

TECNOGLASS, LLC
SERIE 7000 ALUMINUM CURTAIN WALL
WITH LAMINATED GLASS OPTION
SMALL MISSILE IMPACT

CURTAIN WALL SYSTEM RATED FOR SMALL 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).

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

THIS SYSTEM MAY BE USED IN CONJUNCTION WITH FBC APPROVED SMALL 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 ALL 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	- CENTER LINE
E.J. - EXPANSION JOINT	H.S. - HEAT STRENGTHENED
F.H. - FRAME HEIGHT	SSG - STRUCTURAL SILICONE GLAZED
F.W. - FRAME WIDTH	TEMP. - TEMPERED
LG. - LONG	O.C. - ON CENTER
STL. - STEEL	▲ - DEAD LOAD+WIND LOAD ANCHOR
ALUM. - ALUMINUM	△ - WIND LOAD ANCHOR
MULL. - MULLION	I.S. - INSIDE
HORIZ. - HORIZONTAL	WL - WIND LOAD
W/ - WITH	DL - DEAD LOAD
W/O - WITHOUT	Pd - DESIGN LOAD (PSF)
S.S. - STAINLESS STEEL	
M.S. - MULLION SPACING	
S.W. -SILOCONE WIDTH	
G.B. - GLASS BITE	
	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#28879.3

YIPING WANG, P.E. FLORIDA REGISTRATION CE #55983 C.A.N. #8677	
September 19th, 2023	

REVISIONS	
NO.	DATE
R2	09.19.2023
	FBC 2023

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DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08A

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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-2 -9/16" LAMINATED GLASS	
1/4" H.S. GLASS	
0.035" SENTRYGLAS INTERLAYER	
BY KURARAY AMERICA, INC	
1/4" H.S. GLASS	
GL-3 -9/16" LAMINATED GLASS	
1/4" TEMPERED GLASS	
0.060" SAFLEX PVB INTERLAYER	
BY EASTMAN CHEMICAL, CO	
1/4" TEMPERED GLASS	
GL-4 -9/16" LAMINATED GLASS	
1/4" H.S. GLASS	
0.060" SAFLEX PVB INTERLAYER	
BY EASTMAN CHEMICAL, CO	
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)	
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 CURRENT FLORIDA BUILDING CODE INCLUDING ADAPTED STANDARDS AS APPLICABLE.	
EACH MEMBER SHALL BE CONTINUOUS UNLESS OTHERWISE SPECIFIED.	

FLORIDA APPROVAL:
FL#28879.3

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FLORIDA REGISTRATION
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C.A.N. 86677

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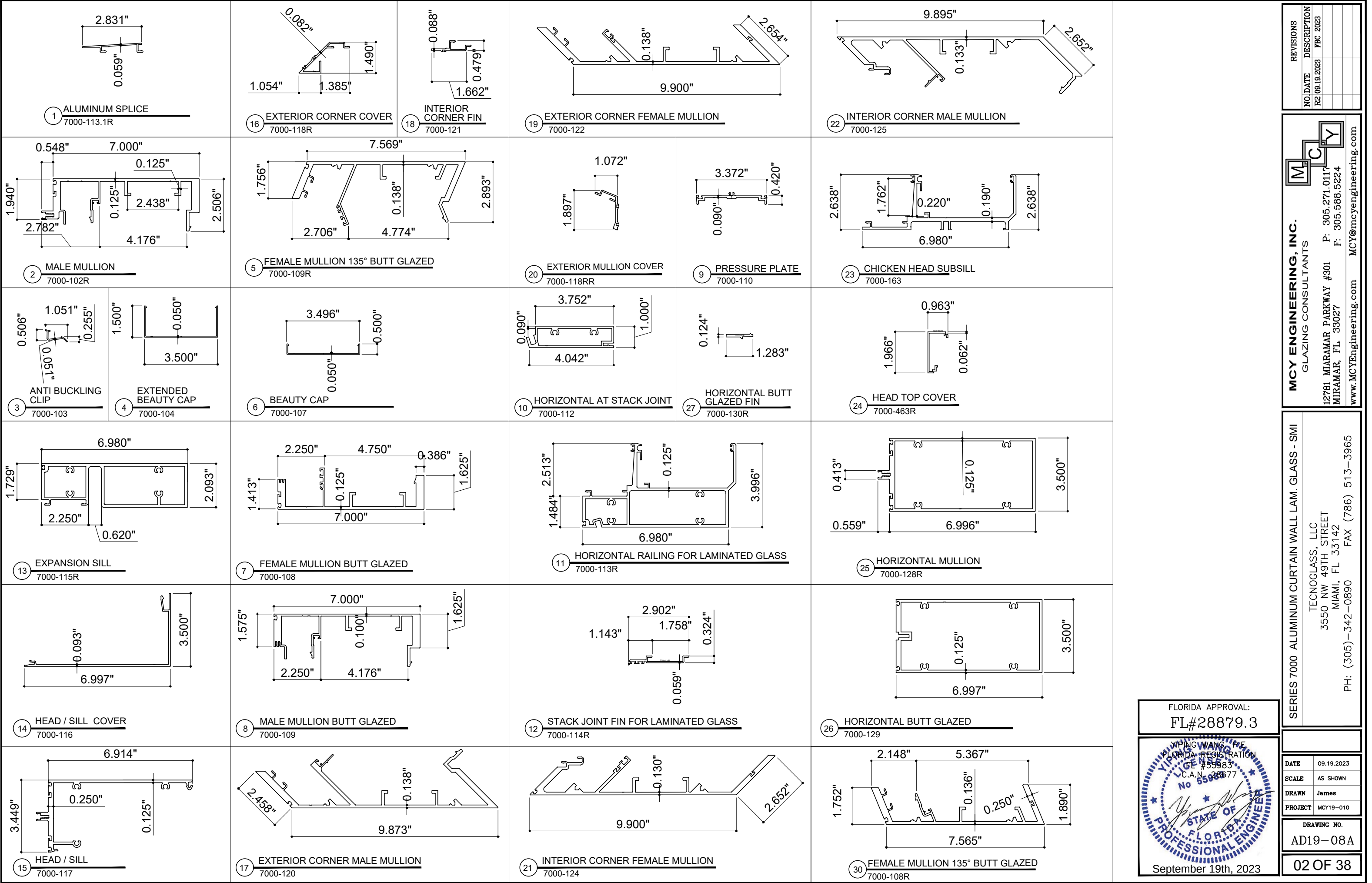
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29 **CRESCENT MALE MULLION**
7000-132

35 **SLAB ANCHOR**
7000-139

41 **INSIDE CORNER ANCHOR FIST**
7000-145

77 **ST-1 (A50)**
3/4" STEEL REINFORCEMENT

30 **HEAD BUTT GLAZED**
7000-133

36 **SERRATE WASHER**
7000-140

42 **OUTSIDE CORNER ANCHOR FIST**
7000-146

78 **ST-2 (A36)**
1/4" STEEL REINFORCEMENT

31 **STACK JOINT COVER**
7000-134

37 **MULLION ANCHOR HOOK**
7000-141

32 **135° MULLION ANCHOR FIST**
7000-457R

33 **SPLICE AS-3**
7000-143R FOR 135° MULLION

34 **SILL COVER BUNGALOW**
7000-137

38 **MULLION ANCHOR FIST**
7000-142

39 **SPLICE AS-1**
7000-143

79 **ST-4 (A50)**
1/2" STEEL REINFORCEMENT

40 **SHEAR ANCHOR PLATE**

43 **RAILING COVER**
7000-149R

44 **HORIZONTAL RAILING**
7000-150R

28 **CRESCENT FEMALE MULLION**
7000-131

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Professional Engineer
STATE OF FLORIDA
No 55983

September 19th, 2023

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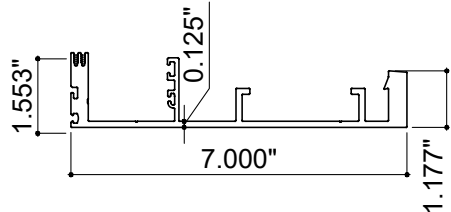
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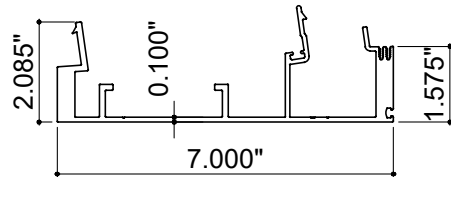
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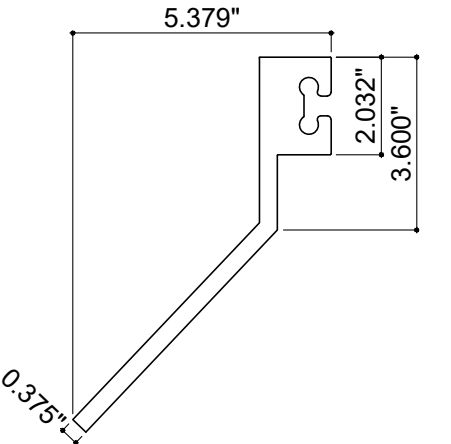
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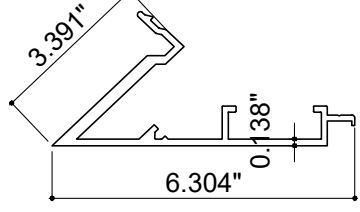
86 **CRESCENT FEMALE MULLION**
7000-464



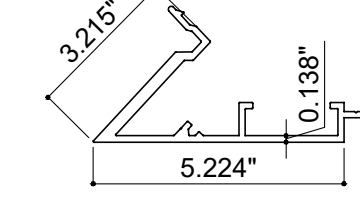
87 **CRESCENT MALE MULLION**
7000-465



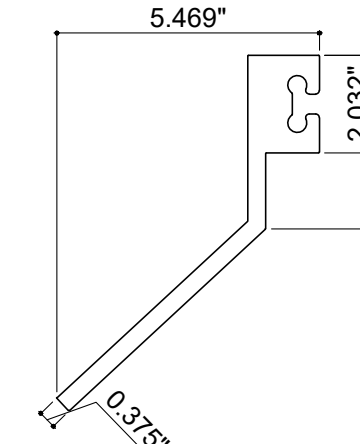
96 **OUTSIDE CORNER ANCHOR FIST**
7000-451 86.90°



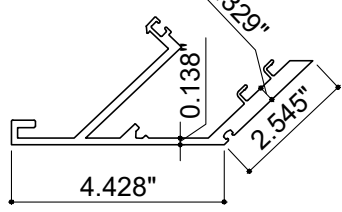
88 **BACK CORNER MALE 86.9°**
7000-452



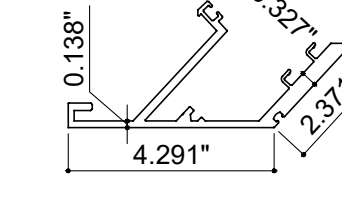
92 **BACK CORNER MALE 94.4°**
7000-458



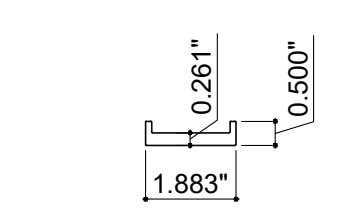
97 **OUTSIDE CORNER ANCHOR FIST**
7000-457 94.40°



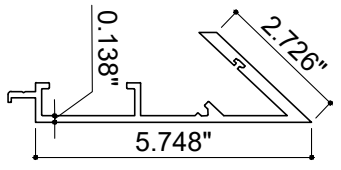
89 **FRONT CORNER MALE 86.9°**
7000-453



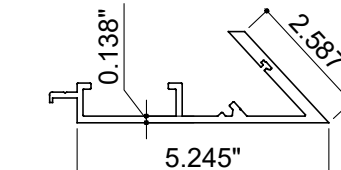
93 **FRONT CORNER MALE 94.4°**
7000-459



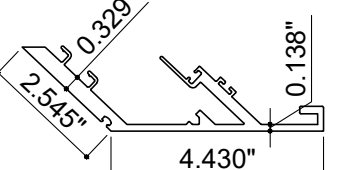
100 **ALUMINUM SPLICE AS-2**
7000-143 FOR 86.9° & 94.40° MULLION



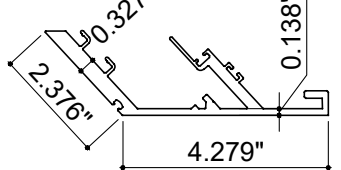
90 **BACK CORNER FEMALE 86.9°**
7000-454



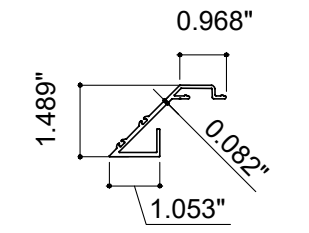
94 **BACK CORNER FEMALE 94.4°**
7000-460



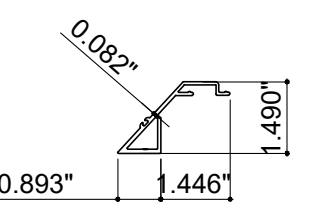
91 **FRONT CORNER FEMALE 86.9°**
7000-455



95 **FRONT CORNER FEMALE 94.4°**
7000-461

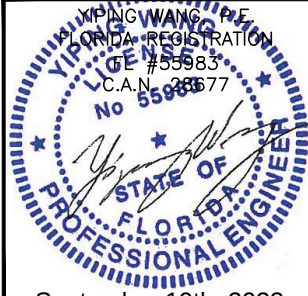


98 **EXTERIOR CORNER COVER**
7000-456R 86.90°



99 **EXTERIOR CORNER COVER**
7000-462R 94.40°

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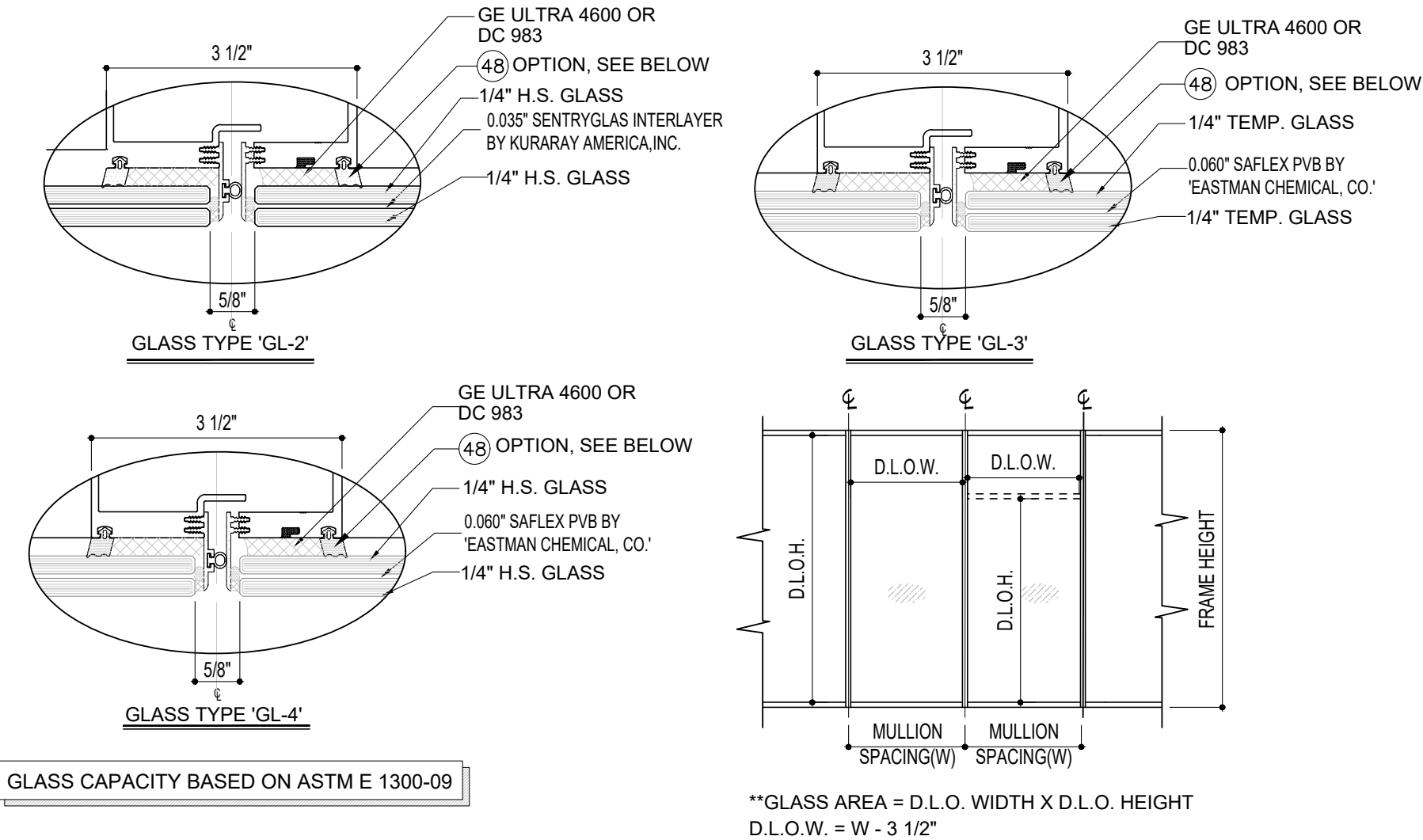
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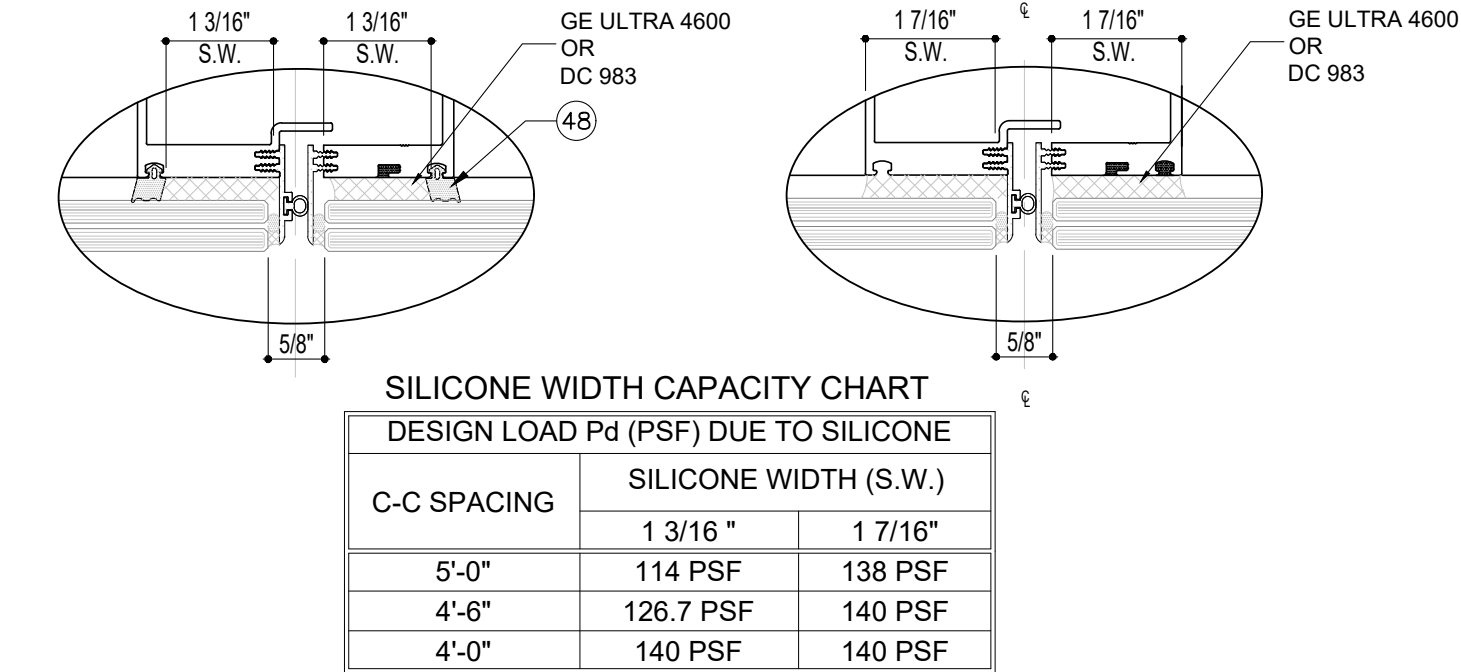
02B OF 38

DLO WIDHT	DLO HEIGHT	DESIGN LOAD (PSF)		
		GL-2	GL-3	GL-4
(in)	(in)			
44.5	96	140.0	140.0	132.0
50.5		140.0	140.0	132.0
56.5		140.0	140.0	124.0
44.5	102	140.0	140.0	132.0
50.5		140.0	140.0	127.0
56.5		140.0	140.0	116.0
44.5	108	140.0	140.0	132.0
50.5		140.0	140.0	121.0
56.5		140.0	140.0	109.0
44.5	114	140.0	140.0	131.0
50.5		140.0	140.0	116.0
56.5		135.0	140.0	103.0
44.5	120	140.0	140.0	126.0
50.5		140.0	140.0	111.0
56.5		130.0	140.0	99.2
38.5	126	140.0	140.0	132.0
41.5		140.0	140.0	132.0
44.5		140.0	140.0	123.0
47.5		140.0	140.0	115.0
50.5		140.0	140.0	107.0
53.5	132	133.0	140.0	101.0
38.5		140.0	140.0	132.0
41.5		140.0	140.0	132.0
44.5		140.0	140.0	121.0
47.5		140.0	140.0	112.0
50.5	138	140.0	140.0	104.0
53.5		129.0	140.0	-
32.5		140.0	140.0	132.0
35.5		140.0	140.0	132.0
38.5		140.0	140.0	132.0
41.5	144	140.0	140.0	118.0
44.5		140.0	140.0	109.0
47.5		140.0	140.0	101.0
50.5		139.0	140.0	94.6
32.5		140.0	140.0	132.0
35.5	144	140.0	140.0	132.0
38.5		140.0	140.0	125.0
41.5		140.0	140.0	125.0
44.5	144	140.0	140.0	117.0
49		140.0	140.0	-

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



2. SILICONE WIDTH OPTIONS



3. LOWEST VALUE RESULTING FROM ABOVE GOVERNS GLASS CAPACITIES.

FLORIDA APPROVAL:
FL#28879.3

September 19th, 2023

REVISIONS

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GLAZING CONSULTANTS
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MIRAMAR, FL 33027
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www.MCYEngineering.com
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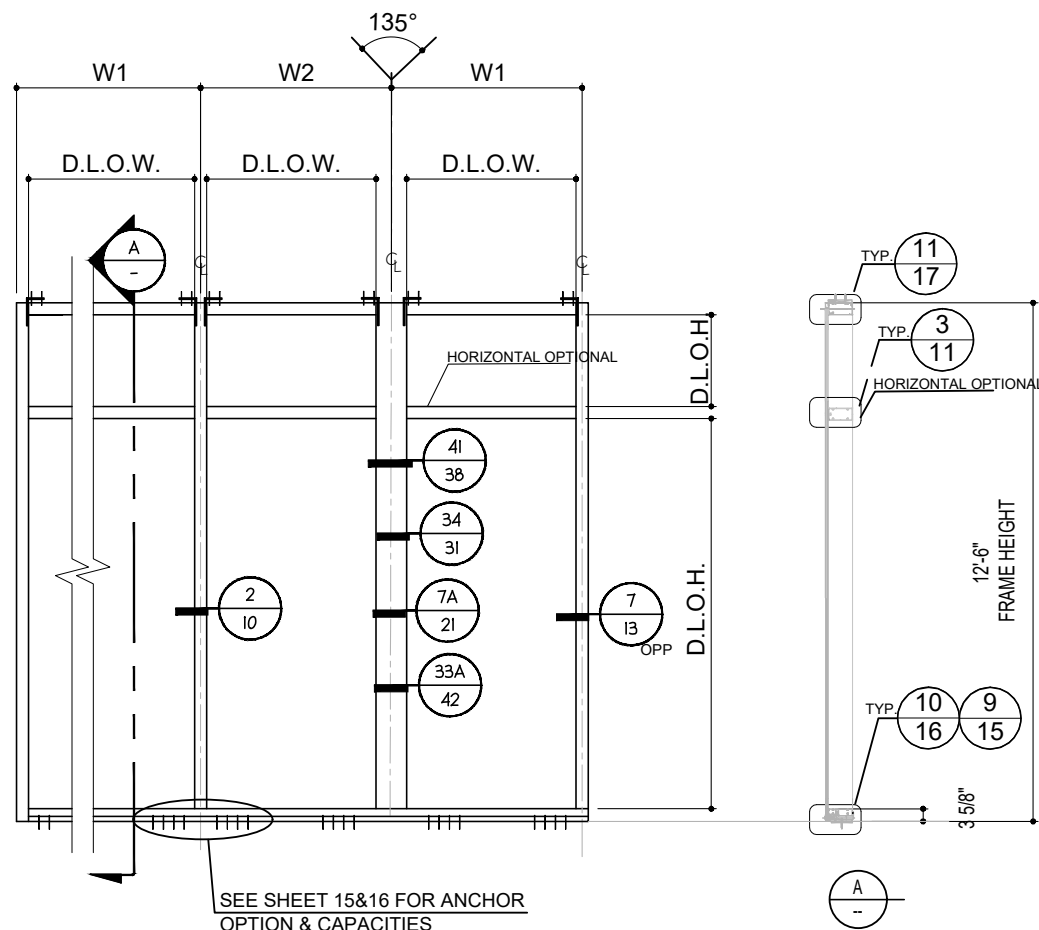
SERIES 7000 ALUMINUM CURTAIN WALL LAM. GLASS - SMI

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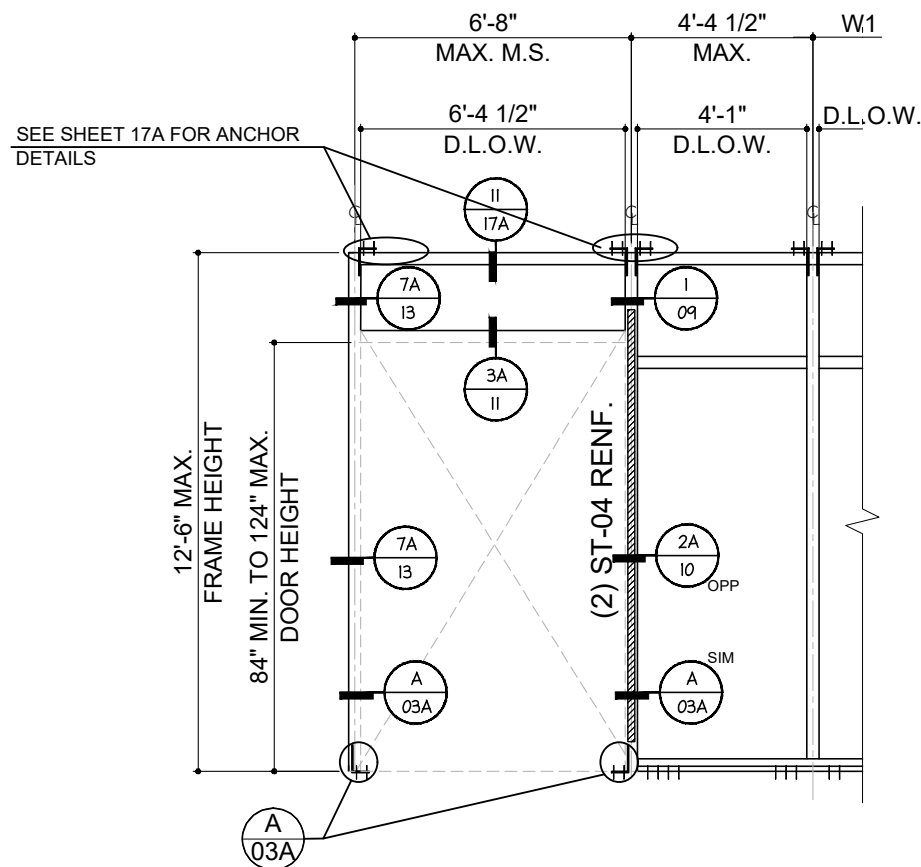
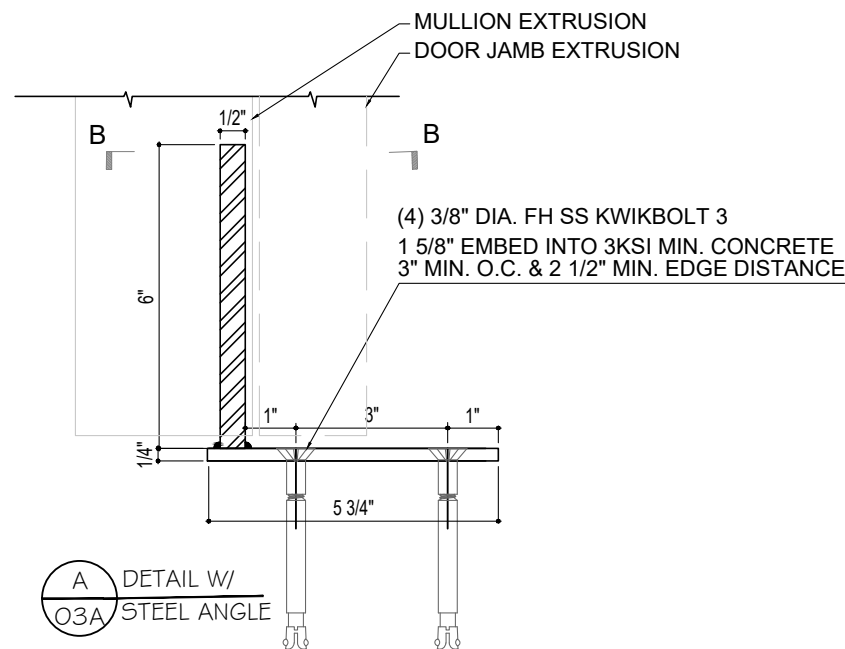
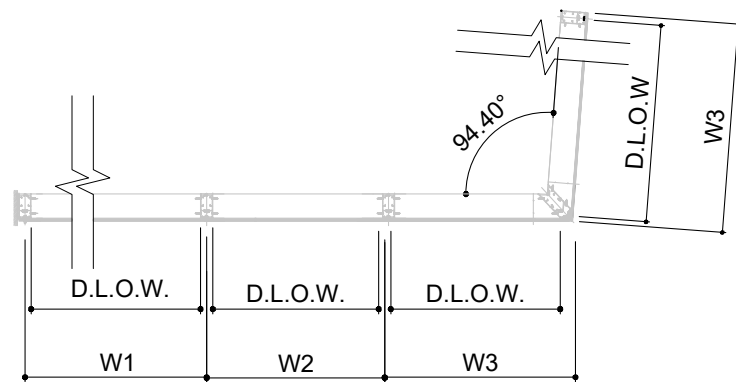
DATE	09.19.2023
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DRAWN	James
PROJECT	MCY19-010

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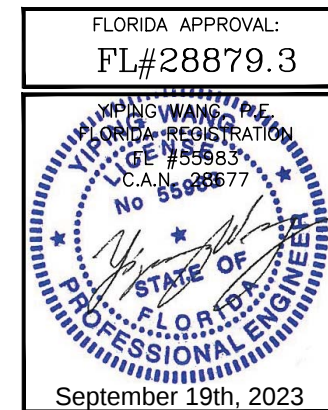
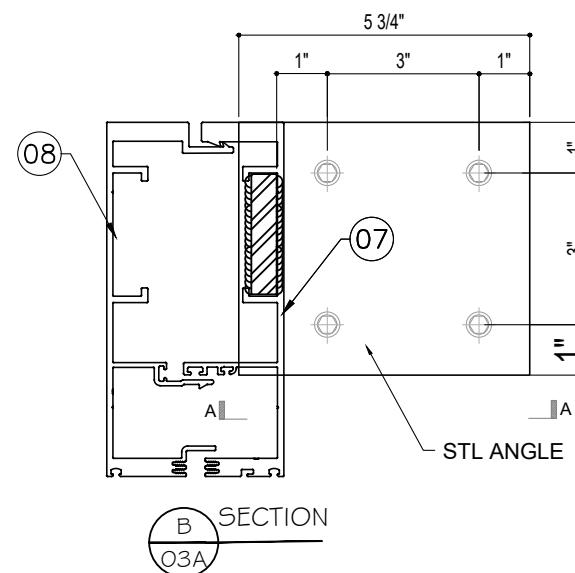
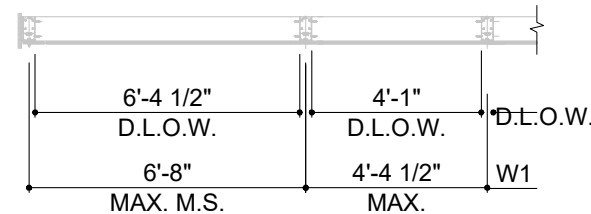


TYPICAL SINGLE SPAN ELEVATION - WINDOW WALL
SEE SHEET 03B FOR MULLION OPTIONS AND CAPACITIES



SINGLE SPAN ELEVATION - WINDOW WALL W/ DOOR

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



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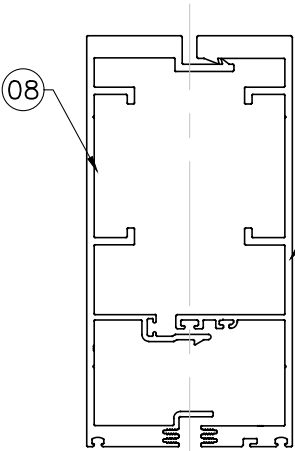
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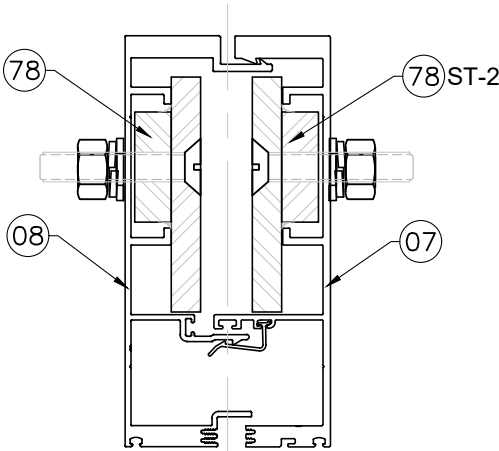
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DRAWING NO.	AD19-08A
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SINGLE SPAN- DESIGN LOAD CAPACITY							
HEIGHT	SPACING	M1		M2,J1		CM3	
in.	in.	(+) psf.	(-) psf.	(+) psf.	(-) psf.	(+) psf.	(-) psf.
120	42	100	125	100	132	100	132
	48	100	125	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
	60	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
	60	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
	60	100	125	100	132	100	132
150	42	100	125	100	132	100	132
	48	100	124	100	132	100	132
	51.5	100	115	100	132	100	132
	60	100	125	100	132	100	132

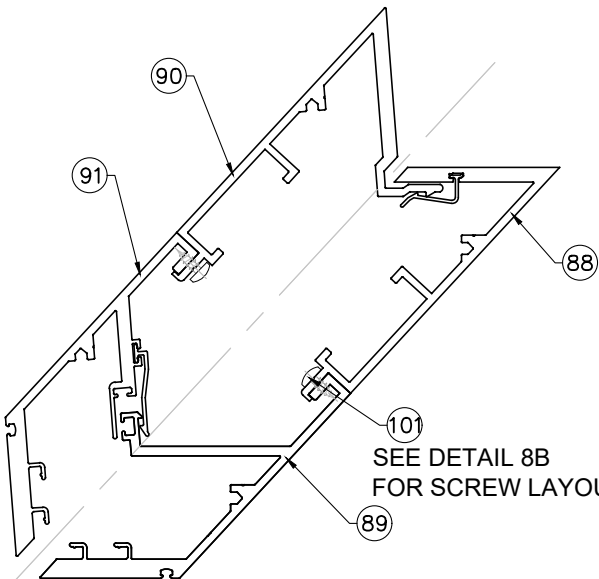


MULLION (M1)



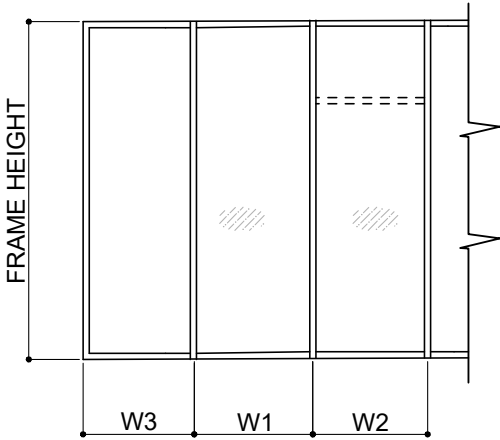
MULLION (M2) (J1)

SEE MULLION SECTION PROPERTIES ON SHEET 8.



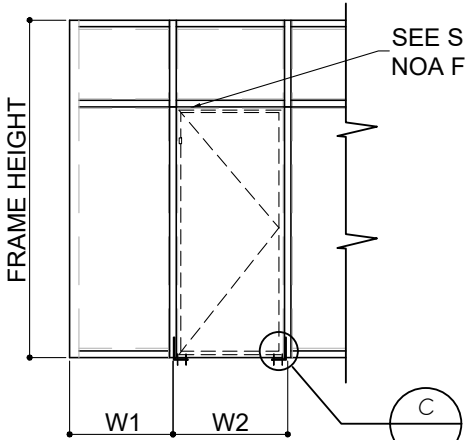
MULLION (CM3) 94.40° CORNER

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

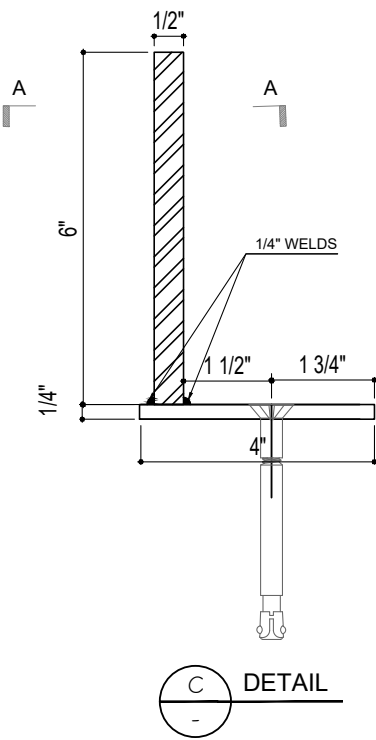


WIDTH (W) = $\frac{W1+W2}{2}$ OR $\frac{W3+W1}{2}$
AT MULLION

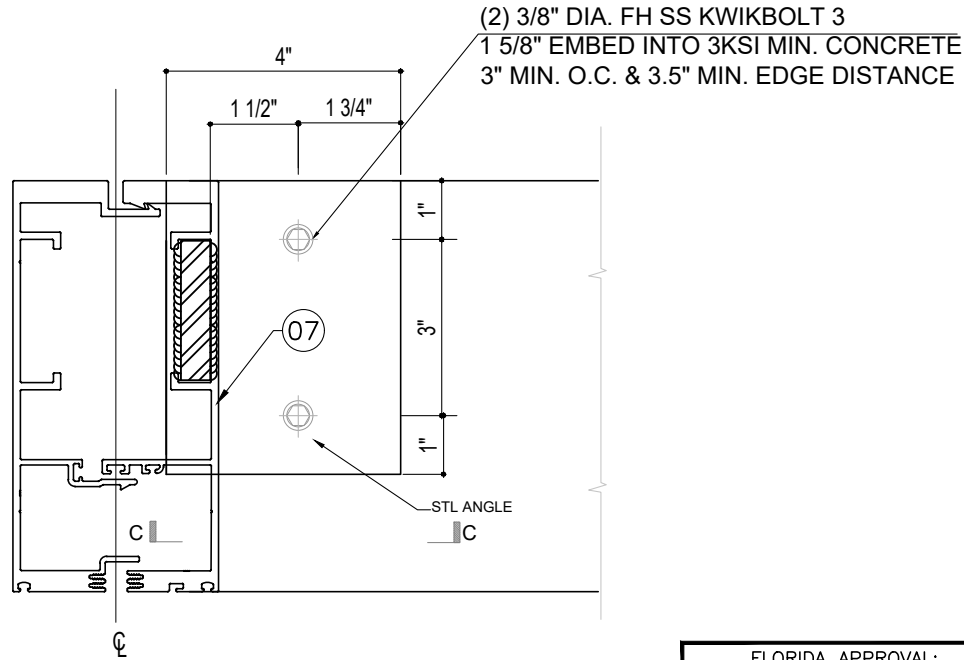
WIDTH (W) = W3
AT JAMB



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



DETAIL



SECTION VIEW
STEEL CLIP
ATTACHMENT AT DOOR SIDE

FLORIDA APPROVAL:
FL#28879.3

YIPING WANG
FLORIDA REGISTRATION
CE #55983
C.A.N. #8677

September 19th, 2023

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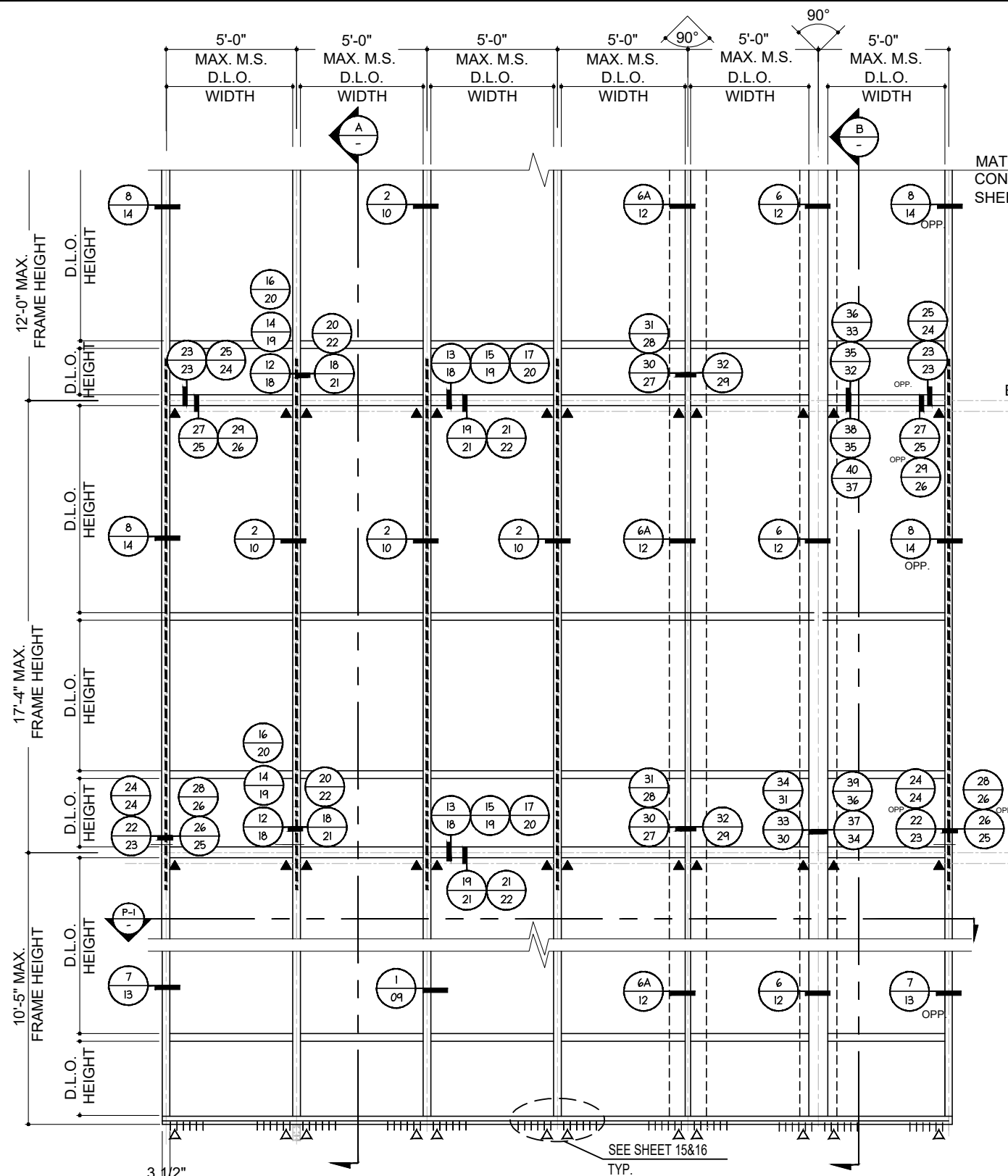
SERIES 7000 ALUMINUM CURTAIN WALL LAM. GLASS - SMI

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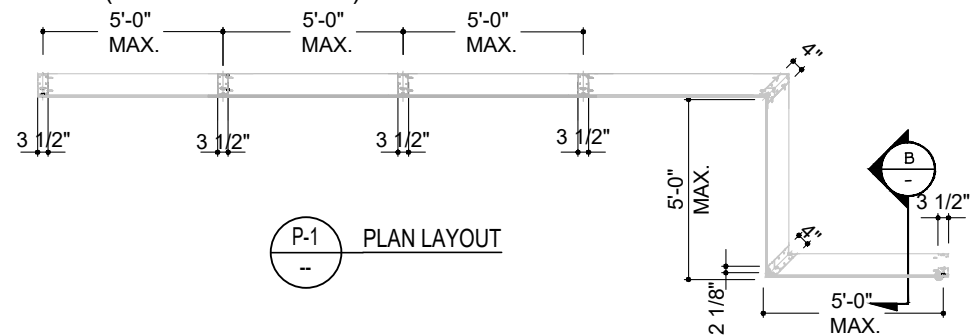
DATE	09.19.2023
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PROJECT	MCY19-010

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AD19-08A

03B OF 38



MULTIPLE SPAN ELEVATION - CURTAIN WALL
(THREE SPAN MIN.)



DESIGN LOAD V.S. MULLION
SPAN AND REINFORCEMENT
REFER TO SHEET 06,07,8A & 8B.

SECTION A

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

SECTION B

FLORIDA APPROVAL:
FL#28879.3

YIPANG WANG, P.E.
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#55983
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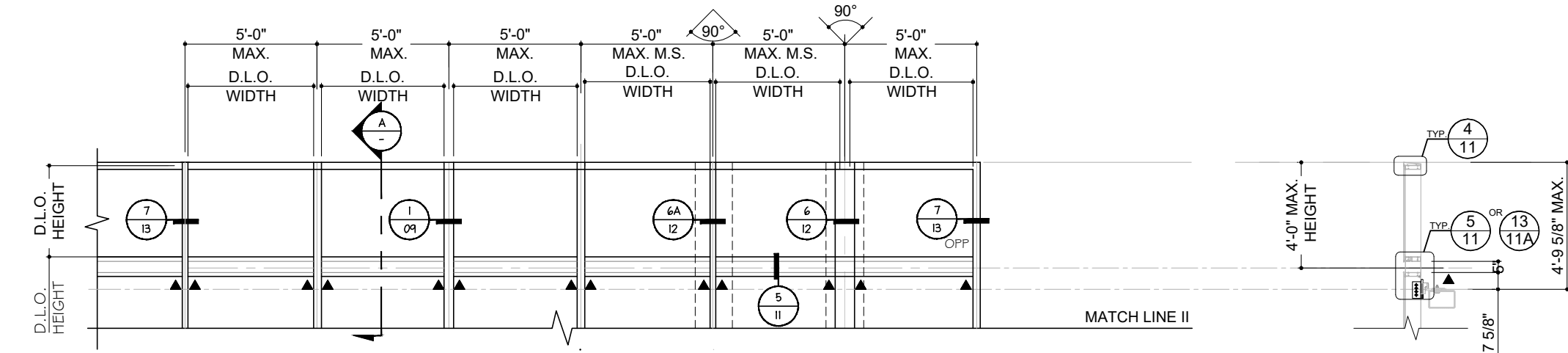
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SERIES 7000 ALUMINUM CURTAIN WALL LAM. GLASS - SMI

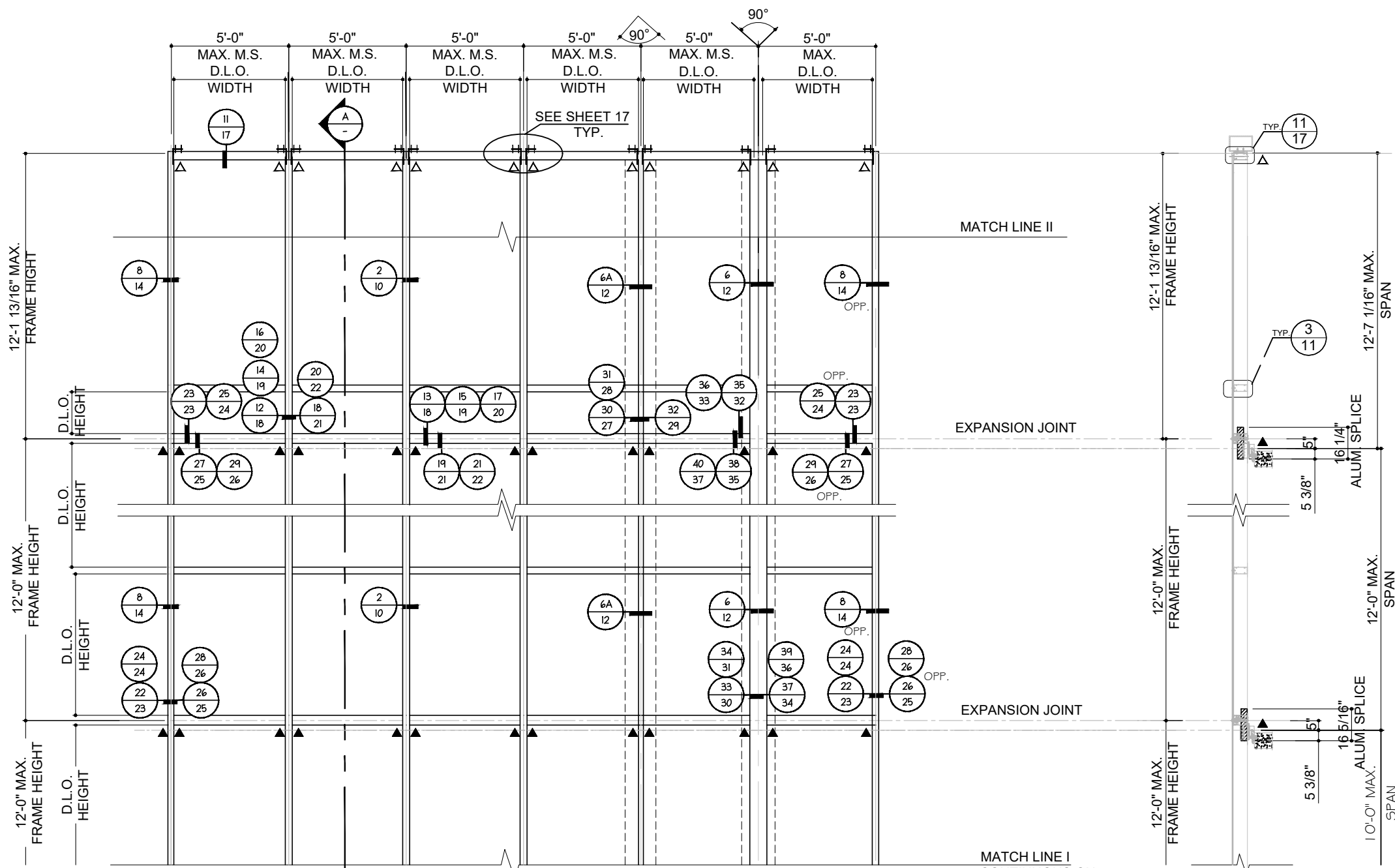
TECNOGLASS, LLC
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PROJECT	MCY19-010
DRAWING NO.	AD19-08A
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TOP CURTAIN WALL CANTILEVER OPTION



MULTIPLE SPAN ELEVATION - CURTAIN WALL

▲ - DEADLOAD+WINDLOAD ANCHOR
△ - WINDLOAD ANCHOR

FLORIDA APPROVAL:
FL#28879.3

YIPANG WANG, P.E.
FLORIDA REGISTRATION
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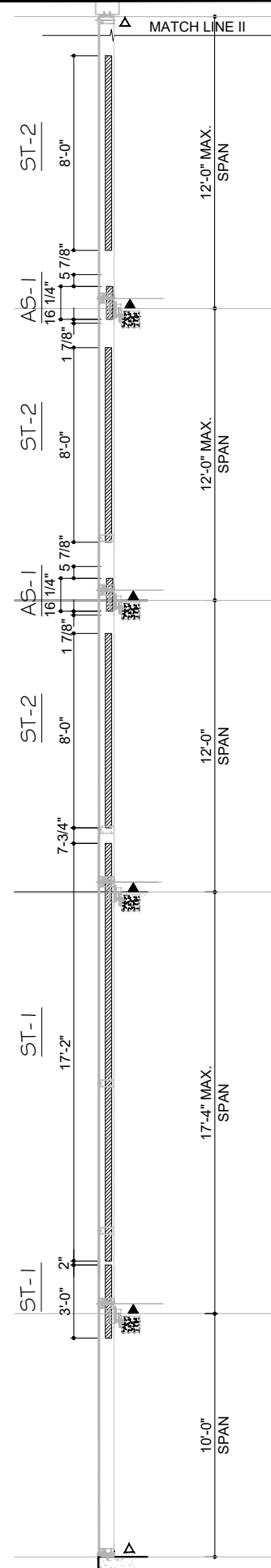
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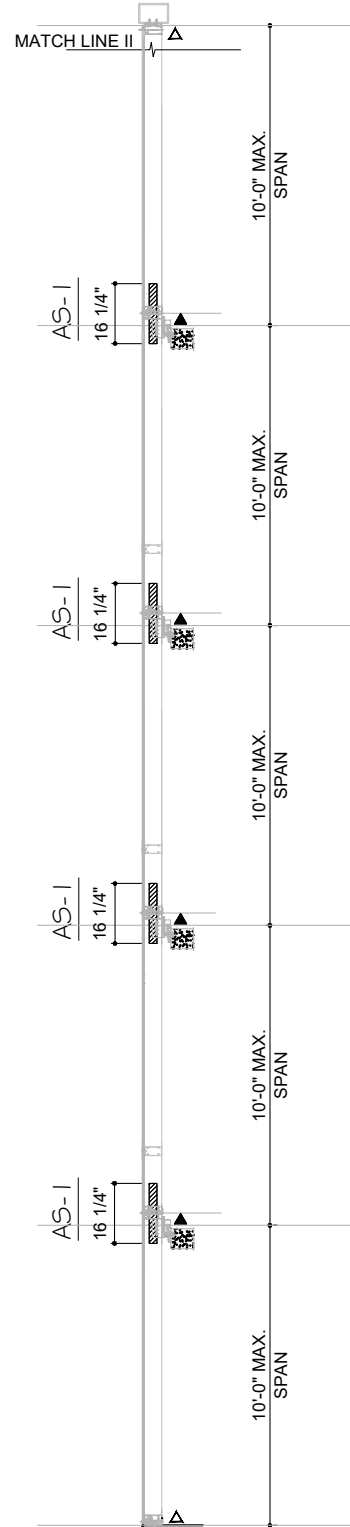
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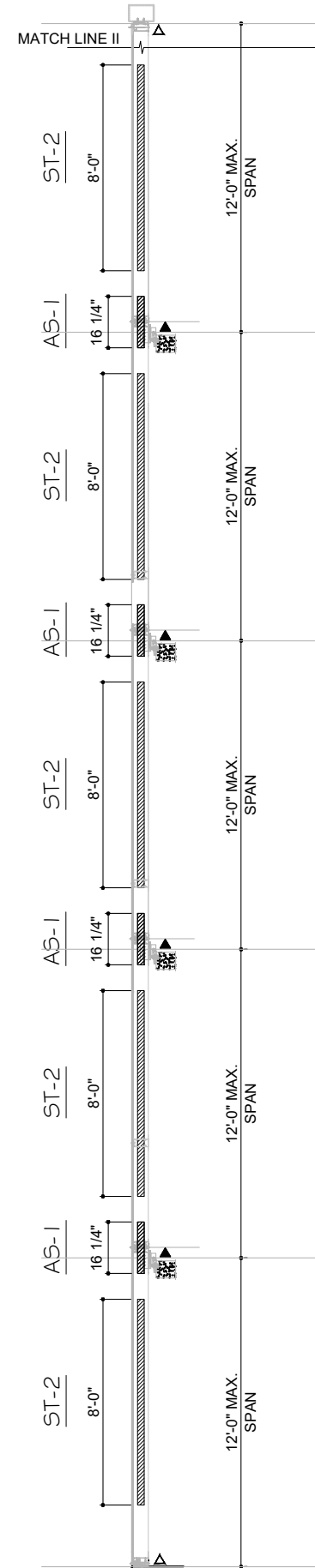
CASE 1

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



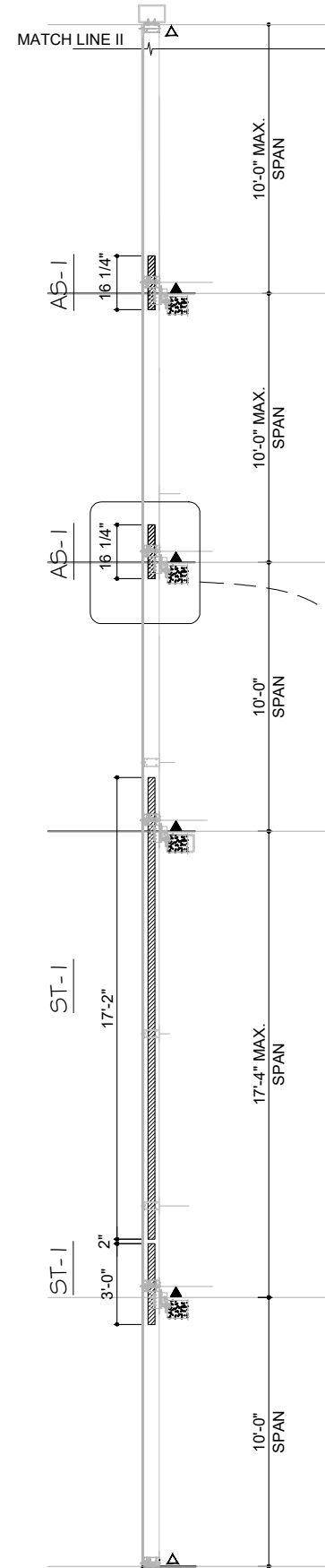
CASE 2

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



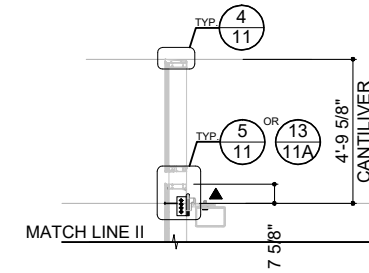
CASE 3

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



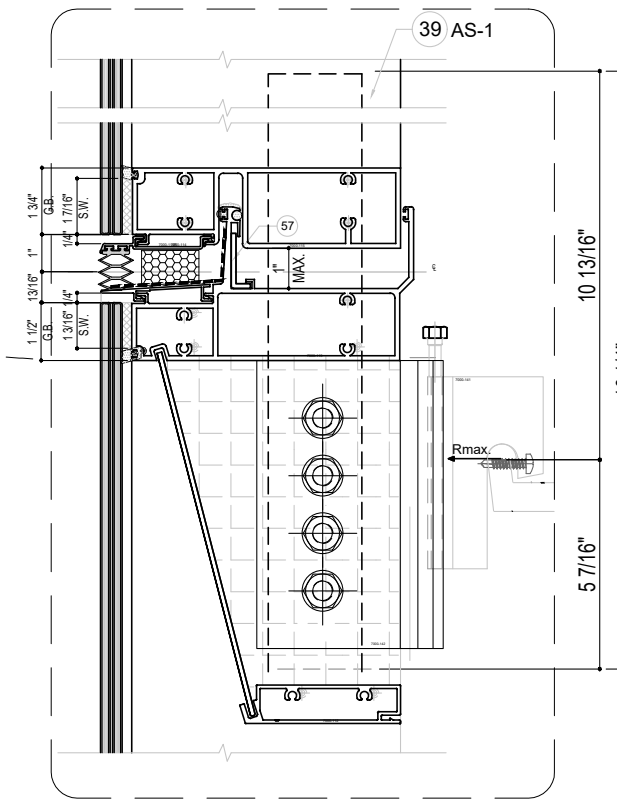
CASE 4

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



CASE 1 THRU CASE 6
W/ CANTILEVER

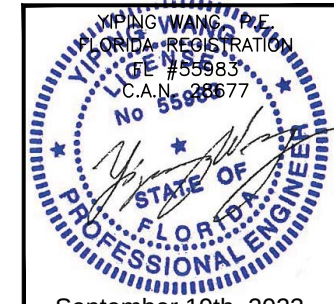
DESIGN LOAD SAME AS CONDITION
W/O CANTILEVER



SPLICE DETAIL TYPICAL
AS-1

- ▲ - DEADLOAD+WINDLOAD ANCHOR
△ - WINDLOAD ANCHOR

FLORIDA APPROVAL:
FL#28879.3



September 19th, 2023

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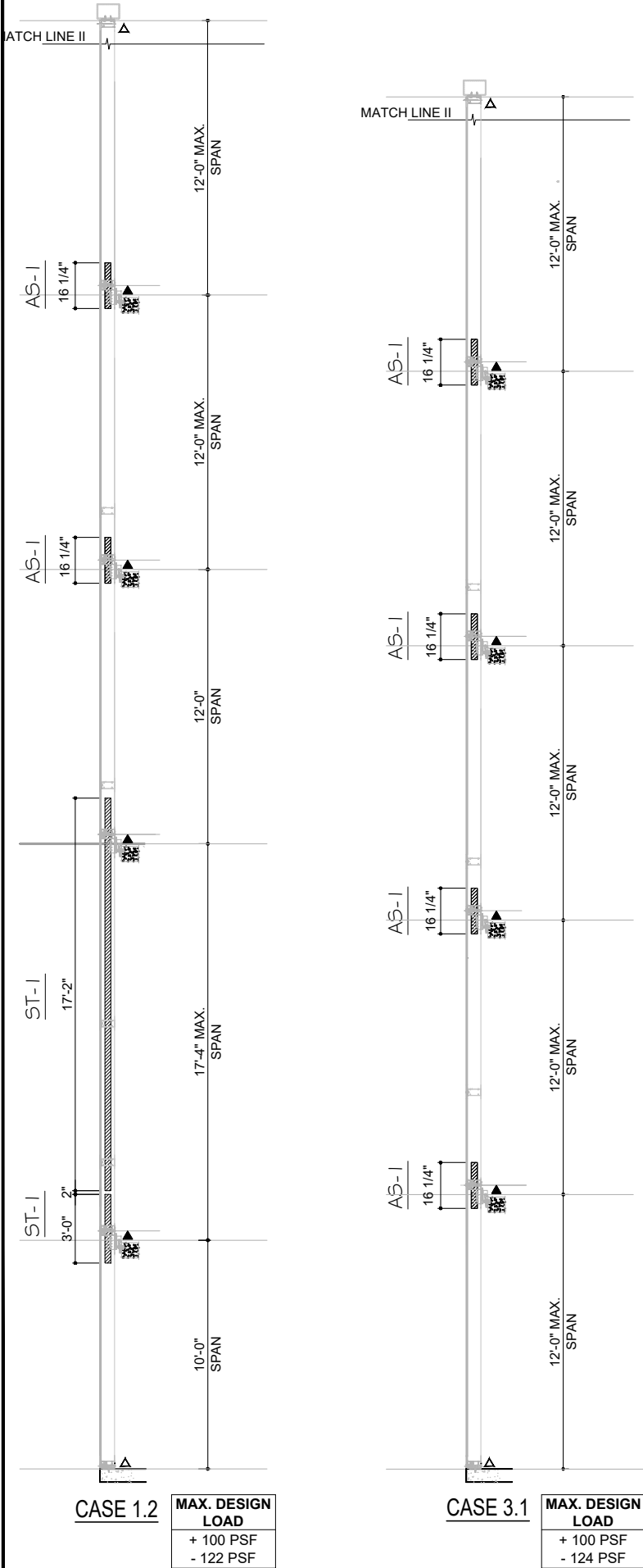
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DRAWING NO.

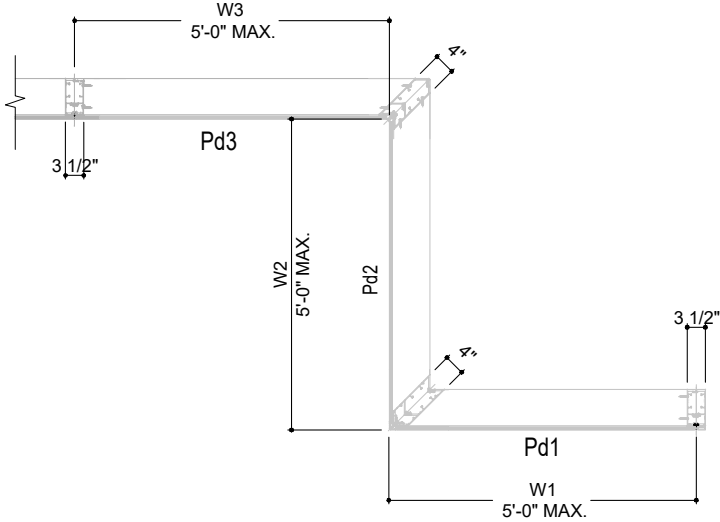
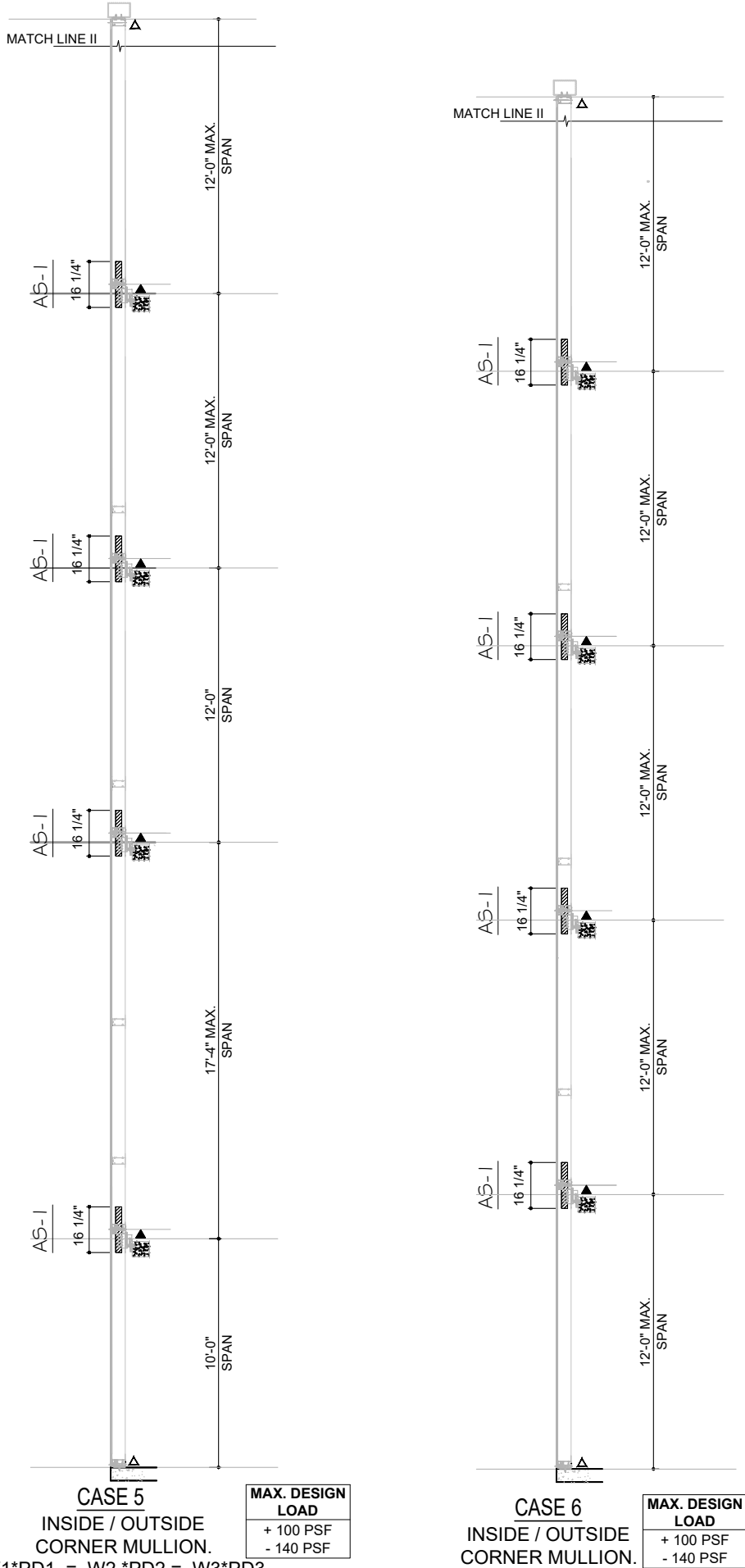
AD19-08A

06 OF 38

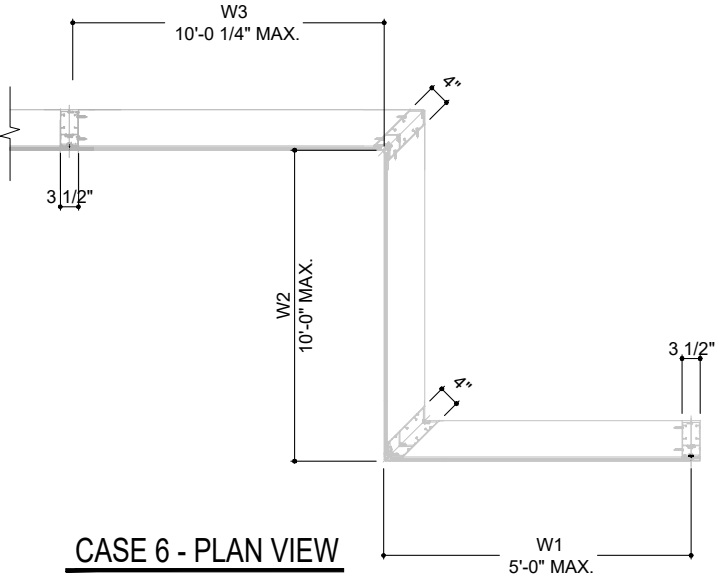
TYP. MULLION/JAMB SECTIONS W/ OR W/O REINFORCEMENT
NOTE: REFER TO SHEET 8 FOR MULLION SECTIONS & PROPERTIES



90° CORNER MULLION SECTION W/ OR W/O REINFORCEMENT
NOTE: REFER TO SHEET 8 FOR MULLION SECTIONS & PROPERTIES



CASE 5 - PLAN VIEW
W1*Pd1 = W2 *Pd2 = W3*Pd3 EQ LOAD
NOTE:
FOR W1*Pd1 ≠ W2 *Pd2 ≠ W3*Pd3
TO BE CHECKED SEPARATELY BY DESIGNATED ENGINEER
ON JOB CONDITION



CASE 6 - PLAN VIEW

▲ - DEADLOAD+WINDLOAD ANCHOR
△ - WINDLOAD ANCHOR

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AD19-08A

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STRUCTURAL BUTT GLAZED
STRAIGHT MULLION

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

MULLION W/O REINF.			MULLION W/ ST-1			MULLION W/ ST-2			MULLION 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	
2 * ST-1			9.2210	4.3132	2 * ST-2			3.7440	1.6600	2 * ST-4		
TOTAL Ix Al + Ix St*(2.9)			60.1585	--	TOTAL Ix Al + Ix St*(2.9)			44.2752	--	TOTAL Ix Al + Ix St*(2.9)		

STRUCTURAL BUTT GLAZED
CURVED MULLION

179.59° MIN.

05 06

	Ix in^4	Sx in^3
ALUM. (7000-131 + 7000-109)	34.7709	9.4261

179.59° MIN.

77 05 06

	Ix in^4	Sx in^3
ALUM. (7000-131 + 7000-109)	34.7709	9.4261
2 * ST-1	9.2210	4.3132
TOTAL Ix Al + Ix St*(2.9)	61.5089	--

179.59° MIN.

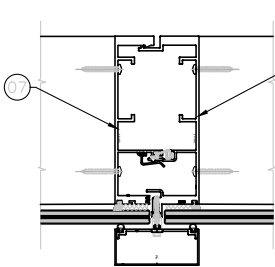
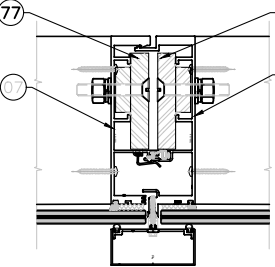
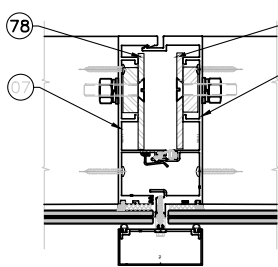
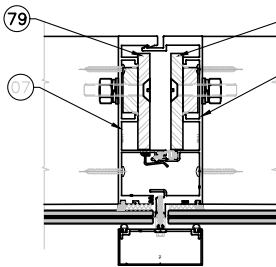
78 05 06

	Ix in^4	Sx in^3
ALUM. (7000-131 + 7000-109)	34.7709	9.4261
2 * ST-2	3.7440	1.6600
TOTAL Ix Al + Ix St*(2.9)	45.6285	--

179.59° MIN.

79 05 06

	Ix in^4	Sx in^3
ALUM. (7000-131 + 7000-109)	34.7709	9.4261
2 * ST-4	6.5046	2.9832
TOTAL Ix Al + Ix St*(2.9)	53.6342	--

STRUCTURAL CAPPED GLAZED STRAIGHT MULLION													
		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. (7000-108 + 7000-102)	40.5240	9.3870	ALUM. (7000-102 + 7000-108)	40.5240	9.3870	ALUM. (7000-102 + 7000-108)	40.5240	9.3870	ALUM. (7000-102 + 7000-108)	40.5240	9.3870	
	2 * ST-1			9.2210	4.3132	2 * ST-2			3.7440	1.6600	2 * ST-4		
	TOTAL Ix Al + Ix St*(2.9)			67.2620	--	TOTAL Ix Al + Ix St*(2.9)			51.3816	--	TOTAL Ix Al + Ix St*(2.9)		

STRUCTURAL GLAZED CORNER MULLIONS

90° INSIDE OR OUTSIDE CORNER MULLION OPTIONS

OUTSIDE CORNER MULLION W/O REINF.

	Ix in^4	Sx in^3
ALUM. (7000-120 + 7000-122)	98.2386	16.7443

INSIDE CORNER MULLION W/O REINF.

	Ix in^4	Sx in^3
ALUM. (7000-124 + 7000-125)	90.4431	14.0658

OUTSIDE CORNER MULLION W/O REINF.

	Ix in^4	Sx in^3
ALUM. (7000-120 + 7000-122) X-Direction	49.8888	10.3160
ALUM. (7000-120 + 7000-122) Y-Direction	50.8132	10.3630

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

STRUCTURAL BUTT GLAZED
STRAIGHT JAMB

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 Ix Al + Ix St*(2.9)		46.7881	--		TOTAL Ix Al + Ix St*(2.9)	38.8464	--		TOTAL Ix Al + Ix St*(2.9)	42.8492	--

STRUCTURAL BUTT GLAZED
CURVED JAMB

179.59° MIN.

28

29

	Ix in ⁴	Sx in ³
ALUM. (7000-131 + 7000-132)	35.9366	9.7389

179.59° MIN.

28

29

77

	Ix in ⁴	Sx in ³
ALUM. (7000-131 + 7000-132)	35.9366	9.7389
1 * ST-1	4.6105	2.1566
TOTAL Ix Al + Ix St*(2.9)	49.3071	--

179.59° MIN.

28

29

78

	Ix in ⁴	Sx in ³
ALUM. (7000-131 + 7000-132)	35.9366	9.7389
1 * ST-2	1.8720	0.8300
TOTAL Ix Al + Ix St*(2.9)	41.3654	--

179.59° MIN.

28

29

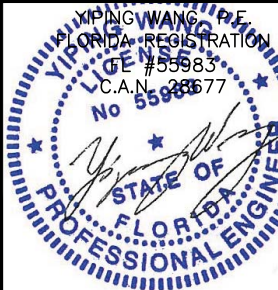
79

	Ix in ⁴	Sx in ³
ALUM. (7000-131 + 7000-132)	35.9366	9.7389
1 * ST-4	3.2523	1.4916
TOTAL Ix Al + Ix St*(2.9)	45.3682	--

STRUCTURAL CAPPED GLAZED STRAIGHT JAMB													
		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. (7000-108 + 7000-102)	40.5240	9.3870	ALUM. (7000-102 + 7000-108)	40.5240	9.3870	ALUM. (7000-102 + 7000-108)	40.5240	9.3870	ALUM. (7000-102 + 7000-108)	40.5240	9.3870	
	2 * ST-1			9.2210	4.3132	2 * ST-2			3.7440	1.6600	2 * ST-4		
	TOTAL Ix Al + Ix St*(2.9)			67.2620	--	TOTAL Ix Al + Ix St*(2.9)			51.3816	--	TOTAL Ix Al + Ix St*(2.9)		

REINFORCEMENT OPTIONS											
ST-1 (A50) 3/4" STEEL REINFORCEMENT			ST-2 (A36) 1/4" STEEL REINFORCEMENT			ST-4 (A50) 1/2" STEEL REINFORCEMENT			SP-1 (AS-1) 7000-143		

FLORIDA APPROVAL:
FL#28879.3



NO.	DATE	DESCRIPTION
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MCY ENGINEERING, INC.
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12781 MIAMAR PARKWAY #301
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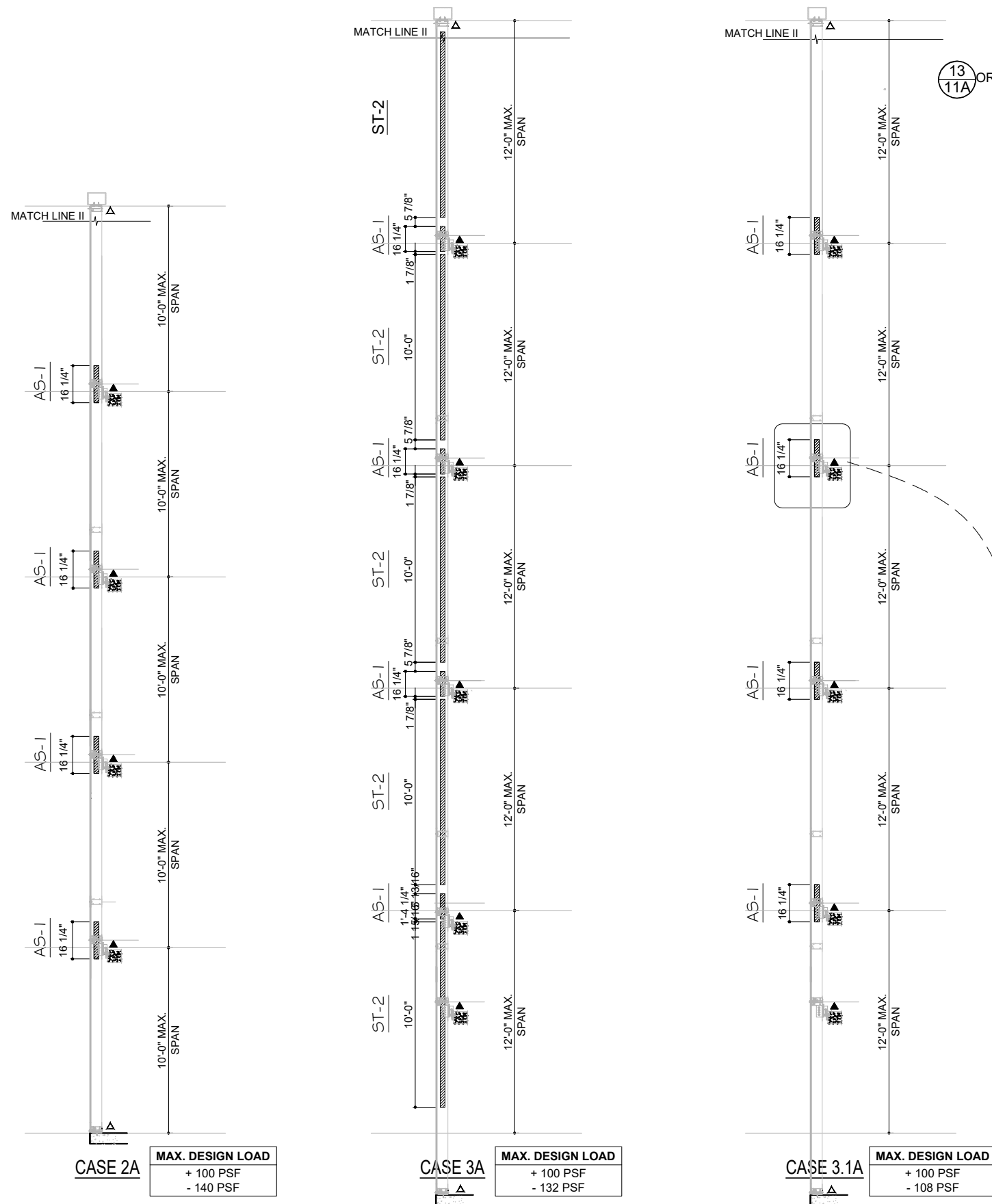
SERIES 7000 ALUMINUM CURTAIN WALL LAM. GLASS - SMI
TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08A

08 OF 38

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



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

STRUCTURAL BUTT GLAZED CURVED 172° MULLION

MULLION W/O REINF.

MULLION - 172°

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

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

JAMB W/O REINF.

MULLION - 172°

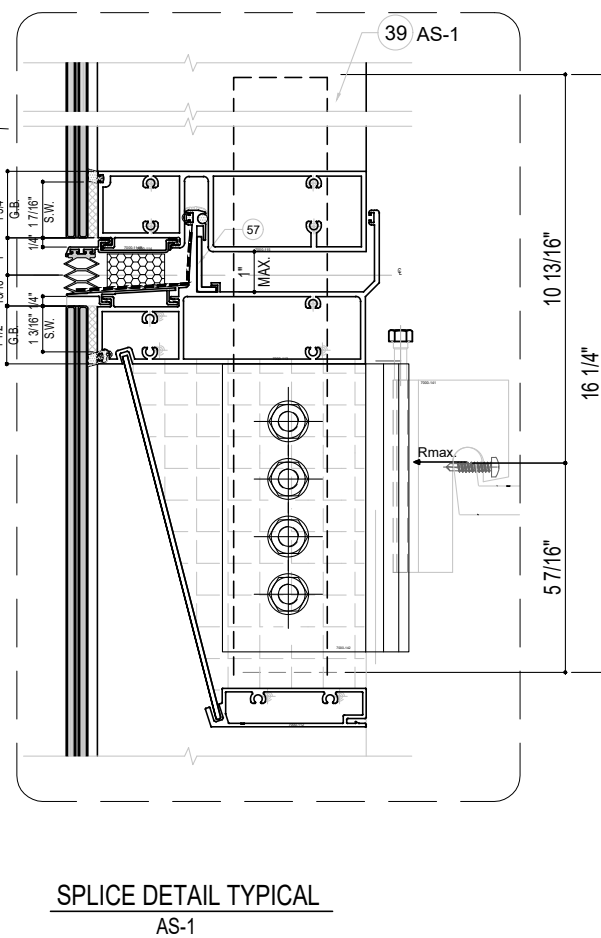
	Ix in ⁴	Sx in ³
ALUM. (7000-464 + 7000-465)	29.0823	8.2186

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	--



FLORIDA APPROVAL:
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YIPANG WANG, P.E.
FLORIDA REGISTRATION
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C.A.N. 8677

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		R2	09.19.2023 FBC 2023

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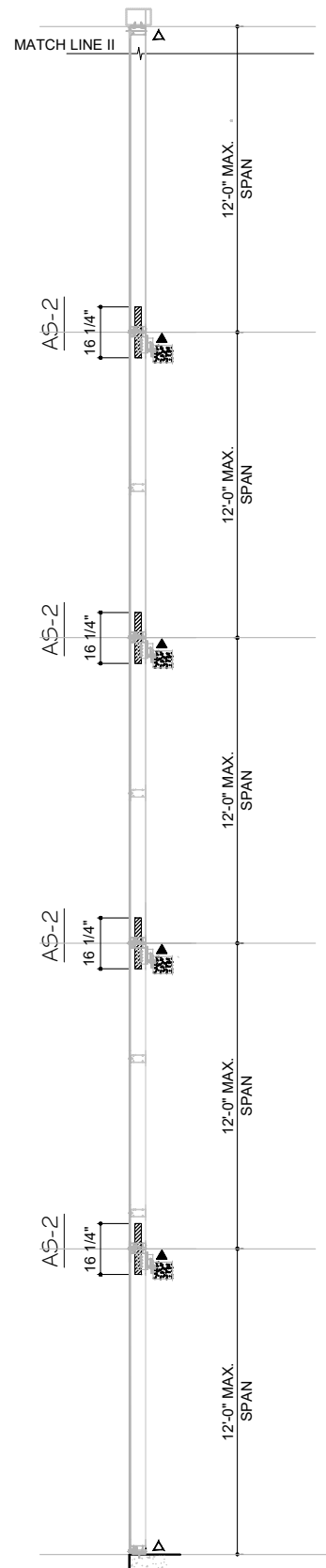
PH: (305)-342-0890 FAX (786) 513-3965

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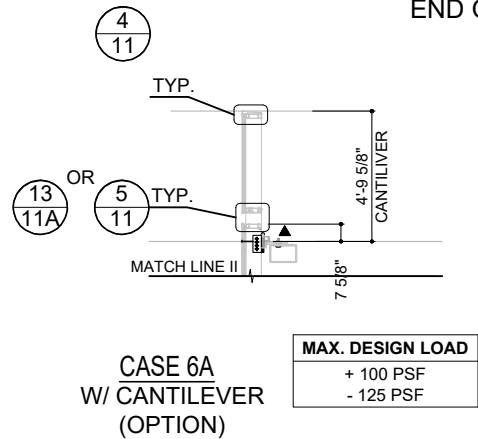
08A OF 38

86.9° OR 94.4° INSIDE & OUTSIDE CORNER MULLION



CASE 6A
OUTSIDE
CORNER MULLION.

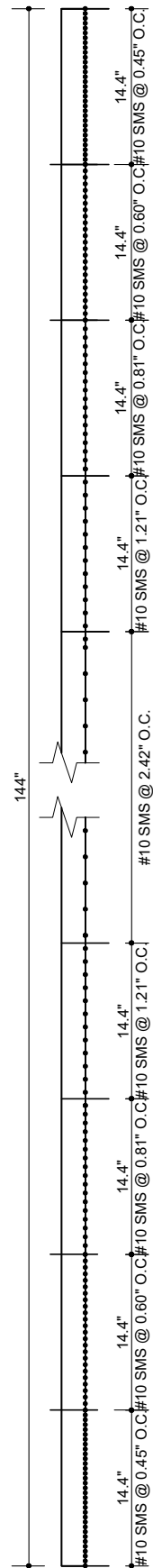
MAX. DESIGN LOAD
+ 100 PSF - 125 PSF

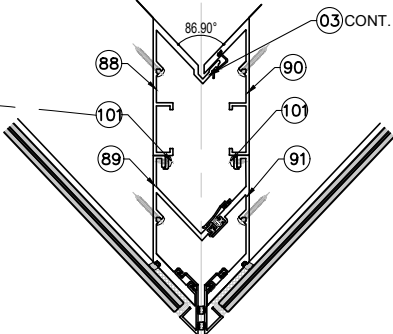
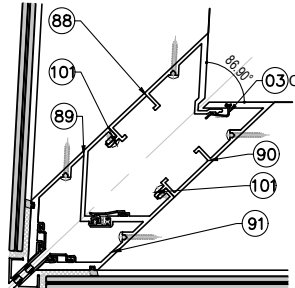


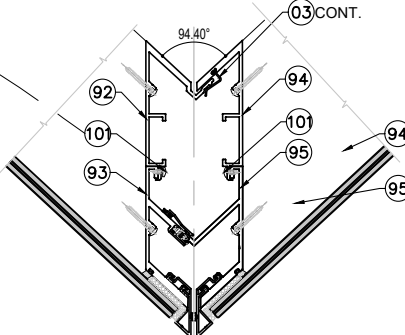
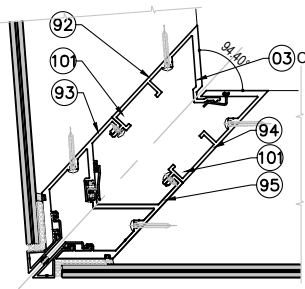
MAX. DESIGN LOAD
+ 100 PSF - 125 PSF

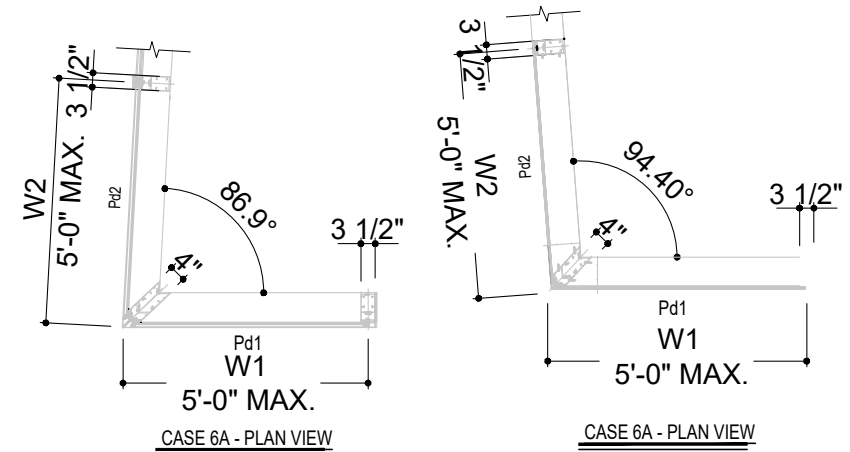
EQ LOAD

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



		86.90° INSIDE OR OUTSIDE CORNER MULLION OPTIONS															
		OUTSIDE CORNER MULLION W/O REINF.	OUTSIDE CORNER MULLION W/O REINF.														
STRUCTURAL GLAZED CORNER MULLIONS																	
	ALUM. (7000-454 + 7000-455) / (7000-452 + 7000-453)	<table><tr><th>Ix</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr><tr><td>106.5111</td><td>17.4263</td></tr></table>	Ix	Sx	in^4	in^3	106.5111	17.4263	<table><tr><th>Ix</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr><tr><td>49.1628</td><td>11.2743</td></tr><tr><td>60.5703</td><td>11.8468</td></tr></table>	Ix	Sx	in^4	in^3	49.1628	11.2743	60.5703	11.8468
	Ix	Sx															
	in^4	in^3															
106.5111	17.4263																
Ix	Sx																
in^4	in^3																
49.1628	11.2743																
60.5703	11.8468																
		ALUM. (7000-454 + 7000-455) / (7000-452 + 7000-453) X-Direction	49.1628														
		ALUM. (7000-454 + 7000-455) / (7000-452 + 7000-453) Y-Direction	60.5703														

		94.40° INSIDE OR OUTSIDE CORNER MULLION OPTIONS															
		OUTSIDE CORNER MULLION W/O REINF.	OUTSIDE CORNER MULLION W/O REINF.														
STRUCTURAL GLAZED CORNER MULLIONS																	
	ALUM. (7000-458 + 7000-459) / (7000-460 + 7000-461)	<table><tr><th>Ix</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr><tr><td>88.0451</td><td>15.5088</td></tr></table>	Ix	Sx	in^4	in^3	88.0451	15.5088	<table><tr><th>Ix</th><th>Sx</th></tr><tr><td>in^4</td><td>in^3</td></tr><tr><td>46.1732</td><td>10.7425</td></tr><tr><td>44.9054</td><td>9.7428</td></tr></table>	Ix	Sx	in^4	in^3	46.1732	10.7425	44.9054	9.7428
	Ix	Sx															
	in^4	in^3															
88.0451	15.5088																
Ix	Sx																
in^4	in^3																
46.1732	10.7425																
44.9054	9.7428																
		ALUM. (7000-458 + 7000-459) / (7000-460 + 7000-461) X-Direction	46.1732														
		ALUM. (7000-458 + 7000-459) / (7000-460 + 7000-461) Y-Direction	44.9054														



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

FLORIDA APPROVAL:
FL#28879.3

YIPANG WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.N. 88677

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SERIES 7000 ALUMINUM CURTAIN WALL LAM. GLASS - SMI

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3550 NW 49TH STREET
MIAMI, FL 33142

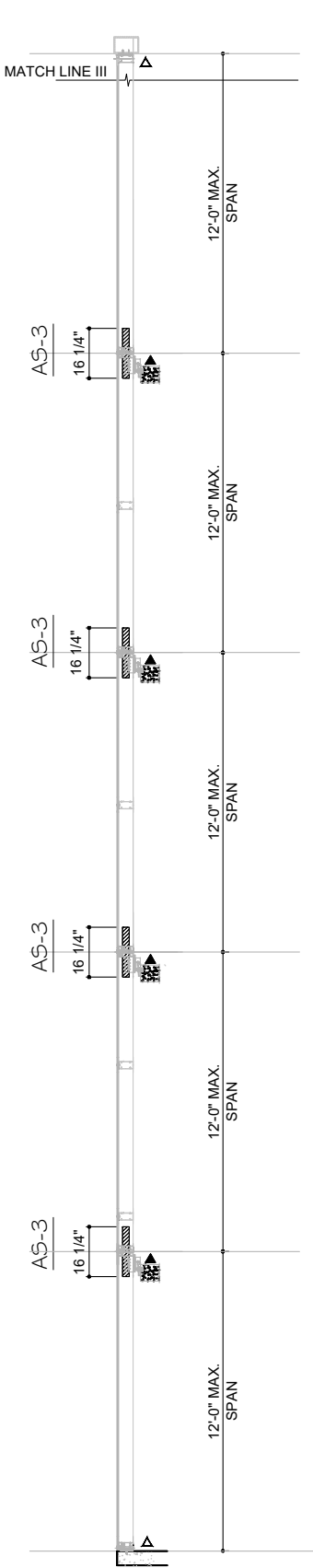
PH: (305)-342-0890 FAX (786) 513-3965

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08A

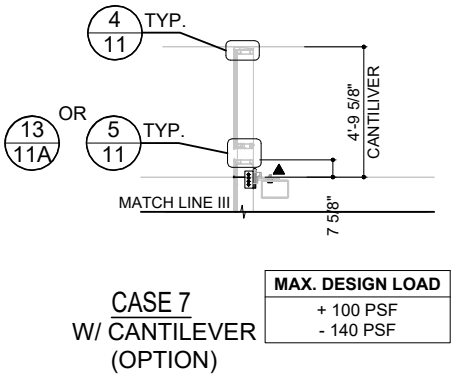
08B OF 38

135° OUTSIDE CORNER MULLION



CASE 7
OUTSIDE
CORNER MULLION.

MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF



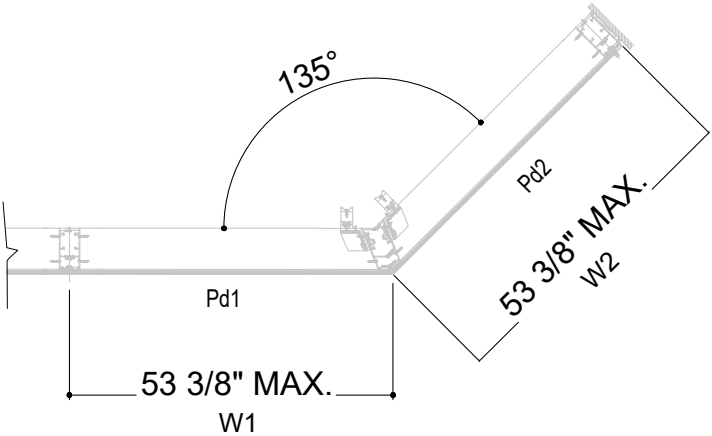
MAX. DESIGN LOAD
+ 100 PSF
- 140 PSF

STRUCTURAL GLAZED CORNER MULLIONS

135° INSIDE OR OUTSIDE CORNER MULLION OPTIONS

OUTSIDE CORNER MULLION W/O REINF.

ALUM. (7000-108R + 7000-109R)	I_x in ⁴	S_x 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

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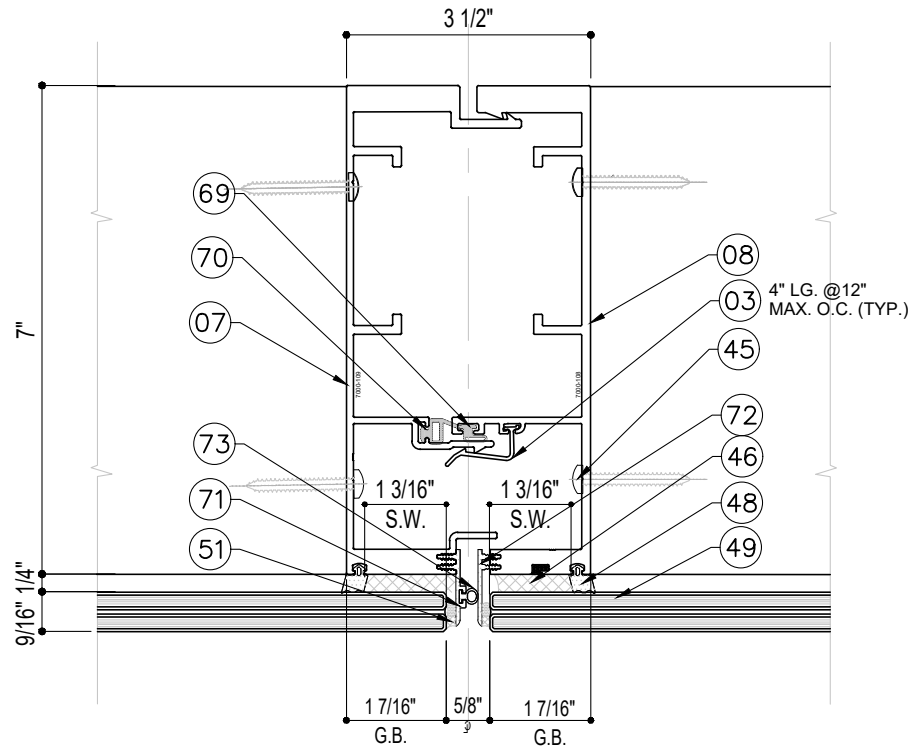
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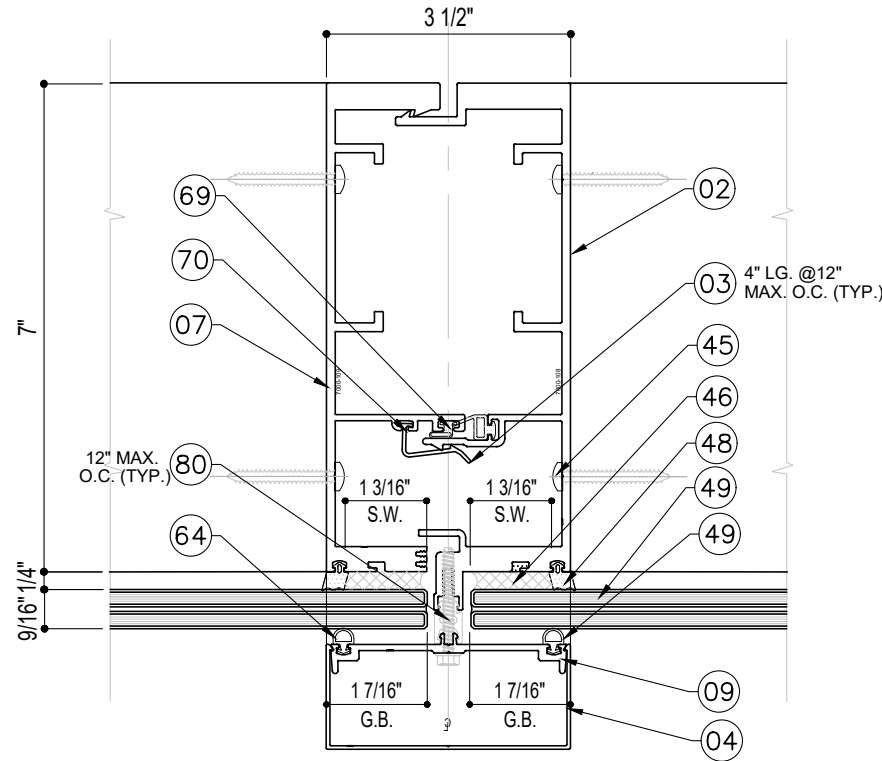
DRAWING NO.

AD19-08A

08C OF 38



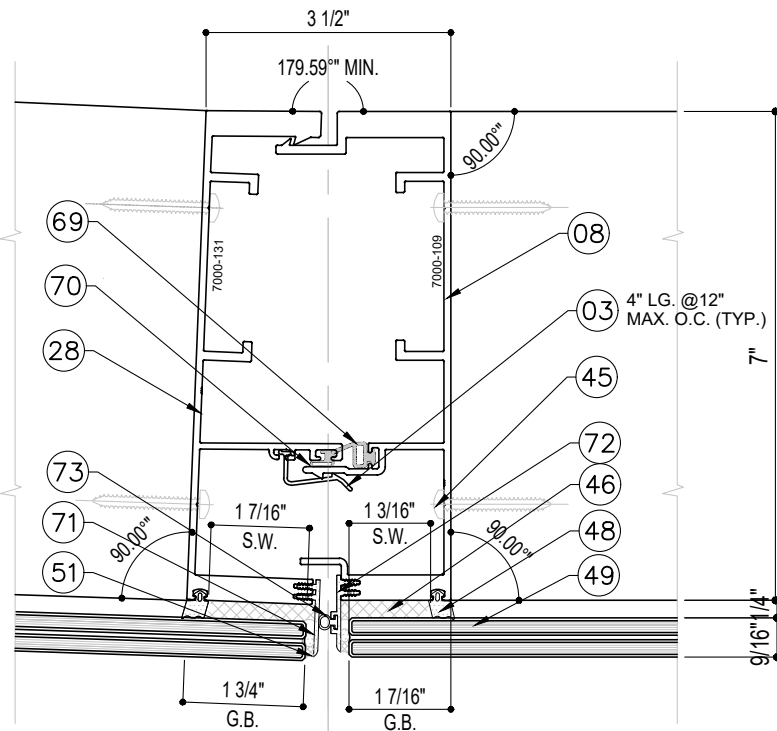
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09 TYP. MULLION BUTT GLAZED
UNREINF.



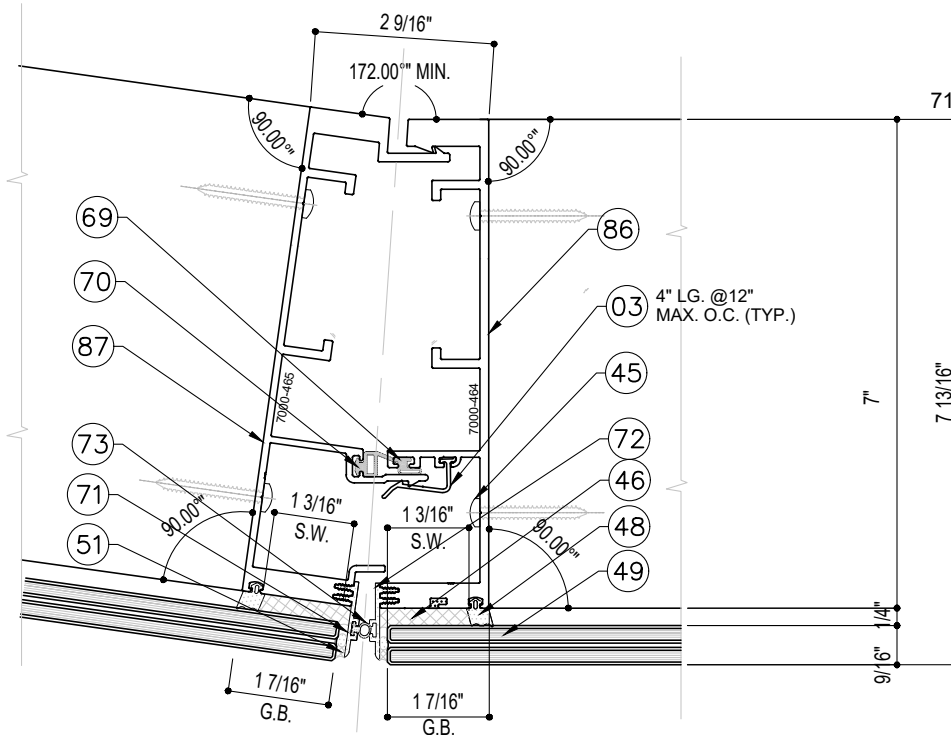
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09 TYP. MULLION CAPTURED

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

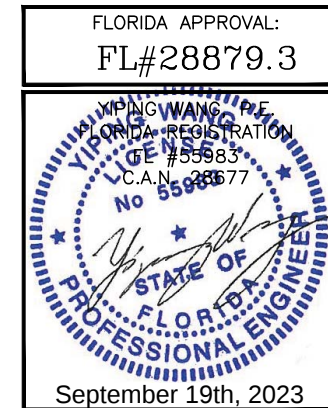
NOTE:
REFER TO SHEETS 6, 7 & 8A FOR TYP.
MULLION SPANS V.S. REINFORCEMENT
AND MAX. DESIGN LOAD.



1
09 TYP. MULLION CURVED



1
09 TYP. MULLION CURVED



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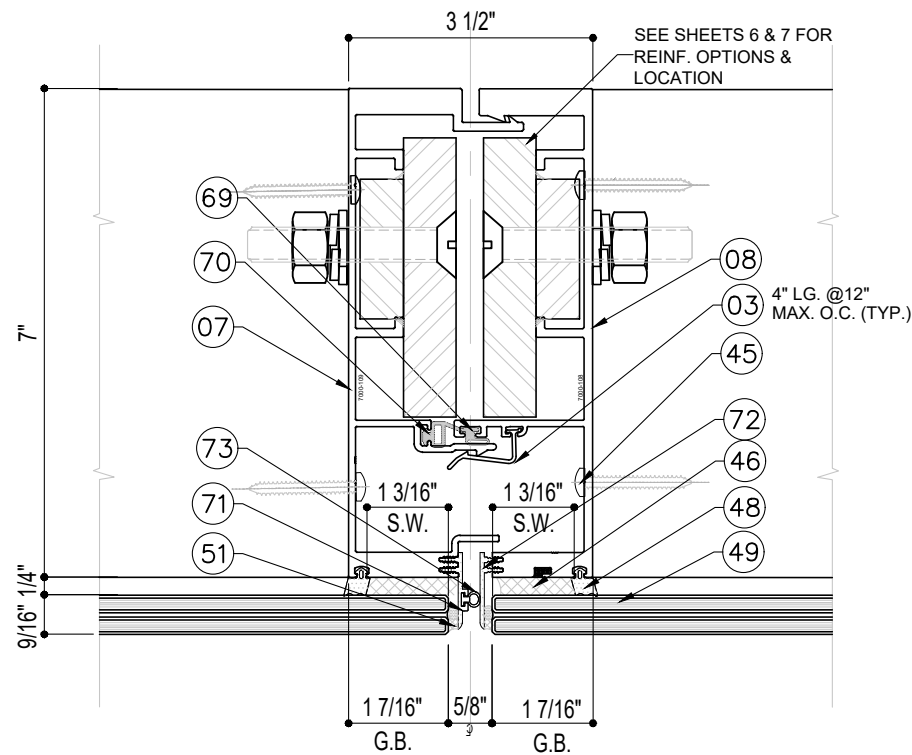
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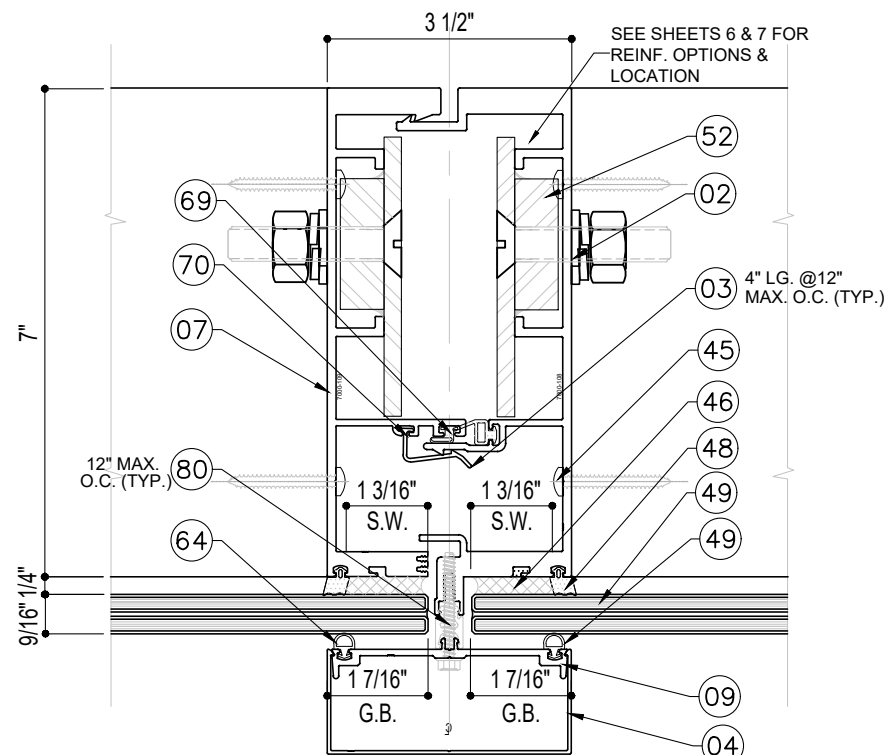
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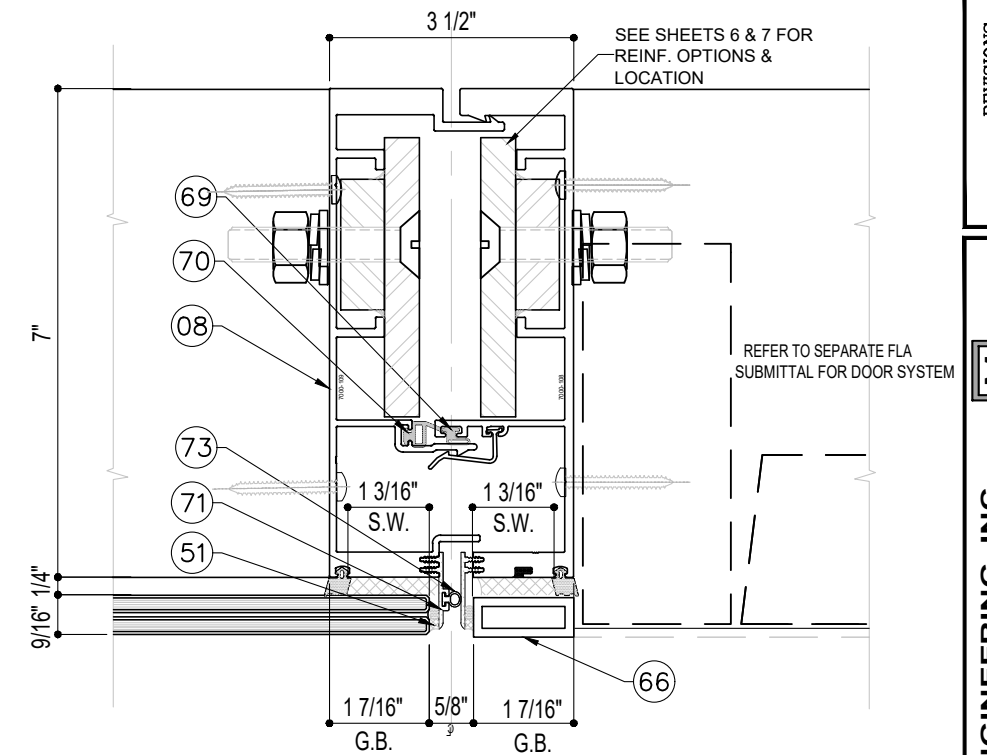
DATE	09.19.2023
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PROJECT	MCY19-010
DRAWING NO.	AD19-08A
	09 OF 38



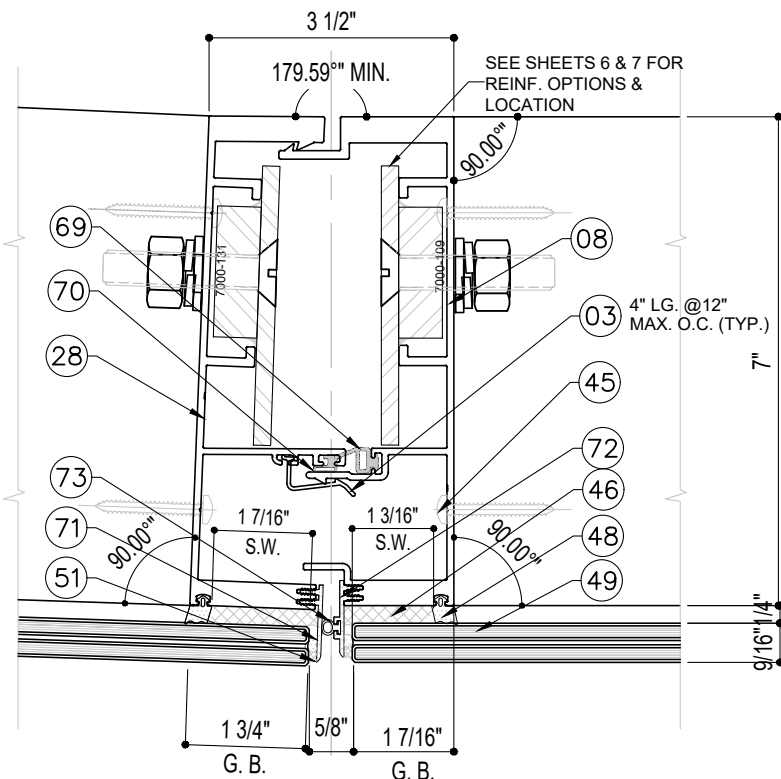
2 TYP. MULLION BUTT GLAZED W/ REINF.
10 REINF. OPTION (2) ST-1



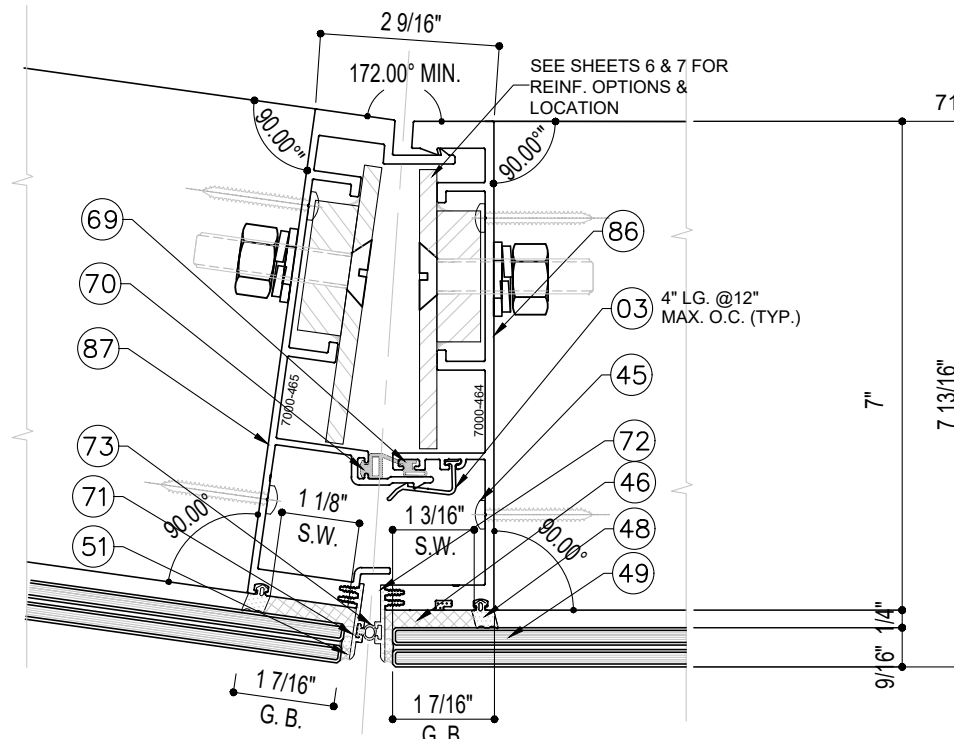
2 TYP. MULLION CAPTURED W/ REINF.
10 REINF. OPTION (2) ST-2



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



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



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

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

FLORIDA APPROVAL:
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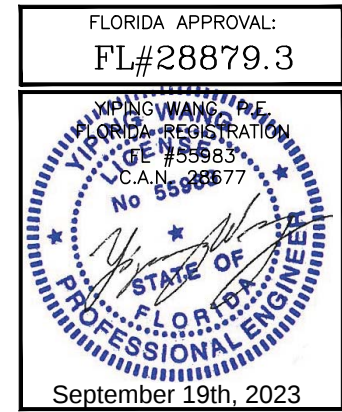
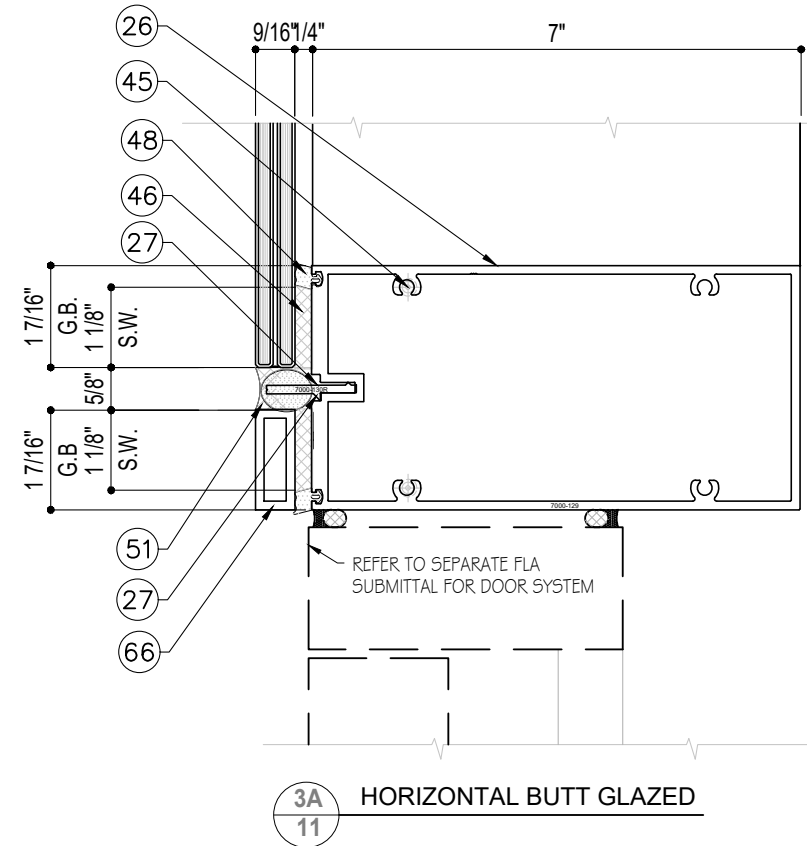
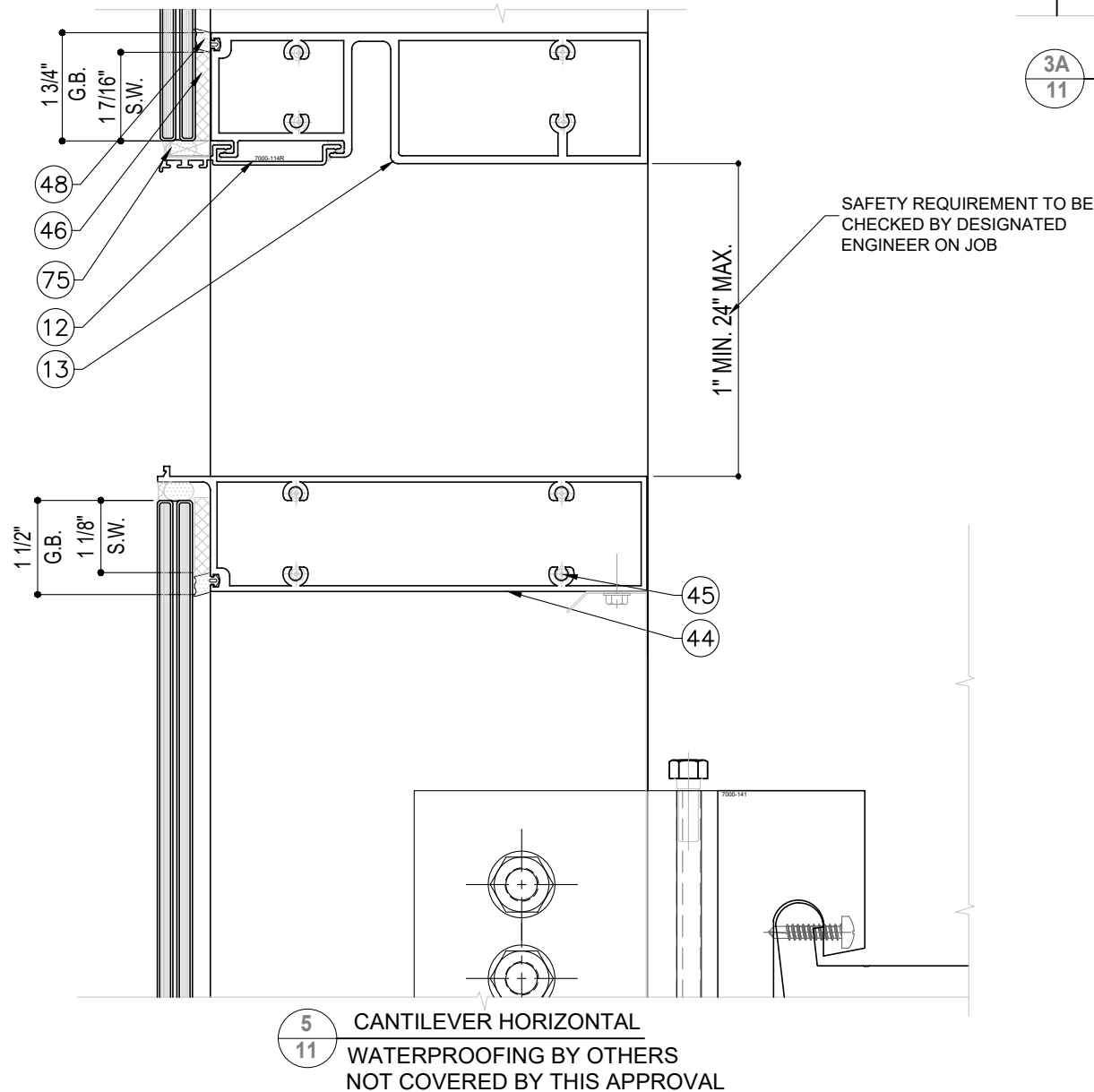
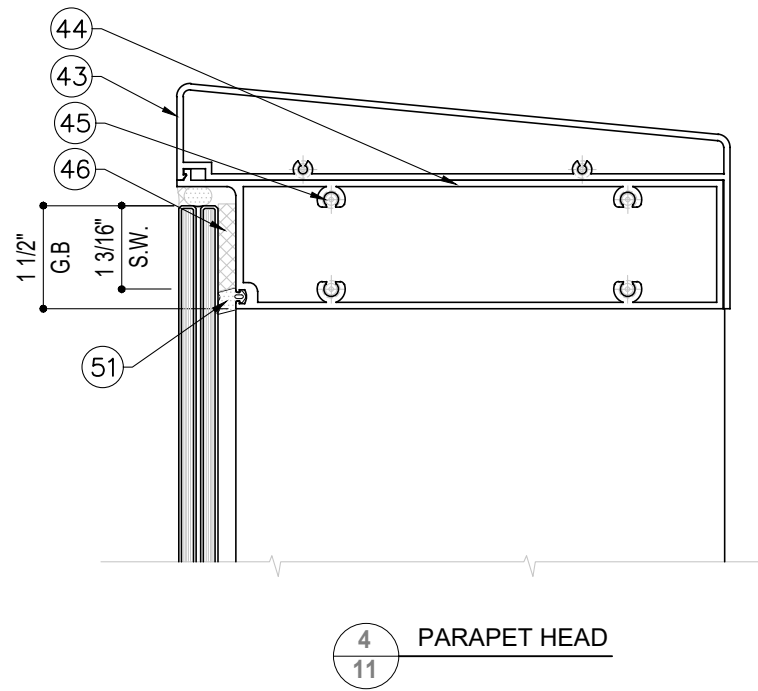
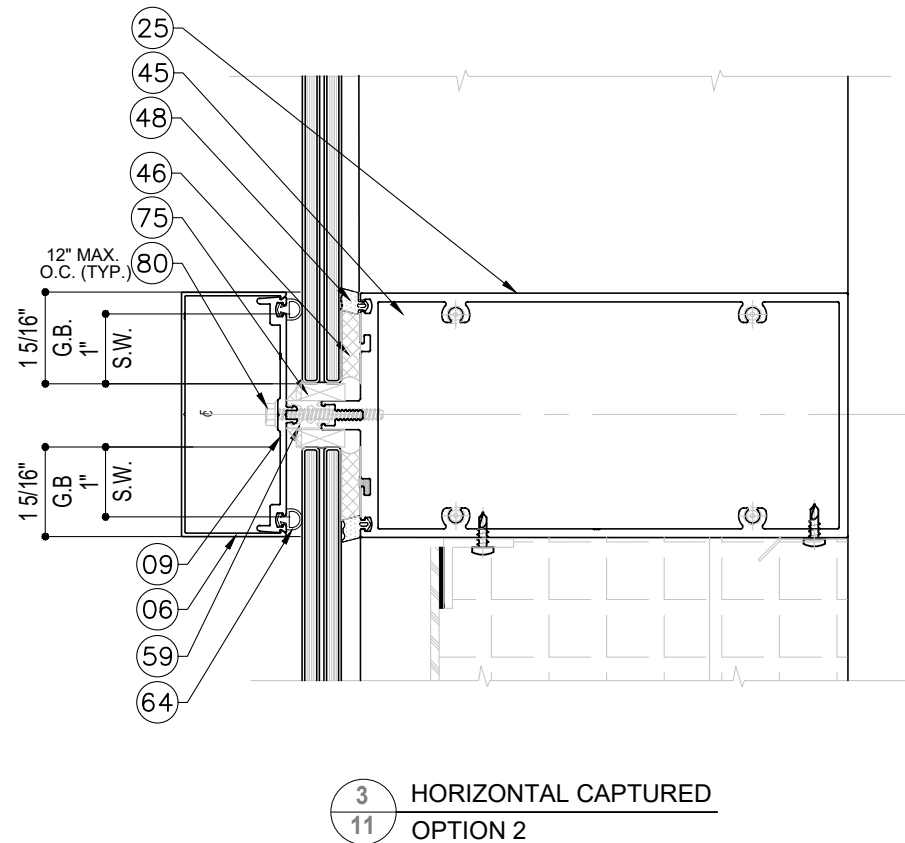
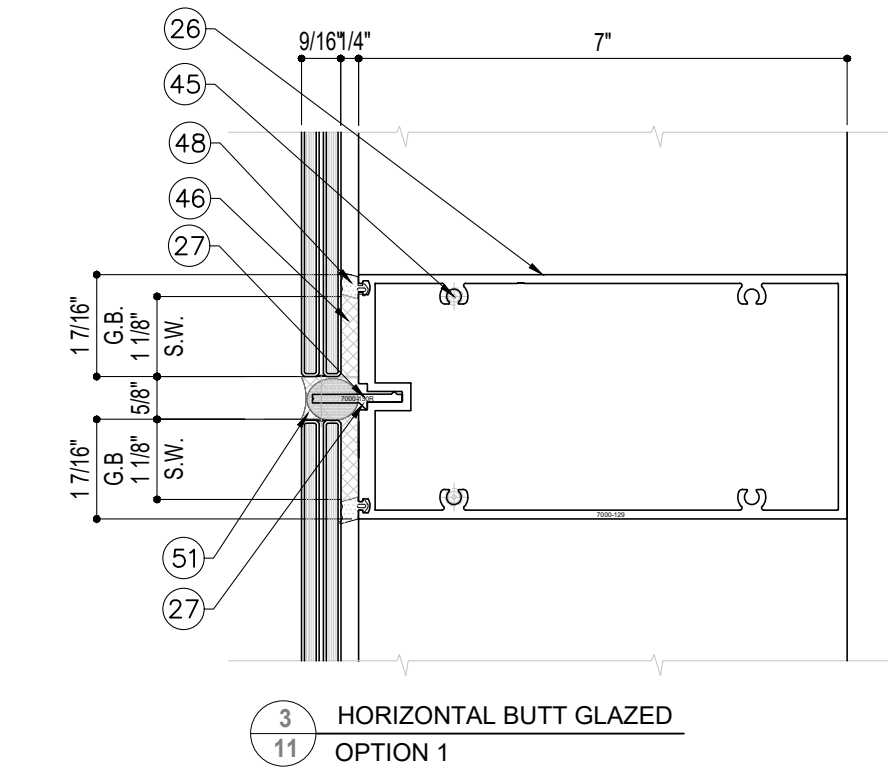
TECNOGLASS, LLC
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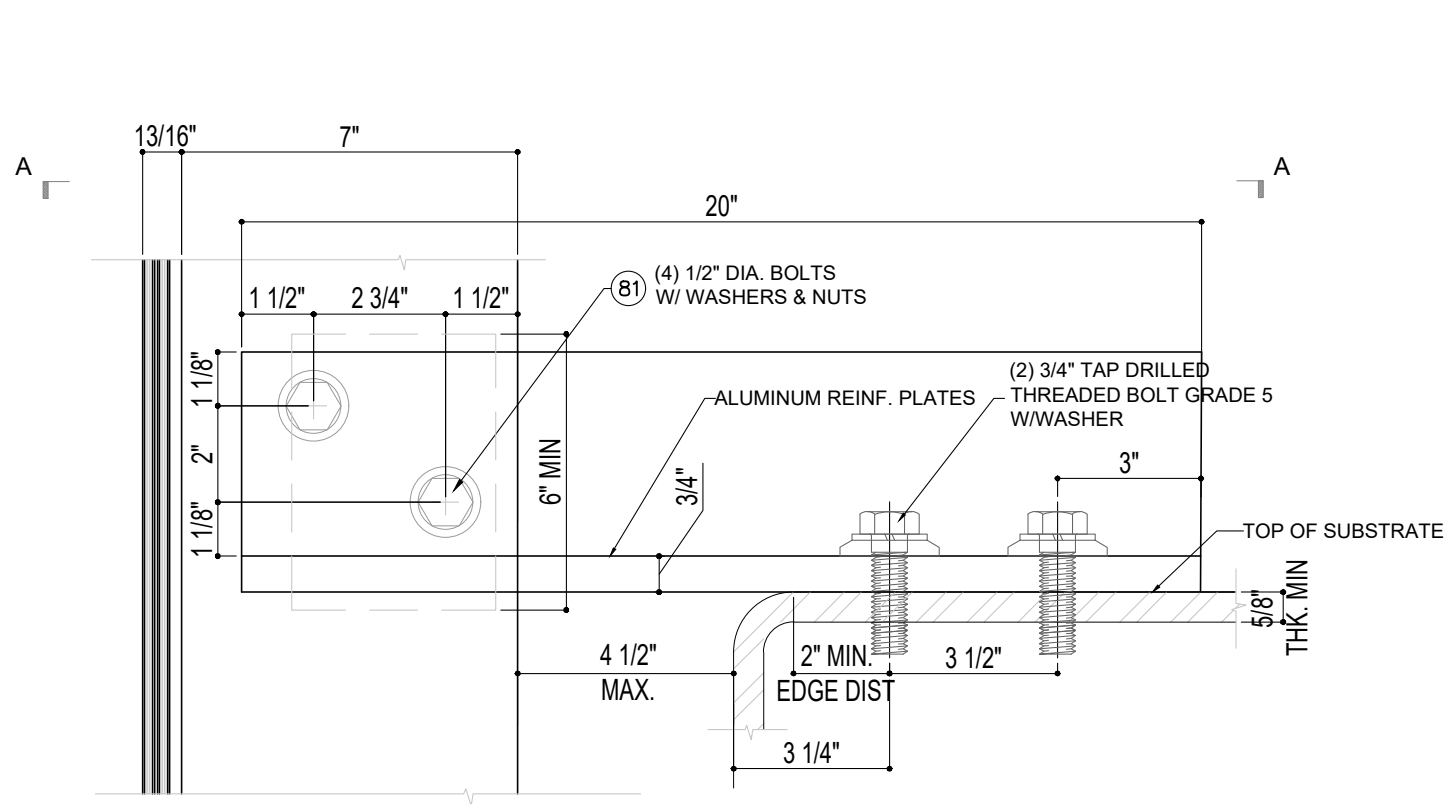
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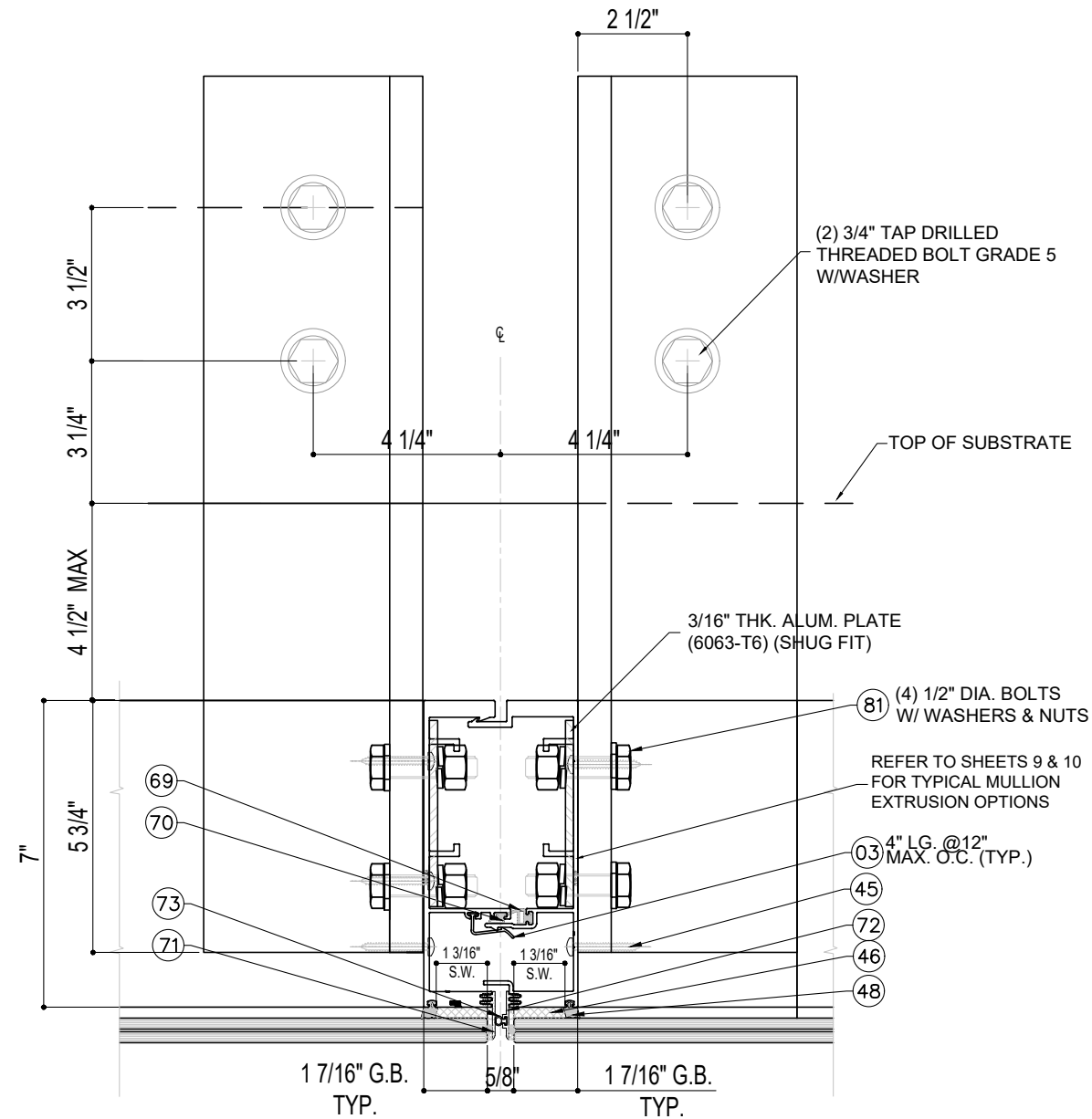
DRAWING NO.
AD19-08A

11 OF 38



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#28879.3

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FLORIDA REGISTRATION
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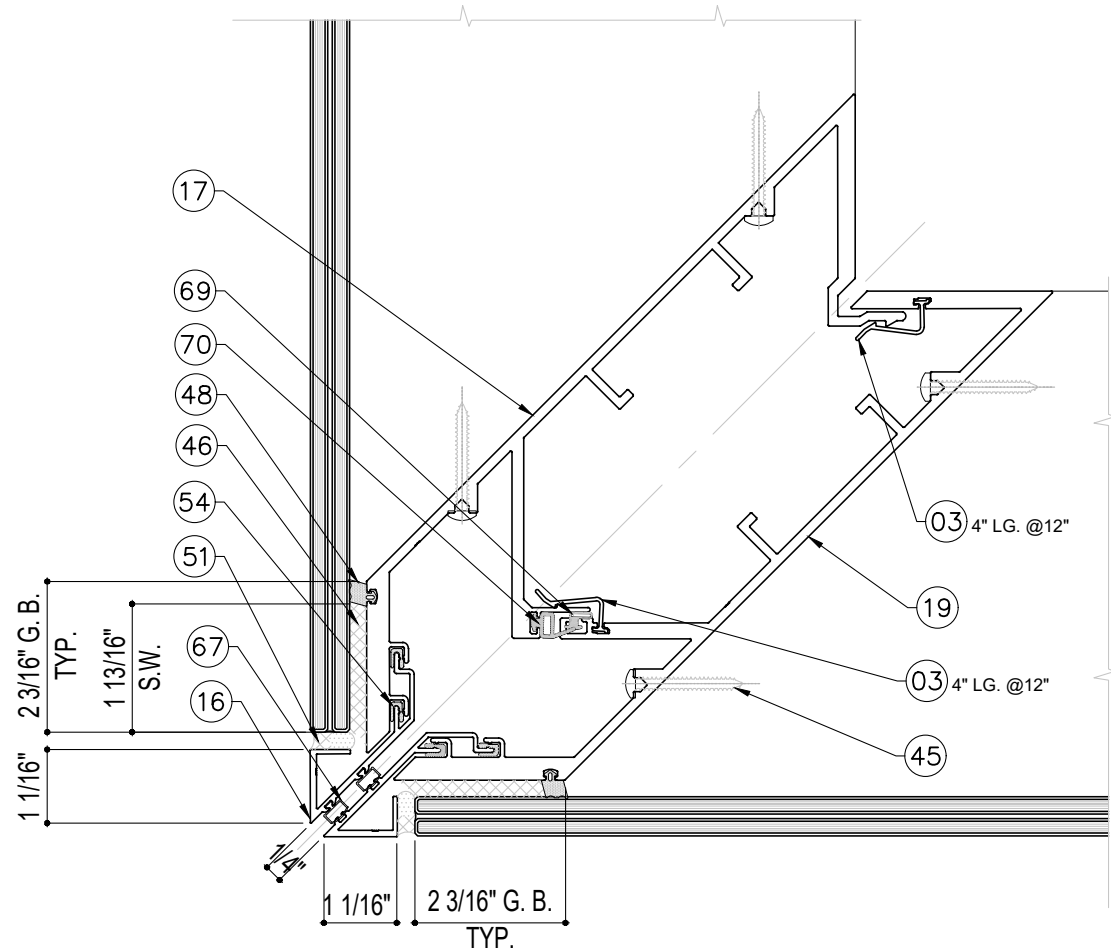
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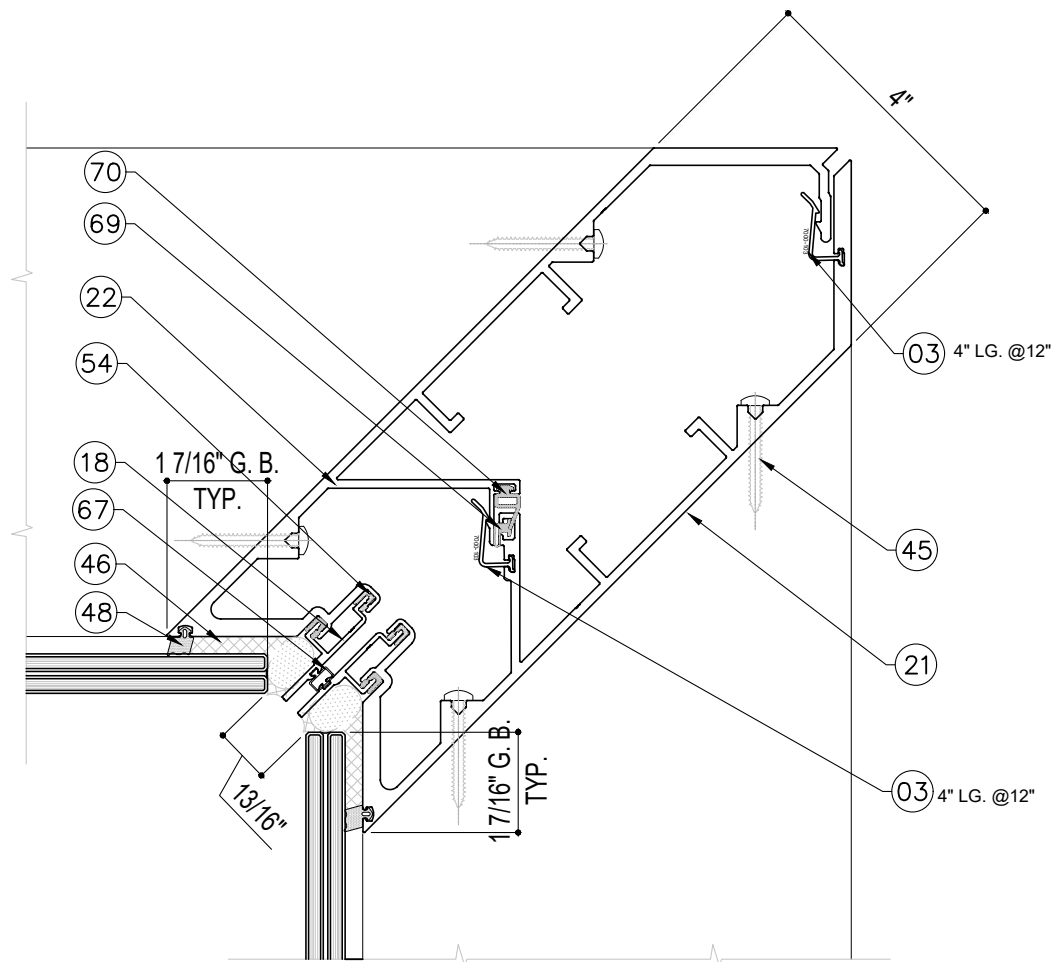
11A OF 38



6
12

OUTSIDE CORNER MULLION

NOTE:
REFER TO SHEETS 7 CASE 5&6 FOR TYP.
CORNER MULLION SPANS, AND DESIGN
LOAD



6A
12

INSIDE CORNER MULLION

FLORIDA APPROVAL:
FL#28879.3

YIPANG WANG, P.E.
FLORIDA REGISTRATION
CE #55983
C.A.N. #8677

YIPANG WANG
No 55983
STATE OF FLORIDA
PROFESSIONAL ENGINEER

September 19th, 2023

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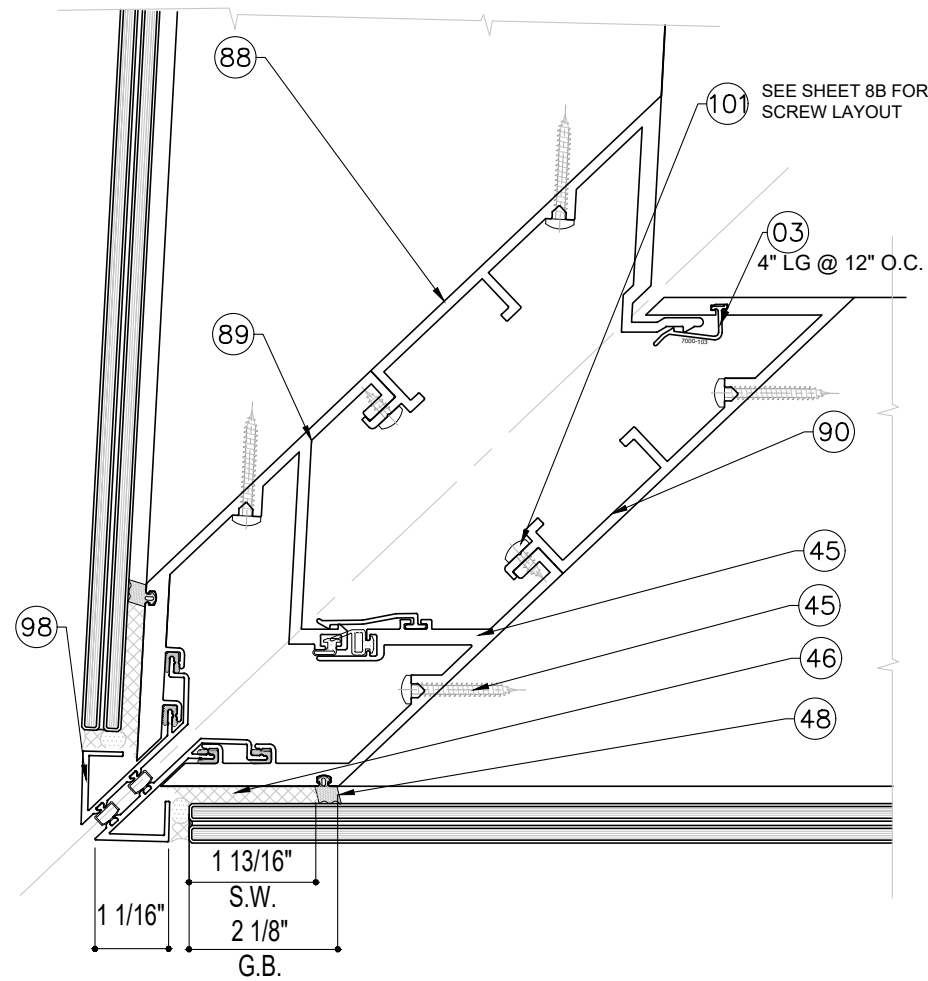
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TECNOGLASS, LLC
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PH: (305)-342-0890 FAX (786) 513-3965

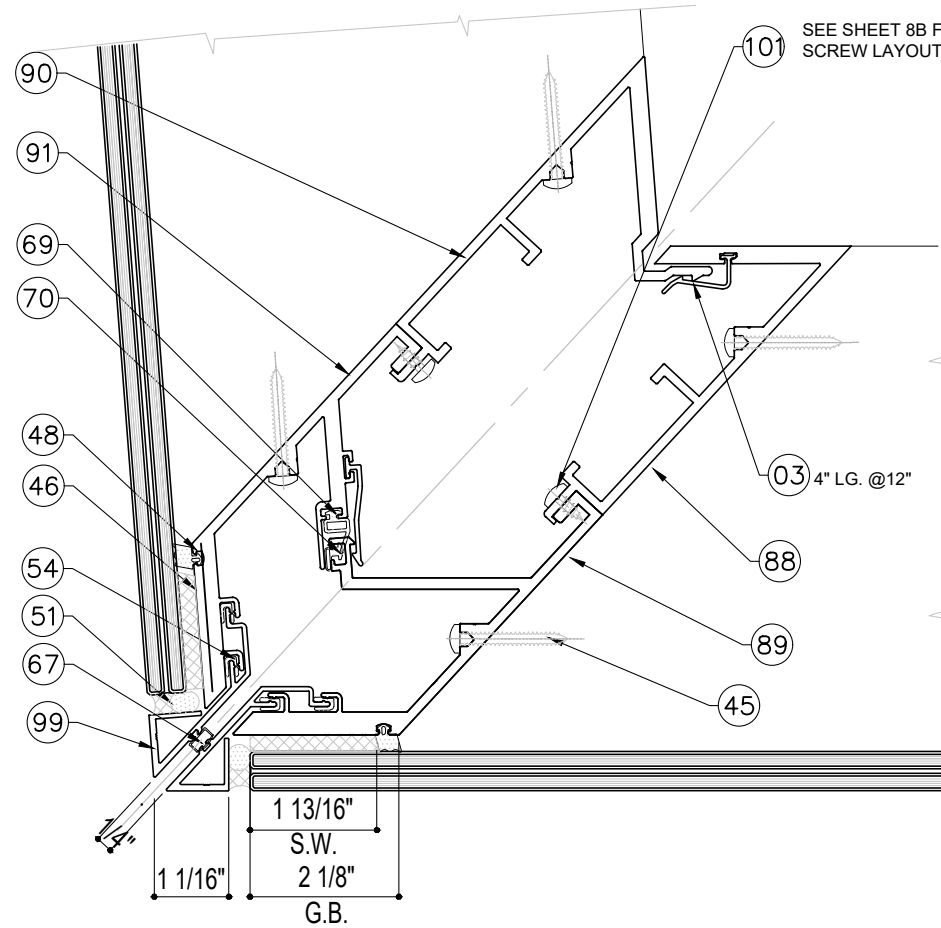
DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
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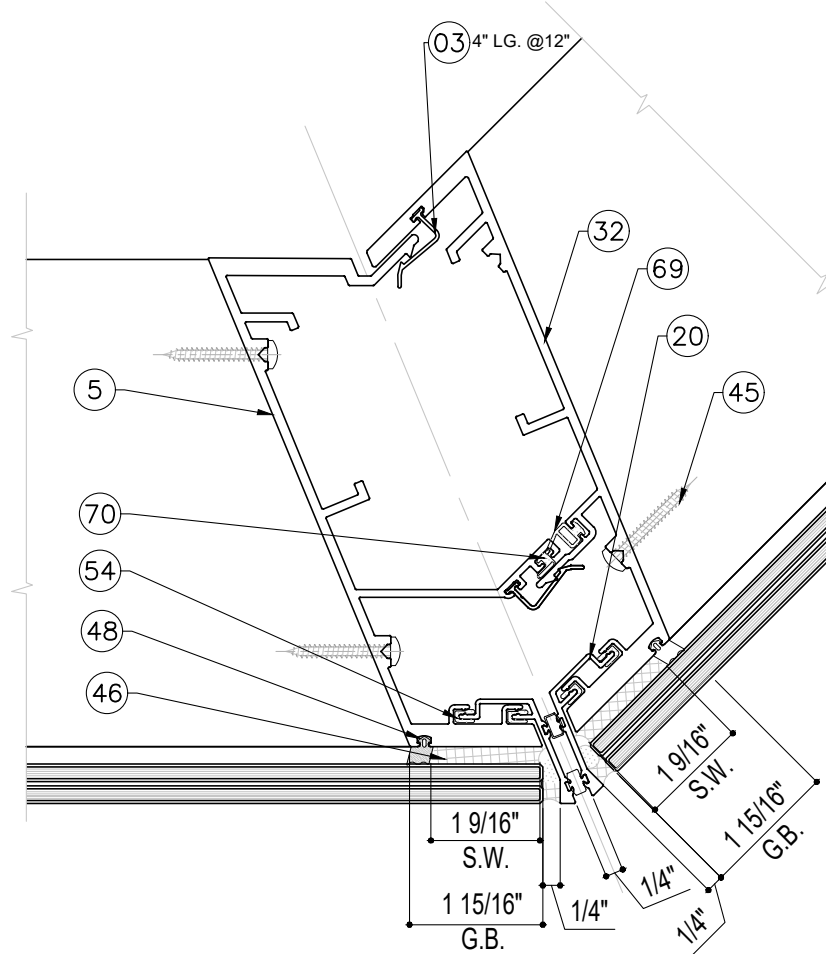
12 OF 38



6A
12A OUTSIDE CORNER MULLION (86.9°)



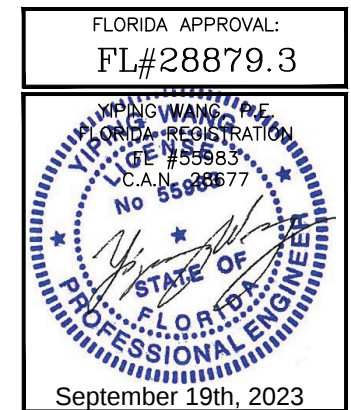
6B
12A OUTSIDE CORNER MULLION (94.40°)



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



NO.	DATE	DESCRIPTION
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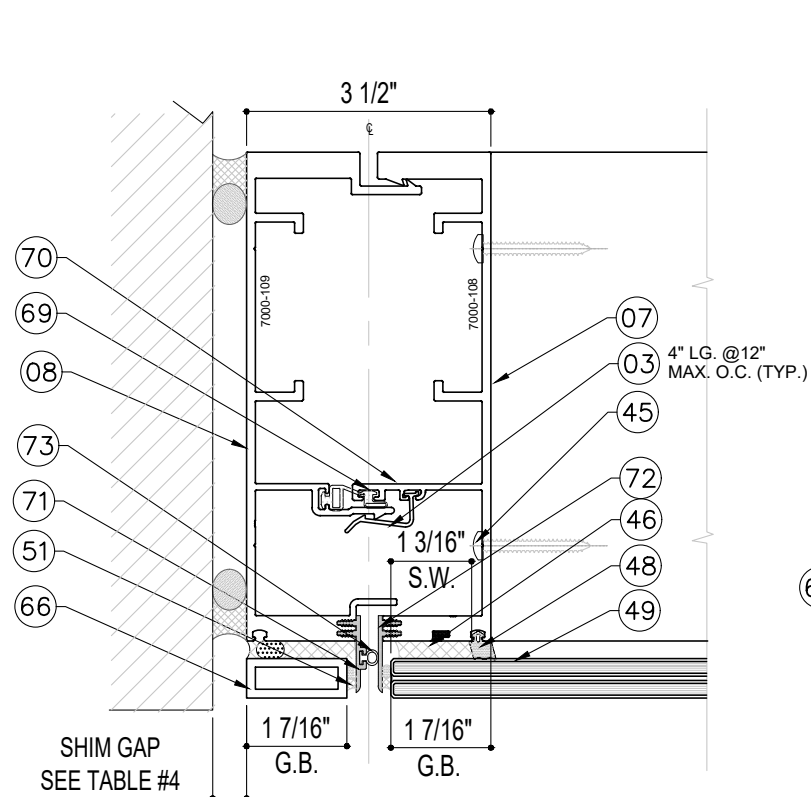
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MIRAMAR, FL 33027 F: 305.588.5224
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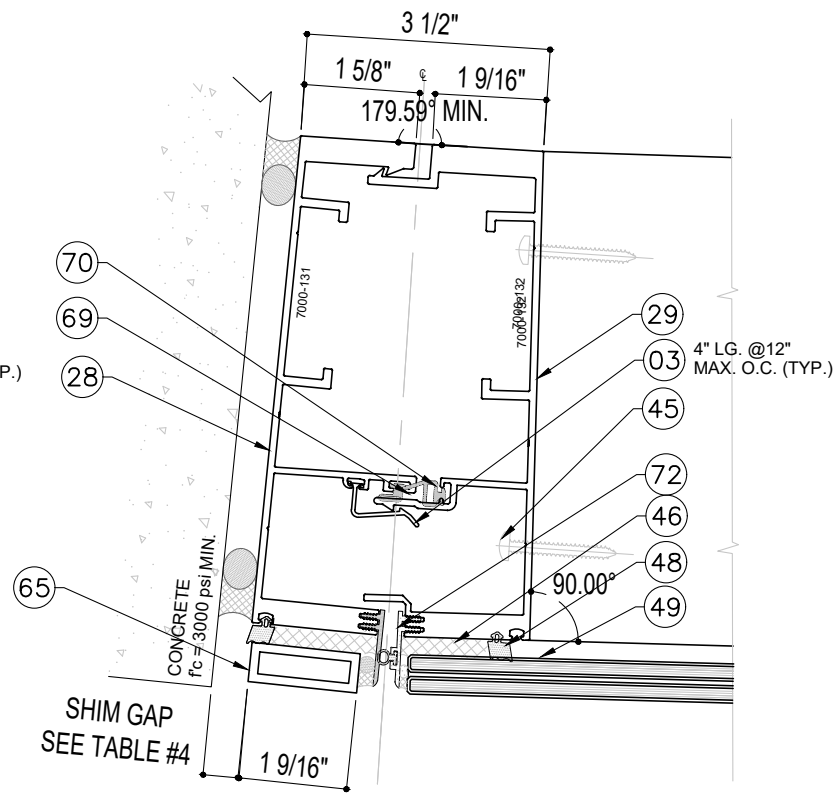
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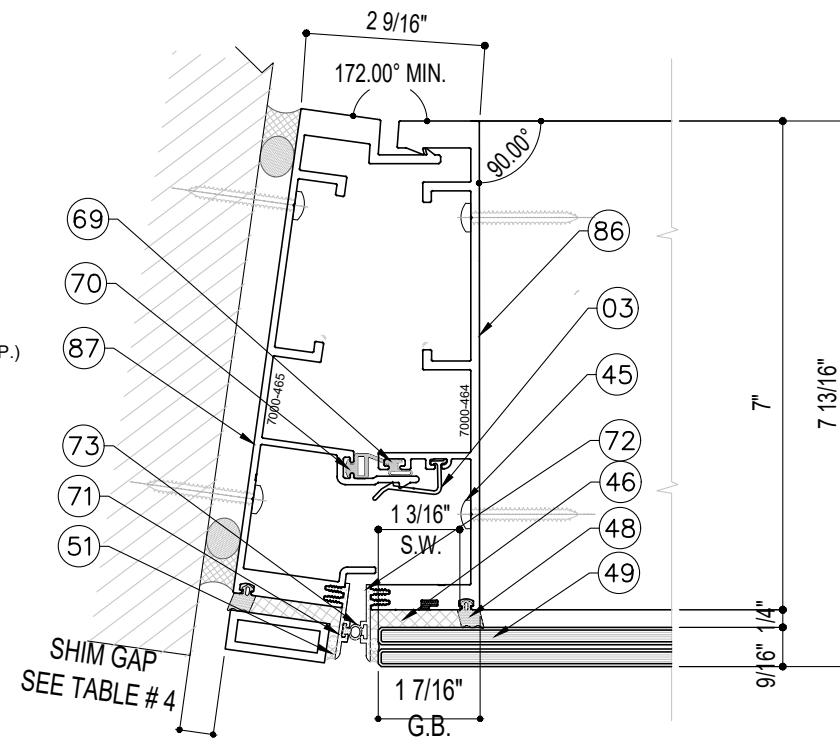
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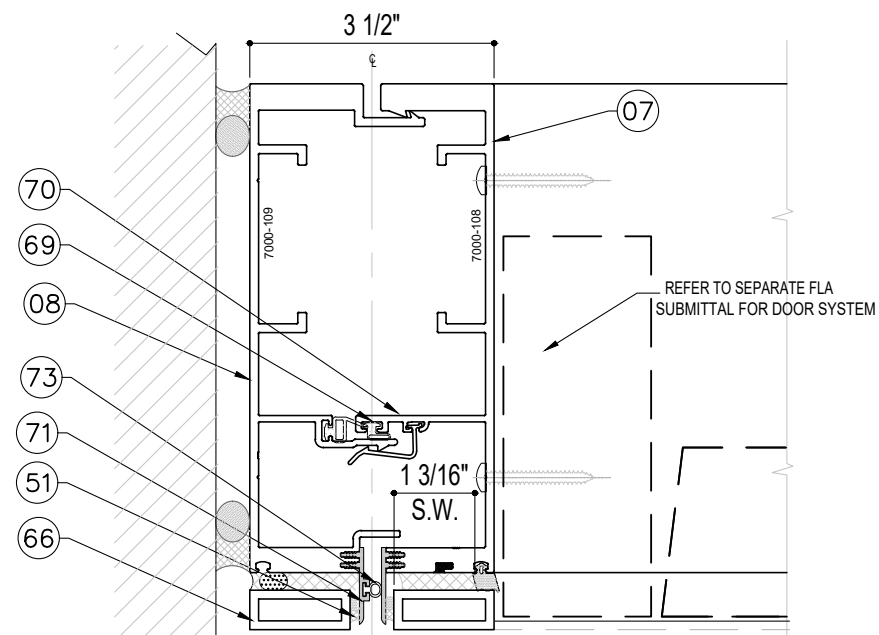
7
13 TYP. JAMB BUTT GLAZED
OPTION 1



7
13 TYP. JAMB CURVED
OPTION 2



7
13 TYP. JAMB BUTT GLAZED
OPTION 3



7A
13 TYP. DOOR JAMB
FOR SINGLE SPAN

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 $\varnothing$ TO $\varnothing$

FLORIDA APPROVAL:
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FLORIDA REGISTRATION
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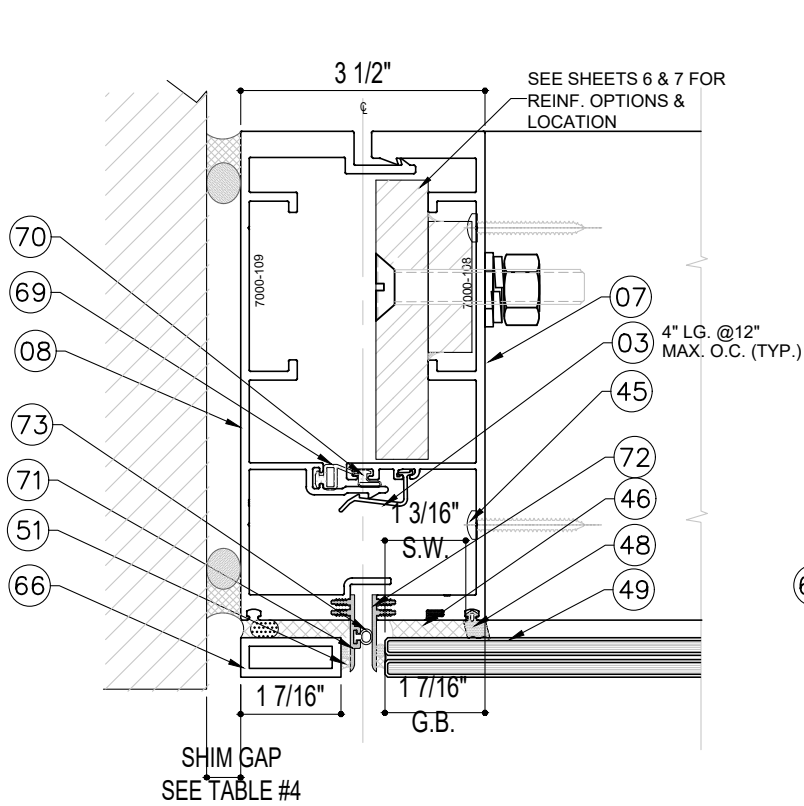
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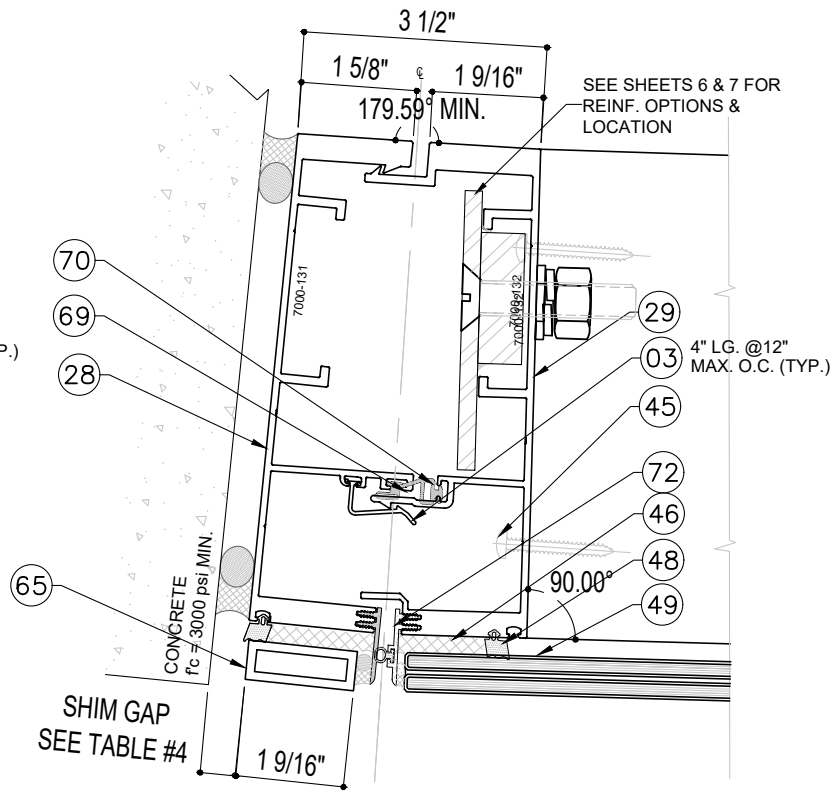
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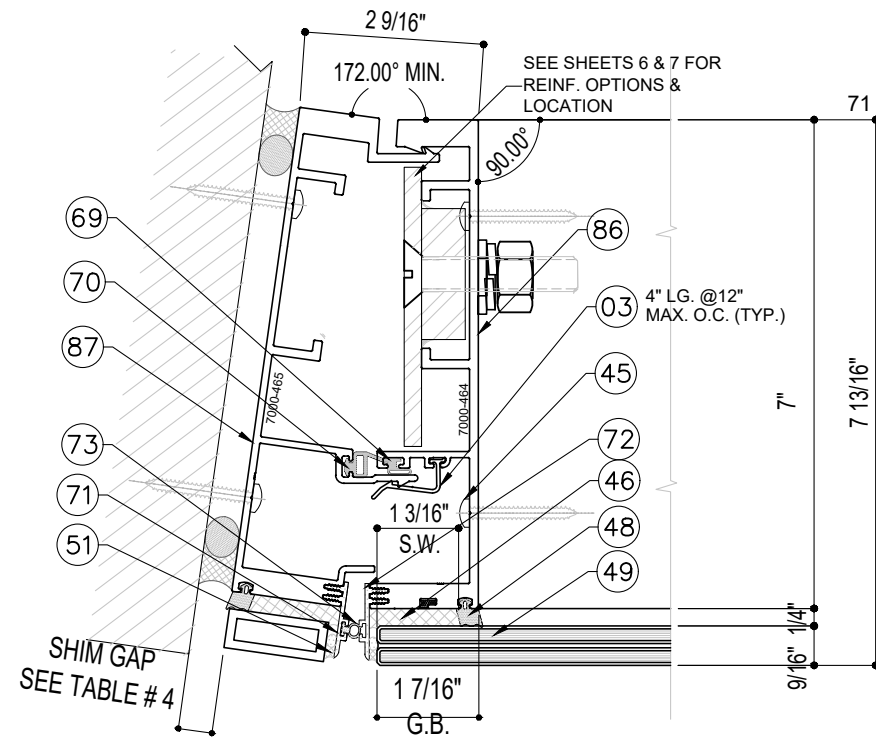
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PROJECT	MCY19-010
DRAWING NO.	AD19-08A
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8
14 TYP. JAMB BUTT GLAZED W/ REINF.
OPTION 1



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



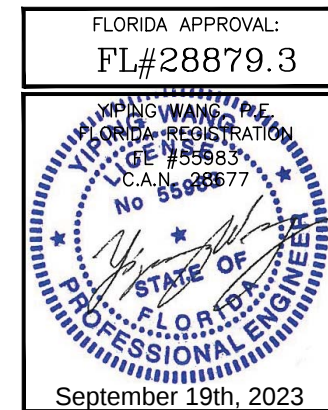
8
14 TYP. JAMB BUTT GLAZED W/ REINF.
OPTION 3

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"
192"	0.62"	0.75"
204"	0.65"	0.75"
208"	0.67"	0.75"

*JAMB SPAN: - ANCHOR ℓ TO ℓ



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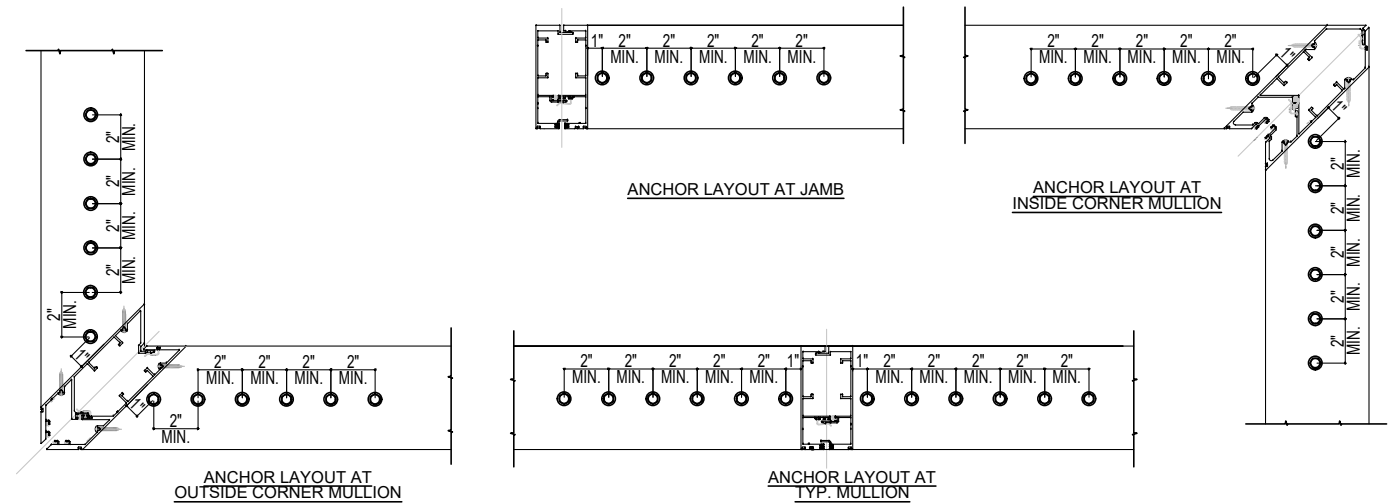
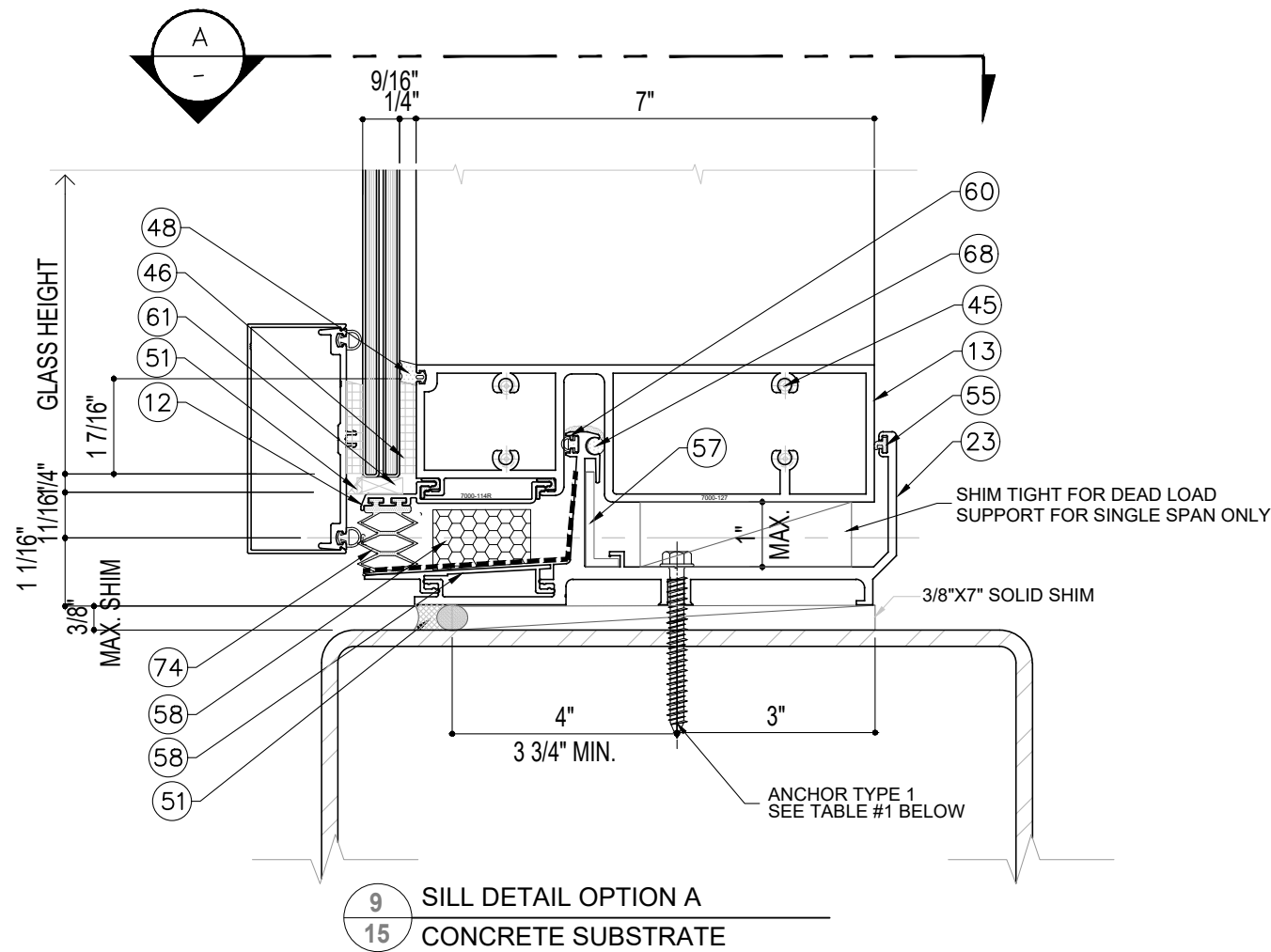
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DRAWING NO.	AD19-08A
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SECTION A-A

	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

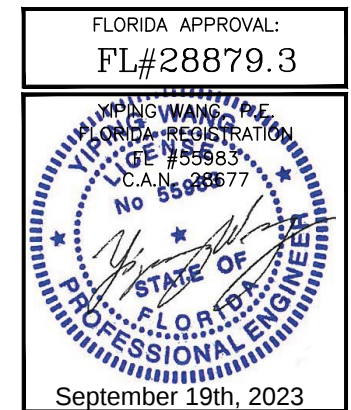
ANCHOR TYPE 1 :5/16" SELF DRILLING SCREWS
(GRADE 5 Fu=120ksi Fy=92ksi)
INTO METAL STRUCTURES

STEEL : 1/4" MIN. THICKNESS (Fy= 36 ksi 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.



NO.	DATE	DESCRIPTION
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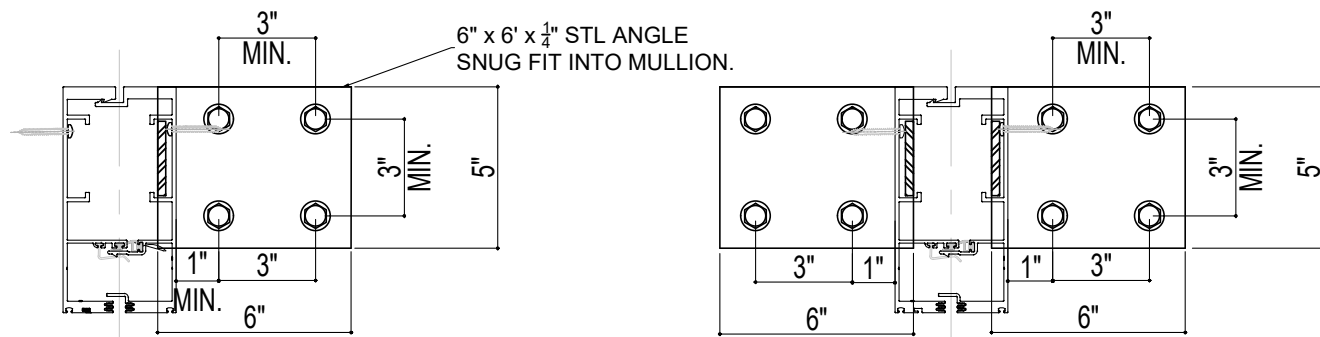
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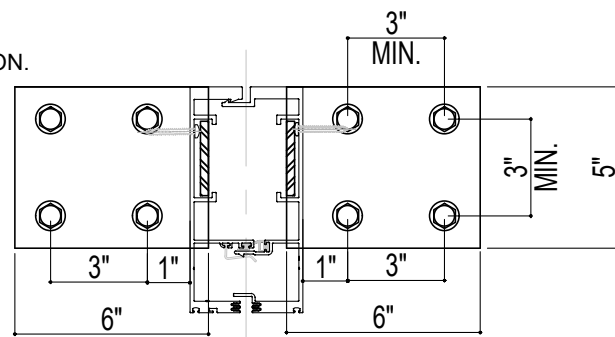
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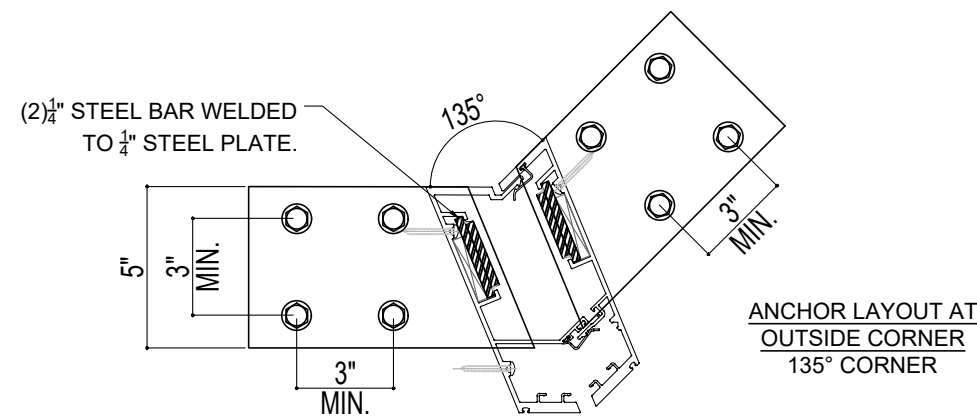
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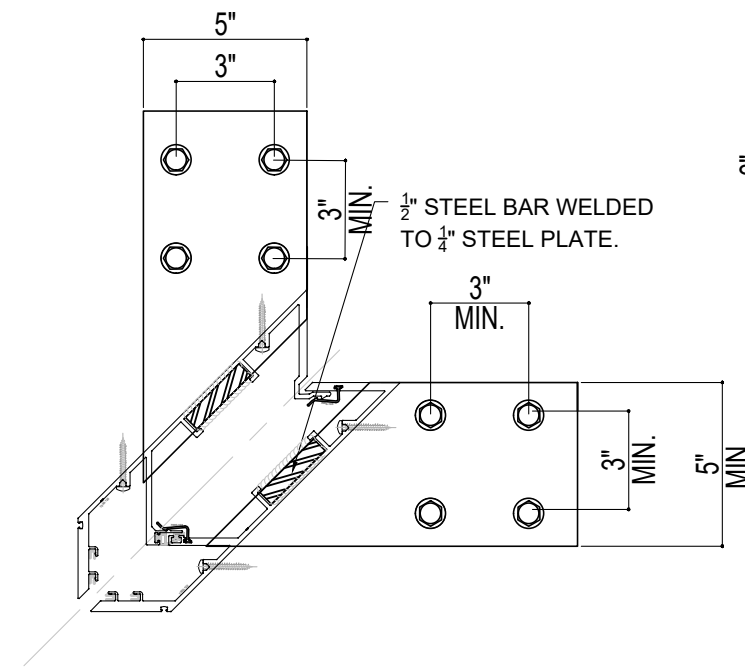
ANCHOR LAYOUT AT TYP. JAMB



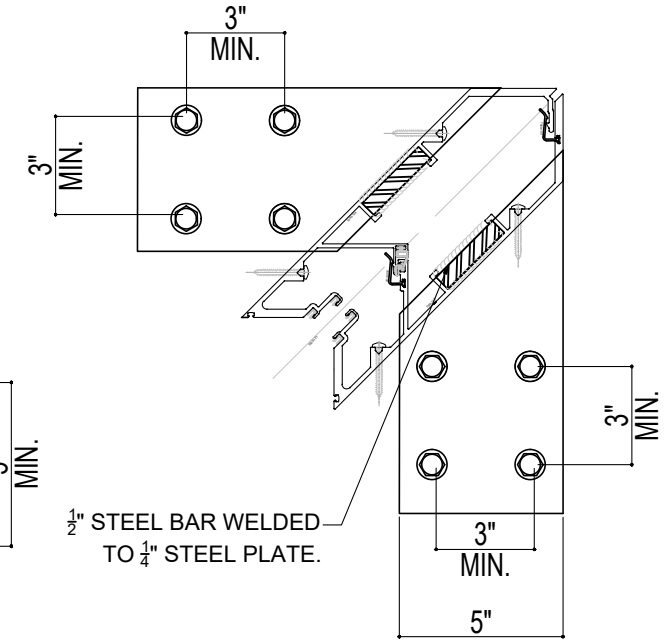
ANCHOR LAYOUT AT TYP. MULLION



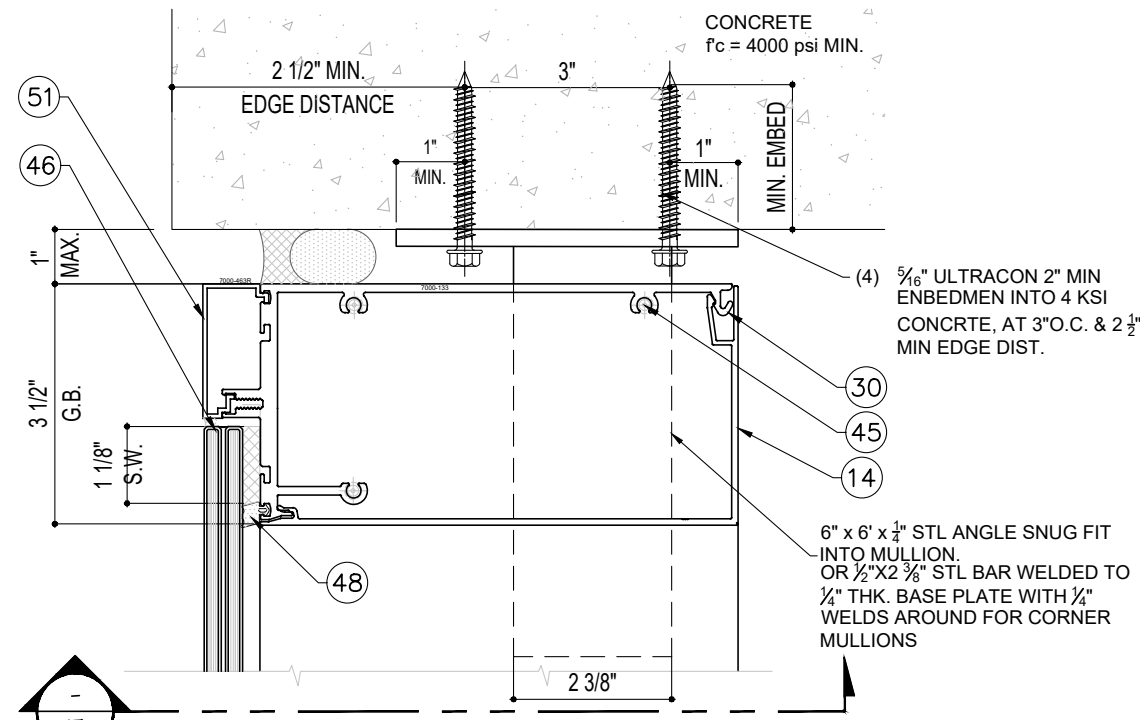
ANCHOR LAYOUT AT
OUTSIDE CORNER
135° CORNER



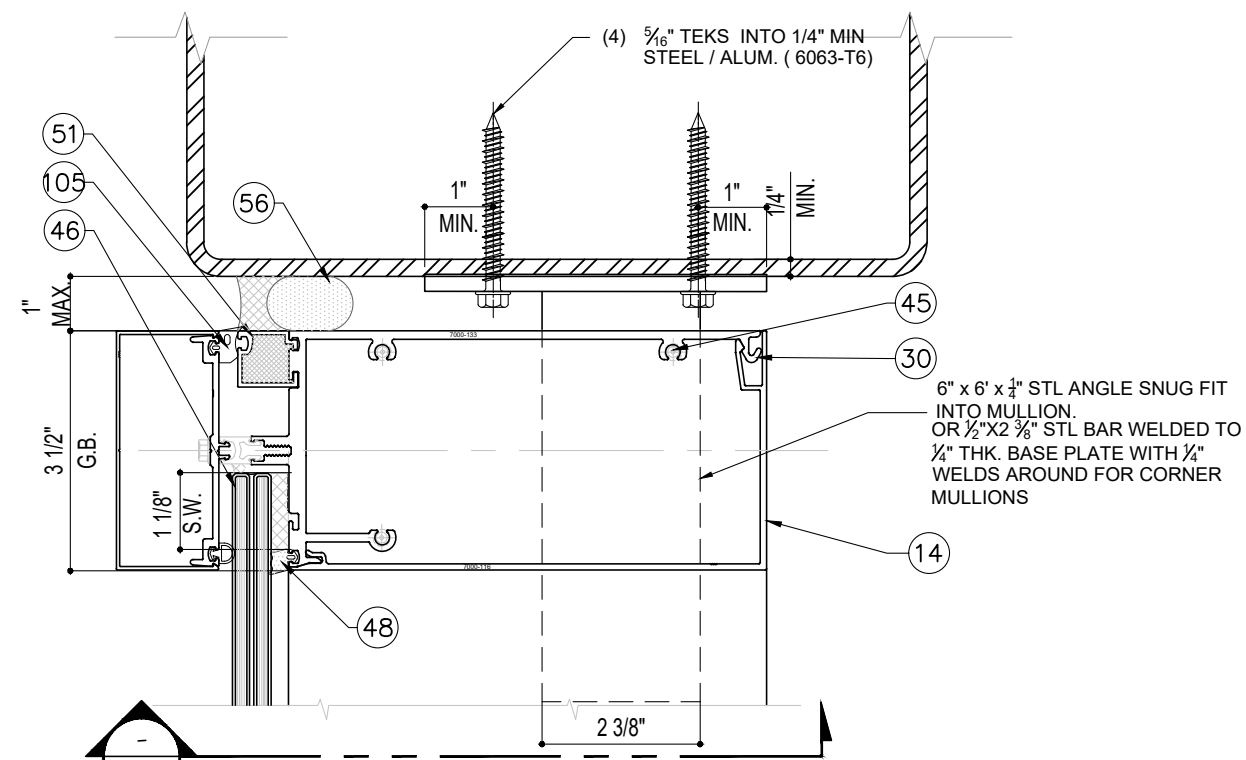
ANCHOR LAYOUT AT OUTSIDE CORNER
86.90°-90°-94.4° CORNER



ANCHOR LAYOUT AT INSIDE
CORNER

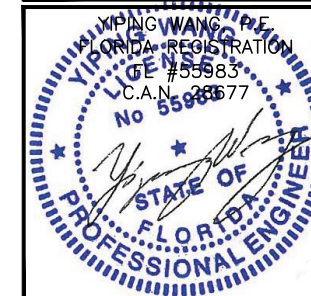


11 HEAD DETAIL OPTION A
17



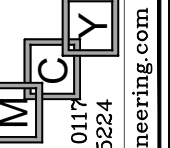
11 HEAD DETAIL OPTION B
17

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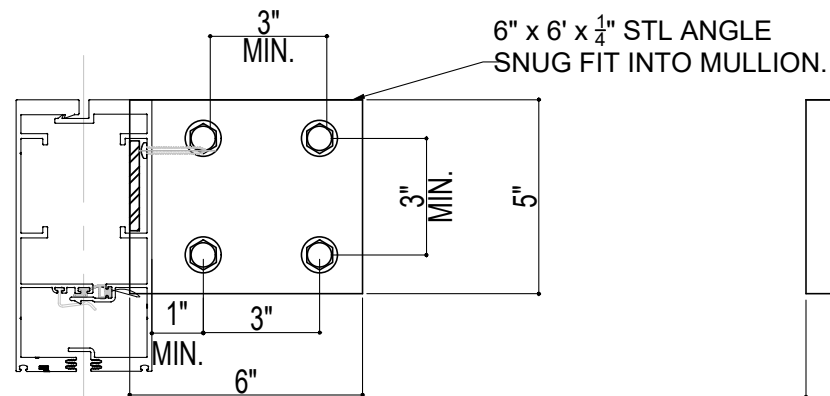
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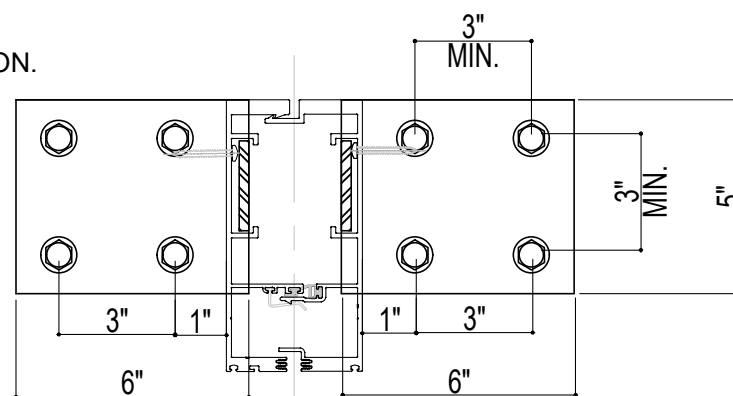
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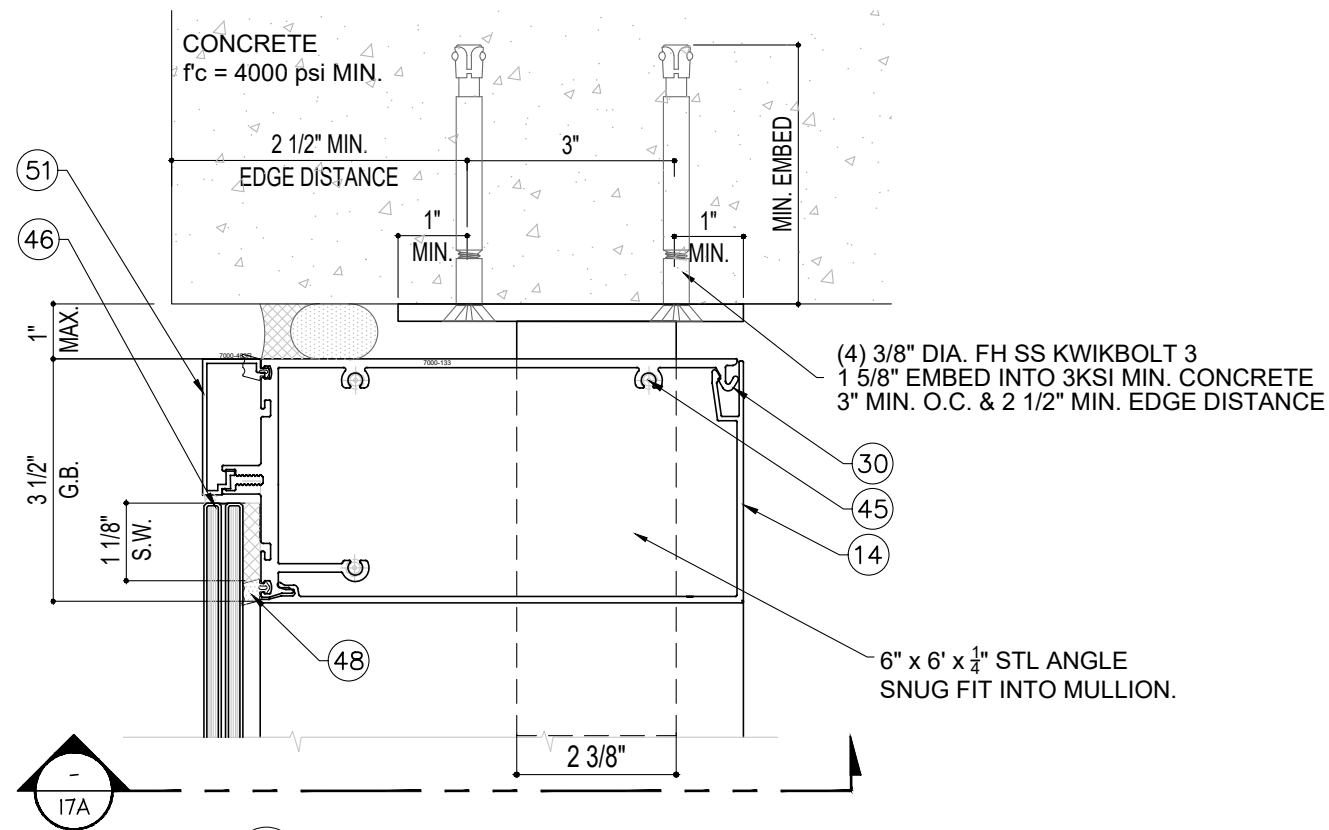
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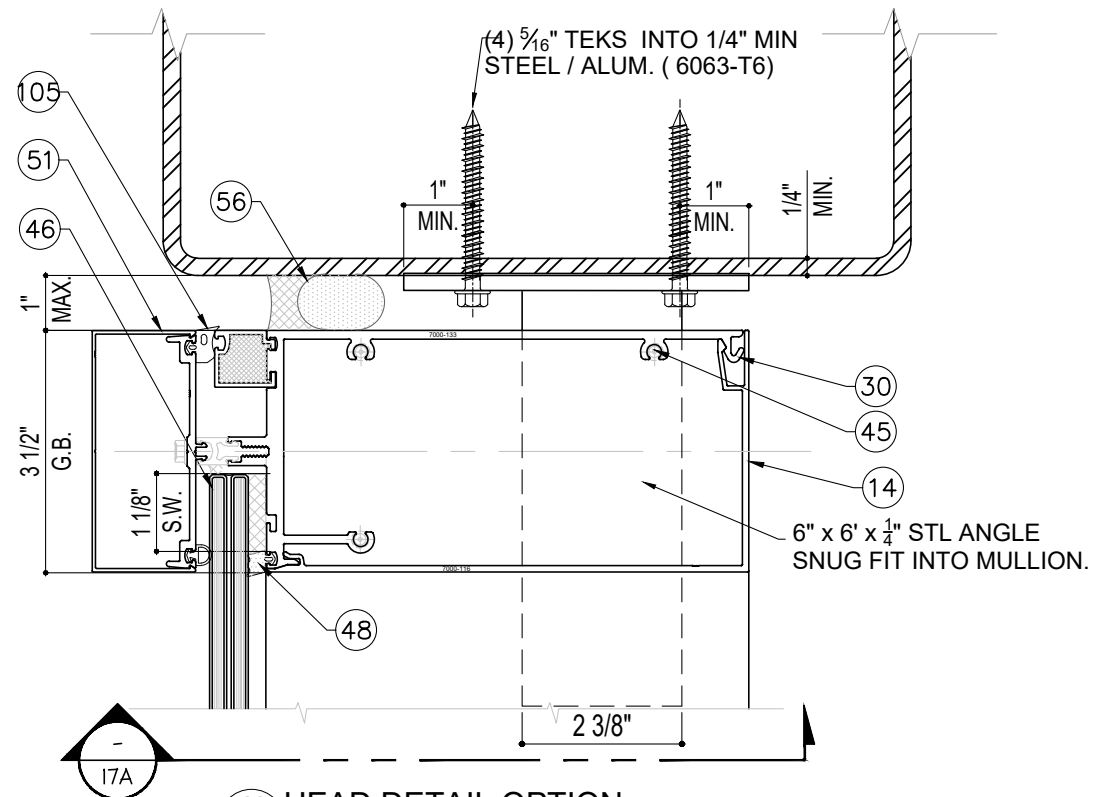
ANCHOR LAYOUT AT DOOR
JAMB - JAMB



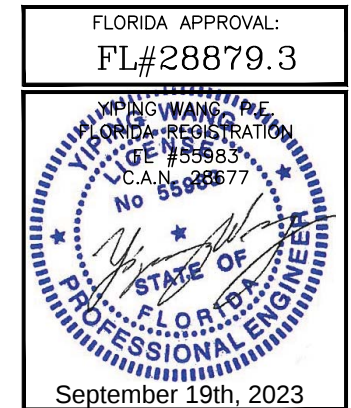
ANCHOR LAYOUT AT DOOR
JAMB MULLION



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



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



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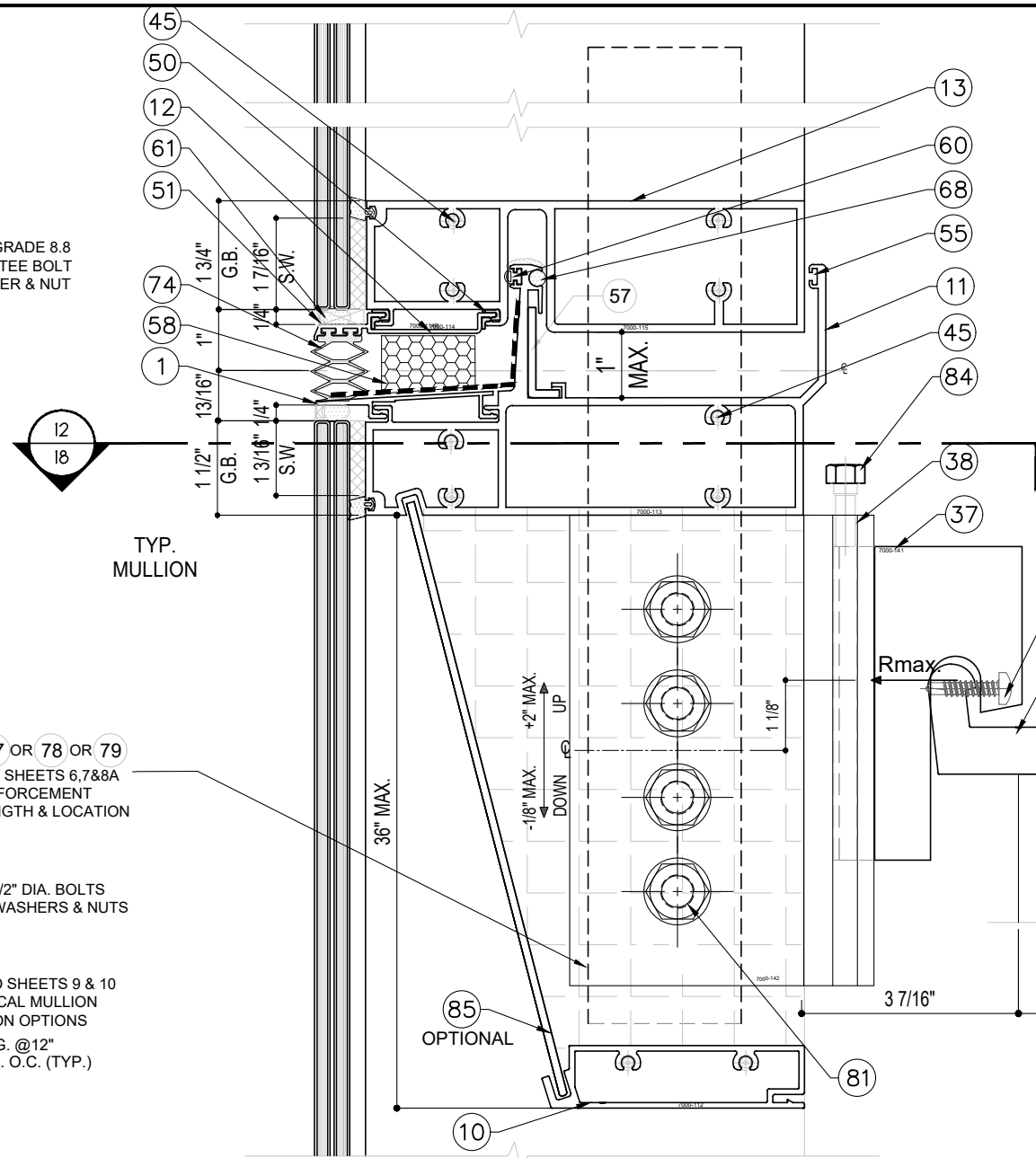
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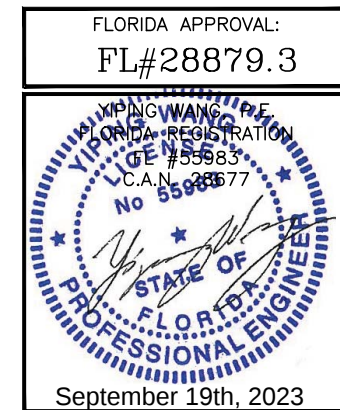
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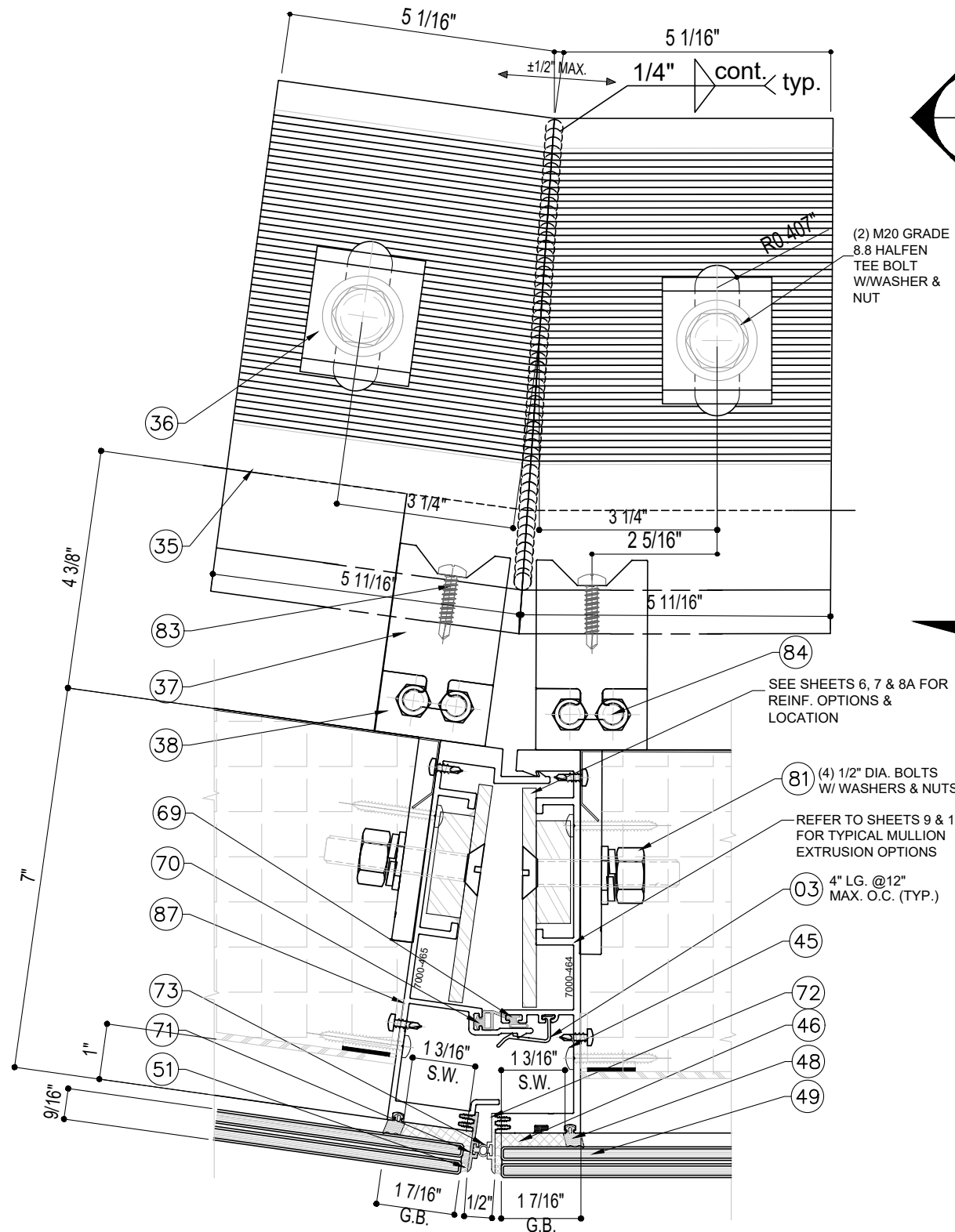
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DRAWING NO.	AD19-08A
17A OF 38	



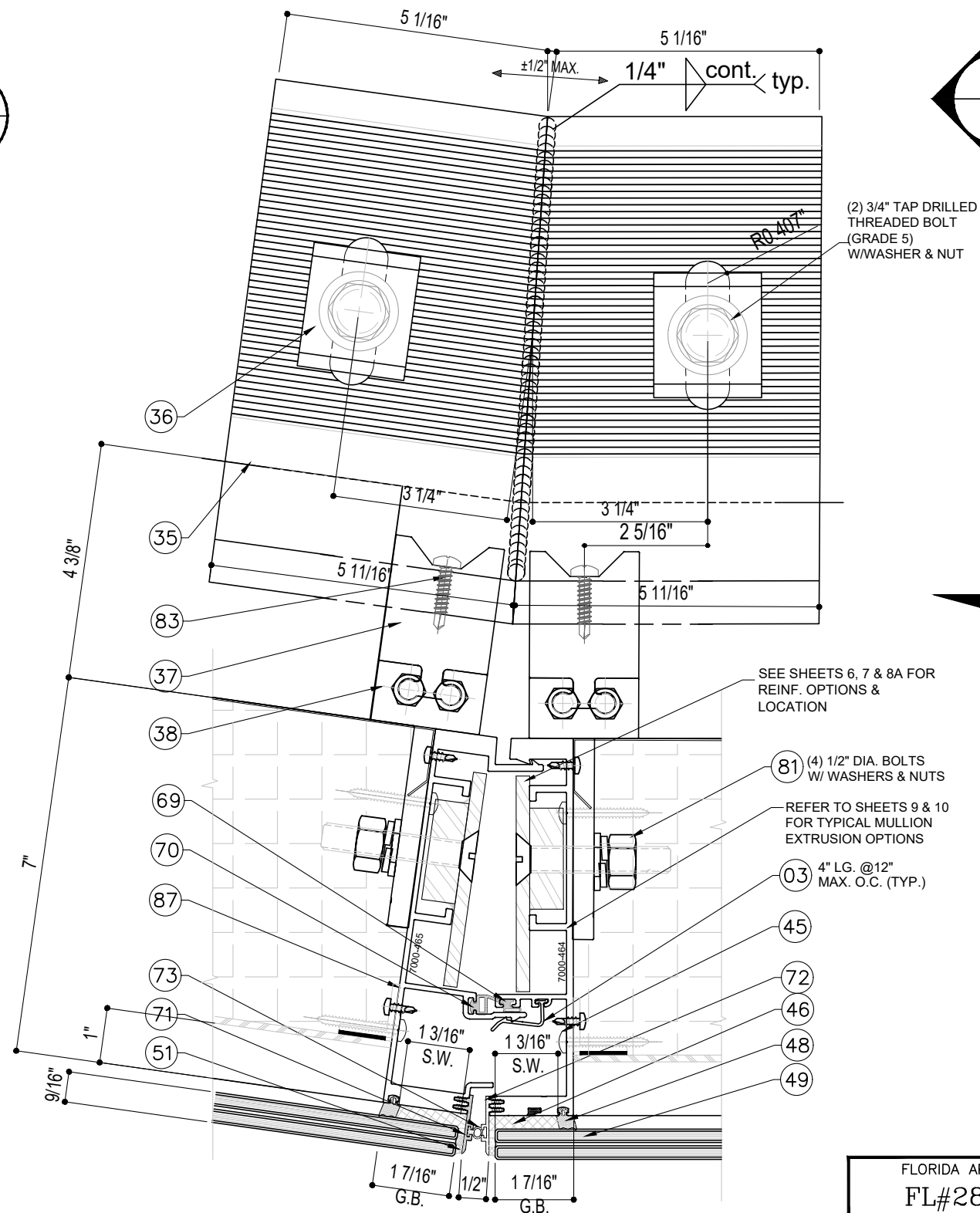
13 EXP. JOINT - ANCHOR TYPE A

18 SECTION

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



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

FLORIDA APPROVAL:
FL#28879.3

YIPANG WANG
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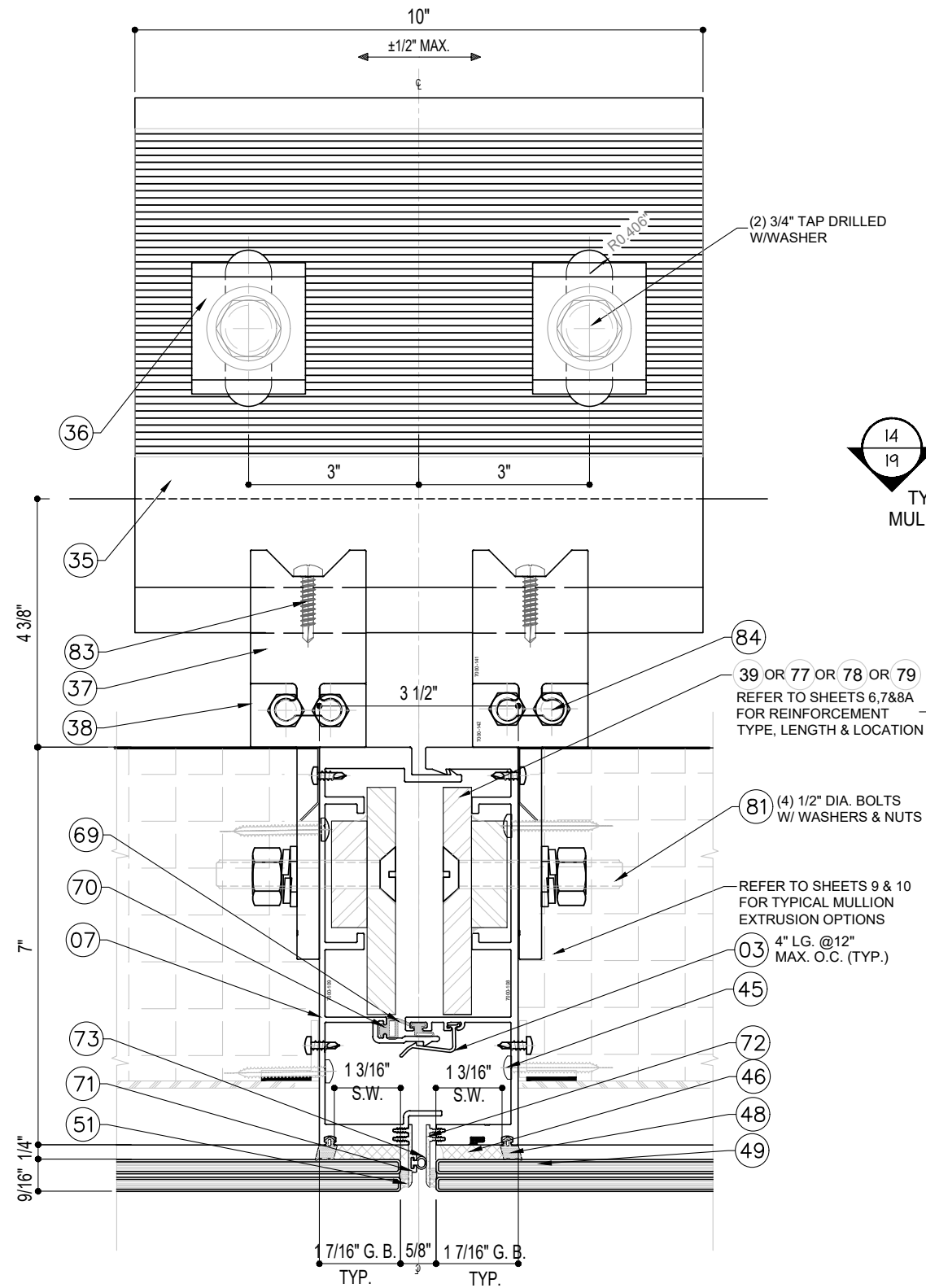
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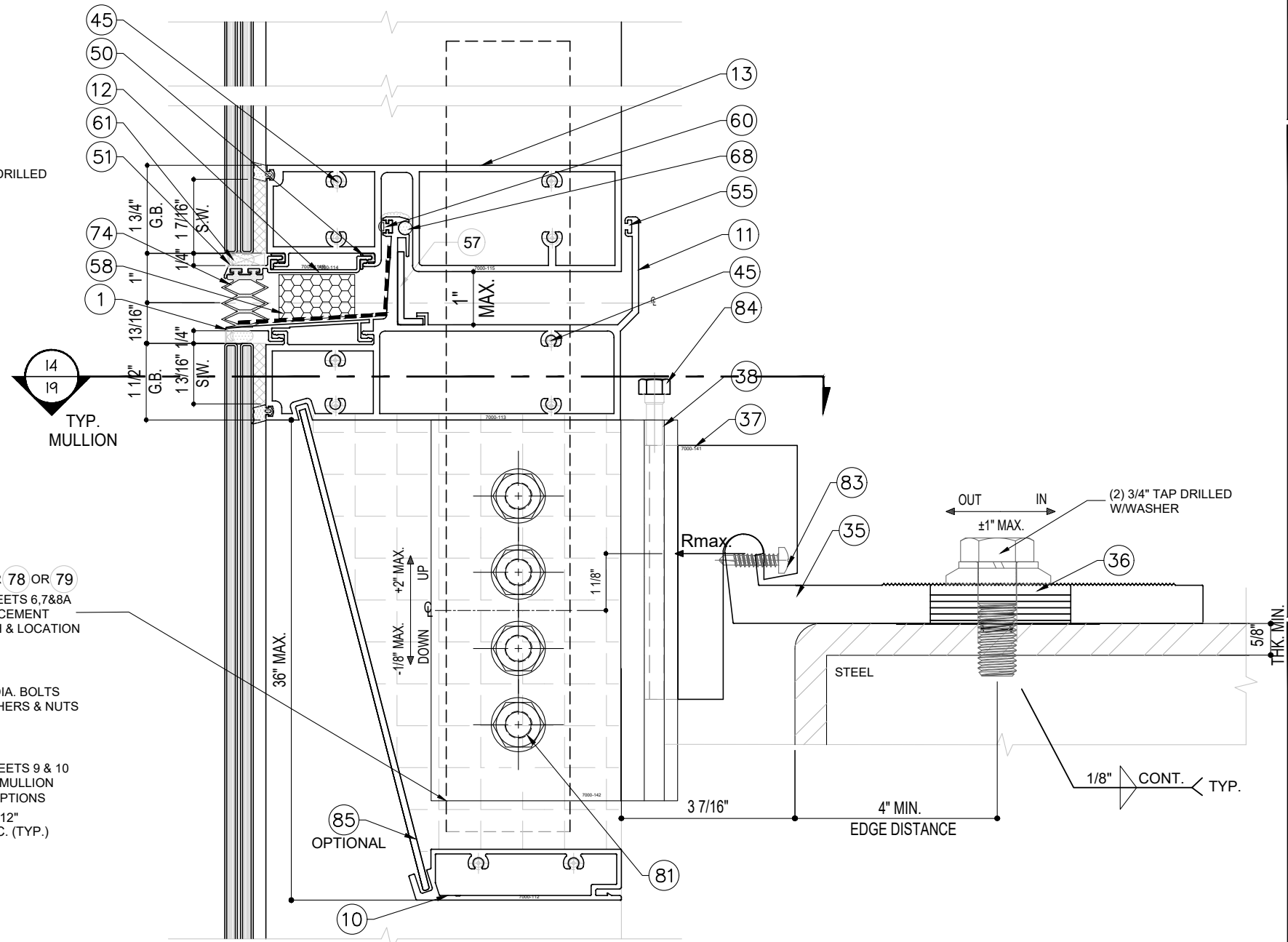
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14
19 TYP. MULLION - ANCHOR TYPE B



15
19 EXP. JOINT - ANCHOR TYPE B
SECTION

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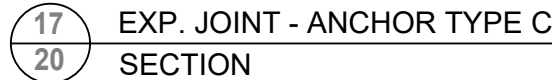
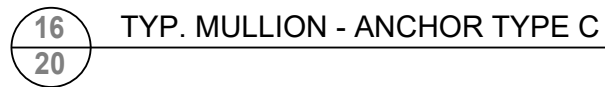
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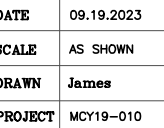
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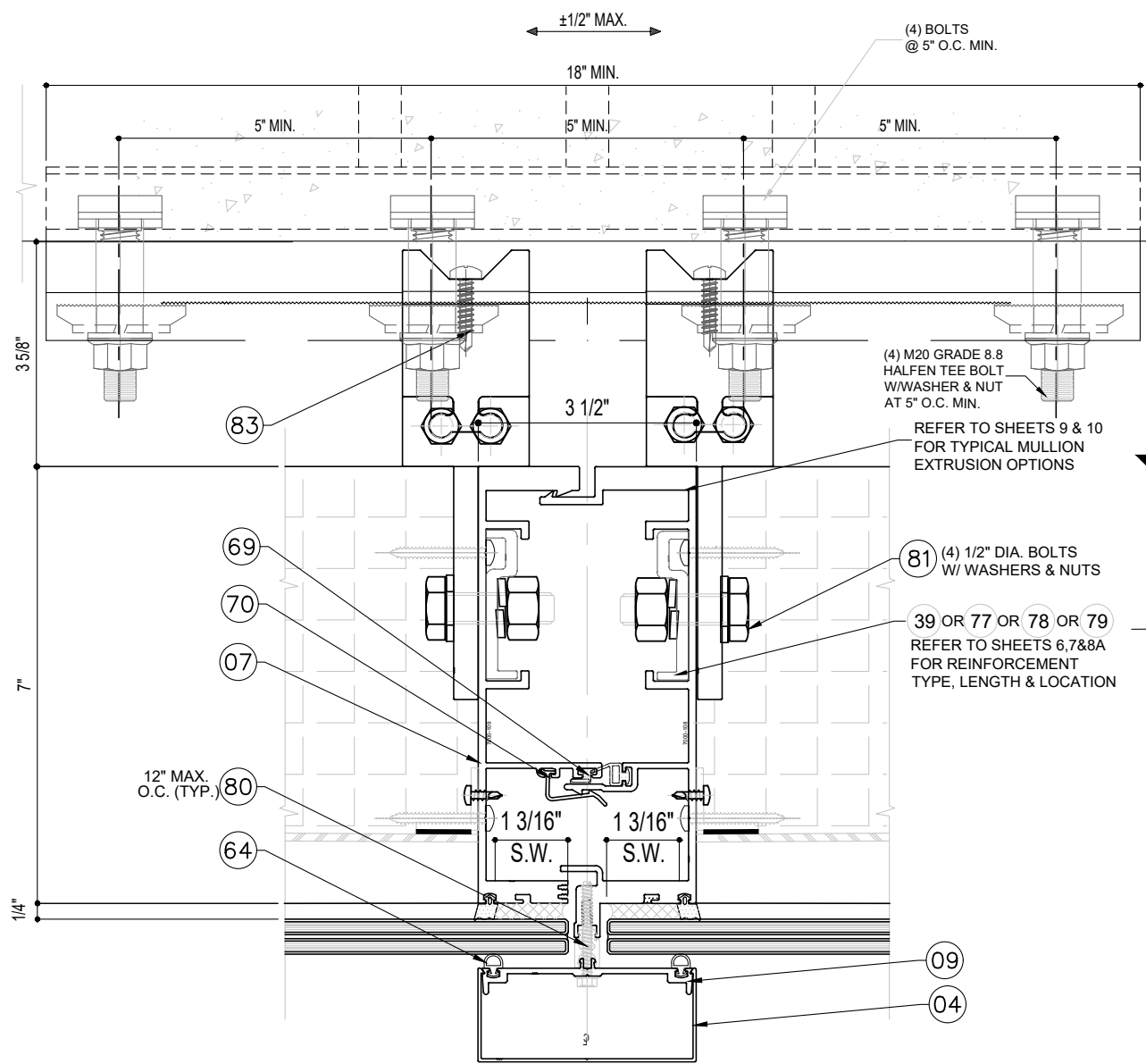
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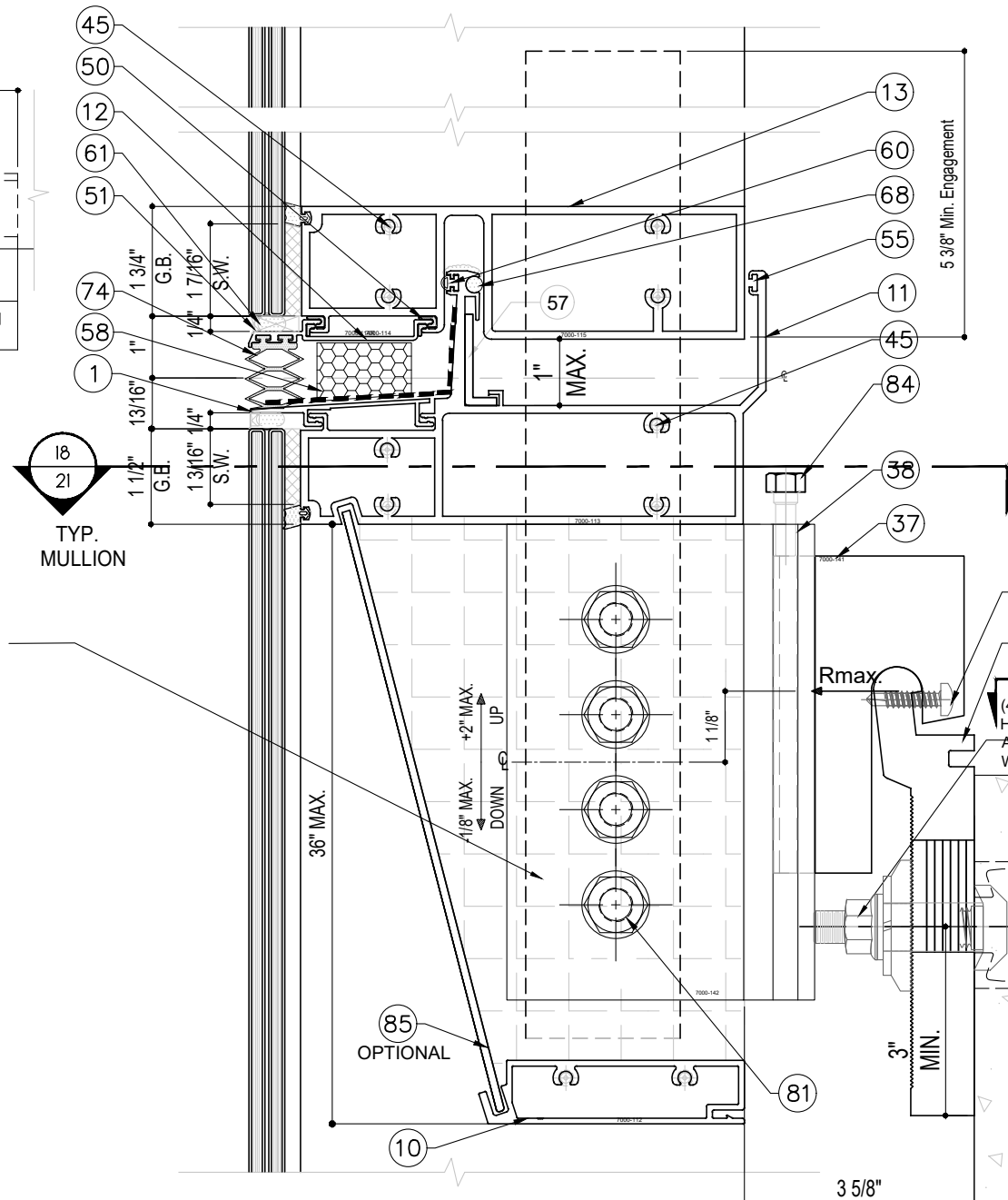
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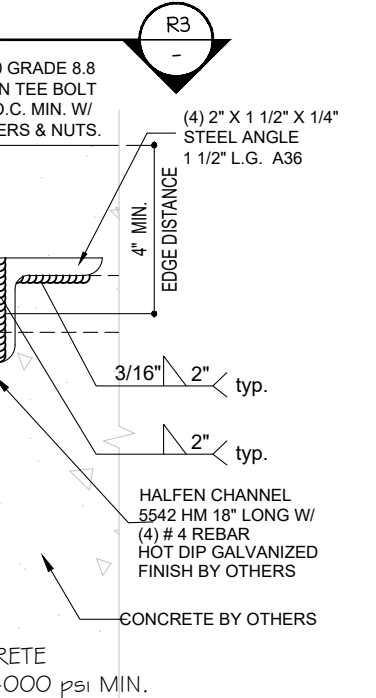
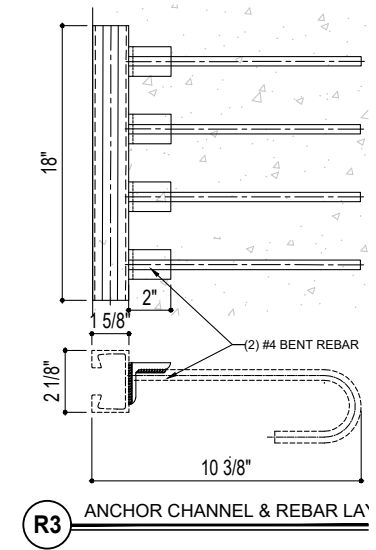
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18
21 TYP. MULLION - ANCHOR TYPE C



19
21 EXP. JOINT - ANCHOR TYPE C SECTION



FLORIDA APPROVAL:
FL#28879.3

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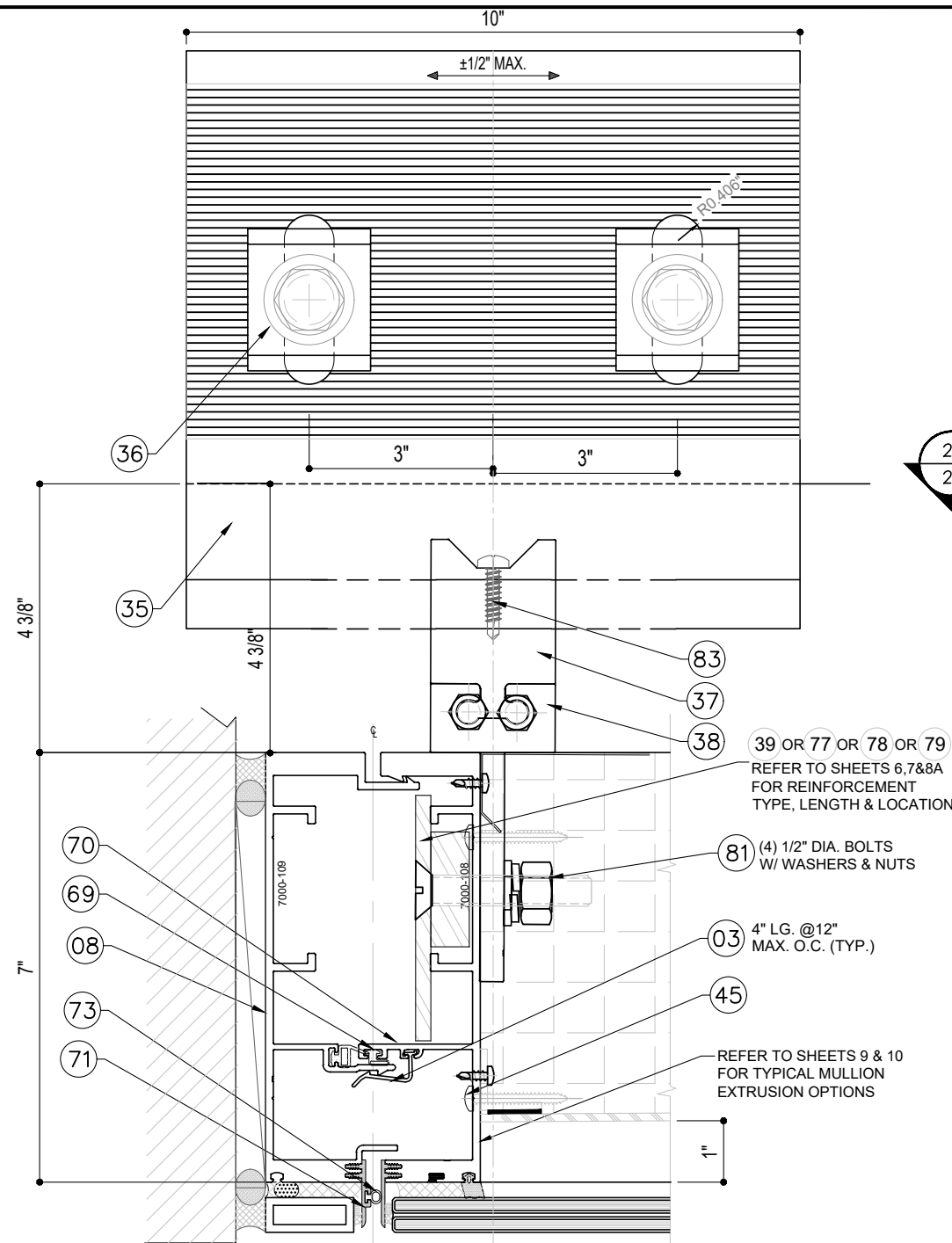
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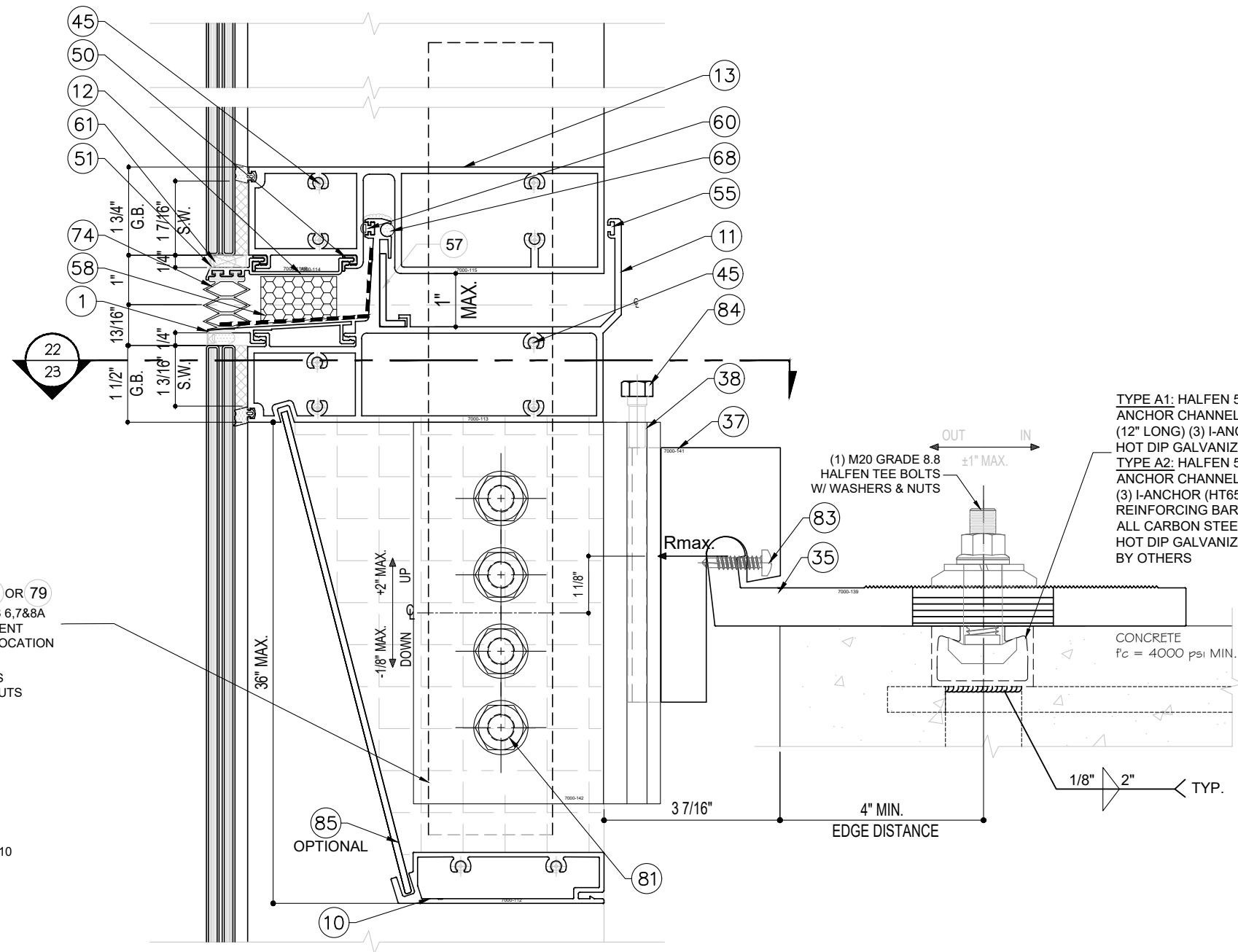


22
23 TYP. JAMB - ANCHOR TYPE A1, A2

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"
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192"	0.62"	0.75"
204"	0.65"	0.75"
208"	0.67"	0.75"

*JAMB SPAN: - ANCHOR C_L TO C_L



23
23 JAMB EXP. JOINT - ANCHOR TYPE A1, A2
SECTION

	SPAN (in)	MAX. DESIGN LOAD (PSF)				
		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 68 (12" LONG) (3) I-ANCHOR - 0 HOT DIP GALVANIZED FINISH
TYPE A2: HALFEN 5234 HTA ANCHOR CHANNEL 12" LONG (3) I-ANCHOR (HT6512) & (2) REINFORCING BAR ALL CARBON STEEL HOT DIP GALVANIZED FINISH BY OTHERS

(1) M20 GRADE 8.8 HALFEN TEE BOLTS W/ WASHERS & NUTS
CONCRETE $f_c = 4000 \text{ psi MIN.}$
4" MIN. EDGE DISTANCE
1/8" 2" TYP.

FLORIDA APPROVAL:
FL#28879.3

YIPANG WANG
FLORIDA REGISTRATION
CE #55983
C.A.N. #8677

September 19th, 2023

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R2	09.19.2023	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

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MIAMAR, FL 33027

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SERIES 7000 ALUMINUM CURTAIN WALL LAM. GLASS - SMI

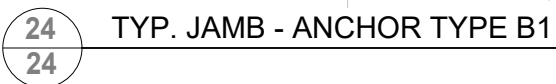
TECNOGLASS, LLC
3550 NW 49TH STREET
MIAMI, FL 33142

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

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SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08A

23 OF 38



*JAMB SPAN: - ANCHOR C_L TO C_L



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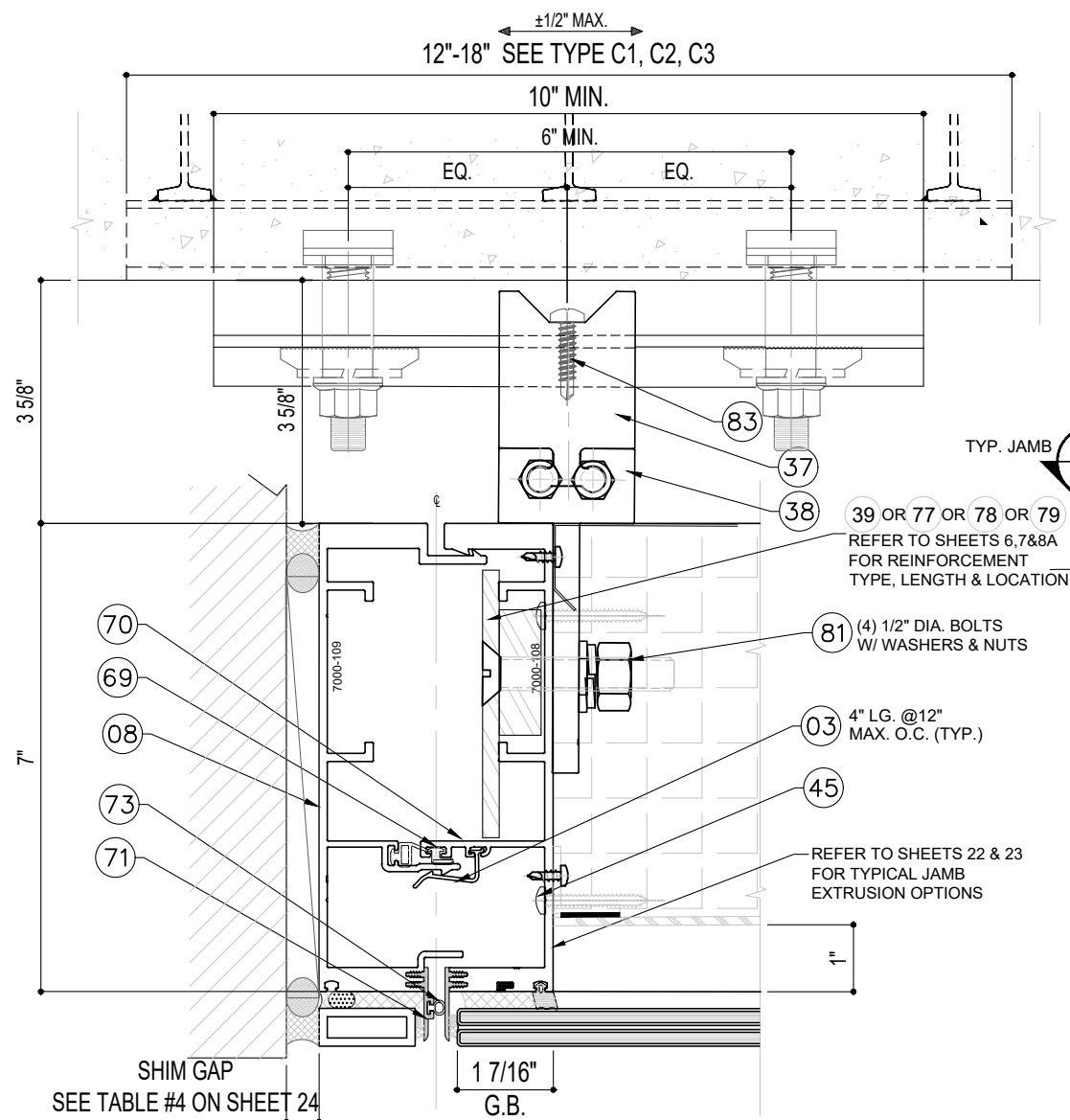
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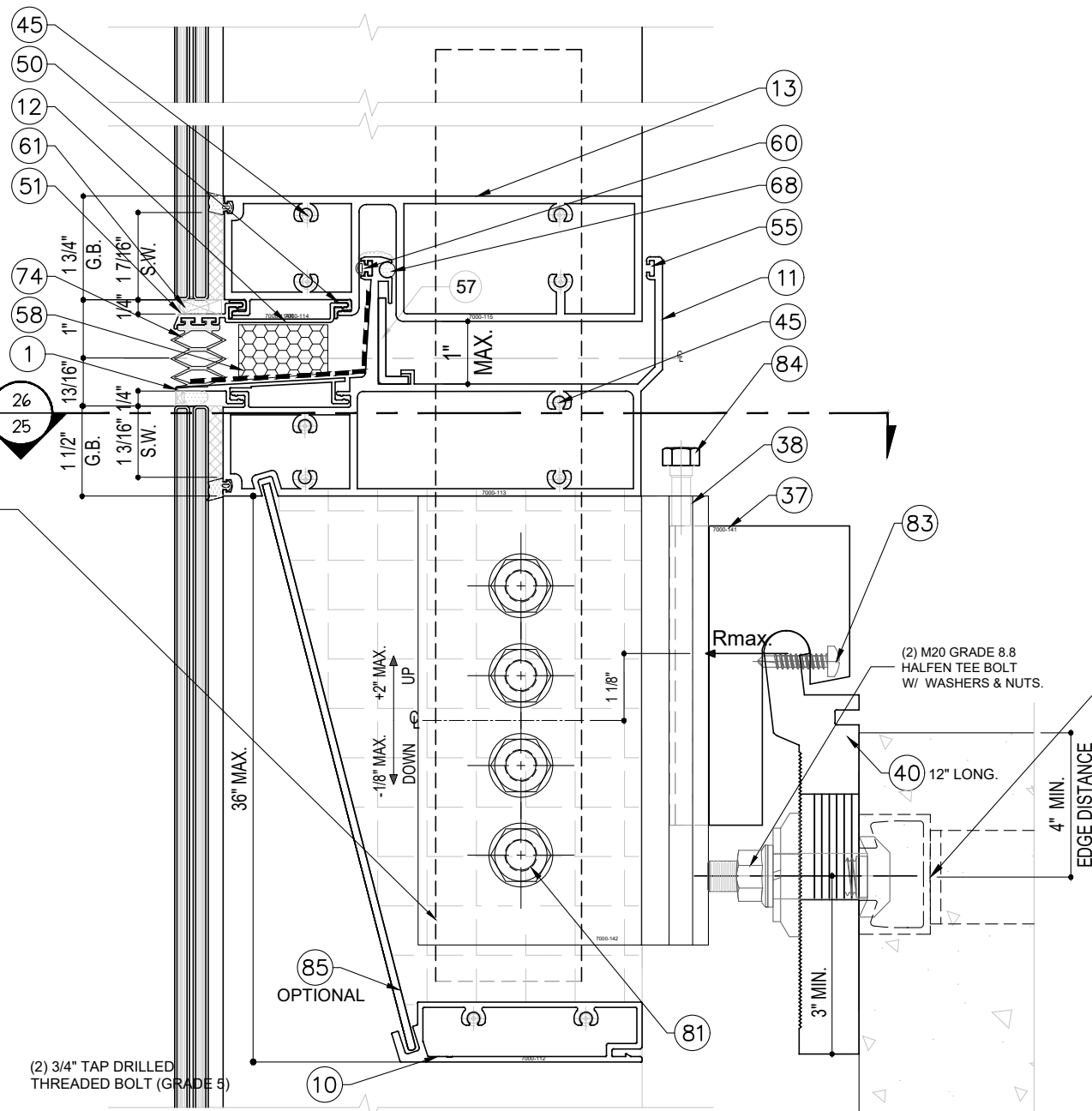
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26
25 TYP. JAMB - ANCHOR TYPE C1, C2, C3

	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#28879.3

YIPANG WANG, P.E.
 FLORIDA REGISTRATION
 CE #55983
 C.A.N. #8677

September 19th, 2023

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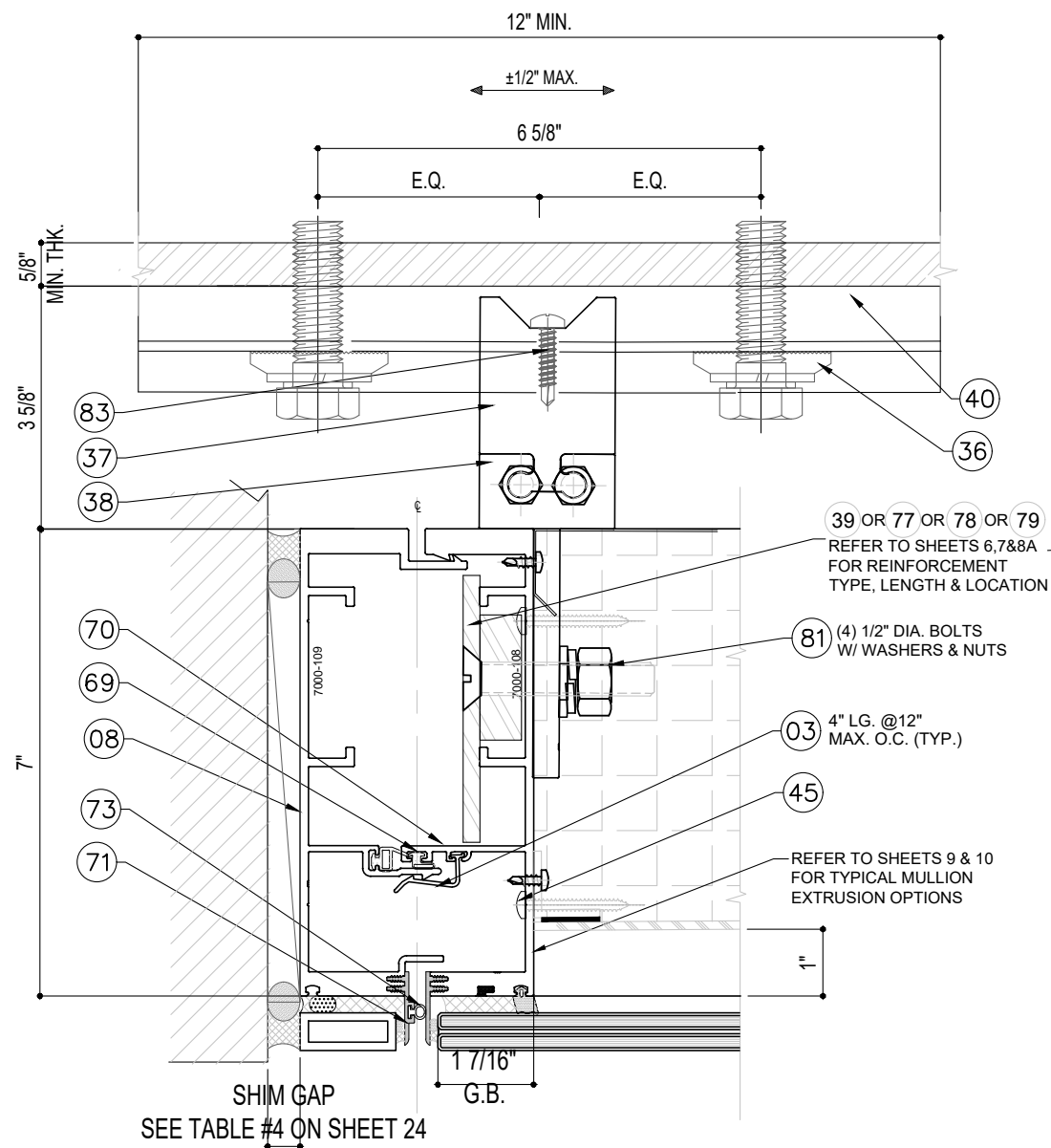
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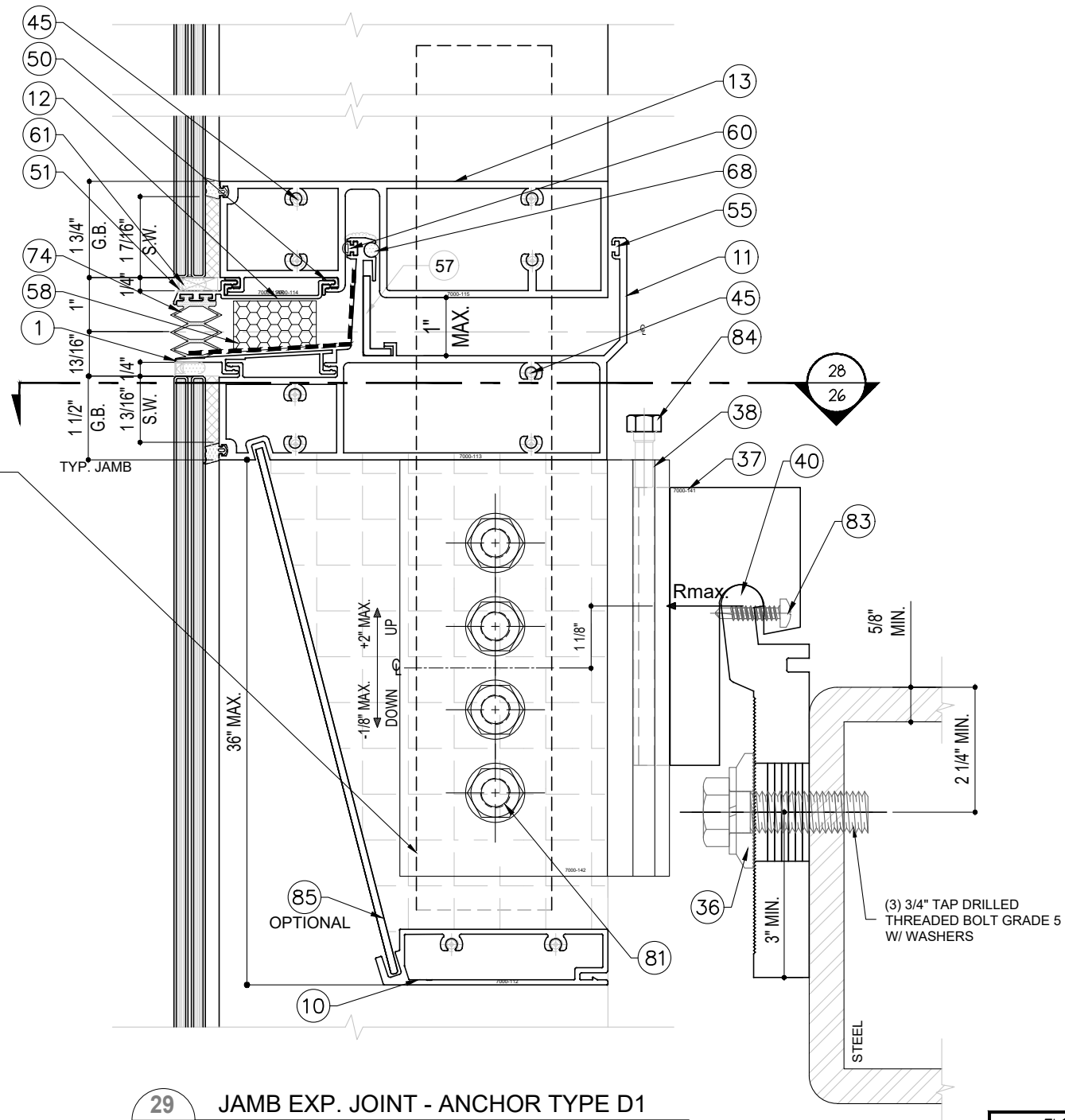
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28
26 TYP. JAMB - ANCHOR TYPE D1



29
26 JAMB EXP. JOINT - ANCHOR TYPE D1 SECTION

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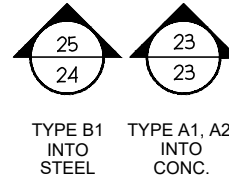
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30 INSIDE CORNER MULL. - ANCHOR TYPE A1, A2 OR B1

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

FLORIDA APPROVAL:

FL#28879.3

YIPING WANG
FLORIDA - REGISTRATION
CE #55983
C.A.N. 28677

No 55983

STATE OF FLORIDA
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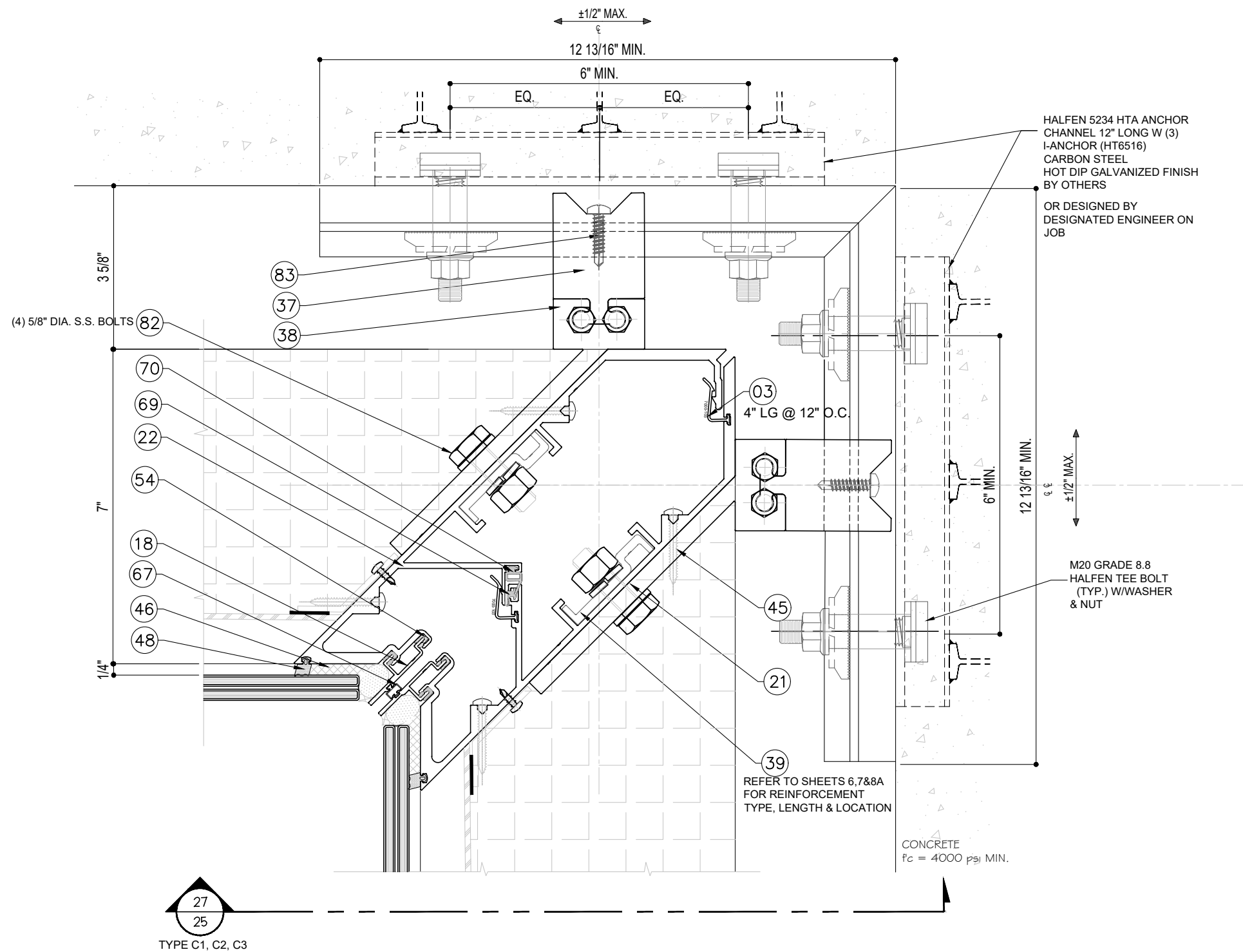
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27
25
TYPE C1, C2, C3

31
28
INSIDE CORNER MULL. - ANCHOR TYPE C1, C2, C3
SEE CAPACITY CHART ON SHEET 25

FLORIDA APPROVAL:
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YIPANG WANG
FLORIDA REGISTRATION
No 55983
C.A.N. 88677

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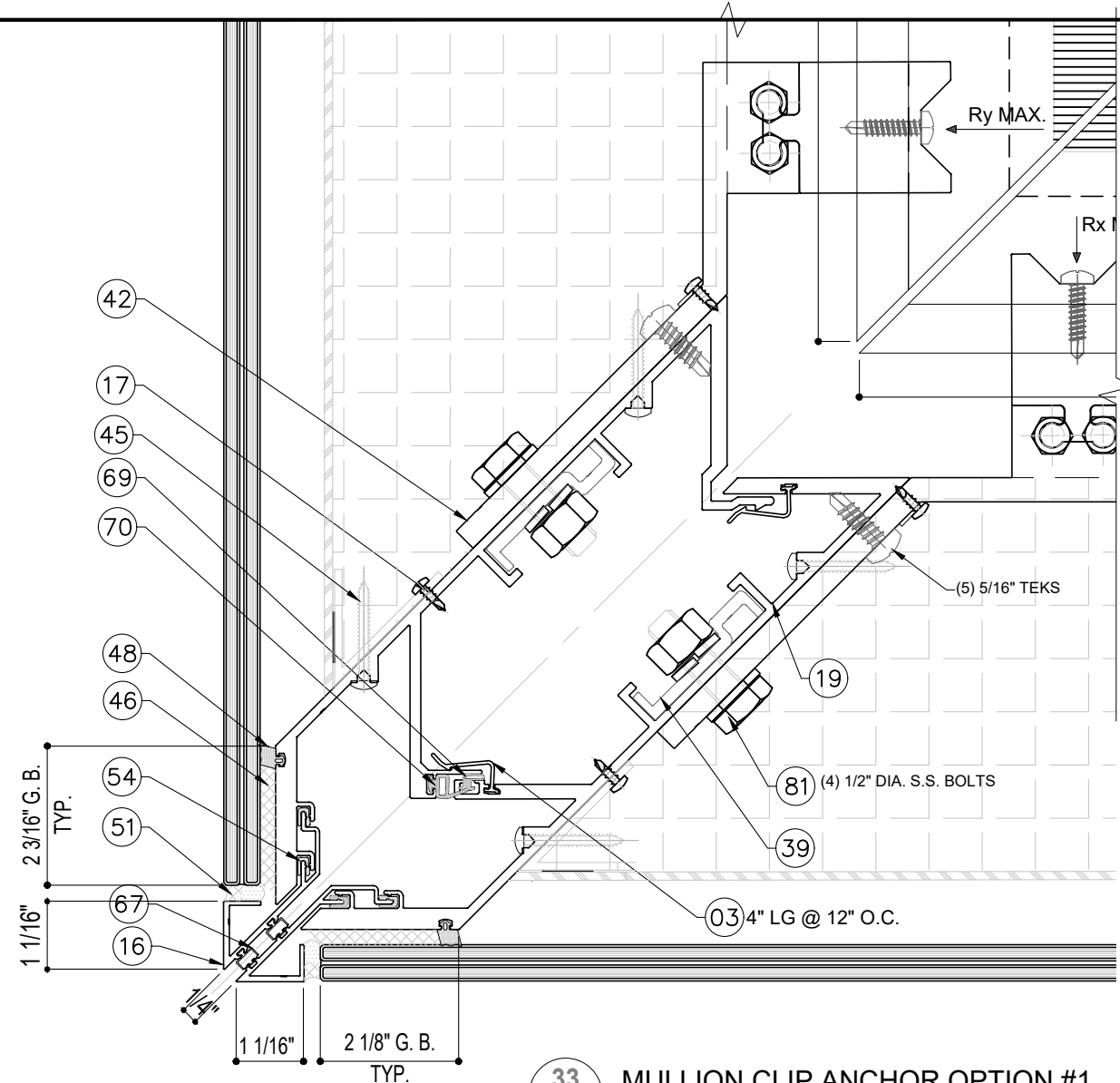
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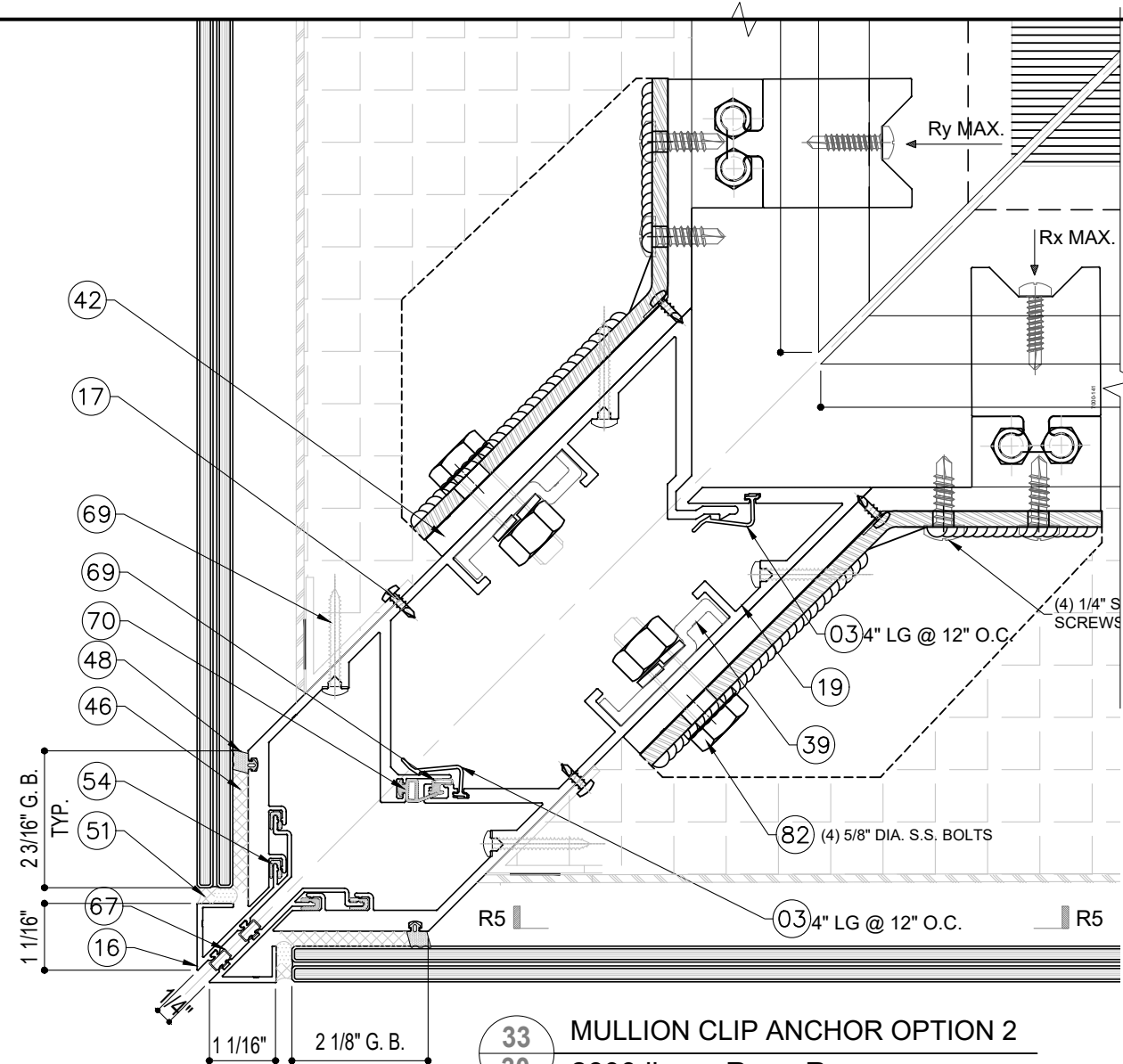
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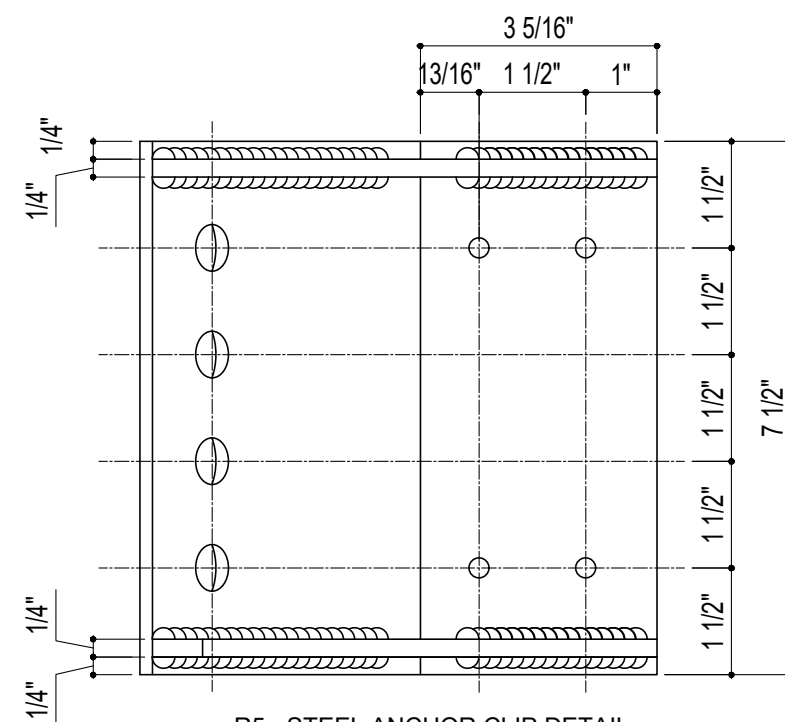


33
30 MULLION CLIP ANCHOR OPTION #1
Rx OR Ry ≤ 2600 lbf



33
30 MULLION CLIP ANCHOR OPTION 2
2600 lbs < Rx or Ry

	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



R5 - STEEL ANCHOR CLIP DETAIL
FRONT VIEW

FLORIDA APPROVAL:
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YIPANG WANG, P.E.
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C.A.N. #3677

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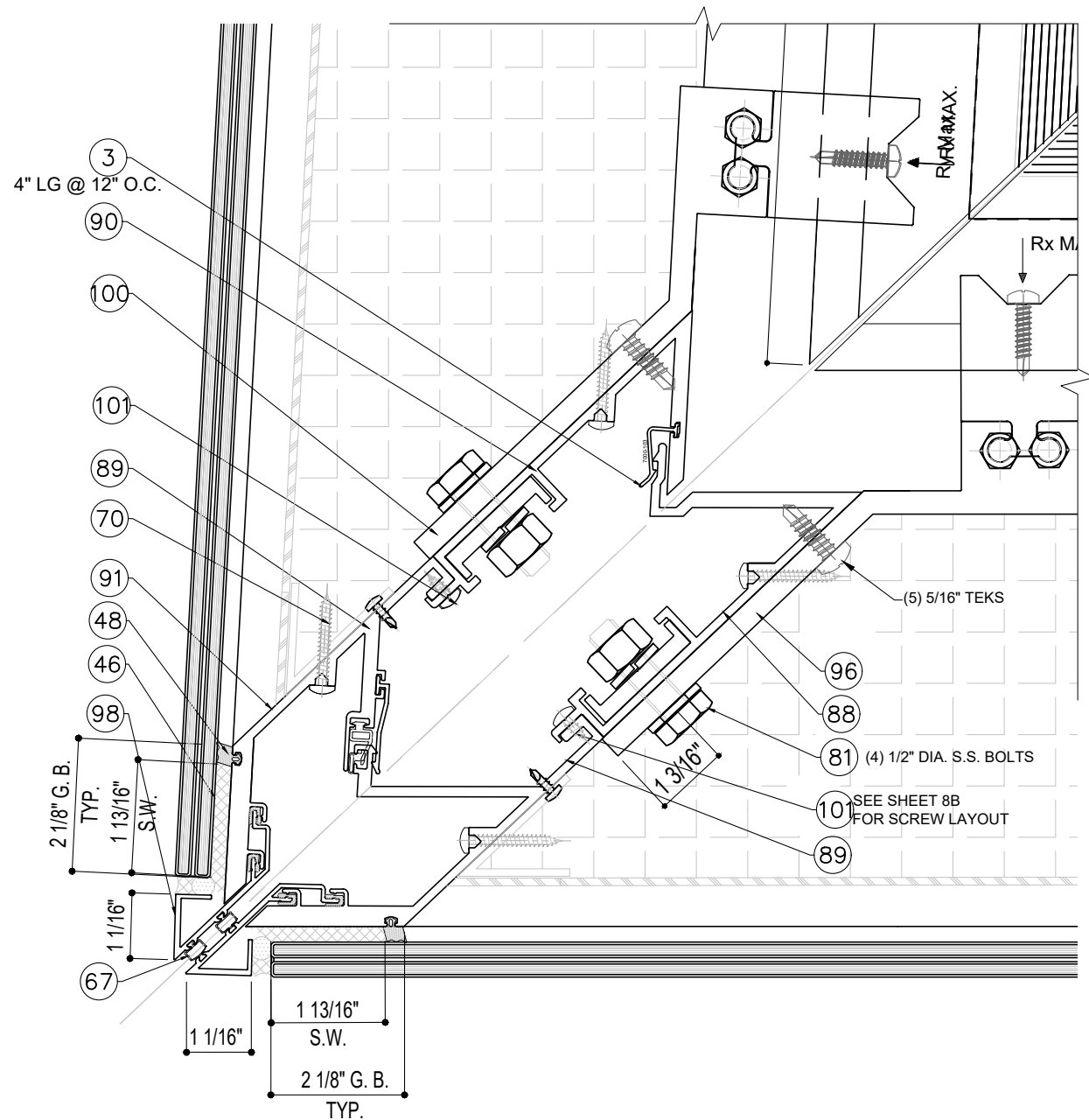
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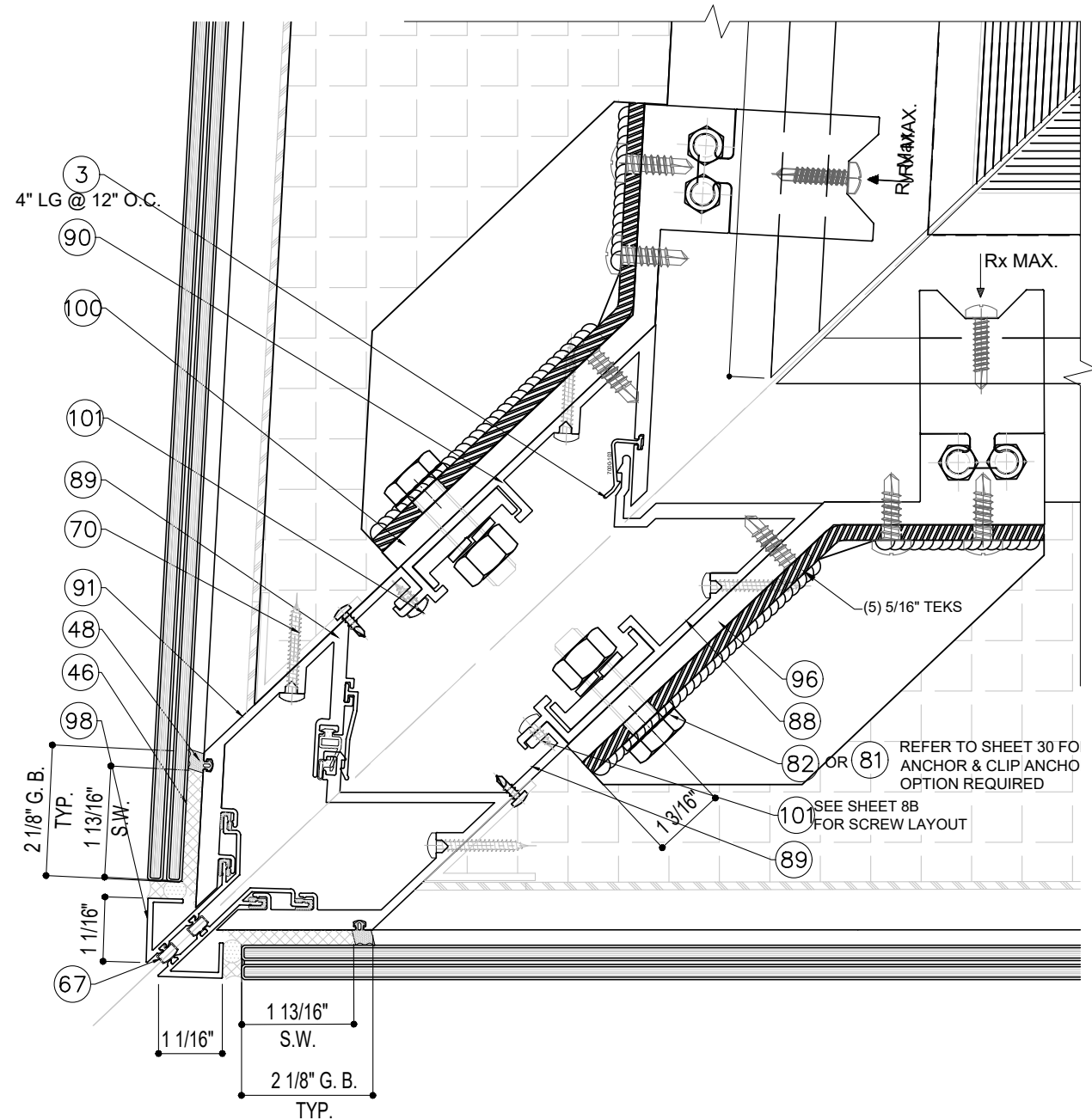
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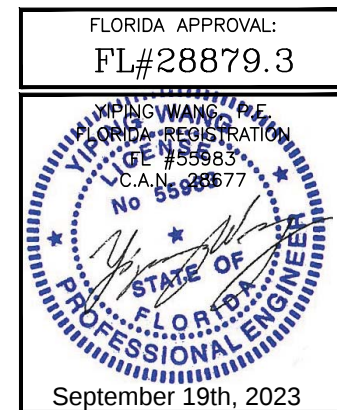


33A
30A MULLION 86.90° CORNER CLIP ANCHOR OPTION 1
Rx or Ry ≤ 2600 lbs

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



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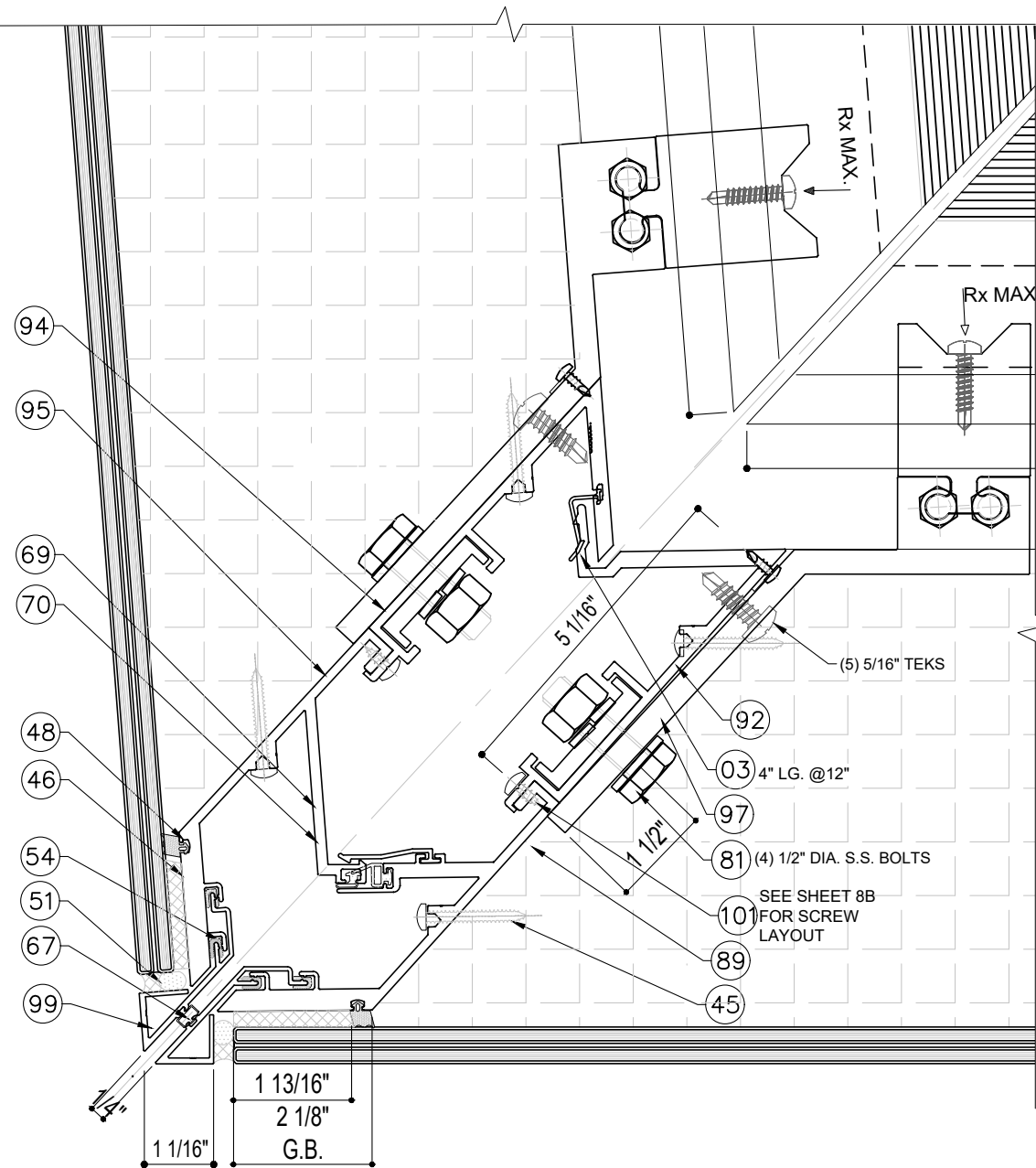
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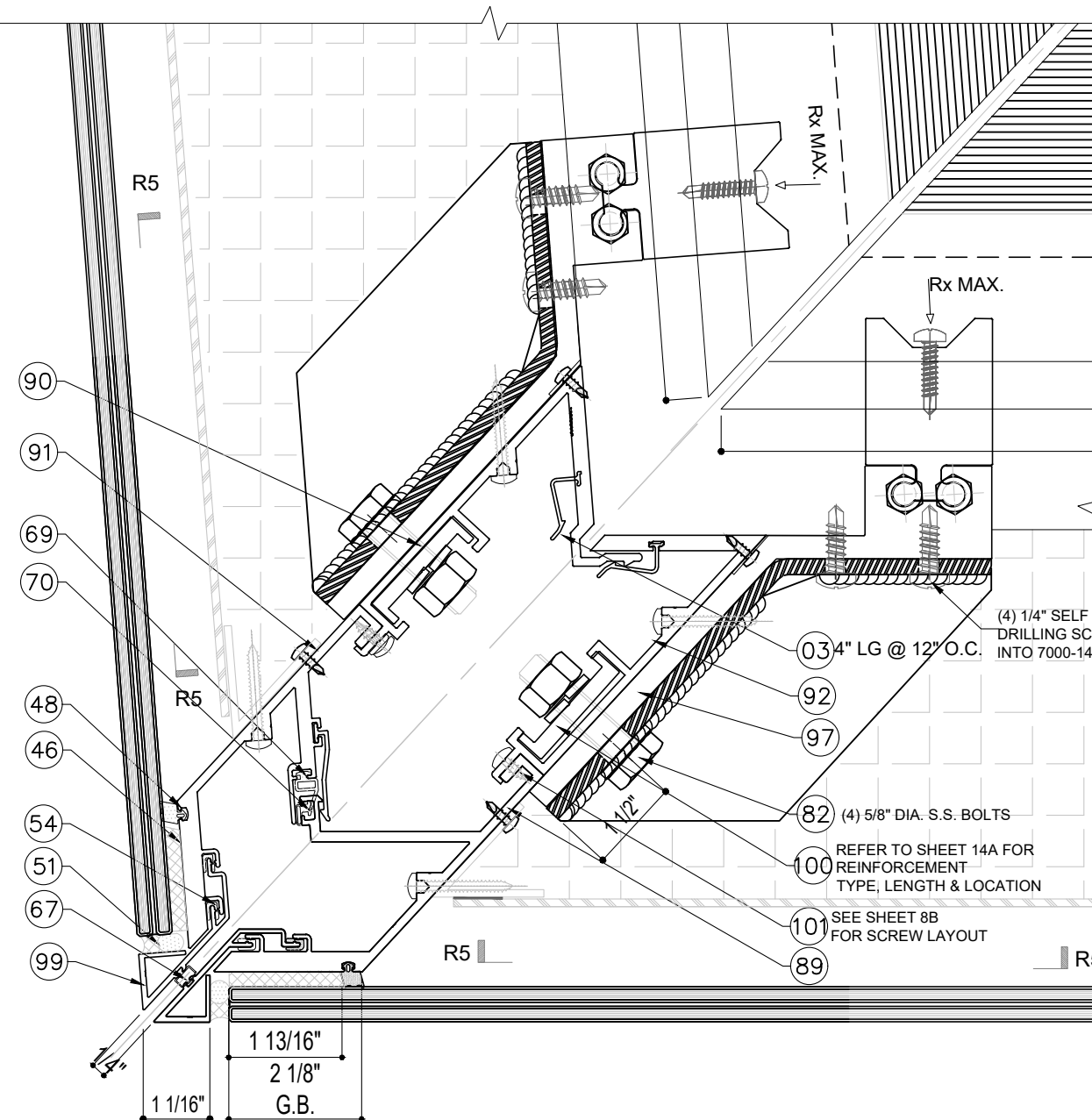
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DRAWN	James
PROJECT	MCY19-010
DRAWING NO.	AD19-08A
	30A OF 38

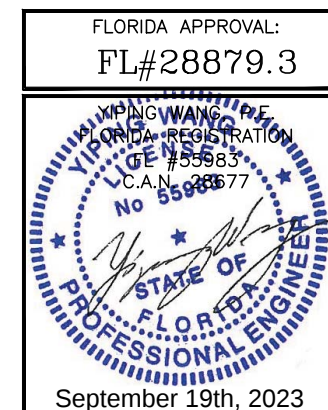


33B
30B MULLION 94.40° CORNER CLIP ANCHOR OPTION 1
Rx or Ry ≤ 2600 lbs

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



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



NO.	DATE	DESCRIPTION
R2	09.19.2023	FBC 2023

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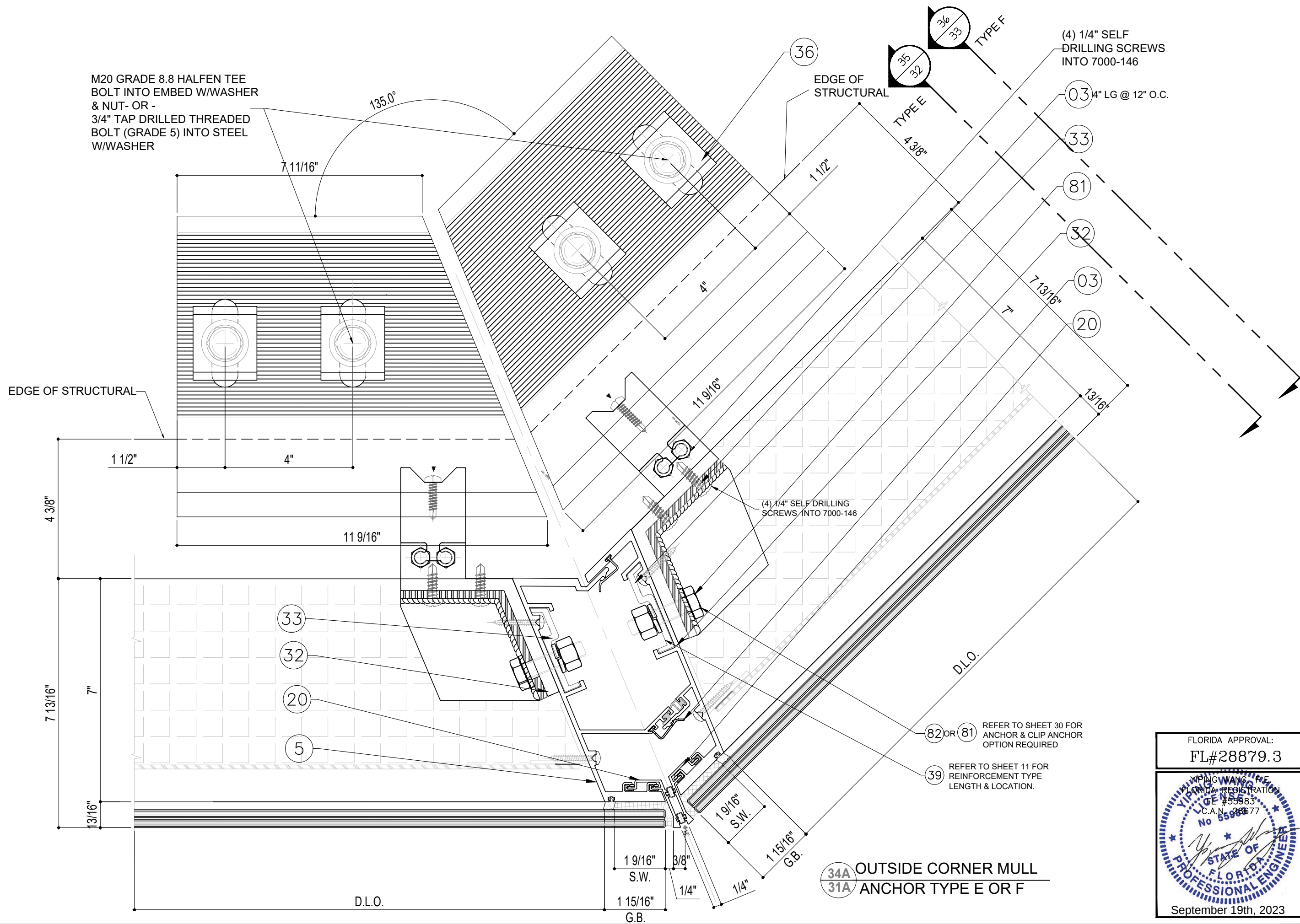
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DRAWING NO.	AD19-08A
	30B OF 38



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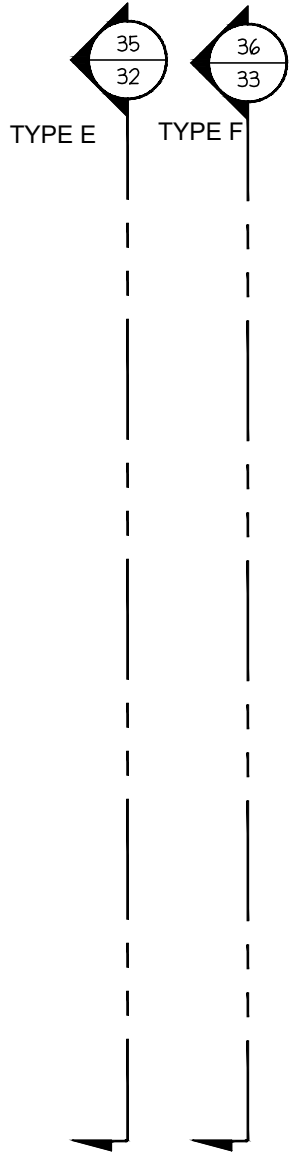
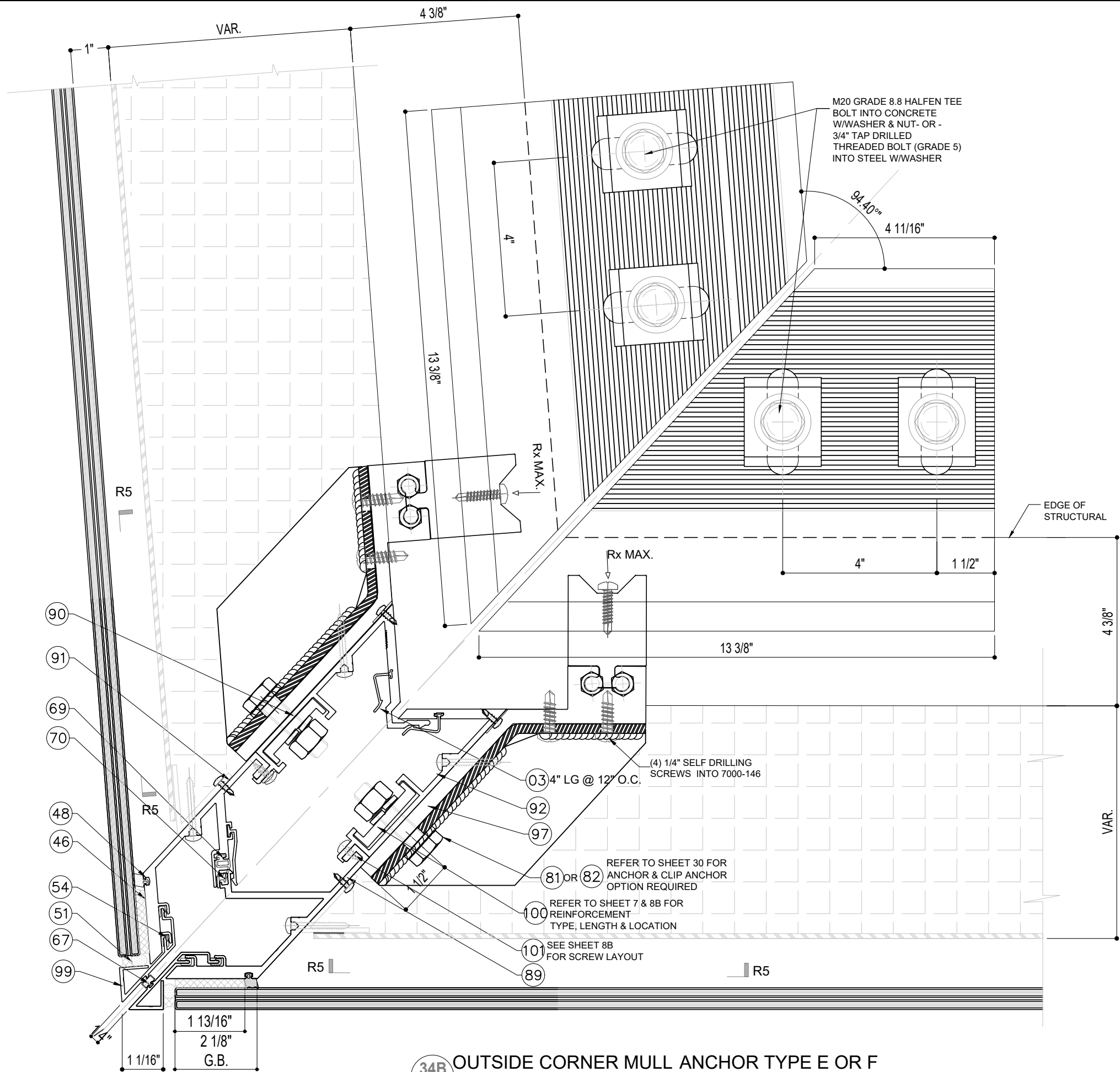
FLORIDA APPROVAL:
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YIPING WANG
FLORIDA REGISTRATION
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C.A.N. #36677

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DRAWING NO.	
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31A OF 38	



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

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FLORIDA REGISTRATION
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4	09.19.2023
5	09.19.2023
6	09.19.2023
7	09.19.2023
8	09.19.2023
9	09.19.2023
10	09.19.2023

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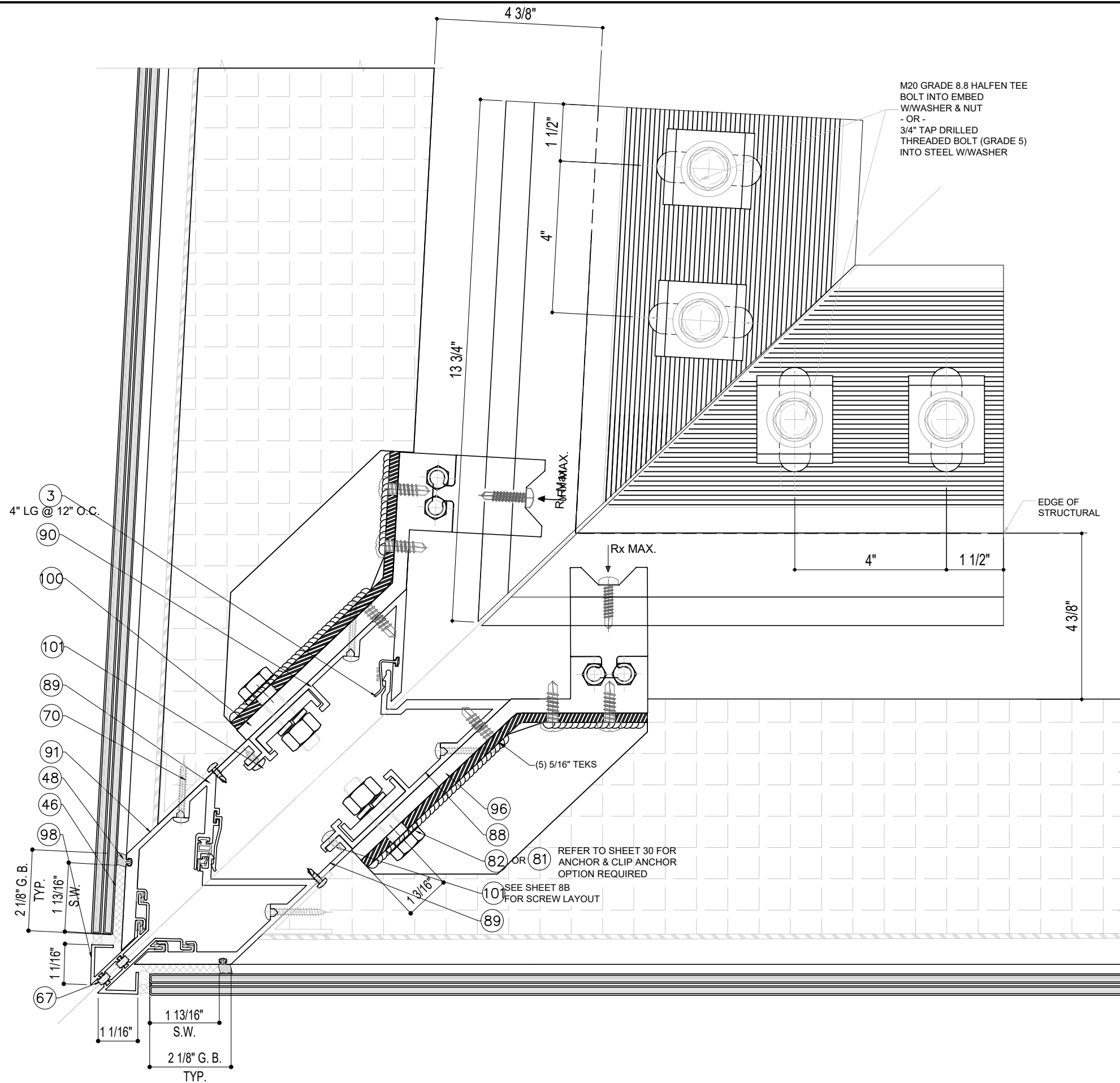
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09.19.2023	AS SHOWN
09.19.2023	AS SHOWN
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DRAWING NO.
AD19-08A

31B OF 38



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

FLORIDA APPROVAL:
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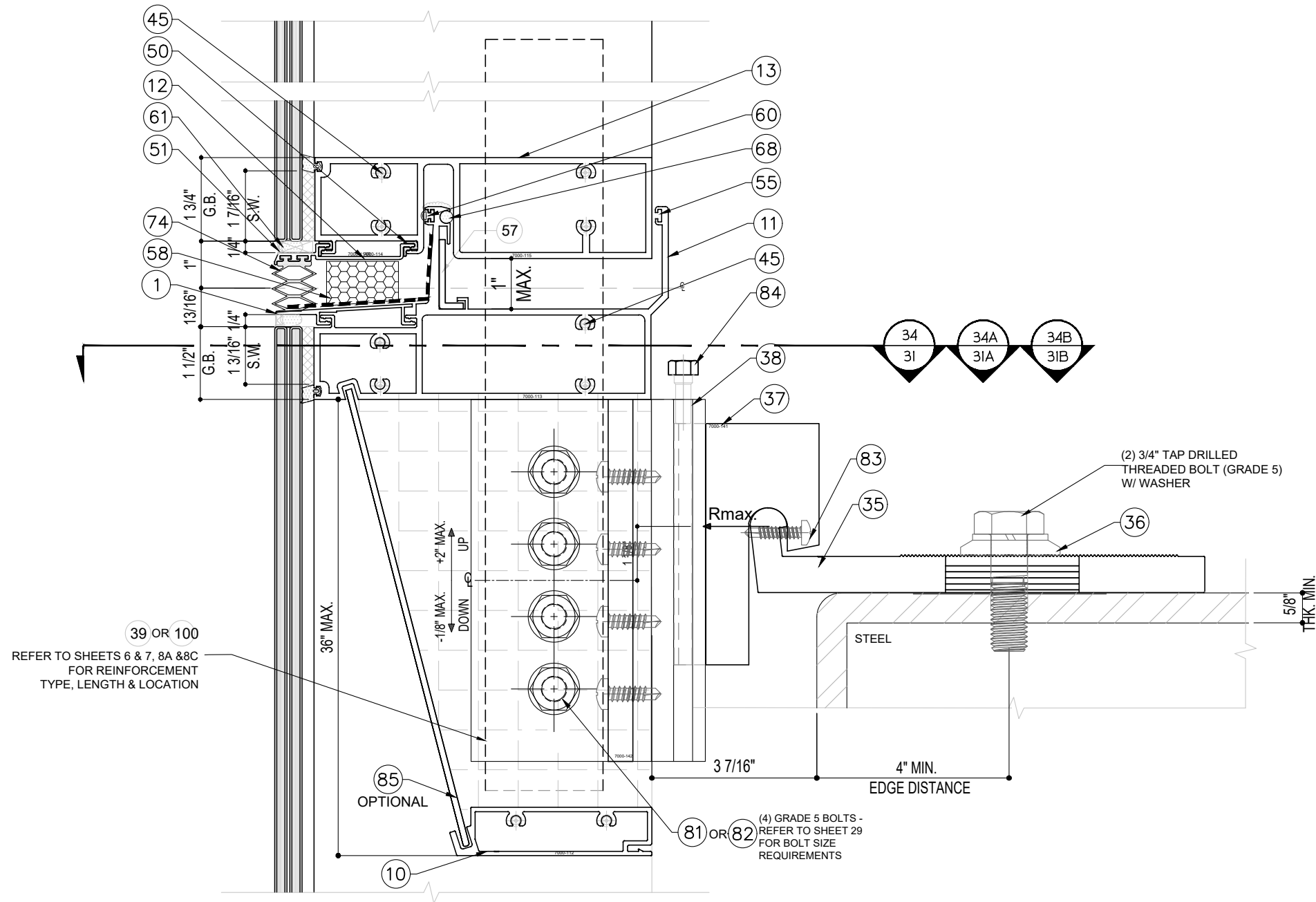
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SCALE	AS SHOWN
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PROJECT	MCY19-010

DRAWING NO.
AD19-08A

31C OF 38



36 CORNER EXP. JOINT - ANCHOR TYPE F
33 SECTION

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YIPANG WANG
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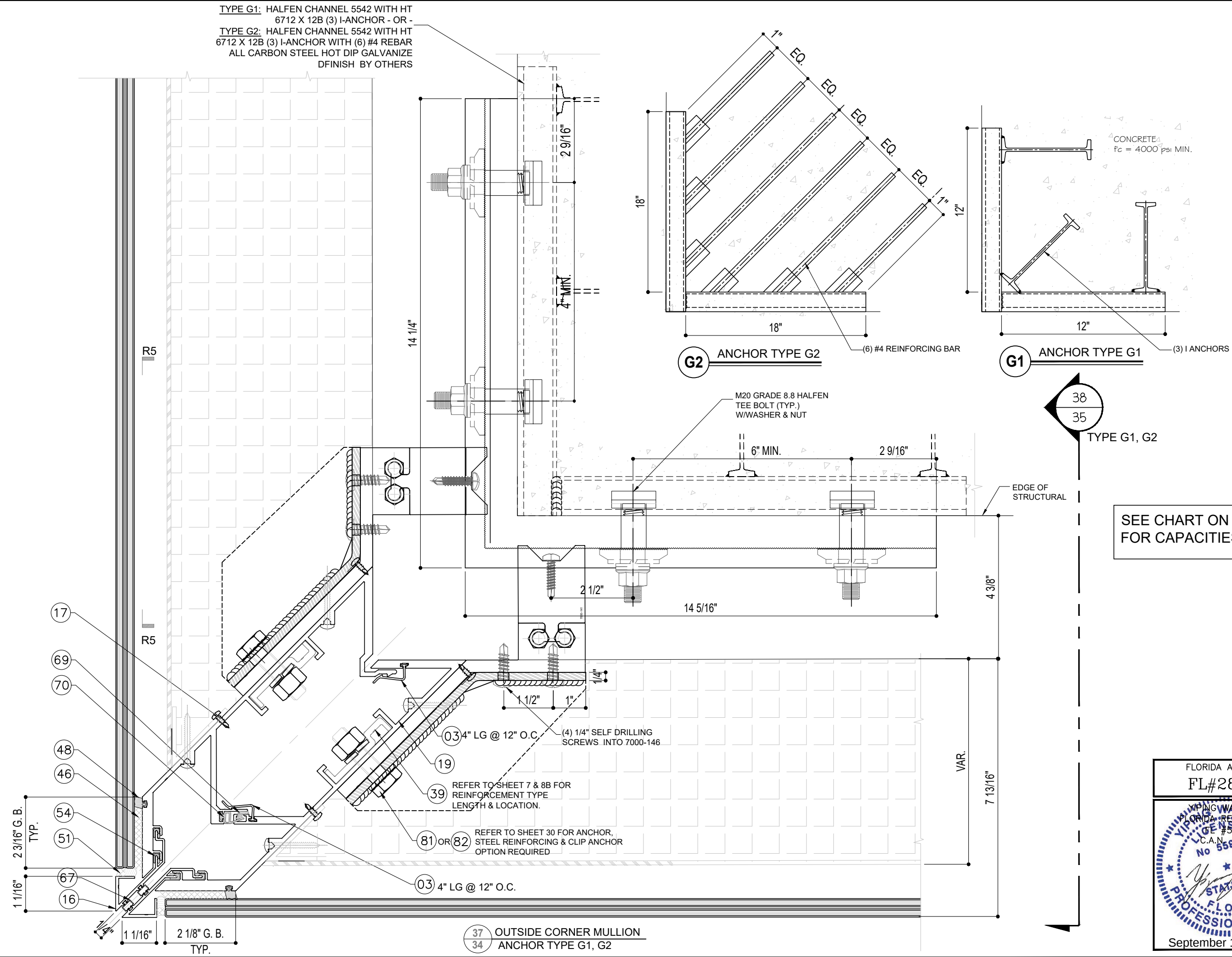
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DRAWN James
PROJECT MCY19-010

DRAWING NO.
AD19-08A

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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 GALVANIZE
DFINISH BY OTHERS

G2 ANCHOR TYPE G2

G1 ANCHOR TYPE G1

TYPE G1, G2

SEE CHART ON SHEET 35
FOR CAPACITIES

FLORIDA APPROVAL:
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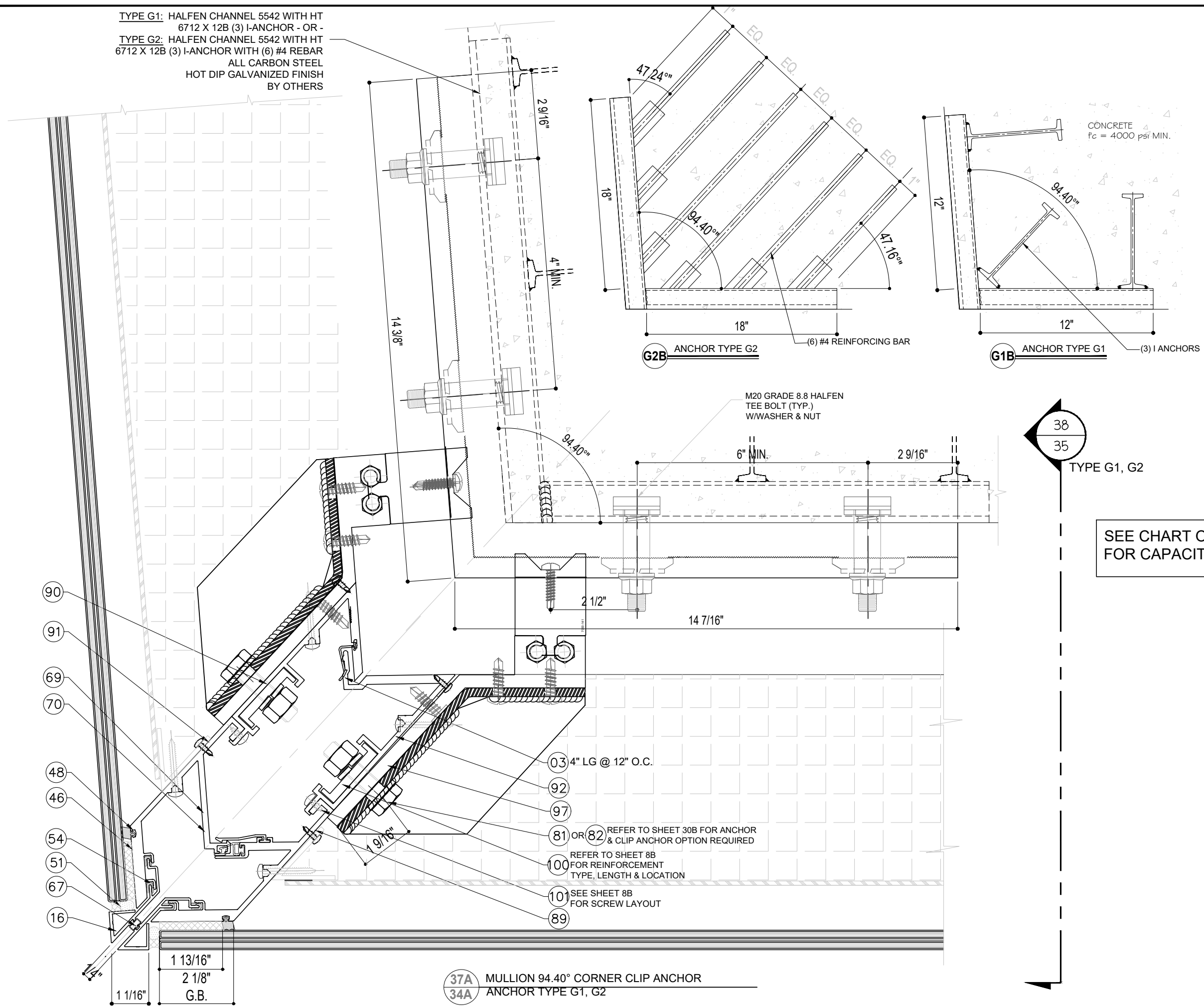
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DRAWING NO.
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TYPE G1: HALFEN CHANNEL 5542 WITH HT
6712 X 12B (3) I-ANCHOR - OR -
TYPE G2: HALFEN CHANNEL 5542 WITH HT
6712 X 12B (3) I-ANCHOR WITH (6) #4 REBAR
ALL CARBON STEEL
HOT DIP GALVANIZED FINISH
BY OTHERS



NO.	DATE	DESCRIPTION
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GLAZING CONSULTANTS

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12781 MIARAMAR PARKWAY #301
MIRAMAR, FL 33027

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F: 305.588.5224

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SERIES 7000 ALUMINUM CURTAIN WALL LAM. GLASS - SMI

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

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

FLORIDA APPROVAL:
FL#28879.3

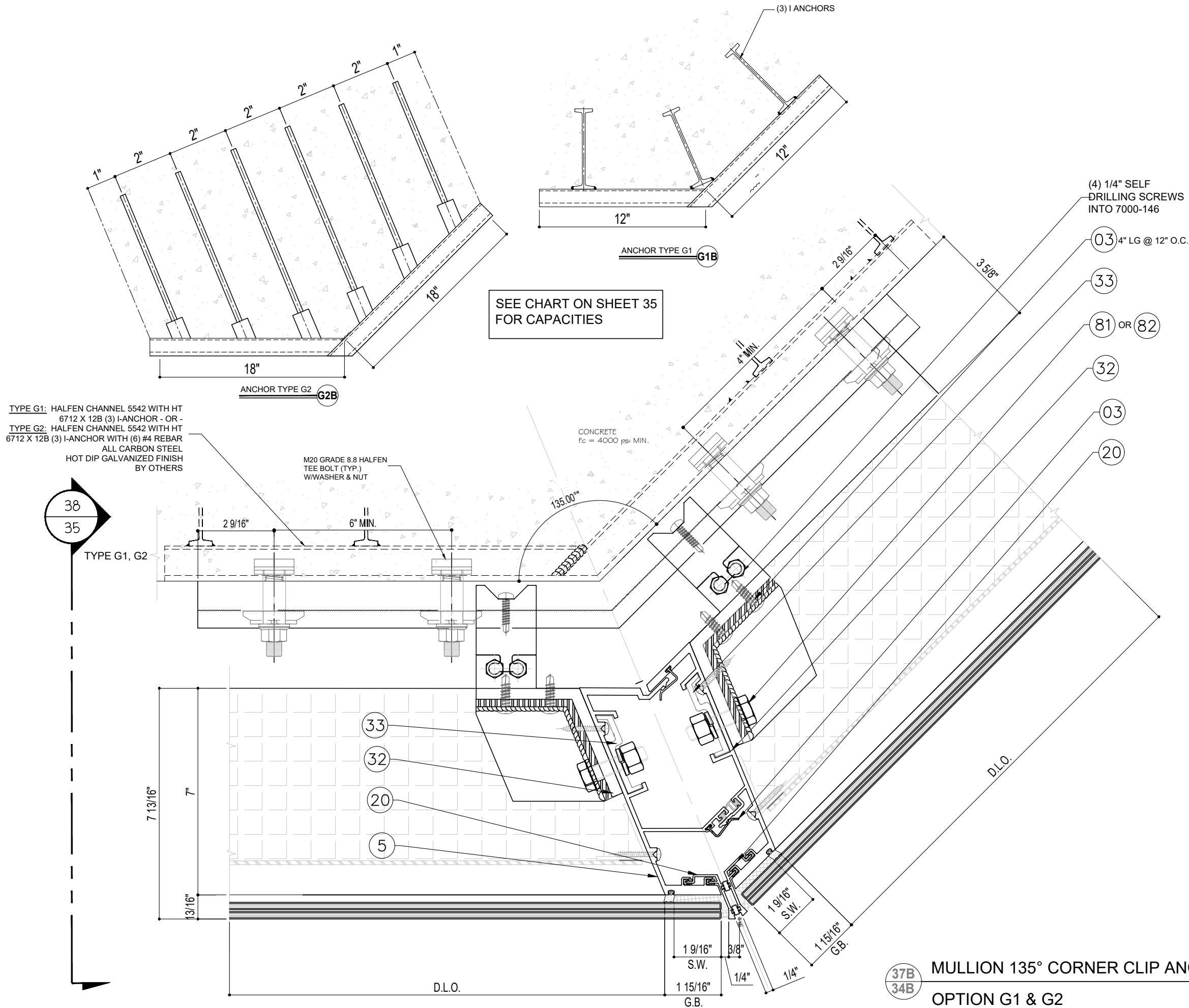
YIPANG WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.N. 38677

September 19th, 2023

DATE	09.19.2023
SCALE	AS SHOWN
DRAWN	James
PROJECT	MCY19-010

DRAWING NO.
AD19-08A

34AOF 38



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

M20 GRADE 8.8 HALFEN
TEE BOLT (TYP.)
W/WASHER & NUT

CONCRETE
 $f_c = 4000$ psi MIN.

(4) 1/4" SELF
DRILLING SCREWS
INTO 7000-146

03 4" LG @ 12" O.C.

33

81 OR 82

32

03

20

38

35

TYPE G1, G2

7 13/16"

7"

13/16"

33

32

20

5

1 9/16"
S.W.

1 15/16"
G.B.

3/8"

1/4"

1 9/16"
S.W.

1 15/16"
G.B.

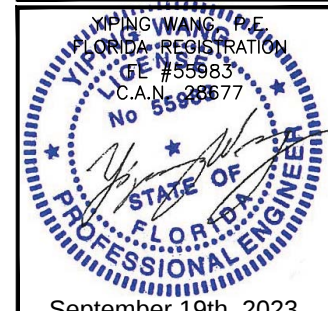
1/4"

1/4"

37B
34B

MULLION 135° CORNER CLIP ANCHOR
OPTION G1 & G2

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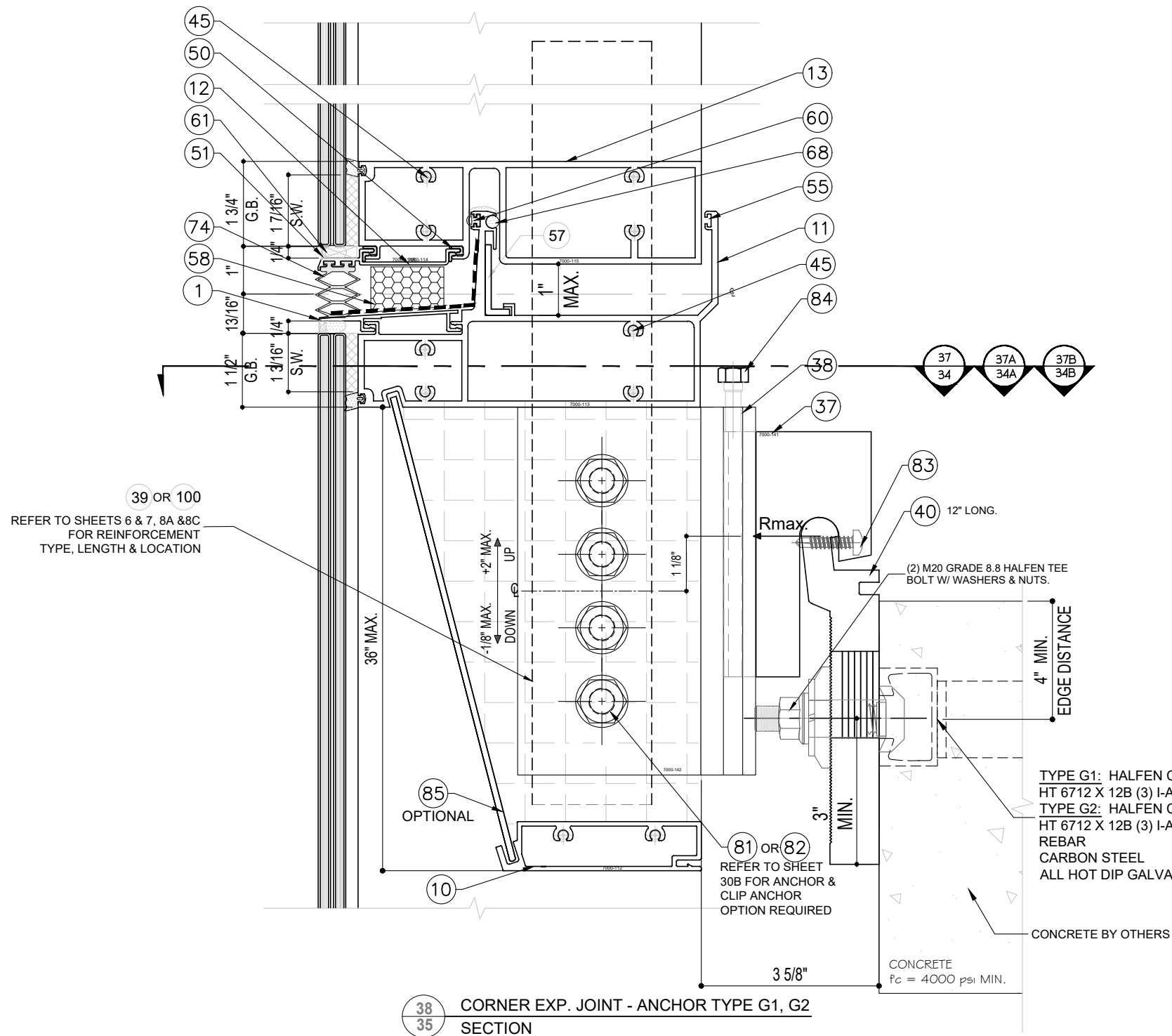
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	MAX. DESIGN LOAD (PSF)					
	SPAN (in)	MULLION SPACING (M.S.)				
		36	42	48	54	60
TYPE G1	120	140	140	140	124	112
	126	140	140	133	119	107
	132	140	140	127	113	102
	138	140	139	122	108	97
	144	140	133	117	104	93
TYPE G2	120	140	140	140	140	140
	126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

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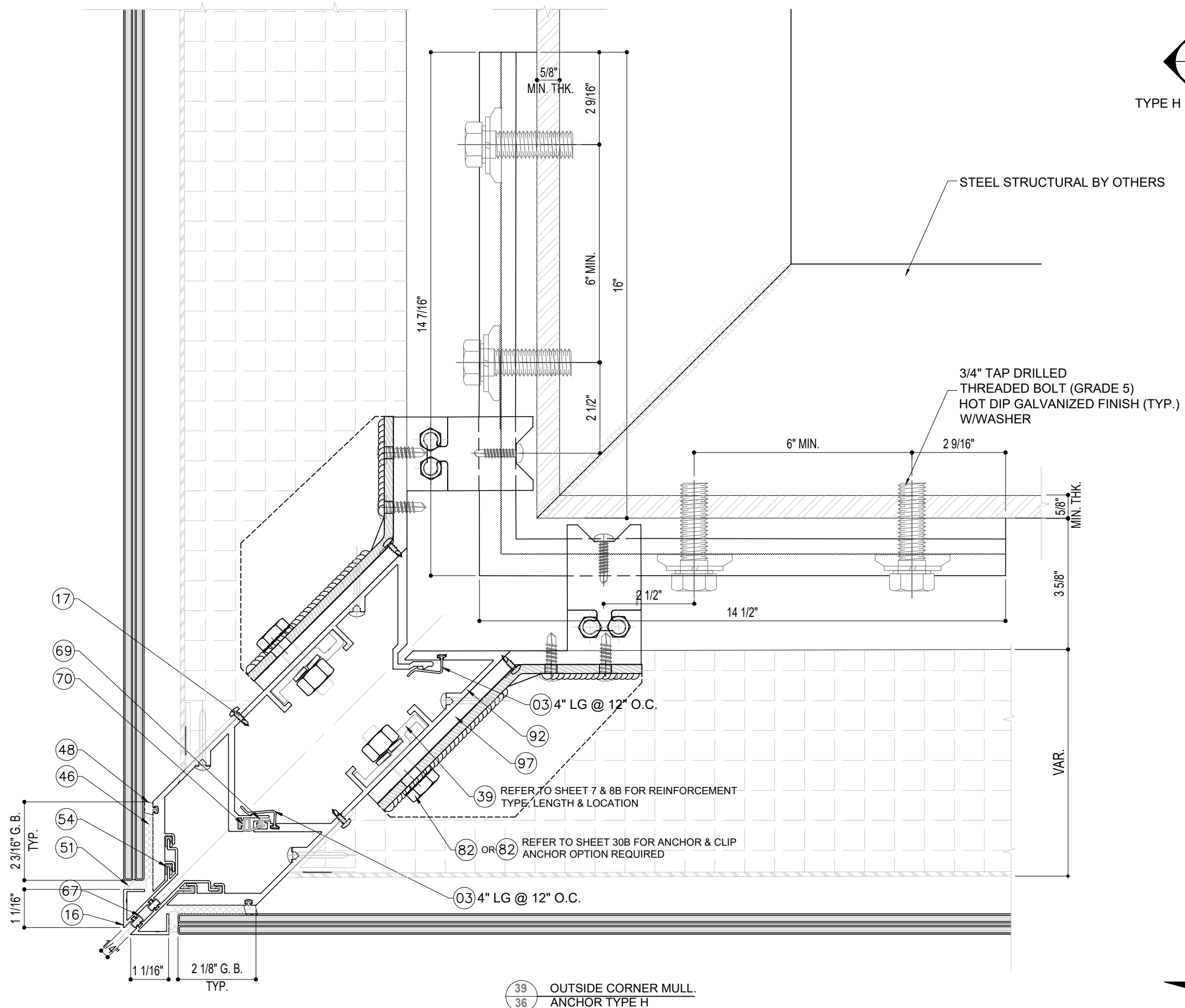
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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DRAWING NO. AD19-08A	
35 OF 38	



TYPE H

40
37

STEEL STRUCTURAL BY OTHERS

3/4" TAP DRILLED
THREADED BOLT (GRADE 5)
HOT DIP GALVANIZED FINISH (TYP.)
W/WASHER

5/8"
MIN. THK.

3 5/8"

VAR.

5/8"
MIN. THK.

2 9/16"

6" MIN.

16"

2 1/2"

6" MIN.

2 9/16"

14 1/2"

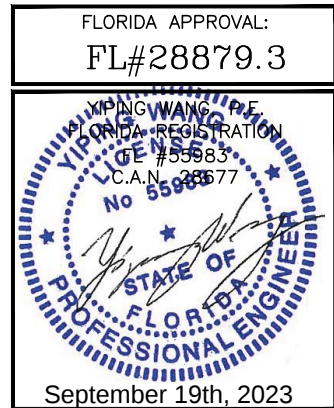
03 4" LG @ 12" O.C.

39 REFER TO SHEET 7 & 8B FOR REINFORCEMENT
TYPE, LENGTH & LOCATION

82 OR 82 REFER TO SHEET 30B FOR ANCHOR & CLIP
ANCHOR OPTION REQUIRED

03 4" LG @ 12" O.C.

39 OUTSIDE CORNER MULL.
36 ANCHOR TYPE H



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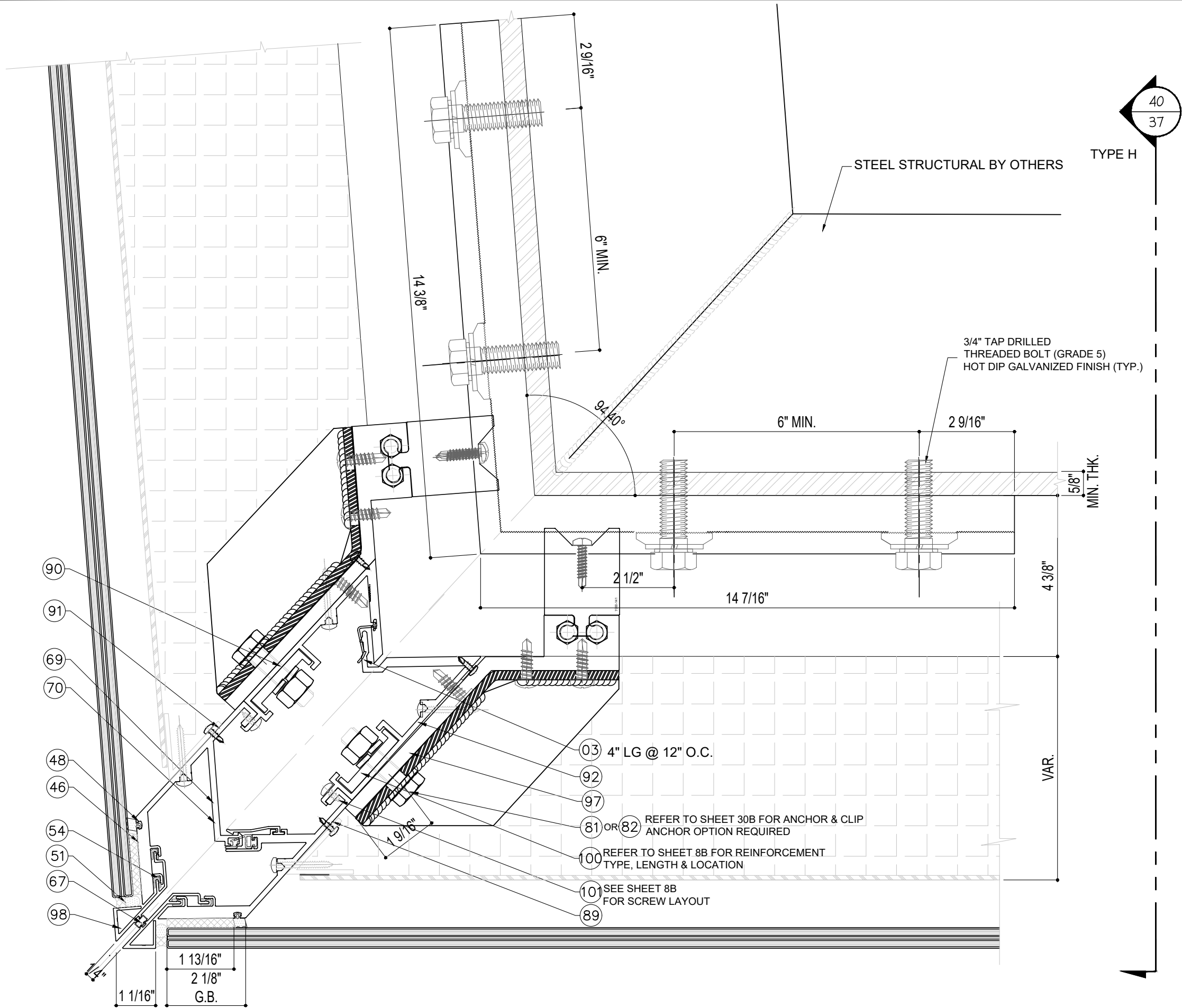
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DRAWING NO.
AD19-08A

36 OF 38



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

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DRAWING NO.
AD19-08A

36AOF 38

40
37

TYPE H

3/4" TAP DRILLED
THREADED BOLT (GRADE 5)
HOT DIP GALVANIZED FINISH (TYP.)
W/WASHER

5/8"
MIN. THK.

2 9/16"

6" MIN.

135.00°

6" MIN.

2 9/16"

3 5/8"

(4) 1/4" SELF
DRILLING SCREWS
INTO 7000-146

03 4" LG @ 12" O.C.

33 REFER TO SHEET 8B FOR
REINFORCEMENT
TYPE, LENGTH & LOCAT

81 OR 82 REFER TO SHEET
FOR ANCHOR &
ANCHOR OPTIC
REQUIRED

32

03

20

7 13/16"

7"

13/16"

33

32

20

5

1 9/16"
S.W.

3/8"

1 15/16"
G.B.

1/4"

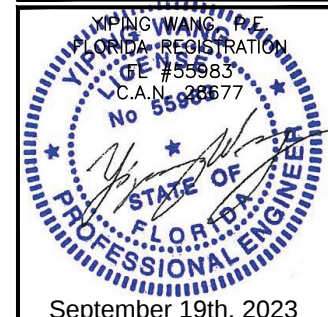
1/4"

1 9/16"
S.W.

1 15/16"
G.B.

39B OUTSIDE CORNER 135.0° MULL.
36B ANCHOR TYPE H

FLORIDA APPROVAL:
FL#28879.3



September 19th, 2023

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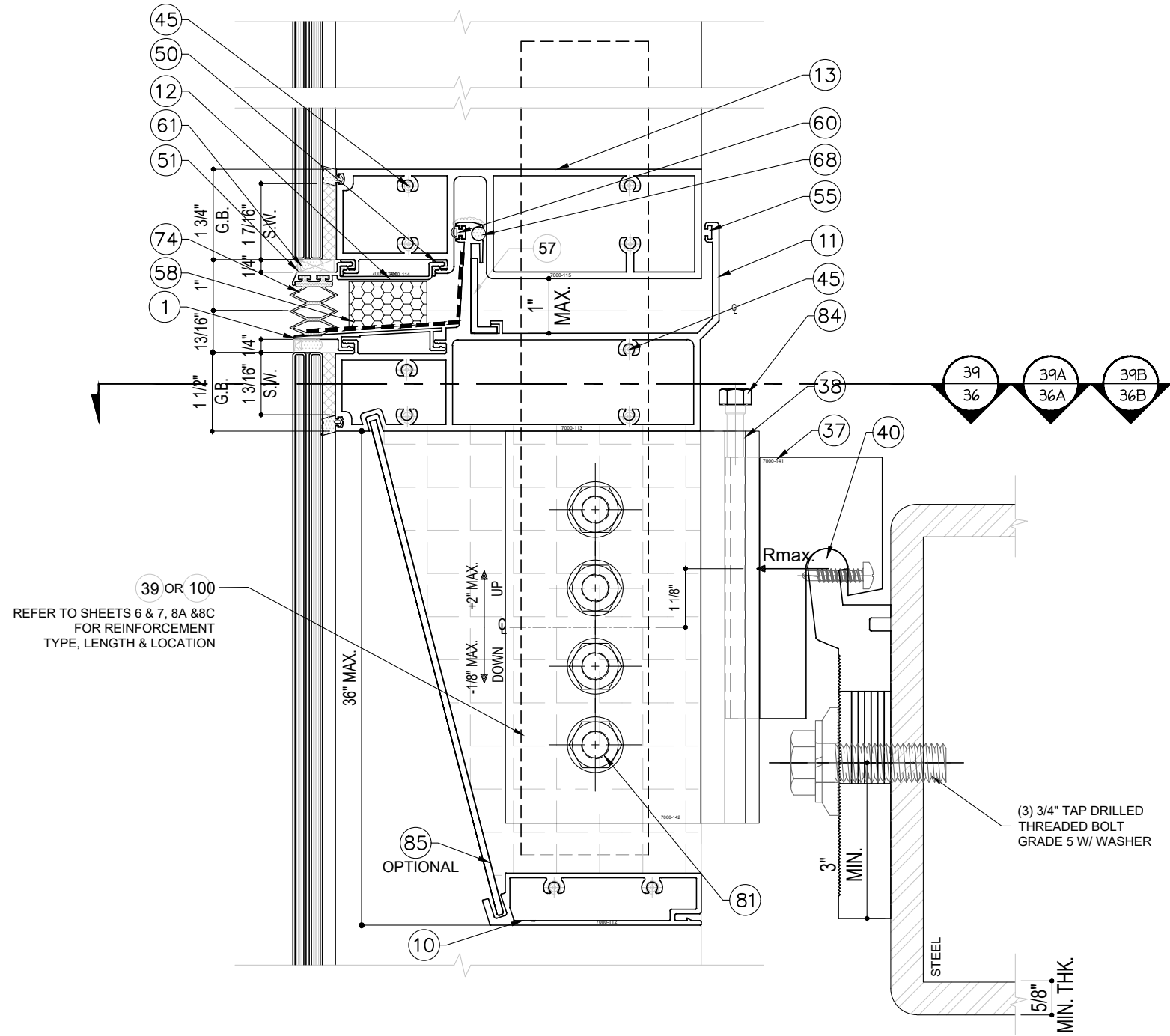
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DRAWING NO.
AD19-08A

36B OF 38

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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#28879.3

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FLORIDA REGISTRATION
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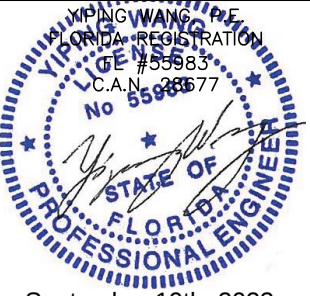
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REVISIONS
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ITEM #	DESCRIPTION	MATERIAL	GLASSWALL PARTS #	MANUF. / REMARKS	ITEM #	DESCRIPTION	MATERIAL	GLASSWALL PARTS #	MANUF. / REMARKS
					56	5/8" +/- 1/8" SHIM	-	-	
02	MALE MULLION	6063-T6	7000-102R		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	GASKET	SILICONE	WW7000-NE003	
49	9/16" LAMINATED GLASS	GLASS	-		105	SEAL GASKET	EPDM	W5250-NE02	
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						

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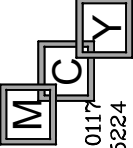


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