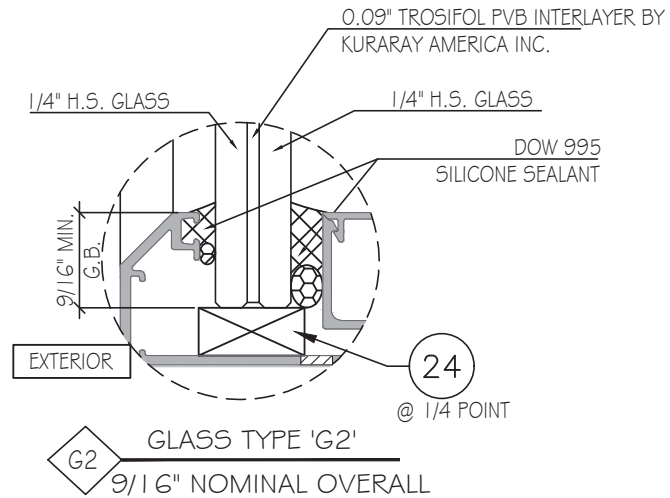


SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
SP60 CASEMENT WINDOW LARGE MISSILE IMPACT



GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 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 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.

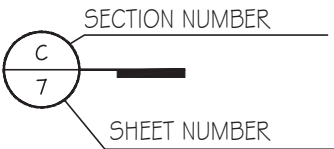
NOTE:
GLASS COMPLIES WITH ASTM E1300-09 (3 SEC. GUSTS).

USE CHARTS AS FOLLOWS.

- STEP 1: DETERMINE DESIGN WIND LOAD REQUIREMENTS BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7-22 STANDARD OR WIND TUNNEL REPORTS.
- STEP 2: SEE SHEET E1 & E2 FOR APPROVED TYPICAL ELEVATION & CONFIGURATION.
- STEP 3: ANCHOR OPTION SEE SHEET A1 & A2. ANCHOR LAYOUT SEE SHEET E1 & E2.
- STEP 4: THE LOWEST VALUE RESULTING FROM STEPS 2 & 3 THAT EXCEED THE DESIGN WIND PRESSURES DETERMINED THRU STEP 1 SHALL APPLY TO ENTIRE SYSTEM.

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



- 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. ENGINEER OF RECORD, ACTING AS A 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:

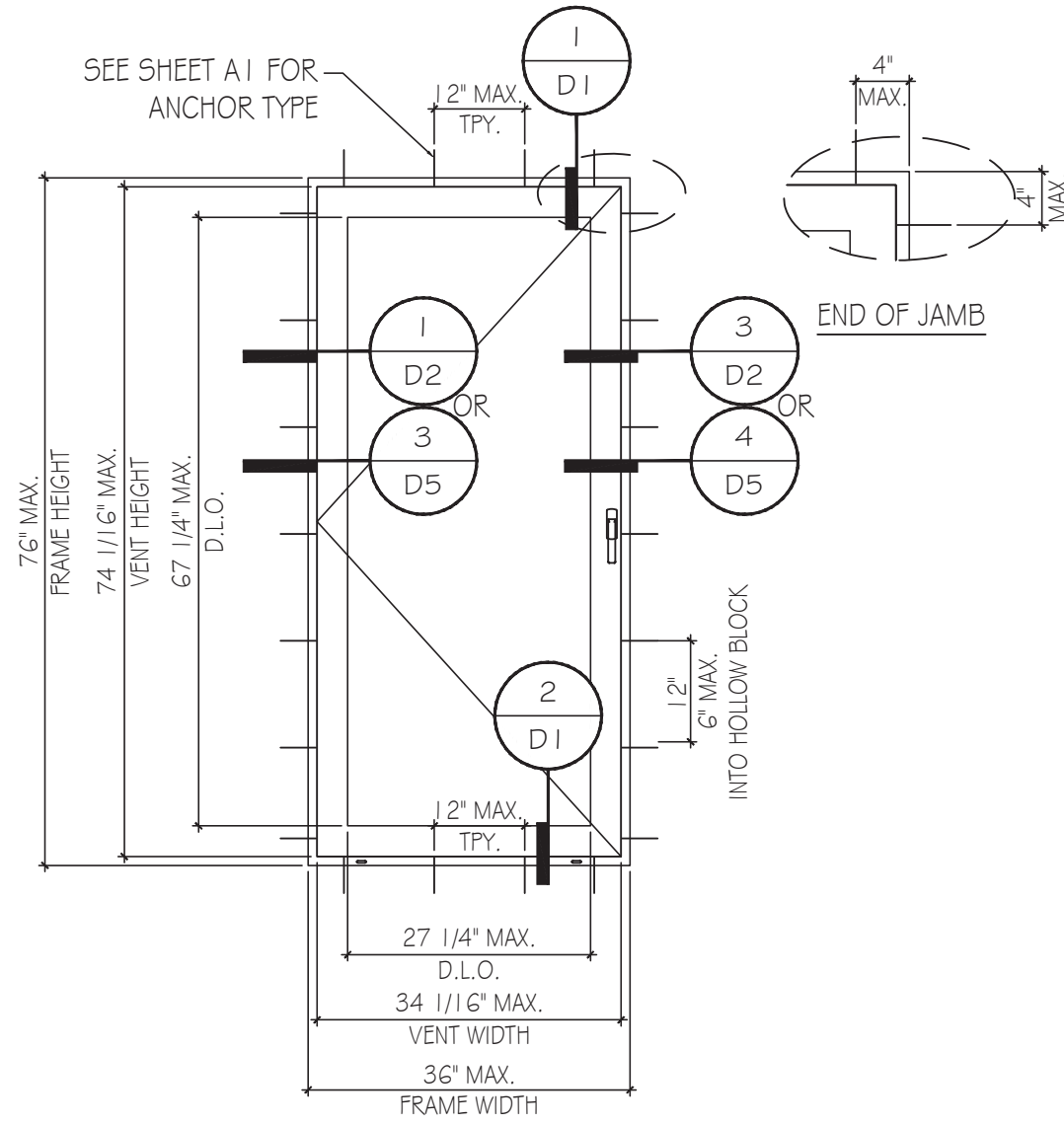
FL#41884



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

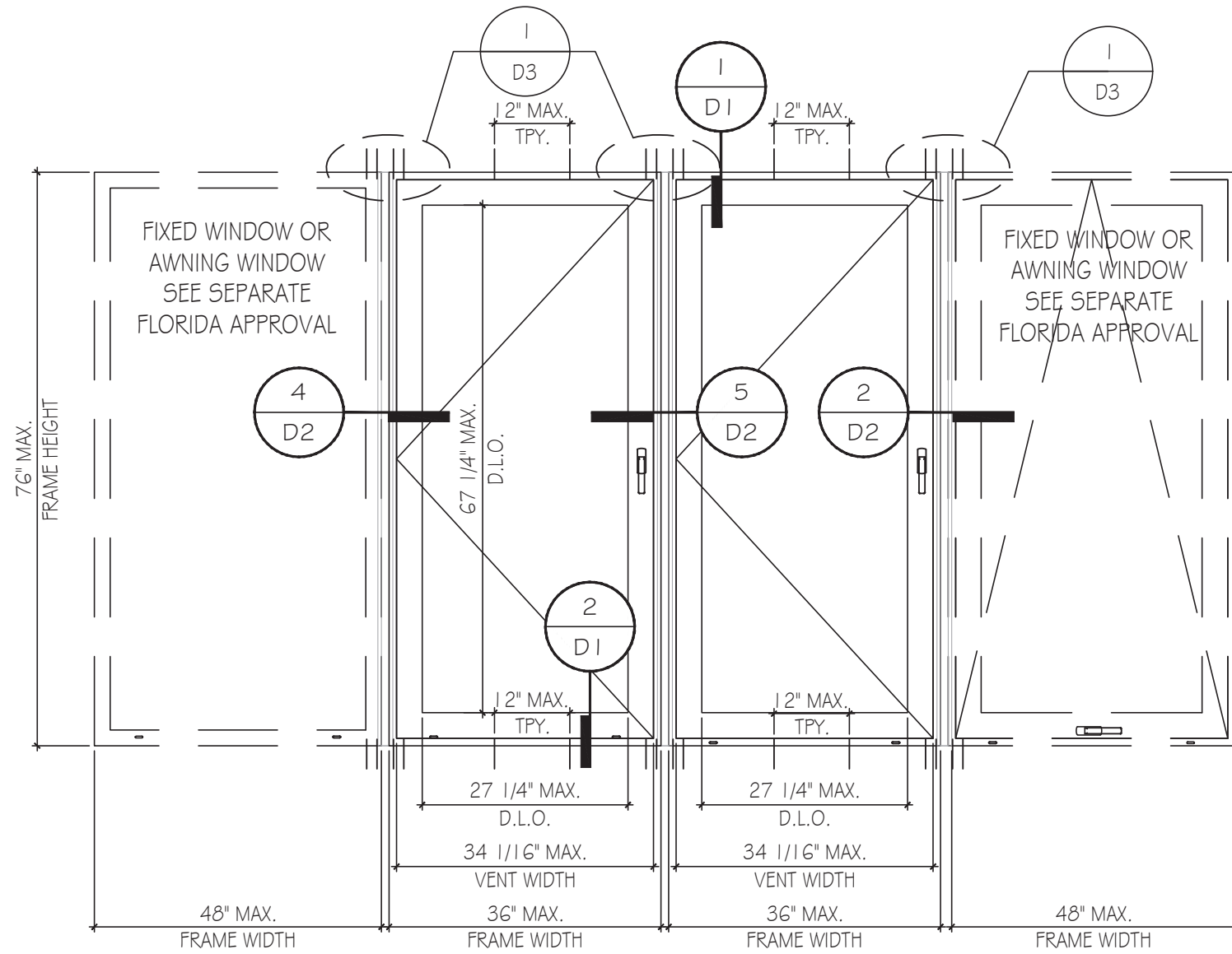
SP60 CASEMENT WINDOW - L.M.I.
SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
SHANG HAI, CHINA
TEL.86 021-5822 0630 CELL.86 135-8572-3609

Drawn Date	Scale	DRAWING NO.	COVER	Sheet No.
01.09.2025	AS SHOWN	AD23-02		1 OF 13



TYPICAL EXTERIOR ELEVATION

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



TYPICAL EXTERIOR ELEVATION

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

FLORIDA APPROVAL:
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Drawn Date
01.09.2025

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E1



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

FLORIDA APPROVAL:

FL#41884

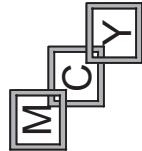
YOUNG WANG & ASSOCIATES, P.A.
ONLINE REGISTRATION
#55983
E.A.N. 28877
No 55887
STATE OF FLORIDA
PROFESSIONAL ENGINEER
February 17th, 2025

[illegible]

SP60 CASEMENT WINDOW - L.M.I.

SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA
SHANG HAI, CHINA
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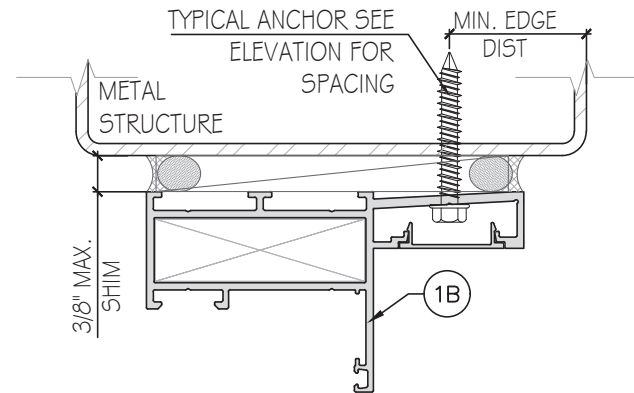
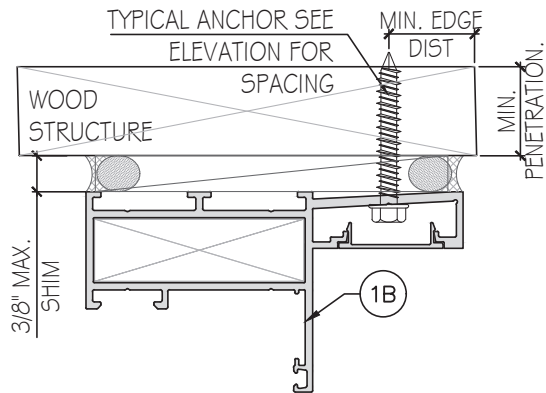
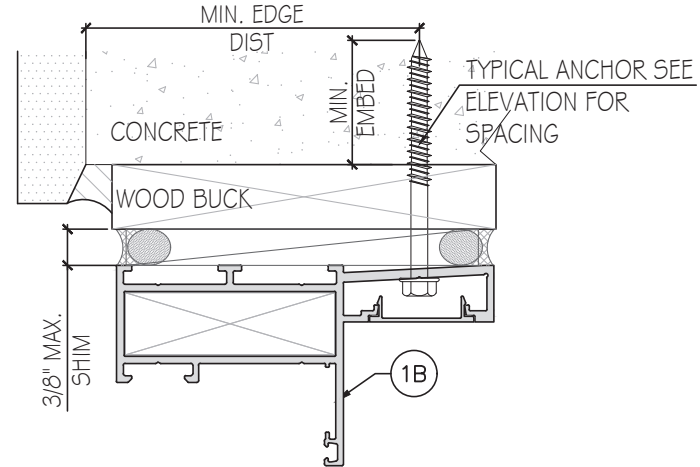
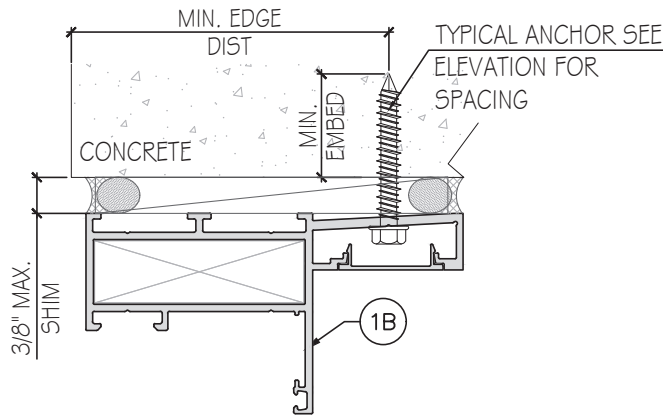
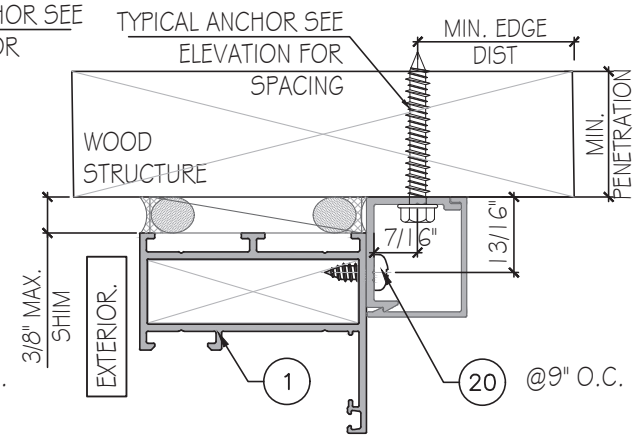
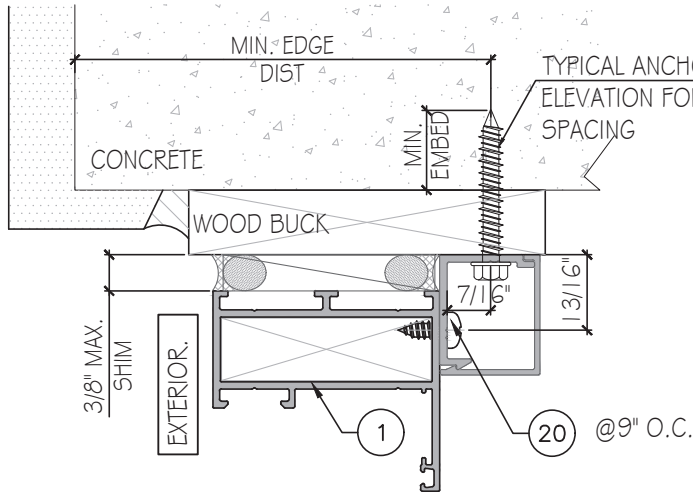
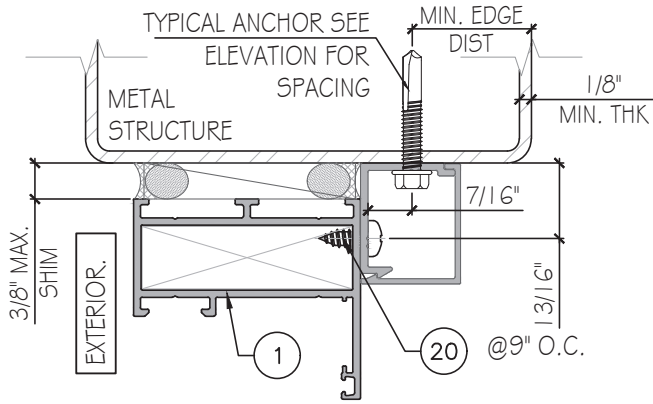
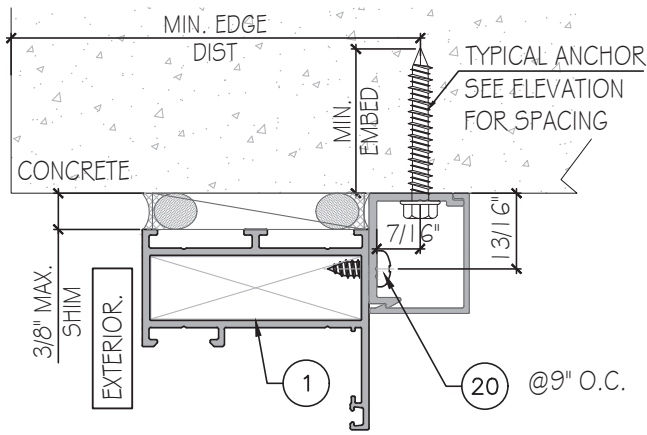
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ering.com mcy@mcengineering.com

www.MCYEngineering.com



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 KSI, F_y=148 KSI)
DIRECTLY INTO CONCRETE OR BLOCKS
1 3/4" MIN. EMBED INTO CONCRETE
1 3/4" MIN. EMBED INTO HOLLOW OR GROUT FILLED BLOCKS
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
WITH 1 1/2" MIN. PENETRATION INTO WOOD

(HEAD/ SILL/ JAMB)
(JAMB ONLY)

(HEAD/ SILL/ JAMB)

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

(HEAD/ SILL/ JAMB)
(JAMB ONLY)

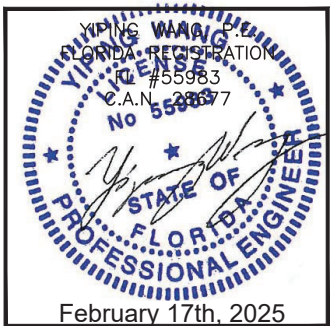
TYPE 'B' -- 1/4" DIA. SS SCREW (F_u=100 KSI, F_y= 65 KSI)
OR 1/4" TEKS (GRADE 5) (F_u=120KSI, F_y= 92KSI)
INTO METAL STRUCTURES OR FBC APPROVED MULLIONS.
(3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS.
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

(HEAD/ SILL/ JAMB)

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

SUBSTRATE
CONCRETE AT HEAD, SILL OR JAMB f'_c=3000PSI MIN.
C-90 GROUT FILED BLOCK AT JAMB f'_m=2000 PSI MIN.
WOOD SG=0.55 MIN.
ALUMINUM: 1/8" THK. MIN. (6063-T5 MIN.)
STEEL: 1/8" THK. MIN. (A36 MIN.)

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Drawn Date	01.09.2025	Scale	AS SHOWN
DRAWING NO. AD23-02			
A1			
Sheet No. 4 OF 13			

NOTE:
METAL/ WOOD STRUCTURE BY OTHERS MUST BE DESIGNED AND
ANCHORED PROPERLY TO SUSTAIN LOADS IMPOSED BY GLAZING
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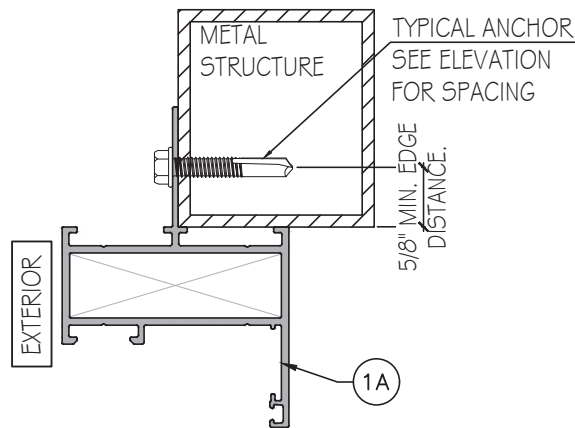
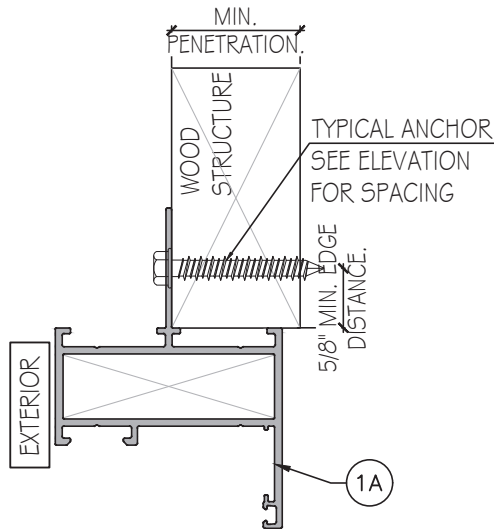
TYPICAL ANCHOR TYPES:
(SEE ELEVATIONS FOR SPACING)

TYPE 'A' -- 3/16" DIA. ULTRACON BY 'DEWALT' (F_u=164 KSI, F_y=117 KSI)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
WITH 1 1/2" MIN. PENETRATION. (HEAD/ SILL/ JAMB)

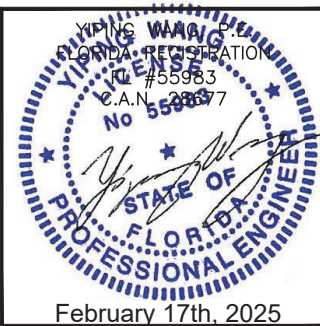
TYPE 'B' -- #12 SS SELF-DRILLING SCREW ($F_u=100$ KSI, $F_y=65$ KSI)
 INTO F.B.C. APPROVED MULLIONS OR METAL STRUCTURES. (HEAD/ SILL/ JAMB)
 (3) THREADS MIN. TO EXTEND BEYOND METAL THICKNESS.
 (STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED).

TYPICAL EDGE DISTANCE
 INTO METAL STRUCTURE = 5/8" MIN.
 INTO WOOD STRUCTURE = 5/8" MIN.

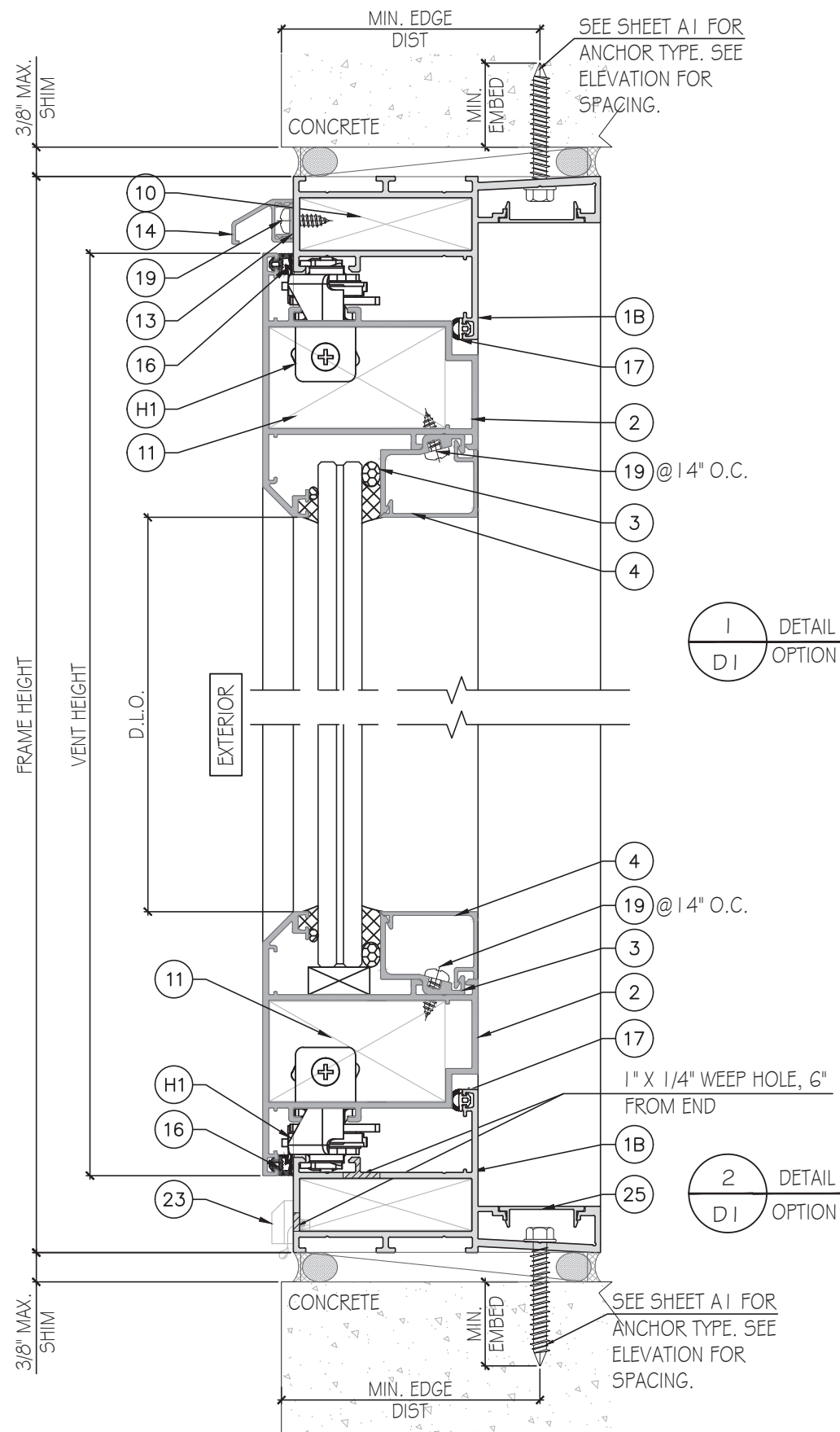
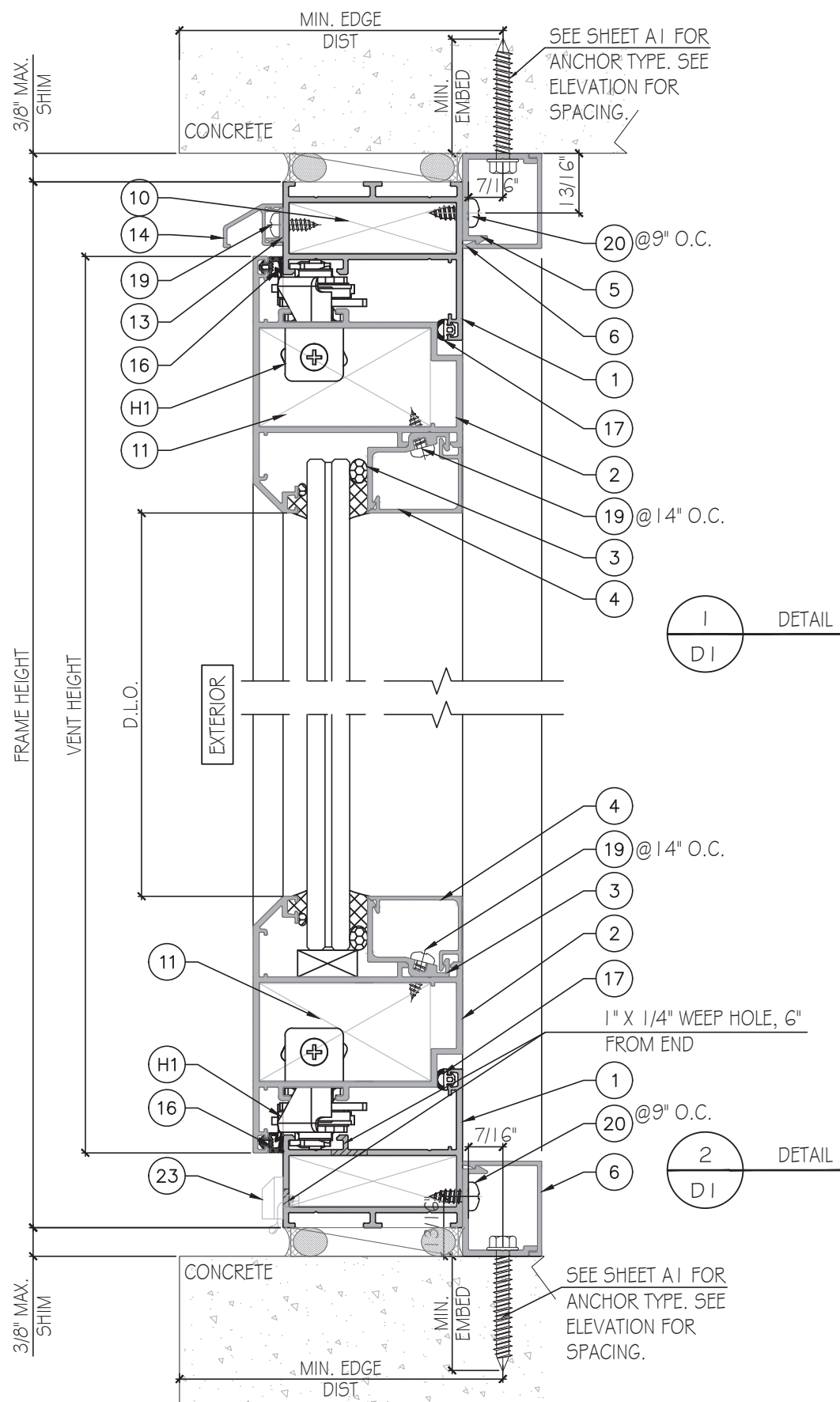
SUBSTRATE
WOOD: SG=0.55 MIN.
ALUMINUM: 1/8" THK. MIN. (G063-T5, MIN.)
STEEL: 12 GA MIN. ASTM A653 GRADE 33 (Fy=33ksi) MIN.



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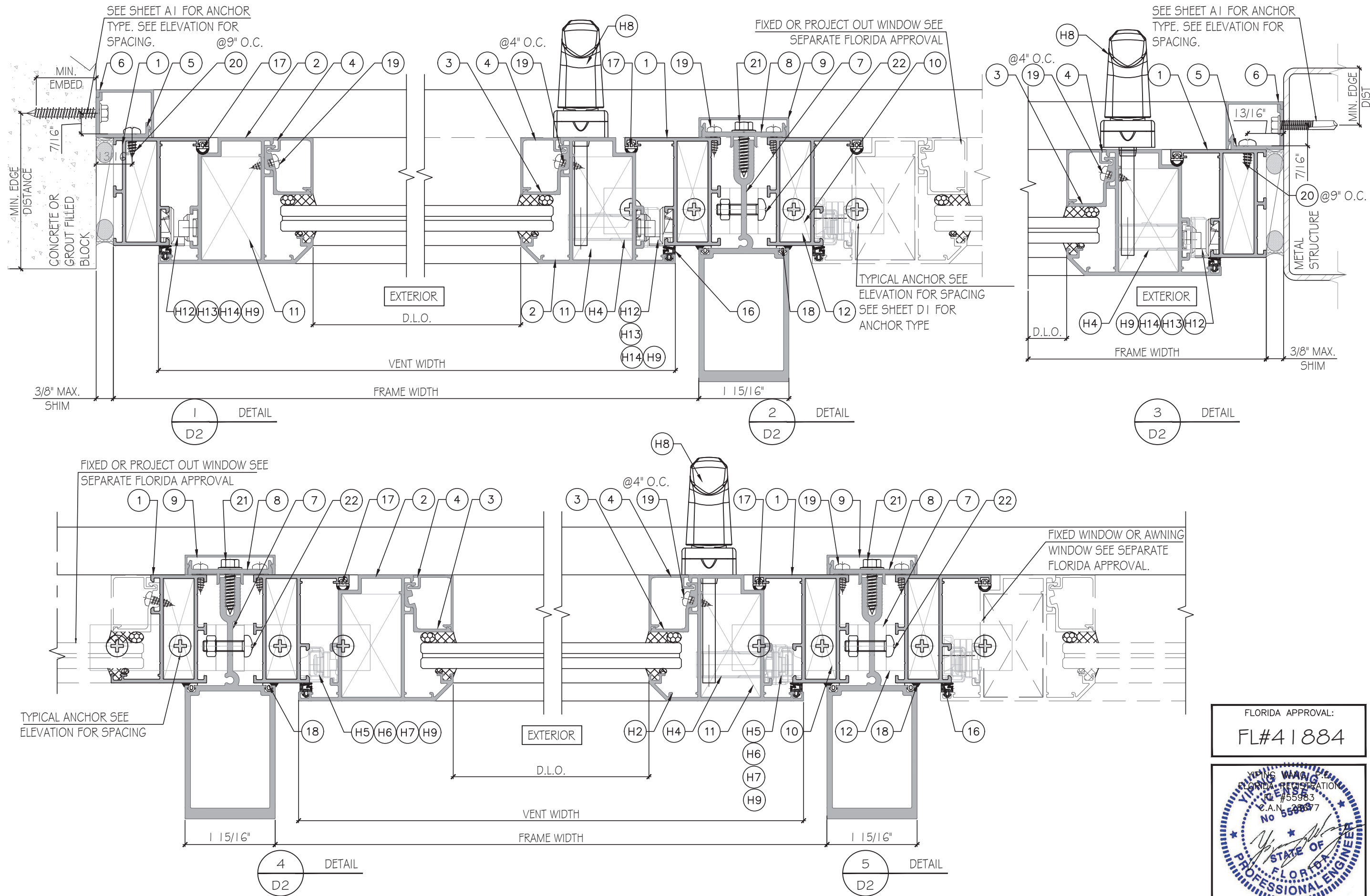


 MCY ENGINEERING, INC. GLAZING CONSULTANTS 12781 MIRAMAR PKWY., STE. 301 MIRAMAR, FL 33027 P: 305.271.0117 www.MCYEngineering.com mcy@mcyengineering.com		SP60 CASEMENT WINDOW - L.M.I.		
		SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD LEVEL 5, BUILDING 10, NO.8666 HUNAN RD, PUDONG NEW AREA SHANG HAI, CHINA TEL.86 021-5822 0630 CELL.86 135-8572-3609		
			REVISION	
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			NEW APPLICATION	
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Drawn Date	01.09.2025	Scale	AS SHOWN
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FLORIDA APPROVAL:
FL#41884

YIPING WANG
FLORIDA REGISTRATION
#55983
C.A.N. 2387

STATE OF FLORIDA
PROFESSIONAL ENGINEER

February 17th, 2025

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GLAZING CONSULTANTS
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SHANGHAI, CHINA
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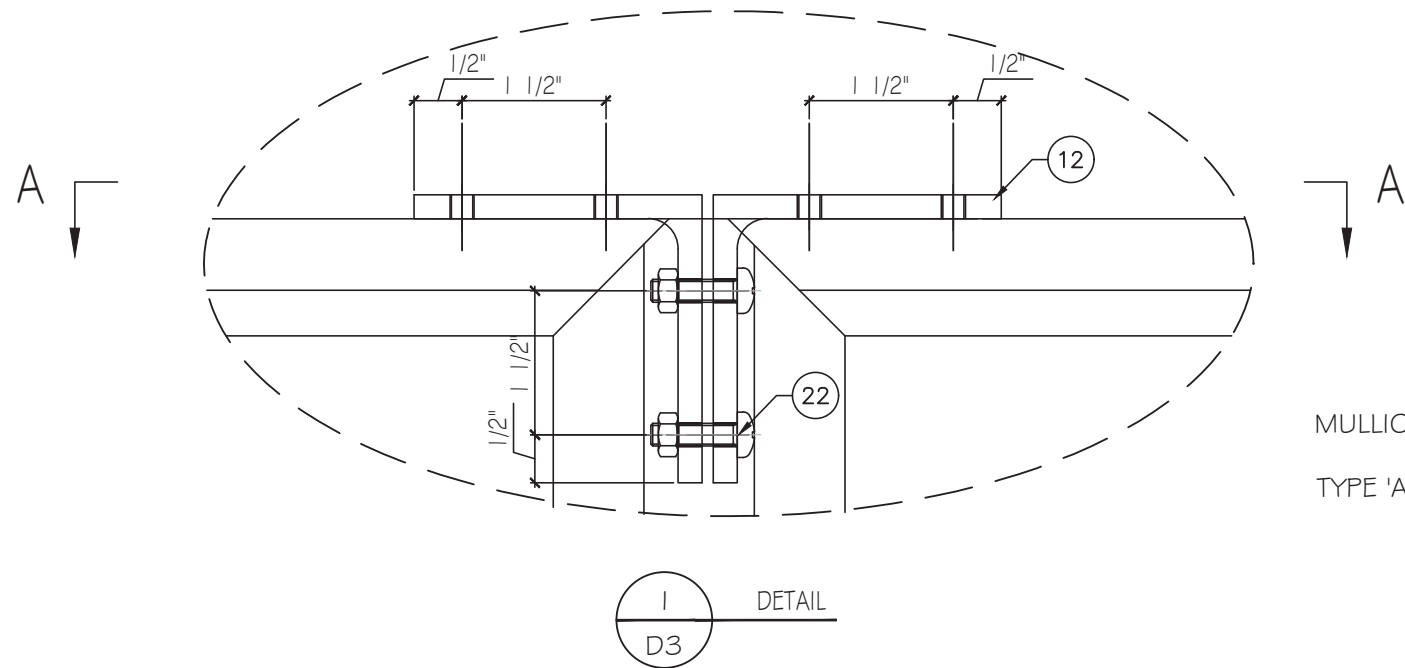
REVISION	DATE	BY	DESCRIPTION
3.	01.09.2025	JAMES	Drawn
2.	08.16.2023	JAMES	Date
1.	01.13.2023	JAMES	Rev. No.

Drawn Date
01.09.2025

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MULLION ANCHOR:

TYPE 'A' -- 1/4" DIA. ULTRACON+ BY 'DEWALT' (Fu= 1 64 KSI, Fy= 1 48 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

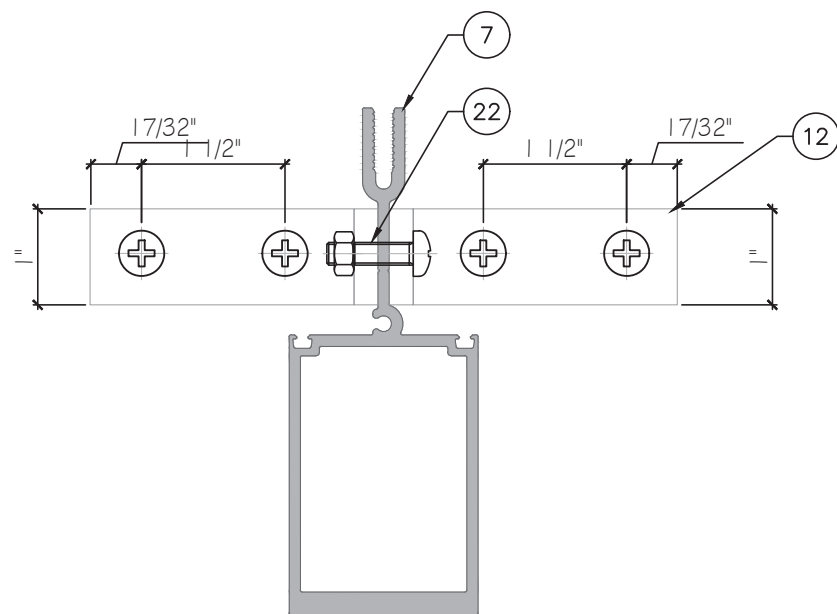
THRU 1 BY WOOD BUCK INTO CONCRETE
WITH 1 3/4" MIN. EMBED INTO CONCRETE

TYPE 'B' -- 1/4" DIA. SS SCREW (Fu= 1 00 KSI, Fy= 65 KSI)
1/4" DIA. TEKS (Fu= 1 20 KSI, Fy= 92KSI)
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= 3000PSI 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.

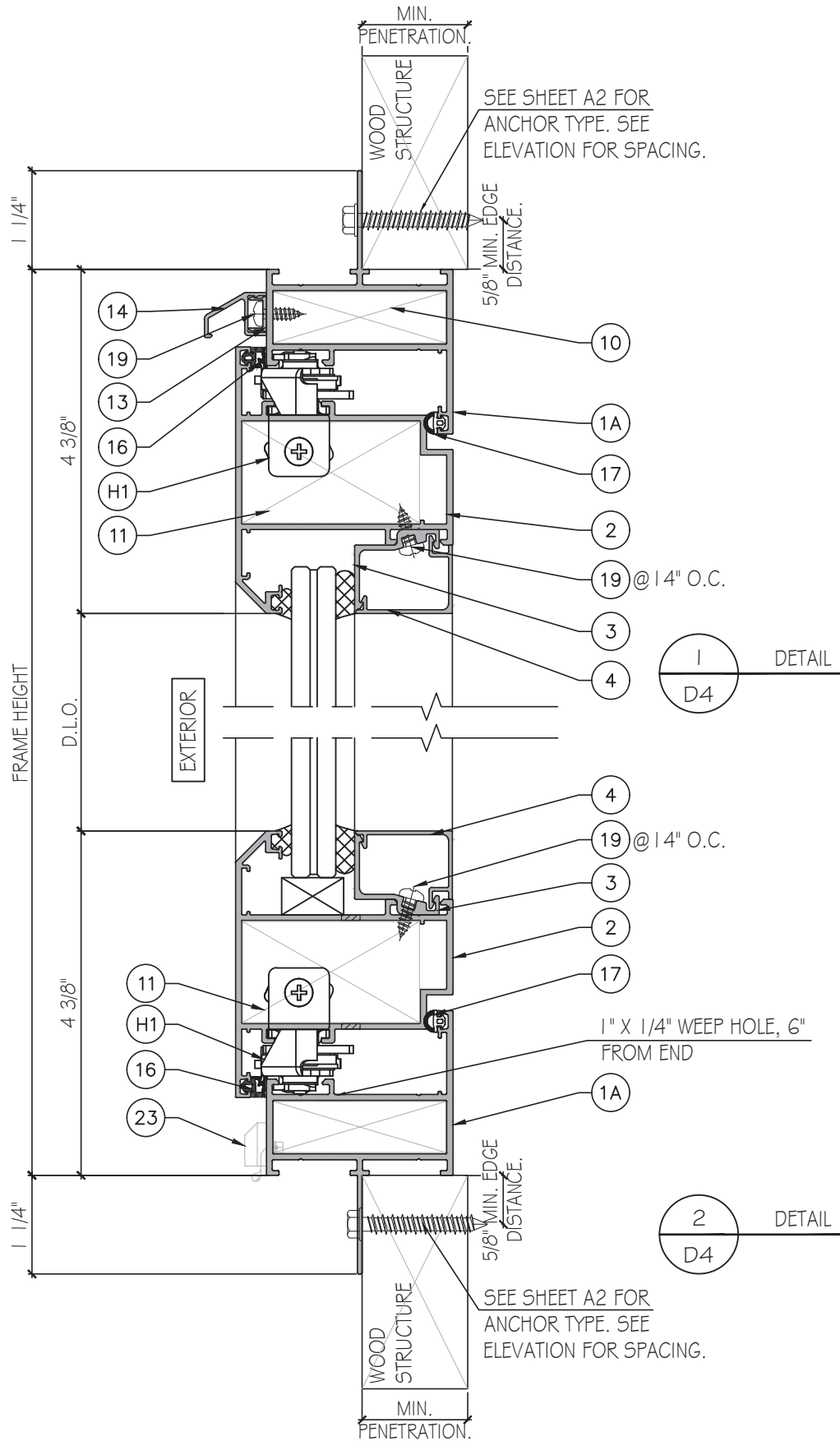


SECTION A-A

FLORIDA APPROVAL:
FL#41884



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D3			
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FLORIDA APPROVAL:
FL#41884

YONG WANG
PROFESSIONAL ENGINEER
FLORIDA
No 55983
C.A.N. 2887

February 17th, 2025

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01.09.2025

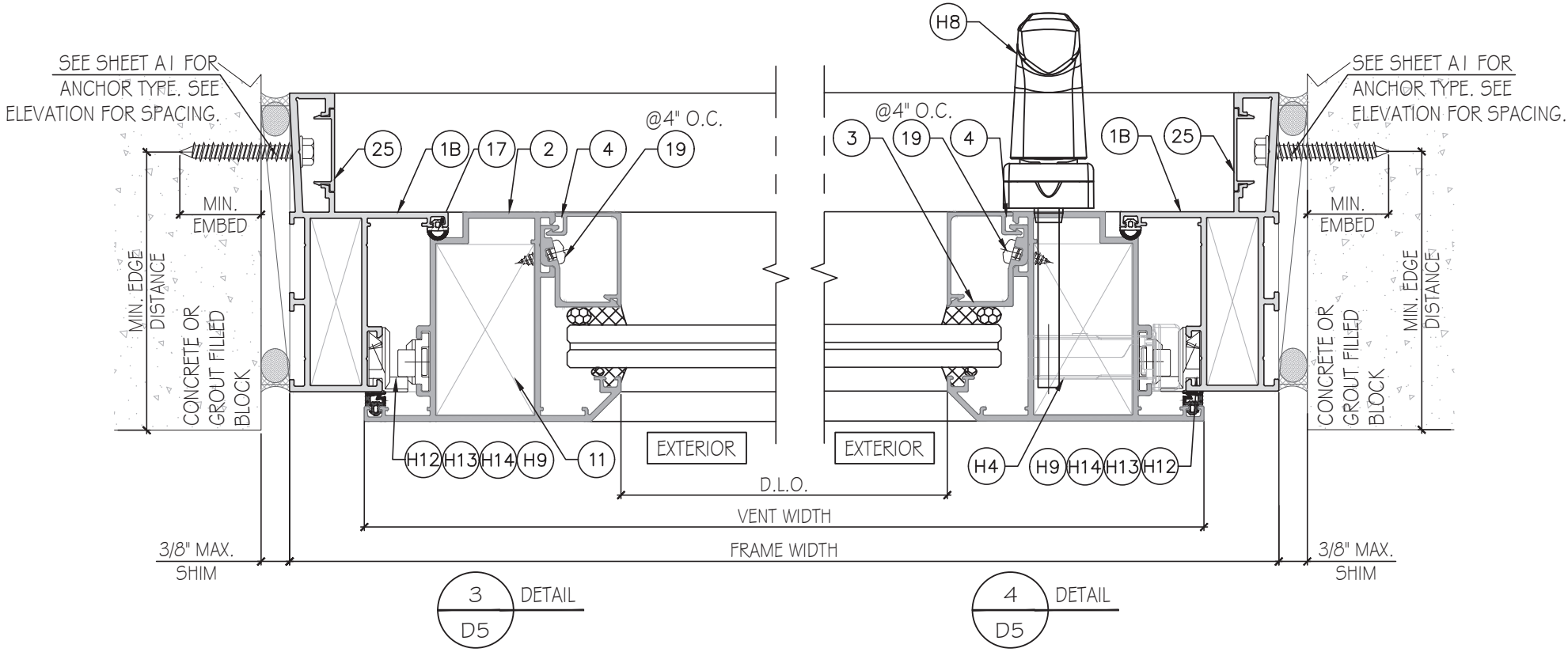
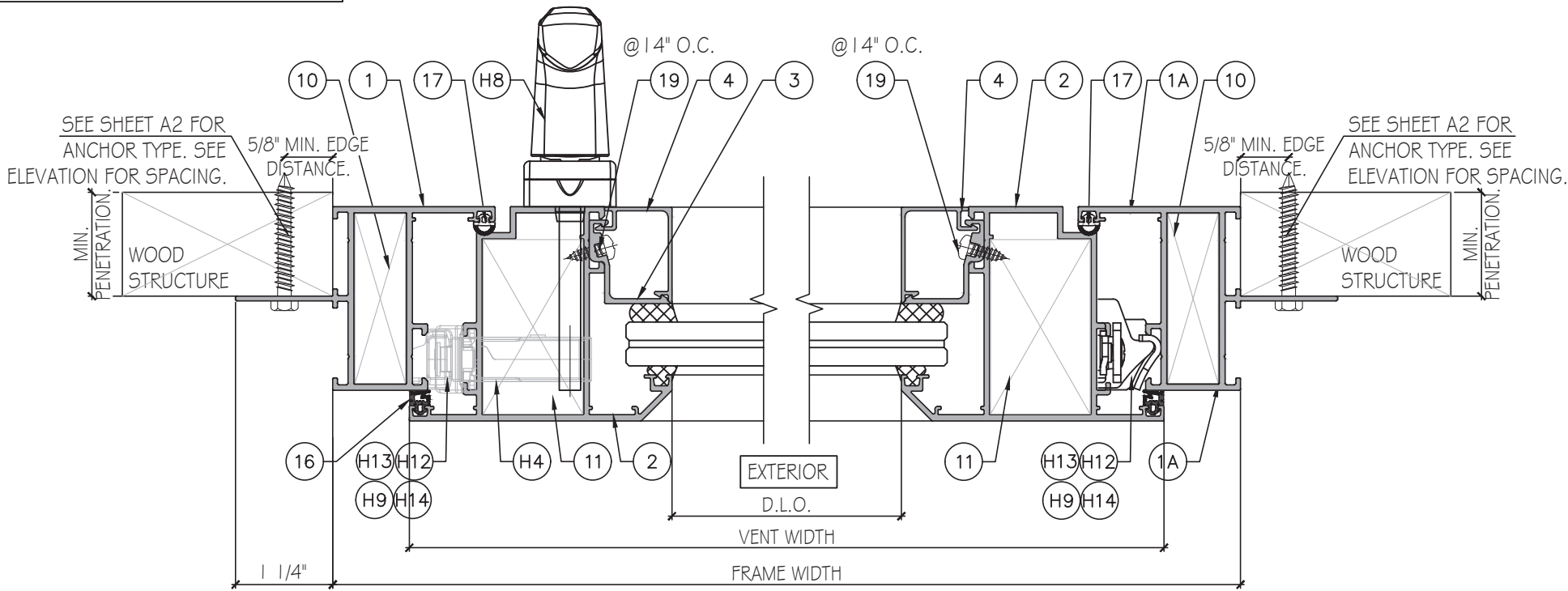
Scale
AS SHOWN

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AD23-02

D4

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9 OF 13

NOTE:
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ANCHORED PROPERLY TO SUSTAIN LOADS IMPOSED BY GLAZING
SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



FLORIDA APPROVAL:
FL#41884

YONG WANG
PROFESSIONAL ENGINEER
FLORIDA REGISTRATION
#55983
C.A.N. 2887
No 55983

February 17th, 2025

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GLAZING CONSULTANTS
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① FRAME SP6001
ALUM. 6063-T5

② VENT SP6004
ALUM. 6063-T5

⑥ COVER SP6052
ALUM. 6063-T5

⑨ COVER SP6009
ALUM. 6063-T5

⑧ PRESSURE BAR SP6008
ALUM. 6063-T5

⑩ CLAMPING CORNER JM0022
ALUM. 6063-T5

H4 FLUSH-ENCASED GEARBOX AGC37.35

H9 CORNER DRIVE VSO TS K50

③ GLASS STOP GLA032
ALUM. 6063-T5

④ GLASS STOP GLB032
ALUM. 6063-T5

⑤ CLIP SP6051
ALUM. 6063-T5

⑬ CLIP JN5P10005
ALUM. 6063-T5

⑭ CORNICE JN5P10006
ALUM. 6063-T5

H5 STRIKER ALP33

⑪ CLAMPING CORNER JM0026
ALUM. 6063-T5

H13 LOCKING CAM 254509

H14 LOCKING CAM 303511

⑮ COVER SPA13006
ALUM. 6063-T5

⑦ STACKING MULLION SP6007
ALUM. 6063-T5

⑫ MULLION CLIP ZL-758
ALUM. 6063-T5

H11 FRICTION HINGE FH06

H6 LOCKING CAM ALR21

H7 LOCKING CAM ALR28

H8 HANDLE 0738/0515

H12 STRIKER 266533

①A FRAME SP6001F
ALUM. 6063-T5

⑮ COVER SPA13006
ALUM. 6063-T5

FLORIDA APPROVAL:
FL#41884

Drawn Date
01.09.2025

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SP60 CASEMENT 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

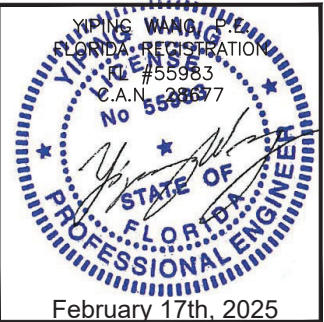
MCY ENGINEERING, INC.
GLAZING CONSULTANTS
12781 MIRAMAR PKWY., STE.301
MIRAMAR, FL 33027 P: 305.271.0117
www.MCYEngineering.com mcy@mcyengineering.com

BILL OF MATERIALS	
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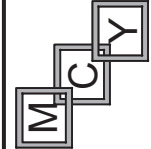
ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	SP6001	FRAME	ALUM. 6063-T5	SUPERHOUSE
1A	SP6001F	FIN FRAME	ALUM. 6063-T5	SUPERHOUSE
1B	SP6001C	FRAME	ALUM. 6063-T5	SUPERHOUSE
2	SP6004	VENT	ALUM. 6063-T5	SUPERHOUSE
3	GLA032	GLASS STOP	ALUM. 6063-T5	SUPERHOUSE
4	GLB032	GLASS STOP COVER	ALUM. 6063-T5	SUPERHOUSE
5	SP6051	CLIP	ALUM. 6063-T5	SUPERHOUSE
6	SP6052	COVER	ALUM. 6063-T5	SUPERHOUSE
7	SP6007	STACKING MULLION	ALUM. 6063-T5	SUPERHOUSE
8	SP6008	PRESSURE BAR	ALUM. 6063-T5	SUPERHOUSE
9	SP6009	COVER	ALUM. 6063-T5	SUPERHOUSE
10	JM0022	CLAMPING CORNER	ALUM. 6063-T5	SUPERHOUSE
11	JM0026	CLAMPING CORNER	ALUM. 6063-T5	SUPERHOUSE
12	ZL-758	MULLION CLIP, 1" LONG	ALUM. 6063-T5	SUPERHOUSE
13	JNSP10005	CLIP	ALUM. 6063-T5	SUPERHOUSE
14	JNSP10006	CORNICE	ALUM. 6063-T5	SUPERHOUSE
15	-			
16	SBWG-001	EPDM GASKET	HARDNESS:30 ± 5 DURO	SUPERHOUSE
17	SBWG-006	EPDM GASKET	HARDNESS:30 ± 5 DURO	SUPERHOUSE
18	SBWG-002	EPDM GASKET	HARDNESS:30 ± 5 DURO	SUPERHOUSE
19	-	SCREW, DIA. 5/32" X 1/2".	STEEL	VARIES
20	-	#12 X 1/2" S.S. SCREW, 4" FROM EACH END, @9" O.C. Fu=100 PSI, Fy=65 PSI	STEEL	VARIES
21	-	HEX HEAD SCREW, DIA. 1/4" X 3 1/32"	STEEL	VARIES
22	-	1/4" DIA. X 3 1/32" PAN HEAD S.S. SCREW, WITH 1/4" DIA. NUT, (2) AT EACH MULLION END, Fu=100 PSI, Fy=65 PSI.	STEEL	VARIES
23	-	WEEP HOLE COVER, 5/16" X 1-1/32"	-	SUPERHOUSE
24	-	SETTING BLOCK, 1/4" X 1".	SILICONE	75 +/- 2A DURO.
25	SPA13006	COVER	ALUM. 6063-T5	SUPERHOUSE
H1	FH06	FRICTION HINGE	STAINLESS STEEL	HOPO
H4	AGC37.35	FLUSH-ENCASED GEARBOX	STAINLESS STEEL	HOPO
H5	ALP33	STRIKER	ZINC ALLOY	HOPO
H6	ALR21	LOCKING CAM	ZINC ALLOY	HOPO
H7	ALR28	LOCKING CAM	ZINC ALLOY	HOPO
H8	O738/0515	HANDLE	ALUMINUM	HOPO
H9	V50 TS K50	COVER DRIVE	STAINLESS STEEL	SIEGENIA
H11	ALP15	CENTER - CLOSER	STAINLESS STEEL	SIEGENIA
H12	266533	STRIKER	ZINC ALLOY	SIEGENIA
H13	254509	LOCKING CAM	ZINC ALLOY	SIEGENIA
H14	303511	LOCKING CAM	ZINC ALLOY	SIEGENIA

FLORIDA APPROVAL:
FL#41884

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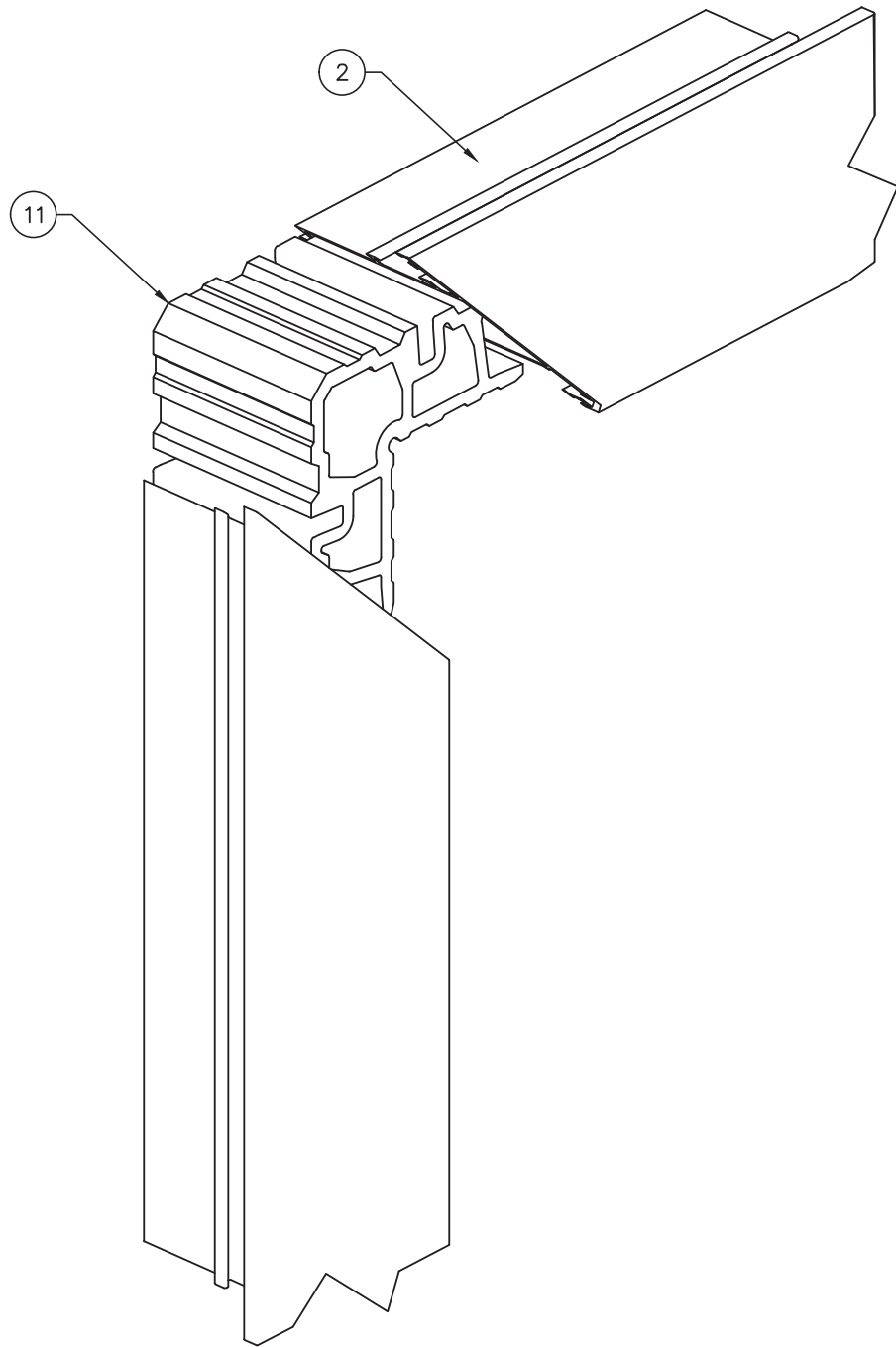
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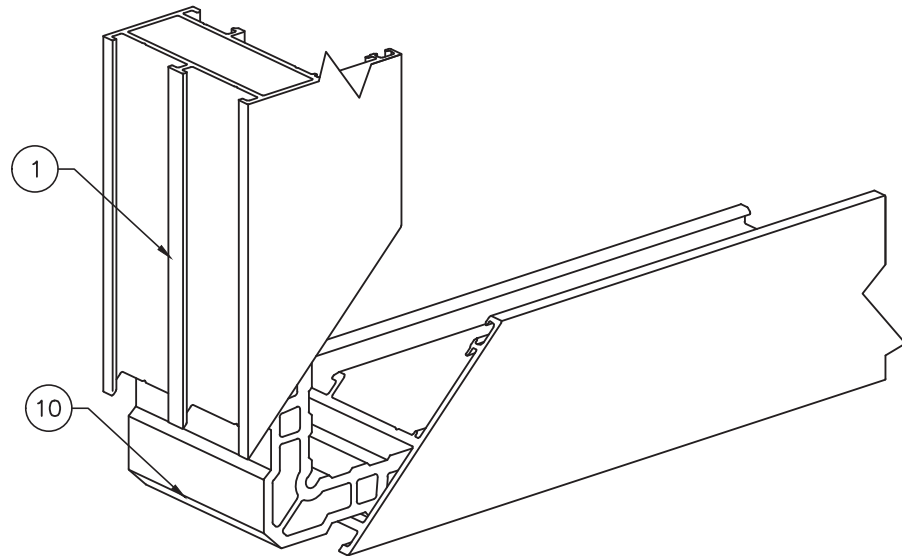
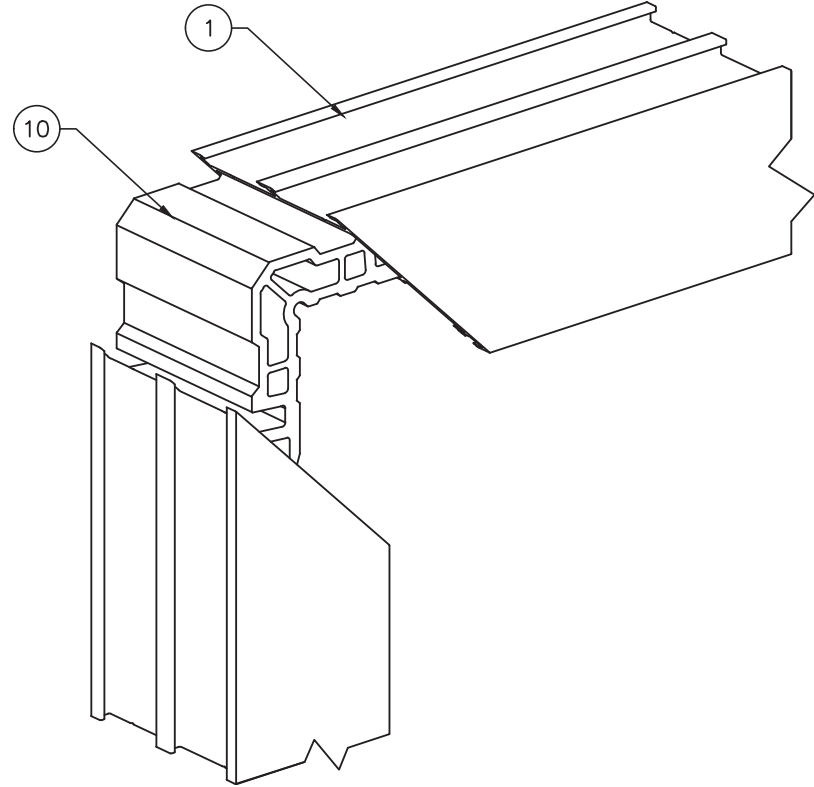
AD23-02

BOM

Sheet No.
12 OF 13



VENT CORNER



FRAME CORNER

FLORIDA APPROVAL:
FL#41884

YONG WANG
FLORIDA REGISTRATION
#55983
C.A.N. 2887
No 55983

STATE OF
FLORIDA
PROFESSIONAL ENGINEER

February 17th, 2025

MCY

ENGINEERING

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Rev. No.	Date	Drawn By	Description
3.	01.09.2025	JAMES	REVISION
2.	08.16.2023	JAMES	FBC 2023
1.	01.13.2023	JAMES	NEW APPLICATION

Drawn Date
01.09.2025

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AD23-02

ASSEMBLY

Sheet No.
13 OF 13