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Product Approval
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OFFICE OF THE SECRETARY

FL #	FL27401-R6										
Application Type	Revision										
Code Version	2023										
Application Status	Approved										
Comments											
Archived	<input type="checkbox"/>										
Product Manufacturer	Mr-Glass Doors & Windows Manufacturing, LLC										
Address/Phone/Email	8051 NW 79th Place Medley, FL 33166 (305) 470-8284 ulises@mrglasswindows.com										
Authorized Signature	Ulises Senaris ulises@mrglasswindows.com										
Technical Representative	Augusto Arias										
Address/Phone/Email	8120 NW 84th St Medley, FL 33166 (305) 470-8284 aarias@mrglasswindows.com										
Quality Assurance Representative											
Address/Phone/Email											
Category	Panel Walls										
Subcategory	Curtain Walls										
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer <input type="checkbox"/> Evaluation Report - Hardcopy Received										
Florida Engineer or Architect Name who developed the Evaluation Report	Jalal Farooq										
Florida License	PE-81223										
Quality Assurance Entity	Keystone Certifications, Inc.										
Quality Assurance Contract Expiration Date	08/27/2025										
Validated By	Abel Carrasco, PE <input checked="" type="checkbox"/> Validation Checklist - Hardcopy Received										
Certificate of Independence	FL27401_R6_COI_SS - Certificate of Independence 2023.pdf										
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th>Standard</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>AAMA 501</td> <td>2015</td> </tr> <tr> <td>TAS-201</td> <td>1994</td> </tr> <tr> <td>TAS-202</td> <td>1994</td> </tr> <tr> <td>TAS-203</td> <td>1994</td> </tr> </tbody> </table>	Standard	Year	AAMA 501	2015	TAS-201	1994	TAS-202	1994	TAS-203	1994
Standard	Year										
AAMA 501	2015										
TAS-201	1994										
TAS-202	1994										
TAS-203	1994										
Equivalence of Product Standards Certified By											

Sections from the Code

Product Approval Method	Method 1 Option D
Date Submitted	07/25/2023
Date Validated	08/01/2023
Date Pending FBC Approval	08/06/2023
Date Approved	10/17/2023

Summary of Products

FL #	Model, Number or Name	Description
27401.1	Series 2000 Aluminum Stick Curtain Wall System	Small missile impact resistant aluminum stick curtain wall system.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +80/-110 Other: See drawing 18-55F for installation instructions.		Installation Instructions FL27401_R6_II_SS - 2000 CW (SMI) - DWG 18-55F 2023.1.pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL27401_R6_AE_SS - 2000 CW (SMI) - PAE 2023.pdf Created by Independent Third Party: Yes
27401.2	Series 2000 Aluminum Stick Curtain Wall System	Large missile impact resistant aluminum stick curtain wall system.
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +90/-100 Other: See drawing 19-18F for span vs. load combinations and installation instructions.		Installation Instructions FL27401_R6_II_SS - 2000 CW (LMI) - DWG 19-18F 2023.pdf Verified By: Jalal Farooq PE 81223 Created by Independent Third Party: Yes Evaluation Reports FL27401_R6_AE_SS - 2000 CW (LMI) - PAE 2023.pdf Created by Independent Third Party: Yes

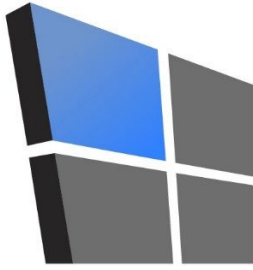
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AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

January 23, 2023

Product Approval Administrator
Building Codes & Standards Section
Department of Business & Professional Regulations
1940 North Monroe Street, Suite 90
Tallahassee, FL 32399-2100

To whom it may concern,

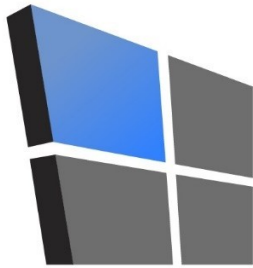
As the design engineer retained to prepare the product approval(s) associated with this letter as shown below on this same web page, I do hereby declare that I do not have and will not have any financial interest in any company manufacturing or distributing the referenced product(s), nor do I have or will have any financial interest with any other entity involved in the approval process of the referenced product(s).

Sincerely,



Jalal Farooq, P.E.
CFO

Sealed: 1/23/2023



AL-FAROOQ CORPORATION

CONSULTING ENGINEERS & PRODUCT DEVELOPMENT

PRODUCT APPROVAL EVALUATION RULE CHAPTER #61G20-3 • METHOD 1 OPTION D

FL 27401

Date: 7/21/2023

Detailed Product Description:

Manufacturer: MR-GLASS DOORS & WINDOWS MANUFACTURING LLC.

Manufacturer Address: 8051 NW 79th PLACE. MEDLEY, FL 33166

Model Name: SERIES 2000 STICK ALUMINUM CURTAIN WALL SYSTEM

Maximum Load: +90 PSF, -100 PSF (Large Missile Impact)

Installation Drawings # 19-18F

This product complies with the High Velocity Hurricane Zone (HVHZ) testing requirements.					
For maximum sizes, combination of span vs loads and anchor type refer to installation drawings.					
Comparative analysis used <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Mandatory Tests (Tested in accordance with AAMA 501/101/I.S.2/NAFS/TAS-202)					
TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	Test Sealed by
ASTM E283	Air Infiltration Leakage	Hurricane Engineering & Testing, Inc.	11/13/2018 11/15/2019	HETI-18-6062 HETI-18-6077 HETI-19-7058	Rafael E. Droz-Seda, PE
		Fenestration Testing Laboratories, Inc.	2/1/2019 5/1/2017	FTL-10303 FTL-9414	Idalmis Ortega, PE
ASTM E331 OR ASTM 547 & TAS 202	Water Penetration	Hurricane Engineering & Testing, Inc.	11/13/2018 11/15/2019	HETI-18-6062 HETI-18-6077 HETI-19-7058	Rafael E. Droz-Seda, PE
		Fenestration Testing Laboratories, Inc.	2/1/2019 5/1/2017	FTL-10303 FTL-9414	Idalmis Ortega, PE
ASTM E330 & TAS 202	Uniform Static Air Press.	Hurricane Engineering & Testing, Inc.	11/13/2018 11/15/2019 3/29/2022	HETI-18-6062 HETI-18-6077 HETI-19-7058 HETI-22-7166	Rafael E. Droz-Seda, PE Ram N. Tewari, PE
		Fenestration Testing Laboratories, Inc.	2/1/2019 5/1/2017	FTL-10303 FTL-9414	Idalmis Ortega, PE

Supplemental Tests (Tested in accordance with TAS-201 and TAS-203)

TEST	DESCRIPTION	TEST LOCATION	TEST REPORT DATE	TEST REPORT #	Test Sealed by
FBC 1626.2 (TAS 201 & 203) ASTM E1886/E1996 ANSI Z97.1	Large Missile Impact & Cyclic	Hurricane Engineering & Testing, Inc.	11/13/2018	HETI-18-6062 HETI-18-6077	Rafael E. Droz-Seda, PE
			11/15/2019 3/29/2022	HETI-19-7059 HETI-22-7166	Ram N. Tewari, PE
		Fenestration Testing Laboratories, Inc.	2/1/2019 5/1/2017	FTL-10303 FTL-9414	Idalmis Ortega, PE

Under the limitations of the attached installation drawings, to the best of my knowledge and ability, the above product conforms to the requirements of the 2023 Florida Building Code.

Evaluation Report Engineer:

Jalal Farooq
Al-Farooq Corporation

PE # 81223
EB # 3538



Sealed: 7/21/2023

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 2020 (7TH EDITION)/2023 (8TH 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 2020/2023 FLORIDA BLDG. CODE & ADOPTED STANDARDS.

THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC.

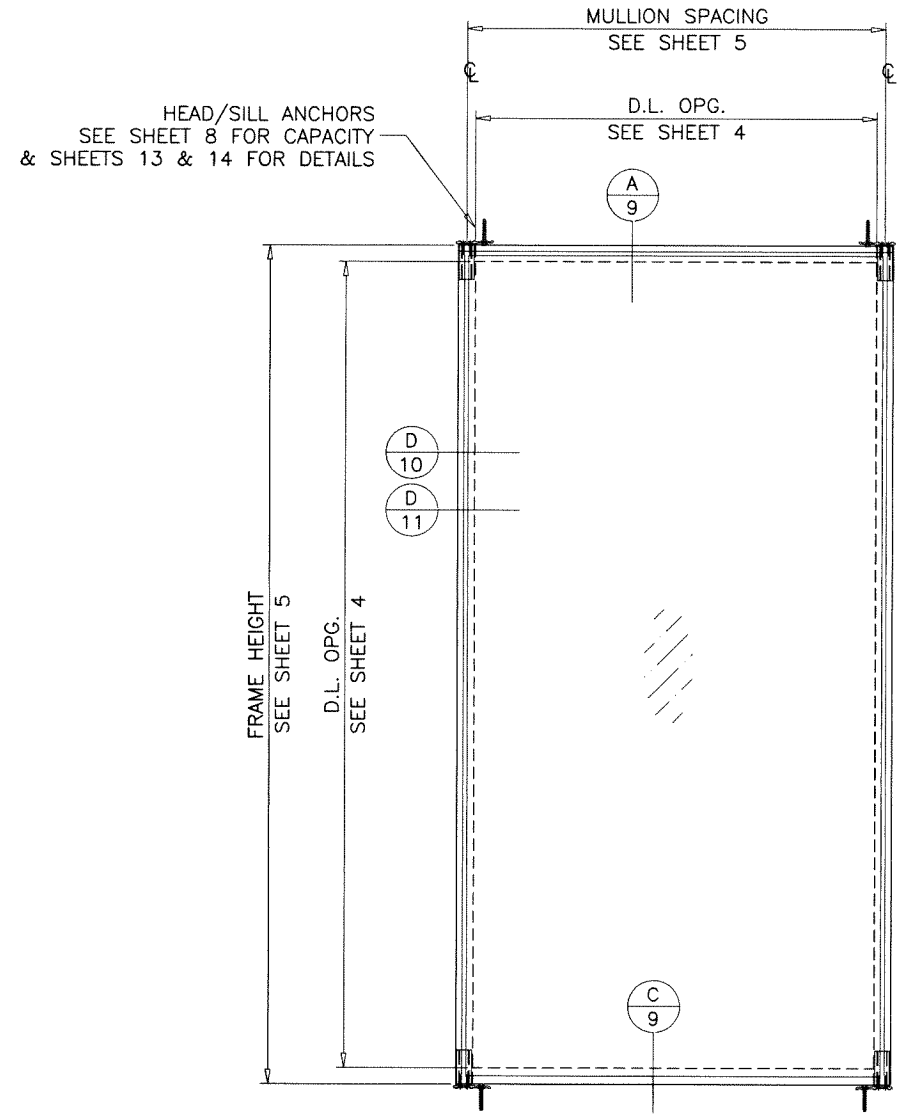
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'.

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.

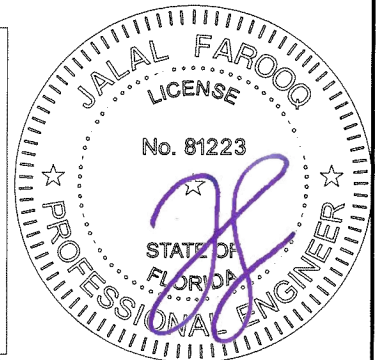


TYPICAL ELEVATION SINGLE 'O' PANEL

LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT

Sealed: 7/21/2023 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.



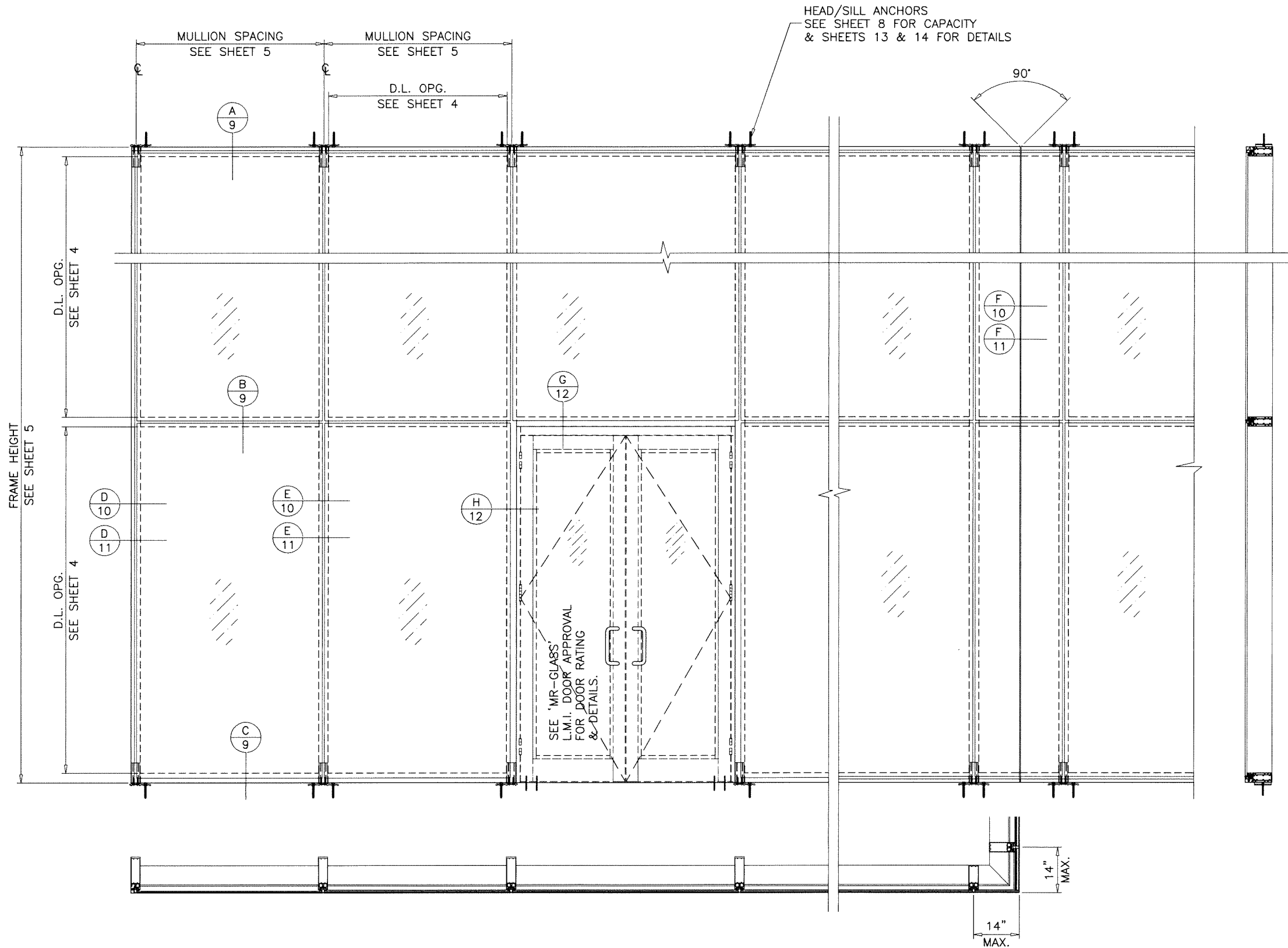
af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100 FAX. (305) 262-6978
 (C.A.N. 3538)

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

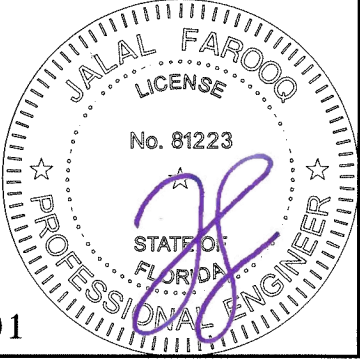
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B	07.22.20	UPDATED TO 2020 FBC
C	08.12.22	NEW TEST ADDED
D	01.23.23	DECORATIVE CAP OPTION ADDED
E	07.18.23	UPDATED TO 2023 FBC

date: 03-15-19
 scale: -
 dr. by: TARIQ
 chk. by:
 drawing no. 19-18F
 sheet 1 of 21

COMP-ANL\19-18F-MG



TYPICAL ELEVATION
SINGLE SPANS



Sealed: 7/21/2023

FL #27401

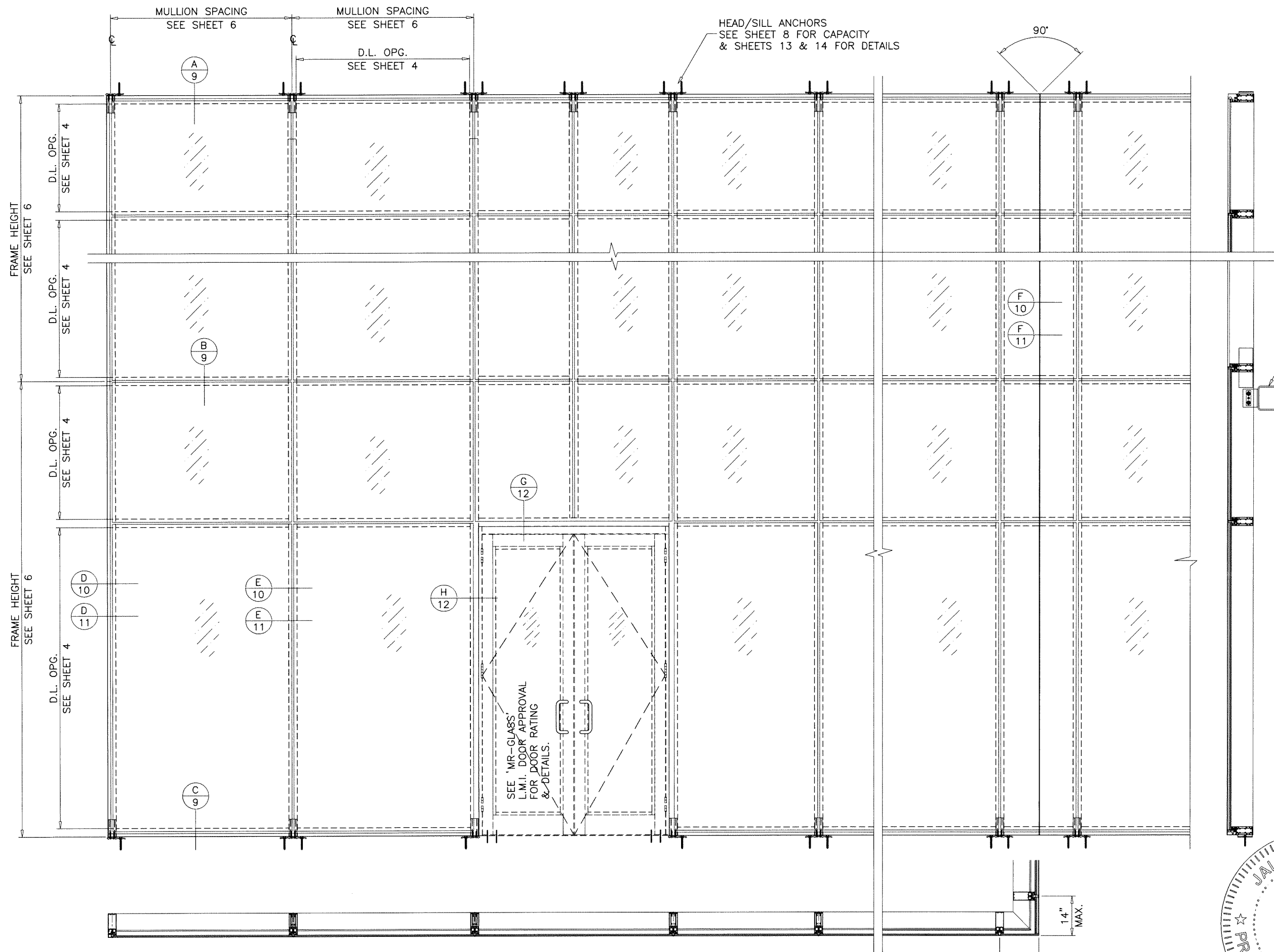
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 COMP-ANL\19-18F-MG

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 Medley, FL. 33166
 Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:	no	date	by	description

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 dr. by: TARIQ
 chk. by:

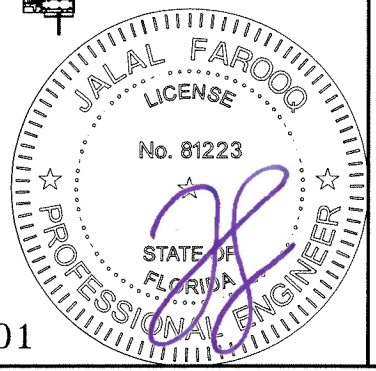
drawing no.
19-18F
 sheet 2 of 21



TYPICAL ELEVATION
TWIN SPANS

Sealed: 7/21/2023

FL #27401



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 COMP-ANL 19-18F-MG

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revisions:	
no	date by description

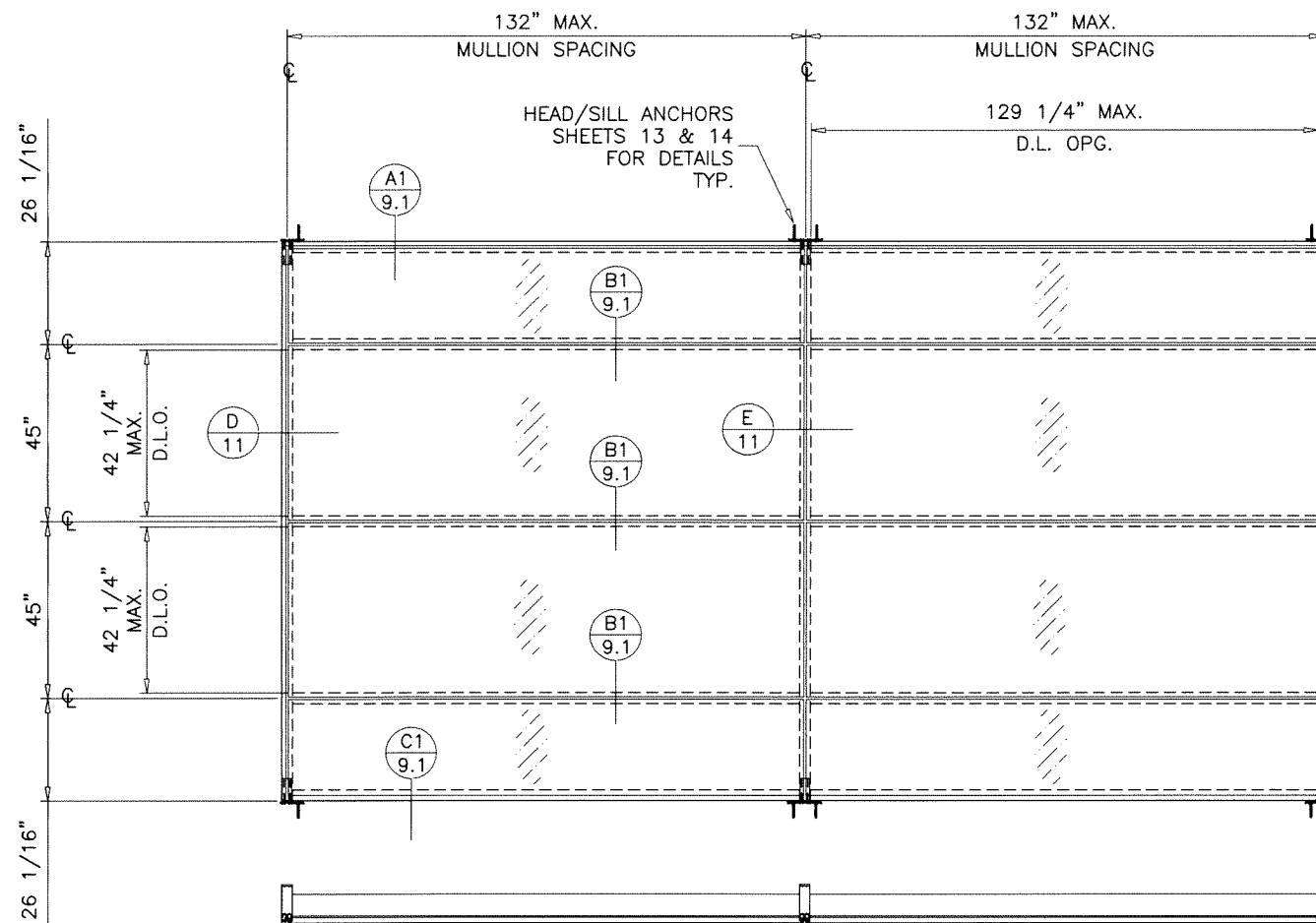
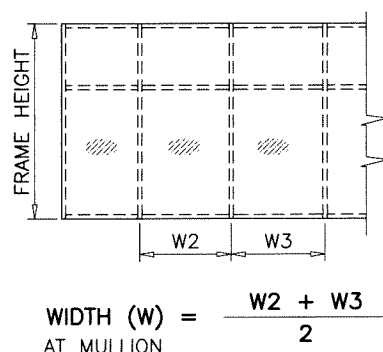
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dr. by: TARIQ	chk. by:

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

GLASS DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		GLASS TYPE 'Ai'		GLASS TYPE 'Bi'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
42-1/4"	90-1/2"	60.0	60.0	60.0	60.0
45-1/4"		60.0	60.0	56.3	56.3
51-1/4"		60.0	60.0	50.0	50.0
57-1/4"		60.0	60.0	45.0	45.0
42-1/4"	102-1/2"	60.0	60.0	60.0	60.0
45-1/4"		60.0	60.0	56.3	56.3
51-1/4"		60.0	60.0	50.0	50.0
42-1/4"	114-1/2"	60.0	60.0	60.0	60.0
45-1/4"		60.0	60.0	56.3	56.3
42-1/4"	126-1/2"	60.0	60.0	60.0	60.0
30-3/8"	129-1/4"	60.0	60.0	60.0	60.0

MULLION DESIGN LOAD CAPACITY - PSF SINGLE SPANS					
NOMINAL DIMS.		MULL 'M4'		MULL 'M6'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
132"	120"	60.0	60.0	60.0	60.0
120"	132"	60.0	60.0	60.0	60.0
132"		58.0	58.0	60.0	60.0
96"	144"	60.0	60.0	60.0	60.0
108"		59.5	59.5	60.0	60.0
120"		53.6	53.6	60.0	60.0
132"		48.7	48.7	60.0	60.0

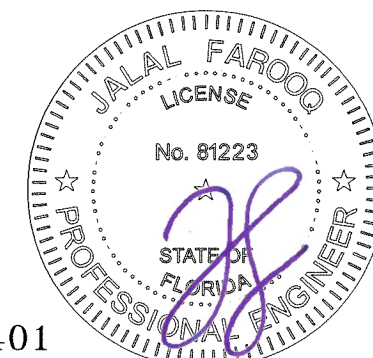
HEAD/SILL ANCHOR DESIGN LOAD CAPACITY - PSF EXT.(+) & INT.(-)									
NOMINAL DIMS.		ANCHOR TYPE 'A'			ANCHOR TYPE 'B'				ANCHOR TYPE 'C'
WIDTH (W)	FRAME HEIGHT	'F' CLIP INTO CONC.	'T' CLIP INTO CONC.		'JAMB PLATE' INTO CONC.		'MULLION PLATE' INTO CONC.		'F' CLIP, 'T' CLIP
		4000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	
96"	126"	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
108"		60.0	58.4	60.0	60.0	60.0	60.0	60.0	60.0
120"		60.0	52.6	60.0	60.0	60.0	60.0	60.0	60.0
132"		60.0	47.8	58.2	60.0	60.0	57.1	60.0	60.0
96"	132"	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
108"		60.0	55.8	60.0	60.0	60.0	60.0	60.0	60.0
120"		60.0	50.2	60.0	60.0	60.0	60.0	60.0	60.0
132"		60.0	45.6	55.5	59.5	60.0	54.5	60.0	60.0
60"	144"	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96"		60.0	57.5	60.0	60.0	60.0	60.0	60.0	60.0
108"		60.0	51.1	60.0	60.0	60.0	60.0	60.0	60.0
120"		60.0	46.0	56.0	60.0	60.0	55.0	60.0	60.0
132"		60.0	41.8	50.9	60.0	60.0	50.0	60.0	60.0



CHARTS SHOWN ON THIS SHEET APPLY TO CONDITIONS SHOWN ON SHEETS 3.1 AND 3.2 ONLY
 GLASS TYPES 'Ai' AND 'Bi' (SEE CHART ABOVE FOR CAPACITY)
 JAMBS TYPE 'J2'
 MULLIONS TYPES 'M4' AND 'M6' (SEE CHART AT LEFT FOR CAPACITY)

Sealed: 7/21/2023

FL #27401



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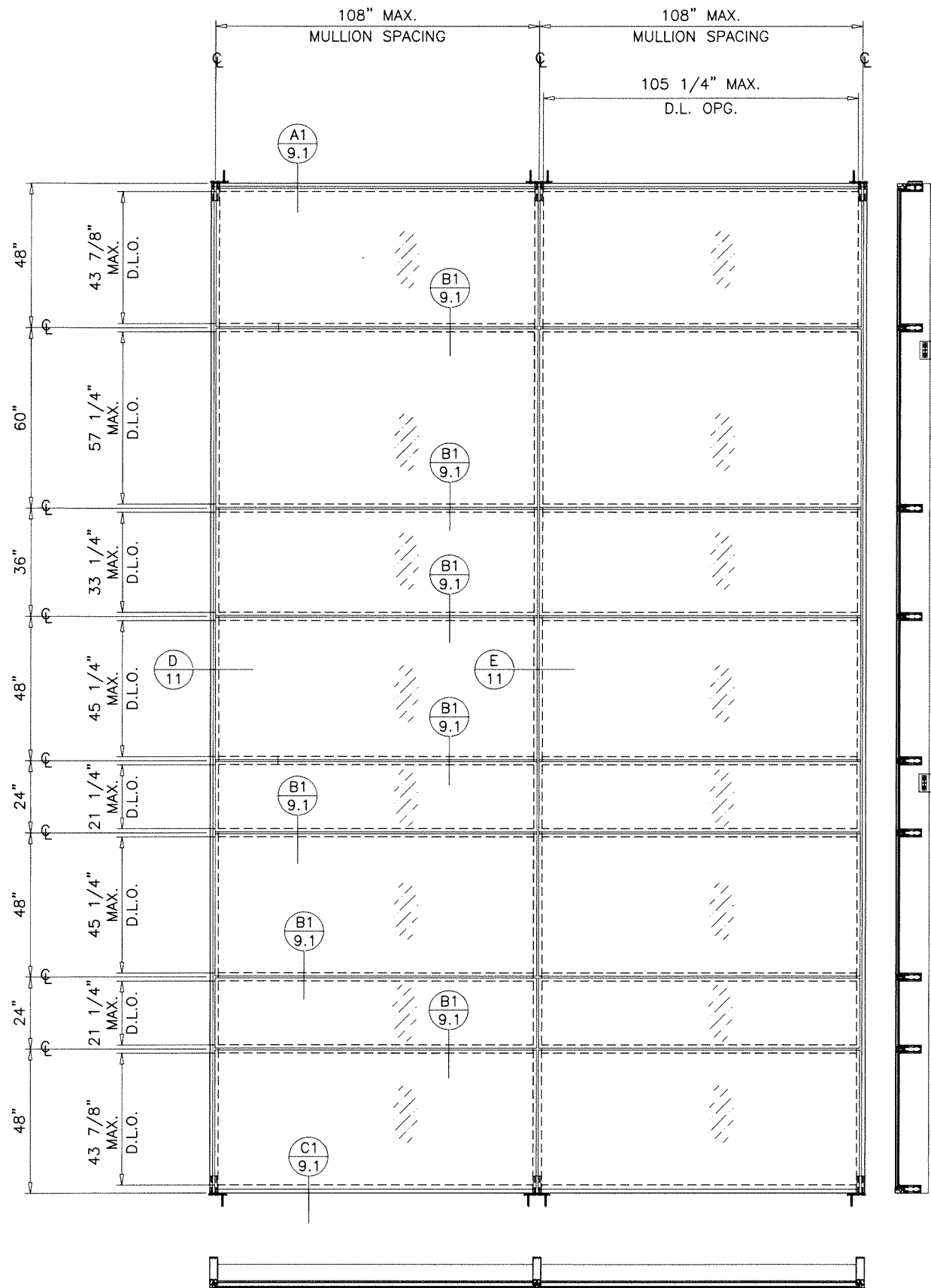
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revisions:	no	date	by	description

date: 03-15-19
 scale: 1/4" = 1'-0"
 dr. by: TARIQ
 chk. by:

drawing no. **19-18F**
 sheet 3.1 of 21

COMP-ANL 19-18F-MG



INTERMEDIATE ANCHORS SEE SHEETS 15 THRU 18



Sealed: 7/21/2023

FL #27401

afc

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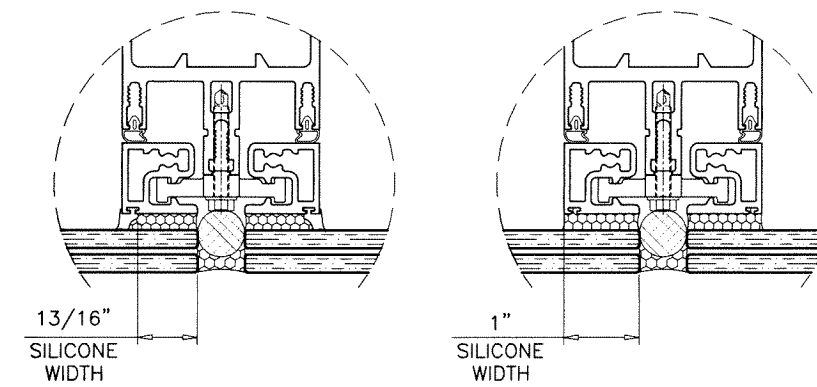
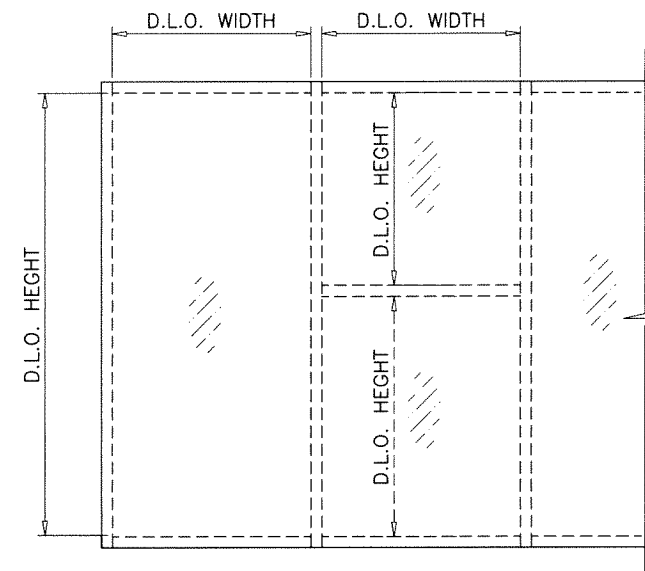
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no	date	description

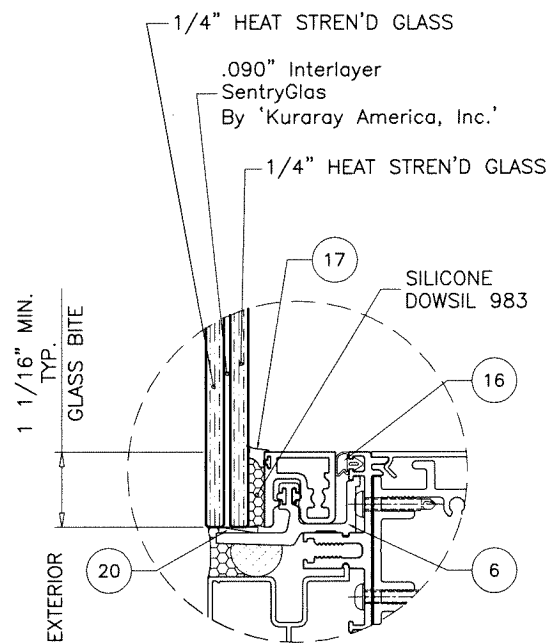
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 drawing no. 19-18F
 sheet 3.2 of 21

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
63-1/4"		81.8	81.8
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
63-1/4"		81.8	81.8
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
57-1/4"		90.0	90.0
63-1/4"		81.8	81.8
33-1/4"	132-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	94.7
57-1/4"		90.0	90.0
63-1/4"		81.8	81.8
33-1/4"	138-1/2"	90.0	100.0
39-1/4"		90.0	100.0
45-1/4"		90.0	100.0
51-1/4"		90.0	100.0
57-1/4"		90.0	100.0
63-1/4"		81.8	81.8
33-1/4"	144-1/2"	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"		81.8	81.8

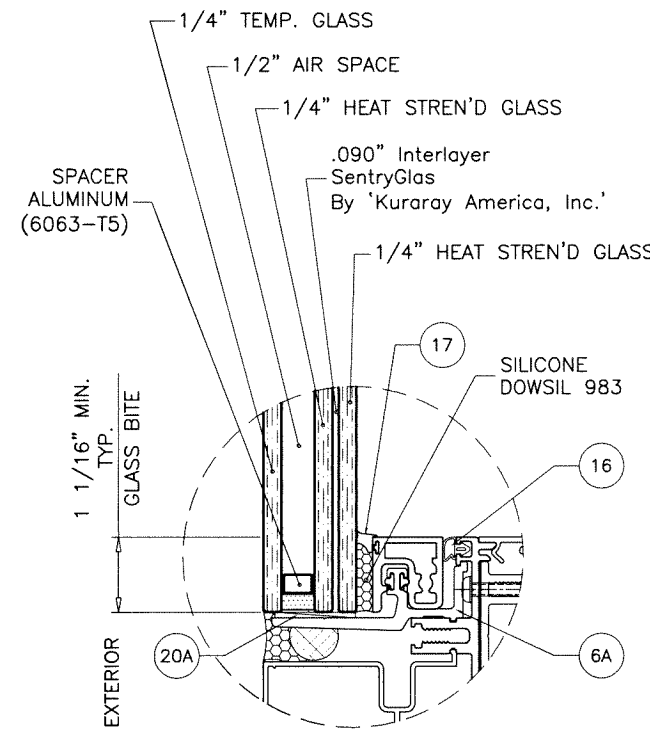
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



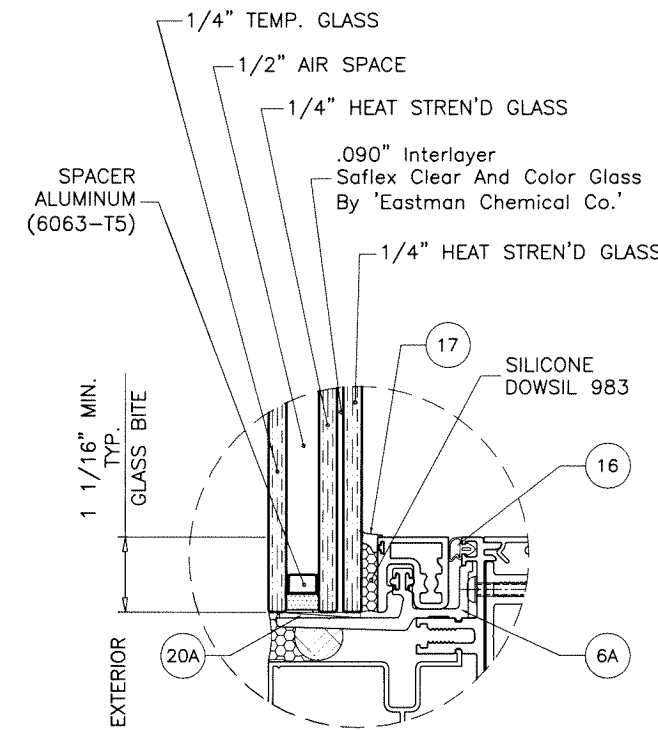
SILICONE CAPACITY - PSF		
D.L.O. WIDTH	SILICONE WIDTH	
	13/16"	1"
39-1/4"	100.0	100.0
45-1/4"	99.0	100.0
51-1/4"	88.0	100.0
57-1/4"	79.2	96.0
63-1/4"	72.0	87.3
69-1/4"	66.0	80.0



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



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



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

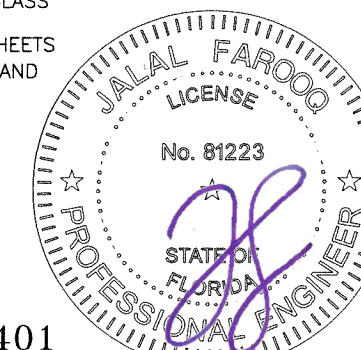
GLAZING OPTIONS

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

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

Sealed: 7/21/2023

FL #27401



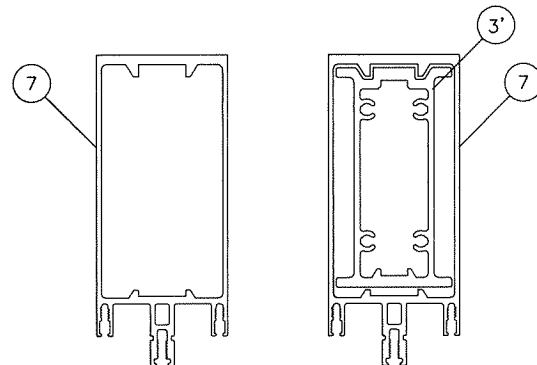
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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revisions:	no	date	by	description
date:	03-15-19	scale:	-	
dr. by:	TARIQ	chk. by:		
drawing no.	19-18F			
sheet	4 of 21			

MULLION DESIGN LOAD CAPACITY - PSF SINGLE SPANS					
NOMINAL DIMS.		JAMB 'J1' MULL 'M1'		JAMB 'J1' MULL 'M2'	
WIDTH (W)	FRAME HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36"	96"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		65.0	65.0	85.0	85.0
54"		65.0	65.0	85.0	85.0
60"		65.0	65.0	85.0	85.0
66"		65.0	65.0	85.0	85.0
72"		65.0	65.0	85.0	85.0
36"	108"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		65.0	65.0	85.0	85.0
54"		65.0	65.0	85.0	85.0
60"		65.0	65.0	85.0	85.0
66"		65.0	65.0	85.0	85.0
72"		-	-	85.0	85.0
36"	120"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		65.0	65.0	85.0	85.0
54"		65.0	65.0	85.0	85.0
60"		65.0	65.0	85.0	85.0
66"	-	-	85.0	85.0	
36"	132"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		65.0	65.0	85.0	85.0
54"		64.7	64.7	85.0	85.0
60"	-	-	85.0	85.0	
36"	138"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		65.0	65.0	85.0	85.0
54"		-	-	85.0	85.0
56"	-	-	85.0	85.0	
36"	144"	65.0	65.0	85.0	85.0
42"		65.0	65.0	85.0	85.0
48"		58.5	58.5	85.0	85.0
54"		-	-	80.5	80.5
36"	150"	65.0	65.0	65.0	65.0
42"		59.2	59.2	65.0	65.0
48"		51.8	51.8	65.0	65.0
48"		-	-	65.0	65.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.



JAMB 'J1'
MULLION 'M1'

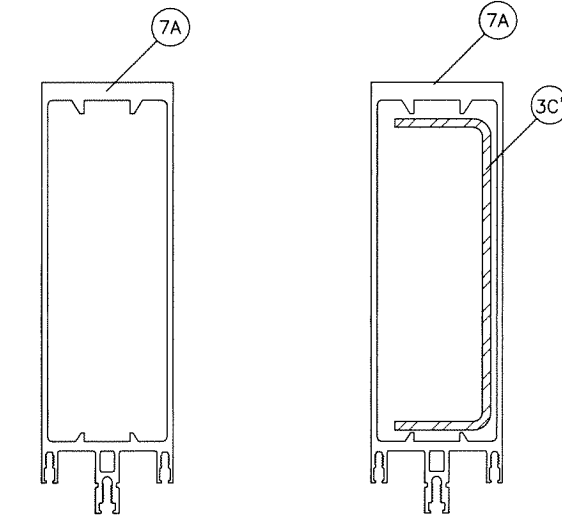
MULLION 'M2'

Ix	IN ⁴	Sx	IN ³
	13.52		3.96

Ix	IN ⁴	Sx	IN ³
	20.92		6.13

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
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
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
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
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"		73.3	73.3	80.0	90.0
36"	192"	-	-	80.0	90.0
42"		-	-	80.0	90.0
48"		-	-	80.0	90.0
54"		-	-	80.0	90.0
36"	204"	-	-	80.0	90.0
42"		-	-	80.0	90.0
48"		-	-	80.0	90.0
54"		-	-	80.0	80.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.

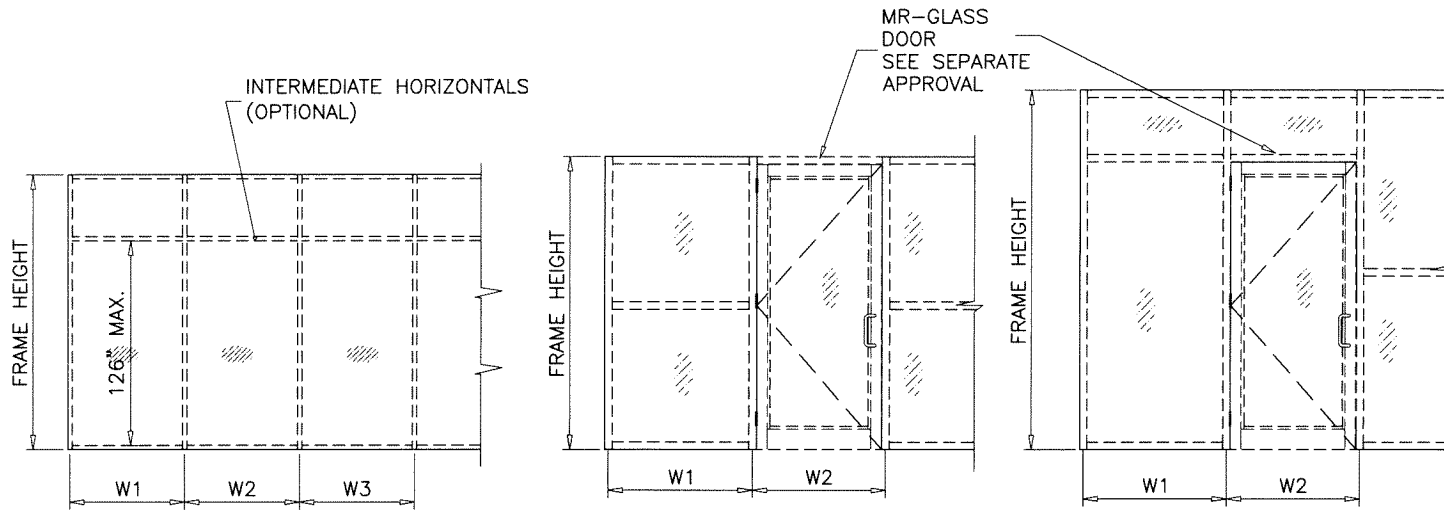


JAMB 'J2'
MULLION 'M4'

MULLION 'M6'

Ix	IN ⁴	Sx	IN ³
	41.55		8.36

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

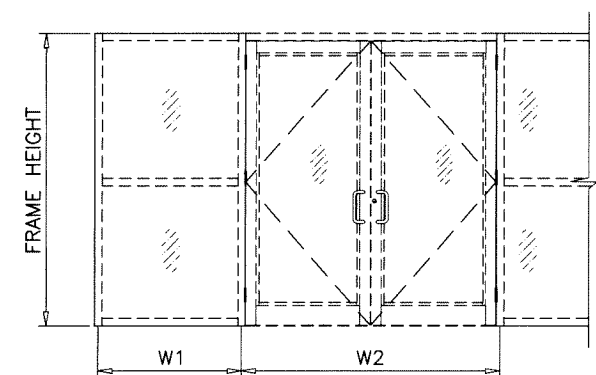


WIDTH (W) = W1
AT JAMB

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

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

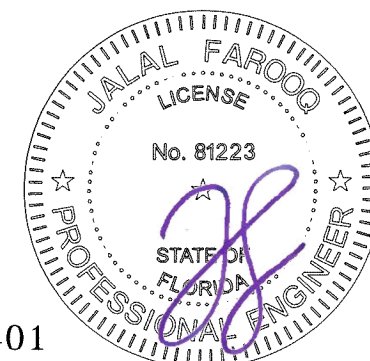
WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



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

Sealed: 7/21/2023

FL #27401



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revisions:	no.	date	by	description

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

drawing no.
19-18F
sheet 5 of 21

COMP-ANL \ 19-18F-MG

MULLION DESIGN LOAD CAPACITY - PSF
EQUAL LENGTHS TWO OR MULTIPLE SPANS

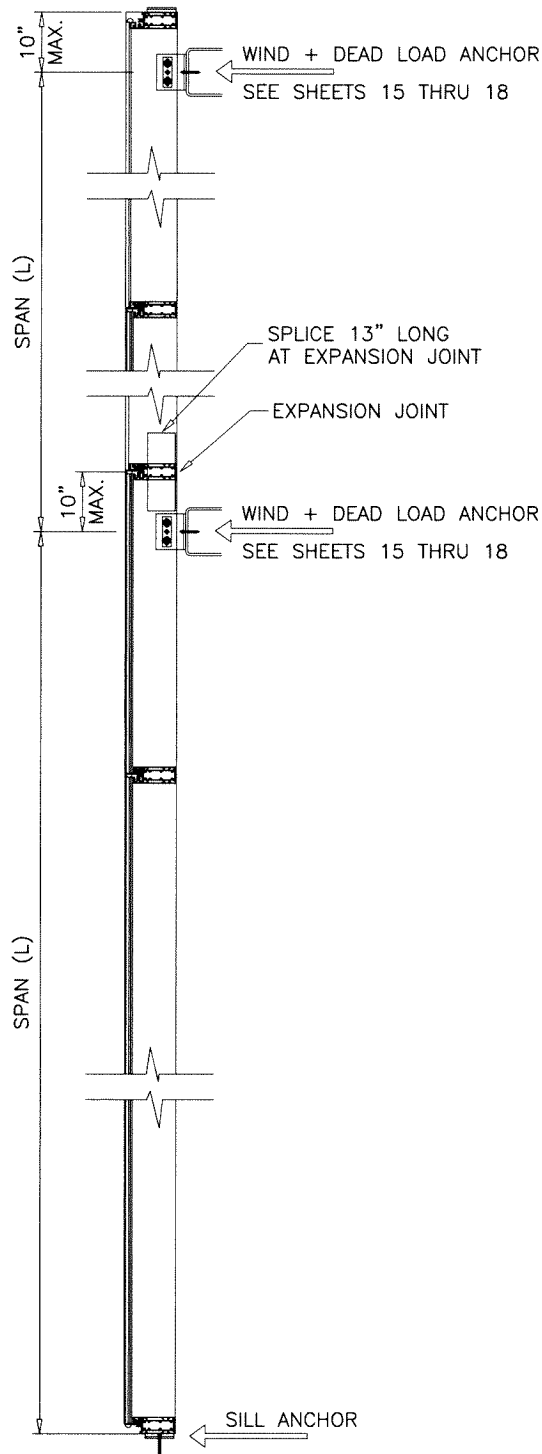
NOMINAL DIMS.		JAMB 'J1' MULL 'M2'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
36"	96"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
60"		85.0	85.0
66"		85.0	85.0
72"		85.0	85.0
36"	108"	85.0	85.0
42"		85.0	85.0
48"		85.0	85.0
54"		85.0	85.0
60"		85.0	85.0
66"		85.0	85.0
72"		85.0	85.0
36"	120"	85.0	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
72"		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
72"		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
72"		85.0	85.0
36"	156"	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"	168"	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"	180"	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"	192"	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"	204"	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

INTERPOLATION BETWEEN WIDTHS ALLOWED.

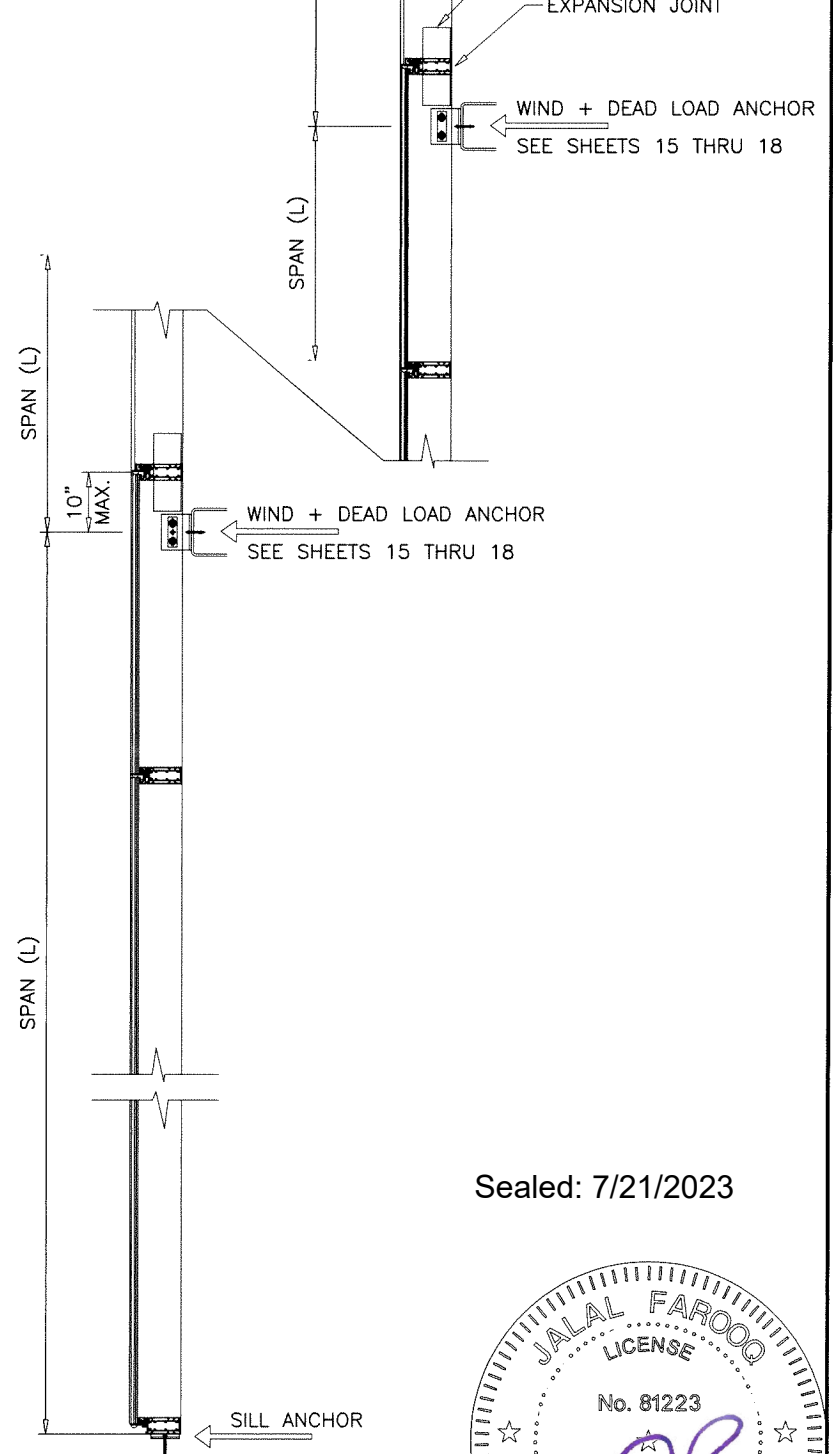
MULLION DESIGN LOAD CAPACITY - PSF
EQUAL LENGTHS TWO OR MULTIPLE SPANS

NOMINAL DIMS.		JAMB 'J2' MULL 'M4'		JAMB 'J2' MULL 'M6'	
WIDTH (W)	SPAN (L)	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"		73.3	73.3	80.0	90.0
60"		-	-	80.0	90.0
66"		-	-	80.0	90.0
72"		-	-	80.0	90.0
36"	192"	-	-	80.0	90.0
42"		-	-	80.0	90.0
48"		-	-	80.0	90.0
54"		-	-	80.0	90.0
60"		-	-	80.0	90.0
66"		-	-	80.0	90.0
72"		-	-	80.0	90.0
36"	204"	-	-	80.0	90.0
42"		-	-	80.0	90.0
48"		-	-	80.0	90.0
54"		-	-	80.0	90.0
60"		-	-	80.0	90.0
66"		-	-	80.0	90.0
72"		-	-	80.0	90.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.



TWO SPANS



MULTIPLE SPANS

Sealed: 7/21/2023



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

FL #27401

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revisions:	no	date	by	description
date:	03-15-19	scale:	-	dr. by: TARIQ
chk. by:				
drawing no.	19-18F			
sheet	5.1 of 21			

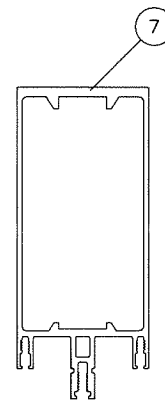
MULLION DESIGN LOAD CAPACITY - PSF
TWO SPANS & MULTIPLE SPANS

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

MULLION DESIGN LOAD CAPACITY - PSF
TWO SPANS & MULTIPLE SPANS

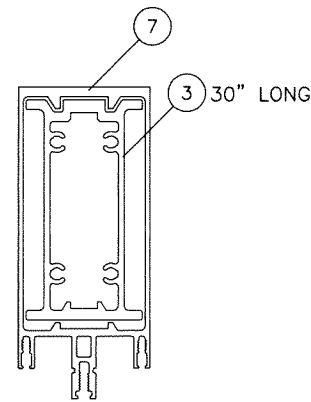
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	144"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.



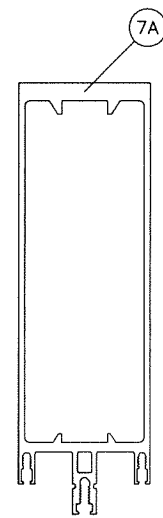
JAMB 'J1'

Ix IN ⁴	Sx IN ³
13.52	3.96



MULLION 'M6'

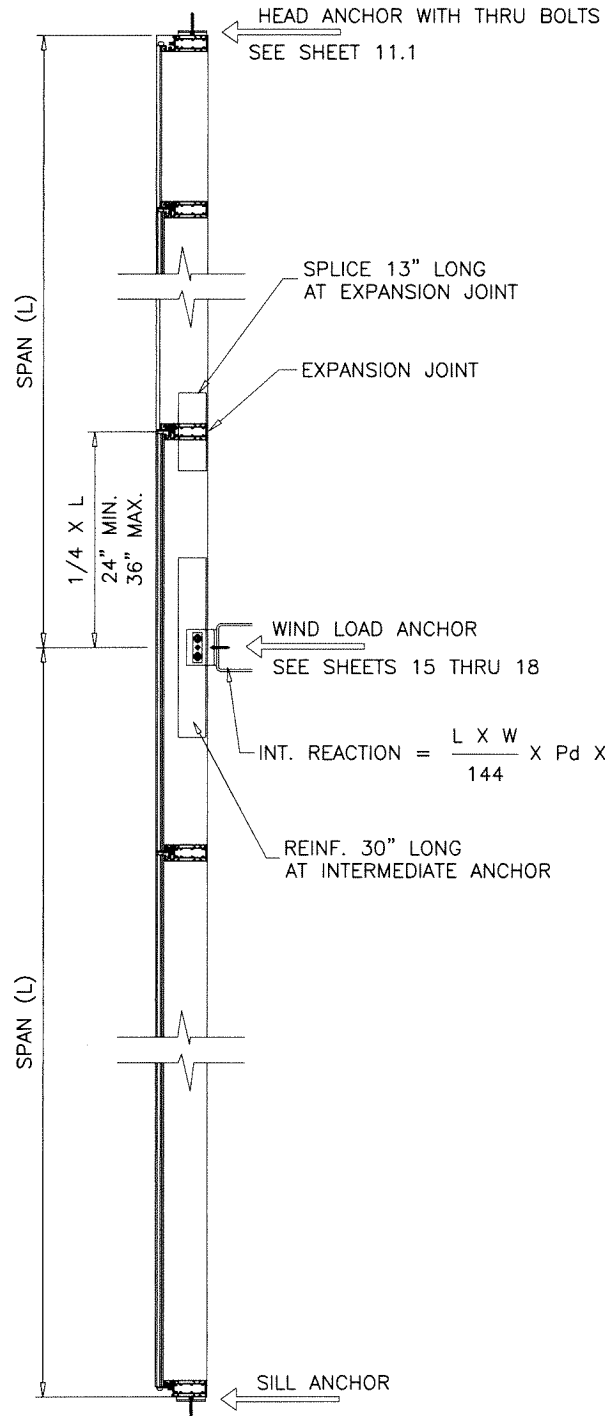
Ix IN ⁴	Sx IN ³
20.92	6.13



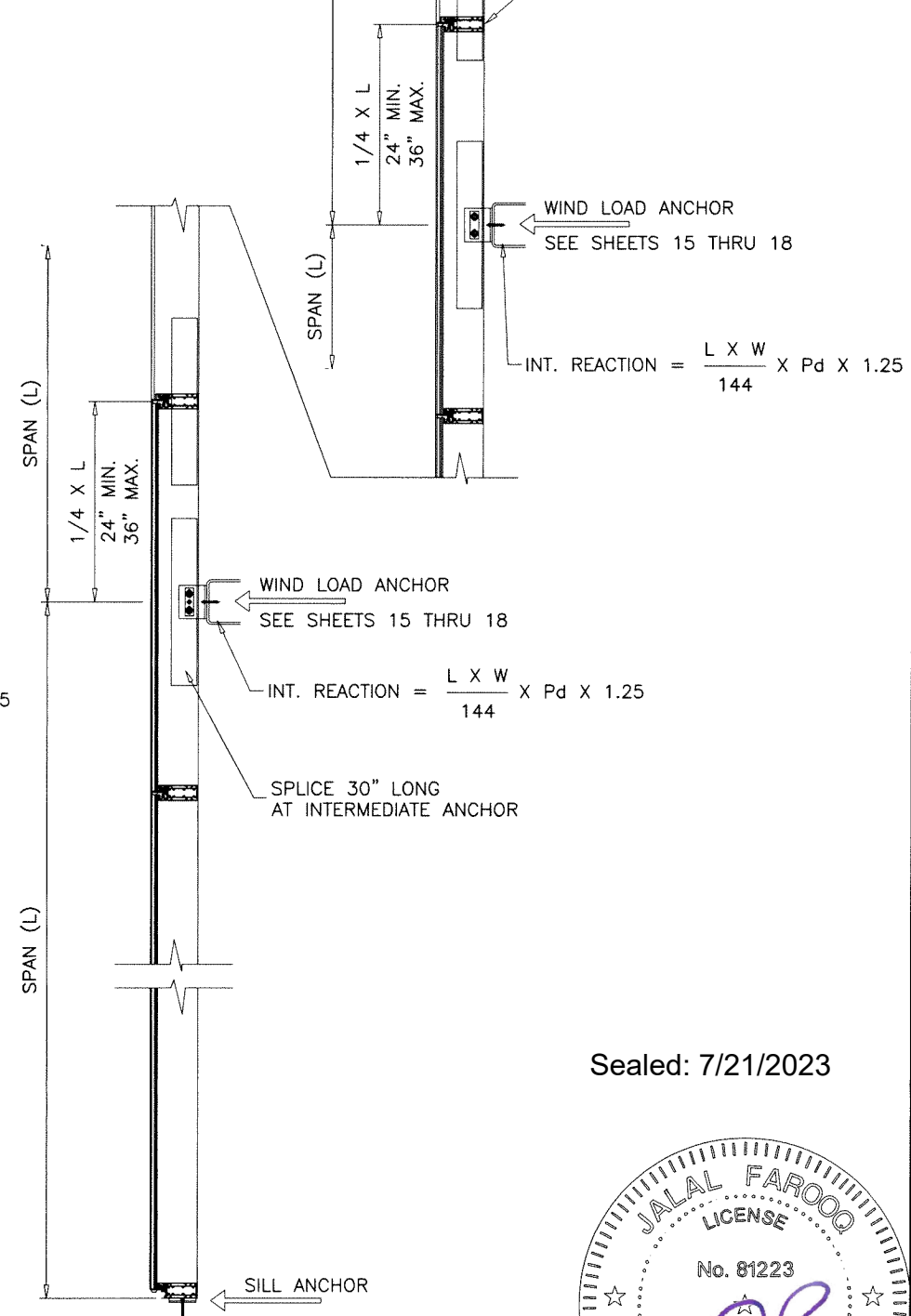
JAMB 'J2'
MULLION 'M4'

Ix IN ⁴	Sx IN ³
41.55	8.36

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

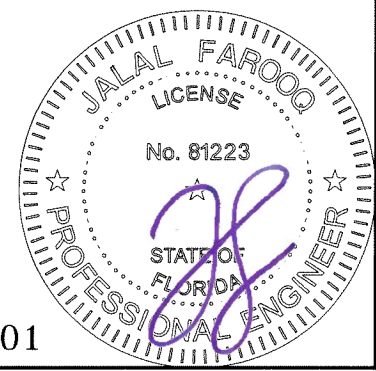


TWO SPANS WITH EXPANSION JOINTS



MULTIPLE SPANS WITH EXPANSION JOINTS

Sealed: 7/21/2023



FL #27401

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)
COMP-ANL\19-18F-MG

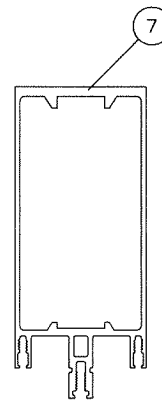
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:	no	date	description
date:	03-15-19	scale:	-
dr. by:	TARIC	chk. by:	
drawing no.	19-18F		
sheet	6 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

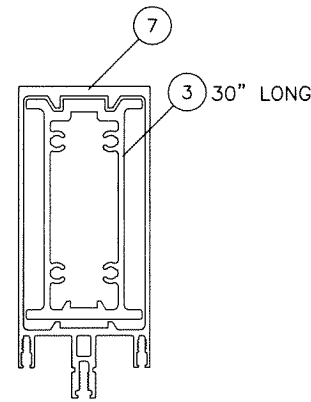
MULLION DESIGN LOAD CAPACITY - PSF TWO SPANS & MULTIPLE SPANS			
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"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



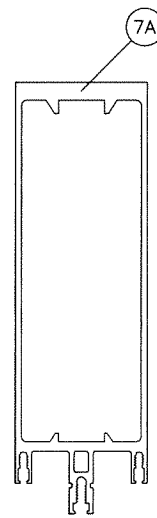
JAMB 'J1'

Ix IN ⁴	Sx IN ³
13.52	3.96



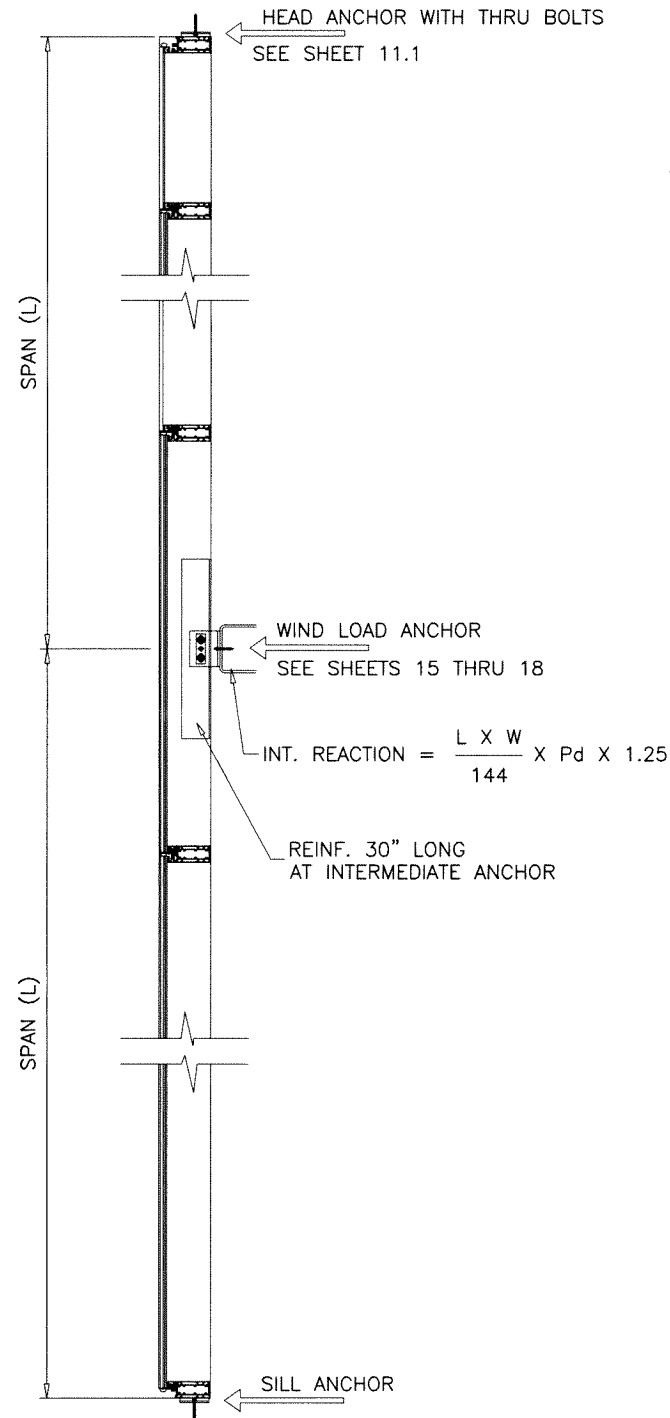
MULLION 'M6'

Ix IN ⁴	Sx IN ³
20.92	6.13



JAMB 'J2'
MULLION 'M4'

Ix IN ⁴	Sx IN ³
41.55	8.36

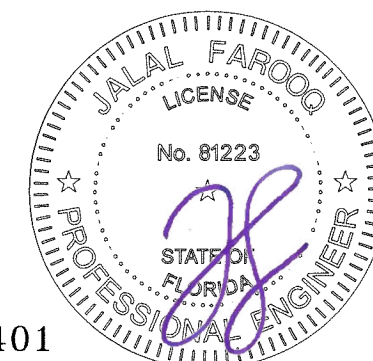


TWO SPANS WITHOUT EXPANSION JOINTS

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

Sealed: 7/21/2023

FL #27401



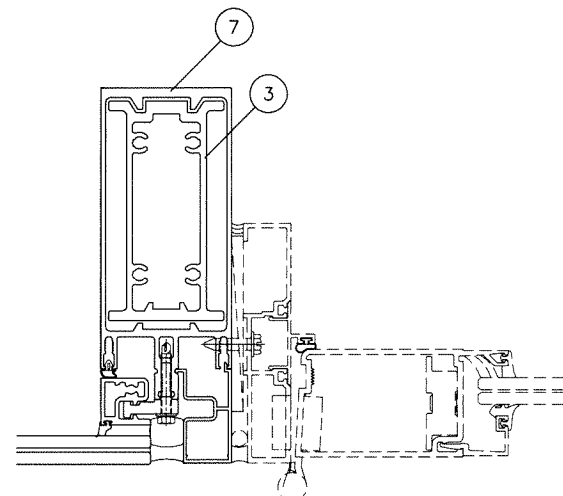
af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
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dr. by:	TARIQ	chk. by:		
drawing no.	19-18F			
sheet	6.1 of 21			

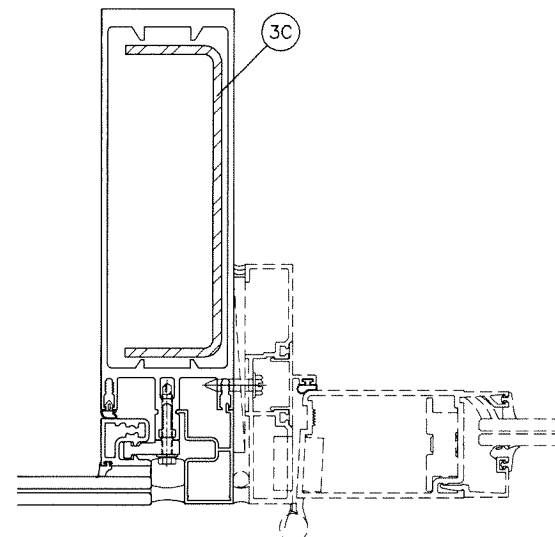
DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.			MULL 'DM1'		MULL 'DM2'	
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	120	84	85.0	85.0	80.0	90.0
42			85.0	85.0	80.0	90.0
48			85.0	85.0	80.0	90.0
54			85.0	85.0	80.0	90.0
60			85.0	85.0	80.0	90.0
36	144		82.7	82.7	80.0	90.0
42			78.5	78.5	80.0	90.0
48			74.7	74.7	80.0	90.0
54			71.2	71.2	80.0	90.0
60			68.0	68.0	80.0	90.0
36	156		-	-	80.0	90.0
42			-	-	80.0	90.0
48			-	-	80.0	90.0
54			-	-	80.0	90.0
60			-	-	80.0	90.0
36	168	-	-	80.0	90.0	
42		-	-	80.0	90.0	
48		-	-	80.0	90.0	
54		-	-	80.0	90.0	
60		-	-	80.0	90.0	
36	174	-	-	80.0	90.0	
42		-	-	80.0	90.0	
48		-	-	80.0	90.0	
54		-	-	80.0	90.0	
36	120	90	85.0	85.0	80.0	90.0
42			85.0	85.0	80.0	90.0
48			85.0	85.0	80.0	90.0
54			85.0	85.0	80.0	90.0
60			85.0	85.0	80.0	90.0
36	144		83.7	83.7	80.0	90.0
42			79.4	79.4	80.0	90.0
48			75.5	75.5	80.0	90.0
54			71.9	71.9	80.0	90.0
60			68.7	68.7	80.0	90.0
36	156		-	-	80.0	90.0
42			-	-	80.0	90.0
48			-	-	80.0	90.0
54			-	-	80.0	90.0
60			-	-	80.0	90.0
36	168	-	-	80.0	90.0	
42		-	-	80.0	90.0	
48		-	-	80.0	90.0	
54		-	-	80.0	90.0	
60		-	-	80.0	90.0	
36	174	-	-	80.0	90.0	
42		-	-	80.0	90.0	
48		-	-	80.0	90.0	
54		-	-	80.0	90.0	

DOOR MULLION LOAD CAPACITY - PSF						
NOMINAL DIMS.			MULL 'DM1'		MULL 'DM2'	
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	120	98	85.0	85.0	80.0	90.0
42			85.0	85.0	80.0	90.0
48			85.0	85.0	80.0	90.0
54			85.0	85.0	80.0	90.0
60			85.0	85.0	80.0	90.0
36	144		85.0	85.0	80.0	90.0
42			81.2	81.2	80.0	90.0
48			77.1	77.1	80.0	90.0
54			73.4	73.4	80.0	90.0
60			70.1	70.1	80.0	90.0
36	156		-	-	80.0	90.0
42			-	-	80.0	90.0
48			-	-	80.0	90.0
54			-	-	80.0	90.0
60			-	-	80.0	90.0
36	168	-	-	80.0	90.0	
42		-	-	80.0	90.0	
48		-	-	80.0	90.0	
54		-	-	80.0	90.0	
60		-	-	80.0	90.0	
36	174	-	-	80.0	90.0	
42		-	-	80.0	90.0	
48		-	-	80.0	90.0	
54		-	-	80.0	90.0	



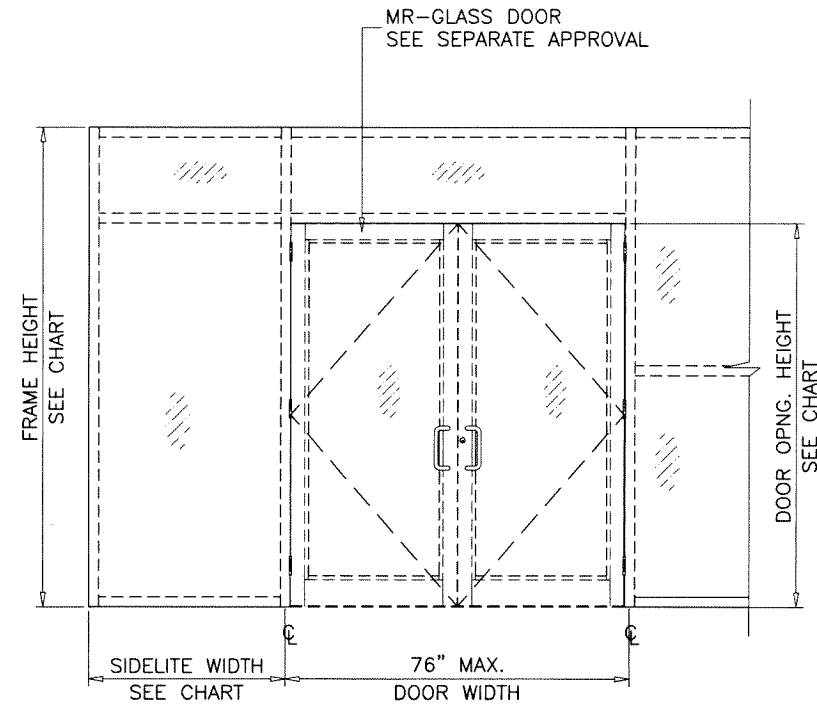
MULLION 'DM1'

Ix IN ⁴	Sx IN ³
20.92	6.13



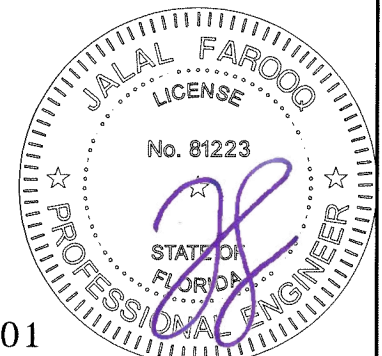
MULLION 'DM2'

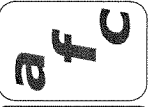
	Ix IN ⁴	Sx IN ³
ALUMINUM	41.55	8.36
STEEL	10.18	3.13
TOTAL	71.1	
Ix ALUM + Ix STL X 2.9		



Sealed: 7/21/2023

FL #27401





AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
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SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
 8051 N.W. 79th Place
 Medley, FL. 33166
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revisions:

no.	date	by	description

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

drawing no.
19-18F
sheet 7 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.		
WIDTH (W)	FRAME HEIGHT	4000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	4000 PSI	6000 PSI	'F' CLIP, 'T' CLIP 'JAMB, MULLION PLATE'
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.

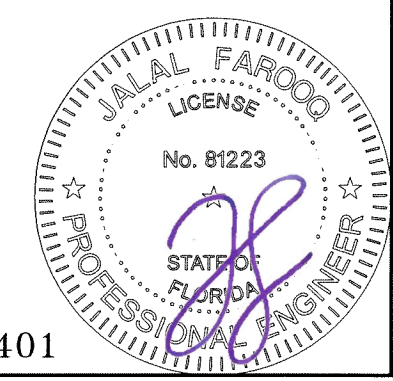
TYPICAL ANCHORS: SEE SHEETS 13 & 14 FOR DETAILS

- 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.

Sealed: 7/21/2023

FL #27401



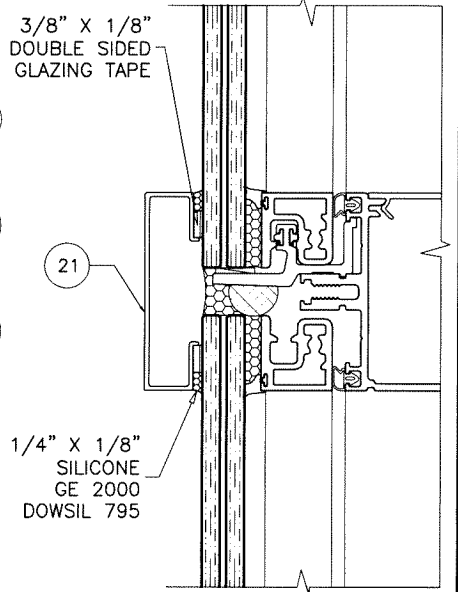
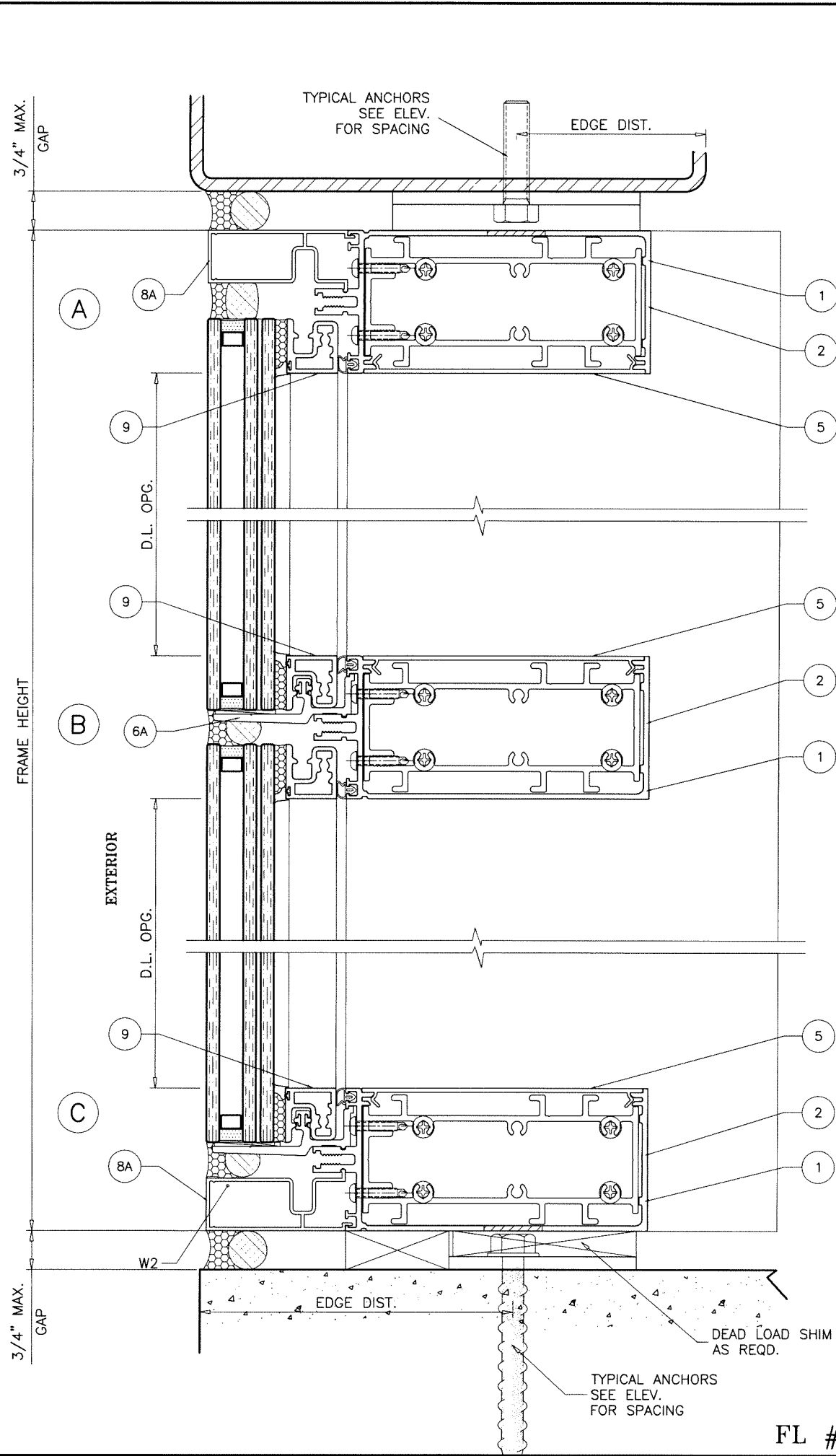
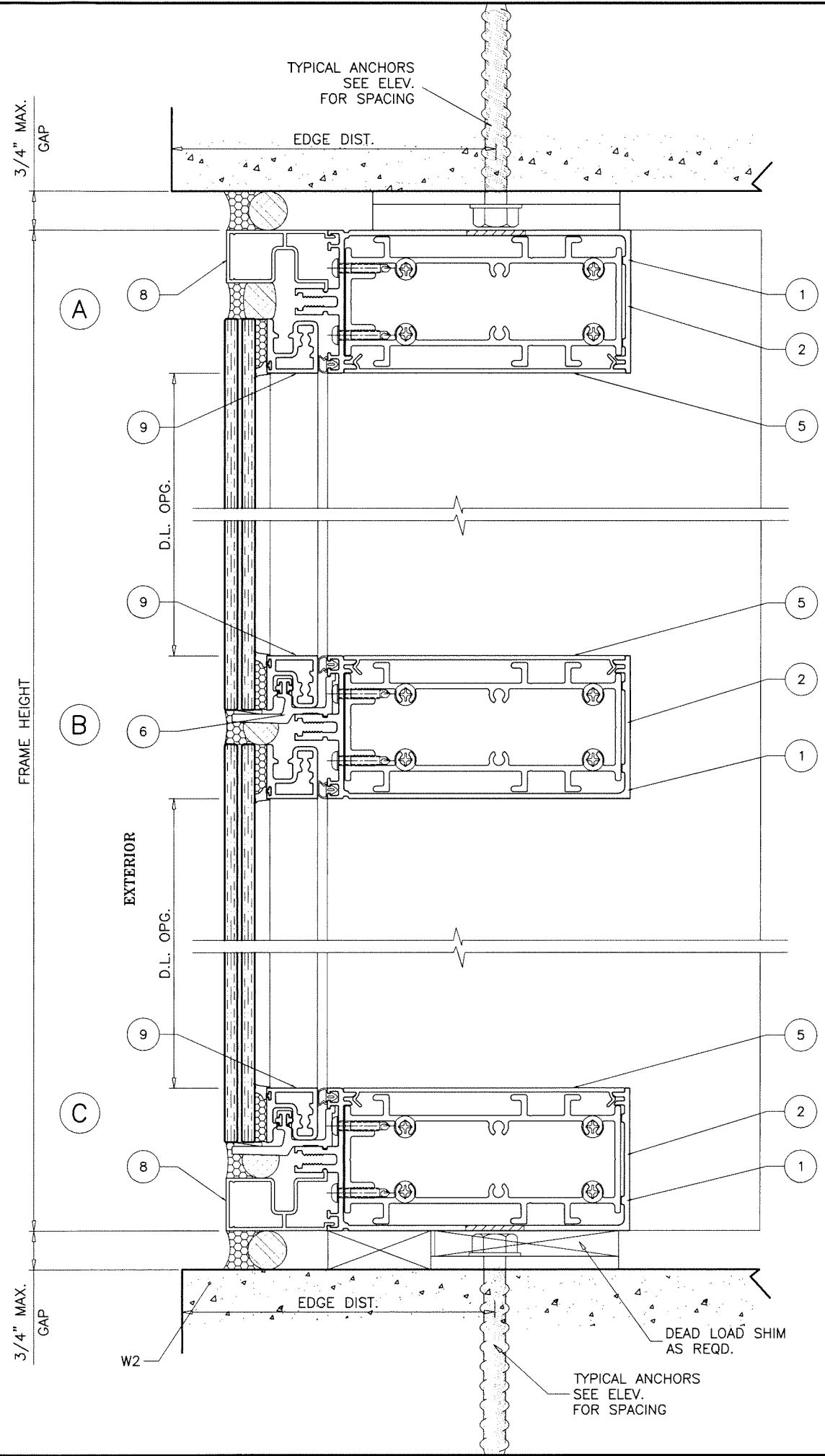
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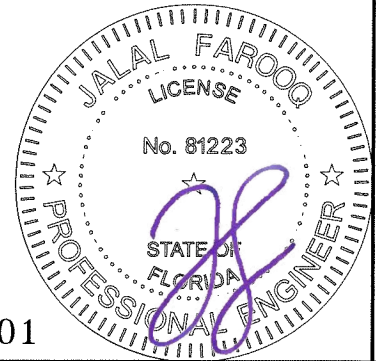
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sheet	8 of 21			



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afc

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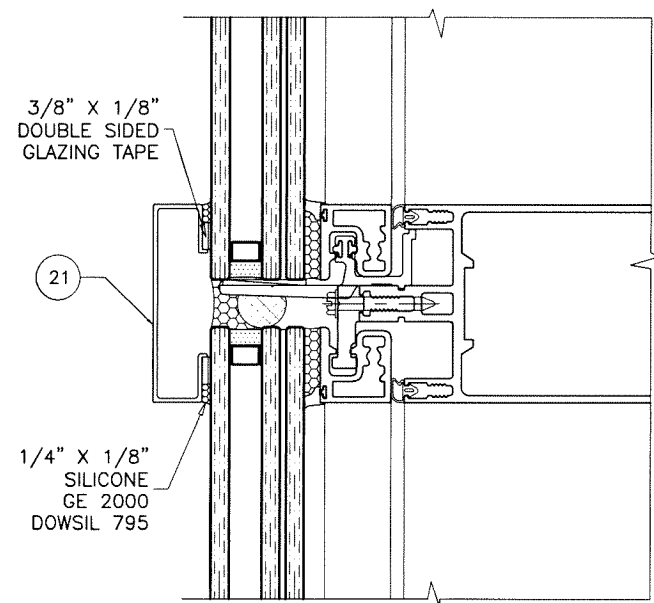
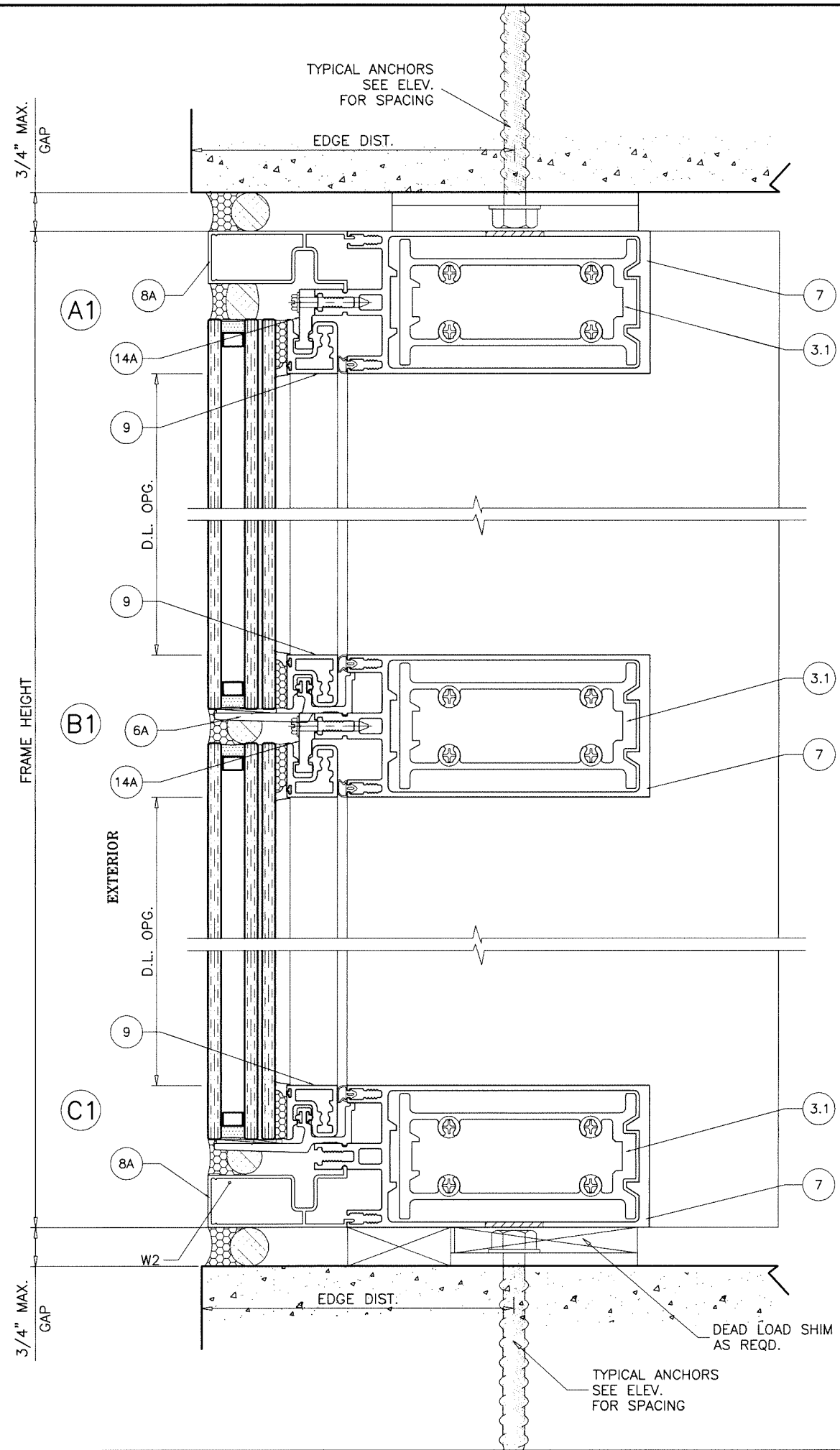
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Revisions:	
no	date by description

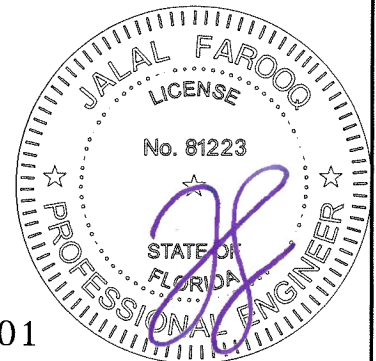
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 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:

drawing no. **19-18F**
 sheet 9 of 21



Sealed: 7/21/2023

FL #27401



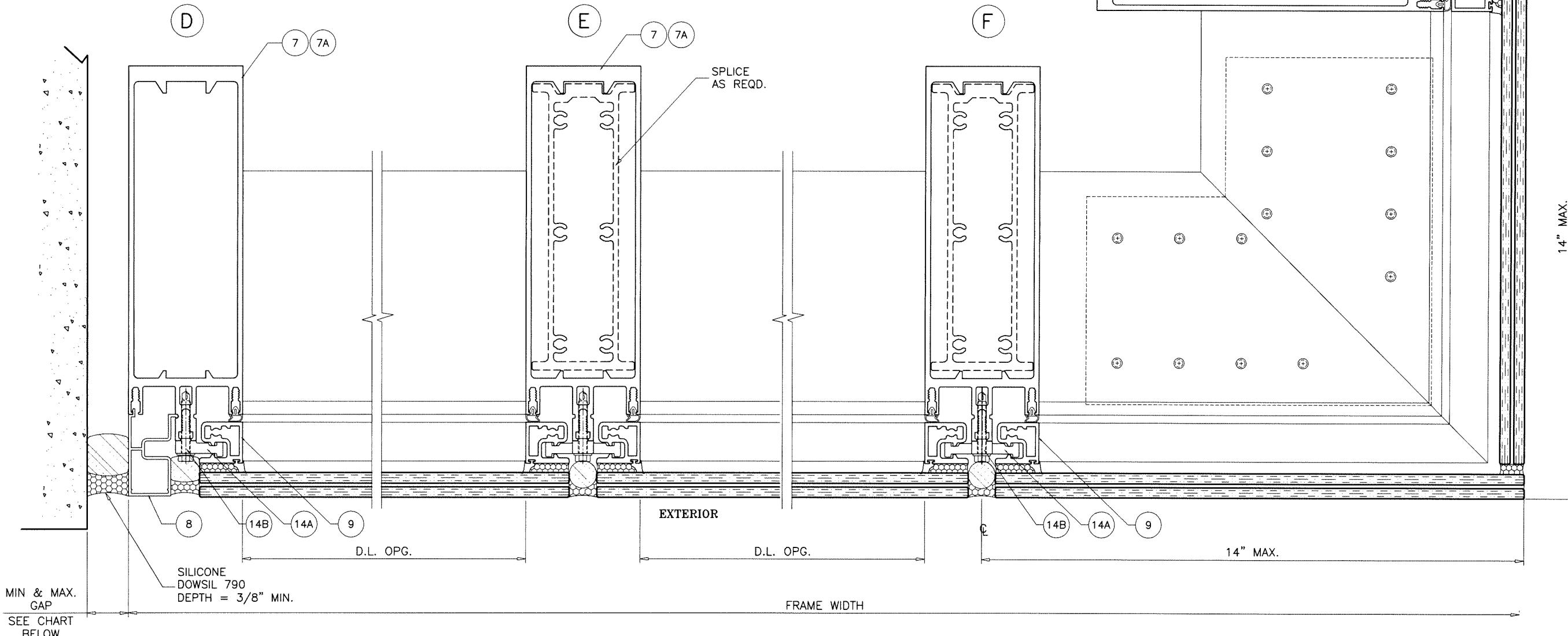
no	date	description

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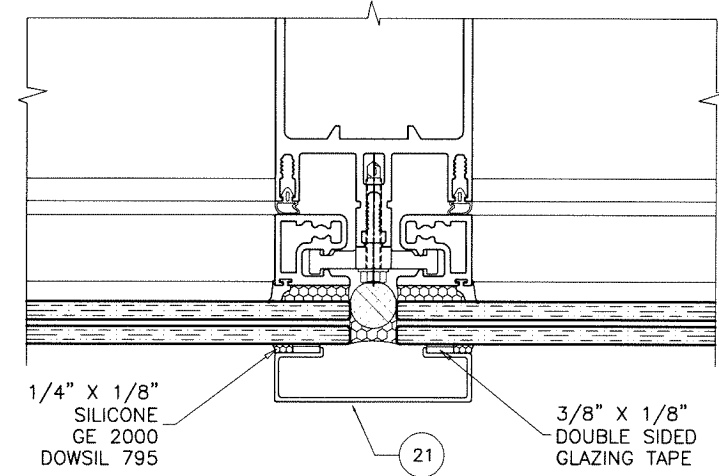


MIN & MAX. GAP
SEE CHART BELOW

SILICONE DOWSIL 790
DEPTH = 3/8" MIN.

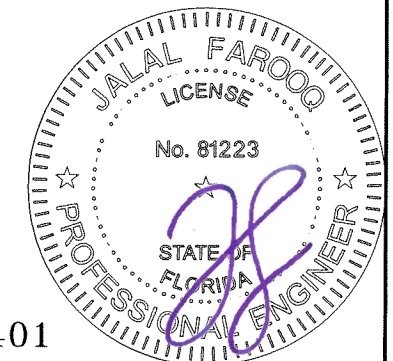
MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
180"	1/2"	3/4"
204"	5/8"	3/4"

NOTE:
MAX. MOVEMENT CONSIDERED=100% STRETCH.
PLEASE REFER TO SEALANT MANUFACTURER'S DATA AND APPLICATION MANUAL FOR COMPATABILITY OF SEALANT TO SUBSTRATE & 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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FL #27401



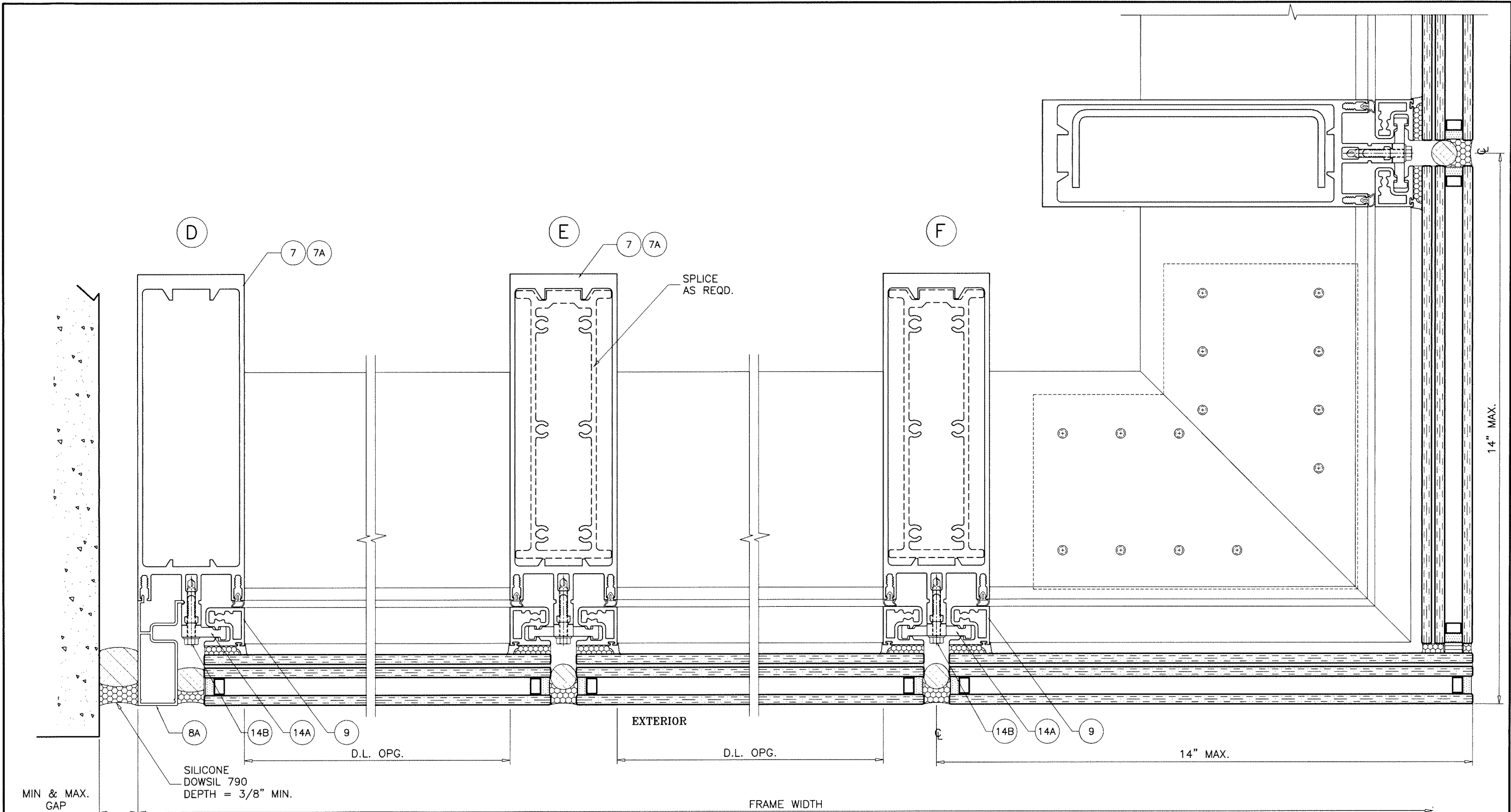
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 262-6978
FAX. (305) 262-6978
(C.A.N. 3538)

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:		by description	
no	date		

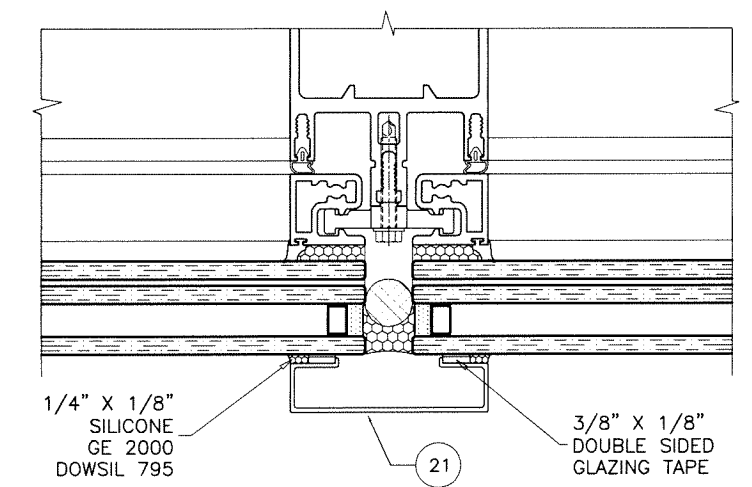
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scale: 3/8" = 1"
dr. by: TARIQ
chk. by:
drawing no. 19-18F
sheet 10 of 21

COMP-ANL \ 19-18F-MG



MIN & MAX.
GAP
SEE CHART
SHEET 8

SILICONE
DOWSIL 790
DEPTH = 3/8" MIN.

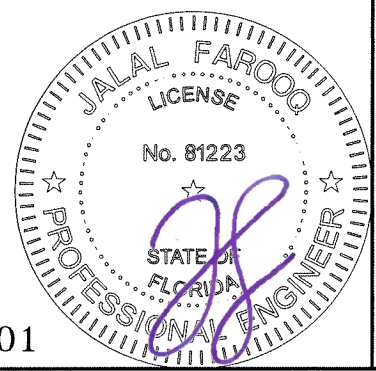


1/4" X 1/8"
SILICONE
GE 2000
DOWSIL 795

3/8" X 1/8"
DOUBLE SIDED
GLAZING TAPE

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COMP-ANL\19-18F-MG

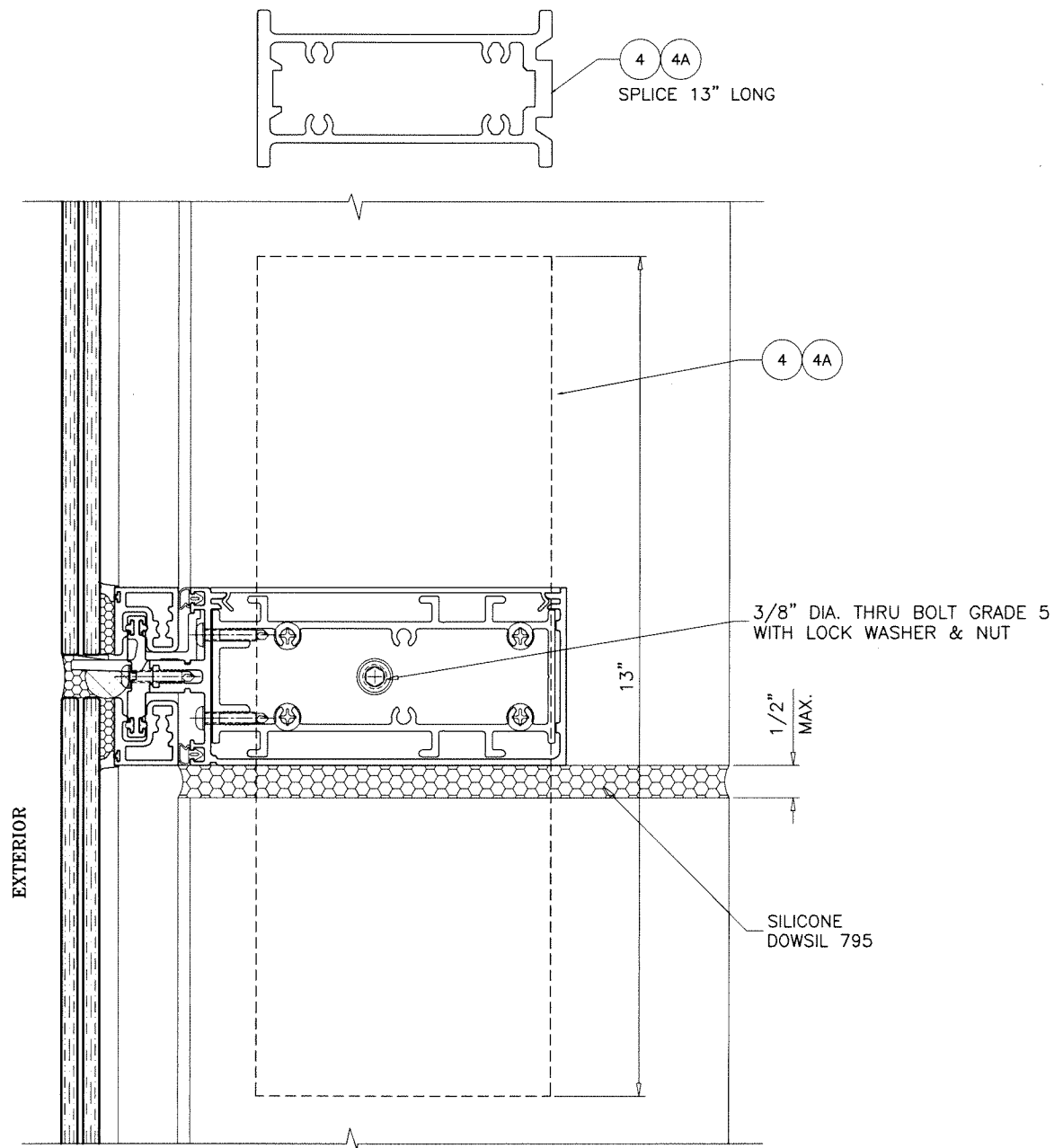
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revisions:	no	date	by	description

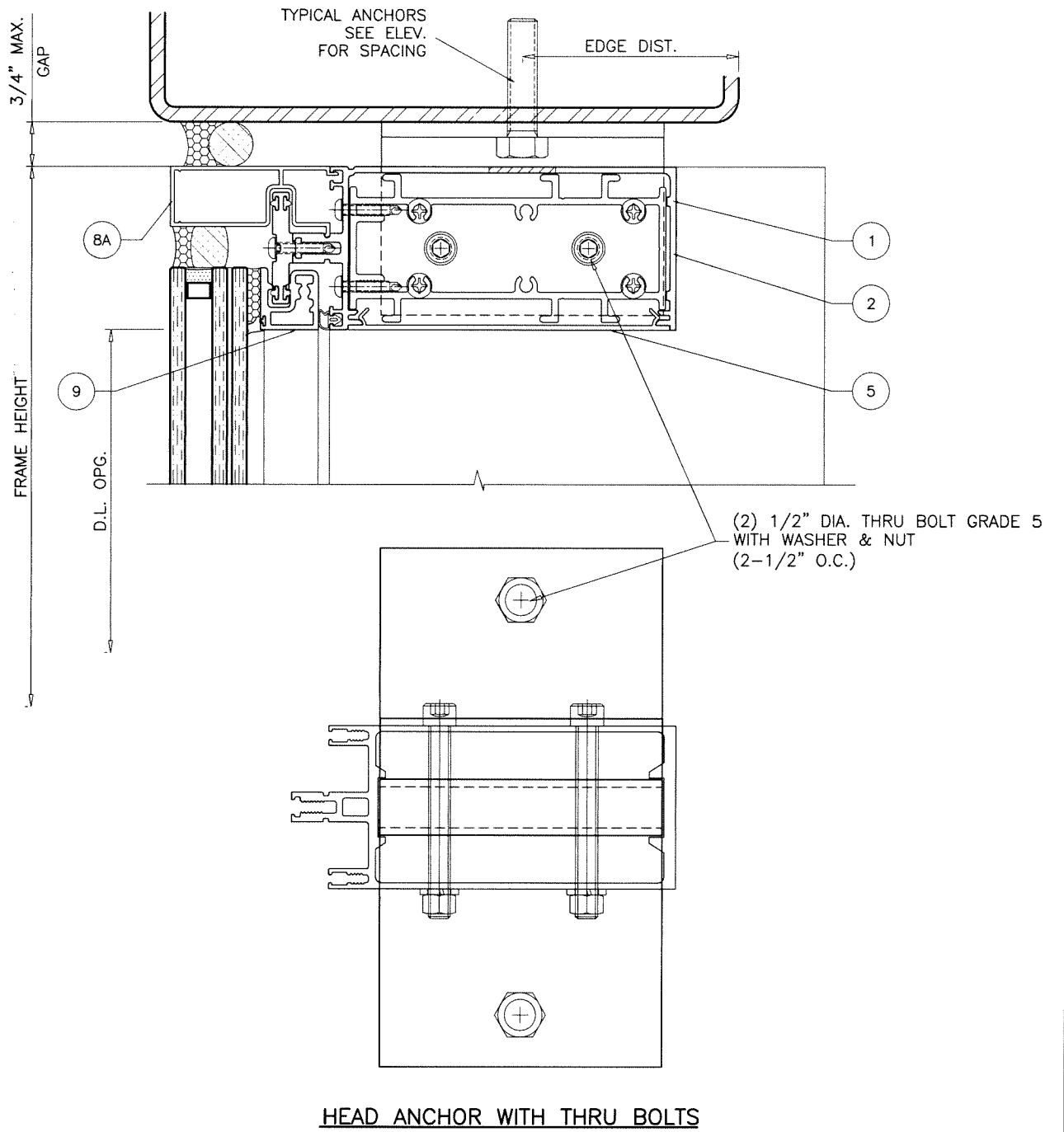
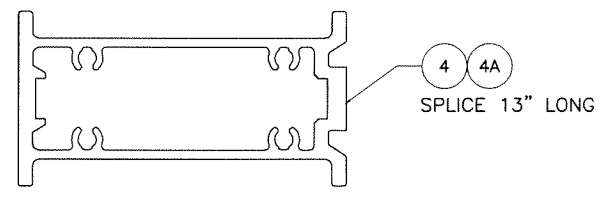
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dr. by: TARIQ
chk. by:

drawing no.
19-18F

sheet 11 of 21



EXPANSION JOINT DETAIL



HEAD ANCHOR WITH THRU BOLTS

Sealed: 7/21/2023

FL #27401



date:	03-15-19	scale:	3/8" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	19-18F		
sheet	11.1 of 21		

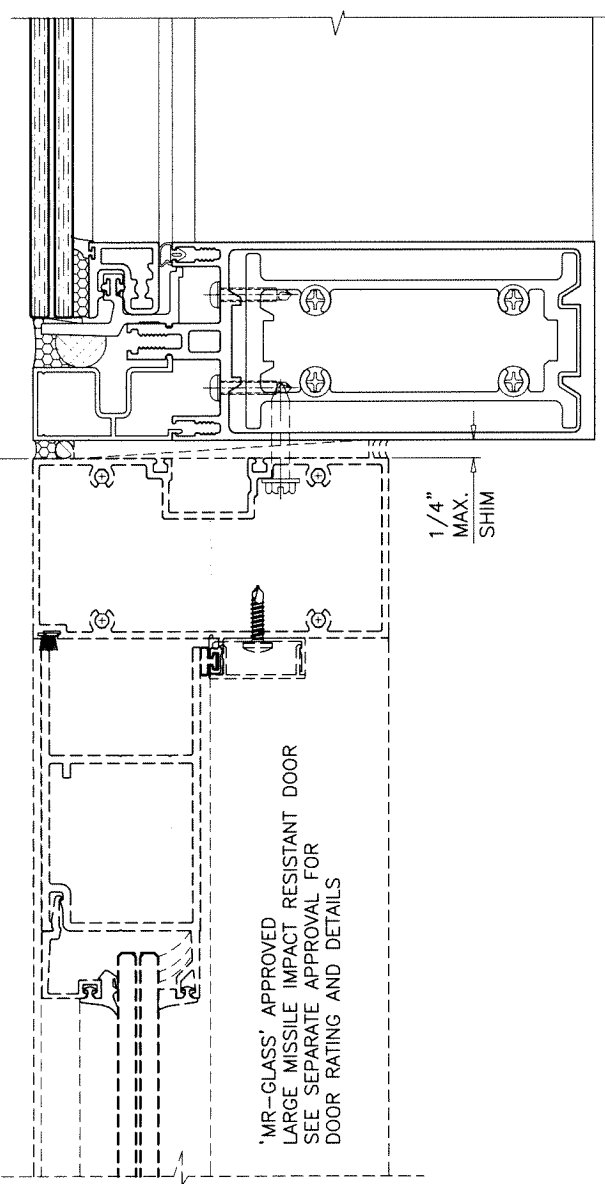
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)
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G

120" MAX.
DOOR HEIGHT

EXTERIOR



1/4"
MAX.
SHIM

H

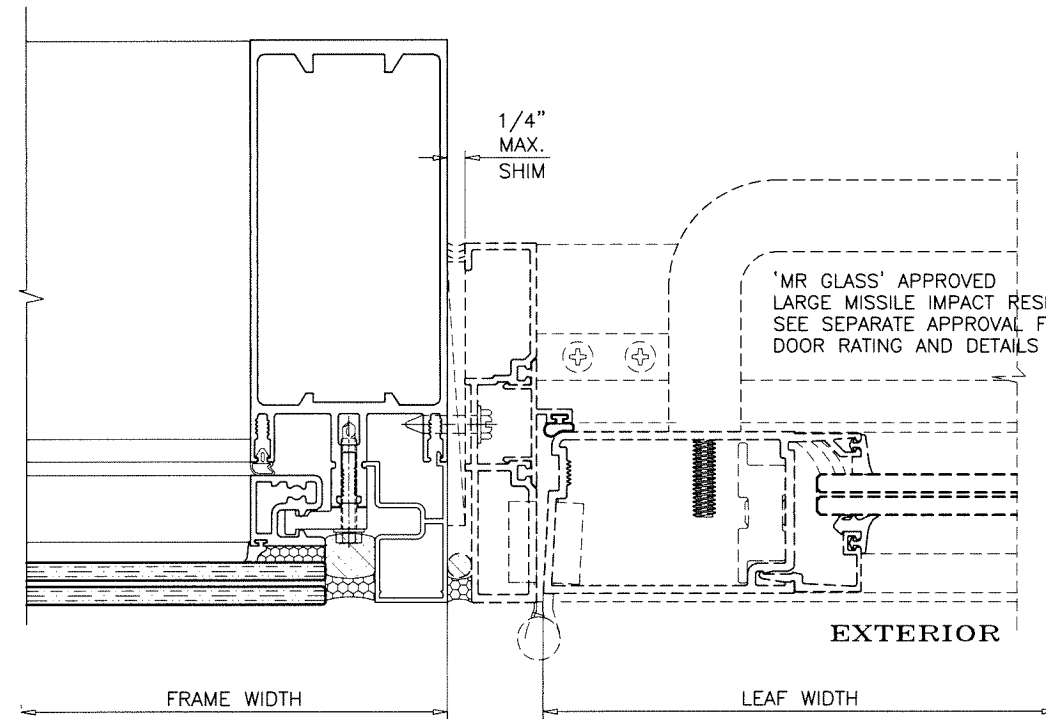
1/4"
MAX.
SHIM

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

EXTERIOR

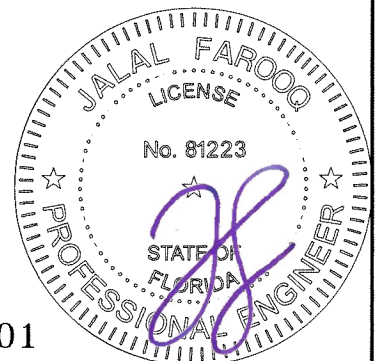
FRAME WIDTH

LEAF WIDTH



Sealed: 7/21/2023

FL #27401



revisions:

no	date	by	description

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 chk. by:

drawing no.
19-18F
 sheet 12 of 21

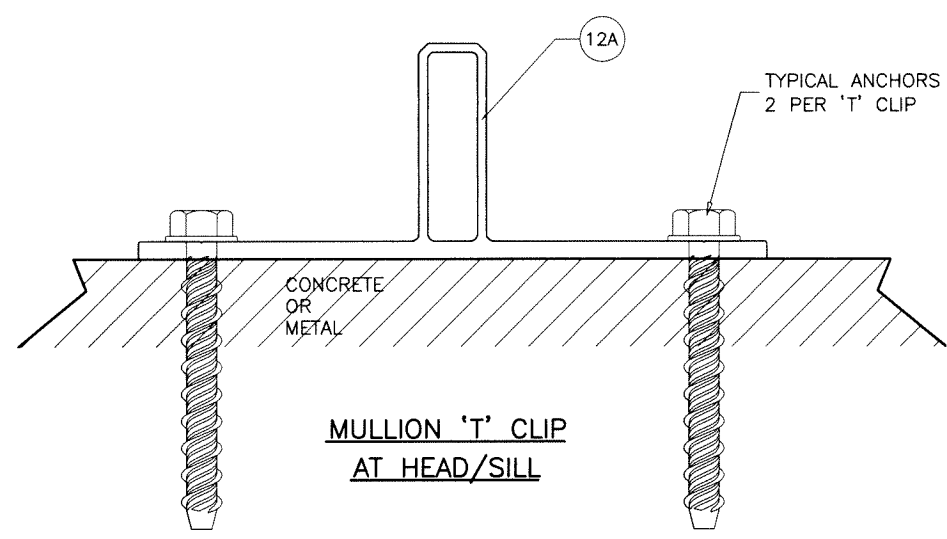
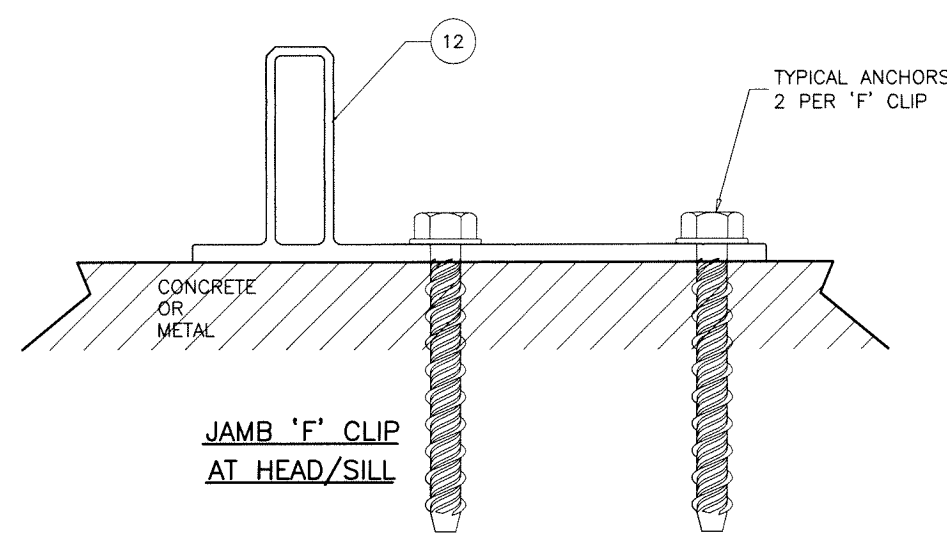
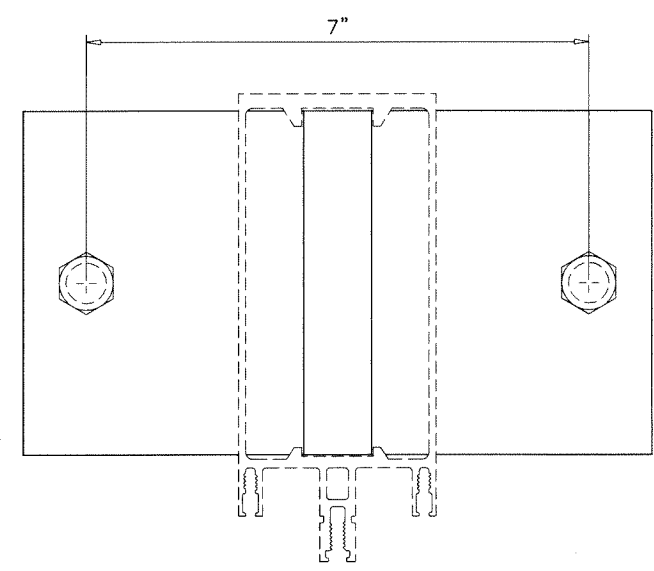
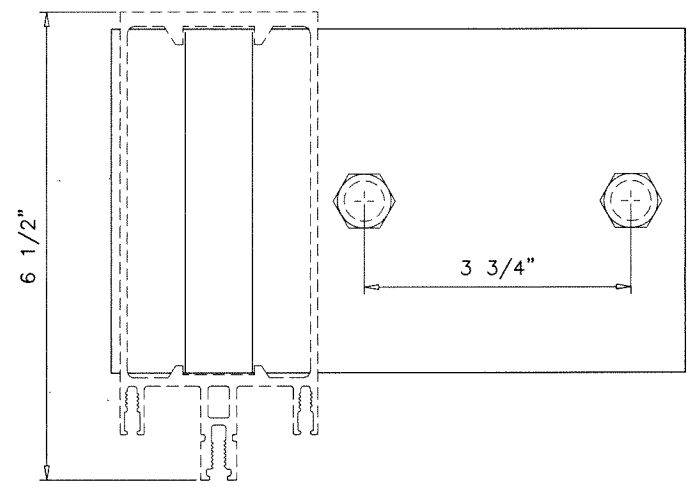
SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)

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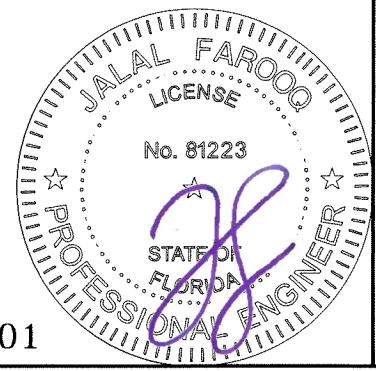
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
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COMP-ANL\19-18F-MG



ANCHORS TYPE 'A'



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FL #27401

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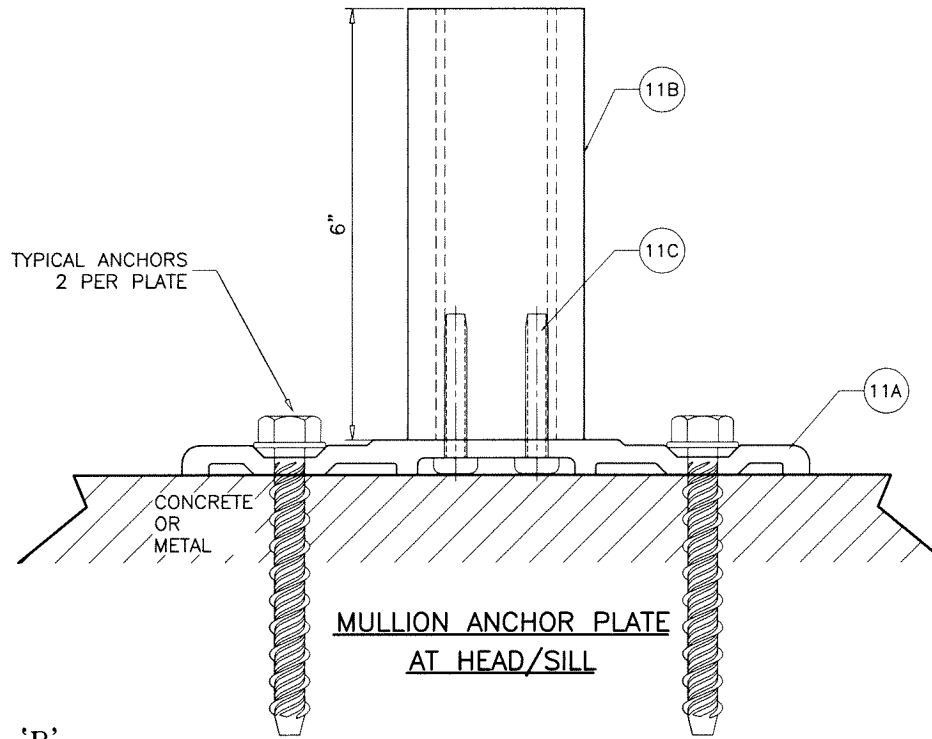
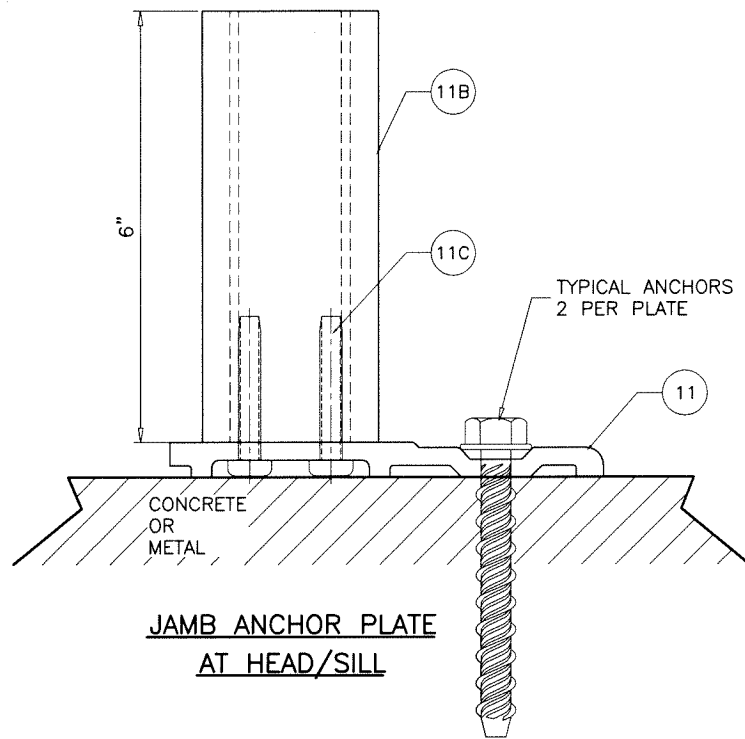
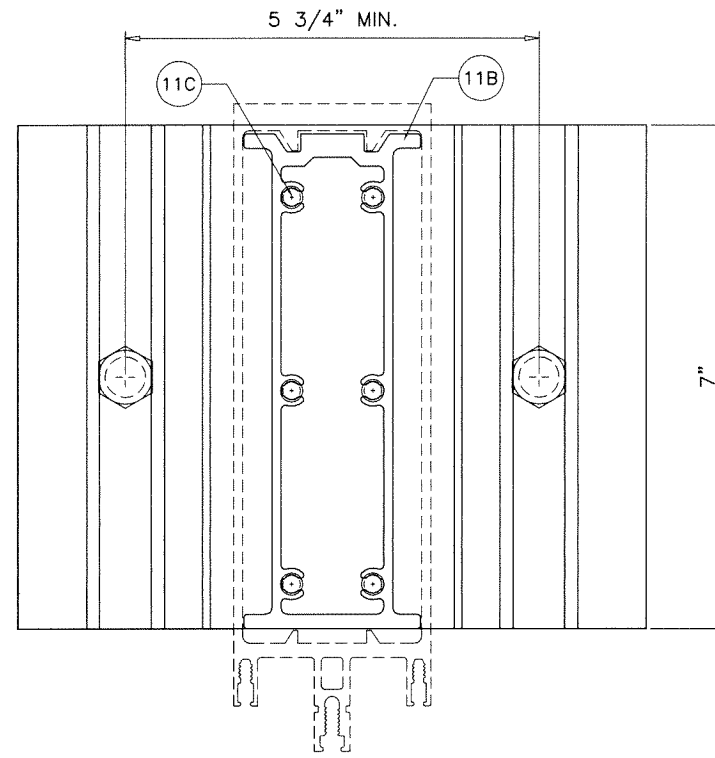
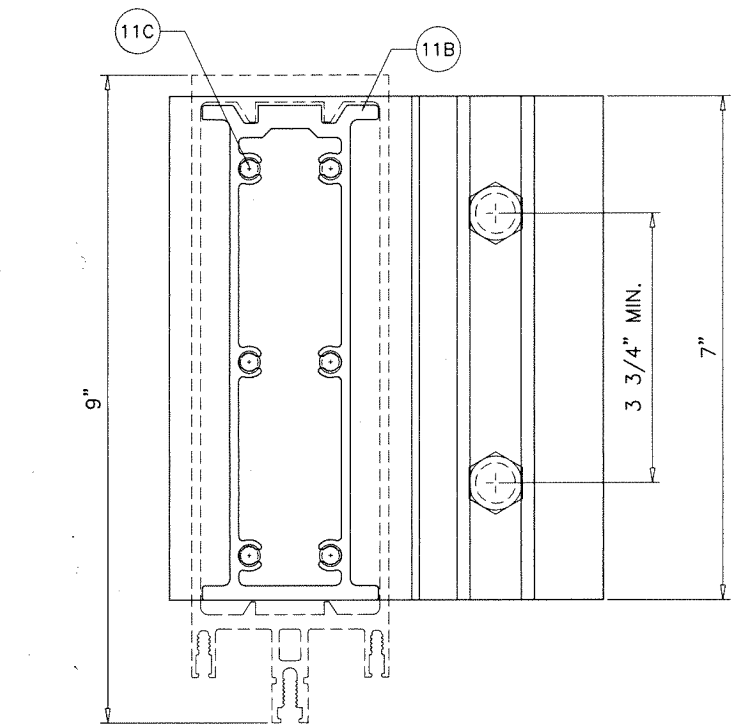
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 scale: 3/8" = 1"
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 chk. by:

drawing no.
19-18F

sheet 13 of 21

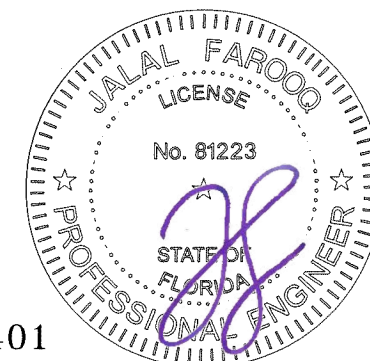
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ANCHORS TYPE 'B'

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FL #27401



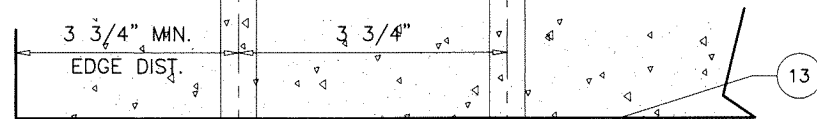
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AL-FAROOQ CORPORATION
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revisions:	
no	date by description

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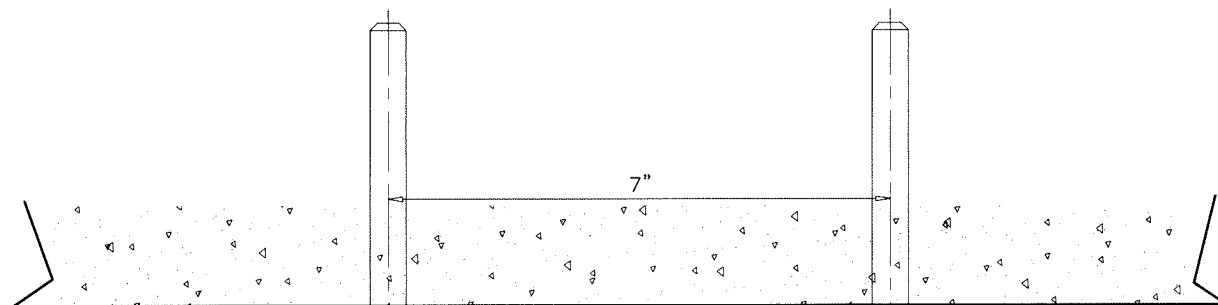
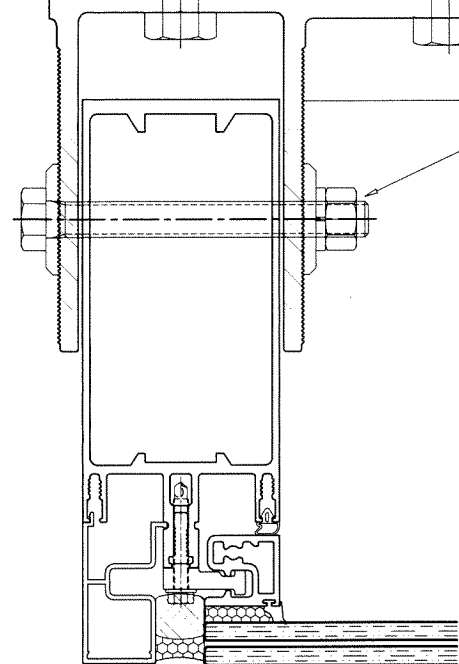
drawing no.
19-18F
 sheet 14 of 21



(2) 1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT
(3" O.C.)

**JAMB
ANCHOR TYPE '1'**
WIND LOAD ≤ 2520 LBS (4000 PSI CONC.)
WIND LOAD ≤ 3180 LBS (6000 PSI CONC.)
DEAD LOAD ≤ 500 LBS

$$\text{JAMB DEAD LOAD} = \frac{\text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)}}{2} \times 13 \text{ PSF}$$

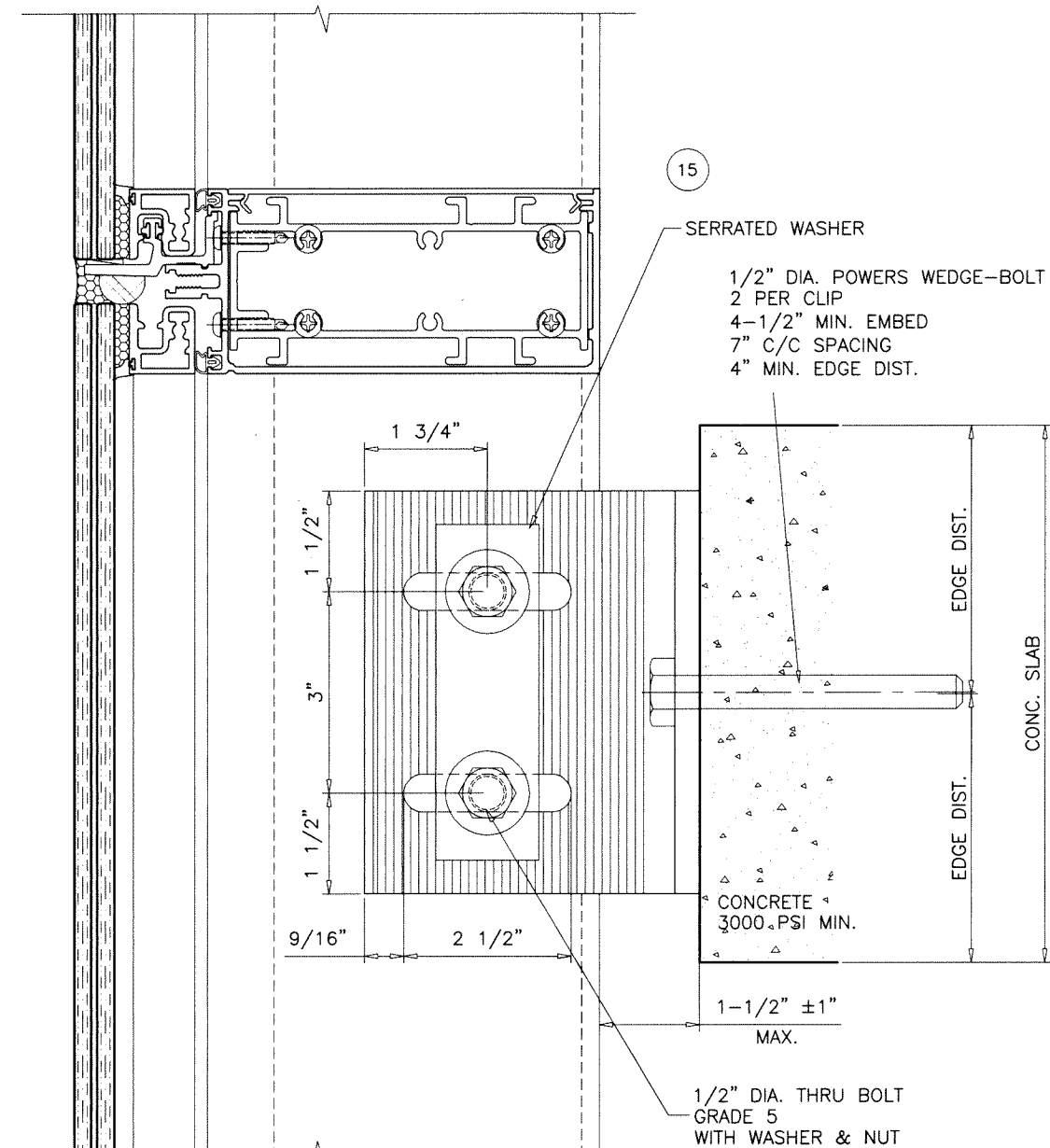
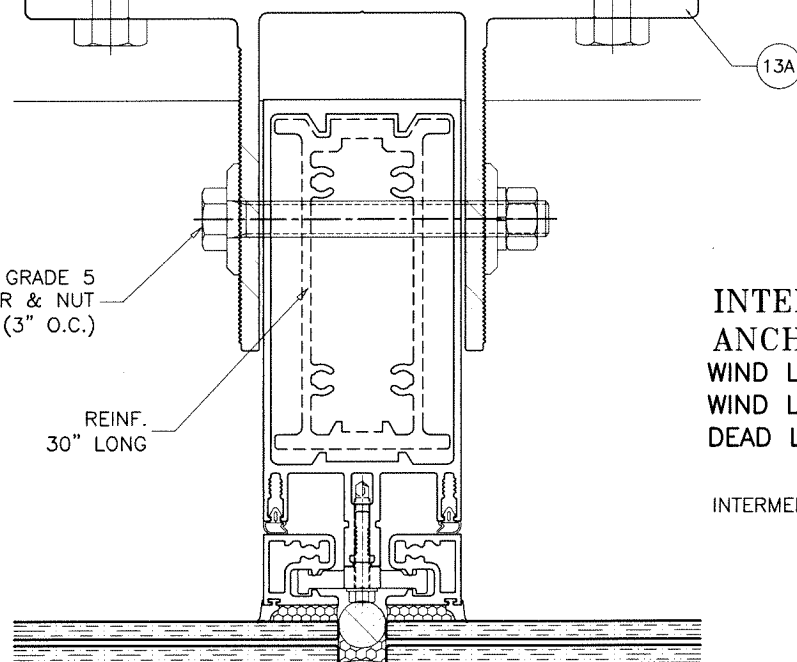


(2) 1/2" DIA. THRU BOLT GRADE 5
WITH WASHER & NUT
(3" O.C.)

REINF.
30" LONG

**INTERMEDIATE
ANCHOR TYPE '1'**
WIND LOAD ≤ 3000 LBS (4000 PSI CONC.)
WIND LOAD ≤ 3840 LBS (6000 PSI CONC.)
DEAD LOAD ≤ 1000 LBS

$$\text{INTERMEDIATE DEAD LOAD} = \text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)} \times 13 \text{ PSF}$$

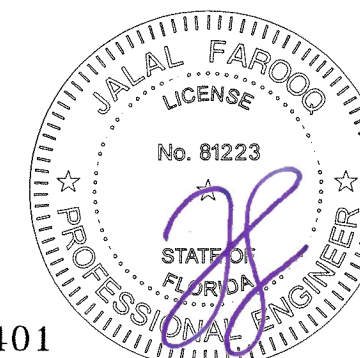


INTERMEDIATE ANCHORS

DEAD LOAD ANCHOR

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FL #27401



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revisions:	no	date	by	description

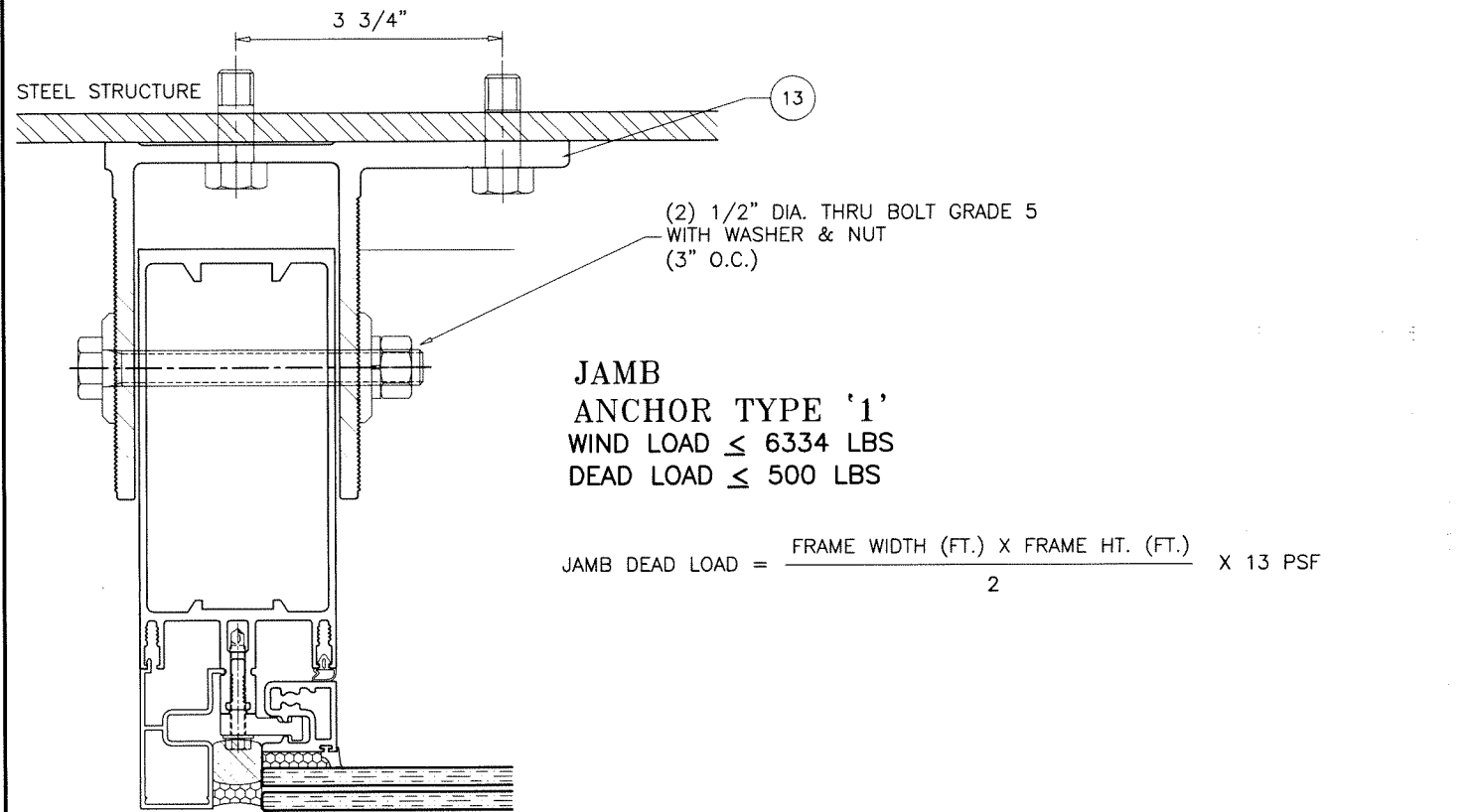
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dr. by: TARIQ
chk. by:

drawing no.

19-18F

sheet 15 of 21

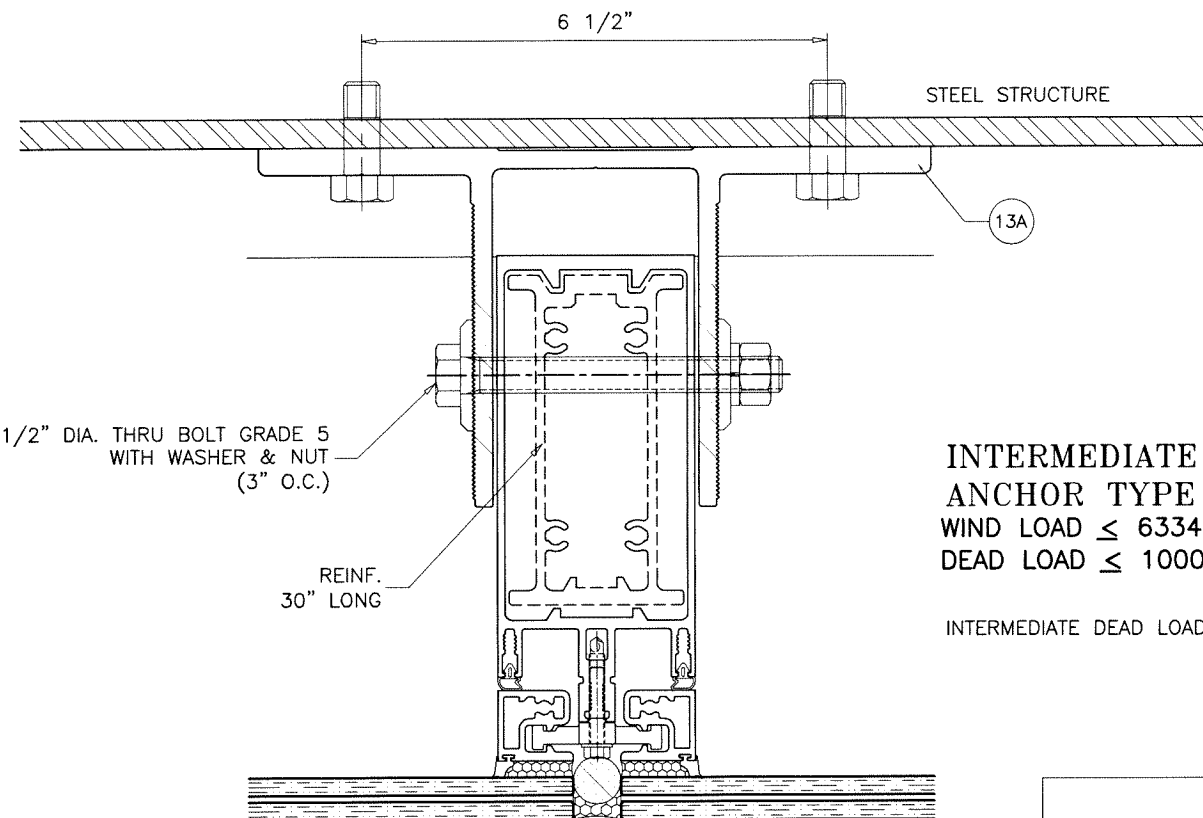
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(2) 1/2" DIA. THRU BOLT GRADE 5 WITH WASHER & NUT (3" O.C.)

JAMB ANCHOR TYPE '1'
 WIND LOAD ≤ 6334 LBS
 DEAD LOAD ≤ 500 LBS

$$\text{JAMB DEAD LOAD} = \frac{\text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)}}{2} \times 13 \text{ PSF}$$



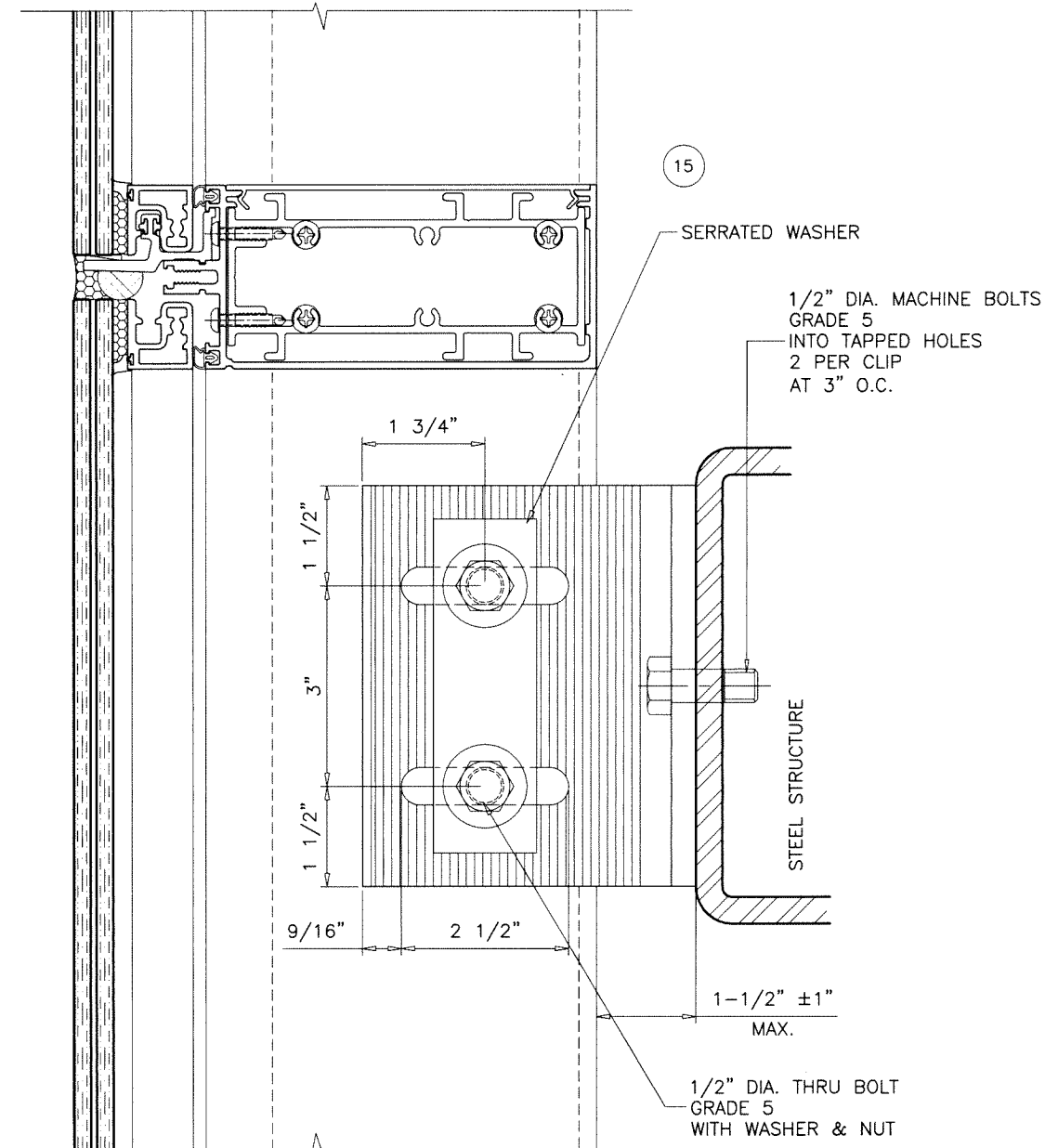
(2) 1/2" DIA. THRU BOLT GRADE 5 WITH WASHER & NUT (3" O.C.)

REINF. 30" LONG

INTERMEDIATE ANCHOR TYPE '1'
 WIND LOAD ≤ 6334 LBS
 DEAD LOAD ≤ 1000 LBS

$$\text{INTERMEDIATE DEAD LOAD} = \text{FRAME WIDTH (FT.)} \times \text{FRAME HT. (FT.)} \times 13 \text{ PSF}$$

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



SERRATED WASHER

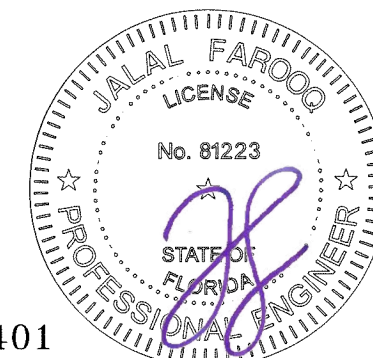
1/2" DIA. MACHINE BOLTS GRADE 5 INTO TAPPED HOLES 2 PER CLIP AT 3" O.C.

INTERMEDIATE ANCHORS

1/2" DIA. THRU BOLT GRADE 5 WITH WASHER & NUT

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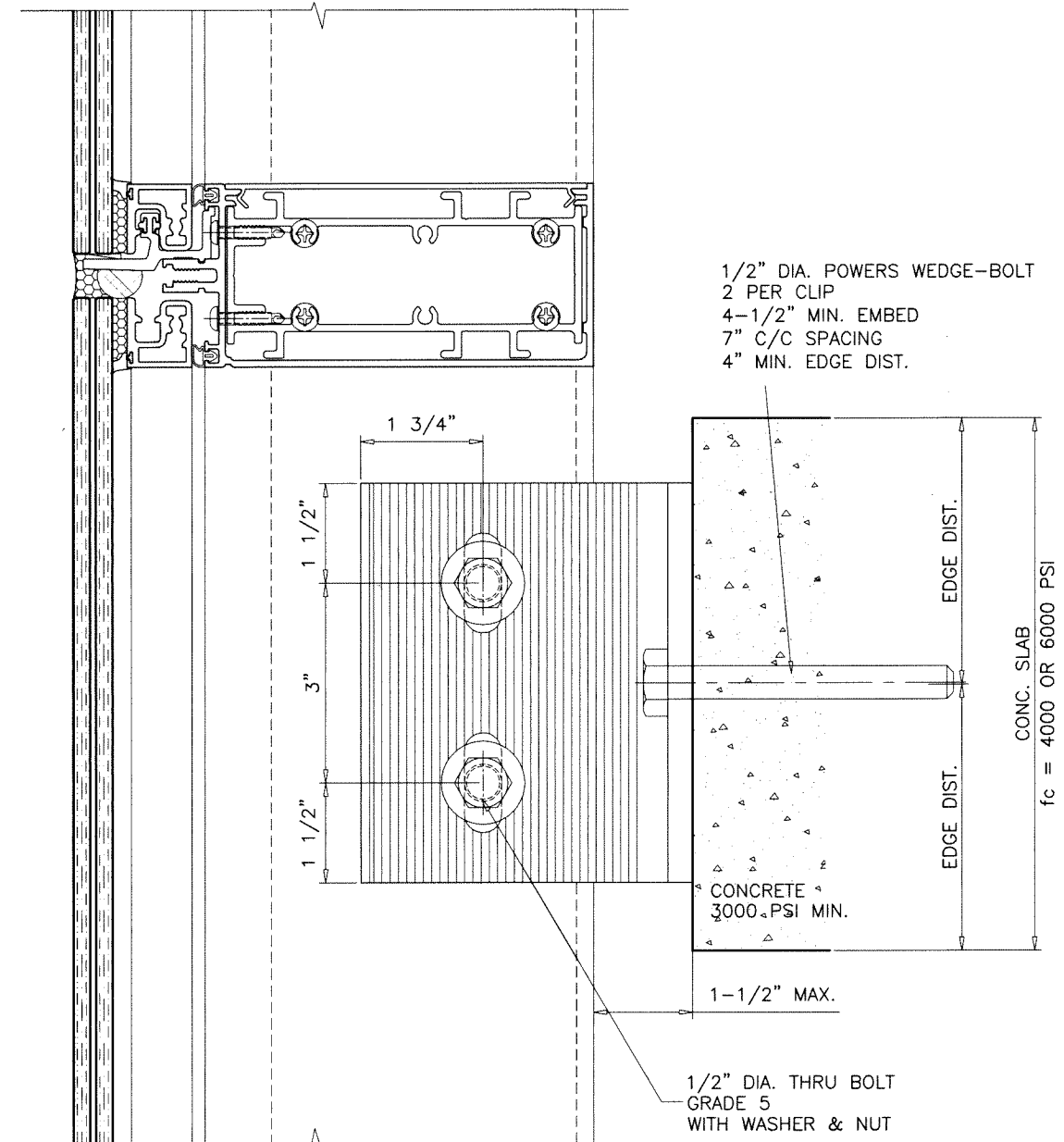
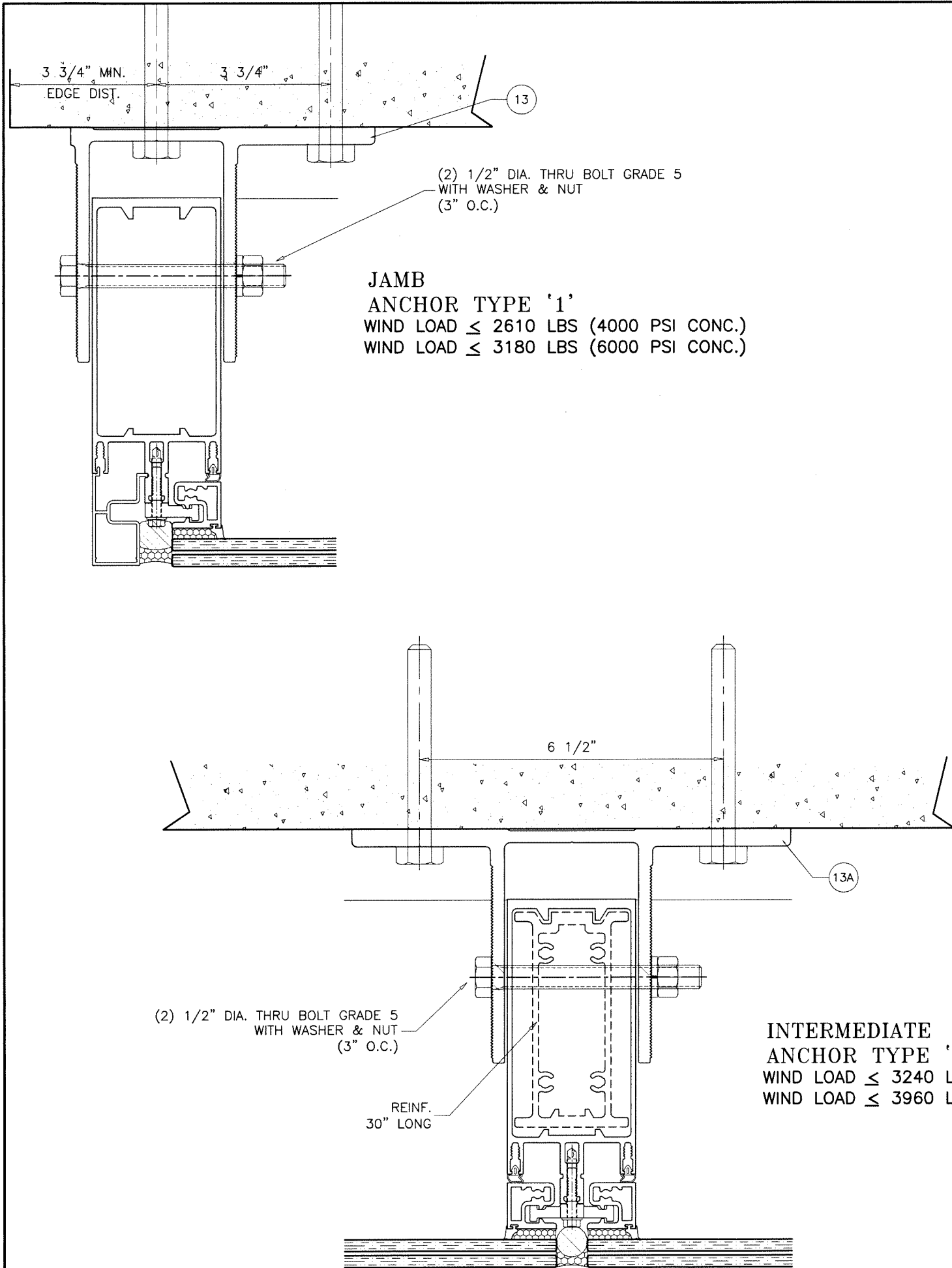
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 chk. by:

drawing no.

19-18F

sheet 16 of 21

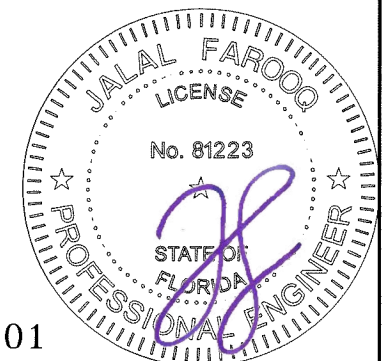


INTERMEDIATE ANCHORS

WIND LOAD ANCHOR

Sealed: 7/21/2023

FL #27401



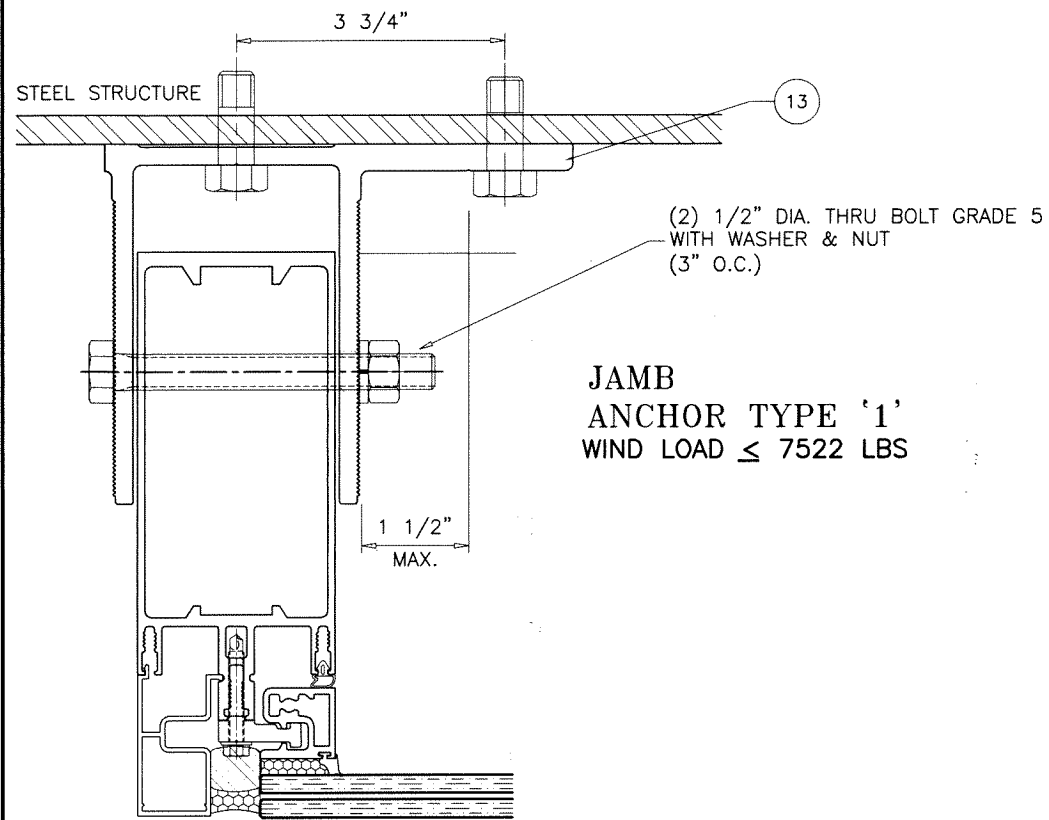
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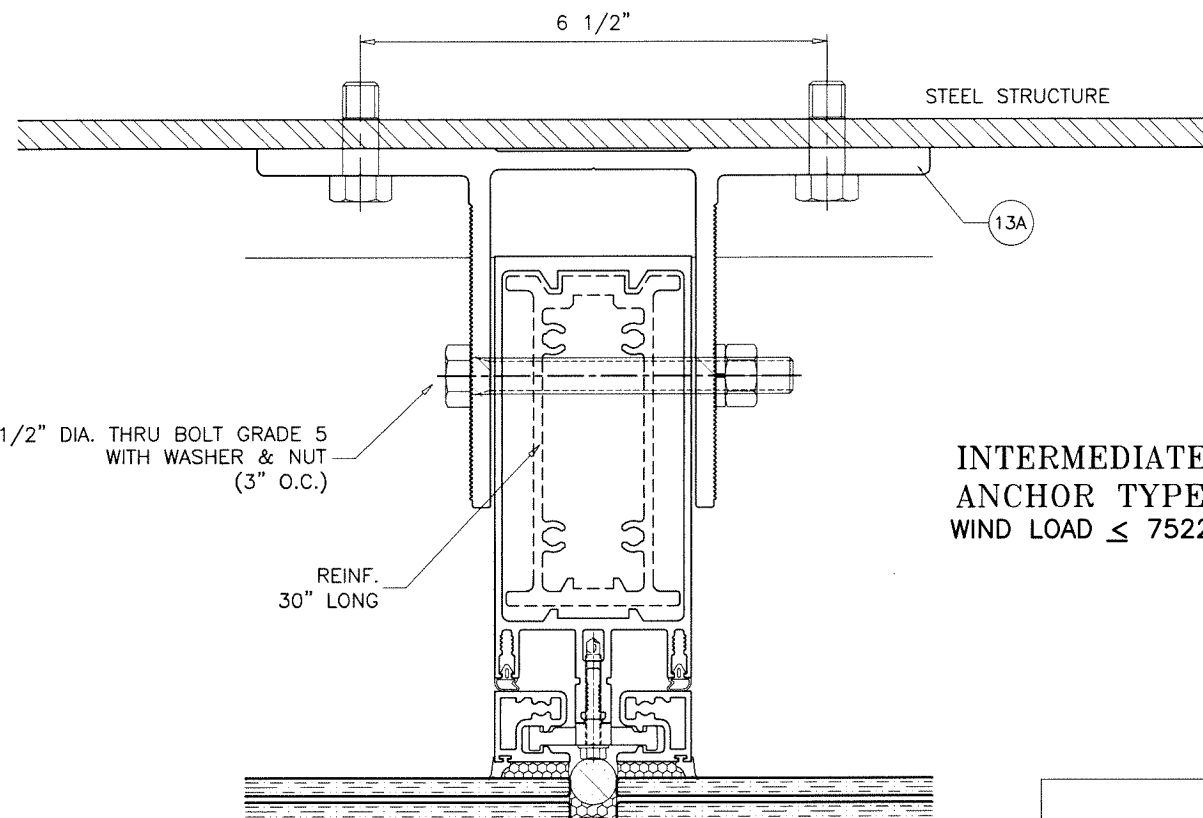
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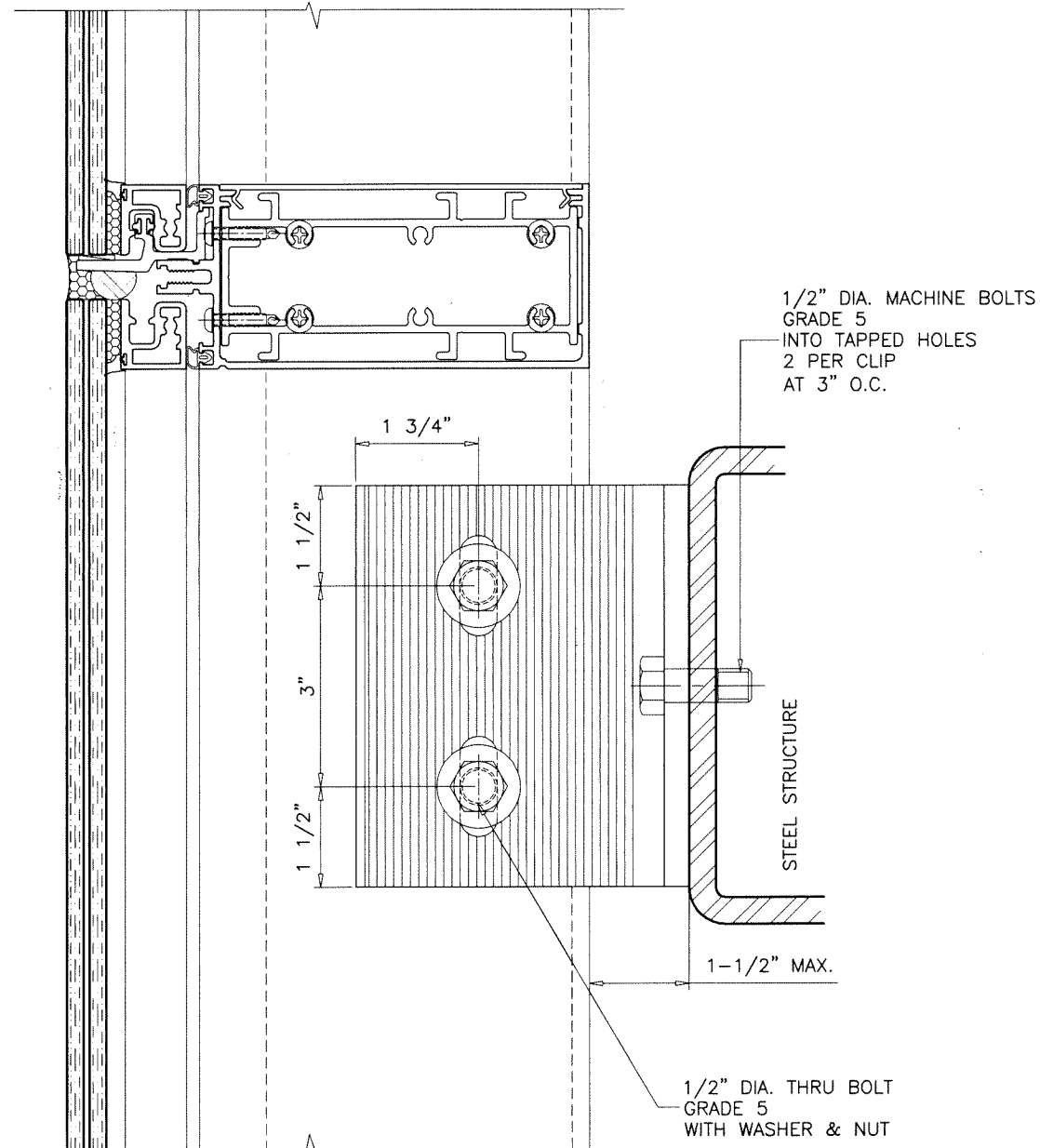
drawing no.
19-18F
sheet 17 of 21



**JAMB
ANCHOR TYPE '1'**
WIND LOAD \leq 7522 LBS



**INTERMEDIATE
ANCHOR TYPE '1'**
WIND LOAD \leq 7522 LBS

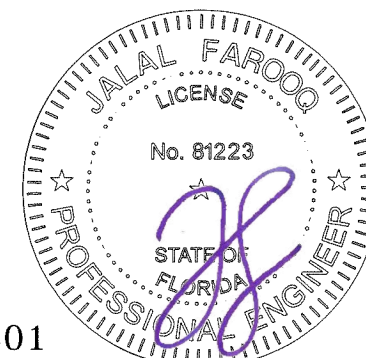


INTERMEDIATE ANCHORS

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

Sealed: 7/21/2023

FL #27401



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sheet 18 of 21

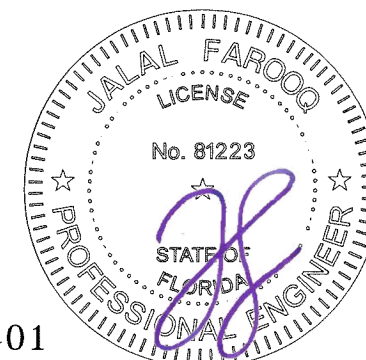
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	E-2007	AS REQD.	FRAME HEAD/SILL/HORIZONTAL	6063-T6	-
2	E-2010	AS REQD.	SHEAR BLOCK, 7/8" LONG, SPLICE	6063-T6	-
2A	#12 1-1/4"	4/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	PH SELF DRILLING
2B	#10 X 3/4"	2/ BLOCK	SHEAR BLOCK FASTENERS	ST. STEEL	PH SELF DRILLING
3	E-2022	AS REQD.	REINF. SPLICE (LENGTH = 30")	6063-T6	-
3'	E-2022	AS REQD.	MULLION REINF. (FULL LENGTH)	6063-T6	-
3A	E-2021	AS REQD.	JAMB/REINFORCEMENT (LENGTH = 30")	6063-T6	-
3C	-	AS REQD.	REINF. SPLICE (LENGTH = 30")	STEEL	A36, Fu MIN. 58 KSI
3C'	-	AS REQD.	MULLION REINF. (FULL LENGTH)	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
21	-	AS REQD.	DECORATIVE CAP	6063-T5	-

SEALANTS:

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

Sealed: 7/21/2023

FL #27401



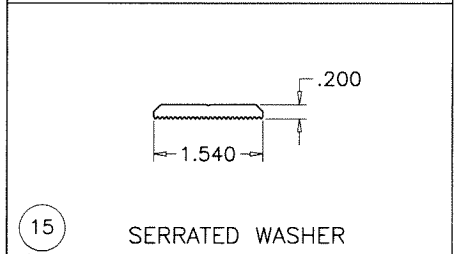
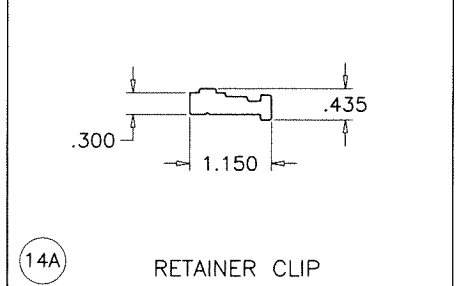
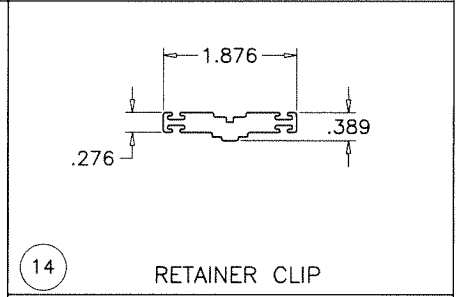
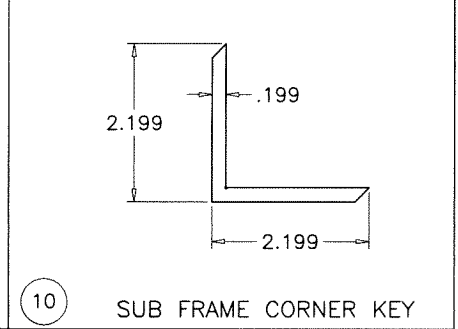
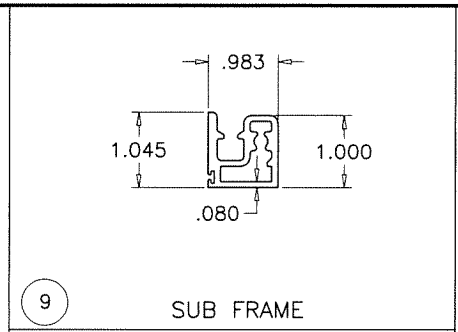
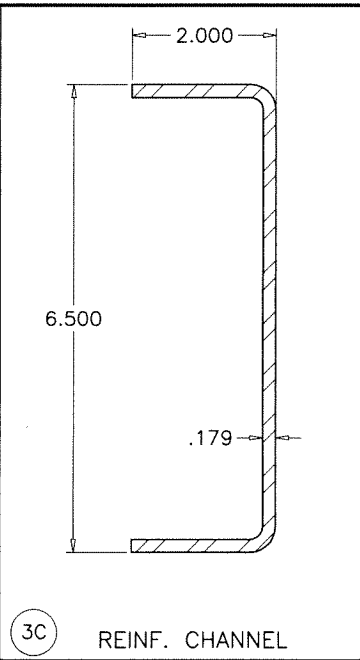
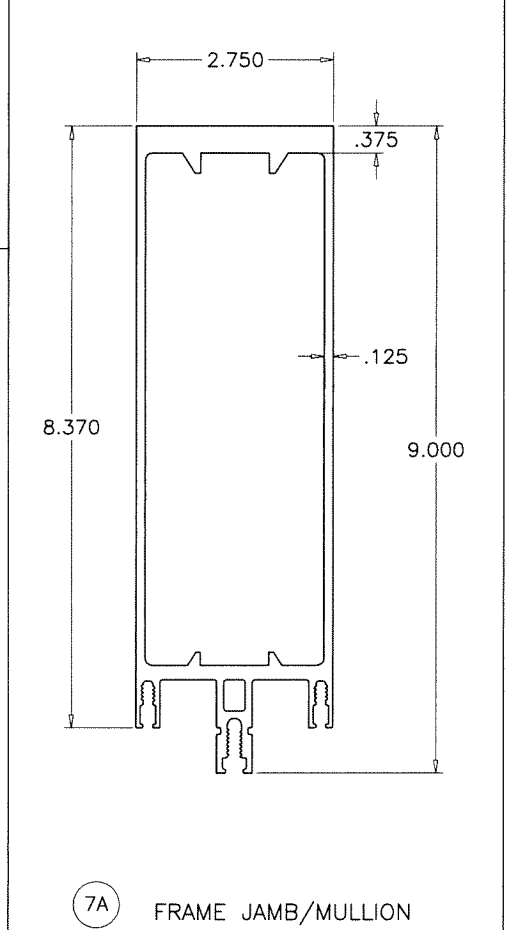
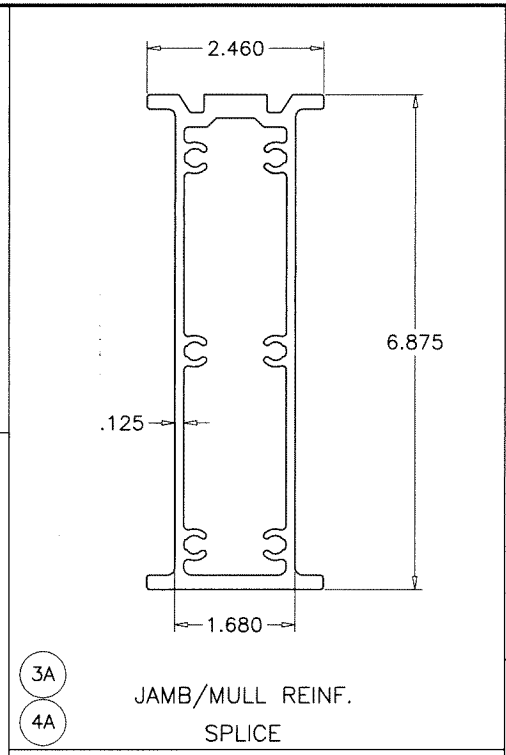
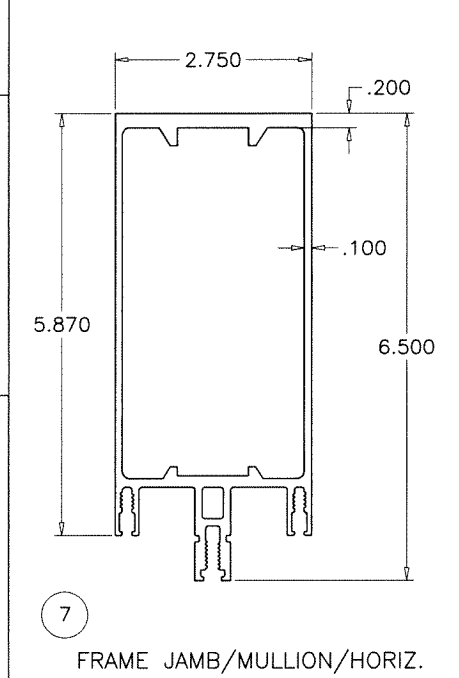
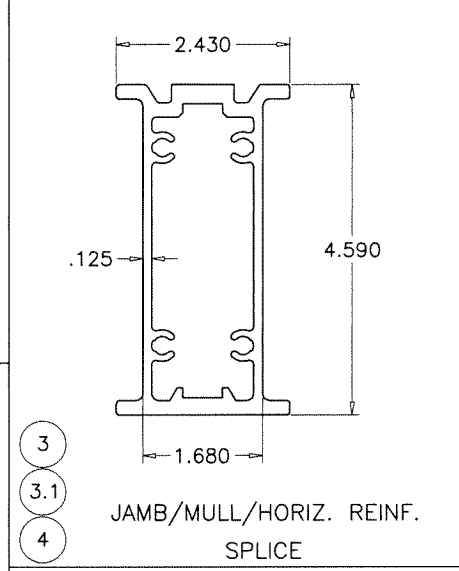
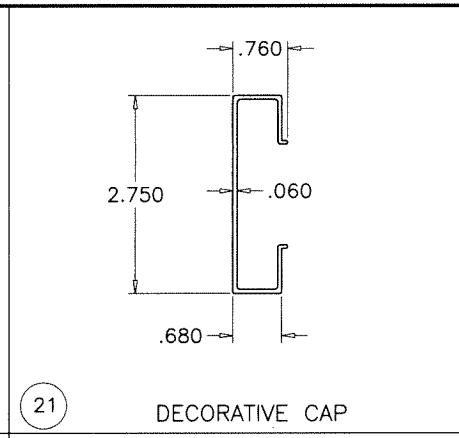
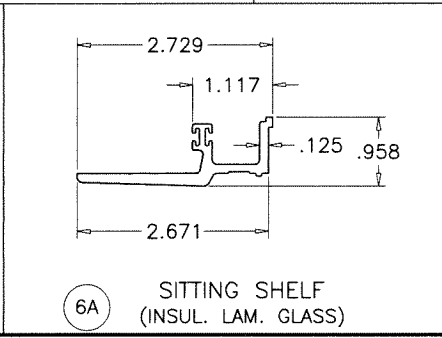
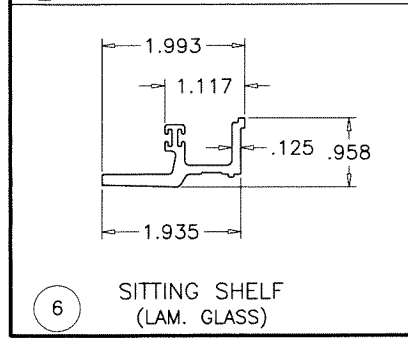
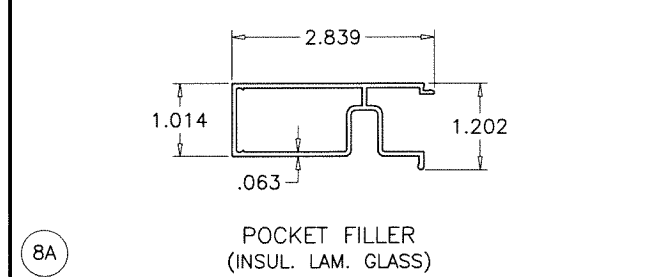
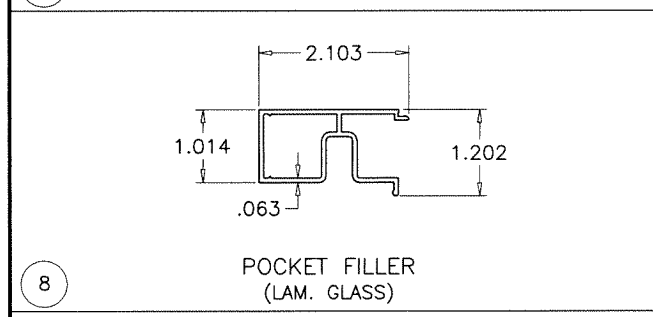
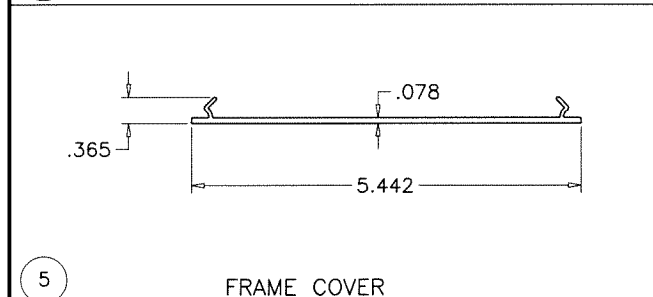
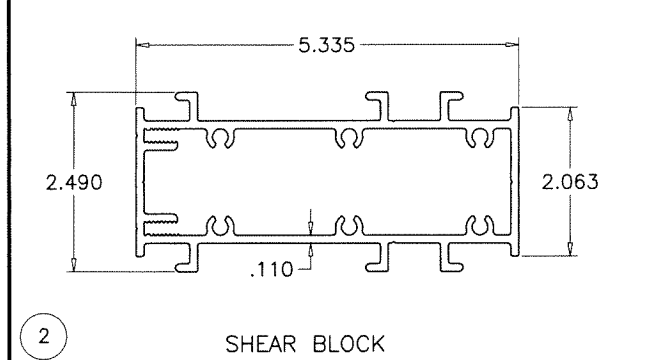
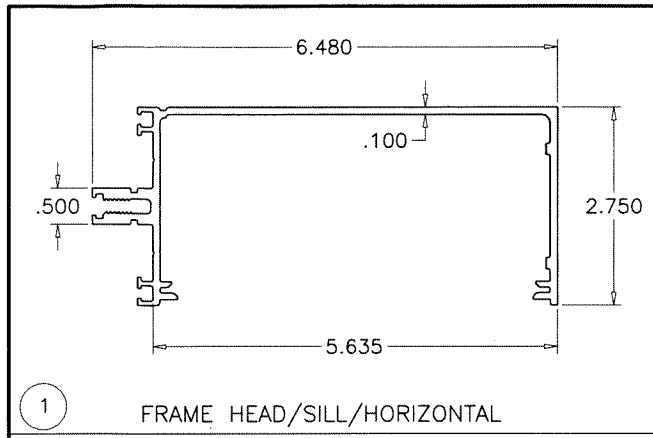
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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173 (C.A.N. 3538)
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\19-18F-MG

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

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 chk. by:

drawing no.
19-18F
 sheet 19 of 21



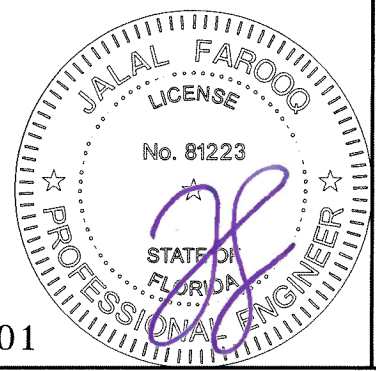
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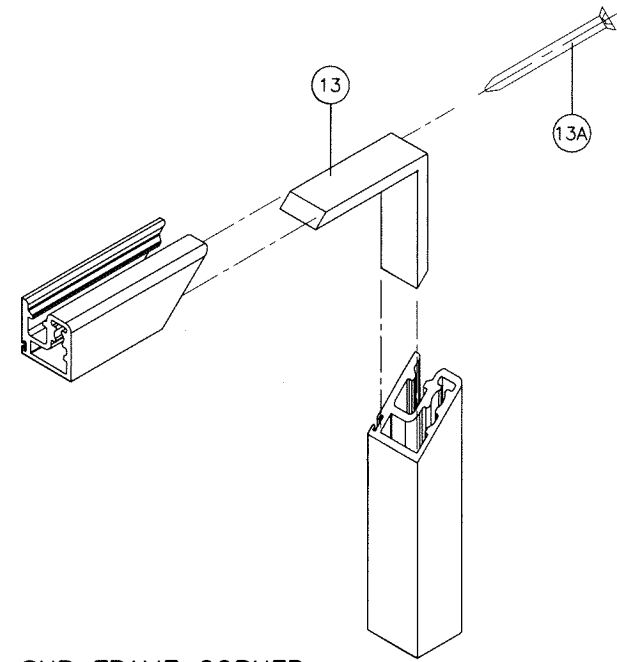
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 sheet 20 of 21

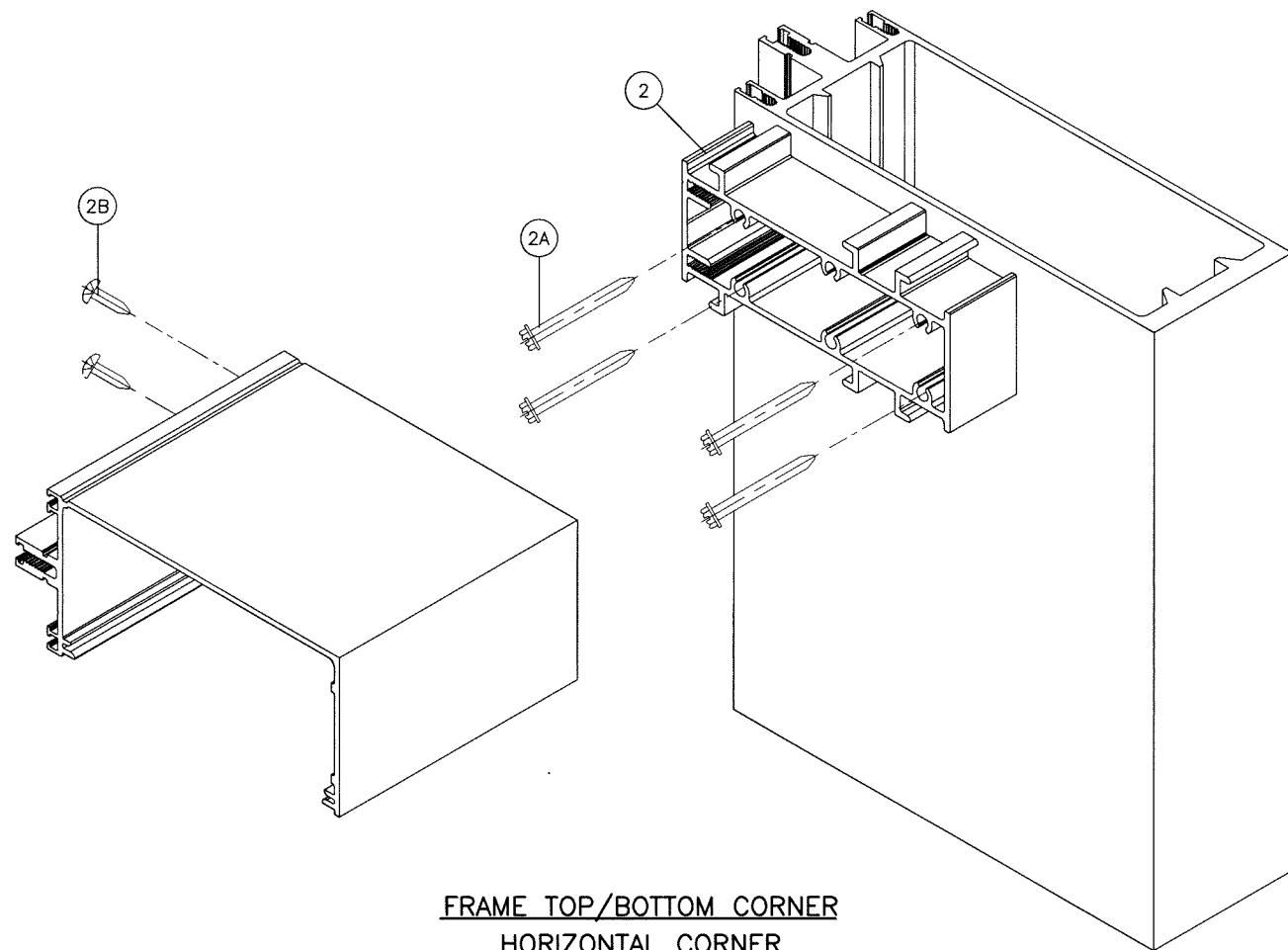


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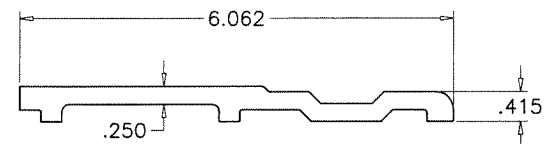
FL #27401



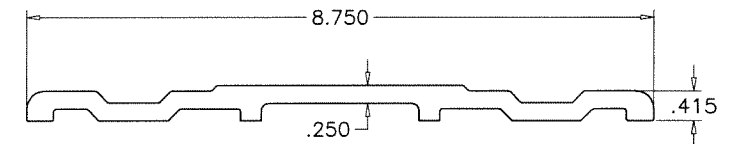
SUB FRAME CORNER



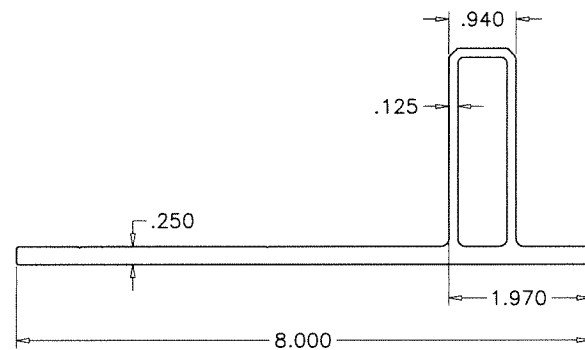
FRAME TOP/BOTTOM CORNER
HORIZONTAL CORNER



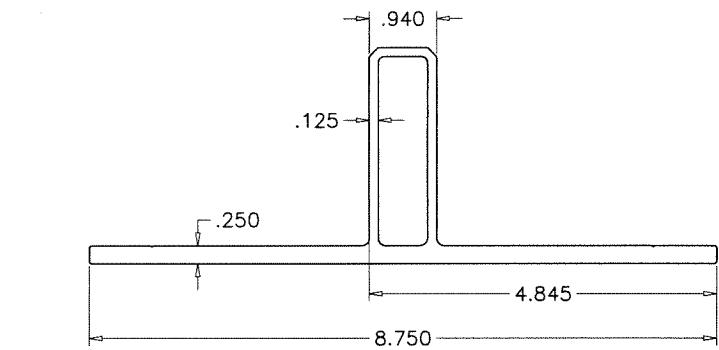
11 ANCHOR PLATE (JAMB)



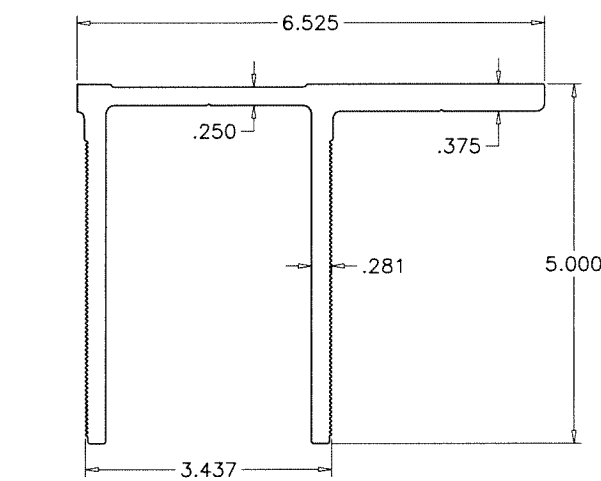
11A ANCHOR PLATE (MULLION)



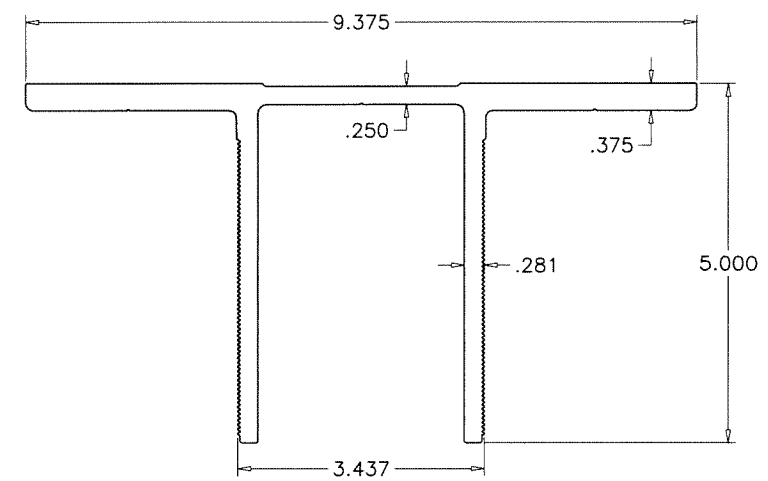
12 'F' ANCHOR CLIP (JAMB)



12A 'T' ANCHOR CLIP (MULLION)



13 INTERMEDIATE ANCHOR CLIP (JAMB)



13A INTERMEDIATE ANCHOR CLIP (MULLION)

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Medley, FL. 33166
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no	date	by	description

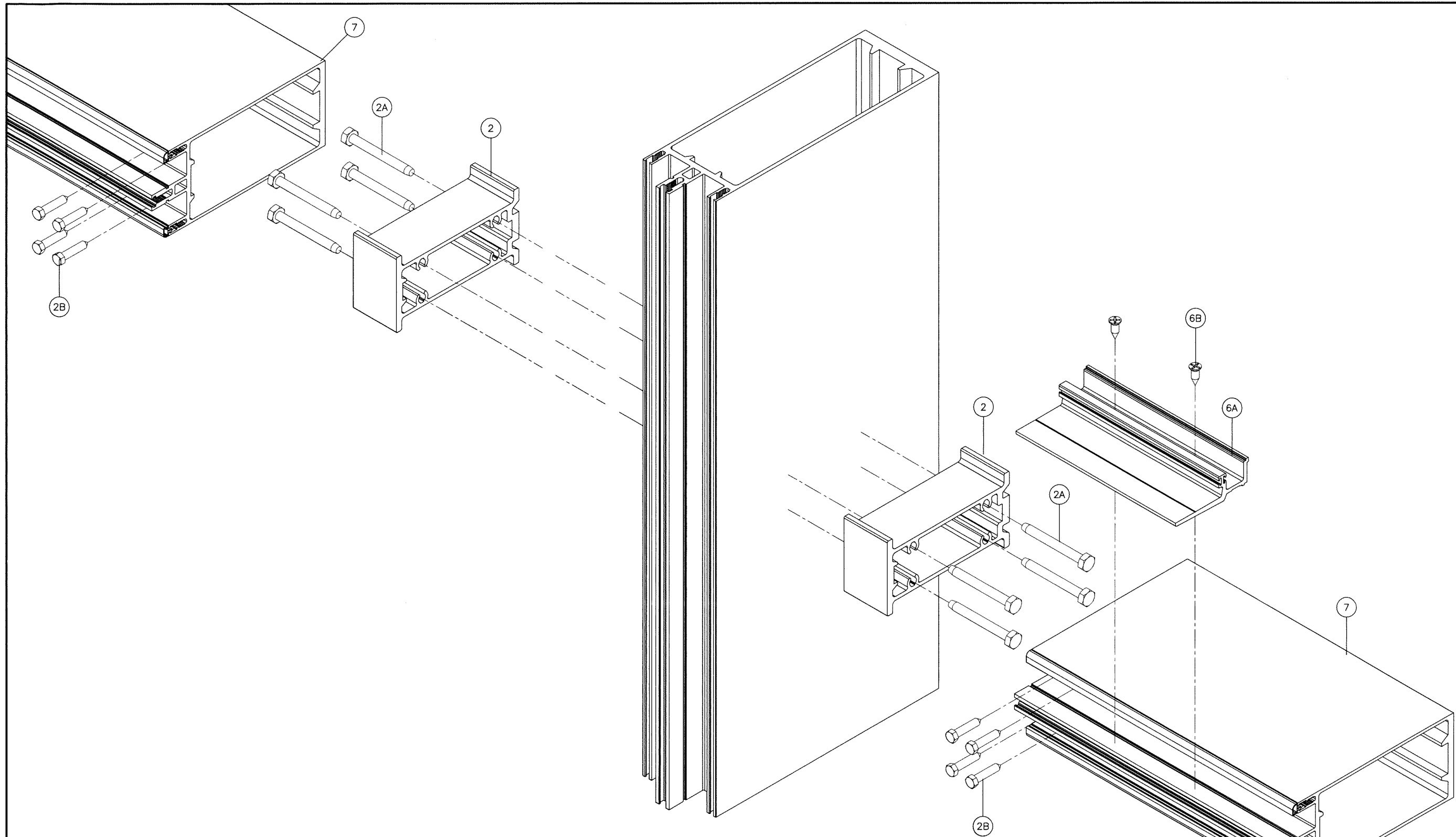
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19-18F
sheet 21 of 21

Sealed: 7/21/2023

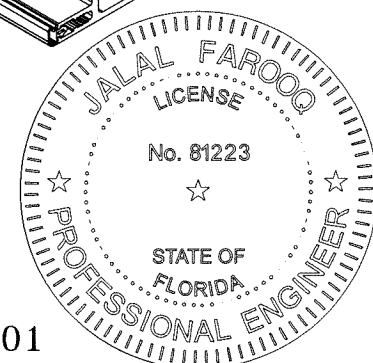
FL #27401





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

FL #27401



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19-18F
 sheet 21.1 of 21