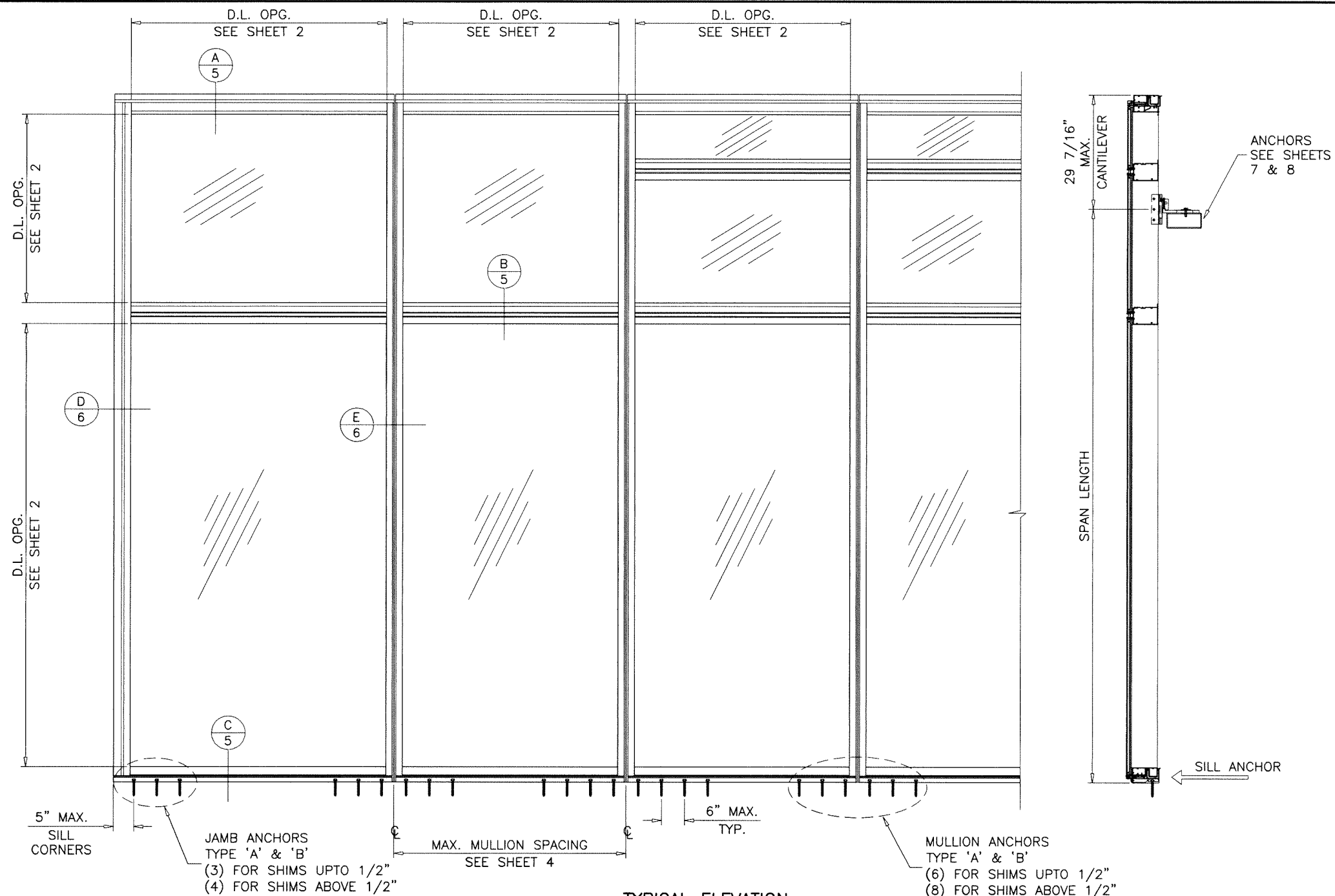




TYPICAL ELEVATION
SINGLE SPANS WITH CANTILEVER

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.

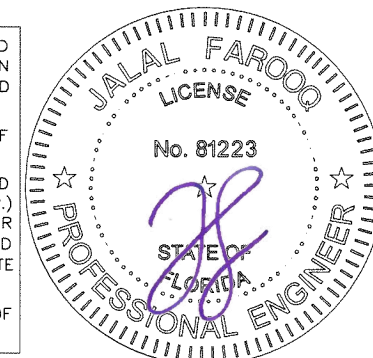
- STEP 1** DETERMINE DESIGN WIND PRESSURE REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR GLASS DESIGN LOAD CAPACITY.
- STEP 3** CHECK MULLION DESIGN LOAD CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 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 SMALL MISSILE IMPACT.
F.B.C. APPROVED IMPACT RESISTANT SHUTTERS
REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE.
SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

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.



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

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

revisions:	no	date	by	description
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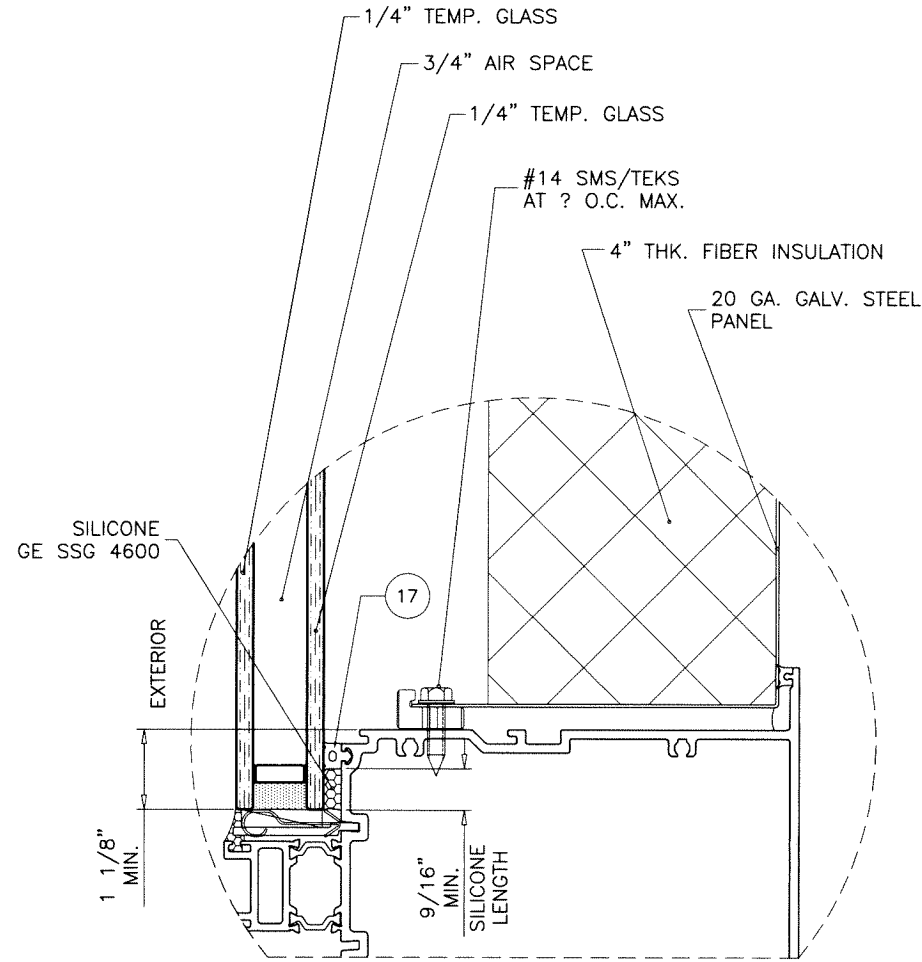
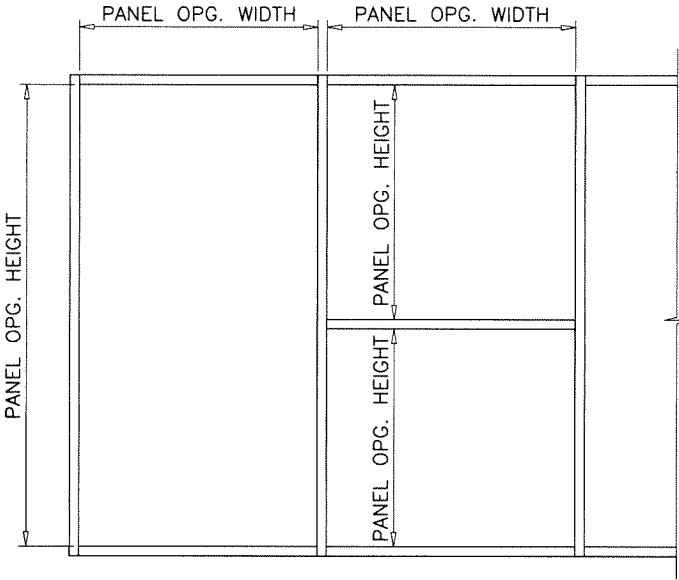
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chk. by:	

drawing no.
22-38F
sheet 1 of 10

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MIAMI, FLORIDA 33173
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FBPE #3538
STORE 22-38F-NHF

PANEL BOX DESIGN LOAD CAPACITY - PSF					
NOMINAL DIMS.		PANEL BOX		SILICONE	
PANEL OPG. WIDTH	PANEL OPG. HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
39-1/2"	26-3/4"	95.0	95.0	91.9	91.9
45-1/2"		95.0	95.0		
51-1/2"		95.0	95.0		
57-1/2"		95.0	95.0		
63-1/2"		95.0	95.0		
39-1/2"	31-3/4"	95.0	95.0	80.5	80.5
45-1/2"		95.0	95.0		
51-1/2"		95.0	95.0		
55-3/4"		95.0	95.0		

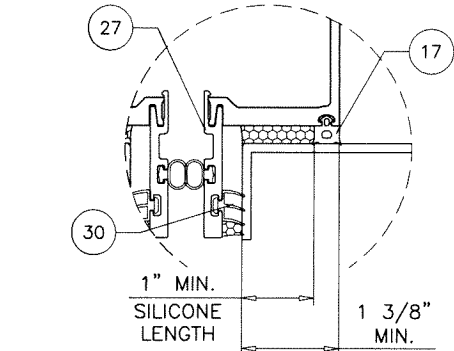
LOWER DESIGN LOADS FROM PANEL BOX CAPACITY CHART OR SILICONE CAPACITY CHART SHALL CONTROL.



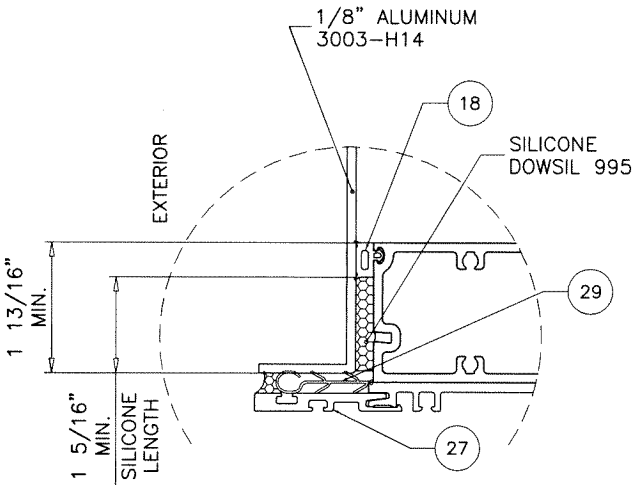
SECURED PANEL BOX HEAD/SILL/JAMB/MULLION
SEE CHART ABOVE FOR METAL PANEL BOX CAPACITY

PANELS OPTIONAL TO GLASS

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



GLAZED METAL PANEL JAMB/MULLION



GLAZED METAL PANEL HEAD/SILL
LIMIT MAX. PANEL AREA TO 7.5 SQ. FT.

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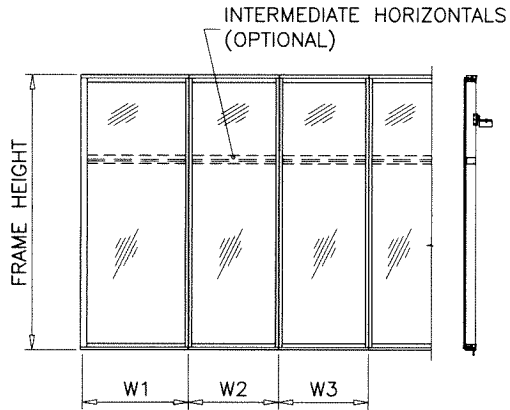
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drawing no.	22-38F				
sheet	3 of 10				

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

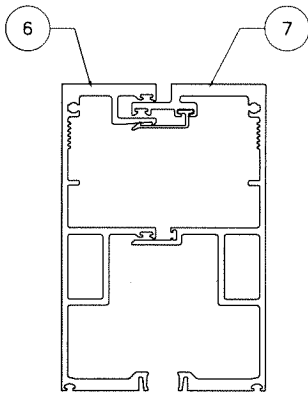
NOMINAL DIMS.		JAMB 'J1' MULLION 'M1'	
WIDTH (W)	SPAN LENGTH	EXT.(+)	INT.(-)
48"	120"	95.0	95.0
54"		95.0	95.0
60"		95.0	95.0
66"		95.0	95.0
72"		95.0	95.0
48"	126"	95.0	95.0
54"		95.0	95.0
60"		95.0	95.0
66"		95.0	95.0
48"	132"	95.0	95.0
54"		95.0	95.0
60"		95.0	95.0
66"		87.8	87.8
48"	138"	95.0	95.0
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

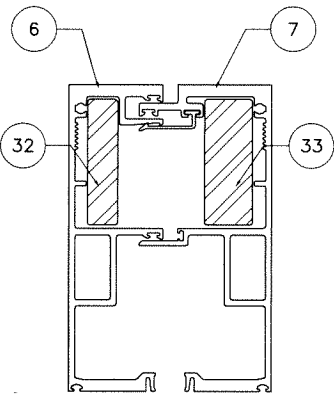
WIDTH (W) = $\frac{W2 + W3}{2}$
AT MULLION

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 Ix ALUM + Ix STL X 2.9	33.414	

MULLION

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FL #41723

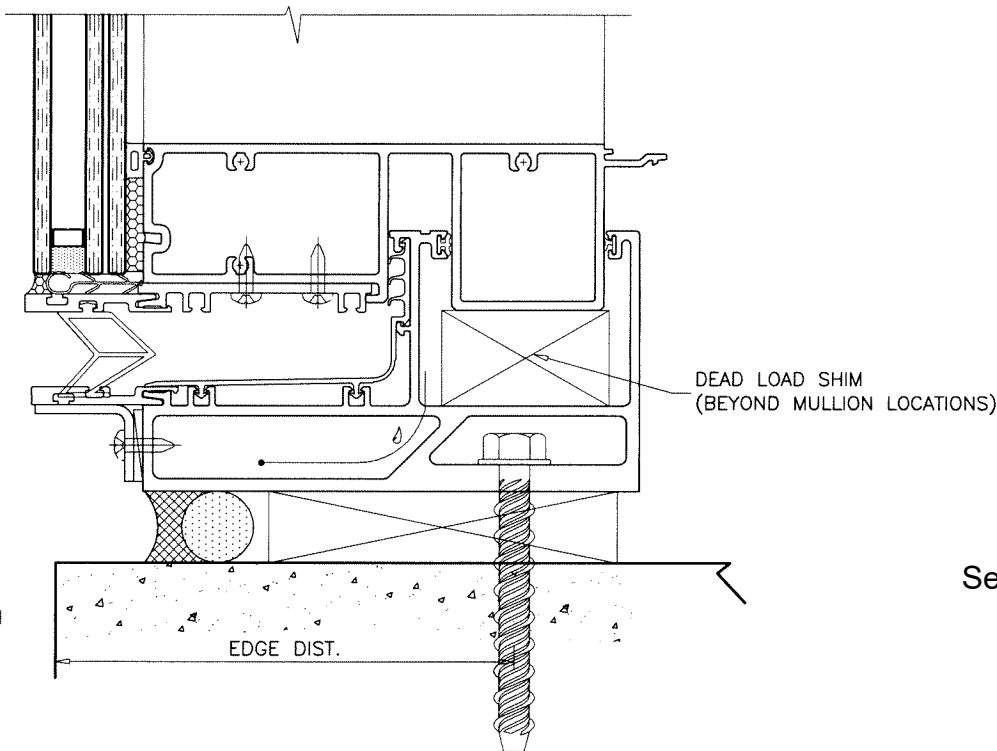
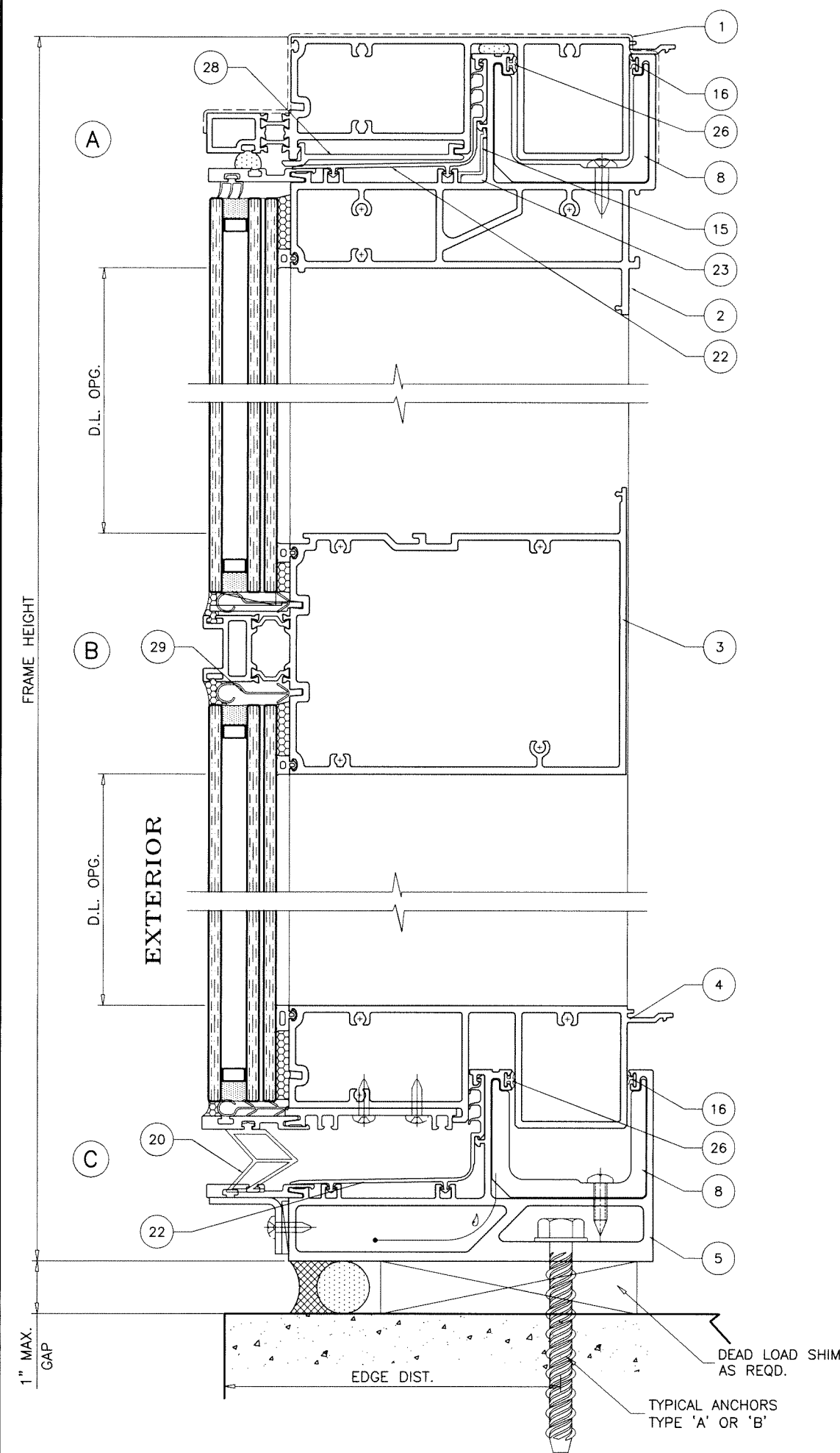


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FDPPE #3538

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

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

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								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

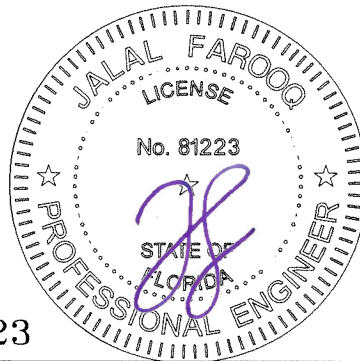
ANCHOR TYPE 'B' - 1/2" DIA. MACHINE SCREWS (GRADE 5 CRS)

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.

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FL #41723

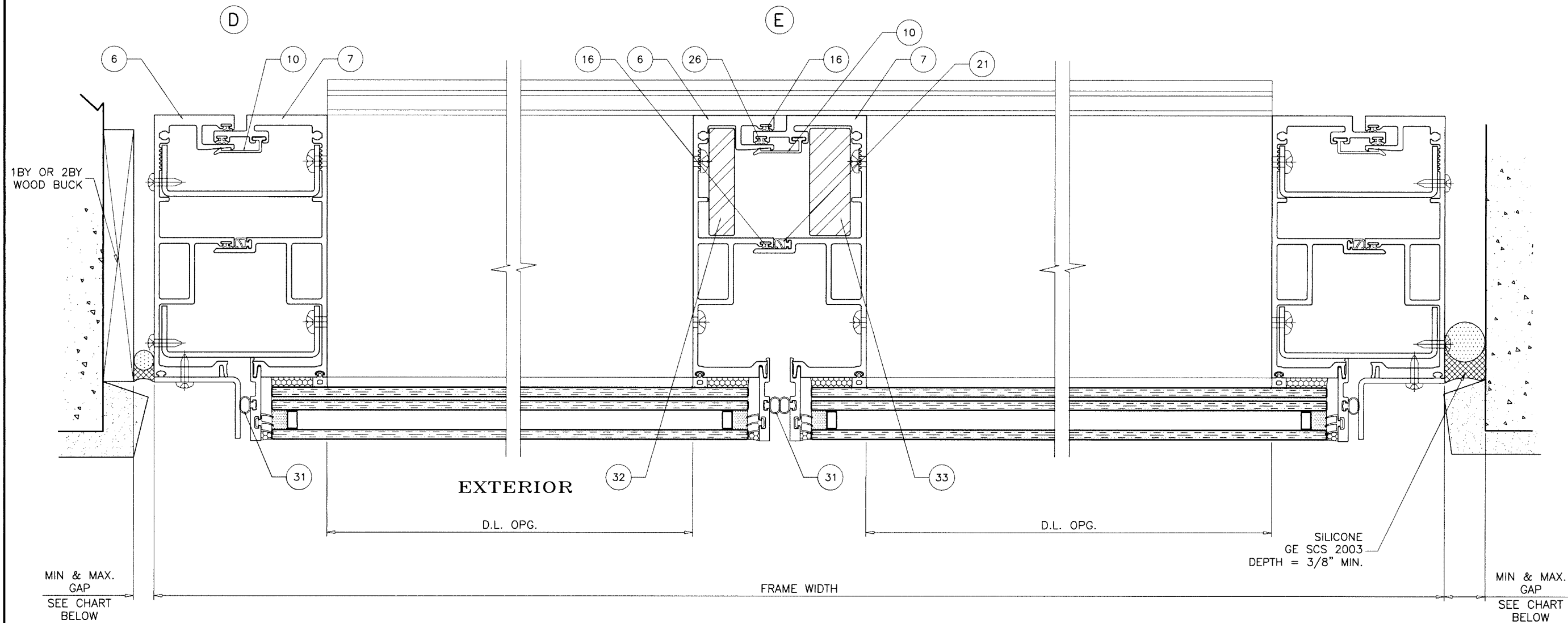


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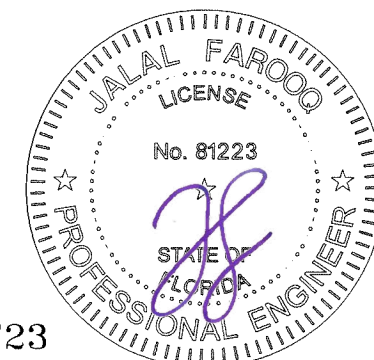
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MAX. SPAN LENGTH	GAP	
	MIN.	MAX.
96"	1/2"	1"
108"	9/16"	1"
120"	5/8"	1"
132"	11/16"	1"
149"	3/4"	1"

NOTE:
 MAX. MOVEMENT CONSIDERED=50% 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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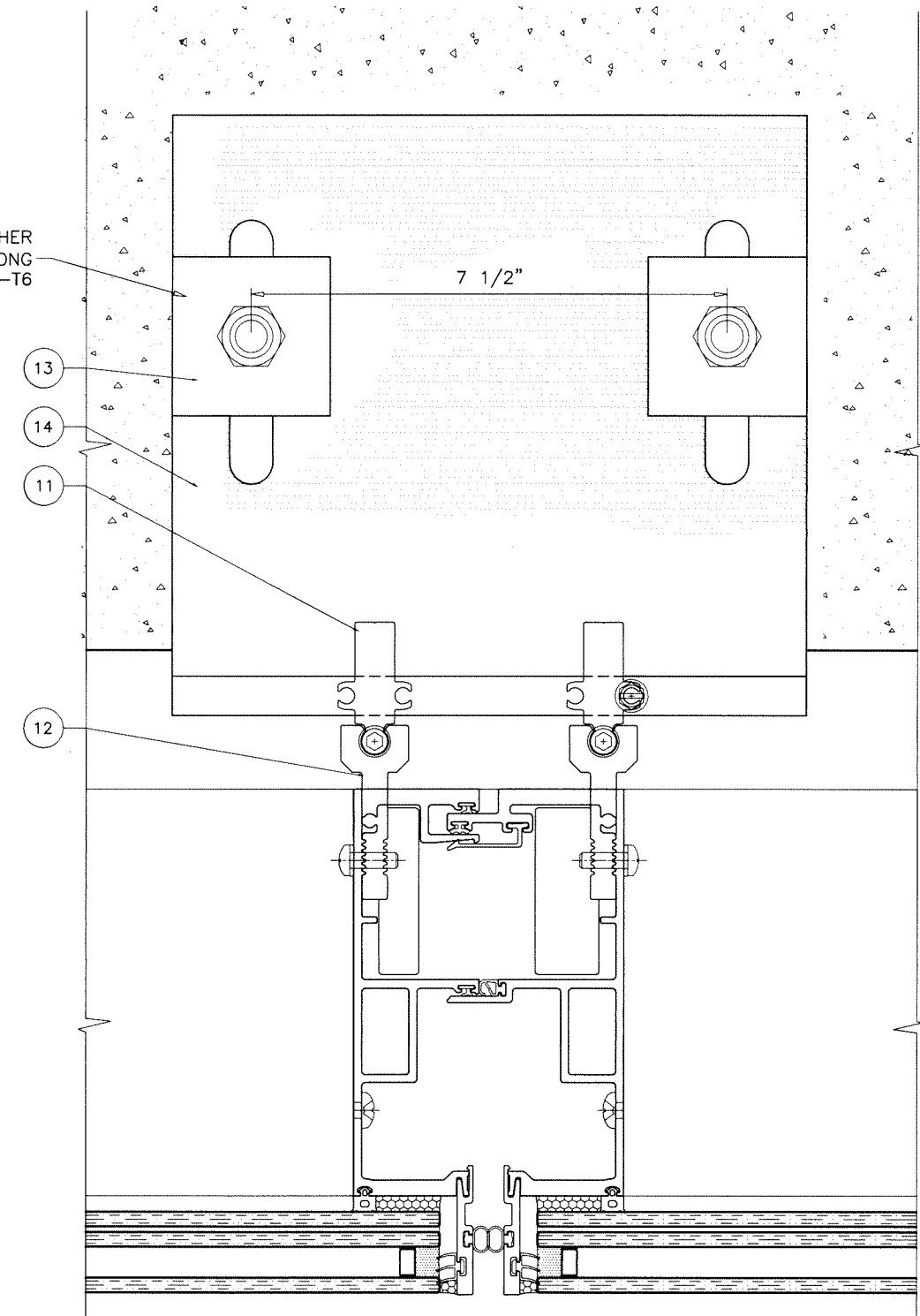


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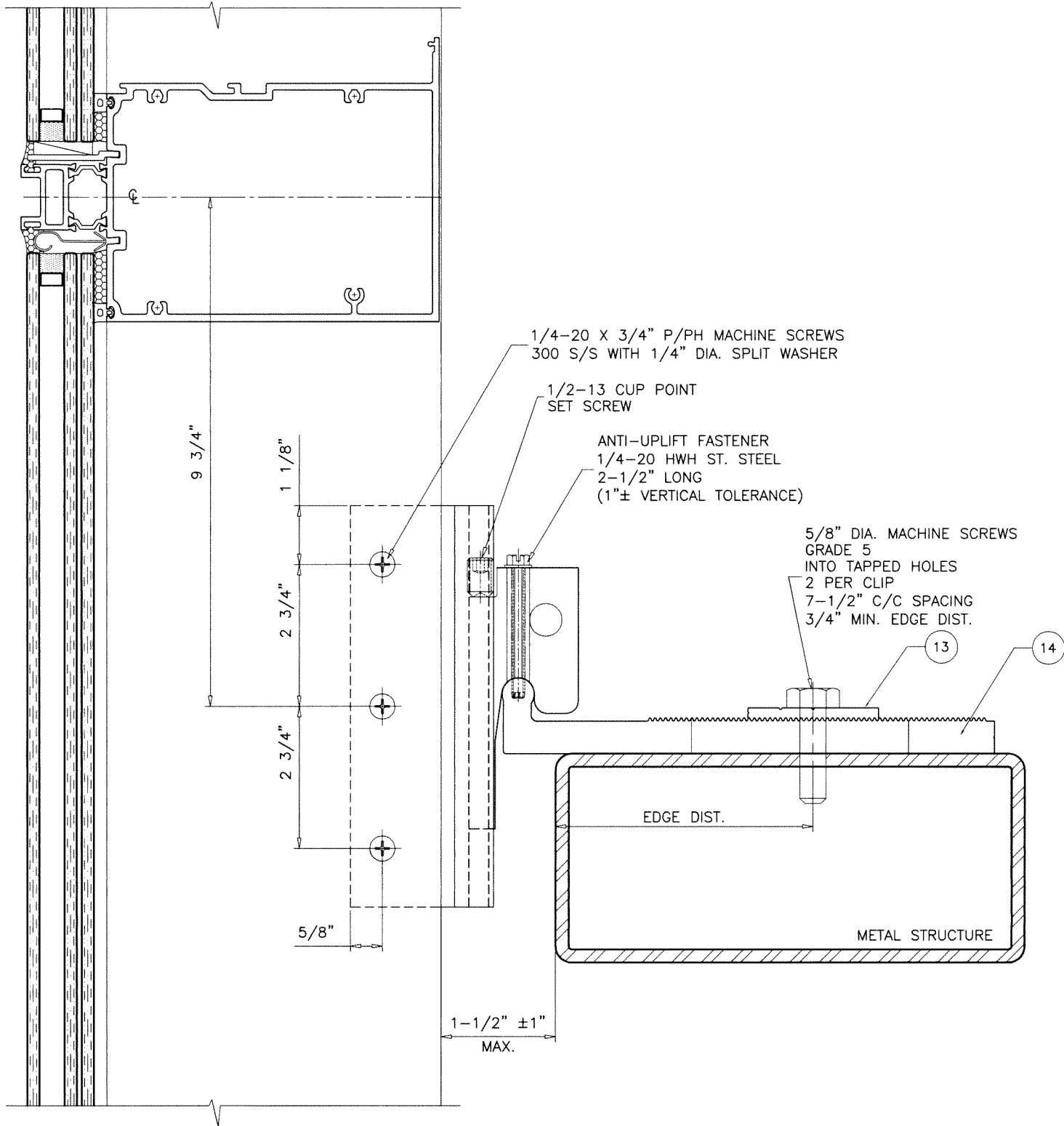
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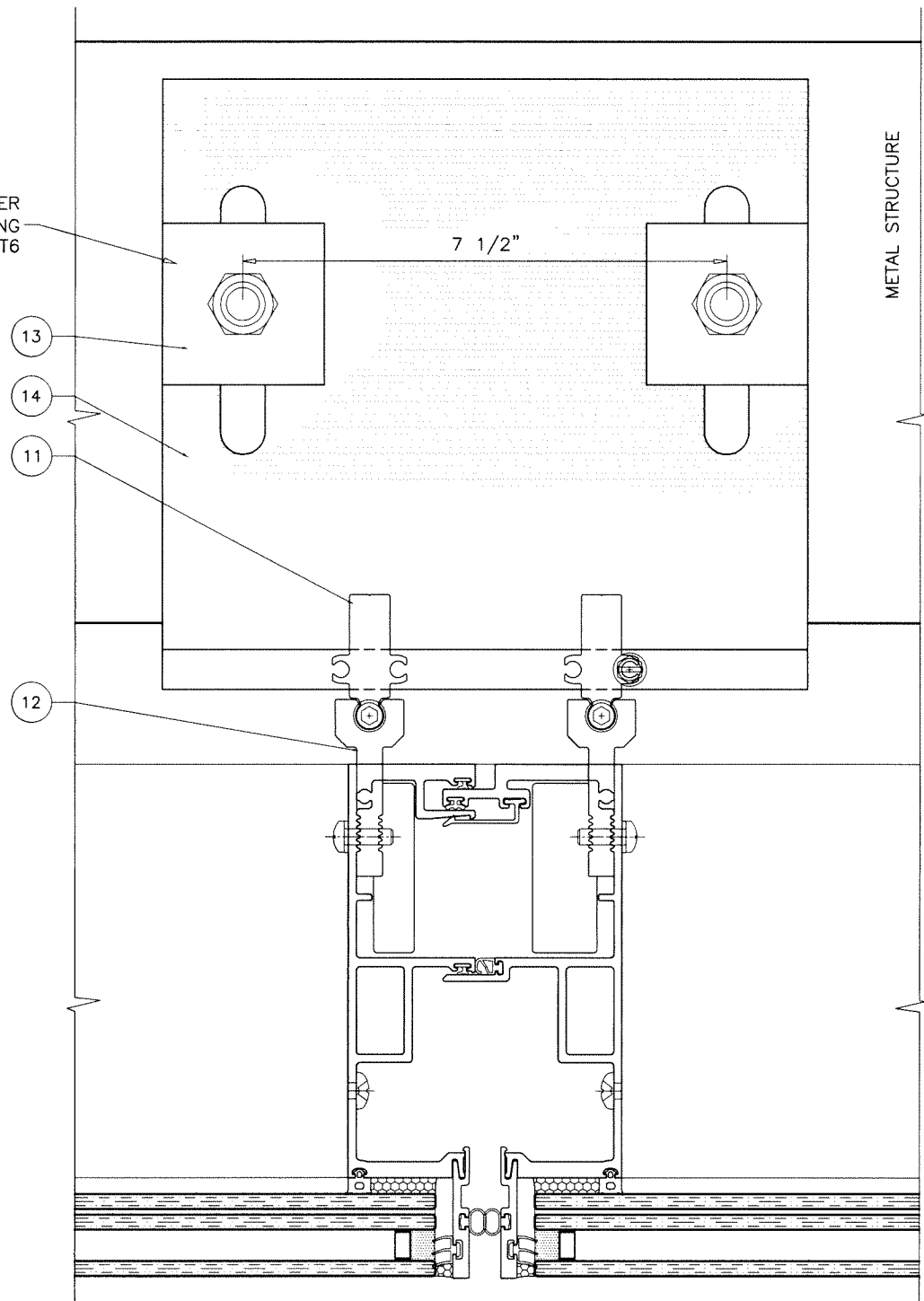
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sheet 6 of 10			



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drawing no. 22-38F			
sheet 7 of 10			



SERRATED WASHER
2-1/2" LONG
6061-T6

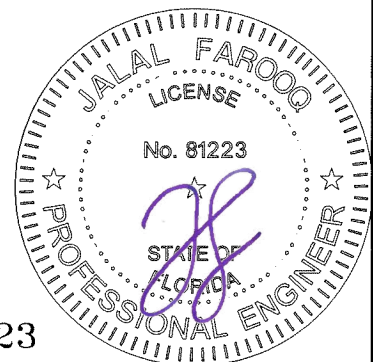


INTERMEDIATE ANCHORS

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

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FL #41723



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

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22-38F		22-38F		22-38F	
sheet 8 of 10		sheet 8 of 10		sheet 8 of 10	

STORE 22-38F-NHF

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.



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22-38F
sheet 9 of 10

1 FRAME HEAD

2 HEAD TRANSOM

3 INTERMEDIATE HORIZONTAL

4 SILL TRANSOM

6 FEMALE MULLION

7 MALE MULLION

8 SHEAR SPLICE

32 MULLION REINF.

33 MULLION REINF.

5 STARTER SILL

9 SETTING CHAIR

10 ANTI-BUCKLING CLIP

15 GUTTER SPRING CLIP

11 ANCHOR HOOK

12 ANCHOR SLIDE

13 ANCHOR WASHER

14 ANCHOR BASE PLATE

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sheet 10 of 10

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