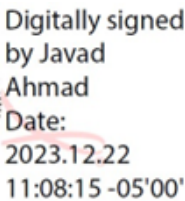


FL#19755



JAVAD AHMAD PE, inc

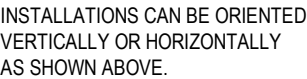
8800 NW 23rd St, Miami FL

33172

Ph: (305) 424-8001

support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS



SEE SHEET 105 FOR HORIZONTALLY
ORIENTED JAMB AND MULLION
CAPACITIES

TYPICAL ELEVATION

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8 TH 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 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)

STEP 1
DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.

STEP 2
SEE CHARTS ON SHEET 102 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.

STEP 3
CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS 104 AND 105 THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 4
THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.
THIS VALUE SHOULD MEET OR EXCEED THE DESIGN WIND LOAD REQUIREMENT OBTAINED IN STEP 1 ABOVE.

- 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.
- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- 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.
- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

101

101 OF 111

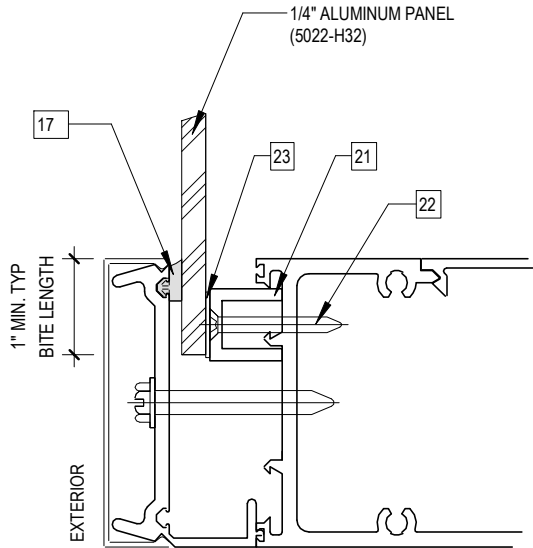
MULLION LOADING CHARTS WITH OR WITHOUT INTERMEDIATE HORIZONTALS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE BASED ON ASTM E1300-16 (3 SEC. GUSTS)

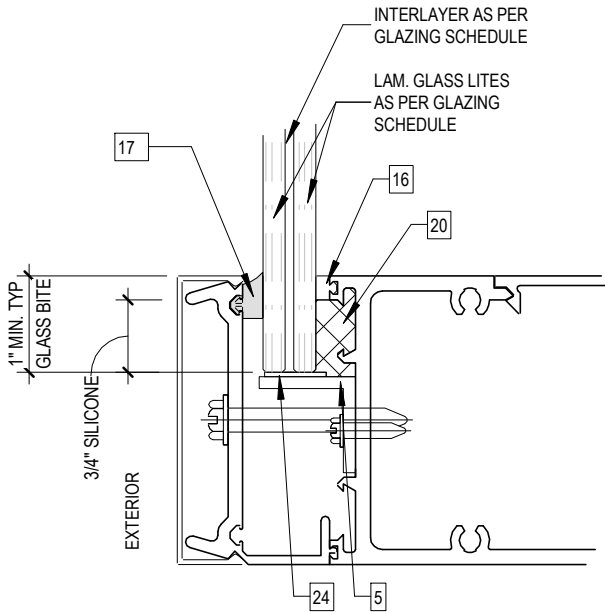
FL#19755

GLASS LOAD CAPACITY - PSF									
NOMINAL DIMS.		GLASS TYPES							
		'C'		'D'		'E'		'F'	
D.L.O. WIDTH (IN)	D.L.O. HEIGHT (IN)	EXT (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	60	105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		93.8	93.8	93.8	93.8	78.0	83.0	105.0	105.0
45		88.0	88.0	88.0	88.0	78.0	83.0	105.0	105.0
48		82.8	82.8	82.8	82.8	78.0	82.8	105.0	105.0
51		78.2	78.2	78.2	78.2	78.0	78.2	105.0	105.0
54		74.1	74.1	74.1	74.1	74.1	74.1	105.0	105.0
57		70.4	70.4	70.4	70.4	70.4	70.4	104.6	104.6
60		67.0	67.0	67.0	67.0	67.0	67.0	99.7	99.7
63		64.0	64.0	64.0	64.0	64.0	67.0	99.7	99.7
66	66	61.2	61.2	61.2	61.2	61.2	67.0	99.7	99.7
69		58.6	58.6	58.6	58.6	58.6	67.0	99.7	99.7
36		105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		93.8	93.8	93.8	93.8	78.0	83.0	105.0	105.0
45		88.0	88.0	88.0	88.0	78.0	83.0	105.0	105.0
48		82.8	82.8	82.8	82.8	78.0	82.8	105.0	105.0
51		78.2	78.2	78.2	78.2	78.0	78.2	105.0	105.0
54		74.1	74.1	74.1	74.1	74.1	74.1	105.0	105.0
57		70.4	70.4	70.4	70.4	70.4	70.4	104.6	104.6
60	72	67.0	67.0	67.0	67.0	67.0	67.0	99.7	99.7
63		64.0	64.0	64.0	64.0	64.0	64.0	95.1	95.1
66		61.2	61.2	61.2	61.2	61.2	61.2	91.0	91.0
69		-	-	58.6	58.6	58.6	61.2	87.2	87.2
36		105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		93.8	93.8	93.8	93.8	78.0	83.0	105.0	105.0
45		88.0	88.0	88.0	88.0	78.0	83.0	105.0	105.0
48		82.8	82.8	82.8	82.8	78.0	82.8	105.0	105.0
51		78.2	78.2	78.2	78.2	78.0	78.2	105.0	105.0
54	78	74.1	74.1	74.1	74.1	74.1	74.1	105.0	105.0
57		70.4	70.4	70.4	70.4	70.4	70.4	104.6	104.6
60		67.0	67.0	67.0	67.0	67.0	67.0	99.7	99.7
63		-	-	64.0	64.0	64.0	64.0	95.1	95.1
66		-	-	61.2	51.2	61.2	61.2	91.0	91.0
69		-	-	58.6	58.6	58.6	58.6	58.6	58.6
36		105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		93.8	93.8	93.8	93.8	78.0	83.0	105.0	105.0
45		88.0	88.0	88.0	88.0	78.0	83.0	105.0	105.0
48	78	82.8	82.8	82.8	82.8	78.0	82.8	105.0	105.0
51		78.2	78.2	78.2	78.2	78.0	78.2	105.0	105.0
54		74.1	74.1	74.1	74.1	74.1	74.1	105.0	105.0
57		70.4	70.4	70.4	70.4	70.4	70.4	104.6	104.6
60		-	-	67.0	67.0	67.0	67.0	99.7	99.7
63		-	-	64.0	64.0	64.0	64.0	64.0	64.0
66		-	-	61.2	61.2	61.2	61.2	61.2	61.2
69		-	-	58.6	58.6	58.6	58.6	58.6	58.6
36	84	105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		93.8	93.8	93.8	93.8	78.0	83.0	105.0	105.0
45		88.0	88.0	88.0	88.0	78.0	83.0	105.0	105.0
48		82.8	82.8	82.8	82.8	78.0	82.8	105.0	105.0
51		78.2	78.2	78.2	78.2	78.0	78.2	105.0	105.0
54		-	-	74.1	74.1	74.1	74.1	105.0	105.0
57		-	-	70.4	70.4	70.4	70.4	70.4	70.4
60		-	-	67.0	67.0	67.0	67.0	67.0	67.0
63		-	-	64.0	64.0	64.0	64.0	64.0	64.0
66	90	-	-	61.2	61.2	61.2	61.2	61.2	61.2
69		-	-	58.6	58.6	58.6	58.6	58.6	58.6
36		105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		93.8	93.8	93.8	93.8	78.0	83.0	105.0	105.0
45		88.0	88.0	88.0	88.0	78.0	83.0	105.0	105.0
48		82.8	82.8	82.8	82.8	78.0	82.8	105.0	105.0
51		-	-	78.2	78.2	78.0	78.2	105.0	105.0
54		-	-	74.1	74.1	74.1	74.1	74.1	74.1
57		-	-	70.4	70.4	70.4	70.4	70.4	70.4
60	96	-	-	67.0	67.0	67.0	67.0	67.0	67.0
63		-	-	64.0	64.0	64.0	64.0	64.0	64.0
66		-	-	61.2	61.2	61.2	61.2	61.2	61.2
36		105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		93.8	93.8	93.8	93.8	78.0	83.0	105.0	105.0
45		88.0	88.0	88.0	88.0	78.0	83.0	105.0	105.0
48		-	-	82.8	82.8	78.0	82.8	105.0	105.0
51		-	-	78.2	78.2	78.0	78.2	78.0	78.2
54		-	-	74.1	74.1	74.1	74.1	74.1	74.1
57	102	-	-	70.4	70.4	70.4	70.4	70.4	70.4
60		-	-	67.0	67.0	67.0	67.0	67.0	67.0
63		-	-	64.0	64.0	64.0	64.0	64.0	64.0
66		105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
69		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
36		93.8	93.8	93.8	93.8	78.0	83.0	105.0	105.0
39		88.0	88.0	88.0	88.0	78.0	83.0	105.0	105.0
42		-	-	82.8	82.8	78.0	82.8	78.0	82.8
45		-	-	78.2	78.2	78.0	78.2	78.0	78.2
48		-	-	74.1	74.1	74.1	74.1	74.1	74.1
51	108	-	-	70.4	70.4	70.4	70.4	70.4	70.4
54		105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
57		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
60		-	-	93.8	93.8	78.0	83.0	105.0	105.0
63		-	-	88.0	88.0	78.0	83.0	78.0	83.0
66		-	-	82.8	82.8	78.0	82.8	78.0	82.8
69		-	-	78.2	78.2	78.0	78.2	78.0	78.2
36		105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		-	-	74.1	74.1	74.1	74.1	74.1	74.1

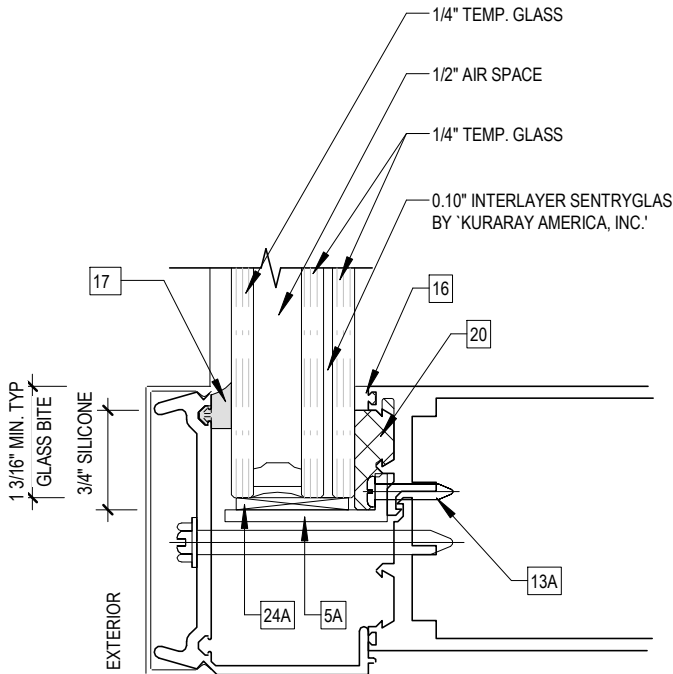
GLASS LOAD CAPACITY - PSF									
NOMINAL DIMS.		GLASS TYPES							
		'C'		'D'		'E'		'F'	
D.L.O. WIDTH (IN)	D.L.O. HEIGHT(I N)	EXT (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
36	84	105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		93.8	93.8	93.8	93.8	78.0	83.0	105.0	105.0
45		88.0	88.0	88.0	88.0	78.0	83.0	105.0	105.0
48		82.8	82.8	82.8	82.8	78.0	82.8	105.0	105.0
51		78.2	78.2	78.2	78.2	78.0	78.2	105.0	105.0
54		-	-	74.1	74.1	74.1	74.1	105.0	105.0
57		-	-	70.4	70.4	70.4	70.4	70.4	70.4
60		-	-	67.0	67.0	67.0	67.0	67.0	67.0
63		-	-	64.0	64.0	64.0	64.0	64.0	64.0
66	90	-	-	61.2	61.2	61.2	61.2	61.2	61.2
69		-	-	58.6	58.6	58.6	58.6	58.6	58.6
36		105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		93.8	93.8	93.8	93.8	78.0	83.0	105.0	105.0
45		88.0	88.0	88.0	88.0	78.0	83.0	105.0	105.0
48		82.8	82.8	82.8	82.8	78.0	82.8	105.0	105.0
51		-	-	78.2	78.2	78.0	78.2	105.0	105.0
54		-	-	74.1	74.1	74.1	74.1	74.1	74.1
57		-	-	70.4	70.4	70.4	70.4	70.4	70.4
60	96	-	-	67.0	67.0	67.0	67.0	67.0	67.0
63		-	-	64.0	64.0	64.0	64.0	64.0	64.0
66		-	-	61.2	61.2	61.2	61.2	61.2	61.2
36		105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		93.8	93.8	93.8	93.8	78.0	83.0	105.0	105.0
45		88.0	88.0	88.0	88.0	78.0	83.0	105.0	105.0
48		-	-	82.8	82.8	78.0	82.8	105.0	105.0
51		-	-	78.2	78.2	78.0	78.2	78.0	78.2
54		-	-	74.1	74.1	74.1	74.1	74.1	74.1
57	96	-	-	70.4	70.4	70.4	70.4	70.4	70.4
60		-	-	67.0	67.0	67.0	67.0	67.0	67.0
63		-	-	64.0	64.0	64.0	64.0	64.0	64.0
36		105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		93.8	93.8	93.8	93.8	78.0	83.0	105.0	105.0
45		-	-	88.0	88.0	78.0	83.0	105.0	105.0
48		-	-	82.8	82.8	78.0	82.8	78.0	82.8
51		-	-	78.2	78.2	78.0	78.2	78.0	78.2
54		-	-	74.1	74.1	74.1	74.1	74.1	74.1
57	102	-	-	70.4	70.4	70.4	70.4	70.4	70.4
36		105.0	105.0	105.0	105.0	78.0	83.0	105.0	105.0
39		100.5	100.5	100.5	100.5	78.0	83.0	105.0	105.0
42		-	-	93.8	93.8	78.0	83.0	105.0	105.0
45		-	-	88.0	88.0	78.0	83.0	78.0	83.0
48		-	-	82.8	82.8	78.0	82.8	78.0	82.8
51		-	-	78.2	78.2	78.0	78.2	78.0	78.2
54		-	-	74.1	74.1	74.1	74.1	74.1	74.1
57		-	-	70.4	70.4	70.4	70.4	70.4	70.4
36		108	105.0	105.0	105.0	105.0	78.0	83.0	105.0
39	100.5		100.5	100.5	100.5	78.0	83.0	105.0	105.0
42	-		-	93.8	93.8	78.0	83.0	105.0	105.0
45	-		-	88.0	88.0	78.0	83.0	78.0	83.0
48	-		-	82.8	82.8	78.0	82.8	78.0	82.8
51	-		-	78.2	78.2	78.0	78.2	78.0	78.2
54	-		-	74.1	74.1	74.1	74.1	74.1	74.1



ALUMINUM PANEL OPTION
MAX. PANEL AREA=15.9 SQ. FT.



GLAZING DETAIL FOR GLASS TYPE C, D, E



GLAZING DETAIL FOR GLASS TYPE F

GLAZING SCHEDULE		
GLASS TYPE	LAMINATED GLASS LITE	INTERLAYER
C	1/4" HEAT STREN'D GLASS	0.090" INTERLAYER SENTRYGLAS BY 'KURARAY AMERICA INC.'
D	1/4" HEAT STREN'D GLASS	0.075" INTERLAYER SAFLEX CP WITH PET CORE BY 'EASTMAN CHEMICAL CO.'
E	1/4" HEAT TEMP. GLASS	0.10" INTERLAYER SAFLEX HP CLEAR OR COLOR GLASS BY 'EASTMAN CHEMICAL CO.'



Digitally signed
by Javad
Ahmad
Date:
2023.12.22
11:08:15 -05'00'



JAVAD AHMAD PE, inc

8800 NW 23rd St, Miami FL 33172
Ph: (305) 424-8001
support@ja-pe.com

CONSULTING • STRUCTURAL DESIGN • FACADES • BUILDING ENVELOPE • SYSTEM DESIGN • PRODUCT APPROVALS

OGT-1000 ALUMINUM WINDOW
WALL SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)

OGT WINDOW PRODUCTS, LLC.
6910 NW 42ND STREET,
DORAL, FL 33166
TEL. (305) 594-3999
FAX. (305) 392-9555

drawing no.	JA-1692-23	drawn by:	AG	check by:	BS	REVISION			
	date:	10-31-2023							
			DATE		BY		DESCRIPTION		
			No.						

Eng: JAVAD AHMAD
CIVIL
FLA PE #70592
C.A.N. 34254

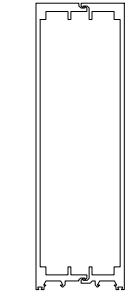
VERTICAL MULLION LOADING CHARTS WITH OR WITHOUT INTERMEDIATE HORIZONTALS

FL#19755

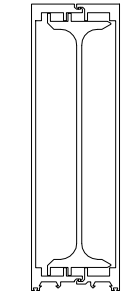
MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.(IN)		JAMB 'J1'	MULL 'M2'	JAMB 'J2/J3'
		MULL 'M1'		MULL 'M3'
WIDTH(W)	FRAME HEIGHT	(+/-)	(+/-)	(+/-)
36	96	105	105	105
39		105	105	105
42		105	105	105
45		105	105	105
48		105	105	105
51		105	105	105
54		105	105	105
57		105	105	105
60		105	105	105
63		105	105	105
66		105	105	105
69		105	105	105
72		105	105	105
75		105	-	-
78		105	-	-
81		105	-	-
84		105	-	-
88		105	-	-
36	102	105	105	105
39		105	105	105
42		105	105	105
45		105	105	105
48		105	105	105
51		105	105	105
54		105	105	105
57		105	105	105
60		105	105	105
63		105	105	105
66		105	105	105
69		105	105	105
72		105	105	105
75		105	-	-
78		105	-	-
81		105	-	-
84		105	-	-
88		105	-	-
36	108	105	105	105
39		105	105	105
42		105	105	105
45		105	105	105
48		105	105	105
51		105	105	105
54		105	105	105
57		105	105	105
60		105	105	105
63		105	105	105
66		105	105	105
69		105	105	105
72		105	105	105
75		105	-	-
78		105	-	-
81		105	-	-
84		105	-	-
88		105	-	-

MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.(IN)		JAMB 'J1'	MULL 'M2'	JAMB 'J2/J3'
		MULL 'M1'		MULL 'M3'
WIDTH (W)	FRAME HEIGHT	(+/-)	(+/-)	(+/-)
36	114	105	105	105
39		105	105	105
42		105	105	105
45		105	105	105
48		105	105	105
51		105	105	105
54		105	105	105
57		105	105	105
60		105	105	105
63		105	105	105
66		105	105	105
69		105	105	105
72		105	105	105
75		105	-	-
78		105	-	-
81		105	-	-
84		105	-	-
88		105	-	-
36	120	105	105	105
39		105	105	105
42		105	105	105
45		105	105	105
48		105	105	105
51		105	105	105
54		105	105	105
57		105	105	105
60		105	105	105
63		105	105	105
66		105	105	105
69		105	105	105
72		105	105	105
75		105	-	-
78		105	-	-
81		105	-	-
84		105	-	-
88		105	-	-
36	126	105	105	105
39		105	105	105
42		105	105	105
45		105	105	105
48		105	105	105
51		105	105	105
54		105	105	105
57		105	105	105
60		105	105	105
63		105	105	105
66		-	105	105
69		-	105	105
72		-	105	105
36	132	105	105	105
39		105	105	105
42		105	105	105
45		105	105	105
48		105	105	105
51		105	105	105
54		105	105	105
57		105	105	105
60		105	105	105
63		-	105	105
66		-	105	105
69		-	105	105

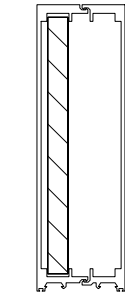
MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.(IN)		JAMB 'J1'	MULL 'M2'	JAMB 'J2/J3'
		MULL 'M1'		MULL 'M3'
WIDTH (W)	FRAME HEIGHT	(+/-)	(+/-)	(+/-)
36	138	105	105	105
39		105	105	105
42		105	105	105
45		105	105	105
48		105	105	105
51		105	105	105
54		105	105	105
57		105	105	105
60		-	105	105
63		-	105	105
66		-	105	105
36	144	105	105	105
39		105	105	105
42		105	105	105
45		105	105	105
48		105	105	105
51		105	105	105
54		105	105	105
57		-	105	105
60		-	105	105
63		-	105	105
36	150	-	105	105
39		-	105	105
42		-	105	105
45		-	105	105
48		-	105	105
51		-	105	105
54		-	105	105
57		-	105	105
60		-	105	105
63		-	105	105
36	156	-	105	105
39		-	105	105
42		-	105	105
45		-	105	105
48		-	105	105
51		-	105	105
54		-	105	105
57		-	105	105
60		-	105	105
63		-	105	105
36	162	-	105	105
39		-	105	105
42		-	105	105
45		-	105	105
48		-	105	105
51		-	105	105
54		-	105	105
57		-	105	105
60		-	105	105
63		-	105	105
36	168	-	105	105
39		-	105	105
42		-	105	105
45		-	105	105
48		-	105	105
51		-	105	105
54		-	105	105



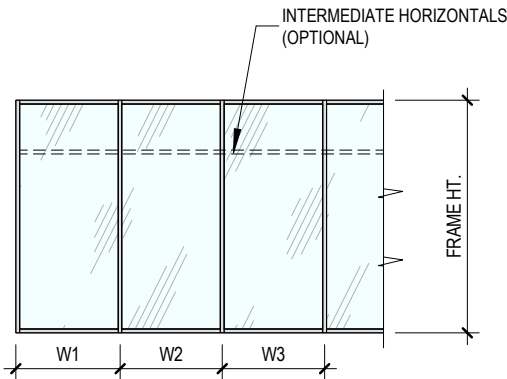
JAMB 'J1' MULLION 'M1' NO REINF.			
Ix	IN ⁴	Sx	IN ³
40.8745		8.8446	



JAMB 'J2' MULLION 'M2' ALUM REINF.			
Ix	IN ⁴	Sx	IN ³
62.0274		13.4218	



JAMB 'J3'				
MULLION 'M3'				
STEEL REINF.				
	Ix	IN ⁴	Sx	IN ³
ALUMINUM		40.8745		8.4446
STEEL		26.6667		6.6667
TOTAL		118.2078		
Ix ALUM. + ix STL. X 2.9				



WIDTH (W) = W1
AT FRAME JAMB

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

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OGT-1000 ALUMINUM WINDOW
WALL SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)

OGT WINDOW PRODUCTS, LLC.
6910 NW 42ND STREET,
DORAL, FL 33166
TEL. (305) 594-3999
FAX. (305) 392-9555

drawing no.	JA-1692-23	AG	BS
date:	10-31-2023	drawn by:	check by:
REVISION			
No.	DATE	BY	DESCRIPTION

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CIVIL
FLA PE #70592
C.A.N. 34254

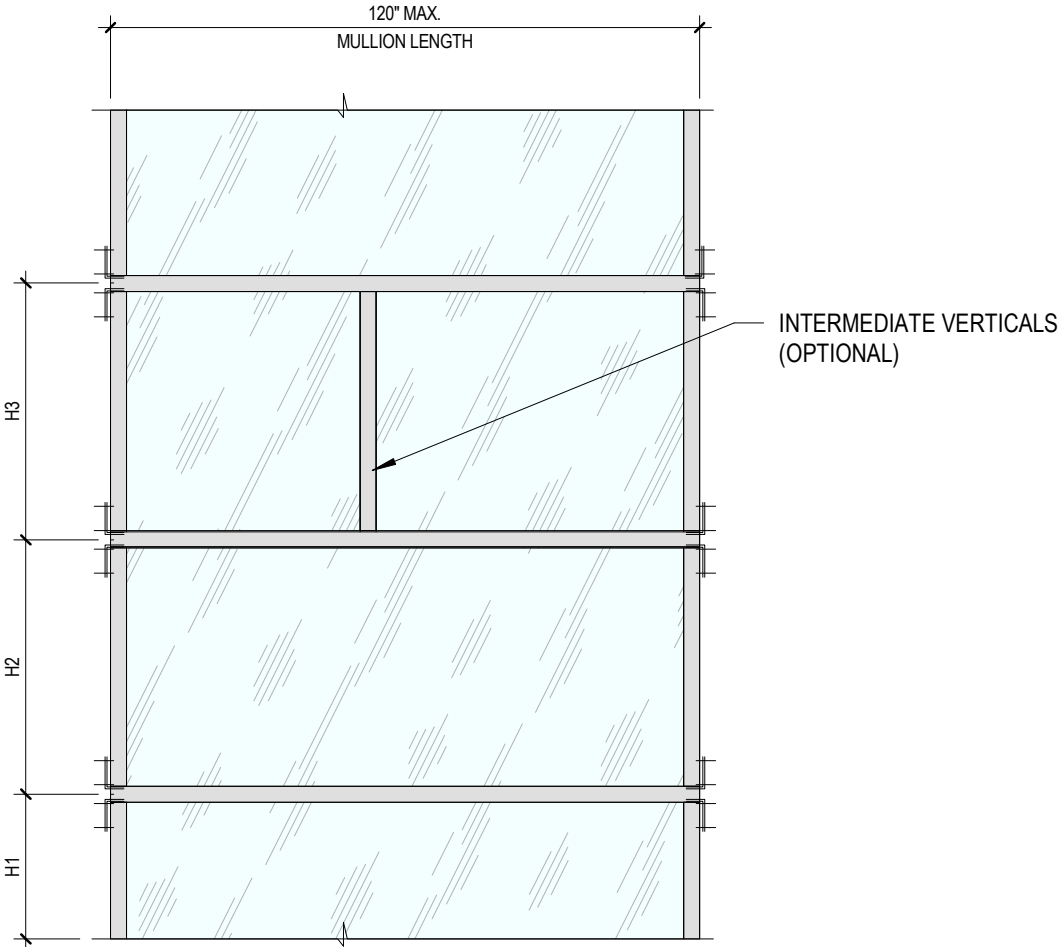


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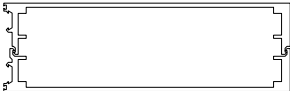
MULLION LOAD CAPACITY - PSF				
NOMINAL DIMS.(IN)		JAMB 'J1'	MULL 'M2'	JAMB 'J2/J3'
		MULL 'M1'		MULL 'M3'
HEIGHT(H)	MULLION LENGTH	(+/-)	(+/-)	(+/-)
36	96	105	105	105
39		105	105	105
42		105	105	105
45		105	105	105
48		105	105	105
51		105	105	105
54		105	105	105
57		105	105	105
60		105	105	105
63		36	105	105
66	102	-	105	105
69		-	105	105
72		-	105	105
36		105	105	105
39		105	105	105
42		105	105	105
45		105	105	105
48		105	105	105
51		105	105	105
54		29.8	105	105
57	108	-	105	105
60		-	105	105
63		-	105	105
66		-	105	105
69		-	105	105
72		-	105	105
36		105	105	105
39		105	105	105
42		105	105	105
45		105	105	105
48	114	-	105	105
51		-	105	105
54		-	105	105
57		-	105	105
60		-	105	105
63		-	105	105
36		105	105	105
39		105	105	105
42		-	105	105
45		-	105	105
48	120	-	105	105
51		-	105	105
54		-	105	105
57		-	105	105
60		-	105	105



HEIGHT (H) = H1
AT FRAME HEAD/SILL

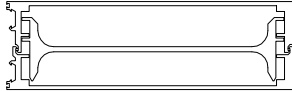
HEIGHT (H) = $\frac{H2+H3}{2}$
AT HORIZONTAL MULLION

HORIZONTALLY ORIENTED WINDOW WALL SYSTEM



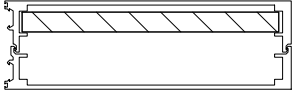
JAMB 'J1'
MULLION 'M1'
NO REINF.

Ix	IN ⁴	Sx	IN ³
40.8745		8.8446	



JAMB 'J2'
MULLION 'M2'
ALUM. REINF.

Ix	IN ⁴	Sx	IN ³
62.0274		13.4218	



JAMB 'J3'
MULLION 'M3'
STEEL REINF.

	Ix	IN ⁴	Sx	IN ³
ALUMINUM	40.8745		8.4446	
STEEL	26.6667		6.6667	
TOTAL Ix ALUM + Ix STL x 2.9	118.2078			



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OGT-1000 ALUMINUM WINDOW
WALL SYSTEM
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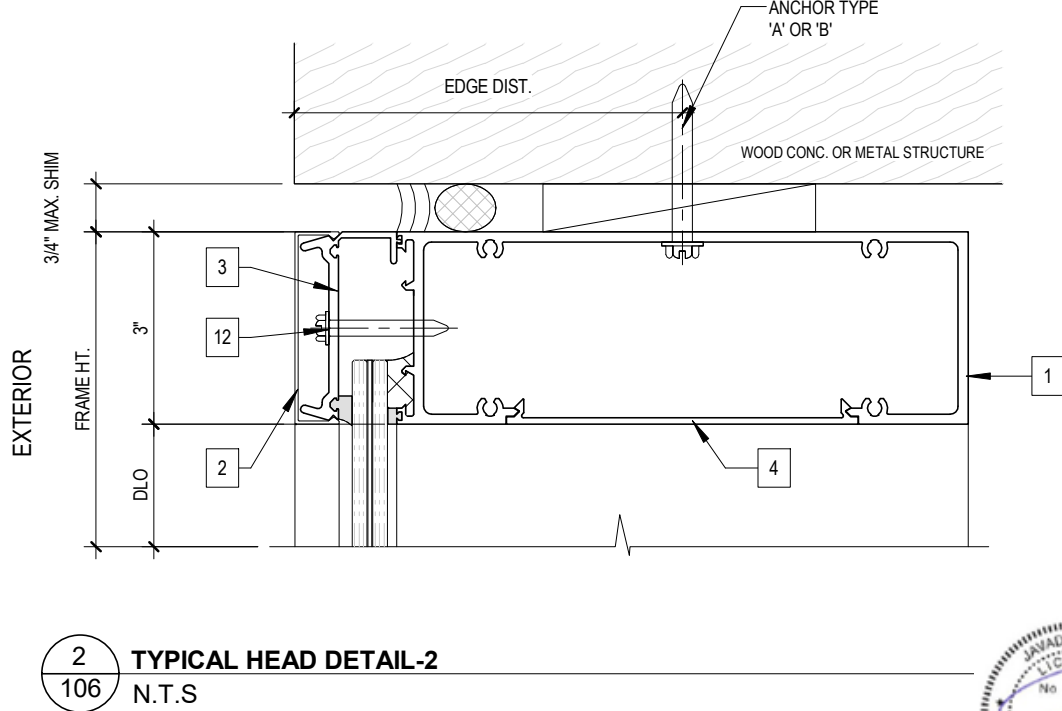
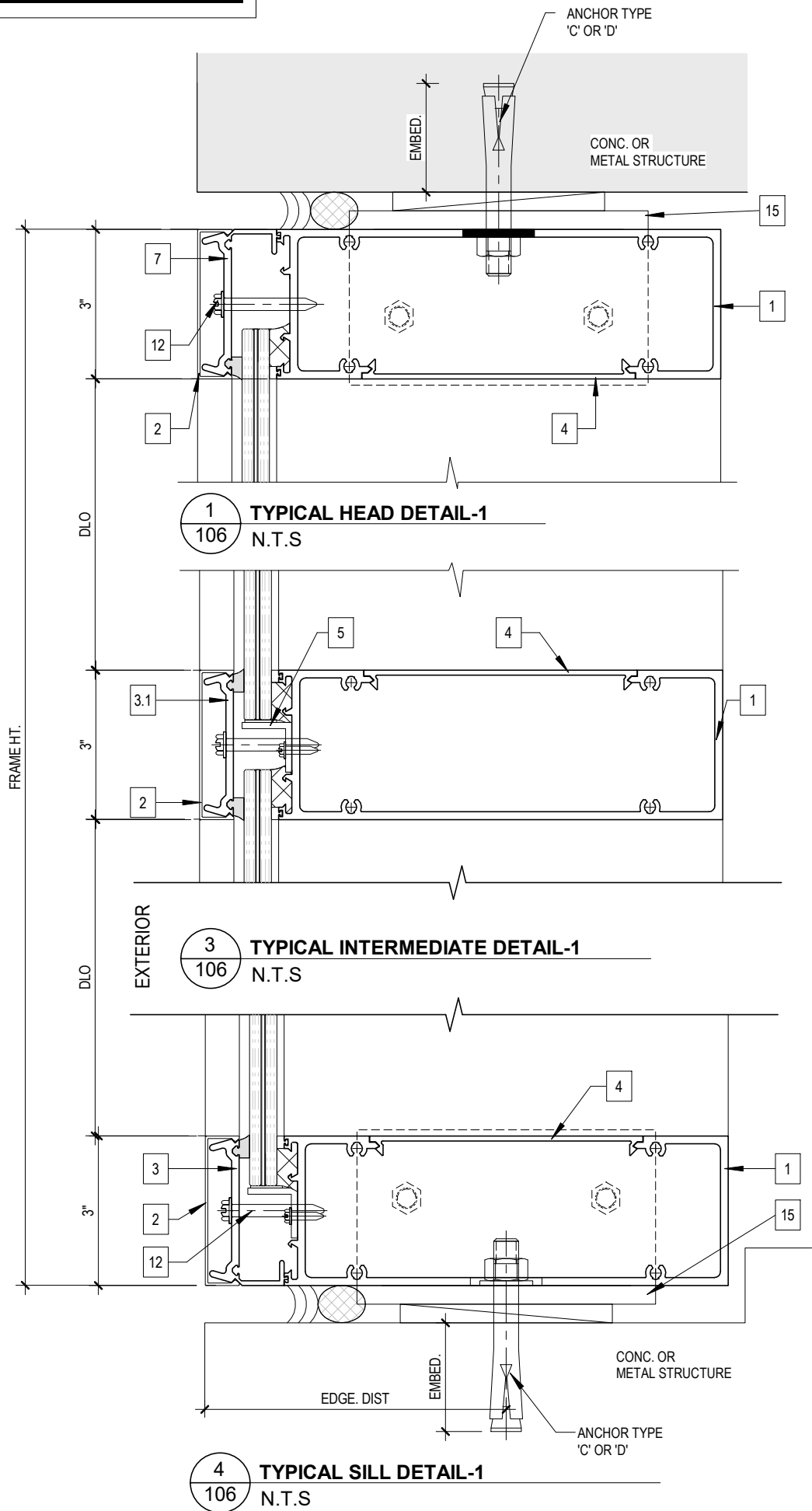
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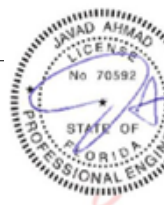
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								No.	DATE	BY	DESCRIPTION

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CIVIL
FLA PE #70592
C.A.N. 34254

SECTIONAL DETAILS



FL#19755



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ANCHORS DIRECTLY THROUGH FRAME:

AS SHOWN IN DETAIL 2/106, SEE ELEV. FOR SPACING
TYPE 'A'- 5/16" DIA. ULTRACON BY 'DEWALT'(Fu=177 KSI, Fy=155 KSI)

- INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-7/8" MIN. PENETRATION INTO WOOD (HEAD/SILL/JAMBS)

- THROUGH 1BY BUCKS INTO CONC. OR CMU BLOCKS
1-1/4" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
1-1/4" MIN. EMBED INTO CMU BLOCKS (JAMBS)

- DIRECTLY INTO CONCRETE OR CMU BLOCKS
2" MIN. EMBED INTO CONCRETE (HEAD/SILL/JAMBS)
2" MIN. EMBED INTO GFCMU BLOCKS (JAMBS)

TYPE 'B'- 5/16" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)

- INTO F.B.C. APPROVED MULLIONS
- INTO METAL STRUCTURES (HEAD/SILL/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) BY OTHERS

CRITICAL EDGE DISTANCE

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

ANCHORS THROUGH CLIP ANGLE:

AS SHOWN IN DETAIL 1/106 AND 4/106,
TYPE 'C'- 1/2" DIA. KWIK BOLT-3 EXPANSION ANCHOR

- DIRECTLY INTO CONCRETE:
(2) PER ANGLE
2-1/2" MIN. EMBED INTO CONC.
3-3/8" MIN. EDGE DISTANCE
3-1/2" MIN. O.C. SPACING

TYPE 'D'- 5/16" DIA. DRIL-FLEX SELF DRILLING SCREWS

- INTO METAL STRUCTURES (STEEL 1/8" MIN. THK.):
(4) PER ANGLE
3/4" MIN. EDGE DISTANCE
3" MIN. O.C. SPACING

WOOD AT HEAD,SILL 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

WOOD, CONCRETE AND METAL STRUCTURE NOT BY OGT
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.



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WALL SYSTEM
(LARGE AND SMALL MISSILE IMPACT RATED)

OGT WINDOW PRODUCTS, LLC.

6910 NW 42ND STREET,

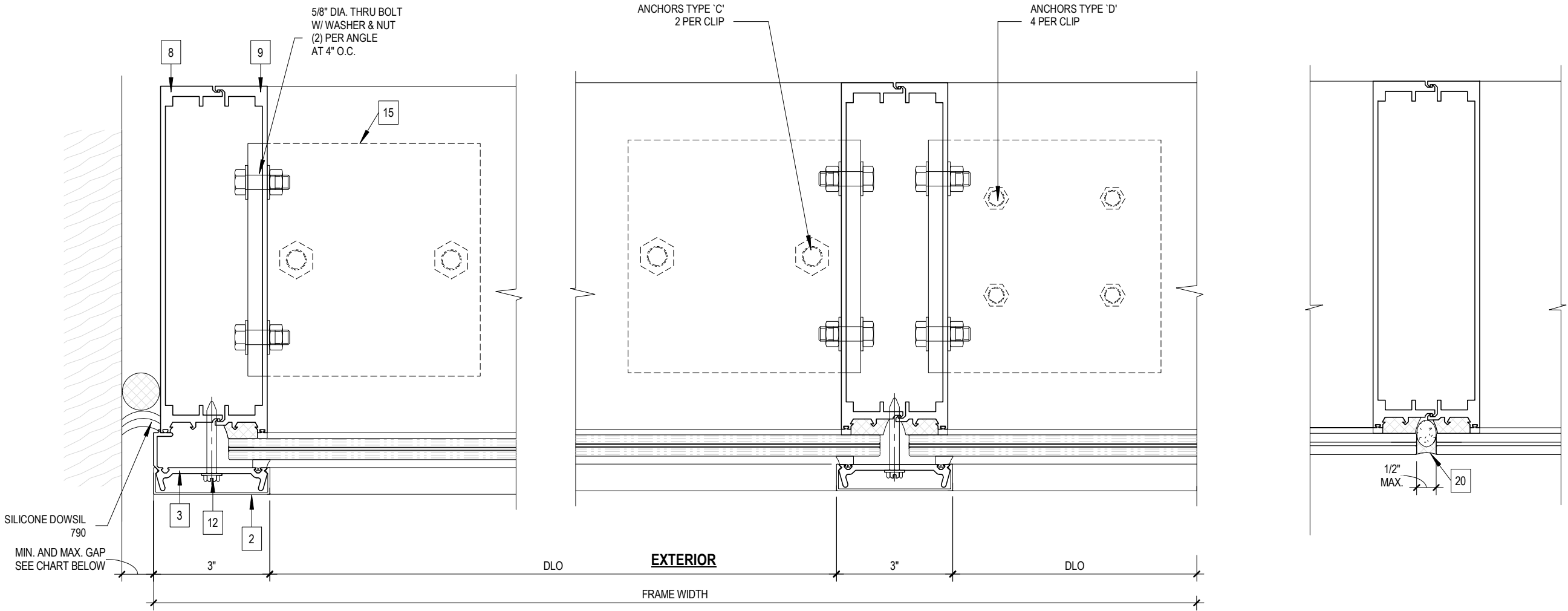
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		DATE	BY	DESCRIPTION	
		No.			

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FLA PE #70592
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MAX. FRAME HEIGHT	MIN. GAP	MAX. GAP
144"	5/8"	1"
120"	1/2"	1"
96"	1/2"	1"



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NOTE: REFER TO SHEET 106 FOR THE DETAILS OF 'C' AND 'D' ANCHOR TYPES SHOWN ON THIS SHEET



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drawing no.	date:	JA-1692-23	10-31-2023	AG	BS	REVISION			
						DATE	BY	DESCRIPTION	
						No.			

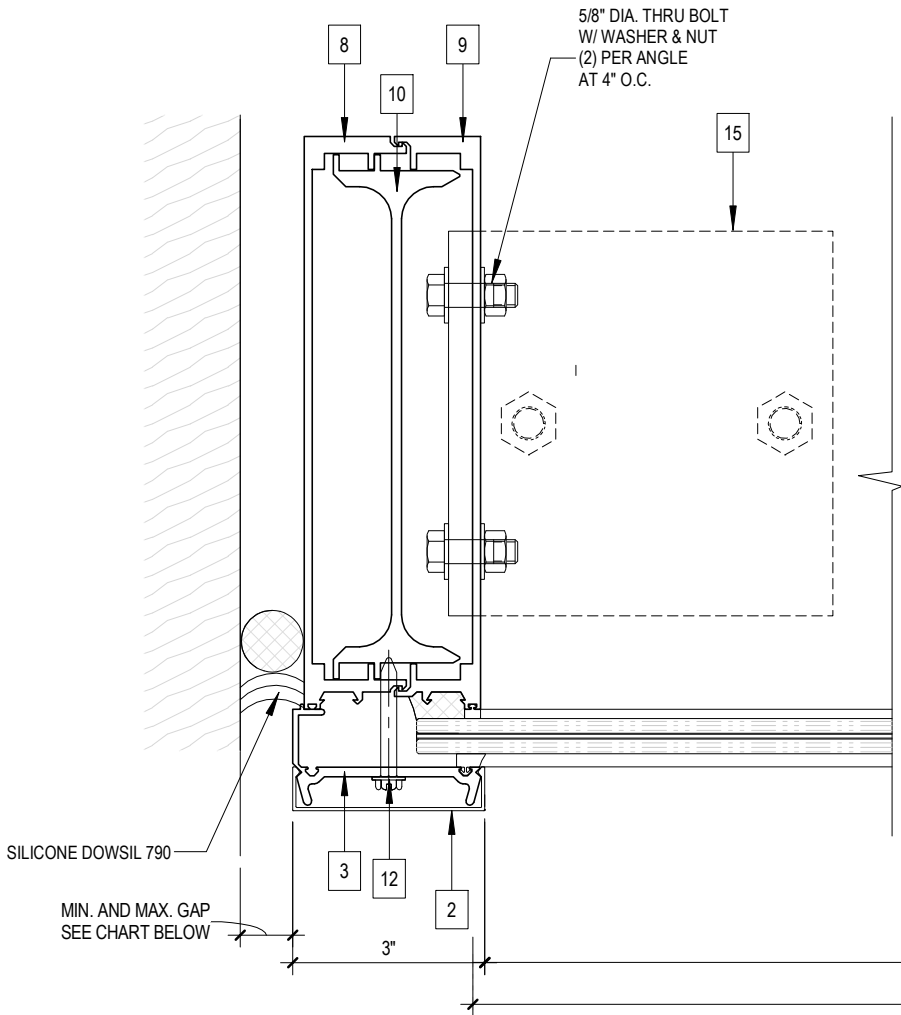
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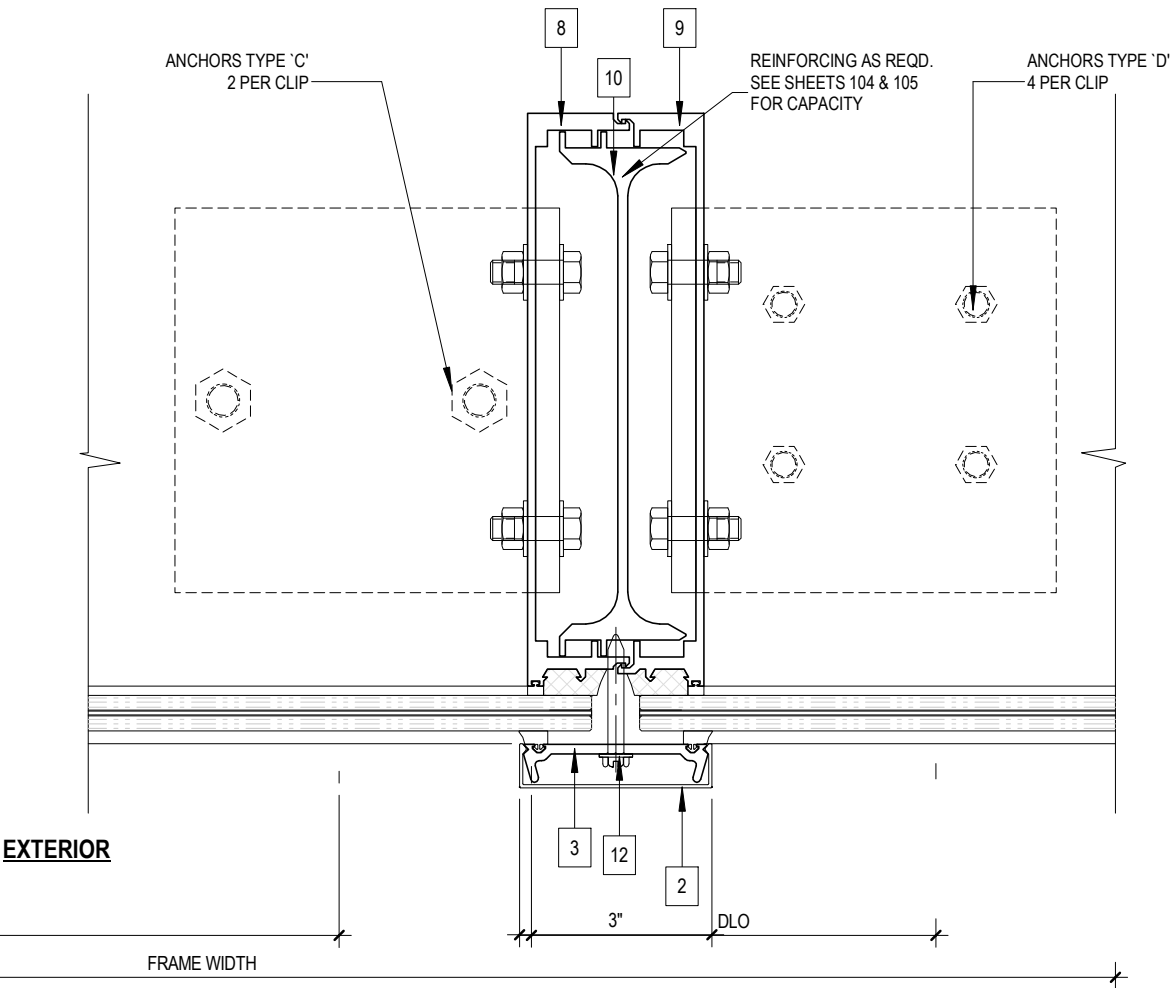
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MAX. FRAME HEIGHT	MIN. GAP	MAX. GAP
168"	3/4"	1"
144"	5/8"	1"
120"	1/2"	1"
96"	1/2"	1"



1
108 JAMB J2 WITH ALUM. REINFORCEMENT
N.T.S



2
108 INTERMEDIATE VERRICAL MULLION M2 WITH ALUM. REINFORCEMENT
N.T.S

NOTE: REFER TO SHEET 106 FOR THE DETAILS OF 'C' AND 'D' ANCHOR TYPES SHOWN ON THIS SHEET



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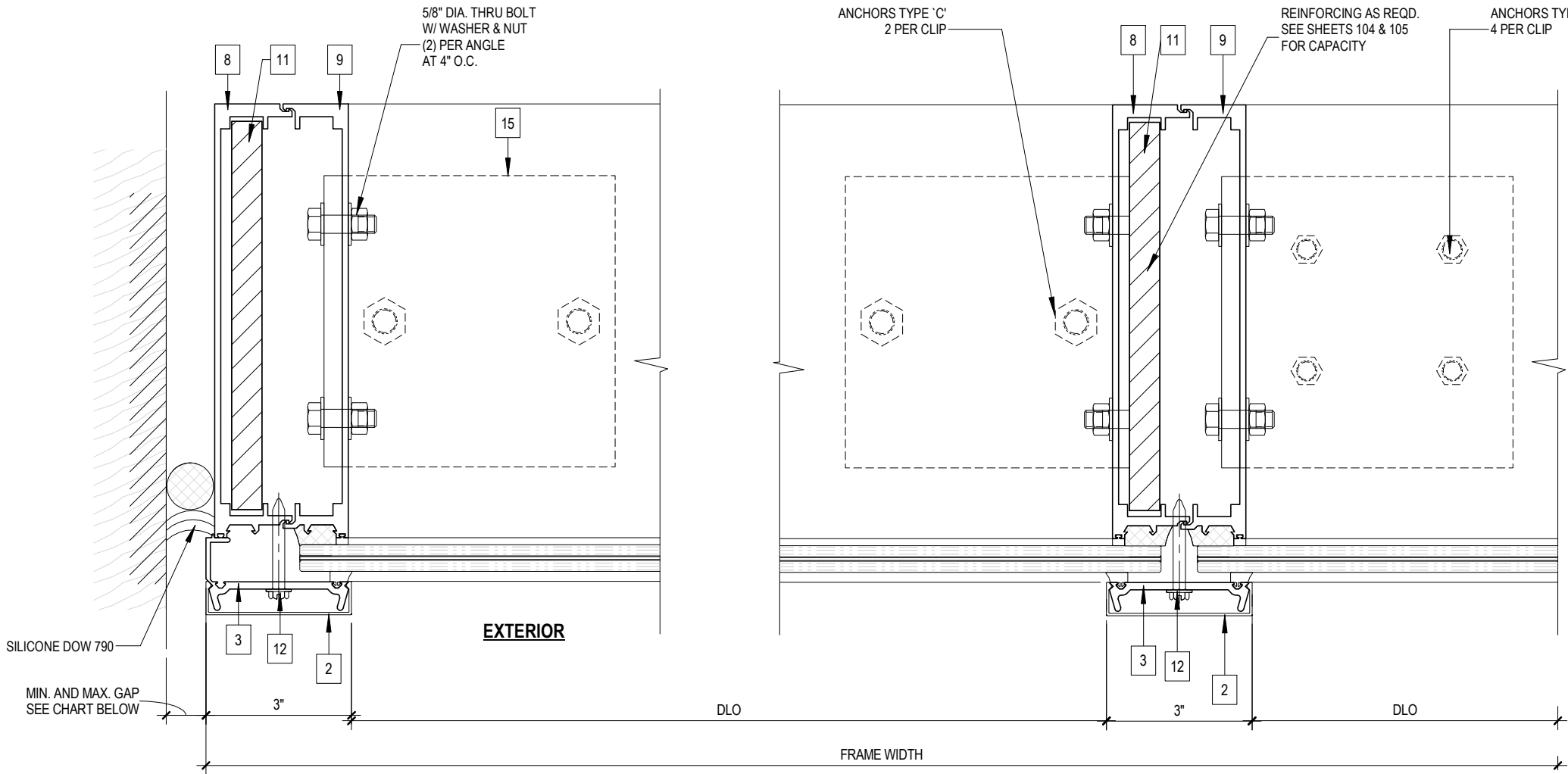
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No.	DATE	BY	DESCRIPTION

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FLA PE #70592
C.A.N. 34254

MAX. FRAME HEIGHT	MIN. GAP	MAX. GAP
168"	3/4"	1"
144"	5/8"	1"
120"	1/2"	1"
96"	1/2"	1"



1
109 JAMB J3 WITH STEEL REINFORCEMENT
N.T.S

2
109 INTERMEDIATE VERTICAL MULLION M3 WITH STEEL REINFORCEMENT
N.T.S



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WALL SYSTEM
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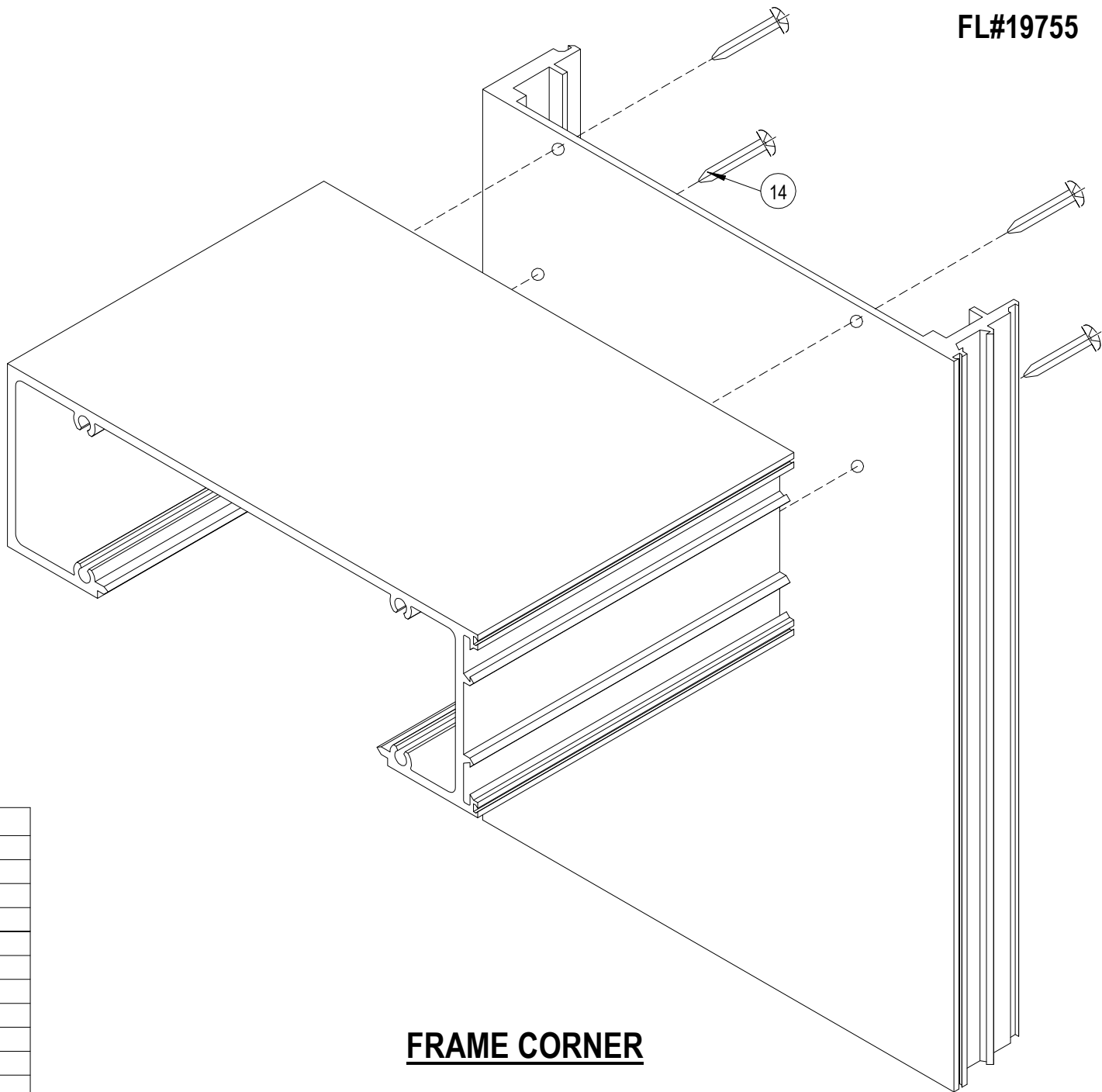
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FLA PE #70592
C.A.N. 34254

BILL OF MATERIAL AND CORNER ASSEMBLY DETAIL

FL#19755



FRAME CORNER

PARTS LIST					
ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	OIC-017	AS REQD.	FRAME HEAD/SILL/INTERMEDIATE	6063-T6	-
2	OIC-019	AS REQD.	GLAZING RETAINER COVER	6063-T6	-
3	OIC-018	AS REQD.	PERIMETER GLAZING RETAINER (LAM.GLASS)	6063-T6	-
3.1	-	AS REQD.	INTERMEDIATE GLAZING RETAINER	6063-T6	-
4	CSM-1027	AS REQD.	SNAP-IN COVER	6063-T6	-
5	-	AS REQD.	SETTING ANGLE (LAM.GLASS)	6063-T6	4" LONG
5A	-	AS REQD.	SETTING ANGLE (INSUL. LAM. GLASS)	6063-T6	6" LONG
6	-	AS REQD.	-	-	-
7	-	2/ CORNER	ROLL FORMED ALUMINUM CORNER	6063-T6	-
8	OIC-3	AS REQD.	MALE MULLION	6063-T6	-
9	OIC-2	-	FEMALE MULLION	6063-T6	-
10	OIC-68	-	MULLION REINFORCING	6063-T6	-
11	-	-	MULLION REINFORCING	STEEL	-
12	1/4" DIA.	AS REQD.	GLAZING RETAINER SCREWS	-	WASHER HEAD TEKS, AT 12" O.C.
13	#10 X 3/4"	1/ CLIP	SETTING ANGLE SCREWS (LAM.GLASS)	-	TEKS
13A	#10 X 3/4"	3/ CLIP	SETTING ANGLE SCREWS (INSUL. LAM.GLASS)	-	TEKS, AT 2-1/2" O.C.
14	1/4 X 2"	4/ CORNER	FRAME ASSEMBLY SCREWS	ST. STEEL	HH TEKS
15	-	2/ MULLION	3-1/2 X 6 X 3/8" ALUM. ANGLE, 6" LONG	6063-T6	(1) AT EACH SIDE OF MULLION
16	WE-1641	-	INT. GLAZING GASKET	PVC	UNIVERSAL RUBBER CO.
17	2338	-	EXT. GLAZING GASKET	PVC	UNIVERSAL RUBBER CO.
18	-	-	SEALANT AND BACKER ROD	-	-
20	DOWSIL 995	AS REQD.	GLAZING COMPOUND	SILICONE	DOW CORNING
21	-	AS REQD.	SETTING CHANNEL	6063-T6	3/4 X 3/4 X1/8"
22	#10 X 1-1/2"	AS REQD.	CHANNEL SCREWS	-	FH TEKS, AT 24" O.C.
23	-	AS REQD.	DOUBLE FACE TAPE	-	-
24	-	AS REQD.	SETTING BLOCK, 1-1/2" X 4" X1/16"	NEOPRENE	DUROMETER 80±5 SHORE A
24A	-	AS REQD.	SETTING BLOCK, 1-1/2" X 4" X1/8"	NEOPRENE	DUROMETER 80±5 SHORE A



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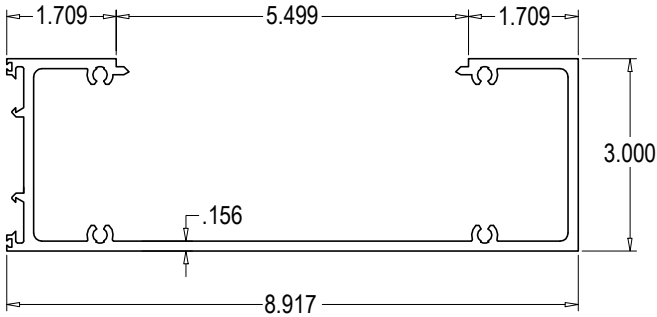
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FLA PE #70592
C.A.N. 34254

PARTS

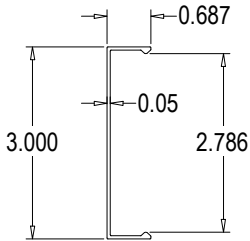
NOTE:

- ALL DIMENSIONS SHOWN ON THIS SHEET ARE IN INCHES.
- REFER TO PARTS LIST ON SHEET 111 FOR DETAILS

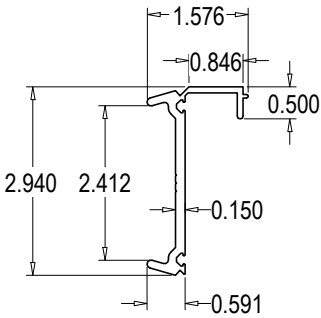
FL#19755



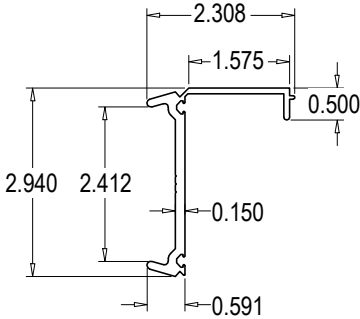
1 FRAME/HEAD/SILL/INTERMEDIATE



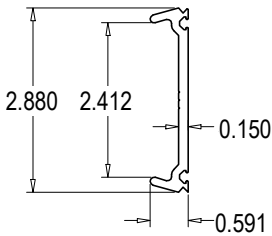
2 GLAZING RETAINER COVER



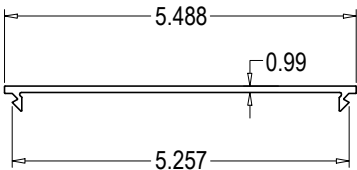
3 PERIMETER GLAZING RETAINER (LAM. GLASS)



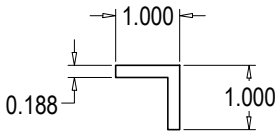
3A PERIMETER GLAZING RETAINER (INSUL. LAM. GLASS)



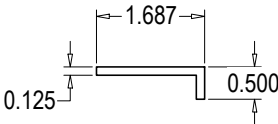
3.1 INTERMEDIATE GLAZING RETAINER



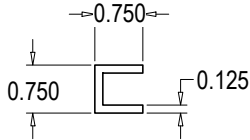
4 SNAP IN COVER



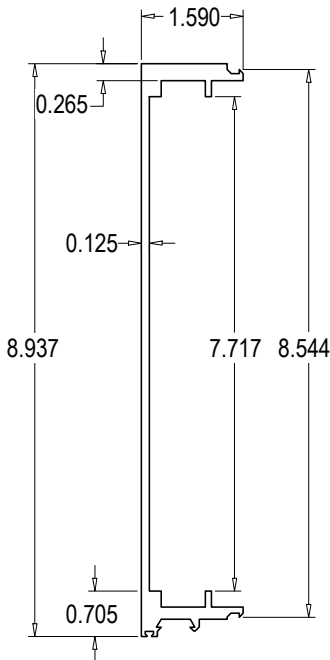
5 SETTING ANGLE (LAM. GLASS)



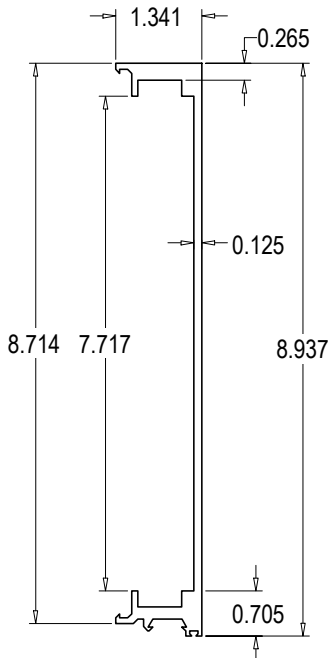
5A SETTING ANGLE (INSUL. LAM. GLASS)



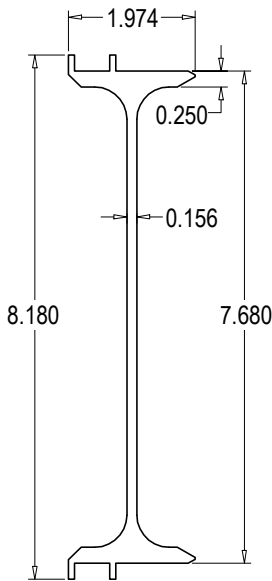
21 SETTING CHANNEL



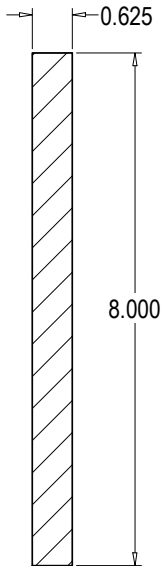
8 MALE MULLION



9 FEMALE MULLION



10 MULLION REINFORCING ALUMINUM



11 MULLION REINFORCING STEEL



Digitally signed
by Javad
Ahmad
Date:
2023.12.22
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							DATE	BY	DESCRIPTION	

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C.A.N. 34254