

THESE MULLIONS ARE TO BE USED WITH GLAZING PRODUCTS
FOR SIDE-BY-SIDE OR TOP-AND-BOTTOM JOINING CONFIGURATIONS.

LOWER DESIGN PRESSURE FROM WINDOW/DOOR APPROVALS
OR MULLION CHARTS WILL APPLY TO THE ENTIRE SYSTEM.

1BY OR 2BY WOOD BUCKS & BUCK FASTENERS BY OTHERS, MUST BE DESIGNED AND INSTALLED ADEQUATELY TO TRANSFER APPLIED PRODUCT LOADS TO THE BUILDING STRUCTURE.

ALL SHIMS TO BE HIGH IMPACT AND NON-COMPRESSIBLE.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

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.

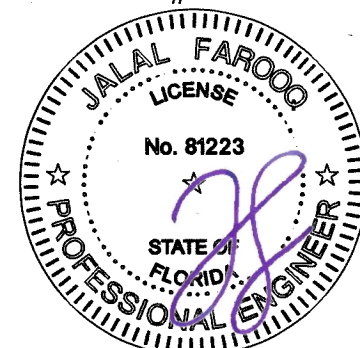
MULLIONS MAY BE USED TO ATTACH TWO OR MORE WINDOWS TOGETHER

INDEX OF DRAWINGS	
SHEET NO.	DESCRIPTION
1	GENERAL NOTES, INSTRUCTIONS AND INDEX OF DRAWINGS.
2	PARTS DRAWINGS.
3 & 4	DESIGN LOAD CAPACITY TABLE FOR M1, M1R, M2R, M2RR VERTICAL MULLION COMBINATIONS AND ANCHOR QUANTITIES AT HEAD & SILL.
5 & 6	DESIGN LOAD CAPACITY TABLE FOR M1R, M2R HORIZONTAL MULLION COMBINATIONS AND ANCHOR QUANTITIES AT JAMBS.
7	DESIGN LOAD CAPACITY TABLE FOR M1R, M2R MULLION DOOR AND ANCHOR QUANTITIES.
8	FRAME ANCHORING DETAIL
9	FRAME ANCHORING DETAIL
10	FRAME ANCHORING DETAIL
11	M1R BASE PLATE DETAILS.
12	M2R & M2RR BASE PLATE DETAILS.

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN LOAD REQUIRED PER ASCE 7 FOR PARTICULAR OPENING.
- STEP 2** USE CONNECTION OF WINDOWS/DOORS TO MULLION AS PER PRODUCT APPROVAL.
- STEP 3** USING CHARTS ON SHEET 3 THRU 7 SELECT MULLION TYPE AND ANCHOR QUANTITIES WITH DESIGN RATING MORE THAN THE DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4** CAPACITY OF SELECTED WINDOWS/DOORS AND MULLION MUST EQUAL OR EXCEED REQUIRED LOADS.

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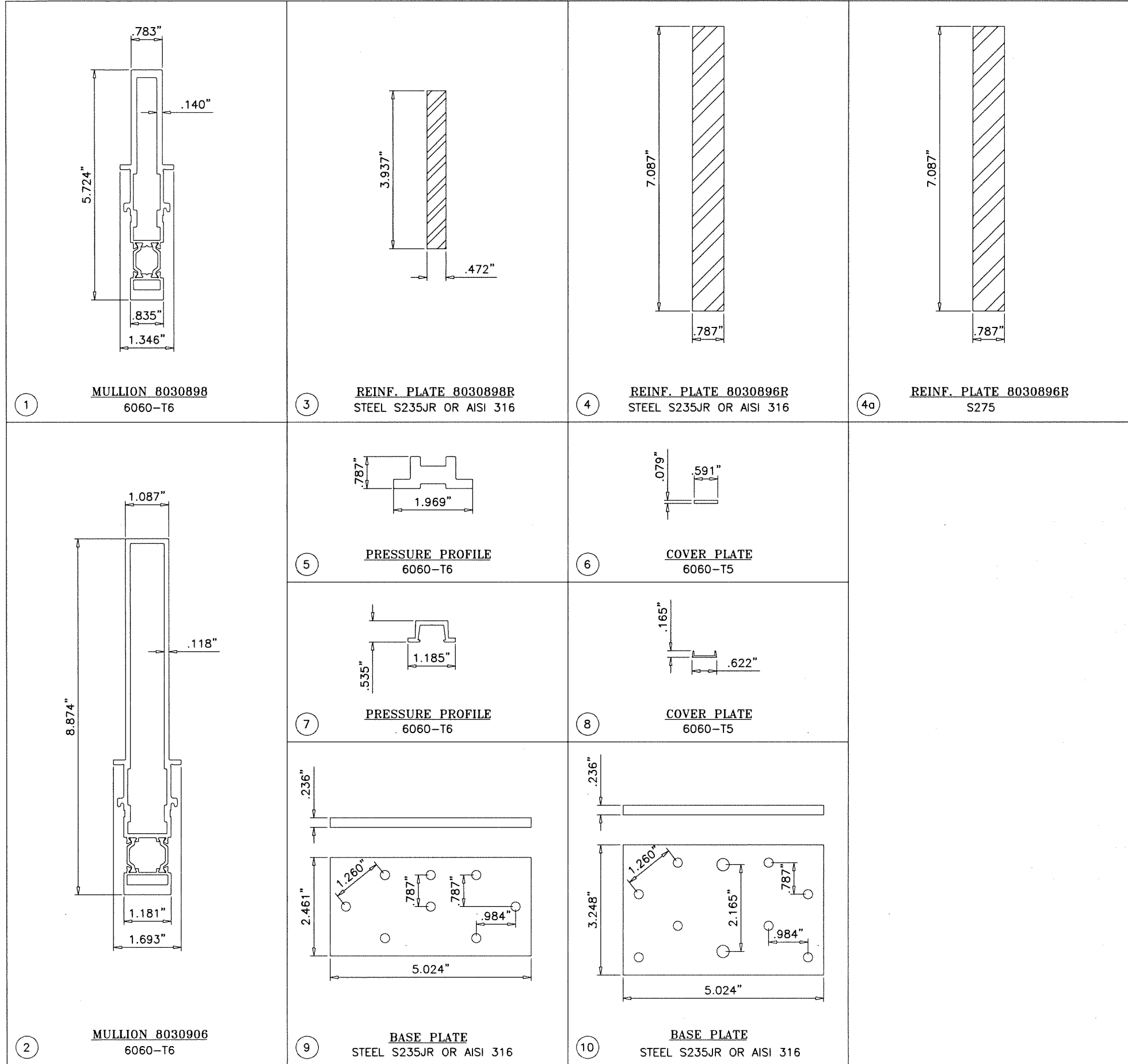


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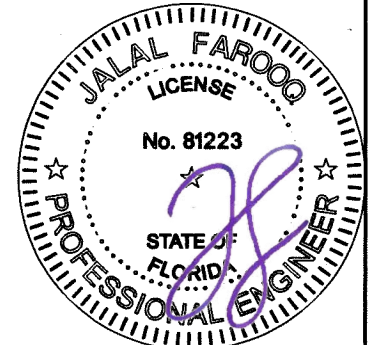
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LUX THERMAL ALUMINUM MULLION (L.M.I.)

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dr. by: Cindy R.
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drawing no.
26-08F
sheet 2 of 12



$I_x \cdot IN^4$	$S_x \cdot IN^3$
2.492	1.049



	$I_x \text{ IN}^4$	$S_x \text{ IN}^3$
ALUMINUM	2.492	1.049
STEEL	2.400	1.219
TOTAL $I_x \text{ ALUM} + I_x \text{ STL} \times E_s/E_a$	9.146	



	Ix IN ⁴	Sx IN ³
ALUMINUM	11.846	3.033
STEEL	23.344	6.588
TOTAL Ix ALUM + Ix STL x Es / Eg	76.563	



	I_x IN ⁴	S_x IN ³
ALUMINUM	11.846	3.033
STEEL	23.344	6.588
TOTAL $I_x \text{ ALUM} + I_x \text{ STL} \times E_s / E_a$	78.873	

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sheet 3 of 12		scale: 6"=1'-0"			
		dr. by: Cindy R.			
		chk. by:			

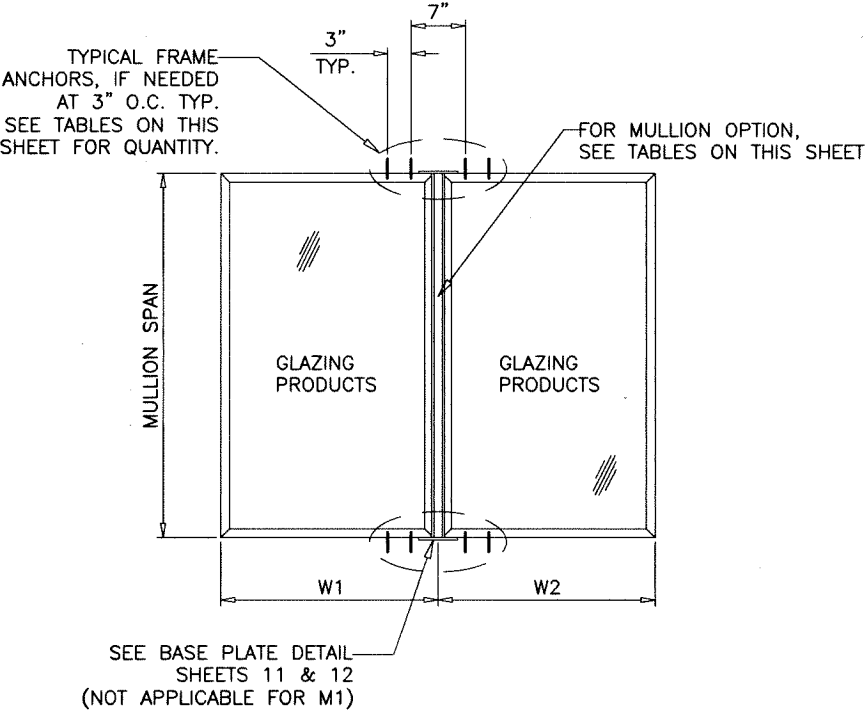
VERTICAL MULLIONS DESIGN LOAD CAPACITY - PSF							
FRAME DIMENSIONS.		MULLION 'M1'		MULLION 'M1R'			
		CAPACITY (PSF)		TYPICAL FRAME ANCHORS	CAPACITY (PSF)		ADDITIONAL TYPICAL FRAME ANCHORS W/ BASE PLATE ANCHOR TYPES 'A' & 'C'
WIDTH (W)	MULLION SPAN	EXT.(+)	INT.(-)		EXT.(+)	INT.(-)	
48"	66"	65.2	65.2	2	65.2	65.2	-
54"		65.2	65.2	2	65.2	65.2	-
60"		65.2	65.2	2	65.2	65.2	-
66"		65.2	65.2	2	65.2	65.2	-
72"		65.2	65.2	2	65.2	65.2	-
76-1/4"		65.2	65.2	2	65.2	65.2	-
78"		65.2	65.2	2	65.2	65.2	-
84"		65.2	65.2	2	65.2	65.2	-
90"		65.2	65.2	2	65.2	65.2	-
36"	72"	65.2	65.2	2	65.2	65.2	-
42"		65.2	65.2	2	65.2	65.2	-
48"		61.7	61.7	2	65.2	65.2	-
54"		57.5	57.5	2	65.2	65.2	-
60"		54.8	54.8	2	65.2	65.2	-
66"		53.2	53.2	2	65.2	65.2	-
72"		52.6	52.6	2	65.2	65.2	-
76-1/4"		52.6	52.6	2	65.2	65.2	-
78"		52.6	52.6	2	65.2	65.2	-
36"	78"	63.7	63.7	2	65.2	65.2	-
42"		56.1	56.1	2	65.2	65.2	-
48"		50.8	50.8	2	65.2	65.2	-
54"		47.0	47.0	2	65.2	65.2	-
60"		44.3	44.3	2	65.2	65.2	-
66"		42.5	42.5	2	65.2	65.2	-
72"		41.4	41.4	2	65.2	65.2	-
76-1/4"		41.1	41.1	2	65.2	65.2	-
36"	84"	-	-	-	65.2	65.2	-
42"		-	-	-	65.2	65.2	-
48"		-	-	-	65.2	65.2	-
54"		-	-	-	65.2	65.2	-
56"		-	-	-	65.2	65.2	-
36"	90"	-	-	-	65.2	65.2	-
42"		-	-	-	65.2	65.2	-
48"		-	-	-	65.2	65.2	-
52"		-	-	-	65.2	65.2	-
36"	96"	-	-	-	65.2	65.2	-
42"		-	-	-	65.2	65.2	-
48"		-	-	-	65.2	65.2	-
49"		-	-	-	65.2	65.2	-
36"	108"	-	-	-	65.2	65.2	-
42"		-	-	-	65.2	65.2	-
43"		-	-	-	65.2	65.2	-
36"	114"	-	-	-	65.2	65.2	-
41"		-	-	-	65.2	65.2	-
36"	120"	-	-	-	65.2	65.2	-
39-1/4"		-	-	-	63.7	63.7	-

TYPICAL FRAME ANCHOR QUANTITIES IN THE ABOVE TABLE REFER TO THE ADJACENT SYSTEM FRAME ANCHORS, SEE SHEETS 8 THRU 10 AND CORRESPONDING APPROVALS FOR SPECIFICATIONS.
FOR BASE PLATE ANCHORS QUANTITIES AND SPECIFICATIONS, SEE SHEETS 11 AND 12.

INTERPOLATION BETWEEN WIDTHS ALLOWED

VERTICAL MULLIONS DESIGN LOAD CAPACITY - PSF							
FRAME DIMENSIONS.		MULLION 'M2R'		MULLION 'M2RR'			
		CAPACITY (PSF)		ADDITIONAL TYPICAL FRAME ANCHORS W/ BASE PLATE ANCHOR TYPES 'A' & 'C'	CAPACITY (PSF)		ADDITIONAL TYPICAL FRAME ANCHORS W/ BASE PLATE ANCHOR TYPES 'A' & 'C'
WIDTH (W)	MULLION SPAN	EXT.(+)	INT.(-)		EXT.(+)	INT.(-)	
180"	120"	65.2	65.2	-	65.2	65.2	-
162"	132"	65.2	65.2	-	65.2	65.2	-
150"	144"	65.2	65.2	-	65.2	65.2	-
139"	156"	65.2	65.2	-	65.2	65.2	-
99"	168"	65.2	65.2	-	65.2	65.2	-
114"		59.2	59.2	-	65.2	65.2	2
120"		57.4	57.4	-	65.2	65.2	2
129"		55.2	55.2	-	65.2	65.2	2
96"	178-3/4"	58.5	58.5	-	65.2	65.2	-
102"		55.5	55.5	-	65.2	65.2	2
108"		53.2	53.2	-	65.2	65.2	2
114"		51.2	51.2	-	65.2	65.2	4
120"		49.5	49.5	-	65.2	65.2	4
121-3/4"		49.2	49.2	-	65.2	65.2	4

TYPICAL FRAME ANCHOR QUANTITIES IN THE ABOVE TABLE REFER TO THE ADJACENT SYSTEM FRAME ANCHORS, SEE SHEETS 8 THRU 10 AND CORRESPONDING APPROVALS FOR SPECIFICATIONS.
FOR BASE PLATE ANCHORS QUANTITIES AND SPECIFICATIONS, SEE SHEETS 11 AND 12.

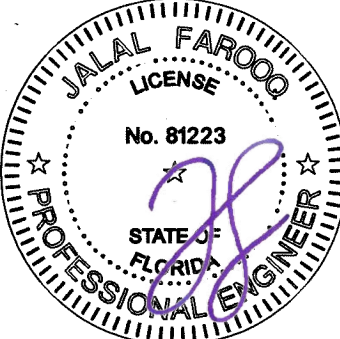


TYPICAL ELEVATION
SIDE BY SIDE APPLIES TO
TWO OR MORE PRODUCTS

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

INTERPOLATION BETWEEN WIDTHS ALLOWED

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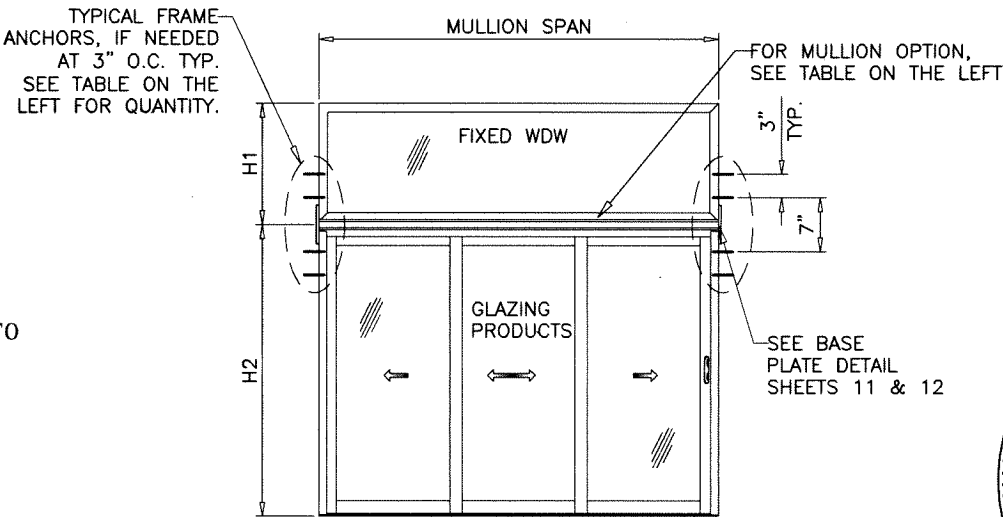
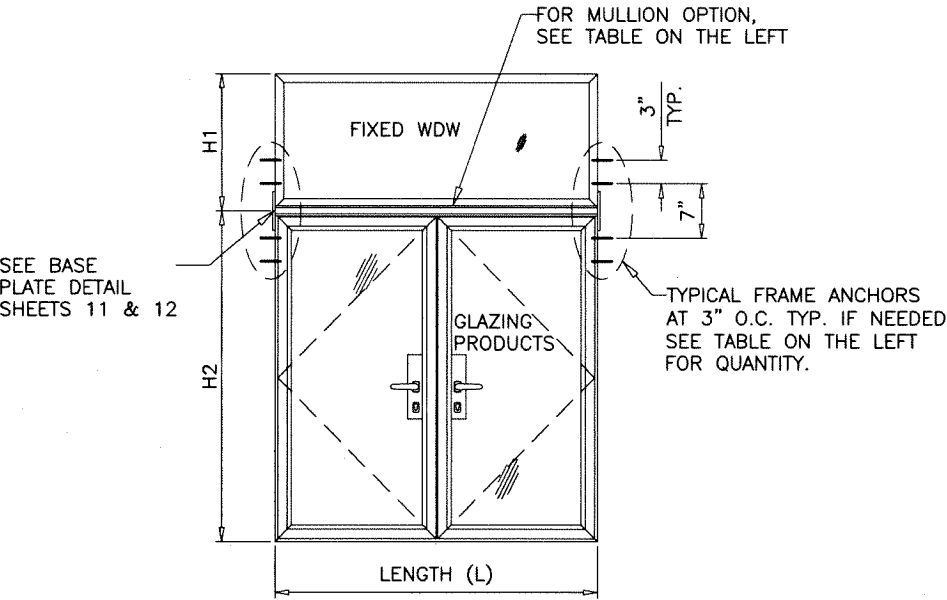
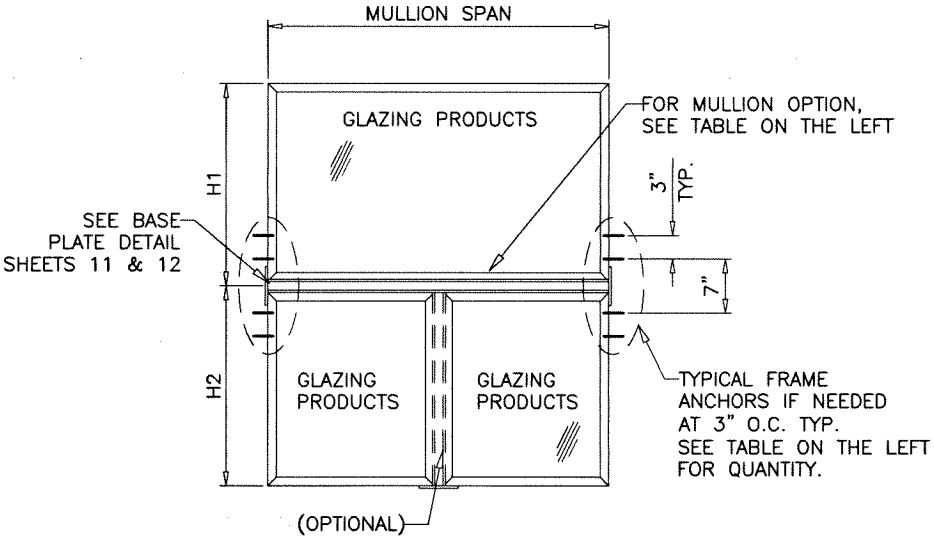
HORIZONTAL MULLIONS DESIGN LOAD CAPACITY - PSF									
FRAME DIMENSIONS.		MULLION 'M1R'				MULLION 'M2R'			
		CAPACITY (PSF)		ADDITIONAL TYPICAL FRAME ANCHORS		CAPACITY (PSF)		ADDITIONAL TYPICAL FRAME ANCHORS	
HEIGHT (H)	MULLION SPAN	EXT.(+)	INT.(-)	W/ BASE PLATE ANCHOR TYPES 'A' & 'C'	W/ BASE PLATE ANCHOR TYPE 'B'	EXT.(+)	INT.(-)	W/ BASE PLATE ANCHOR TYPES 'A' & 'C'	W/ BASE PLATE ANCHOR TYPE 'B'
72"	72"	65.2	65.2	-	-	65.2	65.2	-	-
78"		65.2	65.2	-	2	65.2	65.2	-	-
84"		65.2	65.2	-	2	65.2	65.2	-	-
85"		65.2	65.2	-	2	65.2	65.2	-	-
72"	76"	65.2	65.2	-	2	65.2	65.2	-	-
78"		65.2	65.2	-	2	65.2	65.2	-	-
80"		65.2	65.2	-	2	65.2	65.2	-	-
72"	78-1/2"	65.2	65.2	-	2	65.2	65.2	-	-
78"		64.4	64.4	-	2	65.2	65.2	-	-
105"		-	-	-	-	65.2	65.2	-	2
120"		-	-	-	-	65.2	65.2	-	4
59"	120"	-	-	-	-	65.2	65.2	-	-
68"		-	-	-	-	65.2	65.2	-	2
78"		-	-	-	-	65.2	65.2	-	4
84"		-	-	-	-	65.2	65.2	-	6
91"		-	-	-	-	65.2	65.2	-	8
93"		-	-	-	-	29.2	29.2	-	-
54"	132"	-	-	-	-	65.2	65.2	-	2
71"		-	-	-	-	65.2	65.2	-	4
74"		-	-	-	-	53.4	53.4	-	2
49"	144"	-	-	-	-	65.2	65.2	-	-
57"		-	-	-	-	65.2	65.2	-	2
61"		-	-	-	-	65.2	65.2	-	4
62"		-	-	-	-	48.3	48.3	-	-
46"	152-1/2"	-	-	-	-	65.2	65.2	-	-
54"		-	-	-	-	65.2	65.2	-	2
56"		-	-	-	-	35.6	35.6	-	-

TYPICAL FRAME ANCHOR QUANTITIES IN THE ABOVE TABLE REFER TO THE ADJACENT SYSTEM FRAME ANCHORS, SEE SHEETS 8 THRU 10 AND CORRESPONDING APPROVALS FOR SPECIFICATIONS.
FOR BASE PLATE ANCHORS QUANTITIES AND SPECIFICATIONS, SEE SHEETS 11 AND 12.

INTERPOLATION BETWEEN WIDTHS ALLOWED

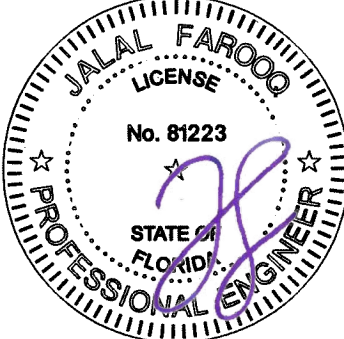
TYPICAL ELEVATIONS
TOP AND BOTTOM APPLIES TO
TWO PRODUCTS

HEIGHT (H) = $\frac{H1 + H2}{2}$



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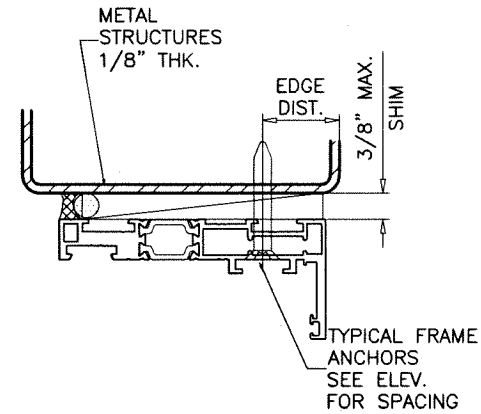
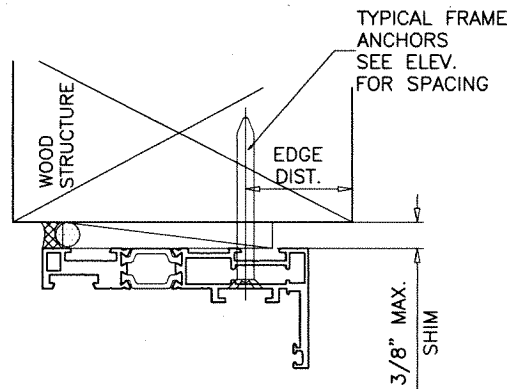
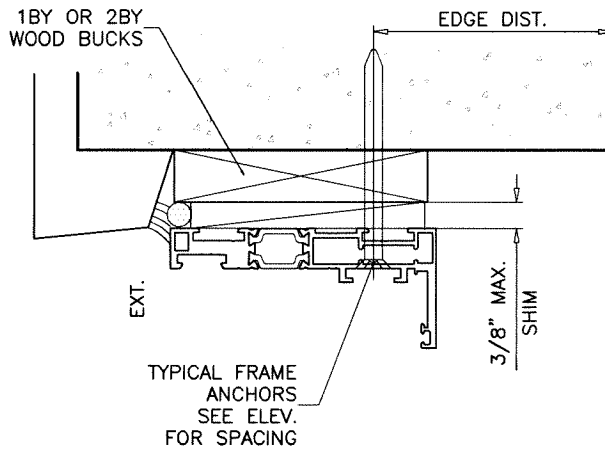
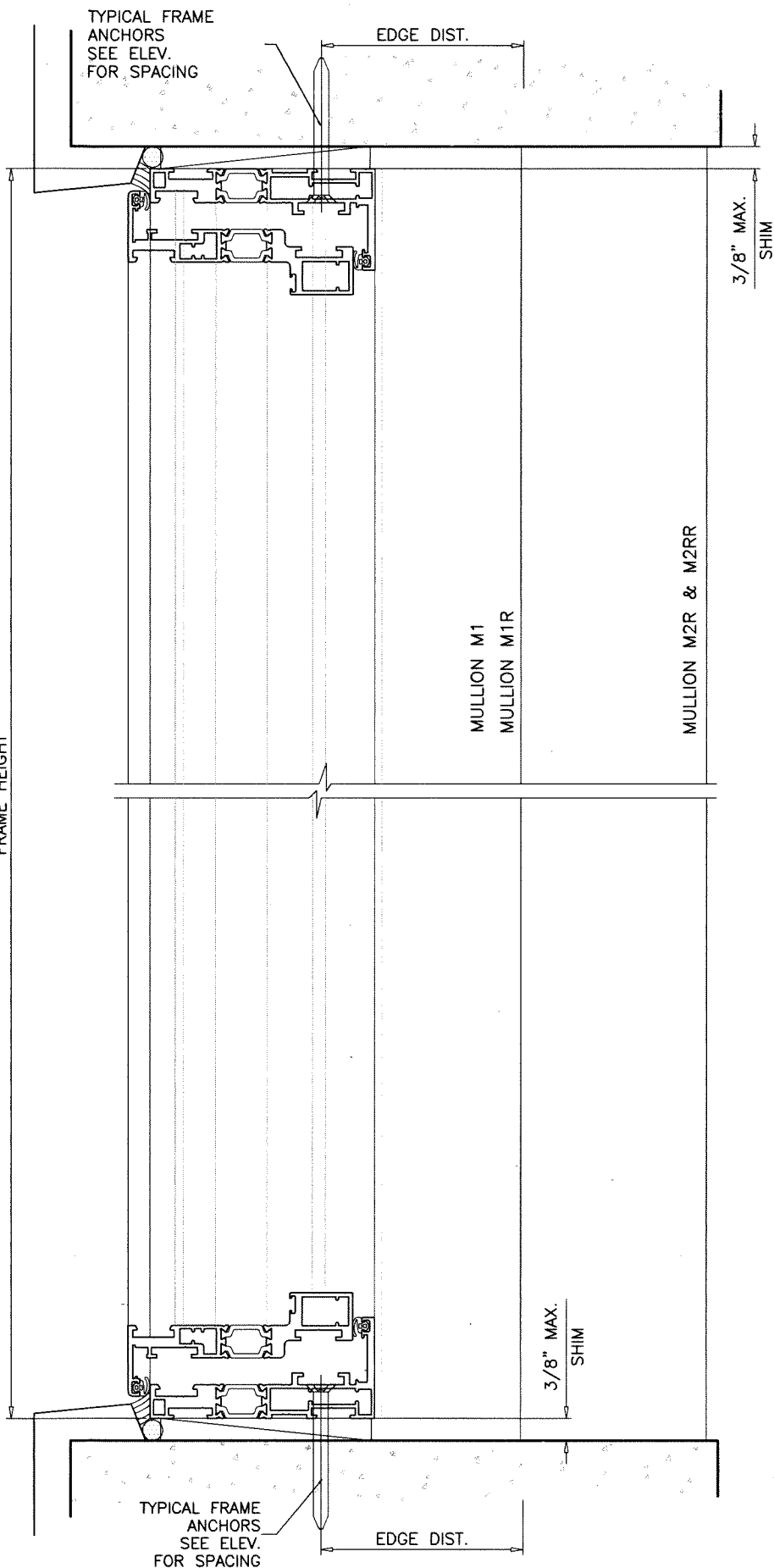
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								sheet 6 of 12	

EXTERIOR

FRAME HEIGHT



TYPICAL FRAME ANCHORS THRU FRAME INSTALLATION DETAILS SHOWN.
FOR ALTERNATE TYP. ANCHOR INSTALLATION METHOD, REFER TO
SEPARATE PRODUCT APPROVALS.

TYPICAL FRAME ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)

INTO WOOD STRUCTURES

2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY OR 2BY WOOD BUCKS INTO CONC. OR BLOCKS

2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

2" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS

2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

2" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

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

INTO MIAMI-DADE COUNTY APPROVED MULLIONS

AND

INTO METAL STRUCTURES (HEAD/SILL/JAMBS)

(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS

ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)

STEEL: 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)

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

CRITICAL EDGE DISTANCE

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

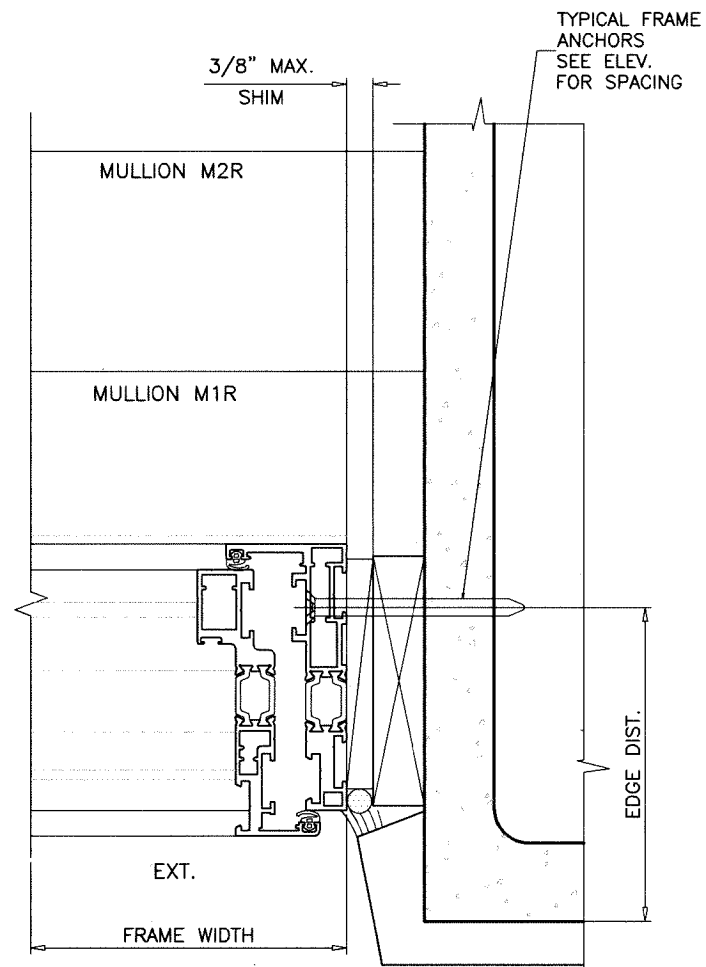
INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.

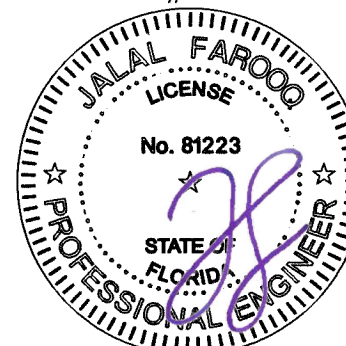
CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.

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



MULLION M1/M1R/M2R/M2RR
LUX THERMAL OUTSWING CASEMENT WINDOW

FL #48159



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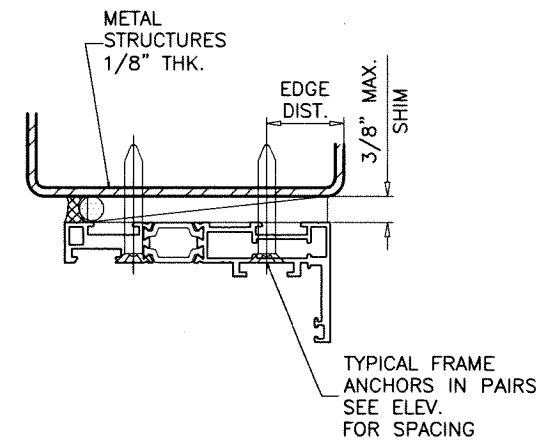
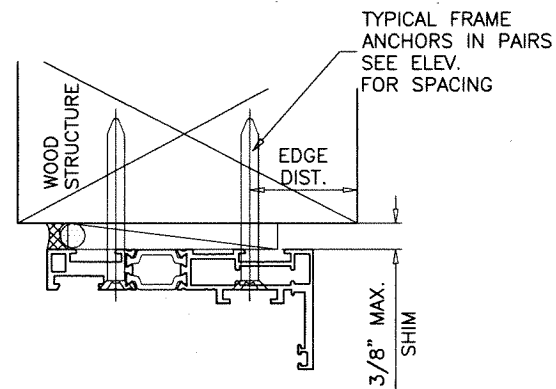
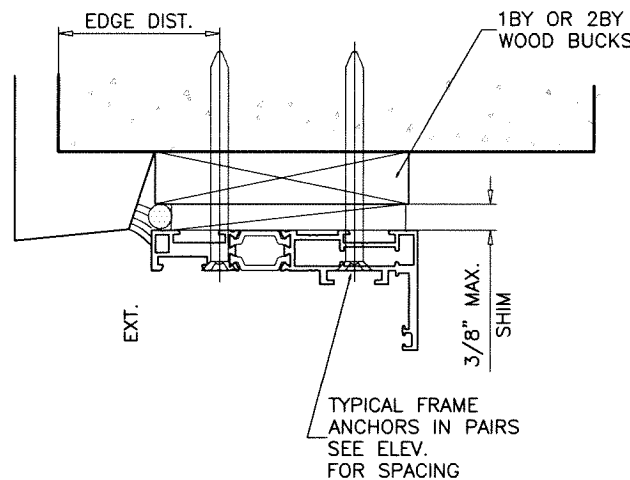
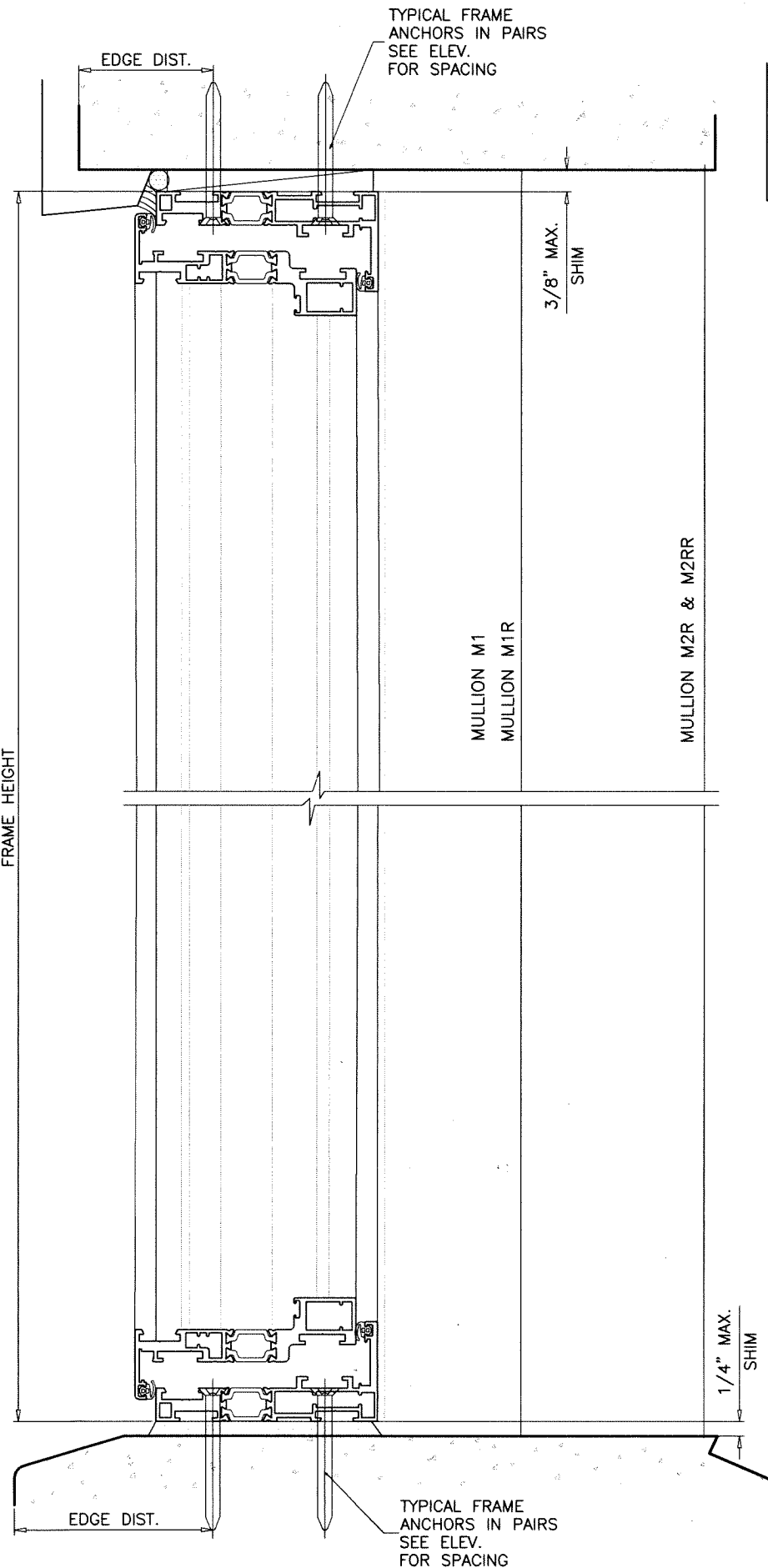
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EXTERIOR

FRAME HEIGHT



TYPICAL FRAME ANCHORS THRU FRAME INSTALLATION DETAILS SHOWN.
FOR ALTERNATE TYP. ANCHOR INSTALLATION METHOD, REFER TO
SEPARATE PRODUCT APPROVALS.

TYPICAL FRAME ANCHORS: SEE ELEV. FOR SPACING

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

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

THRU 1BY WOOD BUCKS INTO CONC. OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

DIRECTLY INTO CONCRETE OR BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

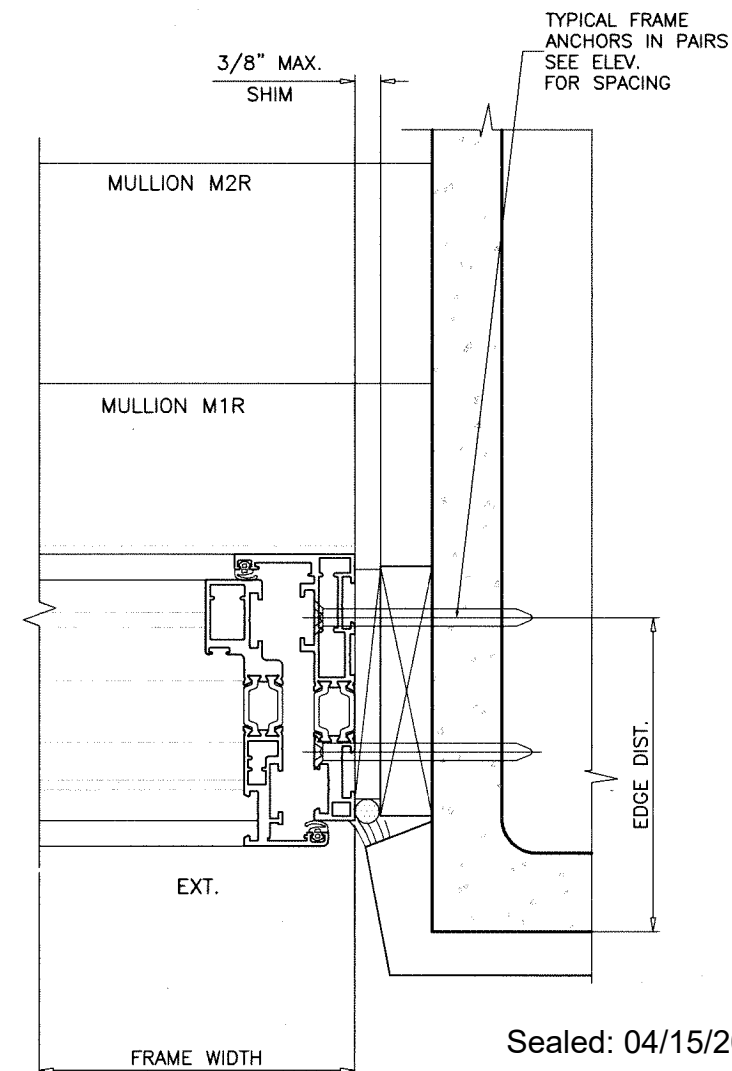
1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

INTO F.B.C. APPROVED MULLIONS
AND
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
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)

CRITICAL EDGE DISTANCE

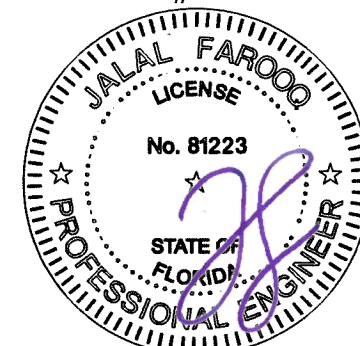
INTO CONCRETE AND BLOCKS = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD, SILL OR JAMBS SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMBS f'c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS f'm = 2000 PSI MIN.



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FL #48159



MULLION M1/M1R/M2R/M2RR
LUX THERMAL OUTSWING ENTRANCE DOOR

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)

LUX THERMAL ALUMINUM MULLION (L.M.I.)

Viewscapes

Via Padova, 14-31041
Cornuda (TV), Italy 31041
Tel. +39 0423 83607
www.roccon.it

revisions:
no date by description

date: 03-31-2026

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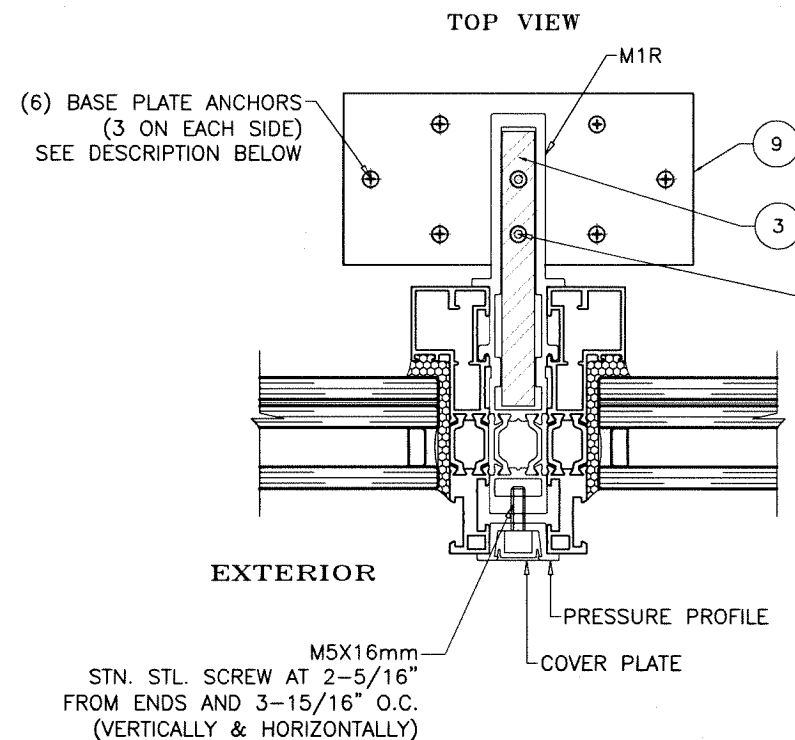
dr. by: Cindy R.

chk. by:

drawing no.

26-08F

sheet 10 of 12



REINFORCEMENT
BAR SECURED WITH
(2) STAINLESS STEEL ANCHORS
1/4"x1" SPACED AT 0.787"

MULLION M1R BASE PLATE DETAILS.

LUX THERMAL FIXED WINDOW DETAILS SHOWN.
ALSO APPLICABLE TO OTHER LUX PRODUCTS.

BASE PLATE ANCHORS:

TYPE 'A' - 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
INTO WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

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

THRU 1BY OR 2BY WOOD BUCKS INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)

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

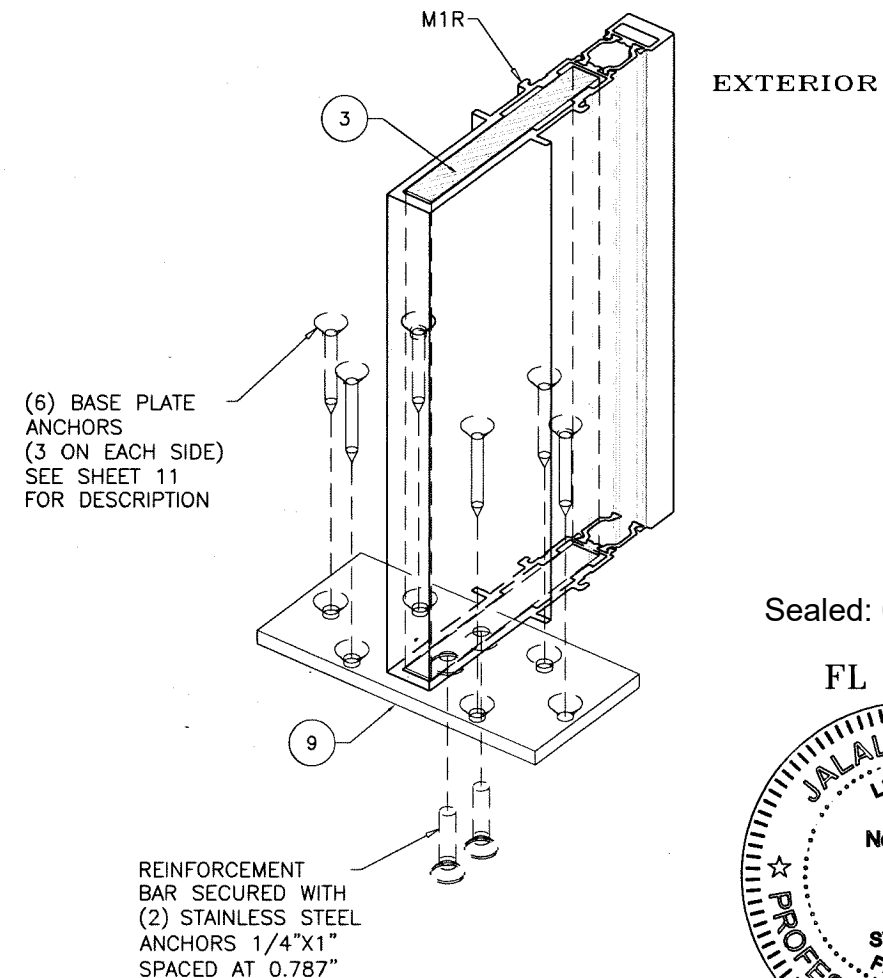
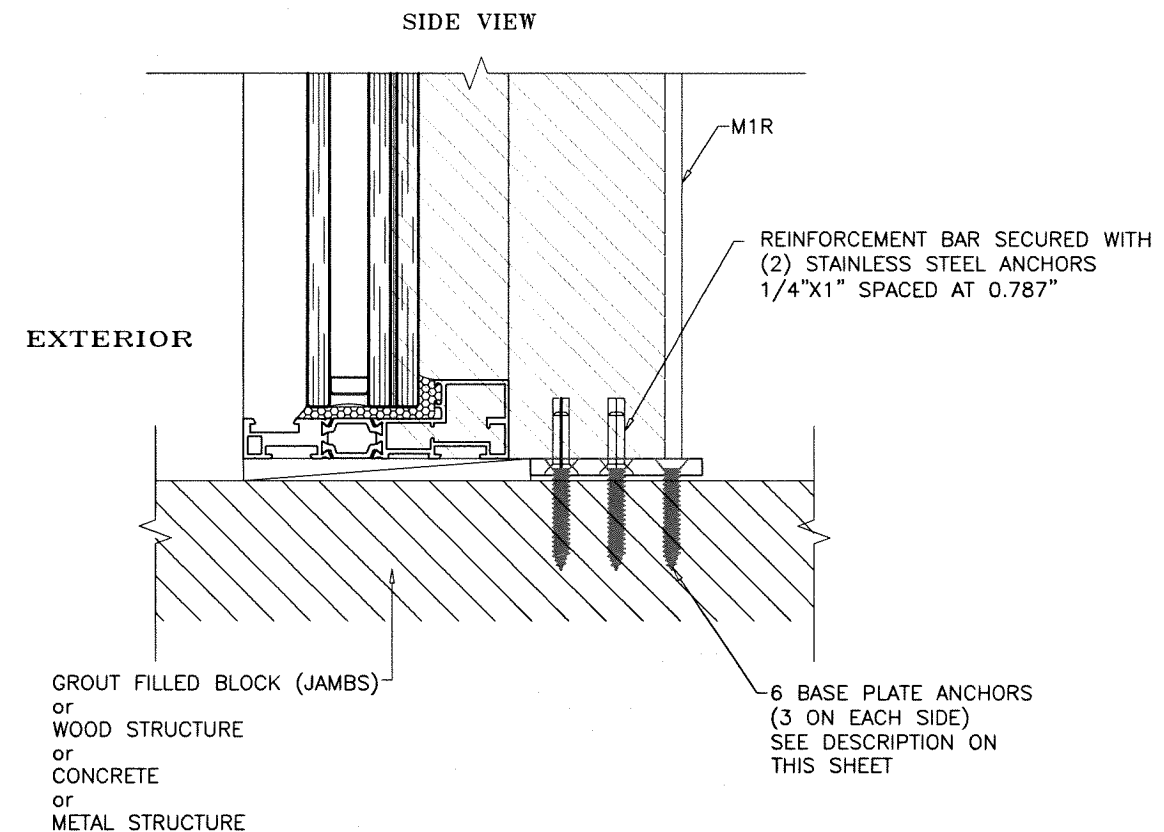
THRU 1BY OR 2BY WOOD BUCKS INTO BLOCKS
1-1/4" MIN. EMBED INTO GROUT-FILLED BLOCKS (JAMBS)

TYPE 'C' - 1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
AND
INTO METAL STRUCTURES (HEAD/SILL/JAMBS)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
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)

CRITICAL EDGE DISTANCE

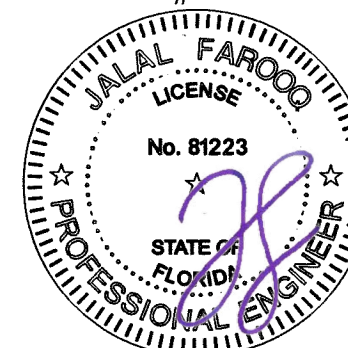
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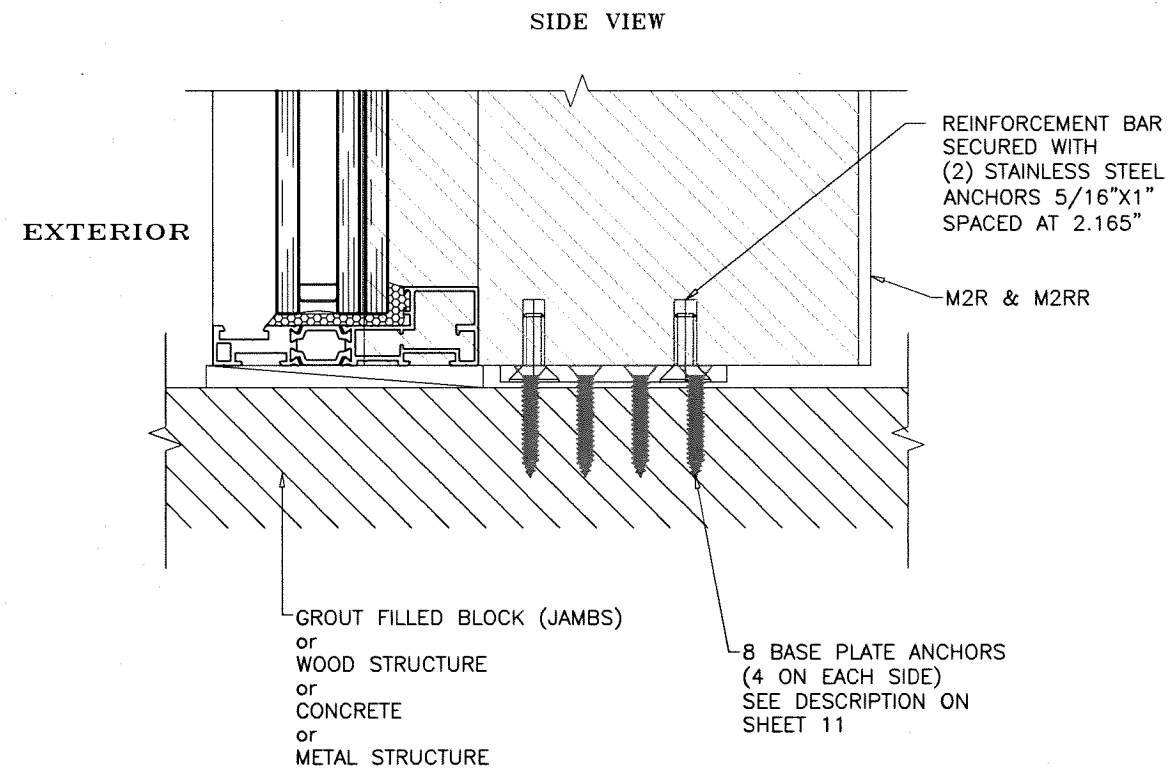
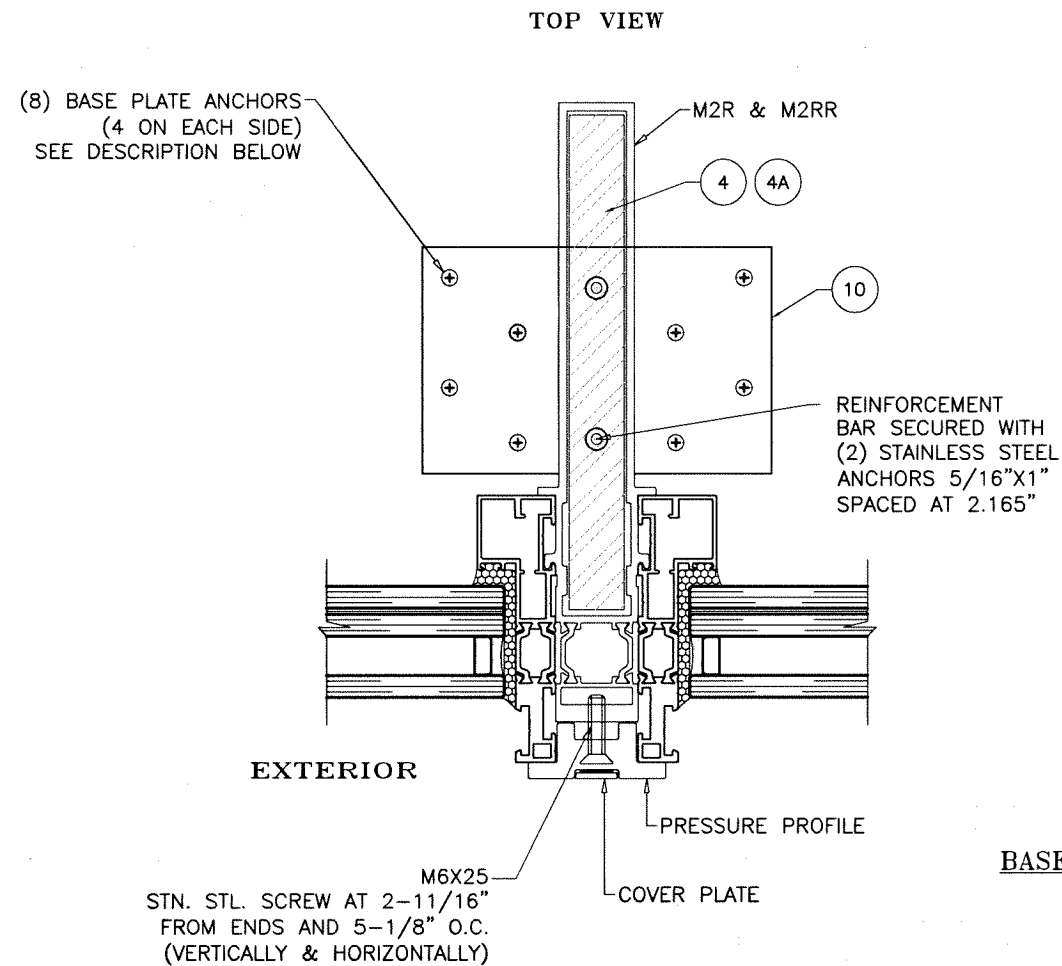
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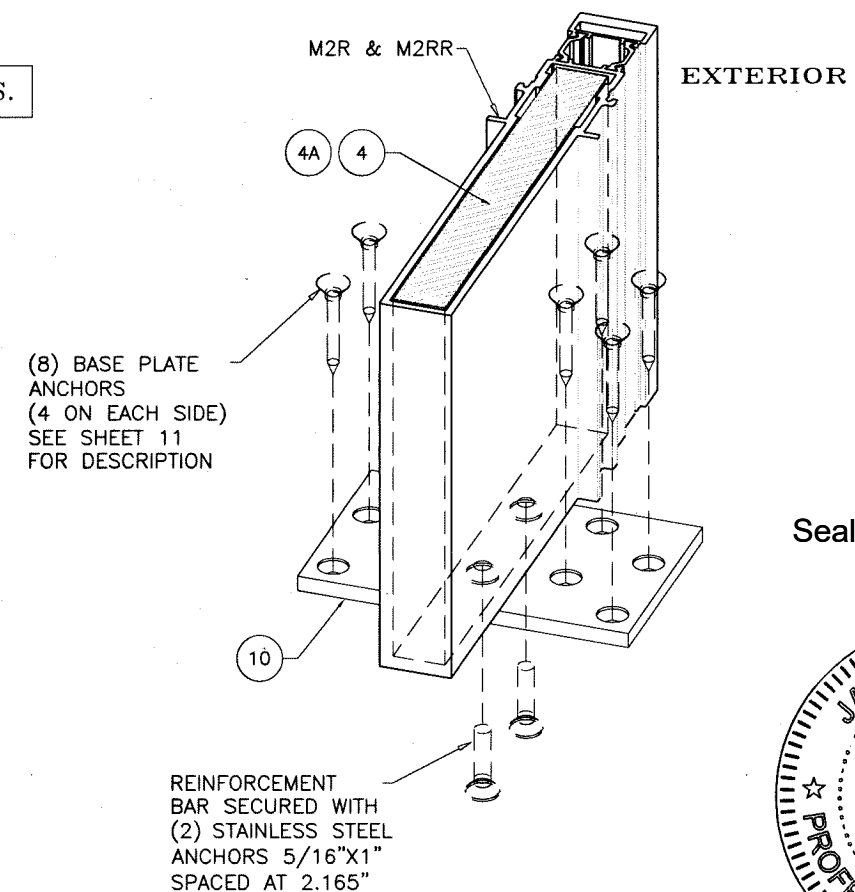
sheet 11 of 12



BASE PLATE ANCHORS: SEE SHEET 11 FOR DESCRIPTION.

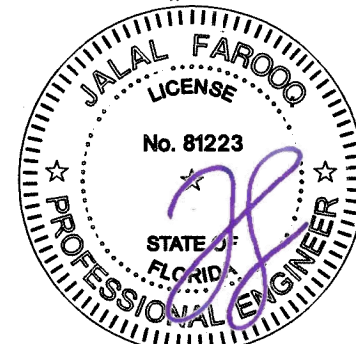
MULLION M2R & M2RR BASE PLATE DETAILS.

LUX THERMAL FIXED WINDOW DETAILS SHOWN.
ALSO APPLICABLE TO OTHER LUX PRODUCTS.



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