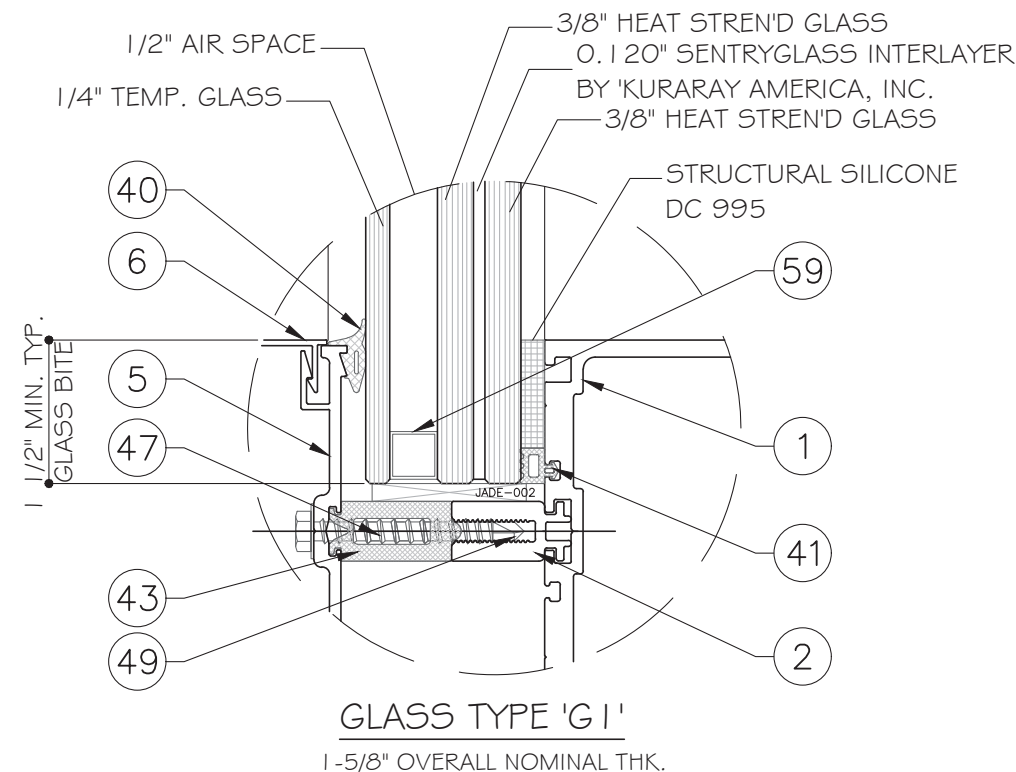


ALUMINUM CURTAIN WALL SERIES CW1100
LARGE & SMALL MISSILE IMPACT (L.M.I. & S.M.I.)



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

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 7TH EDITION FBC (2020) / 8TH EDITION FBC (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR LARGE & SMALL MISSILE IMPACT. IMPACT SHUTTERS ARE NOT REQUIRED.
- THESE WINDOWS ARE APPROVED FOR AIR AND WATER INFILTRATION.
- ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
- ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.
- MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE 7TH EDITION FBC (2020) / 8TH EDITION FBC (2023) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY N.R. ARCHITECTURAL PRODUCTS, INC. TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.
- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

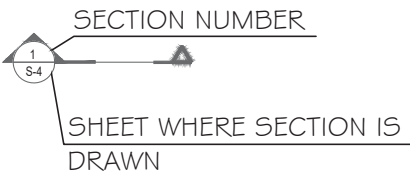
- ULTIMATE LOAD OBTAINED FROM ASCE 7-16 / ASCE 7-22 , MULTIPLY BY 0.6 SHALL BE LESS THAN OR EQUAL TO MAX. DESIGN LOAD IN THIS DOCUMENT. THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS.

-SEALANTS:

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

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



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

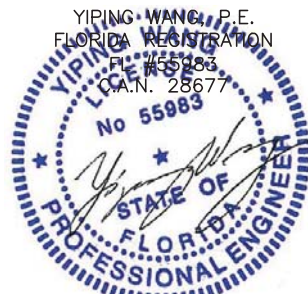
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

COVER

DRAWN: James	SHEET No:
DATE: 08/11/23	1 OF 40
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

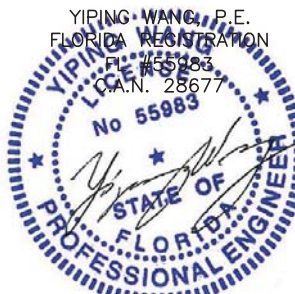
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

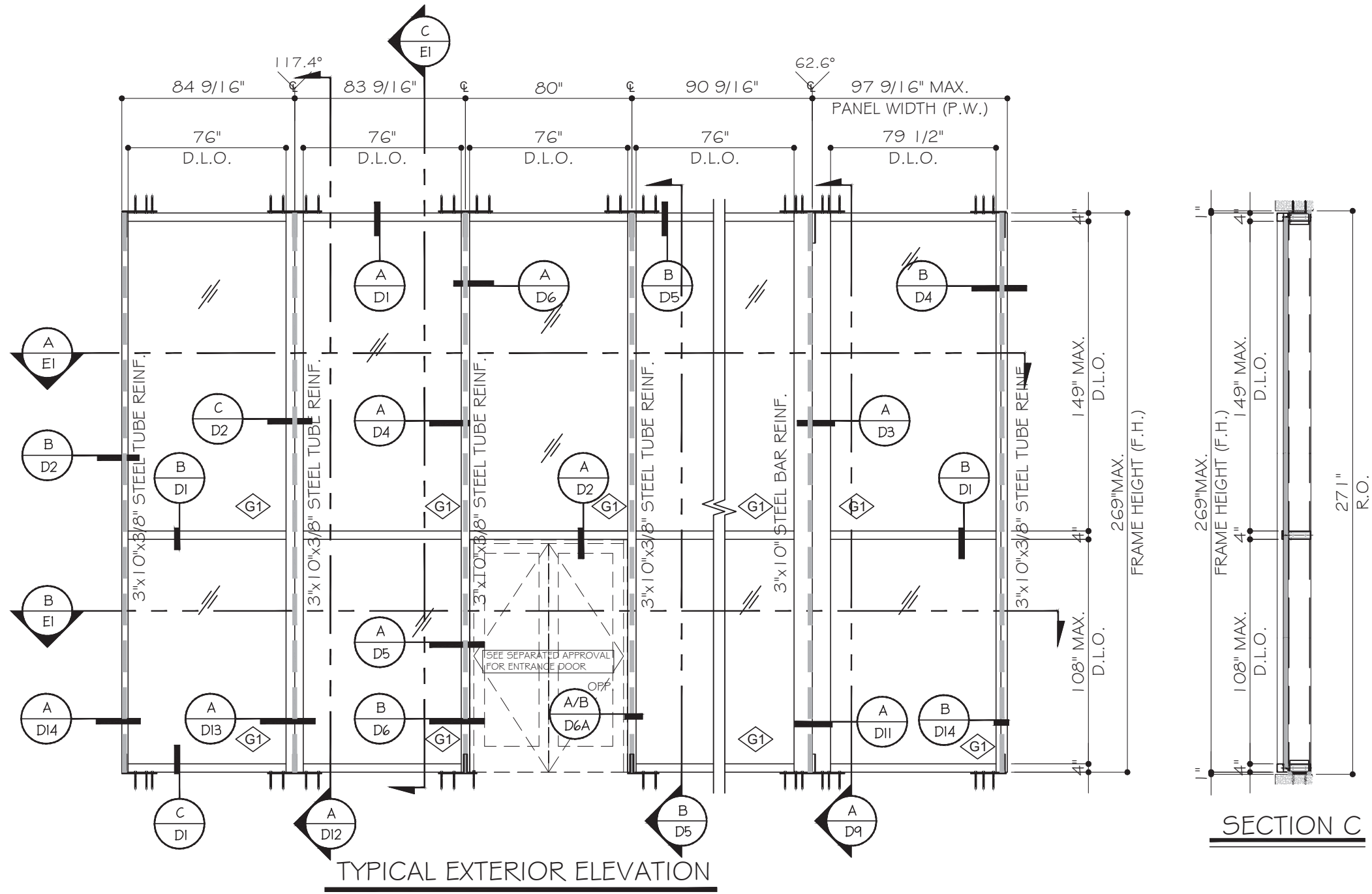
FLORIDA APPROVAL:

FL #20765

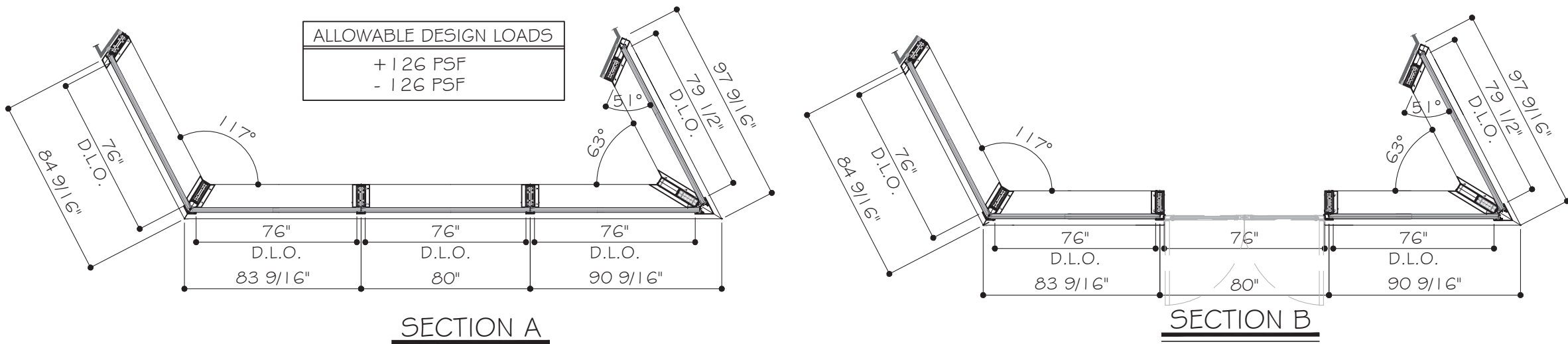
SHEET TITLE:

E1

DRAWN: James	SHEET No:
DATE: 08/11/23	2 OF 40
DWG: AD16-21	

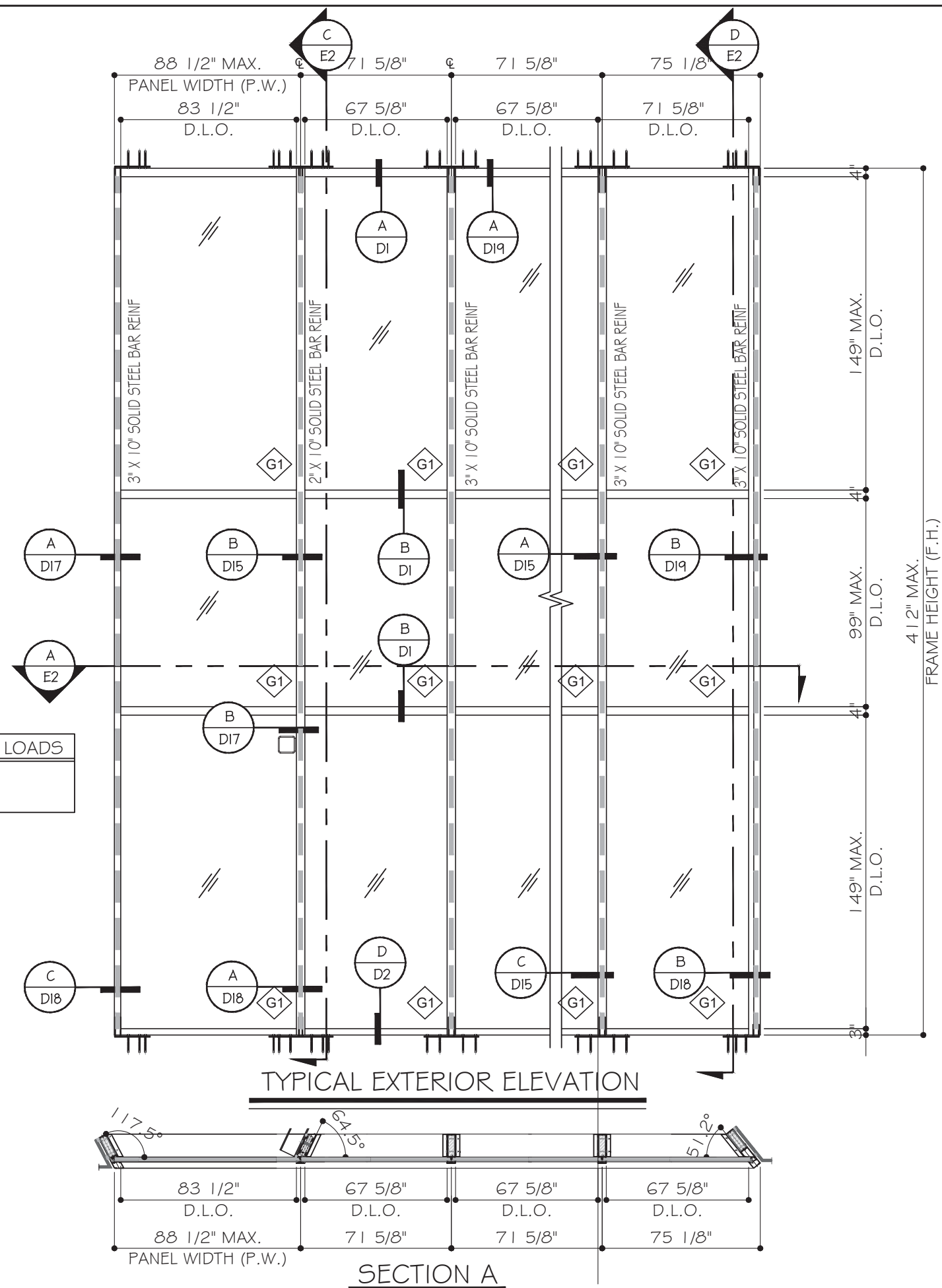


TYPICAL EXTERIOR ELEVATION



SECTION A

SECTION B



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

E2

DRAWN: James	SHEET No:
DATE: 08/11/23	3 OF 40
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

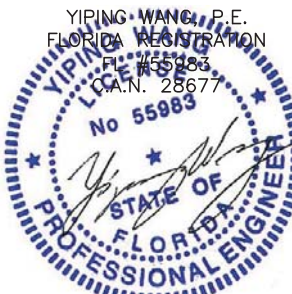
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

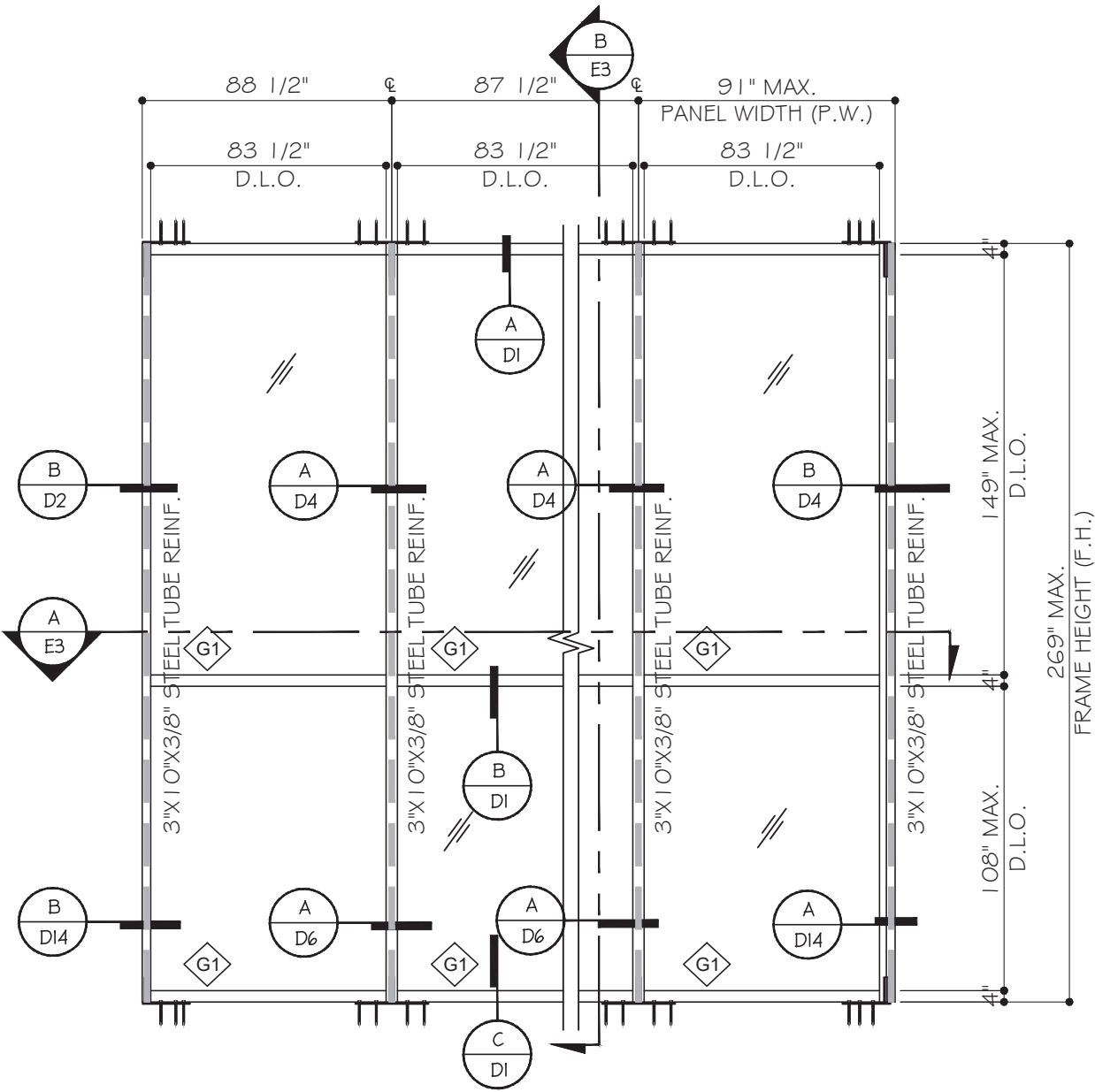
FLORIDA APPROVAL:

FL #20765

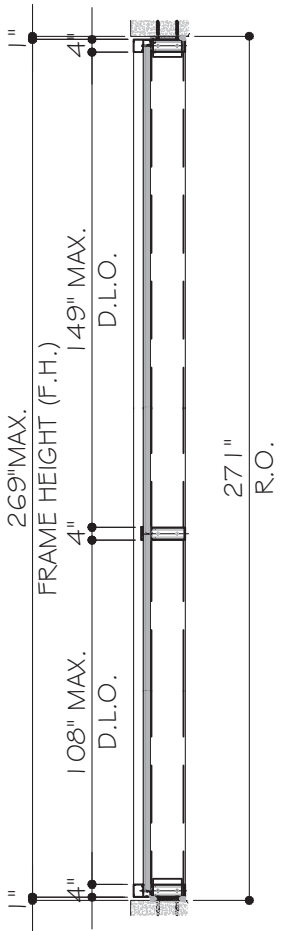
SHEET TITLE:

E3

DRAWN: James	SHEET No: 4 OF 40
DATE: 08/11/23	
DWG: AD16-21	



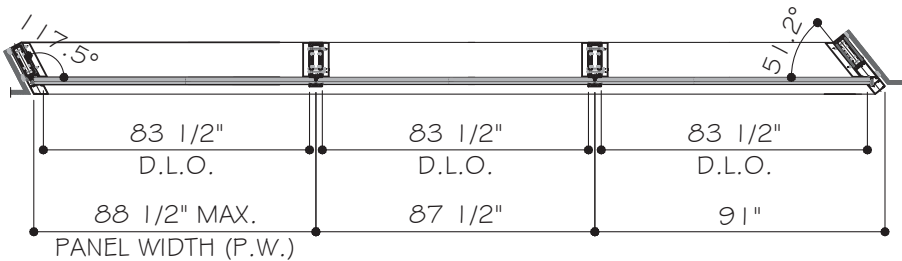
TYPICAL EXTERIOR ELEVATION



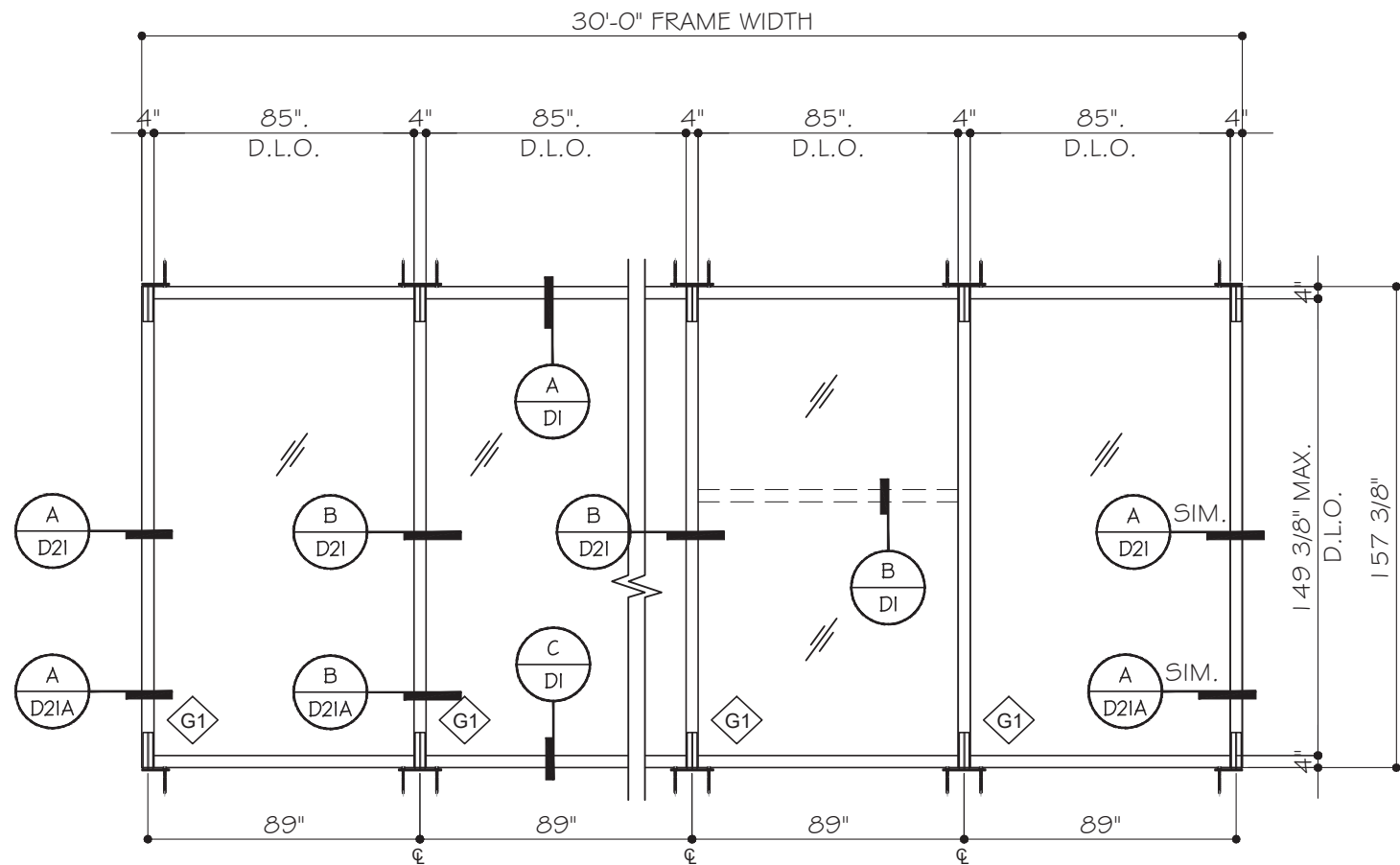
SECTION B

ALLOWABLE DESIGN LOADS

+93 PSF
- 93 PSF



SECTION A



TYPICAL EXTERIOR ELEVATION
FOR UNREINF. MULLION
ALLOWABLE DESIGN LOAD SEE CHART

MULLION LOAD CAPACITY - PSF
SINGLE SPANS WITHOUT REINF.

MULLION DIMS.		DESIGN LOAD	
HEIGHT	SPACING	(+) PSF	(-) PSF
144	60	126	126
	66	126	126
	72	126	126
	78	126	126
	84	126	126
156	60	126	126
	66	126	126
	72	126	126
	78	126	126
	84	126	126
168	60	126	126
	66	126	126
	72	126	126
	78	126	126
	84	126	126
180	60	126	126
	66	126	126
	72	126	126
	78	126	126
	84	126	126
192	60	126	126
	66	120	120
	72	117	117
	78	107	107
	84	100	100



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



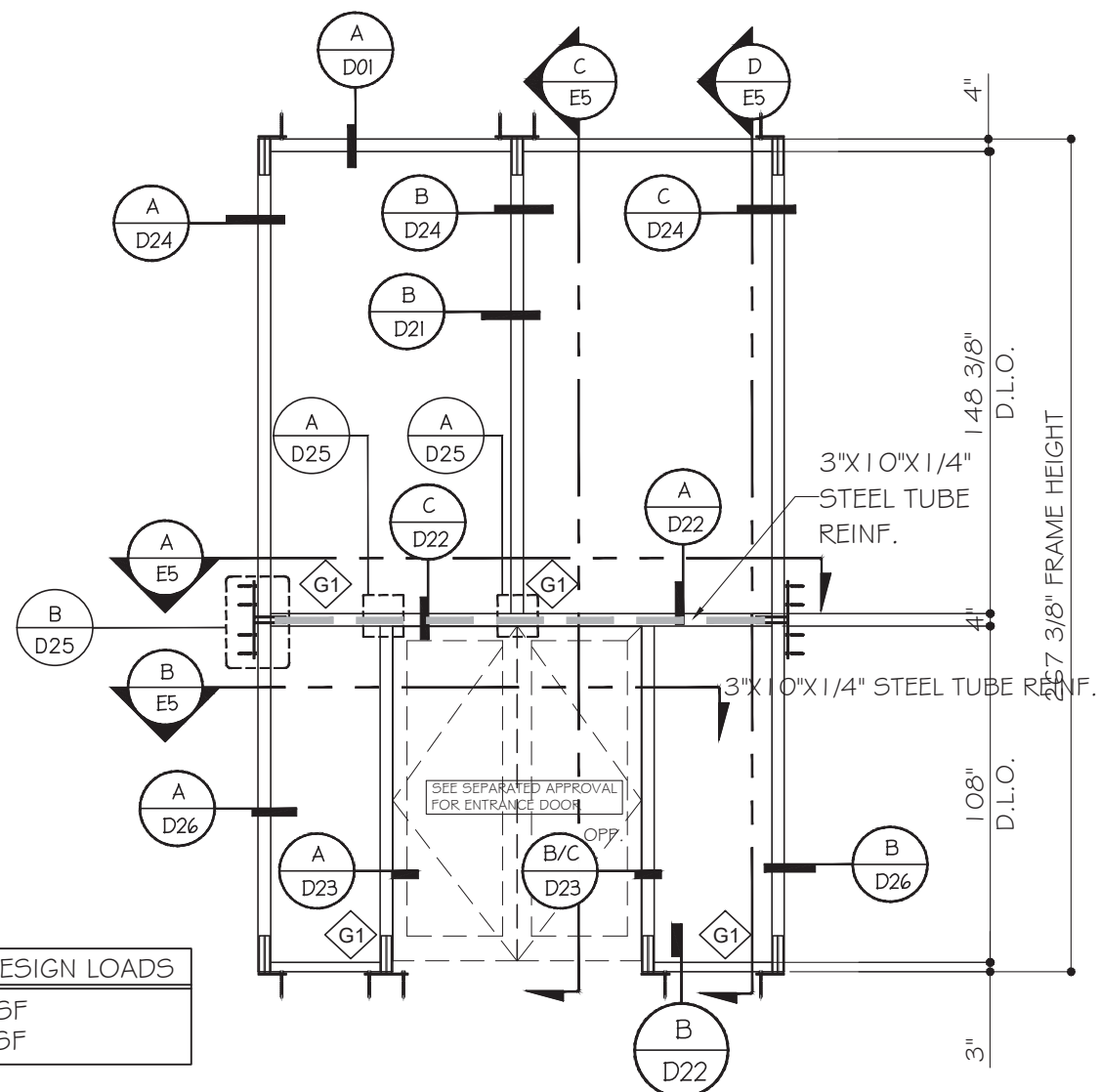
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

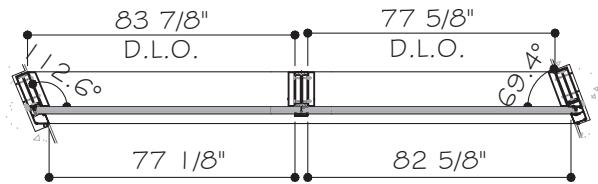
E4

DRAWN: James	SHEET No: 5 OF 40
DATE: 08/11/23	
DWG: AD16-21	

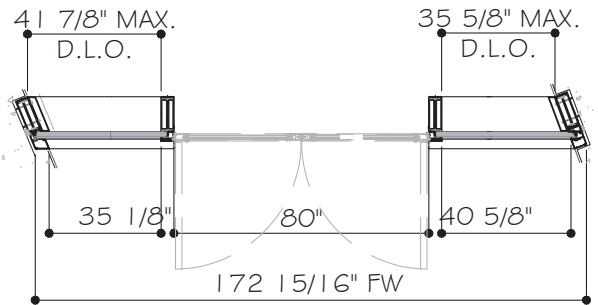


ALLOWABLE DESIGN LOADS	
+72 PSF	
-72 PSF	

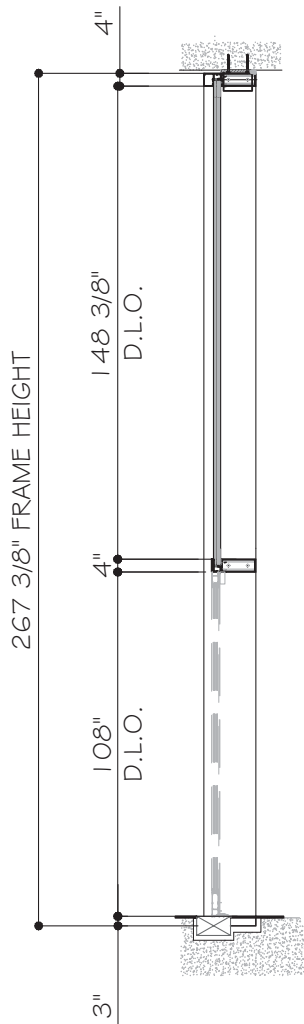
TYPICAL EXTERIOR ELEVATION



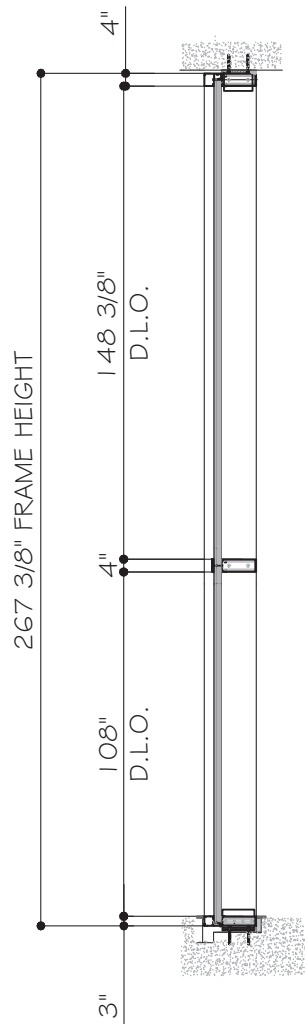
SECTION A



SECTION B



SECTION C



SECTION D



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

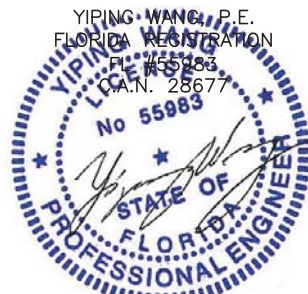
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

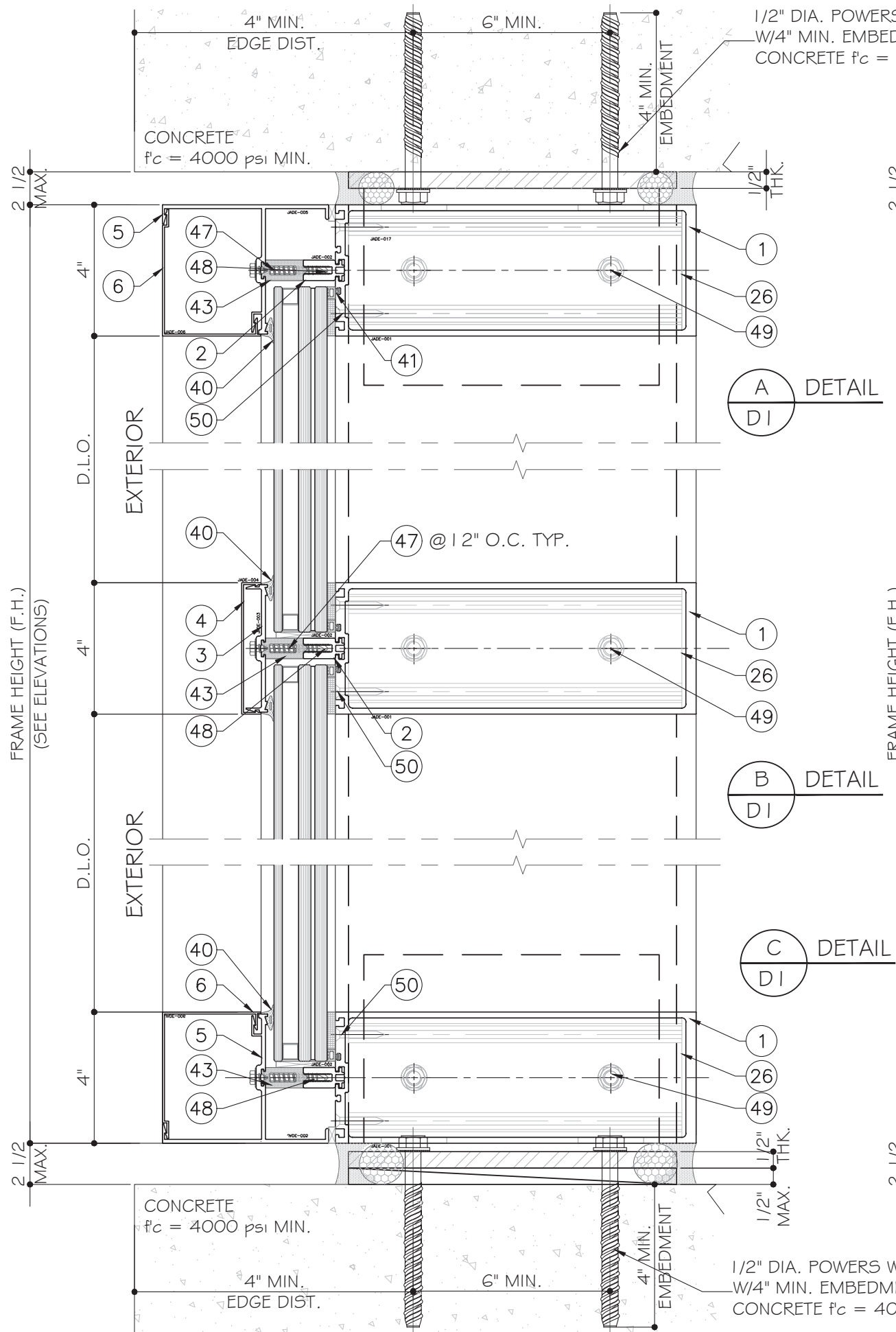
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

E5

DRAWN: James	SHEET No:
DATE: 08/11/23	6 OF 40
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D1

DRAWN: James	SHEET No:
DATE: 08/11/23	7 OF 40
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

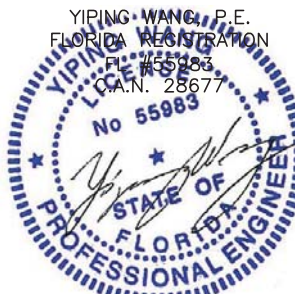
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

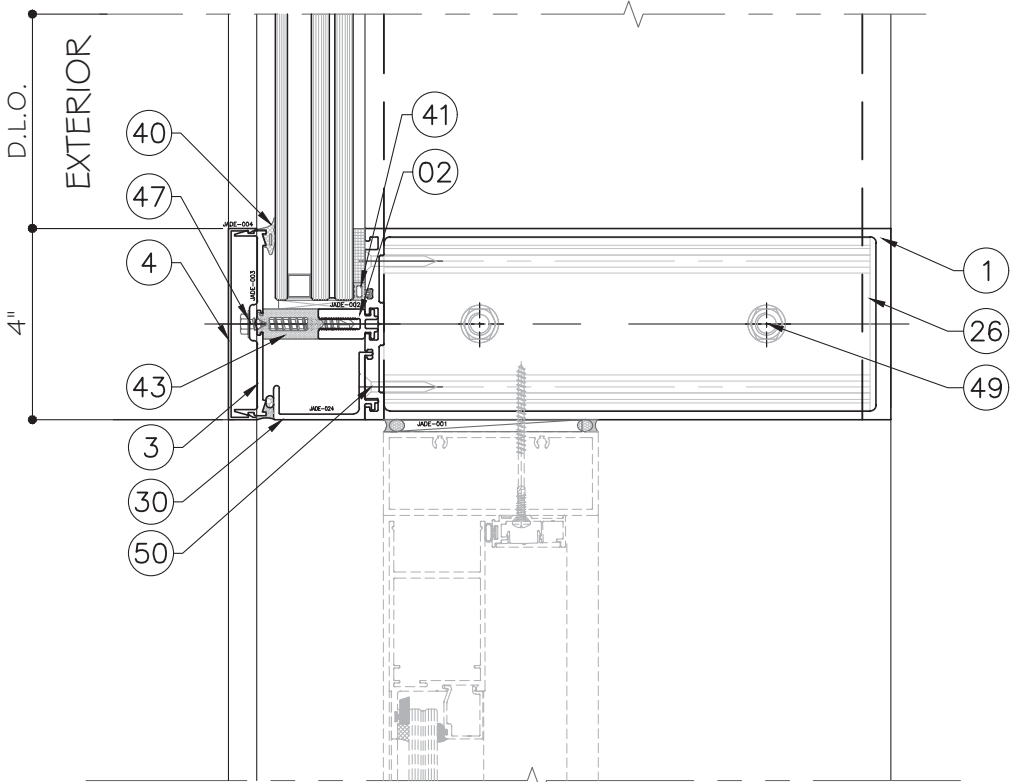
FLORIDA APPROVAL:

FL #20765

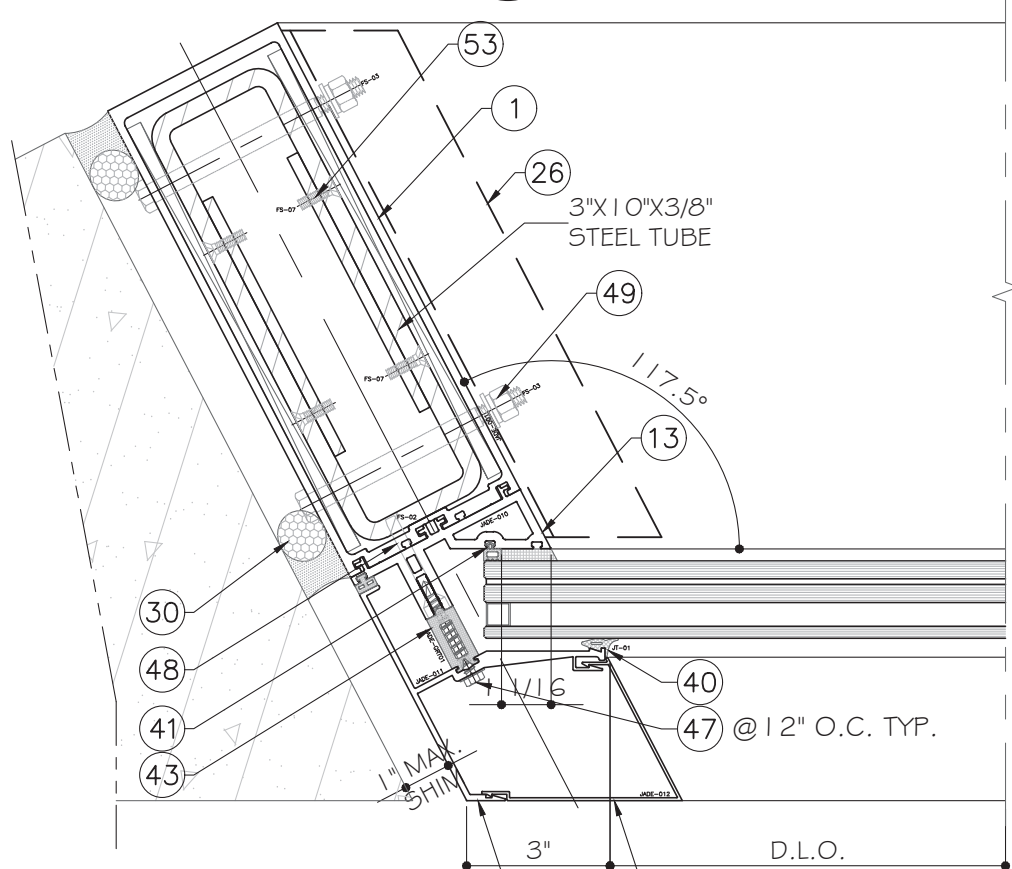
SHEET TITLE:

D2

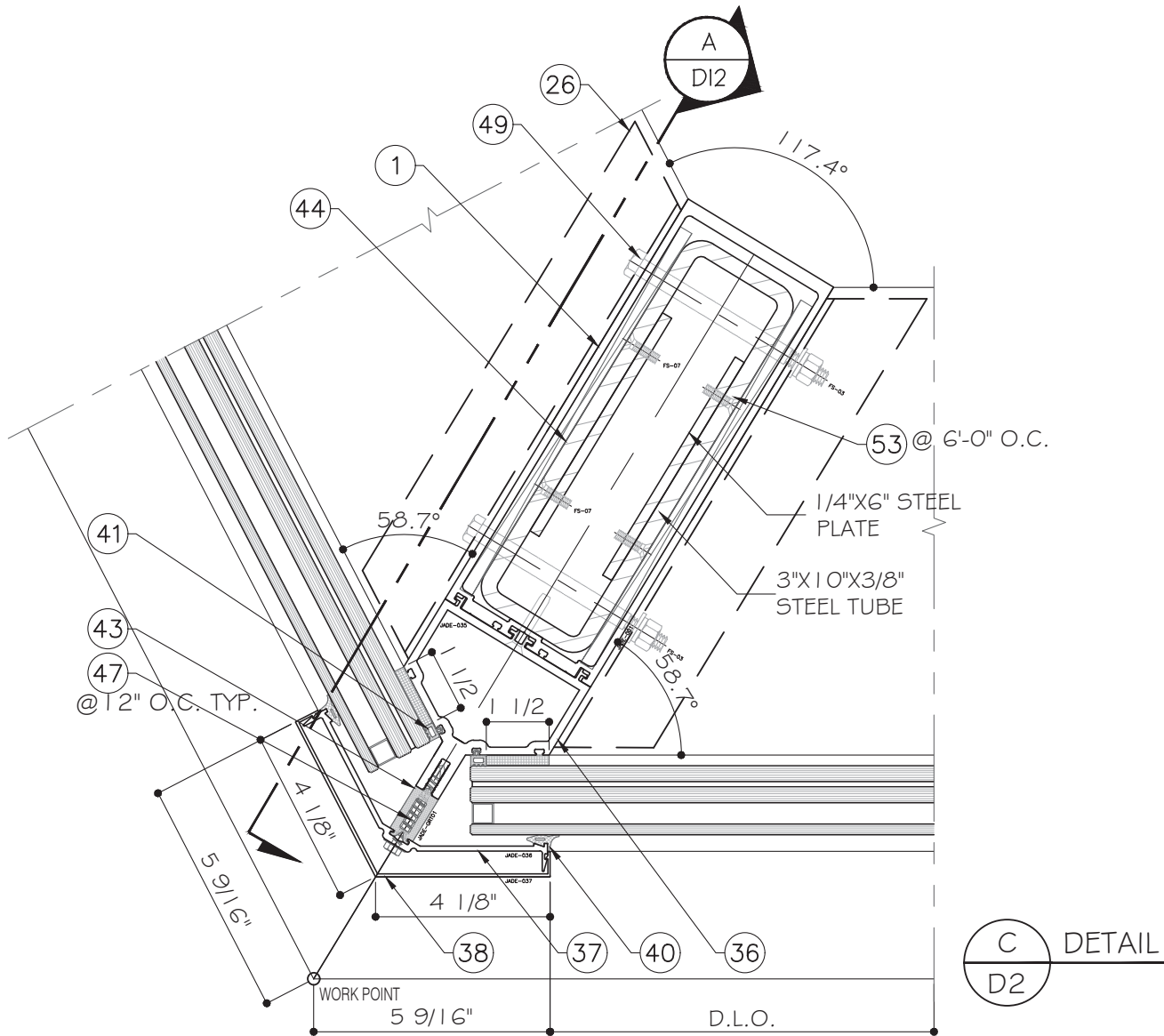
DRAWN: James	SHEET No:
DATE: 08/11/23	8 OF 40
DWG: AD16-21	



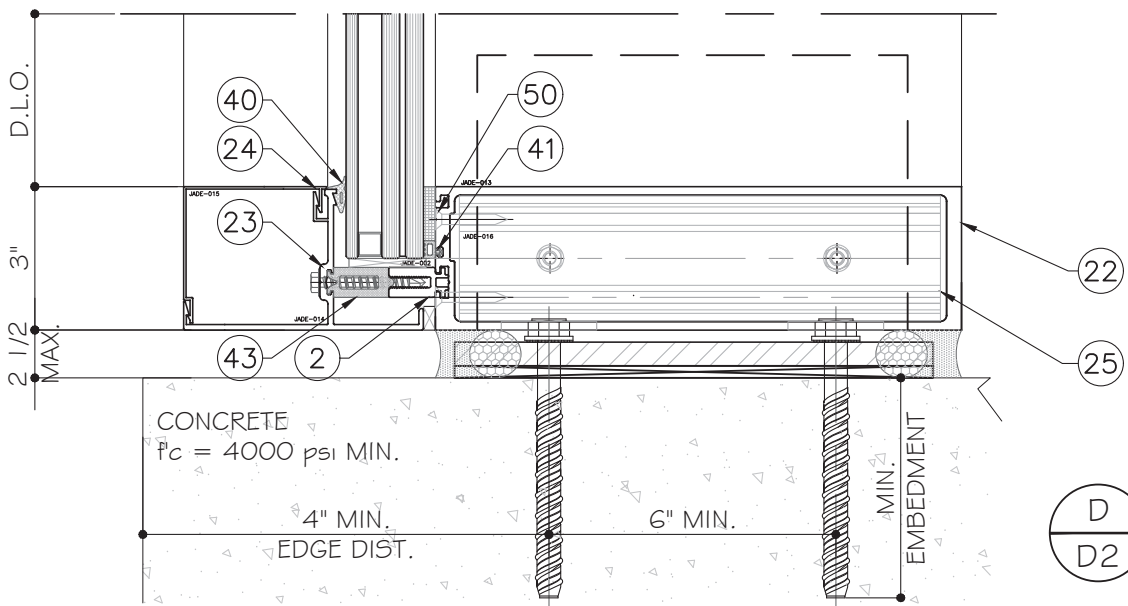
A
D2
DETAIL



B
D2
DETAIL



C
D2
DETAIL



D
D2
DETAIL



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:


MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.N. 28677



August 11th, 2023

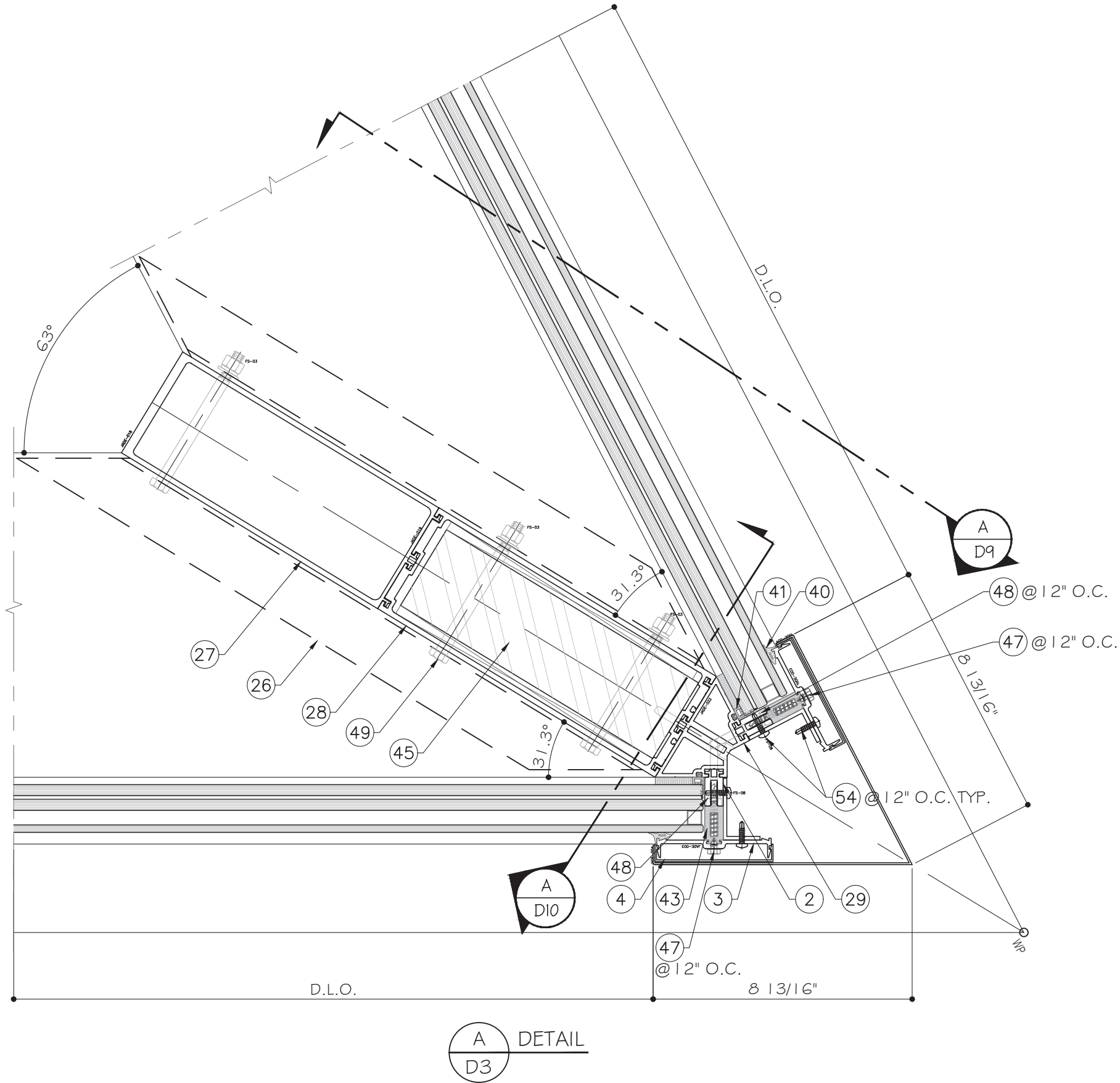
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D3

DRAWN: James	SHEET No:
DATE: 08/11/23	9 OF 40
DWG: AD16-21	





4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

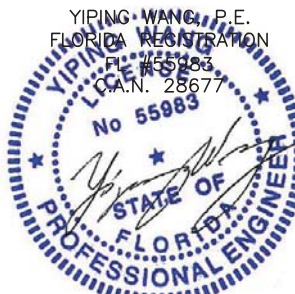
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

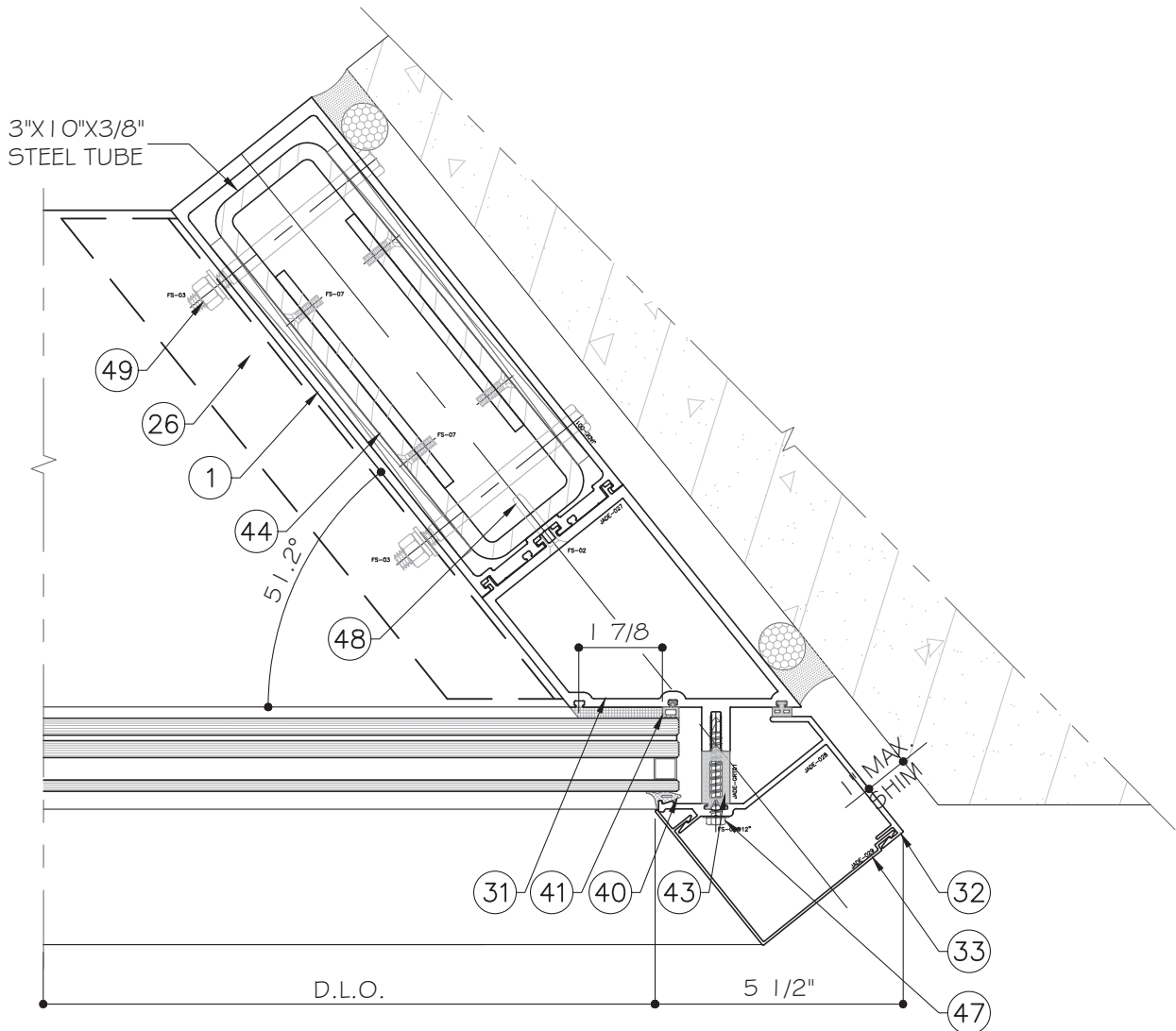
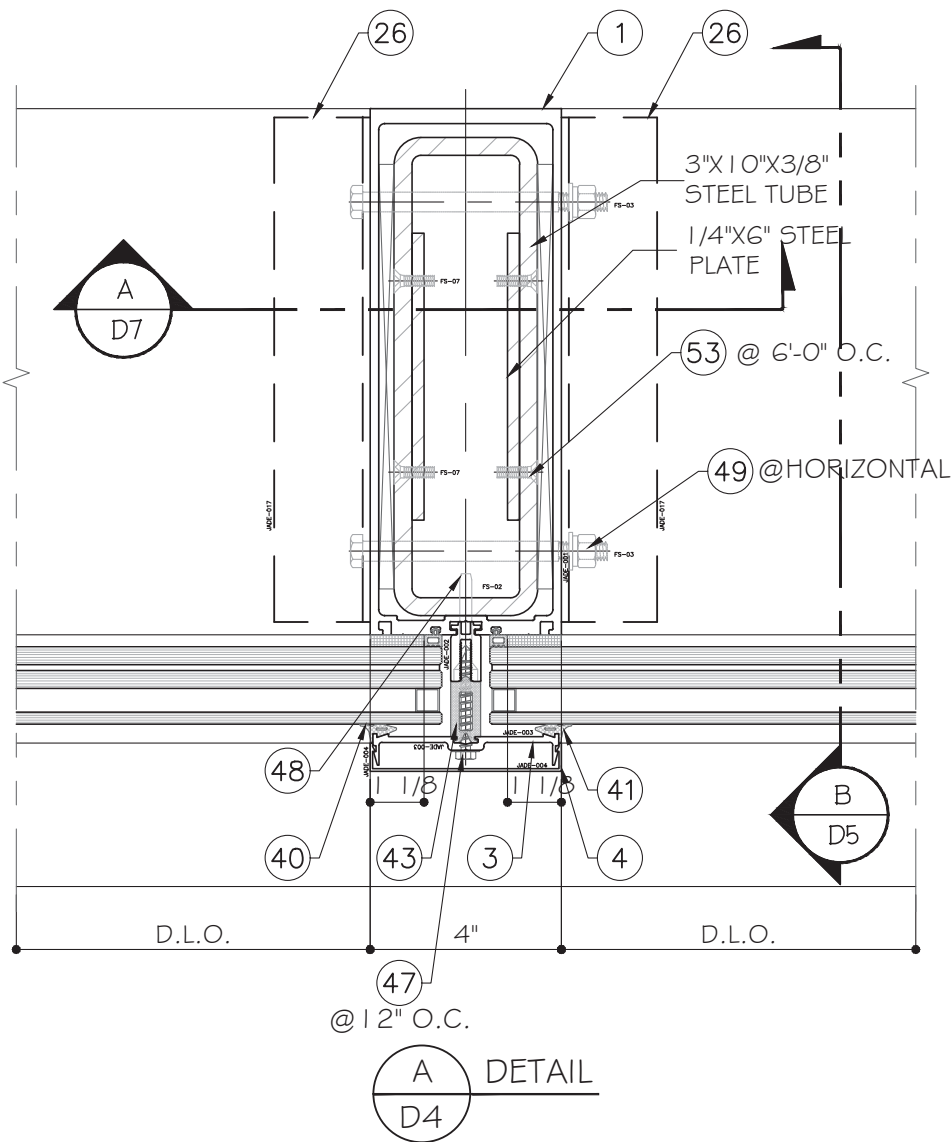
FLORIDA APPROVAL:

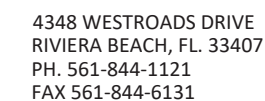
FL #20765

SHEET TITLE:

D4

DRAWN: James	SHEET No:
DATE: 08/11/23	10 OF 40
DWG: AD16-21	





Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
CAN 28677



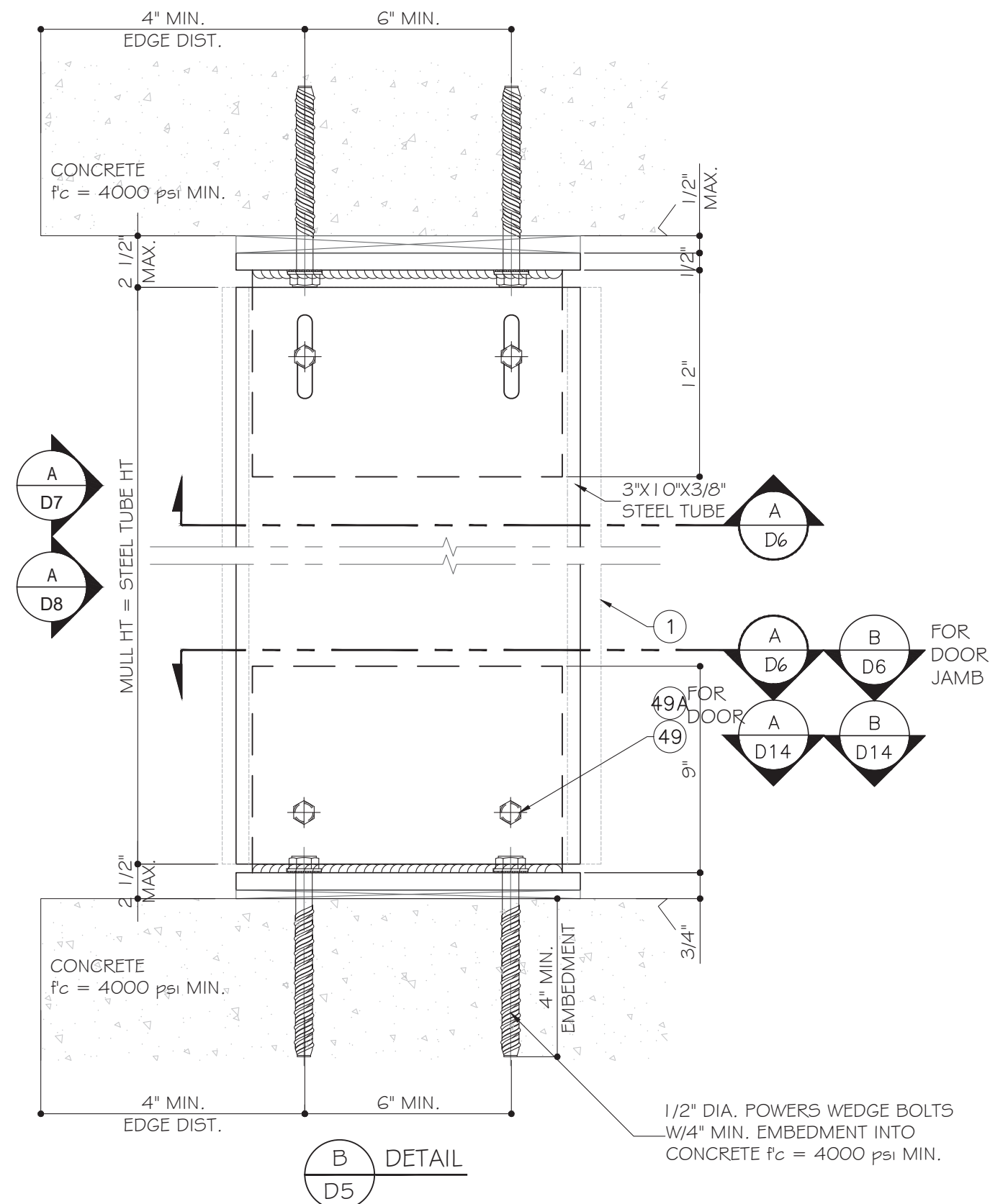
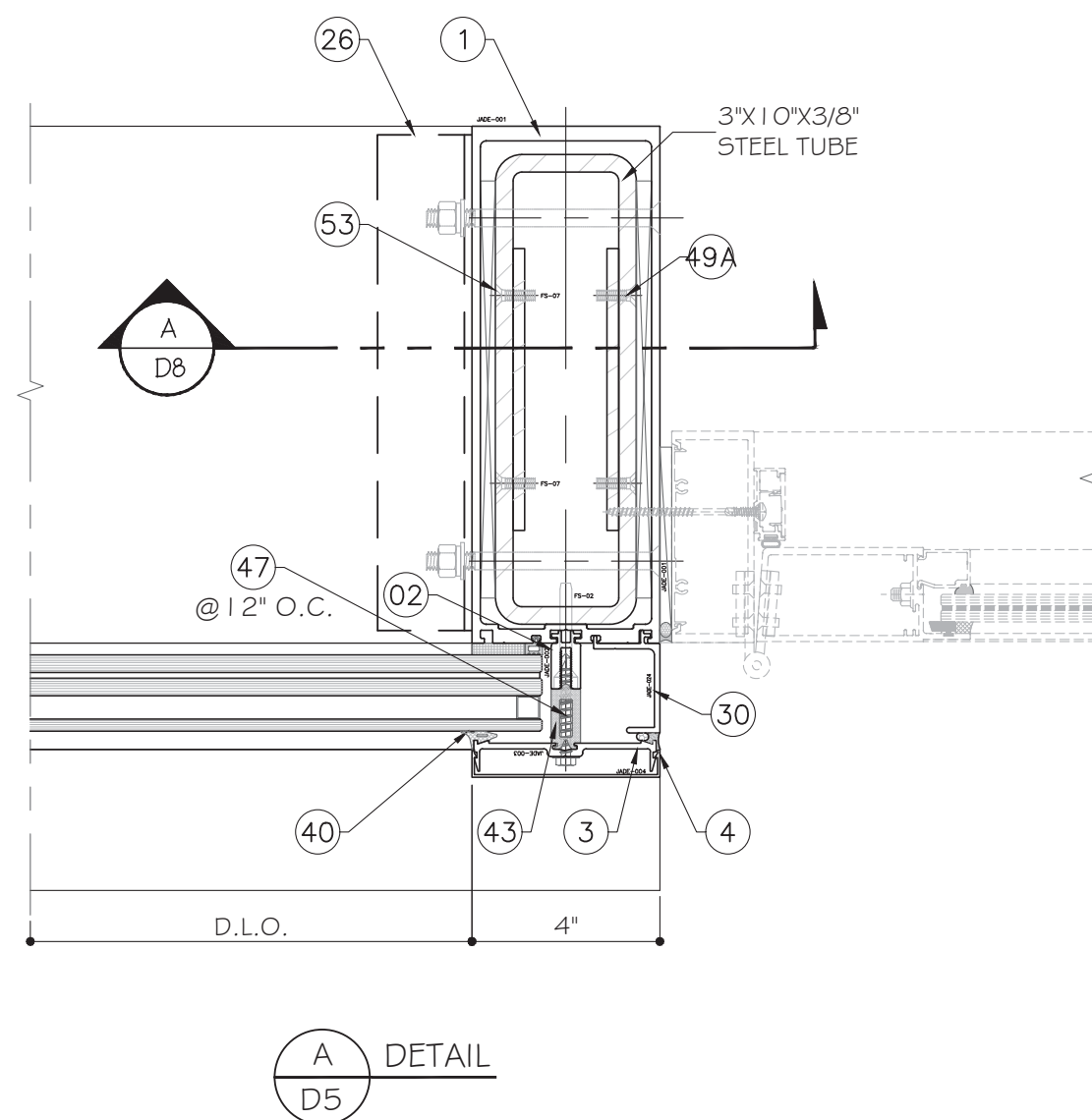
August 11th, 2023

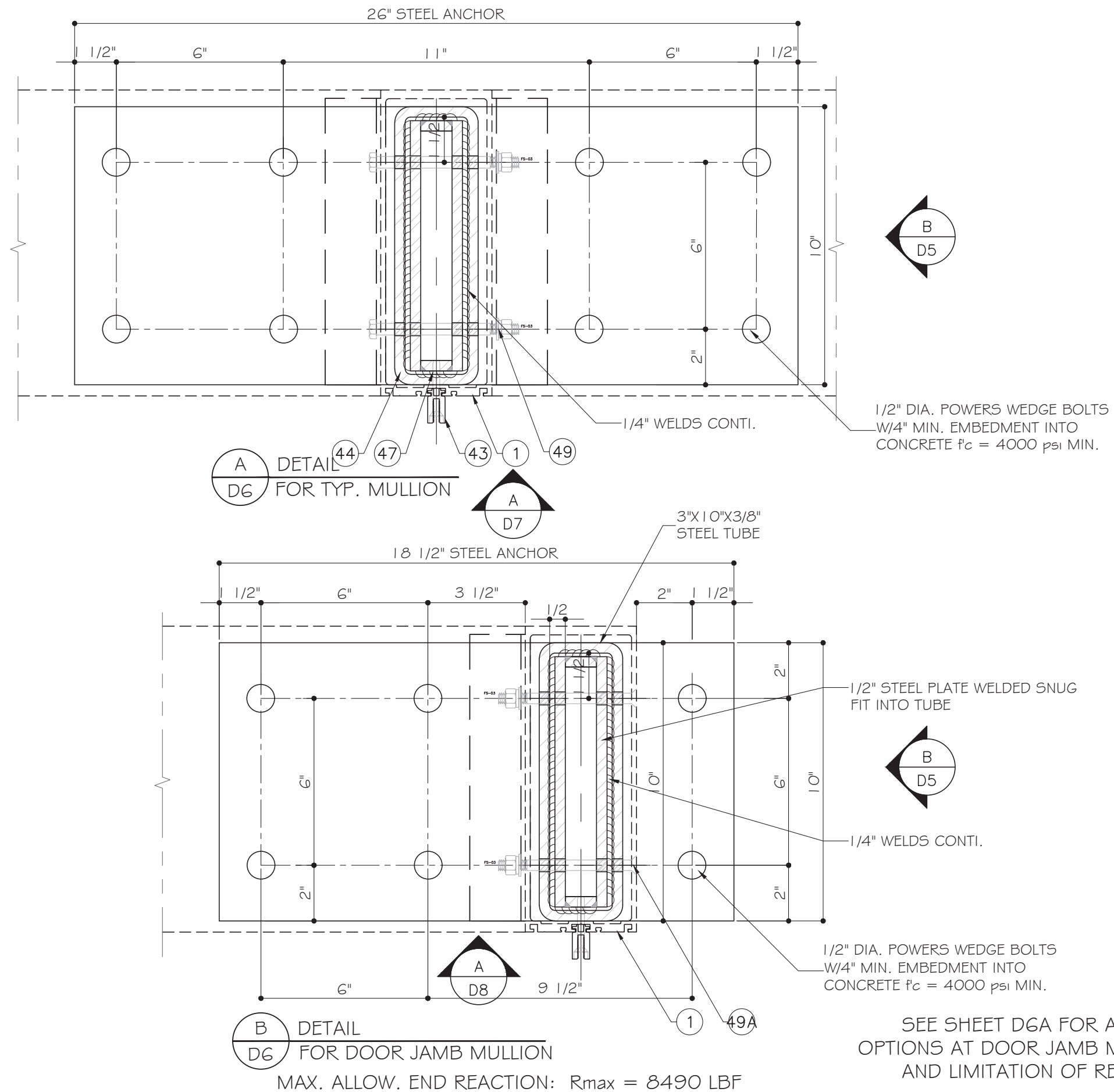
FLORIDA APPROVAL:

FL #20765

D5

DRAWN: James	SHEET No: 11 OF 40
DATE: 08/11/23	
DWG: AD16-21	





4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D6

DRAWN: James	SHEET No:
DATE: 08/11/23	12 OF 40
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

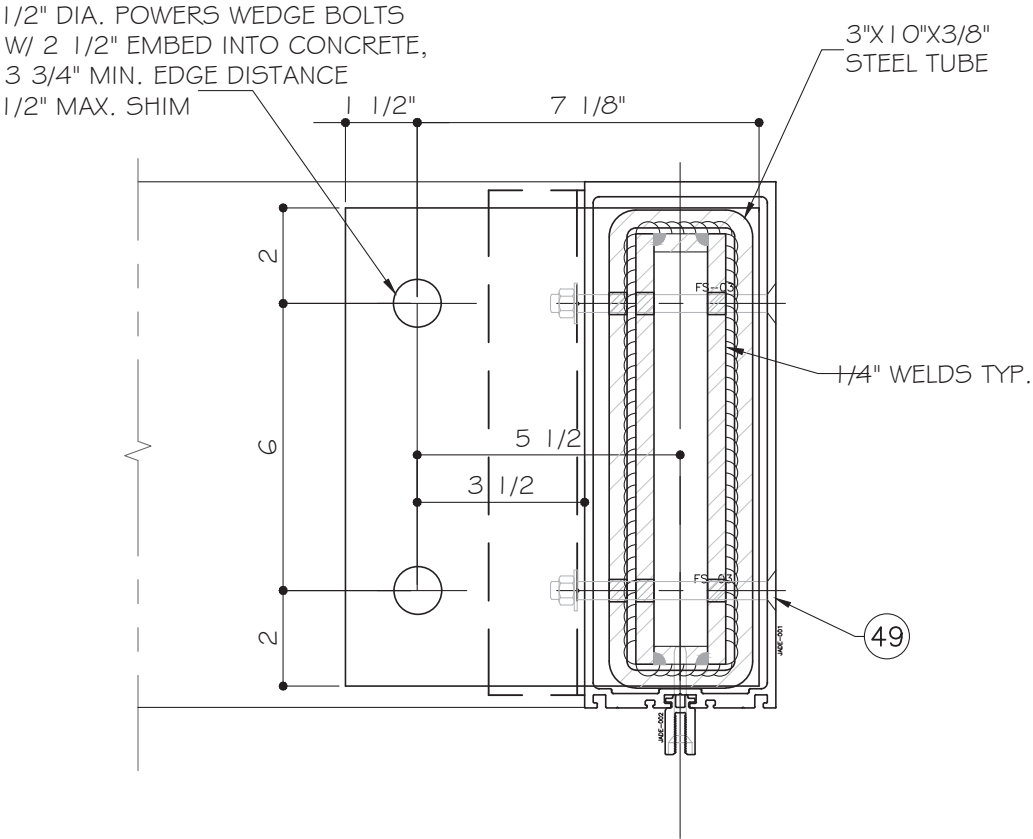
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

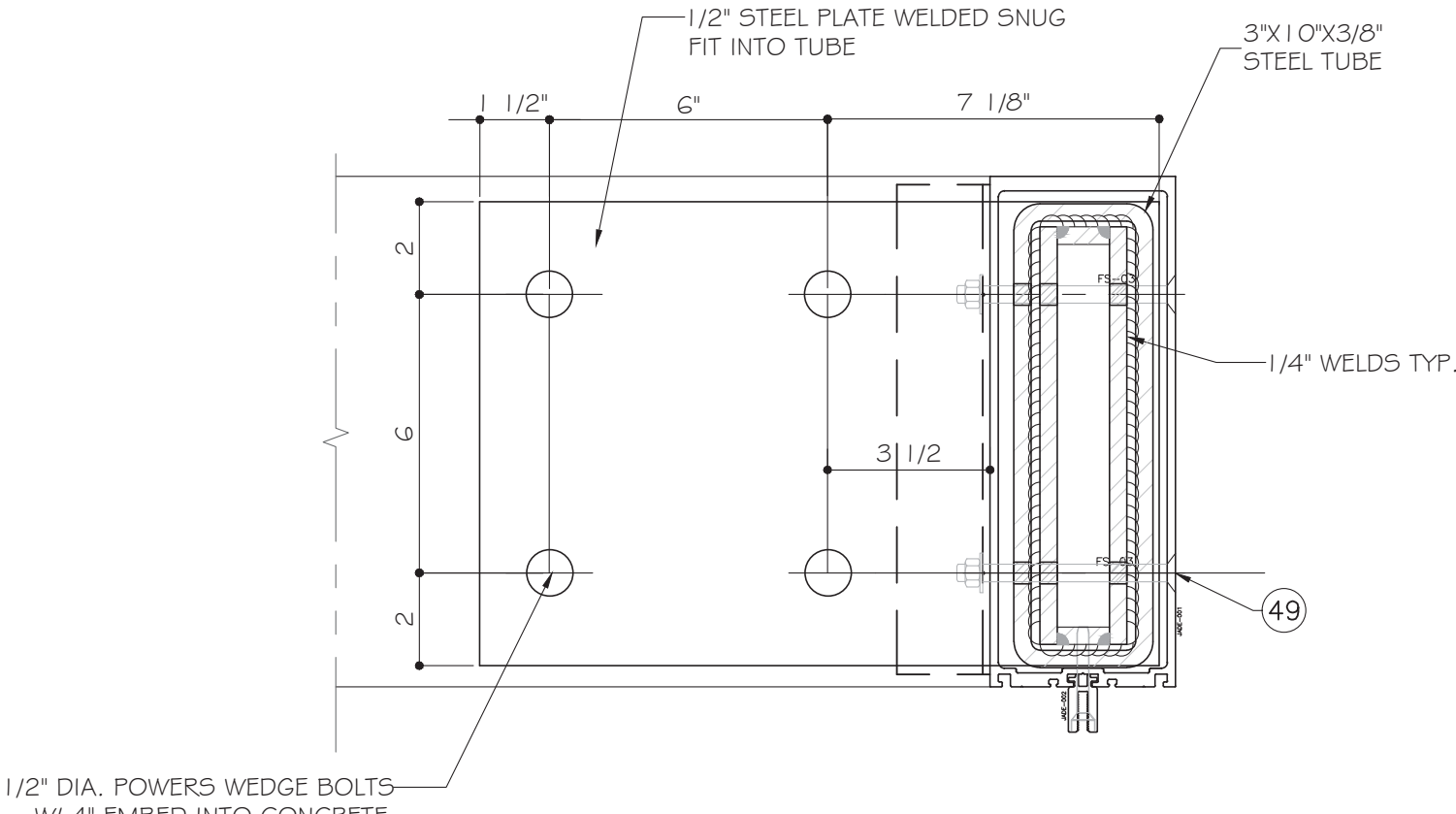
D6A

DRAWN: James	SHEET No:
DATE: 08/11/23	13 OF 40
DWG: AD16-21	



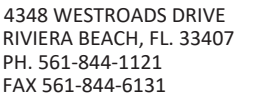
A ANCHOR OPTION
D6A AT DOOR JAMB MULLION

MAX. ALLOW. END REACTION:
 $R_{max} = 2150 \text{ LBF}$



B ANCHOR OPTION
D6A AT DOOR JAMB MULLION

MAX. ALLOW. END REACTION:
 $R_{max} = 5660 \text{ LBF}$



Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REV#	DATE/REMARKS
R3	FBC 2023



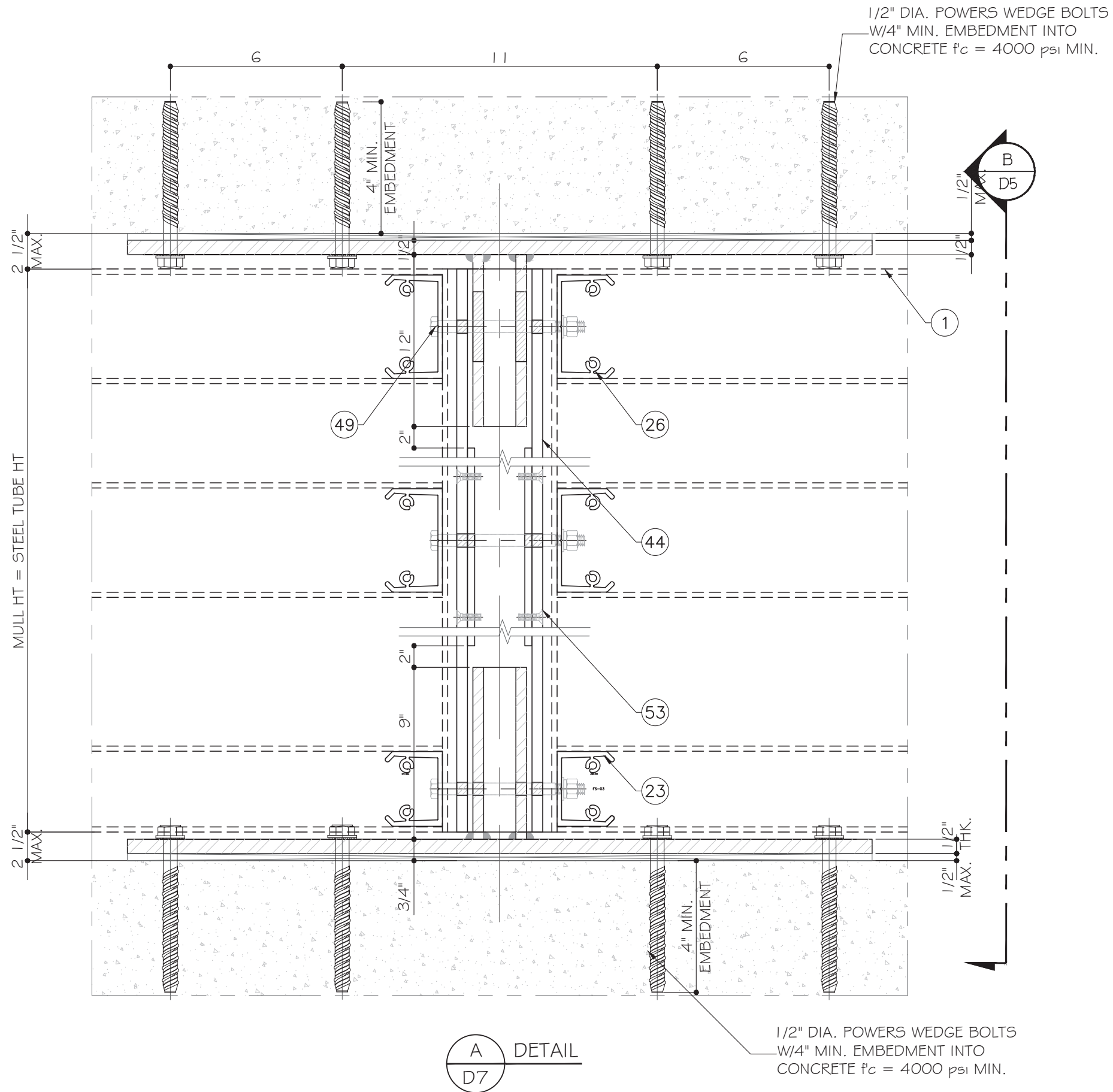
12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

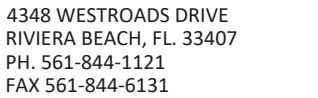
YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 28677

FL #20765

D7

SHEET No:
14 OF 40





Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REV#	DATE/REMARKS
R3	FBC 2023



12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 28677

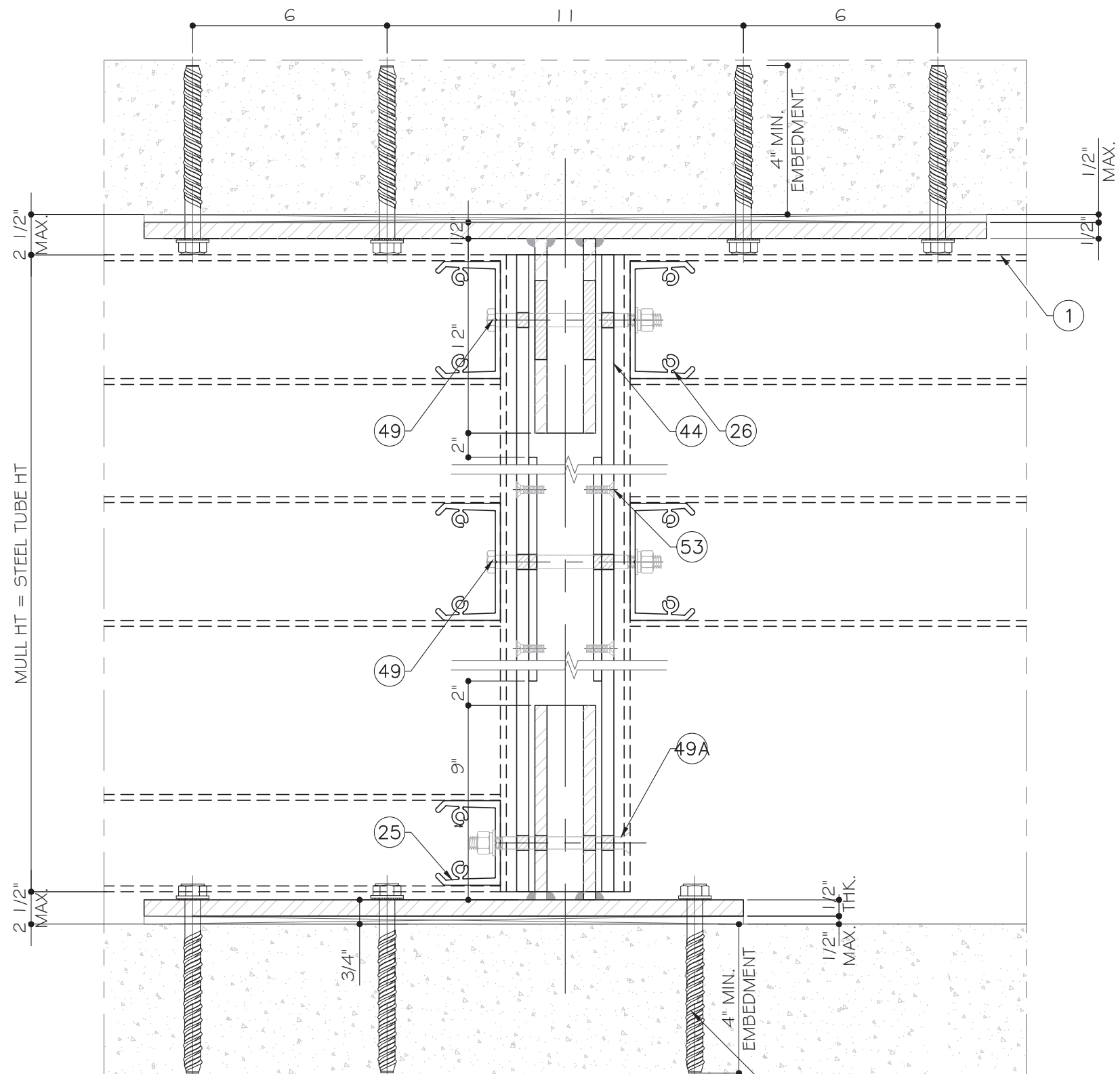


FLORIDA APPROVAL:

FL #20765

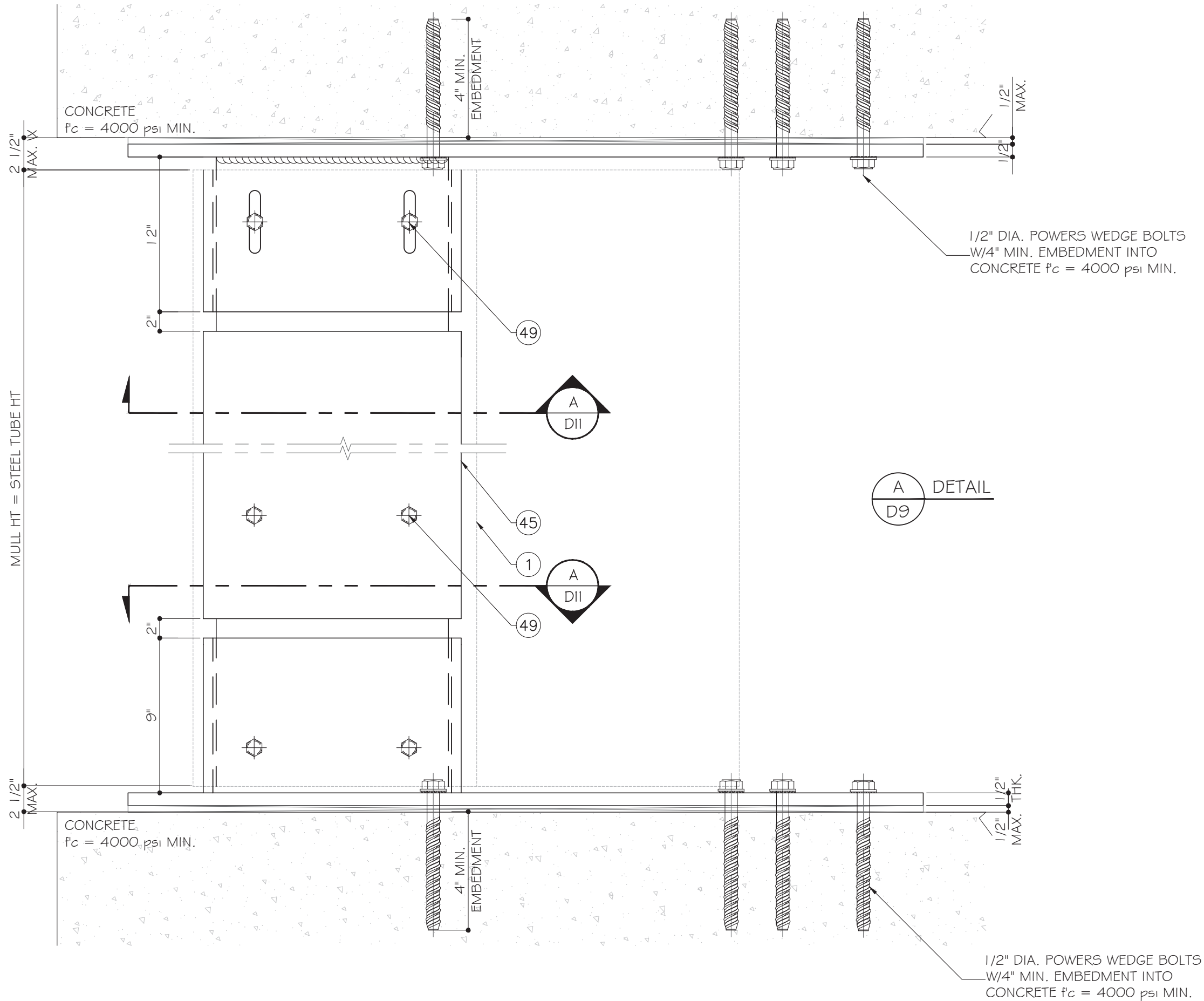
D8

DRAWN: James	SHEET No: 15 OF 40
DATE: 08/11/23	
DWG: AD16-21	



1/2" DIA. POWERS WEDGE BOLTS
W/4" MIN. EMBEDMENT INTO
CONCRETE $f'_c = 4000$ psi MIN.

A
D8
 DETAIL FOR DOOR JAMB MULLION



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D9

DRAWN: James	SHEET No: 16 OF 40
DATE: 08/11/23	
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

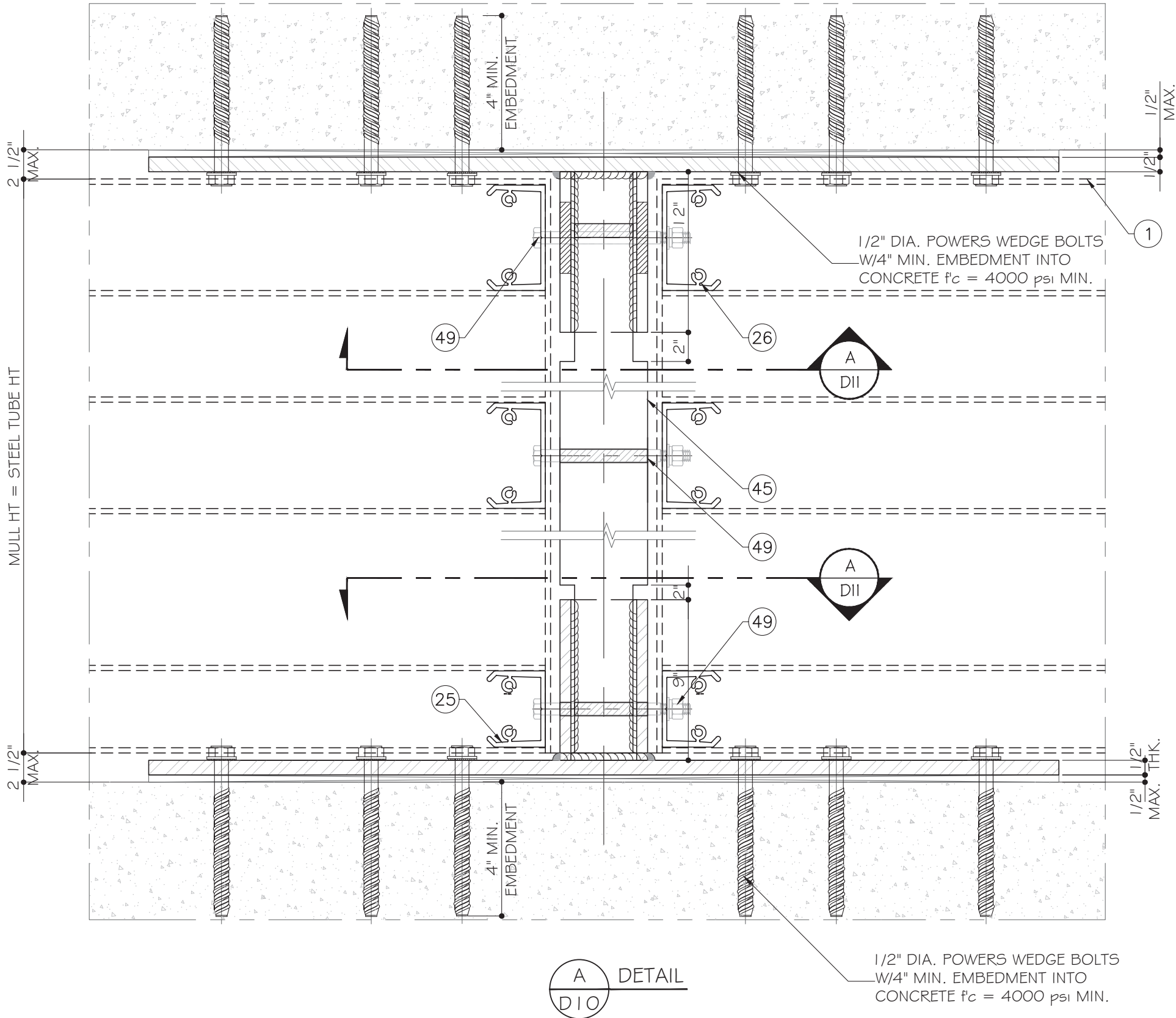
FLORIDA APPROVAL:

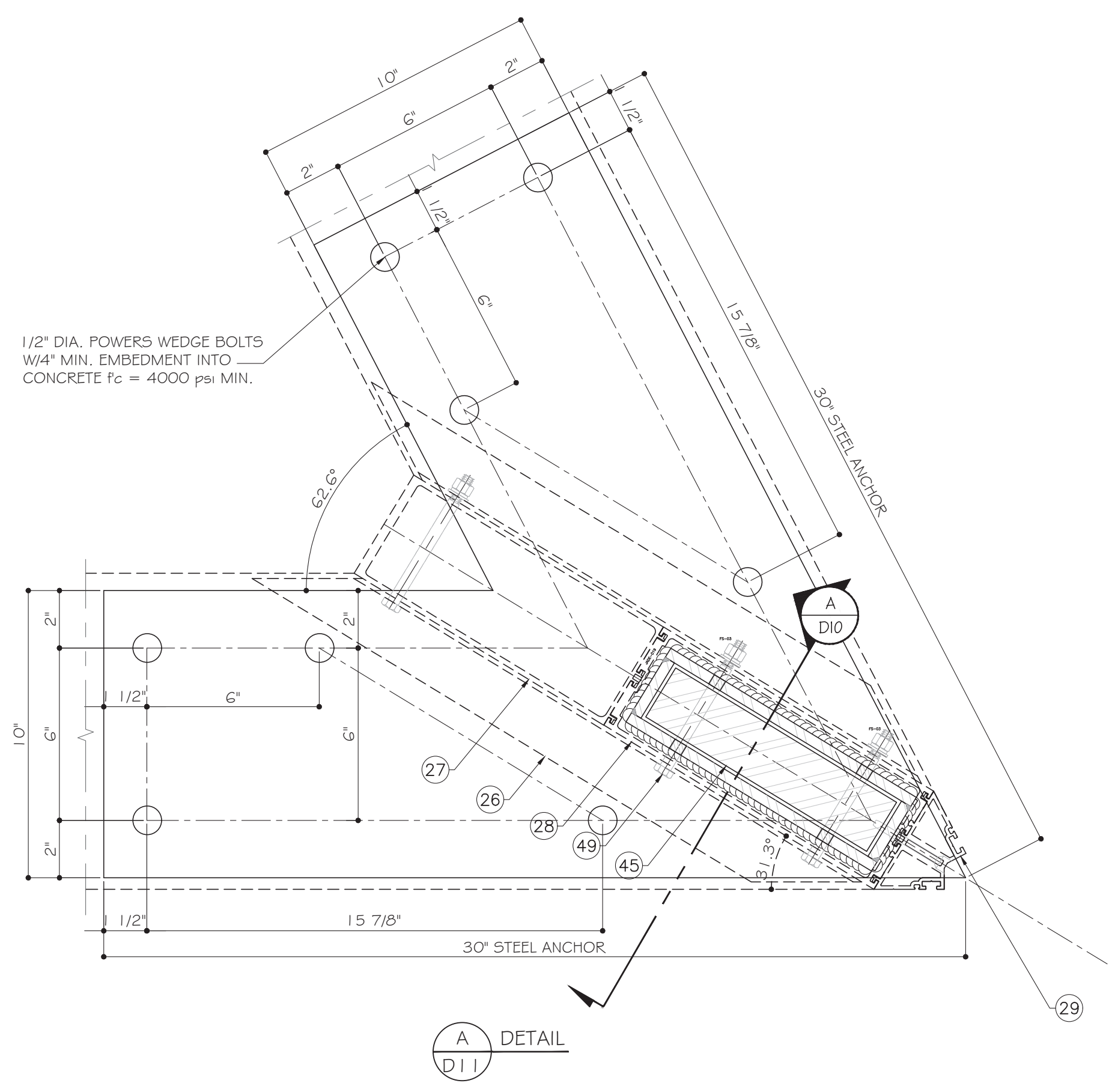
FL #20765

SHEET TITLE:

D10

DRAWN: James	SHEET No: 17 OF 40
DATE: 08/11/23	
DWG: AD16-21	





4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:


MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 28677



August 11th, 2023

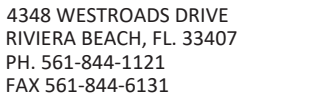
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D11

DRAWN: James	SHEET No:
DATE: 08/11/23	18 OF 40
DWG: AD16-21	



Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REV#	DATE/REMARKS
R3	FBC 2023



12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

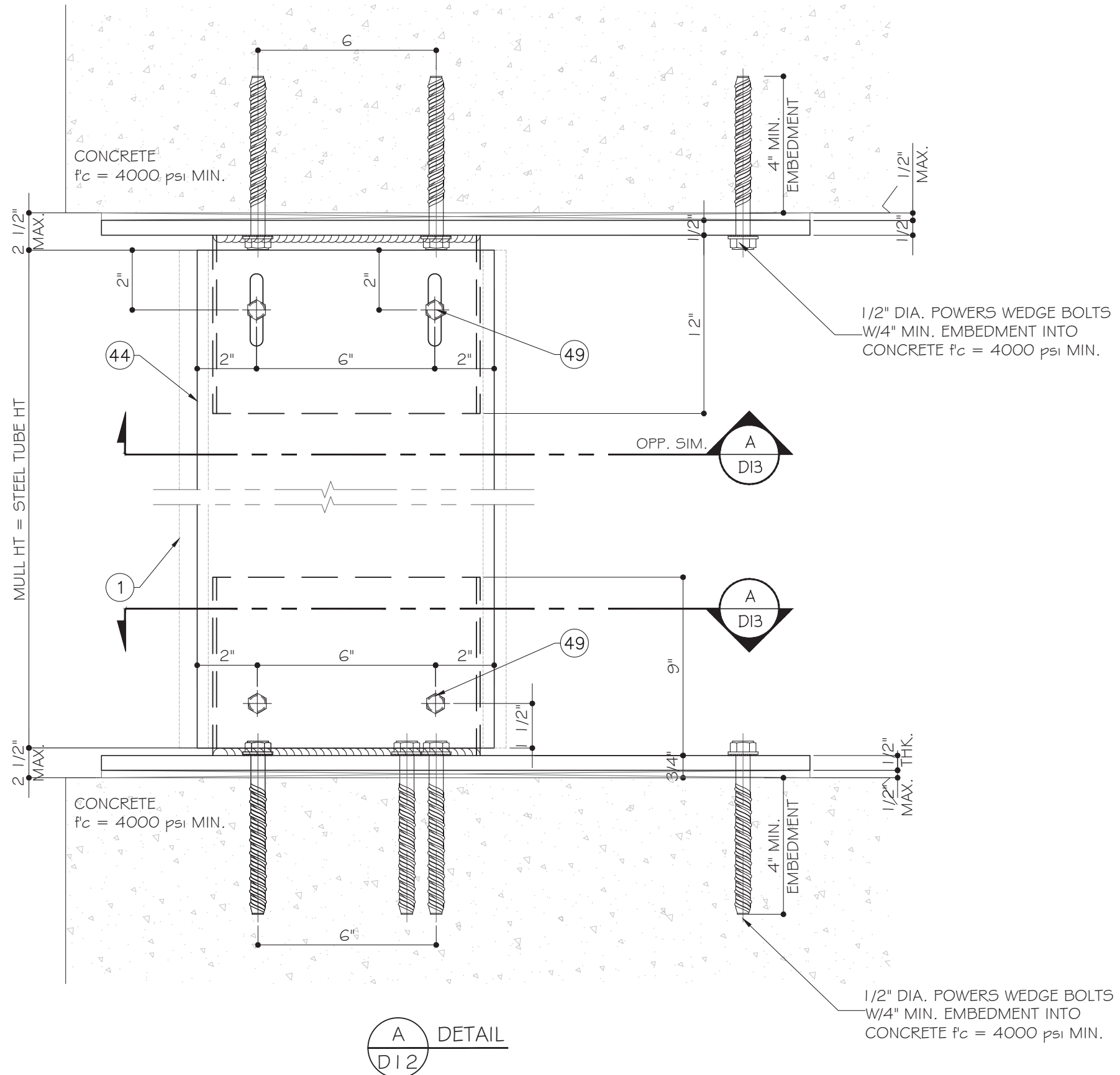
YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 28677

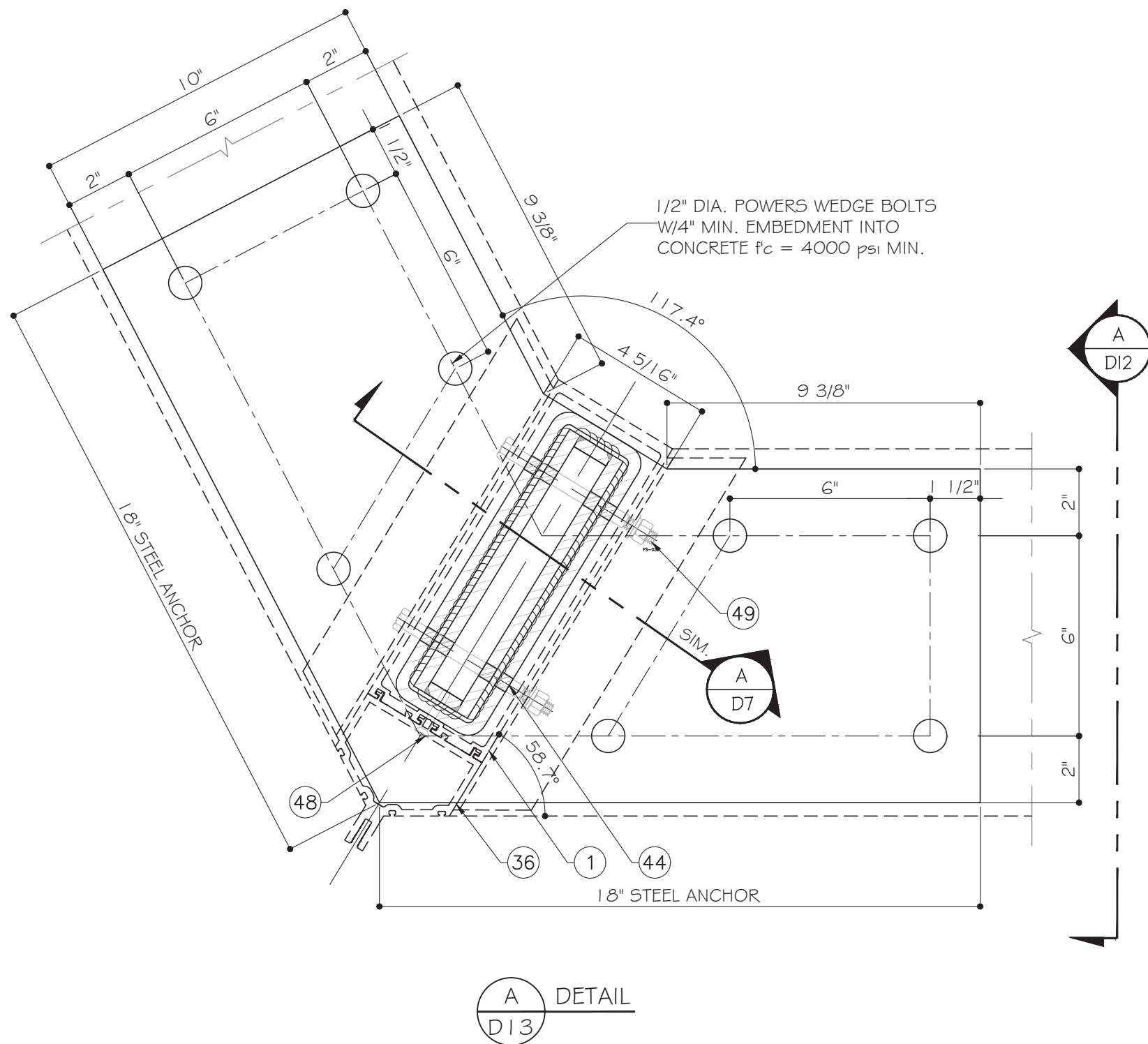


FL #20765

D12

DRAWN: James	SHEET No: 19 OF 40
DATE: 08/11/23	
DWG: AD16-21	





4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

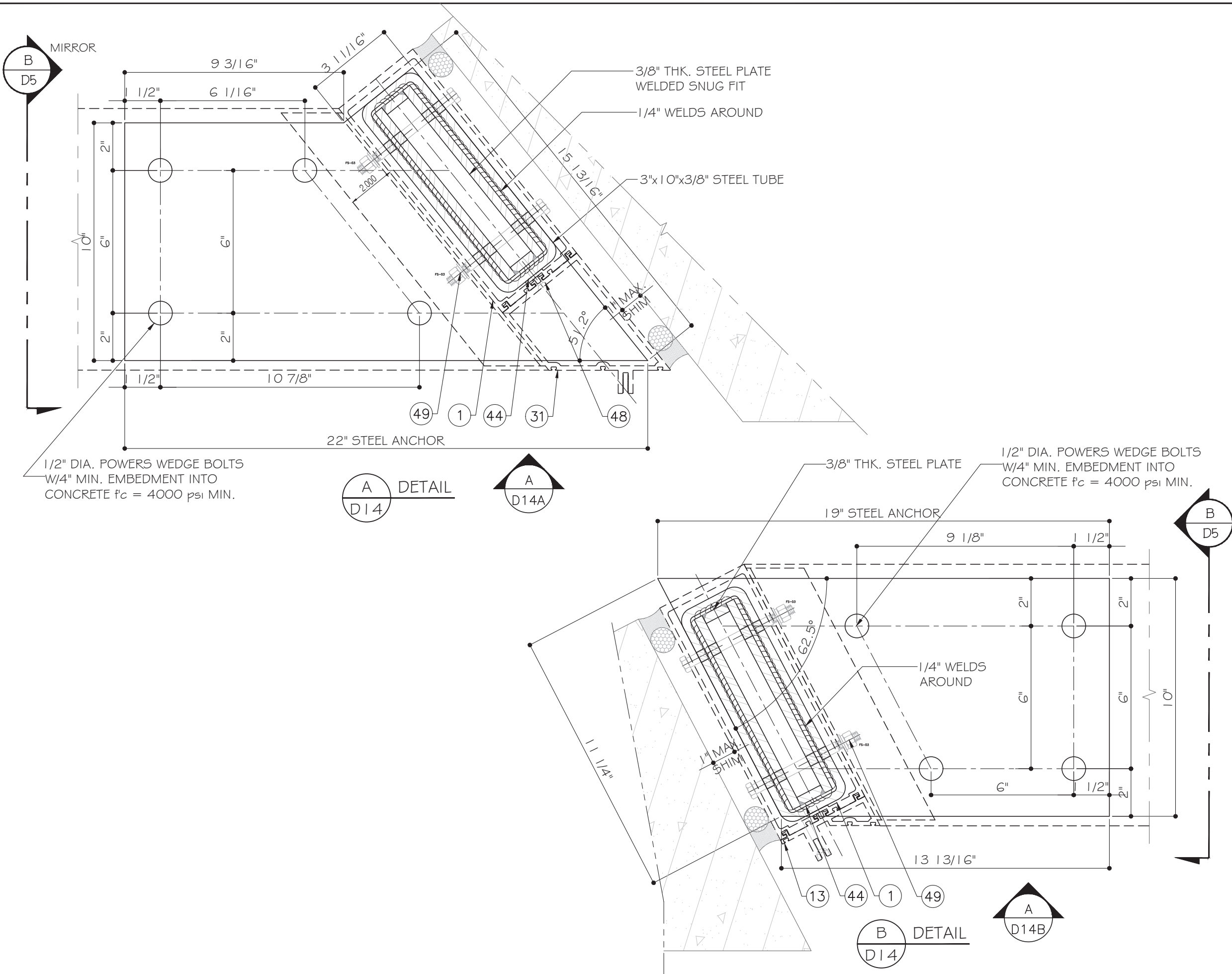
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D13

DRAWN: James	SHEET No:
DATE: 08/11/23	20 OF 40
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

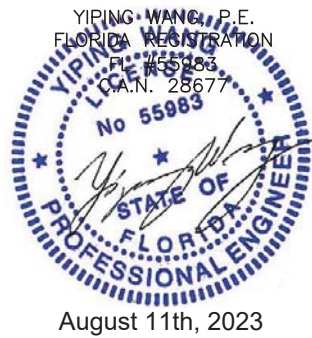
ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



FLORIDA APPROVAL:

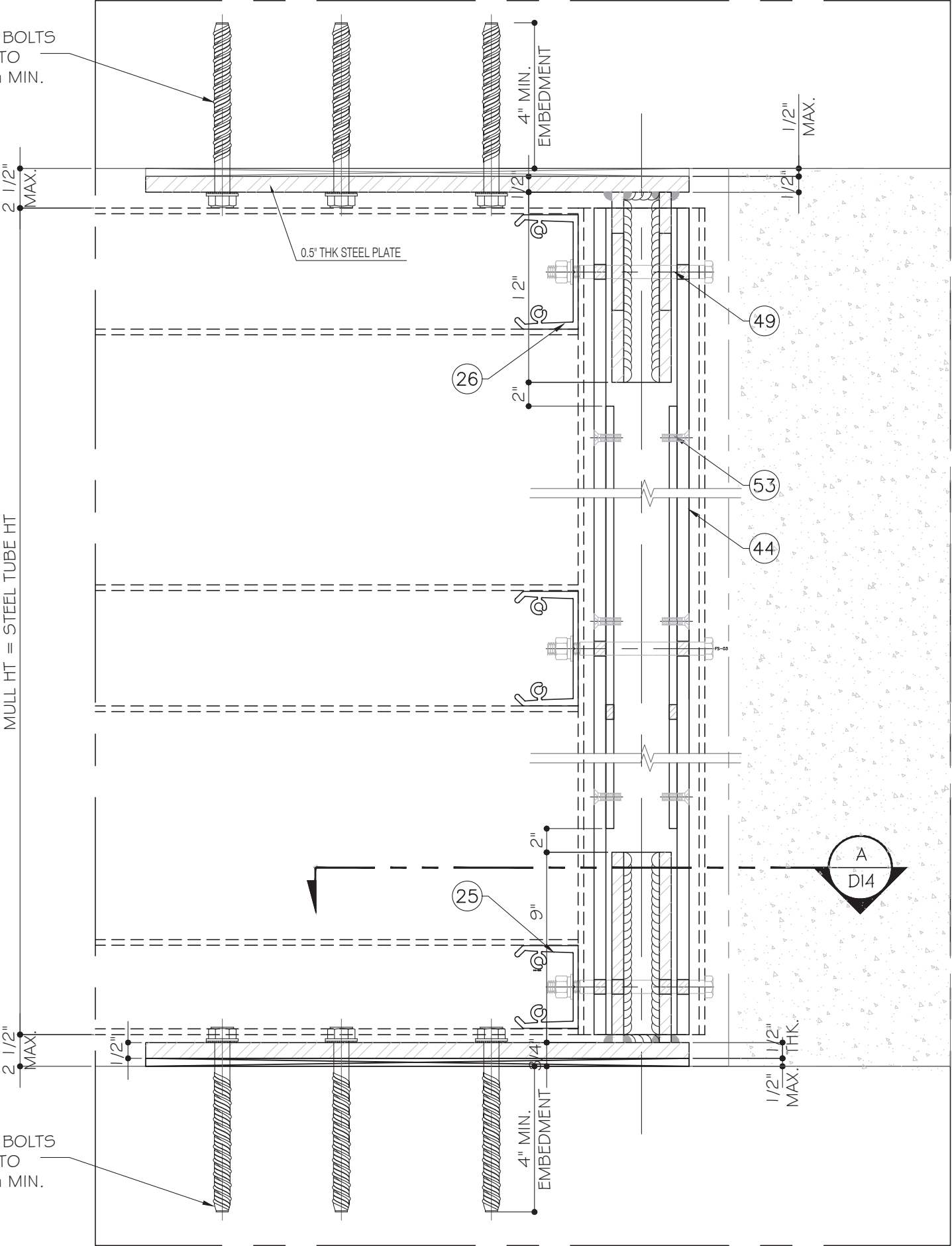
FL #20765

SHEET TITLE:

D14

DRAWN: James	SHEET No:
DATE: 08/11/23	21 OF 40
DWG: AD16-21	

1/2" DIA. POWERS WEDGE BOLTS
W/4" MIN. EMBEDMENT INTO
CONCRETE $f'_c = 4000$ psi MIN.



1/2" DIA. POWERS WEDGE BOLTS
W/4" MIN. EMBEDMENT INTO
CONCRETE $f'_c = 4000$ psi MIN.

A
D14A
DETAIL



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

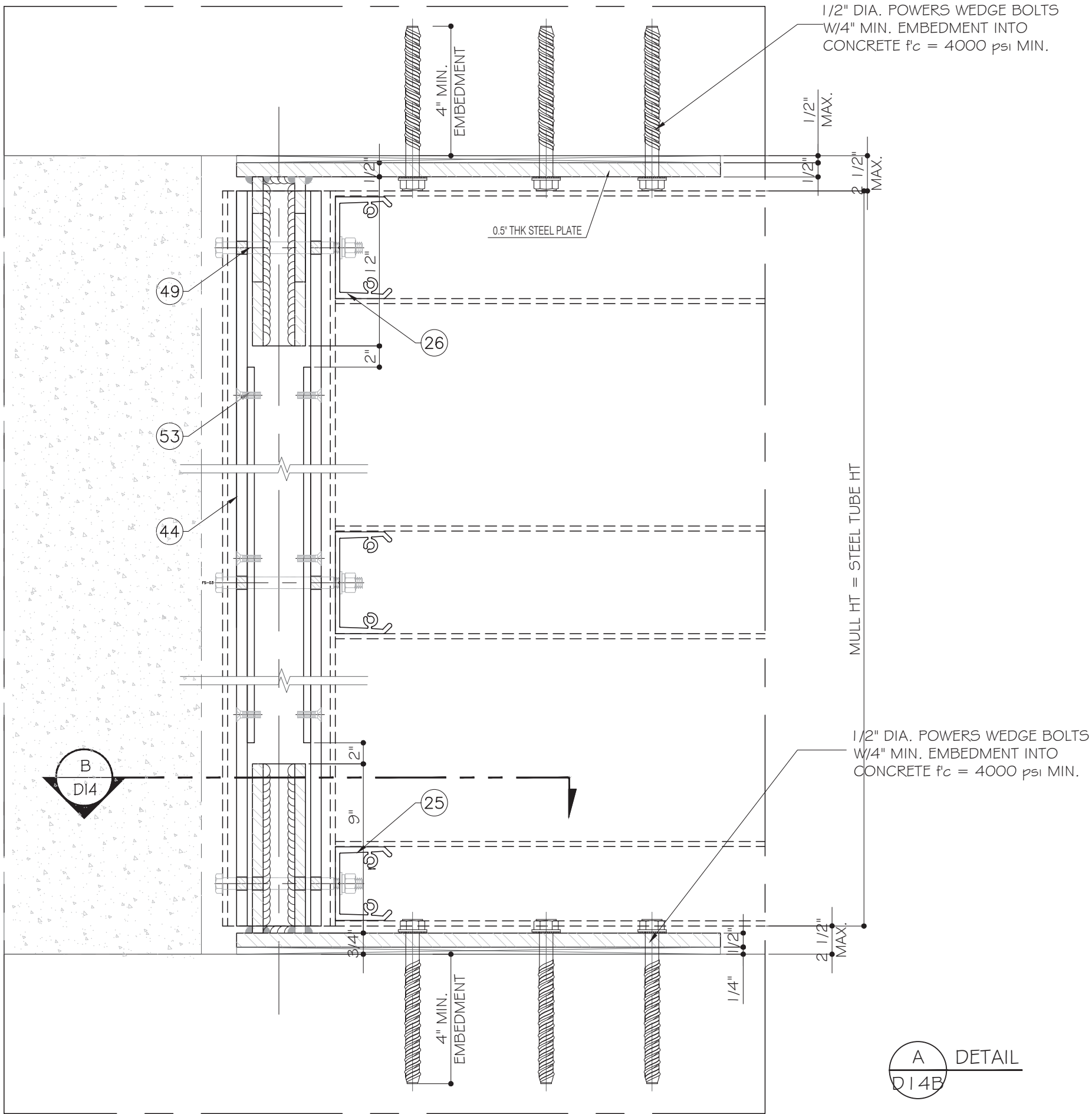
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D14A

DRAWN: James	SHEET No:
DATE: 08/11/23	22 OF 40
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

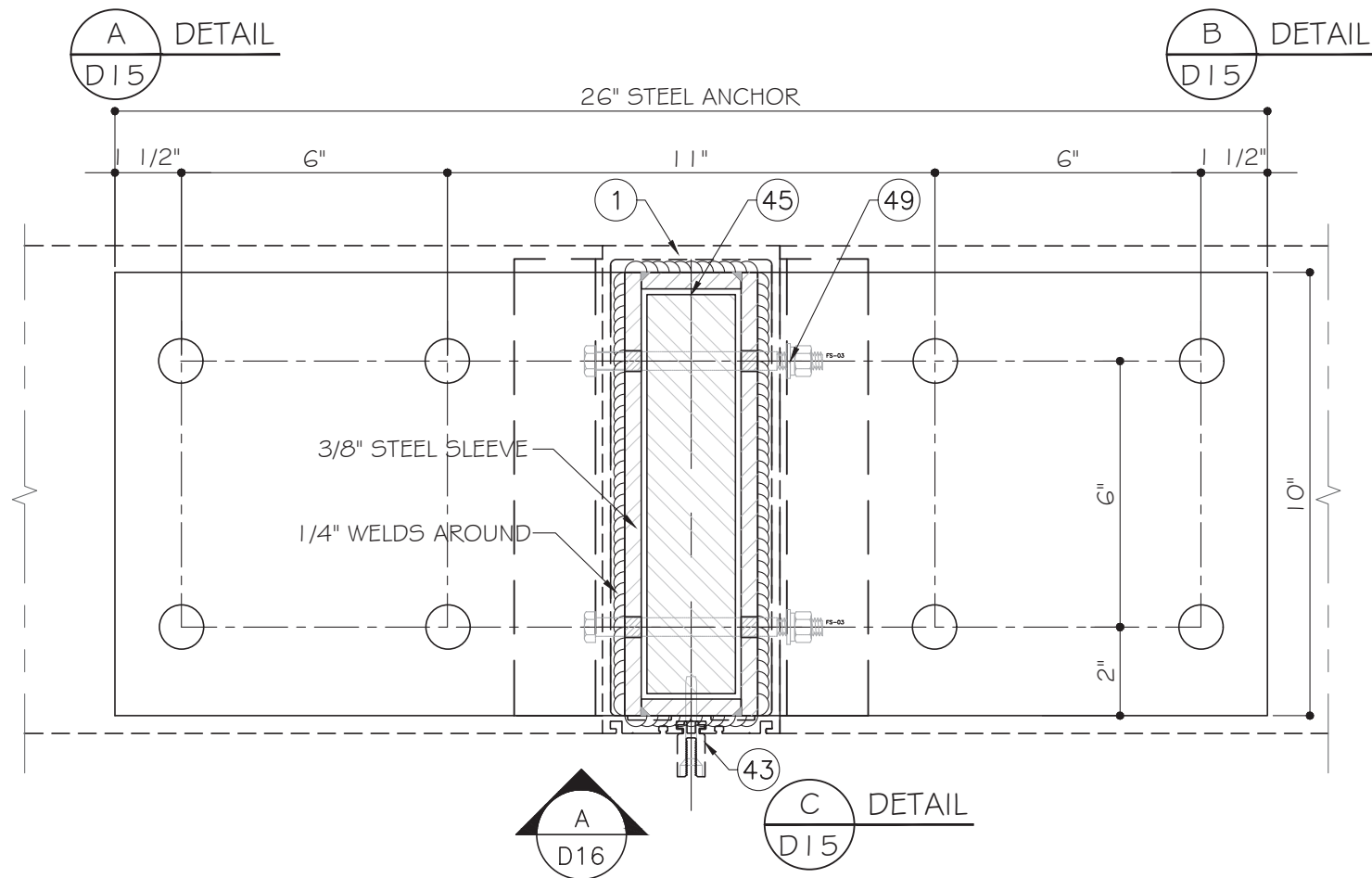
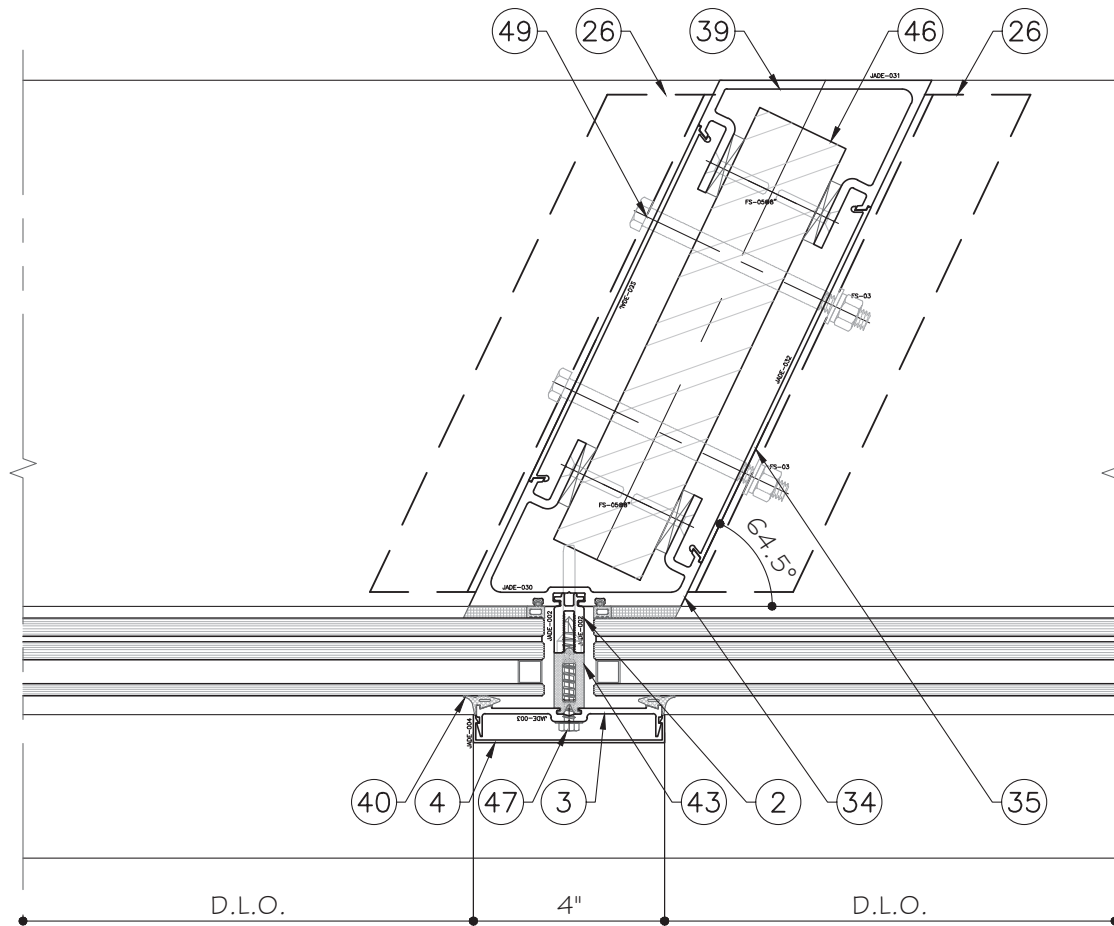
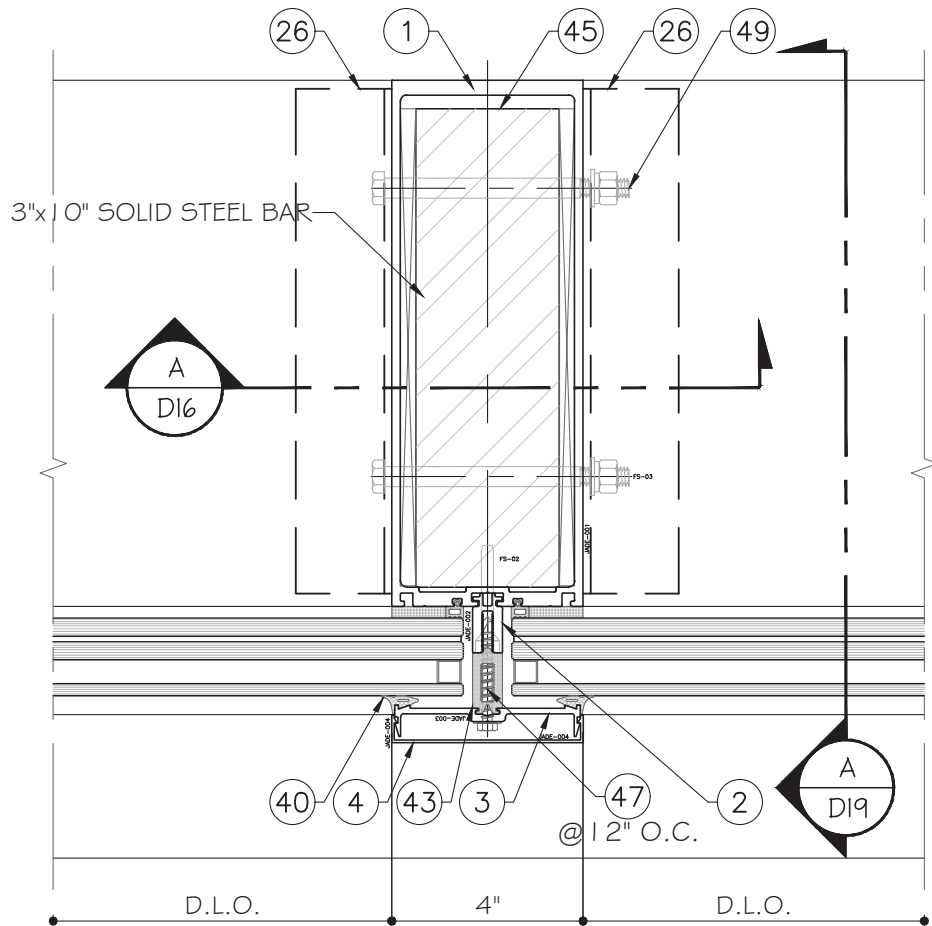
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D14B

DRAWN: James	SHEET No:
DATE: 08/11/23	23 OF 40
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

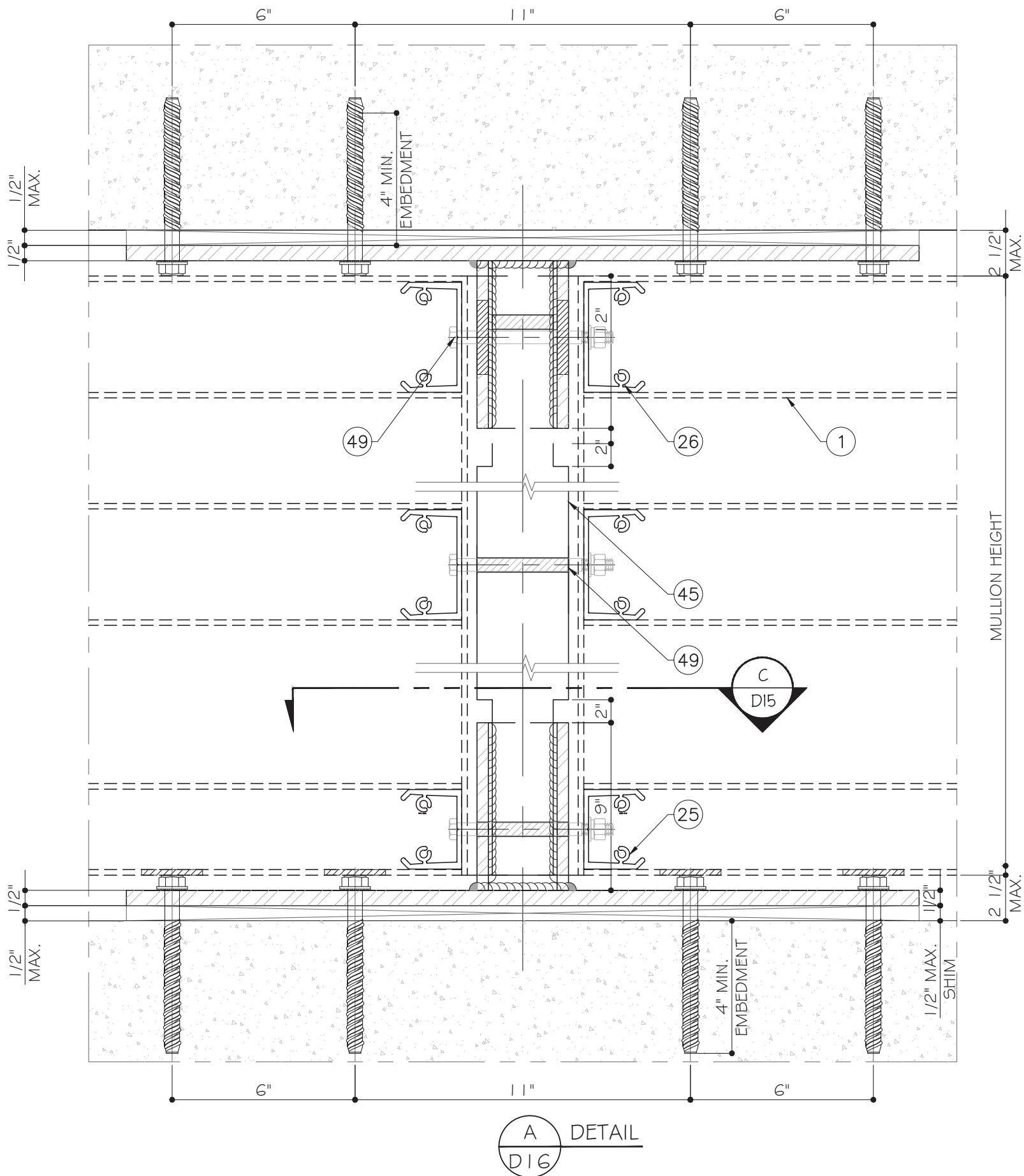
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D15

DRAWN: James	SHEET No:
DATE: 08/11/23	24 OF 40
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D16

DRAWN: James	SHEET No:
DATE: 08/11/23	25 OF 40
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

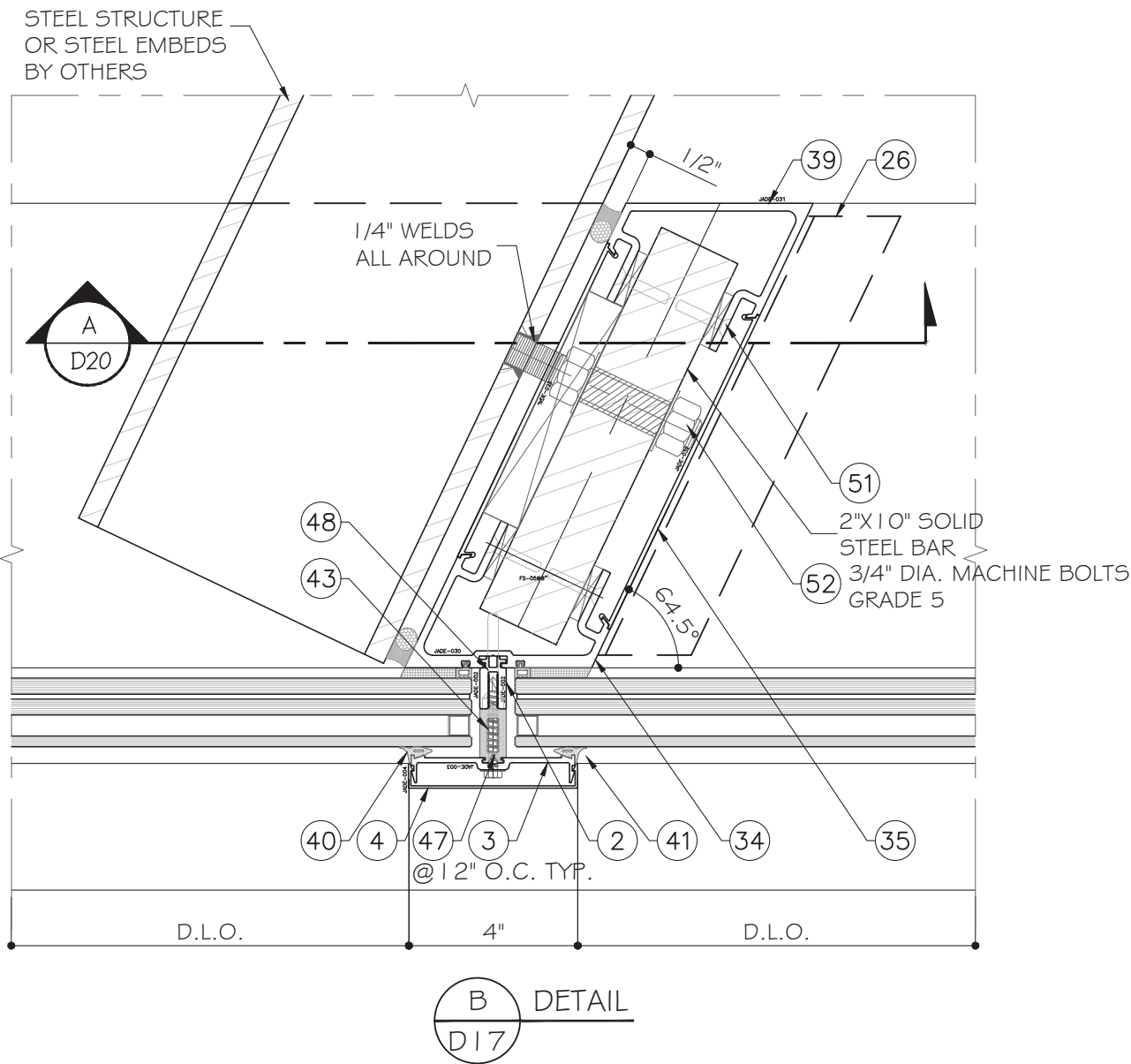
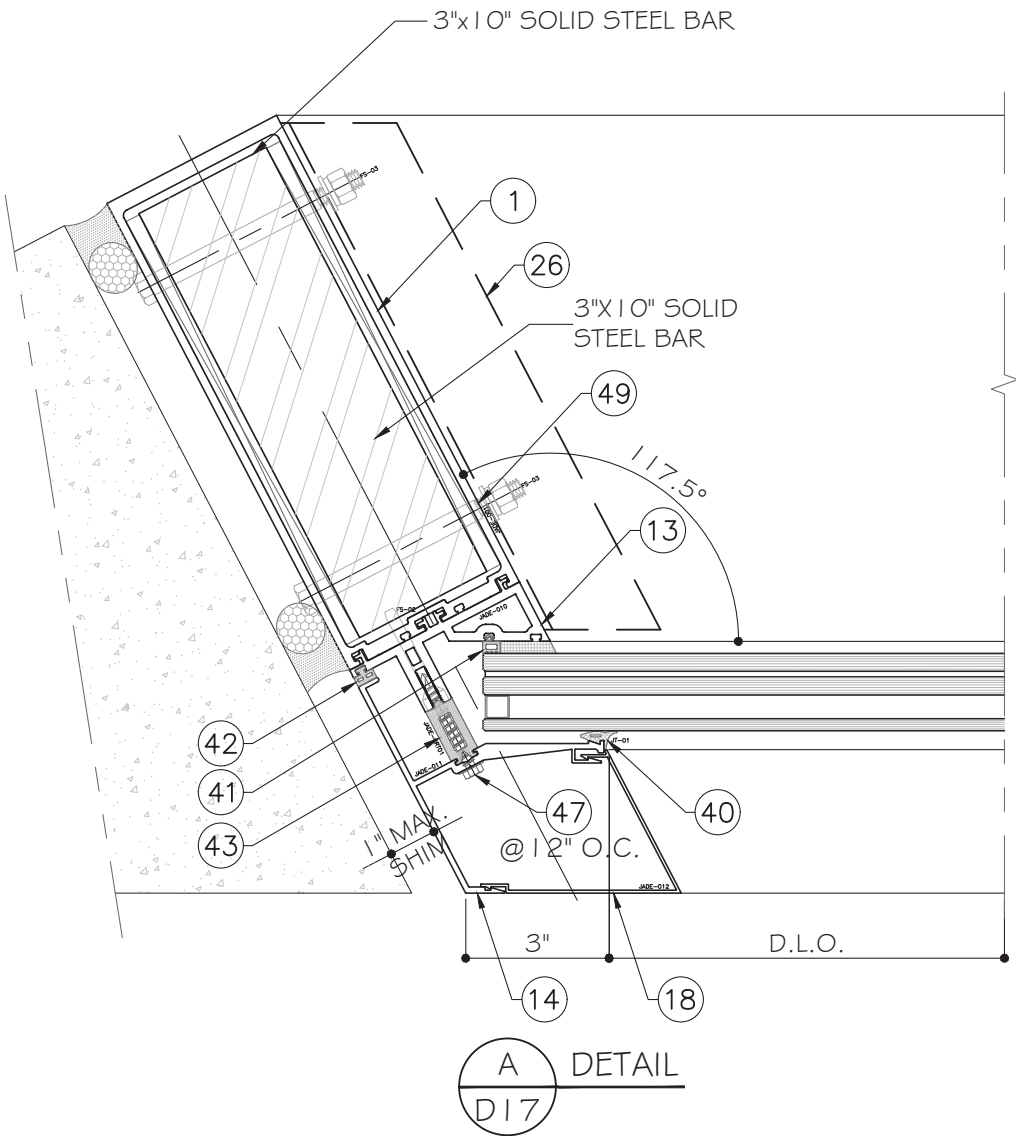
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D17

DRAWN: James	SHEET No:
DATE: 08/11/23	26 OF 40
DWG: AD16-21	





4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 28677

August 11th, 2023

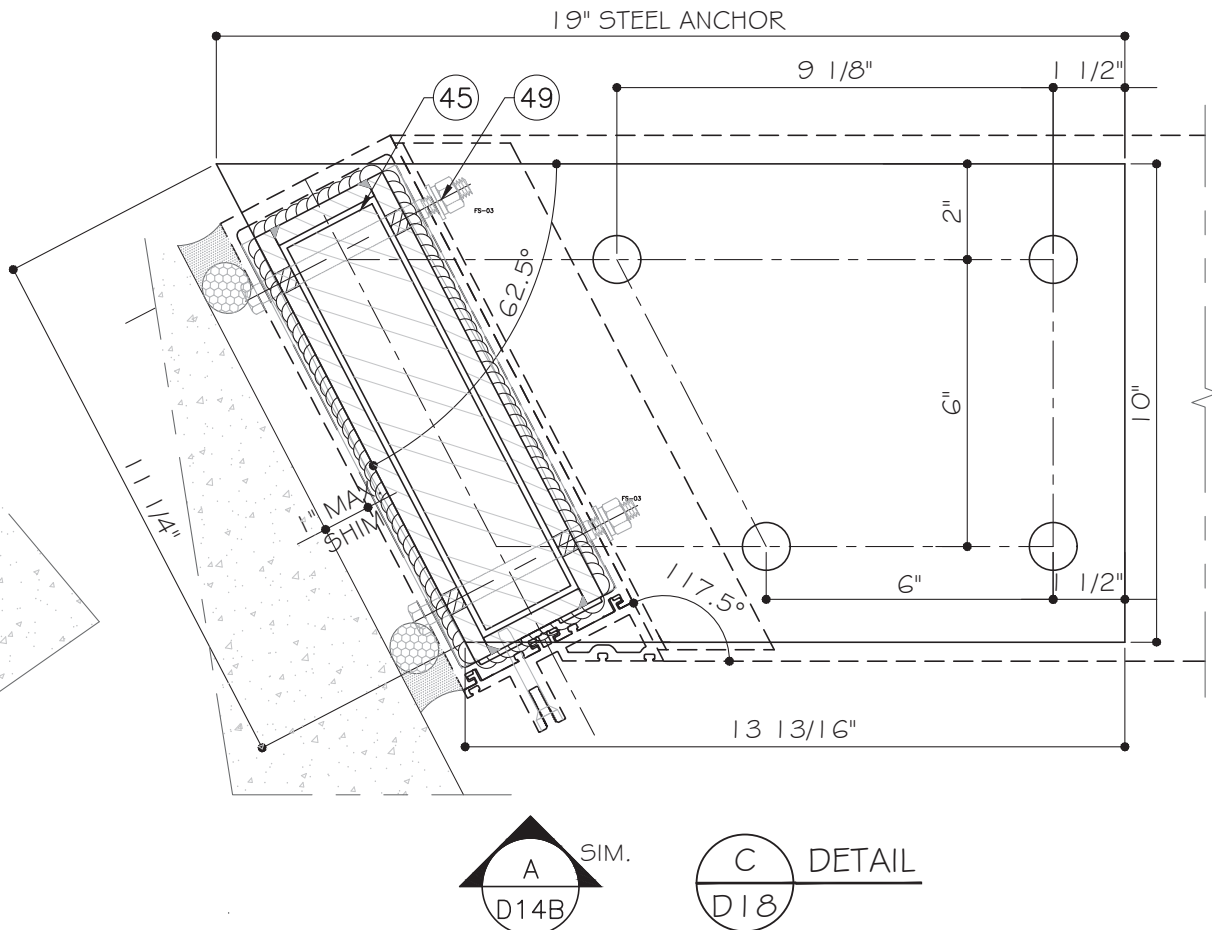
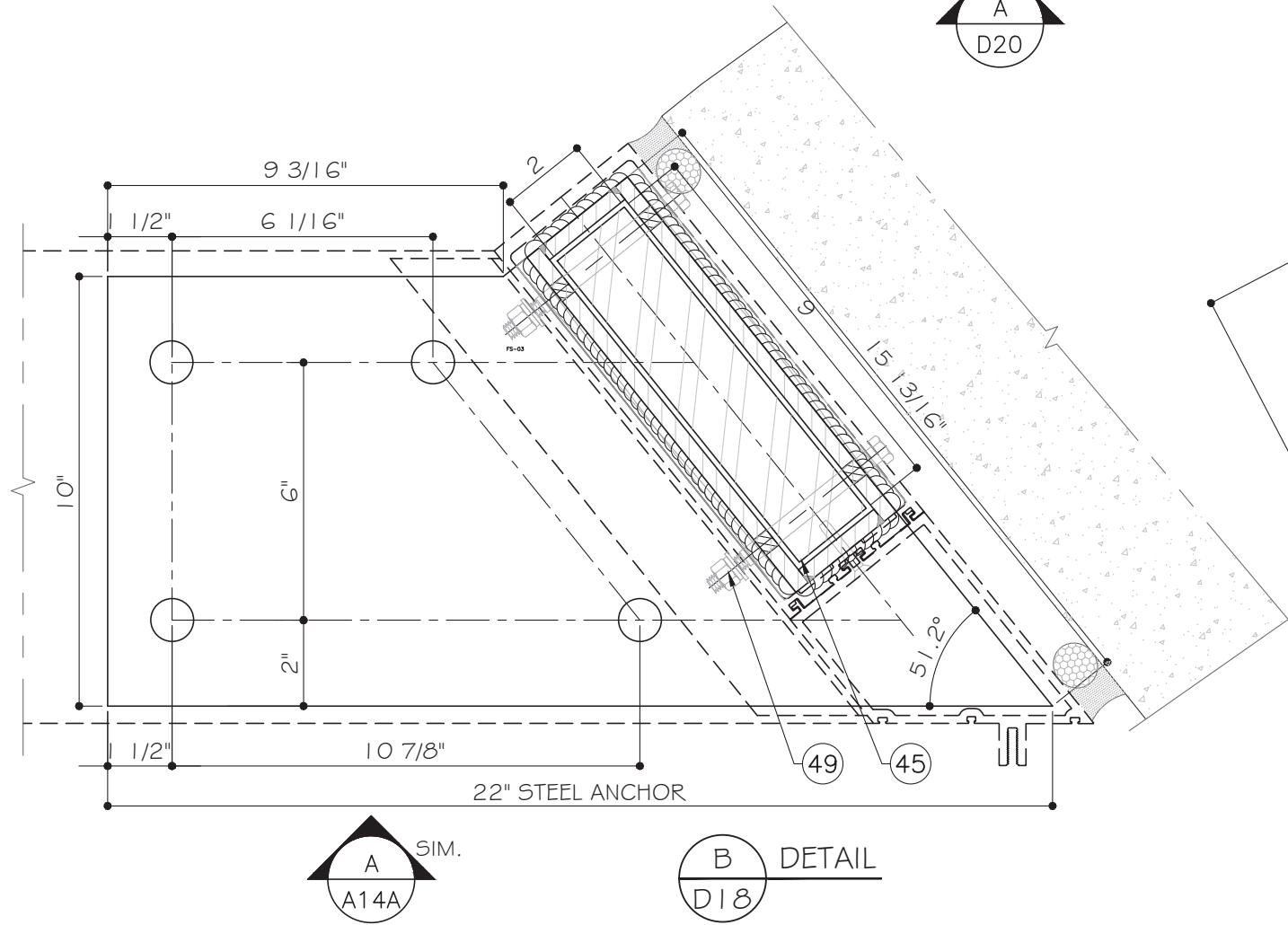
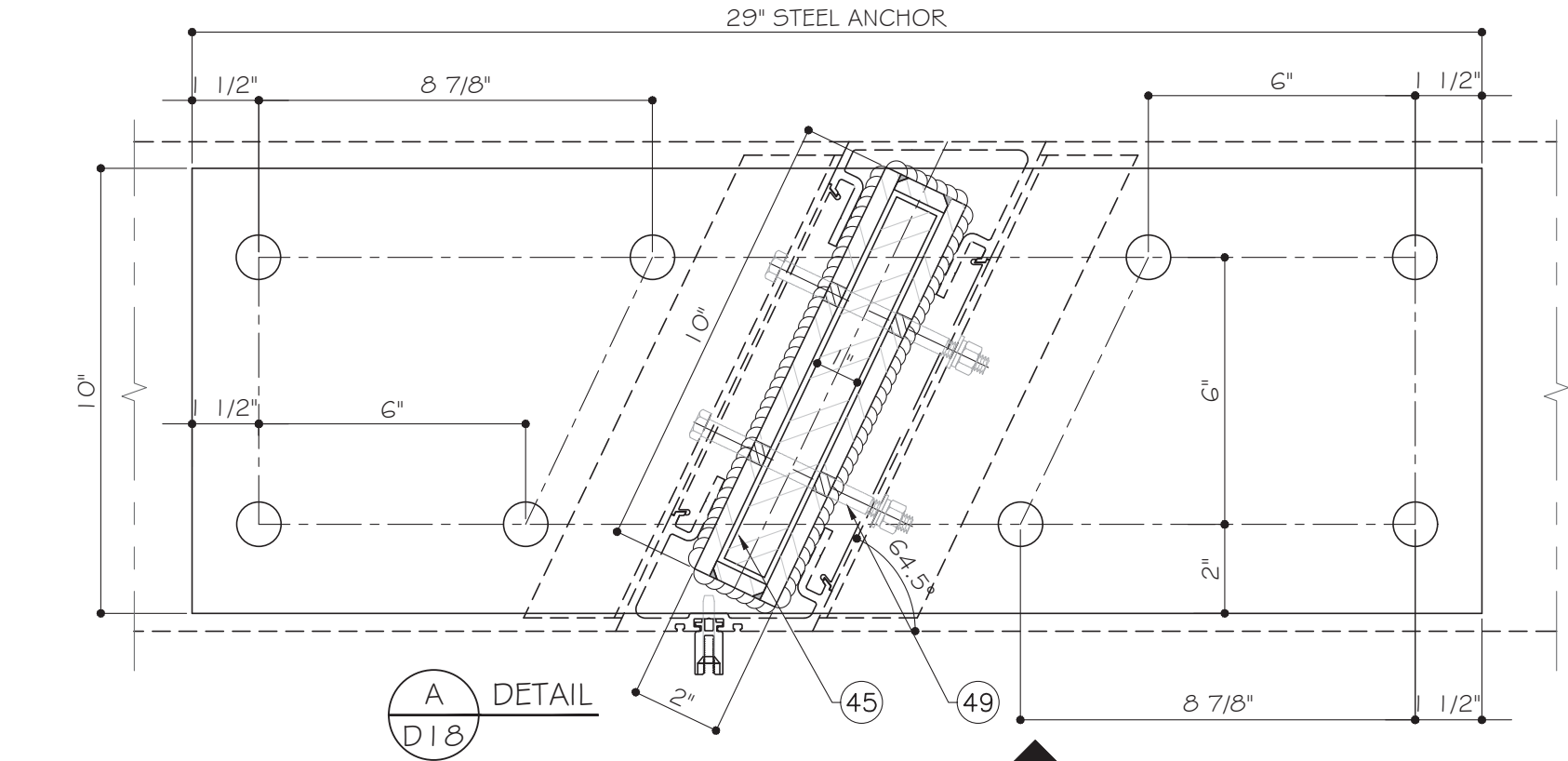
FLORIDA APPROVAL:

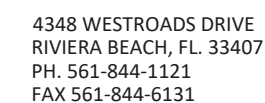
FL #20765

SHEET TITLE:

D18

DRAWN: James	SHEET No:
DATE: 08/11/23	27 OF 40
DWG: AD16-21	





Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023



MACY'S

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL # 55283
C.A.N. 28677

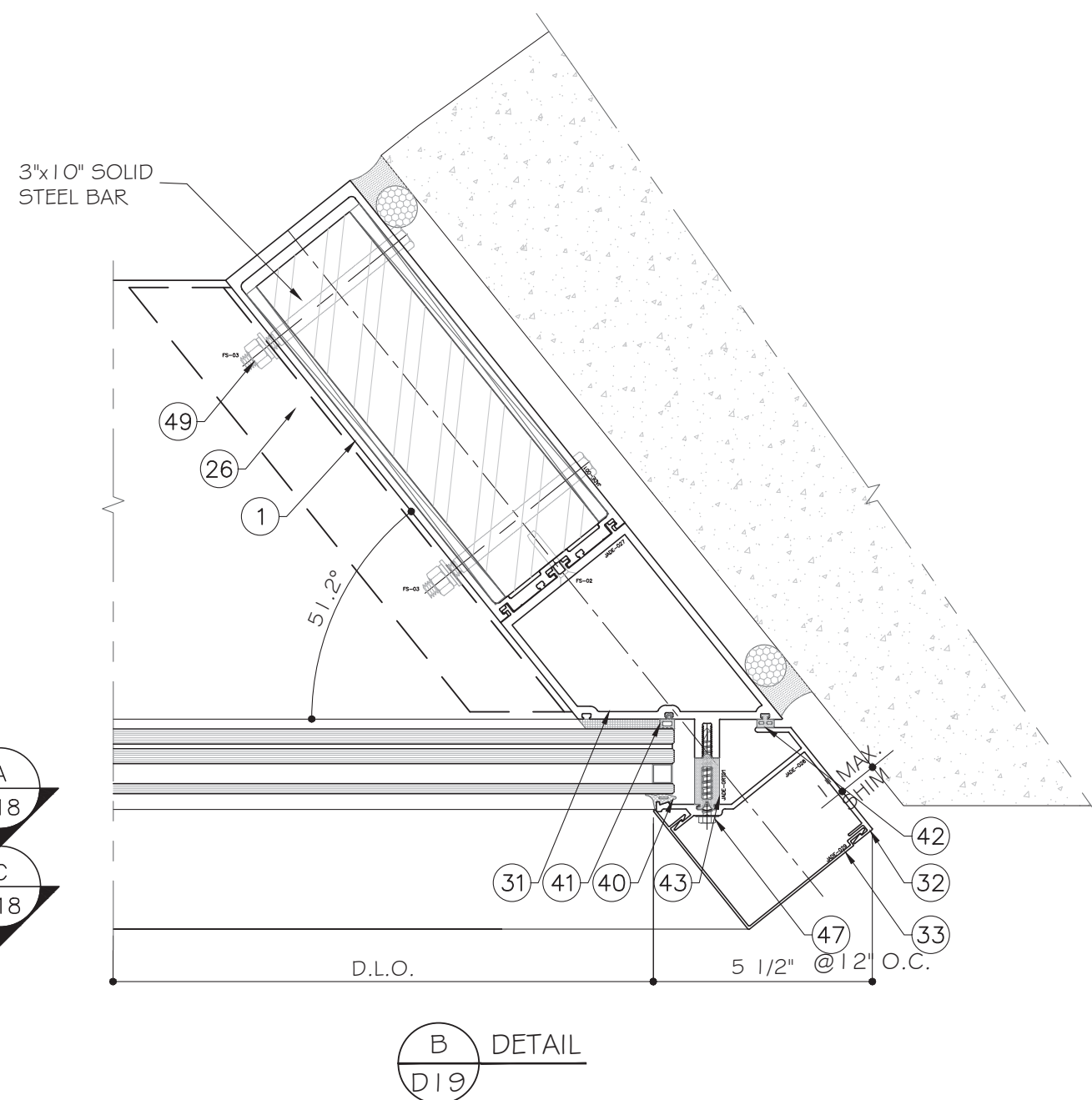
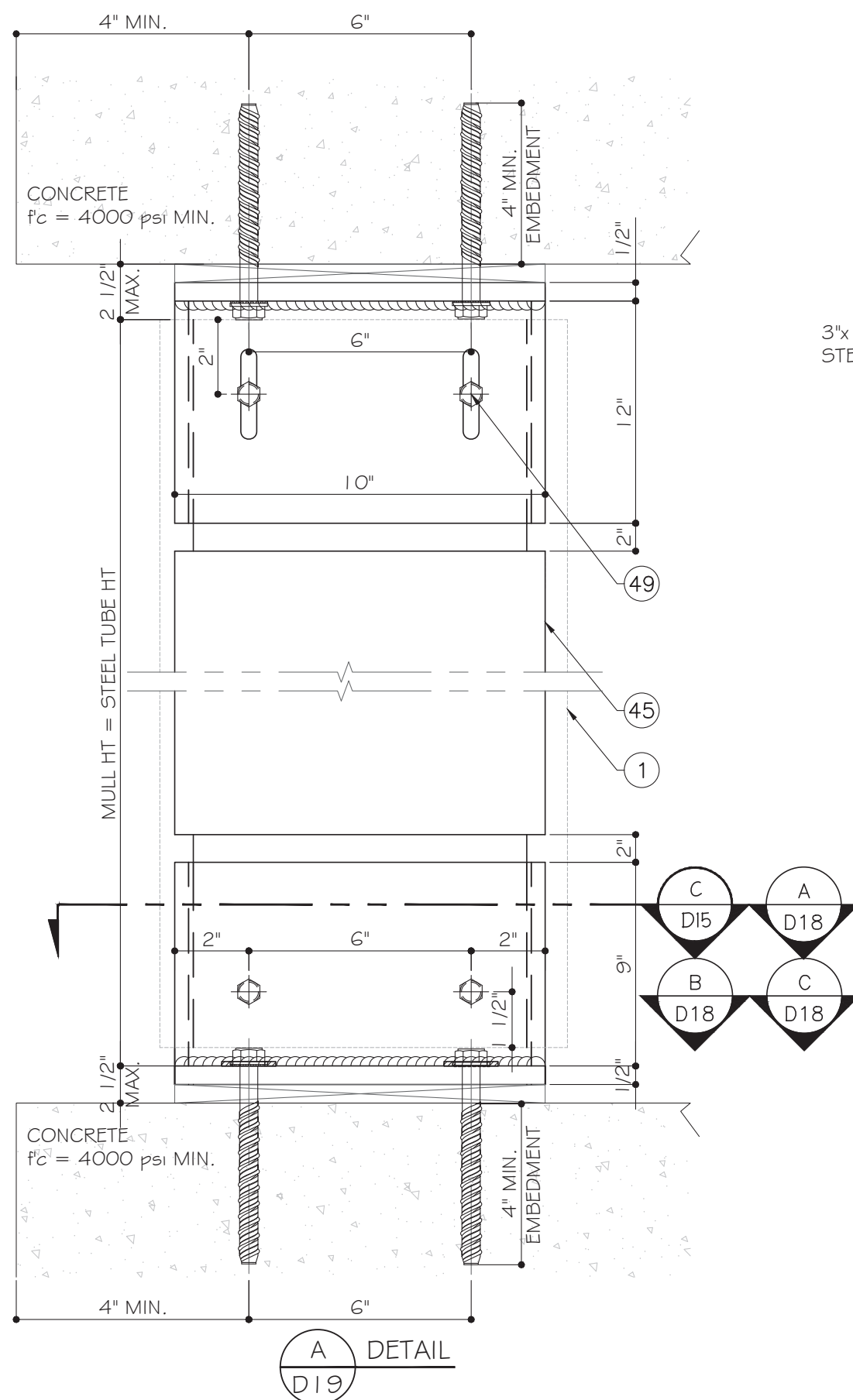


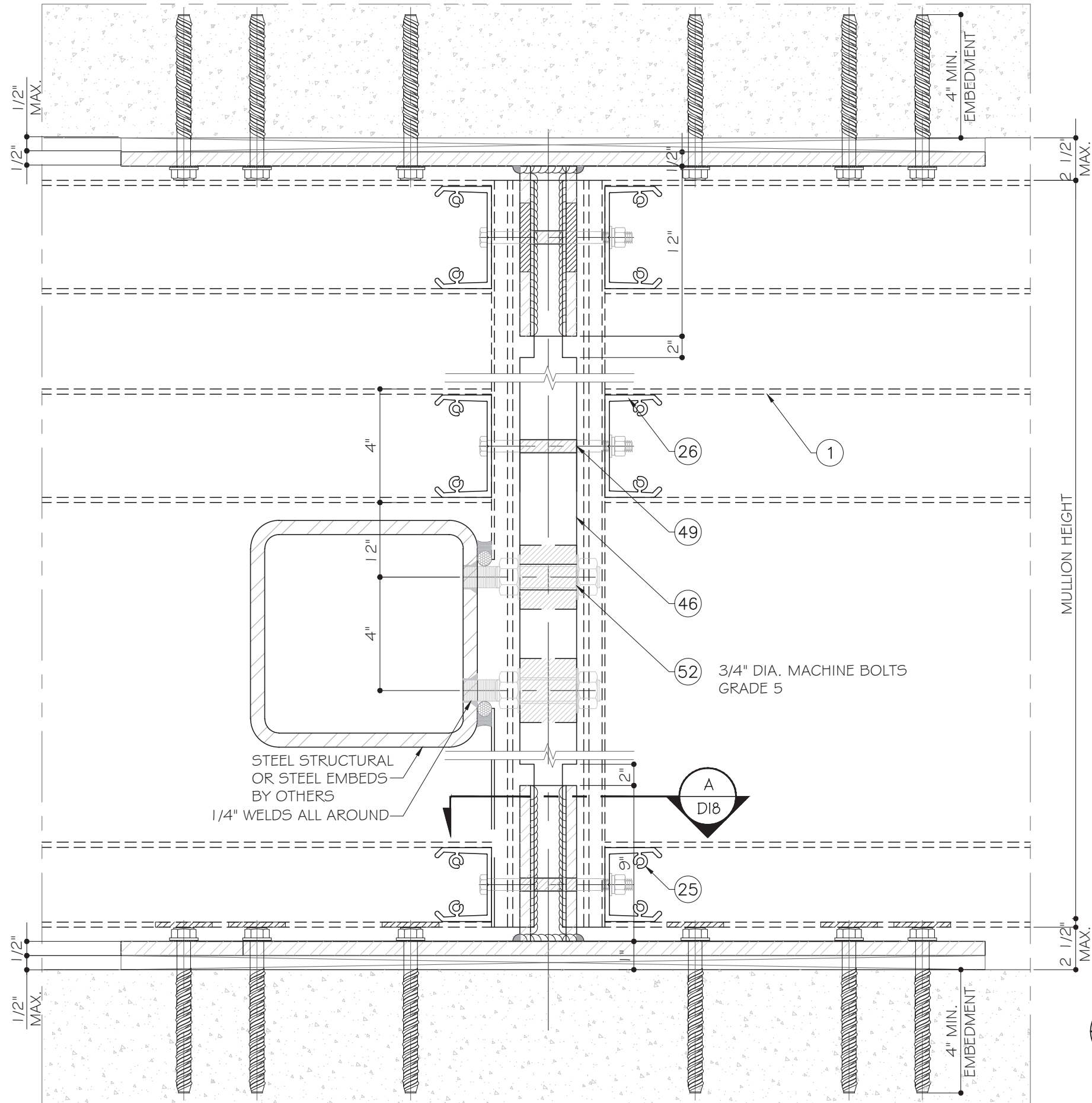
August 11th, 2023

FL #20765

D19

DRAWN: James	SHEET No: 28 OF 40
DATE: 08/11/23	
DWG: AD16-21	





A
D20

DETAIL



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D20

DRAWN: James	SHEET No:
DATE: 08/11/23	29 OF 40
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

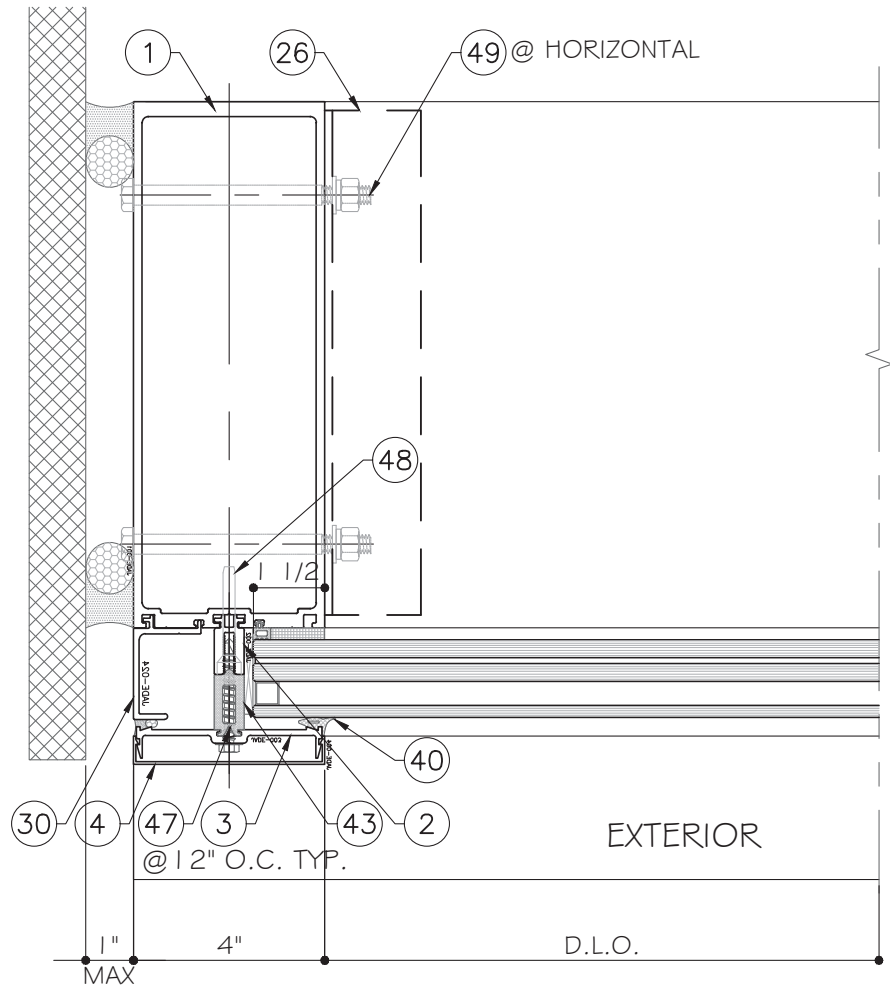
FLORIDA APPROVAL:

FL #20765

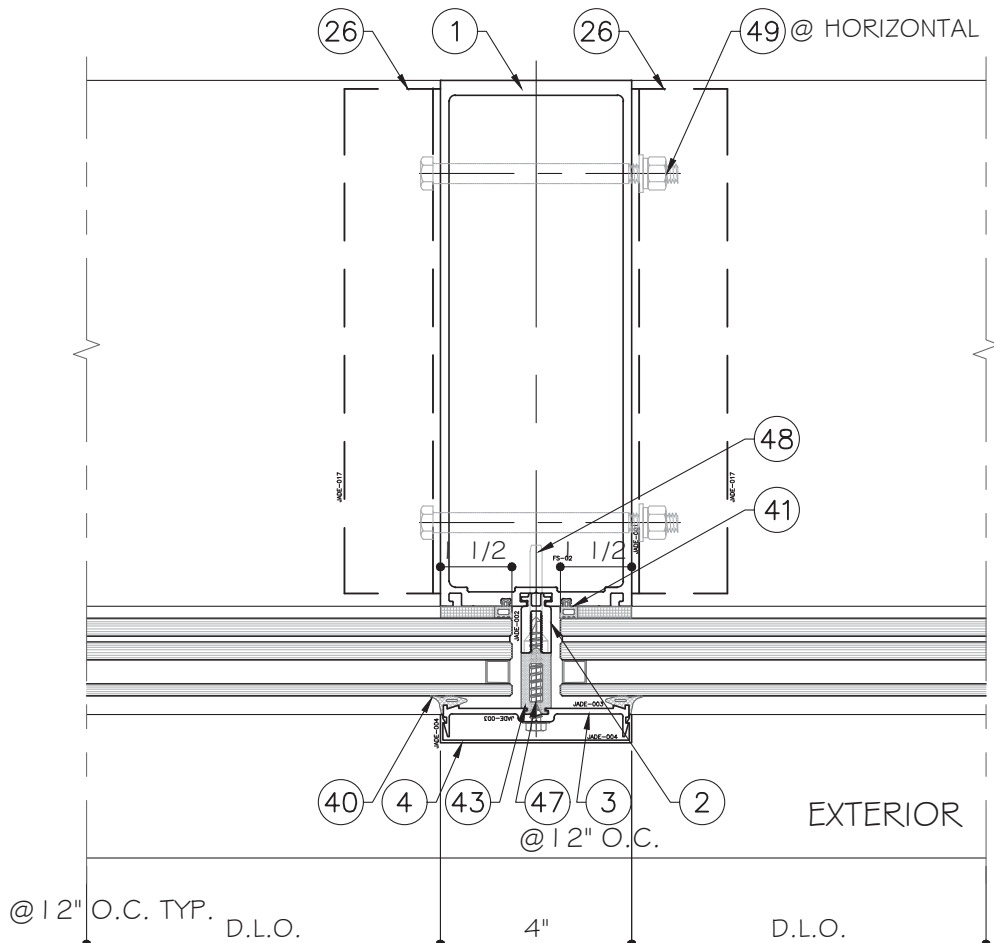
SHEET TITLE:

D21

DRAWN: James	SHEET No:
DATE: 08/11/23	30 OF 40
DWG: AD16-21	



A
D21
DETAIL



B
D21
DETAIL



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT
12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

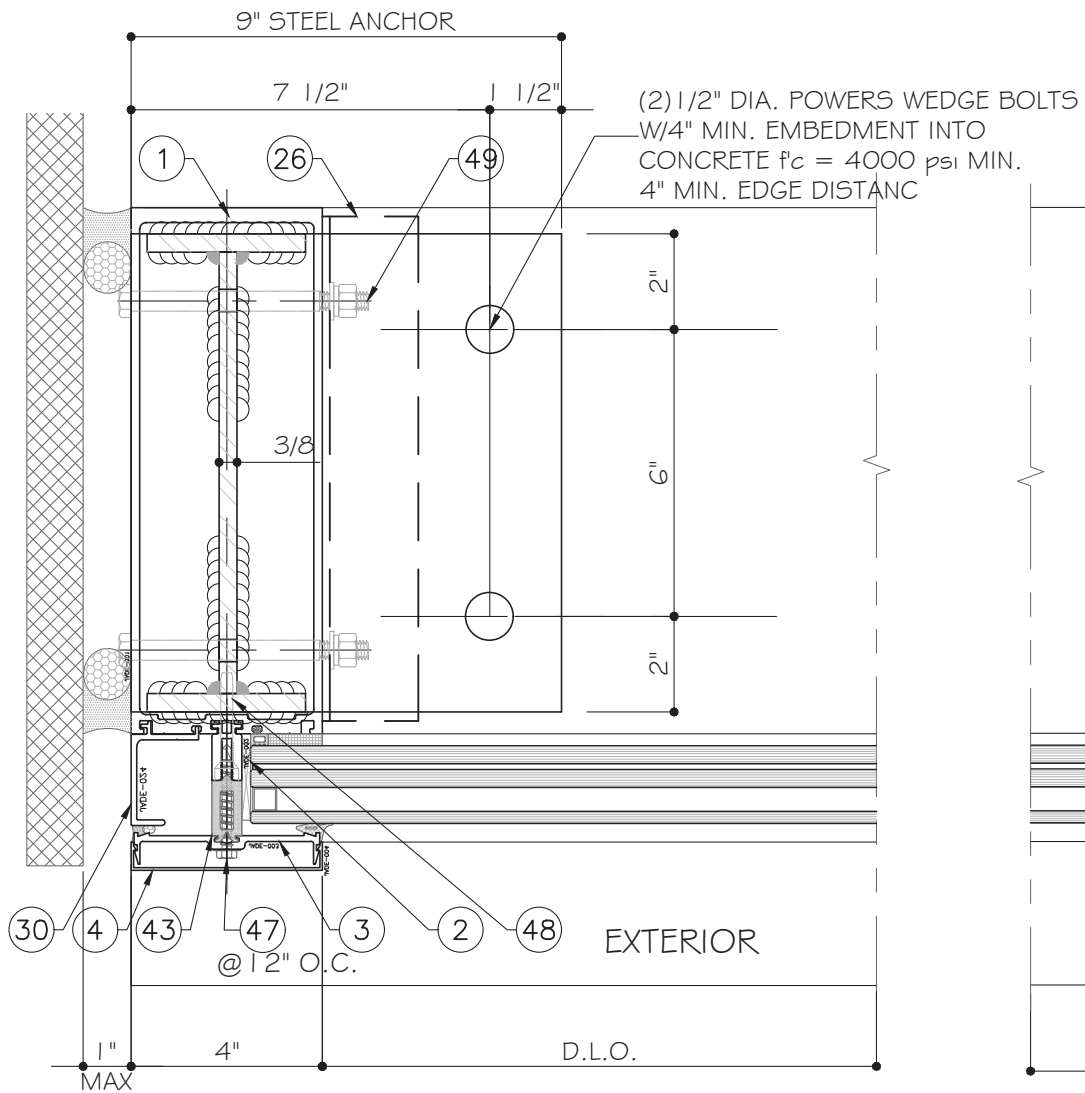
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

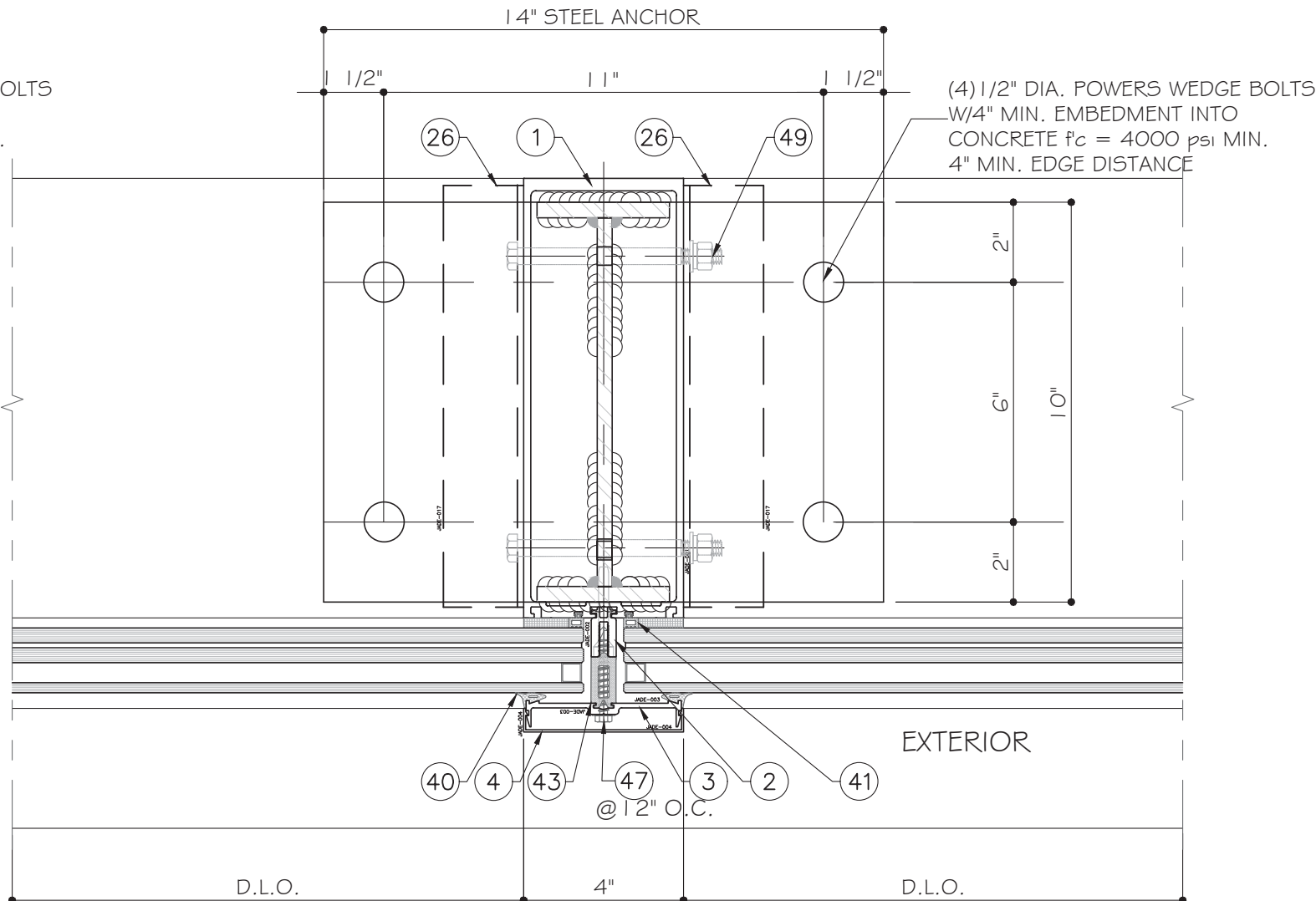
D21A

DRAWN: James	SHEET No:
DATE: 08/11/23	31 OF 40
DWG: AD16-21	



A ANCHOR DETAIL
D21A

MAX. ALLOW. END REACTION:
 $R_{max} = 2830 \text{ LBF}$



B ANCHOR DETAIL
D21A

MAX. ALLOW. END REACTION:
 $R_{max} = 5660 \text{ LBF}$



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

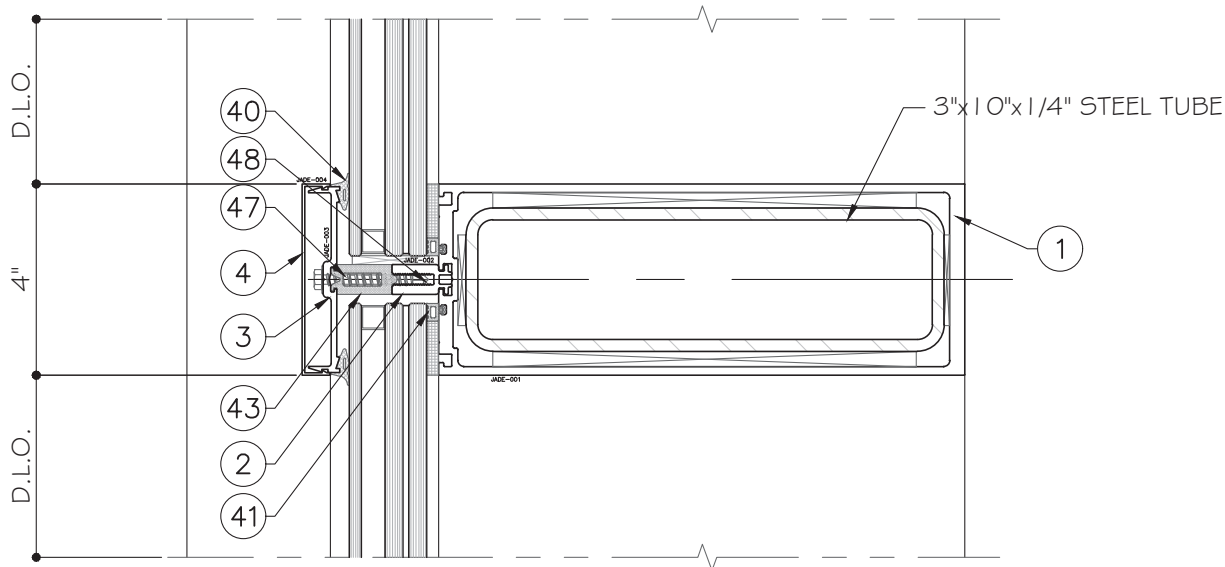
FLORIDA APPROVAL:

FL #20765

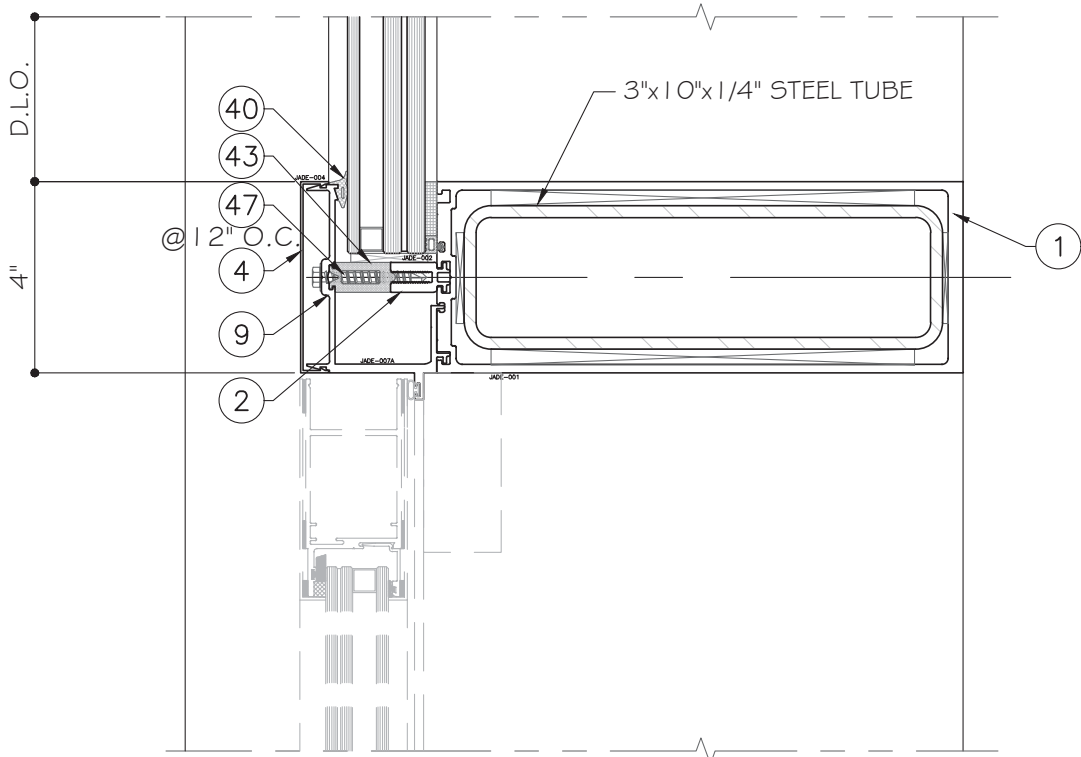
SHEET TITLE:

D22

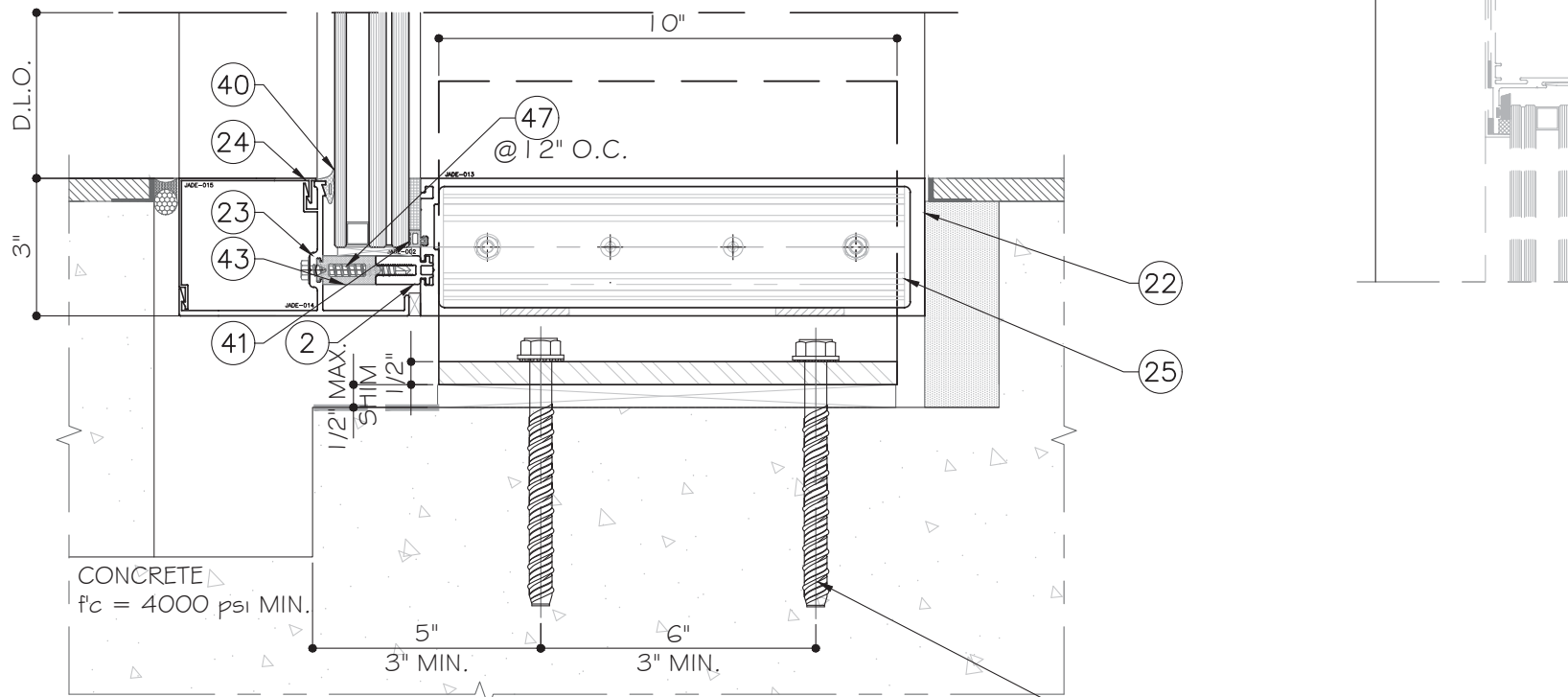
DRAWN: James	SHEET No:
DATE: 08/11/23	32 OF 40
DWG: AD16-21	



A DETAIL
D22



C DETAIL
D22



B DETAIL
D22

5/16" ULTRACON W/ 1 3/4" EMBED
INTO CONCRETE



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:

YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 28677

August 11th, 2023

FLORIDA APPROVAL:

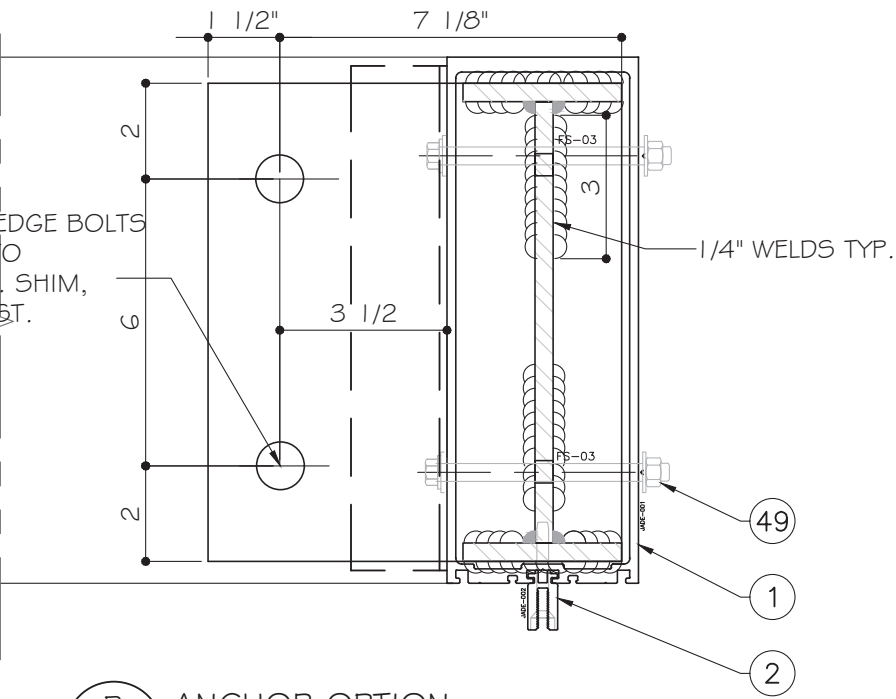
FL #20765

SHEET TITLE:

D23

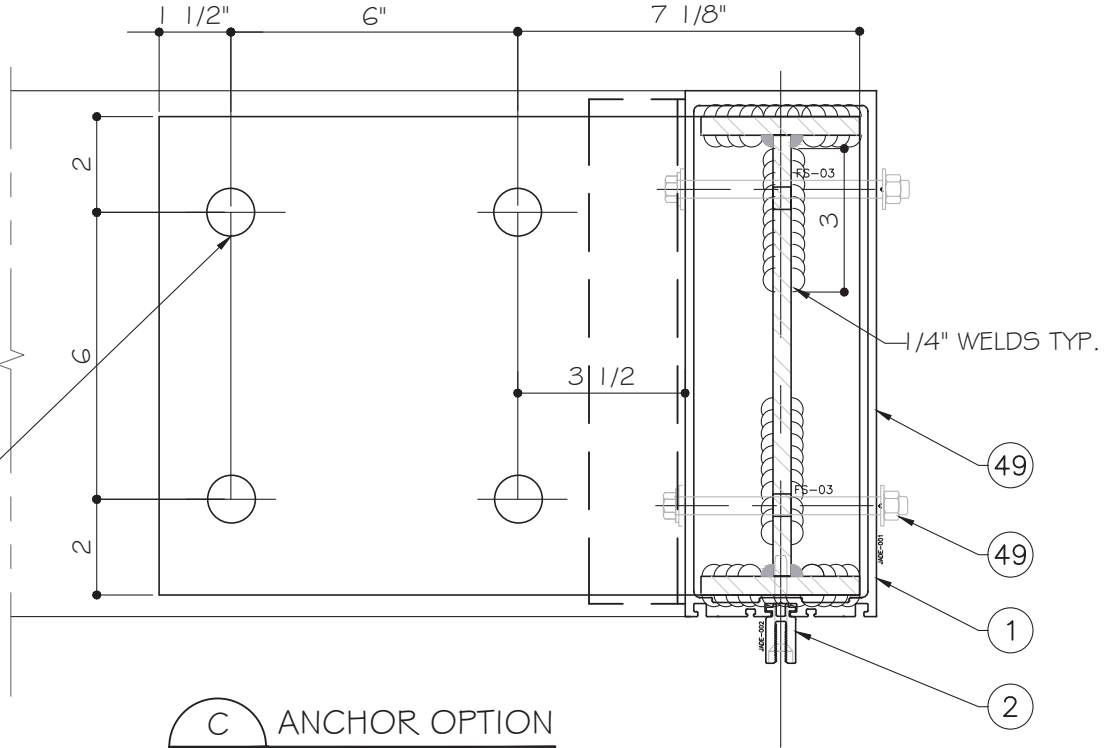
DRAWN: James	SHEET No:
DATE: 08/11/23	33 OF 40
DWG: AD16-21	

1/2" DIA. POWERS WEDGE BOLTS
W/ 2 1/2" EMBED INTO
CONCRETE 1/2" MAX. SHIM,
3 3/4" MIN. EDGE DIST.



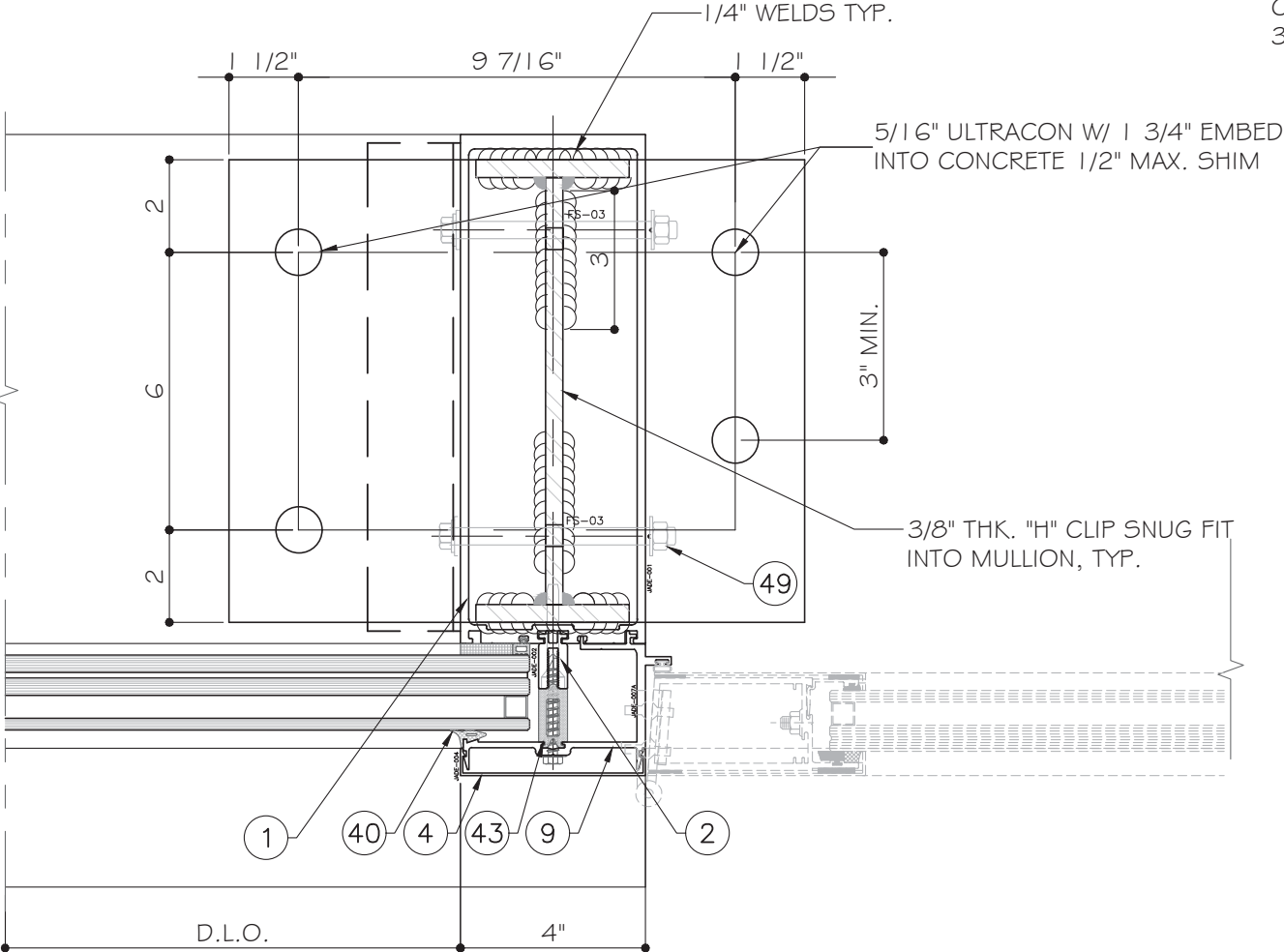
B ANCHOR OPTION
D23 AT DOOR JAMB MULLION

MAX. ALLOW. END REACTION:
 $R_{max} = 2150 \text{ LBF}$



C ANCHOR OPTION
D23 AT DOOR JAMB MULLION

MAX. ALLOW. END REACTION:
 $R_{max} = 5660 \text{ LBF}$



A DETAIL
D23

MAX. ALLOW. END REACTION:
 $R_{max} = 1865 \text{ LBF}$

(4) 1/2" DIA. POWERS WEDGE
BOLTS W/ 4" EMBED INTO
CONCRETE,
4" MIN. EDGE DISTANCE
1/2" MAX. SHIM



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

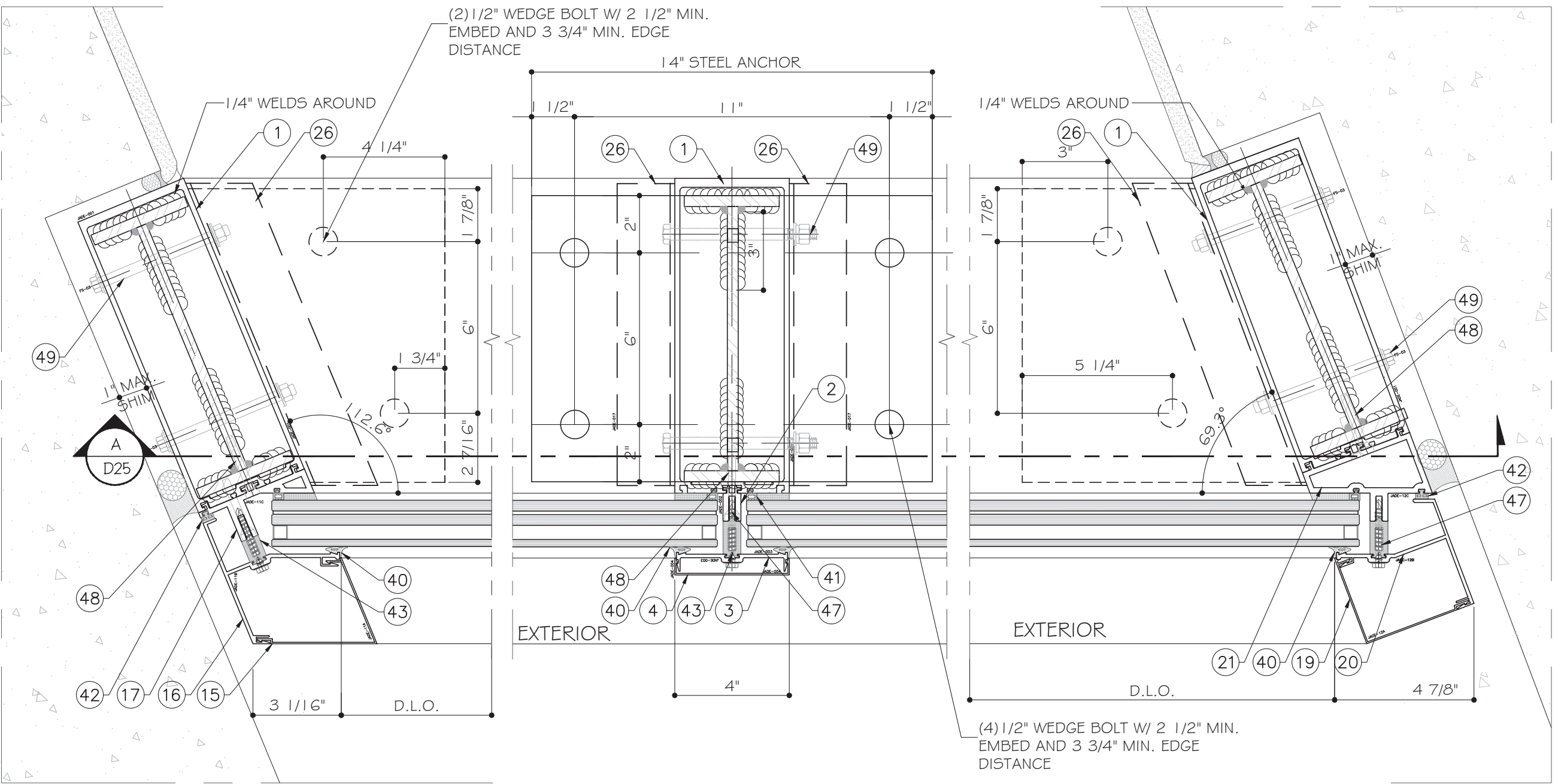
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D24

DRAWN: James	SHEET No:
DATE: 08/11/23	34 OF 40
DWG: AD16-21	



A HEAD ANCHOR DETAIL
D24

MAX. ALLOW. END REACTION:
 $R_{max} = 2156 \text{ LBF}$

B HEAD ANCHOR DETAIL
D24

MAX. ALLOW. END REACTION:
 $R_{max} = 4313 \text{ LBF}$

C HEAD ANCHOR DETAIL
D24

MAX. ALLOW. END REACTION:
 $R_{max} = 2156 \text{ LBF}$



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

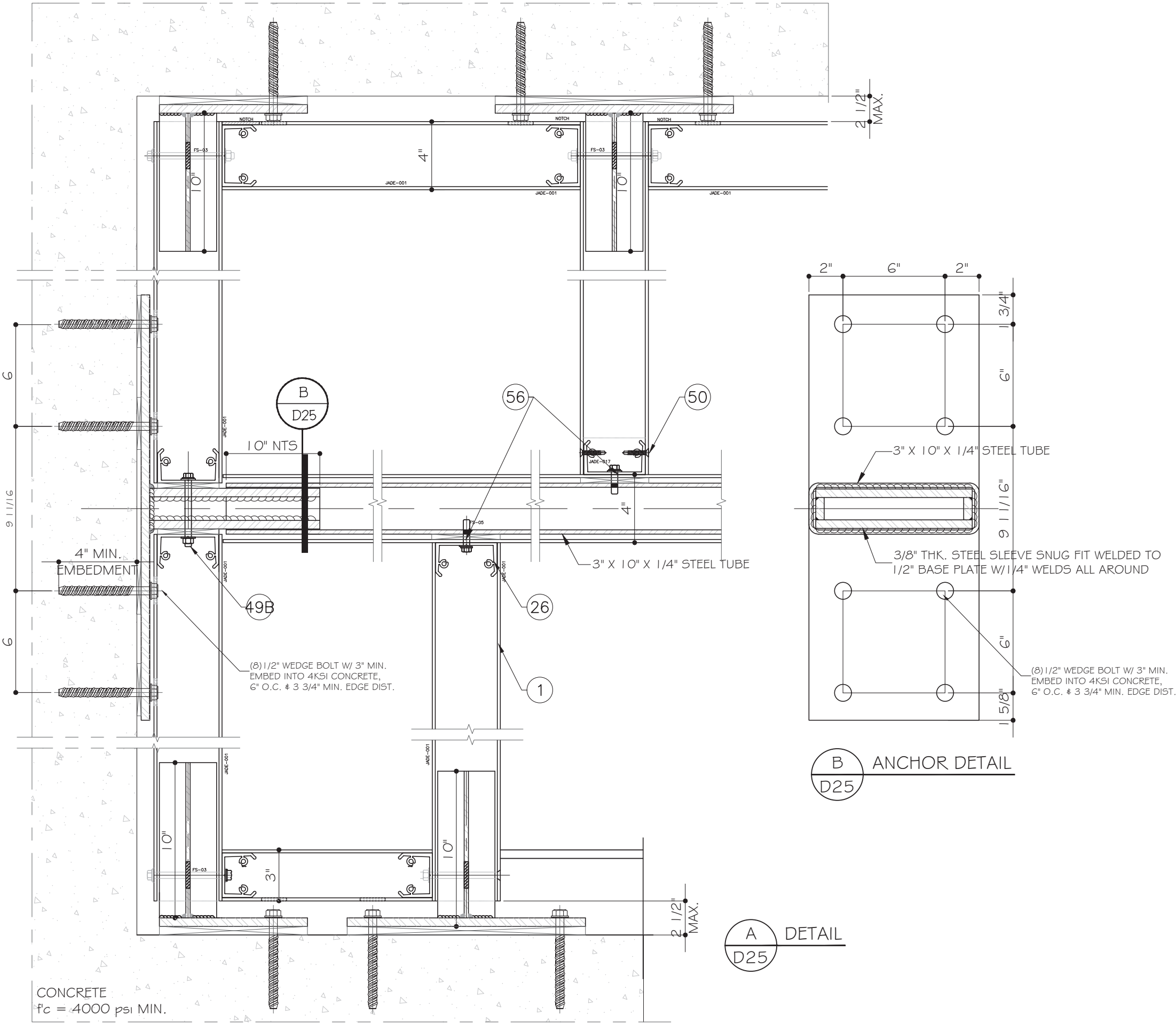
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D25

DRAWN: James	SHEET No:
DATE: 08/11/23	35 OF 40
DWG: AD16-21	





4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT
12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



August 11th, 2023

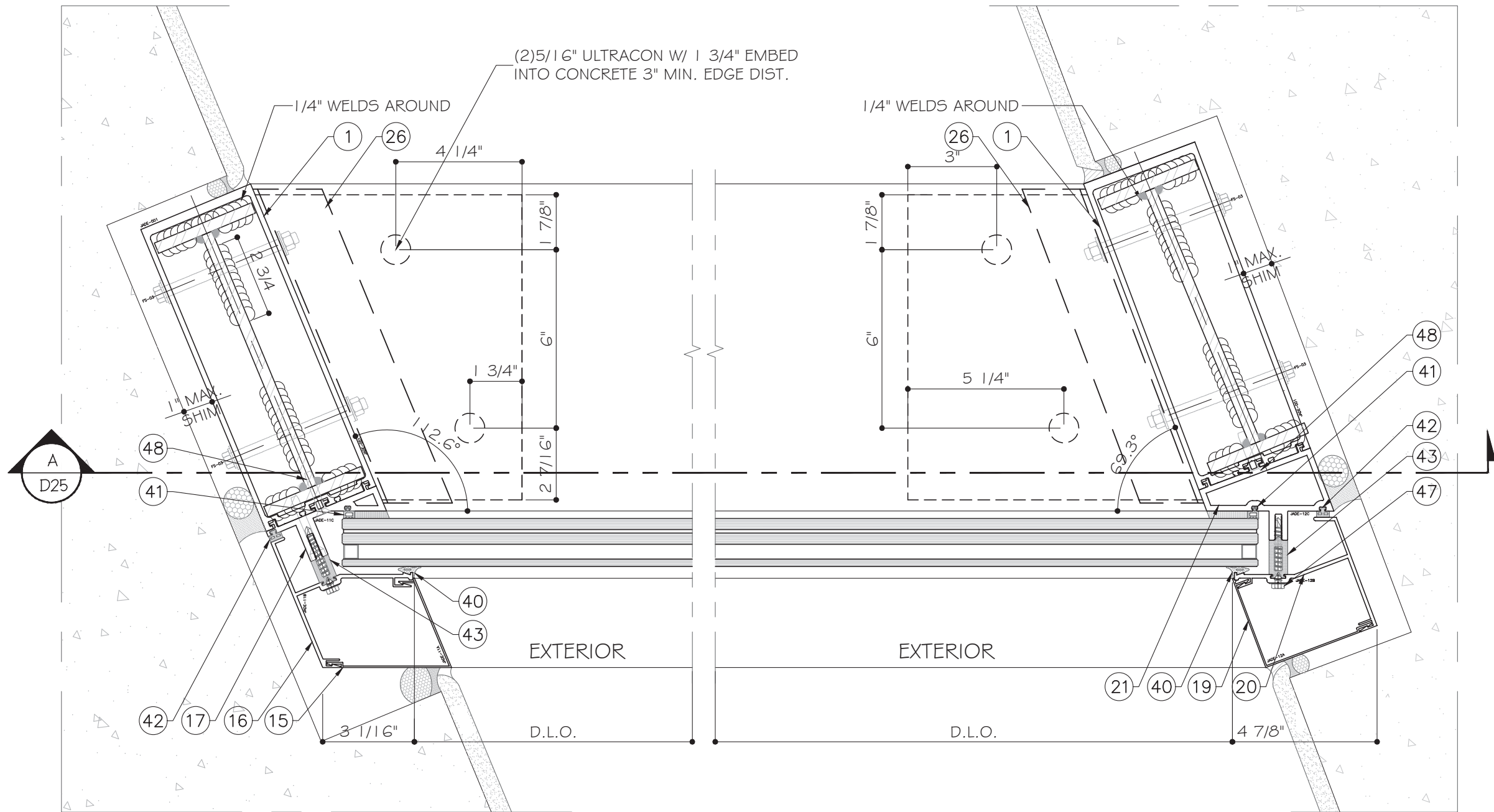
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

D26

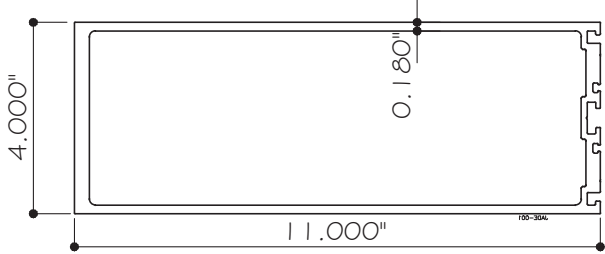
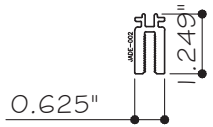
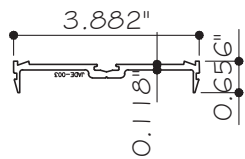
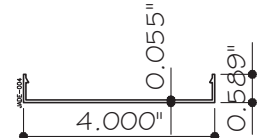
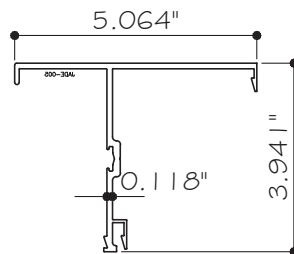
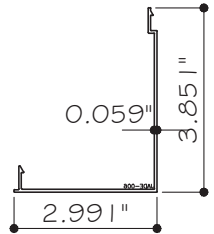
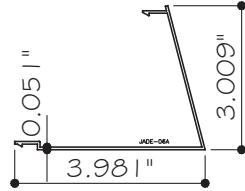
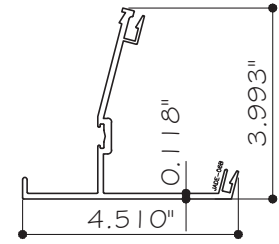
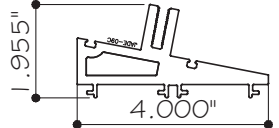
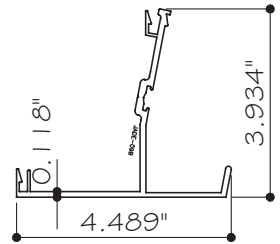
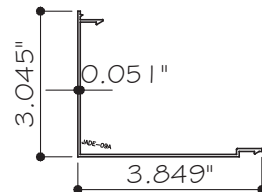
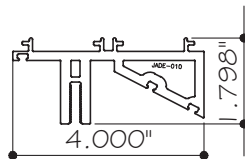
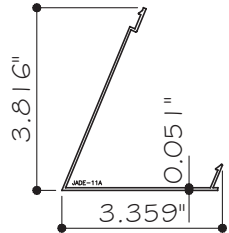
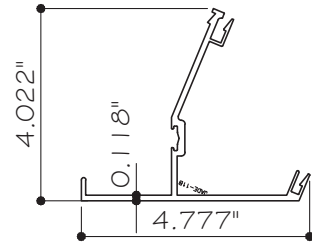
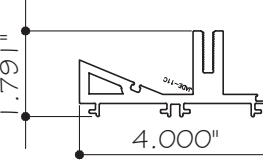
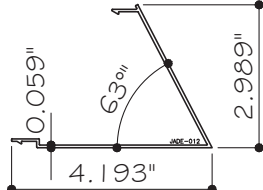
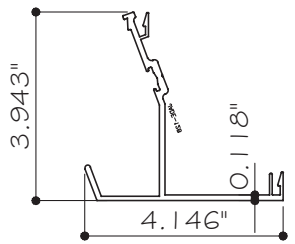
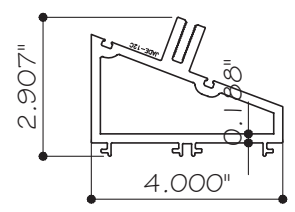
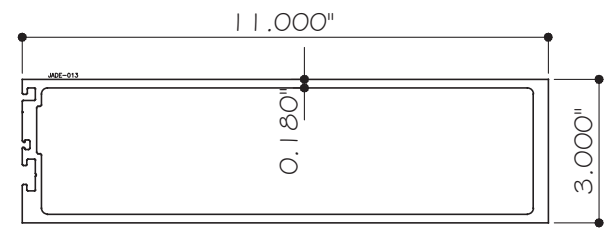
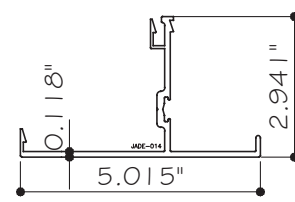
DRAWN: James	SHEET No:
DATE: 08/11/23	36 OF 40
DWG: AD16-21	



A ANCHOR DETAIL
D26

B ANCHOR DETAIL
D26

MAX. ALLOW. END REACTION:
 $R_{max} = 1166 \text{ LBF}$

 ① HORIZONTAL & VERTICAL MULLION/HEAD/SILL JADE-001 ALUMINUM 6063-T6	 ② MULLION ADAPTOR JADE-002 ALUMINUM 6063-T6	 ③ PRESSURE BAR JADE-003 ALUMINUM 6063-T6	 ④ COVER CAP JADE-004 ALUMINUM 6063-T6
 ⑤ PRESSURE BAR JADE-005 ALUMINUM 6063-T6	 ⑥ COVER CAP JADE-006 ALUMINUM 6063-T6	 ⑦ COVER CAP JADE-06A ALUMINUM 6063-T6	 ⑧ PRESSURE BAR JADE-06B ALUMINUM 6063-T6
 ⑩ MULLION ADAPTOR JADE-09C ALUMINUM 6063-T6	 ⑪ PRESSURE BAR JADE-09B ALUMINUM 6063-T6	 ⑫ COVER CAP JADE-09A ALUMINUM 6063-T6	 ⑬ MULLION ADAPTOR JADE-010 ALUMINUM 6063-T6
 ⑮ COVER CAP JADE-11A ALUMINUM 6063-T6	 ⑯ PRESSURE BAR JADE-11B ALUMINUM 6063-T6	 ⑰ MULLION ADAPTOR JADE-11C ALUMINUM 6063-T6	 ⑱ COVER CAP JADE-012 ALUMINUM 6063-T6
 ⑳ PRESSURE BAR JADE-12B ALUMINUM 6063-T6	 ㉑ MULLION ADAPTOR JADE-12C ALUMINUM 6063-T6	 ㉒ VERTICAL CORNER MULLION JADE-013 ALUMINUM 6063-T6	 ㉓ PRESSURE BAR JADE-014 ALUMINUM 6063-T6



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series

CW-1100 ALUMINUM

CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.N. 28677

August 11th, 2023

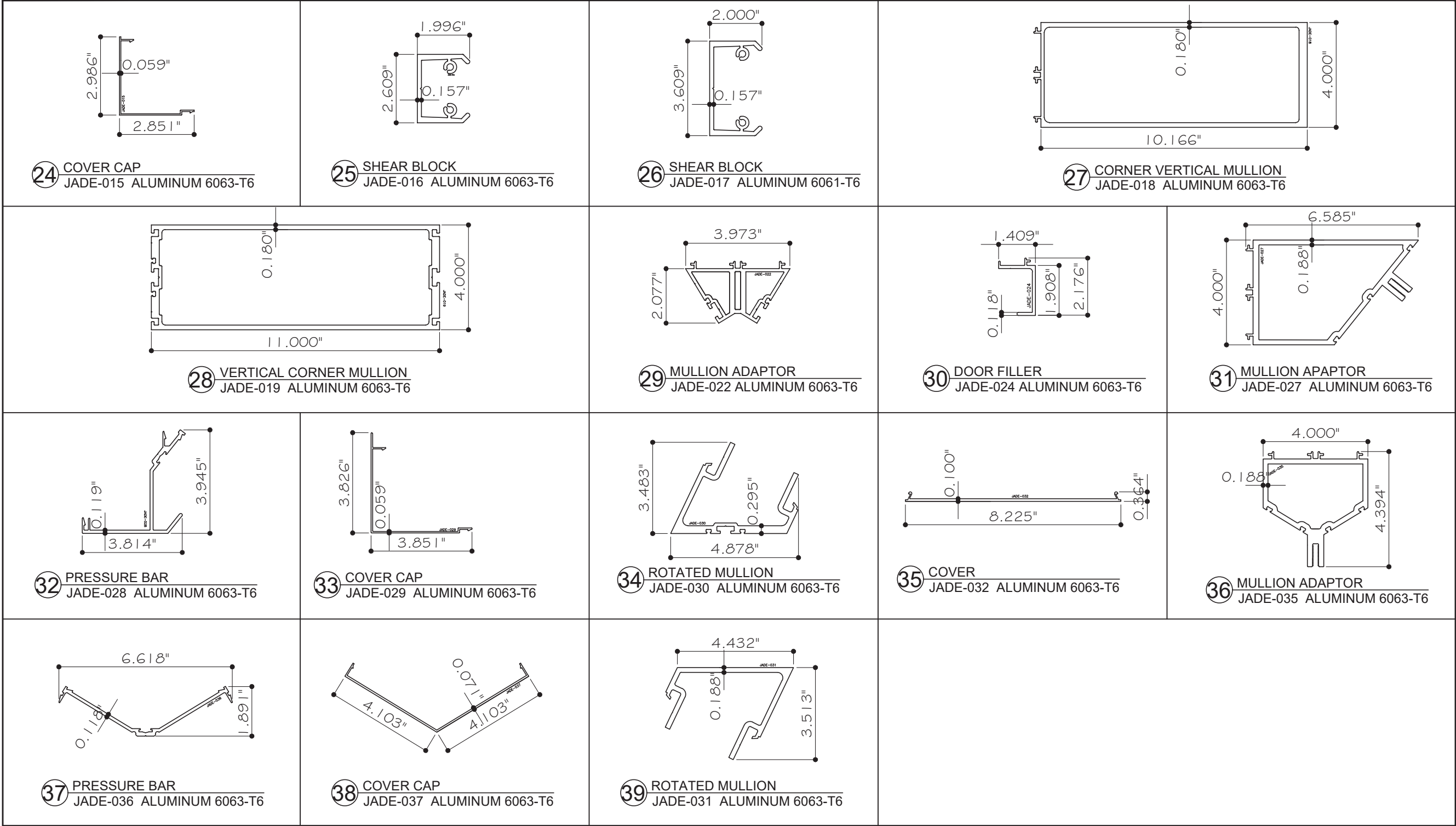
FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

PARTS

DRAWN: James	SHEET No:
DATE: 08/11/23	37 OF 40
DWG: AD16-21	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:

MCY ENGINEERING, INC.
GLAZING CONSULTANT
12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:

YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.N. 28677
August 11th, 2023

FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

PARTS

DRAWN: James	SHEET No:
DATE: 08/11/23	38 OF 40
DWG: AD16-21	

BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
1	JADE-001	HORIZONTAL & VERTICAL MULLION/HEAD/SILL	6063-T6	
2	JADE-002	MULLION ADAPTOR	6063-T6	
3	JADE-003	PRESSURE BAR	6063-T6	
4	JADE-004	COVER CAP	6063-T6	
5	JADE-005	PRESSURE BAR	6063-T6	
6	JADE-006	COVER CAP	6063-T6	
7	JADE-006A	COVER CAP	6063-T6	
8	JADE-006B	PRESSURE BAR	6063-T6	
9	JADE-007A	PRESSURE BAR	6063-T6	
10	JADE-009C	MULLION ADAPTOR	6063-T6	
11	JADE-009B	PRESSURE BAR	6063-T6	
12	JADE-009A	COVER CAP	6063-T6	
13	JADE-010	MULLION ADAPTOR	6063-T6	
14	JADE-011	PRESSURE BAR	6063-T6	
15	JADE-11A	COVER CAP	6063-T6	
16	JADE-11B	PRESSURE BAR	6063-T6	
17	JADE-11C	MULLION ADAPTOR	6063-T6	
18	JADE-012	COVER CAP	6063-T6	
19	JADE-12A	COVER CAP	6063-T6	
20	JADE-12B	PRESSURE BAR	6063-T6	
21	JADE-12C	MULLION ADAPTOR	6063-T6	
22	JADE-013	VERTICAL CORNER MULLION	6063-T6	
23	JADE-014	PRESSURE BAR	6063-T6	
24	JADE-015	COVER CAP	6063-T6	
25	JADE-016	SHEAR BLOCK	6063-T6	
26	JADE-017	SHEAR BLOCK	6061-T6	
27	JADE-018	CORNER VERTICAL MULLION	6063-T6	
28	JADE-019	CORNER VERTICAL MULLION	6063-T6	
29	JADE-022	MULLION ADAPTOR	6063-T6	
30	JADE-024	DOOR FILLER	6063-T6	
31	JADE-027	MULLION ADAPTOR	6063-T6	
32	JADE-028	PRESSURE BAR	6063-T6	
33	JADE-029	COVER CAP	6063-T6	
34	JADE-030	ROTATED MULLION	6063-T6	
35	JADE-032	COVER	6063-T6	
36	JADE-035	MULLION ADAPTOR	6063-T6	
37	JADE-036	PRESSURE BAR	6063-T6	
38	JADE-037	COVER CAP	6063-T6	



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



YIPING WANG, P.E.
FLORIDA REGISTRATION
FL #55983
C.A.N. 28677

August 11th, 2023

FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

BOM

DRAWN: James	SHEET No:
DATE: 08/11/23	39 OF 40
DWG: AD16-21	

BILL OF MATERIALS				
ITEM	PART	DESCRIPTION	MATERIAL	REMARKS
39	JADE-031	ROTATED MULLION	6063-T6	
40	JT-01	WEDGE GASKET	EPDM - DURO 60 +/- 5	
41	JT-02	GASKET	EPDM - DURO 60 +/- 5	
42	JT-03	GASKET	EPDM - DURO 60 +/- 5	
43	GRT-01	THERMAL BREAK	PA66 GF25	
44	R1	3"X10"X3/8" STEEL TUBE	A50 STEEL	
45	R2	3"X10" SOLID STEEL BAR	A36 STEEL	
46	R3	2" X 10" SOLID STEEL BAR	A36 STEEL	
47	FS-01	SELF-DRILLING SCREW ST6.3X55 @12" O.C.	S.S. 316	
48	FS-02	SELF-DRILLING SCREW ST6.3X50 @12" O.C.	S.S. 316	
49	FS-03	STAINLESS STEEL BOLT M10X130 W/WASHER & NUT	S.S. 316	
49A	FS-03A	F.H. S.S. BOLT M10X130 W/ WASHER & NUT (FOR DOOR)	S.S. 316	
49B	FS-03B	(2) M10 X 90 S.S. BOLT W/ WASHER & NUTS	S.S. 316	
50	FS-04	SELF-DRILLING SCREW ST6.3X38	S.S. 316	JADE001 W/ JADE017
51	FS-05	SELF-DRILLING SCREW ST6.3X32 @ 8" O.C.	S.S. 316	STEEL BAR W/ JADE030
52	FS-06	MACHINE BOLT M20X65	SS 316 OR GRADE 5	ROTATED MULLION
53	FS-07	STAINLESS STEEL BOLT M6X20	S.S. 316	STEEL PLATE & STEEL TUBES
54	FS-08	SELF-DRILLING SCREW ST4.8X19	S.S. 316	BRK. METAL & ANGLES
55	FS-09	ANCHORS FOR CONCRETE 1/2"X5" POWERS WEDGE BOLT	S.S. 316	
56	FS-10	M10 X 90 S.S. BOLT W/ WASHER & NUT	S.S. 316	
57	-	1/4" X 3/16" DOUBLE SIDE TAPE	S.S. 316	
58	-	GLASS SETTING BLOCK	EPDM - DURO 85 +/- 5	
59	-	GLASS SPACER	ALUMINUM	IFT ROSENHEIM



4348 WESTROADS DRIVE
RIVIERA BEACH, FL. 33407
PH. 561-844-1121
FAX 561-844-6131

PRODUCT:

Series
CW-1100 ALUMINUM
CURTAIN WALL-LMI & SMI

REVN	DATE/REMARKS
R3	FBC 2023

ENGINEER:



MCY ENGINEERING, INC.
GLAZING CONSULTANT

12781 Miramar Pkwy. Ste. 301
Miramar, FL 33027
P: (305) 271-0117
Email: mcy@mcyengineering.com
www.MCYEngineering.com

STAMP:



YIPING WANG, P.E.
FLORIDA REGISTRATION
No. 55983
C.A.N. 28677

August 11th, 2023

FLORIDA APPROVAL:

FL #20765

SHEET TITLE:

BOM

DRAWN: James	SHEET No:
DATE: 08/11/23	40 OF 40
DWG: AD16-21	