

GENERAL NOTES:

1. STORM PANEL SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2017 (6th 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 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 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO TO COMPARE THESE W/ 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.
- 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 330-02 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.
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 (19) STUDDED PLATE AND (19) SNAP CAP ARE PATENT PENDING.
4. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 W/ 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4.
5. BOLTS TO 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 TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX.
 - 1/4" Ø CF TAP-GRIP ANCHORS (BERTHA STUD-CON), AS MANUFACTURED BY TRU-FAST CORPORATION.
 - 1/4" Ø ZAMAC NAILIN ANCHORS AS MANUFACTURED BY POWER FASTENERS, INC.
 - 1/4" Ø x 7/8" CALK-IN ANCHORS OR ELCO male & female "PANELMATE" AS MANUFACTURED BY POWER FASTENERS, INC. AND ELCO CONSTRUCTION PRODUCTS, RESPECTIVELY.
 - 1/4" Ø x 3/4" ALL POINTS SOLID-SET ANCHORS AS DISTRIBUTED BY ALL POINTS SCREW, BOLT & SPECIALTY COMPANY.
- NOTES:
- A.1) MINIMUM EMBEDMENT INTO POURED CONCRETE OF TAPCON ANCHORS IS 1 3/4"; FOR ZAMAC NAILIN ANCHORS IS 1 3/8"; FOR ELCO PANELMATE ANCHORS IS 1 3/4" AND FOR CF TAP-GRIP ANCHORS IS 1 1/4".
- A.2) 7/8" CALK-IN 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) MINIMUM EMBEDMENT OF 1/4"Ø x 3/4" ALL POINTS SOLID-SET ANCHORS SHALL BE 7/8" INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- A.4) 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. BUILDEX.
 - 1/4" Ø CF TAP-GRIP ANCHORS (BERTHA STUD-CON), AS MANUFACTURED BY TRU-FAST CORPORATION.
 - 1/4" Ø ZAMAC NAILIN ANCHORS AS MANUFACTURED BY POWER FASTENERS, INC.
 - 1/4" Ø x 7/8" CALK-IN ANCHORS OR ELCO male & female "PANELMATE" AS MANUFACTURED BY POWER FASTENERS, INC. AND ELCO CONSTRUCTION PRODUCTS, RESPECTIVELY.
 - 1/4" Ø x 3/4" ALL POINTS SOLID-SET ANCHORS AS DISTRIBUTED BY ALL POINTS SCREW, BOLT & SPECIALTY COMPANY.
 - 1/4" Ø RED HEAD DYNABOLT SLEEVE ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX.

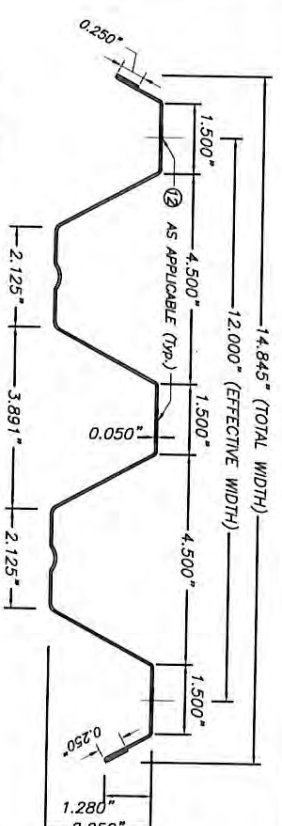
NOTES:

- B.1) MINIMUM EMBEDMENT OF TAPCON, ELCO PANELMATE, AND CF TAP-GRIP ANCHORS INTO CONCRETE BLOCK UNIT SHALL BE 1 1/4"; 1 3/8" FOR ZAMAC NAILIN ANCHORS AND 1 1/8" FOR RED HEAD DYNABOLT SLEEVE ANCHORS
- B.2) 7/8" CALK-IN 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) MINIMUM EMBEDMENT OF 1/4"Ø x 3/4" ALL POINTS SOLID-SET ANCHORS SHALL BE 7/8" INTO THE CONCRETE BLOCK. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- B.4) 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.
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 SHUTTER IS TO BE ATTACHED TO INSURE 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. (c) 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) 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 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 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.
11. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT STORM PANEL IN ACCORDANCE WITH SECTION 1709.9.3 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.

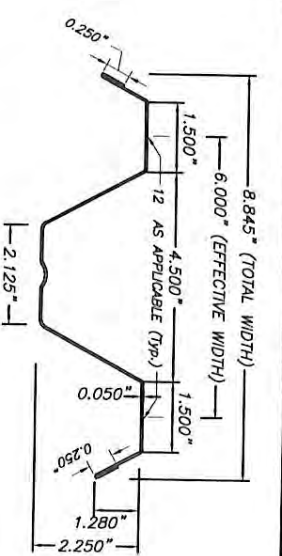


THIS DRAWING SHALL ONLY BE USED TO OBTAIN PERMITS IN THE STATE OF FLORIDA

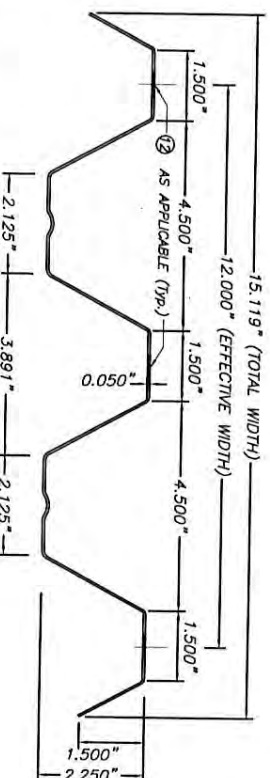
©2017 TILTECO, INC.		DRAWN BY:			
0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)		L.C.			
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)		DATE: 07/26/17			
TILTECO inc.		EASTERN METAL SUPPLY, INC			
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)209-8263, FAX: (561)841-1716		17-096			
TILLIT TESTING & ENGINEERING COMPANY 6535 N.W. 36th, St., Ste. 305, VIRGINIA GARDENS, FL. 33166 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT JR., P.E. FLORIDA Lic. # 44167		DRAWING NO.			
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 15-044	07/26/17	3		
2	C.N. 1	10/26/17	4		
				SHEET 1 OF 14	



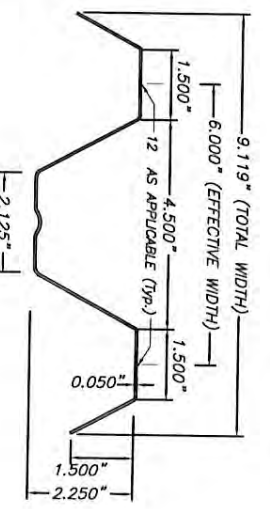
1 FULL ALUMINUM PANEL W/ HEMMED EDGES



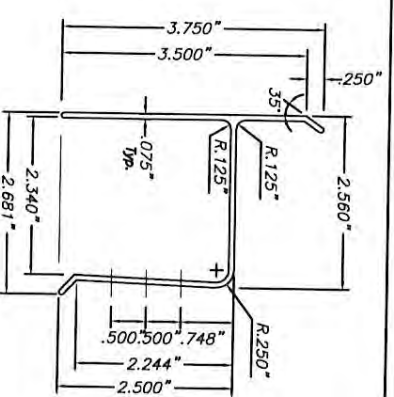
1A HALF ALUMINUM PANEL W/ HEMMED EDGES



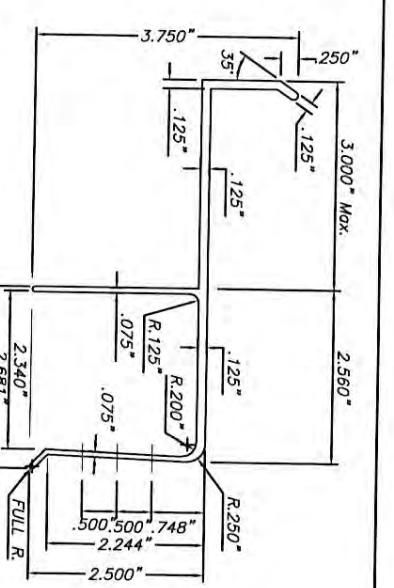
1 FULL ALUMINUM PANEL W/O HEMMED EDGES



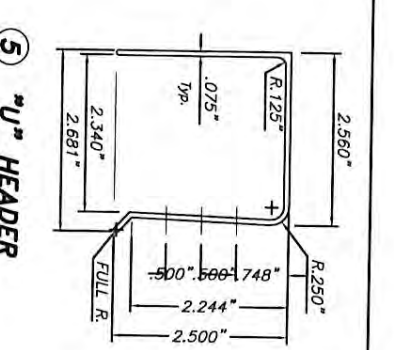
1A HALF ALUMINUM PANEL W/O HEMMED EDGES



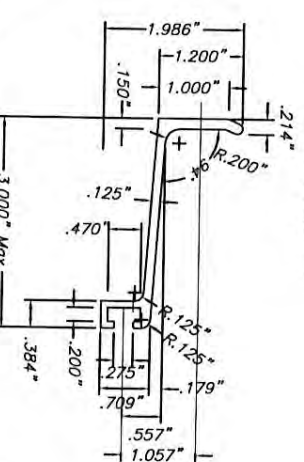
3 h" HEADER



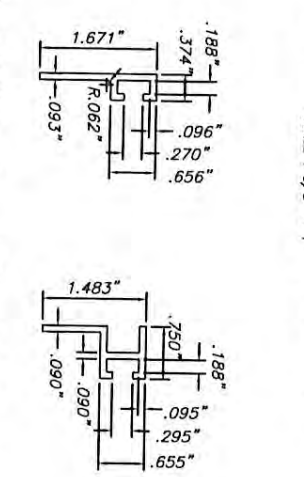
4 3" Max. "U" BUILD OUT



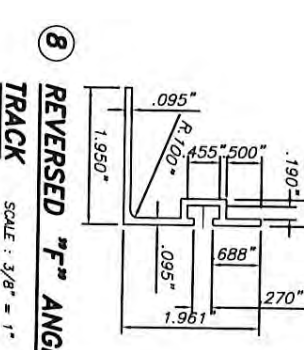
5 "U" HEADER



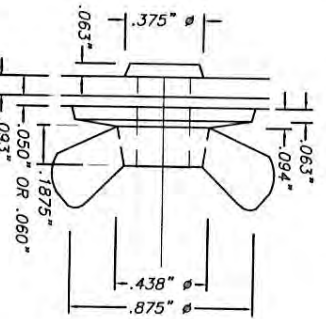
6 3" ANGLE BUILD OUT BRACKET



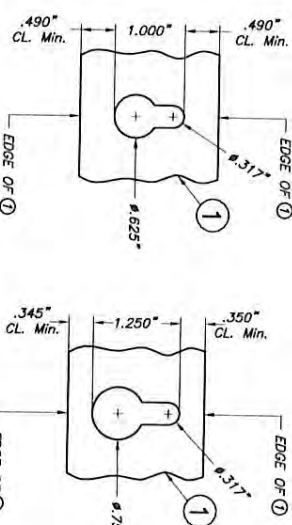
7 3/8" B. O. "F" TRACK



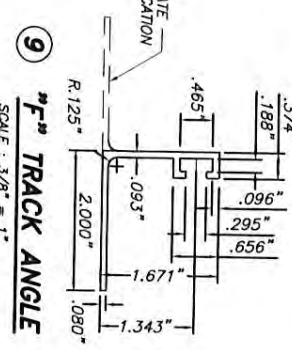
8 REVERSED "F" ANGLE TRACK



17 2"x5" (MAX.) x 1/8" ANGLE WITH STUD

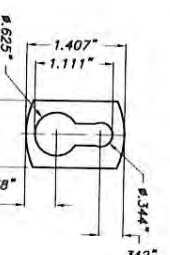


11 2" x 5" (MAX.) x .125" ANGLE

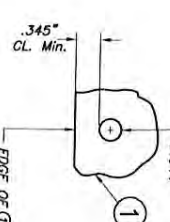


9 "F" TRACK ANGLE

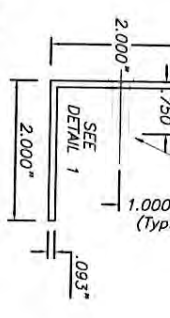
OPTION 1
12 KEY HOLE AT PANEL



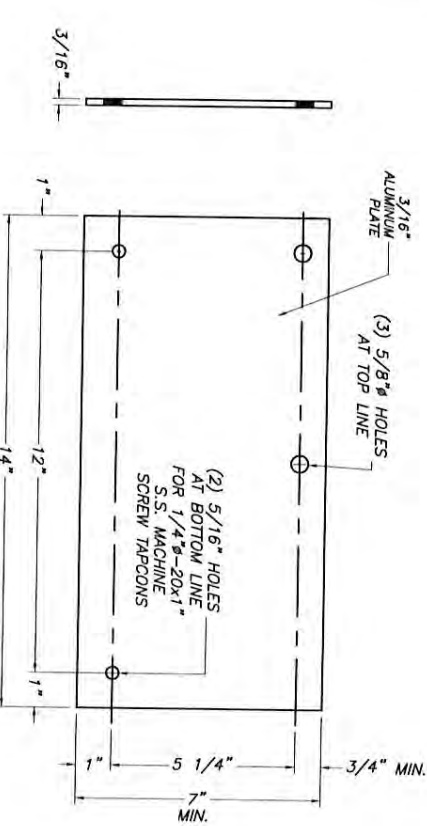
13 KEY HOLE WASHER



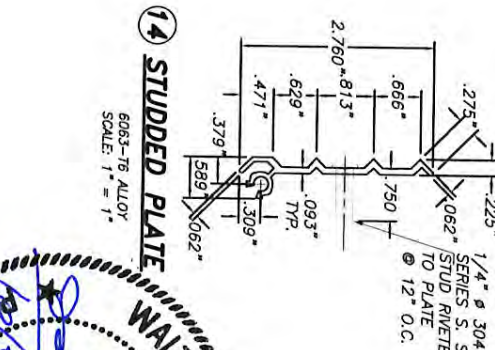
12A ROUND HOLE AT PANEL (OPTION TO 12)



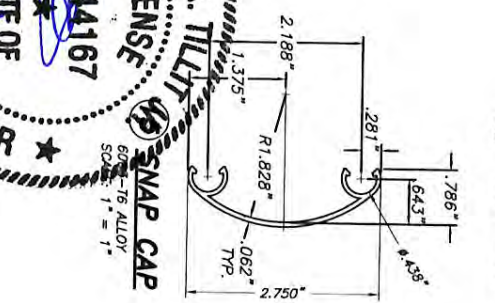
10 STUDED ANGLE



16 3/16"x7"x14" LONG WALL PLATE



14 STUDED PLATE



15 KEY HOLE AT PANEL



TILTECO INC.

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

EASTERN METAL SUPPLY, INC.

17-096

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)

L.C.

07/26/17

REV. NO. 1

DESCRIPTION

DATE

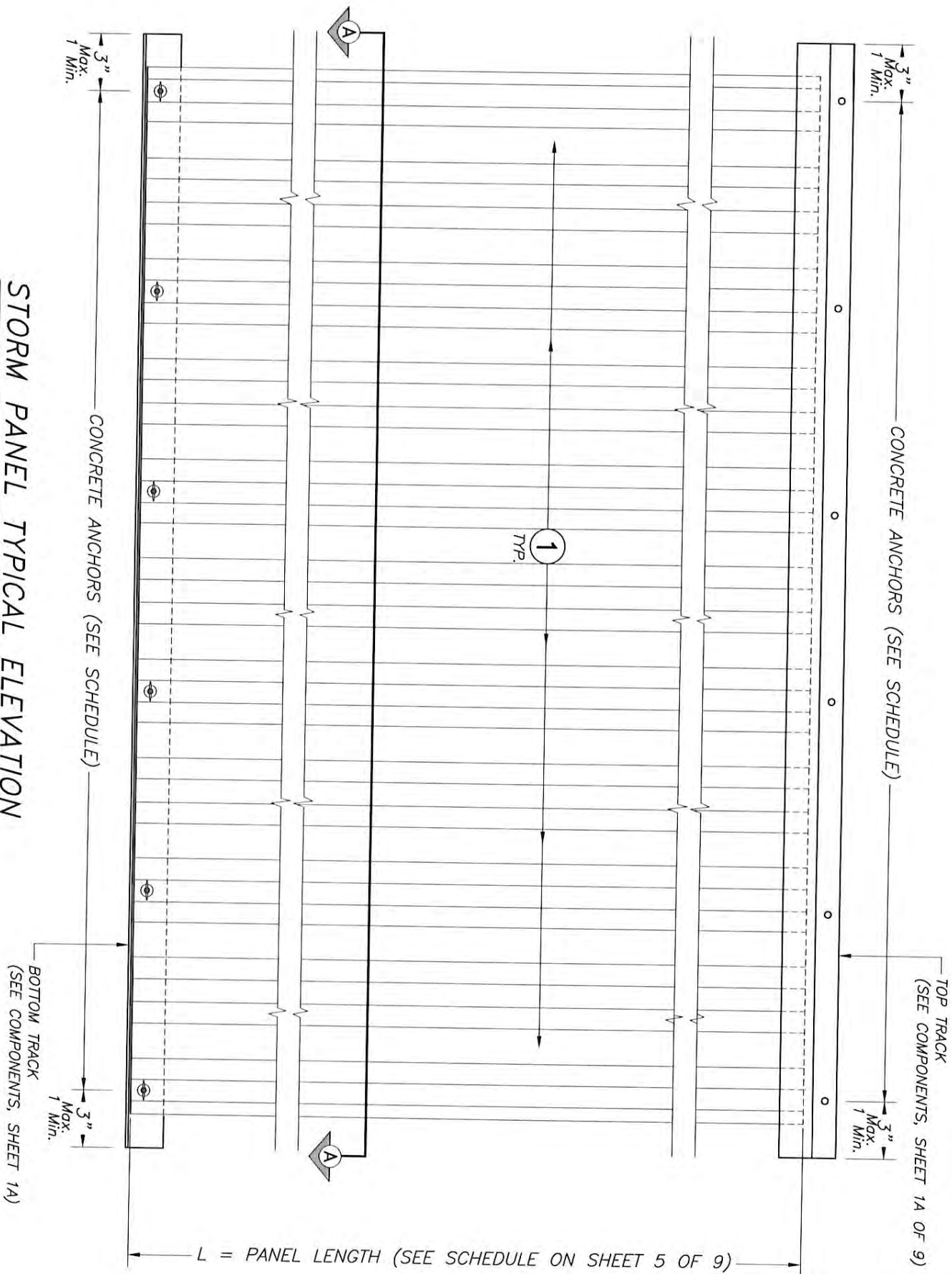
REV. NO. 2

DESCRIPTION

DATE

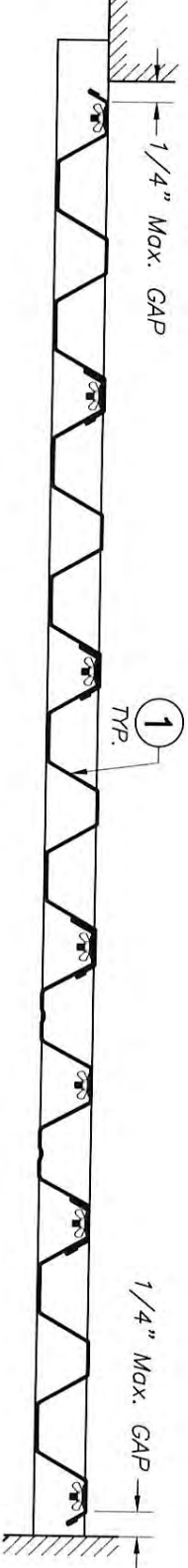
SHEET 1A OF 14

DRAWING NO.



STORM PANEL TYPICAL ELEVATION

SCALE : 1/8" = 1"



SECTION A-A

SCALE : 1/8" = 1"



© 2017 TILTECO, INC.

TILTECO inc.

TILIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)971-1530 . Fax : (305)971-1531
EB-0006719
WALTER A. TILIT 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

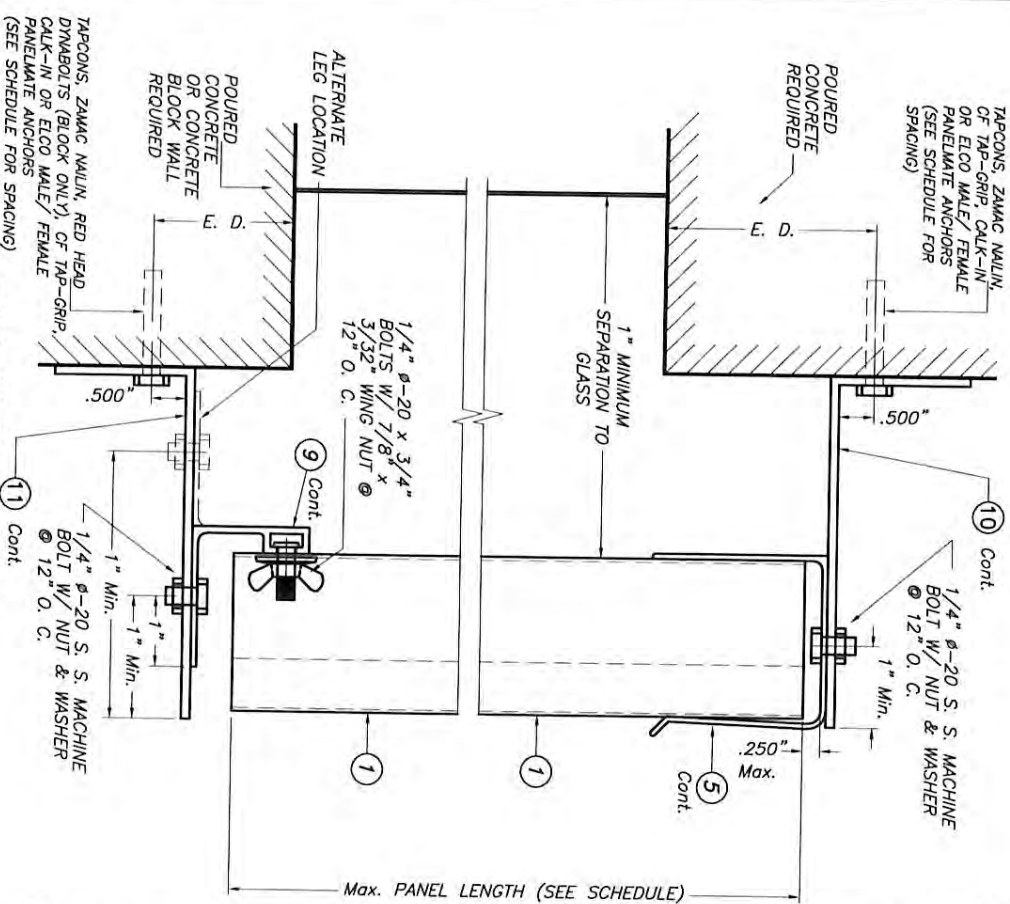
L.C.
DRAWN BY:

07/26/17
DATE:

17-096
DRAWING NO

SHEET 2 OF 14

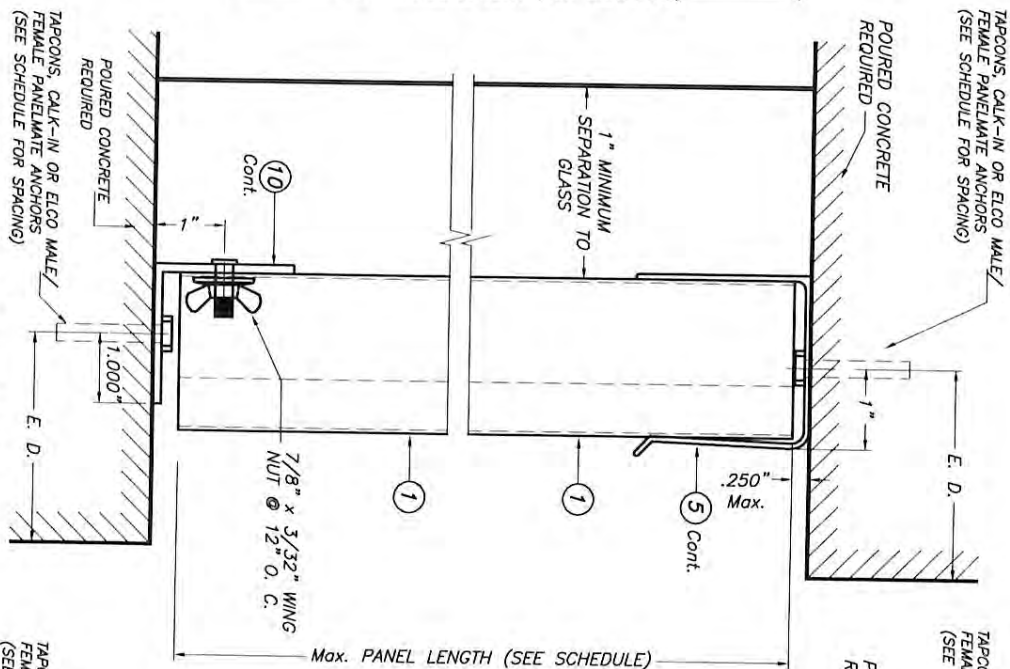
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 15-044	07/26/17	3		
2			4		



BUILD OUT INSTALLATION

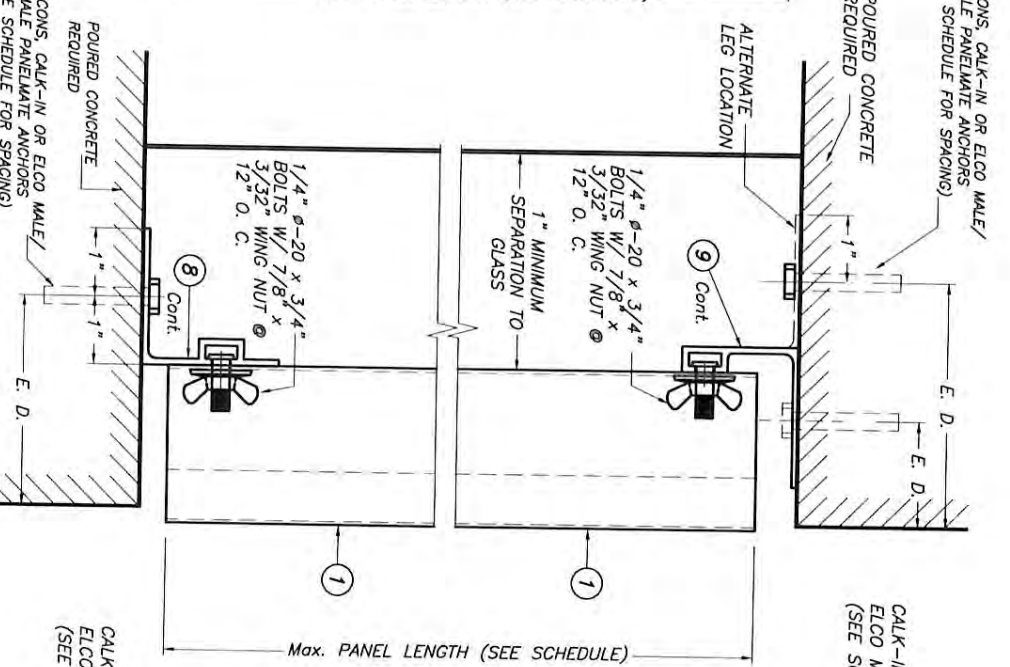
SECTION 5

SCALE : 3/8" = 1"



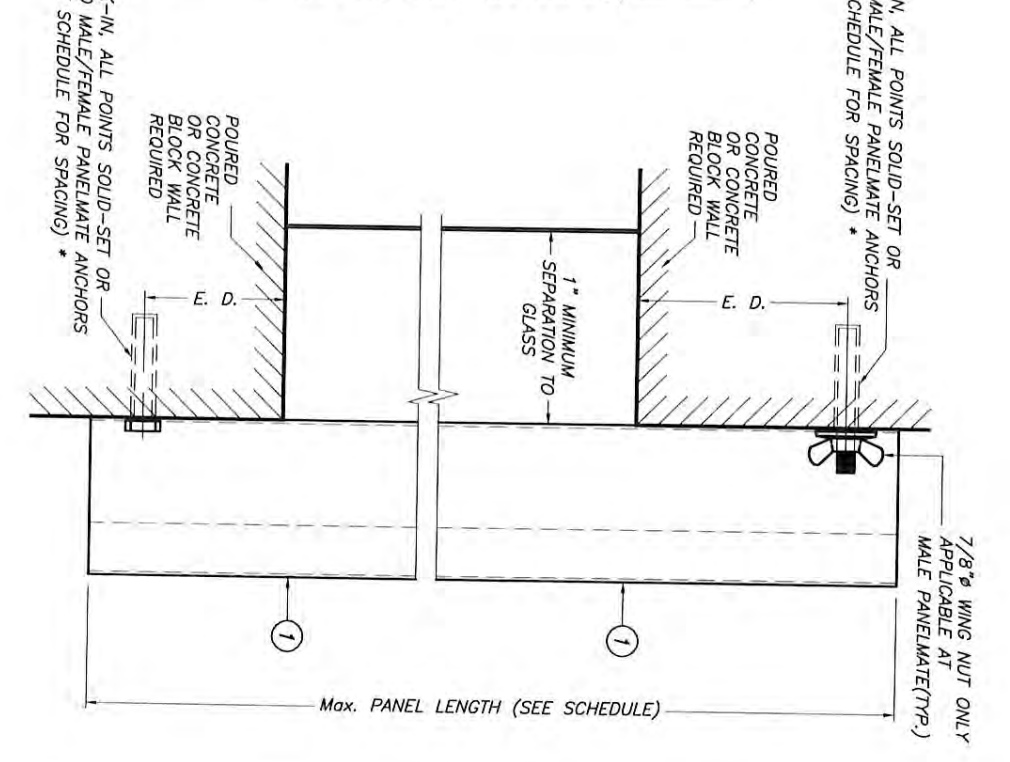
CEILING & FLOOR MOUNTING INSTALLATION - SECTION 6

SCALE : 3/8" = 1"



CEILING & FLOOR MOUNTING INSTALLATION - SECTION 7

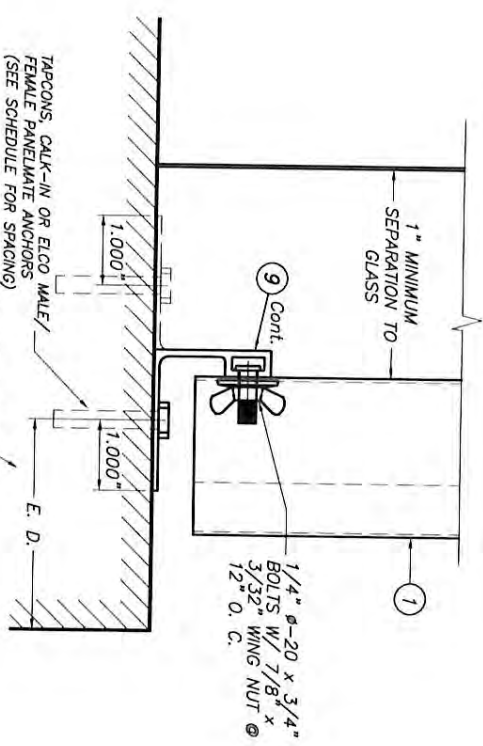
SCALE : 3/8" = 1"



WALL MOUNTING INSTALLATION (D. M.) - SECTION 8

SCALE : 3/8" = 1"

* SCREWS USED AT ANCHORS MAY BE 1/4" - 20 SIDE WALK BOLT W/ ② OR 1/4" - 20 TRUSS HEAD BOLT W/ ③ & ④.
 * SIDE WALK BOLTS ARE 3/4" x 3/32" THICK HEAD MACHINE SCREW W/ LENGTH AS PER NOTES A.2 & B.2 (SHEET 1).
 * TRUSS HEAD BOLTS ARE 1/2" x 1/8" THICK 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.



© 2017 TILTECO, INC.

TILTECO inc.

TILT TESTING & ENGINEERING COMPANY
 6385 N.W. 38th St., Ste. 305, Virginia Gardens, FL 33166
 Phone : (305) 871-1530, Fax : (305) 871-1531
 EB-0006719
 WALTER A. TILT JR., P.E.
 FLORIDA Lic. # 44167

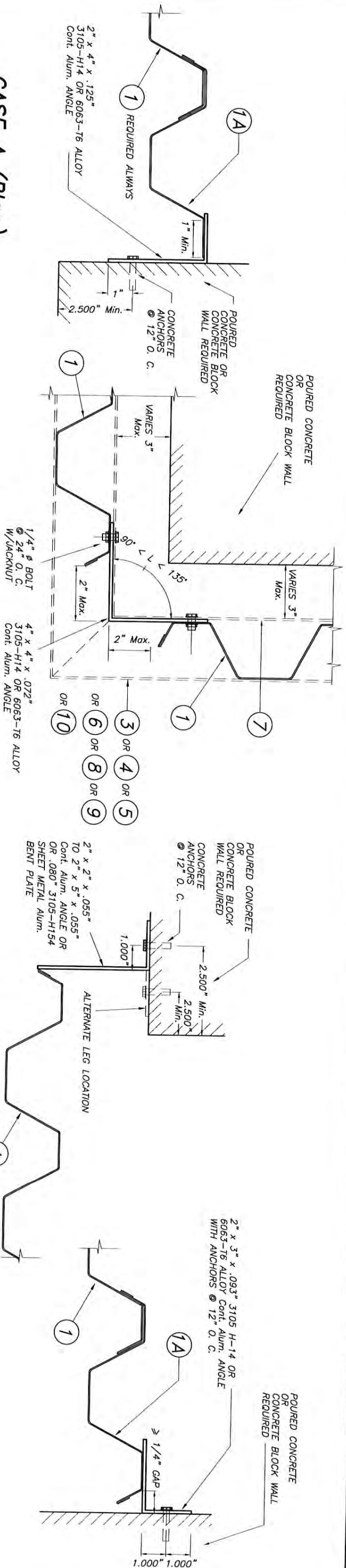
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

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

07/26/17 DATE: 17-096
 DRAWN BY: L.C.
 SHEET 4 OF 14



CASE A (Plan)

SCALE: 1/4" = 1"

CASE B (Plan)

SCALE: 1/4" = 1"

CASE C (Plan)

SCALE: 1/4" = 1"

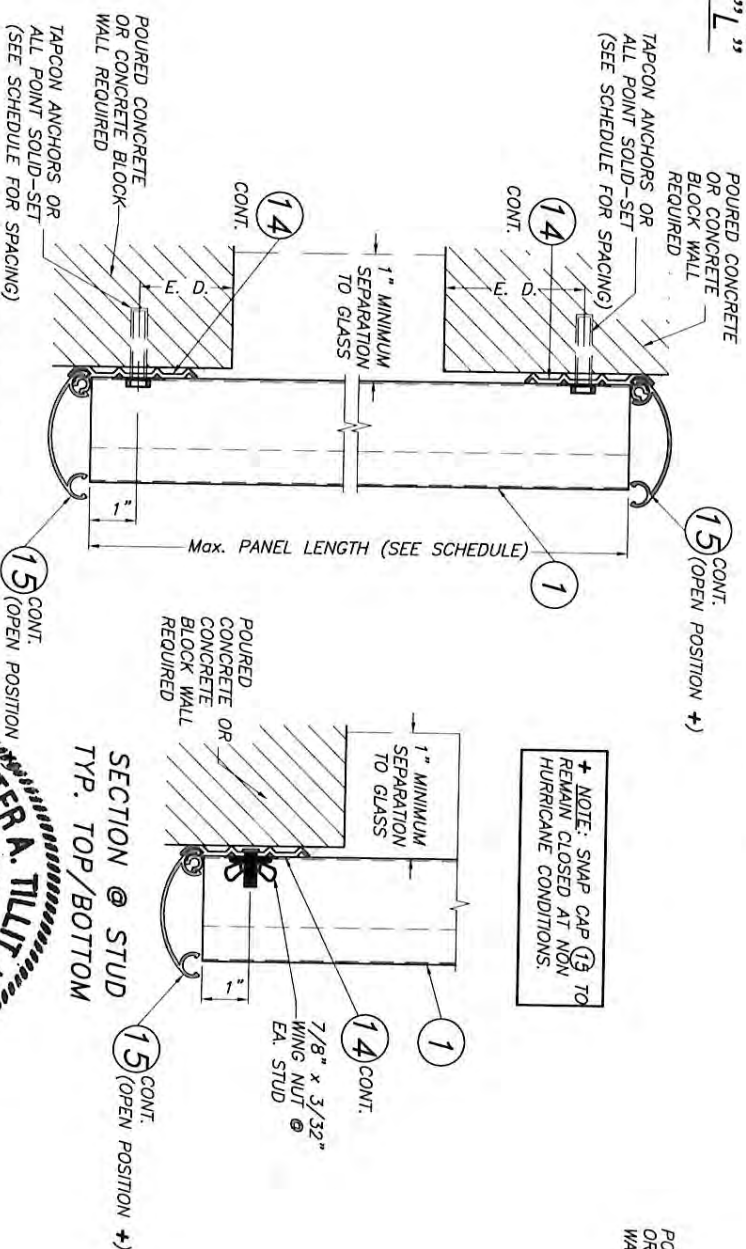
CASE D (Plan)

SCALE: 1/4" = 1"

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".

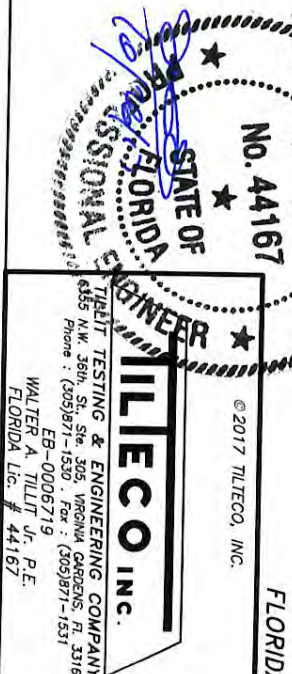


CASE E (Plan)

SCALE: 1/4" = 1"

WALL MOUNTING INSTALLATION SECTION 9

SCALE: 3/8" = 1"



FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)		L.C.	
0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)		DRAWN BY:	
EASTERN METAL SUPPLY, INC.		DATE:	
4268 WEST ROADS DRIVE		17-096	
WEST PALM BEACH, FL. 33407		DRAWING No	
PHONE: (561) 209-8263 FAX: (561) 841-1716		SHEET 5 OF 14	
REV. No	DESCRIPTION	DATE	DATE
1	OLD 15-044	07/26/17	
2			

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		ZMAC NAILIN/ RED HD. DYABOLT		CALK-IN		SOLID-SET		PANELMATES		CF TAP-GRIP					
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	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"	-	12"	-	12"	-	1 (TOP)	8'-0" OR LESS
	12"	10"	12" ⁺⁺	12"	12"	8"	12"	12"	12"	12"	12"	10 1/2"	1, 9 ⁺ (BOTTOM)			
	12"	-	12" ⁺⁺	-	12"	12"	12"	12"	12"	-	12"	-	2, 9 ⁺ (TOP)			
	12"	10"	12" ⁺⁺	12"	12"	8"	-	-	12"	12"	12"	10 1/2"	2 (BOTTOM)			
	12"	10"	12" ⁺⁺	12"	12"	8"	-	-	12"	12"	12"	10 1/2"	2A (BOTTOM)			
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	-	12"	-	3 & 4 (TOP)			
	12"	10"	12" ⁺⁺	12"	12"	8"	-	-	12"	12"	12"	10 1/2"	3 (BOTTOM)			
	12"	10"	12" ⁺⁺	12"	12"	8"	-	-	12"	12"	12"	10 1/2"	4 (BOTTOM)			
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	-	12"	-	5 (TOP)			
	12"	10"	12" ⁺⁺	12"	12"	8"	-	-	12"	12"	12"	10 1/2"	5 (BOTTOM)			
+35.0, -40.0 OR LESS	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	-	12"	-	12"	-	6 (TOP)	>8'-0" TO 10'-0"
	12"	10"	12" ⁺⁺	12"	12"	8"	-	-	12"	12"	12"	10 1/2"	6 (BOTTOM)			
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	-	12"	-	5A (BOTTOM) 7 (TOP)			
	12"	10"	12" ⁺⁺	12"	12"	8"	-	-	12"	12"	12"	10 1/2"	7 (BOTTOM)			
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	-	12"	-	8 (TOP/BOTTOM)			
	12"	10"	12" ⁺⁺	12"	12"	8"	-	-	12"	12"	12"	10 1/2"	1 (TOP)			
	12"	10"	12" ⁺⁺	12"	12"	8"	-	-	12"	12"	12"	10 1/2"	1, 9 ⁺ (BOTTOM)			
	12"	-	12" ⁺⁺	-	12"	12"	12"	12"	12"	-	12"	-	2, 9 ⁺ (TOP)			
	12"	8"	12" ⁺⁺	12"	12"	6"	-	-	12"	12"	12"	8 1/2"	2 (BOTTOM)			
	12"	8"	12" ⁺⁺	12"	12"	6"	-	-	12"	12"	12"	8 1/2"	2A (BOTTOM)			
+35.0, -40.0 OR LESS	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	-	12"	-	12"	-	3 & 4 (TOP)	>8'-0" TO 10'-0"
	12"	8"	12" ⁺⁺	12"	12"	6"	-	-	12"	12"	12"	8 1/2"	3 (BOTTOM)			
	12"	8"	12" ⁺⁺	12"	12"	6"	-	-	12"	12"	12"	8 1/2"	4 (BOTTOM)			
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	-	12"	-	5 (TOP)			
	12"	8"	12" ⁺⁺	12"	12"	6"	-	-	12"	12"	12"	8 1/2"	5 (BOTTOM)			
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	-	12"	-	6 (TOP)			
	12"	8"	12" ⁺⁺	12"	12"	6"	-	-	12"	12"	12"	8 1/2"	6 (BOTTOM)			
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	-	12"	-	5A (BOTTOM) 7 (TOP)			
	12"	8"	12" ⁺⁺	12"	12"	6"	-	-	12"	12"	12"	8 1/2"	7 (BOTTOM)			
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	-	12"	-	8 (TOP/BOTTOM)			

MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **															APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	TAPCONS		ZAMC NAILIN/ RED HD. DYABOLT		CALK-IN		SOLID-SET		PANELMATES		CF TAP-GRIP					
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	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"	-	10"	-	1 (TOP)	>10'-0" TO 12'-11"		
	12"	6"	12"++	12"	12"	5"	12"	12"	12"	12"	11 1/2"	6 1/2"	1, 9" (BOTTOM)			
	12"	6"	11"++	-	12"	12"	12"	12"	-	11 1/2"	-	2, 9" (TOP)				
	12"	6"	12"++	12"	12"	5"	-	-	12"	12"	11 1/2"	6 1/2"	2 (BOTTOM)			
	12"	6"	12"++	12"	12"	5"	-	-	12"	12"	11 1/2"	6 1/2"	2A (BOTTOM)			
	12"	-	12"++	-	12"	-	-	-	12"	-	11 1/2"	-	3 & 4 (TOP)			
	12"	6"	12"++	12"	12"	5"	-	-	12"	12"	11 1/2"	6 1/2"	3 (BOTTOM)			
	12"	6"	12"++	12"	12"	5"	-	-	12"	12"	11 1/2"	6 1/2"	4 (BOTTOM)			
	12"	-	12"++	-	12"	-	-	-	12"	-	11 1/2"	-	5 (TOP)			
	12"	6"	12"++	12"	12"	5"	-	-	12"	12"	11 1/2"	6 1/2"	5 (BOTTOM)			
-	10"	-	-	-	10"	-	-	-	12"	-	-	-	6 (TOP)			
	8"	-	-	-	8"	-	-	-	11"	-	-	-	6 (BOTTOM)			
	7"	-	-	-	7"	-	-	-	9 1/2"	-	-	-	5A (BOTTOM)			
	7"	-	-	-	7"	-	-	-	10"	-	-	-	7 (TOP)			
	-	-	-	-	12"	-	-	-	12"	-	-	-	7 (BOTTOM)			
	-	-	-	-	12"	-	-	-	12"	-	-	-	8 (TOP/BOTTOM)			

+ ONLY TAPCON ANCHORS OR ALL POINT SOLID-SET ALLOWED FOR MOUNTING SECTION 9.

++ ANCHORS SPACING ONLY VALID FOR ZAMAC NAILIN.

* 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 CALK-IN ANCHORS & ELCO PANELMATE IS 2 1/2", AND 3 1/2" FOR SOLID-SET ANCHORS).

ACTUAL E. D.	FACTOR			
	TAPCON	ZAMAC NAILIN /DYABOLT /PANELMATES	CALK-IN	SOLID-SET
3"	-	.86	.75	.78
2 1/2"	-	.71	.50	.80
2"	-	.50	-	-
1 1/2"	.35	-	-	-

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)

TILECO inc.

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 38th, St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 , Fax : (305)871-1531
EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

EASTERN METAL SUPPLY, INC

4266 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)209-8263, FAX: (561)841-1716

07/26/17
DATE:

17-096
DRAWING NO.

REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 15-044	07/28/17	3		
2			4		

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.

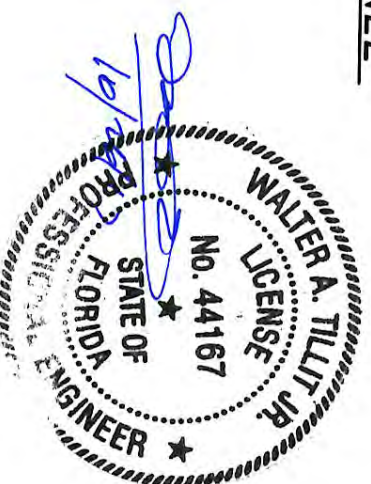
MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR INSTALLATIONS INTO CONCRETE AND CONCRETE BLOCK STRUCTURES *

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		ZAMAC NAILIN/ RED HD. DYNABOLT		CALK-IN		SOLID-SET		PANELMATES		CF TAP-GRIP			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	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"	-	12"	-	1 (TOP)	8'-0" OR LESS
	12"	6"	12" ⁺⁺	12"	12"	5"	12"	12"	12"	12"	12"	7"	1, 9 ^t (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	12"	12"	12"	-	12"	-	2, 9 ^t (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	2 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	2A (BOTTOM)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	3 & 4 (TOP)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	3 (BOTTOM)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	4 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	5 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	5 (BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0	12"	-	12" ⁺⁺	-	12"	-	12"	12"	12"	12"	-	-	6 (TOP)	8'-0" OR LESS
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	6 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	7 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	7 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	8 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	8 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	9 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	9 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	10 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	10 (BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0	12"	-	12" ⁺⁺	-	12"	-	12"	12"	12"	12"	-	-	11 (TOP)	8'-0" OR LESS
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	11 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	12 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	12 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	13 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	13 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	14 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	14 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	15 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	15 (BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0	12"	-	12" ⁺⁺	-	12"	-	12"	12"	12"	12"	-	-	16 (TOP)	8'-0" OR LESS
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	16 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	17 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	17 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	18 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	18 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	19 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	19 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	20 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	20 (BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0	12"	-	12" ⁺⁺	-	12"	-	12"	12"	12"	12"	-	-	21 (TOP)	8'-0" OR LESS
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	21 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	22 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	22 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	23 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	23 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	24 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	24 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	25 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	25 (BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0	12"	-	12" ⁺⁺	-	12"	-	12"	12"	12"	12"	-	-	26 (TOP)	8'-0" OR LESS
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	26 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	27 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	27 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	28 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	28 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	29 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	29 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	30 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	30 (BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0	12"	-	12" ⁺⁺	-	12"	-	12"	12"	12"	12"	-	-	31 (TOP)	8'-0" OR LESS
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	31 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	32 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	32 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	33 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	33 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	34 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	34 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	35 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	35 (BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0	12"	-	12" ⁺⁺	-	12"	-	12"	12"	12"	12"	-	-	36 (TOP)	8'-0" OR LESS
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	36 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	37 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	37 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	38 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	38 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	39 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	39 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	40 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	40 (BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0	12"	-	12" ⁺⁺	-	12"	-	12"	12"	12"	12"	-	-	41 (TOP)	8'-0" OR LESS
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	41 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	42 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	42 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	43 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	43 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	44 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	44 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	45 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	45 (BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0	12"	-	12" ⁺⁺	-	12"	-	12"	12"	12"	12"	-	-	46 (TOP)	8'-0" OR LESS
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	46 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	47 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	47 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	48 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	48 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	49 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	49 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	50 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	50 (BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0	12"	-	12" ⁺⁺	-	12"	-	12"	12"	12"	12"	-	-	51 (TOP)	8'-0" OR LESS
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	51 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	52 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	52 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	53 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	53 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	54 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	54 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	55 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	55 (BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0	12"	-	12" ⁺⁺	-	12"	-	12"	12"	12"	12"	-	-	56 (TOP)	8'-0" OR LESS
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	56 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	57 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	57 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	58 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	58 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	59 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	59 (BOTTOM)	
	12"	-	12" ⁺⁺	-	12"	-	-	-	12"	12"	12"	7"	60 (TOP)	
	12"	6"	12" ⁺⁺	12"	12"	5"	-	-	12"	12"	12"	7"	60 (BOTTOM)	
>+35.0, -40.0 TO +55.0, -60.0														



SCALE : $1/8" = 1"$



SECTIONS 10
SCALE : $3/8" = 1"$

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

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

© 2017 TILTECO, INC.

0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)

(2.25" DEEP)

L.C.
DRAWN BY:

THE ECONOMICS

EASTERN METAL SUPPLY, INC.

07/26/17
DATE:

THE CO INC.

4268 WEST ROADS DRIVE

DATE:

TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone: (305) 871-1510 Fax: (305) 874-8874

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

17-096

Phone : (00351)-1331 : Fax : (00351)-1331
EB-0006719

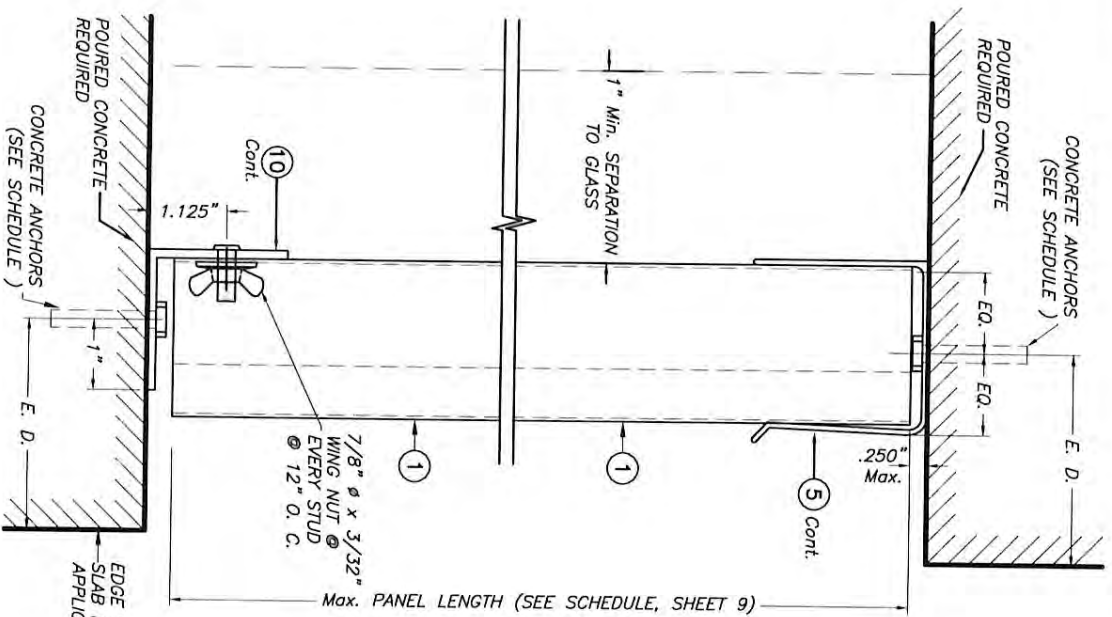
DESCRIPTION	DATE	REV. N
-------------	------	--------

DRAWING No

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

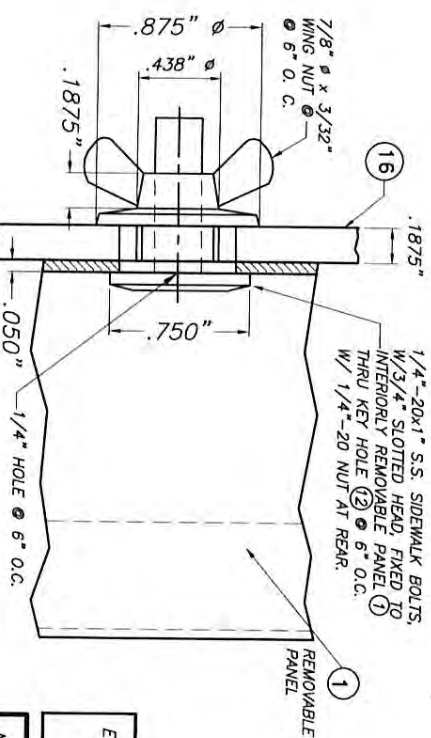
OLD 15-044	07/26/17	3
------------	----------	---

SUBJECT a. of 1



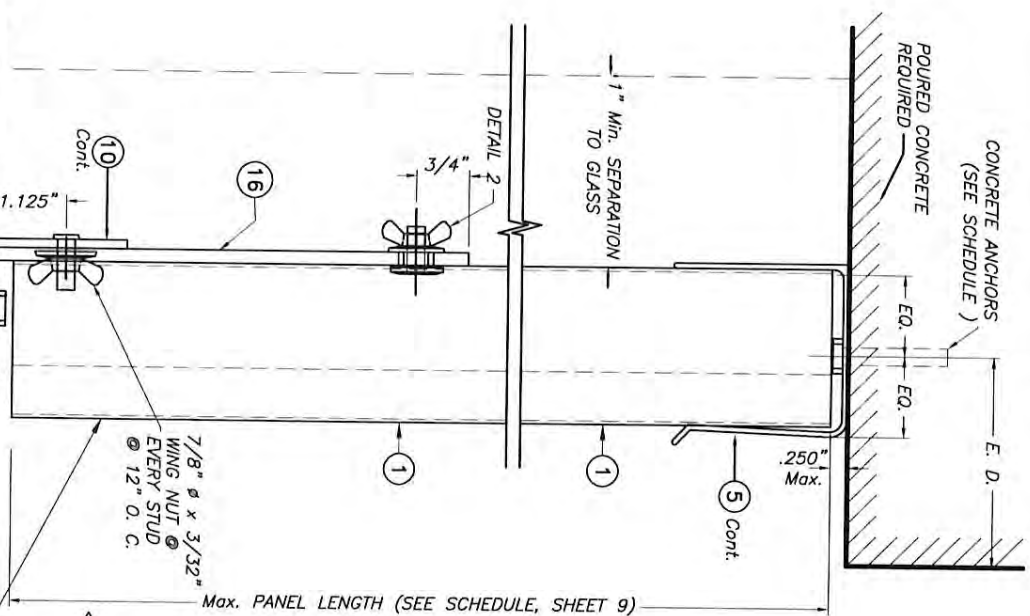
SECTION 11A
CEILING & FLOOR MOUNTING INSTALLATIONS
SECTIONS 11

SCALE : 3/8" = 1"



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

SCALE: 1" = 1"



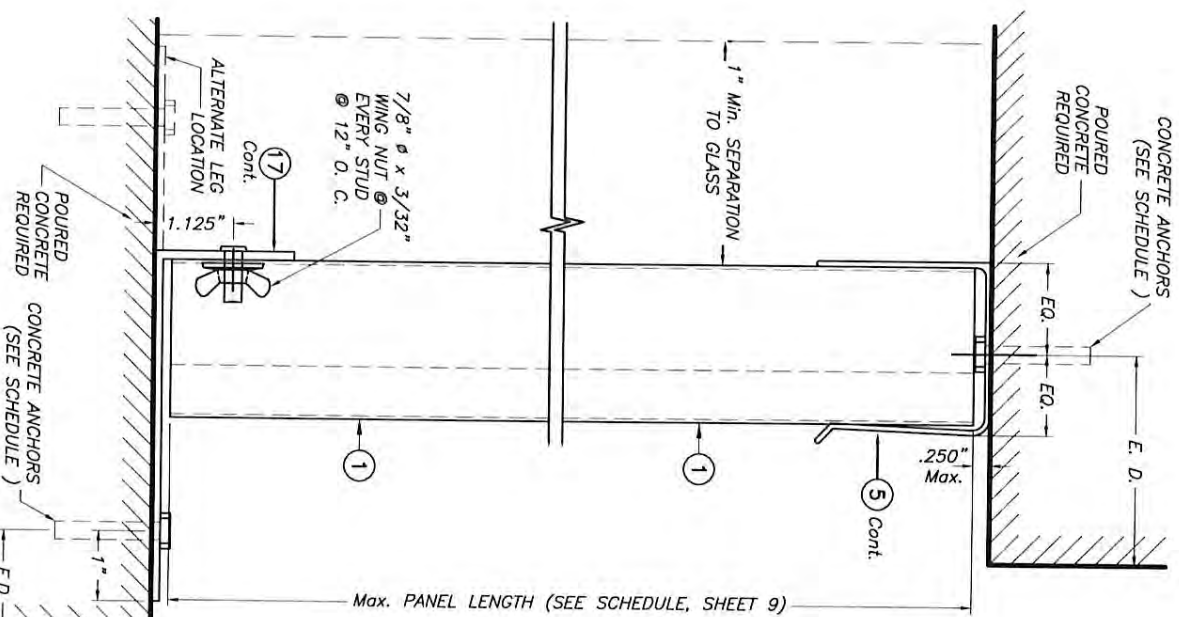
SECTION 11B
CEILING & FLOOR MOUNTING INSTALLATIONS
SECTIONS 11

SCALE : 3/8" = 1"

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

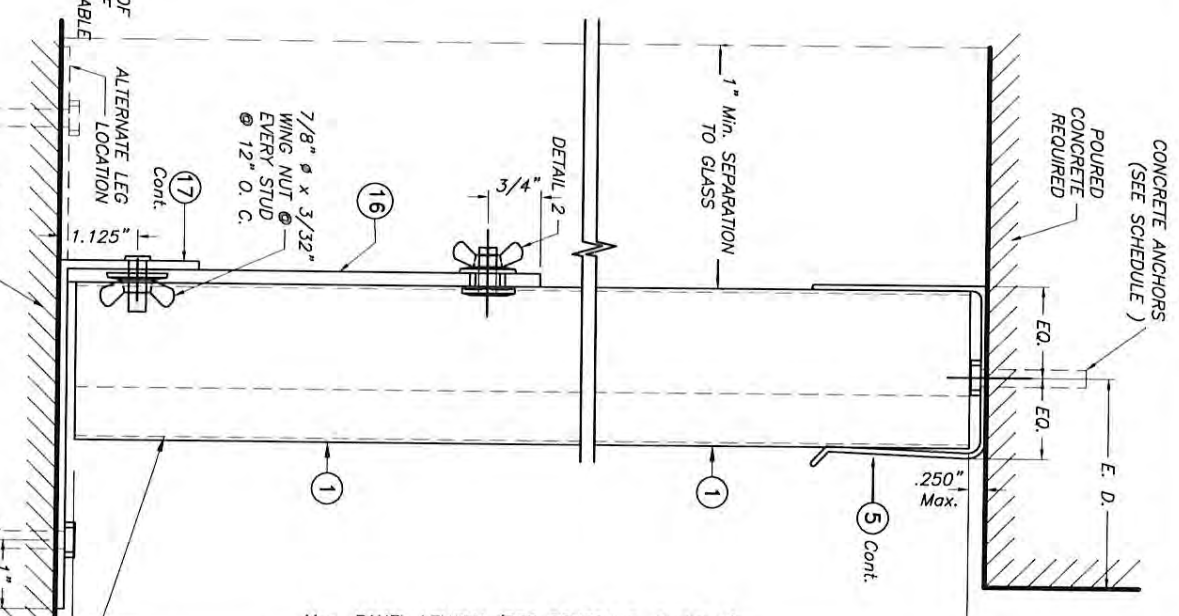
NOTE FOR COMBINATION OF SECTIONS :

FLOOR/CEILING MOUNTING SECTIONS CAN BE
COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



SECTION 12A
CEILING & FLOOR MOUNTING INSTALLATIONS
SECTIONS 12

SCALE : 3/8" = 1"



SECTION 12B
CEILING & FLOOR MOUNTING INSTALLATIONS
SECTIONS 12

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

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

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-096
DRAWING NO

07/26/17
DATE:

L.C.
DRAWN BY:

17-09

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 ₁ (ft.)		
	REGULAR TAPCONS		CRETE-FLEX SS4		ZIMAC NAILIN		CALK-IN		SOLID-SET		CF TAP-GRIP		PANELMATES		PANELMATE PLUS				410 U.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	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	N/A	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	10 (TOP)	
	12"	4"	12"	10"	N/A	N/A	12"	9"	N/A	N/A	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 1/2"	N/A	N/A	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	N/A	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	7 1/2"	N/A	N/A	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3"	N/A	3"	N/A	N/A	11B (BOTTOM)	
	11 1/2"	N/A	12"	N/A	N/A	N/A	12"	N/A	N/A	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	7 1/2"	N/A	N/A	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	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

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

ANCHORS LEGEND

ANCHOR TYPE	Min. ANCHOR SPACING
410 S.S. TAPCON, ZAMAC NAILING, CF TAP-GRIP, PANELMATE OR PANELMATE PLUS.	3.0"
CALK-IN	2.5"
SOLID-SET	3.5"
CRETE FLEX SS4	6.0"
REGULAR TAPCON IN BLOCK	4.0"
REGULAR TAPCON IN CONCRETE	3.0"

* 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				
	REGULAR TAPCON & 410 S.S. TAPCON	ZAMAC NAILIN, CRETE-FLEX SS4 & PANELMATE OR PANELMATE PLUS.	CALK-IN	SOLID-SET	CF TAP-GRIP
3"	-	.86	.75	.78	1.00
2 1/2"	-	.71	.50	-	.80
2"	-	.50	-	-	-
1 1/2"	0.35	-	-	-	-



FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)

EASTERN METAL SUPPLY, INC

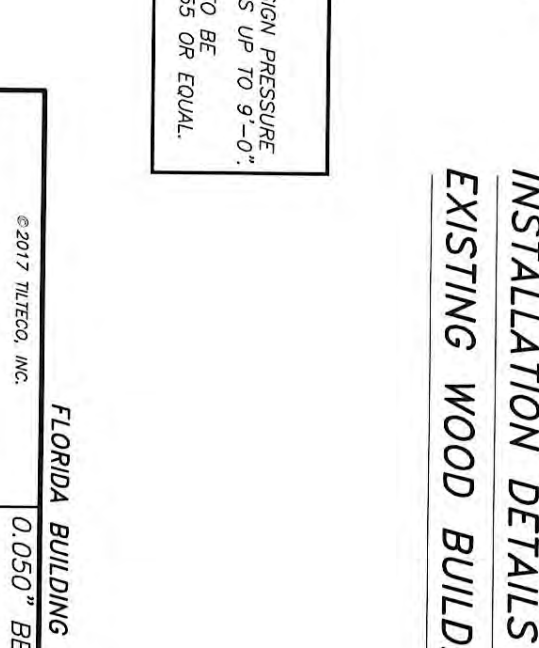
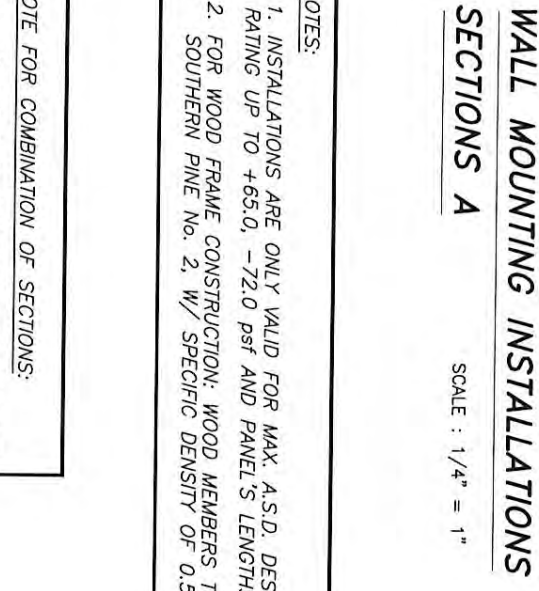
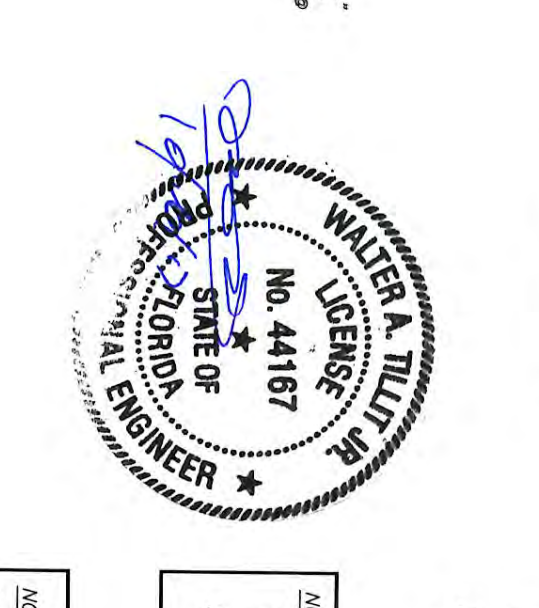
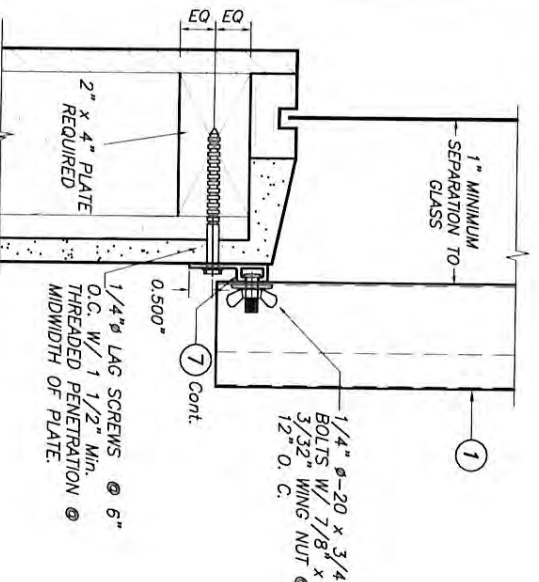
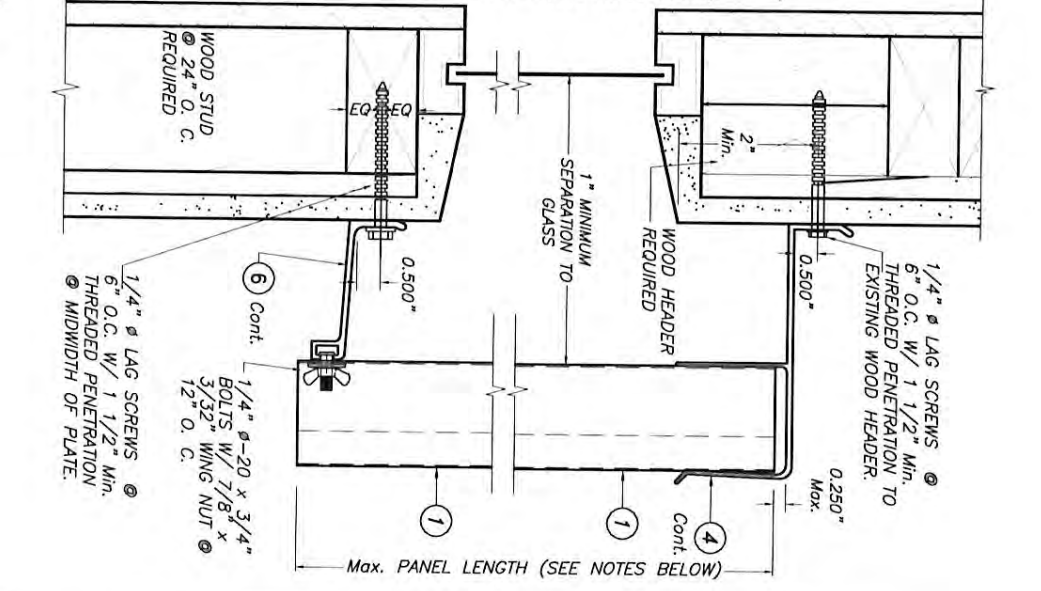
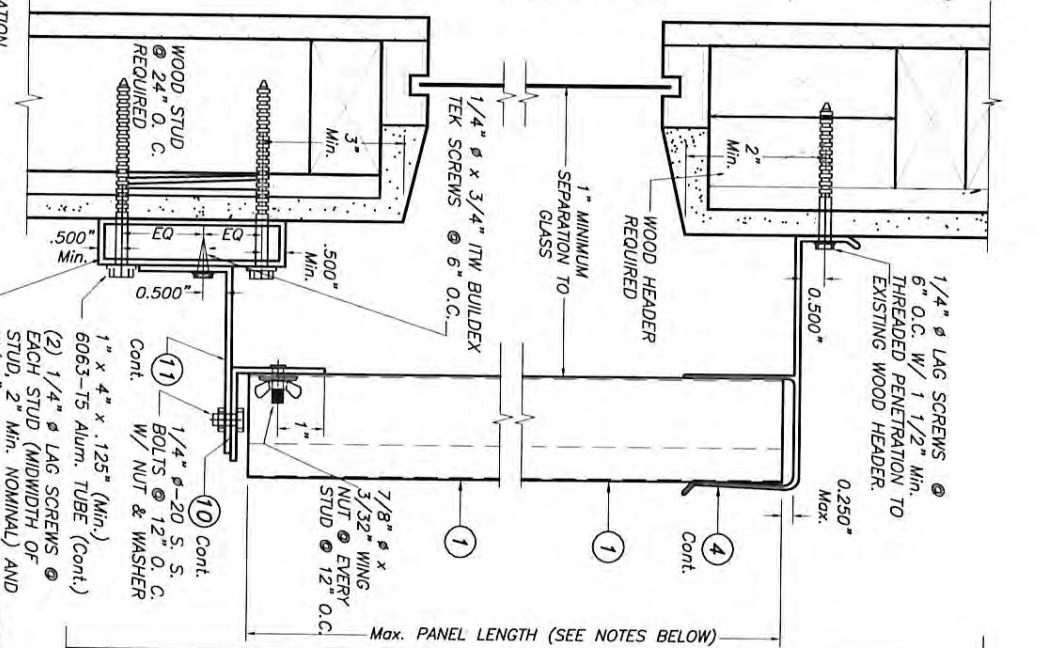
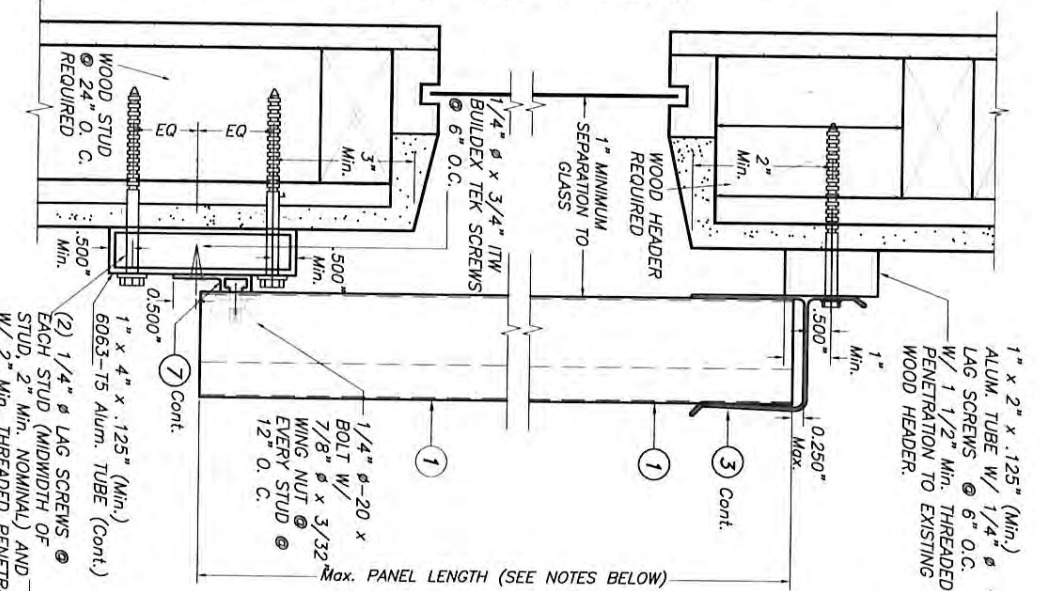
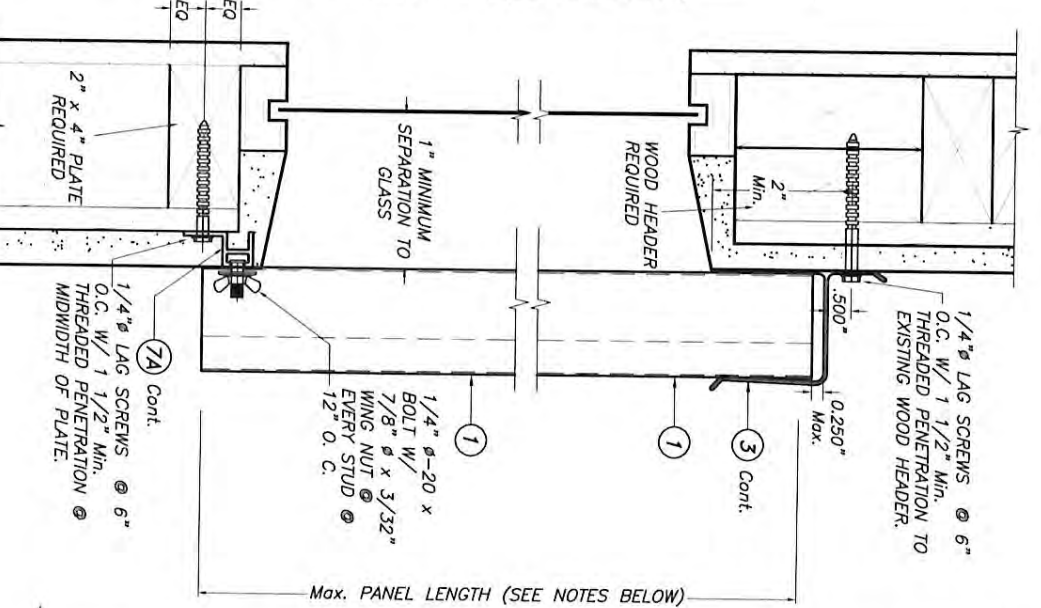
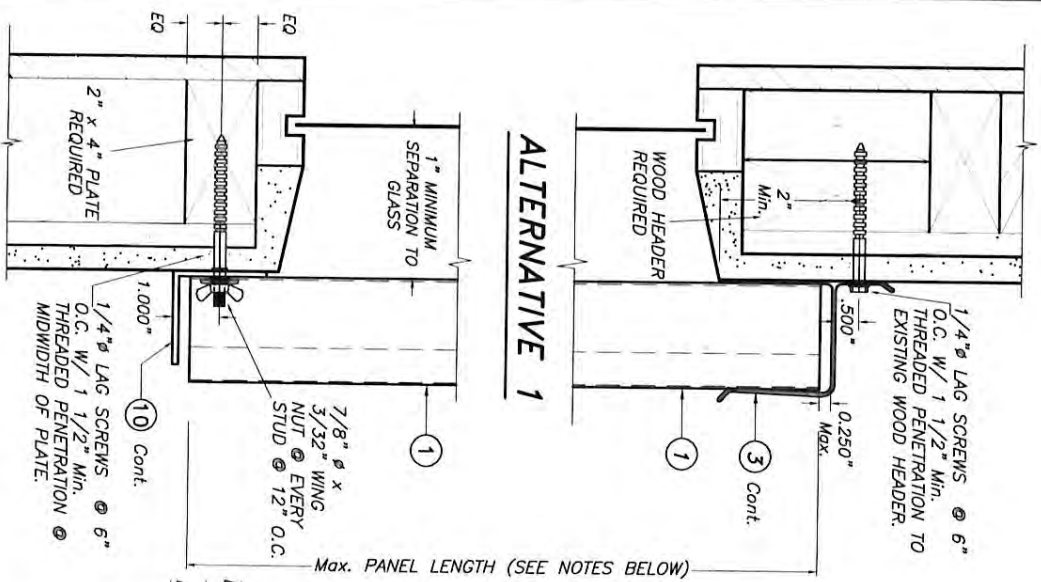
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)209-8263, FAX: (561)941-1716

L.C.
DRAWN BY:
DATE:
17-096
DRAWING NO

TILECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 38th, St., Ste. 305, WINGNA GARDENS, FL 33166
Phone : (305)971-1530 , Fax : (305)971-1531
EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA LIC. # 44167

REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 15-044	07/26/17	3		
2			4		

SHEET 10 OF 14



ALTERNATIVE 3

ALTERNATIVE 2

ALTERNATIVE 4

ALTERNATIVE 5

ALTERNATIVE 6

ALTERNATIVE 7

WALL MOUNTING INSTALLATIONS
SECTIONS A

INSTALLATION DETAILS ON
EXISTING WOOD BUILDINGS

SCALE : 1/4" = 1"

- 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.

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

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)

EASTERN METAL SUPPLY, INC

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

TILECO INC.

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

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

DRAWING NO

SHEET 11 OF 14

17-096

DATE: 07/26/17

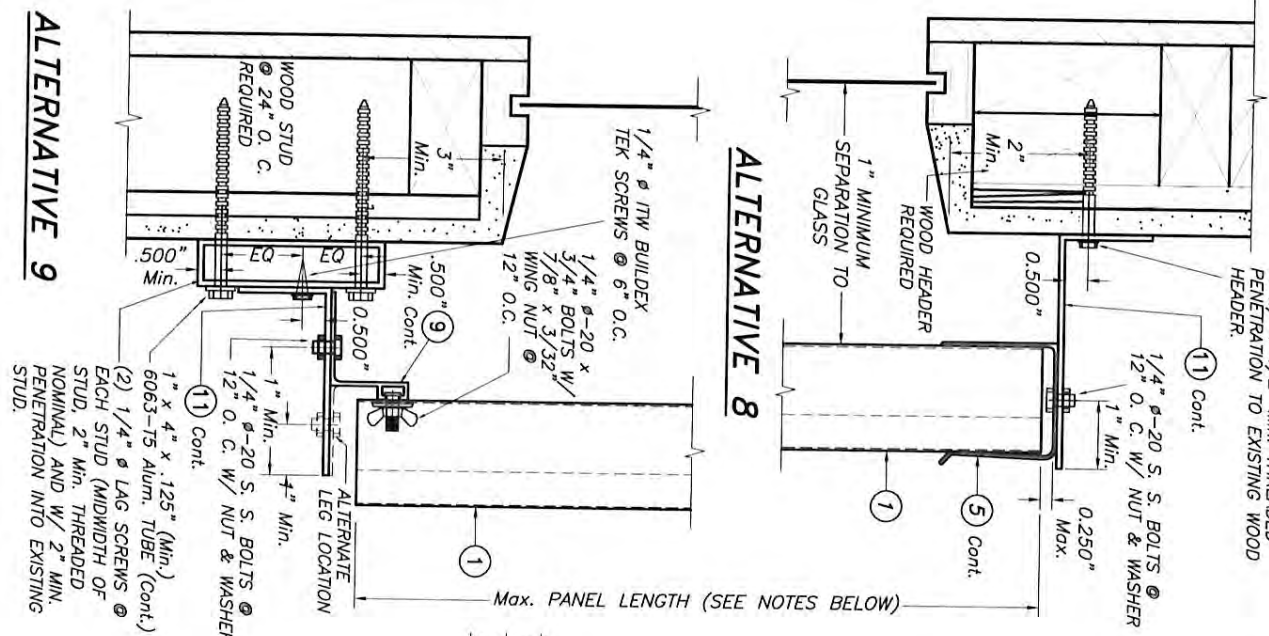
DRAWING NO

SHEET 11 OF 14

17-096

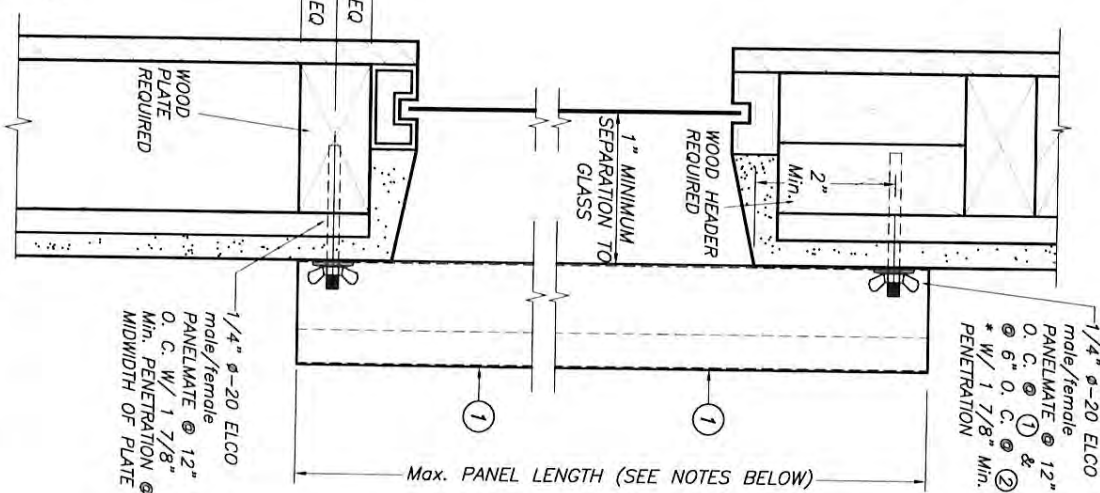
1/4" Ø LAG SCREWS @ 6" O.C. W/ 1 1/2" MIN. THREADED PENETRATION TO EXISTING WOOD HEADER.

ALTERNATIVE 8



1/4" Ø-20 ELCO male/female PANELMATE @ 12" O.C. @ 1 & 2 * W/ 1 7/8" MIN. PENETRATION

ALTERNATIVE 10



ALTERNATIVE 9

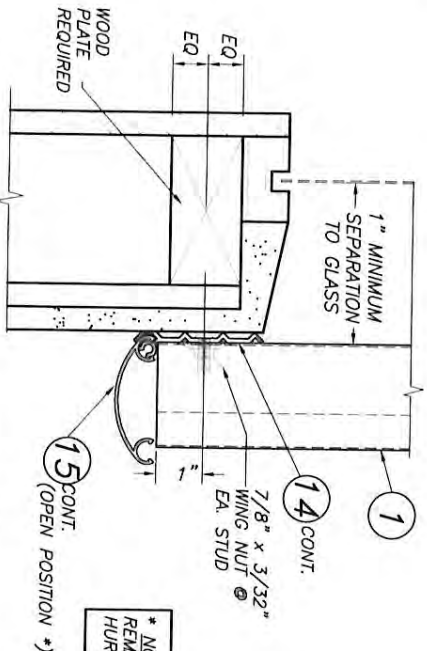
1/4" Ø-20 S.S. BOLTS @ 12" O.C. W/ 1 1/2" MIN. THREADED PENETRATION TO EXISTING WOOD STUD.
1" x 4" x 1/2" (Min.) 6063-T5 ALUM. TUBE (Cont.)
(2) 1/4" Ø LAG SCREWS @ EACH STUD (MIDWIDTH OF STUD, 2" MIN. THREADED NOMINAL) AND W/ 2" MIN. PENETRATION INTO EXISTING STUD.

WALL MOUNTING INSTALLATIONS

SECTIONS A SCALE: 1/4" = 1"

SECTION @ STUD TYP. TOP/BOTTOM

ALTERNATIVE 11

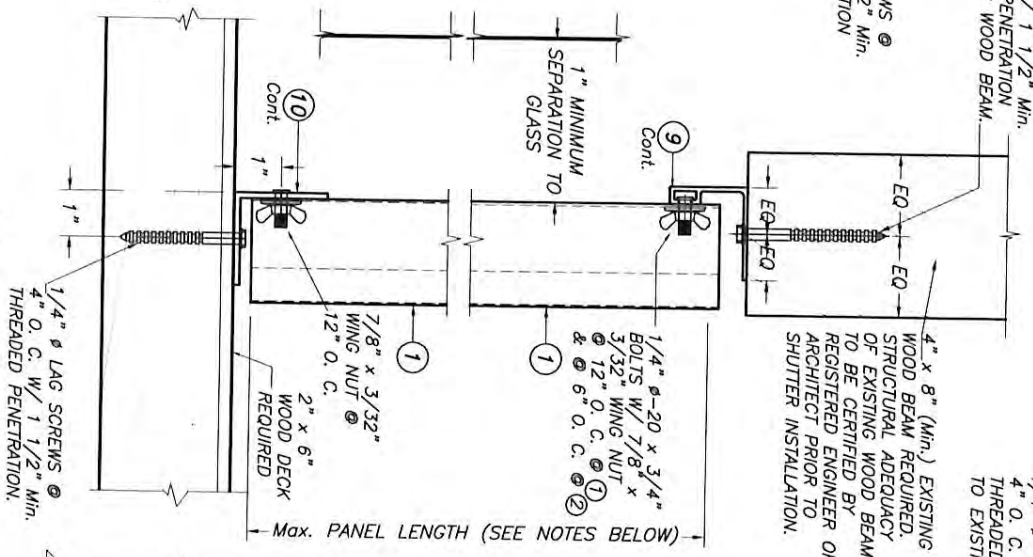


* NOTE: SNAP CAP (15) TO REMAIN CLOSED AT NON HURRICANE CONDITIONS.

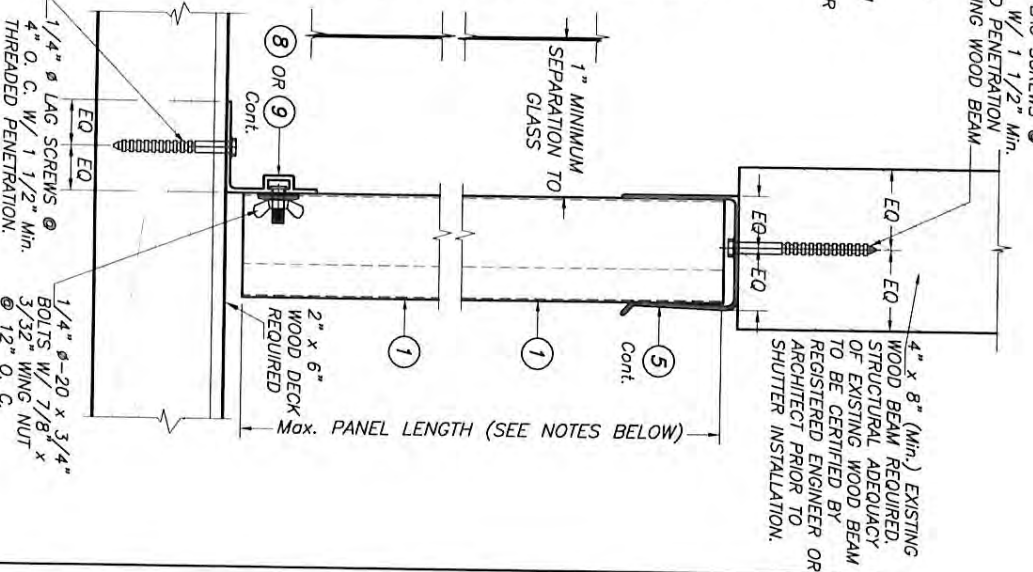
1/4" Ø LAG SCREWS @ 4" O.C. W/ 1 1/2" MIN. THREADED PENETRATION TO EXISTING WOOD BEAM.

4" x 8" (Min.) EXISTING WOOD BEAM REQUIRED. STRUCTURAL ADEQUACY OF EXISTING WOOD BEAM TO BE CERTIFIED BY REGISTERED ENGINEER OR ARCHITECT PRIOR TO SHUTTER INSTALLATION.

ALTERNATIVE 1



ALTERNATIVE 2



CEILING & FLOOR MOUNTING INSTALLATIONS

SECTIONS B

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.



© 2017 TILTECO, INC.

TILTECO inc.

TILT TESTING & ENGINEERING COMPANY
6355 N.W. 36th, St. Stn. 305 VIRGINIA GARDENS, FL 32166
Phone : (352)971-1530, Fax : (352)971-1531
EB-0006719
WALTER A. TILT 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

17-096

DATE: 07/26/17

DRAWING No

SHEET 12 OF 14

L.C.

DRAWN BY:

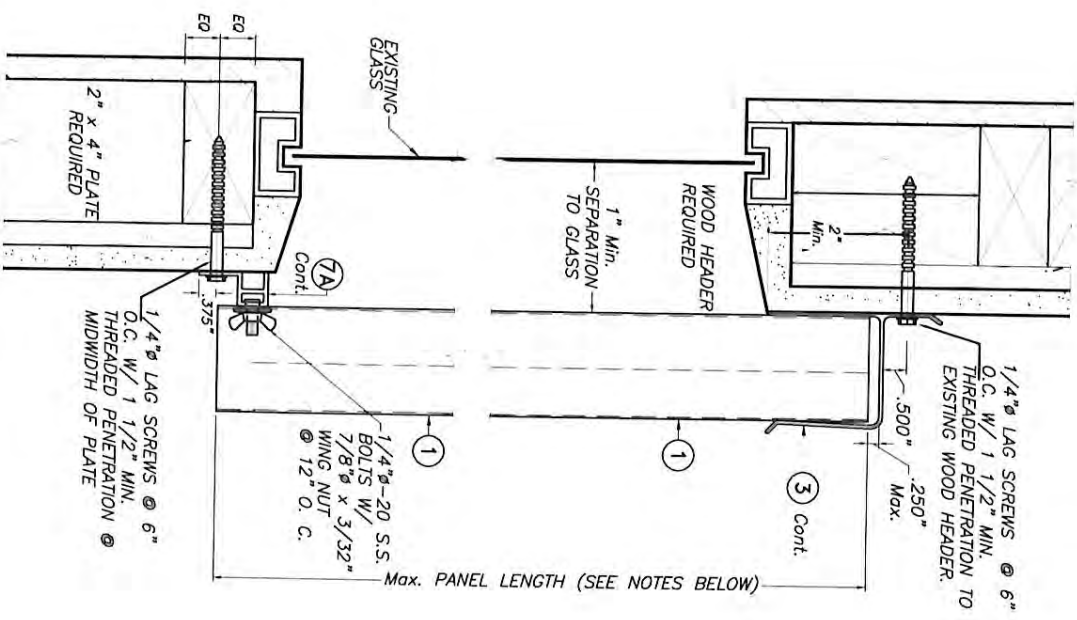
07/26/17

DATE:

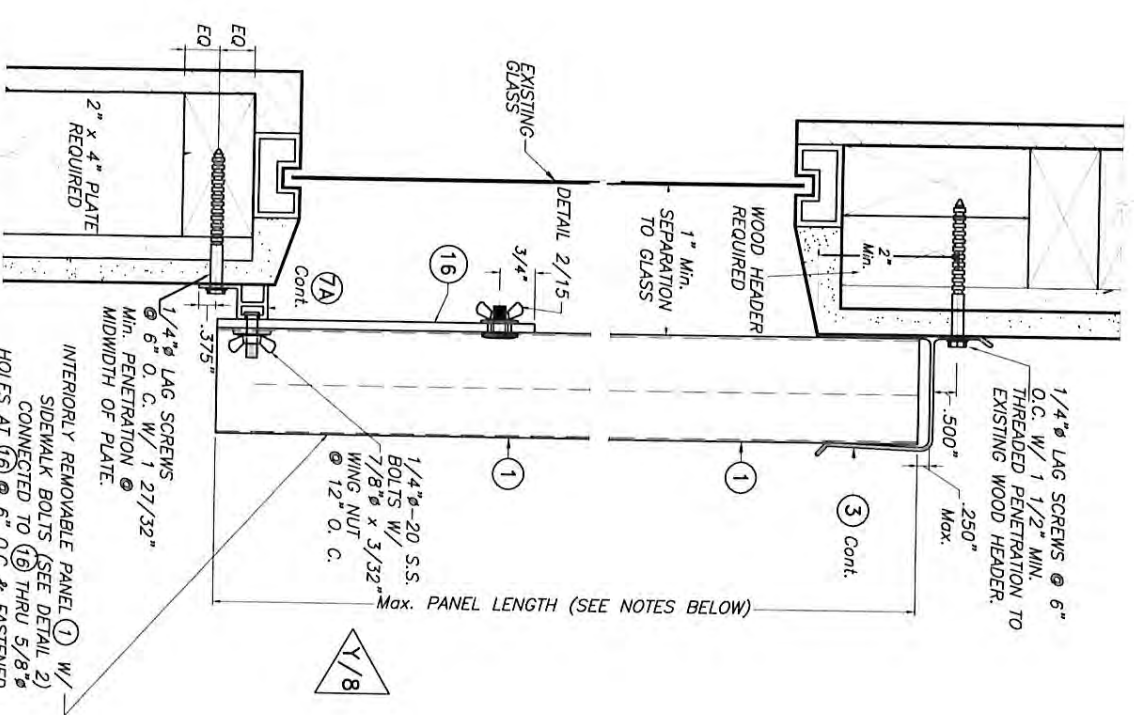
17-096

DRAWING No

SHEET 12 OF 14



ALTERNATIVE 12A *



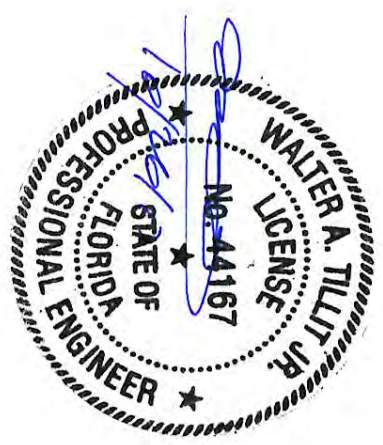
ALTERNATIVE 12B *

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



© 2017 TILTECO, INC.

TILTECO INC.

TILIT TESTING & ENGINEERING COMPANY
6355 N.W. 38th St., Ste. 305, West Palm Beach, FL 33407
Phone: (561)209-8263, Fax: (561)841-1716
EB-0006219
WALTER A. TILIT 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

REV. NO.	DESCRIPTION	DATE	REV. NO.	DESCRIPTION	DATE
1	OLD 15-044	07/26/17	3		
2			4		

L.C.

DRAWN BY:

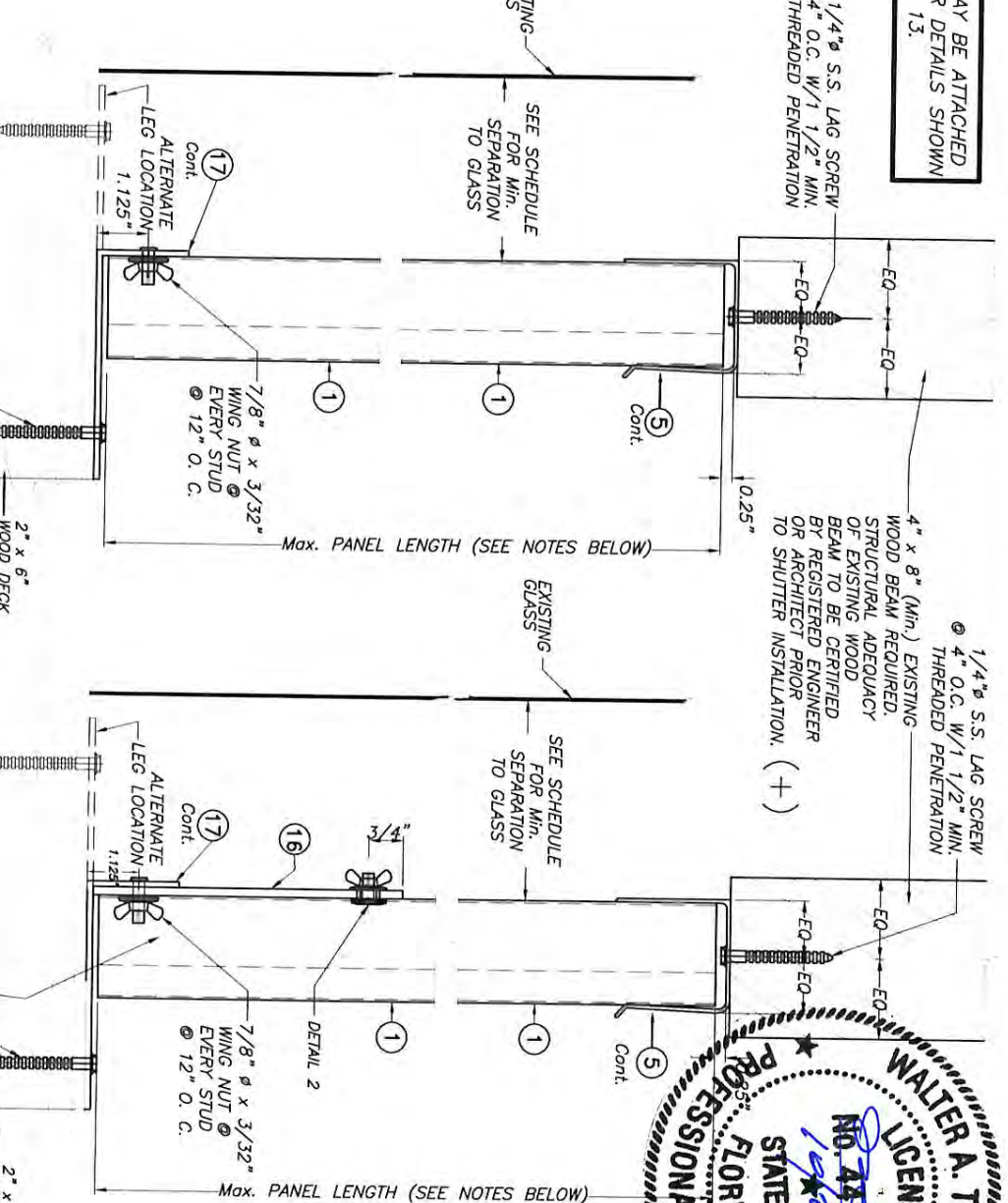
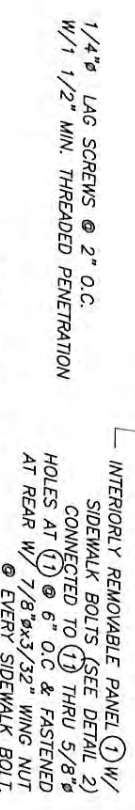
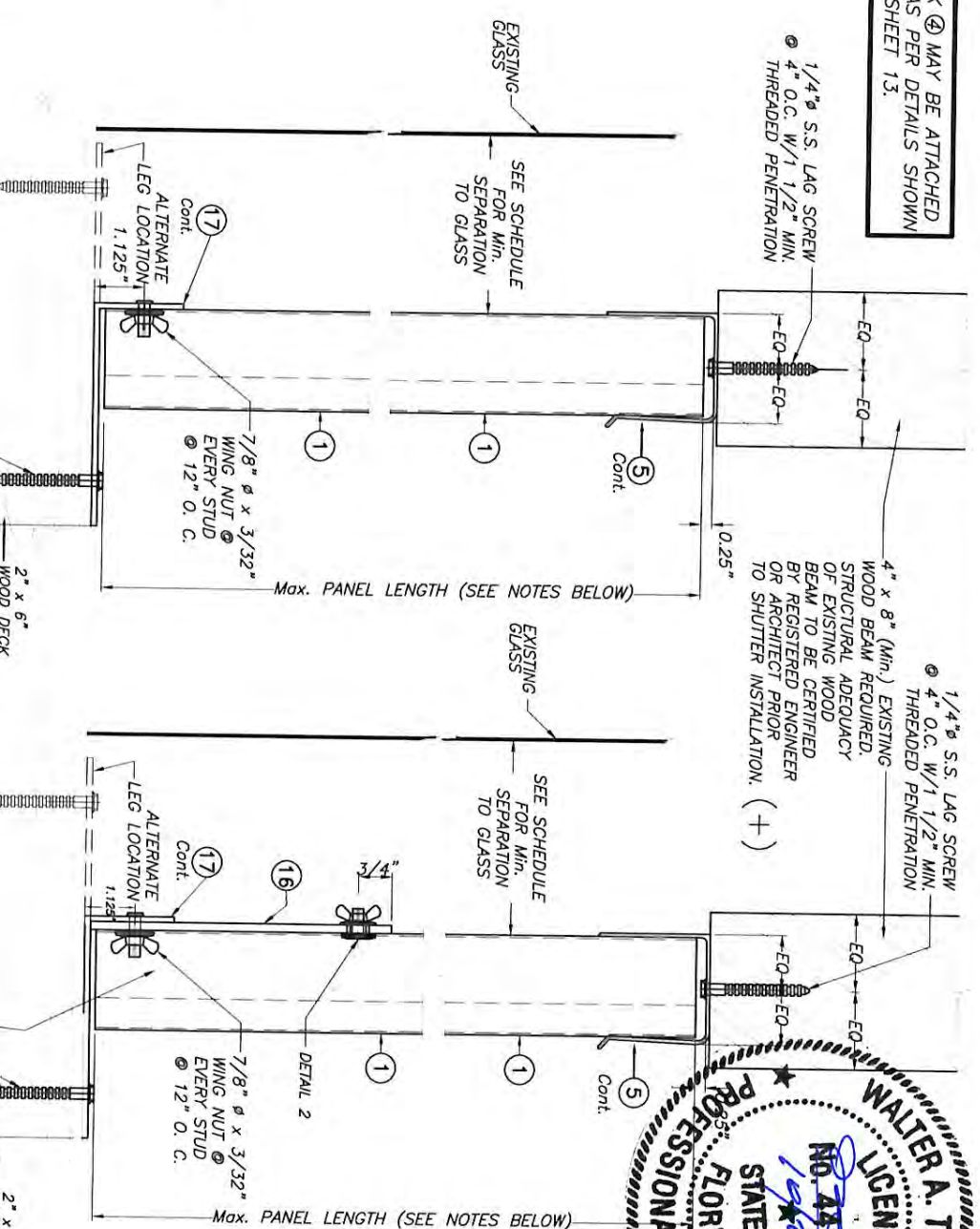
17-096

DRAWING NO

07/26/17

DATE:

SHEET 13 OF 14



ALTERNATIVE 14B

FOR MOUNTING INSTALLATIONS

SECTIONS 14

SCALE : 1/4" = 1"

NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR A.S.D. DESIGN PRESSURE RATING UP TO +65.0, -65.0 psf AND PANEL'S LENGTHS UP TO 9'-0".
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407

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

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION
---------	-------------	------	---------	-------------

1	OLD 15-044	07/26/17	3
---	------------	----------	---

2				
3				

TELECO INC.

ALLIANT TESTING & ENGINEERING COMPANY
555 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33166
Phone : (305)871-1530 Fax : (305)871-1531

EB-0006719
WALTER A. TILLOT Jr. P.E.
FLORIDA

FLORIDA LIC. # 44161