

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

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 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 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.

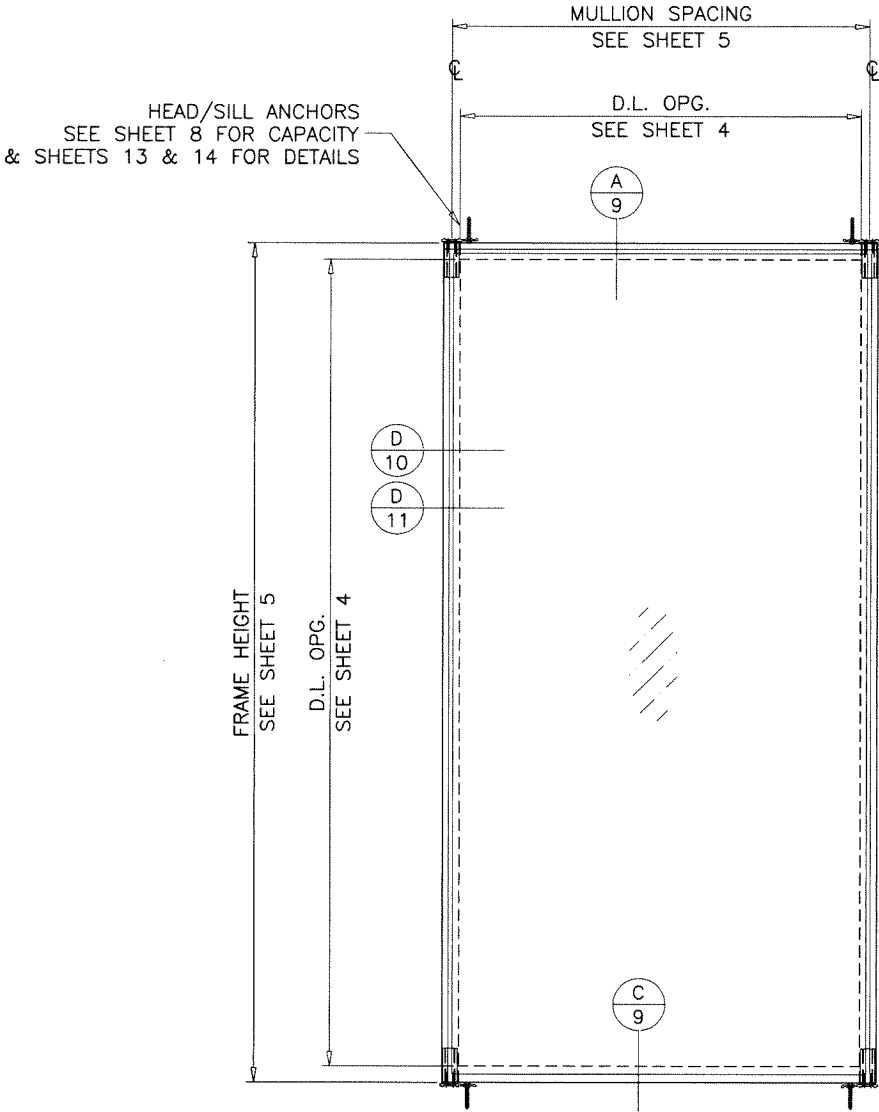
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY,
AND TO BE REVIEWED BY BUILDING OFFICIAL.

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: 3/18/2024

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.

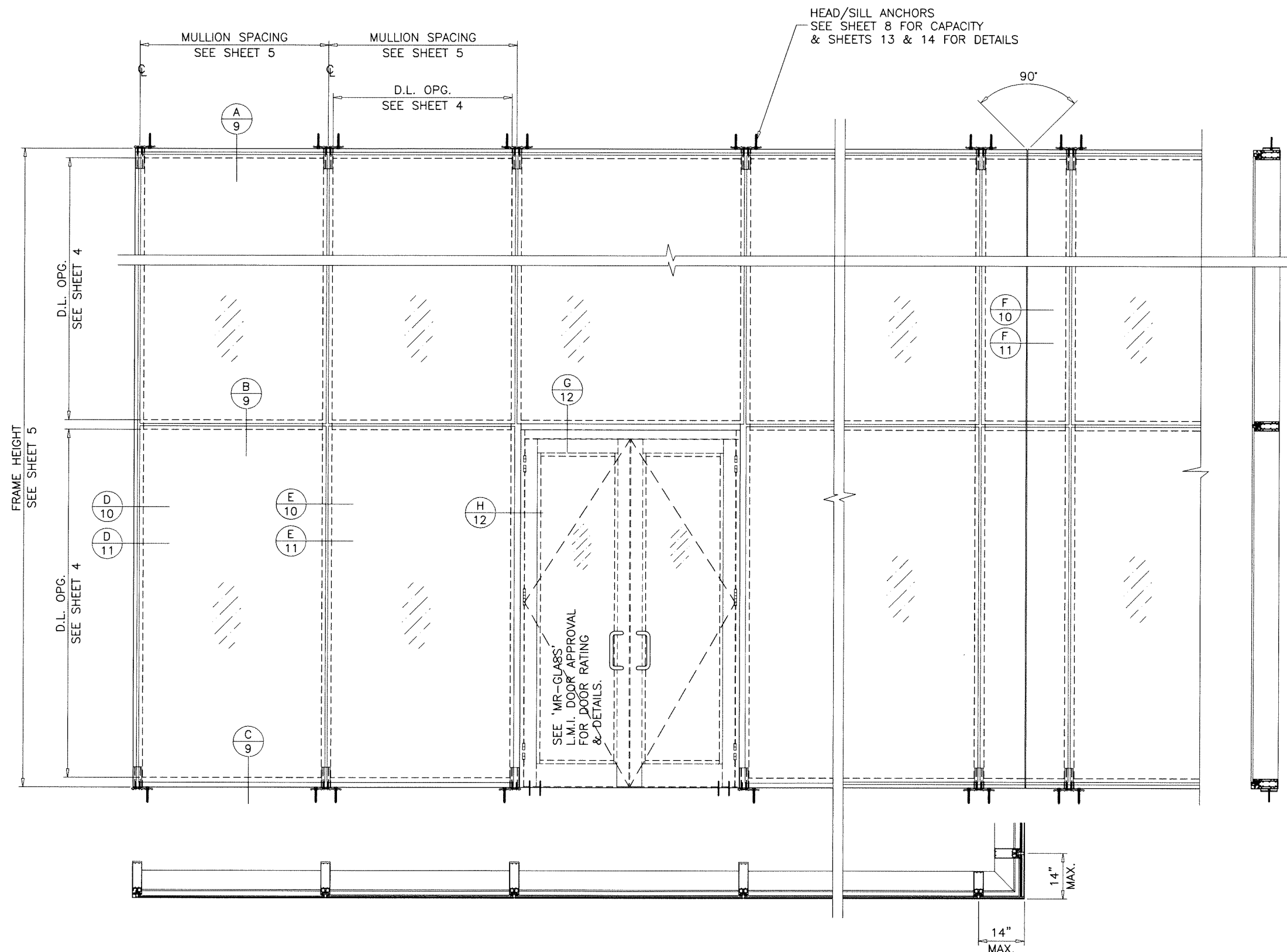
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF
THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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

date: 03-15-19		revisions:			
drawing no. 19-18F	scale: -	no	date	by	description
		C	08.12.22		NEW TEST ADDED
		D	01.23.23		DECORATIVE CAP OPTION ADDED
		E	07.18.23		UPDATED TO 2023 FBC
dr. by: TARIQ		F	03.14.24		ANGULAR PANEL OPTION ADDED
chk. by:					
sheet 1 of 21					



TYPICAL ELEVATION
SINGLE SPANS

HEAD/SILL ANCHORS
SEE SHEET 8 FOR CAPACITY
& SHEETS 13 & 14 FOR DETAILS

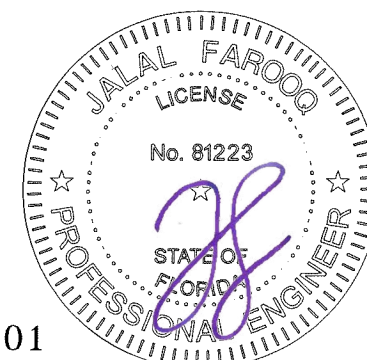
90°

14"
MAX.

14"
MAX.

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no	date by description

date: 03-15-19

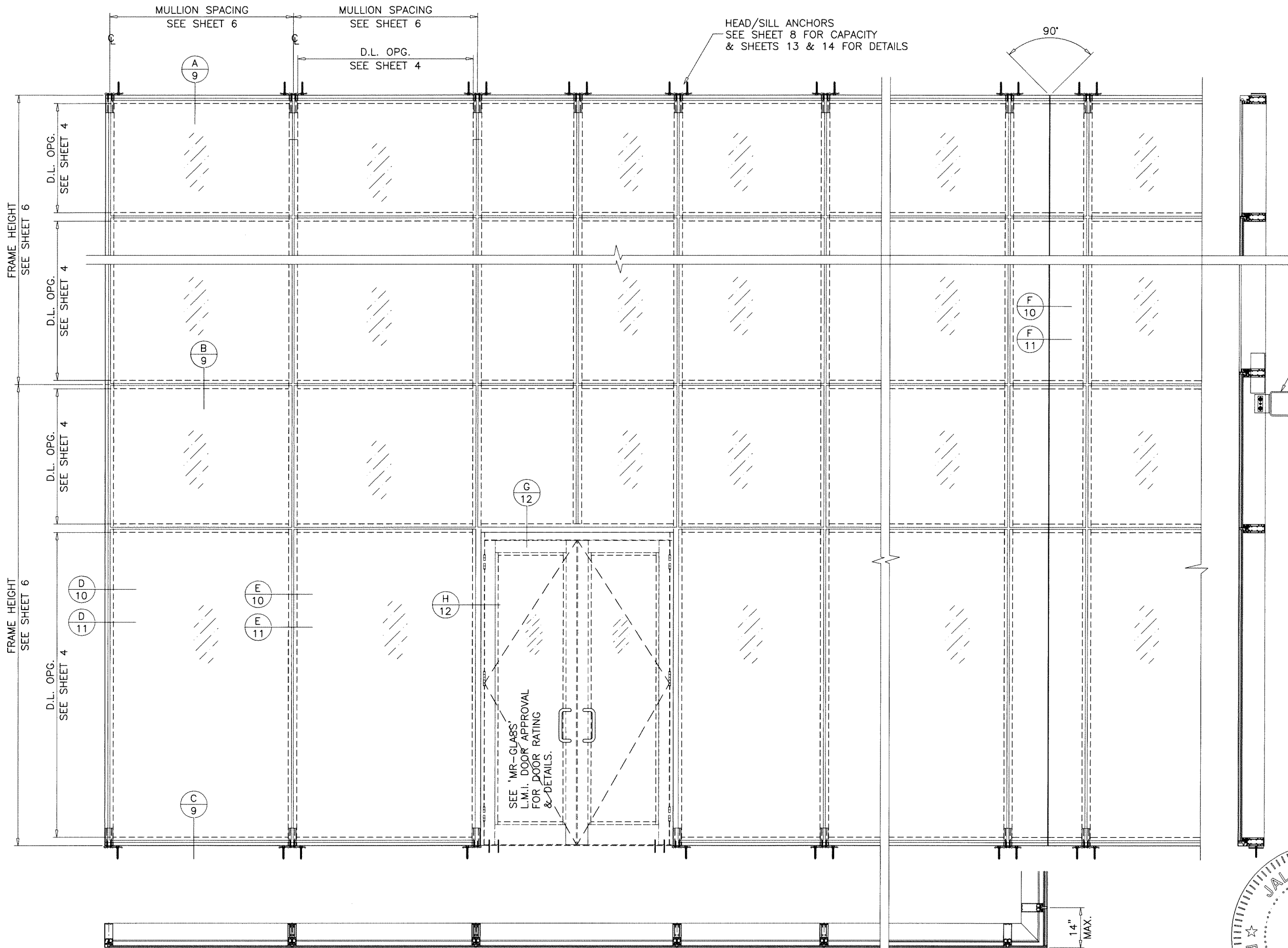
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dr. by: TARIQ

chk. by:

drawing no.
19-18F

sheet 2 of 21



TYPICAL ELEVATION
TWIN SPANS

Sealed: 3/18/2024

FL #27401



af c
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revisions:	
no	date by description

date: 03-15-19

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dr. by: TARIQ

chk. by:

drawing no.
19-18F

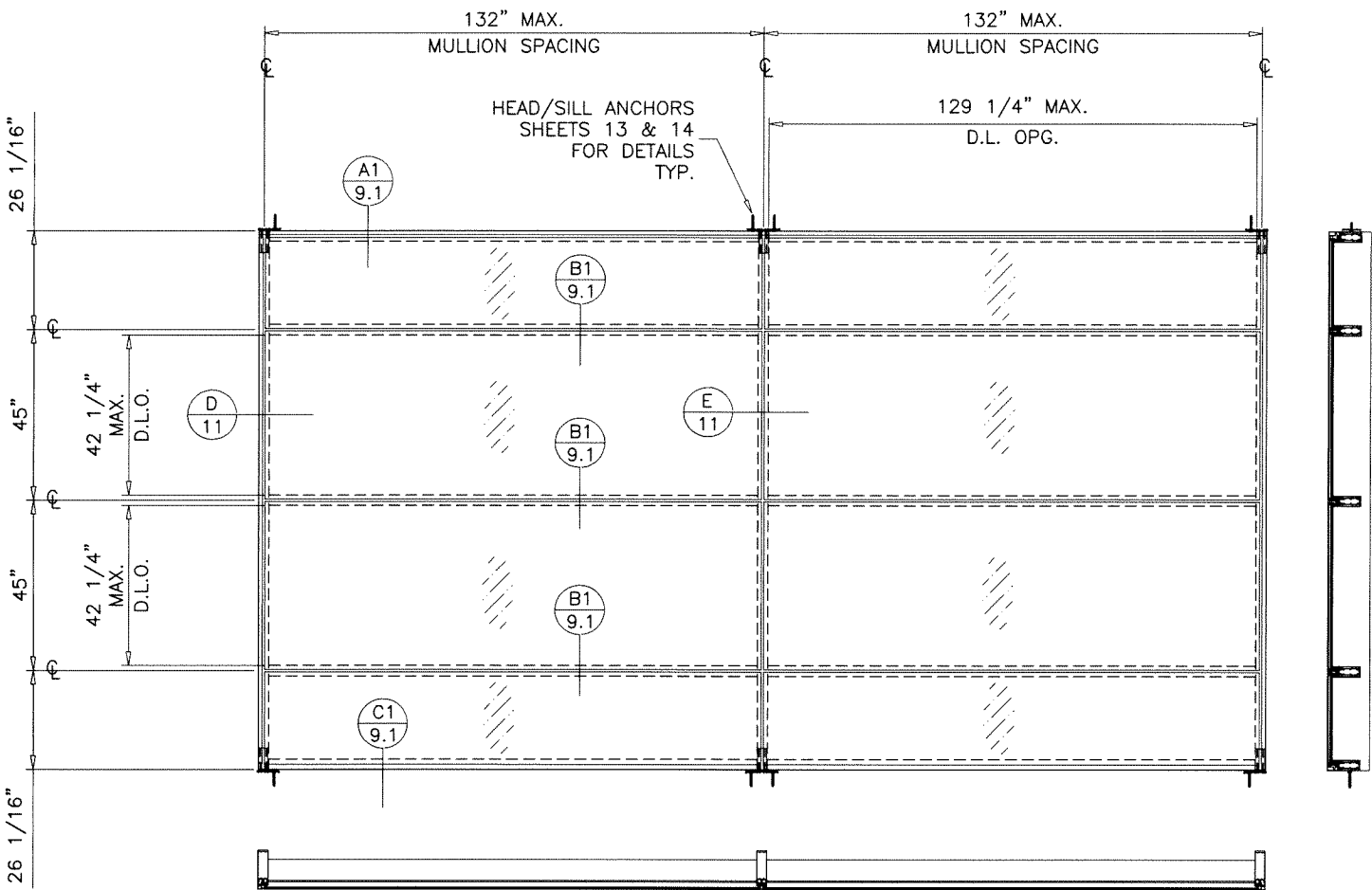
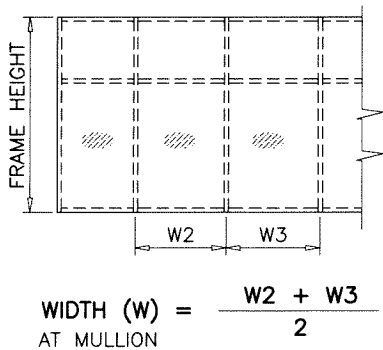
sheet 3 of 21

COMP-ANL\19-18F-MG

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'
		'F' CLIP INTO CONC.	'T' CLIP INTO CONC.		'JAMB PLATE' INTO CONC.		'MULLION PLATE' INTO CONC.		'F' CLIP, 'T' CLIP
WIDTH (W)	FRAME HEIGHT	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

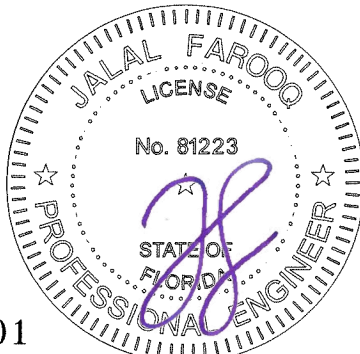


CHARTS SHOWN ON THIS SHEET APPLY TO CONDITIONS SHOWN ON SHEETS 3.1 AND 3.2 ONLY

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: 3/18/2024

FL #27401

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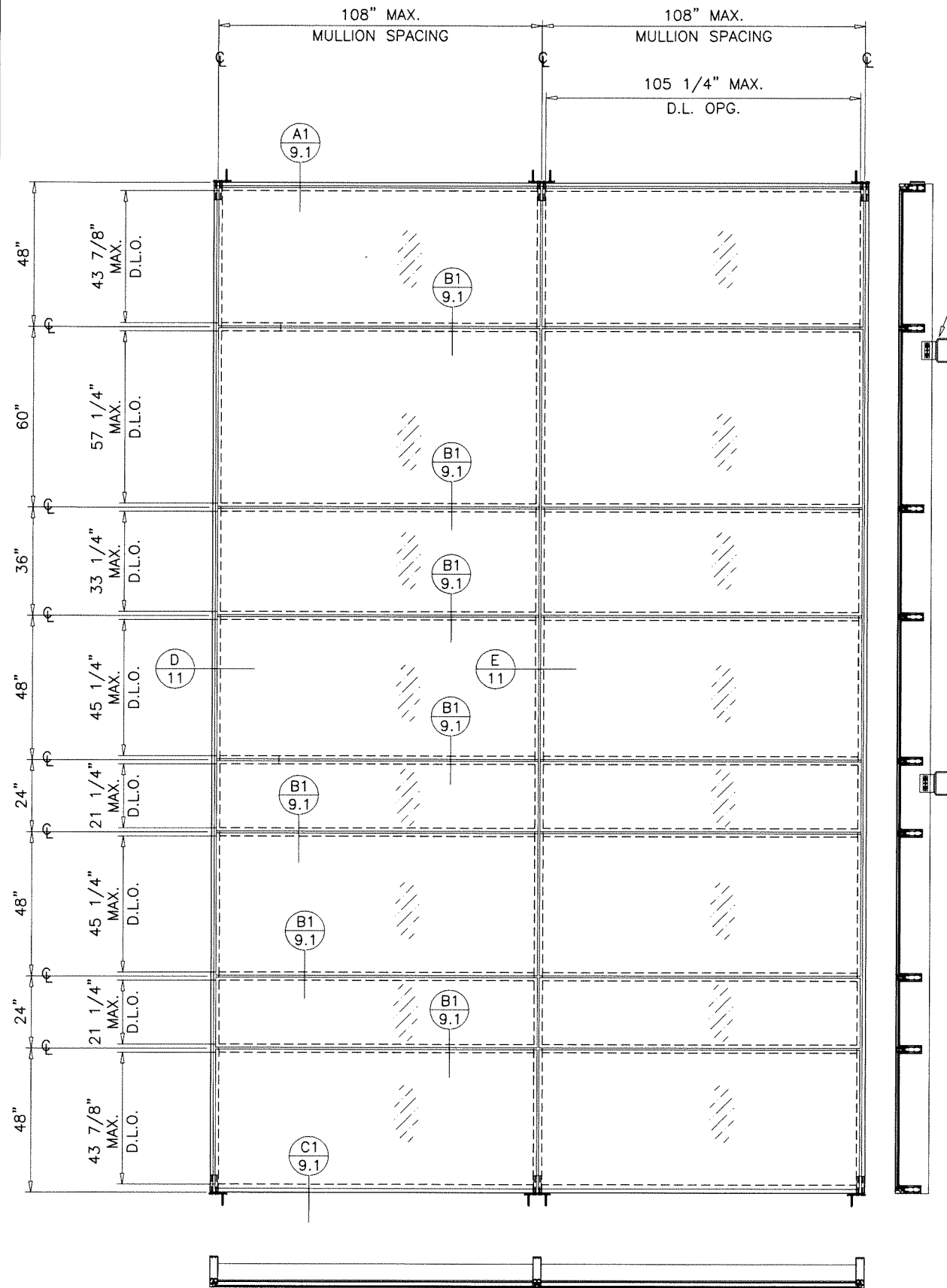
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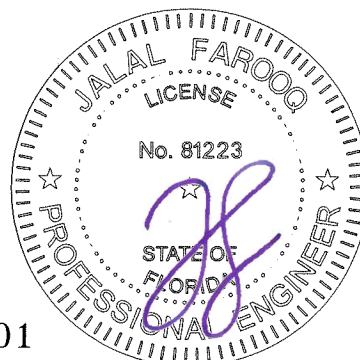
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date: 03-15-19
scale: 1/4"=1'-0"
dr. by: TARIQ
chk. by:

drawing no.
19-18F
sheet 3.1 of 21

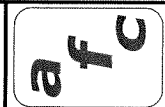


INTERMEDIATE
ANCHORS
SEE SHEETS
15 THRU 18



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no	date

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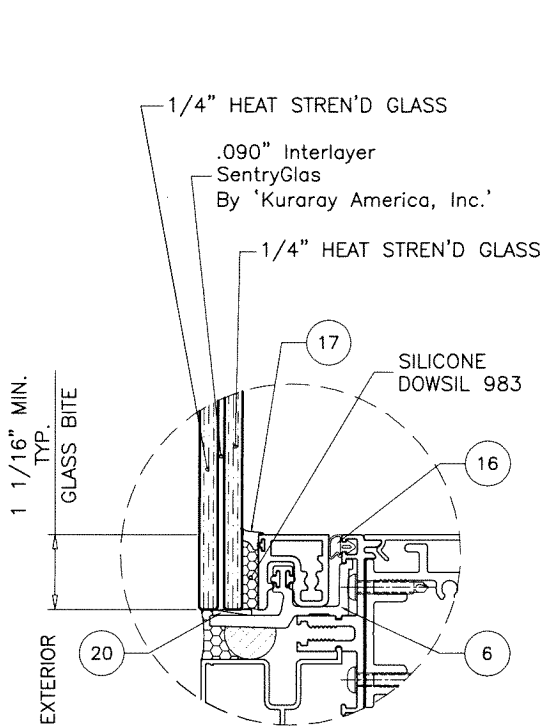
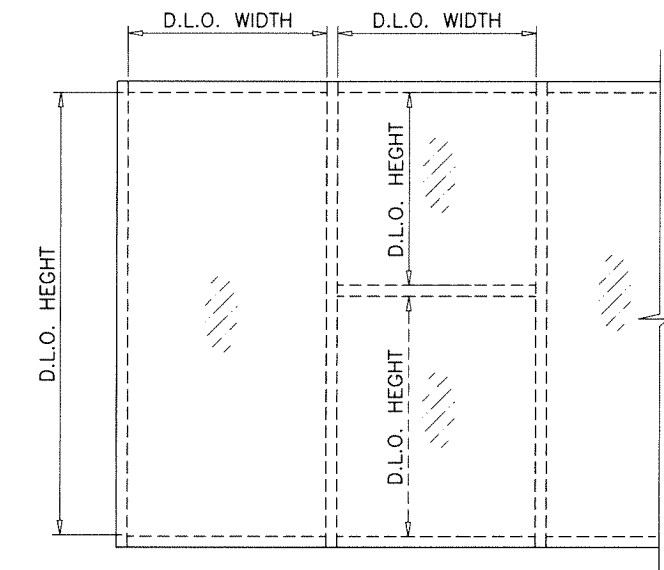
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drawing no.
19-18F

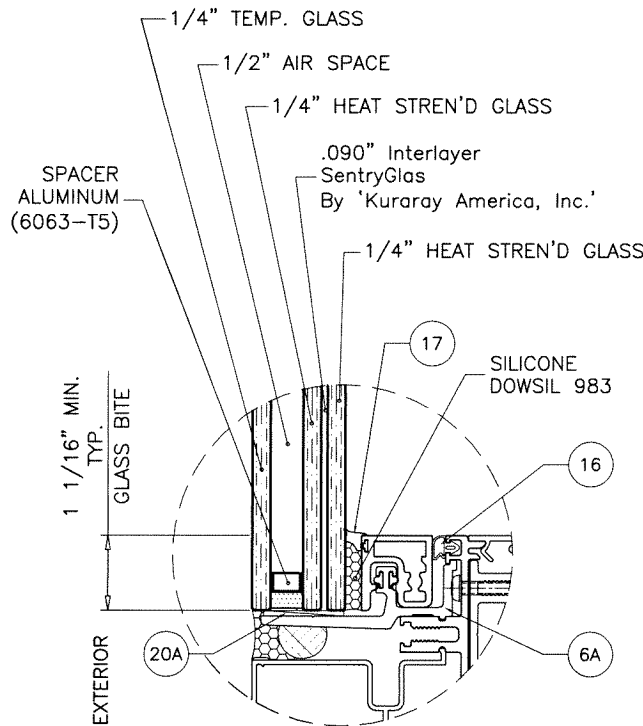
sheet **3.2** of **21**

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
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	94.7
57-1/4"		90.0	90.0
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	94.7
57-1/4"		90.0	90.0
63-1/4"		81.8	81.8

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.

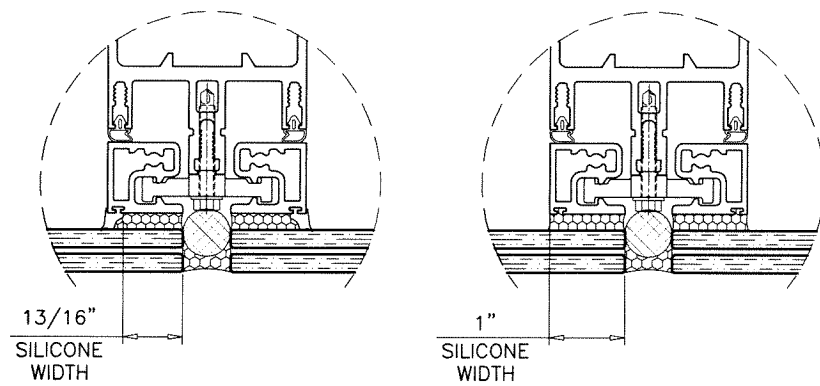


GLASS TYPE 'A'
9/16" LAM. GLASS

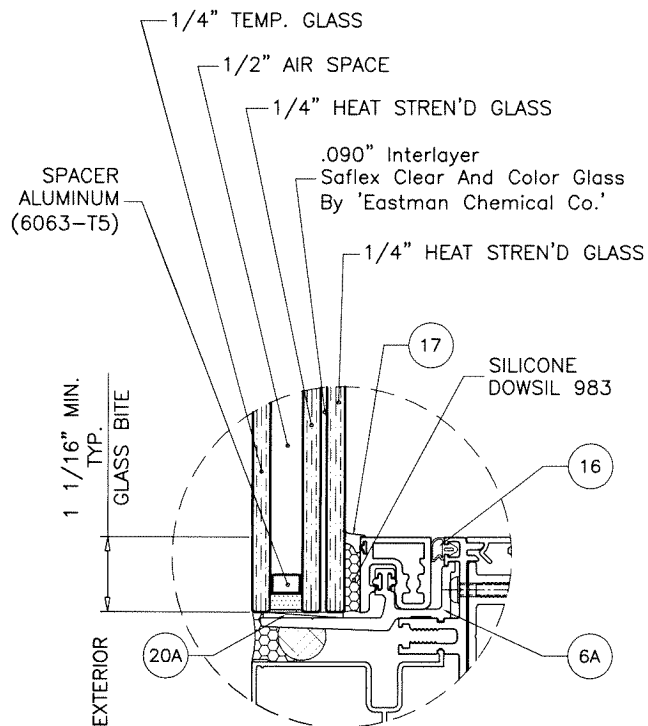


GLASS TYPE 'Ai'
1-5/16" INSUL. LAM. GLASS

GLAZING OPTIONS

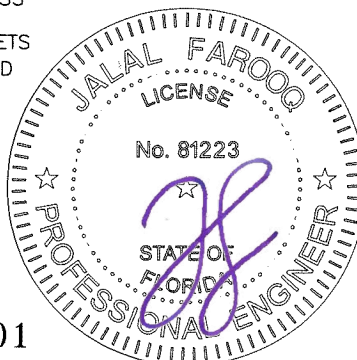


SILICONE CAPACITY - PSF		
D.L.O. WIDTH	SILICONE WIDTH	
	13/16"	1"
39-1/4"	100.0	100.0
45-1/4"	99.0	100.0
51-1/4"	88.0	100.0
57-1/4"	79.2	96.0
63-1/4"	72.0	87.3
69-1/4"	66.0	80.0



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

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



Sealed: 3/18/2024

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

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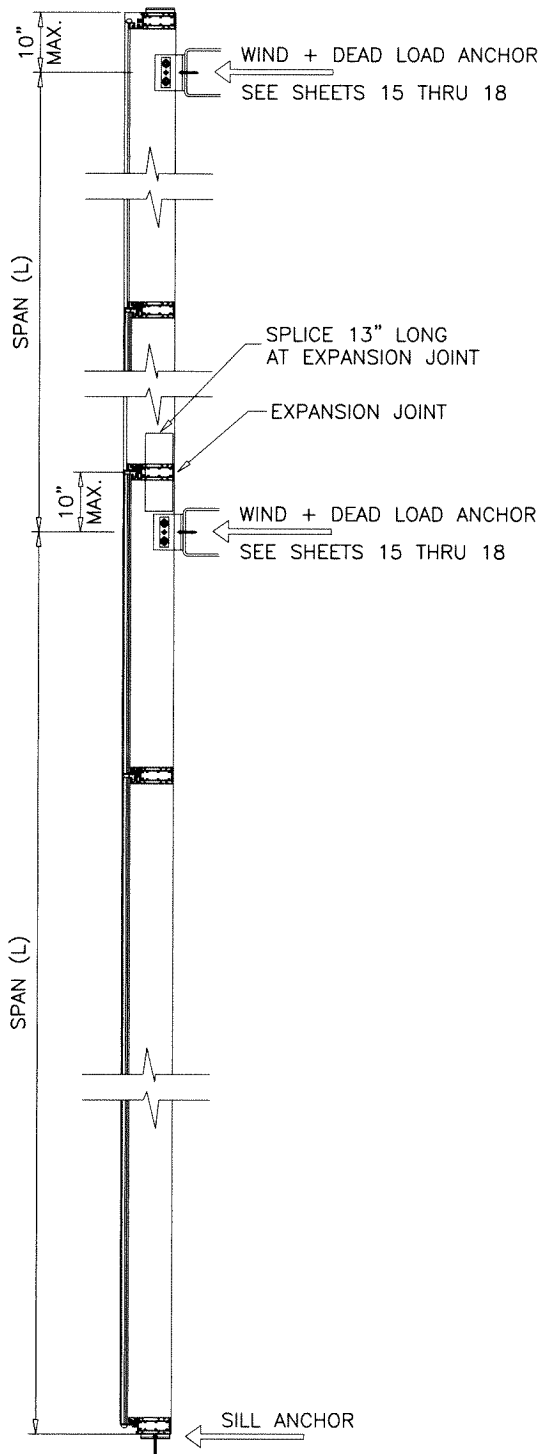
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date:	03-15-19	scale:	-	
dr. by:	TARIQ	chk. by:		
drawing no.	19-18F			
sheet	4 of 21			

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

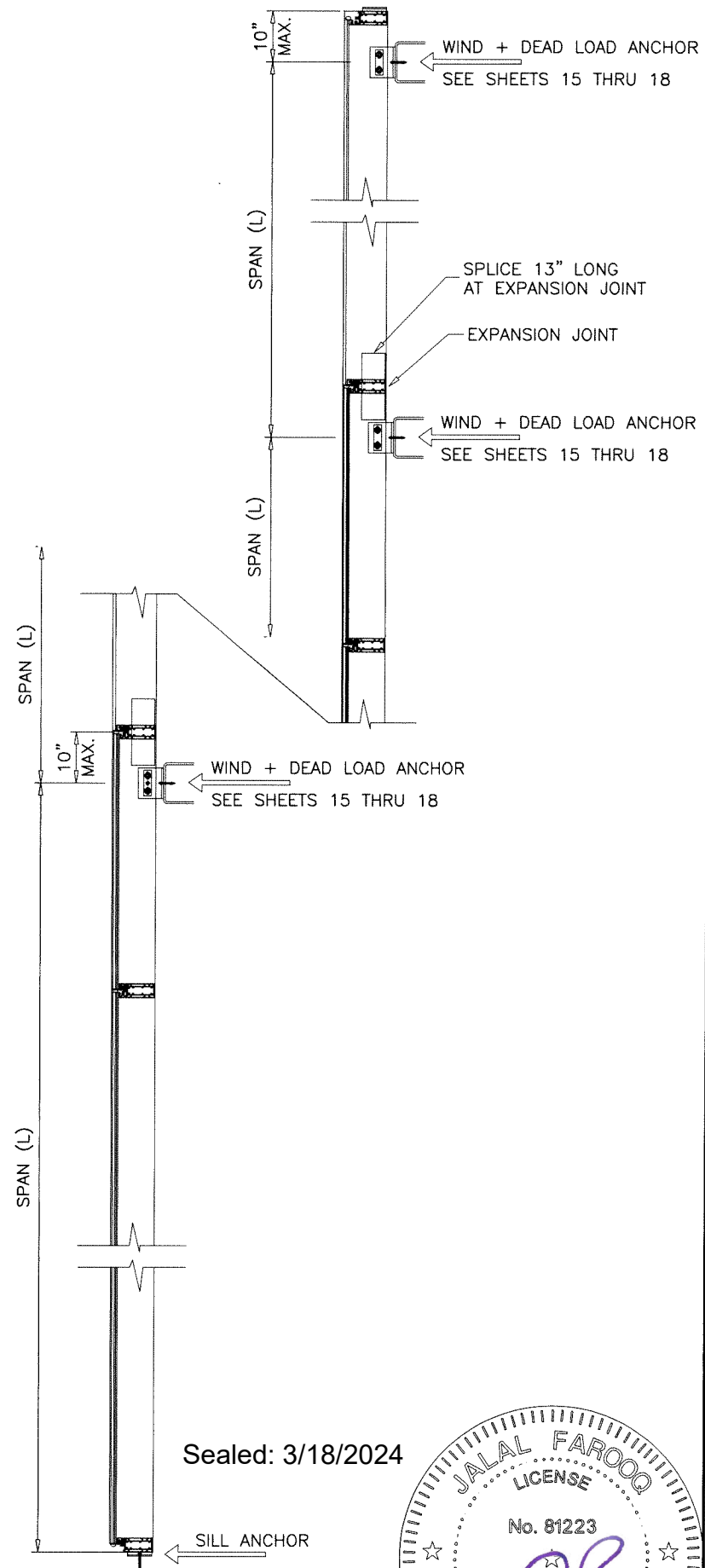
INTERPOLATION BETWEEN WIDTHS ALLOWED.

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	80.0
60"		-	-	80.0	90.0
66"		-	-	80.0	90.0
72"		-	-	80.0	90.0

INTERPOLATION BETWEEN WIDTHS ALLOWED.



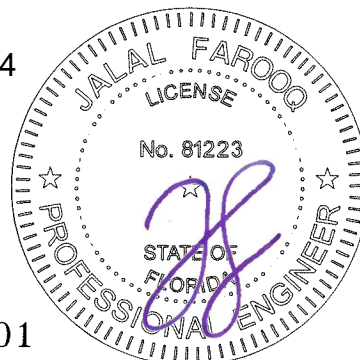
TWO SPANS



MULTIPLE SPANS

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

FL #27401



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL 19-18F-MG

MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

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

revisions:
no date by description

drawing no.
19-18F
sheet 5.1 of 21

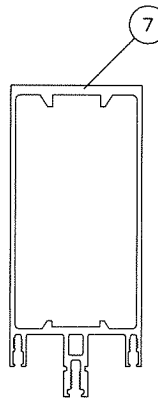
MULLION DESIGN LOAD CAPACITY - PSF
TWO SPANS & MULTIPLE SPANS

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

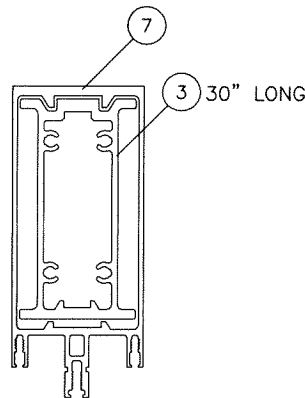
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	144"	90.0	90.0
48"		90.0	90.0
54"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

INTERPOLATION BETWEEN WIDTHS ALLOWED.



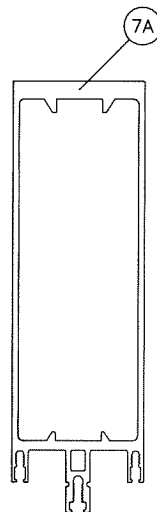
JAMB 'J1'

Ix IN ⁴	Sx IN ³
13.52	3.96



MULLION 'M6'

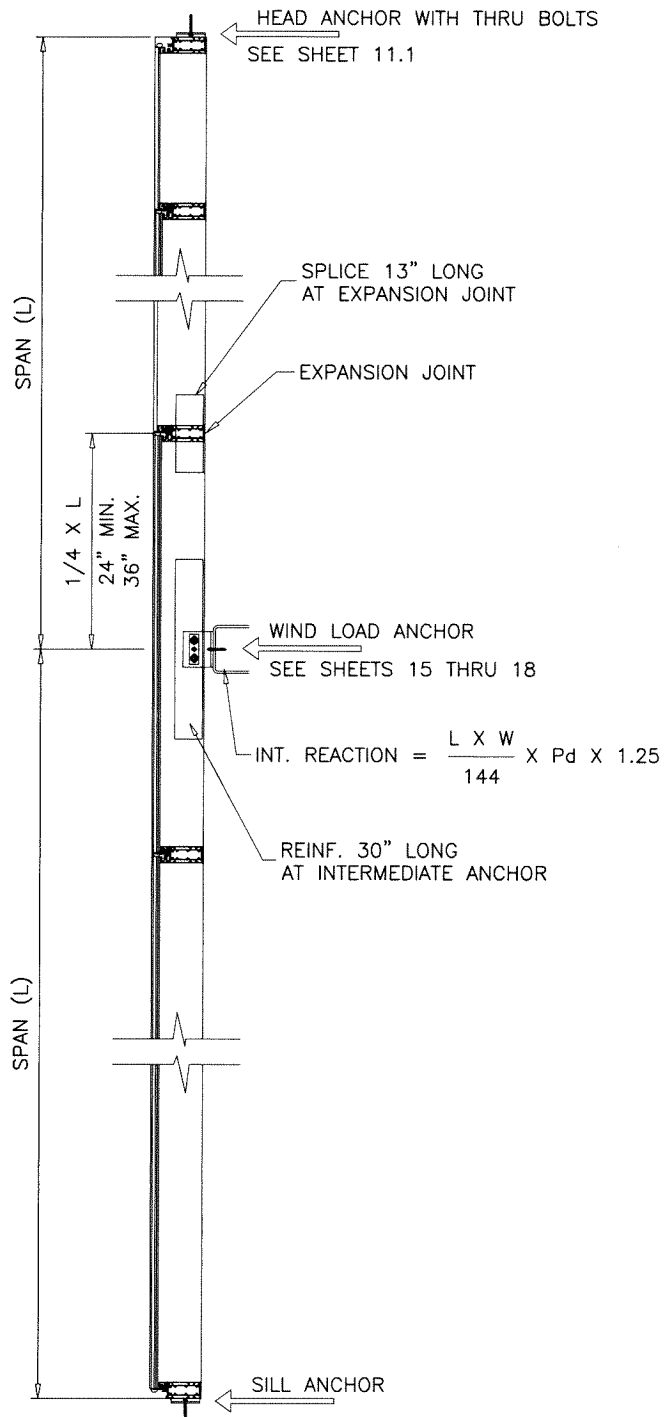
Ix IN ⁴	Sx IN ³
20.92	6.13



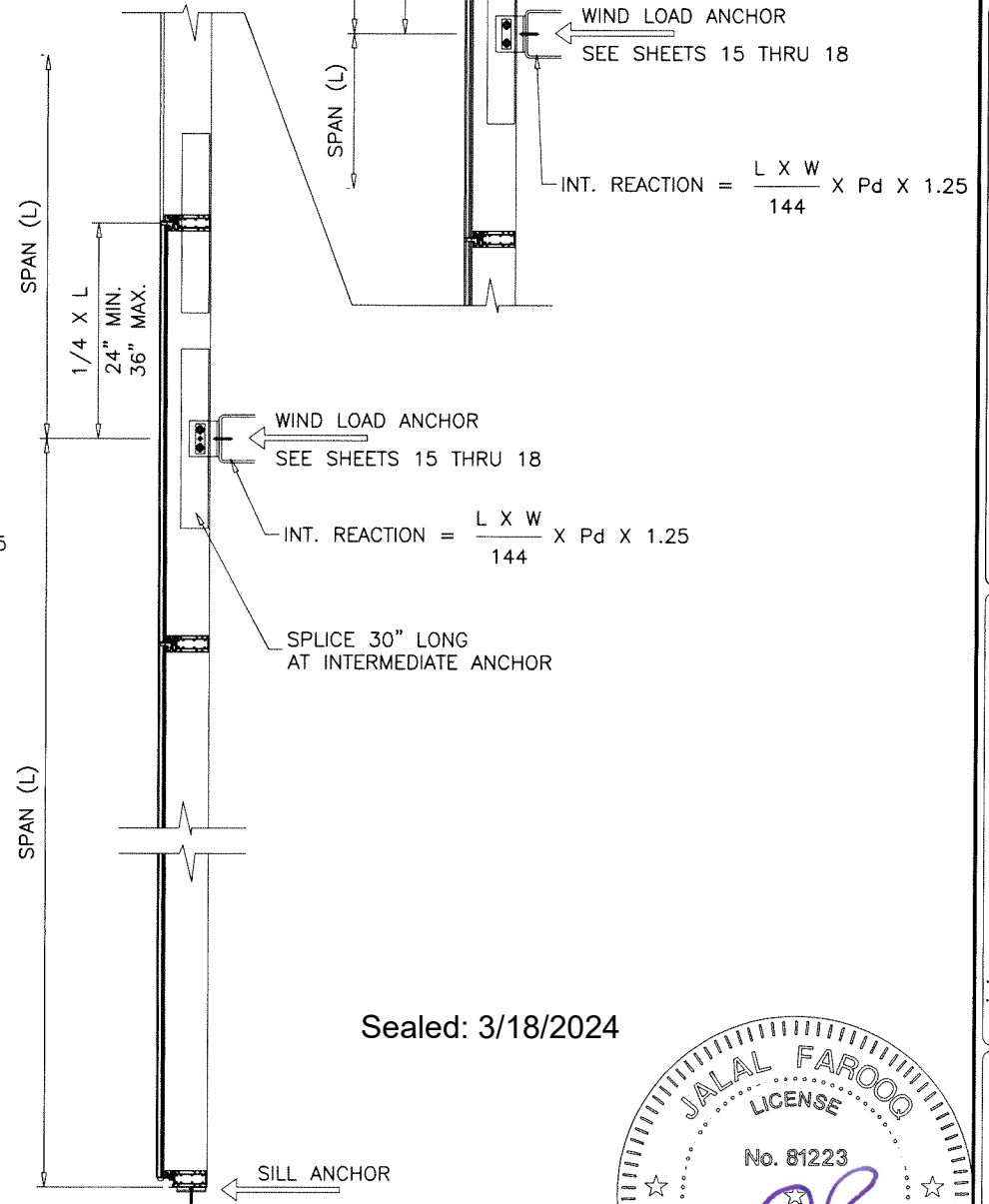
JAMB 'J2'
MULLION 'M4'

Ix IN ⁴	Sx IN ³
41.55	8.36

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

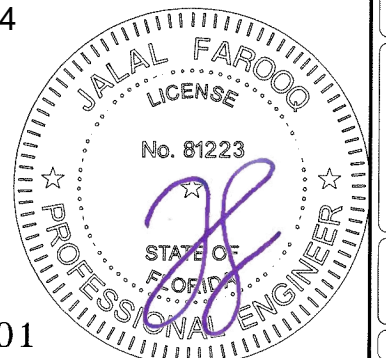


TWO SPANS WITH EXPANSION JOINTS



MULTIPLE SPANS WITH EXPANSION JOINTS

Sealed: 3/18/2024



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL 19-18F-MG

SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.)
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8051 N.W. 79th Place
Medley, FL. 33166
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revisions:		no		date		by		description	
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FL #27401

drawing no.
19-18F
sheet 6 of 21

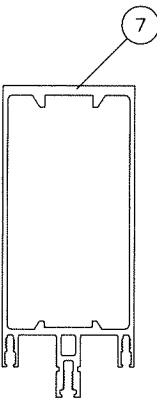
MULLION DESIGN LOAD CAPACITY - PSF
TWO SPANS & MULTIPLE SPANS

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

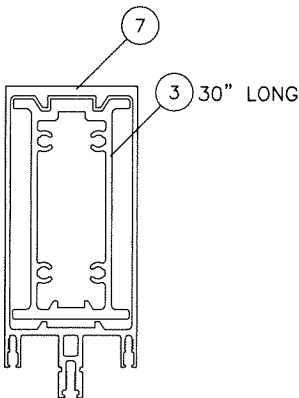
NOMINAL DIMS.		JAMB 'J2' MULL 'M4'	
WIDTH (W)	SPAN (L)	EXT.(+)	INT.(-)
42"	120"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	126"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	132"	90.0	90.0
48"		90.0	90.0
54"		90.0	90.0
60"		90.0	90.0
42"	144"	90.0	90.0
48"		90.0	90.0
54"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

INTERPOLATION BETWEEN WIDTHS ALLOWED.



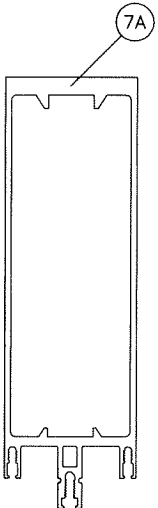
JAMB 'J1'

Ix IN^4	Sx IN^3
13.52	3.96



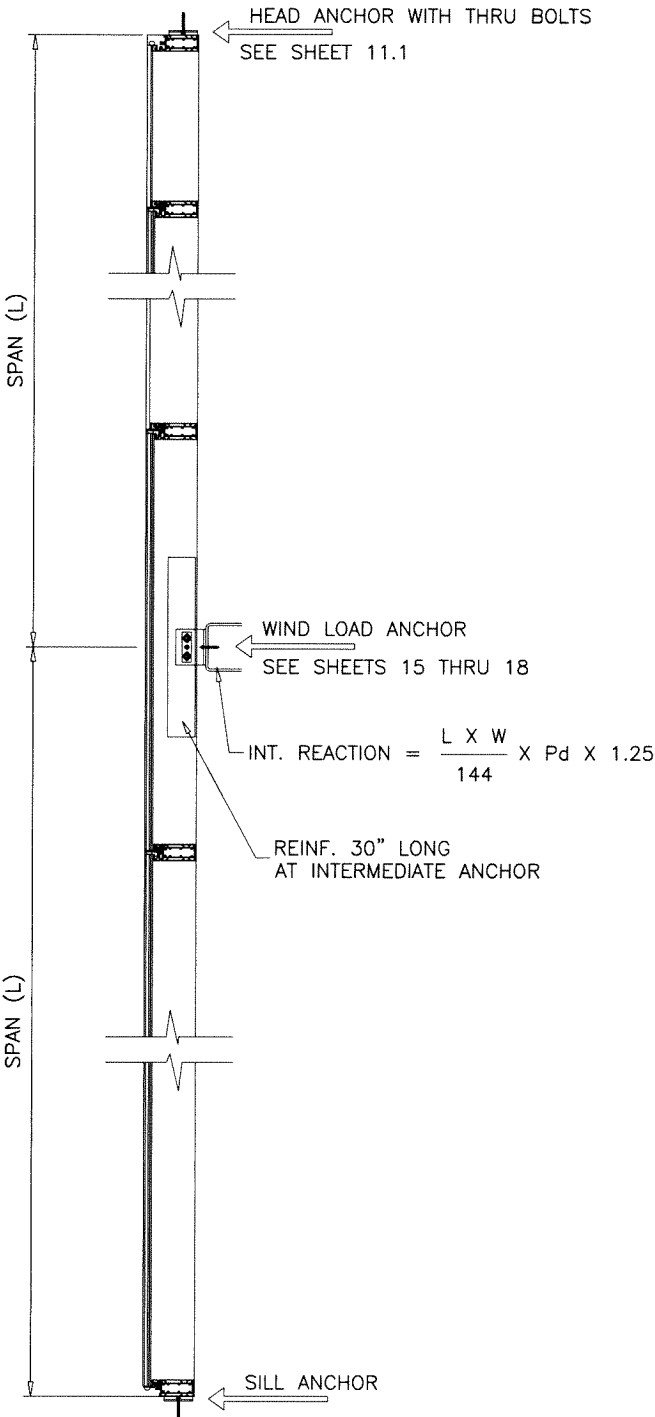
MULLION 'M6'

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: 3/18/2024

FL #27401



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
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(C.A.N. 3538)

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

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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.

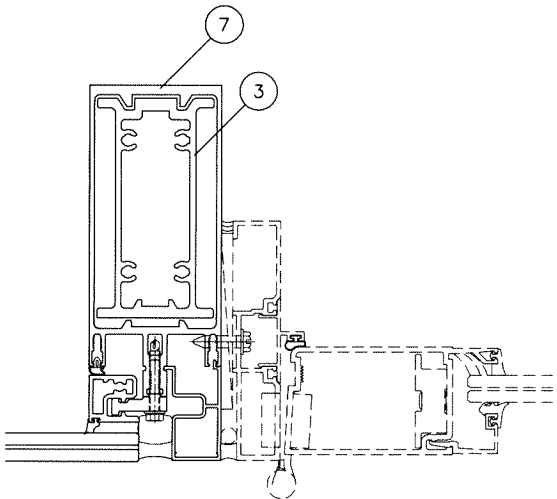
19-18F

sheet 6.1 of 21

COMP-ANL 19-18F-MG

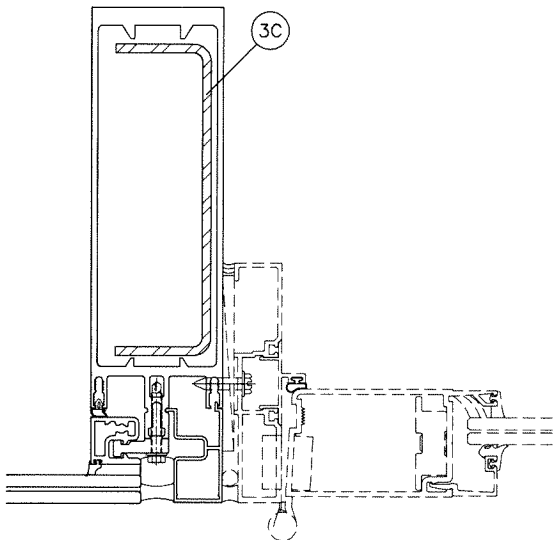
DOOR MULLION LOAD CAPACITY – PSF						
NOMINAL DIMS.			MULL 'DM1'		MULL 'DM2'	
SIDELITE WIDTH INCHES	FRAME HEIGHT INCHES	DOOR HEIGHT INCHES	EXT.(+)	INT.(–)	EXT.(+)	INT.(–)
36	120	84	85.0	85.0	80.0	90.0
42			85.0	85.0	80.0	90.0
48			85.0	85.0	80.0	90.0
54			85.0	85.0	80.0	90.0
60			85.0	85.0	80.0	90.0
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



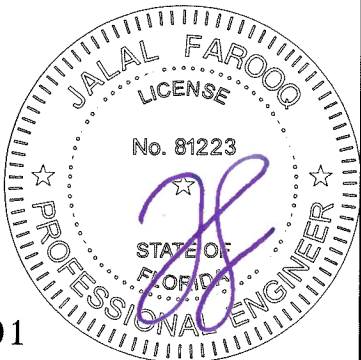
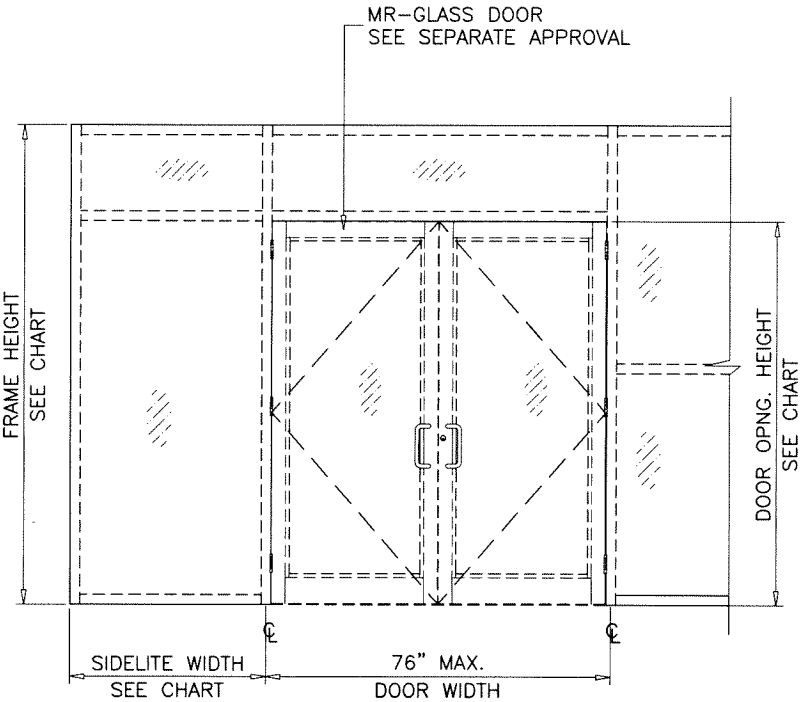
MULLION 'DM1'

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: 3/18/2024

FL #27401

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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COMP-ANL \ 19-18F-MG

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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.		'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.

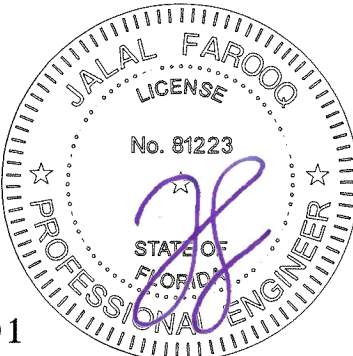
TYPICAL ANCHORS: SEE SHEETS 13 & 14 FOR DETAILS

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

af c

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(C.A.N. 3538)

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

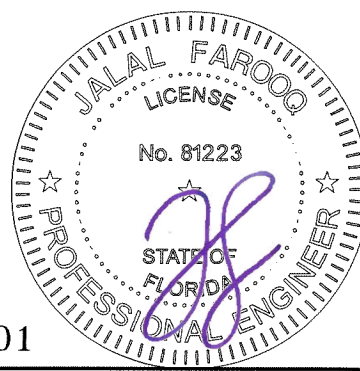
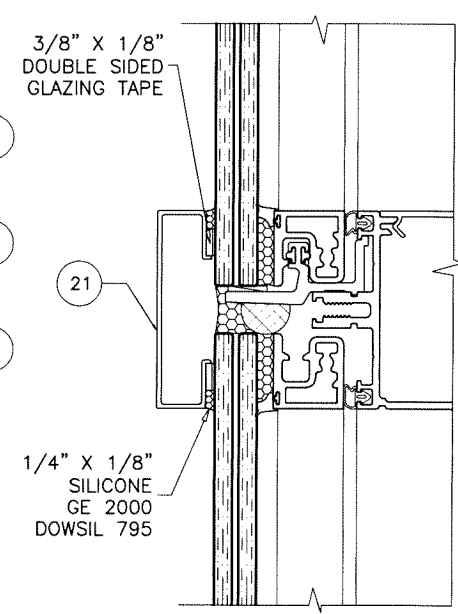
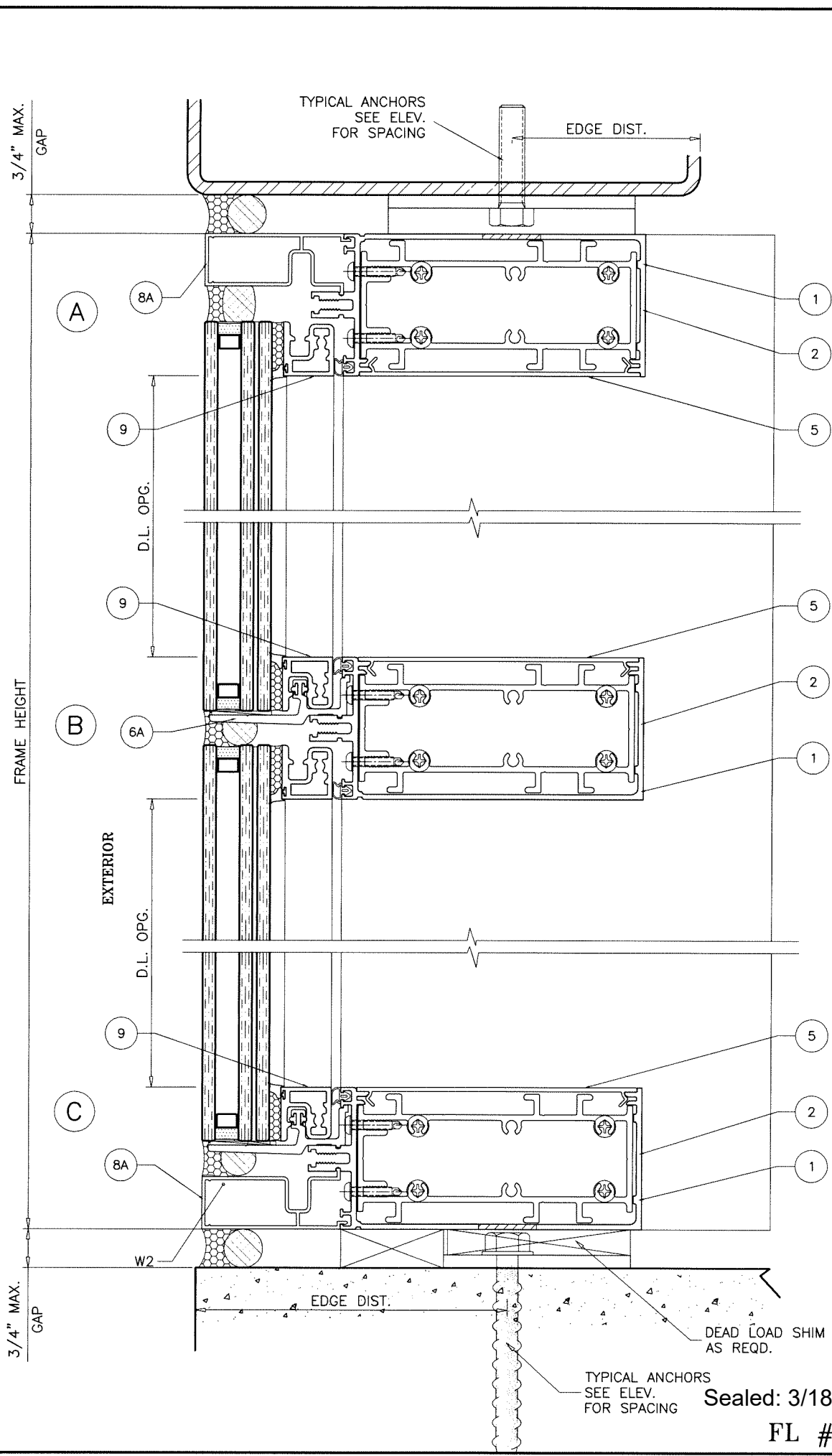
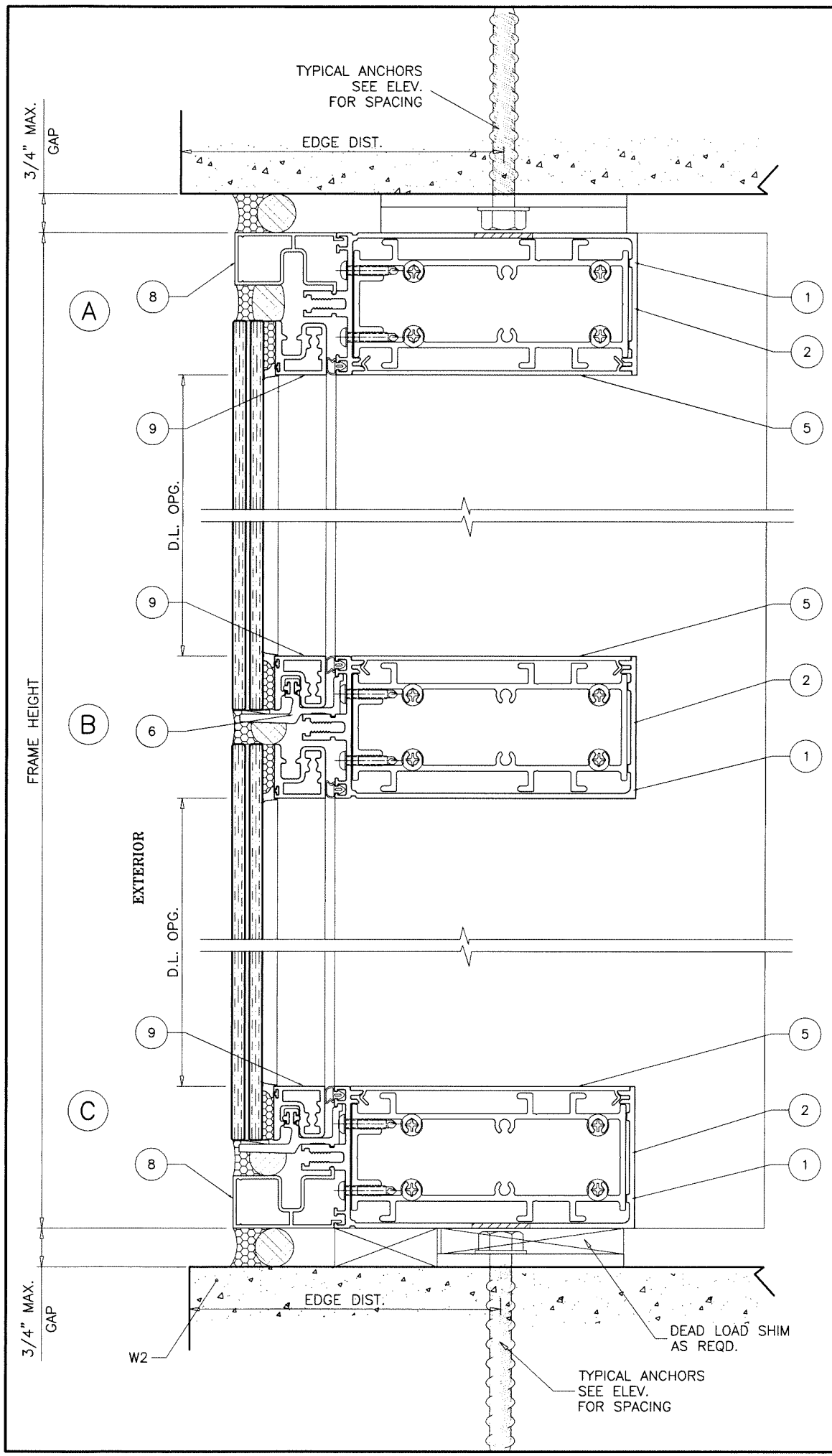
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL 33166
Tel. (305) 764-3963 Fax. (305) 470-8285

revisions:
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drawing no.
19-18F
sheet **8** of **21**

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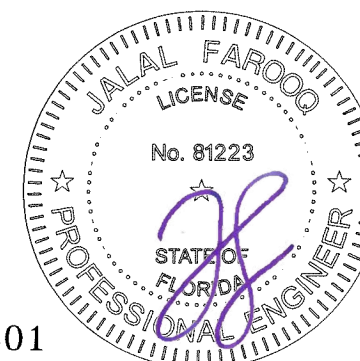
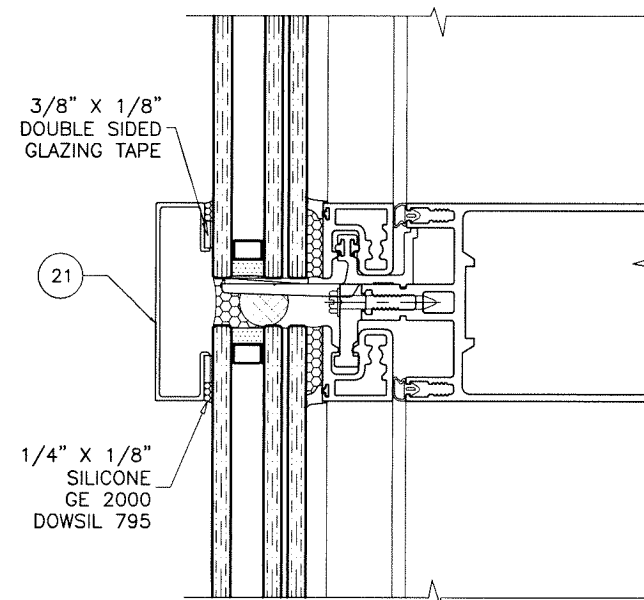
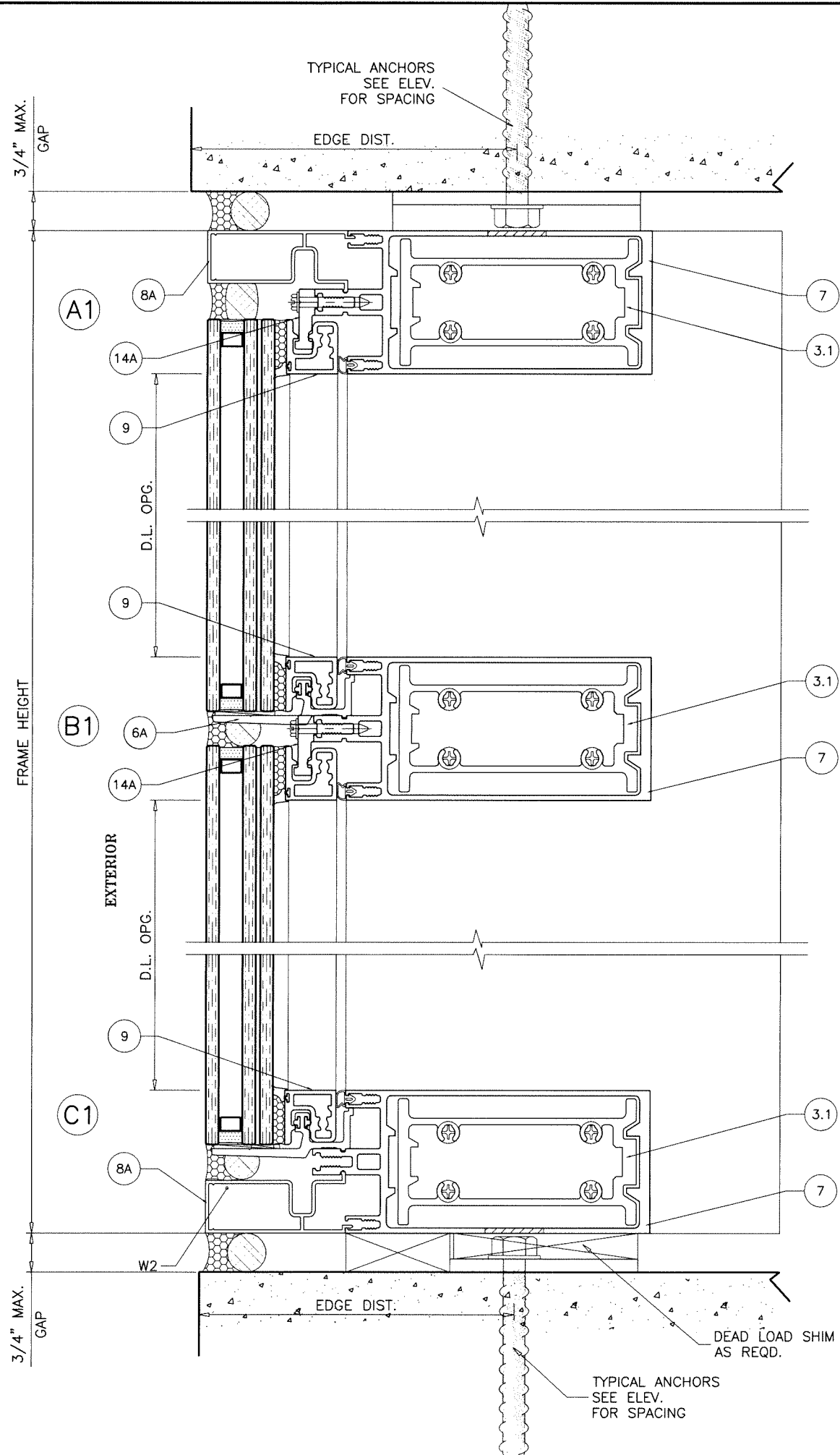
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drawing no. 19-18F

sheet 9 of 21



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19-18F

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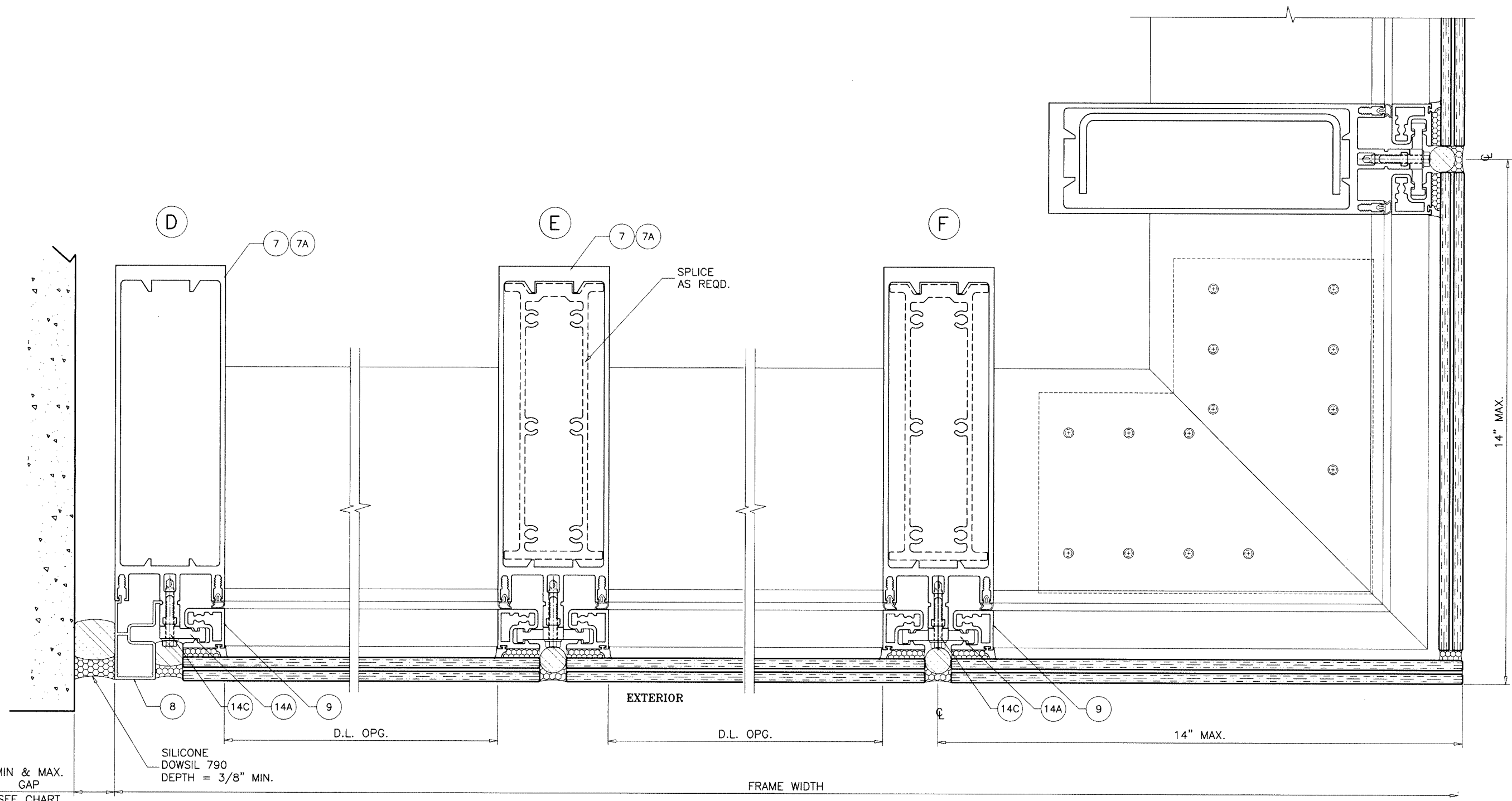
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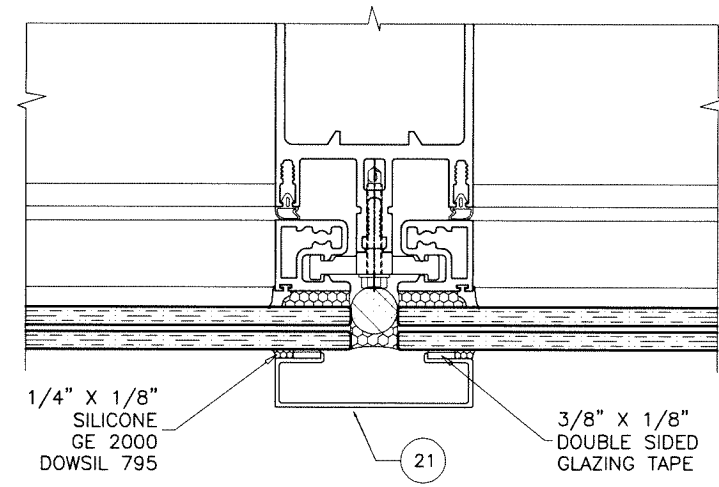
sheet 9,1 of 21



MIN & MAX.
GAP
SEE CHART
BELOW

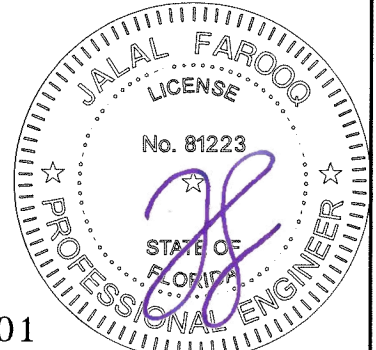
MAX. FRAME HEIGHT	GAP	
	MIN.	MAX.
180"	1/2"	3/4"
204"	5/8"	3/4"

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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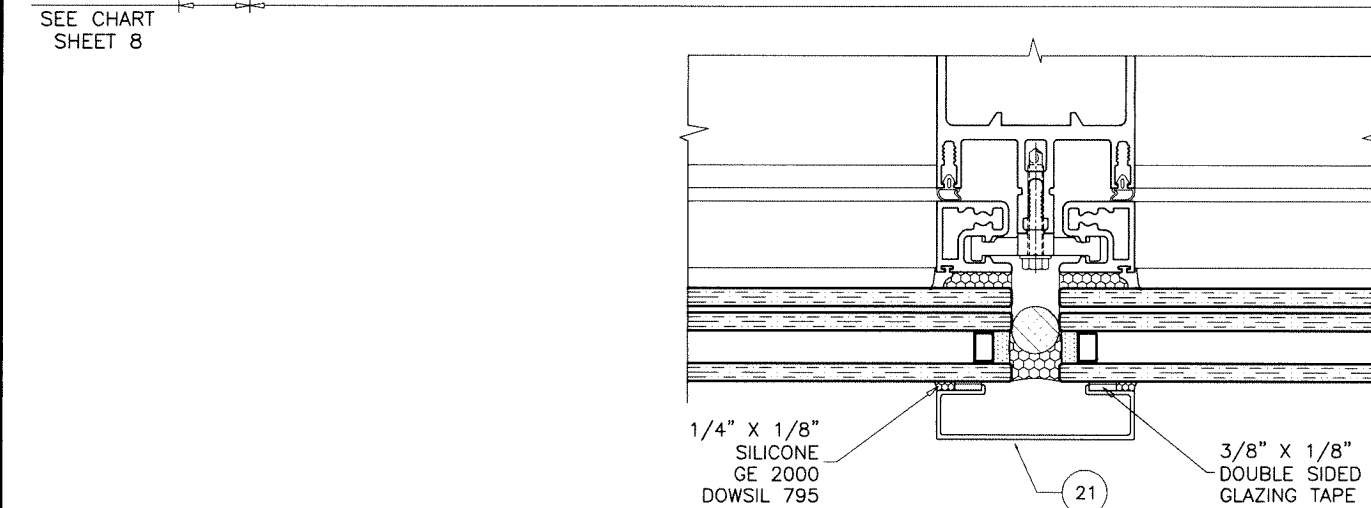
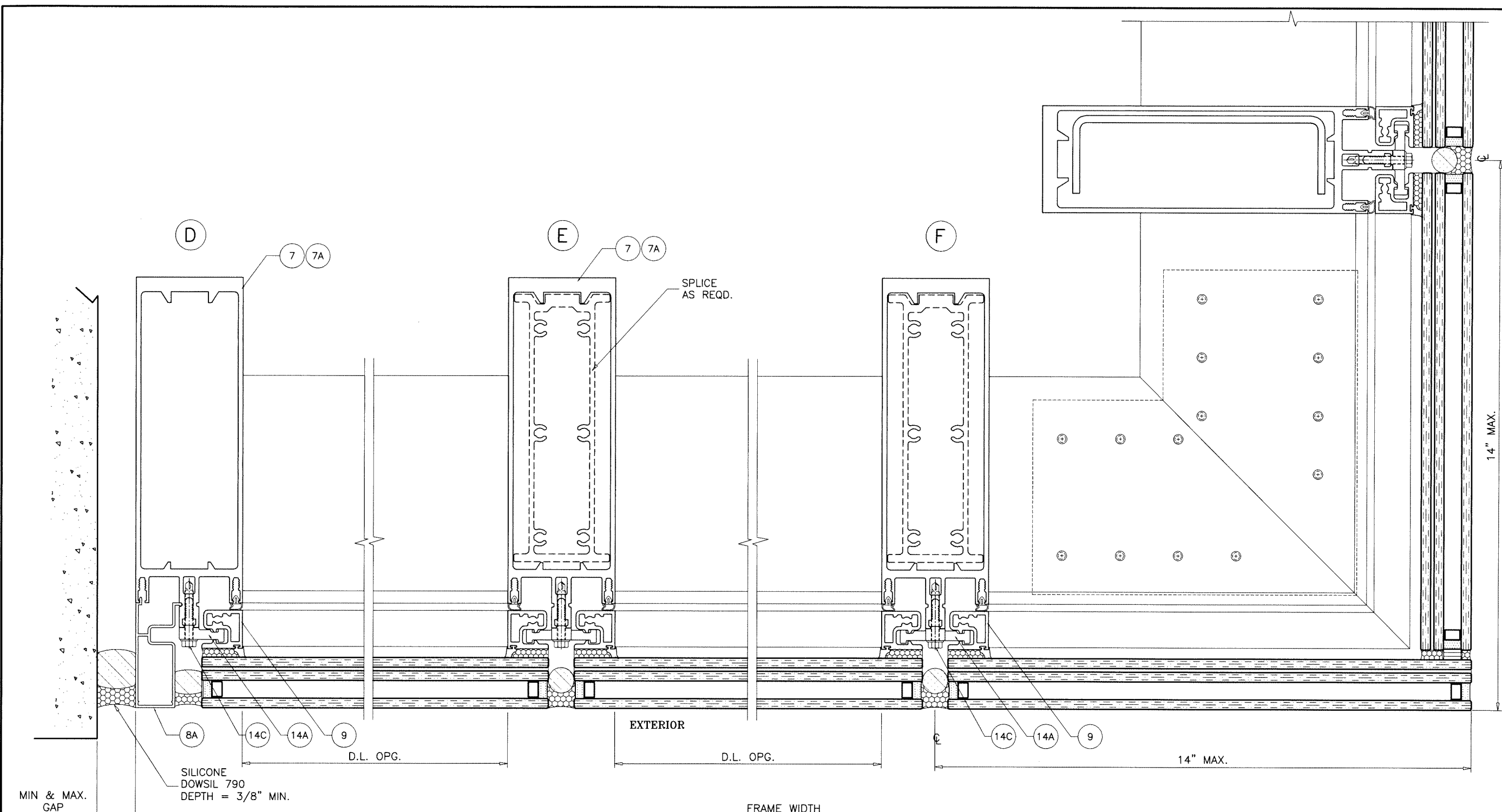


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C.A.N. 3538

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COMP-ANL\19-18F-MG



MIN & MAX.
GAP
SEE CHART
SHEET 8

SILICONE
DOWSIL 790
DEPTH = 3/8" MIN.

EXTERIOR

FRAME WIDTH

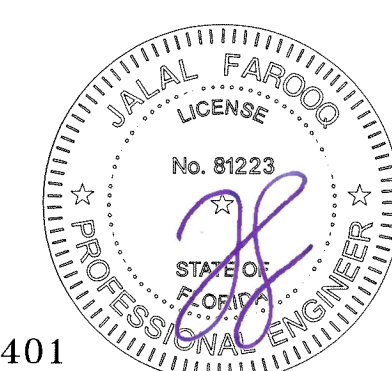
14" MAX.

14" MAX.

SPLICE
AS REQD.

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FL #27401



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19-18F

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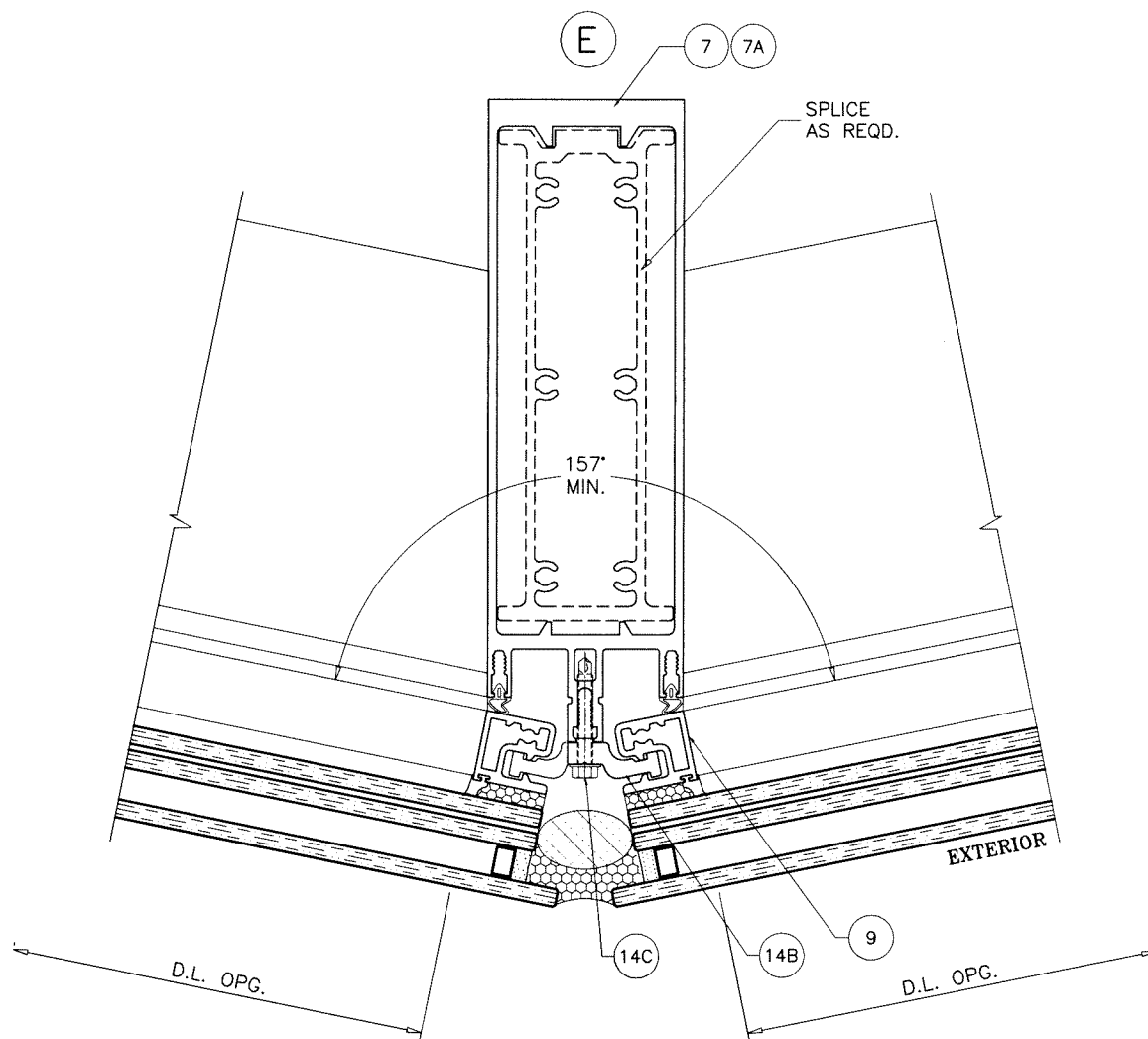
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chk. by:

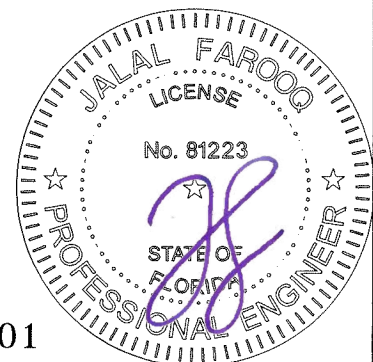
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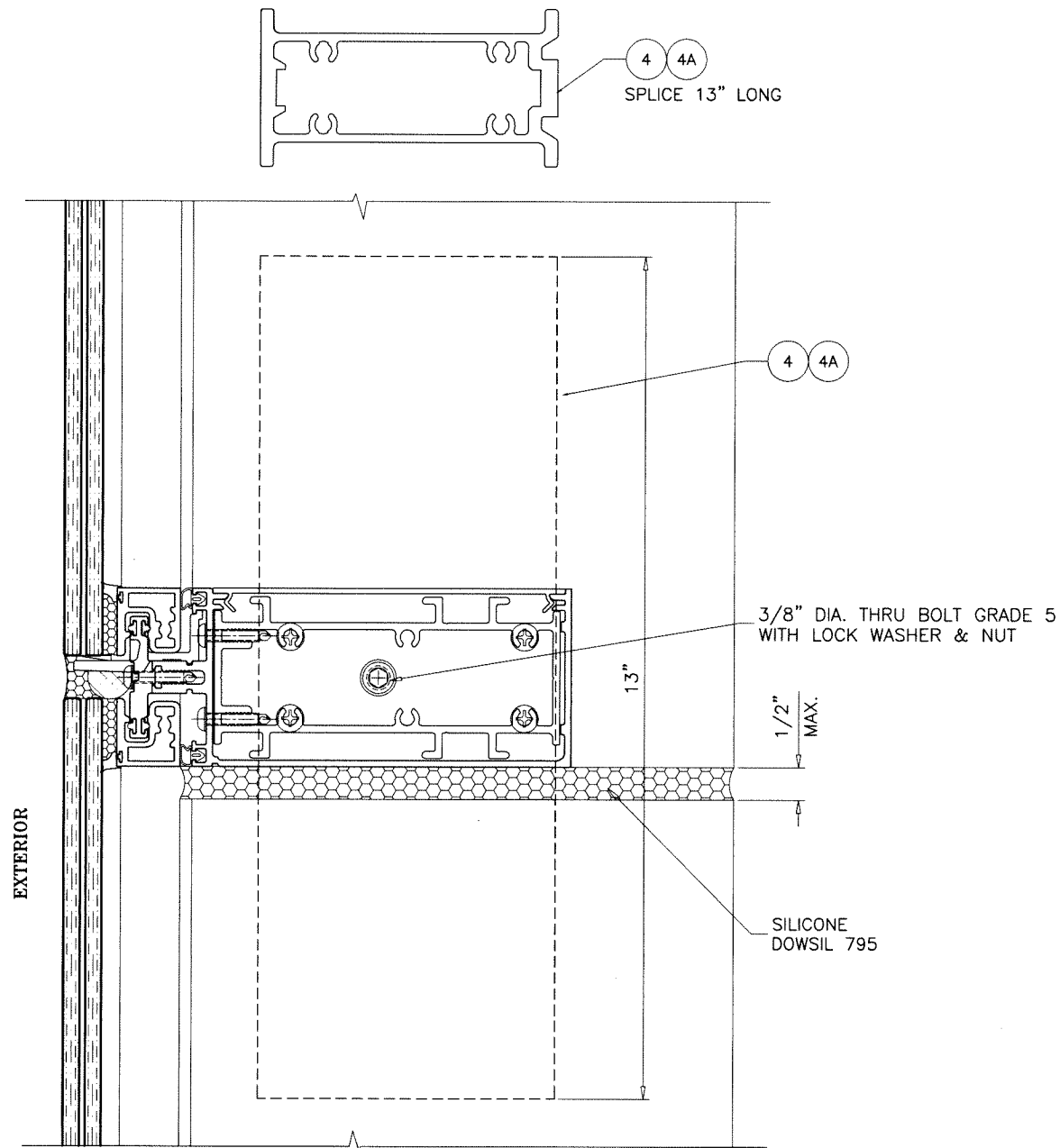
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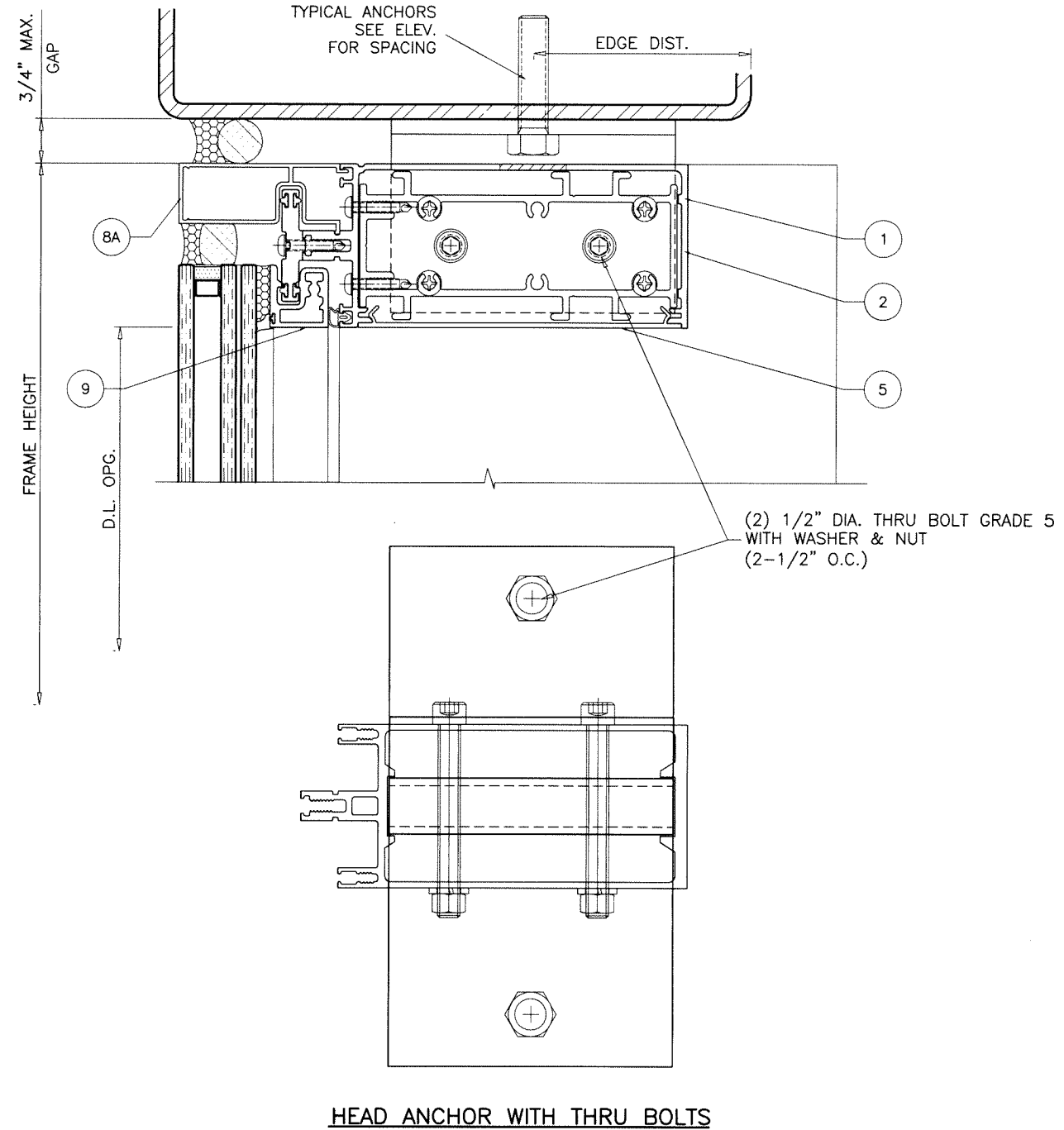
FL #27401



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drawing no.			
19-18F			
sheet 11.1 of 21			



EXPANSION JOINT DETAIL



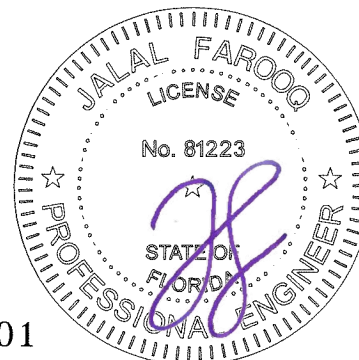
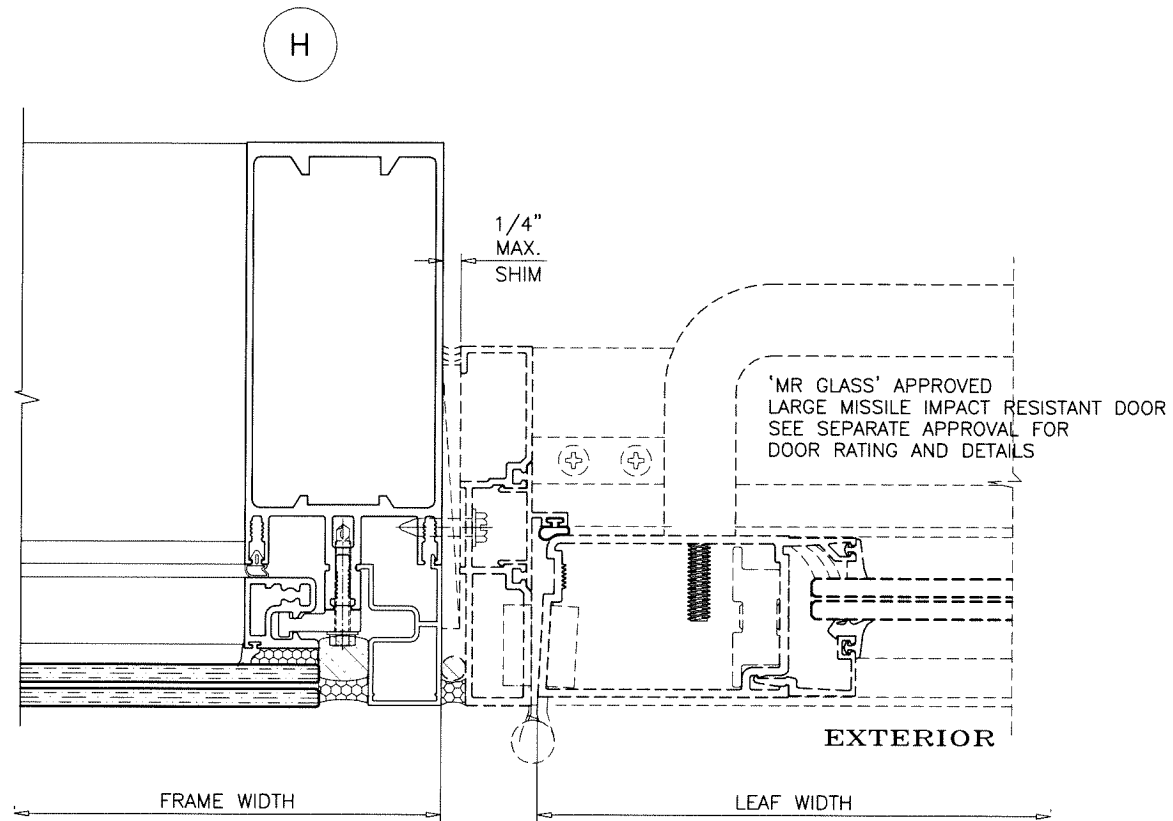
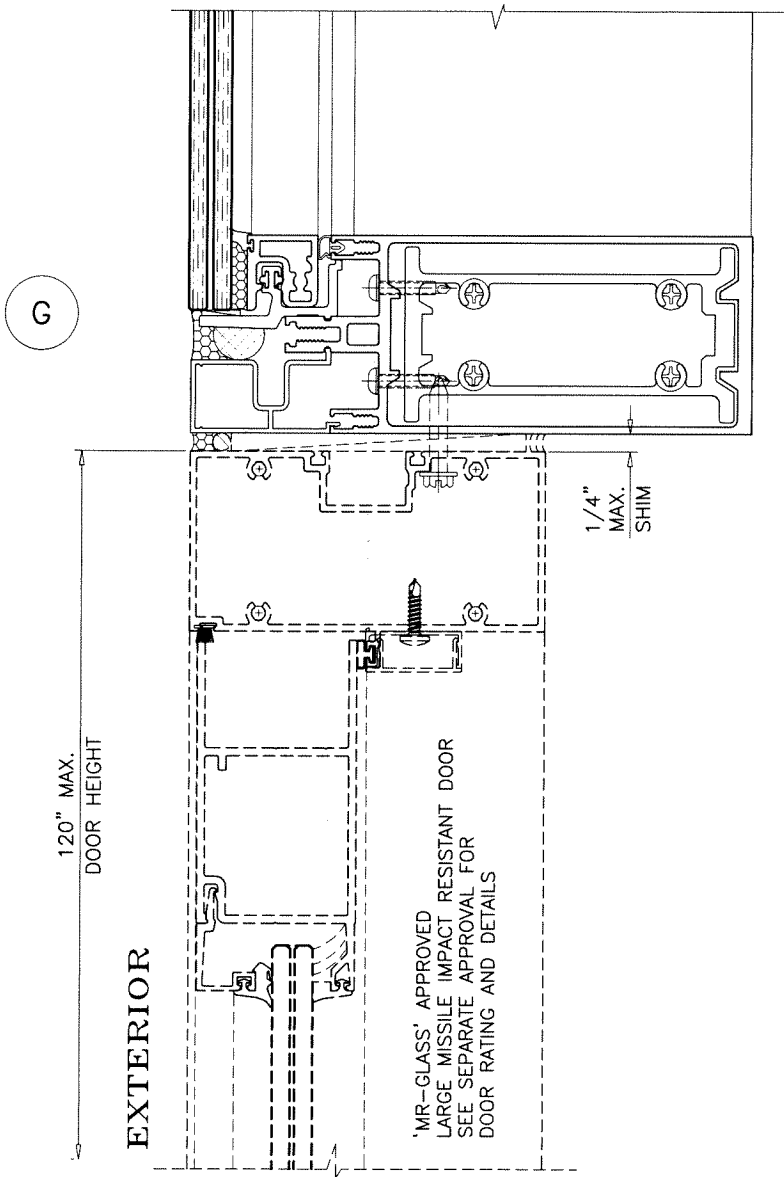
HEAD ANCHOR WITH THRU BOLTS

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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 Tel. (305) 764-3963 Fax. (305) 470-8285			
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FL #27401

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8051 N.W. 79th Place

Medley, FL. 33166

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Fax. (305) 470-8285

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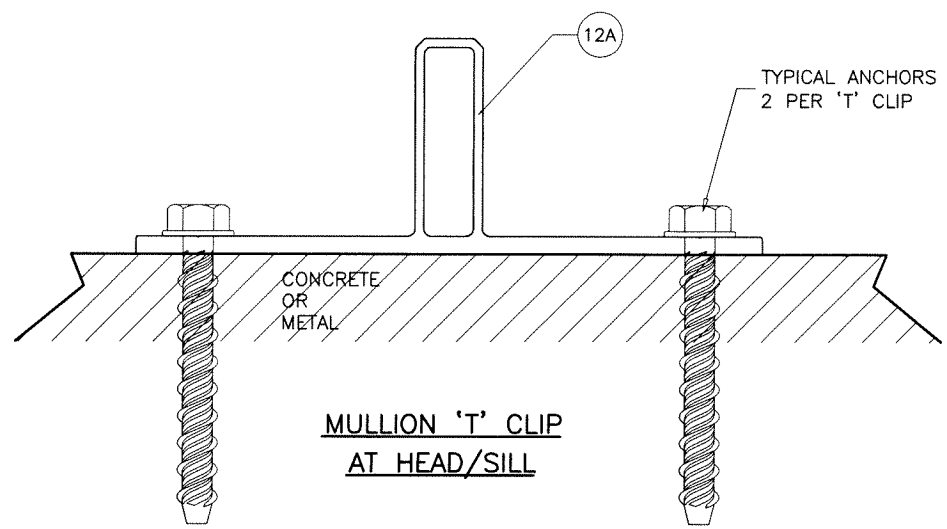
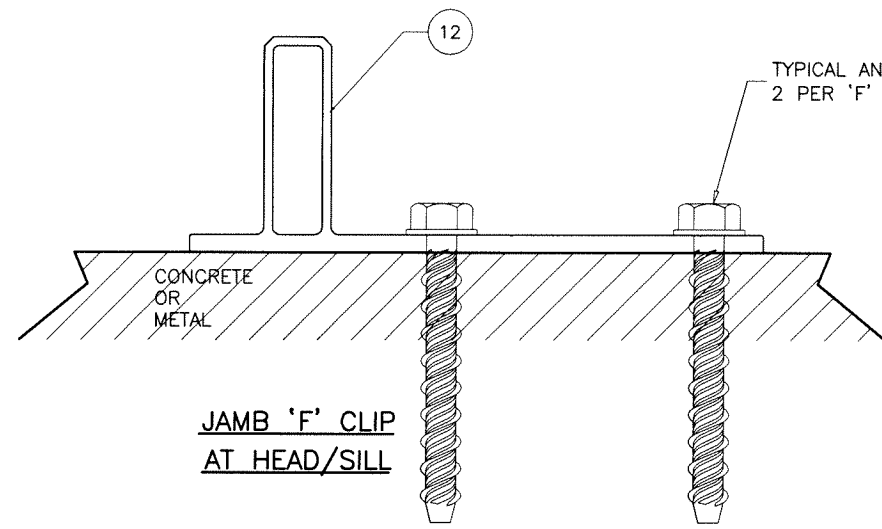
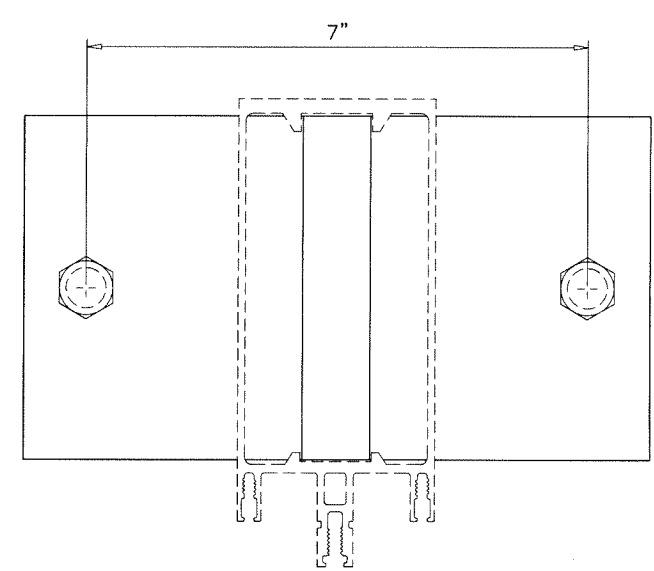
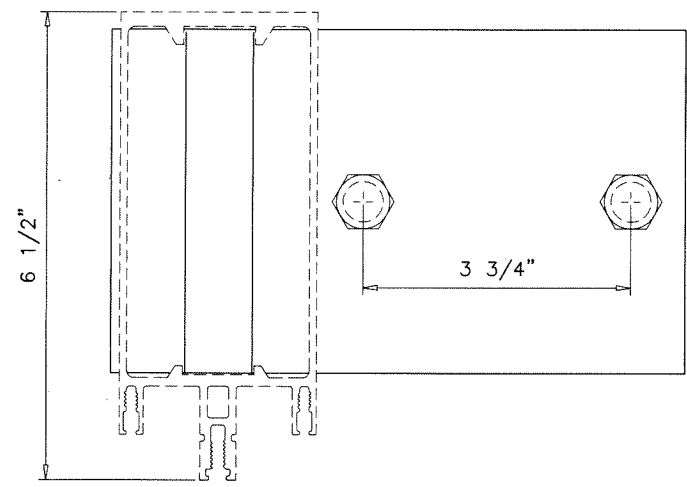
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sheet 12 of 21



ANCHORS TYPE 'A'



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

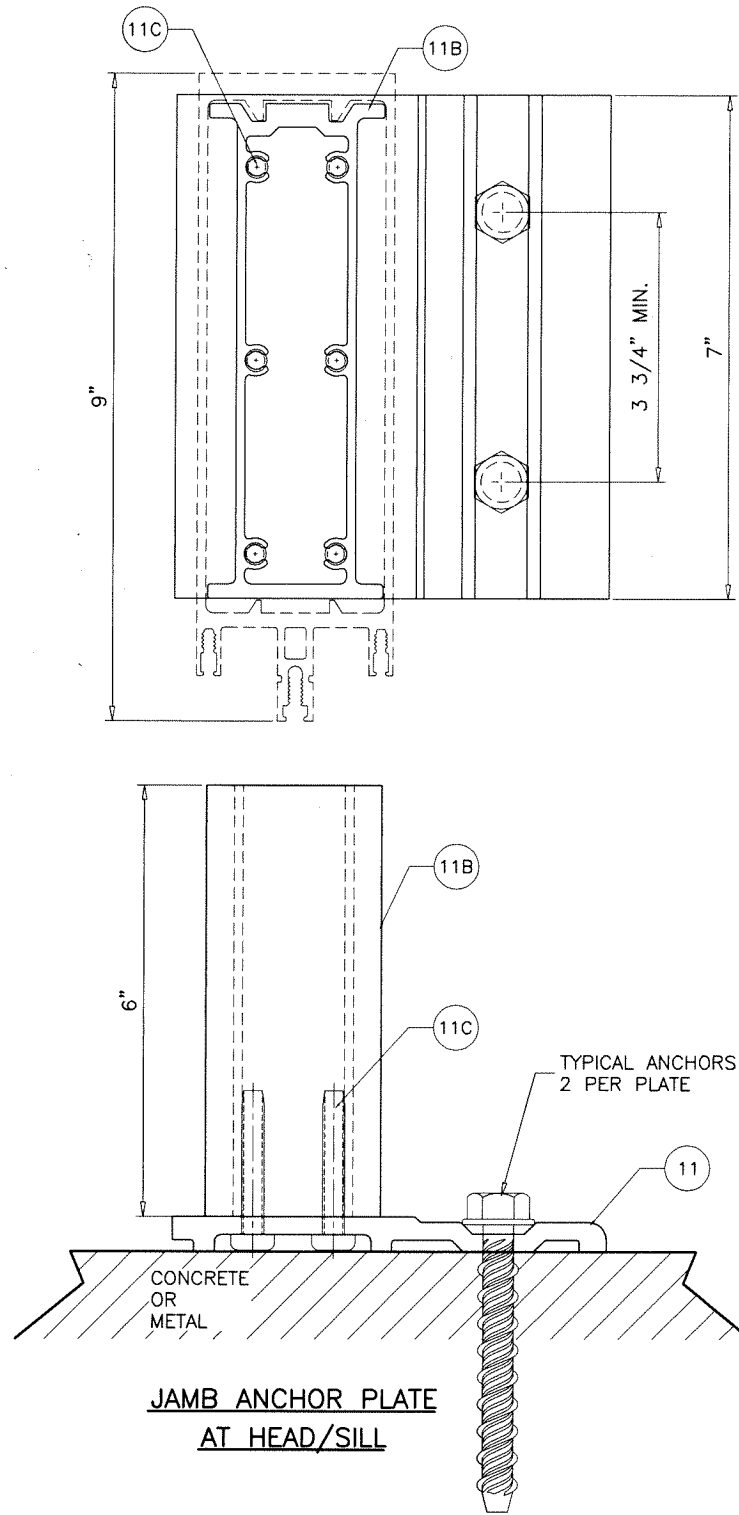
MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC
8051 N.W. 79th Place
Medley, FL. 33166
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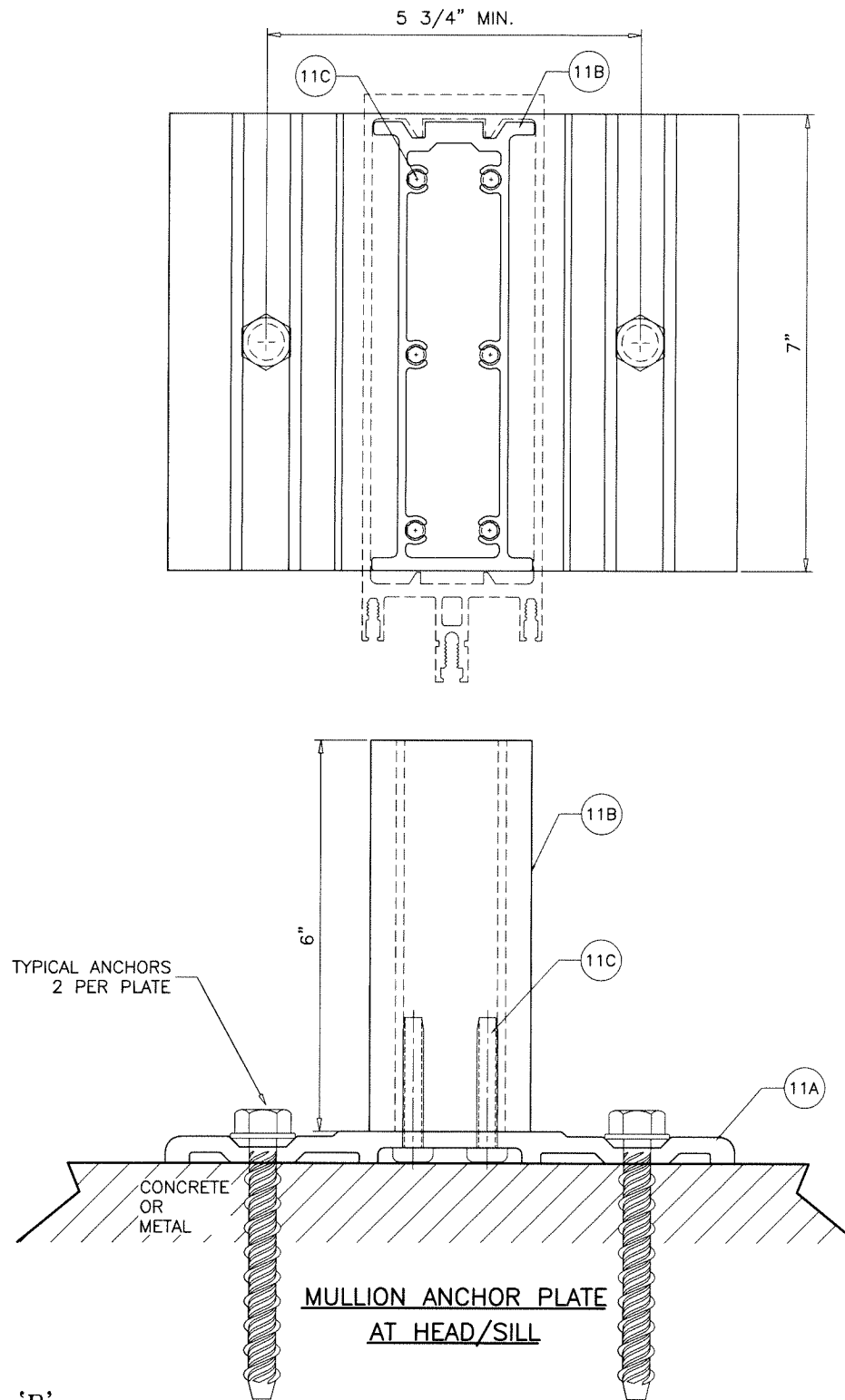
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19-18F
sheet 13 of 21



ANCHORS TYPE 'B'

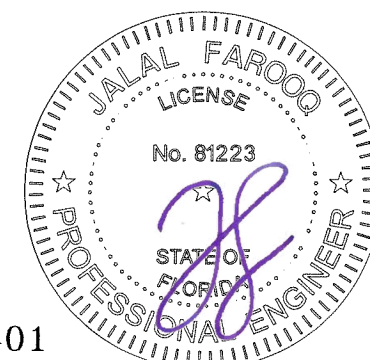
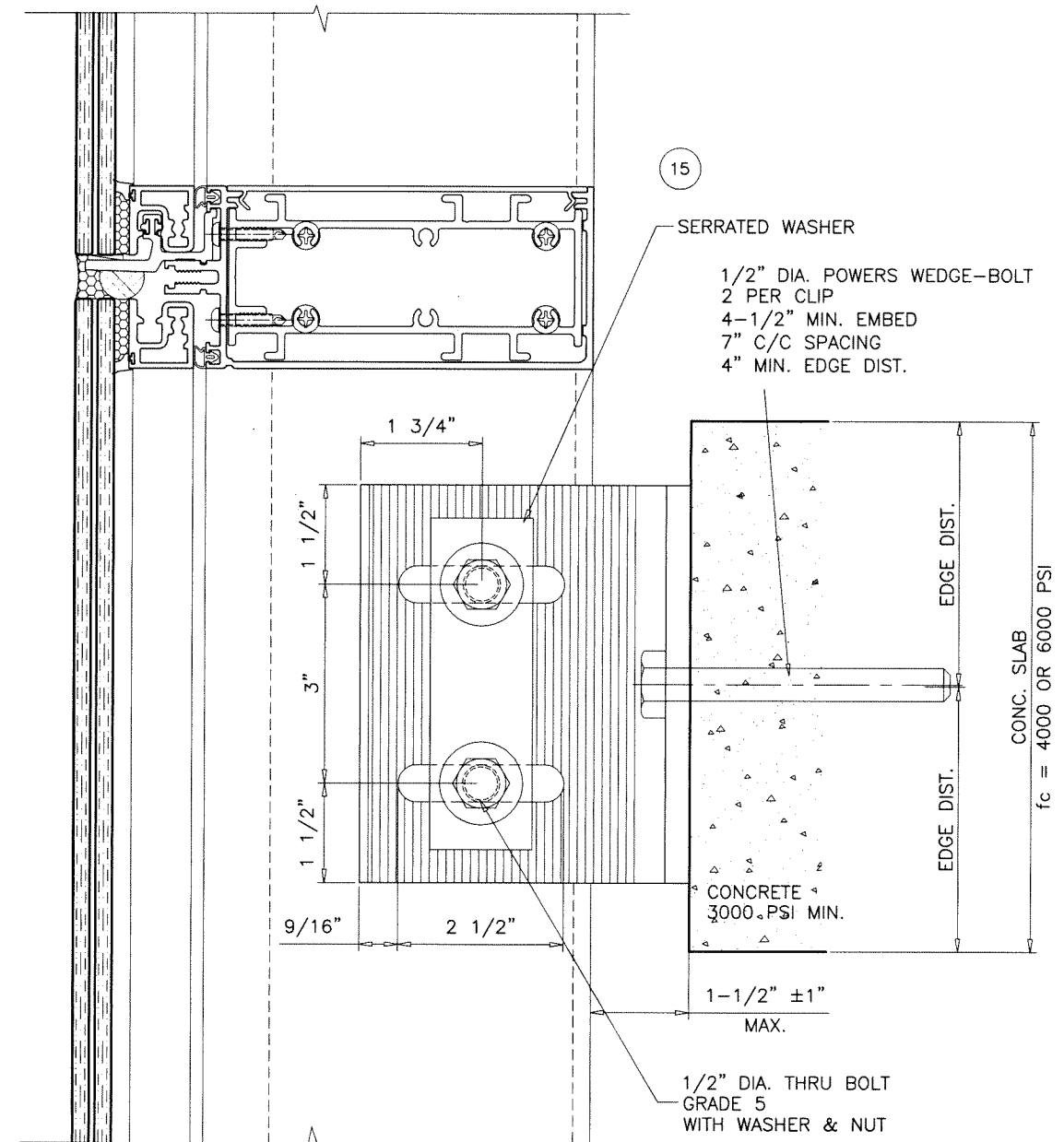
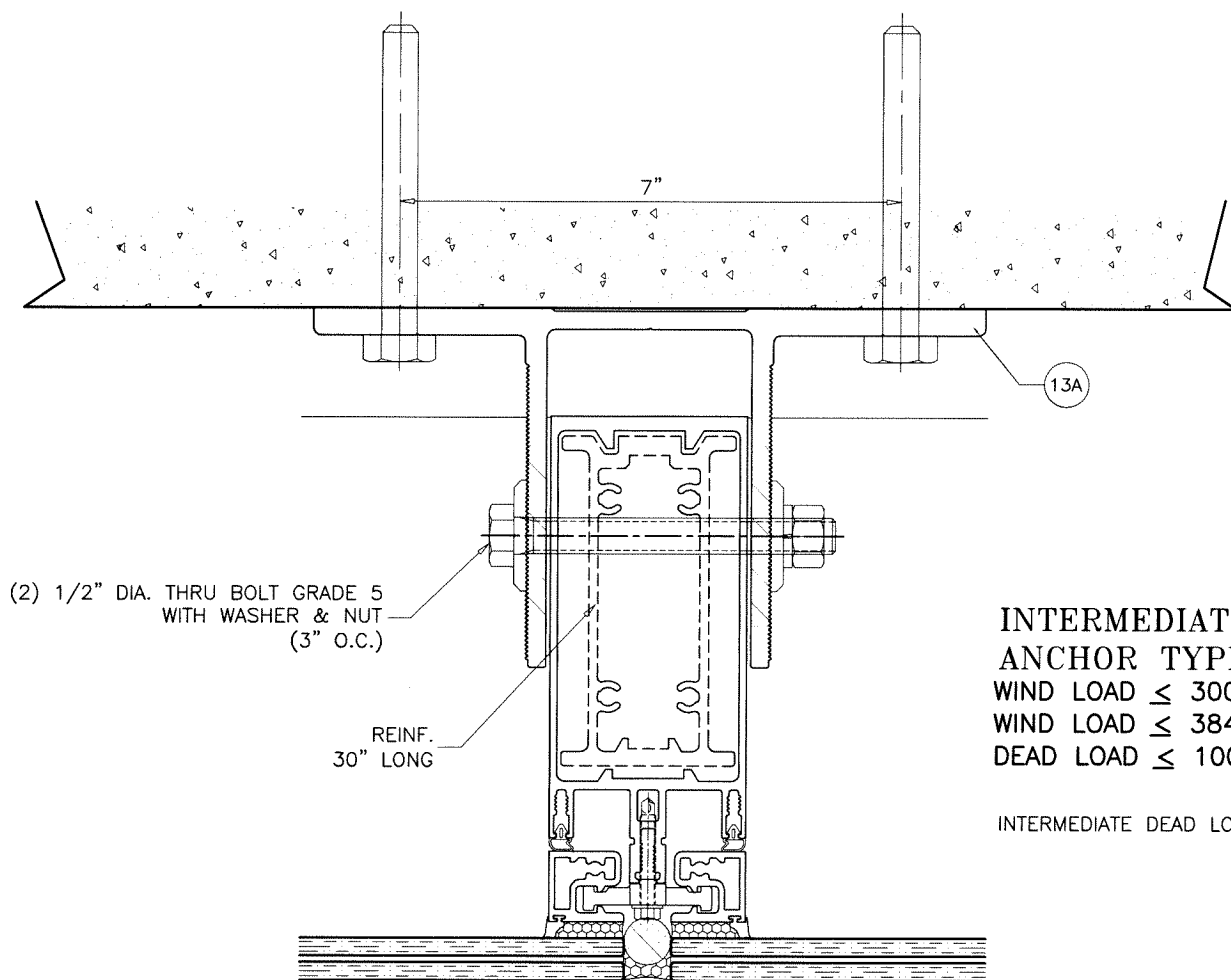
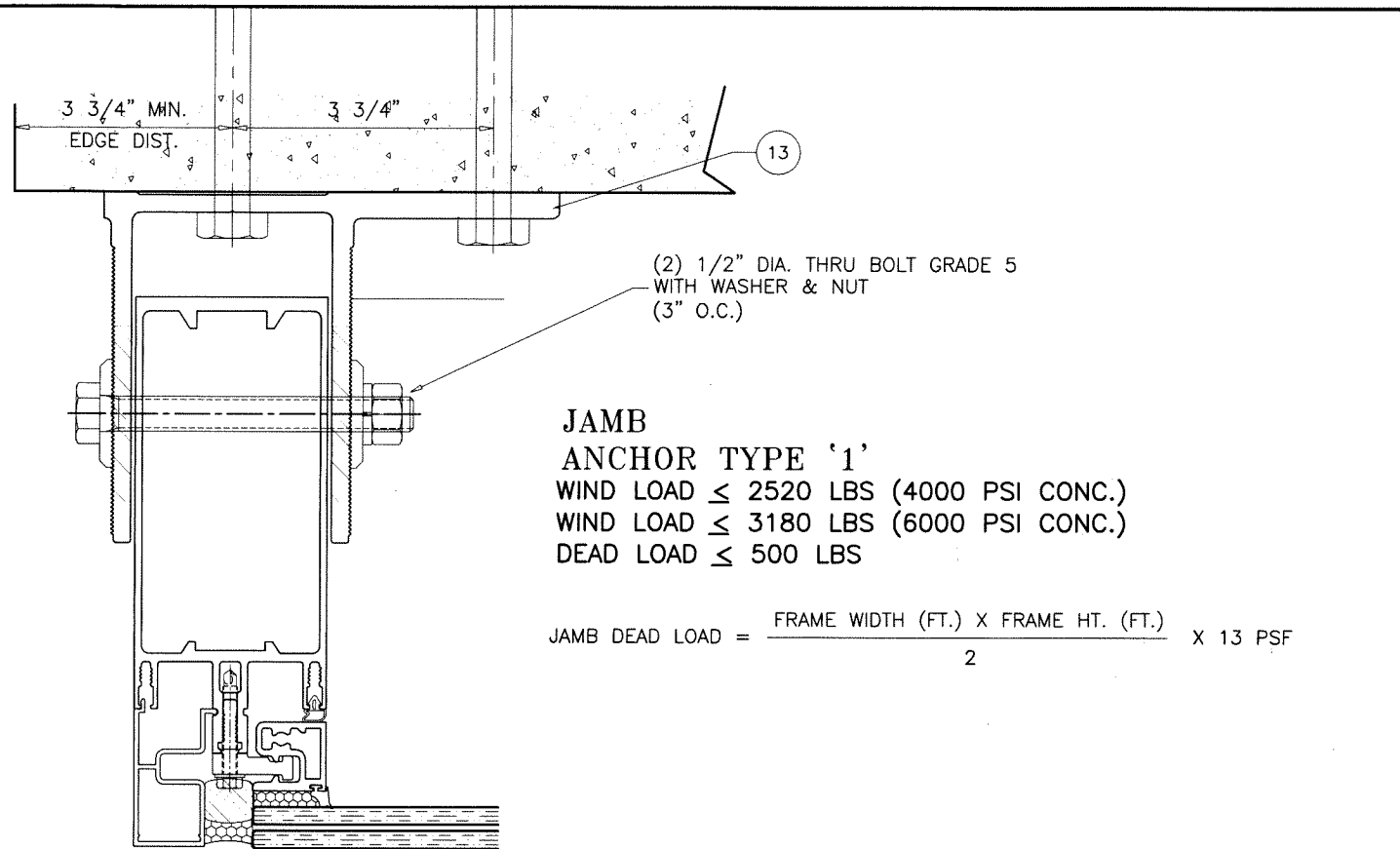


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SERIES 2000 STICK ALUM. CURTAIN WALL SYS. (L.M.I.) MR-GLASS DOORS & WINDOWS MANUFACTURING, LLC 8051 N.W. 79th Place Medley, FL. 33166 Tel. (305) 764-3963 Fax. (305) 470-8285																					
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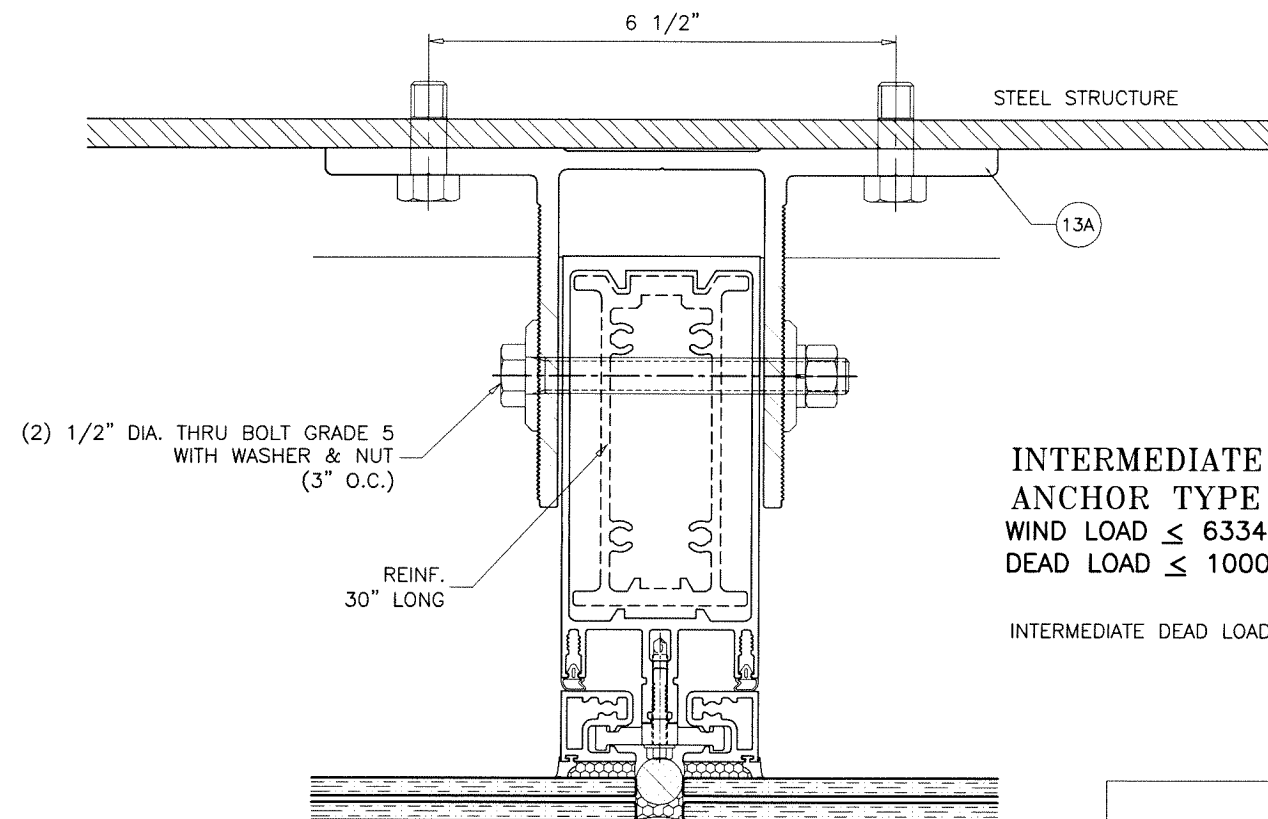
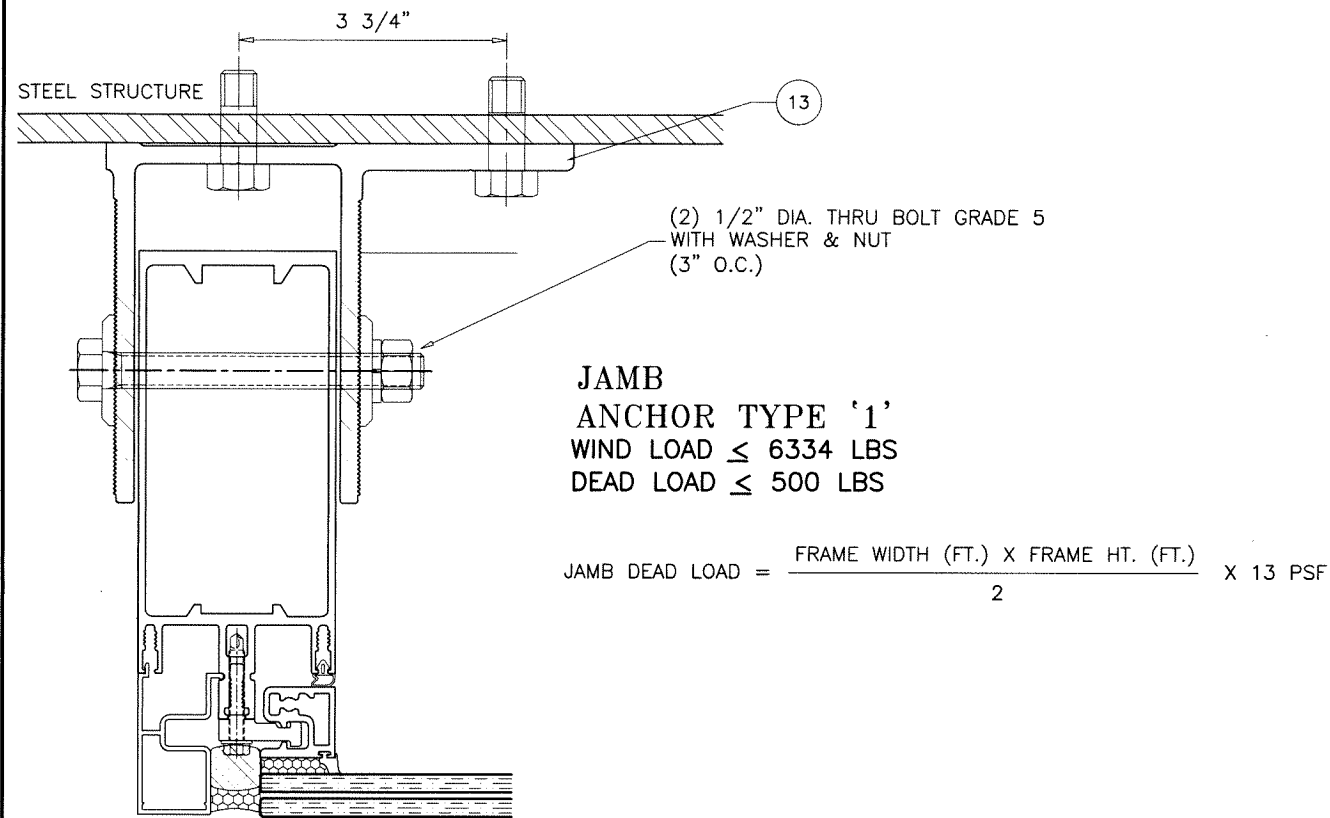
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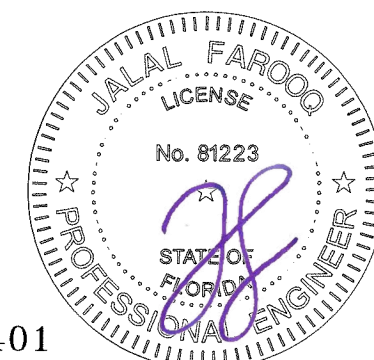
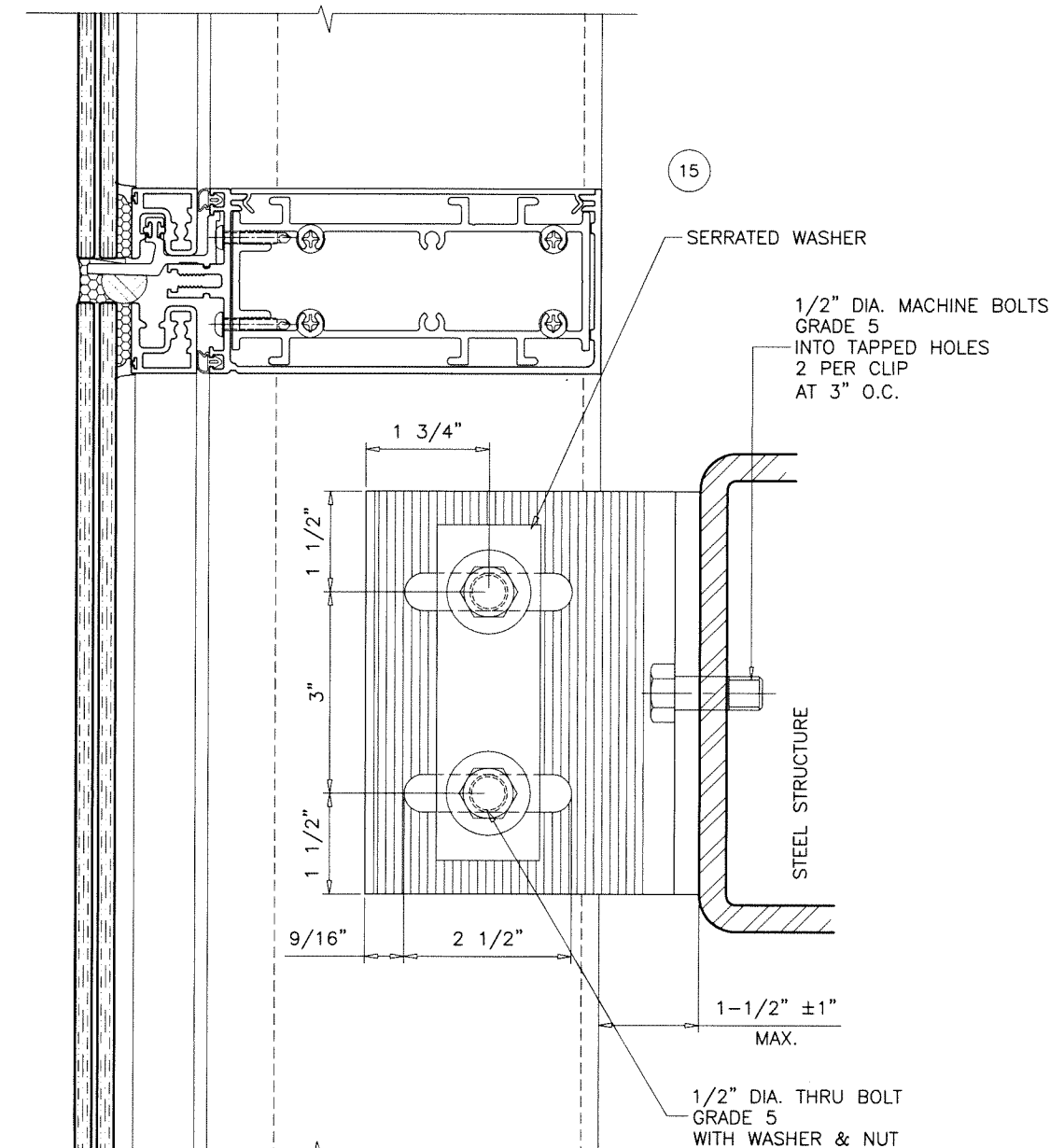
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19-18F

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DEAD LOAD ANCHOR



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



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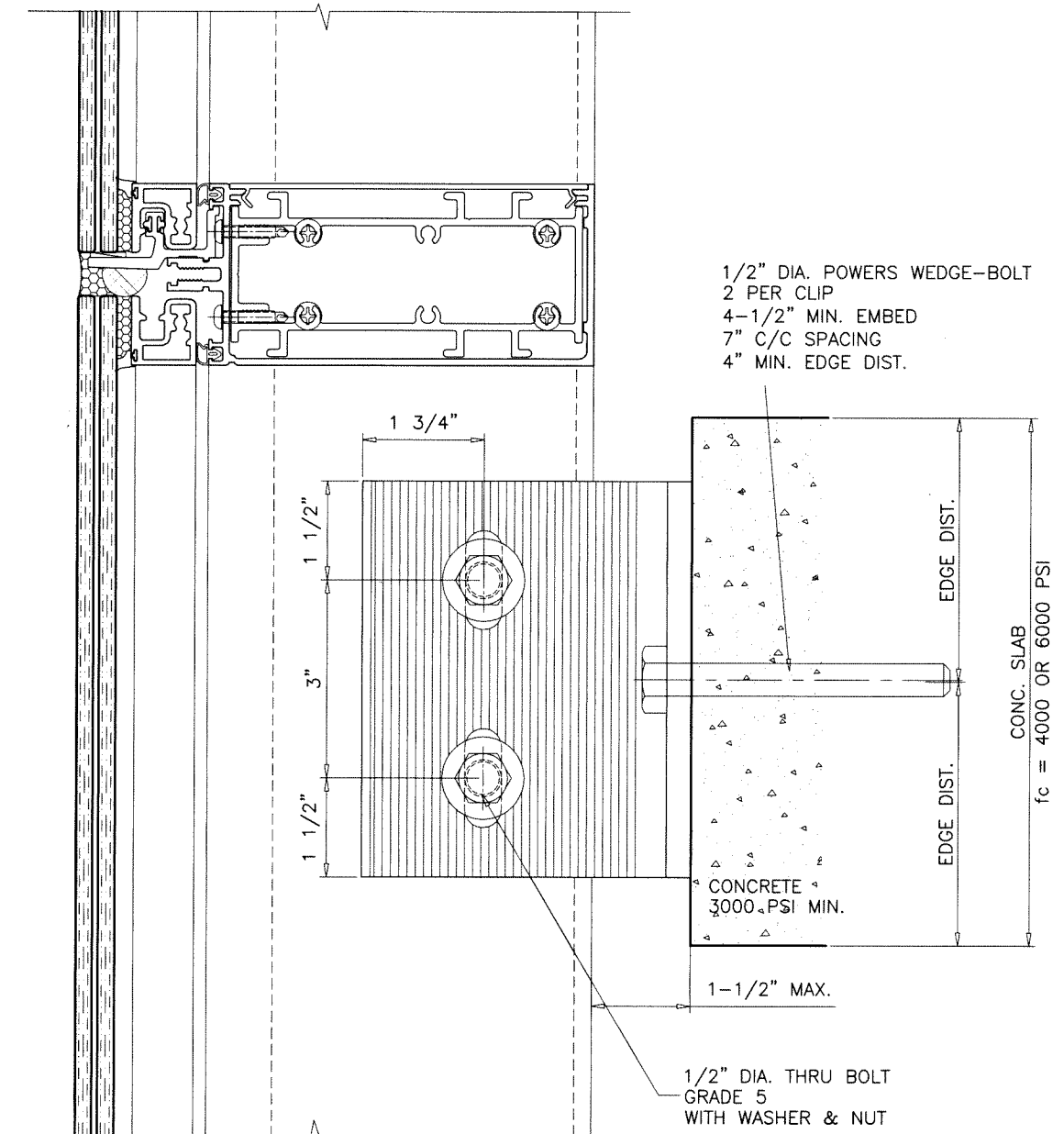
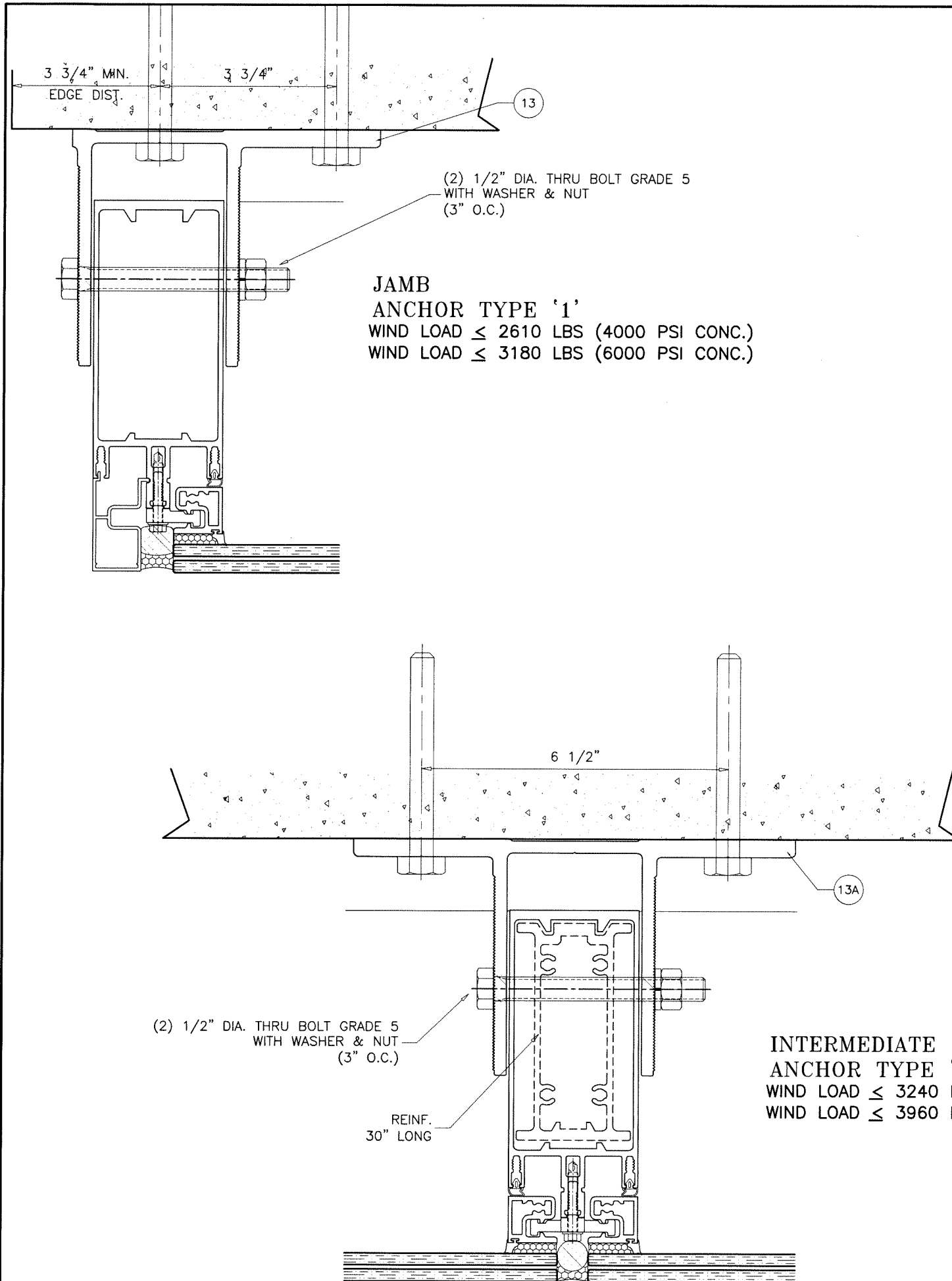
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19-18F
sheet 16 of 21

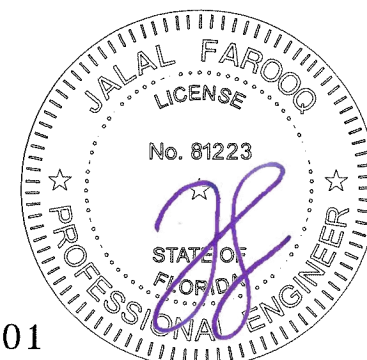


INTERMEDIATE ANCHORS

WIND LOAD ANCHOR

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Revisions:	
no	date by description

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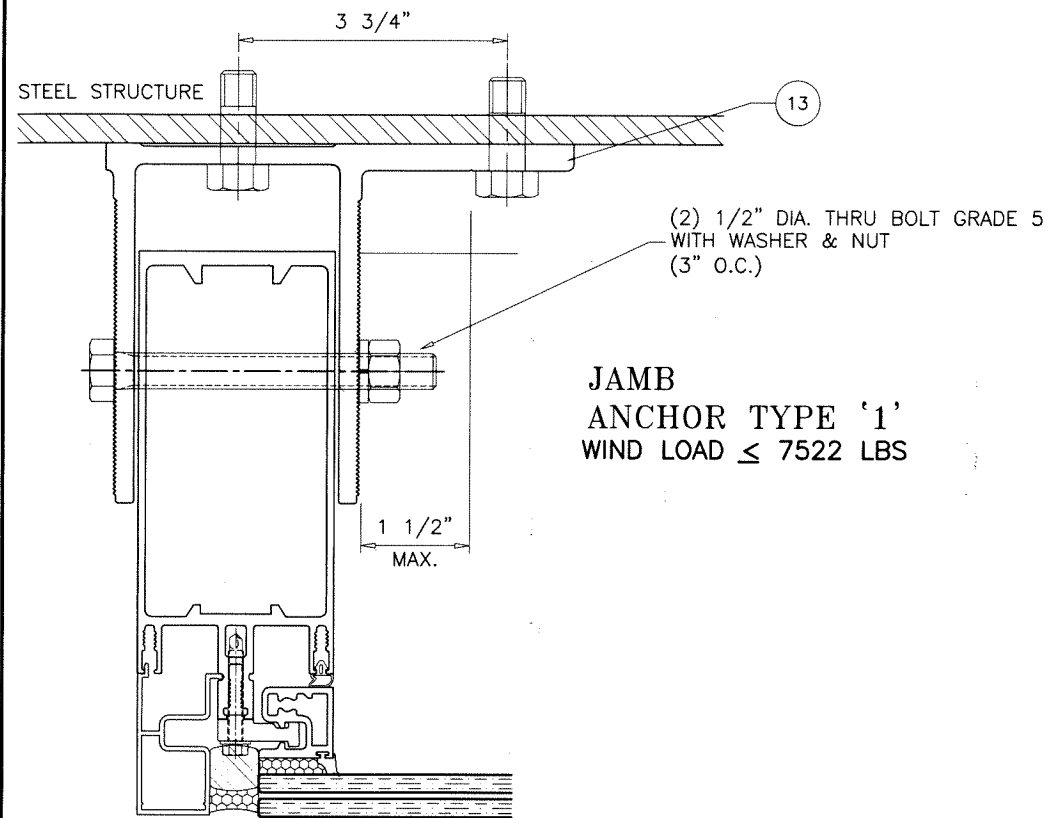
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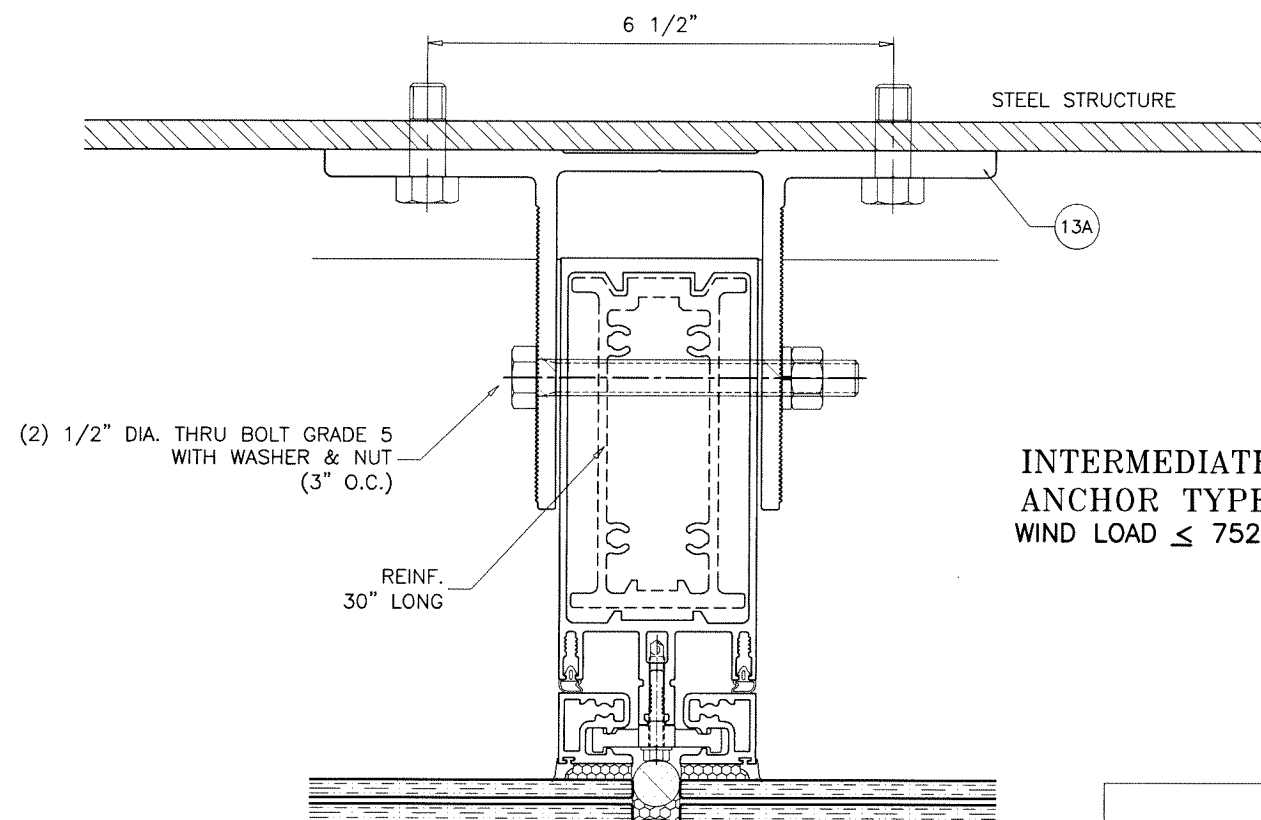
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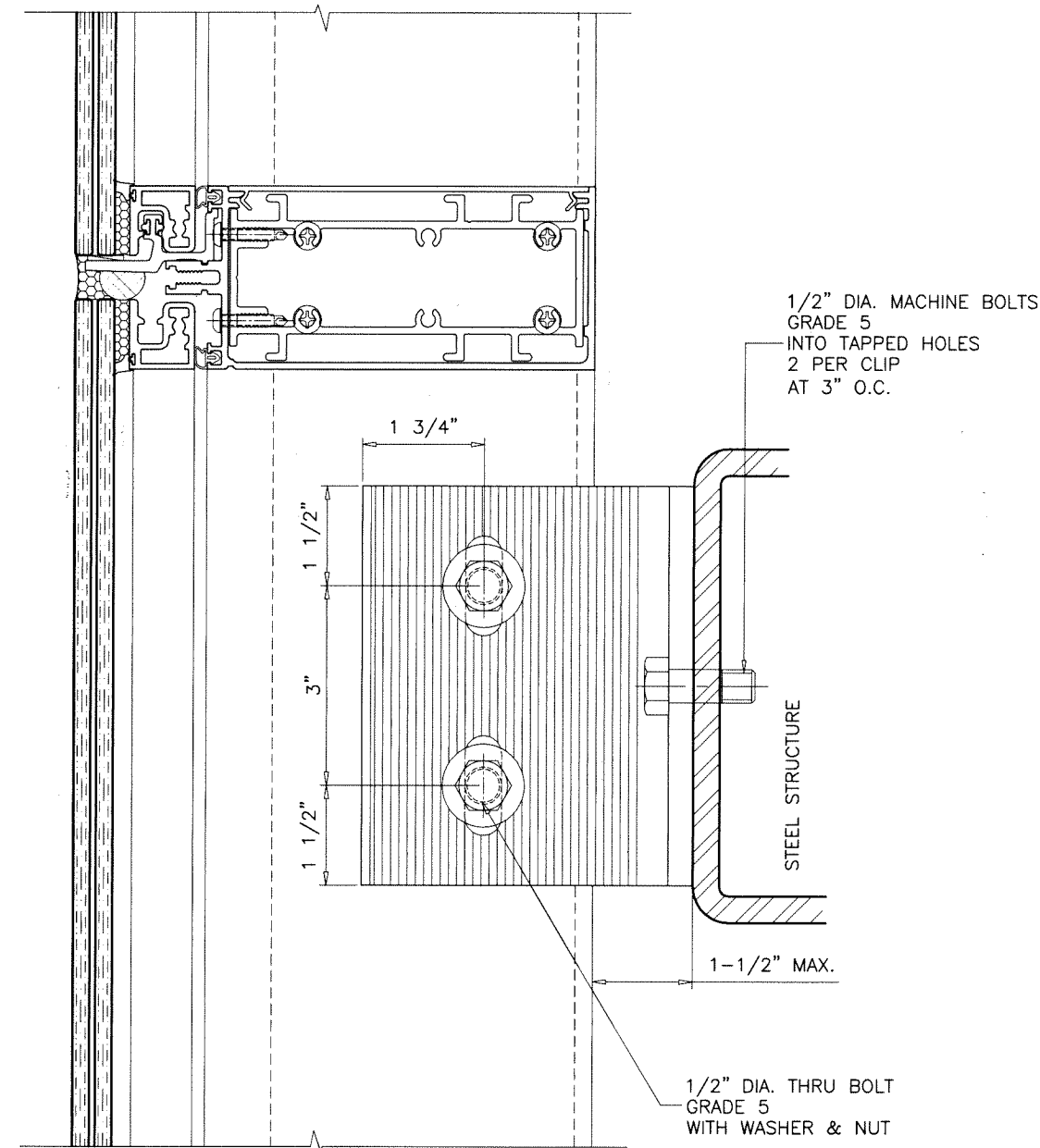
sheet 17 of 21



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



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

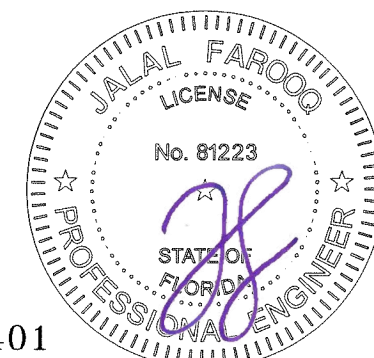


INTERMEDIATE ANCHORS

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

Sealed: 3/18/2024

FL #27401



afc

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
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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
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revisions:		date:		no date		by description	
		03-15-19					
		scale:	3/8" = 1"				
		dr. by:	TARIQ				
		chk. by:					
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COMP-ANL 19-18F-MG

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-2033A	AS REQD.	RETAINER CLIP, 2" LONG, AT 18" O.C. MAX.	6063-T5	—
14B	E-2033B	AS REQD.	RETAINER CLIP, 4-1/2" LONG, AT 18" O.C. MAX.	6063-T5	—
14C	#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.



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1 FRAME HEAD/SILL/HORIZONTAL

2 SHEAR BLOCK

5 FRAME COVER

8 POCKET FILLER
(LAM. GLASS)

8A POCKET FILLER
(INSUL. LAM. GLASS)

6 SITTING SHELF
(LAM. GLASS)

6A SITTING SHELF
(INSUL. LAM. GLASS)

21 DECORATIVE CAP

3 JAMB/MULL/HORIZ. REINF. SPLICE

7 FRAME JAMB/MULLION/HORIZ.

3A JAMB/MULL REINF. SPLICE

7A FRAME JAMB/MULLION

3C REINF. CHANNEL

9 SUB FRAME

10 SUB FRAME CORNER KEY

14 RETAINER CLIP

14A RETAINER CLIP

14B RETAINER CLIP

15 SERRATED WASHER

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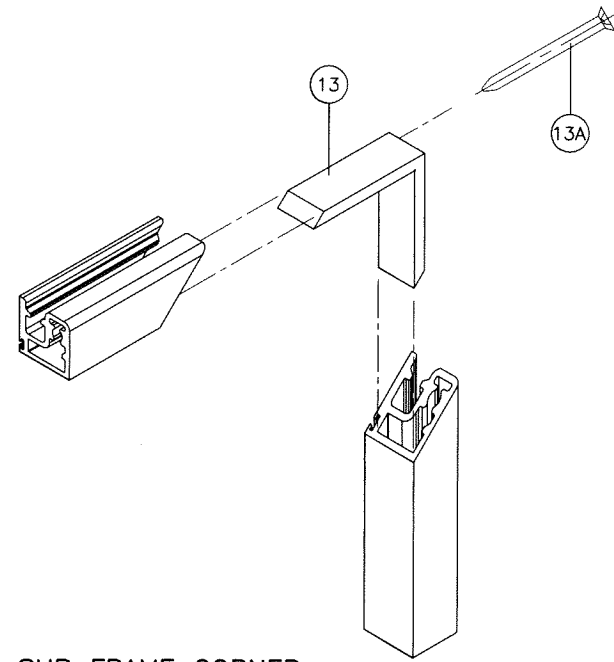
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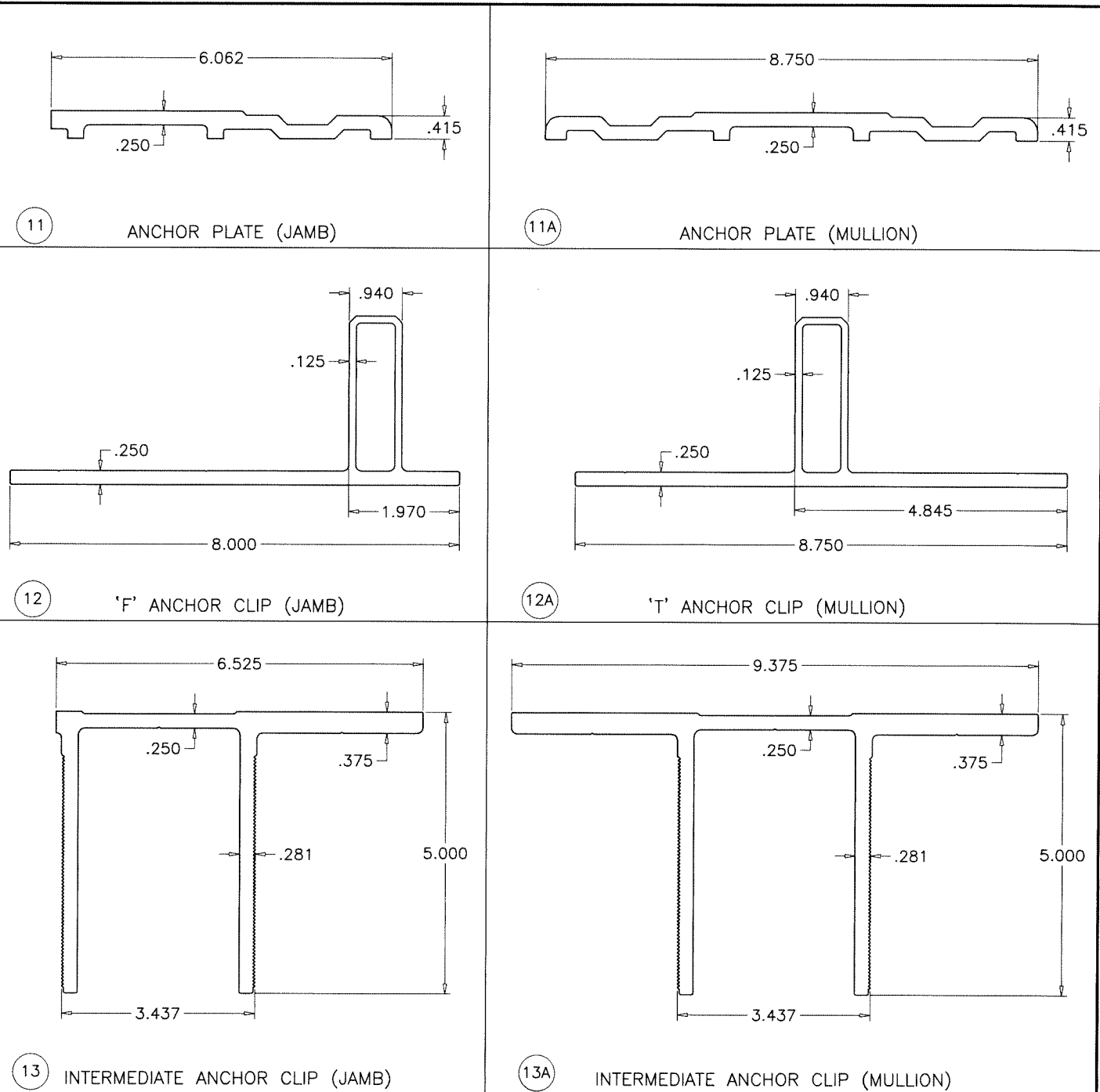
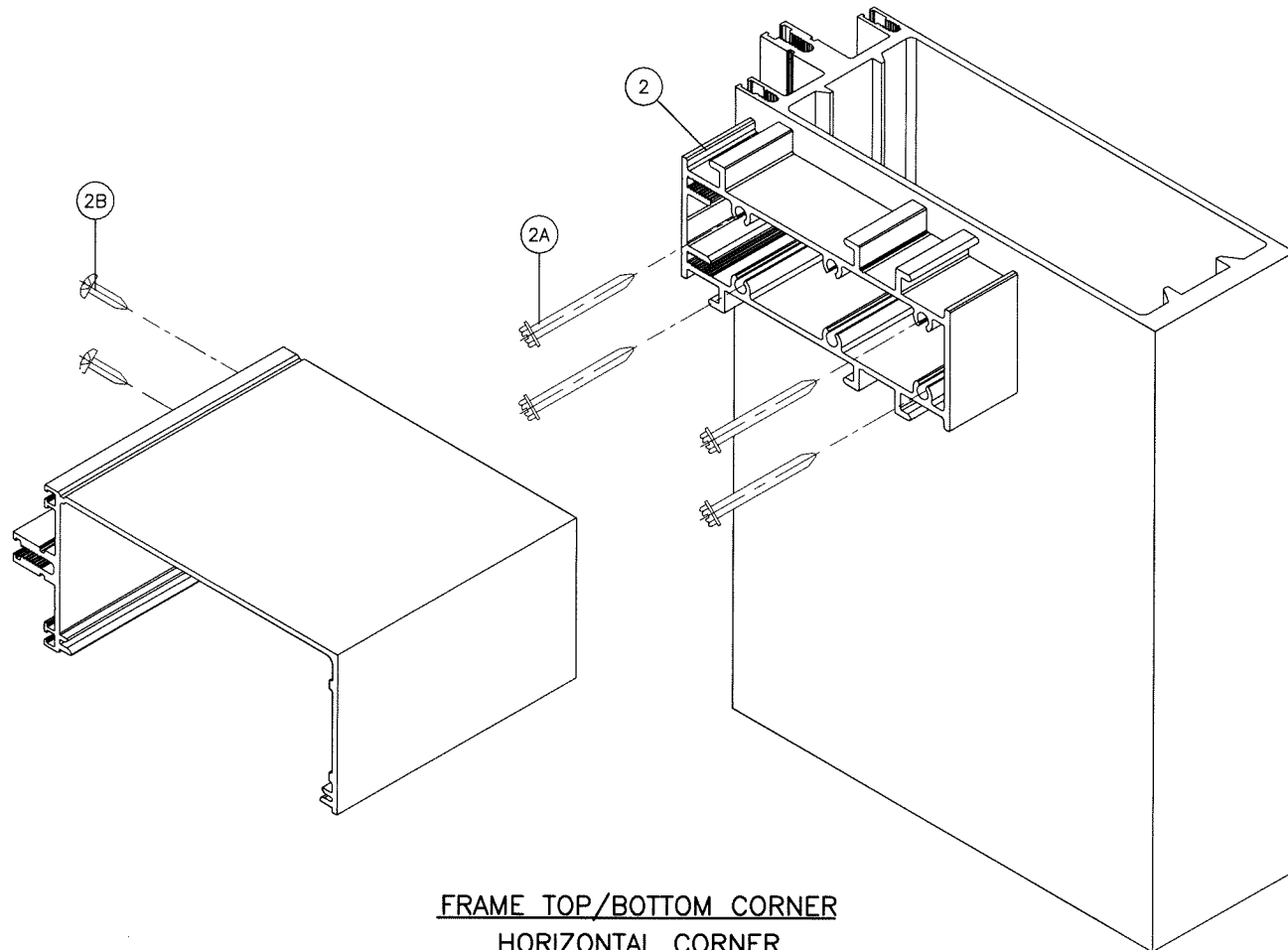
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SUB FRAME CORNER

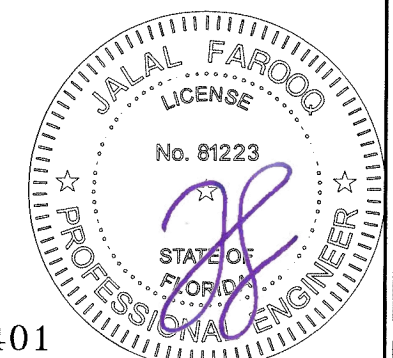


FRAME TOP/BOTTOM CORNER
HORIZONTAL CORNER



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