SERIES 3070 ALUMINUM WINDOW WALL
SMALL MISSILE IMPACT (S.M.I.)

NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 6TH EDITION FLORIDA BUILDING CODE (2017) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

- WINDOW WALL RATED FOR SMALL MISSILE IMPACT. IMPACT RESISTANT SHUTTERS ARE REQUIRED FOR INSTALLATIONS UP TO 30 FT OF GRADE. SHUTTERS ARE NOT REQUIRED FOR INSTALLATIONS ABOVE 30 FT OF GRADE.

- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.

- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 6TH EDITION FLORIDA BUILDING CODE (2017) SECTION AS APPLICABLE.

- METAL STRUCTURES NOT BY CONTINENTAL GLASS SYSTEMS, LLC. TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

- ULTIMATE LOAD OBTAINED FROM ASCE 7-10, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

INSTRUCTIONS:
USE CHARTS AS FOLLOWS.

STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-10 STANDARD.

STEP 2: SEE TYPICAL ELEVATION ON SHEET E1.

STEP 3: SEE CHART 1 ON SHEET G1 FOR APPROVED GLASS TYPES AND DESIGN LOAD CAPACITIES BASED ON APPLICABLE WIND DURATION. FOR SSG OPTION SEE CHART 2 ON SHEET G1 FOR DESIGN LOAD CAPACITIES. GLASS CAPACITY GOVERNED BY CHART 1 OR CHART 2 WHICHEVER IS CRITICAL

STEP 4: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET M1 TO M4. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 5: CHECK ANCHOR TYPE ON SHEET A3 AND ANCHOR CAPACITY ON SHEET A1 & A2. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 6: THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4 AND 5 SHALL APPLY TO ENTIRE SYSTEM.

LIMITATIONS OF USE

A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e.WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

B- 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.

C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

D- 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.

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

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
LG. - LONG
STL. - STEEL
ALUM. - ALUMINUM
MULL. - MULLION
HORIZ. - HORIZONTAL
W/ - WITH
W/O - WITHOUT
VERT.- VERTICAL
℄ - CENTER LINE
S.S. - STAINLESS STEEL
H.S. - HEAT STRENGTHENED
SSG - STRUCTURAL SILICONE GLAZED
TEMP. - TEMPERED
O.C. - ON CENTER

SECTION NUMBER
X
XX
SHEET NUMBER

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 25677
AUGUST 18th, 2017

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
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SYSTEM 3070 WINDOW WALL (SMI)

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Rev. No.	Date	Drawn By	Description

Drawn Date 07/24/2017
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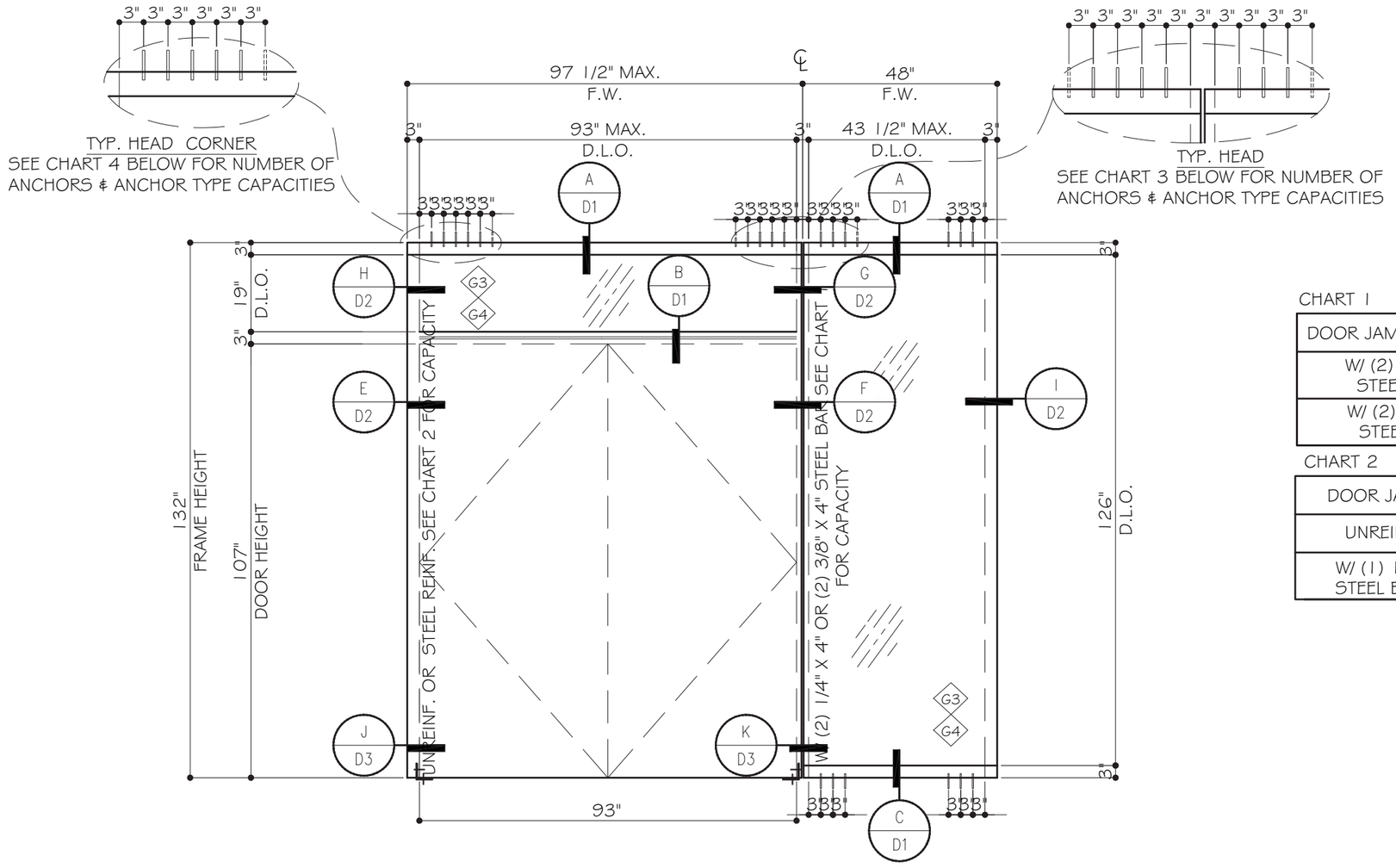
DRAWING NO.
AD17-18

COVER

Sheet No.
01 OF 17



TYPICAL EXTERIOR ELEVATION

WITH DOUBLE DOOR

CHART 1

DOOR JAMB MULLION	Pdall. (PSF)
W/ (2) 1/4"X4" STEEL BAR	+109.3 - 109.3
W/ (2) 3/8"X4" STEEL BAR	+120.0 -126.2

CHART 2

DOOR JAMB JAMB	Pdall. (PSF)
UNREINFORCED	+105.8 - 105.8
W/ (1) 1/4"X4 1/2" STEEL BAR	+120.0 -130 .0

CHART 3

DOOR JAMB MULLION ANCHOR CHART AT TOP			
ANCHOR TYPE	# OF ANCHORS @ DOOR SIDE	# OF ANCHORS @ SIDELITE	CAPACITY (+/-PSF)
A	4	3	88.9
A	5	4	114.3
B	4	3	95.3
B	5	4	122.5
BB	4	3	111.7
BB	5	4	130.0
C	4	3	104.4
C	5	4	130.0

FOR ANCHORS TYPE SEE SHEET A3

CHART 4

DOOR JAMB JAMB ANCHOR CHART AT TOP		
ANCHOR TYPE	# OF ANCHORS @ DOOR SIDE	CAPACITY (+/-PSF)
A	5	94.1
A	6	112.9
B	5	100.8
B	6	121.0
BB	4	94.5
BB	6	130.0
C	5	110.5
C	6	130.0

NOTE:
DESIGN LOAD CAPACITY FOR SIZE SHOWN ON THIS ELEVATION. FOR DIFFERENT SIZE, TO BE ENGINEERED SEPARATELY.

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E1

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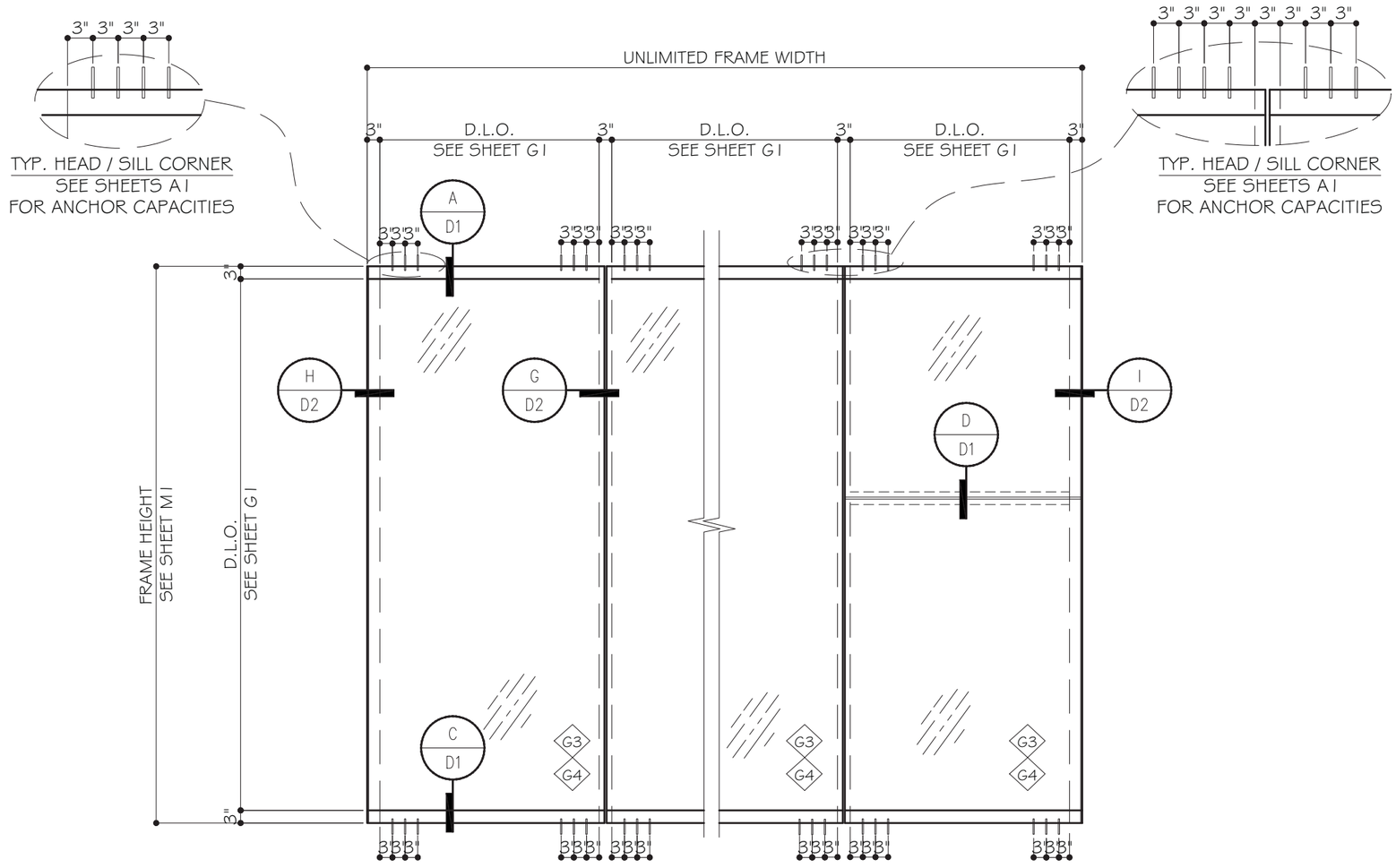

TYPICAL EXTERIOR ELEVATION

SEE CHARTS ON SHEETS M1 AND M2 FOR
UNREINFORED OR REINFORCED OPTIONS

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E2

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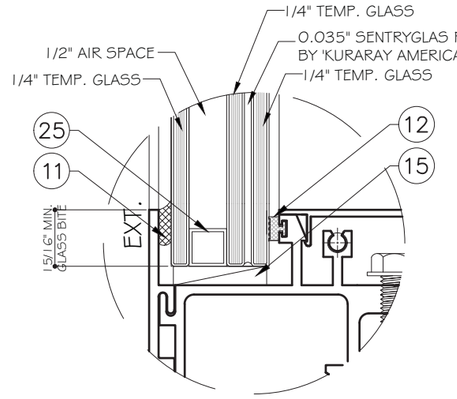
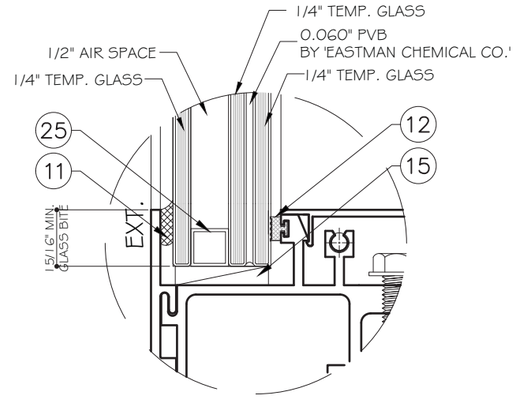
AUGUST 18th, 2017

GLASS CAPACITIES (PSF)

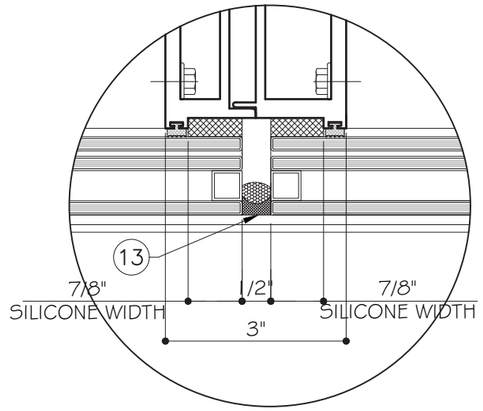
D.L.O. WIDTH	D.L.O. HEIGHT	GLASS TYPE 'G3' & 'G4'	
(IN.)	(IN.)	(+/- PSF)	(+/- PSF)
51	90	120.0	150.0
57		120.0	150.0
63		120.0	150.0
69		120.0	150.0
45	96	120.0	150.0
51		120.0	150.0
57		120.0	150.0
63		120.0	150.0
69		120.0	150.0
45	102	120.0	150.0
51		120.0	150.0
57		120.0	150.0
63		120.0	150.0
45	108	120.0	150.0
51		120.0	150.0
57		120.0	150.0
62		120.0	150.0
39	114	120.0	150.0
45		120.0	150.0
51		120.0	150.0
57		120.0	150.0
39	120	120.0	150.0
45		120.0	150.0
51		120.0	150.0
56		120.0	150.0
39	126	120.0	150.0
45		120.0	150.0
51		120.0	150.0
53		120.0	150.0
33	132	120.0	150.0
39		120.0	150.0
45		120.0	150.0
51		120.0	150.0
33	138	120.0	150.0
39		120.0	150.0
45		120.0	150.0
48		120.0	150.0
33	144	120.0	150.0
39		120.0	150.0
45		120.0	150.0

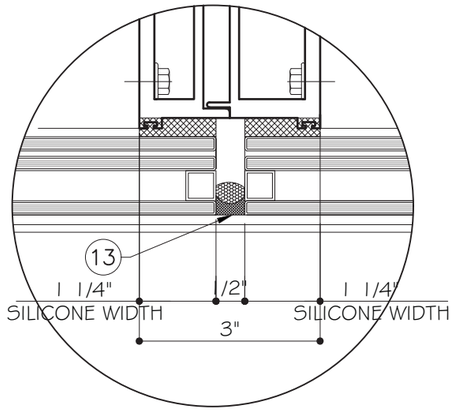


GLASS TYPE 'G3'
1-5/16" NOMINAL OVERALL



GLASS TYPE 'G4'
1-5/16" NOMINAL OVERALL





MULLION C-C	CAPACITY DUE TO SILICONE	
WIDTH (IN.)	S.W. 7/8" (PSF)	S.W. 1 1/4" (PSF)
36	130.0	130.0
42	120.0	130.0
48	105.0	130.0
54	93.3	130.0
60	84.0	120.0
66	76.4	109.1
72	70.0	100.0

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AUGUST 18th, 2017

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G1

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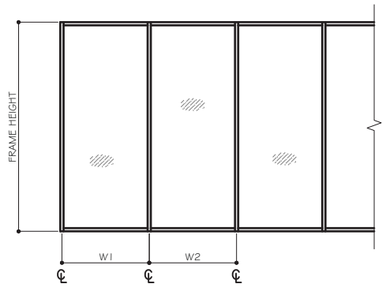
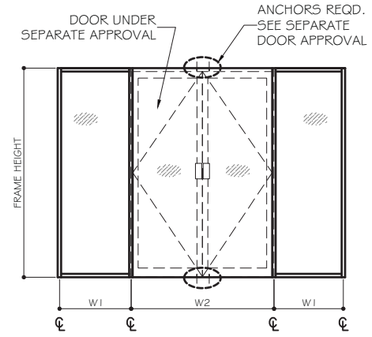
DESIGN LOAD CAPACITY WITHOUT HORIZONTAL- PSF			
MULLION DIMENSION		MULLION (M1)	
MULLION WIDTH (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)
42	96	120.0	130.0
48		120.0	130.0
54		120.0	130.0
60		120.0	130.0
42	102	120.0	130.0
48		120.0	130.0
54		120.0	130.0
36	108	120.0	130.0
42		120.0	130.0
48		120.0	130.0
36	114	120.0	130.0
42		120.0	130.0
48		120.0	130.0
36	120	120.0	130.0
42		120.0	130.0
48		120.0	127.0
30	126	120.0	130.0
36		120.0	130.0
42		120.0	126.0
30	132	120.0	130.0
36		120.0	128.0
42		111.0	111.0
30	138	120.0	130.0
36		115.0	115.0
30	144	120.0	120.0
36		101.0	101.0

DESIGN LOAD CAPACITY WITHOUT HORIZONTAL- PSF					
MULLION DIMENSION		MULLION (M2)		JAMB (J1)	
MULLION WIDTH (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
54	96	120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
66		120.0	150.0	120.0	150.0
72		120.0	150.0	120.0	150.0
48	102	120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
66		120.0	150.0	120.0	150.0
48	108	120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
66		120.0	150.0	120.0	150.0
42	114	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
42	120	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	147.0	120.0	150.0
42	126	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	145.0	120.0	150.0
57.5		120.0	137.0	120.0	150.0
42	132	120.0	150.0	120.0	150.0
48		120.0	146.0	120.0	150.0
54		120.0	131.0	120.0	148.0
55		120.0	129.0	120.0	146.0
30	138	120.0	150.0	120.0	150.0
36		120.0	150.0	120.0	150.0
42		120.0	150.0	120.0	150.0
48		120.0	133.0	120.0	143.0
52.5		114.0	122.0	114.0	132.0
30	144	120.0	150.0	120.0	150.0
36		120.0	150.0	120.0	150.0
42		120.0	138.0	120.0	142.0
48		113.0	122.0	113.0	126.0
30	150	120.0	150.0	120.0	150.0
36		120.0	147.0	120.0	145.0
42		118.0	127.0	118.0	125.0
48		104.0	112.0	104.0	111.0

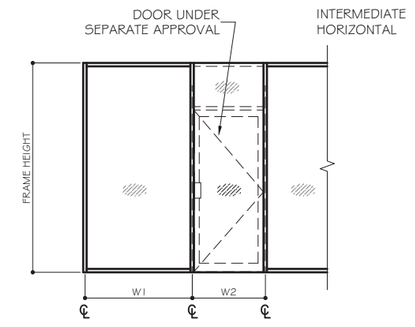


WIDTH (W) = W1
AT JAMB

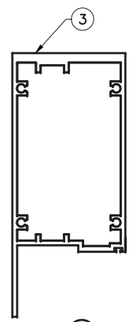
WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$
AT MULLION

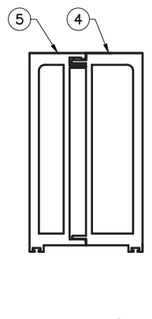


WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



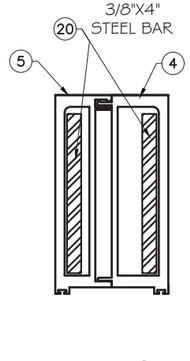
JAMB (J1)

J1	Ix IN^4	Sx IN^3
3070-04	14.0081	3.1798



MULLION (M1)

M2	Ix IN^4	Sx IN^3
3070-05	9.0965	3.3871
3070-06	8.1053	3.0071
TOTAL	17.2018	6.3819



MULLION (M2)

M2	Ix IN^4	Sx IN^3
3070-05	9.0965	3.3871
3070-06	8.1053	3.0071
(2) STEEL	4.000	2.000
TOTAL	28.8018	

Ix.tot =Ix Alum.+2.9*Ix.st

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Scale

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M1

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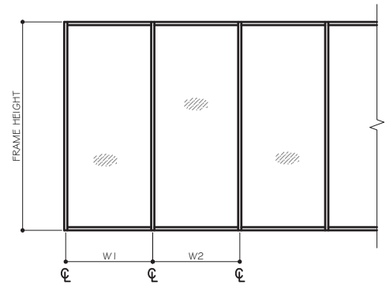
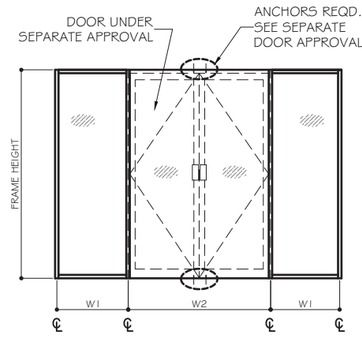
DESIGN LOAD CAPACITY WITHOUT HORIZONTAL- PSF					
MULLION DIMENSION		MULLION (M3)		JAMB (J2)	
MULLION WIDTH (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
54	96	120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
66		120.0	150.0	120.0	150.0
72		120.0	150.0	120.0	150.0
48	102	120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
66		120.0	150.0	120.0	150.0
48	108	120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
66		120.0	150.0	120.0	150.0
42	114	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
42	120	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	147.0	120.0	150.0
42	126	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
57.5		120.0	150.0	120.0	150.0
42	132	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
55		120.0	150.0	120.0	150.0
30	138	120.0	150.0	120.0	150.0
36		120.0	150.0	120.0	150.0
42		120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
52.5		120.0	142.3	120.0	144.0
30	144	120.0	150.0	120.0	150.0
36		120.0	150.0	120.0	150.0
42		120.0	150.0	120.0	150.0
48		120.0	141.0	113.0	144.0
30	150	120.0	150.0	120.0	150.0
36		120.0	150.0	120.0	150.0
42		120.0	146.0	118.0	150.0
48		120.0	129.0	104.0	133.0

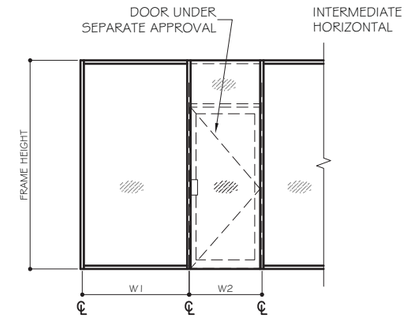


WIDTH (W) = W1
AT JAMB

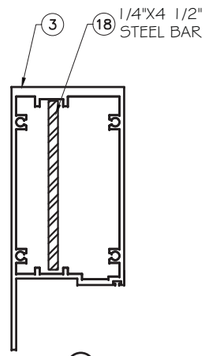
WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$
AT MULLION



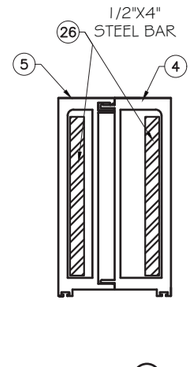
WIDTH (W) = W1 + W2
AT MULLION $\frac{W1 + W2}{2}$



JAMB (J2)

J1	Ix IN^4	Sx IN^3
3070-04	14.0081	3.1798
STEEL	1.8984	0.8438
TOTAL	19.5136	

Ix.tot =Ix Alum.+2.9*Ix.STL



MULLION (M3)

M2	Ix IN^4	Sx IN^3
3070-05	9.0965	3.3871
3070-06	8.1053	3.0071
(2) STEEL	4.000	2.000
TOTAL	28.8018	

Ix.tot =Ix Alum.+2.9*Ix.STL

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Scale

DRAWING NO.
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M2

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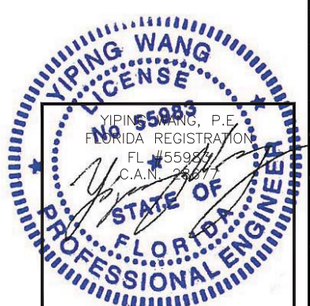
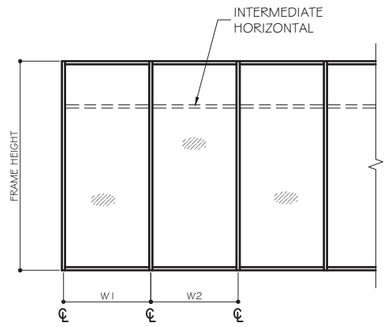


YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 25677

AUGUST 18th, 2017

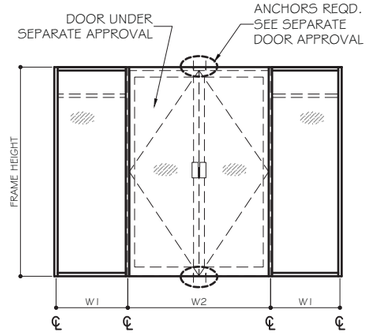
DESIGN LOAD CAPACITY WITH HORIZONTAL- PSF			
MULLION DIMENSION		MULLION (M1)	
MULLION WIDTH (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)
42	96	120.0	130.0
48		120.0	130.0
54		120.0	130.0
60		120.0	130.0
42	102	120.0	130.0
48		120.0	130.0
54		120.0	130.0
36	108	120.0	130.0
42		120.0	130.0
48		120.0	130.0
36	114	120.0	130.0
42		120.0	130.0
48		120.0	130.0
36	120	120.0	130.0
42		120.0	130.0
48		120.0	127.0
30	126	120.0	130.0
36		120.0	130.0
42		120.0	126.0
30	132	120.0	130.0
36		120.0	128.0
42		109.0	109.0
30	138	120.0	130.0
36		112.0	112.0
30	144	118.0	118.0
36		98.0	98.0

DESIGN LOAD CAPACITY WITHOUT HORIZONTAL- PSF					
MULLION DIMENSION		MULLION (M2)		JAMB (J1)	
MULLION WIDTH (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
54	96	120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
66		120.0	150.0	120.0	150.0
72		120.0	150.0	120.0	150.0
48	102	120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
66		120.0	150.0	120.0	150.0
48	108	120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
66		120.0	150.0	120.0	150.0
42	114	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
42	120	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	143.0	120.0	150.0
42	126	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	144.0	120.0	150.0
57.5		120.0	135.4	120.0	142.8
42	132	120.0	150.0	120.0	150.0
48		120.0	146.0	120.0	150.0
54		120.0	131.0	120.0	139.0
55		120.0	129.0	120.0	136.1
30	138	120.0	150.0	120.0	150.0
36		120.0	150.0	120.0	150.0
42		120.0	150.0	120.0	150.0
48		120.0	135.0	120.0	136.0
52.5		115.0	115.0	115.0	125.0
30	144	120.0	150.0	120.0	150.0
36		120.0	150.0	120.0	150.0
42		120.0	141.0	120.0	137.0
48		116.0	123.0	113.0	120.0
30	150	120.0	150.0	120.0	150.0
36		120.0	146.0	120.0	142.0
42		120.0	125.0	118.0	121.0
48		106.0	109.0	106.0	106.0

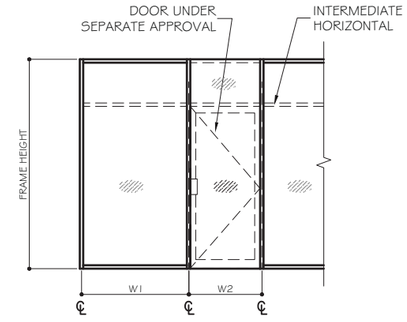


WIDTH (W) = W1
AT JAMB

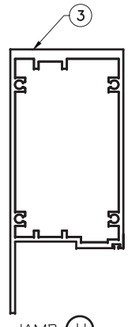
WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$
AT MULLION

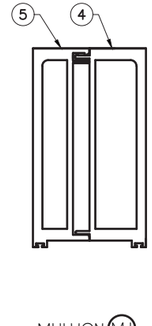


WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



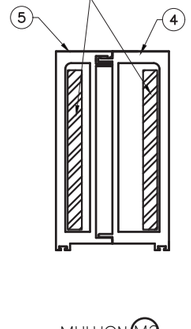
JAMB (J1)

J1	Ix IN^4	Sx IN^3
3070-04	14.0081	3.1798



MULLION (M1)

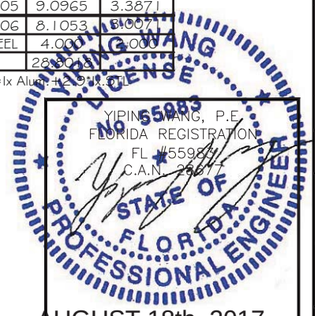
M2	Ix IN^4	Sx IN^3
3070-05	9.0965	3.3871
3070-06	8.1053	3.0071
TOTAL	17.2018	6.3819



MULLION (M2)

M2	Ix IN^4	Sx IN^3
3070-05	9.0965	3.3871
3070-06	8.1053	3.0071
(2) STEEL	4.0000	4.0000
TOTAL	28.0036	10.3942

Ix.tot =Ix Alum+2*Ix.Steel



YIPING WANG, P.E.
FLORIDA REGISTRATION
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AUGUST 18th, 2017

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Rev. No.	Date	Drawn By	Description

Drawn Date 07/24/2017

Scale

DRAWING NO.
AD17-18

M3

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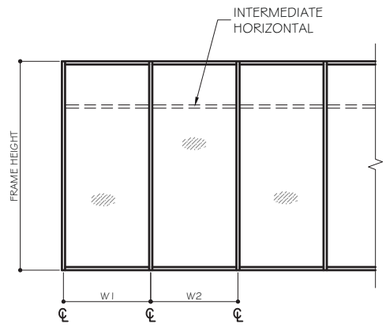
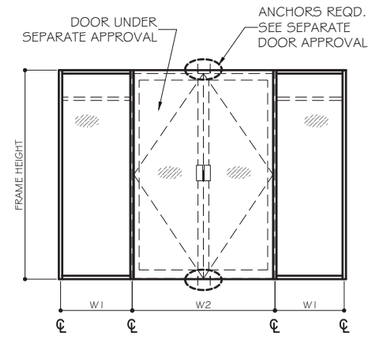
DESIGN LOAD CAPACITY WITHOUT HORIZONTAL- PSF					
MULLION DIMENSION		MULLION (M3)		JAMB (J2)	
MULLION WIDTH (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
54	96	120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
66		120.0	150.0	120.0	150.0
72		120.0	150.0	120.0	150.0
48	102	120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
66		120.0	150.0	120.0	150.0
48	108	120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
66		120.0	150.0	120.0	150.0
42	114	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	150.0	120.0	150.0
42	120	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
60		120.0	147.0	120.0	150.0
42	126	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
57.5		120.0	150.0	120.0	150.0
42	132	120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
54		120.0	150.0	120.0	150.0
55		120.0	150.0	120.0	150.0
30	138	120.0	150.0	120.0	150.0
36		120.0	150.0	120.0	150.0
42		120.0	150.0	120.0	150.0
48		120.0	150.0	120.0	150.0
52.5		120.0	137.5	120.0	144.0
30	144	120.0	150.0	120.0	150.0
36		120.0	150.0	120.0	150.0
42		120.0	150.0	120.0	150.0
48		120.0	140.0	113.0	144.0
30	150	120.0	150.0	120.0	150.0
36		120.0	150.0	120.0	150.0
42		120.0	142.0	118.0	150.0
48		120.0	124.0	104.0	133.0

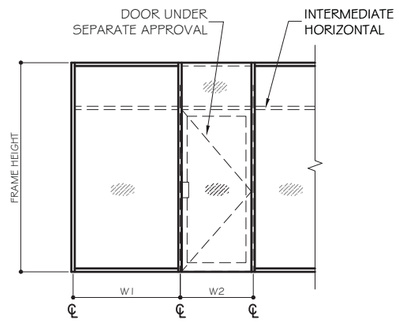


WIDTH (W) = W1
AT JAMB

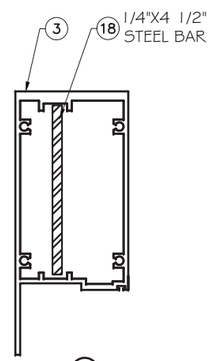
WIDTH (W) = $\frac{W1 + W2}{2}$
AT MULLION



WIDTH (W) = $\frac{W1}{2} + \frac{W2}{4}$
AT MULLION



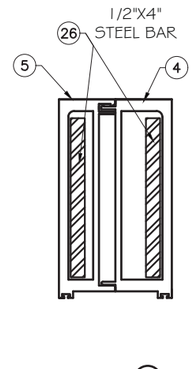
WIDTH (W) = W1 + W2
AT MULLION = $\frac{W1 + W2}{2}$



JAMB (J2)

J1	Ix IN^4	Sx IN^3
3070-04	14.0081	3.1798
STEEL	1.8984	0.8438
TOTAL	19.5136	

Ix.tot =Ix Alum.+2.9*Ix.STL



MULLION (M3)

M2	Ix IN^4	Sx IN^3
3070-05	9.0965	3.3871
3070-06	8.1053	3.0071
(2) STEEL	4.000	2.000
TOTAL	28.8018	

Ix.tot =Ix Alum.+2.9*Ix.STL

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YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 29677

AUGUST 18th, 2017

Rev. No.	Date	Drawn By	Description

Drawn Date 07/24/2017

Scale

DRAWING NO.
AD17-18

M4

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ANCHOR CAPACITY - PSF						
NOMINAL DIMENSION		A3	A4	C3	C4	D3
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
48	90	150.0	150.0	150.0	150.0	150.0
54		138.7	150.0	150.0	150.0	150.0
60		124.8	150.0	146.6	150.0	150.0
66		113.5	150.0	133.2	150.0	150.0
72		104.0	138.7	122.1	150.0	150.0
48	96	146.3	150.0	150.0	150.0	150.0
54		130.0	150.0	150.0	150.0	150.0
60		117.0	150.0	137.4	150.0	150.0
66		106.4	141.8	124.9	150.0	150.0
72		97.5	130.0	114.5	150.0	150.0
48	102	137.6	150.0	150.0	150.0	150.0
54		122.4	150.0	143.7	150.0	150.0
60		110.1	146.8	129.3	150.0	150.0
66		100.1	133.5	117.6	150.0	150.0
72		91.8	122.4	107.8	143.7	150.0
42	108	148.6	150.0	150.0	150.0	150.0
48		130.0	150.0	150.0	150.0	150.0
54		115.6	150.0	135.7	150.0	150.0
60		104.0	138.7	122.1	150.0	150.0
66		94.5	126.1	111.0	148.0	150.0
42	114	140.8	150.0	150.0	150.0	150.0
48		123.2	150.0	144.6	150.0	150.0
54		109.5	146.0	128.6	150.0	150.0
60		98.5	131.4	115.7	150.0	150.0
66		89.6	119.4	105.2	140.2	150.0
36	120	150.0	150.0	150.0	150.0	150.0
42		133.7	150.0	150.0	150.0	150.0
48		117.0	150.0	137.4	150.0	150.0
54		104.0	138.7	122.1	150.0	150.0
60		93.6	124.8	109.9	146.6	150.0
36	126	148.6	150.0	150.0	150.0	150.0
42		127.3	150.0	149.6	150.0	150.0
48		111.4	148.6	130.9	150.0	150.0
54		99.0	132.1	116.3	150.0	150.0
60		89.1	118.9	104.7	139.6	150.0
36	132	141.8	150.0	150.0	150.0	150.0
42		121.6	150.0	142.8	150.0	150.0
48		10.64	141.8	124.9	150.0	150.0
54		94.5	126.1	111.0	148.0	150.0
60		85.1	113.5	99.9	133.2	150.0

ANCHOR CAPACITY - PSF						
NOMINAL DIMENSION		A3	A4	C3	C4	D3
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	138	135.7	150.0	150.0	150.0	150.0
42		116.3	150.0	136.5	150.0	150.0
48		101.7	135.7	119.5	150.0	150.0
54		90.4	120.6	106.2	141.6	150.0
55		88.8	118.4	104.3	139.0	150.0
36	144	130.0	150.0	150.0	150.0	150.0
42		111.4	148.6	130.9	150.0	150.0
48		97.5	130.0	114.5	150.0	150.0
30	150	149.8	150.0	150.0	150.0	150.0
36		124.8	150.0	146.6	150.0	150.0
42		107.0	142.6	125.6	150.0	150.0

TYPICAL ANCHORS: SEE SHEET A2 FOR DESCRIPTION

A3 -(3) ANCHORS TYPE "A" AT EACH SIDE OF JAMB/MULLION
A4 -(4) ANCHORS TYPE "A" AT EACH SIDE OF JAMB/MULLION
C3 -(3) ANCHORS TYPE "C" AT EACH SIDE OF JAMB/MULLION
C4 -(4) ANCHORS TYPE "C" AT EACH SIDE OF JAMB/MULLION
D3 -(3) ANCHORS TYPE "D" AT EACH SIDE OF JAMB/MULLION

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Rev. No.	Date	Drawn By	Description

Drawn Date 07/24/2017
Scale

DRAWING NO.
AD17-18

A1

Sheet No.
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YIPING WANG LICENSE NO. 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 26077

AUGUST 18th, 2017

ANCHOR CAPACITY - PSF					
NOMINAL DIMENSION		B3	B4	BB3	BB4
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
48	90	150.0	150.0	150.0	150.0
54		148.6	150.0	150.0	150.0
60		133.8	150.0	150.0	150.0
66		121.6	150.0	142.5	150.0
72		111.5	148.6	130.7	150.0
48	96	150.0	150.0	150.0	150.0
54		139.3	150.0	150.0	150.0
60		125.4	150.0	147.0	150.0
66		114.0	150.0	133.6	150.0
72		104.5	139.3	122.5	150.0
48	102	147.5	150.0	150.0	150.0
54		131.1	150.0	150.0	150.0
60		118.0	150.0	138.4	150.0
66		107.3	143.1	125.8	150.0
72		98.4	131.1	115.3	150.0
42	108	150.0	150.0	150.0	150.0
48		139.3	150.0	150.0	150.0
54		123.9	150.0	145.2	150.0
60		111.5	148.6	130.7	150.0
66		101.3	135.1	118.8	150.0
42	114	150.0	150.0	150.0	150.0
48		132.0	150.0	150.0	150.0
54		117.3	150.0	137.5	150.0
60		105.6	140.8	123.8	150.0
66		96.0	128.0	112.5	150.0
36	120	150.0	150.0	150.0	150.0
42		143.3	150.0	150.0	150.0
48		125.4	150.0	147.0	150.0
54		111.5	148.6	130.7	150.0
60		100.3	133.8	117.6	150.0
36	126	150.0	150.0	150.0	150.0
42		136.5	150.0	150.0	150.0
48		119.4	150.0	140.0	150.0
54		106.2	141.5	124.4	150.0
60		95.5	127.4	112.0	149.3
36	132	150.0	150.0	150.0	150.0
42		130.3	150.0	150.0	150.0
48		114.0	150.0	133.6	150.0
54		101.3	135.1	118.8	150.0
60		91.2	121.6	106.9	142.5

ANCHOR CAPACITY - PSF					
NOMINAL DIMENSION		B3	B4	BB3	BB4
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	138	145.4	150.0	150.0	150.0
42		124.6	150.0	146.1	150.0
48		109.0	145.4	127.8	150.0
54		96.9	129.2	113.6	150.0
55		95.2	126.9	111.6	148.7
36	144	139.3	150.0	150.0	150.0
42		119.4	150.0	140.0	150.0
48		104.5	139.3	122.5	150.0
30	150	150.0	150.0	150.0	150.0
36		133.8	150.0	150.0	150.0
42		114.7	150.0	134.4	150.0

TYPICAL ANCHORS: SEE SHEET A2 FOR DESCRIPTION

B3 -(3) ANCHORS TYPE "B" AT EACH SIDE OF JAMB/MULLION
B4 -(4) ANCHORS TYPE "B" AT EACH SIDE OF JAMB/MULLION
BB3 -(3) ANCHORS TYPE "BB" AT EACH SIDE OF JAMB/MULLION
BB4 -(4) ANCHORS TYPE "BB" AT EACH SIDE OF JAMB/MULLION

YIPING WANG LICENSE NO. 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 26077

AUGUST 18th, 2017

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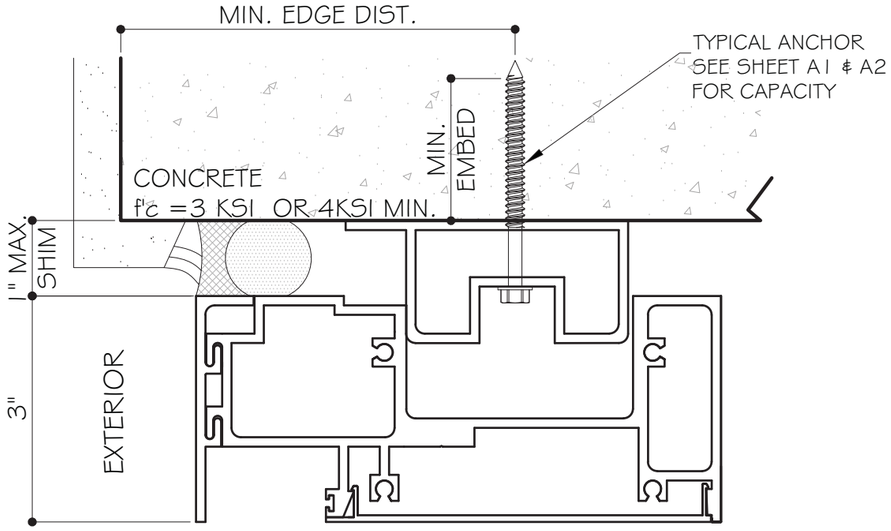
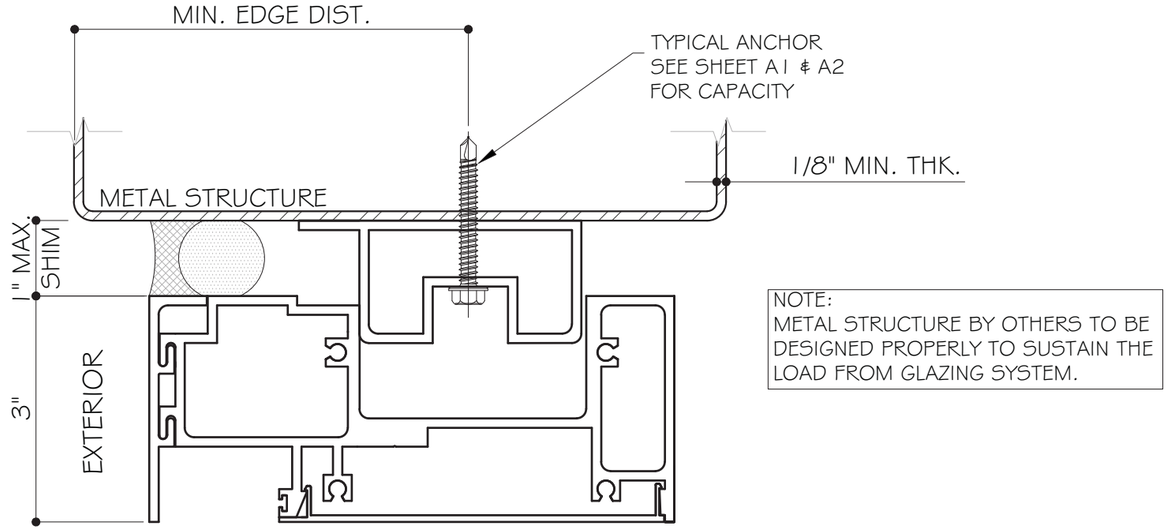




NOTE:
METAL STRUCTURE BY OTHERS TO BE DESIGNED PROPERLY TO SUSTAIN THE LOAD FROM GLAZING SYSTEM.

TYPICAL ANCHORS AT HEAD/SILL:

TYPE "A": 1/4" DIA. ULTRACON BY ELCO (Fu = 177 KSI, Fy = 155 KSI)
1-3/4" MIN. EMBED DIRECTLY INTO f'c=3 KSI MIN. CONCRETE
2 1/2" MIN. EDGE DISTANCE
@ 3" MIN. O.C.

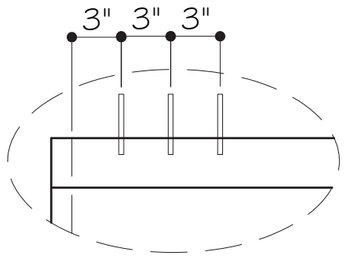
TYPE "B": 5/16" DIA. ULTRACON BY ELCO (Fu = 177 KSI, Fy = 155 KSI)
1 3/4" MIN. EMBED DIRECTLY INTO f'c=3 KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE
@ 3" MIN. O.C.

TYPE "BB": 5/16" ULTRACON BY ELCO (Fu=177 KSI, Fy=155 KSI)
1 3/4" MIN. EMBED DIRECTLY INTO f'c=4 KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE
3" MIN. O.C.

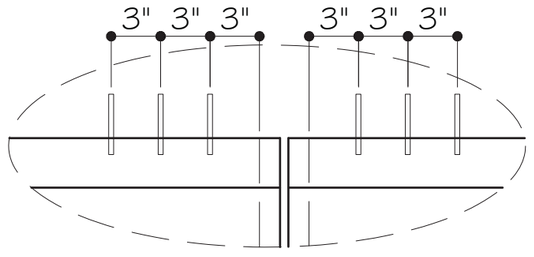
TYPE "C": #14 SMS (GRADE 2) (Fu=74 KSI, Fy=57 KSI)
INTO 1/8" MIN. THK. ALUMINUM STRUCTURE (6063-T5)
3" O.C.

TYPE "D": #14 TEKS (GRADE 5 -SELF DRILLING SCREW) (Fu=120 KSI, Fy=92 KSI)
INTO 1/8" MIN. THK. ALUMINUM STRUCTURE (6063-T6)
3" O.C.

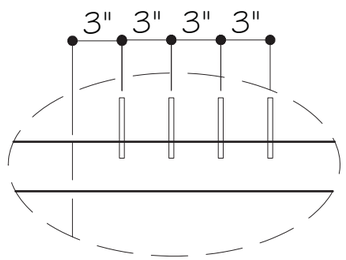
-SEALANTS:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH SILICONE SEALANT.



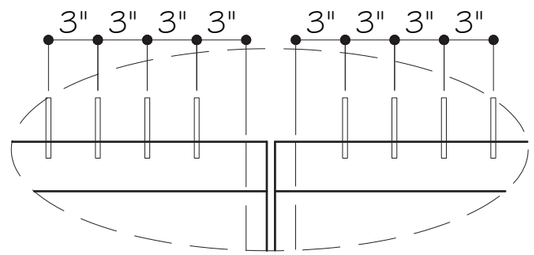
HEAD/SILL ANCHOR TYPE
"A3", "B3", "BB3", "C3", "D3"
(3) ANCHORS AT EACH SIDE OF JAMB



HEAD/SILL ANCHOR TYPE
"A3", "B3", "BB3", "C3", "D3"
(3) ANCHORS AT EACH SIDE OF MULLION



HEAD/SILL ANCHOR TYPE
"A4", "B4", "BB4", "C4"
(4) ANCHORS AT EACH SIDE OF JAMB



HEAD/SILL ANCHOR TYPE
"A4", "B4", "BB4", "C4"
(4) ANCHORS AT EACH SIDE OF MULLION

YIPING WANG
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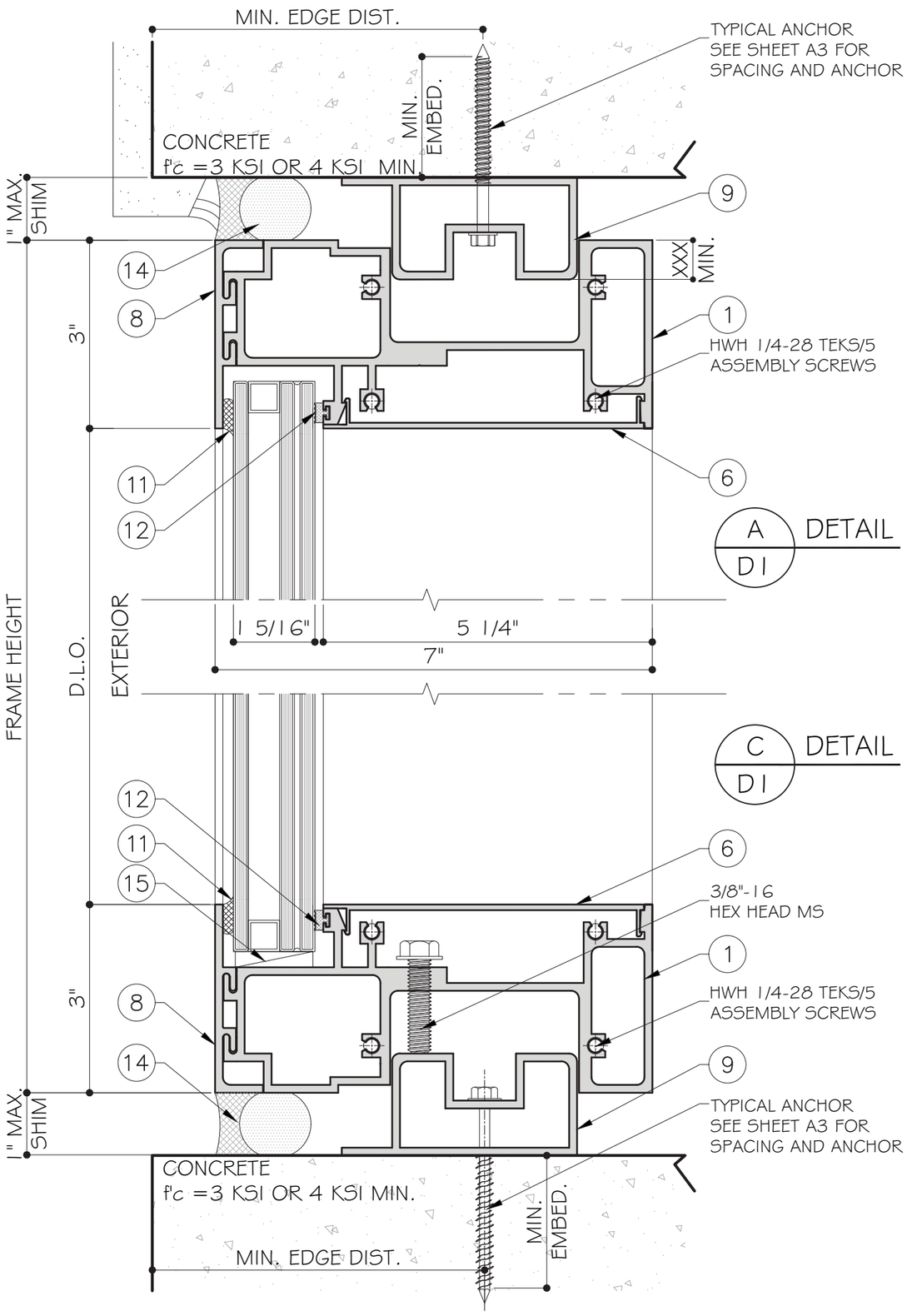

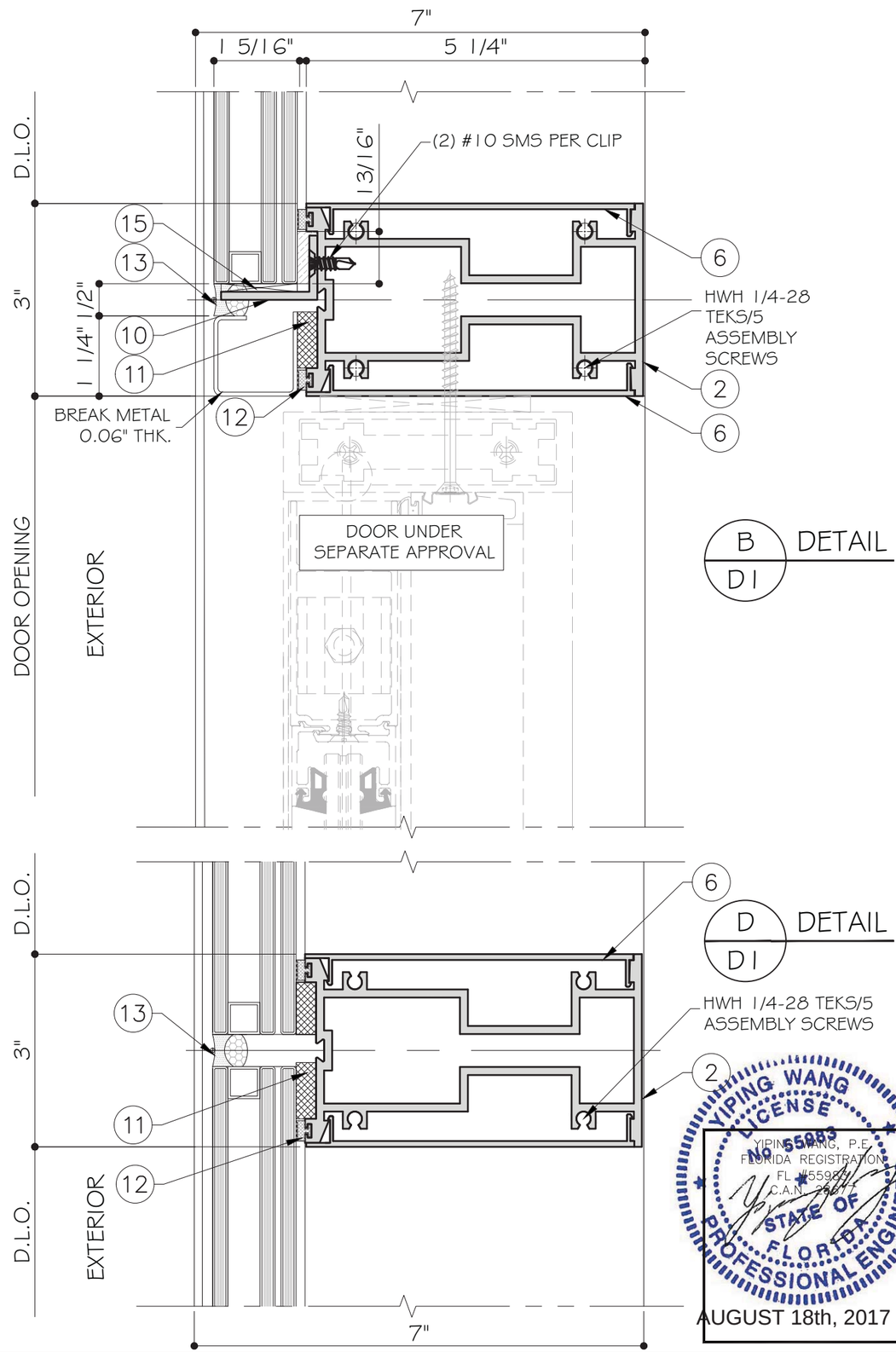

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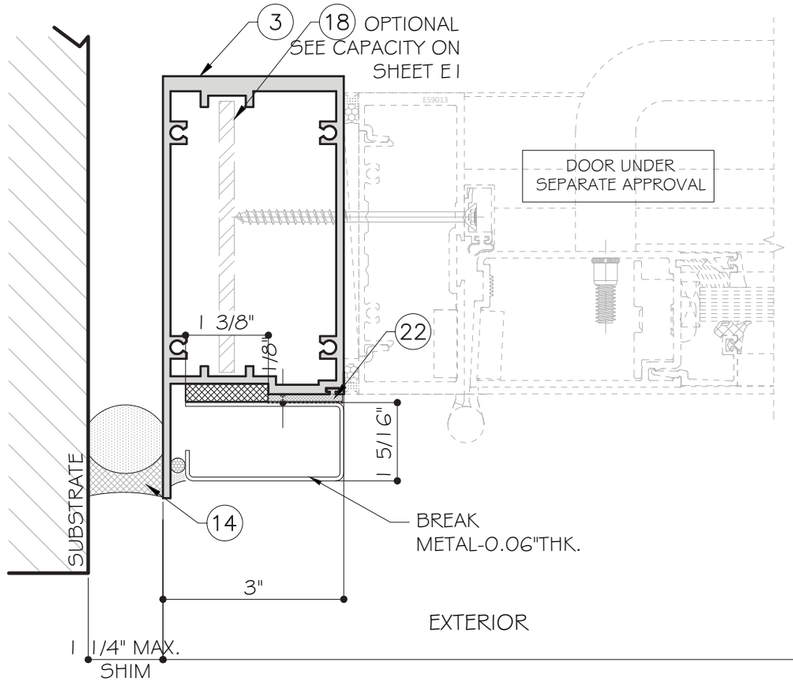
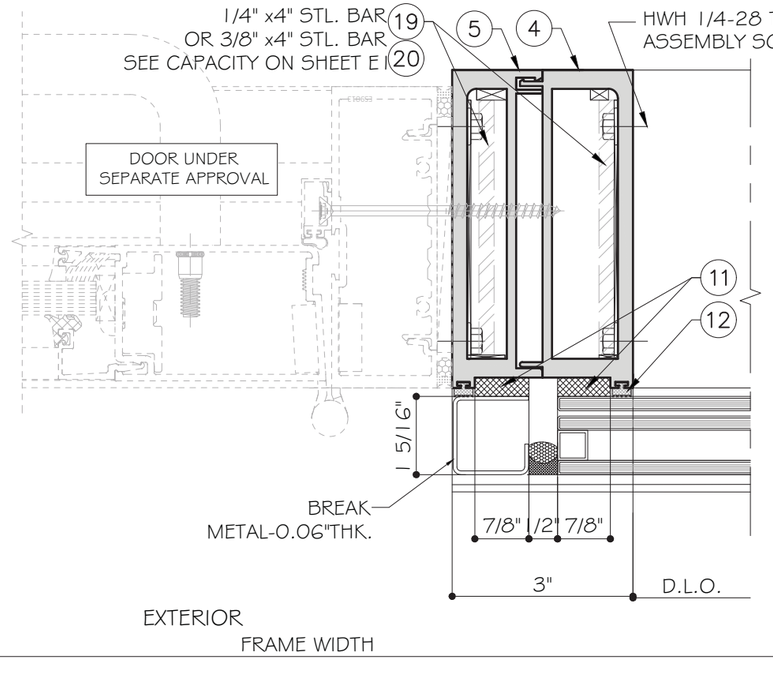
FL #55983
C.A.N. 26077
STATE OF FLORIDA PROFESSIONAL ENGINEER
AUGUST 18th, 2017



E D2 DETAIL



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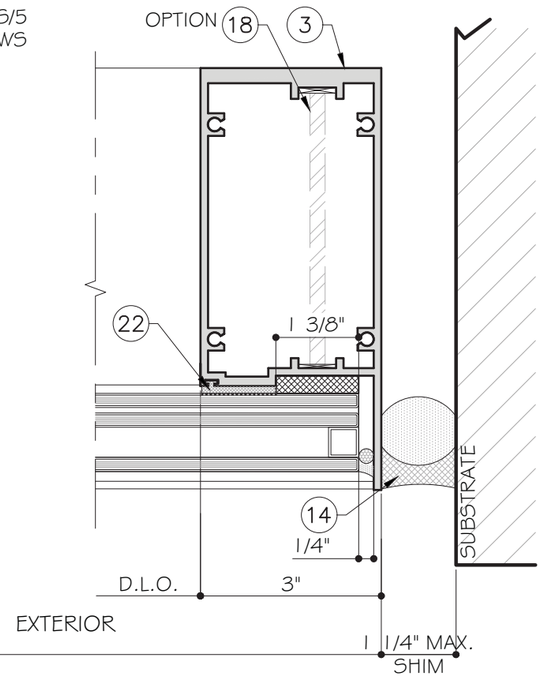
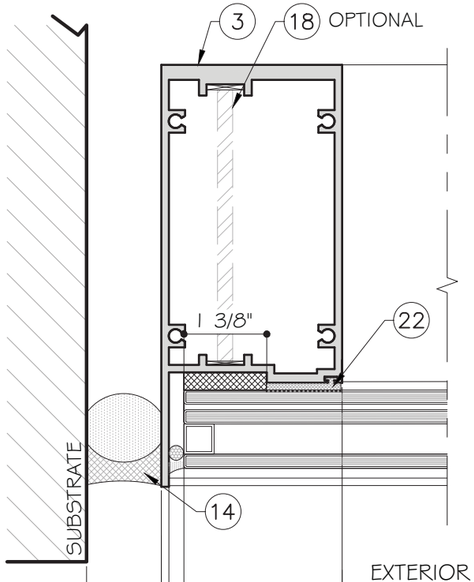
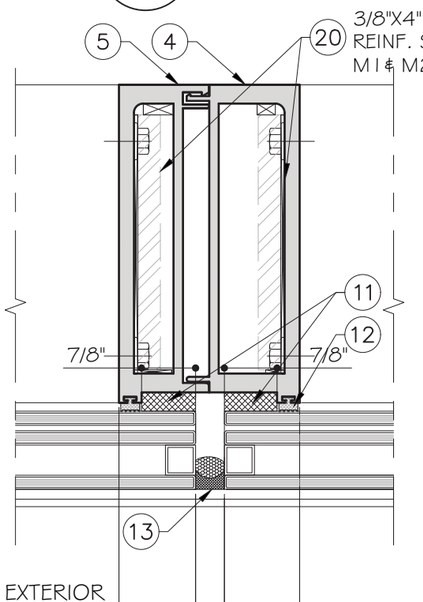


I D2 DETAIL



H D2 DETAIL
TYPICAL JAMB



G D2 DETAIL
TYPICAL MULLION

MAX. FRAME HEIGHT	JAMB GAP	
	MIN.	MIN.
102"	1/2"	1 1/4"
126"	5/8"	1 1/4"
150"	3/4"	1 1/4"

FRAME WIDTH

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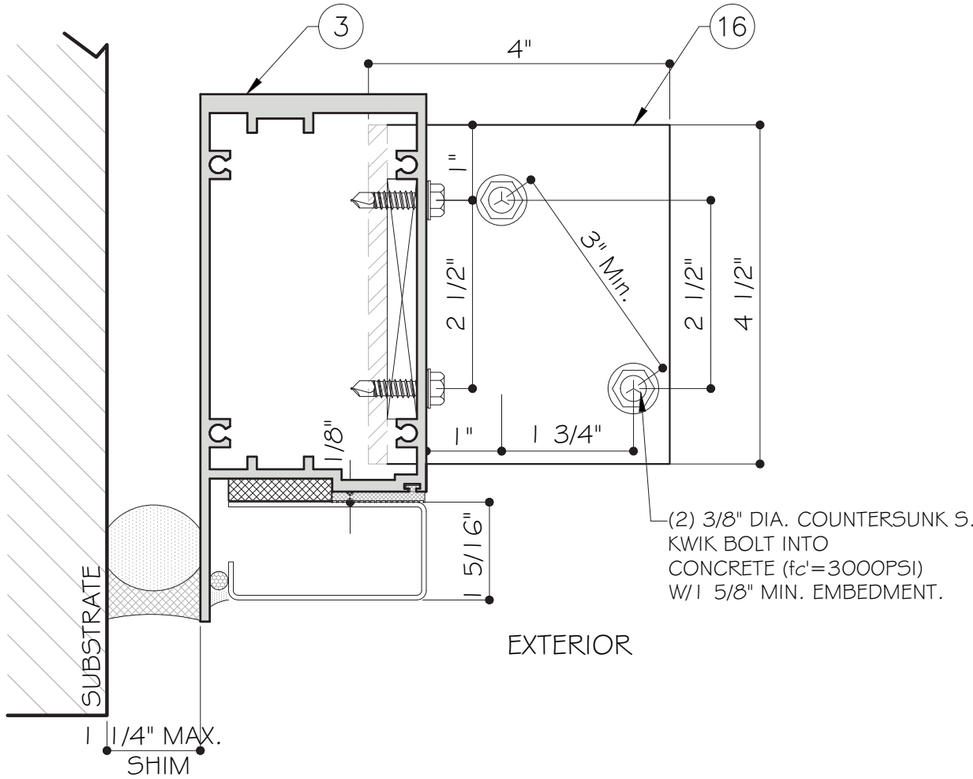
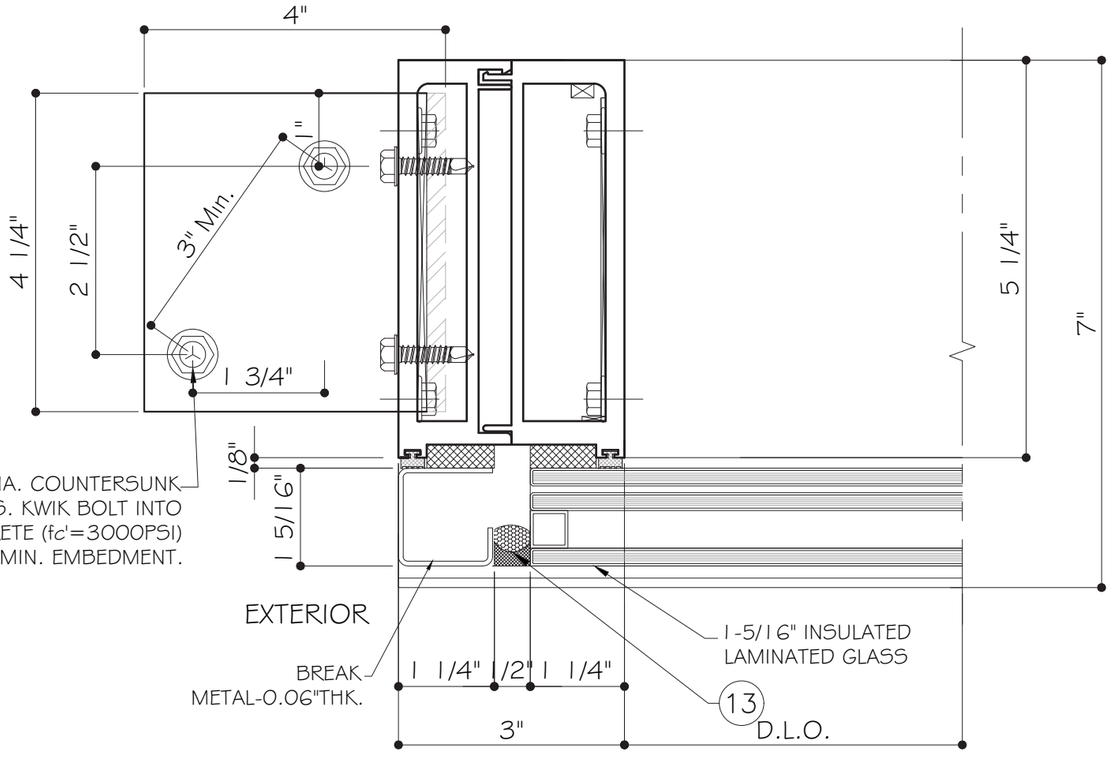
YIPING WANG
LICENSE
NO. 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 26017

AUGUST 18th, 2017



J / D3 DETAIL
DOOR JAMB ANCHOR DETAIL



K / D3 DETAIL
DOOR JAMB MULLION ANCHOR DETAIL

YIPING WANG LICENSE NO 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 25077

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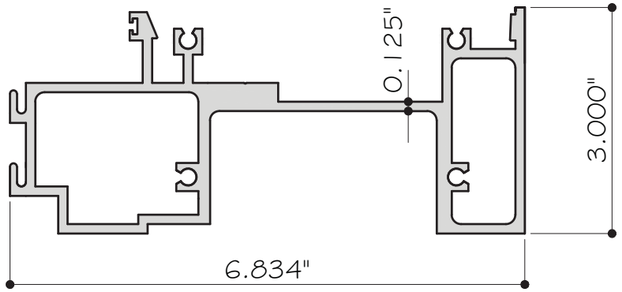
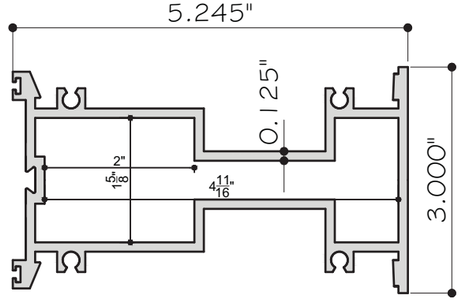
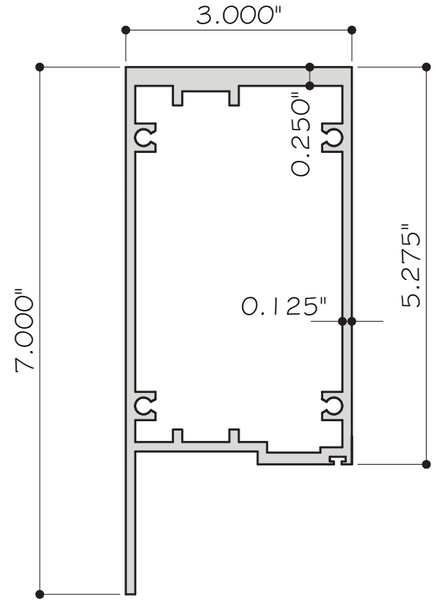


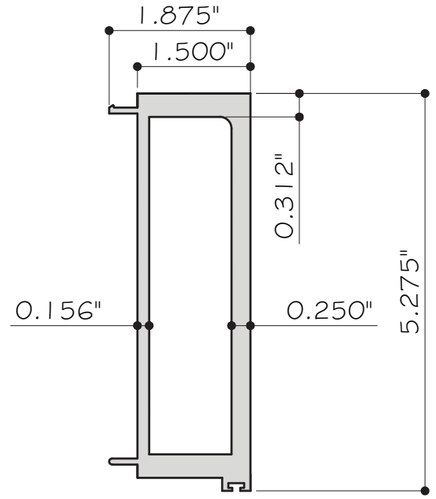
1 HEAD / SILL
3070-01 6005-T5



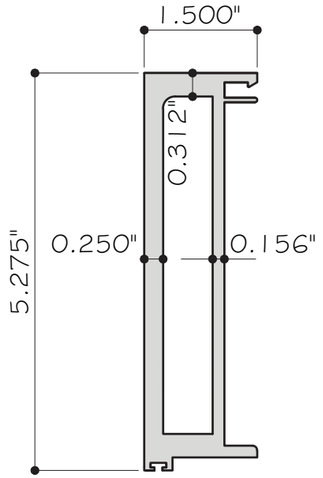
2 INTERMEDIATE
3070-02 6005-T5



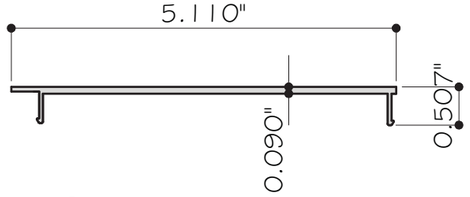
3 JAMB
3070-04 6005-T5



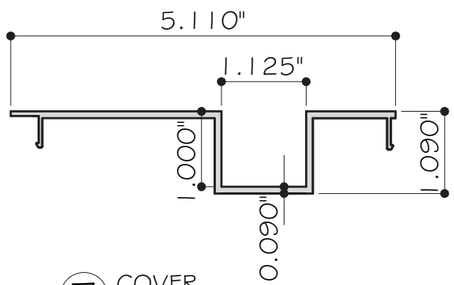
4 MALE MULLION
3070-05 6005-T5



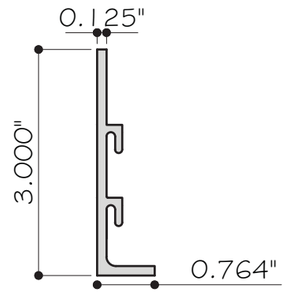
5 FEMALE MULLION
3070-06 6005-T5



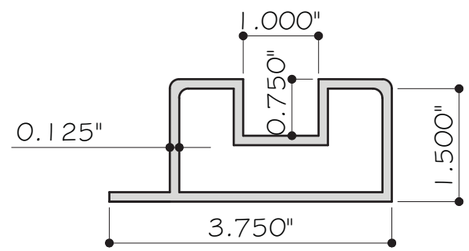
6 COVER
3070-07 6005-T5



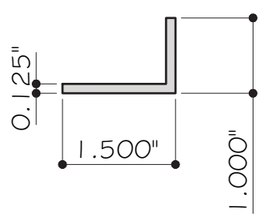
7 COVER
3070-08 6005-T5



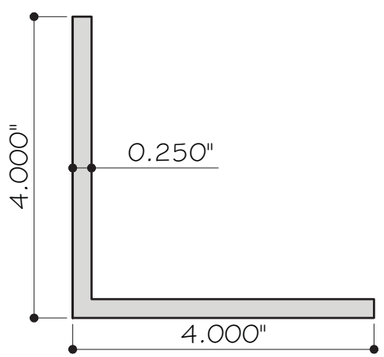
8 GLAZING BEAD
3070-09 6005-T5



9 SGD JAMB AGAINST FIXED
3070-10 6005-T5



10 ALUM. ANGLE
- 6005-T5



25 ALUM. ANGLE
7400-03 6005-T5

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PARTS

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YIPING WANG LICENSE No 55983 STATE OF FLORIDA PROFESSIONAL ENGINEER
YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 25077
AUGUST 18th, 2017

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	MANUF. / REMARKS
1	3070-01	HEAD / SILL	ALUM. 6005-T5	SAPA
2	3070-02	INTERMEDIATE	ALUM. 6005-T5	SAPA
3	3070-04	JAMB	ALUM. 6005-T5	SAPA
4	3070-05	MALE MULLION	ALUM. 6005-T5	SAPA
5	3070-06	FEMALE MULLION	ALUM. 6005-T5	SAPA
6	3070-07	COVER	ALUM. 6005-T5	SAPA
7	3070-08	COVER	ALUM. 6005-T5	SAPA
8	3070-09	GLAZING BEAD	ALUM. 6005-T5	SAPA
9	3070-10	SGD JAMB AGAINST FIXED	ALUM. 6005-T5	SAPA
10	-	ALUMINUM ANGLE 4" LG - SETTING CHAIR, (2) LOCATED AT THE W/4 OF THE UNIT	ALUM. 6005-T5	-
11	-	STRUCTURAL SEALANT DC983 OR DC995	SILICONE	DOW CORNING
12	9333	GLAZING GASKET / SPACER	SILICONE	TRELLEBORG
13	-	SILICONE SEAL DC795 & BACKER ROD	SILICONE	DOW CORNING
14	-	CONT. PERIMETER SEALANT DC795, DC983 OR DC995 AND BACKER ROD	SILICONE	DOW CORNING
15	SSB-85D	1/4" X 1/4" X 4" SETTING BLOCK	SILICONE	FRANK LOWE
16	-	4" X 4" X 1/4" X 4-1/2" LG. ALUM. ANGLE	ALUM. 6005-T5	-
17	-	3" X 3" X 1-1/2" LG. STEEL ANGLE	STEEL, A36 MIN.	-
18	-	1/4" X 4-1/2" STL. BAR REINF.	STEEL, A36 MIN.	-
19	-	1/4" X 4" STL. BAR REINF.	STEEL, A36 MIN.	-
20	-	3/8" X 4" STL. BAR REINF.	STEEL, A36 MIN.	-
22	3800-10	GLAZING GASKET / SPACER	STEEL, A36 MIN.	TRELLEBORG
23	E206	BULB GASKET WEATHER STRIPPING	STEEL, A36 MIN.	TRELLEBORG
24	9425-02-00	RAINSCREEN GASKET	STEEL, A36 MIN.	TRELLEBORG
25	-	GLAZING SPACER	ALUM.	ALU-PRO SRL
26	-	1/2" X 4" STL. BAR REINF.	STEEL, A36 MIN.	ALU-PRO SRL

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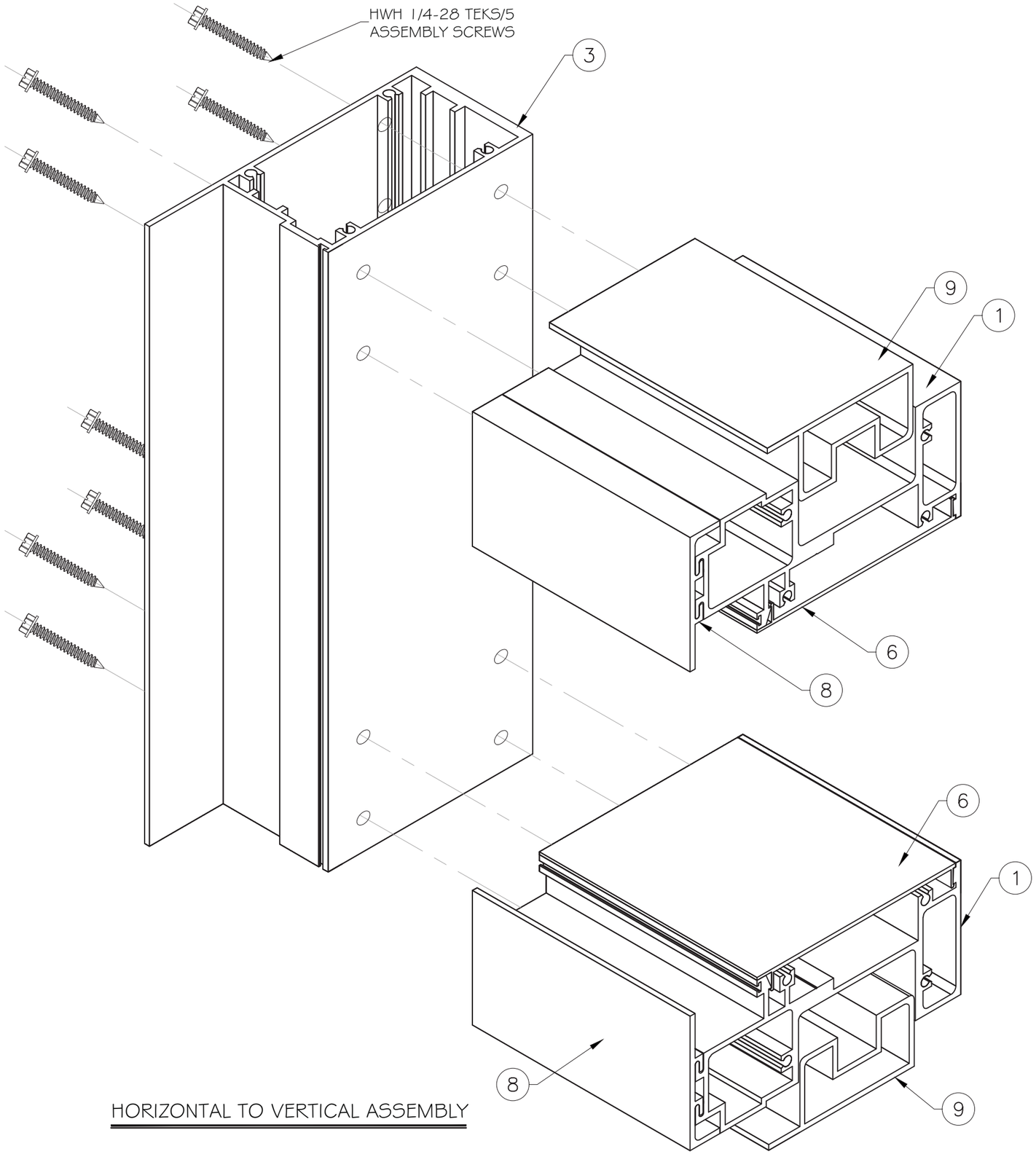

HORIZONTAL TO VERTICAL ASSEMBLY

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
8501 SW 124Ave.Ste.205A
MIAMI, FL. 33183
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www.MCYEngineering.com MCY.Engineering@Att.net

SYSTEM 3070 WINDOW WALL (SMI)

CONTINENTAL GLASS SYSTEMS, INC.
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Rev. No.	Date	Drawn By	Description

Drawn Date 07/24/2017

Scale

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YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 26077

AUGUST 18th, 2017