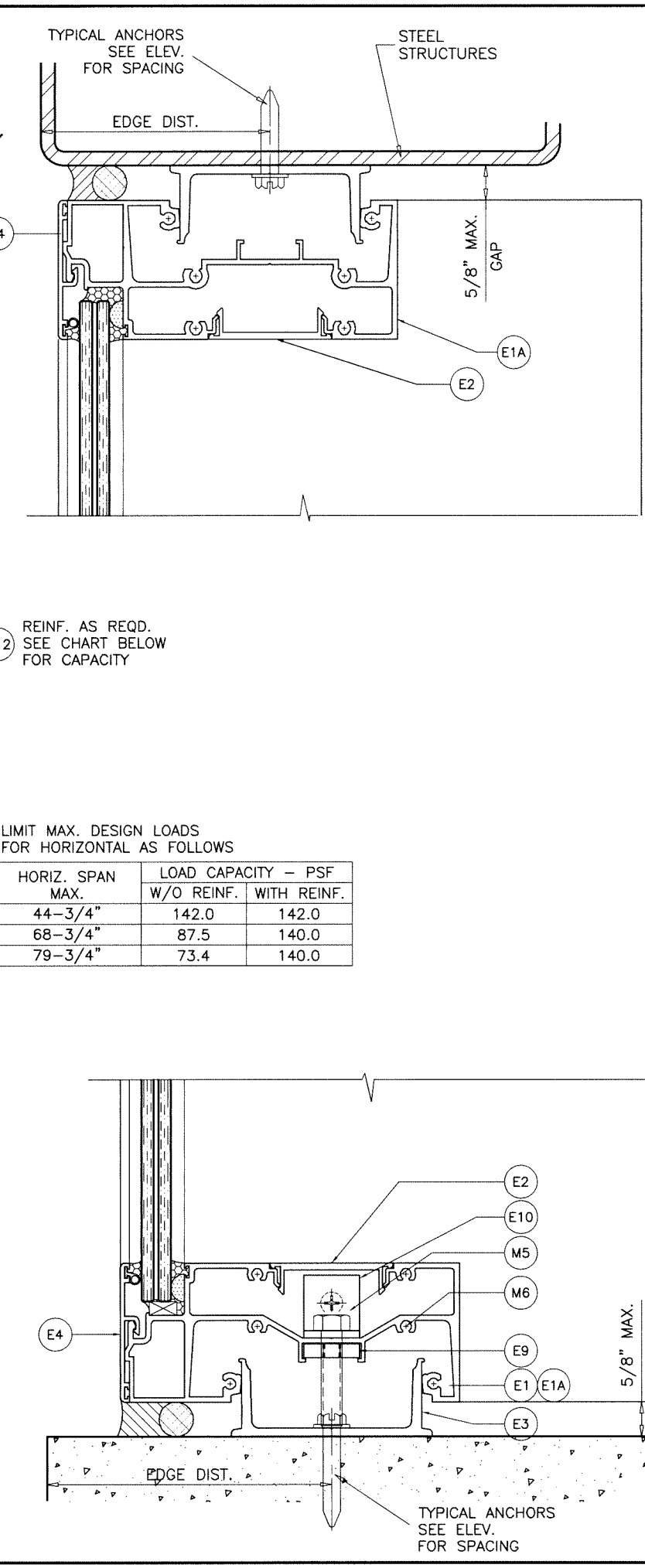
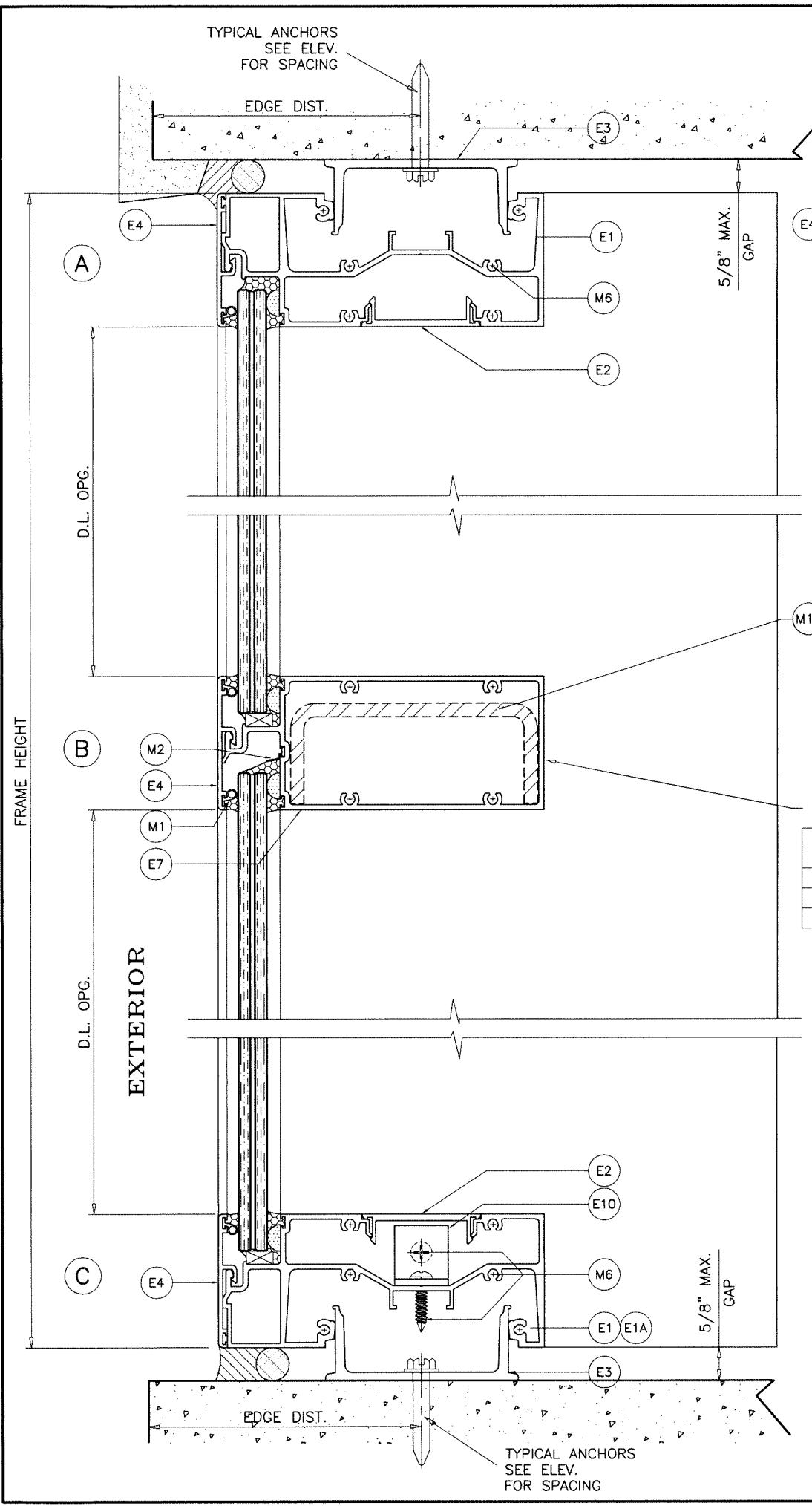
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METAL STRUCTURES NOT BY E.S. WDW.
MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND
TRANSFER THEM TO THE BUILDING STRUCTURE.

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.

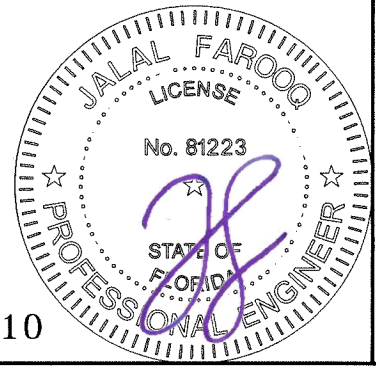
ANCHOR EDGE DISTANCES
INTO CONCRETE = 4-1/2" MIN.

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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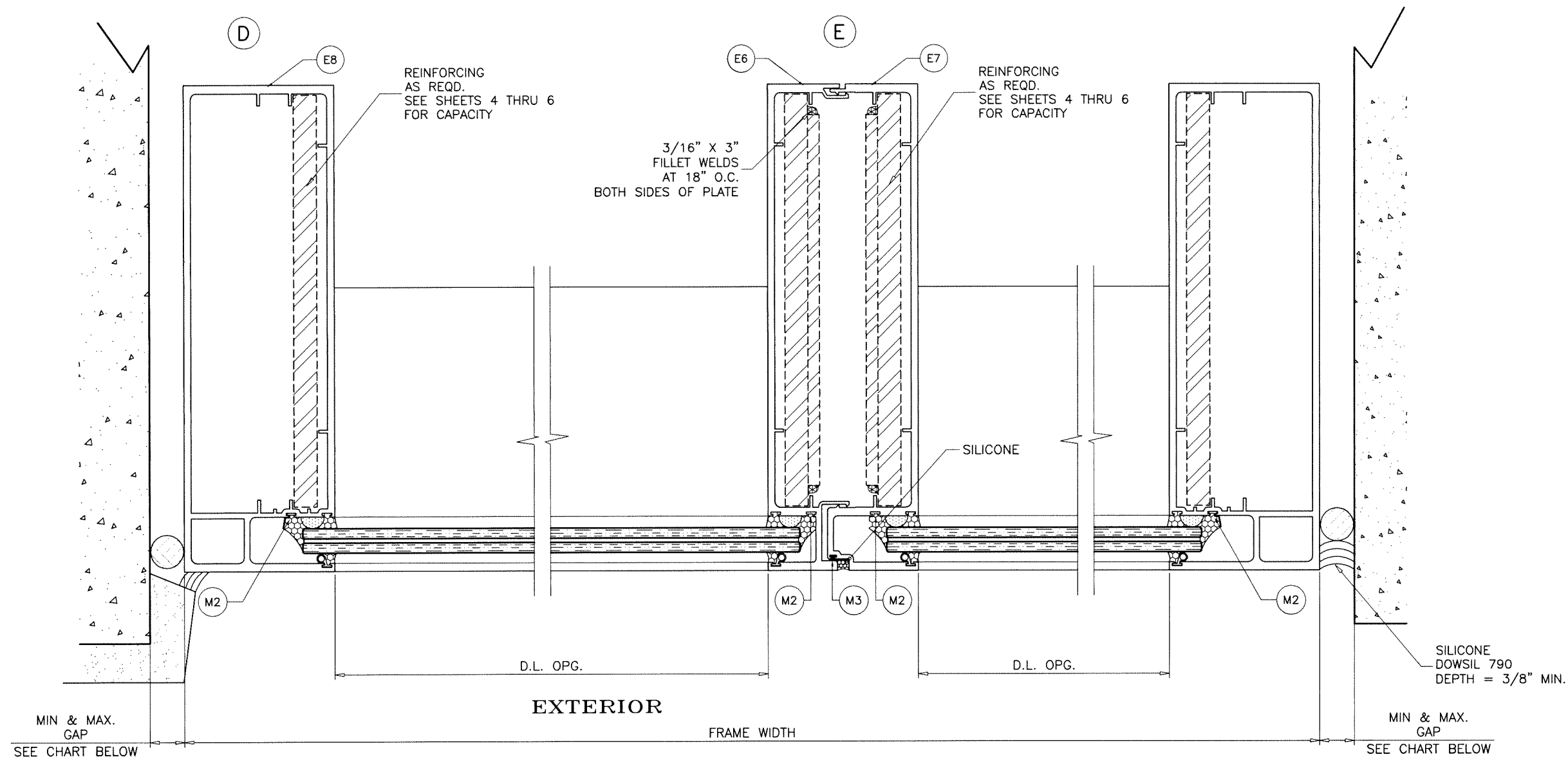
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drawing no.		sheet 8 of 13	
20-53F			



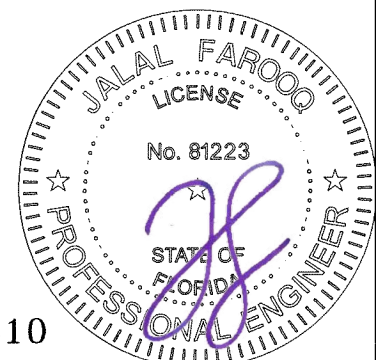
MAX. FRAME HEIGHT	MAX. GAPS FOR UNANCHORED JAMBS					
	JAMB 'J1'		JAMB 'J2'		JAMB 'J3'	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
170"	1/4"	3/4"	1/4"	3/4"	1/4"	3/4"
192"	5/8"	1"	1/4"	3/4"	1/4"	3/4"
240"	3/4"	1"	—	—	3/8"	3/4"
243"	3/4"	1"	—	—	3/8"	3/4"
256"	—	—	—	—	1/2"	3/4"

NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOW WALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

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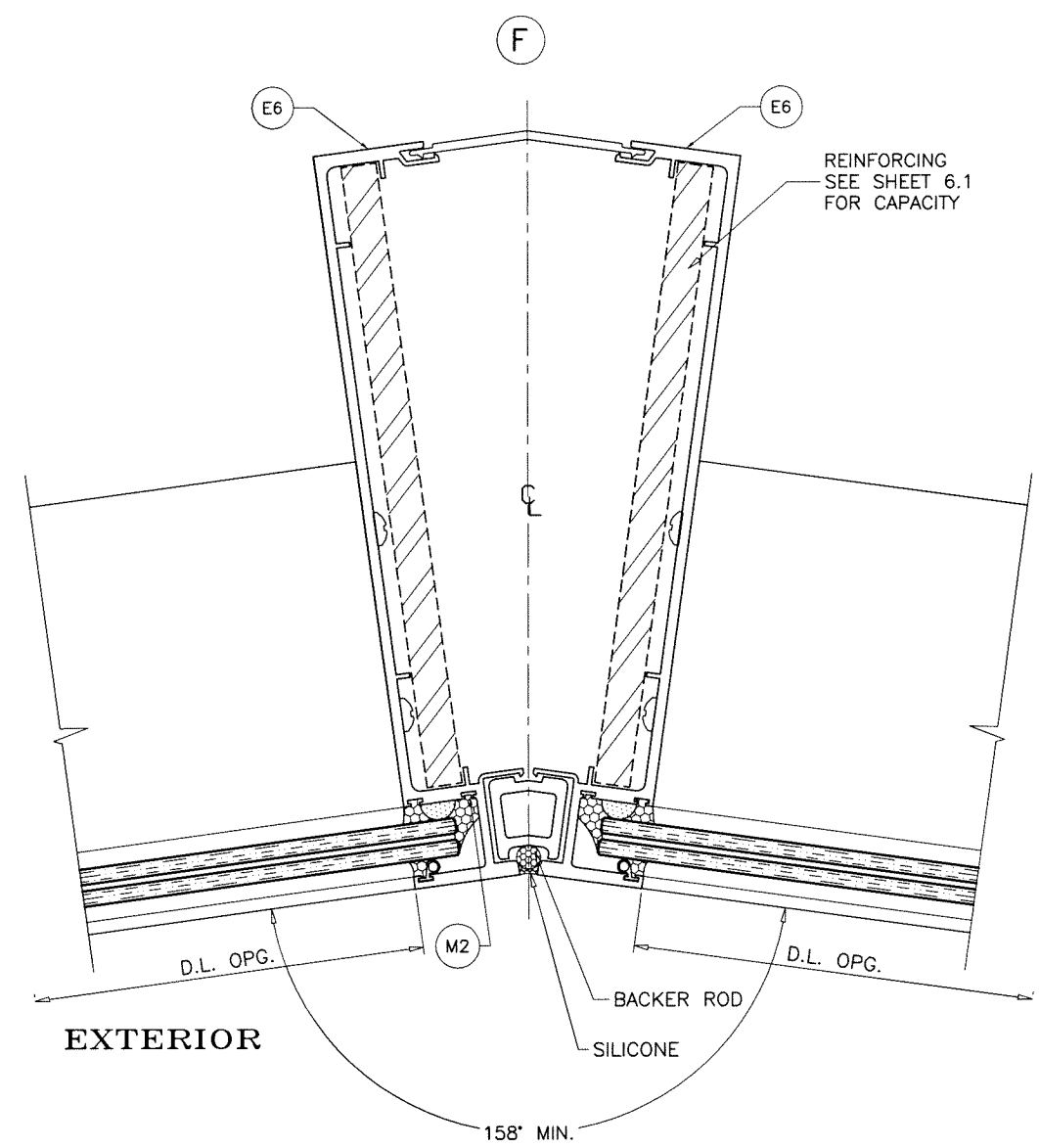
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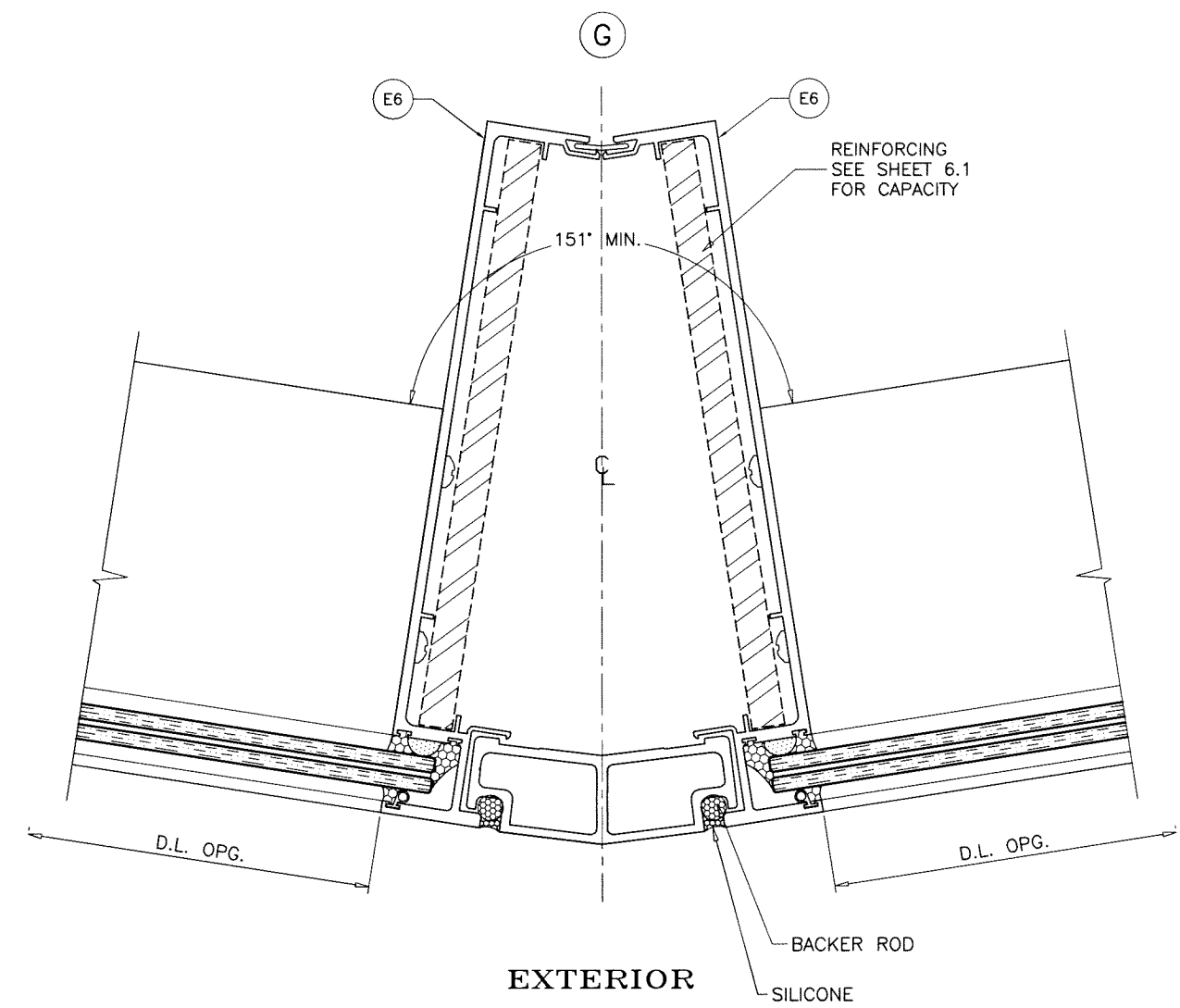
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sheet 9.1 of 13



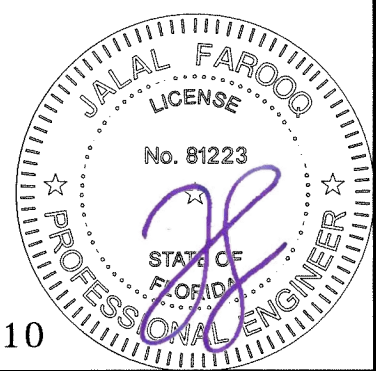
22° BAY MULLION

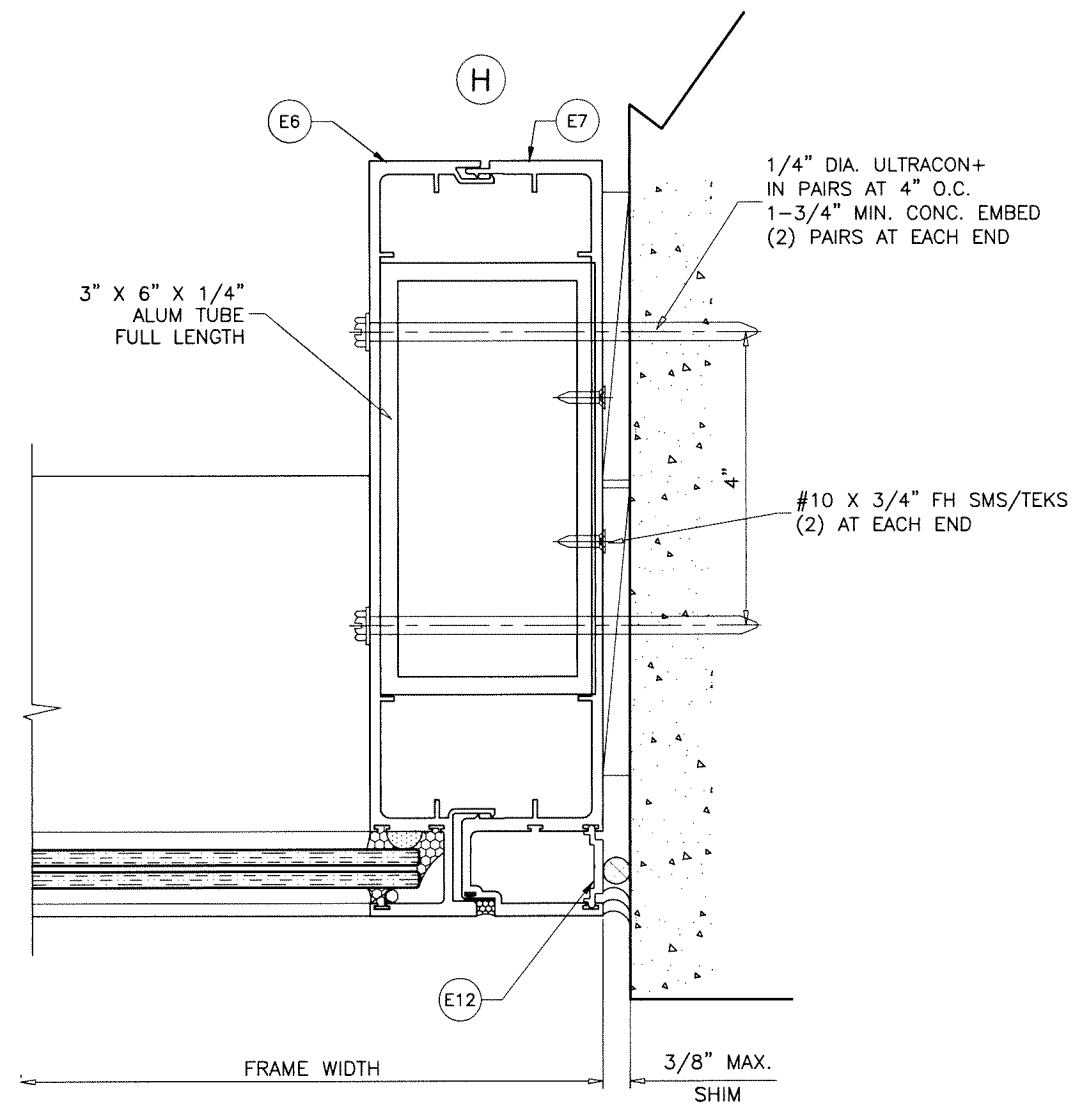


30° BAY MULLION

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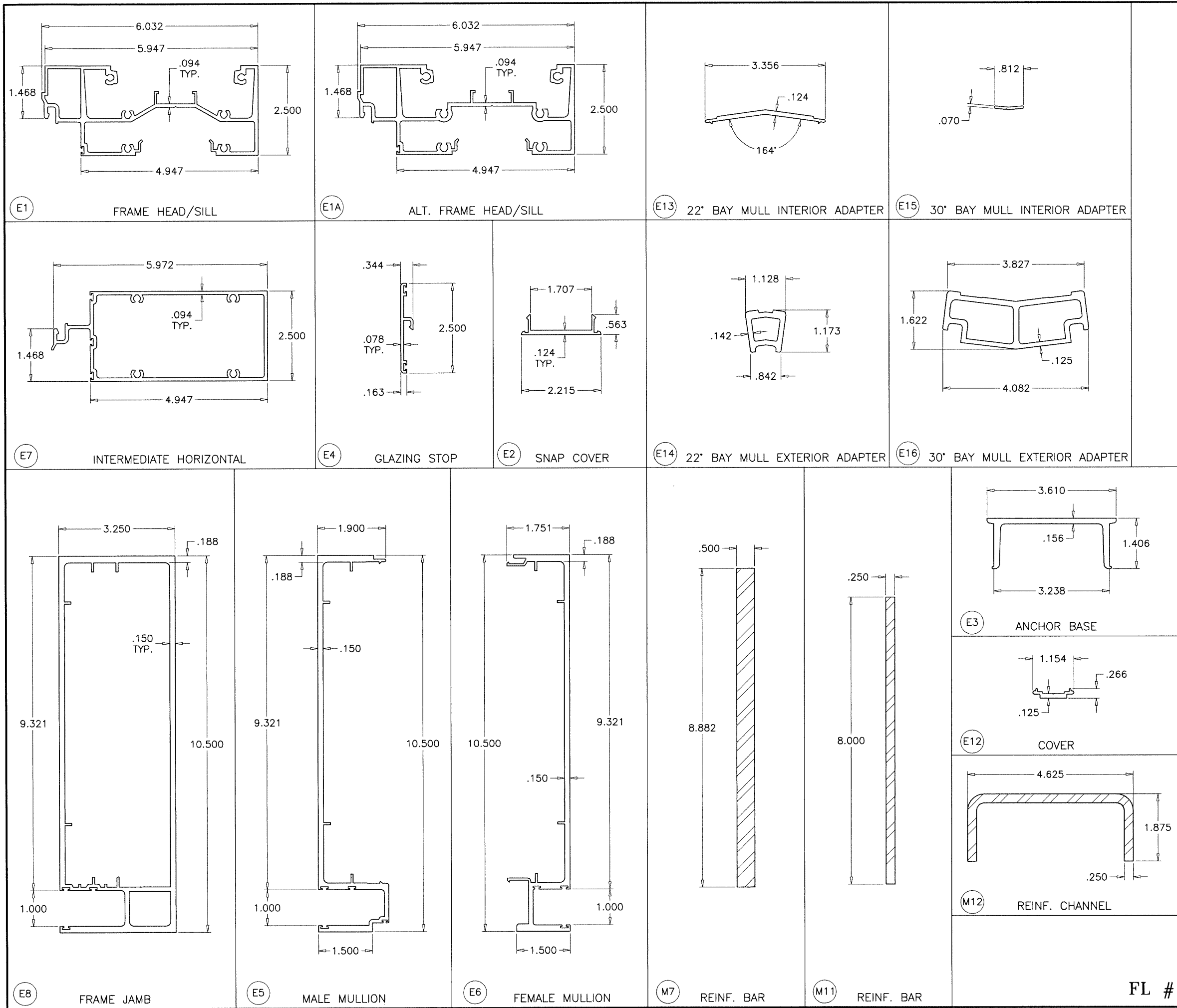
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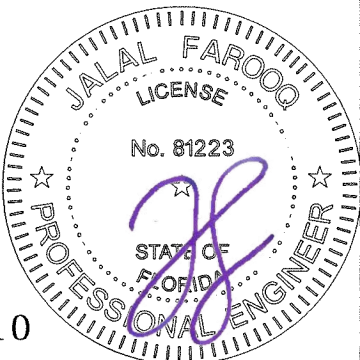
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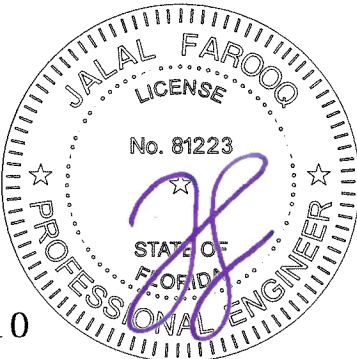
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ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
E1	ES7001A	AS REQD.	FRAME HEAD/SILL	6005-T5	-
E1A	ES-WW1032-001	AS REQD.	ALT. FRAME HEAD/SILL	6005-T5	-
E2	ES7003A	AS REQD.	SNAP COVER	6063-T5	-
E3	ES7004	AS REQD.	ANCHOR BASE (SEE SHEET 4 THRU 6 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	-
E13	ES-WW1032-403	AS REQD.	22" BAY MULLION INTERIOR ADAPTER	6005-T5	-
E14	ES-WW1032-402	AS REQD.	22" BAY MULLION EXTERIOR ADAPTER	6005-T5	-
E15	ES-7000-403	AS REQD.	30" BAY MULLION INTERIOR ADAPTER	6005-T5	-
E16	ES-WW1032-401	AS REQD.	30" BAY MULLION EXTERIOR ADAPTER	6005-T5	-
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
M11	-	AS REQD.	REINFORCING BAR (FRAME LENGTH - 6")	STEEL	A36, Fu MIN. = 58 KSI
M12	-	AS REQD.	REINFORCING CHANNEL (FULL LENGTH)	STEEL	A36, Fu MIN. = 58 KSI

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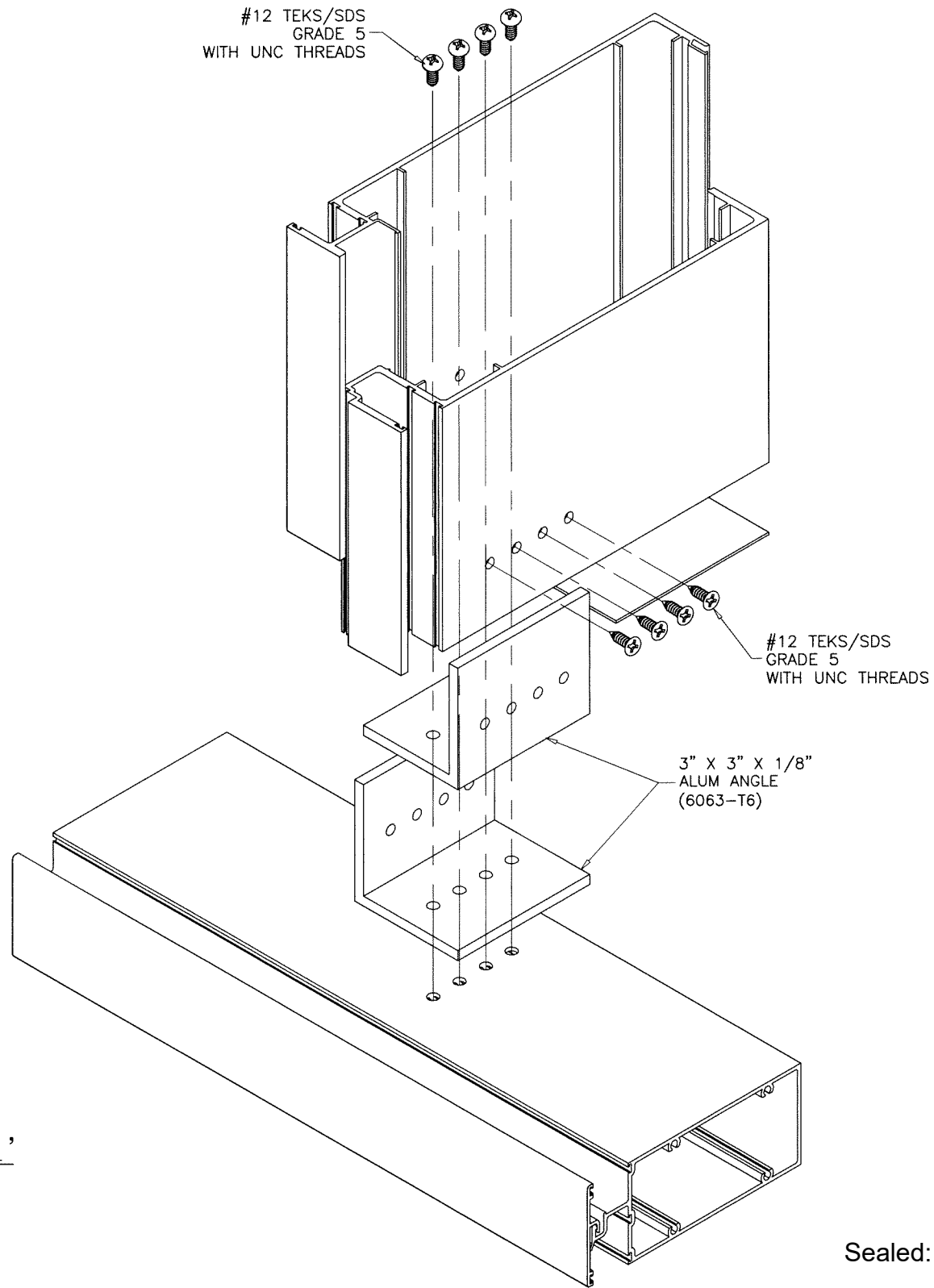
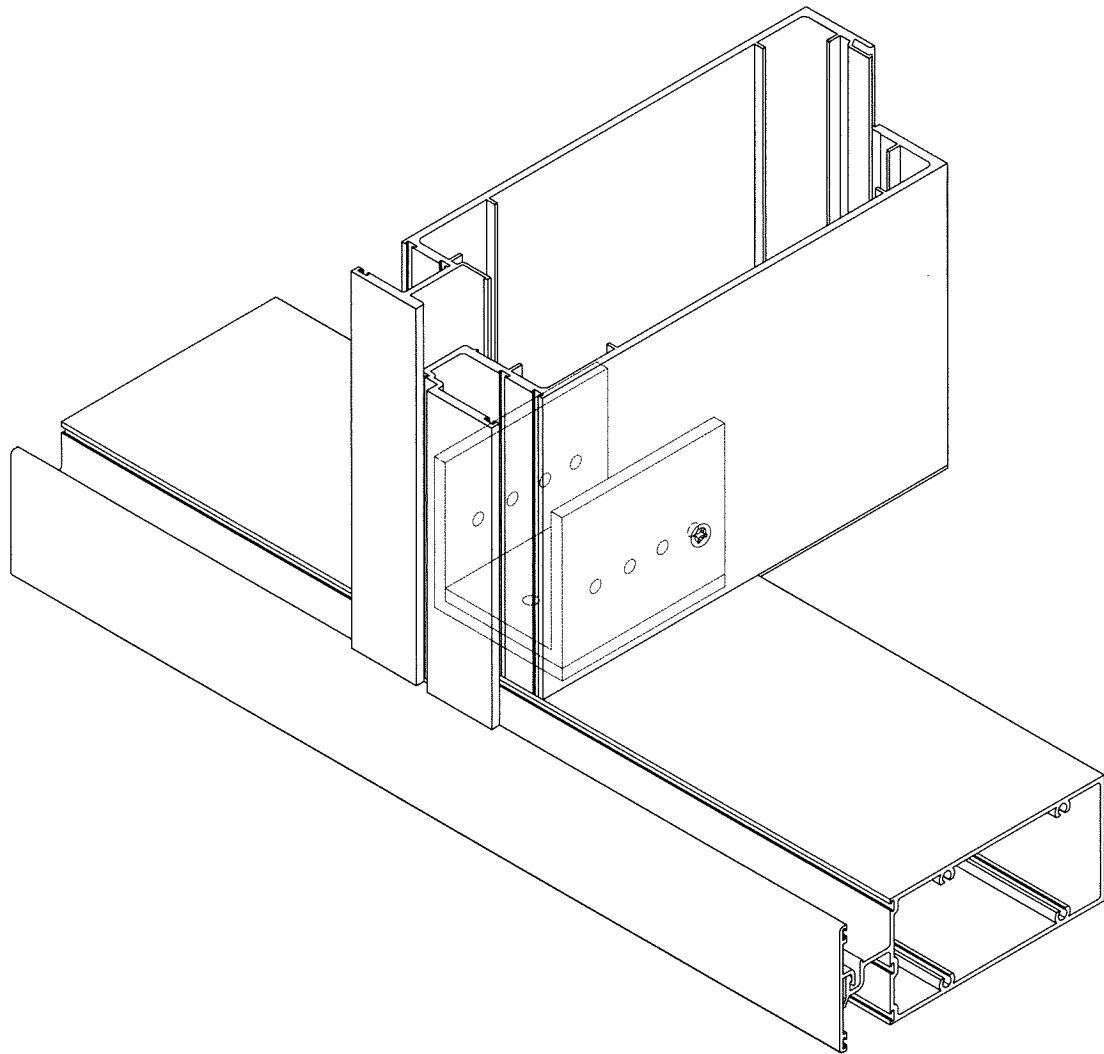
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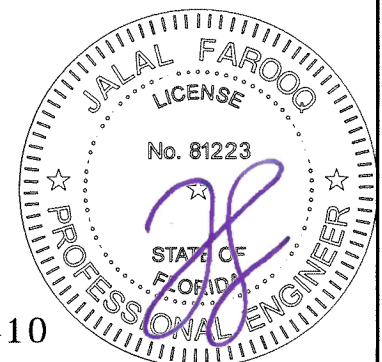
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DETAIL '1'

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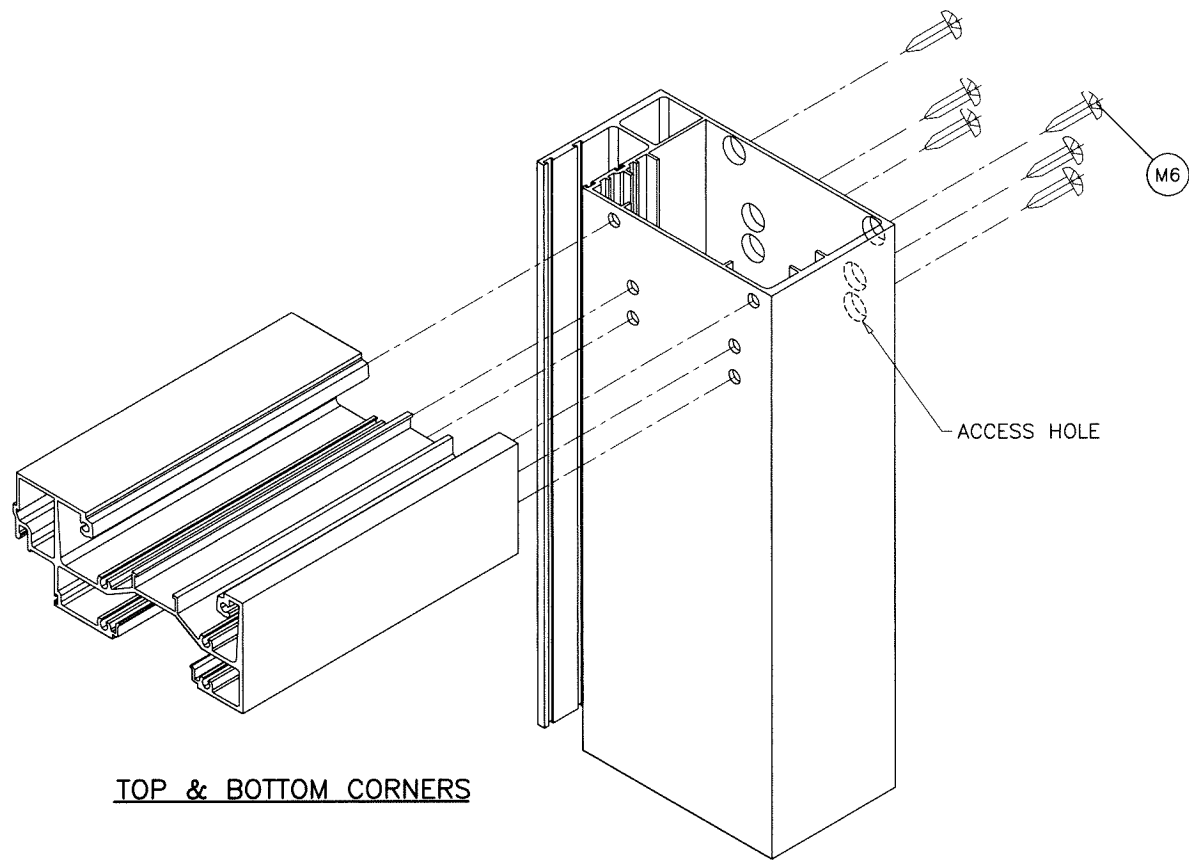
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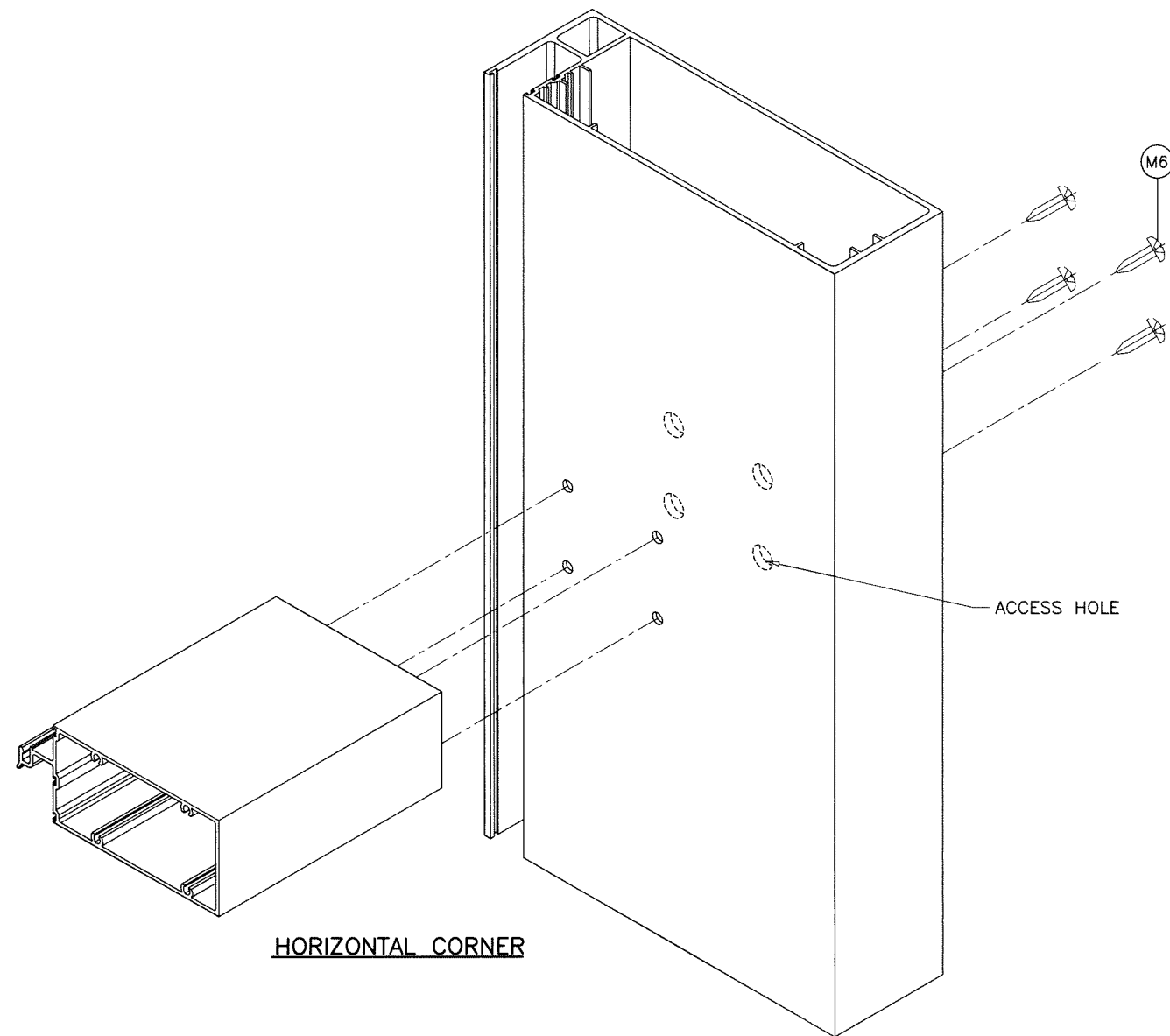
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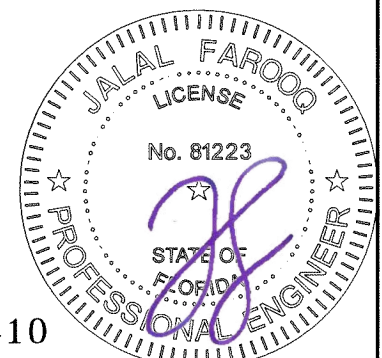


TOP & BOTTOM CORNERS



HORIZONTAL CORNER

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