

CONTINENTAL GLASS SYSTEMS, INC.
SERIES 7700 FIX WINDOW SYSTEMS
LARGE MISSILE IMPACT (L.M.I.)
IMPACT LEVEL "D"

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 6TH EDITION / 7TH EDITION OF FLORIDA BUILDING CODE (2017 / 2020) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- FIX WINDOW RATED FOR LARGE MISSILE IMPACT, SYSTEM TESTED FOR IMPACT LEVEL "D".
- 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 6TH EDITION / 7TH EDITION OF FLORIDA BUILDING CODE (2017 / 2020) SECTION AS APPLICABLE.
- METAL STRUCTURAL AND/ OR WOOD STRUCTURAL 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 7-10 / 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.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-10 / ASCE 7-16 STANDARD.
- STEP 2: SEE SHEET E1 & E2 FOR APPROVED PROJECTED OUT WINDOW SIZE AND DESIGN LOAD.
- STEP 3: SEE SHEETS D1 & D2 & D3 FOR APPROVED ANCHOR TYPE USED TO COVER APPROVED CONDITION.
- STEP 4: JOB CONDITION TO NOT EXCEED APPROVED LOAD AS ABOVE.

TYPICAL ANCHORS SEE ELEV. FOR SPACING

TYPE 'A'- 1/4" DIA. ULTRACON BY 'ELCO' ($F_u=177$ KSI, $F_y=155$ KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD
THRU 1 BY WOOD BUCKS INTO CONCRETE OR MASONRY

OR DIRECTLY INTO CONCRETE
1-3/4" MIN. EMBED INTO CONCRETE

OR DIRECTLY INTO MASONRY (JAMB ONLY)
1-1/4" MIN. EMBED INTO HOLLOW BLOCK
1-3/4" MIN. EMBED INTO GROUT FILLED BLOCK

TYPE 'B'- #14 SMS OR TEKS-SELF DRILLING SCREWS (GRADE 2 CRS)
INTO FLORIDA APPROVED MULLIONS (1/8" THK. MIN.)
INTO METAL STRUCTURES
STEEL : 1/8" THK. MIN. ($F_y = 36$ KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM
TO BE PLATED OR PAINTED)

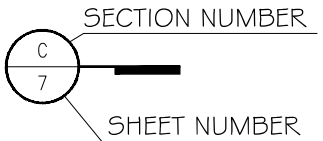
TYPICAL EDGE DISTANCE

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

CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.
C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.
WOOD SG= 0.55

ABBREVIATIONS AND SYMBOLS

D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER



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 #32156.1



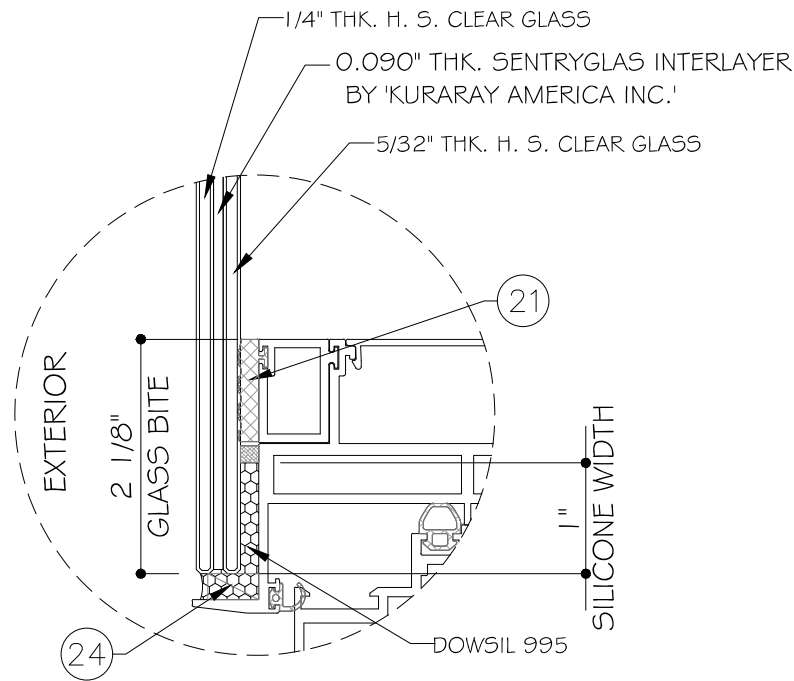
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301 P: 786.360.2786
MIRAMAR, FL 33027 F: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

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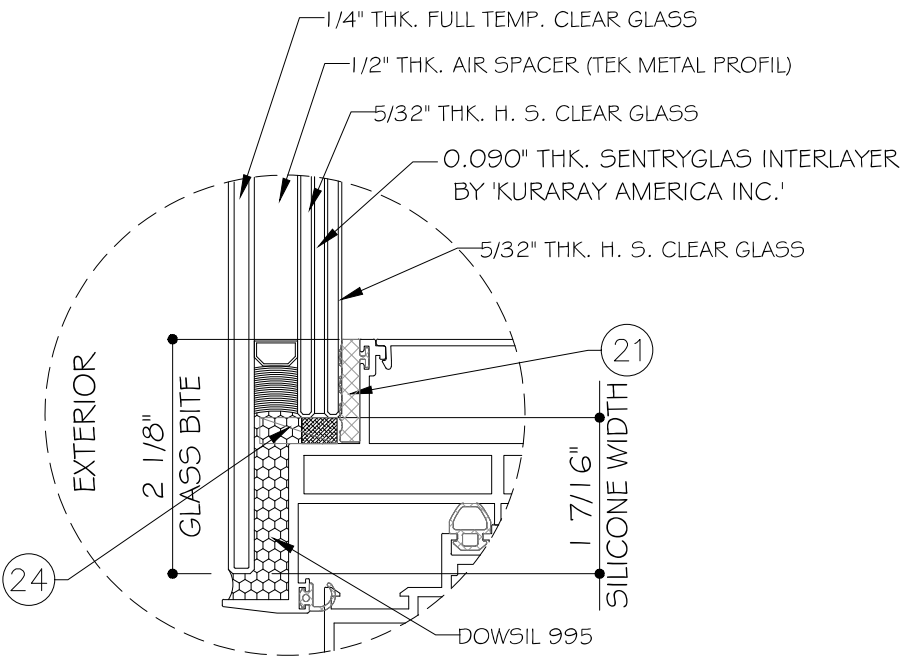
SERIES 7700 FIX WINDOW SYSTEMS (L.M.I.)
CONTINENTAL GLASS SYSTEMS INC.
325 WEST 74TH PLACE HIALEAH, FL 33014
TEL. (305) 231-1101 FAX. (305) 231-1103

Rev.	1	10/19/2020	LM.							Drawn By		Date		Rev. No.	
Drawn Date										05/28/2020		Scale			
DRAWING NO.										AD20-12		COVER		Sheet No.	
												01 OF 13			

GLASS-STRUCTURAL GLAZING



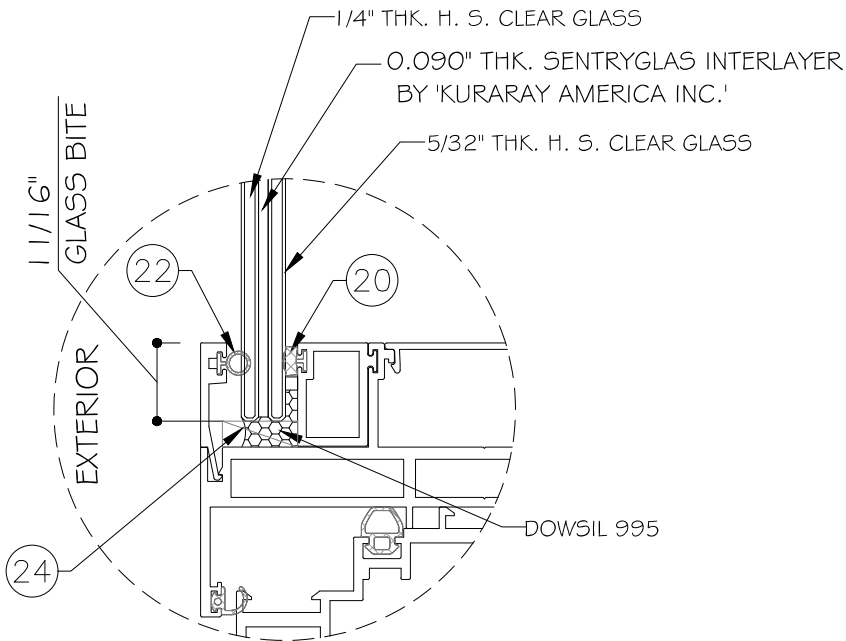
GLASS TYPE 'G1'
1/2" OVERALL LAMINATED GLASS



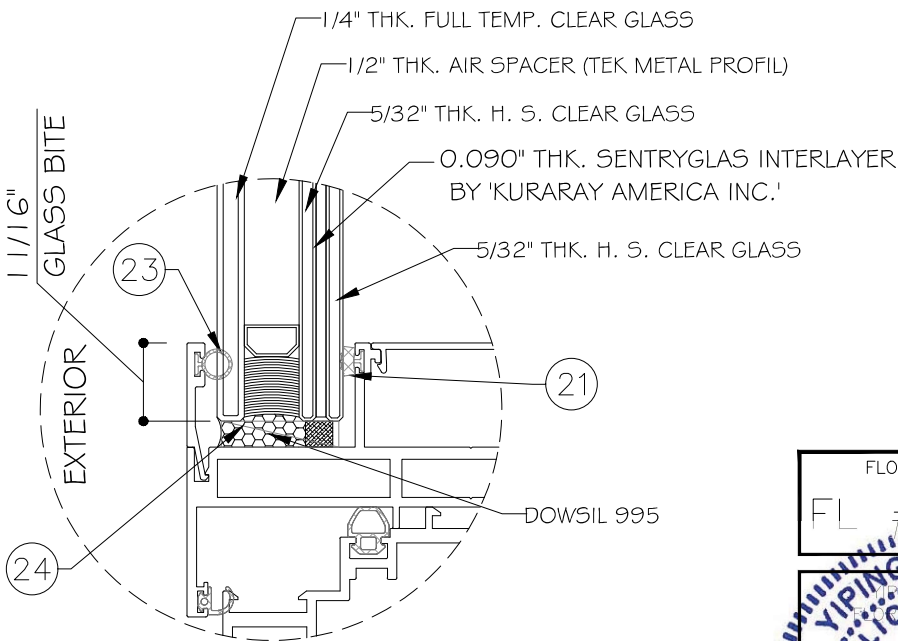
GLASS TYPE 'G2'(RABBIT GLASS OPTION)
1-5/32" OVERALL INSULATED LAMINATED RABBIT GLASS

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

GLASS-POCKET GLAZED



GLASS TYPE 'G1'
1/2" OVERALL LAMINATED GLASS



GLASS TYPE 'G2'
1-5/32" OVERALL INSULATED LAMINATED GLASS

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

FLORIDA APPROVAL:
FL #32156.1

YIPING WANG
P.E.
REGISTRATION
FL #55983
G.A.#26677

STATE OF FLORIDA
PROFESSIONAL ENGINEER

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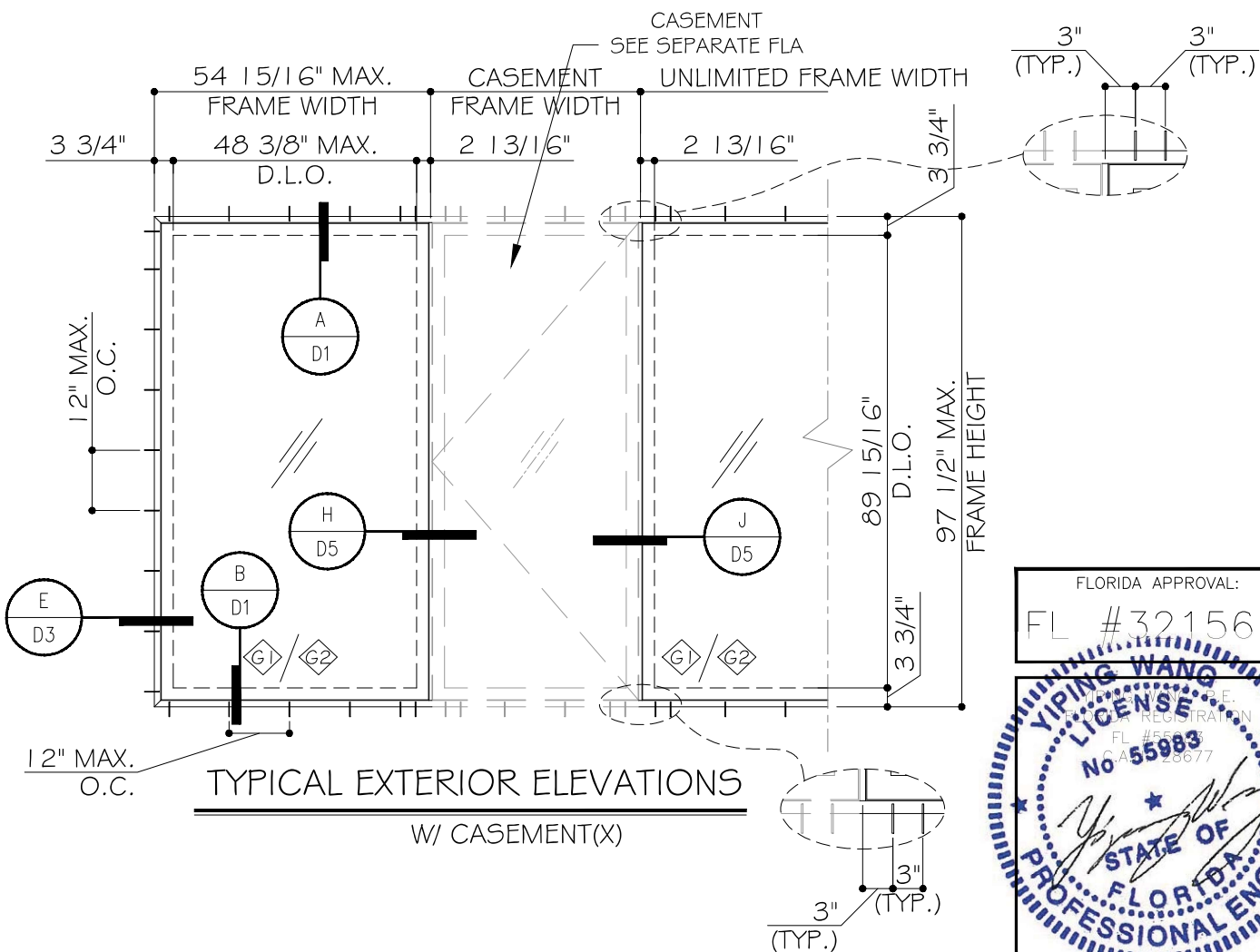
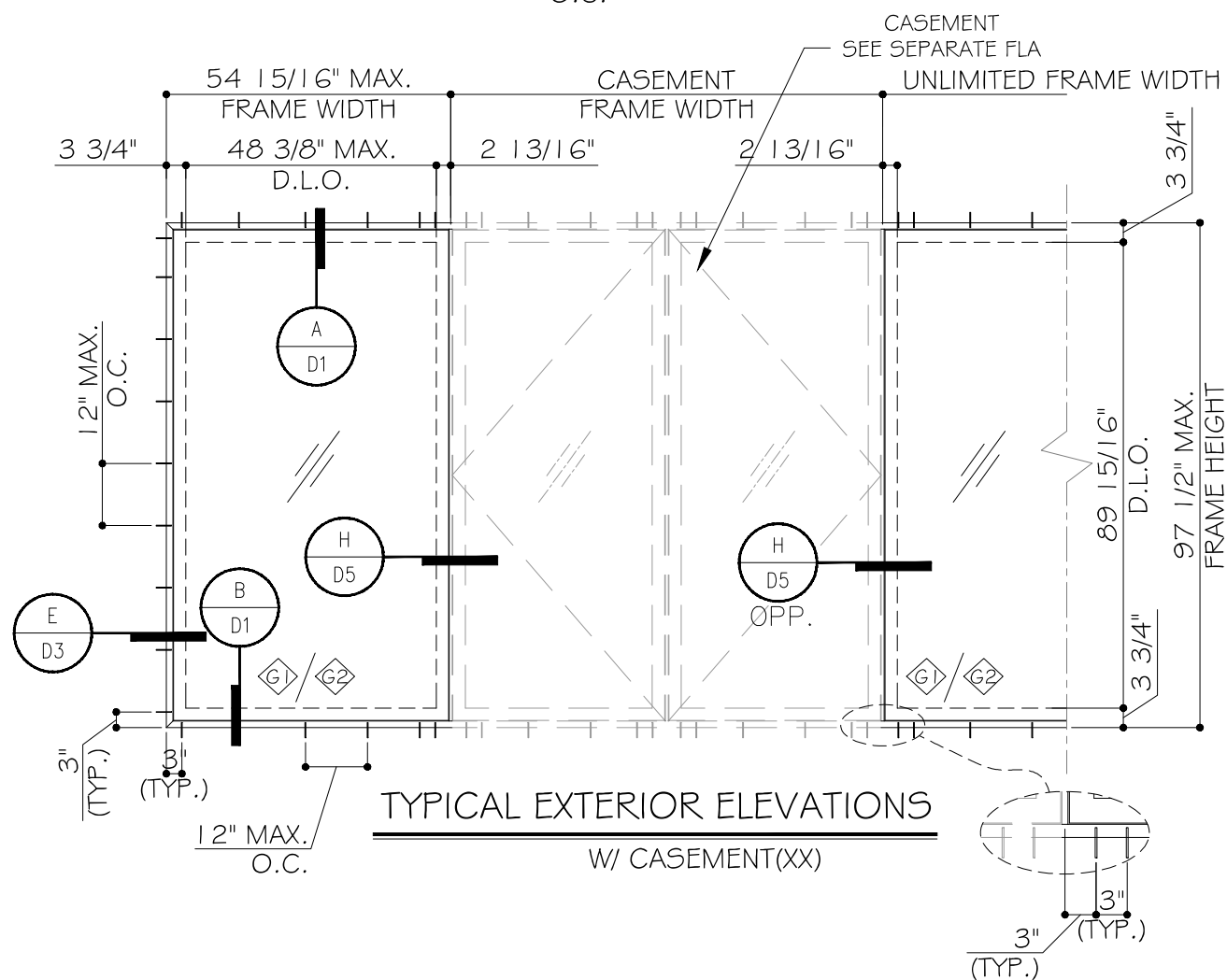
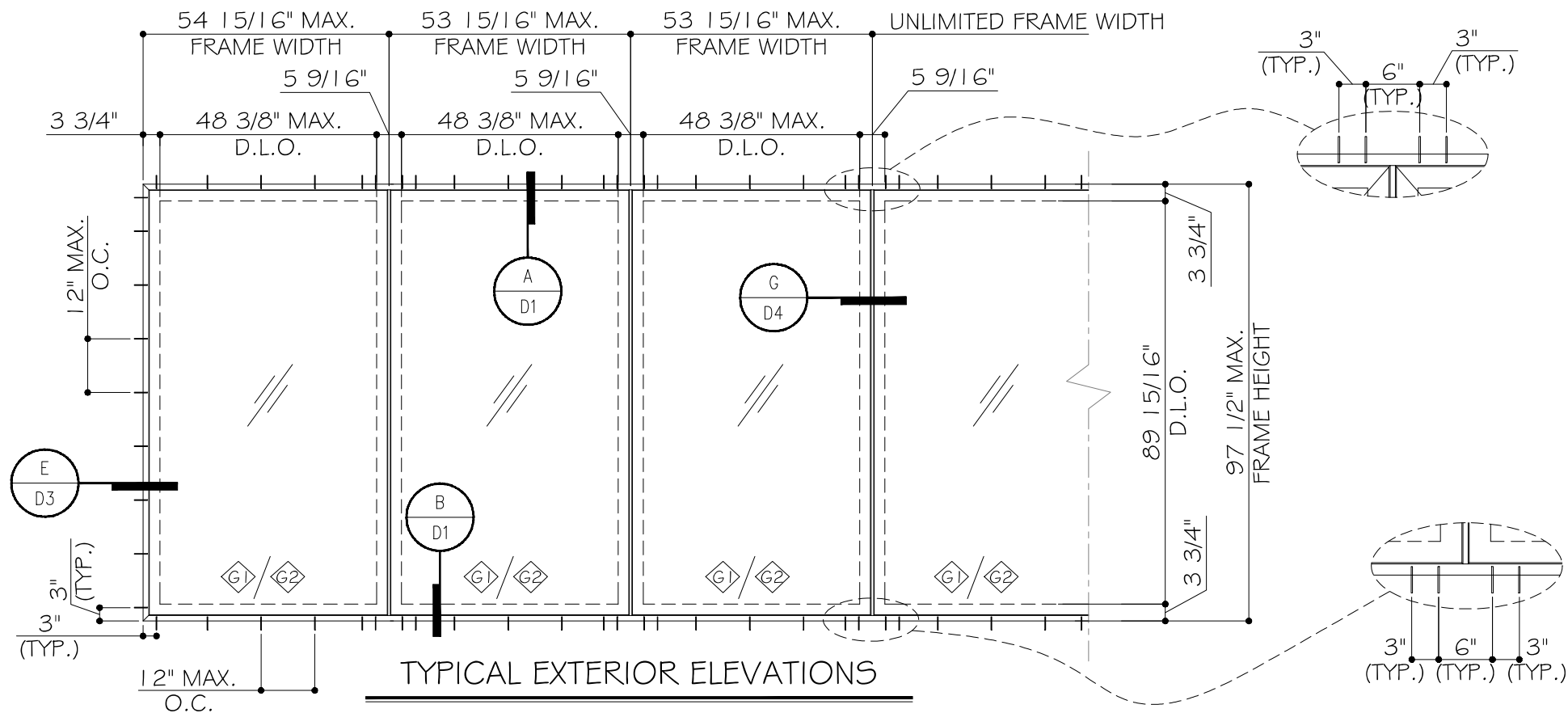
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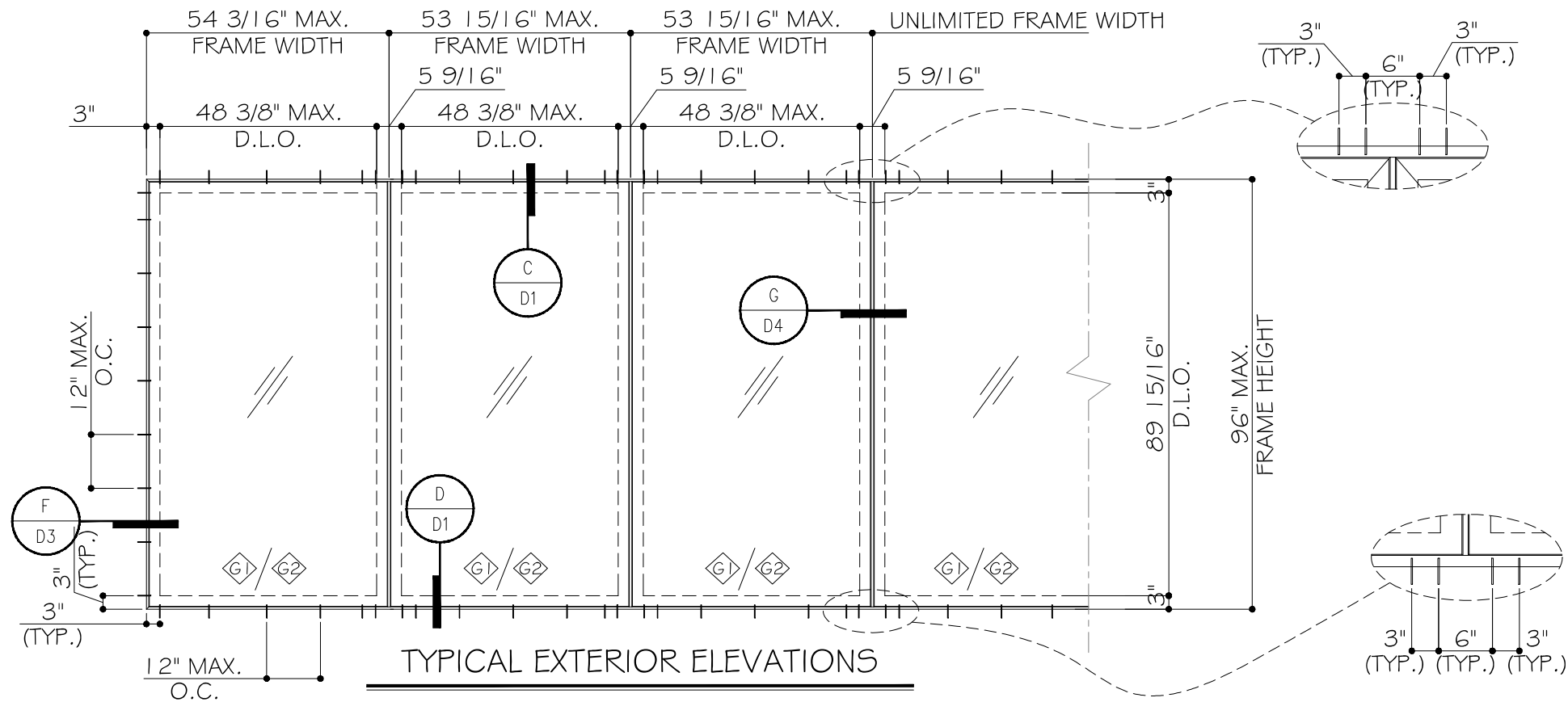
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G1

Sheet No. 02 OF 13

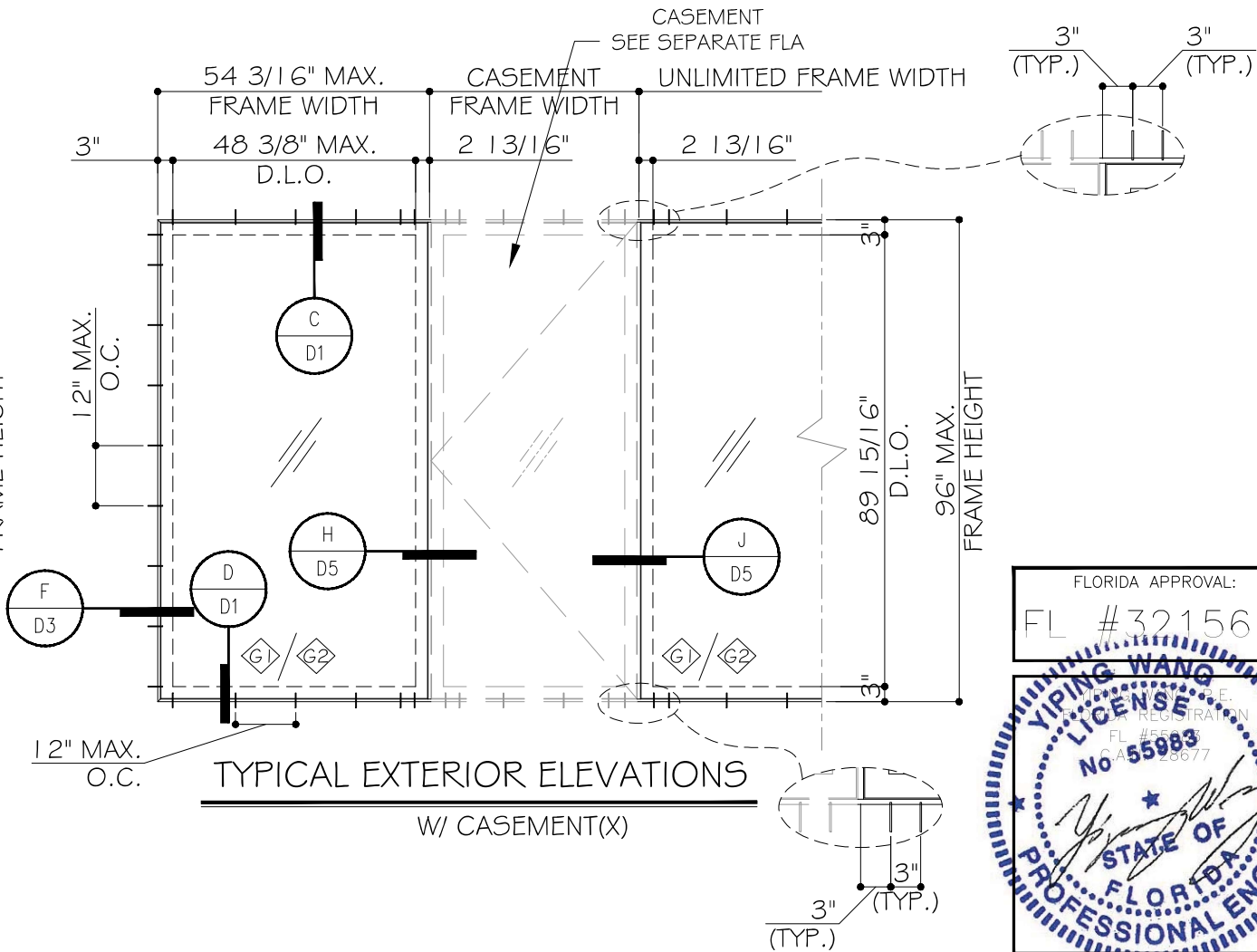
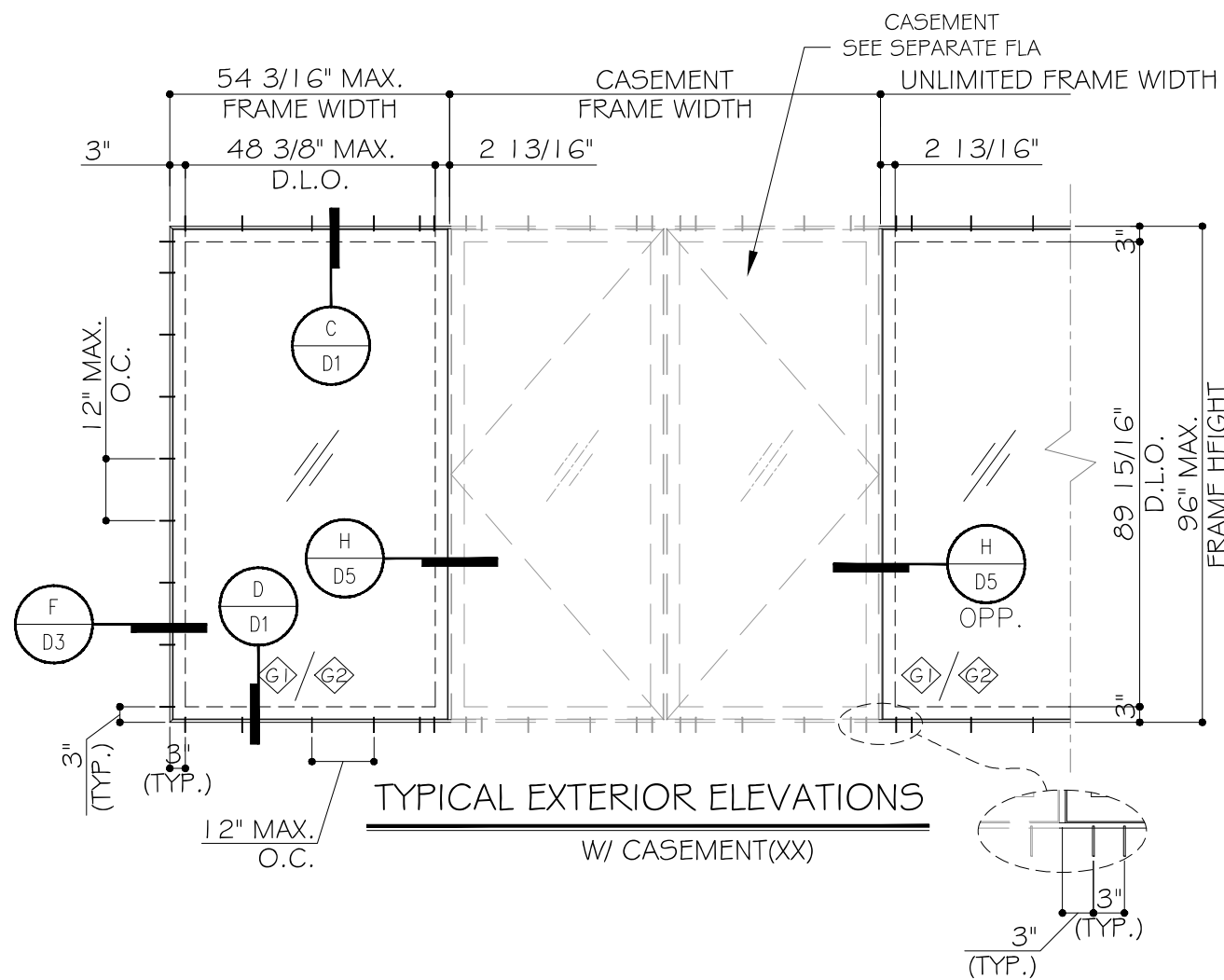


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SERIES 7700 FIX WINDOW SYSTEMS (L.M.I.) CONTINENTAL GLASS SYSTEMS INC. 325 WEST 74TH PLACE HIALEAH, FL 33014 TEL. (305) 231-1101 FAX. (305) 231-1103	
UPDATE TO FBC 2020 Rev. 1 10/19/2020 L.M.	Description Drawn By Date Rev. No.
Drawn Date 05/28/2020	Scale DRAWING NO. AD20-12
E1 Sheet No. 03 OF 13	



DESIGN LOADS
(FOR SIZE SHOWN
ABOVE OR SMALLER AS
PERMITTED BY FBC)

+85 PSF
-85 PSF



FLORIDA APPROVAL:
FL #32156.1

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
FL #55983
C.A. 26677

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www.MCYEngineering.com mcy@mcyengineering.com

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Rev.	Date	Description	Drawn By
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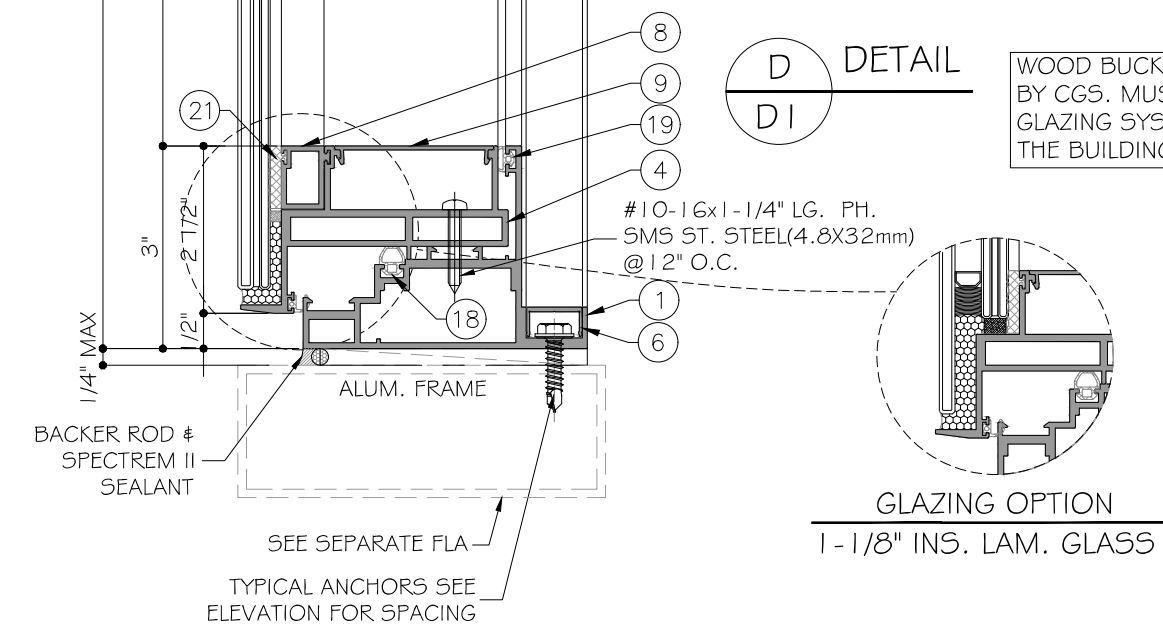
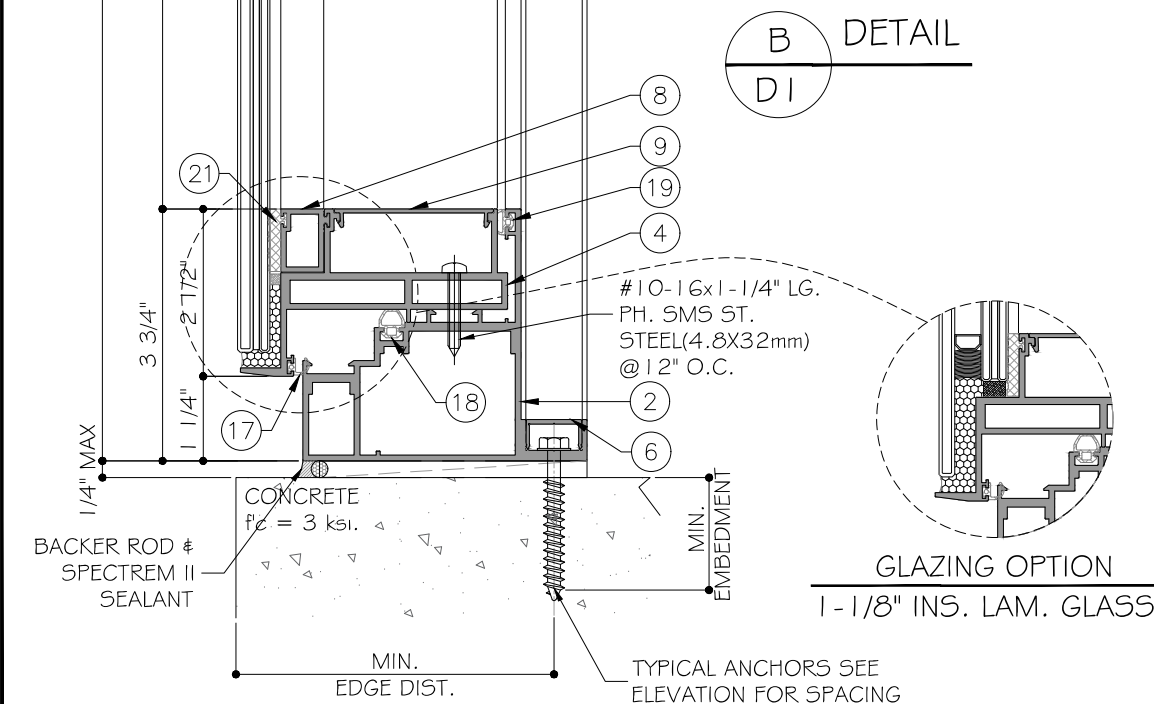
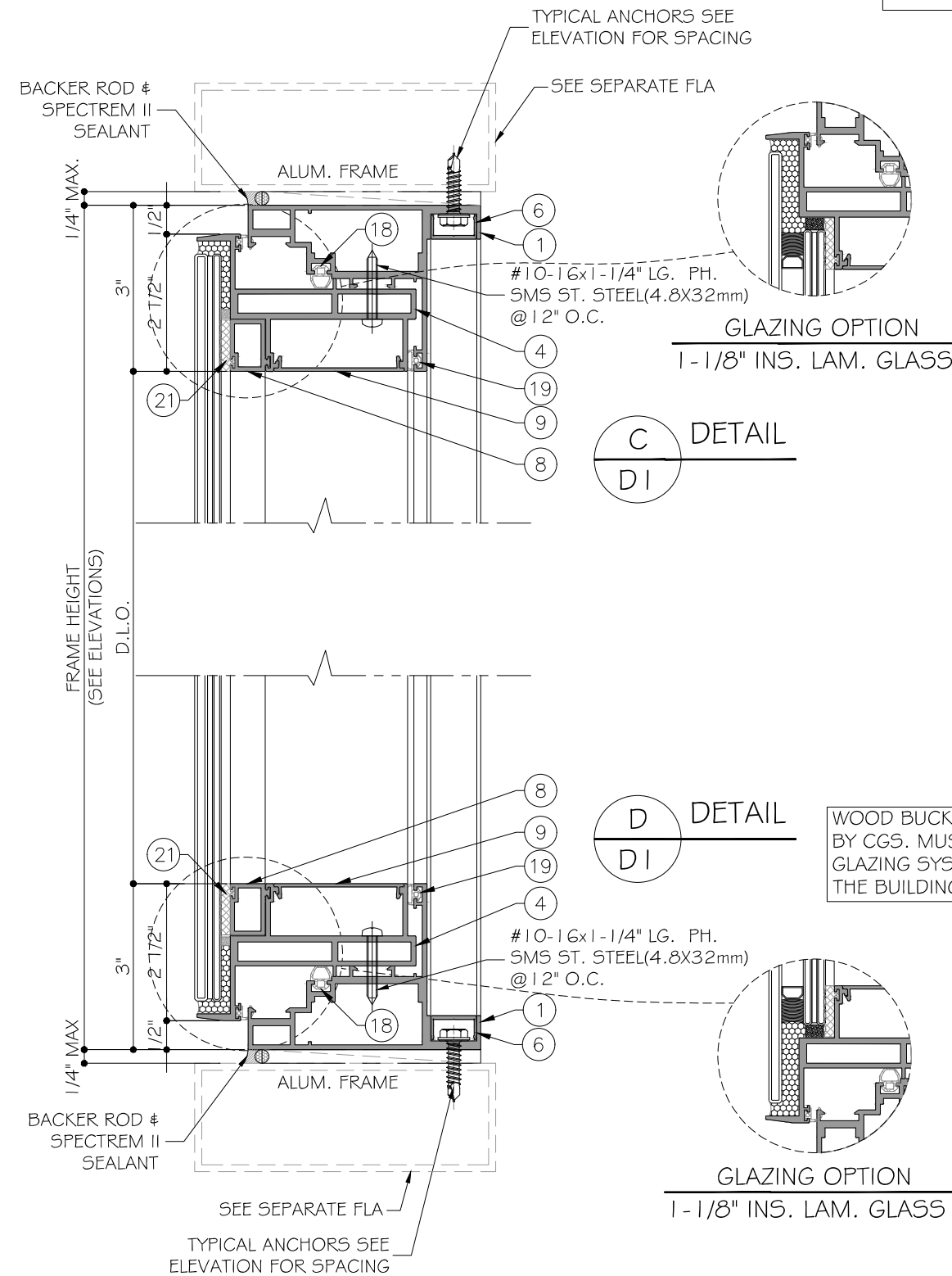
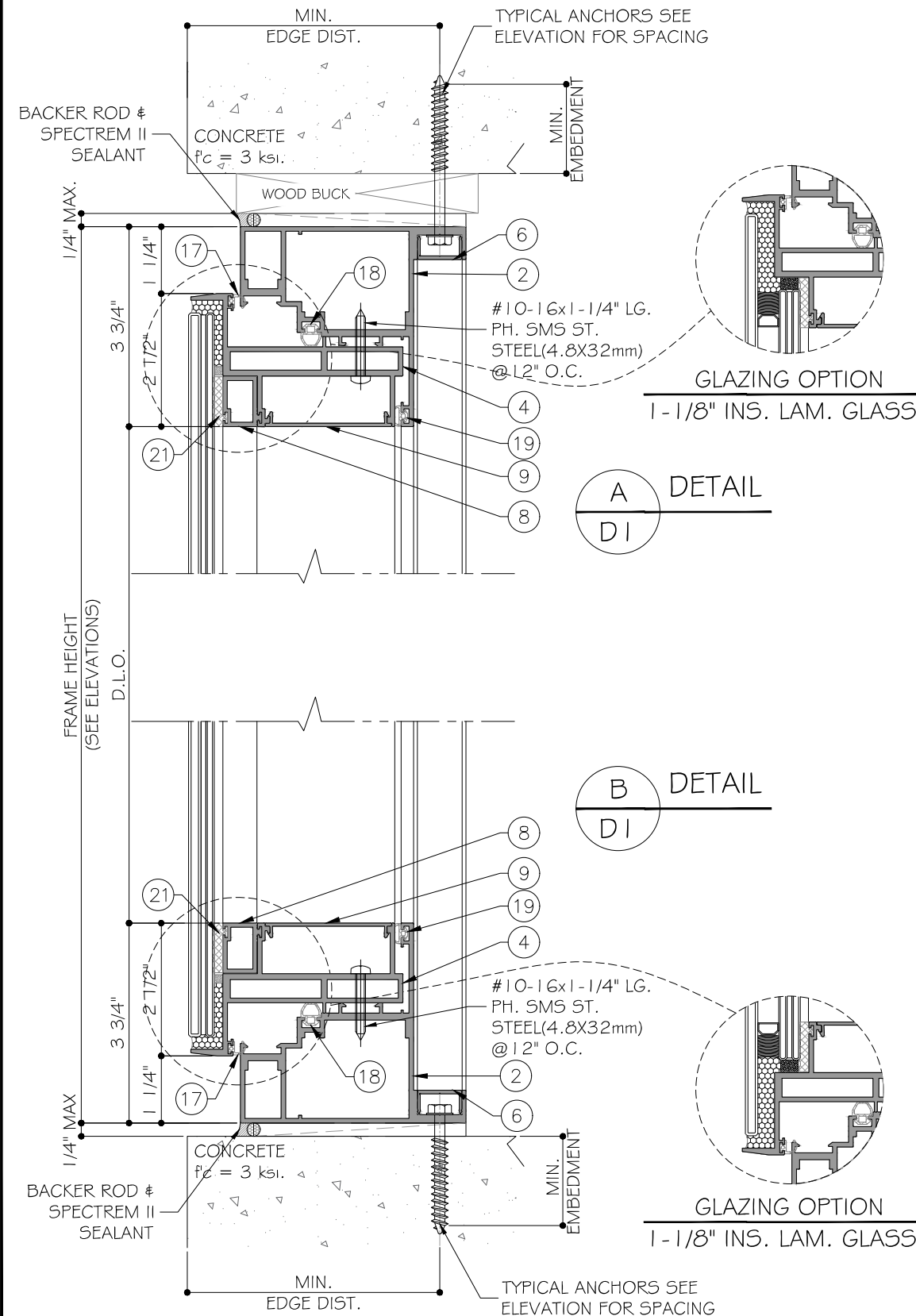
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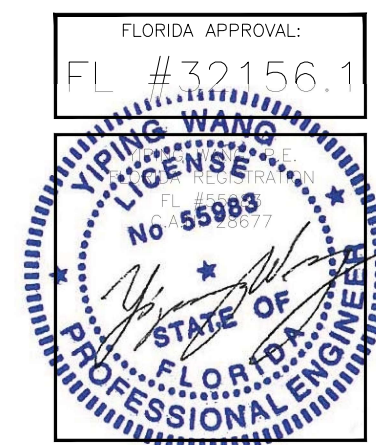
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E2

Sheet No. 04 OF 13



NOTE: THE SUBSTRATES IN THIS SHEET CAN INTERCHANGE TO MEET DIFFERENT CONDITION



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Rev.	Date	Description	Drawn By	Date	Rev. No.
1	10/19/2020	LM			

UPDATE TO FBC 2020

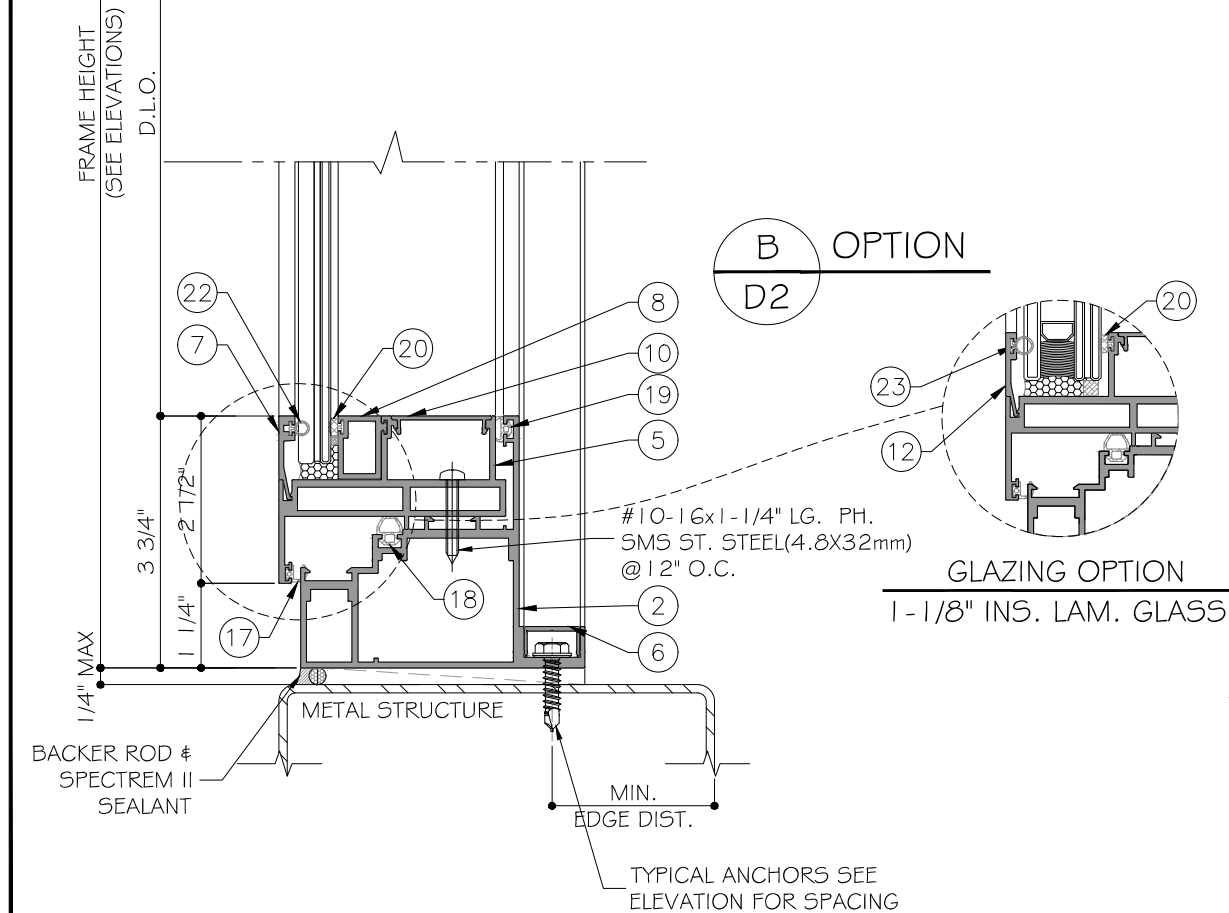
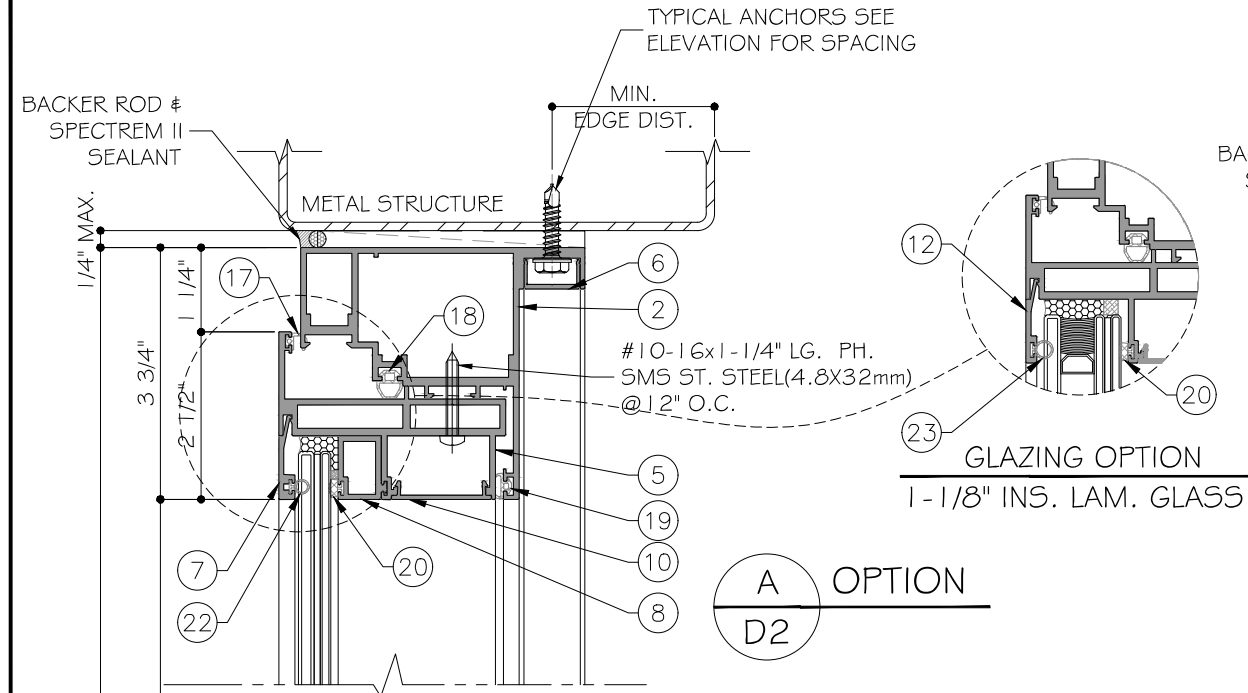
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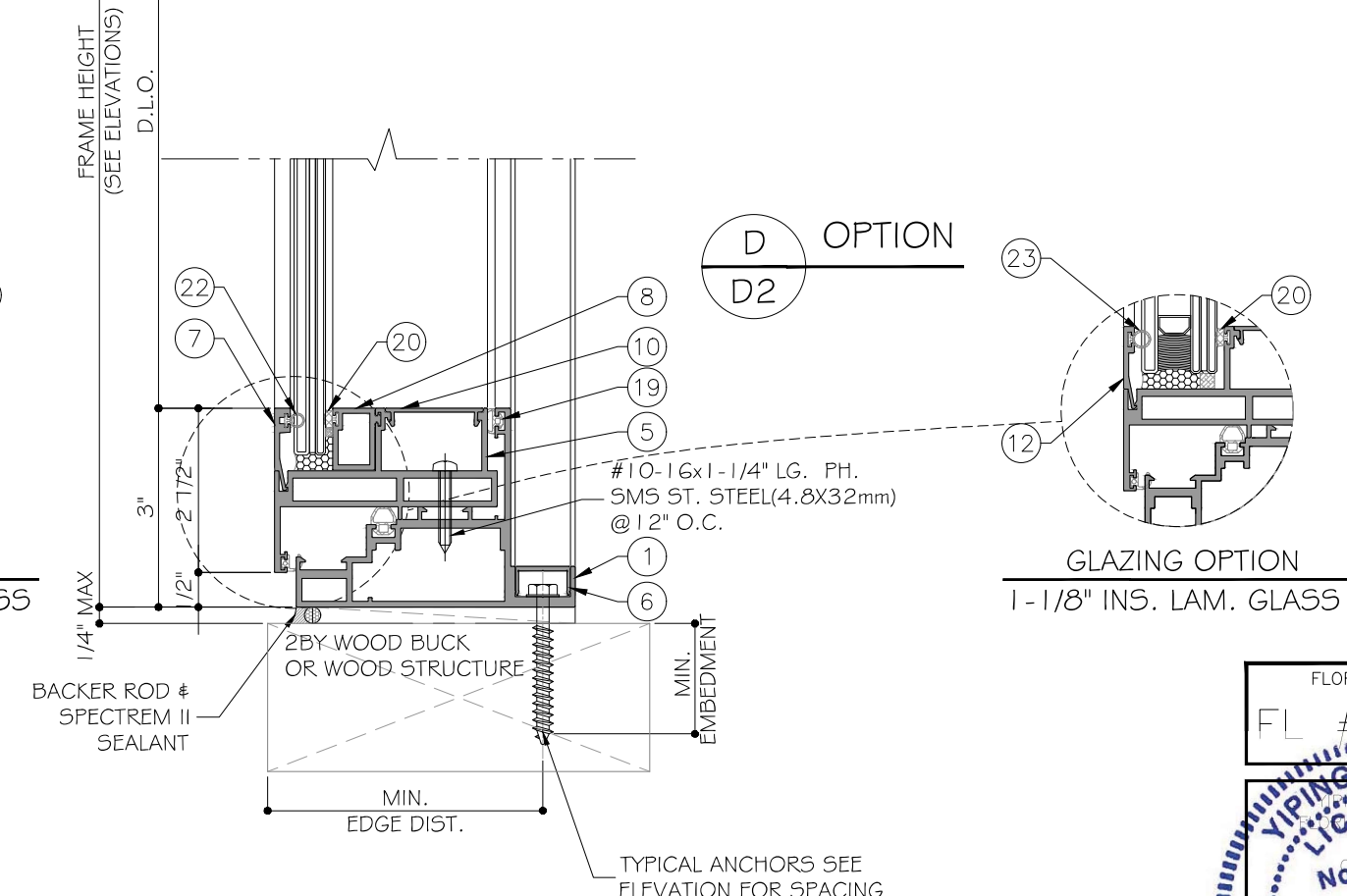
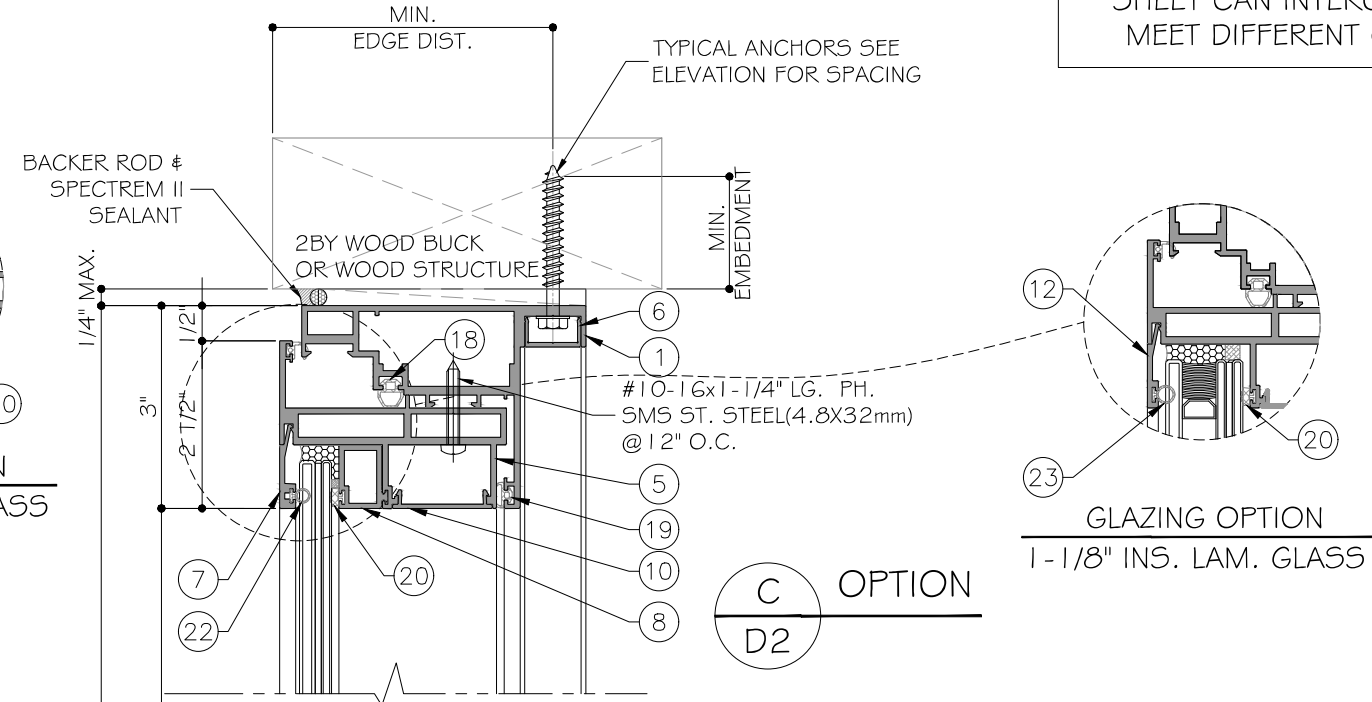
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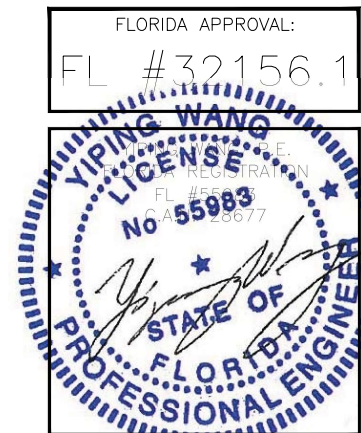


POCKET GLAZED OPTION



POCKET GLAZED OPTION

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Rev.	Date	Description
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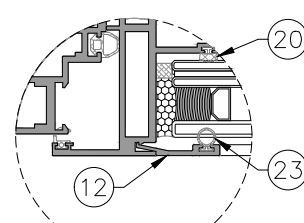
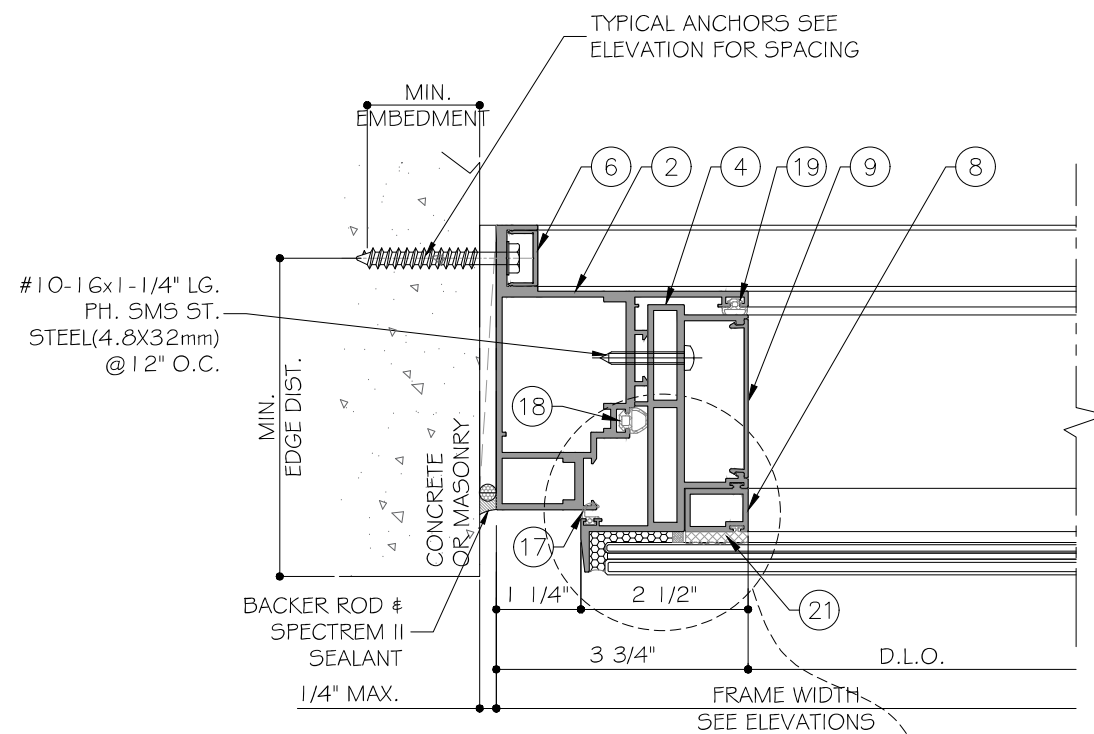
YIPING WANG
PROFESSIONAL ENGINEER
STATE OF FLORIDA
REGISTRATION No. 55983
FL #55983
C.A. 26677

Drawn Date	Scale
05/28/2020	

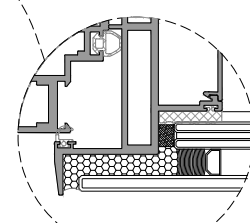
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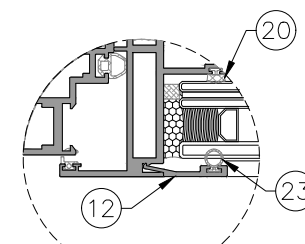
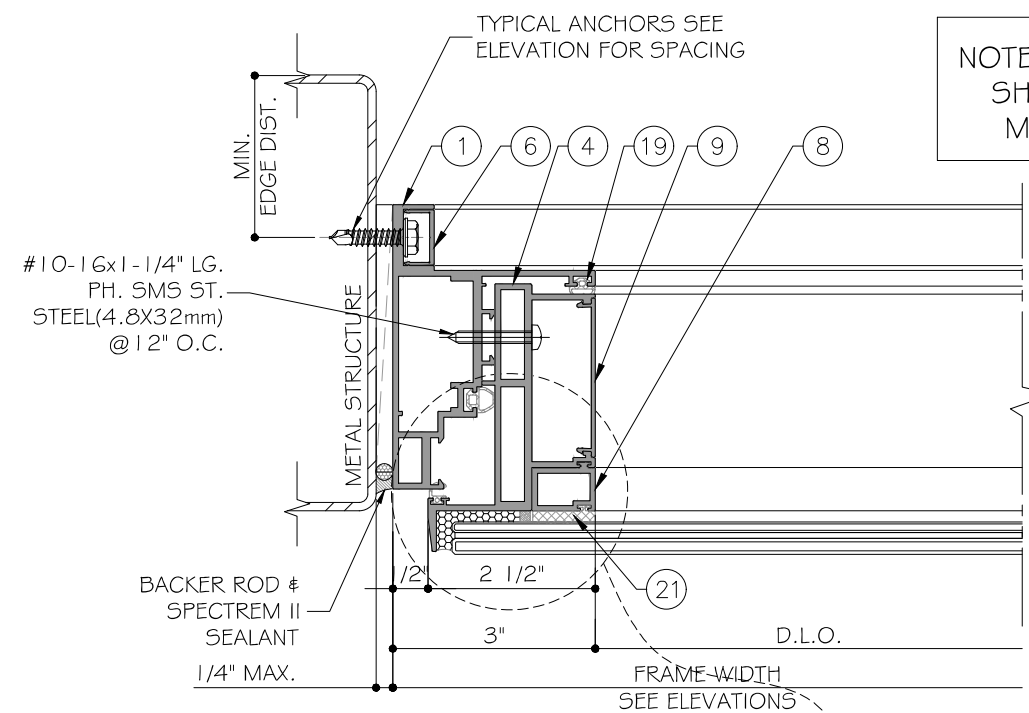
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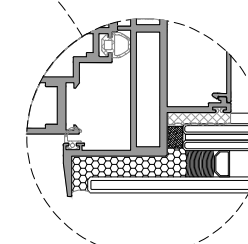
GLAZING OPTION
1-1/8" INS. LAM. GLASS



GLAZING OPTION
1-1/8" INS. LAM. GLASS

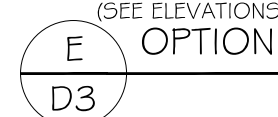
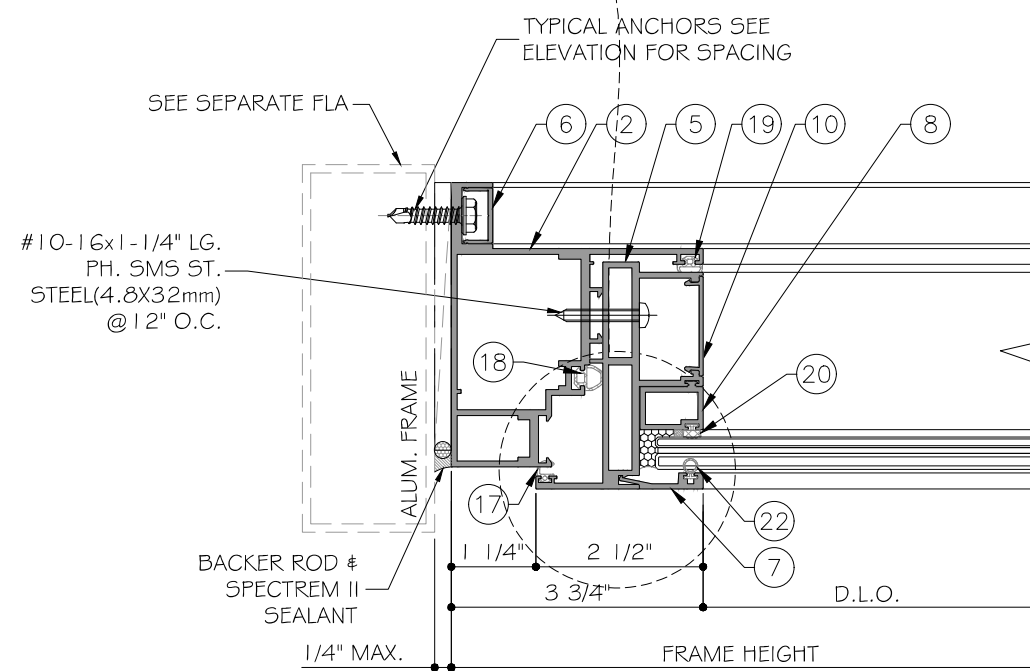


GLAZING OPTION
1-1/8" INS. LAM. GLASS

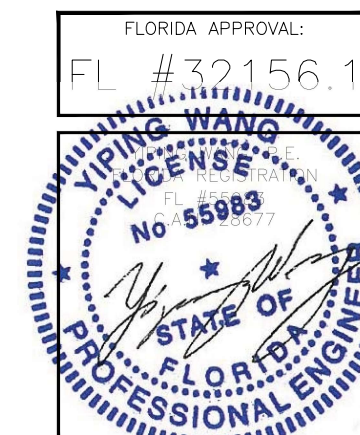
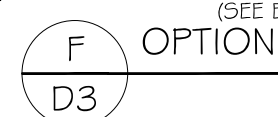
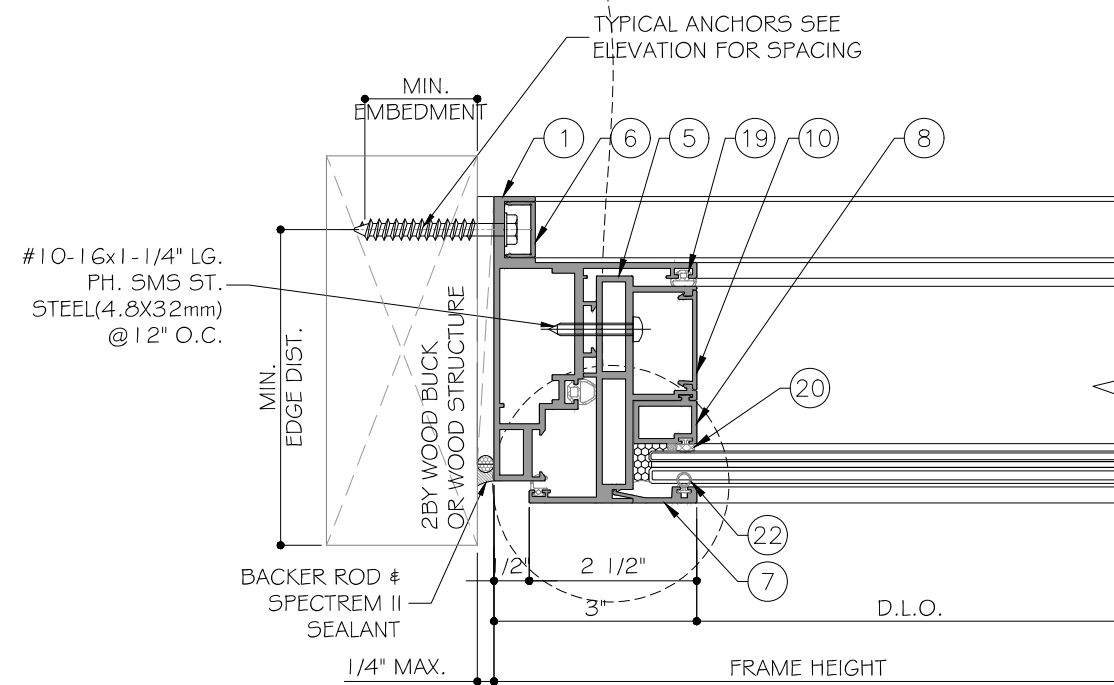


GLAZING OPTION
1-1/8" INS. LAM. GLASS

NOTE:THE SUBSTRATES IN THIS SHEET CAN INTERCHANGE TO MEET DIFFERENT CONDITION



POCKET GLAZED OPTION



Rev.:	10/15/2020	I.M.				UPDATE TO FBC 2020
Drawn Date	05/28/2020	Scale				
DRAWING NO.						
AD20-12						
D3						
Sheet No.						
08 OF 13						

October 19th, 2020

SERIES 7700 FIX WINDOW SYSTEMS (L.M.I.)

CONTINENTAL GLASS SYSTEMS INC.

3325 WEST 74TH PLACE HIALEAH, FL. 33014

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

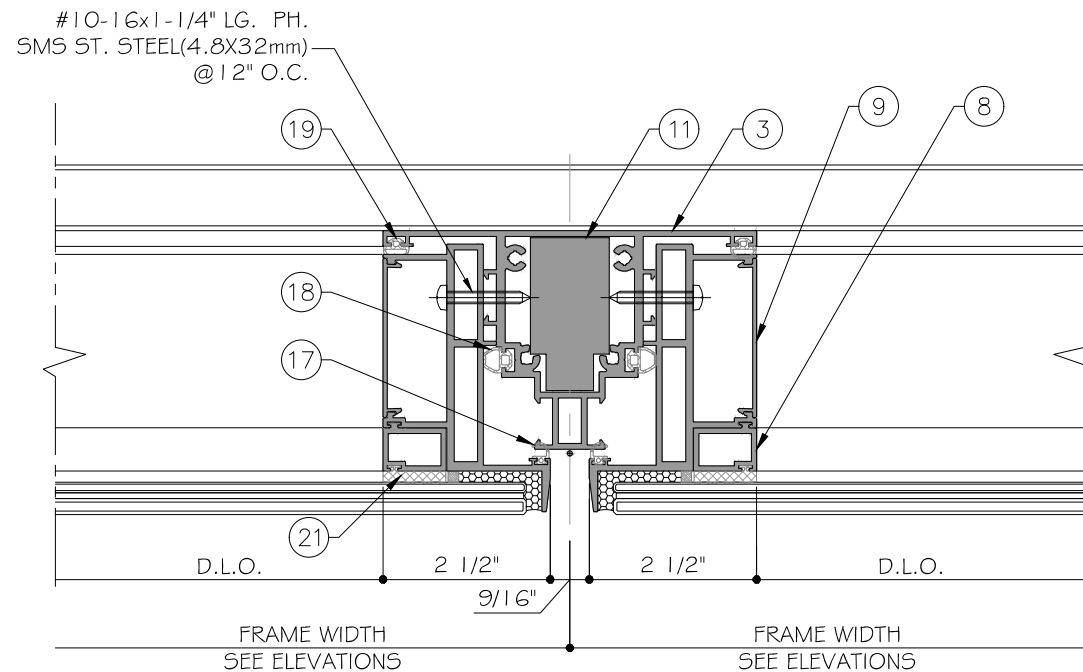
MCY ENGINEERING, INC.

ENGINEERING, I
GLAZING CONSULTANTS

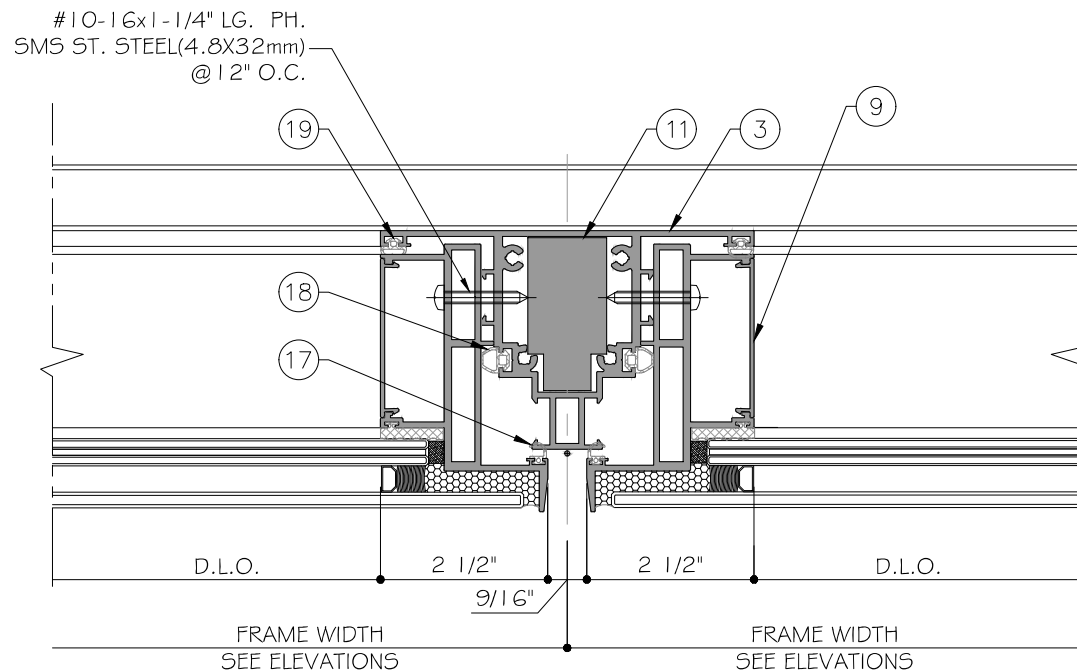
12781 MIRAMAR PARKWAY #301 P: 786.360.2786
MIRAMAR, FL 33027 F: 305.271.0117

12761 MIRAMAR PARKWAY #301 P: 786.360.2788
MIRAMAR, FL. 33027 F: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

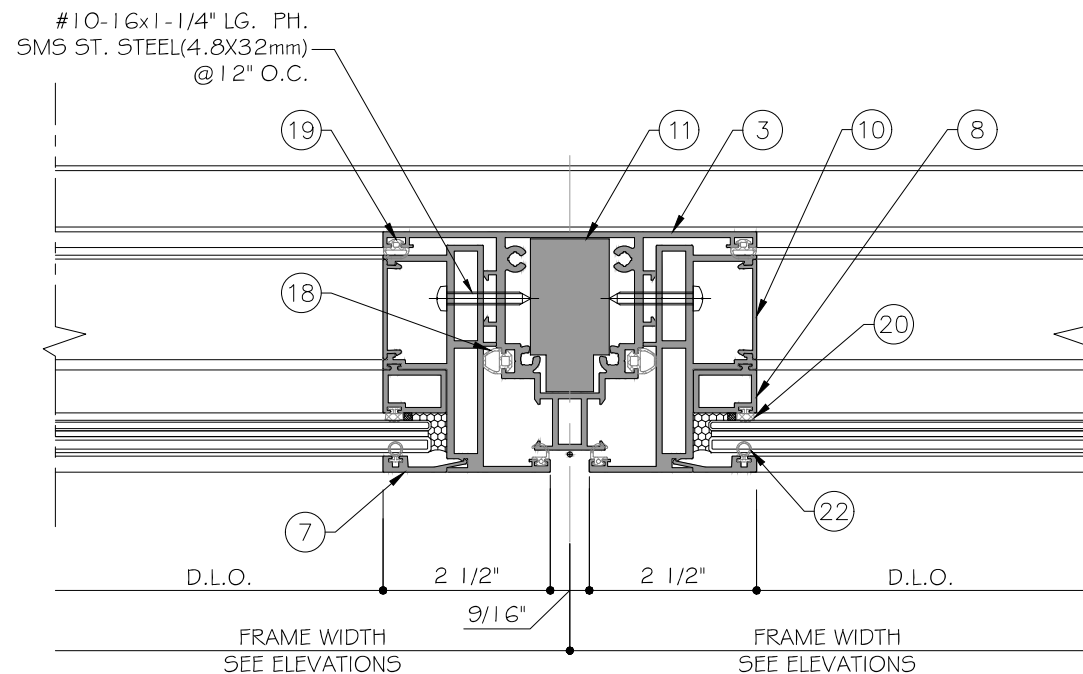


G
D4
DETAIL



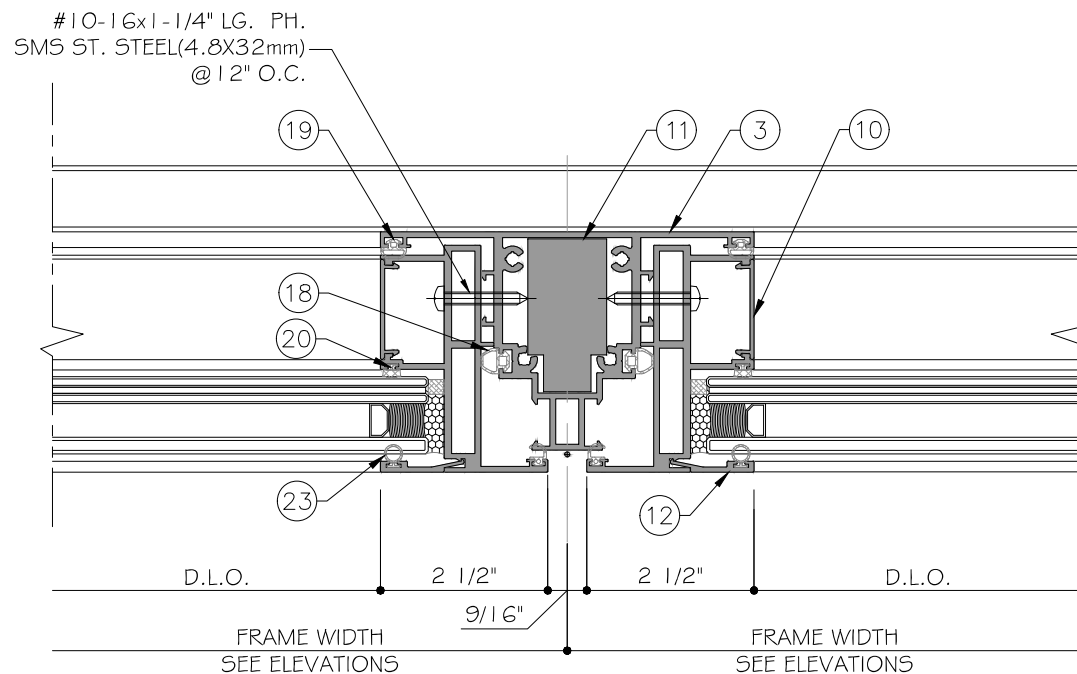
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OPTION

GLAZING OPTION



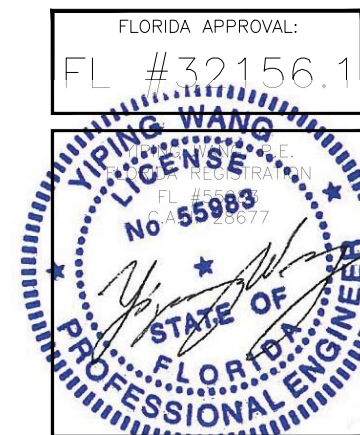
G
D4
OPTION

POCKET GLAZED OPTION



G
D4
OPTION

POCKET GLAZED OPTION



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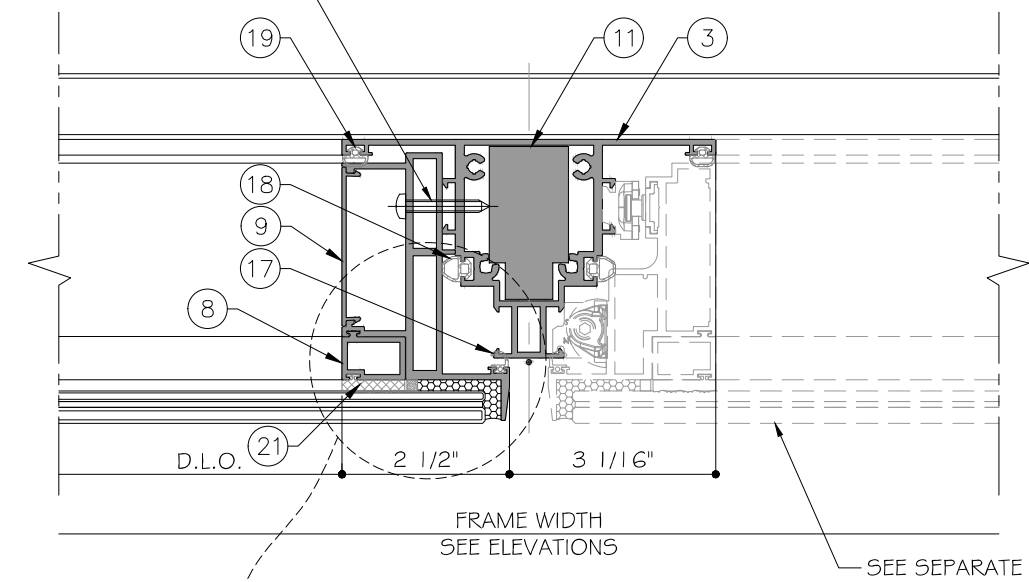
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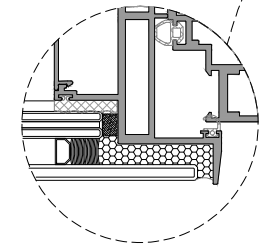
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Sheet No. 09 OF 13

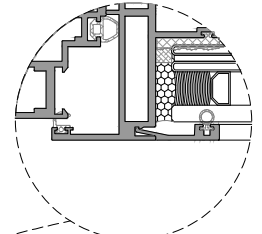
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SMS ST. STEEL(4.8X32mm)
@ 12" O.C.



H
D5
DETAIL

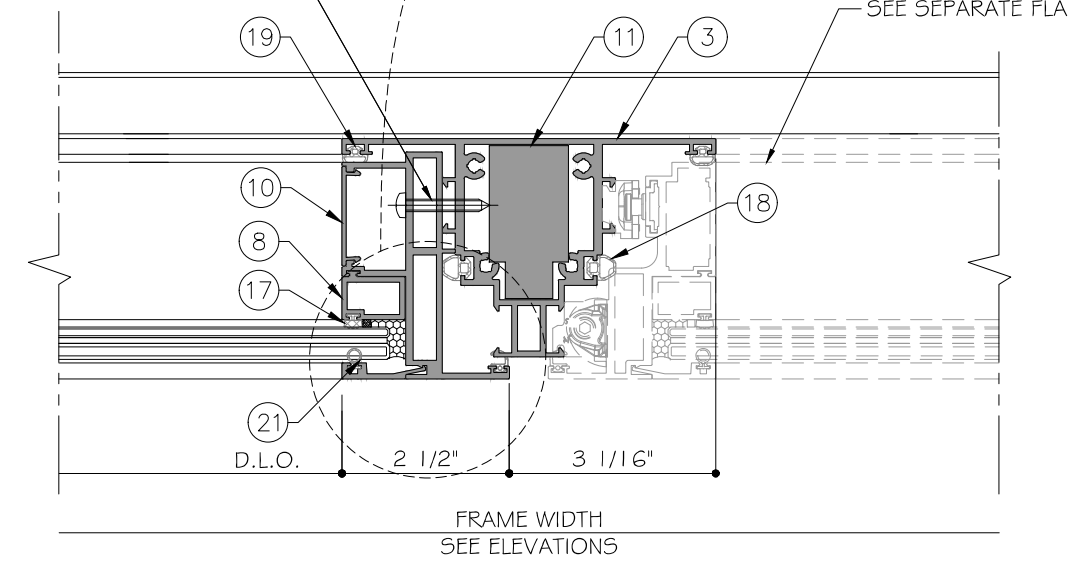


GLAZING OPTION
1-1/8" INS. LAM. GLASS



GLAZING OPTION
1-1/8" INS. LAM. GLASS

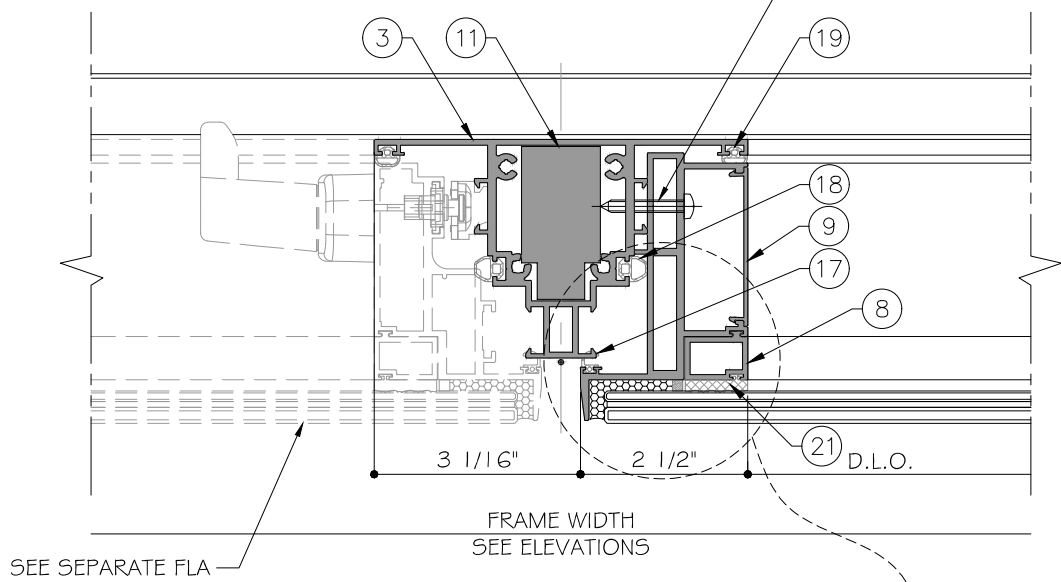
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SMS ST. STEEL(4.8X32mm)
@ 12" O.C.



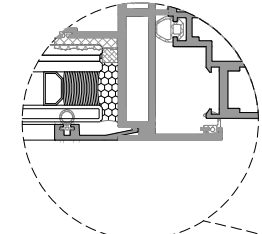
H
D5
OPTION

POCKET GLAZED OPTION

#10-16x1-1/4" LG. PH.
SMS ST. STEEL(4.8X32mm)
@ 12" O.C.



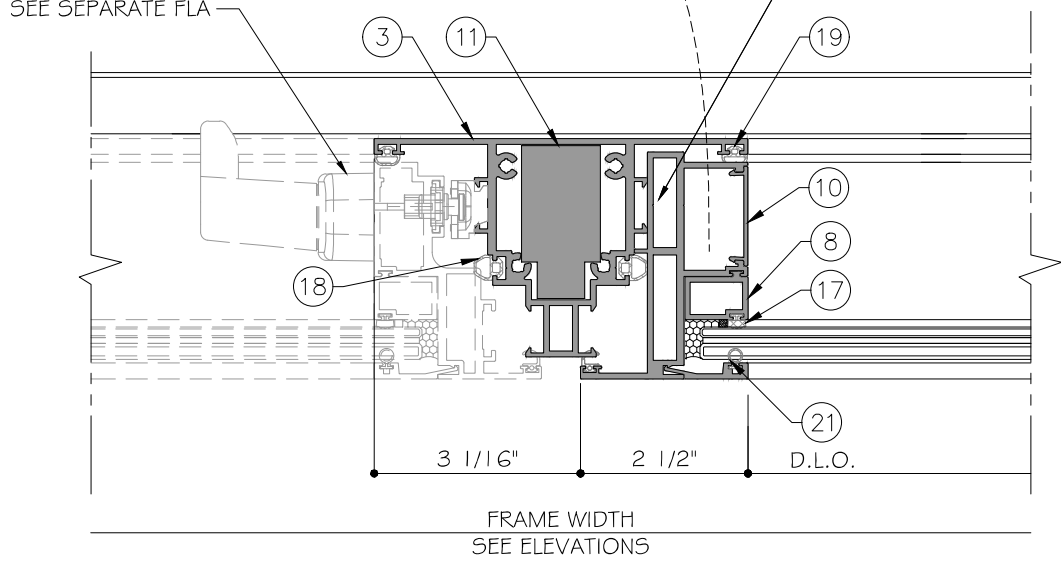
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DETAIL



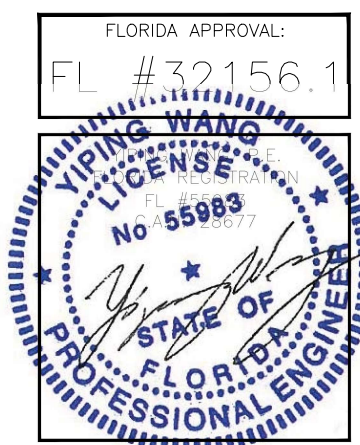
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1-1/8" INS. LAM. GLASS

GLAZING OPTION
1-1/8" INS. LAM. GLASS

#10-16x1-1/4" LG. PH.
SMS ST. STEEL(4.8X32mm)
@ 12" O.C.



J
D5
OPTION



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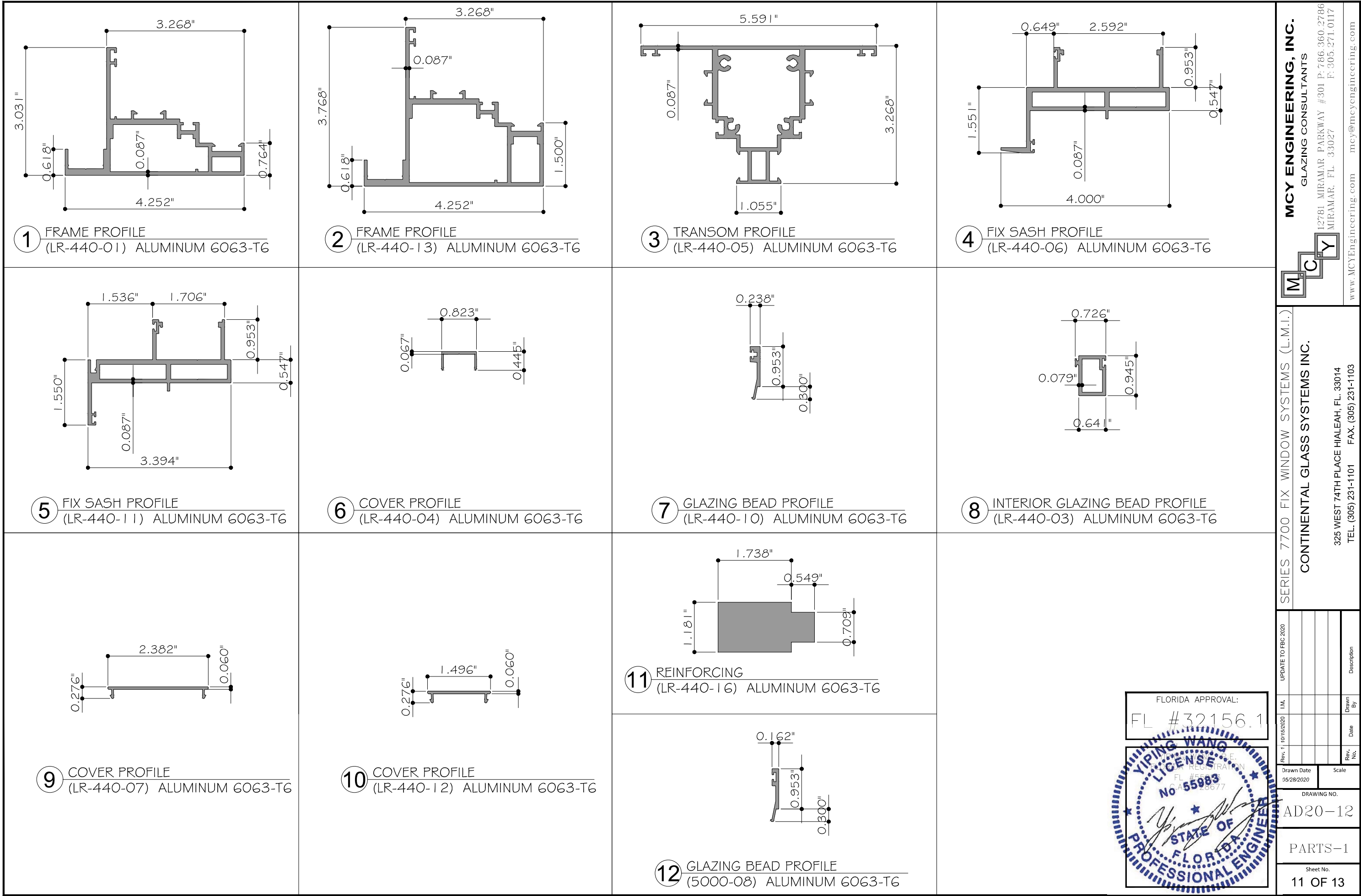
SERIES 7700 FIX WINDOW SYSTEMS (L.M.I.)

CONTINENTAL GLASS SYSTEMS INC.

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

Rev. 1	10/19/2020	LM	UPDATE TO FBC 2020	Drawn By	Description
Drawn Date	05/28/2020	Scale		Rev. No.	
DRAWING NO.			AD20-12		
D5					
Sheet No.			10 OF 13		

October 19th, 2020



ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	LR-440-01	FRAME PROFILE	6063-T6	LINEA ROSSA
2	LR-440-13	FRAME PROFILE	6063-T6	LINEA ROSSA
3	LR-440-05	TRANSOM PROFILE	6063-T6	LINEA ROSSA
4	LR-440-06	FIX SASH PROFILE	6063-T6	LINEA ROSSA
5	LR-440-11	FIX SASH PROFILE	6063-T6	LINEA ROSSA
6	LR-440-04	COVER PROFILE	6063-T6	LINEA ROSSA
7	LR-440-10	GLAZING BEAD PROFILE	6063-T6	LINEA ROSSA
8	LR-440-03	INTERIOR GLAZING BEAD PROFILE	6063-T6	LINEA ROSSA
9	LR-440-07	COVER PROFILE	6063-T6	LINEA ROSSA
10	LR-440-12	COVER PROFILE	6063-T6	LINEA ROSSA
11	LR-440-16	REINFORCING	6063-T6	LINEA ROSSA
12	5000-08	INTERIOR GLAZING BEAD PROFILE	6063-T6	LINEA ROSSA
13	B3119511	CORNER CLEAT 19.6X511.1mm	6063-T6	LINEA ROSSA
14	B3108170	CORNER CLEAT 8.6X17mm	6063-T6	LINEA ROSSA
15	B3111337	CORNER CLEAT 10.5X33.7mm	6063-T6	LINEA ROSSA
16	B3111397	CORNER CLEAT 10.5X39.7mm	6063-T6	LINEA ROSSA
17	B4110019	SASH GASKET	EPDM,DUROMETER 70 +/-5 SHORE-A	LINEA ROSSA
18	B4310002	CENTRAL GASKET	EPDM,DUROMETER 70 +/-5 SHORE-A	LINEA ROSSA
19	B4510053	FRAME GASKET	EPDM,DUROMETER 70 +/-5 SHORE-A	LINEA ROSSA
20	B4510091	INTERIOR GLAZING GASKET	EPDM,DUROMETER 70 +/-5 SHORE-A	LINEA ROSSA
21	B4410009	INTERIOR GLAZING GASKET	EPDM,DUROMETER 70 +/-5 SHORE-A	LINEA ROSSA
22	B4510092	EXTERIOR GLAZING GASKET	EPDM,DUROMETER 70 +/-5 SHORE-A	LINEA ROSSA
23	B4510093	EXTERIOR GLAZING GASKET	EPDM,DUROMETER 70 +/-5 SHORE-A	LINEA ROSSA
24	-	SETTING BLOCK 4" LG. AT 1/4" POINT DUROMETER 85 +/-5 SHORE-A	EPDM	-

GLAZING CONSULTANTS

mcv@mcvengineering.com

www.MCYEngineering.com mcv@mcvengineering.com

SERIES 7700 FIX WINDOW SYSTEMS (L.M.I.)

CONTINENTAL GLASS SYSTEMS INC.

3325 WEST 74TH PLACE HIALEAH, FL. 33014

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

Rev. No.	Date	Drawn By	Description
Rev. 1	10/15/2020	I.M.	UPDATE TO FBC 2020

DRAWING NO

AD20-12

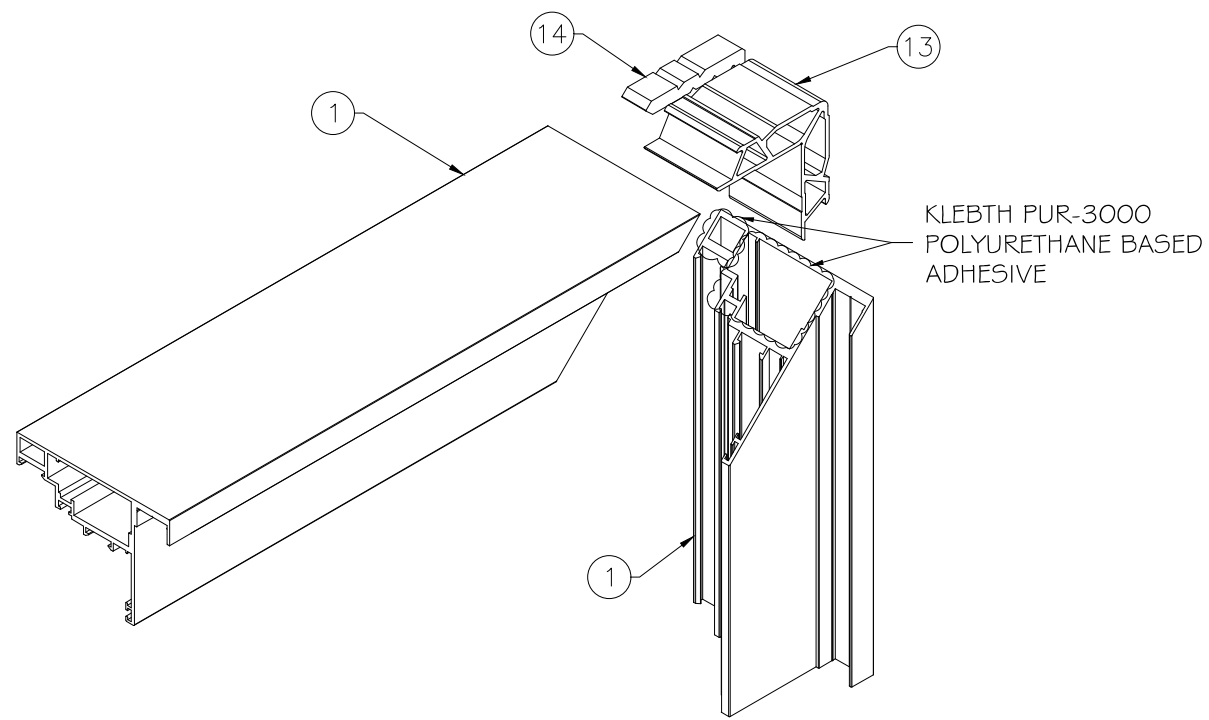
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Sheet No.
12 OF 13

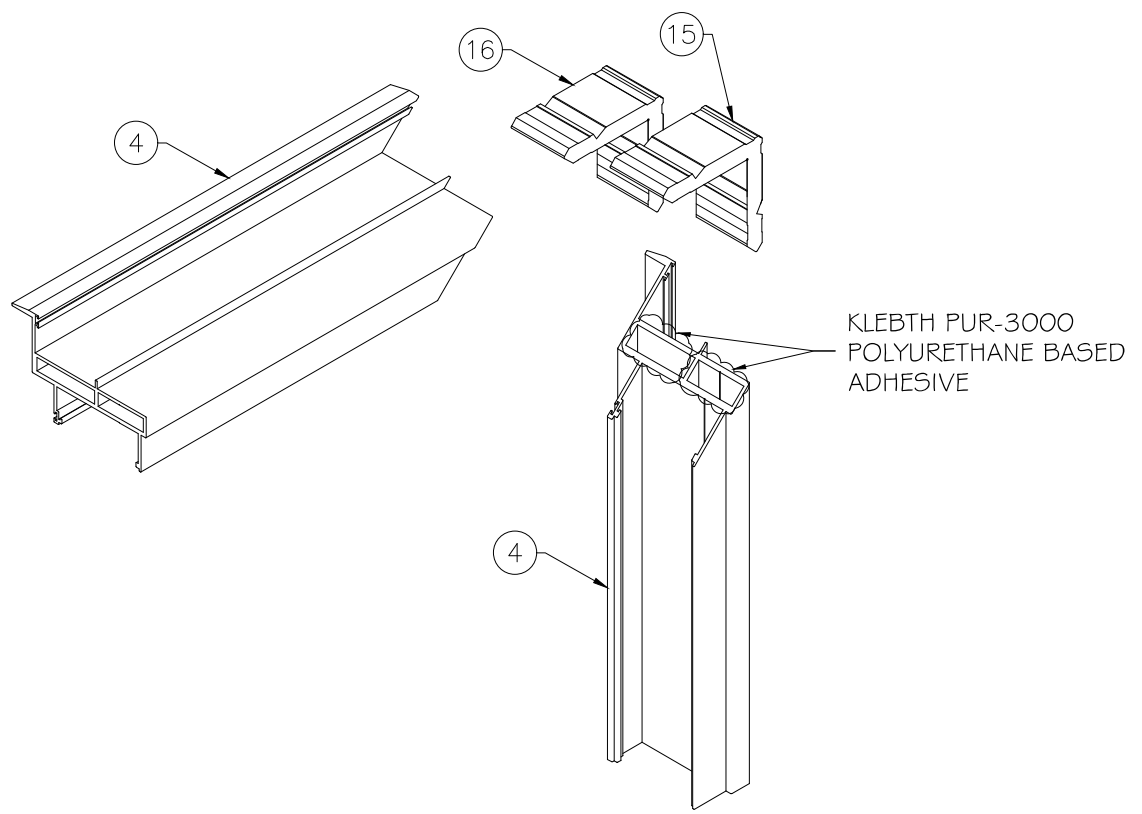
FLORIDA APPROVAL:

FL #32156.1

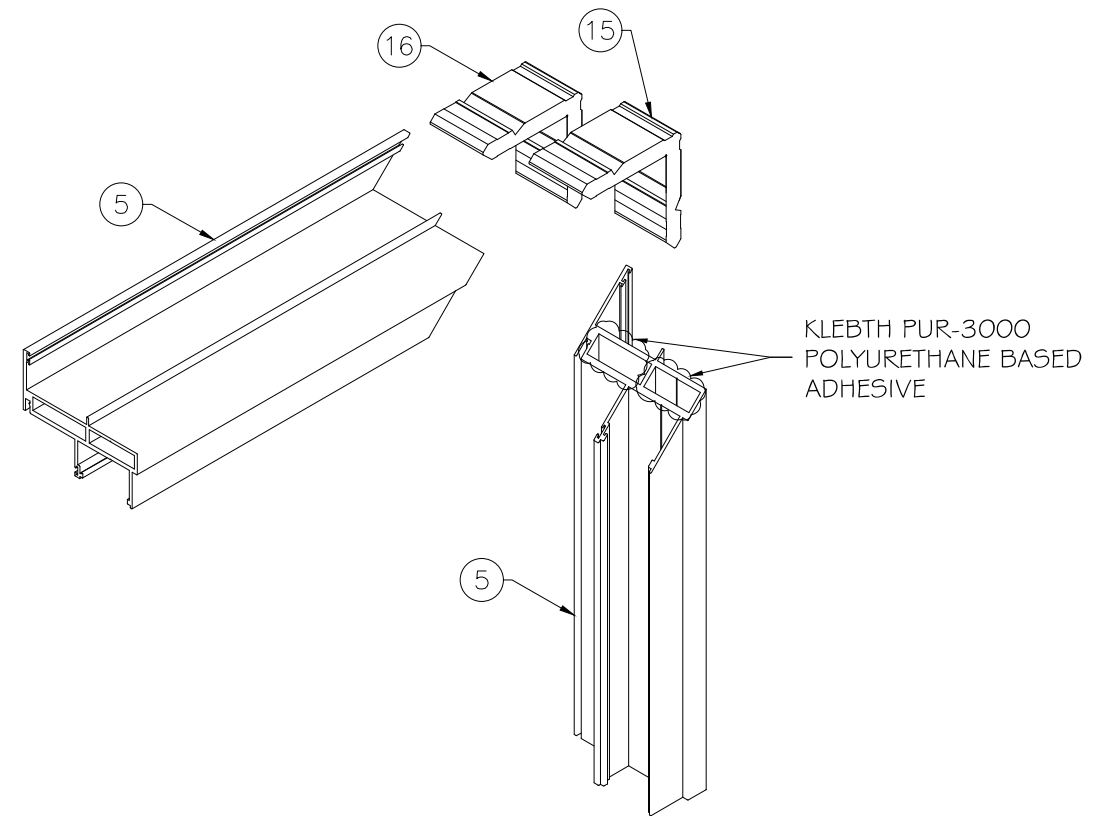
October 19th, 2020



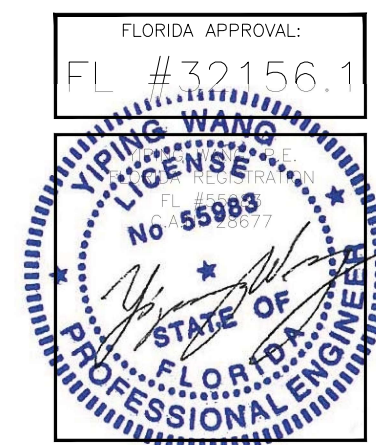
FRAME PROFILE CORNER



FIX SASH PROFILE CORNER



FIX SASH PROFILE CORNER



MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 P: 786.360.2786 MIRAMAR, FL 33027 F: 305.271.0117 www.MCYEngineering.com mcye@mcyengineering.com	
SERIES 7700 FIX WINDOW SYSTEMS (L.M.I.) CONTINENTAL GLASS SYSTEMS INC. 325 WEST 74TH PLACE HIALEAH, FL 33014 TEL. (305) 231-1101 FAX. (305) 231-1103	
UPDATE TO FBC 2020 L.M. Rev. 1 10/15/2020	Description Drawn By Date Rev. No.
Drawn Date 05/28/2020	Scale DRAWING NO. AD20-12
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