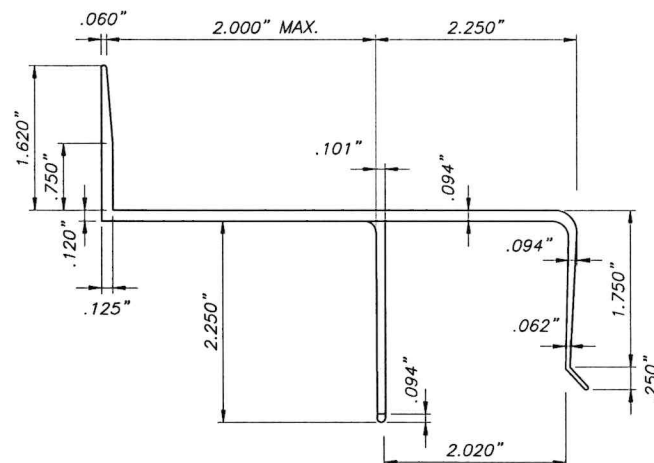
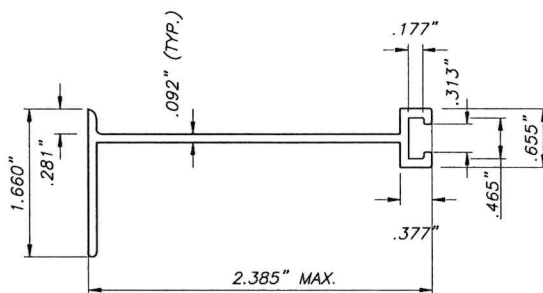


① **PANEL**



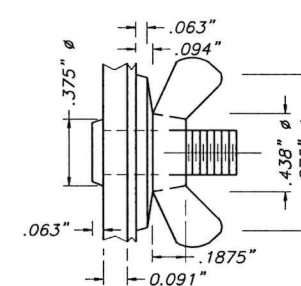
③ **B.O. HEADER**

(6005-T5 ALUMINUM ALLOY)
SCALE: 1/2" = 1"



④ **B.O. "F" ANGLE**

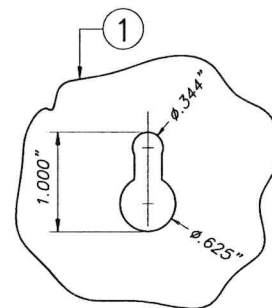
SCALE: 1/2" = 1"



⑤ **ANGLE WITH STUD**

SCALE: 1/2" = 1"

DETAIL 1:
STUD W/ WING NUT
N.T.S



⑥ **KEY HOLE AT PANEL**

GENERAL NOTES:

1. STORM PANEL SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2026 (9th EDITION) OF THE FLORIDA BUILDING CODE.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THESE SHUTTERS WILL BE INSTALLED. FOR A DIRECTIONALITY FACTOR $K_d=0.85$, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 4 & 5.

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 SHEET 4 & 5.

STORM PANEL'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER FENESTRATION TESTING LAB REPORTS # 2619,2653 & # 4676,4677, PER SSTO 12-99 STANDARD & TAS 202 PROTOCOL (9Lb, 2"x4" 50H/Sec MISSILE.)

2. ALL ALUMINUM SHEET METAL PANELS SHALL HAVE 5052-H32 ALLOY.

3. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY UNLESS OTHERWISE NOTED. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

4. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 KSI YIELD STRENGTH AND 90 KSI TENSILE STRENGTH AND SHALL COMPLY W/ FLORIDA BUILDING CODE SECTIONS 2411.3.3.4 & 1711.

5. BOLTS TO BE ASTM A-307, GALVANIZED OR AISI 304 SERIES STAINLESS STEEL, WITH 36 KSI MINIMUM YIELD STRENGTH

6. ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)*

(A) TO EXISTING POURED CONCRETE:

- 1/4" ULTRACON+ OR 1/4" ULTRACON SS4 ANCHORS AS MANUFACTURED BY DEWALT.
- 1/4" MALE OR FEMALE PANEL MATES AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

NOTES:

A.1) MINIMUM EMBEDMENT INTO POURED CONCRETE OF ULTRACON+ OR ULTRACON SS4 ANCHORS AND PANEL MATES IS 1 3/4".

A.2) 1/4"-20 SCREWS USED FOR FEMALE PANEL MATES SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO. SCREWS SHALL HAVE 3/4" HEAD FOR DIRECT MOUNTED PANELS, AND 3/4" OR 9/16" HEAD FOR ALL TRACKS OR PLATES.

A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS, ANCHORAGE SHALL BE AS INDICATED ON NOTES A.1) & A.2) ABOVE.

(B) TO EXISTING CONCRETE BLOCK WALL:

- 1/4" ULTRACON+ OR 1/4" ULTRACON SS4 ANCHORS BY DEWALT.
- 1/4" MALE OR FEMALE PANEL MATES AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

NOTES:

B.1) MINIMUM EMBEDMENT OF TAPCON OR ULTRACON ANCHORS AND PANEL MATES INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".

B.2) 1/4"-20 SCREWS USED AT FEMALE PANEL MATES SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO. SCREWS SHALL HAVE 3/4" HEAD FOR DIRECT MOUNTED PANELS, AND 3/4" OR 9/16" HEAD FOR ALL TRACKS OR PLATES.

B.3) IN CASE THAT PRECAST STONE OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE 1 1/4" MINIMUM FOR ANCHORS MENTIONED IN B.1 AND B.2).

(C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

*ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300 FT FROM COASTAL SHORELINE.

7. PANELS MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN ON SECTIONS 1 THRU 5 (SHEET 2 & 3 OF 7) EXCEPT THAT HEADER ② & ③ & SHALL NOT BE USED.

8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME BUILDINGS.

9. (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 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.

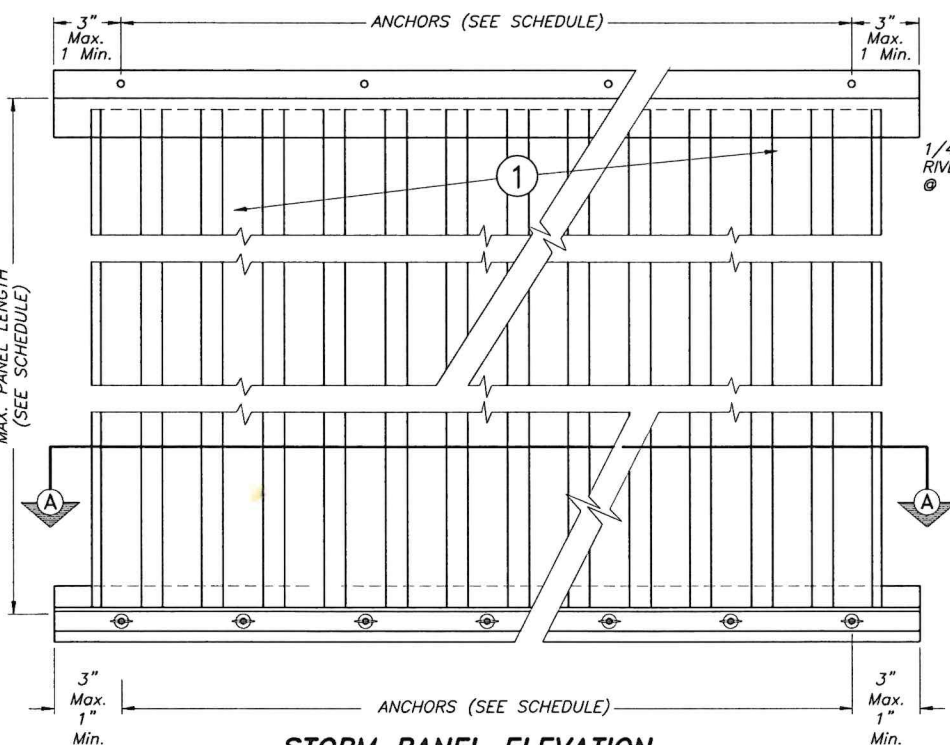
(c) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) WILL BE CONSIDERED INVALID IF MODIFIED.

(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. 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) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

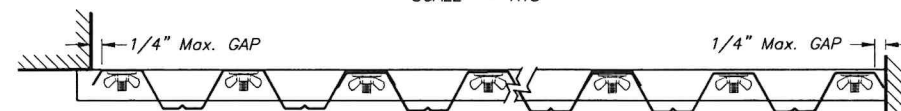
10. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PANEL IN ACCORDANCE WITH SECTION 1709.9.1 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.9.2 OF THE FLORIDA BUILDING CODE.

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)



STORM PANEL ELEVATION

SCALE = NTS

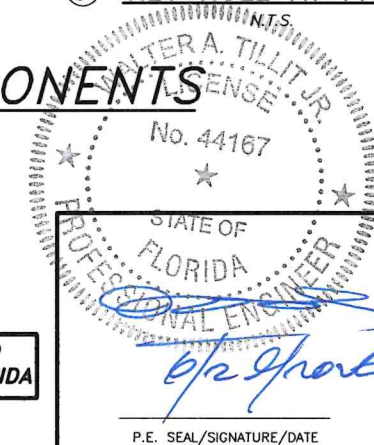


SECTION A-A

SCALE = NTS

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

COMPONENTS



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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

0.050" ALUMINUM STORM PANEL (L.M.I)

RELIABLE SHUTTER COMPANY

180-B RICH STREET
VENICE, FL 34292
PHONE: (800)282-4299
FAX: (941)484-7407

W.H.
DRAWN BY:

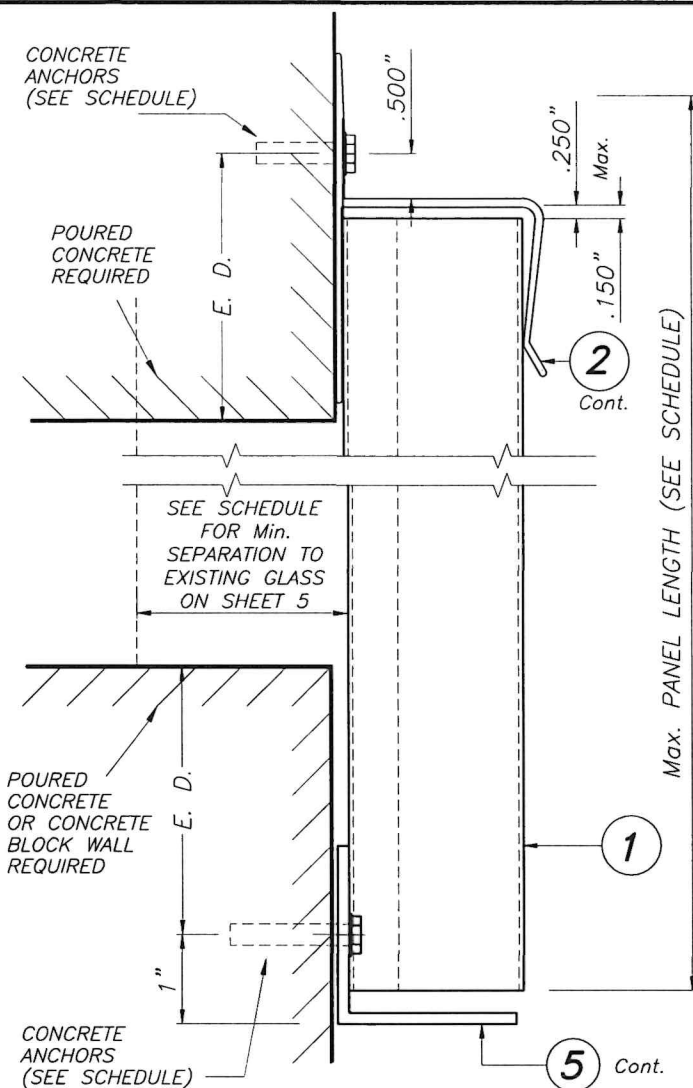
6/22/2026
DATE

26-051

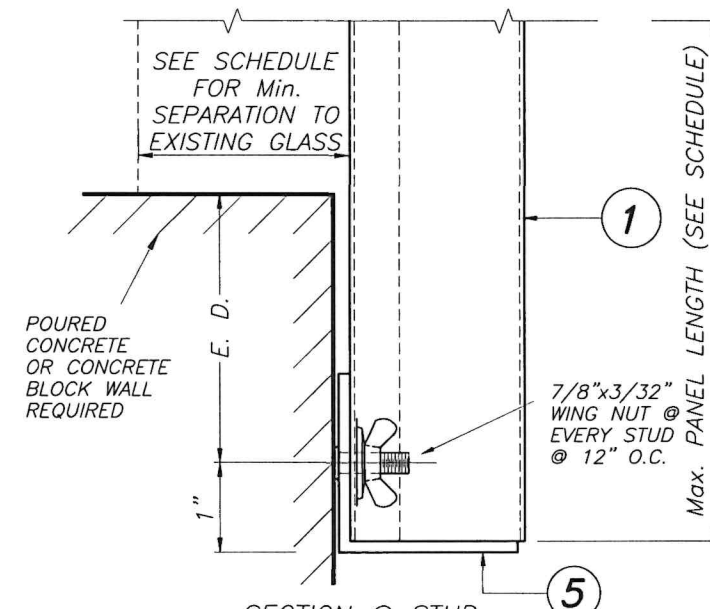
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REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 23-078	6/22/26	3	-	-
2	-	-	4	-	-

SHEET 1 OF 7



SECTION @ ANCHOR



SECTION @ STUD

WALL MOUNT. INSTALL. - SECTION 1

SCALE: 1/2" = 1"

MALE OR FEMALE PANEL MATE ANCHORS W/ 7/8" X 3/32" WING NUTS @ 6 W/ 1/4" - 20 SIDE WALK BOLT * (SEE SCHEDULE FOR SPACING)

POURED CONCRETE OR CONCRETE BLOCK WALL REQUIRED

SEE SCHEDULE FOR Min. SEPARATION TO EXISTING GLASS ON SHEET 5

POURED CONCRETE OR CONCRETE BLOCK WALL REQUIRED

MALE OR FEMALE PANEL MATE ANCHORS W/ 7/8" X 3/32" WING NUTS @ 6 W/ 1/4" - 20 SIDE WALK BOLT * (SEE SCHEDULE FOR SPACING)

DIRECT MOUNTING INSTALLATION SECTION 2

SCALE: 1/2" = 1"

* SIDE WALK BOLT TO BE 3/4" x 3/32" THICK HEAD MACHINE SCREW W/ LENGTH AS PER NOTES A.2 & B.2 (SHEET 1)

CONCRETE ANCHORS (SEE SCHEDULE)

POURED CONCRETE REQUIRED

SEE SCHEDULE FOR Min. SEPARATION TO EXISTING GLASS ON SHEET 5

POURED CONCRETE OR CONCRETE BLOCK WALL REQUIRED

MALE OR FEMALE PANEL MATE ANCHORS W/ 7/8" X 3/32" WING NUTS @ 6 W/ 1/4" - 20 SIDE WALK BOLT * (SEE SCHEDULE FOR SPACING)

SECTION 3

SCALE: 1/2" = 1"

NOTE:

FOR COMBINATION OF SECTIONS : TOP & BOTTOM INSTALLATIONS INDICATED FOR SECTIONS 1 THRU 3 CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

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0.050" ALUMINUM STORM PANEL (L.M.I.)

RELIABLE SHUTTER COMPANY

180-B RICH STREET
VENICE, FL 34292
PHONE: (800)282-4299
FAX: (941)484-7407

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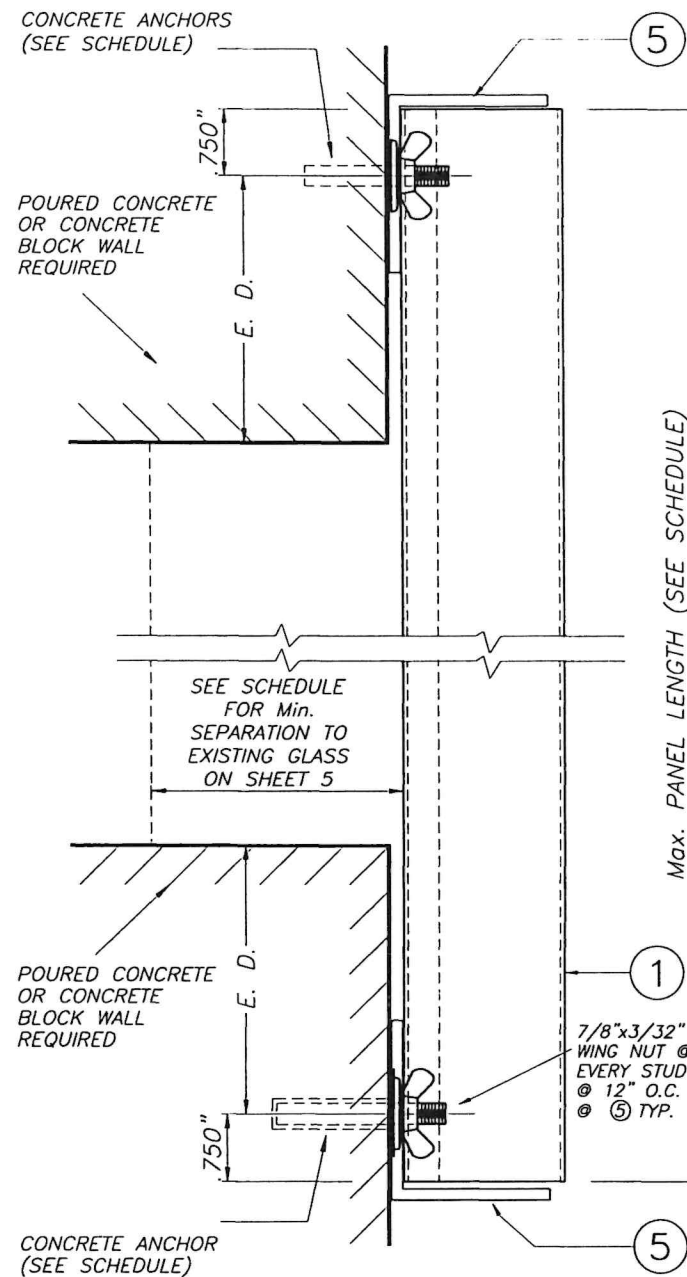
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26-051

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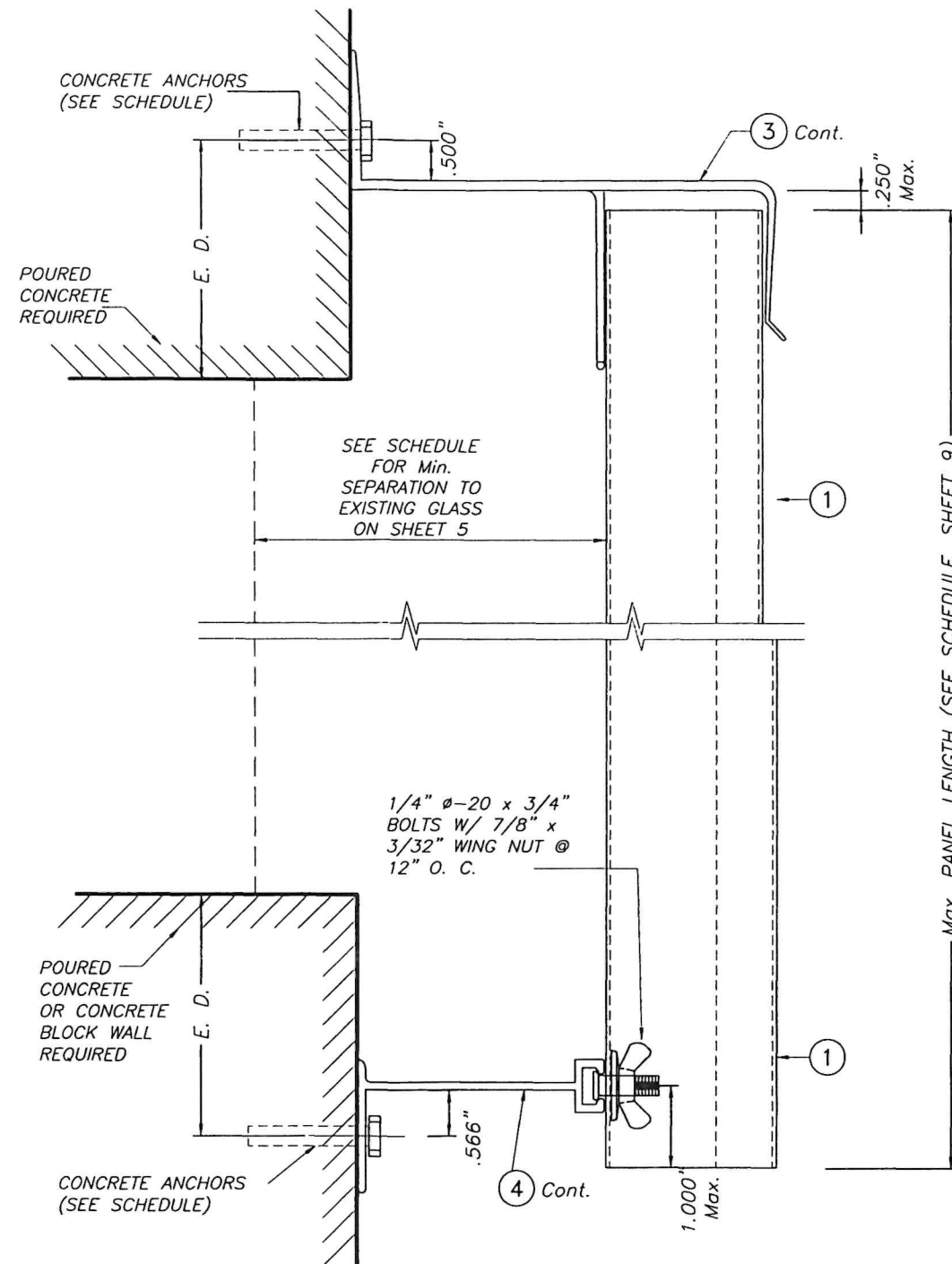
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2	-	-	4	-	-

SHEET 2 OF 7



**WALL MOUNTING INSTALLATION
(D. M.) - SECTION 4**

SCALE: 1/2" = 1"



**BUILD OUT INSTALLATION
SECTION 5**

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEET 4 OF 7)

NOTE:
FOR COMBINATION OF SECTIONS : TOP &
BOTTOM INSTALLATIONS INDICATED FOR
SECTIONS 4 & 5 CAN BE COMBINED IN ANY
WAY TO SUIT ANY INSTALLATION.

WALTER A. TILLIT
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

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2	-	-	4	-	-

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DATE
26-051
DRAWING No
SHEET 3 OF 7

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR INSTALLATIONS INTO CONCRETE AND CONCRETE BLOCK STRUCTURES *

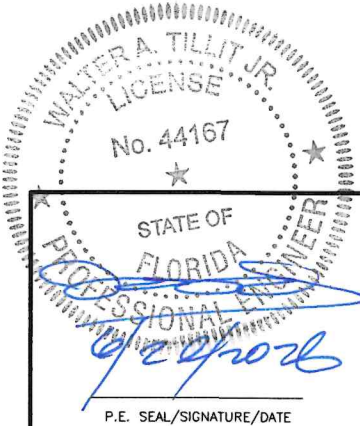
MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **				APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	ULTRACON+ OR ULTRACON SS4		MALE OR FEMALE PANEL MATE			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		
+50.0, -50.0 OR LESS	10"	N/A	10"	N/A	1 (TOP)	8'-1 1/4"
	10"	9"	10"	10"	1 (BOTTOM)	
	N/A	N/A	12"	12"	2 (TOP & BOTTOM)	
	10"	N/A	10"	N/A	3 (TOP)	
	N/A	N/A	12"	12"	3 (BOTTOM)	
	10"	9"	10"	10"	4 (TOP)	
	10"	9"	10"	10"	4 (BOTTOM)	
	10"	N/A	10"	N/A	5 (TOP)	
	10"	9"	10"	10"	5 (BOTTOM)	
>+50.0, -50.0 TO +80.0, -80.0	8"	N/A	8"	N/A	1 (TOP)	8'-1 1/4"
	10"	5"	10"	8"	1 (BOTTOM)	
	N/A	N/A	12"	6"	2 (TOP & BOTTOM)	
	8"	N/A	8"	N/A	3 (TOP)	
	N/A	N/A	12"	6"	3 (BOTTOM)	
	10"	5"	10"	8"	4 (TOP)	
	10"	5"	10"	8"	4 (BOTTOM)	
	10"	N/A	10"	N/A	5 (TOP)	
	10"	5"	10"	6"	5 (BOTTOM)	
+65.0, -65.0	10"	N/A	10"	N/A	1 (TOP)	8'-8"
	10"	6"	10"	9"	1 (BOTTOM)	
	N/A	N/A	12"	6"	2 (TOP & BOTTOM)	
	10"	N/A	10"	N/A	3 (TOP)	
	N/A	N/A	12"	6"	3 (BOTTOM)	
	10"	6"	10"	9"	4 (TOP)	
	10"	6"	10"	9"	4 (BOTTOM)	
	10"	N/A	10"	N/A	5 (TOP)	
	10"	6"	10"	9"	5 (BOTTOM)	

E. D. = EDGE DISTANCE

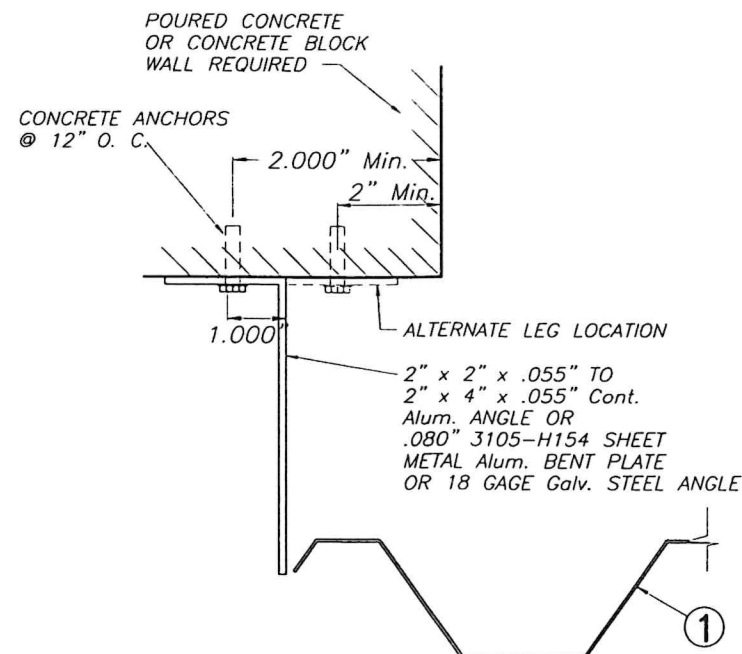
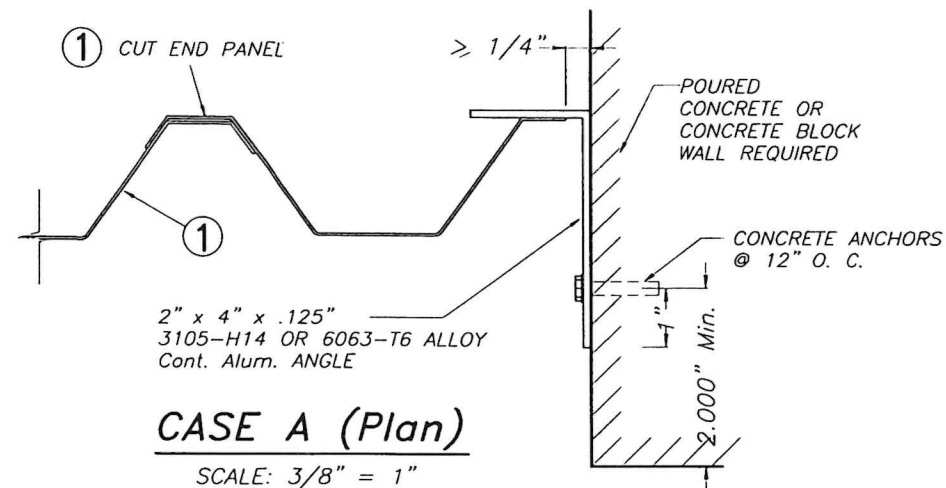
* SEE SHEET 6 & 7 OF 7 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.	
** MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE. FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. (NOTE : Min. E. D. FOR CALK-IN ANCHORS IS 2 1/2"). FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE AT ANCHORS LEGEND.	
ACTUAL E. D.	FACTOR
	ULTRACON+, ULTRACON SS4 OR PANELMATES
3"	.86
2 1/2"	.71
2"	.50

ANCHORS LEGEND

ANCHORS TYPE	ANCHOR MIN. SPACING
ULTRACON+, ULTRACON SS4 OR PANELMATES	3.0"

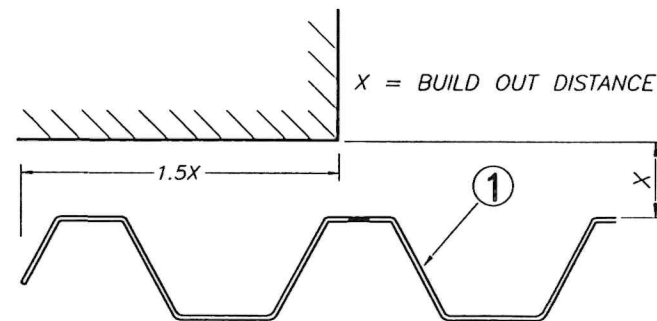
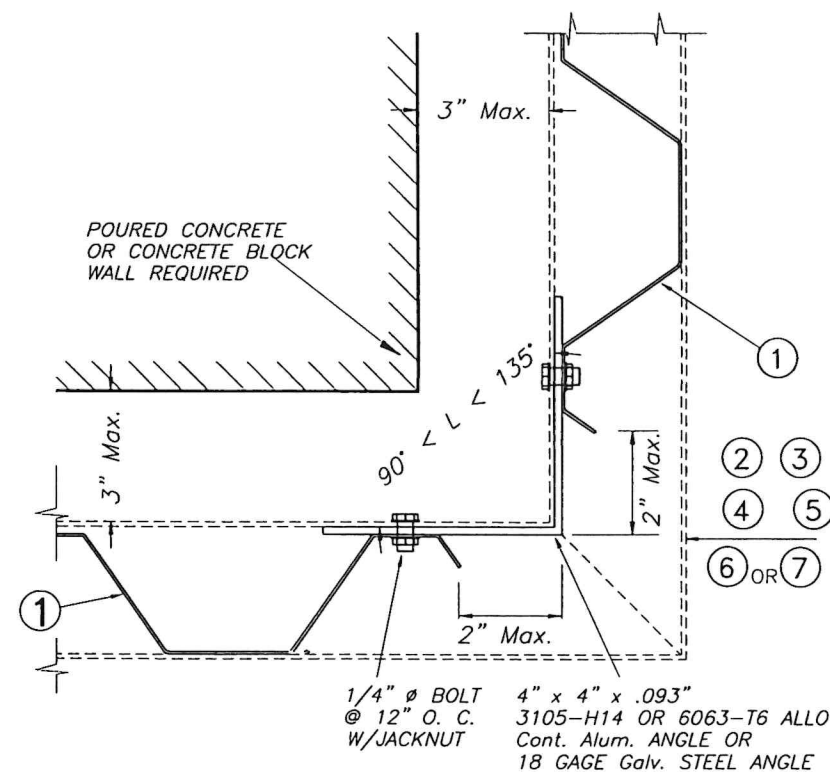


FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)											
©2026 TILTECO, INC.			0.050" ALUMINUM STORM PANEL (L.M.I)			W.H. DRAWN BY:					
 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. 44167			RELIABLE SHUTTER COMPANY 180-B RICH STREET VENICE, FL 34292 PHONE: (800)282-4299 FAX: (941)484-7407			6/22/2026 DATE					
						26-051 DRAWING No					
REV. NO		DESCRIPTION		DATE		REV. No		DESCRIPTION		DATE	
1		OLD 23-078		6/22/26		3		-		-	
2		-		-		4		-		-	
						SHEET 4 OF 7					



CASE C (Plan)

SCALE: 3/8" = 1"



CASE D (Plan)

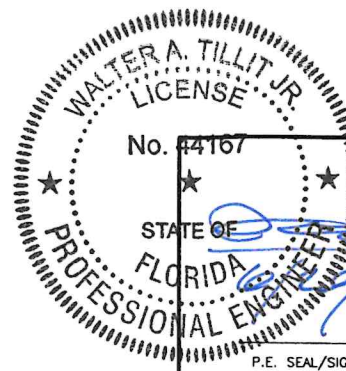
SCALE: 3/8" = 1"

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM PANEL LENGTH "L" SCHEDULE

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	Max. PANEL LENGTH L (ft.) (SEE SECTIONS)	MINIMUM SEPARATION TO GLASS	APPLICABLE TO SECTION # AND ANY COMBINATION OF THEM
+80.0, -80.0	8'-0"	1"	1 THRU 5
+65.0, -65.0	8'-7"	1"	1 THRU 5

NOTE: MINIMUM PANEL LENGTH TO BE INSTALLED IS 36"

END CLOSURES DETAILS



P.E. SEAL/SIGNATURE/DATE

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W.H.
DRAWN BY:

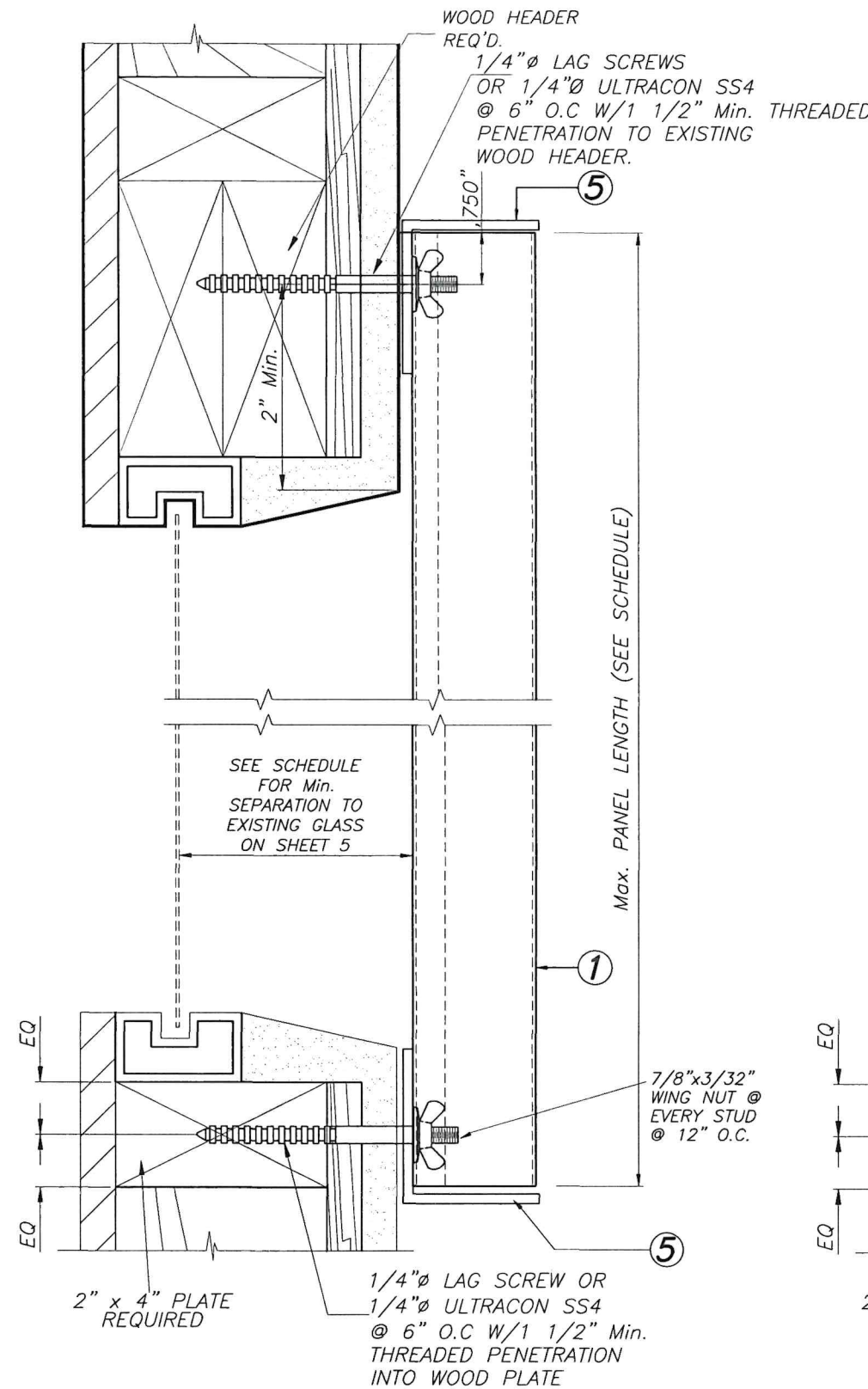
6/22/2026
DATE

26-051

DRAWING No

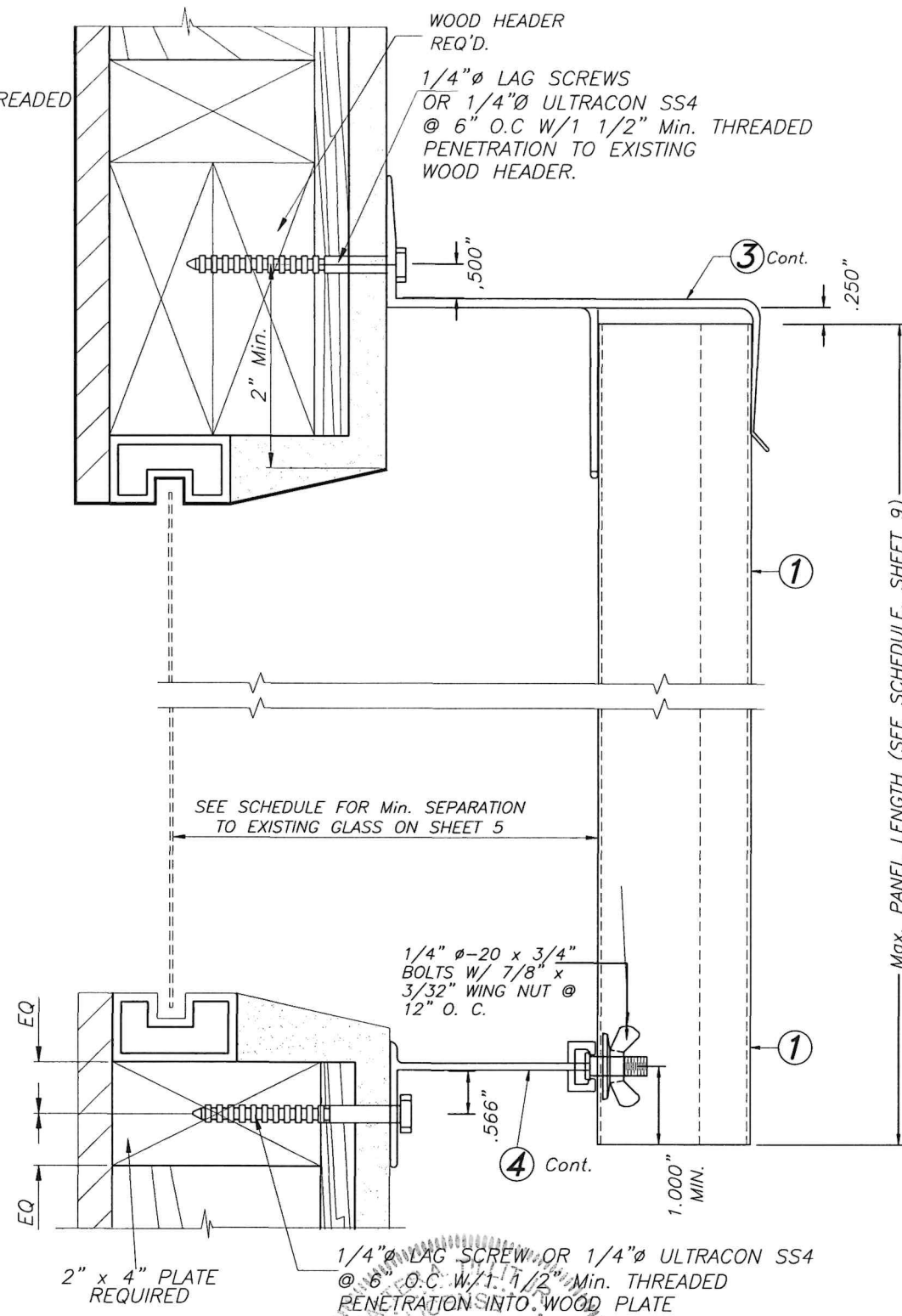
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2	-	-	4	-	-

SHEET 5 OF 7



ALTERNATIVE 4

SCALE : 1/2" = 1"



ALTERNATIVE 5

SCALE : 1/2" = 1"

NOTE:

FOR COMBINATION OF SECTIONS : TOP & BOTTOM INSTALLATIONS INDICATED FOR ALTERNATIVES 4 & 5 CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

No. 44167 STATE OF FLORIDA PROFESSIONAL ENGINEER WALTER A. TILLIT JR., P.E. P.E. SEAL/SIGNATURE/DATE		©2026 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		0.050" ALUMINUM STORM PANEL (L.M.I.) RELIABLE SHUTTER COMPANY 180-B RICH STREET VENICE, FL 34292 PHONE: (800)282-4299 FAX: (941)484-7407		W.H. DRAWN BY: 6/22/2026 DATE 26-051 DRAWING No SHEET 7 OF 7
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE	
1	OLD 23-078	6/22/26	3	-	-	
2	-	-	4	-	-	