

GENERAL NOTES

1. **BLADE 1 HORIZONTAL ALUMINUM LOUVER SYSTEM** SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2023 (8th EDITION)** OF THE FLORIDA BUILDING CODE. THIS ALUMINUM LOUVER SYSTEM MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (H.V.H.Z) AND OUT OF IT (N.H.V.H.Z).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS **1620 & 1609** OF THE ABOVE MENTIONED CODE, USING **ASCE 7-22** AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-22** SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON THIS SHEET.

IN ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.E.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS **NOT** USED IN THEIR ANALYSIS.

A DURATION FACTOR CD=1.60 WAS USED FOR VERIFICATION OF FASTENERS IN WOOD.

ALUMINUM LOUVER SYSTEM ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER QAI LABORATORIES, TESTING LAB REPORTS #QA-1162a,b,c, AS PER TAS-201, 9Lb 2"x4" 50ft/sec TAS-202, TAS-203, AS WELL AS PER AMCA IMPACT STANDARD 540.

2. ALL ALUMINUM SHEET METAL SHALL BE 5052-H32 ALLOY AS PER BILL OF MATERIALS ON SHEET 2.
3. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT CARBON STEEL AS PER DIN 50018 AND SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4. ALL RIVETS SHALL BE AS PER BILL OF MATERIALS ON SHEET 2.
4. ALL WELDING OF ALUMINUM FRAMING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY A.W.S. D.1.2 REGULATIONS. USE CERTIFIED WELDERS. USE ER-5356 ELECTRODES.
5. ANCHORS TO EXISTING STRUCTURE SHALL BE AS FOLLOWS (SEE SHEET 7).

(A). ANCHORS SHALL BE INSTALLED FOLLOWING ALL THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHORS MANUFACTURER. E.D. AND EMBEDMENT ARE BEYOND ANY WALL FINISH. SEE SHEET 7 FOR MAX. SPACING.

ANCHOR TYPE	MANUFACTURER	DIAMETER OR GAGE	MIN. EMBEDMENT				MIN. EDGE DISTANCE (E.D)		
			TO CONCRETE (f'c=3,000 psi) MIN.	TO CONCRETE BLOCK ASTM (C-90 UNIT) f'c=1.5 ksi GROUTED	1/8" MIN. ALUM. (Fy=25ksi) or 12 GA. GALV. STEEL(Fy=33ksi)	TO WOOD (G ≥ 0.55)	CONCRETE OR CONCRETE BLOCK	STEEL	WOOD
SCREW-BOLT+	DEWALT	1/4"	1 5/8"	1 5/8"	N/A	N/A	2 1/2"	N/A	N/A
TAPCON	ITW/BUILDEX	1/4"	1 3/4"	1 1/4"	N/A	1 1/2"	2 1/2"	N/A	1"
TEK-SCREWS	ITW/BUILDEX	1/4"-14	N/A	N/A	FULLY EMB. PLUS 3 THREADS BEYOND.	N/A	N/A	3/4"	N/A

6. ALUMINUM LOUVER SYSTEM SHALL ONLY BE INSTALLED IN LOCATIONS WHERE THE ROOM BEHIND IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM, OR THE ROOM WILL HOUSE WATER RESISTANT EQUIPMENT.
7. ALUMINUM MEMBERS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

8. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE LOUVER SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.
9. (A). THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A 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 INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS P.E.D., PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (C). THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.
- (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). ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.
10. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1703.5 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

A.S.D. DESIGN PRESSURE RATING:
SEE SCHEDULES ON SHEET 7

THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA



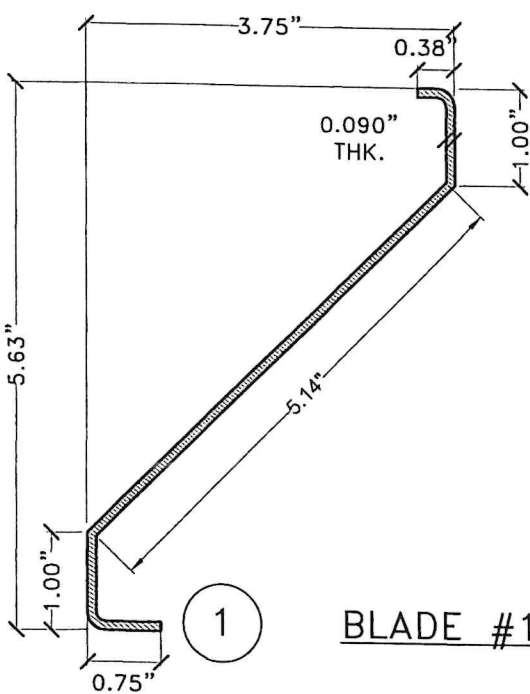
© 2025 TILTECO, INC.

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33186
Phone : (305)871-1530 . Fax : (305)871-1531
WALTER A. TILLIT JR. P.E.
CA-0006719
FLORIDA Lic. # 44167

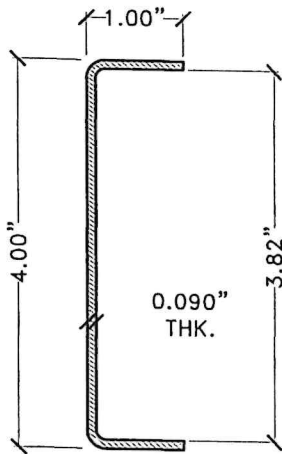
W.H. DRAWN BY: BLADE 1 HORIZONTAL ALUMINUM LOUVER SYSTEM	DATE: 12/03/2025	DRAWING NO. 24-122	SHEET 1 of 7
PARADISE AWNINGS CORPORATION DBA PARADISE ARCHITECTURAL PANELS & STEEL 4310 NW 36TH AVE MIAMI FL 33142 PHONE: (305) 871-1530 EMAIL: INFO@PARADISEAWNS.COM	REV. NO.	DESCRIPTION	DATE
	1	2	

BILL OF MATERIALS:

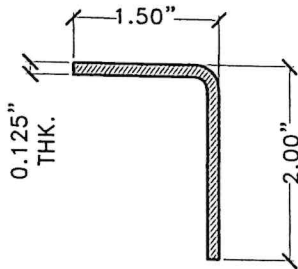
COMPONENT #	DESCRIPTION	DIMENSION	MATERIAL	MANUFACTURER	NOTES
①	BLADE #1	SEE DETAIL	5052-H32 ALUMINUM ALLOY	PARADISE ARCHITECTURAL PANELS & STEEL	WELDED TO ② SEE SECTIONS.
②	CHANNEL JAMB	1"x4"x1"x0.090"THK.	5052-H32 ALUMINUM ALLOY	PARADISE ARCHITECTURAL PANELS & STEEL	USE W/ OR W/O ③ SEE SECTIONS.
③	MOUNTING ANGLE	1.5"x2"x0.125"THK.	5052-H32 ALUMINUM ALLOY	-	USE ONLY AS OPTION TO DIRECT MOUNT TRAPPED SPECIMENS.(SEE SHEETS 2,4,5,6,9)
④	BLADE BRACE ANGLE	0.5"x1.5"x1.5"x0.125"THK.	5052-H32 ALUMINUM ALLOY	-	SCREWED TO ⑧ W/ ⑥ SEE SECTIONS & ELEVATIONS FOR DETAILS.
⑦	POP RIVET	3/16"Ø	SERIES 9444 ALUMINUM (2024-T3 ALLOY) LARGE FLANGE THIN SHEET NUTSERT, PART #0820	AVDEL CHERRY TEXTORN, PARSIPPENY, NEW JERSEY 07054 OR EQUAL.	USE (1) EA ② TO ① FRONT & BACK. @ ENDS.
⑧	STIFFENER CONNECTOR	SEE DETAIL	5052-H32 ALUMINUM ALLOY	PARADISE ARCHITECTURAL PANELS & STEEL	1 1/2" LONG. MAX SPACING=24"O.C
⑨	SILL	SEE DETAIL	5052-H32 ALUMINUM ALLOY	PARADISE ARCHITECTURAL PANELS & STEEL	INCLUDES REAR PLATE
⑩	HEAD	SEE DETAIL	5052-H32 ALUMINUM ALLOY	PARADISE ARCHITECTURAL PANELS & STEEL	W/ ⑦ TO JAMB ② @ ENDS
⑪	DRIP PAN	SEE DETAIL	5052-H32 ALUMINUM ALLOY	PARADISE ARCHITECTURAL PANELS & STEEL	USE ONLY ON SPECIMEN #11



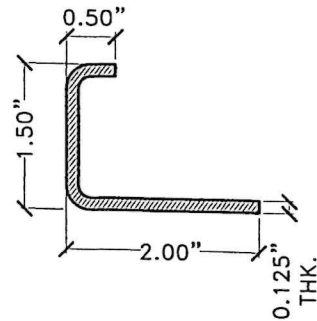
1 BLADE #1



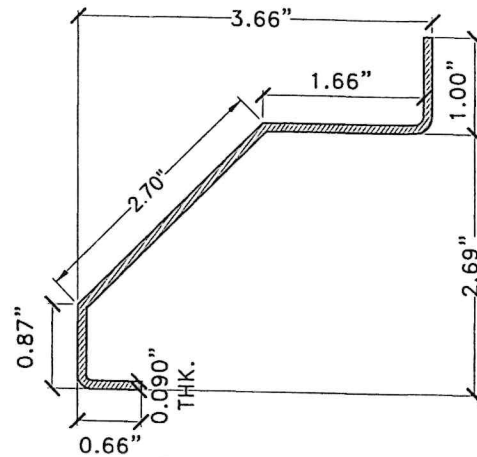
2 CHANNEL JAMB



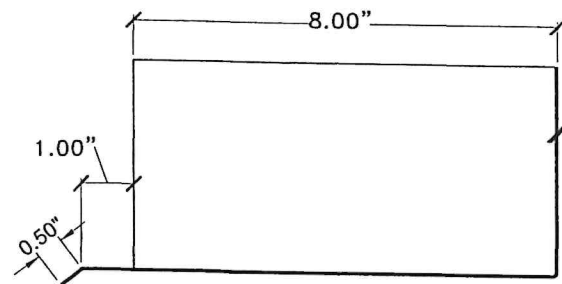
3 MOUNTING ANGLE



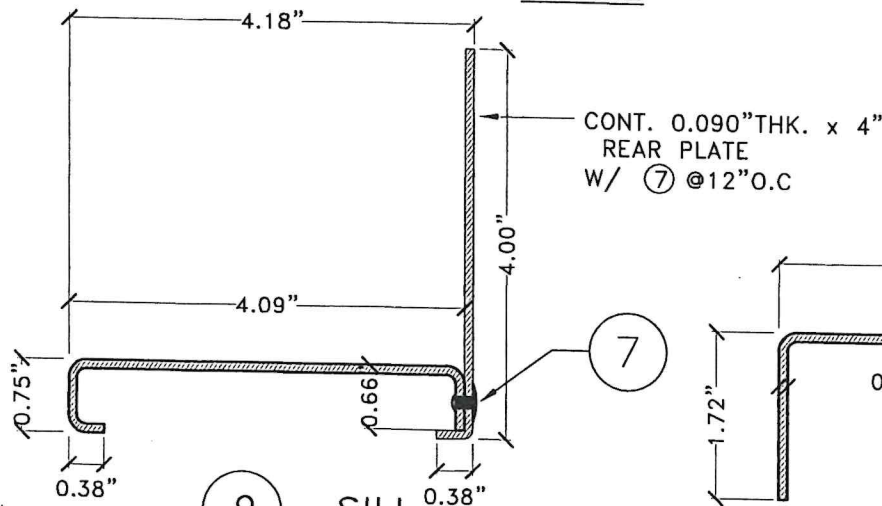
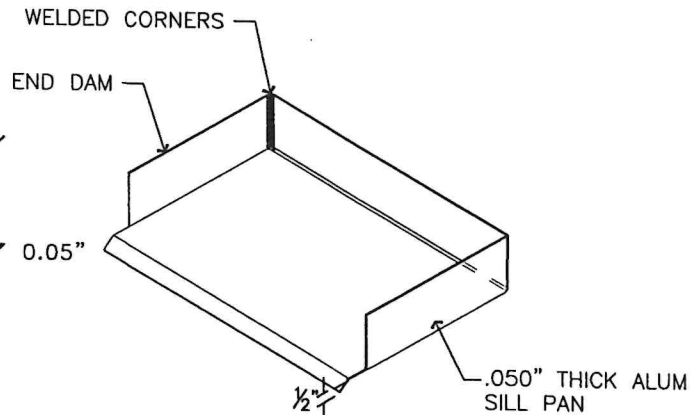
4 BLADE BRACE ANGLE



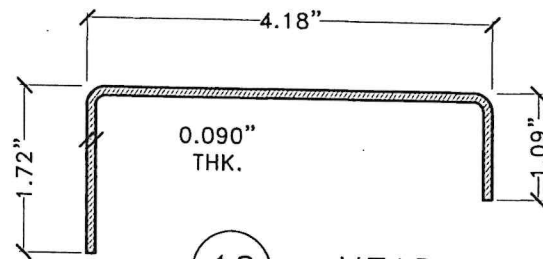
8 STIFFENER CONNECTOR
1 1/2" LONG.



11 DRIP PAN



9 SILL



10 HEAD

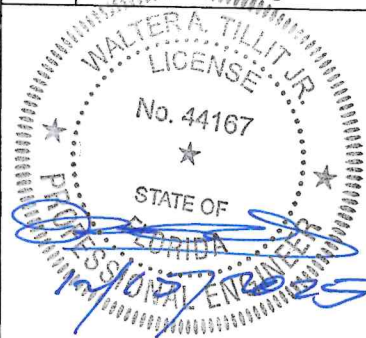
COMPONENTS
SCALE: N.T.S

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

© 2025 TILTECO, INC.

TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167



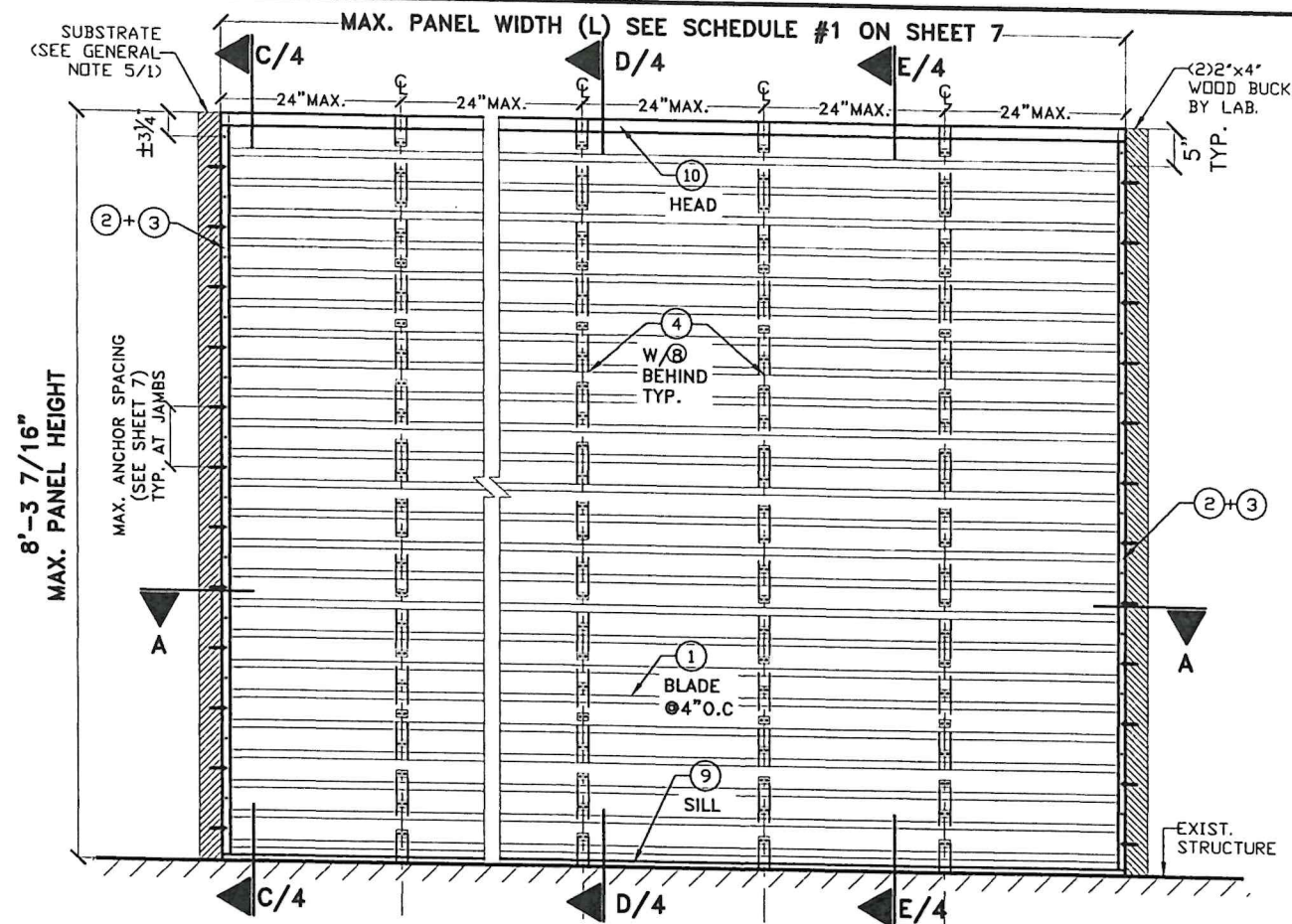
P.E. SEAL/SIGNATURE/DATE

W.H. DRAWN BY: BLADE 1 HORIZONTAL ALUMINUM LOUVER SYSTEM

DATE: 12/03/2025

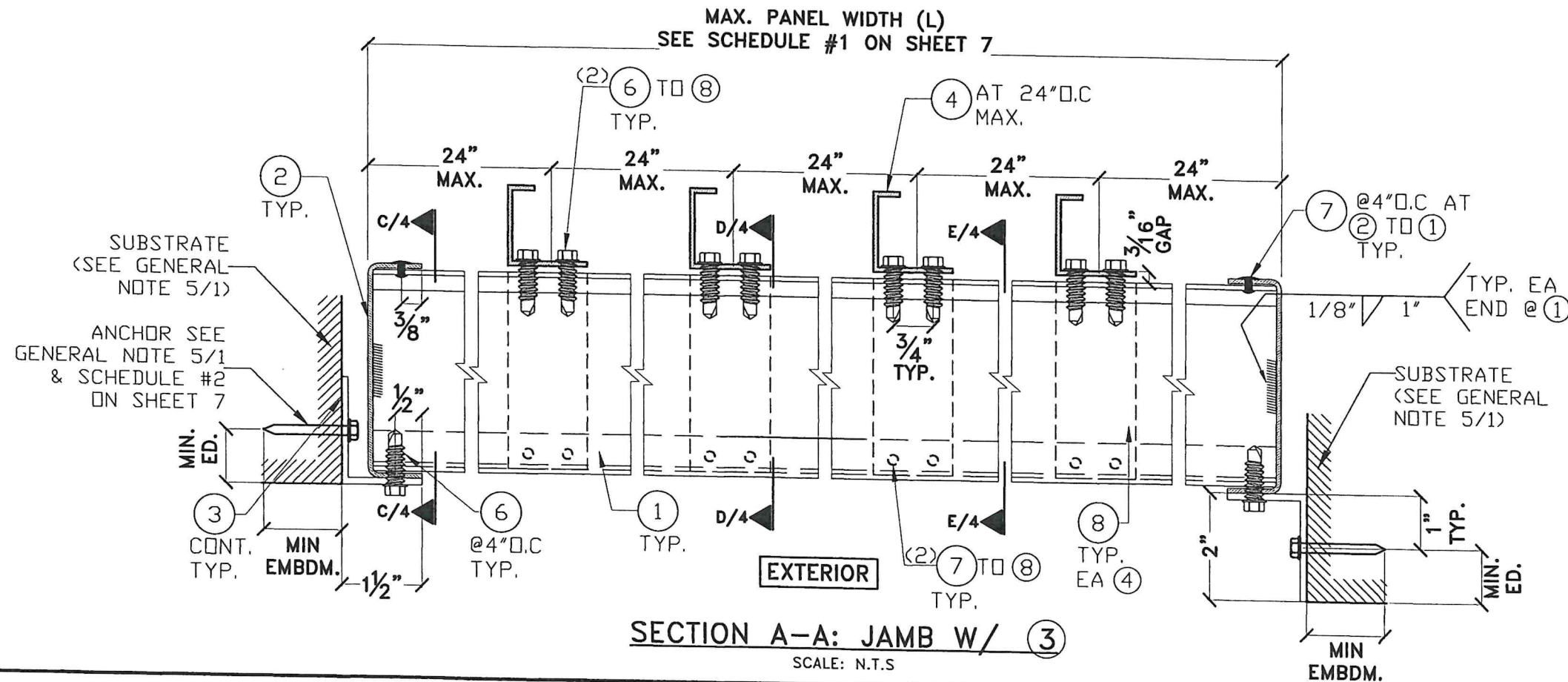
DRAWING NO. 24-122

SHEET 2 of 7



TYPICAL EXTERIOR ELEVATION

SCALE: N.T.S.

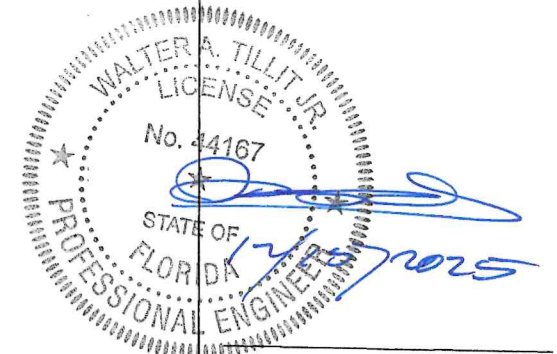


SECTION A-A: JAMB W/ (3)

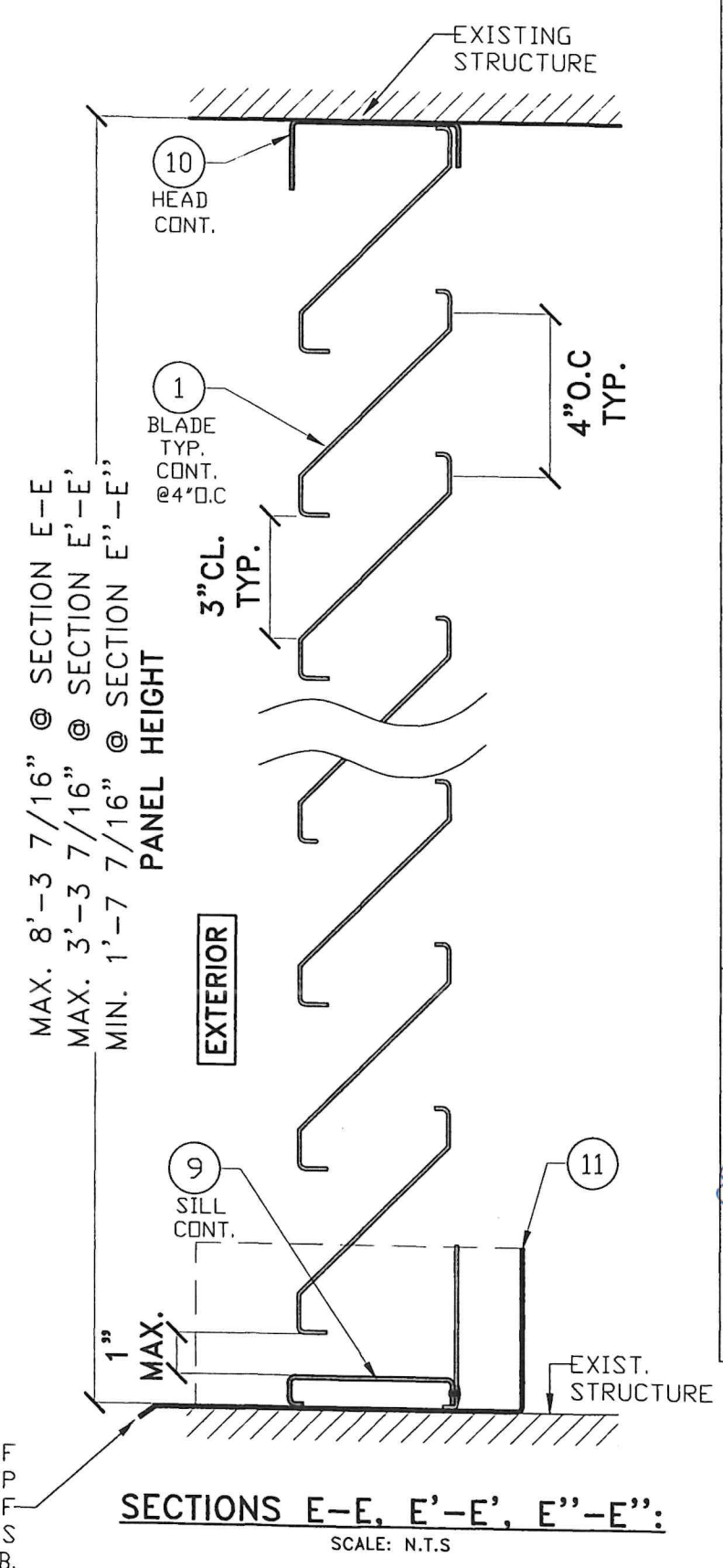
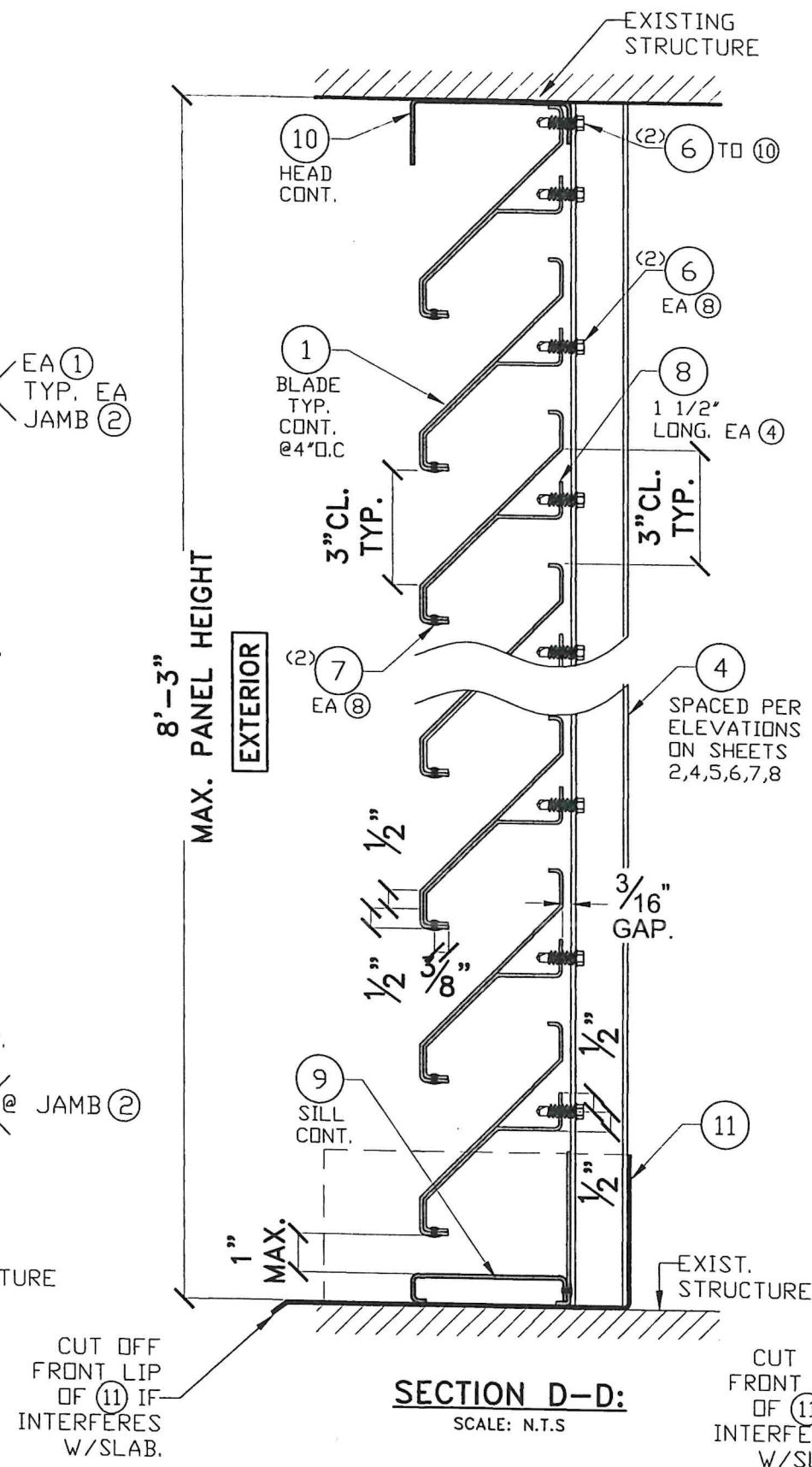
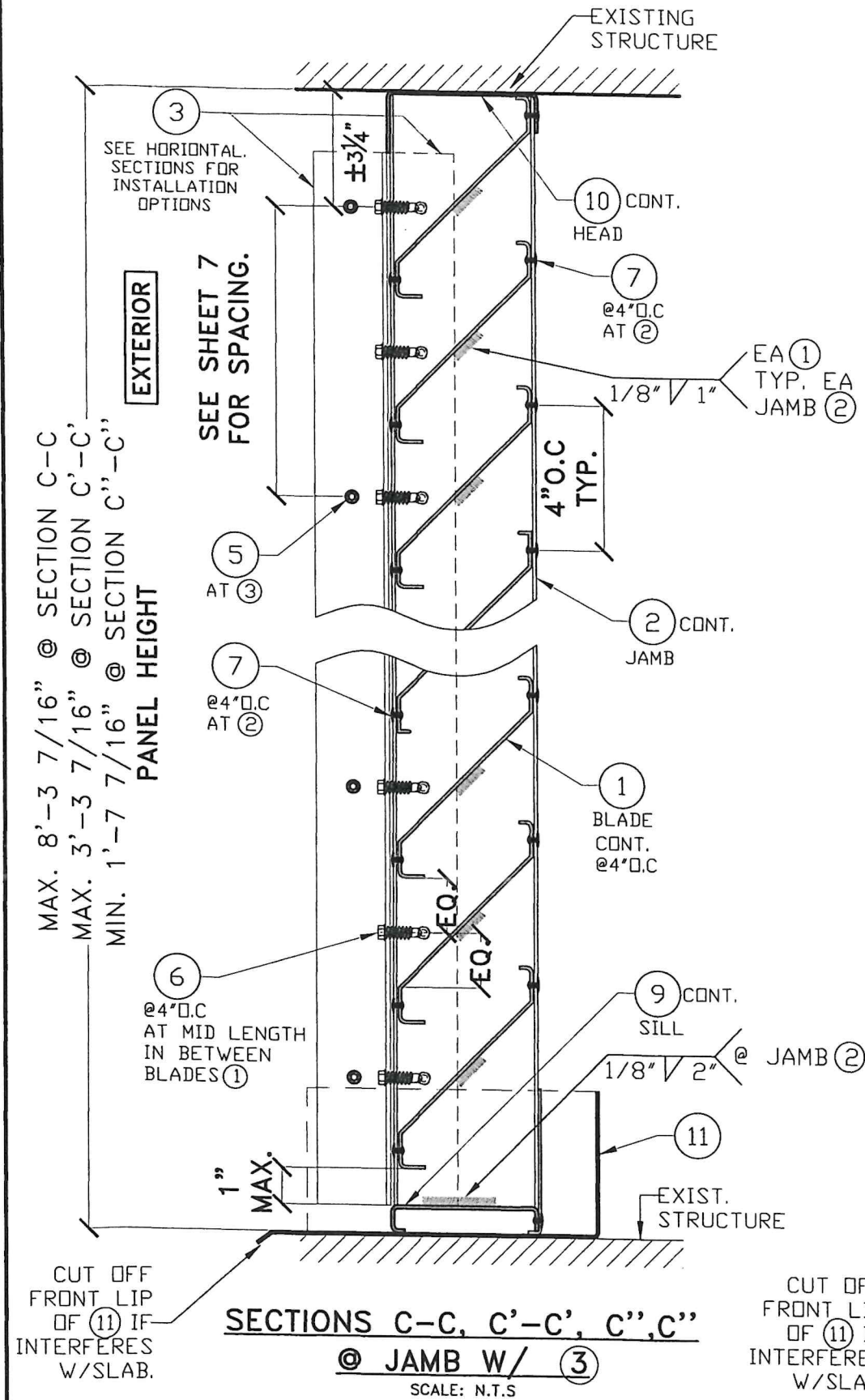
SCALE: N.T.S.

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

© 2025 TILTECO, INC.		BLADE 1 HORIZONTAL ALUMINUM LOUVER SYSTEM		W.H. DRAWN BY: 12/03/2025 DATE: 24-122	
TILTECO INC.		PARADISE AWNINGS CORPORATION DBA PARADISE ARCHITECTURAL PANELS & STEEL		DRAWING No. 24-122	
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 Fax : (305)871-1531		4310 NW 36TH AVE MIAMI FL 33142 PHONE: (305)997-5714 EMAIL: INFO@PANELSANDSTEEL.COM		DRAWING No. 24-122	
WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167		REV. NO. DESCRIPTION DATE REV. NO. DESCRIPTION DATE		SHEET 3 of 7	
		1			
		2			

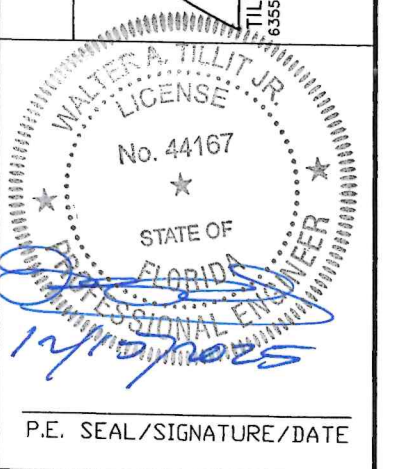


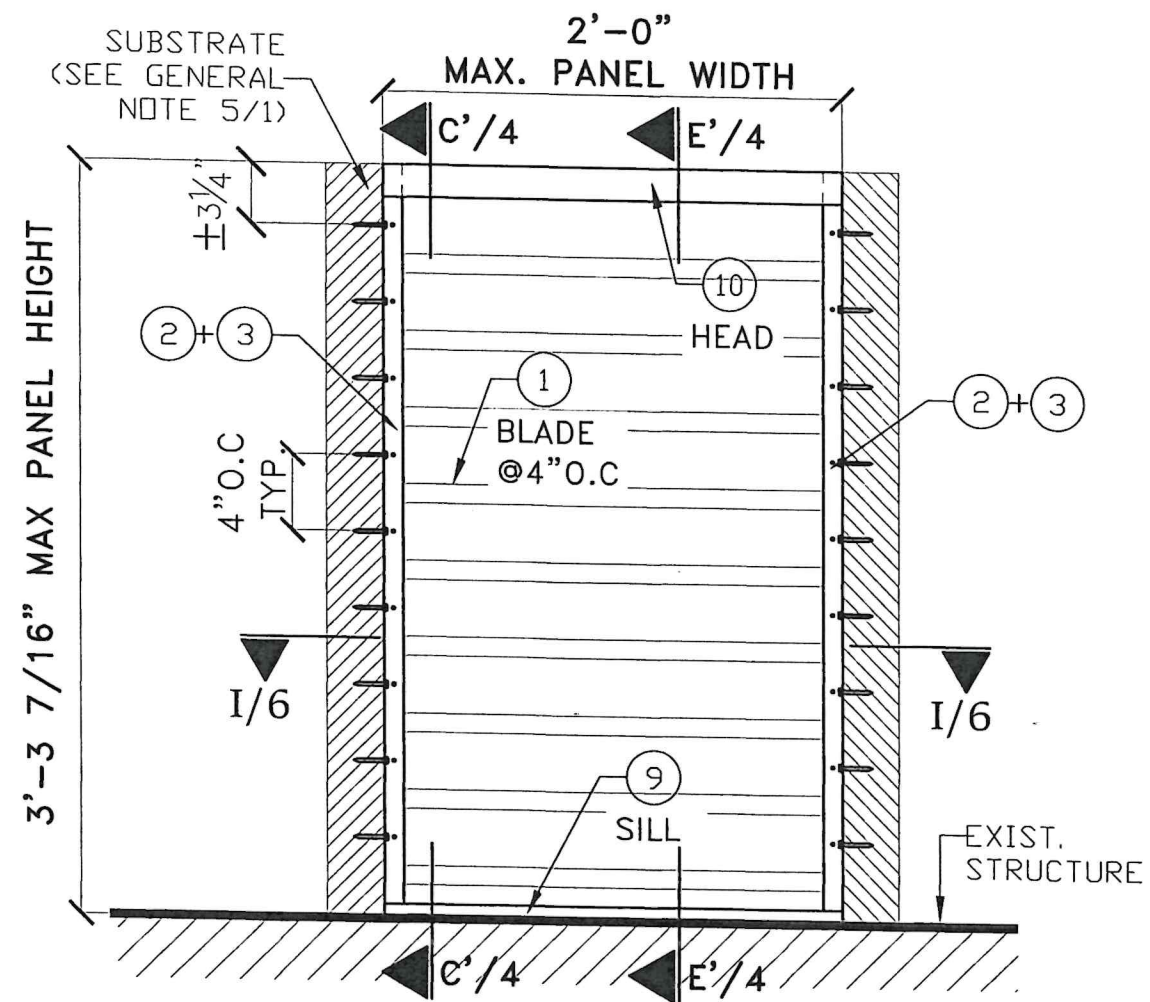
P.E. SEAL/SIGNATURE/DATE



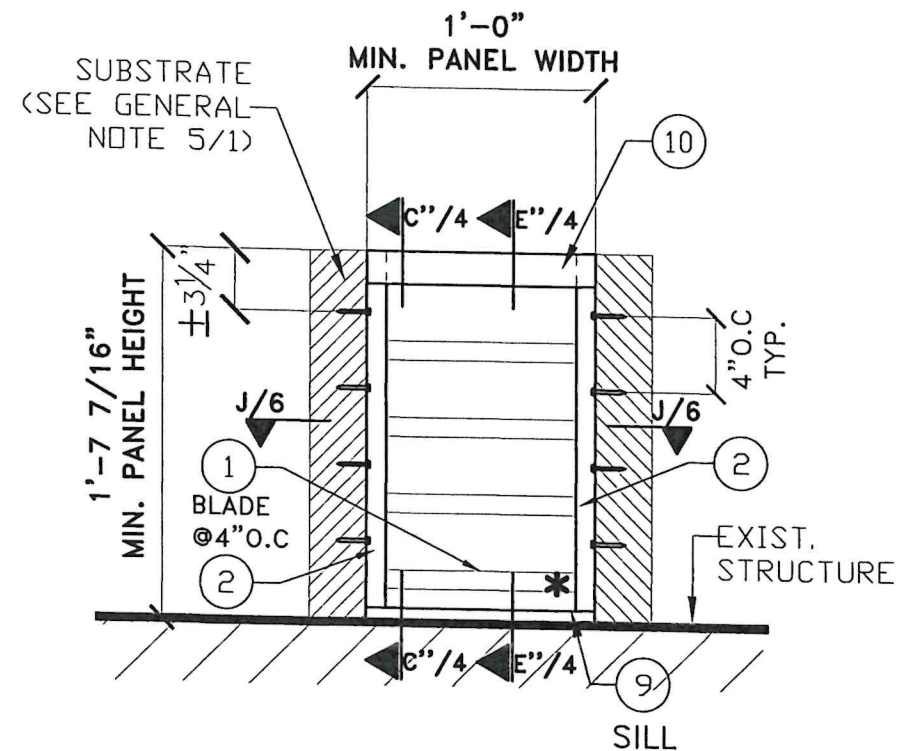
FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

W.H. DRAWN BY:		12/03/2025 DATE:		24-122 DRAWING NO.		SHEET 4 of 7	
BLADE 1 HORIZONTAL ALUMINUM LOUVER SYSTEM		PARADISE AWNINGS CORPORATION DBA PARADISE ARCHITECTURAL PANELS & STEEL		4310 NW 36TH AVE MIAMI, FL 33144 PHONE: (305) 351-1414 EMAIL: INFO@PARADELSANDSTEEL.COM			
REV. NO.	DESCRIPTION	DATE	REV. NO.	DESCRIPTION	DATE		
1			2				





EXTERIOR ELEVATION
SINGLE PANEL
MAX. PANEL WIDTH & HEIGHT W/O STIFFER (4)



EXTERIOR ELEVATION
SINGLE PANEL
MIN. PANEL WIDTH & HEIGHT W/O STIFFER (4)

FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

© 2025 TILTECO, INC.

BLADE 1 HORIZONTAL ALUMINUM
LOUVER SYSTEM

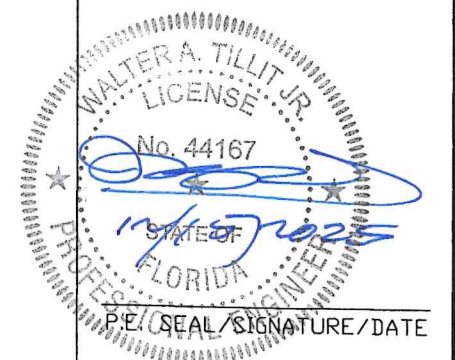
W.H.
DRAWN BY:
12/03/2025
DATE:

PARADISE AWNINGS CORPORATION
DBA PARADISE ARCHITECTURAL
PANELS & STEEL

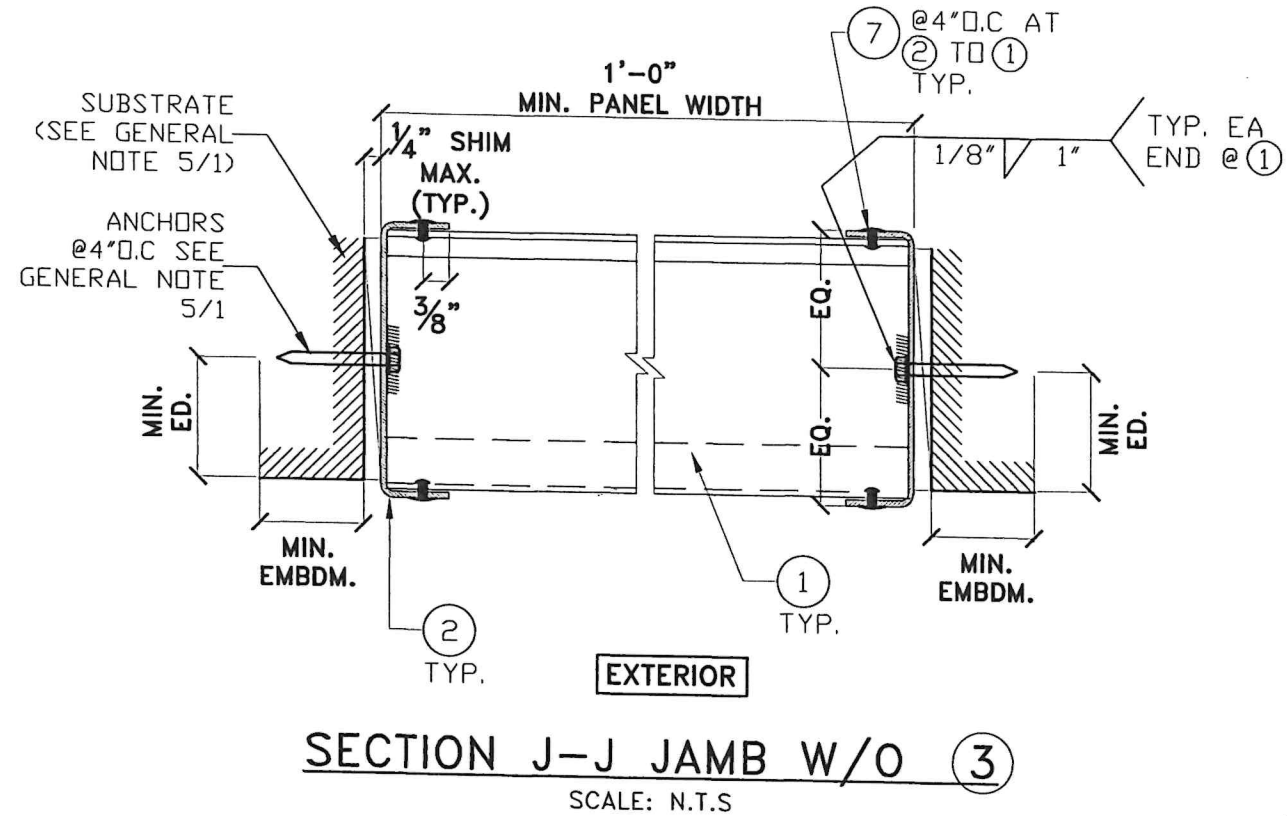
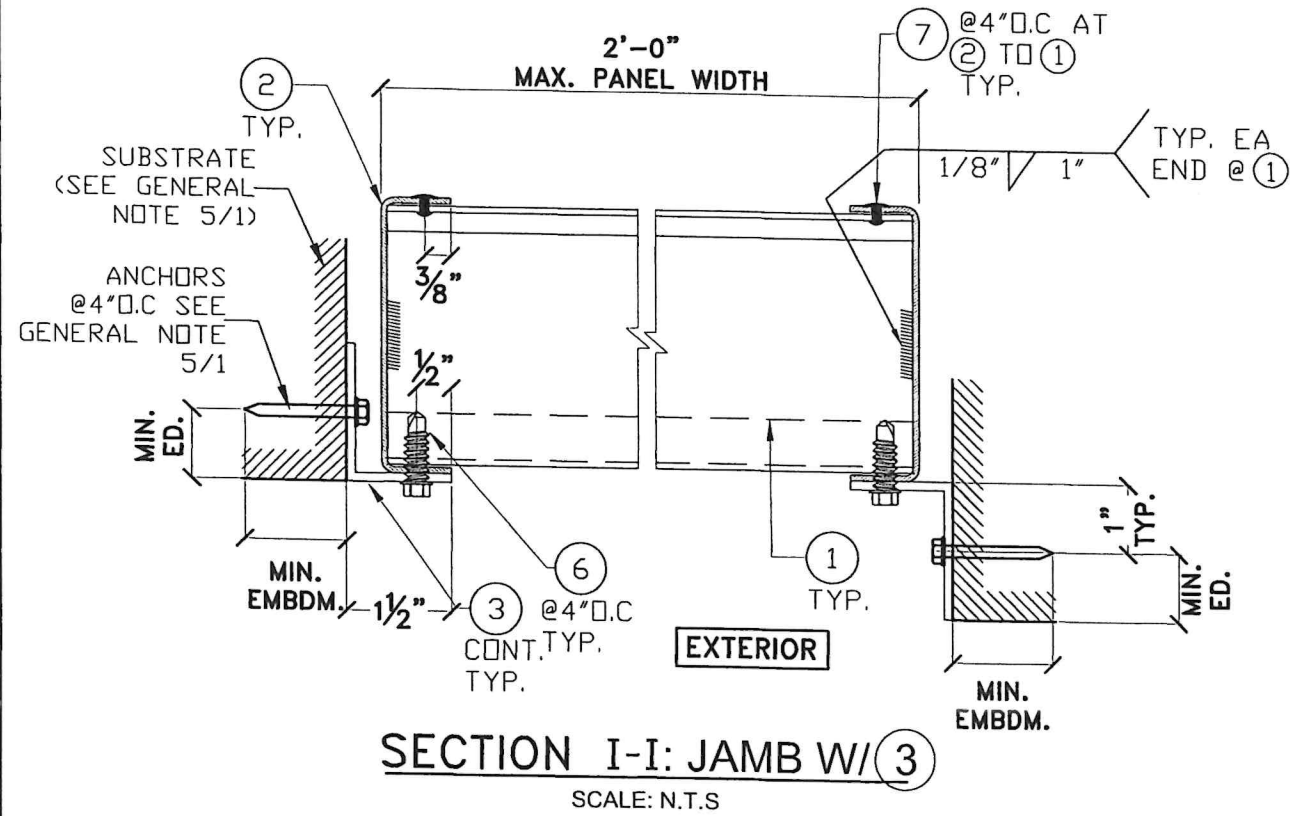
24-122
DRAWING No.

SHEET 5 of 7

TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167



P.E. SEAL/SIGNATURE/DATE



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

© 2025 TILTECO, INC.

BLADE 1 HORIZONTAL ALUMINUM LOUVER SYSTEM

W.H. DRAWN BY: 12/03/2025 DATE:

PARADISE AWNINGS CORPORATION DBA PARADISE ARCHITECTURAL PANELS & STEEL

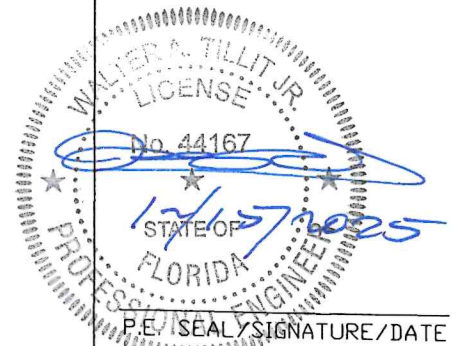
4310 NW 36TH AVE
MIAMI FL 33142
PHONE: (305) 597-5714
EMAIL: INFO@PARADISEAWINGS.COM

24-122 DRAWING NO.

SHEET 6 OF 7

TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305) 871-1530 . Fax : (305) 871-1531
CA-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167



SCHEDULE #1:

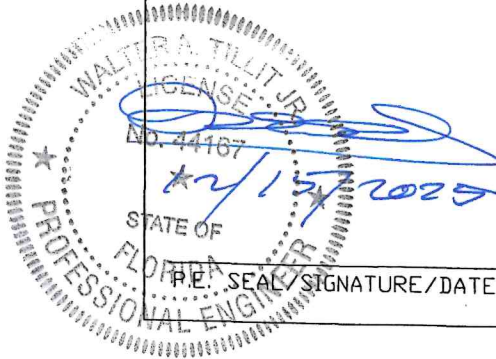
MAX PANEL WIDTH (L) FOR A GIVEN
A.S.D PRESSURE, VALID FOR ALL
SUBSTRATES AT JAMBS

A.S.D PRESSURE	MAX. PANEL WIDTH (L)
±55.0 psf OR LESS	10'-0"
>55.0 psf TO 65.0 psf	9'-0"
>65.0 psf TO 75.0 psf	8'-6"
>75.0 psf TO 100.0 psf	7'-10"
>100.0 psf TO 150.0 psf	6'-8"

SCHEDULE #2:

MAX. ANCHOR SPACING FOR A MAX. PANEL
WIDTH (L) PER SCHEDULE #1 & A.S.D
PRESSURE FOR DIFFERENT SUBSTRATES.

A.S.D PRESSURE	CONCRETE OR ALUM. OR STEEL	GROUTED CONCRETE BLOCK	WOOD
±55.0 psf OR LESS	8"O.C	8"O.C	8"O.C
>55.0 psf TO 65.0 psf	8"O.C	8"O.C	8"O.C
>65.0 psf TO 75.0 psf	8"O.C	8"O.C	8"O.C
>75.0 psf TO 100.0 psf	8"O.C	8"O.C	4"O.C
>100.0 psf TO 150.0 psf	8"O.C	8"O.C	4"O.C



FLORIDA BUILDING CODE (HIGH & NON HIGH VELOCITY HURRICANE ZONE)

© 2025 TILTECO, INC.		BLADE 1 HORIZONTAL ALUMINUM LOUVER SYSTEM		W.H. DRAWN BY: 12/03/2025 DATE:	
 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 303, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		PARADISE AWNINGS CORPORATION DBA PARADISE ARCHITECTURAL PANELS & STEEL 4310 NW 36TH AVE MIAMI FL 33142 PHONE (305)897-5714 EMAIL INFO@PANELSANDSTEEL.COM		24-122 DRAWING No.	
		REV. NO	DESCRIPTION	DATE	REV. NO
1			2		