

CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
T850B CURTAIN WALL SINGLE SPAN- NON IMPACT

CURTAIN WALL SYSTEM NOT RATED FOR IMPACT.

CTW SERIES T850B CURTAIN WALL SINGLE SPAN-NON IMPACT

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020) OUTSIDE OF THE HIGH VELOCITY HURRICANE ZONE (NON-HVHZ).

THIS SYSTEM IS 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 7TH EDITION FLORIDA BUILDING CODE (2020) SECTION AS APPLICABLE.

METAL STRUCTURES NOT BY CT WINODWS d.b.a ARCHITECTURAL ALUMINUM TECHNIQUES, 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 7-16, 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 7-16 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 CAPACITY DUE TO STRUCTURAL SILICONE. GLASS CAPACITY GOVERNED BY CHART 1 & CHART 2 WHICHEVER IS CRITICAL.

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

STEP 5: USE CHART ON SHEET A1 TO SELECT ANCHOR OPTIONS WITH DESIGN LOAD CAPACITY MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE

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

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING	CL - CENTER LINE
E.J. - EXPANSION JOINT	H.S. - HEAT STRENGTHENED
F.H. - FRAME HEIGHT	SSG - STRUCTURAL SILICONE
F.W. - FRAME WIDTH	GLAZED
LG. - LONG	TEMP. - TEMPERED
STL. - STEEL	O.C. - ON CENTER
ALUM. - ALUMINUM	I.S. - INSIDE
MULL. - MULLION	O.S. - OUTSIDE
HORIZ. - HORIZONTAL	S.S. - STAINLESS STEEL
W/ - WITH	SECTION 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 THAT PREPARED IT.

FLORIDA APPROVAL:
FL# 23007.1



REVISIONS	
NO	DATE DESCRIPTION

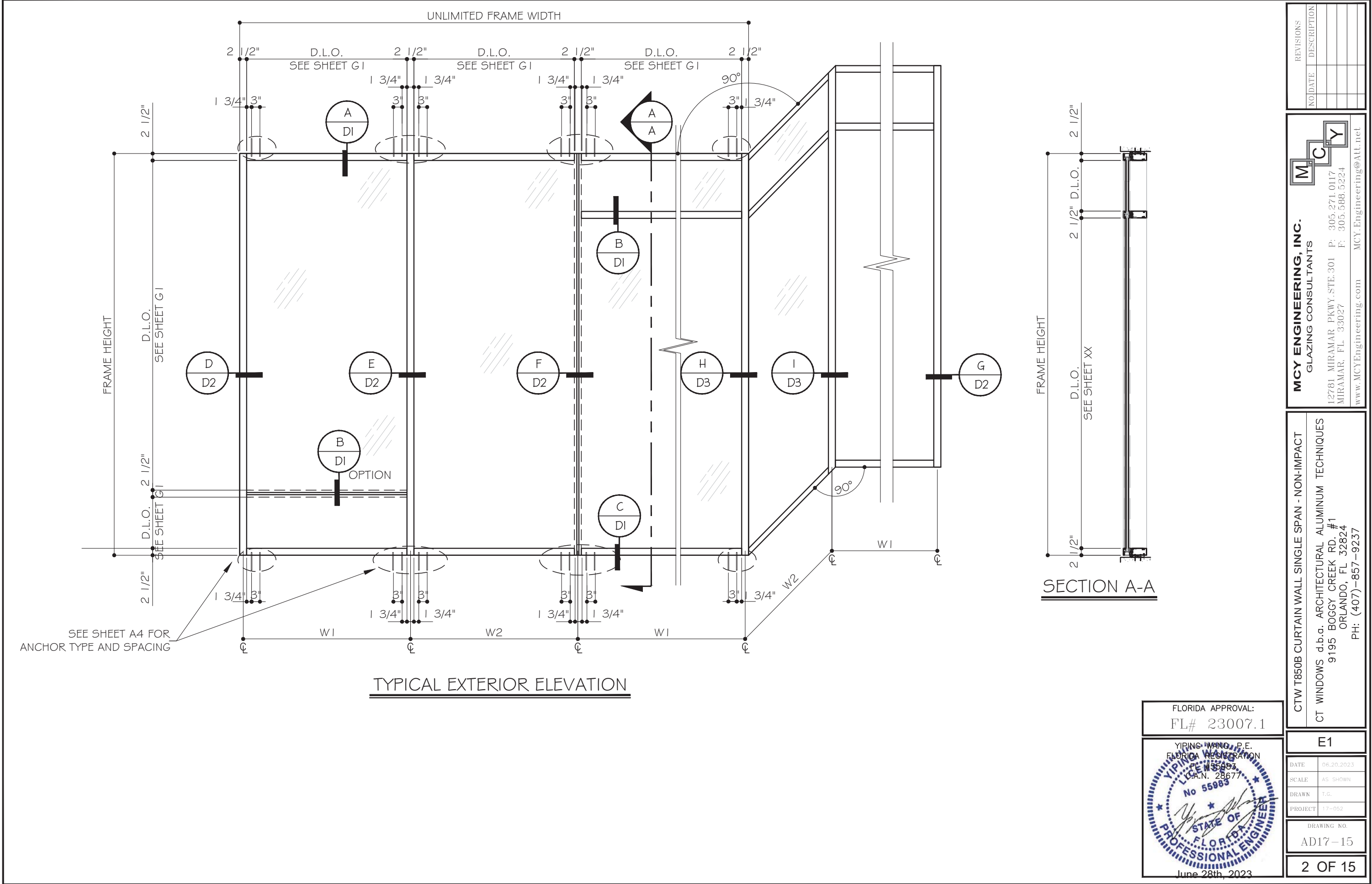
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY, STE. 301 P: 305.271.0117
MIRAMAR, FL 33027 F: 305.588.5224
www.MCYEngineering.com MCY.Engineering@Att.net

CTW T850B CURTAIN WALL SINGLE SPAN - NON-IMPACT

CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)–857–9237

COVER	
DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	17-052
DRAWING NO.	
AD17-15	
1 OF 15	



REVISIONS	
NO	DATE

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E1	
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AD17-15	
2 OF 15	

FLORIDA APPROVAL:
FL# 23007.1

YIPING WU, P.E.
FLORIDA REGISTRATION
P. 155983
C.A.N. 28677

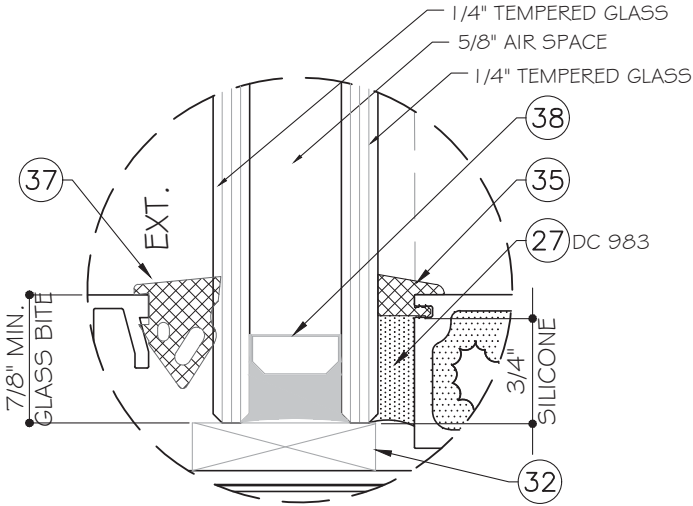
YIPING WU
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 28th, 2023

CHART 1

GLASS LOAD CAPACITY - PSF		
DAYLIGHT OPENING SIZE		GLASS TYPE
D.L.O. H. (IN.)	D.L.O. W. (IN.)	G1 (+/-) psf
97	33.5	120.0
	39.5	120.0
	45.5	120.0
	51.5	120.0
	57.5	120.0
	63.5	120.0
	69.5	120.0
103	33.5	120.0
	39.5	120.0
	45.5	120.0
	51.5	120.0
	57.5	120.0
109	33.5	120.0
	39.5	120.0
	45.5	120.0
	51.5	120.0
	57.5	120.0
	63.5	120.0
	69.5	120.0
115	33.5	120.0
	39.5	120.0
	45.5	120.0
	51.5	120.0
	57.5	120.0
117.5	33.5	120.0
	39.5	120.0
	45.5	120.0
	51.5	120.0
	57.5	120.0
121	33.5	120.0
	39.5	120.0
	45.5	120.0
	51.5	120.0
127	33.5	120.0
	39.5	120.0
	45.5	120.0
	51.5	120.0
133	33.5	120.0
	39.5	120.0
139	33.5	120.0
	39.5	120.0

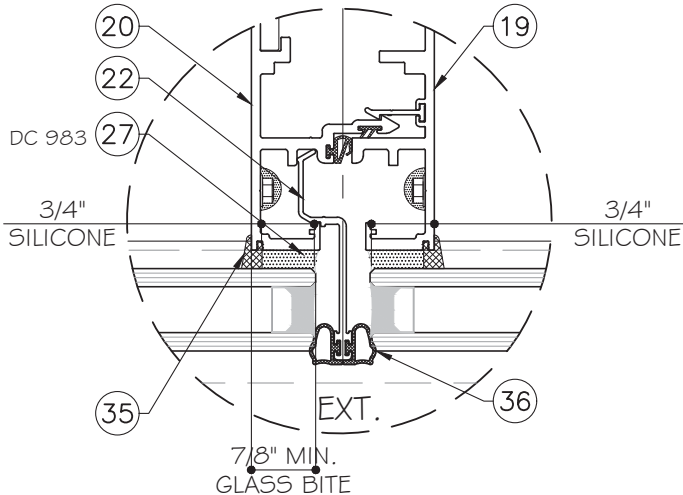
NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).



GLASS TYPE "G1"
1 - 1/8" NOMINAL OVERALL

CHART 2

SSG CAPACITY OF SILICONE		
SILICONE WIDTH	MULLION SPACING (C-C)	CAPACITY
		PSF (+/-)
3/4"	36"	120.0
	42"	102.9
	48"	90.0
	54"	80.0
	60"	72.0
	66"	65.5
	72"	60.0



SSG DETAIL
AT MULLION

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STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 28th, 2023

REVISIONS	
NO	DESCRIPTION

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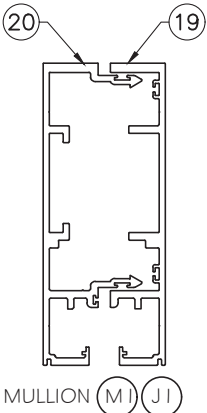
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G1	
DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	17-052
DRAWING NO.	
AD17-15	
3 OF 15	

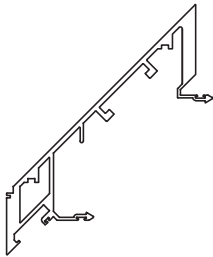
DESIGN LOAD CAPACITY - PSF SINGLE SPANS					
NOMINAL DIMENSIONS		MULLION 'M1'	MULLION 'M1'	JAMB 'J1' OR CORNER C1, C2, C3, C4	JAMB 'J1' OR CORNER C1, C2, C3, C4
FRAME HEIGHT (IN.) (L)	MULLION WIDTH (IN.) (W)				
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
84	36	100.0	120.0	100.0	120.0
	42	100.0	120.0	100.0	120.0
	48	100.0	107.0	100.0	107.0
	54	95.0	95.0	95.0	95.0
	60	86.0	86.0	86.0	86.0
	66	78.0	78.0	78.0	78.0
	72	71.0	71.0	71.0	71.0
90	36	100.0	120.0	100.0	120.0
	42	100.0	114.0	100.0	114.0
	48	100.0	100.0	100.0	100.0
	54	89.0	89.0	89.0	89.0
	60	80.0	80.0	80.0	80.0
	66	73.0	73.0	73.0	73.0
	72	67.0	67.0	67.0	67.0
96	36	100.0	120.0	100.0	120.0
	42	100.0	107.0	100.0	107.0
	48	94.0	94.0	94.0	94.0
	54	83.0	83.0	83.0	83.0
	60	75.0	75.0	75.0	75.0
	66	68.0	68.0	68.0	68.0
	72	63.0	63.0	63.0	63.0
102	36	100.0	118.0	100.0	118.0
	42	100.0	101.0	100.0	101.0
	48	88.0	88.0	88.0	88.0
	54	78.0	78.0	78.0	78.0
	60	71.0	71.0	71.0	71.0
	66	64.0	64.0	64.0	64.0
	72	59.0	59.0	59.0	59.0
108	36	100.0	111.0	100.0	111.0
	42	95.0	95.0	95.0	95.0
	48	83.0	83.0	83.0	83.0
	54	74.0	74.0	74.0	74.0
	60	67.0	67.0	67.0	67.0
	66	61.0	61.0	61.0	61.0
	72	56.0	56.0	56.0	56.0
114	36	100.0	105.0	100.0	105.0
	42	90.0	90.0	90.0	90.0
	48	79.0	79.0	79.0	79.0
	54	70.0	70.0	70.0	70.0
	60	63.0	63.0	63.0	63.0
	66	57.0	57.0	57.0	57.0
	72	53.0	53.0	53.0	53.0

DESIGN LOAD CAPACITY - PSF SINGLE SPANS					
NOMINAL DIMENSIONS		MULLION 'M1'	MULLION 'M1'	JAMB 'J1' OR CORNER C1, C2, C3, C4	JAMB 'J1' OR CORNER C1, C2, C3, C4
FRAME HEIGHT (IN.) (L)	MULLION WIDTH (IN.) (W)				
		EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
120	36	100.0	100.0	100.0	100.0
	42	86.0	86.0	86.0	86.0
	48	75.0	75.0	75.0	75.0
	54	67.0	67.0	67.0	67.0
	60	60.0	60.0	60.0	60.0
	66	55.0	55.0	55.0	55.0
	72	50.0	50.0	50.0	50.0
126	36	95.0	95.0	95.0	95.0
	42	82.0	82.0	82.0	82.0
	48	71.0	71.0	71.0	71.0
	54	63.0	63.0	63.0	63.0
	60	57.0	57.0	57.0	57.0
	66	52.0	52.0	52.0	52.0
	72	47.0	47.0	47.0	47.0
132	36	91.0	91.0	91.0	91.0
	42	78.0	78.0	78.0	78.0
	48	68.0	68.0	68.0	68.0
	54	61.0	61.0	61.0	61.0
	60	55.0	55.0	55.0	55.0
138	36	87.0	87.0	87.0	87.0
	42	75.0	75.0	75.0	75.0
	48	65.0	65.0	65.0	65.0
	54	58.0	58.0	58.0	58.0
144	36	82.0	82.0	83.0	83.0
	42	70.0	70.0	71.0	71.0
	48	61.0	61.0	63.0	63.0
	54	54.0	54.0	56.0	56.0
	60	49.0	49.0	50.0	50.0

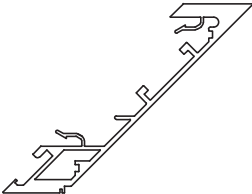
INTERPOLATION BETWEEN WIDTHS AND HEIGHTS ALLOWED.



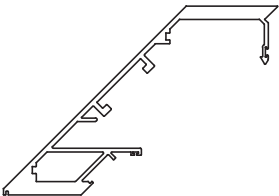
MULLION (M1) JAMB (J1)



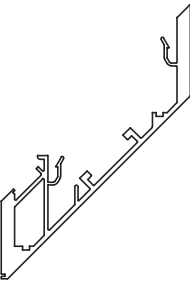
OUTSIDE CORNER (C1)



OUTSIDE CORNER (C2)

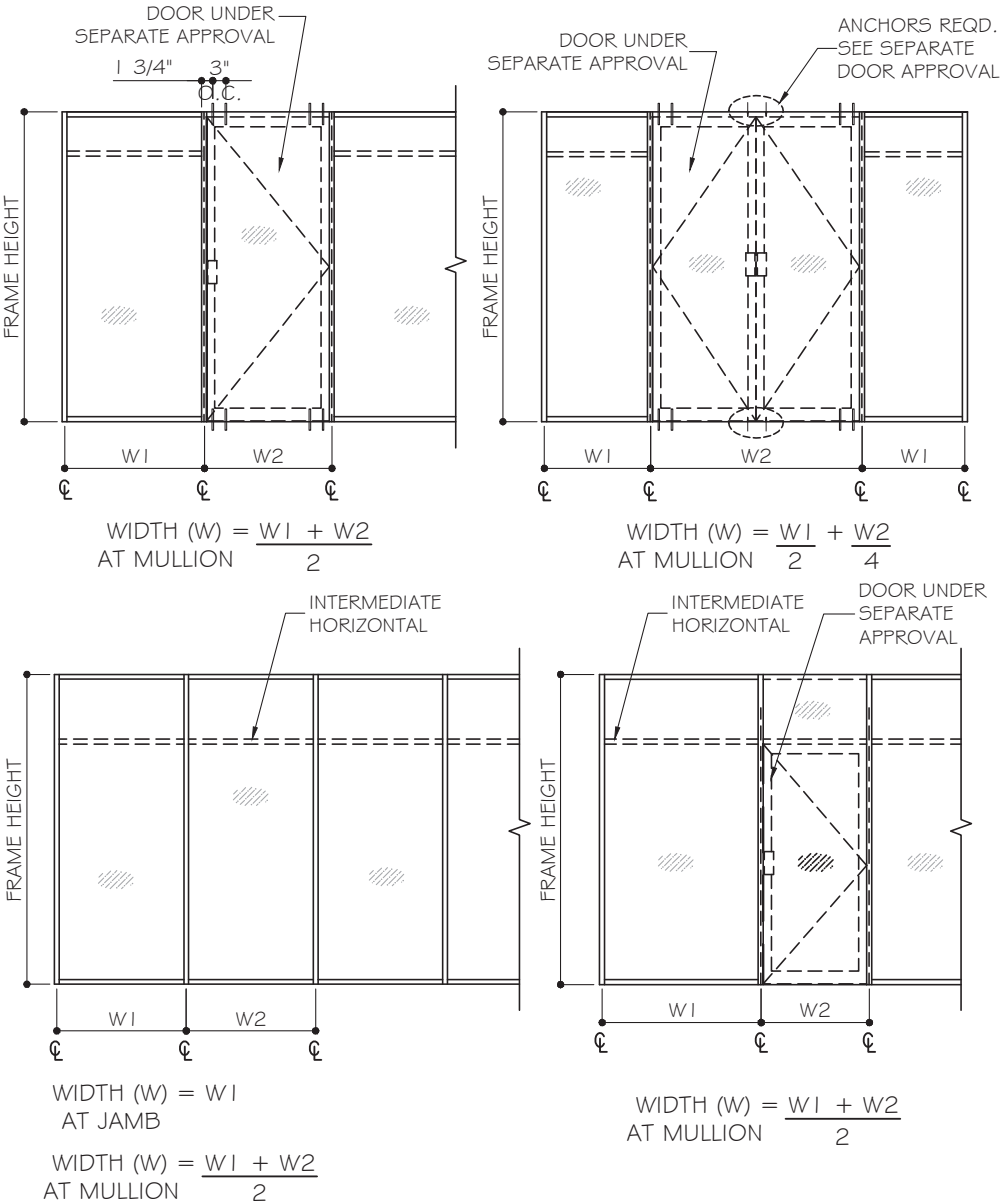


INSIDE CORNER (C3)



INSIDE CORNER (C4)

M1	Ix IN^4	Sx IN^3	C1	Ix IN^4	Sx IN^3	C2	Ix IN^4	Sx IN^3	C3	Ix IN^4	Sx IN^3	C4	Ix IN^4	Sx IN^3
CT-1123	7.7187	2.4679	TGF-1112	22.4049	6.1947	TGF-1113	22.2768	7.1033	TGF-1110	27.5177	8.6596	TGF-1111	27.3759	8.5239
CT-1124	6.5449	2.0757												
TOTAL	14.2636													



FLORIDA APPROVAL:
FL# 23007.1

YIPING WANG, P.E.
FLORIDA REGISTRATION
P. 145583
C.A.N. 28677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 28th, 2023

REVISIONS	DESCRIPTION
NO	DATE

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GLAZING CONSULTANTS

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ORLANDO, FL 32824
PH: (407)-857-9237

M1

DATE: 06.20.2023
SCALE: AS SHOWN
DRAWN: T.G.
PROJECT: 17-052

DRAWING NO.
AD17-15

4 OF 15

ANCHOR CAPACITY - PSF							
NOMINAL DIMENSION		A2	A2	A4	A2	A4	AA2
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	1/2" SHIM	3/4" SHIM		1" SHIM		1 1/2" SHIM
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	84	150.0	135.2	150.0	116.2	150.0	150.0
42		129.6	115.9	150.0	99.6	150.0	137.1
48		113.4	101.4	150.0	87.1	150.0	120.0
54		100.8	90.2	150.0	77.5	150.0	106.7
60		90.7	81.1	150.0	69.7	139.4	96.0
66		82.5	73.8	147.5	63.4	126.8	87.3
72		75.6	67.6	135.2	58.1	116.2	80.0
36	90	141.2	126.2	150.0	108.4	150.0	149.3
42		121.0	108.2	150.0	93.0	150.0	128.0
48		105.9	94.7	150.0	81.3	150.0	112.0
54		94.1	84.1	150.0	72.3	144.6	99.6
60		84.7	75.7	150.0	65.1	130.1	89.6
66		77.0	68.8	137.7	59.2	118.3	81.5
72		70.6	63.1	126.2	54.2	108.4	74.7
36	96	132.3	118.3	150.0	101.7	150.0	140.0
42		113.4	101.4	150.0	87.1	150.0	120.0
48		99.3	88.8	150.0	76.3	150.0	105.0
54		88.2	78.9	150.0	67.8	135.6	93.3
60		79.4	71.0	142.0	61.0	122.0	84.0
66		72.2	64.5	129.1	55.5	110.9	76.4
72		66.2	59.2	118.3	50.8	101.7	70.0
36	102	124.5	111.4	150.0	95.7	150.0	131.8
42		106.8	95.5	150.0	82.0	150.0	112.9
48		93.4	83.5	150.0	71.8	143.5	98.8
54		83.0	74.2	148.5	63.8	127.6	87.8
60		74.7	66.8	133.6	57.4	114.8	79.1
66		67.9	60.7	121.5	52.2	104.4	71.9
72		62.3	55.7	111.4	47.8	95.7	65.9
36	108	117.6	105.2	150.0	90.4	150.0	124.4
42		100.8	90.2	150.0	77.5	150.0	106.7
48		88.2	78.9	150.0	67.8	135.6	93.3
54		78.4	70.1	140.2	60.2	120.5	83.0
60		70.6	63.1	126.2	54.2	108.4	74.7
66		64.2	57.4	114.7	49.3	98.6	67.9
72		58.8	52.6	105.2	45.2	90.4	62.2
36	114	111.4	99.6	150.0	85.6	150.0	117.9
42		95.5	85.4	150.0	73.4	146.8	101.1
48		83.6	74.7	149.5	64.2	128.4	88.4
54		74.3	66.4	132.9	57.1	114.2	78.6
60		66.9	59.8	119.6	51.4	102.7	70.7
66		60.8	54.4	108.7	46.7	93.4	64.3
72		55.7	49.8	99.6	42.8	85.6	58.9

ANCHOR CAPACITY - PSF							
NOMINAL DIMENSION		A2	A2	A4	A2	A4	AA2
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	1/2" SHIM	3/4" SHIM		1" SHIM		1 1/2" SHIM
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	120	105.9	94.7	150.0	81.3	150.0	112.0
42		90.7	81.1	150.0	69.7	139.4	96.0
48		79.4	71.0	142.0	61.0	122.0	84.0
54		70.6	63.1	126.2	54.2	108.4	74.7
60		63.5	56.8	113.6	48.8	97.6	67.2
66		57.7	51.6	103.3	44.4	88.7	61.1
72		52.9	47.3	94.7	40.7	81.3	56.0
36	126	100.8	90.2	150.0	77.5	150.0	106.7
42		86.4	77.3	150.0	66.4	132.8	91.4
48		75.6	67.6	135.2	58.1	116.2	80.0
54		67.2	60.1	120.2	51.6	103.3	71.1
60		60.5	54.1	108.2	46.5	93.0	64.0
66		55.0	49.2	98.4	42.3	84.5	58.2
36	132	96.2	86.1	150.0	73.9	147.9	101.8
42		82.5	73.8	147.5	63.4	126.8	87.3
48		72.2	64.5	129.1	55.5	110.9	76.4
54		64.2	57.4	114.7	49.3	98.6	67.9
60		57.7	51.6	103.3	44.4	88.7	61.1
36	138	92.1	82.3	150.0	70.7	141.4	97.4
42		78.9	70.6	141.1	60.6	121.2	83.5
48		69.0	61.7	123.5	53.0	106.1	73.0
54		61.4	54.9	109.8	47.1	94.3	64.9
60		55.2	49.4	98.8	42.4	84.9	58.4
36	144	88.2	78.9	150.0	67.8	135.6	93.3
42		75.6	67.6	135.2	58.1	116.2	80.0
48		66.2	59.2	118.3	50.8	101.7	70.0
54		58.8	52.6	105.2	45.2	90.4	62.2
60		52.9	47.3	94.7	40.7	81.3	56.0

TYPICAL ANCHORS: SEE SHEET A2 FOR DESCRIPTION

- A2 -(2) ANCHORS TYPE "A" AT EACH SIDE OF JAMB/MULLION
A4 -(4) ANCHORS TYPE "A" AT EACH SIDE OF JAMB/MULLION
AA2 -(2) ANCHORS TYPE "AA" AT EACH SIDE OF JAMB/MULLION

FLORIDA APPROVAL:
FL# 23007.1

YIPING WANG, P.E.
FLORIDA REGISTRATION
P. #55983
C.A.N. 28677

No 55983

STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 28th, 2023

REVISIONS

NO	DATE	DESCRIPTION

MCY

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY, STE. 301
MIRAMAR, FL 33027
P: 305.271.0117
F: 305.588.5224
www.MCYEngineering.com
MCY.Engineering@Att.net

CTW T850B CURTAIN WALL SINGLE SPAN - NON-IMPACT

CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)–857–9237

A1

DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	17-052

DRAWING NO.
AD17-15

5 OF 15

ANCHOR CAPACITY - PSF					
NOMINAL DIMENSION		B2	B2	B4	BB2
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	1/2" SHIM	3/4" SHIM		1 1/2" SHIM
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	84	141.0	101.0	150.0	150.0
42		120.8	86.5	150.0	150.0
48		105.7	75.7	150.0	150.0
54		94.0	67.3	134.6	142.0
60		84.6	60.6	121.1	127.8
66		76.9	55.1	110.1	116.2
72		70.5	50.5	101.0	106.5
36	90	131.6	94.2	150.0	150.0
42		112.8	80.8	150.0	150.0
48		98.7	70.7	141.3	149.1
54		87.7	62.8	125.6	132.5
60		78.9	56.5	113.1	119.3
66		71.8	51.4	102.8	108.4
72		65.8	47.1	94.2	99.4
36	96	123.3	88.3	150.0	150.0
42		105.7	75.7	150.0	150.0
48		92.5	66.3	132.5	139.8
54		82.2	58.9	117.8	124.2
60		74.0	53.0	106.0	111.8
66		67.3	48.2	96.4	101.6
72		61.7	44.2	88.3	93.2
36	102	116.1	83.1	150.0	150.0
42		99.5	71.3	142.5	150.0
48		87.1	62.4	124.7	131.5
54		77.4	55.4	110.8	116.9
60		69.6	49.9	99.8	105.2
66		63.3	45.3	90.7	95.7
72		58.0	41.6	83.1	87.7
36	108	109.6	78.5	150.0	150.0
42		94.0	67.3	134.6	142.0
48		82.2	58.9	117.8	124.2
54		73.1	52.3	104.7	110.4
60		65.8	47.1	94.2	99.4
66		59.8	42.8	85.7	90.3
72		54.8	39.3	78.5	82.8
36	114	103.9	74.4	148.8	150.0
42		89.0	63.8	127.5	134.5
48		77.9	55.8	111.6	117.7
54		69.2	49.6	99.2	104.6
60		62.3	44.6	89.3	94.1
66		56.7	40.6	81.1	85.6
72		51.9	37.2	74.4	78.5

ANCHOR CAPACITY - PSF					
NOMINAL DIMENSION		B2	B2	B4	BB2
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	1/2" SHIM	3/4" SHIM		1 1/2" SHIM
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	120	98.7	70.7	141.3	149.1
42		84.6	60.6	121.1	127.8
48		74.0	53.0	106.0	111.8
54		65.8	47.1	94.2	99.4
60		59.2	42.4	84.8	89.4
66		53.8	38.5	77.1	81.3
72		49.3	35.3	70.7	74.5
36	126	94.0	67.3	134.6	142.0
42		80.5	57.7	115.4	121.7
48		70.5	50.5	101.0	106.5
54		62.6	44.9	89.7	94.6
60		56.4	40.4	80.8	85.2
66		51.3	36.7	73.4	77.4
36	132	89.7	64.2	128.5	135.5
42		76.9	55.1	110.1	116.2
48		67.3	48.2	96.4	101.6
54		59.8	42.8	85.7	90.3
60		53.8	38.5	77.1	81.3
36	138	85.8	61.4	122.9	129.6
42		73.5	52.7	105.3	111.1
48		64.3	46.1	92.2	97.2
54		57.2	41.0	81.9	86.4
60		51.5	36.9	73.7	77.8
36	144	82.2	58.9	117.8	124.2
42		70.5	50.5	101.0	106.5
48		61.7	44.2	88.3	93.2
54		54.8	39.3	78.5	82.8
60		49.3	35.3	70.7	74.5

TYPICAL ANCHORS: SEE SHEET A4 FOR DESCRIPTION

- B2 -(2) ANCHORS TYPE "B" AT EACH SIDE OF JAMB/MULLION
- B4 -(4) ANCHORS TYPE "B" AT EACH SIDE OF JAMB/MULLION
- BB2 -(2) ANCHORS TYPE "BB" AT EACH SIDE OF JAMB/MULLION

FLORIDA APPROVAL:
FL# 23007.1

YIPING WU, P.E.
FLORIDA REGISTRATION
P. #55983
C.A.N. 28677



June 28th, 2023

REVISIONS

NO	DATE	DESCRIPTION

MCY

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GLAZING CONSULTANTS

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A2

DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	17–052

DRAWING NO.
AD17–15

6 OF 15

ANCHOR CAPACITY - PSF							
NOMINAL DIMENSION		C2	C2	C2	C4	C2	C4
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	3/8" SHIM		1/2" SHIM		3/4" SHIM	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	84	85.0	150.0	83.0	150.0	75.8	150.0
42		72.8	145.6	71.2	142.4	65.0	130.0
48		63.7	127.4	62.3	124.6	56.9	113.7
54		56.6	113.3	55.4	110.7	50.5	101.1
60		51.0	101.9	49.8	99.7	45.5	91.0
66		46.3	92.7	45.3	90.6	41.4	82.7
72		42.5	85.0	41.5	83.0	37.9	75.8
36	90	79.3	150.0	77.5	150.0	70.8	141.5
42		68.0	135.9	66.4	132.9	60.6	121.3
48		59.5	118.9	58.1	116.3	53.1	106.1
54		52.9	105.7	51.7	103.3	47.2	94.3
60		47.6	95.1	46.5	93.0	42.5	84.9
66		43.2	86.5	42.3	84.6	38.6	77.2
72		39.6	79.3	38.8	77.5	35.4	70.8
36	96	74.3	148.7	72.7	145.3	66.3	132.7
42		63.7	127.4	62.3	124.6	56.9	113.7
48		55.8	111.5	54.5	109.0	49.8	99.5
54		49.6	99.1	48.4	96.9	44.2	88.4
60		44.6	89.2	43.6	87.2	39.8	79.6
66		40.5	81.1	39.6	79.3	36.2	72.4
72		37.2	74.3	36.3	72.7	33.2	66.3
36	102	70.0	139.9	68.4	136.8	62.4	124.9
42		60.0	119.9	58.6	117.2	53.5	107.0
48		52.5	104.9	51.3	102.6	46.8	93.6
54		46.6	93.3	45.6	91.2	41.6	83.2
60		42.0	84.0	41.0	82.1	37.5	74.9
66		38.2	76.3	37.3	74.6	34.1	68.1
72		35.0	70.0	34.2	68.4	31.2	62.4
36	108	66.1	132.1	64.6	129.2	59.0	117.9
42		56.6	113.3	55.4	110.7	50.5	101.1
48		49.6	99.1	48.4	96.9	44.2	88.4
54		44.0	88.1	43.1	86.1	39.3	78.6
60		39.6	79.3	38.8	77.5	35.4	70.8
66		36.0	72.1	35.2	70.5	32.2	64.3
72		33.0	66.1	32.3	64.6	29.5	59.0
36	114	62.6	125.2	61.2	122.4	55.9	111.7
42		53.7	107.3	52.5	104.9	47.9	95.8
48		46.9	93.9	45.9	91.8	41.9	83.8
54		41.7	83.5	40.8	81.6	37.2	74.5
60		37.6	75.1	36.7	73.4	33.5	67.0
66		34.1	68.3	33.4	66.8	30.5	60.9
72		31.3	62.6	30.6	61.2	27.9	55.9

ANCHOR CAPACITY - PSF							
NOMINAL DIMENSION		C2	C4	C2	C4	C2	C4
MULLION WIDTH (IN.) (W)	FRAME HEIGHT (IN.) (L)	3/8" SHIM		1/2" SHIM		3/4 " SHIM	
		EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)	EXT. (+) INT. (-)
36	120	59.5	118.9	58.1	116.3	53.1	106.1
42		51.0	101.9	49.8	99.7	45.5	91.0
48		44.6	89.2	43.6	87.2	39.8	79.6
54		39.6	79.3	38.8	77.5	35.4	70.8
60		35.7	71.4	34.9	69.8	31.8	63.7
66		32.4	64.9	31.7	63.4	28.9	57.9
72		29.7	59.5	29.1	58.1	26.5	53.1
36	126	56.6	113.3	55.4	110.7	50.5	101.1
42		48.5	97.1	47.5	94.9	43.3	86.6
48		42.5	85.0	41.5	83.0	37.9	75.8
54		37.8	75.5	36.9	73.8	33.7	67.4
60		34.0	68.0	33.2	66.4	30.3	60.6
66		30.9	61.8	30.2	60.4	27.6	55.1
36	132	54.1	108.1	52.8	105.7	48.2	96.5
42		46.3	92.7	45.3	90.6	41.4	82.7
48		40.5	81.1	39.6	79.3	36.2	72.4
54		36.0	72.1	35.2	70.5	32.2	64.3
60		32.4	64.9	31.7	63.4	28.9	57.9
36	138	51.7	103.4	50.6	101.1	46.1	92.3
42		44.3	88.6	43.3	8607	39.6	79.1
48		38.8	77.6	37.9	75.8	34.6	69.2
54		34.5	68.9	33.7	67.4	30.8	61.5
60		31.0	62.1	30.3	60.7	27.7	55.4
36	144	49.6	99.1	48.4	96.9	44.2	88.4
42		42.5	85.0	41.5	83.0	37.9	75.8
48		37.2	74.3	36.3	72.7	33.2	66.3
54		33.0	66.1	32.3	64.6	29.5	59.0
60		29.7	59.5	29.1	58.1	26.5	53.1

TYPICAL ANCHORS: SEE SHEET A4 FOR DESCRIPTION

C2 -(2) ANCHORS TYPE "A" AT EACH SIDE OF JAMB/MULLION
C4 -(4) ANCHORS TYPE "A" AT EACH SIDE OF JAMB/MULLION

FLORIDA APPROVAL:
FL# 23007.1

YIPING WANG, P.E.
FLORIDA REGISTRATION
P. #55983
C.A.N. 28677

No 55983

STATE OF FLORIDA

PROFESSIONAL ENGINEER

June 28th, 2023

REVISIONS

NO	DATE	DESCRIPTION

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

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C

Y

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MIRAMAR, FL 33027
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F: 305.588.5224
www.MCYEngineering.com
MCY.Engineering@Atl.net

CTW T850B CURTAIN WALL SINGLE SPAN - NON-IMPACT

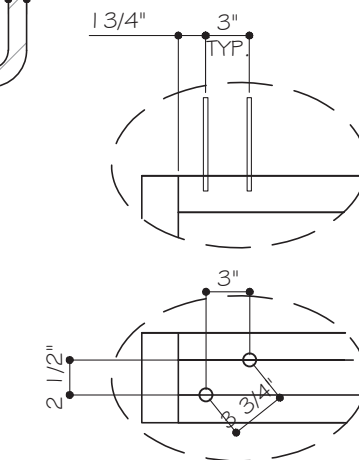
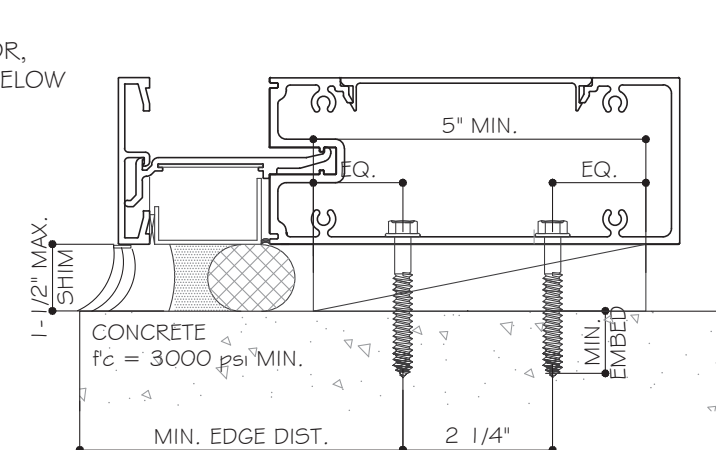
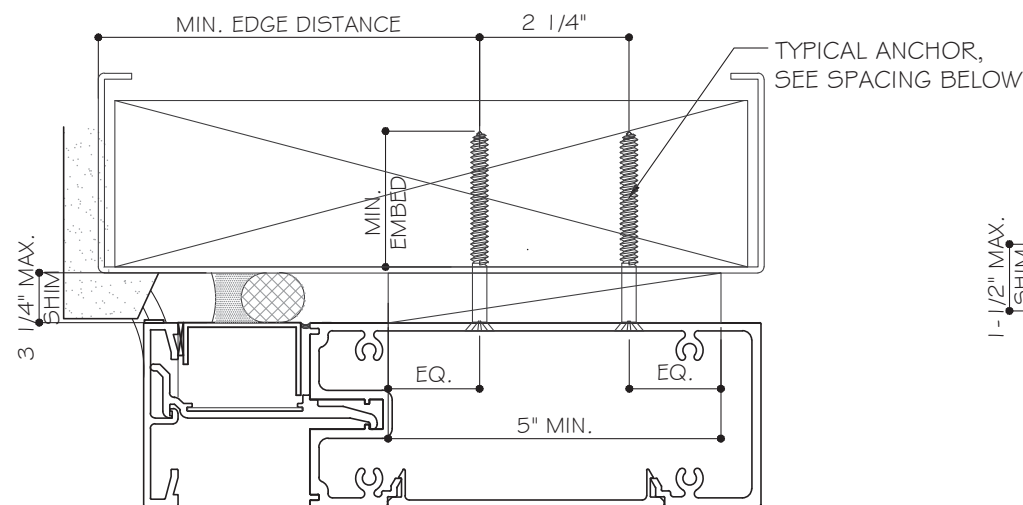
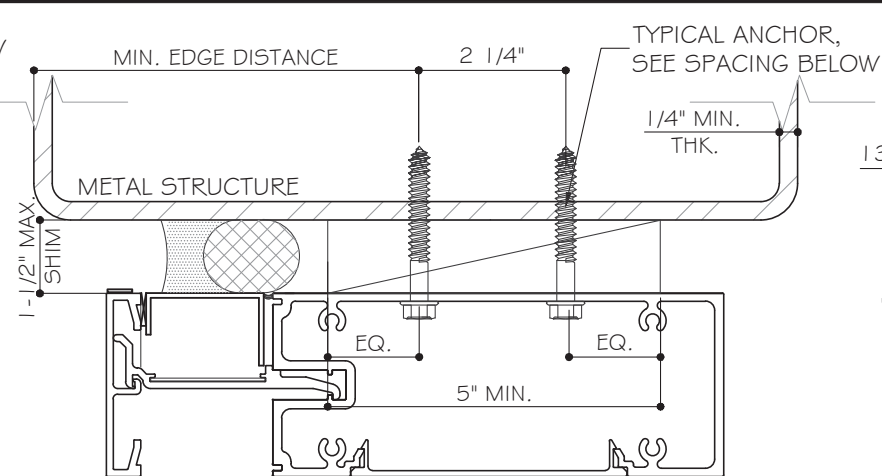
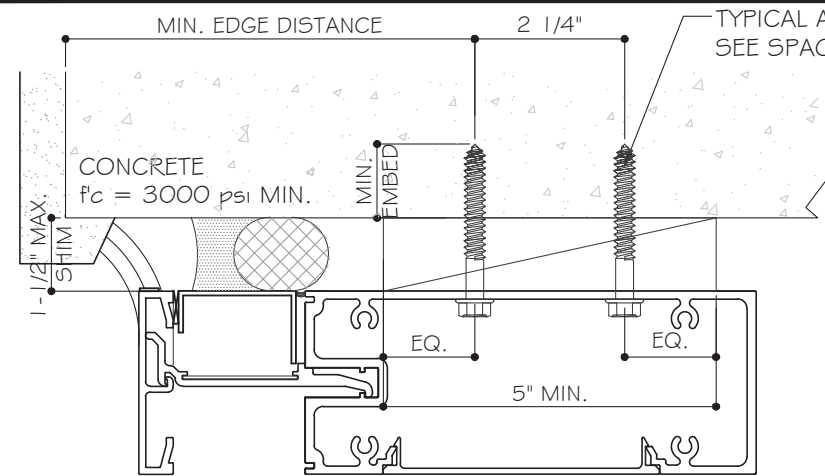
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9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)–857–9237

A3

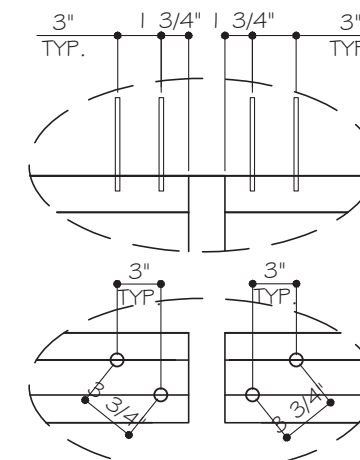
DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	17–052

DRAWING NO.
AD17–15

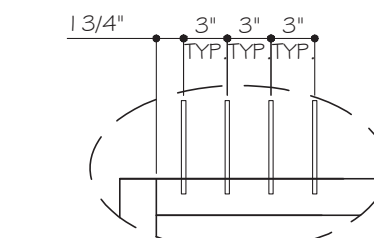
7 OF 15



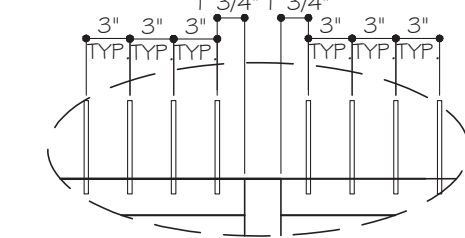
HEAD ANCHOR TYPE "A2",
"AA2", "B2", "BB2" OR "C2"
(2) ANCHORS AT EACH SIDE OF
JAMB



HEAD ANCHOR TYPE "A2",
"AA2", "B2", "BB2" OR "C2"
(2) ANCHORS AT EACH SIDE OF
MULLION



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



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

TYPICAL ANCHORS AT HEAD AND SILL:

TYPE "A": 5/16" DIA. ULTRACON BY DEWALT ($F_u = 177$ KSI, $F_y = 155$ KSI)
1 3/4" MIN. EMBED DIRECTLY INTO $f_c' = 3$ KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE
UP TO 1" MAX. SHIM

TYPE "AA": 1/2" DIA. HILTI KWIK HUS-EZ ($F_u = 112.5$ KSI, $F_y = 88.5$ KSI)
2 1/4" MIN. EMBED DIRECTLY INTO $f_c' = 3$ KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE
FOR 1" TO 1 1/2" MAX. SHIM.

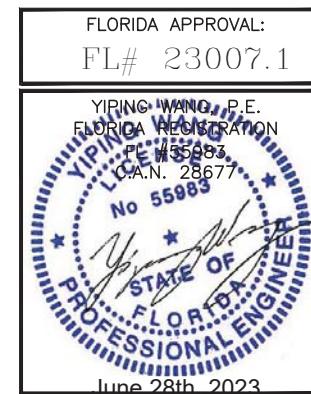
TYPE "B": 5/16" DIA. TEKS (GRADE 5) OR SELF DRILLIN SCREW ($F_u = 120$ KSI, $F_y = 92$ KSI)
INTO 1/8" MIN. ALUMINUM (6063-T5)
UP TO 3/4" MAX. SHIM

TYPE "BB": 1/2" ELCO TAP-FLEX ($F_u = F_y =$)
INTO 1/8" MIN. THK. STEEL (A36)
UP TO 1 1/2" MAX. SHIM

TYPE "C": 5/16" DIA. LAG SCREW THRU METAL STUD INTO WOOD (SG=0.55 MIN.)
WITH 1 1/2" MIN. EDGE DISTANCE TO WOOD
UP TO 3/4" MAX. SHIM

-SEALANTS:

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



REVISIONS	DESCRIPTION
NO	DATE

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

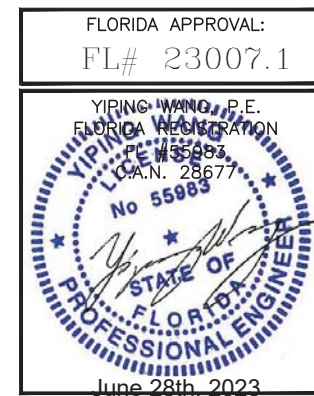
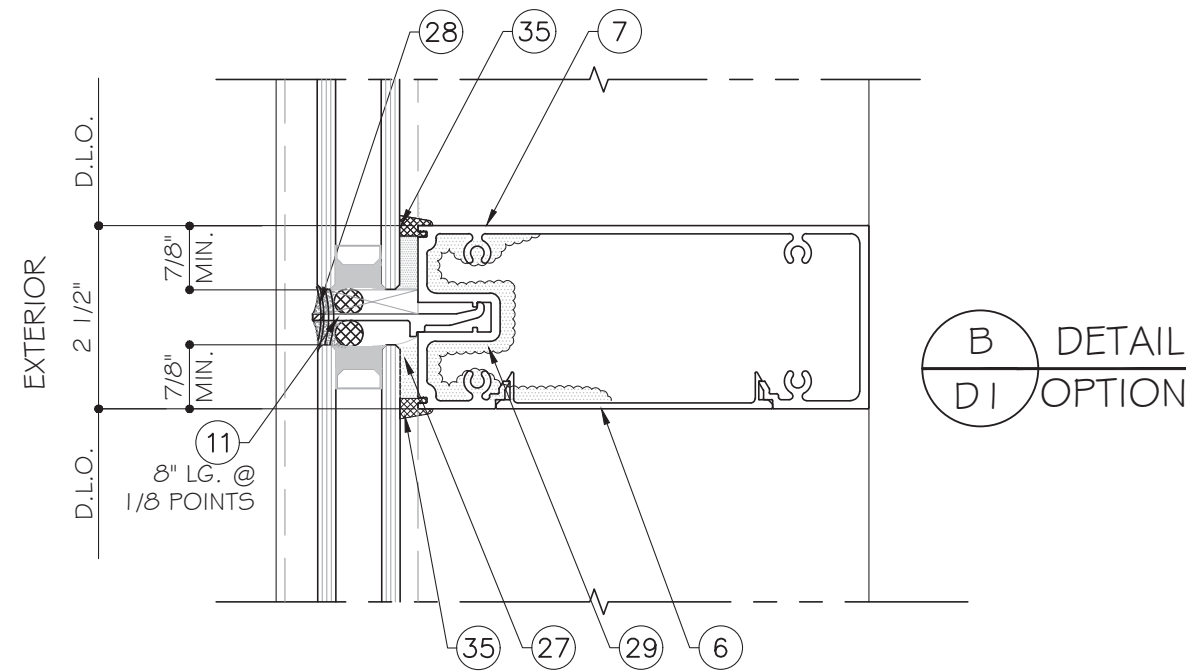
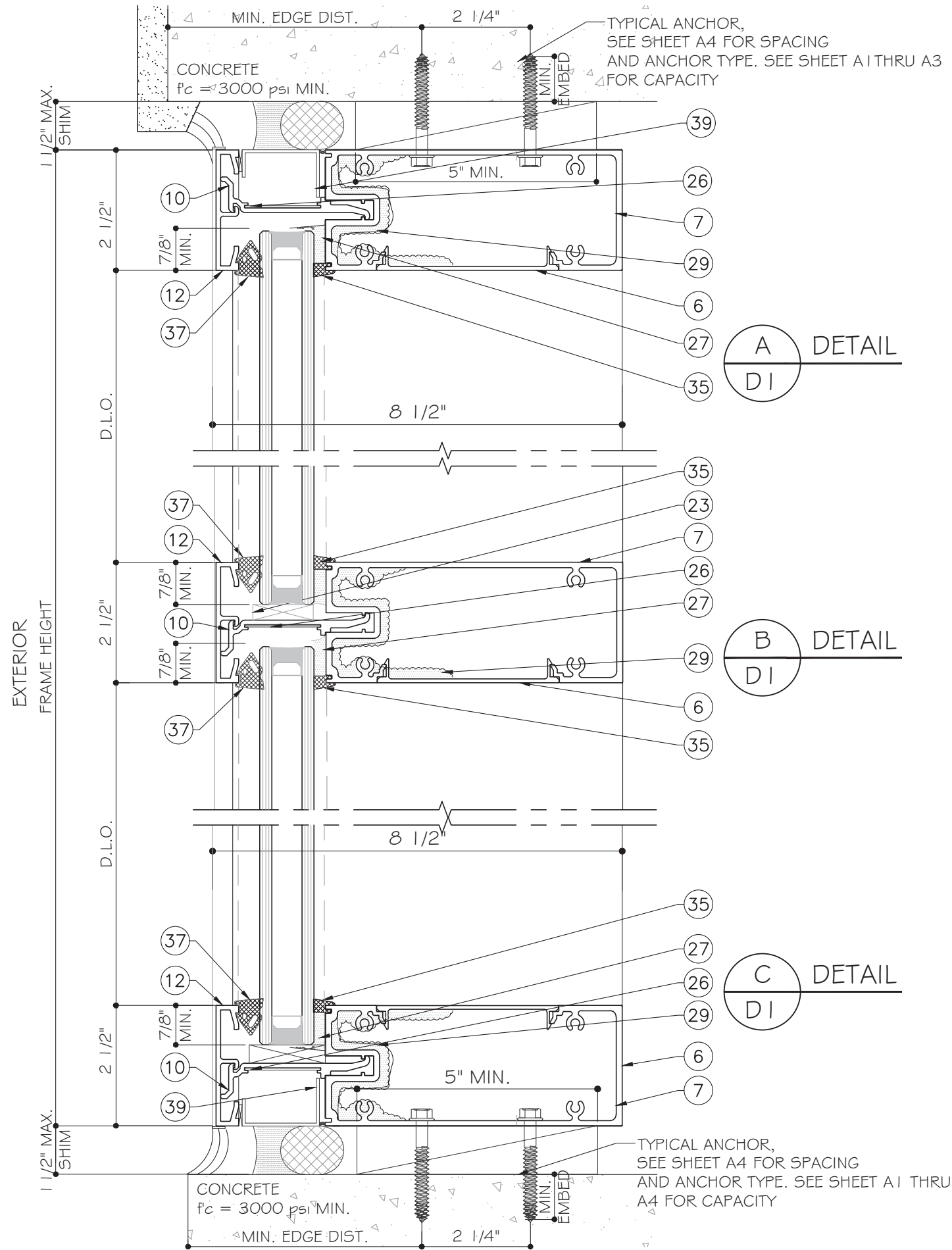
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MIRAMAR, FL 33027 F: 305.588.5224
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CTW T850B CURTAIN WALL SINGLE SPAN - NON-IMPACT

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PH: (407)-857-9237

A4	
DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	17-052
DRAWING NO. AD17-15	
8 OF 15	



NO	DATE	DESCRIPTION

MCY ENGINEERING, INC.
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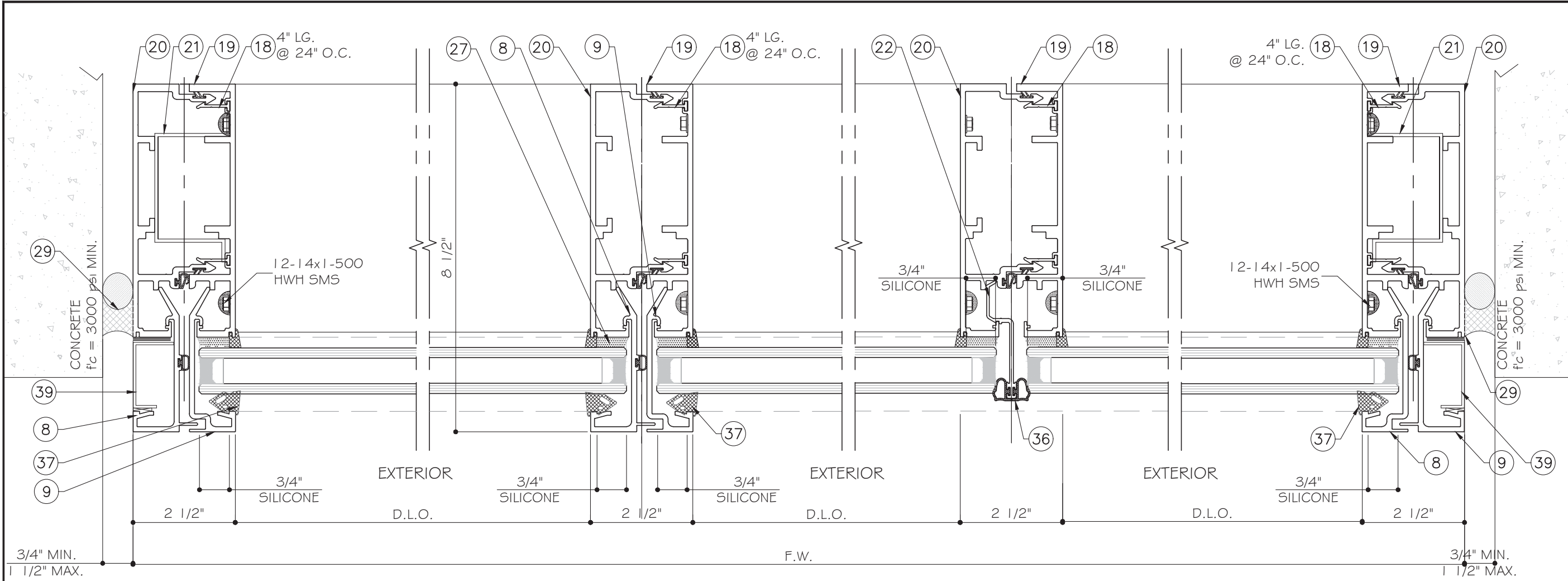
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ORLANDO, FL 32824

PH: (407)-857-9237

D1	
DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	17-052
DRAWING NO.	
AD17-15	
9 OF 15	



D
D2

DETAIL

E
D2

DETAIL

F
D2

DETAIL

G
D2

DETAIL

FLORIDA APPROVAL:
FL# 23007.1

YIPING WU, P.E.
FLORIDA REGISTRATION
P. 1435983
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No 55983

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

June 28th, 2023

REVISIONS	
NO	DATE DESCRIPTION

MCY

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MIRAMAR, FL 33027

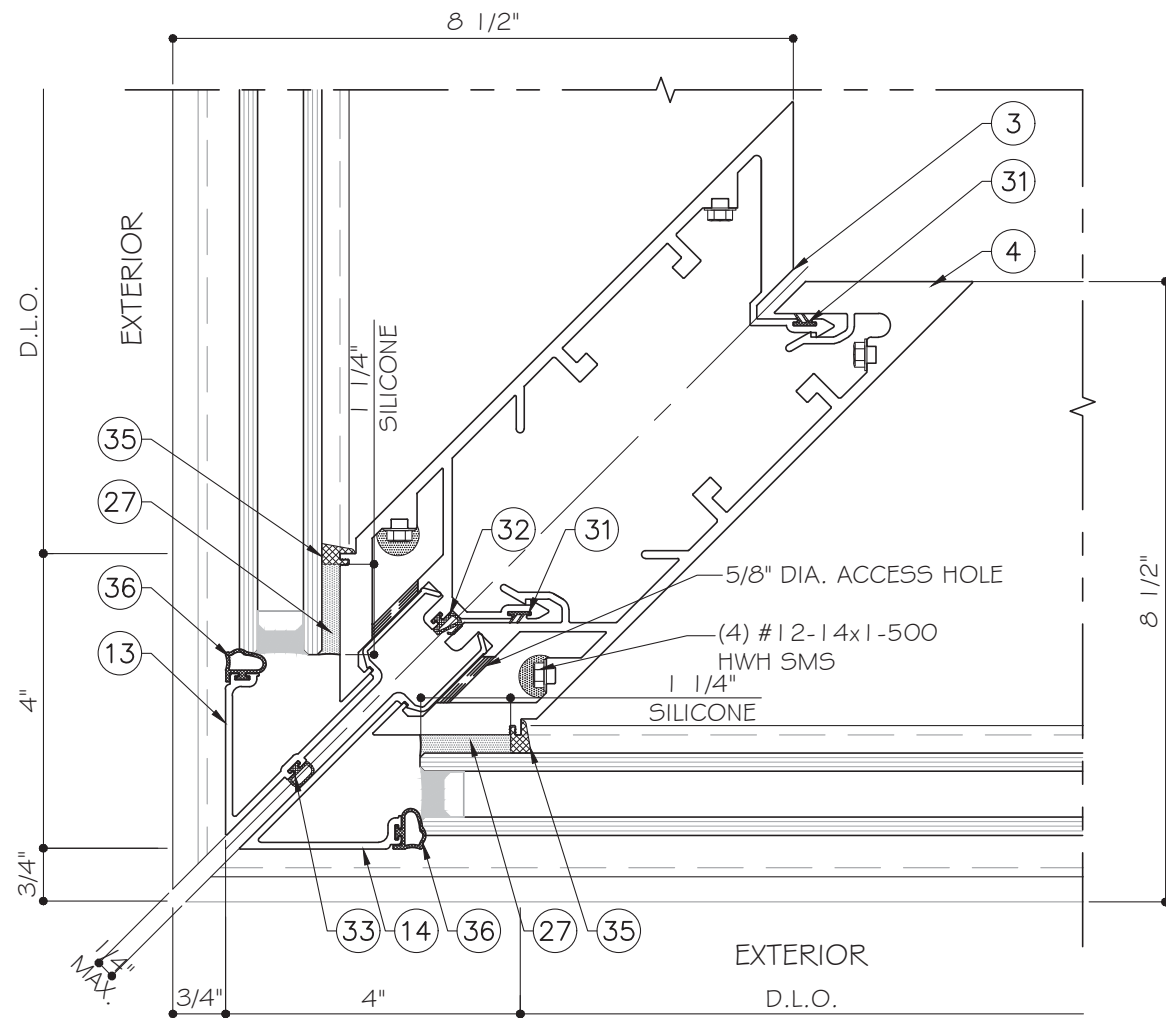
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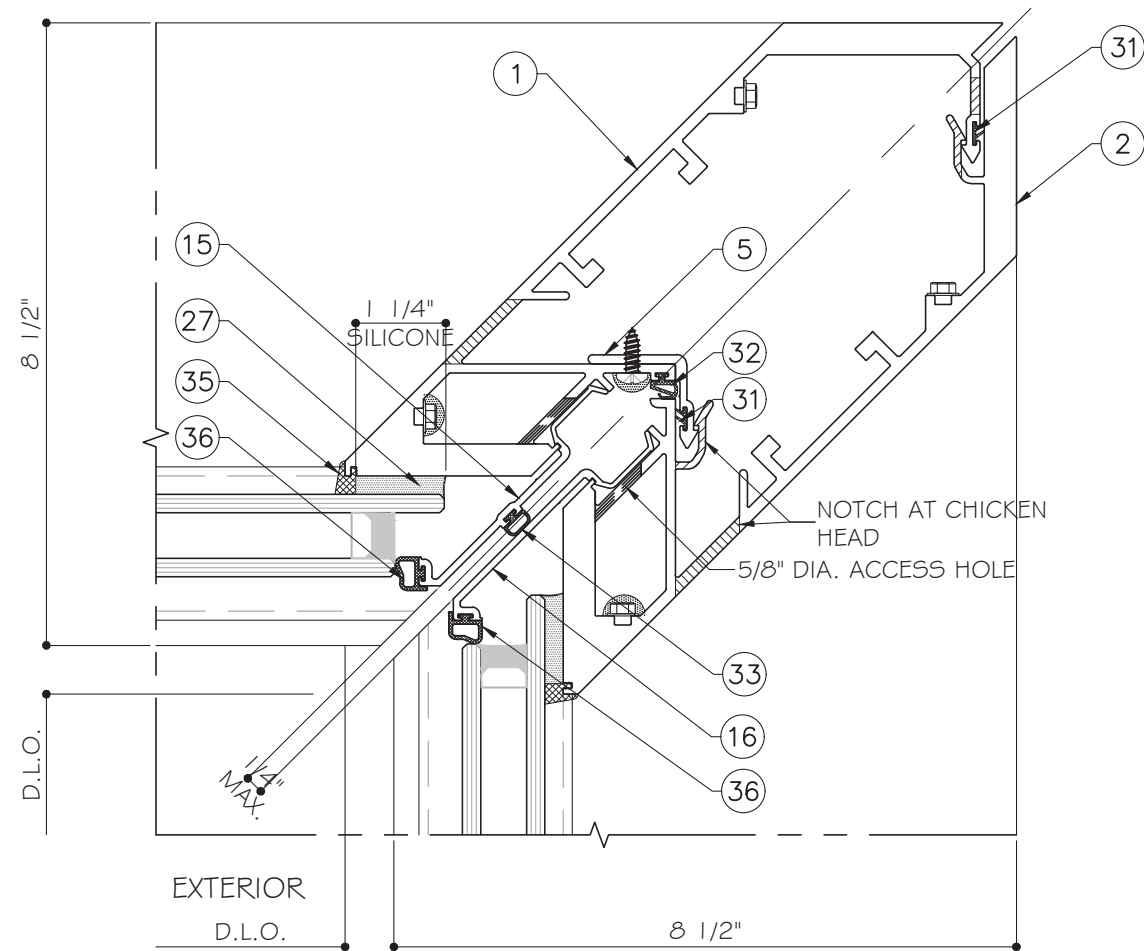
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D2	
DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	17-052
DRAWING NO.	
AD17-15	
10 OF 15	



H
D3
DETAIL



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D3
DETAIL

FLORIDA APPROVAL:
FL# 23007.1

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
June 28th, 2023

NO	DATE	DESCRIPTION

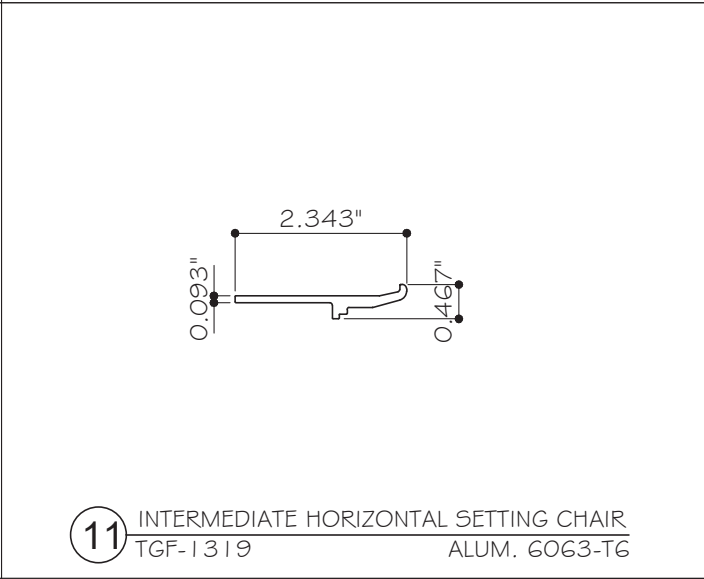
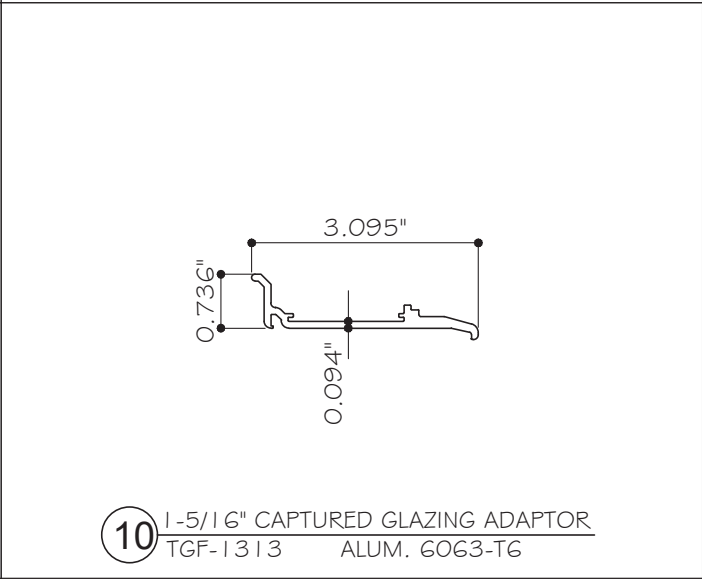
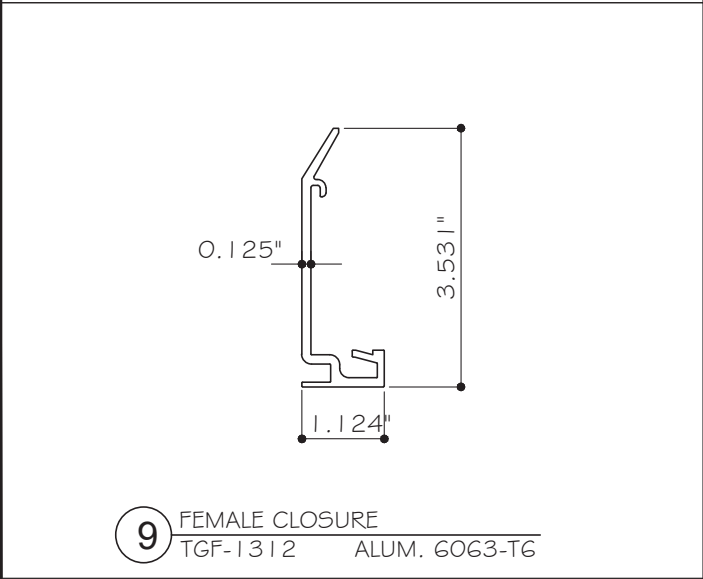
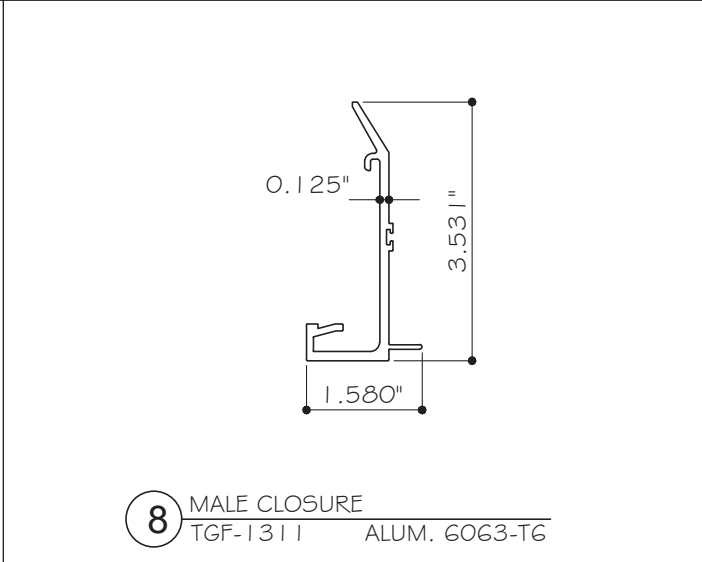
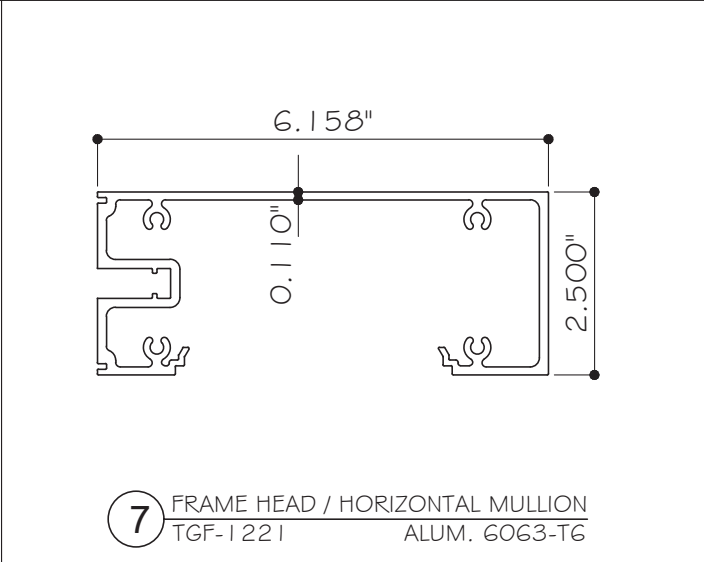
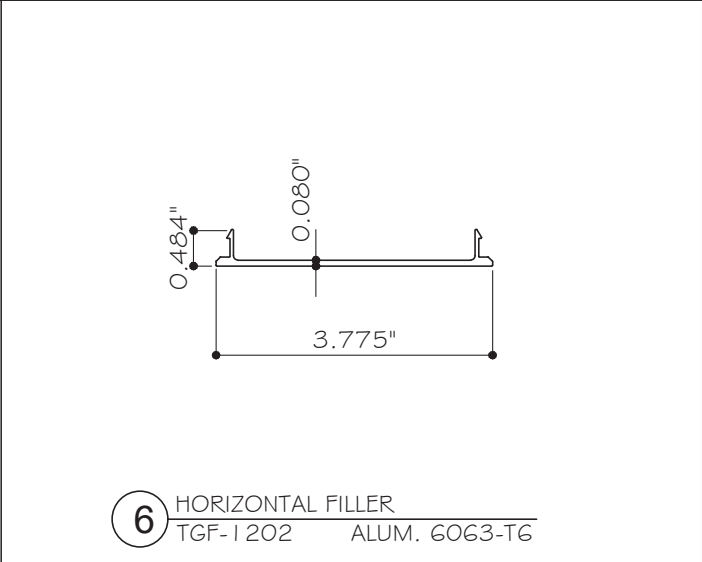
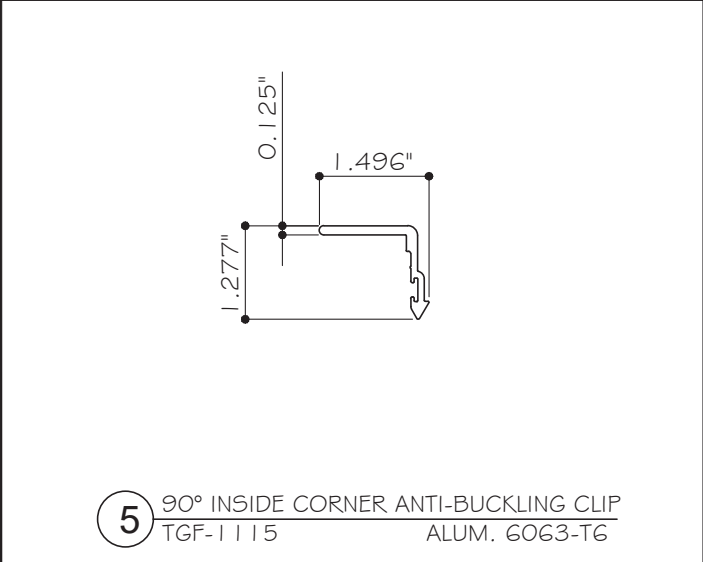
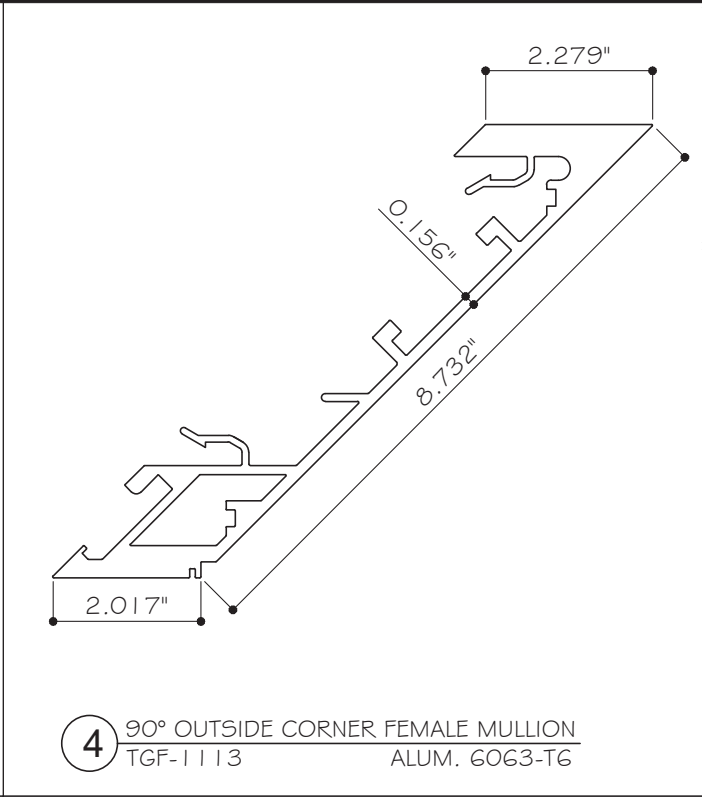
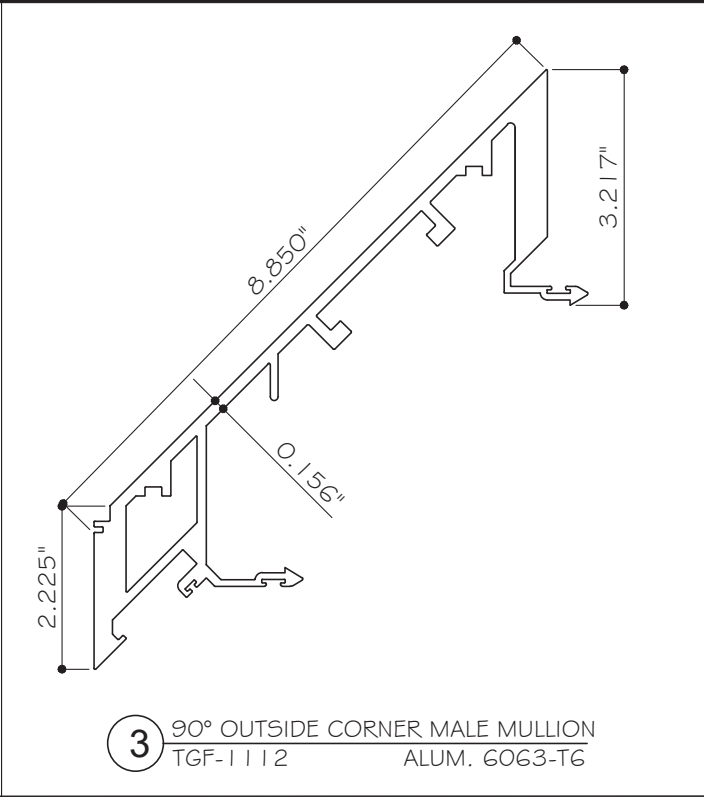
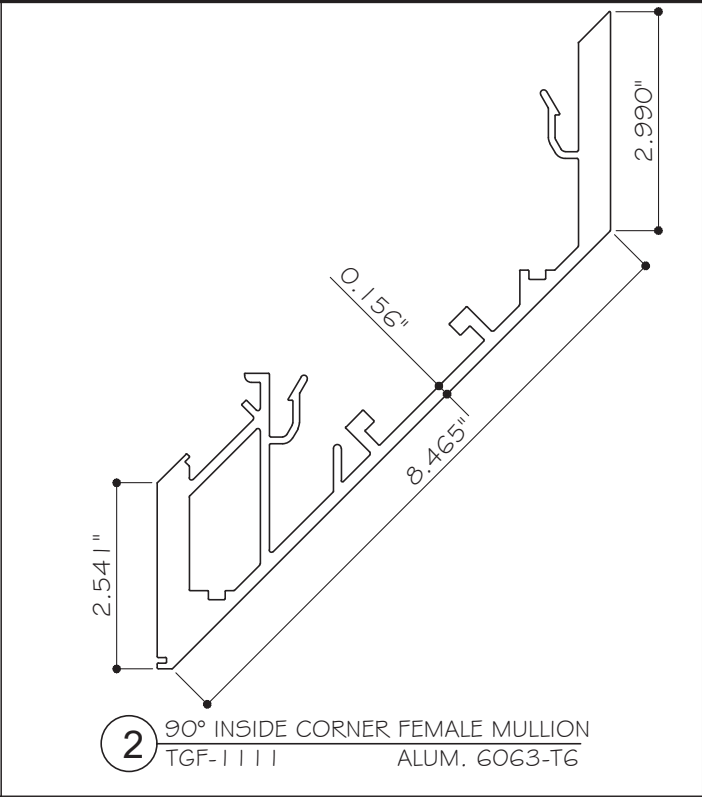
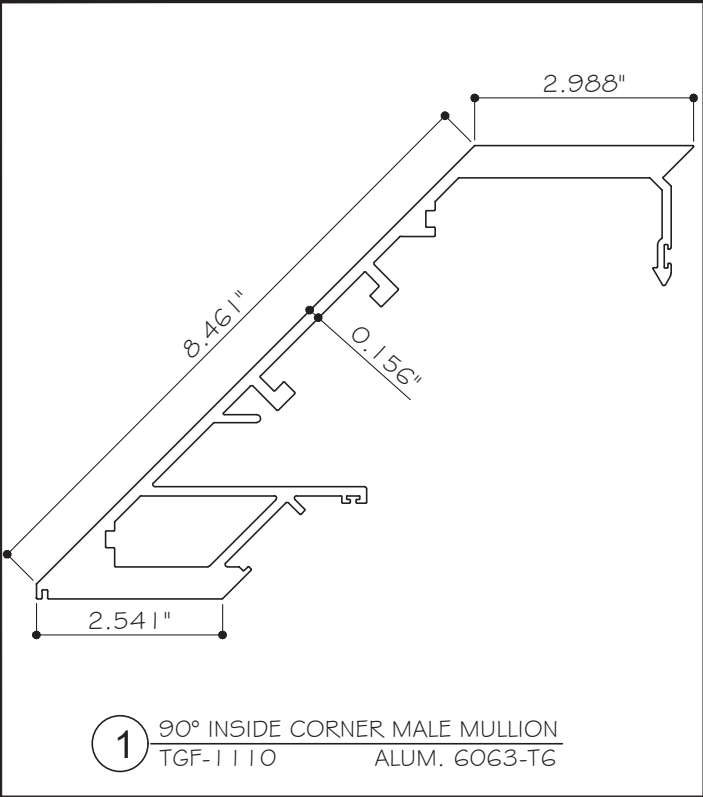
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY, STE. 301 P: 305.271.0117
MIRAMAR, FL 33027 F: 305.588.5224
www.MCYEngineering.com MCY.Engineering@Atl.net

CTW T850B CURTAIN WALL SINGLE SPAN - NON-IMPACT

CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
9195 BOGGY CREEK RD. #1
ORLANDO, FL 32824
PH: (407)-857-9237

D3	
DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	17-052
DRAWING NO. AD17-15	
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FLORIDA APPROVAL:
FL# 23007.1

YIPING WANG, P.E.
FLORIDA REGISTRATION
P. #55983
C.A.N. 28677

No 55983

STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 28th, 2023

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GLAZING CONSULTANTS

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REVISIONS	
NO	DATE

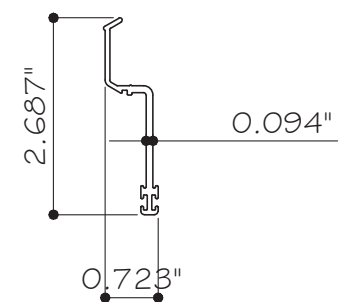
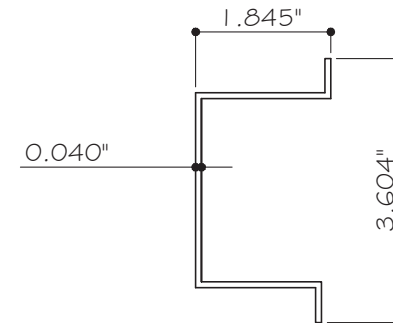
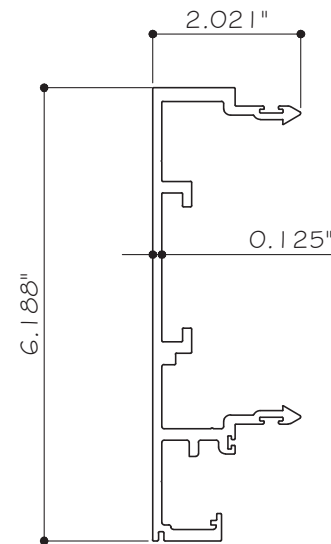
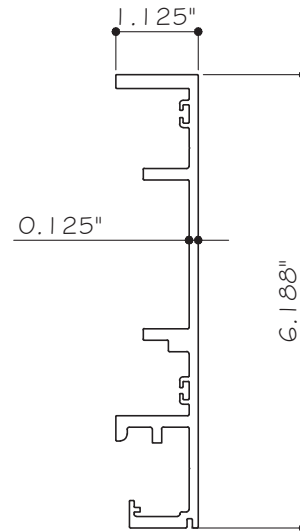
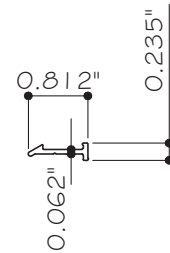
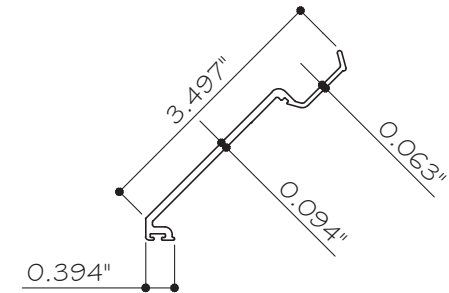
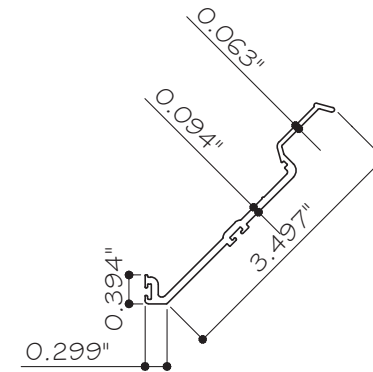
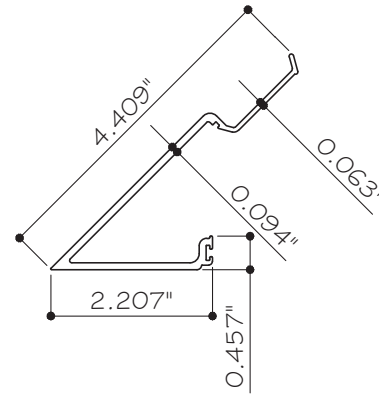
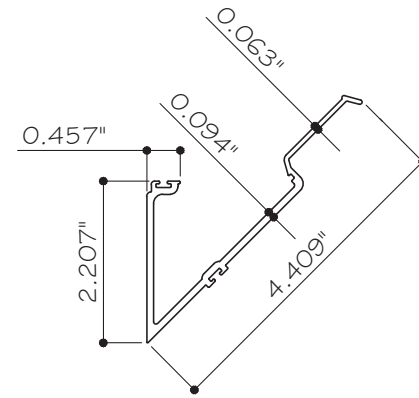
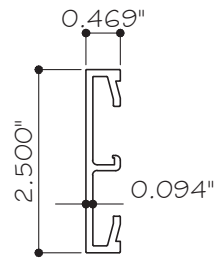
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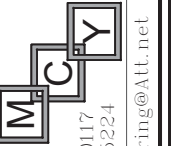
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PARTS

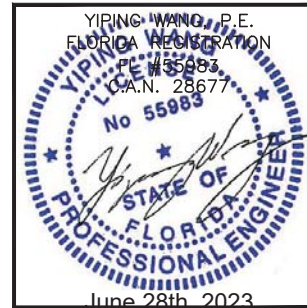
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D17-15

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FLORIDA APPROVAL:
FL# 23007.1

YIPING WANG, P.E.
FLORIDA REGISTRATION
P.E. #55983
C.A.N. 28677



June 28th, 2023

BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	TGF-1110	90° INSIDE CORNER MALE MULLION	ALUM. 6063-T6	TRAINOR
2	TGF-1111	90° INSIDE CORNER FEMALE MULLION	ALUM. 6063-T6	TRAINOR
3	TGF-1112	90° OUTSIDE CORNER MALE MULLION	ALUM. 6063-T6	TRAINOR
4	TGF-1113	90° OUTSIDE CORNER FEMALE MULLION	ALUM. 6063-T6	TRAINOR
5	TGF-1115	90° INSIDE CORNER ANTI-BUCKLING CLIP	ALUM. 6063-T6	TRAINOR
6	TGF-1202	HORIZONTAL FILLER AT HEAD AND INTERMEDIATE	ALUM. 6063-T6	BONNELL
7	TGF-1221	FRAME HEAD / HORIZONTAL MULLION	ALUM. 6063-T6	BONNELL
8	TGF-1311	MALE CLOSURE	ALUM. 6063-T6	BONNELL
9	TGF-1312	FEMALE CLOSURE	ALUM. 6063-T6	BONNELL
10	TGF-1313	1-5/16" CAPTURED GLAZING ADAPTOR	ALUM. 6063-T6	BONNELL
11	TGF-1319	INTERMEDIATE HORIZONTAL SETTING CHAIR	ALUM. 6063-T6	BONNELL
12	TGF-1331	GLAZING COVER	ALUM. 6063-T6	BONNELL
13	TGF-1352	OUTSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM. 6063-T6	TRAINOR
14	TGF-1353	OUTSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM. 6063-T6	TRAINOR
15	TGF-1356	INSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM. 6063-T6	TRAINOR
16	TGF-1357	INSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM. 6063-T6	TRAINOR
17	CTW-1115	ANTI-BUCKLING CLIP, 4" LG.	ALUM. 6005A-T5	CT WINDOWS
18	CTW-1117	MULLION CLIP	ALUM. 6063-T5	CT WINDOWS
19	CTW-1123	FRAME JAMB / MALE VERTICAL MULLION	ALUM. 6063-T6	CT WINDOWS
20	CTW-1124	FRAME JAMB / FEMALE VERTICAL MULLION	ALUM. 6063-T6	CT WINDOWS
21	CTW-1350	ALUMINUM FRAME FILLER	0.040" FORMED ALUMINUM	CT WINDOWS
22	CTW-1361	VERTICAL DRY GASKET ADAPTER	ALUM. 6063-T6	CT WINDOWS
23	SB-1	SETTING BLOCK. 6" LG. (2) PER D.L.O. AT 1/8 POINTS	EPDM 70 DURO	TREMCO
24	F1	#12-14x1-500 HWH SMS	ZINC PLATED STEEL	VARIES
25	F5	#12-14x0-750 HWH SMS	ZINC PLATED STEEL	VARIES
26	AP6	GUTTER SPLICE PLATE	METAL	C.T. WINDOWS
27	S1	DOWSIL 983 OR PROGLAZE II + BASE	SILICONE	DOWSIL/TREMCO
28	S2	DOWSIL 795 OR TREMCO SPECTRUM 2	SILICONE	DOWSIL/TREMCO
29	S3	DOWSIL 791 OR TREMCO SPECTRUM 1	SILICONE	DOWSIL/TREMCO
	S4	DOWSIL 795 OR TREMCO SPECTRUM 2	SILICONE	DOWSIL/TREMCO
31	G1	PRESET WIPER GASKET	EPDM 70 DURO	TREMCO
32	G2	PRESET AIR SEAL BULB GASKET	EPDM 70 DURO	TREMCO
33	G3	PRESET RUN SCREEN GASKET	EPDM 70 DURO	TREMCO
34	G4	GASKET	EPDM 70 DURO	TREMCO
35	G5	GASKET	EPDM 70 DURO	TREMCO
36	G6	PRESET GLASS EDGE BULB GASKET	EPDM 70 DURO	TREMCO
37	G10	GASKET	EPDM 70 DURO	TREMCO
38	-	SPACER	ALUM.	ALL METAL. INC.
39	CTW-1352	ALUMINUM FRAME FILLER	ALUM.	BONNEL

FLORIDA APPROVAL:
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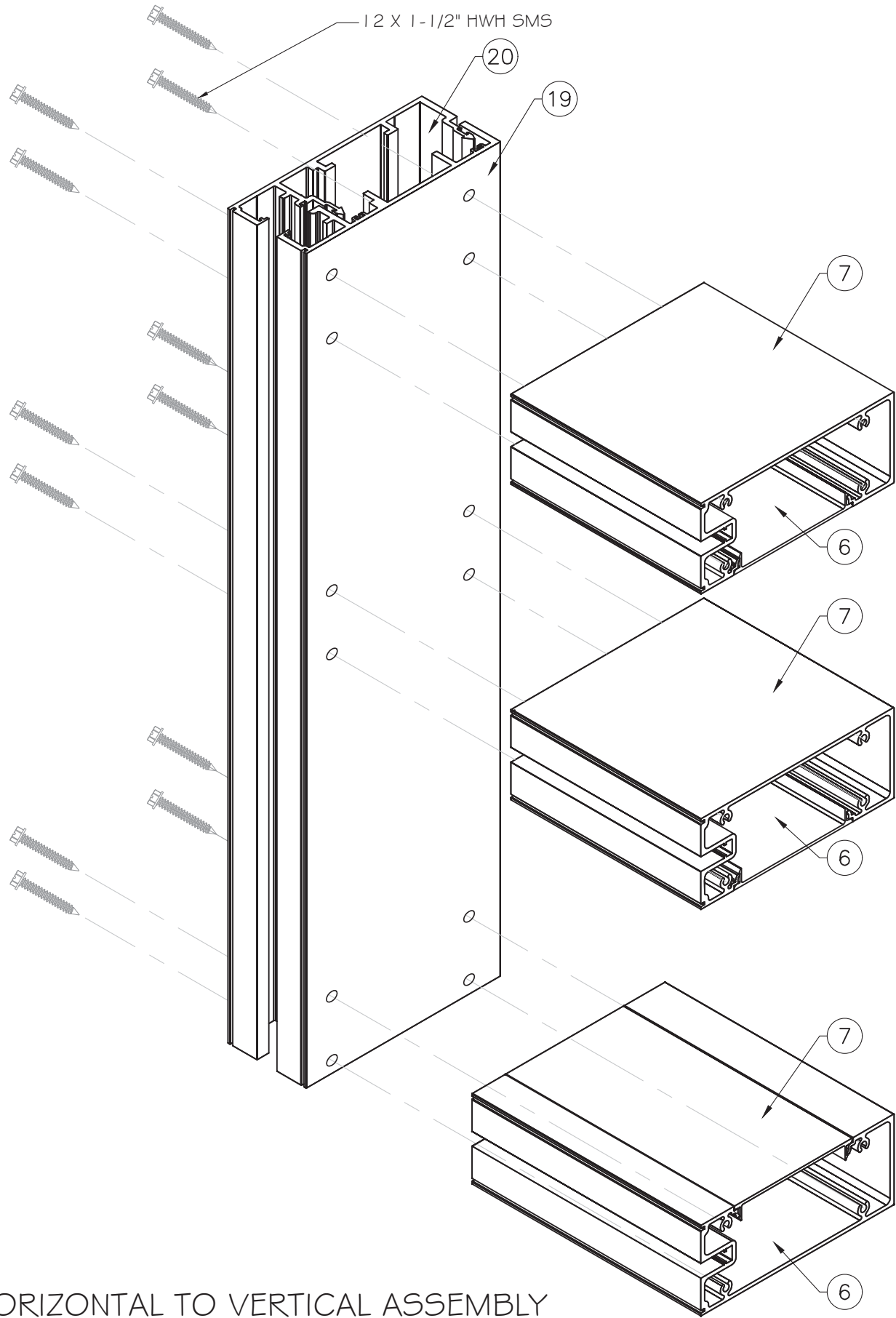
REVISIONS

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HORIZONTAL TO VERTICAL ASSEMBLY

FLORIDA APPROVAL:
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YIPING WU, P.E.
FLORIDA REGISTRATION
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