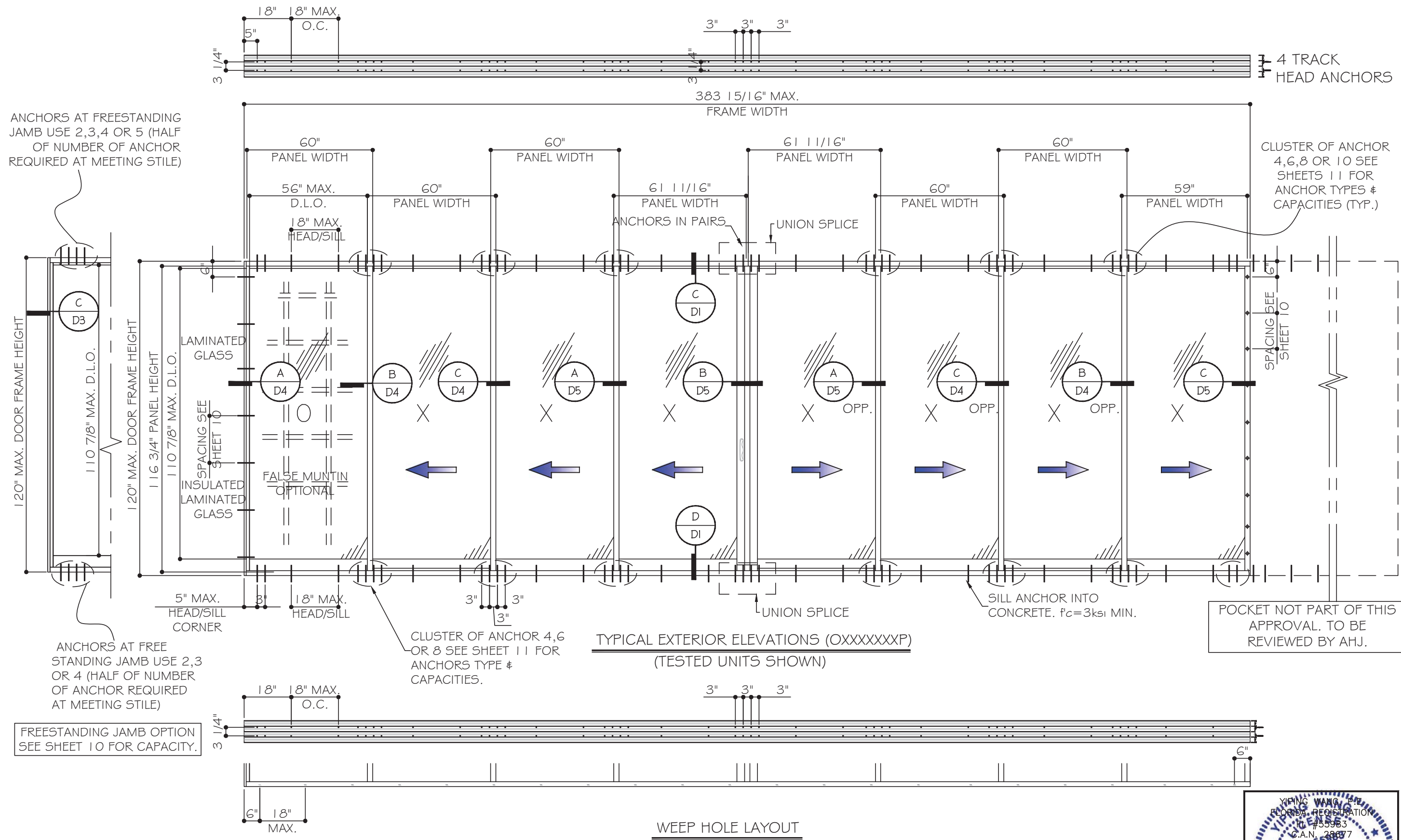


LARGE MISSILE IMPACT

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

[illegible]



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
PANEL HEIGHT = FRAME HEIGHT - 2.625"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"



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

TECNOGLASS, LLC
3550 NW 49TH STREET
Miami, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

Rev.	Date	Drawn By	Description
R1	02.06.2024	James	NEW APPLICATION

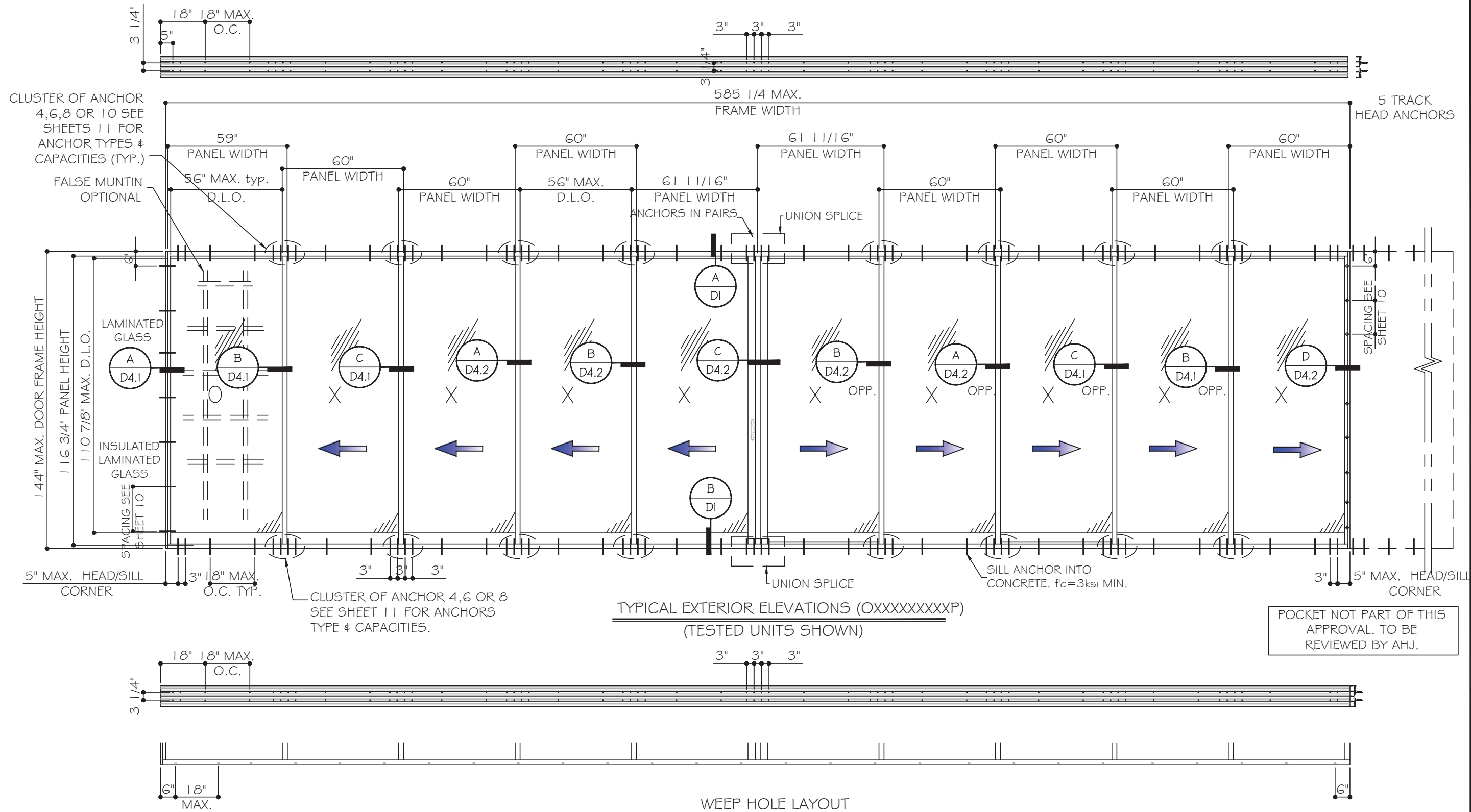
Drawn Date
02.06.2024

Scale
AS SHOWN

DRAWING NO.
AD23-80

E1

Sheet No.
02 OF 22



NOMINAL PANEL WIDTH = FRAME WIDTH / NO. OF PANEL
PANEL HEIGHT = FRAME HEIGHT - 2.625"
D.L.O. HEIGHT = DOOR FRAME HEIGHT - 9.125"
D.L.O. WIDTH = NOMINAL PANEL WIDTH - 4"



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

TECNOGLASS, LLC
3550 NW 49TH STREET
Miami, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

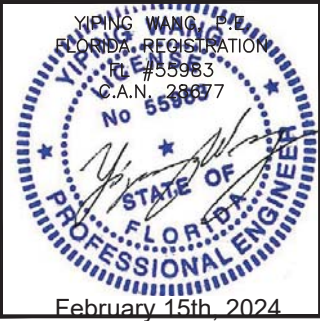
ES-SGD2020TG SLIDING GLASS DOOR (4&5 TRACK) LARGE MISSILE IMPACT	
Drawn Date 02.06.2024	Scale AS SHOWN
DRAWING NO. AD23-80	
E2	
Sheet No. 03 OF 22	



CORNER STILE.

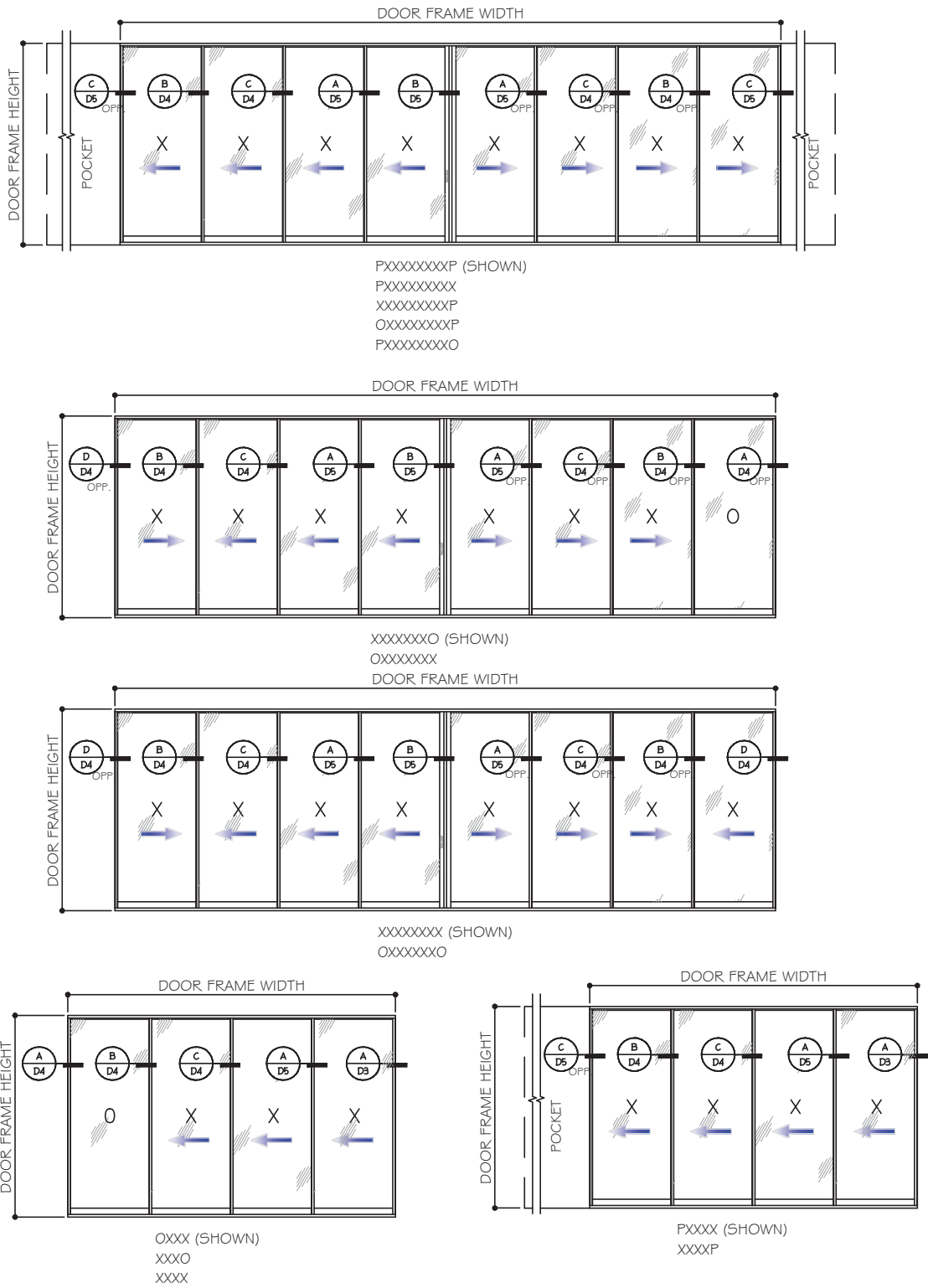


SLIDING DOOR WITH CORNER STILES			
PANEL W. (E.Q. AT BOTH SIDE)	F.H.	ALLOW. DESIGN LOAD	
(IN)	(IN)	(+) PSF	(-) PSF
48	120	90	102
50	114	90	102
53.25	108	90	102
56	102	90	102



APPROVED CONFIGURATION DOORS

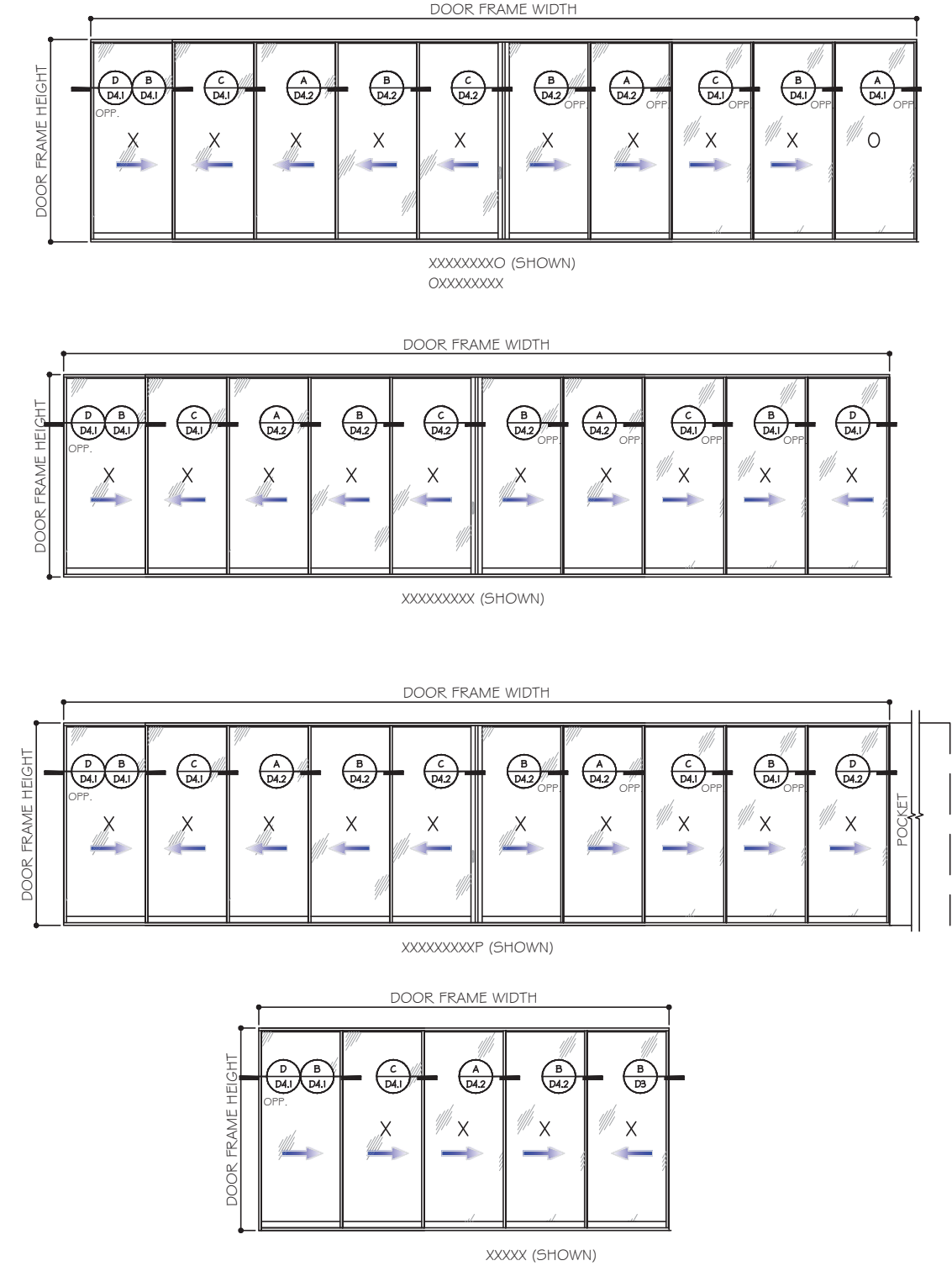
4 TRACK SLIDING GLASS DOOR



NOTES:

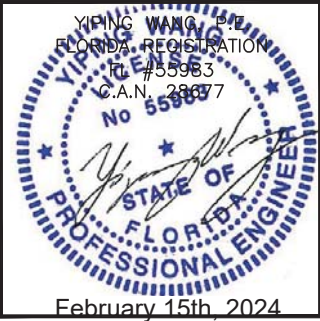
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
2. SEE CHART ON SHEET O6 TO O8 FOR GLASS CAPACITIES AND GLASS OPTIONS.
3. FOR APPLICABLE DESIGN PRESSURES SGD REINFORCING LEVEL 1, 2 OR 3, SEE SHEET O6 TO O8.
4. FOR ANCHOR DETAILS AND CAPACITIES AT HEAD/SILL SEE SHEET 11.
5. FREE STANDING JAMB SEE OPTIONS AND CAPACITIES ON SHEET O9. CAPACITY FOR ANCHORED JAMB SEE SHEET 10.
6. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

5 TRACK SLIDING GLASS DOOR



NOTES:

1. REFER TO ELEVATION FOR MAX. DOOR UNIT HEIGHT & WIDTH
2. LOWER DESIGN PRESSURE USING OTHER CHART CONTROLS.
3. POCKETS ARE NOT PART OF THIS APPROVAL AND ARE TO BE REVIEWED BY AHJ.



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

TECNOGLASS, LLC

3550 NW 49TH STREET

Miami, FL 33142

PH: (305)-342-0890 FAX (786) 513-3965

ES-SGD2020TG SLIDING GLASS DOOR (4&5 TRACK) LARGE MISSILE IMPACT

Drawn Date

02.06.2024

Scale

AS SHOWN

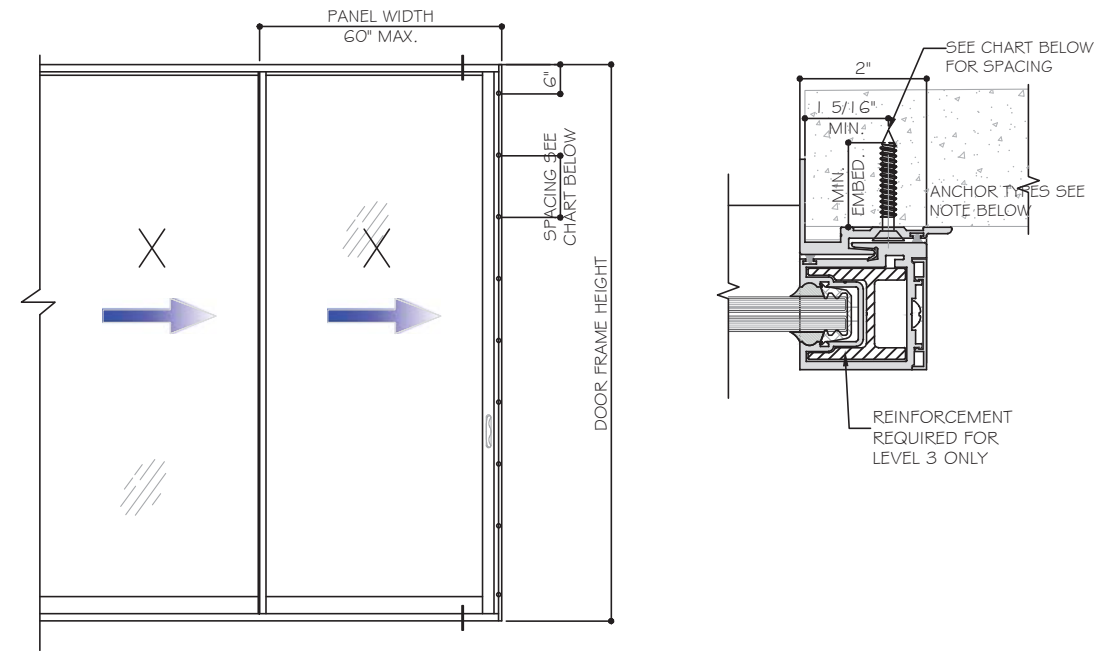
DRAWING NO.

AD23-80

E4

Sheet No.

05 OF 22



POCKET JAMB ANCHOR CHART			
ANCHOR TYPE	EMBEDMENT	SUBSTRATE	ANCHOR SPACING
			W≤60"
B2 (1/4" ULTRACON)	1 3/4"	CONCRETE	12"
C2(#14 DRILFLEX)	1/4"	ALUM.6063-T6	16"
C2(#14 DRILFLEX)	1/8"	STL	16"
C3(#14 SMS)	1 1/2"	WOOD SG=0.55	16"

JAMB ANCHOR TYPES:

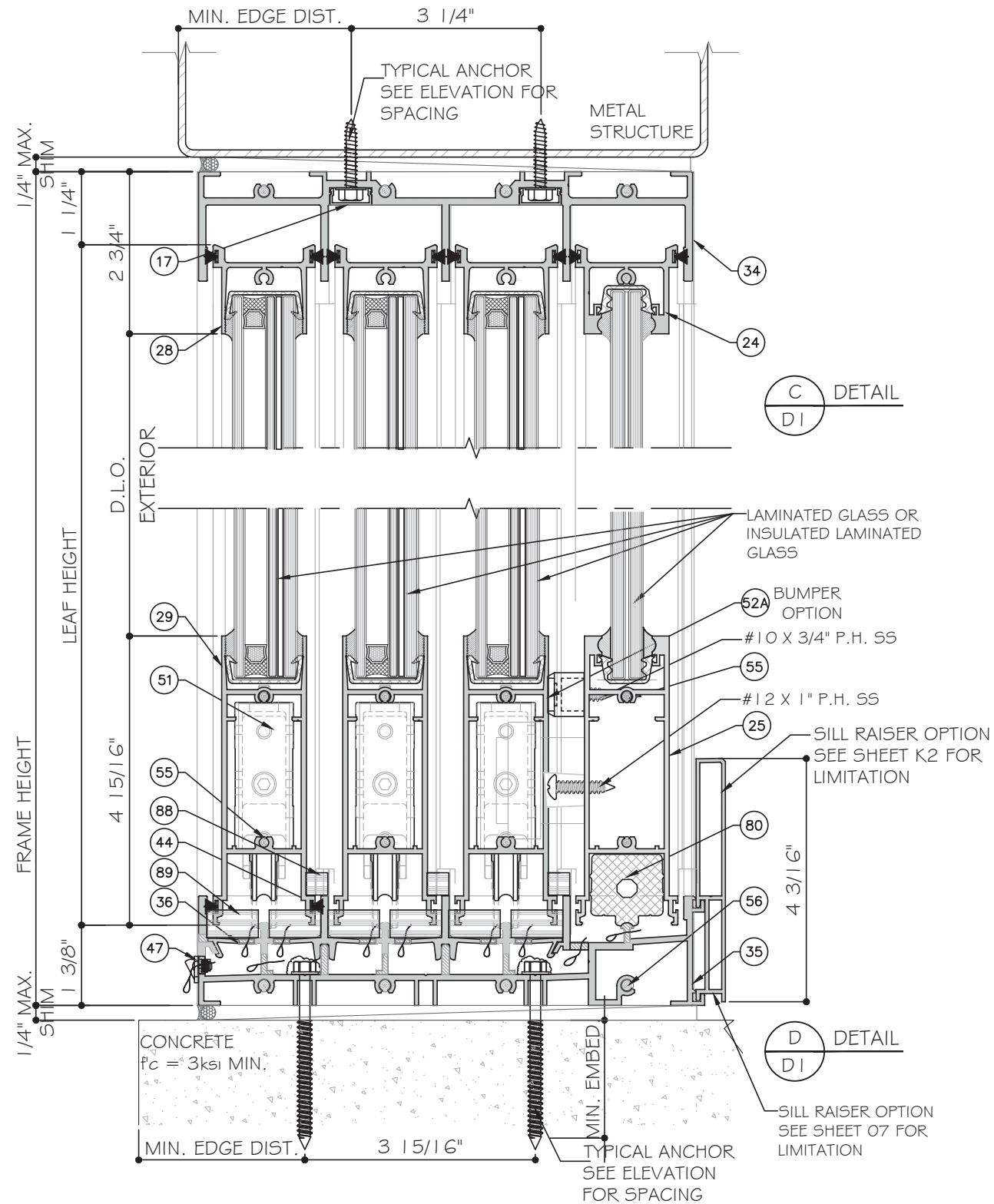
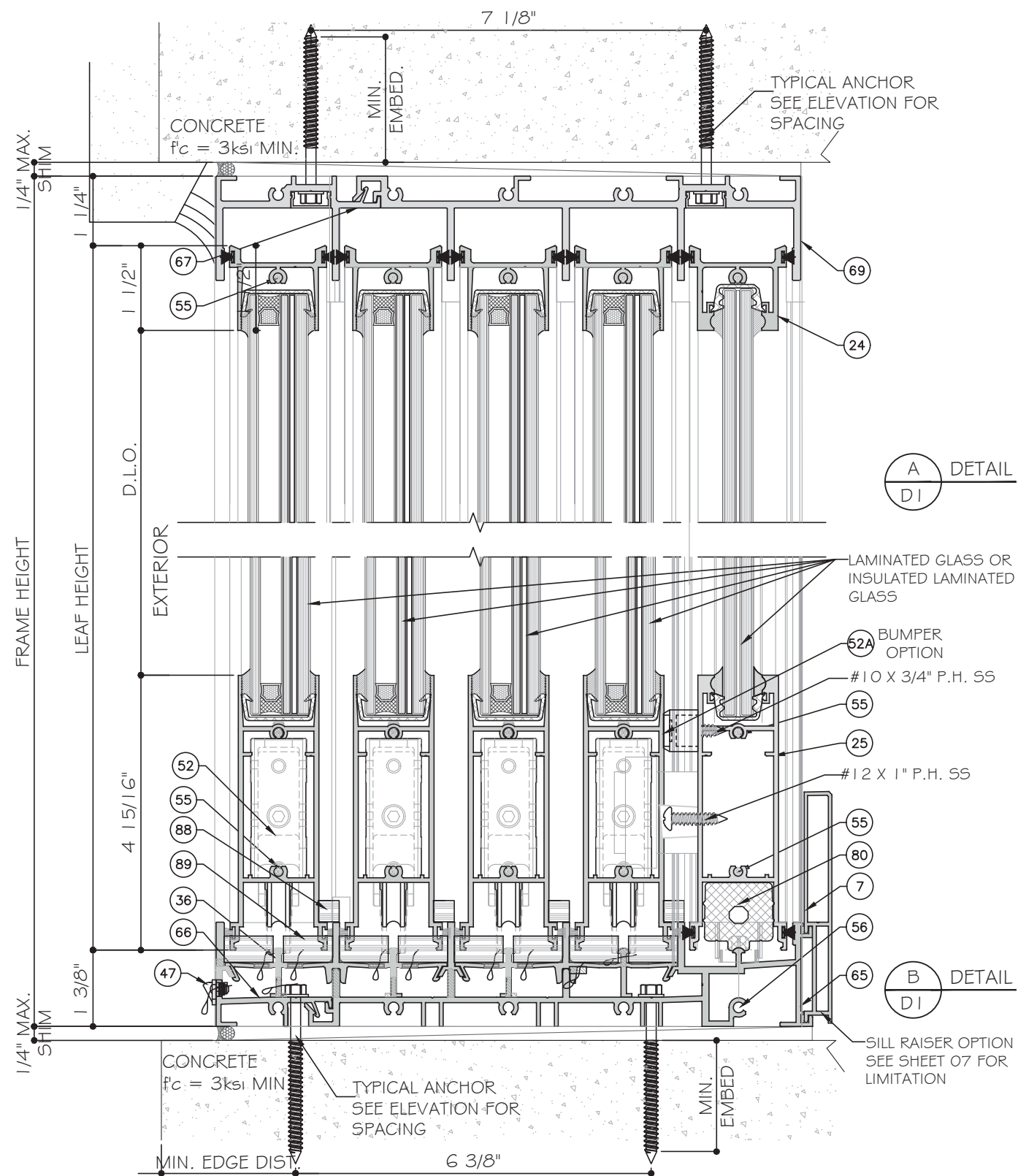
TYPE "B2": 1/4" DIA. ULTRACON+ BY DEWALT ($F_u = 164$ KSI, $F_y = 148$ KSI)
 1 3/4" MIN. EMBED INTO $f'_c = 3$ KSI MIN. CONCRETE
 1 5/16" MIN. EDGE DISTANCE

TYPE "C2": 1/4" DIA. ELCO DRIL FLEX SCREW (F_U=120 KSI, F_Y=92 KSI)
 INTO METAL STRUCTURE
 ALUMINUM: 1/4" THK. MIN. (6063-T6 MIN.)
 STEEL: 1/8" THK. MIN. (F_Y=36KSI, MIN.)

TYPE "C3": 1/4" DIA. SMS ($F_u=74$ KSI, $F_y=57$ KSI)
1 1/2" MIN. EMBED INTO WOOD STRUCTURE ($SG=0.55$ MIN.)
1" MIN. EDGE DISTANCE

NOTE:
1X OR 2X WOOD BUCKS/ METAL STRUCTURES BY OTHERS MUST BE PROPERLY SECURED TO SUPPORT LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURES.





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

TECNOGLASS, LLC
3550 NW 49TH STREET
Miami, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

Rev.	Date	Drawn By	Description
R1	02.06.2024	James	NEW APPLICATION

Drawn Date: 02.06.2024

Scale: AS SHOWN

DRAWING NO. AD23-80

Sheet No. 12 OF 22



YIPING WANG, P.E.
FLORIDA REGISTRATION
55983
C.A.N. 28977

No. 55983

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

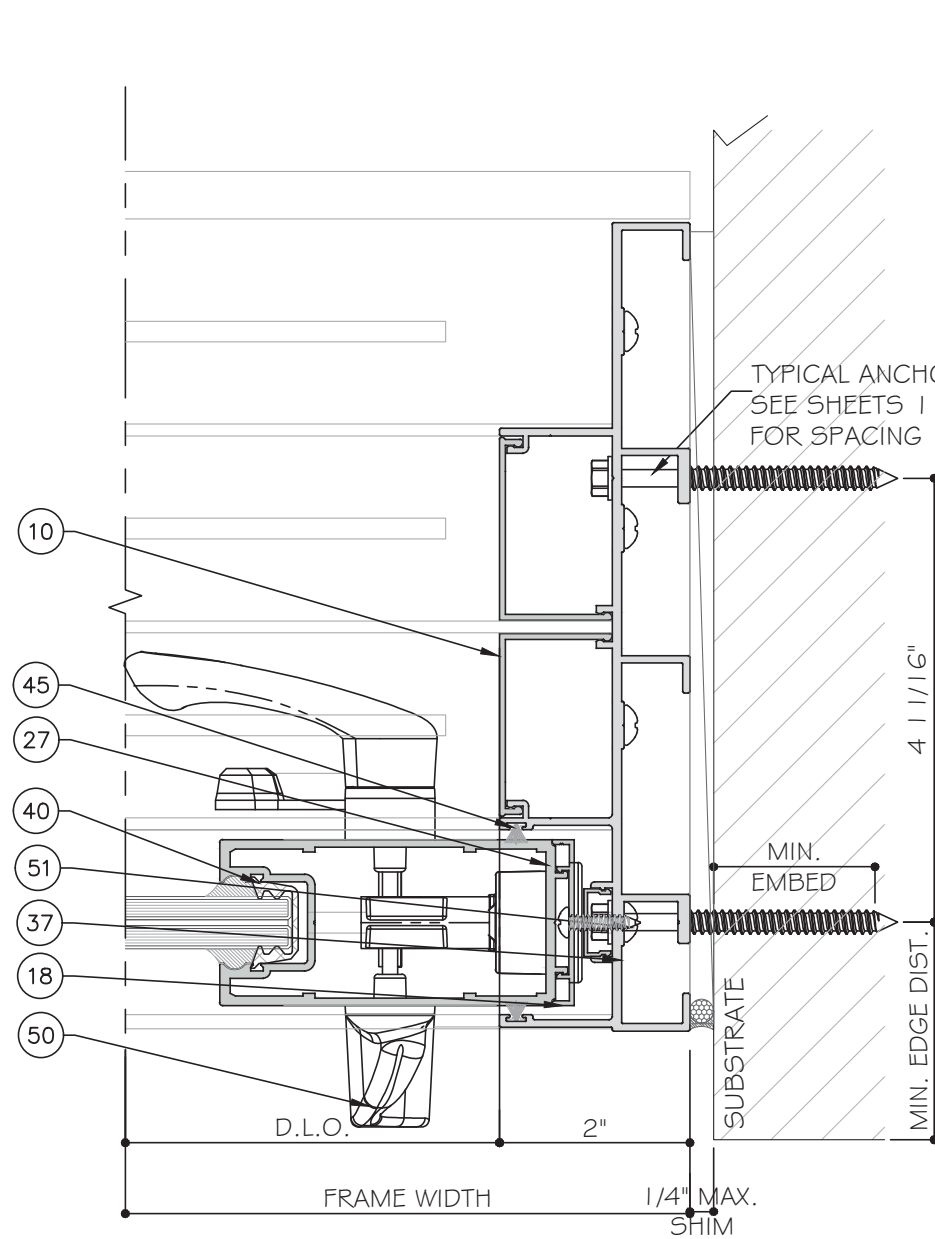
February 15th, 2024

[illegible]

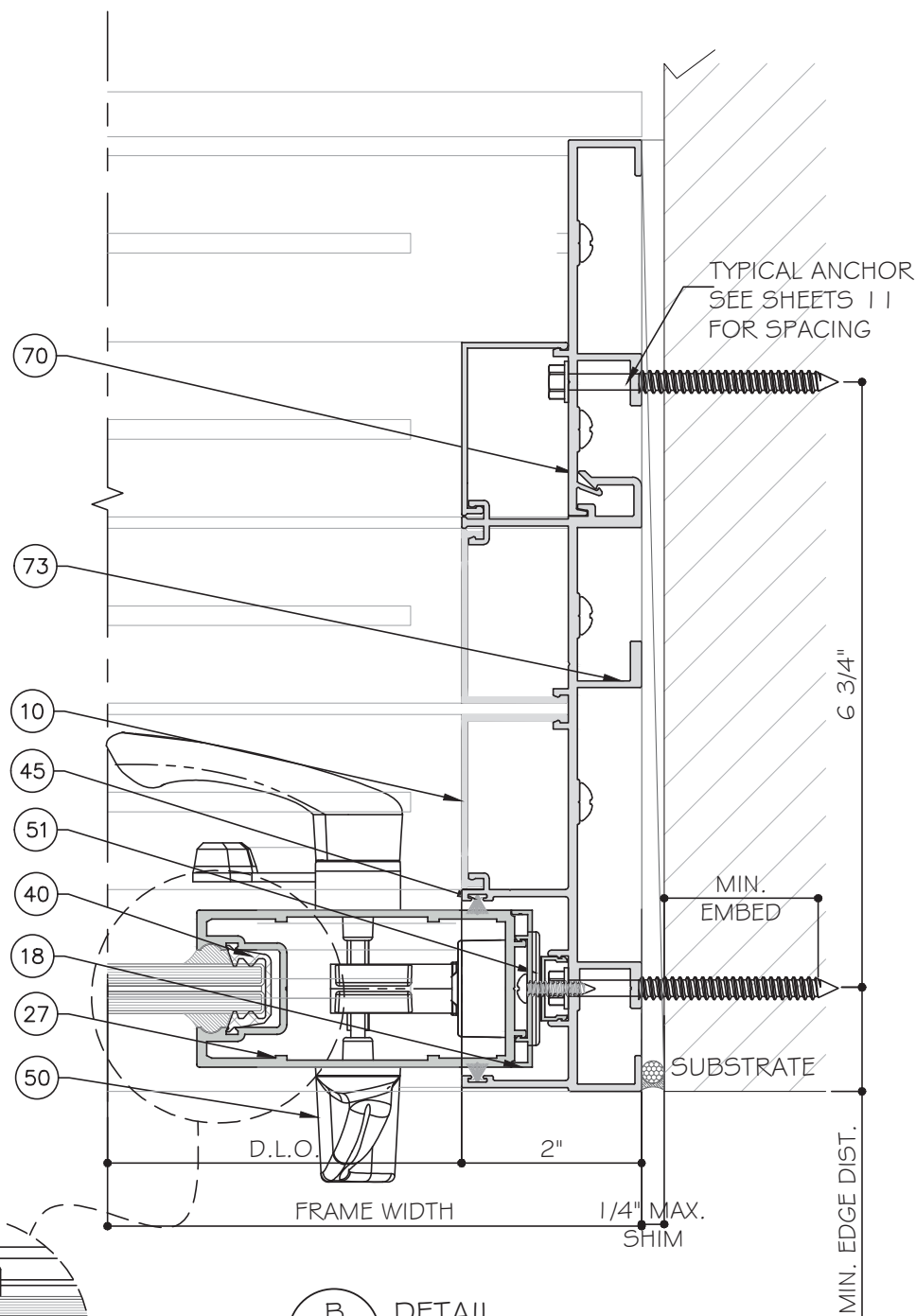
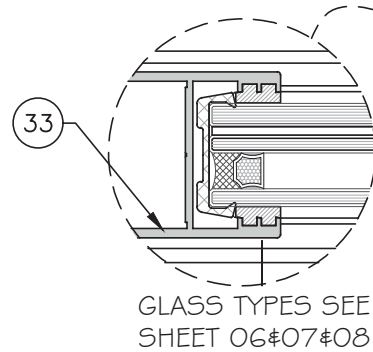
ES-SGD2020TG SLIDING GLASS DOOR (4&5 TRACK) LARGE MISSILE IMPACT

TECNOGLASS, LLC
 3550 NW 49TH STREET
 Miami, FL 33142
 PH: (305)-342-0890 FAX (786) 513-3965

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

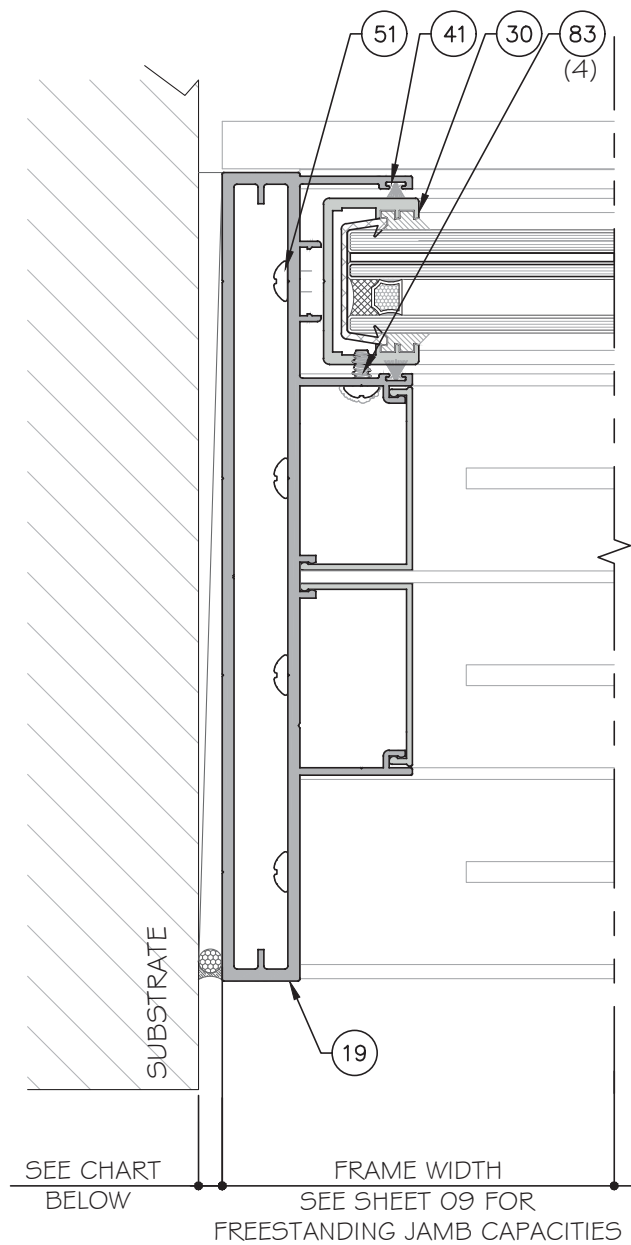


A
D3
DETAIL

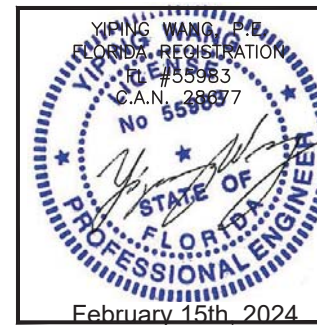


B
D3
DETAIL

FH	MIN. GAP	MAX.
96"	9/16"	3/4"
108"	5/8"	3/4"
120"	1 1/16"	3/4"
132"	3/4"	7/8"
144"	13/16"	7/8"



C
D3
DETAIL



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

TECNOGLASS, LLC
3550 NW 49TH STREET
Miami, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

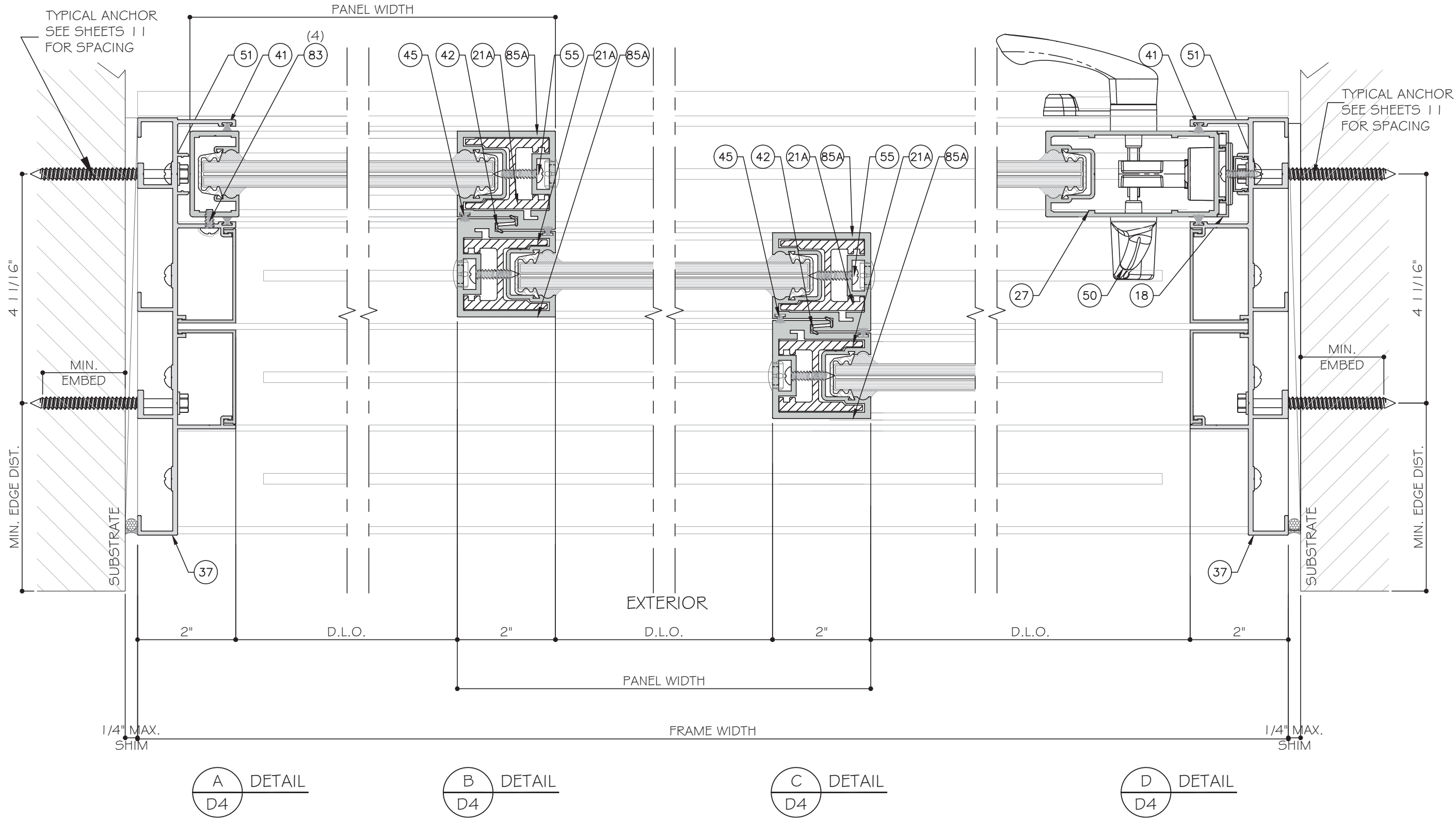
ES-SGD2020TG SLIDING GLASS DOOR (4&5 TRACK) LARGE MISSILE IMPACT			
Rev	Date	Drawn By	Description
R1	02.06.2024	James	NEW APPLICATION

Drawn Date
02.06.2024

DRAWING NO.
AD23-80

Scale
AS SHOWN

Sheet No.
14 OF 22



FOUR (4) TRACK DOOR DETAILS

STANDARD INTERLOCK W/ REINF. (LEVEL 1) SHOWN. SEE SHEET 07#08 FOR LEVEL 2 AND 3 INTERLOCKS.



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

M

C

Y

ES-SGD2020TG SLIDING GLASS DOOR (4&5 TRACK) LARGE MISSILE IMPACT

TECNOGLASS, LLC
3550 NW 49TH STREET
Miami, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

Rev	No.	Date	Drawn By	Description
R1	02.06.2024	James		NEW APPLICATION

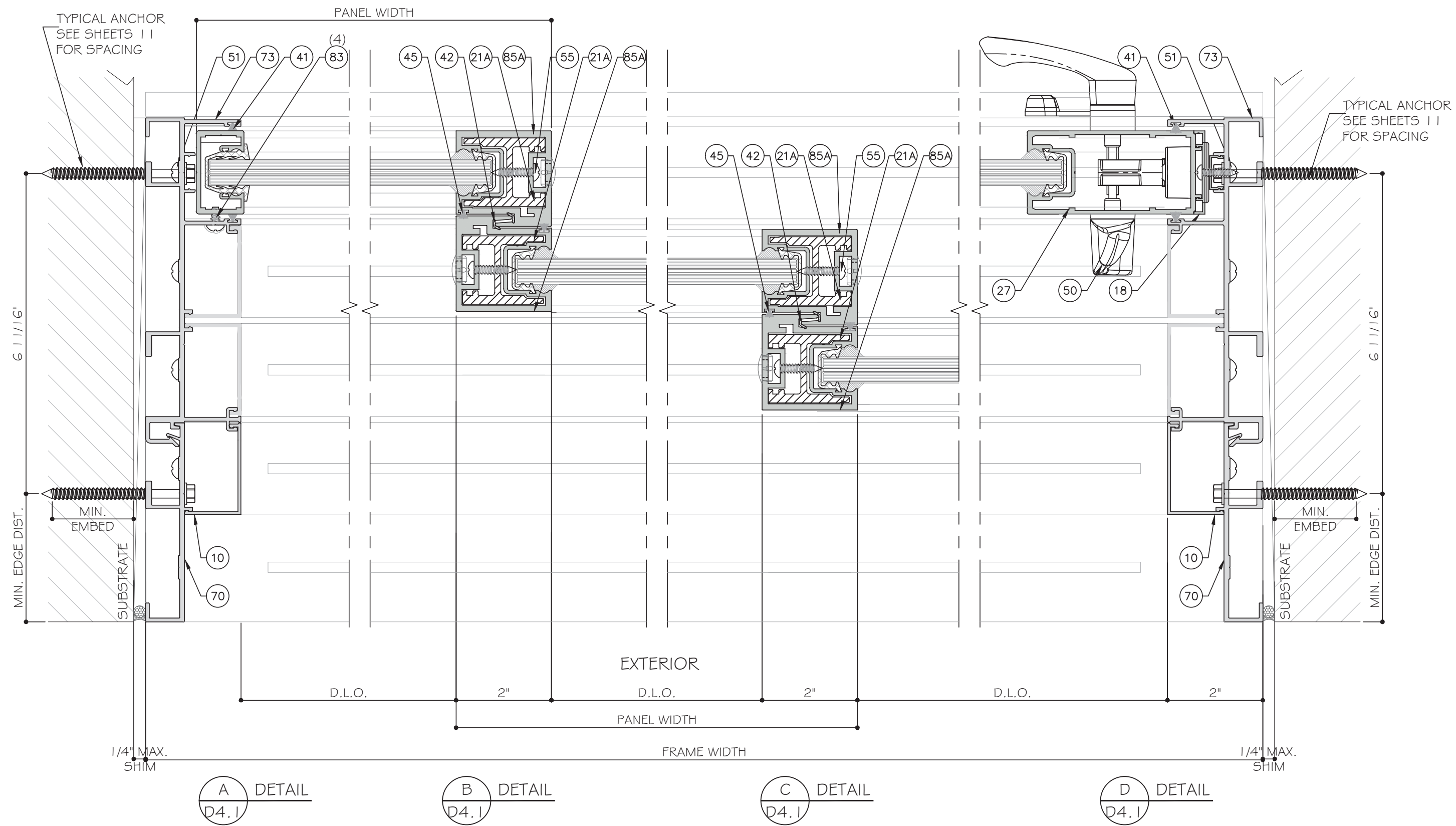
Drawn Date
02.06.2024

Scale
AS SHOWN

DRAWING NO.
AD23-80

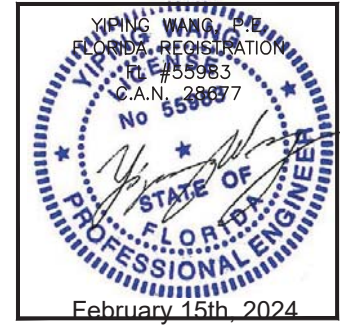
D4

Sheet No.
15 OF 22



FIVE (5) TRACK DOOR DETAILS

STANDARD INTERLOCK W/ REINF. (LEVEL 1) SHOWN. SEE SHEET 07#08 FOR LEVEL 2 AND 3 INTERLOCKS.



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

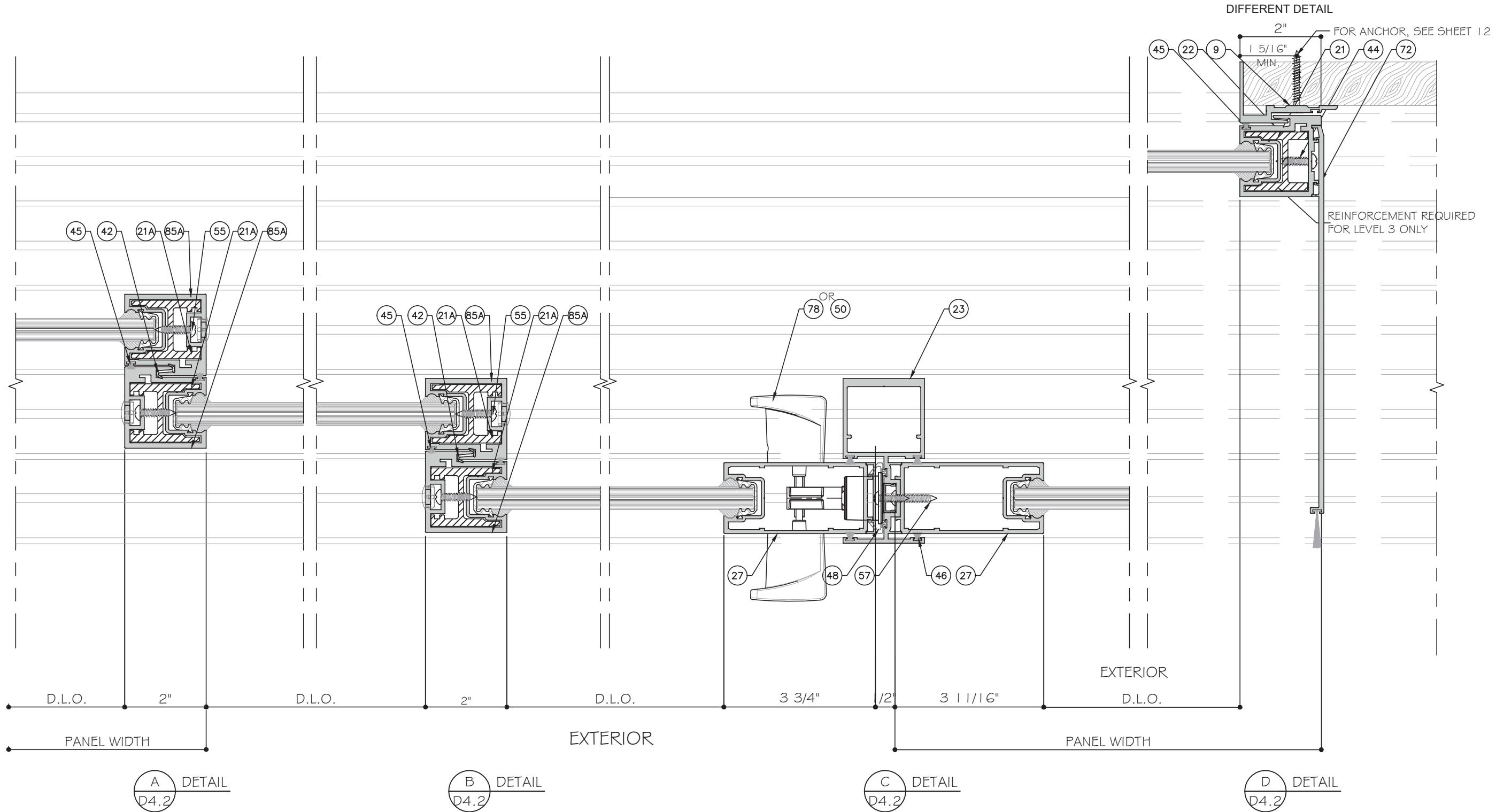
TECNOGLASS, LLC
3550 NW 49TH STREET
Miami, FL 33142
PH: (305)-342-0890 FAX (786) 513-3965

Rev.	Date	Drawn By	Description
R1	02.06.2024	James	NEW APPLICATION

Drawn Date	Scale
02.06.2024	AS SHOWN

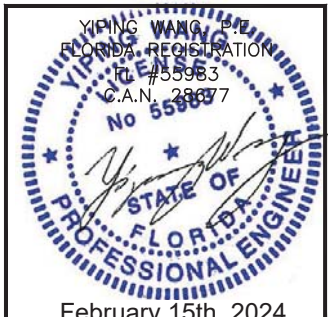
DRAWING NO.
AD23-80

Sheet No.
16 OF 22



STANDARD INTERLOCK W/ REINF. (LEVEL 1) SHOWN. SEE SHEET 07#08 FOR LEVEL 2 AND 3 INTERLOCKS.

FIVE (5) TRACK DOOR DETAILS



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

MCY

ES-SGD2020TG SLIDING GLASS DOOR (4&5 TRACK) LARGE MISSILE IMPACT

TECNOGLASS, LLC

3550 NW 49TH STREET

Miami, FL 33142

PH: (305)-342-0890 FAX (786) 513-3965

Rev	Date	Drawn By	Description
R1	02.06.2024	James	NEW APPLICATION

Drawn Date

02.06.2024

Scale

AS SHOWN

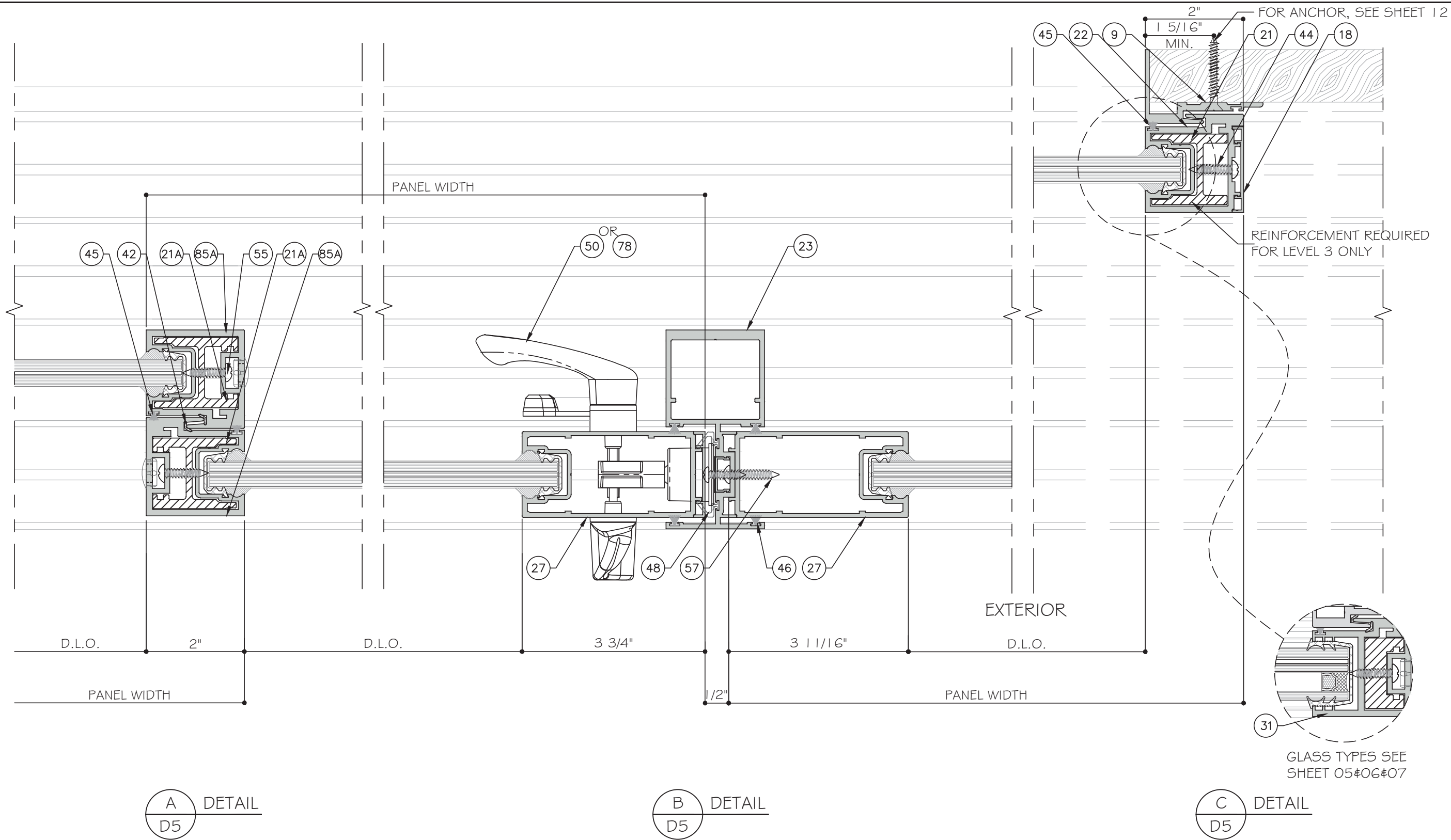
DRAWING NO.

AD23-80

Sheet No.

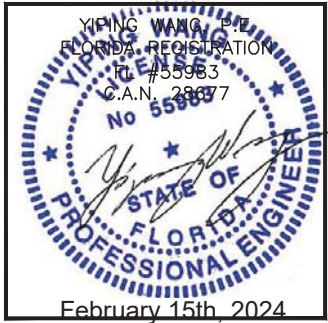
D4.2

17 OF 22



STANDARD INTERLOCK W/ REINF. (LEVEL 1) SHOWN. SEE SHEET 07#08 FOR LEVEL 2 AND 3 INTERLOCKS.

FOUR (4) TRACK DOOR DETAILS



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcy@mcyengineering.com

M

C

Y

ES-SGD2020TG SLIDING GLASS DOOR (4&5 TRACK) LARGE MISSILE IMPACT

TECNOGLASS, LLC

3550 NW 49TH STREET

Miami, FL 33142

PH: (305)-342-0890 FAX (786) 513-3965

Rev	Date	By	Description
R1	02.06.2024	James	NEW APPLICATION

Drawn Date

02.06.2024

Scale

AS SHOWN

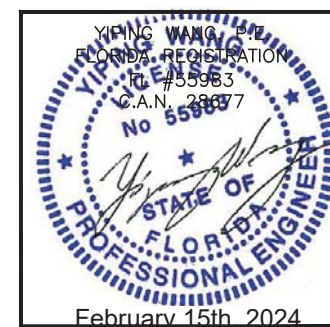
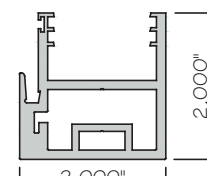
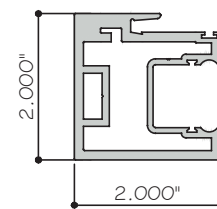
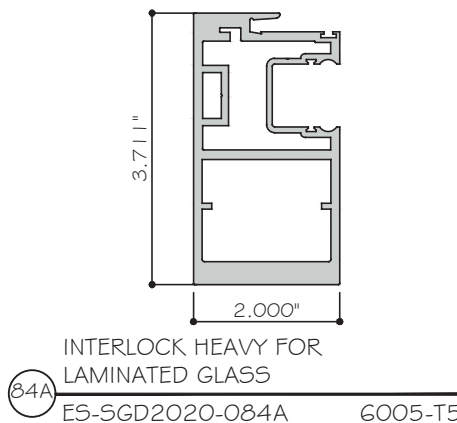
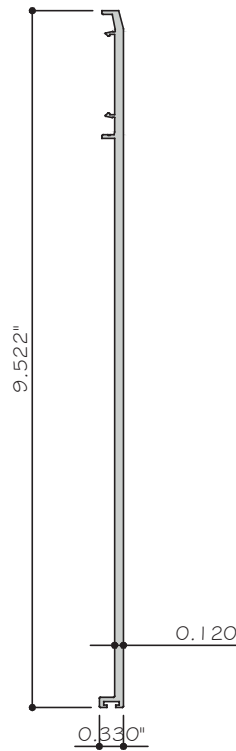
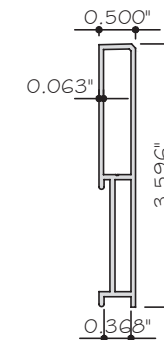
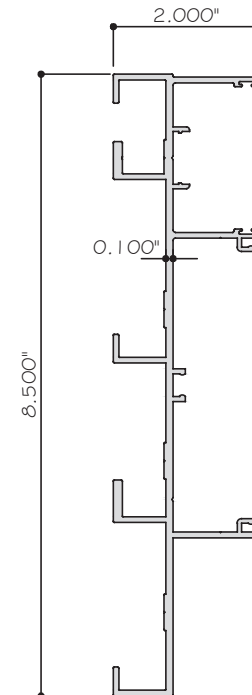
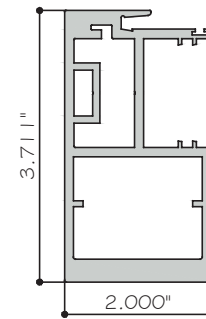
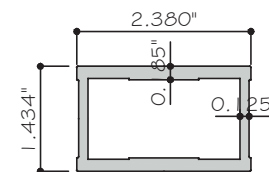
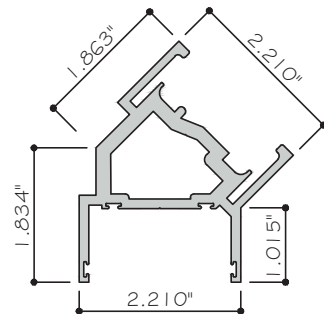
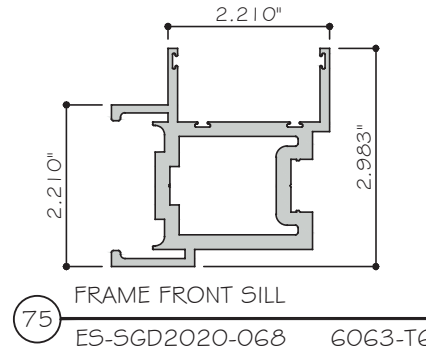
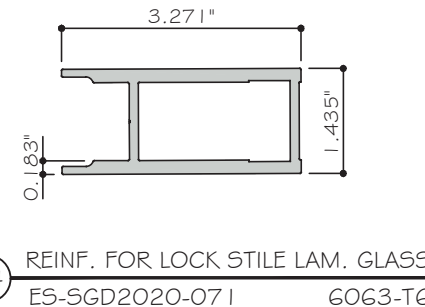
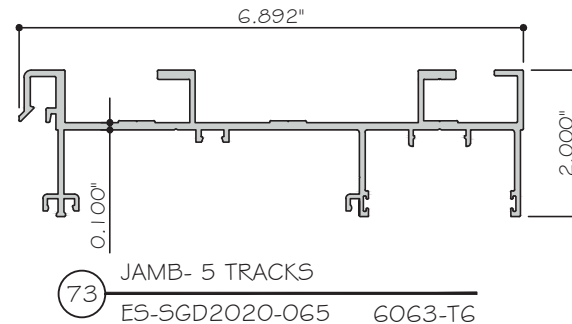
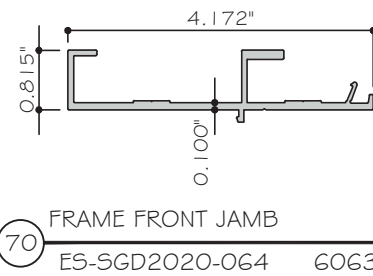
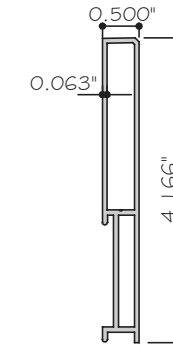
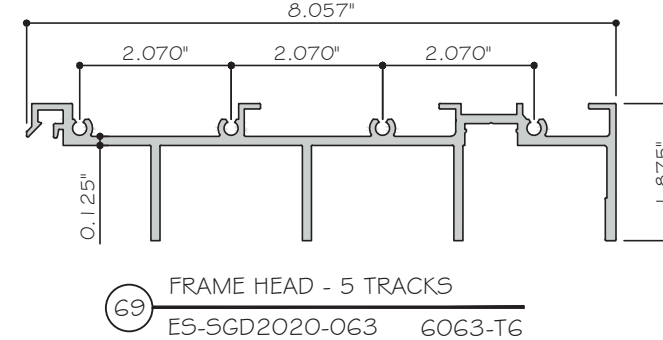
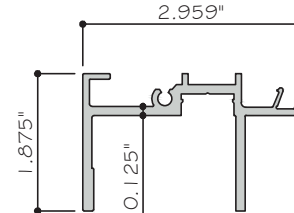
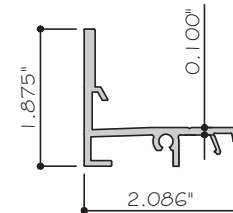
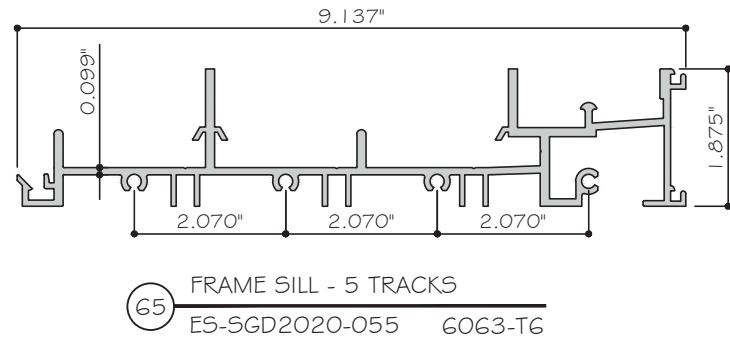
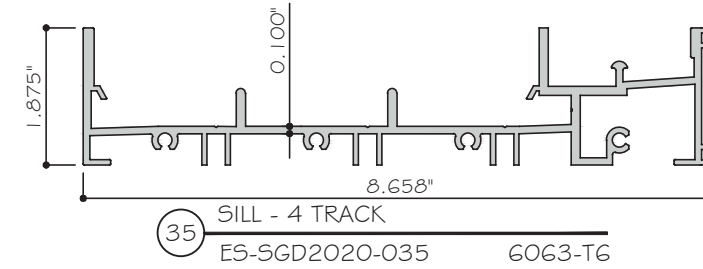
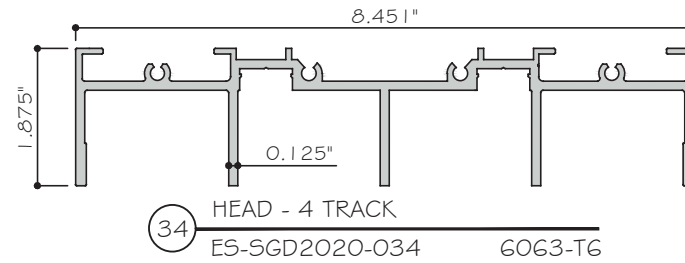
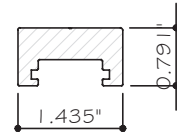
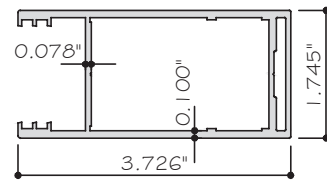
DRAWING NO.

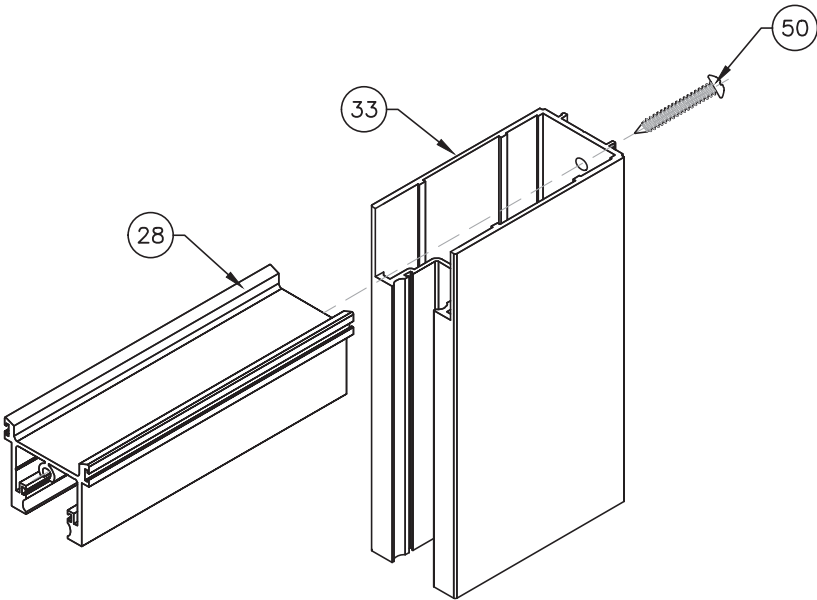
AD23-80

Sheet No.

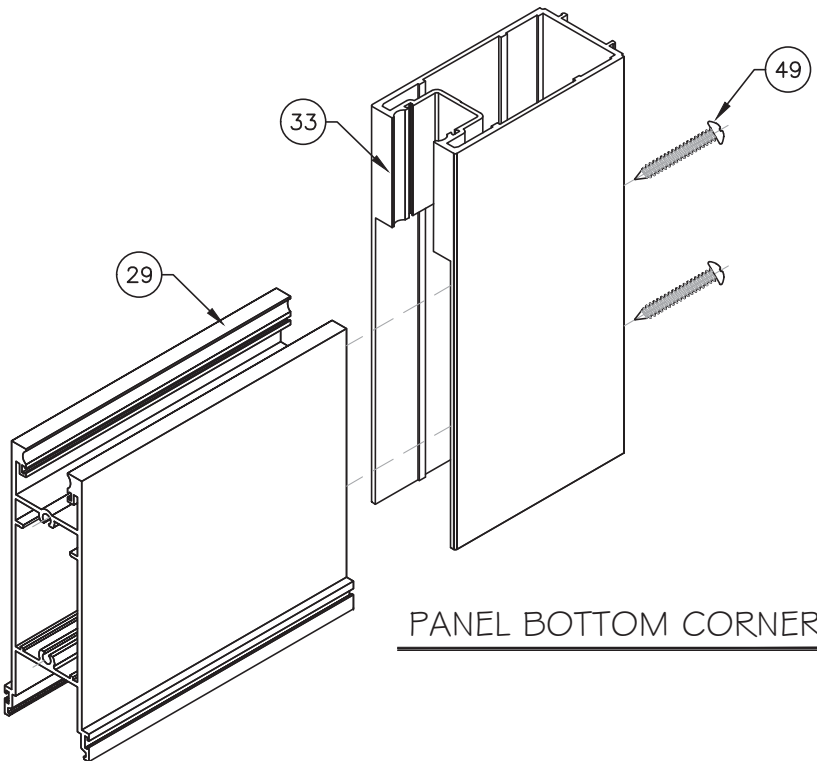
D5

18 OF 22

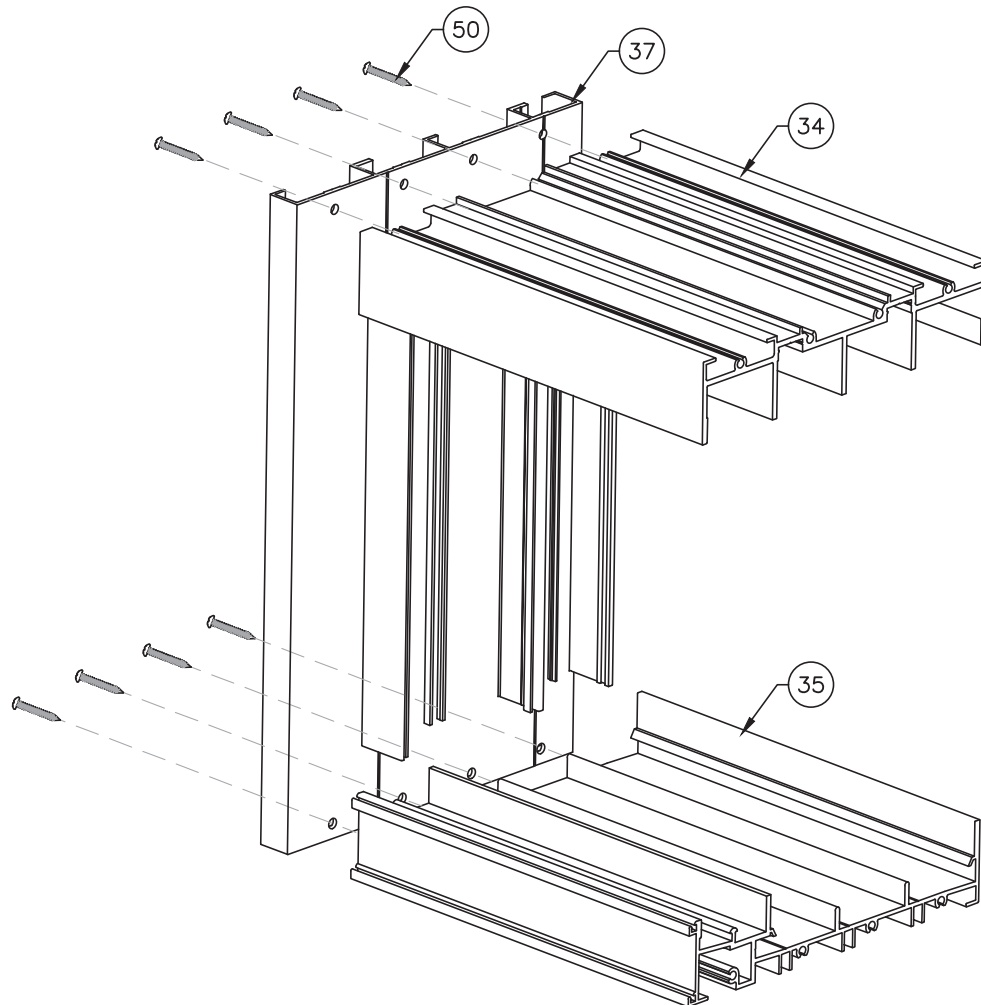




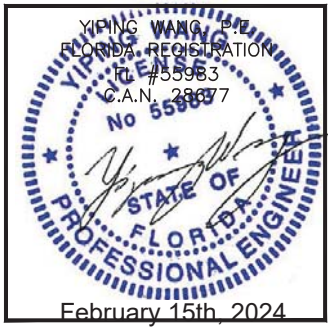
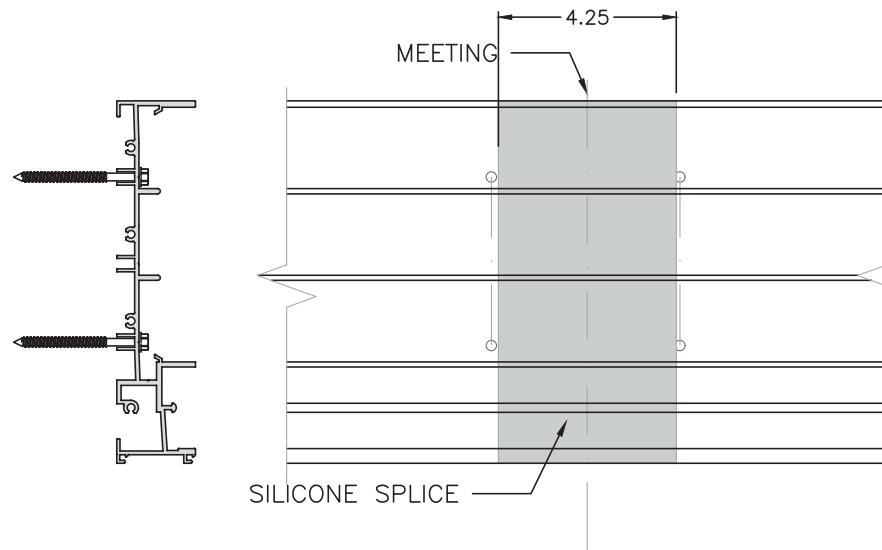
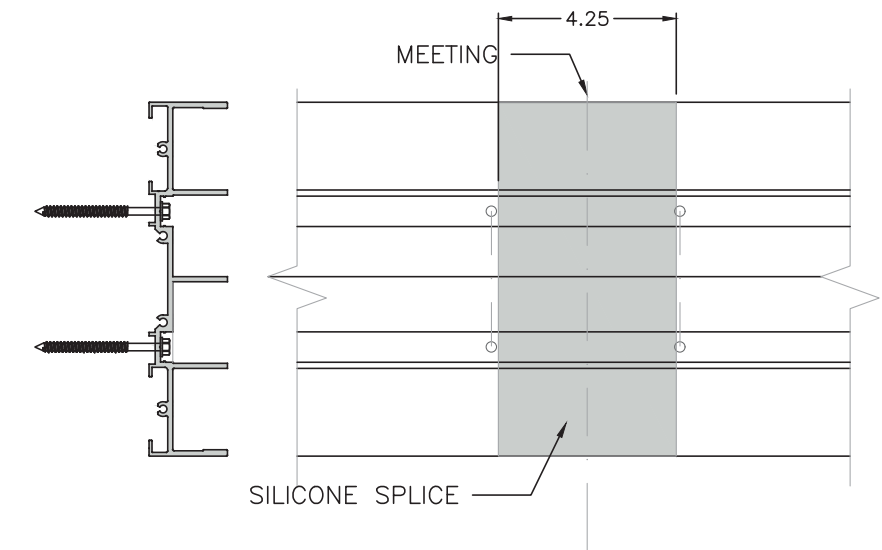
PANEL TOP CORNER



PANEL BOTTOM CORNER



FRAME CORNER
4 TRACK SHOWN



MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301

MIRAMAR, FL 33027

P: 305.271.0117

www.MCYEngineering.com

mcymcyengineering.com

M

C

Y

ES-SGD2020TG SLIDING GLASS DOOR (4&5 TRACK) LARGE MISSILE IMPACT

TECNOGLASS, LLC

3550 NW 49TH STREET

Miami, FL 33142

PH: (305)-342-0890 FAX (786) 513-3965

Rev	Date	Drawn By	Description
R1	02.06.2024	James	NEW APPLICATION

Drawn Date

02.06.2024

Scale

AS SHOWN

DRAWING NO.
AD23-80

ISO

Sheet No.
22 OF 22