

*** PRODUCTS DEPICTED ARE THE PROPERTY OF SCHUCO USA L.L.L.P
USE OF THIS PRODUCT REQUIRES WRITTEN AUTHORIZATION BY SCHUCO USA L.L.L.P.
TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A PERMIT. ***

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

AWS65/70/75/90 STOREFRONT SYSTEM (L.M.I.)

DESIGN LOAD RATING FOR STOREFRONT TO BE THE MINIMUM OF
GLASS CAPACITY ON THIS SHEET OR CHARTS ON SHEET 4.

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).

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

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.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

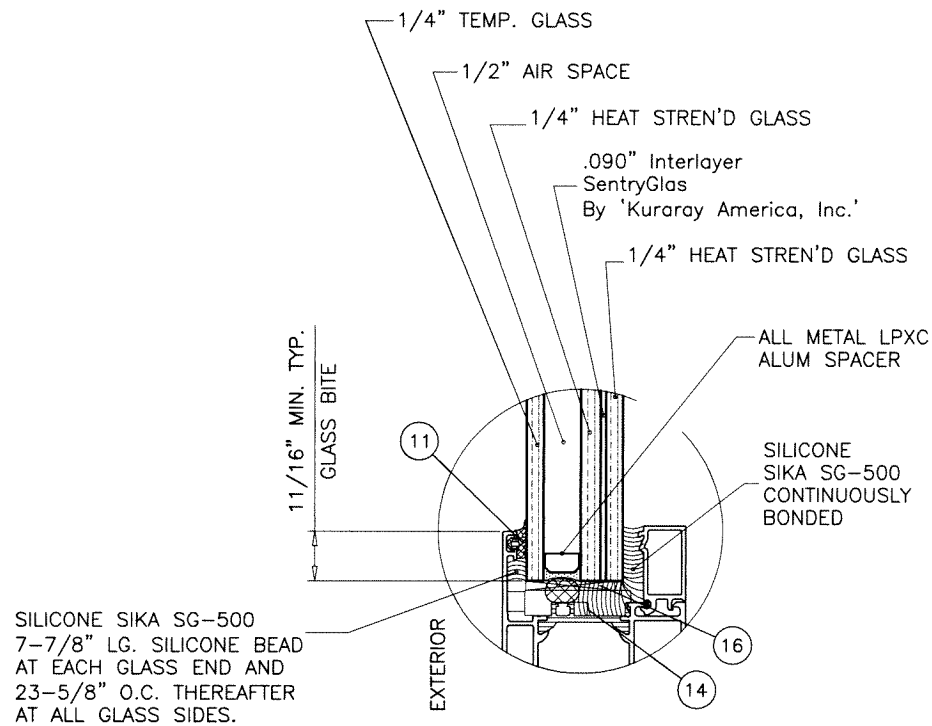
ALL SHIMS TO BE HIGH IMPACT, NON-METALLIC AND NON-COMPRESSIBLE.

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.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION
IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE.
LABELING TO COMPLY WITH SECTION 1709.9.2.

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



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

GLASS DESIGN LOAD CAPACITY - PSF		
WINDOW DIMS.		GLASS TYPE '1'
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+) INT.(-)
37-7/8"	103-1/4"	65.0
43-7/8"		65.0
49-7/8"		65.0
55-7/8"		65.0
61-7/8"		59.1
67-7/8"		54.2
37-7/8"	115-1/4"	65.0
43-7/8"		65.0
49-7/8"		65.0
55-7/8"		65.0
61-7/8"		59.1
67-7/8"		54.2
31-7/8"	127-1/4"	65.0
37-7/8"		65.0
43-7/8"		65.0
49-7/8"		65.0
55-7/8"		65.0
31-7/8"	139-1/4"	65.0
37-7/8"		65.0
43-7/8"		65.0
49-7/8"		65.0
55-7/8"		65.0

DAYLITE OPENINGS
FRAME HEIGHT - 4.750"
FRAME WIDTH - 4.125"

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

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.



Sealed: 7/24/2023

FL #29717

afcc

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)

AWS 65/70/75/90 STOREFRONT SYSTEM (L.M.I.)

Schuco USA L.L.L.P.
240 Pane Road
Newington, CT. 06111
Phone: (860) 666-0505 Fax: (860) 616-0188

revisions:

no	date	by	description
A	10.13.20	ML	UPDATED TO 2020 FBC
B	07.05.23		UPDATED TO 2023 FBC

date: 06-17-19

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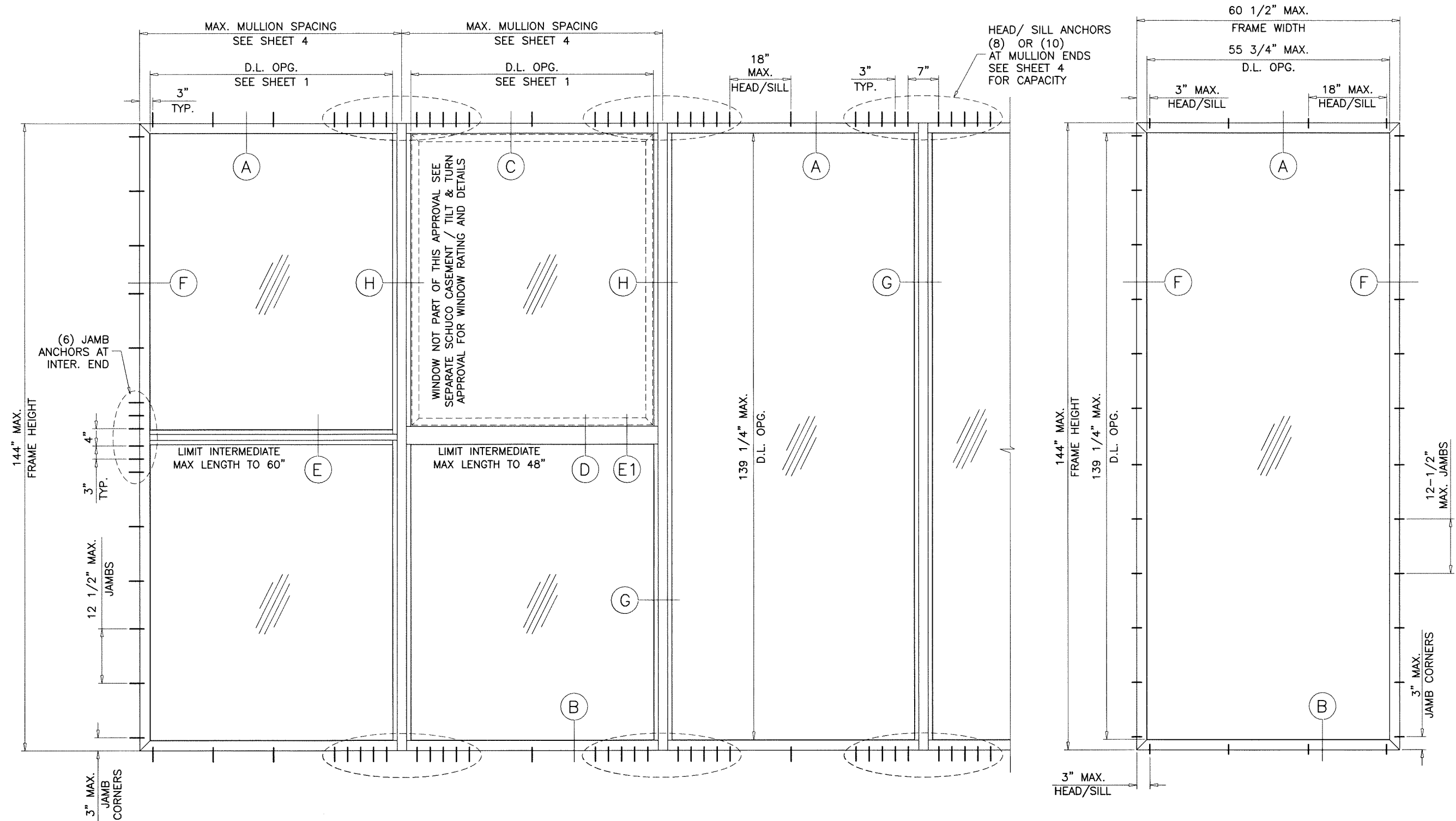
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chk. by:

drawing no.

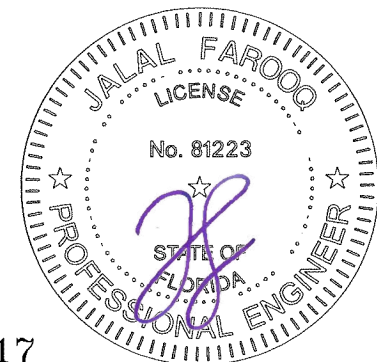
19-49F

sheet 1 of 12



TYPICAL ELEVATION
MULLION M1

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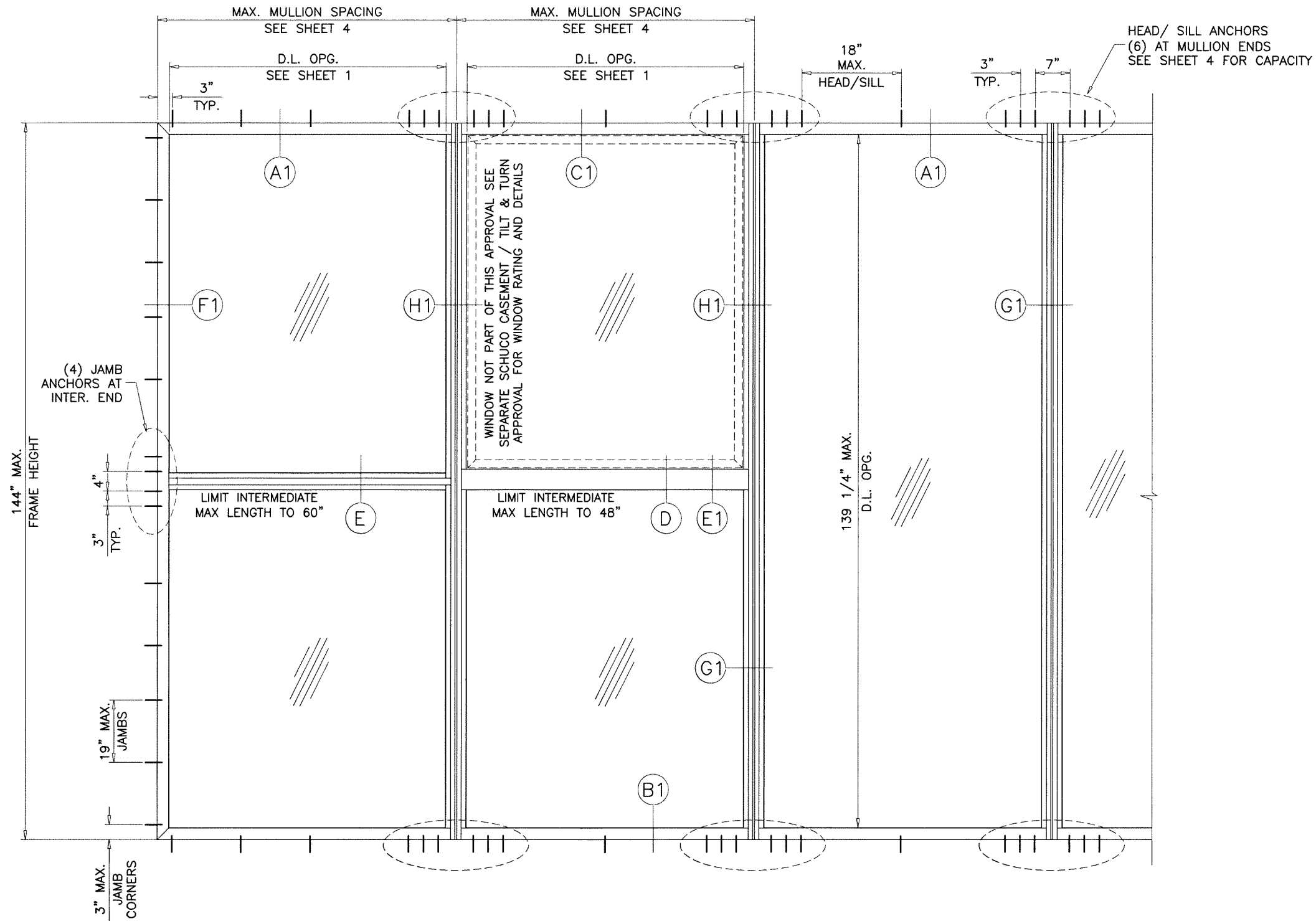
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		chk. by:			

drawing no.
19-49F

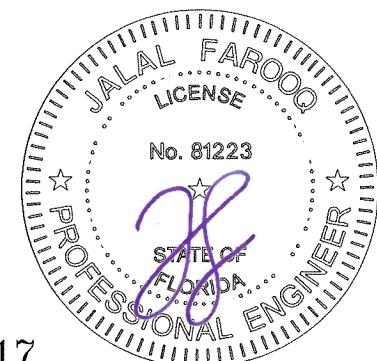
Sheet 2 of 12

COMP-ANL\19-49F-SUL



TYPICAL ELEVATION
MULLION M2

Sealed: 7/24/2023



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AWS 65/70/75/90 STOREFRONT SYSTEM (L.M.I.)

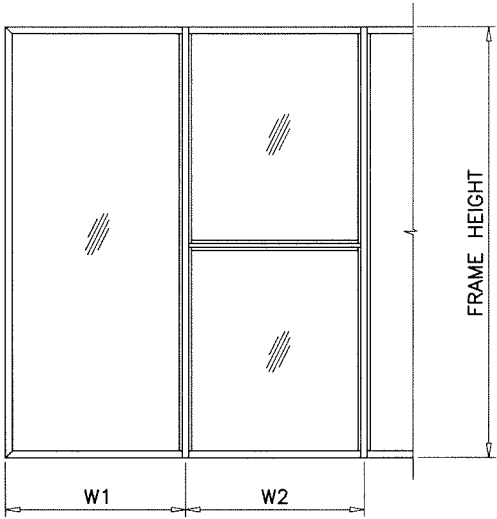
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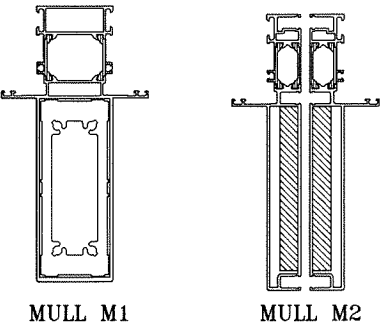
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					19-49F
					sheet 3 of 12

MULLION DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		MULLION M1		MULLION M2	
WIDTH (W) INCHES	HEIGHT INCHES	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
36	108	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0
66		65.0	65.0	65.0	65.0
72		65.0	65.0	65.0	65.0
36	120	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0
66		-	-	65.0	65.0
72		-	-	65.0	65.0
36	132	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0
60		-	-	65.0	65.0
66		-	-	65.0	65.0
72		-	-	65.0	65.0
36	144	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0
60		-	-	65.0	65.0
66		-	-	65.0	65.0



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

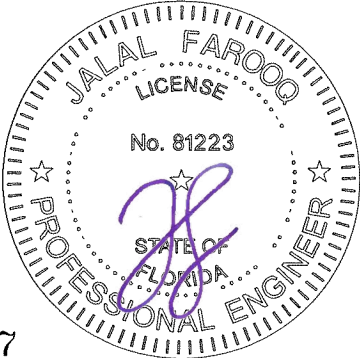


MULL M1

MULL M2

HEAD / SILL ANCHOR DESIGN LOAD CAPACITY - PSF													
NOMINAL DIMS.		THROUGH FRAME (W/O STRAPS)								THROUGH STRAPS		THROUGH ANGLE	
		1/4" SHIM				3/8" SHIM				1/4 OR 3/8" SHIM		1/4 OR 3/8" SHIM	
		ANCHOR TYPES 'A' & 'B'		ANCHOR TYPE 'C'		ANCHOR TYPES 'A' & 'B'		ANCHOR TYPE 'C'		ANCHOR TYPES 'A', 'B' & 'C'		ANCHOR TYPES 'A', 'B' & 'C'	
		8 ANCHORS AT MTG. STILES	10 ANCHORS AT MTG. STILES	8 ANCHORS AT MTG. STILES	10 ANCHORS AT MTG. STILES	8 ANCHORS AT MTG. STILES	10 ANCHORS AT MTG. STILES	8 ANCHORS AT MTG. STILES	10 ANCHORS AT MTG. STILES	8 ANCHORS AT MTG. STILES	10 ANCHORS AT MTG. STILES	6 ANCHORS AT MTG. STILES	
PANEL WIDTH NOMINAL INCHES	DOOR HEIGHT INCHES	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	108	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0	62.3	65.0	64.4	65.0	63.0	65.0	65.0	65.0
66		65.0	65.0	65.0	65.0	58.9	65.0	60.9	65.0	59.6	65.0	65.0	65.0
72		65.0	65.0	65.0	65.0	56.3	65.0	58.2	65.0	56.9	65.0	65.0	65.0
36	120	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	63.3	65.0	65.0	65.0	64.0	65.0	65.0	65.0
54		65.0	65.0	65.0	65.0	58.1	65.0	60.1	65.0	58.7	65.0	65.0	65.0
60		65.0	65.0	65.0	65.0	54.0	65.0	55.9	65.0	54.6	65.0	65.0	65.0
66		63.3	65.0	64.8	65.0	50.8	63.5	52.5	65.0	51.4	64.2	65.0	65.0
72		60.1	65.0	61.5	65.0	48.2	60.3	49.9	62.3	48.8	61.0	65.0	65.0
36	132	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	62.6	65.0	64.7	65.0	63.3	65.0	65.0	65.0
48		65.0	65.0	65.0	65.0	56.3	65.0	58.2	65.0	56.9	65.0	65.0	65.0
54		64.1	65.0	65.0	65.0	51.4	64.3	53.2	65.0	52.0	65.0	65.0	65.0
60		59.4	65.0	60.8	65.0	47.7	59.6	49.3	61.6	48.2	60.2	65.0	65.0
66		53.2	65.0	54.4	65.0	42.6	53.3	44.1	55.1	43.1	53.9	65.0	65.0
36	144	65.0	65.0	65.0	65.0	64.3	65.0	65.0	65.0	65.0	65.0	65.0	65.0
42		65.0	65.0	65.0	65.0	56.5	65.0	58.4	65.0	57.1	65.0	65.0	65.0
48		63.1	65.0	64.6	65.0	50.6	63.3	52.4	65.0	51.2	64.0	65.0	65.0
54		57.5	65.0	58.9	65.0	46.2	57.7	47.7	59.7	46.7	58.3	65.0	65.0
60		53.2	65.0	54.4	65.0	42.6	53.3	44.1	55.1	43.1	53.9	65.0	65.0
66		53.2	65.0	54.4	65.0	42.6	53.3	44.1	55.1	43.1	53.9	65.0	65.0

Sealed: 7/24/2023



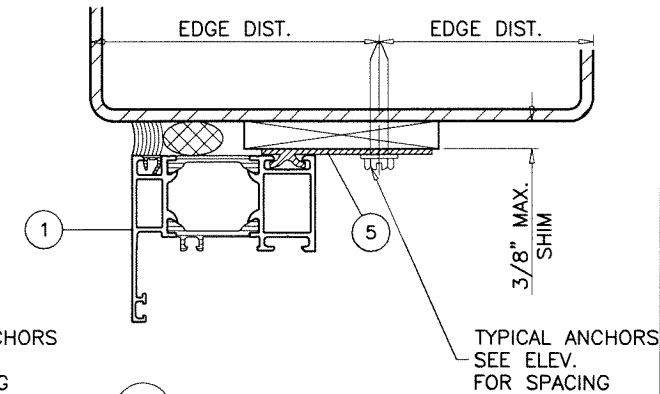
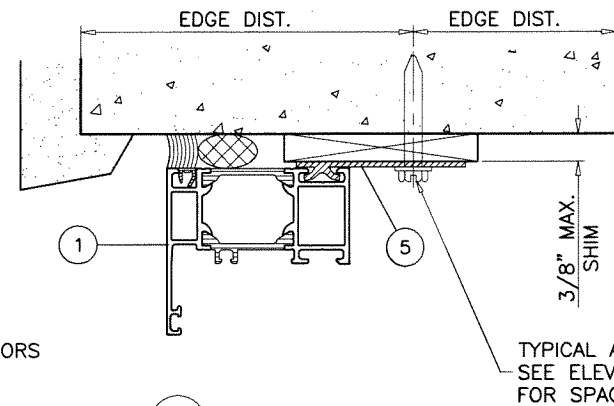
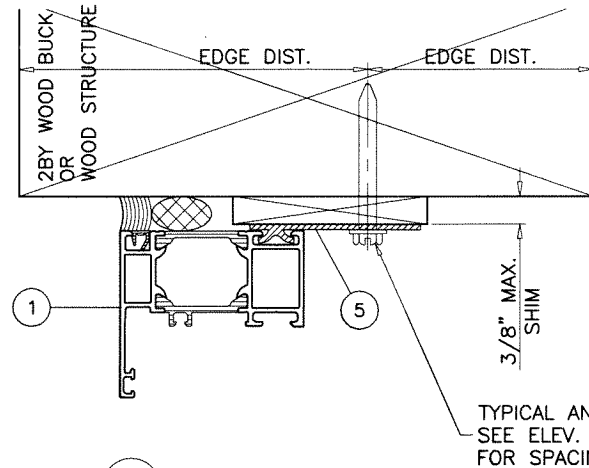
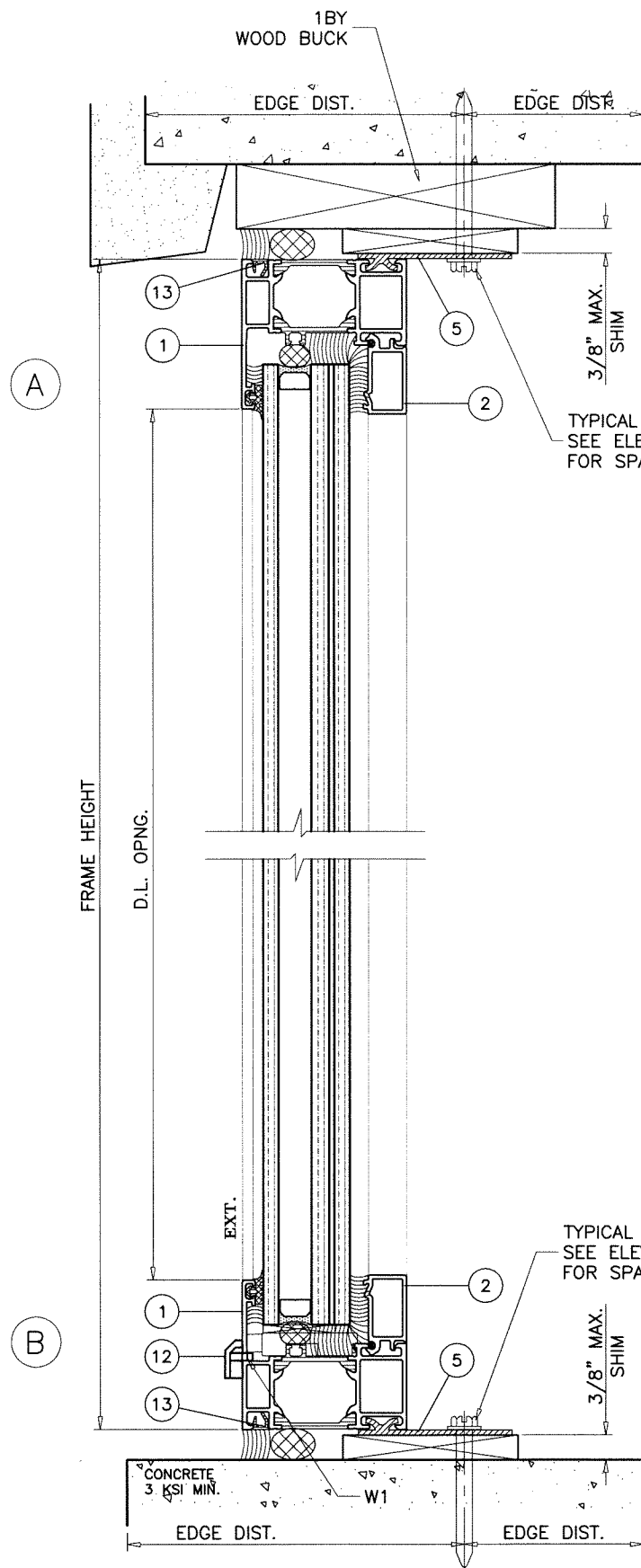
LOWER VALUE FROM ANCHOR CAPACITY CHART
OR MULLION CAPACITY CHARTS WILL APPLY.

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dr. by:	MLS			
chk. by:				
drawing no.	19-49F			
sheet	4 of 12			



1BY OR 2BY WOOD BUCKS AND METAL STRUCTURE NOT BY SCHUCO MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 INTO WOOD STRUCTURES
 1-3/4" MIN. PENETRATION INTO WOOD (HEAD/JAMBS)
 THRU 1BY OR 2BY BUCKS INTO CONC. OR BLOCKS
 1-1/4" MIN. EMBED INTO CONCRETE (HEAD/JAMBS)
 1-1/4" MIN. EMBED INTO BLOCKS (JAMBS)

TYPE 'B'— 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
 DIRECTLY INTO CONCRETE OR FILLED BLOCKS
 1-3/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
 1-3/4" MIN. EMBED INTO FILLED BLOCKS (JAMBS)

TYPE 'C'— 1/4" DIA. TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)
 INTO F.B.C. APPROVED MULLIONS
 OR
 INTO METAL STRUCTURES (HEAD/JAMBS)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 STEEL: 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

CRITICAL EDGE DISTANCE

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

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

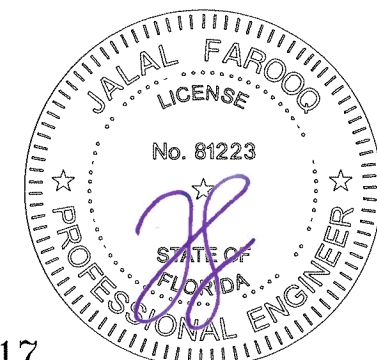
WEEPHOLES:

W1 = 3/8" X 1" WEEP NOTCH AT 3" FROM MULLION/JAMB
 INTERNAL EDGE AND ONE AT CENTER OF PANEL.

Sealed: 7/24/2023

STRAP ANCHOR INSTALLATION

INSTALLATION METHOD
 APPLIES TO SHEET 2 ONLY



FL #29717

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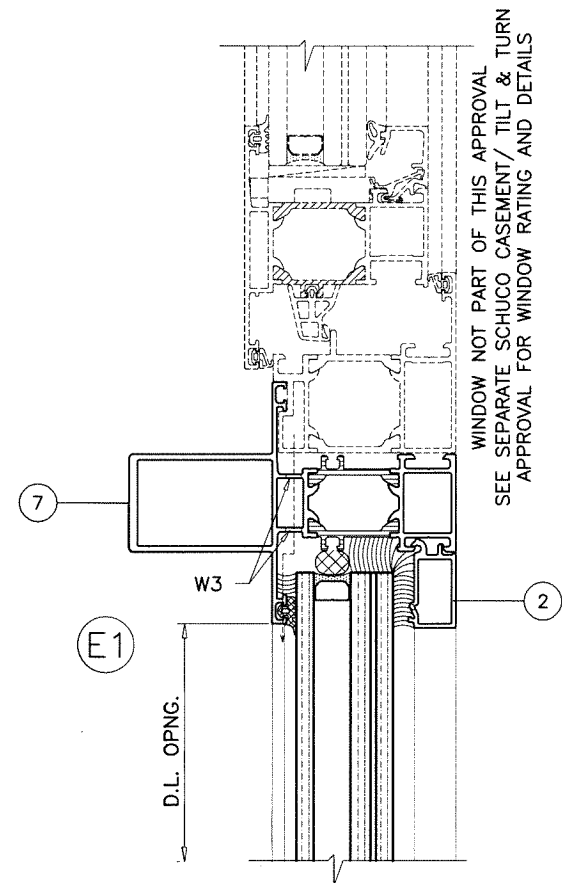
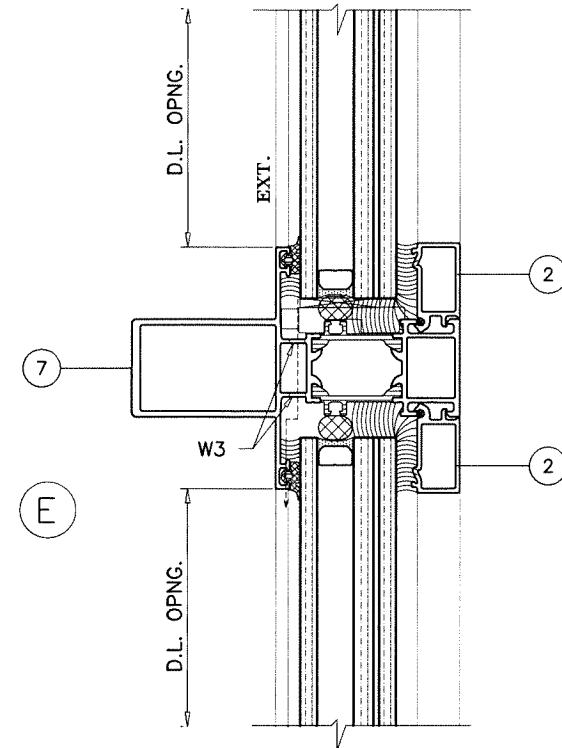
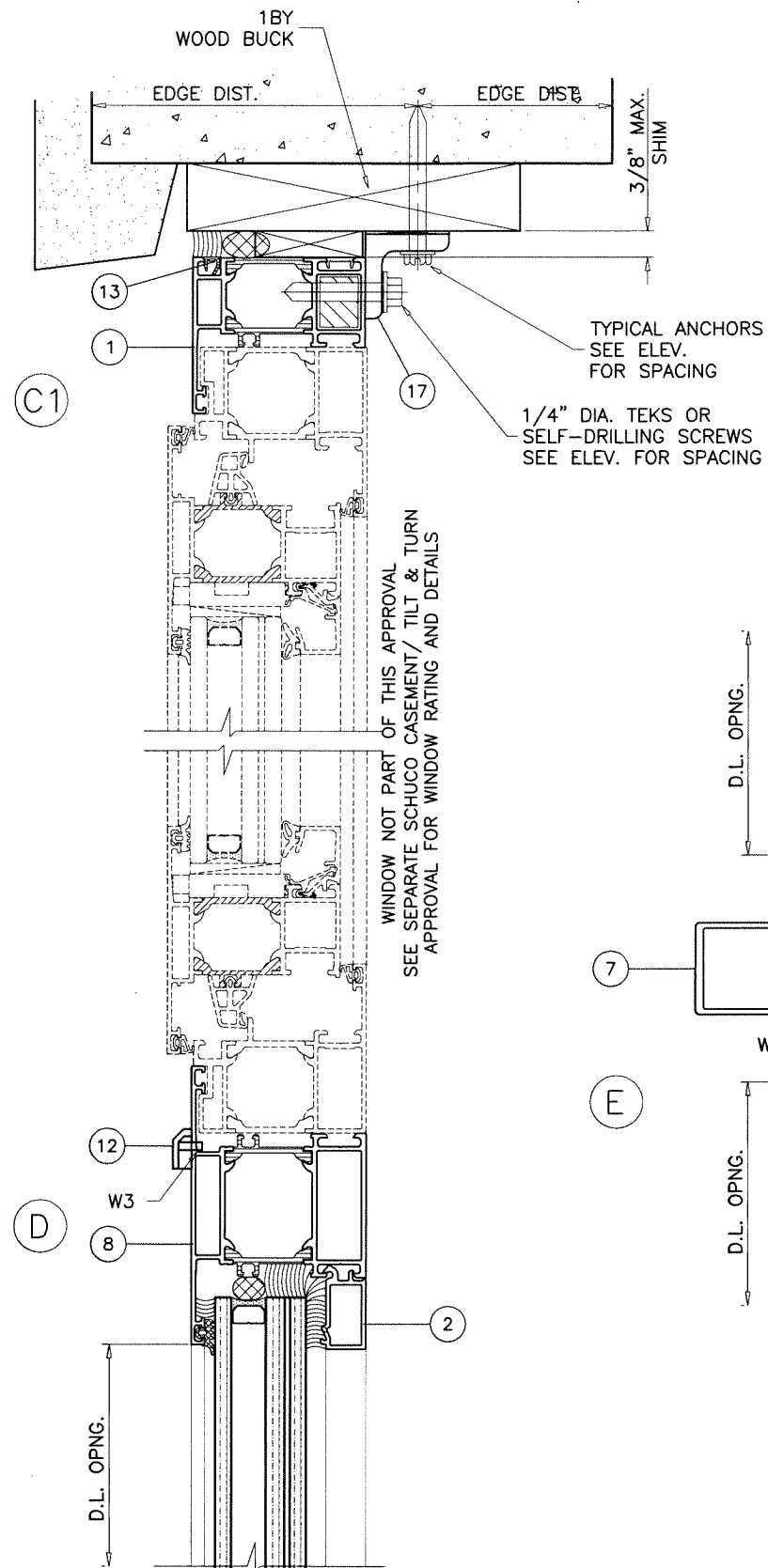
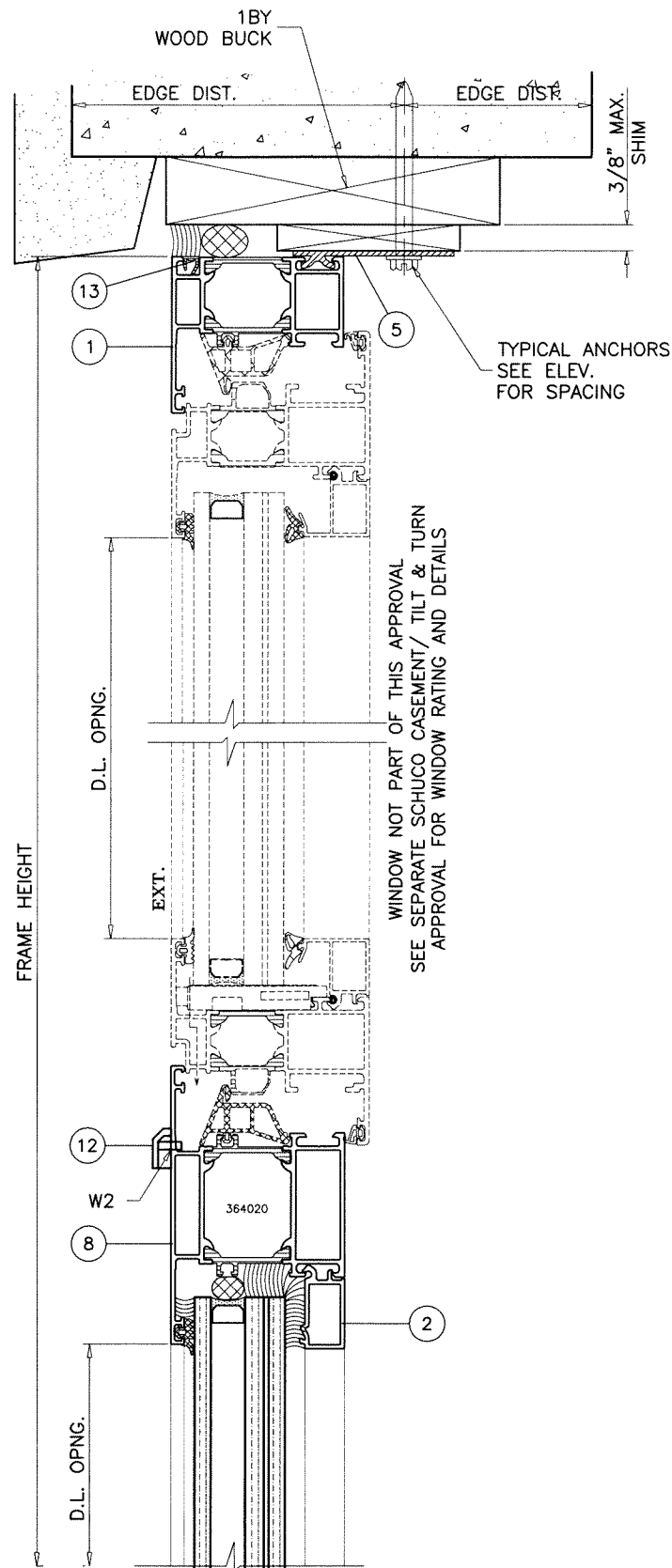
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sheet 5 of 12

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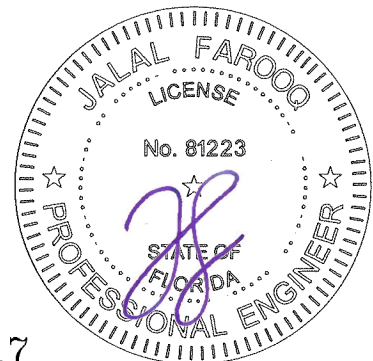


WEEPHOLES:

W2 & W3 = 3/8" X 1" WEEP NOTCH AT 3" FROM MULLION/JAMB INTERNAL EDGE AND ONE AT CENTER OF PANEL.

WINDOW INSERTS CAN BE USED ABOVE AND/OR BELOW INTERMEDIATE HORIZONTAL

Sealed: 7/24/2023

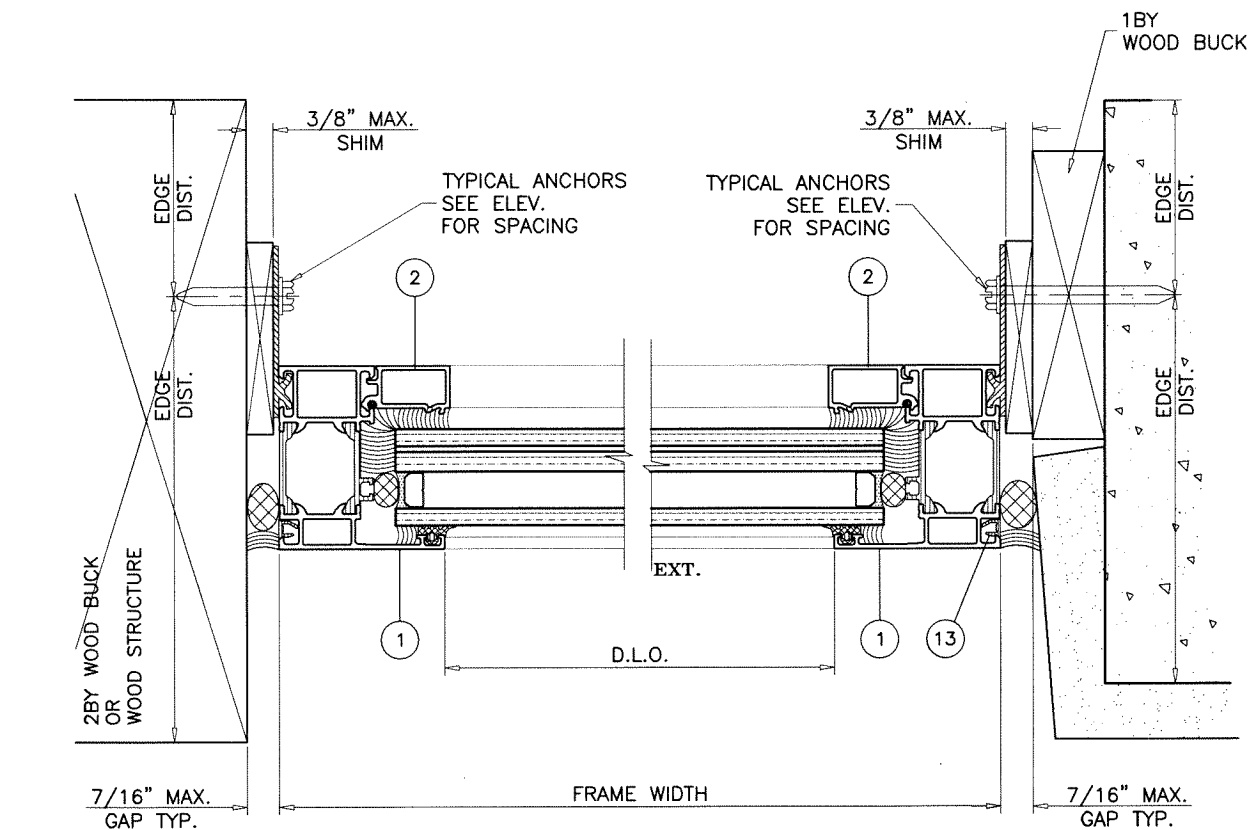


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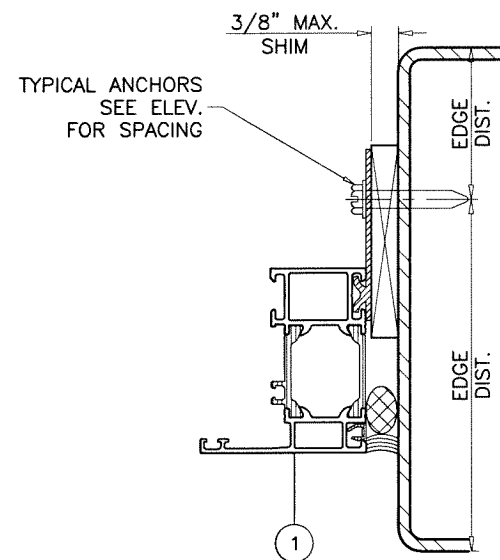
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drawing no.		19-49F			
sheet		6 of 12			

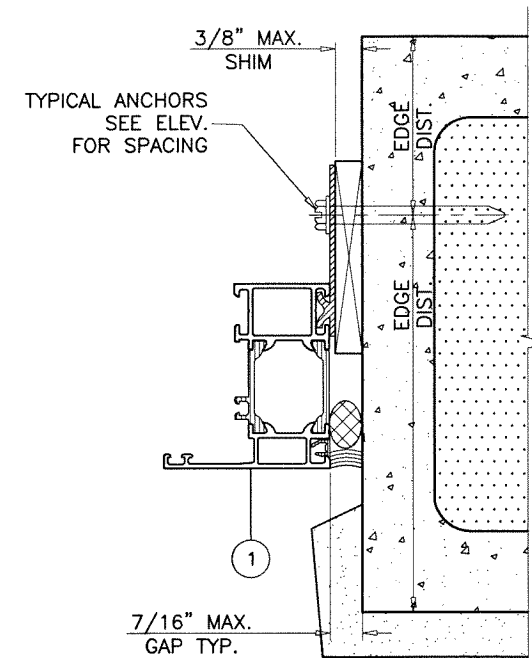


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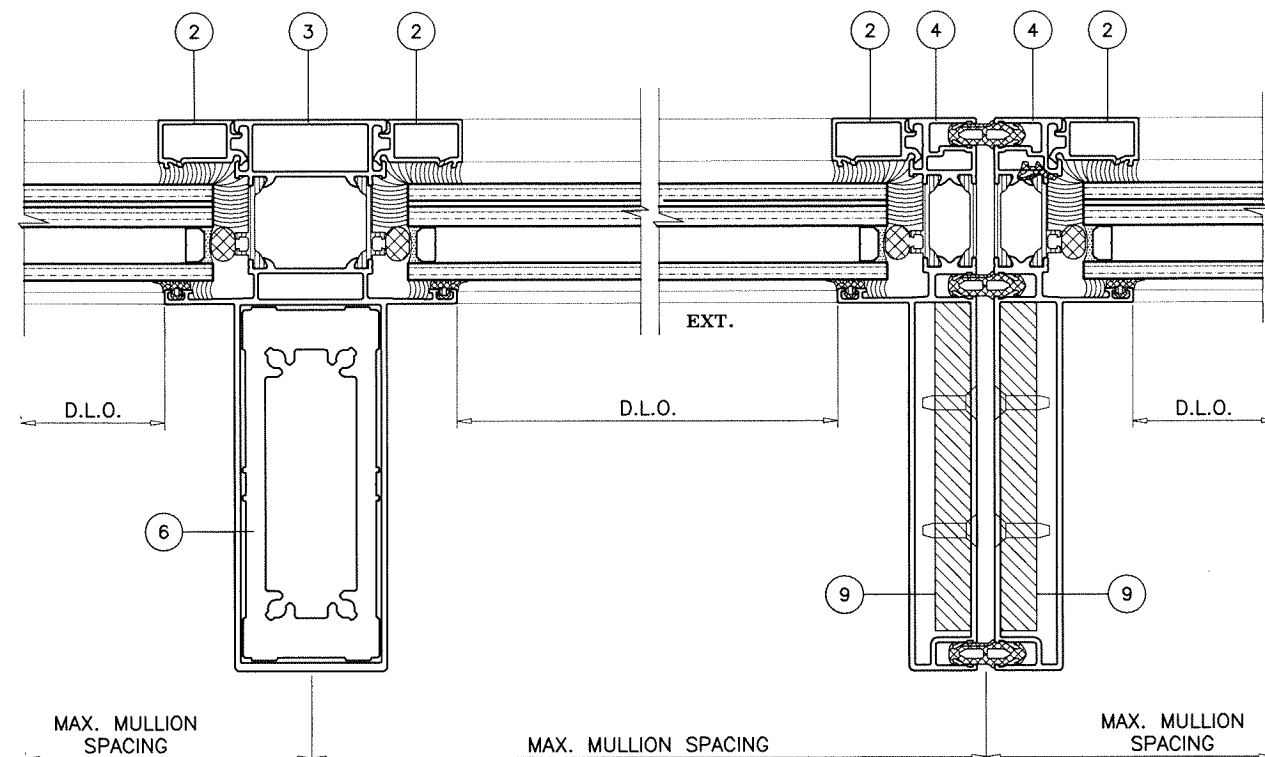
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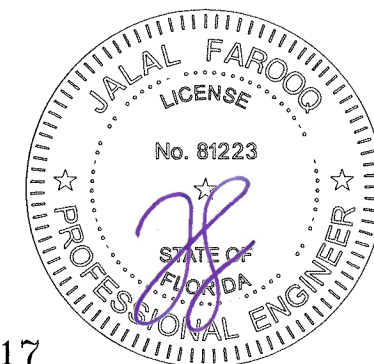
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G

G1

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FL #29717

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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COMP-ANL\19-49F-SUL

AWS 65/70/75/90 STOREFRONT SYSTEM (L.M.I.)

Schuco USA L.L.P.
240 Pane Road
Newington, CT. 06111
Phone: (860) 666-0505 Fax: (860) 616-0188

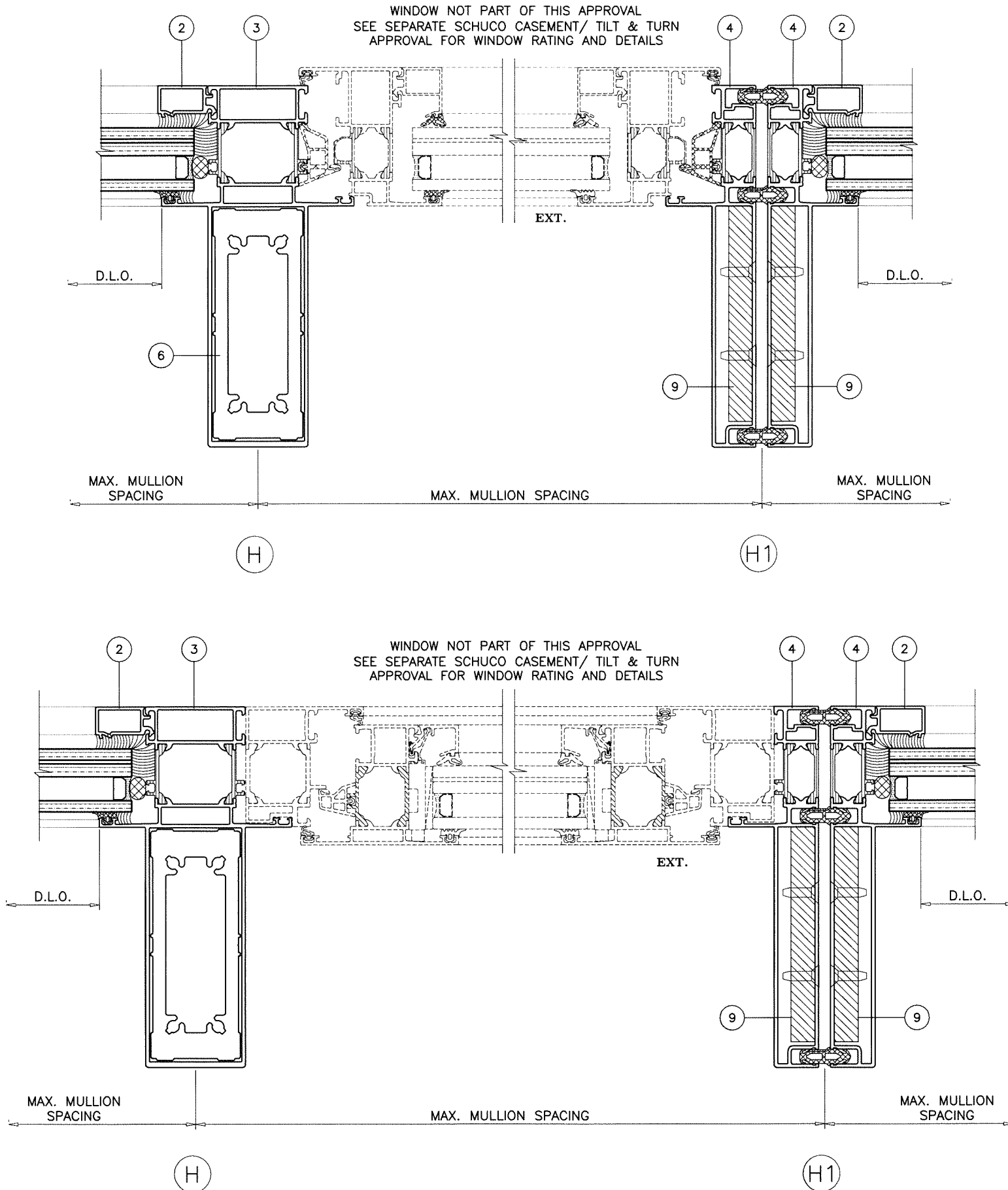
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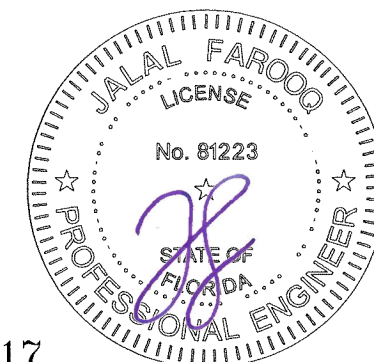
19-49F

sheet 7 of 12

date: 06-17-19



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revisions:

no	date	by	description
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date: 06-17-19

scale: 1/2"=1'-0"

dr. by: MLS

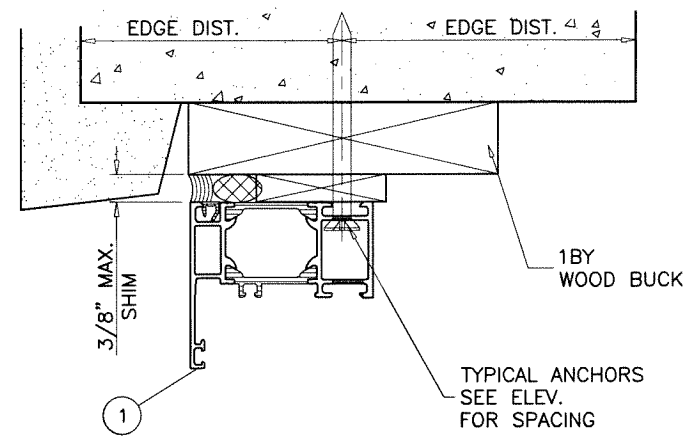
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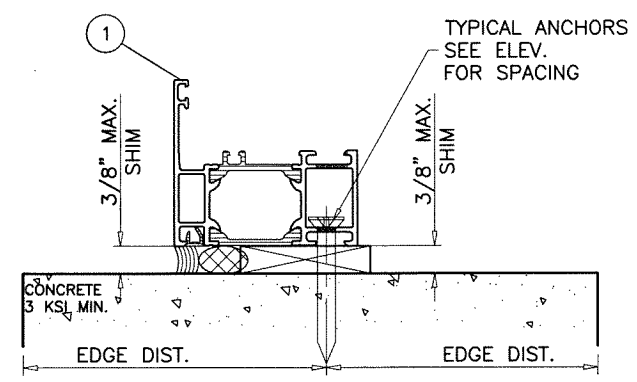
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sheet 8 of 12

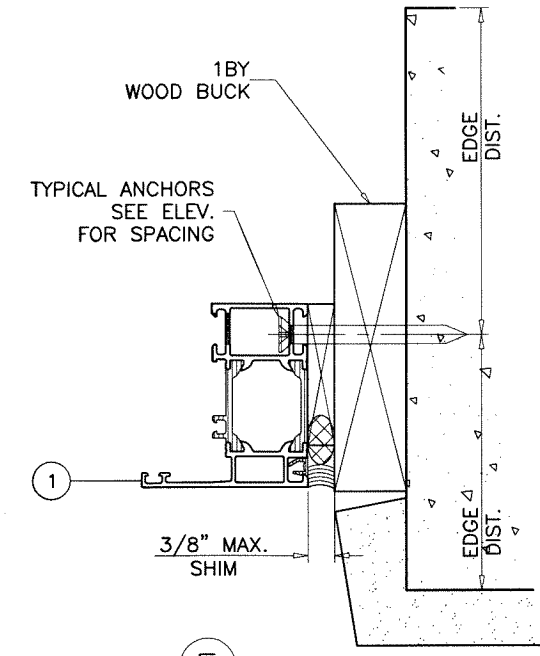
(A)
ALT.



(B)
ALT.



(F)
ALT.



Sealed: 7/24/2023

INSTALLATION METHOD
APPLIES TO SHEET 2 ONLY

THROUGH FRAME ANCHOR INSTALLATION

TYPICAL THROUGH FRAME INSTALLATION DETAILS
APPLY TO ALL OTHER SHOWN SUBSTRATES.

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af c

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revisions:	
no	date
A	10.13.20
by description	
ML UPDATED TO 2020 FBC	

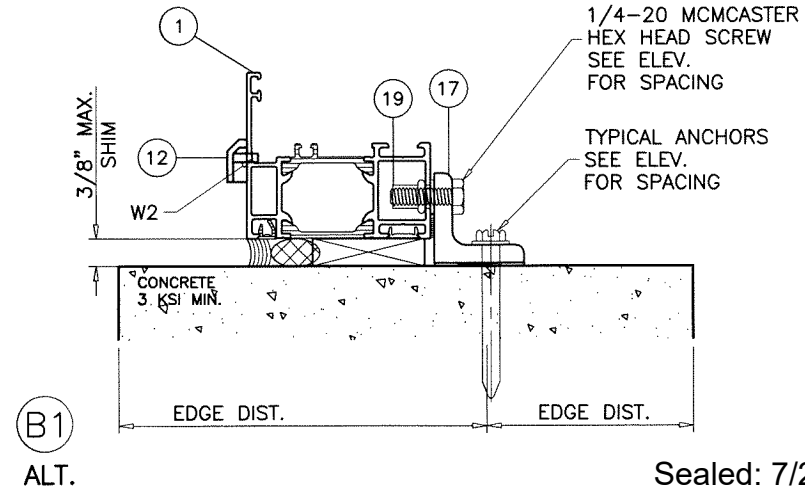
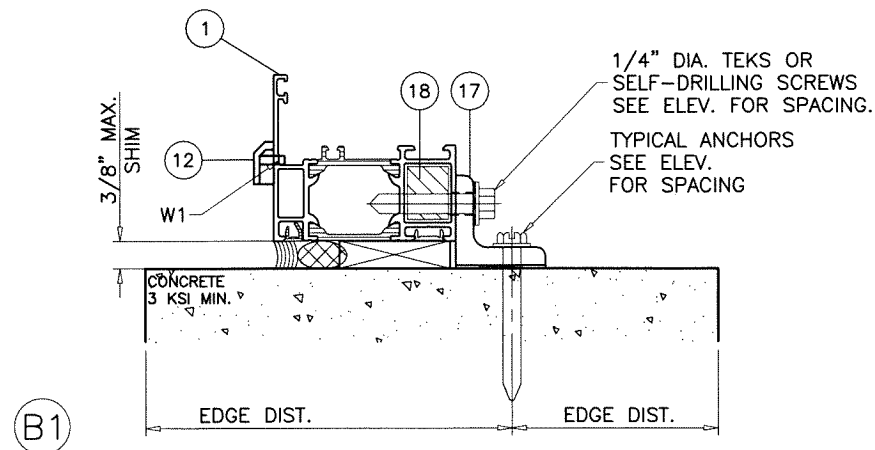
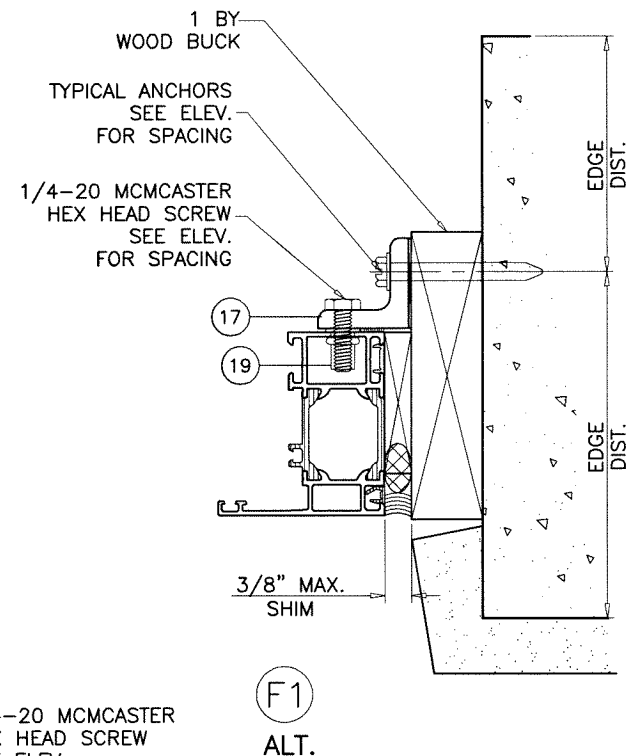
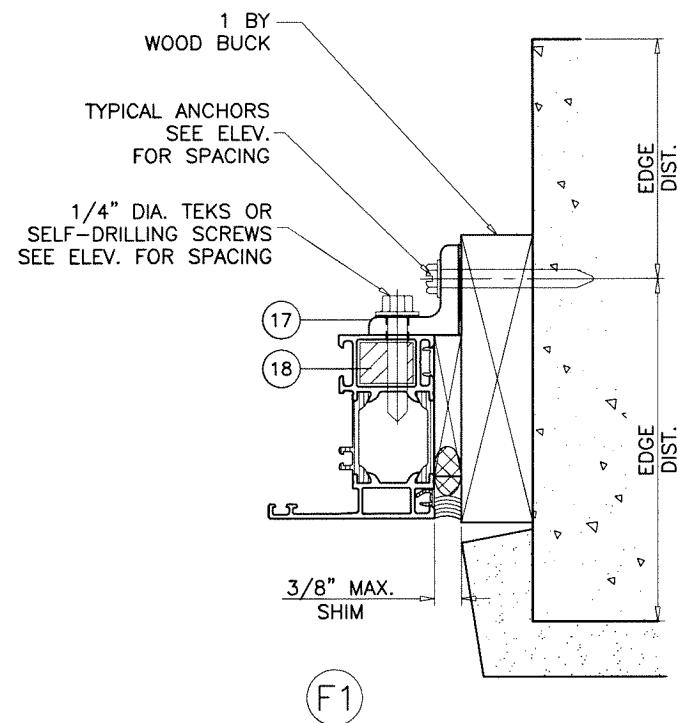
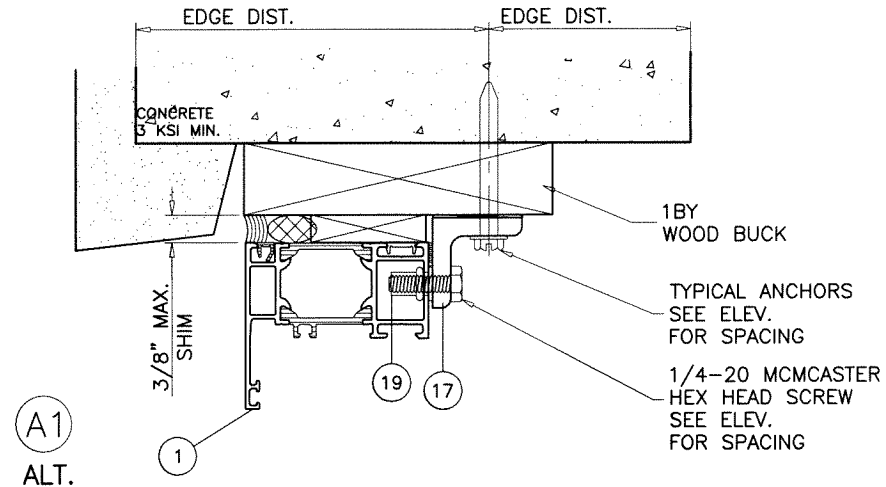
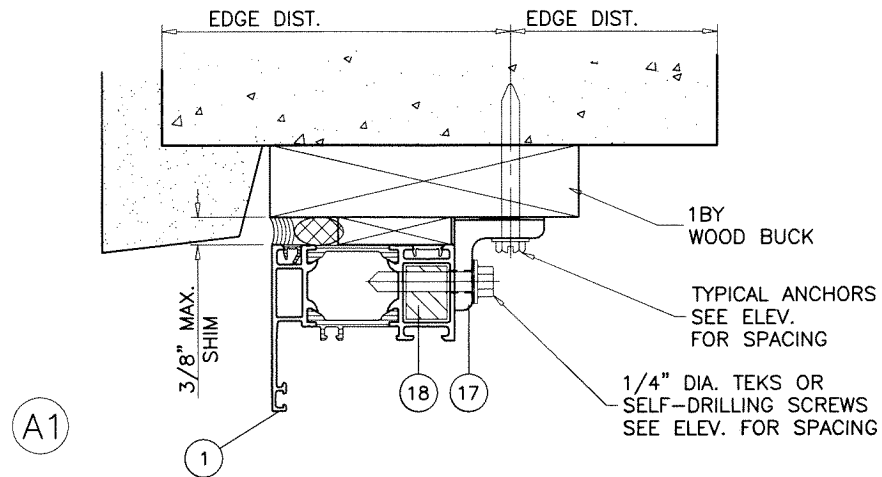
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scale:	1/2"=1'-0"
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chk. by:	

drawing no.

19-49F

sheet 9 of 12

COMP-ANL\19-49F-SUL



WEEPHOLES:

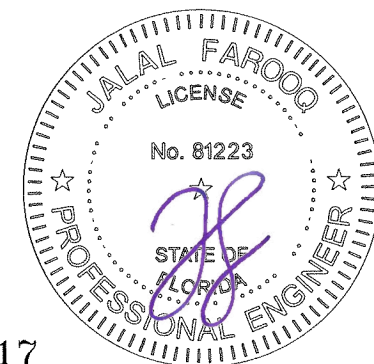
W1 = 3/8" X 1" WEEP NOTCH AT 3" FROM MULLION/JAMB
INTERNAL EDGE AND ONE AT CENTER OF PANEL.

INSTALLATION METHOD
APPLIES TO SHEET 3 ONLY

THROUGH ALUM ANGLE ANCHOR INSTALLATION

TYPICAL THROUGH ALUM ANGLE INSTALLATION DETAILS
APPLY TO ALL OTHER SHOWN SUBSTRATES.

Sealed: 7/24/2023

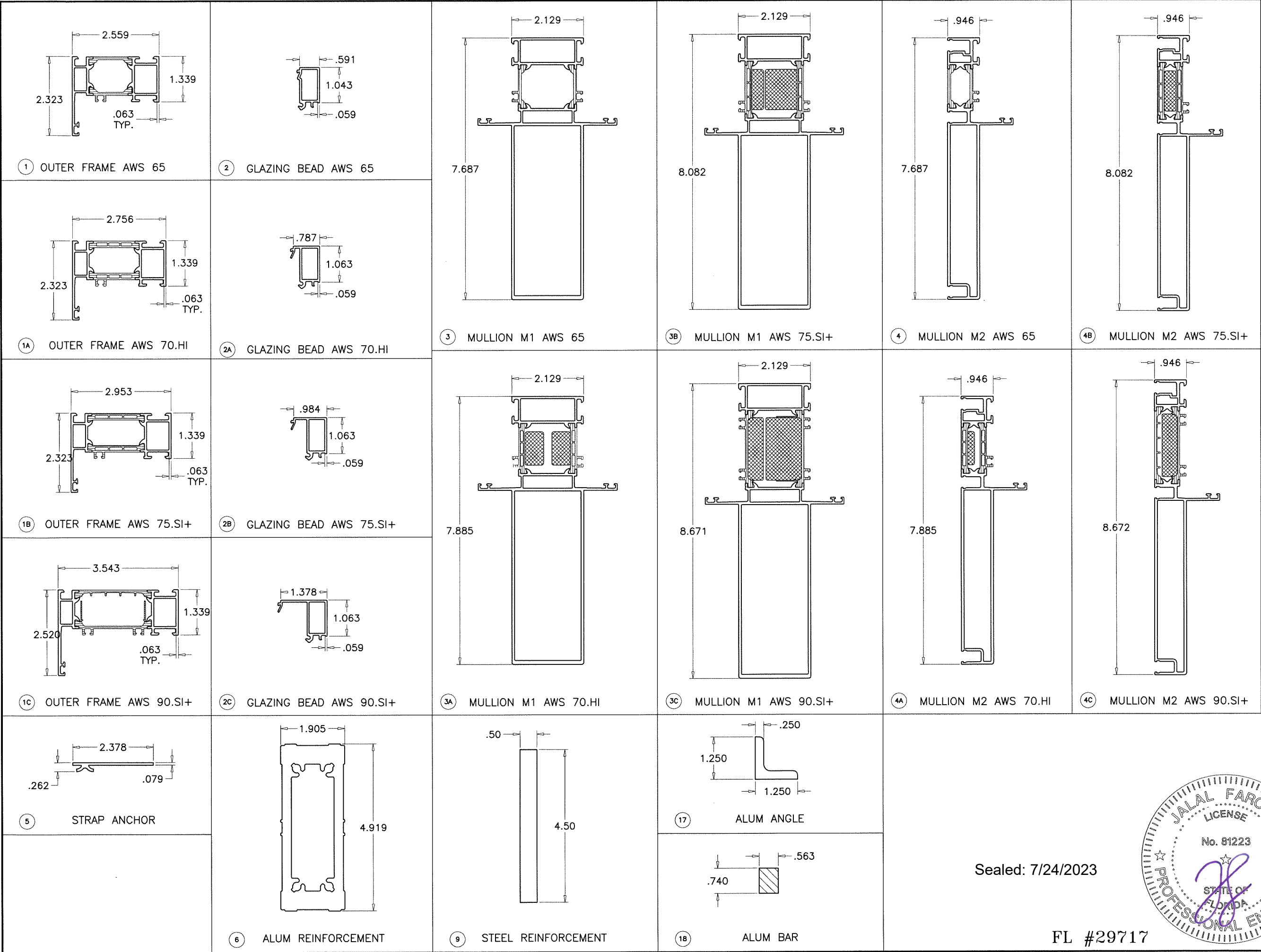


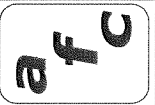
FL #29717

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COMP-ANL\19-49F-SUL

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revisions:		no	date	by	description
A	10.13.20	ML	UPDATED TO 2020 FBC		
date:	06-17-19	scale:	1/2"=1'-0"	dr. by:	MLS
		chk. by:			
drawing no.		19-49F			
sheet 10 of 12					





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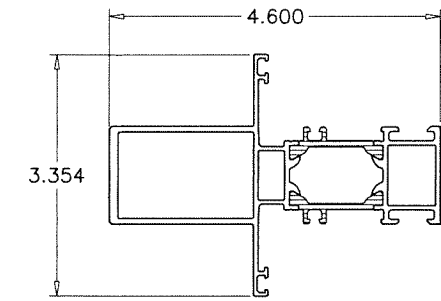
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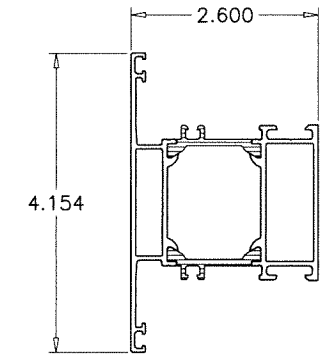
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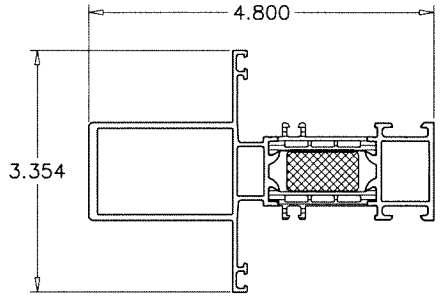
drawing no.
19-49F
sheet 11 of 12



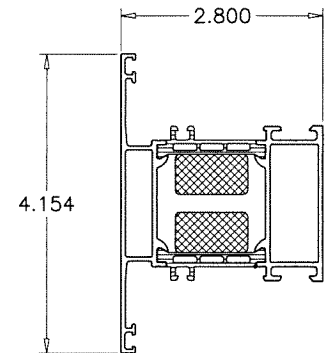
7 INTERMEDIATE H1 AWS 65



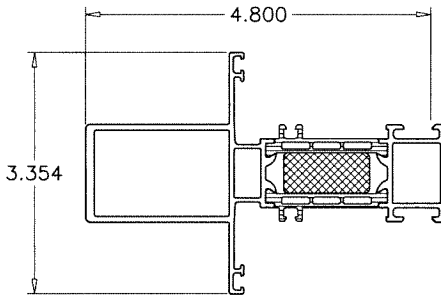
8 INTERMEDIATE H2 AWS 65



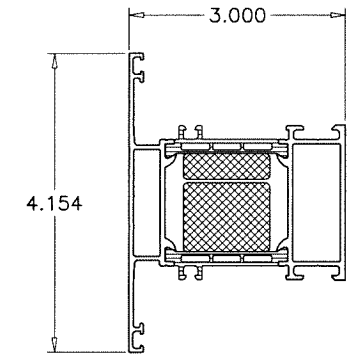
7A INTERMEDIATE H1 AWS 70.HI



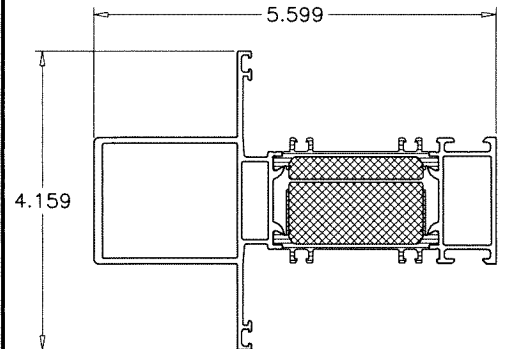
8A INTERMEDIATE H2 AWS 70.HI



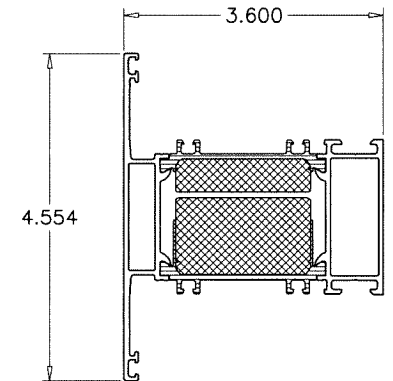
7B INTERMEDIATE H1 AWS 75.SI+



8B INTERMEDIATE H2 AWS 75.SI+



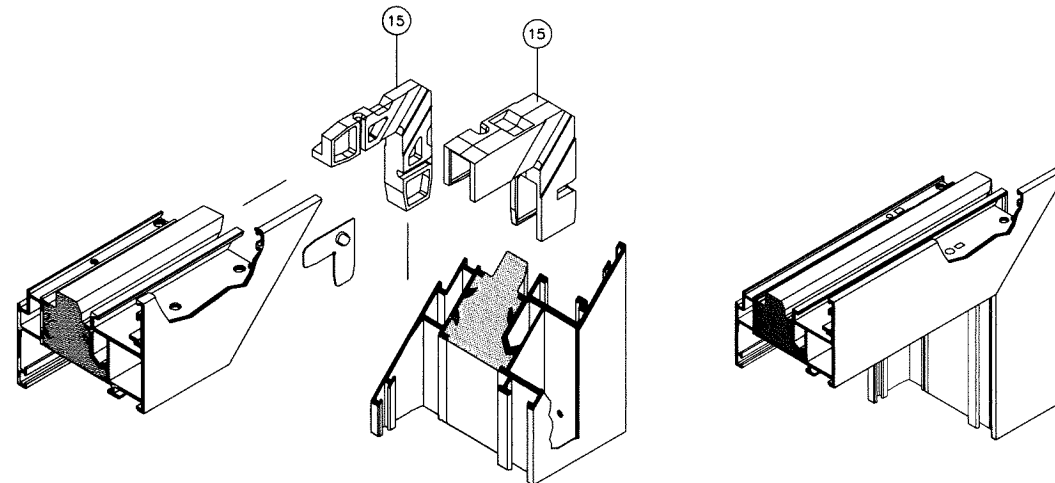
7C INTERMEDIATE H1 AWS 90.SI+



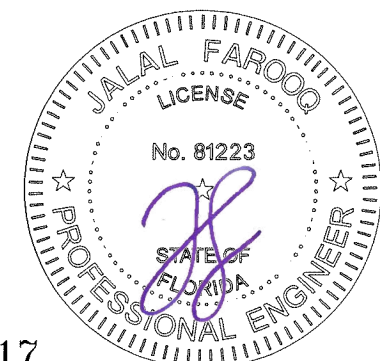
8C INTERMEDIATE H2 AWS 90.SI+

INSULBARS
MATERIAL = POLYAMIDE
TENSILE STRENGTH = 13031 PSI
RATE OF BURN = .752 IN./MIN.
SELF IGNITION TEMP. = 793° F
FLASH IGNITION TEMP. = 781°C
SMOKE DENSITY = 1.63

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL
1	363900	4	FRAME AWS 65	6063-T6
1A	358150	AS REQD.	FRAME AWS 70.HI	6063-T6
1B	382130	AS REQD.	FRAME AWS 75.SI+	6063-T6
1C	465070	AS REQD.	FRAME AWS 90.SI+	6063-T6
2	489760	4	GLAZING BEAD EHL 22 (AWS 65)	6063-T6
2A	467700	AS REQD.	FIXED GLAZING BEAD AWS 70.HI	6063-T6
2B	467780	AS REQD.	FIXED GLAZING BEAD AWS 75.SI+	6063-T6
2C	467800	AS REQD.	FIXED GLAZING BEAD AWS 90.SI+	6063-T6
3	9629332	AS REQD.	MULLION M1 AWS 65	6063-T6
3A	--	AS REQD.	MULLION M1 AWS 70.HI	6063-T6
3B	--	AS REQD.	MULLION M1 AWS 75.SI+	6063-T6
3C	--	AS REQD.	MULLION M1 AWS 90.SI+	6063-T6
4	9629334	AS REQD.	MULLION M2 AWS 65	6063-T6
4A	--	AS REQD.	MULLION M2 AWS 70.HI	6063-T6
4B	--	AS REQD.	MULLION M2 AWS 75.SI+	6063-T6
4C	--	AS REQD.	MULLION M2 AWS 90.SI+	6063-T6
5	207628	AS REQD.	STRAP ANCHOR	50961-Fe/Zn 8 C
6	9631982	AS REQD.	ALUMINUM REINFORCEMENT	6063-T6
7	364810	AS REQD.	INTERMEDIATE H1 AWS 65	6063-T6
7A	358760	AS REQD.	INTERMEDIATE H1 AWS 70.HI	6063-T6
7B	368660	AS REQD.	INTERMEDIATE H1 AWS 75.SI+	6063-T6
7C	441510	AS REQD.	INTERMEDIATE H1 AWS 90.SI+	6063-T6
8	364020	AS REQD.	INTERMEDIATE H2 AWS 65	6063-T6
8A	358270	AS REQD.	INTERMEDIATE H2 AWS 70.HI	6063-T6
8B	382300	AS REQD.	INTERMEDIATE H2 AWS 75.SI+	6063-T6
8C	441190	AS REQD.	INTERMEDIATE H2 AWS 90.SI+	6063-T6
9	--	1	1/2" X 4 1/2" STEEL PLATE	STEEL
11	224063	AS REQD.	CONT. O.-IN GASKET AWS 70.HI	
12	208694	3	DRAIN COVER CAP BLK.	
13	244516	AS REQD.	PVC-U FILLER PROF SW	
14	288167	2/ LITE	GLAZING SUPPORT	POLYAMIDE, DUROMETER 80±5 SHORE A
15	236198/236218	4/EA.	CORNER KEY	6063-T6
16	--	2/ LITE	SETTING BLOCK	EPDM, DUROMETER 80±5 SHORE A
17	--	AS REQD.	1-1/4" X 1-1/4" X 1/4 ANGLE	ALUMINUM
18	--	AS REQD.	9/16" X 3/4" BAR	ALUMINUM
19	--	AS REQD.	BOLLHOFF S25-80 RIVNUT	



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FL #29717

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drawing no.	19-49F			
sheet	12 of 12			