

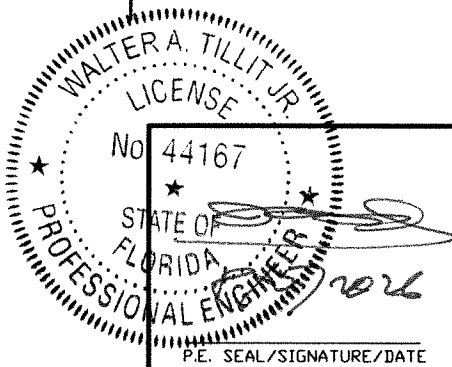
GENERAL NOTES:

1. STORM PANEL SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE **2026 (9th EDITION)** OF THE FLORIDA BUILDING CODE. THIS STORM PANEL SHALL **NOT** BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MIAMI-DADE / BROWARD COUNTIES).
- DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION **1609** OF THE ABOVE MENTIONED CODE, FOR A WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THESE SHUTTERS WILL BE INSTALLED AND FOR A DIRECTIONALITY FACTOR $K_d = 0.85$, USING **ASCE 7-22** SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 5 THRU 9.
- IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-22** SHALL FIRST BE REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE WITH MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 5 THRU 9.
- 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, PER ANSI/AWS-NDS 2024.
- 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 ATL REPORTS # 0121.01-98R, # 0329.01-00, # 0525.01-00 AND #0512.01-03 AND #0617.02-04, AS PER IMPACT TESTING EQUIVALENT TO ASTM E-1996 STANDARD & ASTM E 330 STANDARD, LIMITED TO INSTALLATIONS WITHIN WIND ZONES 1, 2 & 3 AS DEFINED BY ASTM E-1996 STANDARD; AND #0221.01-01 PER TAS 201, 202 & 203 MISSILE TYPE D.
2. ALL ALUMINUM SHEET METAL PANELS SHALL HAVE 5052-H32 OR 3004-H34 ALLOY.
3. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY & TEMPER UNLESS OTHERWISE NOTED. STORM PANEL COMPONENTS (4) STUDDED PLATE AND (5) SNAP CAP ARE PATENT PENDING. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.
4. ALL SCREWS SHALL 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 & SHALL COMPLY WITH FLORIDA BUILDING CODE SECTIONS **2411.3.3.4 & 1711**.
5. BOLTS SHALL BE ASTM A-307 GALVANIZED STEEL OR AISI 304 SERIES STAINLESS STEEL, WITH 35 ksi MINIMUM YIELD STRENGTH.
6. ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)*
- (A) TO EXISTING POURED CONCRETE:
- 1/4" Ø 410 SS TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX OR 1/4"Ø ULTRACON+ OR ULTRACON SS4 BY DEWALT.
 - 1/4" Ø CF TAP-GRIP ANCHORS (BERTHA STUD-CON), AS MANUFACTURED BY TRU-FAST CORPORATION.
 - 1/4" Ø ELCO male & female "PANELMATE" AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
 - 1/4" Ø ALL THREADED 304 S.S ROD, BY HILLMAN GROUP.
- NOTES:
- A.1) MINIMUM EMBEDMENT INTO POURED CONCRETE OF 1/4" Ø ANCHORS IS 1 3/4".
- A.2) FEMALE PANEL MATE ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4"Ø-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- 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" Ø TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX OR ULTRACON+ OR ULTRACON SS4 BY DEWALT.
 - 1/4" Ø CF TAP-GRIP ANCHORS (BERTHA STUD-CON), AS MANUFACTURED BY TRU-FAST CORPORATION.
 - 1/4" Ø ELCO male & female "PANELMATE" AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
 - 1/4" Ø ALL THREADED 304 S.S ROD ANCHORS BY HILLMAN GROUP
 - 1/4" Ø RED HEAD DYNABOLT SLEEVE ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX.

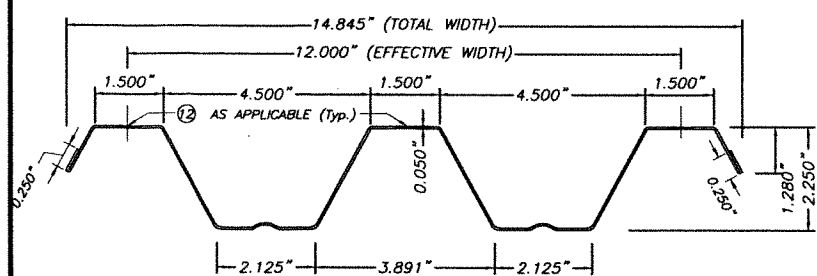
NOTES:

- B.1) MINIMUM EMBEDMENT OF 1/4"Ø ANCHORS INTO CONCRETE BLOCK UNIT SHALL BE 1 1/4".
- B.2) FEMALE PANEL MATE ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4"Ø-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- 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 AS INDICATED ON NOTES IN B.1) AND B.2) ABOVE.
- (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 300ft OF THE COASTAL SHORELINE.
7. PANELS MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN ON SECTIONS 1 THRU 8 (SHEET 3 & 4 OF 9) EXCEPT THAT HEADERS 3, 4 & 5 SHALL NOT BE USED.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE THE SHUTTER IS TO BE ATTACHED TO ENSURE PROPER ANCHORAGE. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME BUILDINGS.
9. THE INSTALLATION CONTRACTOR IS TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION. CAULK AND SEAL SHUTTER TRACKS ALL AROUND FULL LENGTH.
10. (a) THIS 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) THE CONTRACTOR IS 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 P.E.D. WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHO 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 THE 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 WHO PREPARED IT.
11. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED AT A READILY VISIBLE LOCATION ON THE STORM PANEL IN ACCORDANCE WITH SECTION 1709.9.3 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING SHALL COMPLY WITH SECTION 1709.9.2 OF THE FLORIDA BUILDING CODE.

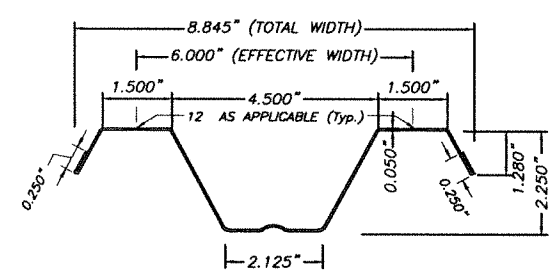
THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA



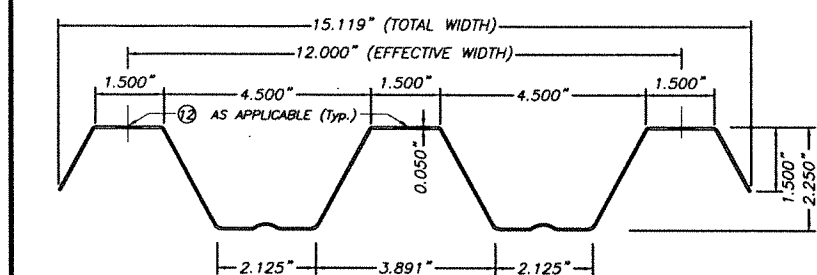
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
© 2026 TILTECO, INC.			0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)		W.H. DRAWN BY:
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167			EASTERN METAL SUPPLY, INC 4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)209-8263 FAX: (561)841-1716		7/23/2026 DATE:
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-186	7/23/26	3		
2			4		
					26-228 DRAWING No
					SHEET 1 OF 14



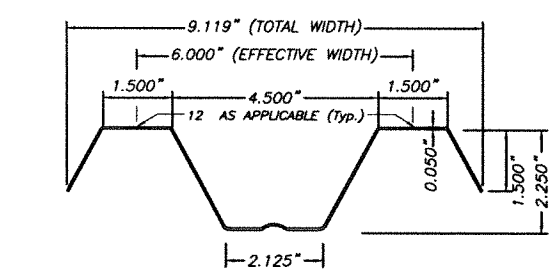
1 FULL ALUMINUM PANEL W/ HEMMED EDGES



1A HALF ALUMINUM PANEL W/ HEMMED EDGES

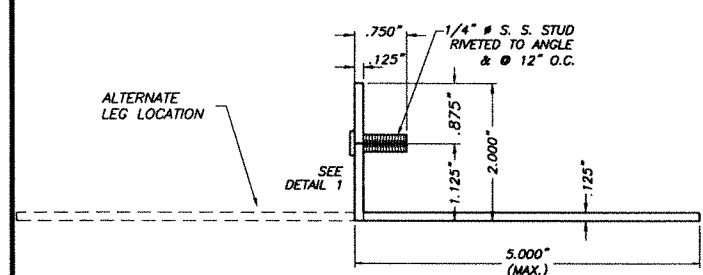


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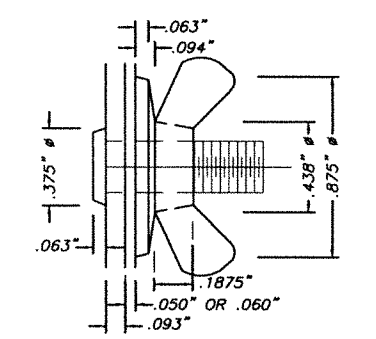


1A HALF ALUMINUM PANEL W/O HEMMED EDGES

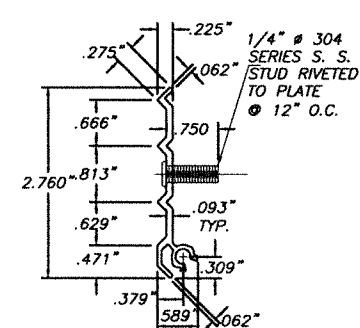
1 STORM PANEL
SCALE: 1/4" = 1"



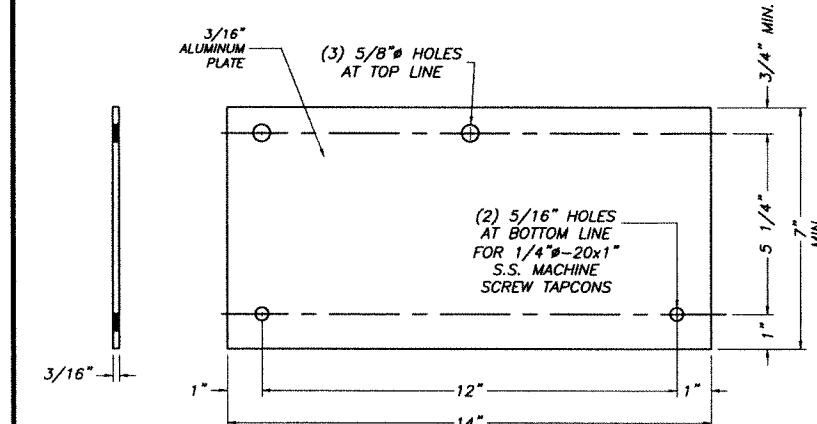
17 2"x5"(MAX.)x1/8"
ANGLE WITH STUD
SCALE: 3/8" = 1"



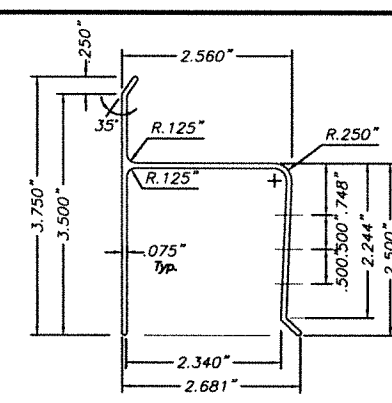
DETAIL 1: STUD W/ DIE CAST ZINC
NICKEL PLATED WING NUT



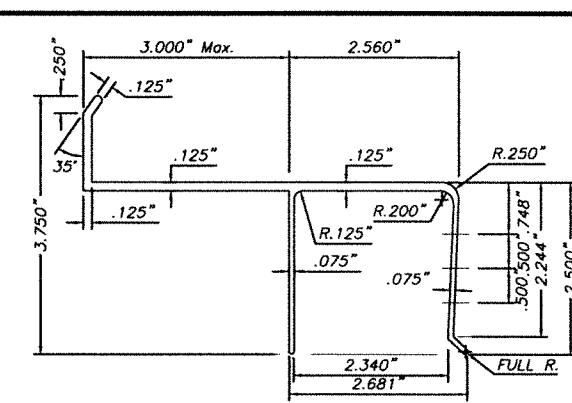
14 STUDDED PLATE
6063-T5 ALLOY
SCALE: 1" = 1"



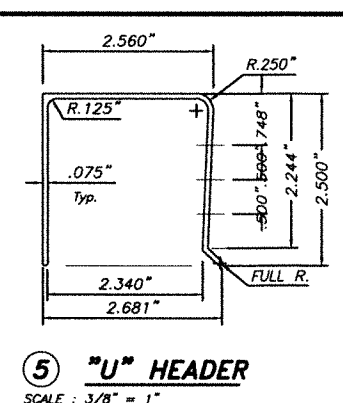
16 3/16"x7"x14" LONG WALL PLATE
SCALE: 3/16" = 1"



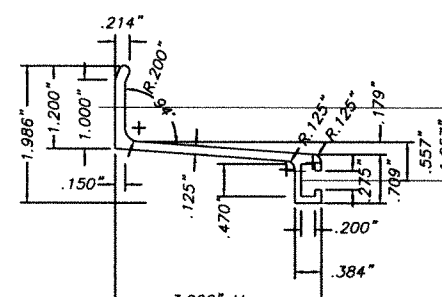
3 "h" HEADER
SCALE: 3/8" = 1"



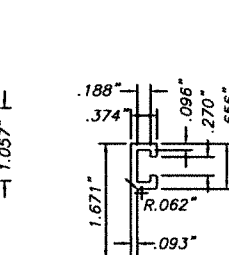
4 3" Max. "U" BUILD OUT
SCALE: 3/8" = 1"



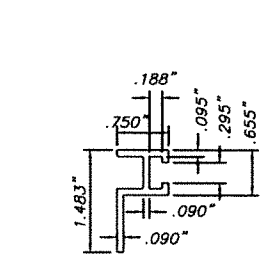
5 "U" HEADER
SCALE: 3/8" = 1"



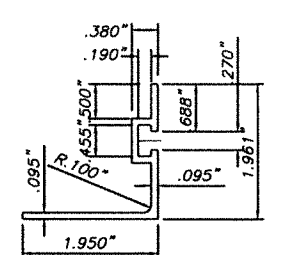
6 3" ANGLE BUILD OUT
BRACKET SCALE: 3/8" = 1"



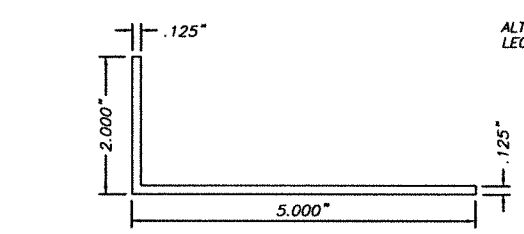
7 3/8" B. O.
"F" TRACK
SCALE: 3/8" = 1"



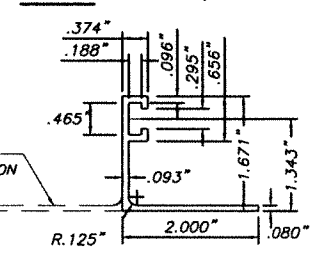
7A 3/4" B. O.
"F" TRACK
SCALE: 3/8" = 1"



8 REVERSED "F" ANGLE
TRACK SCALE: 3/8" = 1"

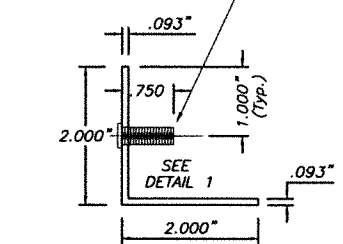


11 2" x 5" (Max.) x .125" ANGLE
SCALE: 3/8" = 1"



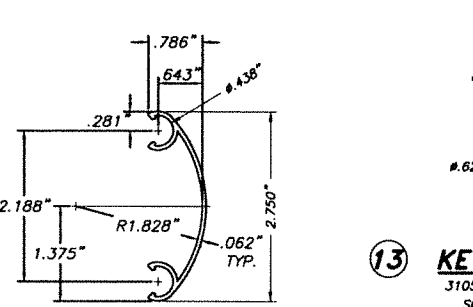
9 "F" TRACK ANGLE
SCALE: 3/8" = 1"

1/4" # 304 SERIES
S. S. STUD RIVETED TO
ANGLE @ SPACINGS
SHOWN ON SECTIONS.



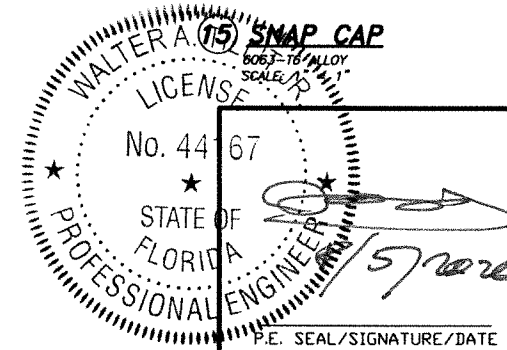
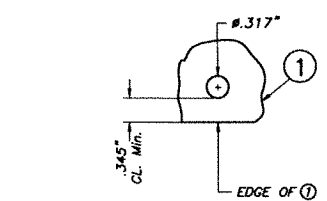
10 STUDDED ANGLE
6063-T5 ALUM. ALLOY
SCALE: 3/8" = 1"

OPTION 1 OPTION 2
12 KEY HOLE AT PANEL

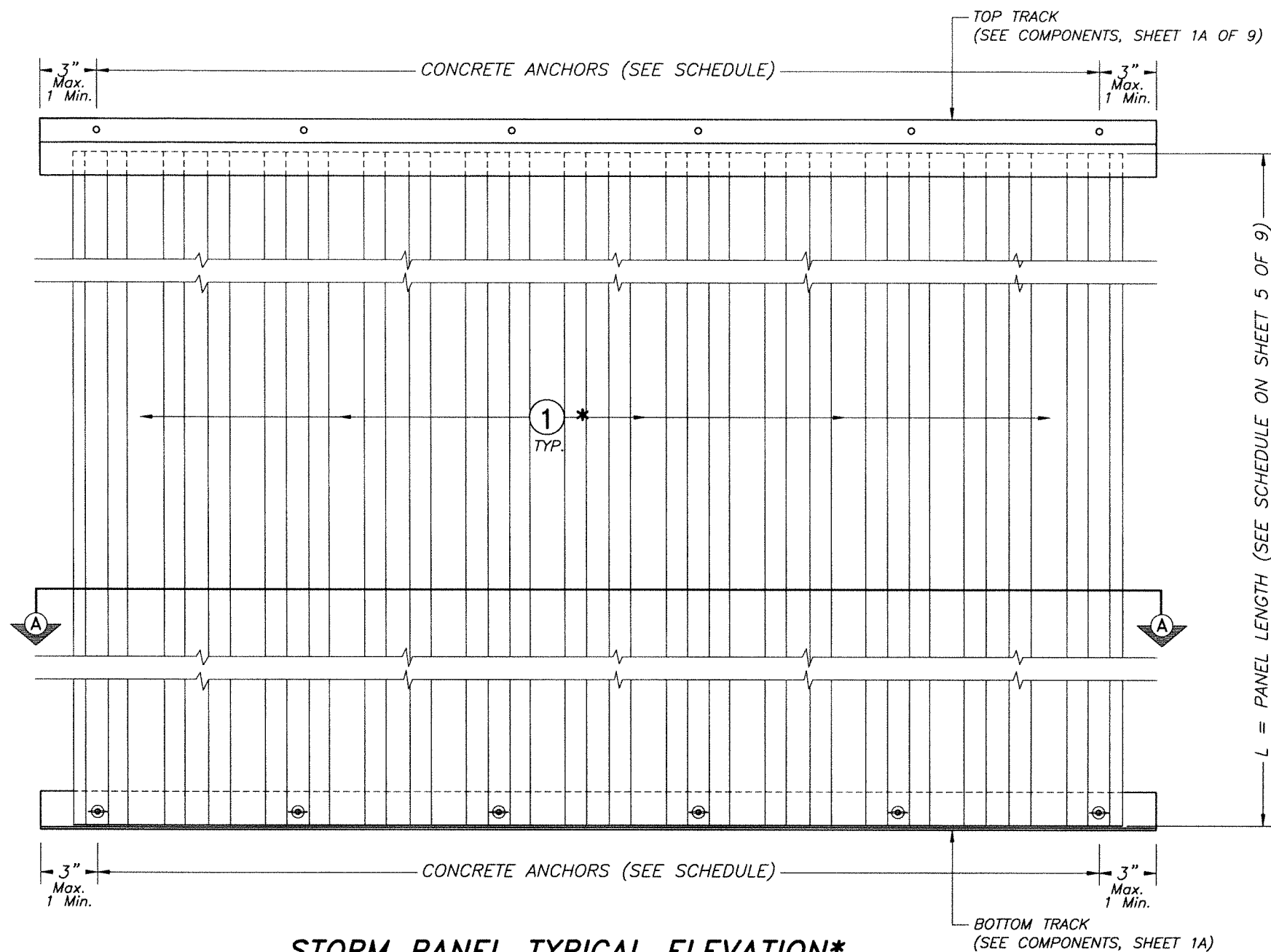


13 KEY HOLE WASHER
3105-H154 ALUM. ALLOY
SCALE: 3/8" = 1"

12A ROUND HOLE AT PANEL
(OPTION TO 12)

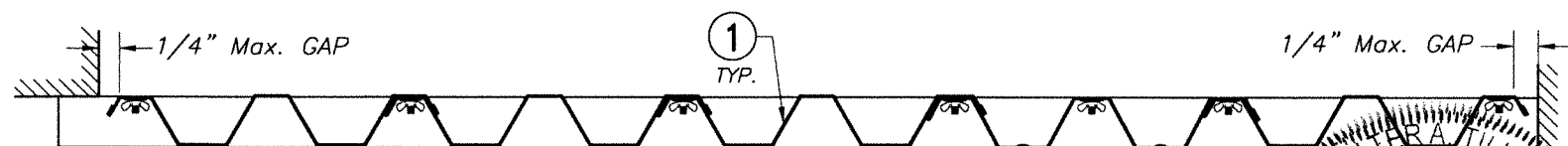


FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
© 2026 TILTECO, INC.			0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)		
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 CA-0006719 WALTER A. TILLIT JR. P.E. FLORIDA Lic. # 44167			EASTERN METAL SUPPLY, INC 4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)209-8263 FAX: (561)841-1716		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-166	7/23/26	3		
2			4		
					W.H. DRAWN BY: 7/23/2026 DATE: 26-228 DRAWING No SHEET 1A OF 14



STORM PANEL TYPICAL ELEVATION*

SCALE : 1/8" = 1"

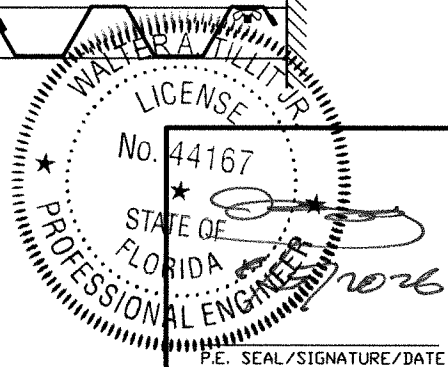


SECTION A-A

SCALE : 1/8" = 1"

* PANEL 1 MAY BE COMBINED W/ APPROVED 2 1/4" CLEAR STORM PANELS THROUGH THE OPENING BEING PROTECTED WITH NO LIMITATION FOR THEIR PARTICULAR ORDER OR INSTALLATION SEQUENCE, AS LONG AS THE FOLLOWING CONDITIONS COMPLIED WITH:

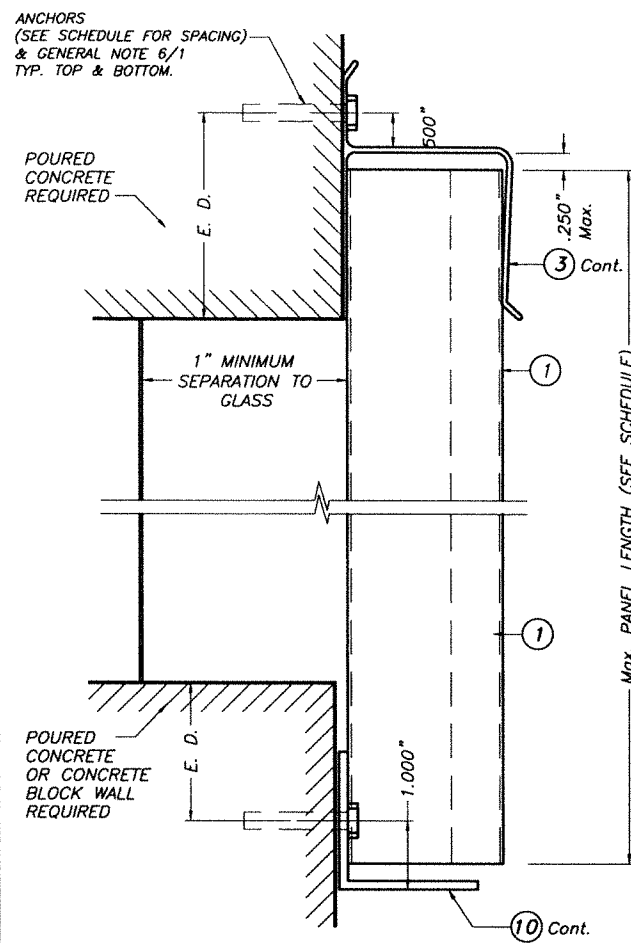
1. MAXIMUM PANEL LENGTH SHALL BE DETERMINED AS PER SCHEDULES INDICATED ON SHEET #4 OF 5 OF TILTECO Inc. DRAWING #26-229 (CLEAR BERTHA STORM PANEL). THIS MAXIMUM PANEL LENGTH SHALL APPLY FOR THE CORRESPONDING A.S.D DESIGN WIND LOAD FOR THE GIVEN OPENING, WHICH SHALL BE DETERMINED AS PER SECTION 1609 OF THE 2026 (9TH EDITION) OF THE FLORIDA BUILDING CODE.
2. INSTALLATION OF COMBINATION PANELS SHALL ONLY BE PERFORMED WITH THE APPROVED MOUNTINGS INDICATED ON SHEET #3 OF 5 OF DRAWING #26-229 (CLEAR BERTHA STORM PANEL). NO OTHER MOUNTING INSTALLATION WILL BE ALLOWED.
3. ANCHOR SPACING FOR FASTENERS USED FOR THE CONNECTION OF STORM PANELS MENTIONED ON ITEM #2 ABOVE SHALL BE AS PER SCHEDULE INDICATED ON SHEET #4 OF 5 OF DRAWING #26-229 (CLEAR BERTHA STORM PANEL)
4. END CLOSURE DETAILS SHALL BE AS INDICATED ON SHEET #4 OF 5 OF DRAWING #26-229 (CLEAR BERTHA STORM PANEL).



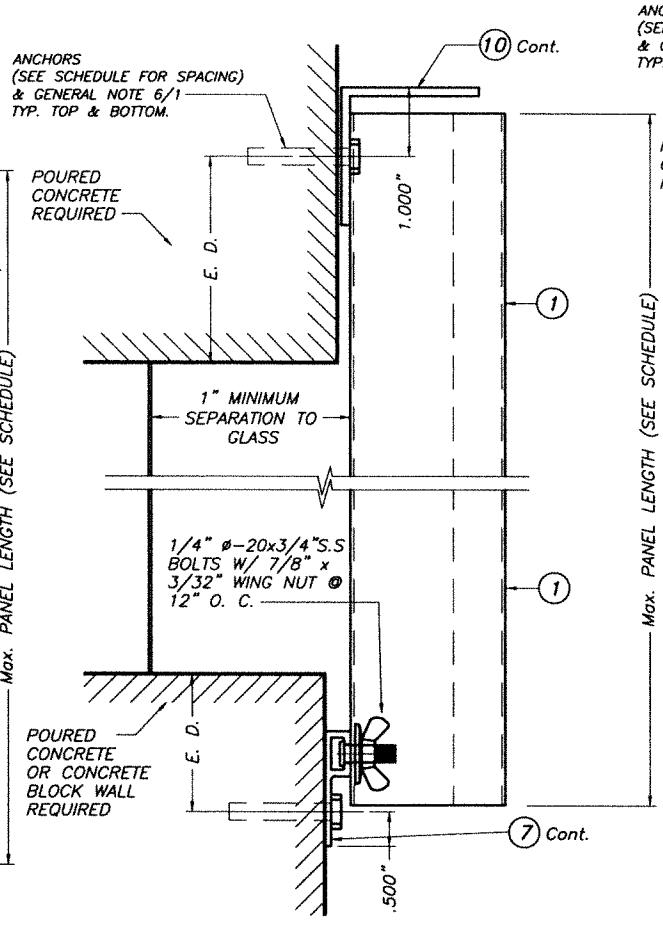
P.E. SEAL/SIGNATURE/DATE

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

© 2026 TILTECO, INC.		0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)		W.H. DRAWN BY:	
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-166	7/23/26	3		
2			4		
				26-228 DRAWING No	
				SHEET 2 OF 14	

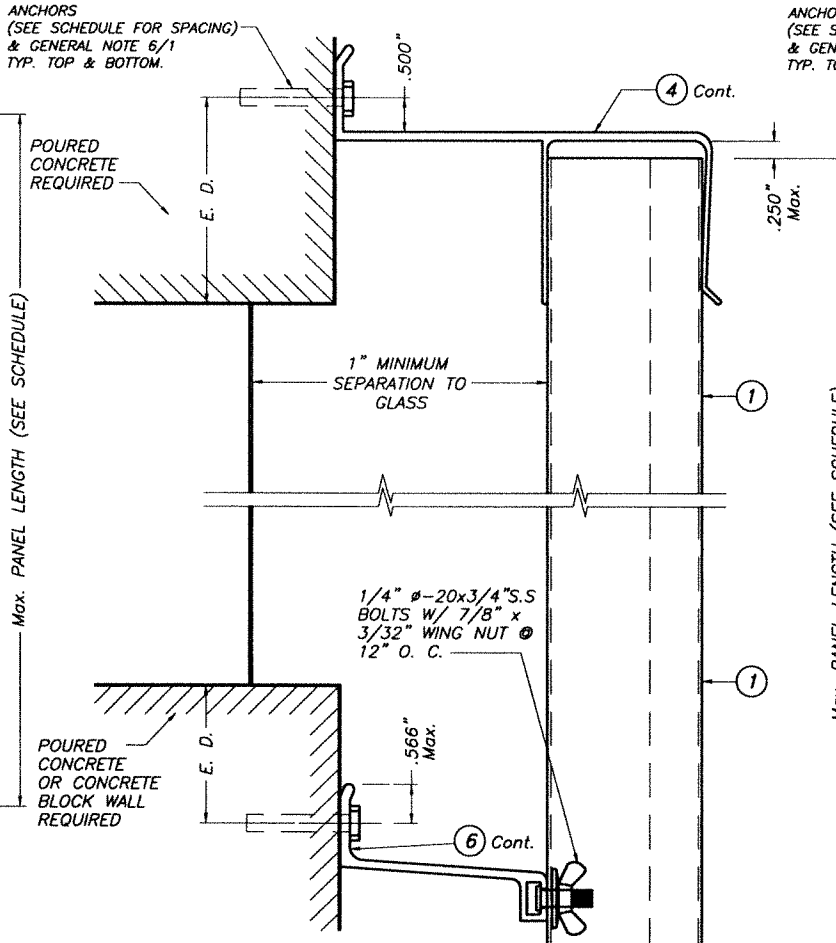


SECTION 1 ANCHOR



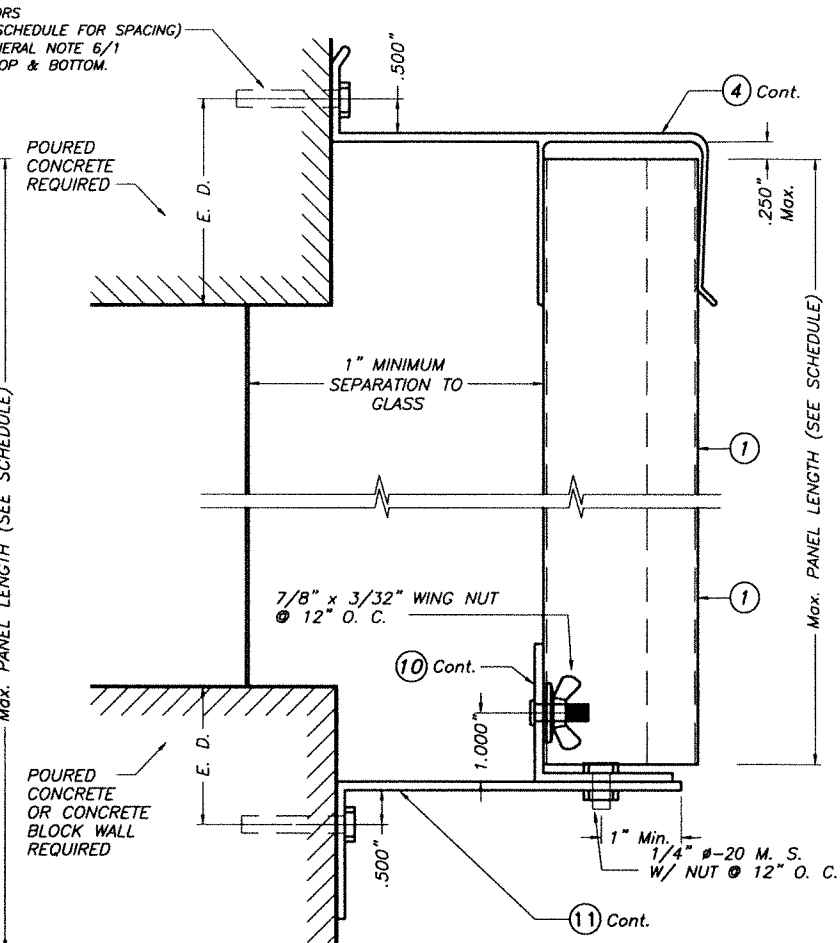
WALL MOUNTING INSTALLATION
SECTION 2

SCALE : 3/8" = 1"



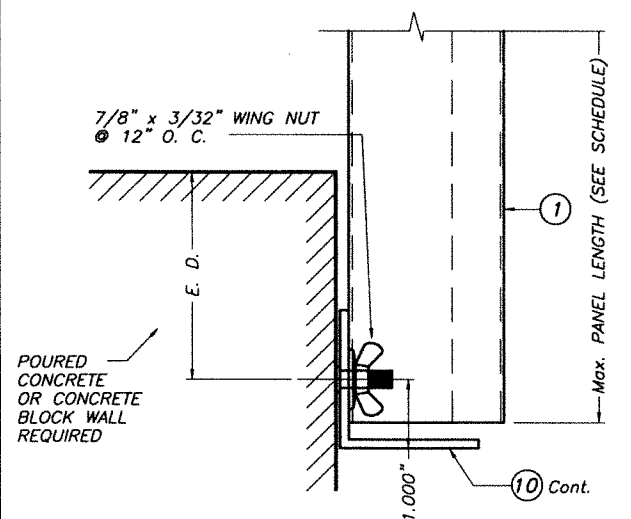
BUILD OUT INSTALLATION
SECTION 3

SCALE : 3/8" = 1"

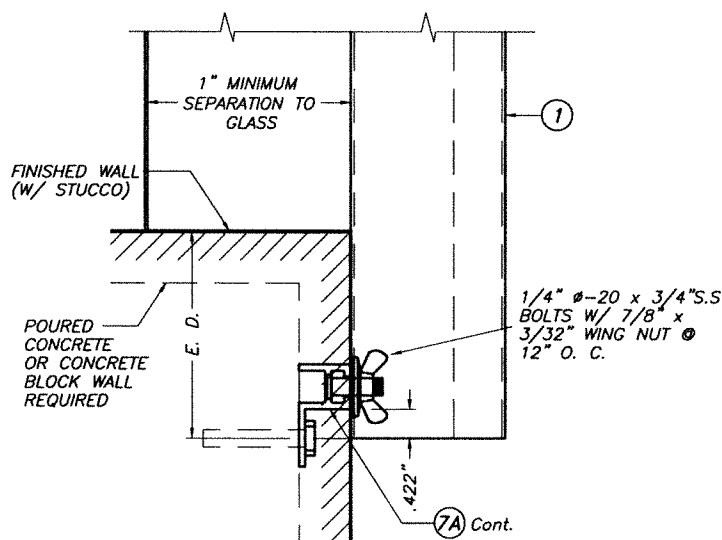


BUILD OUT INSTALLATION
SECTION 4

SCALE : 3/8" = 1"



SECTION 1 STUD

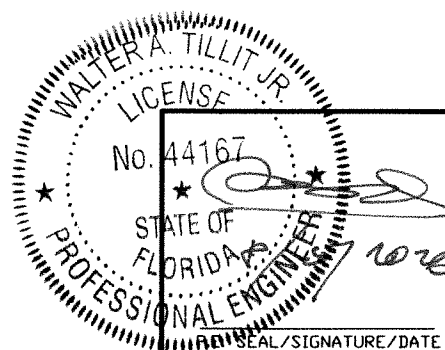


WALL MOUNTING INSTALLATION
SECTION 2A

SCALE : 3/8" = 1"

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEETS 6 & 7)

NOTE FOR COMBINATION OF SECTIONS :
WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE
COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

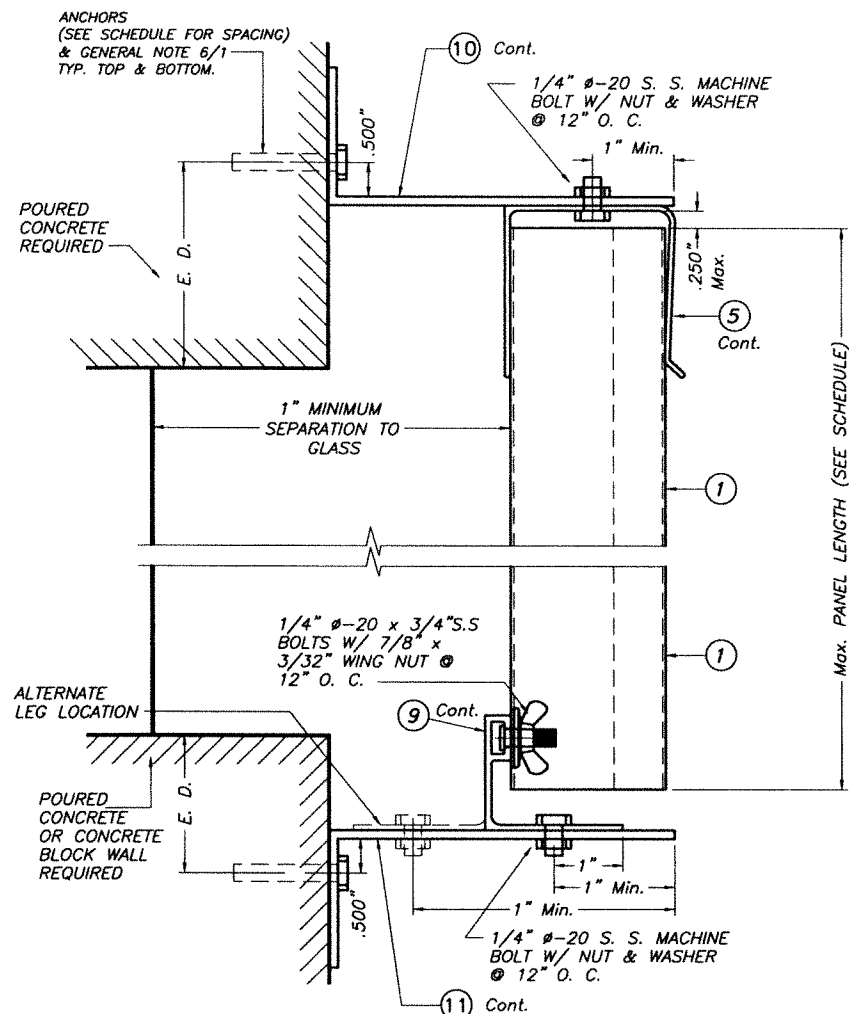


FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
© 2026 TILTECO, INC.			0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)		
TILTECO INC.			EASTERN METAL SUPPLY, INC		
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 Fax : (305)871-1531			4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (561)209-8263 FAX: (561)841-1716		
CA-0006719 WALTER A. TILLIT JR. P.E. FLORIDA Lic. # 44167			W.H. DRAWN BY: 7/23/2026 DATE: 26-228 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-166	7/23/26	3		
2			4		

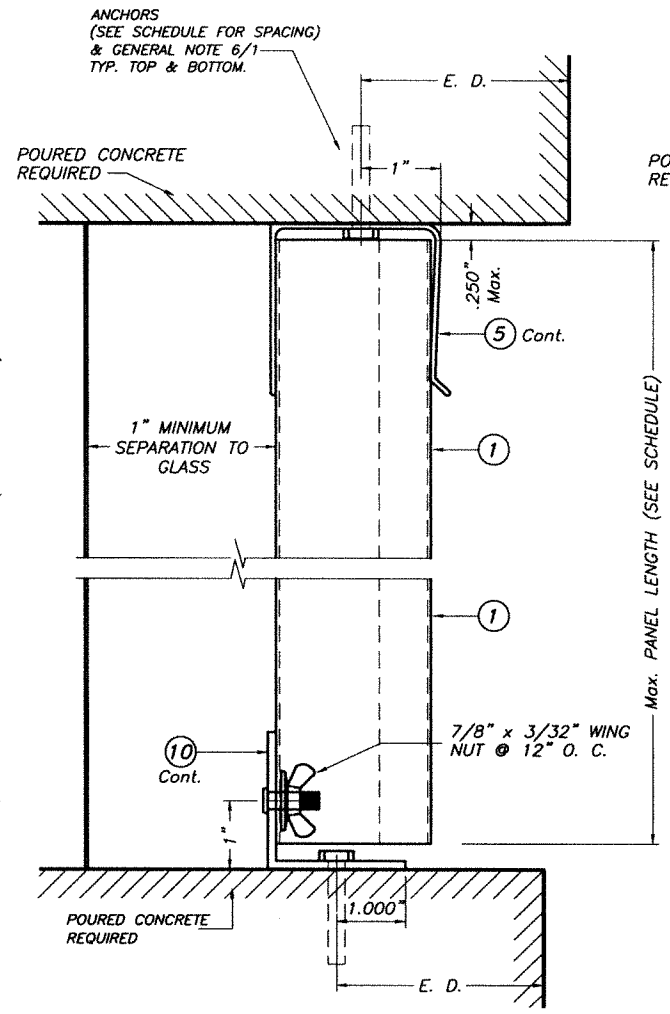
WALL MOUNTING INSTALLATION
SECTION 1

SCALE : 3/8" = 1"

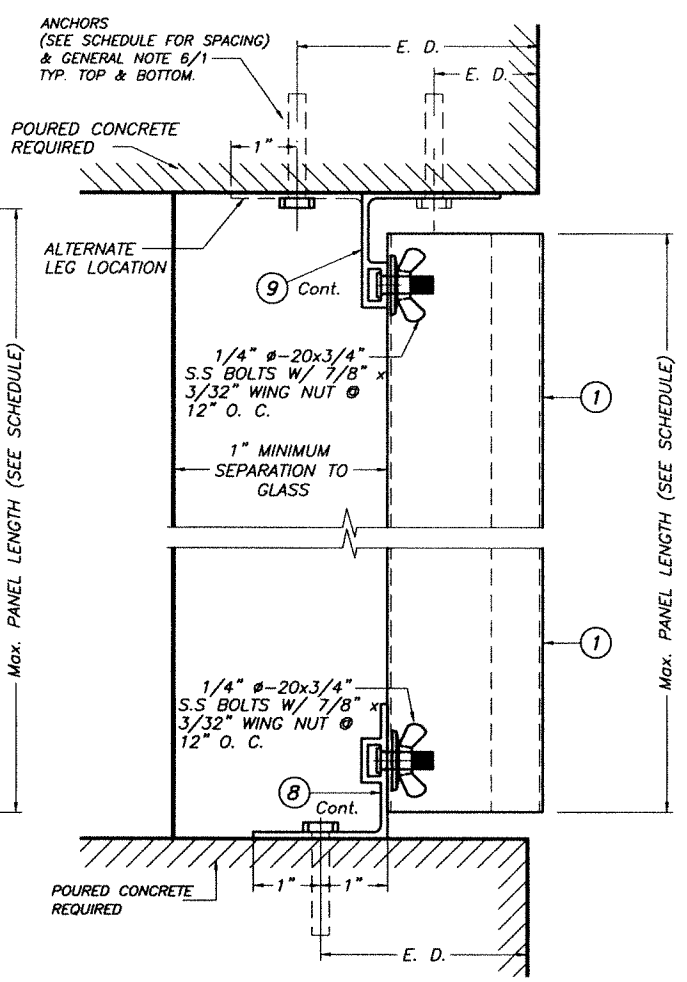
NOTE : DETAIL OF SECTION 1 STUD VALID ALSO FOR
WALL MOUNTING INSTALLATION - SECTION 2 (TOP)



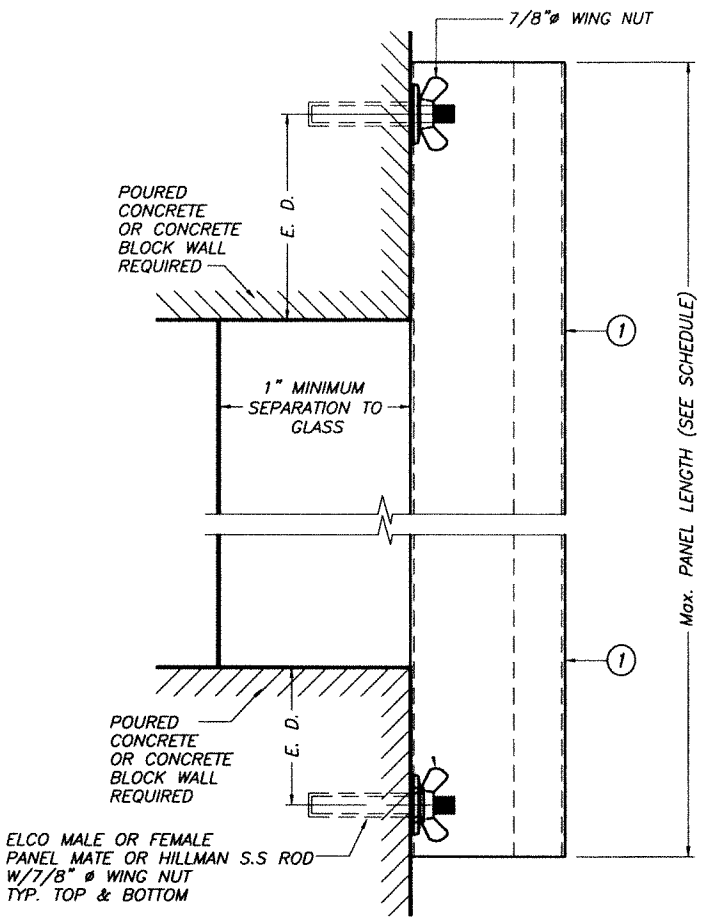
BUILD OUT INSTALLATION
- SECTION 5 SCALE : 3/8" = 1"



CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 6
 SCALE : 3/8" = 1"



CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 7
 SCALE : 3/8" = 1"

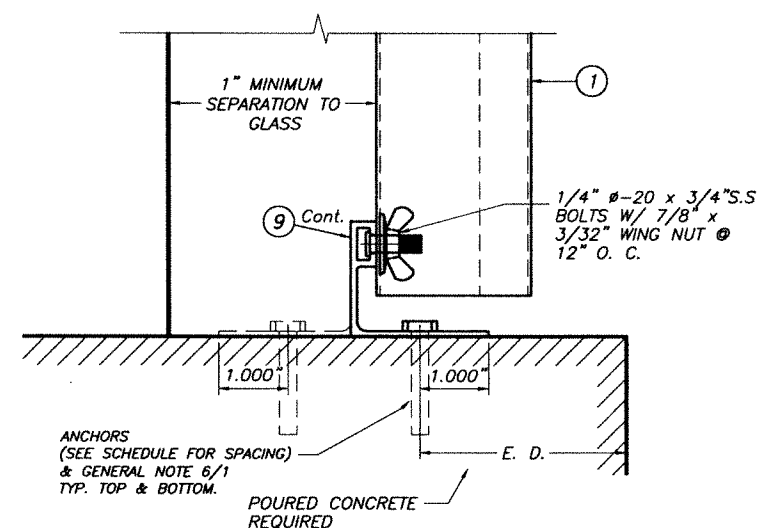


WALL MOUNTING INSTALLATION (D. M.)
- SECTION 8
 SCALE : 3/8" = 1"

* SCREWS USED AT ANCHORS MAY BE 1/4"Ø-20 S.S. SIDE WALK BOLT W/ 12 OR 1/4"Ø-20 S.S. TRUSS HEAD BOLT W/ 12 & 13.

* SIDE WALK BOLTS ARE 3/4"Øx3/32"THICK HEAD MACHINE S.S. SCREW W/ LENGTH AS PER NOTES A.2 & B.2 (SHEET 1).

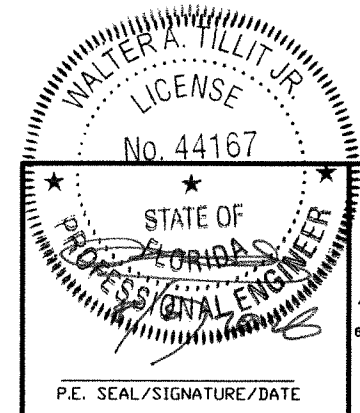
* TRUSS HEAD BOLTS ARE 1/2"Øx1/8" THICK S.S. HEAD MACHINE SCREW W/ LENGTH AS PER NOTES A.2 & B.2 (SHEET 1)



FLOOR MOUNTING INSTALLATION
- SECTION 5A SCALE : 3/8" = 1"

E. D. = EDGE DISTANCE
 (SEE SCHEDULE ON SHEET 6 & 7)

NOTE FOR COMBINATION OF SECTIONS :
 WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



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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

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)

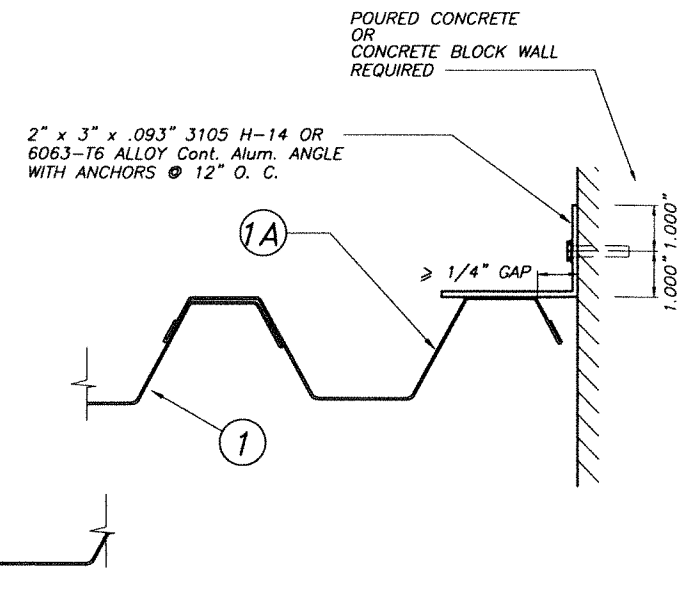
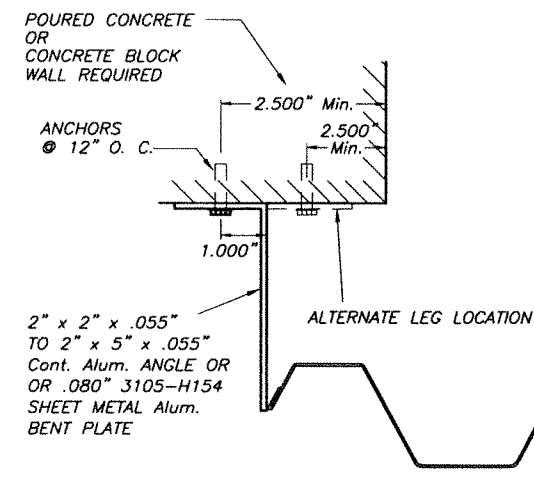
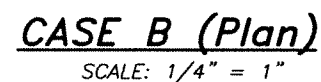
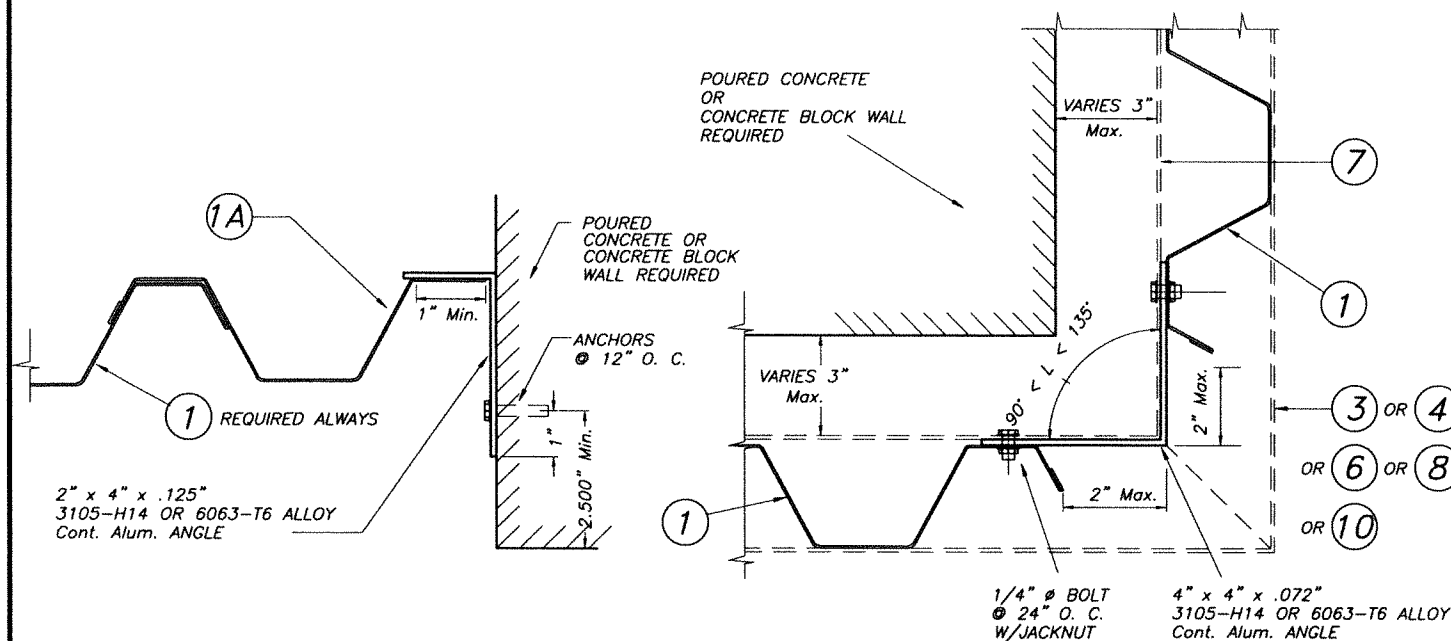
EASTERN METAL SUPPLY, INC
 4268 WEST ROADS DRIVE
 WEST PALM BEACH, FL. 33407
 PHONE: (561)209-8263
 FAX: (561)841-1716

W.H.
 DRAWN BY:

7/23/2026
 DATE:

26-228
 DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-166	7/23/26	3		
2			4		

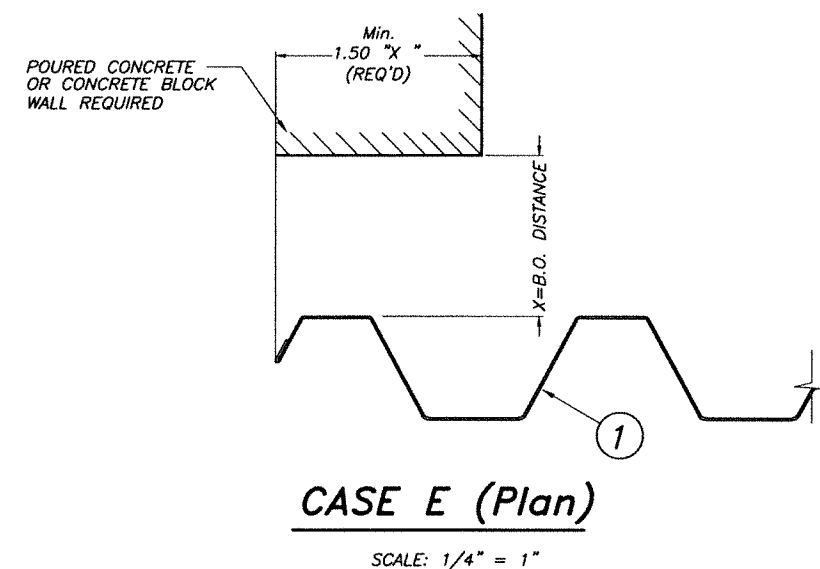
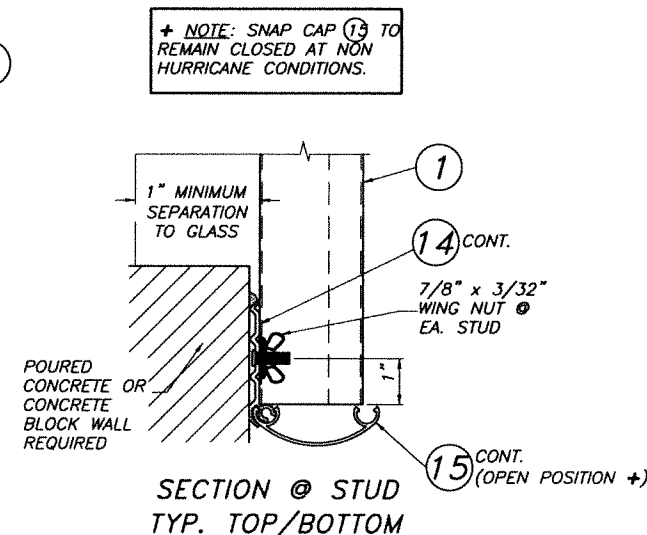
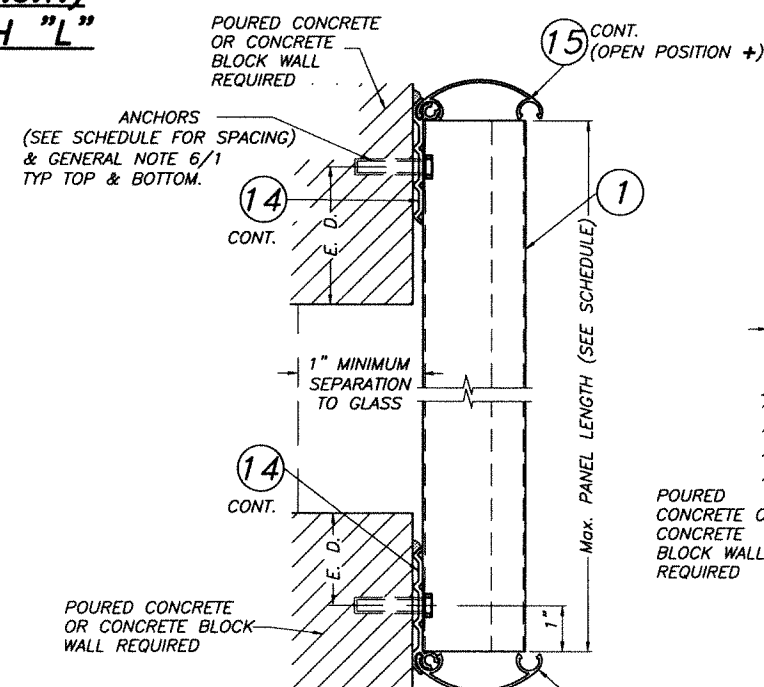


END CLOSURES DETAILS

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

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	Max. PANEL LENGTH L (ft.)		
	MOUNTING W/O "h" HEADER (3)	MOUNTING W/ "h" HEADER (3)	WALL MOUNTING W/ COMPONENT (14) & (15)
+30.0, -30.0	12'-11"	12'-11"	12'-11"
+30.0, -35.0	12'-11"	12'-11"	12'-11"
+35.0, -40.0	12'-0"	12'-0"	12'-0"
+40.0, -45.0	11'-2"	11'-2"	11'-2"
+45.0, -50.0	10'-7"	10'-4"	10'-7"
+50.0, -55.0	10'-0"	9'-4"	10'-0"
+55.0, -60.0	9'-7"	8'-6"	9'-7"
+60.0, -65.0	9'-2"	7'-9"	9'-2"
+65.0, -70.0	8'-9"	7'-2"	8'-9"
+70.0, -75.0	8'-6"	6'-8"	8'-6"
+75.0, -80.0	8'-2"	6'-3"	8'-2"

NOTE: MINIMUM PANEL LENGTH IS 3'-0".



WALL MOUNTING INSTALLATION

SECTION 9

SCALE : $3/8" = 1"$

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)

EASTERN METAL SUPPLY, INC
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)209-8263
FAX: (561)841-1716

W.H.
DRAWN BY:

DATE: 1/23/2026

26-228

ET 5 OF 14

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Phone : (305)871-1530 . Fax : (305)871-1531

CA-0006719

WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

[illegible][illegible][illegible]

OLD 23-166

DATE	
------	--

7/23/

REV.

3

DESCRIPTION

DATE _____

[illegible]

THIS SCHEDULE INDICATES REQUIRED ANCHOR SPACING FOR A GIVEN A.S.D. DESIGN LOAD AND PANEL LENGTH. HOWEVER MAXIMUM PANEL LENGTH FOR A GIVEN A.S.D. DESIGN LOAD MUST BE VERIFIED AS PER SCHEDULE ON SHEET 4.

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

E. D. = EDGE DISTANCE

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.)
	TAPCONS OR ULTRACONS		RED HD. DYNABOLT		PANELMATES OR HILLMAN S.S. ROD		CF TAP-GRIP			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		
+35.0, -40.0 OR LESS	12"	-	12"	-	12"	-	12"	-	1 (TOP)	8'-0" OR LESS
	12"	10"	12"	12"	12"	12"	12"	10 1/2"	1, 9 ⁺ (BOTTOM)	
	12"	-	12"	-	12"	-	12"	-	2, 9 ⁺ (TOP)	
	12"	10"	12"	12"	12"	12"	12"	10 1/2"	2 (BOTTOM)	
	12"	10"	12"	12"	12"	12"	12"	10 1/2"	2A (BOTTOM)	
	12"	-	12"	-	12"	-	12"	-	3 & 4 (TOP)	
	12"	10"	12"	12"	12"	12"	12"	10 1/2"	3 (BOTTOM)	
	12"	10"	12"	12"	12"	12"	12"	10 1/2"	4 (BOTTOM)	
	12"	-	12"	-	12"	-	12"	-	5 (TOP)	
	12"	10"	12"	12"	12"	12"	12"	10 1/2"	5 (BOTTOM)	
	12"	-	-	-	12"	-	-	-	6 (TOP)	
	12"	-	-	-	12"	-	-	-	6 (BOTTOM)	
	11"	-	-	-	12"	-	-	-	5A (BOTTOM) 7 (TOP)	
	11"	-	-	-	12"	-	-	-	7 (BOTTOM)	
	-	-	-	-	12"	12"	-	-	8 (TOP/BOTTOM)	
+35.0, -40.0 OR LESS	12"	-	12"	-	12"	-	12"	-	1 (TOP)	>8'-0" TO 10'-0"
	12"	8"	12"	12"	12"	12"	12"	8 1/2"	1, 9 ⁺ (BOTTOM)	
	12"	-	12"	12"	12"	-	12"	-	2, 9 ⁺ (TOP)	
	12"	8"	12"	12"	12"	12"	12"	8 1/2"	2 (BOTTOM)	
	12"	8"	12"	12"	12"	12"	12"	8 1/2"	2A (BOTTOM)	
	12"	-	12"	-	12"	-	12"	-	3 & 4 (TOP)	
	12"	8"	12"	12"	12"	12"	12"	8 1/2"	3 (BOTTOM)	
	12"	8"	12"	12"	12"	12"	12"	8 1/2"	4 (BOTTOM)	
	12"	-	12"	-	12"	-	12"	-	5 (TOP)	
	12"	8"	12"	12"	12"	12"	12"	8 1/2"	5 (BOTTOM)	
	12"	-	-	-	12"	-	-	-	6 (TOP)	
	10"	-	-	-	12"	-	-	-	6 (BOTTOM)	
	9"	-	-	-	12"	-	-	-	5A (BOTTOM) 7 (TOP)	
	9"	-	-	-	12"	-	-	-	7 (BOTTOM)	
	-	-	-	-	12"	12"	-	-	8 (TOP/BOTTOM)	

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.)
	TAPCONS OR ULTRACONS		RED HD. DYNABOLT		PANELMATES OR HILLMAN S.S. ROD		CF TAP-GRIP			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		
+35.0, -40.0 OR LESS	12"	-	12"	-	12"	-	10"	-	1 (TOP)	>10'-0" TO 12'-11"
	12"	6"	12"	12"	12"	12"	11 1/2"	6 1/2"	1, 9 ⁺ (BOTTOM)	
	12"	6"	11"	-	12"	-	11 1/2"	-	2, 9 ⁺ (TOP)	
	12"	6"	12"	12"	12"	12"	11 1/2"	6 1/2"	2 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	11 1/2"	6 1/2"	2A (BOTTOM)	
	12"	-	12"	-	12"	-	11 1/2"	-	3 & 4 (TOP)	
	12"	6"	12"	12"	12"	12"	11 1/2"	6 1/2"	3 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	11 1/2"	6 1/2"	4 (BOTTOM)	
	12"	-	12"	-	12"	-	11 1/2"	-	5 (TOP)	
	12"	6"	12"	12"	12"	12"	11 1/2"	6 1/2"	5 (BOTTOM)	
	10"	-	-	-	12"	-	-	-	6 (TOP)	
	8"	-	-	-	11"	-	-	-	6 (BOTTOM)	
	7"	-	-	-	9 1/2"	-	-	-	5A (BOTTOM) 7 (TOP)	
	7"	-	-	-	10"	-	-	-	7 (BOTTOM)	
	-	-	-	-	12"	12"	-	-	8 (TOP/BOTTOM)	

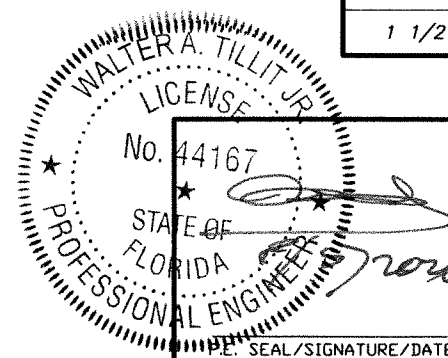
+ ONLY TAPCON ANCHORS OR ULTRACONS ALLOWED FOR MOUNTING SECTION 9.

* SEE SHEET 8 & 9 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 SPACINGS SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. (Min. E. D. FOR ELCO PANELMATE IS 2 1/2").

ACTUAL E. D.	FACTOR		
	TAPCON OR ULTRACONS	DYNABOLT / PANELMATES	CF TAP-GRIP
3"	-	.86	1.00
2 1/2"	-	.71	.80
2"	-	.50	-
1 1/2"	.35	-	-

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)



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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-166	7/23/26	3		
2			4		

W.H.
DRAWN BY:

7/23/2026
DATE:

26-228
DRAWING No

SHEET 6 OF 14

THIS SCHEDULE INDICATES REQUIRED ANCHOR SPACING FOR A GIVEN A.S.D. DESIGN LOAD AND PANEL LENGTH. HOWEVER MAXIMUM PANEL LENGTH FOR A GIVEN A.S.D. DESIGN LOAD MUST BE VERIFIED AS PER SCHEDULE ON SHEET 4.

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

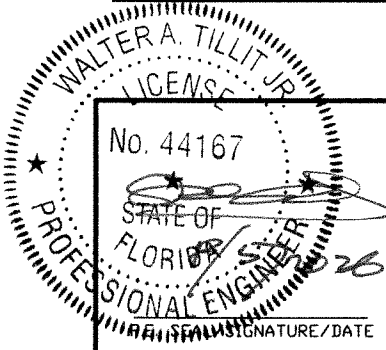
E. D. = EDGE DISTANCE

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.)
	TAPCONS OR ULTRACONS		RED HD. DYNABOLT		PANELMATES OR HILLMAN S.S. ROD		CF TAP-GRIP			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		
>+35.0, -40.0 TO +55.0, -60.0	12"	-	12"	-	12"	-	12"	-	1 (TOP)	8'-0" OR LESS
	12"	6"	12"	12"	12"	12"	12"	7"	1, 9 ⁺ (BOTTOM)	
	12"	-	12"	-	12"	-	12"	-	2, 9 ⁺ (TOP)	
	12"	6"	12"	12"	12"	12"	12"	7"	2 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	7"	2A (BOTTOM)	
	12"	-	12"	-	12"	-	12"	-	3 & 4 (TOP)	
	12"	6"	12"	12"	12"	12"	12"	7"	3 (BOTTOM)	
	12"	6"	12"	12"	12"	12"	12"	7"	4 (BOTTOM)	
	12"	-	12"	-	12"	-	12"	-	5 (TOP)	
	12"	6"	12"	12"	12"	12"	12"	7"	5 (BOTTOM)	
	10"	-	-	-	12"	-	-	-	6 (TOP)	
	8"	-	-	-	12"	-	-	-	6 (BOTTOM)	
	7"	-	-	-	10 1/2"	-	-	-	5A (BOTTOM) 7 (TOP)	
	8"	-	-	-	11"	-	-	-	7 (BOTTOM)	
	-	-	-	-	12"	12"	-	-	8 (TOP/BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0	6"	-	5"	-	9 1/2"	-	4"	-	1 (TOP)	>8'-0" TO 12'-0"
	11"	4"	9"	8"	12"	8"	7 1/2"	4"	1, 9 ⁺ (BOTTOM)	
	12"	-	9"	-	12"	-	7 1/2"	-	2, 9 ⁺ (TOP)	
	11"	4"	9"	8"	12"	8"	7 1/2"	4"	2 (BOTTOM)	
	11"	4"	9"	8"	12"	8"	7 1/2"	4"	2A (BOTTOM)	
	11"	-	9"	-	12"	-	7 1/2"	-	3 & 4 (TOP)	
	11"	4"	9"	8"	12"	8"	7 1/2"	4"	3 (BOTTOM)	
	11"	4"	9"	8"	12"	8"	7 1/2"	4"	4 (BOTTOM)	
	11"	-	9"	-	12"	-	7 1/2"	-	5 (TOP)	
	11"	4"	9"	8"	12"	8"	7 1/2"	4"	5 (BOTTOM)	
	6"	-	-	-	8 1/2"	-	-	-	6 (TOP)	
	5"	-	-	-	7"	-	-	-	6 (BOTTOM)	
	4"	-	-	-	6 1/2"	-	-	-	5A (BOTTOM) 7 (TOP)	
	5"	-	-	-	6 1/2"	-	-	-	7 (BOTTOM)	
	-	-	-	-	12"	6"	-	-	8 (TOP/BOTTOM)	

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.)
	TAPCONS OR ULTRACONS		RED HD. DYNABOLT		PANELMATES OR HILLMAN S.S. ROD		CF TAP-GRIP			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		
>+55.0, -60.0 TO +75.0, -80.0	8"	-	7"	-	12"	-	6"	-	1 (TOP)	8'-0" OR LESS
	12"	5"	11"	10"	12"	9 1/2"	9"	5"	1, 9 ⁺ (BOTTOM)	
	12"	-	9"	-	12"	-	9"	-	2, 9 ⁺ (TOP)	
	12"	5"	11"	10"	12"	9 1/2"	9"	5"	2 (BOTTOM)	
	12"	5"	11"	10"	12"	9 1/2"	9"	5"	2A (BOTTOM)	
	12"	-	11"	-	12"	-	9"	-	3 & 4 (TOP)	
	12"	5"	11"	10"	12"	9 1/2"	9"	5"	3 (BOTTOM)	
	12"	5"	11"	10"	12"	9 1/2"	9"	5"	4 (BOTTOM)	
	12"	-	11"	-	12"	-	9"	-	5 (TOP)	
	12"	5"	11"	10"	12"	9 1/2"	9"	5"	5 (BOTTOM)	
	8"	-	-	-	10 1/2"	-	-	-	6 (TOP)	
	6"	-	-	-	9"	-	-	-	6 (BOTTOM)	
	5"	-	-	-	7 1/2"	-	-	-	5A (BOTTOM) 7 (TOP)	
	6"	-	-	-	8"	-	-	-	7 (BOTTOM)	
	-	-	-	-	12"	6"	-	-	8 (TOP/BOTTOM)	
>+55.0, -60.0 TO +75.0, -80.0	5"	-	4"	-	8"	-	3"	3 1/2"	1 (TOP)	>8'-0" TO 9'-7"
	10"	3"	8"	7"	12"	7"	6 1/2"	-	1, 9 ⁺ (BOTTOM)	
	10"	-	7"	-	12"	-	6 1/2"	-	2, 9 ⁺ (TOP)	
	10"	3"	8"	7"	12"	7"	6 1/2"	3 1/2"	2 (BOTTOM)	
	10"	4"	8"	7"	12"	7"	6 1/2"	3 1/2"	2A (BOTTOM)	
	10"	-	8"	-	12"	-	6 1/2"	-	3 & 4 (TOP)	
	10"	3"	8"	7"	12"	7"	6 1/2"	3 1/2"	3 (BOTTOM)	
	10"	3"	8"	7"	12"	7"	6 1/2"	3 1/2"	4 (BOTTOM)	
	10"	-	8"	-	12"	-	6 1/2"	-	5 (TOP)	
	9"	3"	8"	7"	12"	6 1/2"	6 1/2"	3 1/2"	5 (BOTTOM)	
	6"	-	-	-	7 1/2"	-	-	-	6 (TOP)	
	5"	-	-	-	6 1/2"	-	-	-	6 (BOTTOM)	
	4"	-	-	-	5 1/2"	-	-	-	5A (BOTTOM) 7 (TOP)	
	4"	-	-	-	6"	-	-	-	7 (BOTTOM)	
	-	-	-	-	12"	6"	-	-	8 (TOP/BOTTOM)	

ACTUAL E. D.	FACTOR		
	TAPCON OR ULTRACONS	DYNABOLT / PANELMATES	CF TAP-GRIP
3"	-	.86	1.00
2 1/2"	-	.71	.80
2"	-	.50	-
1 1/2"	.35	-	-

- + ONLY TAPCON OR ULTRACONS ANCHORS ALLOWED FOR MOUNTING SECTION 9.
- * SEE SHEET 7 & 8 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 SPACINGS SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. (Min. E. D. FOR ELCO PANELMATE IS 2 1/2"). FOR THIS OPERATION TO BE MADE REDUCED SPACINGS RESULTING FROM APPLYING ABOVE FACTORS SHALL NOT RESULT ON SPACINGS LESS THAN 3" FOR ALL ANCHORS (EXCEPT +4.5" FOR RED HD. DYNABOLT ANCHORS).



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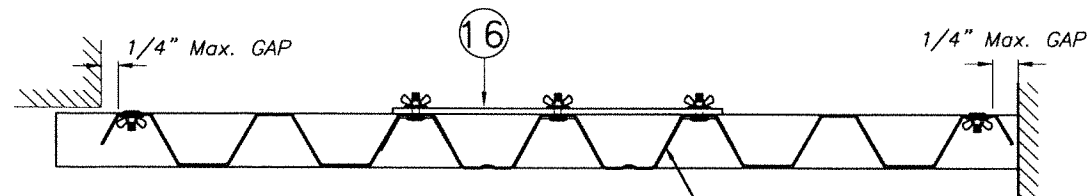
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7/23/2026
DATE:

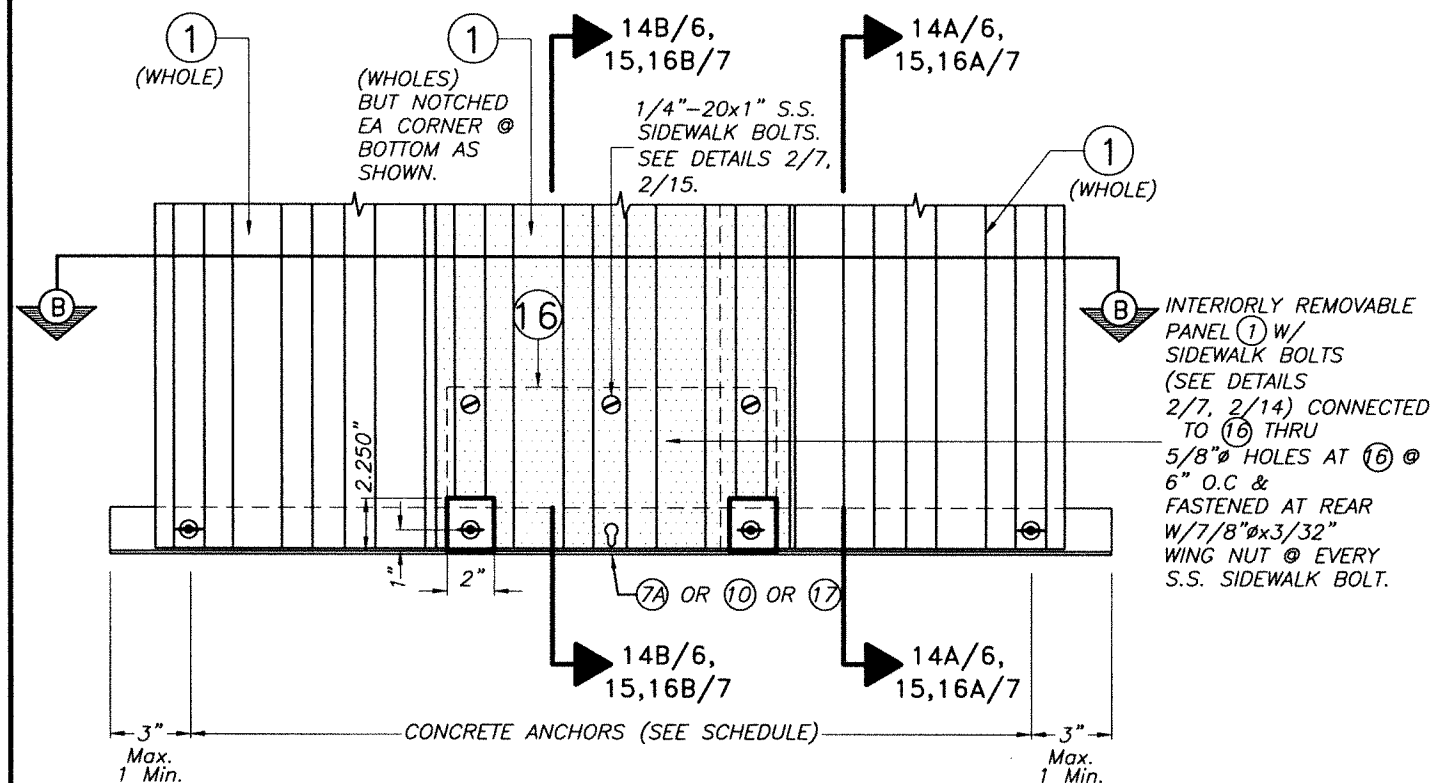
26-228
DRAWING No

SHEET 7 OF 14



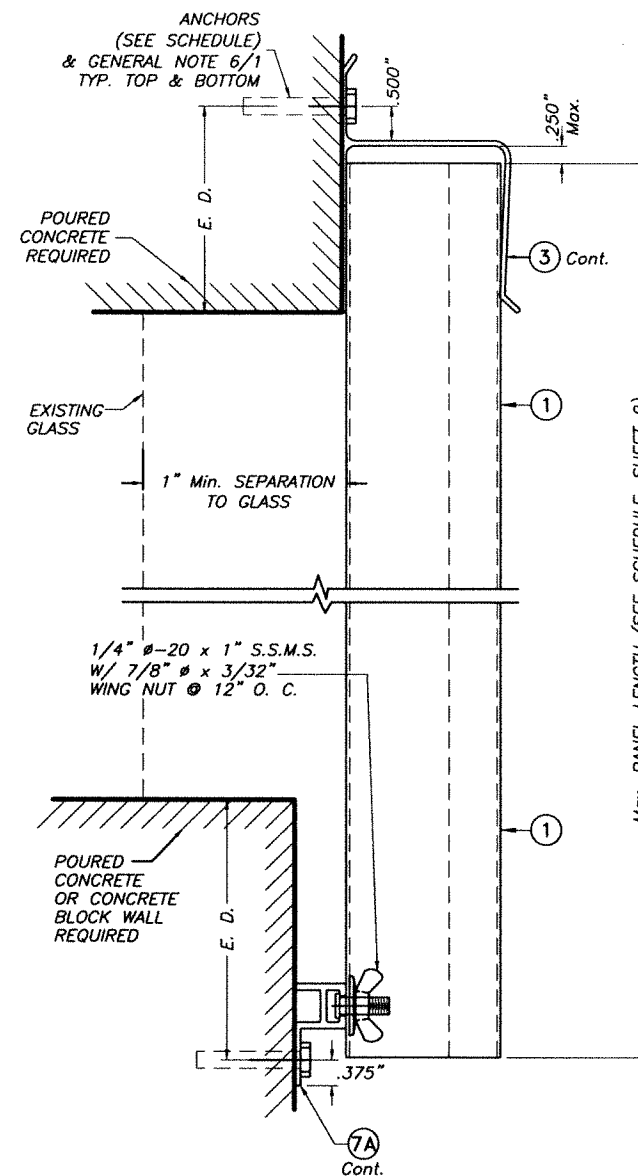
SECTION B-B

SCALE : 1/8" = 1"



INTERIORLY REMOVABLE STORM PANEL PARTIAL ELEVATION Y

SCALE : 1/8" = 1"

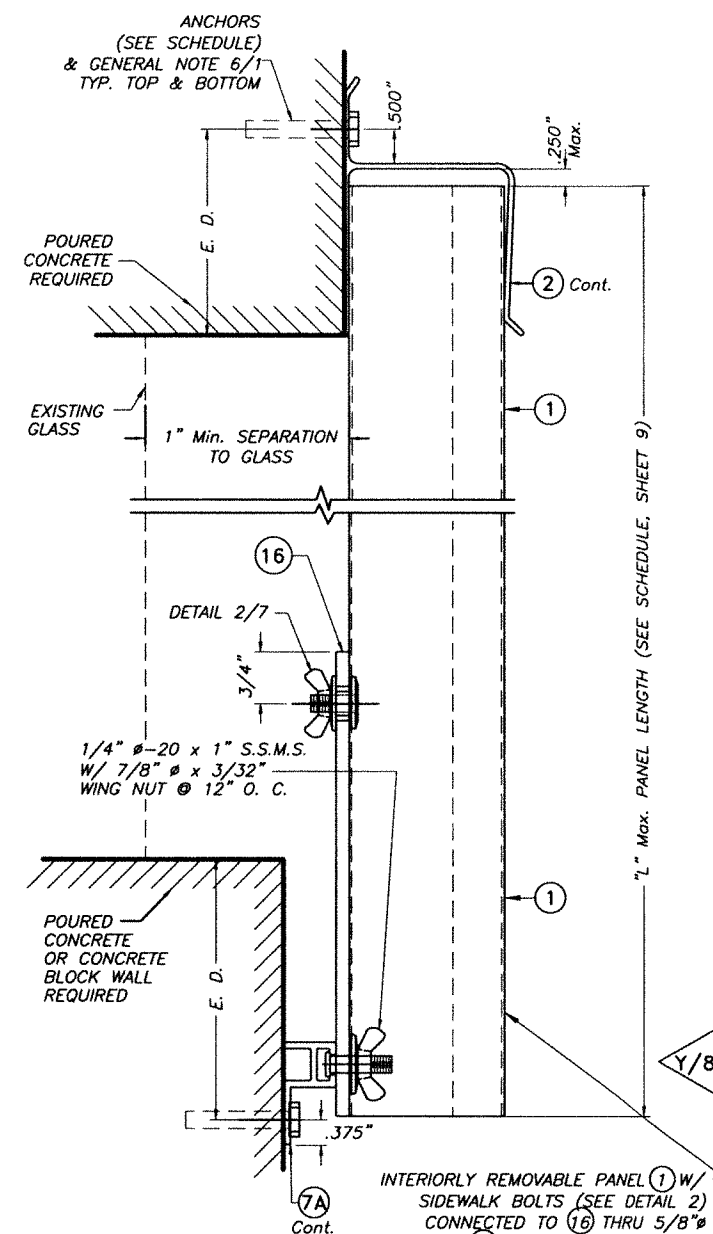


SECTION 10A

WALL MOUNTING INSTALLATIONS

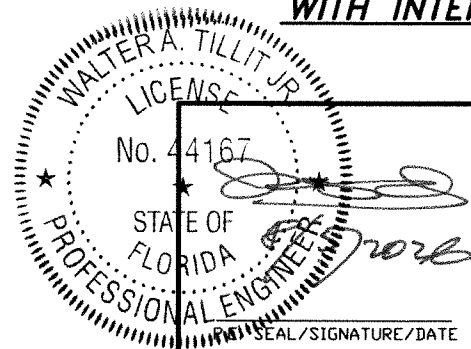
SECTIONS 10

SCALE : 3/8" = 1"



SECTION 10B

INSTALLATIONS VALID FOR PANELS 1 USED JOINTLY WITH INTERIORLY REMOVABLE PANELS 1



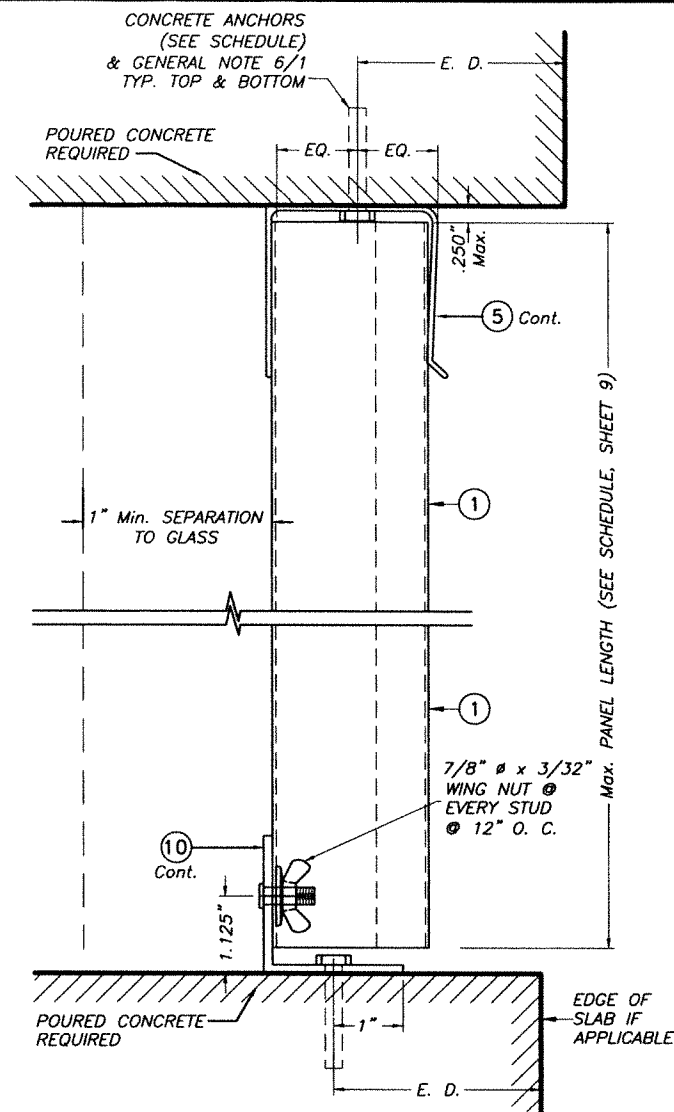
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TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)**
EASTERN METAL SUPPLY, INC
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)209-8263
FAX: (561)841-1716

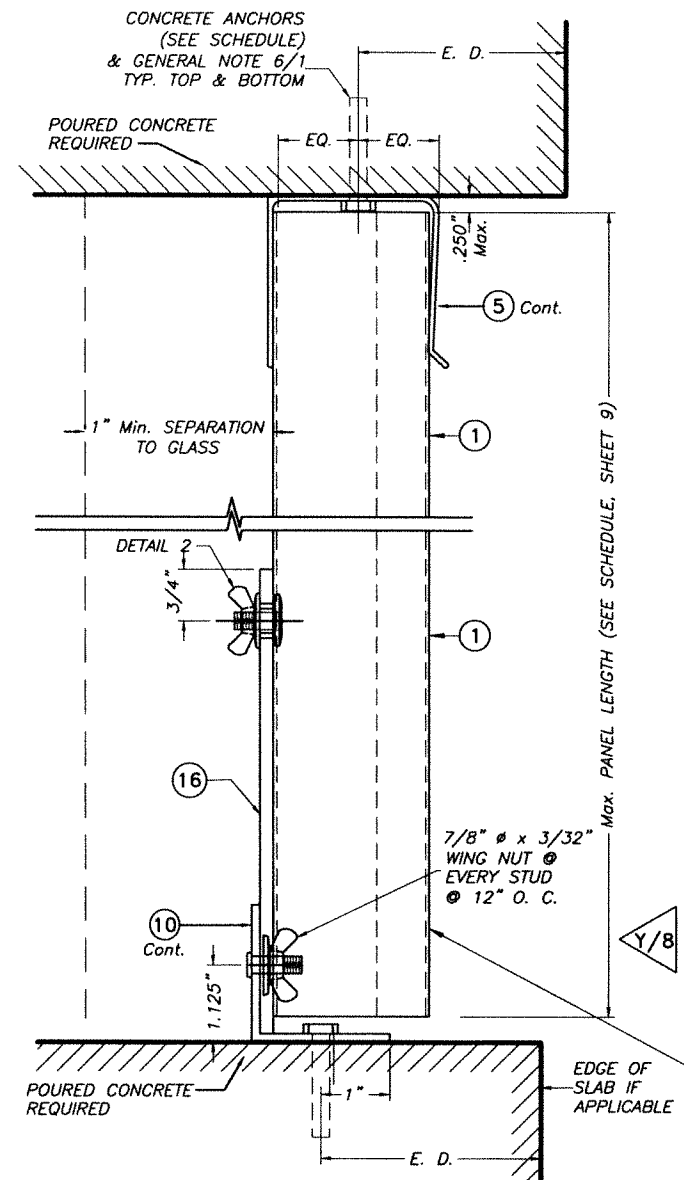
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-166	7/23/26	3		
2			4		

W.H.
DRAWN BY:
7/23/2026
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SHEET 8 OF 14



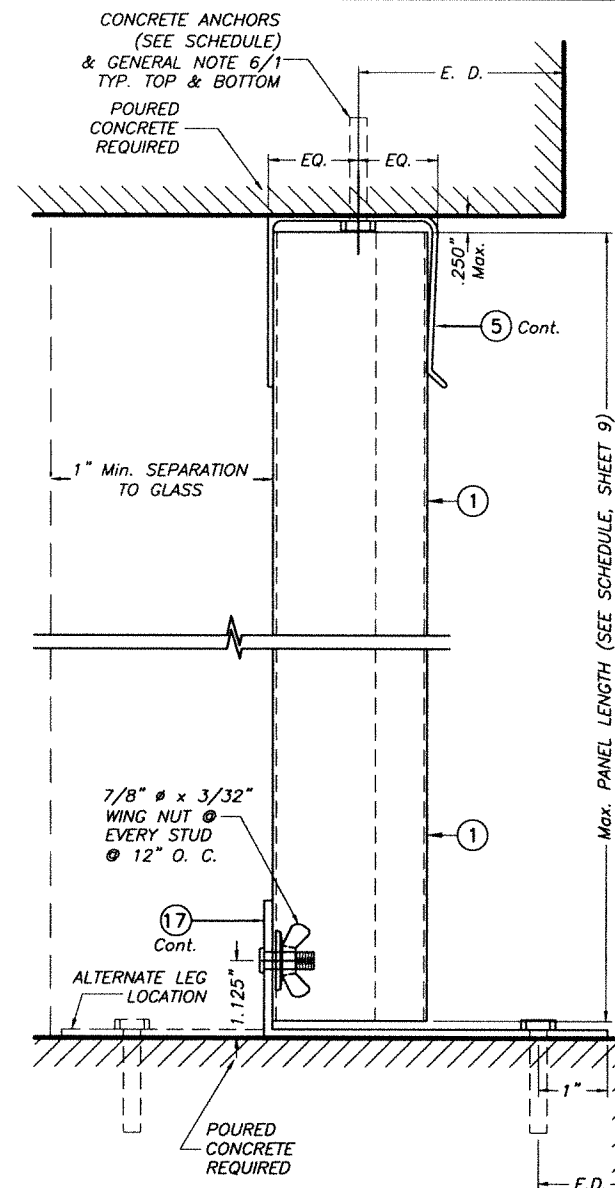
SECTION 11A
CEILING & FLOOR MOUNTING INSTALLATIONS

SECTIONS 11
SCALE : 3/8" = 1"



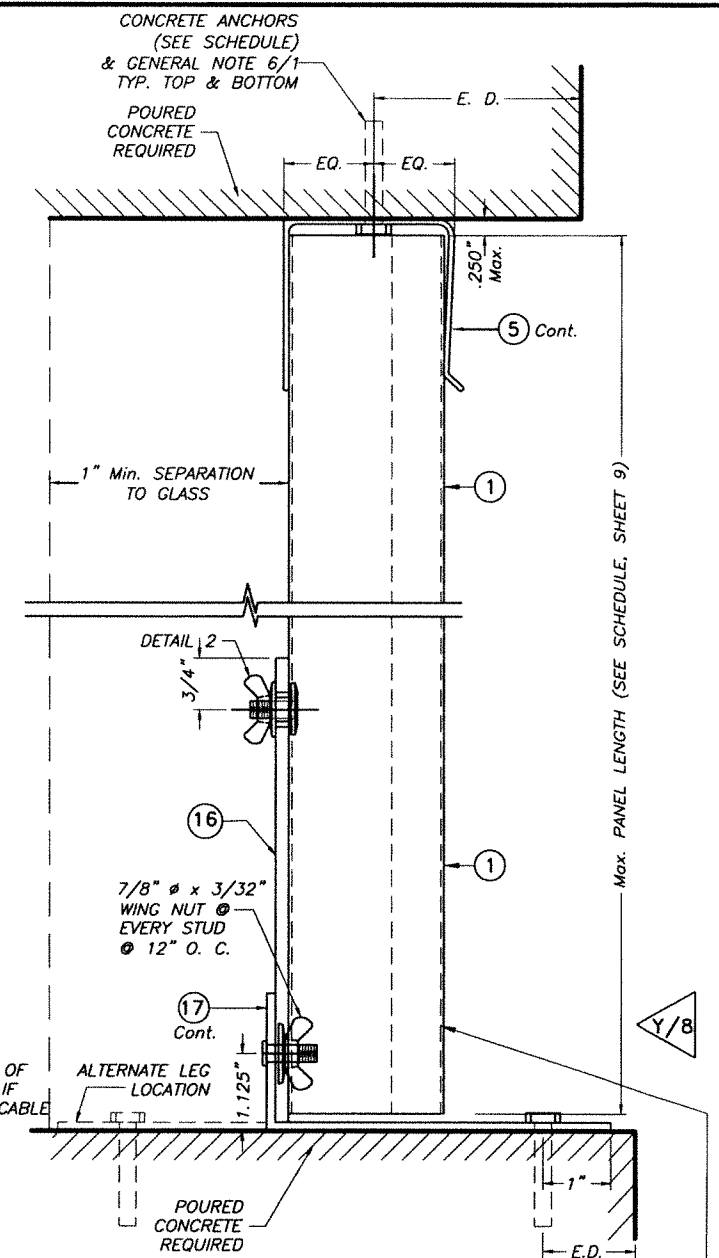
SECTION 11B

INTERIORLY REMOVABLE PANEL (1) W/
SIDEWALK BOLTS (SEE DETAIL 2)
CONNECTED TO (16) THRU 5/8\"/>



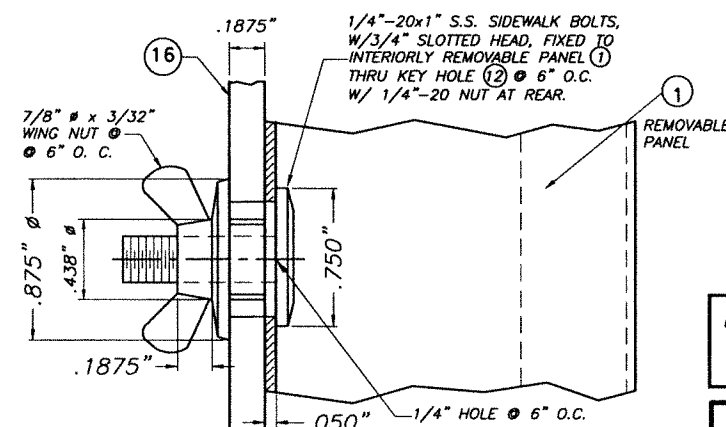
SECTION 12A

CEILING & FLOOR MOUNTING INSTALLATIONS
SECTIONS 12
SCALE : 3/8" = 1"



SECTION 12B

INTERIORLY REMOVABLE PANEL (1) W/
S.S. SIDEWALK BOLTS (SEE DETAIL 2)
CONNECTED TO (16) THRU 5/8\"/>



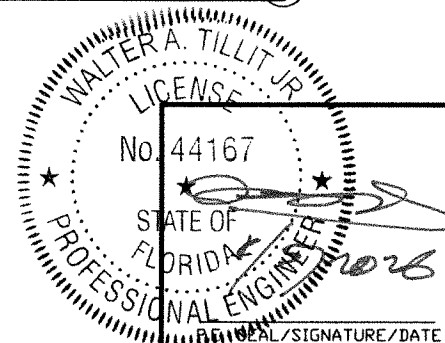
DETAIL 2 - INSTALLATION OF 1/4\"/>

SCALE: 1" = 1"

**INSTALLATIONS VALID FOR PANELS (1) USED JOINTLY
WITH INTERIORLY REMOVABLE PANELS (1)**

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEET 10 & 11)

NOTE FOR COMBINATION OF SECTIONS :
FLOOR/CEILING MOUNTING SECTIONS CAN BE
COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

**0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)**

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)209-8263
FAX: (561)841-1716

W.H.
DRAWN BY:

7/23/2026
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2			4		

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MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR INSTALLATIONS IN 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.)
	REGULAR TAPCONS OR ULTRATAPCONS		CRETE-FLEX SS*		CF TAP-GRIP		PANELMATES OR HILLMAN 1/2" S.S. ROD		PANELMATES OR HILLMAN 1/2" S.S. ROD		*10 S.S. TAPCON			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+63.5, -63.5	12"	N/A	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	10 (TOP)	9'-0" OR LESS
	12"	4"	12"	10"	N/A	N/A	12"	8	12"	7 1/2"	12"	6"	10A (BOTTOM)	
	12"	N/A	12"	7"	N/A	N/A	12"	6"	12"	5 1/2"	12"	4"	10B (BOTTOM)	
	11 1/2"	N/A	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	11 (TOP)	
	8 1/2"	N/A	12"	N/A	N/A	N/A	11 1/2"	N/A	11"	N/A	9 1/2"	N/A	11A (BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	3"	N/A	3"	N/A	3"	N/A	11B (BOTTOM)	
	11 1/2"	N/A	12"	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	12 (TOP)	
	8 1/2"	N/A	12"	N/A	N/A	N/A	11 1/2"	N/A	11"	N/A	9 1/2"	N/A	12A (BOTTOM)	
	3" **	N/A	N/A	N/A	N/A	N/A	4"	N/A	4"	N/A	4"	N/A	12B (BOTTOM)	

E. D. = *EDGE DISTANCE*

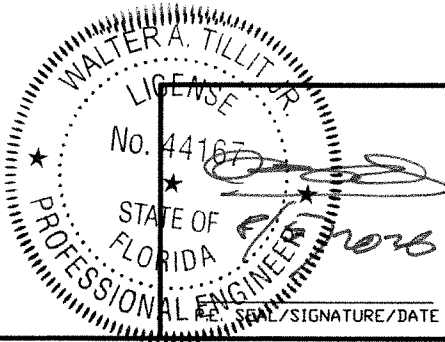
* MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE. FOR E. D. LESS THAN 3 1/2" REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED FOR EACH ANCHOR TYPE AT ANCHORS LEGEND.

ACTUAL E. D.	FACTOR		
	REGULAR TAPCON & 410 S.S. TAPCON OR ULTRACONS	CRETE-FLEX SS4 & PANELMATE OR PANELMATE PLUS.	CF TAP-GRIP
3"	—	.86	1.00
2 1/2"	—	.71	.80
2"	—	.50	—
1 1/2"	0.35	—	—

** LIMITED TO 5'-4" MAX. SPAN.

ANCHORS LEGEND

ANCHOR TYPE	Min. ANCHOR SPACING
410 S.S. TAPCON OR ULTRAICON+ OR ULTRAICON SS4 OR CF TAP-GRIP, PANELMATE OR PANELMATE PLUS.	3.0"
CRETE FLEX SS4	6.0"
REGULAR TAPCON IN BLOCK	4.0"
REGULAR TAPCON IN CONCRETE	3.0"



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CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

**0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)**

W.H.
DRAWN BY:

EASTERN METAL SUPPLY, INC
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)209-8263
FAX: (561)841-1716

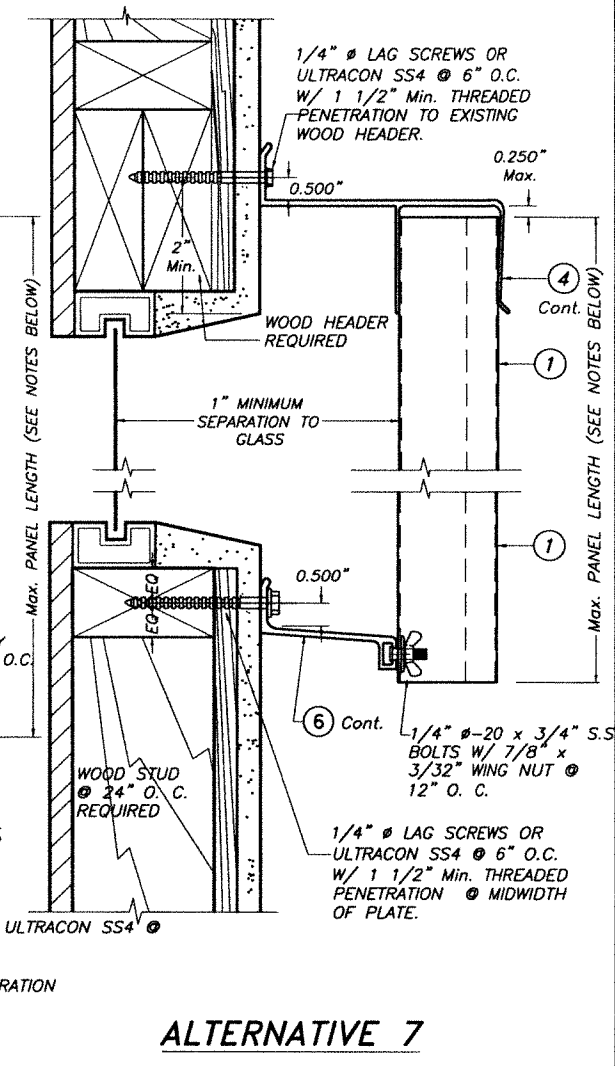
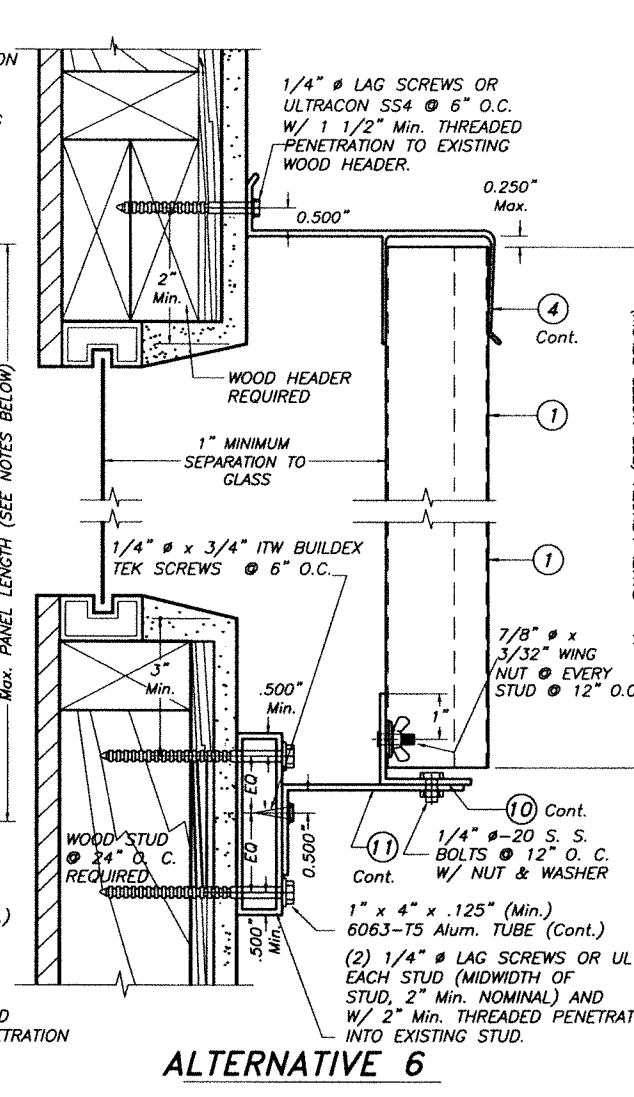
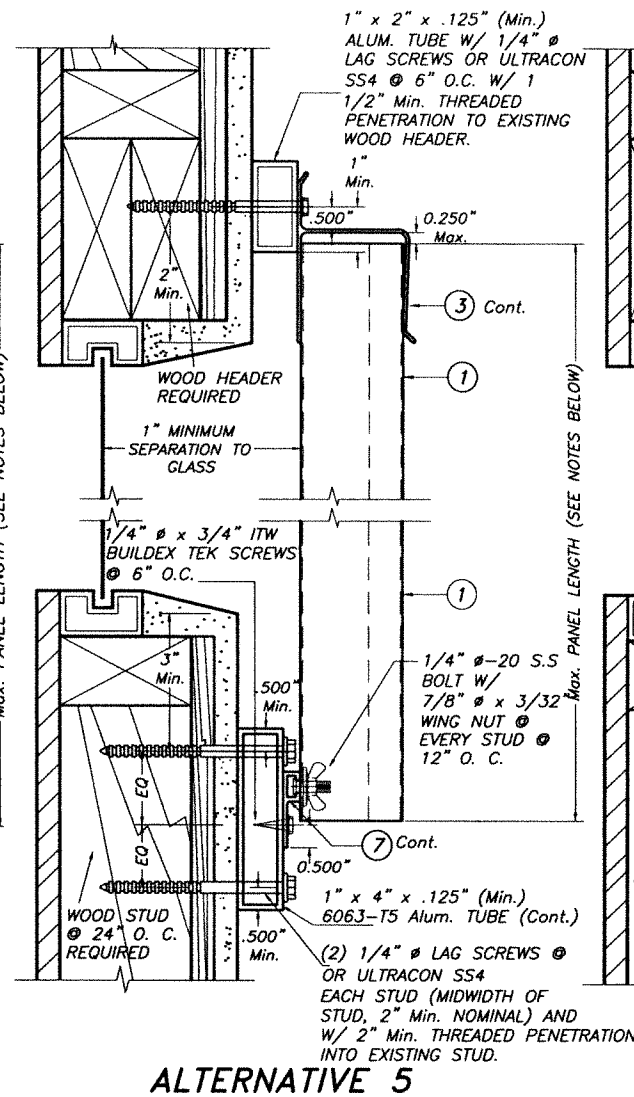
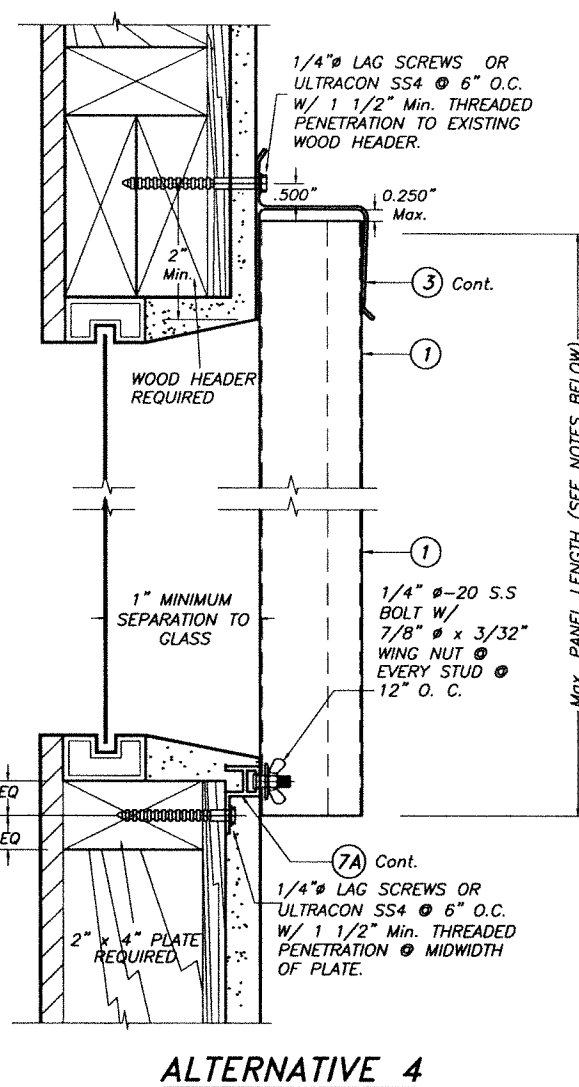
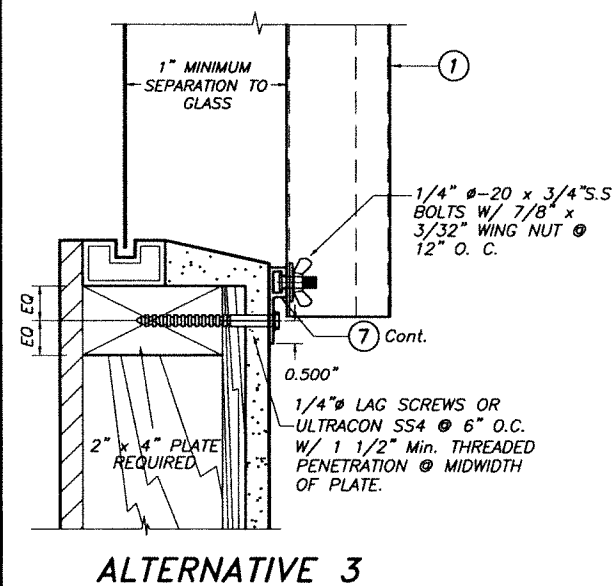
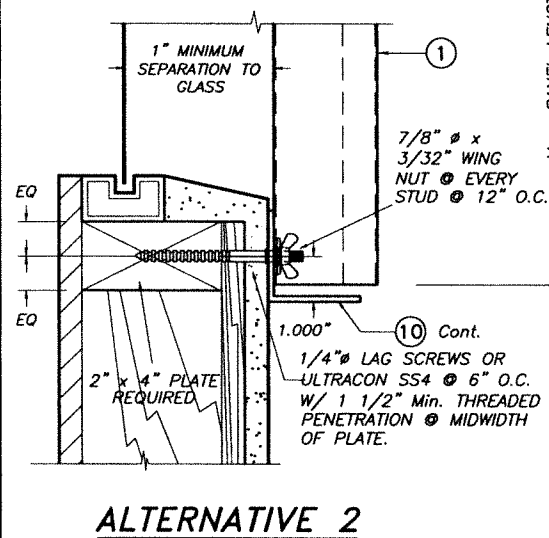
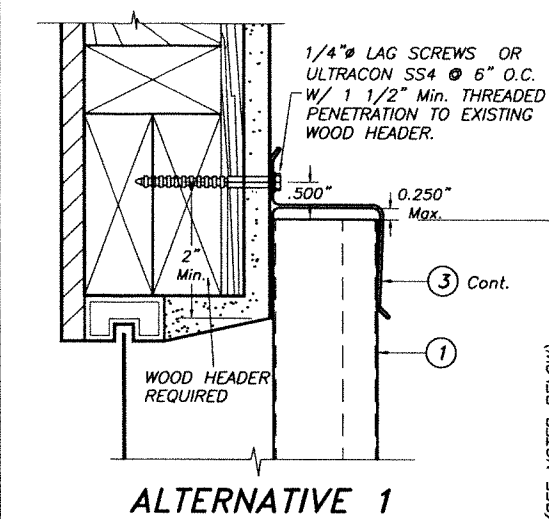
7/23/2026
DATE:

26-228

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1	OLD 23-166	7/23/26	3		
2			4		

SHEET 10 OF 14



WALL MOUNTING INSTALLATIONS SECTIONS A

SCALE : 1/4" = 1"

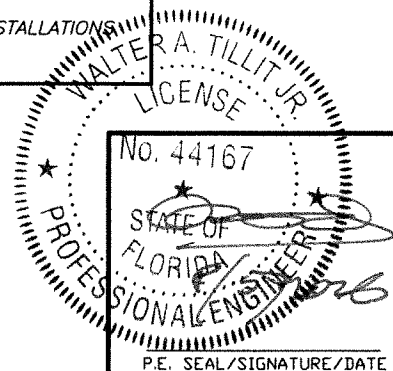
INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING UP TO +65.0, -72.0 psf AND PANEL'S LENGTHS UP TO 9'-0".
2. FOR WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.
3. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300ft OF THE COASTAL SHORELINE.

NOTE FOR COMBINATION OF SECTIONS:

WALL MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



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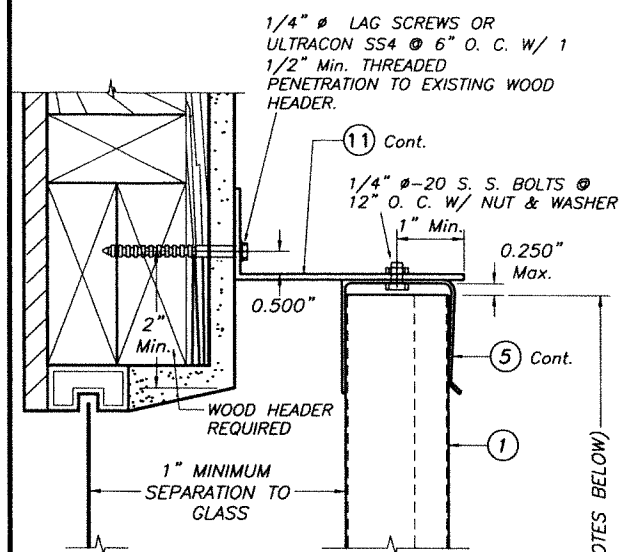
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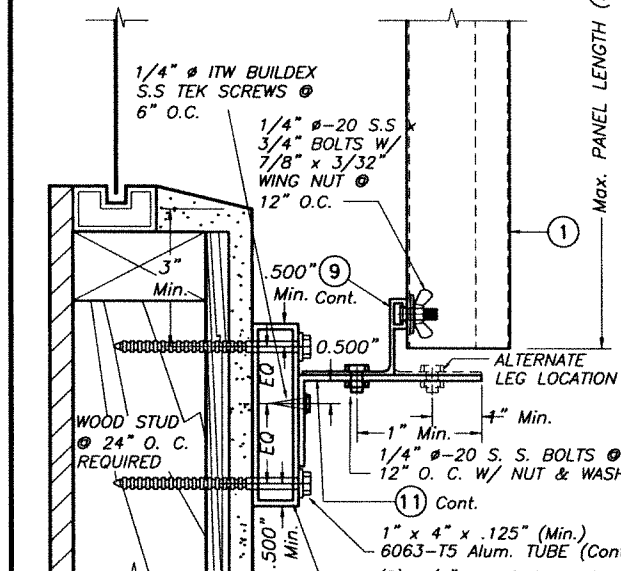
TILLIT TESTING & ENGINEERING COMPANY
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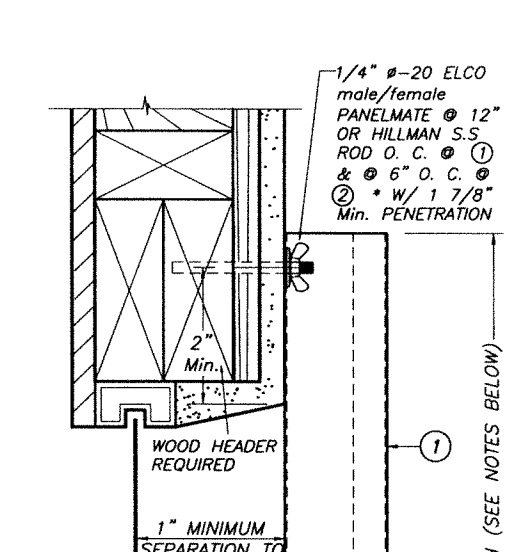
0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)					W.H. DRAWN BY:	
EASTERN METAL SUPPLY, INC					7/23/2026	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (561)209-8263 FAX: (561)841-1716					DATE:	
					26-228	
					DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
1	OLD 23-166	7/23/26	3			
2			4			



ALTERNATIVE 8



ALTERNATIVE 9



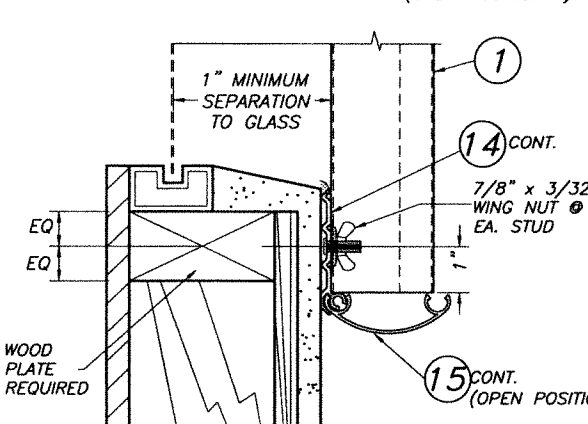
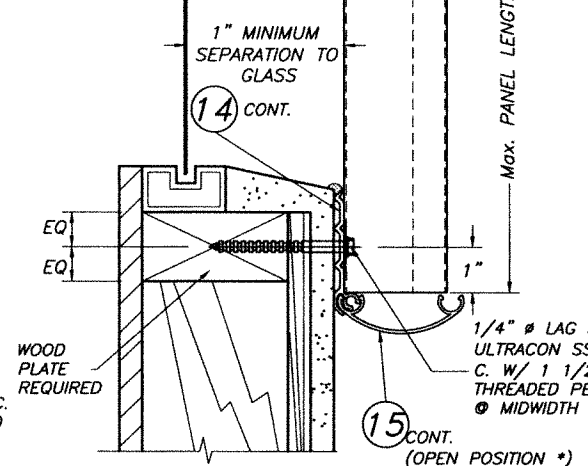
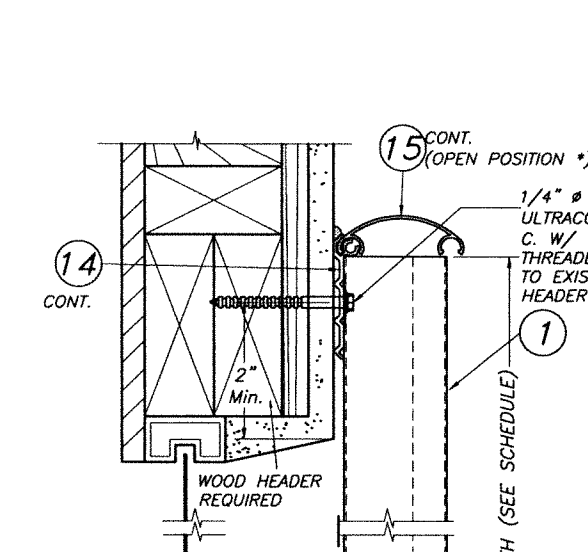
ALTERNATIVE 10

WALL MOUNTING INSTALLATIONS

SECTIONS A SCALE : 1/4" = 1"

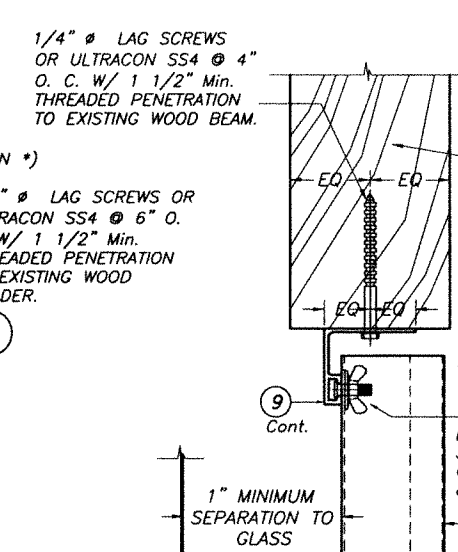
NOTE FOR COMBINATION OF SECTIONS:
FLOOR/ WALL/ CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

- NOTES:**
1. INSTALLATIONS ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING UP TO +65.0, -72.0 psf AND PANEL'S LENGTHS UP TO 9'-0".
 2. FOR WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.
 3. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300ft OF THE COASTAL SHORELINE.

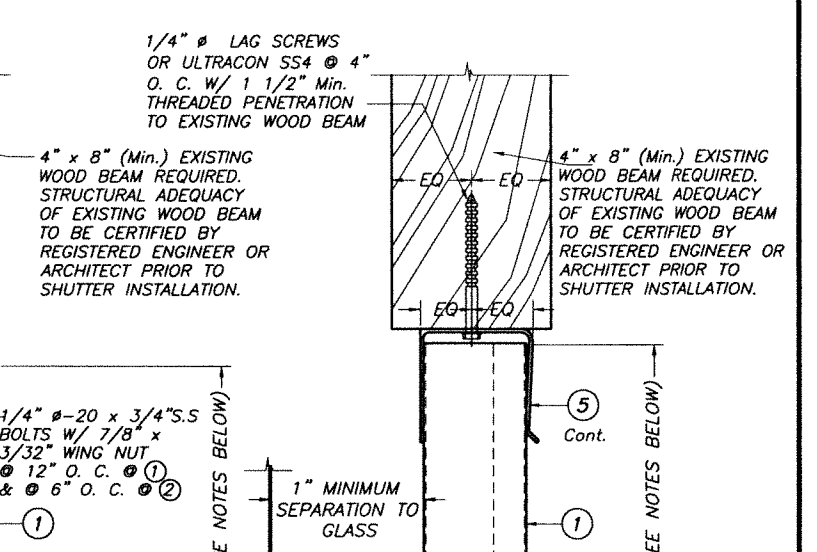


SECTION @ STUD TYP. TOP/BOTTOM
ALTERNATIVE 11

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS



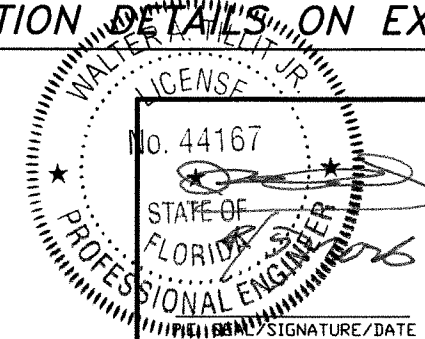
ALTERNATIVE 1



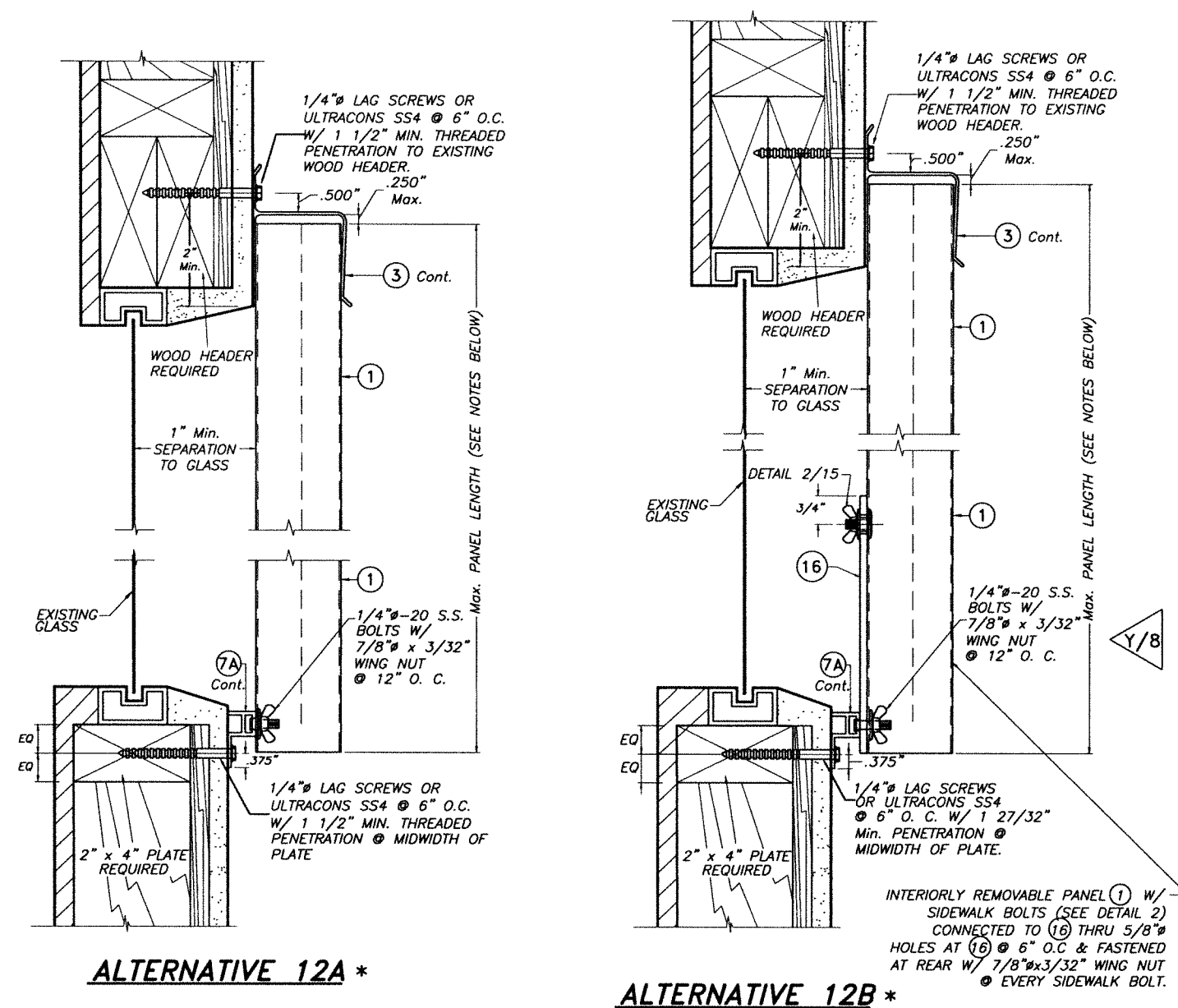
ALTERNATIVE 2

CEILING & FLOOR MOUNTING INSTALLATIONS

SECTIONS B SCALE : 1/4" = 1"



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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2			4		

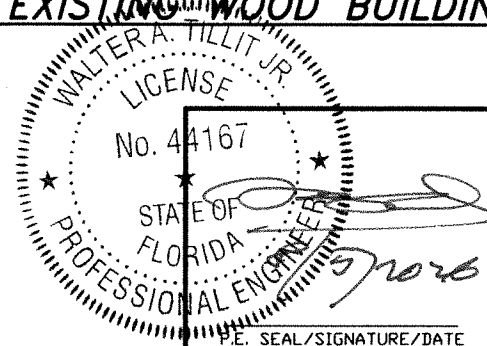


WALL MOUNTING INSTALLATIONS

SECTIONS 12 * VALID FOR Max. +63.5, -63.5 psf.
SCALE : 1/4" = 1" A.S.D. DESIGN PRESSURE RATING.

**INSTALLATIONS VALID FOR PANELS (1) USED JOINTLY
WITH INTERIORLY REMOVABLE PANELS (1)**

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS



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2			4		

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