

CONTINENTAL GLASS SYSTEMS, LLC.
SERIES 3900 WINDOW WALL W/WO REINFORCEMENT
SMALL MISSILE IMPACT (SMI)

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR SMALL MISSILE IMPACT.
IMPACT SHUTTERS ARE NOT REQUIRED FOR ELEVATIONS ABOVE 30'-0" FROM GRADE.
IMPACT SHUTTERS ARE REQUIRED FOR ELEVATIONS BELOW 30'-0" FROM GRADE.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY CONTINENTAL GLASS SYSTEMS, LLC.
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 7-22, 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.

SEALANTS:

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

FRAME PERIMETER SEALANT TO BE DOWSIL DC790.

-TYPICAL ANCHORS: (SEE ELEVATIONS FOR SPACING)

TYPE 'A' -- 5/16" DIA. ULTRACON BY 'DEWALT' (Fu 177 KSI, Fy=155 KSI)
DIRECTLY INTO CONCRETE OR MASONRY
1-3/4" MIN. EMBED INTO CONCRETE.

TYPE 'B' -- 5/16" DIA. SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (1/8" THK. MIN.)
 INTO METAL STRUCTURES
 STEEL: 1/8" THK. MIN. (A36 MIN.)
 ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPE 'C' -- #14 SMS OR SELF DRILLING SCREWS (GRADE 5 CRS)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS
(1/8" THK. MIN.) INTO METAL STRUCTURE.

TYPICAL EDGE DISTANCE

INTO CONCRETE = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

STEP 1: DETERMINE ALLOWABLE DESIGN LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD.

STEP 2: SEE CHARTS ON SHEET G1 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE. THE GLASS CAPACITY SHOULD BE GREATER THAN OR EQUAL TO THE ALLOWABLE DESIGN LOAD DETERMINED BY STEP 1.

STEP 3: CHECK MULLION AND JAMB CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEETS M1 & M2. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.

STEP 4: USING CHART ON SHEET A1 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

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

REVISIONS	
NO.	DATE DESCRIPTION
R2	01.16.2024 FBC 2023



MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301 P: 305.271.0117
MIRAMAR, FL 33027 P: 305.588.5224

www.MCYEngineering.com mcy@mcyengineering.com

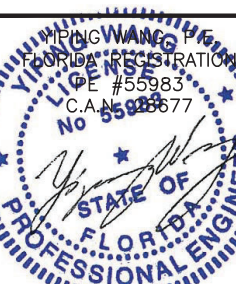
SERIES 3900 WINDOW WALL W/WO REINFORCEMENT - SMI

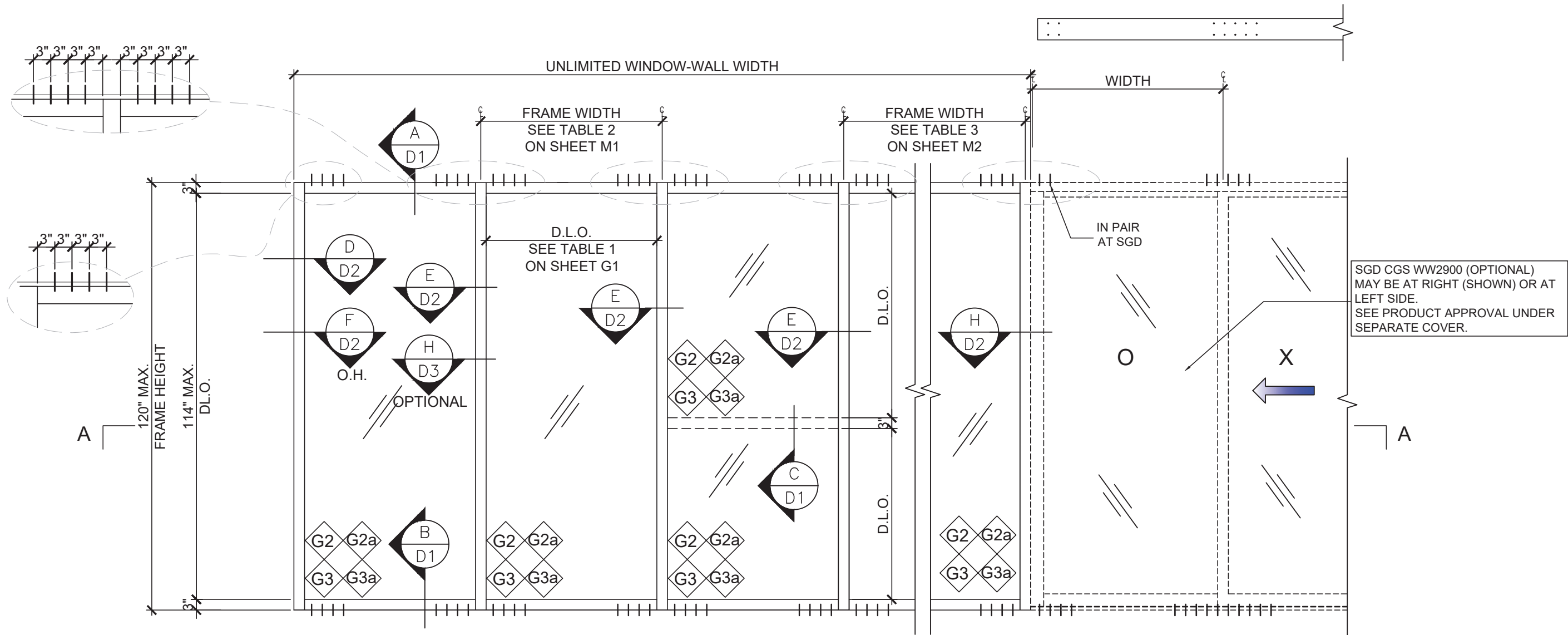
CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

COVER	
DATE	01.16.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	

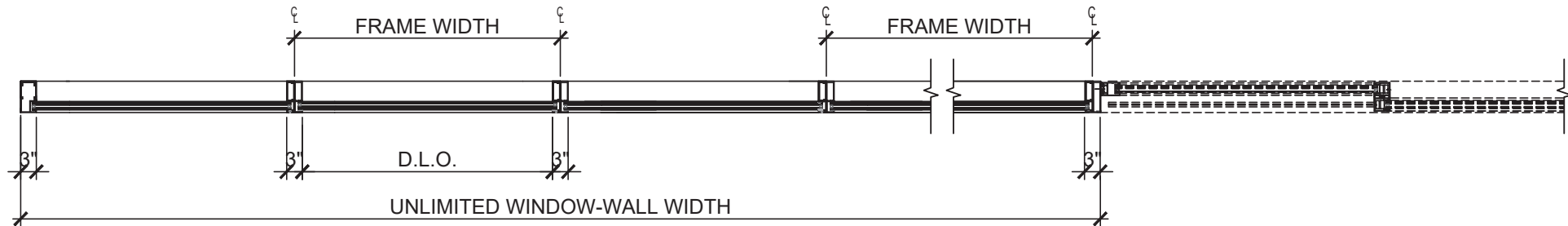
DRAWING NO.
AD15-58

1 OF 12

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.
SERIES 3900WW	
FL #20111.5	
	
February 05th, 2024	



TYPICAL EXTERIOR ELEVATION
UNREINFORCED



SECTION A-A

MAX ALLOWABLE DESIGN LOAD (REFER TO TABLES 1, 2, 3)
+ 126.0 PSF
- 126.0 PSF

SERIES 3900WW
FL #20111.5

YING WANG, P.E.
FLORIDA REGISTRATION
E #55983
C.A.A. #26677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

February 05th, 2024

NO.	DATE	DESCRIPTION
R2	01.16.2024	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

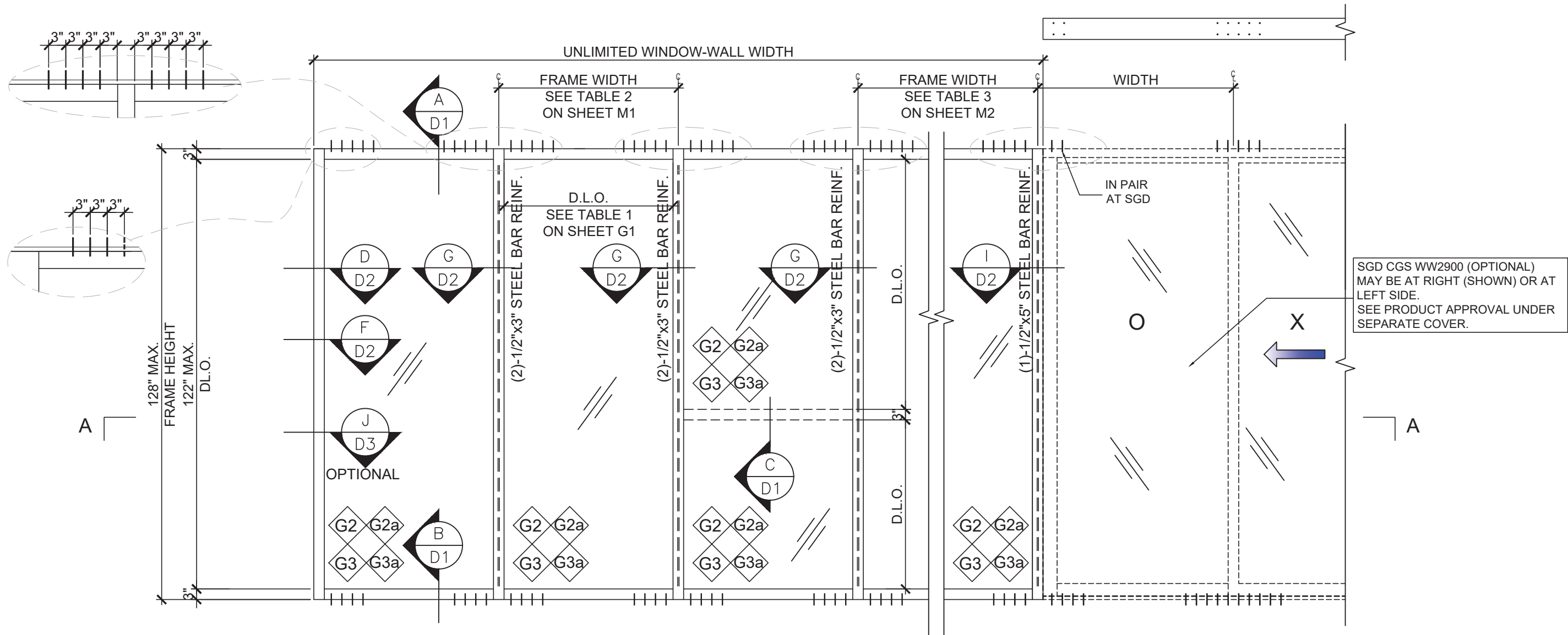
MCY

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

SERIES 3900 WINDOW WALL W/WO REINFORCEMENT - SMI

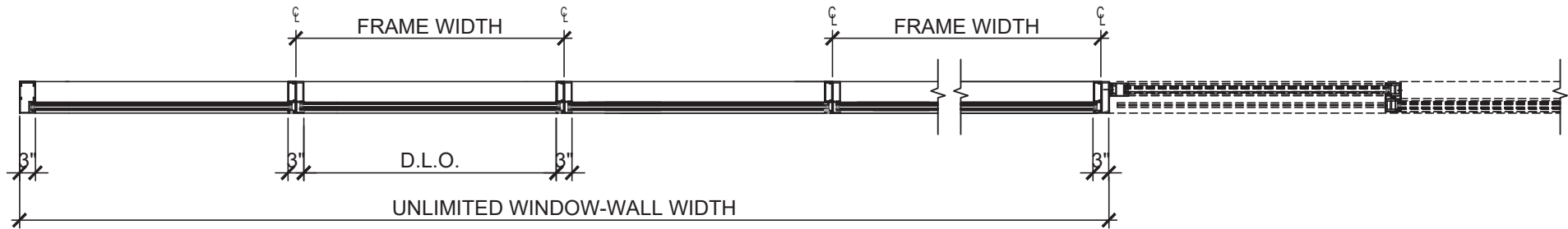
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325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

E1	
DATE	01.16.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	
DRAWING NO. AD15-58	
2 OF 12	



TYPICAL EXTERIOR ELEVATION

REINFORCED

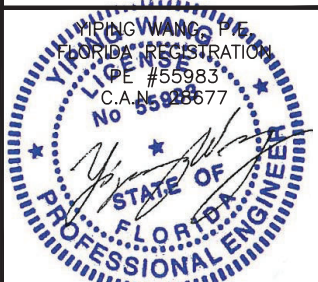


SECTION A-A

MAX ALLOWABLE DESIGN LOAD (REFER TO TABLES 1, 2, 3)
+ 141.0 PSF
- 141.0 PSF

SERIES 3900WW

FL #20111.5



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E2

DATE	01.16.2024
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DRAWN	James
PROJECT	

DRAWING NO.

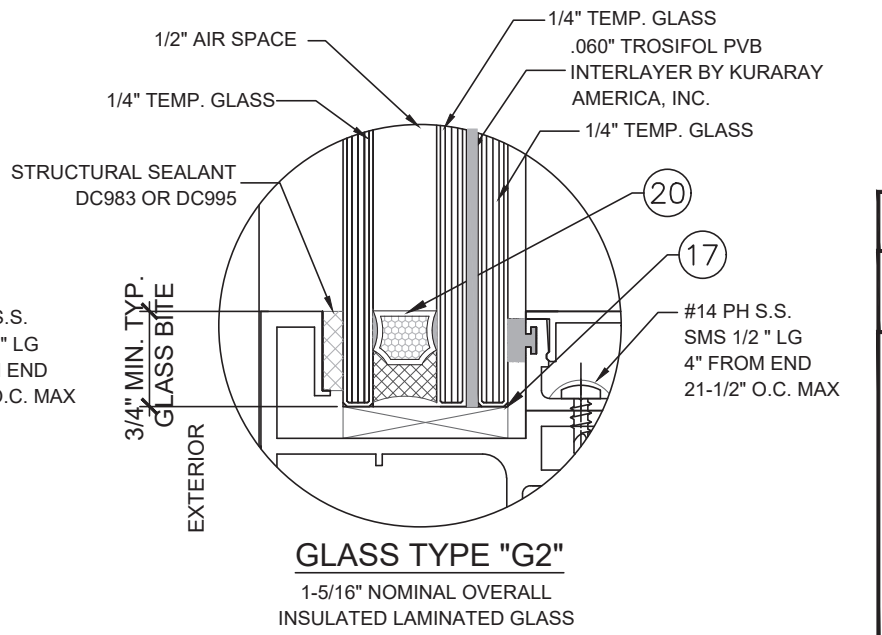
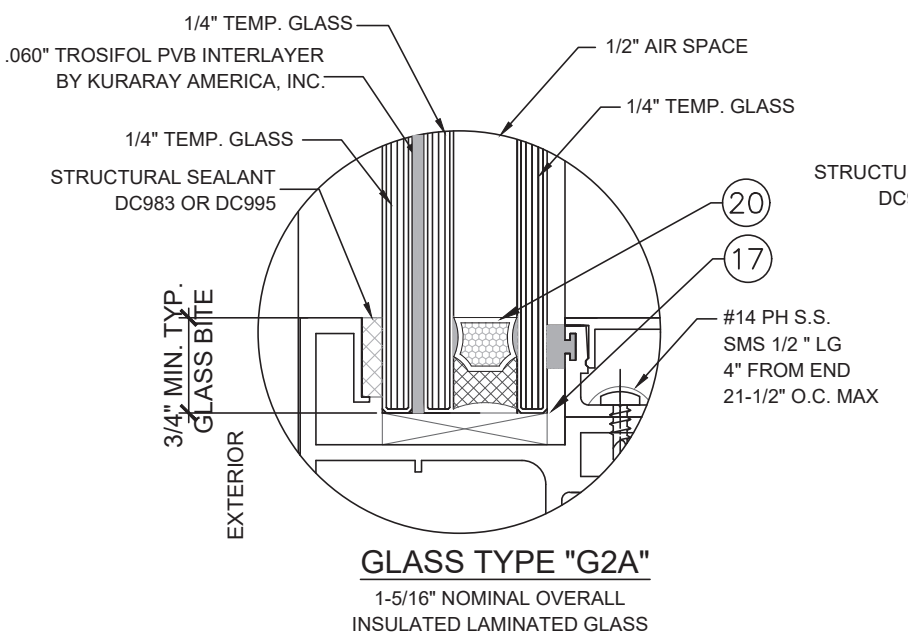
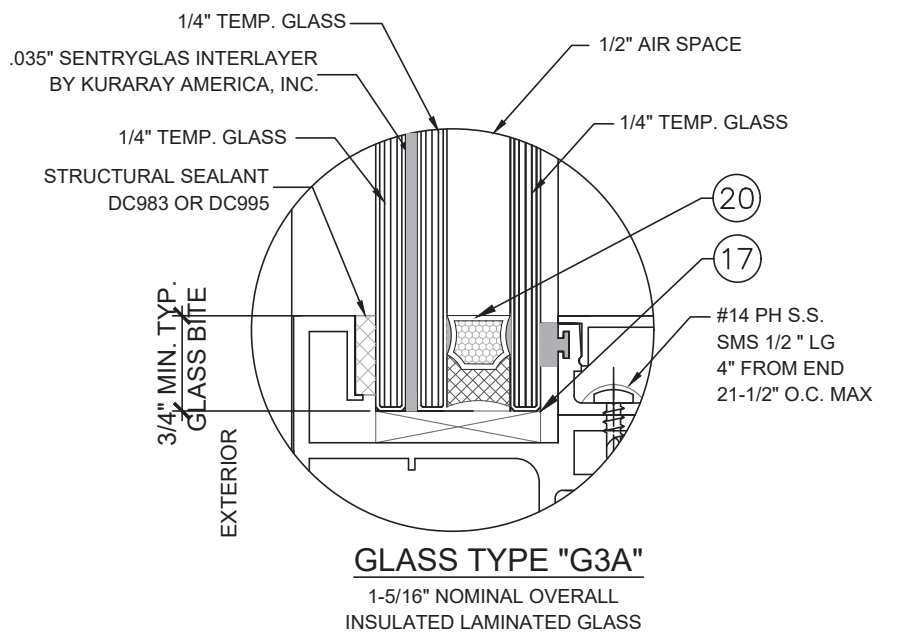
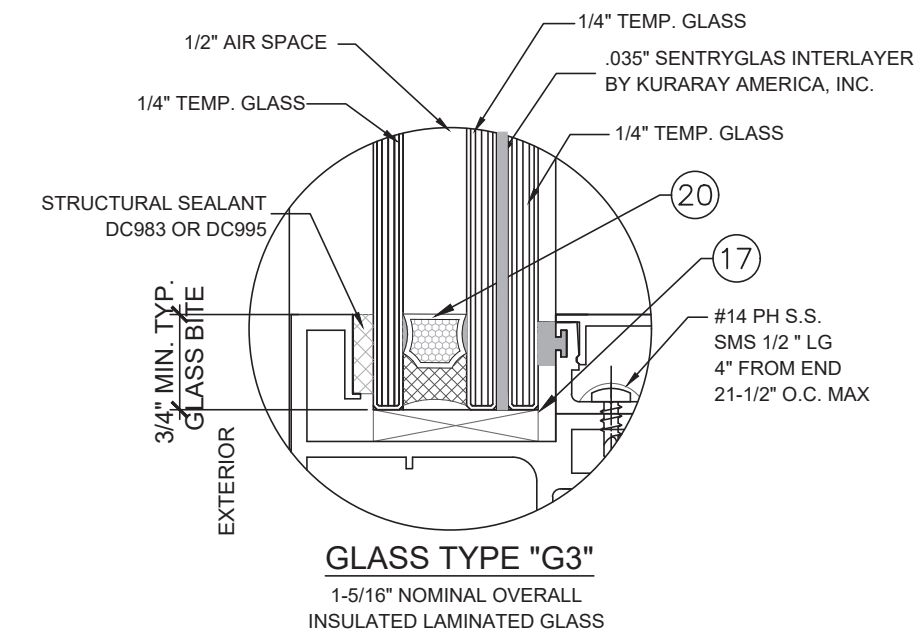
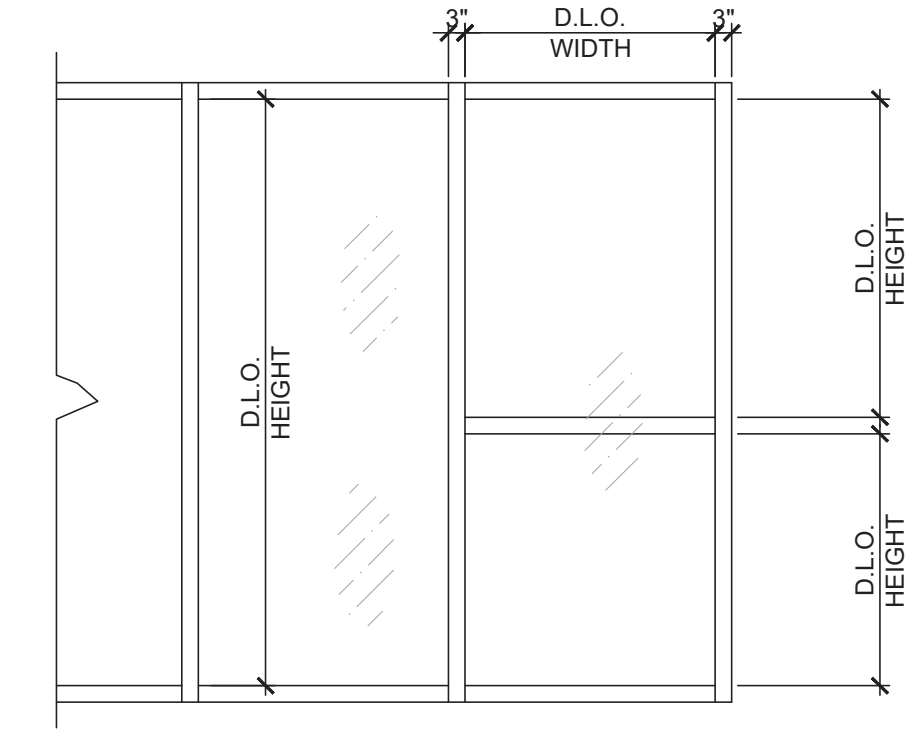
AD15-58

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TABLE 1:

GLASS CAPACITY			
D.L.O. WIDTH	D.L.O. HEIGHT	TYPE G2&G2A	TYPE G3&G3A
(IN.)	(IN.)	(PSF)	(PSF)
45	78	141	141
51		141	141
57		141	141
63		141	141
69		141	141
45	84	141	141
51		141	141
57		141	141
63		141	141
69		141	141
45	90	141	141
51		141	141
57		141	141
63		141	141
69		141	141
45	96	141	141
51		141	141
57		141	141
60		141	141
63		141	141
45	102	141	141
51		141	141
54		141	141
57		141	141
60		141	141
45	108	141	141
48		141	141
51		141	141
54		141	141
57		141	141
42	114	141	141
45		141	141
48		141	141
51		141	141
54		141	141
42	120	141	141
45		141	141
48		141	141
51		141	141
54		141	141
42	124	141	141
45		141	141
48		141	141
51		141	141
54		141	141

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



SERIES 3900WW

FL #20111.5

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325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

G1

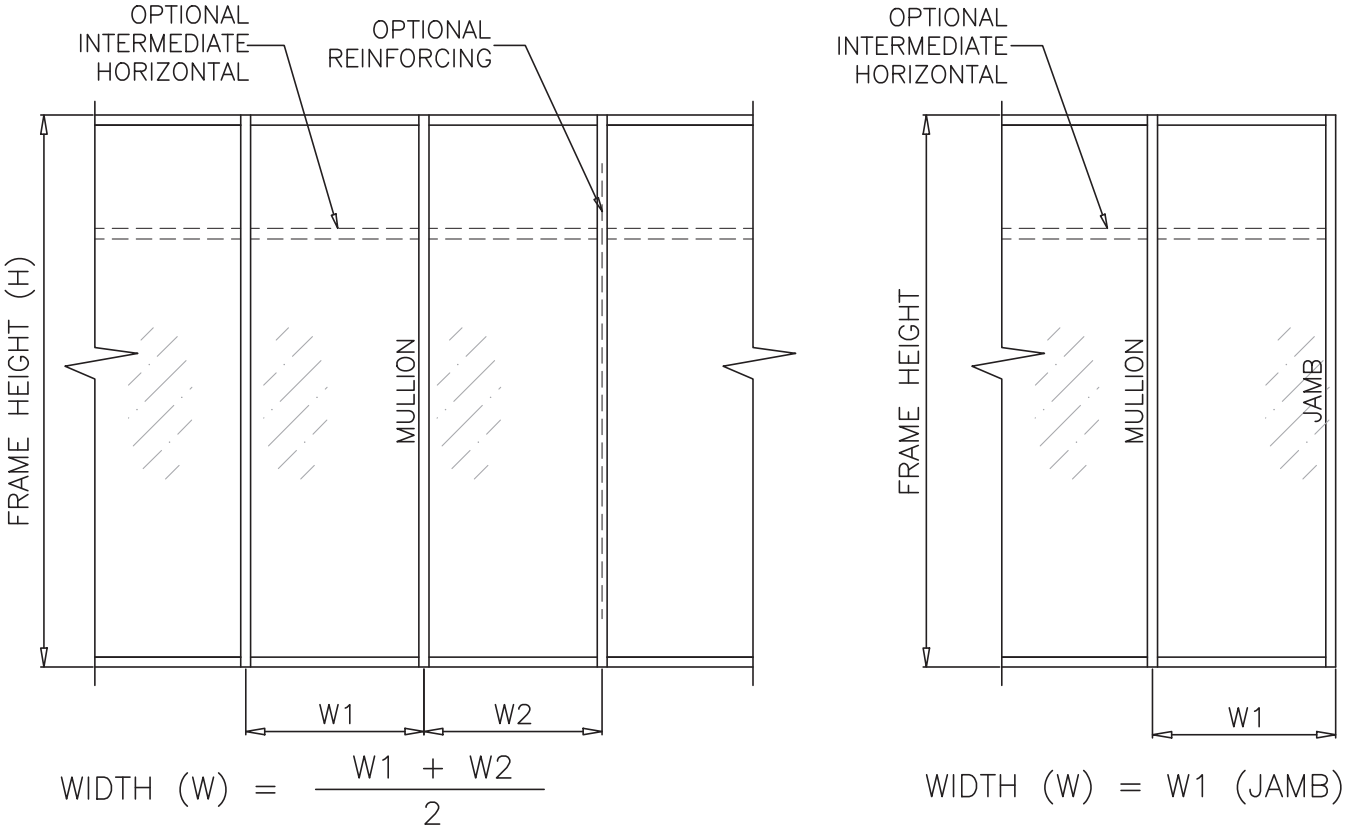
DATE	01.16.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	

DRAWING NO.
AD15-58

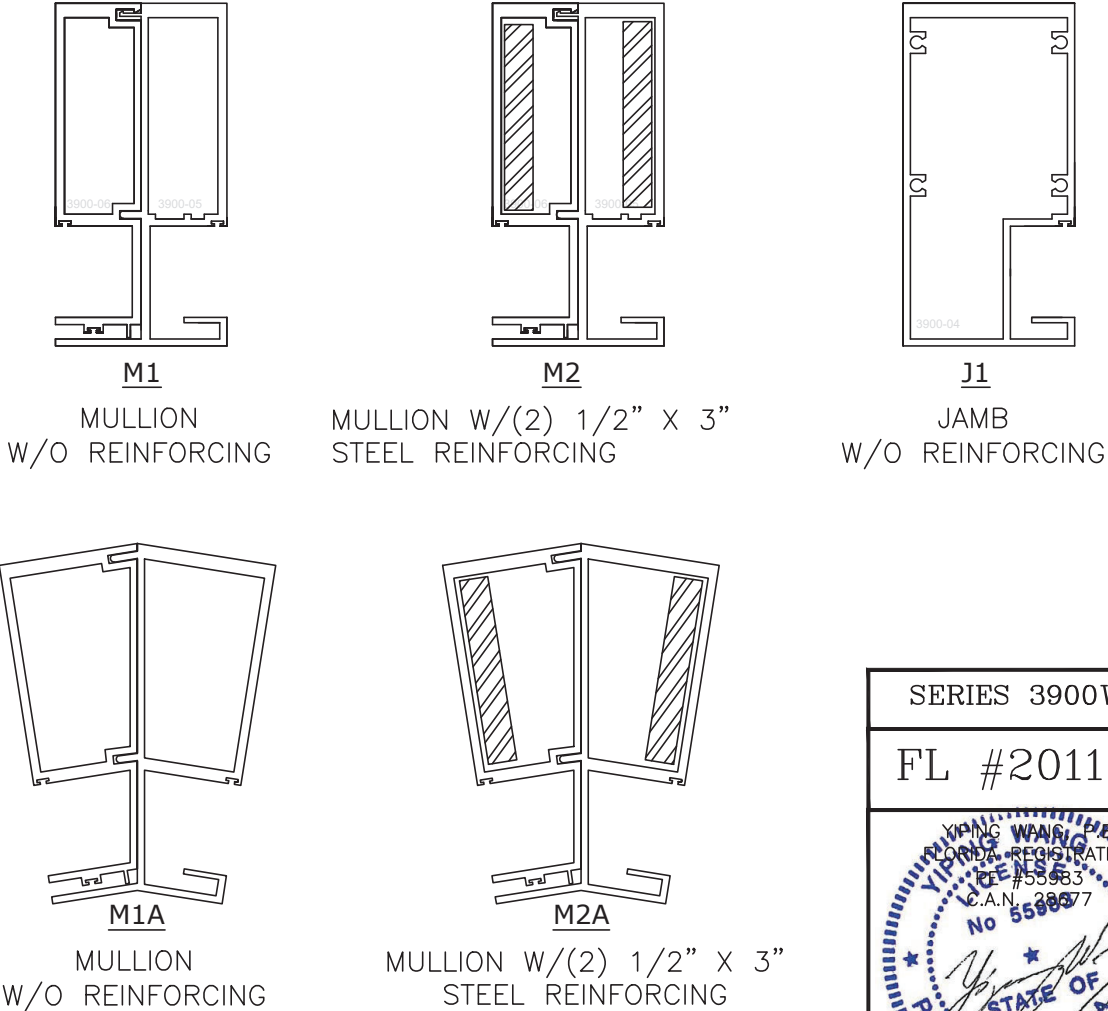
4 OF 12

TABLE 2:

SINGLE SPAN MULLION LOAD CAPACITY – PSF						
MULLION TYPE		M1, M1A		J1	M2, M2A	
WINDOW PANEL		W/O HORIZ.	W/HORIZ.	W/O OR W/HORIZ.	W/O HORIZ.	W/HORIZ.
WIDTH W(IN)	HEIGHT H(IN)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
48	84	126.0	126.0	141.0	141.0	141.0
54		126.0	126.0	141.0	141.0	141.0
60		126.0	126.0	141.0	141.0	141.0
66		126.0	126.0	141.0	141.0	141.0
72		126.0	126.0	141.0	141.0	141.0
48	90	126.0	126.0	141.0	141.0	141.0
54		126.0	126.0	141.0	141.0	141.0
60		126.0	126.0	141.0	141.0	141.0
66		126.0	126.0	141.0	141.0	141.0
72		–	–	141.0	141.0	141.0
48	96	126.0	126.0	141.0	141.0	141.0
54		126.0	126.0	141.0	141.0	141.0
60		126.0	126.0	141.0	141.0	141.0
66		–	–	141.0	141.0	141.0
48	102	126.0	126.0	141.0	141.0	141.0
54		126.0	126.0	141.0	141.0	141.0
60		126.0	126.0	141.0	141.0	141.0
63		–	–	141.0	141.0	141.0
48	108	126.0	126.0	141.0	141.0	141.0
54		126.0	126.0	141.0	141.0	141.0
57		126.0	126.0	141.0	141.0	141.0
60		–	–	141.0	141.0	141.0
48	114	126.0	126.0	141.0	141.0	141.0
51		126.0	126.0	141.0	141.0	141.0
54		126.0	126.0	141.0	141.0	141.0
57		–	–	141.0	141.0	141.0
45	120	126.0	126.0	141.0	141.0	141.0
48		126.0	126.0	141.0	141.0	141.0
51		126.0	124.4	141.0	141.0	141.0
54		–	–	141.0	141.0	141.0
45	126	–	–	141.0	141.0	141.0
48		–	–	141.0	141.0	141.0
51		–	–	141.0	141.0	141.0
45	128	–	–	141.0	141.0	141.0
48		–	–	141.0	141.0	141.0
51		–	–	141.0	141.0	140.0



J1	Ix IN^4	Sx IN^3
3900-04	14.328	4.384
M1	Ix IN^4	Sx IN^3
3900-06	7.258	2.255
3900-05	10.582	3.510
TOTAL	17.840	5.542
M2	Ix IN^4	Sx IN^3
3900-06	7.258	2.255
3900-05	10.582	3.510
(2)ST-1	6.525	–
TOTAL	24.365	IN ALUM.
M1A	Ix IN^4	Sx IN^3
3900-24	12.645	3.042
3900-25	8.548	2.229
TOTAL	21.193	5.271
M2A	Ix IN^4	Sx IN^3
3900-24	12.645	3.042
3900-25	8.548	2.229
(2)ST-1	6.525	–
TOTAL	27.718	IN ALUM.



SERIES 3900WW

FL #20111.5

YONG WANG

FLORIDA REGISTRATION

PE #55583

C.A.N. 28677

No 55583

STATE OF FLORIDA

PROFESSIONAL ENGINEER

February 05th, 2024

REVISIONS

NO	DATE	DESCRIPTION
R2	01.16.2024	FBC 2023

MCY

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CONTINENTAL GLASS SYSTEMS, LLC.

325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

M1

DATE	01.16.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	

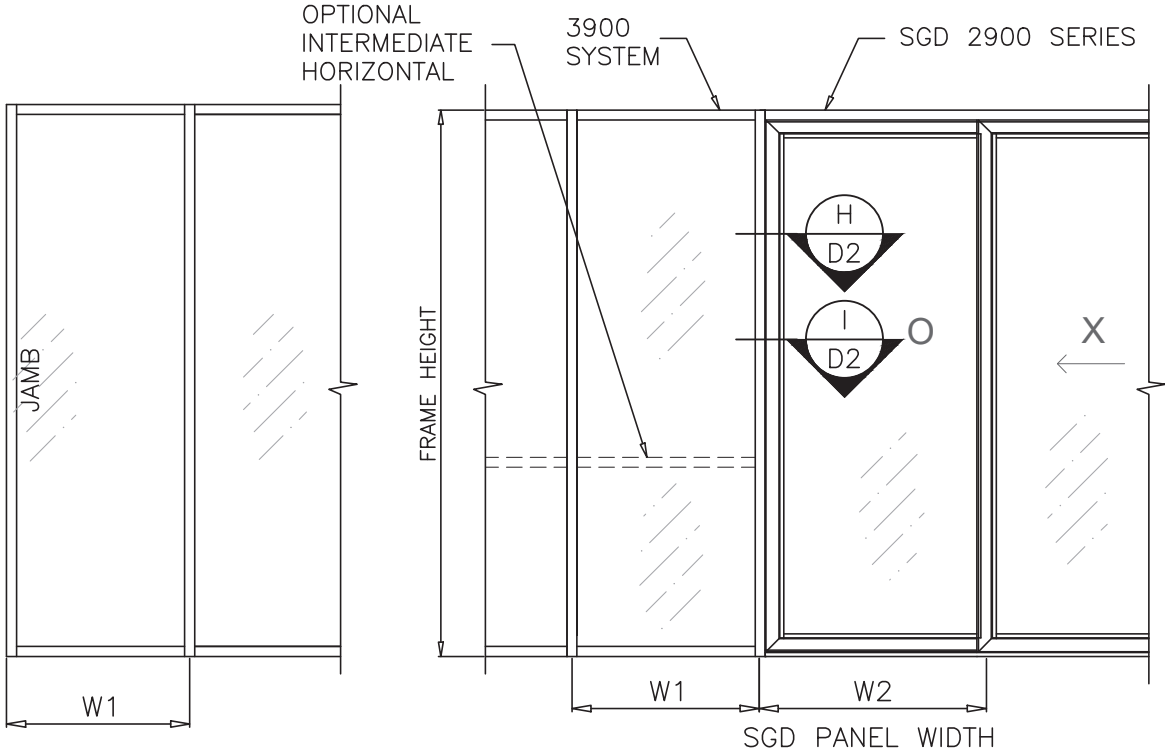
DRAWING NO.

AD15-58

5 OF 12

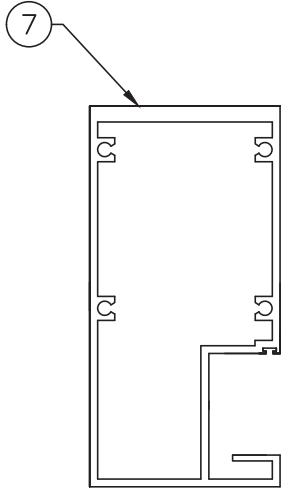
TABLE 3:

SINGLE SPAN W/SGD MULLION LOAD CAPACITY – PSF						
MULLION TYPE		M3		J1	M4	
WINDOW PANEL		W/O HORIZ.	W/HORIZ.	W/O OR W/HORIZ.	W/O HORIZ.	W/HORIZ.
WIDTH W(IN)	HEIGHT H(IN)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)	EXT.(+) INT.(–)
48	84	140.0	140.0	141.0	140.0	140.0
54		140.0	140.0	141.0	140.0	140.0
60		140.0	140.0	141.0	140.0	140.0
66		140.0	140.0	141.0	140.0	140.0
72		140.0	140.0	141.0	140.0	140.0
48	90	140.0	140.0	141.0	140.0	140.0
54		140.0	140.0	141.0	140.0	140.0
60		140.0	140.0	141.0	140.0	140.0
66		140.0	140.0	141.0	140.0	140.0
72		140.0	140.0	141.0	140.0	140.0
48	96	140.0	140.0	141.0	140.0	140.0
54		140.0	140.0	141.0	140.0	140.0
60		140.0	140.0	141.0	140.0	140.0
66		140.0	140.0	141.0	140.0	140.0
48	102	140.0	140.0	141.0	140.0	140.0
54		140.0	140.0	141.0	140.0	140.0
60		140.0	140.0	141.0	140.0	140.0
63		140.0	140.0	141.0	140.0	140.0
48	108	140.0	140.0	141.0	140.0	140.0
54		140.0	140.0	141.0	140.0	140.0
57		140.0	140.0	141.0	140.0	140.0
60		140.0	140.0	141.0	140.0	140.0
48	114	140.0	140.0	141.0	140.0	140.0
51		140.0	140.0	141.0	140.0	140.0
54		140.0	140.0	141.0	140.0	140.0
57		140.0	137.5	141.0	140.0	140.0
45	120	140.0	140.0	141.0	140.0	140.0
48		140.0	137.5	141.0	140.0	140.0
51		134.9	129.9	141.0	140.0	140.0
54		128.6	123.3	141.0	140.0	140.0
45	126	129.2	125.9	141.0	140.0	140.0
48		122.0	118.4	141.0	140.0	140.0
51		115.7	111.9	141.0	140.0	140.0
45	130	117.3	114.4	140.0	140.0	140.0
48		110.7	107.6	140.0	140.0	140.0
51		104.9	101.6	140.0	138.8	135.2

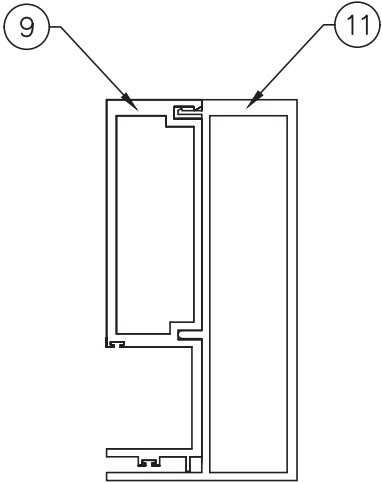


WIDTH (W) = W1 (JAMB)

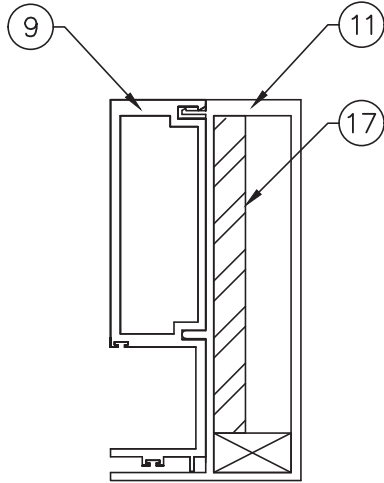
WIDTH (W) = $\frac{W1 + W2}{2}$



J1
JAMB
W/O REINFORCING



M3
MULLION
W/O REINFORCING



M3	Ix IN^4	Sx IN^3
3900-06	7.258	2.255
3900-09	10.716	3.529
TOTAL	17.974	5.583

M4	Ix IN^4	Sx IN^3
3900-06	7.258	2.255
3900-09	10.716	3.529
ST-2	15.104	—
TOTAL	33.078	IN ALUM.

SERIES 3900WW

FL #20111.5

REVISIONS

NO	DATE	DESCRIPTION
R2	01.16.2024	FBC 2023

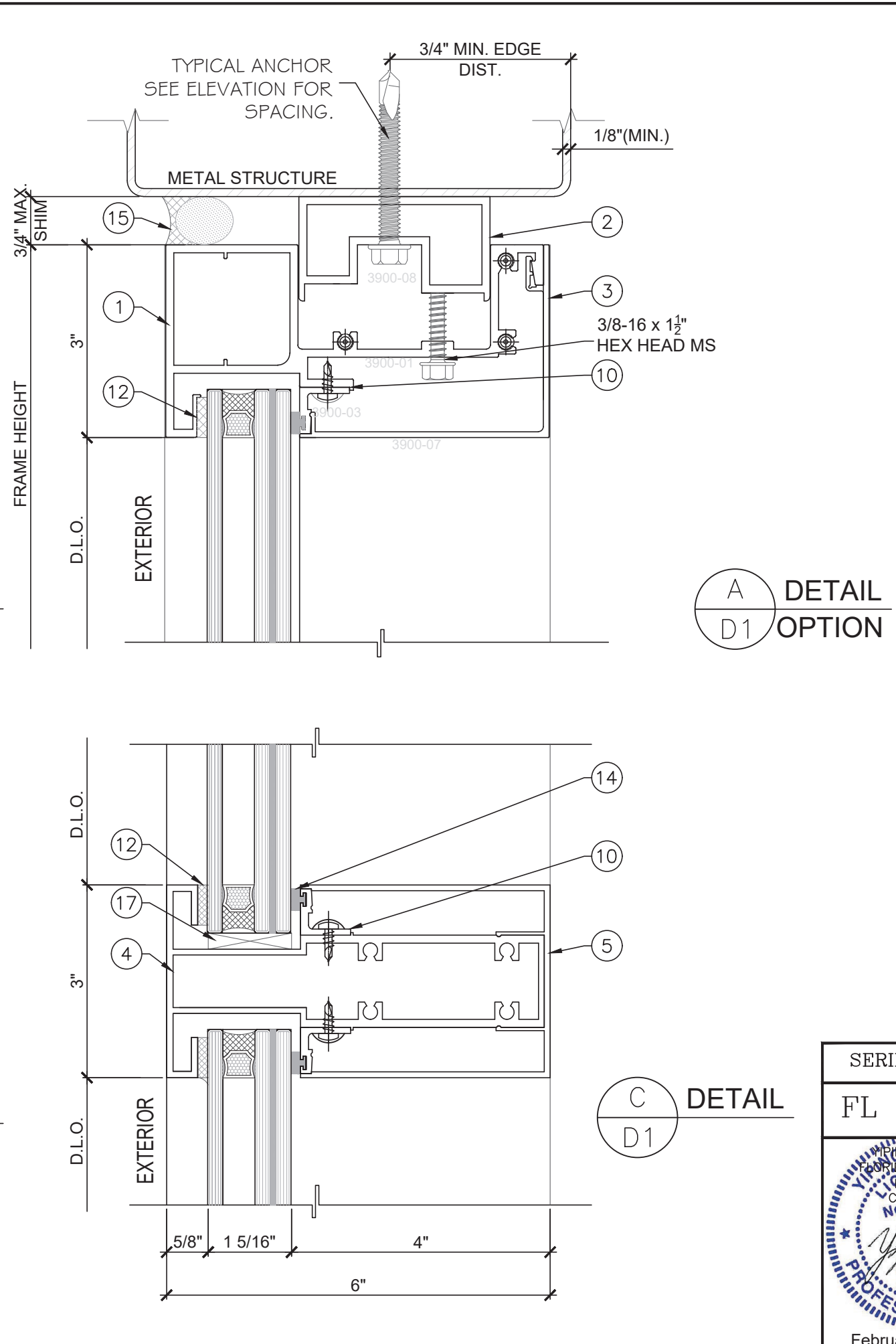
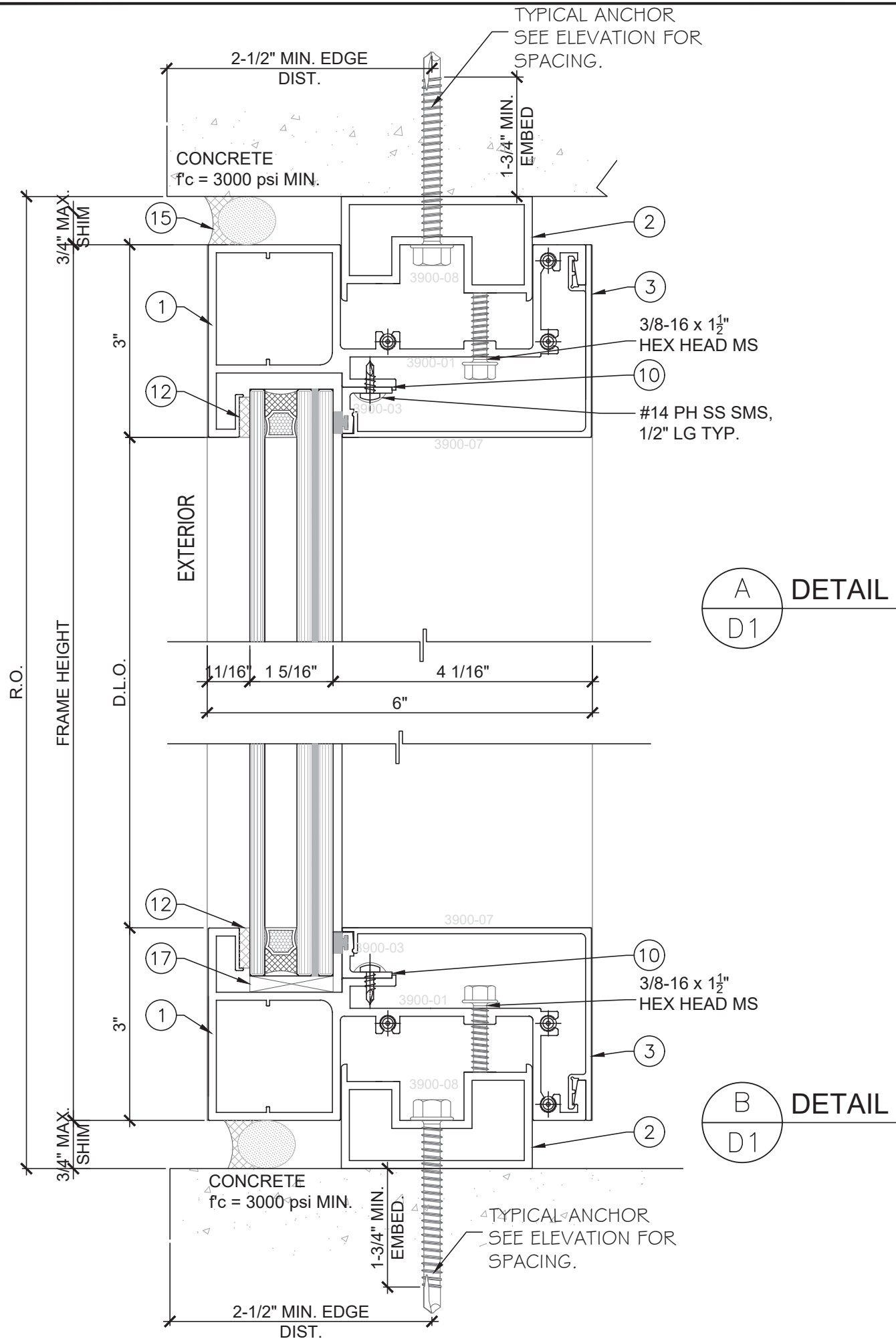
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M2

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DRAWN	James
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DRAWING NO.	AD15-58
	6 OF 12



SERIES 3900WW

FL #20111.5

YONG WANG, P.E.
FLORIDA REGISTRATION
E #55983
C.A.# 36677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

February 05th, 2024

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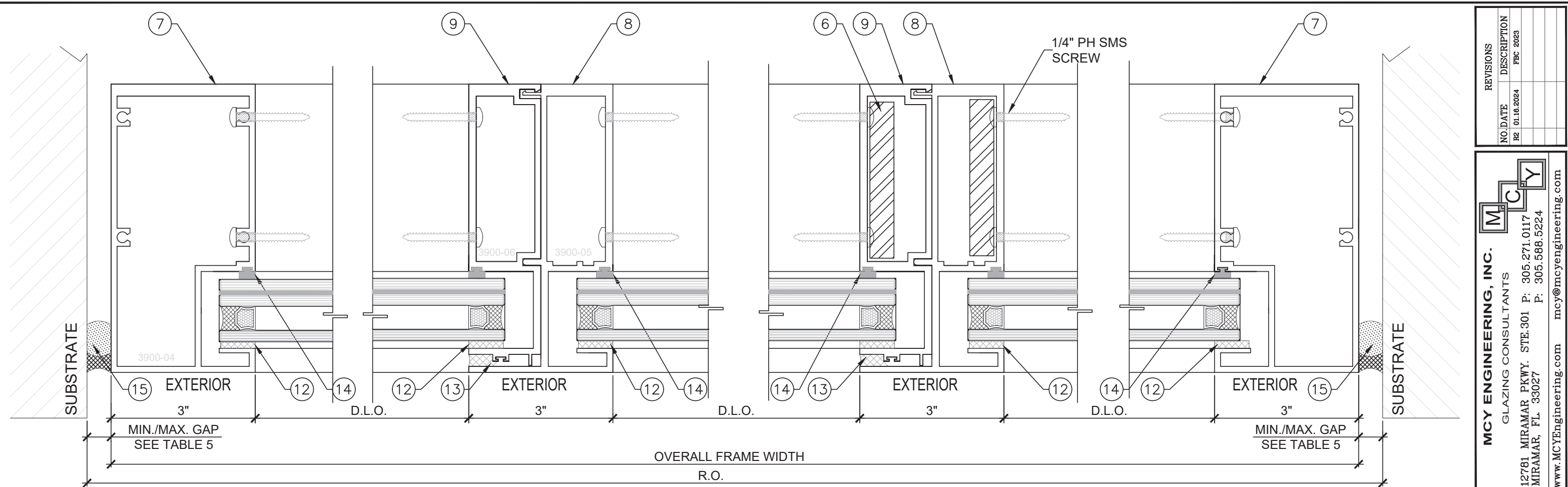
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D1	
DATE	01.16.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	

DRAWING NO.	AD15-58
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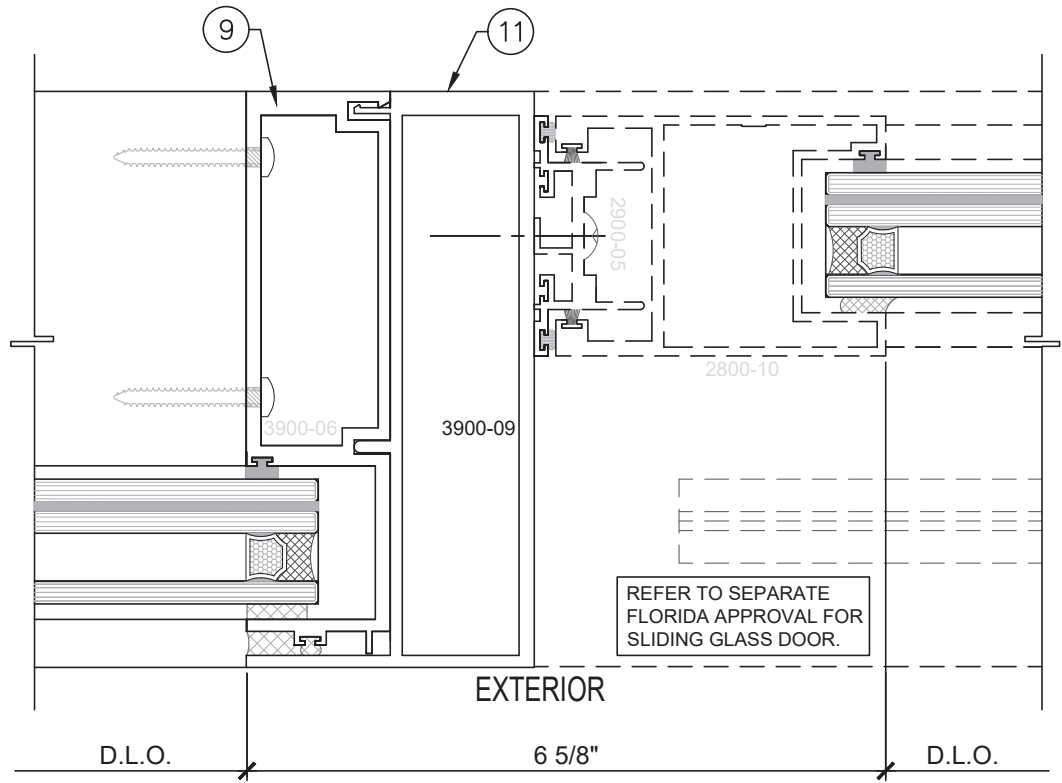


D
D2
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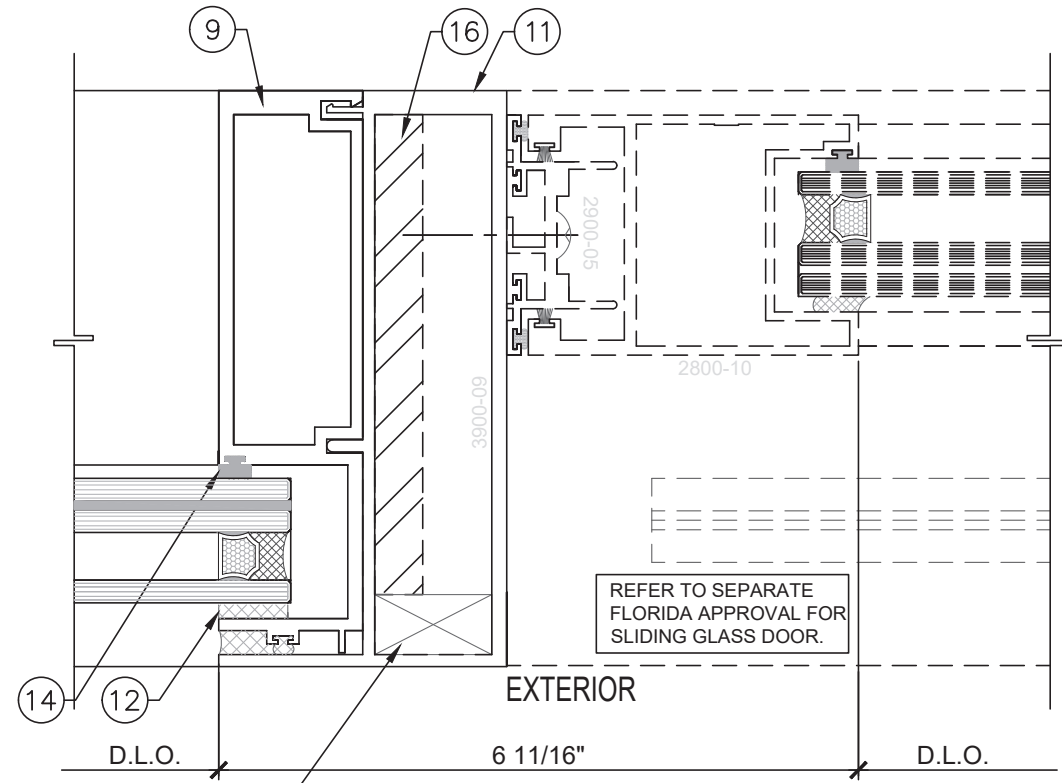
E
D2
DETAIL

G
D2
DETAIL

F
D2
DETAIL



H
D2
DETAIL



I
D2
DETAIL

TABLE 5:

MAX. FRAME HEIGHT	JAMB GAP	
	MIN.	MAX.
90"	5/16"	1-1/2"
96"	5/16"	1-1/2"
102"	3/8"	1-1/2"
108"	3/8"	1-1/2"
114"	3/8"	1-1/2"
120"	1/2"	1-1/2"
126"	1/2"	1-1/2"
130"	1/2"	1-1/2"

SERIES 3900WW

FL #20111.5

YING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.# 98677

February 05th, 2024

REVISIONS

NO.	DATE	DESCRIPTION
R2	01.16.2024	FBC 2023

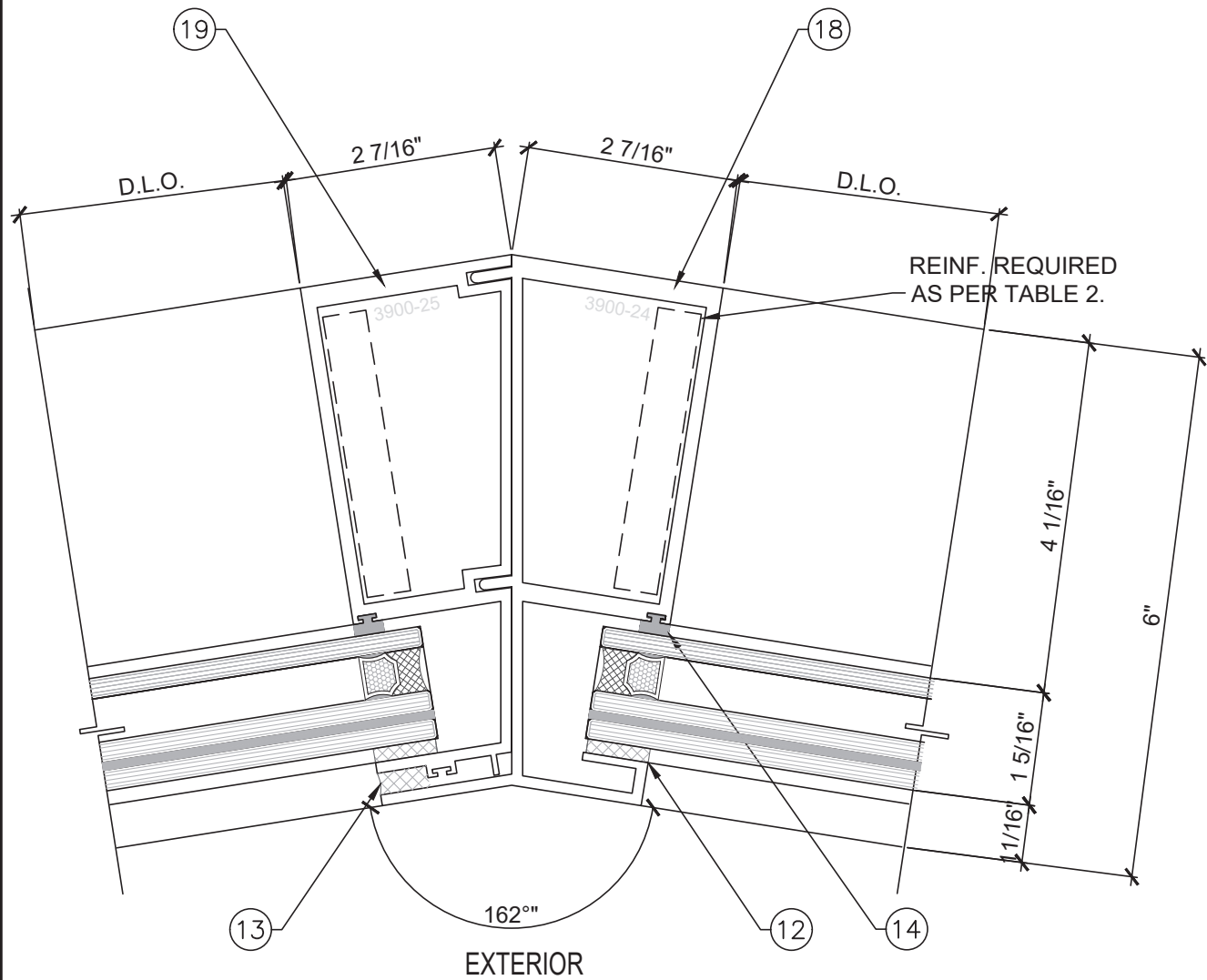
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY. STE.301 P: 305.271.0117
MIRAMAR, FL 33027 P: 305.588.5224
www.MCYEngineering.com mcy@mcyengineering.com

SERIES 3900 WINDOW WALL W/WO REINFORCEMENT - SMI

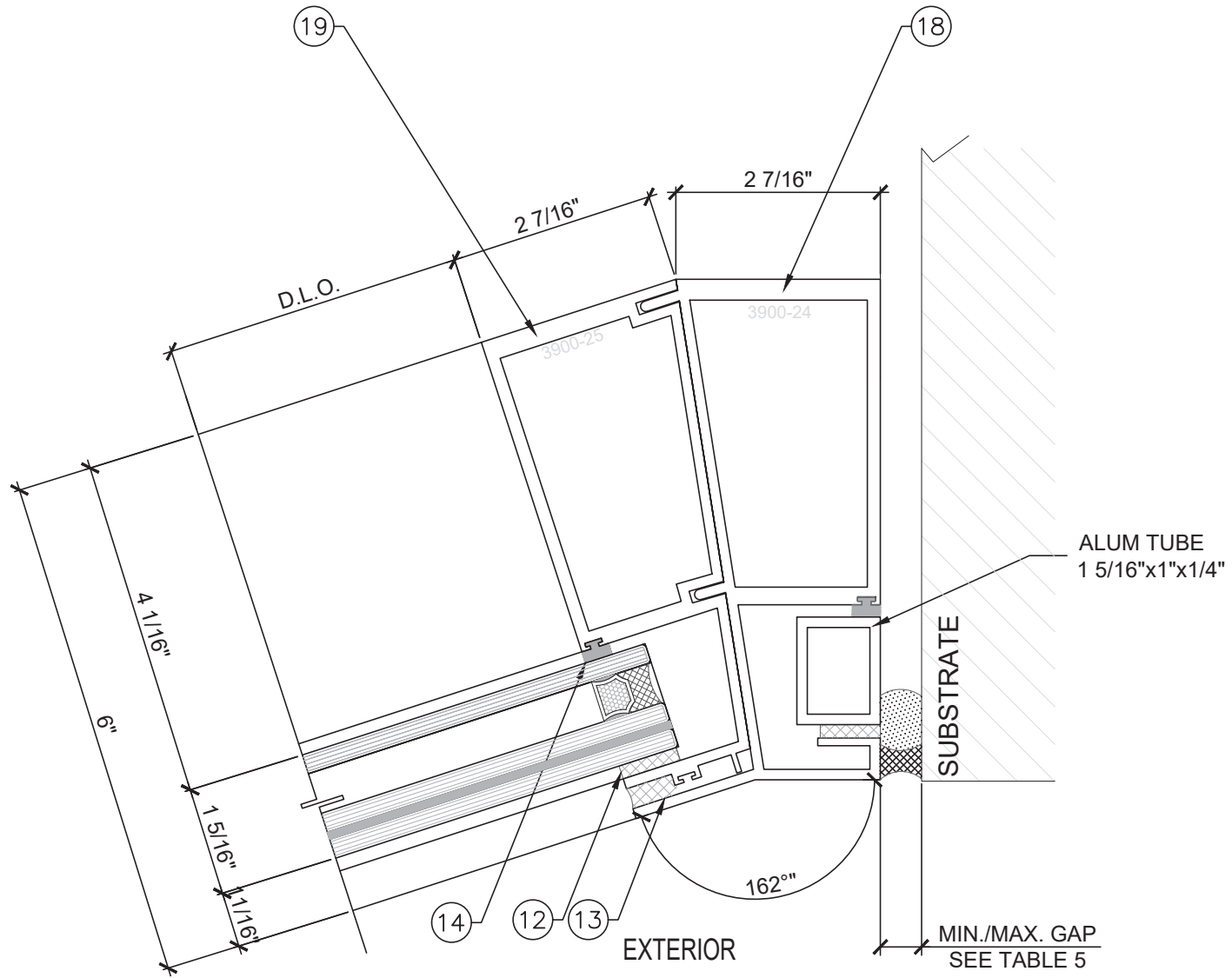
CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

DATE	01.16.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	

DRAWING NO.	AD15-58
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H
D3
DETAIL



J
D3
DETAIL

SERIES 3900WW
FL #20111.5

YONG WANG P.E.
FLORIDA REGISTRATION
E #55983
C.A. #5598677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

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D3	
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PROJECT	
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AD15-58	
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1 HEAD & SILL
3900-01 6005-T5

4 INTERMEDIATE
3900-12 6005-T5

7 JAMB
3900-04 6005-T5

2 ADJUSTER
3900-08 6005-T5

5 COVER
3900-13 6005-T5

8 MALE MULLION
3900-05 6005-T5

3 COVER
3900-07 6063-T6

6 STEEL BAR REINFORCEMENT
3" X 1/2"

9 FEMALE MULLION
3900-06 6005-T5

10 GLAZING BEAD
3900-03 6005-T5

11 MALE MULLION
3900-09 6005-T5

16 STEEL REINF.
1/2" X 5" A36 MIN.

SERIES 3900WW

FL #20111.5

YING WANG, P.E.

FLORIDA REGISTRATION
E #55983
C.A.#28677

STATE OF FLORIDA
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EXTRUSIONS

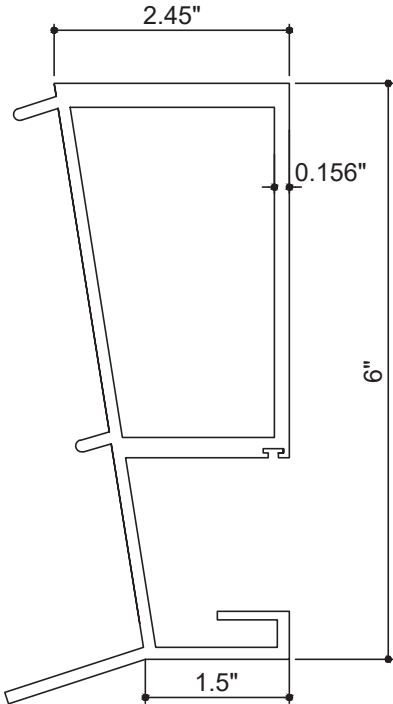
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DRAWING NO.

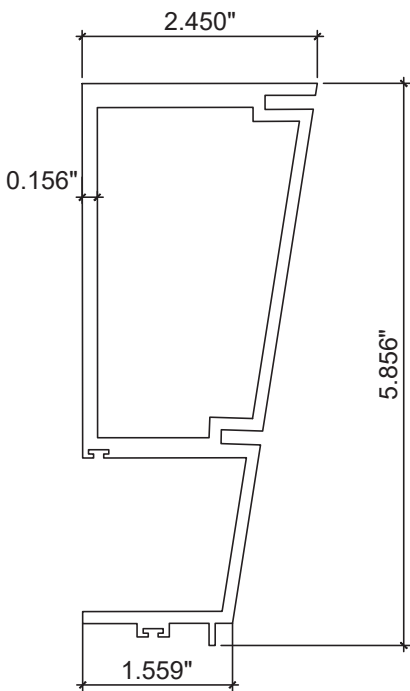
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BILL OF MATERIALS				
ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	3900-01	HEAD/SILL	ALUM. 6005-T5	-
2	3900-08	ADJUSTER	ALUM. 6005-T5	-
3	3900-07	COVER	ALUM. 6063-T6	-
4	3900-12	INTERMEDIATE	ALUM. 6005-T5	-
5	3900-13	COVER	ALUM. 6063-T6	-
6	-	1/2" X 3" STEEL BAR REINFORCEMENT	STEEL	A36 MIN.
7	3900-04	JAMB	ALUM. 6005-T5	-
8	3900-05	MALE MULLION	ALUM. 6005-T5	-
9	3900-06	FEMALE MULLION	ALUM. 6005-T5	-
10	3900-03	GLAZING BEAD	ALUM. 6005-T5	-
11	3900-09	MALE MULLION	ALUM. 6005-T5	-
12	-	DOWSIL STRUCTURAL SEALANT DC983 OR DC795	SILICONE	DOWSIL
13	-	DOWSIL DC795 CONT. PERIMETER SEALANT	SILICONE	DOWSIL
14	-	GASKET	POLYPROPYLENE / SANTOPRENE	ULTRA FAB
15	-	DOWSIL DC790 CONT. PERIMETER SEALANT AND BACKER ROD	SILICONE	DOWSIL
16	-	1/2" X 5" STEEL BAR REINFORCEMENT	STEEL	A36 MIN.
17	-	1/4 " X 3/4 " X 4 " SETTING BLOCK - 70 DURO	SILICONE	-
18	3900-24	MALE MULLION	ALUM. 6005-T5	-
19	3900-25	FEMALE MULLION	ALUM. 6005-T5	-
20	-	GLASS SPACER	ALUMINUM	-



18 MALE MULLION
3900-24 6005-T5



19 FEMALE MULLION
3900-25 6005-T5

SERIES 3900WW

FL #20111.5

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

February 05th, 2024

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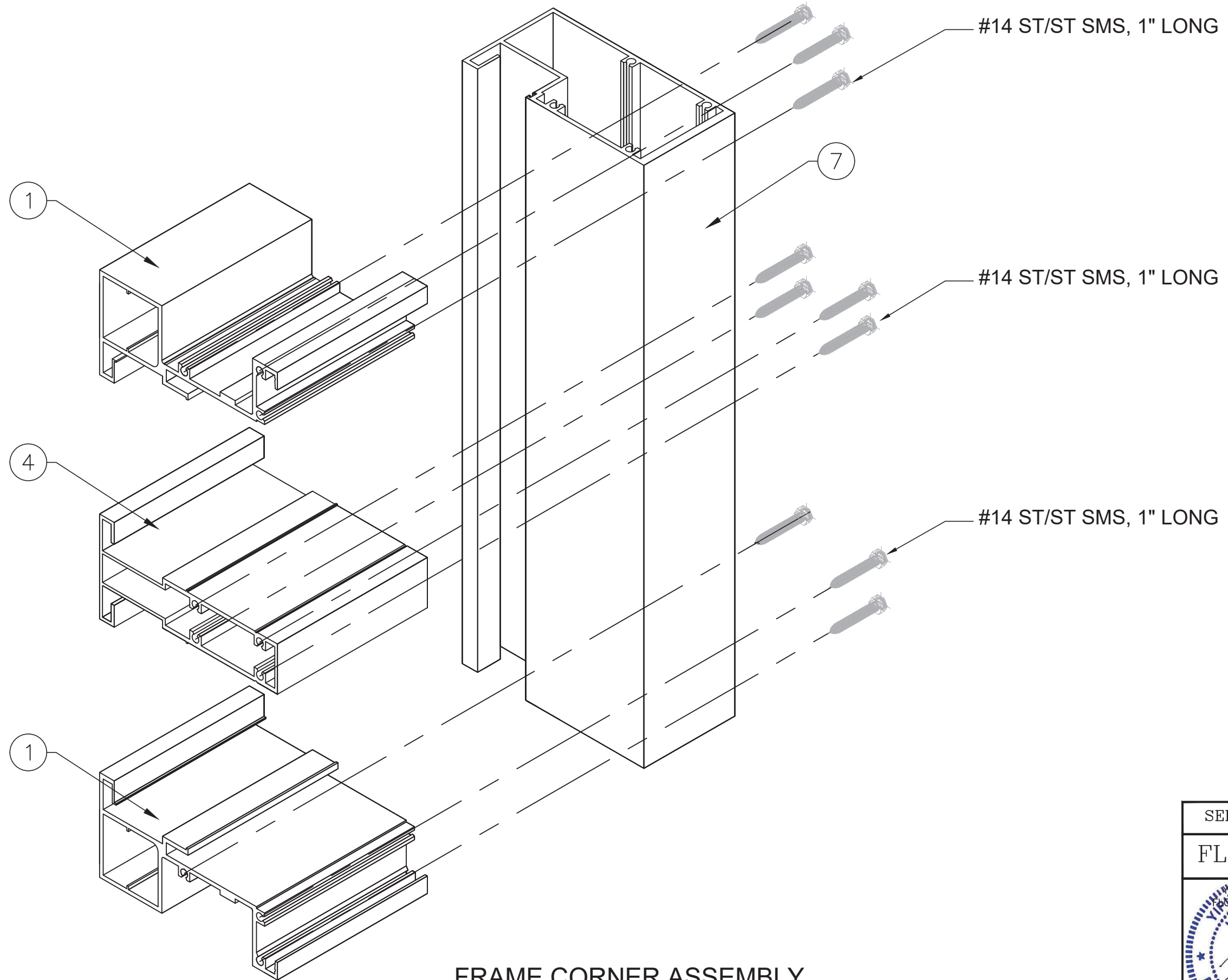
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DATE	01.16.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	

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FRAME CORNER ASSEMBLY
TOP AND BOTTOM

SERIES 3900WW

FL #20111.5

February 05th, 2024

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