

CONTINENTAL GLASS SYSTEMS, LLC.
SERIES 2850 LIFT AND SLIDING GLASS DOOR
SMALL MISSILE IMPACT (SMI)

GENERAL NOTE:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- DOORS RATED FOR SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED FOR ELEVATIONS ABOVE 30'-0" FROM GRADE. IMPACT SHUTTERS ARE REQUIRED FOR ELEVATIONS BELOW 30'-0" FROM GRADE.
- THESE DOORS ARE NOT APPROVED FOR WATER INFILTRATION, TO BE PROTECTED BY OVERHANG OR CANOPY.
- 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 8TH EDITION (2023) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY CONTINENTAL GLASS SYSTEMS, LLC. 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 7-22, 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.

-SEALANTS:
ALL FRAME CORNERS, JOINTS, MULLION SEAMS AND PERIMETER GLAZING BEAD TO FRAME INSTALLATION FASTENERS 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 7-22 STANDARD.
- STEP 2 SEE ALLOWABLE CONFIGURATIONS ON SHEETS E1 & E2 FOR LIFT & SLIDE & E4 FOR STANDARD SGD. SEE CHART 1 ON SHEET E6 FOR ALLOWABLE DESIGN LOAD BASED ON GLASS OPTION.
- STEP 3 USING CHARTS 2 ON SHEET E6 TO SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 4 THE LOWEST VALUE RESULTING FROM STEPS 2 THRU 3 SHALL APPLY TO ENTIRE SYSTEM.

ABBREVIATIONS AND SYMBOLS	
D.L.O. - DAYLITE OPENING	
F.H. - FRAME HEIGHT	
F.W. - FRAME WIDTH	
W - WITH	
WO - WITHOUT	
O.C - ON CENTER	SHEET WHERE SECTION IS DRAWN
SGD - SLIDING GLASS DOOR	
G.B. - GLASS BITE	

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.

SERIES 2850

FL #28876.2



March 07th, 2024

REVISIONS

NO.	DATE	DESCRIPTION
R2	03.06.2024	PBC 2023

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027

www.MCYEngineering.com

mcy@mcyengineering.com

SERIES 2850 LIFT & SLIDING GLASS DOOR – SMI

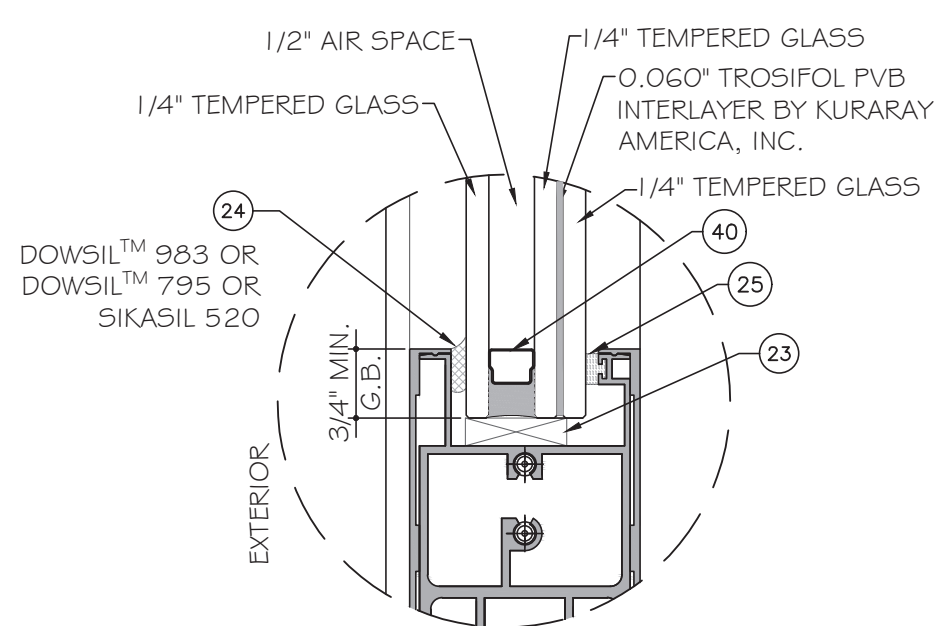
CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

COVER

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

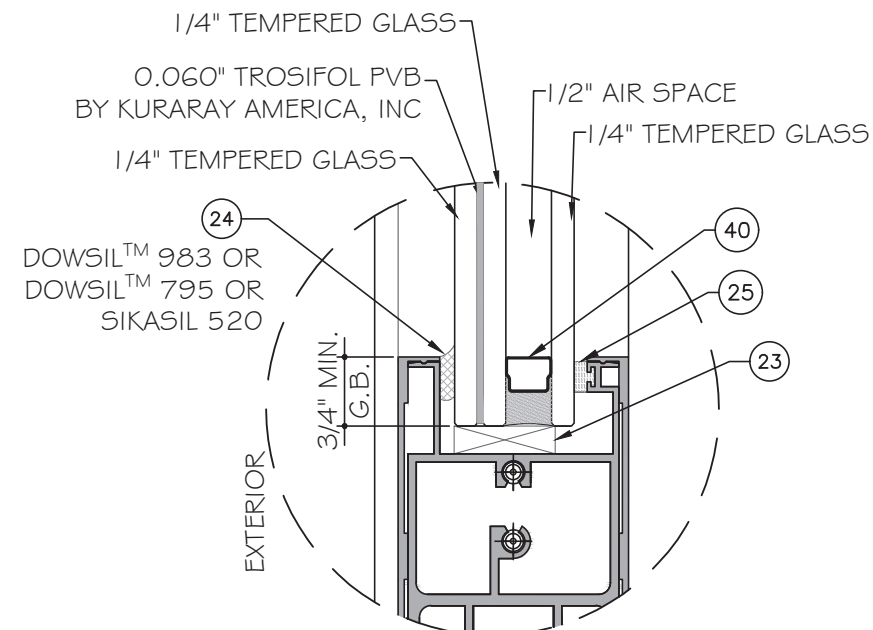
DRAWING NO.
AD19–06

1 OF 23



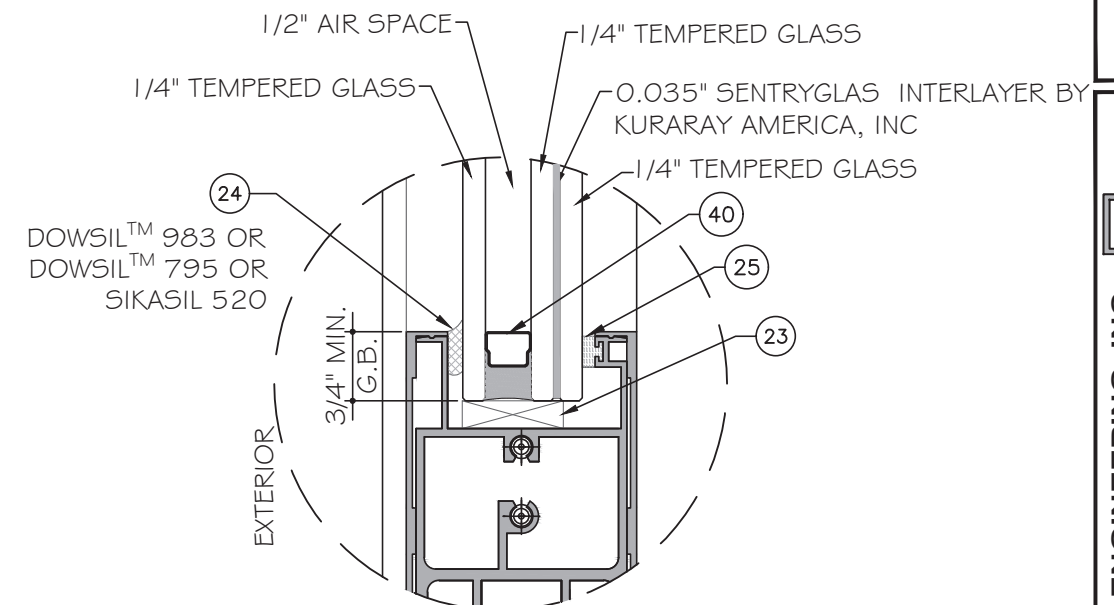
GLASS TYPE "G2"

1 5/16" INSULATED LAMINATED GLASS
LAMINATED ON INTERIOR SIDE



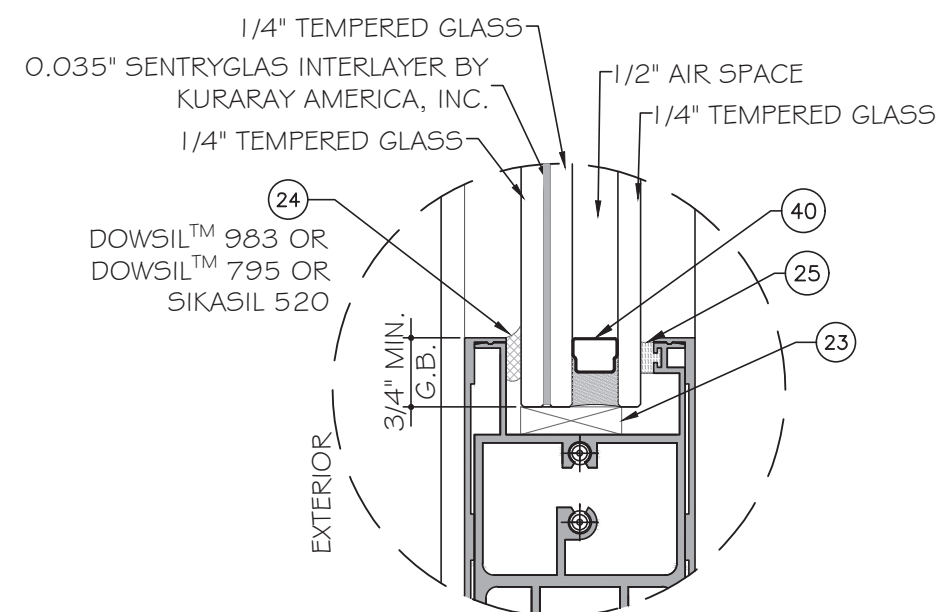
GLASS TYPE "G2A"

1 5/16" INSULATED LAMINATED GLASS
LAMINATED ON EXTERIOR SIDE



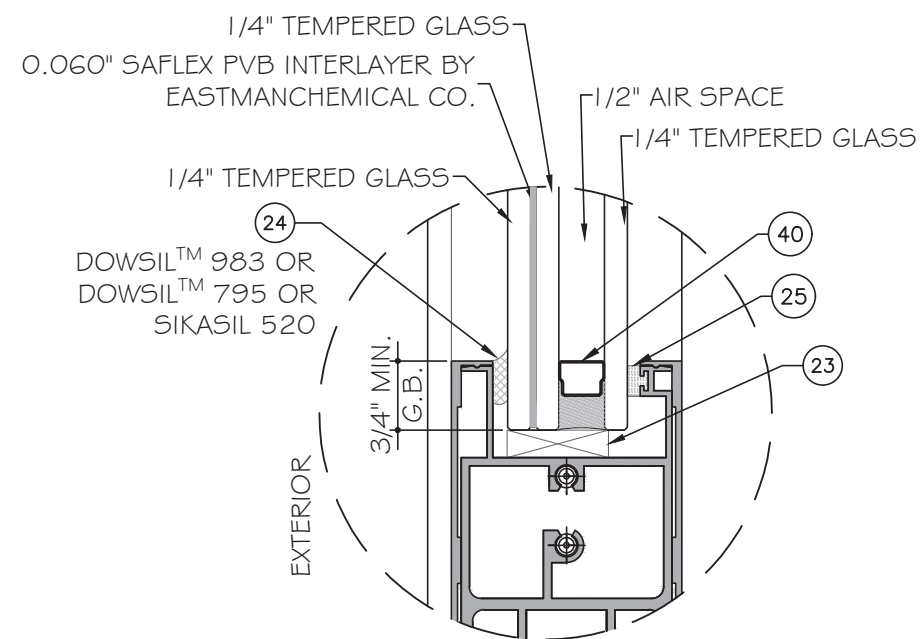
GLASS TYPE "G3"

1 5/16" INSULATED LAMINATED GLASS
LAMINATED ON INTERIOR SIDE



GLASS TYPE "G3A"

1 5/16" INSULATED LAMINATED GLASS
LAMINATED ON EXTERIOR SIDE



GLASS TYPE "G4A"

1 5/16" INSULATED LAMINATED GLASS
LAMINATED ON EXTERIOR SIDE

NOTE:
GLASS COMPLIES WITH ASTM E1300-16 (3 SEC. GUSTS).

SERIES 2850

FL #28876.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
PE #55983
NO. 28677

March 07th, 2024

REVISIONS

NO.	DATE	DESCRIPTION
R2	03.06.2024	PBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301 P: 786.360.2786
MIRAMAR, FL 33027 P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI

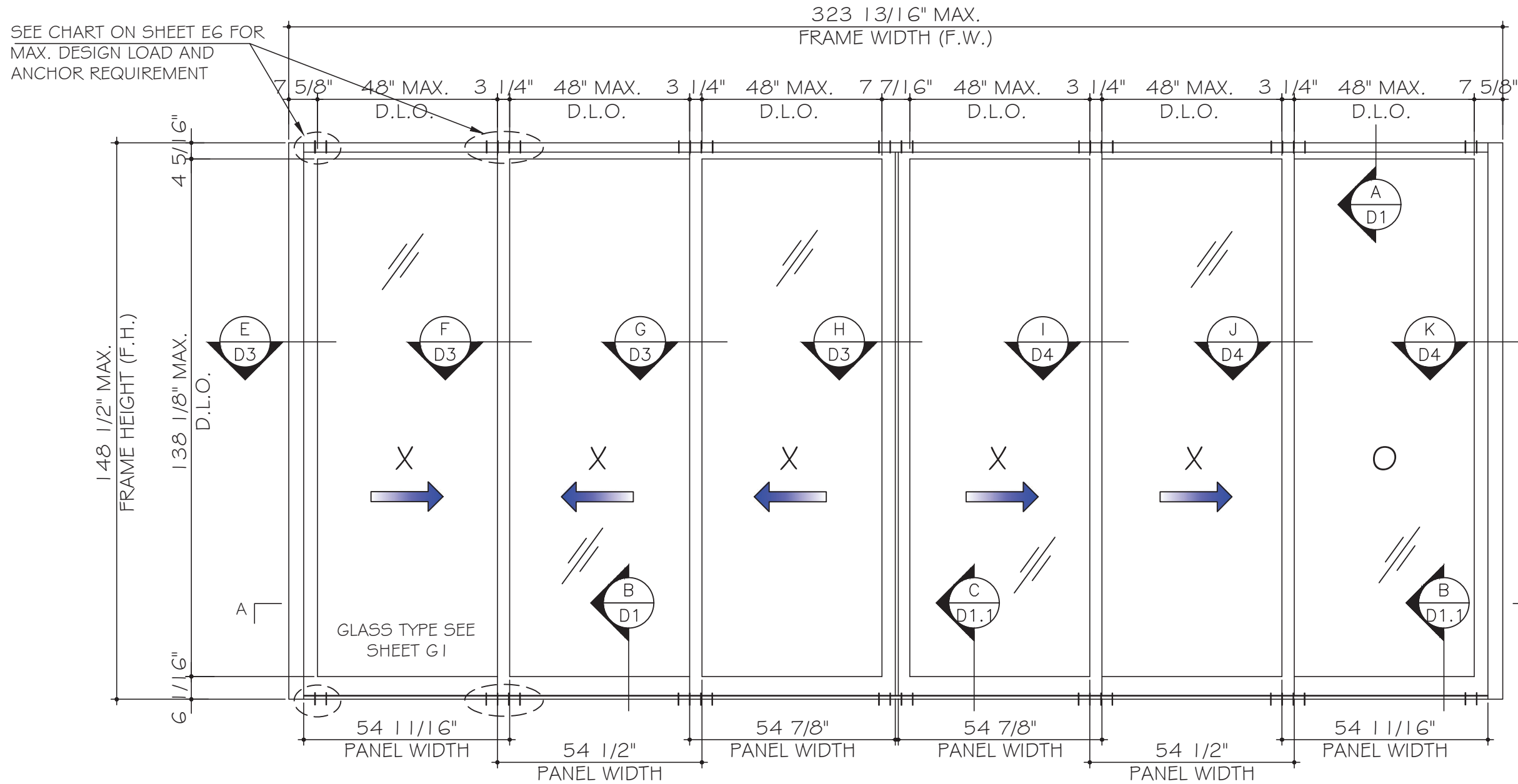
CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

G1

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

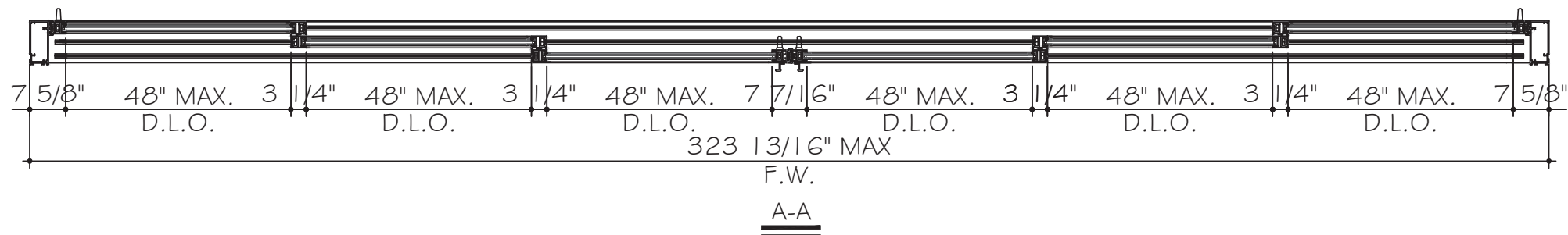
DRAWING NO.
AD19-06

2 OF 23



TYPICAL EXTERIOR ELEVATION (XXXXXO)
REINFORCED - LIFT & SLIDE

SEE CHART ON SHEET E6 FOR MAX. DESIGN
LOAD AND ANCHOR REQUIREMENT



SERIES 2850

FL #28876.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
NO. 55983
EXPIRATION 28677

March 07th, 2024

REVISIONS	
NO.	DATE
1	03.06.2024
2	03.06.2024

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

SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

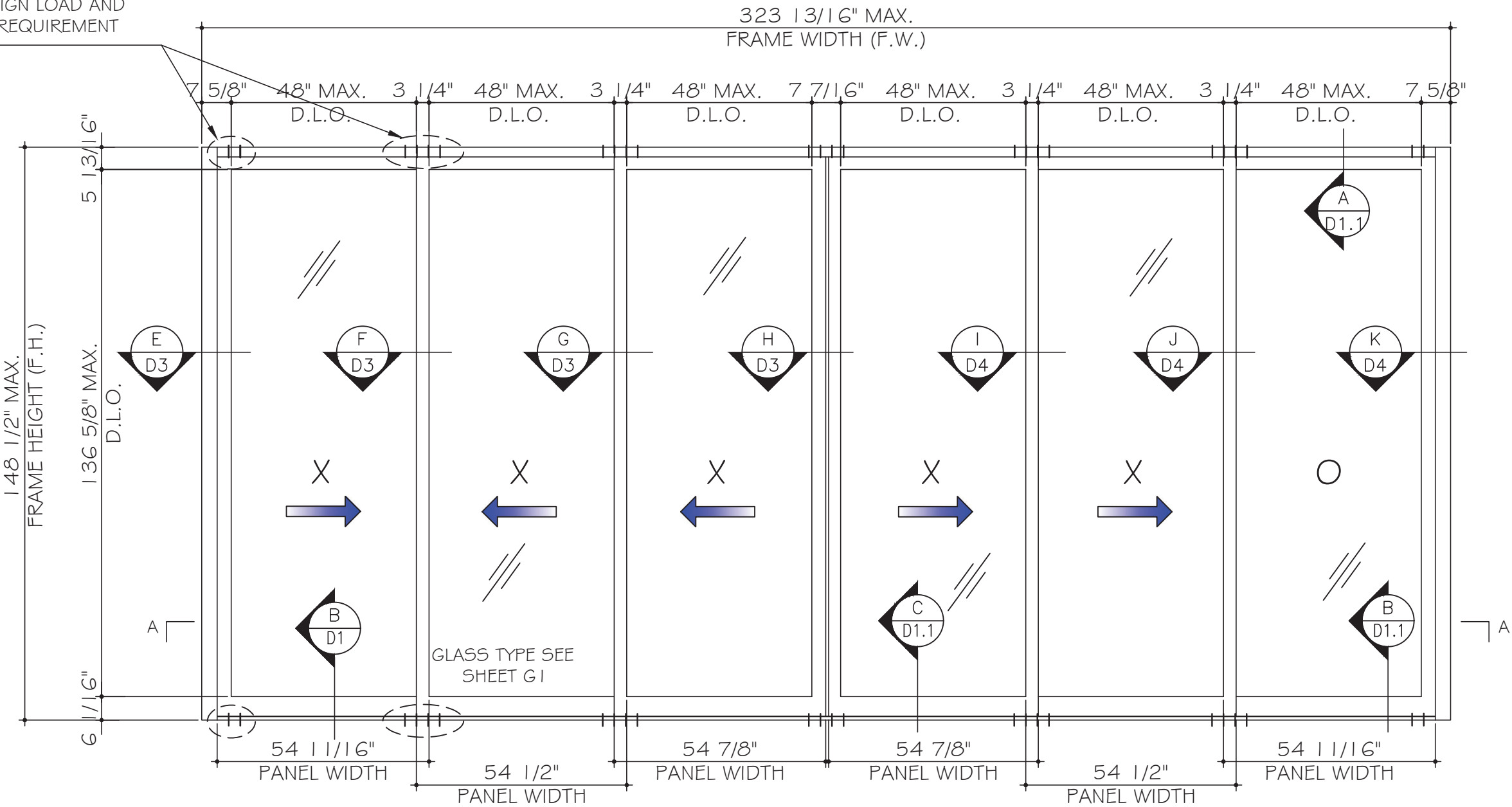
E1

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

DRAWING NO.
AD19-06

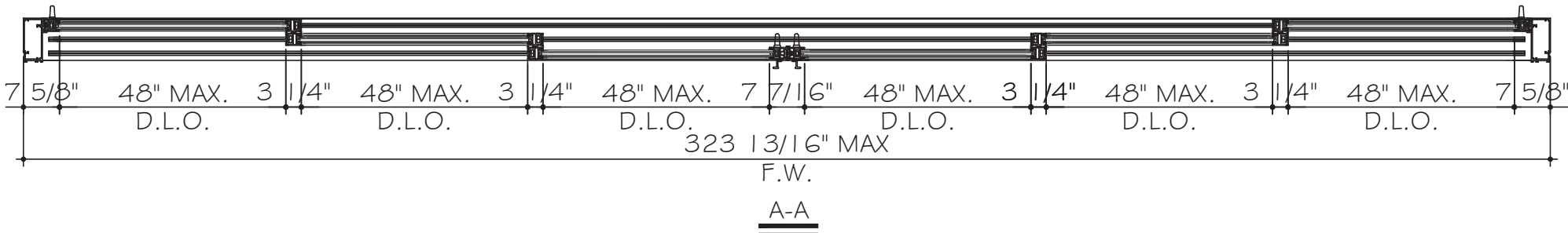
3 OF 23

SEE CHART ON SHEET E4 FOR
MAX. DESIGN LOAD AND
ANCHOR REQUIREMENT



TYPICAL EXTERIOR ELEVATION (XXXXXO)
REINFORCED - LIFT & SLIDE

SEE CHART ON SHEET E6 FOR MAX. DESIGN
LOAD AND ANCHOR REQUIREMENT



SERIES 2850

FL #28876.2

YIPING WANG
FLORIDA REGISTRATION
PE #55983
C.A.# 28677

March 07th, 2024

REVISIONS

NO.	DATE	DESCRIPTION
02	03.06.2024	FBC 2023

MCY

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

SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

E2

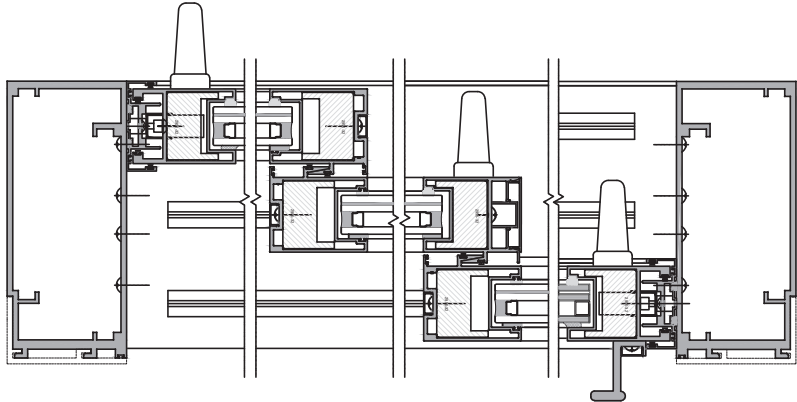
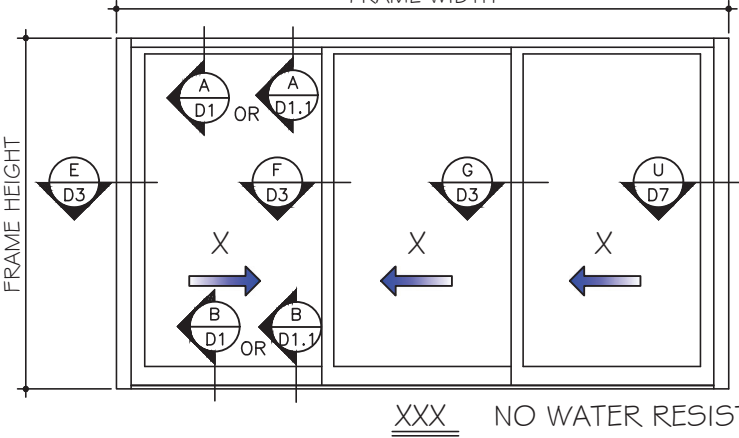
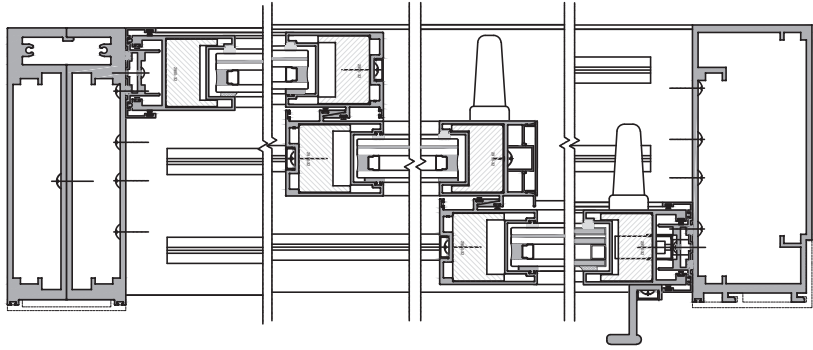
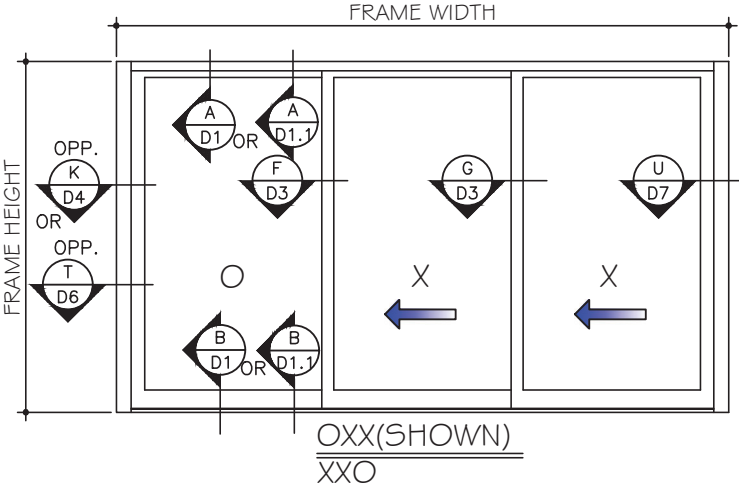
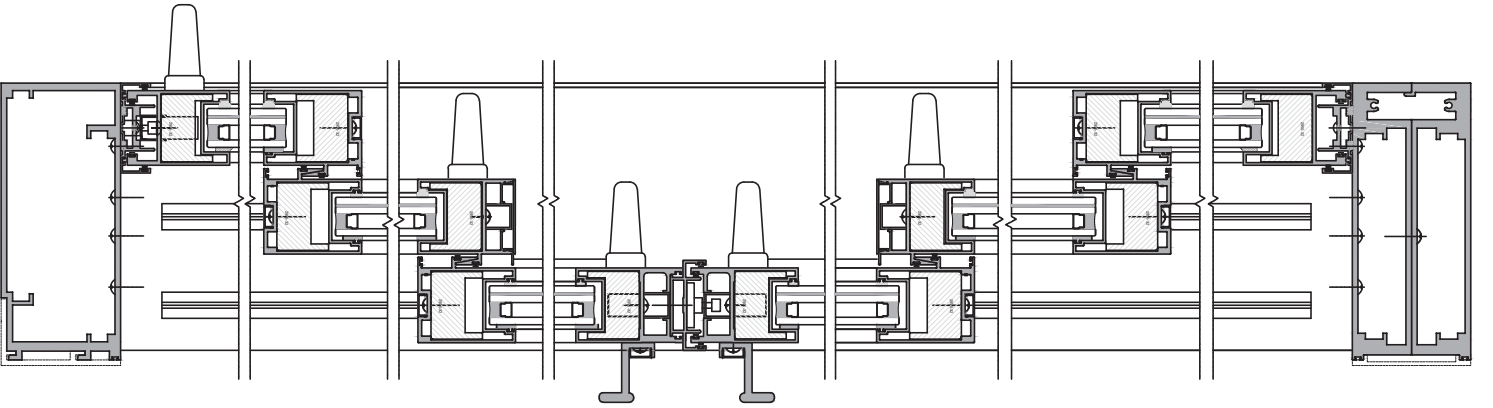
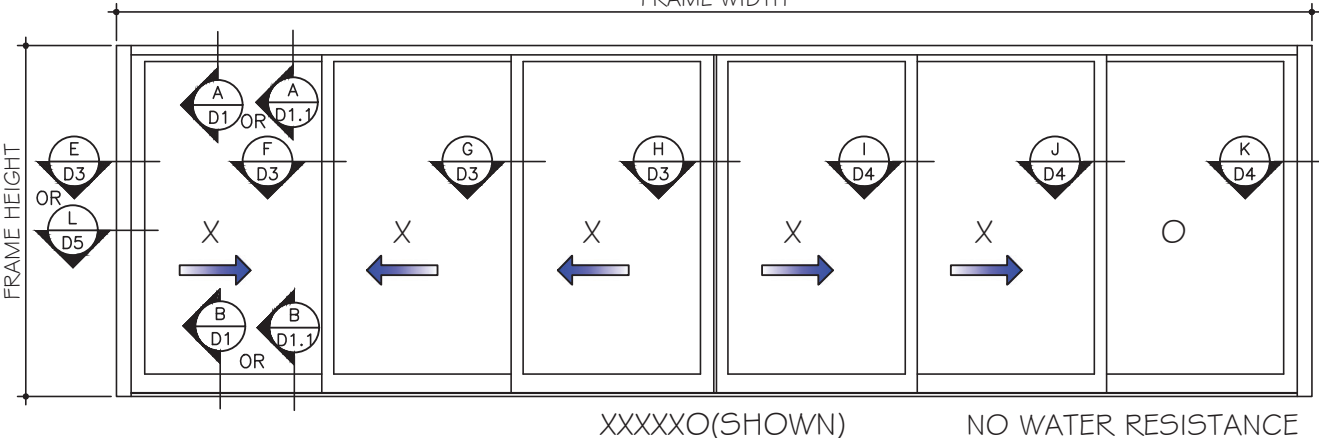
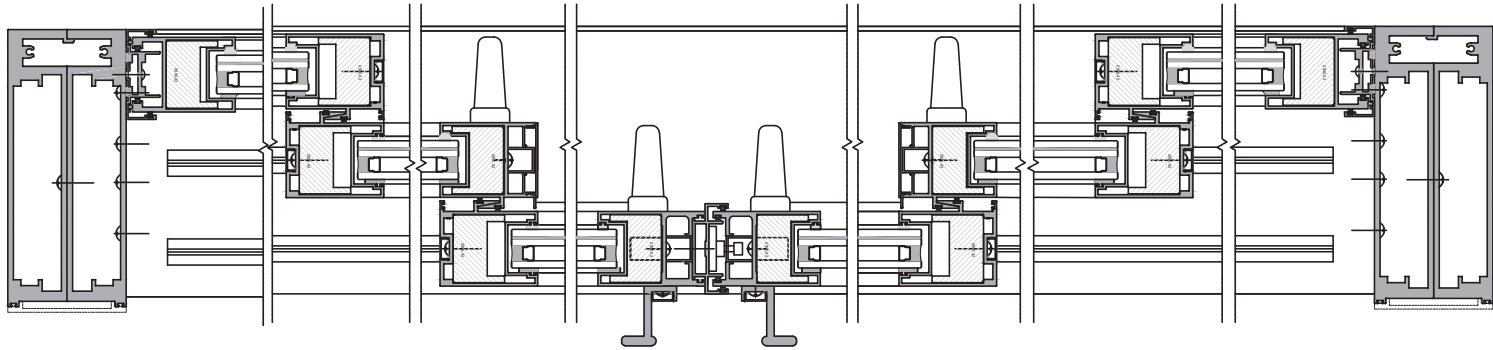
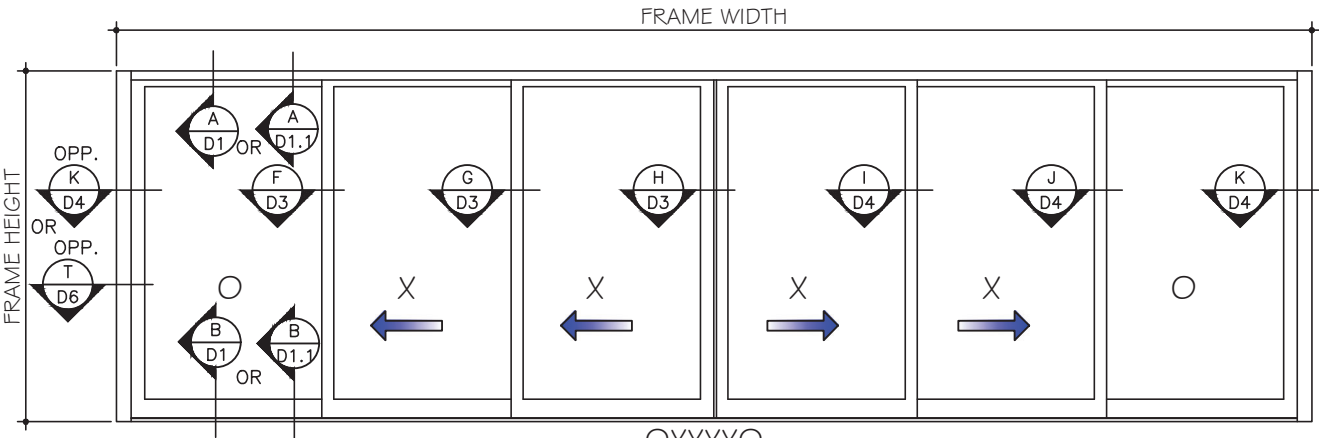
DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

DRAWING NO.

AD19-06

4 OF 23

TYPICAL LIFT & SLIDE OPTIONAL CONFIGURATIONS



MAXIMUM DESIGN LOAD
SEE CHARTS ON SHEET EG

ALL SGD TYPES CAN BE USED WITH OR WITHOUT
WINDOW WALL AT EITHER SIDE OF SGD.

- NOTES:
1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE ONLY.
 2. SEE COVER SHEET FOR GLASS OPTIONS
 3. SEE SHEET D1 & D1.1 & D2 FOR ANCHOR DETAILS AND OPTIONS AT HEAD/SILL.
 4. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

SERIES 2850
FL #28876.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55993
March 07th, 2024

REVISIONS	
NO.	DATE
1	03.06.2024
2	03.06.2024
3	03.06.2024
4	03.06.2024
5	03.06.2024
6	03.06.2024
7	03.06.2024
8	03.06.2024
9	03.06.2024
10	03.06.2024

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

SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI
CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

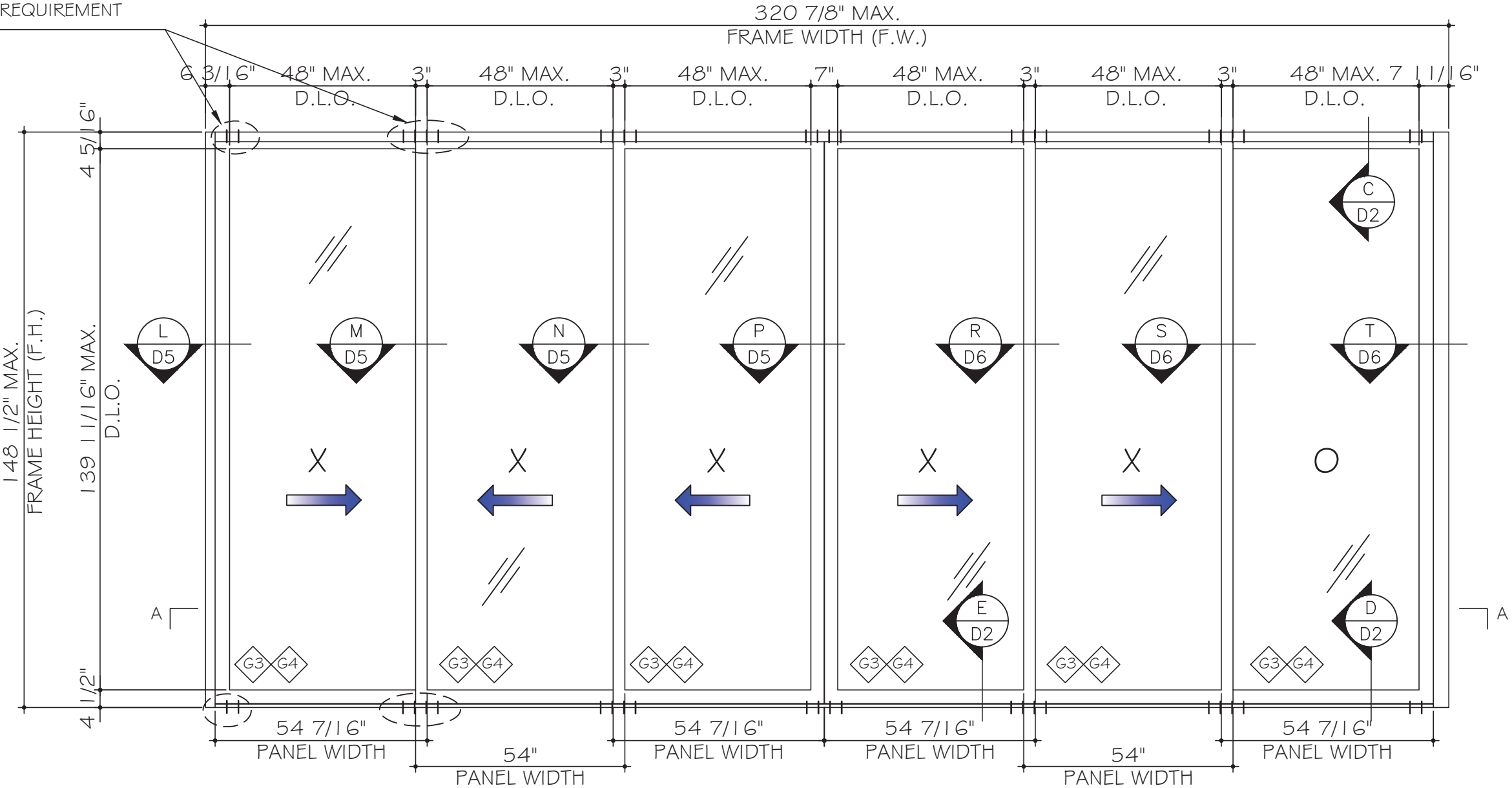
E3

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

DRAWING NO.
AD19-06

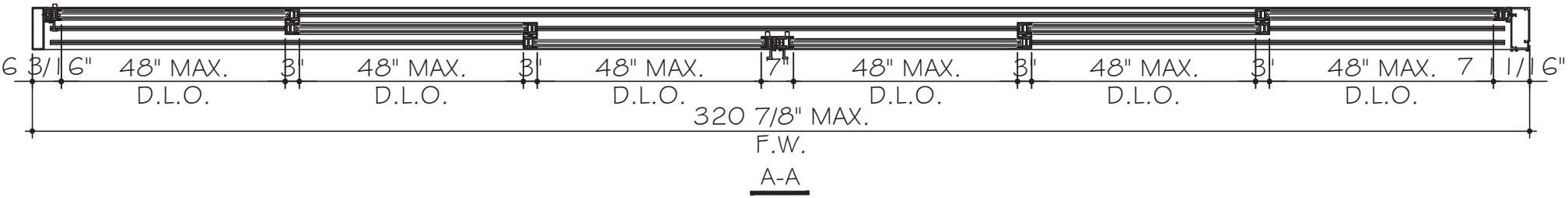
5 OF 23

SEE CHART ON SHEET E6 FOR
MAX. DESIGN LOAD AND
ANCHOR REQUIREMENT



TYPICAL EXTERIOR ELEVATION (XXXXXO)
REINFORCED - STANDARD

SEE CHART ON SHEET E6 FOR MAX. DESIGN
LOAD AND ANCHOR REQUIREMENT



SERIES 2850

FL #28876.2

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 459983
Exp. 12/31/2025

March 07th, 2024

REVISIONS

NO.	DATE	DESCRIPTION
02	03.06.2024	PBC 2023

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027

P: 786.360.2786
P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

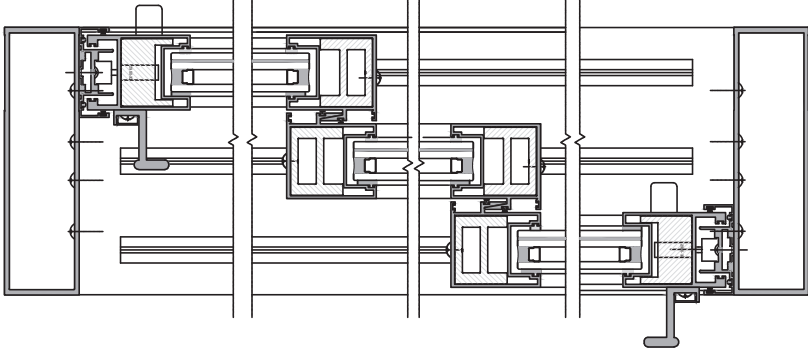
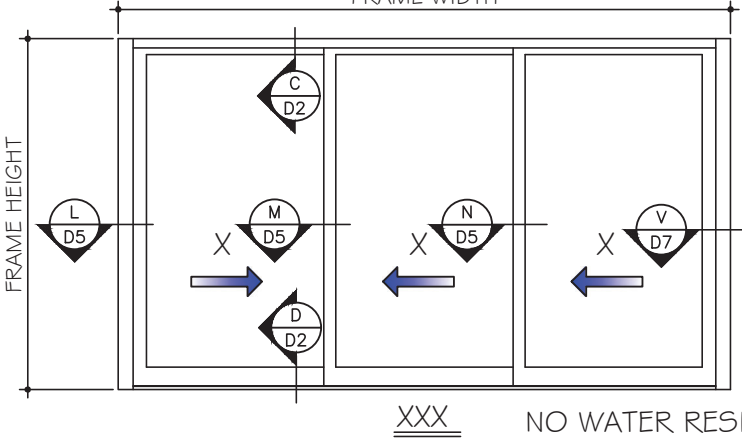
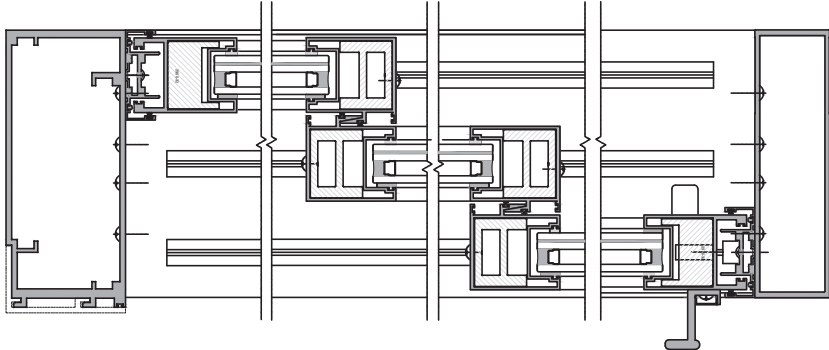
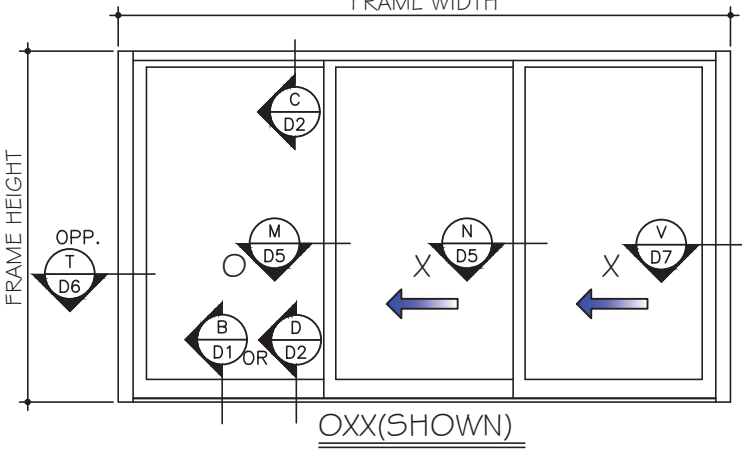
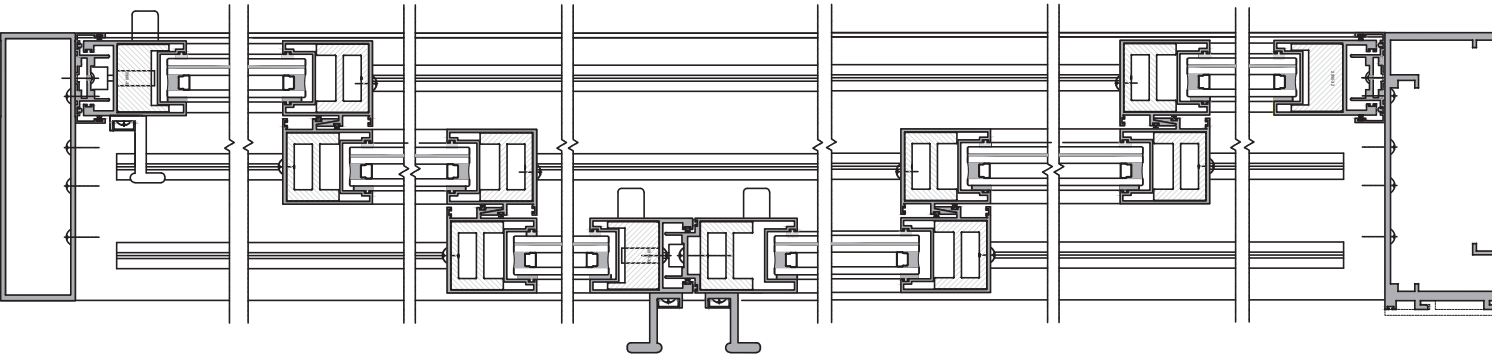
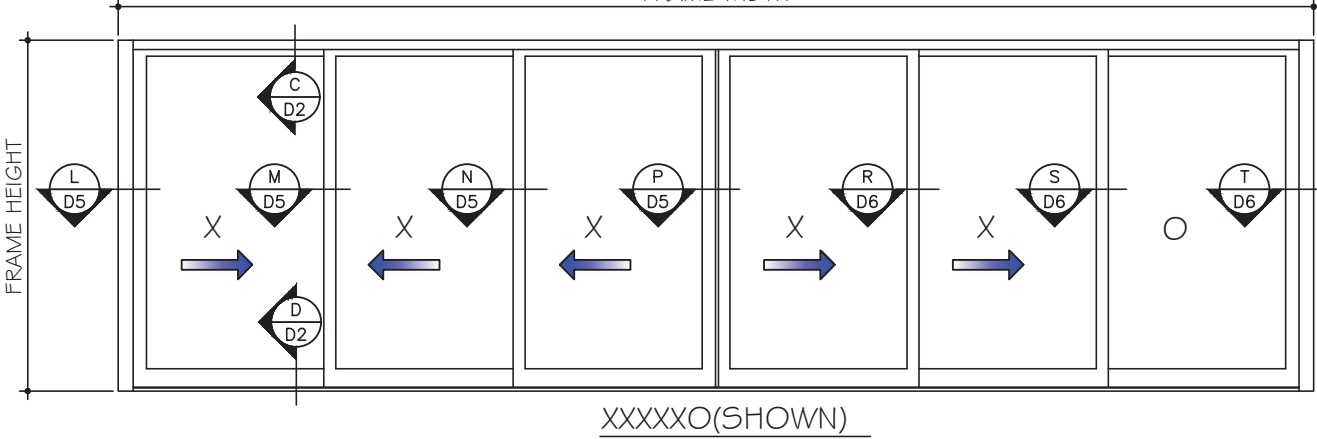
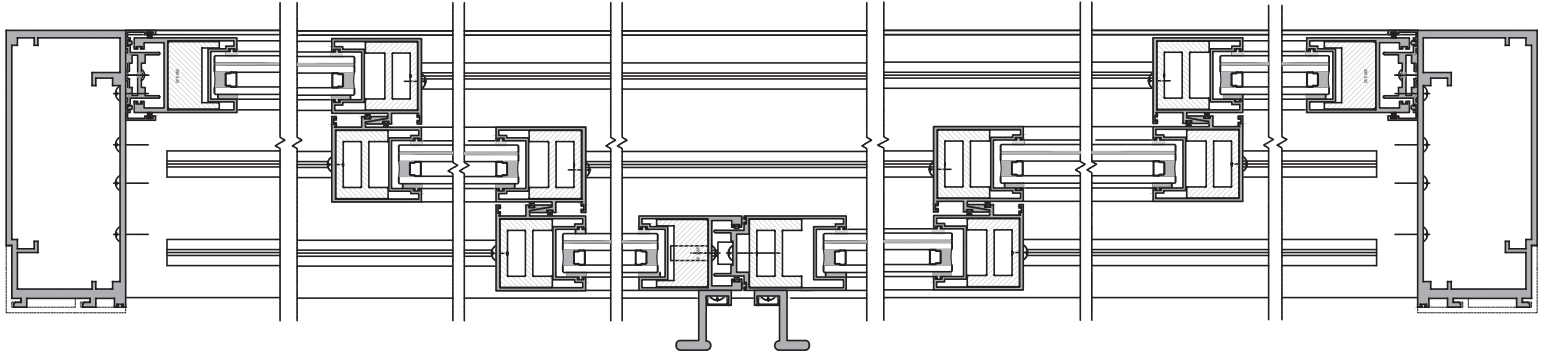
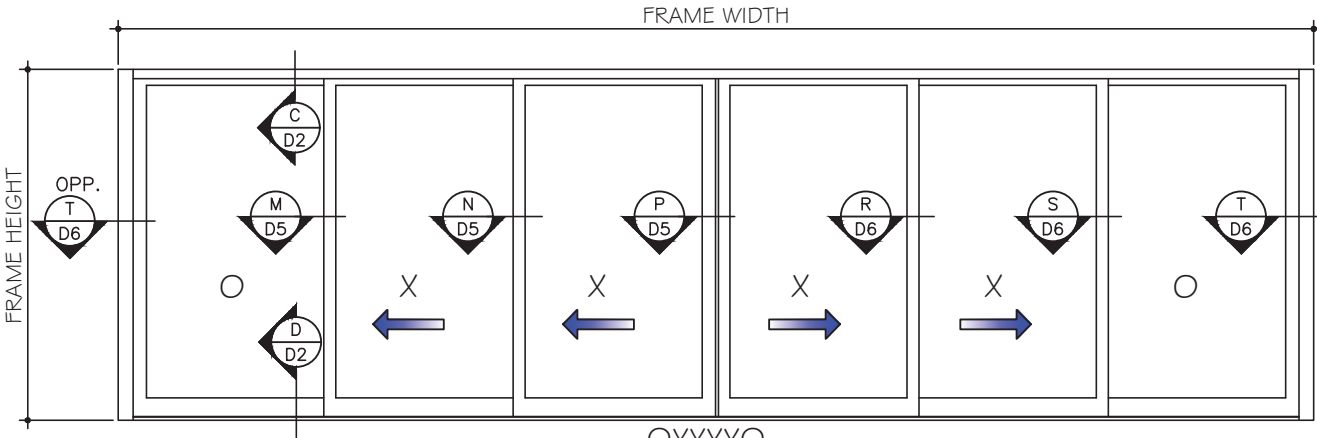
E4

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

DRAWING NO.
AD19-06

6 OF 23

STANDARD SGD OPTIONAL CONFIGURATIONS



MAXIMUM DESIGN LOAD
SEE CHARTS ON SHEET E6

ALL SGD TYPES CAN BE USED WITH OR WITHOUT
WINDOW WALL AT EITHER SIDE OF SGD.

- NOTES:
- 1. CONFIGURATIONS SHOWN FOR ILLUSTRATION PURPOSE ONLY.
 - 2. SEE COVER SHEET FOR GLASS OPTIONS
 - 3. SEE SHEET D1 & D1.1 & D2 FOR ANCHOR DETAILS AND OPTIONS AT HEAD/SILL.
 - 4. DOOR SHALL MEET EGRESS REQUIREMENTS AS APPLICABLE PER FBC.

SERIES 2850

FL #28876.2

March 07th, 2024

REVISIONS

NO.	DATE	DESCRIPTION
F2	03.08.2024	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027

www.MCYEngineering.com mcy@mcyengineering.com

SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

E5

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

DRAWING NO.
AD19-06

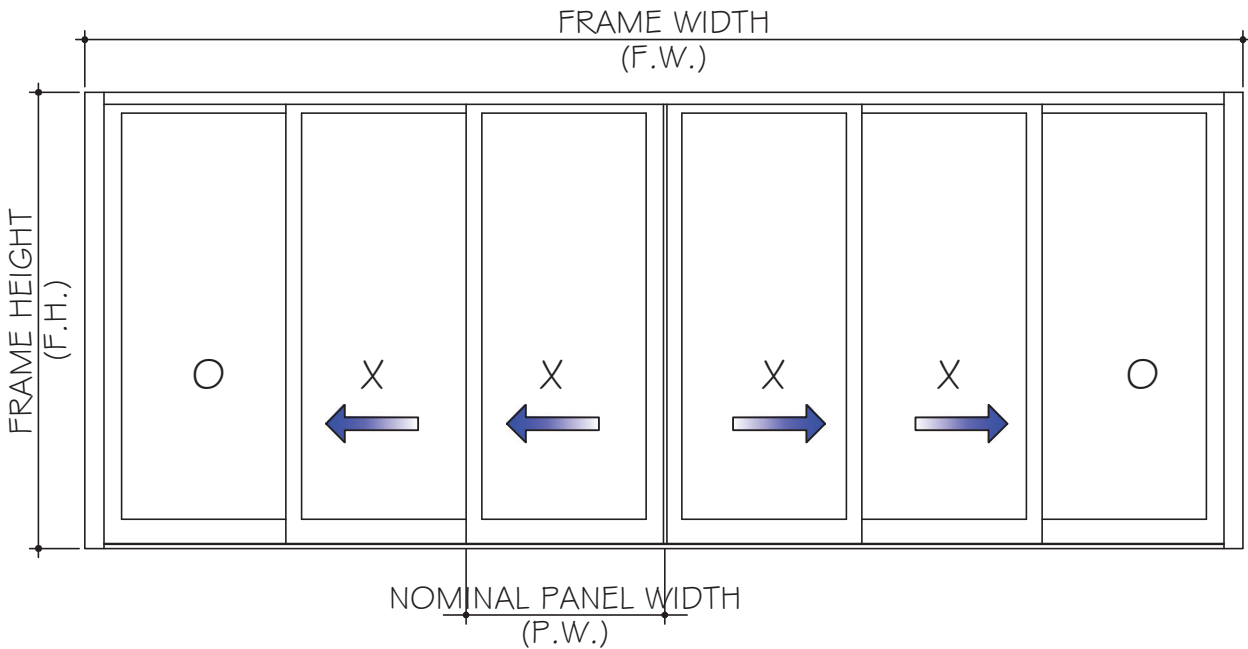
7 OF 23

CHART 1: LIFT & SLIDE & STANDARD SGD CAPACITY CHART

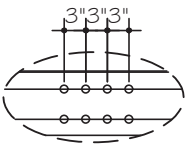
NOM. PANEL W.	FRAME. PANEL H.	GLASS TYPE	Pd ALL (+/-) PSF
IN	IN		
54.5	148.5	G3,G4A	162
50.5	148.5	G2,G2A,G3A	162
54.5	137		162
54.5	132		162
54.5	148.5	G2,G2A & G3A	110

CHART 2: DESIGN LOAD DUE TO ANCHOR CAPACITY (PSF)

ANCHOR TYPES		ANCHOR TYPE "A"			ANCHOR TYPE "B"		
MAX. NOM. DIM.		A8	A10	A12	B8	B10	B12
PW (INCH)	FH (INCH)	+/-	+/-	+/-	+/-	+/-	+/-
54.5	148.5	116.9	146.2	162	106.1	132.6	159.1



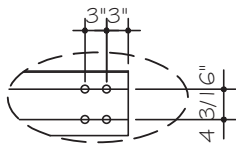
AT SILL
(INTERLOCKS/ASTRAGALS)



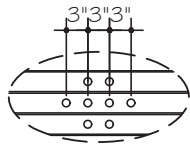
"A8"

A8---(8) ANCHORS AT INTERLOCK/ASTRAGAL,(4) AT END
B8---(8) ANCHORS AT INTERLOCK/ASTRAGAL,(4) AT END

AT SILL
(JAMB SIDE)

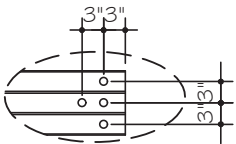


AT HEAD
(INTERLOCKS/ASTRAGALS)

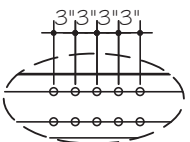


"A8" OR "B8"

AT HEAD
(JAMB SIDE)



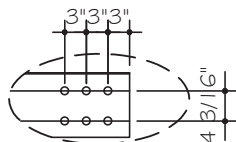
AT SILL
(INTERLOCKS/ASTRAGALS)



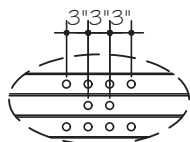
"A10"

A10--(10) ANCHORS AT INTERLOCK/ASTRAGAL,(5) OR (6) AT END
B10--(10) ANCHORS AT INTERLOCK/ASTRAGAL,(5) OR (6) AT END

AT SILL
(JAMB SIDE)

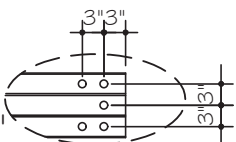


AT HEAD
(INTERLOCKS/ASTRAGALS)

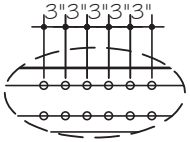


"A10" OR "B10"

AT HEAD
(JAMB SIDE)



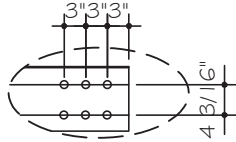
AT SILL
(INTERLOCKS/ASTRAGALS)



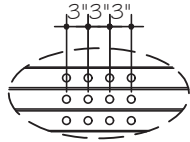
"A12"

A12--(12) ANCHORS AT INTERLOCK/ASTRAGAL,(6) AT END
B12--(12) ANCHORS AT INTERLOCK/ASTRAGAL,(6) AT END

AT SILL
(JAMB SIDE)

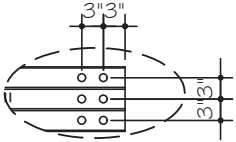


AT HEAD
(INTERLOCKS/ASTRAGALS)



"A12" OR "B12"

AT HEAD
(JAMB SIDE)



SERIES 2850

FL #28876.2

March 07th, 2024

REVISIONS

NO.	DATE	DESCRIPTION
R2	03.06.2024	PBC 2023

MCY

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027

P: 786.360.2786
P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI

CONTINENTAL GLASS SYSTEMS, LLC.

325 WEST 74 PLACE HIALEAH, FL 33014

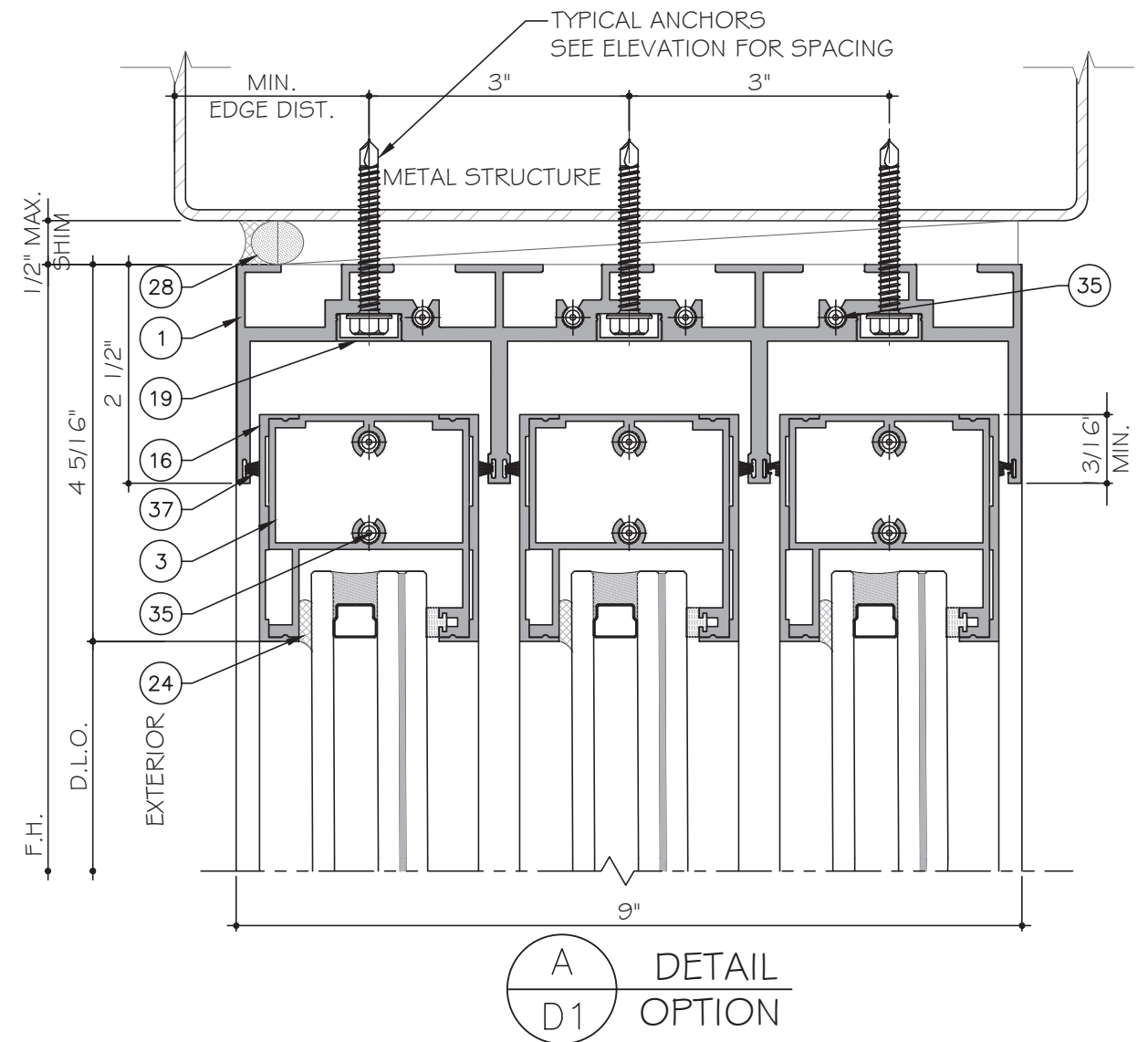
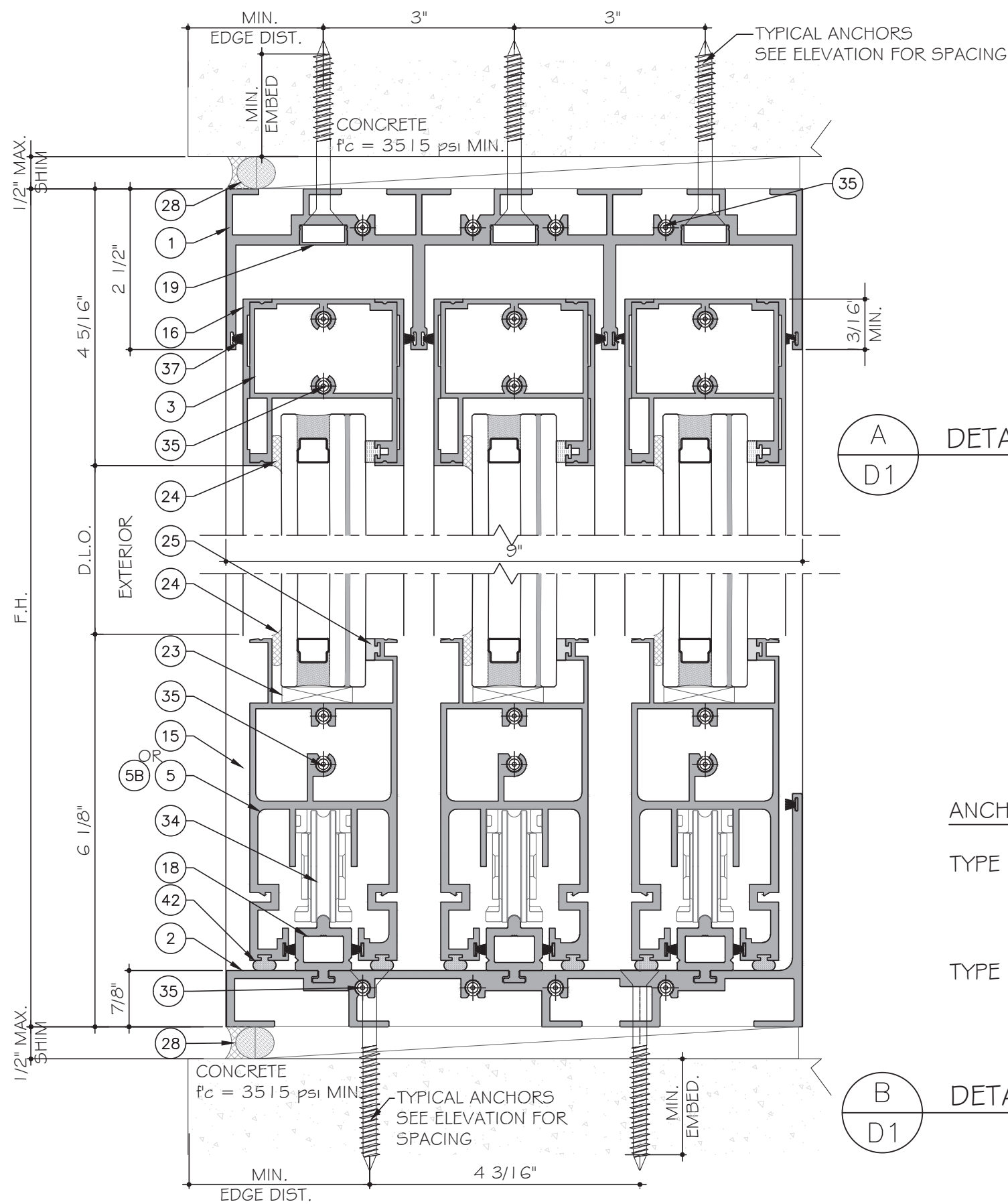
TEL (305) 231-1101 FAX (305) 231-1103

E6

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

DRAWING NO.
AD19-06

8 OF 23



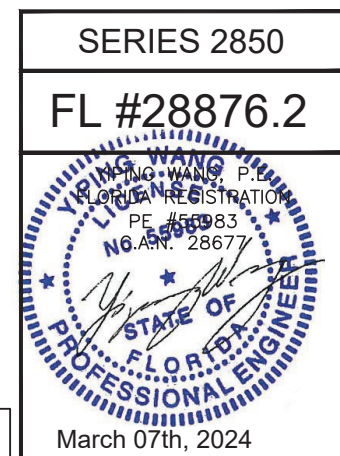
ANCHOR TYPES: (SEE ELEVATIONS FOR SPACING)

TYPE 'A' -- 5/16" DIA. ULTRACON BY 'DEWALT' ($F_u = 177 \text{ KSI}$, $F_y = 155 \text{ KSI}$)
DIRECTLY INTO CONCRETE ($f'_c = 3515 \text{ psi MIN.}$)
2" MIN. EMBED

TYPE 'B' -- 5/16" DIA. SELF DRILLING SCREWS (GRADE 5 CR5) ($F_u = 120 \text{ KSI}$, $F_y = 90 \text{ KSI}$)
INTO MIAMI-DADE COUNTY APPROVED MULLIONS.
INTO METAL STRUCTURES
STEEL: 3/16" THK. MIN. (A36 MIN.)
ALUMINUM: 3/16" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE = 2-1/2" MIN.
INTO METAL STRUCTURE = 1" MIN.

LIFT & SLIDE DETAIL



NO.	DATE	DESCRIPTION
R2	03.06.2024	PBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

MCY

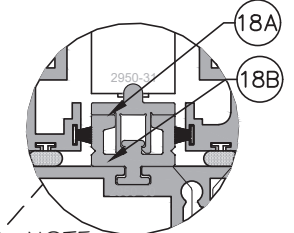
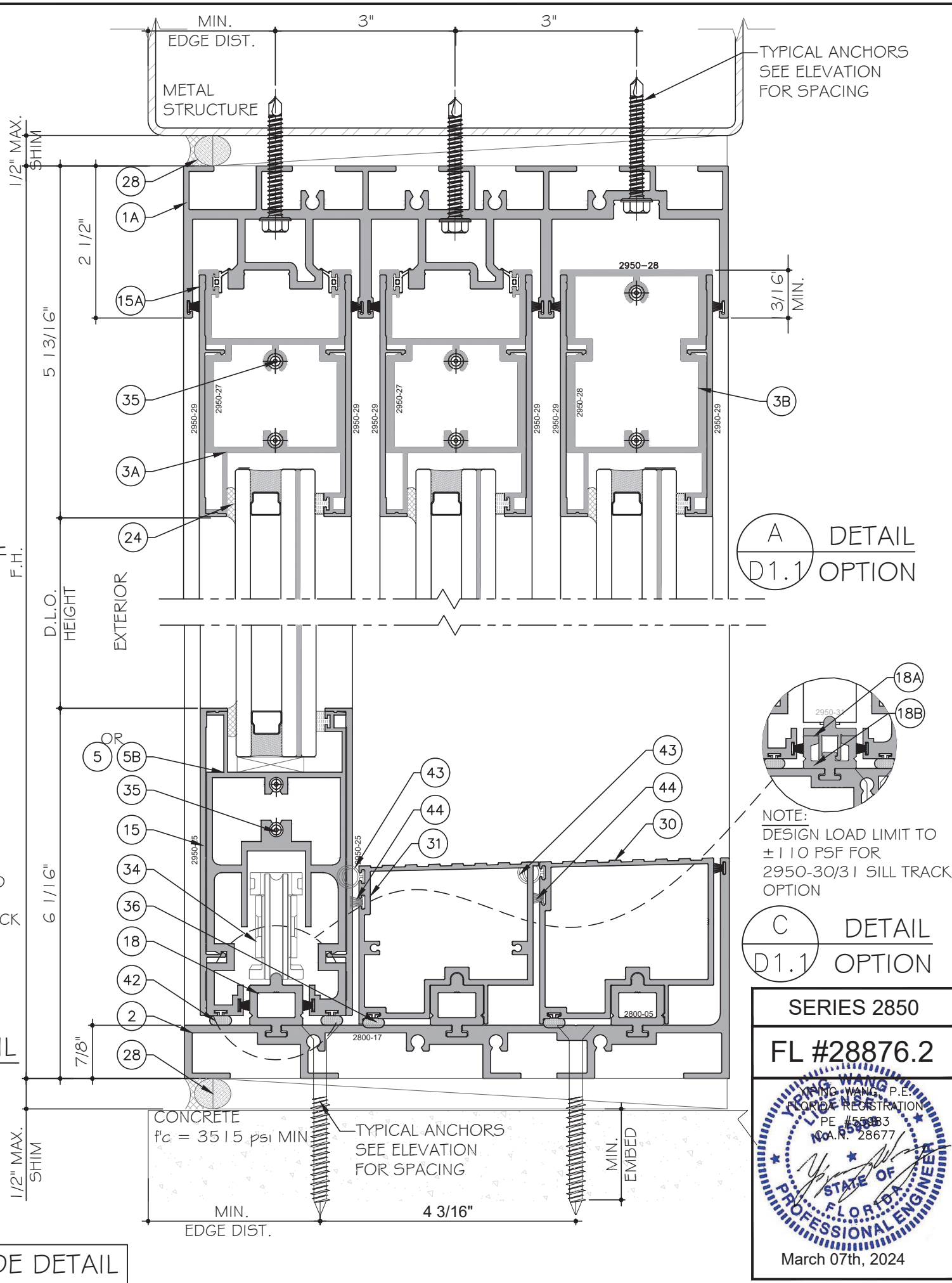
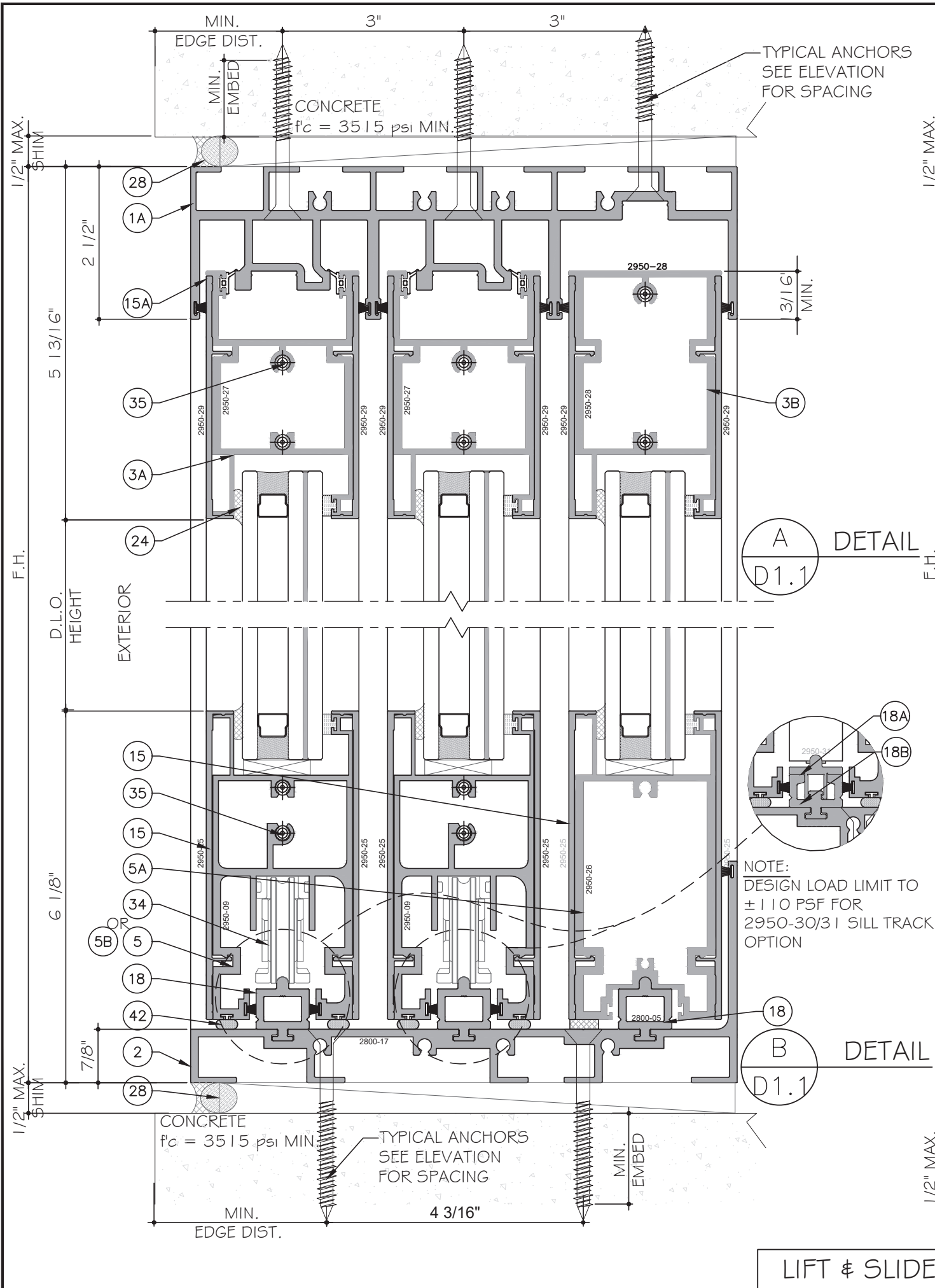
12781 MIRAMAR PKWY. STE. 301 P: 786.360.2786
MIRAMAR, FL 33027 P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

D1	
DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145
DRAWING NO.	AD19-06
	9 OF 23



NOTE:
DESIGN LOAD LIMIT TO
± 110 PSF FOR
2950-30/31 SILL TRACK
OPTION

C
DETAIL
D1.1
OPTION

SERIES 2850

FL #28876.2

Y. WANG, P.E.
FLORIDA REGISTRATION
PE #455983
No. R-28677

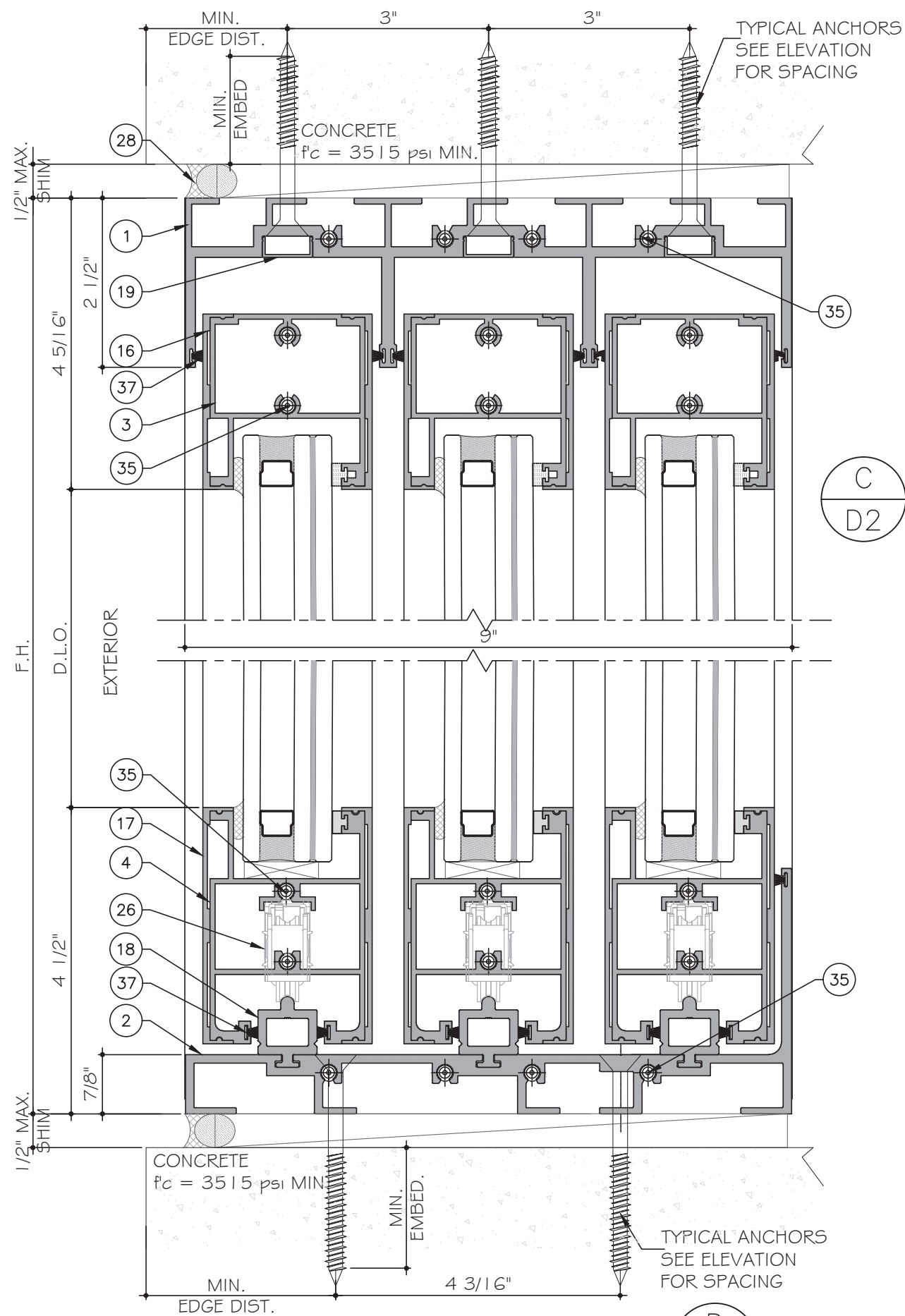
March 07th, 2024

REVISES		NO. DATE		DESCRIPTION	
		R2		03.06.2024	
				PBC 2023	

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

SERIES 2850 LIFT & SLIDING GLASS DOOR – SMI		CONTINENTAL GLASS SYSTEMS, LLC.	
		325 WEST 74 PLACE HIALEAH, FL 33014	
		TEL (305) 231-1101 FAX (305) 231-1103	

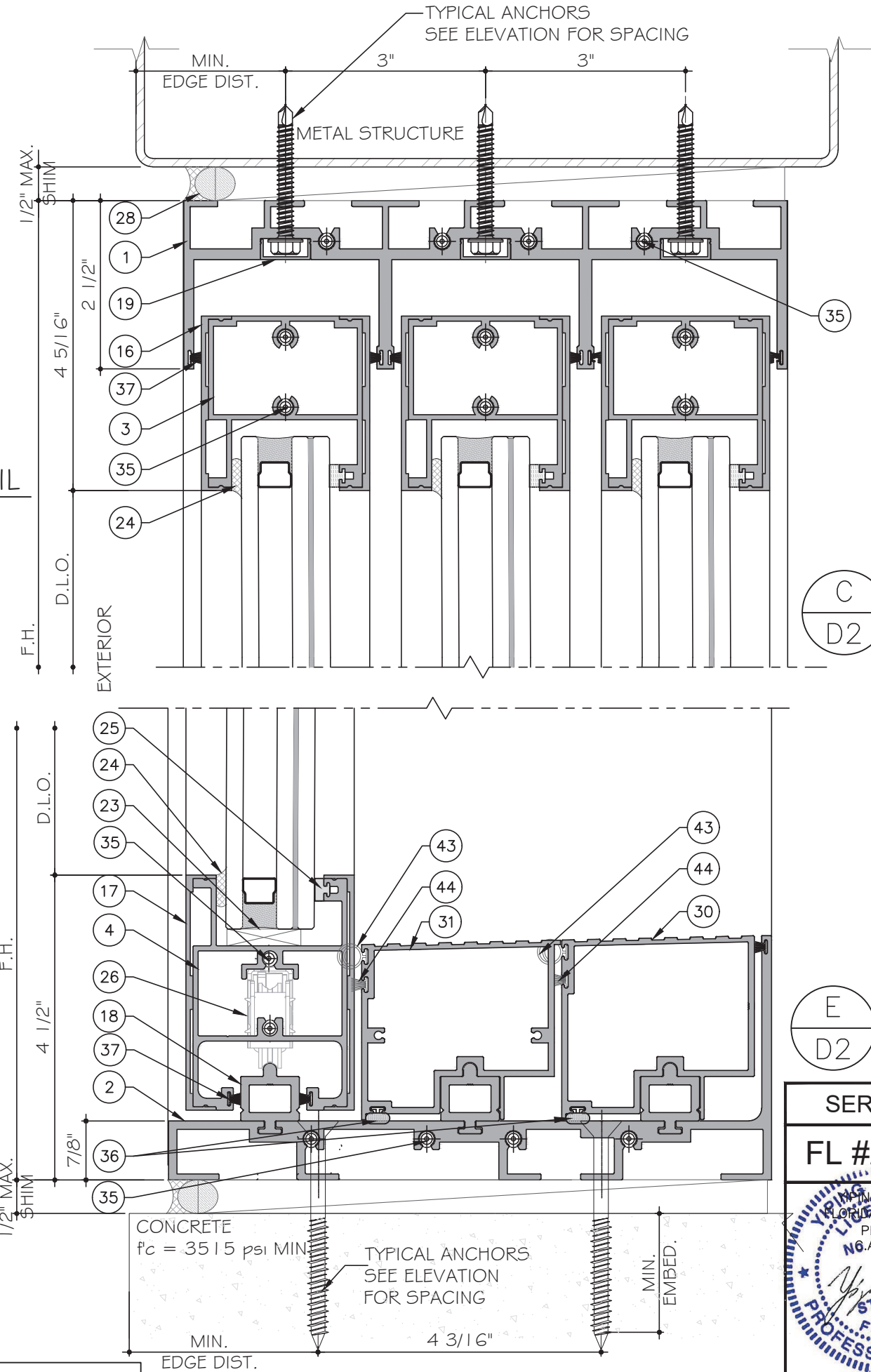
D1.1	
DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145
DRAWING NO.	
AD19-06	
10 OF 23	



D
D2

DETAIL

STANDARD SGD DETAIL

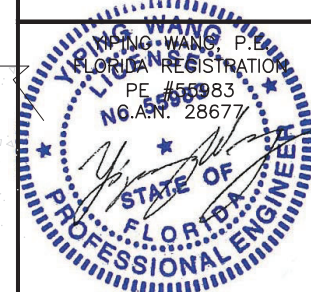


E
D2

DETAIL

SERIES 2850

FL #28876.2



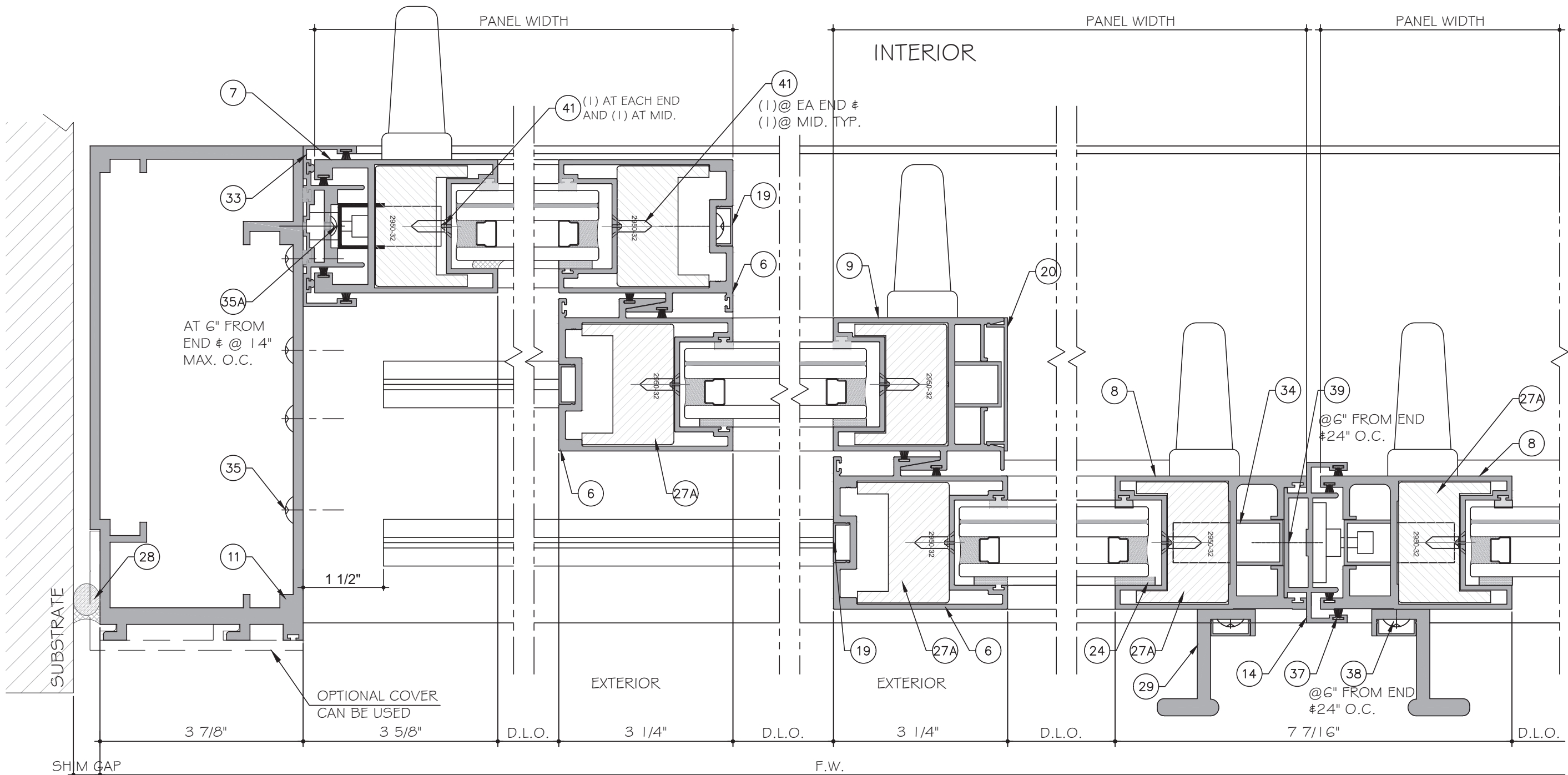
March 07th, 2024

NO.	DATE	DESCRIPTION
R2	03.06.2024	PBC 2023

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

SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI
CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

D2
DATE 03.06.2024
SCALE AS SHOWN
DRAWN James
PROJECT 18-145
DRAWING NO. AD19-06
11 OF 23



E
D3
DETAIL

F
D3
DETAIL

G
D3
DETAIL

H
D3
DETAIL

TABLE A			TABLE B		TABLE C	
FRAME HEIGHT	JAMB GAP (DOWSIL™ 795)		JAMB GAP (DOWSIL™ 790)		JAMB GAP (DOWSIL™ 983)	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
84"	9/16"	1-1/2"	1/2"	1-1/2"	5/8"	1-1/2"
96"	9/16"	1-1/2"	1/2"	1-1/2"	3/4"	1-1/2"
108"	9/16"	1-1/2"	1/2"	1-1/2"	7/8"	1-1/2"
120"	3/4"	1-1/2"	1/2"	1-1/2"	1"	1-1/2"
132"	3/4"	1-1/2"	1/2"	1-1/2"	1"	1-1/2"
144"	3/4"	1-1/2"	1/2"	1-1/2"	1 1/8"	1-1/2"
148 1/2"	3/4"	1-1/2"	1/2"	1-1/2"	1 1/8"	1-1/2"

LIFT & SLIDE DETAIL

SERIES 2850

FL #28876.2

March 07th, 2024

REVISIONS

NO.	DATE	DESCRIPTION
R2	03.06.2024	FBC 2023

MCY

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027

P: 786.360.2786
P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI

CONTINENTAL GLASS SYSTEMS, LLC.

325 WEST 74 PLACE HIALEAH, FL 33014

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

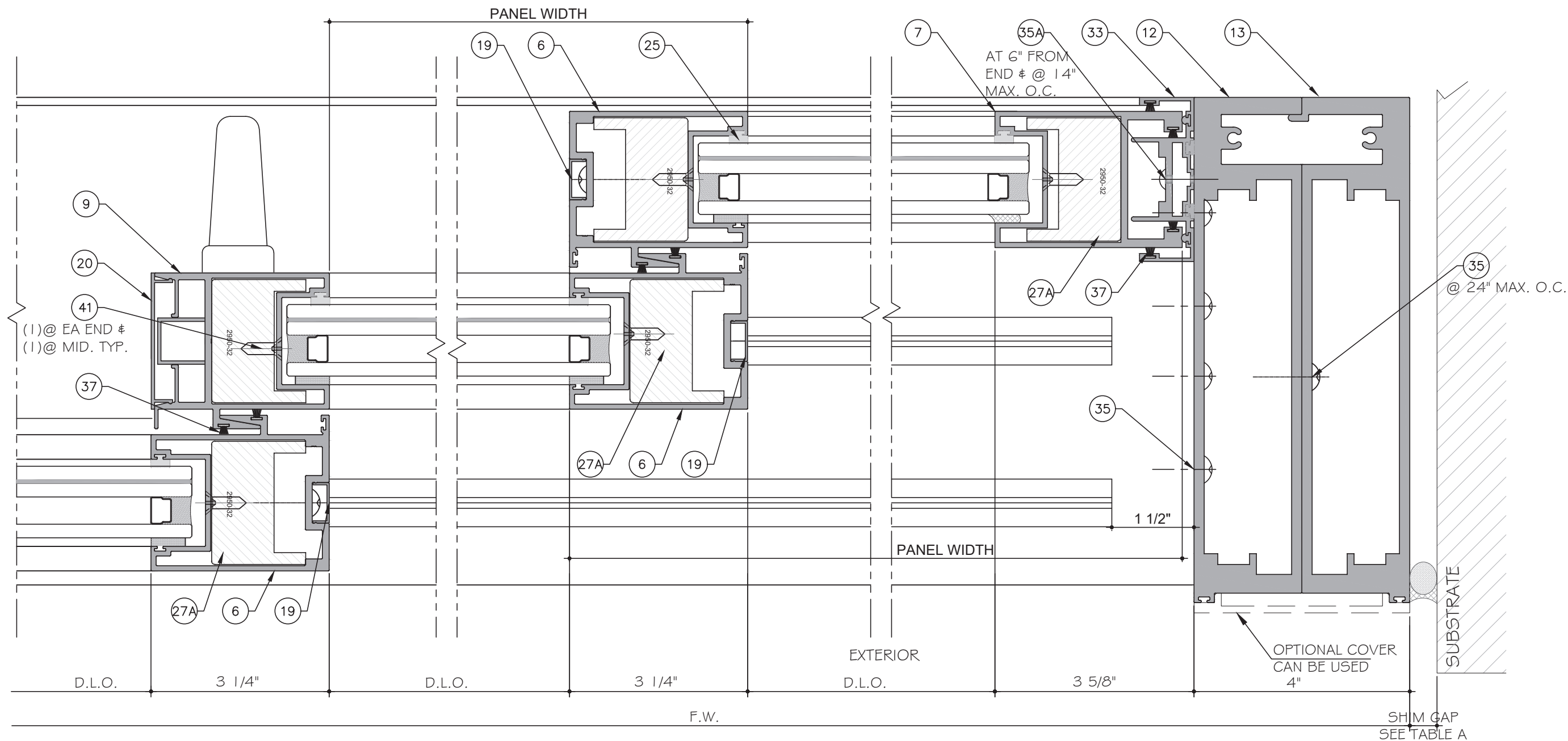
D3

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

DRAWING NO.

AD19-06

12 OF 23



I
D4
DETAIL

J
D4
DETAIL

K
D4
DETAIL

TABLE A			TABLE B		TABLE C	
FRAME HEIGHT	JAMB GAP (DOWSIL™ 795)		JAMB GAP (DOWSIL™ 790)		JAMB GAP (DOWSIL™ 983)	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
84"	9/16"	1-1/2"	1/2"	1-1/2"	5/8"	1-1/2"
96"	9/16"	1-1/2"	1/2"	1-1/2"	3/4"	1-1/2"
108"	9/16"	1-1/2"	1/2"	1-1/2"	7/8"	1-1/2"
120"	3/4"	1-1/2"	1/2"	1-1/2"	1"	1-1/2"
132"	3/4"	1-1/2"	1/2"	1-1/2"	1"	1-1/2"
144"	3/4"	1-1/2"	1/2"	1-1/2"	1 1/8"	1-1/2"
148 1/2"	3/4"	1-1/2"	1/2"	1-1/2"	1 1/8"	1-1/2"

LIFT & SLIDE DETAIL

SERIES 2850

FL #28876.2

REVISIONS

NO.	DATE	DESCRIPTION
R2	03.08.2024	FBC 2023

MCY

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027

P: 786.360.2786
P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

SERIES 2850 LIFT & SLIDING GLASS DOOR – SMI

CONTINENTAL GLASS SYSTEMS, LLC.

325 WEST 74 PLACE HIALEAH, FL 33014

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

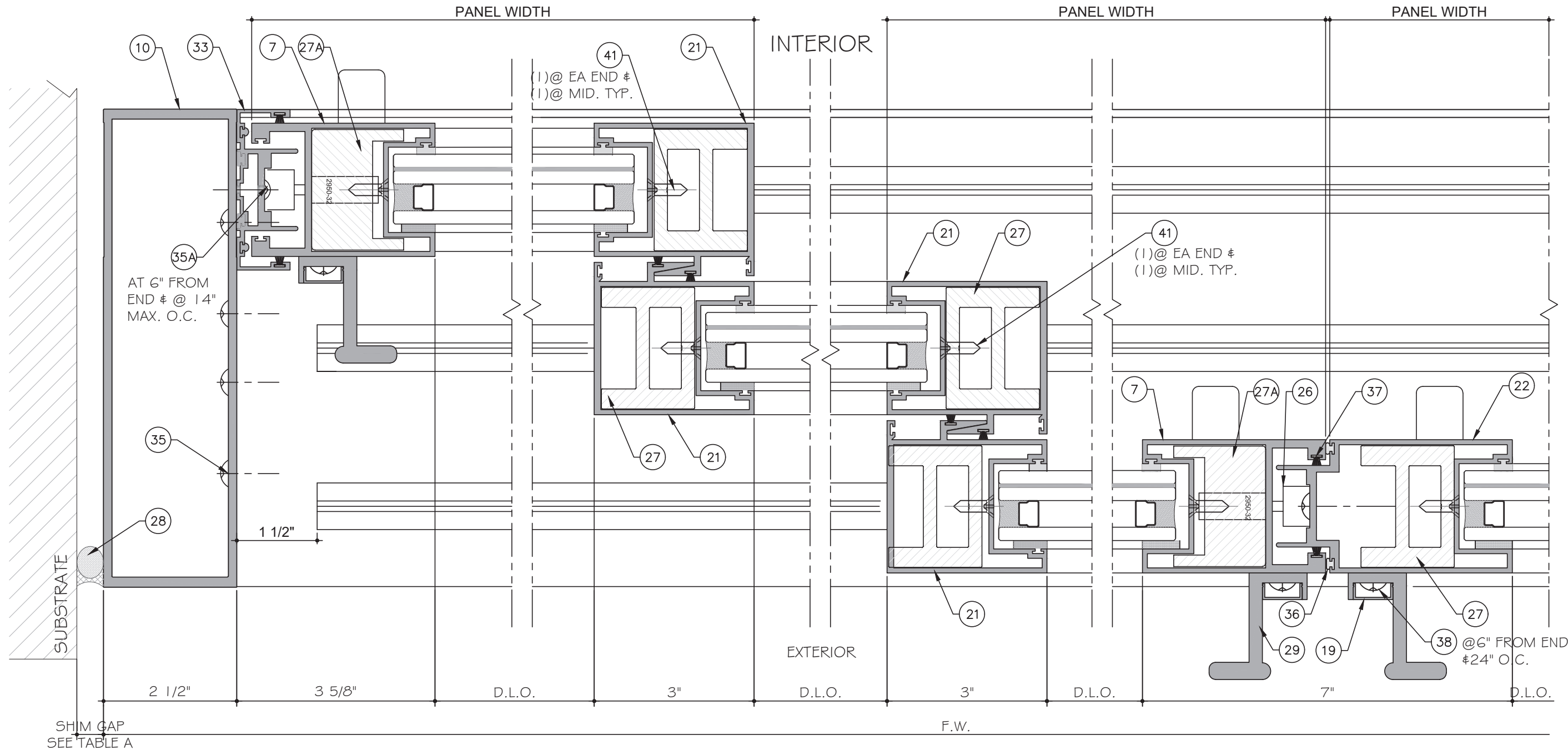
D4

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

DRAWING NO.

AD19-06

13 OF 23



L
D5
DETAIL

M
D5
DETAIL

N
D5
DETAIL

P
D5
DETAIL

TABLE A		TABLE B		TABLE C	
FRAME HEIGHT	JAMB GAP (DOWSIL™ 795)	JAMB GAP (DOWSIL™ 790)		JAMB GAP (DOWSIL™ 983)	
	MIN. MAX.	MIN.	MAX.	MIN.	MAX.
84"	9/16" 1-1/2"	1/2"	1-1/2"	5/8"	1-1/2"
96"	9/16" 1-1/2"	1/2"	1-1/2"	3/4"	1-1/2"
108"	9/16" 1-1/2"	1/2"	1-1/2"	7/8"	1-1/2"
120"	3/4" 1-1/2"	1/2"	1-1/2"	1"	1-1/2"
132"	3/4" 1-1/2"	1/2"	1-1/2"	1"	1-1/2"
144"	3/4" 1-1/2"	1/2"	1-1/2"	1 1/8"	1-1/2"
148 1/2"	3/4" 1-1/2"	1/2"	1-1/2"	1 1/8"	1-1/2"

STANDARD.SGD DETAIL

SERIES 2850

FL #28876.2

YIPING WANG, P.E.
FLORIDA REGISTRATION NO. 155983
No. 28677

March 07th, 2024

REVISIONS	NO.	DATE	DESCRIPTION
	R2	03.06.2024	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

M C Y

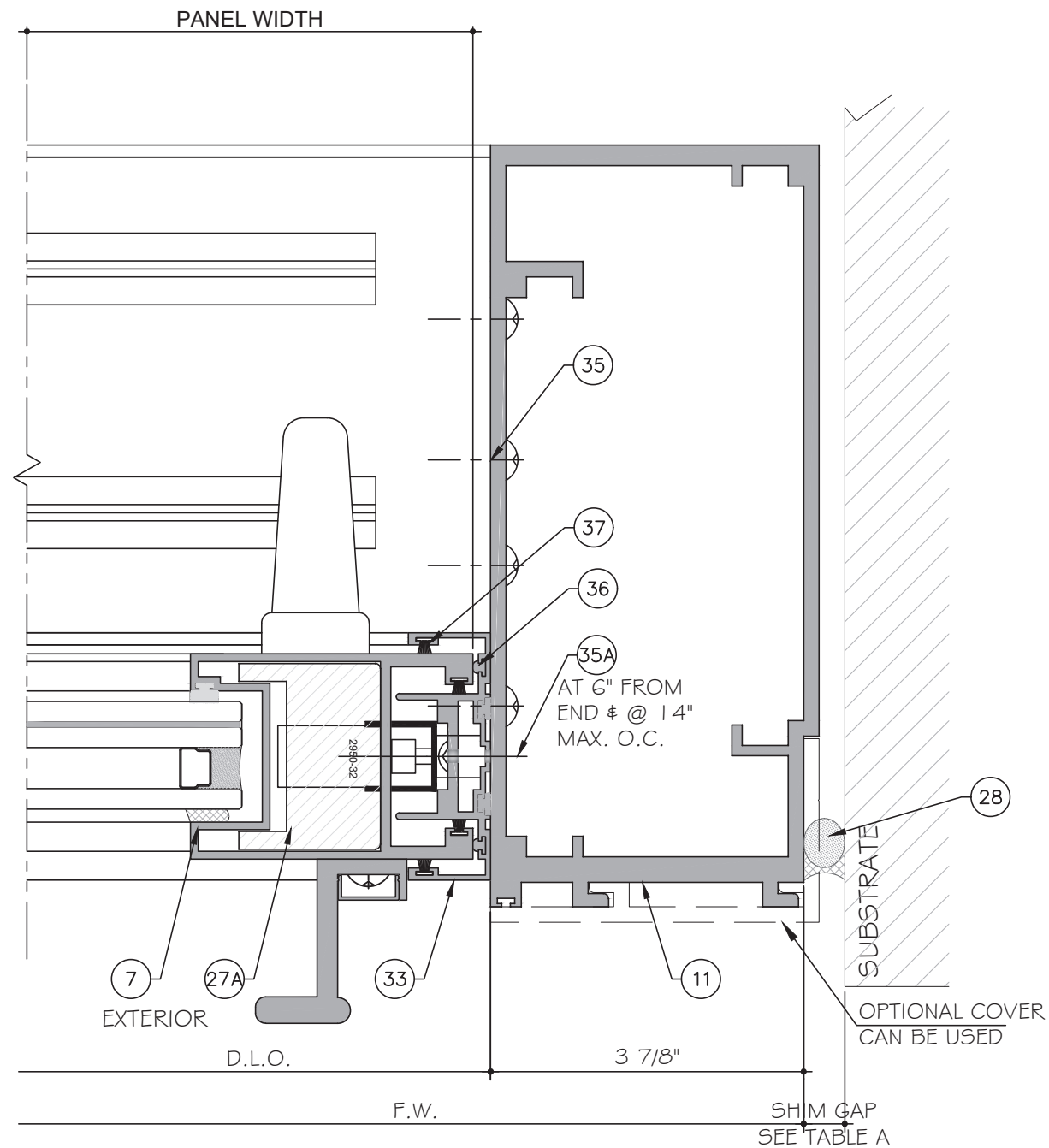
12781 MIRAMAR PKWY. STE. 301 P: 786.360.2786
MIRAMAR, FL 33027 P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

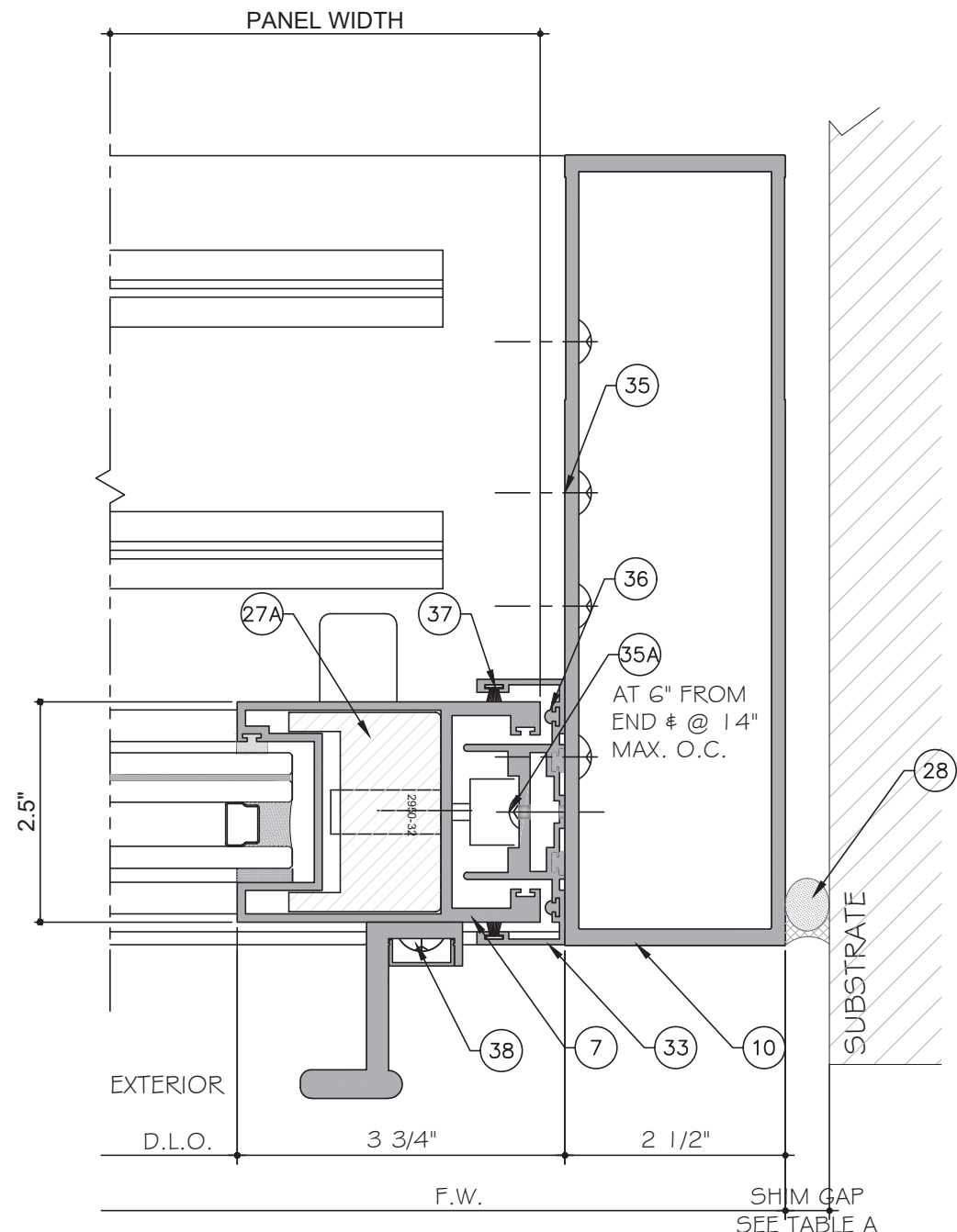
SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

D5	
DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145
DRAWING NO.	AD19-06
14 OF 23	



U
D7
DETAIL



V
D7
DETAIL

TABLE A			TABLE B		TABLE C	
FRAME HEIGHT	JAMB GAP (DOWSIL™ 795)		JAMB GAP (DOWSIL™ 790)		JAMB GAP (DOWSIL™ 983)	
	MIN.	MAX.	MIN.	MAX.	MIN.	MAX.
84"	9/16"	1-1/2"	1/2"	1-1/2"	5/8"	1-1/2"
96"	9/16"	1-1/2"	1/2"	1-1/2"	3/4"	1-1/2"
108"	9/16"	1-1/2"	1/2"	1-1/2"	7/8"	1-1/2"
120"	3/4"	1-1/2"	1/2"	1-1/2"	1"	1-1/2"
132"	3/4"	1-1/2"	1/2"	1-1/2"	1"	1-1/2"
144"	3/4"	1-1/2"	1/2"	1-1/2"	1 1/8"	1-1/2"
148 1/2"	3/4"	1-1/2"	1/2"	1-1/2"	1 1/8"	1-1/2"

SERIES 2850

FL #28876.2

YIPING WANG, P.E.
FLORIDA REGISTRATION NO. 455983
No. 28677

March 07th, 2024

NO.	DATE	DESCRIPTION
R2	03.08.2024	PBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027

P: 786.360.2786
P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

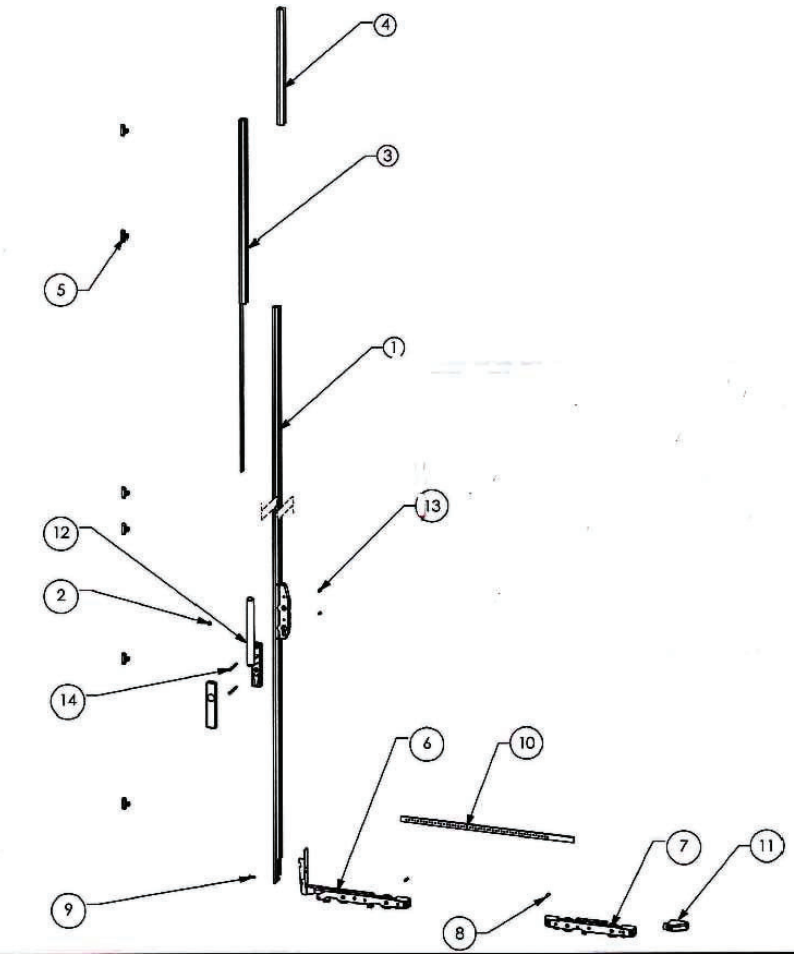
SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

D7	
DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

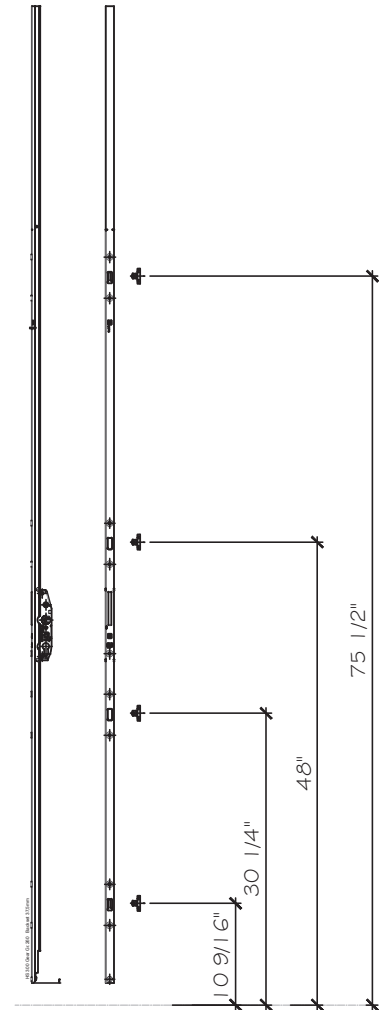
DRAWING NO.
AD19-06

HARDWARE ASSEMBLY FOR LIFT AND SLIDE DOOR

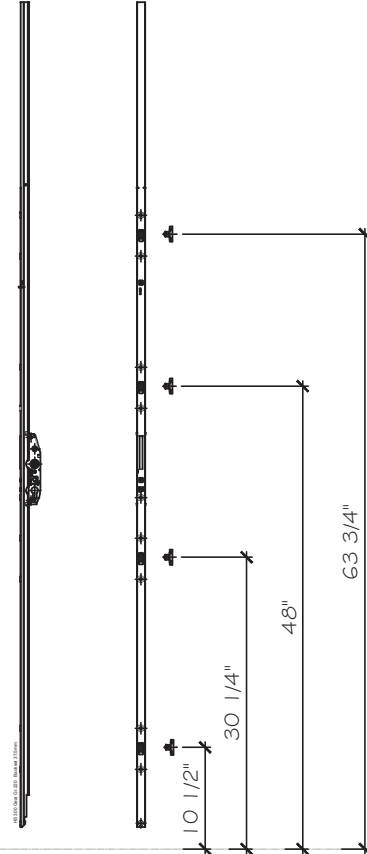


ITEM	PART NUMBER	DESCRIPTION	QTY	MARK
1	PGKB0430-524010	GETR.HS300-PZ-R GR.260 EV1 ESL	1	INTERLOCK
2	819708	CLOSING CAP RAL7001 PC1	1	INTERLOCK
3	PMGB0010-224011	ADDITIONAL LOCKING HS EV1 E-LOCK B1	1	INTERLOCK
4	800102	COVER RAIL F01 PC1	1	INTERLOCK
5	PRTB7050-200010	TOP LOCKING PART A0013 ESL	6	INTERLOCK
6	PEUB0030-200010	FRONT BOGIE WHEELS HS 300 E-LOCK PC1	1	INTERLOCK
7	PLWB0040-200010	REAR BOGIE WHEELS HS 300 E-LOCK PC1	1	INTERLOCK
8	823132	DOWEL PIN DIN 1470 6X16-4305	2	INTERLOCK
9	800850	COUNTERSUNK CSREW PZD M5X13-A2	1	INTERLOCK
10	891766	CONNECTING ROD SZ 150 E-LOCK PC1	1	INTERLOCK
11	821237	STOP HS 9003 B1	1	INTERLOCK
12	PMHB0030-503011	HANDLE SI-LI.HS300 A0236 RAL9010 C1	1	INTERLOCK
13	800287	SLEEVE NUT PC1	2	INTERLOCK
14	900047-001	COUNT.SCREW K/PZD ISO7046 M5X63-A2	2	INTERLOCK

12'-6" DOOR HEIGHT

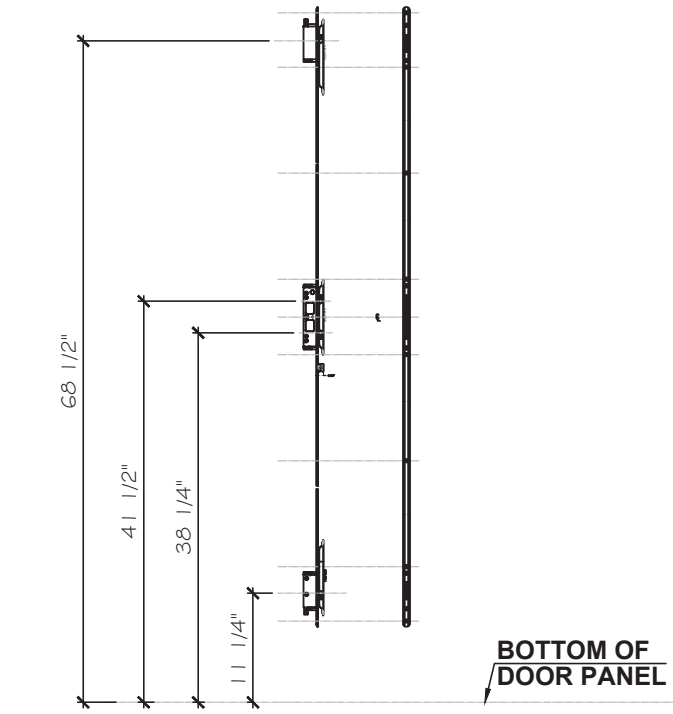
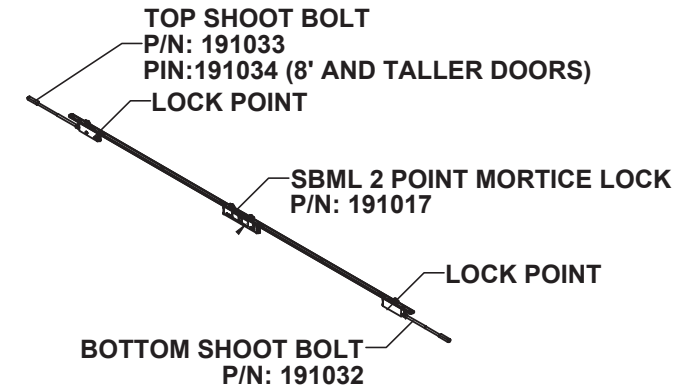


10'-10" DOOR HEIGHT



LOCK POINTS LAYOUT FOR 10'-0" DOOR HEIGHT AND 12'-6" DOOR HEIGHT.
(LIFT & SLIDE DOOR)

LOCK OPTIONS
FOUR POINT MORTISE LOCKS,
PRODUCED BY INTERLOCK.



LOCK POINTS LAYOUT.

SERIES 2850

FL #28876.1

YONG WANG, P.E.
FLORIDA REGISTRATION
PE #55983
CA. 65983
March 07th, 2024

REVISIONS

NO	DATE	DESCRIPTION
03	03.05.2024	FOR 2023

MCY

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027

P: 305.588.5224
P: 305.271.0117

www.MCYEngineering.com

SERIES 2850 LIFT&SLIDING GLASS DOOR-LMI

CONTINENTAL GLASS SYSTEMS, LLC.

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

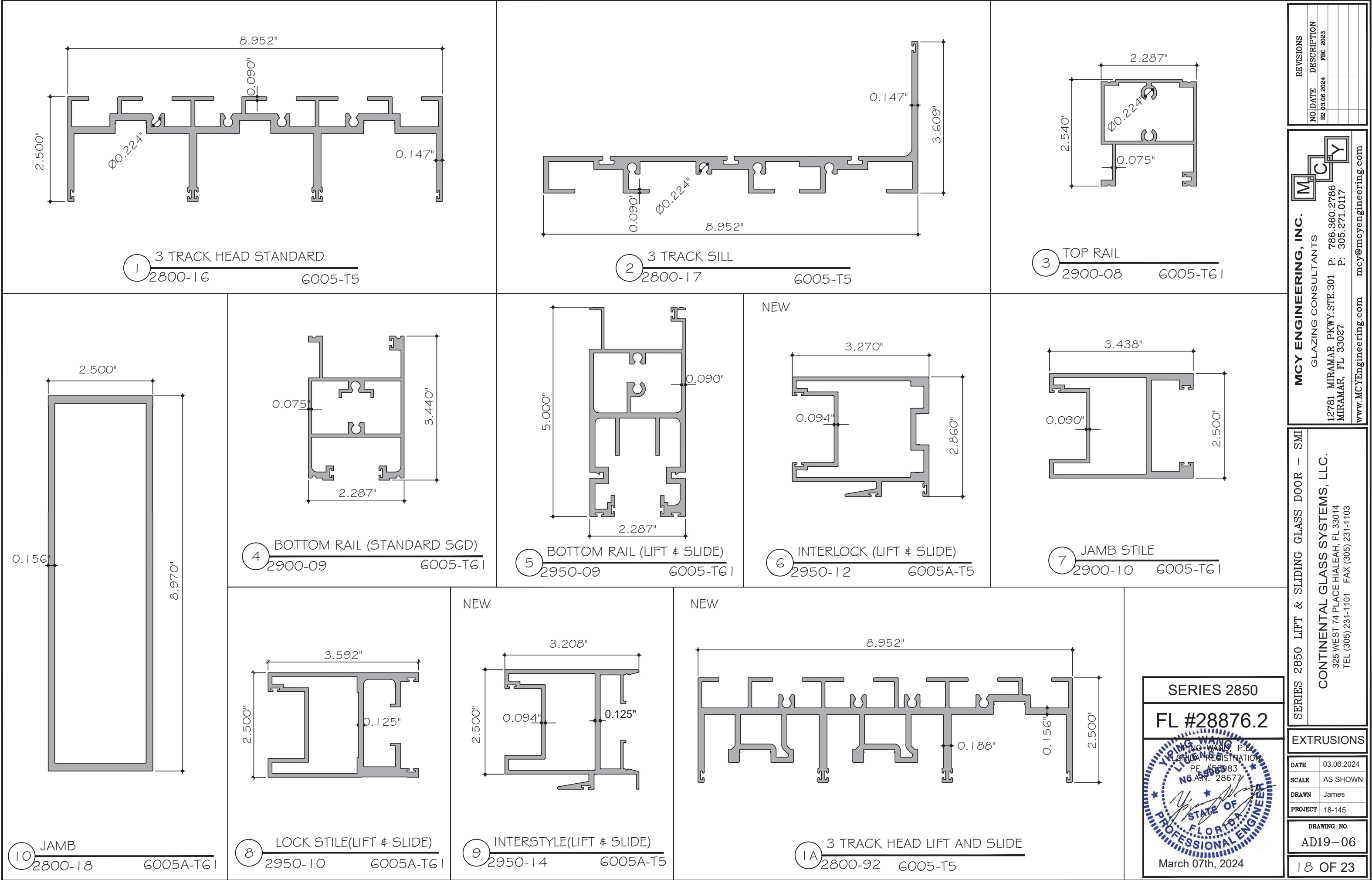
HARDWARE

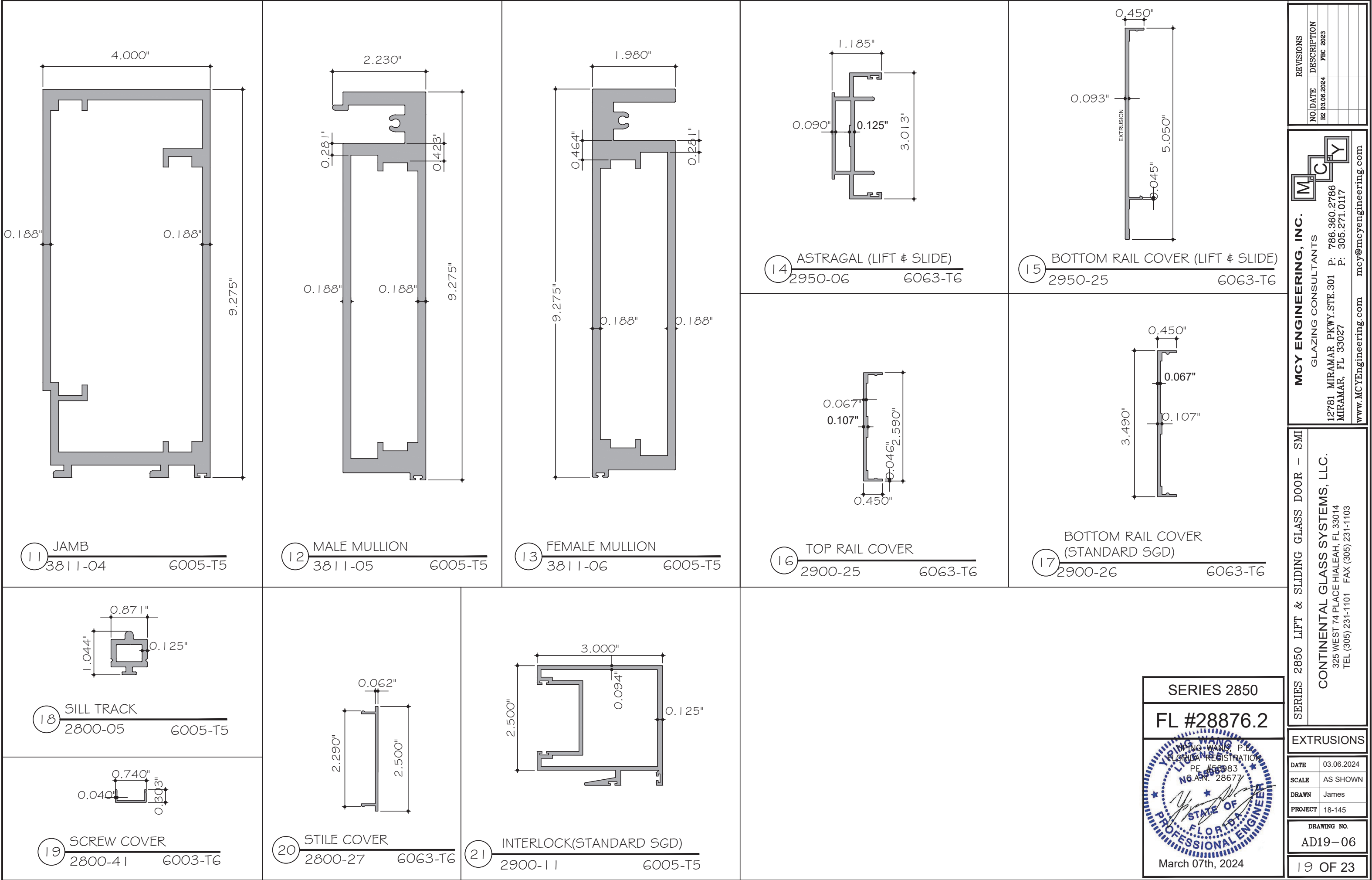
DATE	03.05.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

DRAWING NO.

AD19-05

17 OF 22





REVISIONS	
NO.	DATE
R2	03.08.2024
DESCRIPTION	
FBC 2023	

MCY

CY

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027

P: 786.360.2786
P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

SERIES 2850 LIFT & SLIDING GLASS DOOR – SMI

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

EXTRUSIONS	
DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145
DRAWING NO.	
AD19-06	
19 OF 23	

SERIES 2850

FL #28876.2

YIPING WANG

YIPING WANG, P.E.

FLORIDA REGISTRATION

PE #55983

NO. 28677

March 07th, 2024

22 LOCK STILE (STANDARD SGD)
2900-14 6005-T6 I

27 REINFORCING
2800-23 6005-T5

29 HANDLE
2800-20 6005-T5

30 THRESHOLD 2 & 3 TRACK
2800-24 6063-T6

31 THRESHOLD 3 TRACK
2800-28 6063-T6

32 COVER HEAD
2800-40 6063-T6

33 SGD ASTRAGAL
3070-03 6005-T5

5A FIX BOTTOM RAIL (LIFT & SLIDE)
2950-26 6005-T6 I

5B BOTTOM MOVING HORIZ.
2950-33 6005A-T6 I

3A TOP RAIL (LIFT & SLIDE)
2950-27 6005-T6 I

NEW

3B FIX TOP RAIL (LIFT & SLIDE)
2950-28 6005-T6 I

NEW

27A REINFORCING
2950-32 6005-T5

NEW

15A TOP RAIL COVER (LIFT & SLIDE)
2950-29 6063-T6

NEW

18A SILL TRACK
2950-31 6005-T5

NEW

18B SILL TRACK
2950-30 6005-T5

SERIES 2850

FL #28876.2

YIPING WANG, P.E.

FLORIDA REGISTRATION NO. 65983

PE 65983

NO. 28677

March 07th, 2024

EXTRUSIONS

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

DRAWING NO.
AD19-06

20 OF 23

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

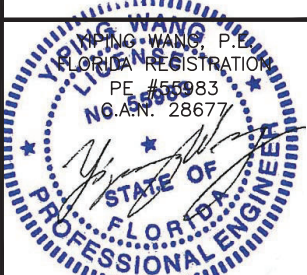
REVISIONS
NO. DATE DESCRIPTION
R2 03.06.2024 FBC 2023

SERIES 2850 LIFT & SLIDING GLASS DOOR - SMI
CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

BILL OF MATERIALS				
ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	2800-16	3 TRACK HEAD	ALUM. 6005-T5	-
1A	2800-92	3 TRACK HEAD (SGD + LIFT & SLIDE)	ALUM. 6005-T5	
2	2800-17	3 TRACK SILL (SGD + LIFT & SLIDE)	ALUM. 6005-T5	-
3	2900-08	TOP RAIL	ALUM. 6005-T6 I	-
3A	2950-27	TOP RAIL (SGD + LIFT & SLIDE)	ALUM. 6005-T6 I	-
3B	2950-28	FIX TOP RAIL (SGD + LIFT & SLIDE)	ALUM. 6005-T6 I	-
4	2900-09	BOTTOM RAIL (STANDARD SGD)	ALUM. 6005-T6 I	-
5	2950-09	BOTTOM RAIL (LIFT & SLIDE)	ALUM. 6005-T6 I	-
5A	2950-26	FIX BOTTOM RAIL (LIFT & SLIDE)	ALUM. 6005-T6 I	-
5B	2950-33	BOTTOM MOVING PANEL	ALUM. 6005-T6 I	-
6	2950-12	INTERLOCK (LIFT & SLIDE)	ALUM. 6005A-T5	-
7	2900-10	JAMB STILE	ALUM. 6005-T6 I	-
8	2950-10	LOCK STILE (LIFT & SLIDE)	ALUM. 6005A-T6 I	-
9	2950-14	INTERSTYLE (LIFT & SLIDE)	ALUM. 6005A-T5	-
10	2800-18	JAMB	ALUM. 6005A-T6 I	-
11	3811-04	JAMB	ALUM. 6005-T5	-
12	3811-05	MALE MULLION	ALUM. 6005-T5	-
13	3811-06	FEMALE MULLION	ALUM. 6005-T5	-
14	2950-06	ASTRAGAL (LIFT & SLIDE)	ALUM. 6063-T6	-
15	2950-25	BOTTOM RAIL COVER (LIFT & SLIDE)	ALUM. 6063-T6	-
15A	2950-29	TOP RAIL COVER (LIFT & SLIDE)	ALUM. 6063-T6	-
16	2900-25	TOP RAIL COVER	ALUM. 6063-T6	-
17	2900-26	BOTTOM RAIL COVER (STANDARD SGD)	ALUM. 6063-T6	-
18	2800-05	SILL TRACK	ALUM. 6005-T5	-
18A	2950-31	SILL TRACK	ALUM. 6005-T5	-
18B	2950-30	SILL TRACK	ALUM. 6005-T5	-
19	2800-41	SCREW COVER	ALUM. 6063-T6	-
20	2800-27	STILE COVER	ALUM. 6063-T6	-
21	2900-11	INTERLOCK (STANDARD SGD)	ALUM. 6005-T6 I	-
22	2900-14	LOCK STILE (STANDARD SGD)	ALUM. 6005-T6 I	-
23	-	1/4" X 3/4" X 4" SILICONE SETTING BLOCKS	SILICONE	DUROMETER 70-90 SHORE A OR E.Q.
24	-	DOWSIL™ 983 OR DOWSIL 795 OR SIKASIL 520 ON THE EXTERIOR PORTION OF THE GLAZING	SILICONE	-
25	-	GLASS SPACER	PLASTIC	-
26	P/N:191017	2 POINT LOCK.	STAINLESS STEEL 304	-
	P/N:191033 /191034	TOP SHOOT BOLT. SEE SHEET 16 FOR LOCK POINT LAYOUT	STAINLESS STEEL 304	-
	57000DPA	DOOR WHEELS	STAINLESS STEEL G440 & PLASTIC	ANTHONY INNOVATIONS
	P/N:191032	BOTTOM SHOOT BOLT	STAINLESS STEEL 304	-
26 (OPTION)	P501-1020	2 POINT LOCK.	STAINLESS STEEL 304	-
	P501-1015	LOCK KEEPER.	STAINLESS STEEL 304	-
	57000DPA	DOOR WHEELS	STAINLESS STEEL G440 & PLASTIC	ANTHONY INNOVATIONS

SERIES 2850

FL #28876.2



March 07th, 2024

REVISIONS

NO.	DATE	DESCRIPTION
R2	03.06.2024	PBC 2023

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY. STE. 301
MIRAMAR, FL 33027

P: 786.360.2786
P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

SERIES 2850 LIFT & SLIDING GLASS DOOR – SMI

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

BOM

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

DRAWING NO.

AD19–06

21 OF 23

BILL OF MATERIALS				
ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
27	2800-23	REINFORCING, 60" LG.	ALUM. 6005-T5	-
27A	2950-32	REINFORCING, 60" LG.	ALUM. 6005-T5	-
28	-	DOWSIL™ 790 CONT. PERIMETER SEALANT AND BACKER ROD	SILICONE	DOWSIL
29	2800-20	HANDLE	ALUM. 6005-T5	-
30	2800-24	THRESHOLD 2 # 3 TRACK	ALUM. 6063-T6	-
31	2800-28	THRESHOLD 3 TRACK	ALUM. 6063-T6	-
32	2800-40	THRESHOLD 3 TRACK	ALUM. 6063-T6	-
33	3070-03	SGD ASTRAGAL	ALUM. 6005-T5	-
34	-	HARDWARE FOR LIFT AND SLIDE DOOR, SEE SHEET 17 FOR DETAILS.	-	INTERLOCK
35	-	#14 PH. S.S. SMS. 1" LONG	S/S	-
35A	-	#12 SS SMS	S/S	-
36	E-202	0.187" T-SLOT X 0.290" HIGH BULB GASKET	-	ULTRA FAB
37	-	FIN-SEAL 0.187" X 0.250" HT	-	ULTRA FAB
38	-	#12 S.S. SMS.@ 6" FROM END#24" O.C.	STAINLESS STEEL	-
39	-	#12 FH. S.S. SMS. @ 6" FROM END#24" O.C.	S/S	-
40	-	ALUMINUM GLASS SPACER	ALUMINUM	-
41	-	#12 FH. S.S. SMS. 3/4" LONG.	S/S	-
42	E-206	0.187" T-SLOT X 0.350" HIGH BULB GASKET	-	-
43	E-511	BULB GASKET	-	-
44	W23371NK	FIN SEAL .187" X .370"	-	-

SERIES 2850

FL #28876.2

YIPING WANG, P.E.

FLORIDA REGISTRATION

PE #65983

C.A.N. 28677

March 07th, 2024

REVISIONS

NO.	DATE	DESCRIPTION
R2	03.06.2024	PBC 2023

MCY

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY,STE.301
MIRAMAR, FL 33027

P: 786.360.2786
P: 305.271.0117

www.MCYEngineering.com
mcy@mcyengineering.com

SERIES 2850 LIFT & SLIDING GLASS DOOR – SMI

CONTINENTAL GLASS SYSTEMS, LLC.
325 WEST 74 PLACE HIALEAH, FL 33014
TEL (305) 231-1101 FAX (305) 231-1103

BOM

DATE	03.06.2024
SCALE	AS SHOWN
DRAWN	James
PROJECT	18-145

DRAWING NO.
AD19–06

22 OF 23

