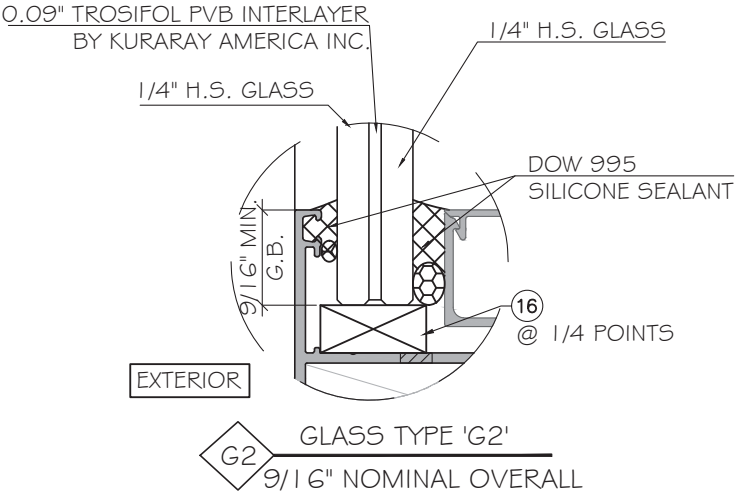


SHANGHAI SUPERHOUSE BUILDING MATERIAL CO., LTD
SP60 FIXED WINDOW LARGE MISSILE IMPACT



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.

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. MULLION ANCHOR SEE SHEET D3, 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.

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

LIMITATIONS OF USE

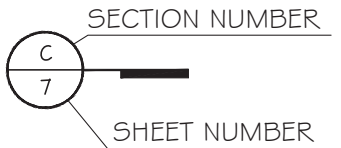
- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- B- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED 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 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:

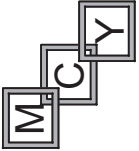
FL#40279

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



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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

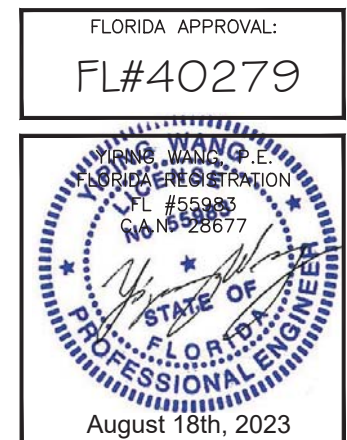
Rev. No.	Date	Drawn By	Description
2.	08.16.2023	JAMES	FBC 2023 UPDATE
1.	11.25.2021	JAMES	NEW APPLICATION
Drawn Date	08.16.2023	Scale	
DRAWING NO.	AD21-39		
COVER			
Sheet No.	1 OF 8		



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



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



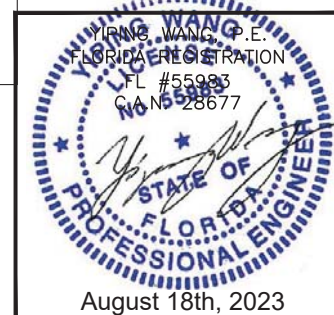


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FOR SIZE SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC
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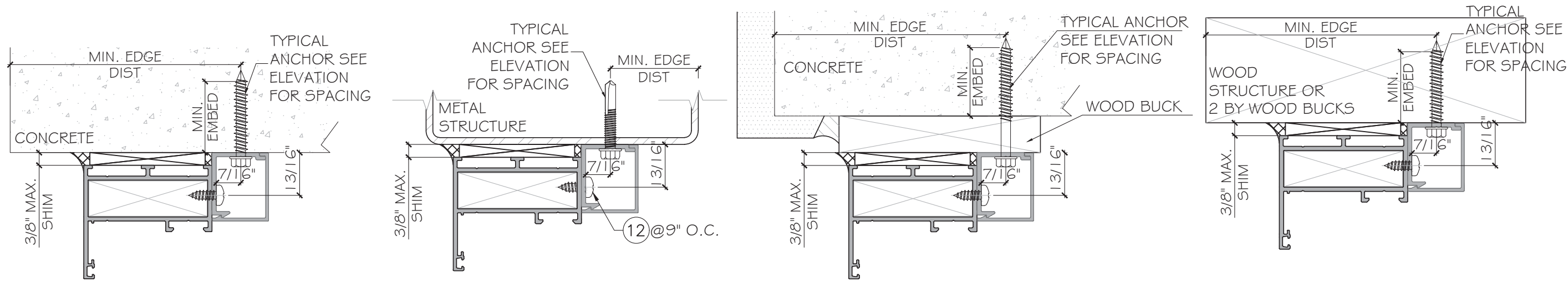
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Drawn Date 08.16.2023							
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		1.	11-25-2021	JAMIES	NEW APPLICATION		
	Rev. No.		Date	Drawn By	Description		
Scale							

DRAWING NO.
AD21-39
E2
Sheet No.
3 OF 8



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
 | 3/4" MIN. EMBED INTO CONCRETE (HEAD/ SILL/ JAMB)
 | 3/4" MIN. EMBED INTO HOLLOW OR GROUT FILLED BLOCKS (JAMB ONLY)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
 WITH | 1/2" MIN. PENETRATION INTO WOOD (HEAD/ SILL/ JAMB)

 THRU | BY WOOD BUCK INTO CONCRETE
 WITH | 3/4" MIN. EMBED INTO CONCRETE (HEAD/ SILL/ JAMB)
 WITH | 3/4" MIN. EMBED INTO BLOCKS (JAMB ONLY)

- TYPE 'B' -- 1/4" DIA. SS SCREW ($F_u=100$ KSI, $F_y=65$ KSI)
 OR 1/4" TEKS (GRADE 5) ($F_u=120$ KSI, $F_y=92$ KSI)
 INTO FBC APPROVED MULLIONS (1/8" THK. MIN.)
 OR INTO METAL STRUCTURES, STEEL: 1/8" THK. MIN. (A36 MIN.)
 (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.

CONCRETE AT HEAD, SILL OR JAMB $f'_c=3000$ PSI MIN.
 BLOCK AT JAMB $f'_m=2000$ PSI MIN.
 WOOD SG=0.55 MIN.

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.

FLORIDA APPROVAL:
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August 18th, 2023

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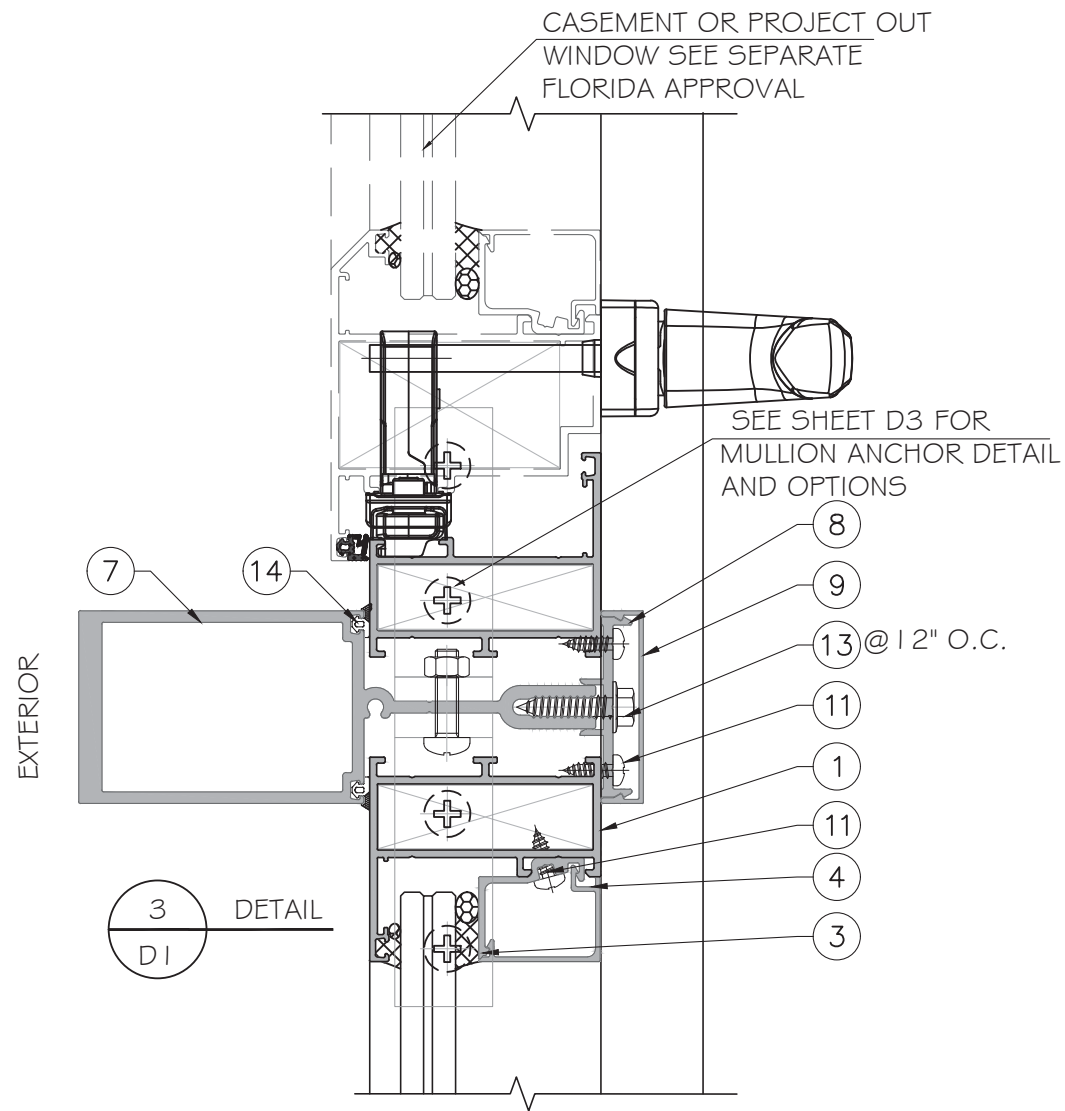
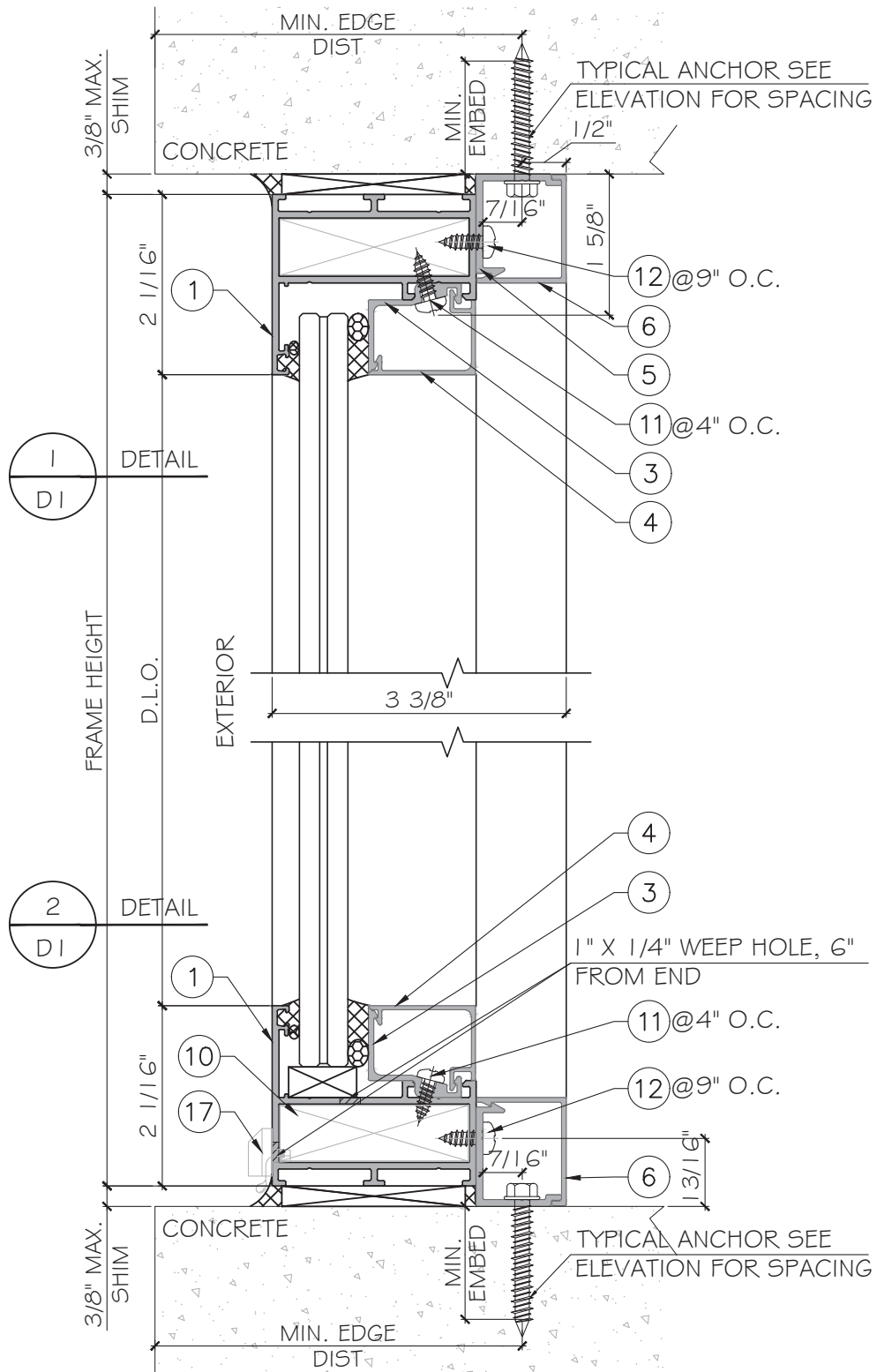
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Drawn Date
08.16.2023

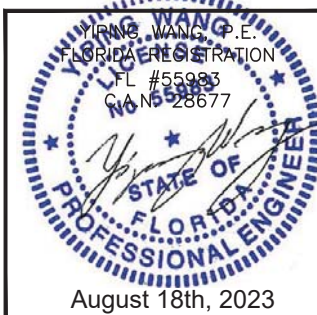
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AD21-39

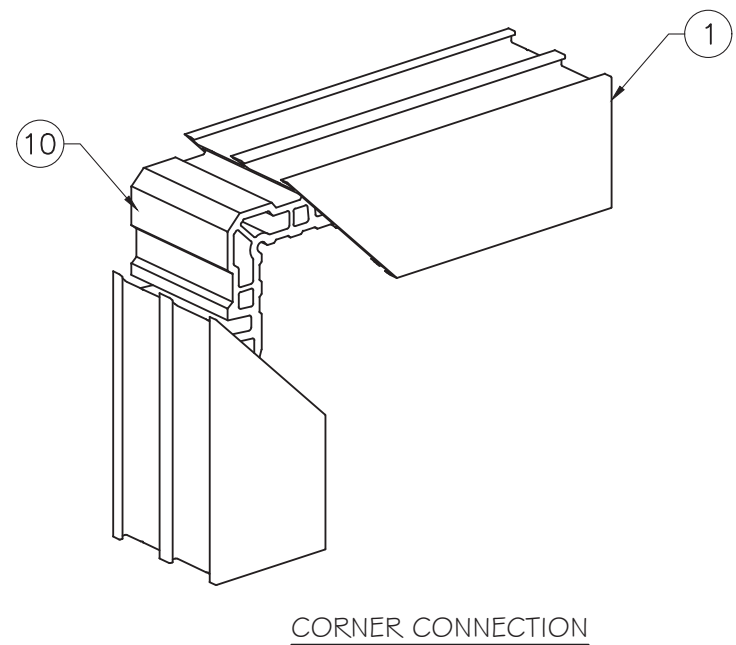
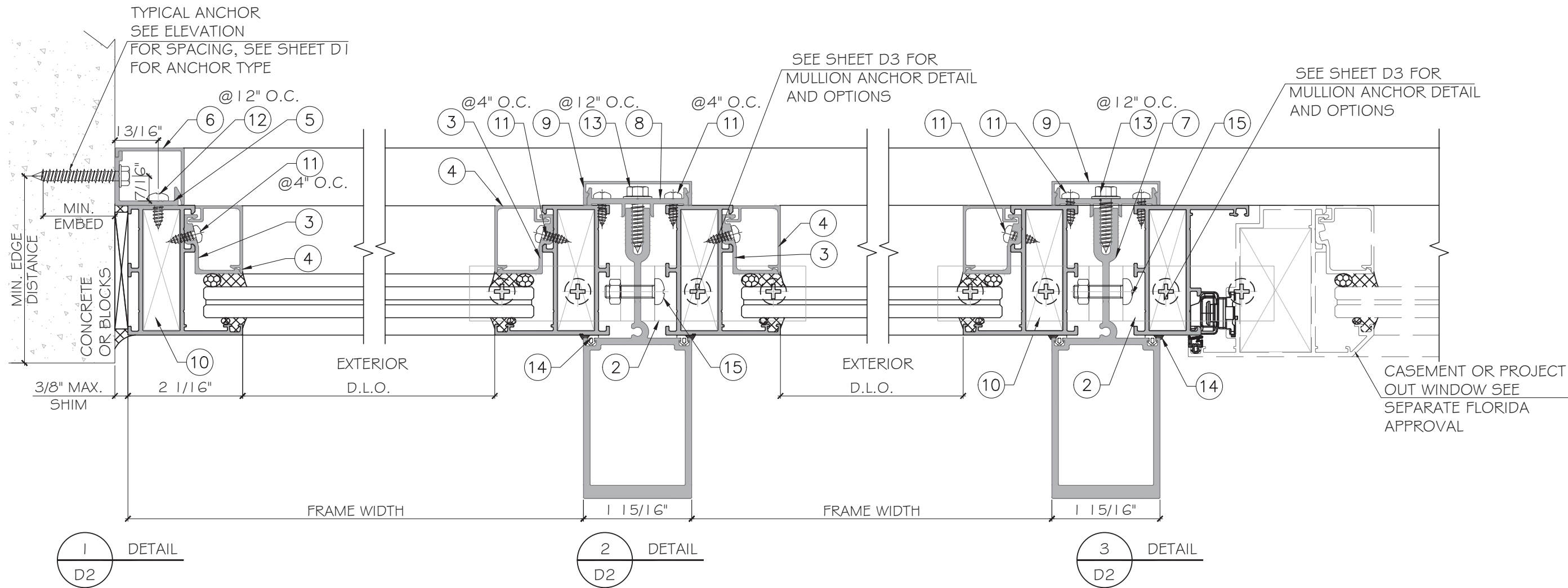
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4 OF 8



FLORIDA APPROVAL:
FL#40279



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FLORIDA APPROVAL:
FL#40279

YONG WANG, P.E.
FLORIDA REGISTRATION
FL #55983
CA #528677

August 18th, 2023

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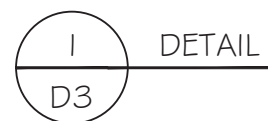
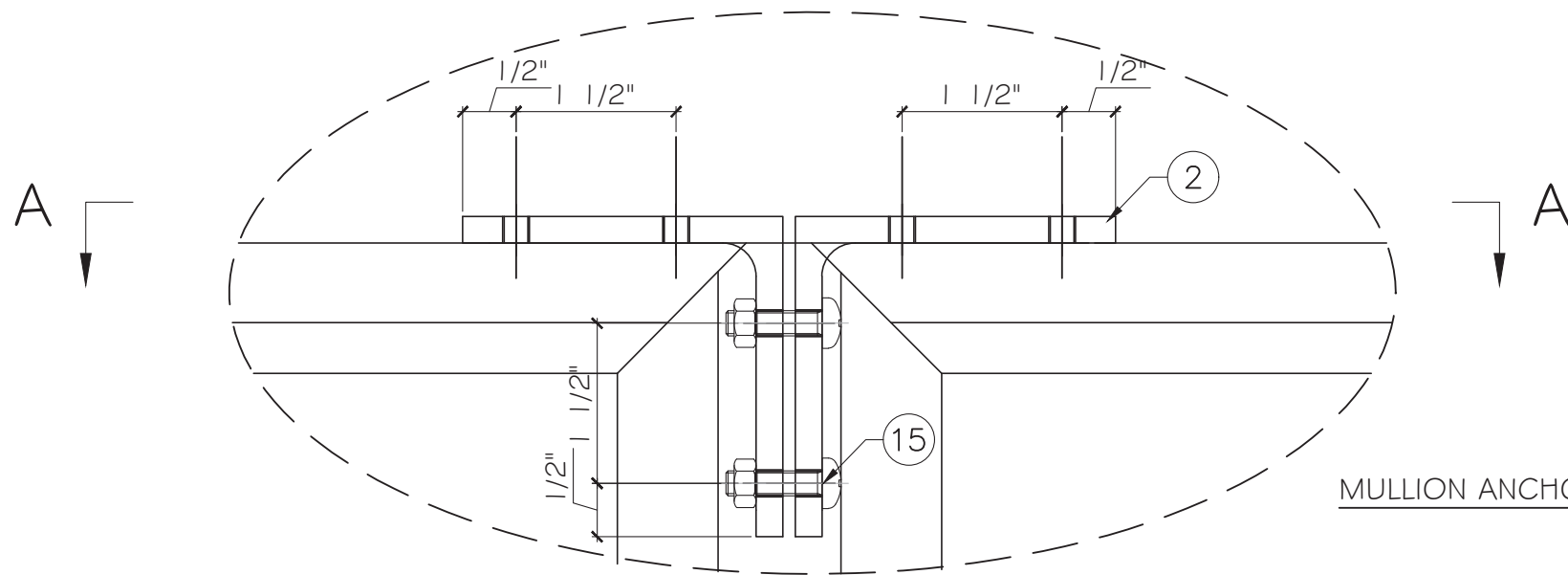
Drawn Date
08.16.2023

Scale

DRAWING NO.
AD21-39

Sheet No.
6 OF 8

D2



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

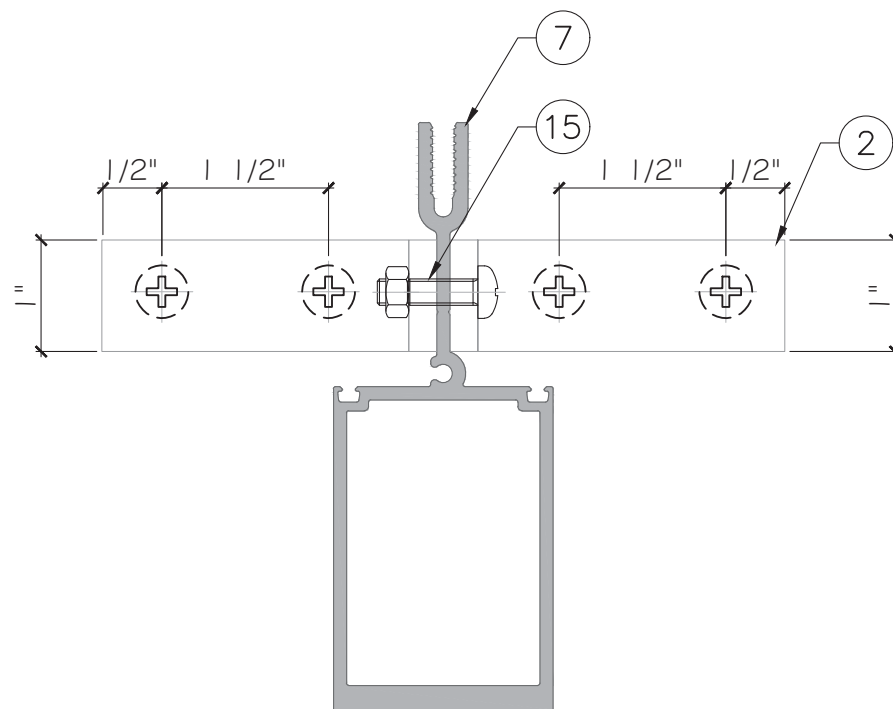
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 OR INTO METAL STRUCTURES, STEEL: 1/8" THK. MIN. (A36 MIN.)
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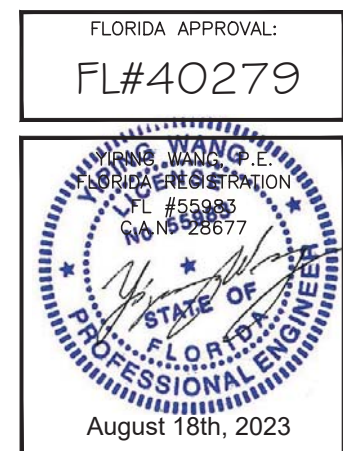
TYPICAL EDGE DISTANCE
 INTO CONCRETE = 2-1/2" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMB $f'_c=3000$ PSI MIN.
 WOOD SG=0.55 MIN.

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



SECTION A-A



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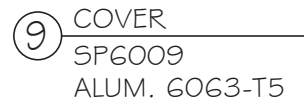
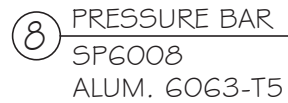
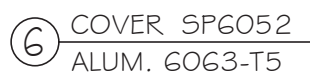
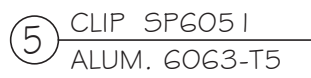
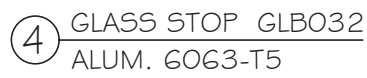
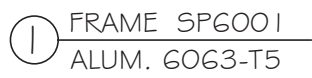
Scale:

DRAWING NO.
AD21-39

D3

Sheet No.
7 OF 8

BILL OF MATERIALS				
ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	SP6001	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	SP6051	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
10	JMO022	CLAMPING CORNER	6063-T5	SUPERHOUSE
11		5/32" DIA. X 1/2" PAN HEAD SCREW	STAINLESS STEEL	VARIES
12		#14 X 1/2" S.S. SCREW, 4" FROM EACH END, @9" O.C. Fu=100 PSI, Fy=65 PSI.	STAINLESS STEEL	VARIES
13		1/4" DIA. X 3 1/32" HEX HEAD SCREW	STAINLESS STEEL	VARIES
14	SBWG-002	EPDM GASKET	EPDM	DURO 30 +/- 5
15		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
16		1/4" X 1", SETTING BLOCK	PP	75 +/- 2A DURO.
17		WEEP HOLE COVER, 5/16 X 1-1/32"	PP	VARIES



YUNG WANG P.E.
FLORIDA REGISTRATION
FL #55983
CA#528677
STATE OF FLORIDA
PROFESSIONAL ENGINEER
August 18th, 2023

[illegible]

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SP60 FIXED WINDOW - L.M.I.

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