

WANESEA-SUE, INC.
AIRLIGHT BUILDING PANEL SYSTEM
LARGE & SMALL MISSILE IMPACT

GENERAL NOTES:

- THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION FLORIDA BUILDING CODE (2023) / 9TH EDITION FLORIDA BUILDING CODE (2026) INSIDE OF THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- PANELS RATED FOR LARGE AND SMALL MISSILE IMPACT.
- THESE PANELS 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 FLORIDA BUILDING CODE (2023) / 9TH EDITION FLORIDA BUILDING CODE (2026) SECTION AS APPLICABLE.
- METAL STRUCTURES NOT BY WANESSA-SUE 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.
- INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING. COMPLIANCE WITH THESE CONDITIONS TO BE CHECKED PER FBC 1711.
- FASTENERS USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE AND INSTALLED IN ENCLOSED SPACES SHALL BE GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.1 (E.G., ASTM A153 CLASS D, ASTM A641 CLASS 3S, OR EQUIVALENT CORROSION RESISTANCE).
- CONNECTORS AND METAL PLATES USED WITHIN 3,000 FEET OF A SALTWATER COASTLINE SHALL BE STANDARD GALVANIZED IN ACCORDANCE WITH SECTION 1711.1.2 (E.G., ASTM A653 G90, ASTM A123, OR PROTECTIVE COATING PER TPI 1).

TYPICAL ANCHORS:

(REFER TO ELEVATION FOR SPACING)

TYPE A - 3/8" DIA. POWERS WEDGE BOLT ($F_u = 100$ KSI, $F_y = 65$ KSI)

INTO CONCRETE OR MASONRY
WITH 2-1/2" MIN. EMBED.

TYPE B - 3/8"-16 BOLT WITH WASHER AND NUTS (S.S 304)
 INTO METAL STRUCTURE
 STEEL: 1/8" MIN. (F_y=36 KSI MIN.)
 ALUMINUM: 1/8" MIN. THK. (6063-T5 MIN.)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/4" MIN.
INTO METAL STRUCTURE = 1" MIN.

CONCRETE $f'_c=2000$ PSI MIN.

ABBREVIATIONS AND SYMBOLS

W/ - WITH
W/O - WITHOUT
O.C. - ON CENTER
TYP. - TYPICAL

SECTION NUMBER

A circle representing a gamete, divided horizontally. The top half contains the letter 'X' and the bottom half contains the letters 'XX'.

SHEET NUMBER

LIMITATIONS OF USE

- A- THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERAL 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#28329.1

YING WANG, P.E.
 CIVIL ENGINEER
 FL #55983
 C.A.# 12677
 No 555983
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 August 28th, 2026

AIRLIGHT BUILDING PANEL SYSTEM - L.M.I. / S.M.I.

WANESSA-SUE, INC.

5056 INEZ RD. KINGMAN, AZ 86409
TEL. (928) 692-4553

MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR P
MIRAMAR FL33027

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MC1@mcycyengineering.com

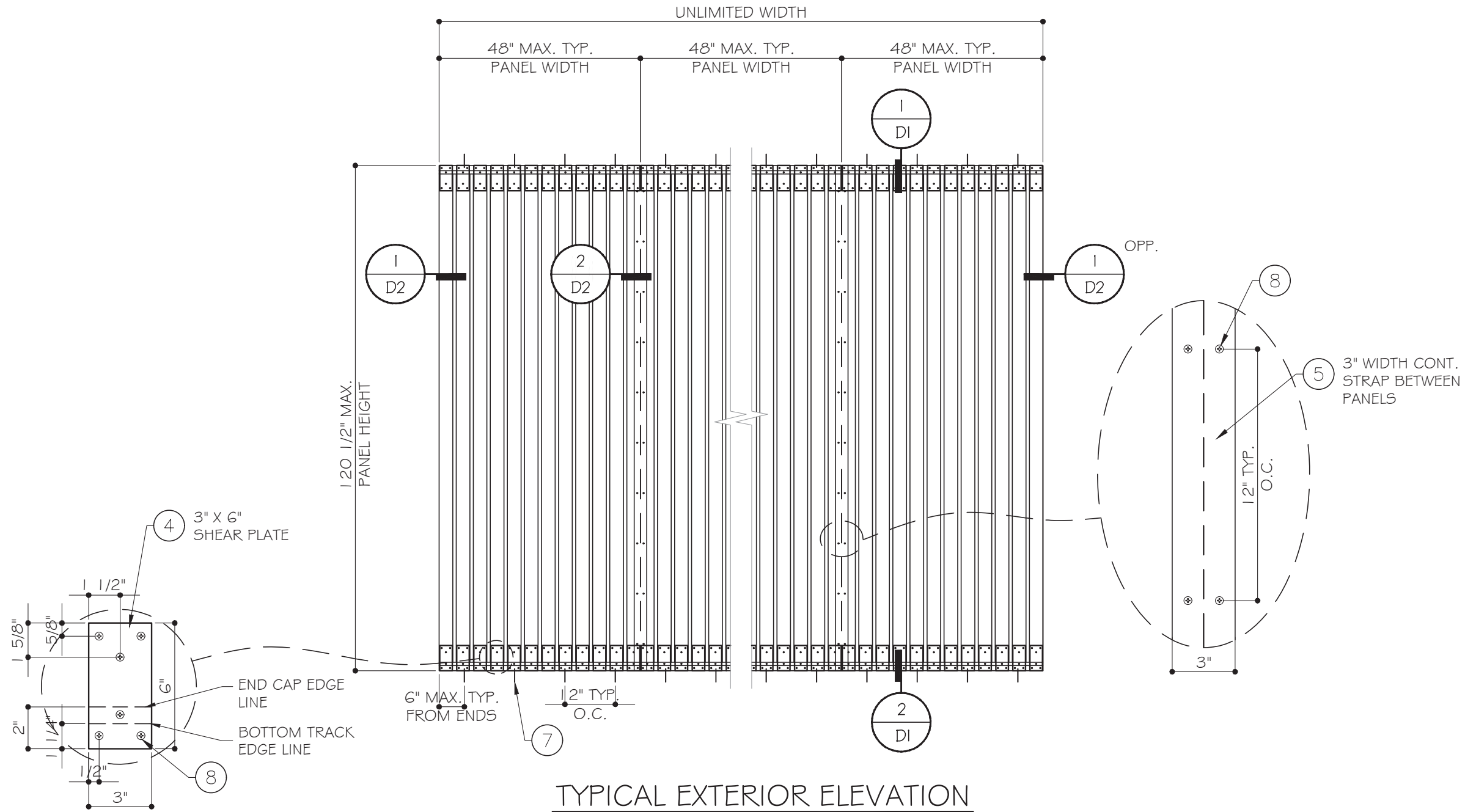
MCY ENGINEERING, INC.
GLAZING CONSULTANTS

12781 MIRAMAR PARKWAY #301 P: 305 588 5224

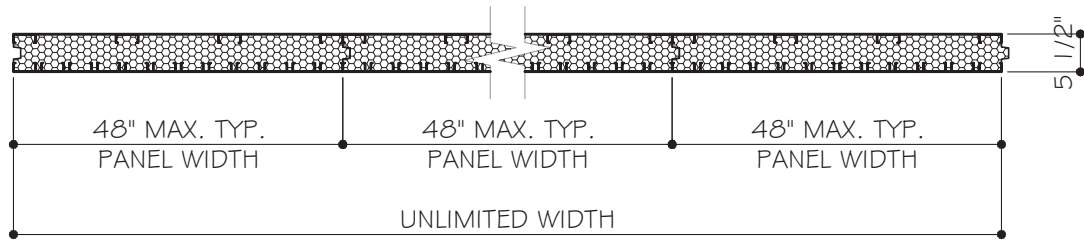
MIRAMAR FL33027

MCY@mcyengineering.com

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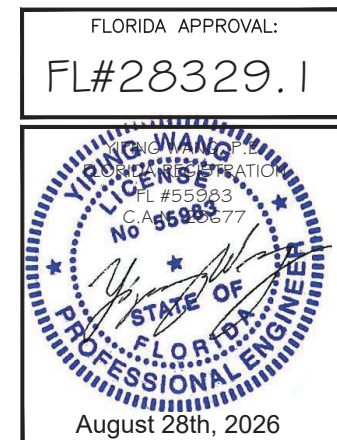
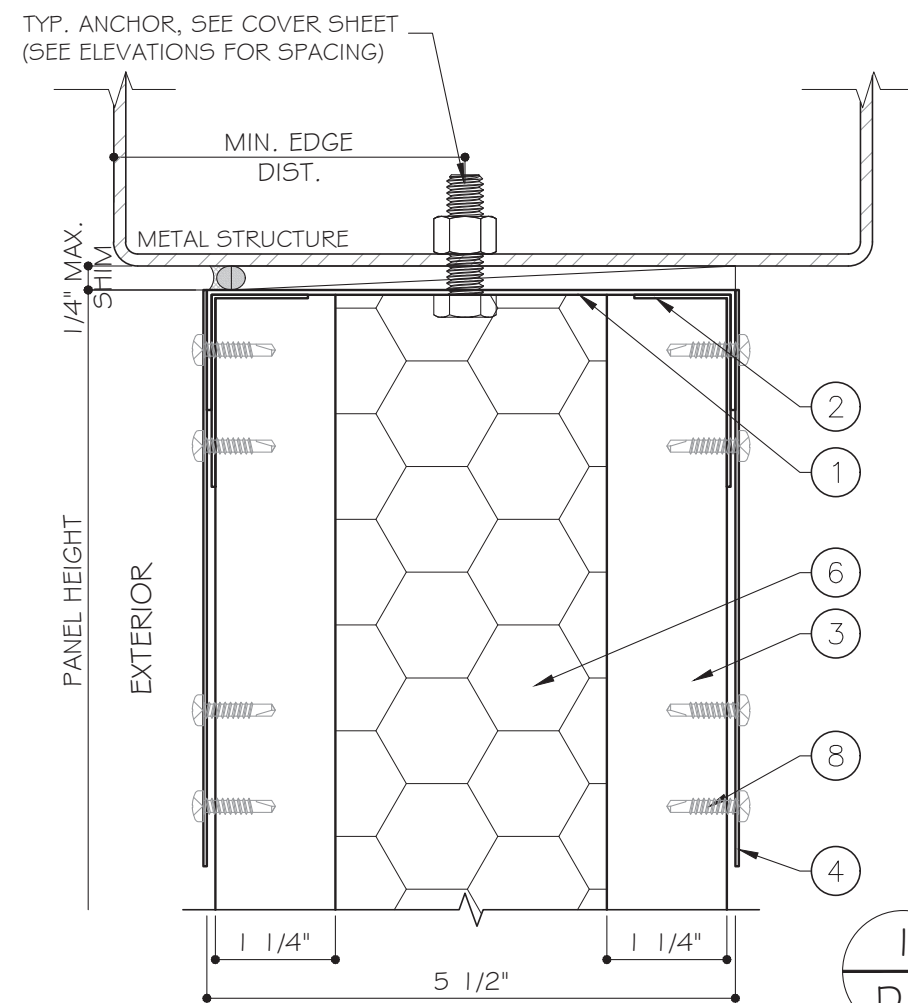
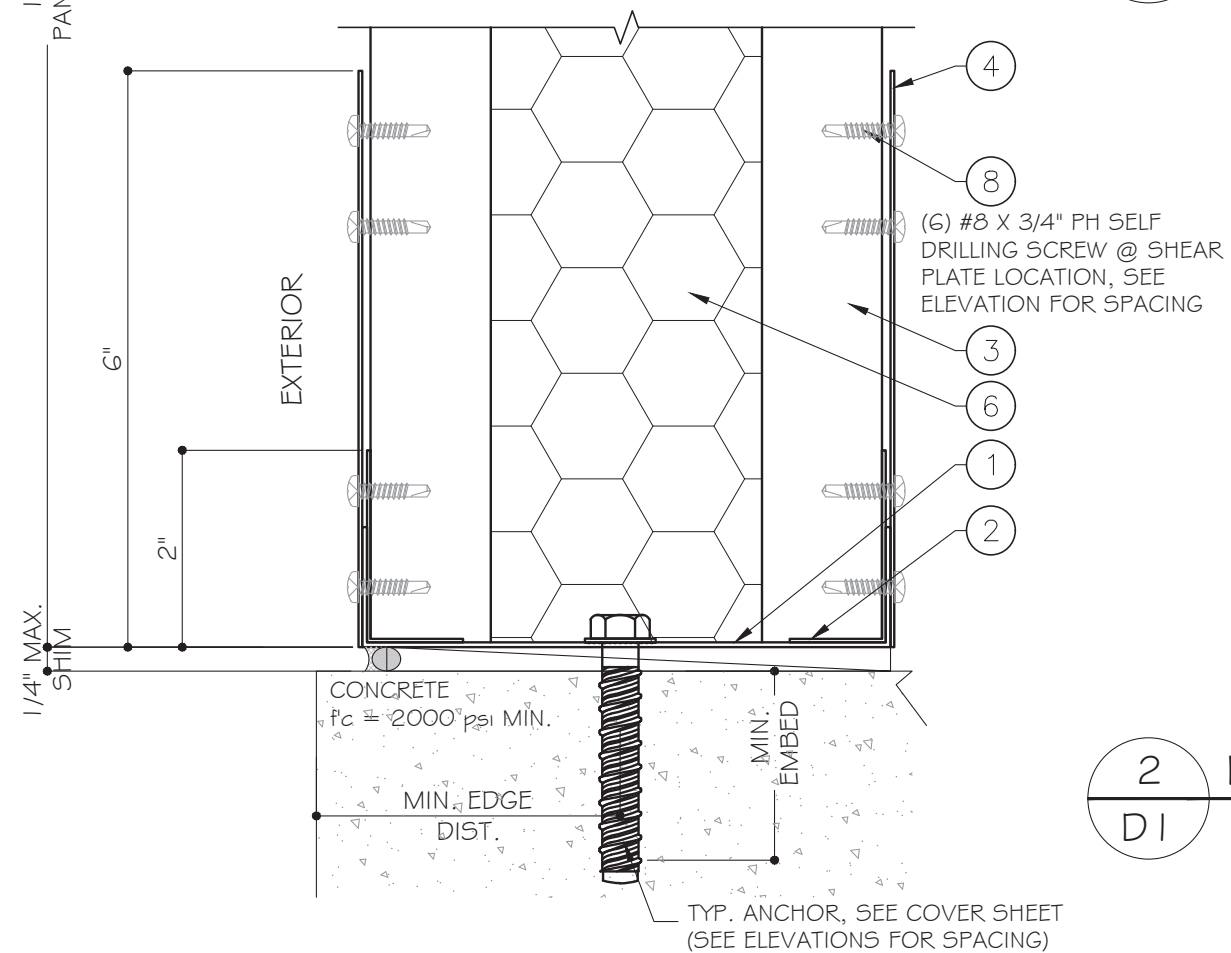
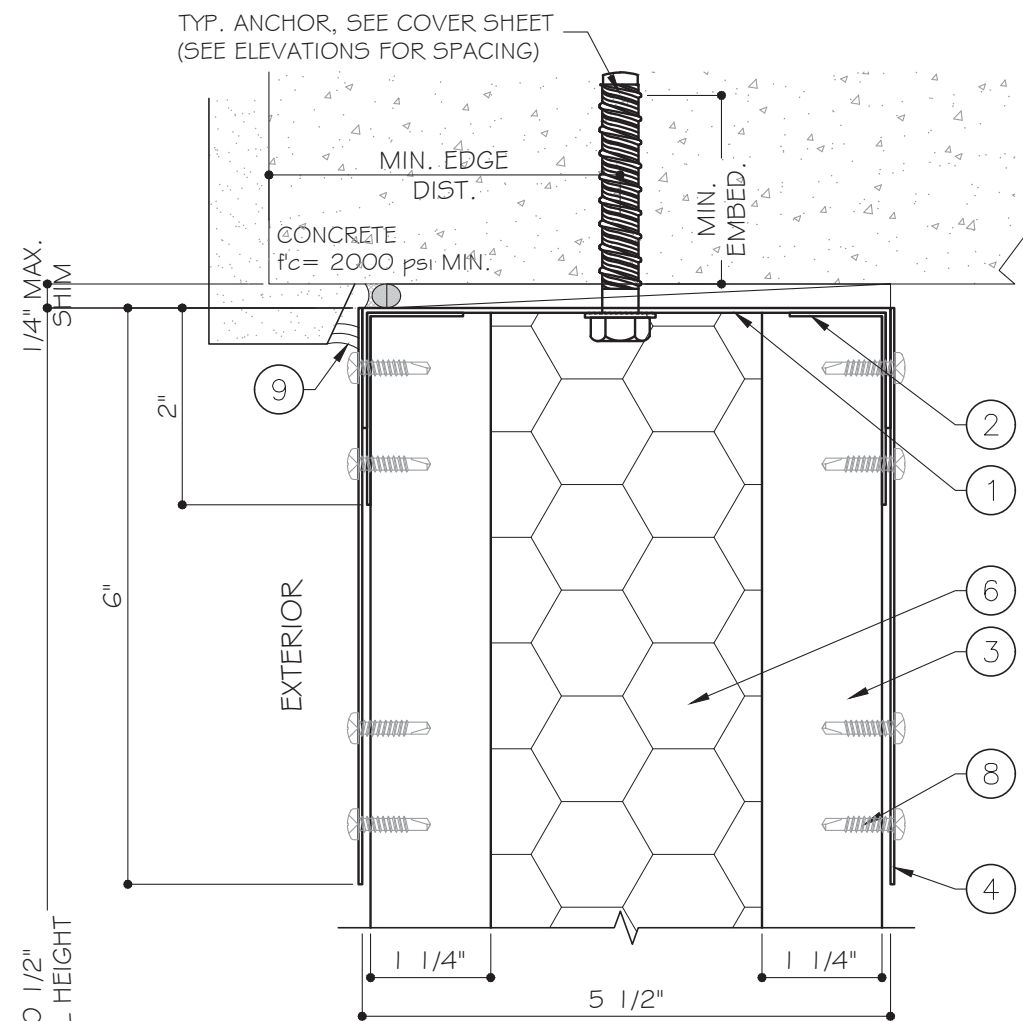


DESIGN LOADS	
FOR SIZES SHOWN ABOVE OR SMALLER AS PERMITTED BY FBC	
+83 PSF	
- 83 PSF	

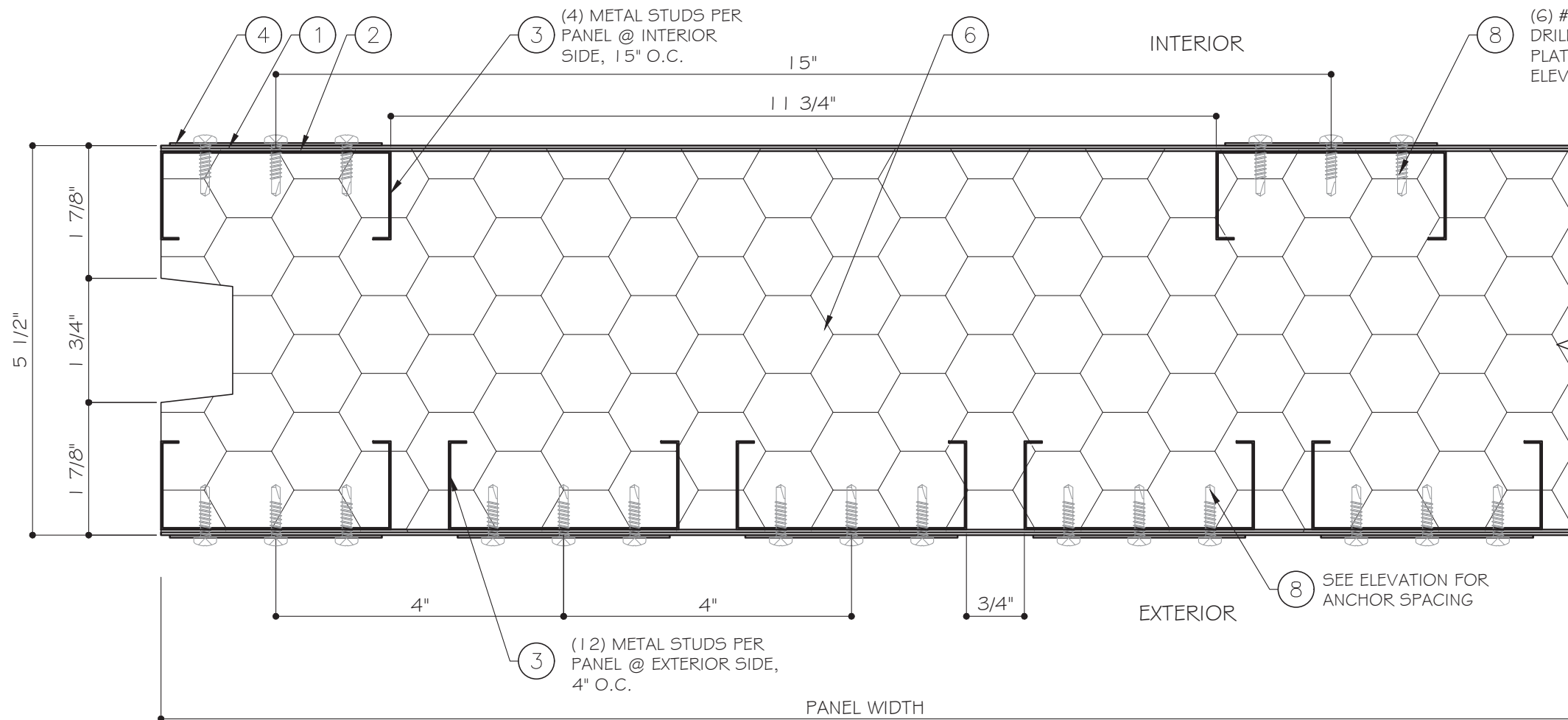


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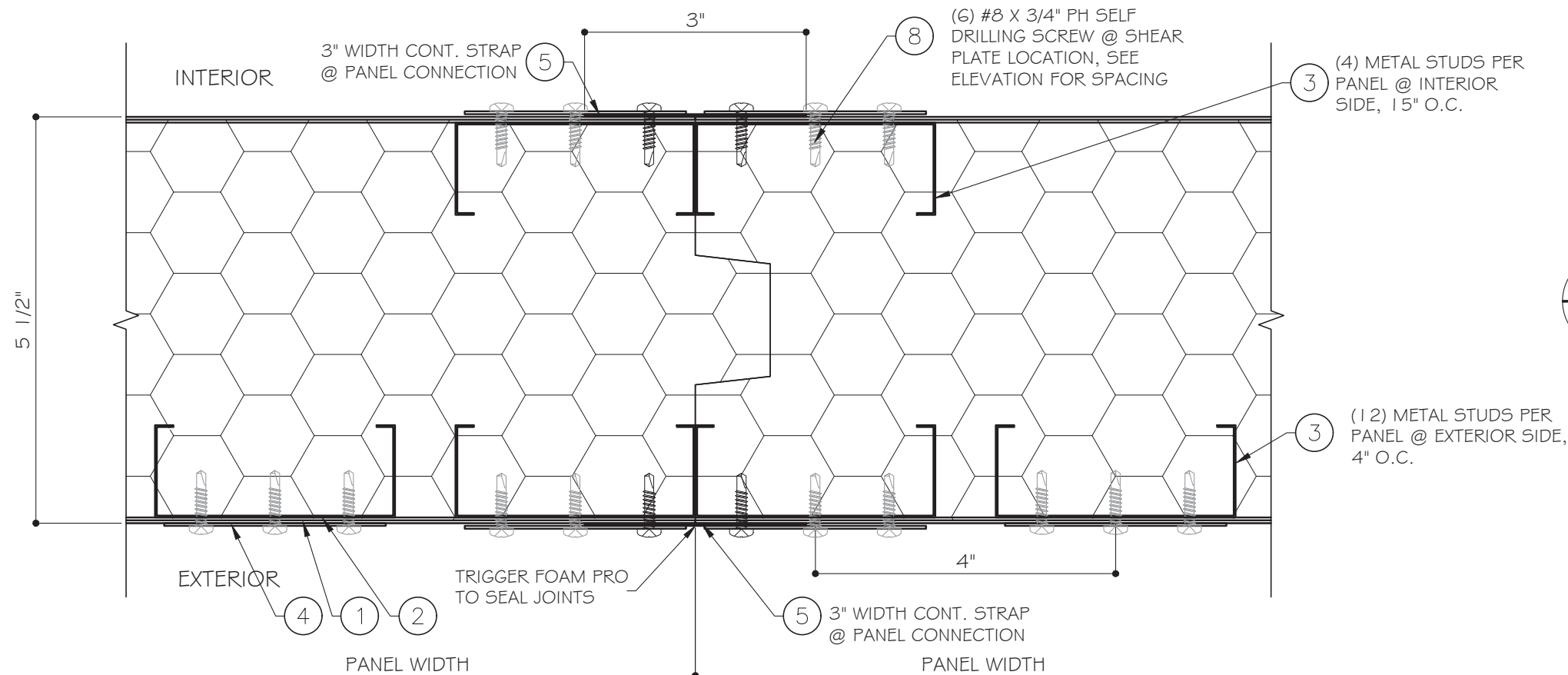
August 28th, 2026



 WANESSA-SUE, INC. AIRLIGHT BUILDING PANEL SYSTEM - L.M.I. / S.M.I									
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1
D2
DETAIL



2
D2
DETAIL

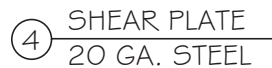
FLORIDA APPROVAL:
FL#28329.1

YIPING WANG
REGISTERED PROFESSIONAL ENGINEER
FL #55983
C.A. 08/27/2026

August 28th, 2026

Rev. No.	Date	Drawn By	Description
R3	08.27.2026	James	UPDATE FBC 2026
R2	11.08.2023	James	UPDATE FBC 2023
Drawing Date: 08.27.2026 Scale: AS SHOWN			
DRAWING NO. AD18-22			
D2			
Sheet No. 04 OF 05			

BILL OF MATERIALS				
ITEM #	PROFILE	DESCRIPTION	MATERIAL	MANUFACTURER/REMARKS
1	-	BOTTOM TRACK / HEADER	18 GA. STEEL (Fy=46.9 KSI MIN. Fu=60 KSI MIN.)	WANESEA-SUE
2	-	END CLIP	20 GA. STEEL (Fy=46.9 KSI MIN. Fu=60 KSI MIN.)	WANESEA-SUE
3	-	STEEL STUD	24 GA. STEEL (Fy=46.9 KSI MIN. Fu=60 KSI MIN.)	WANESEA-SUE
4	-	3" X 6" SHEAR PLATE	20 GA. STEEL (Fy=46.9 KSI MIN. Fu=60 KSI MIN.)	WANESEA-SUE
5	-	3" WIDTH STRAP BETWEEN PANELS	20 GA. STEEL (Fy=46.9 KSI MIN. Fu=60 KSI MIN.)	WANESEA-SUE
6	-	POLYSTYRENE PANEL	POLYSTYRENE	WANESEA-SUE
8	-	#8 X 3/4" PH SELF DRILLING SCREW	STEEL (Fy= 92 KSI MIN.)	GALVANIZED
9	-	DOW CORNING 790 SILICONE SEALANT	SILICONE	DOW CORNING



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