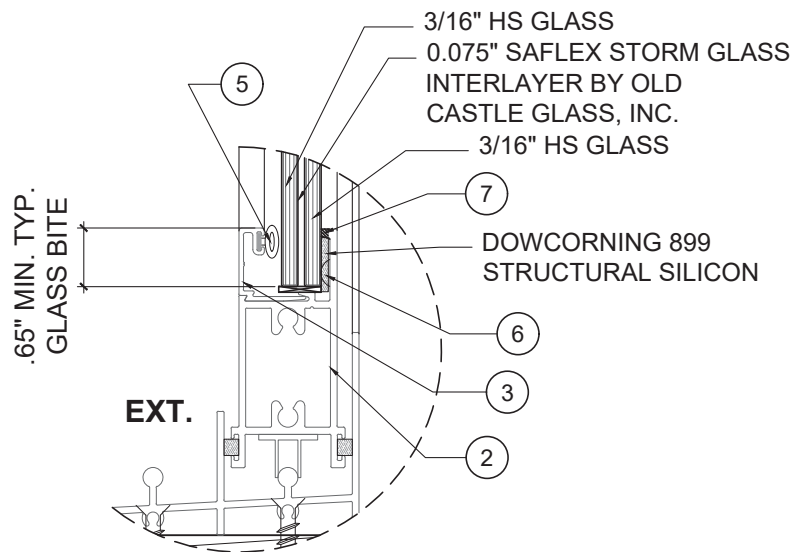
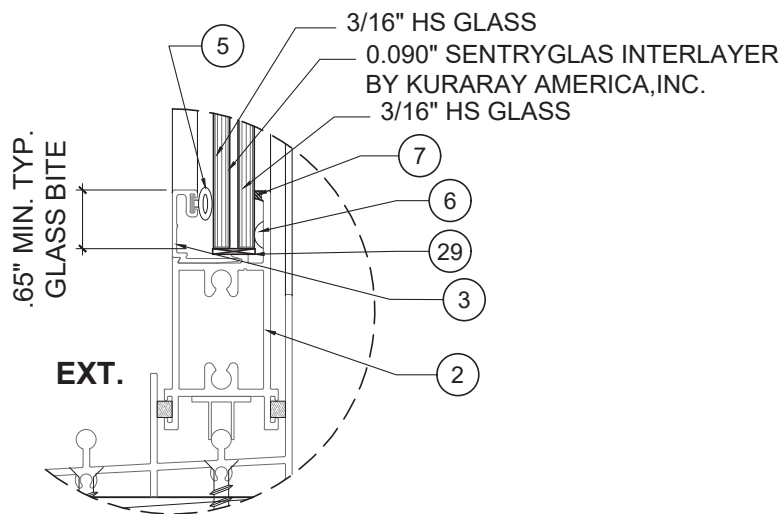


SERIES SG 2100 SLIDING GLASS DOORS (L.M.I. & S.M.I.)



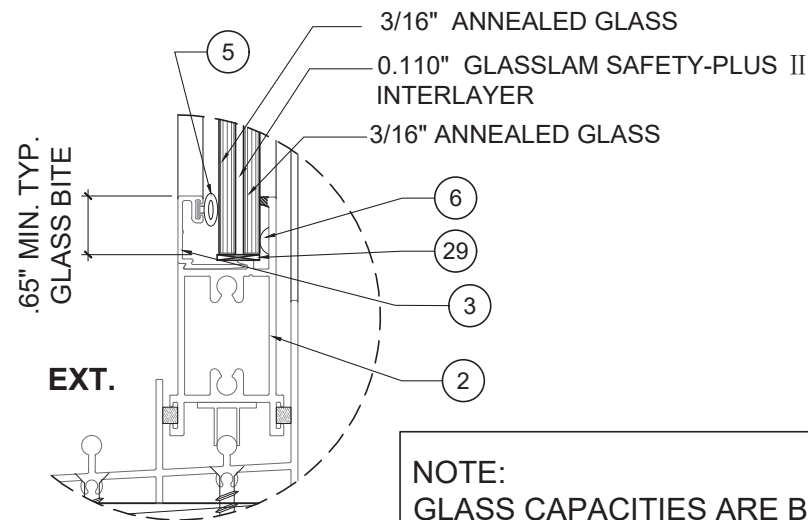
GLASS TYPE "A"

7/16" NOMINAL TOTAL THK.



GLASS TYPE "B"

7/16" NOMINAL TOTAL THK.



GLASS TYPE "C"

1/2" NOMINAL TOTAL THK.

NOTE:
GLASS CAPACITIES ARE BASED ON
ASTM E1300-12 (3 SEC. GUSTS)

SG2100 SLIDING GLASS DOORS

GENERAL NOTES:

- 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).
- DOORS RATED FOR LARGE AND SMALL MISSILE IMPACT AND DO NOT REQUIRE SHUTTERS.
- ULTIMATE DESIGN LOAD OBTAINED FROM ASCE 7-16/ ASCE 7-22, MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO DESIGN LOAD IN THIS DOCUMENT.
- THESE DOORS 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 OR BETTER) 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.

- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 2020/2023 FLORIDA BUILDING CODE.

- METAL STRUCTURES NOT BY EMC WINDOWS & DOORS, LLC. MUST SUPPORT LOADS IMPOSED BY WINDOW SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

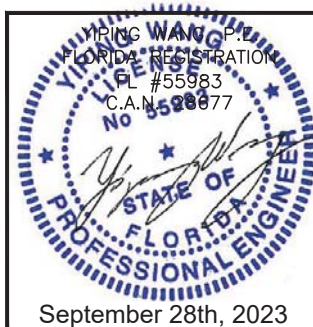
- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

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

- 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 #17596



SERIES SG2100 SLIDING GLASS DOOR (L.M.I. & S.M.I.)

EMC WINDOWS AND DOORS, LLC.

1356 W. 76TH STREET

HALEAH, FL 33014

TEL. (305) 283-6280 EMCWindowsDoors@gmail.com

MCY ENGINEERING, INC.

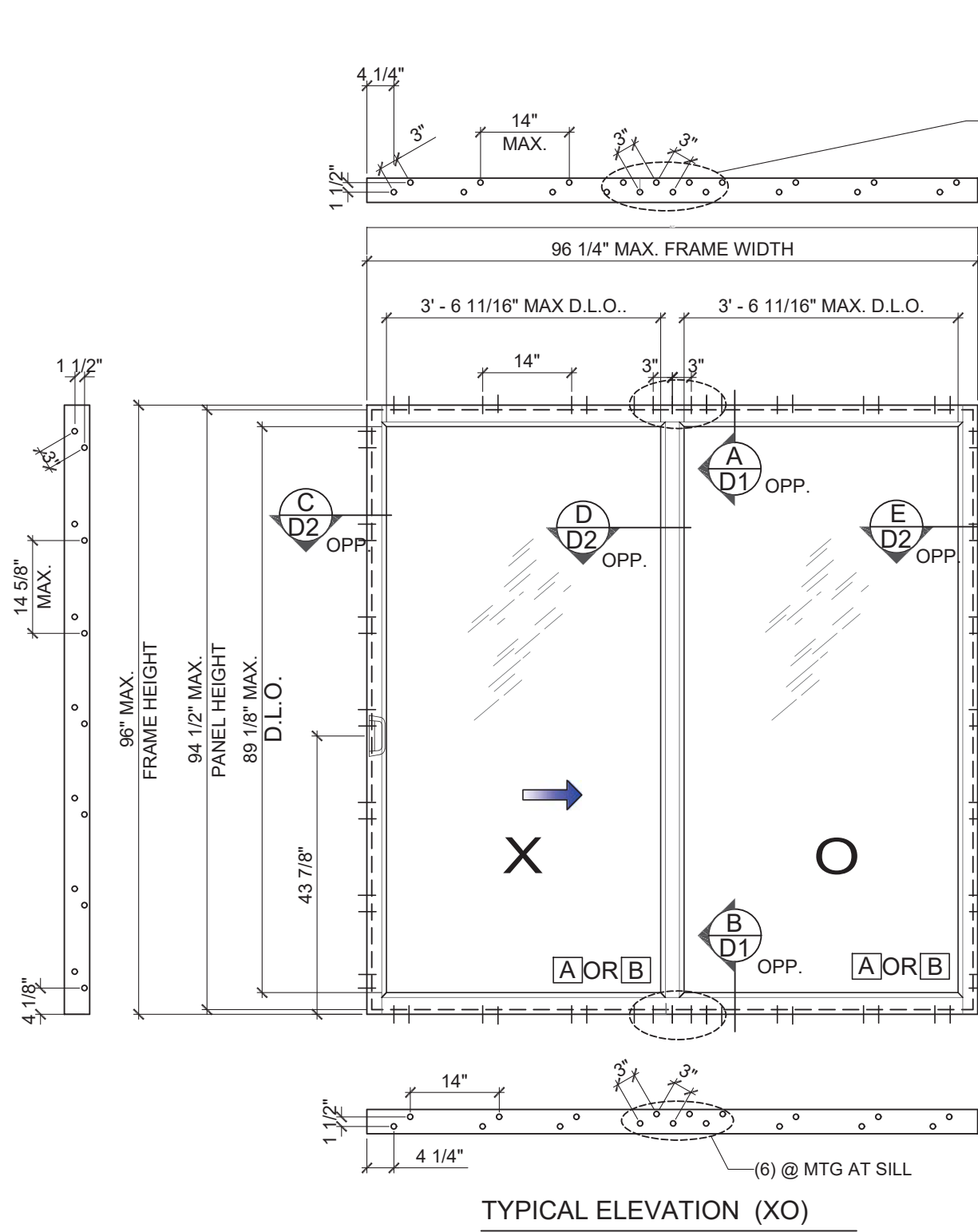
GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301 F. (305) 271-0117
MIRAMAR, FL 33027

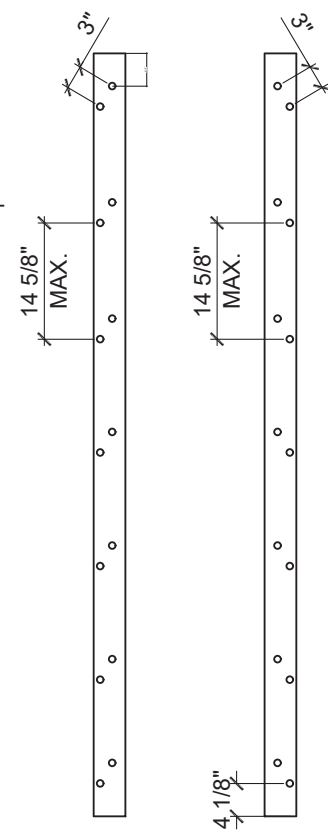
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mcymcyengineering.com

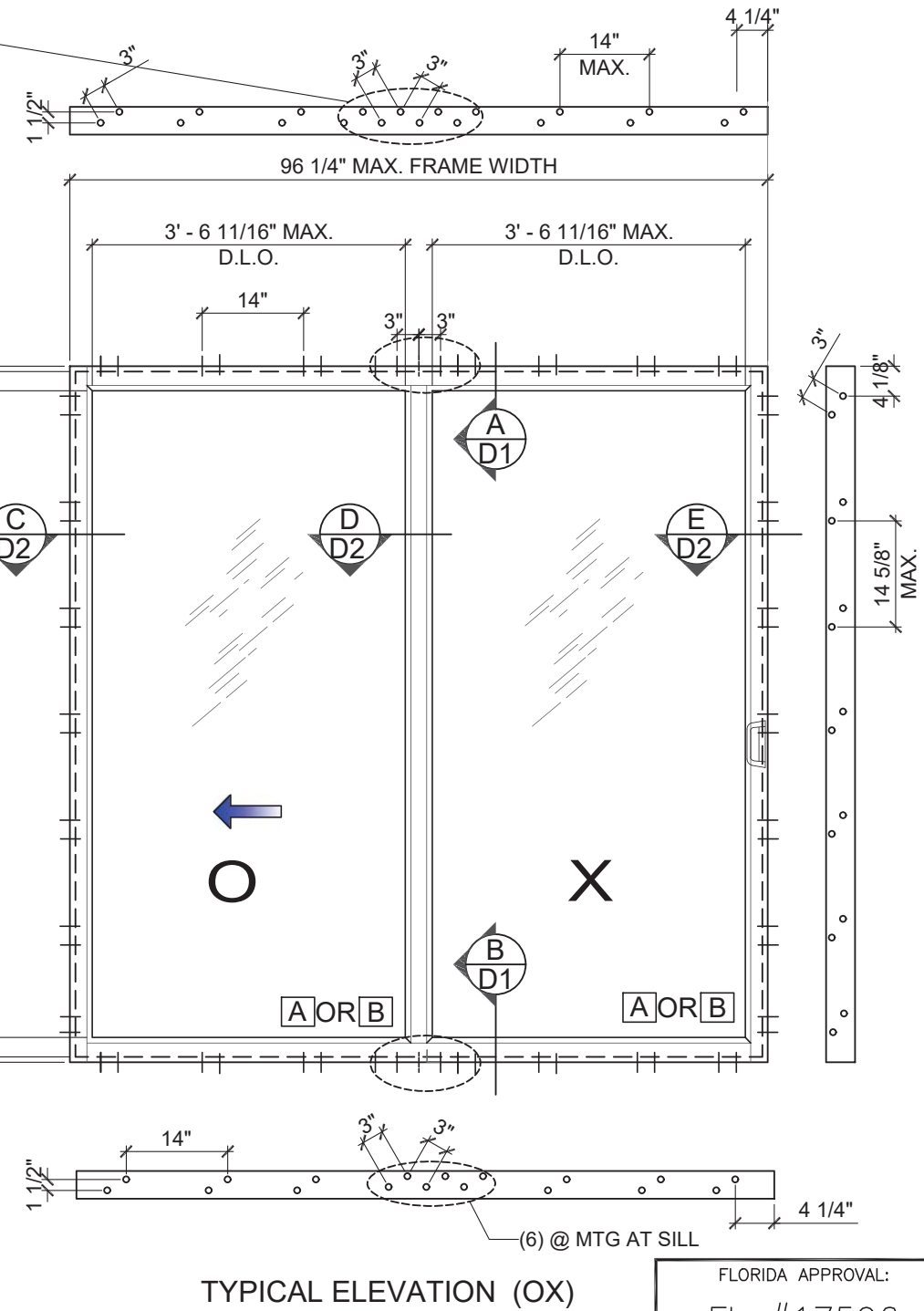
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09.23.2023	
Rev. No.	Description
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Drawing No.	
AD15-16	
COVER	
Sheet No.	
SHEET 1 OF 13	



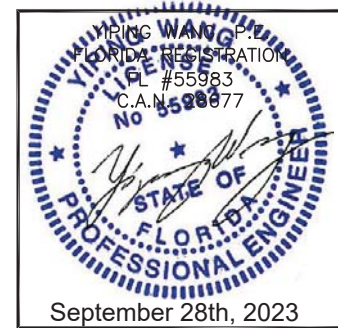
HEAD ANCHOR CHART - 2 TRACK		
ANCHOR	MAX.	NO. OF ANCHOR
TYPE	SHIM	REQ.@ INTERLOCK
A	1/2"	8
B & C	3/8"	6
B & C	1/2"	8



DESIGN LOAD
 (FOR SIZES SHOWN ABOVE OR SMALLER
 AS PERMITTED BY FBC)
+80.0 PSF
-100.0 PSF



FLORIDA APPROVAL:
FL #17596



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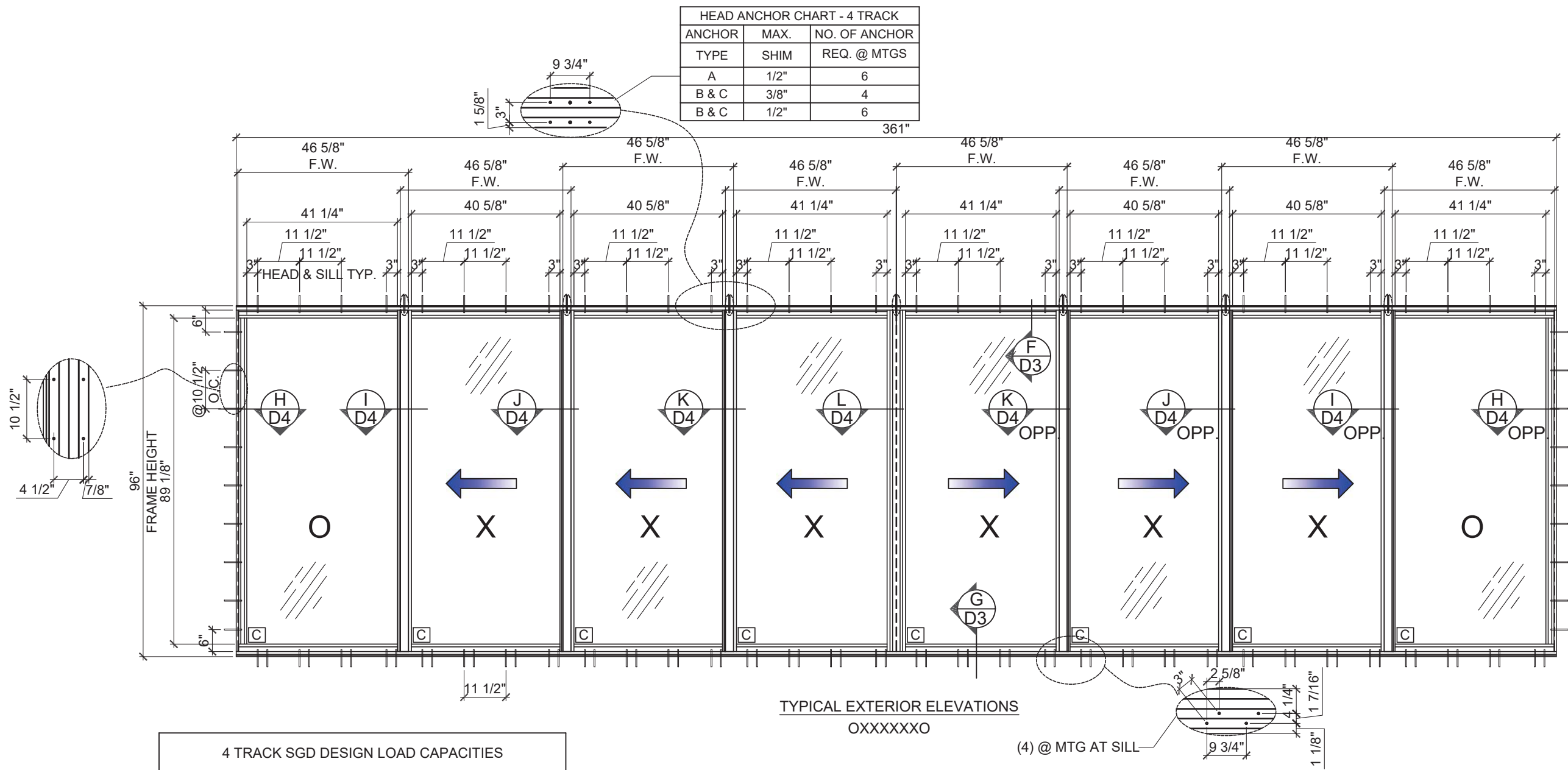
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Scale: _____

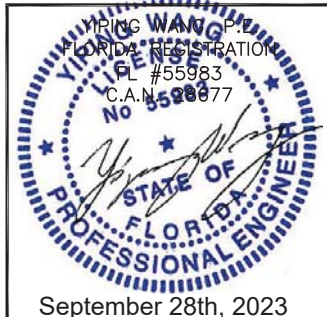
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Sheet No. **E1**

SHEET 2 OF 13



FLORIDA APPROVAL:
FL #17596



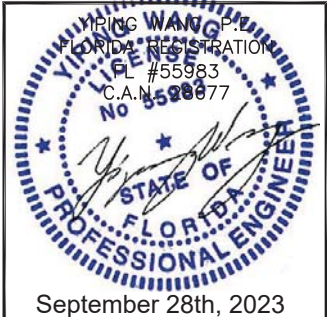
Rev. No.	Date	Drawn By	Description
R2	09.23.2023	James	UPDATE TO FEB 2023
Drawing No. AD15-16			
E2			
Sheet No. SHEET 3 OF 13			

APPROVED CONFIGURATIONS (FOUR TRACKS)

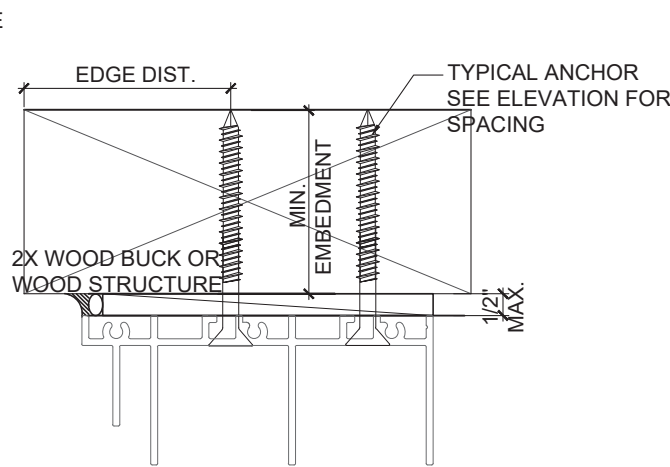
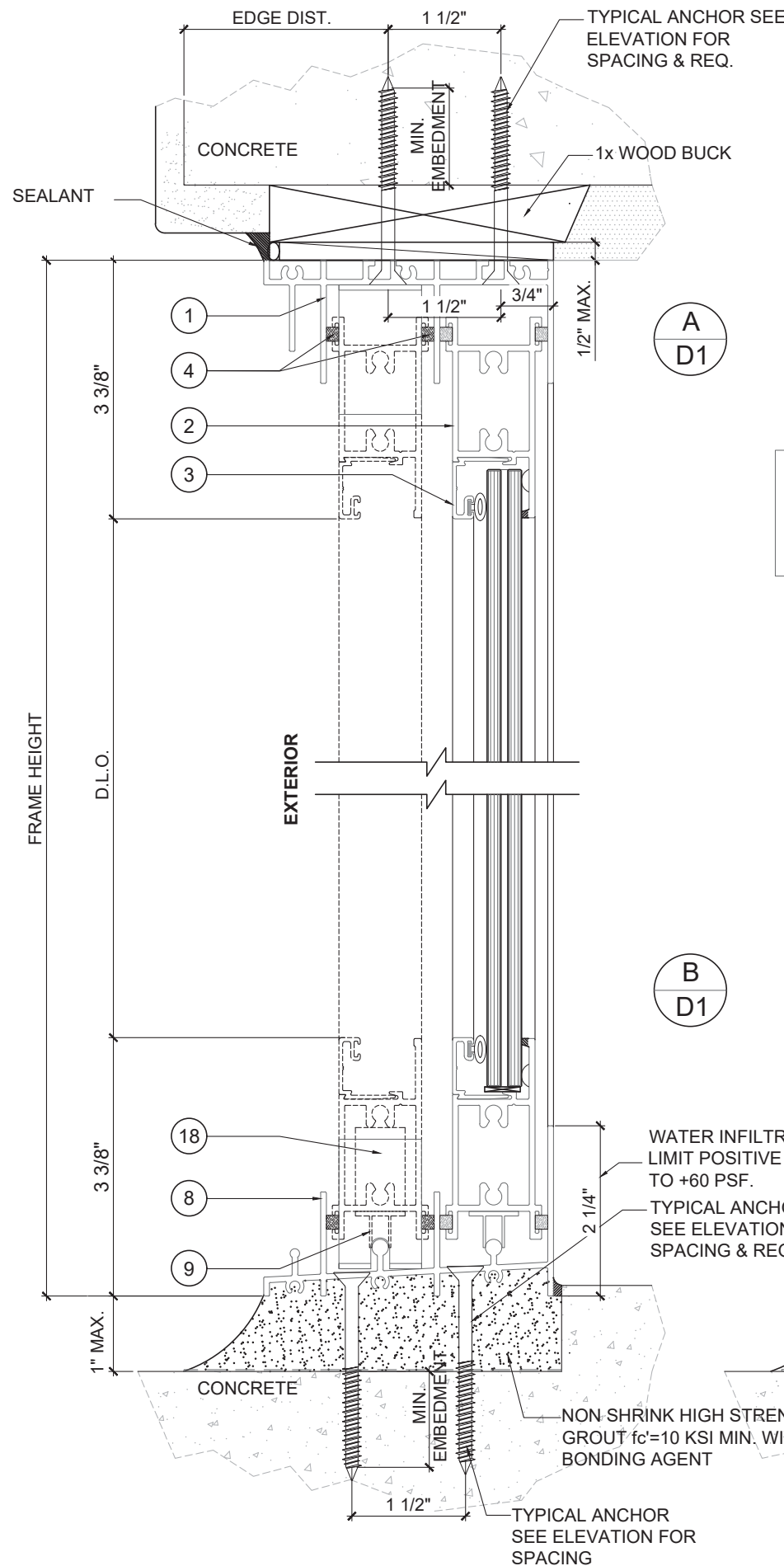


- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE SHEET 1 FOR APPROVED GLASS INFORMATION.
 3. SEE SHEET 3 FOR APPROVED SIZE AND DESIGN LOAD.
 4. SEE SHEET 5 FOR APPROVED ANCHOR TYPES. NUMBER OF ANCHORS REQUIRED SEE SHEET 2.

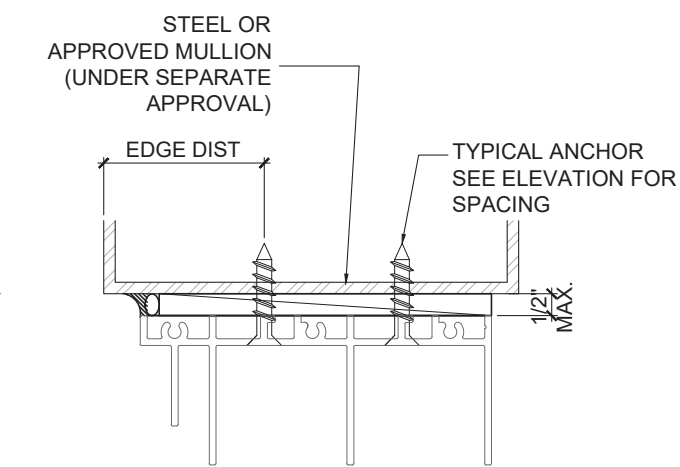
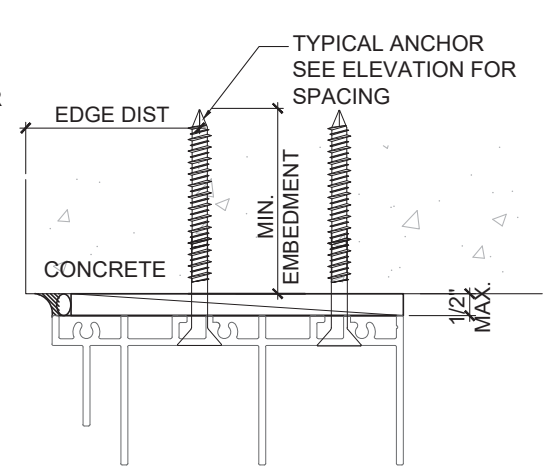
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MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PARKWAY #301 F. (305) 271-0117 MIRAMAR, FL 33027 www.MCYEngineering.com mcy@mcyengineering.com	
SERIES SG2100 SLIDING GLASS DOOR (L.M.I. & S.M.I.)	
EMC WINDOWS AND DOORS, LLC. 1356 W. 76TH STREET HIALEAH, FL 33014 TEL. (305) 283-6280 EMCWindowsDoors@gmail.com	
Drawn Date 09.23.2023	Scale
Rev. No. R2	Description UPDATE TO FEB 2023
Drawing No. AD15-16	
Configuration SHEET 4 OF 13	



1X OR 2X WOOD BUCKS AND METAL STRUCTURES NOT BY EMC WINDOWS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



TYPICAL ANCHORS FOR 2-TRACK DOOR:

(SEE ELEV. FOR SPACING)

TYPE 'A' - 1/4" ULTRACON+ BY 'DEWALT' (Fu = 164 KSI, Fy = 148 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-1/2" MIN. PENETRATION INTO WOOD
OR THRU WOOD BUCKS INTO CONC. OR MASONRY

TYPE 'B' - 1-1/4" ULTRACON + BY 'DEWALT' (Fu=164 KSI, Fy=148 KSI)
DIRECTLY INTO CONC. OR MASONRY
1 3/4" MIN. INTO CONCRETE
1 1/4" MIN. INTO HOLLOW BLOCK **(JAMB ONLY)**
1 3/4" MIN. INTO GROUT FILLED BLOCK **(JAMB ONLY)**

TYPE 'C' - 1/4" TEKS OR SELFDILLING SCREWS (GRADE 5 CRS)
(Fu=120 KSI, Fy=92 KSI)
INTO METAL STRUCTURES OR APPROVED MULLION

STEEL : 1/8" THK MIN (Fy = 36KSI MIN.)
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
(3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE

ANCHOR EDGE DISTANCES

INTO CONCRETE AND MASONRY = 2 1/2" TYPICAL,
UNLESS SPECIFIED ON DETAIL
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

WOOD AT HEAD OR JAMB SG = 0.55 MIN.
CONCRETE AT HEAD, SILL OR JAMB fc'=3050 psi MIN.
C-90 HOLLOW/FILLED BLOCK fm'=2000 psi MIN.

WEEP HOLES

W1 = 3/8" X 1 1/2" WEEP HOLES
AT 8" FROM EACH END (2) PER PANEL

SEALANT

ALL FRAME AND SASH CORNER SEAMS AND JOINTS WERE
SEALED USING SCHNEE MOREHEAD SEAM SEALER SM 5504

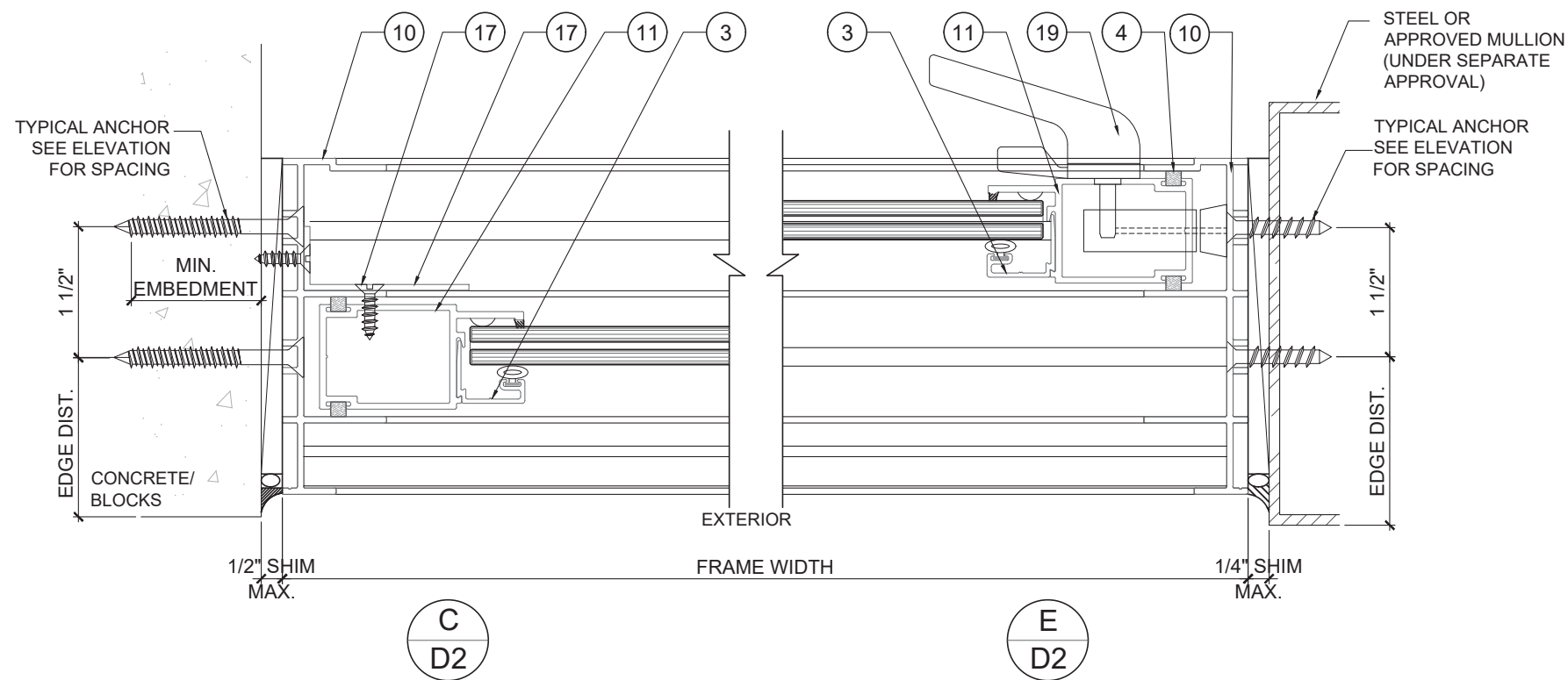
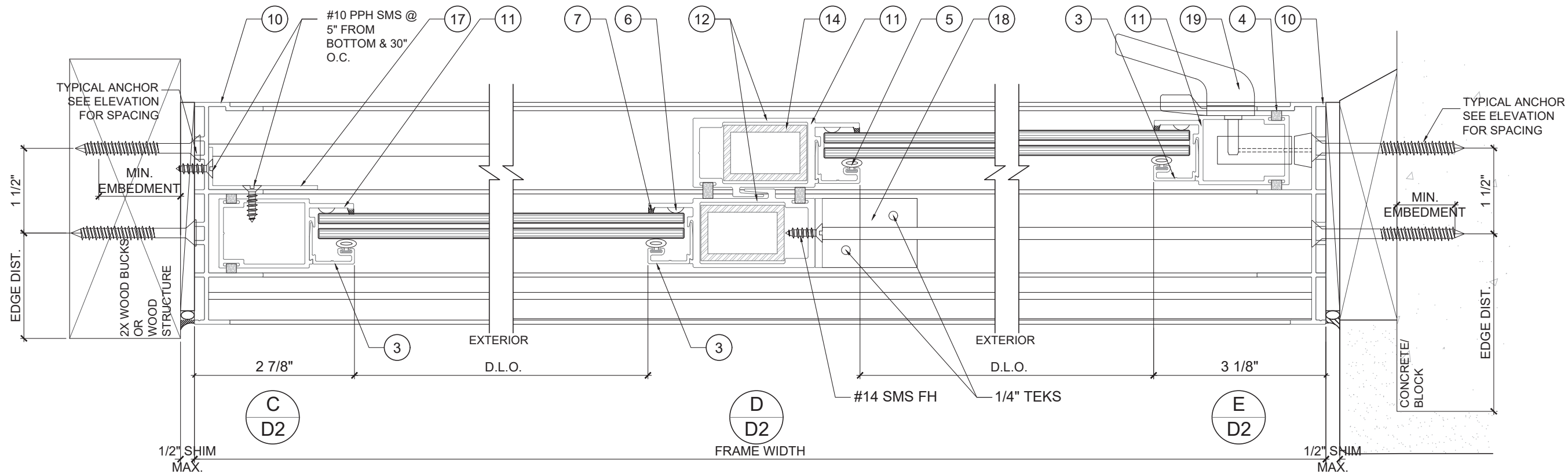
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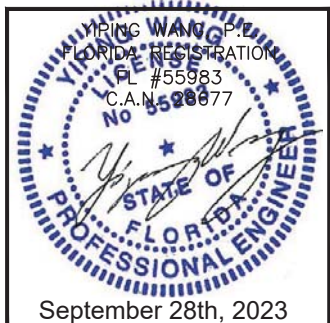
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Sheet No. D1			
SHEET 5 OF 13			



FLORIDA APPROVAL:
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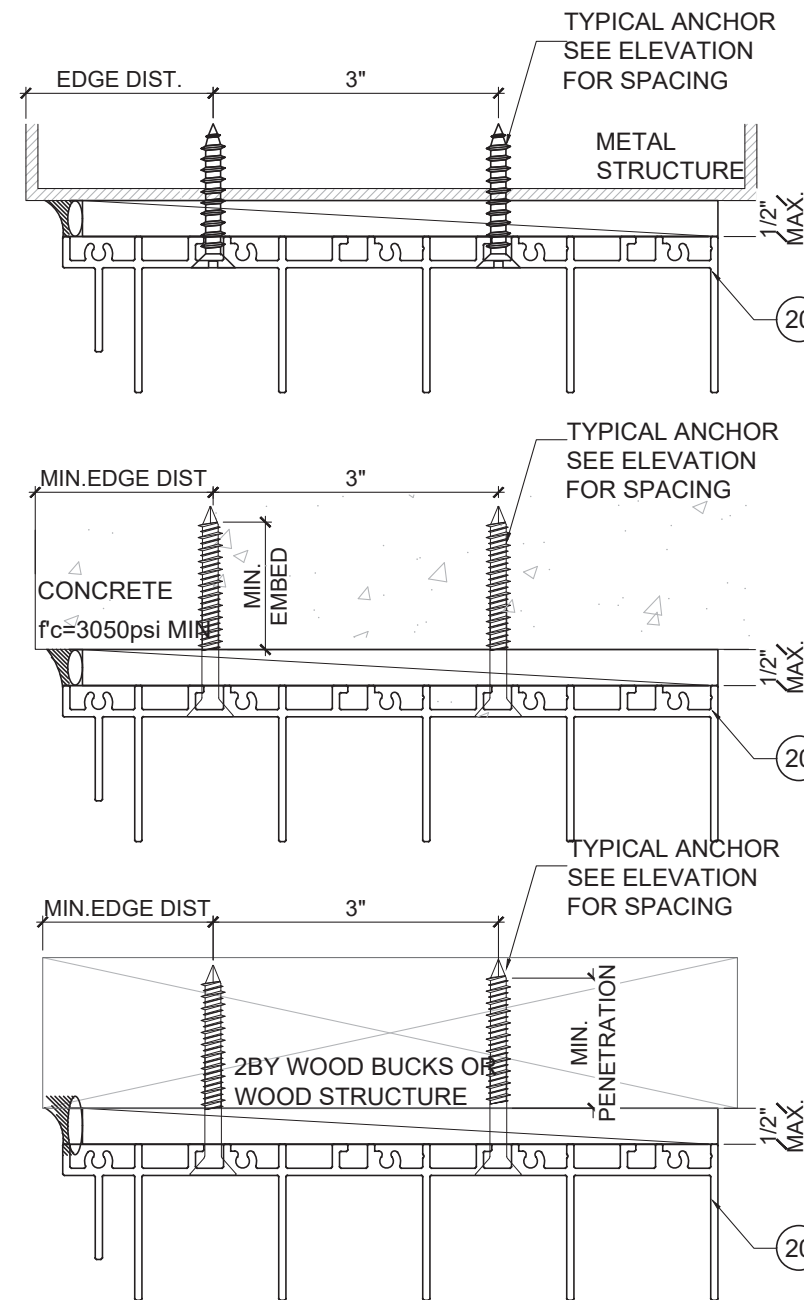
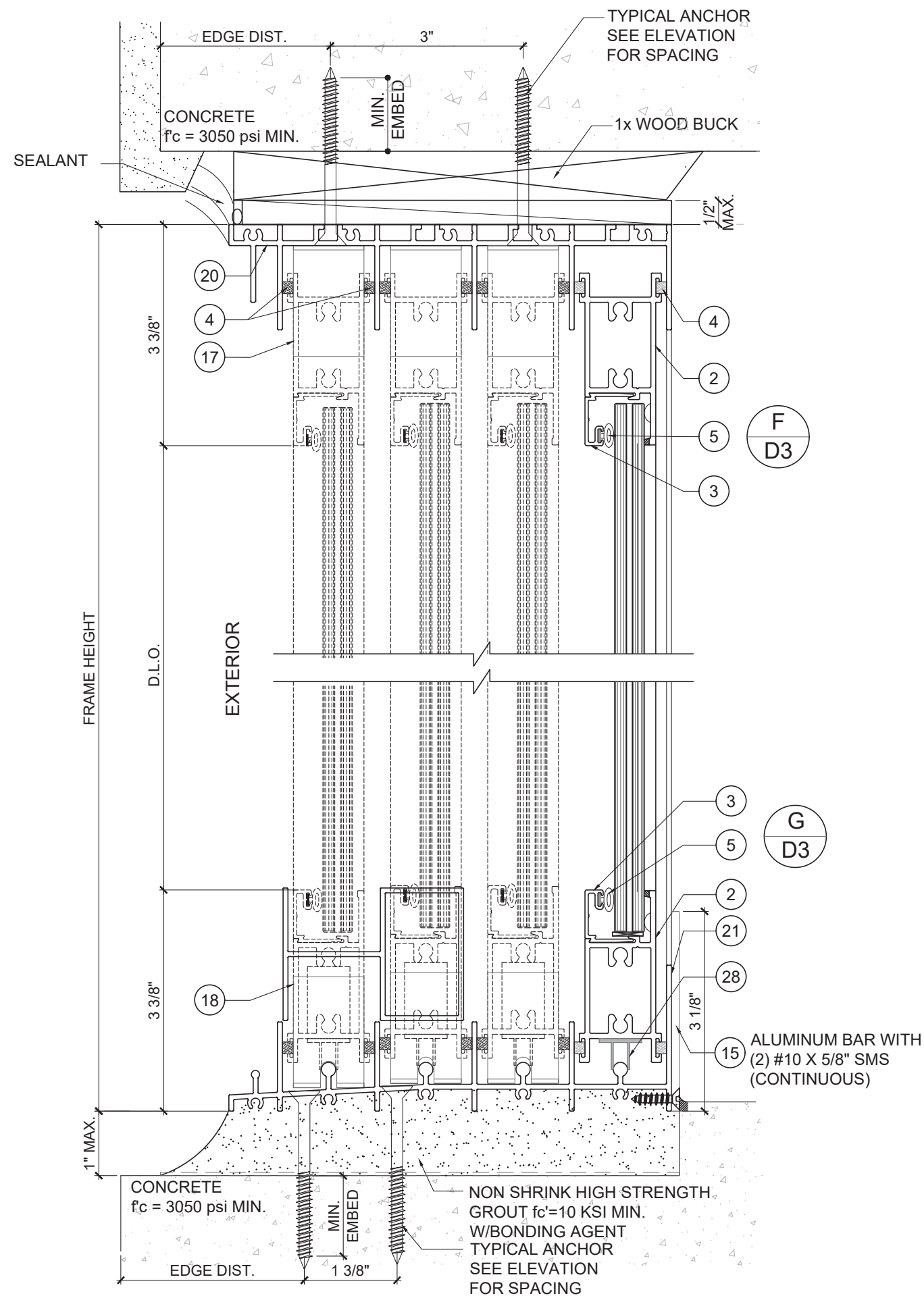


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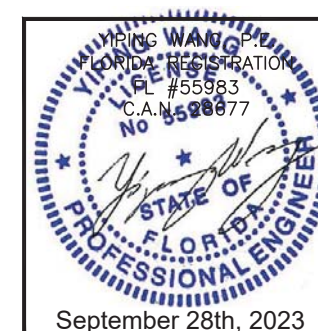
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ANCHOR OPTIONS SEE SHEET D1

1X OR 2X WOOD BUCKS AND METAL STRUCTURES NOT BY EMC WINDOWS MUST SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

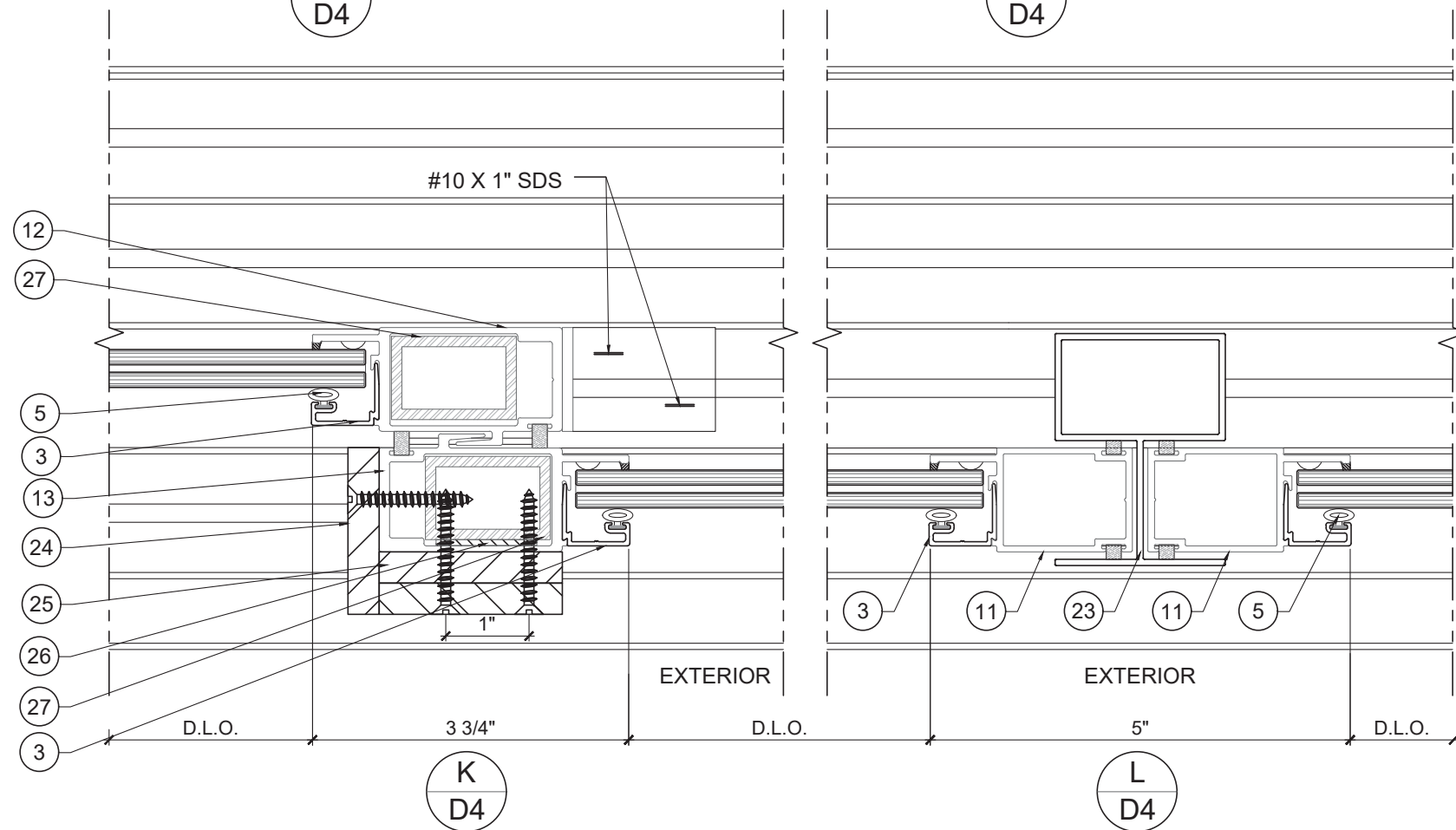
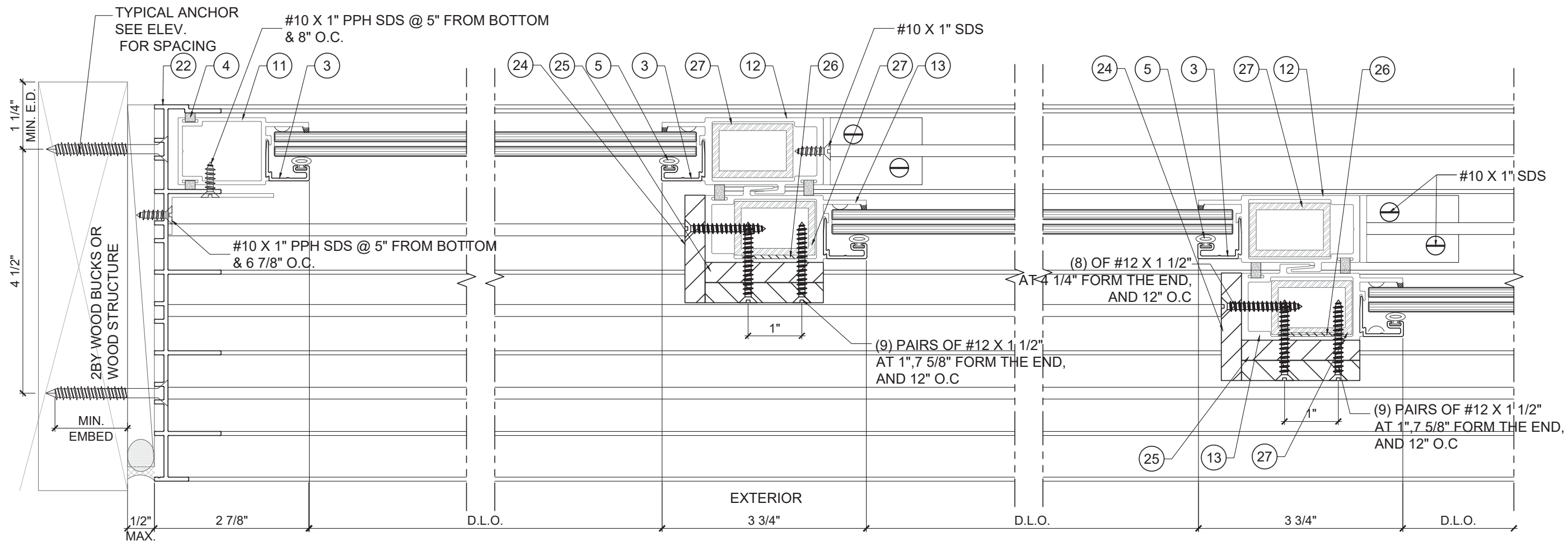
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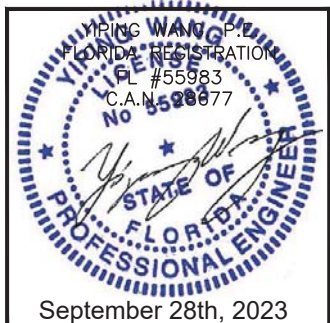
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D3			
Sheet No.			
SHEET 7 OF 13			



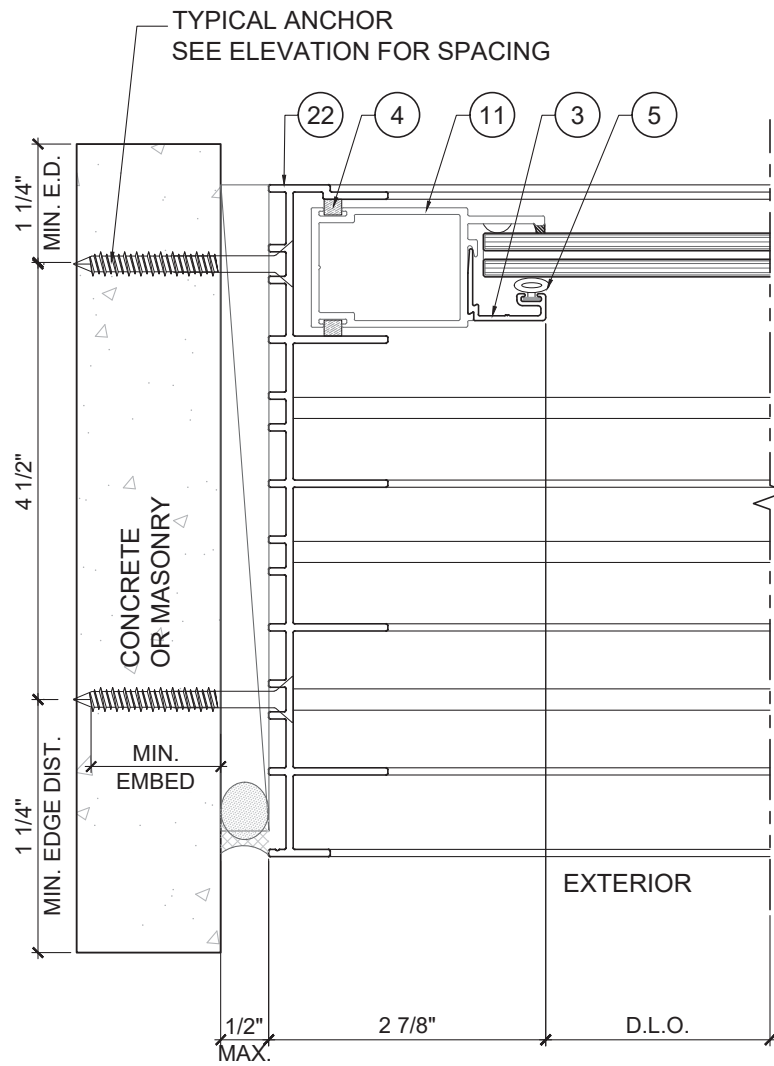
FLORIDA APPROVAL:
FL #17596



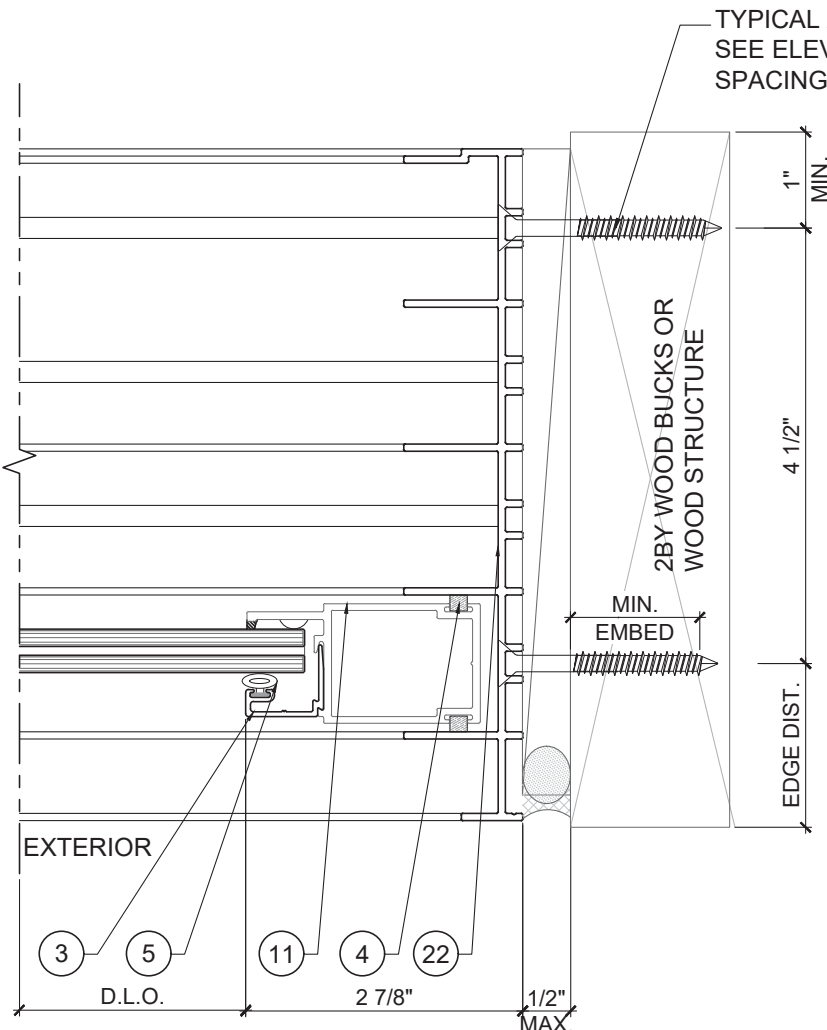
MCY ENGINEERING, INC.
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12781 MIRAMAR PARKWAY #301 F. (305)271-0117
MIRAMAR, FL 33027
www.MCYEngineering.com mcy@mcyengineering.com

SERIES SG2100 SLIDING GLASS DOOR (L.M.I. & S.M.I.)
EMC WINDOWS AND DOORS, LLC.
1356 W. 76TH STREET
HIALEAH, FL 33014
TEL. (305) 283-6280 EMCWindowsDoors@gmail.com

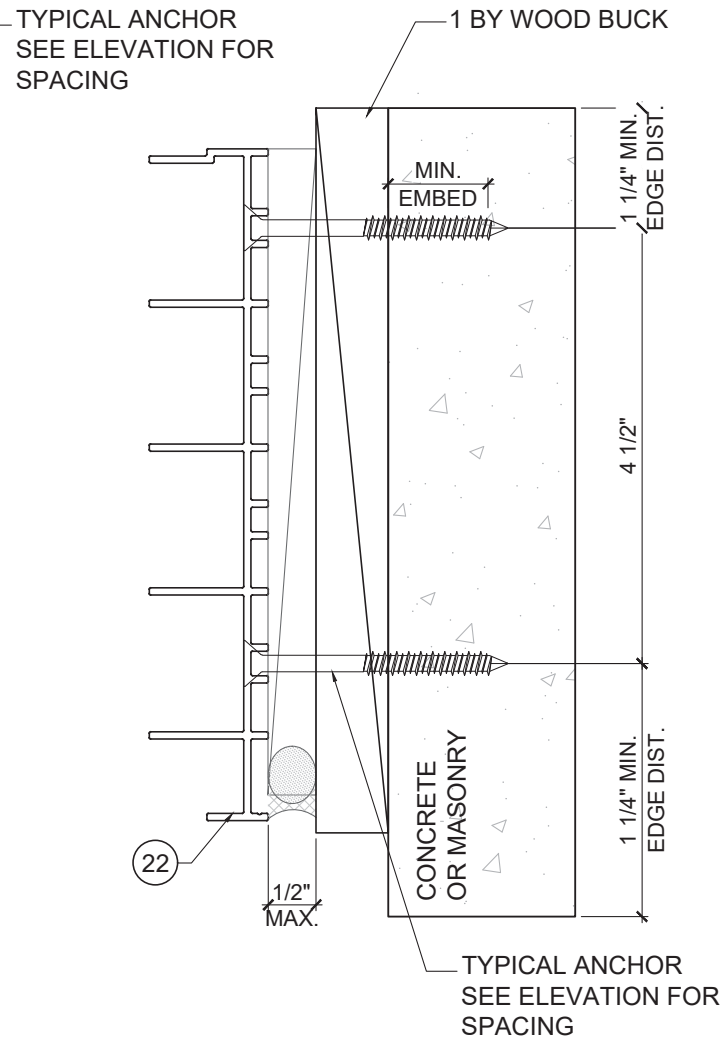
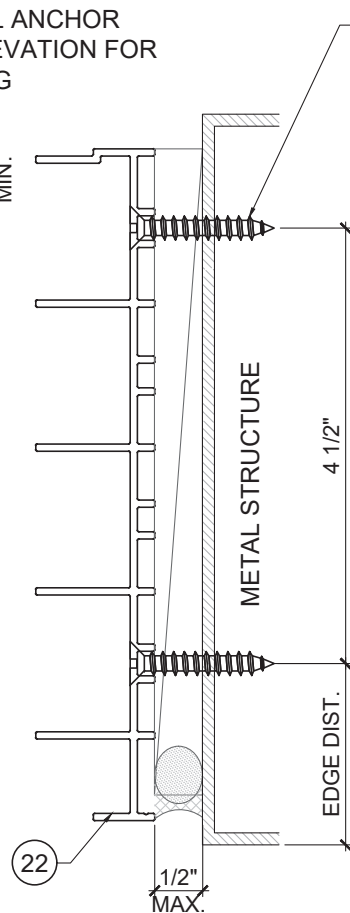
Rev. No.	Date	Drawn By	Description
R2	09.23.2023	James	UPDATE TO FBC 2023
Drawing No. AD15-16			
Sheet No. D4			
SHEET 8 OF 13			



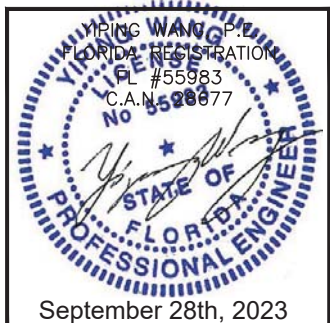
M
D5



N
D5



FLORIDA APPROVAL:
FL #17596



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R2	09.23.2023	James	UPDATE TO FBC 2023
DRAFTING NO. AD15-16			
D5			
Sheet No. SHEET 9 OF 13			

BILL OF MATERIALS

ITEM #	PART #	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	SW-43124	ALUM. FRAME HEAD	ALUM. 6063-T5	EMC WINDOWS AND DOORS, LLC.
2	SW-43127	ALUM. PANEL TOP & BOTTOM RAIL	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC.
3	SW-43128	ALUM. GLAZING STOP	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC.
4	ULTRAPILE	WOOL PILE	WOOL	ULTRAFAB
5	E201	BULB VINYL	VINYL	ULTRAFAB
6	-	SPACER BUTTON	RUBBER	ULTRAFAB
7	DOW 899	STRUCTURAL SILICONE	SILICONE	DOW CORNING 899
8	SW-43125	ALUM. FRAME SILL TRACK	ALUM. 6063-T5	EMC WINDOWS AND DOORS, LLC.
9	39.10	ROLLER ASSEMBLY	STEEL	TRUTH
10	SW-43123	ALUM. FRAME JAMB	ALUM. 6063-T5	EMC WINDOWS AND DOORS, LLC.
11	SW-43126	ALUM. PANEL JAMB	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC.
12	SW-43130	ALUM. PANEL INTERLOCK	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC.
13	SW-43129	ALUM. PANEL INTERLOCK INVERTED	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC.
14	1x1-1/2X1/8"	STEEL TUBE REINFORCEMENT	HRB66	-
15	.119X2.750	WATER BAR	ALUM. 6063-T5	EMC WINDOWS AND DOORS, LLC.
16	SM 5504	JOINT SEALER	SEAM SEALER	SCHNEE MORE HEAD SEAM SELER
17	2.000 X .750	SHEAR ANGLE 1 AT FIXED PANEL JAMB 30" O.C.	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC. WITH #10X5/8" PPH SMS
18	2.000 X 1.750	SHEAR ANGLE 2	ALUM. 6063-T5	EMC WINDOWS AND DOORS, LLC.
19	2992	PANEL HOOK LOCK AND HANDLE	METAL	TRUTH
20	-	HEAD (4 TRACK)	ALUM. 6063-T5	EMC WINDOWS AND DOORS, LLC.
21	-	SILL (4 TRACK)	ALUM. 6063-T5	EMC WINDOWS AND DOORS, LLC.
22	-	JAMB (4 TRACK)	ALUM. 6063-T5	EMC WINDOWS AND DOORS, LLC.
23	-	ASTRAGAL	ALUM. 6063-T6	EMC WINDOWS AND DOORS, LLC.
24	-	FLAT BAR 3/8" X 2"	ALUM. 6061-T6511	-
25	-	FLAT BAR 3/8" X 2.20"	ALUM. 6061-T6511	-
26	-	FLAT BAR 0.065" X 1.21"	ALUM. 6063-T5	-
27	-	1"X1 ½"X⅛" ALUM. REIN. TUBE	ALUM. 6063-T5	-
28	-	ROLLER ASSEMBLY	STEEL	-
29	-	SETTING BLOCKS, DUROMETER 70±5	EPDM	-

FLORIDA APPROVAL:

FL #17596



September 28th, 2023

SERIES SG2100 SLIDING GLASS DOOR (L.M.I. & S.M.I.)

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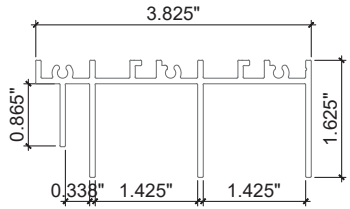
MCY ENGINEERING, INC.

GLAZING CONSULTANTS

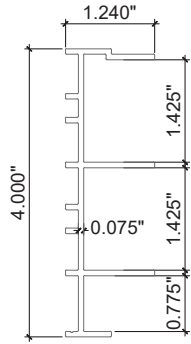
12781 MIRAMAR PARKWAY #301 F: (305)271-0117
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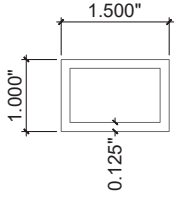
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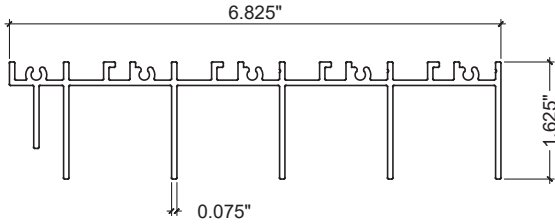
1 FRAME HEAD
6063-T5



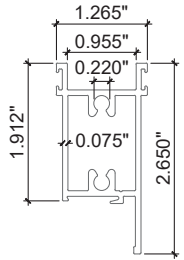
10 FRAME JAMB
6063-T5



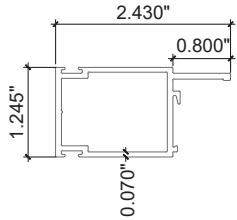
14 REINFORCEMENT TUBE
STEEL



20 HEAD (4 TRACK)
6063-T5



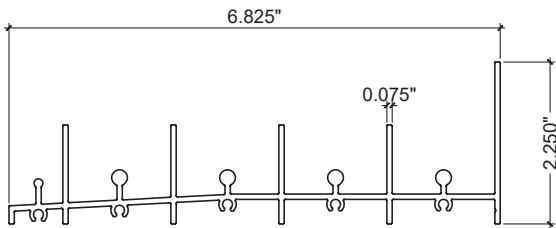
2 PANEL TOP/BOTTOM
6063-T6



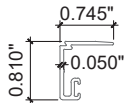
11 PANEL JAMB
6063-T6



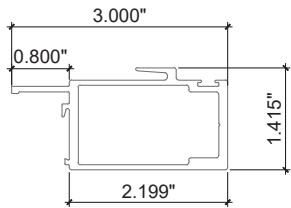
15 WATER BAR
6063-T5



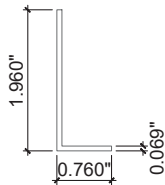
21 SILL (4 TRACK)
6063-T5



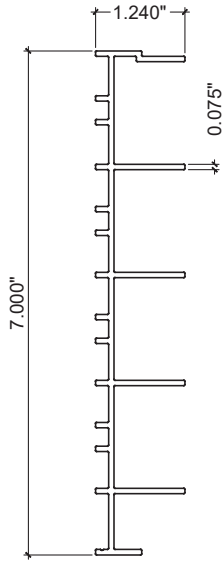
3 GLAZING STOP
6063-T5



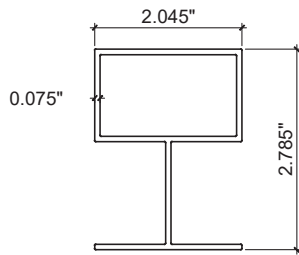
12 PANEL INTERLOCK
6063-T6



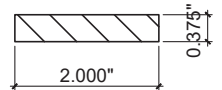
17 SHEAR ANGLE 1
6063-T5



22 JAMB (4 TRACK)
6063-T5



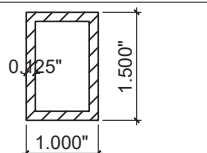
23 ASTRAGAL
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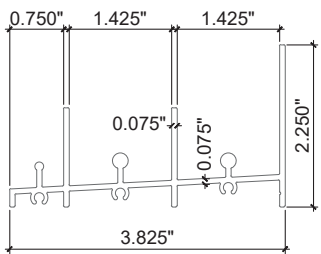
24 FLAT BAR
6061-T6511



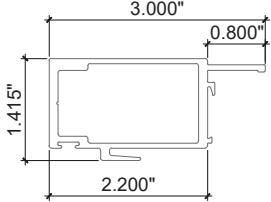
25 FLAT BAR
6061-T6511



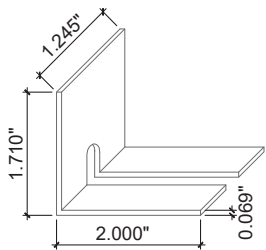
27 ALUM. REIN. TUBE
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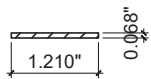
8 FRAME SILL TRACK
6063-T5



13 PANEL INTERLOCK INVERTED
6063-T6

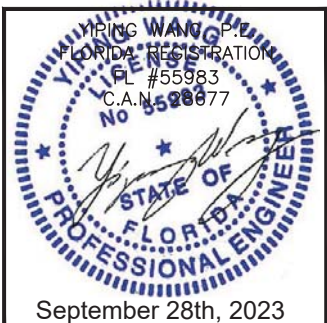


18 SHEAR ANGLE 2
6063-T5



26 FLAT BAR
6063-T5

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Rev. No.	Date	Drawn By	Description
R2	09.23.2023	James	UPDATE TO FCC 2023

Drawn Date
09.23.2023

Scale

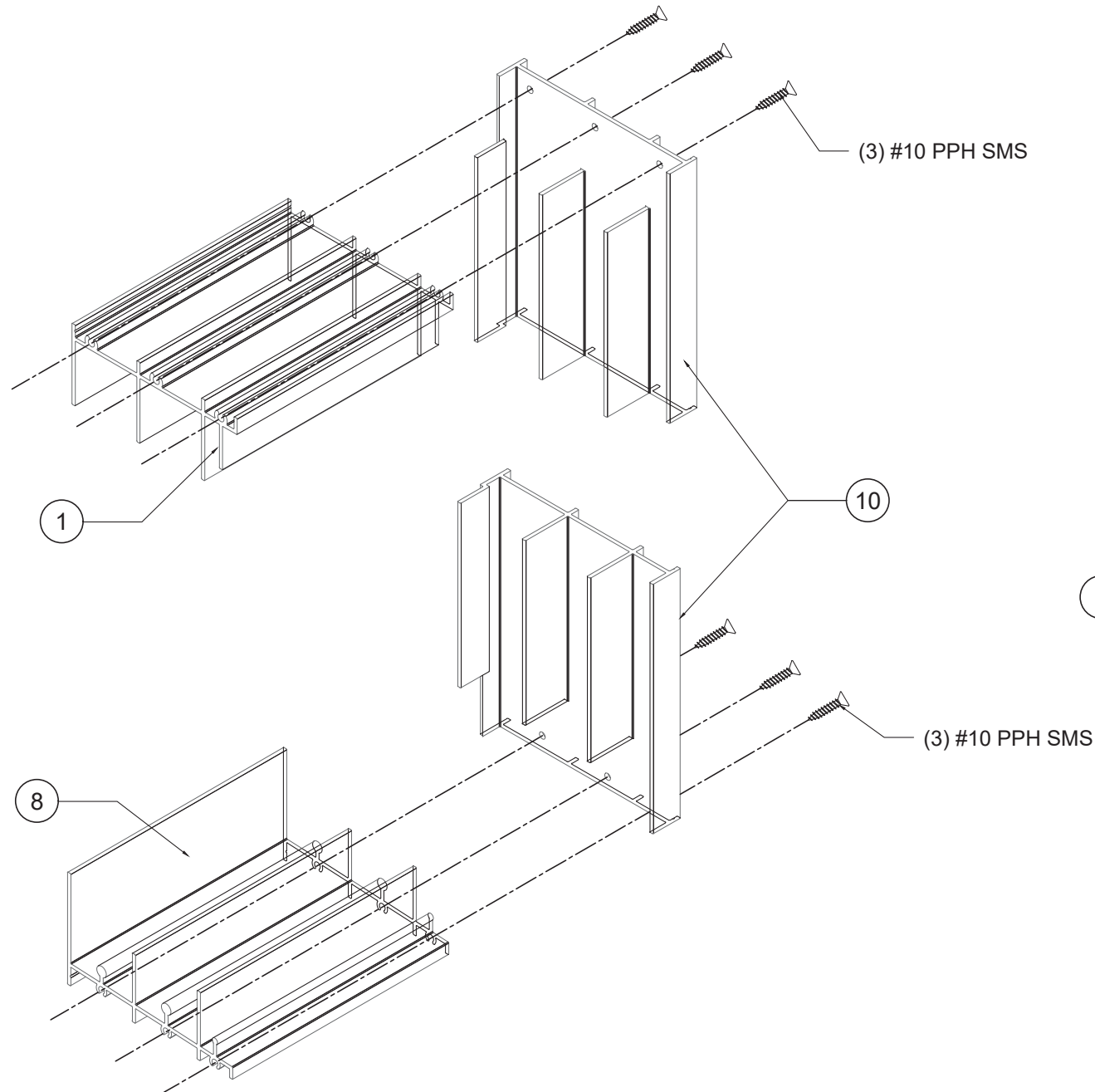
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AD15-16

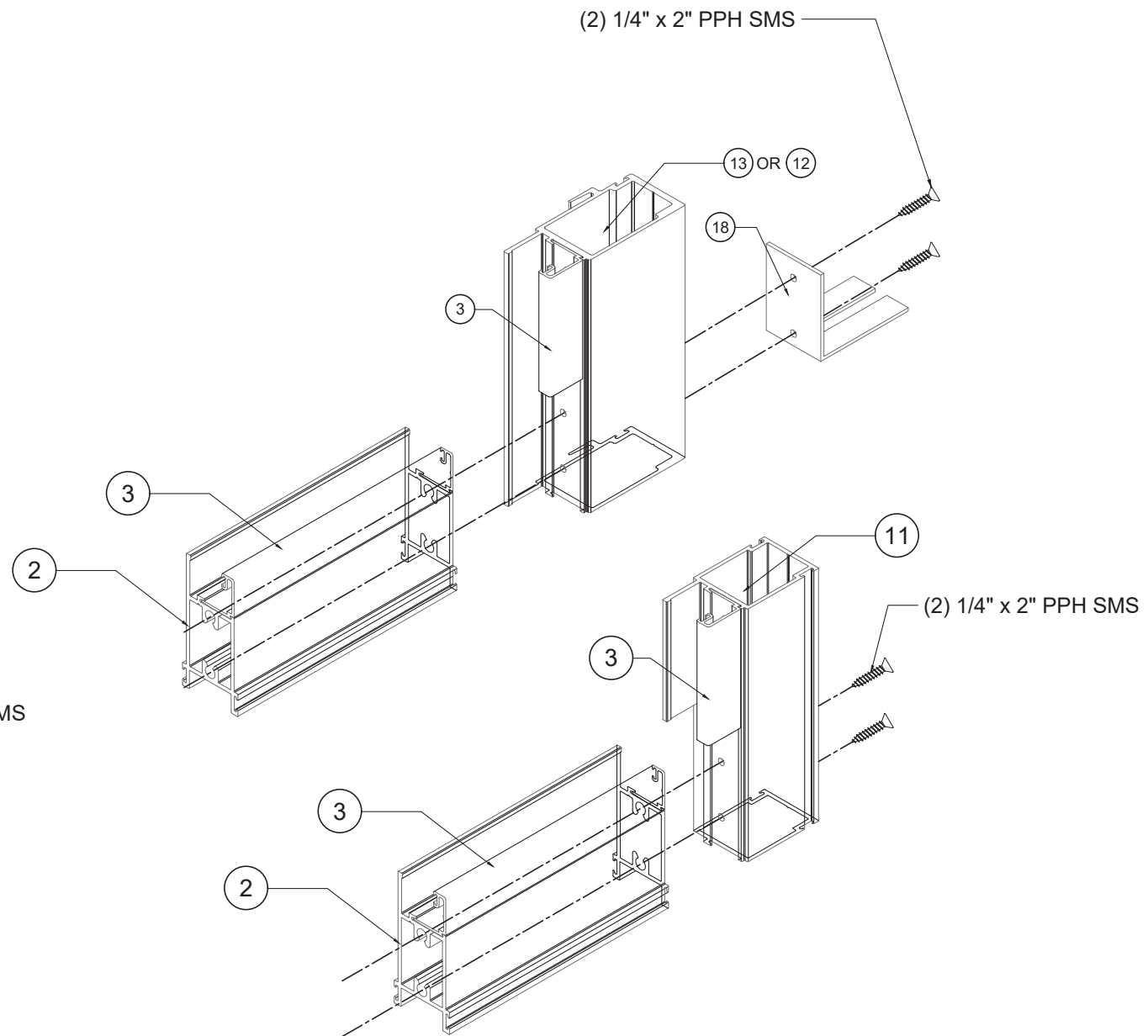
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Sheet No.

SHEET 11 OF 13

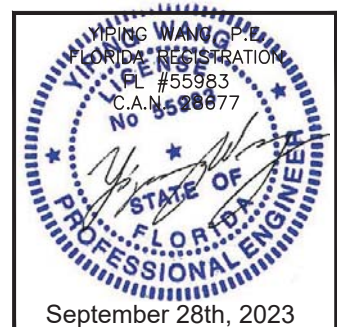


**JAMB CONNECTION
TO FRAME HEAD & SILL**



PANEL CONNECTION

FLORIDA APPROVAL:
FL #17596

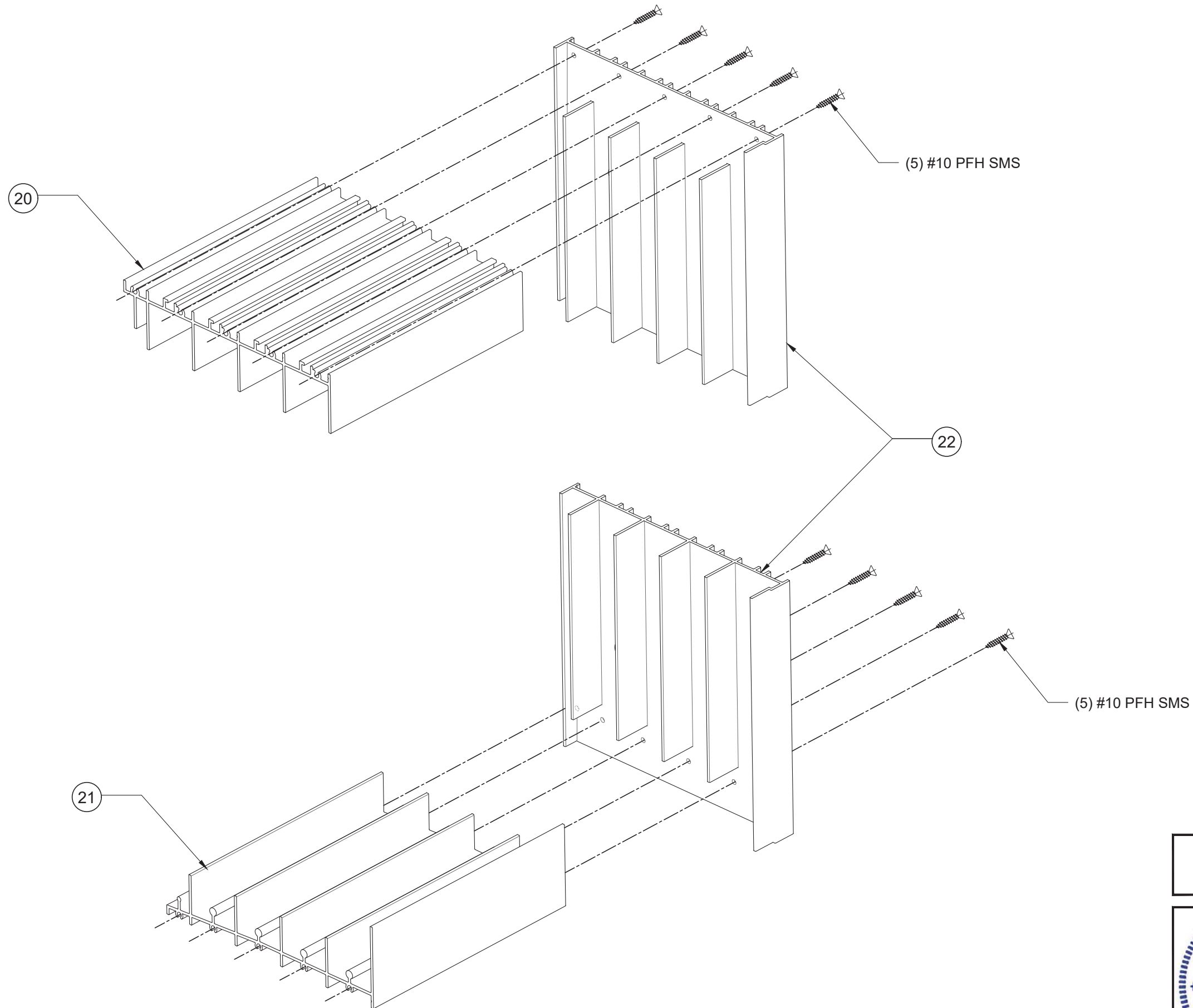


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R2	09.23.2023	James	UPDATE TO FBC 2023
DRAWING NO. AD15-16			
ASSEMBLE			
Sheet No. SHEET 12 OF 13			



**JAMB CONNECTION
TO FRAME HEAD & SILL**

FLORIDA APPROVAL:
FL #17596

September 28th, 2023

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SERIES SG2100 SLIDING GLASS DOOR (L.M.I. & S.M.I.)			
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Rev. No.	Date	Drawn By	Description
R2	09.23.2023	James	UPDATE TO FBC 2023
Drawn Date 09.23.2023		Scale	
DRAWING NO. AD15-16			
ASSEMBLE			
Sheet No. SHEET 13 OF 13			