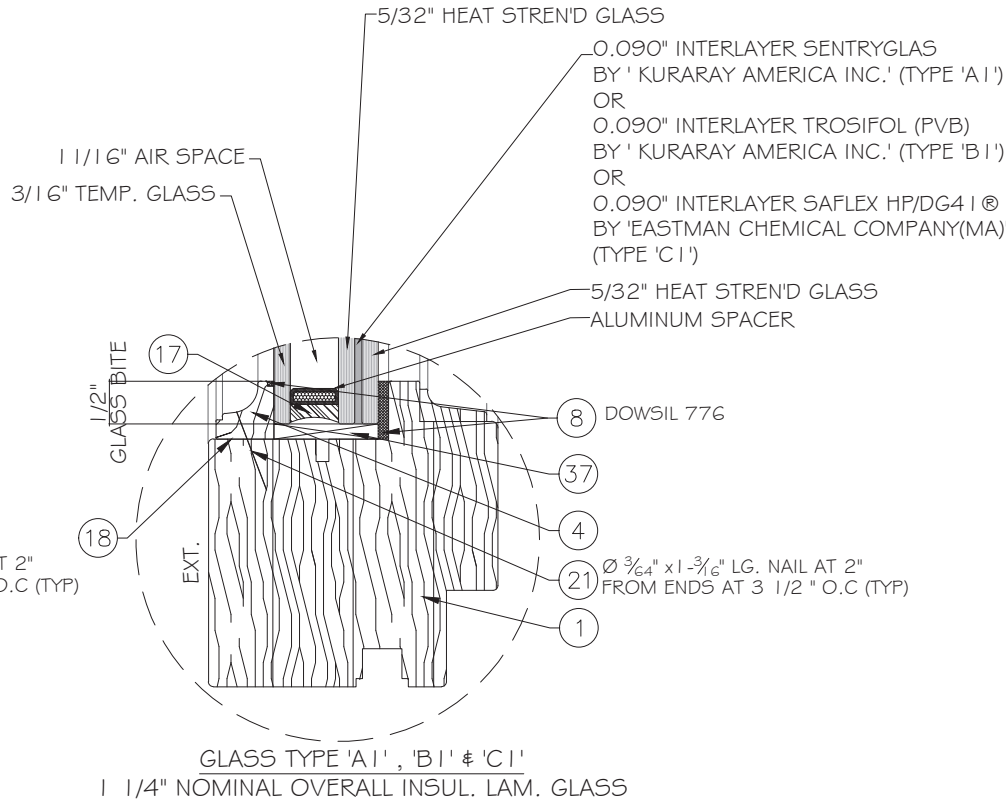
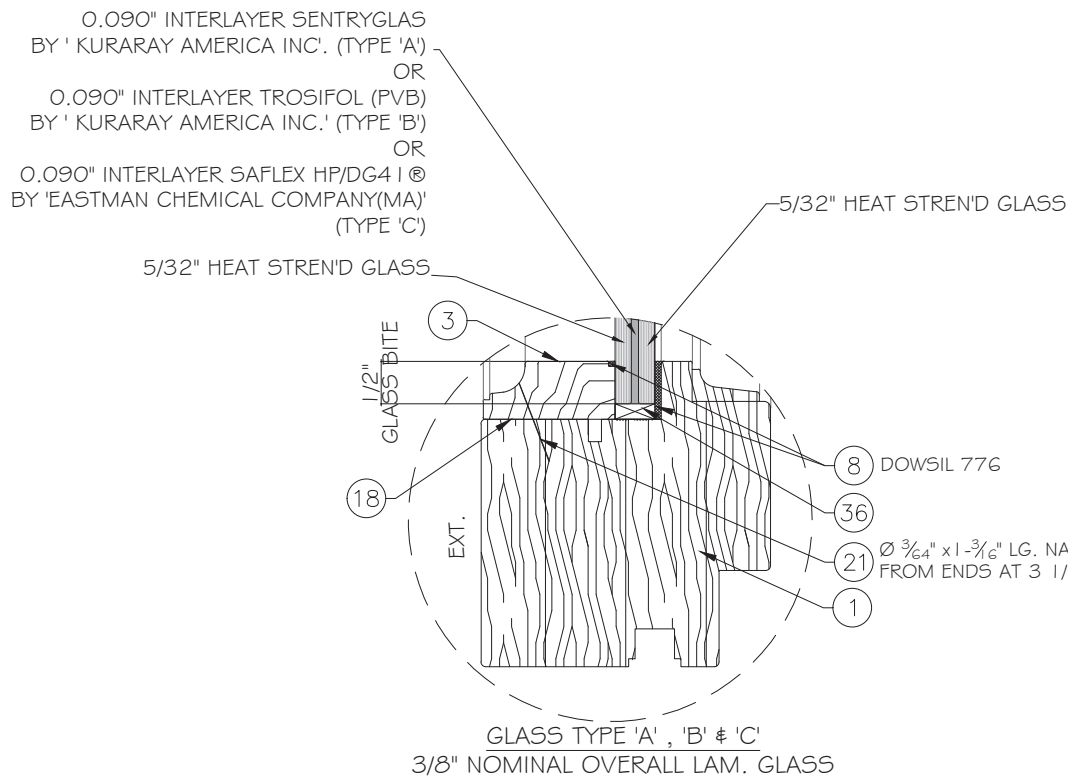


MIXLEGNO OUTSWING CASEMENT WINDOWS
LARGE & SMALL MISSILE IMPACT



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

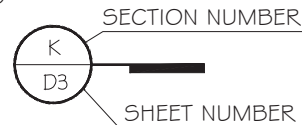
GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 8TH EDITION (2023) INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).
- WINDOWS RATED FOR LARGE AND 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 FLORIDA BUILDING CODE 8TH EDITION (2023) SECTION AS APPLICABLE.
- METAL AND WOOD STRUCTURES BY OTHER DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

- THE DESIGN LOADS SHOWN IN THIS DOCUMENT ARE ALLOWABLE DESIGN LOADS. 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 LOWER DESIGN LOAD RESULTING FROM ANCHORS AND MULLION CAPACITIES SHALL APPLY TO ENTIRE SYSTEM.
- 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.

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

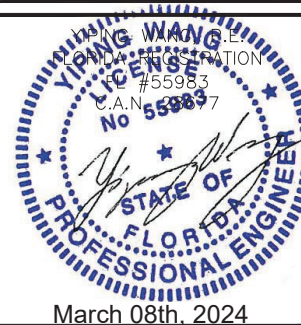


LIMITATIONS OF USE

- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.
- C- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- D- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D.
- E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

FLORIDA APPROVAL:

FL # 29496



OUTSWING CASEMENT WINDOWS (L.M.I & S.M.I)

MIXLEGNO GROUP S.R.L.
VIA DIAZ 5, S. ANDREA DI BARBARANA,
DI S.BIAGIO DI CALLATA (TV) 30148, ITALY
TEL. 0422 890216 - FAX 0422 790334
www.mixlegno.it info@mixlegno.it

COVER

DATE	03/08/2024
SCALE	AS SHOWN
DRAWN	JAMES
PROJECT	MCY18-181

DRAWING NO.

AD18-42

1 OF 11

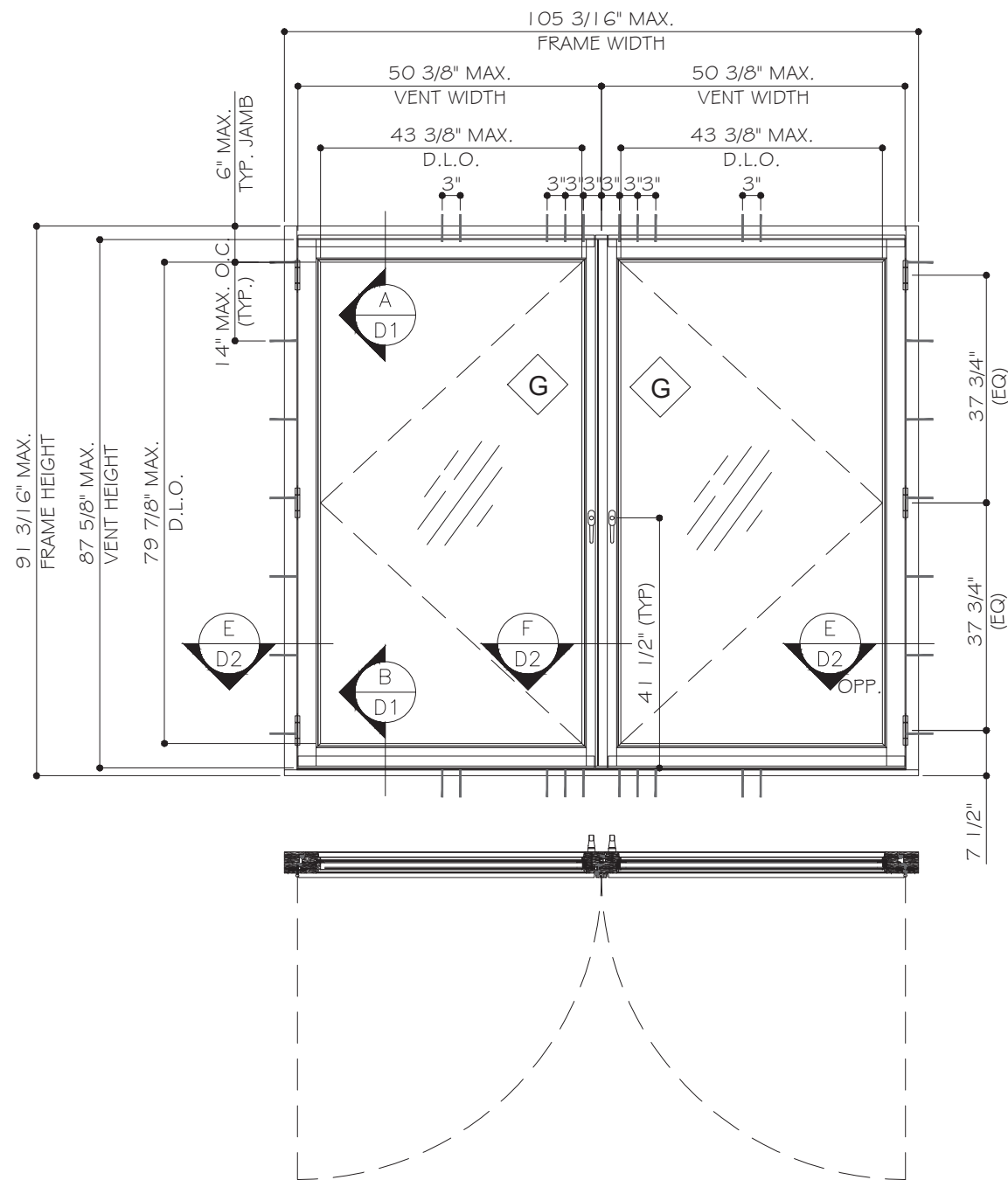
MCY ENGINEERING, INC.

GLAZING CONSULTANTS

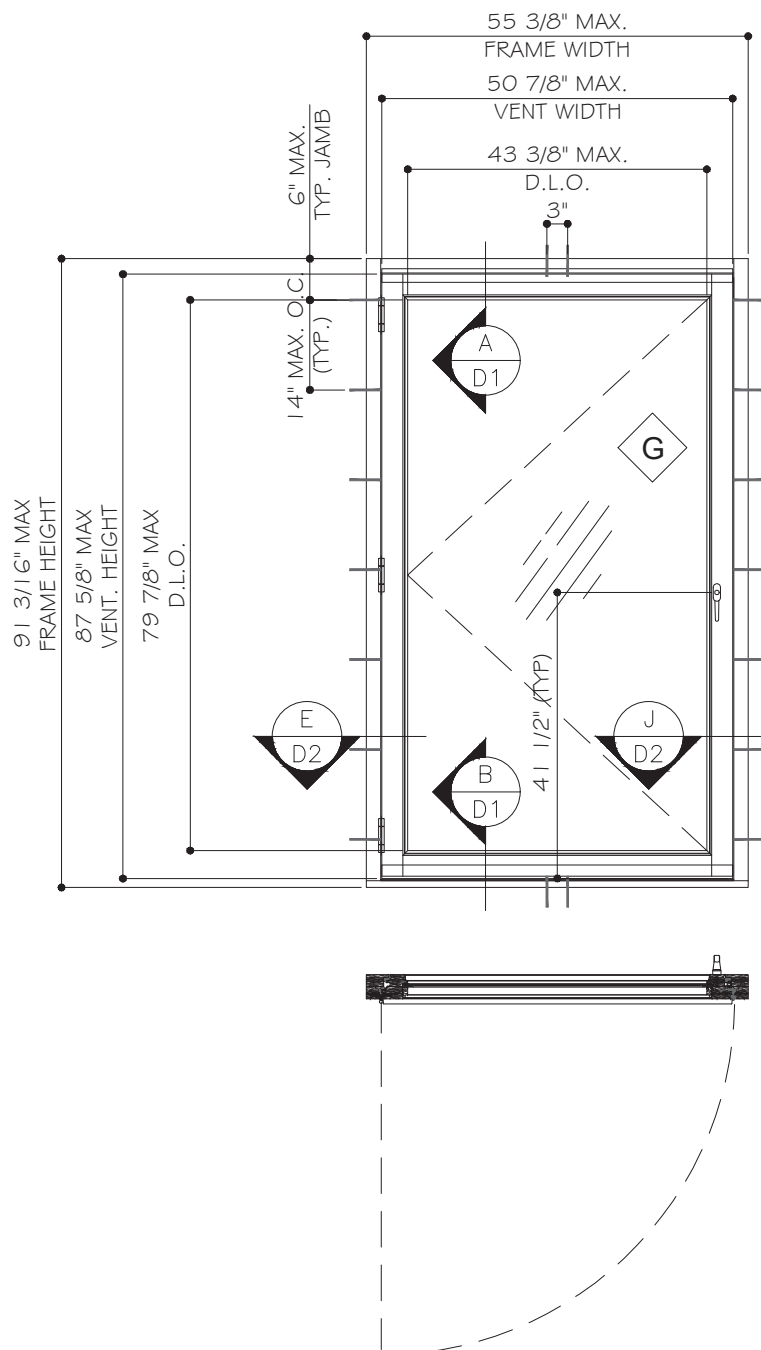
12781 MIRAMAR PARKWAY #301 P: 305.588.5224
MIRAMAR FL 33027 P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

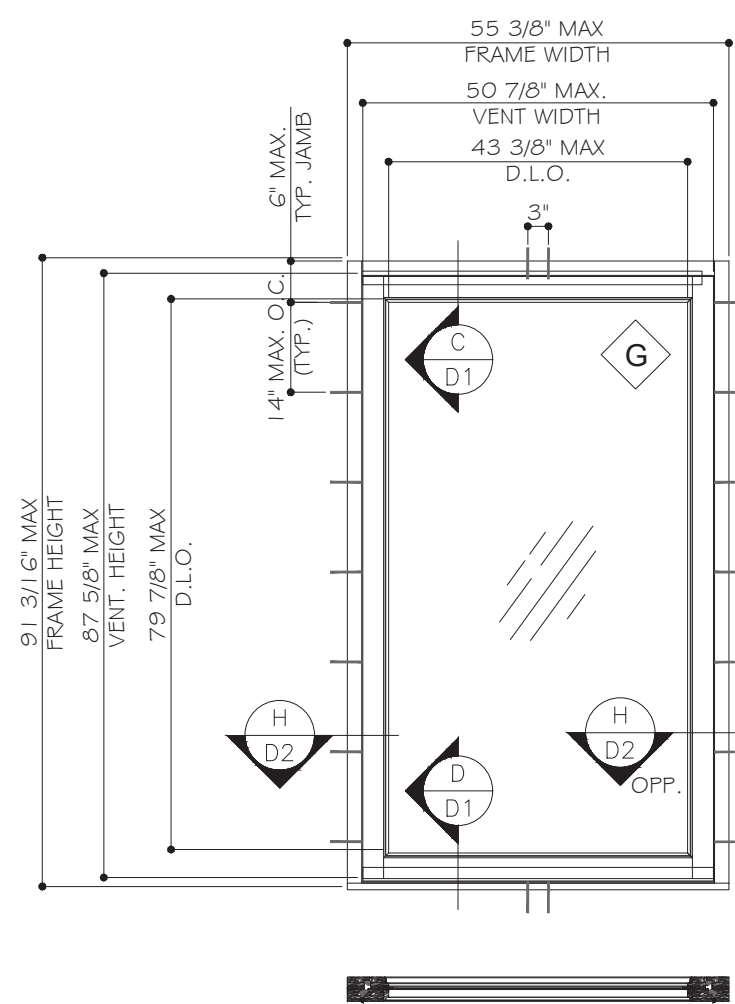
NO	DATE	DESCRIPTION
R2	03.08.2024	FBC 2023



TYPICAL EXTERIOR ELEVATIONS (XX)



TYPICAL EXTERIOR ELEVATIONS (X)



TYPICAL EXTERIOR ELEVATIONS (O)

G GLASS OPTIONS: A, AI, B, BI, C AND CI

REFER TO COVER SHEET FOR GLASS DETAILS.

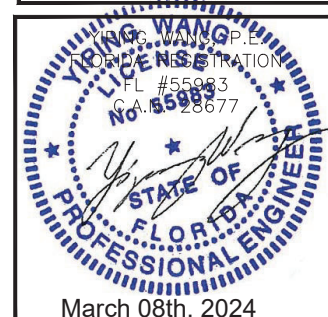
NOTE:

D.L.O.W. = VENT WIDTH - 7"

D.L.O.H. = VENT HEIGHT - 7.75"

MAX. DESIGN LOADS	
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)	
+75 PSF	
-75 PSF	

FLORIDA APPROVAL:
FL # 29496

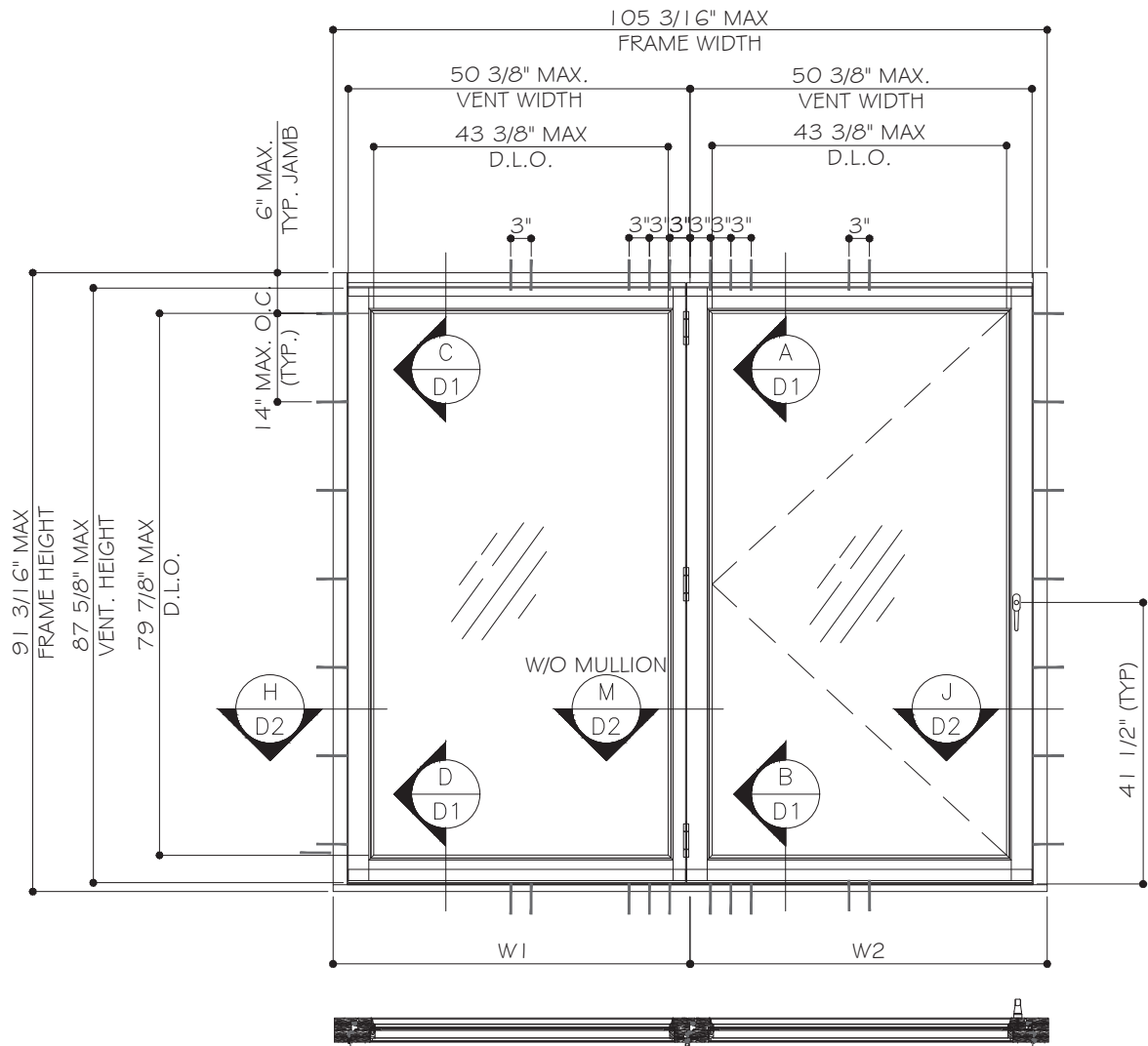


NO.	DATE	DESCRIPTION
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E1	
DATE	03/08/2024
SCALE	AS SHOWN
DRAWN	JAMES
PROJECT	MCY18-181
DRAWING NO.	AD18-42
2 OF 11	



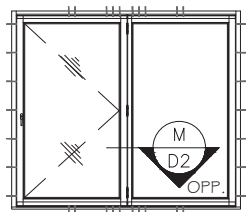
MAX. DESIGN LOAD (+/-) PSF				
TRIB. WIDTH	FRAME HEIGHT (IN)			
(IN)	80	84	90	91.18
36	75	75	75	75
39	75	75	74	70.9
42	75	75	69.1	66.3
45	75	75	65	62.2
48	75	75	61.3	58.7
52.63	75	70.3	56.6	54.2

MULLION TRIB. WIDTH (W) = $\frac{W1 + W2}{2}$

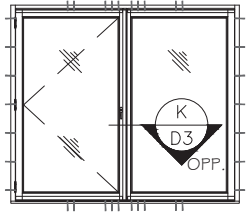
TYPICAL EXTERIOR ELEVATIONS (OX)

WITHOUT MULLION

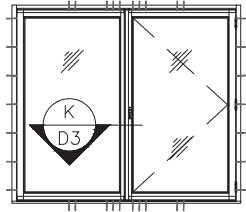
OTHER TYPICAL EXTERIOR ELEVATIONS (OPTIONS)



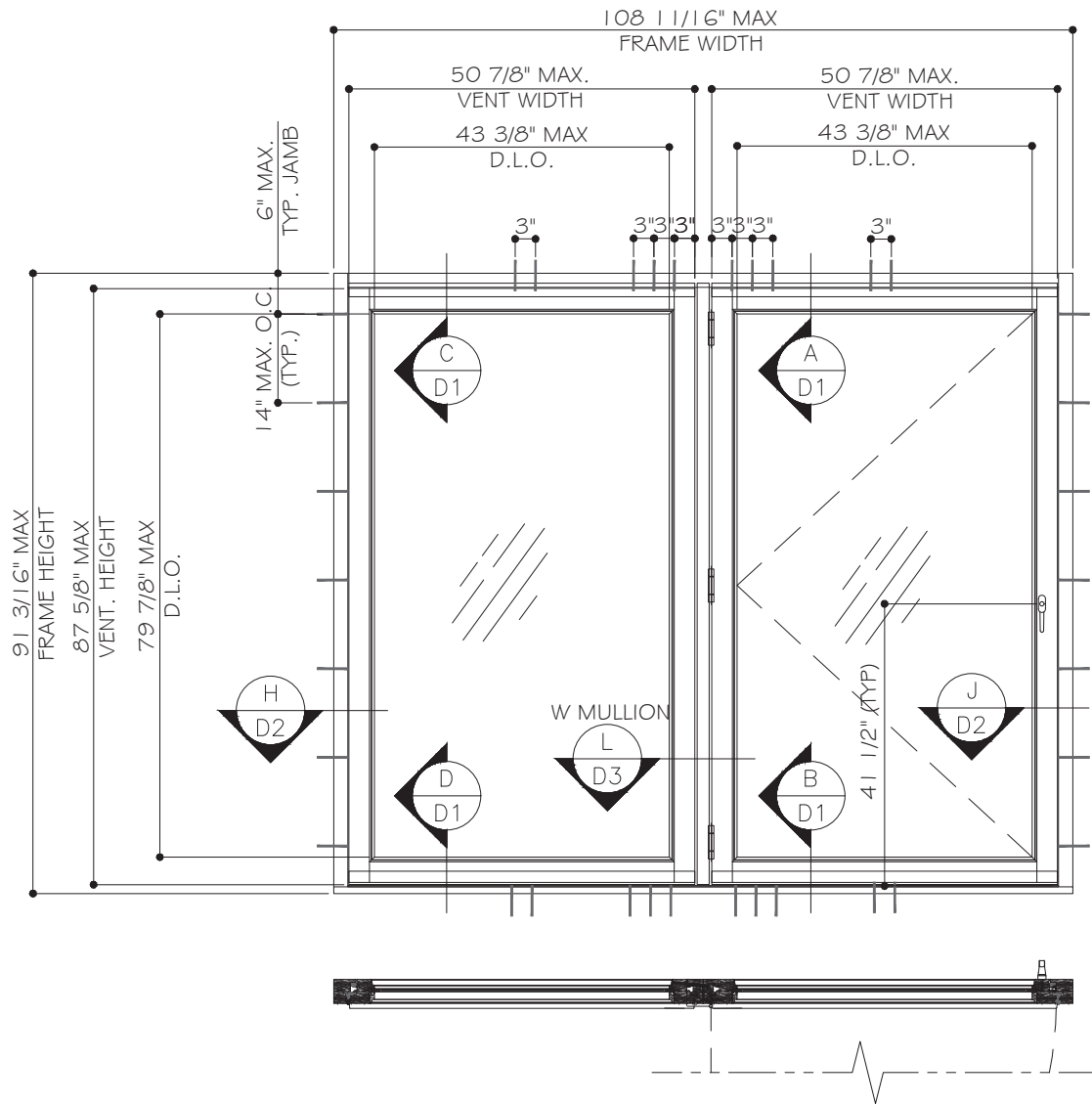
(XO)
OPTION



(OX)
OPTION



(OX)
OPTION



TYPICAL EXTERIOR ELEVATIONS (OX)

WITH MULLION

MAX. DESIGN LOADS FOR IMPOSED MULLION OPTION
(FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC)
+75 PSF -75 PSF

FLORIDA APPROVAL:
FL # 29496

YIPING WANG
Professional Engineer
State of Florida
License No. 65989

March 08th, 2024

REVISIONS

NO	DATE	DESCRIPTION
R2	03/08/2024	FBC 2023

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301
MIRAMAR FL 33027

P: 305.588.5224
P: 305.271.0117

www.MCYEngineering.com mcy@mcyengineering.com

OUTSWING CASEMENT WINDOWS (L.M.I & S.M.I.)

MIXLEGNO GROUP S.R.L.

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E2

DATE	03/08/2024
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DRAWING NO.
AD18-42

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TYPICAL ANCHORS:

ANCHOR TYPE A:

1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u=164$ KSI, $F_y=148$ KSI)

- INTO WOOD STRUCTURE WITH 1-1/2" MIN. EMBED.
- THRU 1X OR 2X WOOD BUCKS INTO CONCRETE OR DIRECTLY INTO CONCRETE WITH 1-3/4" EMBED.
- INTO GROUT FILLED BLOCK WITH 1-3/4" MIN. EMBED. (JAMB ONLY)
- INTO HOLLOW BLOCK WITH 1-1/4" MIN. EMBED. (JAMB ONLY)

ANCHOR TYPE B:

1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ($F_u=120$ KSI, $F_y=92$ KSI)

- INTO STEEL (A36): 1/8" THK. MIN. ($F_y=36$ KSI MIN.)

ANCHOR TYPE C:

1/4" DIA. TEKS/DRIL-FLEX SCREW GRADE 5 ($F_u=120$ KSI, $F_y=92$ KSI)

- INTO ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)

MINIMUM EDGE DISTANCE:

- CONCRETE OR GROUT FILLED = 2-1/2" MIN.
- HOLLOW BLOCK = 2-1/2" MIN.
- WOOD STRUCTURE = 1" MIN.
- METAL STRUCTURE = 3/4" MIN.

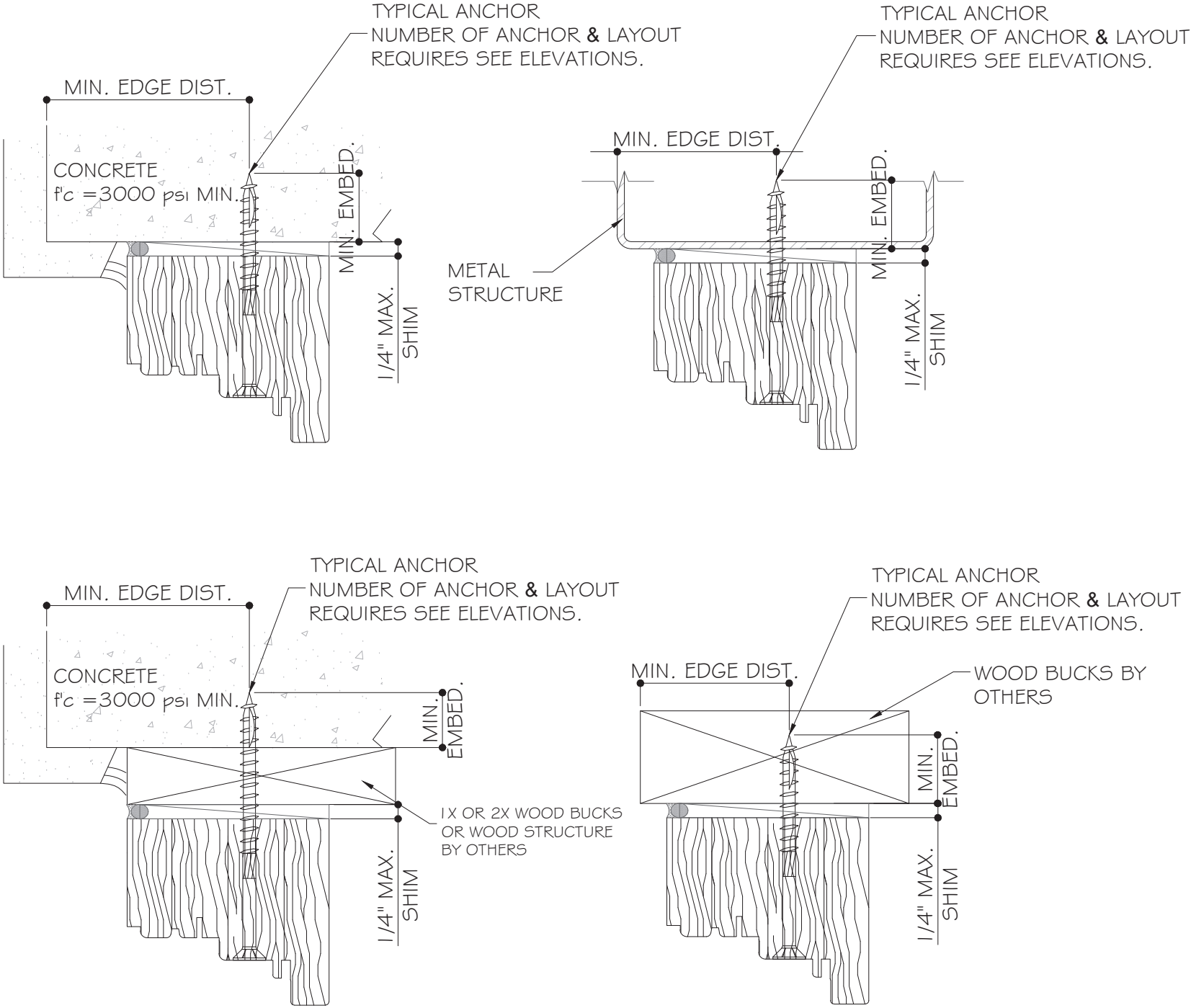
WOOD STRUCTURE AND BUCK: SG = 0.55 MIN. (SOUTHERN PINE)

CONCRETE: $f_c = 3000$ PSI MIN.

HOLLOW/FILLED BLOCK AT JAMB $f'_m = 2000$ PSI MIN. (ASTM C-90 GRADE N)

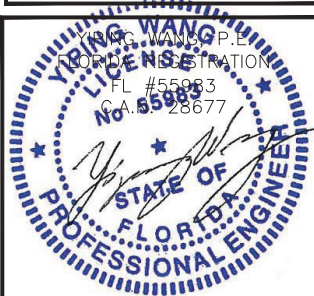
SEALANT: (DOW CORNING 776)

PERIMETER OF FRAME ON THE INTERIOR, FRAME CORNERS, GLAZING BEAD SEAMS AT EACH END, FIXED MEETING RAIL AT EACH END, INSTALLATION FASTENERS AT FRAME SILL & EACH END OF FRAME SILL TRACK.



- NOTES:
- SUBSTRATE CAN BE INTERCHANGED AT JAMB & SILL.
 - METAL AND WOOD STRUCTURES BY OTHER DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

FLORIDA APPROVAL:
FL # 29496



REVISIONS	
NO.	DATE
R2	03/08/2024
	FBC 2023

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MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301
MIRAMAR FL 33027
P: 305.588.5224
P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

OUTSWING CASEMENT WINDOWS (L.M.I & S.M.I.)

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A1	
DATE	03/08/2024
SCALE	AS SHOWN
DRAWN	JAMES
PROJECT	MCY18-181
DRAWING NO. AD18-42	
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HARDWARE:

LOCKS OPTION:

ACTIVE SASH / OPERABLE SASH:

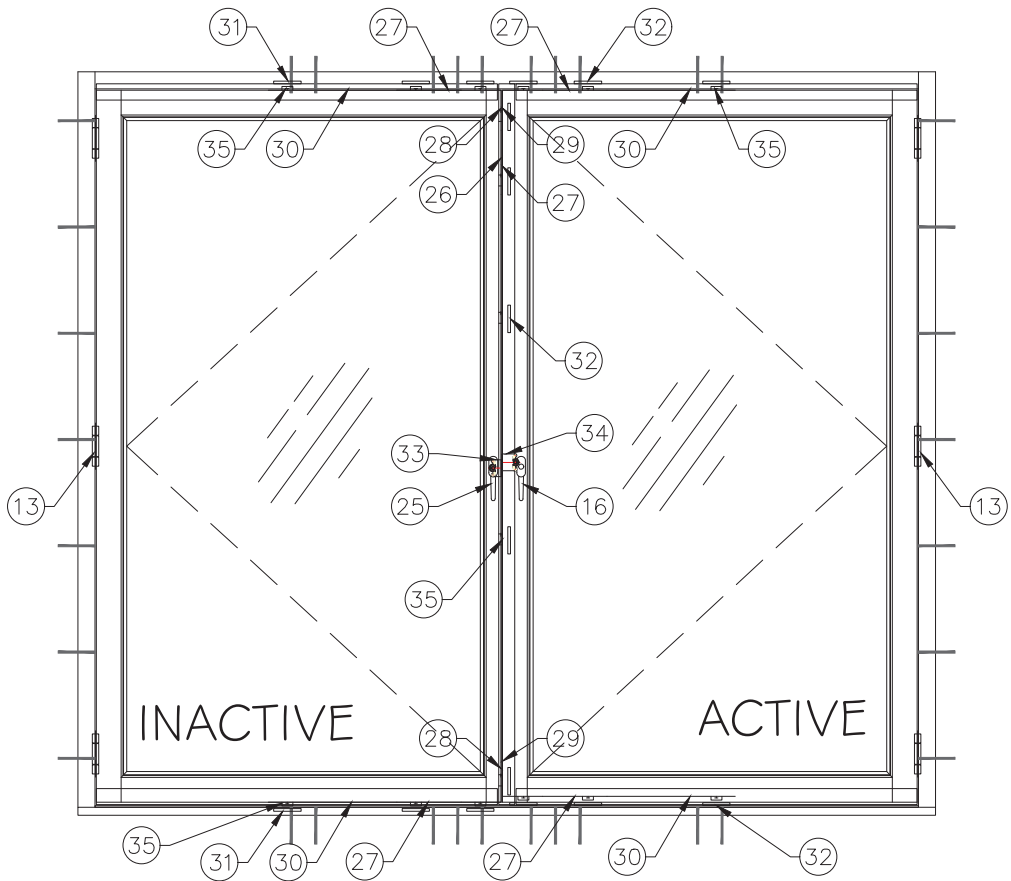
9 OR 10 OR 11 OR 12-POINTS MUSHROOM HEAD GUIDE LOCK (A50122.40.08) BY A.G.B. WITH KEEPERS INSTALLED USING (2) #10 x 2" PFH SS SMS ON EACH.

INACTIVE SASH:

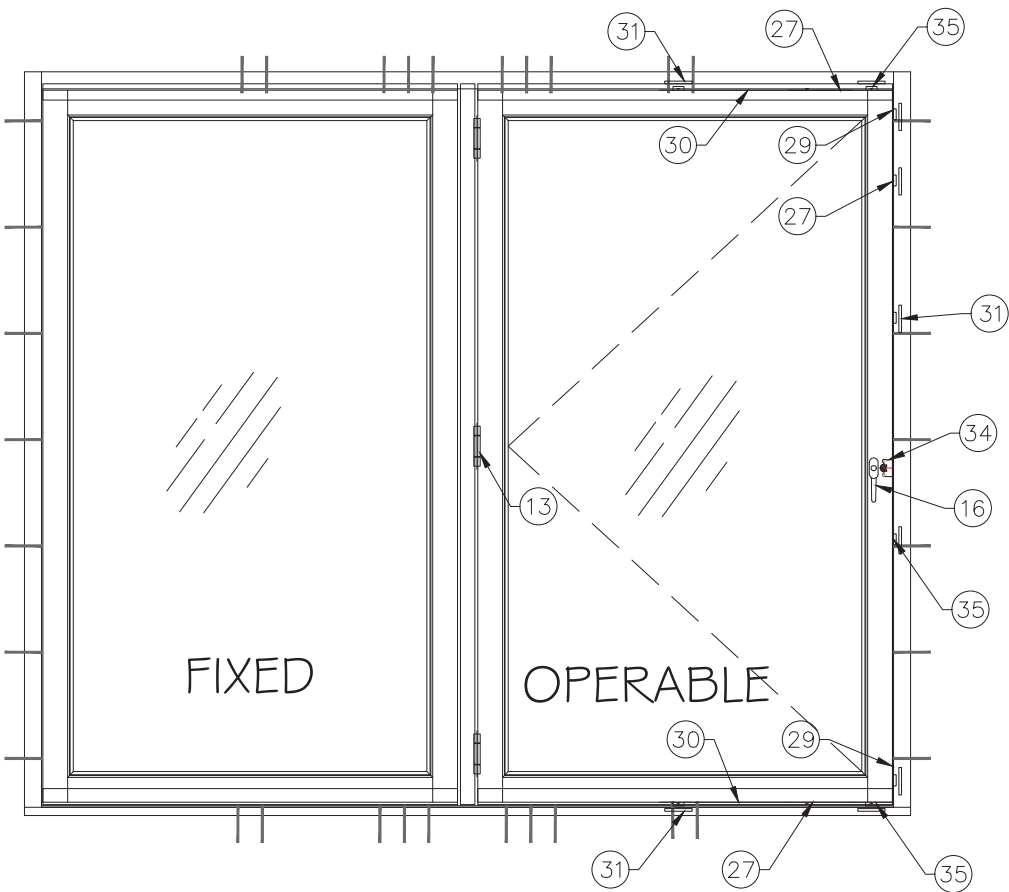
6 OR 9-POINTS MUSHROOM HEAD GUIDE LOCK (A50122.25.08) BY A.G.B. WITH KEEPERS INSTALLED USING (2) #10 x 2" PFH SS SMS ON EACH.

HINGES:

(3) 3.5" x 5.0" SOLID BRASS HINGES BY MIXLEGNO. FOR HINGE LAYOUT SEE SHEET E1 AND HINGE DETAIL SHEET BOM.

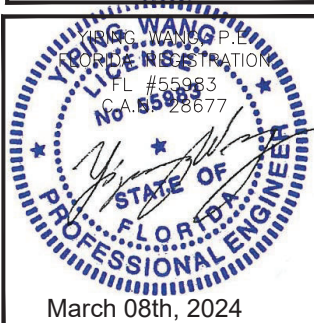


HARDWARE OPTIONS



HARDWARE OPTIONS

FLORIDA APPROVAL:
FL # 29496



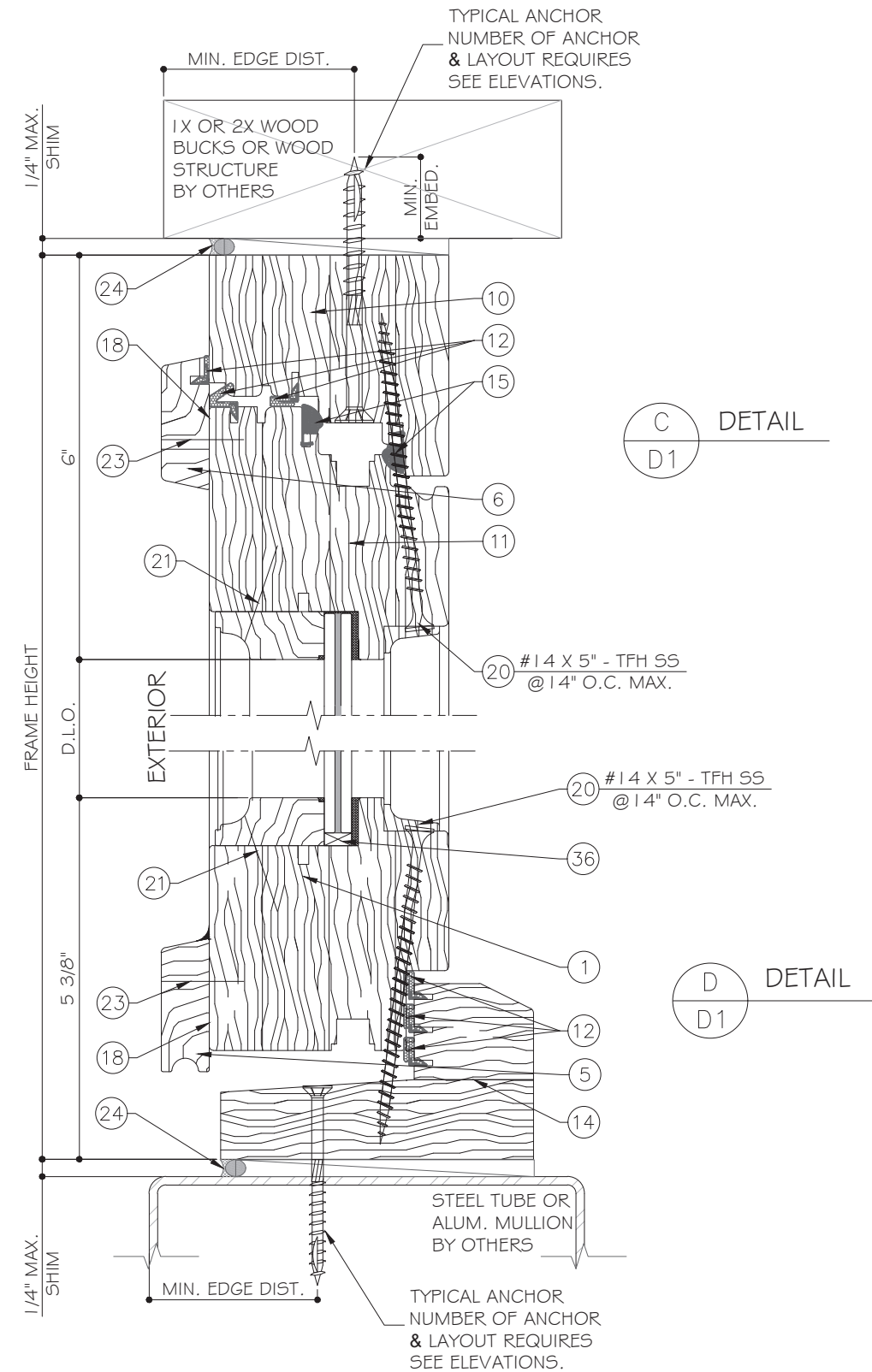
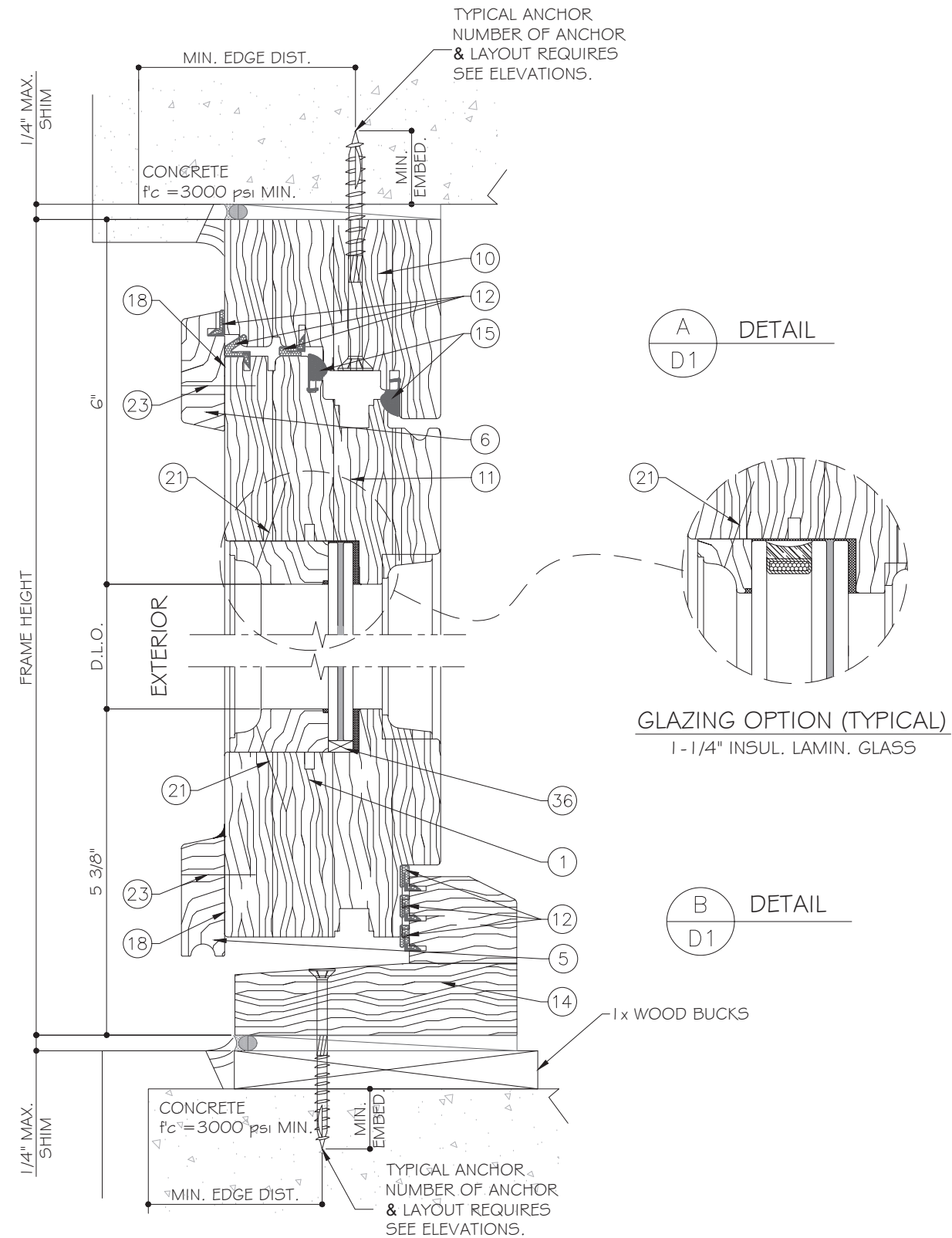
NO	DATE	DESCRIPTION
R2	03/08/2024	PEC 2023

MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PARKWAY #301 P: 305.588.5224
MIRAMAR FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

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A2	
DATE	03/08/2024
SCALE	AS SHOWN
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PROJECT	MCY18-181
DRAWING NO. AD18-42	
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WOOD BUCKS AND METAL STRUCTURE NOT BY MIXLEGO MUST BE ANCHORED PROPERLY TO TRANSFER OR SUPPORT THE LOAD IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO BUILDING STRUCTURE



FLORIDA APPROVAL:
FL # 29496

YIPING WANG P.E.
FL #55083
CA.# 28677

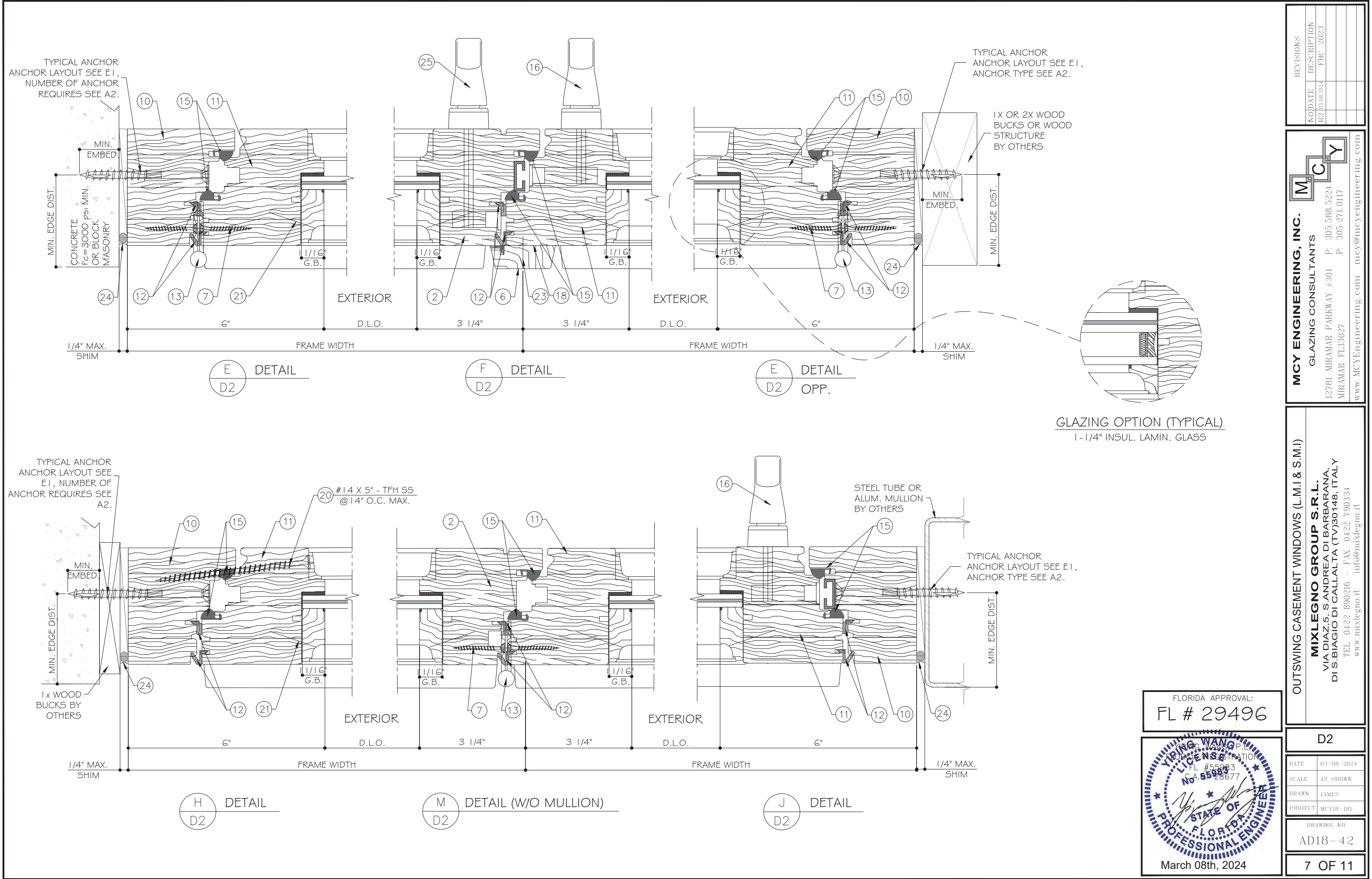
March 08th, 2024

REVISIONS		NO. DATE		DESCRIPTION	
		R2		03/08/2024	
				FHC 2023	

MCY ENGINEERING, INC.		GLAZING CONSULTANTS	
12781 MIRAMAR PARKWAY #301		P: 305.588.5224	
MIRAMAR FL 33027		P: 305.271.0117	
www.MCYEngineering.com		mcy@mcyengineering.com	

OUTSWING CASEMENT WINDOWS (L.M.I & S.M.I.)		MIXLEGO GROUP S.R.L.	
VIA DIAZ, 5, S. ANDREA DI BARBARANA, DI S. BIAGIO DI CALLALTA (TV) 30148, ITALY		TEL. 0422 890216 - FAX 0422 790334	
www.mixlegno.it		info@mixlegno.it	

D1	
DATE	03/08/2024
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DRAWN	JAMES
PROJECT	MCY18-181
DRAWING NO.	
AD18-42	
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	FBC 2023

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MCY ENGINEERING, INC.

GLAZING CONSULTANTS

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D2	
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DRAWING NO.

AD18-42

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FLORIDA APPROVAL:
FL # 29496

YIPING WANG, P.E.

PROFESSIONAL ENGINEER

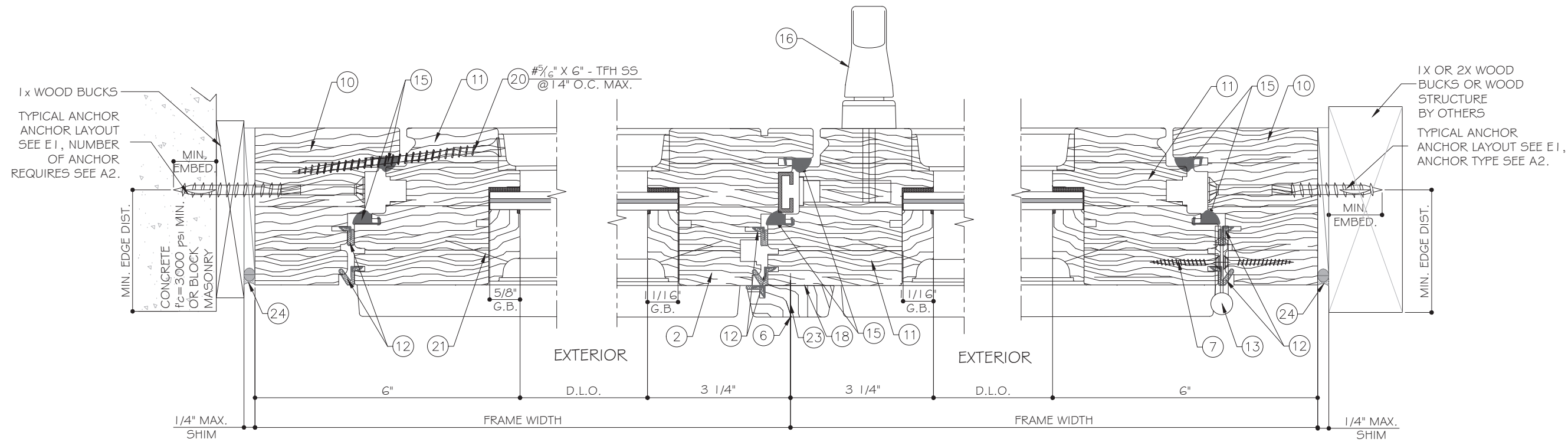
FL #55983

CA. 28677

STATE OF FLORIDA

PROFESSIONAL ENGINEER

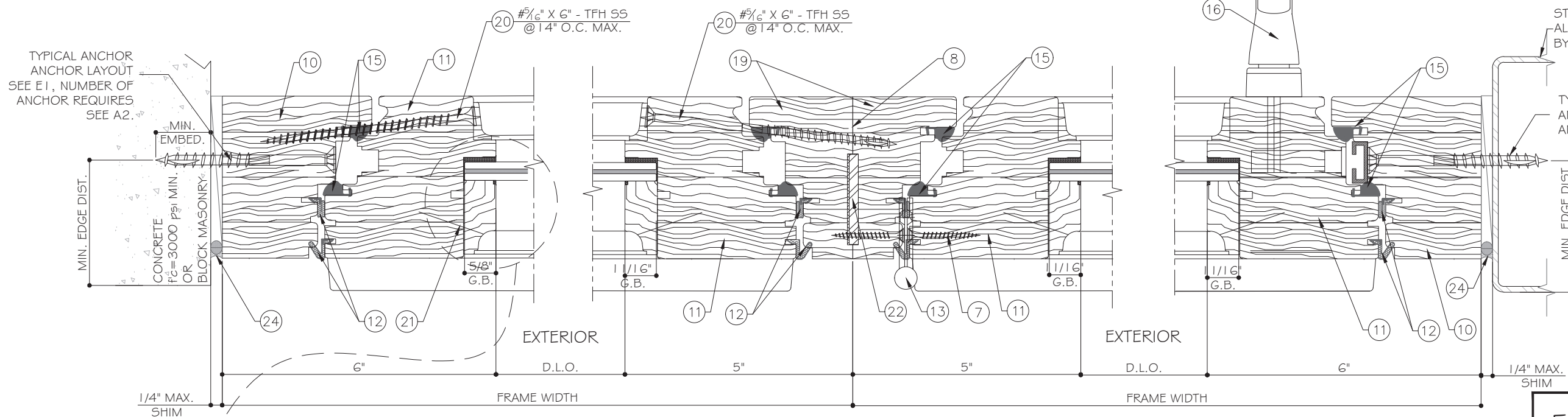
March 08th, 2024



H
D2
DETAIL

K
D3
DETAIL
(W/O MULLION)

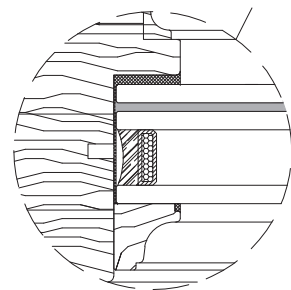
E
D2
DETAIL
OPP.



H
D2
DETAIL

L
D3
DETAIL (W/ MULLION)

J
D2
DETAIL



GLAZING OPTION (TYPICAL)
1-1/4" INSUL. LAMIN. GLASS

FLORIDA APPROVAL:
FL # 29496

YIANG WANG, P.E.
Professional Engineer
FL #55983
C.A. #28677

March 08th, 2024

REVISIONS	
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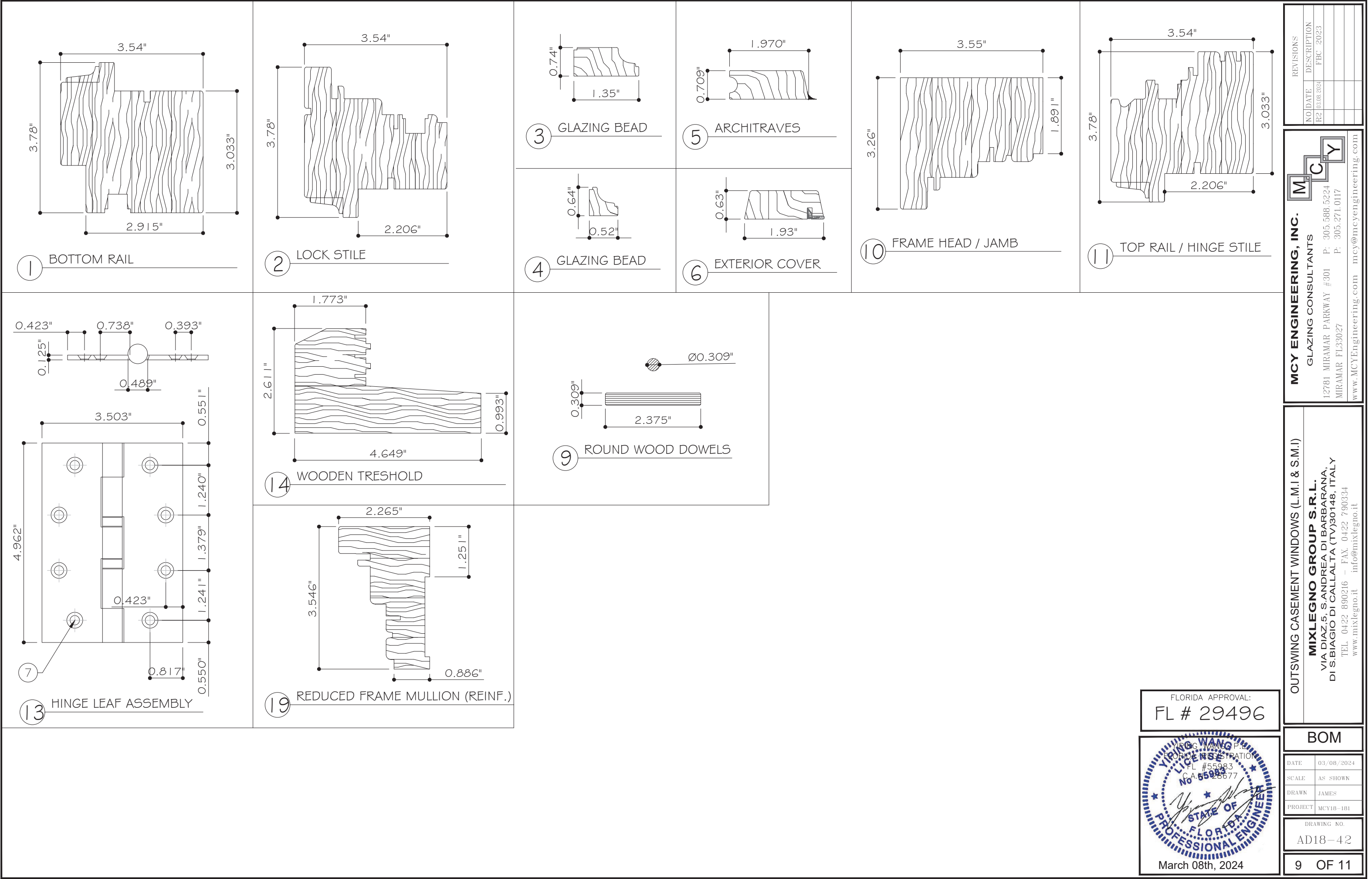
OUTSWING CASEMENT WINDOWS (L.M.I & S.M.I.)

D3

DATE	03/08/2024
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DRAWN	JAMES
PROJECT	MCY18-181

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AD18-42

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DESCRIPTION	
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MIRAMAR FL33027

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BOM	
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DRAWING NO.	
AD18-42	
9	OF 11

FLORIDA APPROVAL:

FL # 29496

YIPING WANG

REGISTERED PROFESSIONAL ENGINEER

STATE OF FLORIDA

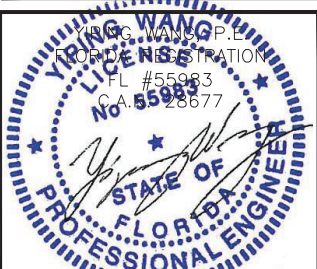
YIPING WANG P.E.
FOR MIXLEGNO GROUP S.R.L.
FL #55983
C.A.#26677

March 08th, 2024

BILL OF MATERIALS				
ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	MX-54	BOTTOM RAIL	ASH WOOD - LAMINATED	MIXLEGNO GROUP S.R.L - (SG=0.65) (MC= 1 2%)
2	MX-39	LOCK STILE	ASH WOOD - LAMINATED	MIXLEGNO GROUP S.R.L - (SG=0.65) (MC= 1 2%)
3	MX-56	GLAZING BEAD FOR LAMINATED GLASS	SOLID WOOD	MIXLEGNO GROUP S.R.L
4	MX-43	GLAZING BEAD INSULATED LAMINATED GLASS	SOLID WOOD	MIXLEGNO GROUP S.R.L
5	MX-45	ARCHITRAVES	ASH WOOD - LAMINATED	MIXLEGNO GROUP S.R.L - (SG=0.65) (MC= 1 2%)
6	MX-44	COVER	SOLID WOOD	MIXLEGNO GROUP S.R.L
7	-	SCREW FOR HINGES - (4) #1 0X2"-PFH SS SMS	STAINLESS STEEL	-
8	-	DOWSIL™ 776 STRUCTURAL SILICONE	SILICONE	DOWSIL
9	MX-57	ROUND WOOD DOWELS	Ø8 BEECH WOOD	MIXLEGNO GROUP S.R.L
10	MX-37	FRAME HEAD / JAMB	ASH WOOD - LAMINATED	MIXLEGNO GROUP S.R.L - (SG=0.65) (MC= 1 2%)
11	MX-38	TOP RAIL / HINGE STILE	ASH WOOD - LAMINATED	MIXLEGNO GROUP S.R.L - (SG=0.65) (MC= 1 2%)
12	-	KERF GASKET (ART. AQ 21)	SILICONE	SCHLEGEL
13	MX-01	HINGE LEAF ASSEMBLY	BRASS	MIXLEGNO GROUP S.R.L
14	MX-55	WOODEN TRESHOLD	ASH WOOD - LAMINATED	MIXLEGNO GROUP S.R.L - (SG=0.65) (MC= 1 2%)
15	-	KERF GASKET (ART. QL 3068)	SILICONE	SCHLEGEL
16	-	ACTIVE HANDLE	SOLID BRASS	REGUITTI
17	-	GLASS SPACER	ALUMINUM	ALU PRO S.R.L.
18	-	WOOD GLUE - PROTOVIL D3	WOOD GLUE	COLANTI CONCORDE S.R.L.
19	MX-46	REDUCED FRAME MULLION (REINF.)	ASH WOOD - LAMINATED	MIXLEGNO GROUP S.R.L - (SG=0.65) (MC= 1 2%)
20	-	SCREW FOR FIXING SASH - 5⁄16" X 6" - TFH SS.	STAINLESS STEEL	-
21	-	NAILS 3⁄64"X1 -3⁄16" LG. AT 2" FROM ENDS & 3 1⁄2 " O.C	STEEL	-
22	-	1/4" x 2" STEEL REINFORCEMENT BAR	STEEL	FY = 36 KSI
23	-	NAILS,AT 1 1/4" FROM THE LEFT ENDS & 6 " O.C	STEEL	-
24	-	CONT. SILICONE SEALANT & BACKER ROD	-	-
25	-	INACTIVE HANDLE	SOLID BRASS	REGUITTI
26	-	EXTENSION(A51801.00.01)	-	A.G.B.
27	-	EXTENSION(A51803.00.01)	-	A.G.B.
28	-	CORNER DRIVE(A50302.01.02)	-	A.G.B.
29	-	CORNER DRIVE(A50302.02.02)	-	A.G.B.
30	-	TERMINAL ELEMENT(A50401.00.02)	-	A.G.B.
31	-	STRIKER(A5145X.CR.67)	-	A.G.B.
32	-	STRIKER(A514DX.CR.67)	-	A.G.B.
33	-	ACTIVE SASH DINDOW GEAR /MOSHROOM HEAD GUIDE LOCK(A50122.40.08)	-	A.G.B.
34	-	INACTIVE SASH DINDOW GEAR(A50122.25.08)	-	A.G.B.
35	-	KEEPER	-	A.G.B.
36	-	3/16" x 3/8" x 2" SETTING BLOCKS	EPDM,70-90 SHORE A DUROMETER	-
37	-	3/16" x 1-1/4" x 2" SETTING BLOCKS	EPDM,70-90 SHORE A DUROMETER	-

MC = MOISTURE CONTENT

FLORIDA APPROVAL:
FL # 29496



March 08th, 2024

REVISIONS	
NO	DATE
1	03/08/2024
2	03/08/2024
3	
4	
5	

MCY

MCY ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301
MIRAMAR FL33027
www.MCYEngineering.com mcye@mcyengineering.com

OUTSWING CASEMENT WINDOWS (L.M.I & S.M.I)

MIXLEGNO GROUP S.R.L.
VIA DIAZ 5, S.ANDREA DI BARBARANA,
DI S.BIAGIO DI CALLALTA (TV)30148, ITALY
TEL. 0422 890216 – FAX 0422 790334
www.mixlegno.it info@mixlegno.it

BOM2	
DATE	03/08/2024
SCALE	AS SHOWN
DRAWN	JAMES
PROJECT	MCY18-181
DRAWING NO.	
AD18-42	
10 OF 11	

