

ES WINDOWS, INC.

SERIES SGD 2020T SLIDING GLASS DOOR LARGE AND SMALL MISSILE IMPACT

DOORS RATED FOR LARGE AND SMALL MISSILE IMPACT.
IMPACT SHUTTERS ARE NOT REQUIRED.

SERIES SGD 2020T SLIDING GLASS DOOR

APPLICABLE EGRESS REQUIREMENTS PER FBC TO BE REVIEWED BY BUILDING OFFICIAL.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020)/ 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

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.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020)/8TH EDITION (2023) SECTION AS APPLICABLE.

METAL STRUCTURES 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 7-16/ 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.

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

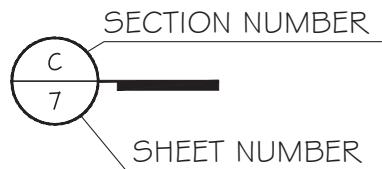
INSTRUCTIONS:

USE CHARTS AS FOLLOWS

- STEP 1 DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-16/ ASCE 7-22 STANDARD.
- STEP 2 SEE SHEET E1 TO E3 FOR TYPICAL ELEVATIONS FOR SGD WITH 4, 3 AND 2 TRACKS. SEE SHEET E4 FOR SGD WITH 90 DEGREE CORNER. SEE APPROVED CONFIGURATIONS ON SHEETS E5 THROUGH E10.
- STEP 3 SEE SHEET G1 FOR GLASS TYPE AND CAPACITIES. SEE CHART ON SHEET K1 FOR INTERLOCK OPTIONS AND APPROVED DESIGN LOAD.
- STEP 4 FOR JAMB AND POCKET ANCHOR, SEE OPTIONS AND SPACING ON SHEETS J1 AND J2. HEAD & SILL ANCHOR OPTION SEE SHEET A1 AND LAYOUT ON SHEET E1 TO E4. ANCHOR LOAD CAPACITY SEE CHART ON SHEET A2
- STEP 5 THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 4 SHALL APPLY TO ENTIRE SYSTEM.

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



FL #40525.1

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.

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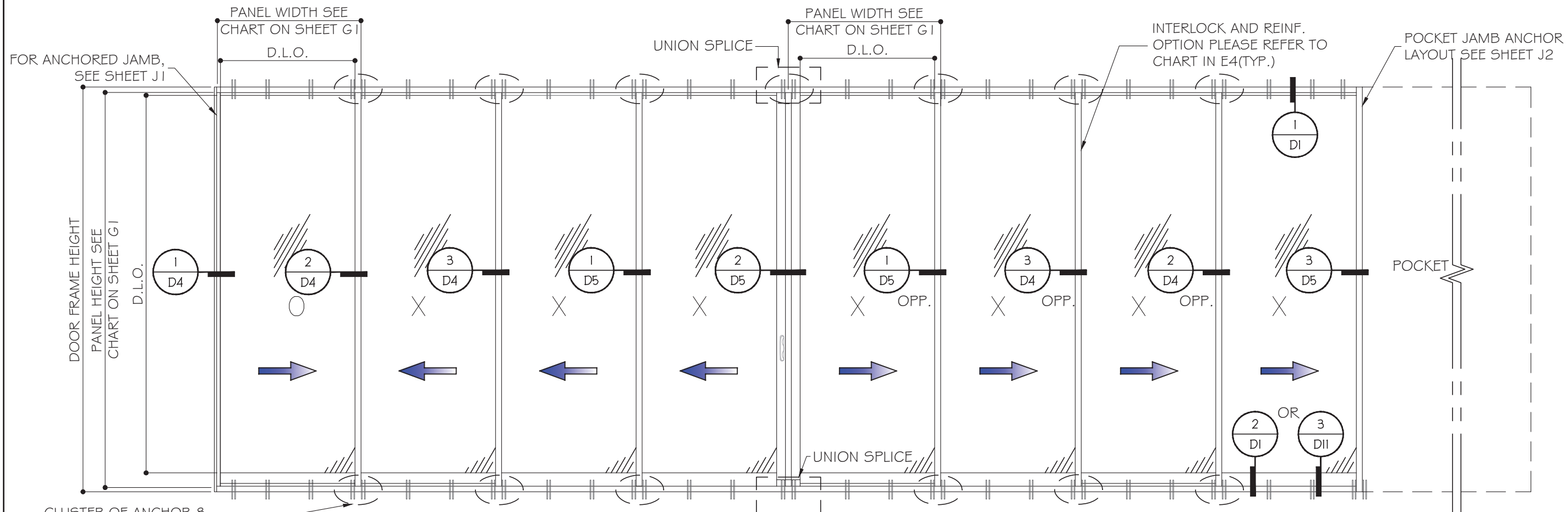
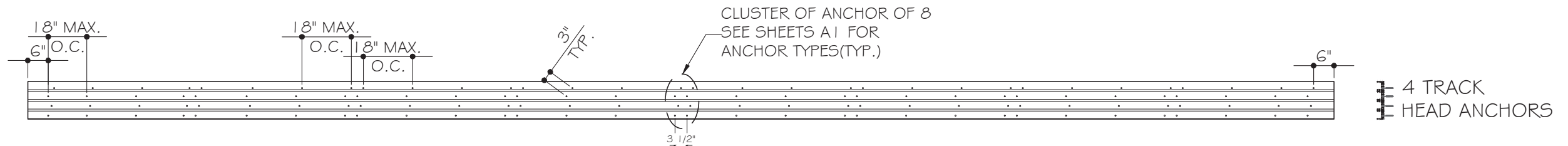
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Drawn Date: 09.14.2023 Scale: AS SHOWN

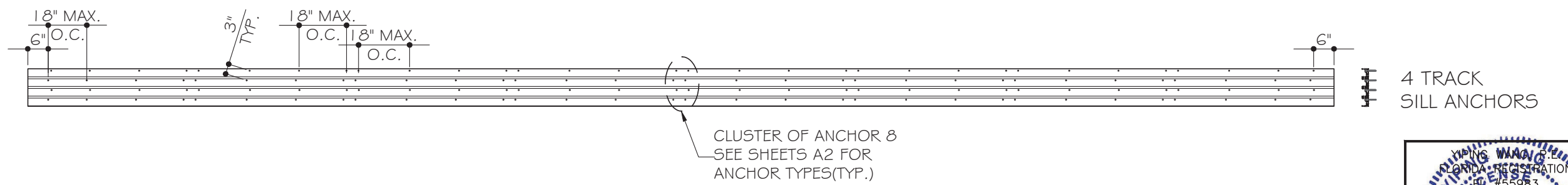
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COVER

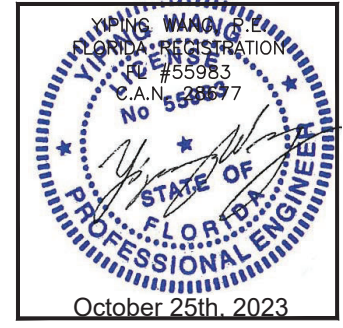
Sheet No. 01 OF 35



TYPICAL EXTERIOR ELEVATIONS (OXXXXXXP)
 (SEE SHEET E5 TO E6 FOR APPROVED CONFIGURATIONS)
 (SEE CHART ON G1 & K1 FOR CAPACITIES BASED ON GLASS & INTERLOCK OPTIONS)



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
 PANEL HEIGHT = FRAME HEIGHT - 2 1/16"
 D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9 1/8" OR PANEL HEIGHT - 6 7/16"
 D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4 1/16"



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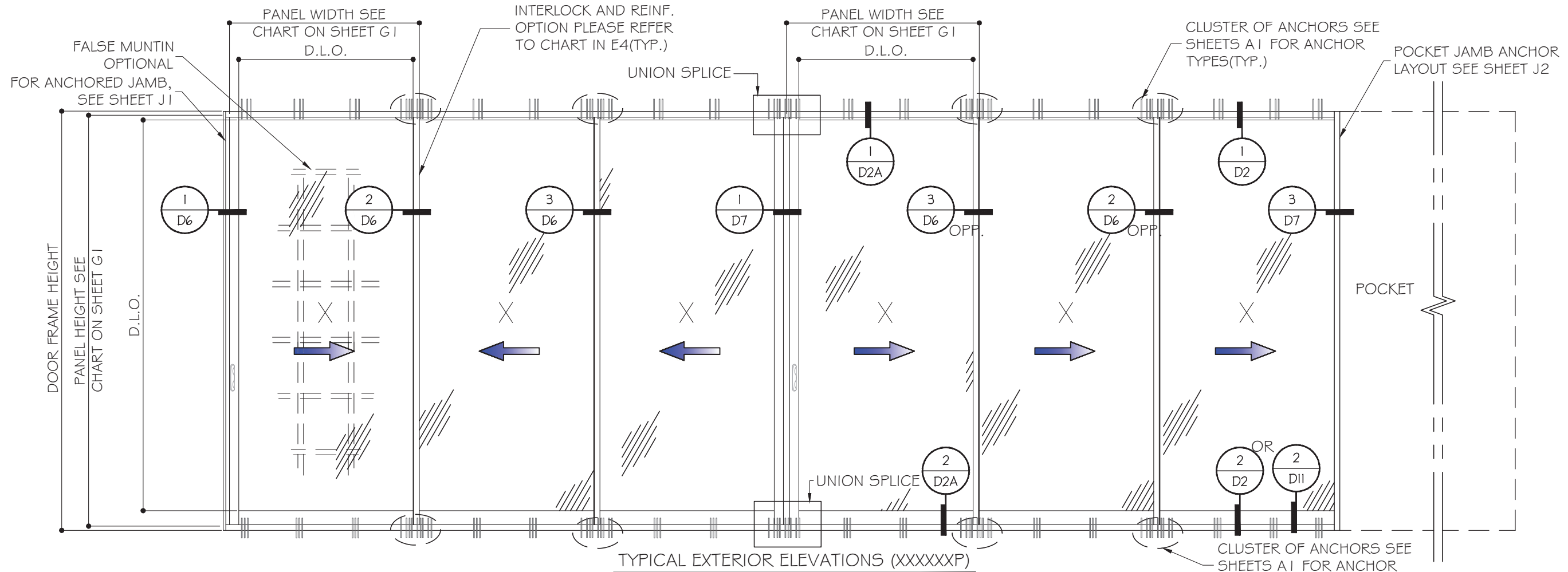
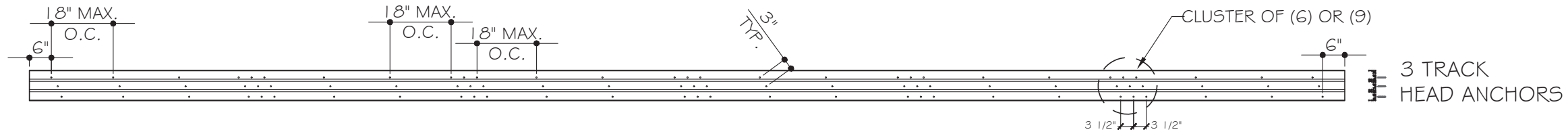
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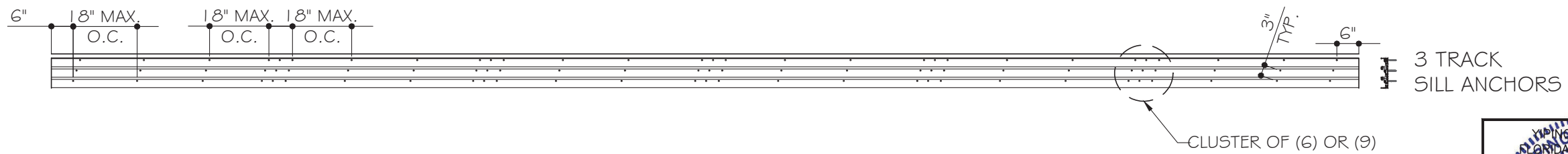
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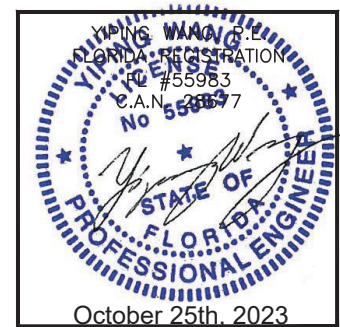
Sheet No. **E1**
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TYPICAL EXTERIOR ELEVATIONS (XXXXXXP)
 (SEE SHEET E7 TO E8 FOR APPROVED CONFIGURATIONS)
 (SEE CHART ON G1 & K1 FOR CAPACITIES BASED ON GLASS & INTERLOCK OPTIONS)



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
 PANEL HEIGHT = FRAME HEIGHT - 2 1/16"
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 D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4 1/16"



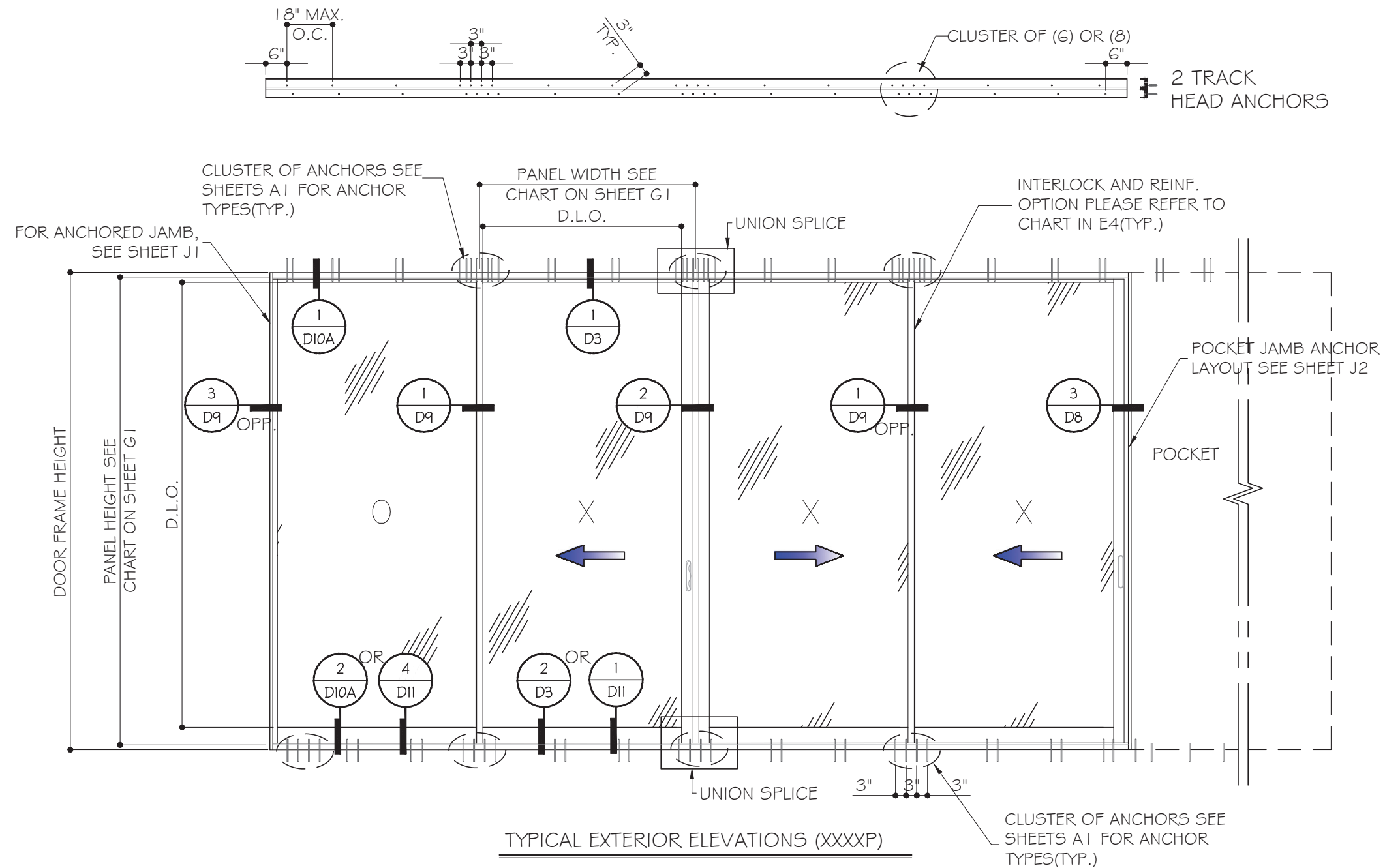
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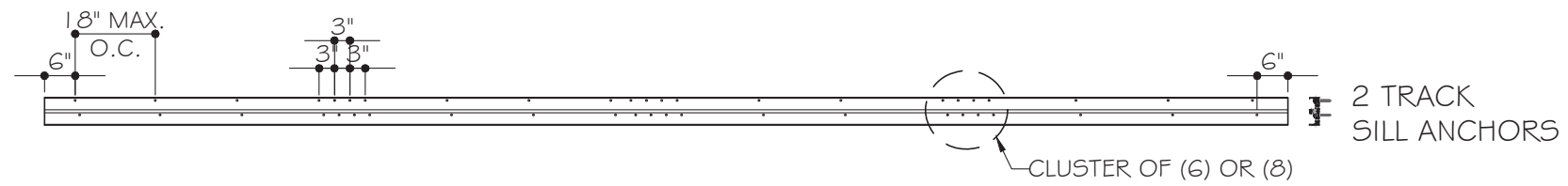
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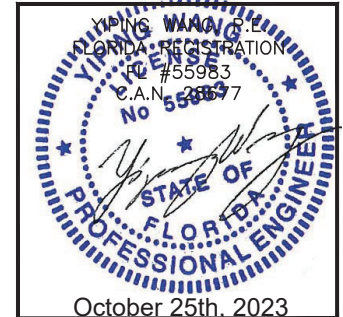


TYPICAL EXTERIOR ELEVATIONS (XXXXP)

(SEE SHEET E9 TO E10 FOR APPROVED CONFIGURATIONS)
 (SEE CHART ON G1 & K1 FOR CAPACITIES BASED ON GLASS & INTERLOCK OPTIONS)



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
 PANEL HEIGHT = FRAME HEIGHT - 2 1/16"
 D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9 1/8" OR PANEL HEIGHT - 6 7/16"
 D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4 1/16"



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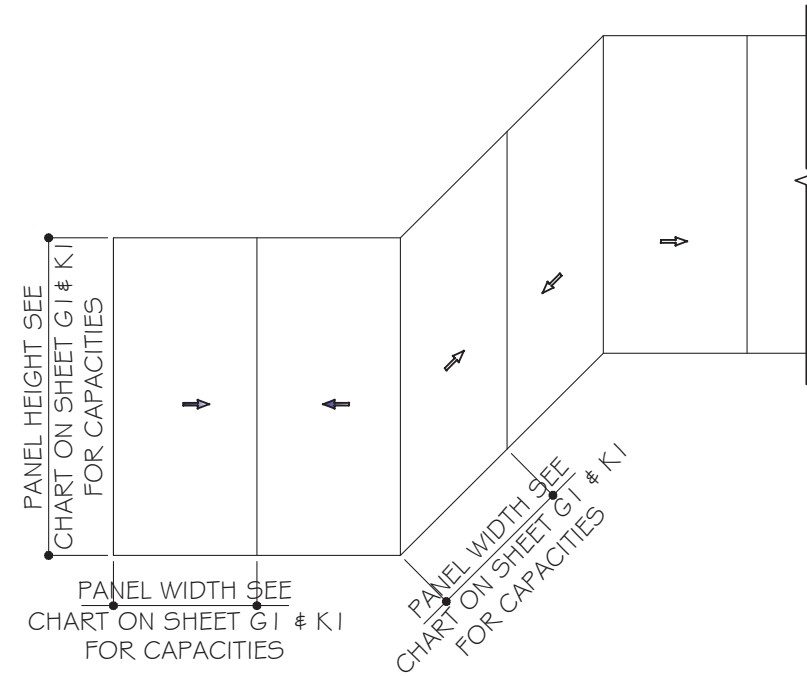
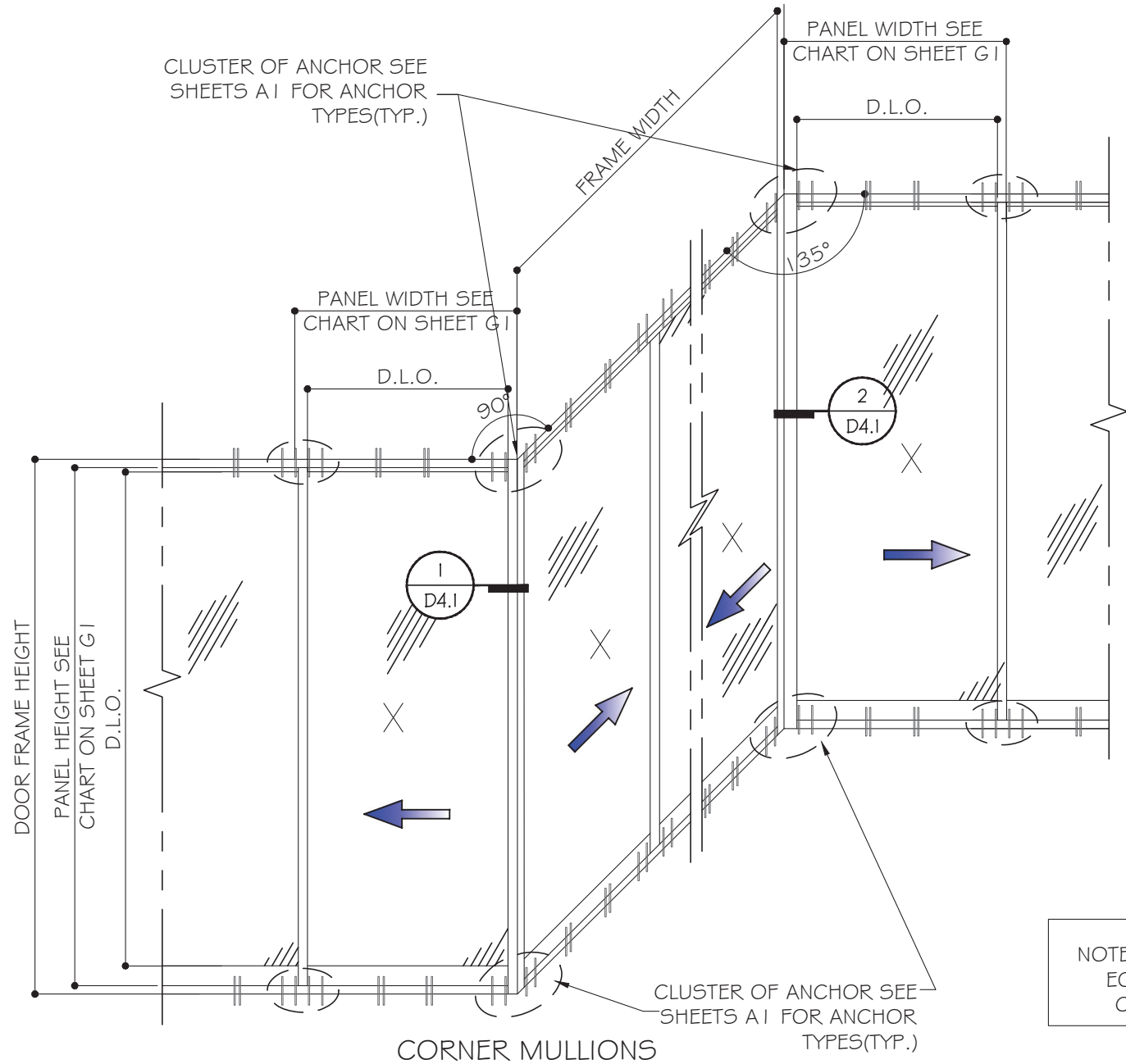
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Sheet No. E3

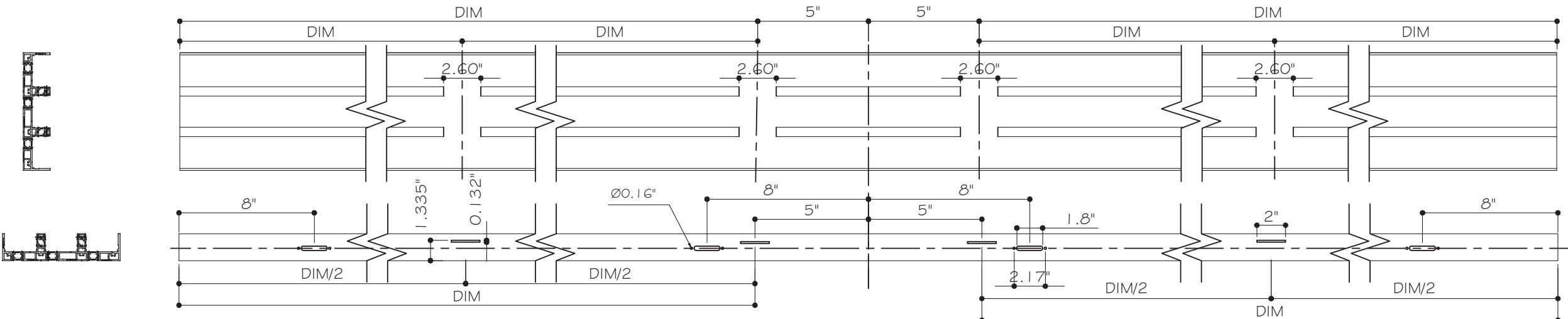
October 25th, 2023

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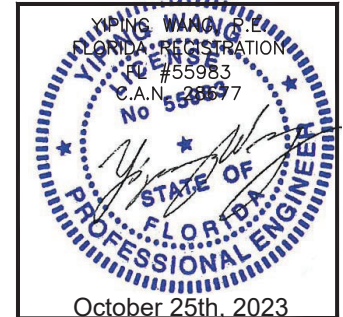


NOTE: CAPACITY FOR SGD WITH EQ WIDTH(W) AND EQUAL LOAD AT BOTH SIDES. FOR UNEQUAL CONDITIONS TO BE CHECKED SEPARATELY.

PANEL HEIGHT = FRAME HEIGHT - 2 11/16"



TYPICAL WEEP HOLE LAYOUT



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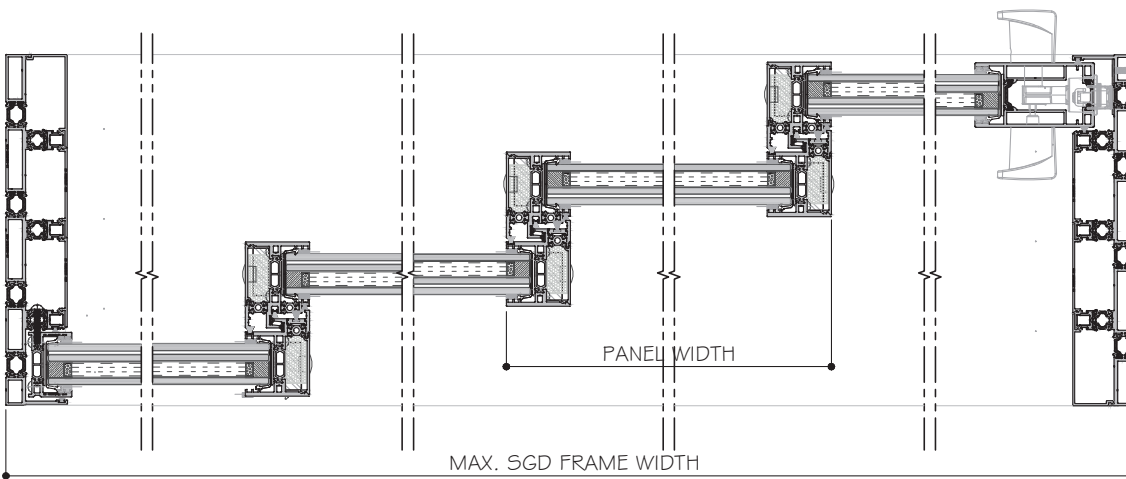
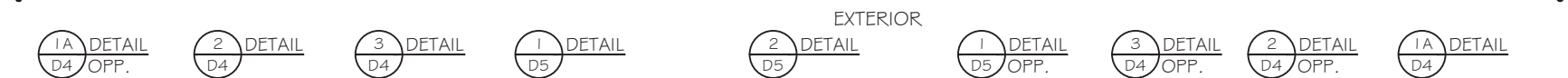
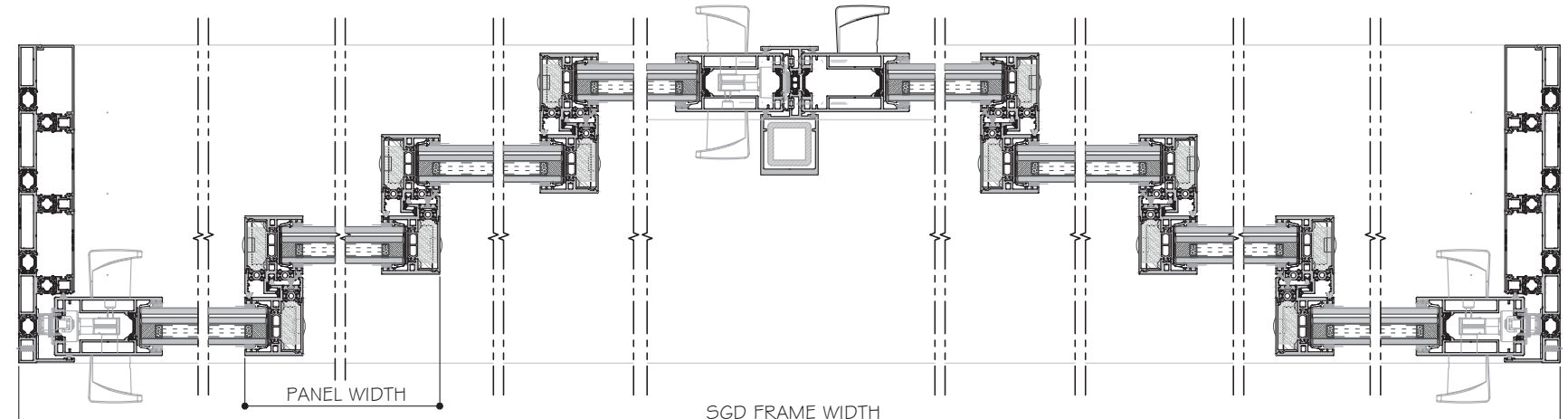
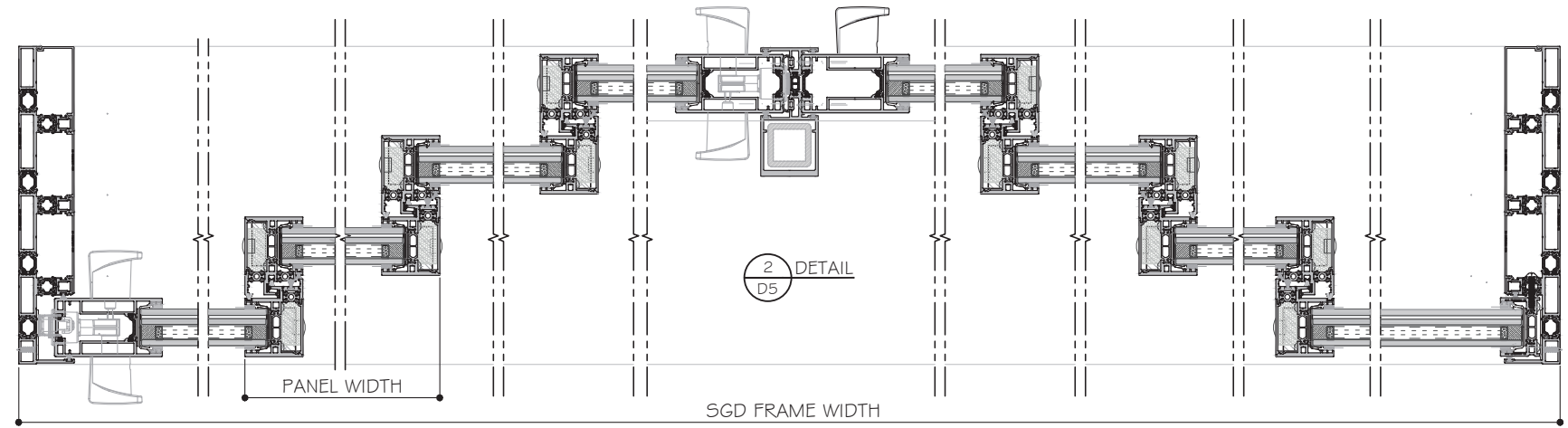
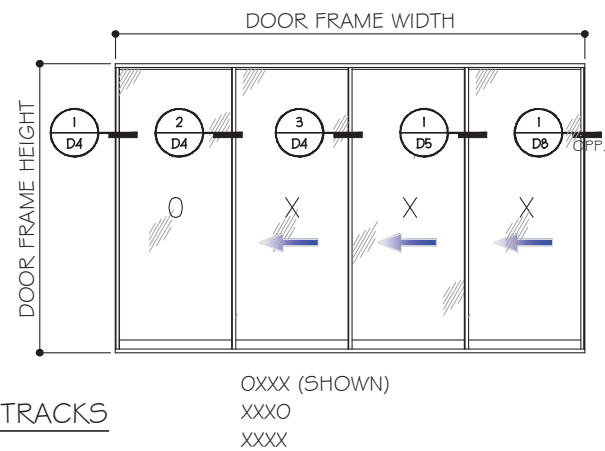
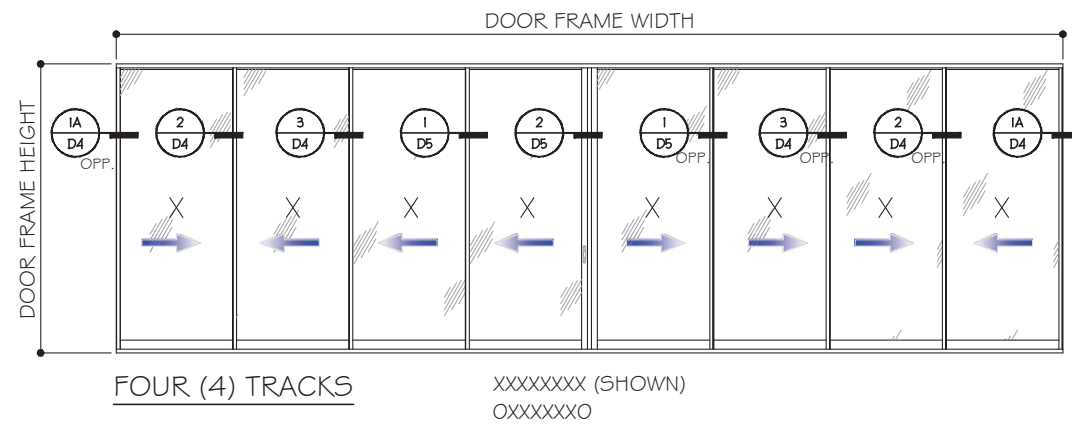
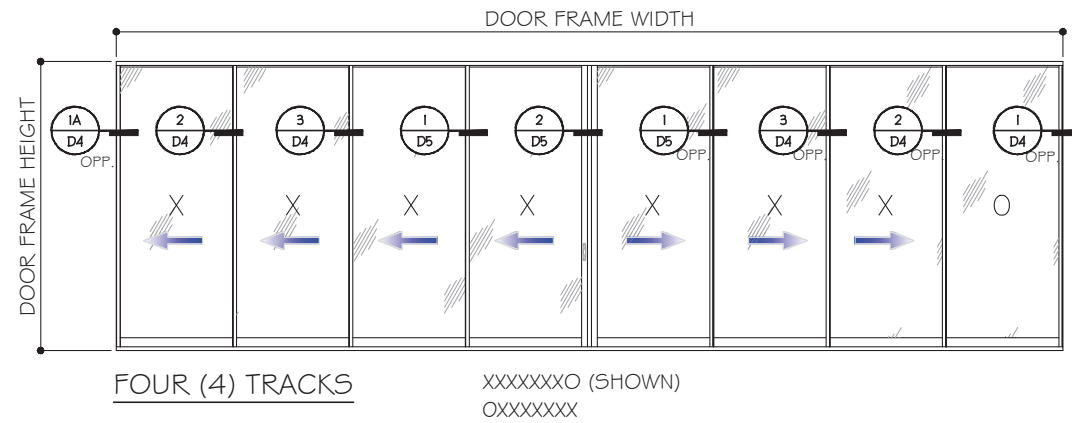
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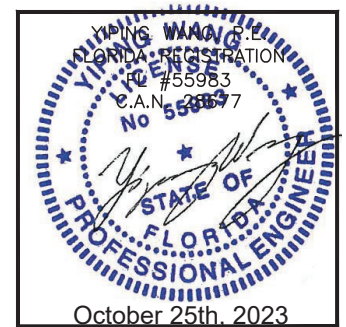
APPROVED CONFIGURATION DOORS

(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET K1 FOR Dp AND INTERLOCK OPTIONS



NOTES:

1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE SHEET G1 FOR GLASS OPTION AND CAPACITY.
3. FOR ALLOW. DESIGN PRESSURES OF SGD SEE SHEET K1 BASED ON INTERLOCK LEVEL 1, 2, 3 OR 4,
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1#A2 AND LAYOUT SEE SHEET E1 TO E4.
5. FOR JAMB AND POCKET ANCHOR SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J2.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.



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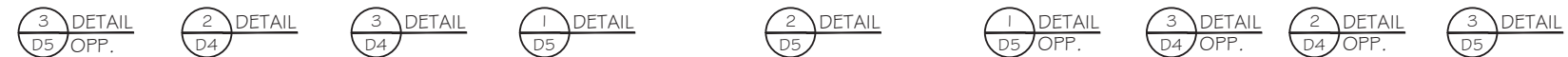
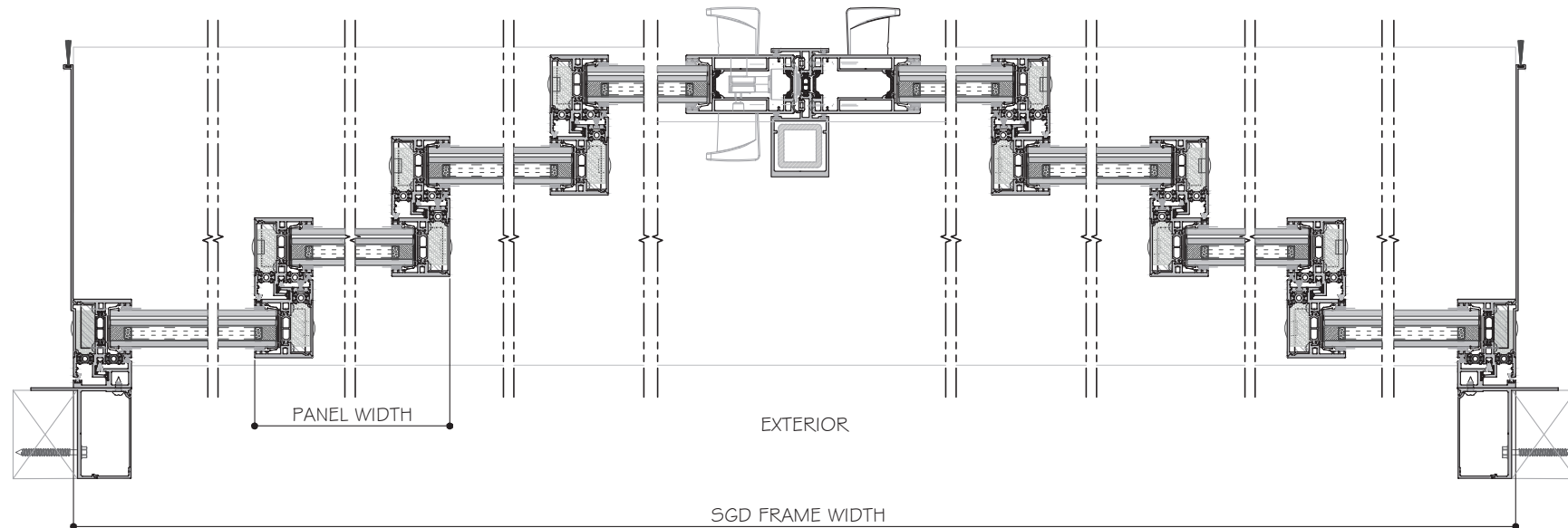
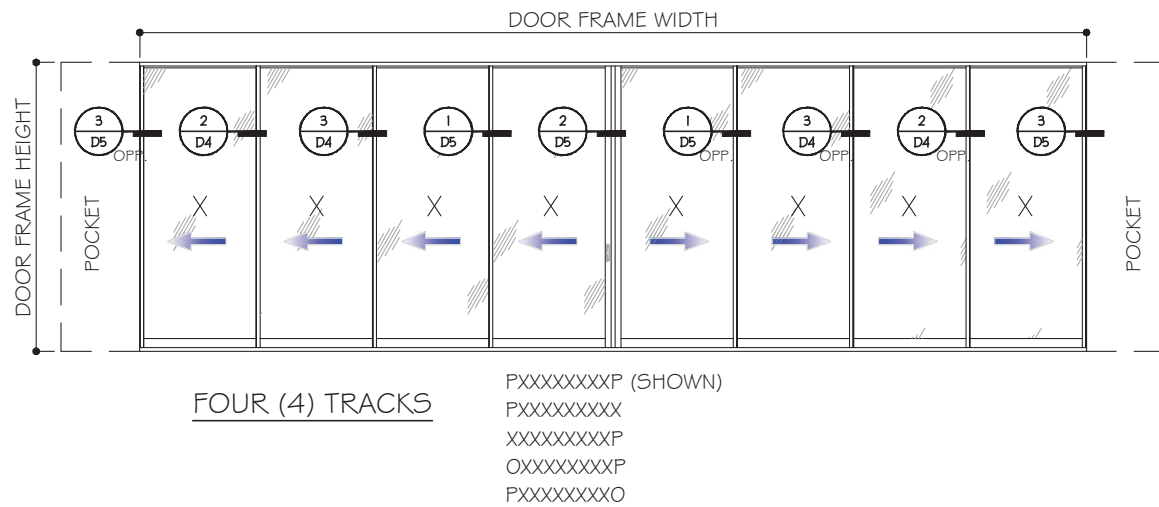
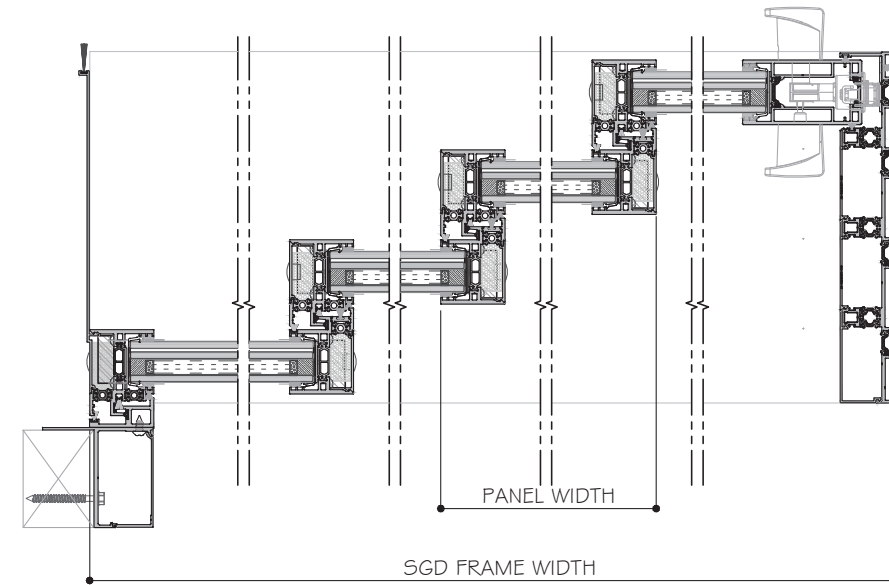
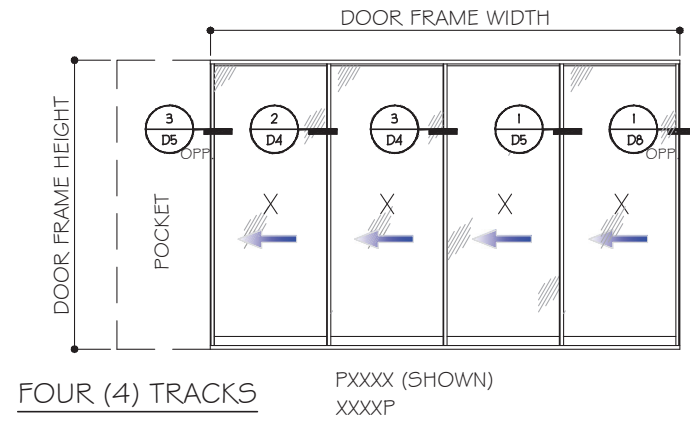
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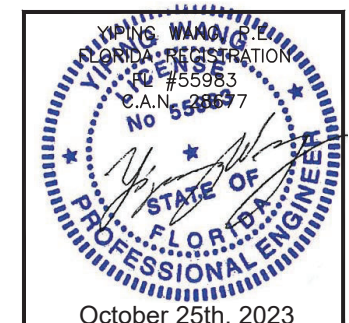
Sheet No. **E5**
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APPROVED CONFIGURATION DOORS
 (INTERLOCK OPTION LEVEL 1 SHOWN)
 SEE SHEET K.1 FOR Dp AND INTERLOCK OPTIONS



NOTES:
 CENTER PANELS & ASTRAGAL SHOWN AT INTERIOR TRACK.
 IT CAN BE AT BOTH INSIDE OR EXTERIOR TRACK.

- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
 2. SEE SHEET G.1 FOR GLASS OPTION AND CAPACITY.
 3. FOR ALLOW. DESIGN PRESSURES OF SGD SEE SHEET K.1 BASED ON INTERLOCK LEVEL 1, 2, 3 OR 4,
 4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A.1 & A.2 AND LAYOUT SEE SHEET E.1 TO E.4.
 5. FOR JAMB AND POCKET ANCHOR SEE OPTIONS AND CAPACITIES ON SHEET J.1 TO J.2.
 6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

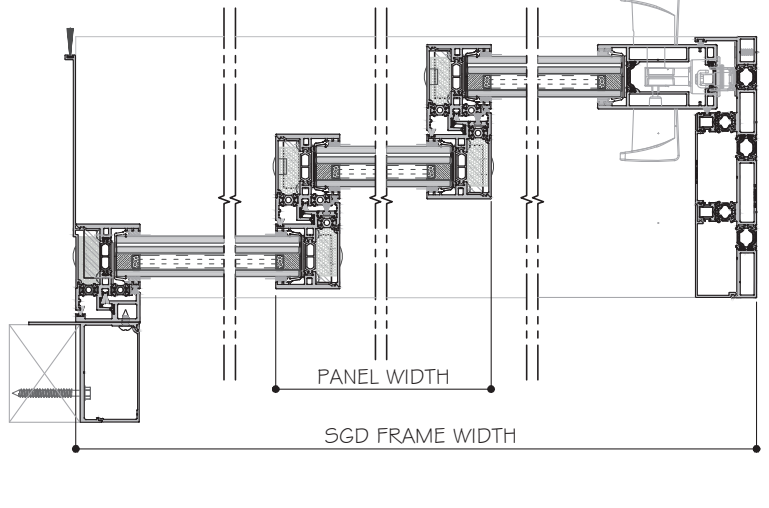
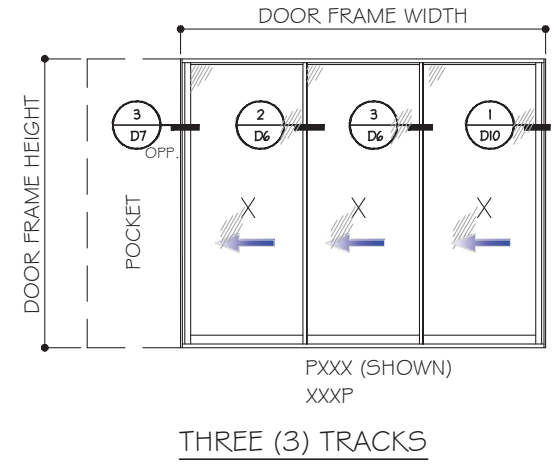
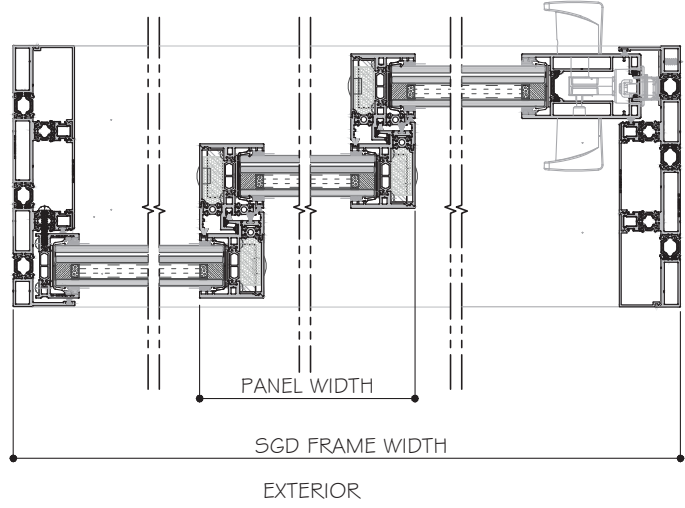
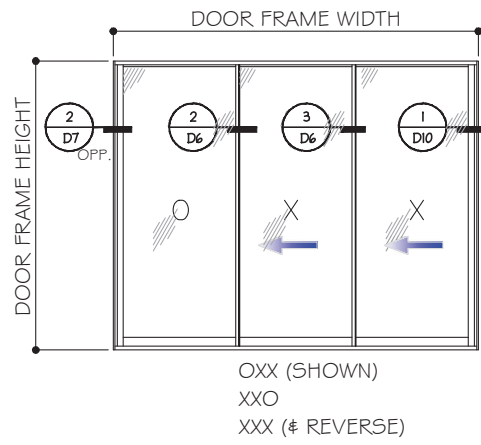


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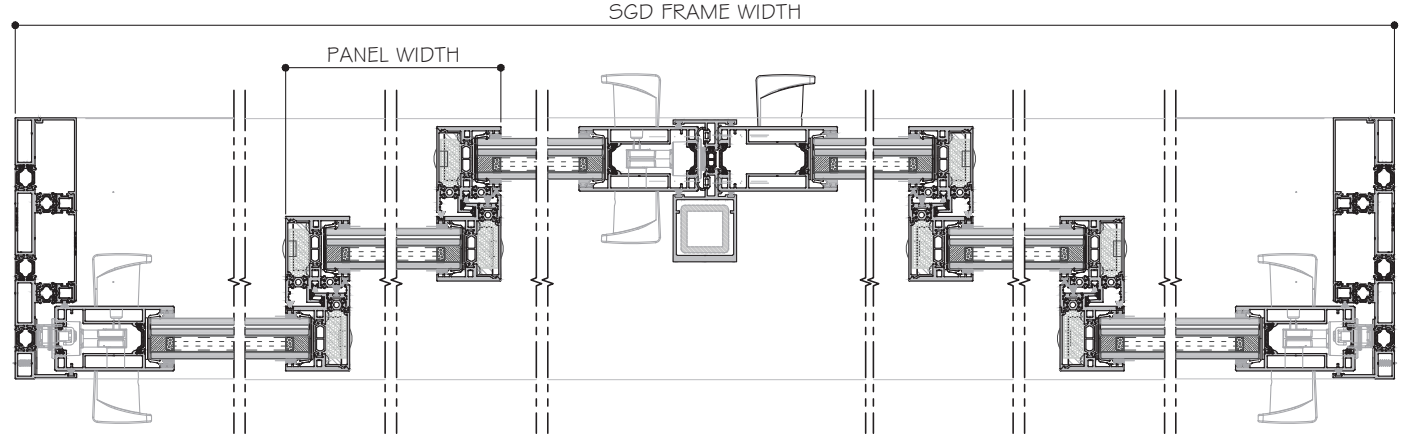
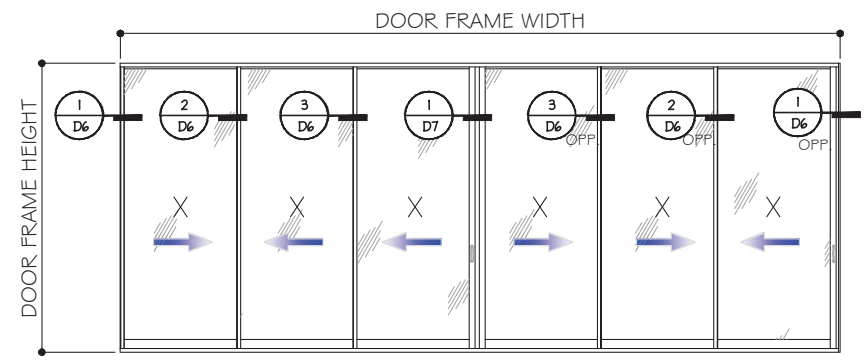
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APPROVED CONFIGURATION DOORS
 (INTERLOCK OPTION LEVEL 1 SHOWN)
 SEE SHEET K1 FOR Dp AND INTERLOCK OPTIONS

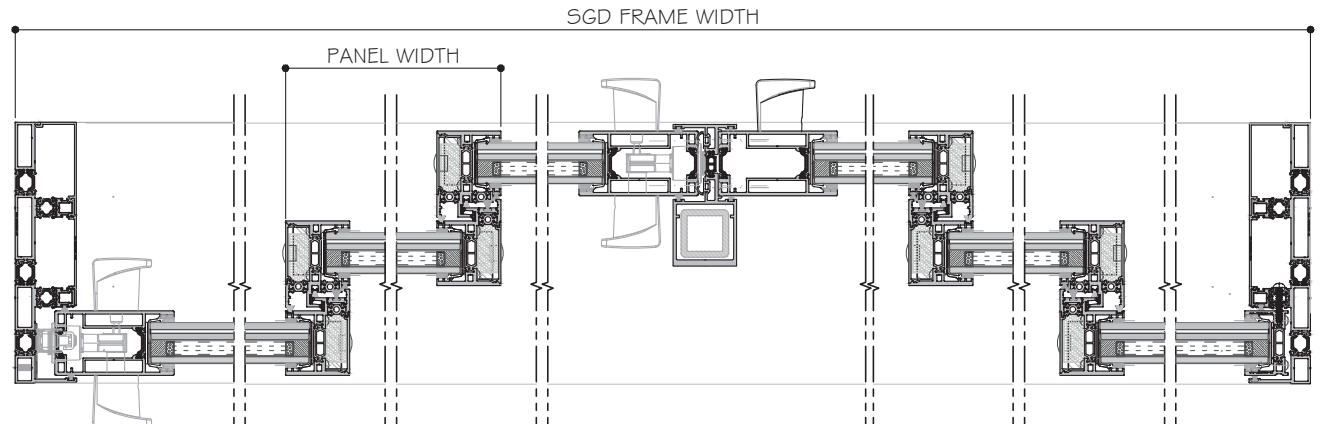
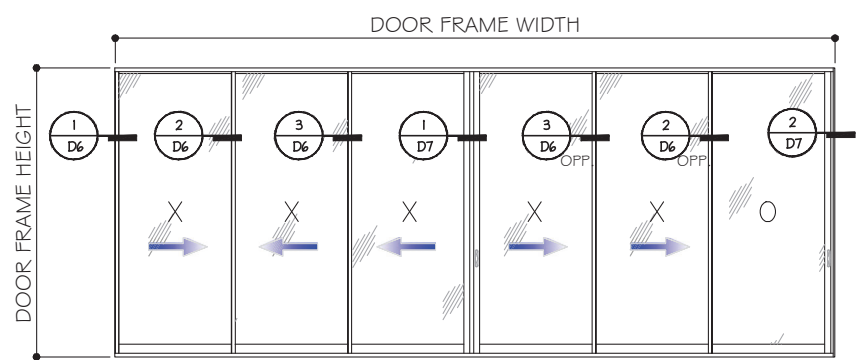


THREE (3) TRACKS

(REINFORCED SHOWN)
 SEE SHEET K1 FOR Dp AND REINFORCING OPTIONS



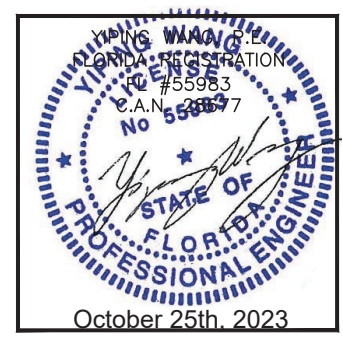
THREE (3) TRACKS XXXXXX (SHOWN)



THREE (3) TRACKS XXXXO (SHOWN)
 OXXXXO

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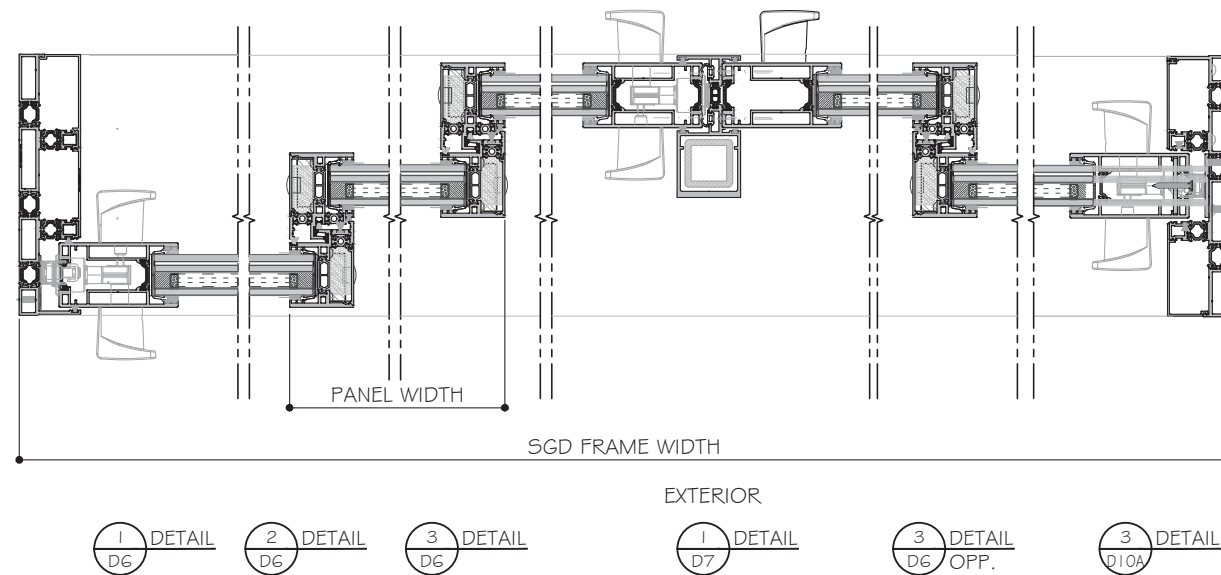
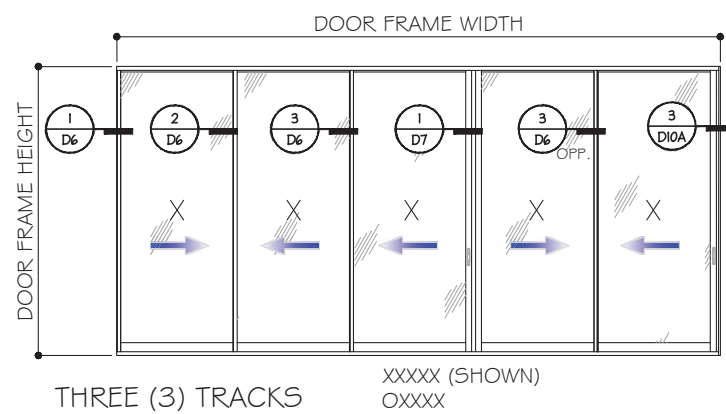
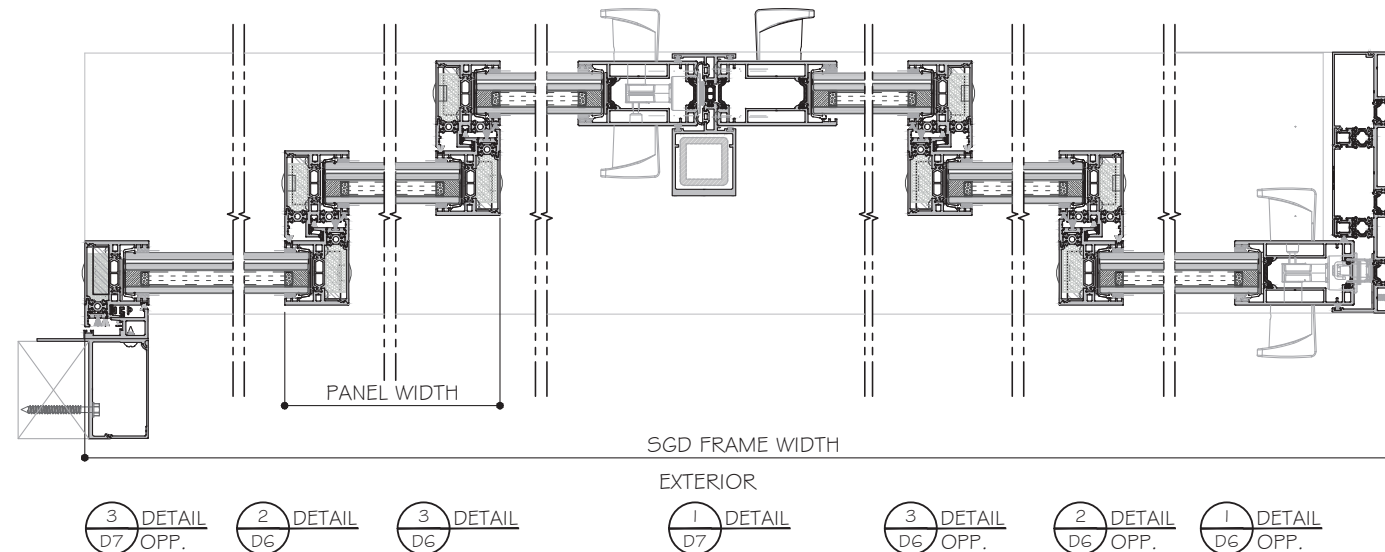
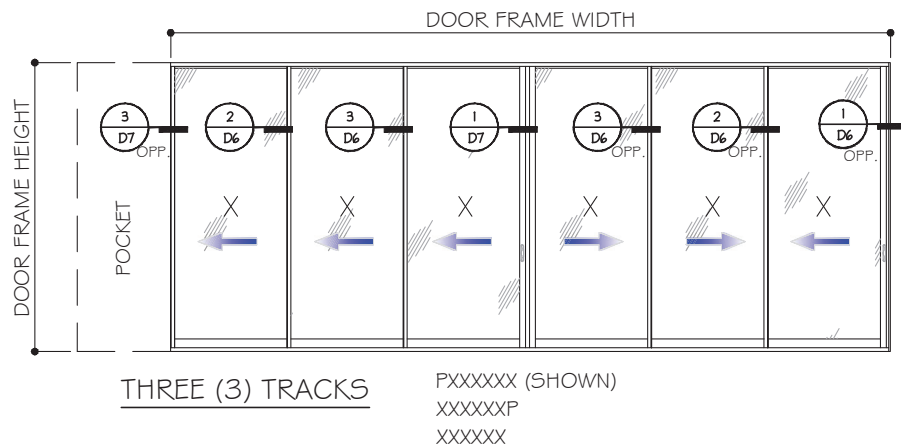
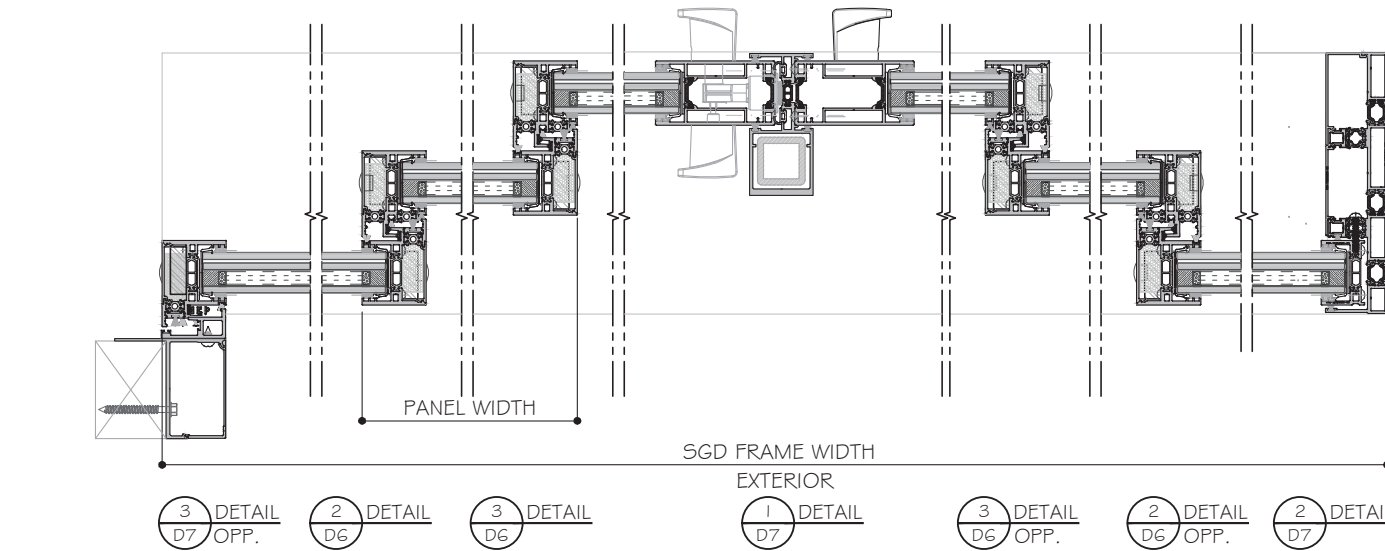
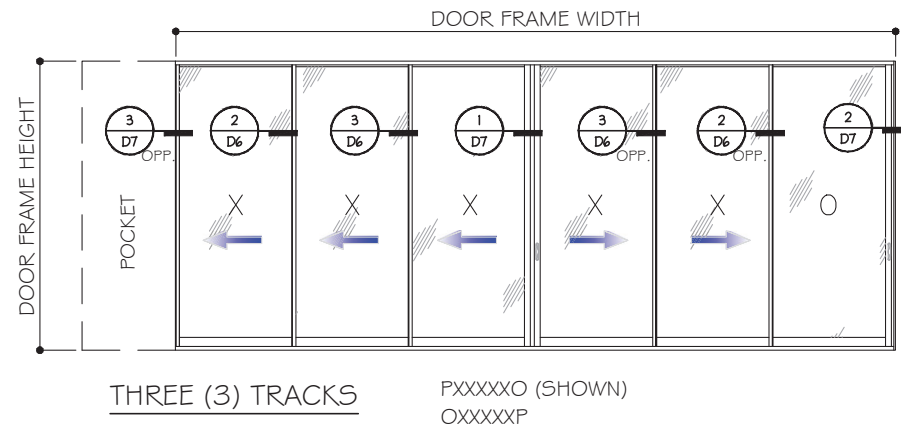
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APPROVED CONFIGURATION DOORS

(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET K1 FOR Dp AND INTERLOCK OPTIONS

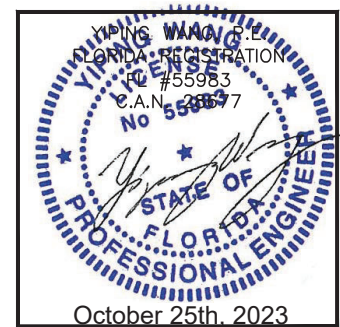


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4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET A1#A2 AND LAYOUT SEE SHEET E1 TO E4.
5. FOR JAMB AND POCKET ANCHOR SEE OPTIONS AND CAPACITIES ON SHEET J1 TO J2.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

NOTES:

CENTER PANELS & ASTRAGAL SHOWN AT INTERIOR TRACK.
IT CAN BE AT BOTH INSIDE OR EXTERIOR TRACK.

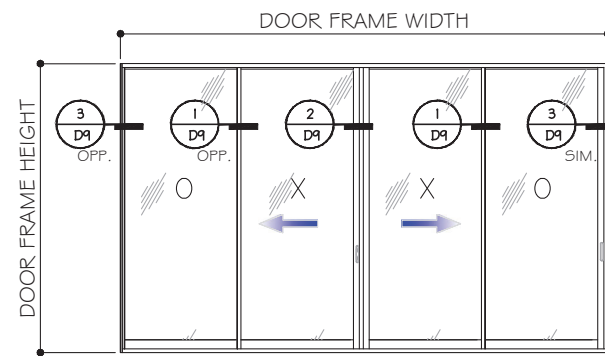


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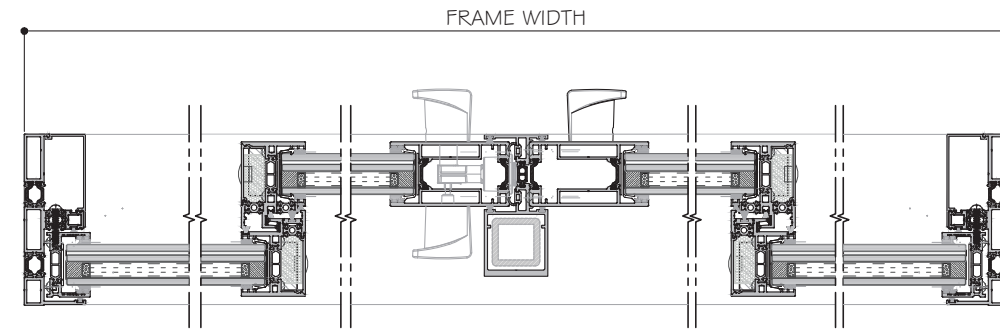
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Miami, FL 33138
TEL. (305) 624-7775

ES-SGD2020T SLIDING GLASS DOOR (LMI & SMI)	
Rev. No.	Date
R2	09.14.2023
Drawn By	James
Description	FBC 2023 UPDATE
Scale	
Drawn Date	09.14.2023
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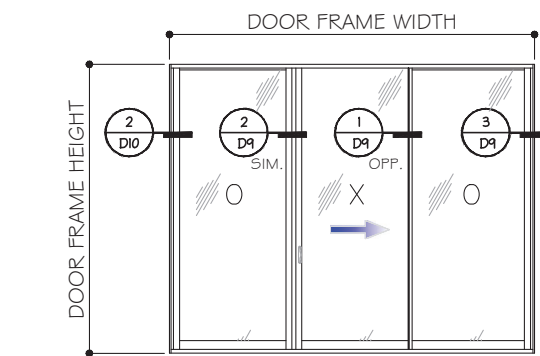
APPROVED CONFIGURATION DOORS
 (INTERLOCK OPTION LEVEL 1 SHOWN)
 SEE SHEET K1 FOR Dp AND INTERLOCK OPTIONS



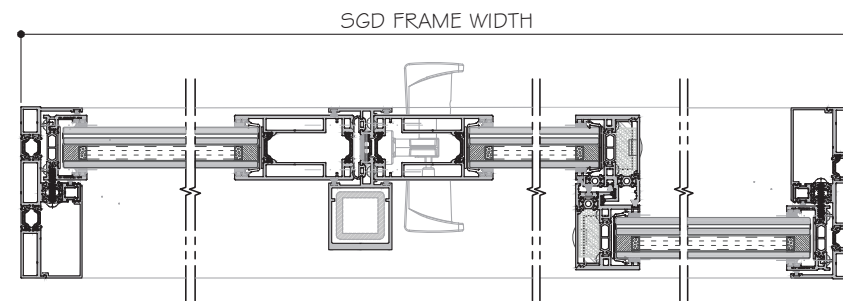
TWO (2) TRACKS OXXO (SHOWN)
 XXXX (SIMILAR)



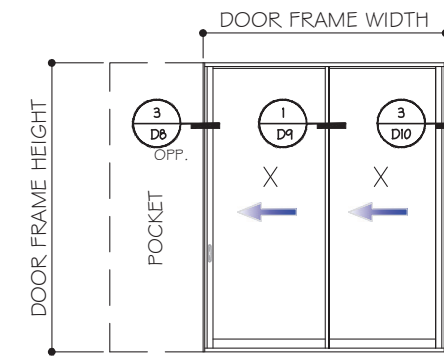
3 DETAIL D9 OPP. 1 DETAIL D9 OPP. 2 DETAIL D9 1 DETAIL D9 OPP. 3 DETAIL D9 SIM.



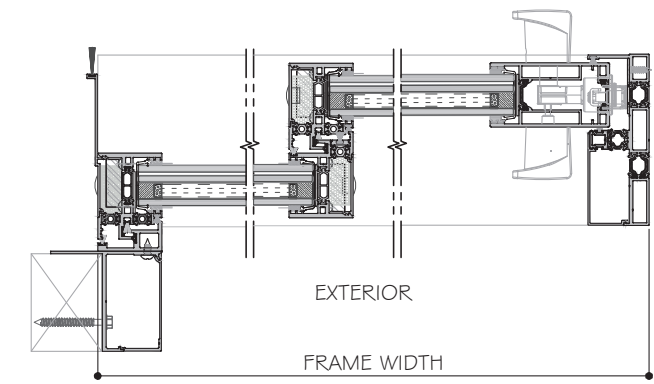
TWO (2) TRACKS OXO (SHOWN)
 OXO (REVERSE)



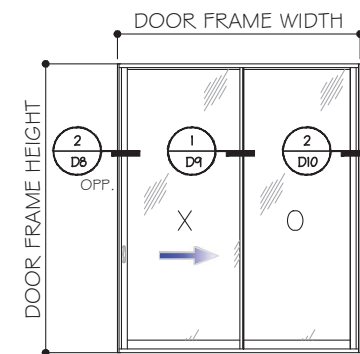
2 DETAIL D10 2 DETAIL D9 SIM. 1 DETAIL D9 OPP. 3 DETAIL D9



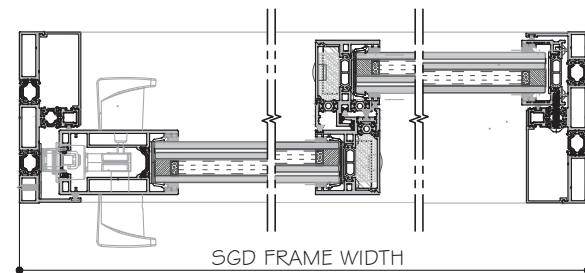
TWO (2) TRACKS PXX (SHOWN)
 XXP (REVERSE)



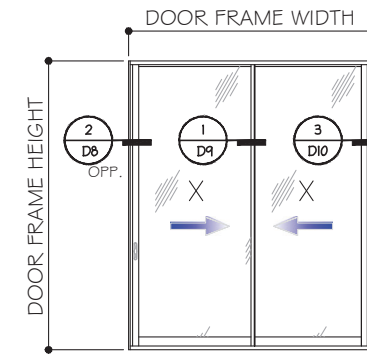
3 DETAIL D8 OPP. 1 DETAIL D9 3 DETAIL D10



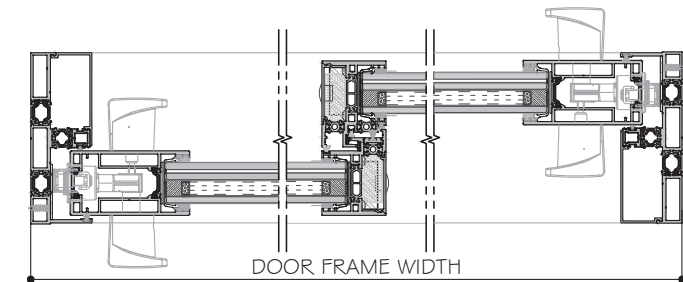
XO (SHOWN)
 OX
TWO (2) TRACKS



2 DETAIL D8 OPP. 1 DETAIL D9 2 DETAIL D10 OPP.



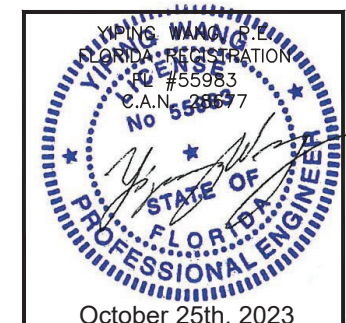
XX
TWO (2) TRACKS



2 DETAIL D8 OPP. 1 DETAIL D9 3 DETAIL D10

NOTES:

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2. SEE SHEET G1 FOR GLASS OPTION AND CAPACITY.
3. FOR ALLOW. DESIGN PRESSURES OF SGD SEE SHEET K1 BASED ON INTERLOCK LEVEL 1, 2, 3 OR 4,
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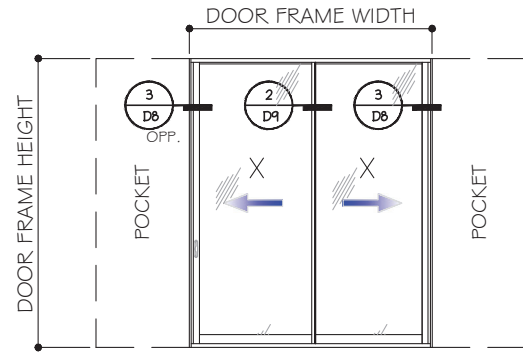
DRAWING NO. **AD21-56**

E9

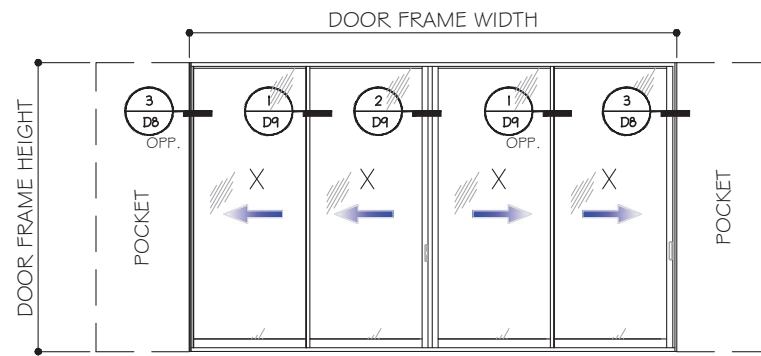
Sheet No. **10 OF 35**

APPROVED CONFIGURATION DOORS

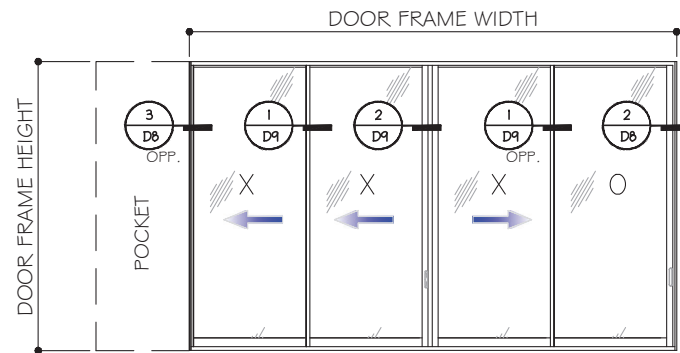
(INTERLOCK OPTION LEVEL 1 SHOWN)
SEE SHEET K1 FOR Dp AND INTERLOCK OPTIONS



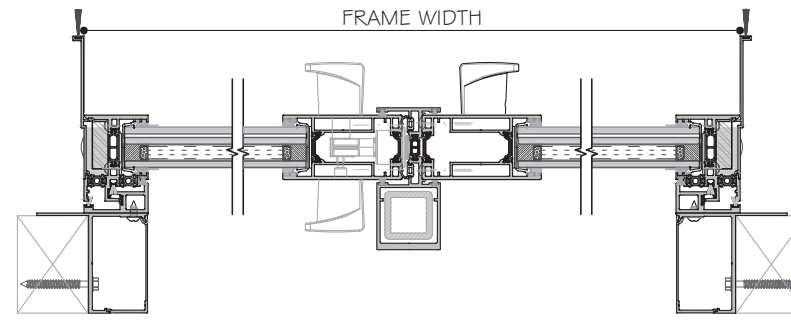
TWO (2) TRACKS PXXP



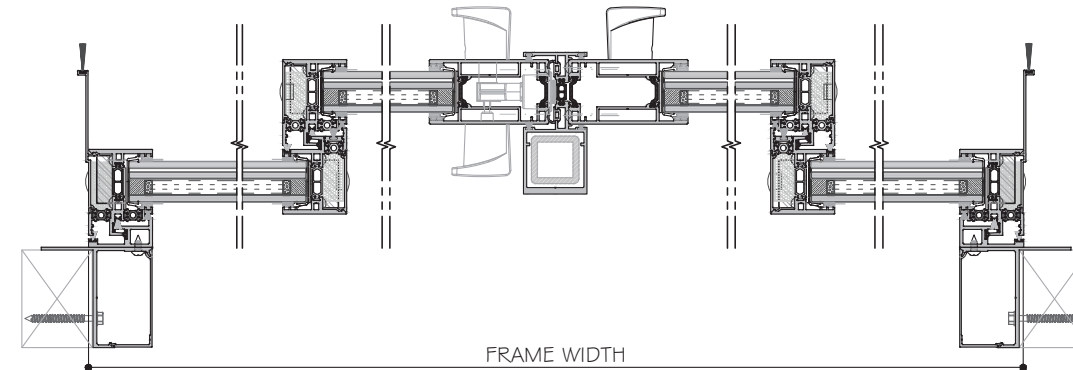
TWO (2) TRACKS PXXXXP



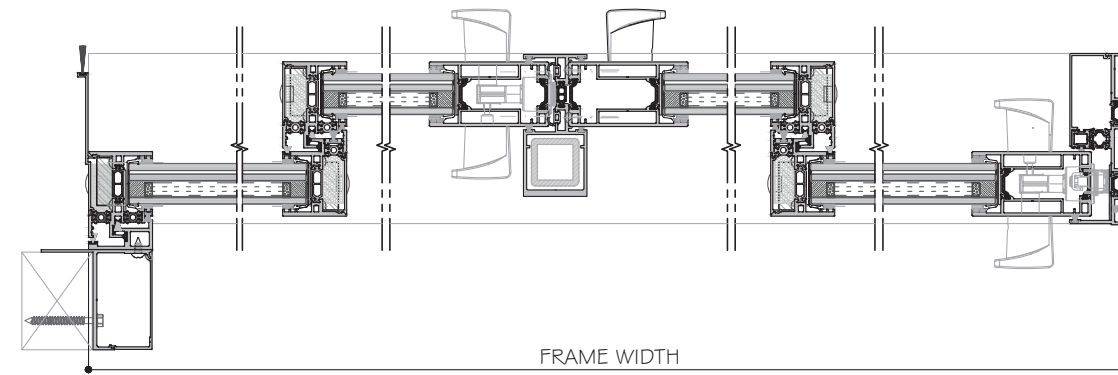
**TWO (2) TRACKS PXXXX (SHOWN)
XXXXP (REVERSE)
PXXXO
OXXXX**



3 D8 OPP. EXTERIOR 2 D4 3 D8



3 D8 OPP. 1 D4 EXTERIOR 2 D4 1 D4 3 D8



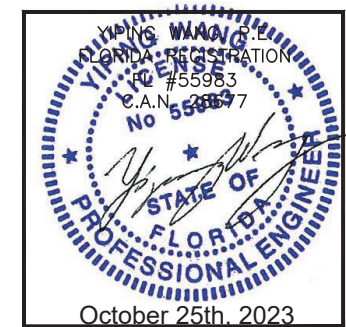
3 D8 OPP. 1 D4 2 D4 1 D4 2 D4

NOTES:

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NOTES:

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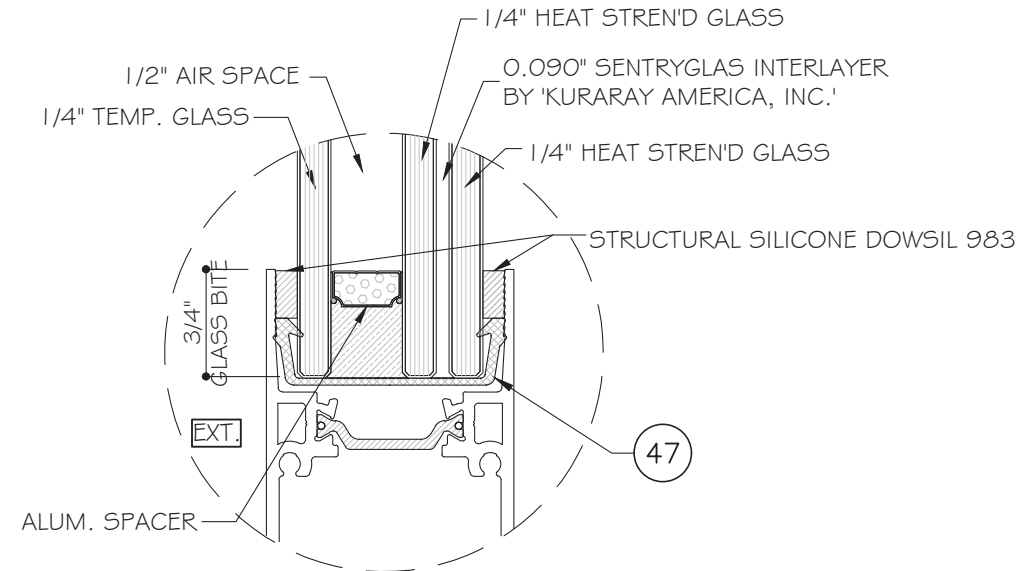


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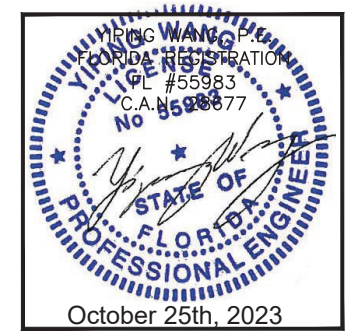
GLASS LOAD CAPACITY CHART - PSF		
PANEL DIMENSIONS		GLASS CAPACITY
PANEL WIDTH	PANEL HEIGHT	GLASS TYPE G1
(INCH)	(INCH)	(+/-)psf
48.0	102.0	105.0
54.0		105.0
60.0		105.0
66.0		105.0
72.0		105.0
48.0	108.0	105.0
54.0		105.0
60.0		105.0
66.0		105.0
72.0		105.0
48.0	114.0	105.0
54.0		105.0
60.0		105.0
66.0		105.0
72.0		105.0
48.0	120.0	105.0
54.0		105.0
60.0		105.0
66.0		105.0
72.0		105.0
42.0	126.0	105.0
48.0		105.0
54.0		105.0
60.0		105.0
66.0		105.0
42.0	132.0	105.0
48.0		105.0
54.0		105.0
60.0		105.0
66.0		105.0



GLASS TYPE 'G1'
1 5/16" NOMINAL OVERALL

NOTE: PART 47 CAN BE USED AS SETTING BLOCK
GLASS BITE APPLY TO ENTIRE SYSTEM

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



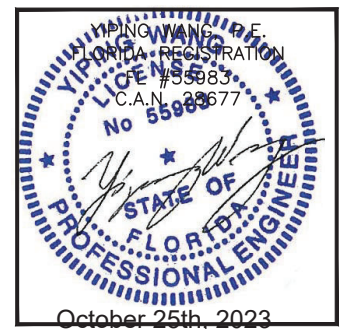
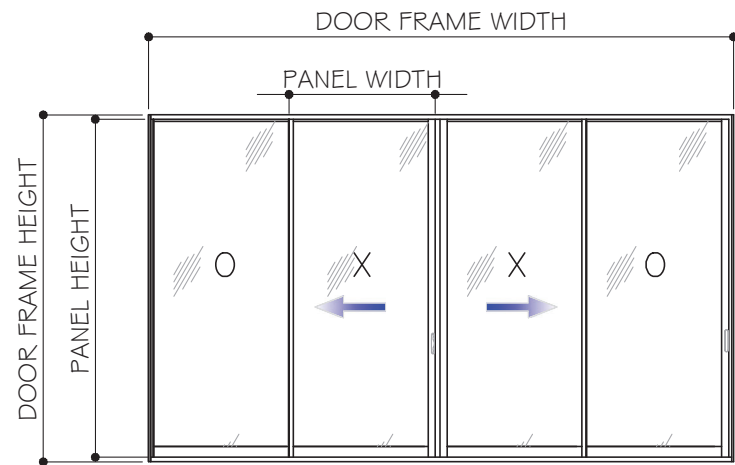
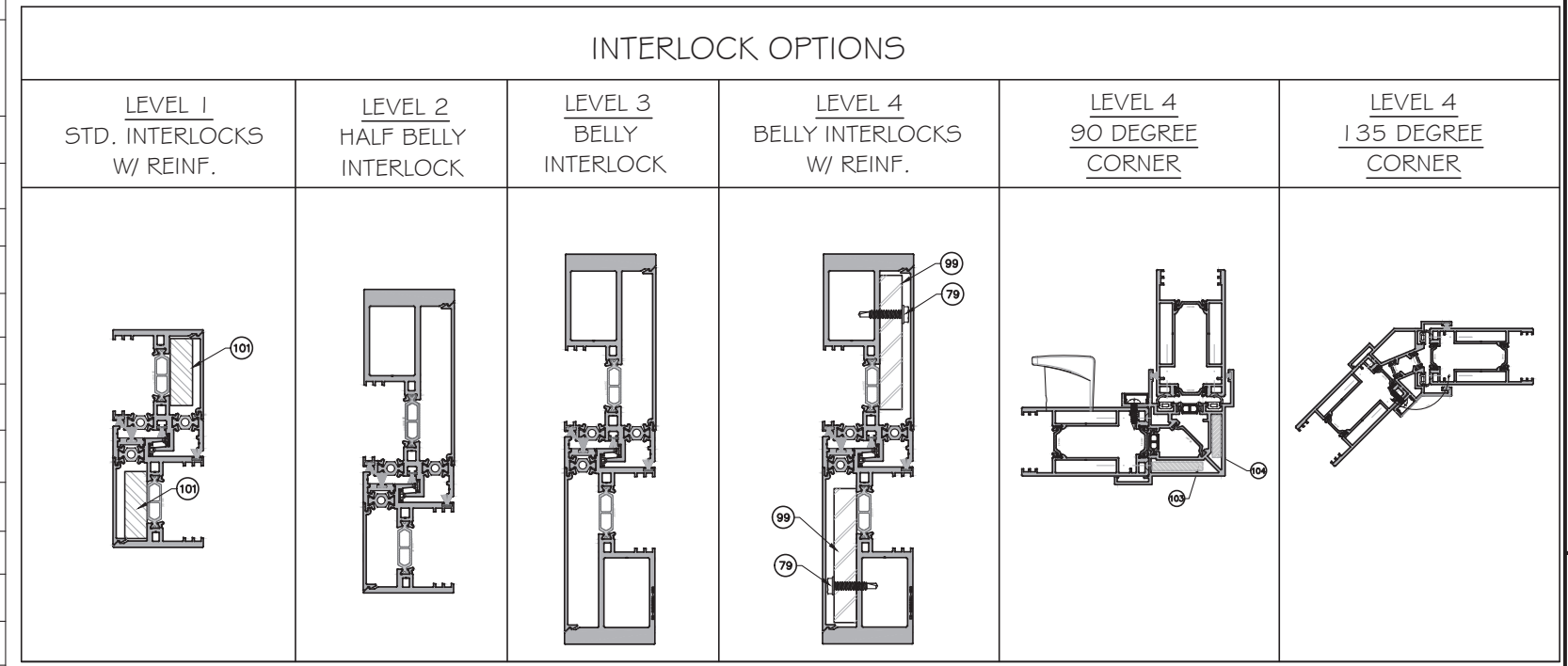
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INTERLOCK LOAD CAPACITY CHART - (+/-) PSF						
PANEL DIMENSIONS		LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 4
PANEL WIDTH	PANEL HEIGHT	STD INTERLOCK W/ REINF.	HALF BELLY INTERLOCK W/O REINF.	BELLY INTERLOCK W/O REINF.	BELLY INTERLOCK W/ REINF.	CORNERS
(INCH)	(INCH)					
48.0	102.0	40.0	65.0	95.0	105.0	105.0
54.0		40.0	65.0	95.0	105.0	105.0
60.0		40.0	65.0	95.0	105.0	105.0
66.0		40.0	65.0	95.0	105.0	105.0
72.0		40.0	40.0	40.0	105.0	105.0
48.0	108.0	40.0	65.0	95.0	105.0	105.0
54.0		40.0	65.0	95.0	105.0	105.0
60.0		40.0	65.0	95.0	105.0	105.0
66.0		40.0	65.0	95.0	105.0	105.0
72.0		40.0	65.0	95.0	105.0	105.0
48.0	114.0	40.0	65.0	95.0	105.0	105.0
54.0		40.0	65.0	95.0	105.0	105.0
60.0		40.0	65.0	95.0	105.0	105.0
66.0		40.0	65.0	95.0	105.0	105.0
72.0		40.0	65.0	95.0	105.0	105.0
48.0	120.0	40.0	65.0	95.0	105.0	105.0
54.0		40.0	65.0	95.0	105.0	105.0
60.0		40.0	65.0	95.0	105.0	105.0
66.0		40.0	65.0	95.0	105.0	105.0
72.0		40.0	65.0	95.0	105.0	105.0
42.0	126.0	40.0	65.0	95.0	105.0	105.0
48.0		40.0	65.0	95.0	105.0	105.0
54.0		40.0	65.0	95.0	105.0	105.0
60.0		40.0	65.0	95.0	105.0	105.0
66.0		40.0	65.0	95.0	105.0	105.0
42.0	132.0	40.0	65.0	95.0	105.0	105.0
48.0		40.0	65.0	95.0	105.0	105.0
54.0		40.0	65.0	95.0	105.0	105.0
60.0		40.0	65.0	95.0	105.0	105.0
66.0		40.0	65.0	95.0	105.0	105.0

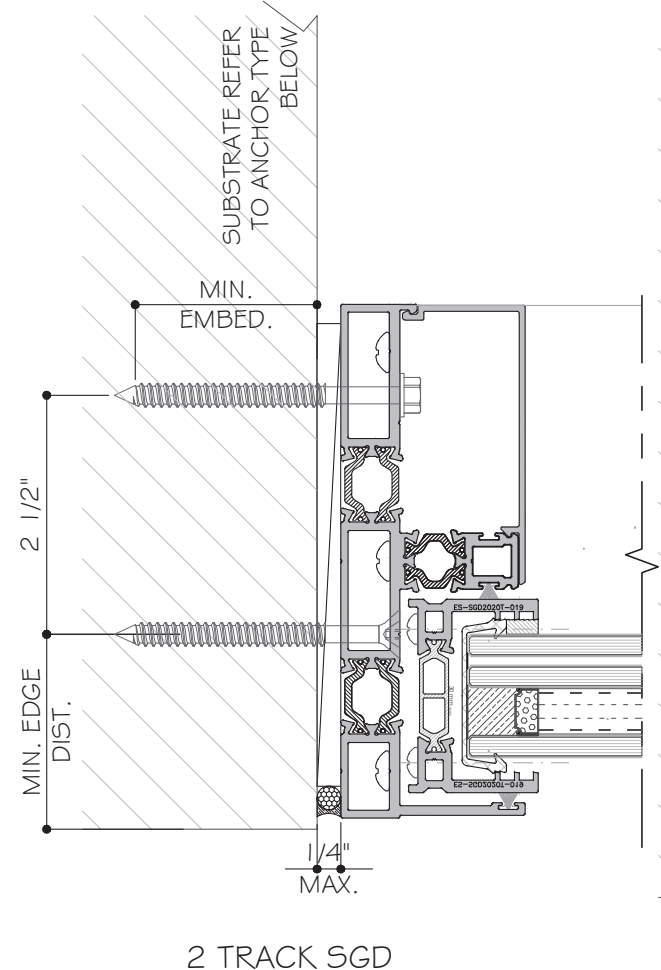
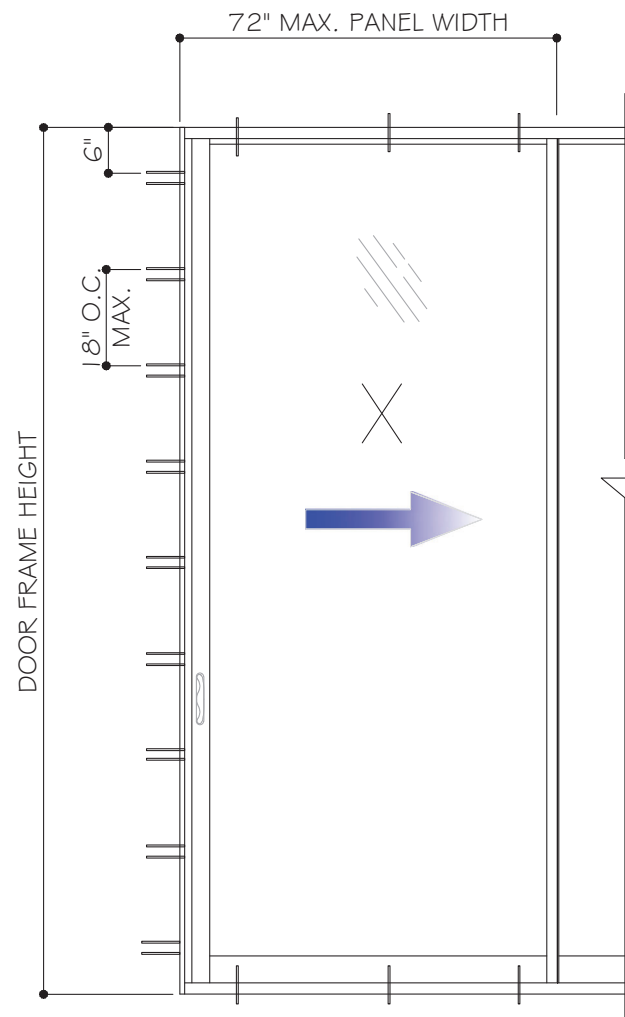
NOTE:
 *NORM. PANEL WIDTH = FRAME WIDTH/ NO. OF PANELS



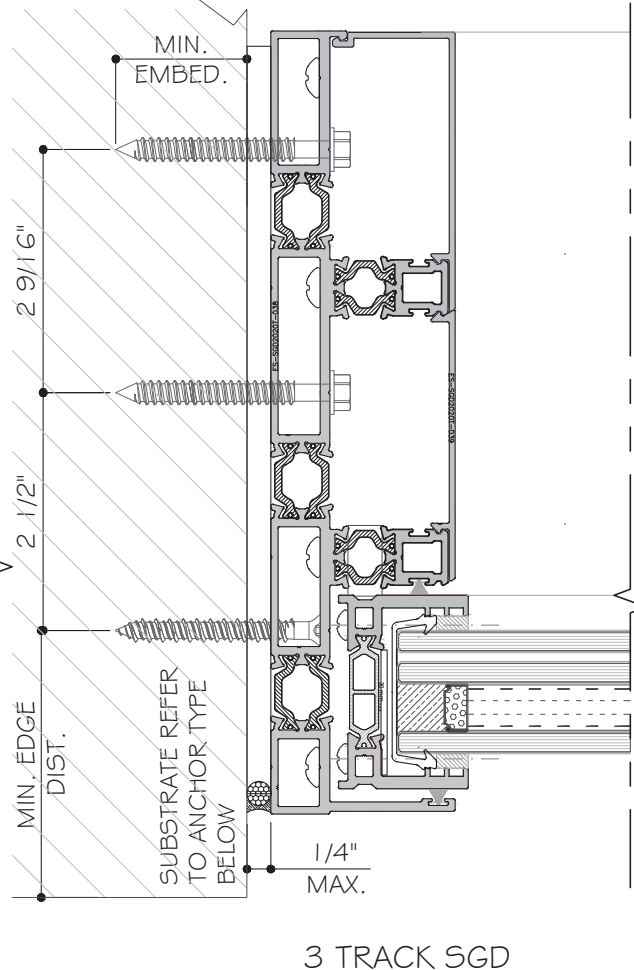
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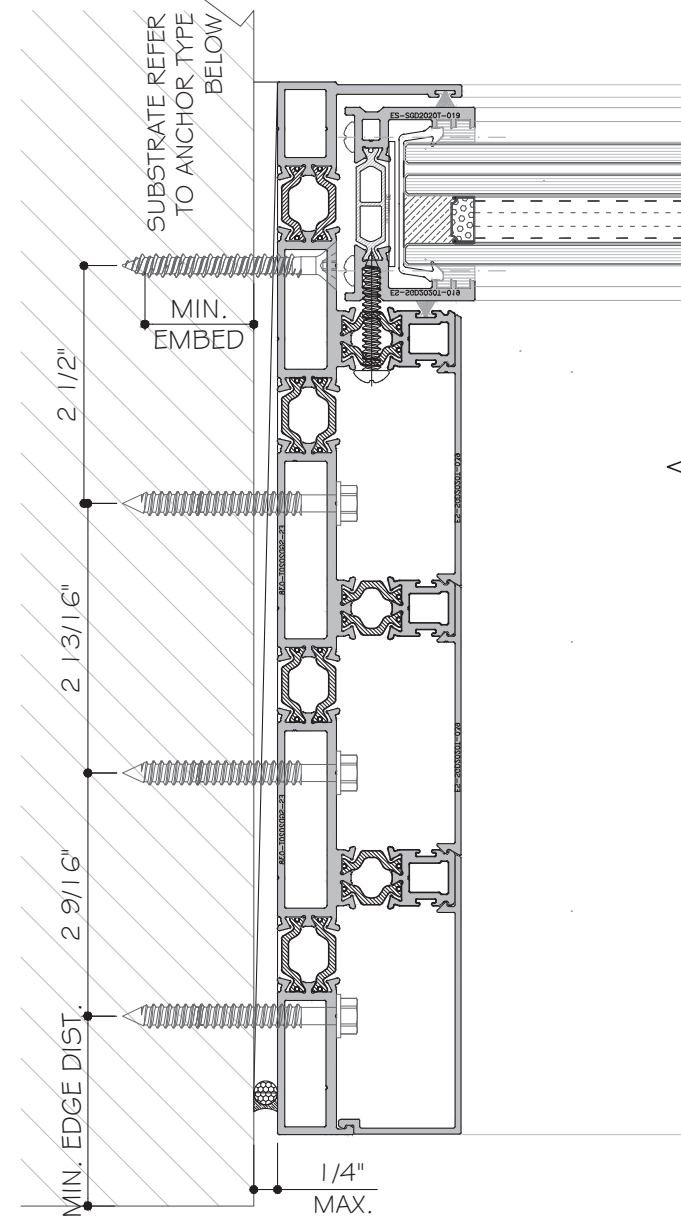
Drawn Date	Scale
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2 TRACK SGD



3 TRACK SGD



4 TRACK SGD

TYPICAL JAMB ANCHOR TYPES:

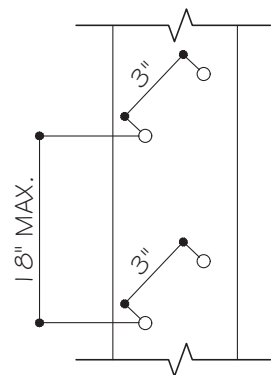
TYPE "A": 1/4" ULTRACON+ BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
 1 1/2" MIN. PENETRATION INTO 2X WOOD OR WOOD STRUCTURES
 OR THRU. WOOD INTO CONCRETE OR MASONRY

TYPE "B": 1/4" ULTRACON+ BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
 1 3/4" MIN. EMBED DIRECTLY INTO CONCRETE
 OR 1 1/4" MIN. EMBED INTO HOLLOW BLOCK (JAMB ONLY)
 OR 1 3/4" MIN. EMBED INTO GROUT FILLED BLOCK (JAMB ONLY)

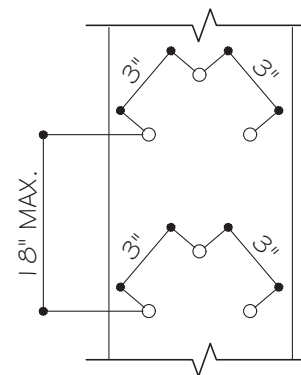
TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ($F_u=120$ KSI, $F_y=92$ KSI)
 INTO METAL STRUCTURE
 ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
 STEEL: 3/16" THK. MIN. ($F_y=36$ KSI, MIN.)
 (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE
 STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

MIN. EDGE DISTANCE:
 INTO CONCRETE OR MASONRY: 2 1/2" MIN.
 INTO WOOD: 1" MIN.
 INTO METAL: 1/2" MIN.

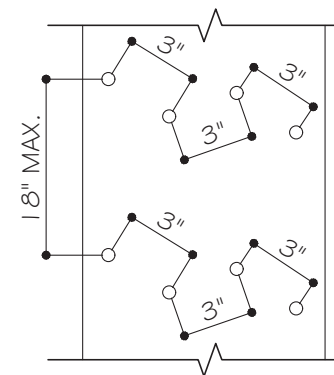
CONCRETE AT HEAD, SILL OR JAMBS $f_c=3050$ psi MIN.
 C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB ONLY $f_m=2000$ psi MIN.



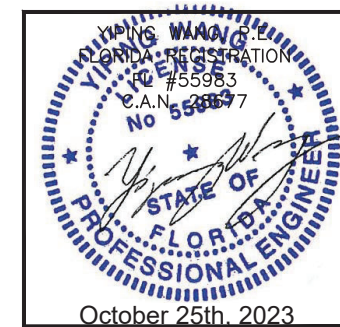
2 TRACK SGD



3 TRACK SGD



4 TRACK SGD



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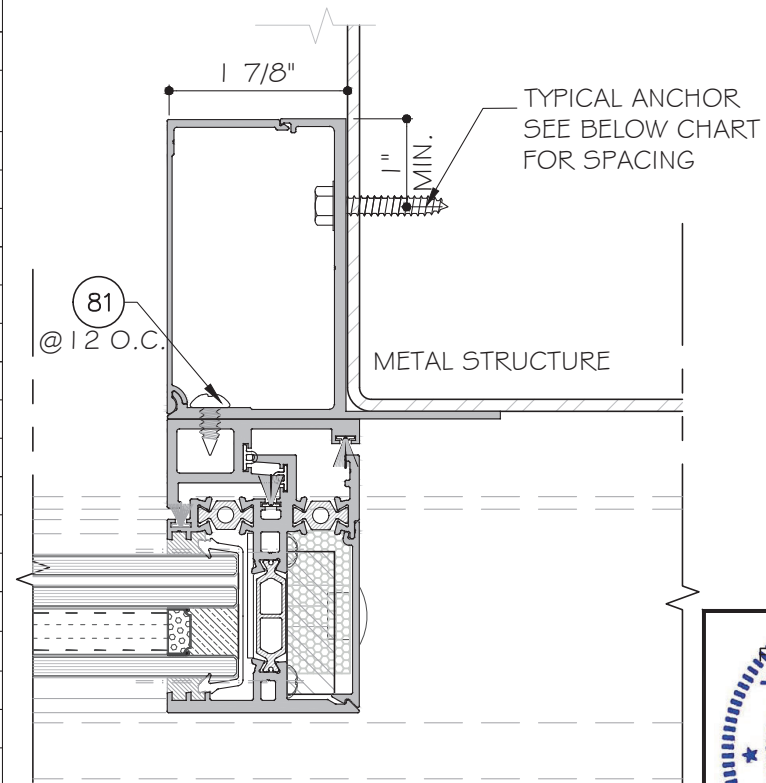
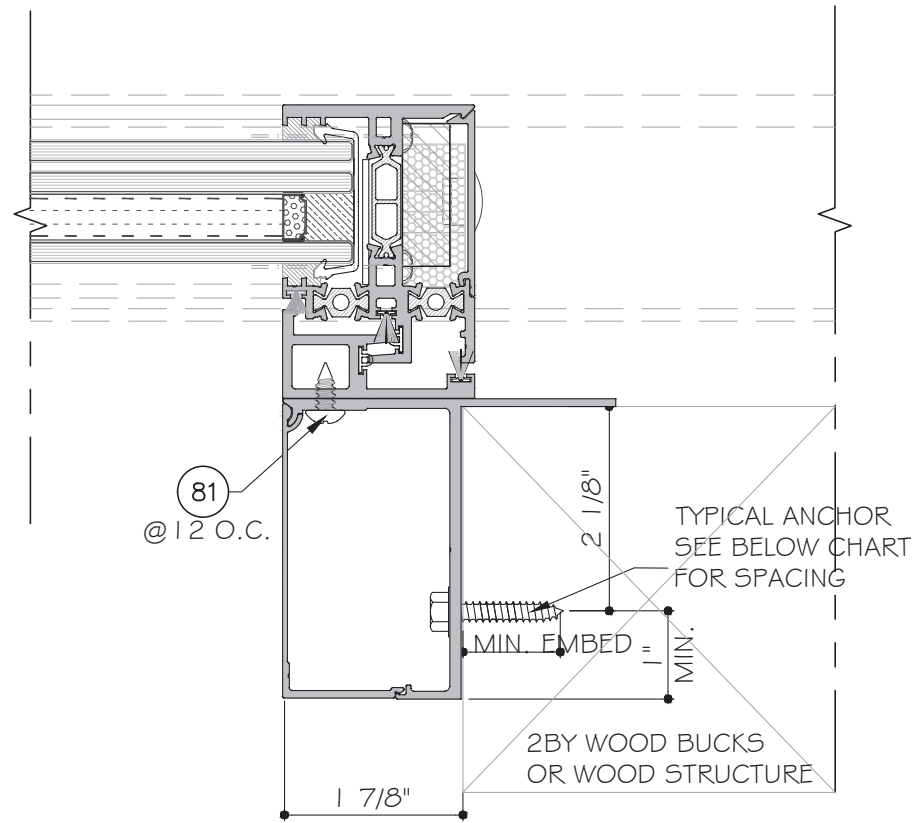
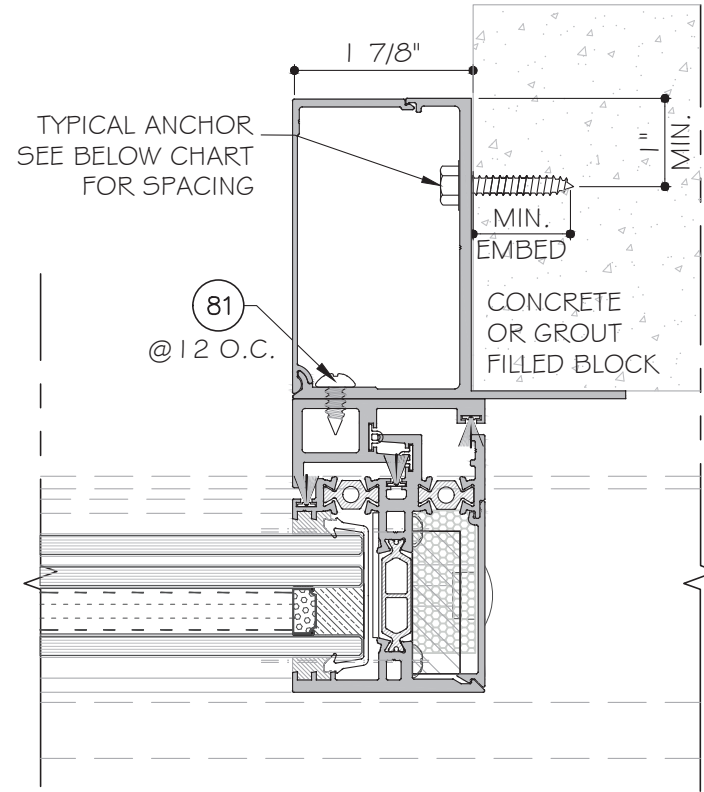
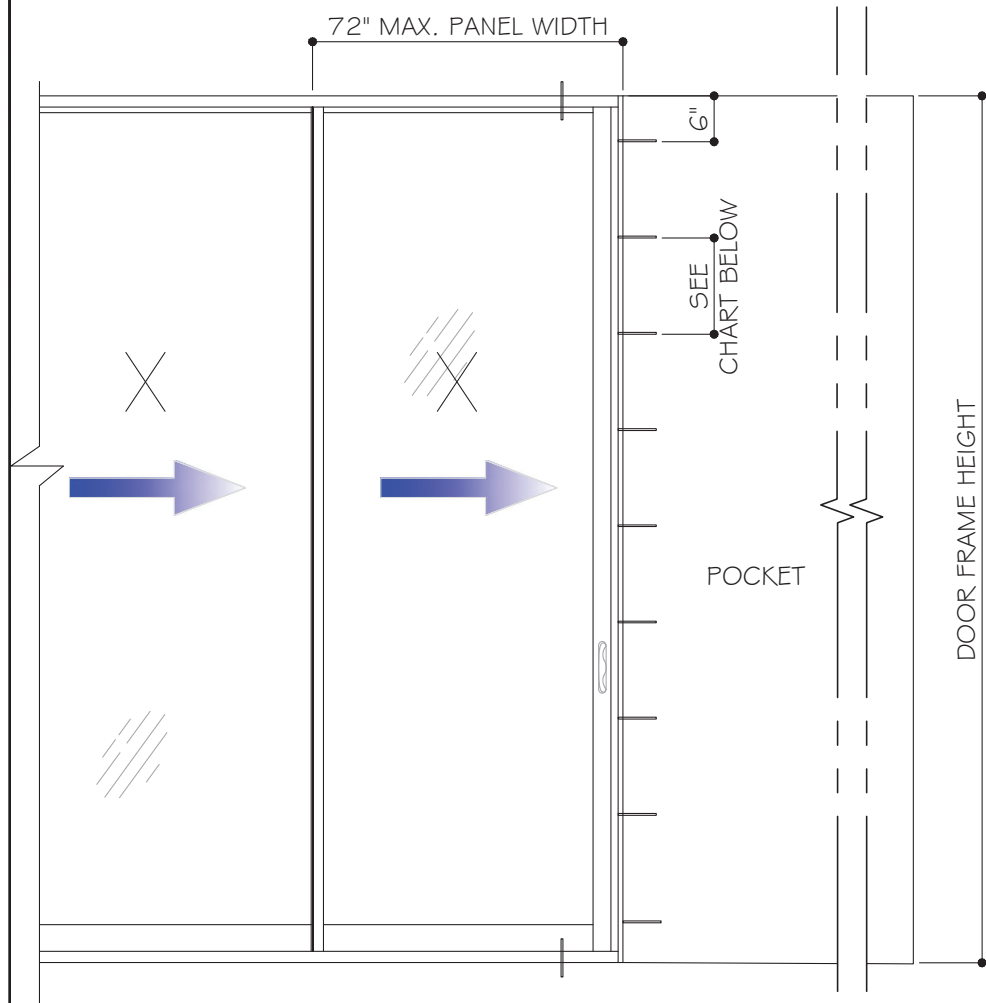
Rev. No.	Date	Drawn By	Description
R2	09.14.2023	JAMES	FBC 2023 UPDATE

Drawn Date: 09.14.2023
 Scale:

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POCKET JAMB ANCHOR TYPES:

TYPE "A": 1/4" ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
 1 1/2" MIN. PENETRATION INTO 2X WOOD BUCK OR WOOD STRUCTURE
 OR THRU. WOOD INTO CONCRETE OR GROUT FILLED BLOCK

TYPE "B": 1/4" ULTRACON+ BY DEWALT (Fu=164 KSI, Fy=148 KSI)
 1 3/4" MIN. EMBED DIRECTLY INTO CONCRETE
 OR 2 1/4" MIN. EMBED INTO GROUT FILLED BLOCK

TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 (Fu=120 KSI, Fy=92 KSI)
 INTO METAL STRUCTURE

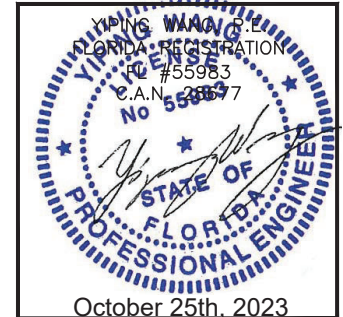
ALUMINUM: 1/4" THK. MIN. (6063-T5 MIN.)
 STEEL: 3/16" THK. MIN. (Fy=36KSI, MIN.)
 (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE
 STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

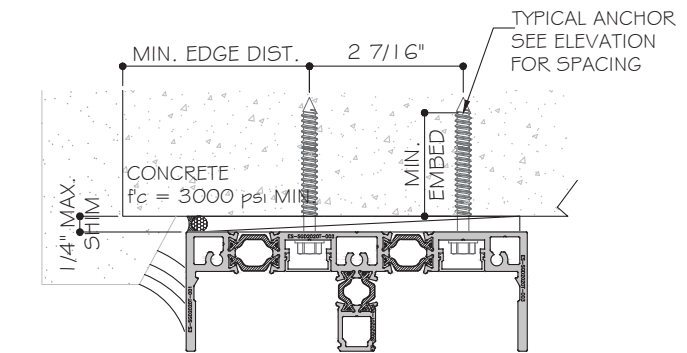
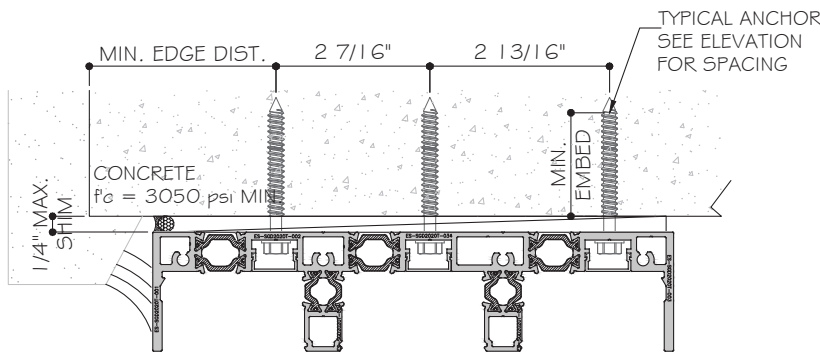
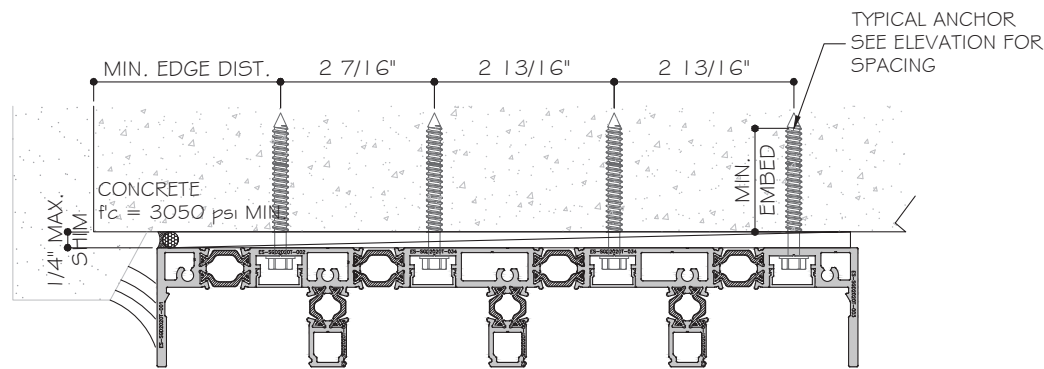
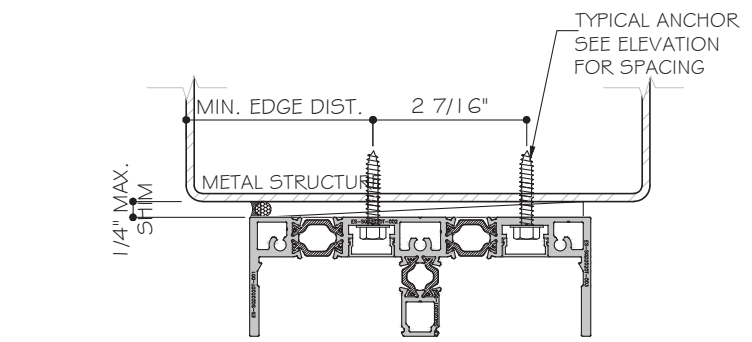
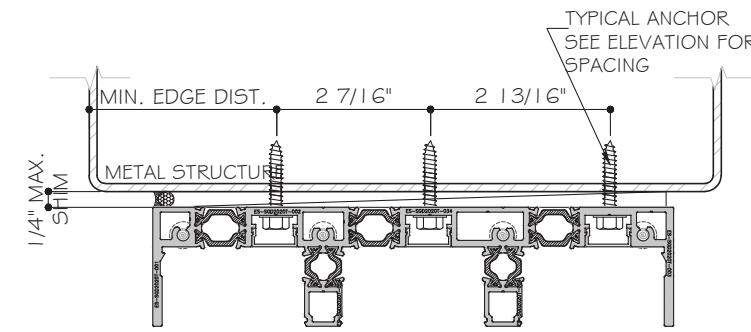
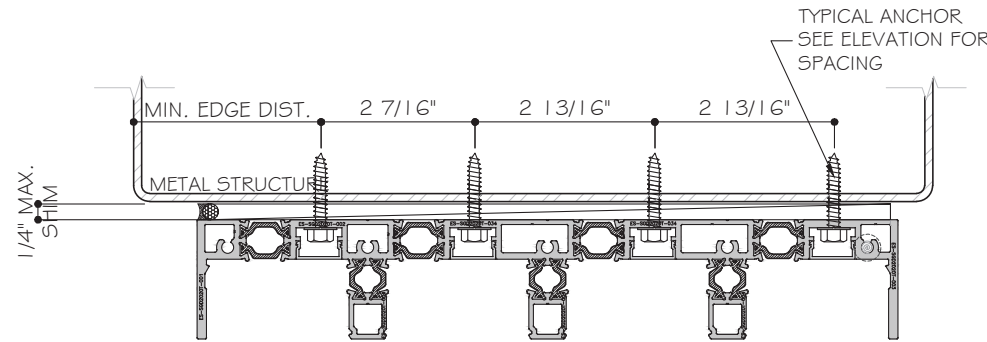
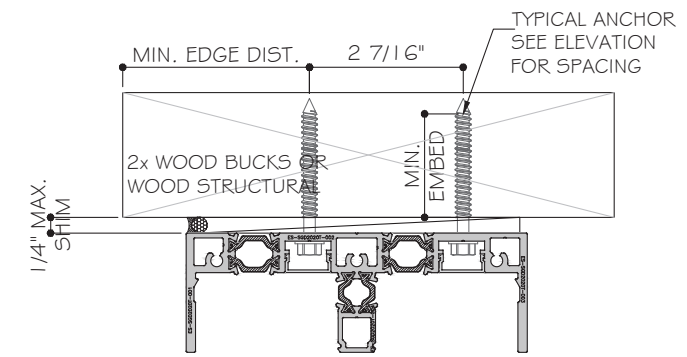
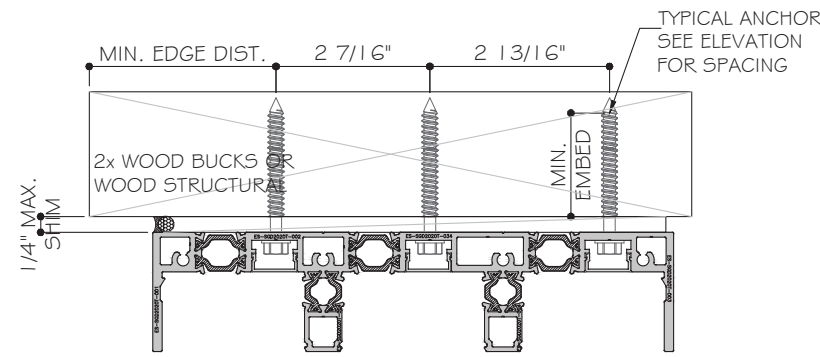
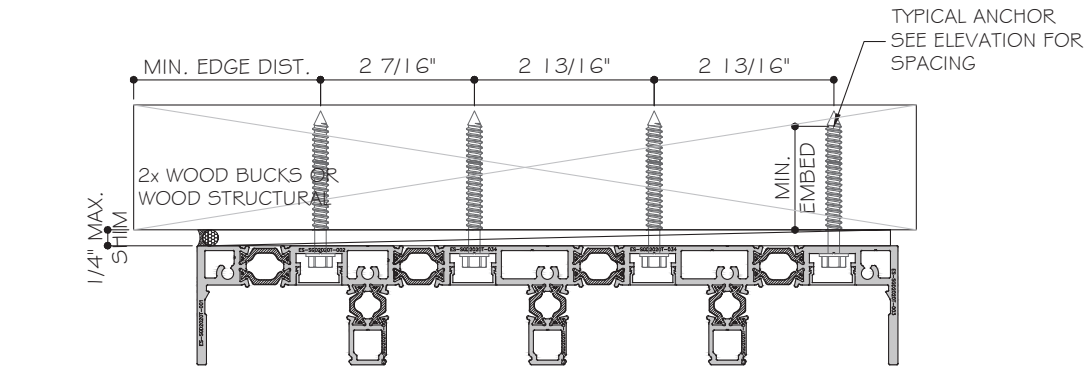
MIN. EDGE DISTANCE: CONCRETE 2 1/2"
 MIN. EDGE DISTANCE: WOOD: 1"
 MIN. EDGE DISTANCE: METAL: 1/2"

CONCRETE AT HEAD, SILL OR JAMBS f'c=3050 psi MIN.
 C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB ONLY f'm=2000psi MIN.

POCKET JAMB ANCHOR CHART				
ANCHOR TYPE	SUBSTRATE	PANEL SPACING	SPACING	Pd(P5F)
A	WOOD	60.0	6	105
		66.0	6	95
		72.0	6	88
B	CONCRETE	60.0	12	90
		66.0	12	82
		72.0	12	75
B	CONCRETE	60.0	8	105
		66.0	8	95
		72.0	8	88
B	GROUT FILLED BLOCK	60.0	8	105
		66.0	8	95
		72.0	8	88
C	ALUM.	60.0	12	103
		66.0	12	93
		72.0	12	85
C	STL	60.0	12	105
		66.0	12	95
		72.0	12	88

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4 TRACK SGD

3 TRACK SGD

2 TRACK SGD

TYPICAL ANCHOR TYPES @ HEAD & SILL:

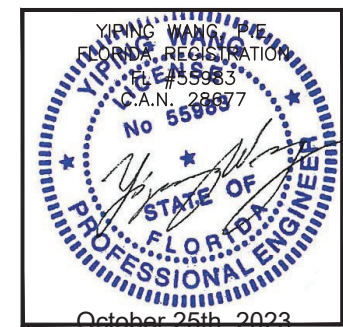
TYPE "A": 1/4" ULTRACON+ BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
 1 1/2" MIN. PENETRATION INTO 2X WOOD OR WOOD STRUCTURES
 OR THRU. WOOD INTO CONCRETE

TYPE "B": 1/4" ULTRACON+ BY DEWALT ($F_u=164$ KSI, $F_y=148$ KSI)
 1 3/4" MIN. EMBED DIRECTLY INTO $f_c=3050$ psi MIN. CONCRETE

TYPE "C": 1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ($F_u=120$ KSI, $F_y=92$ KSI)
 INTO METAL STRUCTURE
 ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
 STEEL: 3/16" THK. MIN. ($F_y=36$ KSI, MIN.)
 (3) THREADS MIN. PENETRATION BEYOND METAL SUBSTRATE
 STEEL IN CONTACT WITH ALUM. TO BE PAINTED.

MIN. EDGE DISTANCE:
 INTO CONCRETE: 2 1/2" MIN.
 INTO WOOD: 1" MIN.
 INTO METAL: 1/2" MIN.

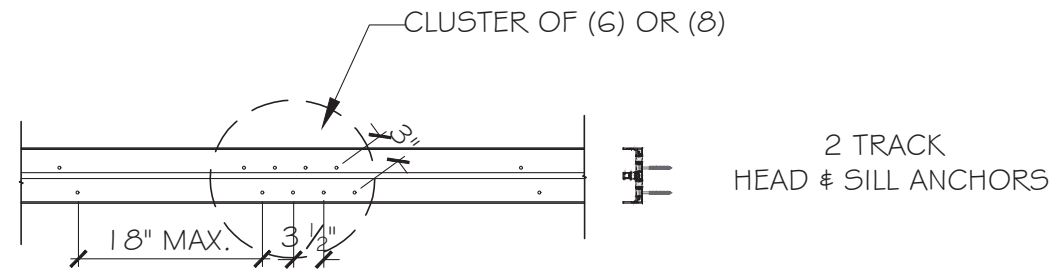
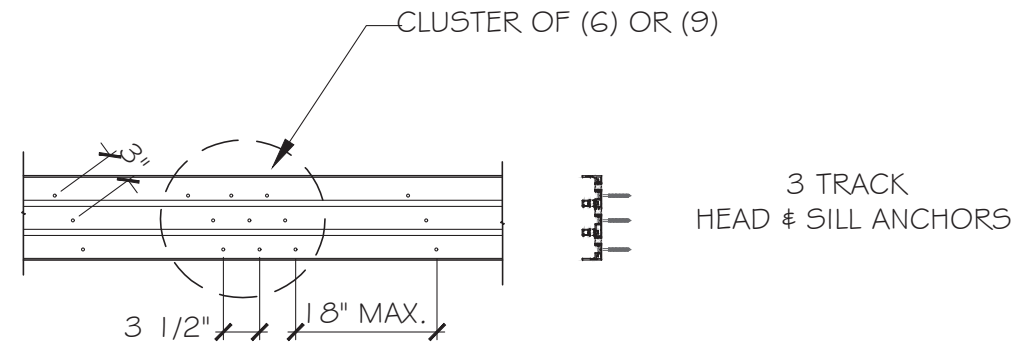
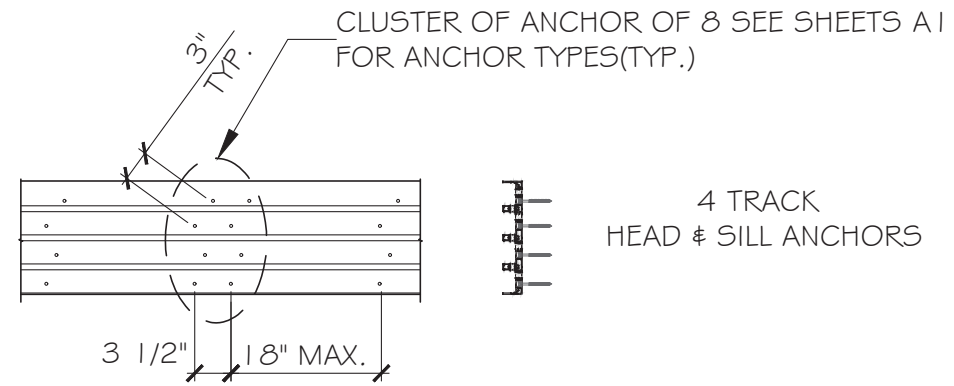
CONCRETE AT HEAD, SILL OR JAMBS $f_c=3050$ psi MIN.
 C-90 HOLLOW OR GROUT FILLED BLOCK AT JAMB ONLY
 $f_m=2000$ psi MIN.



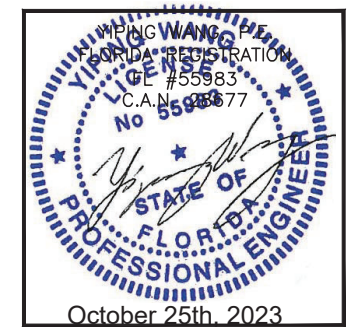
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HEAD AND SILL ANCHOR LOAD CAPACITY CHART - PSF

PANEL HEIGHT (INCH)	PANEL WIDTH (INCH)	ANCHOR TYPE (1/4" MAX. SHIM)			
		AG	A8/A9	B6/B8	C6/C8
102.0	42.0	105.0	105.0	105.0	105.0
	48.0	105.0	105.0	105.0	105.0
	54.0	105.0	105.0	105.0	105.0
	60.0	99.0	105.0	105.0	105.0
	66.0	94.0	105.0	105.0	105.0
	72.0	90.0	105.0	105.0	105.0
108.0	42.0	105.0	105.0	105.0	105.0
	48.0	105.0	105.0	105.0	105.0
	54.0	98.0	105.0	105.0	105.0
	60.0	92.0	105.0	105.0	105.0
	66.0	87.0	105.0	105.0	105.0
	72.0	83.0	105.0	105.0	105.0
114.0	42.0	105.0	105.0	105.0	105.0
	48.0	100.0	105.0	105.0	105.0
	54.0	92.0	105.0	105.0	105.0
	60.0	85.0	105.0	105.0	105.0
	66.0	80.0	105.0	105.0	105.0
	72.0	75.0	105.0	105.0	105.0
120.0	42.0	104.0	105.0	105.0	105.0
	48.0	94.0	105.0	105.0	105.0
	54.0	86.0	105.0	105.0	105.0
	60.0	80.0	105.0	105.0	105.0
	66.0	75.0	105.0	105.0	105.0
	72.0	70.0	105.0	105.0	105.0
126.0	42.0	98.0	105.0	105.0	105.0
	48.0	88.0	105.0	105.0	105.0
	54.0	81.0	105.0	105.0	105.0
	60.0	75.0	105.0	105.0	105.0
132.0	42.0	93.0	105.0	105.0	105.0
	48.0	84.0	105.0	105.0	105.0
	54.0	76.0	105.0	105.0	105.0
	60.0	71.0	105.0	105.0	105.0



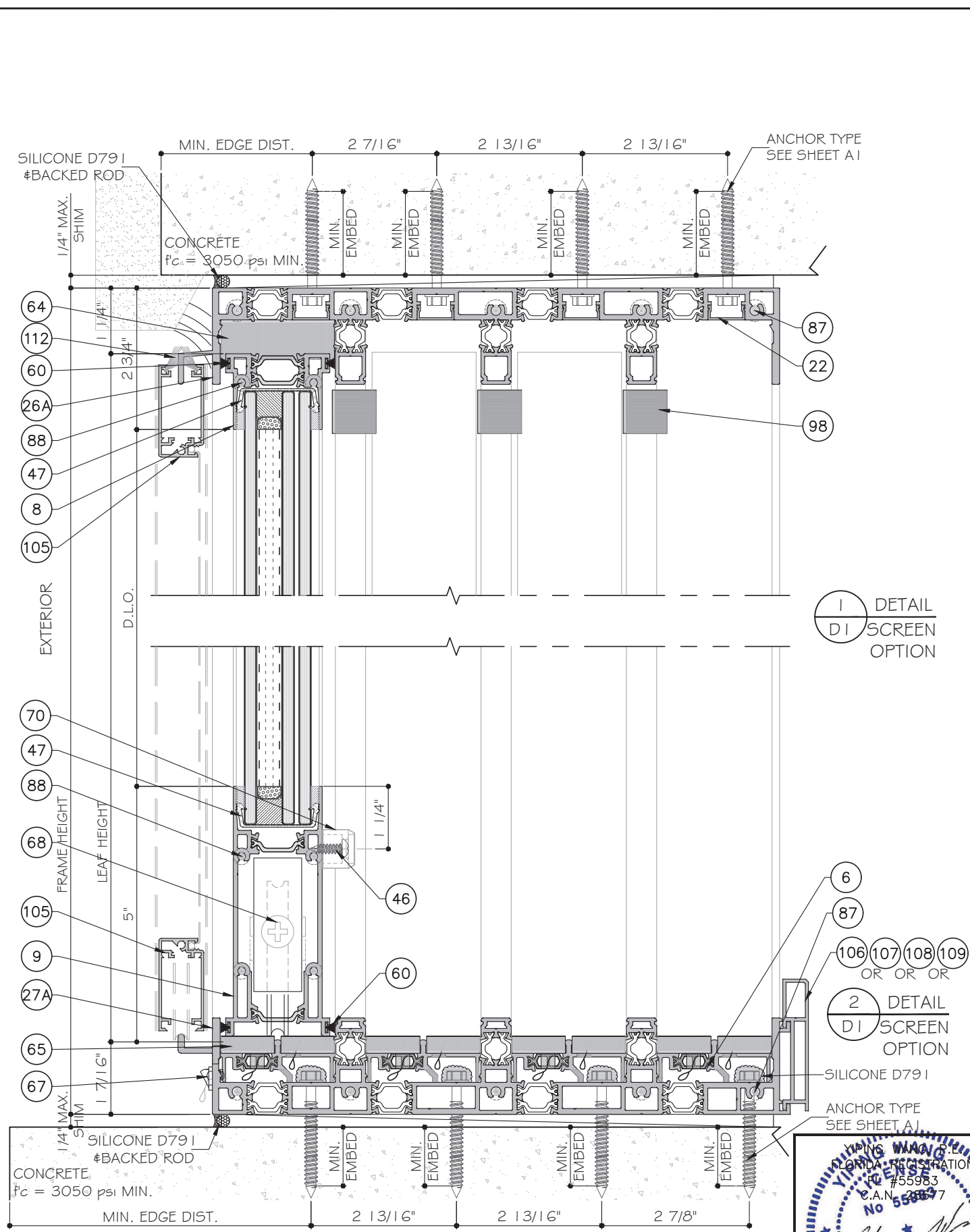
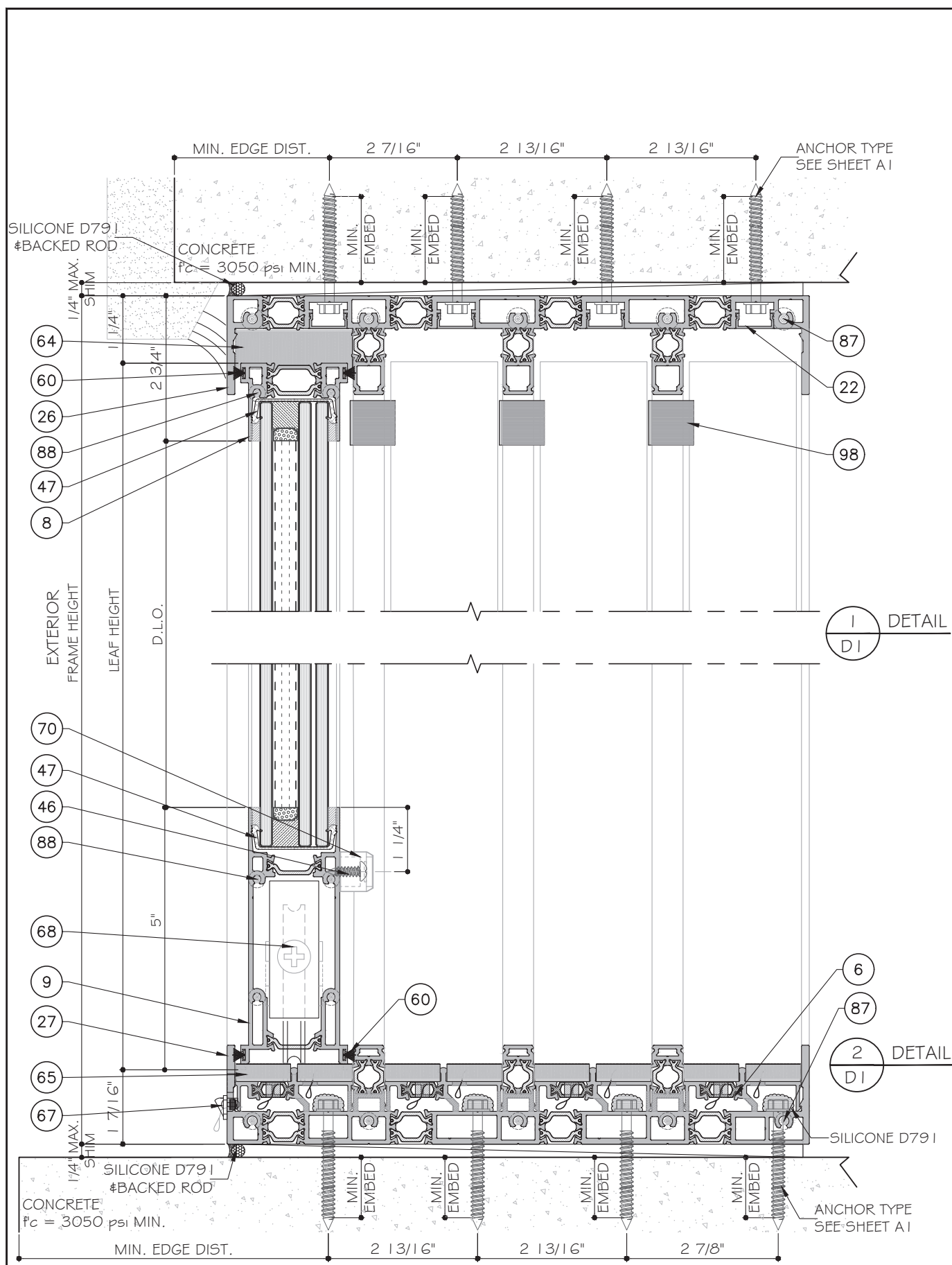
- AG - A CLUSTER OF (6) TYPE "A" ANCHORS AT INTERLOCK OR ASTRAGAL
- A8 - A CLUSTER OF (8) TYPE "A" ANCHORS AT INTERLOCK OR ASTRAGAL
- A9 - A CLUSTER OF (9) TYPE "A" ANCHORS AT INTERLOCK OR ASTRAGAL
- B6 - A CLUSTER OF (6) TYPE "B" ANCHORS AT INTERLOCK OR ASTRAGAL
- B8 - A CLUSTER OF (8) TYPE "B" ANCHORS AT INTERLOCK OR ASTRAGAL
- C6 - A CLUSTER OF (6) TYPE "C" ANCHORS AT INTERLOCK OR ASTRAGAL



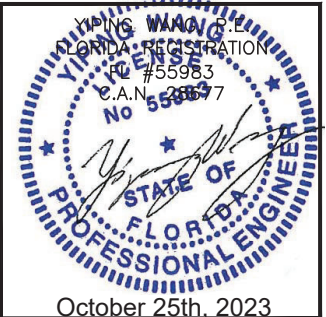
MCY ENGINEERING, INC.
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12781 MIRAMAR PARKWAY #301
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P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

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FOUR (4) TRACK DOOR DETAILS



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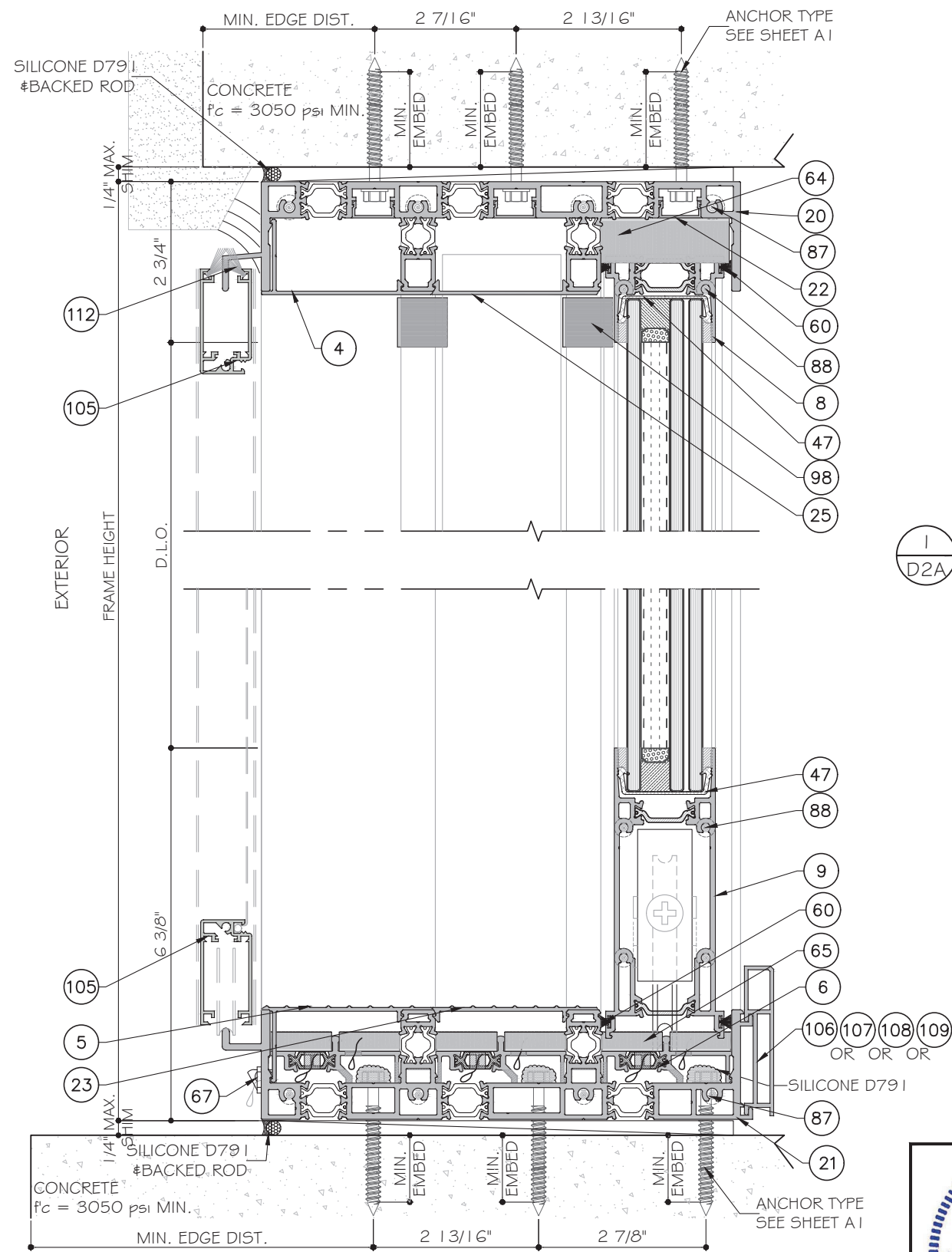
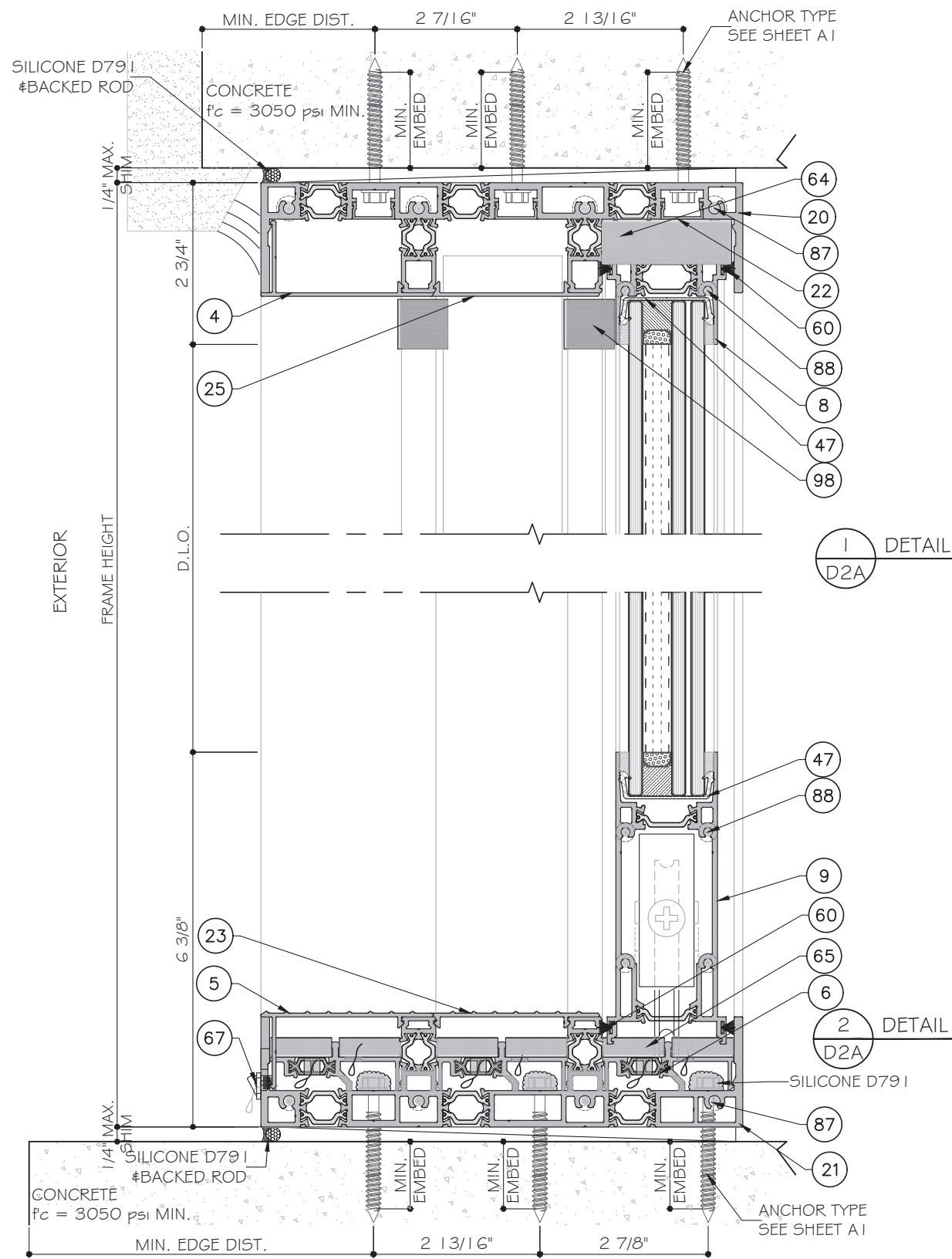
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DRAWING NO. **AD21-56**

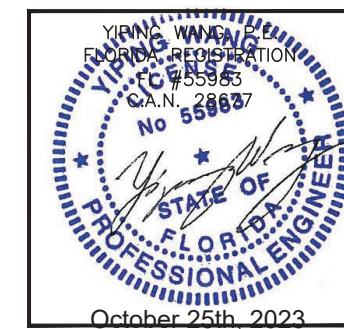
D1

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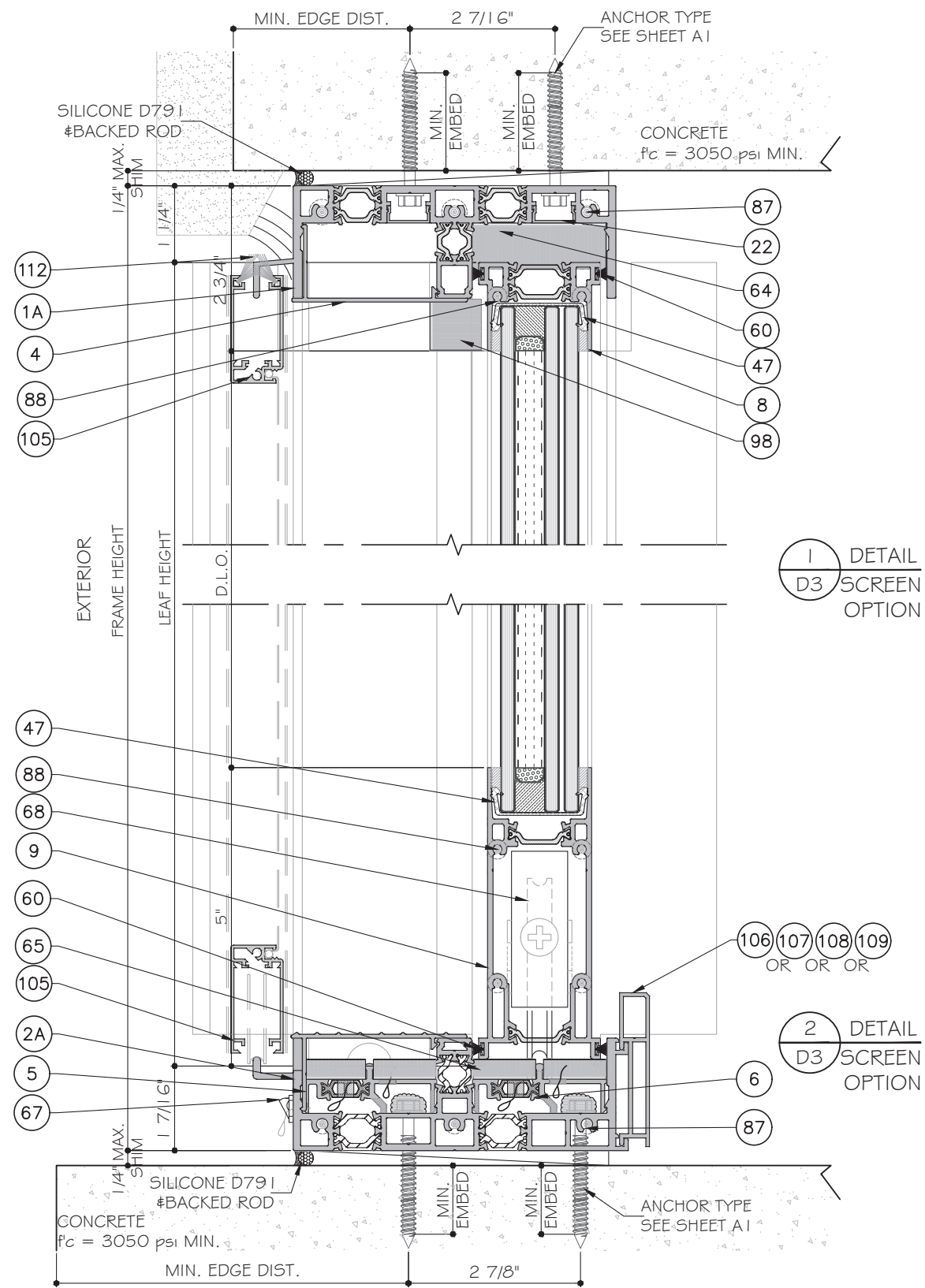
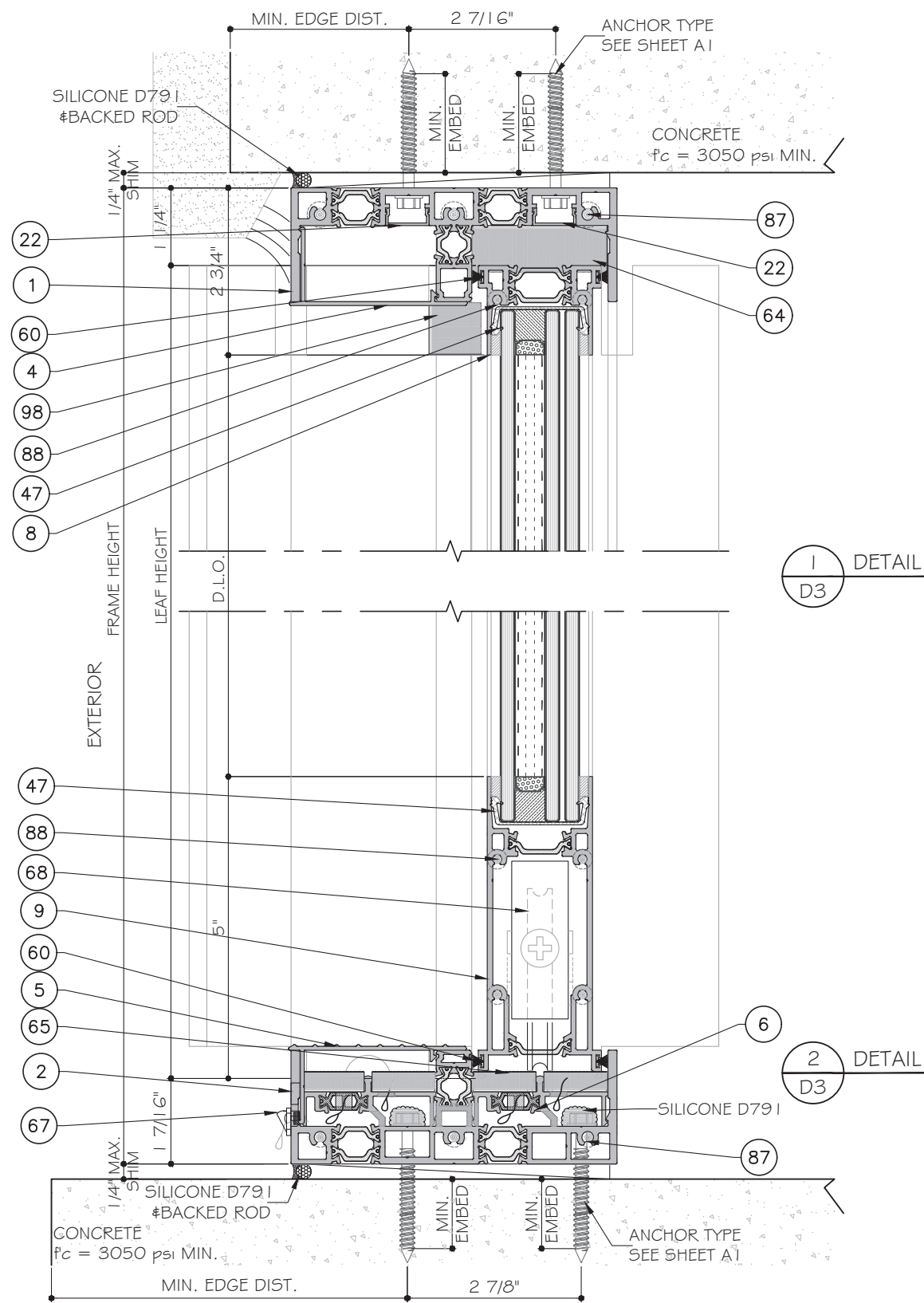
October 25th, 2023



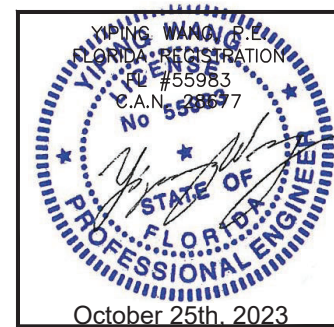
THREE (3) TRACK DOOR DETAILS



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TWO (2) TRACK DOOR DETAILS



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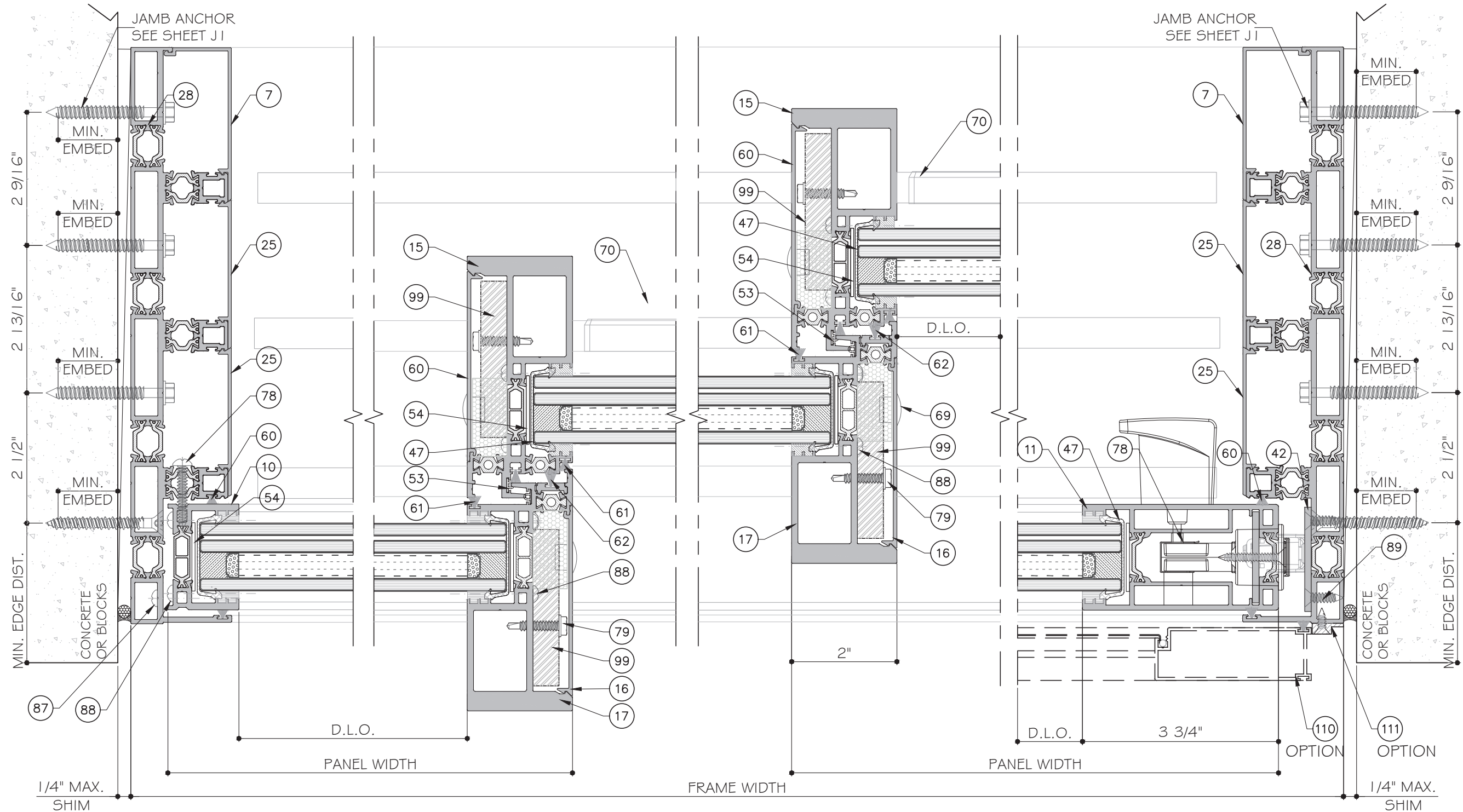
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D3

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1
D4
DETAIL

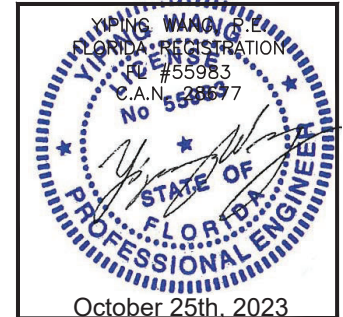
2
D4
DETAIL

3
D4
DETAIL

1A
D4
DETAIL

SEE SHEET K1 FOR LEVEL 1,2,3 AND 4 REINFORCEMENT OPTION.

FOUR (4) TRACK DOOR DETAILS
(LEVEL 4 SHOWN)

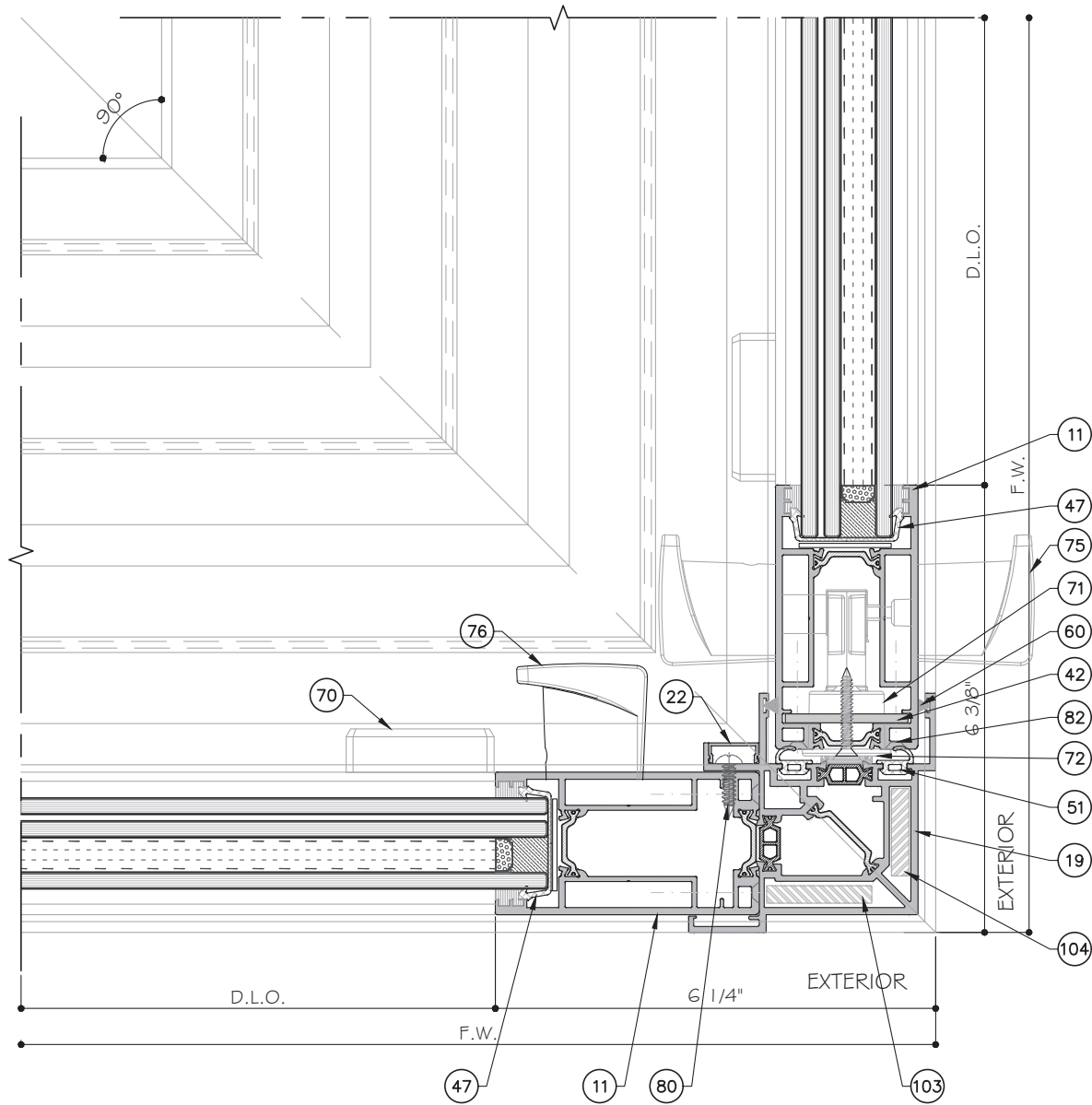


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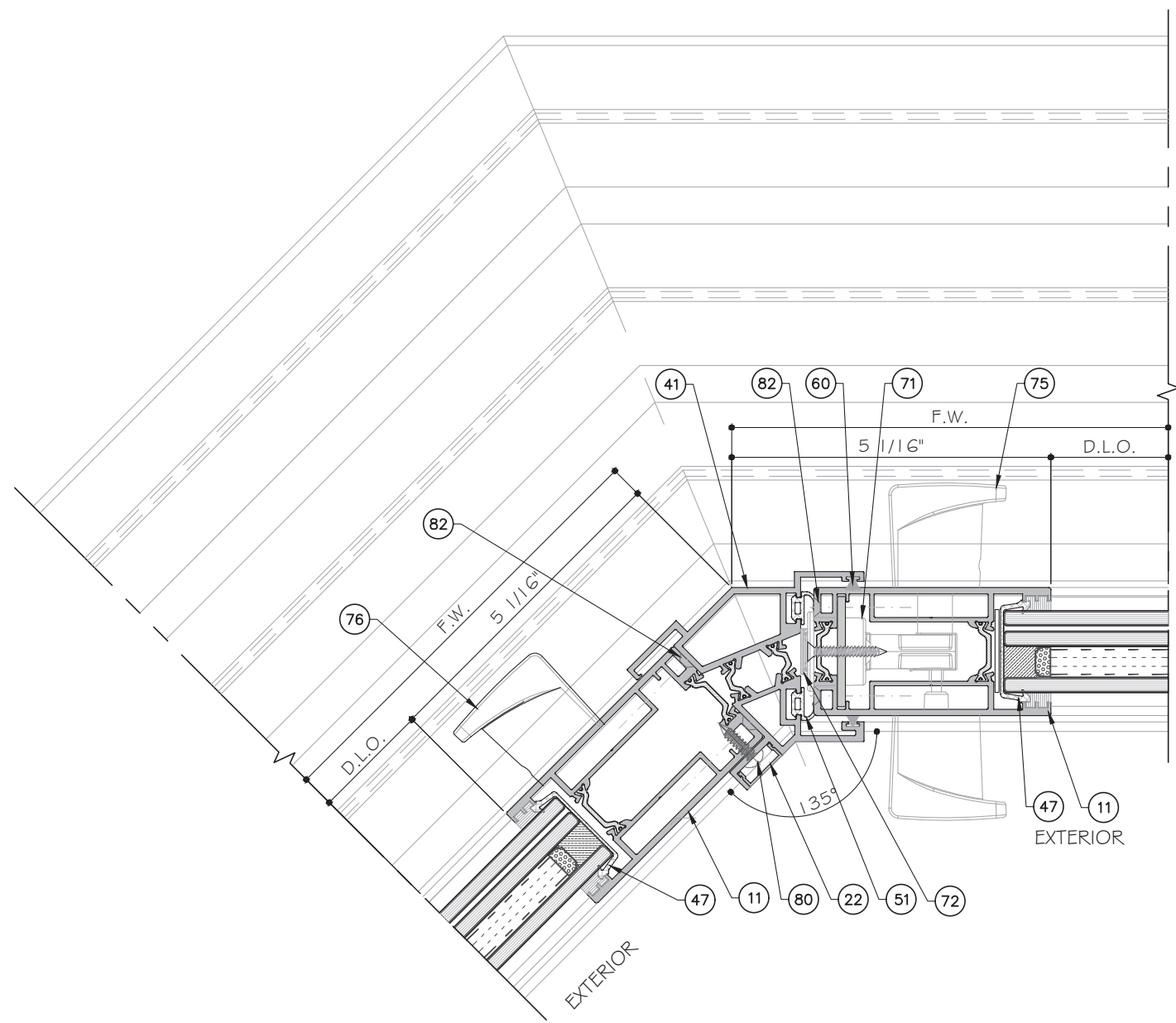
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1
D4.1
DETAIL

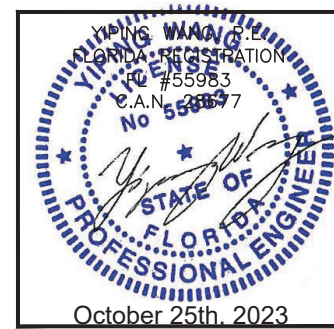


2
D4.1
DETAIL

CORNERS CAN BE USED ON ALL TRACK CONFIGURATIONS

SEE SHEET K1 FOR LEVEL 1,2,3 AND 4 REINFORCEMENT OPTION.

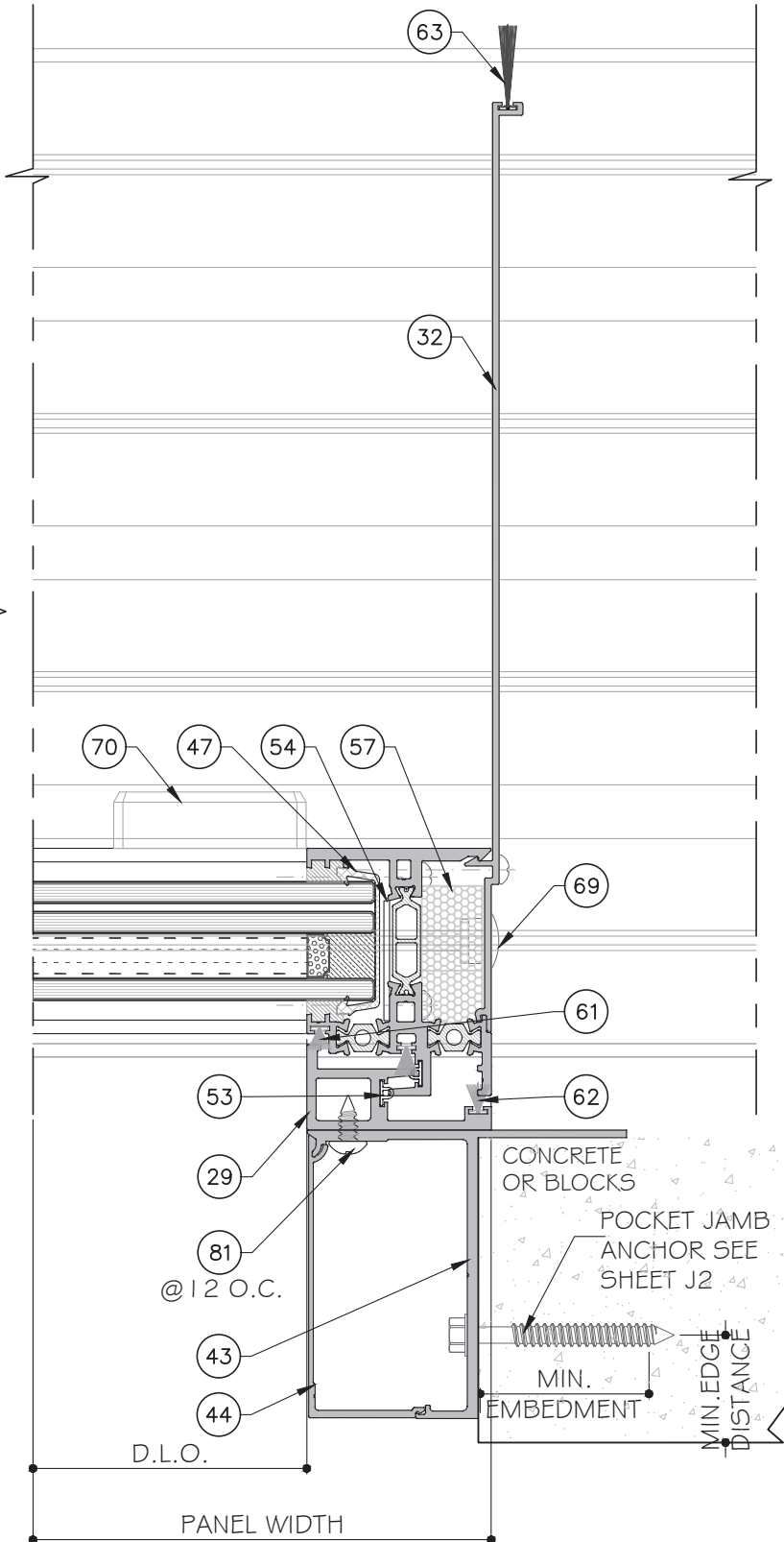
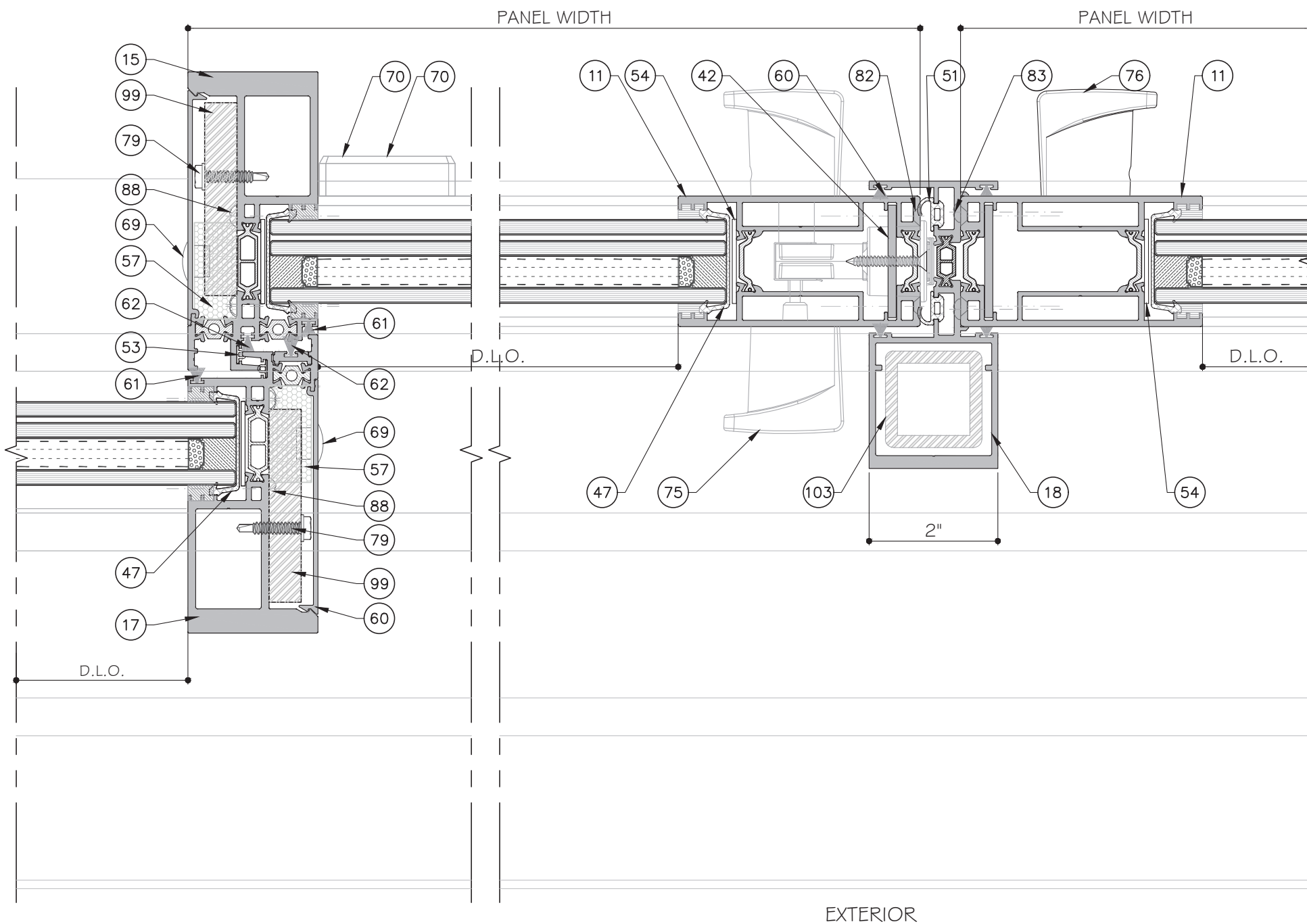
CORNER DETAILS



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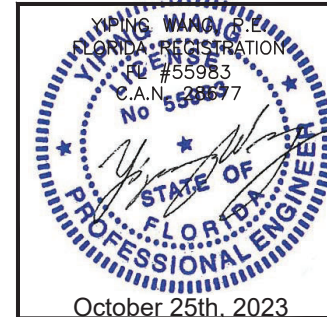
1
D5

2
D5

3
D5

FOUR (4) TRACK DOOR DETAILS
(LEVEL 4 SHOWN)

SEE SHEET K1 FOR LEVEL 1, 2, 3 AND 4
REINFORCEMENT OPTION.



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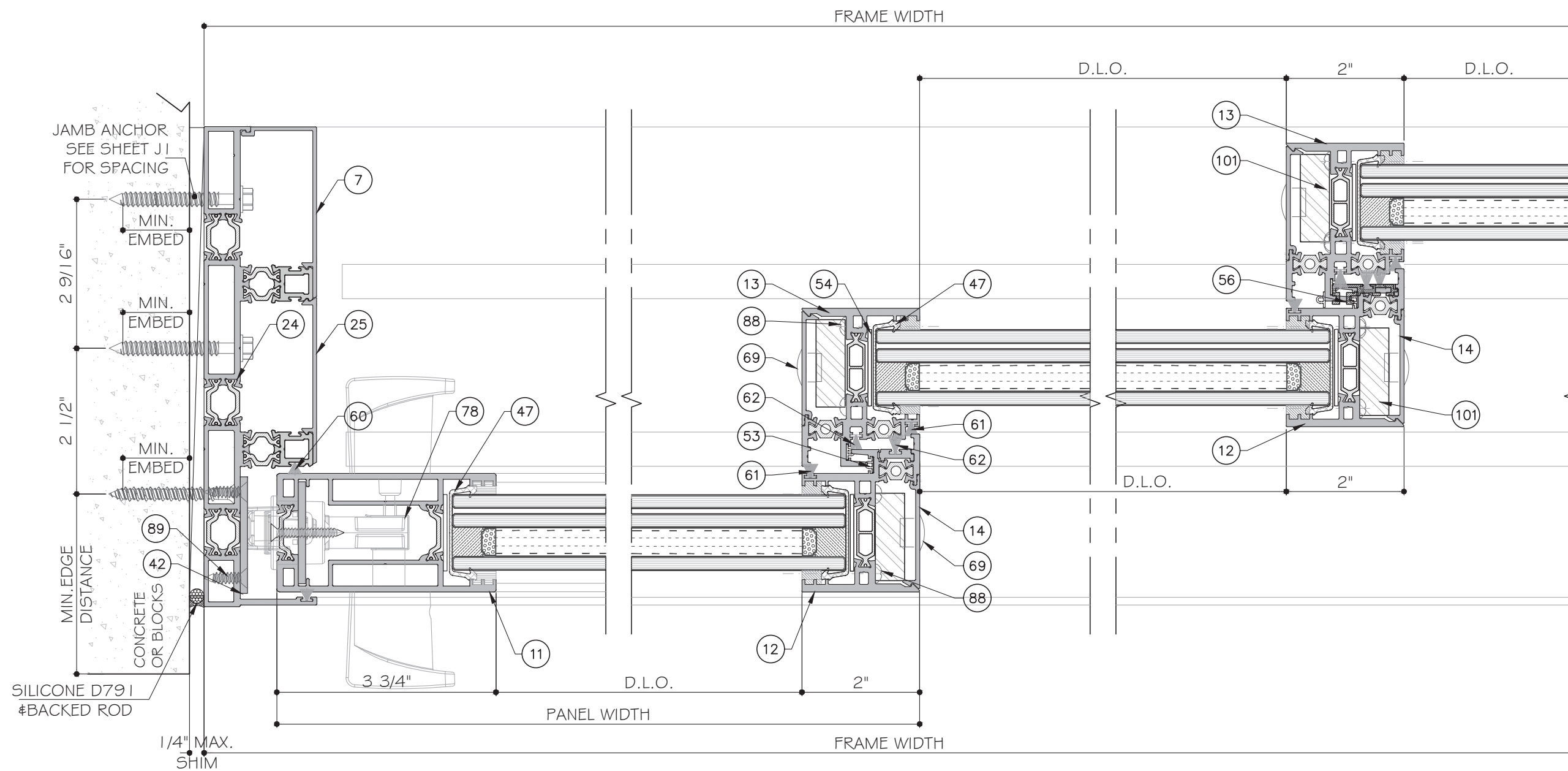
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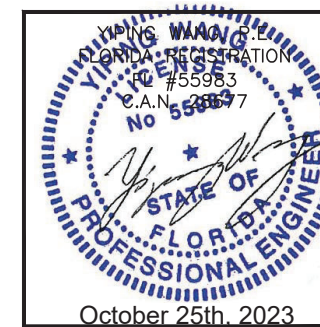
1
D6
DETAIL

2
D6
DETAIL

3
D6
DETAIL

SEE SHEET K1 FOR LEVEL 1, 2, 3 AND 4 REINFORCEMENT OPTION.

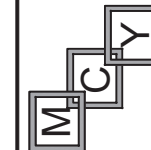
THREE (3) TRACK DOOR DETAILS
(LEVEL 1 SHOWN)



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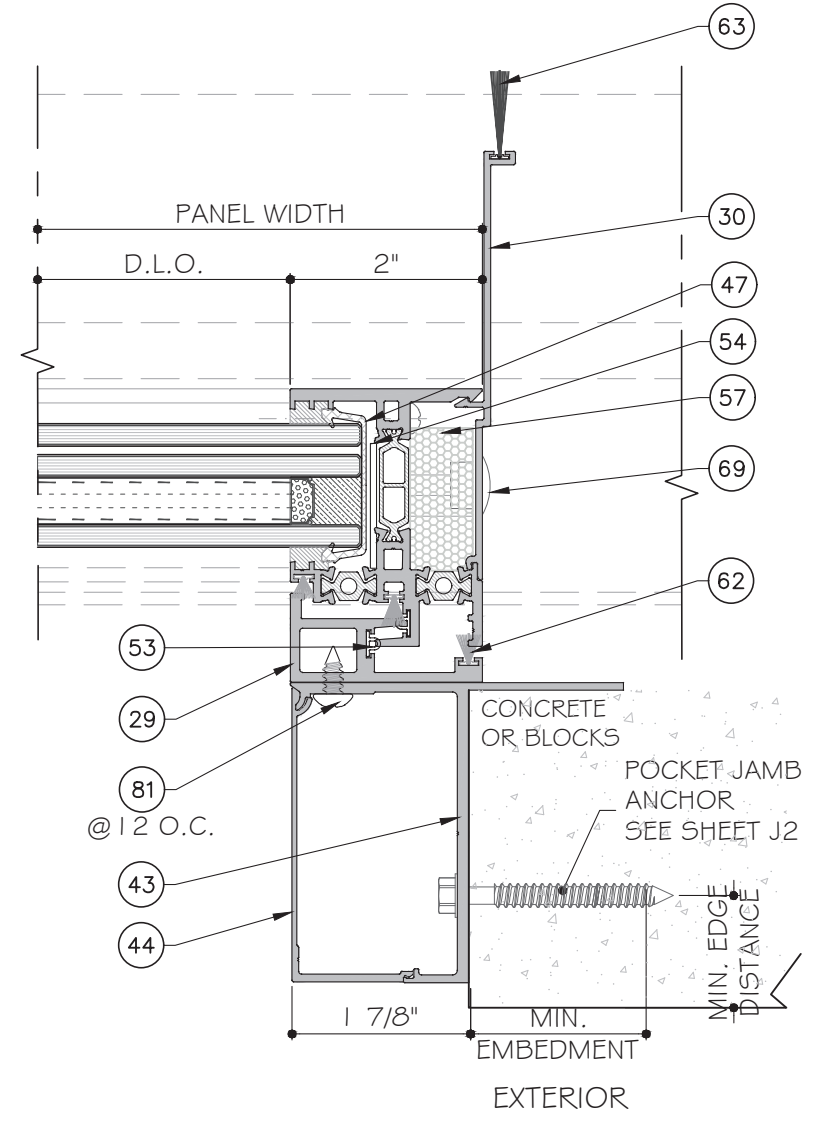
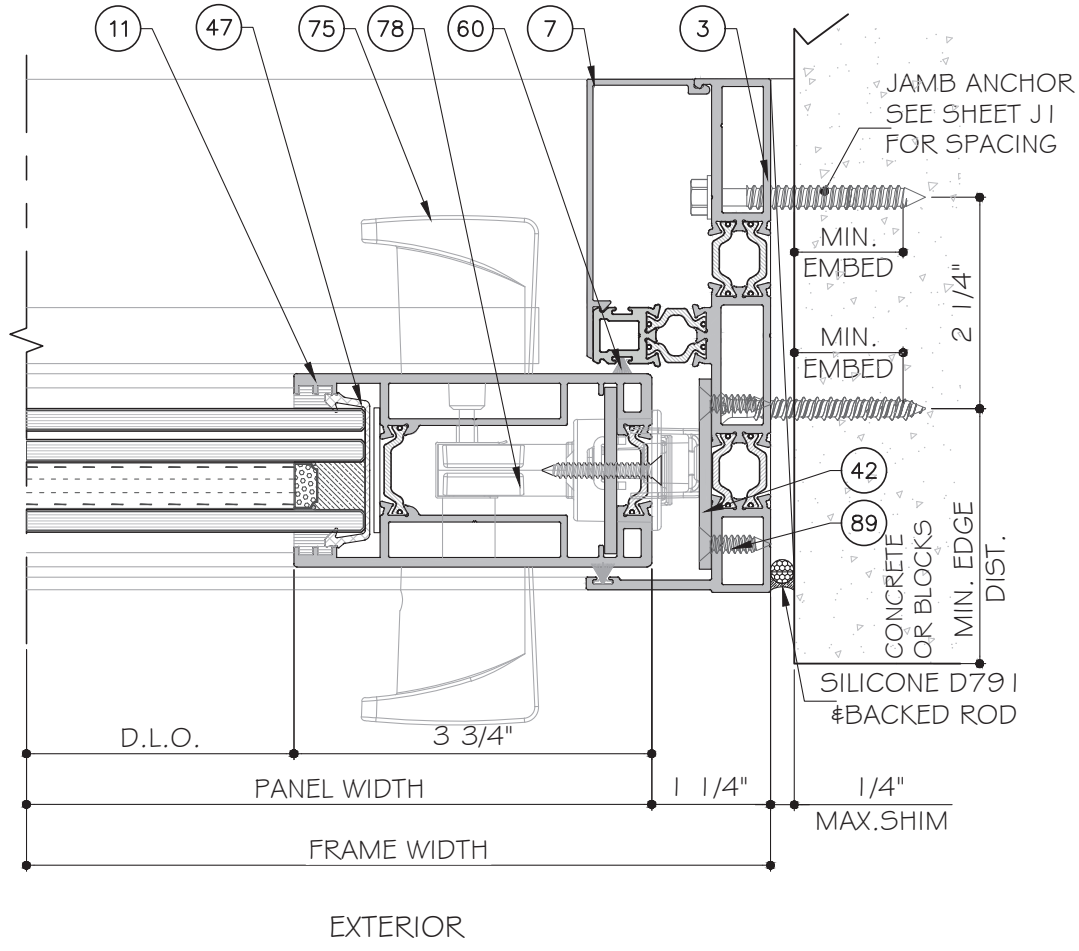
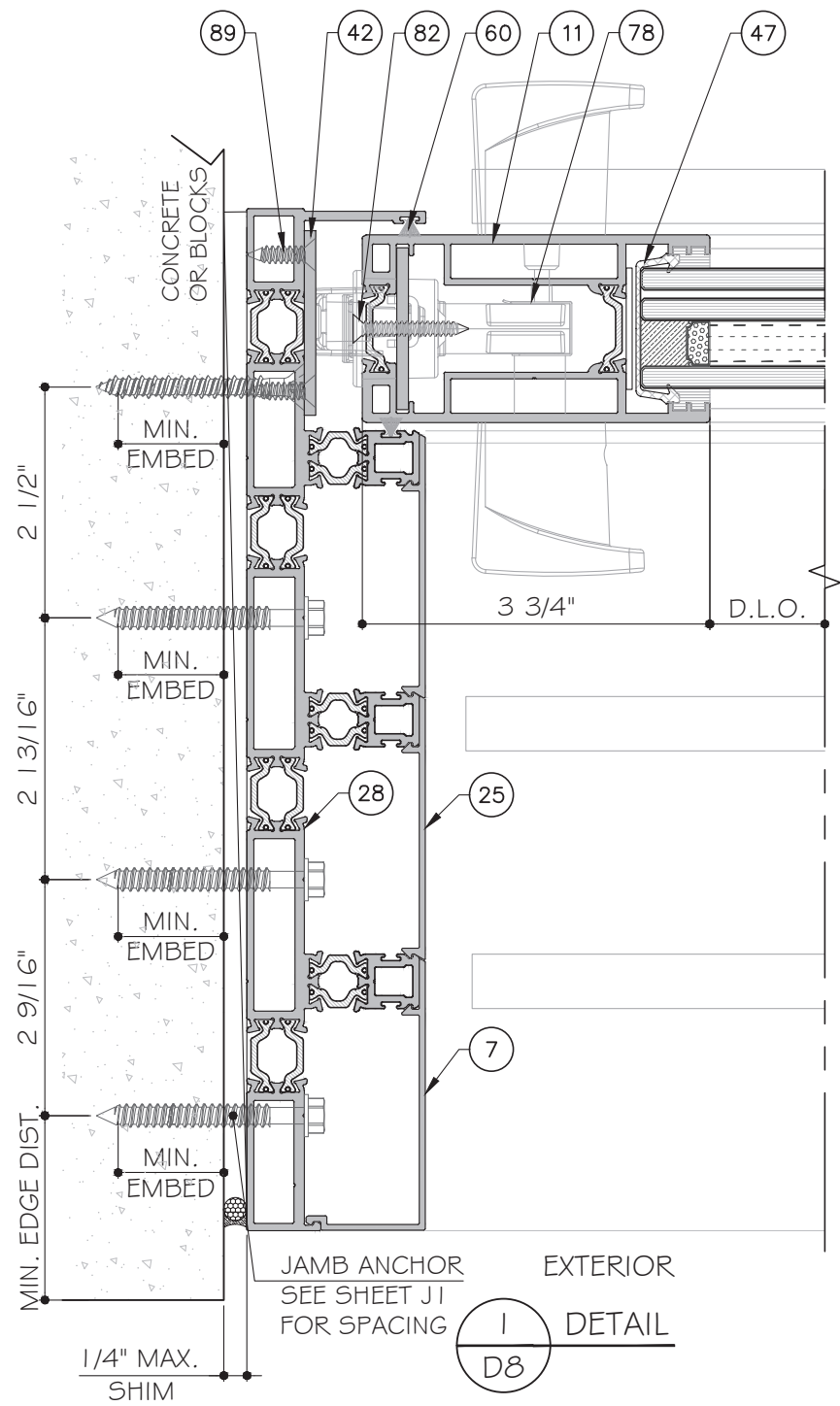
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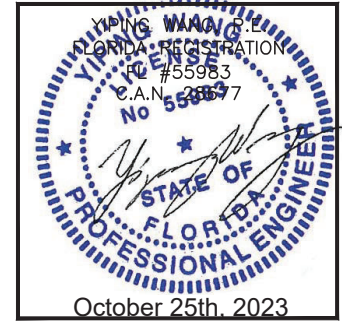
D6

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TWO (2) TRACK DOOR DETAILS



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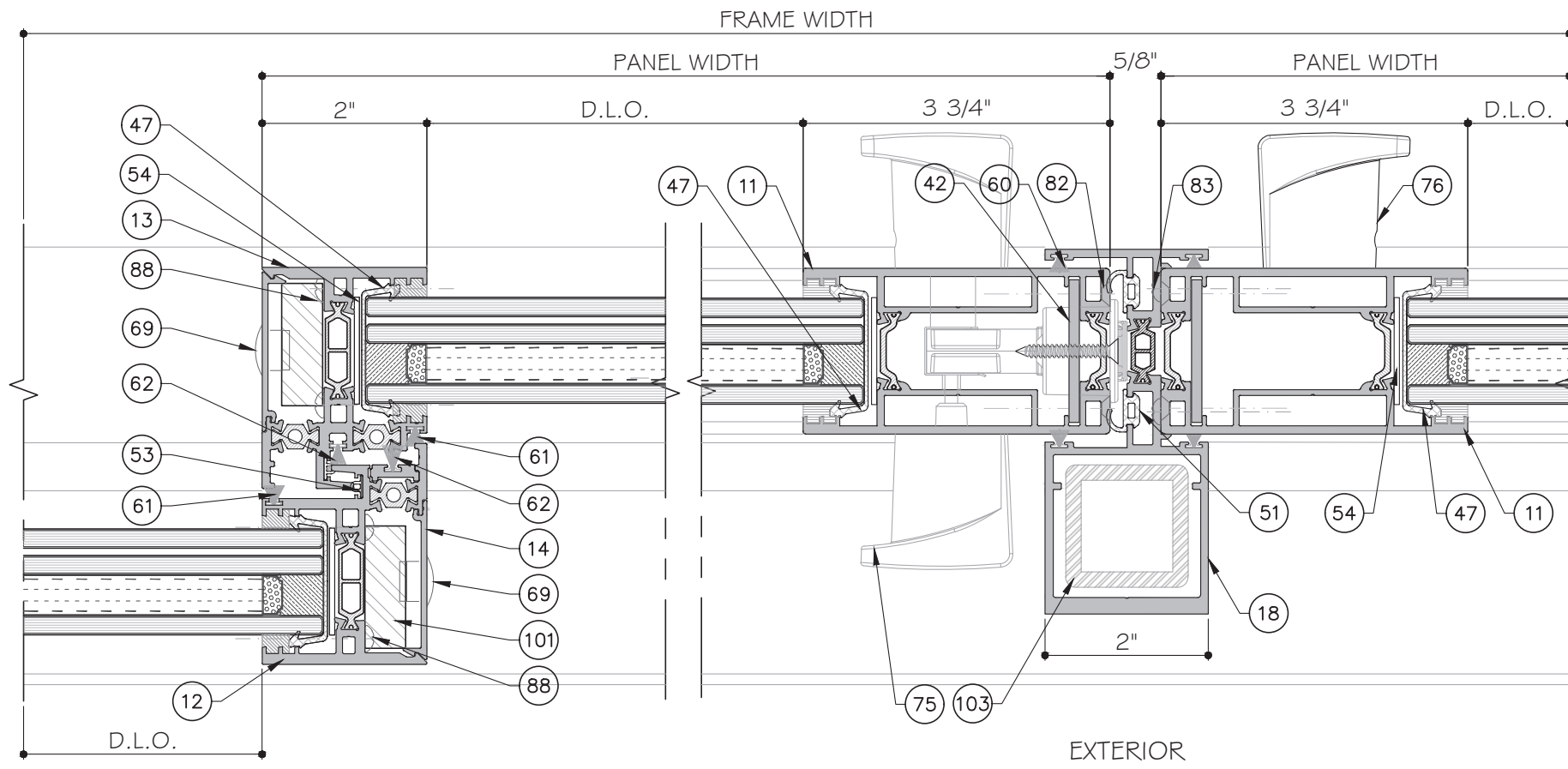
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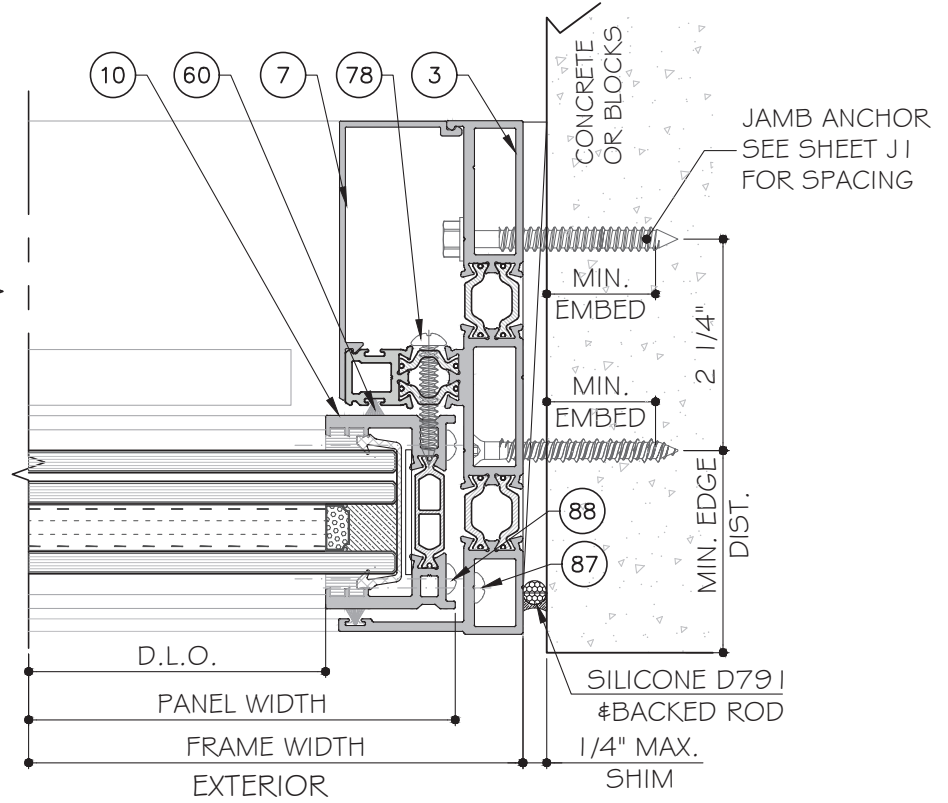
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EXTERIOR

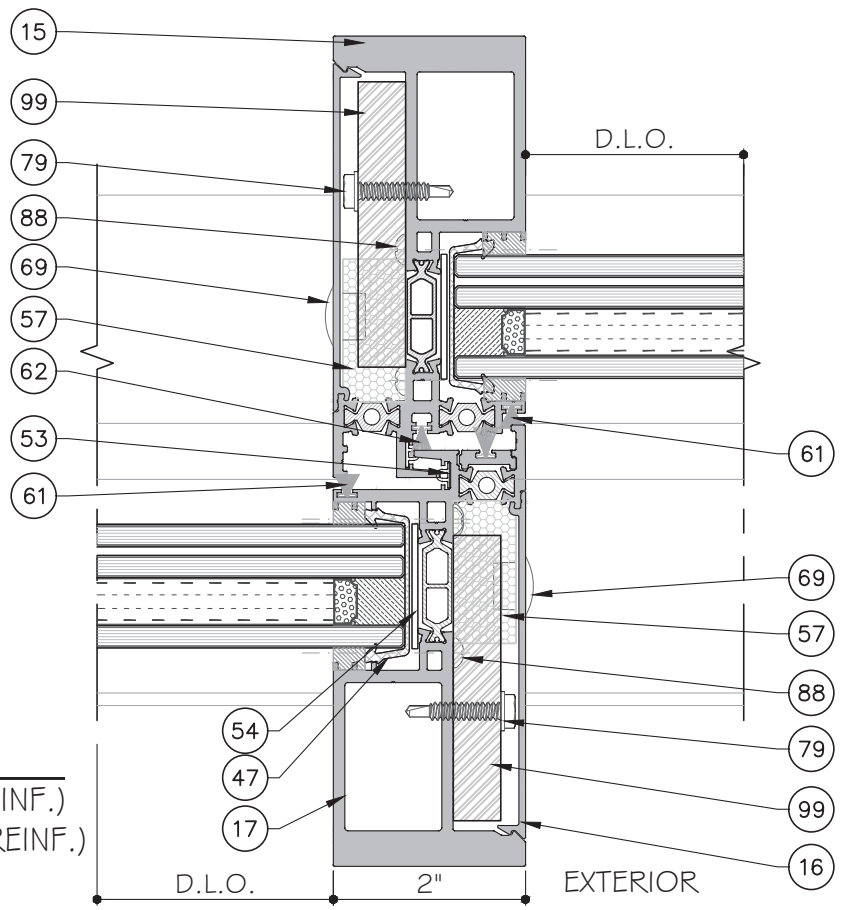


EXTERIOR

1
D9
DETAIL
LEVEL 1

2
D9
DETAIL

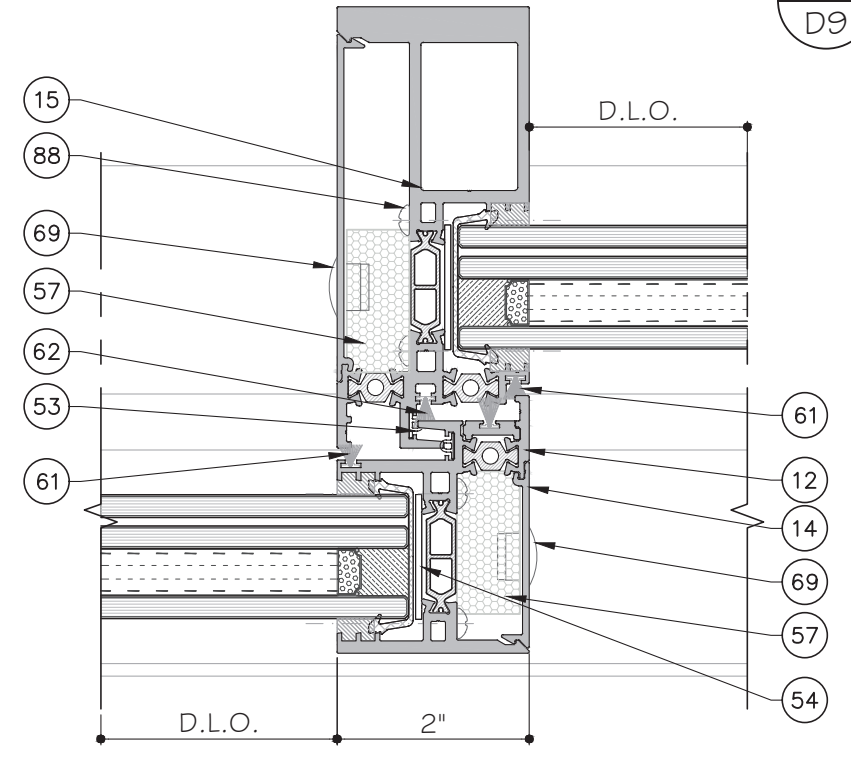
3
D9
DETAIL



D.L.O.

EXTERIOR

1
D9
DETAIL
LEVEL 4 (W/ REINF.)
LEVEL 3 (W/O REINF.)



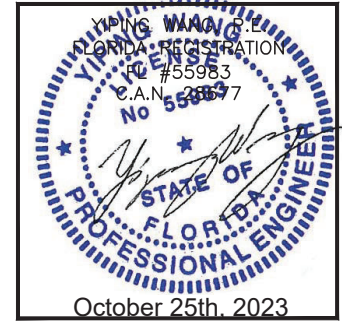
D.L.O.

EXTERIOR

1
D9
DETAIL
LEVEL 2

SEE SHEET K1 FOR LEVEL 1, 2, 3 AND 4 REINFORCEMENT OPTION.

TWO (2) TRACK DOOR DETAILS



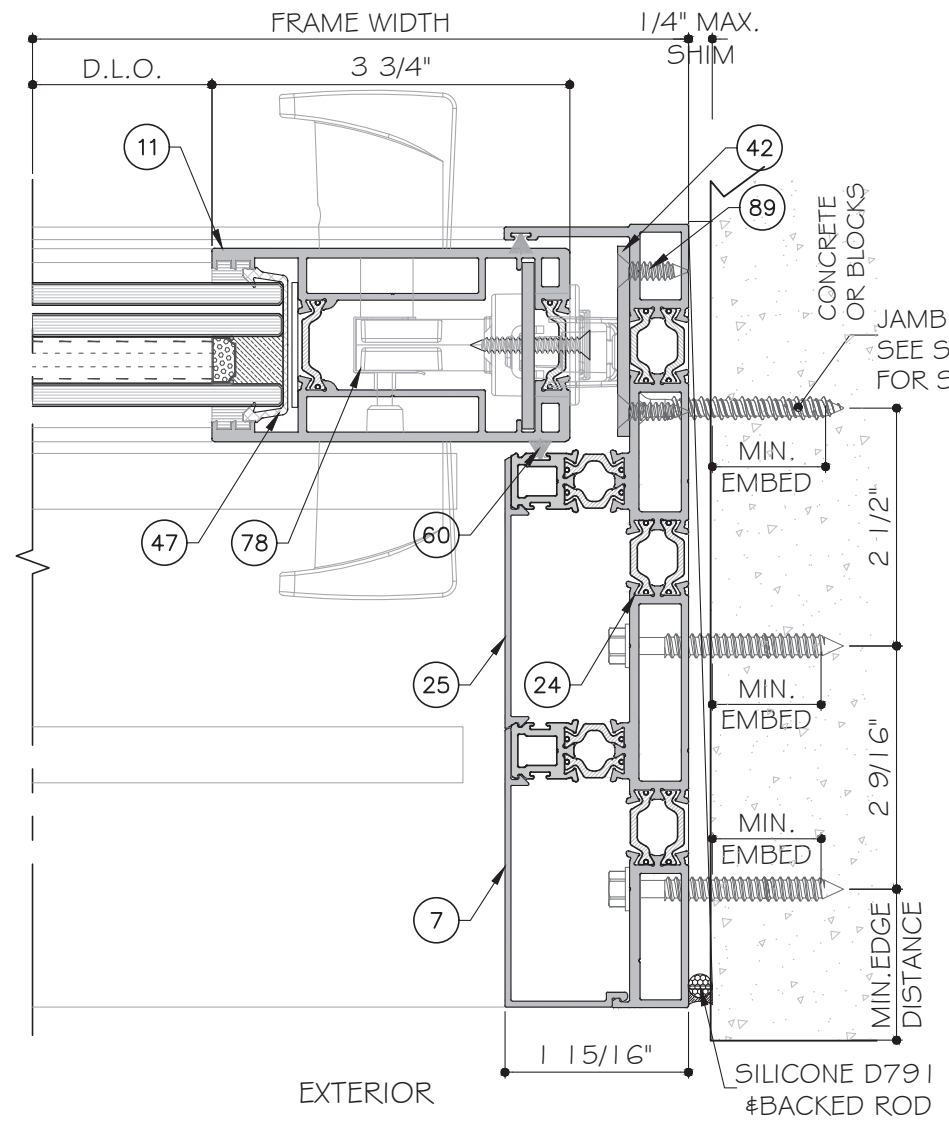
Rev. No.	Date	Drawn By	Description
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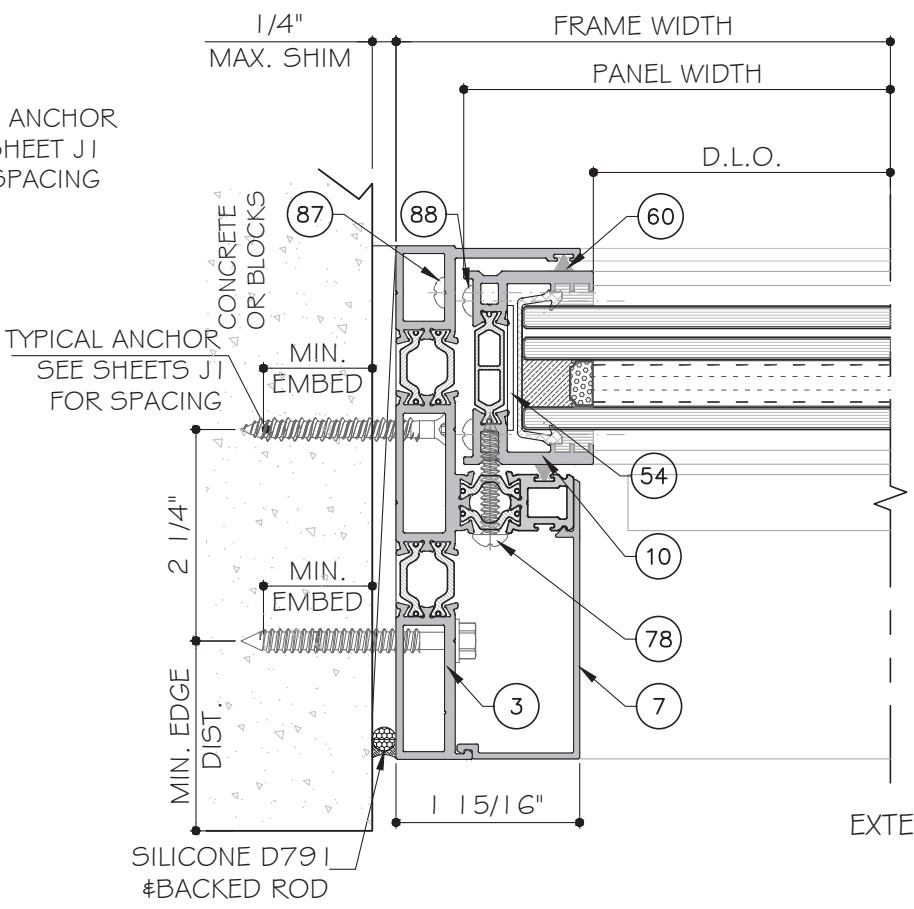
DRAWING NO. **AD21-56**

D9

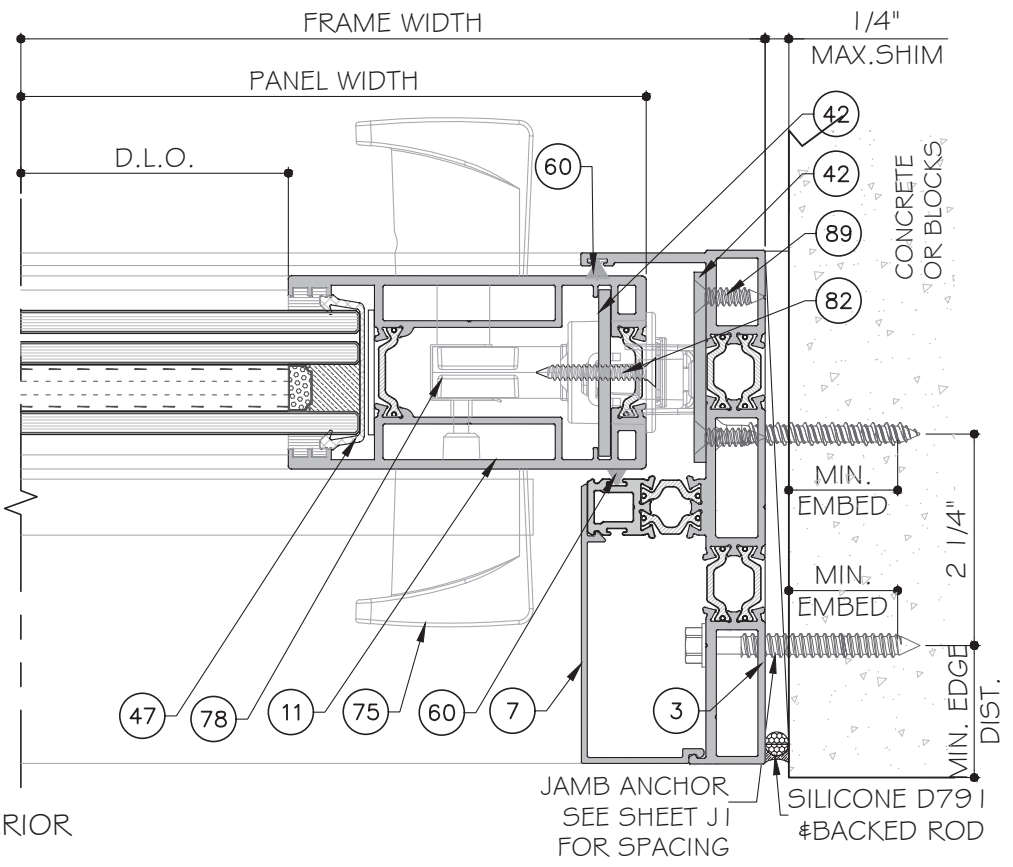
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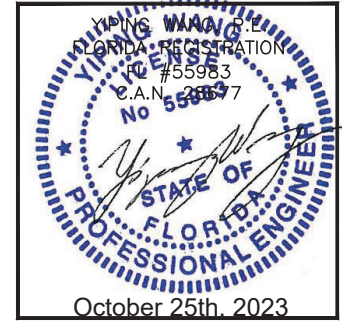
1
DIO



2
DIO



3
DIO



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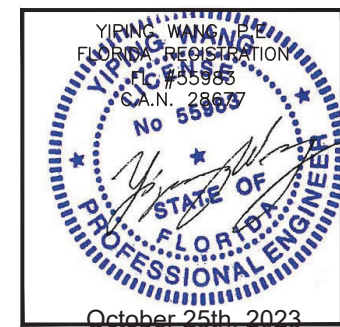
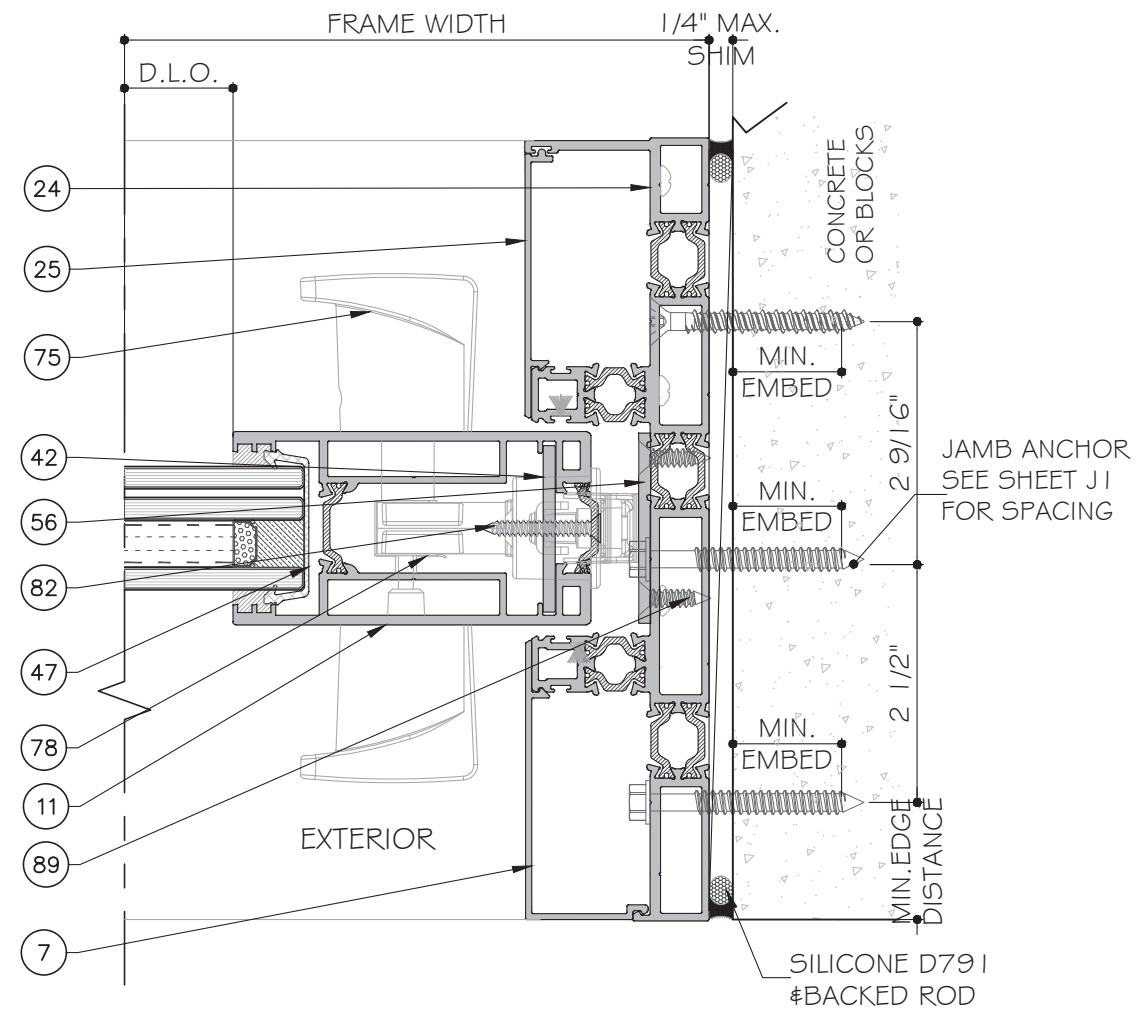
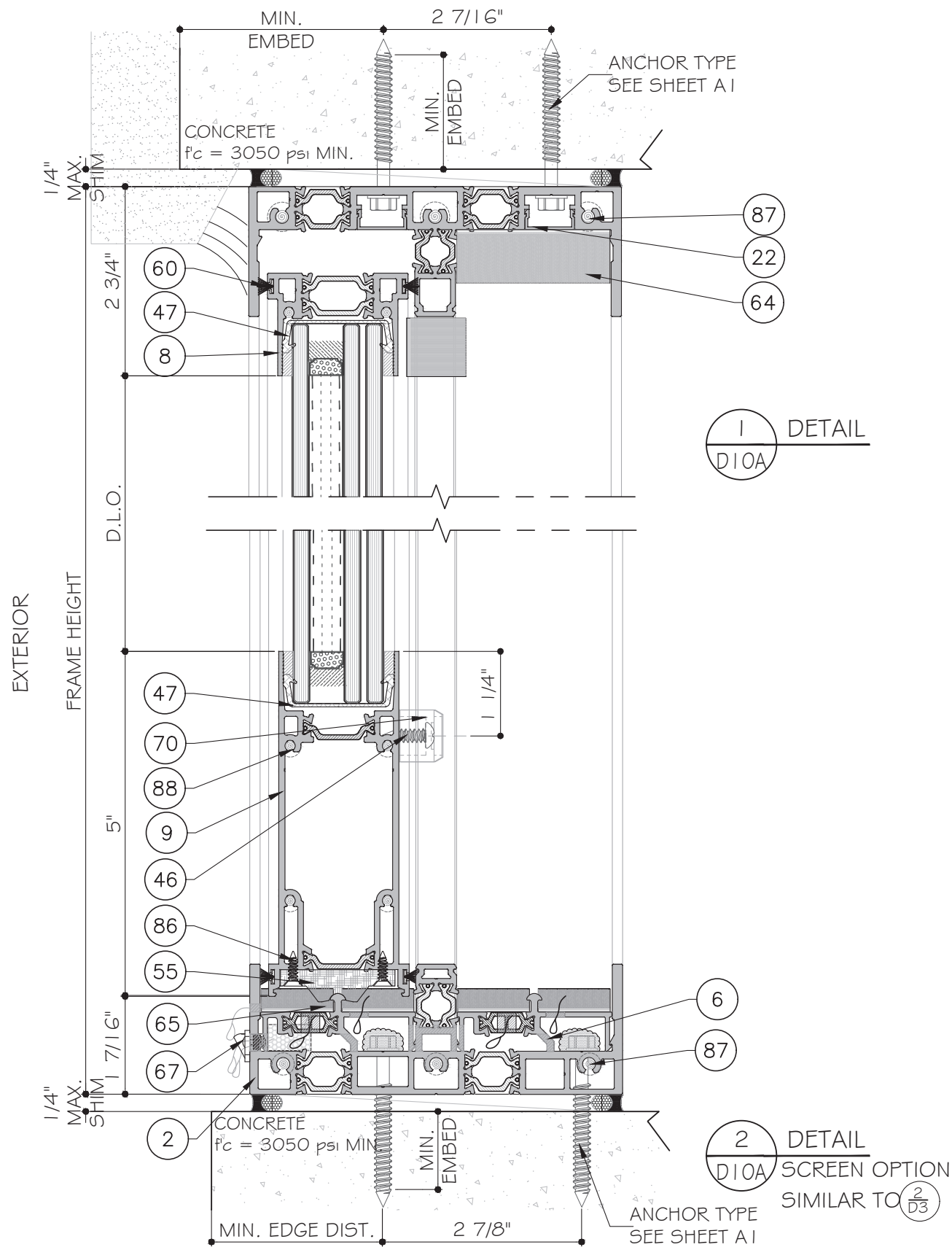
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DRAWING NO. **AD21-56**

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October 25th, 2023

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Miami, FL 33138
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Rev. No.	Date	Drawn By	Description
R2	09.14.2023	James	FBC 2023 UPDATE

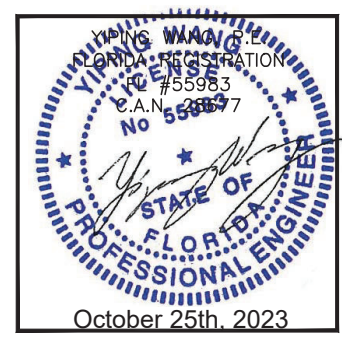
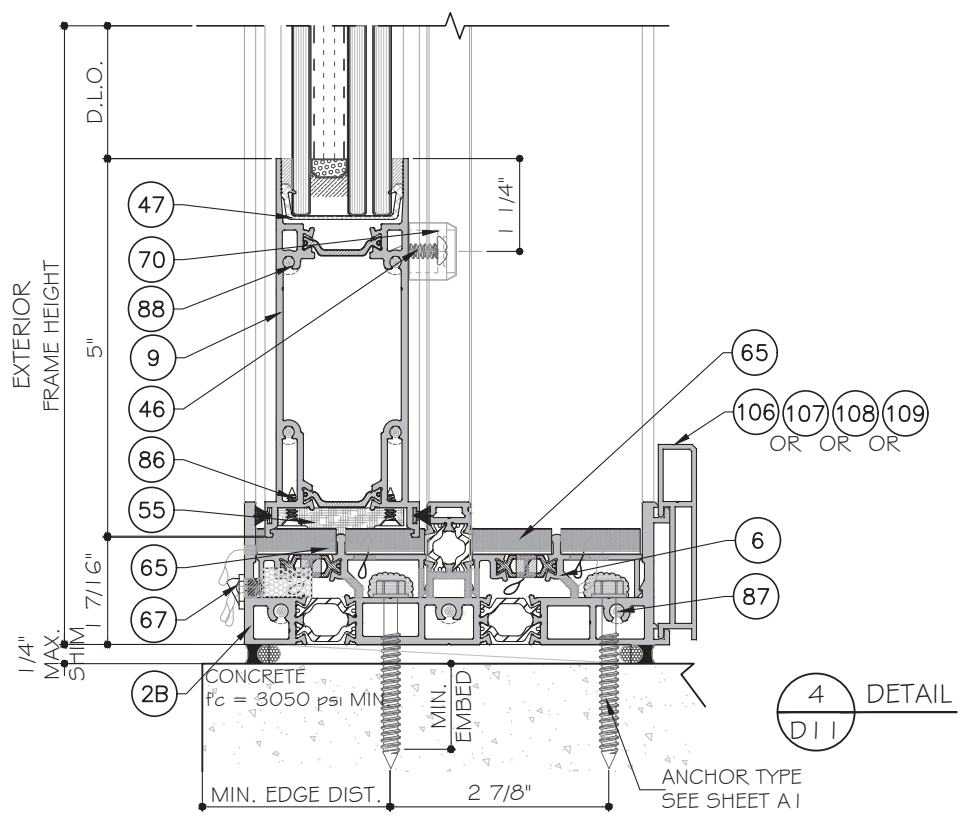
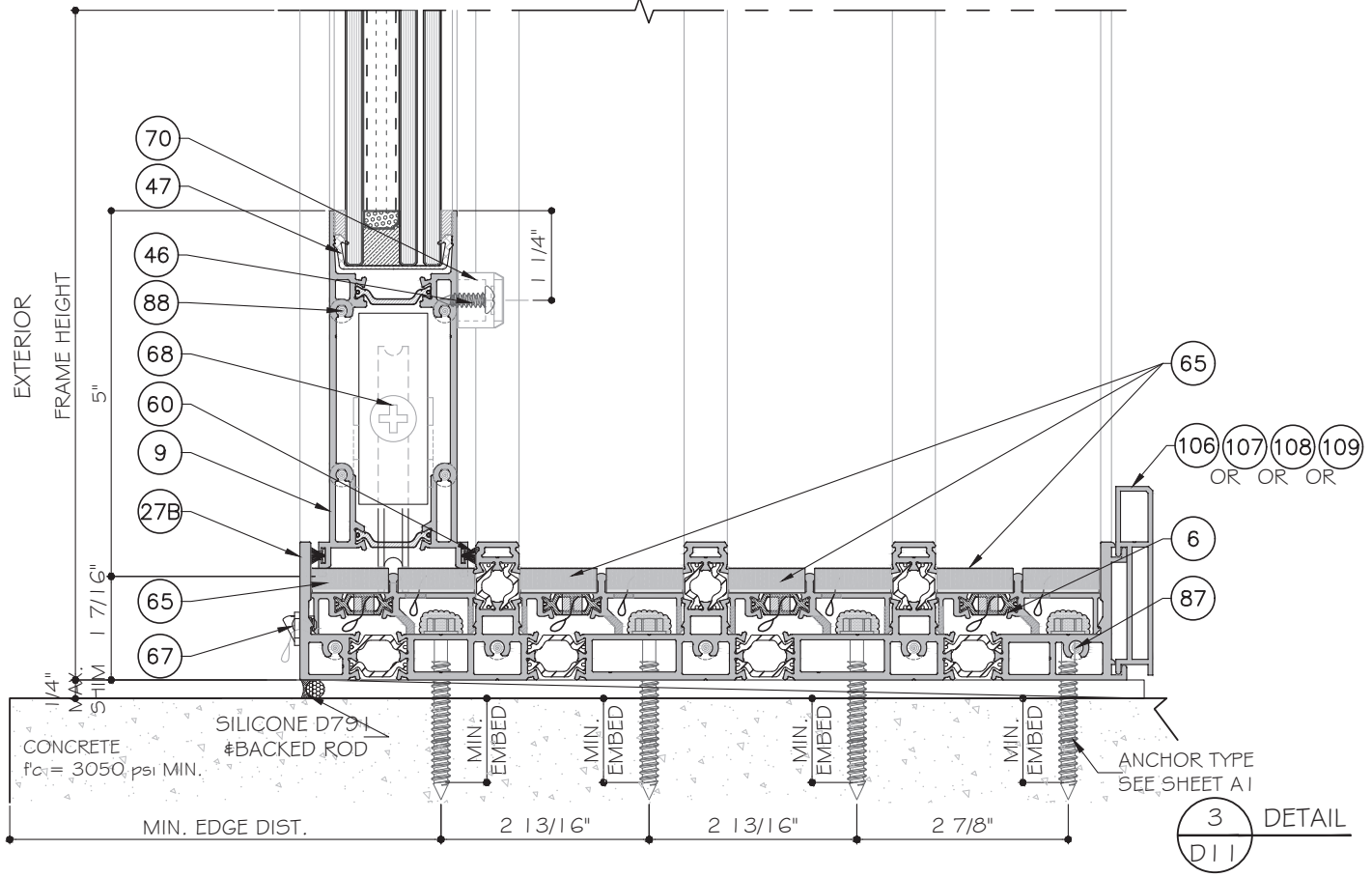
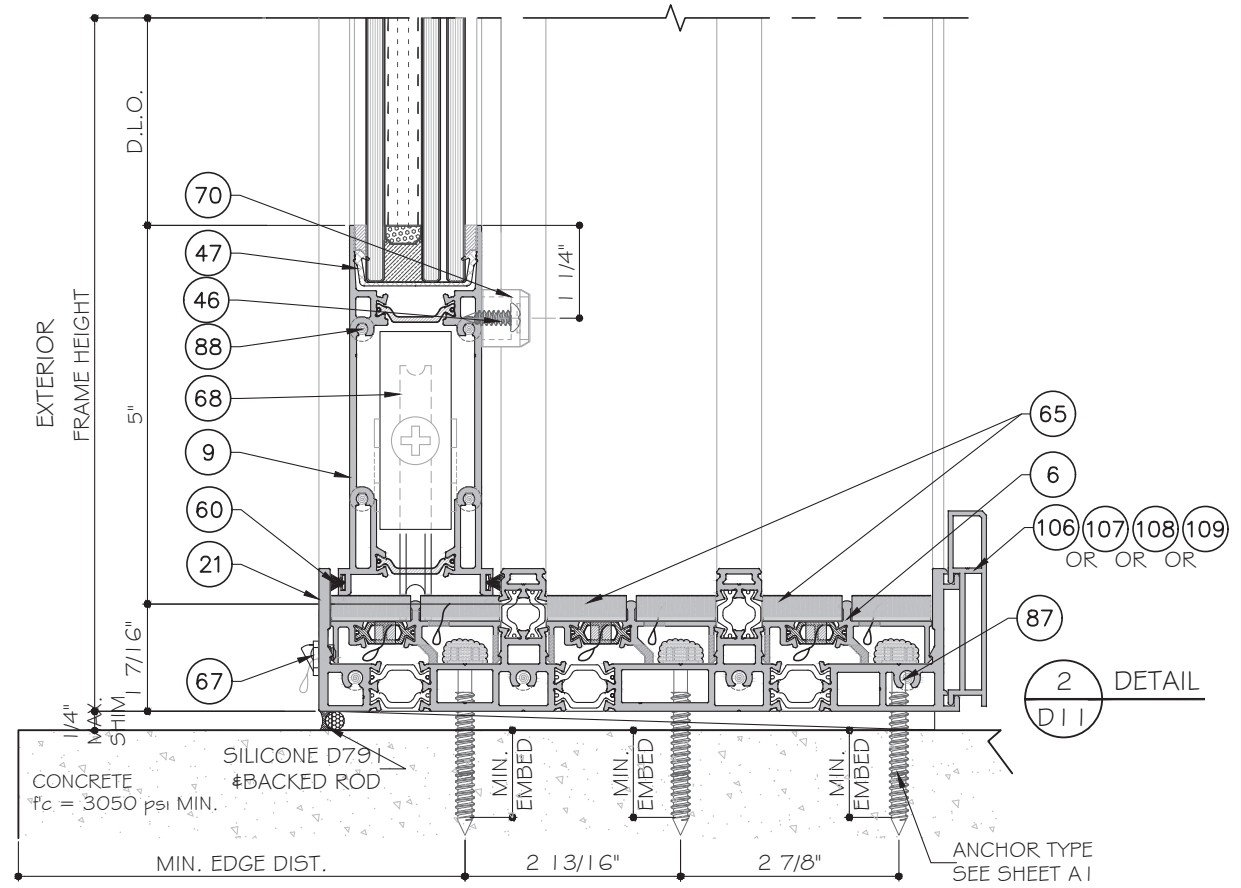
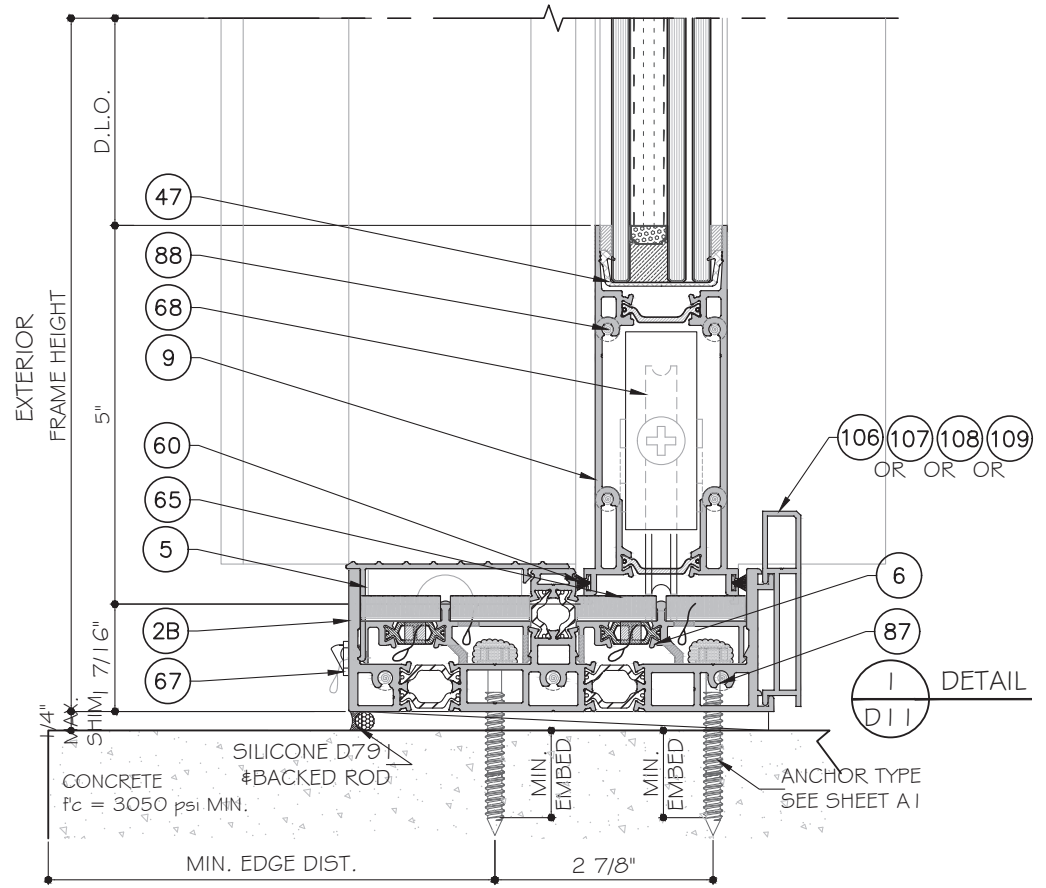
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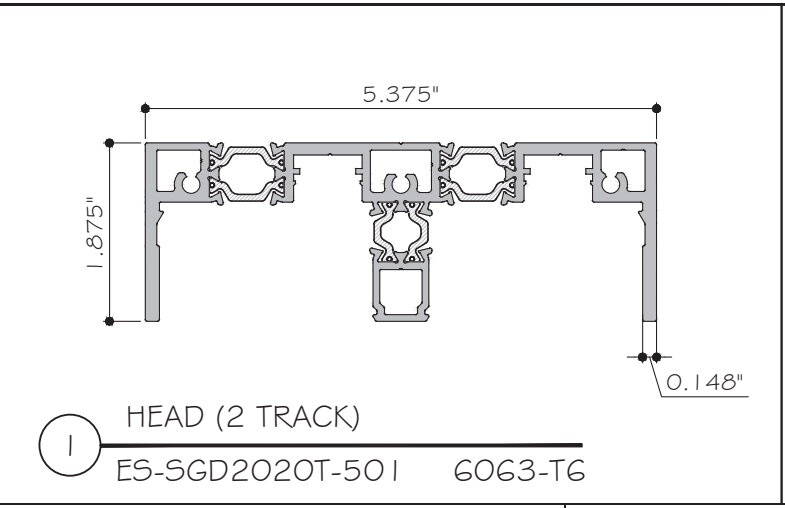
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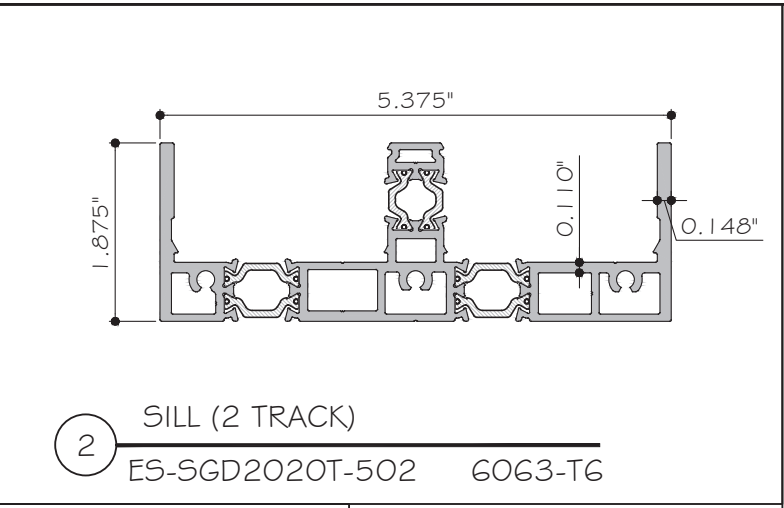
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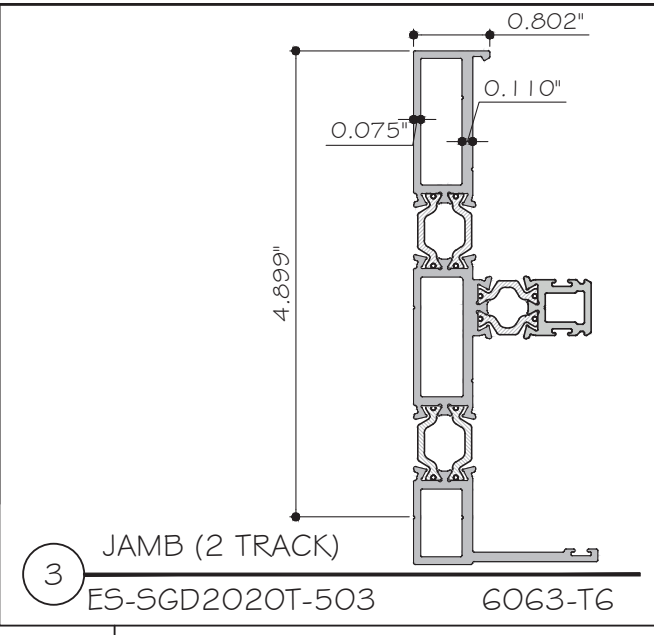
Sheet No. **29 OF 35**



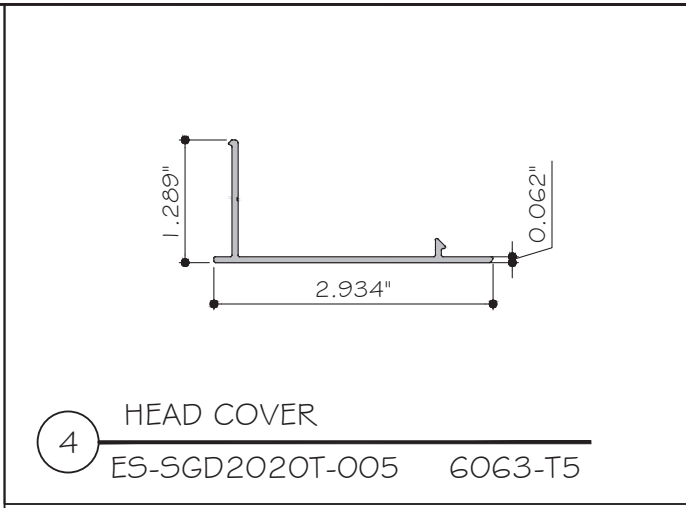
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ES-SGD2020T-501 6063-T6



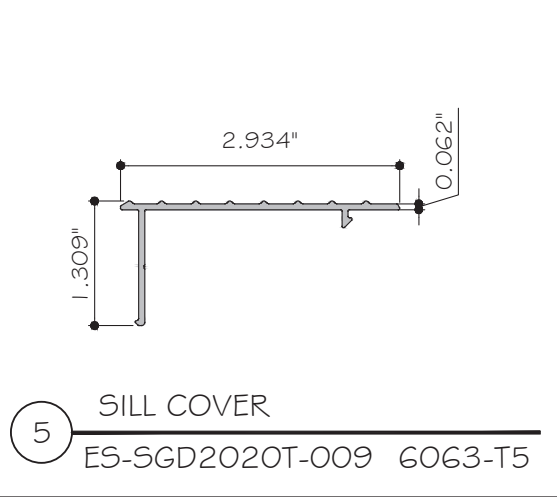
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ES-SGD2020T-502 6063-T6



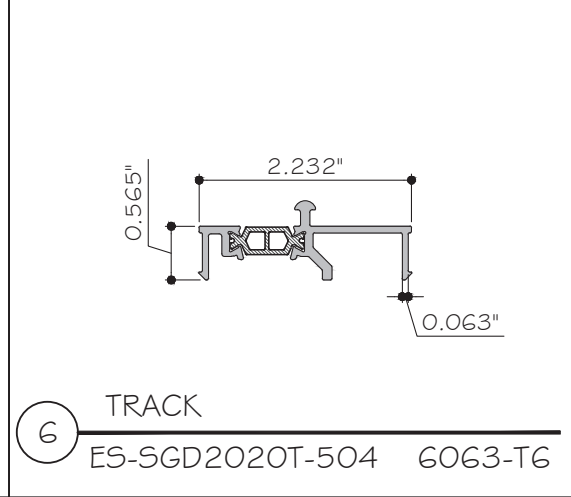
3 JAMB (2 TRACK)
ES-SGD2020T-503 6063-T6



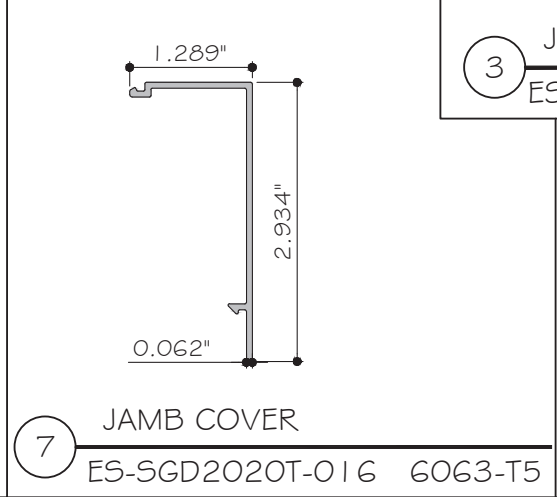
4 HEAD COVER
ES-SGD2020T-005 6063-T5



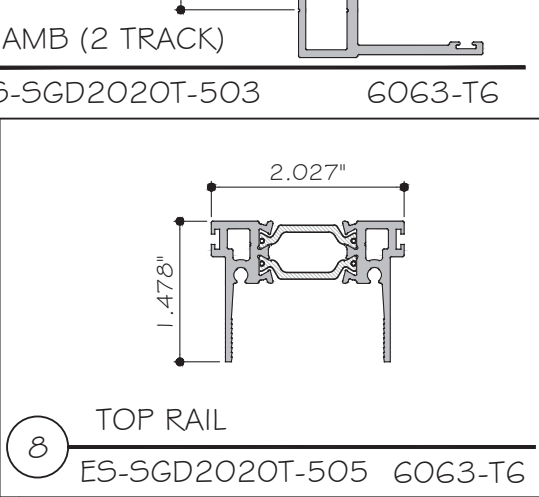
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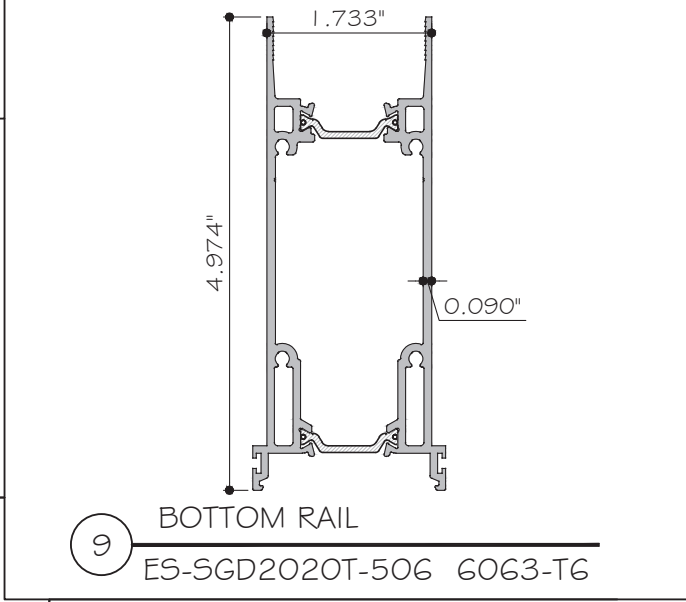
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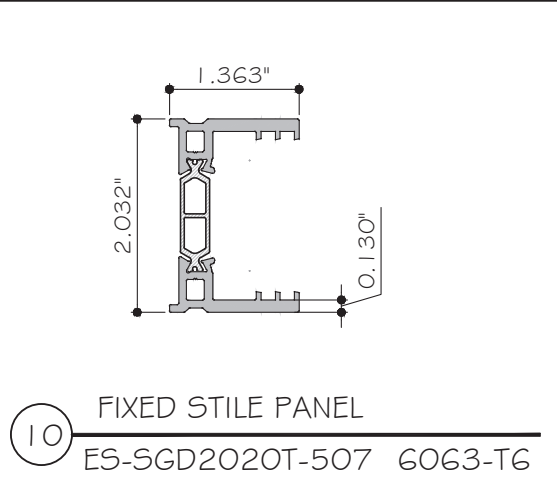
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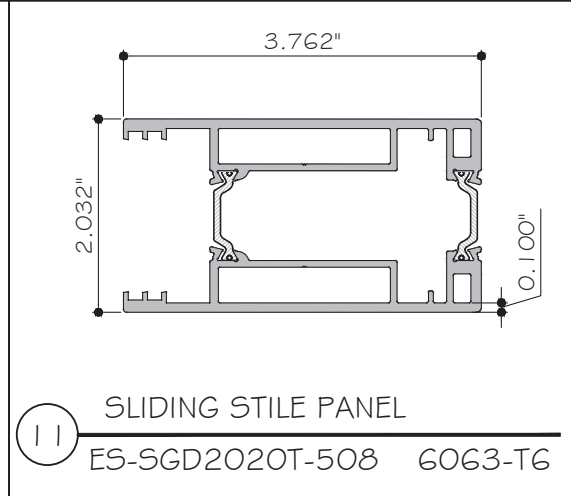
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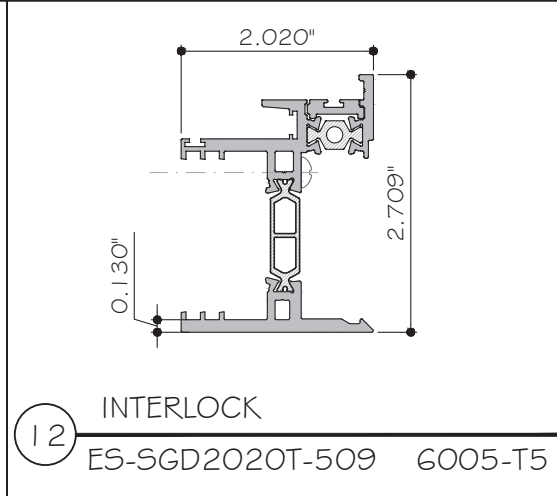
9 BOTTOM RAIL
ES-SGD2020T-506 6063-T6



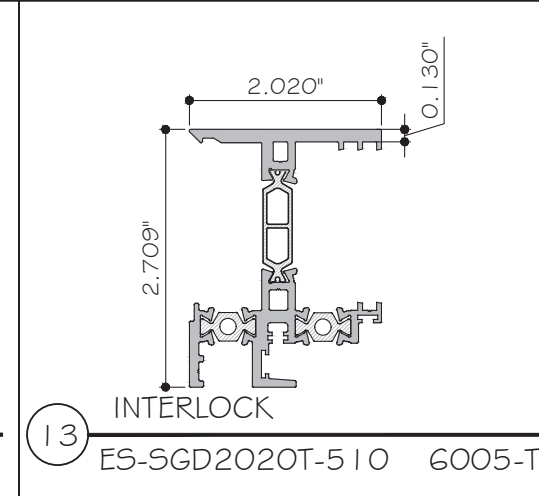
10 FIXED STILE PANEL
ES-SGD2020T-507 6063-T6



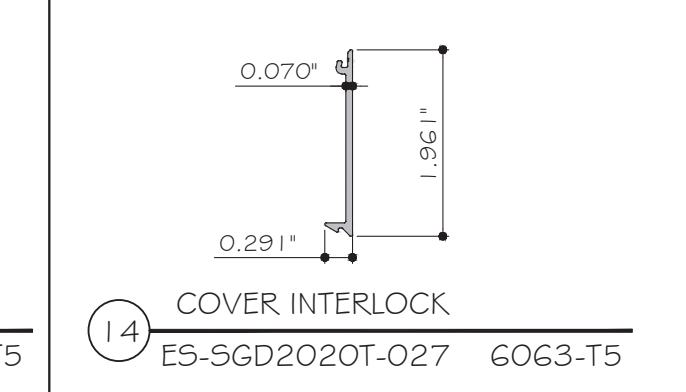
11 SLIDING STILE PANEL
ES-SGD2020T-508 6063-T6



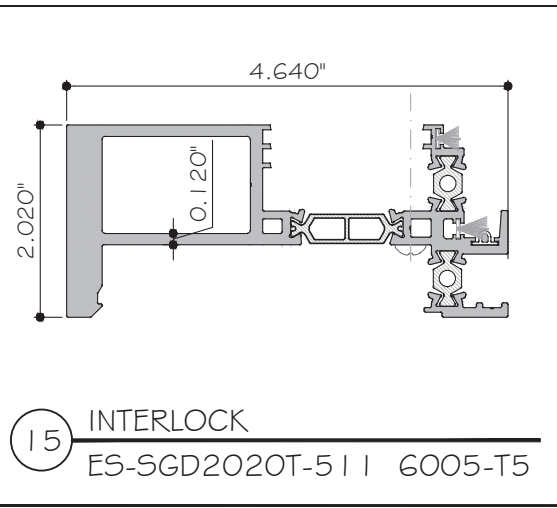
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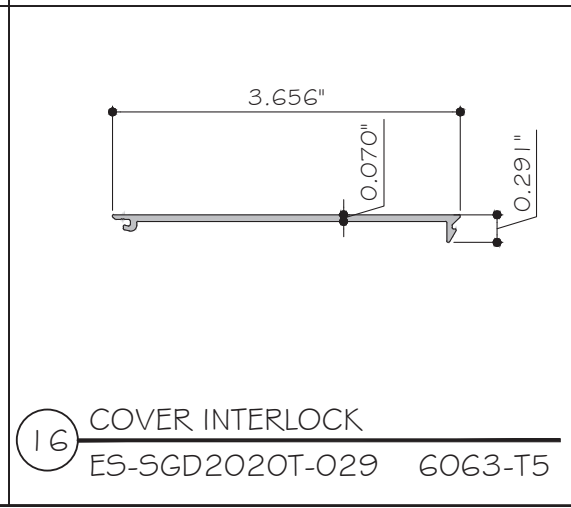
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ES-SGD2020T-510 6005-T5



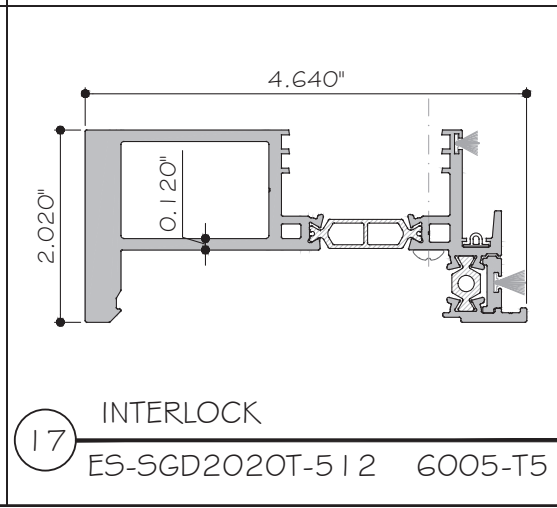
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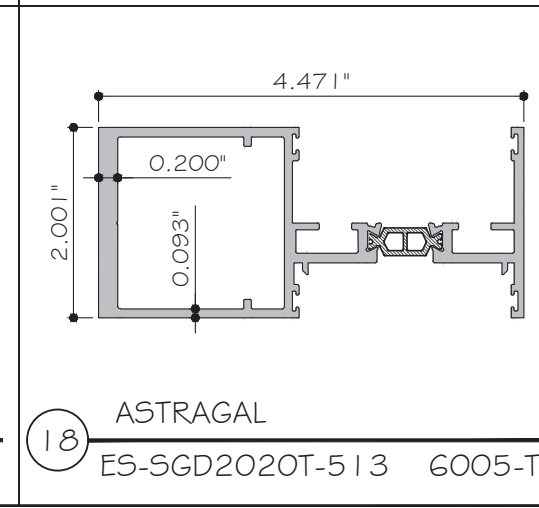
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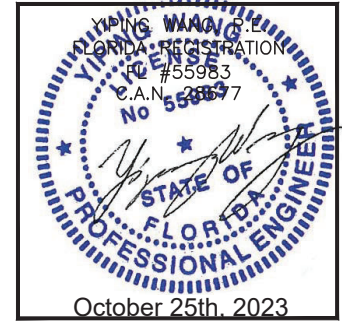
16 COVER INTERLOCK
ES-SGD2020T-029 6063-T5



17 INTERLOCK
ES-SGD2020T-512 6005-T5



18 ASTRAGAL
ES-SGD2020T-513 6005-T5



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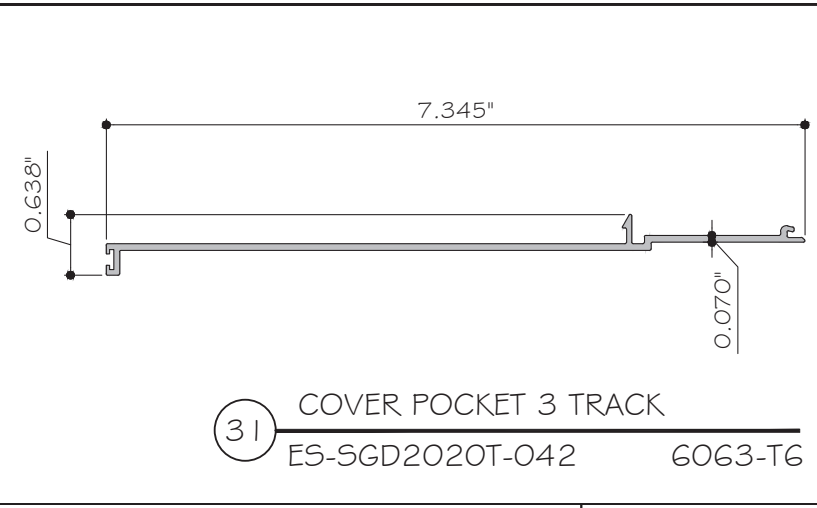
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Drawn Date: 09.14.2023 Scale: _____

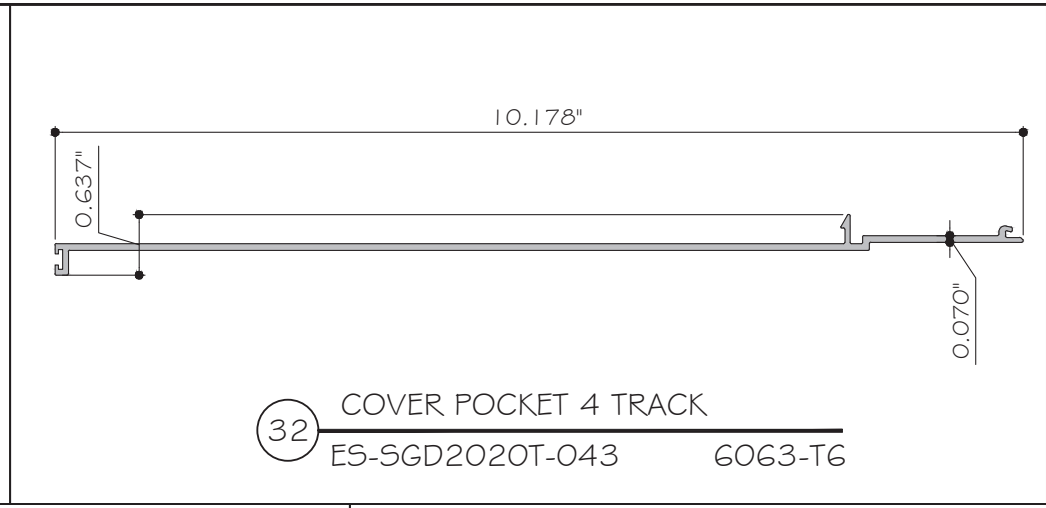
DRAWING NO. **AD21-56**

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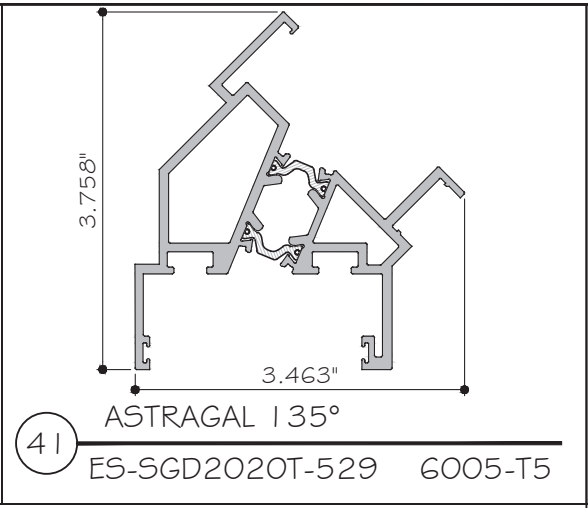
Sheet No. **30 OF 35**



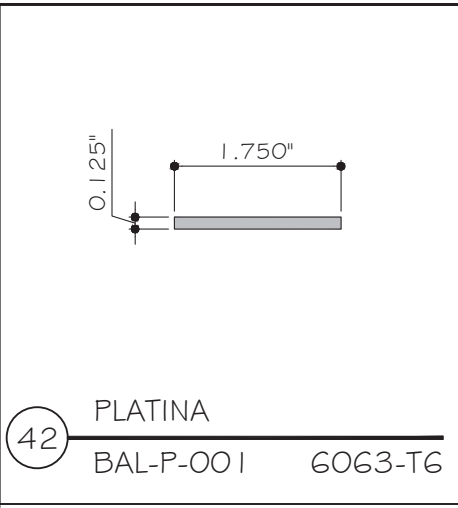
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ES-SGD2020T-042 6063-T6



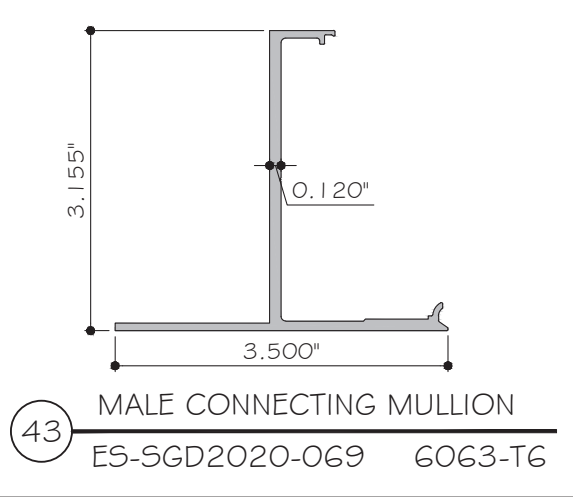
32 COVER POCKET 4 TRACK
ES-SGD2020T-043 6063-T6



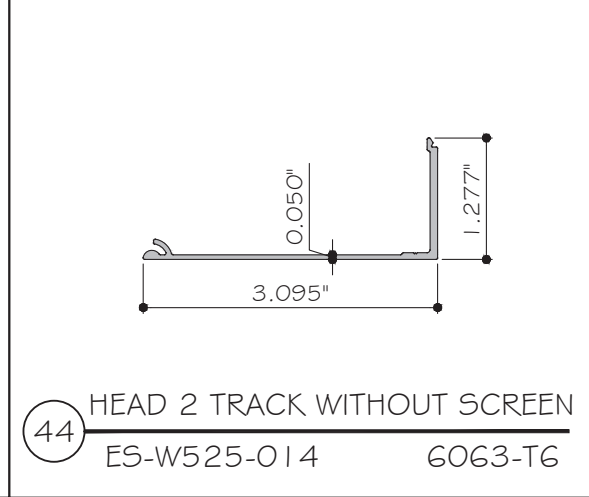
41 ASTRAGAL 135°
ES-SGD2020T-529 6005-T5



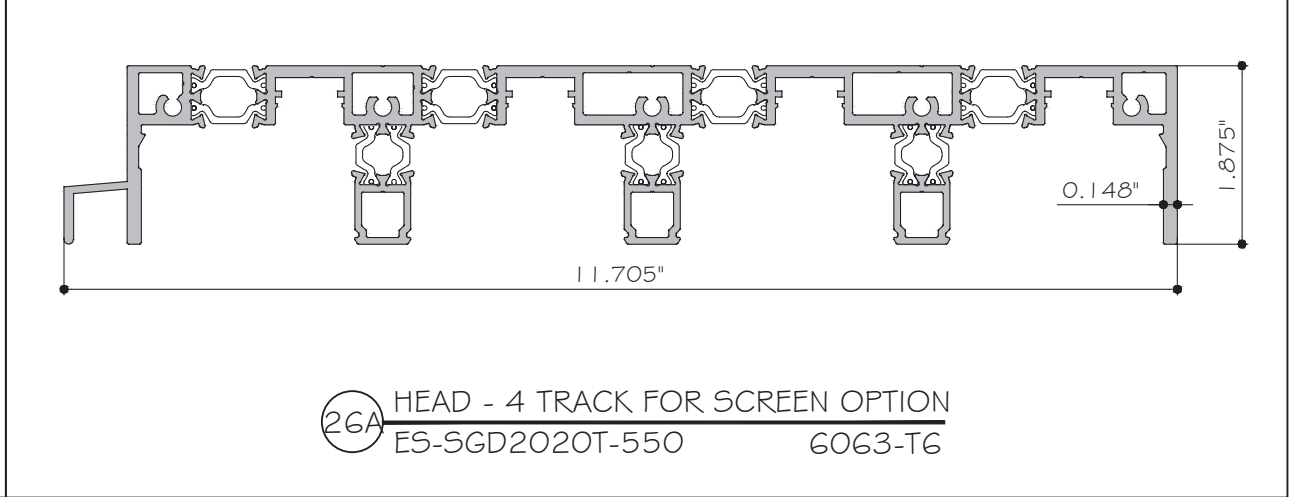
42 PLATINA
BAL-P-001 6063-T6



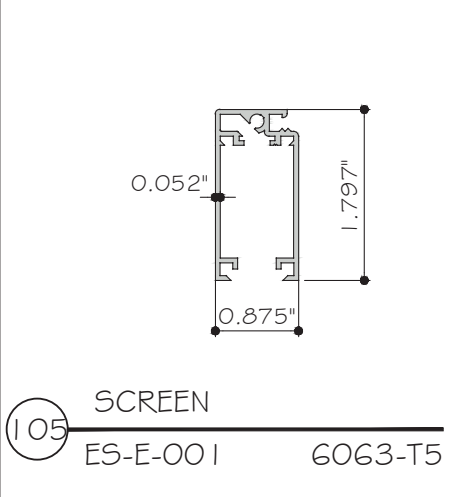
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ES-SGD2020-069 6063-T6



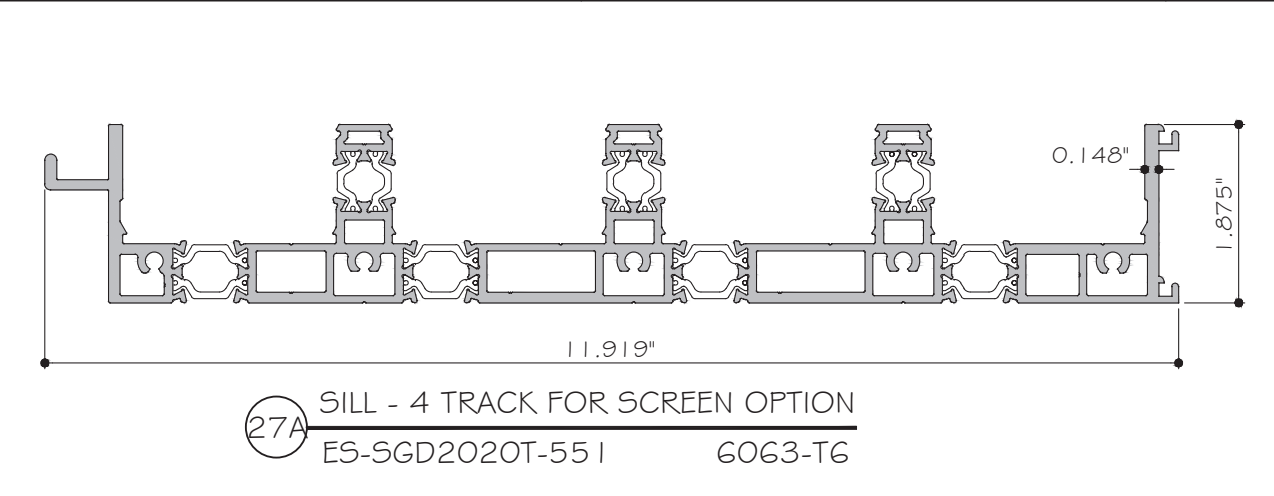
44 HEAD 2 TRACK WITHOUT SCREEN
ES-W525-014 6063-T6



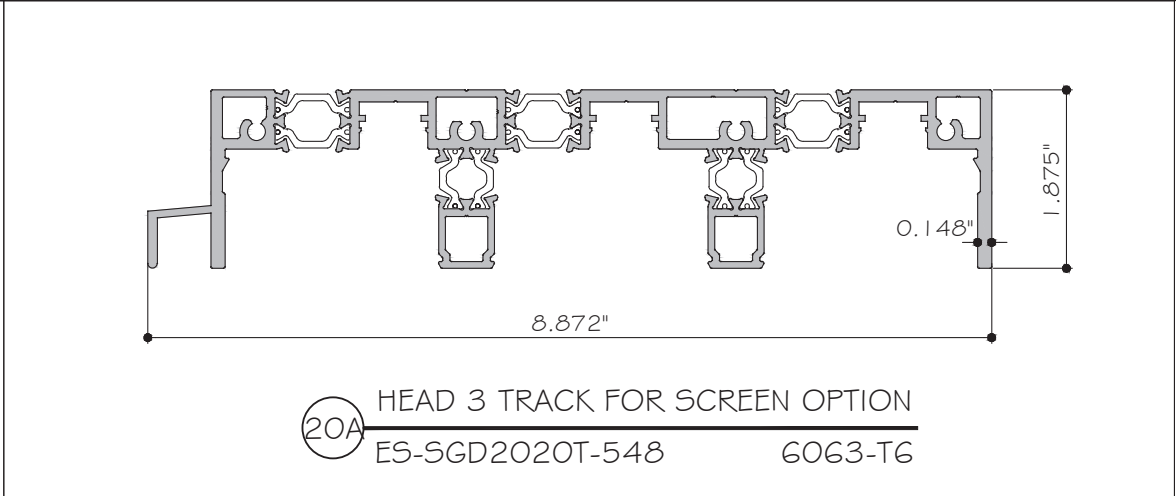
26A HEAD - 4 TRACK FOR SCREEN OPTION
ES-SGD2020T-550 6063-T6



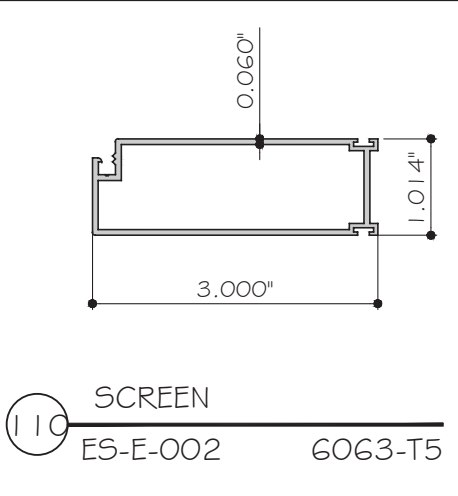
105 SCREEN
ES-E-001 6063-T5



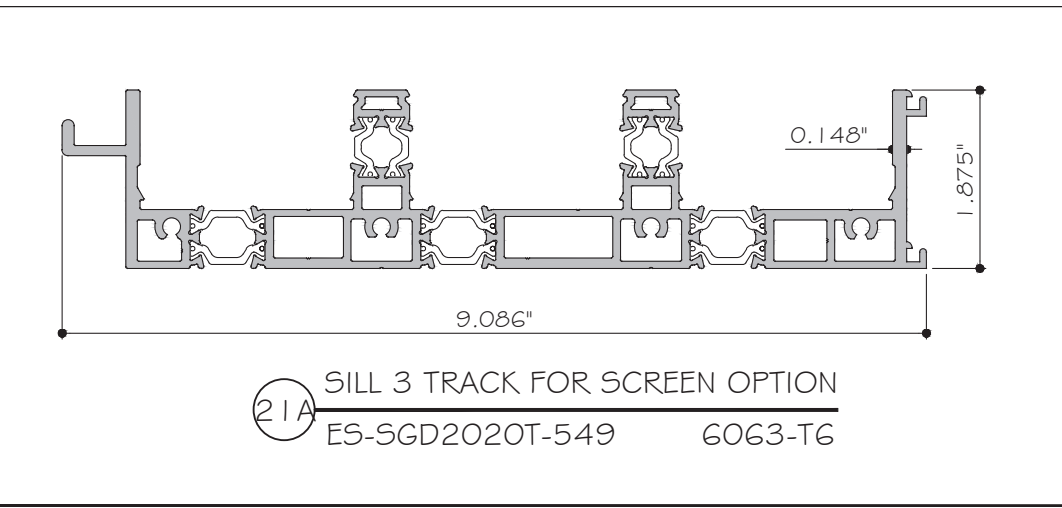
27A SILL - 4 TRACK FOR SCREEN OPTION
ES-SGD2020T-551 6063-T6



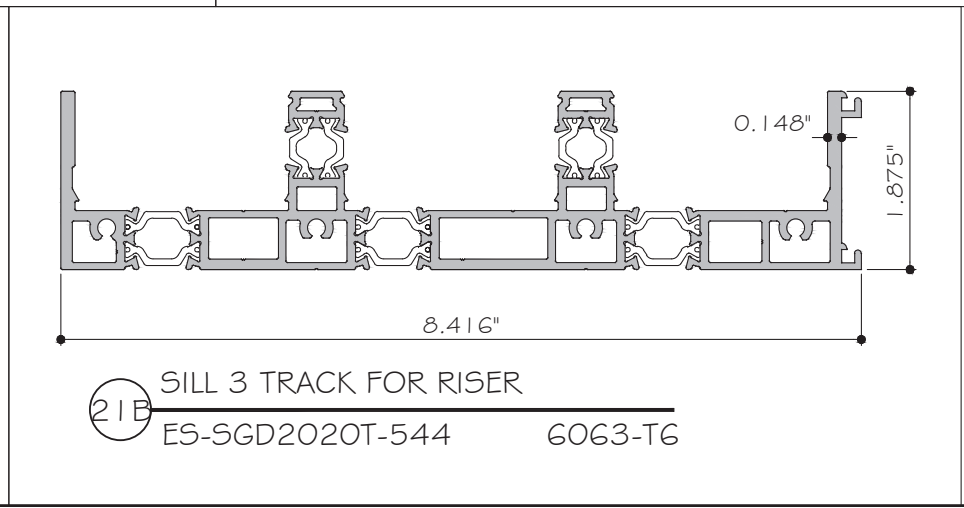
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ES-SGD2020T-548 6063-T6



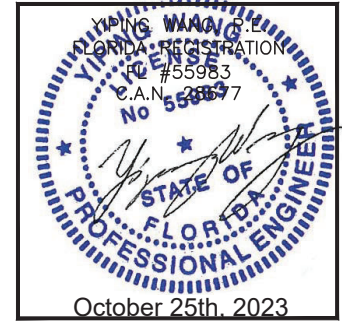
110 SCREEN
ES-E-002 6063-T5



21A SILL 3 TRACK FOR SCREEN OPTION
ES-SGD2020T-549 6063-T6



21B SILL 3 TRACK FOR RISER
ES-SGD2020T-544 6063-T6



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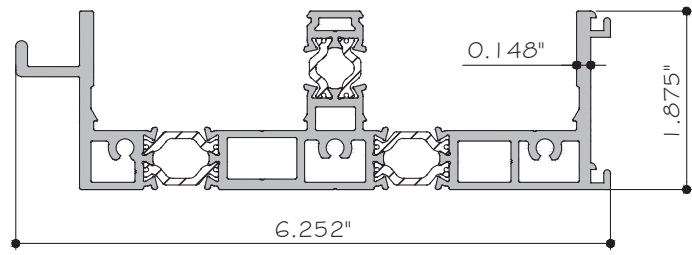
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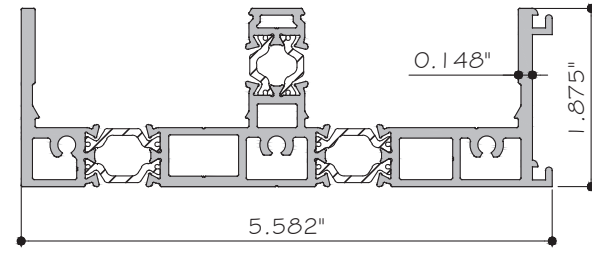
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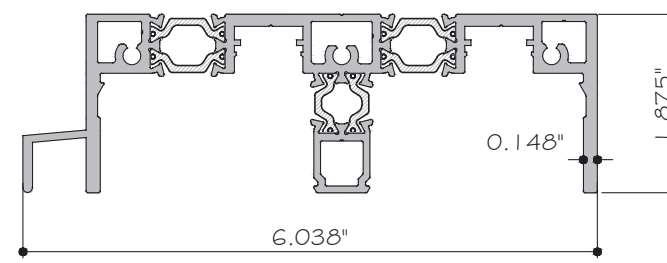
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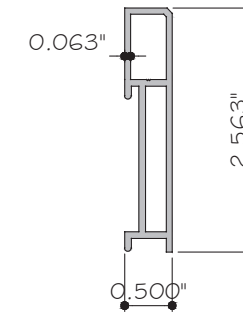
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ES-SGD2020T-547 6063-T6



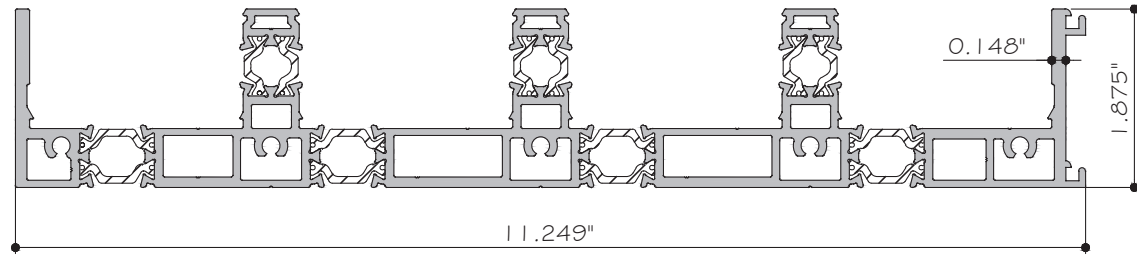
2B SILL (2 TRACK) FOR RISER
ES-SGD2020T-543 6063-T6



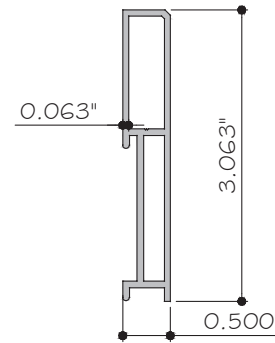
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ES-SGD2020T-546 6063-T6



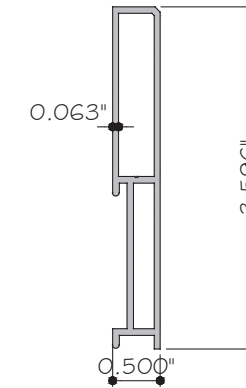
106 STANDARD SILL RISER
ES-SGD2020-008 6063-T6



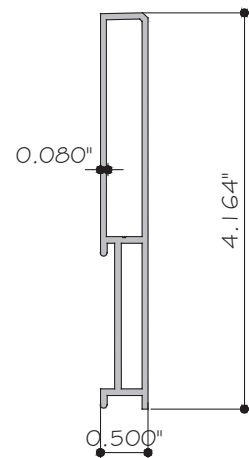
27B SILL - 4 TRACK FOR RISER
ES-SGD2020T-545 6063-T6



107 STANDARD SILL RISER
ES-SGD2020-007 6063-T6



108 STANDARD SILL RISER
ES-SGD2020-041 6063-T6



109 STANDARD SILL RISER
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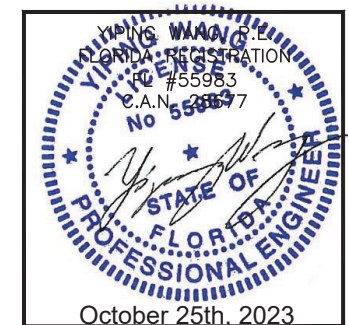
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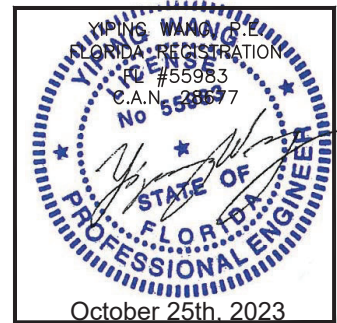
BILL OF MATERIALS

ITEM	PART	DESCRIPTION	MATERIAL
99	REINFORCEMENT	STEEL PLATE 1/2" x 3" x LENGTH	GALVANIZED STAINLESS STEEL
100	P501-5014	M4x50 CSK SS PHILIPS @EXTERIOR PULL HANDLE	STAINLESS STEEL
101	REINFORCEMENT	STEEL PLATE 1/2" x 1 1/2" x LENGTH	GALVANIZED STAINLESS STEEL
102	ASTRAGAL REINFORCEMENT	STEEL REINFORCEMENT 1 1/2" X 1 1/2" X 0.1875	GALVANIZED STAINLESS STEEL
103	ASTRAGAL CORNER REINFORCEMENT (90°)	STEEL PLATE 1/4" x 1 1/2" x LENGTH	GALVANIZED STAINLESS STEEL
104	ASTRAGAL CORNER REINFORCEMENT (90°)	STEEL PLATE 1/4" x 1 1/4" x LENGTH	GALVANIZED STAINLESS STEEL
105	E5-S-001	SCREEN	6063-T5
106	E5-SGD2020-008	STANDARD SILL RISER	6063-T6
107	E5-SGD2020-007	STANDARD SILL RISER	6063-T6
108	E5-SGD2020-041	STANDARD SILL RISER	6063-T6
109	E5-SGD2020-040	STANDARD SILL RISER	6063-T6
110	E5-S-002	SCREEN	6063-T5
111	E5-004	BALANCE GUIDE	NYLON
112	Q26647DK	ULTRAFAB	POLYPROPYLENE

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