

CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES
T850B WINDOW WALL SYSTEMS-WZ2
LARGE & SMALL MISSILE IMPACT

WINDOW WALL SYSTEM RATED FOR LARGE AND SMALL MISCIBLE IMPACT.

SERIES T850B WINDOW WALL
THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020) INSIDE OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

LARGE MISSILE IMPACT CURTAIN WALL SYSTEM TO BE USED AT ELEVATIONS BELOW 30'-0" OF GRADE LEVEL. FOR ELEVATIONS 30'-0" ABOVE GRADE LEVEL, SMALL MISSILE IMPACT SYSTEM TO BE USED.

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 C.T. 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 FOR MAXIMUM SIZES.

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 OR CHART 2A ON SHEET G2 FOR DESIGN LOAD CAPACITY DUE TO STRUCTURAL SILICONE.

STEP 4: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET M1 THRU M2. THE CAPACITY SHOULD EXCEED THE JOB REQUIRED DESIGN LOAD.

STEP 5: ANCHOR OPTION SEE SHEET A1 THRU A4 FOR TYPICAL HEAD & SILL ANCHOR TO COVER ALL CONDITIONS.

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

STEP 7: FOR ANCHOR CONDITION IN JOB EXCEEDS THE APPROVED LOAD, TO BE ENGINEERED SEPARATELY

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
E.J. - EXPANSION JOINT
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
O.S. - OUTSIDE
S.S. - STAINLESS STEEL

CL - CENTER LINE
H.S. - HEAT STRENGTHENED
SSG - STRUCTURAL SILICONE
GLAZED
TEMP. - TEMPERED
O.C. - ON CENTER
DL - DEADLOAD ANCHOR
I.S. - INSIDE
WL - WIND LOAD
DL - DEAD LOAD
SECTION NUMBER



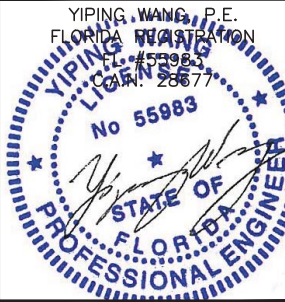
SHEET NUMBER

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#23007.2



T850B WINDOW WALL (LMI & SMI)

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	A.O.
PROJECT	17-074

DRAWING NO.

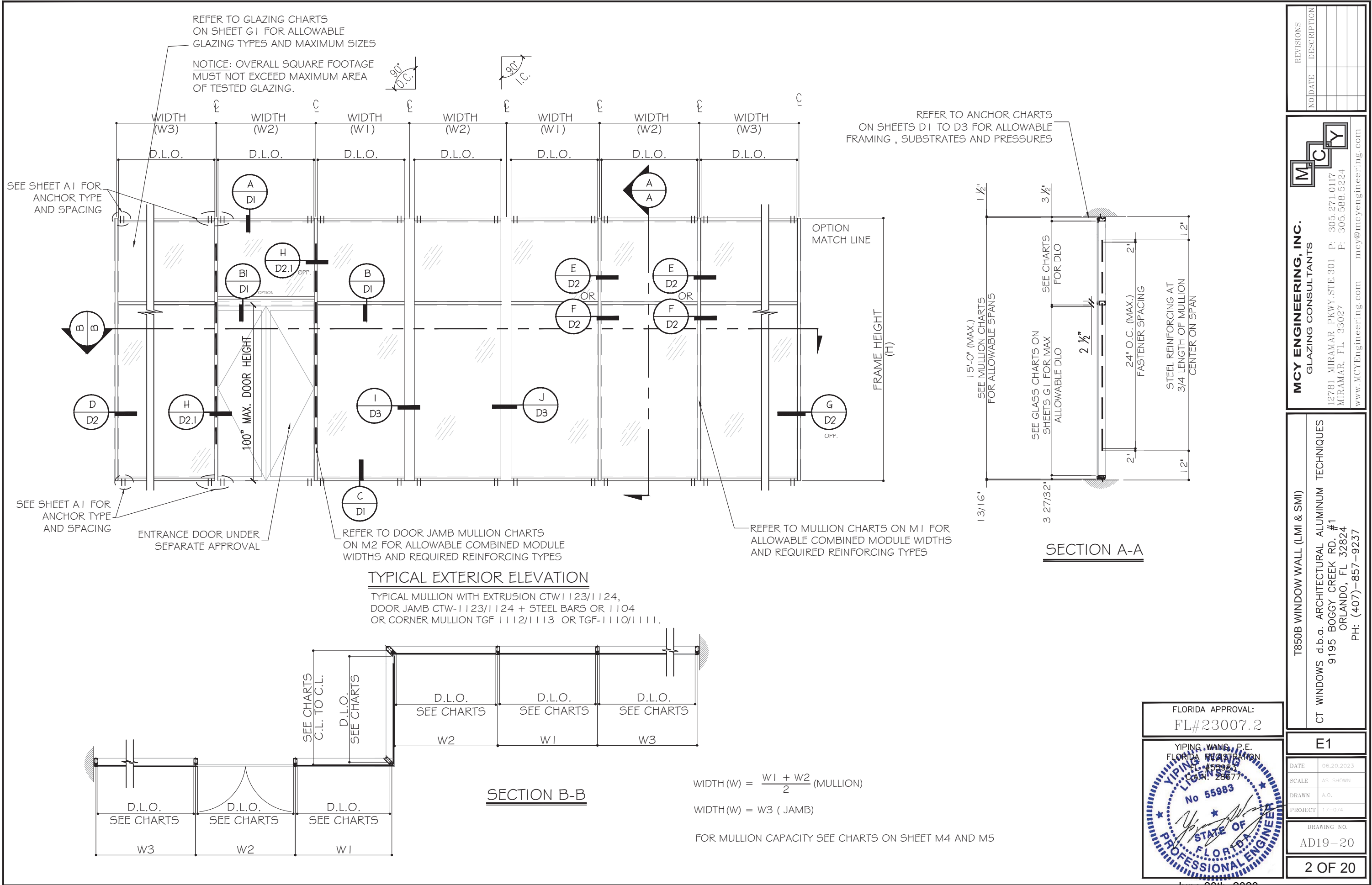
AD19-20

1 OF 20

REVISIONS	
NO	DATE DESCRIPTION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301 P: 305.271.0117
MIRAMAR, FL 33027 P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com



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NO	DATE

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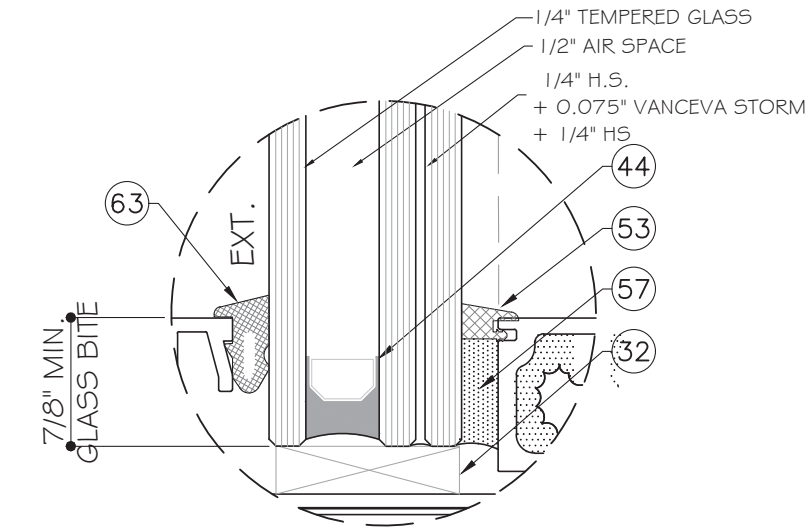
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E1	
DATE	06.20.2023
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PROJECT	17-074
DRAWING NO.	
AD19-20	
2 OF 20	

CHART I

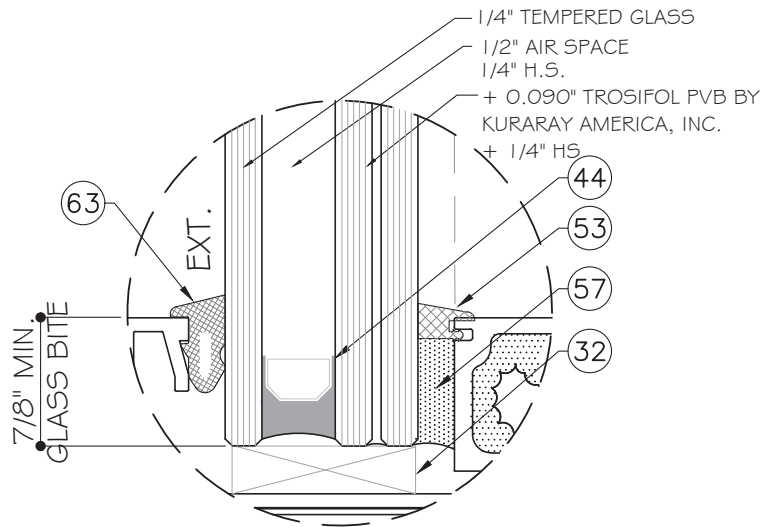
GLASS LOAD CAPACITY - PSF				
DAYLIGHT OPENING SIZE		GLASS TYPES		
D.L.O. H. (IN.)	D.L.O. W. (IN.)	G1 (LMI)	G1A (LMI)	G2 (SMI)
97	39.5	65	60	65
	45.5	65	60	65
	51.5	65	60	65
	57.5	65	60	65
	63.5	65	-	65
103	69.5	65	-	66
	33.5	65	60	65
	39.5	65	60	65
	45.5	65	60	65
	51.5	65	60	65
109	57.5	65	60	65
	63.5	65	-	66
	33.5	65	60	65
	39.5	65	60	65
	45.5	65	60	65
115	51.5	65	60	65
	57.5	65	-	65
	33.5	65	60	65
	39.5	65	60	65
	45.5	65	60	65
117.5	51.5	65	-	65
	57.5	65	-	65
	33.5	65	60	65
	39.5	65	60	65
	45.5	65	60	65
121	51.5	65	-	65
	33.5	65	60	65
	39.5	65	60	65
	45.5	65	60	65
	51.5	65	-	65
127	33.5	65	60	65
	39.5	65	60	65
	45.5	65	60	65
	51.5	65	-	65
	33.5	65	60	65
133	39.5	65	60	65
	45.5	65	-	65
	33.5	65	60	65
	39.5	65	60	65
	45.5	65	-	65
139	33.5	65	60	65
	39.5	65	60	65
	45.5	65	-	65
	33.5	65	60	65
	39.5	65	60	65

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



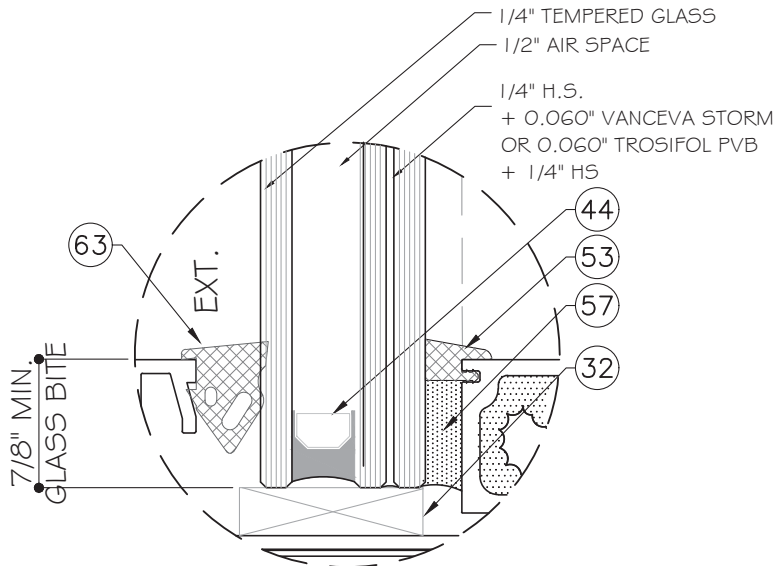
GLASS TYPE "G1"
1 - 1 5/16" NOMINAL OVERALL

LARGE MISSILE IMPACT



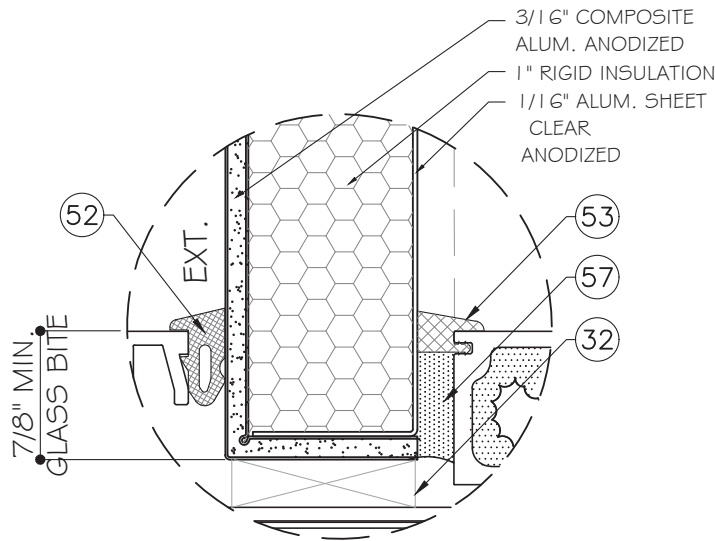
GLASS TYPE "G1A"
1 - 1 5/16" NOMINAL OVERALL

LARGE MISSILE IMPACT



GLASS TYPE "G2"
1 - 1/8" NOMINAL OVERALL

SMALL MISSILE IMPACT



METAL PANEL
1 - 5/16" NOMINAL OVERALL
MAX. D.L.O. = 57.5" WIDTH X 63" HEIGHT
PD = +/- 65.0 PSF

SMALL MISSILE IMPACT

FLORIDA APPROVAL:
FL#23007.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
Exp. 12/31/2024

DATE: 06.20.2023
SCALE: AS SHOWN
DRAWN: A.O.
PROJECT: 17-074

DRAWING NO.
AD19-20

3 OF 20

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NO.	DATE

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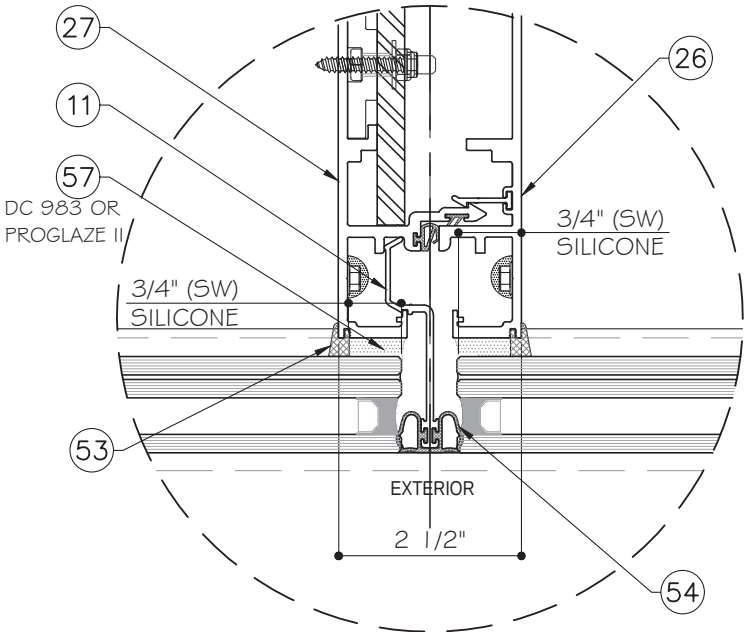
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G1	
DATE	06.20.2023
SCALE	AS SHOWN
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PROJECT	17-074
DRAWING NO. AD19-20	
3 OF 20	

CHART 2

SILICONE CAPACITY FOR SSG MULLION		
SILICONE WITH (SW)	MULLION SPACING (ℓ-ℓ)	PD ALLOW.
		PSF(+/-)
3/4"	36	65
	42	65
	48	65
	54	65
	60	65
	66	65
	72	60



SSG DETAIL
AT MULLION

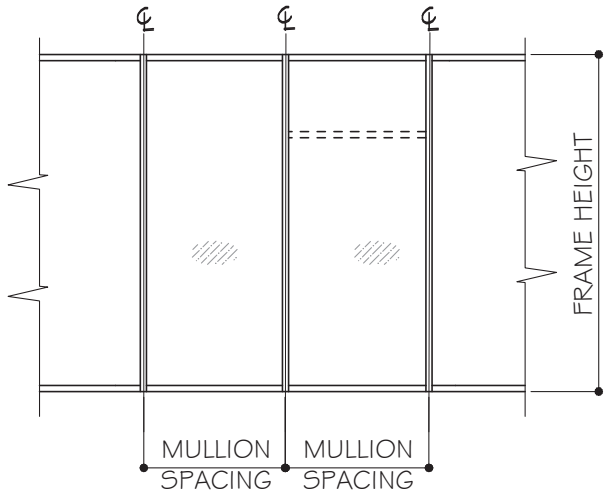
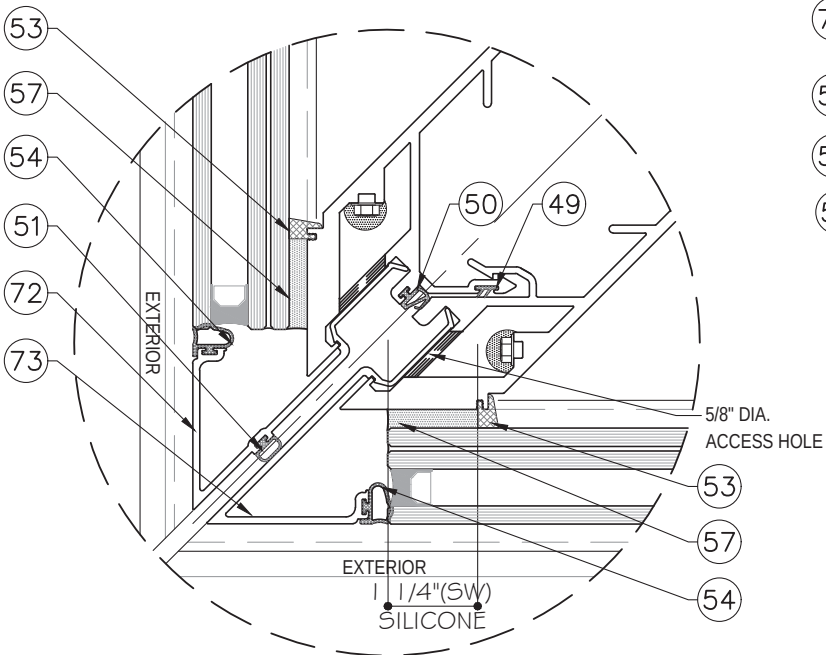
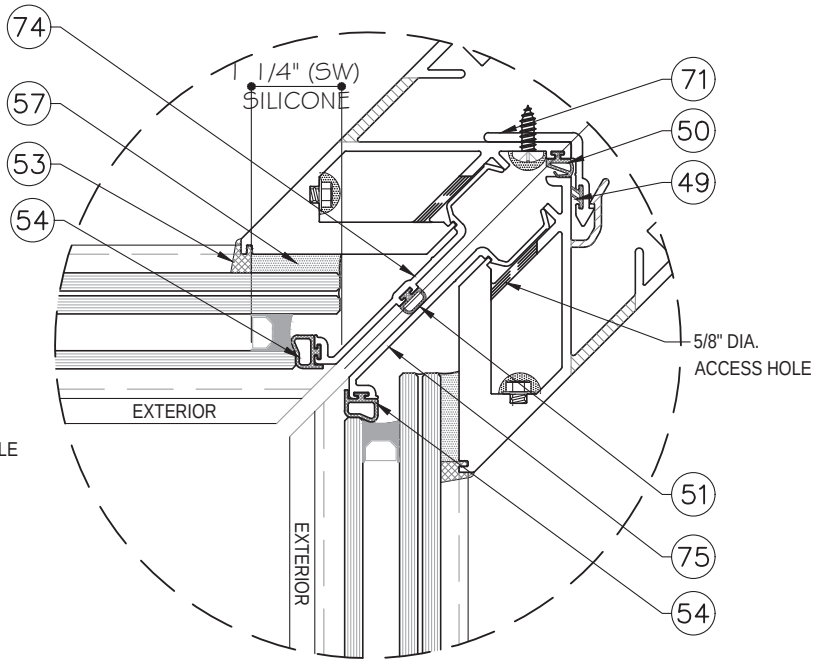


CHART 2A

SILICONE CAPACITY AT CORNER MULLION		
SILICONE WITH (SW)	MULLION SPACING (ℓ-ℓ)	PD ALLOW.
		PSF(+/-)
1 - 1/4"	36	65
	42	65
	48	65
	54	65
	60	65
	66	65
	72	65



CORNER MULLION
DETAIL



CORNER MULLION
DETAIL

FLORIDA APPROVAL:
FL#23007.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
Exp. 2027

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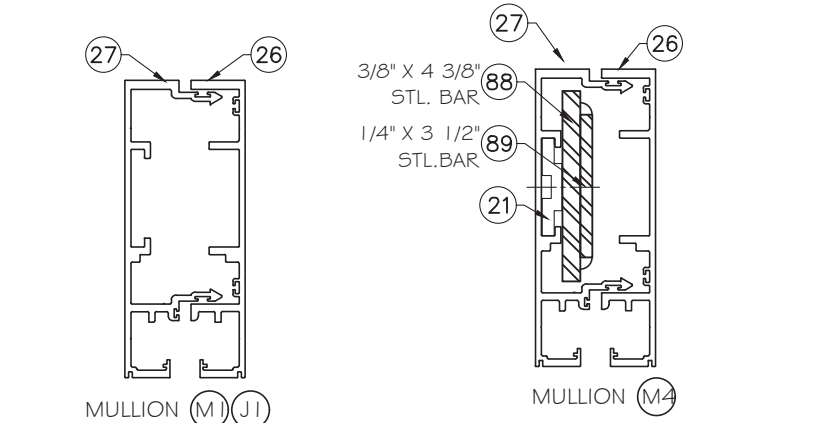
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G2	
DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	17-074
DRAWING NO.	
AD19-20	
4 OF 20	

CHART 6

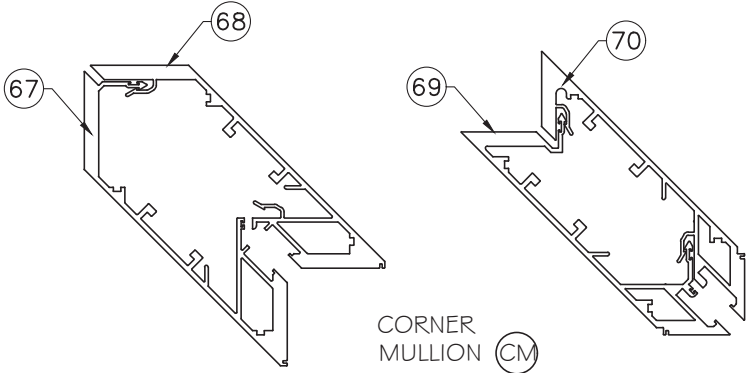
SINGLE SPAN MULLION-DESIGN LOAD CAPACITY			
NOMINAL DIMENSIONS		LMI & SMI	
FRAME HEIGHT (in)	MULLION WIDTH (W) (in)	'M1' (+/-) psf.	'M4', 'CM', 'J1' (+/-) psf.
90	30	60	65
	36	60	65
	42	60	65
	48	60	65
	54	60	65
	60	60	65
	66	60	65
	72	59	65
96	30	60	65
	36	60	65
	42	60	65
	48	60	65
	54	60	65
	60	60	65
	66	60	65
	72	56	65
102	30	60	65
	36	60	65
	42	60	65
	48	60	65
	54	60	65
	60	60	65
	66	57	65
	72	52	65
108	30	60	65
	36	60	65
	42	60	65
	48	60	65
	54	60	65
	60	56	65
	66	51	65
	72	47	65
114	30	60	65
	36	60	65
	42	60	65
	48	60	65
	54	56	65
	60	51	65
	66	46	65
	72	42	65
120	30	60	65
	36	60	65
	42	60	65
	48	57	65
	54	51	65
	60	46	65
	66	41	65
	72	38	65
126	30	60	65
	36	60	65
	42	59	65
	48	52	65
	54	46	65
	60	41	65
	66	38	65
	72	34	65
132	30	60	65
	36	60	65
	42	54	65
	48	47	65
	54	42	65
	60	38	65
	66	34	65
	72	31	64

SINGLE SPAN MULLION-DESIGN LOAD CAPACITY			
NOMINAL DIMENSIONS		LMI & SMI	
FRAME HEIGHT (in)	MULLION WIDTH (W) (in)	'M1' (+/-) psf.	'M4', 'CM', 'J1' (+/-) psf.
138	30	60	65
	36	57	65
	42	49	65
	48	43	65
	54	38	65
	60	34	65
	66	31	66
	72	-	61
144	30	60	65
	36	53	65
	42	45	65
	48	40	65
	54	35	65
	60	32	65
	66	29	64
	72	-	59
150	30	58	65
	36	49	65
	42	42	65
	48	36	65
	54	32	65
	60	29	65
	66	27	61
	72	-	56
156	30	54	65
	36	45	65
	42	39	65
	48	34	65
	54	30	65
	60	27	65
	66	25	59
	72	-	54
162	30	50	65
	36	42	65
	42	36	65
	48	31	65
	54	28	65
	60	25	59
	66	-	54
	72	-	49
168	30	47	65
	36	39	65
	42	33	65
	48	29	65
	54	26	59
	60	-	53
	66	-	48
	72	-	44
174	30	43	65
	36	36	65
	42	31	65
	48	27	59
	54	-	53
	60	-	48
	66	-	43
	72	-	40
180	30	41	65
	36	34	65
	42	29	61
	48	25	54
	54	-	48
	60	-	43
	66	-	39
	72	-	36



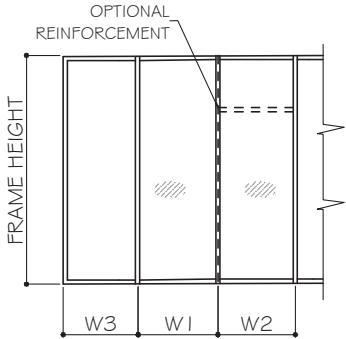
M1, J1	Ix IN^4	Sx IN^3
29 CT-1123	7.7187	2.4679
27 CT-1124	6.5449	2.0757
TOTAL	14.2636	-

M4	Ix IN^4	Sx IN^3
29 CT-1123	7.7187	2.4679
27 CT-1124	6.5449	2.0757
88 R3 (STEEL)	2.6169	1.1963
89 R4 (STEEL)	0.8932	0.5104
TOTAL	24.4429	-
Ix ALUM + STL x 2.9		



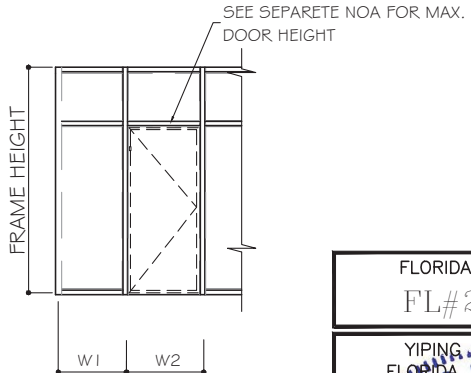
CM-1	Ix IN^4	Sx IN^3
67 TGF-1110	34.4318	6.9104
68 TGF-1111	27.3697	8.5221
TOTAL	61.8015	-

CM-O	Ix IN^4	Sx IN^3
69 TGF-1112	22.6853	6.3025
70 TGF-1113	24.7377	5.6901
TOTAL	47.4230	-



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

WIDTH (W) = W3
AT JAMB



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

FLORIDA APPROVAL:
FL#23007.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
Exp. 12/31/2025

STATE OF FLORIDA
PROFESSIONAL ENGINEER

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NO	DATE

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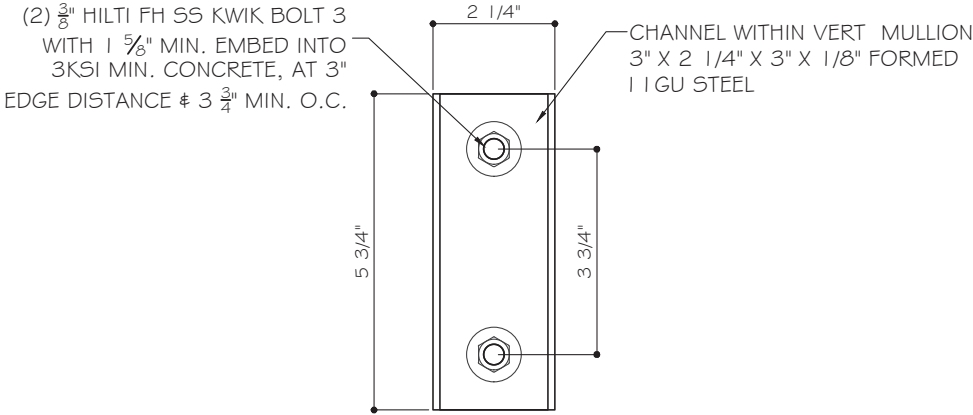
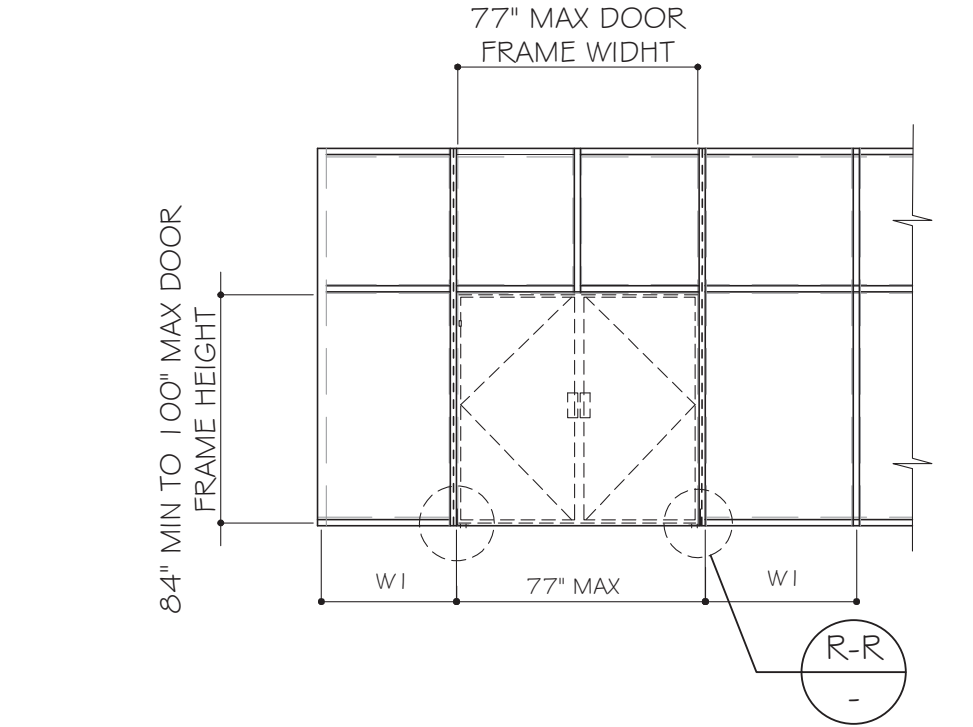
M1	
DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	17-074

DRAWING NO.
AD19-20

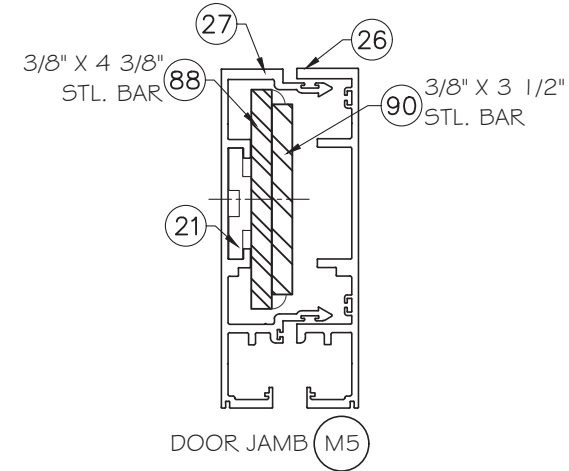
5 OF 20

CHART 6

DOOR JAMB MULLION DESING LOAD CAPACITY		
FRAME HEIGHT (in)	SIDELITE WIDTH (in)	DJM 'M5'
		(+/-) psf.
120	30	65
	36	65
	42	65
	48	65
	54	65
	60	65
	66	65
	72	65
132	30	65
	36	65
	42	65
	48	65
	54	65
	60	65
	66	65
	72	65
144	30	65
	36	65
	42	65
	48	65
	54	65
	60	65
	66	62
	72	59
156	30	65
	36	65
	42	65
	48	63
	54	60
	60	57
	66	55
	72	53
168	30	60
	36	57
	42	55
	48	52
	54	50
	60	48
	66	46
	72	44
180	30	51
	36	49
	42	46
	48	44
	54	43
	60	41
	66	39
	72	38



R-R
-
DETAIL
STEEL CHANNEL
ATTACHEMENT AT DOOR SIDE



M5	Ix IN ^ 4	Sx IN ^ 3
26 CT-1123	7.7187	2.4679
27 CT-1124	6.5449	2.0757
88 R3 (STEEL)	2.6169	1.1963
90 R5 (STEEL)	1.3398	0.7656
TOTAL	25.7380	-
Ix ALUM + STL x 2.9		

FLORIDA APPROVAL:
FL#23007.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
No 55983
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

June 20th, 2023

REVISIONS
NO. DATE DESCRIPTION

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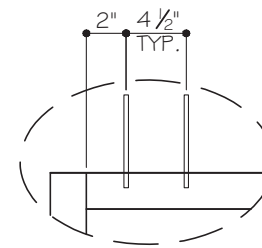
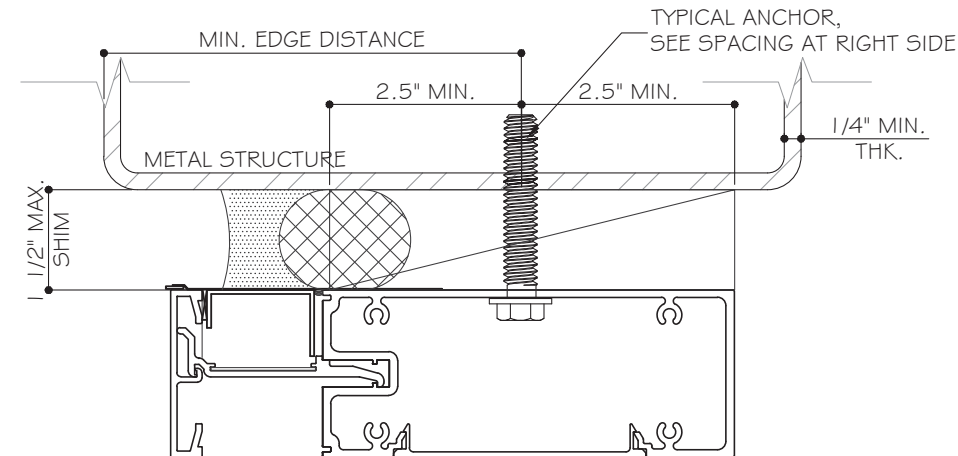
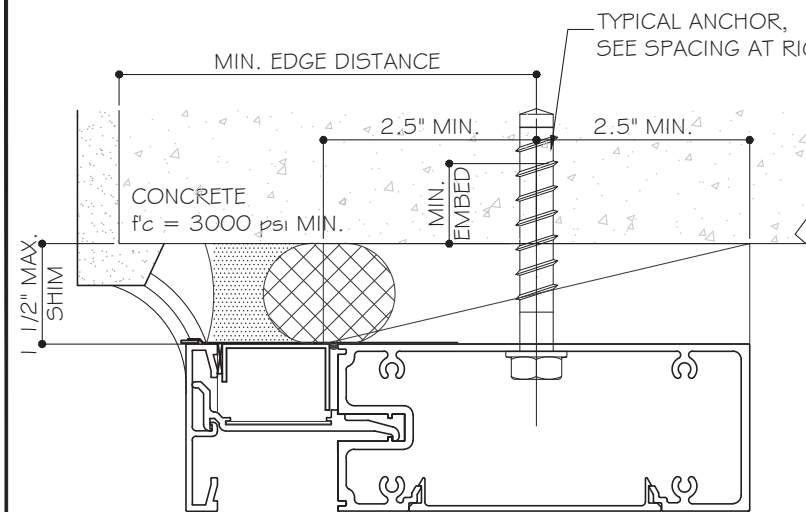
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M2

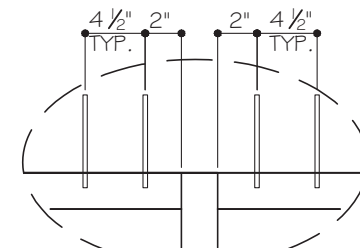
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SCALE AS SHOWN
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6 OF 20



HEAD ANCHOR TYPE "A" OR "B"
AT JAMB



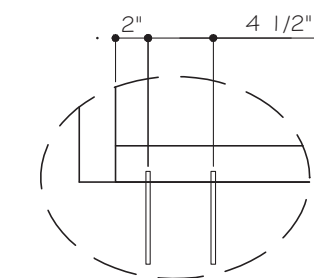
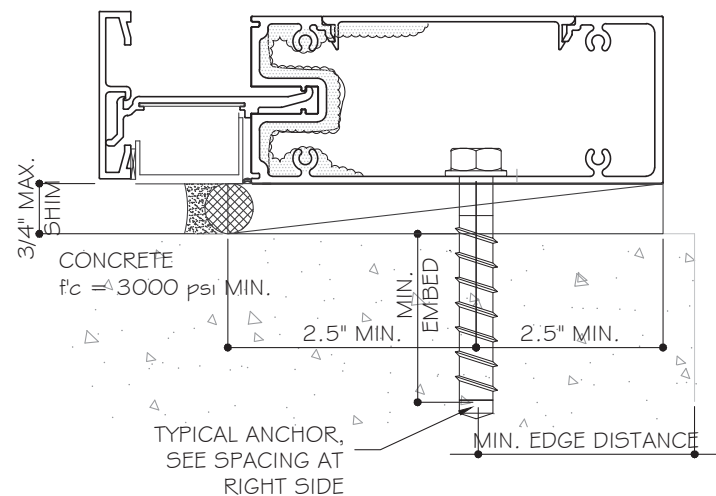
HEAD ANCHOR TYPE "A" OR "B"
AT MULLION

TYPICAL ANCHORS AT HEAD:

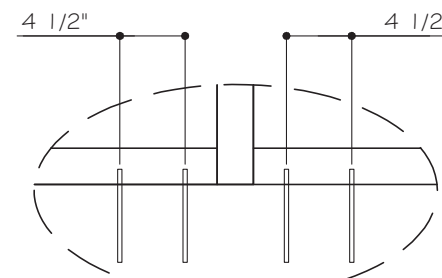
TYPE "A": 1/2" DIA. HILTI KWIK HUS-EZ ($F_u = 112.5$ KSI, $F_y = 88.5$ KSI)
3" MIN. EMBED DIRECTLY INTO $f'_c = 3$ KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE
@ 4 1/2" MIN. O.C.

TYPE "B": 1/2" DIA. ELCO TAP-FLEX ($F_u = 120$ KSI, $F_y = 92$ KSI)
DIRECTLY INTO 1/4" MIN. THK. STEEL STRUCTURE (A36 MIN.)
1-1/2" MIN. EDGE DISTANCE @ 3" MIN. O.C.

FOR ANCHOR CONDITION
DIFFERENT TO APPROVED,
TO BE ENGINEERED SEPARATELY.



SILL ANCHOR TYPE "AA"
AT JAMB

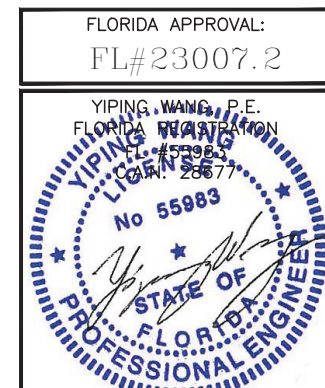


SILL ANCHOR TYPE "AA"
AT MULLION

TYPICAL ANCHOR AT SILL:

TYPE "AA": 1/2" DIA. HILTI KWIK HUS-EZ ($F_u = 112.5$ KSI, $F_y = 88.5$ KSI)
3" MIN. EMBED DIRECTLY INTO $f'_c = 3$ KSI MIN. CONCRETE
4" MIN. EDGE DISTANCE
@ 4-1/2" MIN. O.C.

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



REVISIONS	NO.	DATE	DESCRIPTION

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

MCY

12781 MIRAMAR PKWY. STE. 301 P: 305.271.0117
MIRAMAR, FL 33027 P: 305.588.5224
www.MCYEngineering.com mcy@mcysengineering.com

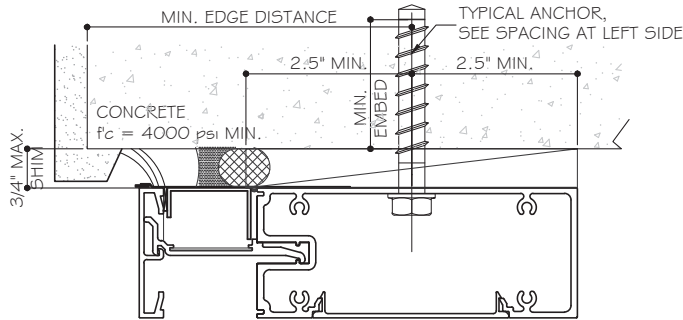
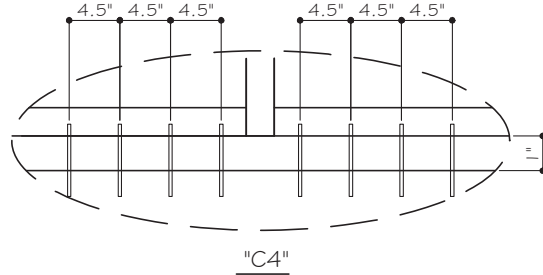
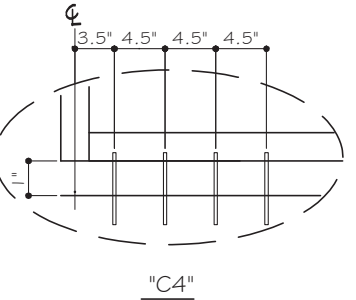
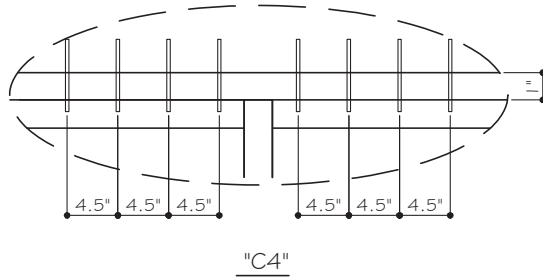
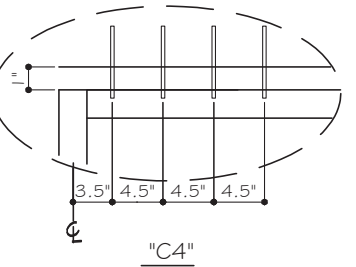
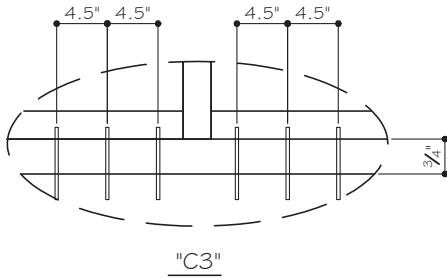
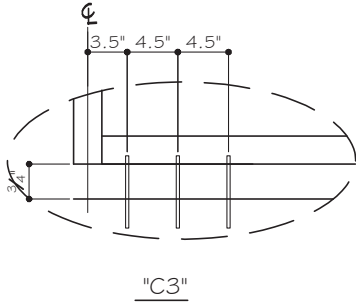
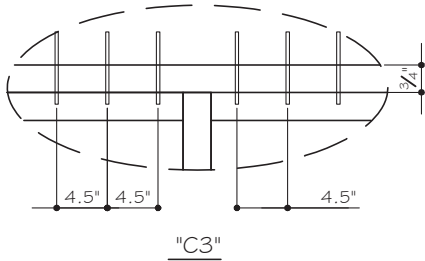
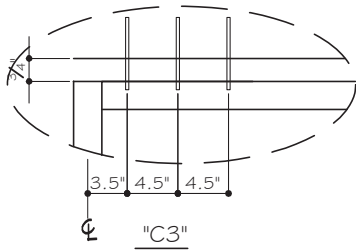
T850B WINDOW WALL (LMI & SMI)

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

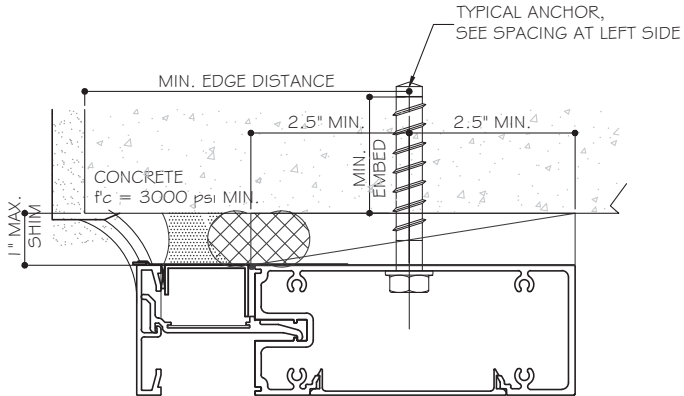
DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	17-074
DRAWING NO.	AD19-20
	7 OF 20

TYPICAL ANCHORS AT HEAD:

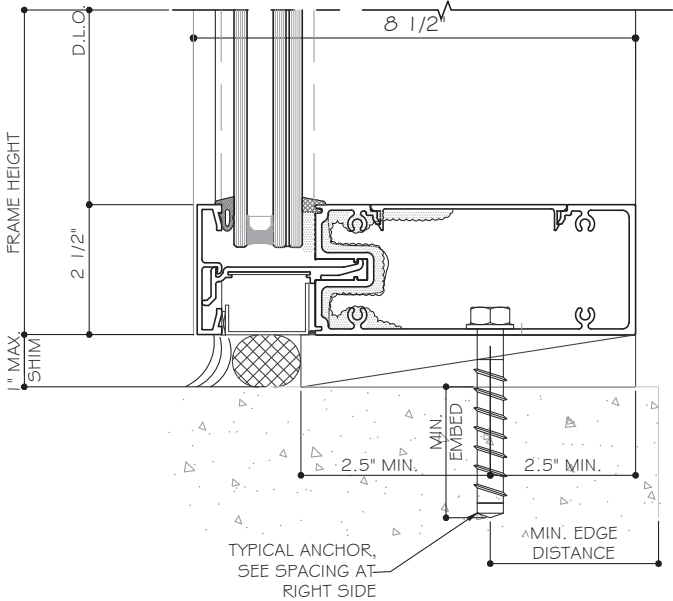
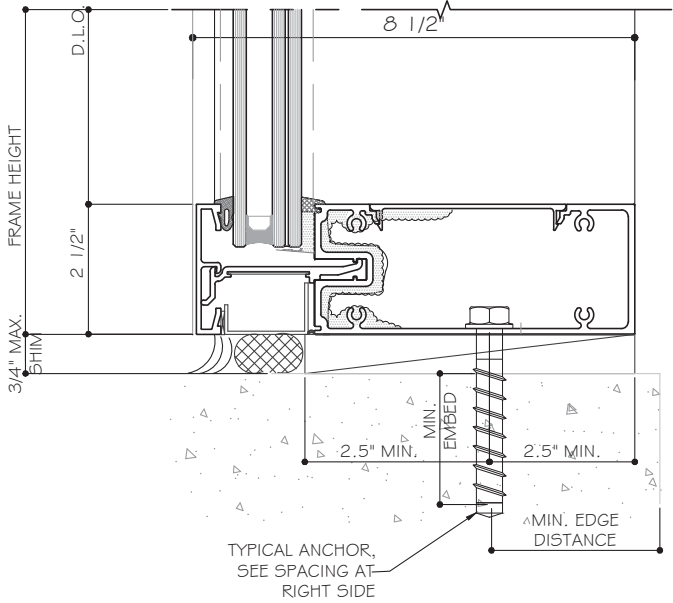
TYPE "C": 3/8" DIA. WEDGE BOLT (Fu = 100 KSI, Fy = 65 KSI)
2-1/4" MIN. EMBED DIRECTLY INTO fc'=4 KSI MIN. CONCRETE
3" MIN. EDGE DISTANCE
UP TO 3/4" SHIM.



WIND LOAD ANCHOR



WIND LOAD ANCHOR



FLORIDA APPROVAL:
FL#23007.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
No 55983
Exp. 2027

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

REVISIONS	
NO	DATE

MCY
ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY, STE. 301
MIRAMAR, FL 33027

P: 305.271.0117
P: 305.588.5224

www.MCYEngineering.com
mcy@mcyengineering.com

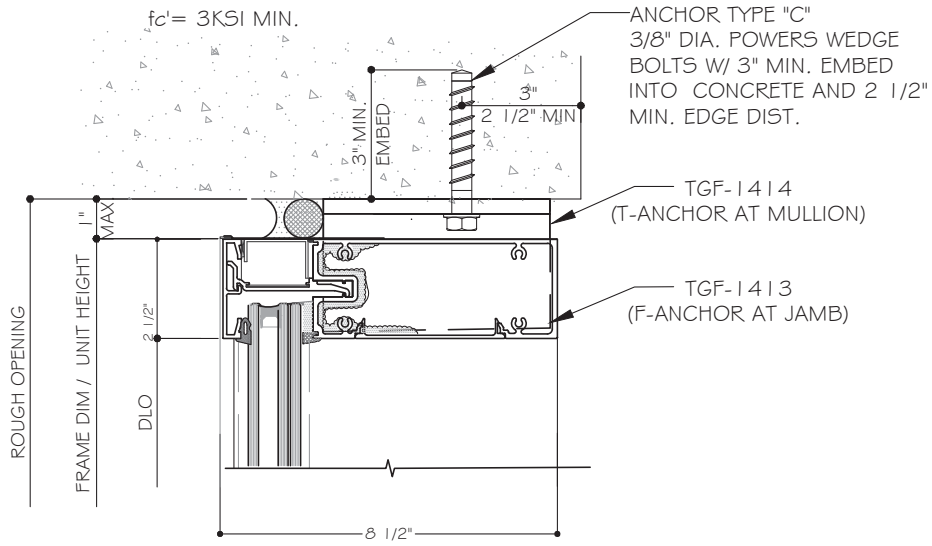
T850B WINDOW WALL (LMI & SMI)

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

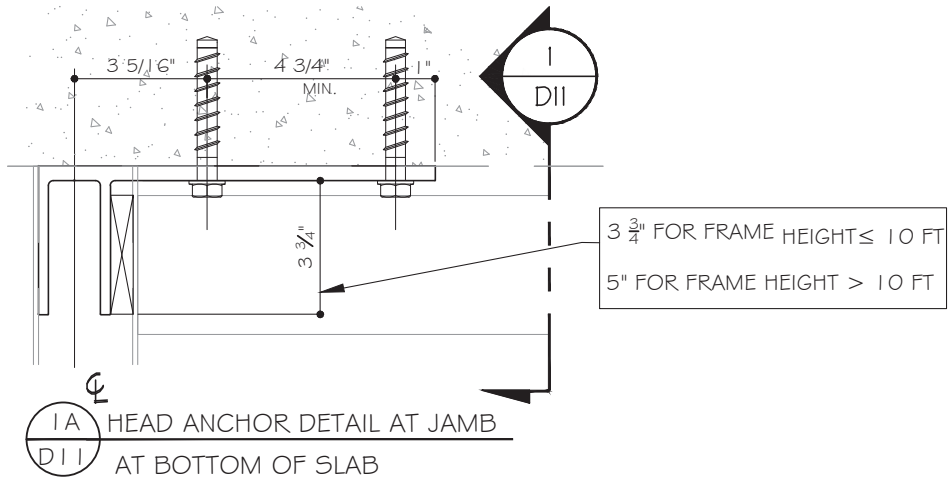
A1.1	
DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	17-074
DRAWING NO.	
AD19-20	
8 OF 20	

HEAD ANCHOR CAPACITY - PSF			
NOMINAL DIMENSION		ANCHOR TYPE C	
MULLION SPACING (IN.) (W)	FRAME HEIGHT (IN.) (L)	W/ "T" CLIP EXT. (+) INT. (-)	W/ "F" CLIP EXT. (+) INT. (-)
54	78	65.0	65.0
57		65.0	65.0
60		64.1	65.0
64		60.1	65.0
68		56.5	65.0
70		54.9	65.0
80		48.0	65.0
54	84	65.0	65.0
57		62.6	65.0
60		59.5	65.0
64		55.8	65.0
68		52.5	65.0
70		51.0	65.0
80		44.6	65.0
30	90	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		61.7	65.0
54		55.5	65.0
60		50.5	65.0
72		46.3	65.0
30	96	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		65.0	65.0
54		57.8	65.0
60		52.1	65.0
66		47.3	65.0
72		43.4	65.0
30	102	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		61.2	65.0
54		54.4	65.0
60		49.0	65.0
66		44.5	65.0
72		40.8	65.0
30	108	65.0	65.0
36		65.0	65.0
42		65.0	65.0
48		57.8	65.0
54		51.4	65.0
60		46.3	65.0
66		42.1	65.0
72		38.6	65.0
30	114	65.0	65.0
36		65.0	65.0
42		62.6	65.0
48		54.8	65.0
54		48.7	65.0
60		43.8	65.0
66		39.8	65.0
72		36.5	65.0
30	120	65.0	65.0
36		65.0	65.0
42		59.5	65.0
48		52.1	65.0
54		46.3	65.0
60		41.6	65.0
66		37.9	65.0
72		34.7	65.0
30	126	65.0	65.0
36		65.0	65.0
42		56.7	65.0
48		49.6	65.0
54		44.1	65.0
60		39.7	65.0
66		36.1	65.0
72		33.0	65.0

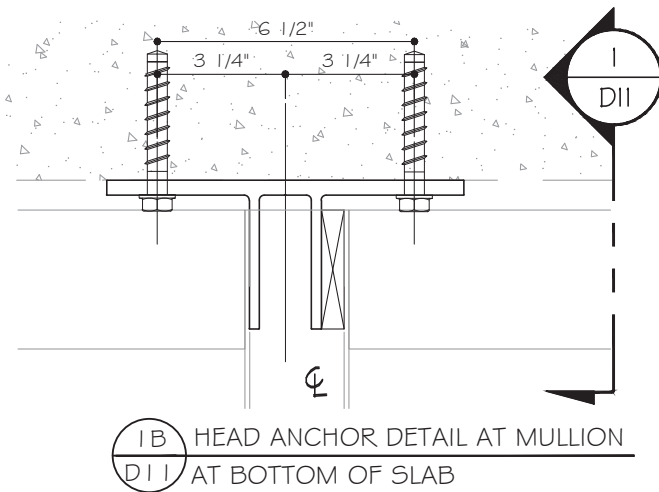
HEAD ANCHOR CAPACITY - PSF			
NOMINAL DIMENSION		ANCHOR TYPE C	
MULLION SPACING (IN.) (W)	FRAME HEIGHT (IN.) (L)	W/ "T" CLIP EXT. (+) INT. (-)	W/ "F" CLIP EXT. (+) INT. (-)
30	132	65.0	65.0
36		63.1	65.0
42		54.1	65.0
48		47.3	65.0
54		42.1	65.0
60		37.9	65.0
66		34.4	65.0
72		31.5	63.1
30	138	65.0	65.0
36		60.3	65.0
42		51.7	65.0
48		45.3	65.0
54		40.2	65.0
60		36.2	65.0
66		32.9	65.0
72		30.2	60.3
30	144	65.0	65.0
36		57.8	65.0
42		49.6	65.0
48		43.4	65.0
54		38.6	65.0
60		34.7	65.0
66		31.5	63.1
72		28.9	57.8
30	150	65.0	65.0
36		55.5	65.0
42		47.6	65.0
48		41.6	65.0
54		37.0	65.0
60		33.3	65.0
66		30.3	60.6
72		27.8	55.5
30	156	64.1	65.0
36		53.4	65.0
42		45.8	65.0
48		40.0	65.0
54		35.6	65.0
60		32.0	64.1
66		29.1	58.2
72		26.7	53.4
30	162	61.7	65.0
36		51.4	65.0
42		44.1	65.0
48		38.6	65.0
54		34.3	65.0
60		30.8	61.7
66		28.0	56.1
72		25.7	51.4
30	168	59.5	65.0
36		49.6	65.0
42		42.5	65.0
48		37.2	65.0
54		33.0	65.0
60		29.7	59.5
66		27.0	54.1
72		24.8	49.6
30	174	57.4	65.0
36		47.9	65.0
42		41.0	65.0
48		35.9	65.0
54		31.9	63.8
60		28.7	57.4
66		26.1	52.2
72		23.9	47.9
30	180	55.5	65.0
36		46.3	65.0
42		39.7	65.0
48		34.7	65.0
54		30.8	61.7
60		27.8	55.5
66		25.2	50.5
72		23.1	46.3



I HEAD ANCHOR WITH "T" CLIP & "F" CLIP
DII (WL ANCHOR ONLY)



IA HEAD ANCHOR DETAIL AT JAMB
DII AT BOTTOM OF SLAB



IB HEAD ANCHOR DETAIL AT MULLION
DII AT BOTTOM OF SLAB

FLORIDA APPROVAL:
FL#23007.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISIONS	
NO	DATE DESCRIPTION

MCY
ENGINEERING, INC.
GLAZING CONSULTANTS

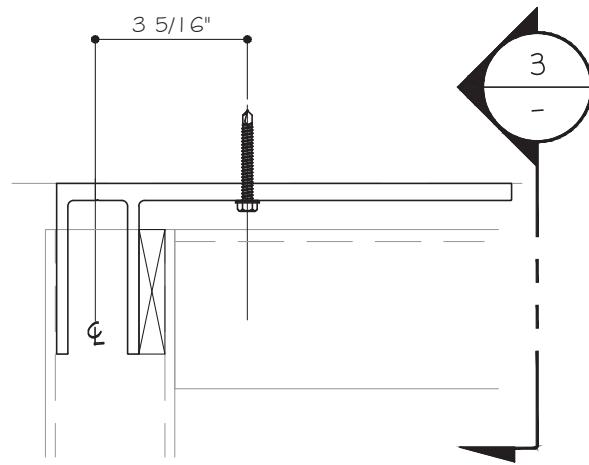
12781 MIRAMAR PKWY, STE. 301
MIRAMAR, FL 33027

P: 305.271.0117
P: 305.588.5224
www.MCYEngineering.com
mcy@mcycengineering.com

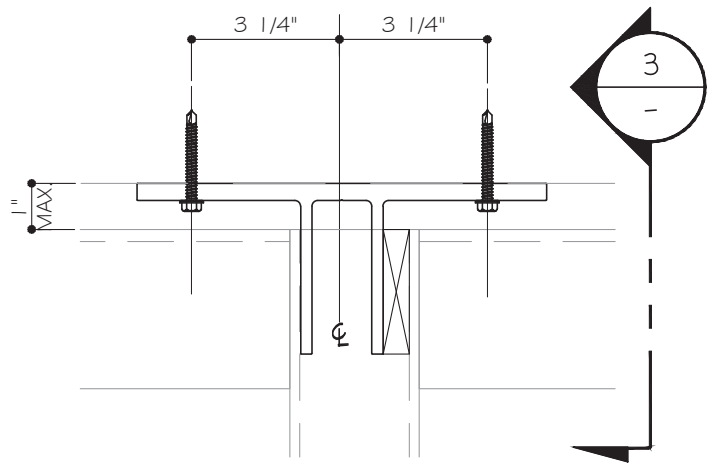
T850B WINDOW WALL (LMI & SMI)

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

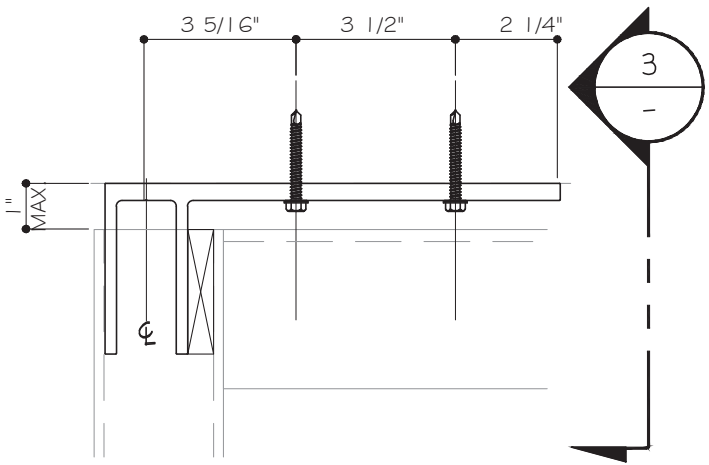
A2	
DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	A.D.
PROJECT	17-074
DRAWING NO. AD19-20	
9 OF 20	



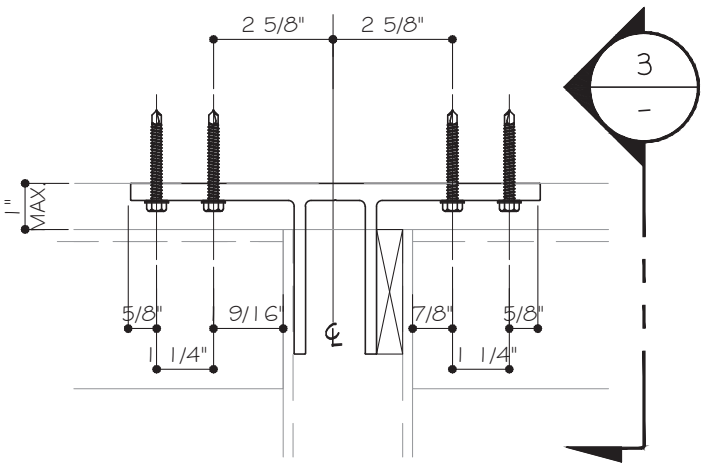
3A HEAD ANCHOR INTO METAL STUD
 (2) ANCHORS PER SIDE
 MAX. END REACTION AT JAMB
 $R_w = 315 \text{ LB}$



3B HEAD ANCHOR INTO METAL STUD
 (2) ANCHORS PER SIDE
 MAX. END REACTION AT MULLION
 $R_w = 630 \text{ LB}$

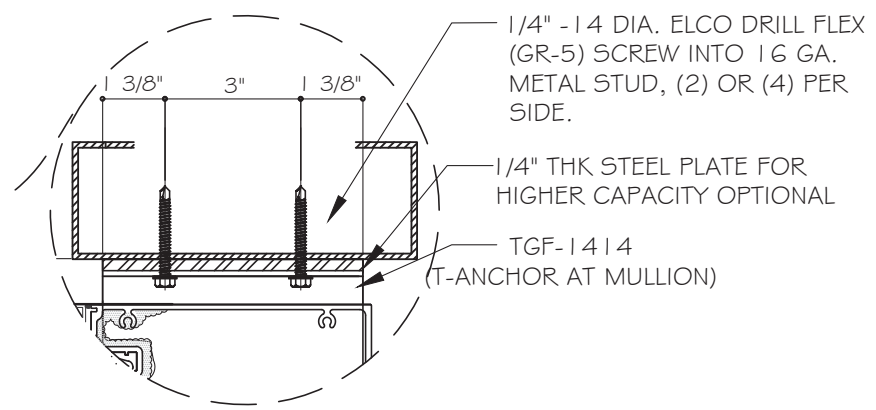
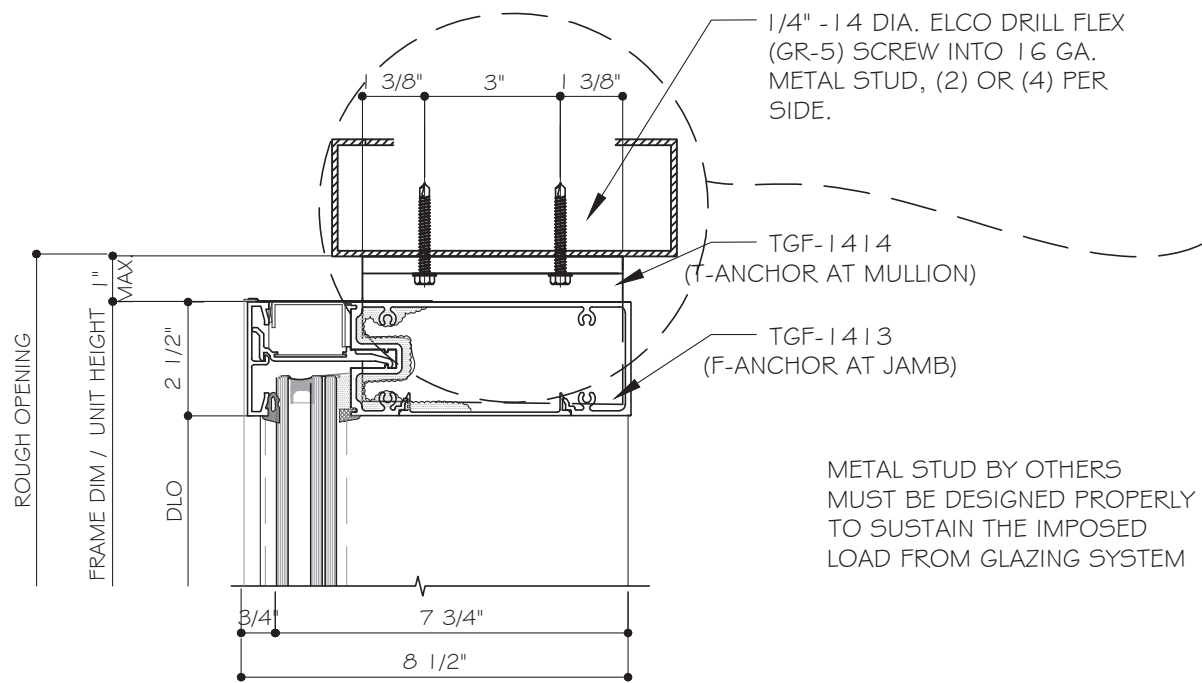


3C HEAD ANCHOR INTO METAL STUD
 (4) ANCHORS PER SIDE
 MAX. END REACTION AT JAMB
 $R_w = 630 \text{ LB}$



3D HEAD ANCHOR INTO METAL STUD
 (4) ANCHORS PER SIDE
 MAX. END REACTION AT MULLION
 $R_w = 1260 \text{ LB}$

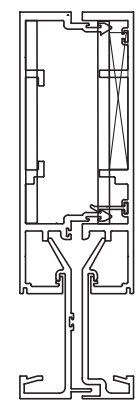
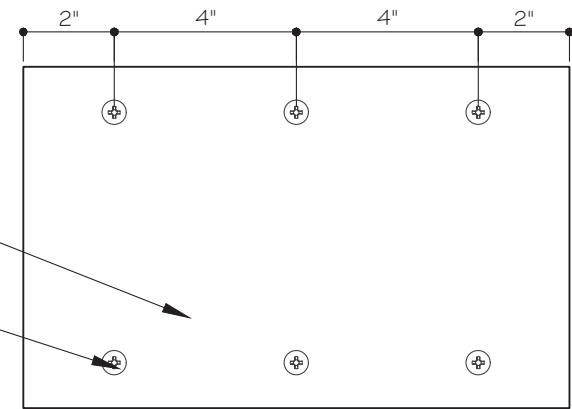
$$R_w > \frac{\text{FRAME HEIGHT}}{2} \times \text{MULLION SPACING} \times \text{DESIGN LOAD}$$



METAL STUD BY OTHERS
 MUST BE DESIGNED PROPERLY
 TO SUSTAIN THE IMPOSED
 LOAD FROM GLAZING SYSTEM

3 HEAD ANCHOR WITH "T" CLIP & "F" CLIP
 FOR WIND LOAD ONLY

12" LG, 1/4" THK. STEEL PLATE
 (6) 1/4"-14 ELCO DRILL FLEX
 THRU STEEL PLATE INTO 16 GA
 METAL STUD



NOTE: "CTW TO MACHINE THE
 LEGS OF EXTRUSIONS AREAS
 OF INTERFERENCE"

FLORIDA APPROVAL:
 FL#23007.2

YIPING WANG, P.E.
 FLORIDA REGISTRATION
 No. 55983
 C.A.N. 28677

STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

June 20th, 2023

REVISIONS	
NO	DATE DESCRIPTION

MCY ENGINEERING, INC.
 GLAZING CONSULTANTS

MCY

12781 MIRAMAR PKWY, STE. 301 P: 305.271.0117
 MIRAMAR, FL 33027 P: 305.588.5224
 www.MCYEngineering.com mcy@mcycengineering.com

T850B WINDOW WALL (LMI & SMI)

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

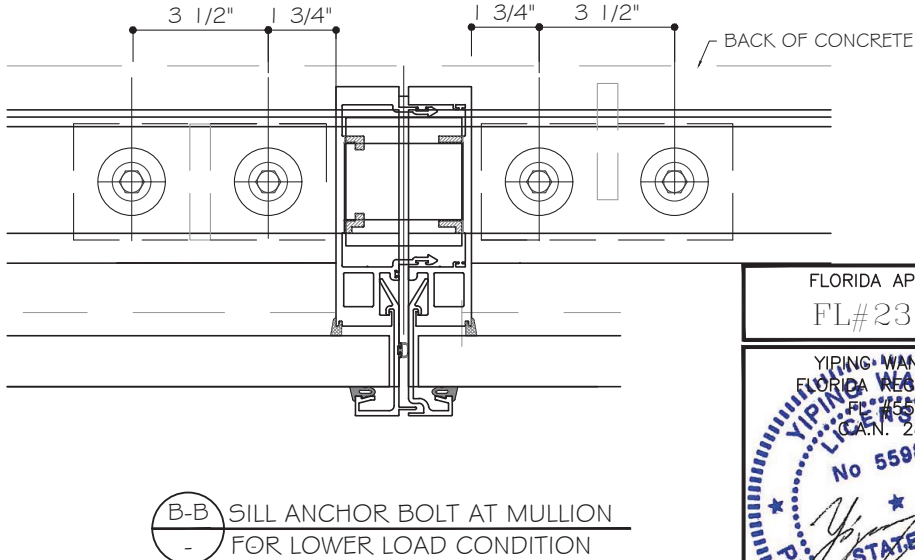
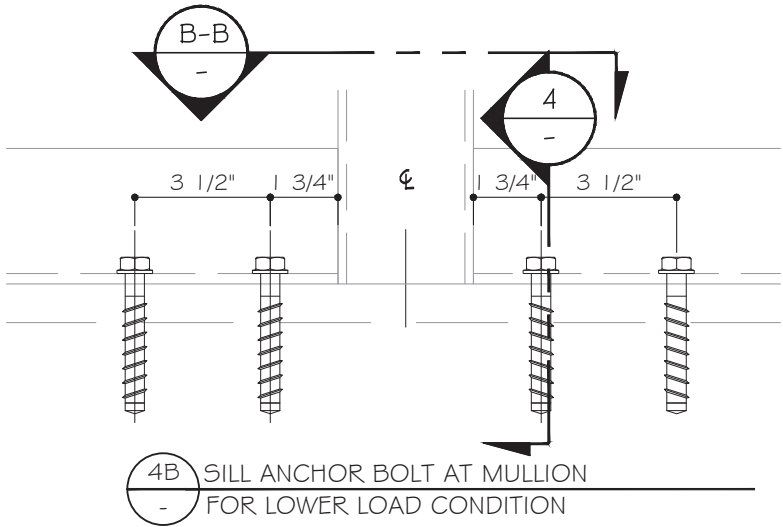
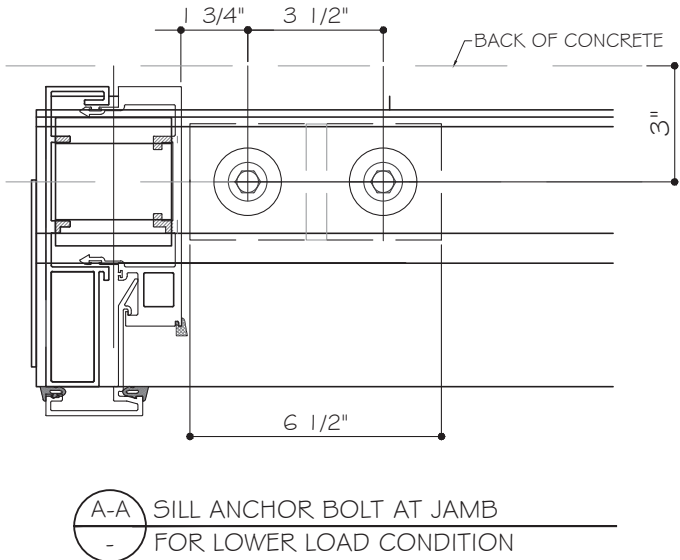
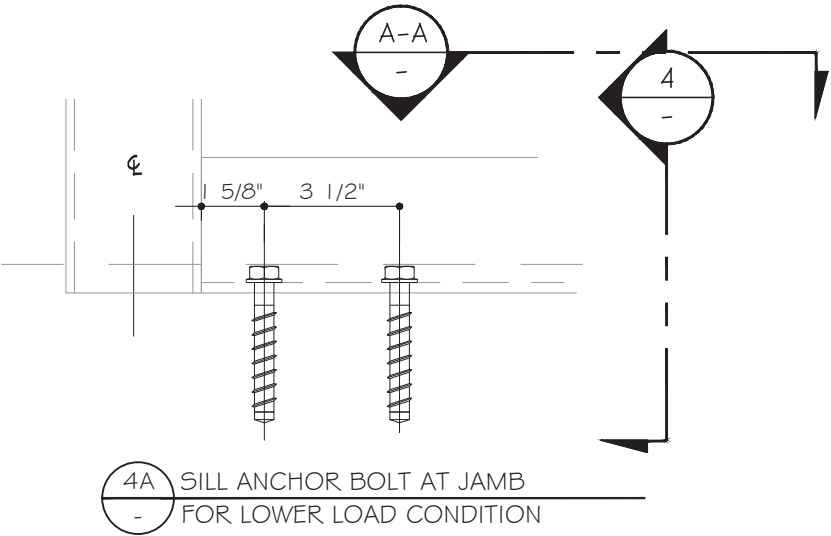
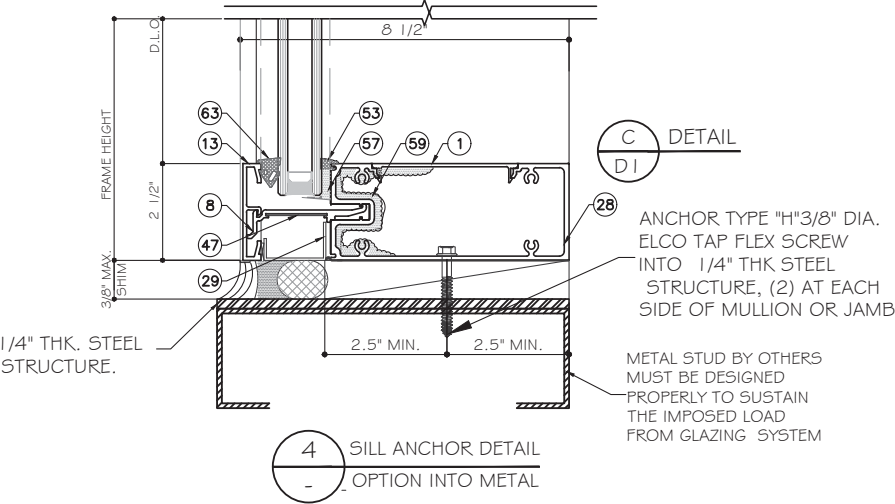
A3

DATE	06.20.2023
SCALE	AS SHOWN
DRAWN	A.O.
PROJECT	17-074

DRAWING NO.
 AD19-20

10 OF 20

SILL ANCHOR CAPACITY - PSF			SILL ANCHOR CAPACITY - PSF		
NOMINAL DIMENSION		ANCHOR TYPE	NOMINAL DIMENSION		ANCHOR TYPE
MULLION SPACING (IN.) (W)	FRAME HEIGHT (IN.) (L)	3/4" MAX. SHIM EXT. (+) INT. (-)	MULLION SPACING (IN.) (W)	FRAME HEIGHT (IN.) (L)	3/4" MAX. SHIM EXT. (+) INT. (-)
54	78	65.0	48	132	65.0
57		65.0	36		65.0
60		65.0	42		65.0
64		65.0	48		65.0
68		65.0	54		65.0
70	84	65.0	60	138	65.0
80		65.0	66		65.0
54		65.0	72		62.1
57		65.0	30		65.0
60		65.0	36		65.0
63	90	65.0	42	144	65.0
64		65.0	48		65.0
68		65.0	54		65.0
70		65.0	60		65.0
80		65.0	66		64.8
30	96	65.0	72	150	59.4
36		65.0	30		65.0
42		65.0	36		65.0
48		65.0	42		65.0
54		65.0	48		65.0
60	102	65.0	54	156	65.0
66		65.0	60		65.0
72		65.0	66		59.6
30		65.0	72		54.7
36	108	65.0	30	162	65.0
42		65.0	36		65.0
48		65.0	42		65.0
54		65.0	48		65.0
60		65.0	54		60.7
66	114	65.0	66	168	55.2
72		65.0	72		50.6
30		65.0	48		65.0
36	120	65.0	36	174	65.0
42		65.0	42		65.0
48		65.0	48		65.0
54		65.0	54		62.8
60	126	65.0	60	180	56.6
66		65.0	66		51.4
72		65.0	72		47.1
30		65.0	30		65.0
36		65.0	36		65.0
42		65.0	42		65.0
48		65.0	48		65.0
54		65.0	54		60.7
60		65.0	60		54.7
66		65.0	66		49.7
72		65.0	72		45.6



FLORIDA APPROVAL:
FL#23007.2

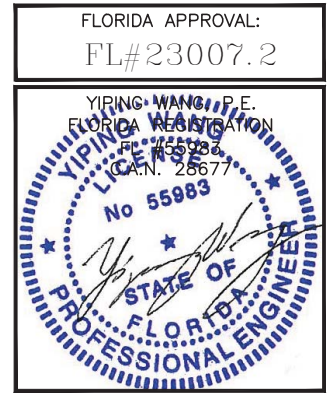
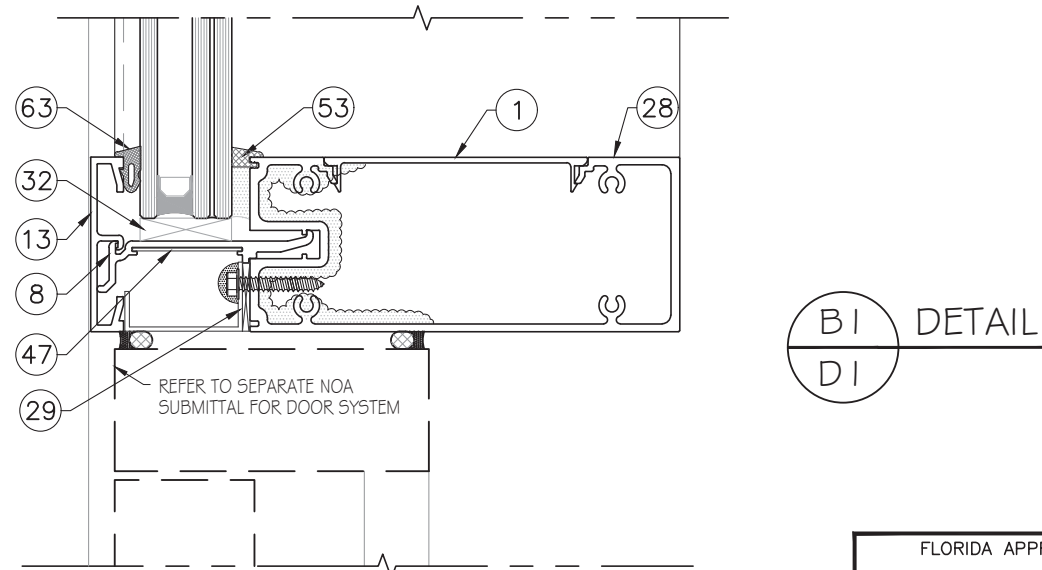
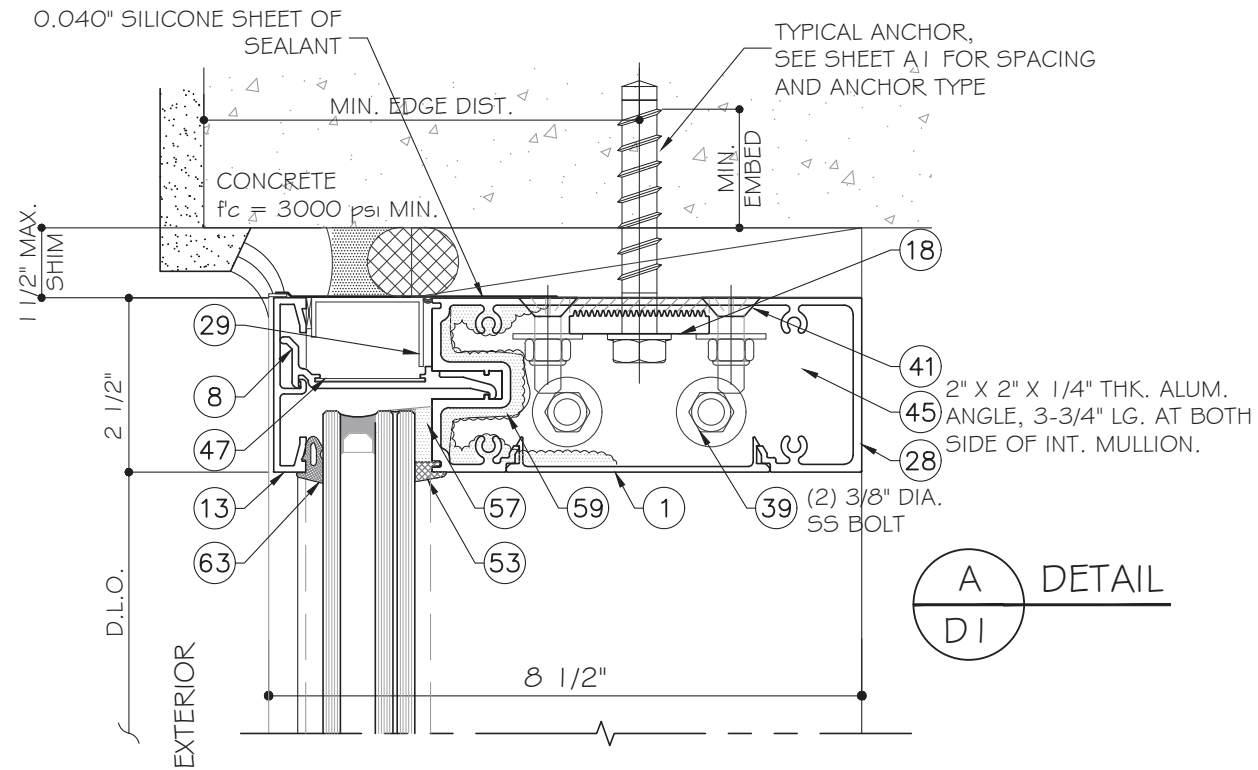
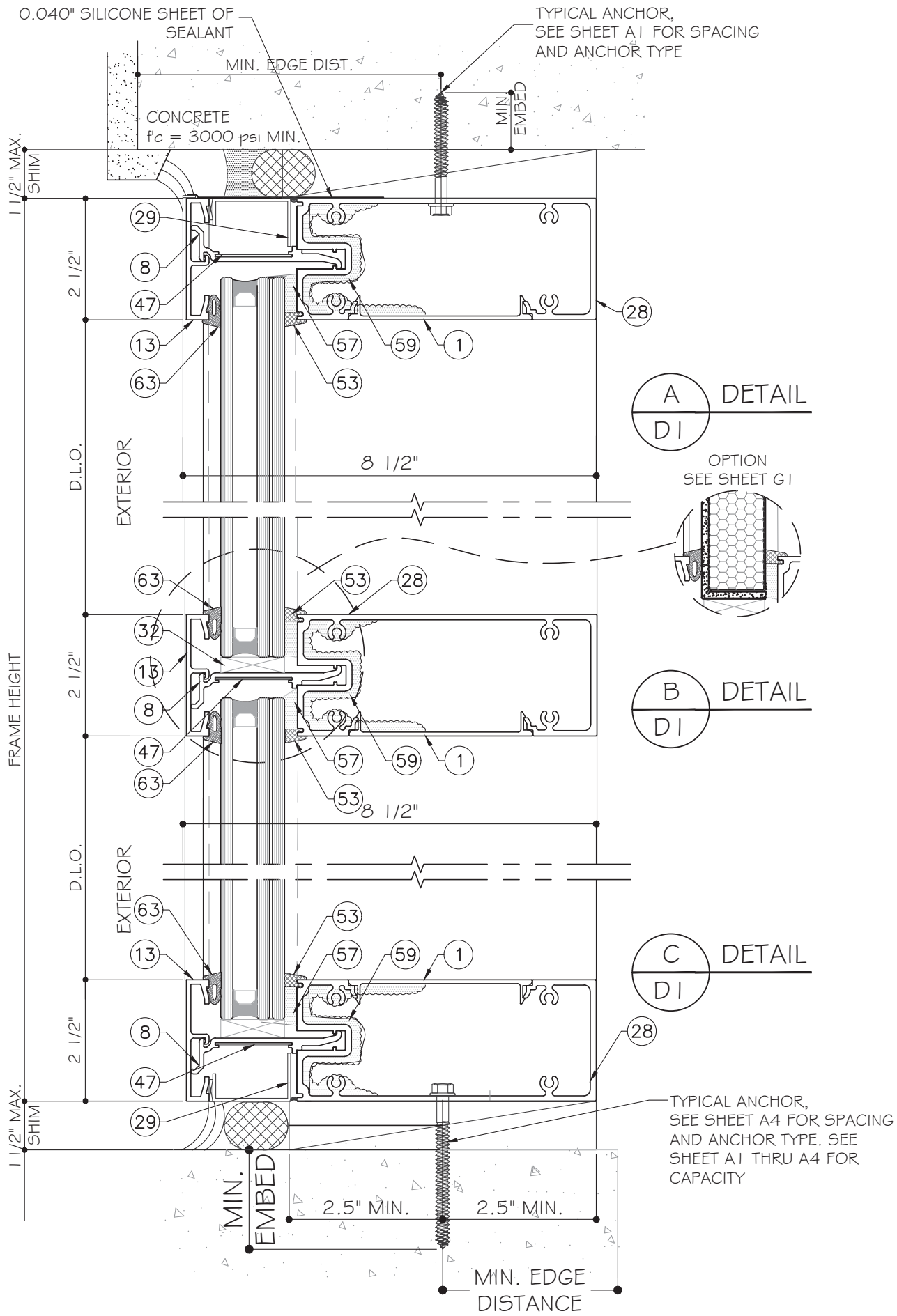
YIPING WANG, P.E.
FLORIDA REGISTRATION
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

REVISIONS
NO. DATE DESCRIPTION

MCY
MCY ENGINEERING, INC.
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PH: (407)-857-9237

A4
DATE 06.20.2023
SCALE AS SHOWN
DRAWN A.D.
PROJECT 17-074
DRAWING NO. AD19-20
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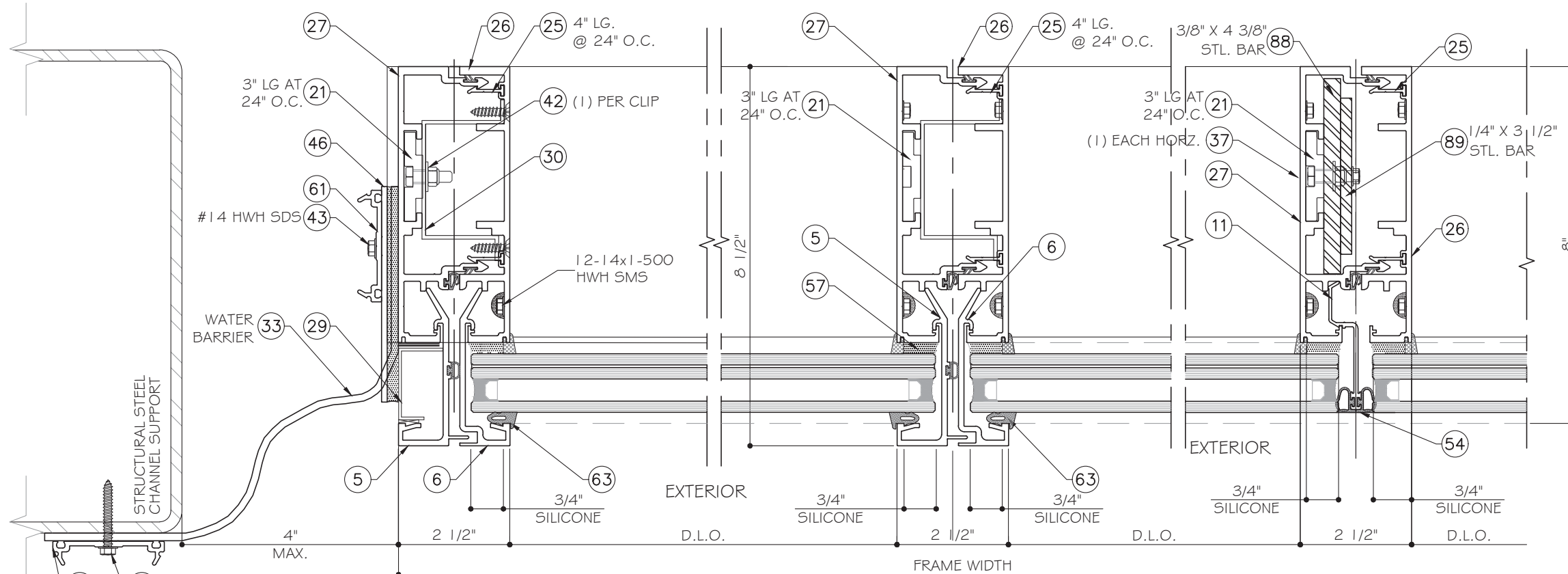
REVISIONS		NO DATE		DESCRIPTION	

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MCY ENGINEERING, INC.	
GLAZING CONSULTANTS	
12781 MIRAMAR PKWY. STE. 301	P: 305.271.0117
MIRAMAR, FL. 33027	P: 305.588.5224
www.MCYEngineering.com	mcy@mcyengineering.com

T850B WINDOW WALL (LMI & SMI)	
CT WINDOWS d.b.a. ARCHITECTURAL ALUMINUM TECHNIQUES	
9195 BOGGY CREEK RD. #1	
ORLANDO, FL 32824	
PH: (407)-857-9237	

D1	
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D
D2
DETAIL

E
D2
DETAIL

F
D2
DETAIL

MAX. JAMB HEIGHT	GAP MIN.
108"	1/2"
120"	9/16"
132"	5/8"
144"	11/16"
154"	3/4"
168"	13/16"
181"	7/8"

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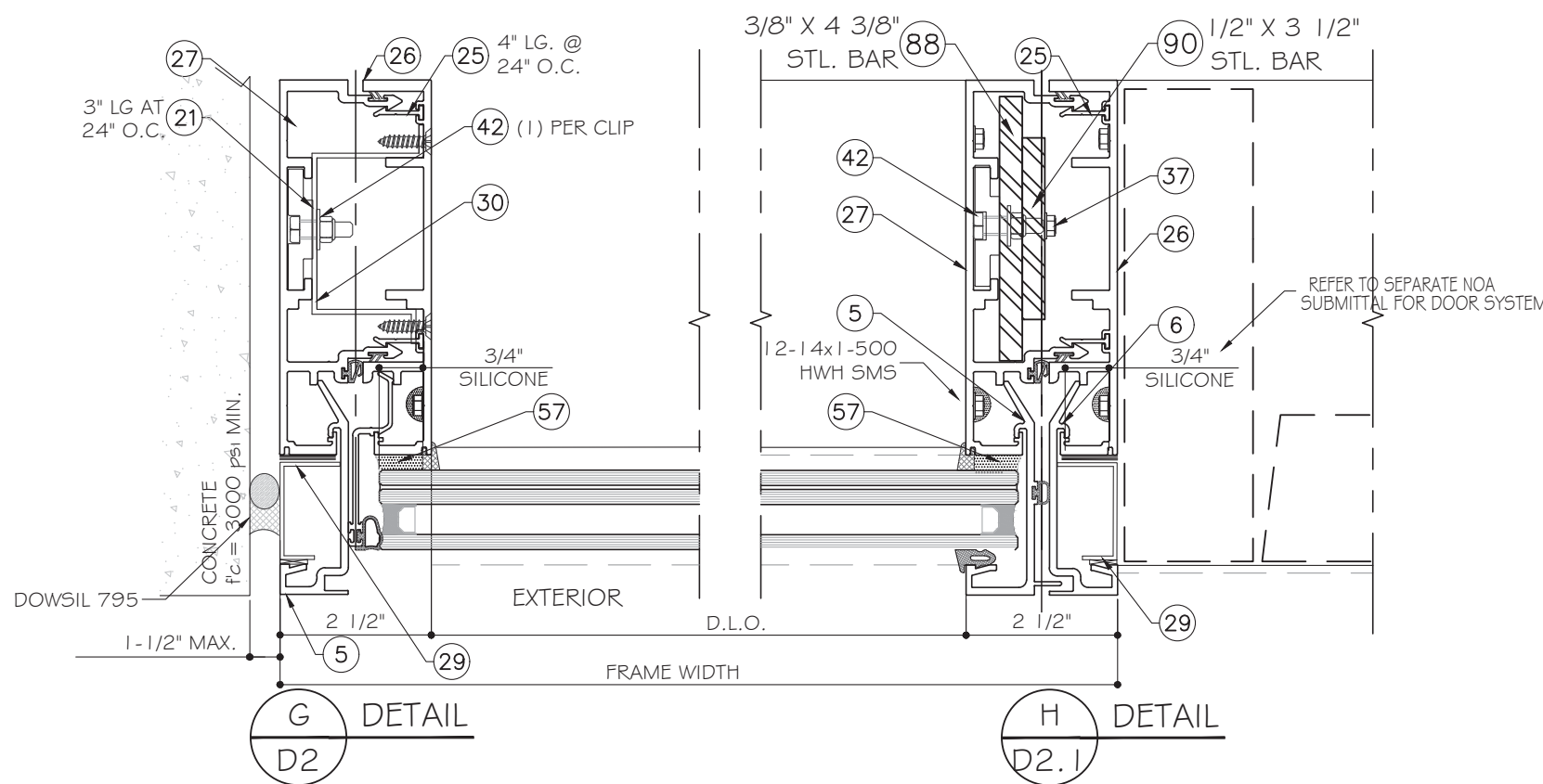
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DETAIL

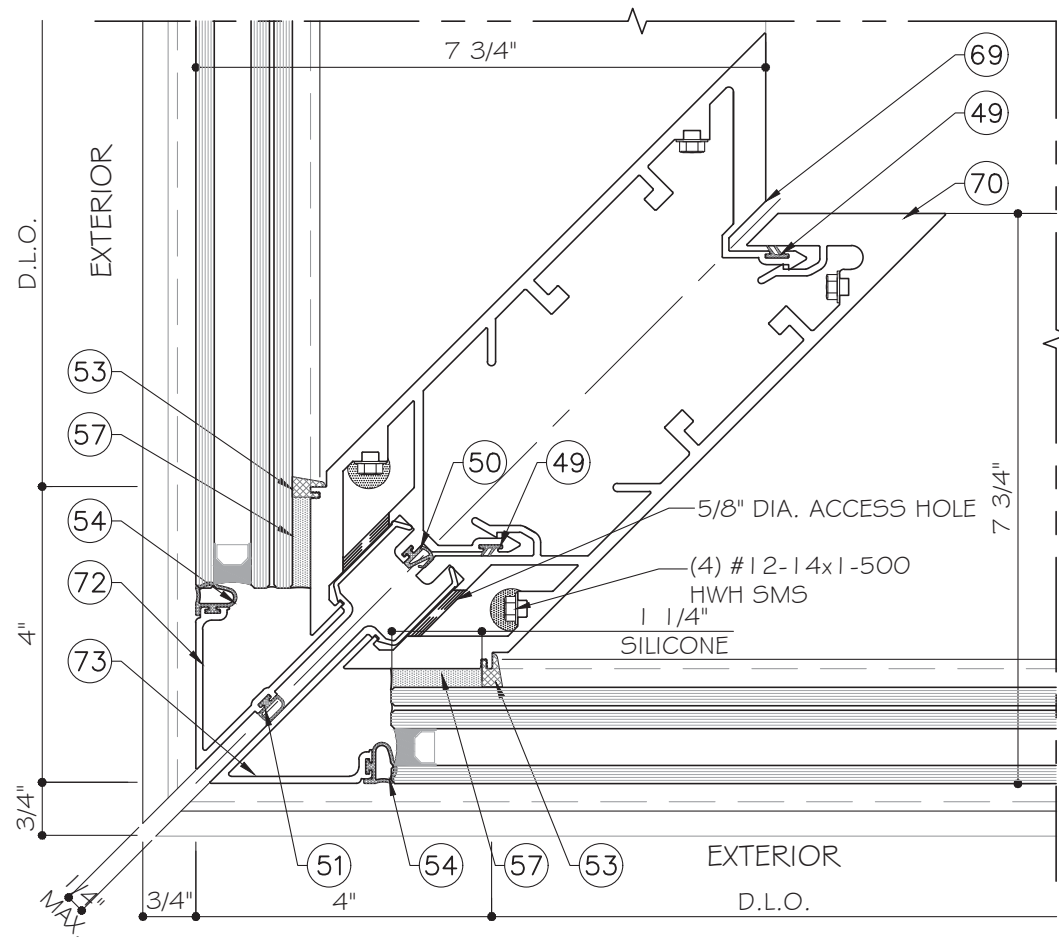
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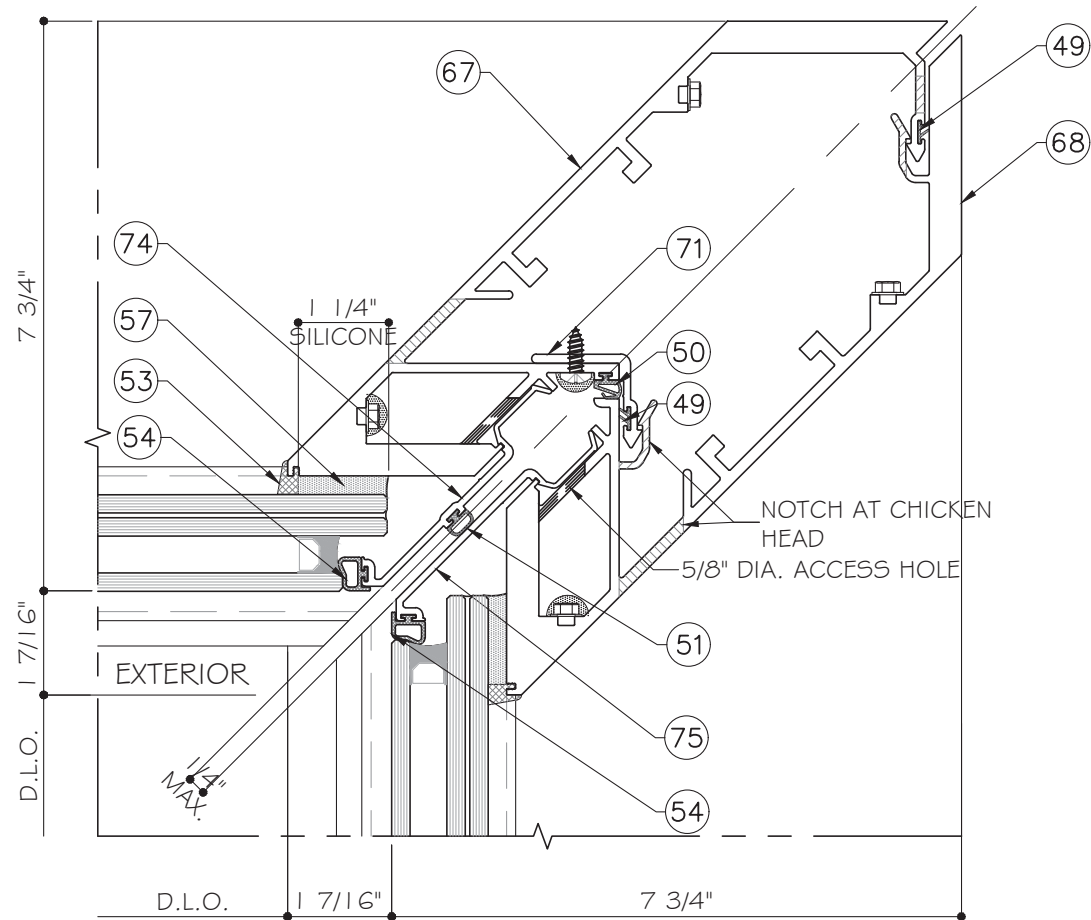
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FLORIDA REGISTRATION
No. 55983

STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 20th, 2023



I
D3
DETAIL



J
D3
DETAIL

FLORIDA APPROVAL:
FL#23007.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.N. 28677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

June 20th, 2023

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MCY ENGINEERING, INC.
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1

HORIZONTAL FILLER

TGF-1202 ALUM. 6063-T6

5

MALE CLOSURE

TGF-1311 ALUM. 6063-T6

6

FEMALE CLOSURE

TGF-1312 ALUM. 6063-T6

8

1-5/16" CAPTURED GLAZING ADAPTOR

TGF-1315 ALUM. 6063-T6

11

ALUMINUM WEATHER STRIP ADAPTER

TGF-1318 ALUM. 6063-T6

12

INTERMEDIATE HORIZONTAL SETTING CHAIR

TGF-1319 ALUM. 6063-T6

13

GLAZING COVER

TGF-1331 ALUM. 6063-T6

18

SERRATED WASHER

TGF-1402 ALUM. 6063-T6

21

JAMB SPACER

TGF-1406 ALUM. 6063-T6

25

MULLION CLIP

CTW-1117 ALUM. 6063-T6

26

FRAME JAMB / MALE VERTICAL MULLION

CTW-1123 ALUM. 6063-T6

27

FRAME JAMB / FEMALE VERTICAL MULLION

CTW-1124 ALUM. 6063-T6

28

FRAME HEAD / HORIZONTAL MULLION

CTW-1221 ALUM. 6063-T6

30

ALUMINUM FRAME FILLER

CTW-1350 ALUM. 6063-T6

31

VERTICAL DRY GASKET ADAPTER

CTW-1360 ALUM. 6063-T6

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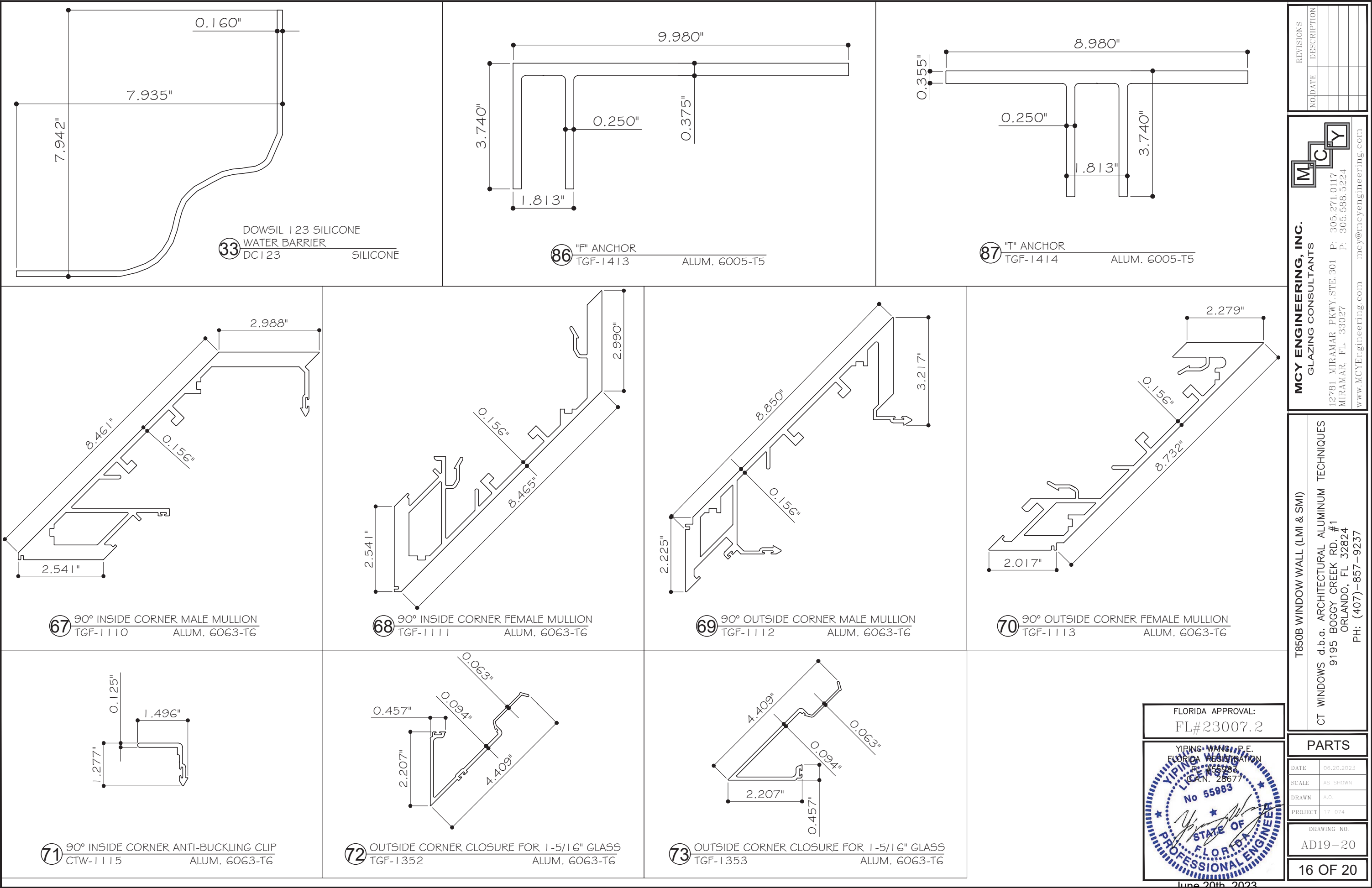
PARTS

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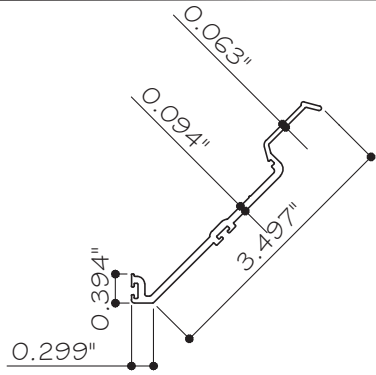
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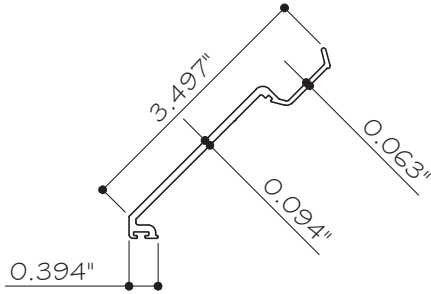
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PROJECT	17-074
DRAWING NO. AD19-20	
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74 INSIDE CORNER CLOSURE FOR 1-5/16" GLASS
TGF-I 356 ALUM. 6063-T6



75 INSIDE CORNER CLOSURE FOR 1-5/16" GLASS
TGF-I 357 ALUM. 6063-T6

FLORIDA APPROVAL:
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PARTS	
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17 OF 20	

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	TGF-1202	HORIZONTAL FILLER AT HEAD AND INTERMEDIATE	ALUM. 6063-T6	BONNELL
5	TGF-1311	MALE CLOSURE	ALUM. 6063-T6	BONNELL
6	TGF-1312	FEMALE CLOSURE	ALUM. 6063-T6	BONNELL
8	TGF-1315	1-5/16" CAPTURED GLAZING ADAPTOR	ALUM. 6063-T6	BONNELL
11	TGF-1318	ALUMINUM WEATHER STRIP ADAPTOR	ALUM. 6063-T6	BONNELL
12	TGF-1319	INTERMEDIATE HORIZONTAL SETTING CHAIR	ALUM. 6063-T6	BONNELL
13	TGF-1331	GLAZING COVER	ALUM. 6063-T6	BONNELL
18	TGF-1402	SERRATED WASHER, 2" LG.	ALUM. 6005-T5	BONNELL
21	TGF-1406	JAMB SPACER	ALUM. 6005-T5	BONNELL
25	CTW-1117	MULLION CLIP	ALUM. 6063-T5	BONNELL
26	CTW-1123	FRAME JAMB / MALE VERTICAL MULLION	ALUM. 6063-T6	MI METALS, INC.
27	CTW-1124	FRAME JAMB / FEMALE VERTICAL MULLION	ALUM. 6063-T6	MI METALS, INC.
28	CTW-1221	FRAME HEAD / HORIZONTAL MULLION	ALUM. 6063-T6	MI METALS, INC.
29	CTW-1350	ALUMINUM FRAME FILLER	ALUM. 6063-T6	BONNELL
30	CTW-1352	MULLION FILLER REINFORCEMENT	ALUM. 6063-T6	BONNELL
32	SB-1	SETTING BLOCK. 6" LG. (2) PER D.L.O. AT 1/8 POINTS	EPDM 70 DURO	TREMCO
33	123	WATER BARRIER	-	DOWSIL
34	FS-1	#12-14 X 1-1/2" HWH SMS	ZINC PLATED STEEL	-
37	F1	#12-14x1-500 HWH SMS	ZINC PLATED STEEL	VARIES
39	F10	3/8" DIA. SS BOLT, W/ (3) BOLTS FOR CORNER MULLION, W/ (2) BOLTS FOR TYPICAL MULLION (1/2" DIA.)	STAINLESS STEEL	VARIES
41	F14	3/8" X 1-3/4" FH BOLT W/ FLAT WASHER AND LOCK NUT	ZINC PLATED STEEL	VARIES
42	F25	1/4" X 1" HEX HEAD THRU BOLT W/ WASHER AND LOCK NUT	ZINC PLATED STEEL	VARIES
43	F27	#14 x 2" LG. HWH SDS	ZINC PLATED STEEL	VARIES
44	-	SPACER	ALUMINUM	ALL METAL, INC.
45	-	2" X 2" X $\frac{1}{4}$ " THK. ALUM. ANGLE. (3-3/4" LG. AT BOTH SIDES OF MULLION)	ALUMINUM	HALL METALS
46	AP1	END DAM	METAL	C.T. WINDOWS
47	AP2	END DAM AT DOOR JAMB	METAL	C.T. WINDOWS
49	G1	PRESET WIPER GASKET	EPDM 70 DURO	TREMCO
50	G2	PRESET AIR SEAL BULB GASKET	EPDM 70 DURO	TREMCO
51	G3	PRESET RUN SCREEN GASKET	EPDM 70 DURO	TREMCO
52	G4	GASKET	EPDM 70 DURO	TREMCO
53	TR-5796	GASKET	EPDM 70 DURO	TREMCO
54	G6	PRESET GLASS EDGE BULB GASKET	EPDM 70 DURO	TREMCO
57	S1	DOWSIL 983 OR PROGLAZE II + BASE	SILICONE	DOWSIL/TREMCO
58	S2	DOWSIL 795 OR SPECTRUM 2	SILICONE	DOWSIL/TREMCO
59	S3	DOWSIL 791 OR SPECTRUM 1	SILICONE	DOWSIL/TREMCO
61	162335	PRESSURE PLATE	ALUM. 6063-T6	KAWNEER
63	TR-893E	GASKET	60 DUROMETER	TREMCO
67	TGF-1110	90° INSIDE CORNER MALE MULLION	ALUM. 6063-T6	CT WINDOW
68	TGF-1111	90° INSIDE CORNER FEMALE MULLION	ALUM. 6063-T6	CT WINDOW

REVISIONS	
NO	DESCRIPTION

MCY

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GLAZING CONSULTANTS

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PH: (407)-857-9237

BOM	
DATE	06.20.2023
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PROJECT	17-074

DRAWING NO.
AD19-20
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FLORIDA APPROVAL:
FL#23007.2

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

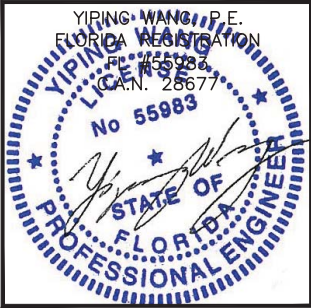
YIPING WANG
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
69	TGF-1112	90° OUTSIDE CORNER MALE MULLION	ALUM. 6063-T6	CT WINDOW
70	TGF-1113	90° OUTSIDE CORNER FEMALE MULLION	ALUM. 6063-T6	CT WINDOW
71	TGF-1115	90° INSIDE CORNER ANTI-BUCKLING CLIP	ALUM. 6063-T6	CT WINDOW
72	TGF-1352	OUTSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM. 6063-T6	CT WINDOW
73	TGF-1353	OUTSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM. 6063-T6	CT WINDOW
74	TGF-1356	INSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM. 6063-T6	CT WINDOW
75	TGF-1357	INSIDE CORNER CLOSURE FOR 1-5/16" GLASS	ALUM. 6063-T6	CT WINDOW
86	TGF-1413	"F" ANCHOR	ALUM. 6005-T5	CT WINDOW
87	TGF-1414	"T" ANCHOR	ALUM. 6005-T5	CT WINDOW
88	R3	3/8" X 120" X 4 3/8" THICK STEEL FLAT BAR	STEEL	VARIES
89	R4	1/4" X 120" X 3 1/2" THICK STEEL FLAT BAR	STEEL	VARIES
90	R5	3/8" X 120" X 3 1/2" THICK STEEL FLAT BAR	STEEL	VARIES

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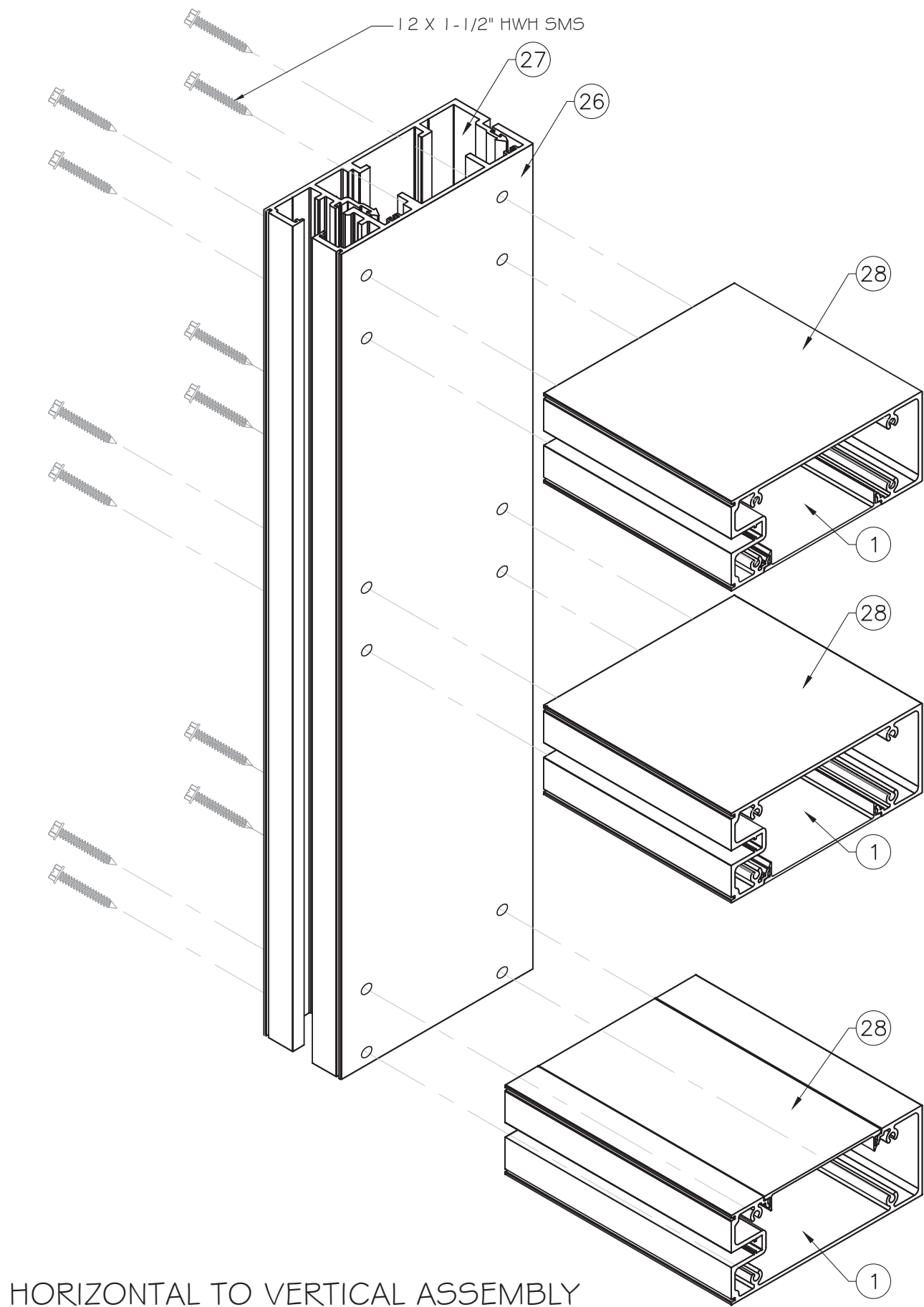
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HORIZONTAL TO VERTICAL ASSEMBLY

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No 55983

YIPING WANG
LICENSED PROFESSIONAL ENGINEER
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June 20th, 2023

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