

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

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FLORIDA BUILDING CODE (2020) 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 7TH EDITION FLORIDA BUILDING CODE (2020) 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 7-16, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

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 'ELCO' (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. (6063-T5 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 7-16 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.

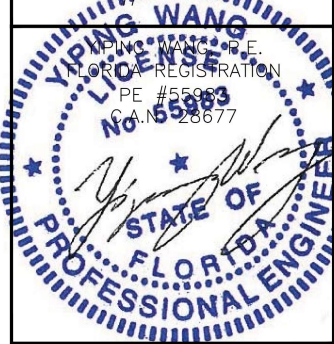
STEP 4: USING CHART ON SHEET A1 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.

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

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 #18312.2



REVISIONS	
NO	DATE
1	10/9/20

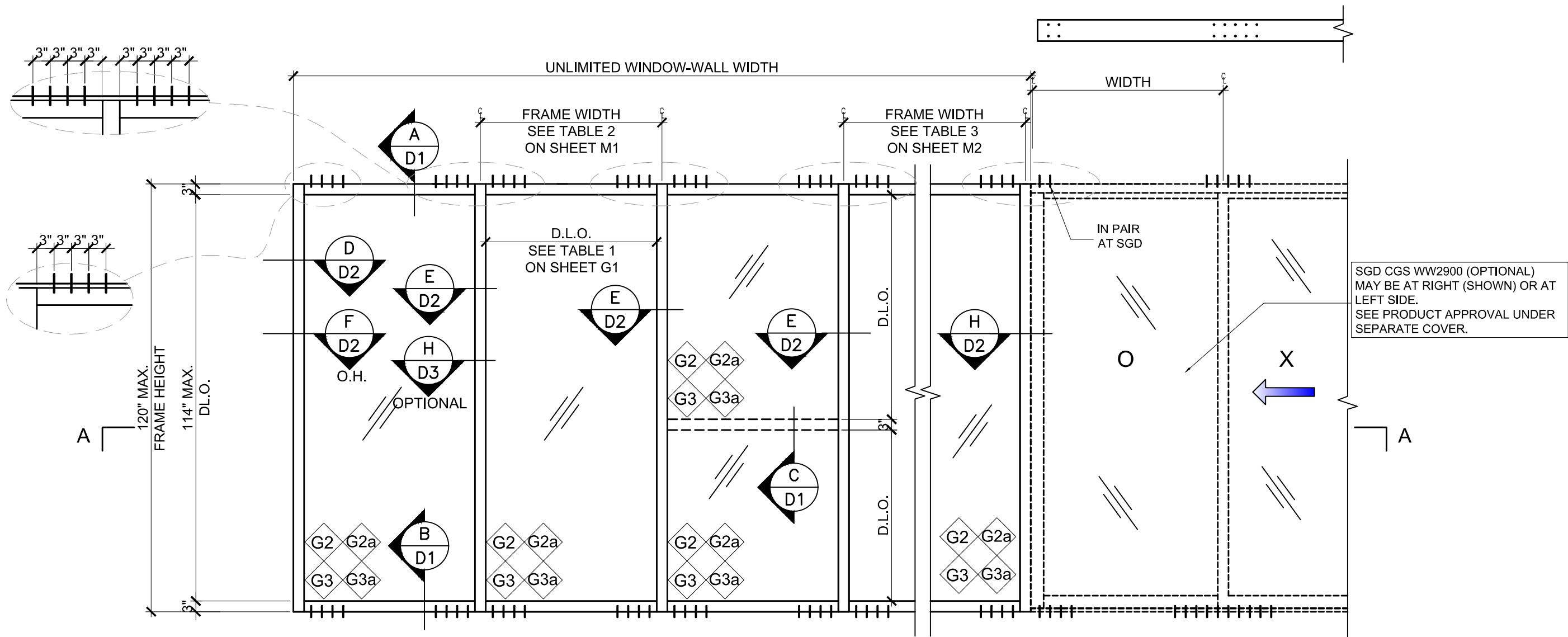
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MCY ENGINEERING, INC.
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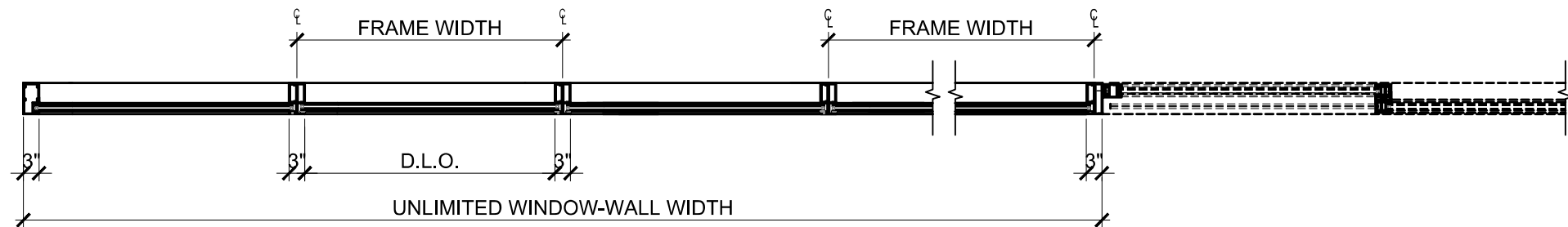
SERIES 3900 WINDOW WALL W/VO REINFORCEMENT - SMI

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

COVER	
DATE	08/21/15
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	15-101
DRAWING NO.	
AD15-58	
1 OF 12	



MAX ALLOWABLE DESIGN LOAD (REFER TO TABLES 1, 2, 3 & 4)
+ 126.0 PSF
- 126.0 PSF



SERIES 3900WW

FL #18312.2

YIPING WANG
PROFESSIONAL ENGINEER
FLORIDA REGISTRATION
PE #55983
C.A.N. 26677

REVISIONS	NO	DATE	DESCRIPTION
	1	10/9/20	UPDATE TO FBC 2020

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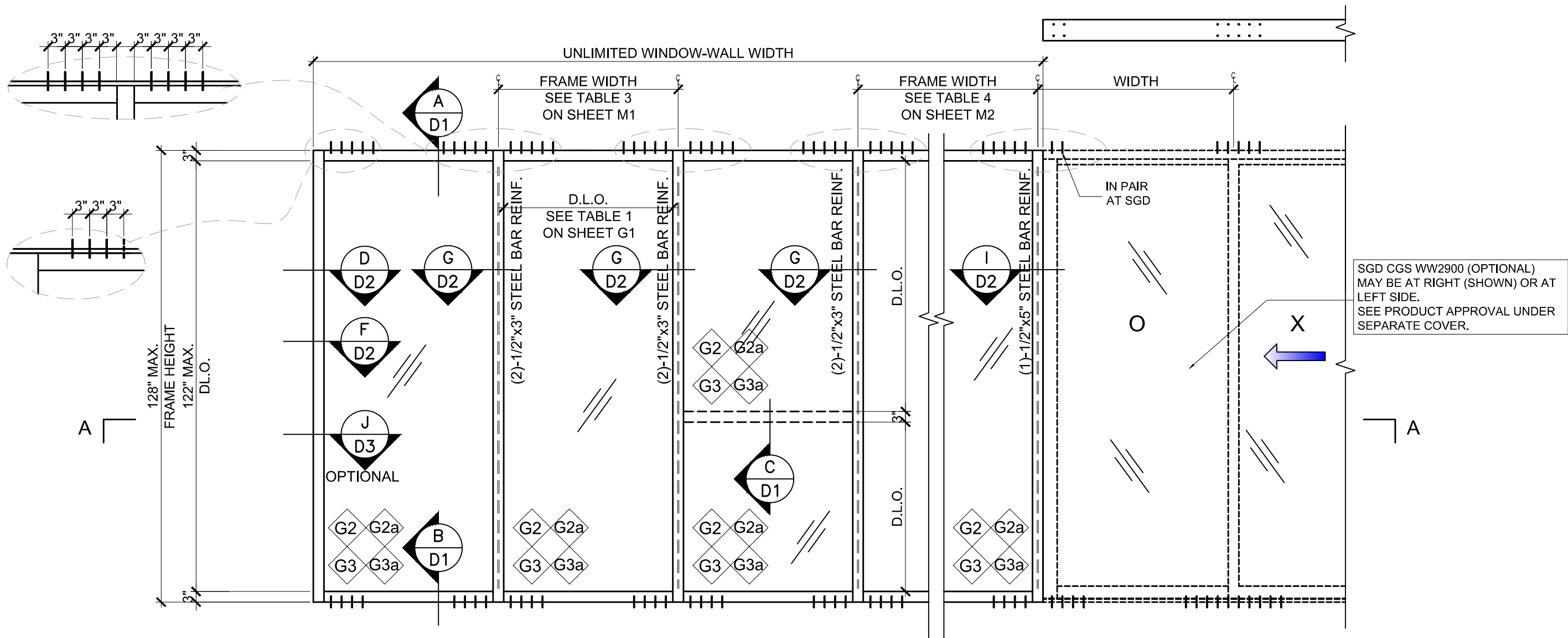
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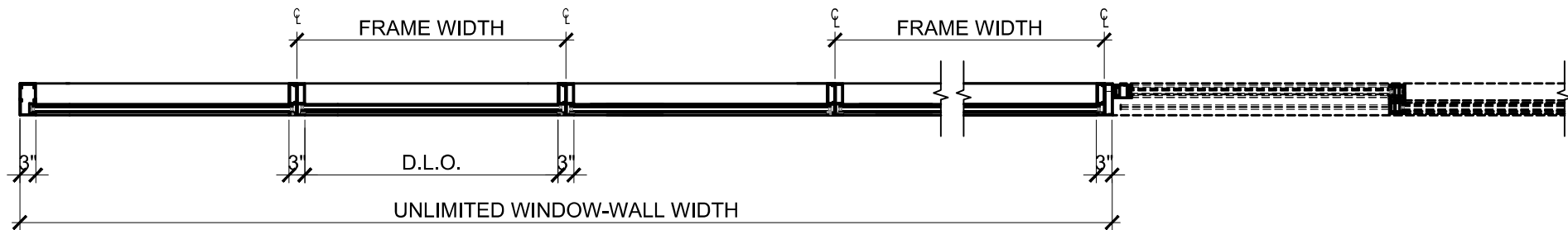
E1	
DATE	08/21/15
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	15-101
DRAWING NO.	
AD15-58	
2 OF 12	



MAX ALLOWABLE
DESIGN LOAD
(REFER TO TABLES 1, 2, 3 & 4)

+ 141.0 PSF
- 141.0 PSF

TYPICAL EXTERIOR ELEVATION
REINFORCED



SECTION A-A

SERIES 3900WW

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PROFESSIONAL ENGINEER

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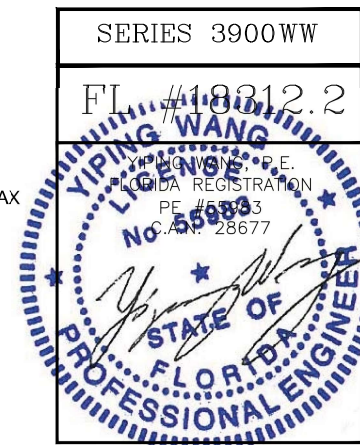
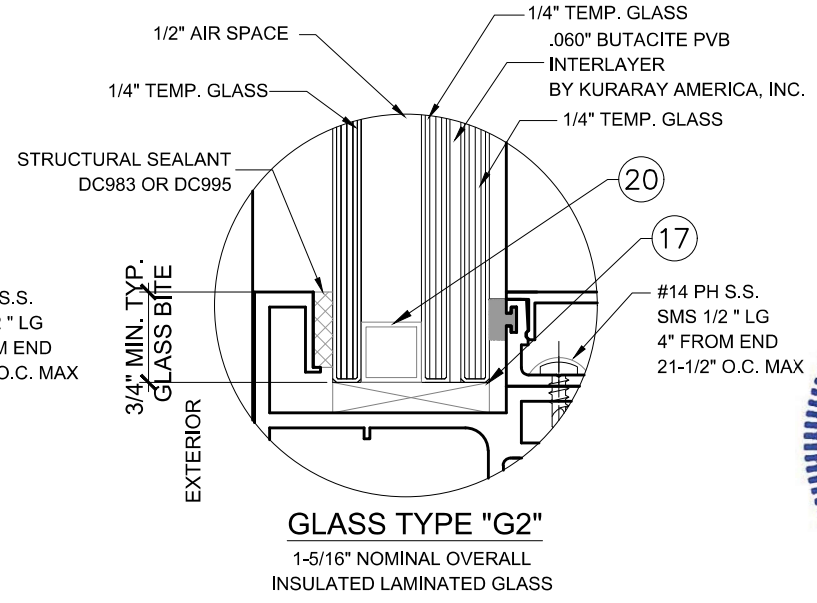
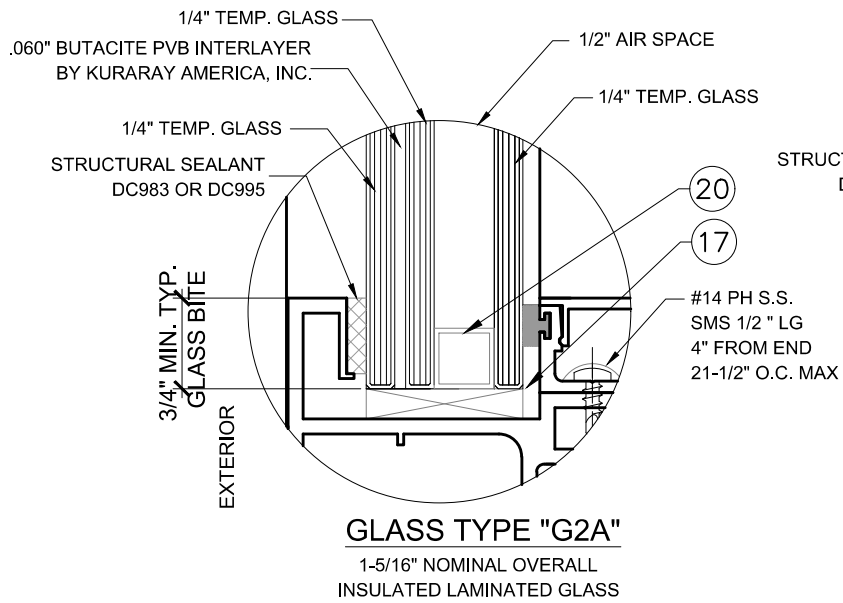
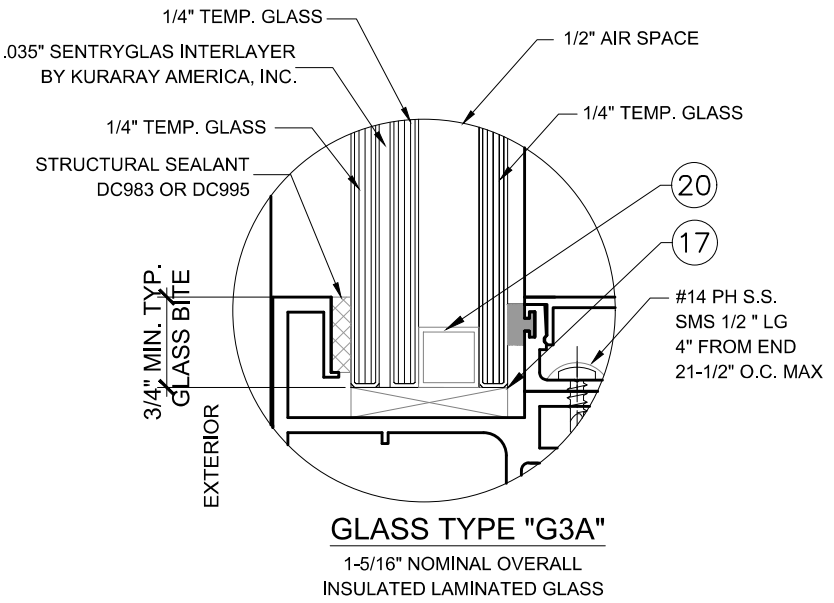
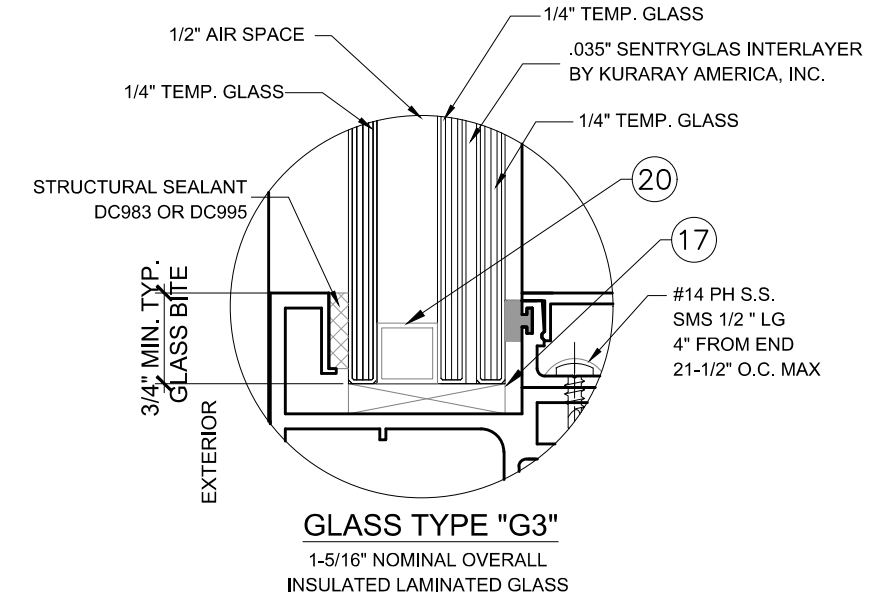
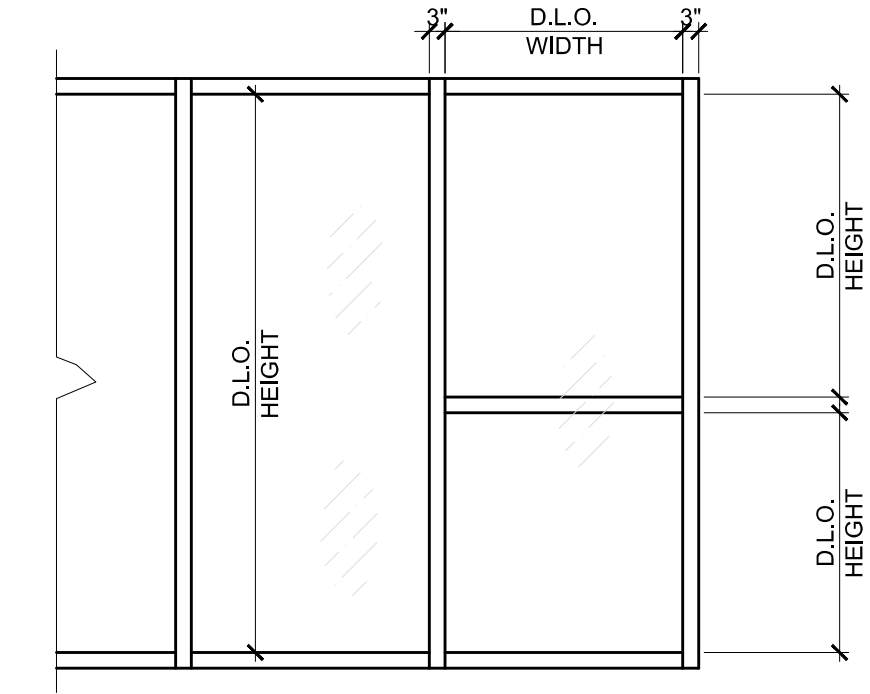
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E2	
DATE	08/21/15
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	15-101
DRAWING NO.	AD15-58
3 OF 12	

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
45	96	141	141
51		141	141
57		141	141
60		141	141
45	102	141	141
51		141	141
54		141	141
57		141	141
45	108	141	141
48		141	141
51		141	141
54		141	141
42	114	141	141
45		141	141
48		141	141
51		141	141
42	120	141	141
45		141	141
48		141	141
42	124	141	141
45		141	141
48		141	141

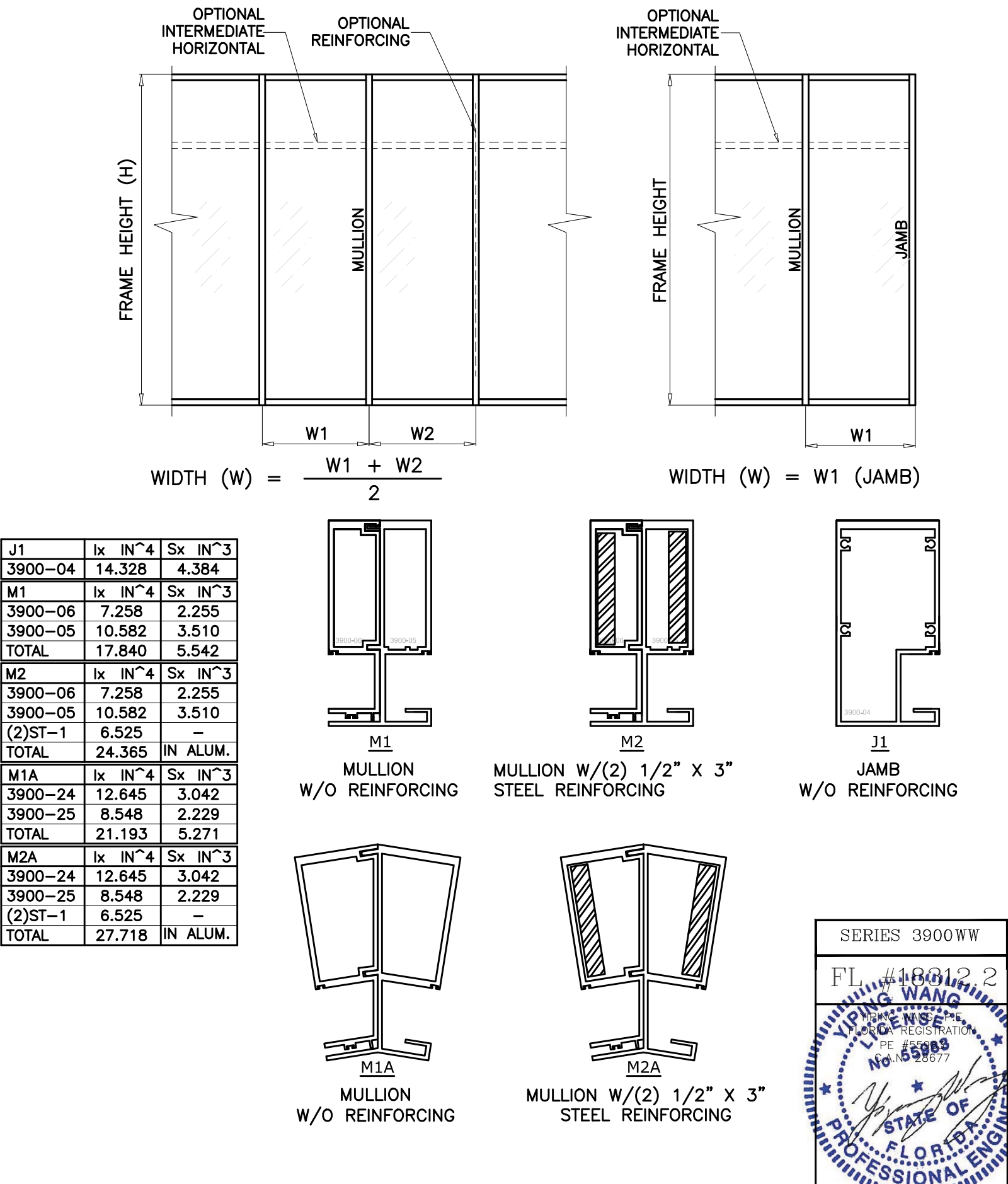
NOTE:
GLASS COMPLIES WITH ASTM
E1300-09 (3 SEC. GUSTS).



REVISIONS	
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CONTINENTAL GLASS SYSTEMS, LLC.	
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TEL (305) 231-1101 FAX (305) 231-1103	
G1	
DATE	08/21/15
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DRAWN	T.G.
PROJECT	15-101
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	126	–	–	141.0	141.0	141.0
45		–	–	141.0	141.0	141.0
48		–	–	141.0	141.0	141.0
51	128	–	–	141.0	141.0	141.0
45		–	–	141.0	141.0	141.0
48		–	–	141.0	141.0	141.0
51	128	–	–	141.0	141.0	140.0
54		–	–	141.0	141.0	140.0



SERIES 3900WW

FL #18812 2

YIPING WANG

PE #55983

CA No. 28677

STATE OF FLORIDA

PROFESSIONAL ENGINEER

DATE 08/21/15

SCALE AS SHOWN

DRAWN T.G.

PROJECT 15-101

DRAWING NO. AD15-58

5 OF 12

REVISIONS

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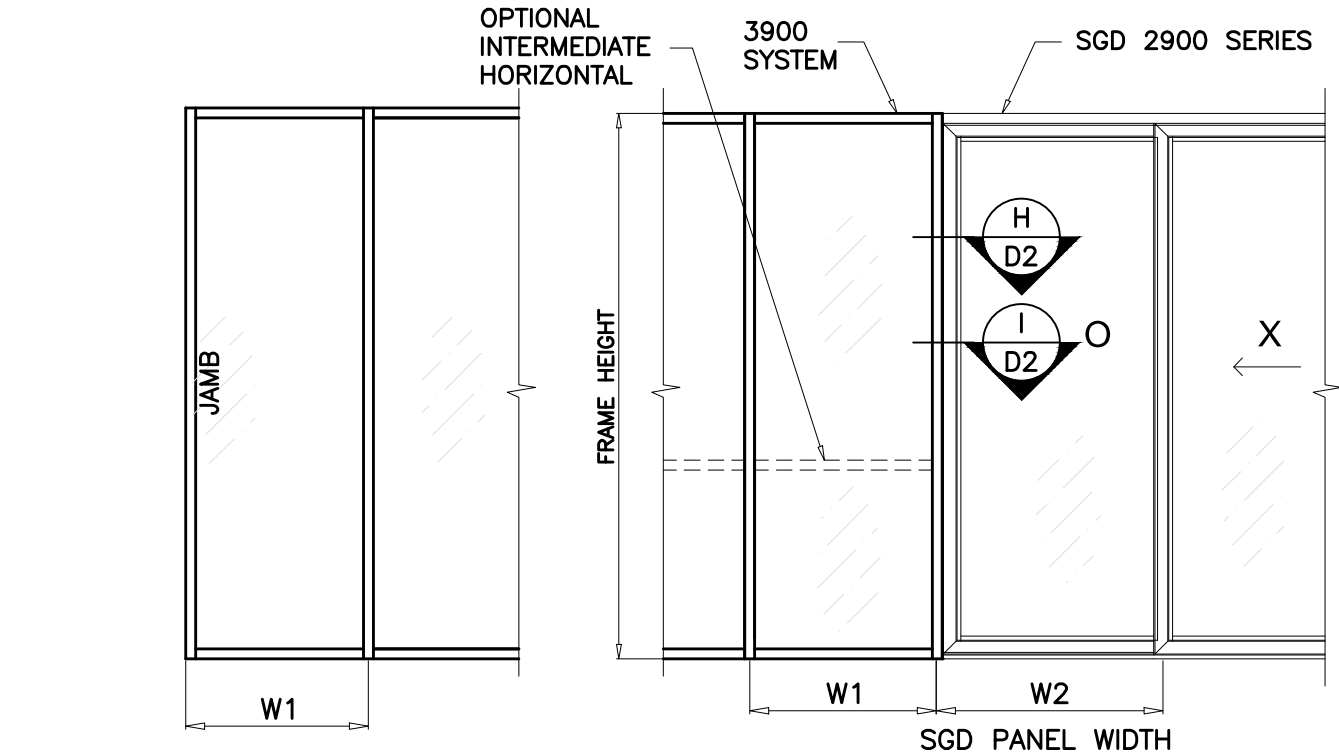
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M1

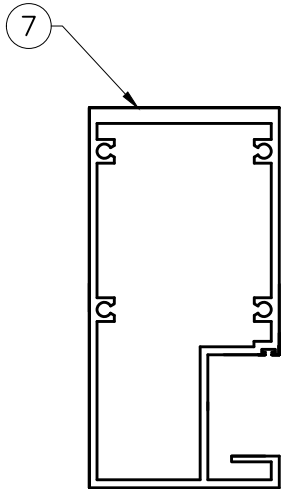
TABLE 3:

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
72		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
66		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

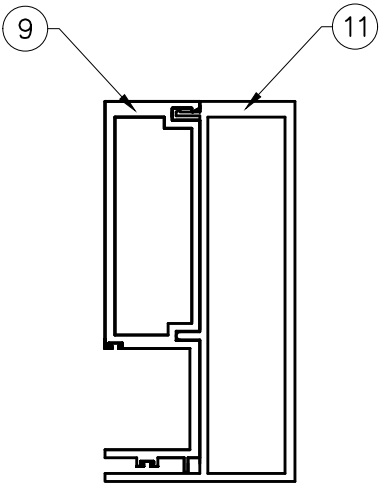


WIDTH (W) = W1 (JAMB)

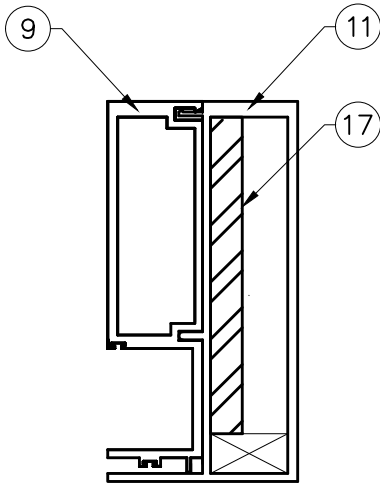
WIDTH (W) = $\frac{W1 + W2}{2}$



J1
JAMB
W/O REINFORCING

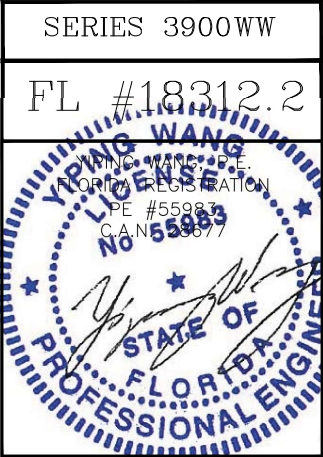


M3
MULLION
W/O REINFORCING



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.



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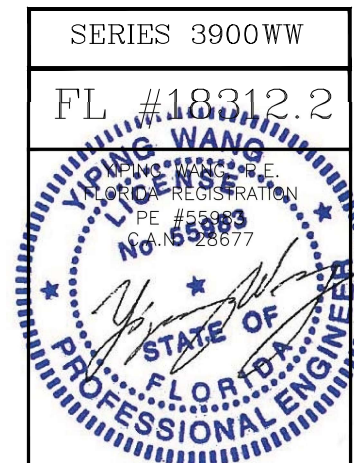
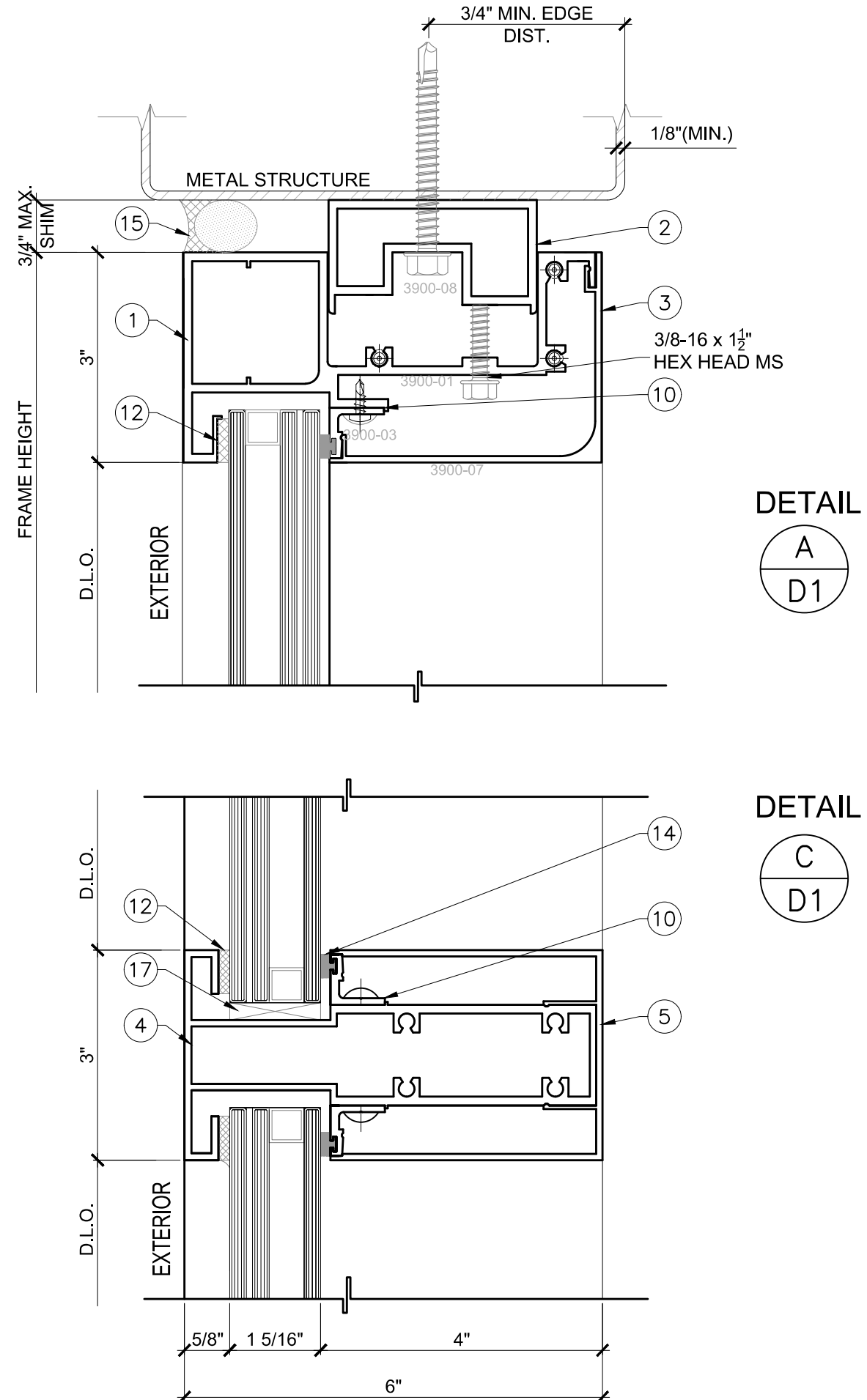
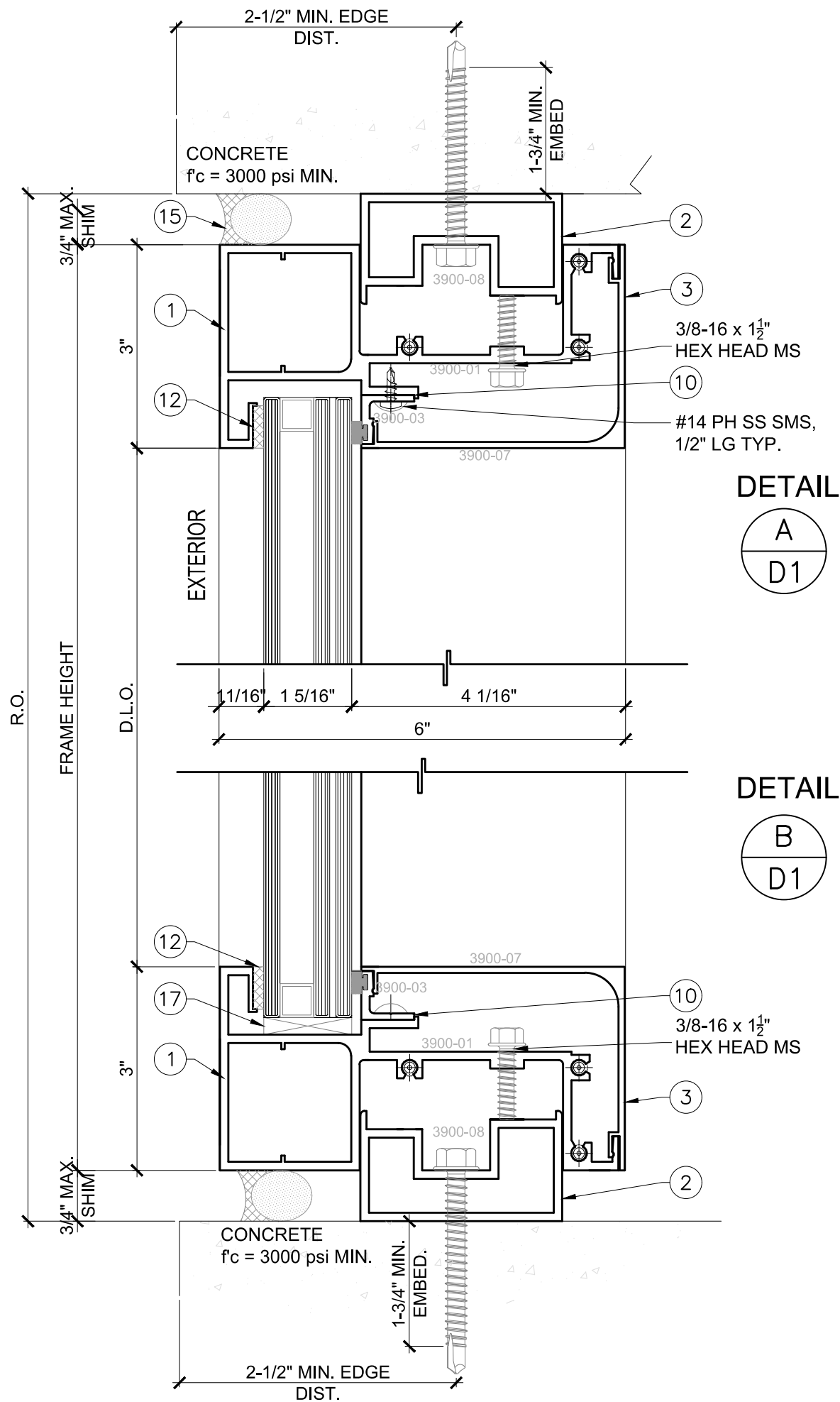
786.360.2786

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M2	
DATE	08/21/15
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AD15-58	
6 OF 12	



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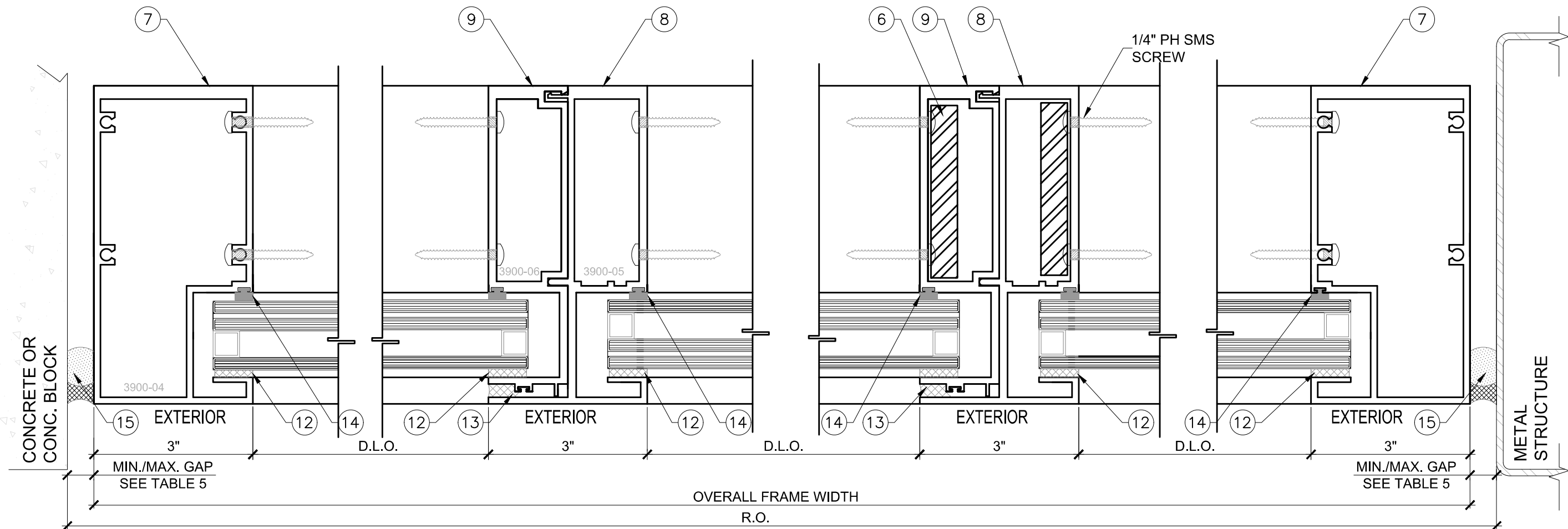
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	7 OF 12

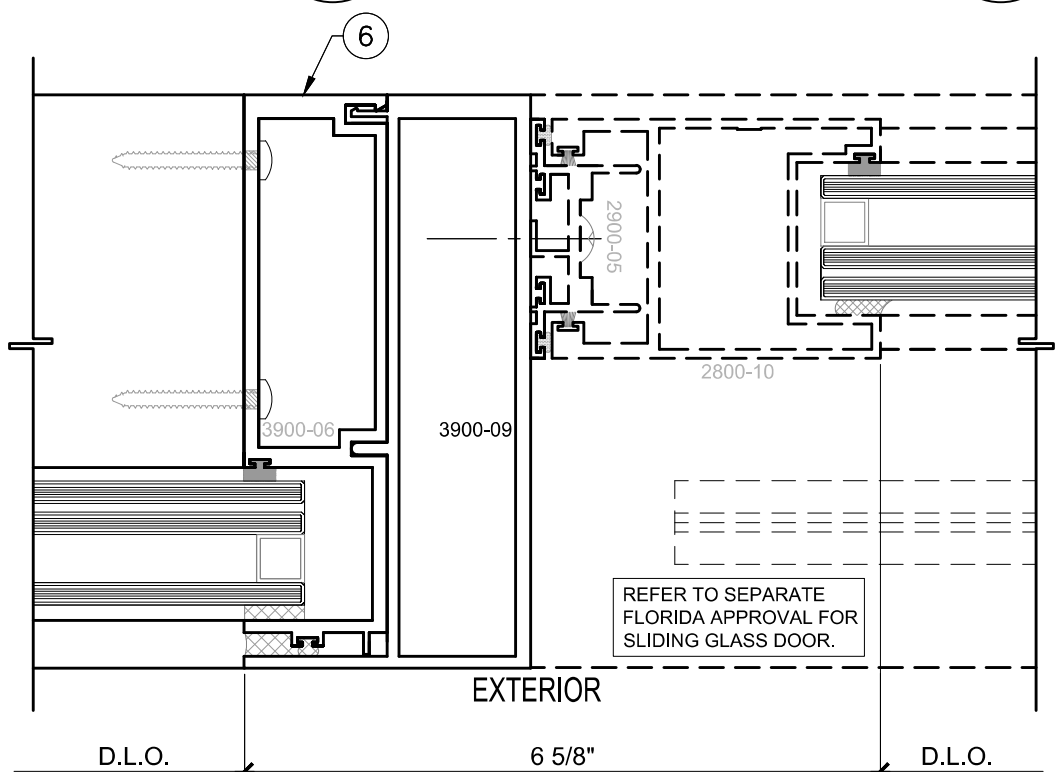


DETAIL D
D2

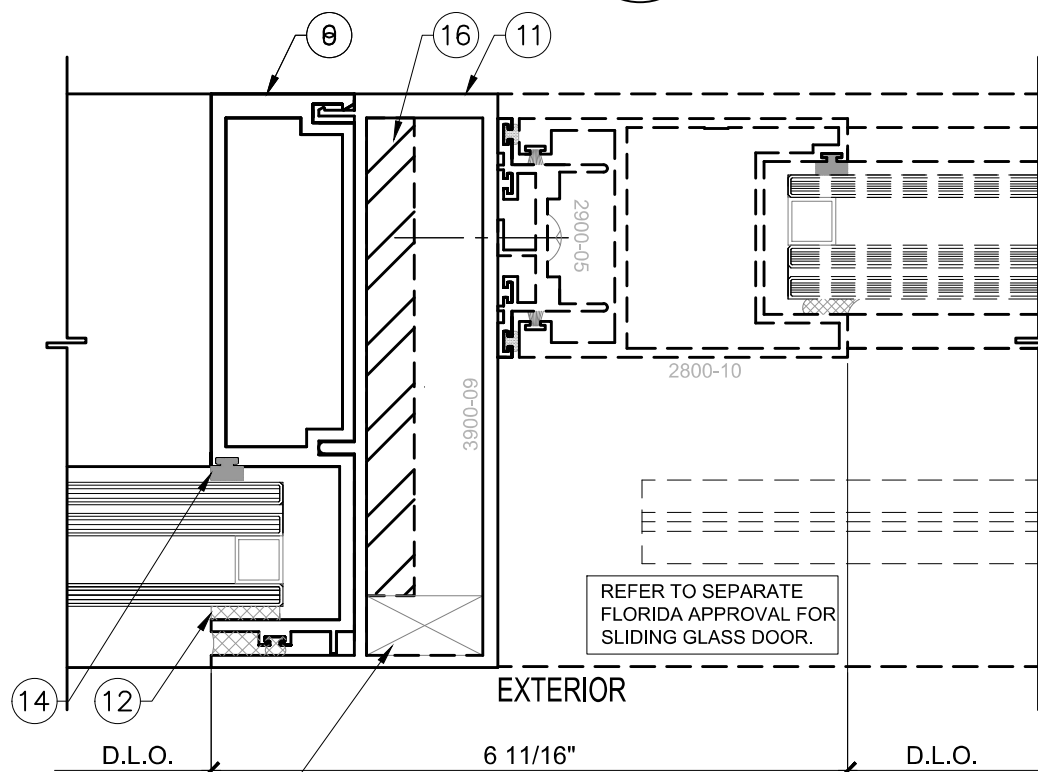
DETAIL E
D2

DETAIL G
D2

DETAIL F
D2



DETAIL H
D2



DETAIL I
D2

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 #18312.2

YIPING WANG
PE #55983
No. 55983

STATE OF FLORIDA
PROFESSIONAL ENGINEER

NO.	DATE	DESCRIPTION
1	10/9/20	UPDATE TO FBC 2020

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

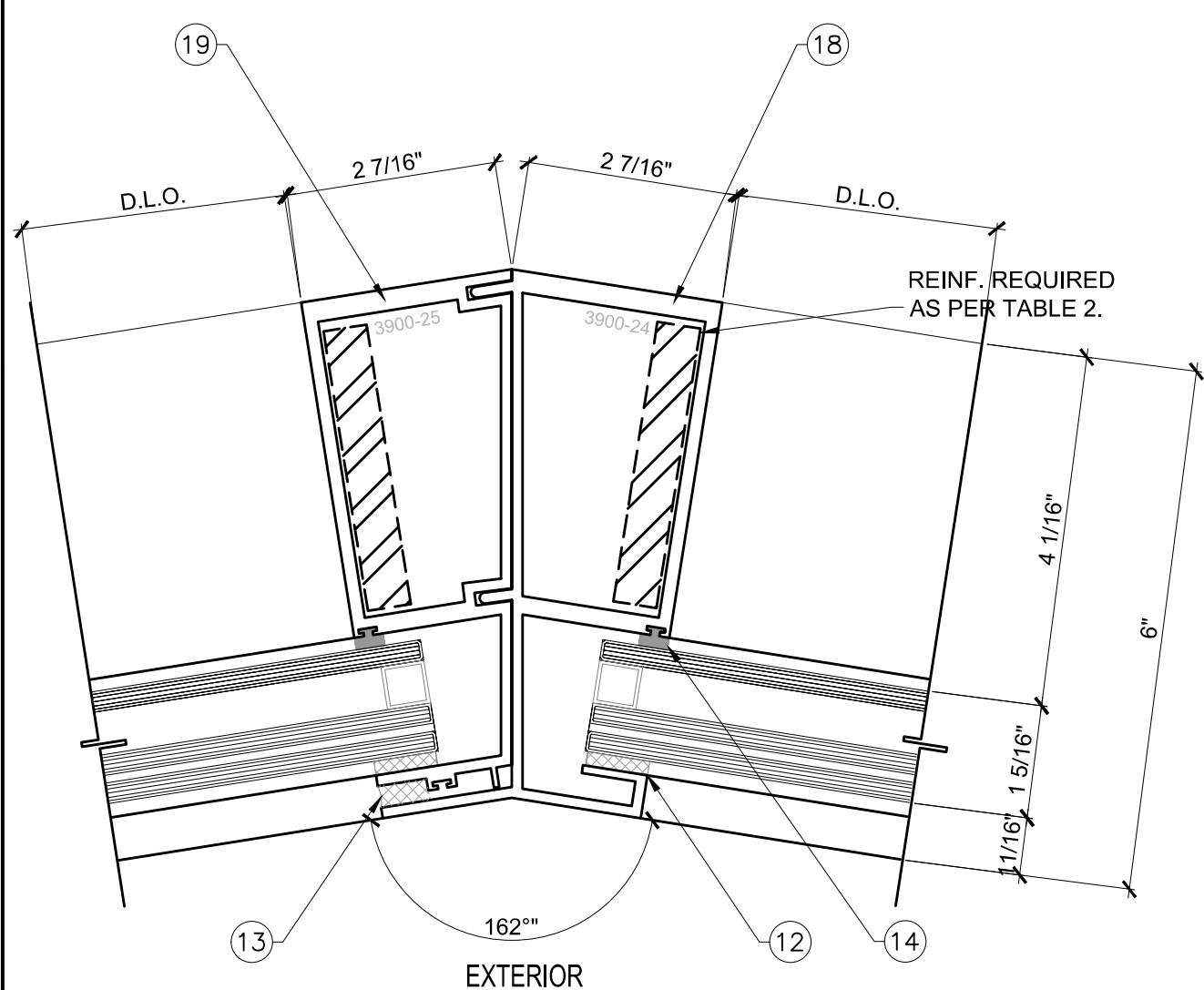
12781 MIRAMAR PKWY. STE. 301 P: 305.271.0117
MIRAMAR, FL 33027 P: 786.360.2786

www.MCYEngineering.com mcy@mcyengineering.com

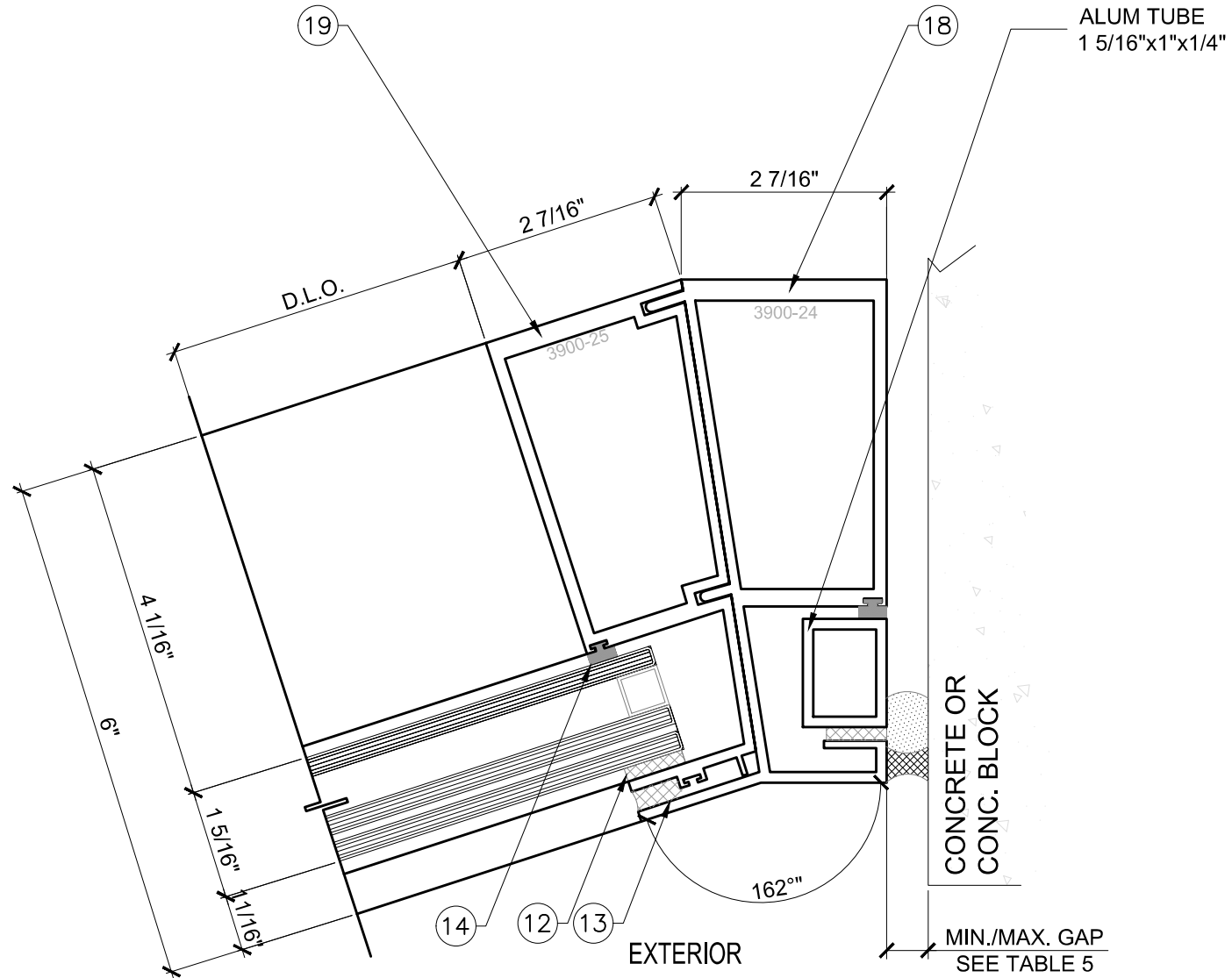
SERIES 3900 WINDOW WALL W/O REINFORCEMENT - SMI

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

D2	
DATE	08/21/15
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	15-101
DRAWING NO.	AD15-58
8 OF 12	



DETAIL H
D3



DETAIL J
D3

SERIES 3900WW

FL #18312.2

YIPING WANG
PE #55983
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D3
DATE 08/21/15
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DRAWN T.G.
PROJECT 15-101
DRAWING NO. AD15-58
9 OF 12

1 HEAD & SILL
3900-01 6005-T5

2 ADJUSTER
3900-08 6005-T5

3 COVER
3900-07 6063-T6

10 GLAZING BEAD
3900-03 6005-T5

4 INTERMEDIATE
3900-12 6005-T5

5 COVER
3900-13 6005-T5

6 STEEL BAR REINFORCEMENT
3" X 1/2"

11 MALE MULLION
3900-09 6005-T5

7 JAMB
3900-04 6005-T5

8 MALE MULLION
3900-05 6005-T5

9 FEMALE MULLION
3900-06 6005-T5

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

SERIES 3900WW

FL #18312.2

YIPING WANG

PROFESSIONAL ENGINEER

STATE OF FLORIDA

PE #55983

CA.#26677

DATE

08/21/15

SCALE

AS SHOWN

DRAWN

T.G.

PROJECT

15-101

DRAWING NO.

AD15-58

10 OF 12

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

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MIRAMAR, FL 33027 P: 786.360.2786

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SERIES 3900 WINDOW WALL W/WO REINFORCEMENT - SMI

CONTINENTAL GLASS SYSTEMS, LLC.

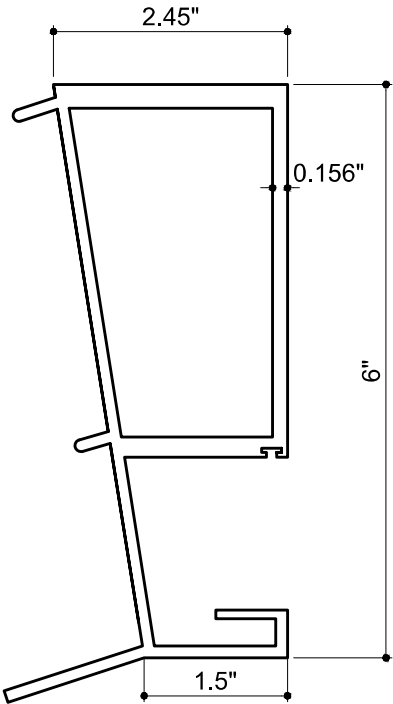
325 WEST 74 PLACE HIALEAH, FL 33014

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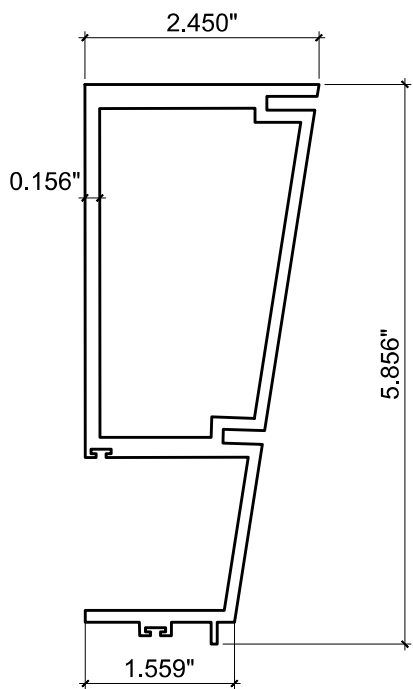
REVISIONS

NO	DATE	DESCRIPTION
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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 #18312.2

YIPING WANG

FLORIDA REGISTERED PROFESSIONAL ENGINEER

PE #55983

C.A.N. 28677

REVISIONS

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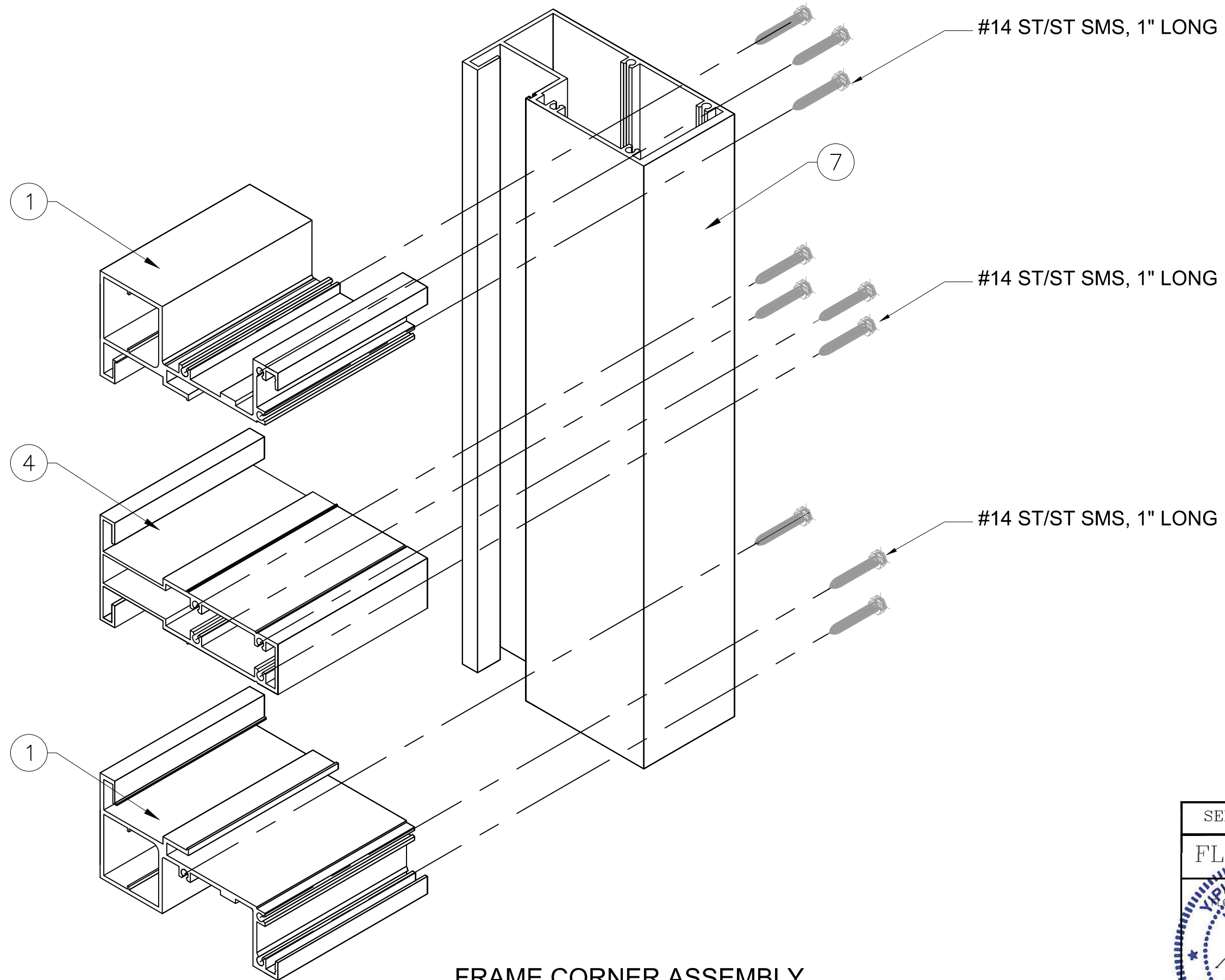
TEL (305) 231-1101 FAX (305) 231-1103

BOM

DATE	08/21/15
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PROJECT	15-101

DRAWING NO.
AD15-58

11 OF 12



FRAME CORNER ASSEMBLY
TOP AND BOTTOM

SERIES 3900WW

FL #18312.2

YIPING WANG
Professional Engineer
FLORIDA REGISTRATION
PE #55983
C.A.N. 26677

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CONTINENTAL GLASS SYSTEMS, LLC.
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