

CURTAIN WALL WITH GLASS TYPES 'A' AND 'Ai' COMPLY WITH REQUIREMENTS OF ANSI Z97.1.

THIS SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

**SERIES 2000 STICK
ALUMINUM CURTAIN WALL SYSTEM**

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2017 (6TH EDITION)/2020 (7TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

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

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2017/2020 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

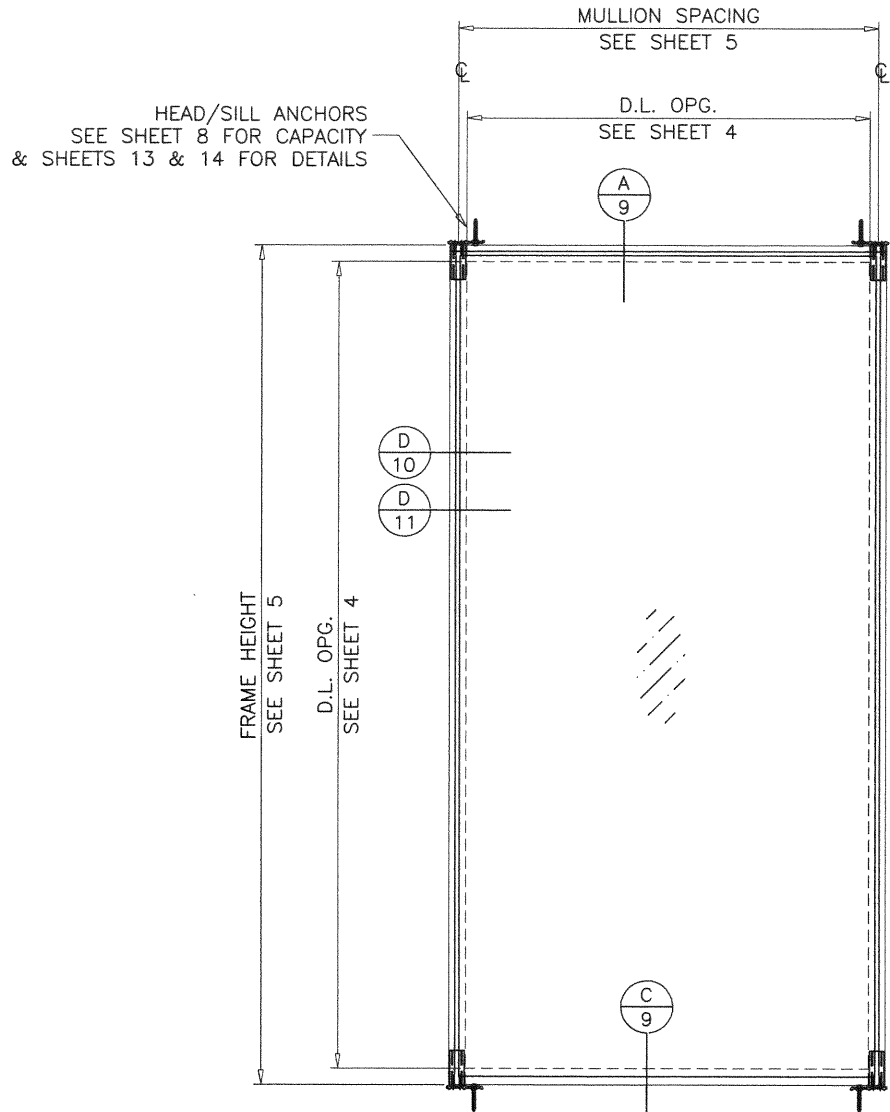
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, 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 4 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 5 FOR SINGLE SPANS AND SHEET 7 FOR MULTIPLE SPANS. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** USING CHARTS ON SHEET 8 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 UNANCHORED JAMBS, USING SHEET 10, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.
- STEP 7** WHEN USING THIS SYSTEM WITH DOORS, SEE SHEET 7 FOR DOOR MULLION CAPACITY. THE LOWER VALUE OF THE DESIGN PRESSURE RATING FOR THE SYSTEM AND THE DOOR SHALL APPLY.



TYPICAL ELEVATION
SINGLE 'O' PANEL

**LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT**

Sealed:8/12/2020 FL #27401

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.

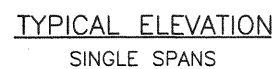


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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173 (C.A.N. 3538)
TEL. (305) 264-8100 FAX. (305) 262-6978

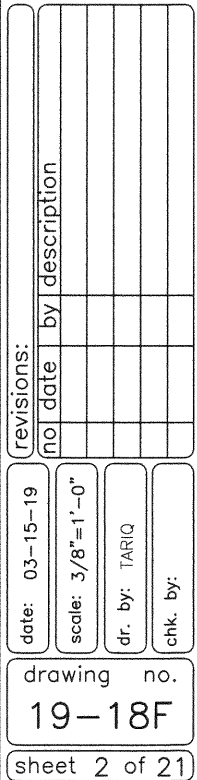
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:		description	
no	date	by	
A	12.04.19		NEW TESTS ADDED
B	07.22.20		UPDATED TO 2020 FBC
date: 03-15-19		scale: -	
dr. by: TARIQ		chk. by:	
drawing no.		19-18F	
sheet 1 of 21			

COMP-ANL\19-18F-MG



FL #27401

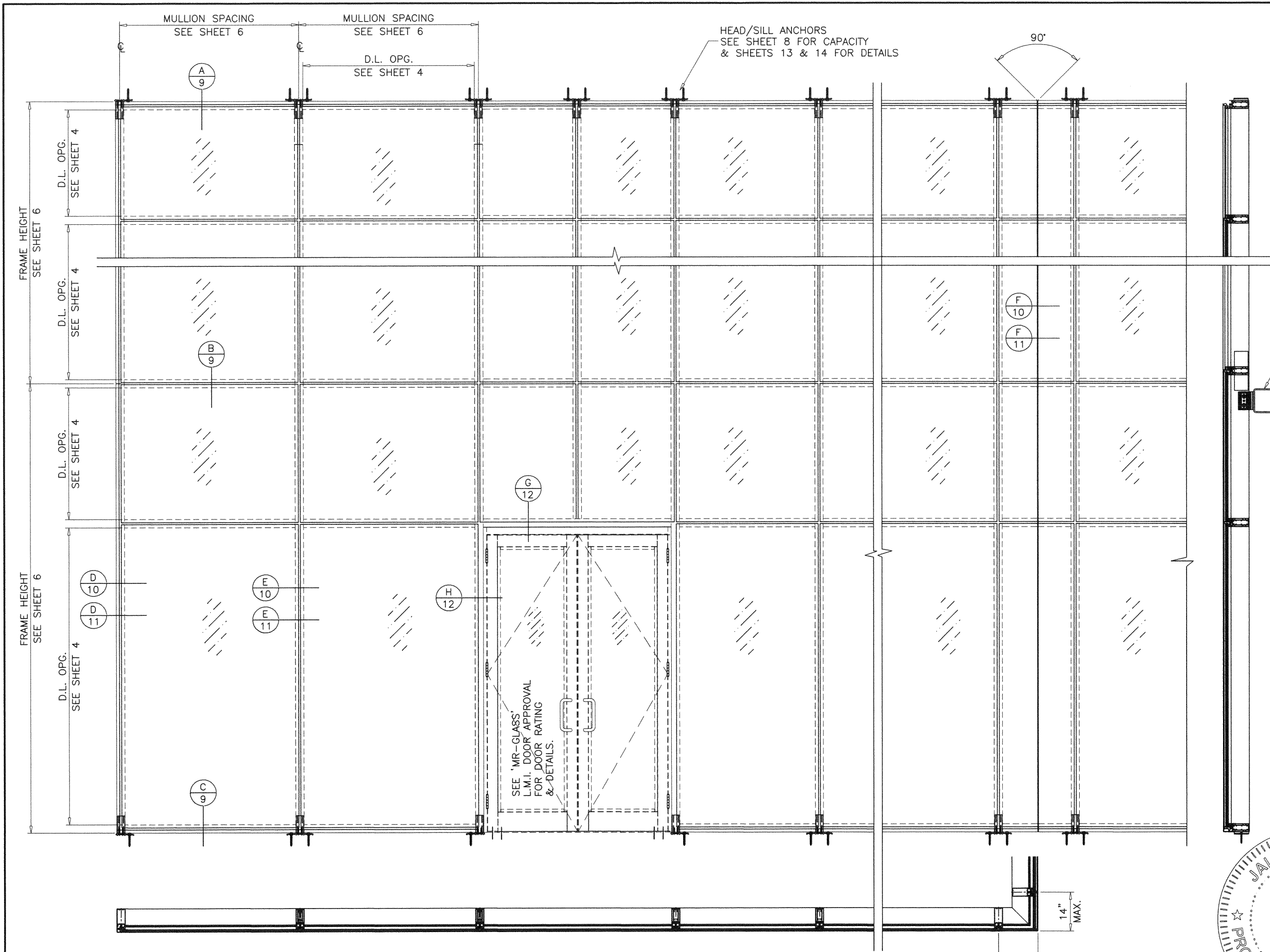


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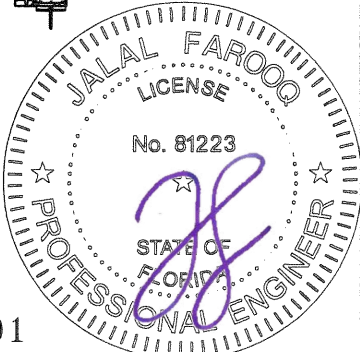
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TYPICAL ELEVATION
TWIN SPANS

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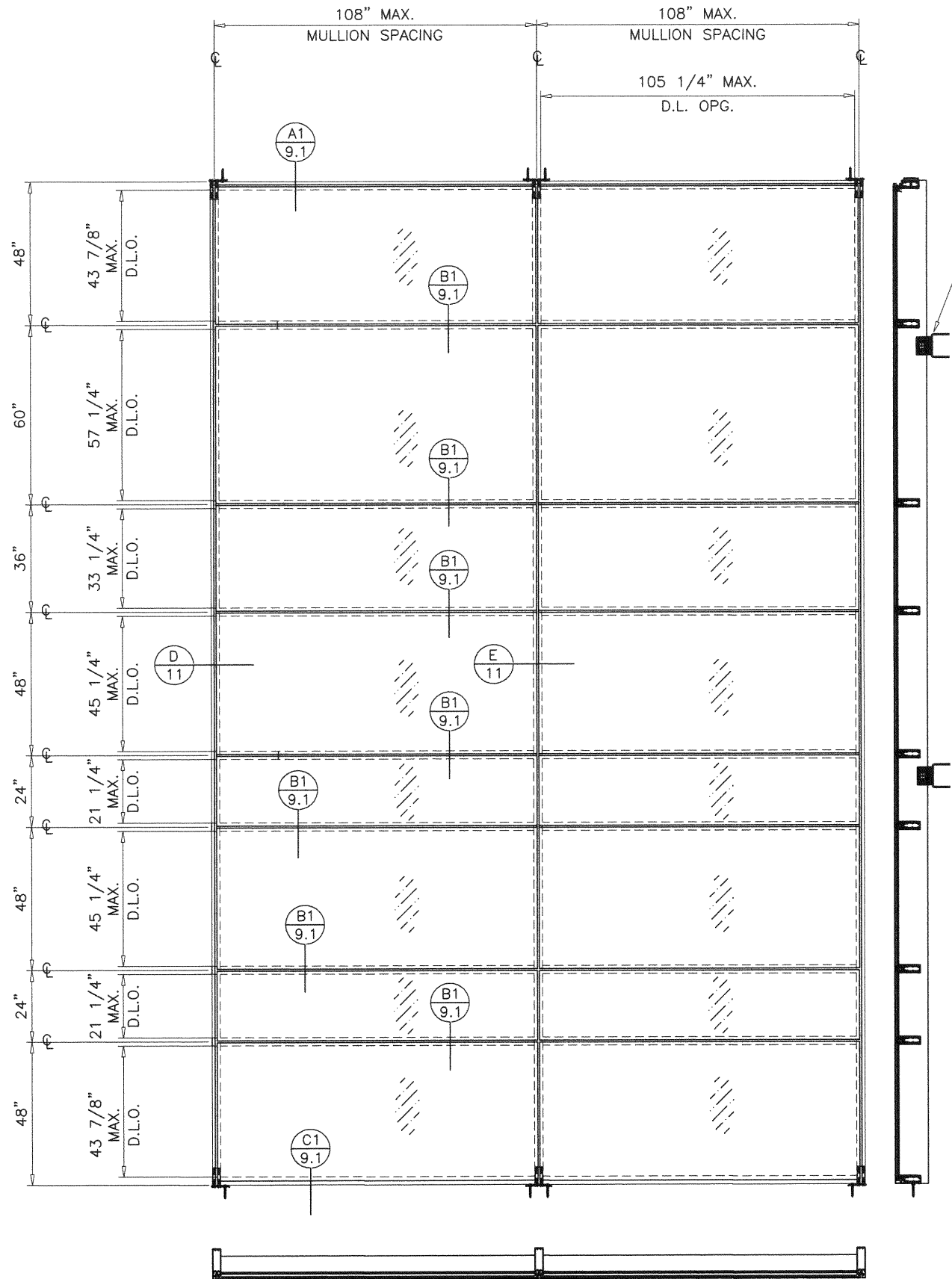
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dr. by:	TARIO
chk. by:	

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19-18F

sheet	3 of 21
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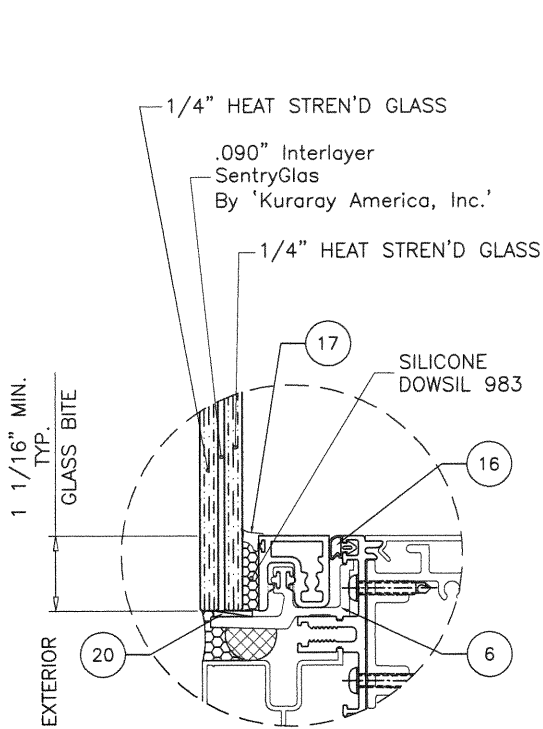
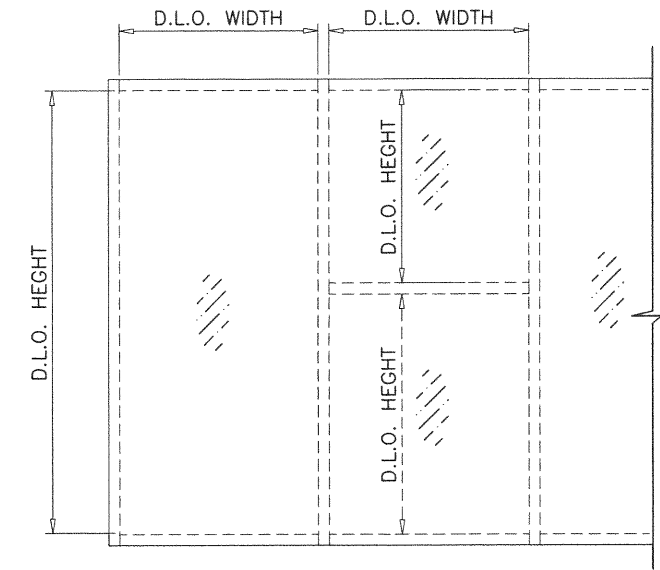
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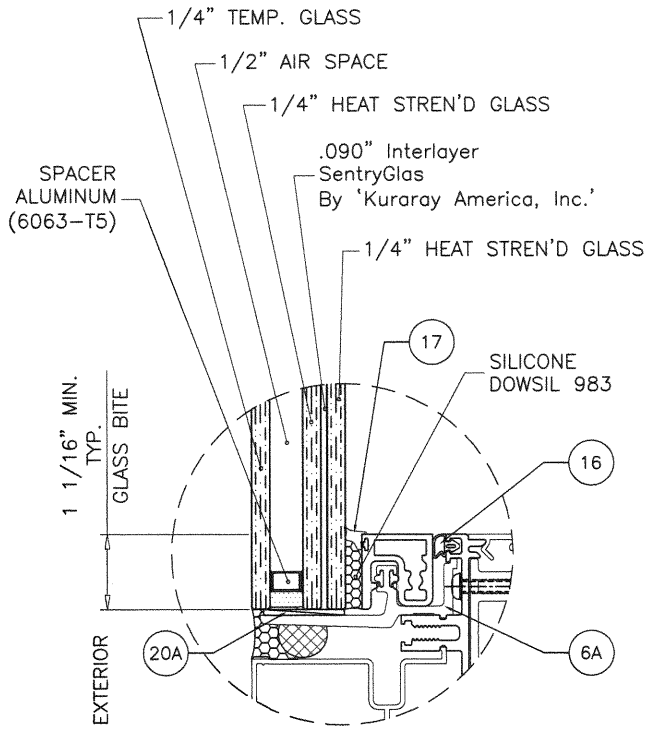
drawing no.	19-18F
sheet	3.2 of 21

GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPES 'A' & 'Ai'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)
33-1/4"	84-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	100.0
57-1/4"		90.0	100.0
63-1/4"		90.0	100.0
69-1/4"		90.0	100.0
33-1/4"	90-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	100.0
57-1/4"		90.0	90.0
63-1/4"		81.8	81.8
69-1/4"		75.0	75.0
33-1/4"	102-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	100.0
57-1/4"		90.0	90.0
63-1/4"		81.8	81.8
33-1/4"	114-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	98.3
57-1/4"		90.0	90.0
33-1/4"	120-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	97.0
57-1/4"		90.0	90.0
33-1/4"	126-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	95.8
33-1/4"	138-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

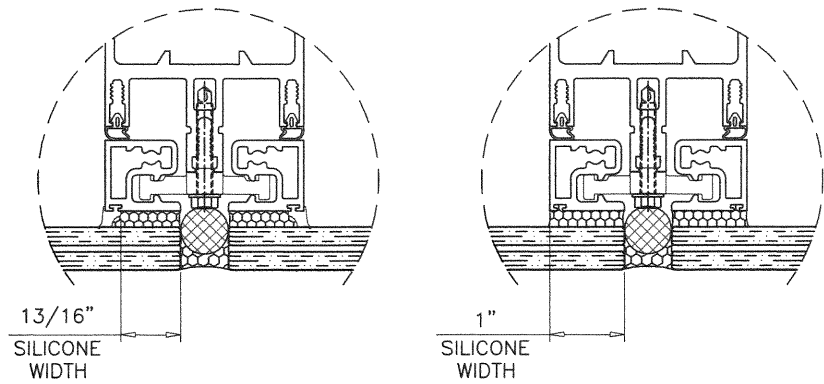


GLASS TYPE 'A'
9/16" LAM. GLASS

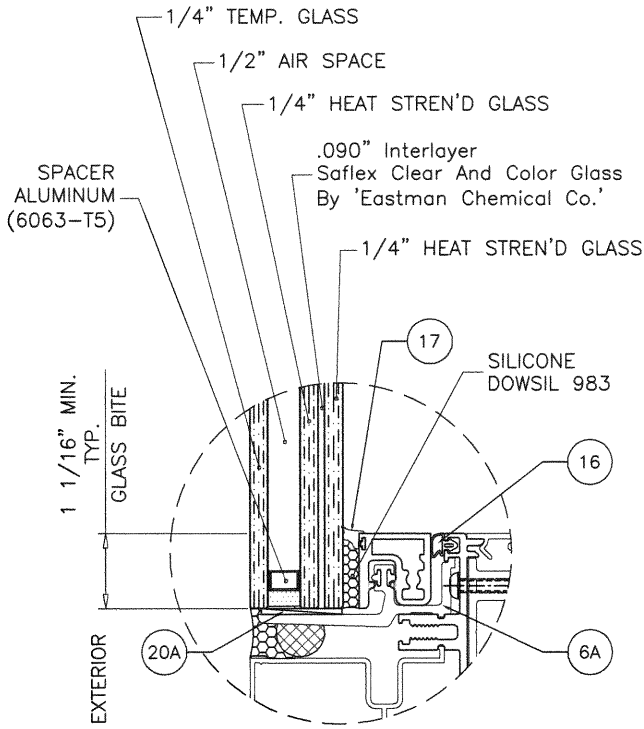


GLASS TYPE 'Ai'
1-5/16" INSUL. LAM. GLASS

GLAZING OPTIONS



SILICONE CAPACITY - PSF		
D.L.O. WIDTH	SILICONE WIDTH	
	13/16"	1"
39-1/4"	100.0	100.0
45-1/4"	99.0	100.0
51-1/4"	88.0	100.0
57-1/4"	79.2	96.0
63-1/4"	72.0	87.3
69-1/4"	66.0	80.0

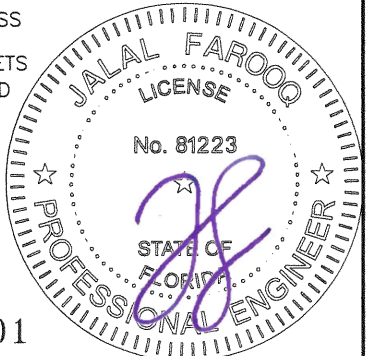


GLASS TYPE 'Bi'
1-5/16" INSUL. LAM. GLASS

(SEE ELEVATIONS ON SHEETS
3.1 & 3.2 FOR LIMITS AND
DESIGN LOAD CAPACITY)

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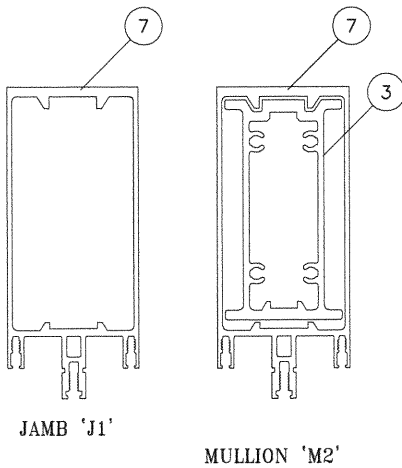
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dr. by:	TARIQ	chk. by:		
drawing no.	19-18F	sheet	4 of 21	

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-09 (3 SEC. GUSTS).

MULLION DESIGN LOAD CAPACITY - PSF SINGLE SPANS			
NOMINAL DIMS.		JAMB 'J1' MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)
36"	96"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
60"		85.0	85.0
66"		85.0	85.0
72"		85.0	85.0
36"	108"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
60"		85.0	85.0
66"		85.0	85.0
72"		85.0	85.0
36"	120"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
60"		85.0	85.0
66"		85.0	85.0
36"	132"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
60"		85.0	85.0
66"		85.0	85.0
36"	144"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
60"		85.0	85.0
66"		85.0	85.0

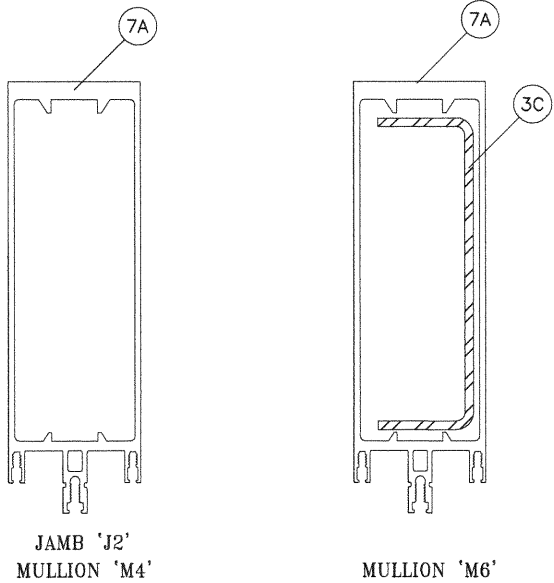
INTERPOLATION BETWEEN WIDTHS ALLOWED.



Ix IN^4	Sx IN^3	Ix IN^4	Sx IN^3
13.52	3.96	21.32	5.79

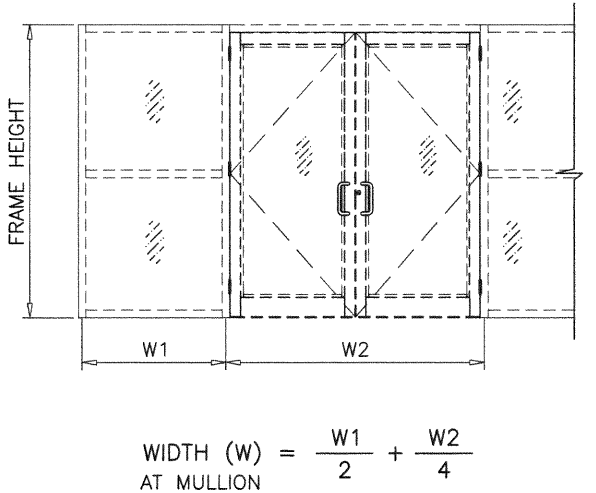
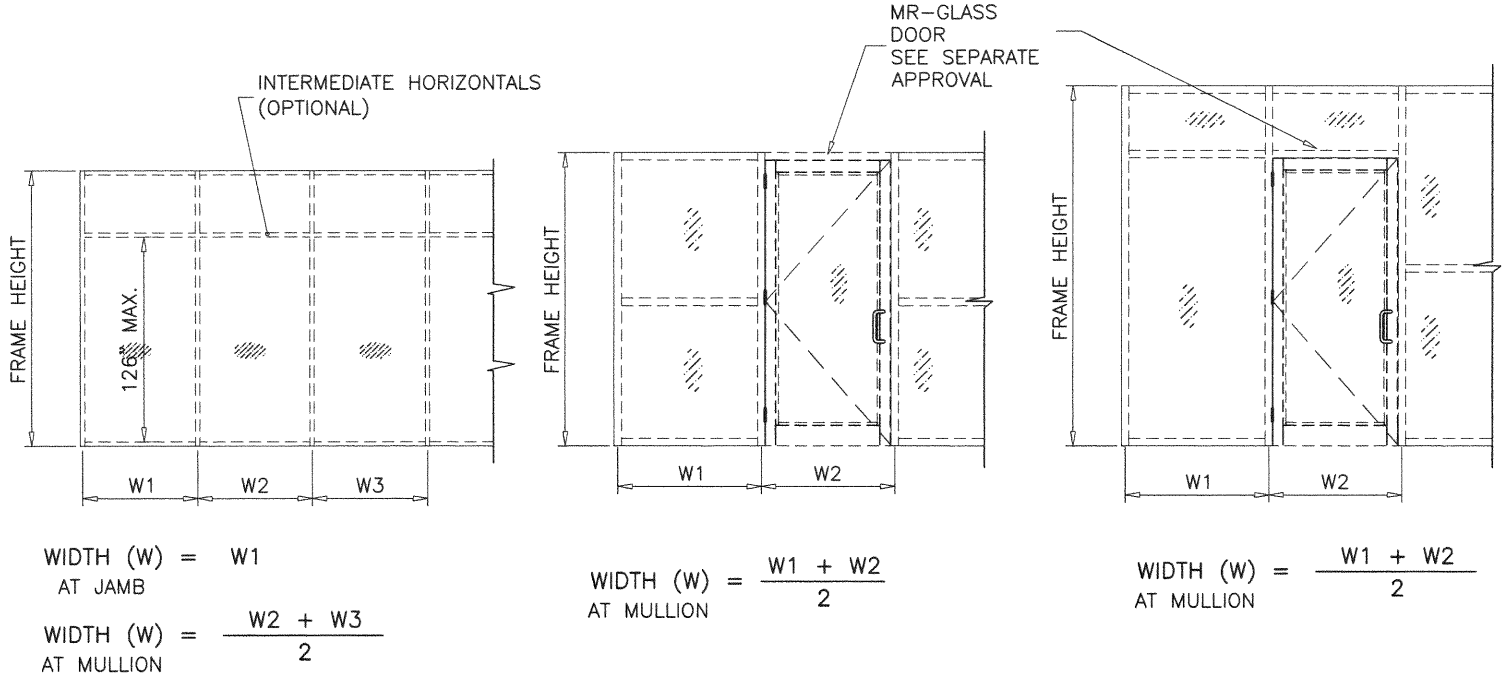
MULLION DESIGN LOAD CAPACITY - PSF SINGLE SPANS					
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'		JAMB 'J2' MULL 'M6'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	120"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0
36"	132"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0
36"	144"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0
36"	156"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0
36"	168"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0
36"	180"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0
36"	192"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0
36"	204"	75.0	75.0	80.0	90.0
42"		75.0	75.0	80.0	90.0
48"		75.0	75.0	80.0	90.0
54"		75.0	75.0	80.0	90.0
60"		75.0	75.0	80.0	90.0
66"		75.0	75.0	80.0	90.0
72"		75.0	75.0	80.0	90.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.



Ix IN^4	Sx IN^3
41.55	8.36

ALUMINUM	Ix IN^4	Sx IN^3
STEEL	41.55	8.36
TOTAL	10.18	3.13
Ix ALUM + Ix STL X 2.9	71.1	



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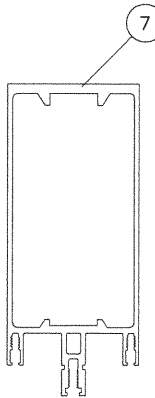
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drawing no.
19-18F
sheet 5 of 21

MULLION DESIGN LOAD CAPACITY - PSF TWO SPANS & MULTIPLE SPANS			
NOMINAL DIMS.		JAMB 'J1' MULL 'M6'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	144"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		86.0	86.0

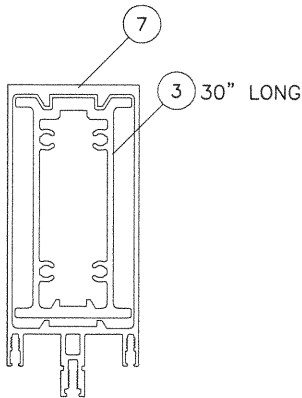
INTERPOLATION BETWEEN WIDTHS ALLOWED.

MULLION DESIGN LOAD CAPACITY - PSF TWO SPANS & MULTIPLE SPANS			
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	144"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0



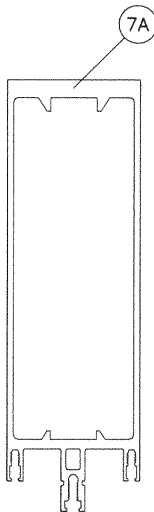
JAMB 'J1'

Ix	IN^4	Sx	IN^3
13.52		3.96	



MULLION 'M6'

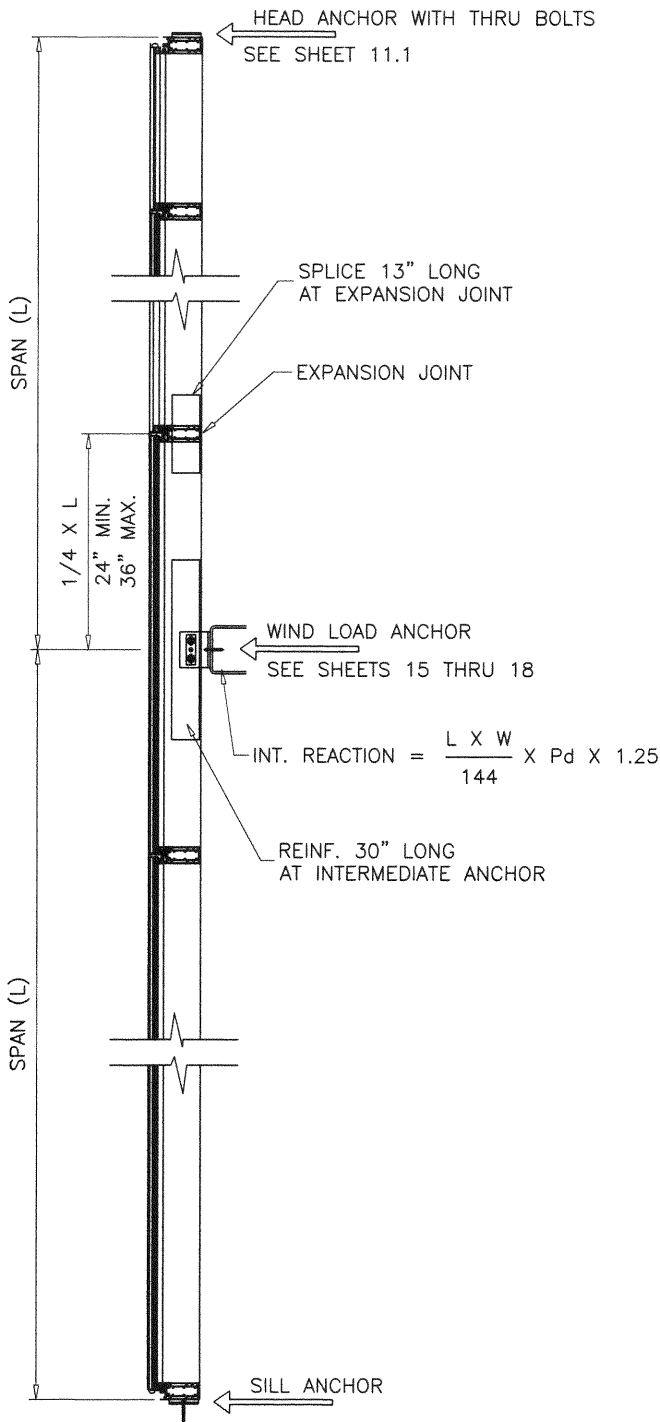
Ix	IN^4	Sx	IN^3
21.32		5.79	



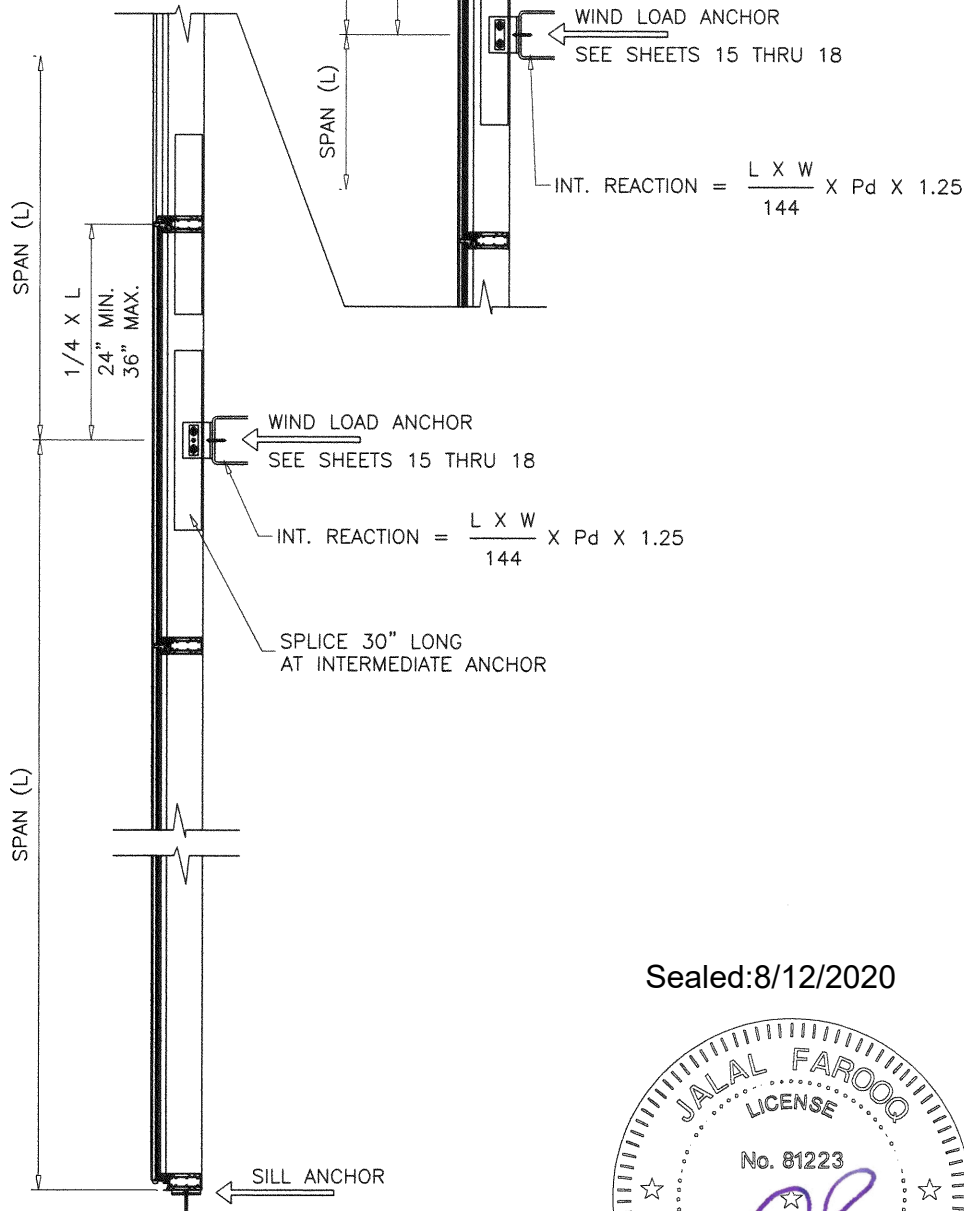
JAMB 'J2'
MULLION 'M4'

Ix	IN^4	Sx	IN^3
41.55		8.36	

NOTE:
UNEQUAL SPANS TO BE CHECKED ON JOB TO JOB BASIS.



TWO SPANS WITH EXPANSION JOINTS



MULTIPLE SPANS WITH EXPANSION JOINTS

Sealed:8/12/2020



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

SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:

no	date	by	description

date: 03-15-19 scale: - dr. by: TARIQ chk. by:

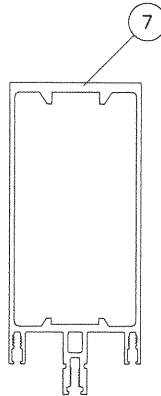
drawing no. 19-18F sheet 6 of 21

COMP-ANL\19-18F-MG

MULLION DESIGN LOAD CAPACITY - PSF TWO SPANS & MULTIPLE SPANS			
NOMINAL DIMS.		JAMB 'J1' MULL 'M6'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	144"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		86.0	86.0

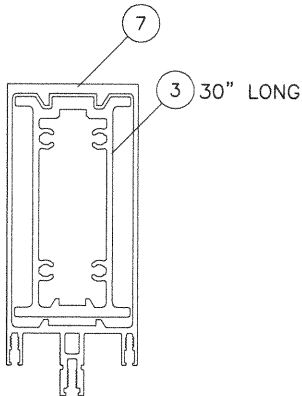
MULLION DESIGN LOAD CAPACITY - PSF TWO SPANS & MULTIPLE SPANS			
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	144"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.



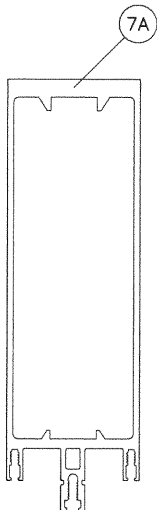
JAMB 'J1'

Ix IN^4	Sx IN^3
13.52	3.96



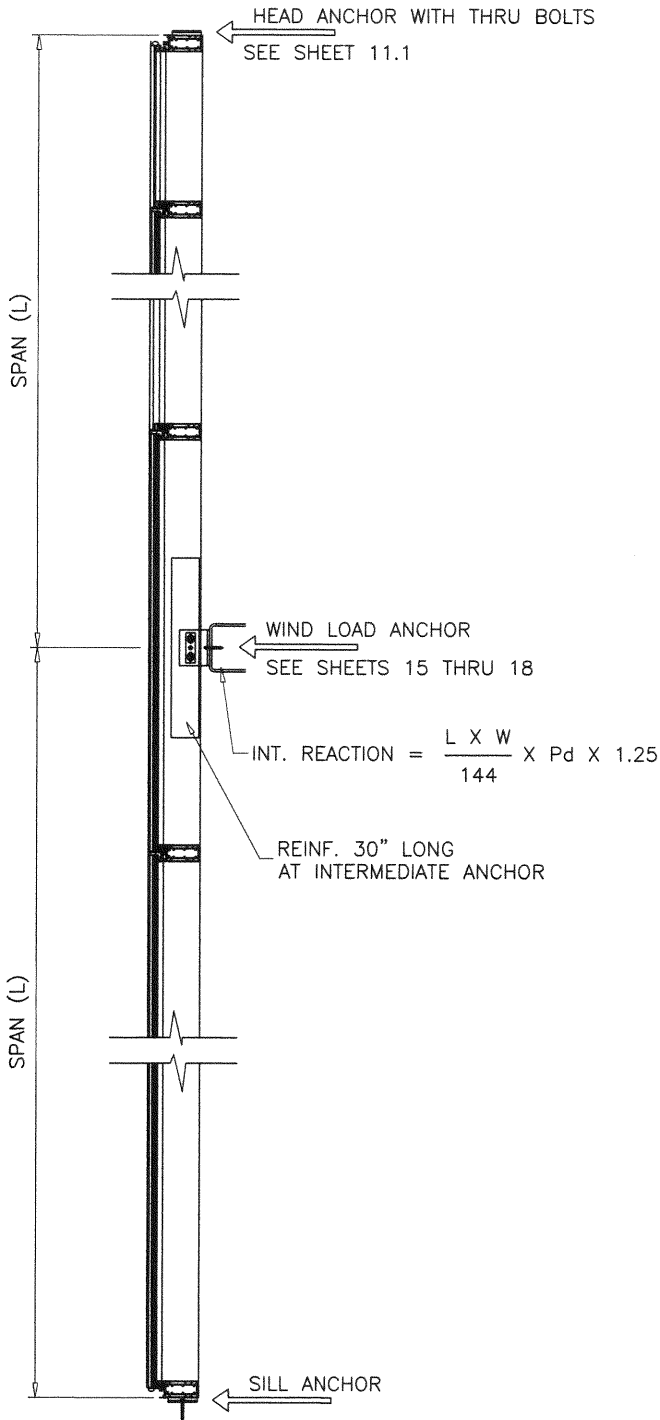
MULLION 'M6'

Ix IN^4	Sx IN^3
21.32	5.79



JAMB 'J2'
MULLION 'M4'

Ix IN^4	Sx IN^3
41.55	8.36



TWO SPANS WITHOUT EXPANSION JOINTS

NOTE:
UNEQUAL SPANS TO BE CHECKED ON JOB TO JOB BASIS.

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FL #27401



af c

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COMP - ANL \ 19 - 18F - MG

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19-18F

sheet 6.1 of 21

HEAD/SILL ANCHOR DESIGN LOAD CAPACITY - PSF EXT.(+) & INT.(-)									
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'				ANCHOR TYPE 'C'
		'F' CLIP INTO CONC.	'T' CLIP INTO CONC.		'JAMB PLATE' INTO CONC.		'MULLION PLATE' INTO CONC.		'F' CLIP, 'T' CLIP 'JAMB, MULLION PLATE'
WIDTH (W)	FRAME HEIGHT	4000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	
36"	126"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
72"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	132"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	144"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	92.0	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	-	100.0	100.0	100.0	100.0	100.0	100.0
36"	156"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	94.4	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	84.9	100.0	100.0	100.0	100.0	100.0	100.0
66"		100.0	-	100.0	100.0	100.0	100.0	100.0	100.0
36"	168"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	98.6	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	87.6	100.0	100.0	100.0	100.0	100.0	100.0
60"		100.0	78.9	96.0	100.0	100.0	94.3	100.0	100.0
66"		100.0	-	-	100.0	100.0	-	100.0	100.0
36"	180"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	92.0	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	81.8	99.6	100.0	100.0	97.8	100.0	100.0
60"		100.0	69.0	84.0	90.0	100.0	82.5	100.0	100.0
36"	192"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	98.6	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	86.3	100.0	100.0	100.0	100.0	100.0	100.0
54"		100.0	76.7	93.3	100.0	100.0	91.7	100.0	100.0
36"	204"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"		100.0	92.8	100.0	100.0	100.0	100.0	100.0	100.0
48"		100.0	81.2	98.8	100.0	100.0	97.1	100.0	100.0
54"		100.0	72.2	87.8	94.1	100.0	86.3	100.0	100.0

METAL STRUCTURE NOT BY 'MR-GLASS'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE SHEETS 13 & 14 FOR DETAILS

TYPE 'A'- 1/2" DIA. KWIK HUS-EZ ANCHOR BY 'HILTI'
INTO 4000 OR 6000 PSI MIN. CONCRETE (SEE CHART)
4-1/4" MIN. EMBED
7" MIN. CENTERLINE-TO-CENTERLINE SPACING
4-1/2" MIN. EDGE DISTANCE

TYPE 'B'- 1/2" DIA. KWIK HUS-EZ ANCHOR BY 'HILTI'
INTO 4000 OR 6000 PSI MIN. CONCRETE (SEE CHART)
4-1/4" MIN. EMBED
5-3/4" MIN. CENTERLINE-TO-CENTERLINE SPACING
5-1/2" MIN. EDGE DISTANCE

TYPE 'C'- 1/2" DIA. MACHINE SCREWS (GRADE 5 CRS)
INTO STEEL STRUCTURES
1/8" THK. MIN. (Fy = 36 KSI MIN.)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

NOTE:
ANCHOR TORQUED AND OTHERWISE INSTALLED AS
PER MANUFACTURER SPECIFICATIONS.



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FL #27401

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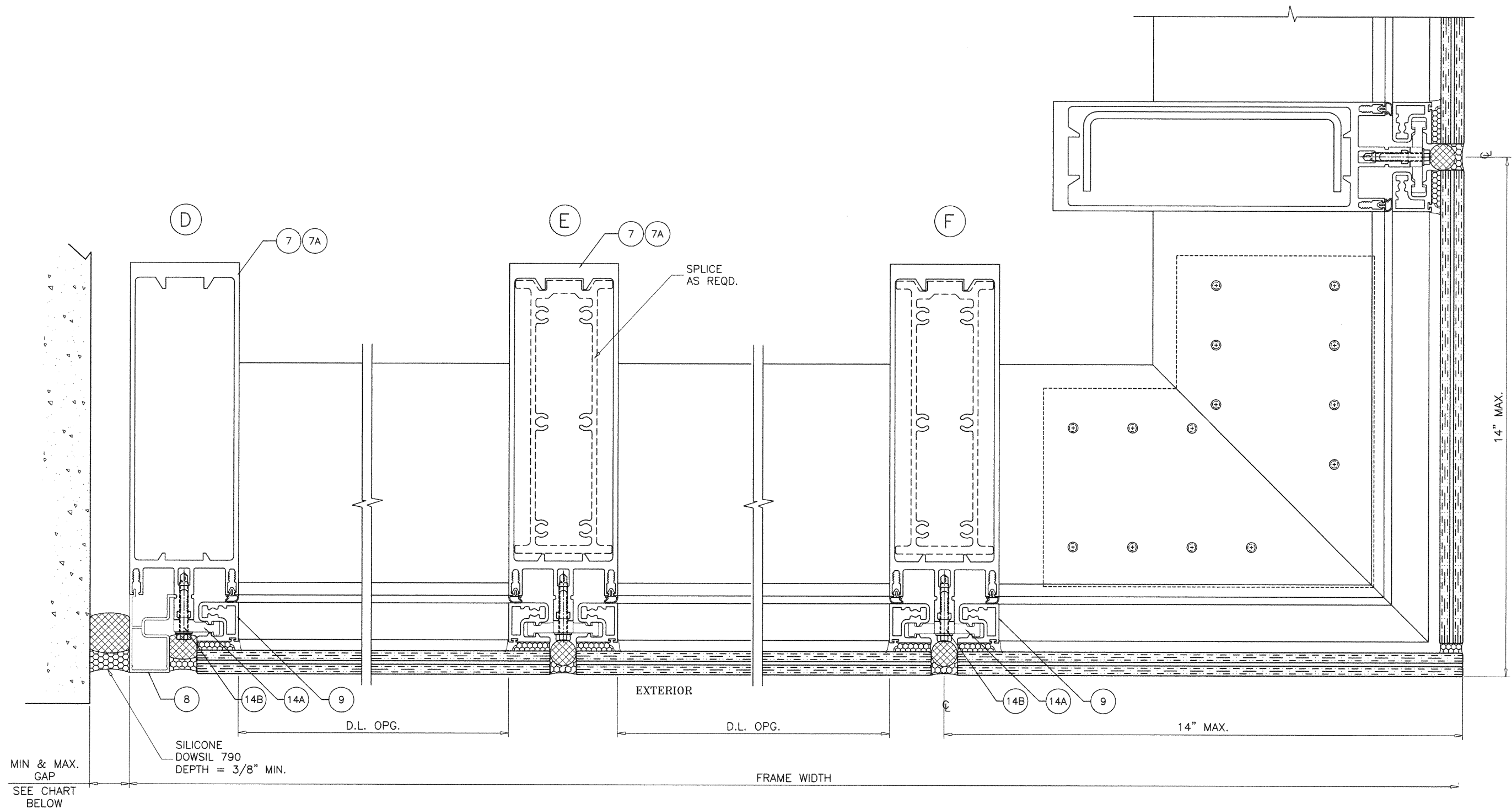
AL-FAROOQ CORPORATION
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drawing no.
19-18F
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MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
180"	1/2"	3/4"
204"	5/8"	3/4"

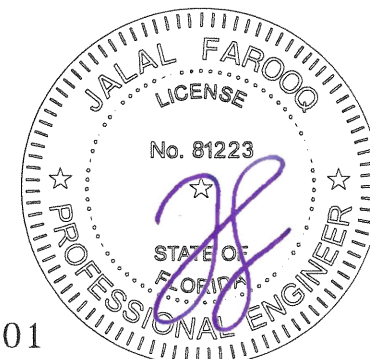
NOTE:
 MAX. MOVEMENT CONSIDERED=100% STRETCH.
 PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & WINDOWALL MATERIAL/FINISH AND COMPLIANCE FOR WARRANTY.
 REFER TO ACI-117-10 FOR CONSTRUCTION TOLERANCES.

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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FL #27401



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 (C.A.N. 3538)
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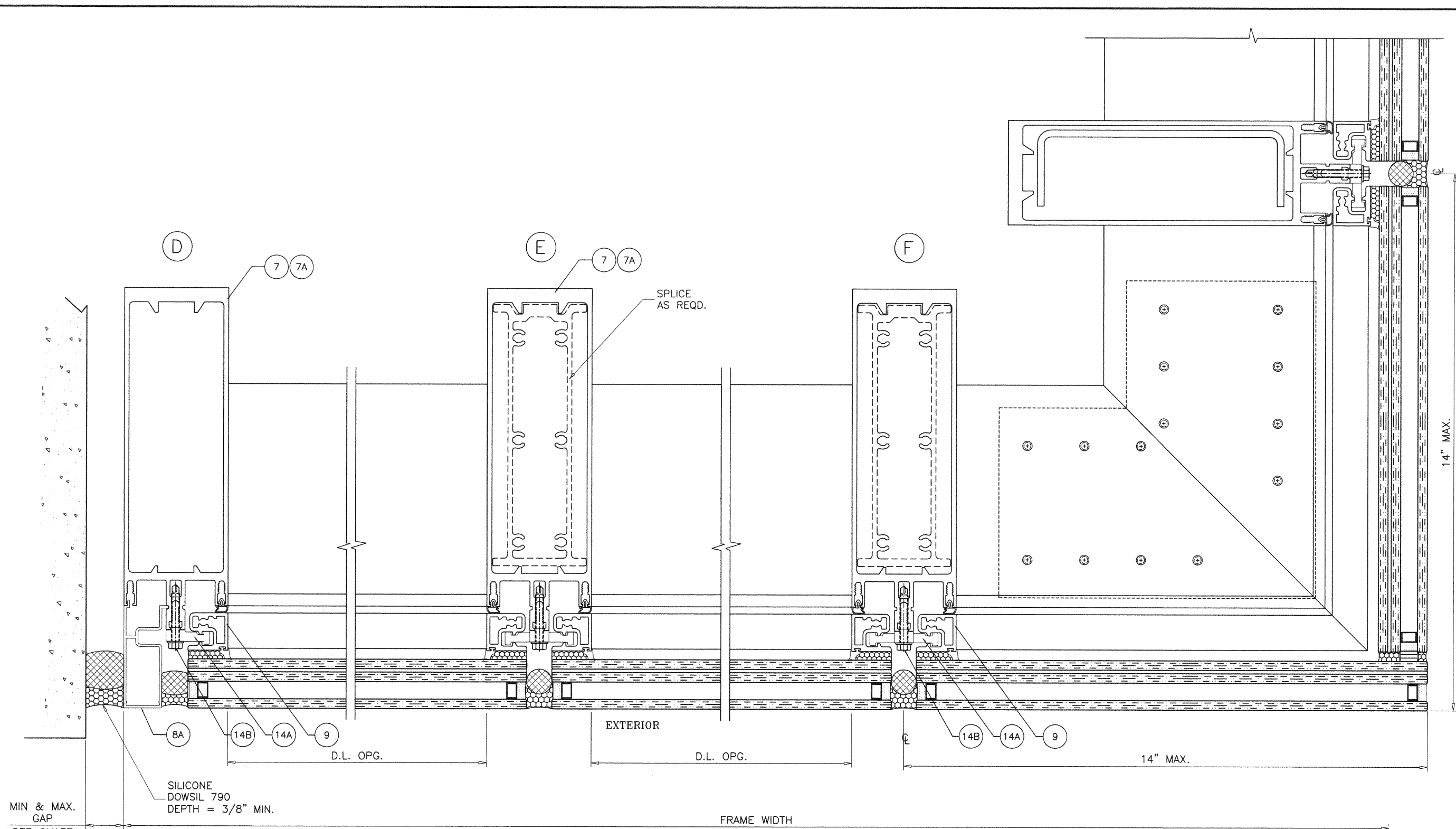
14" MAX.
 14" MAX.

revisions:
 no. date by description

date: 03-15-19
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

drawing no.
 19-18F

sheet 10 of 21



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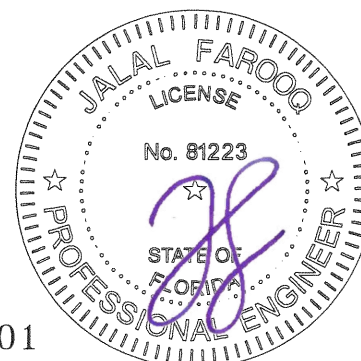
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drawing no.
19-18F
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Sealed:8/12/2020

FL #27401

G

120" MAX.
DOOR HEIGHT

EXTERIOR

'MR-GLASS' APPROVED
LARGE MISSILE IMPACT RESISTANT DOOR
SEE SEPARATE APPROVAL FOR
DOOR RATING AND DETAILS

1/4"
MAX.
SHIM

H

1/4"
MAX.
SHIM

'MR GLASS' APPROVED
LARGE MISSILE IMPACT RESISTANT DOOR
SEE SEPARATE APPROVAL FOR
DOOR RATING AND DETAILS

EXTERIOR

FRAME WIDTH

LEAF WIDTH

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FL #27401



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dr. by: TARIQ

chk. by:

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19-18F

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AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

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8051 N.W. 79th Place

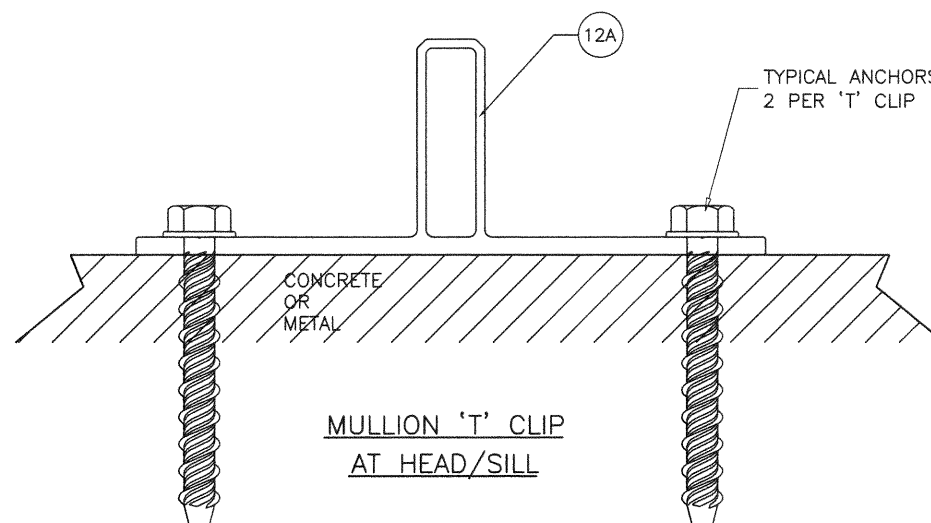
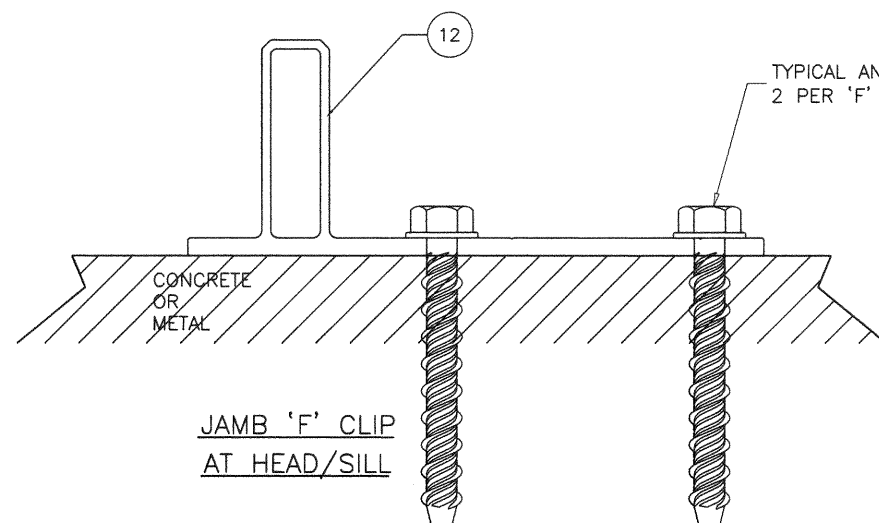
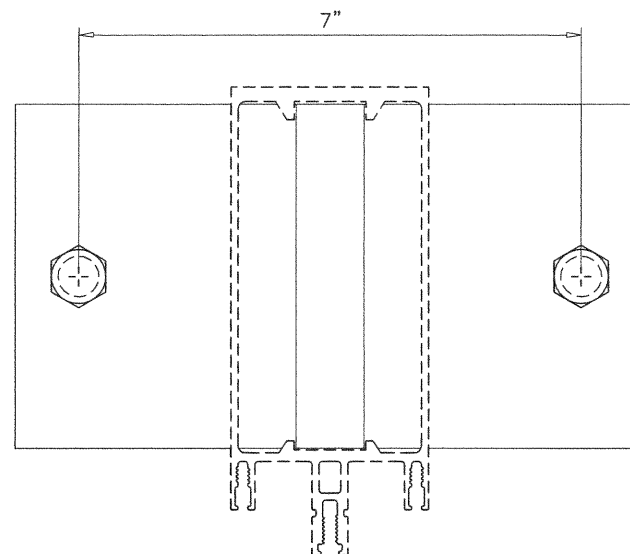
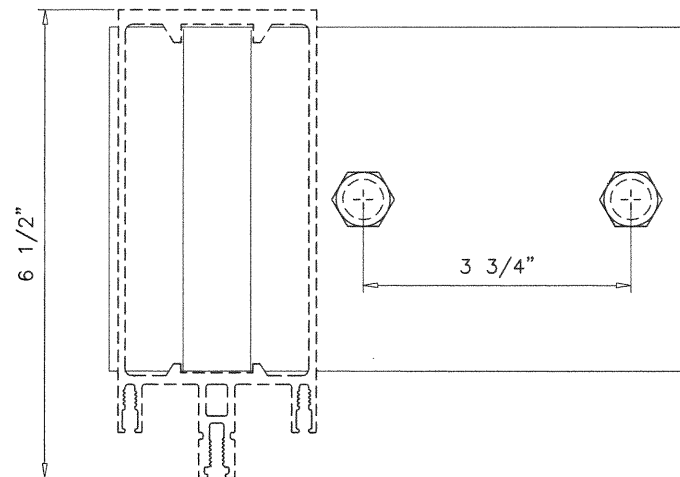
Medley, FL. 33166

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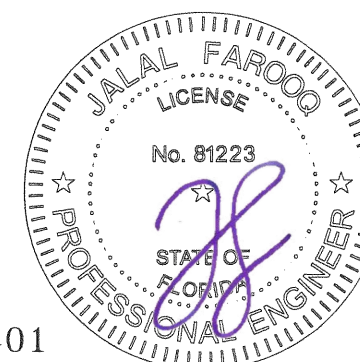
Fax. (305) 470-8285

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ANCHORS TYPE 'A'



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FL #27401

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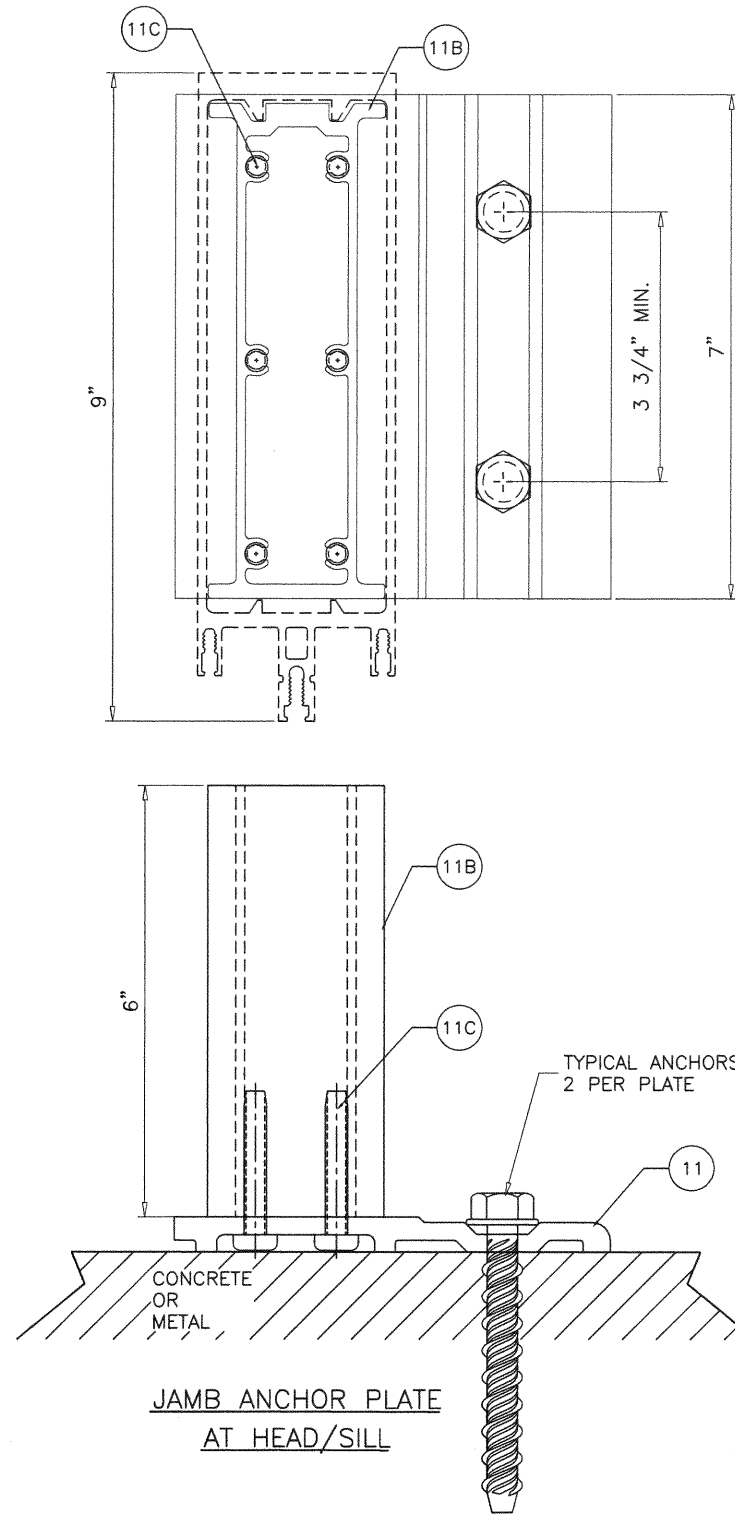
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)
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revisions:		by description	
no	date	no	date

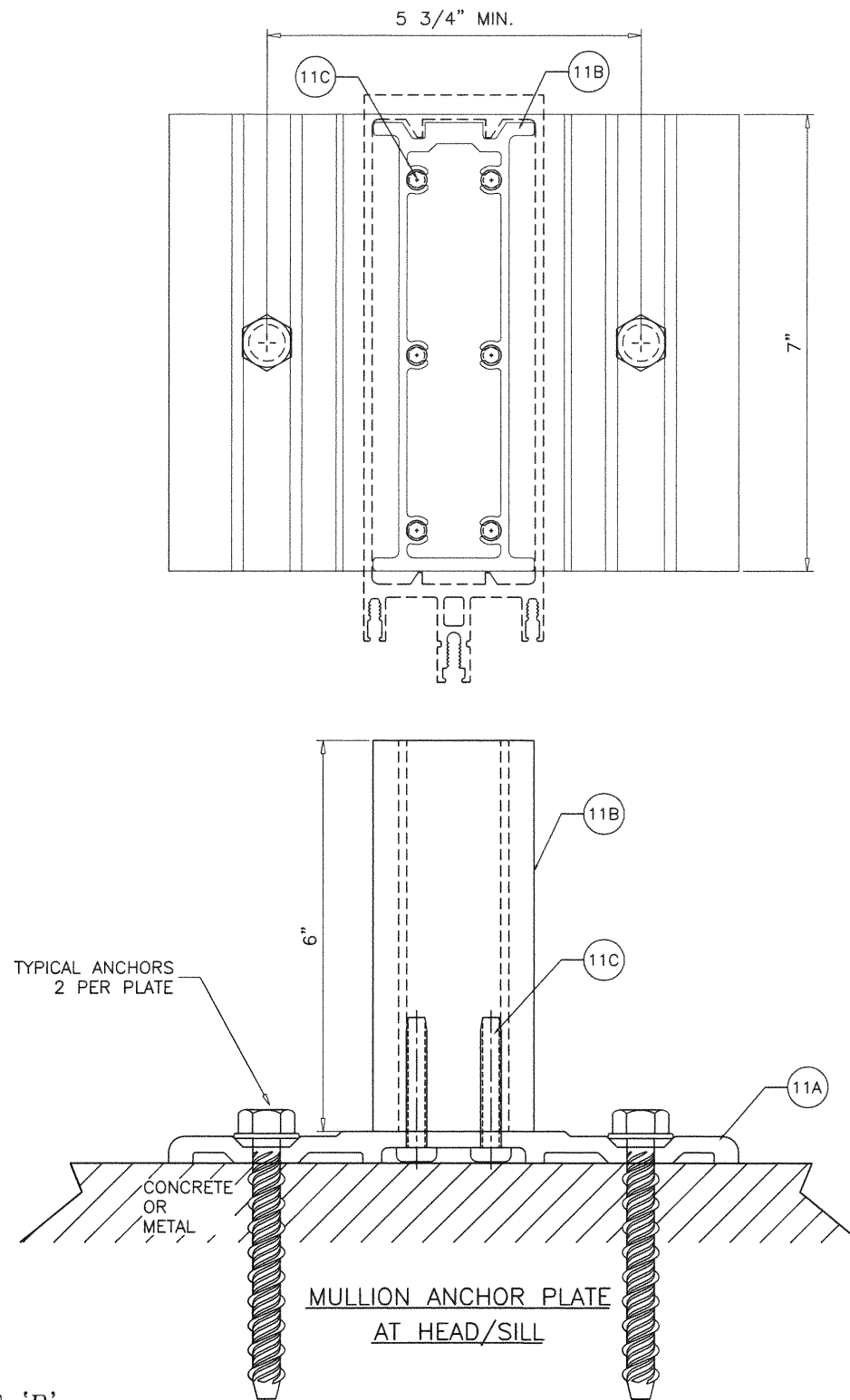
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 dr. by: TARIQ
 chk. by:

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19-18F
 sheet 13 of 21

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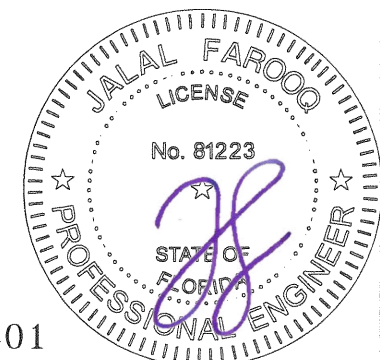


ANCHORS TYPE 'B'



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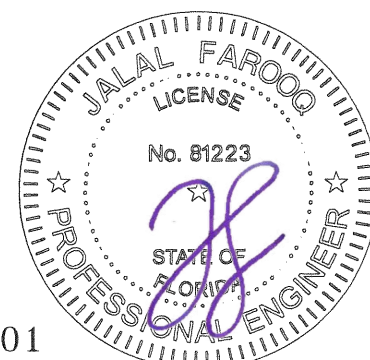
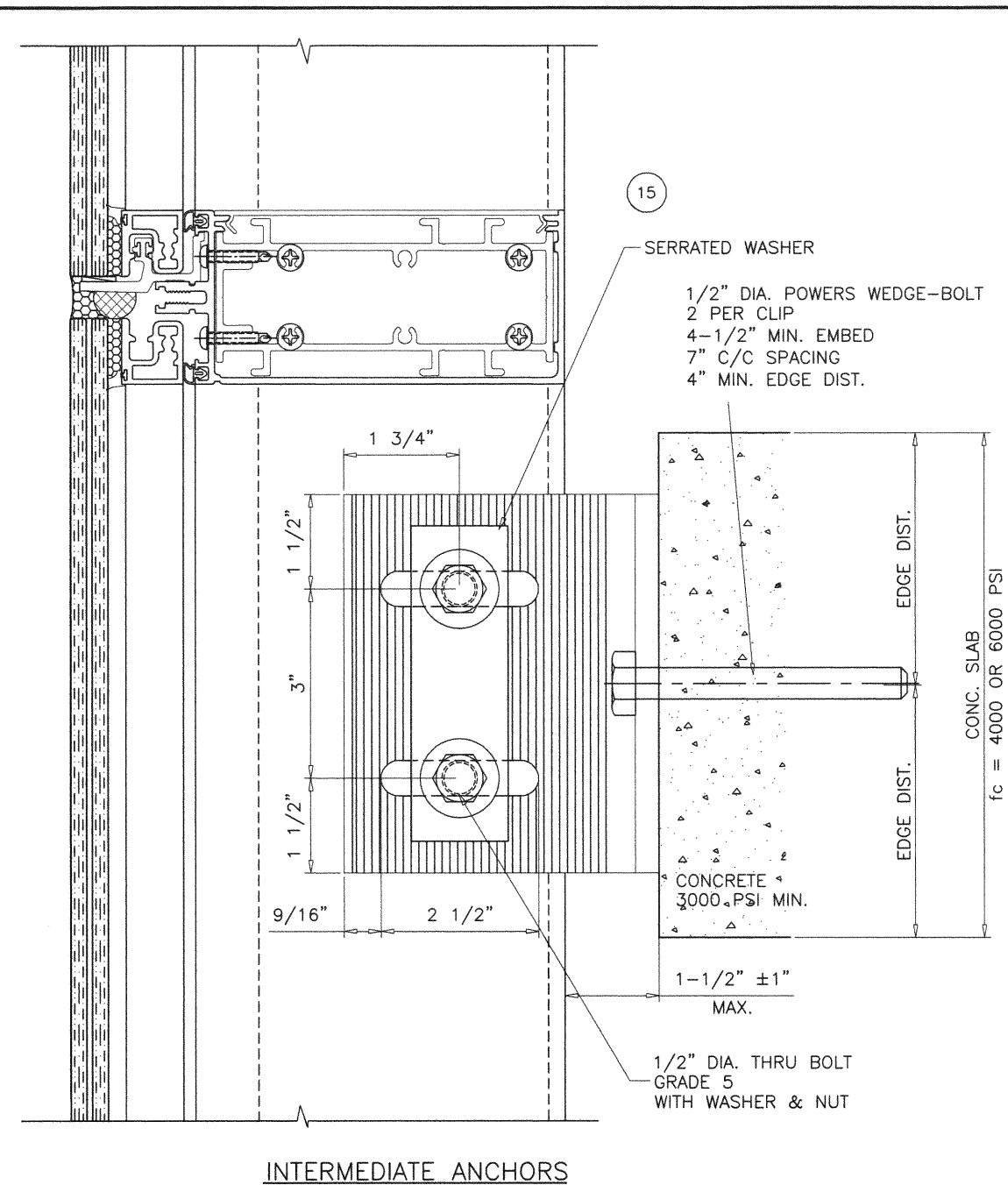
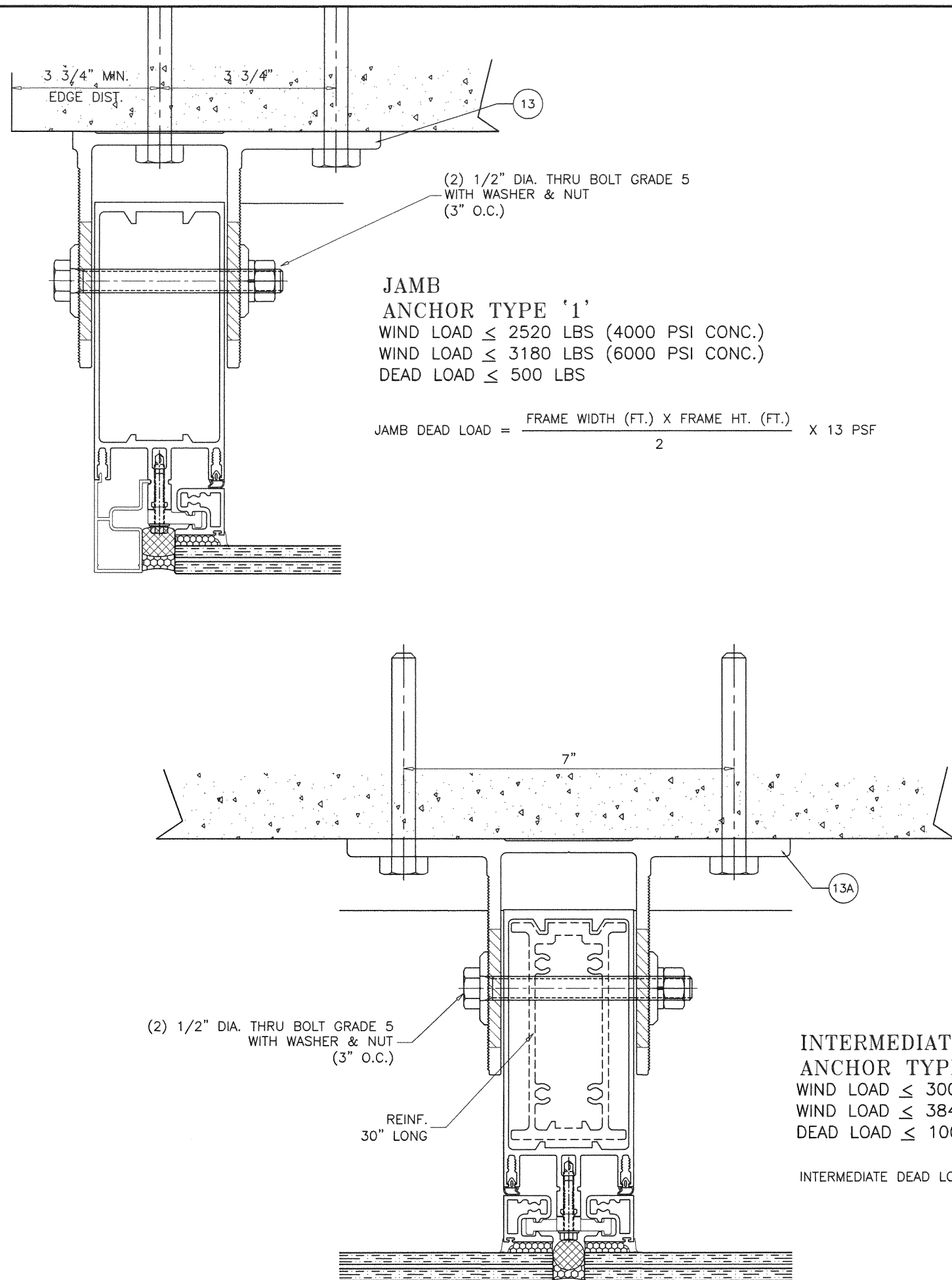
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chk. by:				
drawing no.	19-18F			
sheet	14 of 21			



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DEAD LOAD ANCHOR

FL #27401



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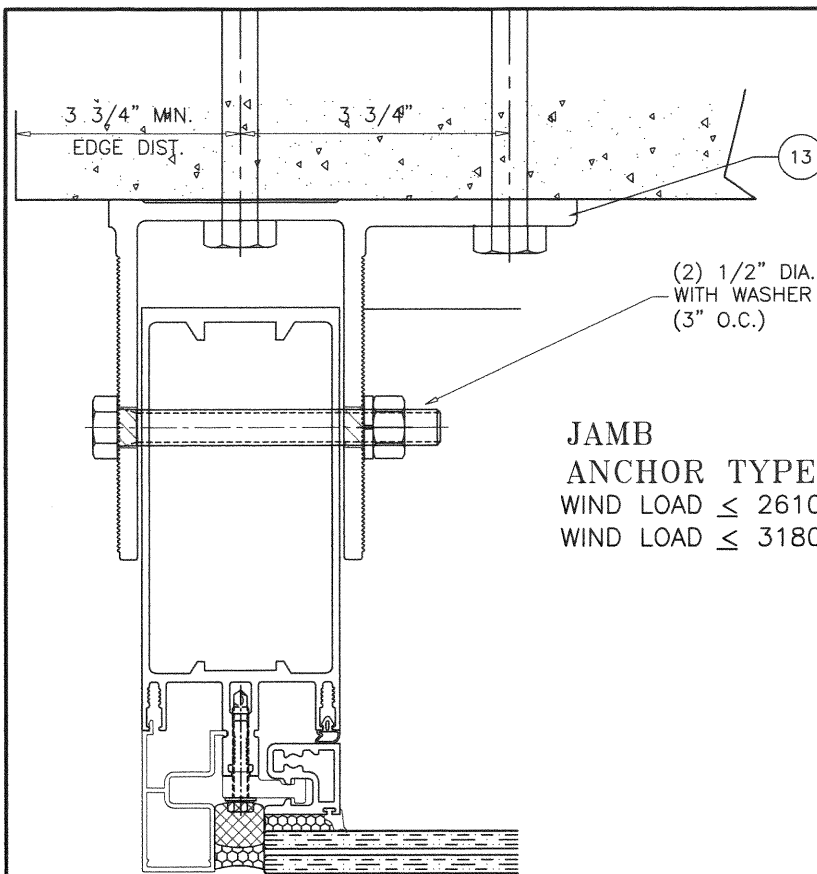
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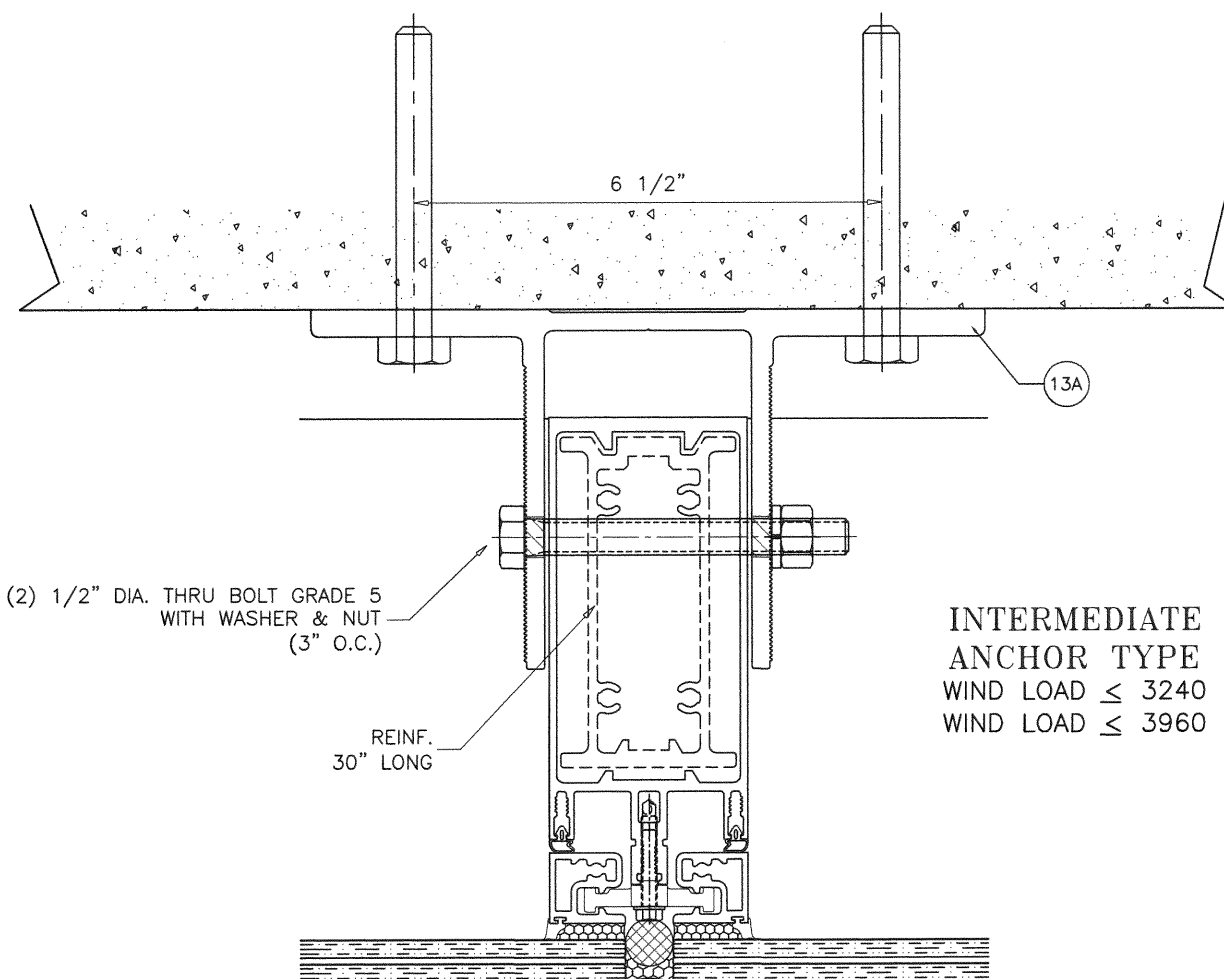
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19-18F

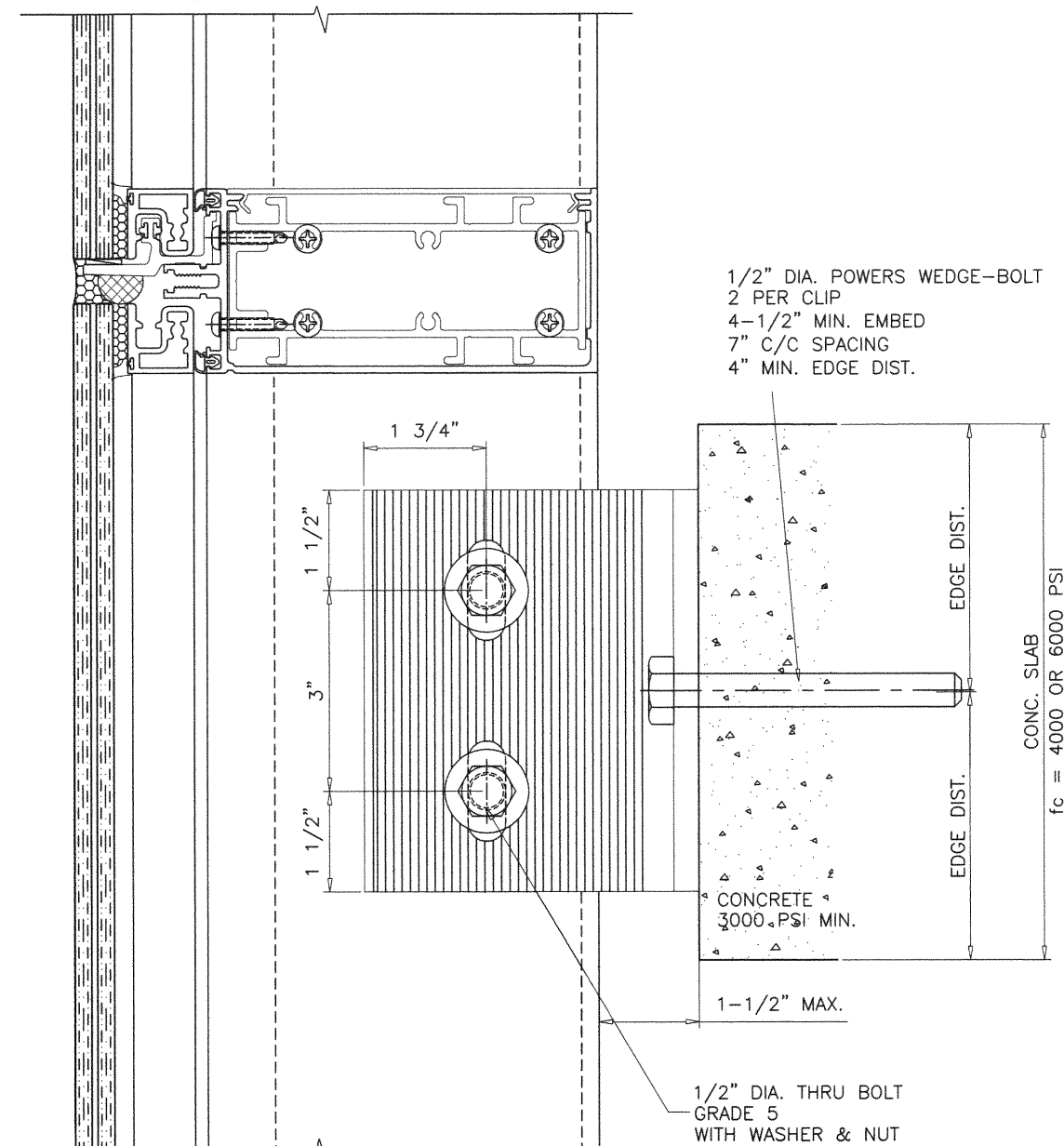
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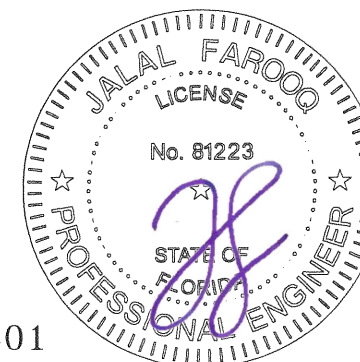
**JAMB
ANCHOR TYPE '1'**
WIND LOAD $\leq$ 2610 LBS (4000 PSI CONC.)
WIND LOAD $\leq$ 3180 LBS (6000 PSI CONC.)



**INTERMEDIATE
ANCHOR TYPE '1'**
WIND LOAD $\leq$ 3240 LBS (4000 PSI CONC.)
WIND LOAD $\leq$ 3960 LBS (6000 PSI CONC.)



INTERMEDIATE ANCHORS



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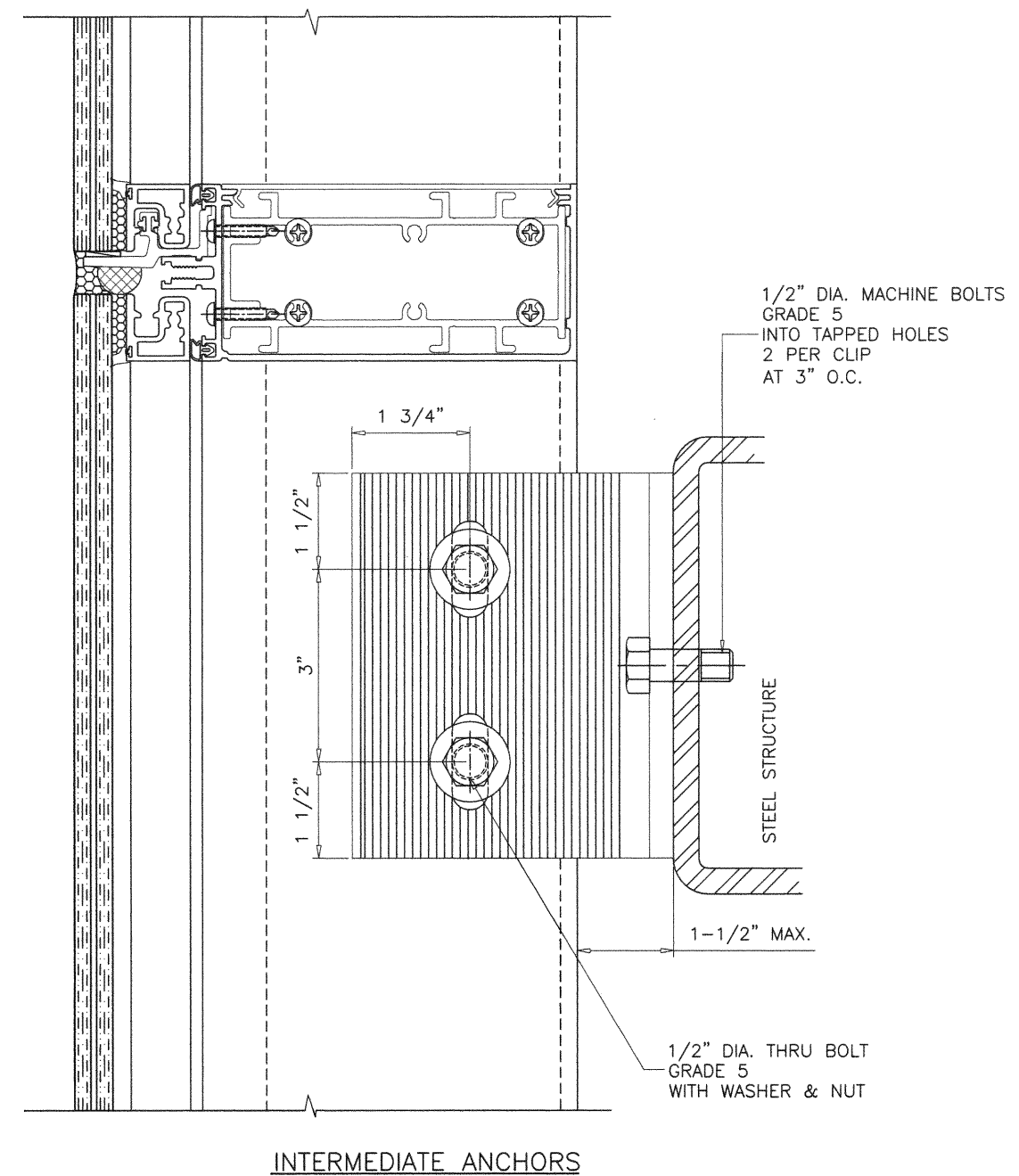
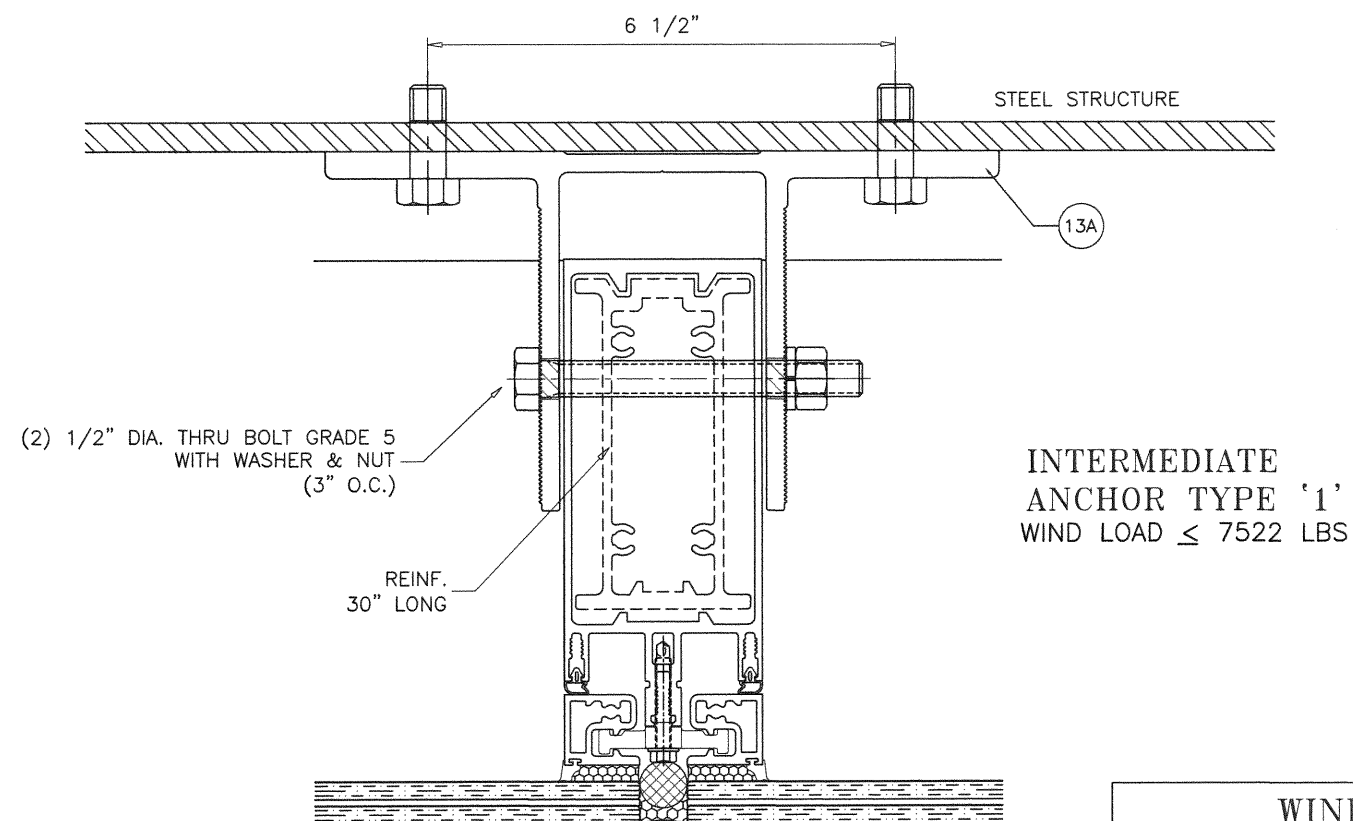
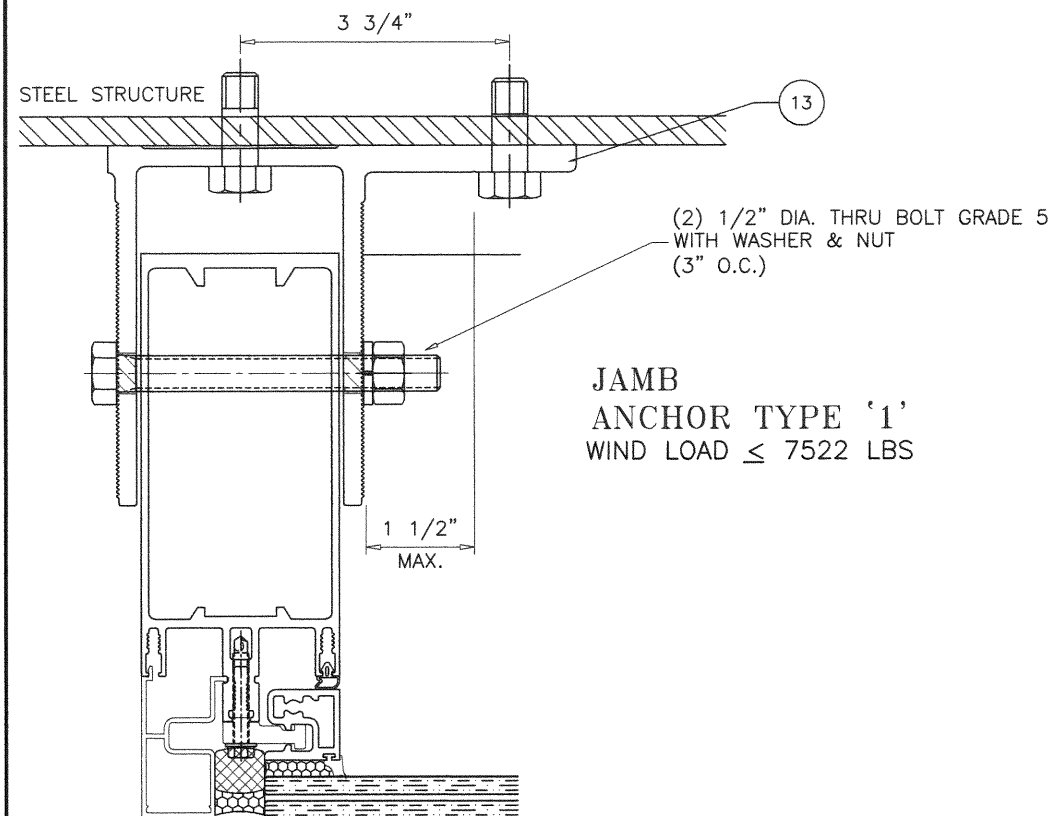
WIND LOAD ANCHOR

FL #27401

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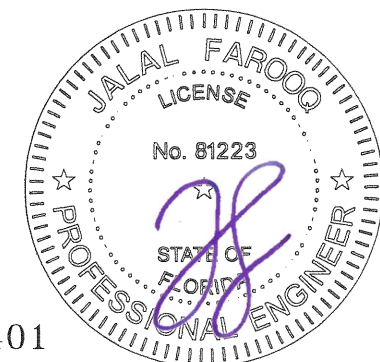
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WIND LOAD ANCHOR
INTO 1/4" THK. MIN. COMMERCIAL STEEL

Sealed:8/12/2020

FL #27401



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

SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

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ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E-2007	AS REQD.	FRAME HEAD/SILL/HORIZONTAL	6063-T6	-
2	E-2010	AS REQD.	SHEAR BLOCK, 7/8" LONG, SPLICE	6063-T6	-
2A	#12 1-1/4"	4/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	PH SELF DRILLING
2B	#10 X 3/4"	2/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	PH SELF DRILLING
3	E-2022	AS REQD.	JAMB/MULLION REINFORCEMENT (LENGTH = 30")	6063-T6	-
3A	E-2021	AS REQD.	JAMB/REINFORCEMENT (LENGTH = 30")	6063-T6	-
3C	-	AS REQD.	REINF. CHANNEL (LENGTH = 30")	STEEL	A36, Fu MIN. 58 KSI
3.1	E-2022	AS REQD.	HORIZONTAL REINFORCEMENT (FULL LENGTH)	6063-T6	-
4	E-2022	AS REQD.	SPLICE (LENGTH = 13")	6063-T6	-
4A	E-2021	AS REQD.	SPLICE (LENGTH = 13")	6063-T6	-
5	E-2046	AS REQD.	FRAME COVER	6063-T5	-
6	A20-02	2/ LITE	SITTING SHELF, 6" LONG (LAM. GLASS)	6063-T6	-
6A	A20-03	2/ LITE	SITTING SHELF, 6" LONG (INSUL. LAM. GLASS)	6063-T6	-
6B	#12 X 3/4"	2/ SHELF	SITTING SHELF FASTENERS	ST. STEEL	PH SMS
7	E-2002	AS REQD.	6-1/2" FRAME JAMB/MULLION/HORIZONTAL	6063-T6	-
7A	E-2001	AS REQD.	9" FRAME JAMB/MULLION	6063-T6	-
8	E-2047	AS REQD.	POCKET FILLER (LAM. GLASS)	6063-T5	-
8A	E-2048	AS REQD.	POCKET FILLER (INSUL. LAM. GLASS)	6063-T5	-
9	E-2031	AS REQD.	SUB FRAME	6063-T6	-
10	E-2037	AS REQD.	SUB FRAME CORNER KEY	6063-T6	-
10A	#12 X 2-1/2"	1/ CORNER	SUB FRAME ASSEMBLY FASTENERS	ST. STEEL	FH SELF DRILLING
11	E-2013	AS REQD.	ANCHOR PLATE (JAMB)	6063-T6	-
11A	E-2013	AS REQD.	ANCHOR PLATE (MULLION)	6063-T6	-
11B	E-2021	AS REQD.	ANCHOR INSERT, 6" LONG	6063-T6	-
11C	5/16" X 2"	6/ PLATE	PLATE FASTENERS	ST. STEEL	PH TAPPING SCREW
12	E-2015	AS REQD.	'F' ANCHOR CLIP (JAMB)	6063-T6	-
12A	E-2014	AS REQD.	'T' ANCHOR CLIP (MULLION)	6063-T6	-
13	E-2016	AS REQD.	INTERMEDIATE ANCHOR CLIP (JAMB)	6063-T6	-
13A	E-2016	AS REQD.	INTERMEDIATE ANCHOR CLIP (MULLION)	6063-T6	-
14	E-2033	AS REQD.	RETAINER CLIP, 2" LONG	6063-T5	-
14A	E-2015	AS REQD.	RETAINER CLIP, 2" LONG, AT 18" O.C. MAX.	6063-T5	-
14B	#12 X 3"	2/ CLIP	RETAINER CLIP FASTENERS	ST. STEEL	HH SELF DRILLING
15	E-2017	AS REQD.	SERRATED WASHER	6063-T5	-
16	G-2002	AS REQD.	SUB FRAME GASKET	EPDM	DUROMETER 80±5 SHORE A
17	G-2001	AS REQD.	INTERIOR GLAZING GASKET	SANTOPRENE	DUROMETER 70±5 SHORE A
18	G-2003	AS REQD.	PRESSURE PLATE GASKET	EPDM	DUROMETER 80±5 SHORE A
19	G-2006	AS REQD.	BUMPER (AT SITTING SHELF)	EPDM	DUROMETER 80±5 SHORE A
20	-	2/ LITE	SETTING BLOCKS (9/16" X 1/8" X 4" LONG) AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
20A	-	2/ LITE	SETTING BLOCKS (9/16" X 1/8" X 4" LONG) AT 1/4 POINTS	SILICONE	DUROMETER 80±5 SHORE A
-	-	-	-	-	-

SEALANTS:

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



Sealed:8/12/2020

FL #27401

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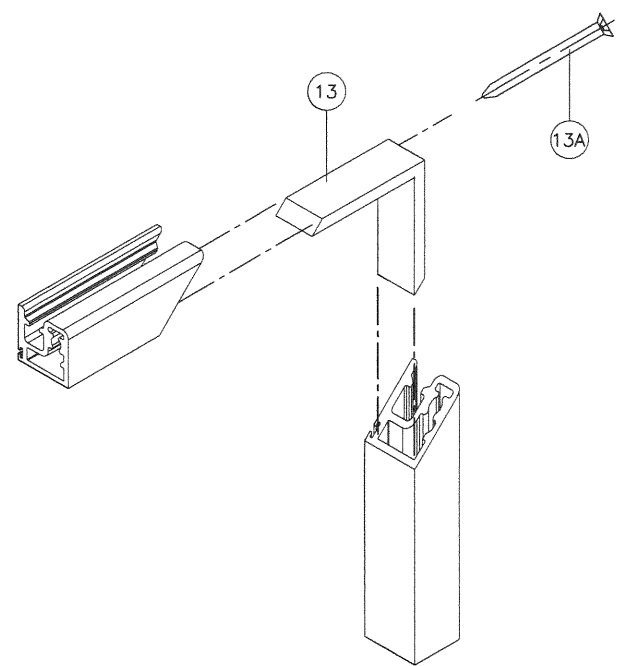
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COMP-ANL \ 19-18F-MG

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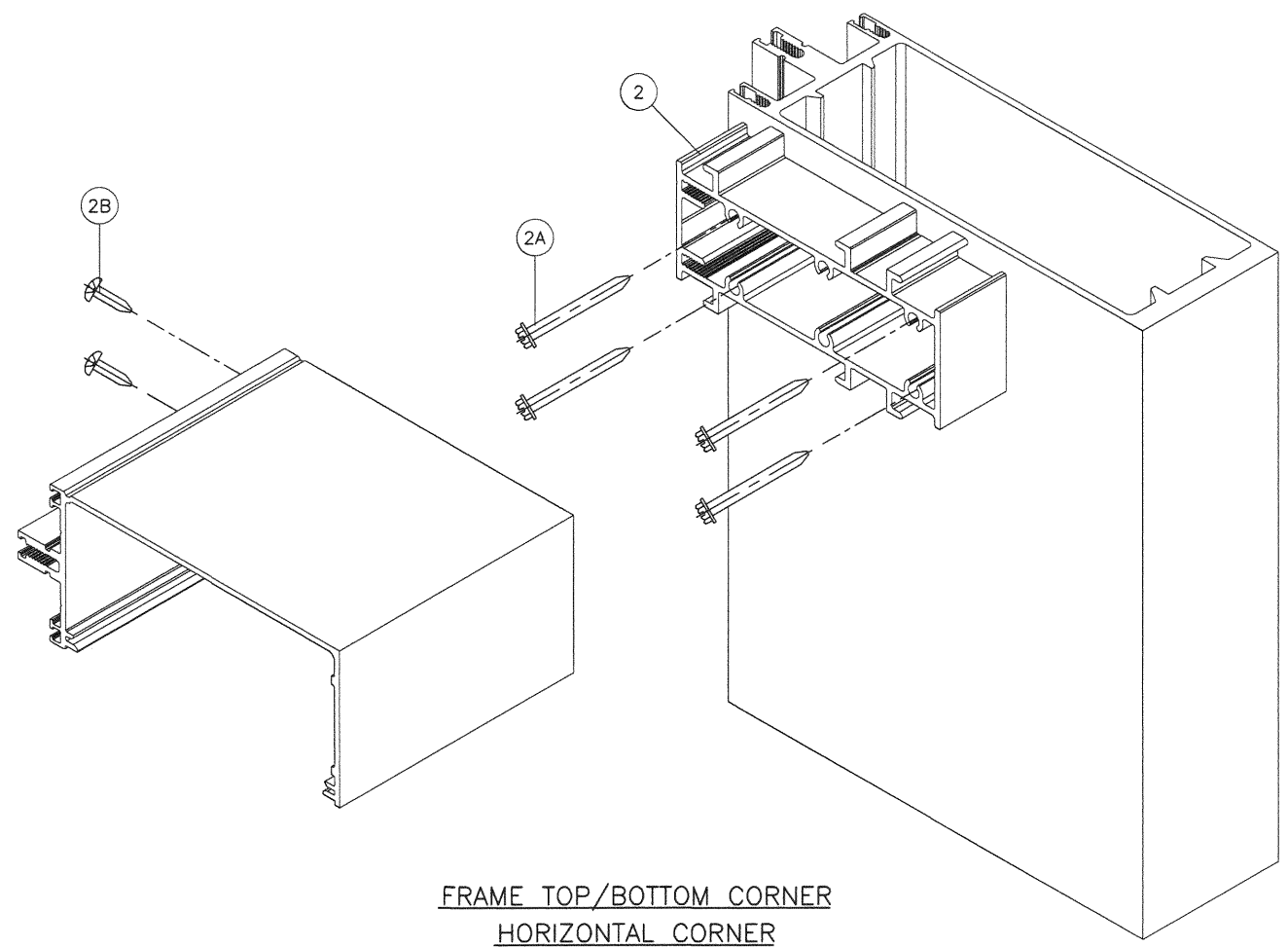
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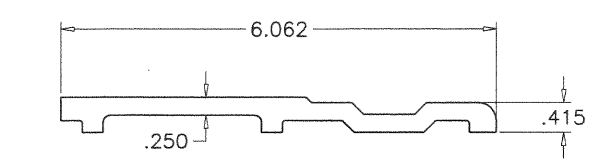
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sheet 19 of 21



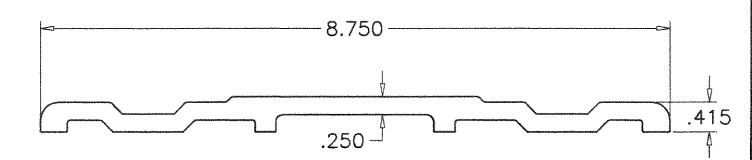
SUB FRAME CORNER



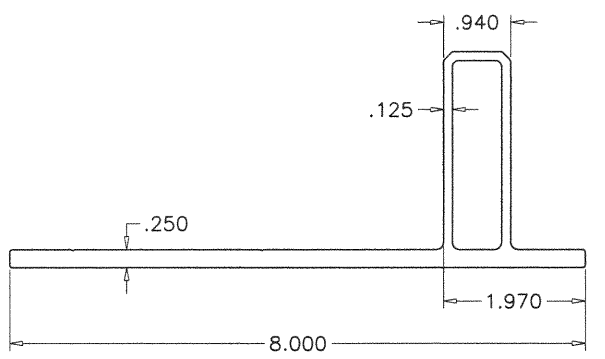
FRAME TOP/BOTTOM CORNER
HORIZONTAL CORNER



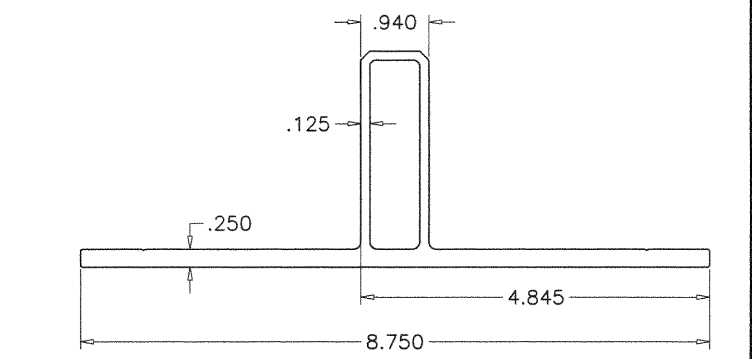
11 ANCHOR PLATE (JAMB)



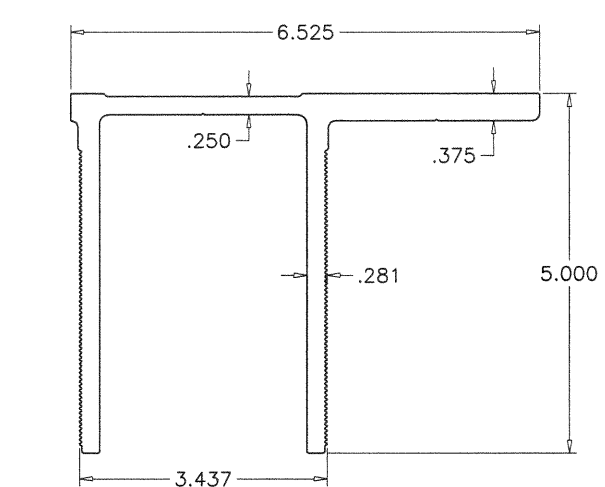
11A ANCHOR PLATE (MULLION)



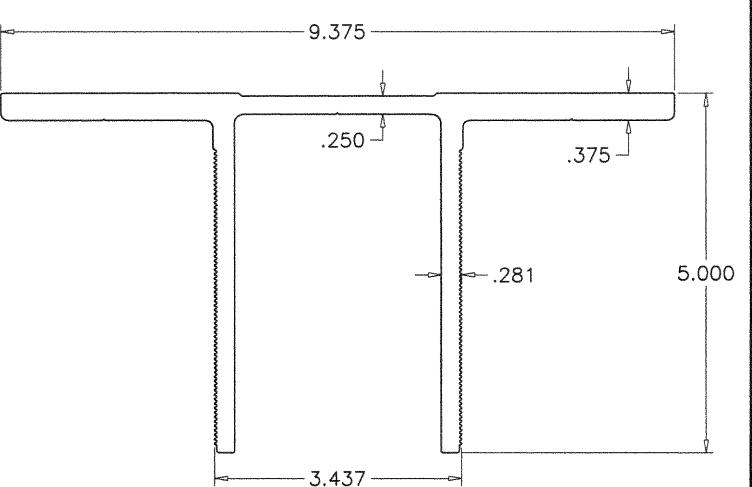
12 'F' ANCHOR CLIP (JAMB)



12A 'T' ANCHOR CLIP (MULLION)



13 INTERMEDIATE ANCHOR CLIP (JAMB)



13A INTERMEDIATE ANCHOR CLIP (MULLION)

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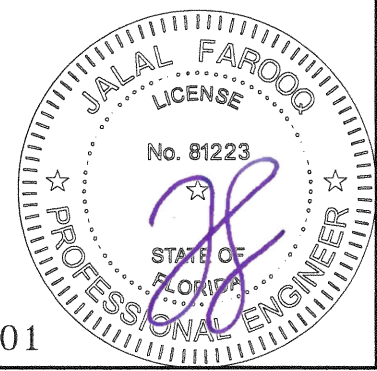
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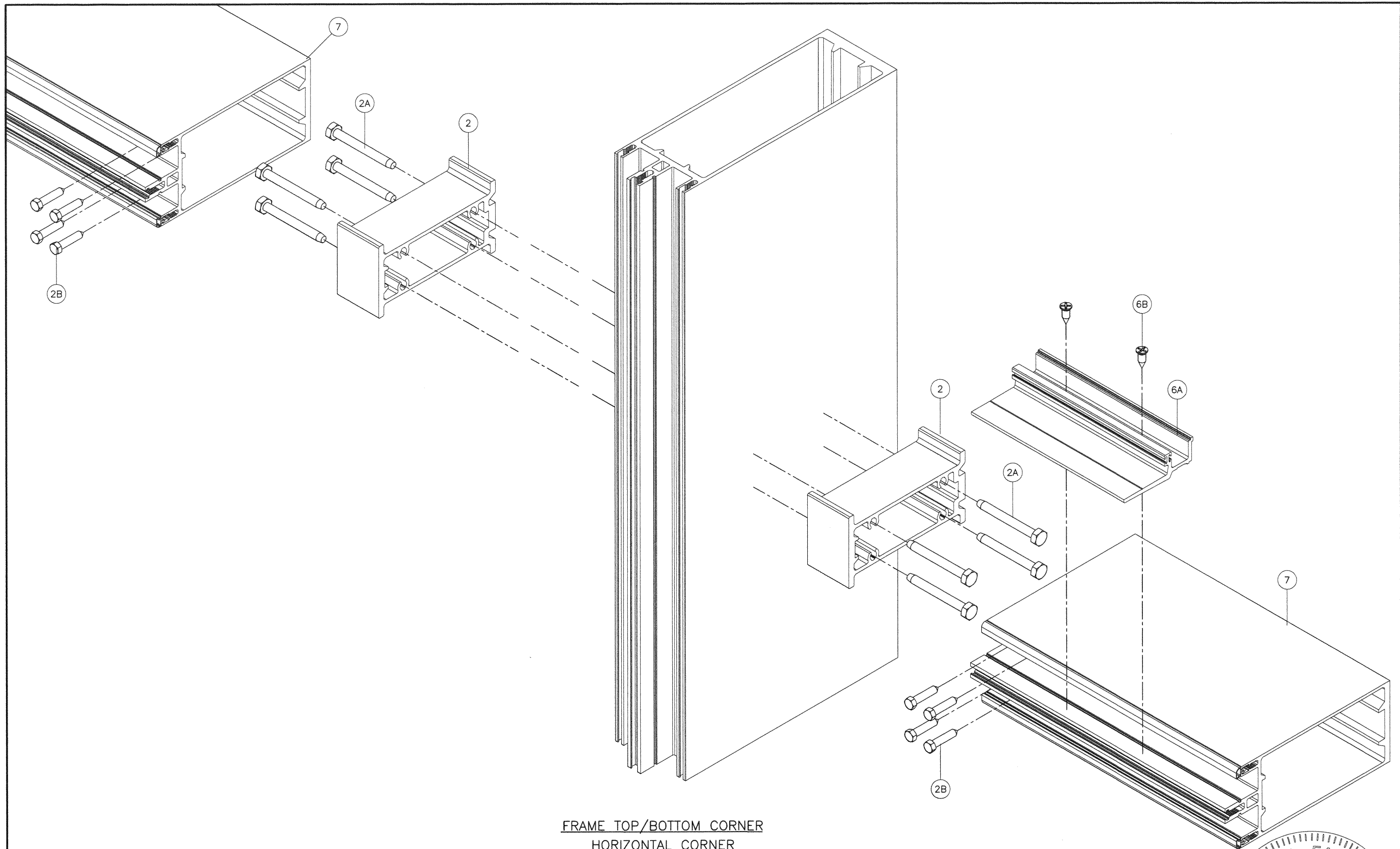
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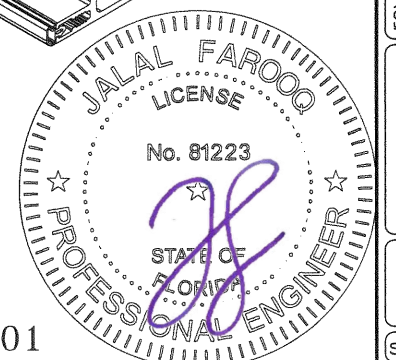
FL #27401



FRAME TOP/BOTTOM CORNER
HORIZONTAL CORNER
FOR ELEVATION SHOWN ON SHEETS 3.1 & 3.2

Sealed:8/12/2020

FL #27401



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