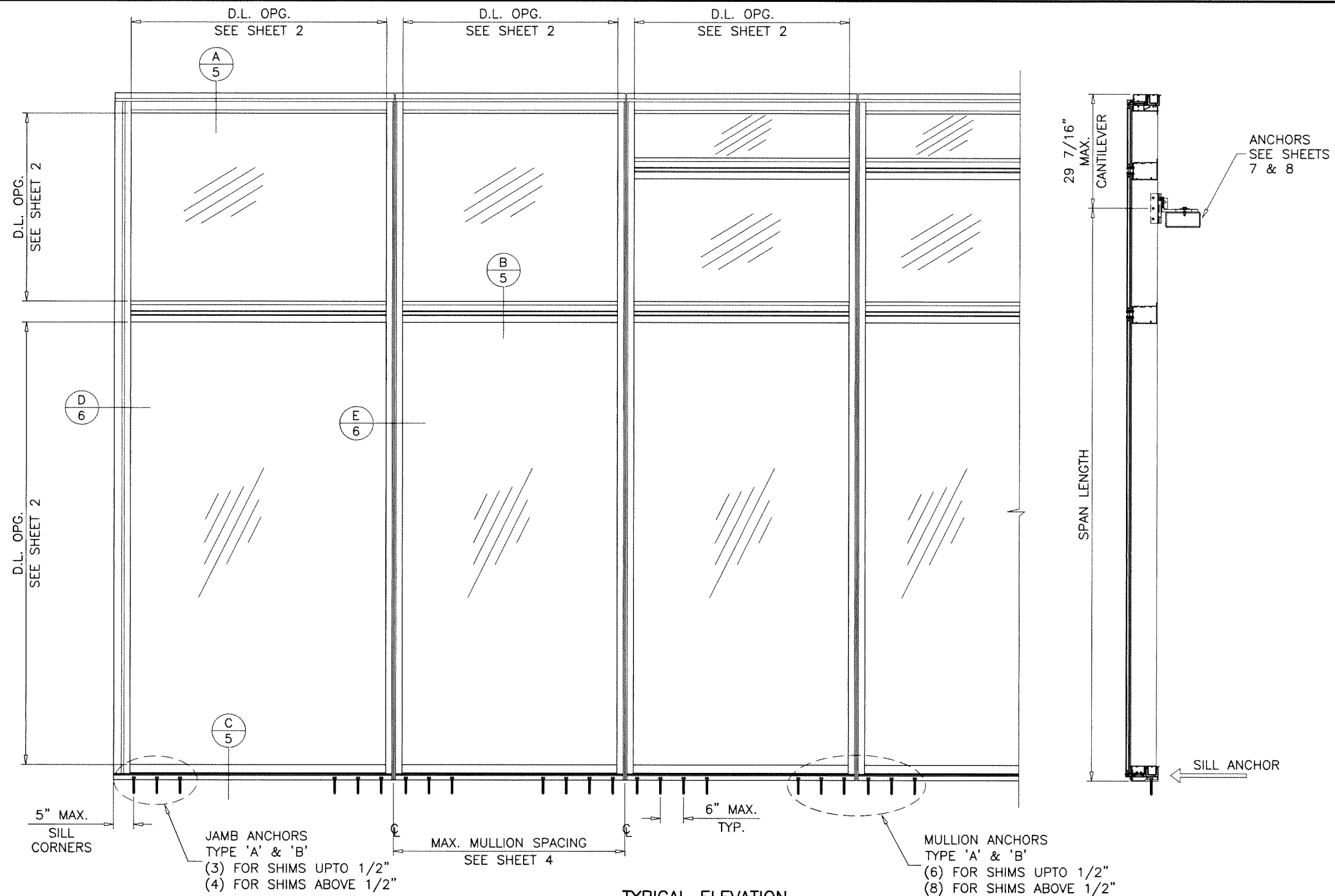




TYPICAL ELEVATION
SINGLE SPANS WITH CANTILEVER

SERIES 8000 UNITIZED 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.

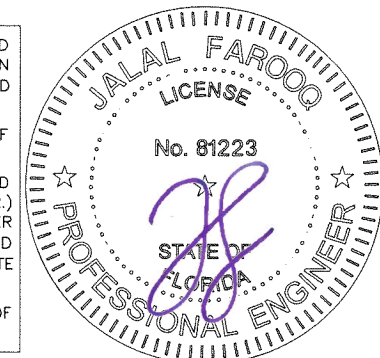
- STEP 1** DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 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.

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

Sealed: 9/11/2023

FL #41723

- 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
FBBE #3538

SERIES 8000 UNITIZED CURTAIN WALL SYS. (L.M.I.)

NEW HUDSON FACADES
1295 NORTHLAND DRIVE, SUITE 150
MENDOTA HEIGHTS, MN 55120
Phone: (952) 563-4376 Fax: (-)

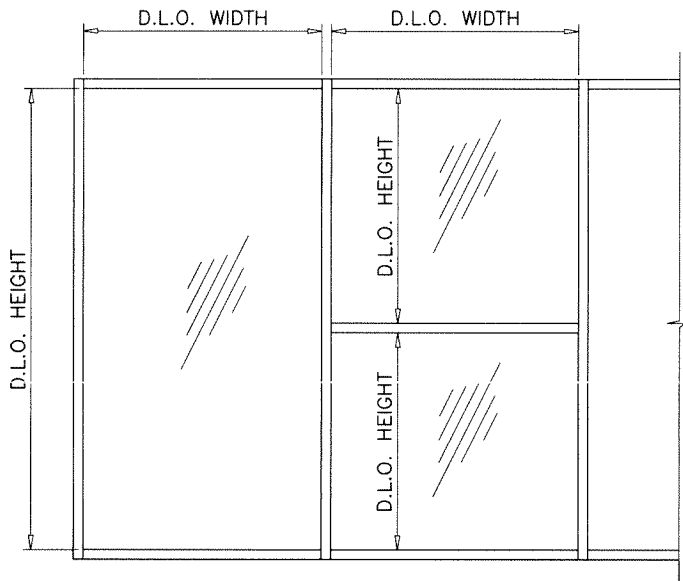
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A	09.11.23		UPDATED TO 2023 FBC

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dr. by:	TARIQ
chk. by:	

drawing no.
22-32F
sheet 1 of 10

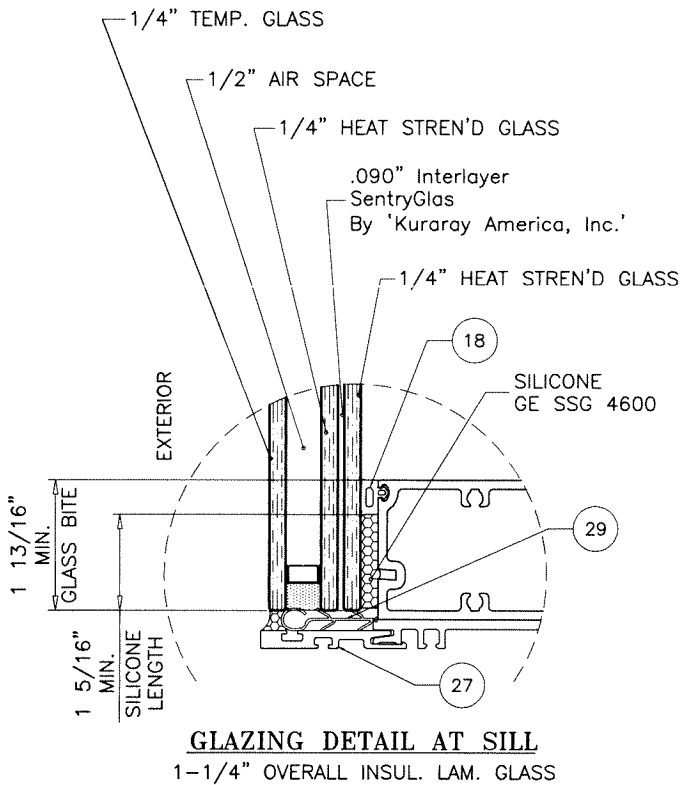
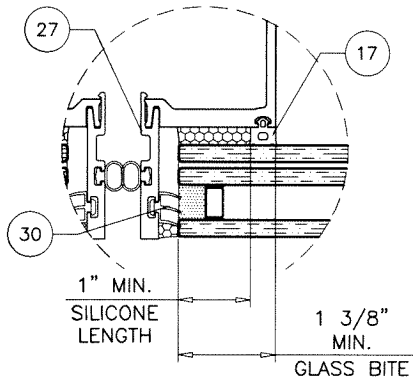
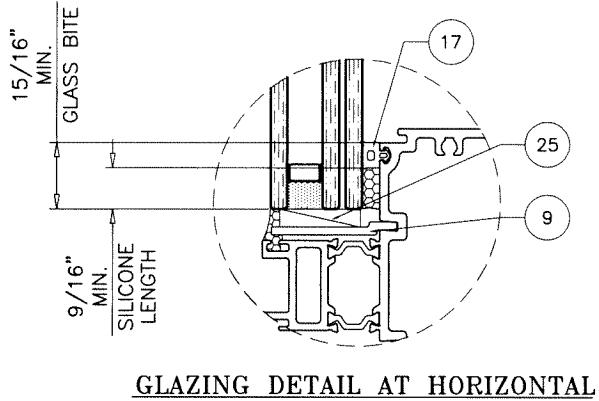
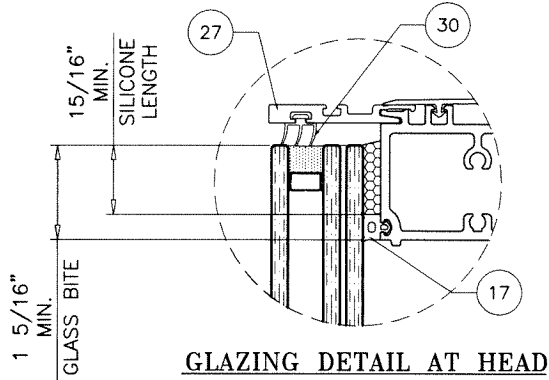
GLASS DESIGN LOAD CAPACITY - PSF			
NOMINAL DIMS.		1-1/4" INSUL. LAM. GLASS	
D.L.O. WIDTH	D.L.O. HEIGHT	EXT.(+)	INT.(-)
39-1/2"	98-3/4"	95.0	95.0
45-1/2"		95.0	95.0
51-1/2"		95.0	95.0
57-1/2"		92.1	92.1
63-1/2"		83.4	83.4
39-1/2"	110-3/4"	95.0	95.0
45-1/2"		95.0	95.0
51-1/2"		95.0	95.0
57-1/2"		92.1	92.1
39-1/2"	114-1/2"	95.0	95.0
45-1/2"		95.0	95.0
51-1/2"		95.0	95.0
55-3/4"		95.0	95.0
39-1/2"	122-3/4"	95.0	95.0
45-1/2"		95.0	95.0
51-1/2"		95.0	95.0
39-1/2"	139-3/4"	95.0	95.0
45-1/2"		95.0	95.0

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



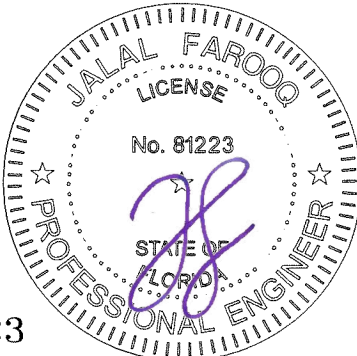
STRUCTURAL SILICONE (SSG) CAPACITY-PSF				
D.L.O. WIDTH	SILICONE LENGTH			
	9/16"	15/16"	1"	1-5/16"
39-1/2"	67.5	95.0	95.0	95.0
45-1/2"	60.0	95.0	95.0	95.0
51-1/2"	54.0	90.0	95.0	95.0
55-3/4"	50.4	84.0	89.6	95.0
57-1/2"	49.1	81.8	87.3	92.1
63-1/2"	45.0	75.0	80.0	83.4

LOWER DESIGN LOADS FROM GLASS CAPACITY CHART OR SILICONE CAPACITY CHART SHALL CONTROL.



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

Sealed: 9/11/2023



FL #41723

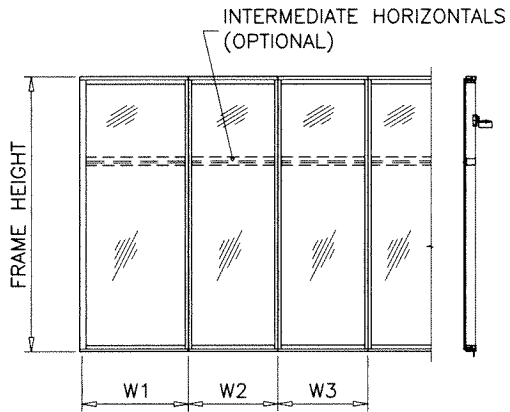
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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 9360 SUNSET DRIVE, SUITE 220
 MIAMI, FLORIDA 33173
 TEL. (305) 264-8100
 WWW.AFCENG.COM
 FBPE #3538

SERIES 8000 UNITIZED CURTAIN WALL SYS. (L.M.I.)
NEW HUDSON FACADES
 1295 NORTHLAND DRIVE, SUITE 150
 MENDOTA HEIGHTS, MN 55120
 Phone: (952) 563-4376 Fax: (-)

revisions:		no date by description	
date:	09-01-22	scale:	3/8" = 1"
dr. by:	TARIQ	chk. by:	
drawing no.	22-32F		
sheet	2 of 10		

JAMB/MULLION DESIGN LOAD CAPACITY – PSF
WITH CANTILEVER
SINGLE SPAN WITH OR WITHOUT INTERMEDIATE HORIZONTALS

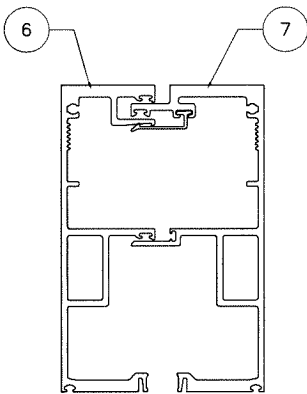
NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'	
WIDTH (W)	SPAN LENGTH	EXT.(+)	INT.(–)
48"	120"	95.0	95.0
54"		95.0	95.0
60"		95.0	95.0
66"		95.0	95.0
72"		95.0	95.0
48"	126"	95.0	95.0
54"		95.0	95.0
60"		95.0	95.0
66"		95.0	95.0
48"	132"	95.0	95.0
54"		95.0	95.0
60"		95.0	95.0
66"		87.8	87.8
48"	138"	95.0	95.0
54"		91.4	91.4
60"		82.3	82.3
48"	144"	88.4	88.4
54"		78.6	78.6
60"		70.7	70.7
48"	149"	78.5	78.5
54"		69.8	69.8
60"		62.8	62.8



WIDTH (W) = W1
AT JAMB

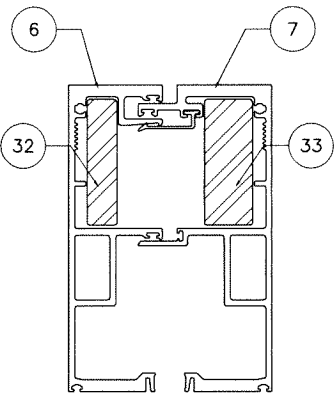
WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION

INTERPOLATION BETWEEN WIDTHS OR HEIGHTS ALLOWED.



JAMB 'J1'

Ix IN^4	Sx IN^3
26.381	9.049

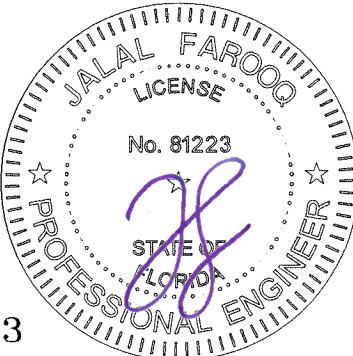


MULLION 'M1'

	Ix IN^4	Sx IN^3
ALUMINUM	26.381	9.049
STEEL	2.449	1.866
TOTAL	33.414	
Ix ALUM + Ix STL X 2.9		

MULLION

Sealed: 9/11/2023



FL #41723

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FBPB #3538

STORE\22-32F-NHF

SERIES 8000 UNITIZED CURTAIN WALL SYS. (L.M.I.)

NEW HUDSON FACADES
1295 NORTHLAND DRIVE, SUITE 150
MENDOTA HEIGHTS, MN 55120
Phone: (952) 563-4376 Fax: (-)

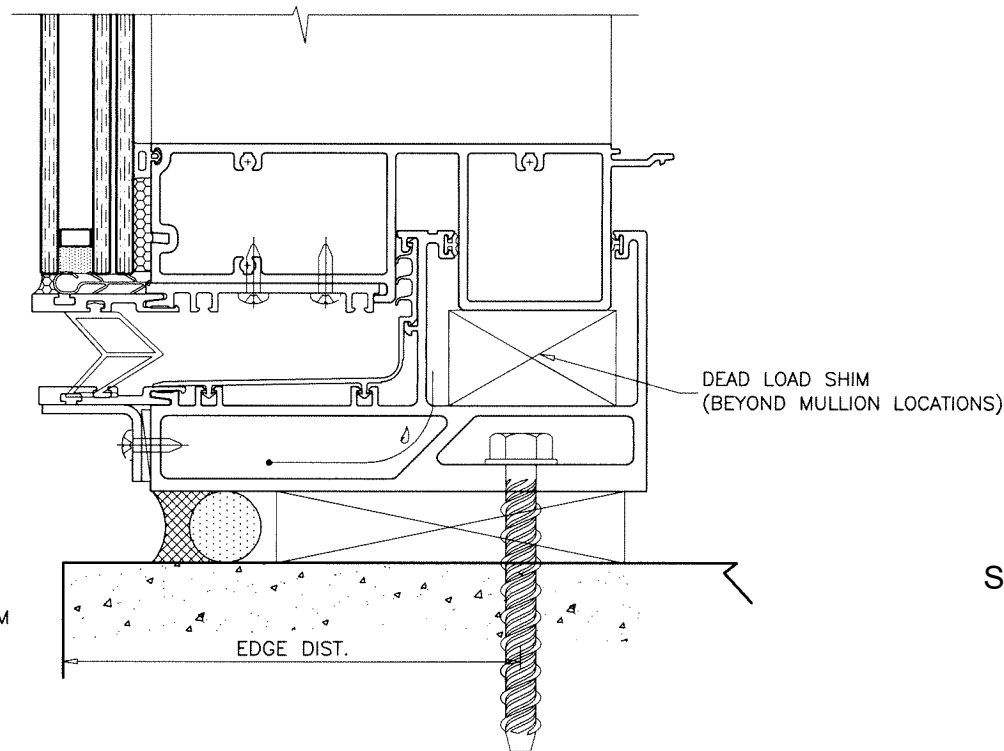
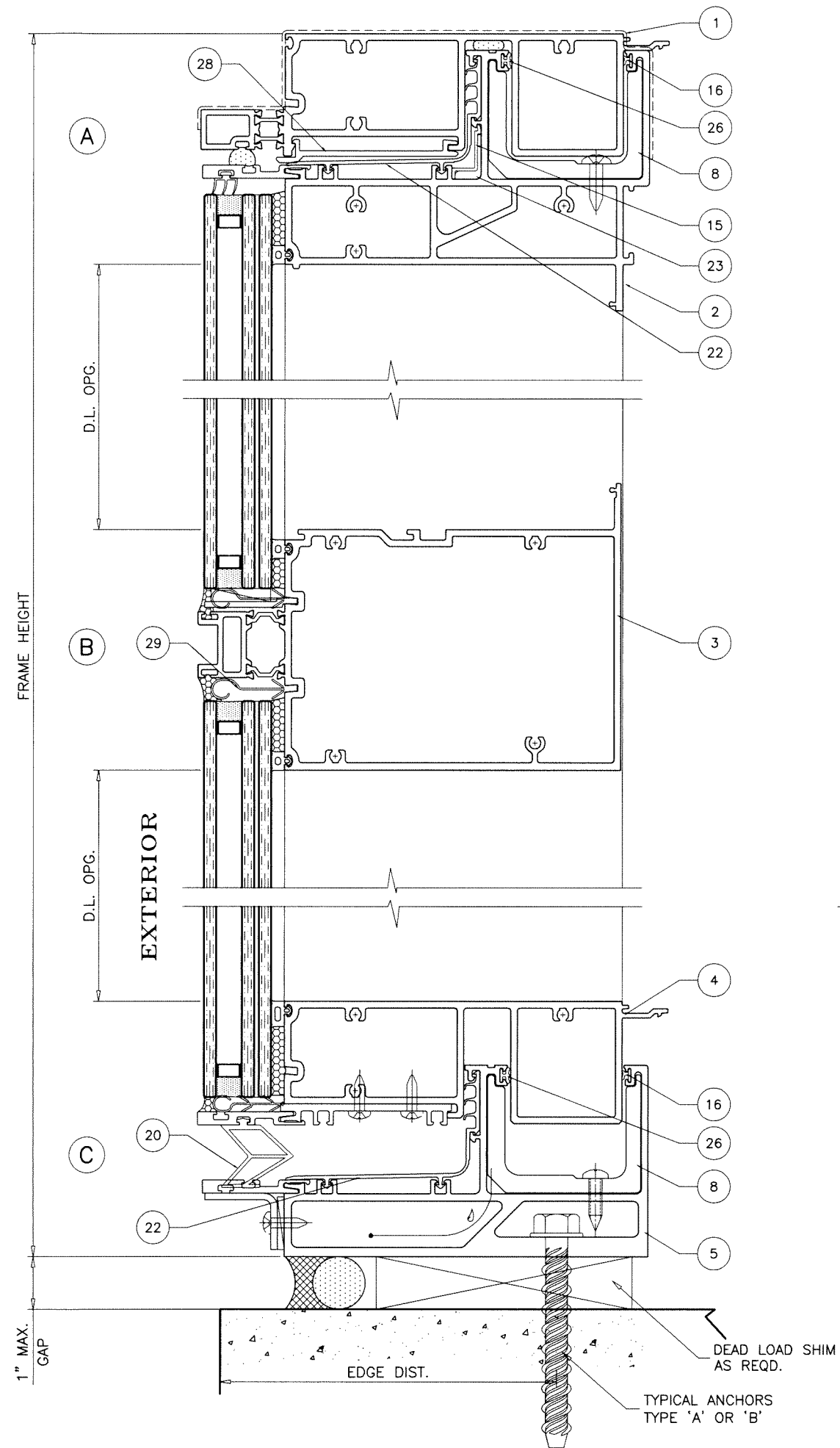
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date: 09-01-22	scale: -	dr. by: TARIO	chk. by:
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drawing no.

22-32F

sheet 4 of 10



METAL STRUCTURE NOT BY 'NEW HUDSON FACADES'
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS:

ANCHOR TYPE 'A' - 1/2" DIA. SCREW-BOLT+ BY 'DEWALT'

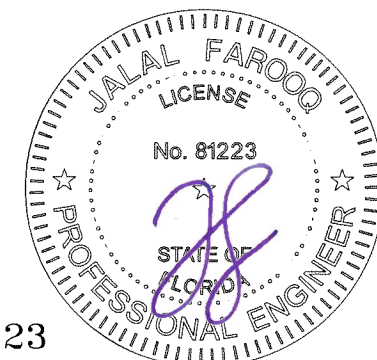
INTO 3000 MIN. CONCRETE
4-1/4" MIN. EMBED
6" MIN. CENTERLINE-TO-CENTERLINE SPACING
4-1/2" MIN. EDGE DISTANCE

ANCHOR TYPE 'B' - 1/2" DIA. MACHINE SCREWS (GRADE 5 CRS)

INTO METAL STRUCTURES
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
3/4" MIN. EDGE DISTANCE
3/16" THK. MIN. ALUMINUM (6063-T6)
1/8" THK. MIN. STEEL (Fy = 36 KSI MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

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

Sealed: 9/11/2023

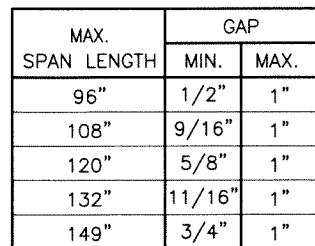


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revisions:		no date by description	
date:	09-01-22	scale:	3/8" = 1"
dr. by:	TARIO	chk. by:	
drawing no.	22-32F		
sheet	5 of 10		

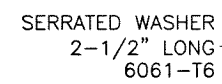
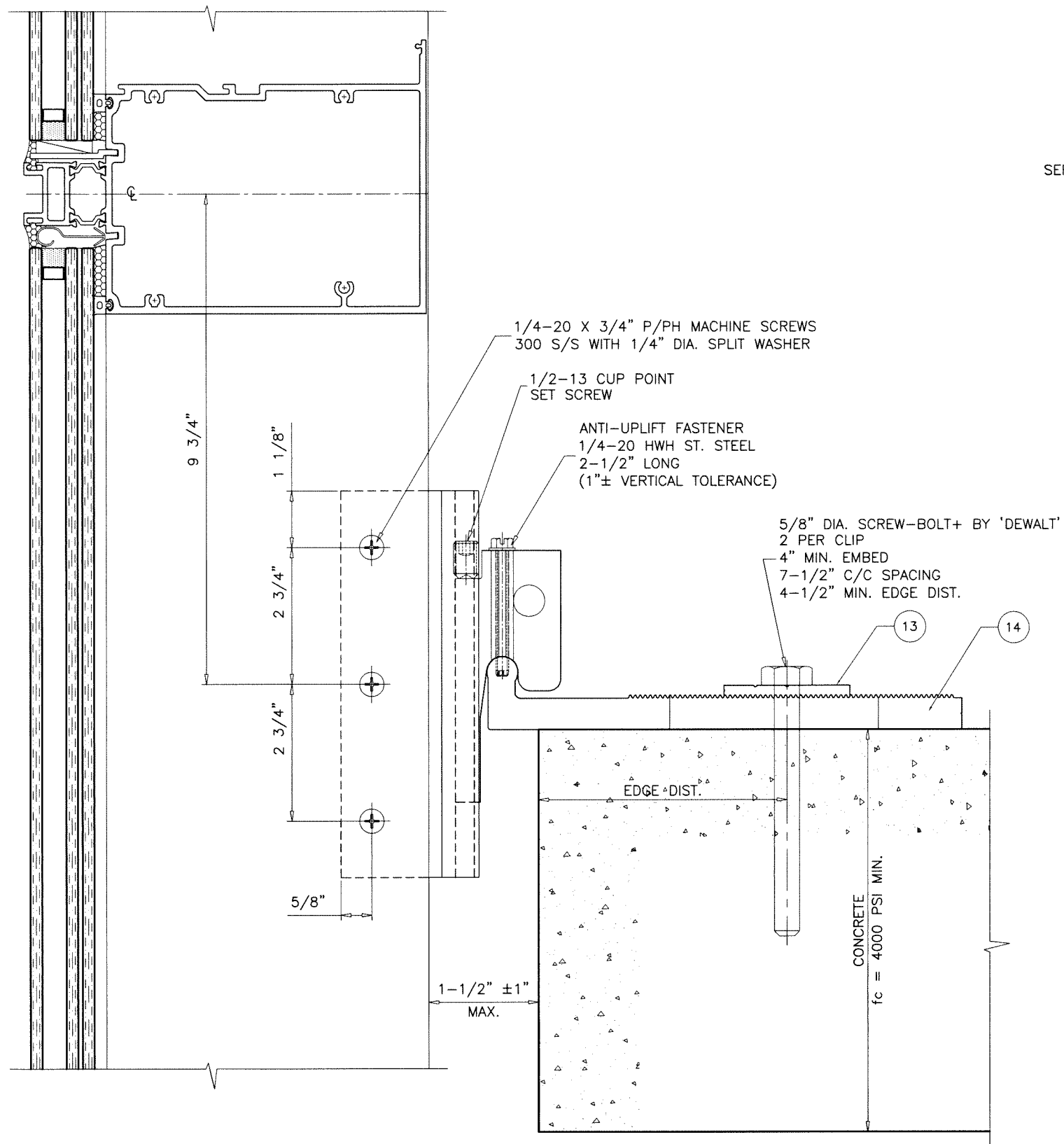


A circular professional engineer seal for Jalal Farooq. The outer ring contains the text "JALAL FAROOQ" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. Inside this ring, the word "LICENSE" is at the top and "STATE OF FLORIDA" is at the bottom, also separated by two stars. In the center, the license number "No. 81223" is printed above a large, stylized purple signature. The seal has a dashed outer border and a solid inner border.

STORE\22-32F-NHF

drawing no.
22-32F

sheet 6 of 10

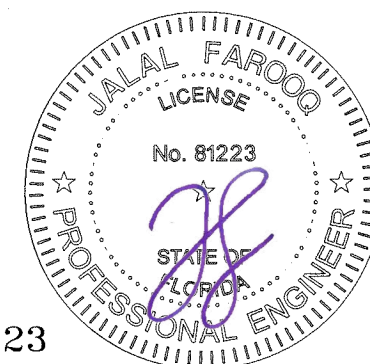


INTERMEDIATE ANCHORS

WIND/DEAD LOAD ANCHOR
4000 PSI MIN. CONCRETE

Sealed: 9/11/2023

FL #41723

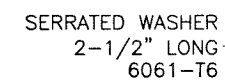
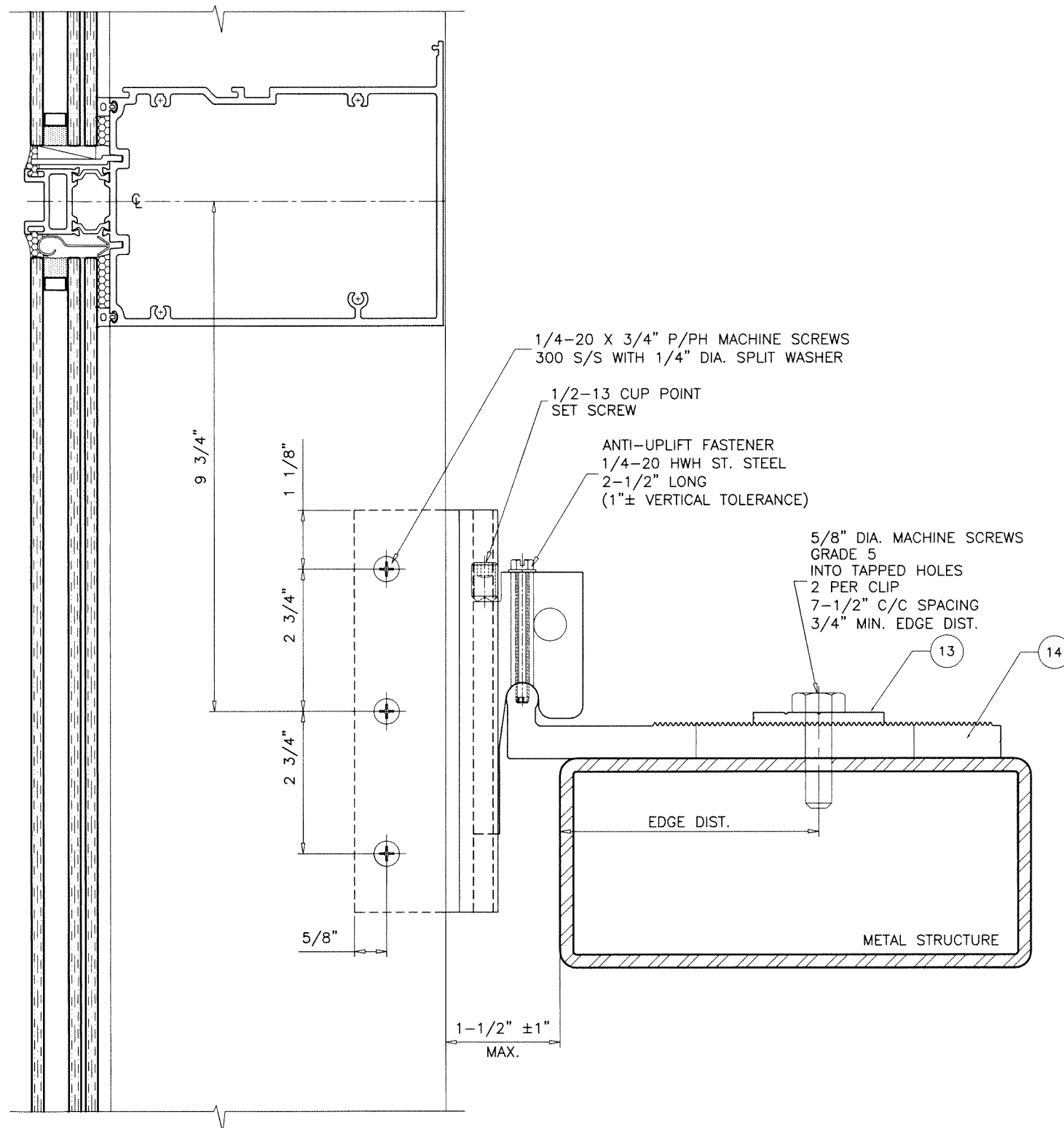


SERIES 8000 UNITIZED CURTAIN WALL SYS. (L.M.I.)

NEW HUDSON FACADES
1295 NORTHLAND DRIVE, SUITE 150
MENDOTA HEIGHTS, MN 55120
Phone: (952) 563-4376 Fax: (-)

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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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STORE \22-
FBPE #8538

date: 09-01-22		revisions:	
scale: 3/8" = 1"		no	date
dr. by: TARIQ		by description	
chk. by:			
drawing no. 22-32F			
sheet 7 of 10			



INTERMEDIATE ANCHORS

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

Sealed: 9/11/2023



FL #41723

SERIES 8000 UNITED CURTAIN WALL SYS. (L.M.I.)

NEW HUDSON FACADES
1295 NORTHLAND DRIVE, SUITE 150
MENDOTA HEIGHTS, MN 55120
Phone: (952) 563-4376 Fax: (-)

AL-FAROOQ CORPORATION
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9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
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STORE\22-
FBPE #3538

date: 09-01-22		revisions:	
scale: 3/8" = 1"	no	date	by description
dr. by: TARIQ			
chk. by:			
drawing no. 22-32F			
sheet 8 of 10			

ITEM NO.	PART NO.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	EX004	FRAME HEAD	6063-T6	-
2	EX001	HEAD TRANSOM	6063-T6	-
3	EX003	INTERMEDIATE HORIZONTAL	6063-T6	-
4	EX002	SILL TRANSOM	6063-T6	-
5	EX019	STARTER SILL	6063-T6	-
6	EX015	FEMALE MULLION	6063-T6	-
7	EX016	MALE MULLION	6063-T6	-
8	EX404	SHEAR SPLICE	6005-T5	-
9	EX410	SETTING CHAIR	6063-T6	-
10	EX401	ANTI-BUCKLING CLIP	6063-T6	-
11	EX502	ANCHOR HOOK	6005-T5	-
12	EX501	ANCHOR SLIDE	6005-T5	-
13	EX503	ANCHOR WASHER	6005-T5	-
14	EX505	ANCHOR BASE PLATE	6061-T6	-
15	EX403	INTERNAL GUTTER SPRING CLIP	6063-T6	-
16	EG001	AIRSEAL GASKET	SANTOPRENE	-
17	EG002	SMALL BED GASKET	SILICONE	DUROMETER 70±5 SHORE A
18	EG003	EXTENDED BED GASKET	SILICONE	DUROMETER 70±5 SHORE A
19	EG007	SPANDREL SPACER GASKET	SILICONE	DUROMETER 85±5 SHORE A
20	EG010	HORIZONTAL RAINSCREEN GASKET	SILICONE	DUROMETER 70±5 SHORE A
21	EG014	4-WAY VERTICAL GASKET	SILICONE	DUROMETER 70±5 SHORE A
22	EG015	WEATHER BARRIER GASKET	EPDM	DUROMETER 70±5 SHORE A
23	EG016	4-WAY SEAL GASKET, 2-1/4" LONG	SILICONE SPONGE	-
24	EG017	4-WAY SEAL GASKET, 2-1/4" LONG	SILICONE SPONGE	-
25	EG018	SETTING BLOCKS, AT 1/4 POINTS	SILICONE	DUROMETER 85±5 SHORE A
26	EP001	SOUND DAMPENER	RIGID PVC	-
27	EP004	GLAZING BLADE	RIGID PVC	-
28	EP005	THERMAL SHIELD	RIGID PVC	-
29	EP008	SEALANT BACKER	POLYETHYLENE	-
30	EP003	GLAZING BLADE SEALANT BACKER	POLYETHYLENE	-
31	EG011	VERTICAL GASKET	SANTOPRENE	-
32	-	MULLION REINF. (LENGTH = SPAN LENGTH - 4.75")	STEEL	A36, Fu MIN. = 58 KSI
33	-	MULLION REINF. (LENGTH = SPAN LENGTH - 4.75")	STEEL	A36, Fu MIN. = 58 KSI
34	-	-	-	-

SEALANTS:

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



Sealed: 9/11/2023

FL #41723

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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
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FBPE #3538

STORE \ 22-32F - NHF

SERIES 8000 UNITIZED CURTAIN WALL SYS. (L.M.I.)

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1295 NORTHLAND DRIVE, SUITE 150
MENDOTA HEIGHTS, MN 55120
Phone: (952) 563-4376 Fax: (-)

revisions:
no date by description

date: 09-01-22

scale: 3/8" = 1"

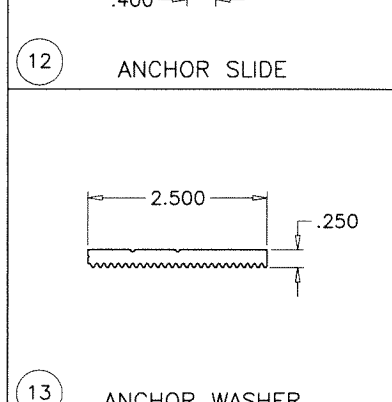
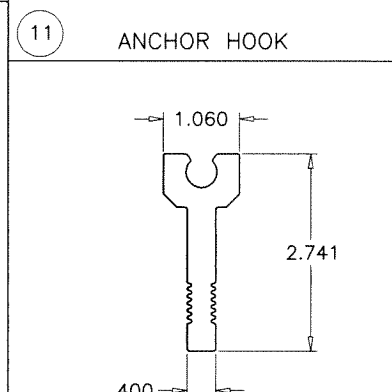
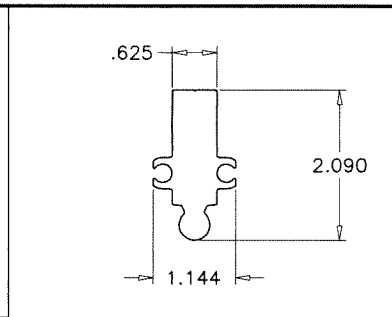
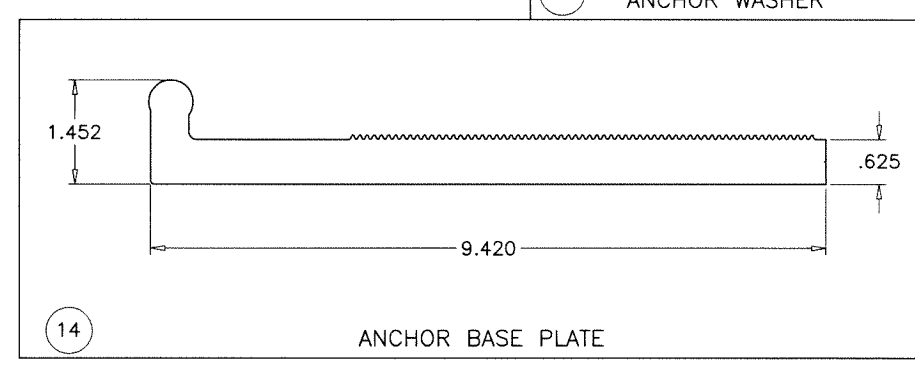
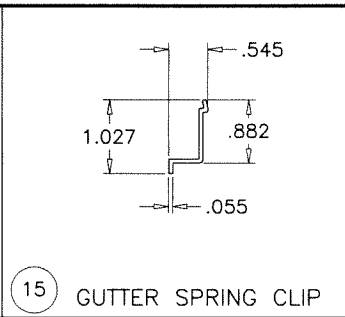
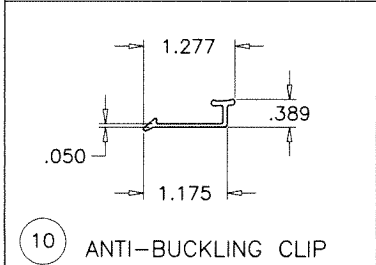
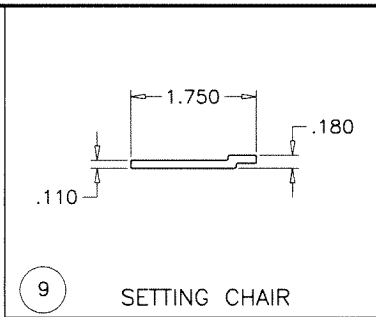
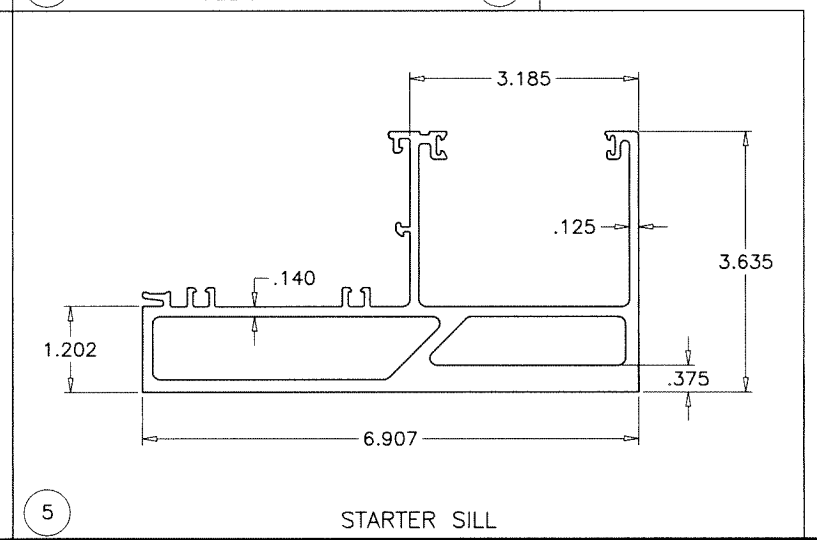
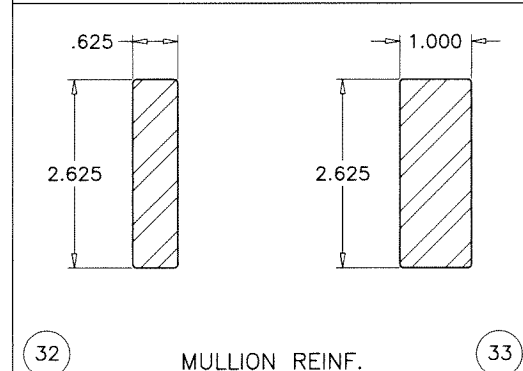
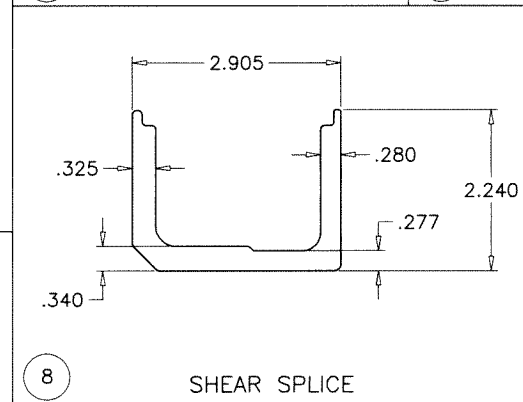
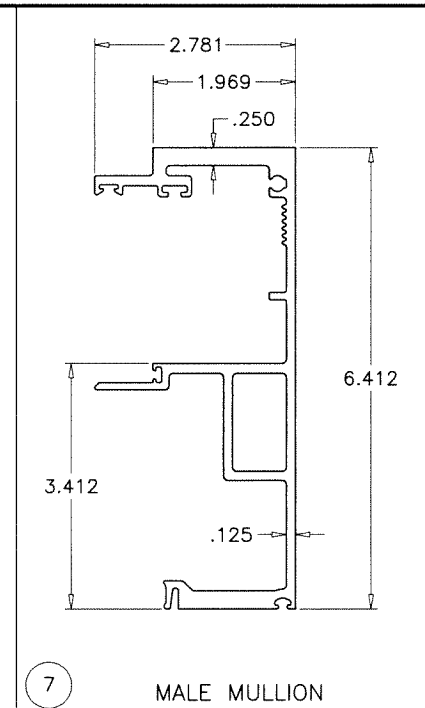
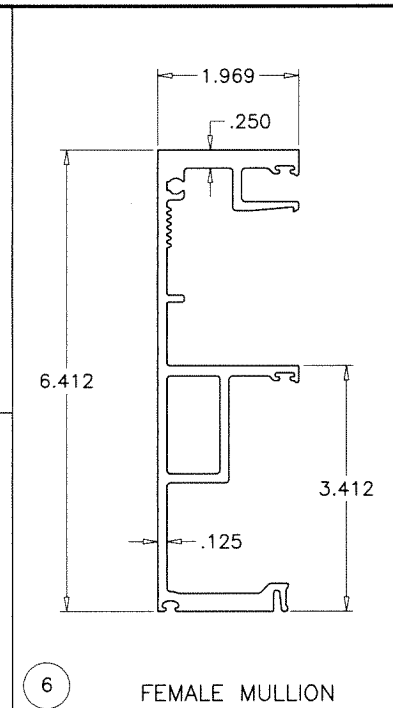
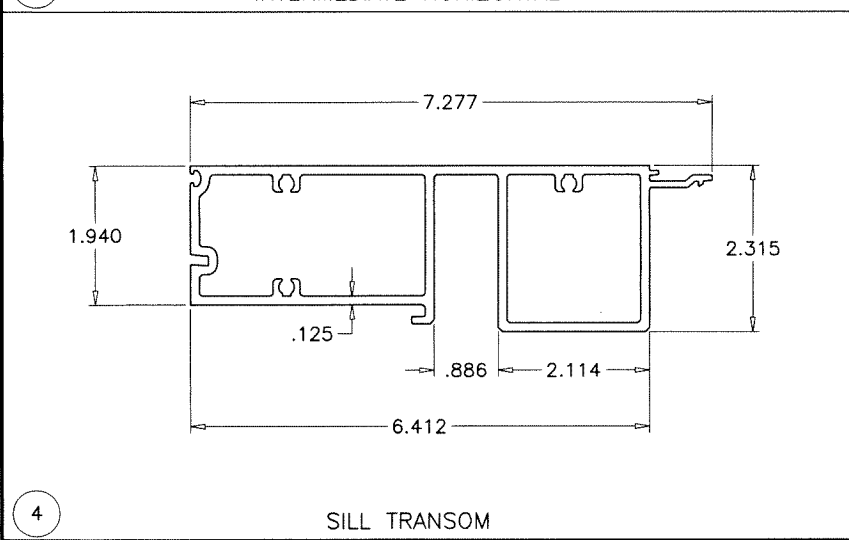
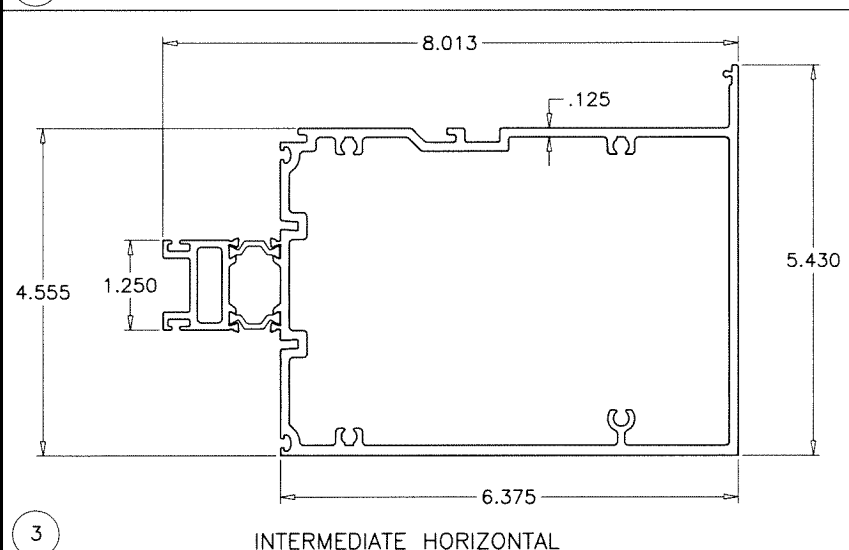
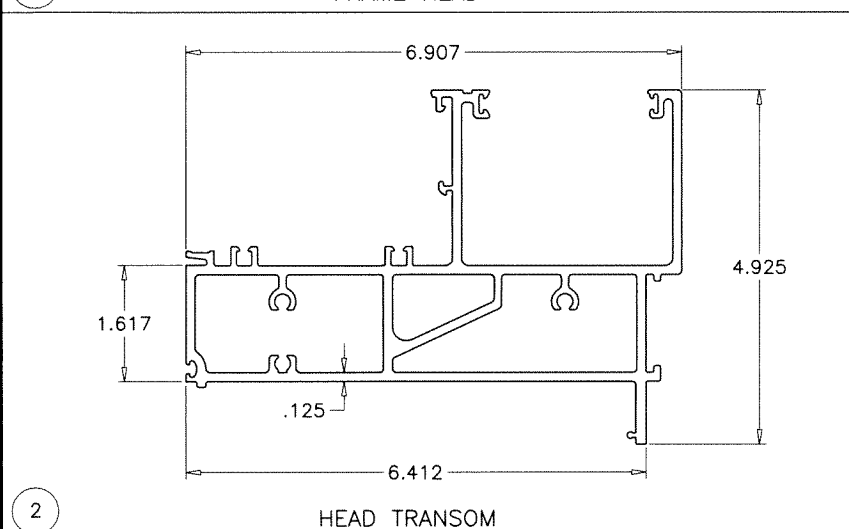
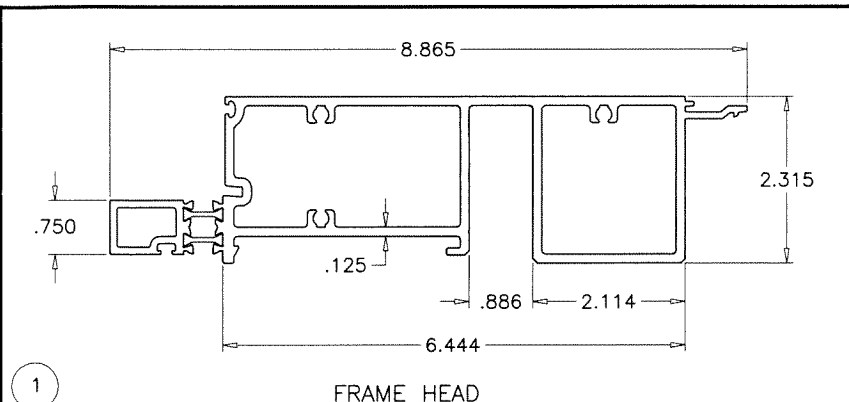
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chk. by:

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22-32F

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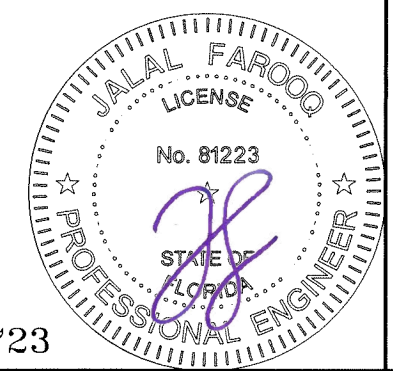


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FL #41723

date: 09-01-22
 scale: 3/8" = 1"
 dr. by: TARIQ
 chk. by:
 drawing no.
22-32F
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