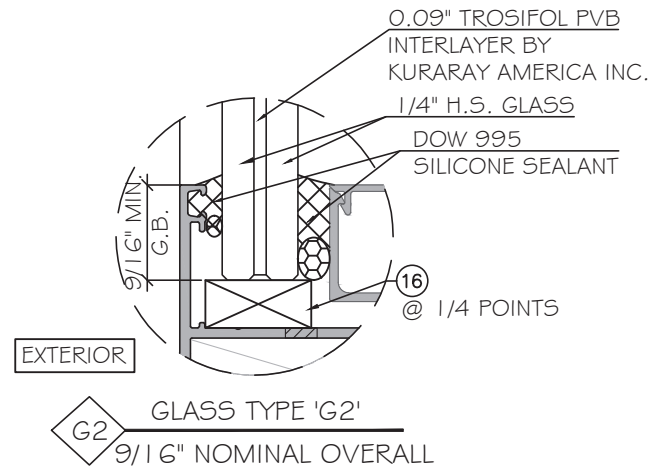


SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
SP60 FIXED WINDOW LARGE MISSILE IMPACT



GENERAL NOTES:

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

- WINDOWS ARE RATED FOR LARGE 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 OF FLORIDA BUILDING CODE 2020/ 8TH EDITION OF FLORIDA BUILDING CODE 2023 SECTION AS APPLICABLE.

- METAL STRUCTURES BY OTHERS TO BE DESIGNED TO SUPPORT THE LOADS IMPOSED BY THIS GLAZING SYSTEM AND TO TRANSFER SUCH LOADS TO THE BUILDING MAIN STRUCTURE.

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

- MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE LABELING TO COMPLY WITH SECTION 1709.9.2.

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

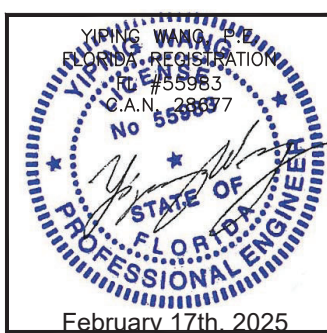
NOTE:
GLASS COMPLIES WITH ASTM E1300-09
(3 SEC. GUSTS).

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 ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- E- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

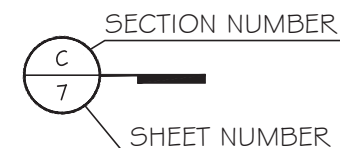
FLORIDA APPROVAL:

FL#40279

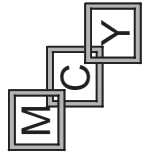


ABBREVIATIONS AND SYMBOLS

G.B. - GLASS BITE
D.L.O. - DAYLITE OPENING
F.H. - FRAME HEIGHT
F.W. - FRAME WIDTH
W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER



MCY ENGINEERING, INC.
GLAZING CONSULTANTS



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

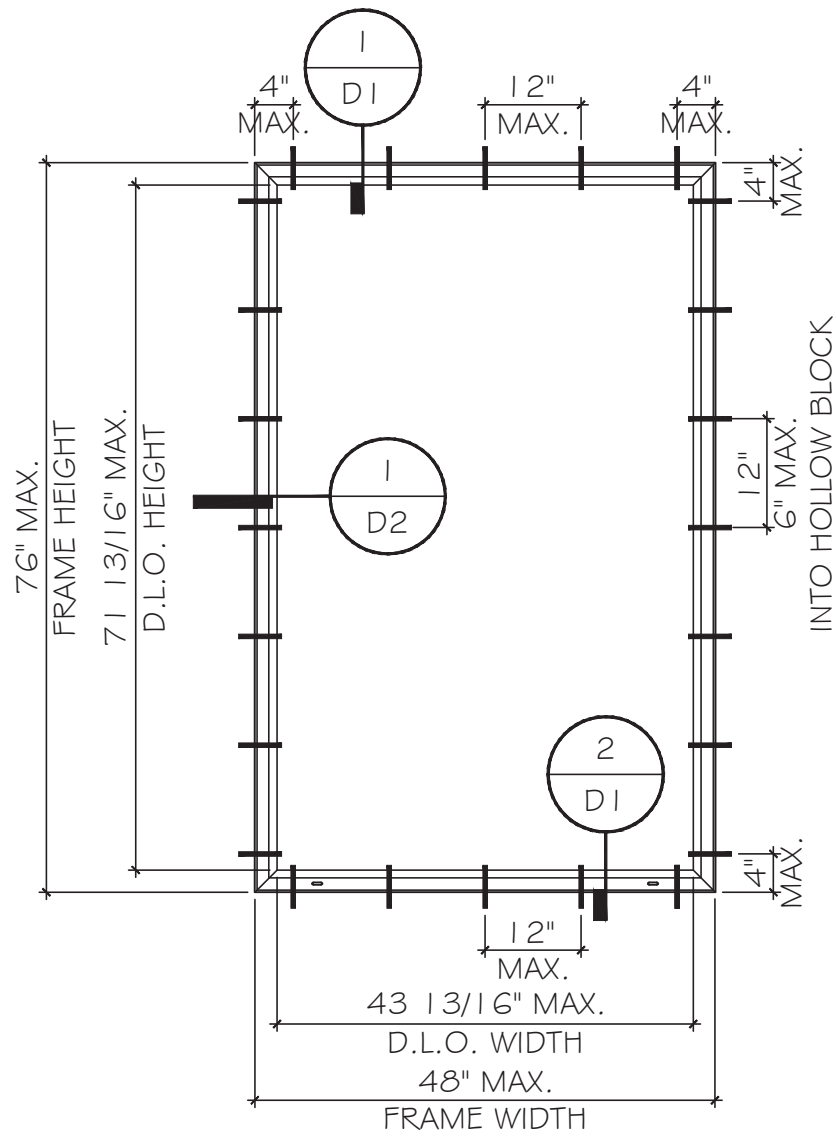
www.MCYEngineering.com

SP60 FIXED WINDOW - L.M.I.

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA

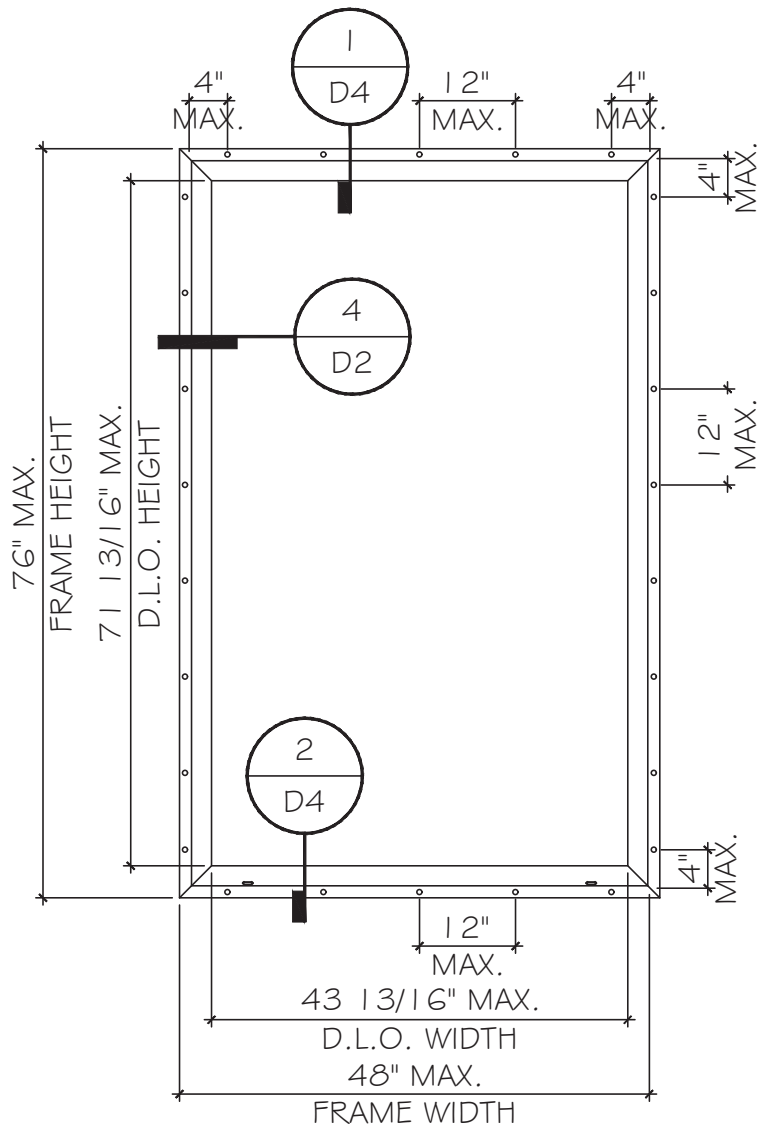
TEL.86 021-5822 0630 CELL.86 135-8572-3609

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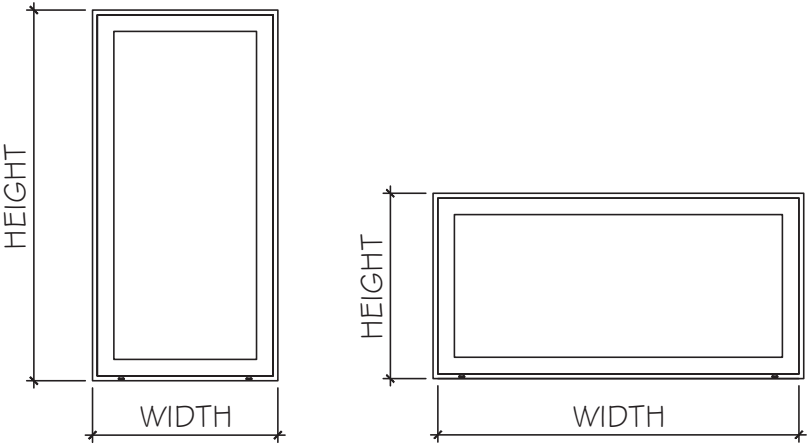
TYPICAL EXTERIOR ELEVATION

ALLOWABLE DESIGN LOAD
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+60 PSF -60 PSF



TYPICAL EXTERIOR ELEVATION
(NAIL FIN)

ALLOWABLE DESIGN LOAD
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
+60 PSF -60 PSF



NOTE:
WIDTH AND LENGTH DIMENSION CAN BE
ORIENTED VERTICALLY OR HORIZONTALLY AS
SHOWN ABOVE.

FLORIDA APPROVAL:
FL#40279

February 17th, 2025

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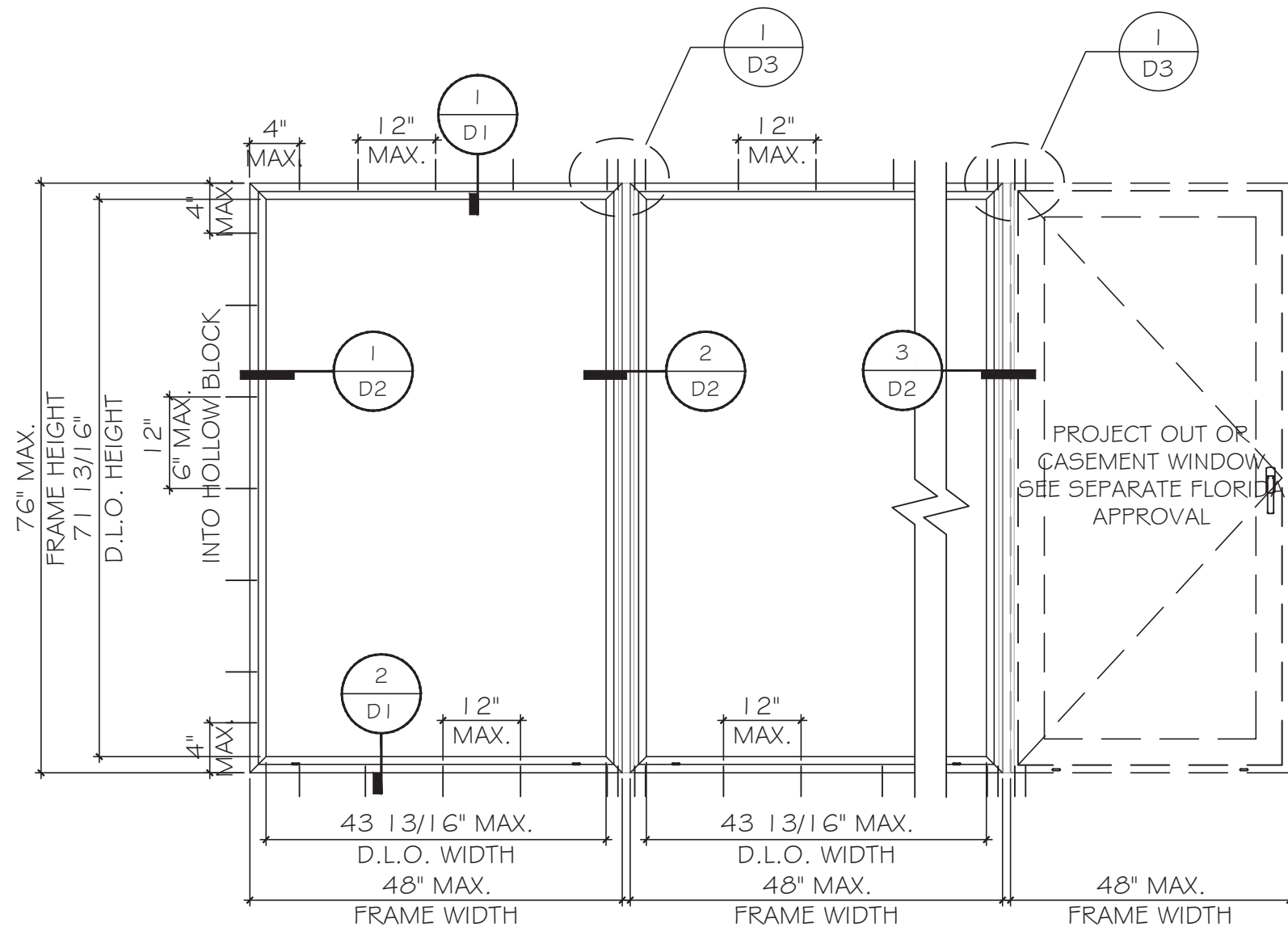
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2.	08.16.2023	JAMES	FBC 2023 UPDATE
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Drawn Date
02.10.2025

Scale
AS SHOWN

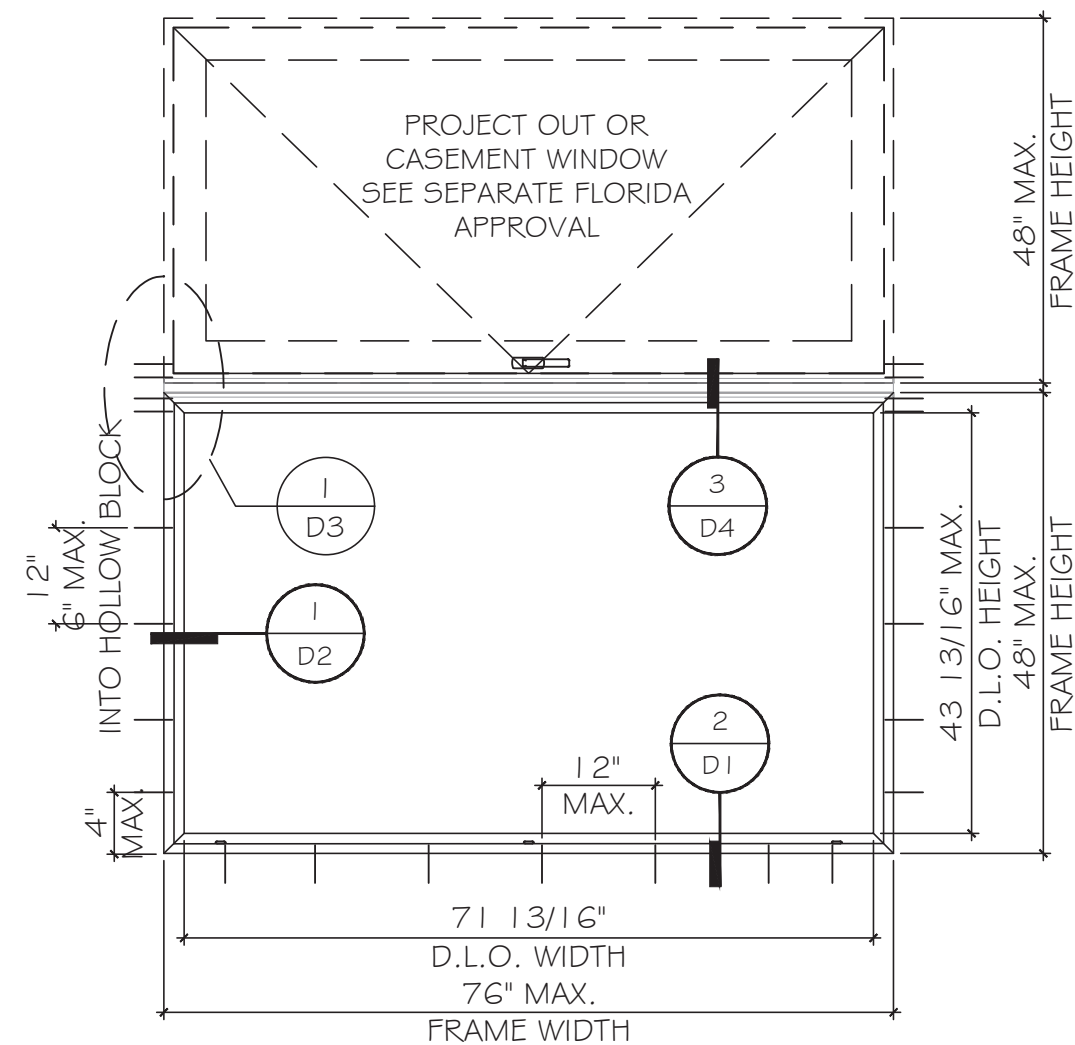
DRAWING NO.
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Sheet No.
2 OF 12



TYPICAL EXTERIOR ELEVATION

ALLOWABLE DESIGN LOAD	
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC	
+60 PSF -60 PSF	



TYPICAL EXTERIOR ELEVATION

ALLOWABLE DESIGN LOAD	
FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC	
+60 PSF -60 PSF	

FLORIDA APPROVAL:
FL#40279

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
FLORIDA REGISTRATION
#55983
CAJN 559877

February 17th, 2025

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TEL:86 021-5822 0630 CELL:86 135-8572-3609

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2.	08.16.2023	JAMES	
1.	11.25.2021	JAMES	

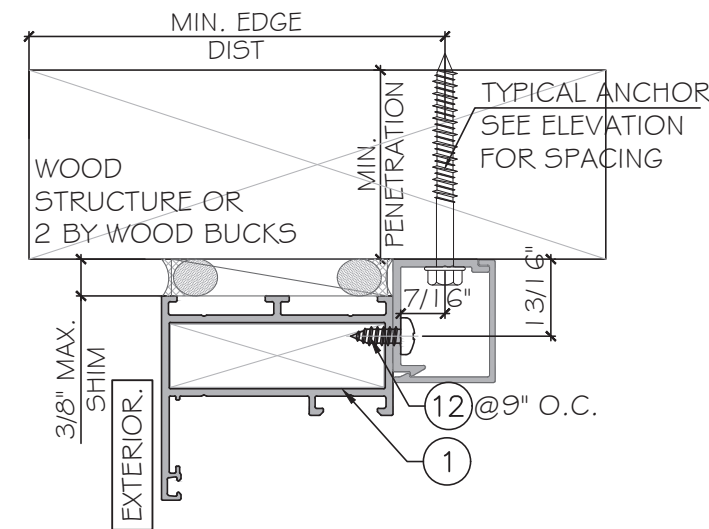
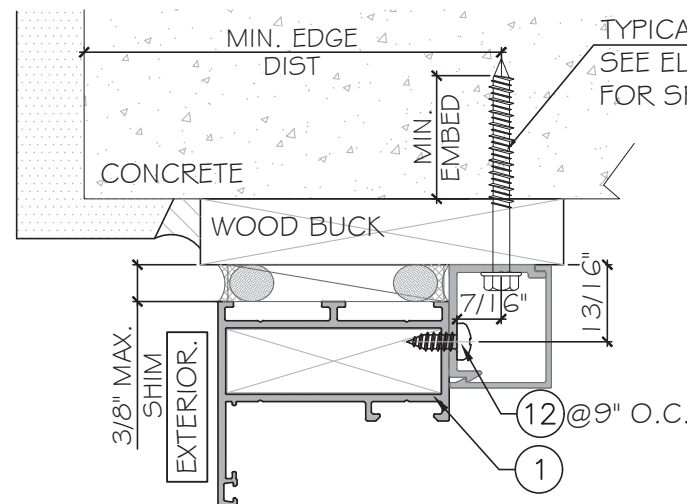
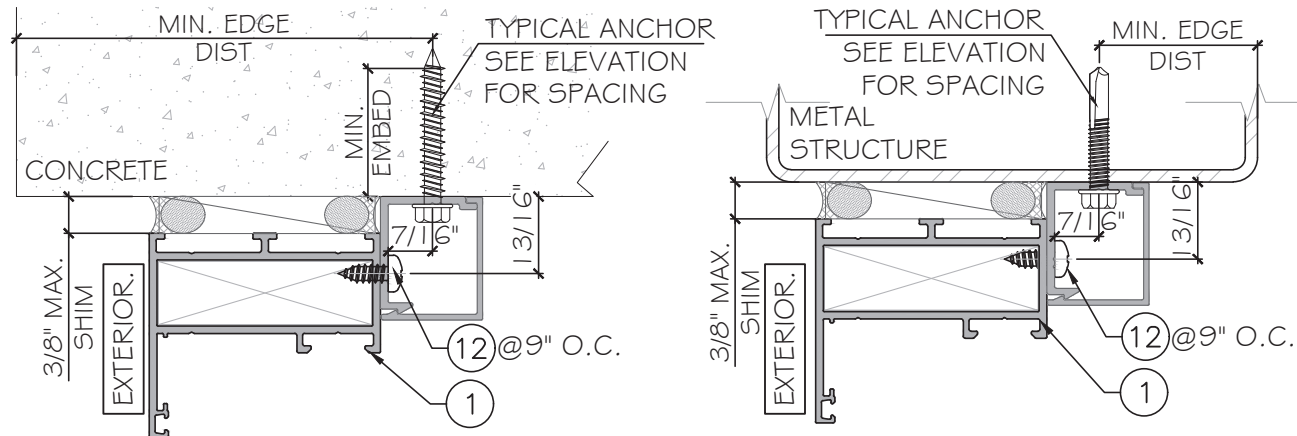
Drawn Date
02.10.2025

Scale
AS SHOWN

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AD21-39

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E2



NOTE:
METAL/ WOOD STRUCTURE BY OTHERS MUST BE DESIGNED AND ANCHORED PROPERLY TO SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

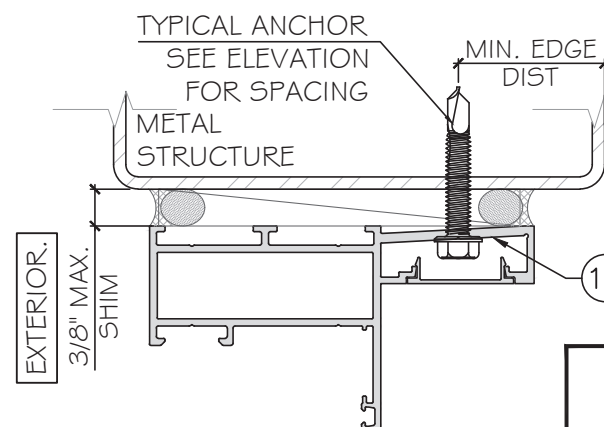
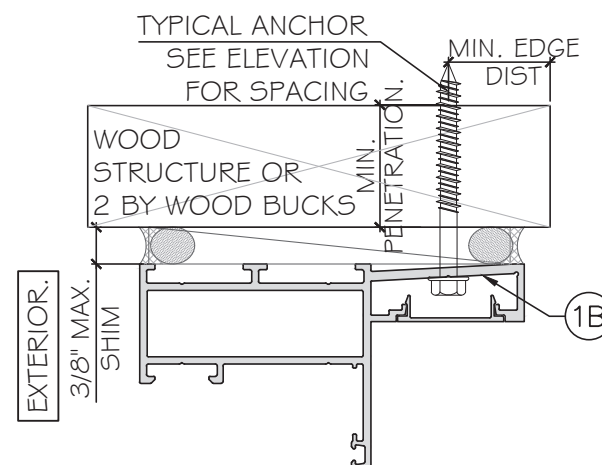
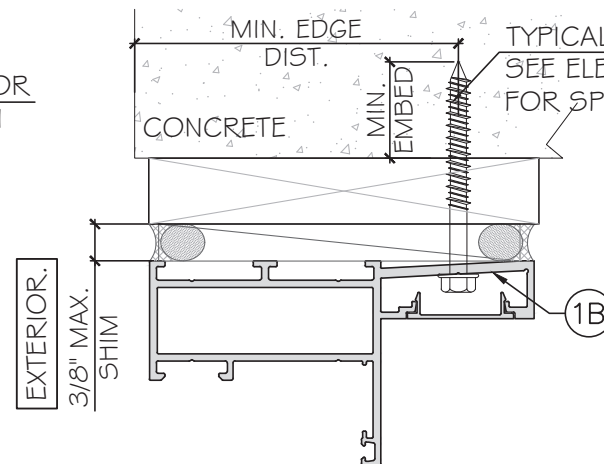
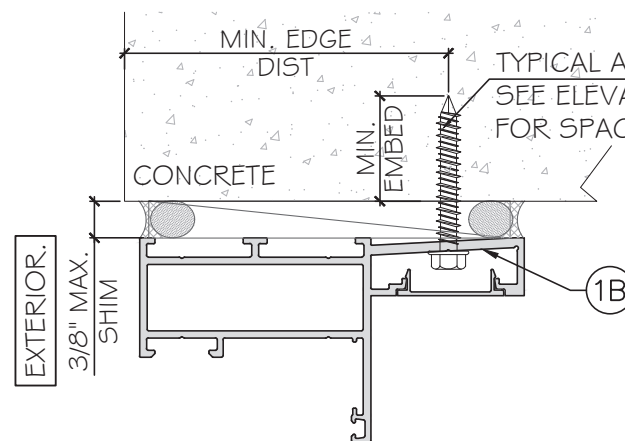
TYPICAL ANCHOR TYPES:
(SEE ELEVATIONS FOR SPACING)

TYPE 'A' -- 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164 \text{ KSI}$, $F_y = 148 \text{ KSI}$)
DIRECTLY INTO CONCRETE OR BLOCKS (HEAD/ SILL/ JAMB)
1 3/4" MIN. EMBED INTO CONCRETE (JAMB ONLY)
1 3/4" MIN. EMBED INTO HOLLOW OR GROUT FILLED BLOCKS (JAMB ONLY)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE (HEAD/ SILL/ JAMB)
WITH 1 1/2" MIN. PENETRATION INTO WOOD
THRU 1 BY WOOD BUCK INTO CONCRETE (HEAD/ SILL/ JAMB)
WITH 1 3/4" MIN. EMBED INTO CONCRETE (JAMB ONLY)
WITH 1 3/4" MIN. EMBED INTO BLOCKS

TYPE 'B' -- 1/4" DIA. SS SCREW ($F_u = 100 \text{ KSI}$, $F_y = 65 \text{ KSI}$)
OR 1/4" TEKS (GRADE 5) ($F_u = 120 \text{ KSI}$, $F_y = 92 \text{ KSI}$)
INTO METAL STRUCTURES OR FBC APPROVED MULLIONS. (HEAD/ SILL/ JAMB)
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS.
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE:
INTO CONCRETE OR BLOCKS = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.
INTO WOOD STRUCTURE = 1" MIN.

CONCRETE: $f'_c = 3000 \text{ PSI}$ MIN.
C-90 GROUT FILED BLOCK: $f'_m = 2000 \text{ PSI}$ MIN.
WOOD: $SG = 0.55$ MIN.
STEEL: 1/8" THK. MIN. (A36 MIN.)
ALUMINUM: 1/8" THK MIN. (6063-T5 MIN.)

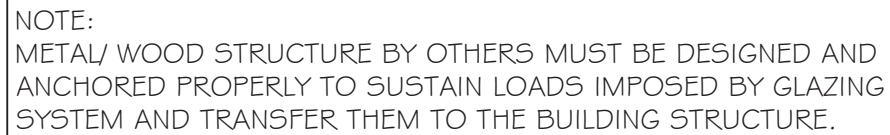


FLORIDA APPROVAL:
FL#40279

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
FL #55983
CA #55987

February 17th, 2025

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SUBSTRATE
WOOD: SG=0.55 MIN.
ALUMINUM: 1/8" THK. MIN. (G063-T5, MIN.)
STEEL: 12 GA MIN. ASTM A653 GRADE 33 (F_y=33ksi) MIN.
(STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED)



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MIRAMAR, FL 33027 P: 305.271.0100

www.MCYEngineering.com mcy@mcyengineering.com

SP60 FIXED WINDOW - L.M.I.

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
SHANG HAI CHINA
TEL.86 021-5822 0630 CELL.86 135-8572-3609

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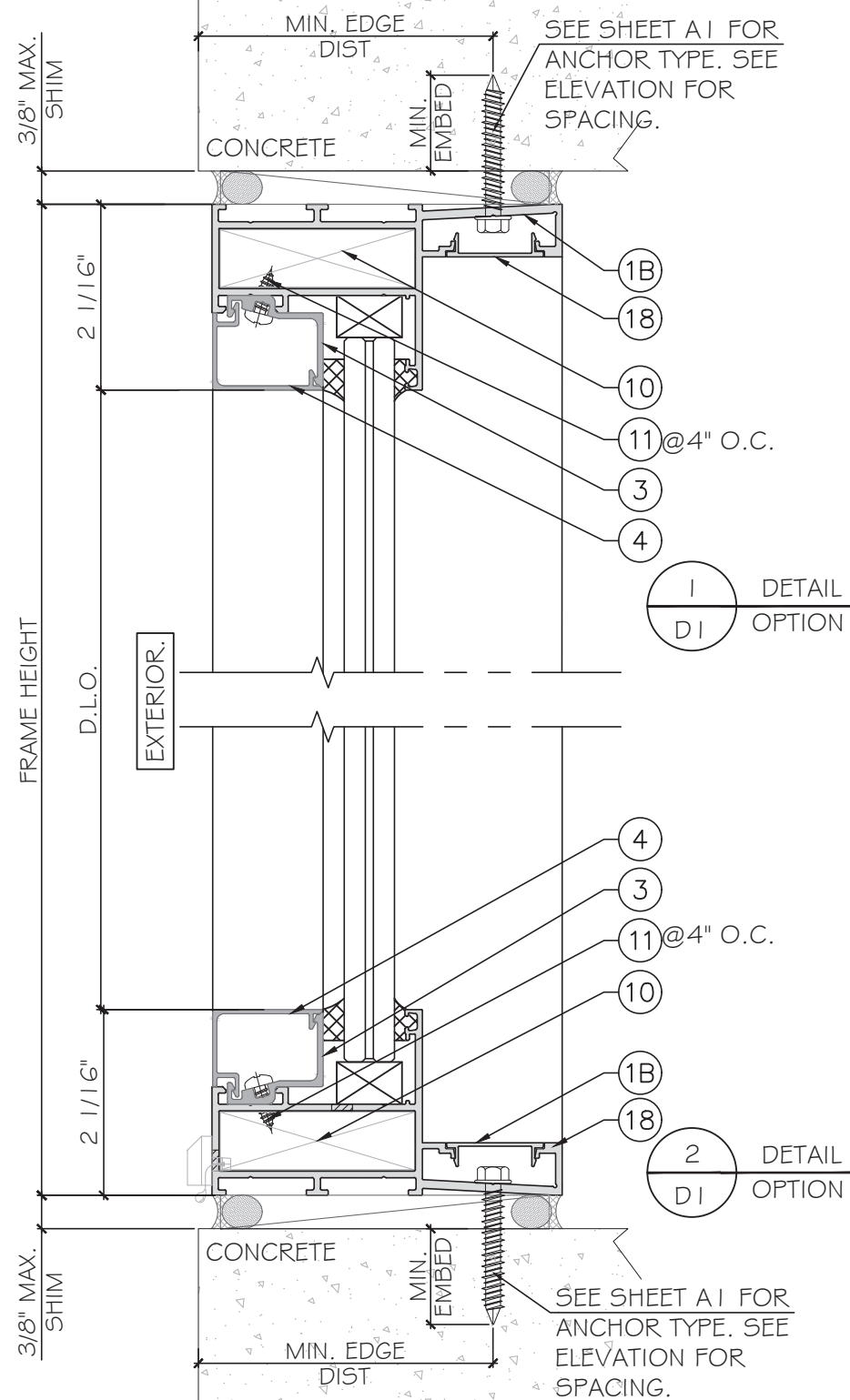
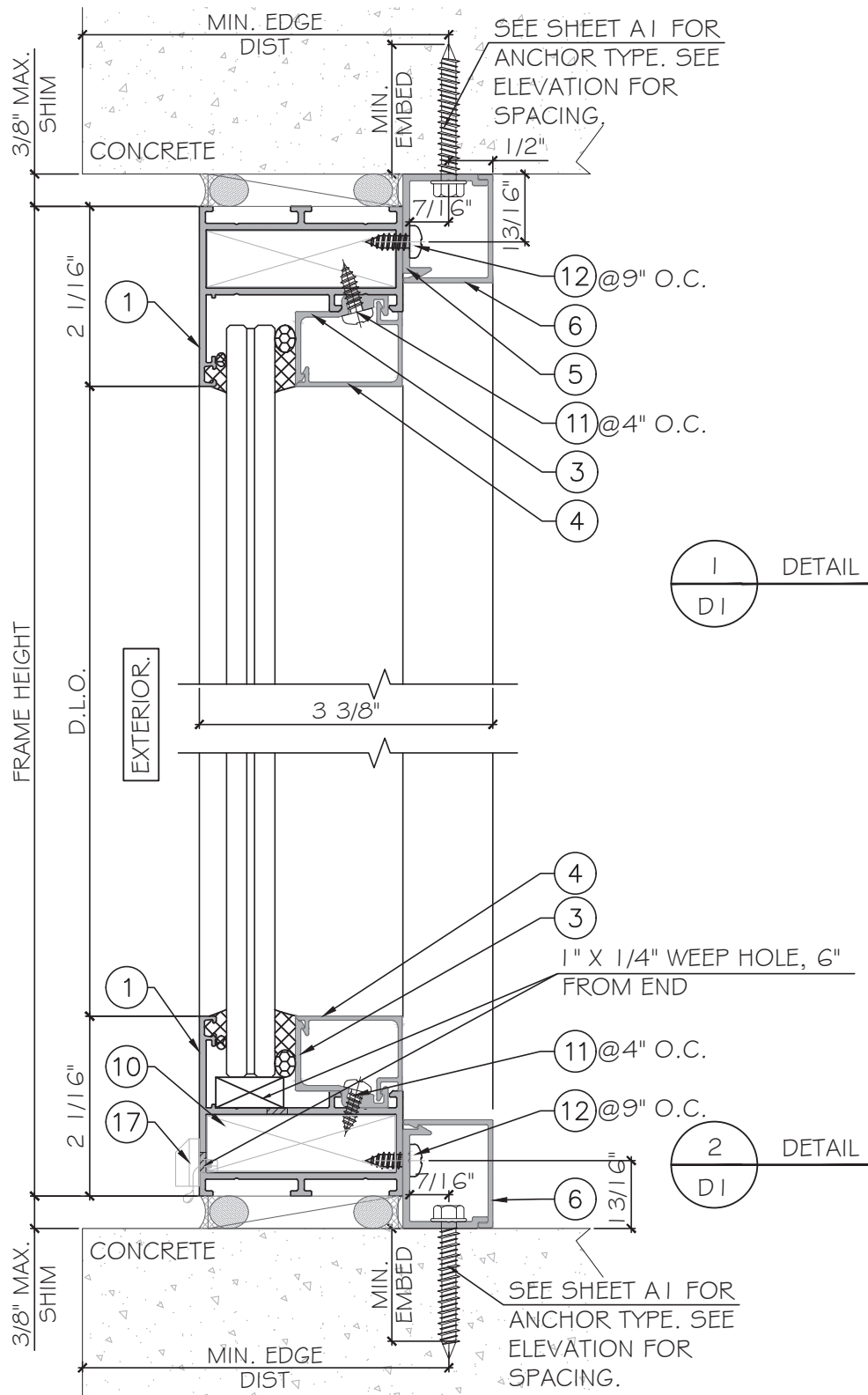
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02.10.2025	AS SHOWN

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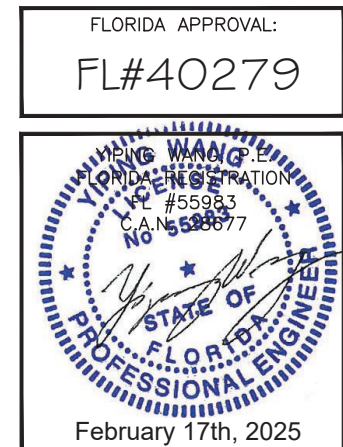
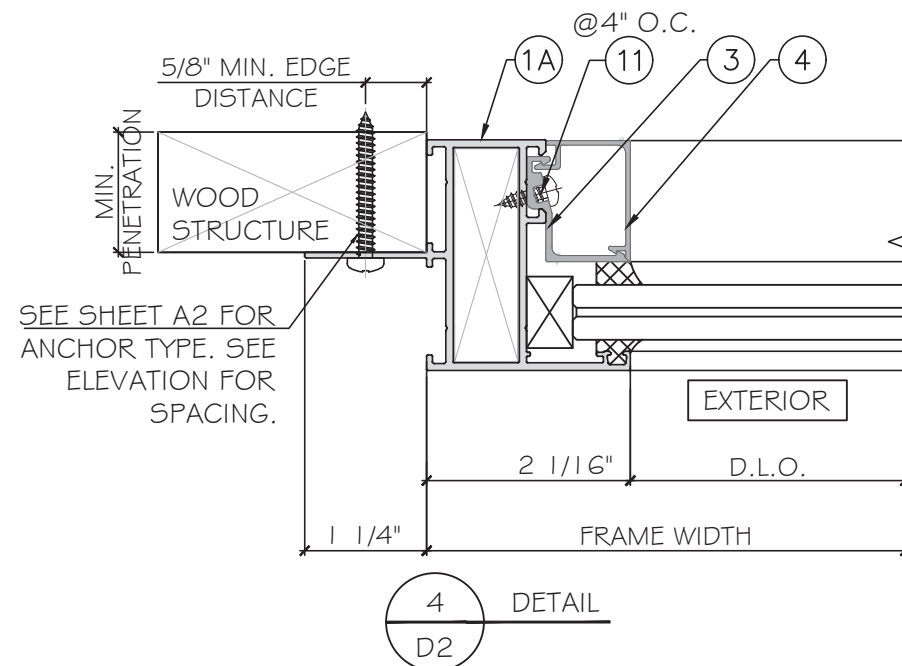
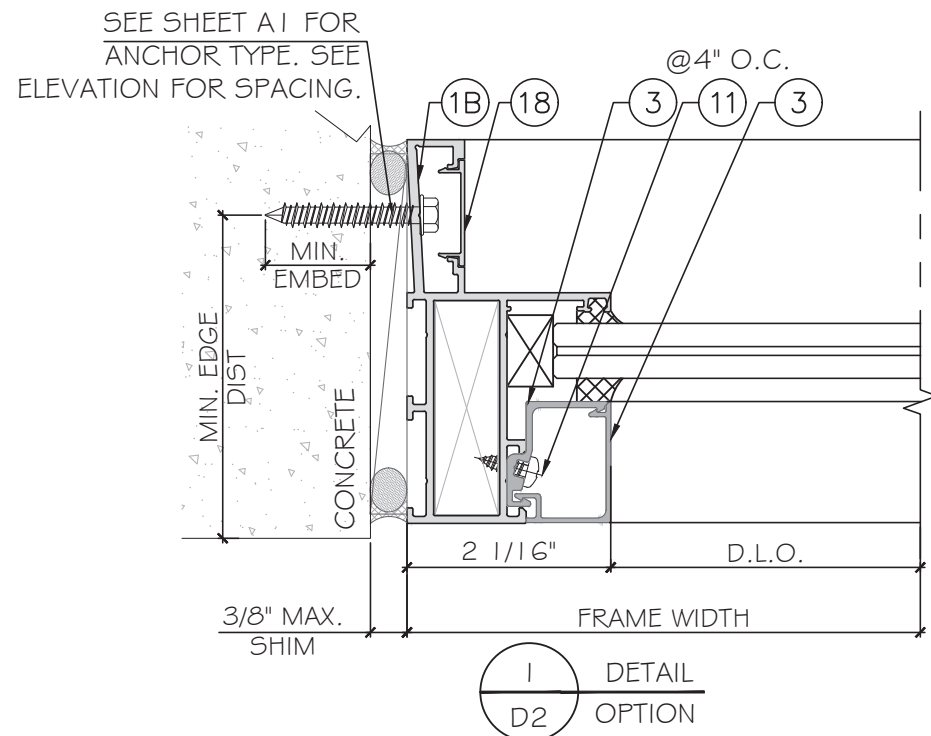
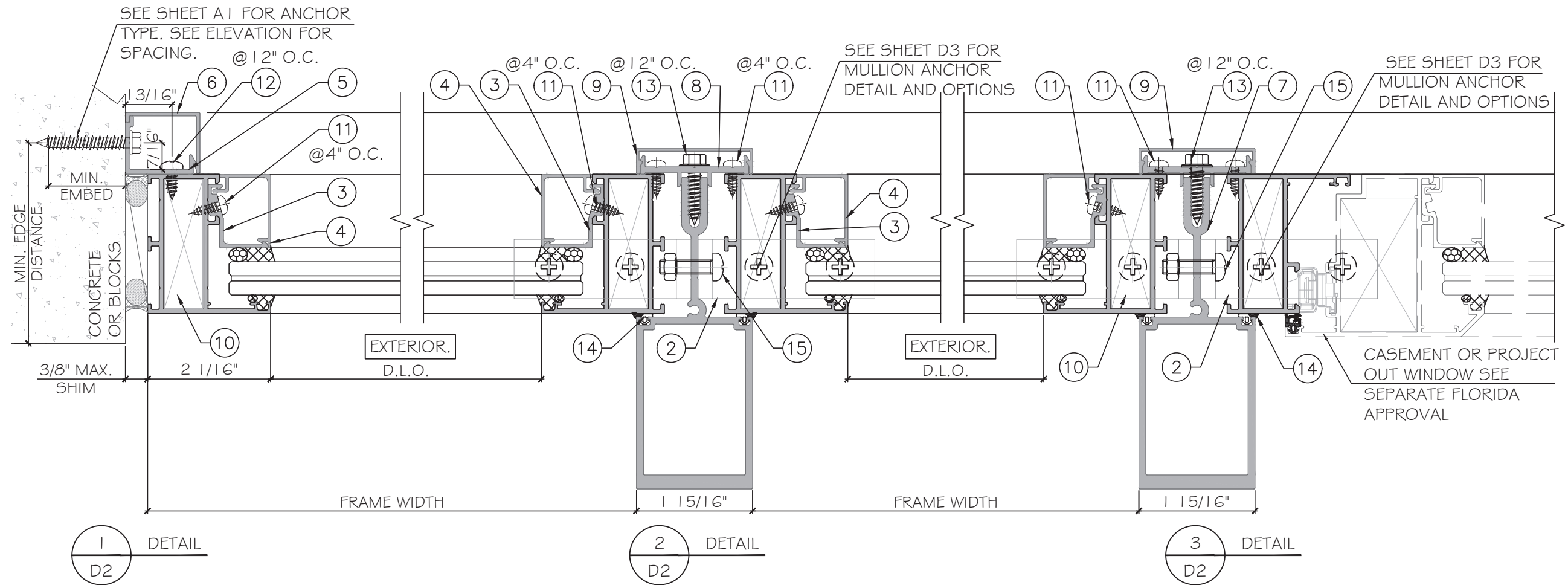
FLORIDA APPROVAL:

FL#40279

YIPING WANG, P.E.
FLORIDA REGISTRATION
#55983
CA# 138677

February 17th, 2025

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SP60 FIXED WINDOW - L.M.I. SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA SHANG HAI, CHINA TEL.86 021-5822 0630 CELL.86 135-8572-3609			
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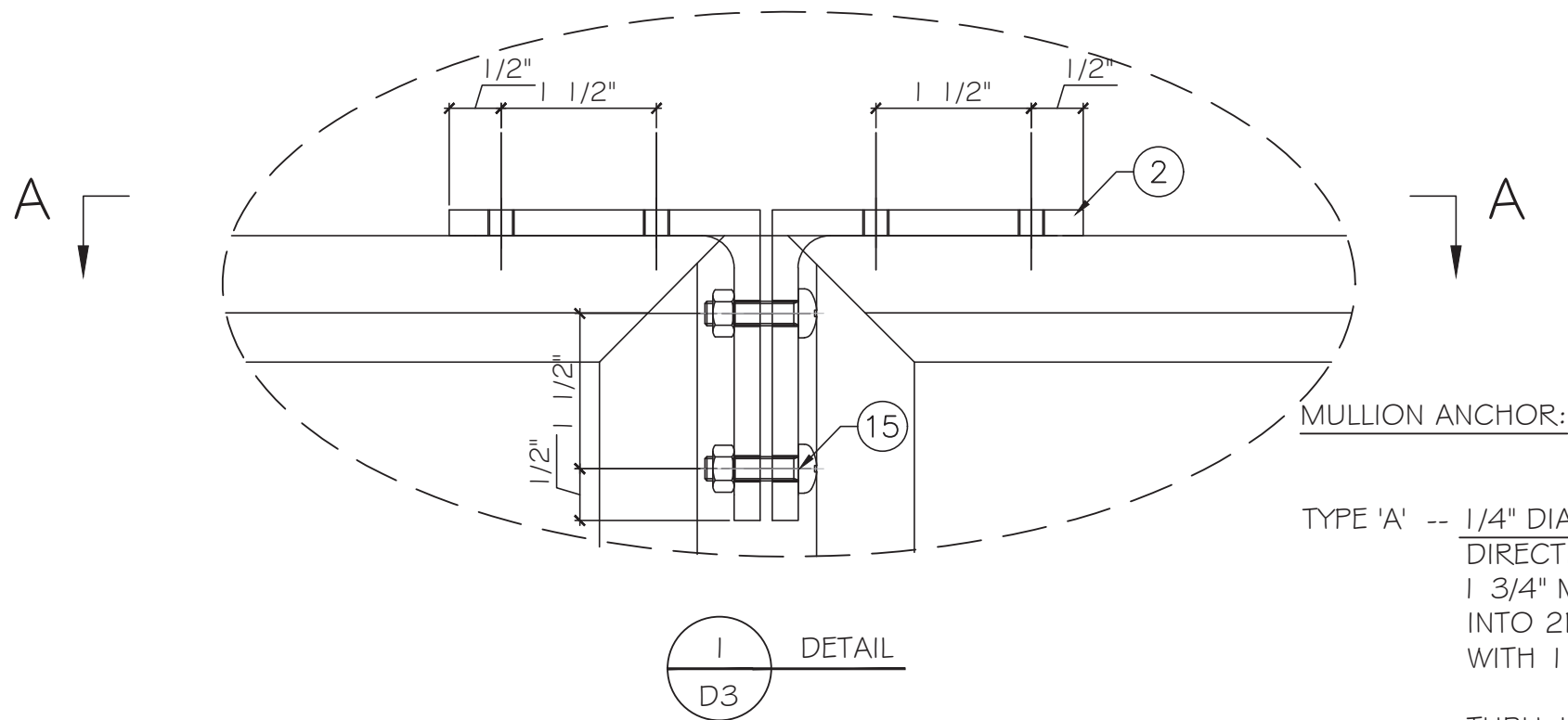


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Drawn Date	Scale
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MULLION ANCHOR:

TYPE 'A' -- 1/4" DIA. ULTRACON+ BY 'DEWALT' ($F_u = 164$ KSI, $F_y = 148$ KSI)
DIRECTLY INTO CONCRETE ONLY
1 3/4" MIN. EMBED INTO CONCRETE
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
WITH 1 1/2" MIN. PENETRATION INTO WOOD

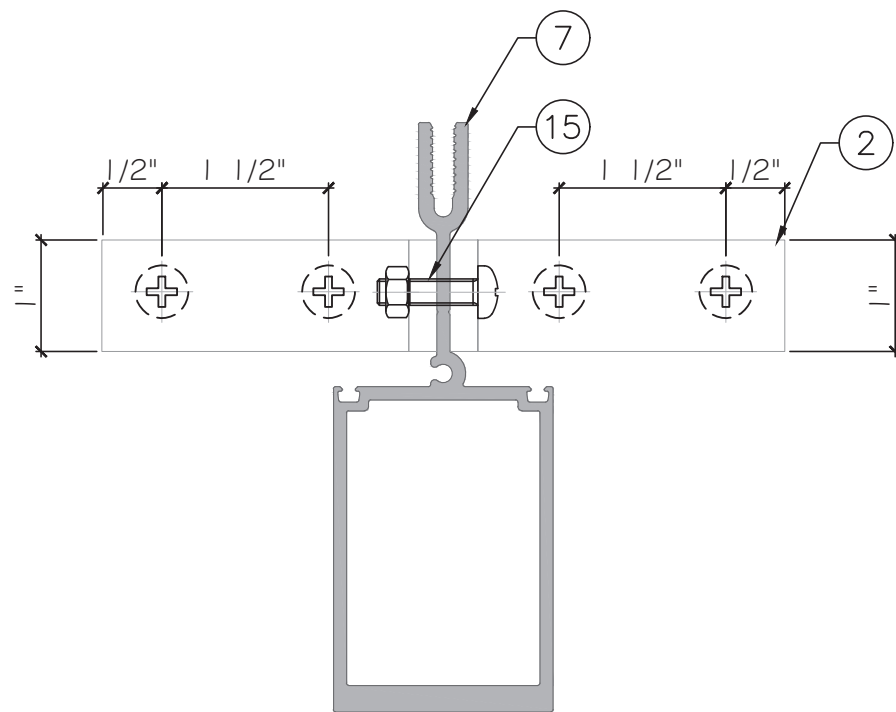
THRU 1 BY WOOD BUCK INTO CONCRETE
WITH 1 3/4" MIN. EMBED INTO CONCRETE

TYPE 'B' -- 1/4" DIA. SS SCREW ($F_u = 100$ KSI, $F_y = 65$ KSI)
1/4" DIA. TEKS ($F_u = 120$ KSI, $F_y = 92$ KSI)
INTO METAL STRUCTURE OR FBC APPROVED MULLIONS.
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

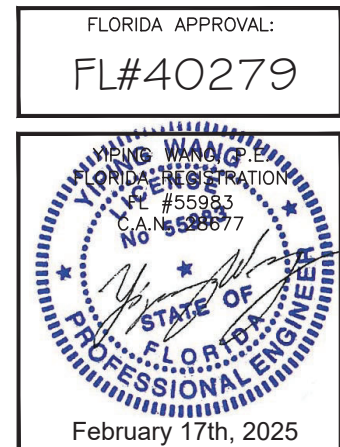
TYPICAL EDGE DISTANCE
INTO CONCRETE = 2-1/2" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

SUBSTRATE
CONCRETE: $f'_c = 3000$ PSI MIN.
WOOD: SG=0.55 MIN.
STEEL: 1/8" THK. MIN. (A36 MIN.)
ALUMINUM: 1/8" THK MIN. (6063-T5 MIN.)

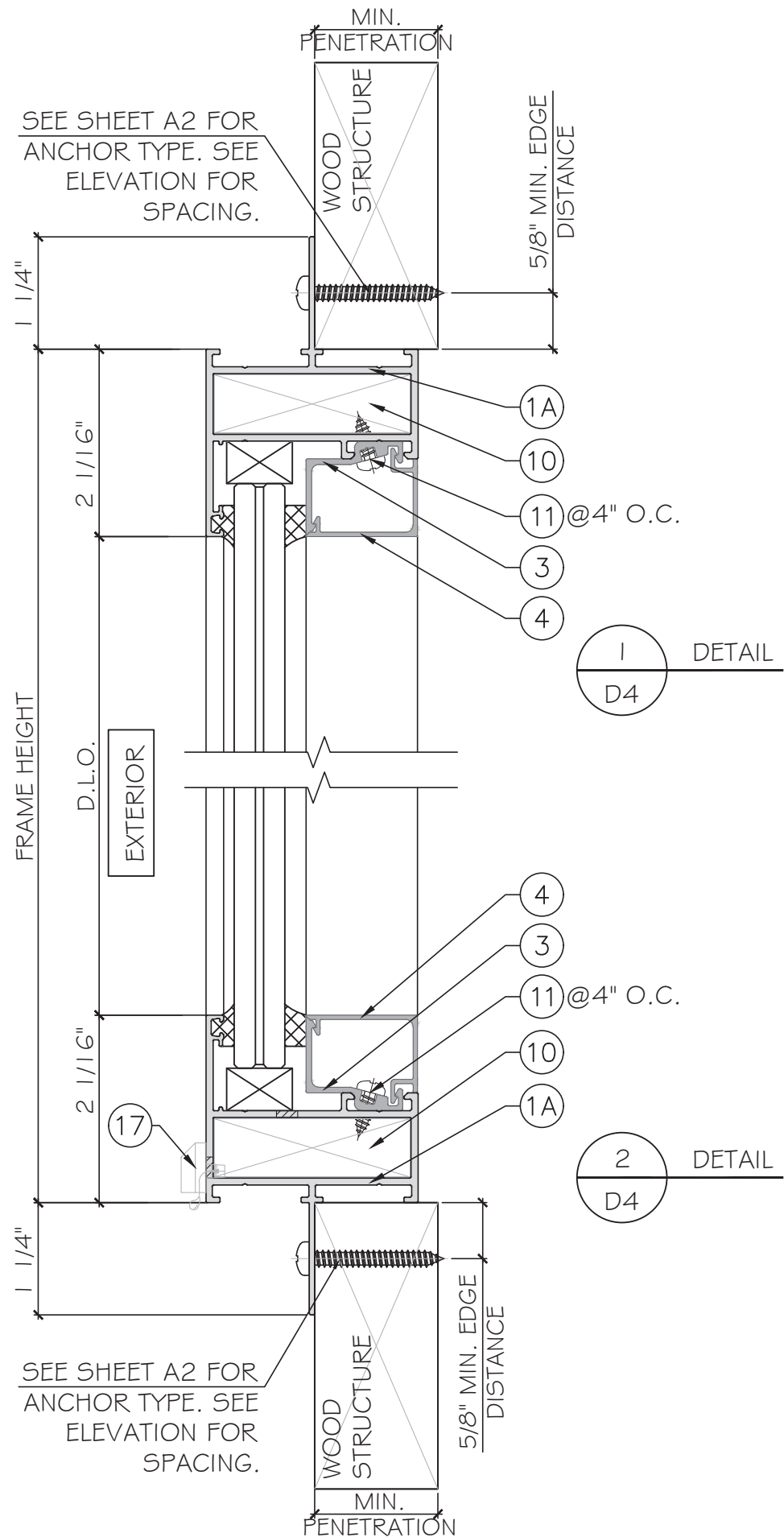
FOR CONDITION NOT COVERED, TO BE CHECKED
BY DELEGATED ENGINEER ON JOB BASES.



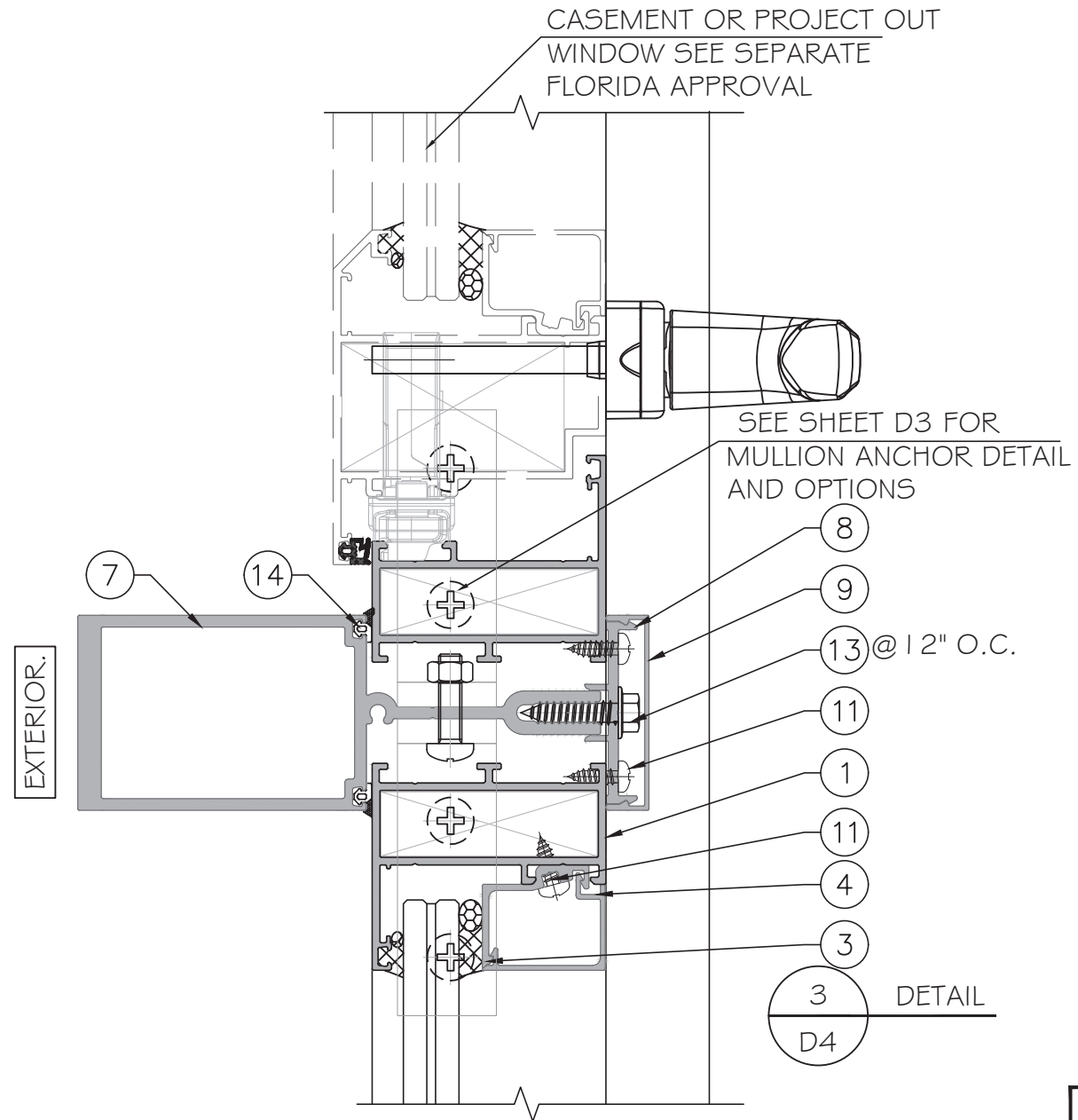
SECTION A-A



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NOTE:
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FLORIDA APPROVAL:
FL#40279

YIPING WANG
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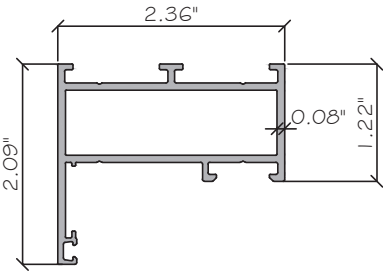
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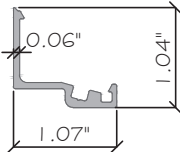
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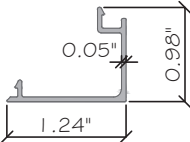
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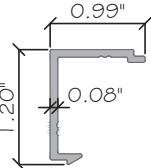
① FRAME SP6001
ALUM. 6063-T5



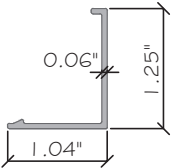
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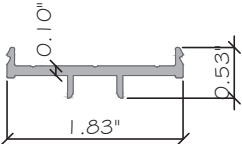
④ GLASS STOP GLB032
ALUM. 6063-T5



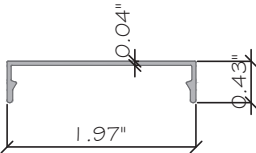
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ALUM. 6063-T5



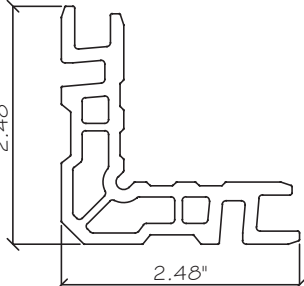
⑥ COVER SP6052
ALUM. 6063-T5



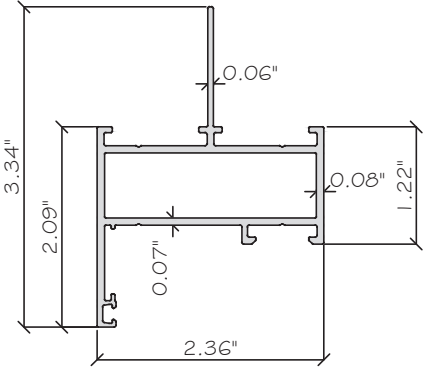
⑧ PRESSURE BAR
SP6008
ALUM. 6063-T5



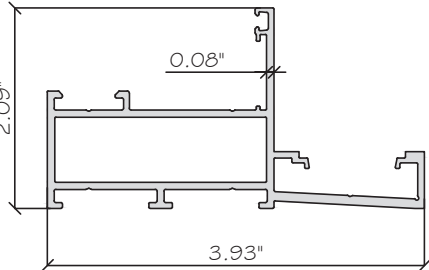
⑨ COVER
SP6009
ALUM. 6063-T5



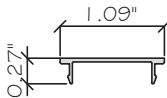
⑩ CLAMPING CORNER
JM0022
ALUM. 6063-T5



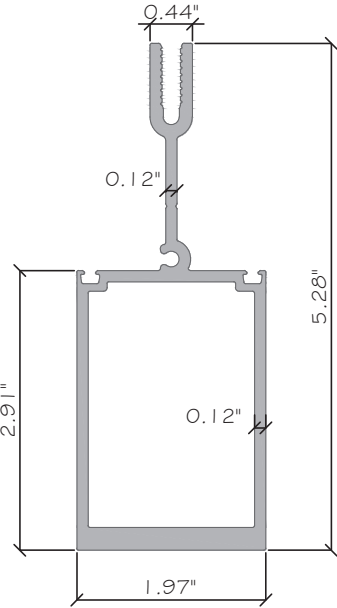
①A FRAME SP6001F
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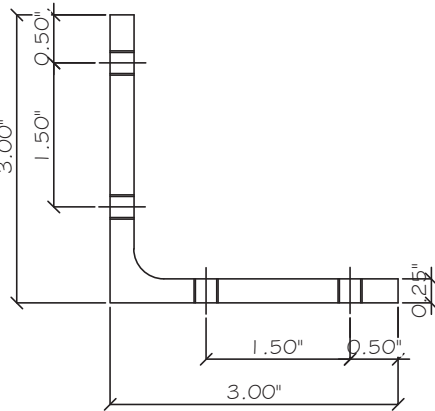
①B FRAME SP6001C
ALUM. 6063-T5



①B COVER SPA13006
ALUM. 6063-T5

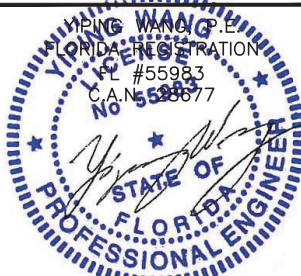


⑦ STACKING MULLION
SP6007
ALUM. 6063-T5



② MULLION CLIP
ZL-758
ALUM. 6063-T5

FLORIDA APPROVAL:
FL#40279



February 17th, 2025

Rev. No.	Date	Drawn By	Description
4.	02.10.2025	JAMES	REVISION
3.	01.03.2024	JAMES	REVISION
2.	08.16.2023	JAMES	FBC 2023 UPDATE
1.	11.25.2021	JAMES	NEW APPLICATION

Drawn Date
02.10.2025

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PARTS

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MCY

ENGINEERING, INC.

GLAZING CONSULTANTS

12781 MIRAMAR PKWY, STE. 301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

SP60 FIXED WINDOW - L.M.I.

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
SHANG HAI, CHINA
TEL.86 021-5822 0630 CELL.86 135-8572-3609

BILL OF MATERIALS				
ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
I	SP600 I	FRAME	6063-T5	SUPERHOUSE
IA	SP600 I F	FIN FRAME	6063-T5	SUPERHOUSE
IB	SP600 I C	FRAME	6063-T5	SUPERHOUSE
2	ZL-758	MULLION CLIP	6063-T5	SUPERHOUSE
3	GLA032	GLASS STOP	6063-T5	SUPERHOUSE
4	GLB032	GLASS STOP COVER	6063-T5	SUPERHOUSE
5	SP605 I	CLIP	6063-T5	SUPERHOUSE
6	SP6052	COVER	6063-T5	SUPERHOUSE
7	SP6007	STACKING MULLION	6063-T5	SUPERHOUSE
8	SP6008	PRESSURE BAR	6063-T5	SUPERHOUSE
9	SP6009	COVER	6063-T5	SUPERHOUSE
IO	JMO022	CLAMPING CORNER	6063-T5	SUPERHOUSE
II	--	5/32" DIA. X 1/2" PAN HEAD SCREW	STAINLESS STEEL	VARIES
I2	--	#14 X 1/2" S.S. SCREW, 4" FROM EACH END, @9" O.C. Fu=100 PSI, Fy=65 PSI.	STAINLESS STEEL	VARIES
I3	--	1/4" DIA. X 3 1/32" HEX HEAD SCREW	STAINLESS STEEL	VARIES
I4	SBWG-002	EPDM GASKET	EPDM	DURO 30 +/- 5
I5	--	1/4" DIA. X 3 1/32" PAN HEAD S.S. SCREW, WITH DIA. 1/4" NUT, (2) AT EACH MULLION END, Fu=100 PSI, Fy=65 PSI.	STEEL	VARIES
I6	--	1/4" X 1", SETTING BLOCK	PP	75 +/- 2A DURO.
I7	--	WEEP HOLE COVER, 5/16 X 1-1/32"	PP	VARIES
I8	SPA13006	COVER	6063-T5	SUPERHOUSE

FLORIDA APPROVAL:
FL#40279

YOUNG WANG P.E.
FLORIDA REGISTRATION
#55983
CAN 558677

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

February 17th, 2025

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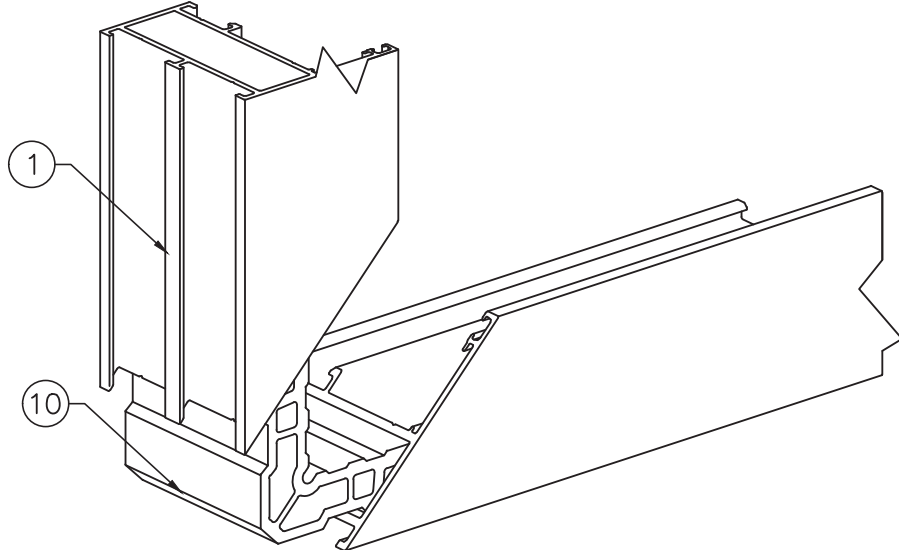
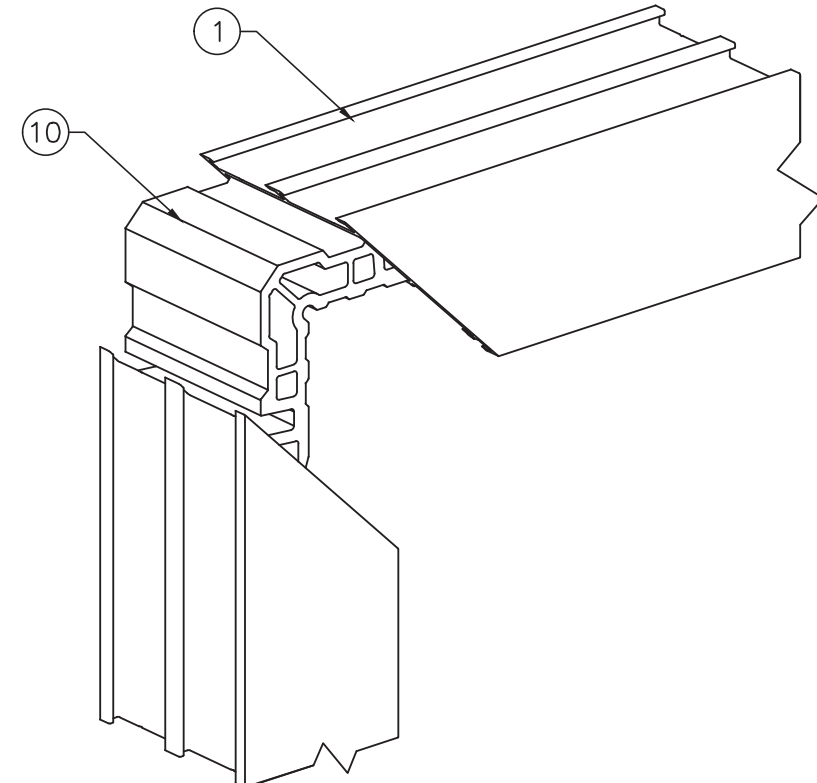
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FRAME CORNER

FLORIDA APPROVAL:
FL#40279

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FLORIDA REGISTRATION
#55983
CAN 558677

February 17th, 2025

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ASSEMBLY

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