

# SERIES 3070 ALUMINUM WINDOW WALL LARGE MISSILE IMPACT (L.M.I. & S.M.I.)

**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 LARGE MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED.
- 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 AND M2. 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.

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

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

**LIMITATIONS OF USE**

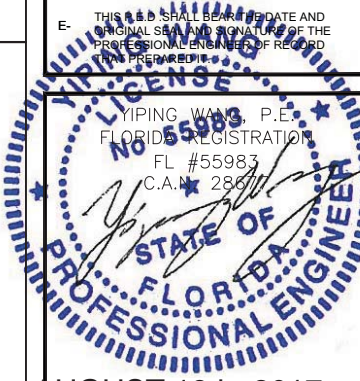
A. THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT, i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

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.



**YIPING WANG, P.E.**  
FLORIDA REGISTRATION  
FL #55983  
C.A.# 288

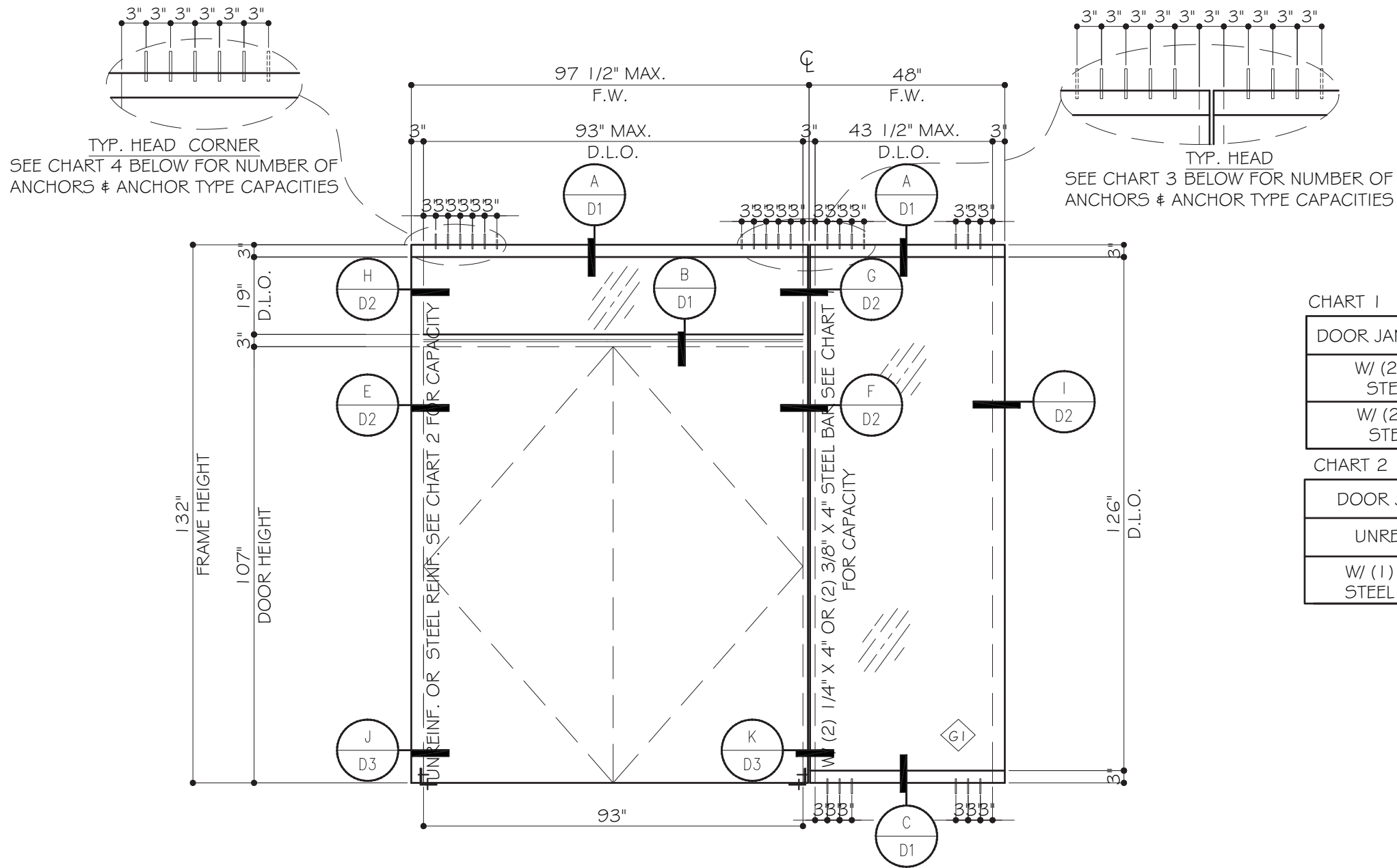
**AUGUST 18th, 2017**

SERIES 3070 ALUMINUM WINDOW WALL (LMI & SMI)

**CONTINENTAL GLASS SYSTEMS, INC.**  
325 WEST 74 PLACE, HIALEAH, FL 33014  
TEL: (305) 231-1101 FAX: (305) 231-1103

Rev. No.	Date	Drawn By	Description

Drawn Date 08/24/2017	Scale
DRAWING NO. <b>AD17-16</b>	
COVER	
Sheet No. 01 OF 15	



TYPICAL EXTERIOR ELEVATION  
WITH DOUBLE DOOR

CHART 1

DOOR JAMB MULLION	P <sub>dall.</sub> (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	P <sub>dall.</sub> (PSF)
UNREINFORCED	+ 105.8 - 105.8
W/ (1) 1/4"X4 1/2" STEEL BAR	+ 120.0 - 130.0

CHART 3

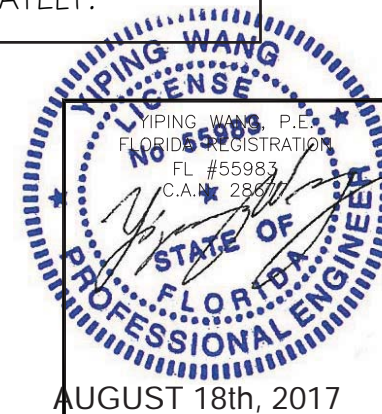
DOOR JAMB MULLION ANCHOR CHART AT TOP			
ANCHOR TYPE	# OF ANCHORS @ DOOR SIDE	# OF ANCHORS @ SIDELITE	CAPACITY (+/-PSF)
A	4	3	88.9
A	5	4	114.3
B	4	3	95.3
B	5	4	122.5
BB	4	3	111.7
BB	5	4	130.0
C	4	3	104.4
C	5	4	130.0

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

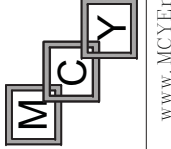
NOTE:  
DESIGN LOAD CAPACITY FOR SIZE SHOWN ON THIS ELEVATION. FOR DIFFERENT SIZE, TO BE ENGINEERED SEPARATELY.



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MCY ENGINEERING, INC.  
GLAZING CONSULTANTS

8501 SW 124 Ave, Ste. 205A  
MIAMI, FL 33183

P: 305.271.0117

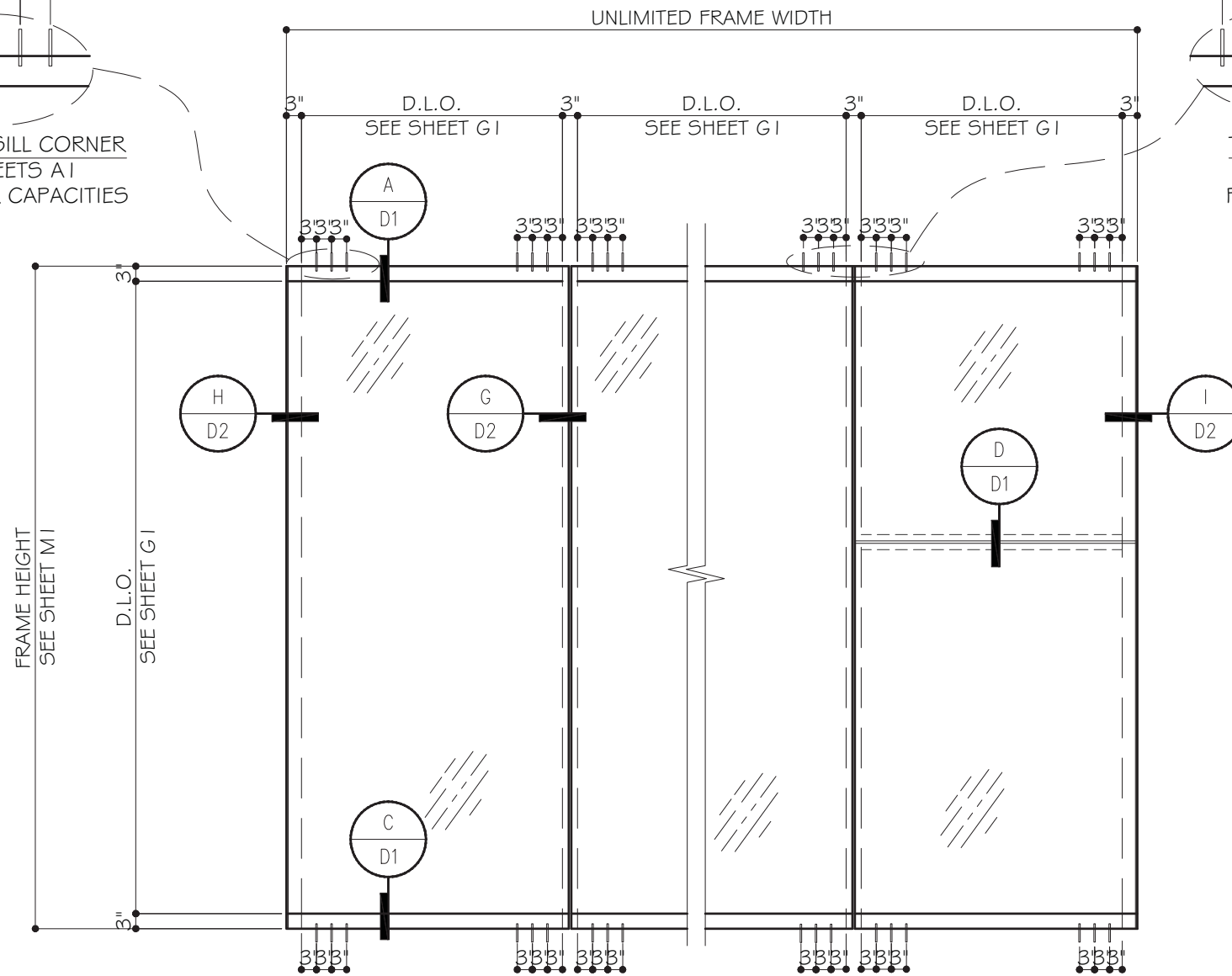
www.MCYEngineering.com MCY.Engineering@Att.net

Rev. No.	Date	Drawn By	Description

Drawn Date: 08/24/2017 Scale:      DRAWING NO. AD17-16

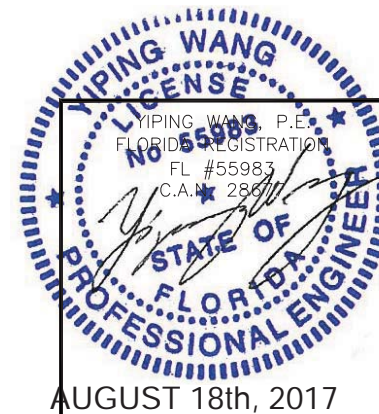
Sheet No. E1 02 OF 15

3" 3" 3" 3"  
 TYP. HEAD / SILL CORNER  
 SEE SHEETS A1  
 FOR ANCHOR CAPACITIES



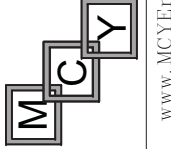
3" 3" 3" 3" 3" 3" 3" 3"  
 TYP. HEAD / SILL CORNER  
 SEE SHEETS A1  
 FOR ANCHOR CAPACITIES

**TYPICAL EXTERIOR ELEVATION**  
 SEE CHARTS ON SHEETS M1 AND M2 FOR  
 UNREINFORCED OR REINFORCED OPTIONS



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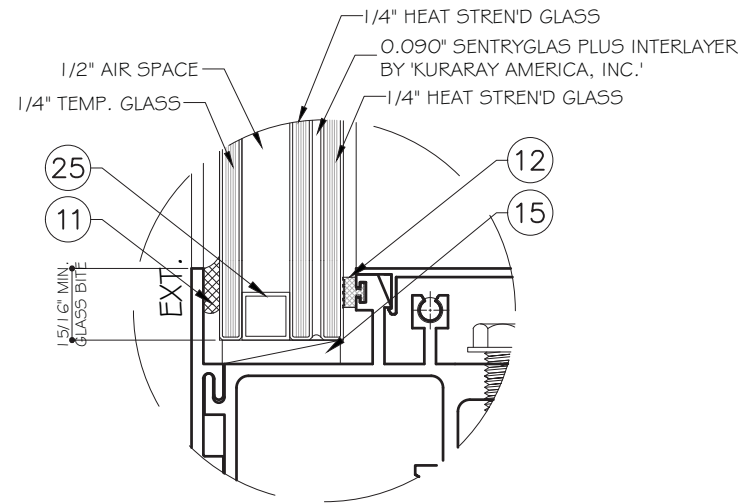
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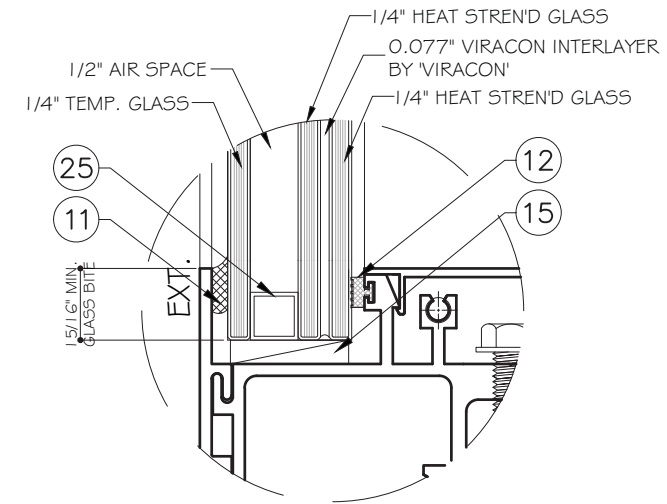
Drawn Date 08/24/2017	Scale
DRAWING NO. AD17-16	
Sheet No. E2	
03 OF 15	

GLASS CAPACITIES (PSF)

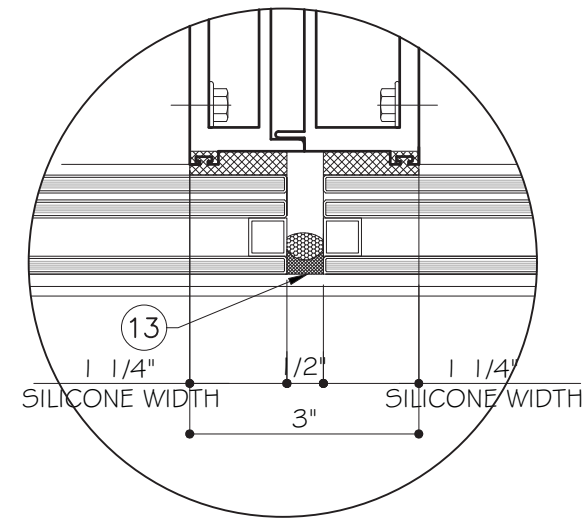
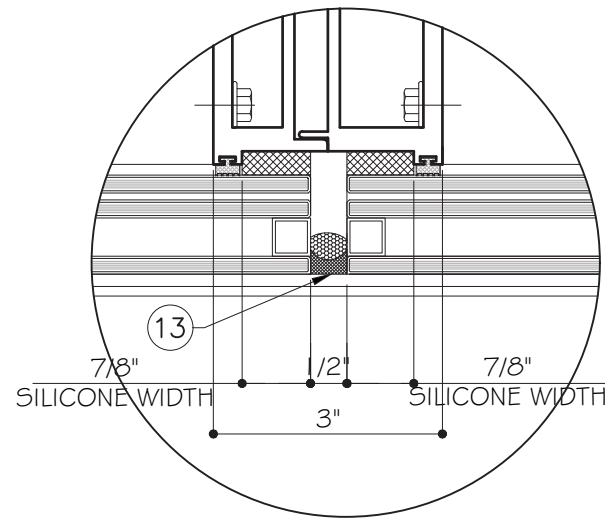
D.L.O. WIDTH (IN.)	D.L.O. HEIGHT (IN.)	GLASS TYPE 'G1' & 'G2'	
		(+/- PSF)	(+/- PSF)
51	90	120.0	130.0
57		120.0	130.0
63		120.0	130.0
69		120.0	130.0
45	96	120.0	130.0
51		120.0	130.0
57		120.0	130.0
63		120.0	130.0
66		120.0	130.0
45	102	120.0	130.0
51		120.0	130.0
57		120.0	130.0
61		120.0	130.0
39	108	120.0	130.0
45		120.0	130.0
51		120.0	130.0
57		120.0	130.0
39	114	120.0	130.0
45		120.0	130.0
51		120.0	130.0
55		120.0	130.0
33	120	120.0	130.0
39		120.0	130.0
45		120.0	130.0
51		120.0	130.0
53		120.0	130.0
33	126	120.0	130.0
39		120.0	130.0
45		120.0	130.0
50		120.0	130.0
33	132	120.0	130.0
39		120.0	130.0
45		120.0	130.0
48		120.0	130.0
33	138	120.0	130.0
39		120.0	130.0
45		120.0	130.0
33	144	120.0	130.0
39		120.0	130.0
45		120.0	130.0



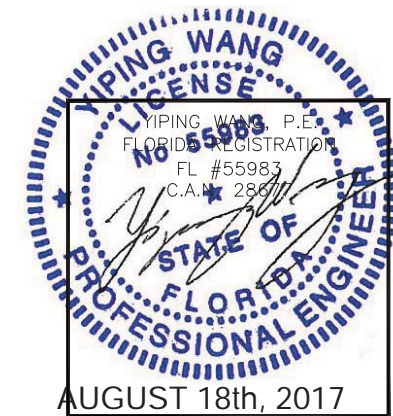
GLASS TYPE 'G1'  
1-5/16" NOMINAL OVERALL



GLASS TYPE 'G2'  
1-5/16" NOMINAL OVERALL



MULLION C-C WIDTH (IN.)	CAPACITY DUE TO SILICONE	
	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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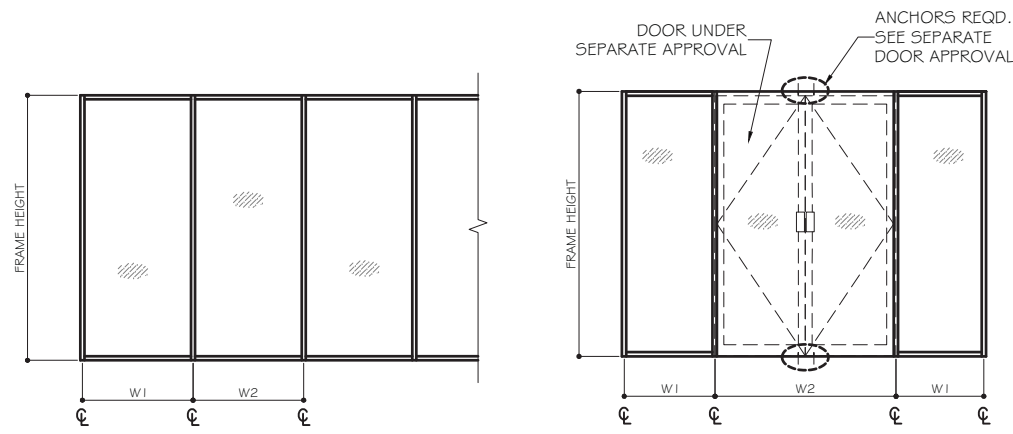
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08/24/2017					
DRAWING NO. AD17-16					
Sheet No. 04 OF 15					

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

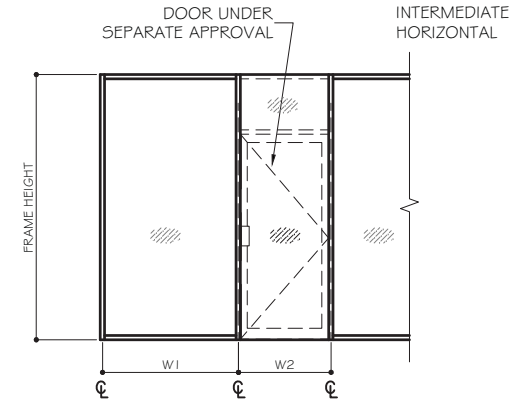
DESIGN LOAD CAPACITY WITHOUT HORIZONTAL- PSF					
MULLION DIMENSION		MULLION (M2)		JAMB (J1)	
MULLION WIDTH (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
42	96	120.0	130.0	120.0	130.0
48		120.0	130.0	120.0	130.0
54		120.0	130.0	120.0	130.0
60		120.0	130.0	120.0	130.0
66		120.0	130.0	120.0	130.0
72		120.0	130.0	120.0	130.0
42	102	120.0	130.0	120.0	130.0
48		120.0	130.0	120.0	130.0
54		120.0	130.0	120.0	130.0
60		120.0	130.0	120.0	130.0
66		120.0	130.0	120.0	130.0
72		120.0	130.0	120.0	130.0
36	108	120.0	130.0	120.0	130.0
42		120.0	130.0	120.0	130.0
48		120.0	130.0	120.0	130.0
54		120.0	130.0	120.0	130.0
60		120.0	130.0	120.0	130.0
66		120.0	130.0	120.0	130.0
36	114	120.0	130.0	120.0	130.0
42		120.0	130.0	120.0	130.0
48		120.0	130.0	120.0	130.0
54		120.0	130.0	120.0	130.0
60		120.0	130.0	120.0	130.0
66		120.0	130.0	120.0	130.0
36	120	120.0	130.0	120.0	130.0
42		120.0	130.0	120.0	130.0
48		120.0	130.0	120.0	130.0
54		120.0	130.0	120.0	130.0
60		120.0	130.0	120.0	130.0
66		120.0	130.0	120.0	130.0
30	126	120.0	130.0	120.0	130.0
36		120.0	130.0	120.0	130.0
42		120.0	130.0	120.0	130.0
48		120.0	130.0	120.0	130.0
54		120.0	130.0	120.0	130.0
60		120.0	130.0	120.0	130.0
30	132	120.0	130.0	120.0	130.0
36		120.0	128.0	120.0	128.0
42		120.0	130.0	120.0	130.0
48		120.0	130.0	120.0	130.0
54		120.0	130.0	120.0	130.0
60		120.0	130.0	120.0	130.0
30	138	120.0	130.0	120.0	130.0
36		120.0	130.0	120.0	130.0
42		120.0	130.0	120.0	130.0
48		120.0	130.0	120.0	130.0
54		120.0	130.0	120.0	130.0
60		120.0	130.0	120.0	130.0
30	144	120.0	130.0	120.0	130.0
36		120.0	130.0	120.0	130.0
42		120.0	130.0	120.0	130.0
48		120.0	129.0	120.0	120.0
30	150	120.0	130.0	120.0	130.0
36		120.0	130.0	120.0	130.0
42		120.0	129.0	120.0	125.0

\* FOR JAMB TYPE (J2) DESIGN LOAD UP TO -130 PSF

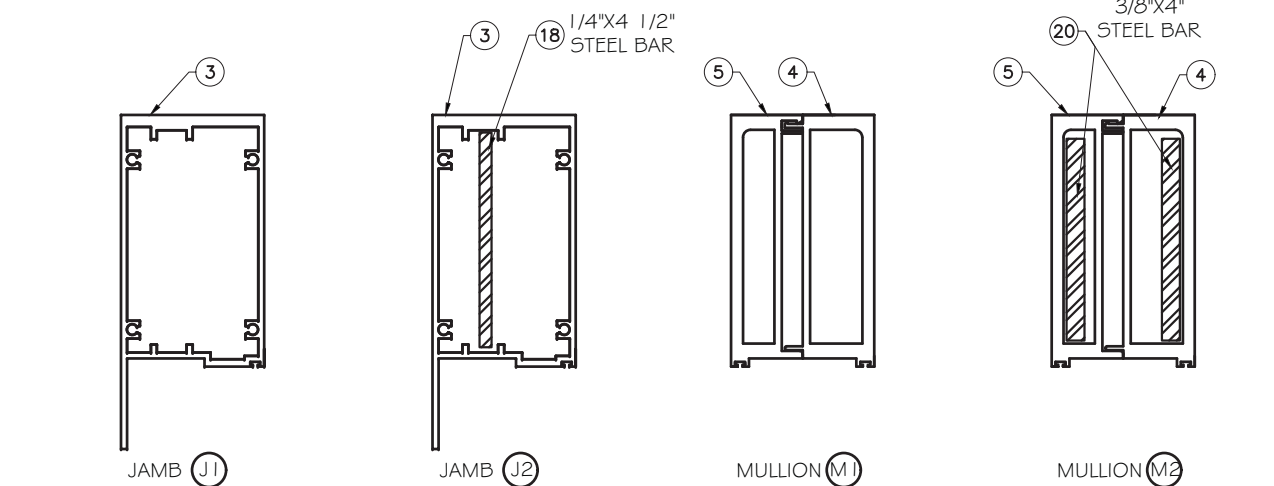


WIDTH (W) = W1 AT JAMB  
 WIDTH (W) =  $\frac{W1 + W2}{2}$  AT MULLION

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



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



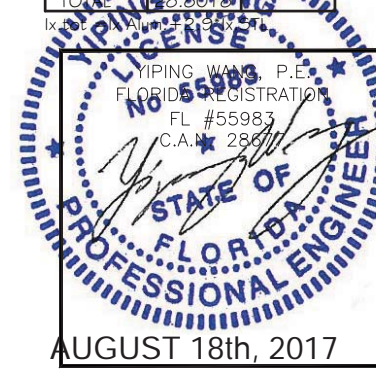
J1	Ix IN^4	Sx IN^3
3070-04	14.0081	3.1798

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

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

M2	Ix IN^4	Sx IN^3
3070-05	9.0965	3.3871
3070-06	8.1053	3.0071
(2) STEEL	4.0000	1.0000
TOTAL	21.2018	7.3942



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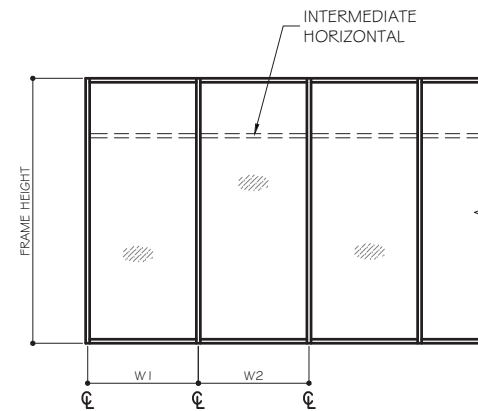
Rev. No.	Date	Drawn By	Description

Drawn Date: 08/24/2017 Scale:   
 DRAWING NO. AD17-16  
 Sheet No. 05 OF 15

DESIGN LOAD CAPACITY WITH HORIZONTAL- PSF			
MULLION DIMENSION		MULLION (M)	
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

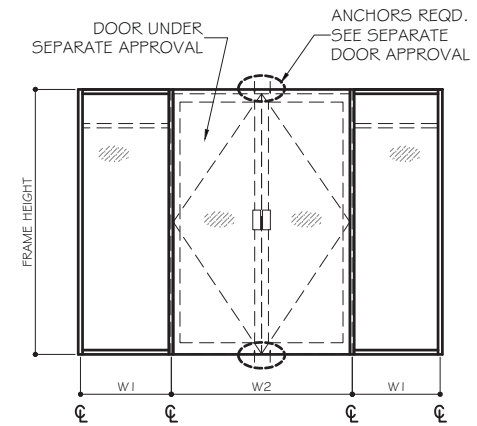
DESIGN LOAD CAPACITY WITH HORIZONTAL- PSF					
MULLION DIMENSION		MULLION (M2)		JAMB (J1)	
MULLION WIDTH (IN)	MULLION HEIGHT (IN)	EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
42	96	120.0	130.0	120.0	130.0
48		120.0	130.0	120.0	130.0
54		120.0	130.0	120.0	130.0
60		120.0	130.0	120.0	130.0
66		120.0	130.0	120.0	130.0
72		120.0	130.0	120.0	130.0
42	102	120.0	130.0	120.0	130.0
48		120.0	130.0	120.0	130.0
54		120.0	130.0	120.0	130.0
60		120.0	130.0	120.0	130.0
66	108	120.0	130.0	120.0	130.0
36		120.0	130.0	120.0	130.0
42		120.0	130.0	120.0	130.0
48		120.0	130.0	120.0	130.0
54	114	120.0	130.0	120.0	130.0
60		120.0	130.0	120.0	130.0
66		120.0	130.0	120.0	130.0
36	120	120.0	130.0	120.0	130.0
42		120.0	130.0	120.0	130.0
48		120.0	130.0	120.0	130.0
54	126	120.0	130.0	120.0	130.0
30		120.0	130.0	120.0	130.0
36		120.0	130.0	120.0	130.0
30	132	120.0	130.0	120.0	130.0
36		120.0	128.0	120.0	128.0
42		120.0	130.0	120.0	130.0
48	138	120.0	130.0	120.0	130.0
30		120.0	130.0	120.0	130.0
36		120.0	130.0	120.0	130.0
30	144	120.0	130.0	120.0	130.0
36		120.0	130.0	120.0	130.0
42		120.0	130.0	120.0	130.0
48		120.0	123.0	120.0	120.0
30	150	120.0	130.0	120.0	130.0
36		120.0	130.0	120.0	130.0
42		120.0	125.0	120.0	121.0

\* FOR JAMB TYPE (J2) DESIGN LOAD UP TO -130 PSF

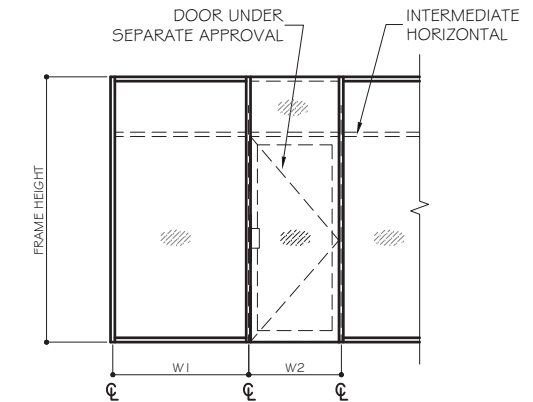


WIDTH (W) = W1  
AT JAMB

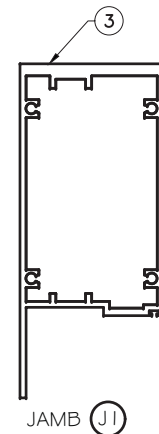
WIDTH (W) =  $\frac{W1 + W2}{2}$   
AT MULLION



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

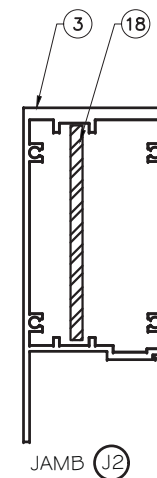


WIDTH (W) =  $\frac{W1 + W2}{2}$   
AT MULLION

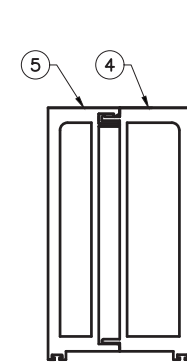


J1	lx IN^4	Sx IN^3
3070-04	14.0081	3.1798
TOTAL	19.5136	0.8438

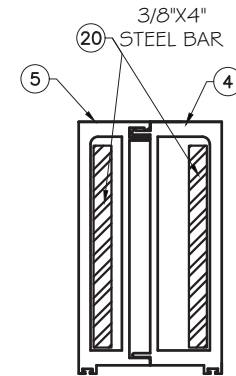
lx.tot = lx Alum. + 2.9\*lx.STL



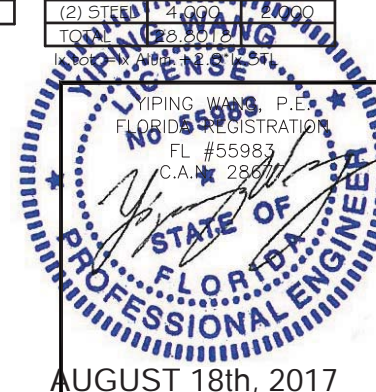
J1	lx IN^4	Sx IN^3
3070-04	14.0081	3.1798
STEEL	1.8984	0.8438
TOTAL	19.5136	0.8438



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



M2	lx IN^4	Sx IN^3
3070-05	9.0965	3.3871
3070-06	8.1053	3.0071
(2) STEEL	4.0000	1.0000
TOTAL	21.2018	7.3942



SERIES 3070 ALUMINUM WINDOW WALL (LMI & SMI)

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Rev. No.	Date	Drawn By	Description

Drawn Date: 08/24/2017 Scale:      Drawing No. AD17-16

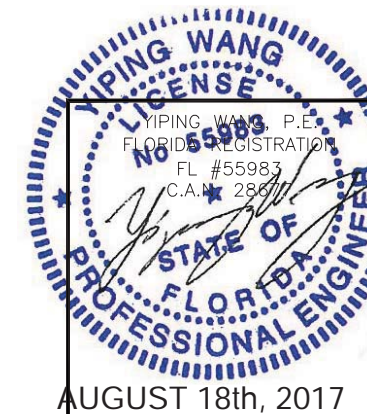
Sheet No. 06 OF 15

ANCHOR CAPACITY - PSF					
NOMINAL DIMENSION		A3	A4	C3	C4
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
48	90	130.0	130.0	130.0	130.0
54		130.0	130.0	130.0	130.0
60		124.8	130.0	130.0	130.0
66		113.5	130.0	130.0	130.0
72		104.0	130.0	122.1	130.0
48	96	130.0	130.0	130.0	130.0
54		130.0	130.0	130.0	130.0
60		117.0	130.0	130.0	130.0
66		106.4	130.0	124.9	130.0
72		97.5	130.0	114.5	130.0
48	102	130.0	130.0	130.0	130.0
54		122.4	130.0	130.0	130.0
60		110.1	130.0	129.3	130.0
66		100.1	130.0	117.6	130.0
72		91.8	122.4	107.8	130.0
42	108	130.0	130.0	130.0	130.0
48		130.0	130.0	130.0	130.0
54		115.6	130.0	130.0	130.0
60		104.0	130.0	122.1	130.0
66		94.5	126.1	111.0	130.0
42	114	130.0	130.0	130.0	130.0
48		123.2	130.0	130.0	130.0
54		109.5	130.0	128.6	130.0
60		98.5	130.0	115.7	130.0
66		89.6	119.4	105.2	130.0
36	120	130.0	130.0	130.0	130.0
42		130.0	130.0	130.0	130.0
48		117.0	130.0	130.0	130.0
54		104.0	130.0	122.1	130.0
60		93.6	124.8	109.9	130.0
36	126	130.0	130.0	130.0	130.0
42		127.3	130.0	130.0	130.0
48		111.4	130.0	130.0	130.0
54		99.0	130.0	116.3	130.0
60		89.1	118.9	104.7	130.0
36	132	130.0	130.0	130.0	130.0
42		121.6	130.0	130.0	130.0
48		106.4	130.0	124.9	130.0
54		94.5	126.1	111.0	130.0

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

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



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**CONTINENTAL GLASS SYSTEMS, INC.**  
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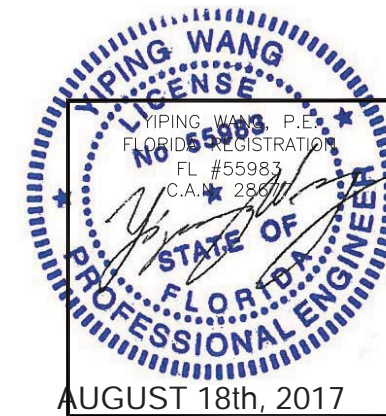
Drawn Date	Scale	Rev. No.	Date	Drawn By	Description
08/24/2017					
DRAWING NO. AD17-16					
Sheet No. A1					
07 OF 15					

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	130.0	130.0	130.0	130.0
54		130.0	130.0	130.0	130.0
60		130.0	130.0	130.0	130.0
66		121.6	130.0	130.0	130.0
72		111.5	130.0	130.0	130.0
48	96	130.0	130.0	130.0	130.0
54		130.0	130.0	130.0	130.0
60		125.4	130.0	130.0	130.0
66		114.0	130.0	130.0	130.0
72		104.5	130.0	122.5	130.0
48	102	130.0	130.0	130.0	130.0
54		130.0	130.0	130.0	130.0
60		118.0	130.0	130.0	130.0
66		107.3	130.0	125.8	130.0
72		98.4	130.0	115.3	130.0
42	108	130.0	130.0	130.0	130.0
48		130.0	130.0	130.0	130.0
54		123.9	130.0	130.0	130.0
60		111.5	130.0	130.0	130.0
66		101.3	130.0	118.8	130.0
42	114	130.0	130.0	130.0	130.0
48		130.0	130.0	130.0	130.0
54		117.3	130.0	130.0	130.0
60		105.6	130.0	123.8	130.0
66		96.0	128.0	112.5	130.0
36	120	130.0	130.0	130.0	130.0
42		130.0	130.0	130.0	130.0
48		125.4	130.0	130.0	130.0
54		111.5	130.0	130.0	130.0
60		100.3	130.0	117.6	130.0
36	126	130.0	130.0	130.0	130.0
42		130.0	130.0	130.0	130.0
48		119.4	130.0	130.0	130.0
54		106.2	130.0	124.4	130.0
60		95.5	127.4	112.0	130.0
36	132	130.0	130.0	130.0	130.0
42		130.0	130.0	130.0	130.0
48		114.0	130.0	130.0	130.0
54		101.3	130.0	118.8	130.0

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	130.0	130.0	130.0	130.0
42		124.6	130.0	130.0	130.0
48		109.0	130.0	127.8	130.0
54		96.9	129.2	113.6	130.0
55		95.2	126.9	111.6	130.0
36	144	130.0	130.0	130.0	130.0
42		119.4	130.0	130.0	130.0
48		104.5	130.0	122.5	130.0
30	150	130.0	130.0	130.0	130.0
36		130.0	130.0	130.0	130.0
42		114.7	130.0	130.0	130.0

TYPICAL ANCHORS: SEE SHEET A2 FOR DESCRIPTION

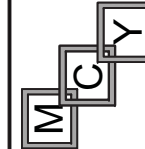
- B3 -(3) ANCHORS TYPE "B" AT EACH SIDE OF JAMB/MULLION
- B4 -(4) ANCHORS TYPE "B" AT EACH SIDE OF JAMB/MULLION
- BB3 -(3) ANCHORS TYPE "BB" AT EACH SIDE OF JAMB/MULLION
- BB4 -(4) ANCHORS TYPE "BB" AT EACH SIDE OF JAMB/MULLION



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GLAZING CONSULTANTS

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MIAMI, FL 33183

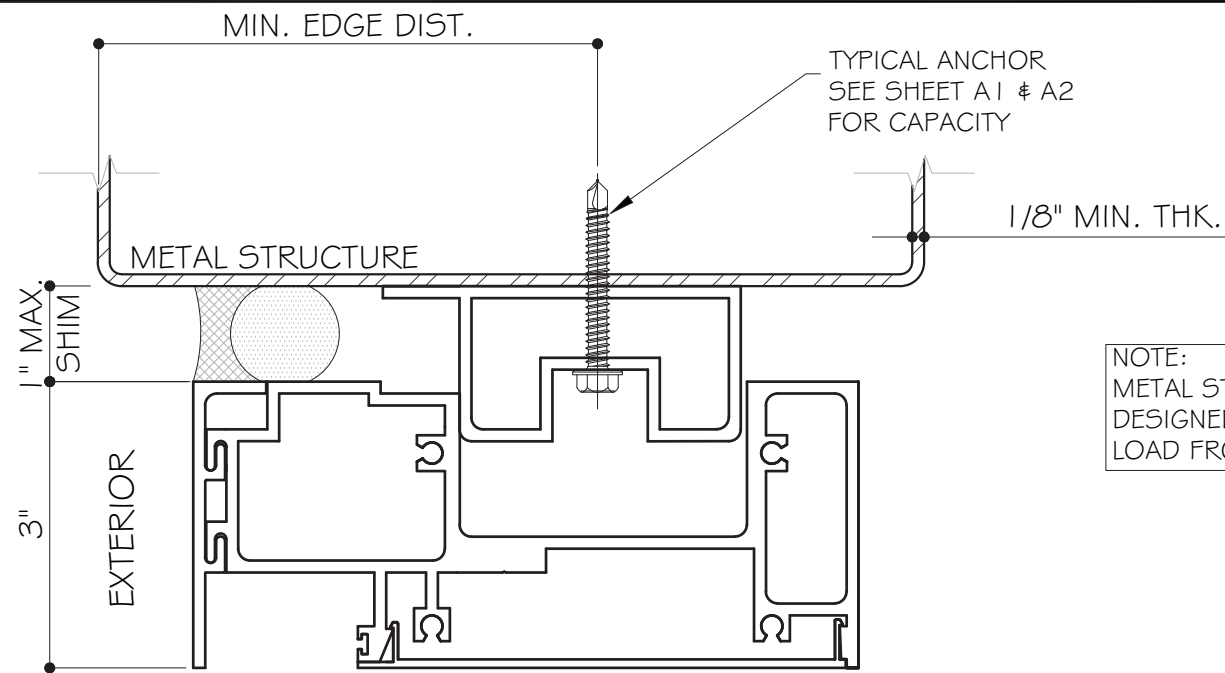
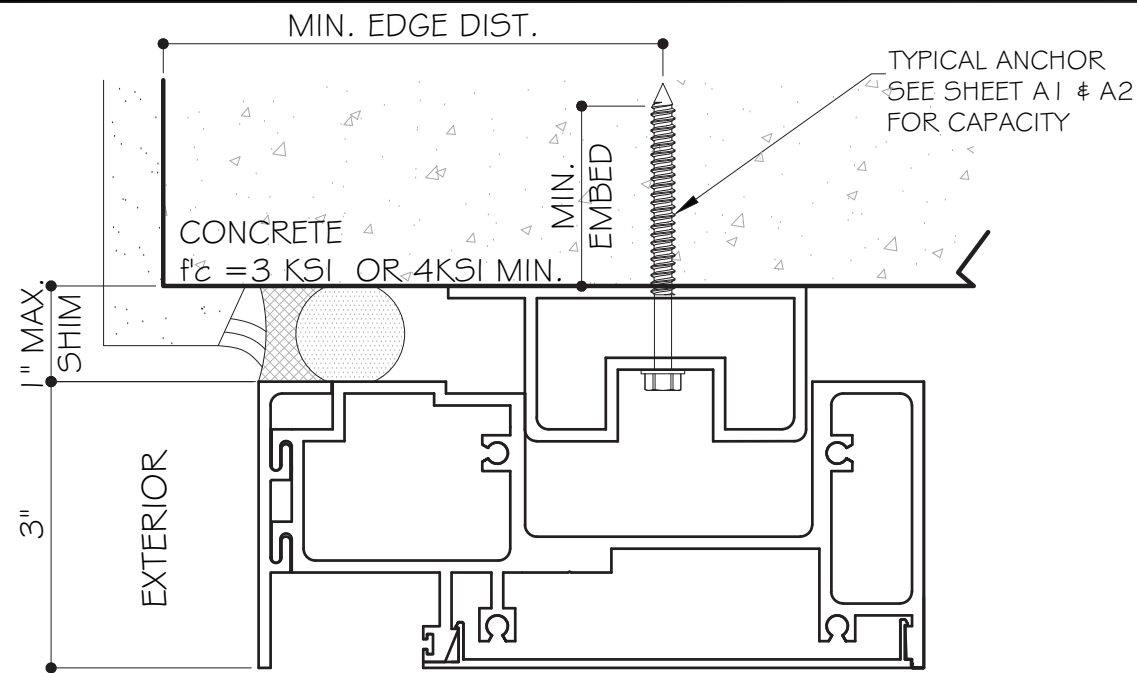
P: 305.271.0117

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Drawn Date	Scale
08/24/2017	
Rev. No.	Date
Drawn By	Description

DRAWING NO.
AD17-16
Sheet No.
08 OF 15





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 ( $F_u = 177$  KSI,  $F_y = 155$  KSI)  
1-3/4" MIN. EMBED DIRECTLY INTO  $f'_c=3$  KSI MIN. CONCRETE  
2 1/2" MIN. EDGE DISTANCE  
@ 3" MIN. O.C.

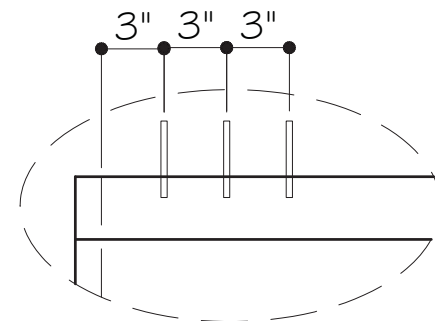
TYPE "B": 5/16" DIA. ULTRACON BY ELCO ( $F_u = 177$  KSI,  $F_y = 155$  KSI)  
1 3/4" MIN. EMBED DIRECTLY INTO  $f'_c=3$  KSI MIN. CONCRETE  
3" MIN. EDGE DISTANCE  
@ 3" MIN. O.C.

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

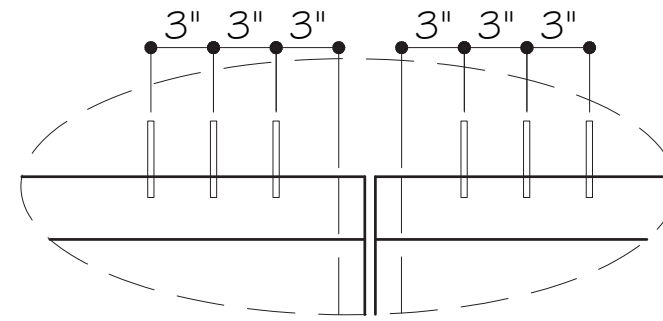
TYPE "C": #14 SMS (GRADE 2) ( $F_u=74$  KSI,  $F_y=57$  KSI)  
OR 1/4" TEKS (GRADE 5-SELF DRILLING SCREW) ( $F_u=120$  KSI,  $F_y=92$  KSI)  
INTO 1/8" MIN. THK. ALUMINUM STRUCTURE (6063-T5)  
3" O.C.

-SEALANTS:

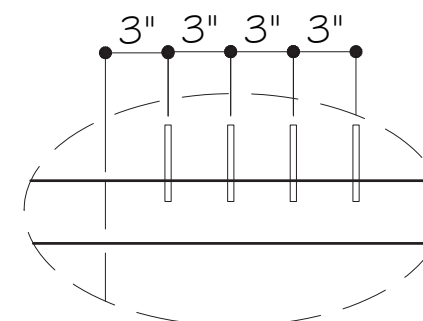
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER  
GLAZING BEAD TO FRAME INSTALLATION FASTENERS SEALED WITH  
SILICONE SEALANT.



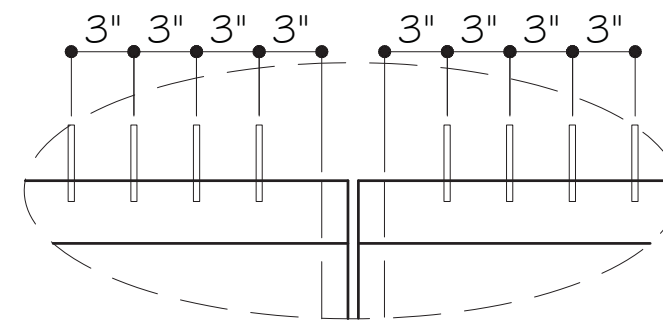
HEAD/SILL ANCHOR TYPE  
"A3", "B3", "BB3", "C3"  
(3) ANCHORS AT EACH SIDE OF  
JAMB



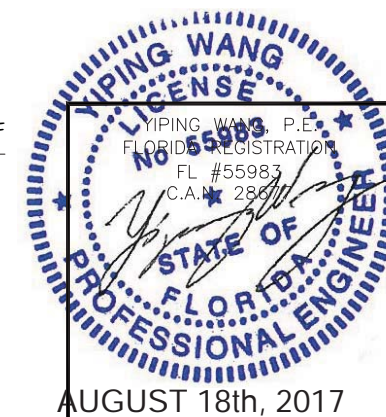
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(3) ANCHORS AT EACH SIDE OF  
MULLION



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

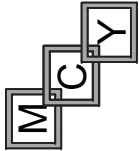


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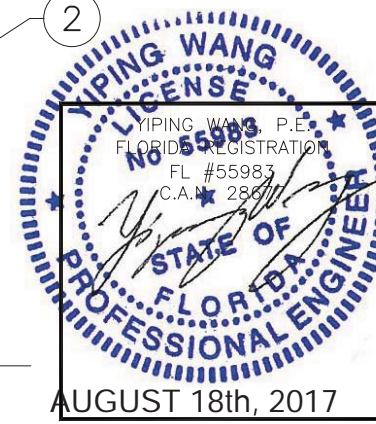
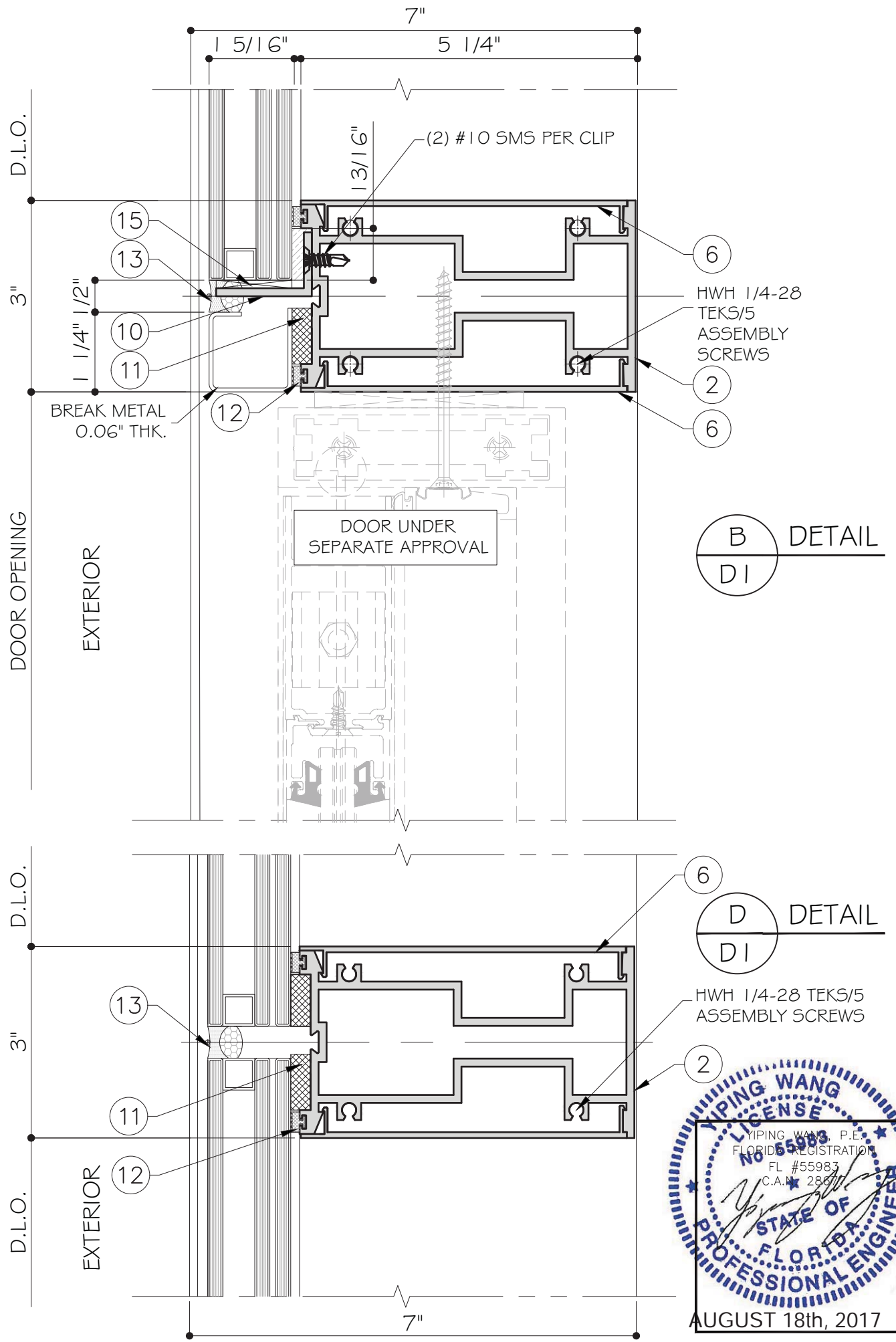
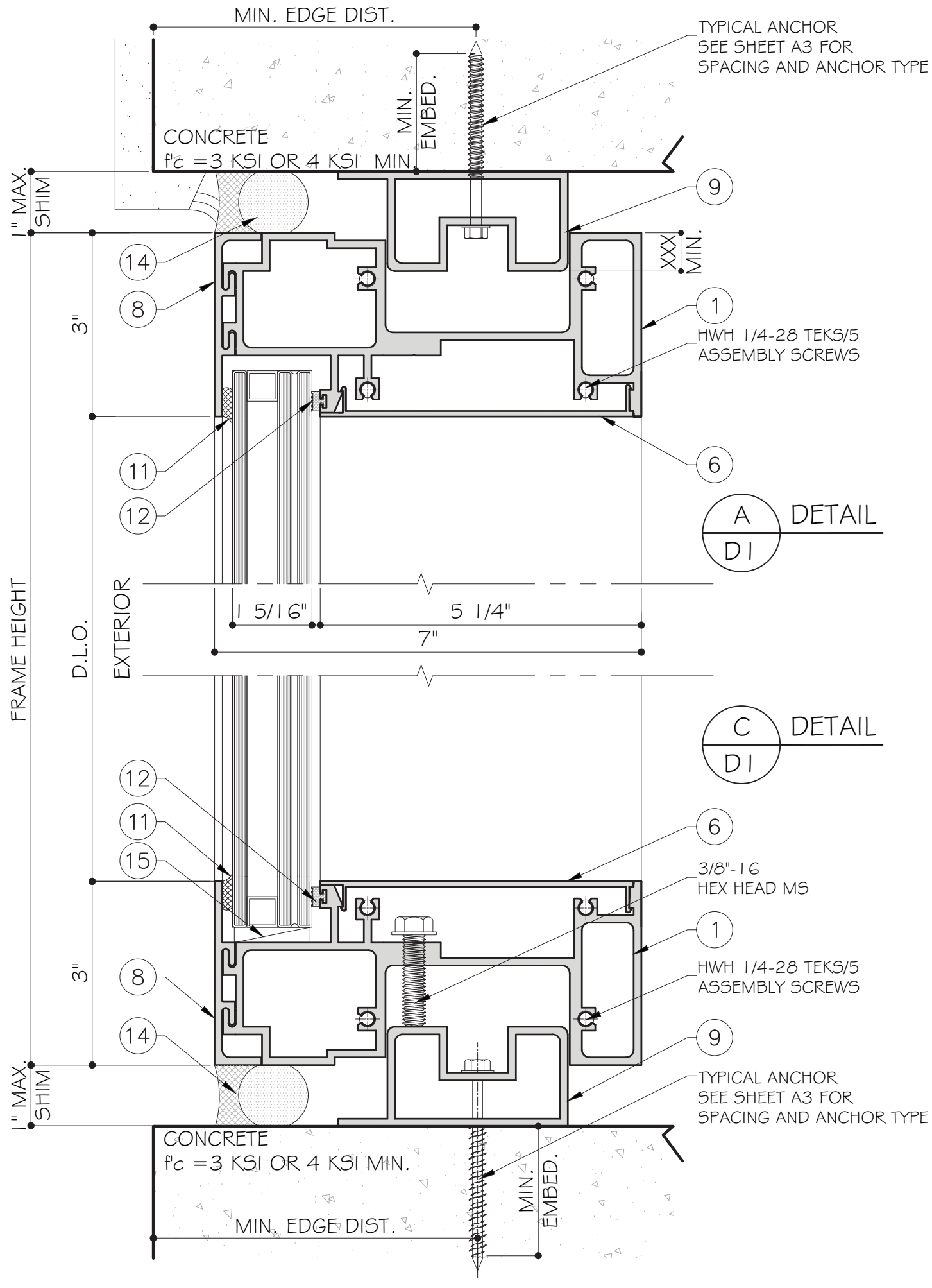
Rev. No.	Date	Drawn By	Description

Drawn Date: 08/24/2017 Scale:      Drawing No.:

AD17-16

A3

Sheet No. 09 OF 15



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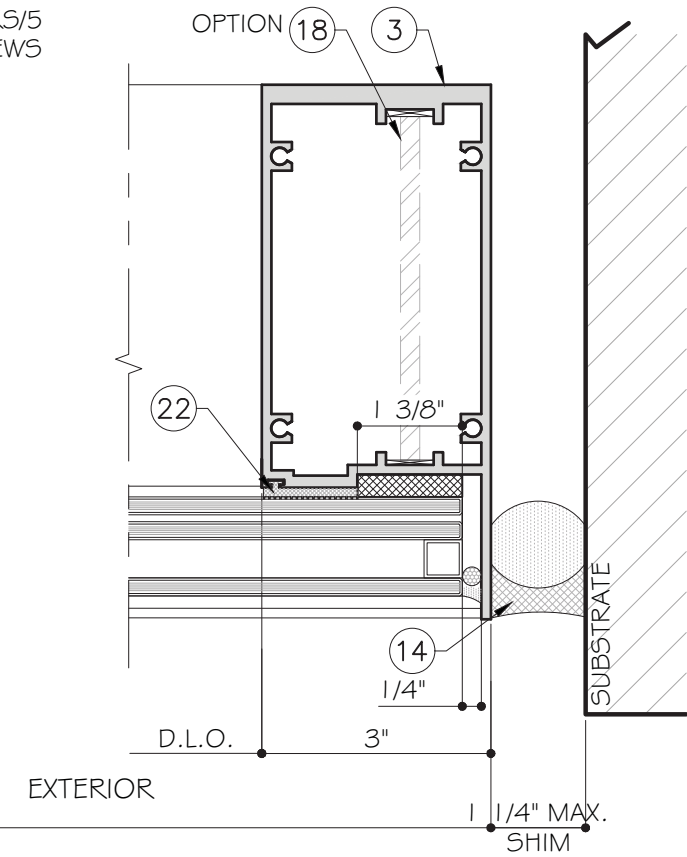
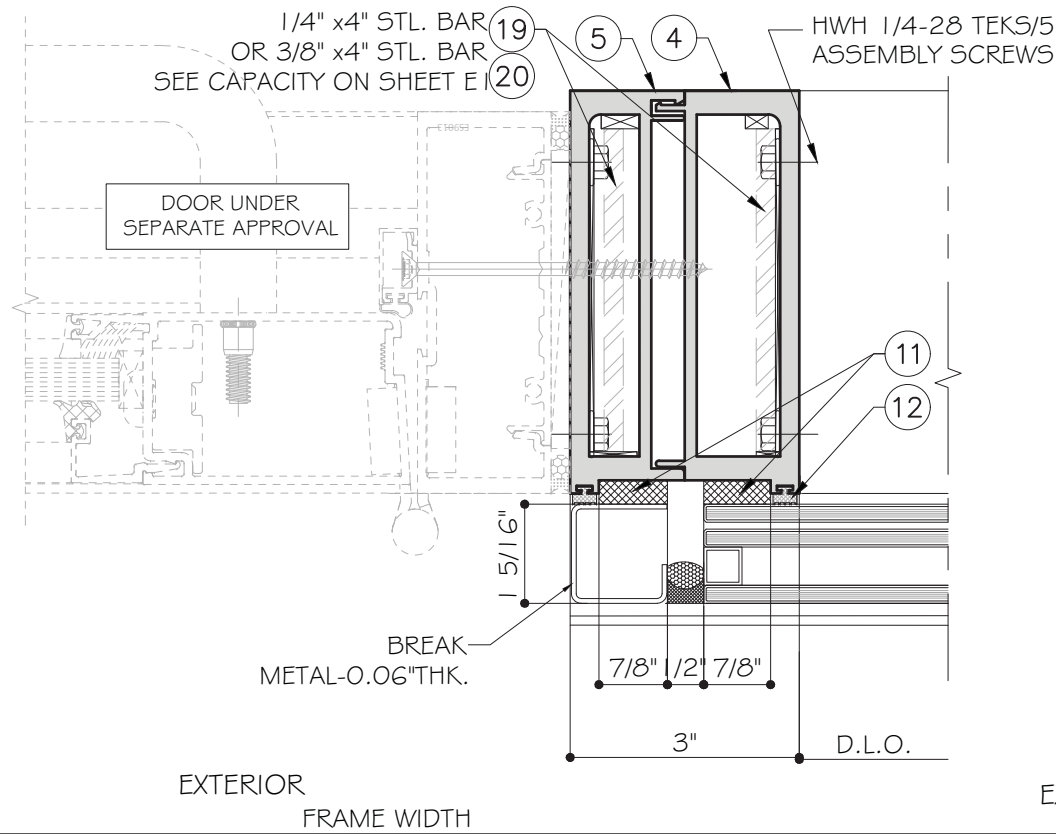
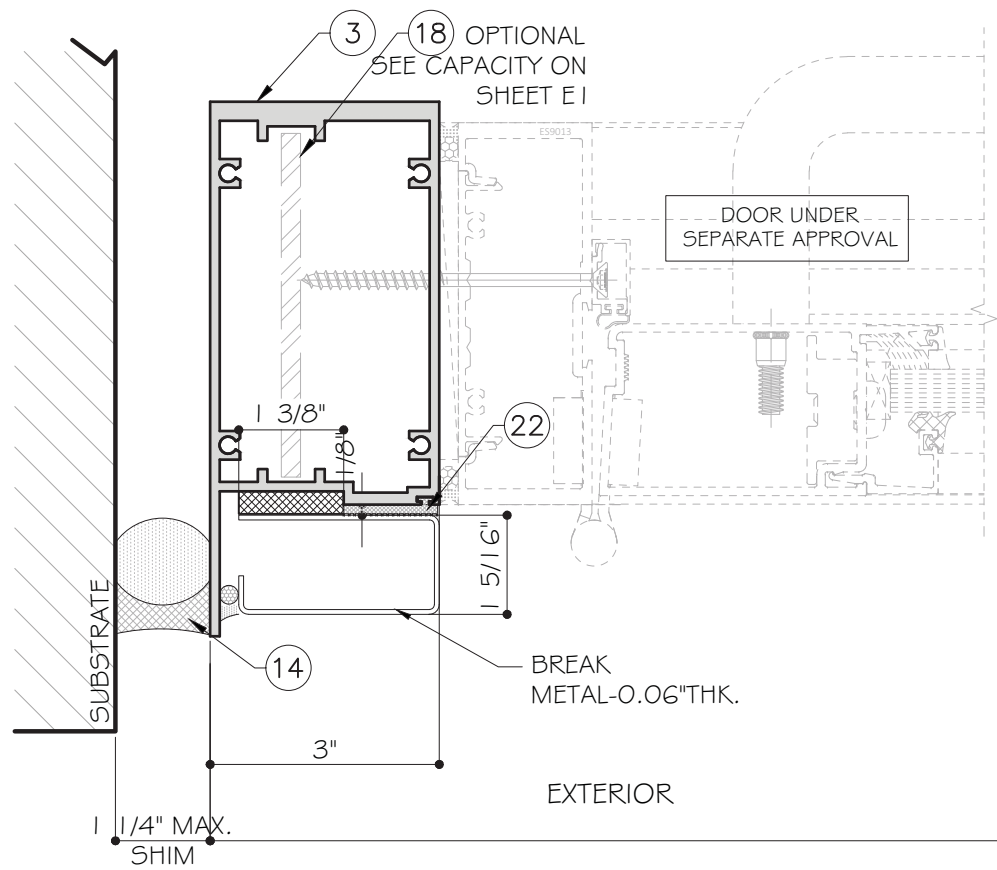
**CONTINENTAL GLASS SYSTEMS, INC.**  
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SERIES 3070 ALUMINUM WINDOW WALL (LMI & SMI)

Rev. No.	Date	Drawn By	Description

Drawn Date: 08/24/2017 Scale:      Drawing No. AD17-16

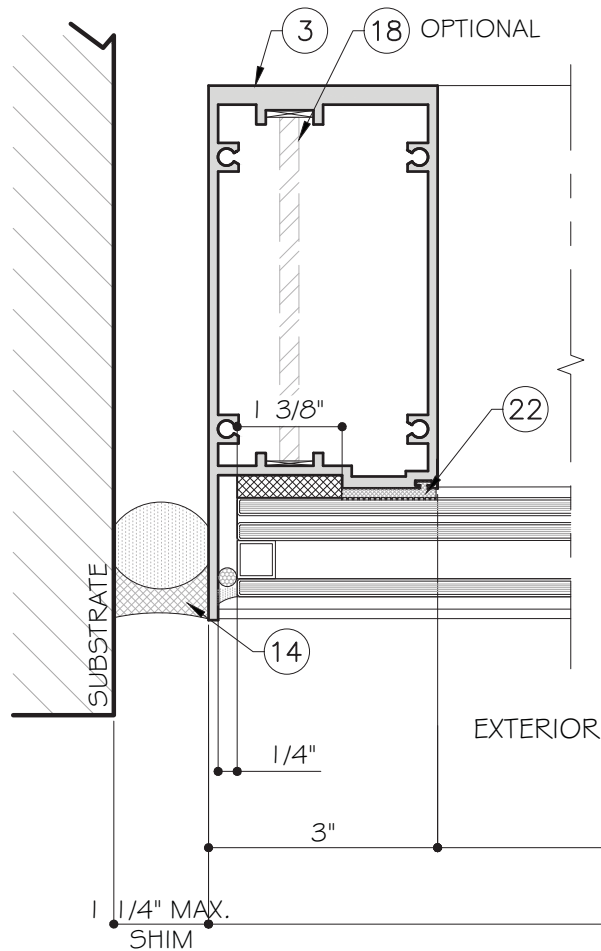
Sheet No. 10 OF 15



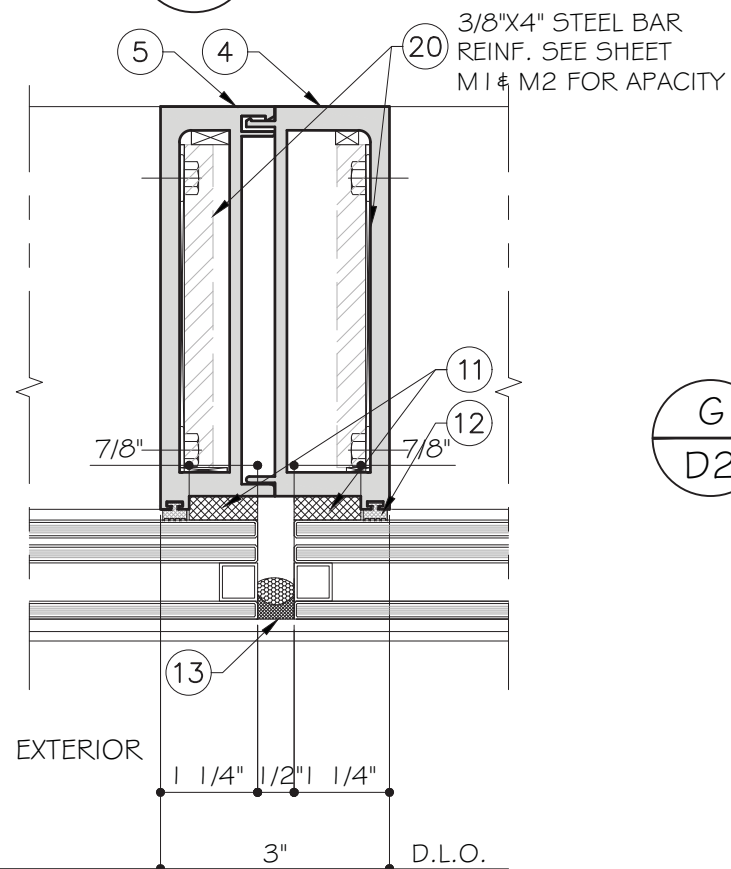
E  
D2  
DETAIL

F  
D2  
DETAIL

I  
D2  
DETAIL

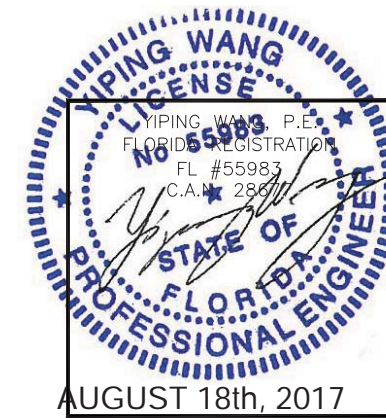


H  
D2  
DETAIL  
TYPICAL JAMB



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"



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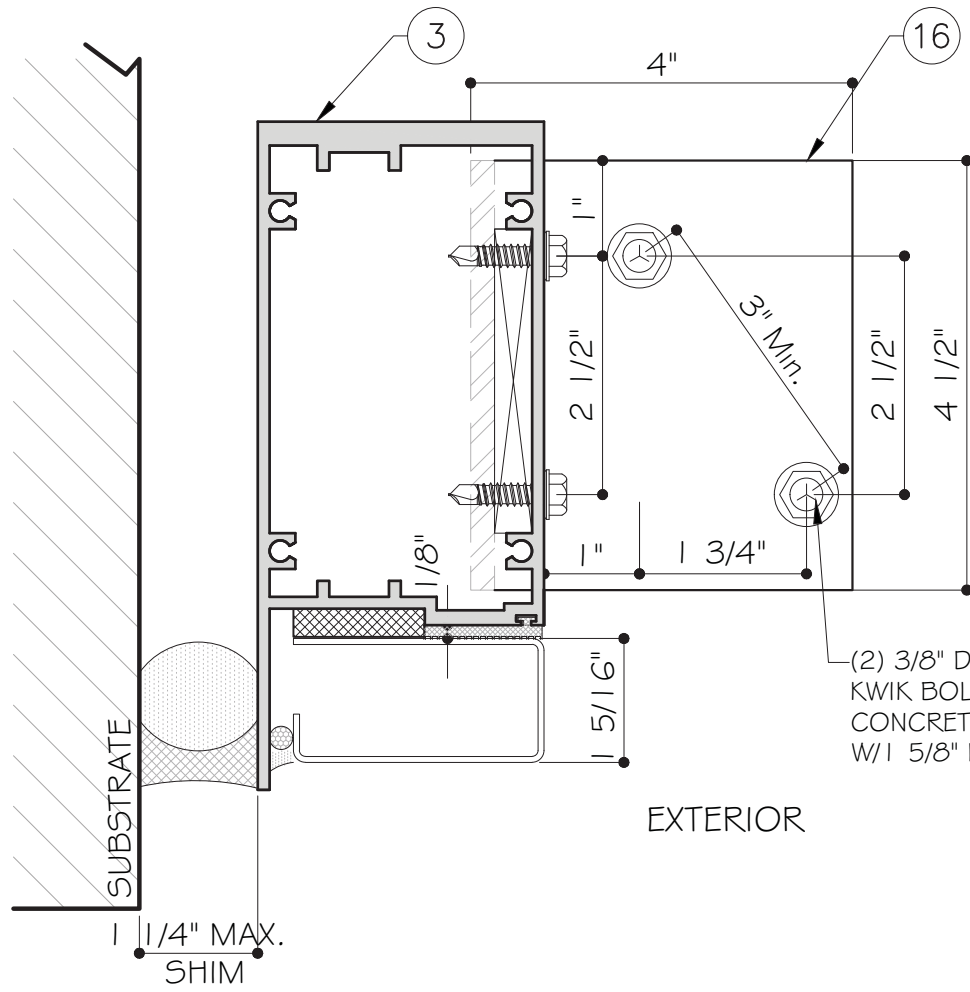
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Rev. No.	Date	Drawn By	Description

Drawn Date 08/24/2017	Scale
DRAWING NO. AD17-16	
Sheet No. D2	
11 OF 15	

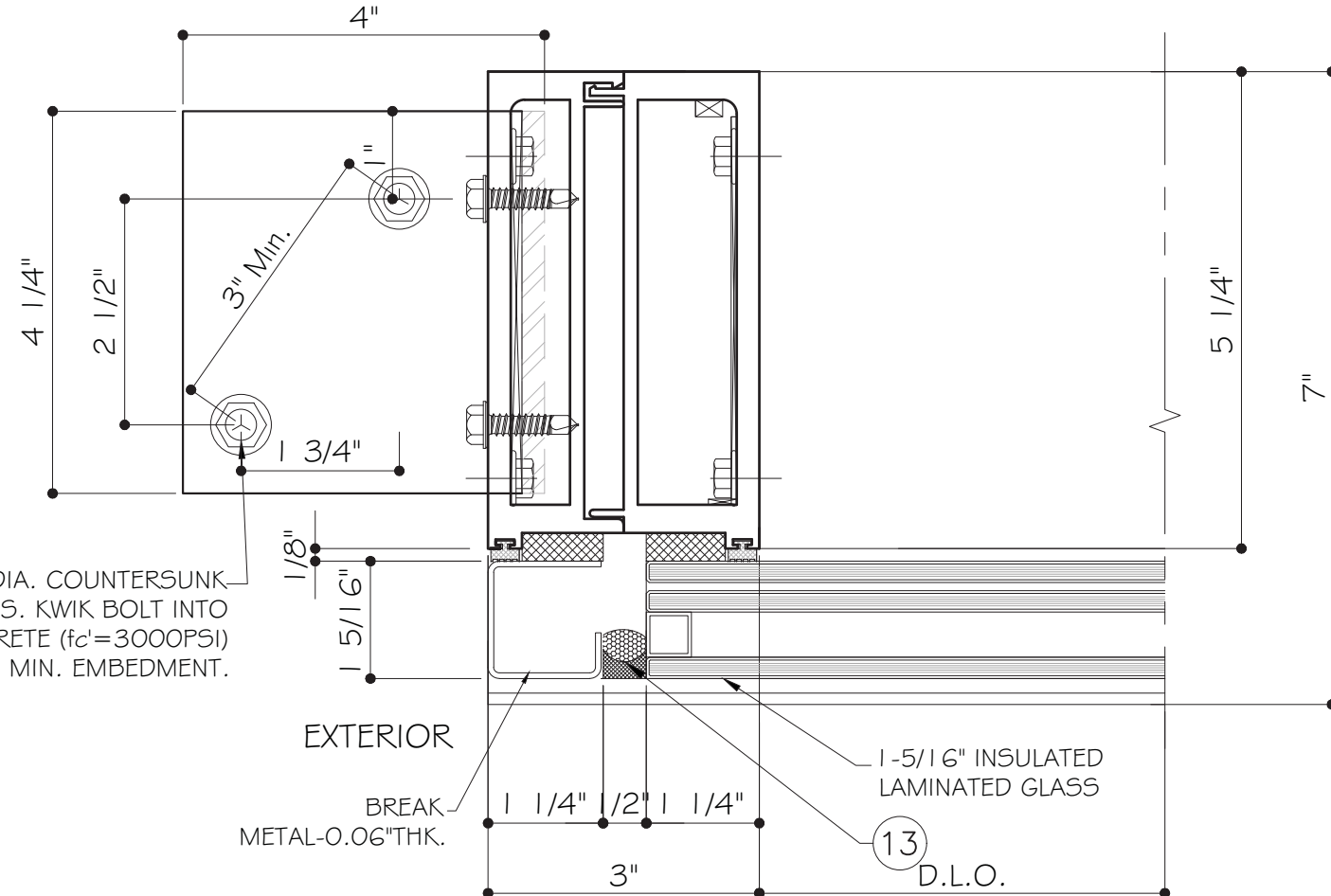


(2) 3/8" DIA. COUNTERSUNK S.S. KWIK BOLT INTO CONCRETE (f'c=3000PSI) W/ 5/8" MIN. EMBEDMENT.

(2) 3/8" DIA. COUNTERSUNK S.S. KWIK BOLT INTO CONCRETE (f'c=3000PSI) W/ 5/8" MIN. EMBEDMENT.

EXTERIOR

**J** DETAIL  
**D3** DOOR JAMB ANCHOR DETAIL



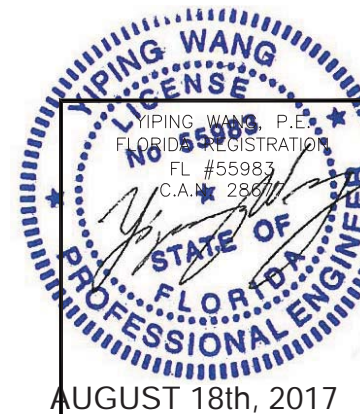
BREAK METAL-0.06"THK.

1-5/16" INSULATED LAMINATED GLASS

13 D.L.O.

EXTERIOR

**K** DETAIL  
**D3** DOOR JAMB MULLION ANCHOR DETAIL



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**MCY ENGINEERING, INC.**  
 GLAZING CONSULTANTS

8501 SW 124 Ave. Ste. 205A  
 MIAMI, FL 33183

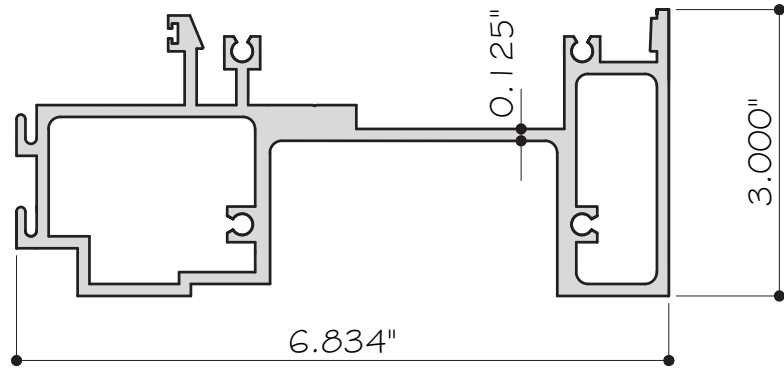
P: 305.271.0117

www.MCYEngineering.com MCY.Engineering@Att.net

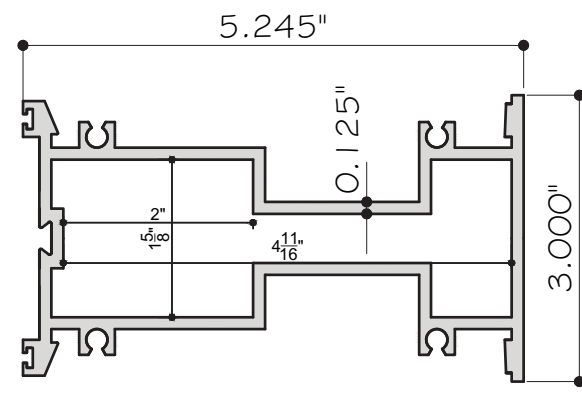
Rev. No.	Date	Drawn By	Description

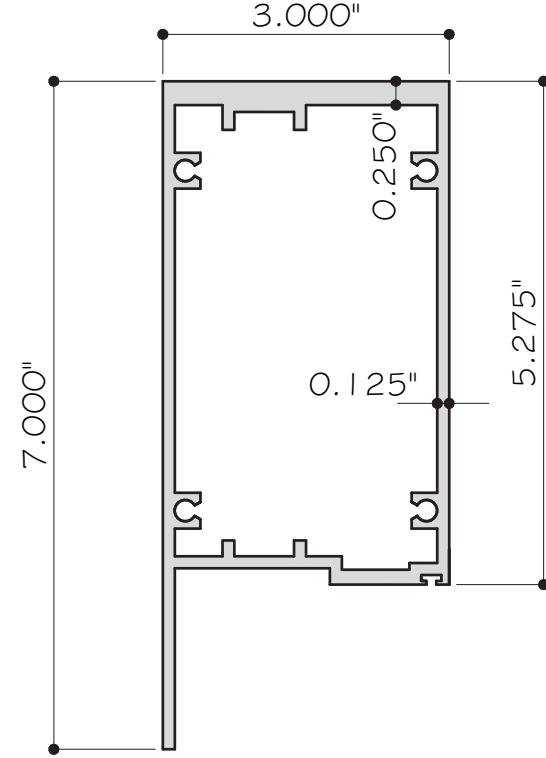
Drawn Date	Scale
08/24/2017	
DRAWING NO.	
AD17-16	
Sheet No.	
D3	
12 OF 15	



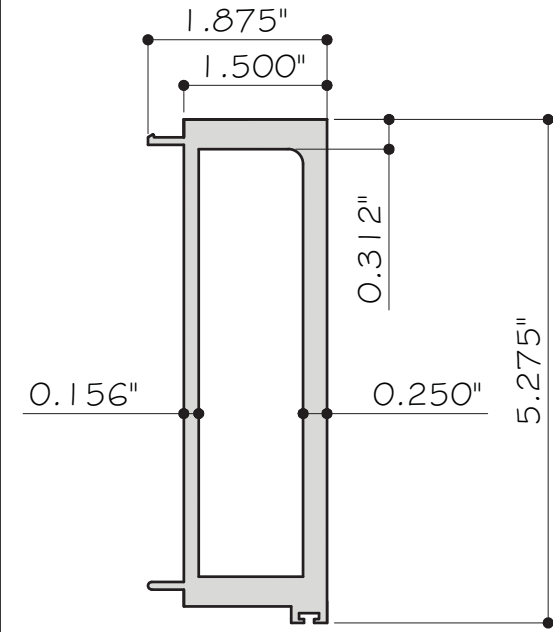
① HEAD / SILL  
3070-01 6005-T5



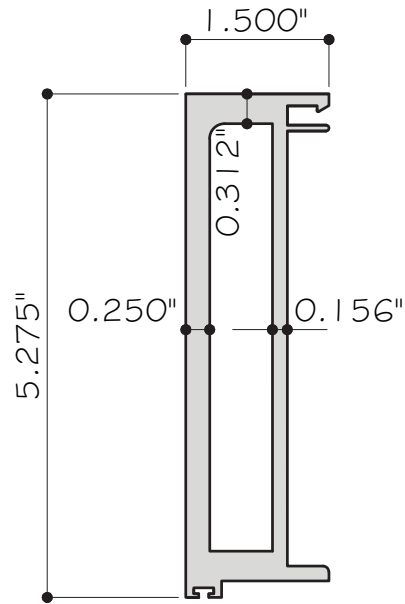
② INTERMEDIATE  
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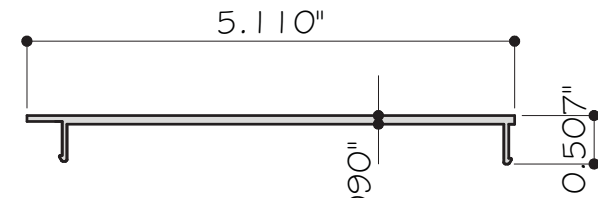
③ JAMB  
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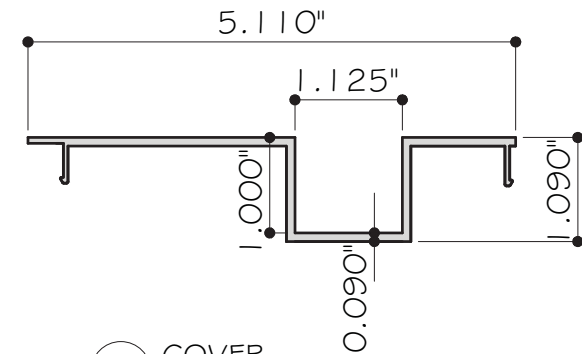
④ MALE MULLION  
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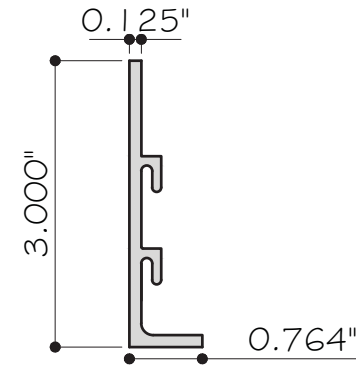
⑤ FEMALE MULLION  
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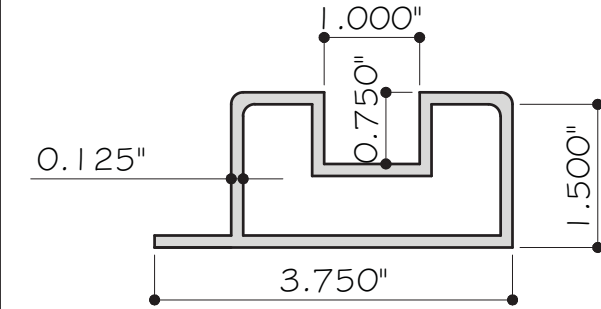
⑥ COVER  
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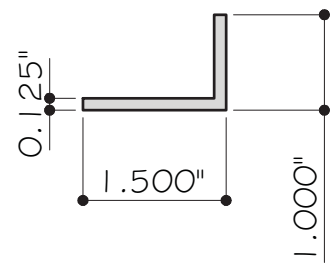
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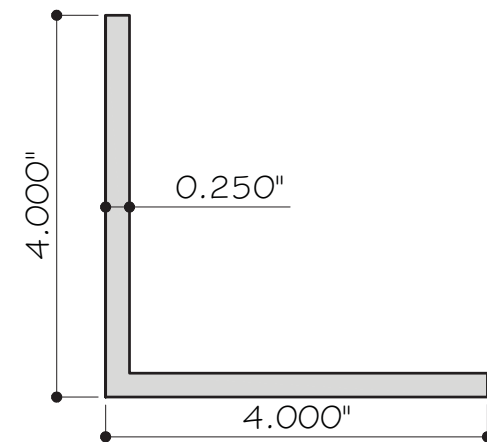
⑧ GLAZING BEAD  
3070-09 6005-T5



⑨ SGD JAMB AGAINST FIXED  
3070-10 6005-T5



⑩ ALUM. ANGLE  
- 6005-T5



⑳ ALUM. ANGLE  
7400-03 6005-T5

**YIPING WANG**  
LICENSE  
No 55983  
FL #55983  
C.A.# 288  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
AUGUST 18th, 2017

Rev. No.	Date	Drawn By	Description

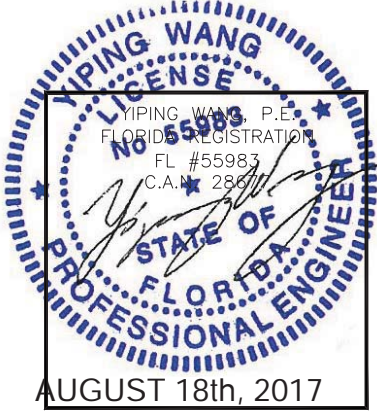
Drawn Date: 08/24/2017 Scale:      DRAWING NO. AD17-16  
PARTS  
Sheet No. 13 OF 15

BILL OF MATERIALS

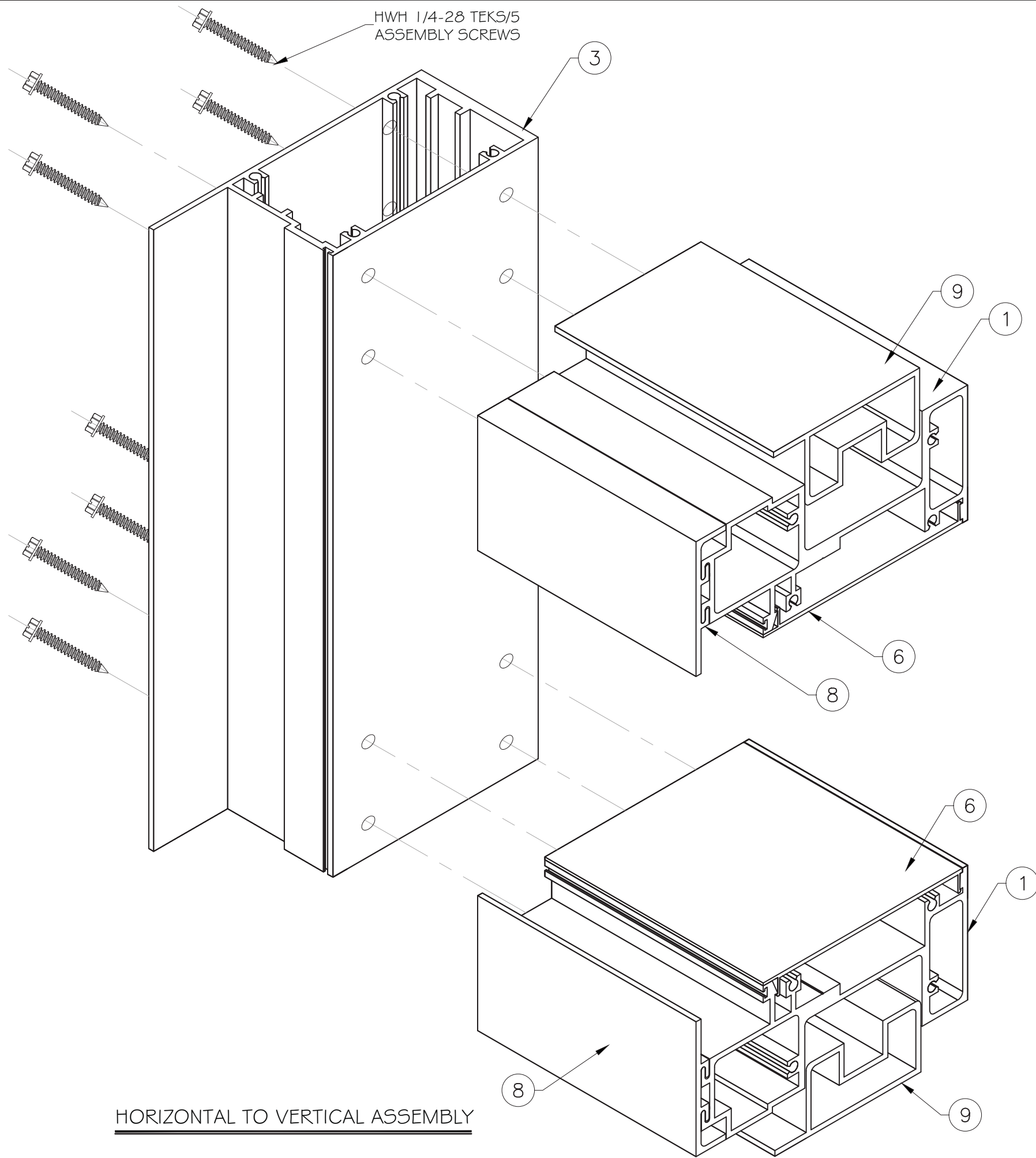
Table with 5 columns: ITEM, PART, DESCRIPTION, MATERIAL, MANUF. / REMARKS. Rows 1-25 list various window components like HEAD / SILL, INTERMEDIATE, JAMB, MULLIONS, BEADS, SEALANTS, GASKETS, SPACERS, and ANGLE IRONS.

MCY ENGINEERING, INC. GLAZING CONSULTANTS. 8501 SW 124 Ave., Ste. 205A MIAMI, FL. 33183. P: 305.271.0117. www.MCYEngineering.com

SERIES 3070 ALUMINUM WINDOW WALL (LMI & SMI) CONTINENTAL GLASS SYSTEMS, INC. 325 WEST 74 PLACE, HIALEAH, FL 33014. TEL: (305) 231-1101 FAX: (305) 231-1103



Revision table with columns: Rev. No., Date, Drawn By, Description. Also includes fields for Drawn Date (08/24/2017), Scale, DRAWING NO. (AD17-16), BOM, and Sheet No. (14 OF 15).



HORIZONTAL TO VERTICAL ASSEMBLY

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Drawn Date 08/24/2017	Scale
DRAWING NO. AD17-16	
BOM	
Sheet No. 15 OF 15	

