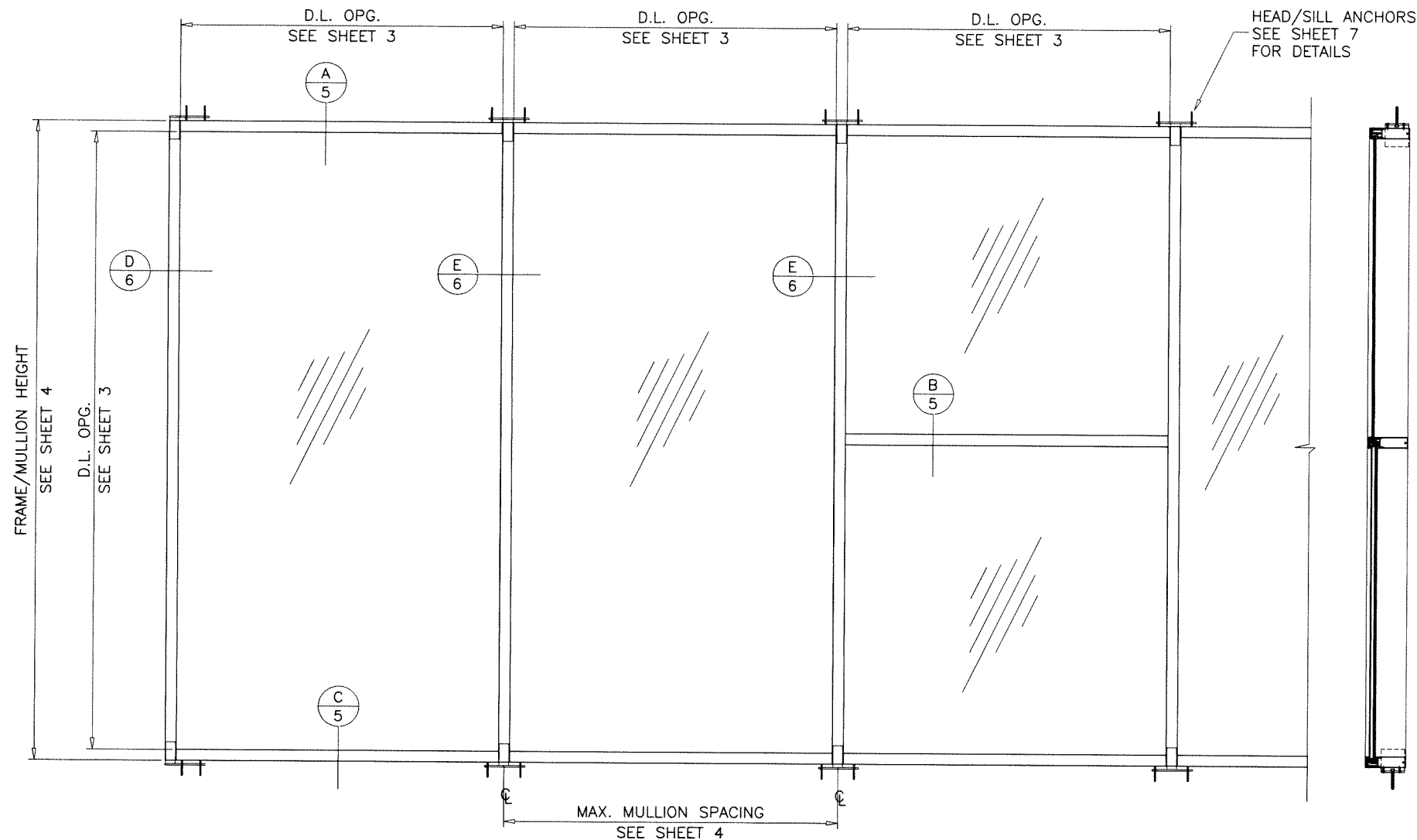


*** USE OF THIS PRODUCT REQUIRES WRITTEN AUTHORIZATION BY PAGEN SP TO THE BUILDING DEPARTMENT WHEN APPLYING FOR A PERMIT ***



TYPICAL ELEVATION
SINGLE SPANS

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

FWS-60
ALUMINUM HURRICANE 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.

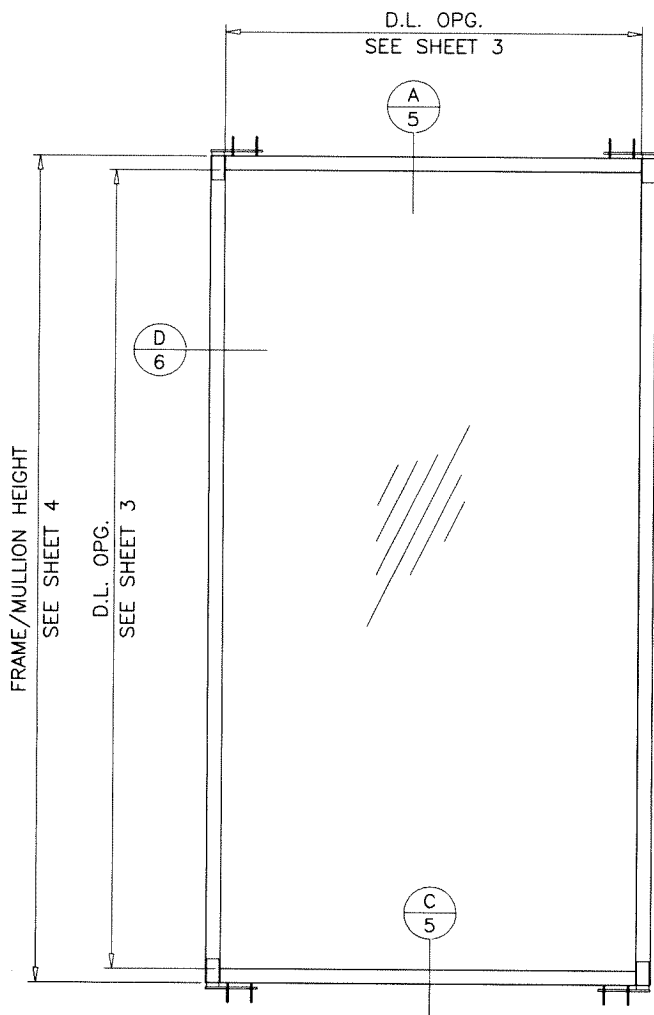
THIS PRODUCT APPROVAL IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, I.E. LIFE SAFETY OF THIS PRODUCT, ADEQUACY OF STRUCTURE RECEIVING THIS PRODUCT AND SEALING AROUND OPENING FOR WATER INFILTRATION RESISTANCE ETC. CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, 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 3 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 4 FOR SINGLE SPAN AND TWO SPANS. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.
- STEP 5** FOR UNANCHORED JAMBS, USING SHEET 6, DETERMINE THE MIN. & MAX. GAP DIMENSIONS.



TYPICAL ELEVATION
SINGLE 'O' PANEL

LAMINATED GLASS
INSUL. LAM. GLASS
LARGE MISSILE IMPACT

Sealed: 8/11/2023

FL #42036

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.

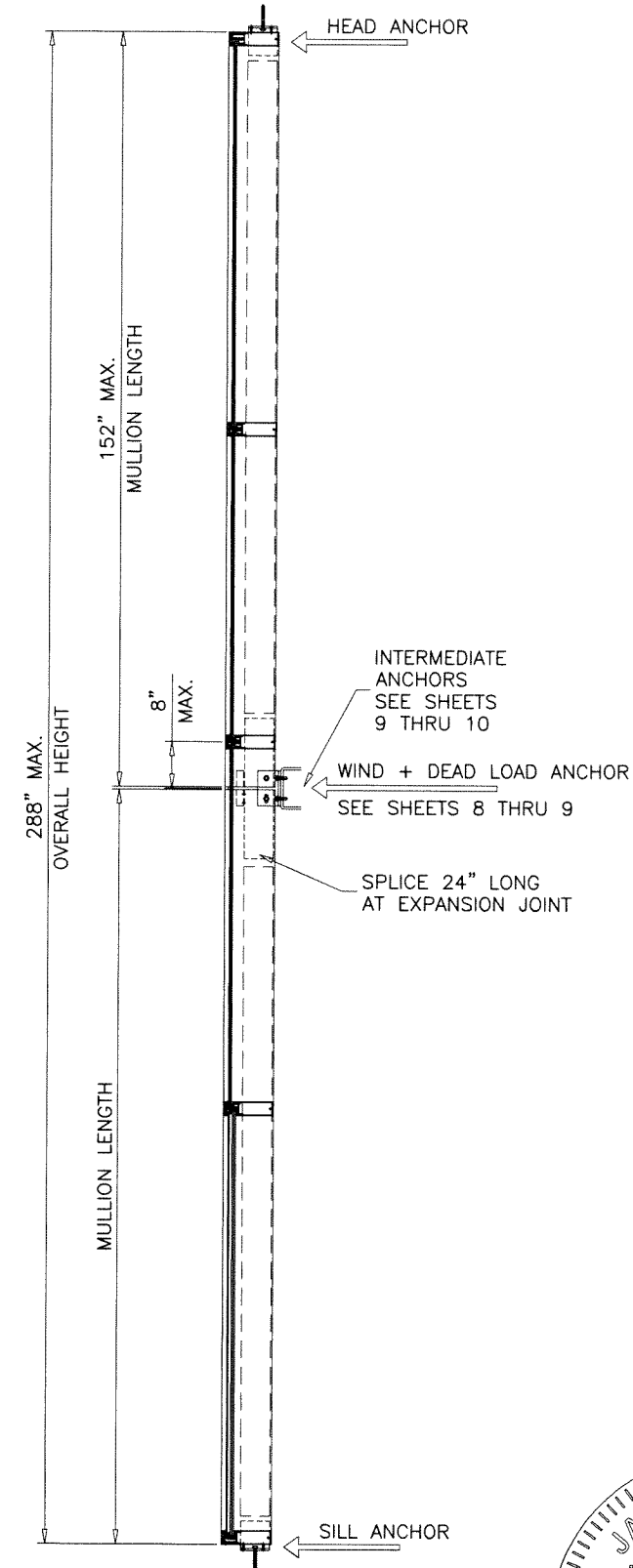
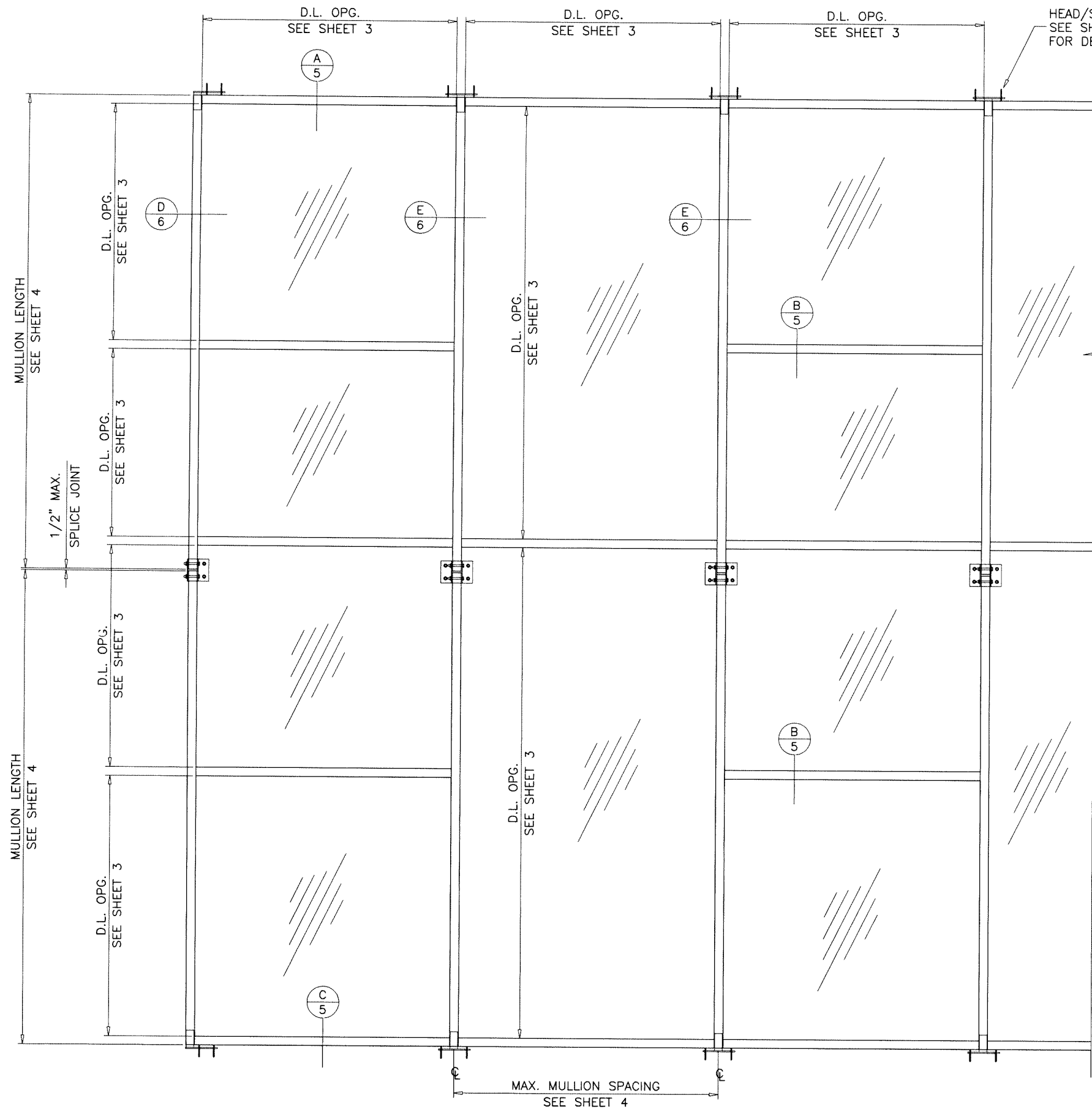
D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #8538
STORE/23-17F-PSZ

FWS-60 ALUMINUM HURRICANE CURTAIN WALL SYS. (L.M.I.)
PAGEN Sp. z o.o.
Gnojnik 699
32-864 Gnojnik, Poland
Phone: +48 14 63 93 130
www.pagen.pl/en

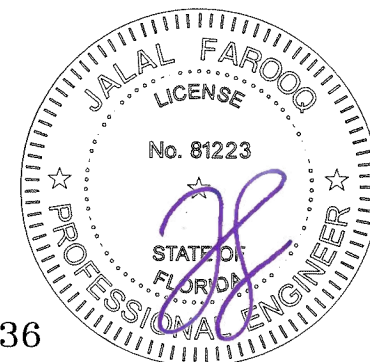
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date:	04-12-23			
scale:	3/8"=1'-0"			
dr. by:	TARIQ			
chk. by:				
drawing no.	23-17F			
sheet	1 of 11			



TYPICAL ELEVATION
TWIN SPANS

Sealed: 8/11/2023

FL #42036



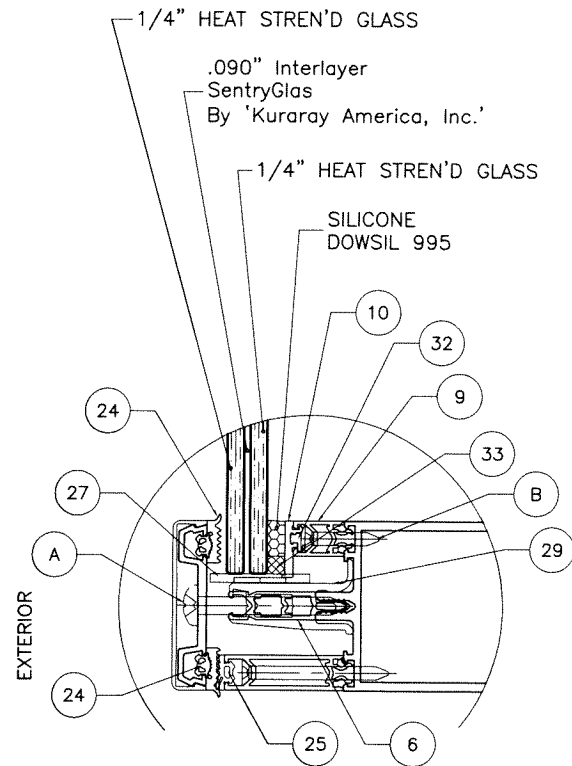
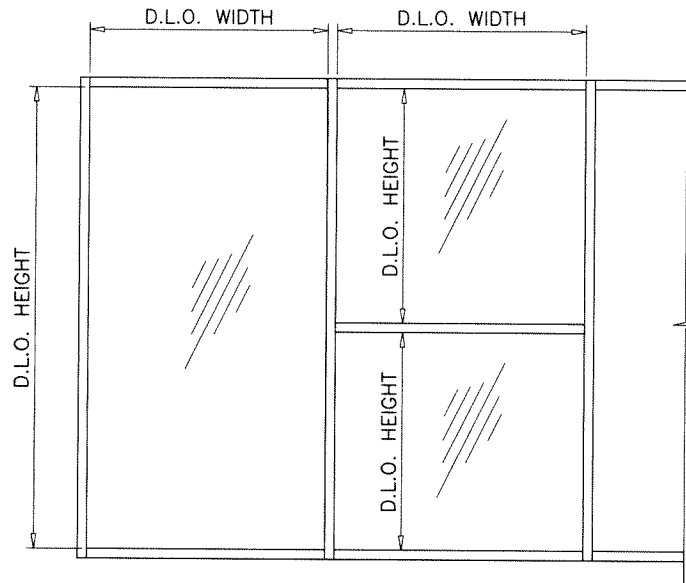
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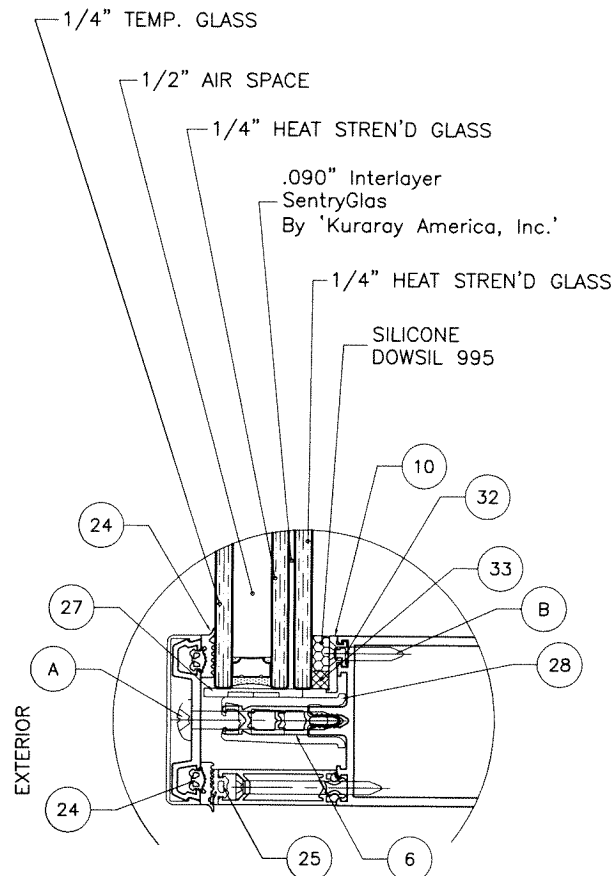
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drawing no.		23-17F		sheet		2 of 11			

GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		GLASS TYPES 'A' & 'Ai'	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)
55-1/4"	115-1/4"	50.0	50.0
61-1/4"		50.0	50.0
67-1/4"		50.0	50.0
73-1/4"		46.2	46.2
79-1/4"		42.9	42.9
55-1/4"	121-1/4"	50.0	50.0
61-1/4"		50.0	50.0
67-1/4"		50.0	50.0
73-1/4"		46.2	46.2
79-1/4"		42.9	42.9
55-1/4"	127-1/4"	50.0	50.0
61-1/4"		50.0	50.0
67-1/4"		50.0	50.0
73-1/4"		46.2	46.2
79-1/4"		42.9	42.9
55-1/4"	133-1/4"	50.0	50.0
61-1/4"		50.0	50.0
67-1/4"		50.0	50.0
55-1/4"	139-1/4"	50.0	50.0
61-1/4"		50.0	50.0
67-1/4"		50.0	50.0
55-1/4"	147-1/4"	50.0	50.0
61-1/4"		50.0	50.0
63-1/4"		50.0	50.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



GLASS TYPE 'A'
9/16" OVERALL NOMINAL THK.



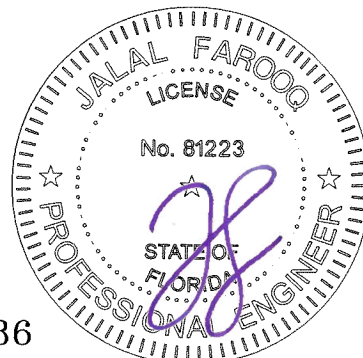
GLASS TYPE 'Ai'
1-5/16" OVERALL NOMINAL THK.

GLAZING OPTIONS

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

Sealed: 8/11/2023

FL #42036



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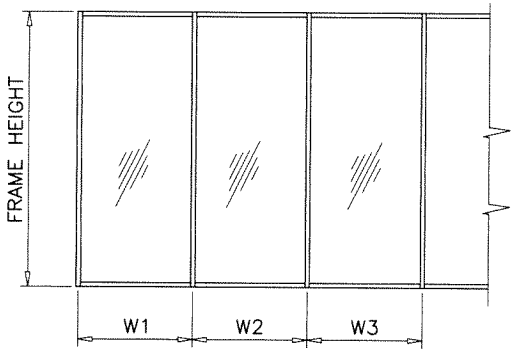
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revisions:		no date by description	
date:	04-12-23	scale:	3/8" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	23-17F	sheet	3 of 11

STORE\23-17F-PSZ

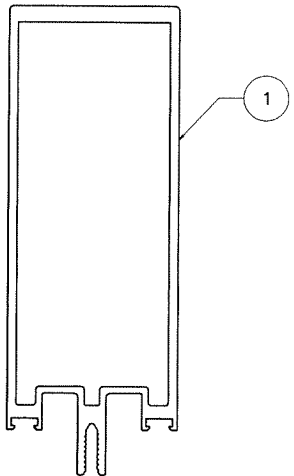
MULLION DESIGN LOAD CAPACITY - PSF					
SINGLE SPAN AND TWIN SPANS WITHOUT INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'		JAMB 'J1' MULLION 'M2'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
48"	114"	50.0	50.0	50.0	50.0
54"		50.0	50.0	50.0	50.0
60"		50.0	50.0	50.0	50.0
66"		50.0	50.0	50.0	50.0
72"		50.0	50.0	50.0	50.0
78"		50.0	50.0	50.0	50.0
84"		50.0	50.0	50.0	50.0
48"	120"	50.0	50.0	50.0	50.0
54"		50.0	50.0	50.0	50.0
60"		50.0	50.0	50.0	50.0
66"		50.0	50.0	50.0	50.0
72"		50.0	50.0	50.0	50.0
78"		50.0	50.0	50.0	50.0
84"		50.0	50.0	50.0	50.0
48"	126"	50.0	50.0	50.0	50.0
54"		50.0	50.0	50.0	50.0
60"		50.0	50.0	50.0	50.0
66"		50.0	50.0	50.0	50.0
72"		50.0	50.0	50.0	50.0
78"		50.0	50.0	50.0	50.0
84"		50.0	50.0	50.0	50.0
48"	132"	50.0	50.0	50.0	50.0
54"		50.0	50.0	50.0	50.0
60"		50.0	50.0	50.0	50.0
66"		50.0	50.0	50.0	50.0
72"		48.9	48.9	50.0	50.0
78"		46.0	46.0	50.0	50.0
84"		46.0	46.0	50.0	50.0
48"	136"	50.0	50.0	50.0	50.0
54"		50.0	50.0	50.0	50.0
60"		50.0	50.0	50.0	50.0
66"		49.0	49.0	50.0	50.0
72"		45.7	45.7	50.0	50.0
78"		45.7	45.7	50.0	50.0
84"		45.7	45.7	50.0	50.0
48"	144"	50.0	50.0	50.0	50.0
54"		50.0	50.0	50.0	50.0
60"		46.7	46.7	50.0	50.0
66"		43.1	43.1	50.0	50.0
72"		40.1	40.1	50.0	50.0
78"		40.1	40.1	50.0	50.0
84"		40.1	40.1	50.0	50.0
48"	152"	48.1	48.1	50.0	50.0
54"		43.3	43.3	50.0	50.0
60"		39.4	39.4	50.0	50.0
66"		36.3	36.3	50.0	50.0
72"		35.4	35.4	50.0	50.0
78"		35.4	35.4	50.0	50.0
84"		35.4	35.4	50.0	50.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



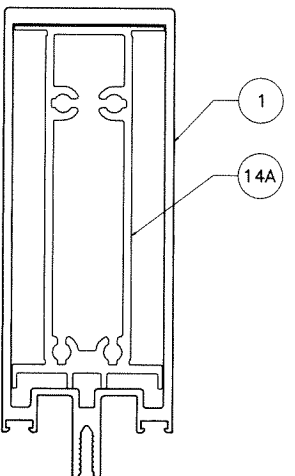
WIDTH (W) = W1
AT JAMB

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



JAMB 'J1'
MULLION 'M1'

Ix IN^4	Sx IN^3
12.594	3.636

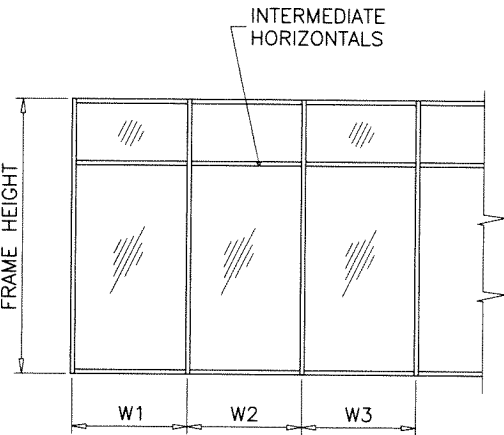


MULLION 'M2'

Ix IN^4	Sx IN^3
18.283	5.777

MULLION DESIGN LOAD CAPACITY - PSF					
SINGLE SPAN AND TWIN SPANS WITH INTERMEDIATE HORIZONTALS					
NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'		JAMB 'J1' MULLION 'M2'	
WIDTH (W)	FRAME HEIGHT MULL LENGTH	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
48"	114"	50.0	50.0	50.0	50.0
54"		50.0	50.0	50.0	50.0
60"		50.0	50.0	50.0	50.0
66"		50.0	50.0	50.0	50.0
72"		50.0	50.0	50.0	50.0
78"		50.0	50.0	50.0	50.0
84"		50.0	50.0	50.0	50.0
48"	120"	50.0	50.0	50.0	50.0
54"		50.0	50.0	50.0	50.0
60"		50.0	50.0	50.0	50.0
66"		50.0	50.0	50.0	50.0
72"		50.0	50.0	50.0	50.0
78"		50.0	50.0	50.0	50.0
84"		46.4	46.4	50.0	50.0
48"	126"	50.0	50.0	50.0	50.0
54"		50.0	50.0	50.0	50.0
60"		50.0	50.0	50.0	50.0
66"		50.0	50.0	50.0	50.0
72"		49.0	49.0	50.0	50.0
78"		45.2	45.2	50.0	50.0
84"		45.2	45.2	50.0	50.0
48"	132"	50.0	50.0	50.0	50.0
54"		50.0	50.0	50.0	50.0
60"		50.0	50.0	50.0	50.0
66"		48.5	48.5	50.0	50.0
72"		44.5	44.5	50.0	50.0
78"		41.0	41.0	50.0	50.0
84"		41.0	41.0	50.0	50.0
48"	136"	50.0	50.0	50.0	50.0
54"		50.0	50.0	50.0	50.0
60"		50.0	50.0	50.0	50.0
66"		45.6	45.6	50.0	50.0
72"		41.8	41.8	50.0	50.0
78"		41.8	41.8	50.0	50.0
84"		41.8	41.8	50.0	50.0
48"	144"	50.0	50.0	50.0	50.0
54"		48.5	48.5	50.0	50.0
60"		43.6	43.6	50.0	50.0
66"		39.7	39.7	50.0	50.0
72"		36.4	36.4	50.0	50.0
78"		36.4	36.4	50.0	50.0
84"		36.4	36.4	50.0	50.0
48"	152"	46.4	46.4	50.0	50.0
54"		41.2	41.2	50.0	50.0
60"		37.1	37.1	50.0	50.0
66"		33.7	33.7	48.9	48.9
72"		30.9	30.9	44.9	44.9
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84"		30.9	30.9	44.9	44.9

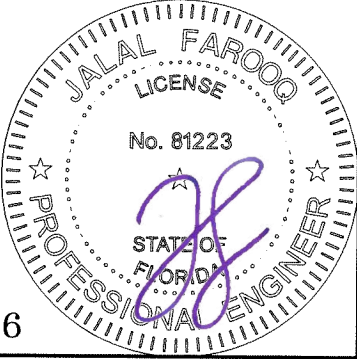
INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



WIDTH (W) = W1
AT JAMB

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

MULLION



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FL #42036

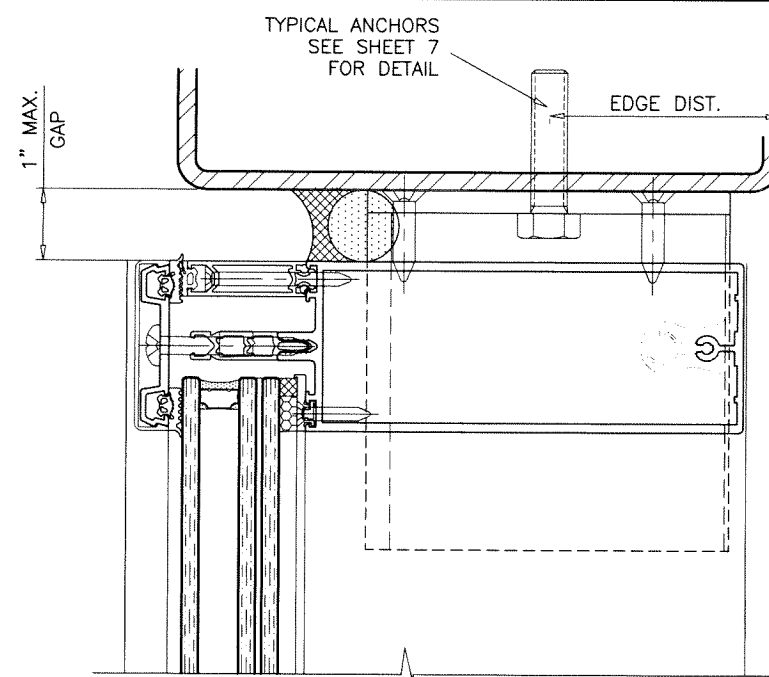
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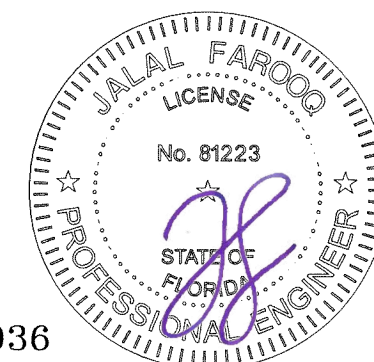
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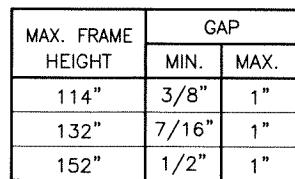
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sheet	4 of 11			



FL #42036



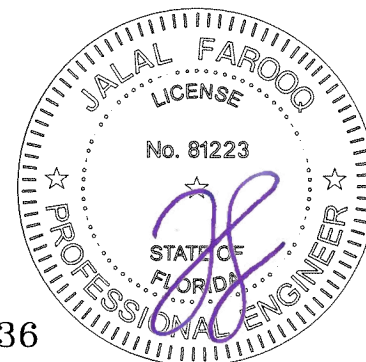
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dr. by: TARIQ			
chk. by:			



ALTERNATE SEALANTS AT JAMB GAPS CAN BE DESIGNED BY
ENGINEER OF RECORD BASED ON MANUFACTURER GUIDE LINES.

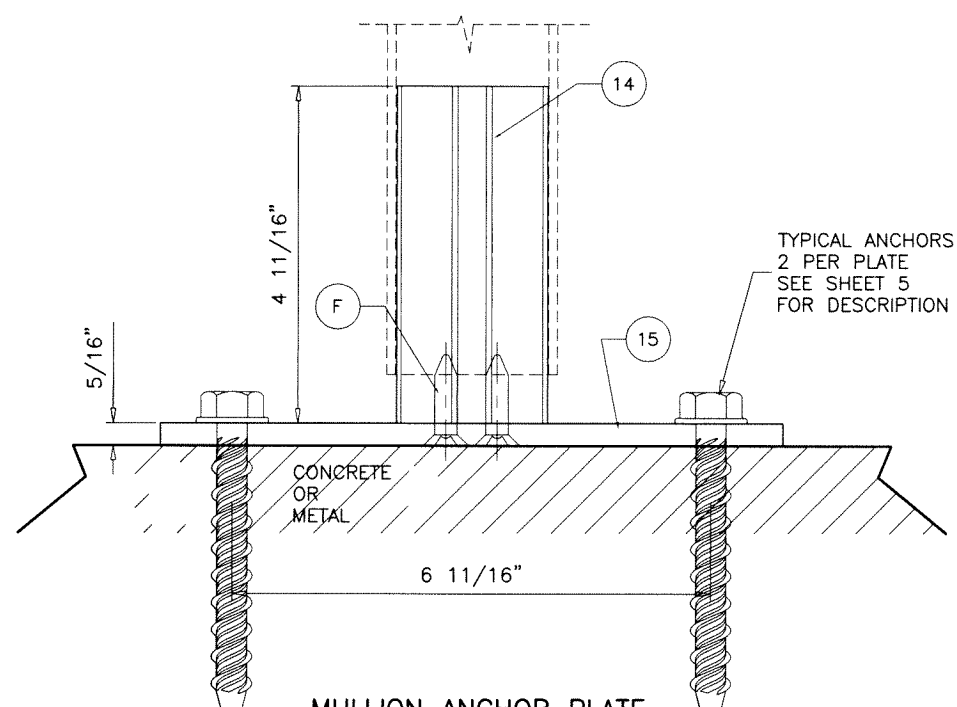
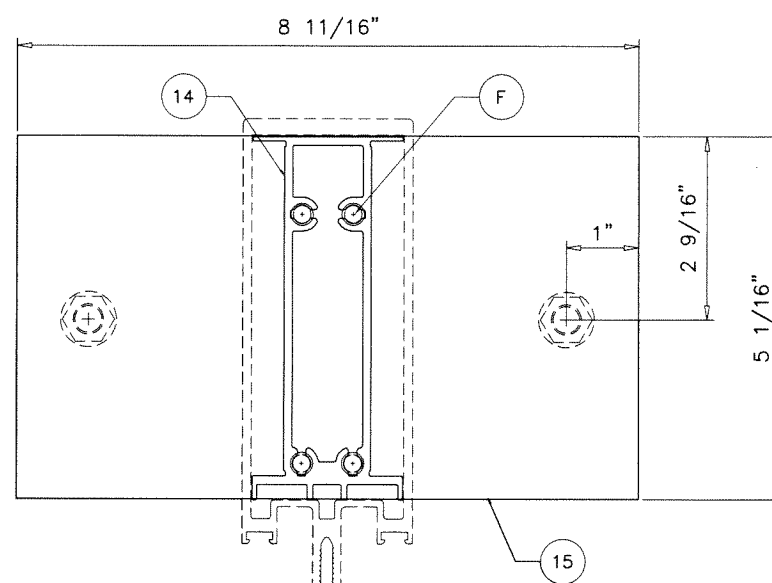
GAPS LESS THAN 1/4" MAY BE DESIGNED BY ENGINEER OF RECORD BY
THE USE OF BOND BREAKER TAPE OR 15% OF GAP ALLOWED MOVEMENT.

FL #42036



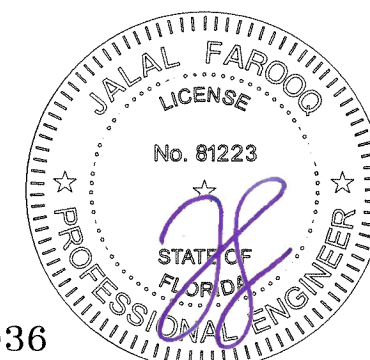
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WWW.AFCENG.COM
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STOREY 23

FCENG.COM STORE\23-17E-PS7

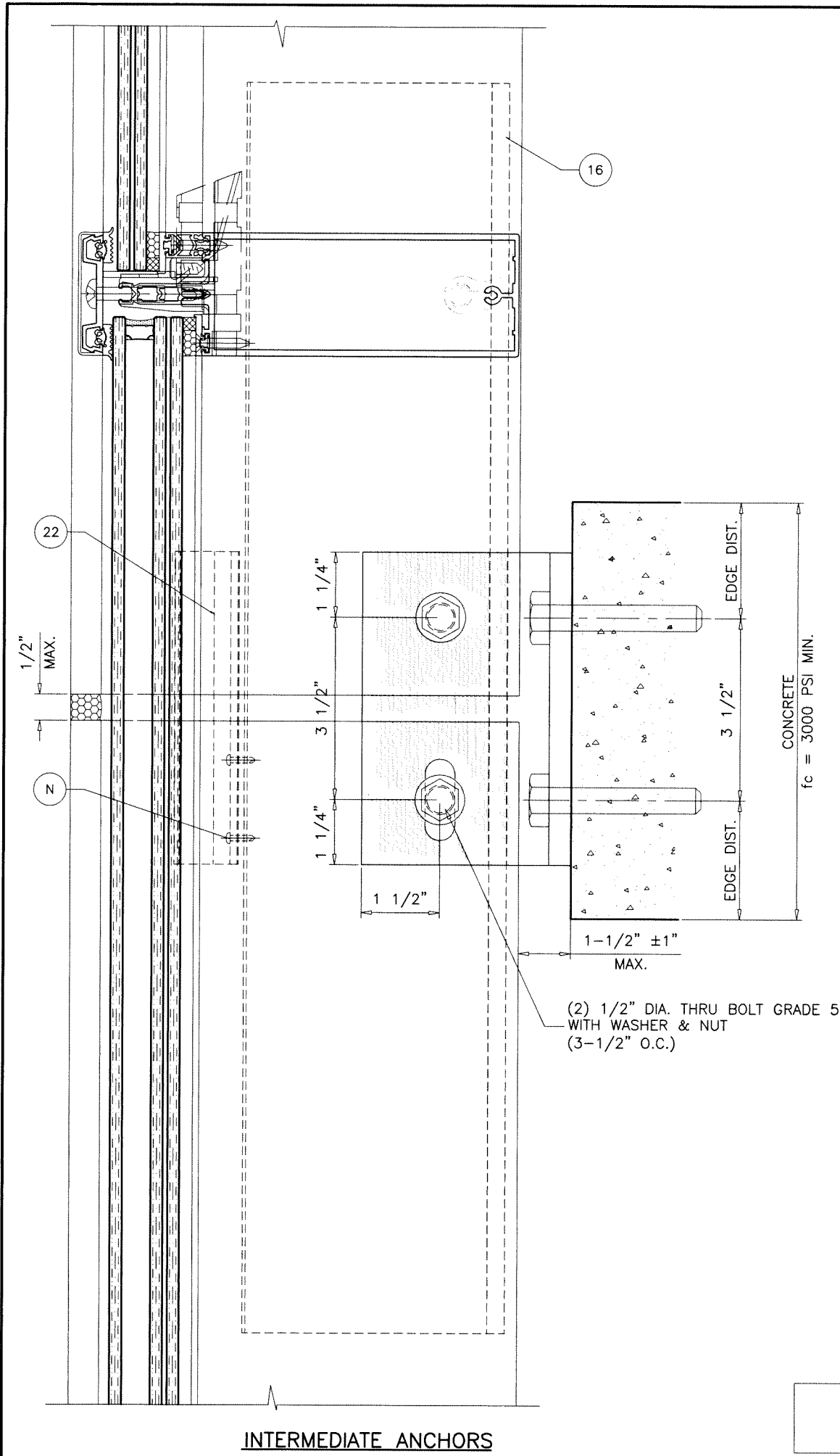


MULLION ANCHOR PLATE
AT HEAD/SILL

FL #42036

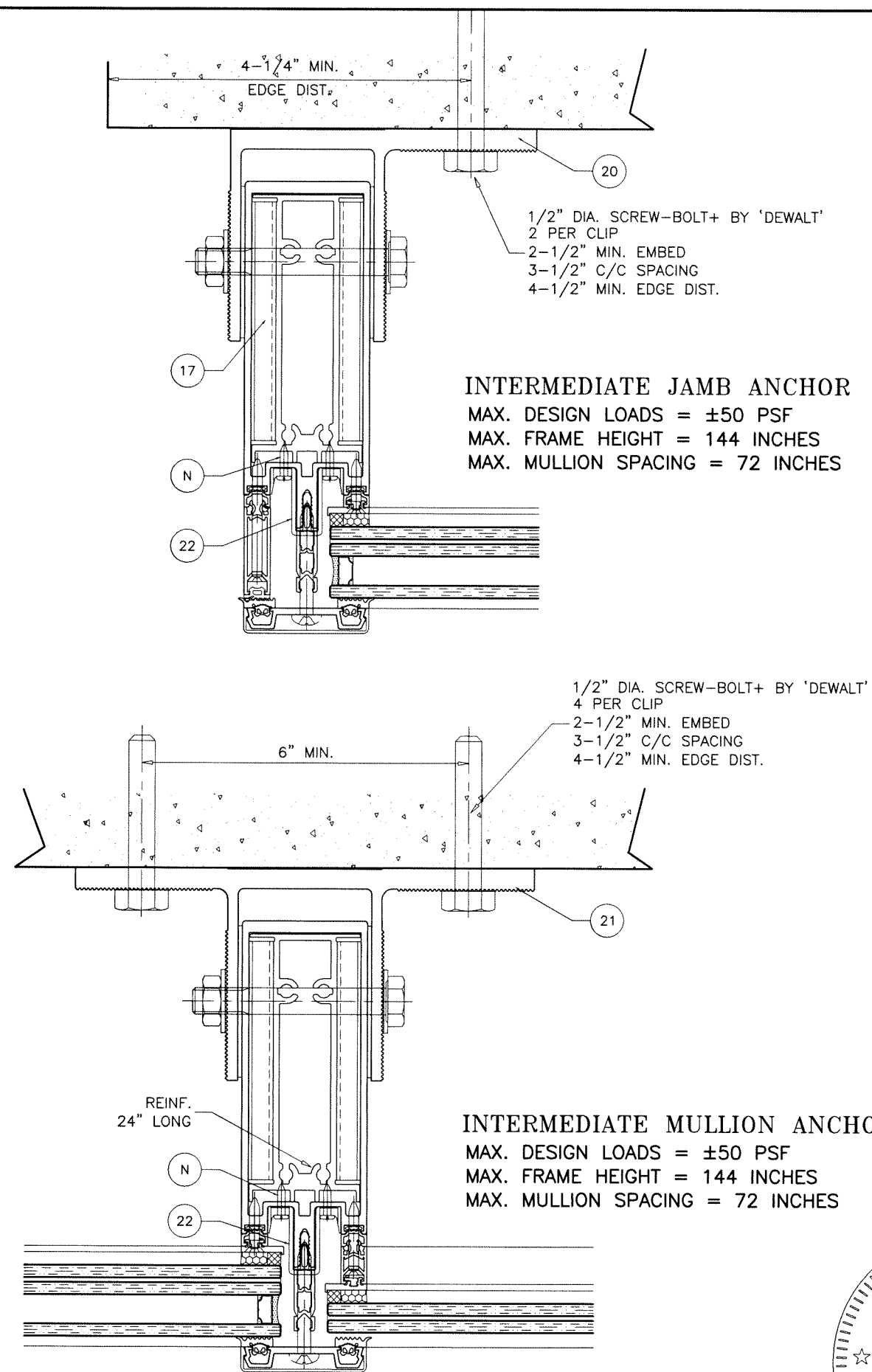


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chk. by:			
drawing no. 23-17F			
sheet 7 of 11			



INTERMEDIATE ANCHORS

WIND/DEAD LOAD ANCHOR
3000 PSI MIN. CONCRETE

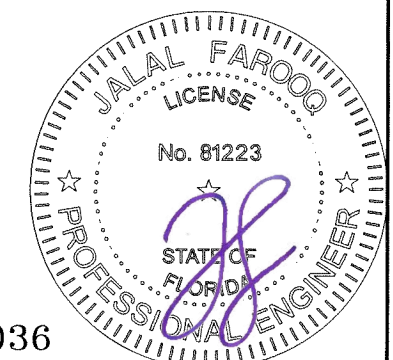


INTERMEDIATE JAMB ANCHOR
MAX. DESIGN LOADS = ±50 PSF
MAX. FRAME HEIGHT = 144 INCHES
MAX. MULLION SPACING = 72 INCHES

INTERMEDIATE MULLION ANCHOR
MAX. DESIGN LOADS = ±50 PSF
MAX. FRAME HEIGHT = 144 INCHES
MAX. MULLION SPACING = 72 INCHES

Sealed: 8/11/2023

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STORE 23-17F-PSZ

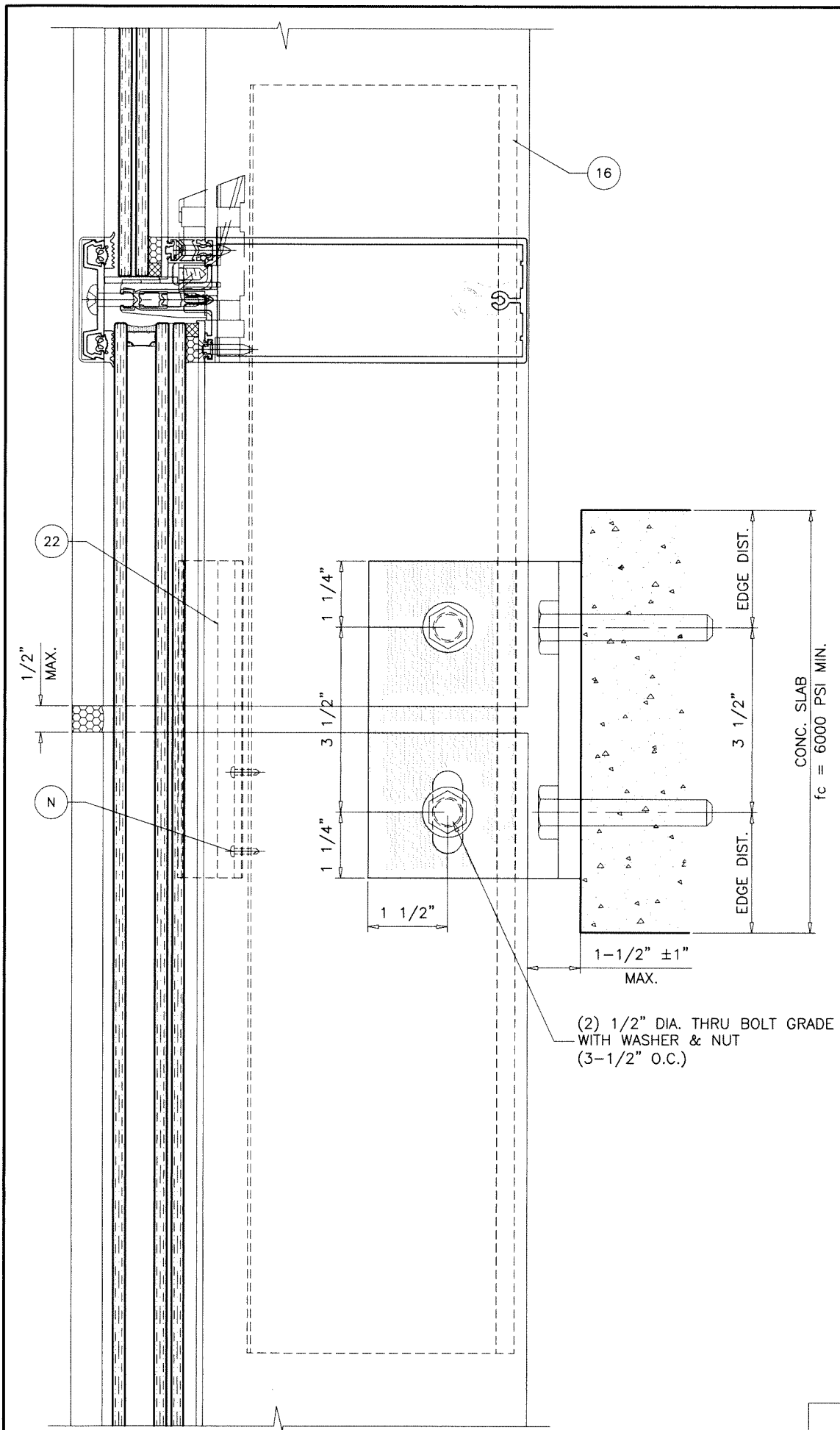
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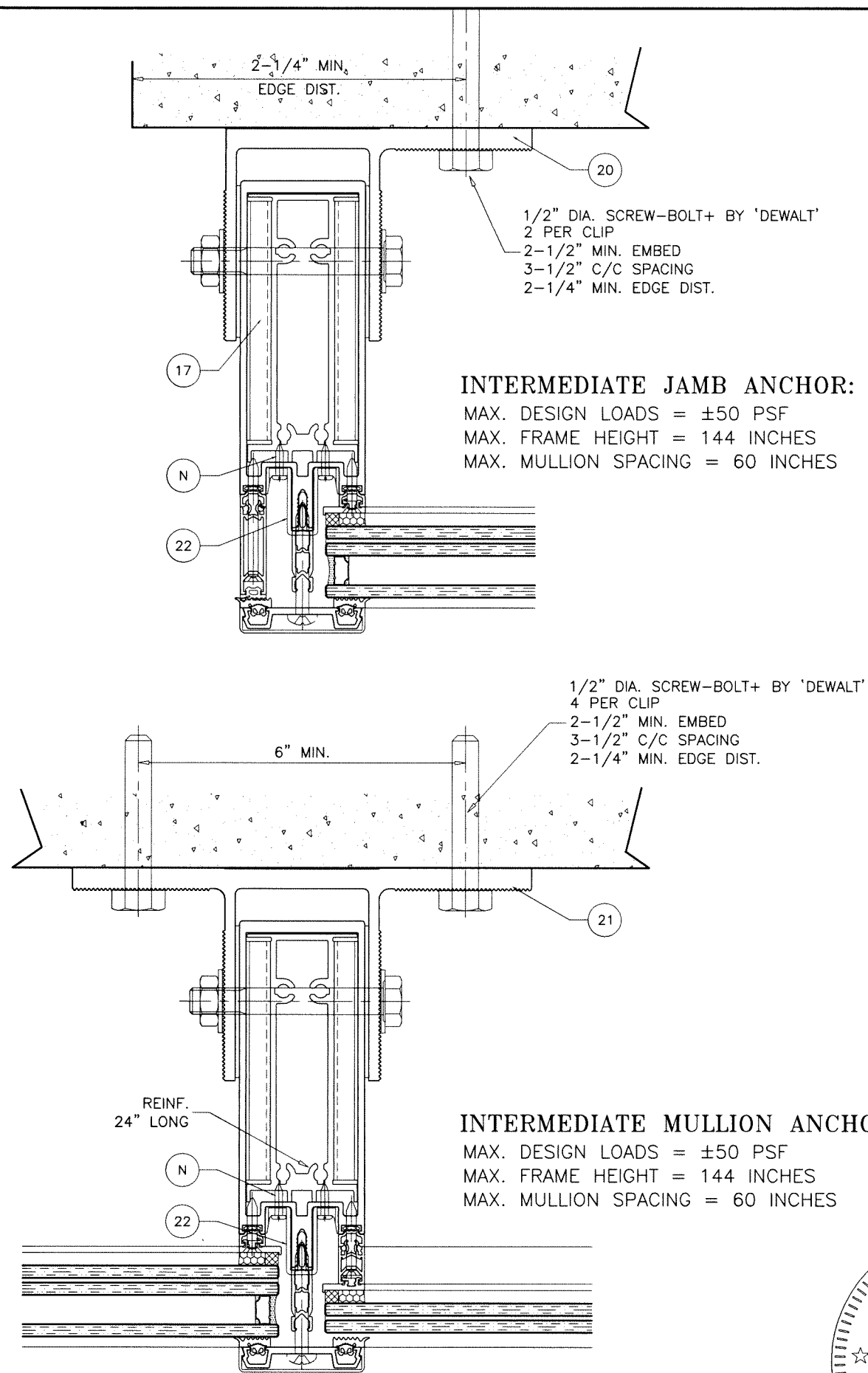
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date: 04-12-23
scale: 3/8" = 1"
dr. by: TARIQ
chk. by:

drawing no.
23-17F
sheet 8 of 11



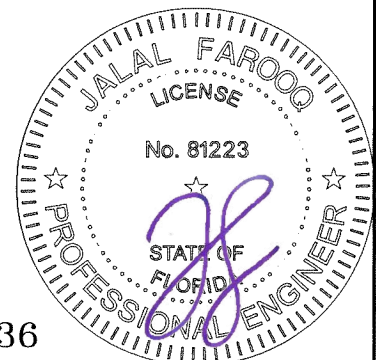
INTERMEDIATE ANCHORS



WIND/DEAD LOAD ANCHOR
6000 PSI MIN. CONCRETE

Sealed: 8/11/2023

FL #42036



AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

STORE \23-17F-PSZ

FWS-60 ALUMINUM HURRICANE CURTAIN WALL SYS. (L.M.I.)

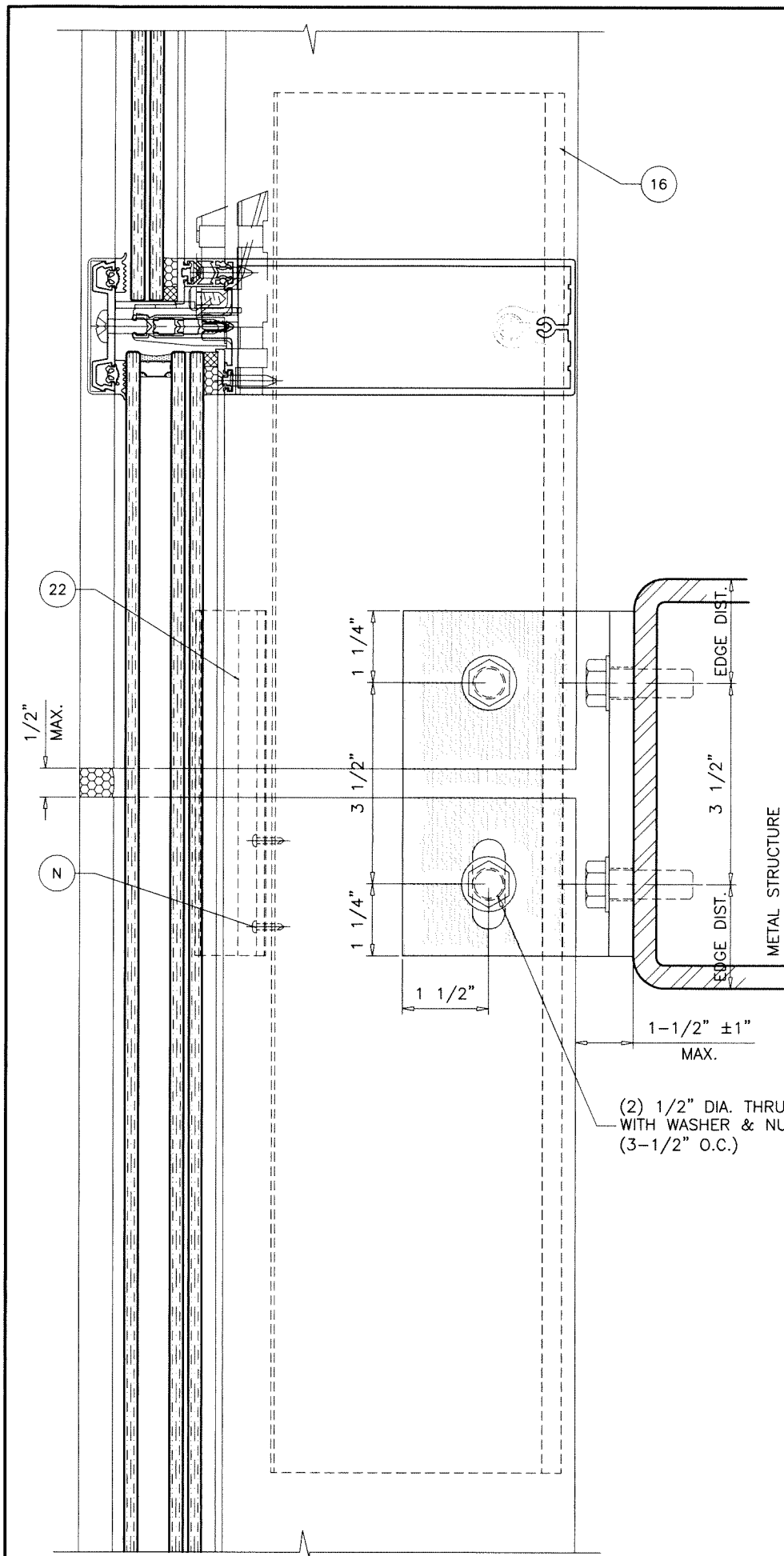
PAGEN Sp. z o.o.
Gnojnik 699
32-864 Gnojnik, Poland
Phone: +48 14 63 93 130
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revisions:

no	date	by	description

date: 04-12-23
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dr. by: TARIQ
chk. by:

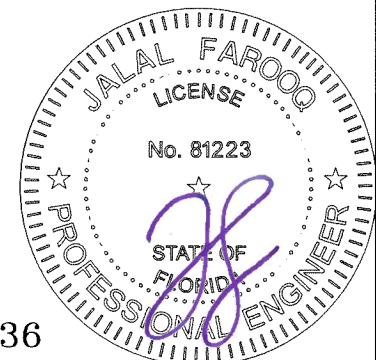
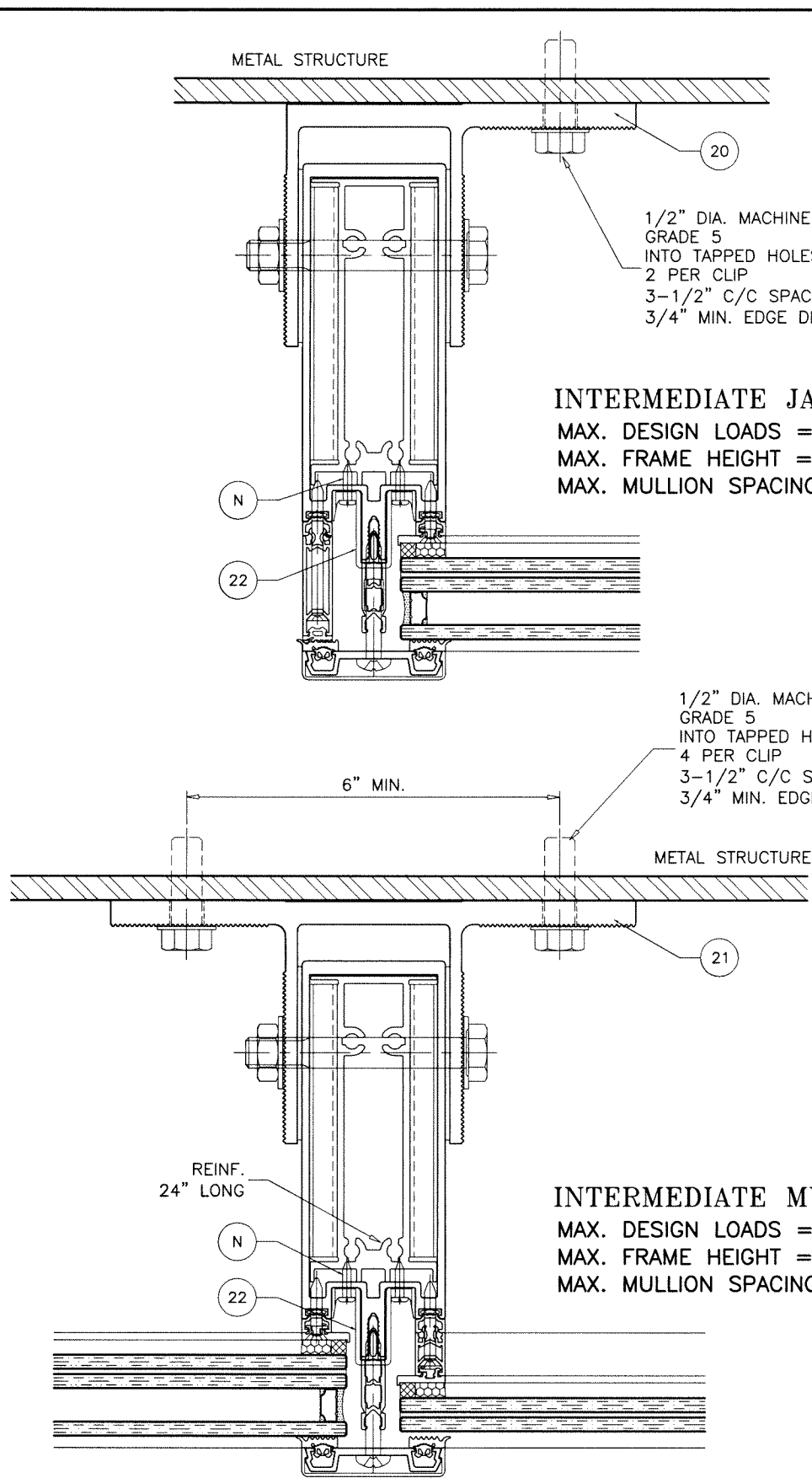
drawing no.
23-17F
Sheet 8.1 of 11



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

INTERMEDIATE ANCHORS

WIND/DEAD LOAD ANCHOR
INTO 1/8" THK. MIN. COMMERCIAL STEEL



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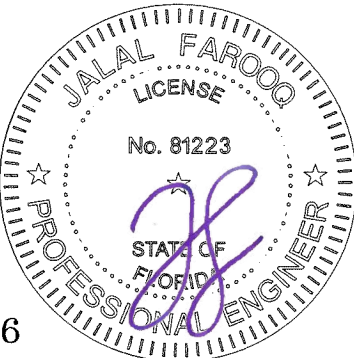
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sheet 9 of 11

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	351 910	VERTICAL MULLION	6063-T6	-
2	324 490	HORIZONTAL MULLION	6063-T6	-
3	477 660	MULLION PRESSURE PLATE	6063-T6	-
4	162 180	MULLION FACE COVER (VERT.)	6063-T6	-
5	160 630	MULLION FACE COVER (HORIZ.)	6063-T6	-
6	224 810	TONGUE EXTENSION	PVC	-
7	477 460	VERT. GLAZING ADAPTER (FOR 1 5/16" THICK INFILL)	6063-T6	-
8	477 490	VERT. GLAZING ADAPTER (FOR 9/16" THICK INFILL)	6063-T6	-
9	477 480	HORIZ. GLAZING ADAPTER (FOR 9/16" THICK INFILL)	6063-T6	-
10	307 660	SSG GLAZING ADAPTER (VERT./HORIZ.)	6063-T6	-
11	477 520	HEAD/SILL MULLION PERIMETER SPACER	6063-T6	-
12	-	DEAD LOAD BLOCK 5" X 3" X .68" (AT SILL 1 3/4" FROM ENDS)	PVC	-
13	226 147	HORIZ. TO VERT. MULLION ASSEMBLY KEY	6063-T6	-
14	307 030	MULLION ANCHOR/SHEAR BLOCK	6063-T6	4-11/16" LONG MIN.
14A	307 030	MULLION REINFORCING	6063-T6	LENGTH = FRAME HEIGHT - 6"
15	228 387	MULLION ANCHOR/SHEAR BLOCK BASE PLATE	6063-T6	-
16	336 260	JOINT SPLICE	6063-T6	24" LONG MIN.
17	324 960	MULLION MID-SPAN REINFORCING SLEEVE SPACER BLOCK	PVC	-
20	351 250 (TRIMMED)	JAMB MID-SPAN 'U' ANCHOR	6063-T6	-
21	351 250	MULLION MID-SPAN 'U' ANCHOR	6063-T6	-
22	228 692	MULLION STACK/SPLICE TONGUE ALIGNMENT SLEEVE	6063-T6	6" LONG AT MULLION SPLICE
23	246 476	EXTERIOR GLAZING GASKET (VERT.)	EPDM-SHORE 70	-
24	246 487	EXTERIOR GLAZING GASKET (HORIZ.)	EPDM-70 DUROMETER	-
25	204 533	EXTERIOR GASKET (PERIMETER PRESSURE PLATE SPACER)	EPDM-70 DUROMETER	-
26	230 059	JOINT PLUG/WATER DEFLECTOR	PVC	-
27	205 892	GLASS SETTING BLOCK	EPDM-70 DUROMETER	-
28	281 853	CRUCIFORM SETTING CHAIR (FOR 1 5/16" THICK INFILL)	6063-T6	-
29	268 651	SETTING CHAIR (FOR 9/16" THICK INFILL)	6063-T6	-
30	278 185	INTERIOR COMPRESSION GASKET	EPDM-70 DUROMETER	-
31	278 184	INTERIOR COMPRESSION GASKET	EPDM-70 DUROMETER	-
32	224 842	INTERIOR GLAZING ADAPTER FIN-SEAL GASKET	EPDM-70 DUROMETER	-
33	V2100	DOUBLE SIDED ADHESIVE GLAZING TAPE (NORTON)	FOAM RUBBER	-
A	1/4-20 X 2 1/4" P.P.H.M.S.	PRESSURE PLATE FASTENER	ZINC PL. CARBON STEEL	AT 12" O.C. MAX.
B	#12 X 2" P.F.H.S.M.S.	GLAZING ADAPTER FASTENER (9/16" GLASS)	ZINC PL. CARBON STEEL	AT 12" O.C. MAX.
C	#12 X 1" P.F.H.S.M.S.	GLAZING ADAPTER FASTENER (1 5/16" GLASS)	ZINC PL. CARBON STEEL	AT 12" O.C. MAX.
D	#12 X 2" P.F.H.S.M.S.	JAMB MULLION PERIMETER SPACER FASTENER	ZINC PL. CARBON STEEL	AT 12" O.C. MAX.
E	#12 X 2" P.F.H.S.M.S.	JAMB MULLION PERIMETER SPACER FASTENER	ZINC PL. CARBON STEEL	AT 12" O.C. MAX.
F	5/16-18 TYPE 'F' F.H.M.S.	MULLION SHEAR BLOCK/ANCHOR PLATE FASTENER	ZINC PL. CARBON STEEL	-
M	5/16-24 X 1" H.H. CAP SCREW (GRADE 5)	MID-SPAN 'U' ANCHOR LUG ADJUSTMENT BOLT	ZINC PL. CARBON STEEL	-
N	#10 X 5/8" P.F.H.S.M.S.	MULLION SPLICE TONGUE ALIGNMENT SLEEVE FASTENER	ZINC PL. CARBON STEEL	-

SEALANTS:

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



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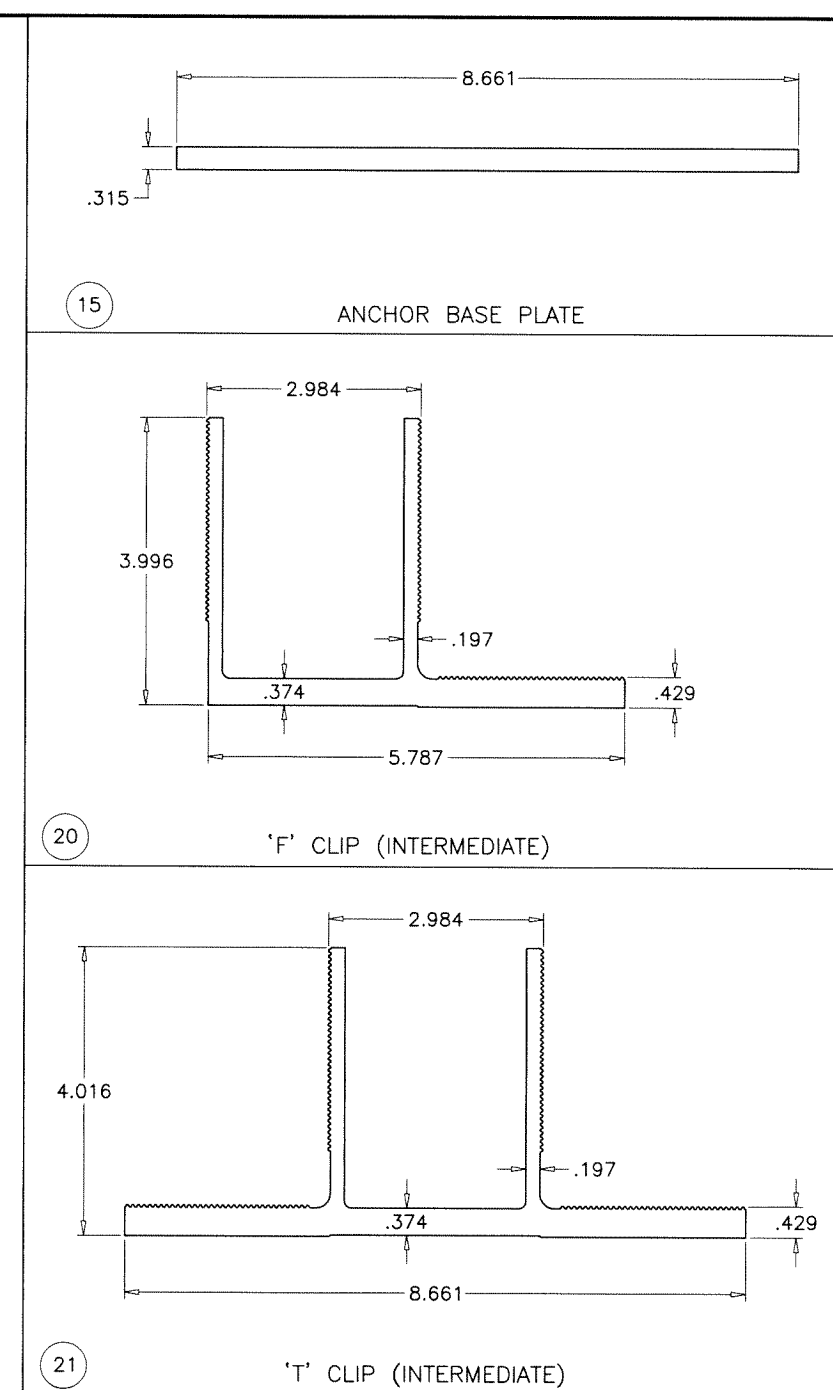
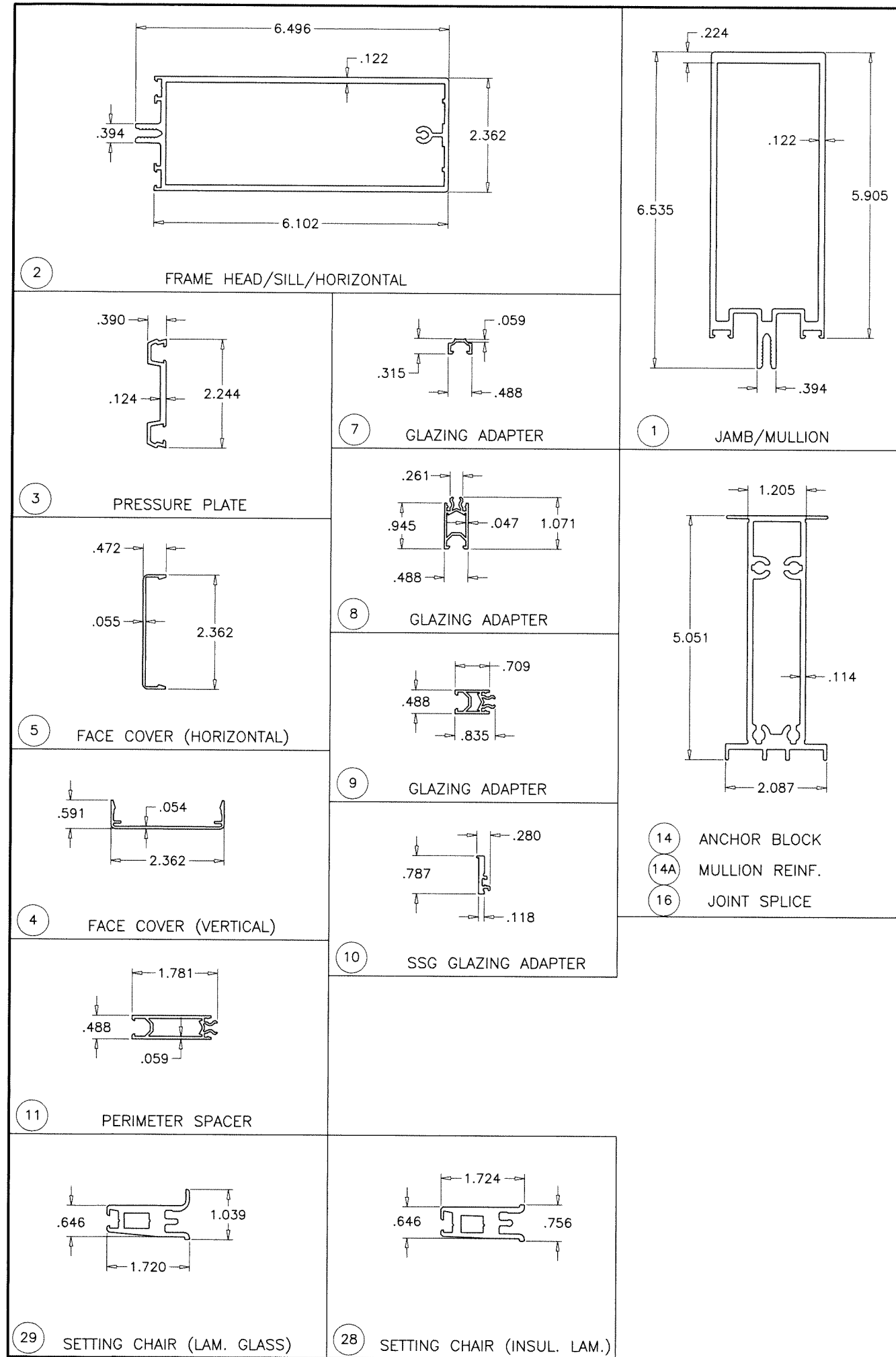
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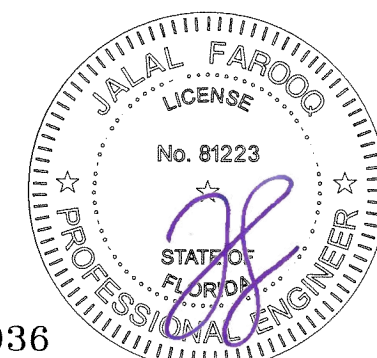
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