

CURTAIN WALL SYSTEM RATED FOR LARGE MISSILE IMPACT.

SERIES 7000 CURTAIN WALL

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020)/ 8TH EDITION FLORIDA BUILDING CODE (2023) INSIDE OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH FBC APPROVED LARGE MISSILE IMPACT DOORS. LOWER DESIGN PRESSURE FROM CURTAIN WALL OR DOOR APPROVAL WILL APPLY TO ENTIRE SYSTEM.

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)/8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.

METAL STRUCTURES BY OTHERS 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/ ASCE 7-22, 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.

MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

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

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/ ASCE 7-22 STANDARD.

STEP 2: SEE SHEET 03 FOR APPROVED GLASS TYPES AND DESIGN LOAD CAPACITIES BASED ON APPLICABLE WIND DURATION AND SSG OPTION DESIGN LOAD CAPACITY DUE TO STRUCTURAL SILICONE.

STEP 3: SEE SHEET 03A & 03B FOR SINGLE SPAN ELEVATION AND CAPACITY

STEP 4: SEE TYPICAL ELEVATION OF CURTAIN WALL ON SHEET 04 & 05.

STEP 5: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT ON SHEET 06 - 08C. THE CAPACITY SHOULD EXCEED THE JOB REQUIRED DESIGN LOAD. MULLION TYPE REFER TO SHEET 08 TO 08C.

STEP 6: ANCHOR OPTION FOR TYPICAL HEAD & SILL SEE SHEET 15-17A, TO COVER AL CONDITIONS. FOR INTERMEDIATE ANCHORS SEE DETAIL ON SHEET 27 TO 37.

STEP 7: THE LOWEST VALUE RESULTING FROM STEPS 2, 3, 4, 5 AND 6 SHALL APPLY TO ENTIRE SYSTEM.

STEP 8: FOR ANCHOR CONDITION IN JOB EXCEEDS THE APPROVED LOAD, TO BE ENGINEERED SEPARATELY

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLIGHT 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

S.S. - STAINLESS STEEL

M.S. - MULLION SPACING

S.W. -SILOCONE WIDTH

G.B. - GLASS BITE

- CENTER LINE

H.S. - HEAT STRENGTHENED

SSG - STRUCTURAL SILICONE GLAZED

TEMP. - TEMPERED

O.C. - ON CENTER

▲ - DEADLOAD+WINDLOAD ANCHOR

△ - WINDLOAD ANCHOR

I.S. - INSIDE

WL - WIND LOAD

DL - DEAD LOAD

Pd - DESIGN LOAD (PSF)

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#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
#95989
C.A.N. 28677

September 28th, 2023

REVISIONS	
NO	DATE
R2	09.19.2023
	FBC 2023

MCY

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MIAMI, FL 33142

PH: (305)-342-0890

FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.

AD19-07A

01 OF 38

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38	BILL OF MATERIALS

MATERIALS	
A. ALUMINUM:	
1- ALL ALUMINUM EXTRUSION SHALL BE 6063-T5, 6063-T6 AND 6061-T6 (OR EQUIVALENT) AS SHOWN IN BILL OF MATERIAL	
B. STEEL:	
1- ALL STEEL FOR CURTAIN WALL SHALL BE ASTM A36 OR A50 AS PER BILL OF MATERIALS. Fy=36ksi OR Fy=50ksi	
2- ALL STEEL WELDS TO BE ELECTRODE E70	
C. SEALANT:	
1- APPLY GE SSG 4600 ULTRAGLAZE OR DOW 983 TO SHOP APPLIED METAL TO METAL JOINERY (FRAME ASSEMBLY).	
2- APPLY DOW CORNING 90 OR GE ULTRA 2700 TO EXTERIOR PERIMETER SEALANT AND FASTENER SEALANT.	
3- THE GLAZING SEALANT SHALL BE GE SSG 4600 ULTRAGLAZE OR DOW 983.	
4-ALL FRAME AND PANEL JOINT, INSTALLATION SCREWS AND HEADS OF ANCHOR SCREWS AT SILL TO BE SEALED WITH WHITE/ALUM COLORED SEALANT.	
D. GLASS:	
GL-1:9/16” LAMINATED GLASS	
1/4” H.S. GLASS	
0.090” SENTRYGLAS INTERLAYER	
BY KURARAY AMERICA, INC	
1/4” H.S. GLASS	
4- GLASS CAPACITY FOR A GIVEN AREA USE CHART ON SHEET 03	
5- SETTING BLOCK AT 1/4” POINT	
E. FASTENERS:	
1-ALL FRAME ASSEMBLY SCREWS SHALL BE:	
A. 300 SERIES COLD-ROLLED STAINLESS STEEL	
Fu= 100ksi, Fy= 65ksi	
B. HALFEN T-BOLT M20X80mm GV-S GRADE 8.8	
(ASTM F 568 CLASS 8.8 3/4” X 3-1/4”; Fy=96.7 KSI, Fu=120.35 KSI)	
F. SHIM AT SILL TO BE LOAD BEARING SHIM.	

GENERAL NOTES	
CURTAIN WALL SYSTEM IS RATED FOR SMALL MISSILE IMPACT, THAT CAN BE USED AT ELEVATIONS ABOVE 30'-0" OF GRADE LEVEL WITHOUT HURRICANE PROTECTIVE SHUTTERS. SHUTTERS ARE REQUIRED WHEN PRODUCT USED FOR ELEVATIONS BELOW 30'-0" ABOVE GRADE LEVEL	
CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED	
THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE 2020)/ 8TH EDITION FLORIDA BUILDING CODE 2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ)	
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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 CURRENT FLORIDA BUILDING CODE INCLUDING ADAPTED STANDARDS AS APPLICABLE.	
EACH MEMBER SHALL BE CONTINUOUS UNLESS OTHERWISE SPECIFIED.	

FLORIDA APPROVAL:
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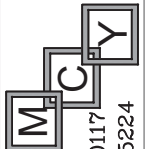
YIPING WANG, P.E.
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C.A.N. 28677



September 28th, 2023

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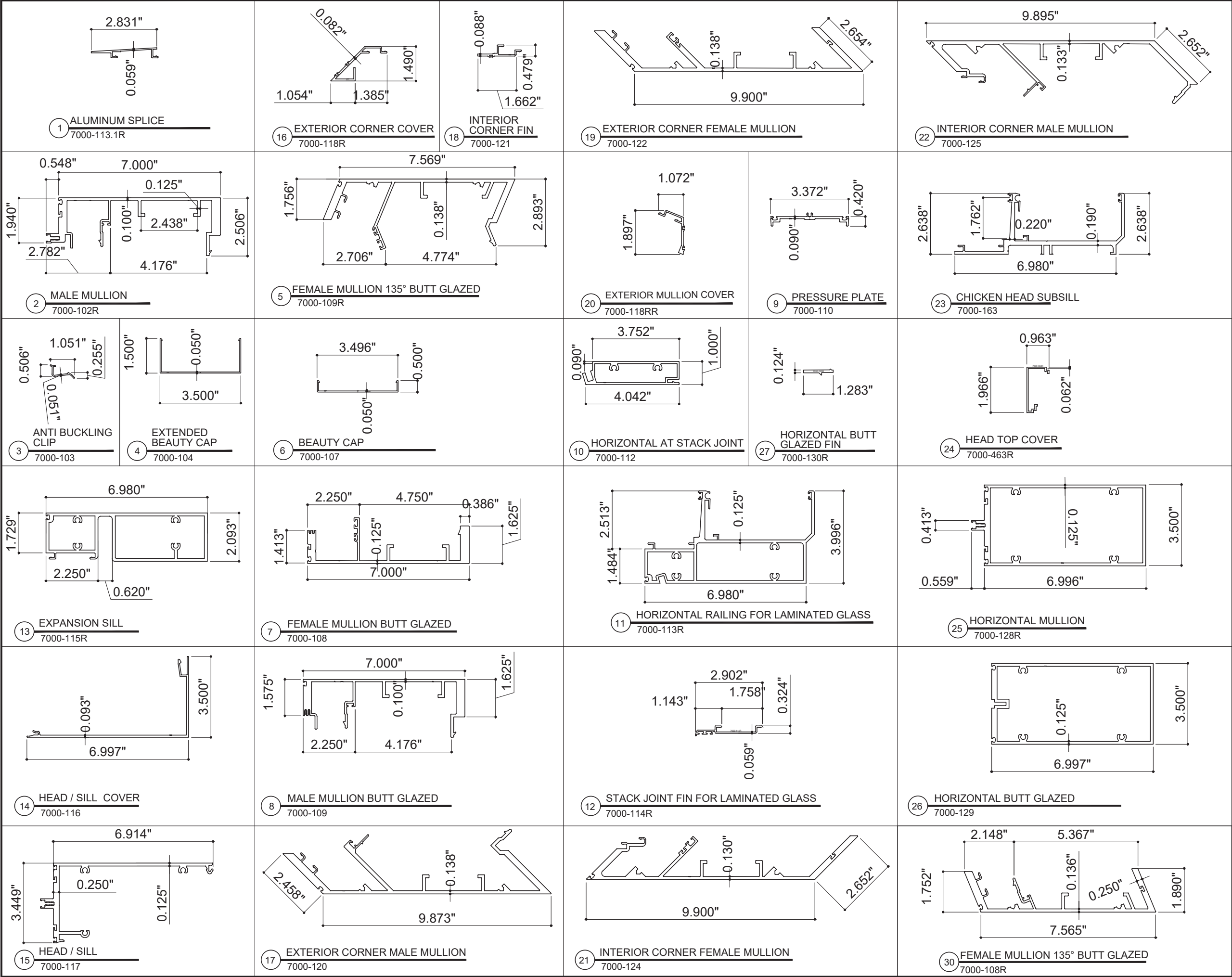
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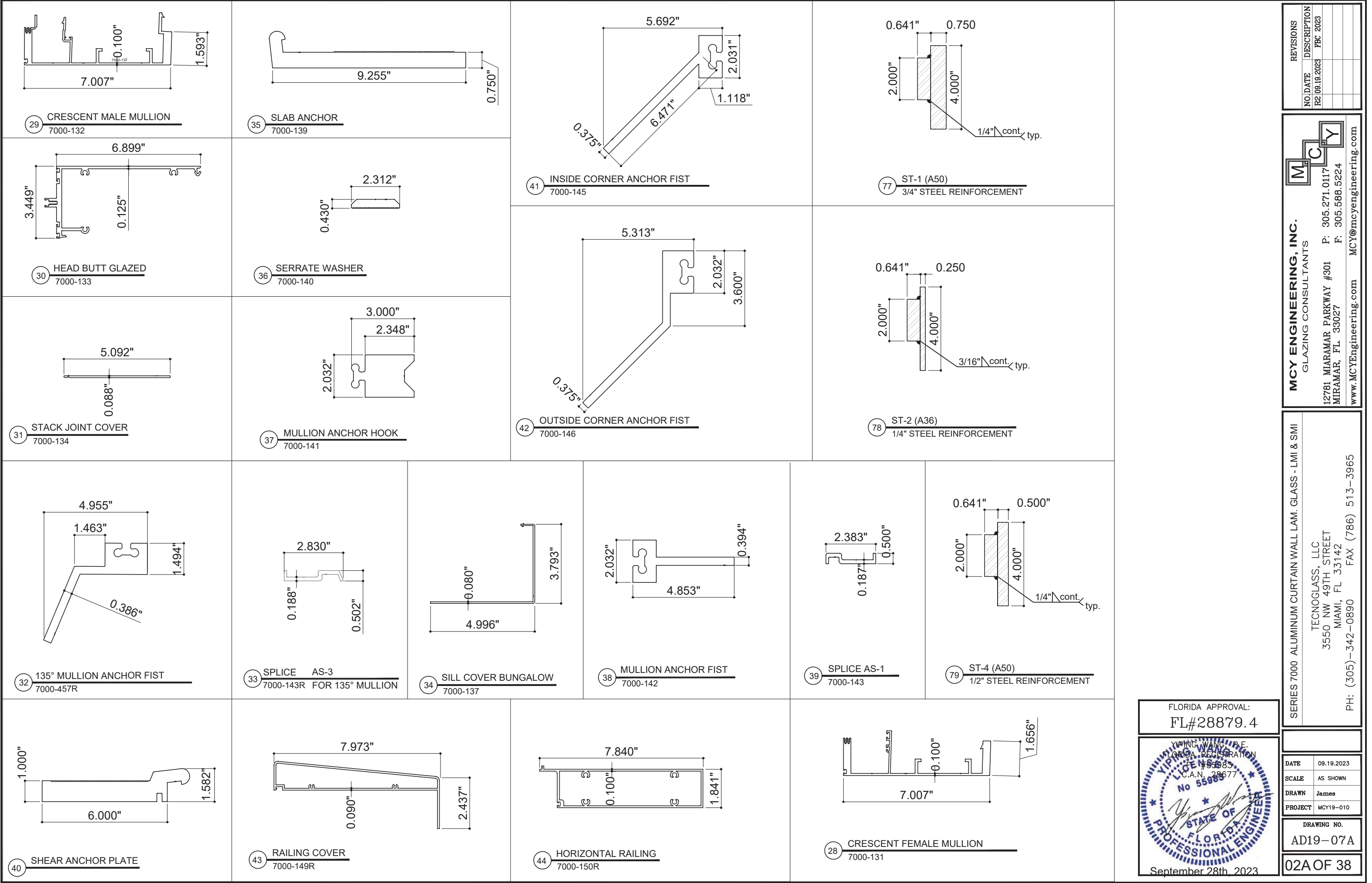
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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86

CRESCENT FEMALE MULLION

7000-464

87

CRESCENT MALE MULLION

7000-465

96

OUTSIDE CORNER ANCHOR FIST

7000-451

86.90°

88

BACK CORNER MALE 86.9°

7000-452

92

BACK CORNER MALE 94.4°

7000-458

97

OUTSIDE CORNER ANCHOR FIST

7000-457

94.40°

89

FRONT CORNER MALE 86.9°

7000-453

93

FRONT CORNER MALE 94.4°

7000-459

100

ALUMINUM SPLICE AS-2

7000-143 FOR 86.9° & 94.40° MULLION

90

BACK CORNER FEMALE 86.9°

7000-454

94

BACK CORNER FEMALE 94.4°

7000-460

91

FRONT CORNER FEMALE 86.9°

7000-455

95

FRONT CORNER FEMALE 94.4°

7000-461

98

EXTERIOR CORNER COVER

7000-456R

86.90°

99

EXTERIOR CORNER COVER

7000-462R

94.40°

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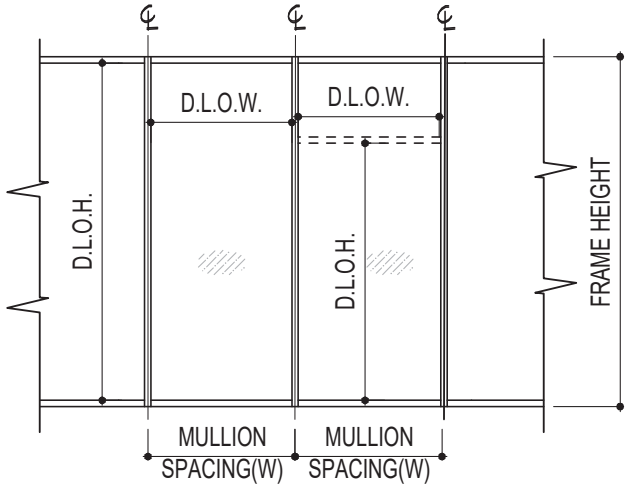
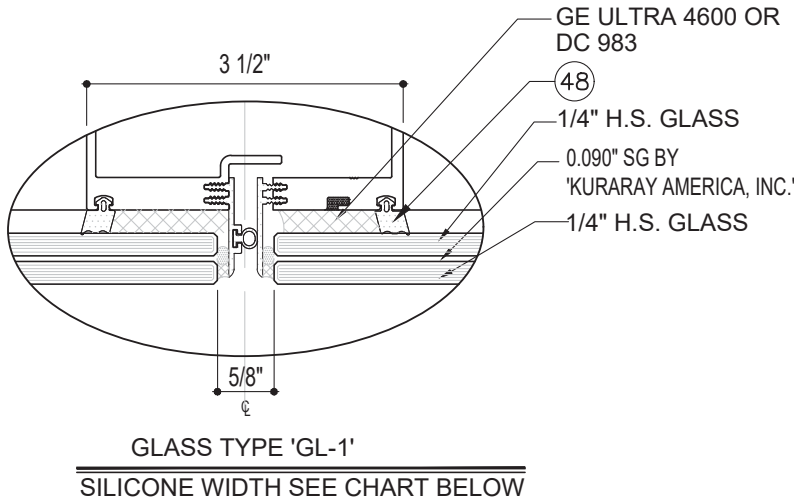
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DLO WIDHT	DLO HEIGHT	DESIGN LOAD (PSF)
(in)	(in)	GL- I
44.5	96	140.0
50.5		140.0
56.5		140.0
44.5	102	140.0
50.5		140.0
56.5		140.0
44.5	108	140.0
50.5		140.0
56.5		140.0
44.5	114	140.0
50.5		140.0
56.5		135.0
44.5	120	140.0
50.5		140.0
56.5		130.0
38.5	126	140.0
41.5		140.0
44.5		140.0
47.5	132	140.0
50.5		140.0
53.5		133.0
38.5	138	140.0
41.5		140.0
44.5		140.0
47.5	144	140.0
50.5		140.0
53.5		129.0
32.5	144	140.0
35.5		140.0
38.5		140.0
41.5	144	140.0
44.5		140.0
49		140.0

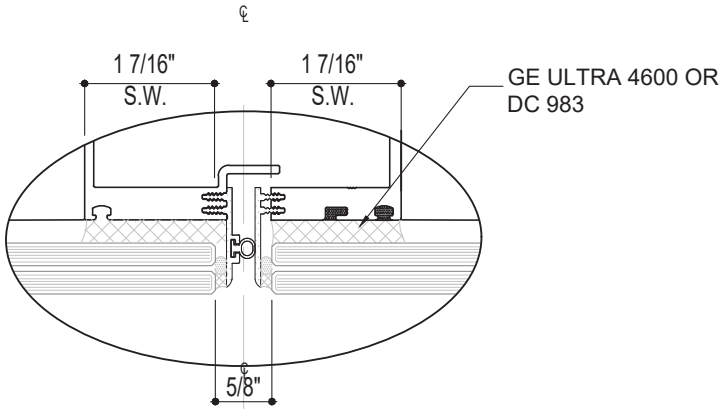
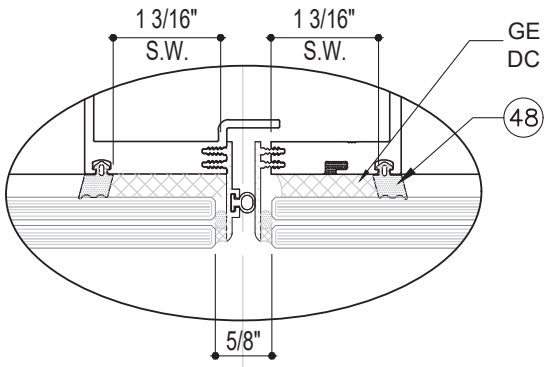
1. GLASS OPTIONS, SEE CHART ON LEFT FOR CAPACITIES.



**GLASS AREA = D.L.O. WIDTH X D.L.O. HEIGHT
D.L.O.W. = W - 3 1/2"

GLASS CAPACITY BASED ON ASTM E 1300-09

2. SILICONE WIDTH OPTIONS



SILICONE WIDTH CAPACITY CHART

DESIGN LOAD Pd (PSF) DUE TO SILICONE		
C-C SPACING	SILICONE WIDTH (S.W.)	
	1 3/16 "	1 7/16"
5'-0"	114 PSF	138 PSF
4'-6"	126.7 PSF	140 PSF
4'-0"	140 PSF	140 PSF

3. LOWEST VALUE RESULTING FROM ABOVE GOVERNS GLASS CAPACITIES.

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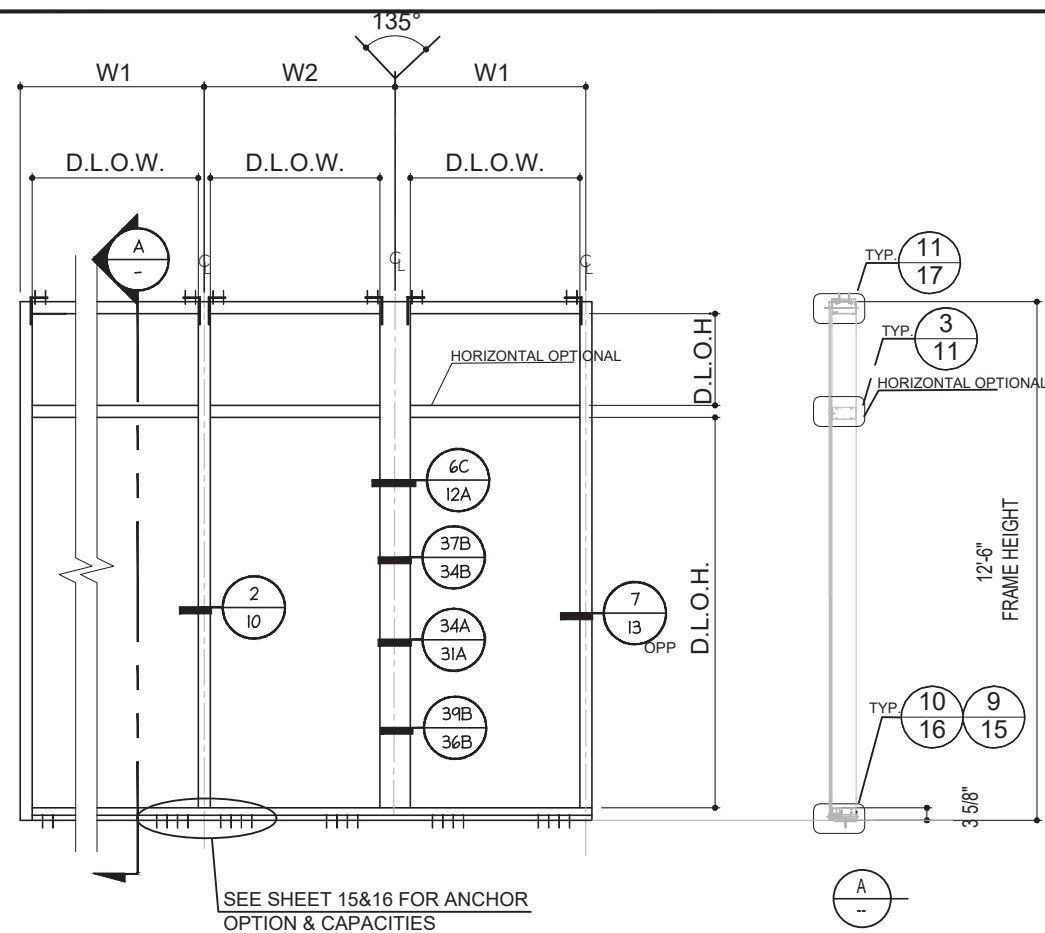
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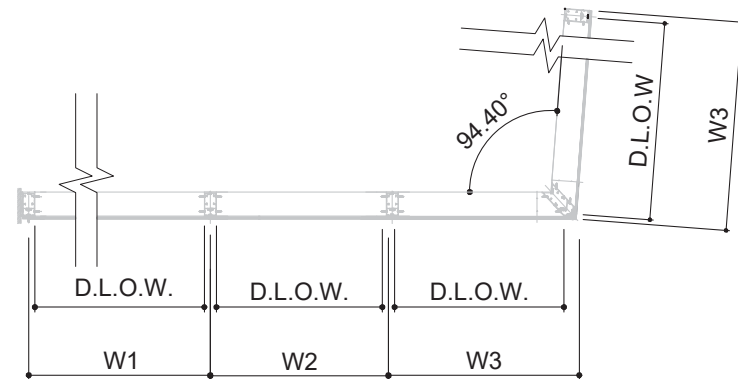
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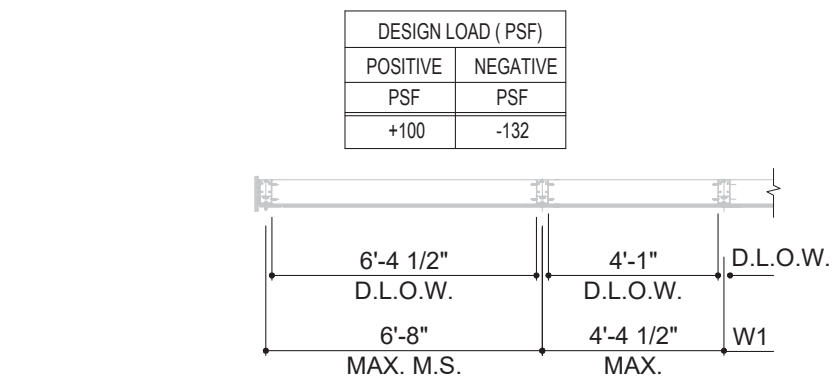
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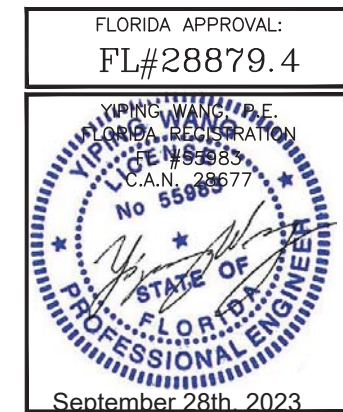
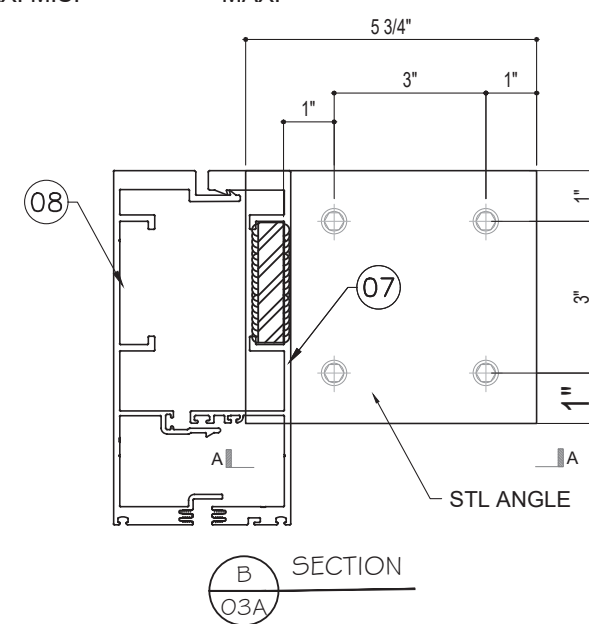
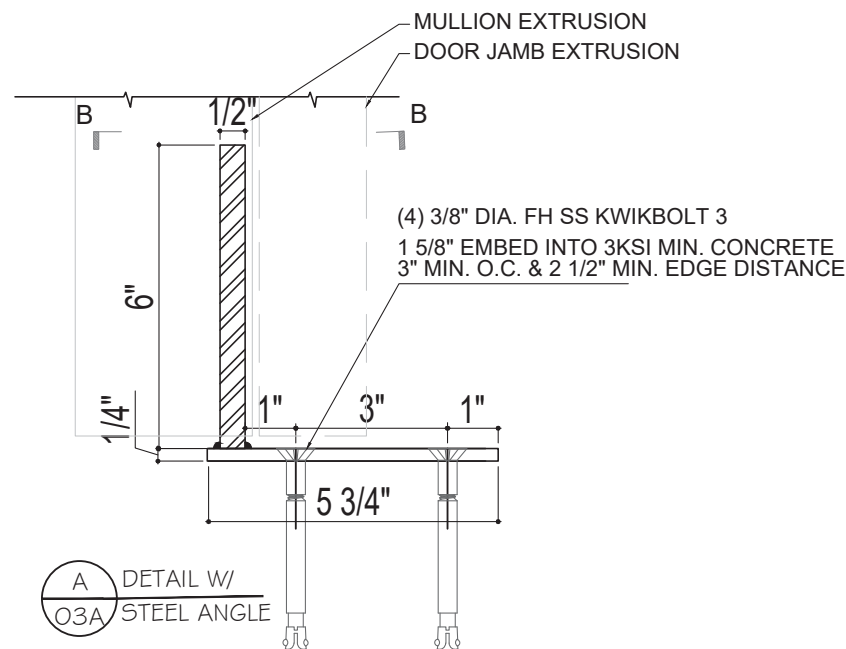
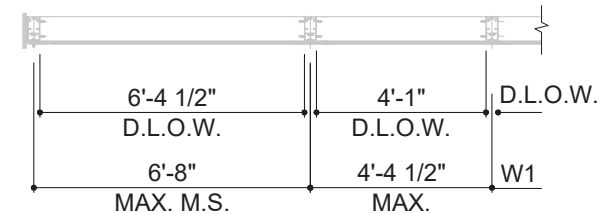
TYPICAL SINGLE SPAN ELEVATION - WINDOW WALL
SEE SHEET 03B FOR MULLION OPTIONS AND CAPACITIES



SINGLE SPAN ELEVATION - WINDOW WALL W/ DOOR



DESIGN LOAD (PSF)	
POSITIVE	NEGATIVE
PSF	PSF
+100	-132



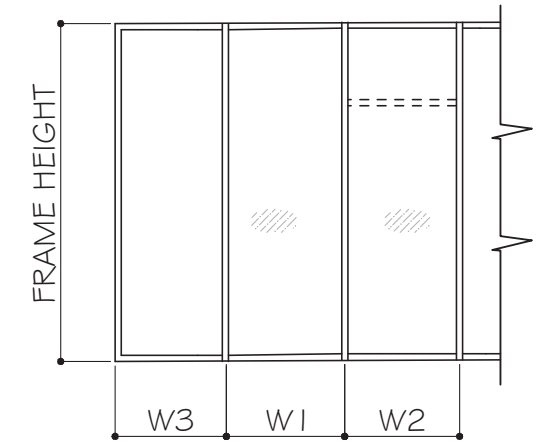
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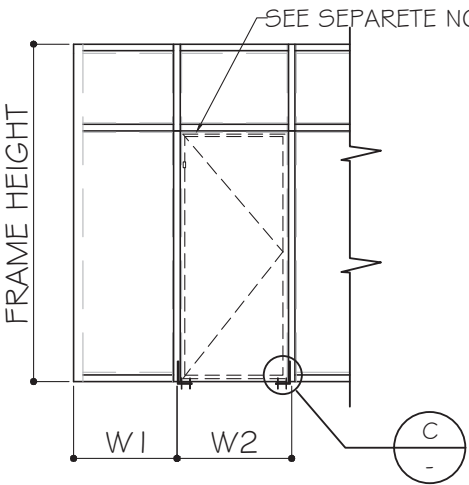
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SINGLE SPAN- DESIGN LOAD CAPACITY							
HEIGHT	SPACING	M1		M2,J1		CM3	
in.	in.	(+) psf.	(-) psf.	(+) psf.	(-) psf.	(+) psf.	(-) psf.
120	42	100	125	100	132	100	132
	48	100	125	100	132	100	132
	54	100	125	100	132	100	132
	60	100	125	100	132	100	132
126	42	100	125	100	132	100	132
	48	100	125	100	132	100	132
	54	100	125	100	132	100	132
	60	100	125	100	132	100	132
132	42	100	125	100	132	100	132
	48	100	125	100	132	100	132
	54	100	125	100	132	100	132
138	42	100	125	100	132	100	132
	48	100	125	100	132	100	132
	54	100	125	100	132	100	132
144	42	100	125	100	132	100	132
	48	100	125	100	132	100	132
	54	100	119	100	131	100	131
150	42	100	125	100	132	100	132
	48	100	124	100	132	100	132
	51.5	100	115	100	132	100	132

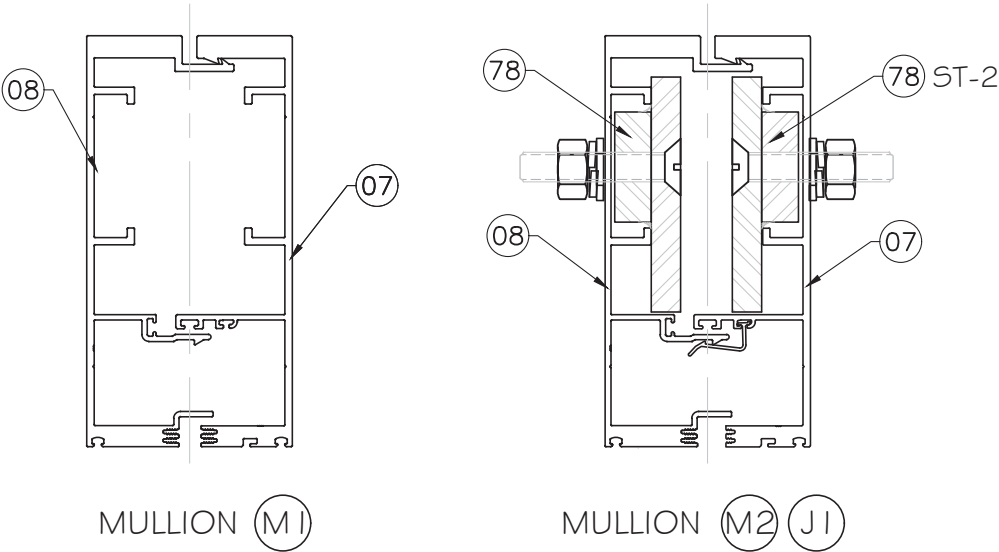


WIDTH (W) = $\frac{W1 + W2}{2}$ OR $\frac{W3 + W1}{2}$
AT MULLION

WIDTH (W) = W3
AT JAMB



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



SEE MULLION SECTION PROPERTIES ON SHEET 8.

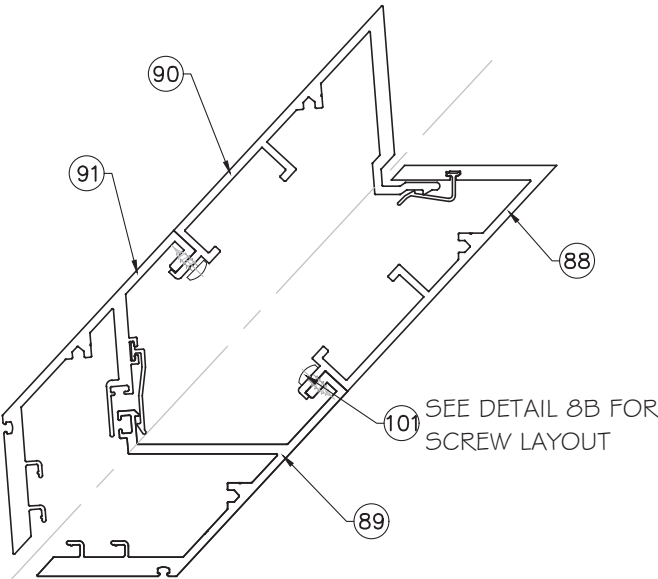
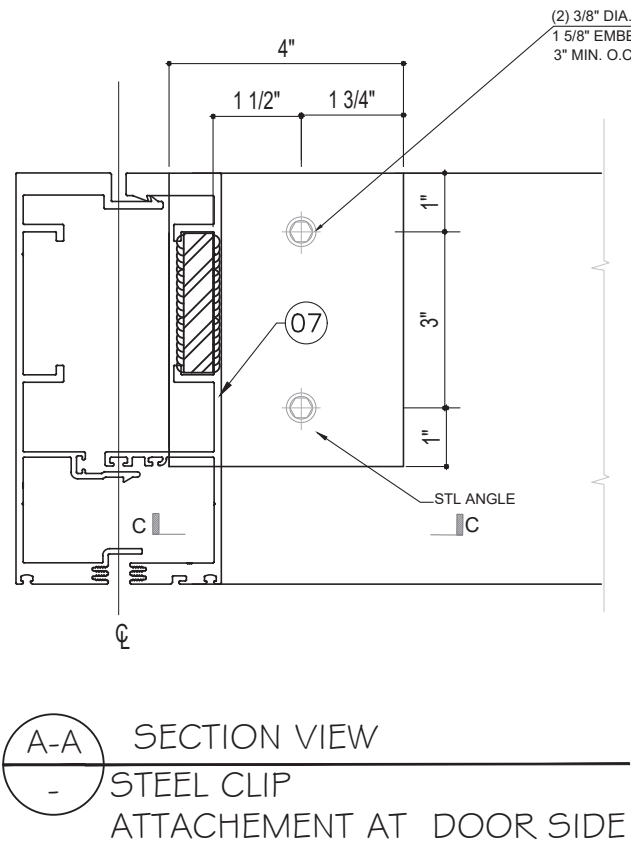
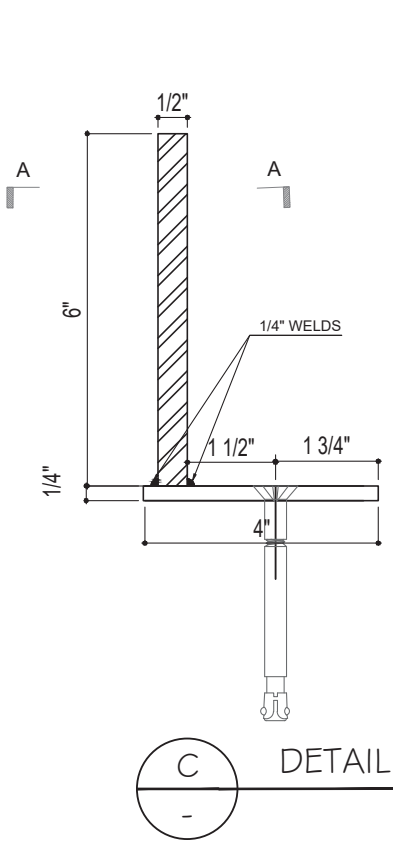


CHART BASED ON EQUAL LOAD @ BOTH SIDE. FOR UNEQUAL LOADS TO BE CHECKED BY DESIGNATED ENGINEER ON JAB BASE



(2) 3/8" DIA. FH SS KWIKBOLT 3
1 5/8" EMBED INTO 3KSI MIN. CONCRETE
3" MIN. O.C. & 3.5" MIN. EDGE DISTANCE

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
No 55985
C.A.N. 28677

September 28th, 2023

REVISIONS

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

MCY

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GLAZING CONSULTANTS

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MCY@mcycengineering.com

SERIES 7000 ALUMINUM CURTAIN WALL LAM. GLASS - LMI & SMI

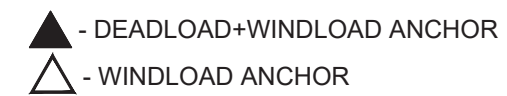
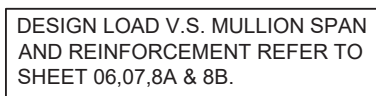
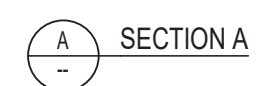
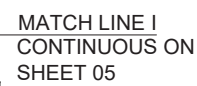
TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142

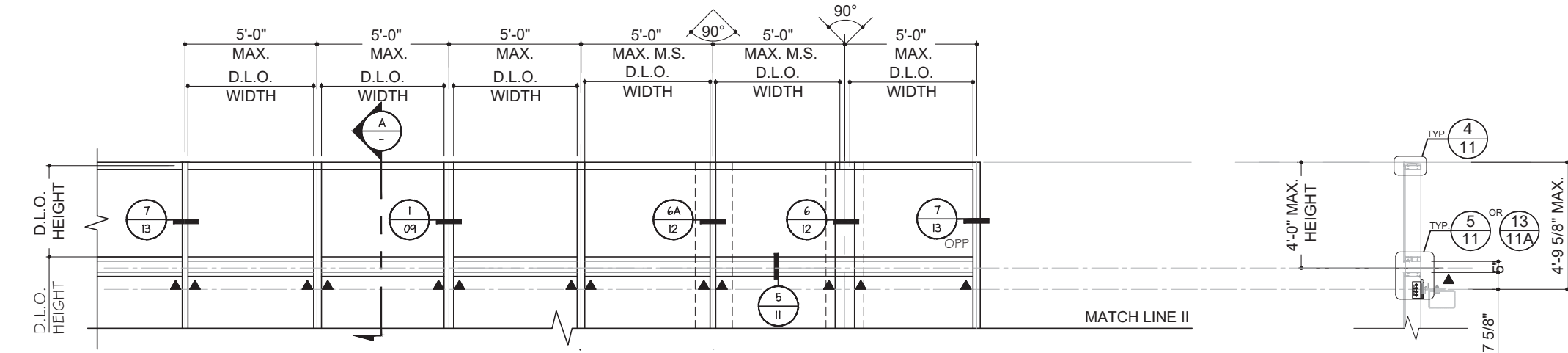
PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

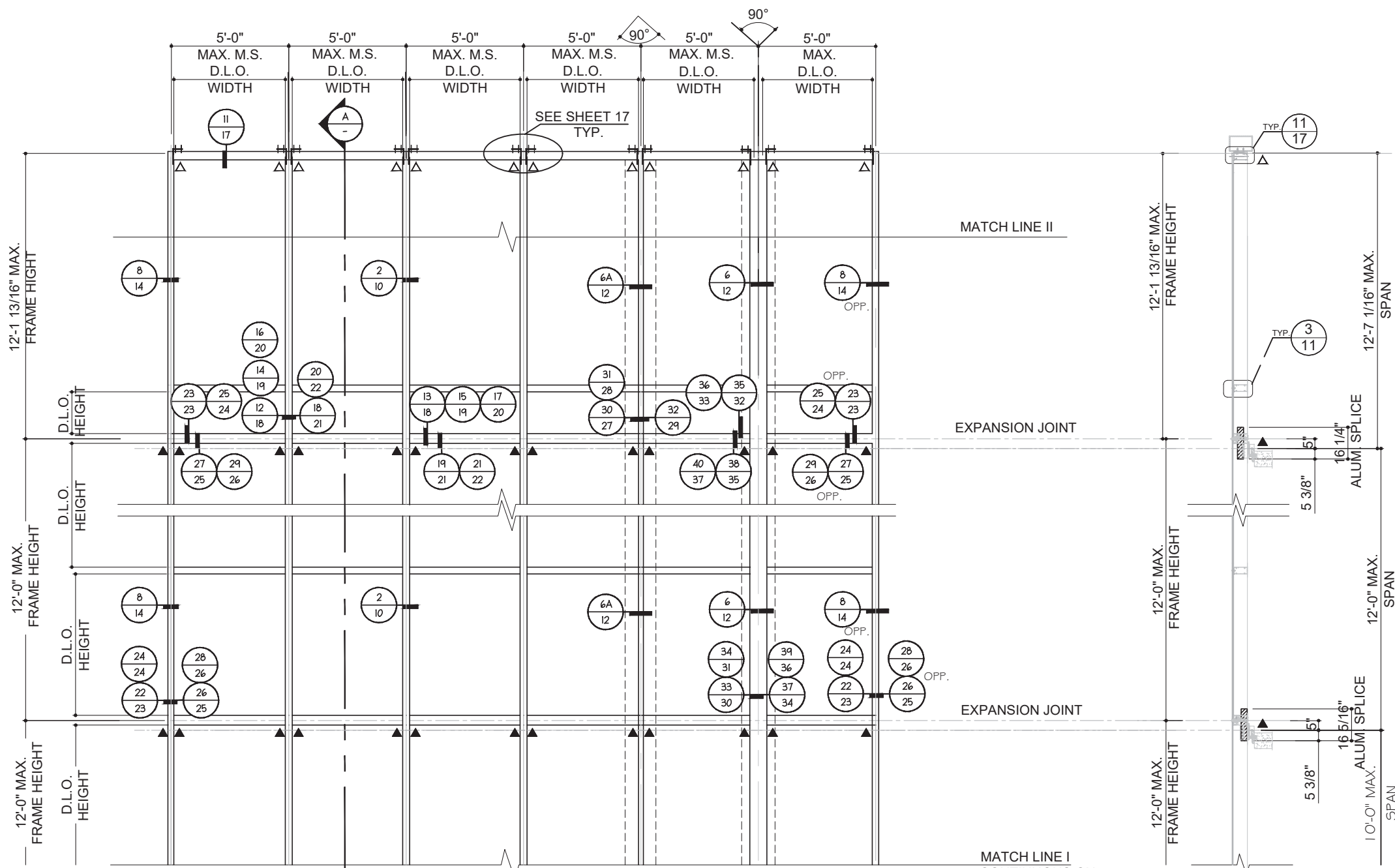
DRAWING NO.
AD19-07A

03B OF 38

04 OF 38



TOP CURTAIN WALL CANTILEVER OPTION



MULTIPLE SPAN ELEVATION - CURTAIN WALL

▲ - DEADLOAD+WINDLOAD ANCHOR
△ - WINDLOAD ANCHOR

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
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No. 55985
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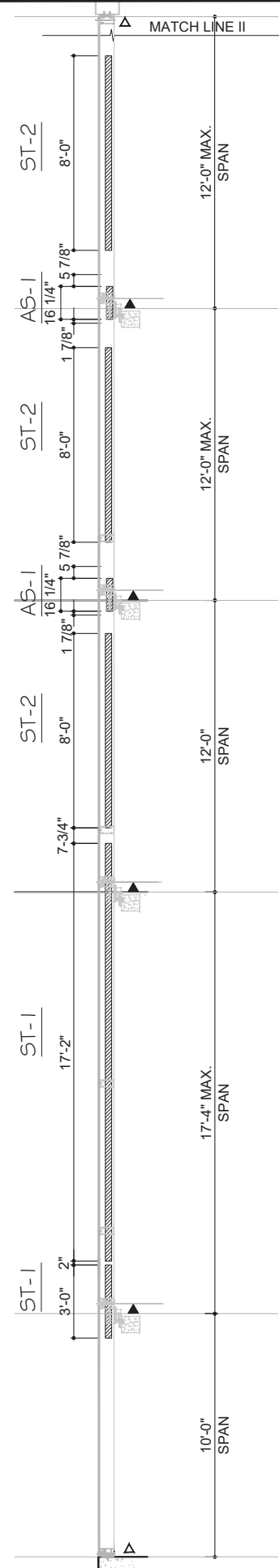
SERIES 7000 ALUMINUM CURTAIN WALL LAM. GLASS - LMI & SMI

TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142

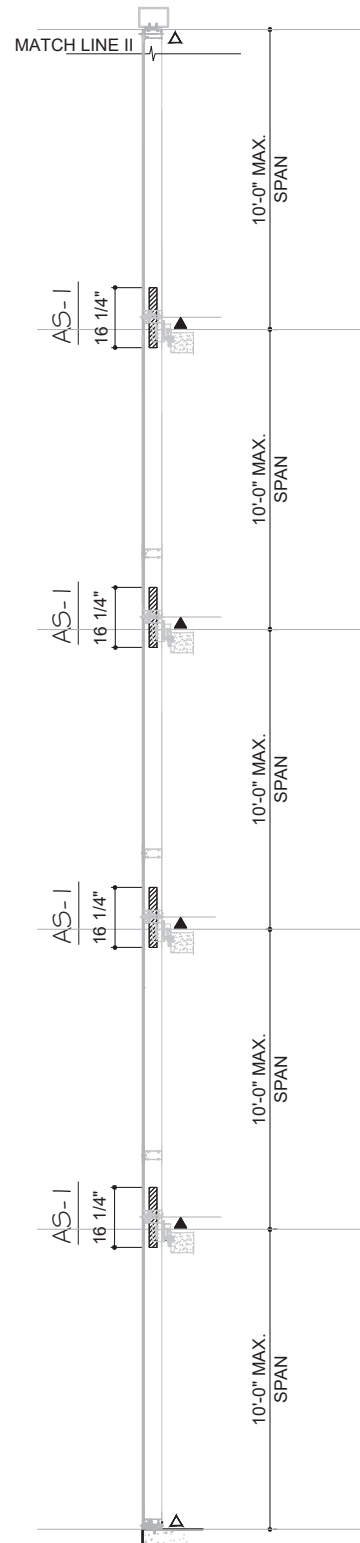
PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

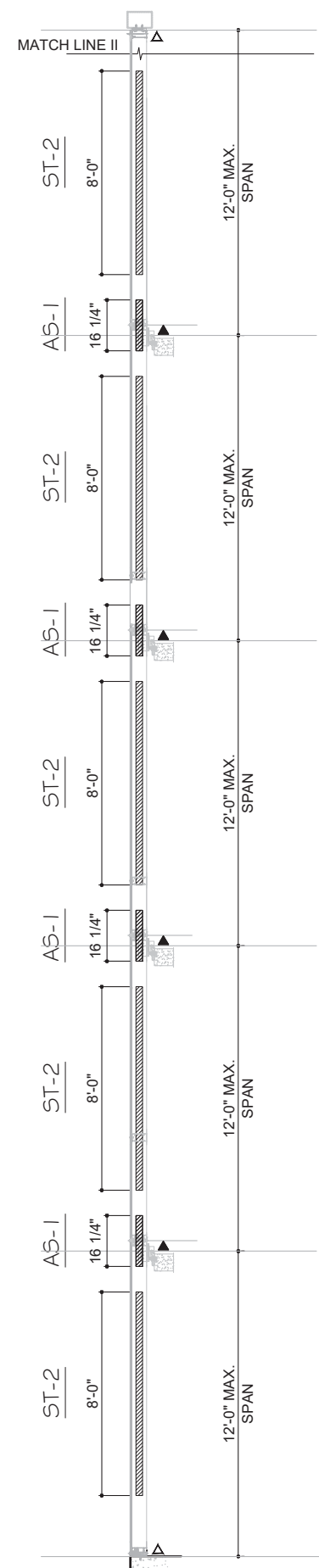
DRAWING NO.
AD19-07A



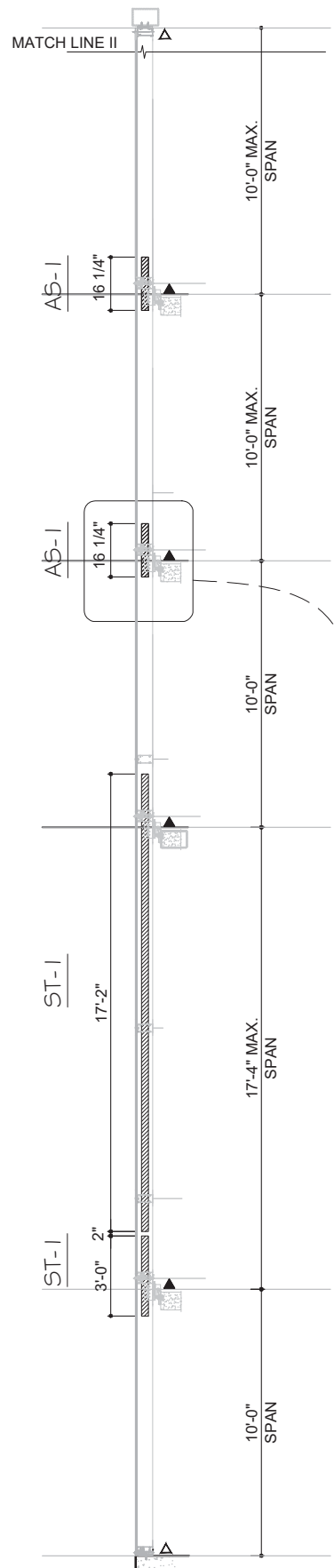
CASE 1
MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



CASE 2
MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF

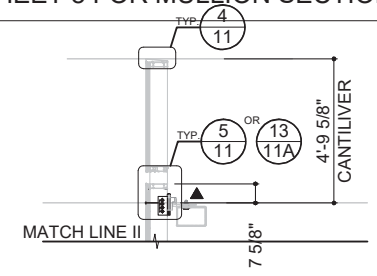


CASE 3
MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF

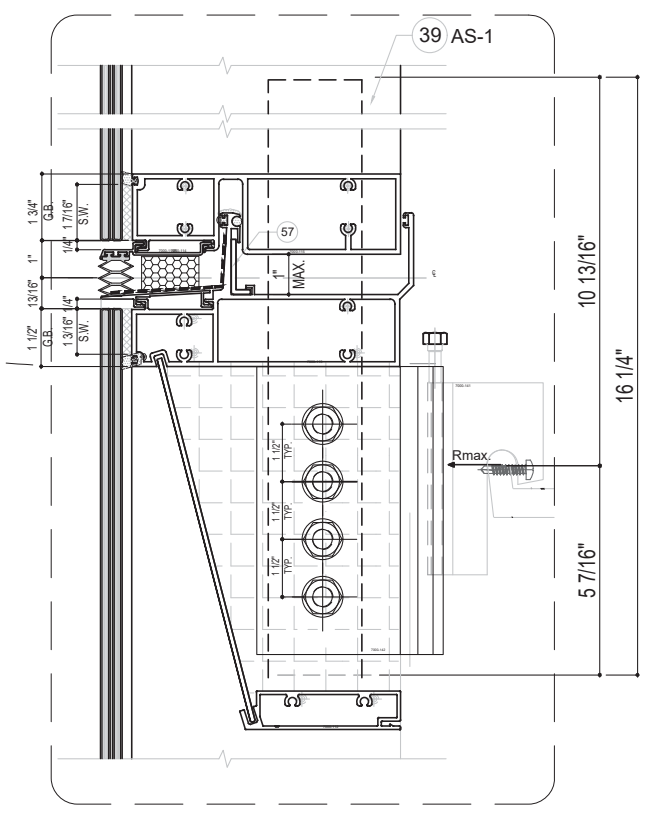


CASE 4
MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF

TYP. MULLION/JAMB SECTIONS W/ OR W/O REINFORCEMENT
NOTE: REFER TO SHEET 8 FOR MULLION SECTIONS & PROPERTIES



CASE 1 THRU CASE 6
W/ CANTILEVER
DESIGN LOAD SAME AS
CONDITION W/O CANTILE



SPLICE DETAIL TYPICAL
AS-1

- ▲ - DEADLOAD+WINDLOAD ANCHOR
- △ - WINDLOAD ANCHOR

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
#95385
C.A.N. 28677

September 28th, 2023

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

MCY
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TECNOGLASS, LLC
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MIAMI, FL 33142

PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A

06 OF 38

NOTE: REFER TO SHEET 8 FOR MULLION SECTIONS & PROPERTIES



MAX. DESIGN LOAD
+ 100 PSF
- 122 PSF



MAX. DESIGN LOAD
+ 100 PSF
- 124 PSF

NOTE: REFER TO SHEET 8 FOR MULLION SECTIONS & PROPERTIES



INSIDE / OUTSIDE
CORNER MULLION.

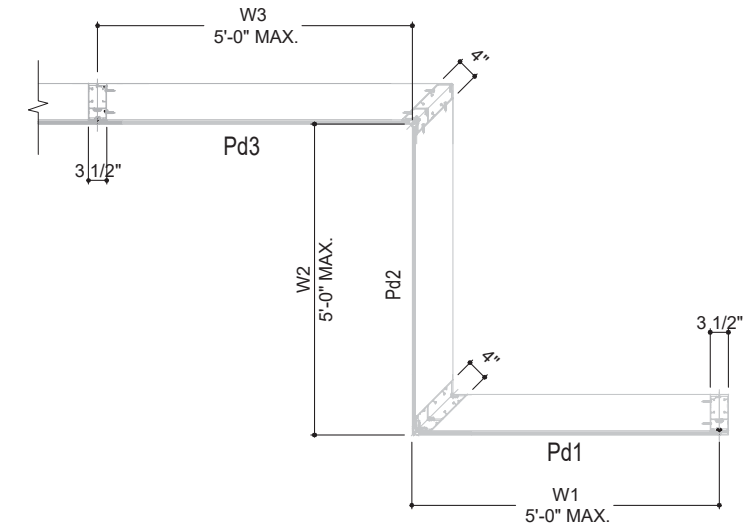
$$W1 \cdot PD1 = W2 \cdot PD2 = W3 \cdot PD3$$

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



INSIDE / OUTSIDE
CORNER MULLION.

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF

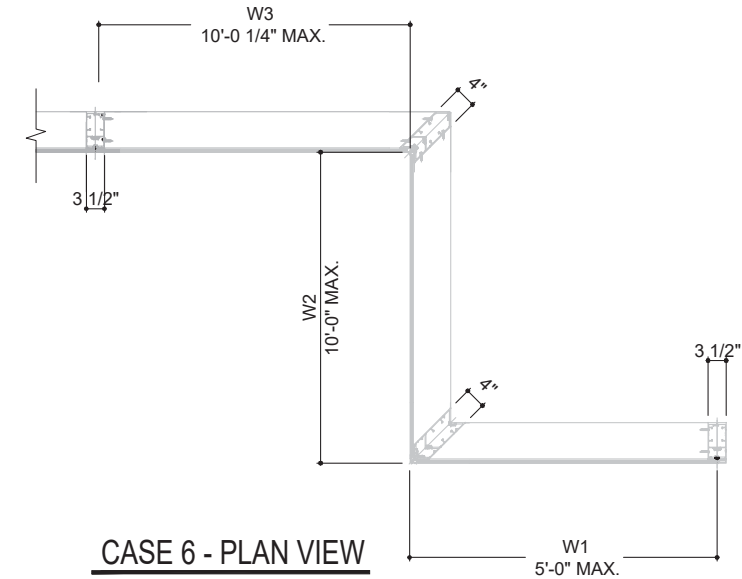

$$W1 \cdot Pd1 = W2 \cdot Pd2 = W3 \cdot Pd3$$

EQ LOAD

NOTE:

FOR $W1 \cdot Pd1 \neq W2 \cdot Pd2 \neq W3 \cdot Pd3$

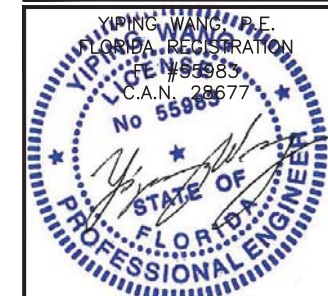
TO BE CHECKED SEPARATELY BY DESIGNATED ENGINEER
ON JOB CONDITION



CASE 6 - PLAN VIEW

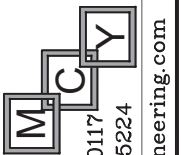
FLORIDA APPROVAL:

FL#28879.4



September 28th, 2023

REVISIONS	
NO.	DATE DESCRIPTION
R2	09.19.2023 FBC 2023



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

GLAZING CONSULTANTS

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PH: (303)-342-0890
FAX (786) 313-3963

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.

AD19-07A

07 OF 38

TYP. MULLION W/ OR W/O REINF. OPTIONS											
MULLION W/O REINF.			MULLION W/ ST-1			MULLION W/ ST-2			MULLION W/ ST-4		
ALUM. (7000-109 + 7000-108)	Ix in^4	Sx in^3	ALUM. (7000-109 + 7000-108)			ALUM. (7000-109 + 7000-108)			ALUM. (7000-109 + 7000-108)		
	33.4176	8.9666									
			2 * ST-1			2 * ST-2			2 * ST-4		
			9.2210			3.7440			6.5046		
			4.3132			1.6600			2.9832		
			TOTAL			TOTAL			TOTAL		
			Ix AI + Ix St*(2.9)			Ix AI + Ix St*(2.9)			Ix AI + Ix St*(2.9)		
			60.1585			44.2752			52.2809		
			--			--			--		

TYP. MULLION W/ OR W/O REINF. OPTIONS											
MULLION W/O REINF.			MULLION W/ ST-1			MULLION W/ ST-2			MULLION W/ ST-4		
ALUM. (7000-131 + 7000-109)	Ix in^4	Sx in^3	ALUM. (7000-131 + 7000-109)			ALUM. (7000-131 + 7000-109)			ALUM. (7000-131 + 7000-109)		
	34.7709	9.4261									
			2 * ST-1			2 * ST-2			2 * ST-4		
			9.2210			3.7440			6.5046		
			4.3132			1.6600			2.9832		
			TOTAL			TOTAL			TOTAL		
			Ix AI + Ix St*(2.9)			Ix AI + Ix St*(2.9)			Ix AI + Ix St*(2.9)		
			61.5089			45.6285			53.6342		
			--			--			--		

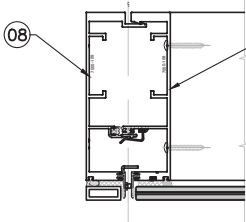
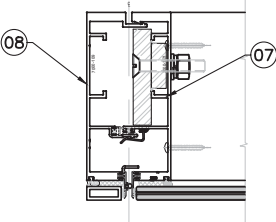
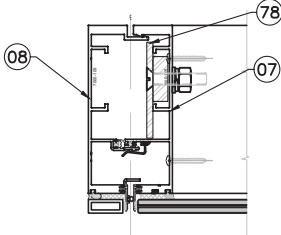
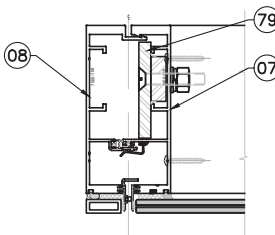
TYP. MULLION W/ OR W/O REINF. OPTIONS											
MULLION W/O REINF.			MULLION W/ ST-1			MULLION W/ ST-2			MULLION W/ ST-4		
ALUM. (7000-108 + 7000-102)	Ix in^4	Sx in^3	ALUM. (7000-102 + 7000-108)			ALUM. (7000-102 + 7000-108)			ALUM. (7000-102 + 7000-108)		
	40.5240	9.3870									
			2 * ST-1			2 * ST-2			2 * ST-4		
			9.2210			3.7440			6.5046		
			4.3132			1.6600			2.9832		
			TOTAL			TOTAL			TOTAL		
			Ix AI + Ix St*(2.9)			Ix AI + Ix St*(2.9)			Ix AI + Ix St*(2.9)		
			67.2620			51.3816			59.3873		
			--			--			--		

TYP. MULLION W/ OR W/O REINF. OPTIONS											
MULLION W/O REINF.			MULLION W/ ST-1			MULLION W/ ST-2			MULLION W/ ST-4		
ALUM. (7000-120 + 7000-122)	Ix in^4	Sx in^3	ALUM. (7000-120 + 7000-122)			ALUM. (7000-120 + 7000-122)			ALUM. (7000-120 + 7000-122)		
	98.2386	16.7443									
			2 * ST-1			2 * ST-2			2 * ST-4		
			9.2210			3.7440			6.5046		
			4.3132			1.6600			2.9832		
			TOTAL			TOTAL			TOTAL		
			Ix AI + Ix St*(2.9)			Ix AI + Ix St*(2.9)			Ix AI + Ix St*(2.9)		
			67.2620			51.3816			59.3873		
			--			--			--		

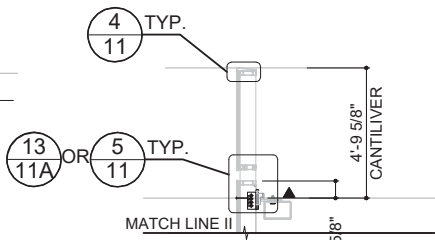
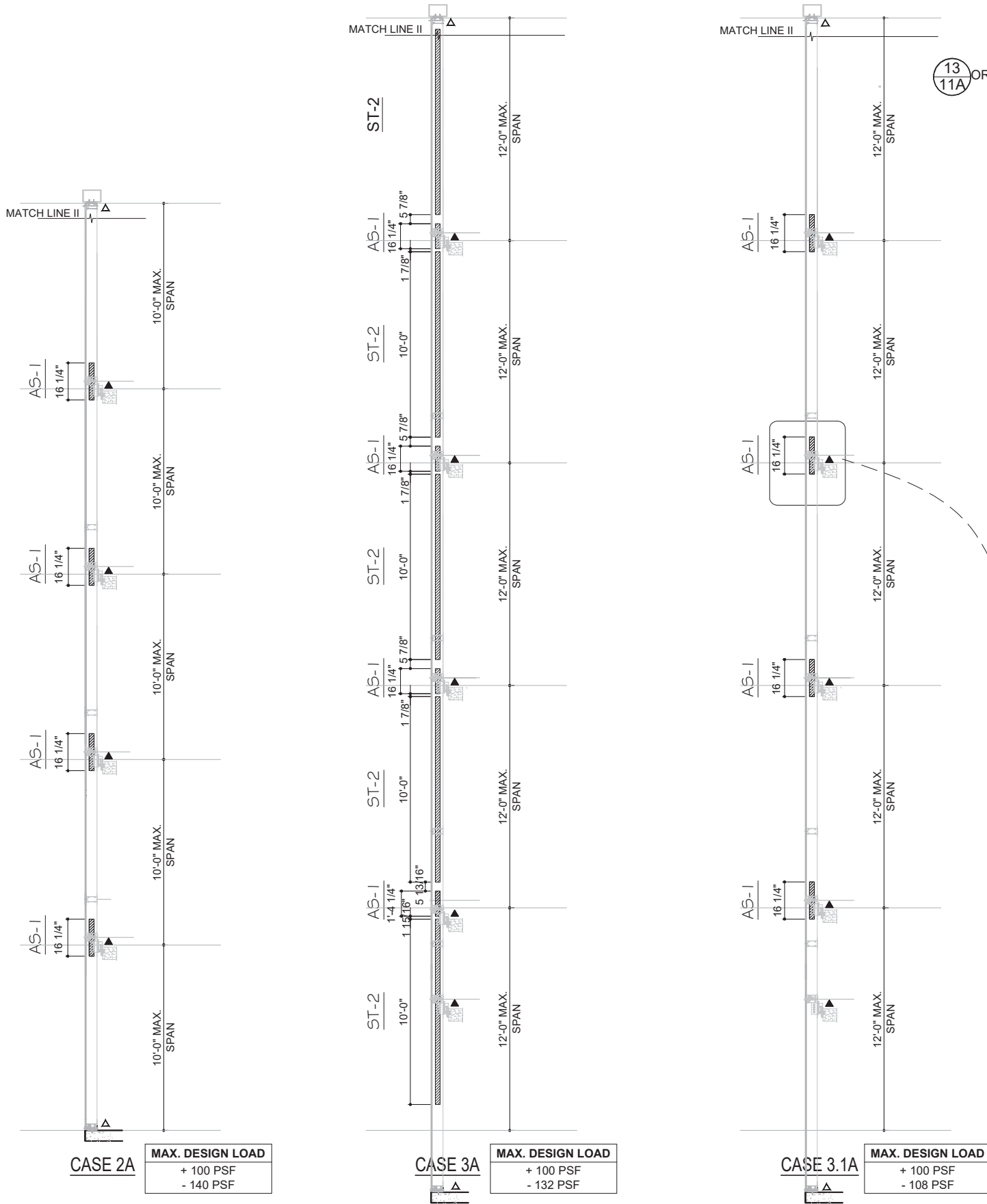
TYP. MULLION W/ OR W/O REINF. OPTIONS											
MULLION W/O REINF.			MULLION W/ ST-1			MULLION W/ ST-2			MULLION W/ ST-4		
ALUM. (7000-120 + 7000-122)	Ix in^4	Sx in^3	ALUM. (7000-120 + 7000-122)			ALUM. (7000-120 + 7000-122)			ALUM. (7000-120 + 7000-122)		
	98.2386	16.7443									
			2 * ST-1			2 * ST-2			2 * ST-4		
			9.2210			3.7440			6.5046		
			4.3132			1.6600			2.9832		
			TOTAL			TOTAL			TOTAL		
			Ix AI + Ix St*(2.9)			Ix AI + Ix St*(2.9)			Ix AI + Ix St*(2.9)		
			67.2620			51.3816			59.3873		
			--			--			--		

STRUCTURAL BUTT GLAZED
STRAIGHT JAMB

TYP. JAMB W/ OR W/O REINF. OPTIONS

JAMB W/O REINF.			JAMB W/ ST-1			JAMB W/ ST-2			JAMB W/ ST-4		
											
	Ix in^4	Sx in^3		Ix in^4	Sx in^3		Ix in^4	Sx in^3		Ix in^4	Sx in^3
ALUM. (7000-109 + 7000-108)	33.4176	8.9666	ALUM. (7000-109 + 7000-108)	33.4176	8.9666	ALUM. (7000-109 + 7000-108)	33.4176	8.9666	ALUM. (7000-109 + 7000-108)	33.4176	8.9666
			1 * ST-1	4.6105	2.1566	1 * ST-2	1.8720	0.8300	1 * ST-4	3.2523	1.4916
			TOTAL 1x Al + 1x St*(2.9)	46.7881	--	TOTAL 1x Al + 1x St*(2.9)	38.8464	--	TOTAL 1x Al + 1x St*(2.9)	42.8492	--

TYP. MULLION/JAMB SECTIONS W/ OR W/O REINFORCEMENT
NOTE: REFER TO SHEET 8A FOR MULLION SECTIONS & PROPERTIES



CASE 2A, 3A and 3.1A
W/ CANTILEVER
(OPTION)

NOTE: DESIGN LOAD SAME AS
CONDITION W/O CANTILEVER

TYP. MULLION W/ OR W/O REINF. OPTIONS

STRUCTURAL BUTT GLAZED CURVED 172° MULLION

Diagram showing the cross-section of a Mullion W/O Reinf. The angle is 172.00° MIN. Callouts 87 and 86 point to specific components.

MULLION W/O REINF.
MULLION - 172°

	Ix in ⁴	Sx in ³
ALUM. (7000-464 + 7000-465)	29.0823	8.2186

Diagram showing the cross-section of a Mullion with Reinf. The angle is 172.00° MIN. Callouts 87, 86, and 78 point to specific components.

MULLION WITH REINF.
ST-2 (1/4" THK.)
MULLION - 172°

	Ix in ⁴	Sx in ³
ALUM. (7000-464 + 7000-465)	29.0823	8.2186
2 * ST-2	3.7440	1.6600
TOTAL Ix AI + Ix St*(2.9)	39.9399	--

TYP. JAMB W/ OR W/O REINF. OPTIONS

STRUCTURAL BUTT GLAZED CURVED 172° JAMB

Diagram showing the cross-section of a Jamb W/O Reinf. The angle is 172.00° MIN. Callouts 87 and 86 point to specific components.

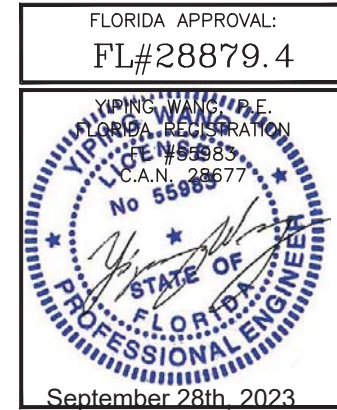
JAMB W/O REINF.
MULLION - 172°

	Ix in ⁴	Sx in ³
ALUM. (7000-464 + 7000-465)	29.0823	8.2186

Diagram showing the cross-section of a Jamb with Reinf. The angle is 172.00° MIN. Callouts 87, 86, and 78 point to specific components.

JAMB WITH REINF.
ST-2 (1/4" THK.)
MULLION - 172°

	Ix in ⁴	Sx in ³
ALUM. (7000-464 + 7000-465)	29.0823	8.2186
1 * ST-2	1.8720	0.8300
TOTAL Ix AI + Ix St*(2.9)	34.5111	--



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PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-07A
08A OF 38	

MATCH LINE II

A5-2
16 1/4"

12'-0" MAX.
SPAN

A5-2
16 1/4"

12'-0" MAX.
SPAN

A5-2
16 1/4"

12'-0" MAX.
SPAN

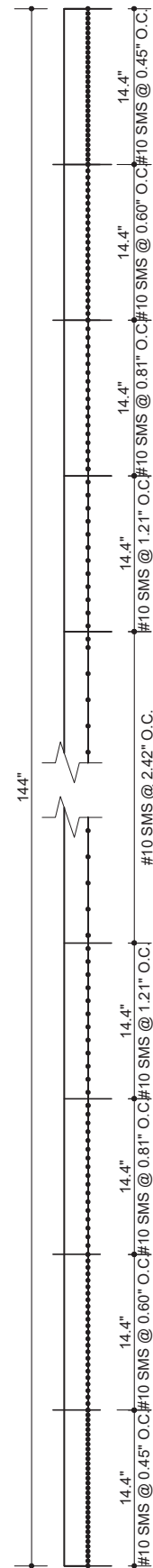
A5-2
16 1/4"

12'-0" MAX.
SPAN



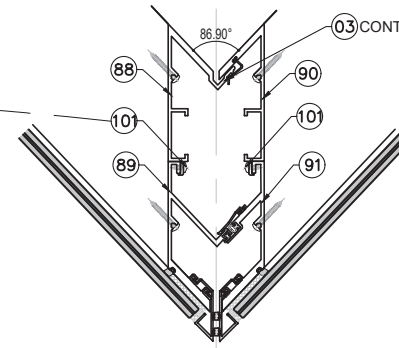
EQ LOAD

**101 #10 x 1/2" LG. PH
SMS SCREW
LAYOUT
(TYPICAL)**



STRUCTURAL GLAZED CORNER MULLIONS

OUTSIDE CORNER MULLION W/O REINF

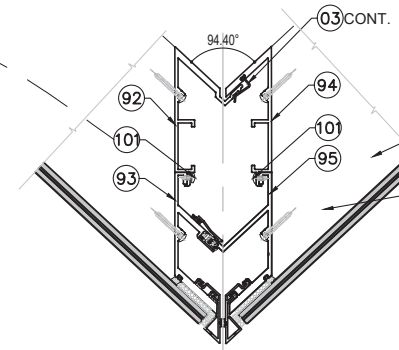


ALUM. (7000-454 + 7000-455) / (7000-452 + 7000-453)	lx	Sx
	in^4	in^3
	106.5111	17.4263

	Ix in ⁴	Sx in ³
ALUM. (7000-454 + 7000-455) / (7000-452 + 7000-453) X-Direction	49.1628	11.2743
ALUM. (7000-454 + 7000-455) / (7000-452 + 7000-453) Y-Direction	60.5703	11.8468

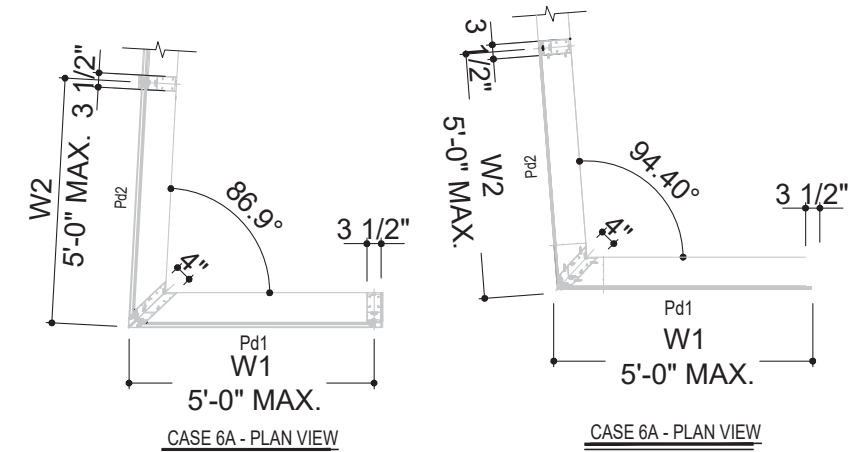
STRUCTURAL GLAZED CORNER MULLIONS

OUTSIDE CORNER MULLION W/O REINF.



ALUM. (7000-458 + 7000-459) / (7000-460 + 7000-461)	lx	Sx
	in^4	in^3
	88.0451	15.5088

	Ix in ⁴	Sx in ³
ALUM. (7000-458 + 7000-459) / (7000-460 + 7000-461) X-Direction	46.1732	10.7425
ALUM. (7000-458 + 7000-459) / (7000-460 + 7000-461) Y-Direction	44.9054	9.7428



$$W1 \cdot Pd1 = W2 \cdot Pd2 = W3 \cdot Pd3 \quad \text{EQ LOAD}$$

NOTE:
FOR $W1 \cdot Pd1 \neq W2 \cdot Pd2 \neq W3 \cdot Pd3$
TO BE CHECKED SEPARATELY BY DESIGNATED ENGINEER
ON JOB CONDITION

FLORIDA APPROVAL:
FL#28879.4



CELESTIAL WALL CLASS - CIVIL & ENVIRONMENTAL

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MIAMI, FL 33142
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GLAZING CONSULTANTS

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12781 MIARAMAR PARKWAY #301
MIRAMAR, FL 33027
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www.MCYEngineering.com

www.mc1engrmeeting.com mc10encyengrmeeting.com

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

09.19.2023

SALE	AS SHOWN
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AWN	James
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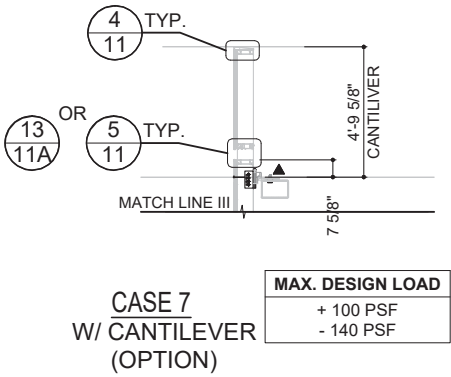
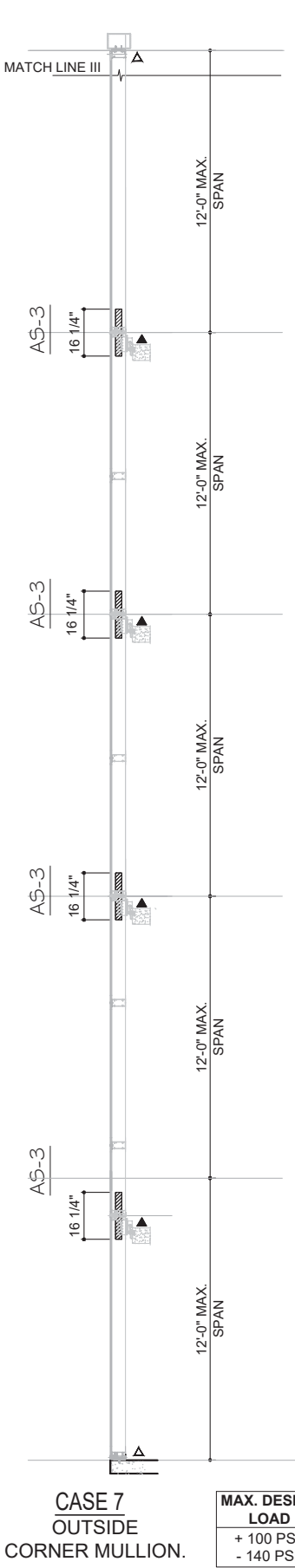
PROJECT	MCY19-010
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DRAWING NO.

AD19-07A

8B OF 38

135° OUTSIDE CORNER MULLION



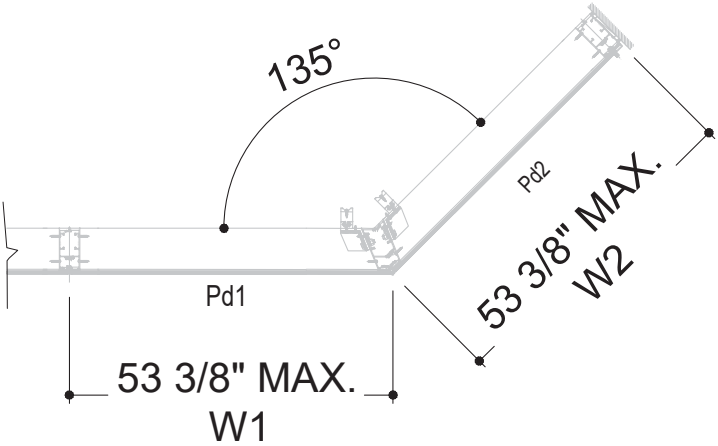
MAX. DESIGN LOAD	
+ 100 PSF	
- 140 PSF	

STRUCTURAL GLAZED CORNER MULLIONS

135° INSIDE OR OUTSIDE CORNER MULLION OPTIONS

OUTSIDE CORNER MULLION W/O REINF.

ALUM. (7000-108R + 7000-109R)	I_x	S_x
	in^4	in^3
	42.9400	8.4000



CASE 7 - PLAN VIEW

ONLY FOR: W1 * Pd1= W2 * Pd2 EQ LOAD

NOTE:
FOR W1*Pd1 ≠ W2 *Pd2
TO BE CHECKED SEPARATELY BY DESIGNATED ENGINEER
ON JOB CONDITION

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
No 55985
C.A.N. 28677

September 28th, 2023

REVISIONS

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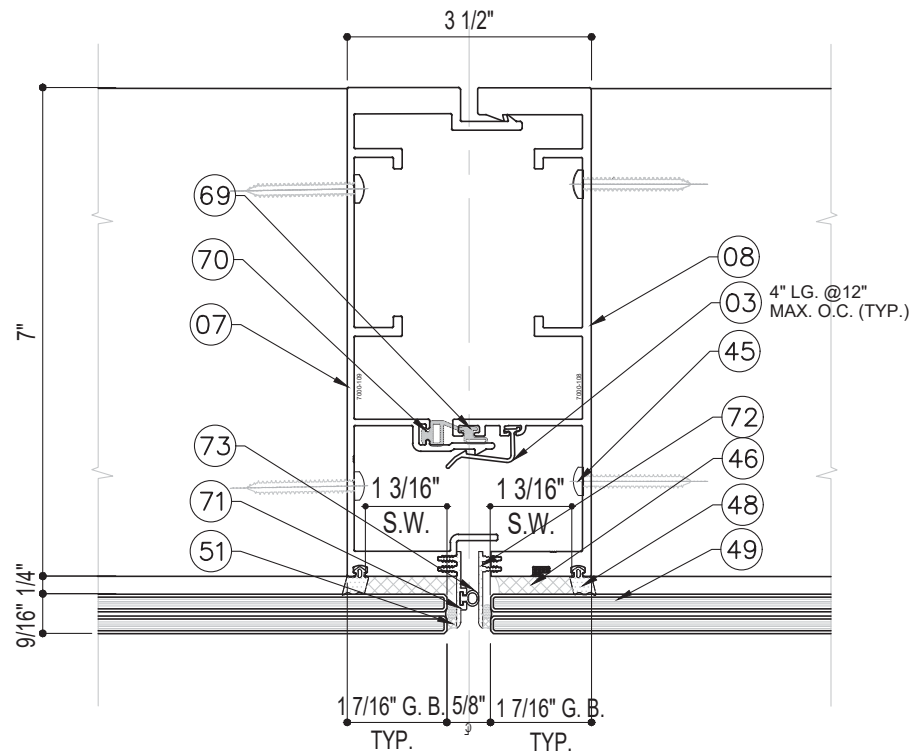
SERIES 7000 ALUMINUM CURTAIN WALL LAM. GLASS - LMI & SMI

TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305) - 342-0890 FAX (786) 513-3965

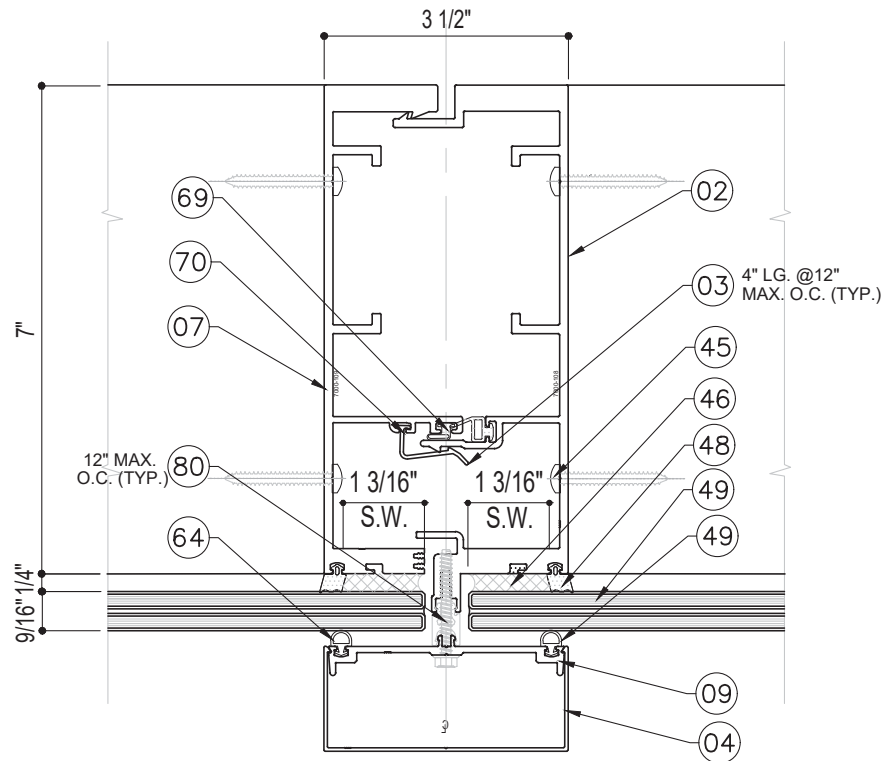
DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A

08C OF 38



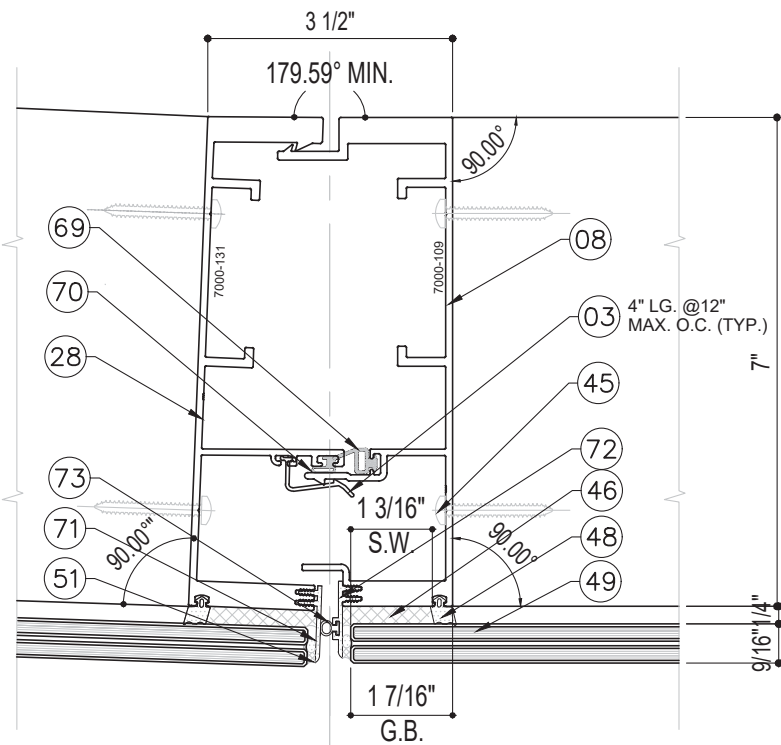
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09 TYP. MULLION BUTT GLAZED
UNREINF.



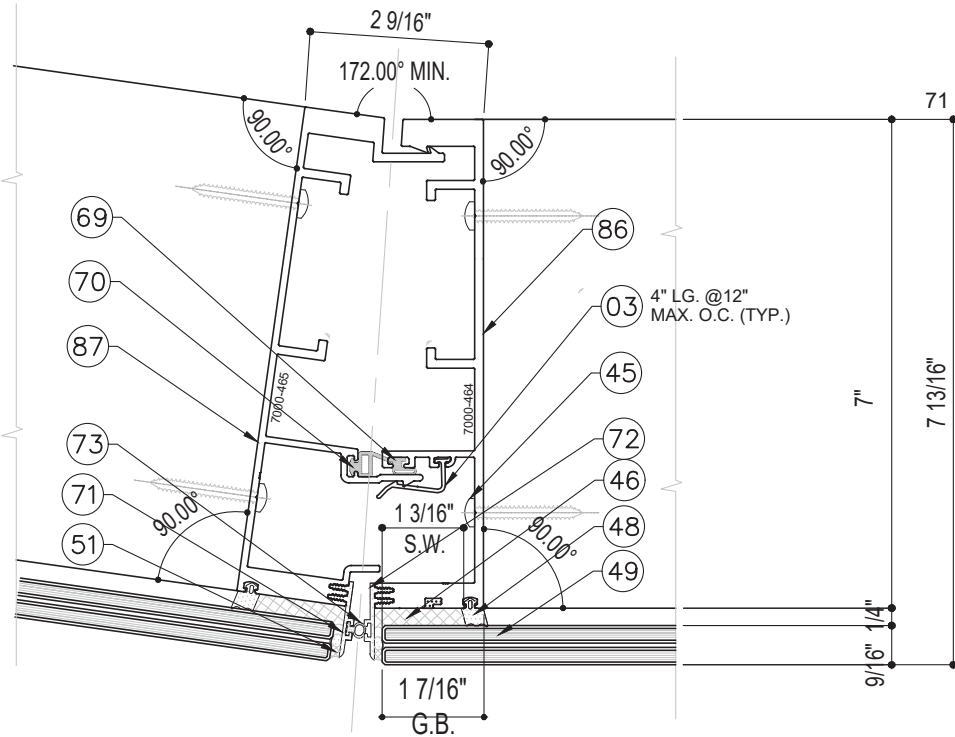
1
09 TYP. MULLION CAPTURED

NOTE:
1 3/16" SILICONE WIDTH SHOWN ON
TYPICAL DETAILS. FOR SILICONE
CAPACITIES, SEE CHART ON SHEET 03

NOTE:
REFER TO SHEETS 6, 7 & 8A FOR TYP.
MULLION SPANS V.S. REINFORCEMENT
AND MAX. DESIGN LOAD.



1
09 TYP. MULLION CURVED



1
09 TYP. MULLION CURVED

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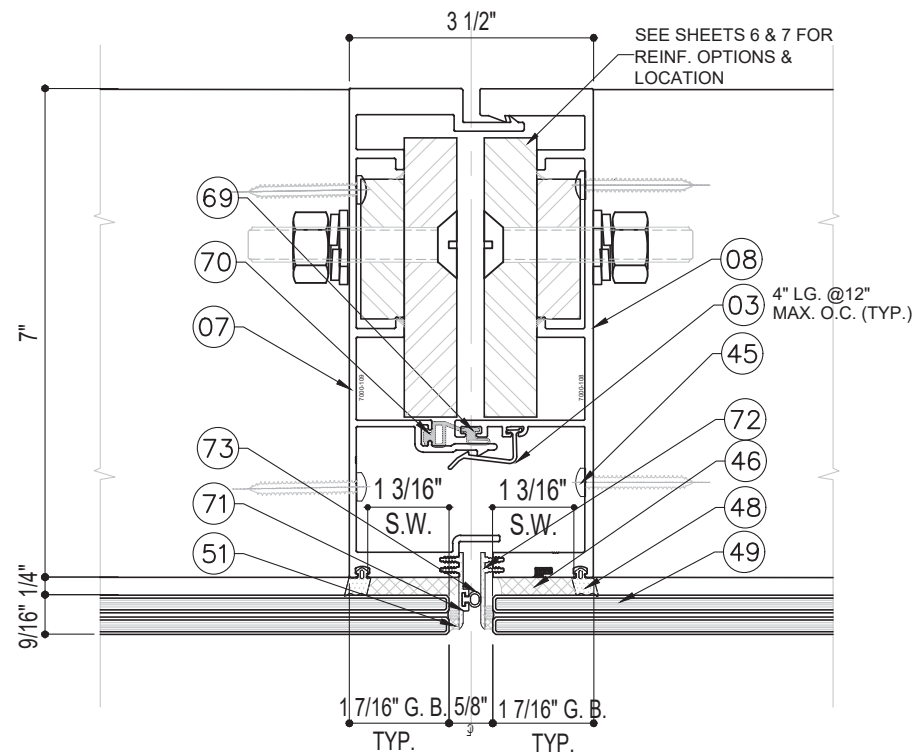
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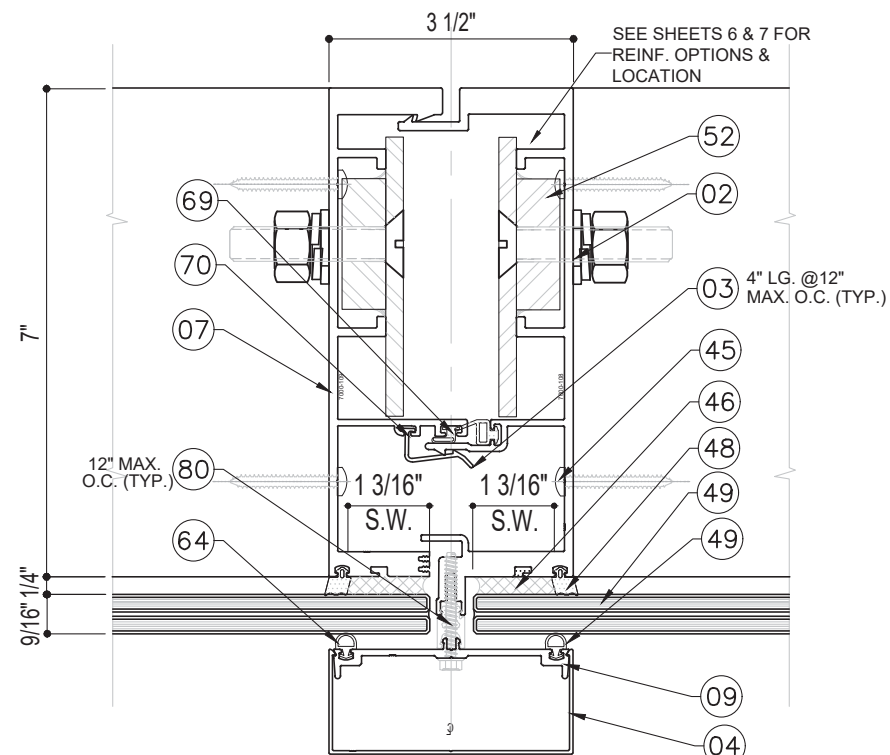
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DRAWING NO.
AD19-07A

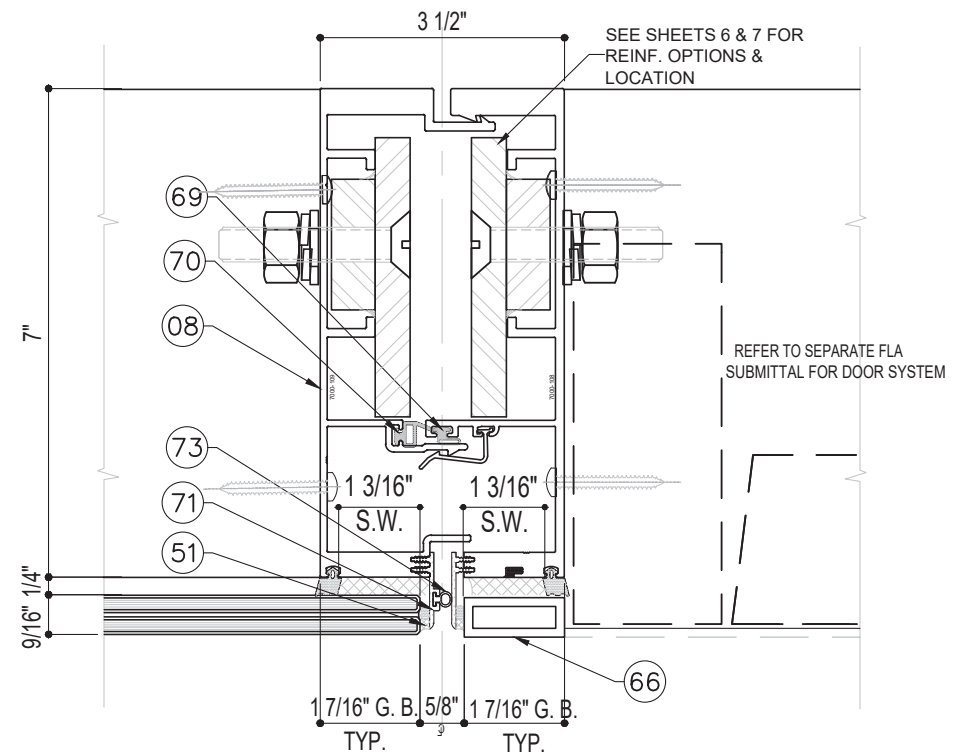
09 OF 38



2 TYP. MULLION BUTT GLAZED W/ REINF.
10 REINF. OPTION (2) ST-1



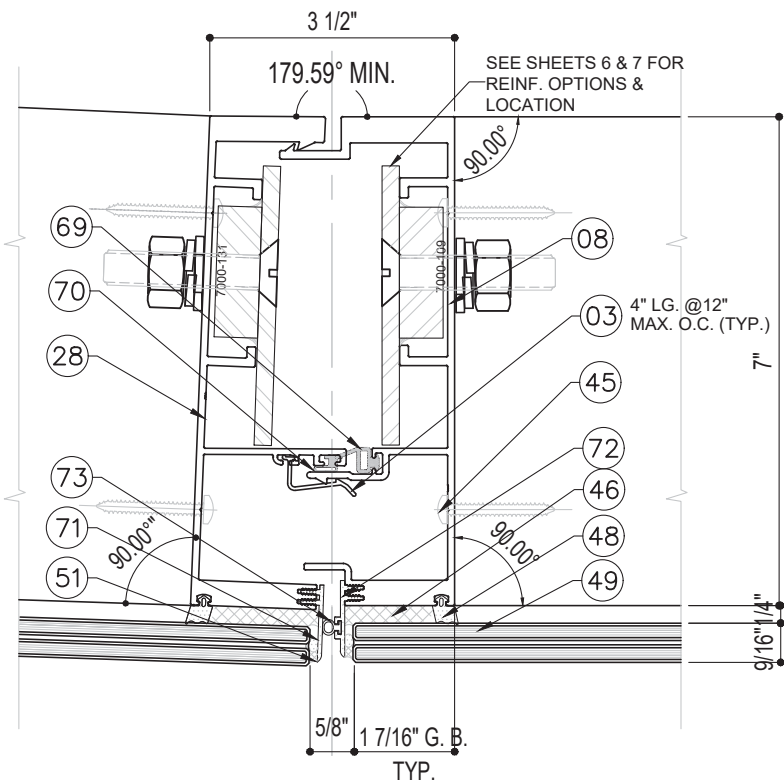
2 TYP. MULLION CAPTURED W/ REINF.
10 REINF. OPTION (2) ST-2



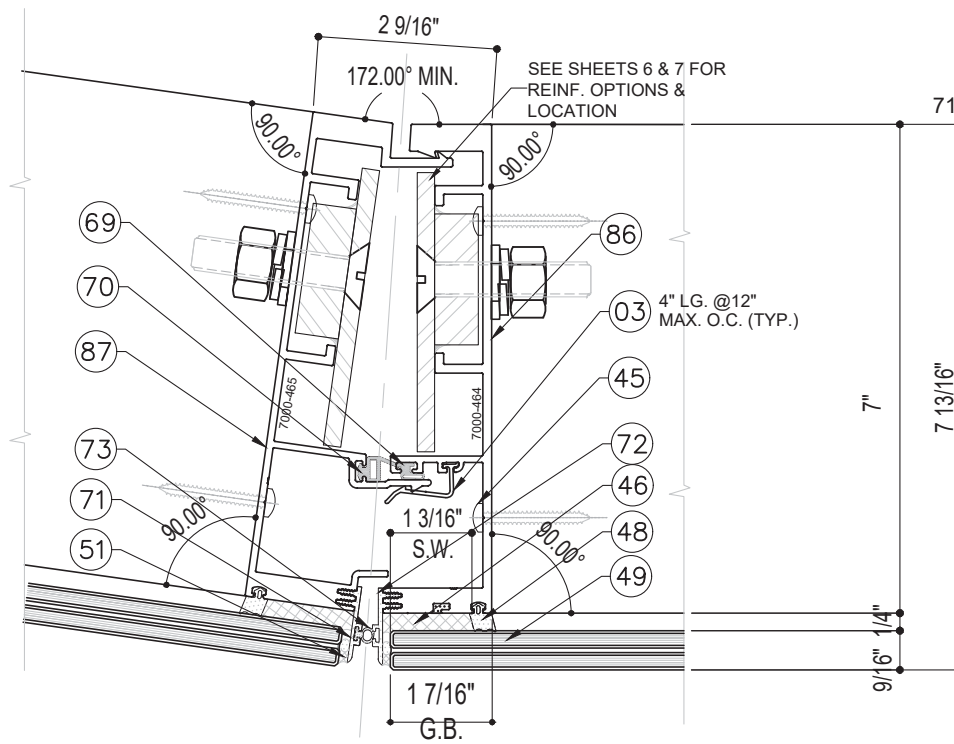
2A TYP. DOOR JAMB MULLION BUTT GLAZED W/ REINF.
10 REINF. OPTION (2) ST-4 FOR SINGLE SPAN CONDITION

NOTE:
REFER TO SHEETS 6, 7 & 8A FOR TYP.
MULLION SPANS V.S. REINFORCEMENT
AND MAX. DESIGN LOAD.

NOTE:
1 3/16" SILICONE WIDTH SHOWN ON
TYPICAL DETAILS. FOR SILICONE
CAPACITIES, SEE CHART ON SHEET 03

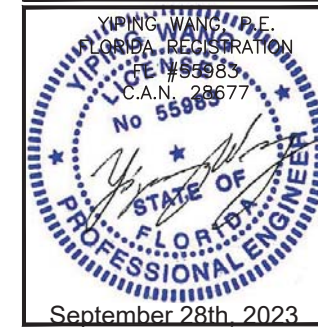


2 TYP. MULLION CURVED W/ REINF.
10 REINF. OPTION (2) ST-2



2 TYP. MULLION CURVED W/ REINF.
10 REINF. OPTION (2) ST-2

FLORIDA APPROVAL:
FL#28879.4



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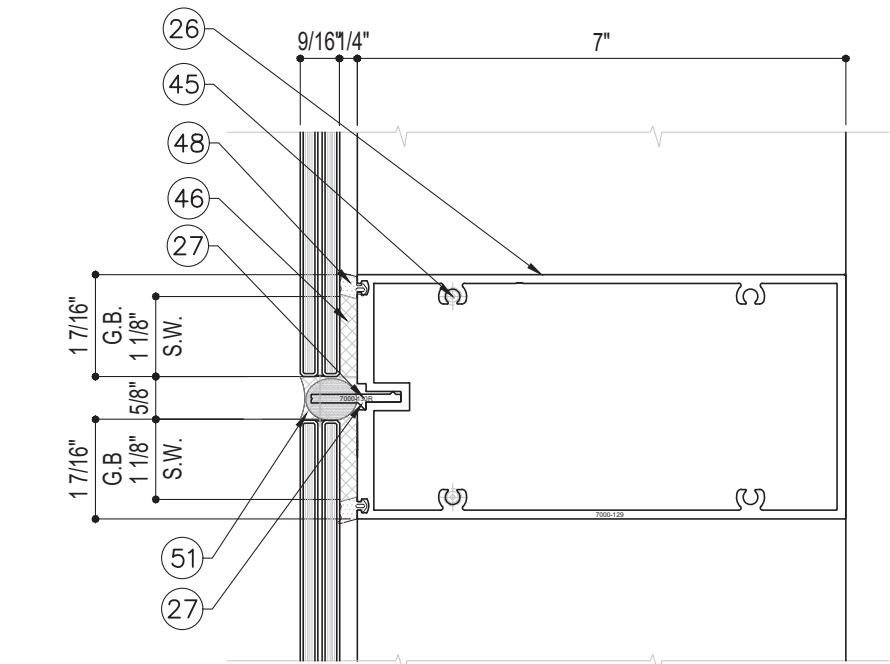
DATE 09.19.2023
SCALE AS SHOWN
DRAWN James
PROJECT MCY19-010

DRAWING NO.
AD19-07A

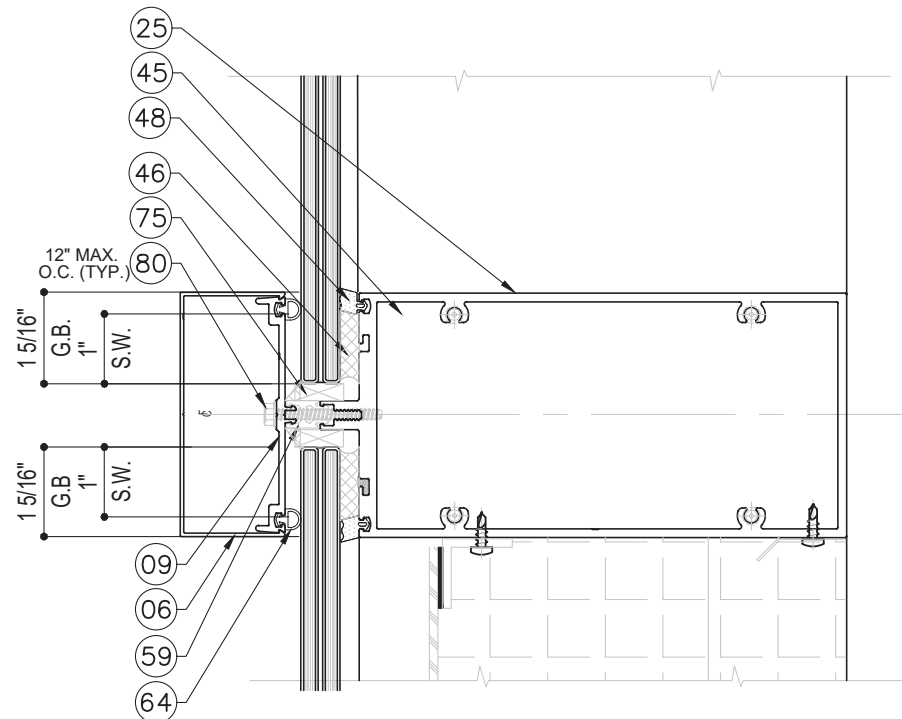
10 OF 38

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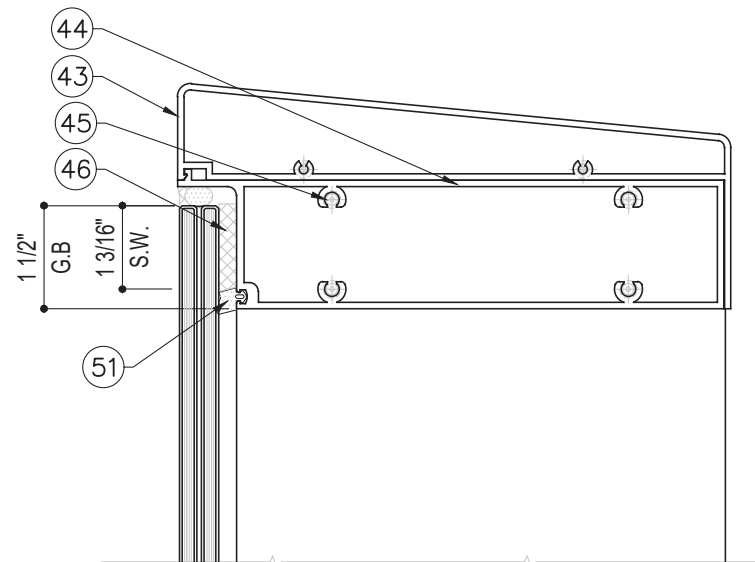
NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023



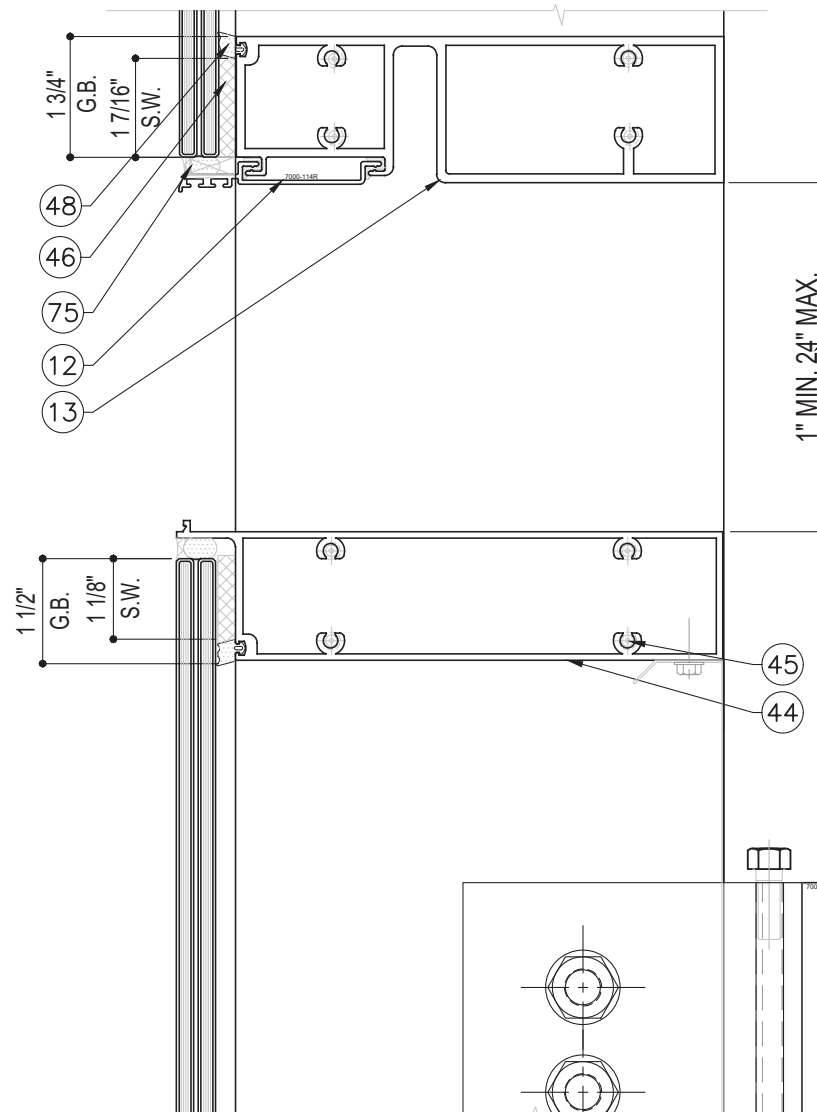
3 HORIZONTAL BUTT GLAZED
11 OPTION 1



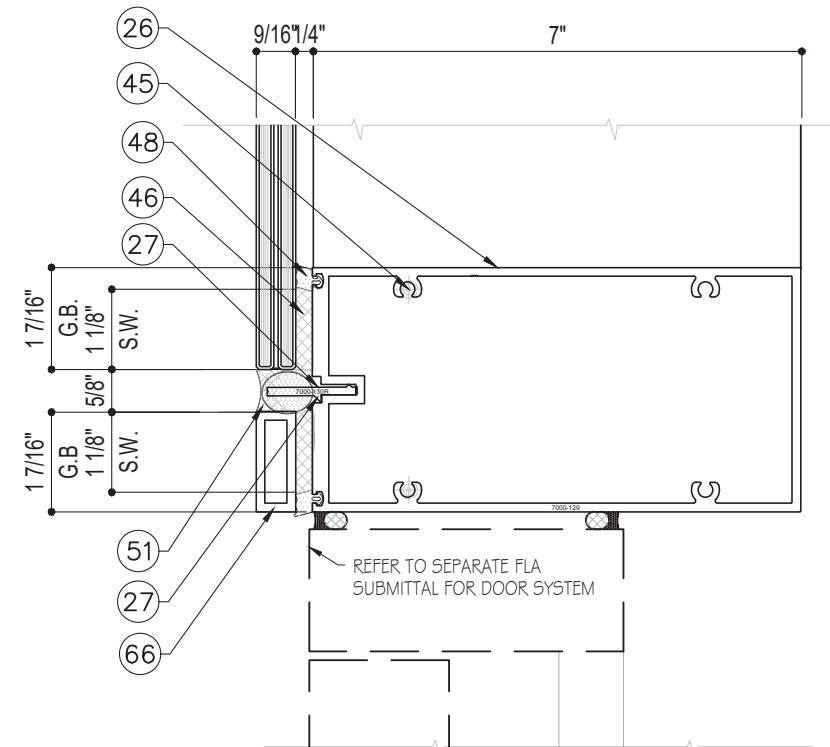
3 HORIZONTAL CAPTURED
11 OPTION 2



4 PARAPET HEAD
11

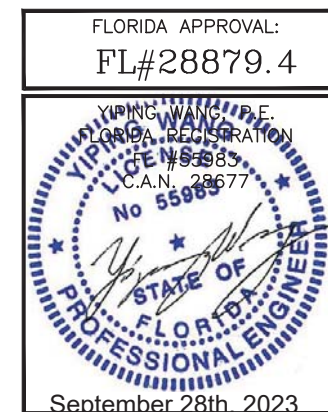


5 CANTILEVER HORIZONTAL
11 WATERPROOFING BY OTHERS
NOT COVERED BY THIS APPROVAL



3A HORIZONTAL BUTT GLAZED
11

SAFETY REQUIREMENT TO BE
CHECKED BY DESIGNATED
ENGINEER ON JOB



REVISIONS		
NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

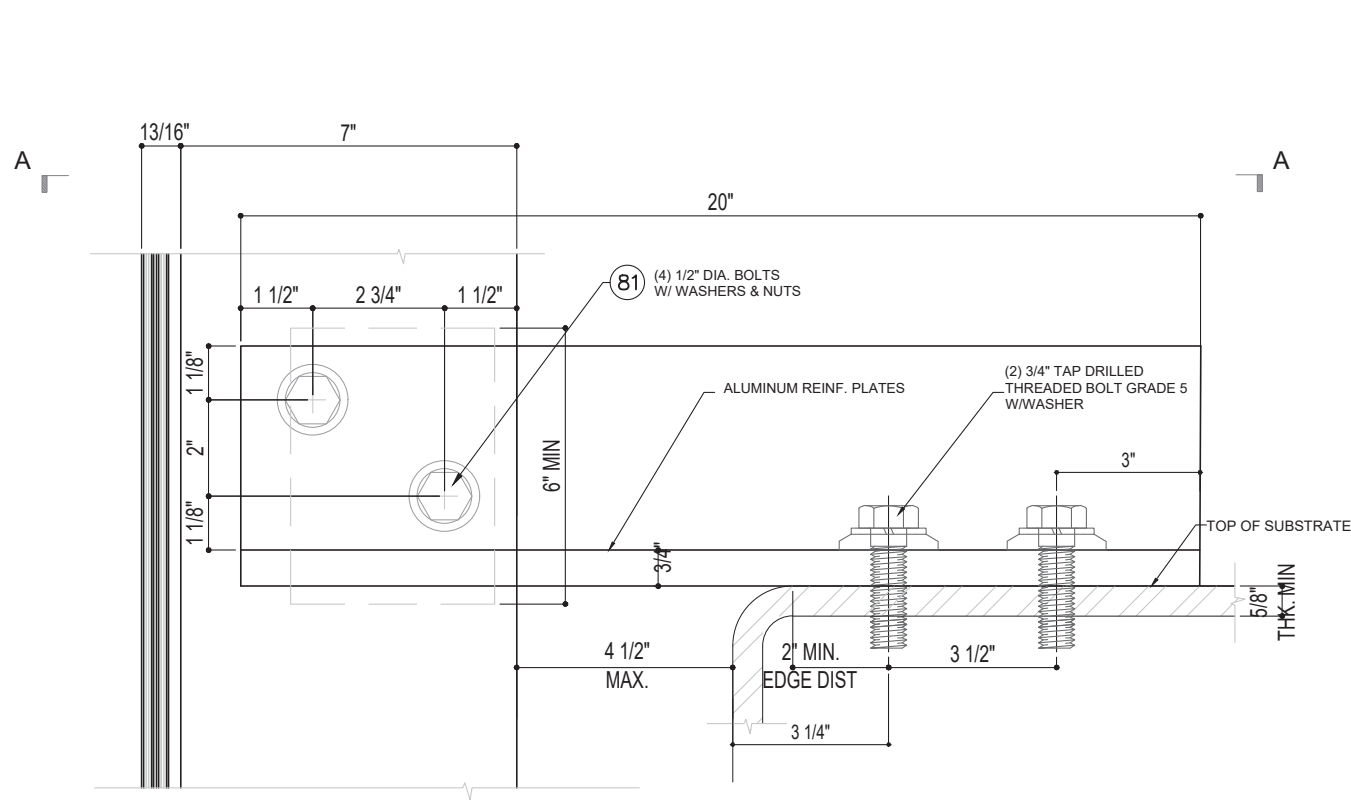
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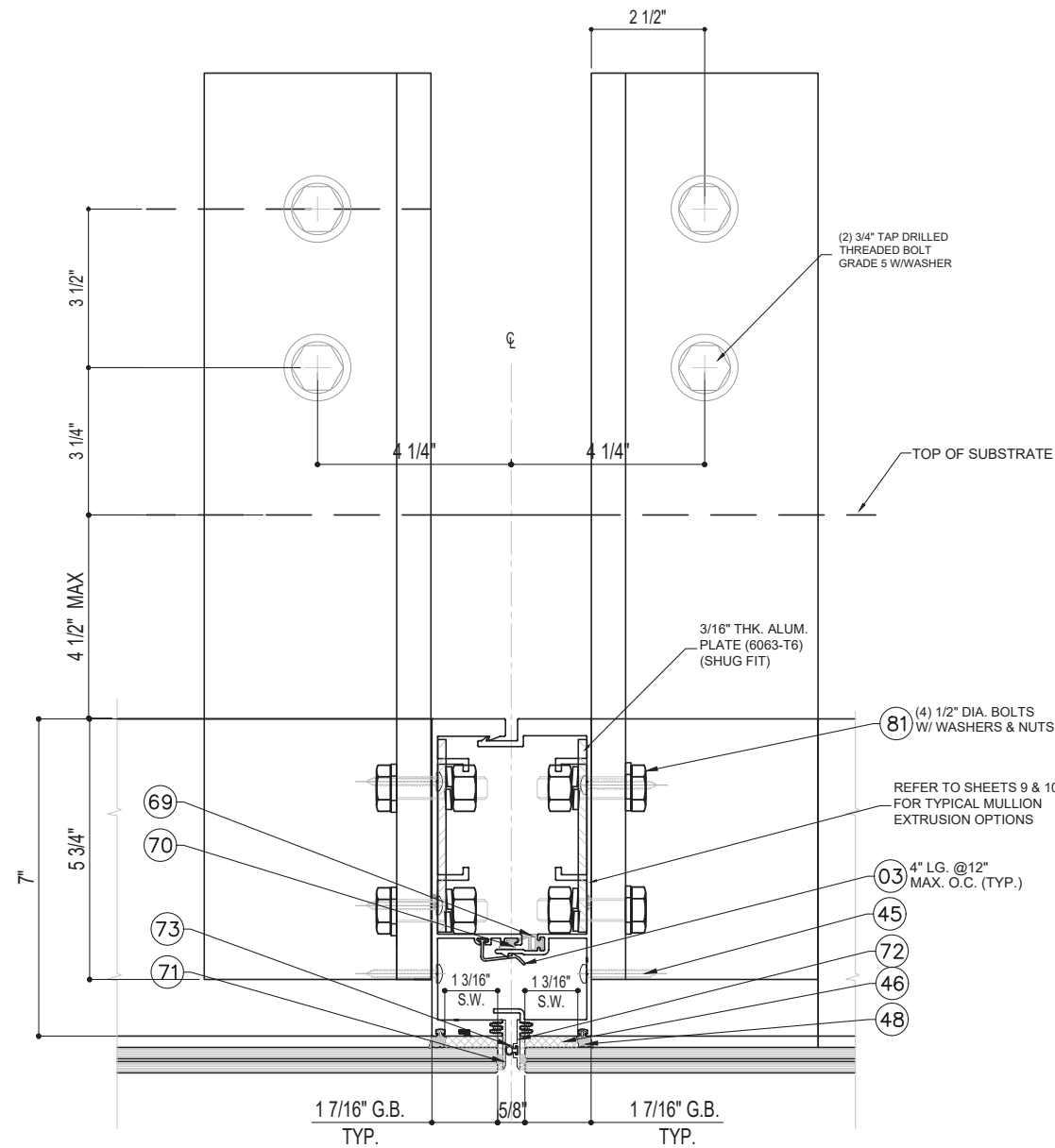
TECNOGLASS, LLC
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PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-07A
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13 ANCHOR DETAIL
11A SECTION

FOR ANCHOR INTO CONCRETE SLAB TO
BE CHECKED BY DESIGNATED
ENGINEERING ON JOB BASES.



A-A SECCION

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55985
C.A.N. 28677

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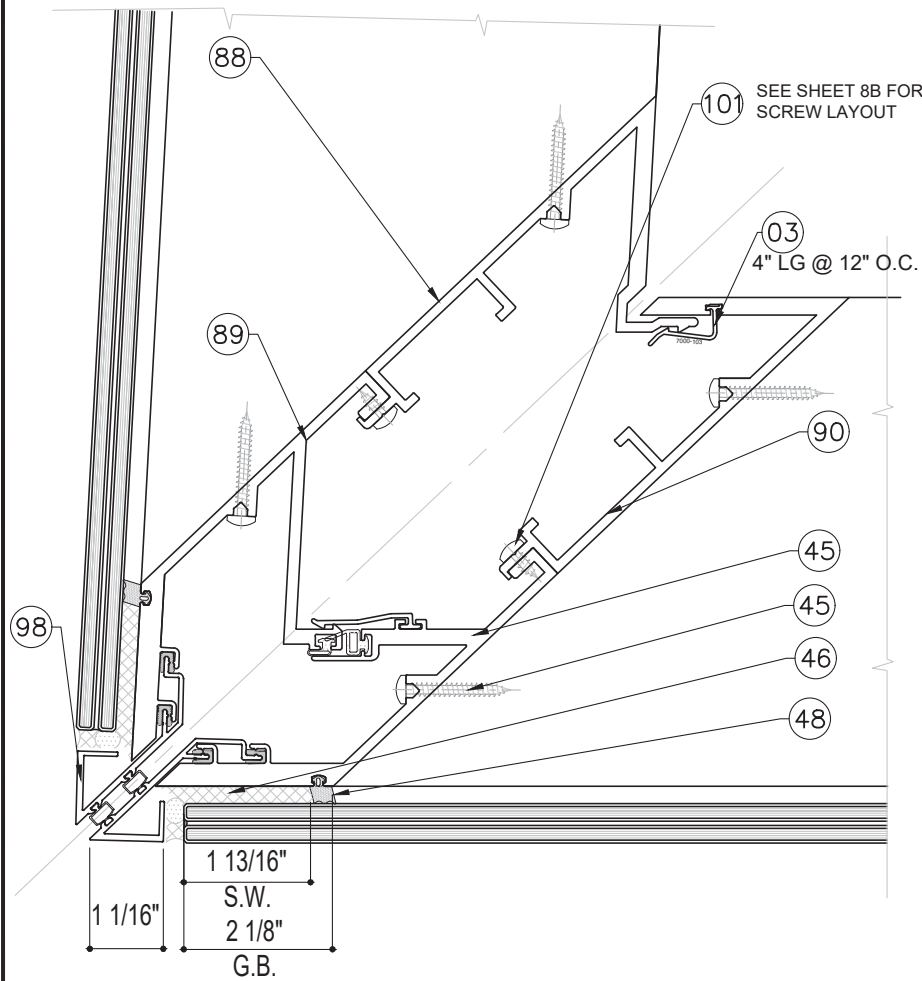
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PROJECT	MCY19-010
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11A OF 38	



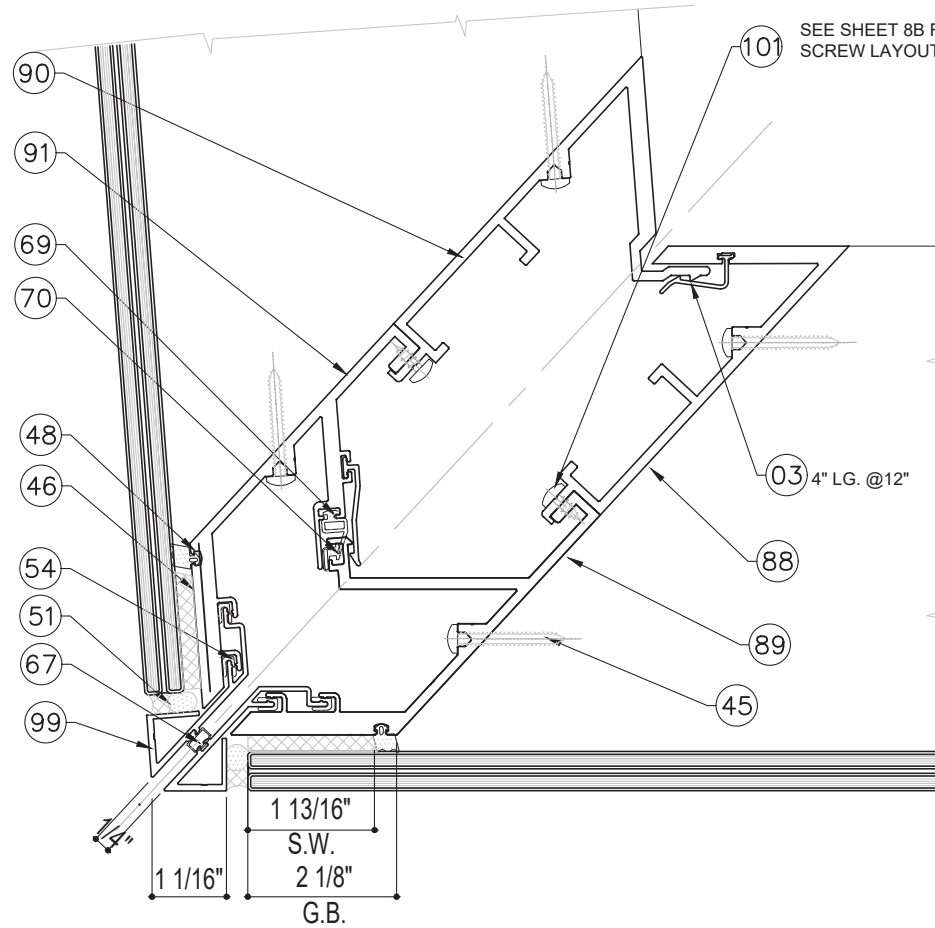
6A INSIDE CORNER MULLION

September 28th, 2023

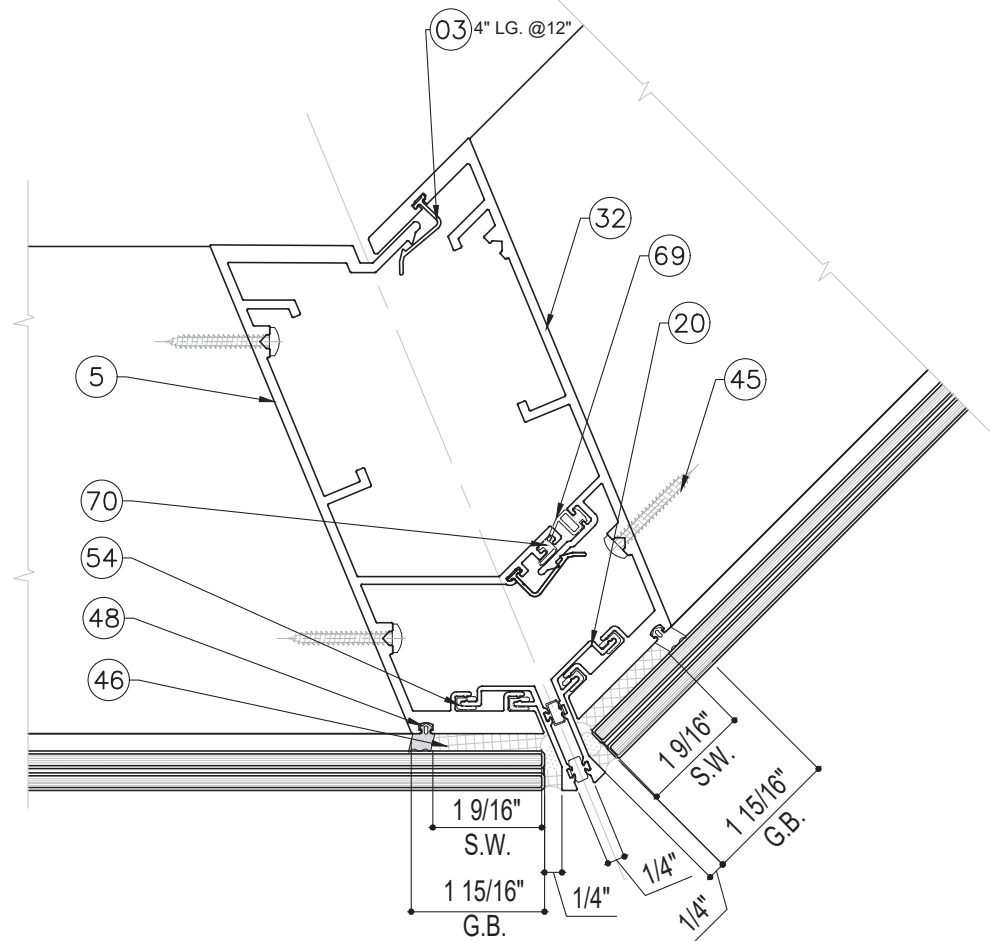
12 OF 38



6A
12A OUTSIDE CORNER MULLION (86.9°)



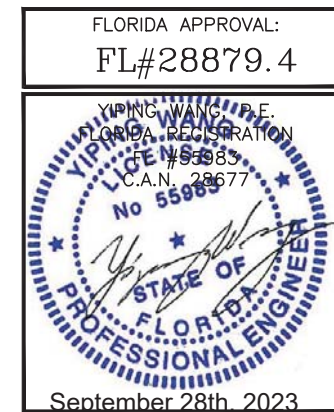
6B
12A OUTSIDE CORNER MULLION (94.40°)



6C
12A OUTSIDE CORNER MULLION (132°)

NOTE:
REFER TO SHEETS 8B FOR TYP.
CORNER MULLION SPANS, AND
ALLOWED DESIGN LOAD

NOTE:
REFER TO SHEETS 8C FOR TYP.
CORNER MULLION SPANS, AND
ALLOWED DESIGN LOAD



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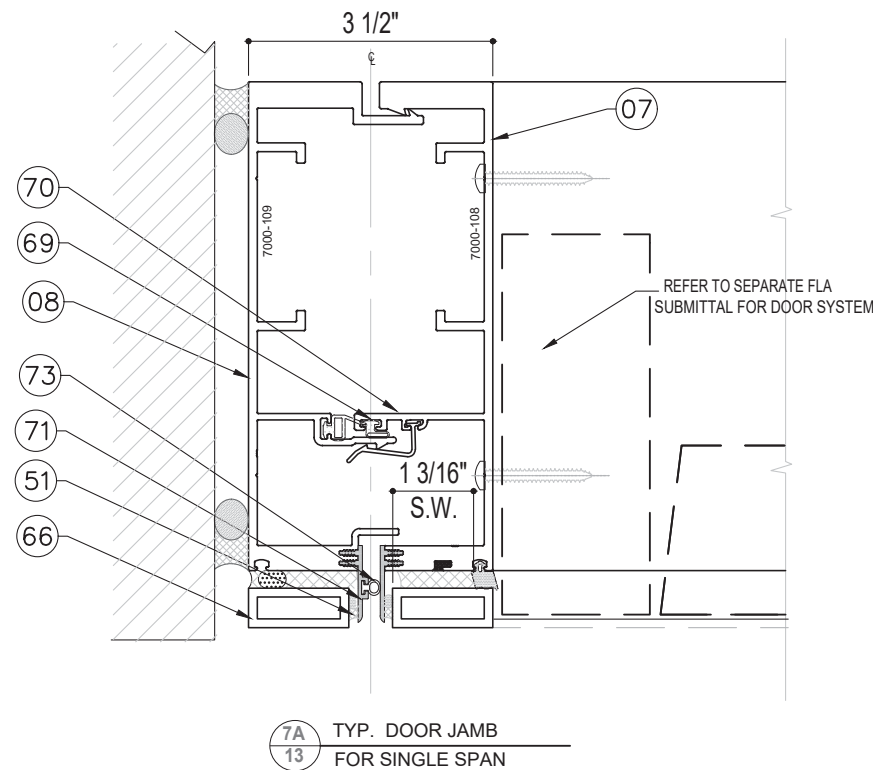
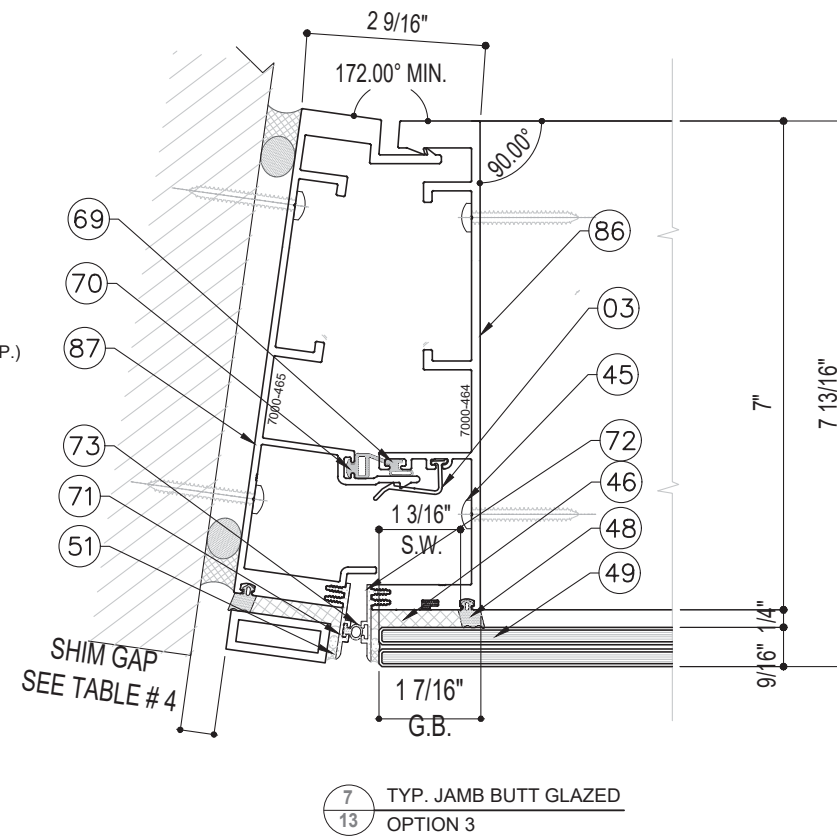
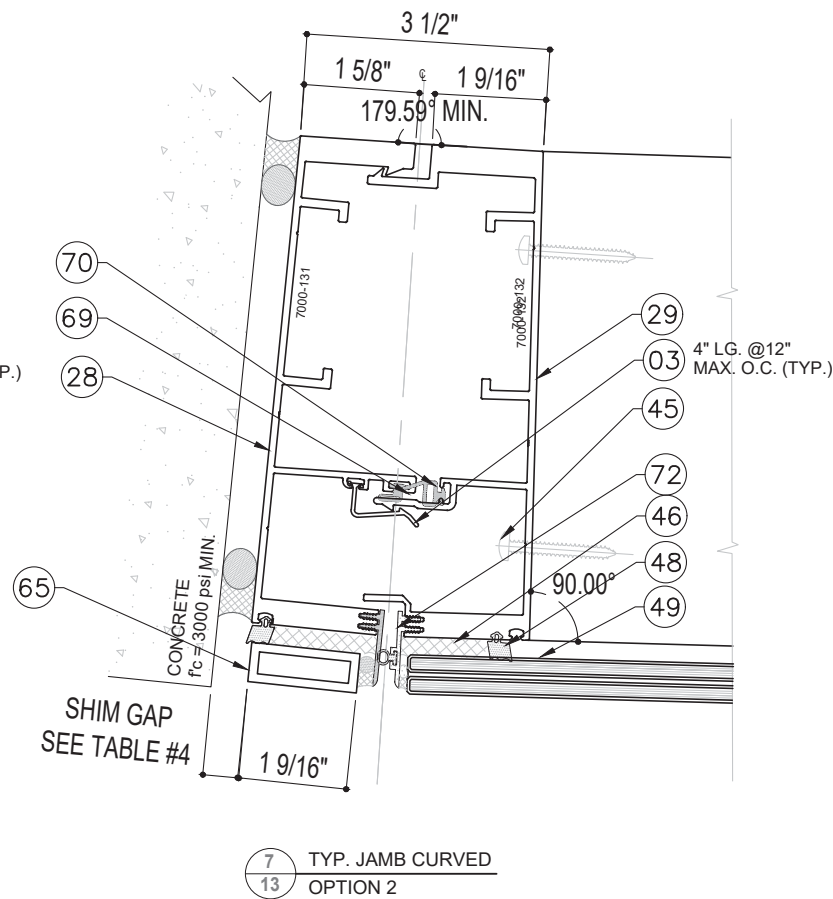
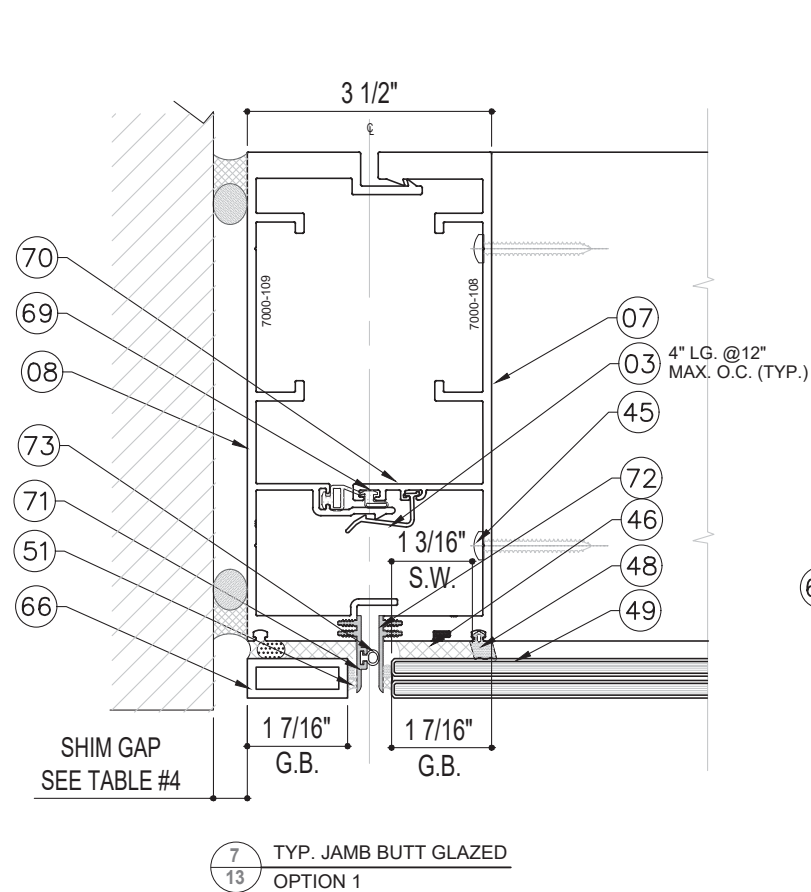
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DRAWING NO.
AD19-07A

12A OF 38



NOTE:
REFER TO SHEETS 6, 7 & 8A FOR TYP.
JAMB SPANS, REINFORCEMENT
OPTION AND DESIGN LOAD

TABLE #4: MIN/MAX SHIM GAP

JAMB SPAN*	MIN. GAP	MAX. GAP
≤ 120"	0.38"	0.75"
132"	0.42"	0.75"
144"	0.46"	0.75"
156"	0.5"	0.75"
168"	0.54"	0.75"
180"	0.58"	0.75"
192"	0.62"	0.75"
204"	0.65"	0.75"
208"	0.67"	0.75"

*JAMB SPAN: - ANCHOR ϕ TO ϕ

FLORIDA APPROVAL:
FL#28879.4

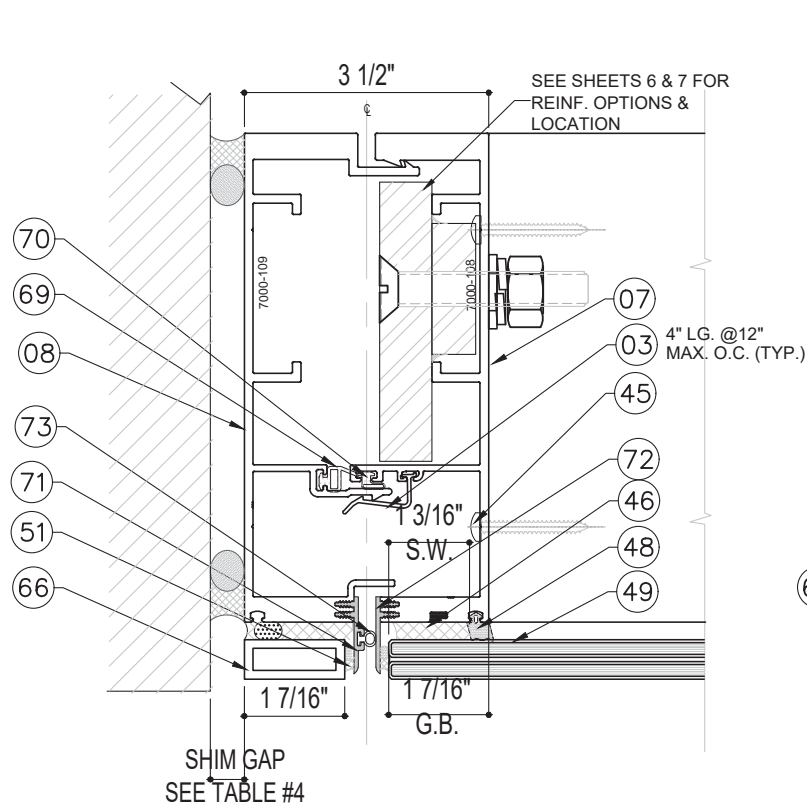
YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55985
C.A.N. 28677
September 28th, 2023

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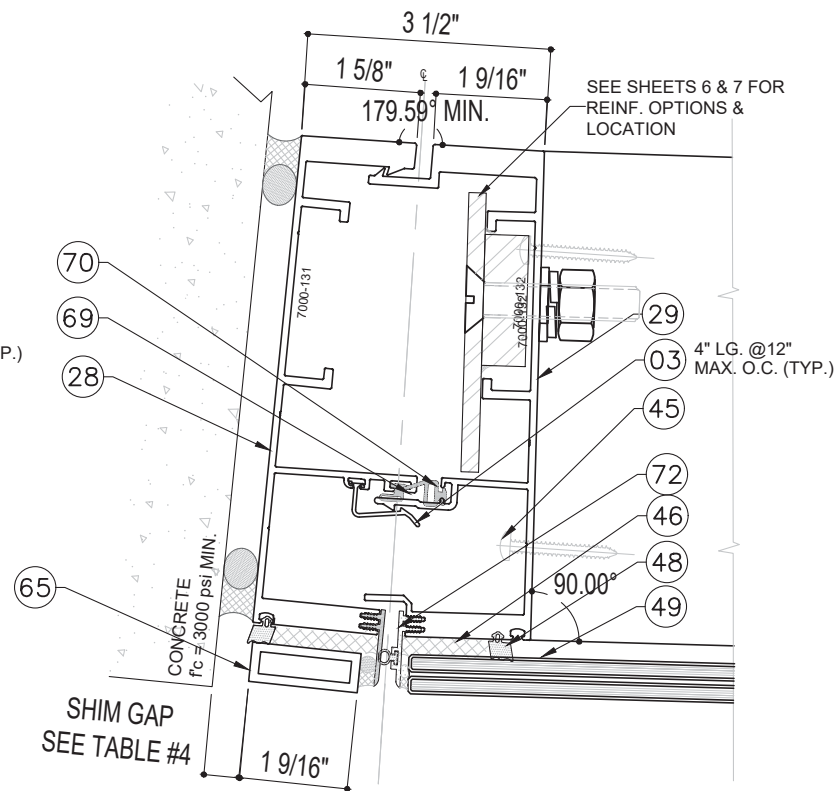
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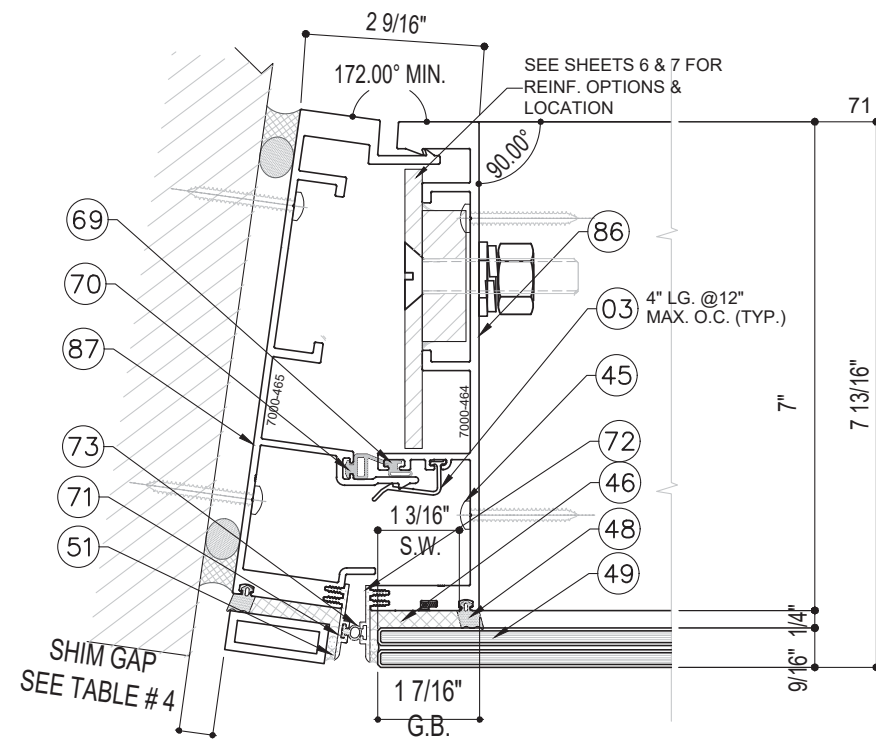
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DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-07A
13 OF 38	



8
14 TYP. JAMB BUTT GLAZED W/ REINF.
OPTION 1



8
14 TYP. JAMB CURVED W/ REINF.
OPTION 2



8
14 TYP. JAMB BUTT GLAZED W/ REINF.
OPTION 3

NOTE:
REFER TO SHEETS 6, 7 & 8A FOR TYP.
JAMB SPANS, REINFORCEMENT
AND DESIGN LOAD REQUIRED

TABLE #4: MIN/MAX SHIM GAP

JAMB SPAN*	MIN. GAP	MAX. GAP
≤ 120"	0.38"	0.75"
132"	0.42"	0.75"
144"	0.46"	0.75"
156"	0.5"	0.75"
168"	0.54"	0.75"
180"	0.58"	0.75"
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*JAMB SPAN: - ANCHOR ϕ TO ϕ

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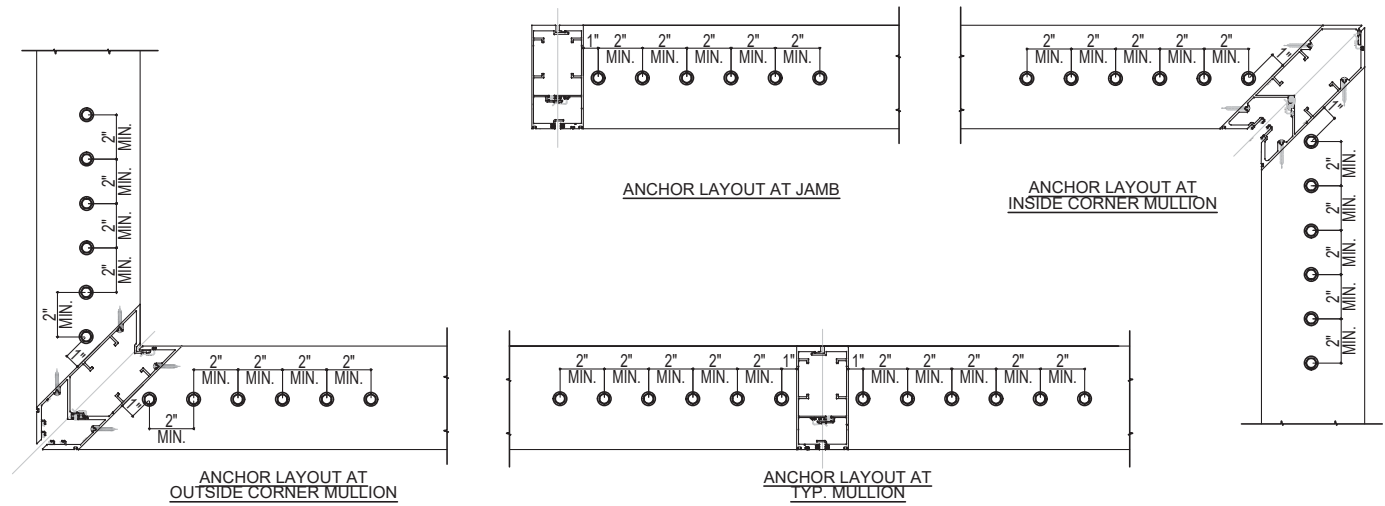
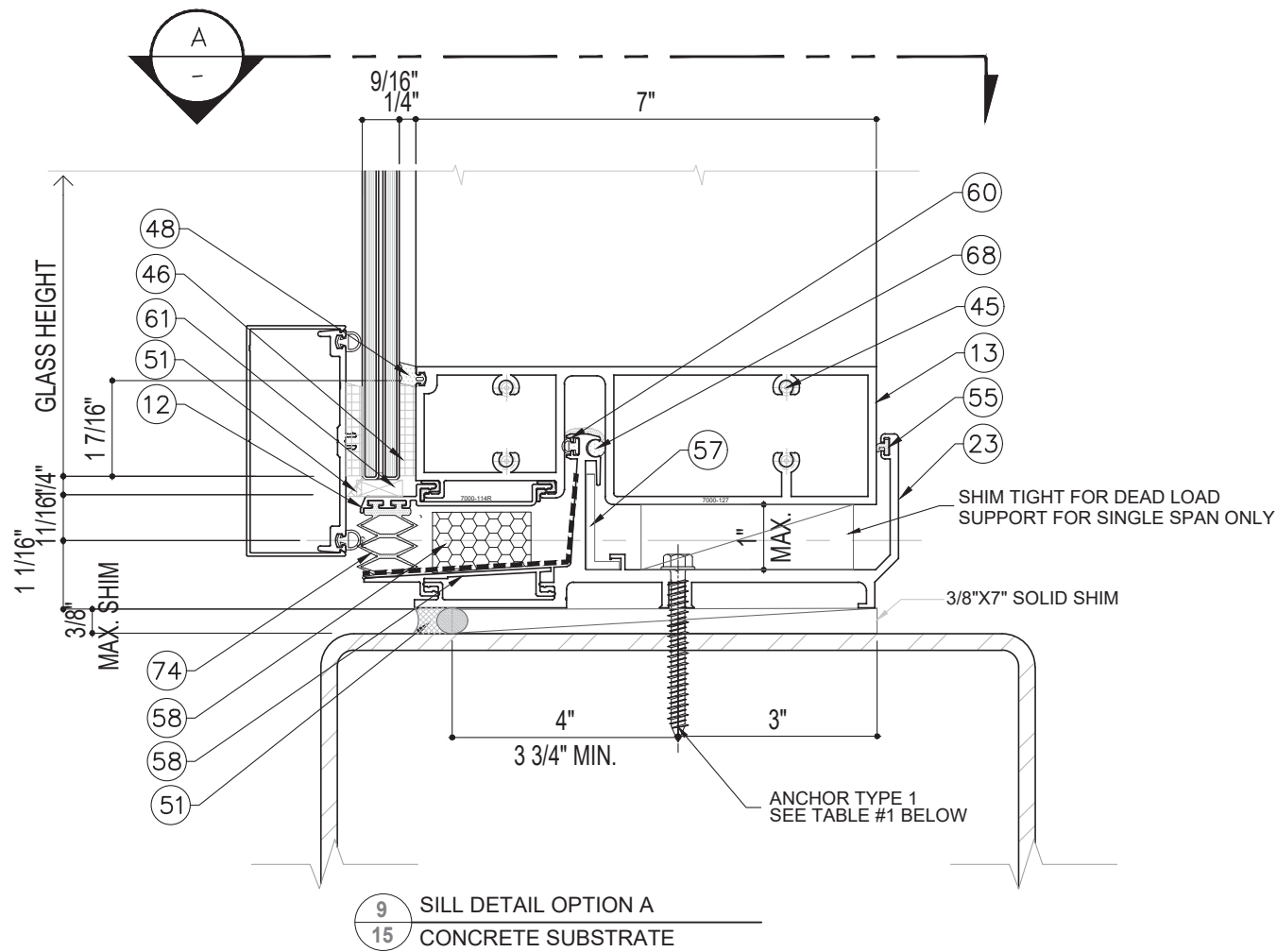
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NO	DATE	DESCRIPTION
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DATE	SCALE	DRAWN	PROJECT
09.19.2023	AS SHOWN	James	MCY19-010

DRAWING NO.
AD19-07A

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SECTION A-A

	MAX. DESIGN LOAD (PSF)					
	SPAN (in)	MULLION SPACING (M.S.)				
		36 (in)	42 (in)	48 (in)	54 (in)	60 (in)
AO #1 (4200 lbs)	120	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	140
	138	140	140	140	140	140
	144	140	140	140	140	140
AO #2 (3500lbs)	120	140	140	140	140	140
	126	140	140	140	140	133
	132	140	140	140	140	127
	138	140	140	140	135	122
	144	140	140	140	130	117
AO #3 (2800 lbs)	120	140	140	140	124	112
	126	140	140	133	119	107
	132	140	140	127	113	102
	138	140	139	122	108	97
	144	140	133	117	104	93

ANCHOR TYPE 1 :5/16" SELF DRILLING SCREWS
(GRADE 5 Fu=120ksi Fy=92ksi)
INTO METAL STRUCTURES
STEEL : 1/4" MIN. THICKNESS (Fy= 36ksi MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

TABLE #1: NO. OF ANCHOR TYPE 1-SILL ANCHOR.

ANCHOR OPTIONS (Rmax. LBS)	OPTION A
	NO. OF ANCHORS @EA.SIDE OF MULL.
	ANCHOR TYPE 1
A0#1 (4200)	6
A0#2 (3500)	5
A0#3 (2800)	4

FOR A0#1, A0#2 & A0#3 ANCHOR CAPACITY VS. SPAN
AND MULLION SPACING SEE CHART ON THE LEFT.

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
#93985
C.A.N. 28677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

September 28th, 2023

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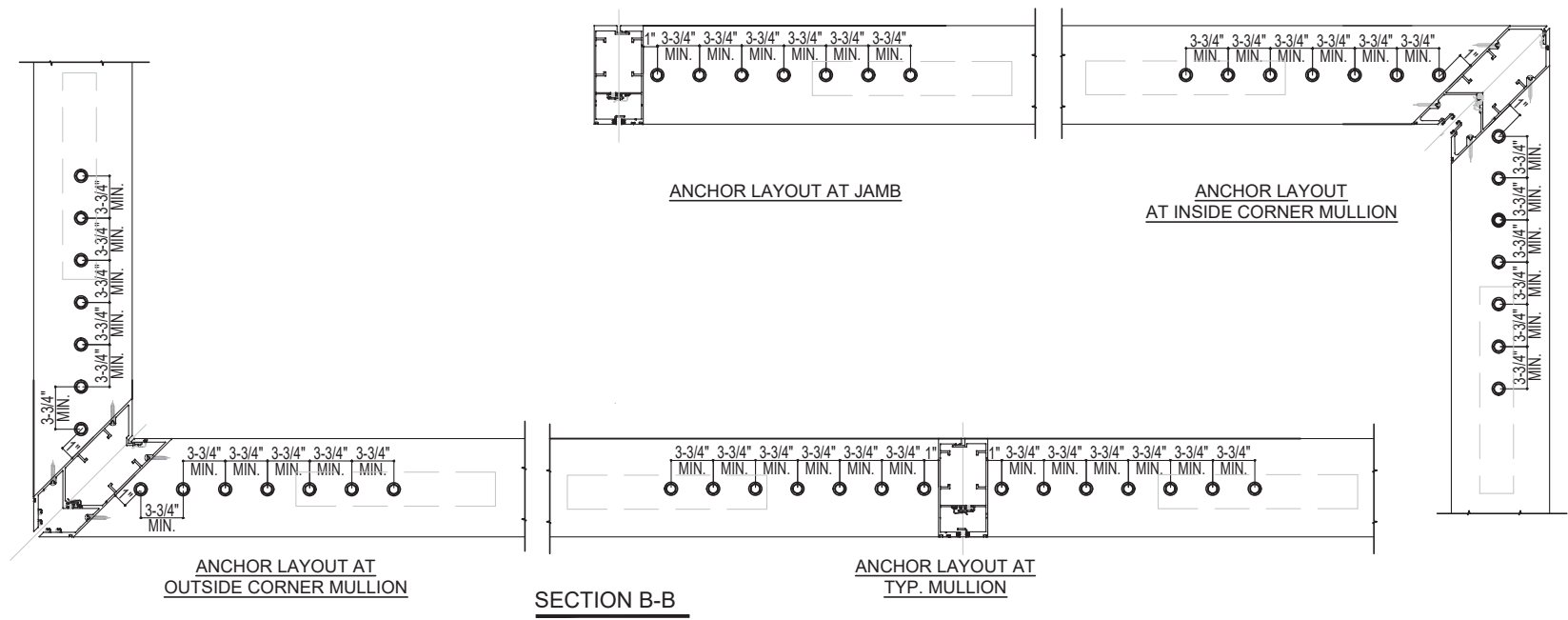
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DRAWING NO.
AD19-07A

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	MAX. DESIGN LOAD (PSF)					
	SPAN (in)	MULLION SPACING (M.S.)				
		36 (in)	42 (in)	48 (in)	54 (in)	60 (in)
AO #1 (4200 lbs)	120	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	140
	138	140	140	140	140	140
	144	140	140	140	140	140
AO #2 (3500lbs)	120	140	140	140	140	140
	126	140	140	140	140	133
	132	140	140	140	140	127
	138	140	140	140	135	122
	144	140	140	140	130	117
AO #3 (2800 lbs)	120	140	140	140	124	112
	126	140	140	133	119	107
	132	140	140	127	113	102
	138	140	139	122	108	97
	144	140	133	117	104	93
AO #4 (2300 lbs)	120	140	131	115	102	92
	126	140	125	110	97	88
	132	139	119	105	93	84
	138	133	114	100	89	80
	128	128	110	96	85	77

ANCHOR OPTIONS (Rmax. LBS)	OPTION B	
	NO. OF ANCHORS @EA.SIDE OF MULL.	
	ANCHOR TYPE 2	ANCHOR TYPE 3
AO#1 (4200)	7	7
AO#2 (3500)	6	5
AO#3 (2800)	5	4
AO#4 (2300)	4	4

FOR AO#1, AO#2, AO#3 & AO#4 ANCHOR CAPACITY
VS. SPAN AND MULLION SPACING SEE CHART ON THE LEFT.

REVISIONS	
NO.	DATE DESCRIPTION
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MCY ENGINEERING, INC.
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12781 MIARAMAR PARKWAY #301 P: 305.271.0117
MIRAMAR, FL 33027 F: 305.588.5224

www.MCYEngineering.com MCY@mcyengineering.com

SERIES 7000 ALUMINUM CURTAIN WALL LAM. GLASS - LMI & SMI

TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A

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FLORIDA APPROVAL:

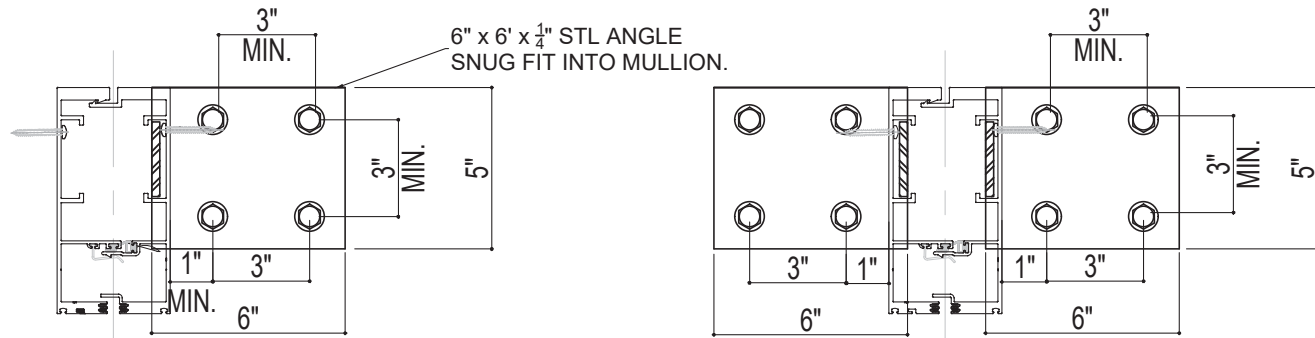
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
#99989
C.A.N. 28677

No 55989

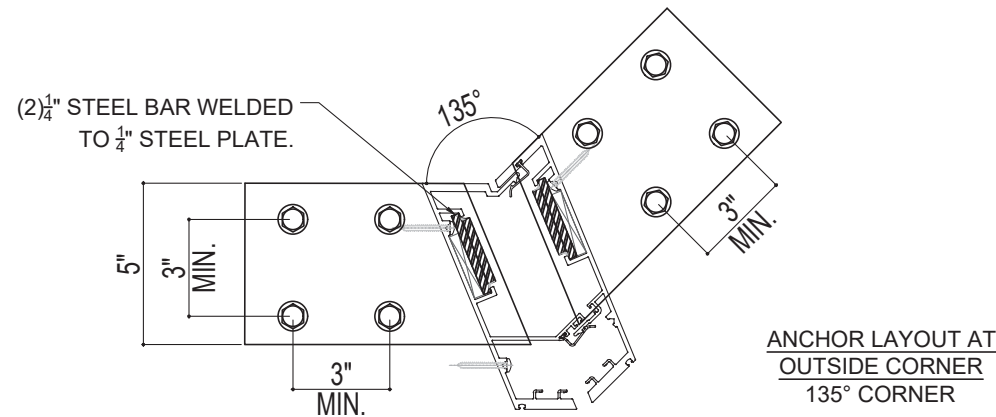
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

September 28th, 2023

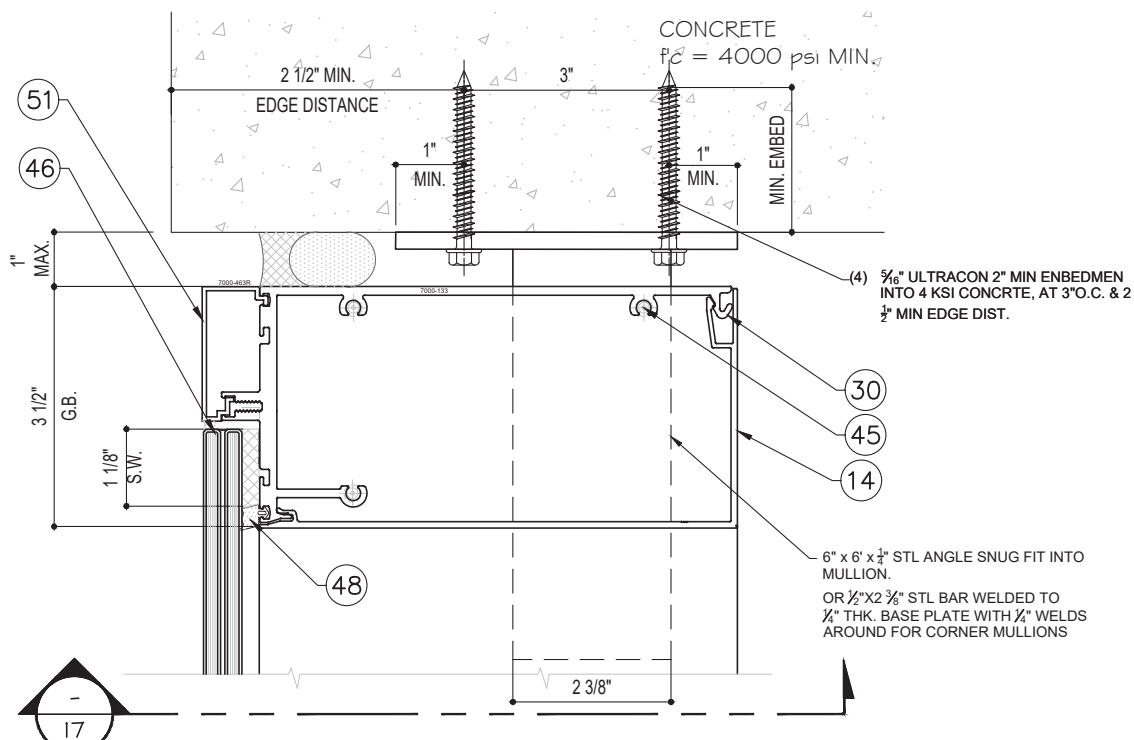


ANCHOR LAYOUT AT TYP. JAMB

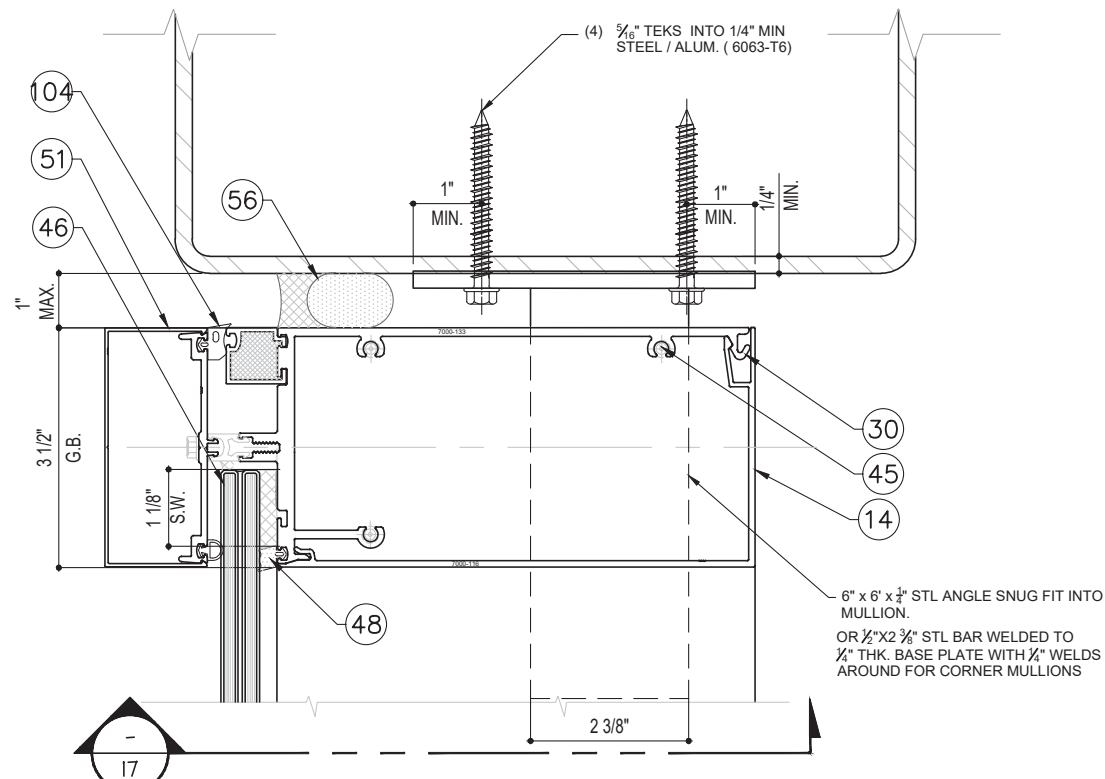
ANCHOR LAYOUT AT TYP. MULLION



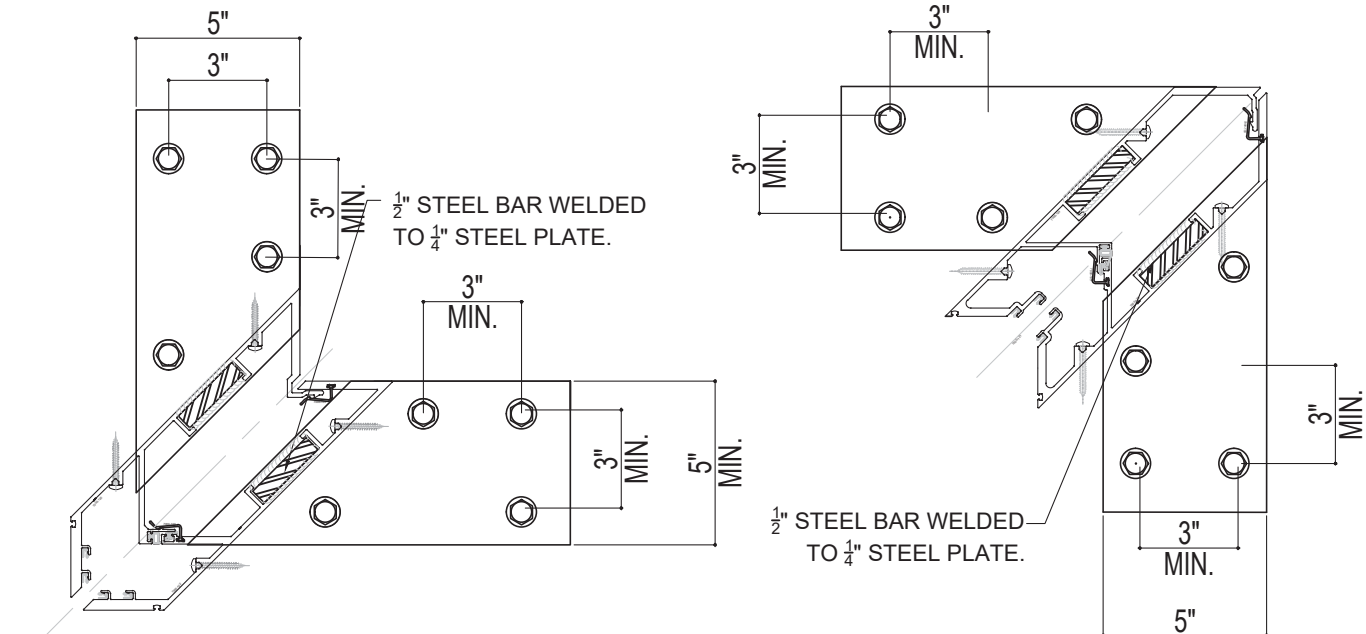
ANCHOR LAYOUT AT
OUTSIDE CORNER
135° CORNER



HEAD DETAIL OPTION A

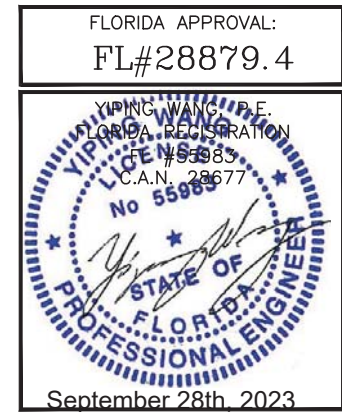


HEAD DETAIL OPTION B



ANCHOR LAYOUT AT OUTSIDE CORNER
86.90°-90°-94.4° CORNER

ANCHOR LAYOUT AT
INSIDE CORNER



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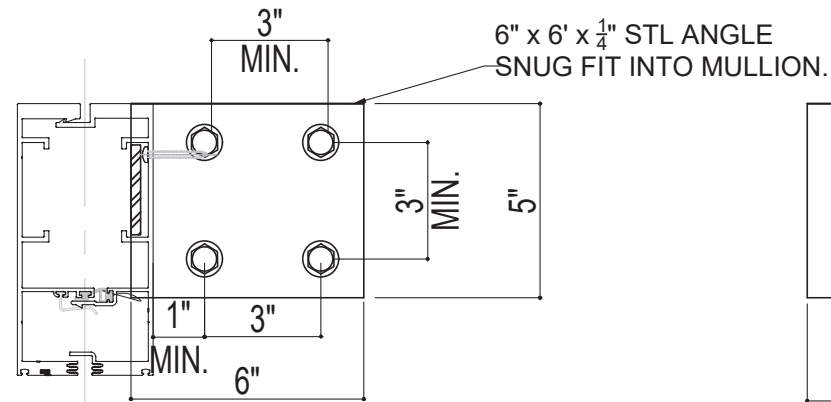
www.MCYEngineering.com MCY@mcyengineering.com

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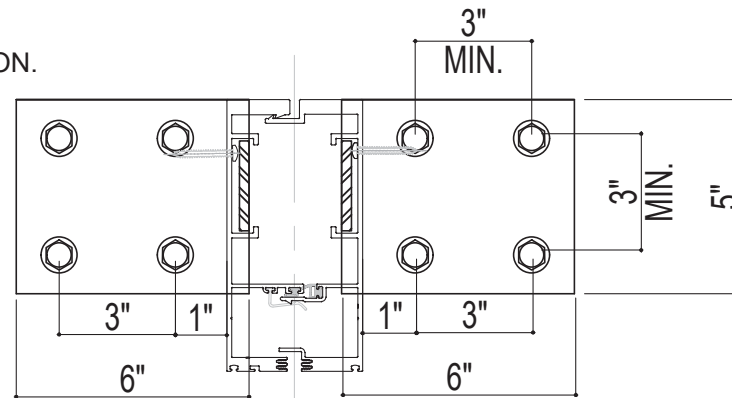
TECNOGLASS, LLC
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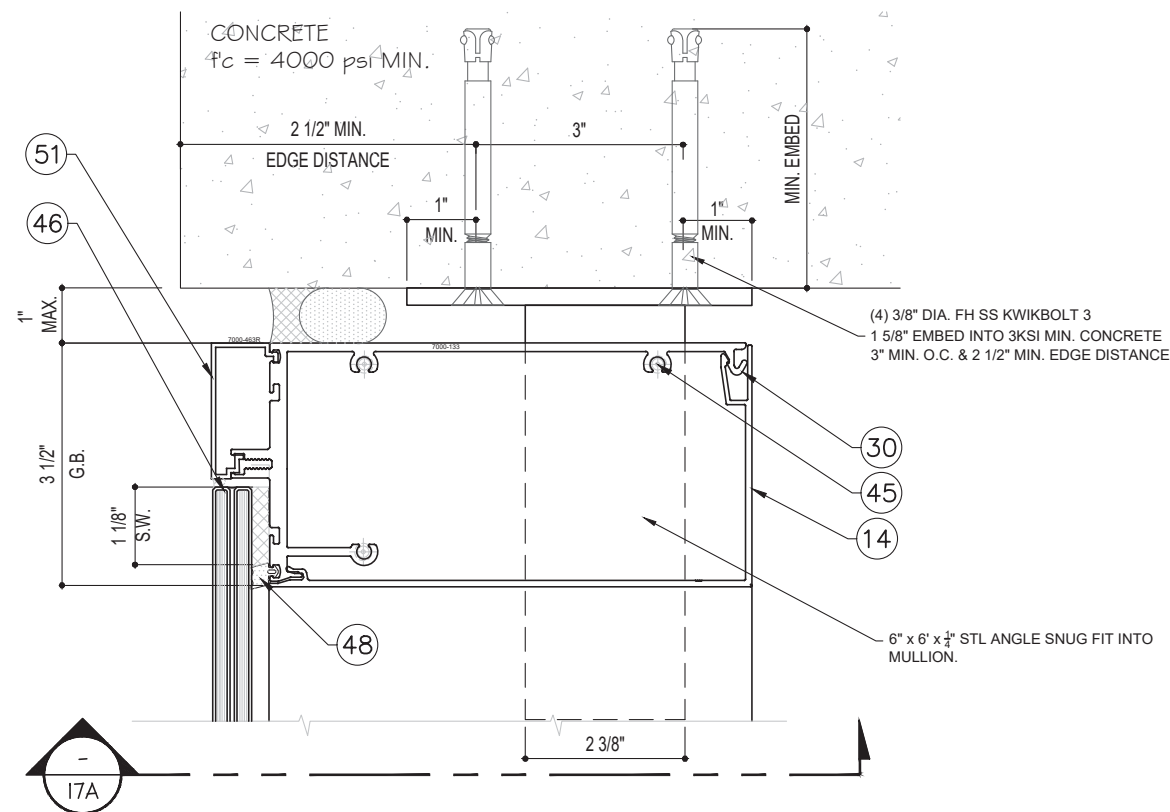
DATE	09.19.2023
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DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-07A
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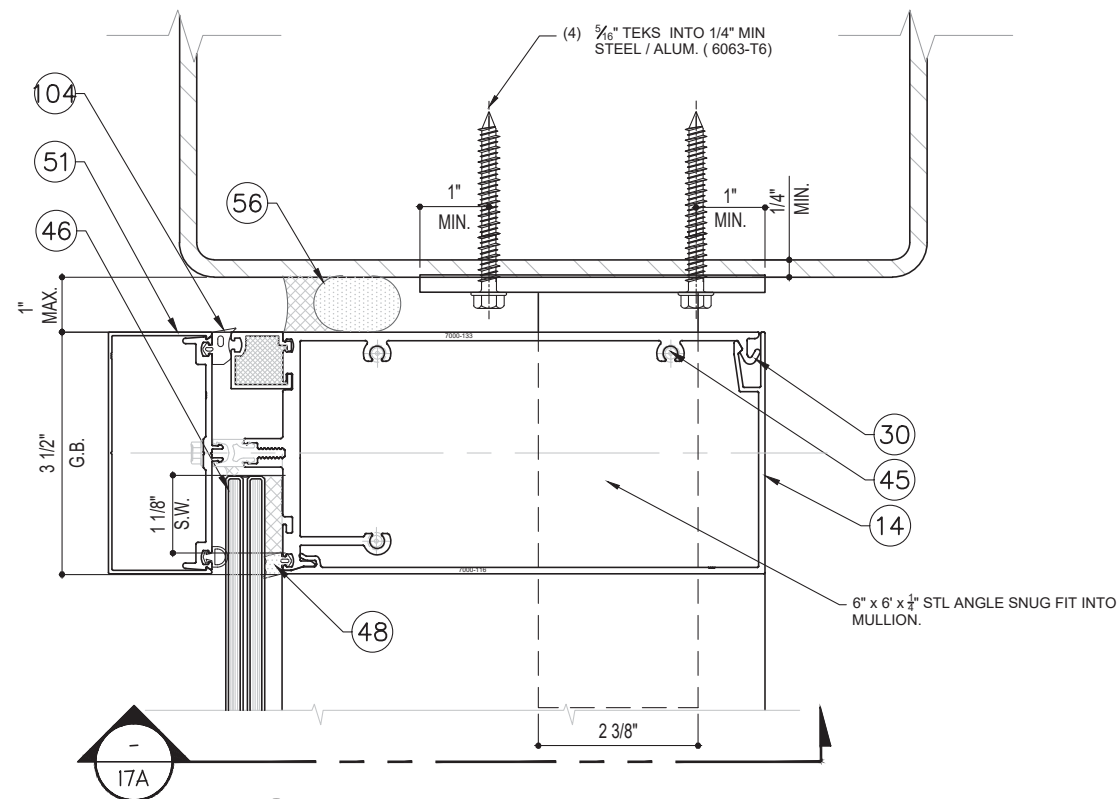
ANCHOR LAYOUT AT DOOR
JAMB OR JAMB



ANCHOR LAYOUT AT DOOR
JAMB OR MULLION



11 HEAD DETAIL OPTION
17A AT DOOR JAMB MULLION OR JAMB



11 HEAD DETAIL OPTION
17A AT DOOR JAMB MULLION OR JAMB

FLORIDA APPROVAL:
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YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55985
C.A.N. 28677

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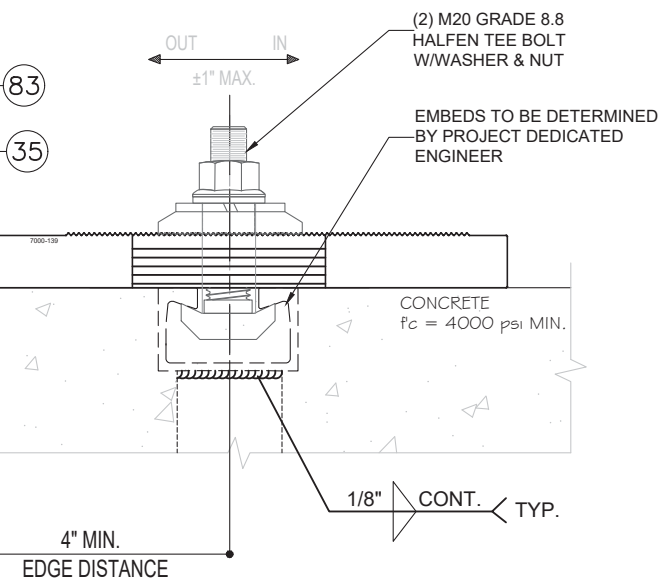
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DATE	09.19.2023
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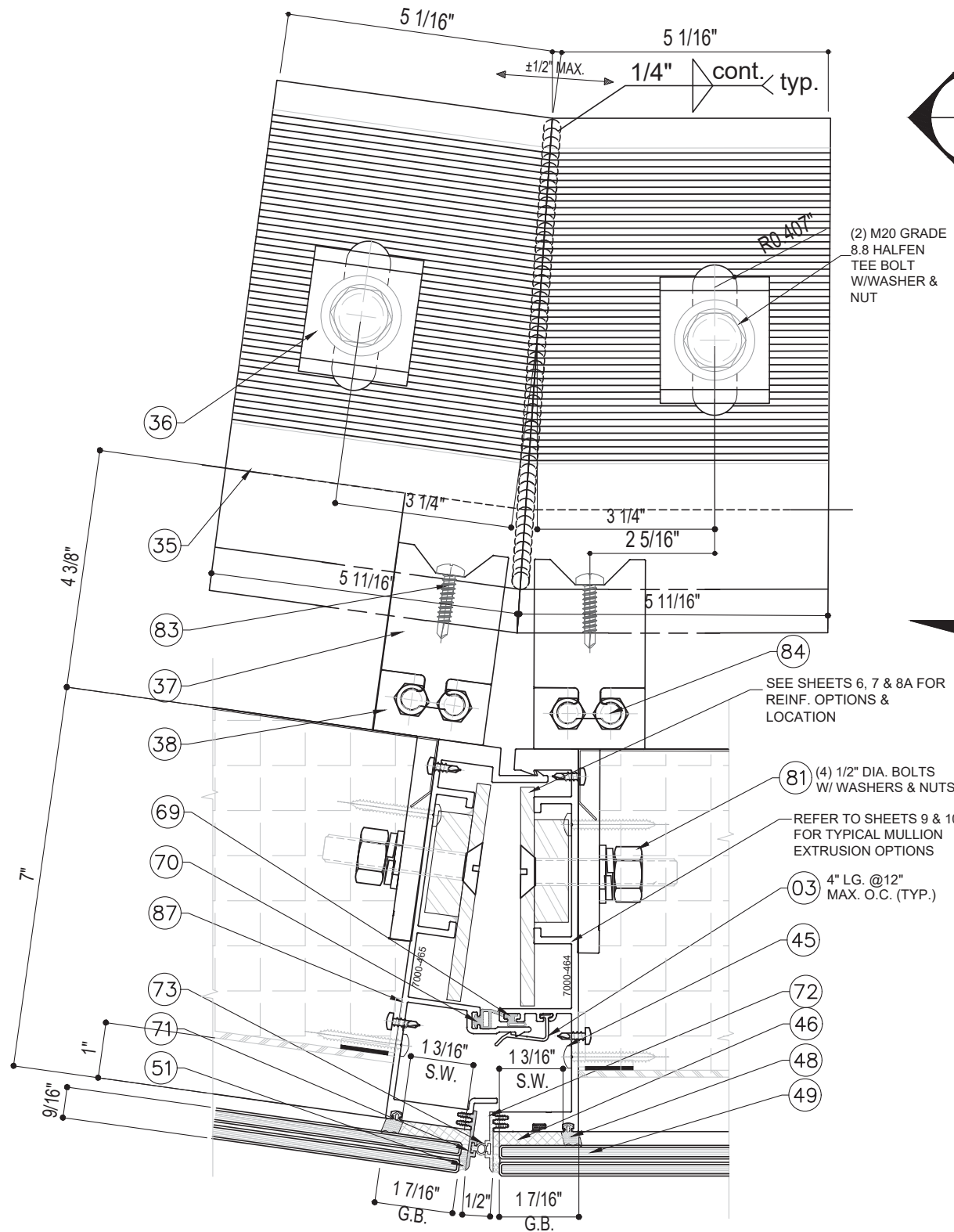
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AD19-07A

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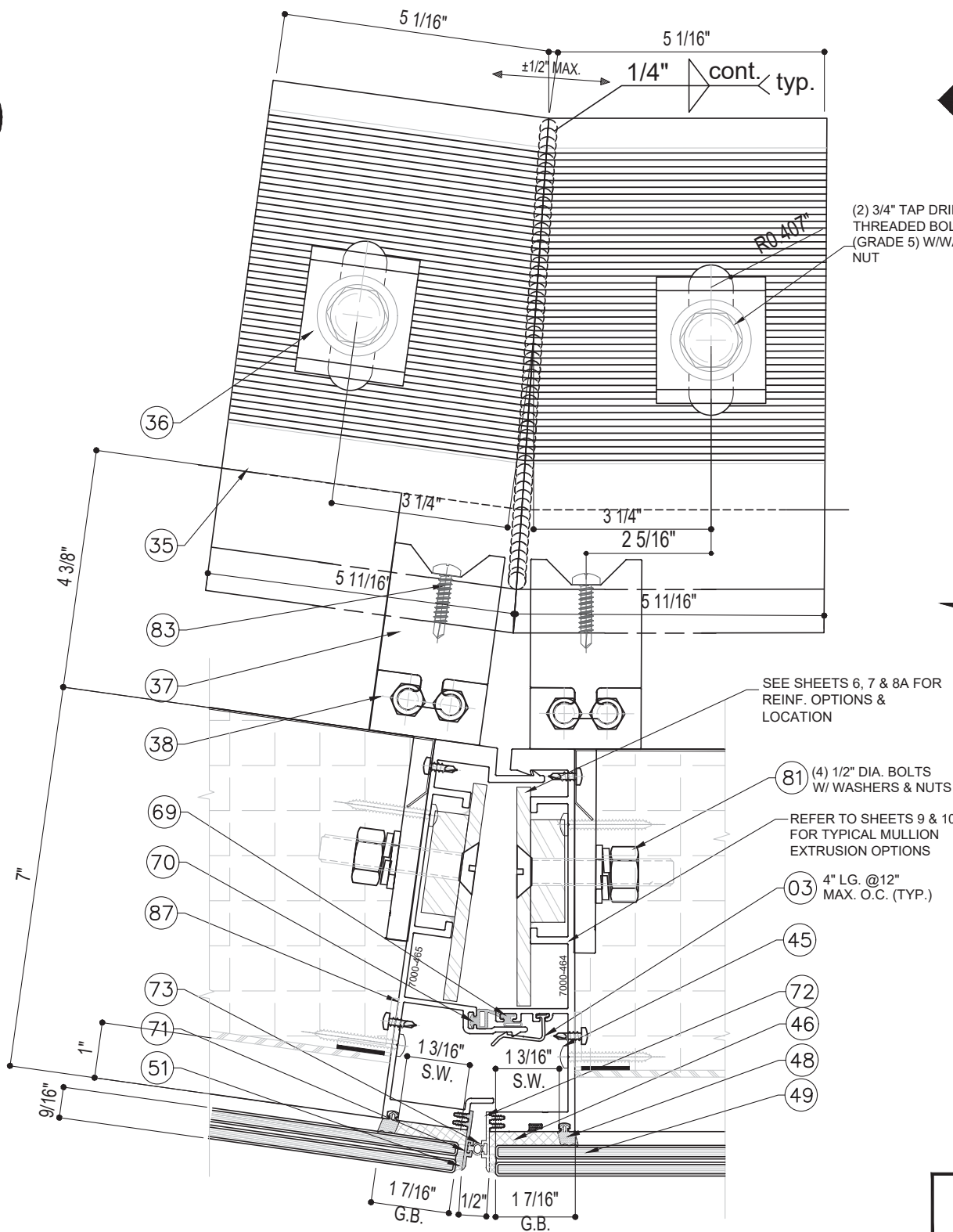
13 EXP. JOINT - ANCHOR TYPE A 18 SECTION

18 OF 38



12A
18A TYP. MULLION 172° - ANCHOR TYPE A

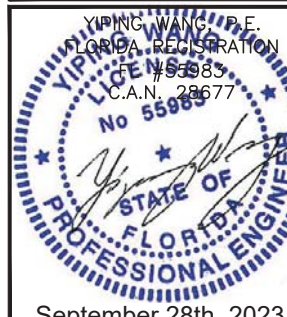
13
18



14A
18A TYP. MULLION 172° - ANCHOR TYPE B

15
19

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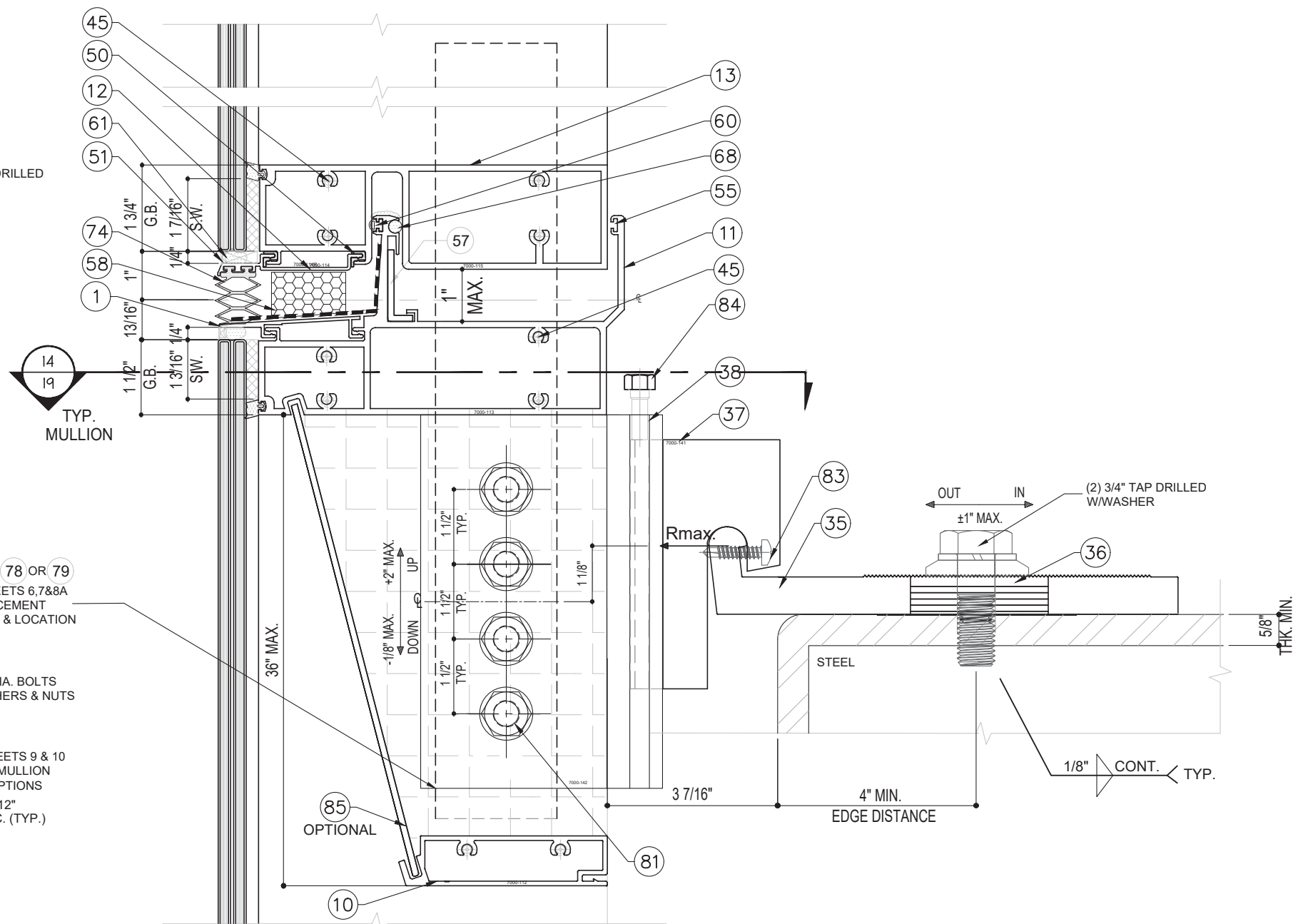
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TECNOGLASS, LLC
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DATE	09.19.2023
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PROJECT	MCY19-010
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14 TYP. MULLION - ANCHOR TYPE B
19

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FLORIDA REGISTRATION
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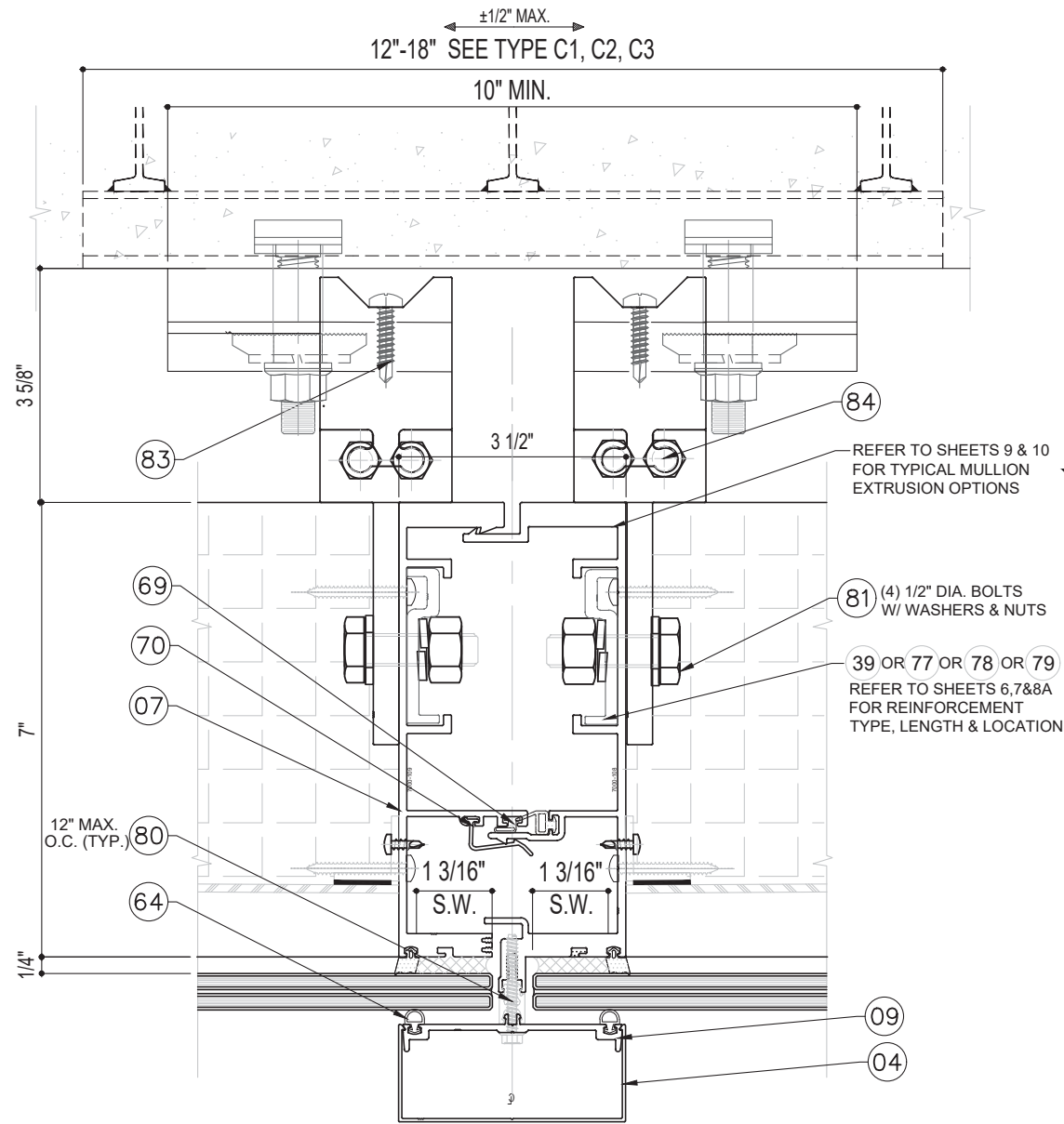
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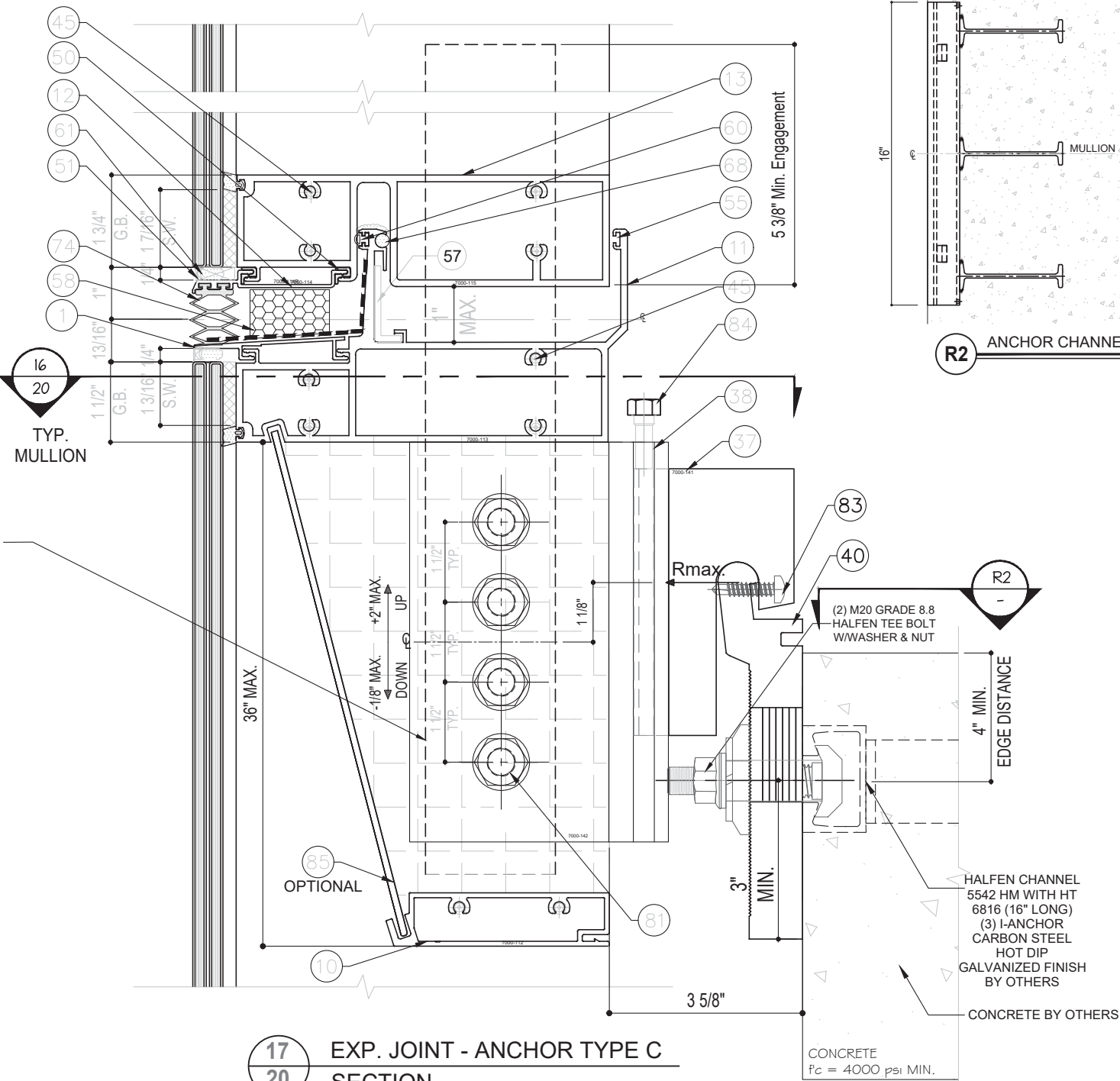
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AD19-07A

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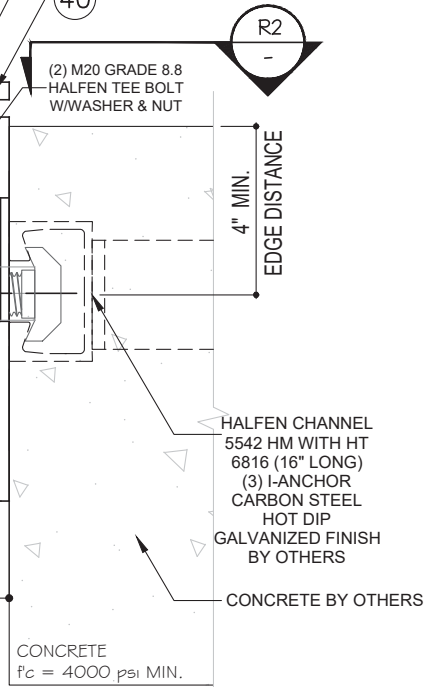
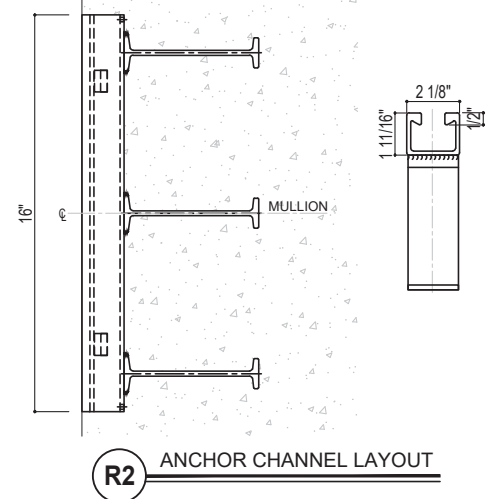


16
20 TYP. MULLION - ANCHOR TYPE C

MAX. MULL. SPACING	MAX. MULL. SPAN	MAX. DESIGN LOAD	MAX. END REACTION R _{max} .
5'-0"	10'-0"	75 PSF.	3750 LBS
5'-0"	12'-0"	60 PSF.	3600 LBS



17
20 EXP. JOINT - ANCHOR TYPE C SECTION



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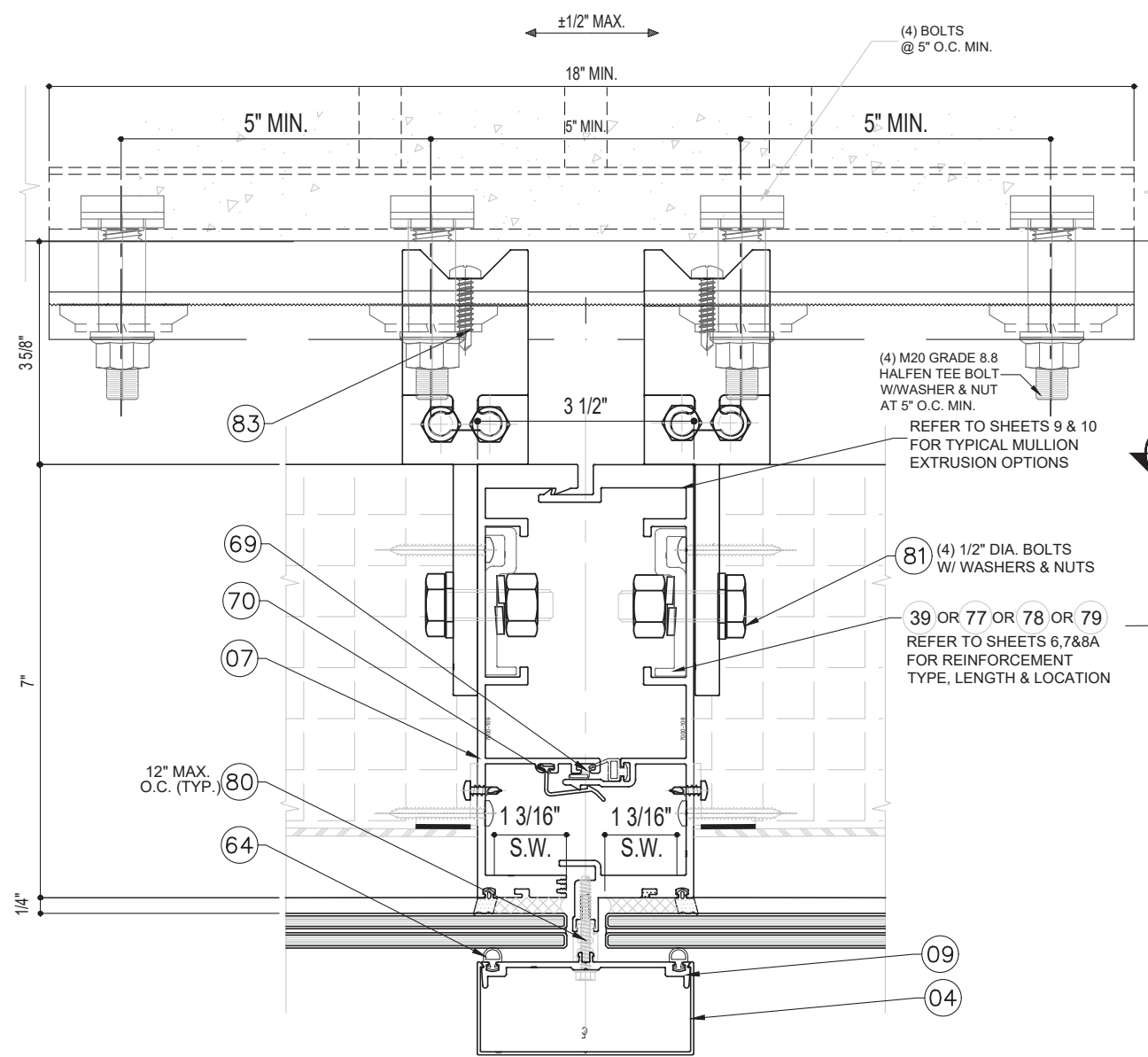
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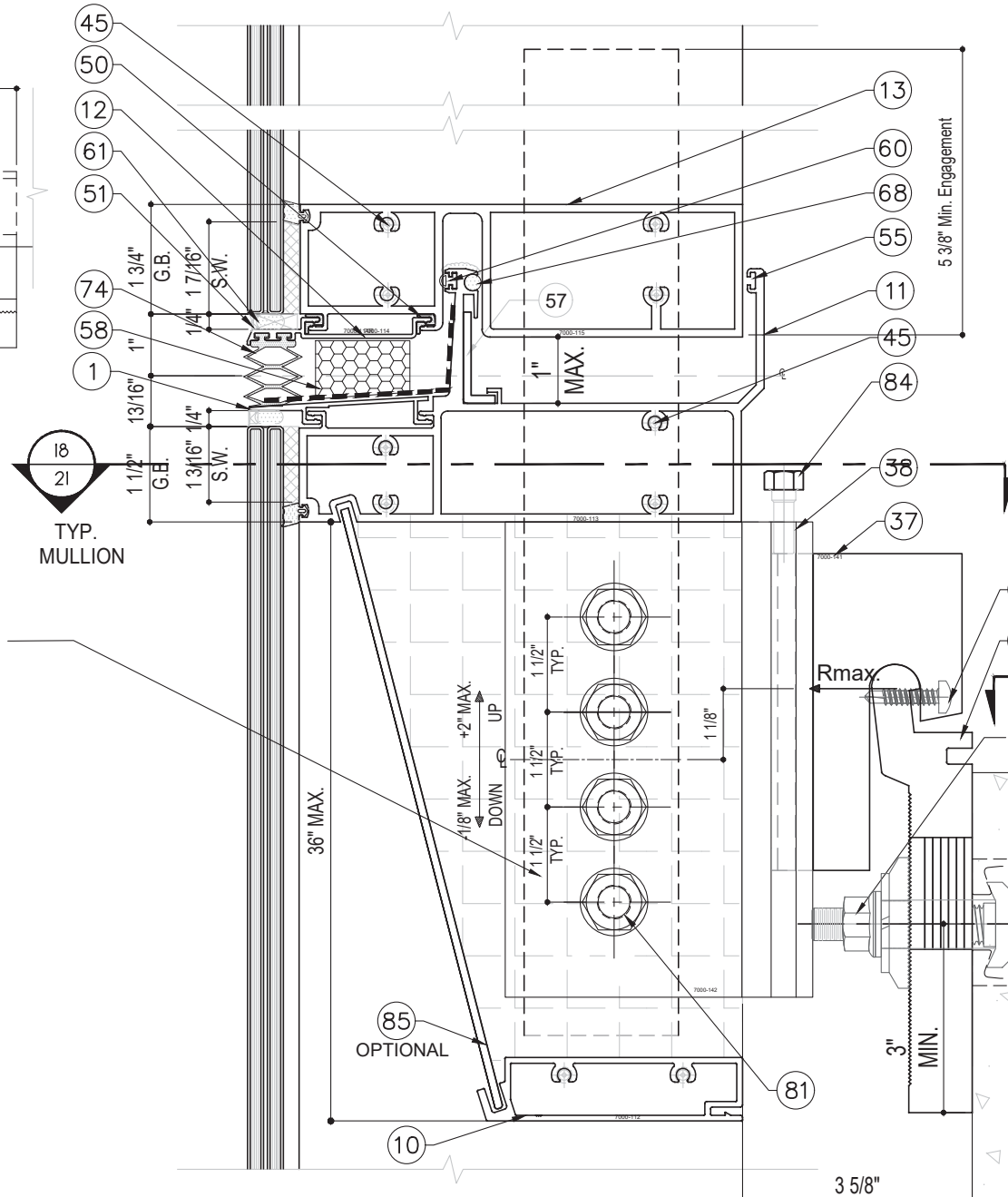
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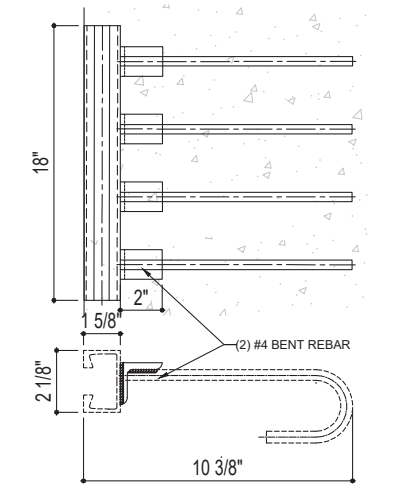
DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010
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20 OF 38	



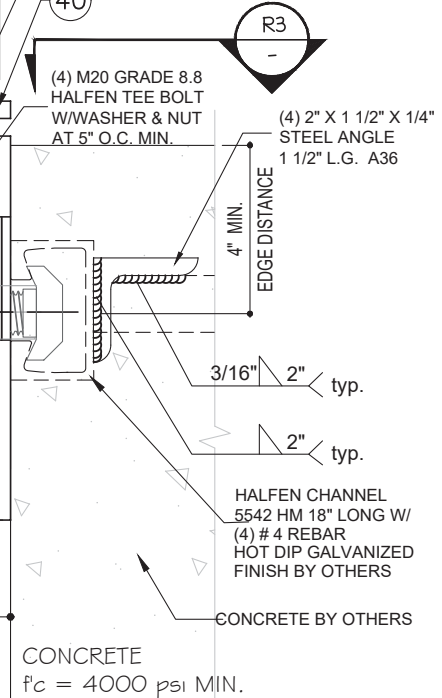
18
21 TYP. MULLION - ANCHOR TYPE C



19
21 EXP. JOINT - ANCHOR TYPE C SECTION



R3 ANCHOR CHANNEL & REBAR LAYOUT



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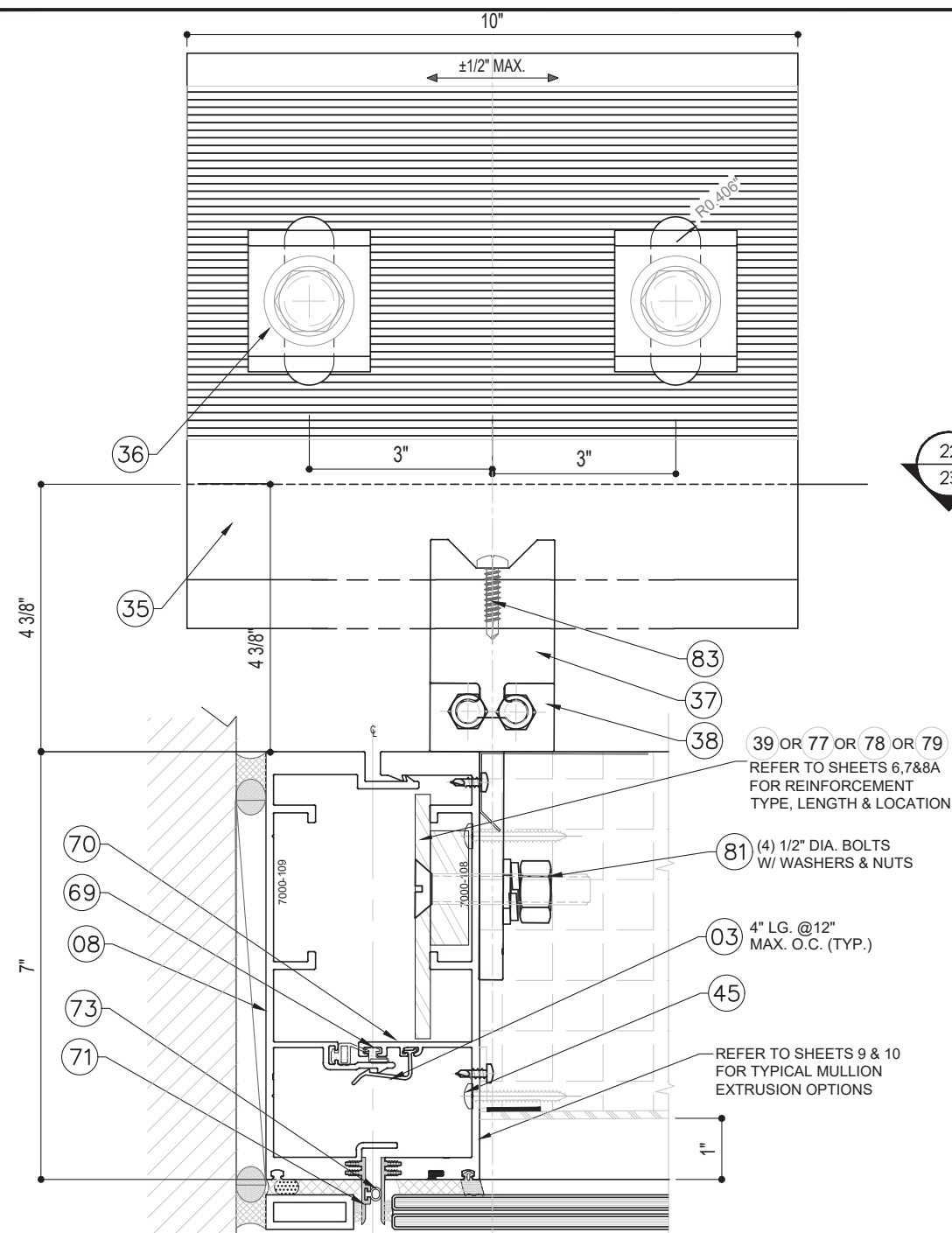
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MIAMI, FL 33142

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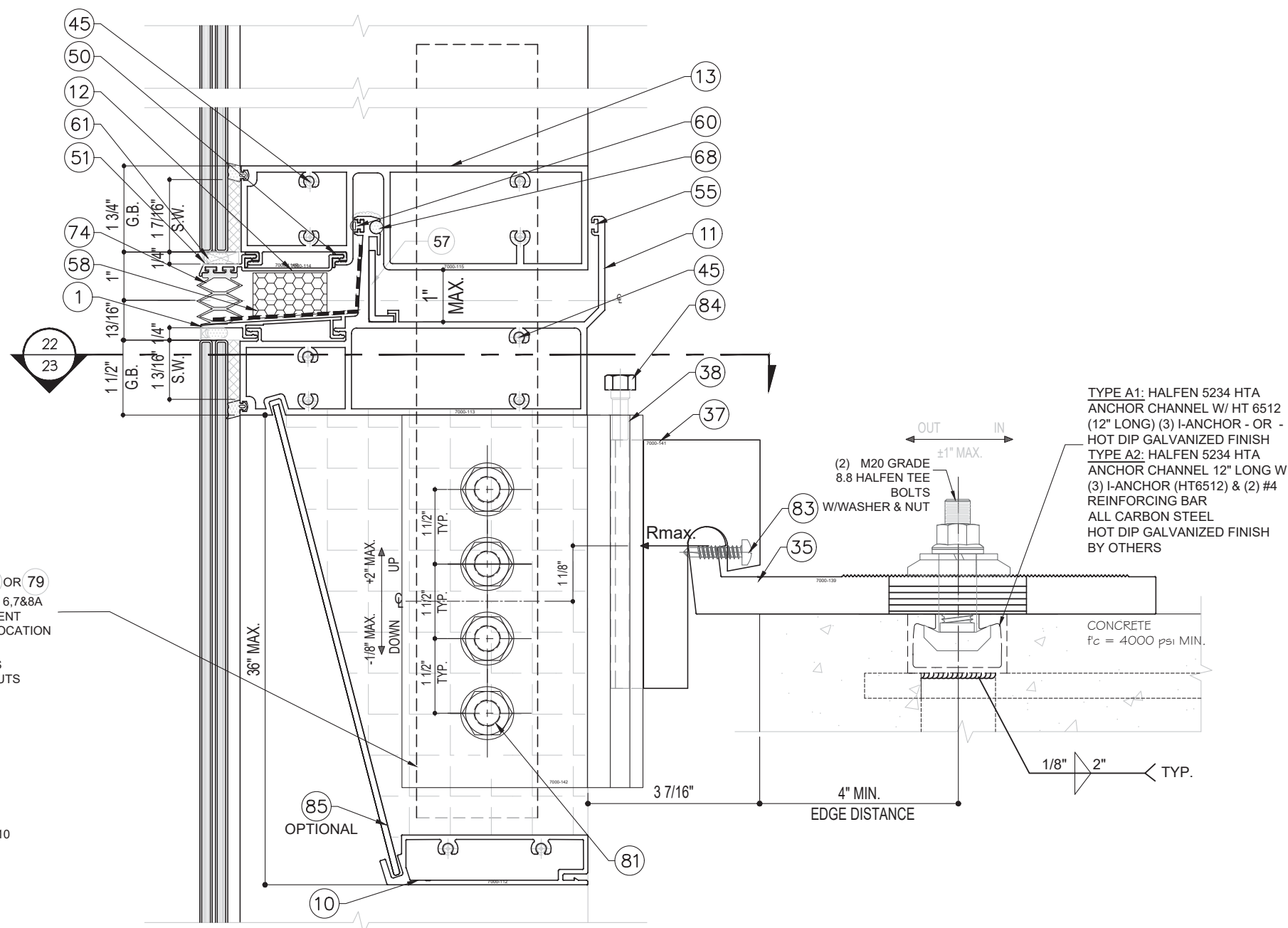
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22 TYP. JAMB - ANCHOR TYPE A1, A2
23

JAMB SPAN*	MIN. GAP	MAX. GAP
≤ 120"	0.38"	0.75"
132"	0.42"	0.75"
144"	0.46"	0.75"
156"	0.5"	0.75"
168"	0.54"	0.75"
180"	0.58"	0.75"
192"	0.62"	0.75"
204"	0.65"	0.75"
208"	0.67"	0.75"

*JAMB SPAN: - ANCHOR C TO C



23 JAMB EXP. JOINT - ANCHOR TYPE A1, A2

23 SECTION

	MAX. DESIGN LOAD (PSF)					
	SPAN (in)	MULLION SPACING (M.S.)				
		36	42	48	54	60
TYPE A1	120	140	140	131	116	105
	126	140	140	125	111	100
	132	140	136	119	106	95
	138	140	130	114	101	91
	144	140	125	109	97	97
TYPE A2	120	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	140
	138	140	140	140	140	140
	144	140	140	140	140	140

TYPE A1: HALFEN 5234 HTA
ANCHOR CHANNEL W/ HT 6512
(12" LONG) (3) I-ANCHOR - OR -
HOT DIP GALVANIZED FINISH
TYPE A2: HALFEN 5234 HTA
ANCHOR CHANNEL 12" LONG W
(3) I-ANCHOR (HT6512) & (2) #4
REINFORCING BAR
ALL CARBON STEEL
HOT DIP GALVANIZED FINISH
BY OTHERS

CONCRETE
 $f'_c = 4000 \text{ psi MIN}$

2" < TYP.

FLORIDA APPROVAL:
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September 28th, 2023

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GLAZING CONSULTANTS

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MIARAMAR, FL 33027 F: 305.588.5224
www.MCY-engineering.com MCY@mcy-engineering.com

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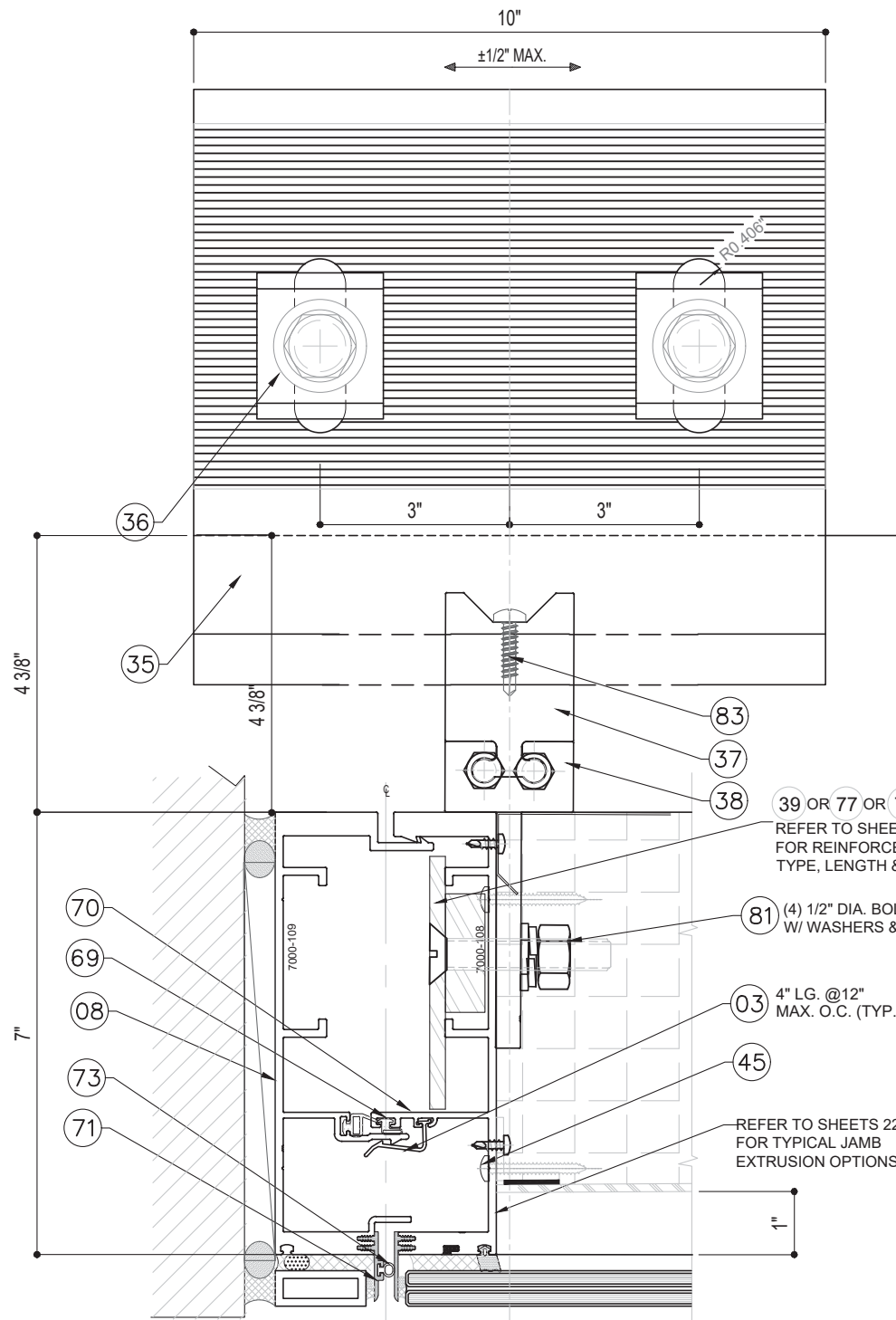
TECNOGLASS, LLC
3550 NW 49TH STREET
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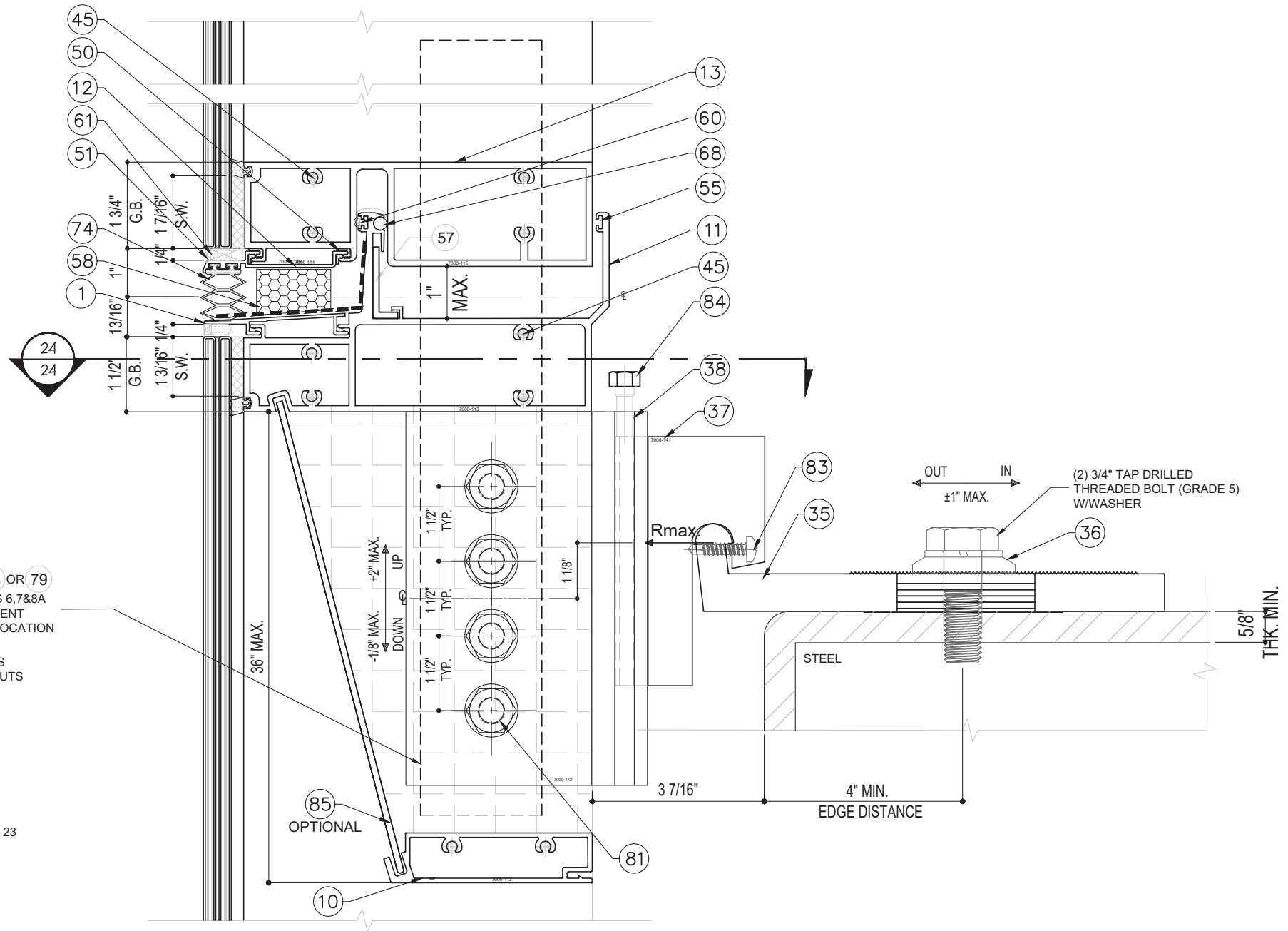


24
24 TYP. JAMB - ANCHOR TYPE B1

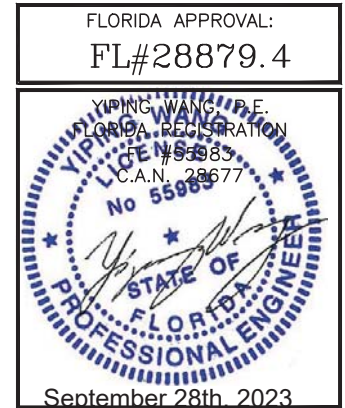
TABLE # 4: MIN/MAX SHIM GAP

JAMB SPAN*	MIN. GAP	MAX. GAP
≤ 120"	0.38"	0.75"
132"	0.42"	0.75"
144"	0.46"	0.75"
156"	0.5"	0.75"
168"	0.54"	0.75"
180"	0.58"	0.75"
192"	0.62"	0.75"
204"	0.65"	0.75"
208"	0.67"	0.75"

*JAMB SPAN: - ANCHOR C TO C



25
24 JAMB EXP. JOINT - ANCHOR TYPE B1
SECTION



NO.	DATE	DESCRIPTION
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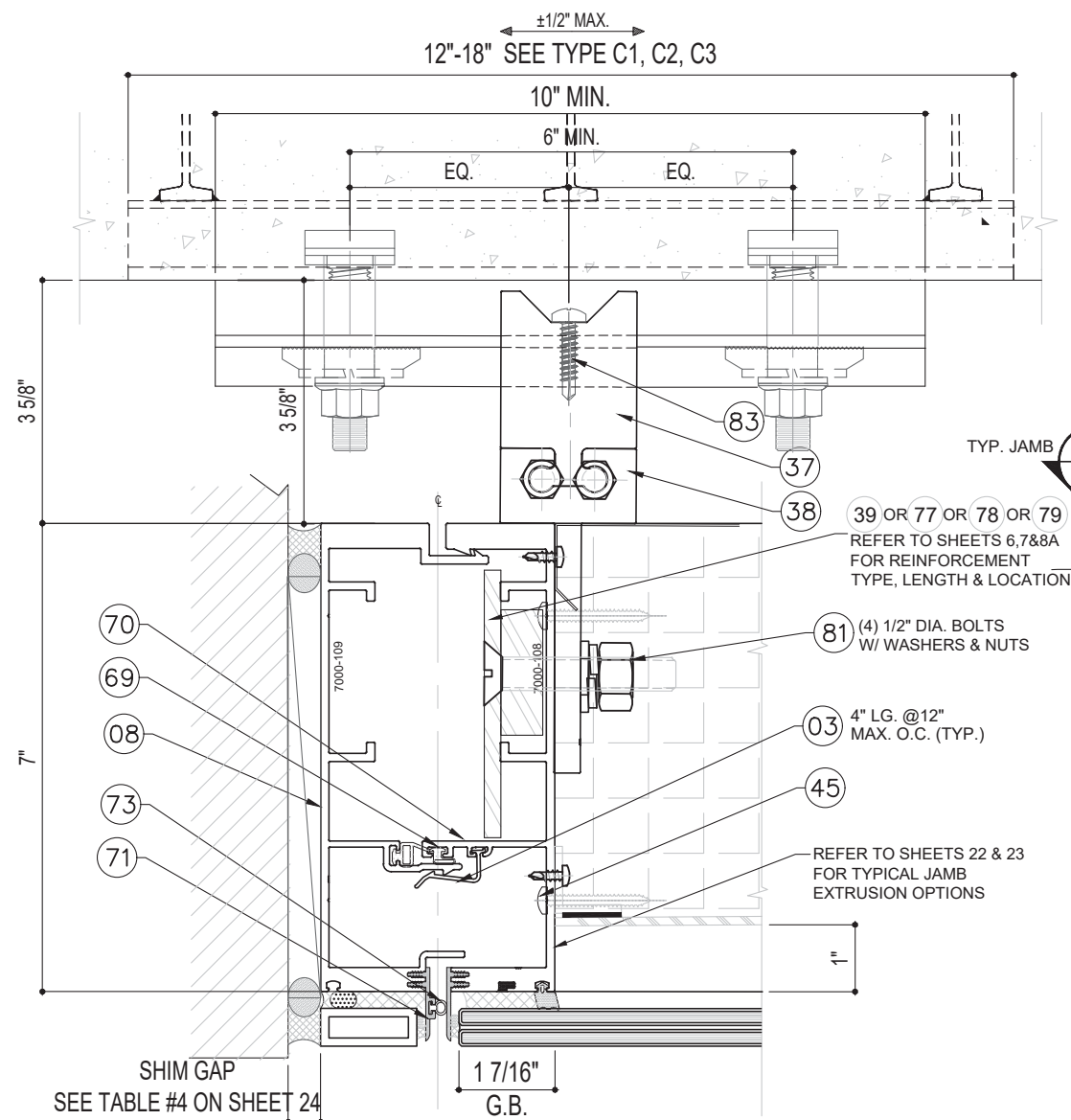
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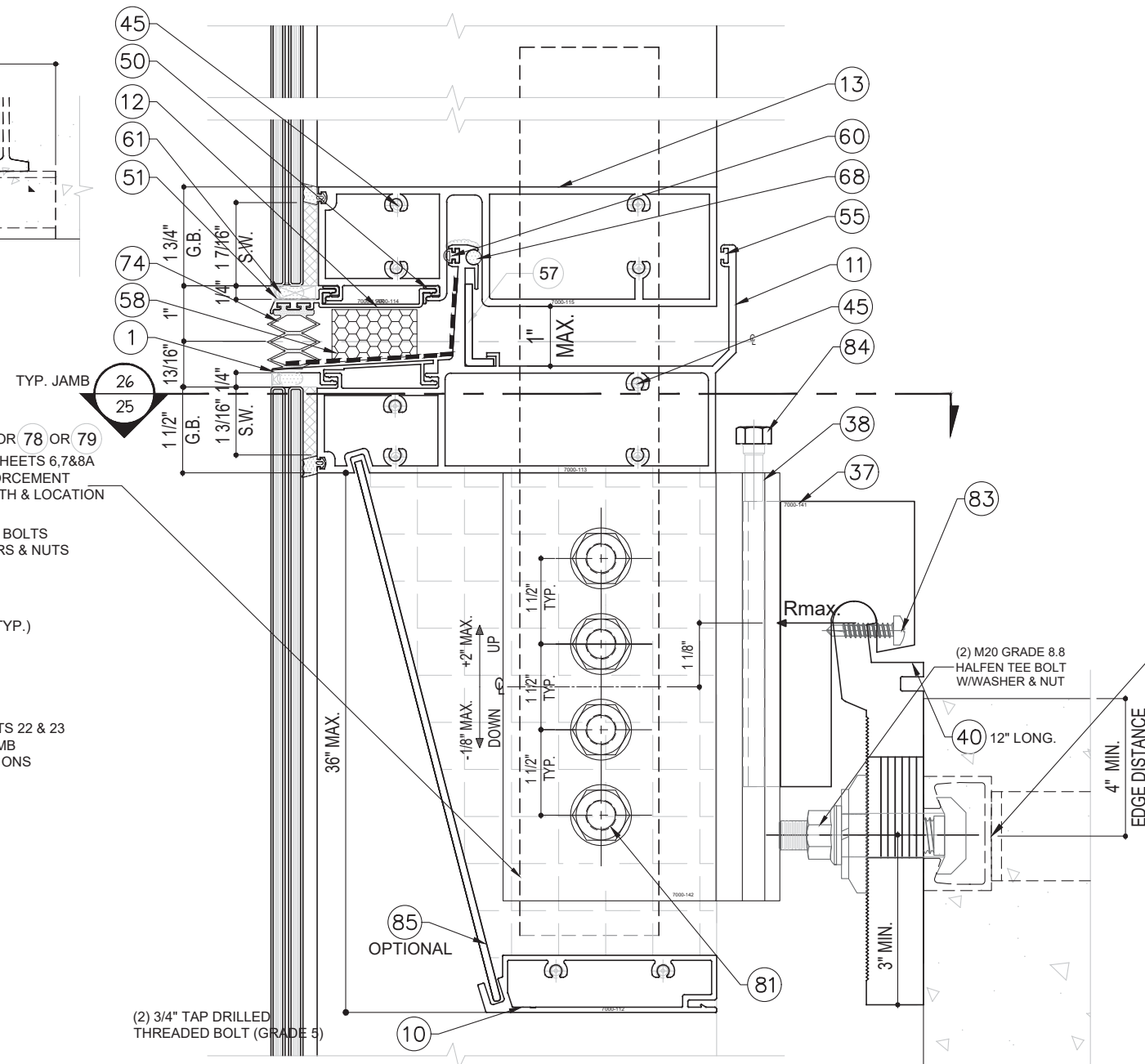
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PROJECT	MCY19-010
DRAWING NO.	AD19-07A
24 OF 38	



26
25 TYP. JAMB - ANCHOR TYPE C1, C2, C3

	MAX. DESIGN LOAD (PSF)					
	SPAN (in)	MULLION SPACING (M.S.)				
		36	42	48	54	60
TYPE C1	120	140	140	140	140	132
	126	140	140	140	140	126
	132	140	140	140	133	120
	138	140	140	140	128	115
	144	140	140	138	122	110
TYPE C2	120	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	138
	138	140	140	140	140	132
	144	140	140	140	140	127
TYPE C3	120	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	140
	138	140	140	140	140	140
	144	140	140	140	140	140



27
25 JAMB EXP. JOINT - ANCHOR TYPE C1, C2, C3 SECTION

TYPE C1: HALFEN 5234 HM ANCHOR CHANNEL W/ HT 6112 (12" LONG) (2) I-ANCHOR - OR -
 TYPE C2: HALFEN 5542 HM WITH HT 6712 (16" LONG) (2) I-ANCHOR
 TYPE C3: HALFEN 5542 HM WITH HT 6818 (18" LONG) (3) I-ANCHOR
 ALL CARBON STEEL
 HOT DIP GALVANIZED FINISH
 BY OTHERS

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
 FLORIDA REGISTRATION
 No. 55985
 C.A.N. 28677

September 28th, 2023

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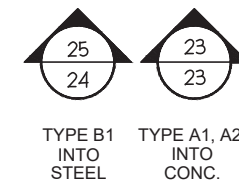
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 PH: (305)-342-0890 FAX (786) 513-3965

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PROJECT	MCY19-010

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30
27

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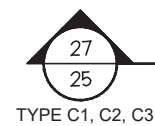
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FLORIDA REGISTRATION
#55983
C.A.N. 28677

No 55983

STATE OF
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September 28th, 2023

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FLORIDA APPROVAL:

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YIPING WANG, P.E.
FLORIDA REGISTRATION
#55863
C.A.N. 28677

No 55863

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

September 28th, 2023

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NO.	DATE
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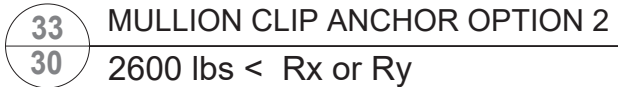
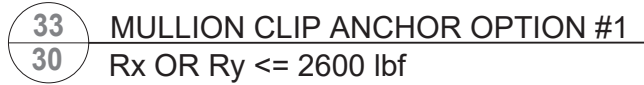


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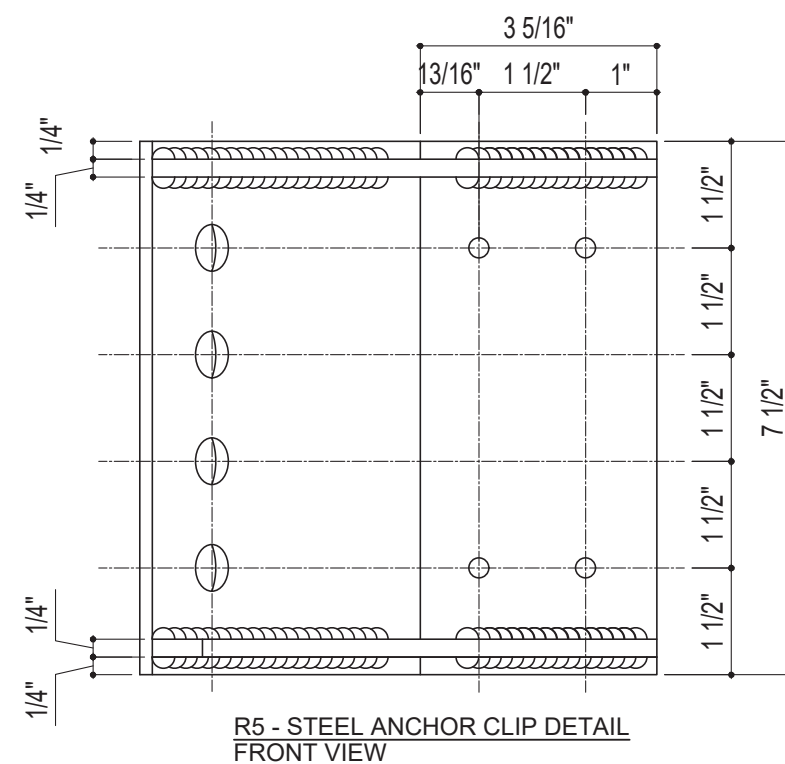
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DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	
AD19-07A	
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	MAX. DESIGN LOAD (PSF)					
	SPAN (in)	MULLION SPACING (M.S.)				
		36	42	48	54	60
OPTION 1	120	140	129	113	100	90
	126	140	123	108	96	86
	132	137	117	103	91	82
	138	131	112	98	87	79
	144	126	108	94	84	75
OPTION 2	120	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	140
	138	140	140	140	140	140
	144	140	140	140	140	140



FLORIDA APPROVAL:
FL#28879.4

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

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

September 28th, 2023

REVISIONS		
NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIARAMAR PARKWAY #301
MIRAMAR, FL 33027

P: 305.271.0117
F: 305.588.5224

 www.MCYEngineering.com MCY@mcyengineering.com

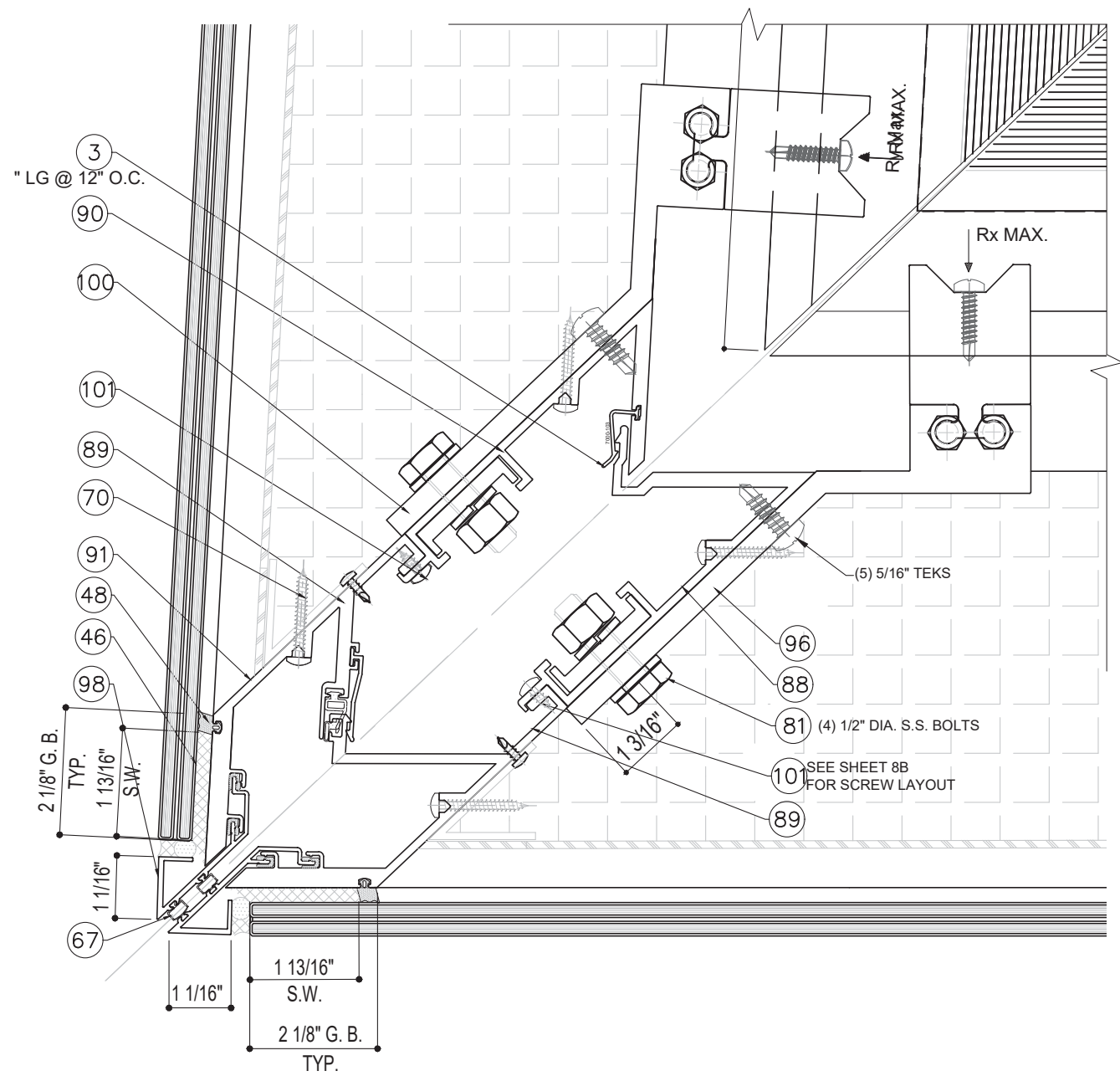
SERIES 7000 ALUMINUM CURTAIN WALL LAM. GLASS - LMI & SMI

TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142

PH: (305)-342-0890 FAX (786) 513-3965

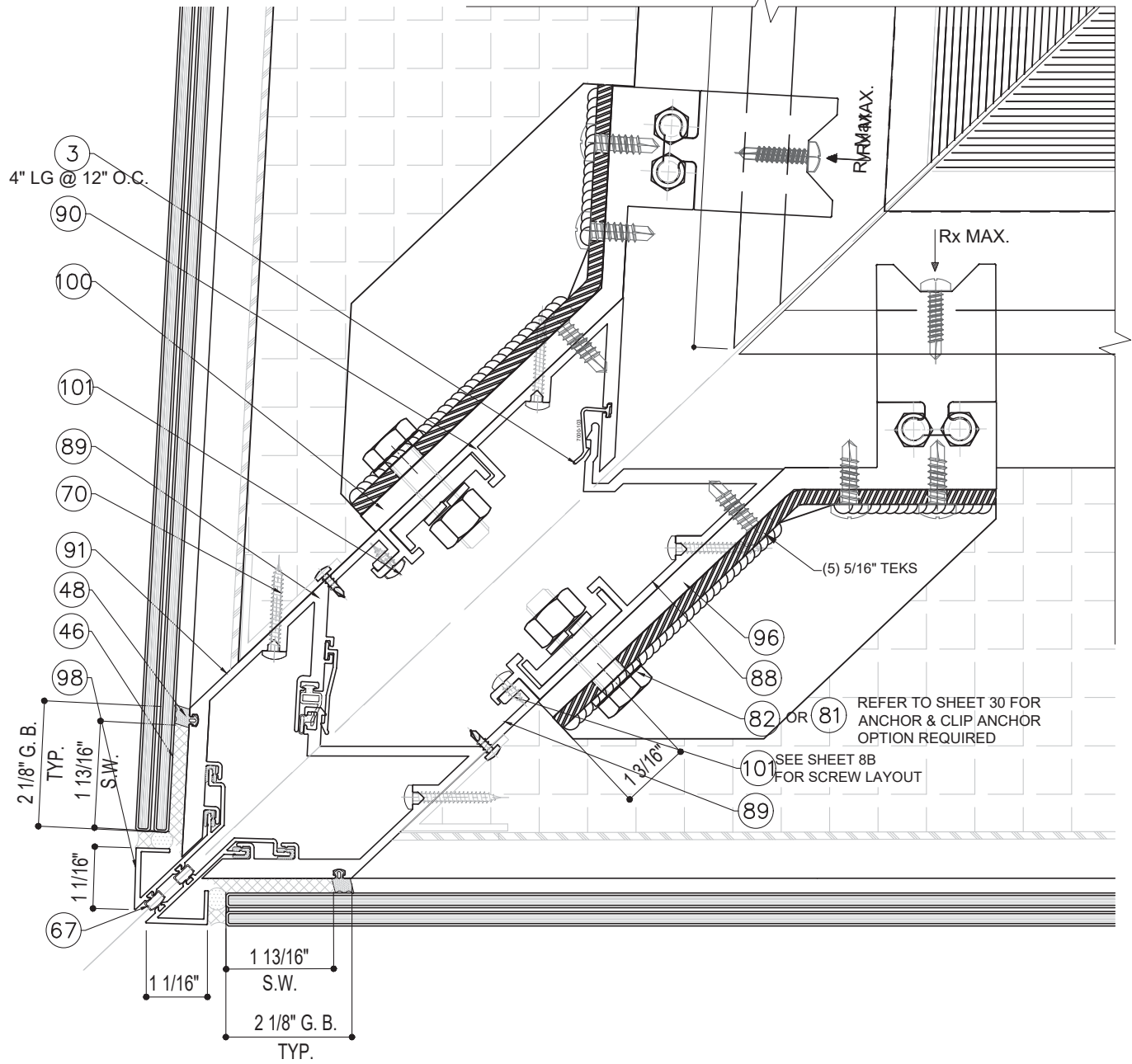
DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A



33A
30A MULLION 86.90° CORNER CLIP ANCHOR OPTION 1
Rx or Ry ≤ 2600 lbs

NOTE:
REFER TO SHEETS 30 FOR SECTION
R5 AND MAX. DESIGN LOAD FOR
OPTION 1 AND OPTION 2.



33A
30A MULLION 86.90° CORNER CLIP ANCHOR OPTION 2
2600 lbs < Rx or Ry

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
#95385
C.A.N. 28677

September 28th, 2023

NO.	DATE	DESCRIPTION
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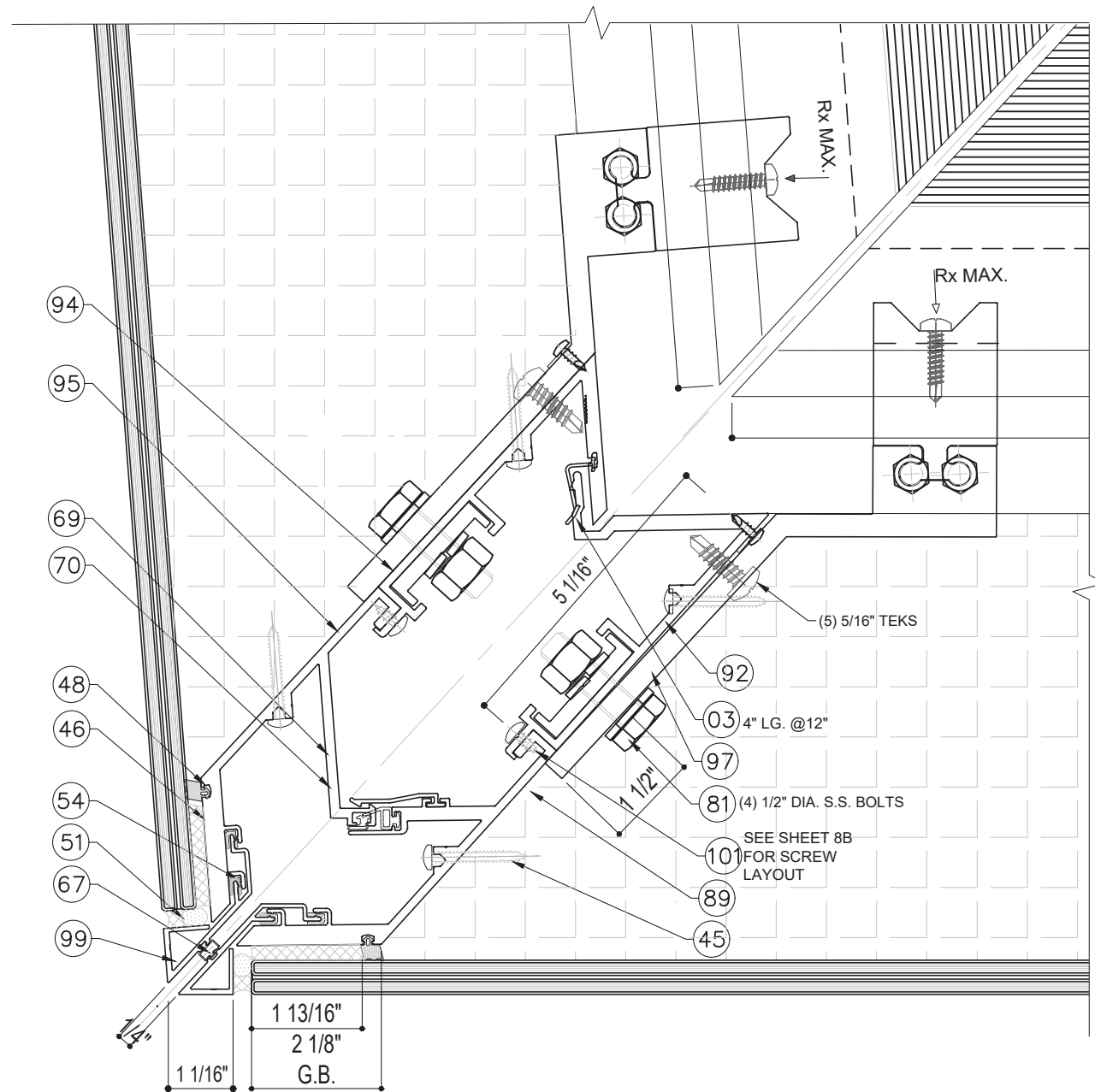
TECNOGLASS, LLC
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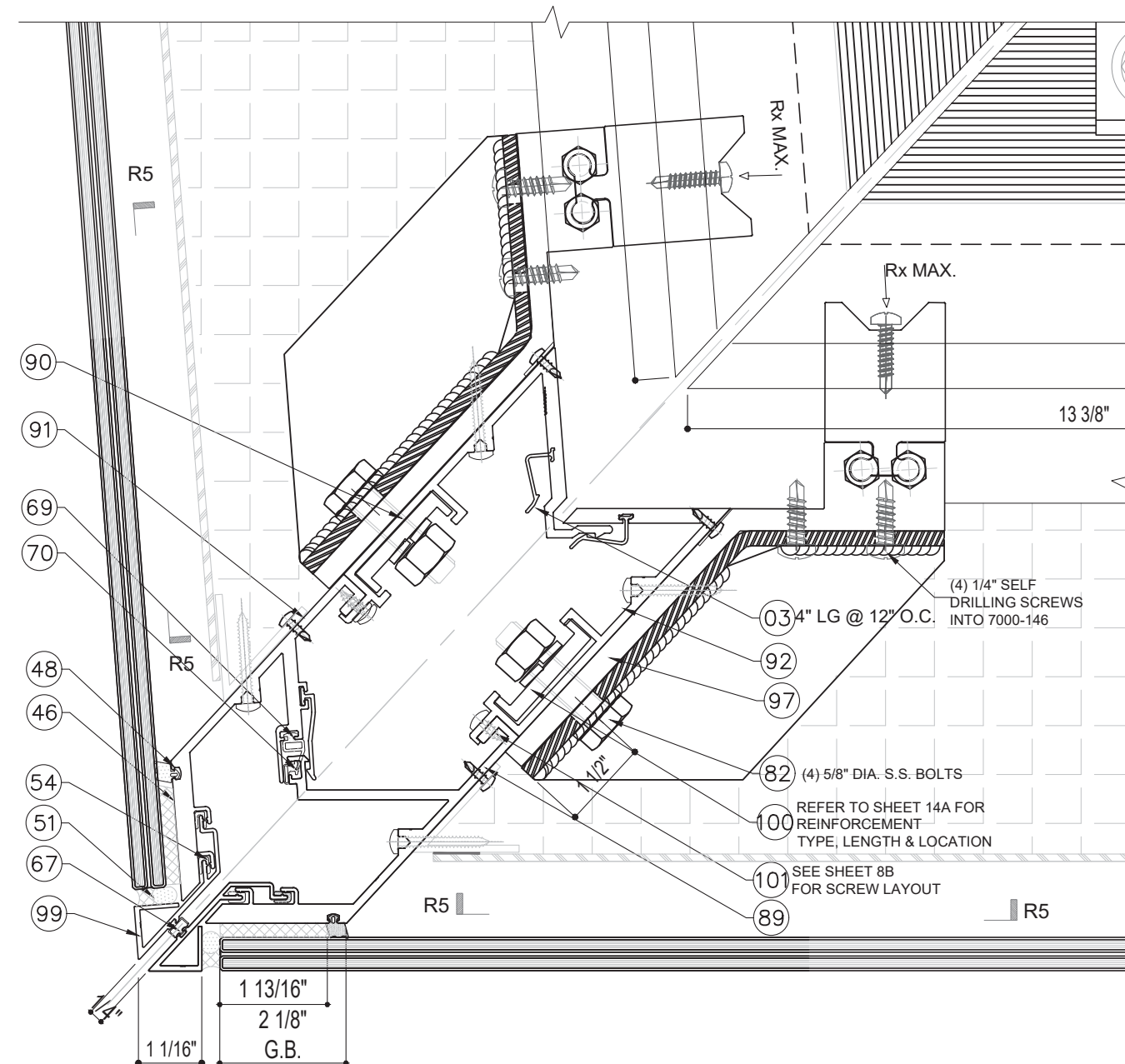
DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A

30A OF 38



33B
30B MULLION 94.40° CORNER CLIP ANCHOR OPTION 1
Rx or Ry ≤ 2600 lbs



33B
30B MULLION 94.40° CORNER CLIP ANCHOR OPTION 2
2600 lbs < Rx or Ry

NOTE:
REFER TO SHEETS 30 FOR SECTION
R5 AND MAX. DESIGN LOAD FOR
OPTION 1 AND OPTION 2.

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
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NO.	DATE	DESCRIPTION
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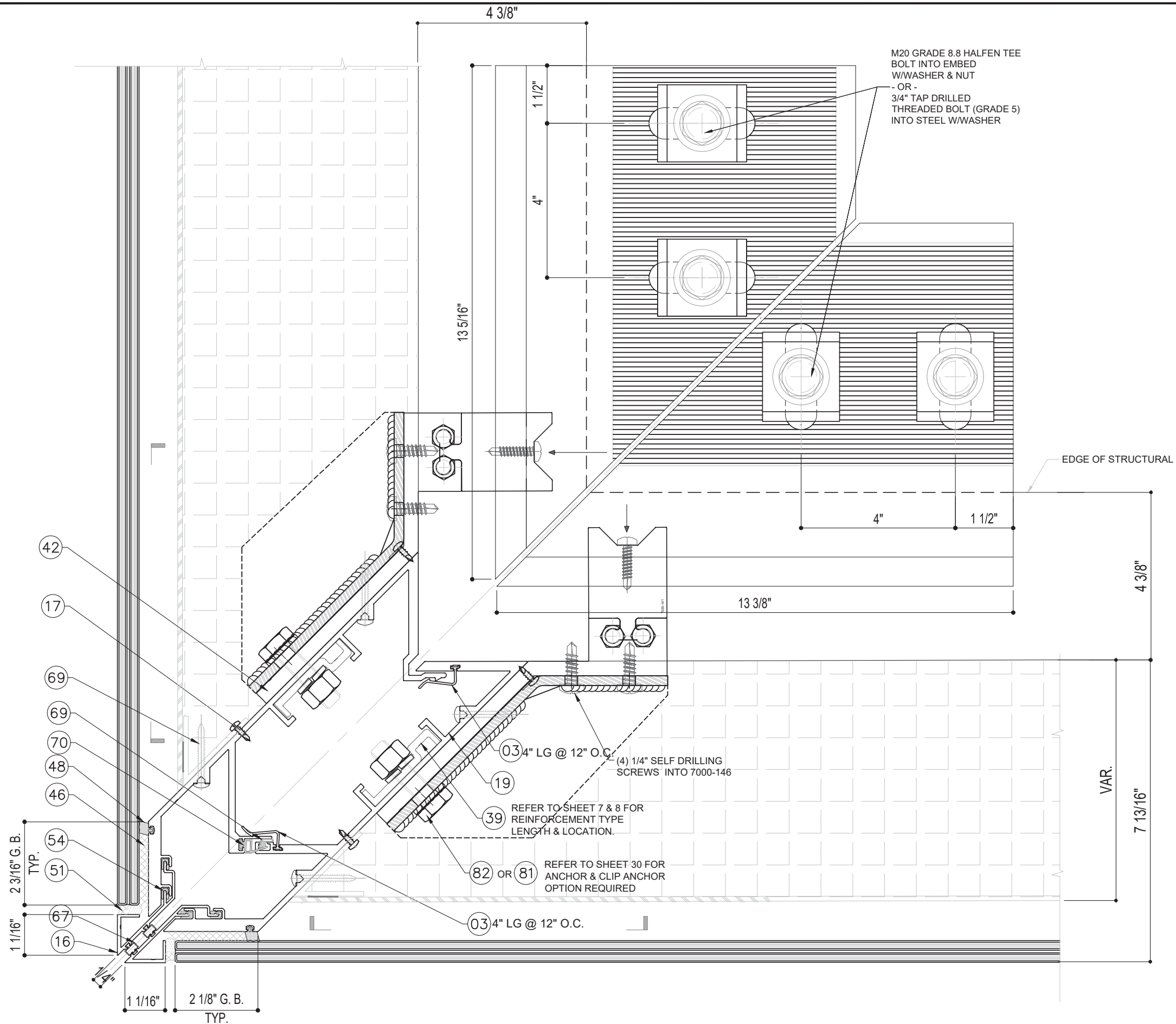
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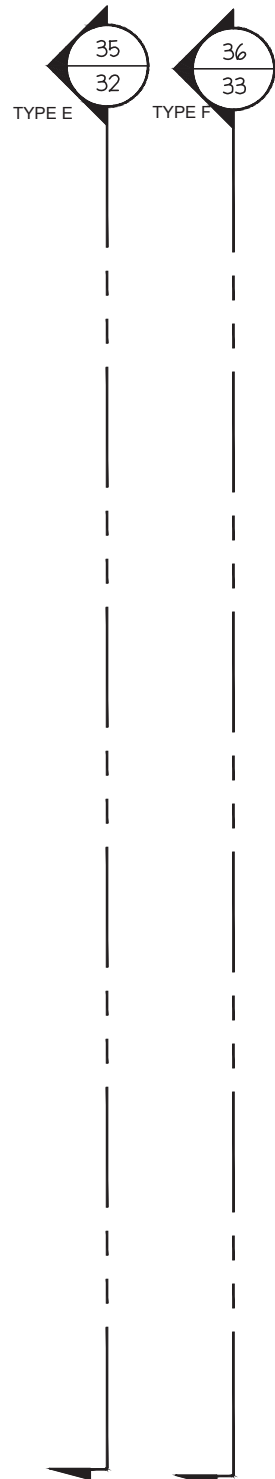
DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-07A
30B OF 38	



34 OUTSIDE CORNER MULL.
31 ANCHOR TYPE E OR F

M20 GRADE 8.8 HALFEN TEE
BOLT INTO EMBED
W/WASHER & NUT
- OR -
3/4\" TAP DRILLED
THREADED BOLT (GRADE 5)
INTO STEEL W/WASHER

EDGE OF STRUCTURAL



FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
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September 28th, 2023

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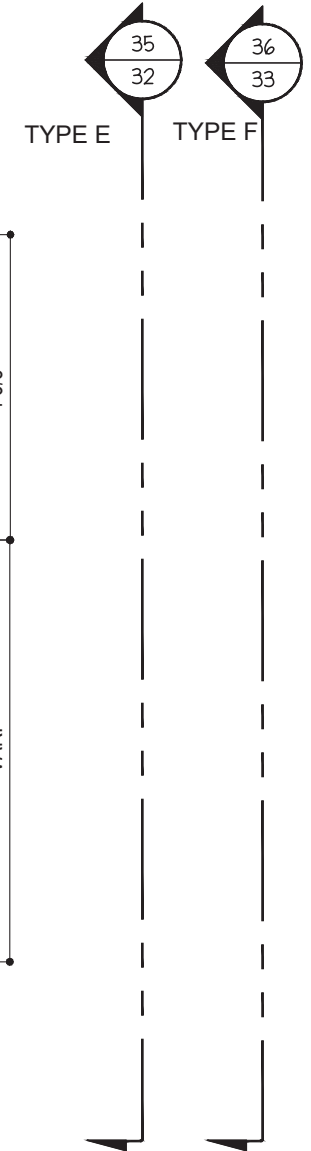
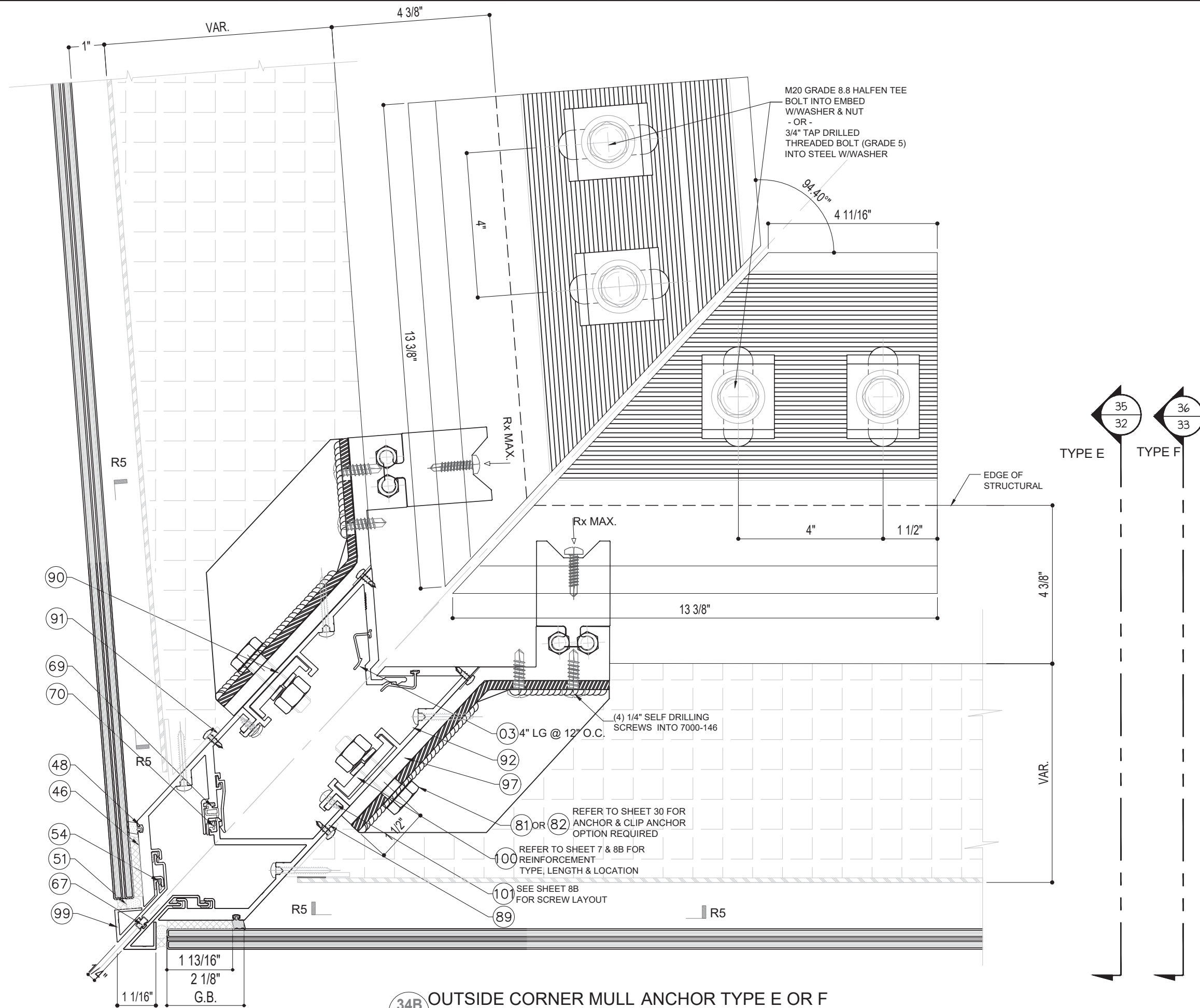
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DATE	09.19.2023
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PROJECT	MCY19-010

DRAWING NO.
AD19-07A



34B
31B OUTSIDE CORNER MULL ANCHOR TYPE E OR F

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FL#28879.4

YIPING WANG, P.E.
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No. 55985
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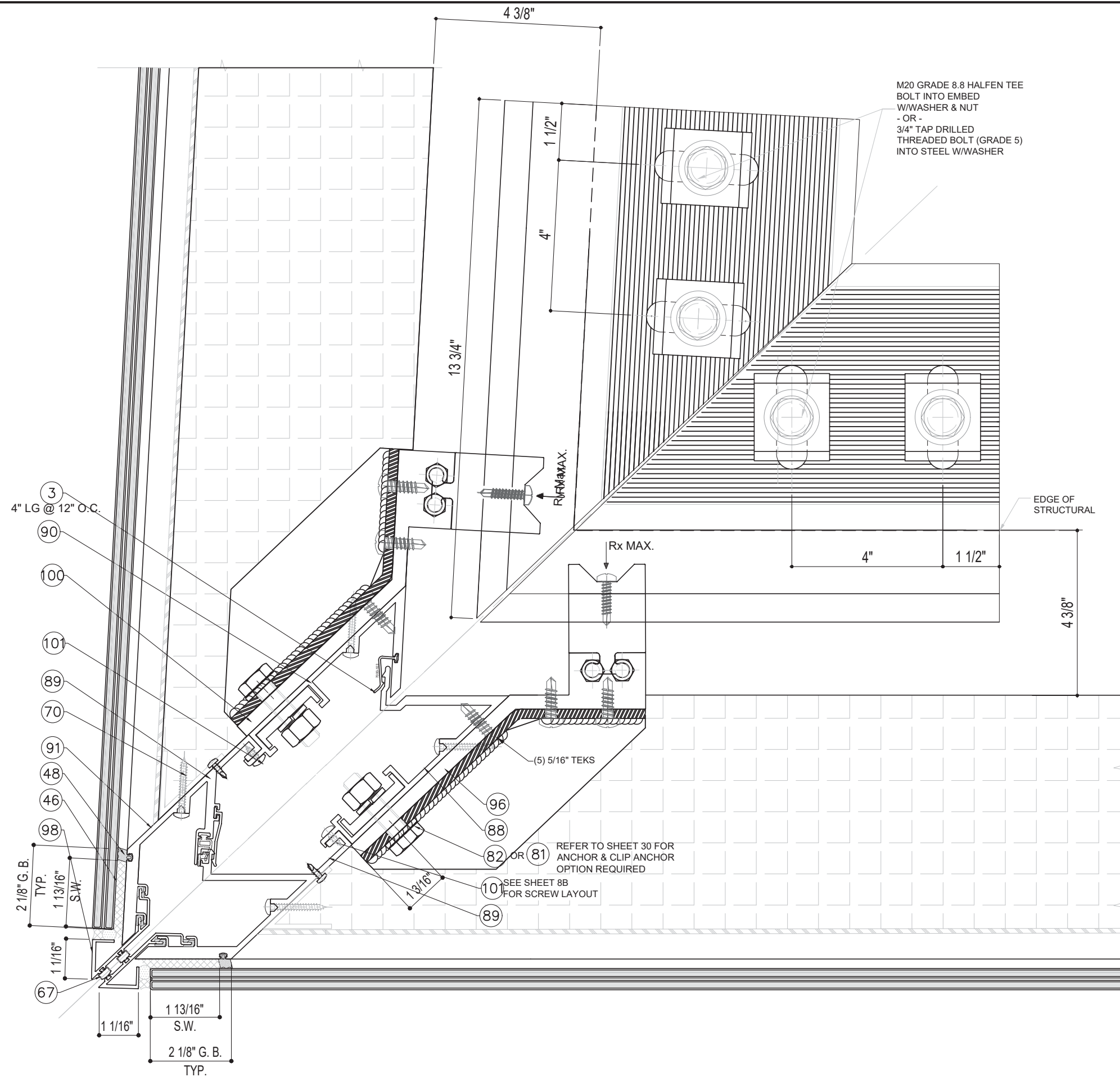
TECNOGLASS, LLC
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PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A

31B OF 38



33A MULLION 86.90° CORNER CLIP ANCHOR OPTION 2
30A 2600 lbs < Rx or Ry

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
#93983
C.A.N. 28677
No 55983

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

September 28th, 2023

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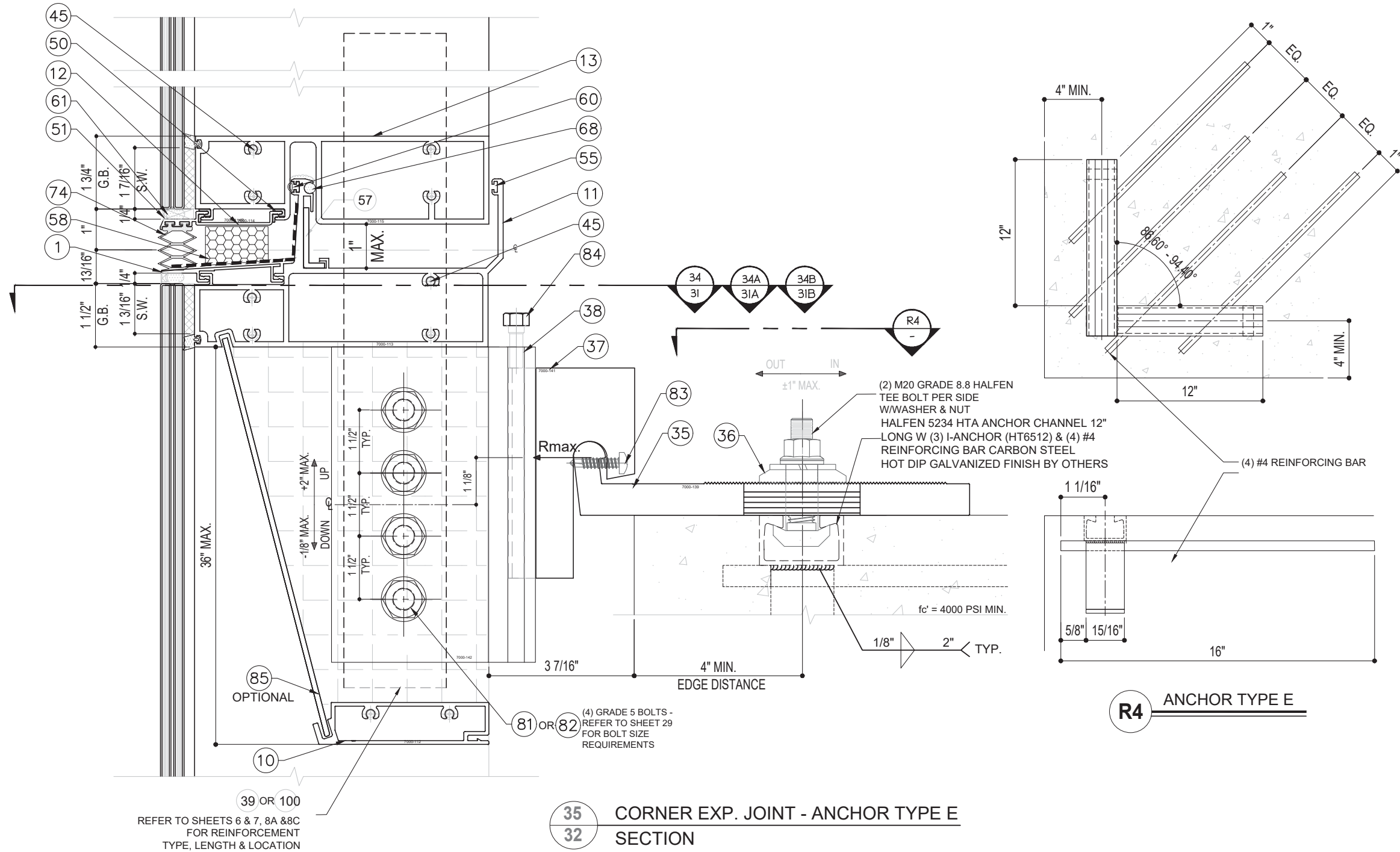
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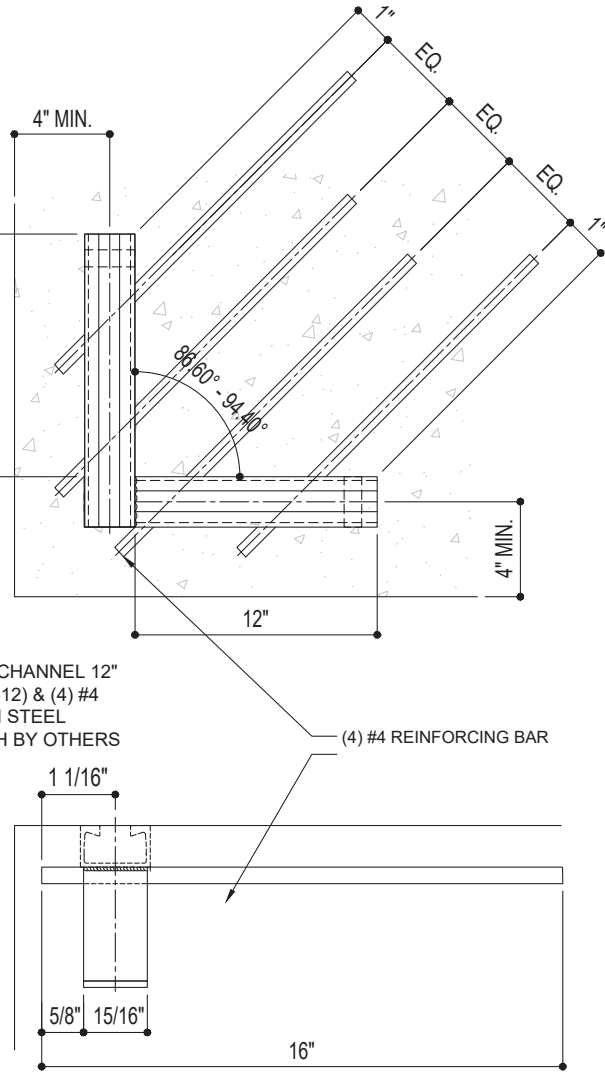
REVISIONS

NO	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

P: 305.271.0117
F: 305.588.5224
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35
32 CORNER EXP. JOINT - ANCHOR TYPE E
SECTION



R4 ANCHOR TYPE E

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
No 55985
C.A.N. 28677

September 28th, 2023

REVISIONS	
NO.	DATE
R2	09.19.2023

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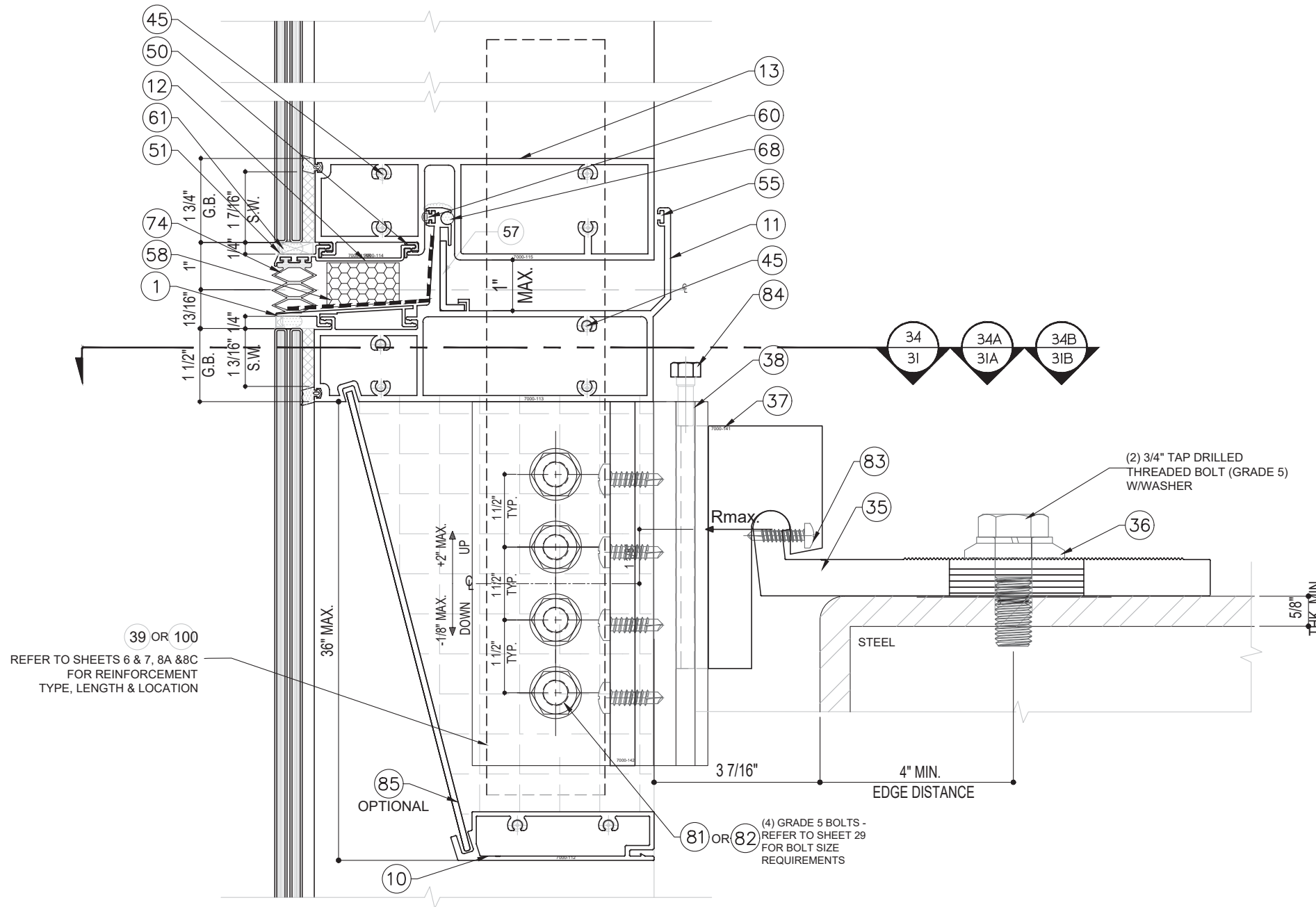
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MIAMI, FL 33027
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F: 305.588.5224
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TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A



36
33 CORNER EXP. JOINT - ANCHOR TYPE F
SECTION

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
No 55985
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September 28th, 2023

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DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A

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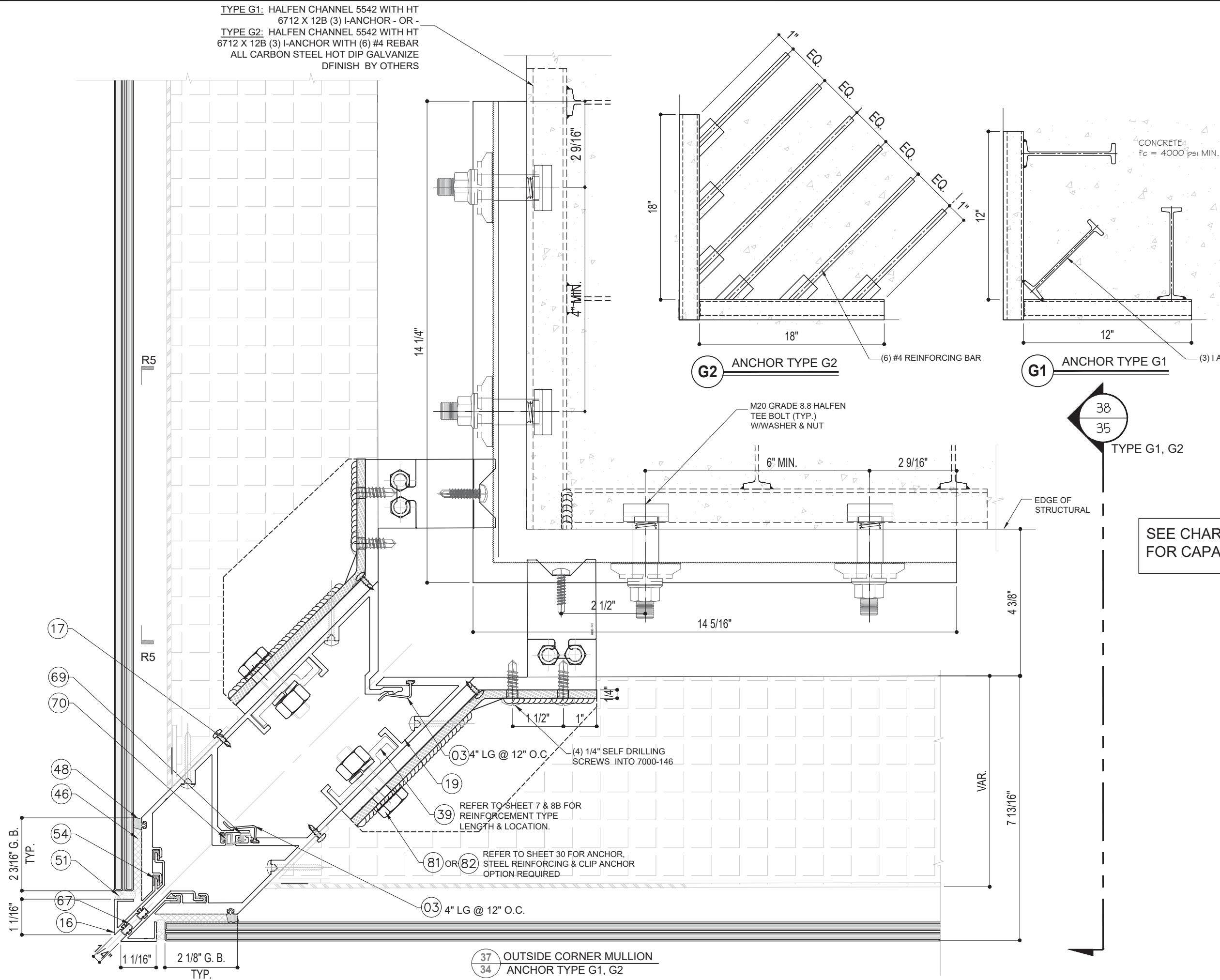
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MCY@mcyengineering.com

NO	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023



SEE CHART ON SHEET 35
FOR CAPACITIES

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55985
C.A.N. 28677

September 28th, 2023

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MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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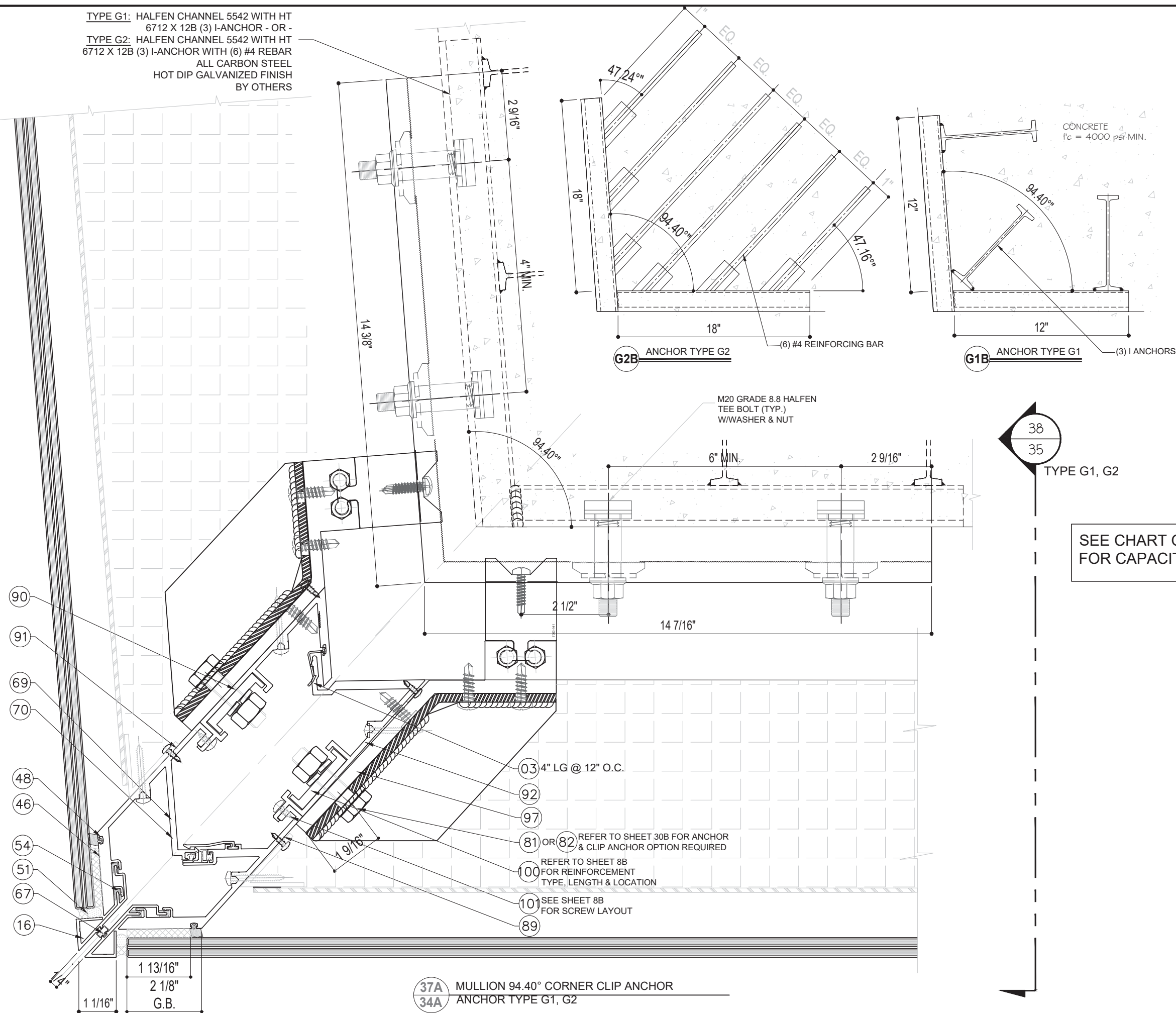
TECNOGLASS, LLC
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PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A

TYPE G1: HALFEN CHANNEL 5542 WITH HT
6712 X 12B (3) I-ANCHOR - OR -
TYPE G2: HALFEN CHANNEL 5542 WITH HT
6712 X 12B (3) I-ANCHOR WITH (6) #4 REBAR
ALL CARBON STEEL
HOT DIP GALVANIZED FINISH
BY OTHERS



NO	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

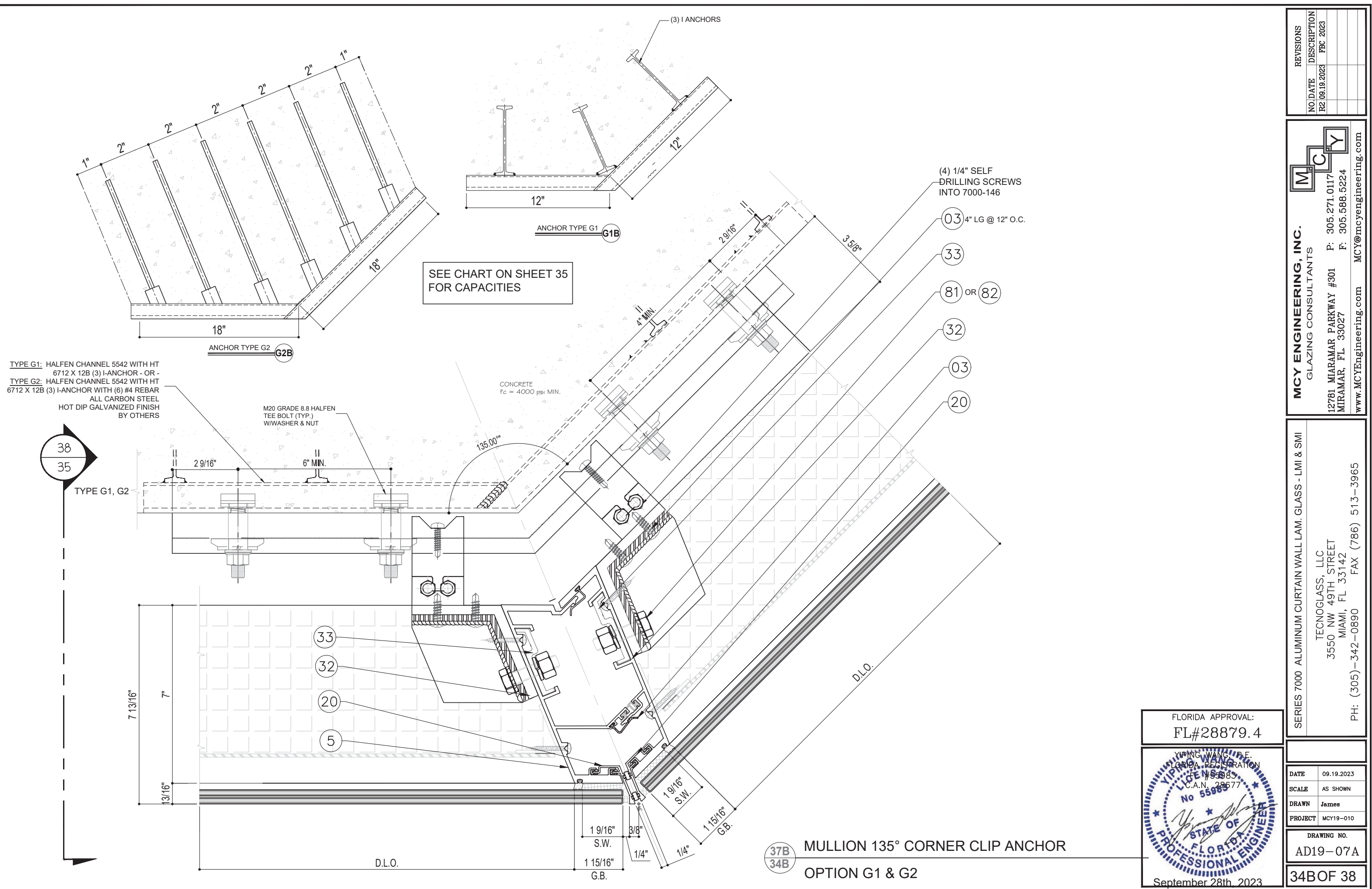
MCY ENGINEERING, INC.
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MIRAMAR, FL 33027
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F: 305.588.5224
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MCY@mcyengineering.com

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MIAMI, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

FLORIDA APPROVAL:
FL#28879.4
YIPING WANG, P.E.
FLORIDA REGISTRATION
No 55985
C.A.N. 28677
September 28th, 2023

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A
34AOF 38



REVISIONS

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

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TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.

AD19-07A

34BOF 38

FLORIDA APPROVAL:

FL#28879.4

YIPING WANG, P.E.

FLORIDA REGISTRATION

FL#93985

C.A.N. 28677

YIPING WANG

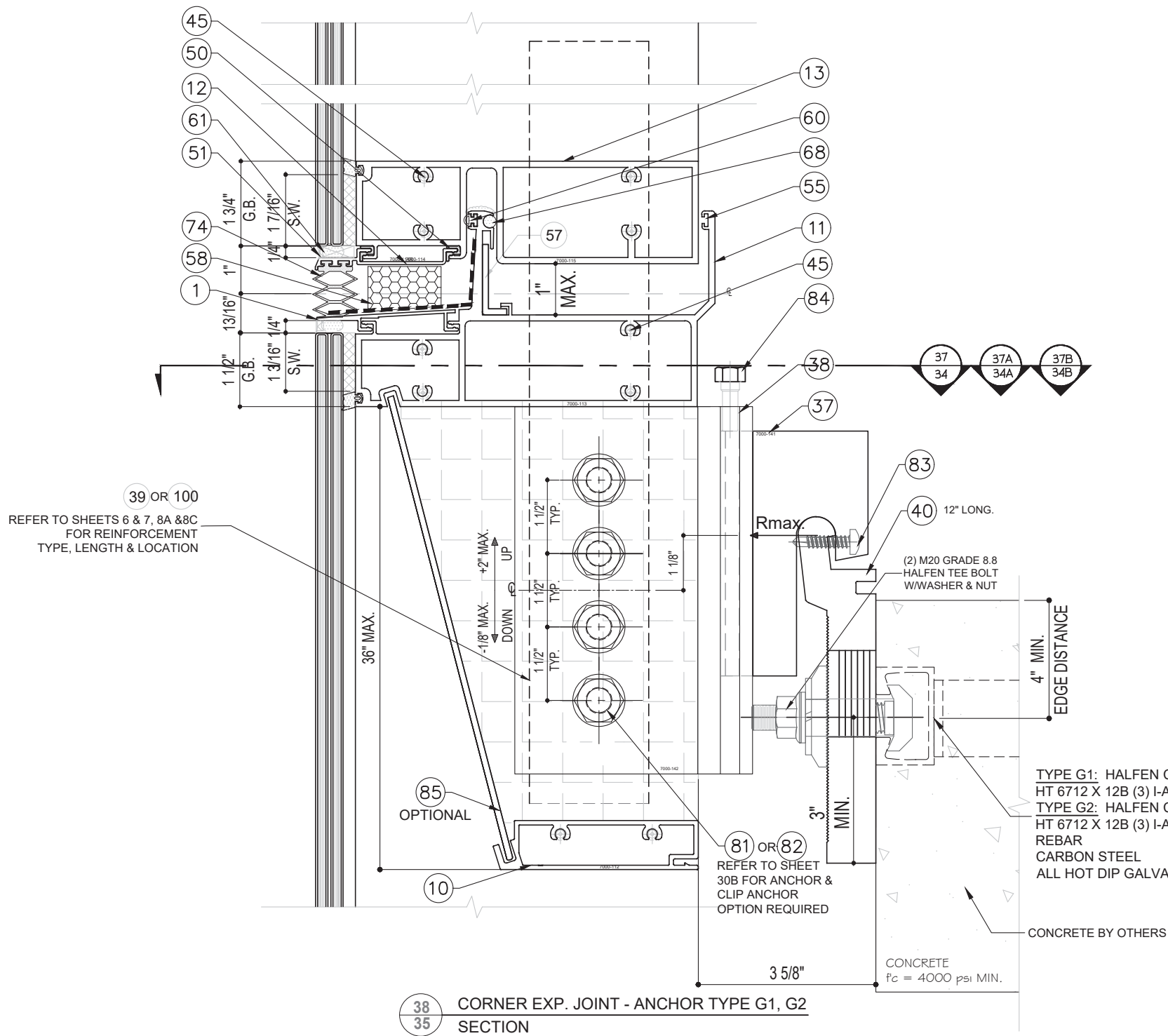
FLORIDA

PROFESSIONAL ENGINEER

No 55985

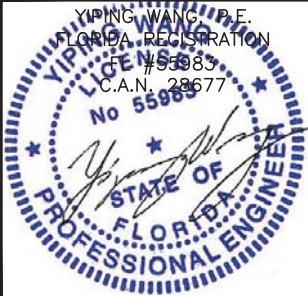
September 28th, 2023

MULLION 135° CORNER CLIP ANCHOR
OPTION G1 & G2



	MAX. DESIGN LOAD (PSF)					
	SPAN (in)	MULLION SPACING (M.S.)				
		36	42	48	54	60
TYPE G1	120	140	140	140	124	112
	126	140	140	133	119	107
	132	140	140	127	113	102
	138	140	139	122	108	97
	144	140	133	117	104	93
TYPE G2	120	140	140	140	140	140
	126	140	140	140	140	140
	132	140	140	140	140	140
	138	140	140	140	140	140
	144	140	140	140	140	140

FLORIDA APPROVAL:
FL#28879.4



September 28th, 2023

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

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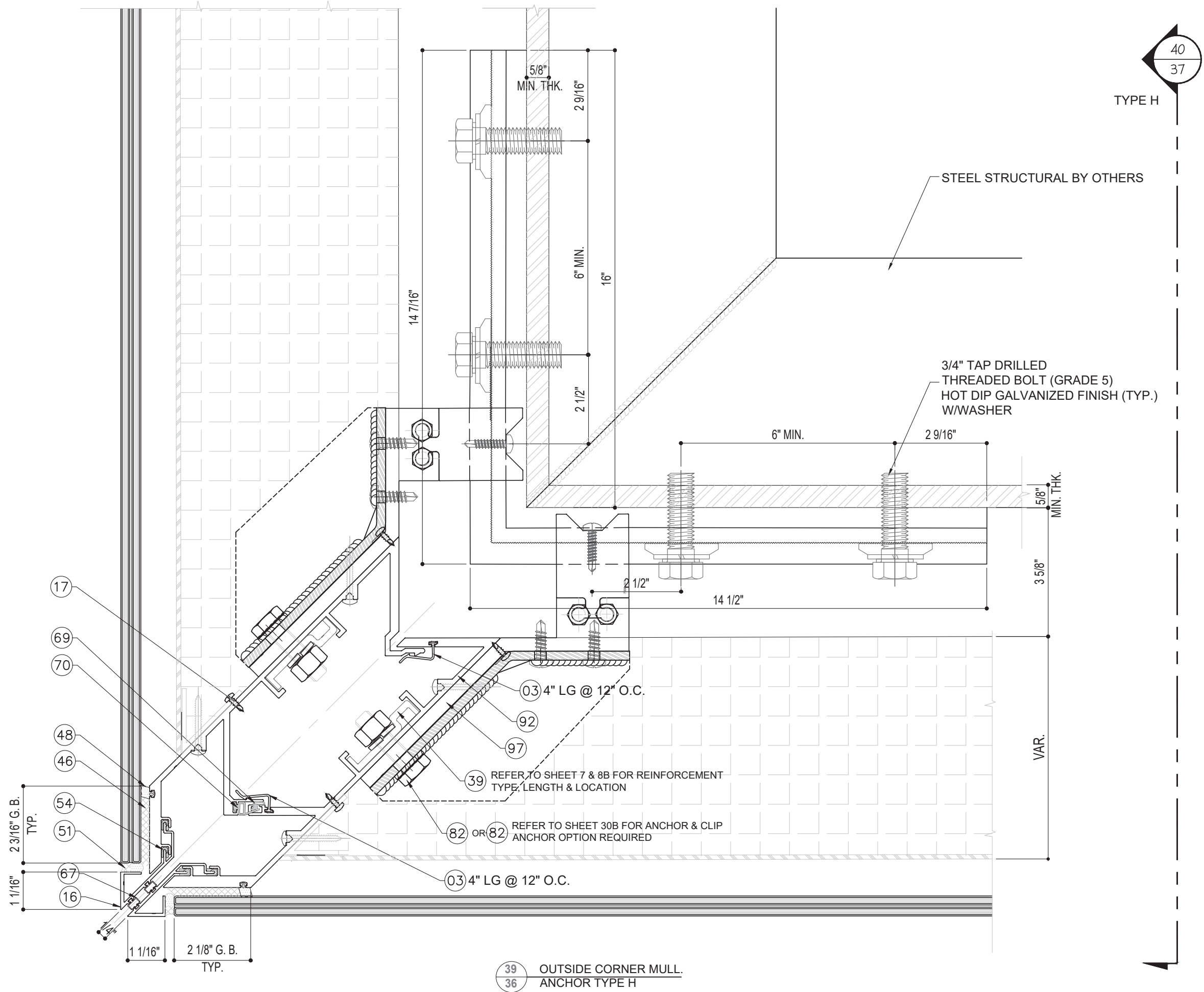
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PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A



40
37

TYPE H

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55985
C.A.N. 28677

September 28th, 2023

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DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A

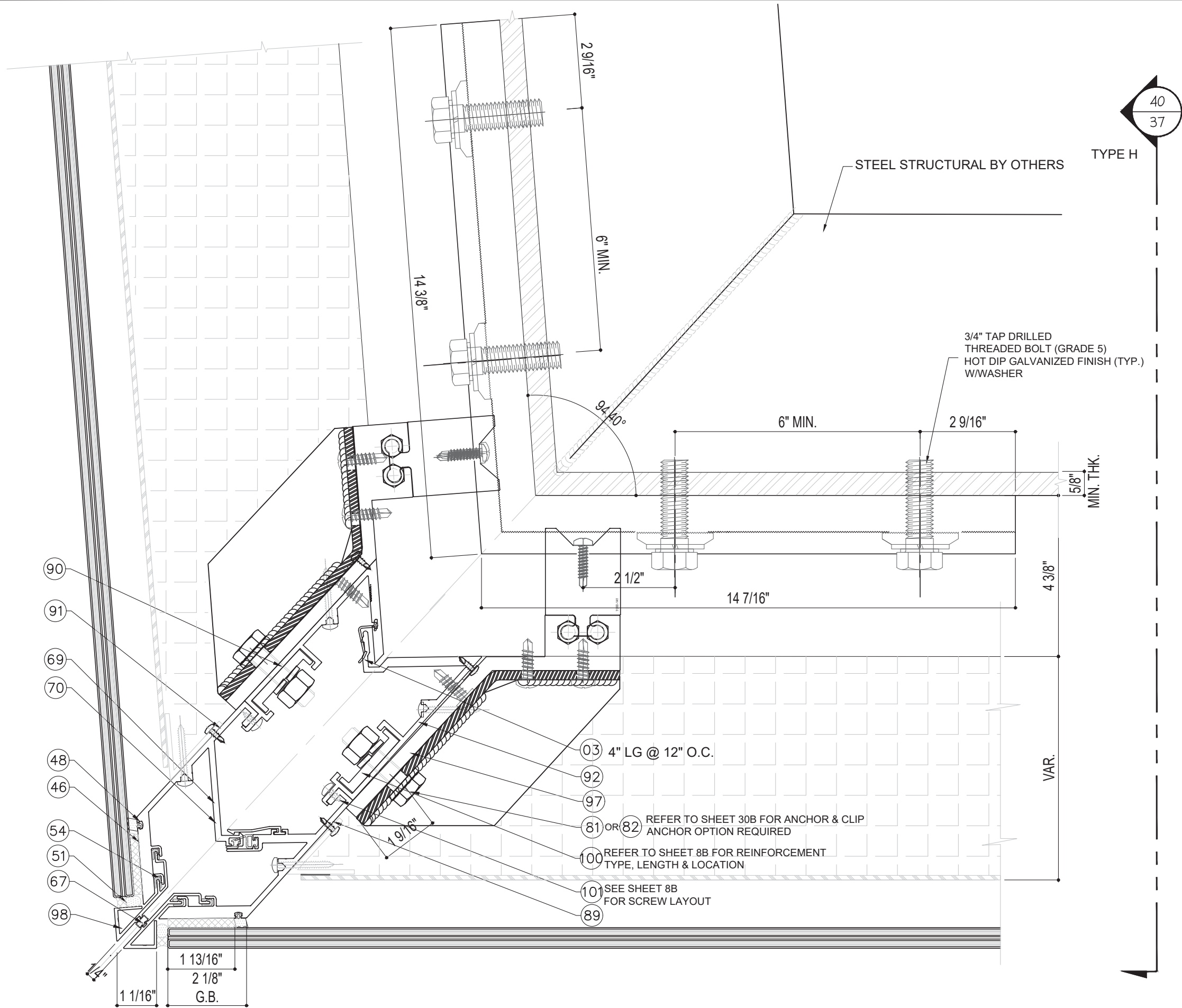
36 OF 38

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GLAZING CONSULTANTS

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REVISIONS

NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023



39A OUTSIDE CORNER 94.40° MULL.
36A ANCHOR TYPE H

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55985
C.A.N. 28677

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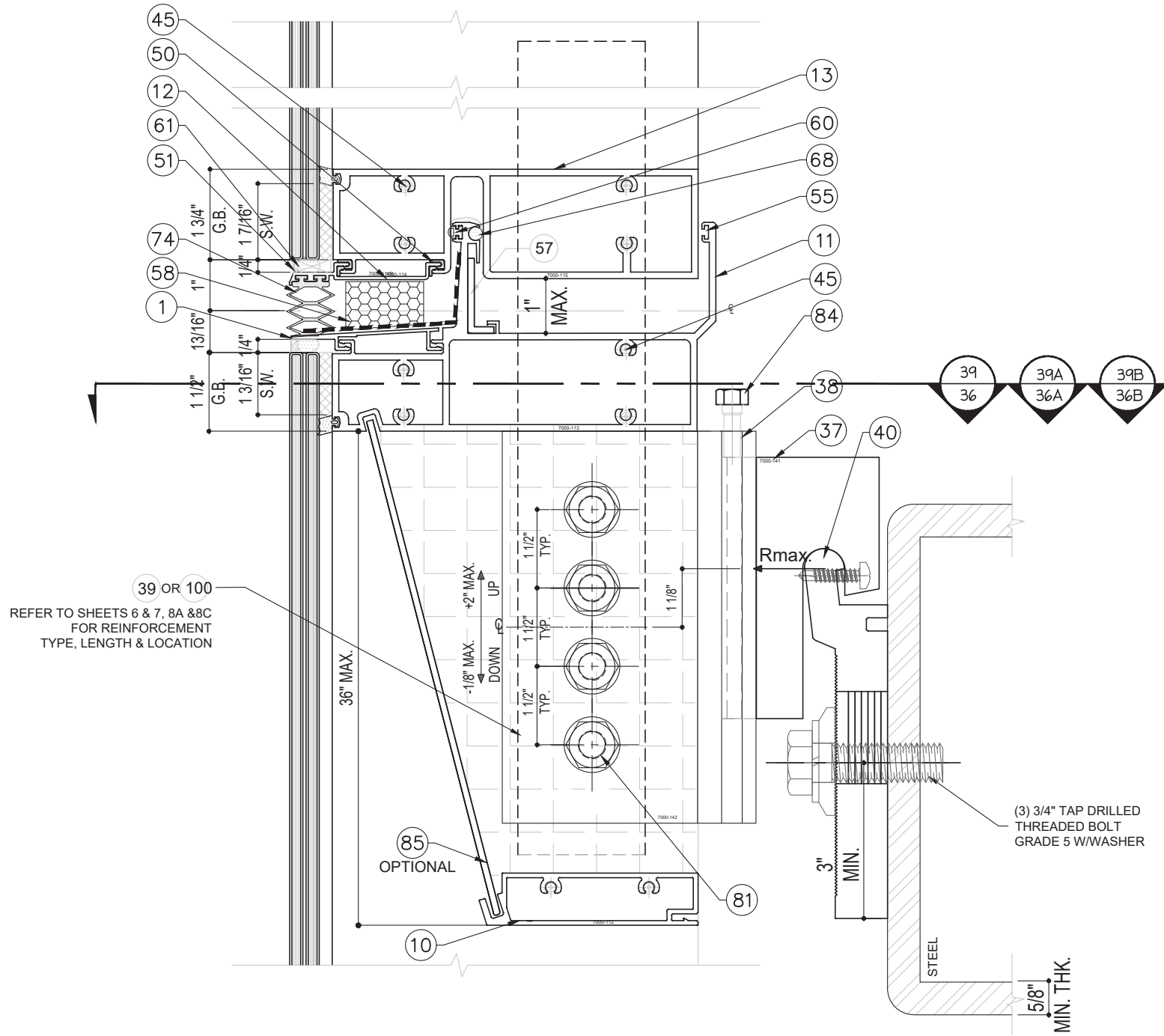
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MIAMI, FL 33142

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DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-07A

36AOF 38



39 OR 100
REFER TO SHEETS 6 & 7, 8A & 8C
FOR REINFORCEMENT
TYPE, LENGTH & LOCATION

40 CORNER EXP. JOINT - ANCHOR TYPE H
37 SECTION

FLORIDA APPROVAL:
FL#28879.4

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

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NO	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

ITEM #	DESCRIPTION	MATERIAL	GLASSWALL PARTS #	MANUF. / REMARKS	ITEM #	DESCRIPTION	MATERIAL	GLASSWALL PARTS #	MANUF. / REMARKS
					56	5/8" +/- 1/8" SHIM	-	-	
02	MALE MULLION	6063-T6	7000-102R		57	1 7/16" X 1/2" X 1/8" THK. ANGLE	ALUM.	-	
03	ANTI-BUCKLING CLIP	6063-T6	7000-103	4" LG. @ 12" O.C. MAX. TYP. CONT. AT CORNER MULLION	58	SPONGE BUFFER	-	-	
04	EXTENDED BEAUTY CAP	6063-T6	7000-104		59	7/16" CW SPACER	ALUM.	W5250-301	LINGEMANN GmbH
					60	STACK JOINT FRONT GASKET	-	065-011	
06	BEAUTY CAP	6063-T6	7000-107		61	1" x 1/4" SETTING BLOCK	-	-	
07	FEMALE MULLION BUTT GLAZED	6063-T6	7000-108		62	8" X 12" X 1/2" THK. TUBE	A36 STEEL	-	
08	MALE MULLION BUTT GLAZED	6063-T6	7000-109		63	1" X 1" X 1/16" THK. ANGLE	ALUM.	-	
09	PRESSURE PLATE	6063-T6	7000-110		64	GASKET .25" PUSH IN	SILICONE	WW7000-NE003	
10	HORIZONTAL AT STACK JOINT	6063-T6	7000-112		65	1 5/8" X 3 1/4" X 1/8" THK. TUBE	ALUMINUM	-	
11	CHICKEN HEAD	6063-T6	7000-113R		66	TUBE	ALUMINUM	-	
12	STACK JOINT FIN	6063-T6	7000-114R	CONT.	67	MULL EXTERIOR VERT JOINT FILLER	-	065-015	
13	EXPANSION SILL	6063-T6	7000-115R		68	CHICKEN HEAD SPACER	-	065-008	4" LG. @ 12" O.C. MAX. TYP. AT EACH FRAME SILL ADAPTOR
14	HEAD SILL COVER	6063-T6	7000-116		69	MULLION AIR BARRIER	EPDM	065-009	
15	HEAD/SILL	6063-T6	7000-117		70	MULLION INTERIOR VERTICAL AIR SEAL	EPDM	065-019	
16	EXTERIOR CORNER COVER	6063-T6	7000-118R		71	PVC PART SOLID	PVC	WW7000-NE006	DUROMETER 60/70 $\pm$ 5 SHORE A
17	EXTERIOR CORNER MALE MULLION	6063-T6	7000-120		72	PVC PART	PVC	WW7000-NE005	DUROMETER 60/70 $\pm$ 5 SHORE A
18	INTERIOR CORNER FIN	6063-T6	7000-121		73	BULB GASKET 3/8" SLIDE		WW7000-NE007	DUROMETER 60/70 $\pm$ 5 SHORE A
19	EXTERIOR CORNER FEMALE MULLION	6063-T6	7000-122		74	EXPANSION JOINT GASKET		WW7000-NE001	DUROMETER 60/70 $\pm$ 5 SHORE A
20	INTERIOR CORNER FIN	6063-T6	7000-118RR		75	1 7/8" x 1/4" SETTING BLOCK	EPDM		
21	INTERIOR CORNER FEMALE MULLION	6063-T6	7000-124		76	5/16-12 SELF TAPPING SCREW SAE GRADE 5			SCREWS SPACED 3 .75" O.C.
22	INTERIOR CORNER MALE MULLION	6063-T6	7000-125		77	ST-1: 3/4" THK. REINFORCEMENT	A50 STEEL		Fy = 50 ksi
23	CHICKEN HEAD SUB-SILL	6063-T6	7000-163		78	ST-2: 1/4" THK. REINFORCEMENT	A36 STEEL		Fy = 36 ksi
24	HEAD TOP COVER	6063-T6	7000-463R		79	ST-4: 1/2" THK. REINFORCEMENT	A50 STEEL		Fy = 50 ksi
25	HORIZONTAL MULLION	6063-T6	7000-128R		80	#12 X 1" PHILLIPS PAN HEAD SMS	STAINLESS STEEL		
26	HORIZONTAL BUTT GLAZED	6063-T6	7000-129		81	1/2 - 13 SAE GRADE 5 (F.H. OR HEXAGONAL)	STEEL		Fy = 92 ksi Fu = 120 ksi
27	HORIZONTAL BUTT GLAZED FIN	6063-T6	7000-130R	6" LG. (2) AT EA. PANEL AT 1/4 POINT	82	5/8 - 11 SAE GRADE 5 (F.H. OR HEXAGONAL)	STEEL		Fy = 92 ksi Fu = 120 ksi
28	CRESCENT FEMALE MULLION	6063-T6	7000-131		83	1/4" X 3/4" LG. SMS	STAINLESS STEEL		Fy = 65 ksi Fu = 100 ksi
29	CRESCENT MALE MULLION	6063-T6	7000-132		84	7/16 - 14 X 1" LG. SAE GRADE 5	STEEL		Fy = 92 ksi Fu = 120 ksi
30	HEAD BUTT GLAZED	6063-T6	7000-133		85	ALUMINUM PANEL - 18 GA MIN.	3003-H14		
31	STACK JOINT COVER	6063-T6	7000-134		86	CRESCENT FEMALE MULLION	6063-T6	7000-464	
32	135 MULLION ANCHOR FIST	6063-T6	7000-457R		87	CRESCENT MALE MULLION	6063-T6	7000-465	
33	ALUMINUM SPLICE- AS-3	6063-T6			88	BACK CORNER MALE 86.9°	6063-T6	7000-452	
34	SILL COVER BUNGALOW	6063-T6	7000-137		89	FRONT CORNER MALE 86.9°	6063-T6	7000-453	
35	SLAB ANCHOR	6061-T6	7000-139		90	BACK CORNER FEMALE 86.9°	6063-T6	7000-454	
35A	CORNER SLAB ANCHOR	6061-T6	7000-139A		91	FRONT CORNER FEMALE 86.9°	6063-T6	7000-455	
36	SERRATE WASHER	6061-T6	7000-140		92	BACK CORNER MALE 94.4°	6063-T6	7000-458	
37	MULLION ANCHOR HOOK	6061-T6	7000-141		93	FRONT CORNER MALE 94.4°	6063-T6	7000-459	
38	MULLION ANCHOR FIST	6061-T6	7000-142		94	BACK CORNER FEMALE 94.4°	6063-T6	7000-460	
39	ALUMINUM SPLI CE - AS-1	6061-T6	7000-143		95	FRONT CORNER FEMALE 94.4°	6063-T6	7000-461	
40	SHEAR ANCHOR PLATE	6061-T6	7000-144		96	OUTSIDE CORNER 86.9° ANCHOR FIST	6063-T5	7000-451	
41	INSIDE CORNER ANCHOR FIST	6061-T6	7000-145		97	OUTSIDE CORNER 94.4° ANCHOR FIST	6063-T5	7000-457	
42	OUTSIDE CORNER ANCHOR FIST	6061-T6	7000-146		98	EXTERIOR CORNER 86.9° COVER	6063-T6	7000-456R	
43	RAILING COVER	6063-T6	7000-149R		99	EXTERIOR CORNER 94.40° COVER	6063-T6	7000-462R	
44	HORIZONTAL RAILING	6063-T6	7000-150R		100	ALUMINUM SPLI CE - AS-2	6061-T6	7000-143	
45	# 14 X 11/2" LG. PH. SMS. 18-8 CW SERIES ASSY. SCREW	STAINLESS STEEL	-		101	CHICKEN HEAD TOP COVER	6061-T6	7000-113.1R	
46	STRUCTURAL SILICONE	SILICONE	GE SSG 4600	SEE CHART SHEET 07	102	MALE MULLION BUTT GLAZED	6063-T6	7000-109R	
47	TWO PART STRUCTURAL SILICONE	SILICONE	-		103	FEMALE MULLION BUTT GLAZED	6063-T6	7000-108R	
48	EXTERIOR PRESSURE GASKET	EPDM	W5250-NS02	DUROMETER 70 $\pm$ 5 SHORE A	104	SEAL GASKET	EPDM	W5250-NE02	
49	9/16" LAMINATED GLASS	GLASS	-						
50	EXP. JT. GLASS SHELF ISOLATOR	RIGID VINYL	065-012						
51	HEAD TOP COVER	6063-T6	7000-463R						
54	THERMAL ISOLATOR	RIGID VINYL	065-018						
55	MULLION SEAL GASKET	EPDM	W5250-NE01						

FLORIDA APPROVAL:
FL#28879.4

YIPING WANG, P.E.
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September 28th, 2023

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DATE09.19.2023

SCALEAS SHOWN

DRAWNJames

PROJECTMCY19–010

DRAWING NO.
AD19–07A

38 OF 38

REVISIONS

NO	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

MCY

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