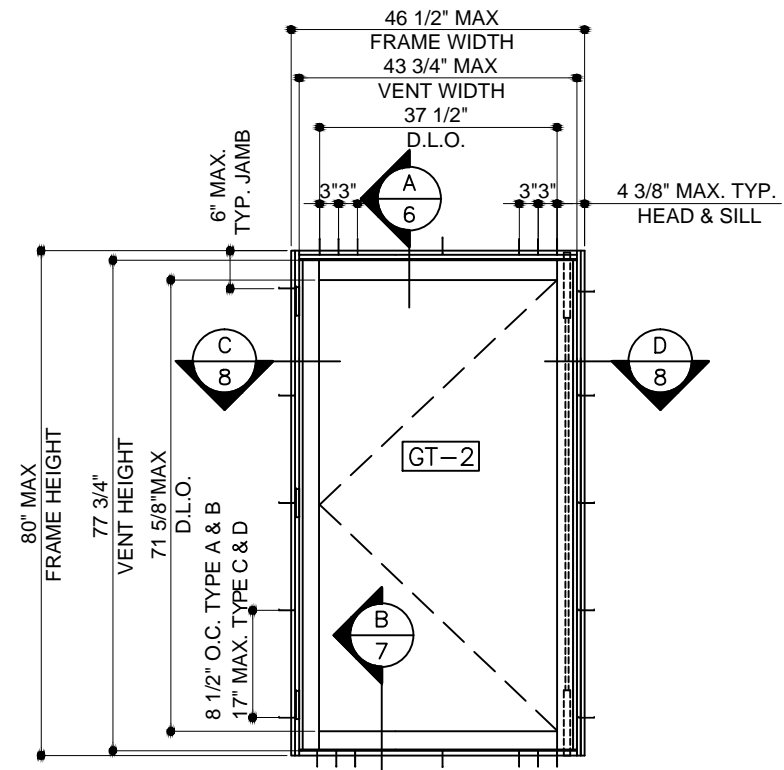


TYPICAL EXTERIOR ELEVATION (XX)

DESIGN PRESSURE  
SEE CHART ON SHEET 4



TYPICAL EXTERIOR ELEVATION (X)

DESIGN PRESSURE  
SEE CHART ON SHEET 4

**GENERAL NOTES:**

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 5TH EDITION FLORIDA BUILDING CODE 2014 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED FOR UNIT INSTALLED 30 FT ABOVE GROUND LEVEL.
- 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.
- WOOD BUCKS BY OTHERS MUST BE SOUTHERN PINE, G = 0.55 AND MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

- A LOAD DURATION FACTOR IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.
- PROVIDE 1/4" MAX. LOAD BEARING SHIM SPACE (TYP.).
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2014 FLORIDA BUILDING CODE SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY CONTINENTAL GLASS SYSTEMS INC. MUST SUPPORT LOADS IMPOSED BY WINDOW SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.
- DESIGN LOAD OBTAINED FROM ASCE 7-10, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT.

**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.

FLY 18395.2

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

STATE OF FLORIDA  
PROFESSIONAL ENGINEER

NO	DATE	DESCRIPTION
1	8.20.14	REF'S COMMENTS
2	10.30.15	REVISION 2

**MCY**

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS

8501 SW 124 Ave, Ste. 205A P: 305.271.0117  
MIAMI, FL 33183 F: 205.279.6818

www.MCYEngineering.com MCY.Engineering@Att.net

SERIES 7200 ALUMINUM BI-FOLDING WINDOW - SMI

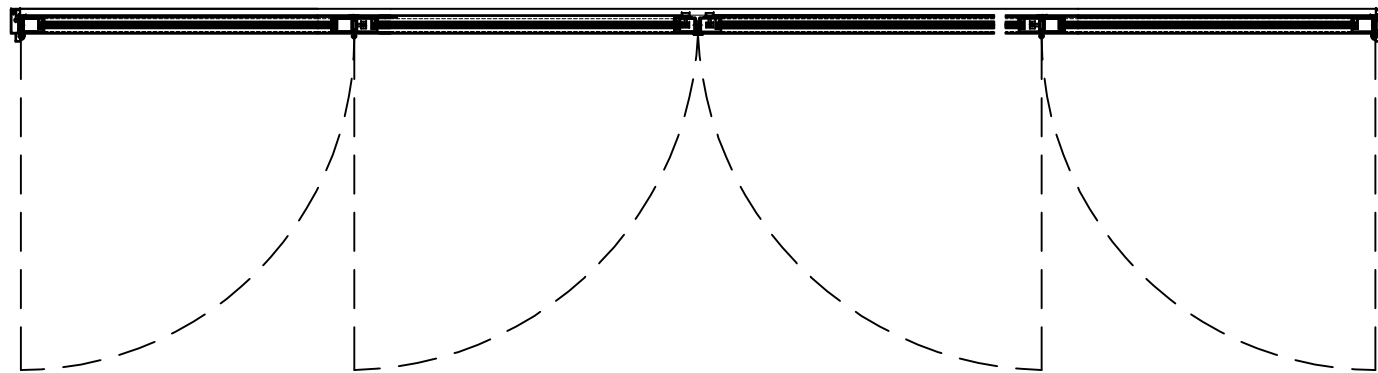
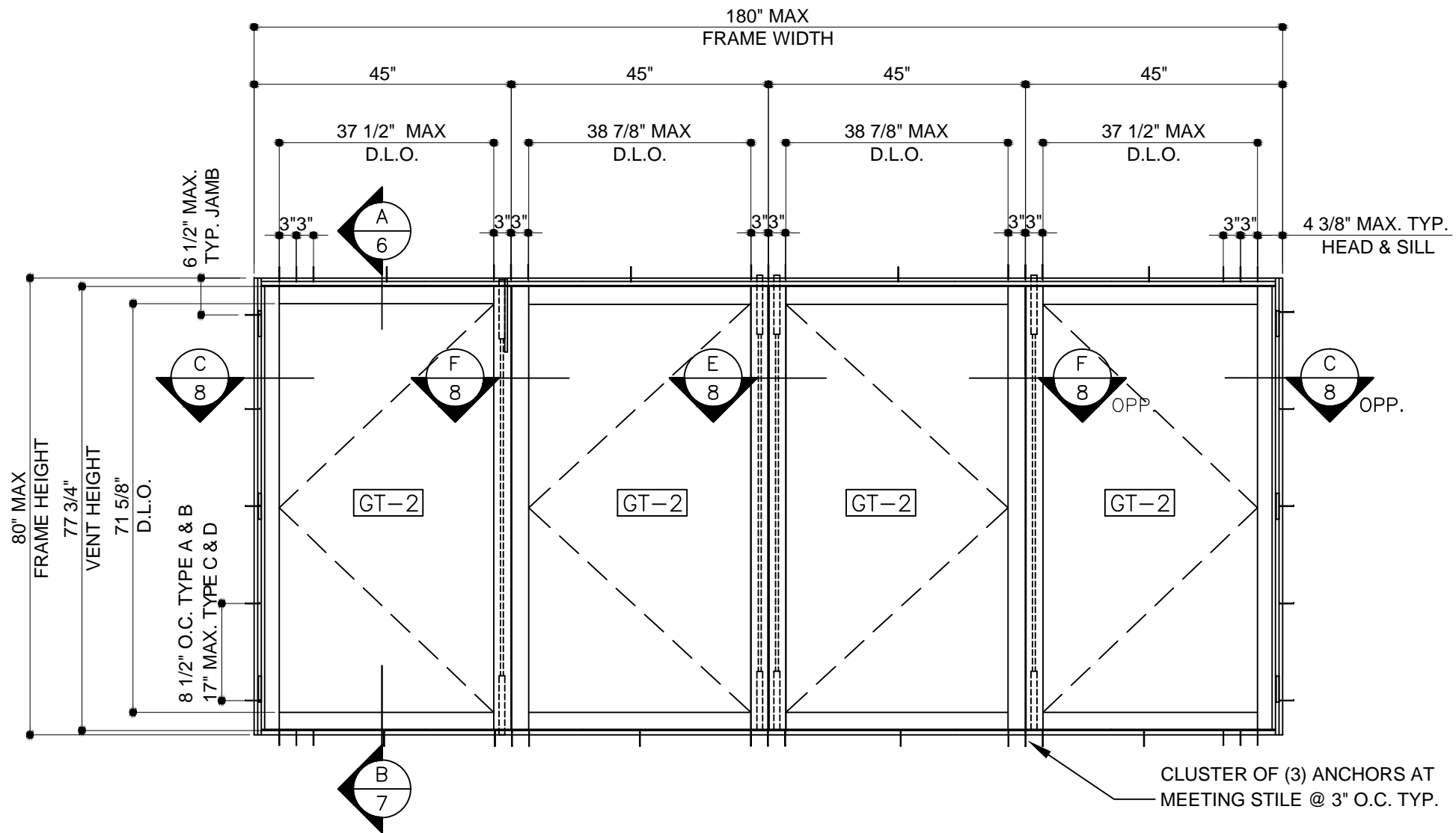
CONTINENTAL GLASS SYSTEMS INC.

325 WEST 74TH PLACE HIALEAH, FL 33014

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

DATE	06/02/14
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	13-003
DRAWING NO.	AD15-72
1 OF 11	

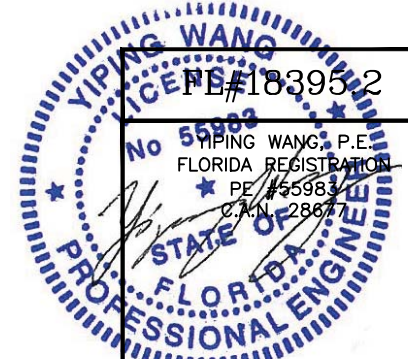
November 2nd, 2015



TYPICAL EXTERIOR ELEVATION (XXXX)

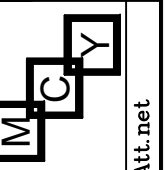
DESIGN PRESSURE  
SEE CHART ON SHEET 5

CLUSTER OF (3) ANCHORS AT  
MEETING STILE @ 3" O.C. TYP.



November 2nd, 2015

REVISIONS	
NO.	DATE
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2	10.30.15

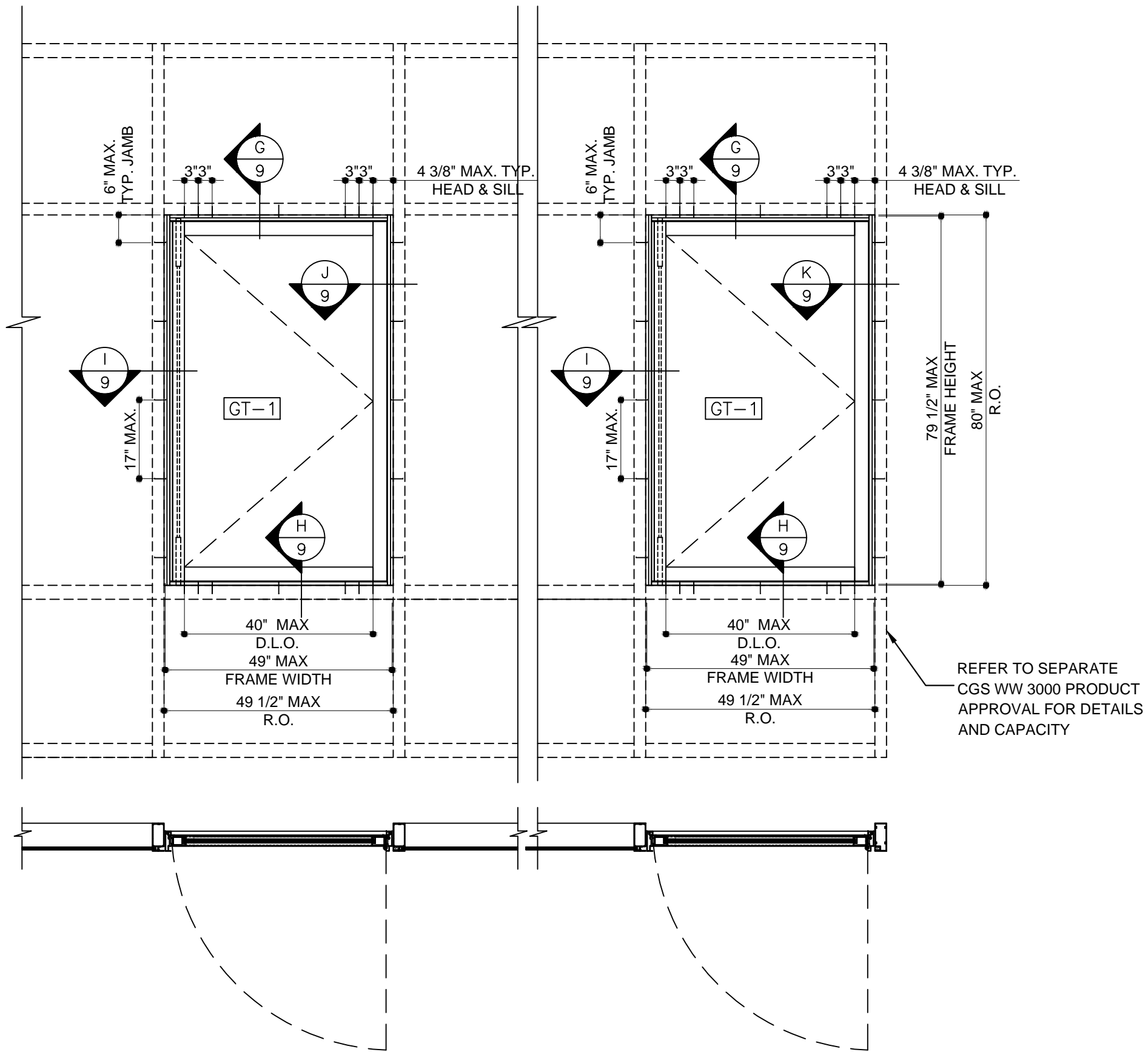


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AD15-72



REFER TO SEPARATE  
CGS WW 3000 PRODUCT  
APPROVAL FOR DETAILS  
AND CAPACITY

TYPICAL EXTERIOR ELEVATION (X)  
INSIDE WINDOW-WALL CGS 3000

DESIGN PRESSURE  
SEE CHART ON SHEET 4

YIPING WANG  
FLORIDA REGISTERED PROFESSIONAL ENGINEER  
PE # 55983  
C.A.N. 2867

DATE 06/02/14  
SCALE AS SHOWN  
DRAWN T.G.  
PROJECT 13-003

November 2nd, 2015

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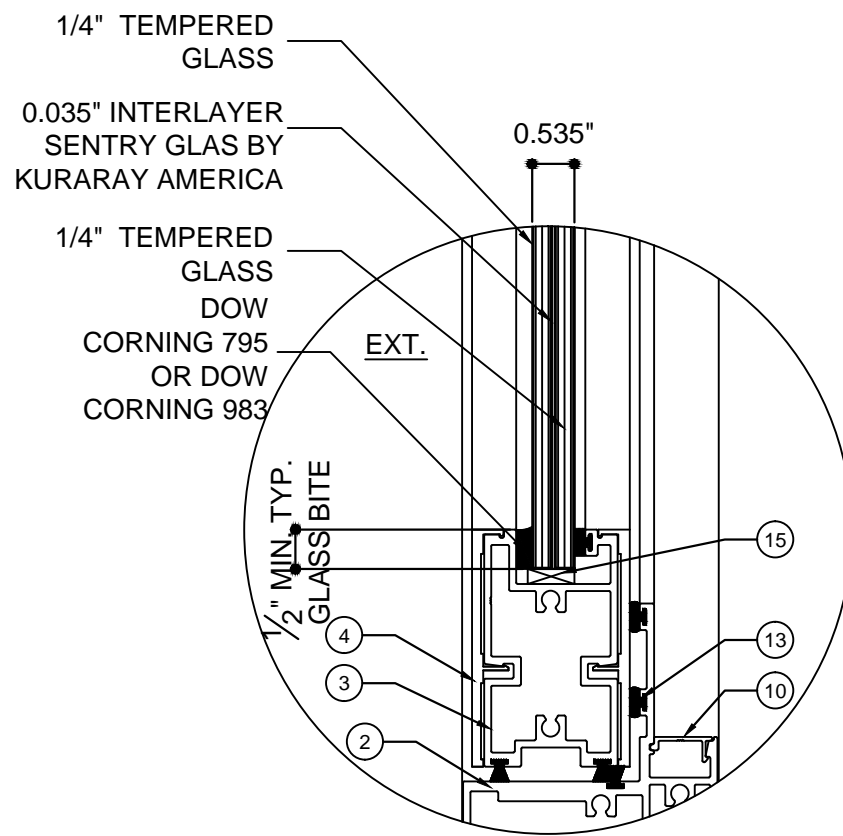
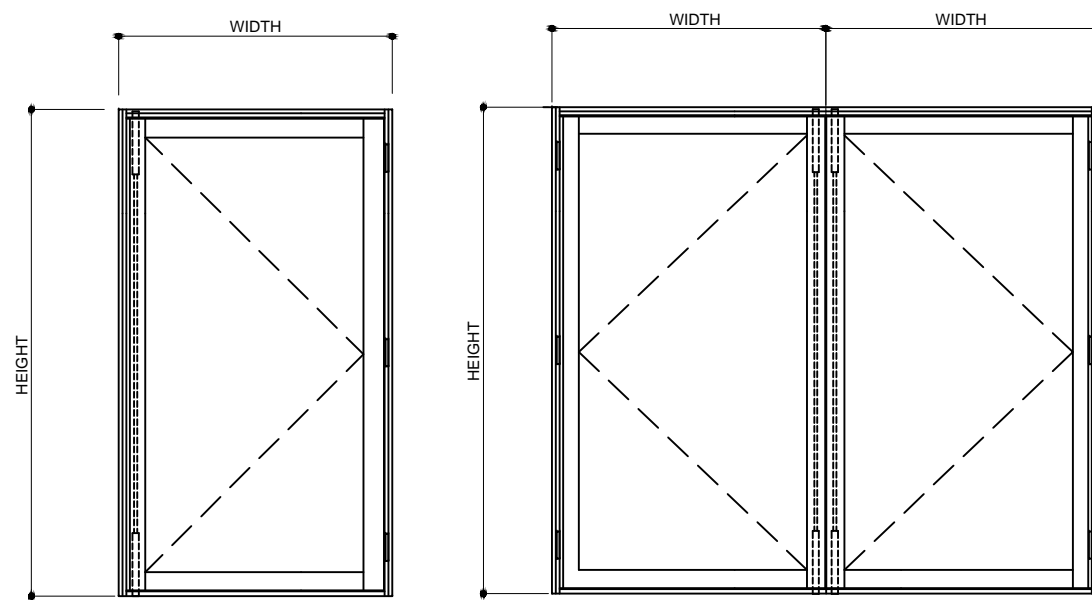
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DRAWING NO.	AD15-72
3 OF 11	

MAX. DESIGN LOAD FOR TWO PANEL BI-FOLDING WINDOW				
WINDOW PANEL		(X OR XX) CONFIG.		
WIDTH	HEIGHT	POSITIVE	NEGATIVE	
IN	IN	PSF	PSF	
30	60	110.0	120.0	
33		110.0	120.0	
36		110.0	120.0	
39		110.0	120.0	
42		110.0	120.0	
45		110.0	120.0	
48		110.0	120.0	
51		110.0	113.0	
54		107.0	107.0	
30	66	110.0	120.0	
33		110.0	120.0	
36		110.0	120.0	
39		110.0	120.0	
42		110.0	120.0	
45		110.0	120.0	
48		110.0	120.0	
51		110.0	113.0	
54		107.0	107.0	
30	72	110.0	120.0	
33		110.0	120.0	
36		110.0	120.0	
39		110.0	120.0	
42		110.0	120.0	
45		110.0	120.0	
48		110.0	120.0	
30		78	110.0	120.0
33			110.0	120.0
36	110.0		120.0	
39	110.0		120.0	
42	110.0		120.0	
45	110.0		120.0	
30	80		110.0	120.0
33			110.0	120.0
36			110.0	120.0
39		110.0	120.0	
42		110.0	120.0	
45		110.0	120.0	



GT-2

0.535" TOTAL GLASS THICKNESS  
INTERLAYER GLAZING DETAIL

NOTE:  
GLASS CAPACITY COMPLY WITH  
ASTM E1300 (3 SEC. GUSTS)

**HARDWARE:**

**LOCKS:**

A TWO POINT LOCK WITH HANDLE (BF-01-650) BY INTERLOCK, LOCATED AT BOTH ACTIVE AND INACTIVE SASH AT 36" FROM THE BOTTOM OF THE SASH.

1/2" SOLID S.S. FLUSH BOLTS WITH A THROW OF 1" AT TOP & BOTTOM.

THE 1"x2"x0.764" DEEP STRIKE PLATES INSTALLED WITH (2)#8x1/2" PHILIPS FLAT HEAD AND SET IN WITH ACRYL-R SEAM SEALER BY SCHNEE-MOREHEAD INC.

**HINGES:**

(3) 4 X 4 1/2" SS METAL HINGES INSTALLED ON EACH SASH @ 8 1/4" AND FROM TOP AND BOTTOM OF SASH AND ONE AT CENTER.

(4) 6MM X 15MM PHILLIPS FLAT HEAD MACHINE SCREWS ON HINGE STILES OF THE SASH AND BI-FOLDING FRAME.

Professional Engineer Seal for YIPING WANG, P.E., Florida Registration #55983, C.A.N. 28677. The seal includes the text 'STATE OF FLORIDA PROFESSIONAL ENGINEER' and a date stamp 'November 2nd, 2015'.

NO	DATE	DESCRIPTION
1	8.20.14	REF'S COMMENTS
2	10.30.15	REVISION 2

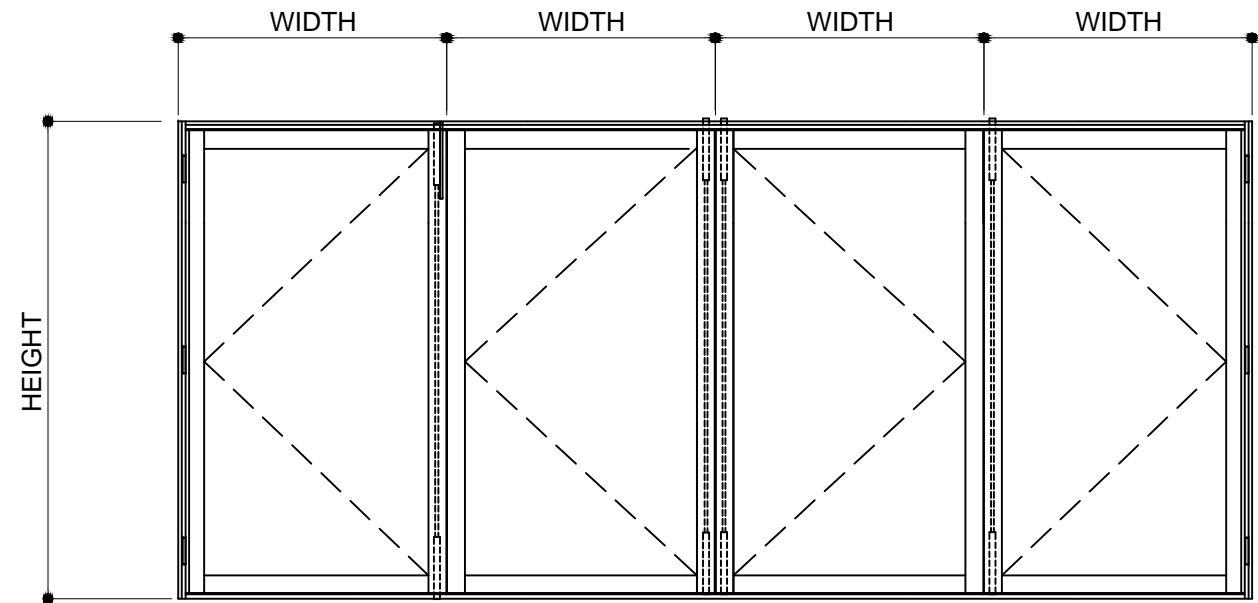
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DRAWING NO.	AD15-72
4 OF 11	



MAX. DESIGN LOAD FOR FOUR PANEL BI-FOLDING WINDOW				
WINDOW PANEL		MAX. DESIGN LOAD		
WIDTH	HEIGHT	POSITIVE	NEGATIVE	
IN	IN	PSF	PSF	
30	60	90.0	90.0	
33		90.0	90.0	
36		90.0	90.0	
39		90.0	90.0	
42		90.0	90.0	
45		90.0	90.0	
48	66	90.0	90.0	
51		90.0	90.0	
54		90.0	90.0	
30		72	90.0	90.0
33			90.0	90.0
36			90.0	90.0
39	90.0		90.0	
42	90.0		90.0	
45	90.0		90.0	
48	78	90.0	90.0	
51		90.0	90.0	
54		90.0	90.0	
30		80	90.0	90.0
33			90.0	90.0
36			90.0	90.0
39	90.0		90.0	
42	90.0		90.0	
45	90.0		90.0	



**SEALANT: DOW CORNING 790**

PERIMETER OF FRAME ON THE INTERIOR, FRAME CORNERS, GLAZING BEAD SEAMS AT EACH END, FIXED MEETING RAIL AT EACH END, INSTALLATION FASTENERS AT FRAME SILL & EACH END OF FRAME SILL TRACK.

**HARDWARE:**

**LOCKS:**

A TWO POINT LOCK WITH HANDLE (BF-01-650) BY INTERLOCK, LOCATED ON BOTH SASH 2 & 3 SASH AT 36" FROM THE BOTTOM OF THE SASH. THIS LOCK ACTIVE BOTH THE TOP & BOTTOM 1/2" SOLID S.S. FLUSH BOLTS WITH A THROW OF 1".

1/2" x 3/4" LG FLUSH BOLTS ARE ALSO LOCATED ON THE LOCK STILE OF SASH 1 & 3 AT 14 3/4" FROM TOP & BOTTOM OF THE SASH.

THE 1"x2"x0.764" DEEP STRIKE PLATES INSTALLED WITH (2)#8x1/2" PHILLIPS FLAT HEAD AND SET IN WITH ACRYL-R SEAM SEALER BY SCHNEE-MOREHEAD INC.

**HINGES:**

(3) 4 X 4 1/2" SS METAL HINGES INSTALLED ON EACH SASH @ 8 1/4" AND FROM TOP AND BOTTOM OF SASH AND ONE AT CENTER.

(4) 6MM X 15MM PHILLIPS FLAT HEAD MACHINE SCREWS ON HINGE STILES OF THE SASH AND BI-FOLDING FRAME.

**TYPICAL ANCHORS:** (SEE ELEV. FOR SPACING)

TYPE 'A' - **5/16" DIA. 'ELCO' ULTRACON** (Fu = 177 KSI, Fy = 155 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURE 1-1/2" MIN. PENETRATION INTO WOOD

TYPE 'B' - THRU 1BY BUCKS INTO CONC. OR MASONRY 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'C' - **5/16" DIA. 'ELCO' ULTRACON** (Fu = 177 KSI, Fy = 155 KSI) 1-3/8" MIN. EMBED DIRECTLY INTO CONCRETE

TYPE 'D' - **#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)** INTO STEEL (Fu = 74 KSI, Fy = 57 KSI) STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

INTO MIAMI-DADE COUNTY OR FLORIDA APPROVED ALUMINUM MULLIONS 1/8" THK. MIN. (6063-T5 MIN.)

INTO APPROVED CGS WW3000 WINDOW WALL MULLION

**SUBSTRATES:**

**MASONRY**

ASTM C90 GROUT FILLED CONCRETE BLOCK HOLLOW BLOCK fm'=2000 PSI min.

**CONCRETE**

f'c= 3,000 PSI MIN.

**ANCHOR EDGE DISTANCES**

- INTO CONCRETE = 2-3/16" MIN.
- INTO MASONRY = 3-1/8" MIN.
- INTO WOOD STRUCTURE = 1-1/2" MIN.
- INTO METAL STRUCTURE = 1" MIN.

WOOD BUCKS BY OTHERS MUST BE SOUTHERN PINE, G = 0.55 AND MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

YIPING WANG, P.E.  
 FLORIDA REGISTRATION  
 PE #18395.2  
 C.A.N. 2867

November 2nd, 2015

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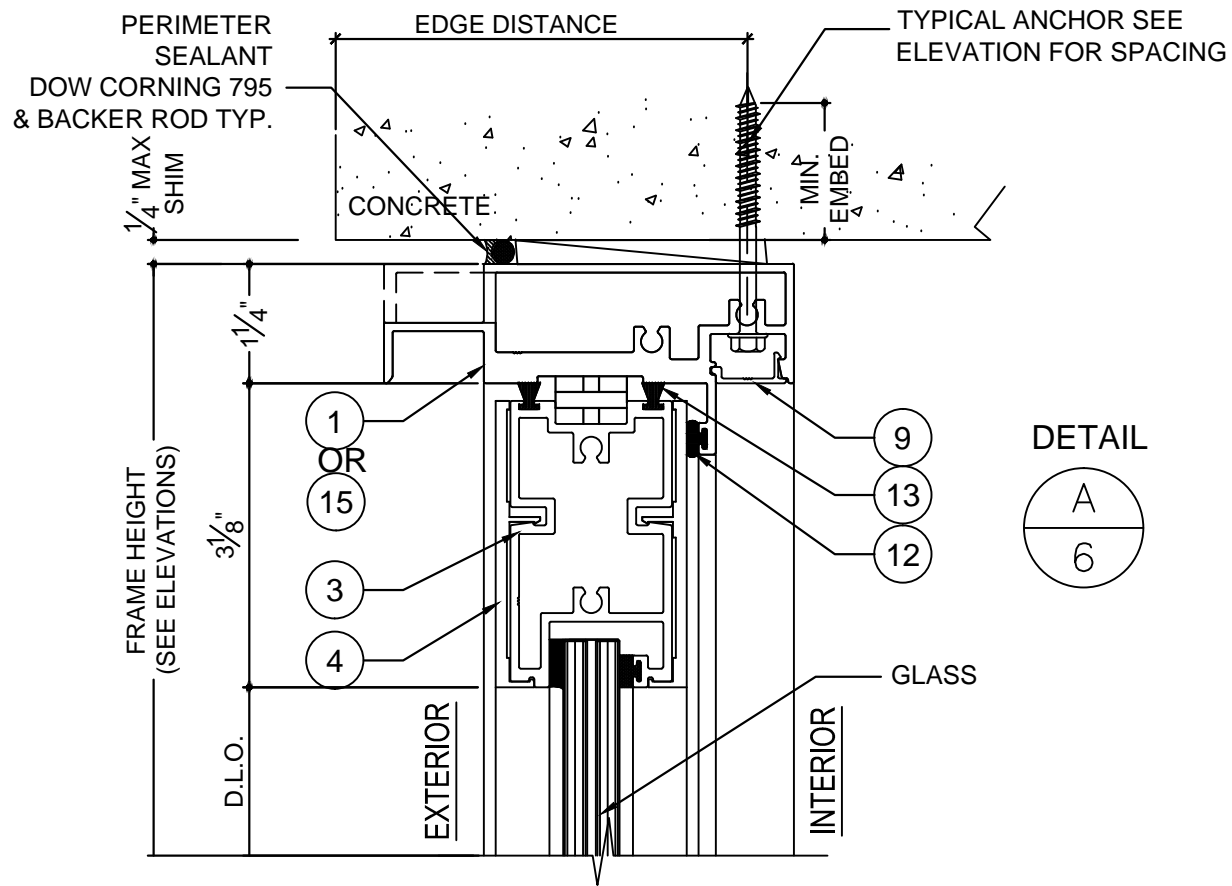
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CONTINENTAL GLASS SYSTEMS INC.

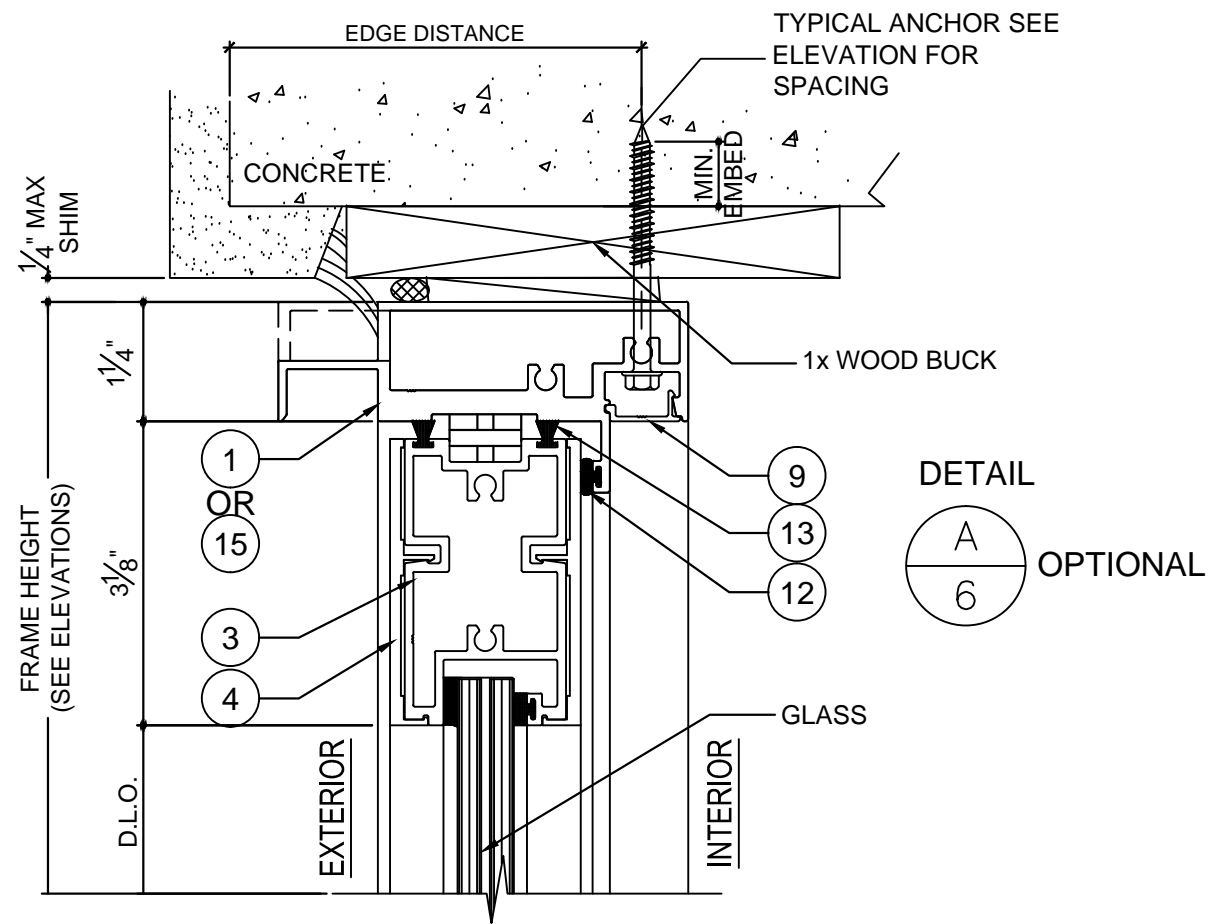
325 WEST 74TH PLACE    HIALEAH, FL 33014

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

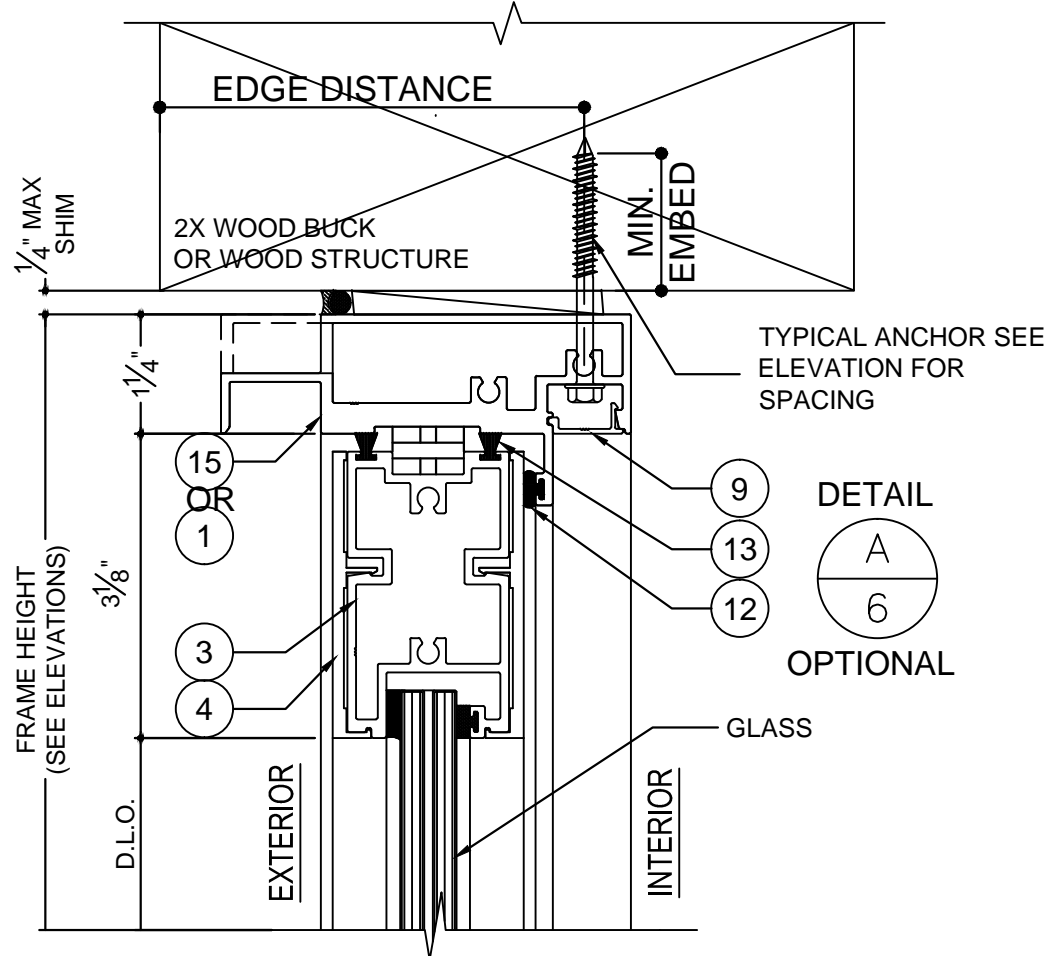
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5 OF 11	



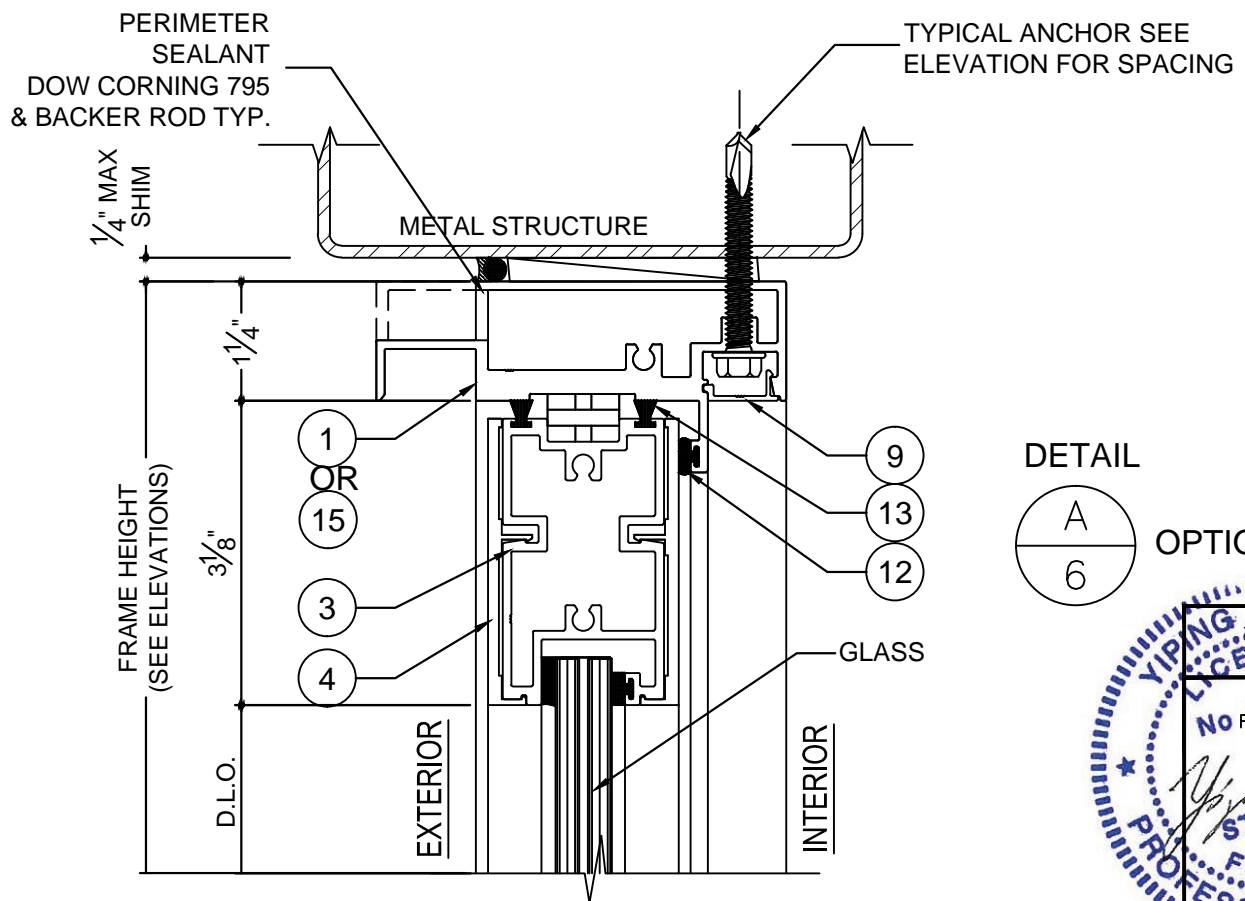
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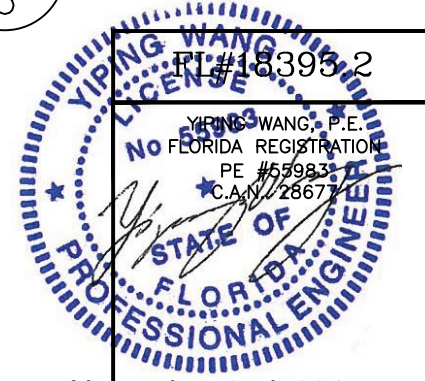
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November 2nd, 2015

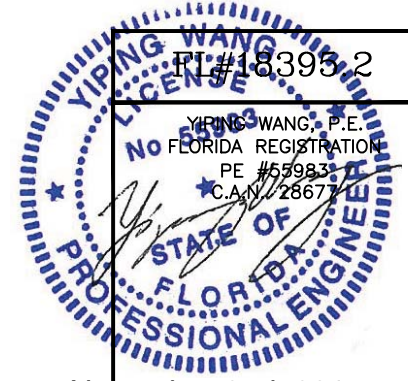
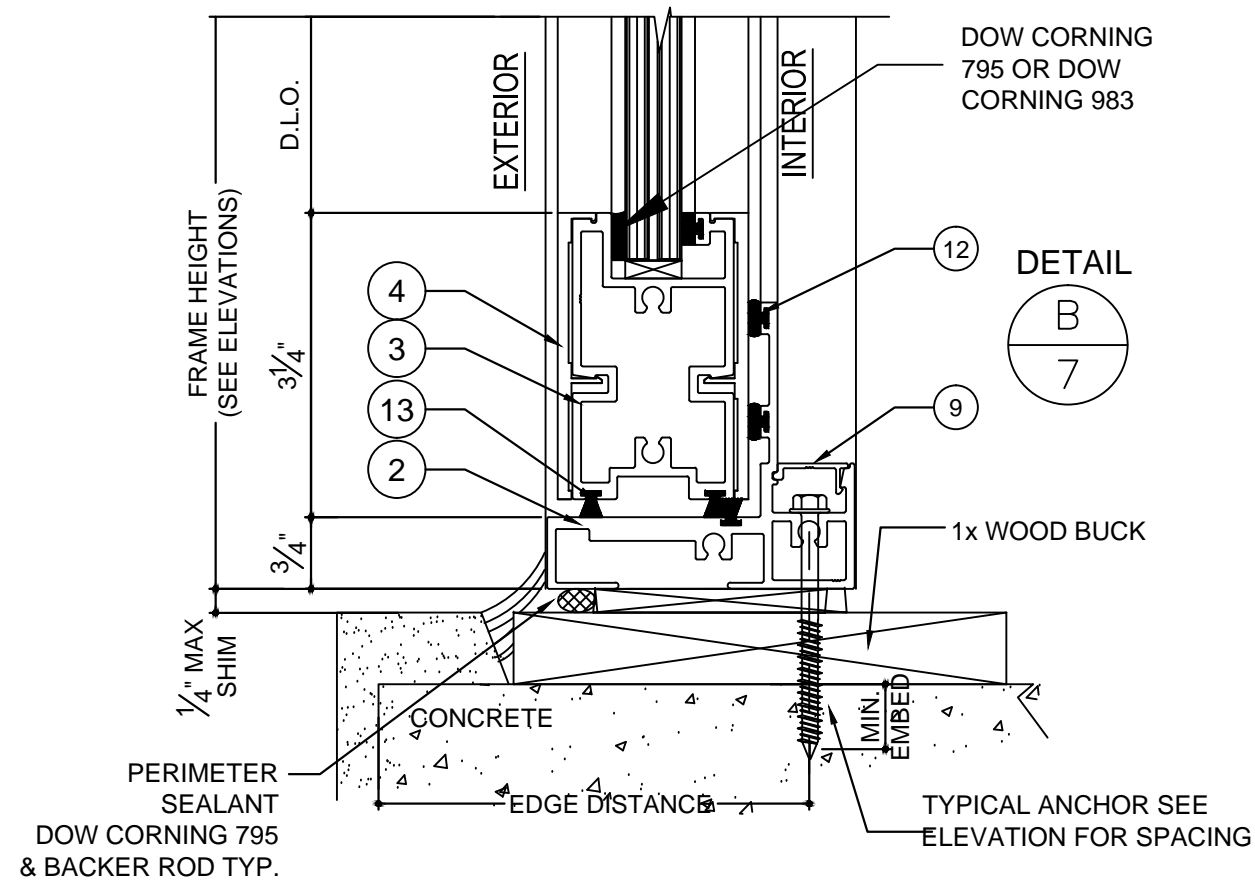
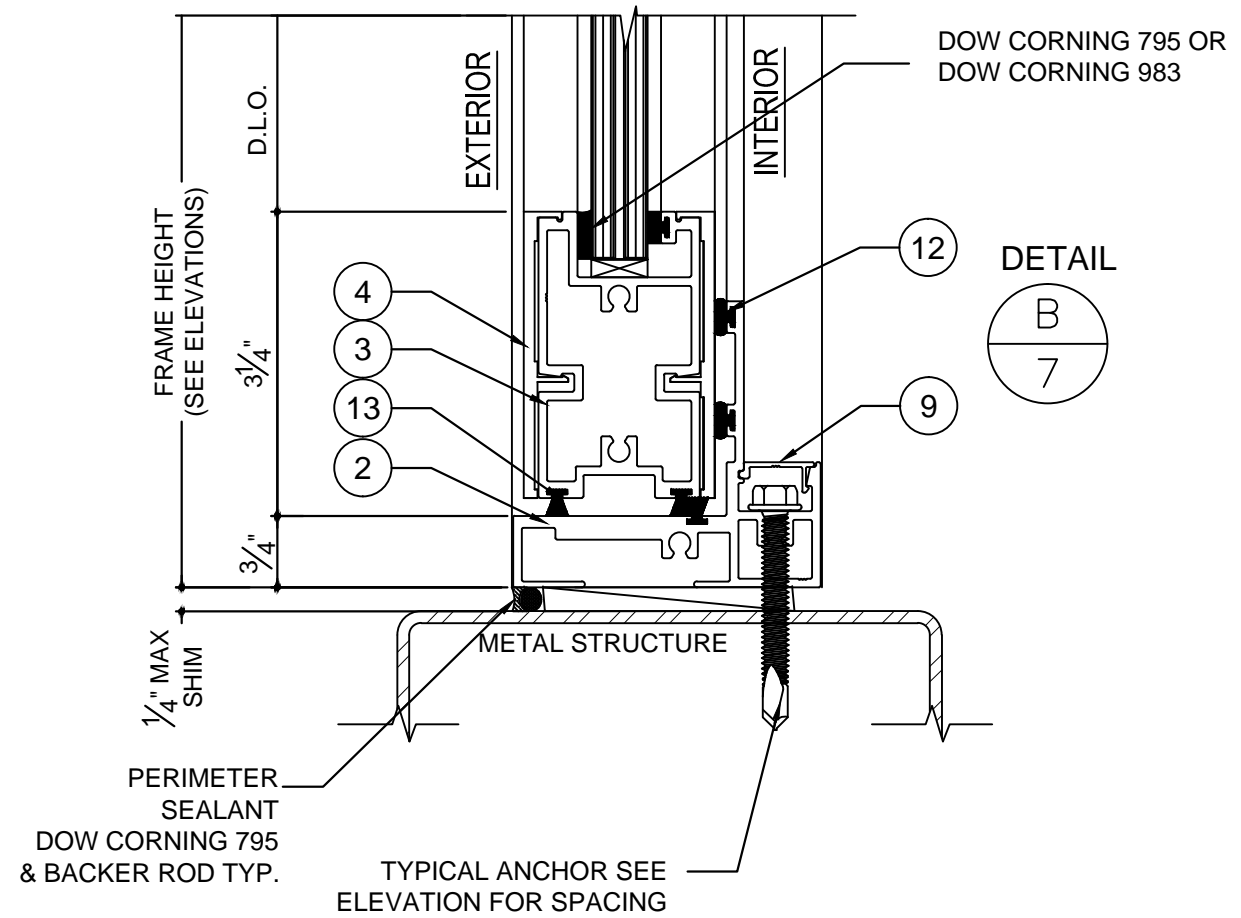
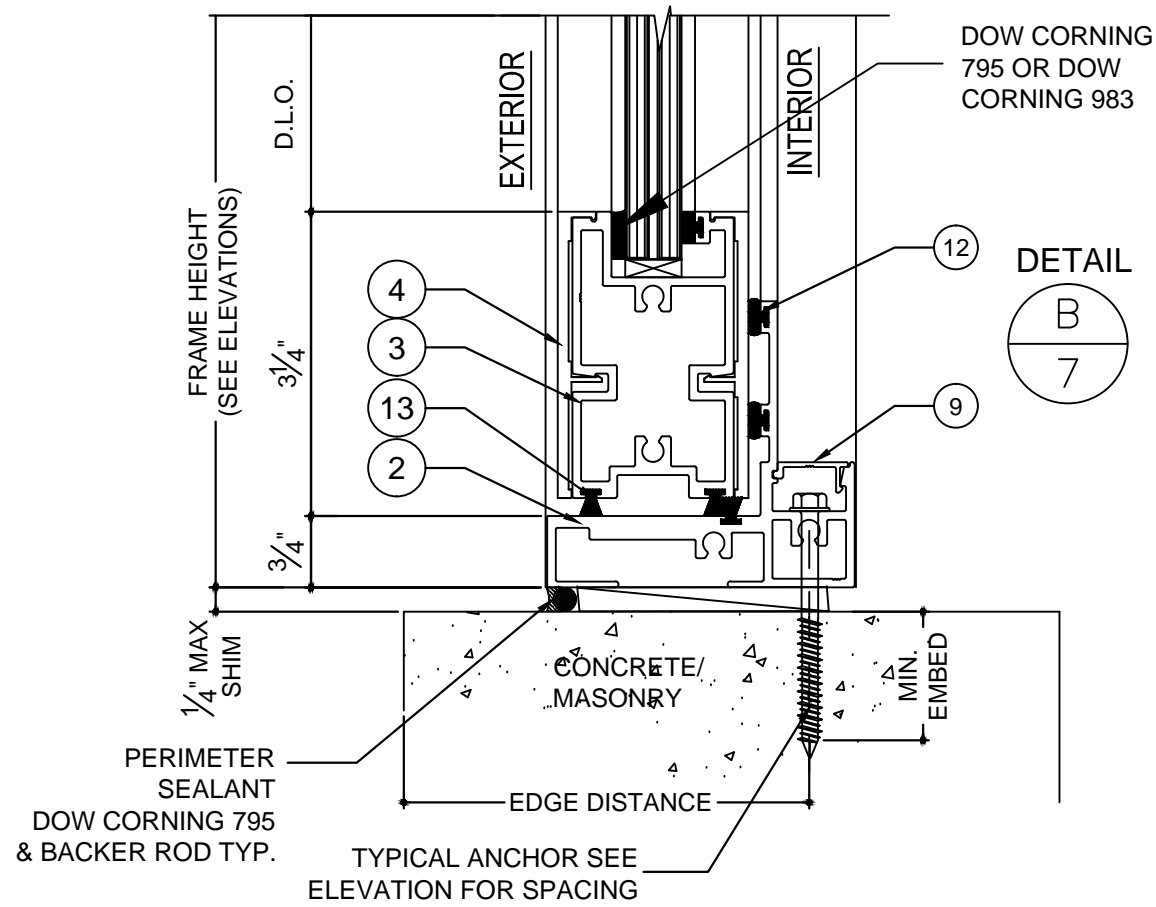
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6 OF 11



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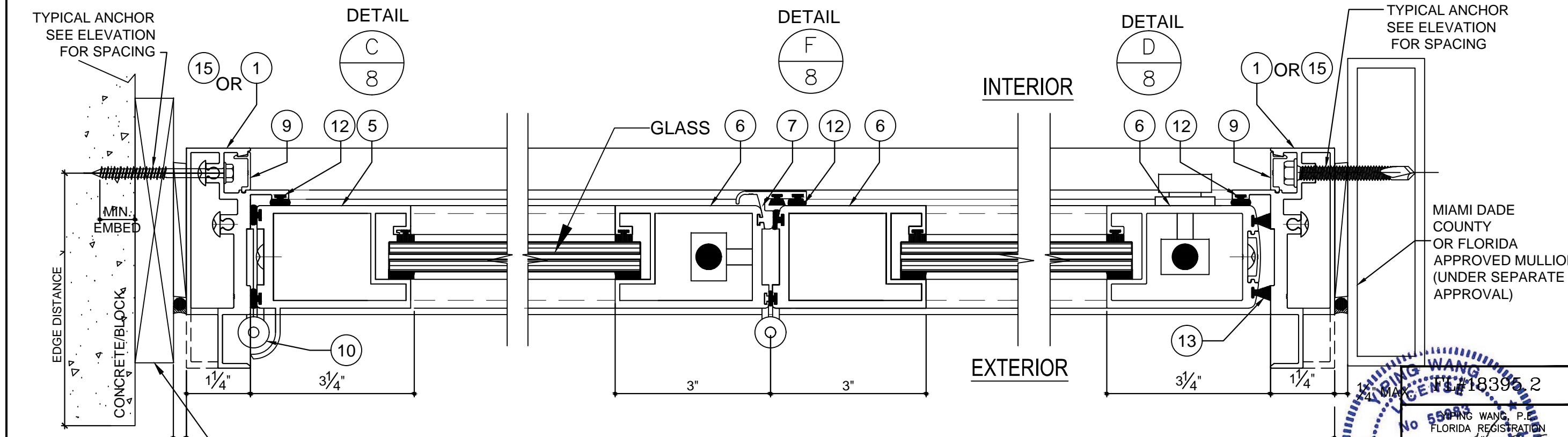
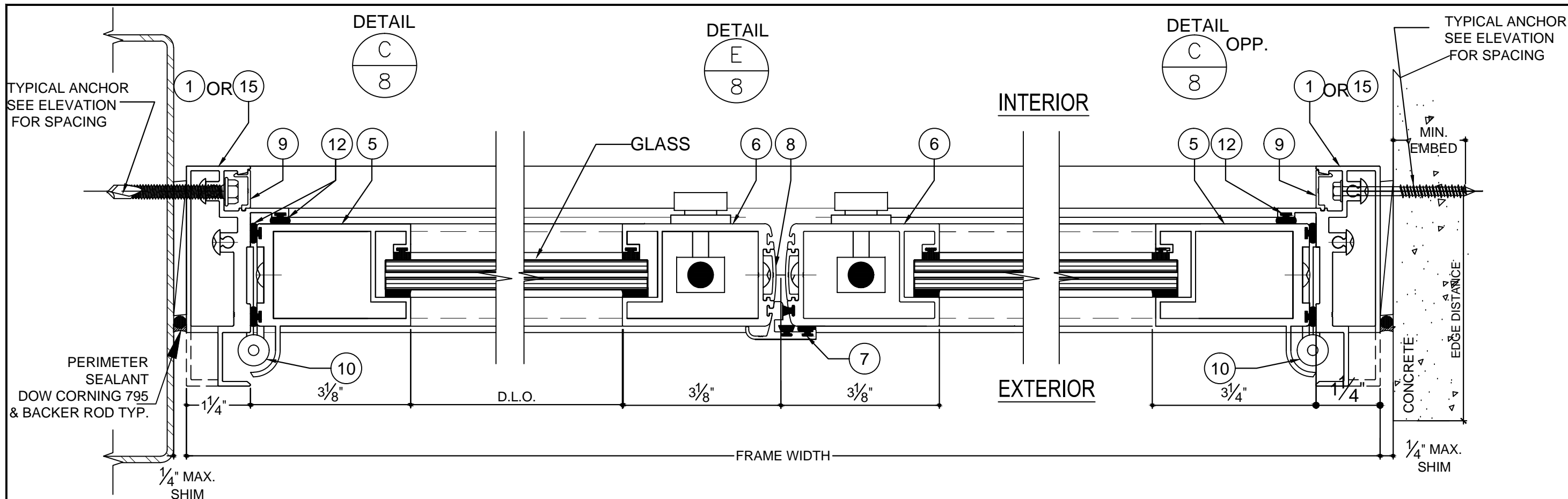
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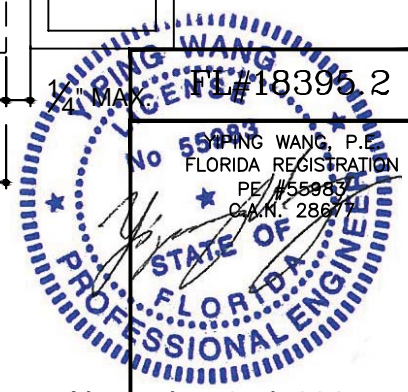
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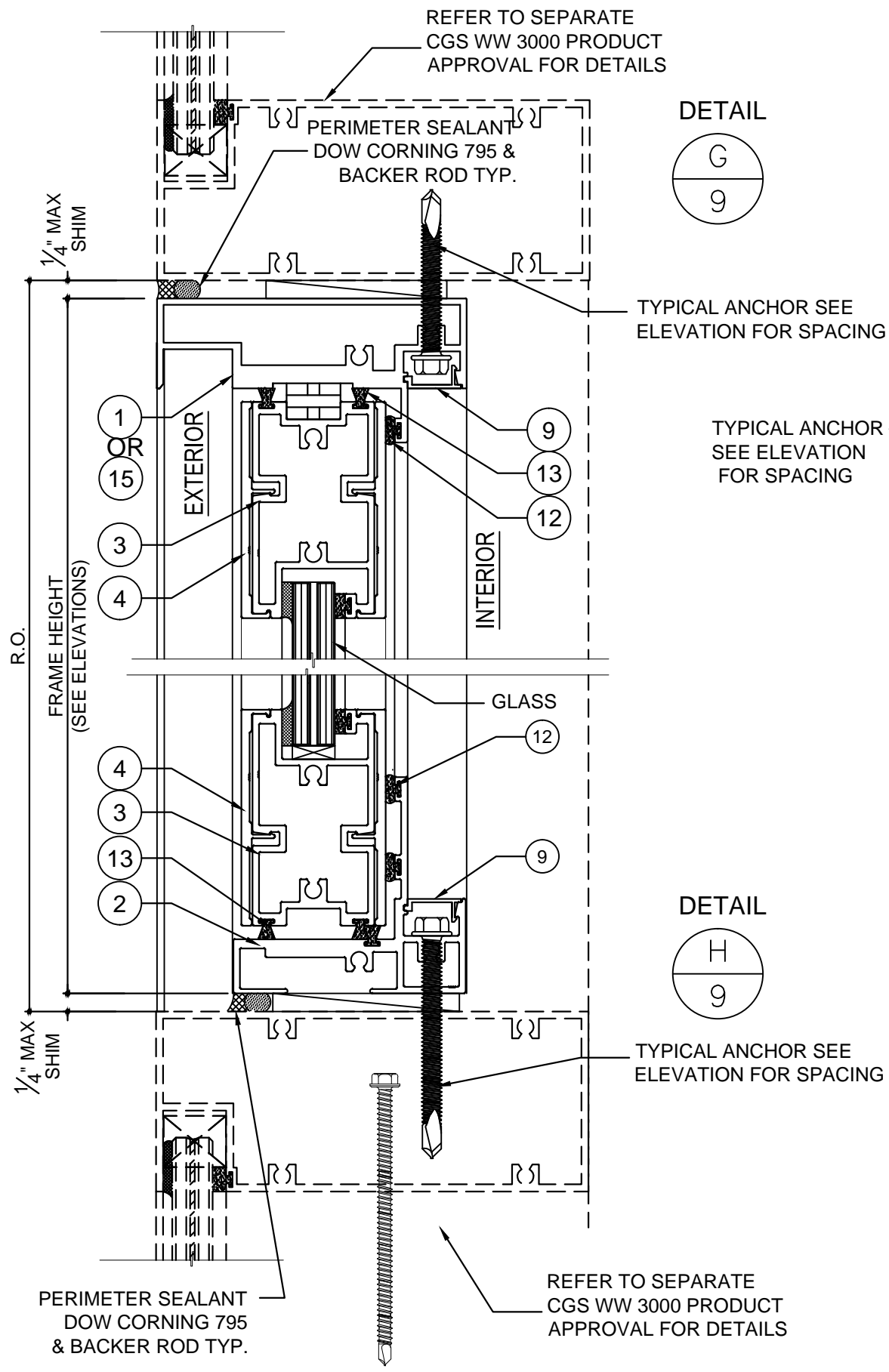


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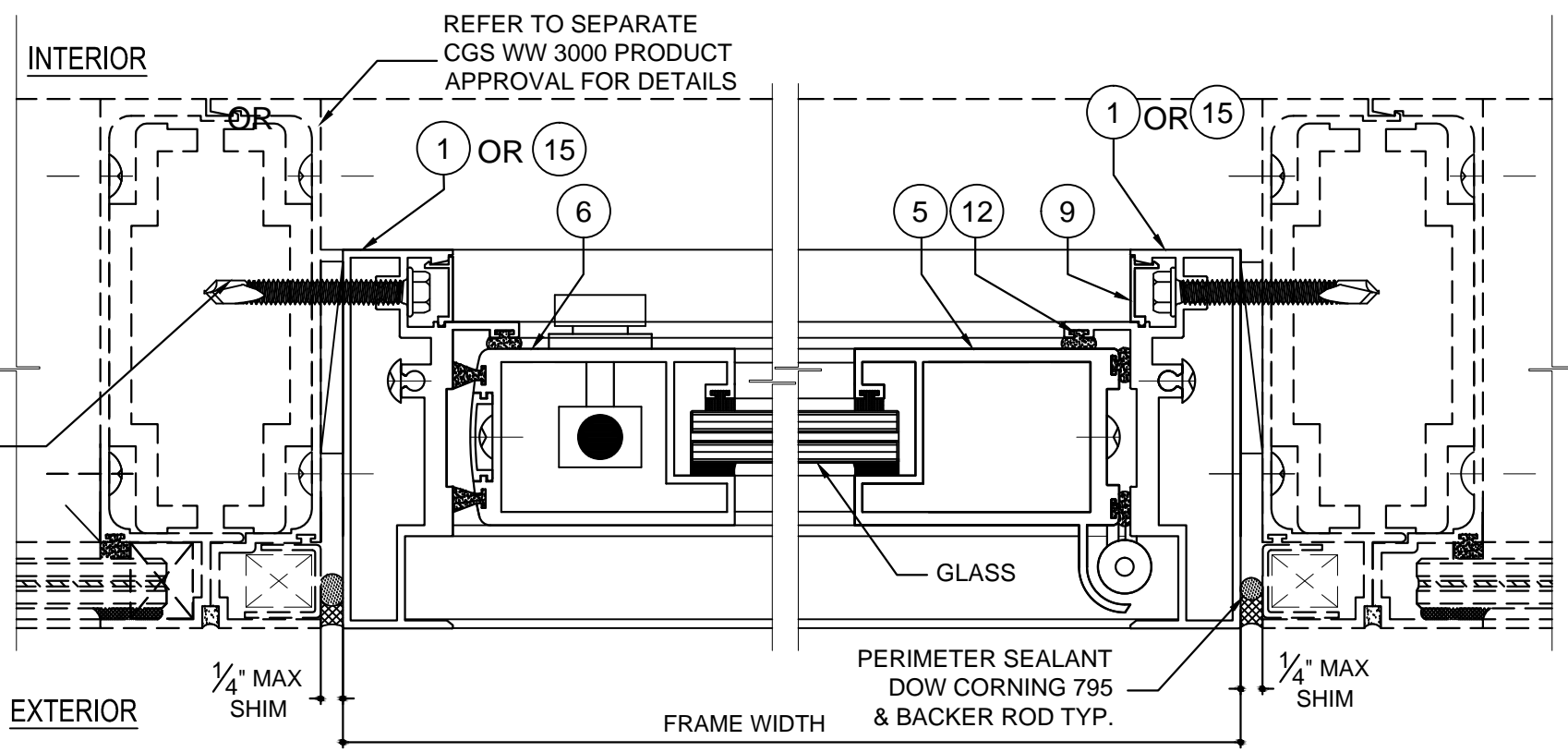
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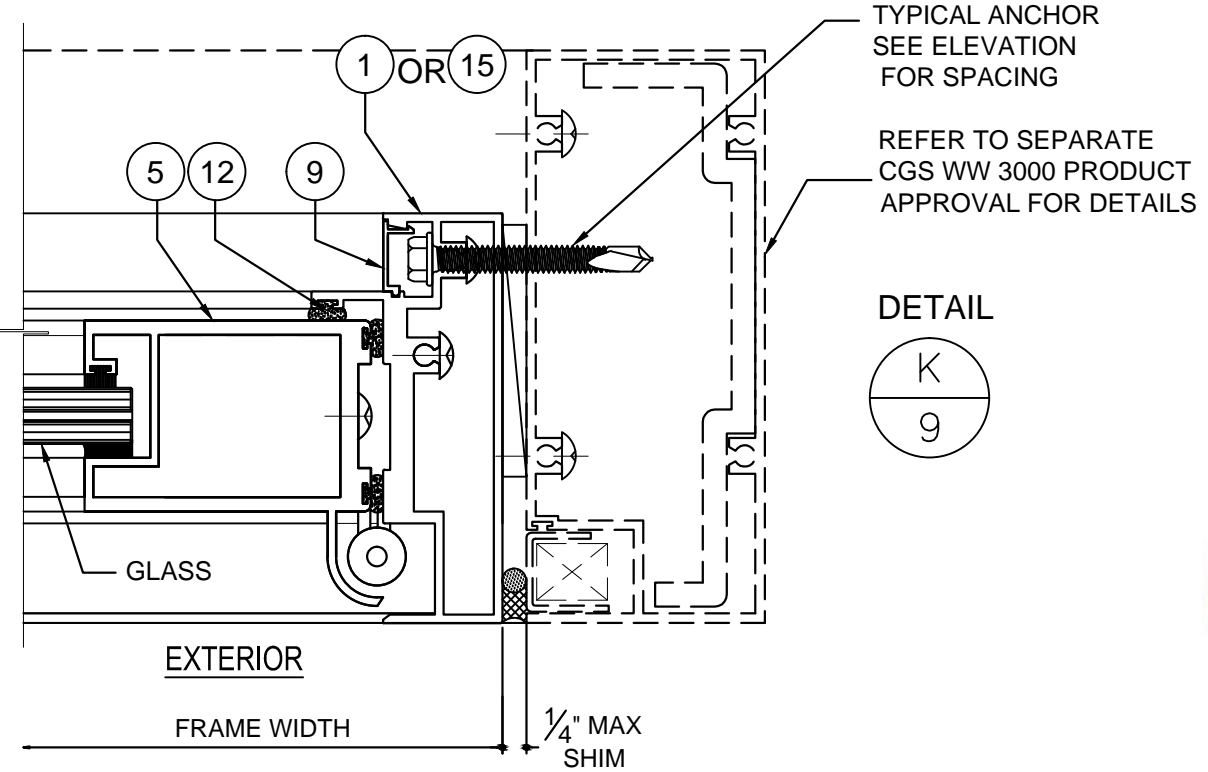
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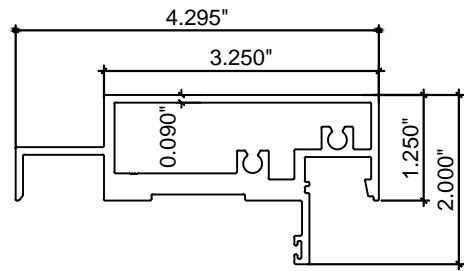
YIPING WANG  
Professional Engineer  
FL #18395.2  
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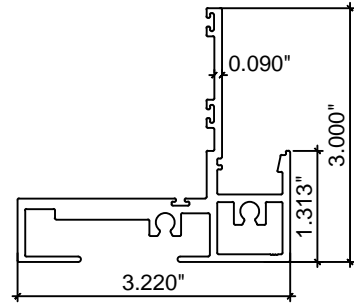
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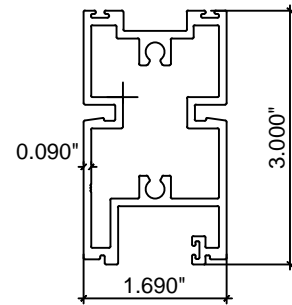
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DRAWING NO.	AD15-72
9 OF 11	



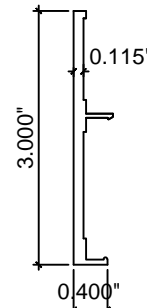
1 HEADER AND JAMB  
7200-02 6005-T5



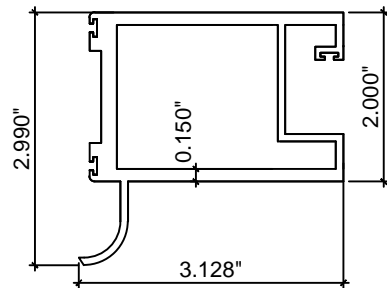
2 SILL  
7200-01 6005-T5



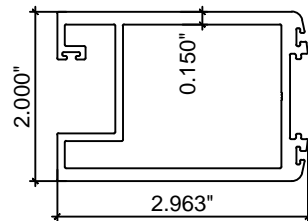
3 TOP/BOTTOM RAIL  
7200-03 6005-T5



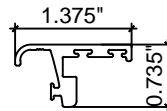
4 PANEL COVER  
7200-06 6063-T6



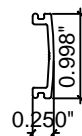
5 HINGE STILE  
7200-04 6005-T5



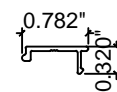
6 LOCK STILE  
7200-05 6005-T5



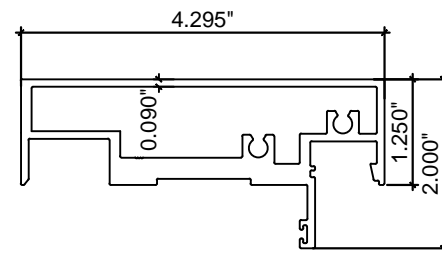
7 ASTRAGAL  
7200-08 6063-T6



8 SCREW COVER  
7200-09 6063-T6



9 HEAD & JAMB COVER  
7200-07



15 HEADER AND JAMB  
7200-02A 6005-T5

### BILL OF MATERIALS

ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	7200-02	HEADER,AND JAMB	ALUM. 6005-T5	SAPA
2	7200-01	SILL	ALUM. 6005-T5	SAPA
3	7200-03	TOP/BOTTOM RAIL	ALUM. 6005-T5	SAPA
4	7200-06	PANEL COVER	ALUM. 6063-T6	SAPA
5	7200-04	HINGE STILE	ALUM. 6005-T5	SAPA
6	7200-05	LOCK STILE	ALUM. 6005-T5	SAPA
7	7200-08	ASTRAGAL	ALUM. 6063-T6	SAPA
8	7200-09	SCREW COVER	ALUM. 6063-T6	SAPA
9	7200-07	HEAD & JAMB COVER	ALUM. 6063-T6	Z
10	4 x 4 1/2"	STAINLESS STEEL HINGE	STAINLESS STEEL	WITH (4) 1/4" F.H. MACHINE SCREW
11	BF-01-6501	TWO POINT LOCK	METAL	INTERLOCK
12	FLUSH BOLTS	1/2" SOLID STAINLESS STEEL FLUSH BOLTS WITH A THROW OF 1	STAINLESS STEEL	
13	-	PILE WEATHERSTRIP GASKET	YARN	TREMCO INC
14	-	SETTING BLOCK	EPDM	TREMCO INC - DUROMETER 85±5, SHORE 'A'
15	7200-11	HEADER AND JAMB	ALUM. 6005-T5	SAPA
16	STEEL STRIKE PLATE	1" x 2" x 0.764" STEEL STRIKE PLATE	STEEL	

REVISIONS	
NO./DATE	DESCRIPTION
1 / 8.20.14	REV'S COMMENTS
2 / 10.30.15	REVISION 2

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
8501 SW 124 Ave Ste. 205A P: 305.271.0117  
MIAMI, FL 33183 F: 205.279.6818  
www.MCYEngineering.com MCY.Engineering@Att.net

SERIES 7200 ALUMINUM BI-FOLDING WINDOW - SMI  
**CONTINENTAL GLASS SYSTEMS INC.**  
325 WEST 74TH PLACE HIALEAH, FL. 33014  
TEL. (305) 231-1101 FAX. (305) 231-1103

DATE	06/02/14
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	13-003

DRAWING NO.  
**AD15-72**  
10 OF 11

YIPING WANG  
FL # 18395.2  
YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE # 55993  
C.A.N. 728677  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
November 2nd, 2015

NO.	DATE	DESCRIPTION
1	8.20.14	REV'S COMMENTS
2	10.30.15	REVISION 2

**MCY ENGINEERING, INC.**  
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DATE	06/02/14
SCALE	AS SHOWN
DRAWN	T.G.
PROJECT	13-003

DRAWING NO.  
**AD15-72**

(2) #14 x 1" PHILLIPS  
 PAN HEAD SHEET METAL SCREWS  
 AT HINGE STILE

(2) #14 x 1" PHILLIPS  
 PAN HEAD SHEET METAL  
 SCREWS.

(2) #14 x 1" PHILLIPS  
 PAN HEAD SHEET METAL SCREWS  
 AT HINGE STILE

(2) #14 x 2" PHILLIPS  
 PAN HEAD SHEET METAL SCREWS.

(2) #14 x 2" PHILLIPS  
 PAN HEAD SHEET METAL SCREWS.

(2) #14 x 1" PHILLIPS  
 PAN HEAD SHEET METAL SCREWS.

**DETAIL A**  
 WINDOW FRAME  
 (TOP)

**DETAIL B**  
 WINDOW FRAME  
 (BOTTOM)

**DETAIL C**  
 WINDOW SASH

YIPING WANG  
 LICENSE NO. 18395  
 YIPING WANG, P.E.  
 FLORIDA REGISTRATION  
 PE # 55983  
 C.A.M. 38677  
 PROFESSIONAL ENGINEER  
 STATE OF FLORIDA

November 2nd, 2015