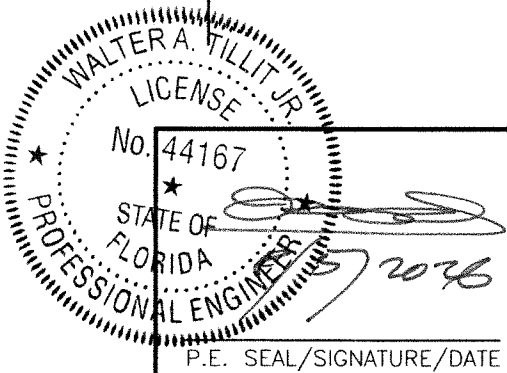


GENERAL NOTES:

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 2, 7, 9 THRU 17.
- 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 2, 7, 9 THRU 17.
- 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/AWC 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 AMERICAN TEST LAB REPORTS # 0321.01-05, # 0812.01-05 AND # 0119.01-06, PER ASTM E 1886, E 1996 AND ASTM E-330 STANDARDS, QUALIFIED FOR WIND ZONES 1, 2 AND 3; MISSILE TYPE D (BASIC PROTECTION ONLY) AND FOR INSTALLATION AT NON ESSENTIAL FACILITIES AS DEFINED BY ASTM E 1996.
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 (14) STUDDED PLATE AND (13) 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 W/ 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)
- 1/4"Ø 410 S.S TAPCON ANCHORS AS MANUFACTURED BY I.T.W./BUILDEX OR 1/4"Ø ULTRACON+ OR ULTRACON SS4.
-1/4"Ø PANEL MATES ANCHORS MALE OR TVAS AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
-1/4"Ø 304 S.S ALL THREADED RODS ANCHORS, 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./BUILDEX.
-1/4"Ø PANEL MATES ANCHORS MALE OR TVAS AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
-1/4"Ø 304 S.S ALL THREADED RODS ANCHORS, BY HILLMAN GROUP.

- NOTES:
- B.1) MINIMUM EMBEDMENT OF 1/4"Ø ANCHORS INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".
- B.2) 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 B.1) ABOVE.
- (C) TO EXISTING WOOD FRAME BUILDINGS, SEE SPECIFICATIONS ON SHEETS 12, 13, 14 & 15. ANCHORAGE SHALL BE PERFORMED BEYOND ANY FINISH MATERIAL AT WALL LIKE BRICK VENEER, STUCCO OR ANY OTHER FINISH.
- (D) 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 13 (SHEET 4 THRU 8) EXCEPT THAT HEADERS 2, 3, 3A & 4 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 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 THE 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 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

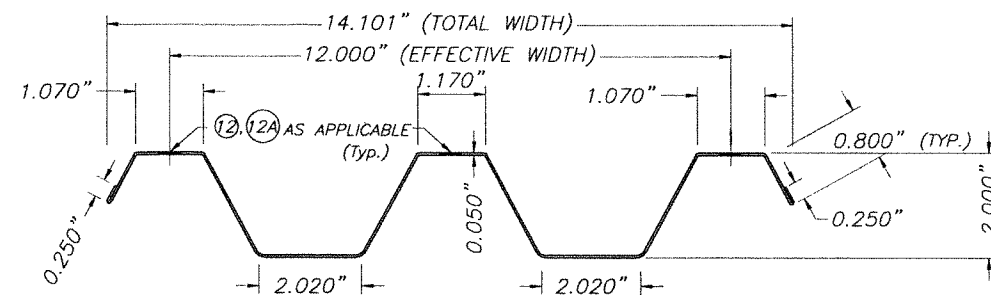


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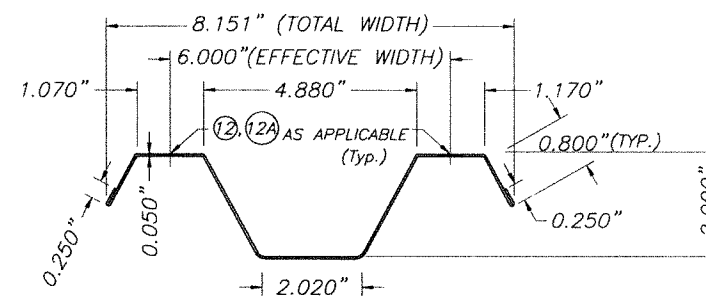
TILTECO INC.

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

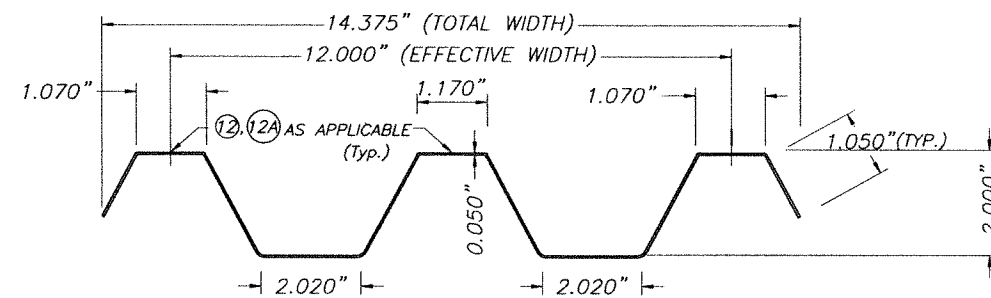
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
0.050" BERTHA ALUMINUM STORM PANEL (2.00" DEEP)				W.H. DRAWN BY:	
EASTERN METAL SUPPLY, INC				7/24/2026 DATE:	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)209-8263 FAX: (561)841-1716				26-234 DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		
					SHEET 1 OF 17



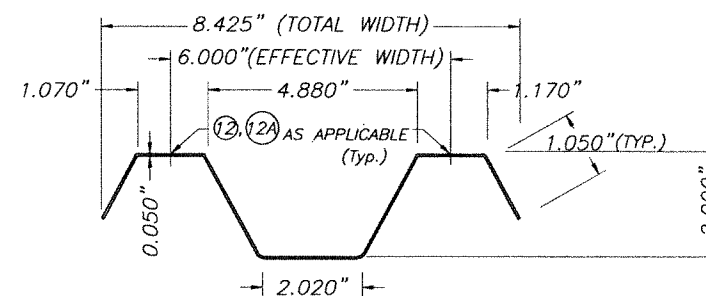
FULL PANEL W/ HEMMED EDGES



HALF PANEL W/ HEMMED EDGES



OPTIONAL FULL PANEL W/O HEMMED EDGES



OPTIONAL HALF PANEL W/O HEMMED EDGES

① STORM PANEL

SCALE : 1/4" = 1"

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

**PANELS RETAINED AT BOTH
ENDS WITH TRACKS**

⑤⑥⑦⑧⑨⑩⑪⑭

OR DIRECT MOUNTED *

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	Max. PANEL LENGTH L (ft.)
+30.0, -30.0	13'-0"
+35.0, -35.0	12'-8"
+40.0, -40.0	12'-4"
+45.0, -45.0	12'-0"
+50.0, -50.0	11'-0"
+55.0, -55.0	10'-0"
+60.0, -60.0	9'-4"
+70.0, -70.0	8'-0"
+80.0, -80.0	7'-0"
+90.0, -90.0	6'-3"
+90.0, -100.0	5'-7"
+90.0, -110.0	5'-1"
+90.0, -120.0	4'-8"
+90.0, -130.0	4'-0"

**PANELS RETAINED AT LEAST
IN ONE OF THEIR ENDS**

WITH TRACKS

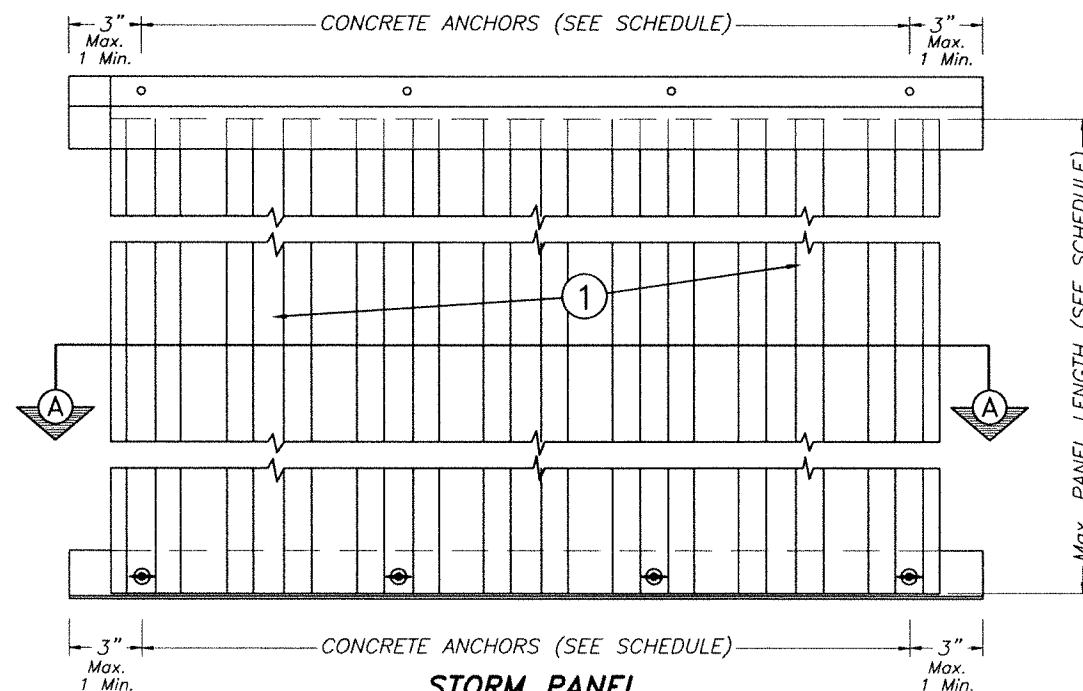
②③④ OR ④*

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	Max. PANEL LENGTH L (ft.)
+30.0, -30.0	13'-0"
+35.0, -35.0	12'-0"
+40.0, -40.0	11'-3"
+45.0, -45.0	10'-0"
+50.0, -50.0	9'-0"
+55.0, -55.0	8'-2"
+60.0, -60.0	7'-6"
+70.0, -70.0	6'-5"
+80.0, -80.0	5'-8"
+90.0, -90.0	5'-0"
+90.0, -100.0	5'-0"
+90.0, -110.0	5'-0"
+90.0, -120.0	4'-9"
+90.0, -130.0	4'-4 1/2"

*** NOTE:**

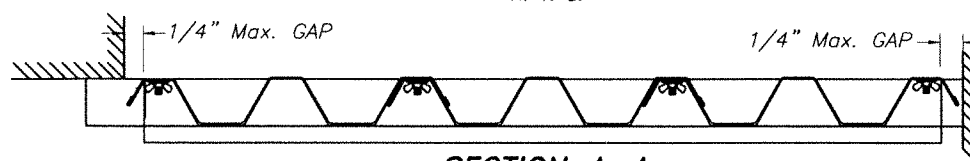
MAX. A.S.D. DESIGN PRESSURE RATING & MAXIMUM
PANEL LENGTH
FOR INTERNALLY REMOVABLE PANELS AS PER
MOUNTING INSTALLATIONS ON SHEET 7 OF 17 IS
+ 50.0, - 50.0 p.s.f. W/ 88" MAX. PANEL
LENGTH.

MAX. A.S.D. DESIGN PRESSURE RATING & MAXIMUM
PANEL LENGTH
FOR MOUNTING AS PER ALTERNATIVE #11 AND 14
ON SHEET 14A AND 15 OF 17, RESPECTIVELY, ARE
+50.0, -60.0 p.s.f. FOR 78" MAX. PANEL LENGTH,
AND +50.0, -50.0 p.s.f. FOR UP TO 108" PANEL
LENGTH.



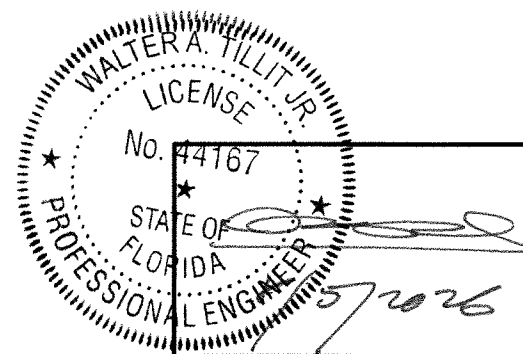
**STORM PANEL
TYPICAL ELEVATION**

N. T. S.



SECTION A-A

N. T. S.



P.E. SEAL/SIGNATURE/DATE

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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
(2.00" 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:

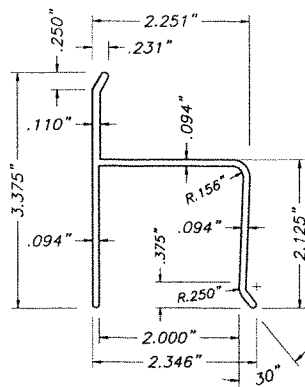
7/24/2026
DATE:

26-234

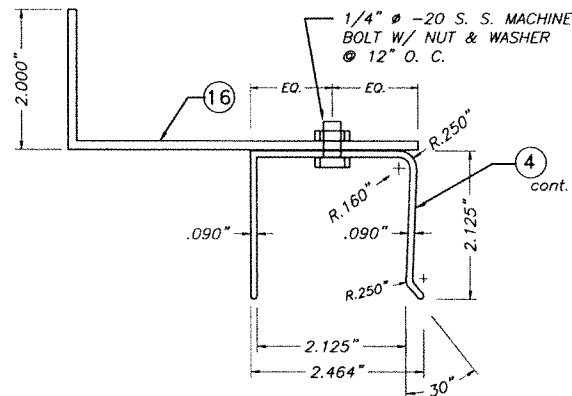
DRAWING No

SHEET 2 OF 17

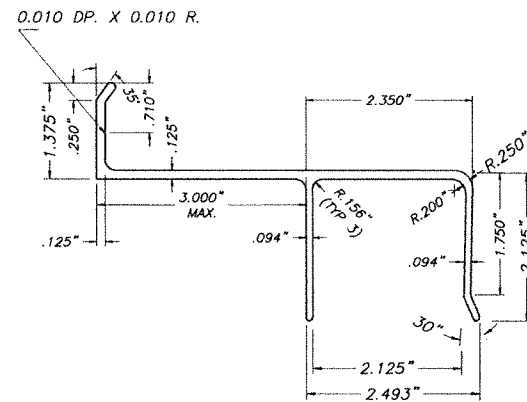
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		



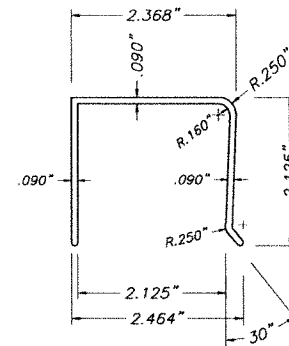
② **"h" HEADER**
SCALE: 3/8" = 1"



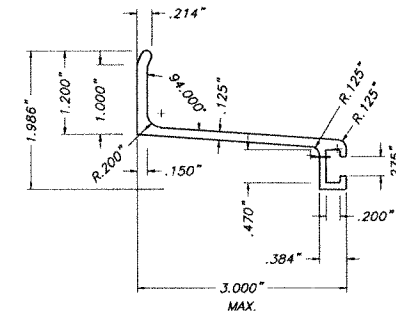
③ **3" Max. "U" BUILD OUT**
SCALE: 3/8" = 1"



③A **OPTIONAL 3" Max. "U" BUILD OUT HEADER**
SCALE: 3/8" = 1"

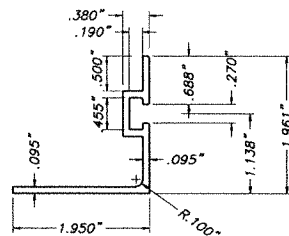
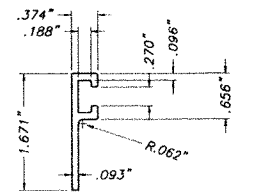


④ **"U" HEADER**
SCALE: 3/8" = 1"

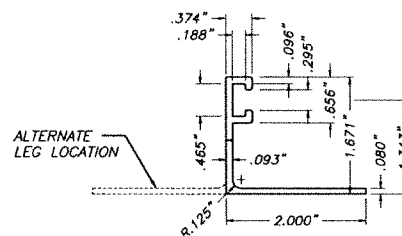


⑤ **3" MAX. ANGLE BUILD OUT BRACKET**
SCALE: 3/8" = 1"

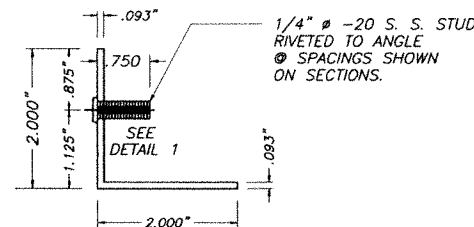
⑥ **"F" TRACK**
SCALE: 3/8" = 1"



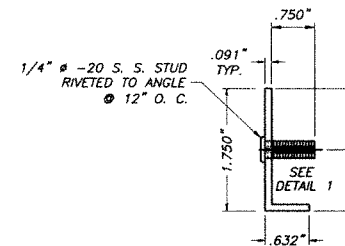
⑦ **REVERSED "F" ANGLE TRACK**
SCALE: 3/8" = 1"



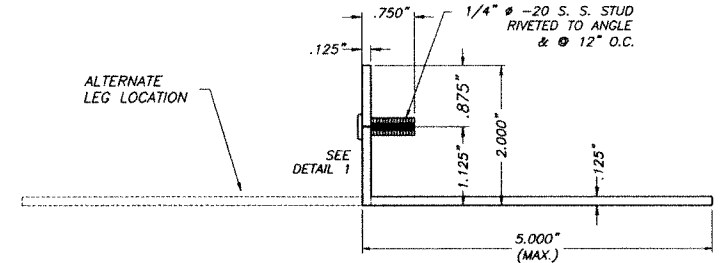
⑧ **"F" TRACK ANGLE**
SCALE: 3/8" = 1"



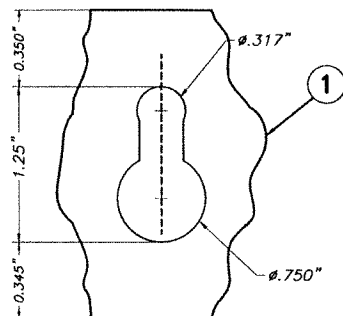
⑨ **STUDED ANGLE**
6063-T5 Alum. ALLOY
SCALE: 3/8" = 1"



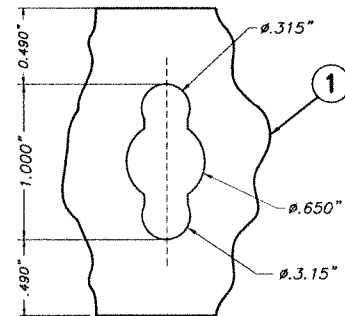
⑩ **MINI WALL 1.75"x0.632" ANGLE WITH STUD**
SCALE: 1/2" = 1"



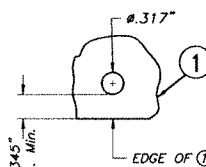
⑪ **2"x5"(MAX.)x1/8" ANGLE WITH STUD**
SCALE: 3/8" = 1"



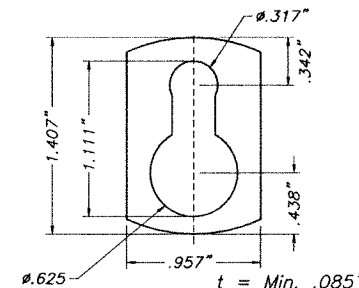
LARGE KEY HOLE (OPTION 1)
SCALE: 3/8" = 1"



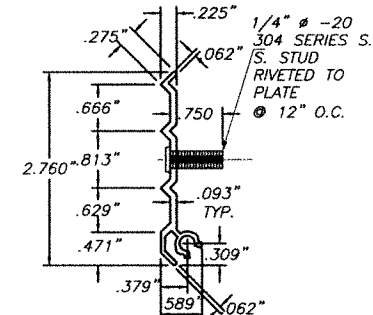
SMALL KEY HOLE (OPTION 2)
SCALE: 3/8" = 1"



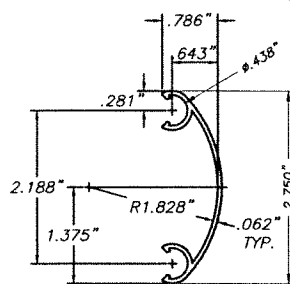
⑫A **ROUND HOLE AT PANEL**



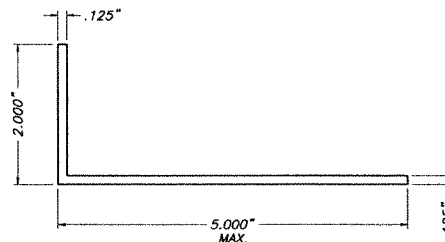
⑬ **KEY HOLE WASHER**
3105-H154 Alum. ALLOY
SCALE: 3/4" = 1"



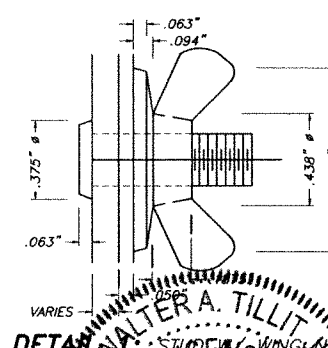
⑭ **STUDED PLATE**
6063-T6 ALLOY
SCALE: 3/8" = 1"



⑮ **SNAP CAP**
6063-T6 ALLOY
SCALE: 3/8" = 1"



⑯ **B.O. ANGLE**
SCALE: 3/4" = 1"



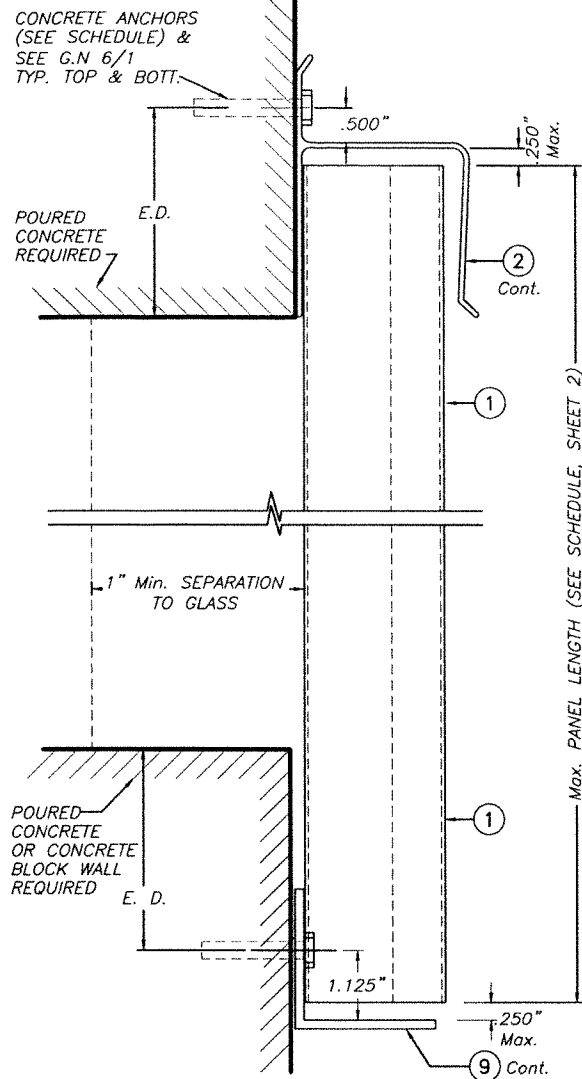
DETAIL
WALTER A. TILLIT
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

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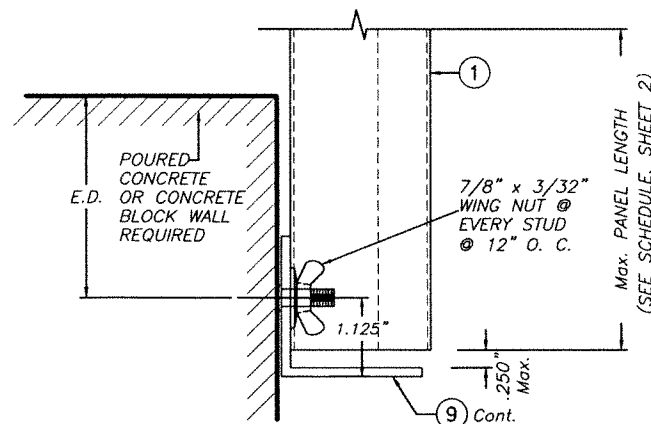
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL (2.00" DEEP)			W.H. DRAWN BY:		
EASTERN METAL SUPPLY, INC			7/24/2026		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)209-8263 FAX: (561)841-1716			DATE:		
REV. NO. DESCRIPTION DATE			26-234		
1 OLD 23-164 7/24/26			DRAWING No		
2			SHEET 3 OF 17		

COMPONENTS



SECTION @ ANCHOR

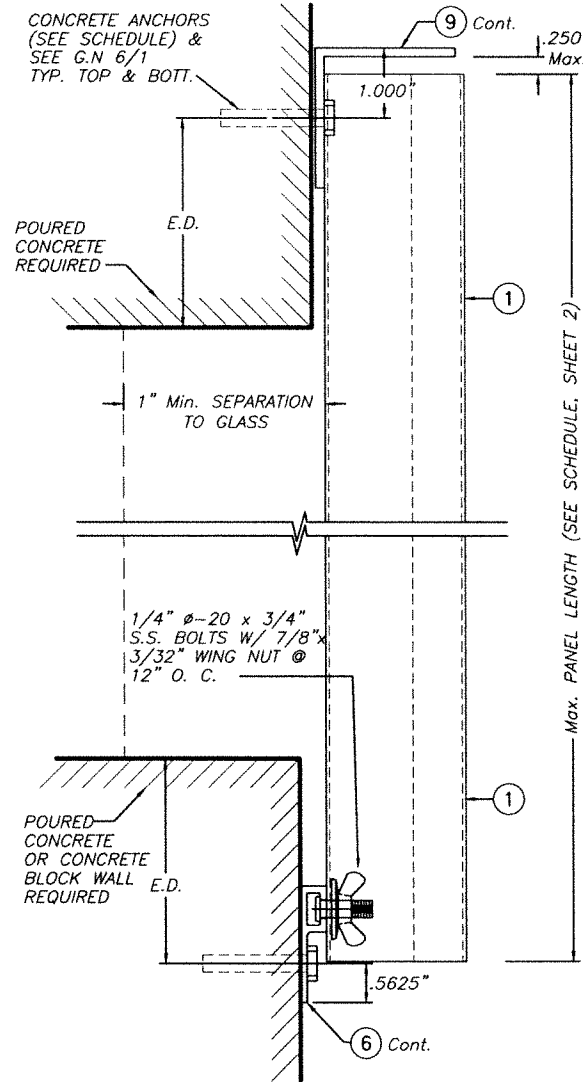


SECTION @ STUD

WALL MOUNTING INSTALLATION SECTION 1

SCALE: 1/2" = 1"

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

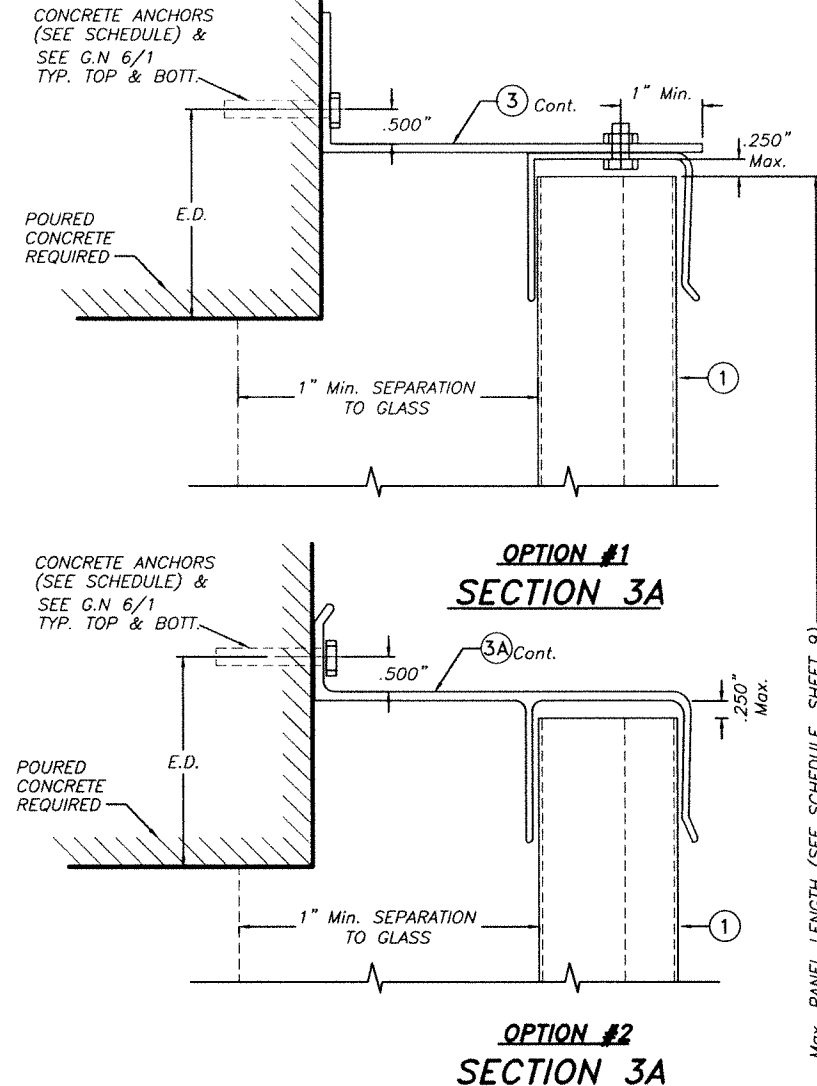


WALL MOUNTING INSTALLATION SECTION 2

SCALE: 1/2" = 1"

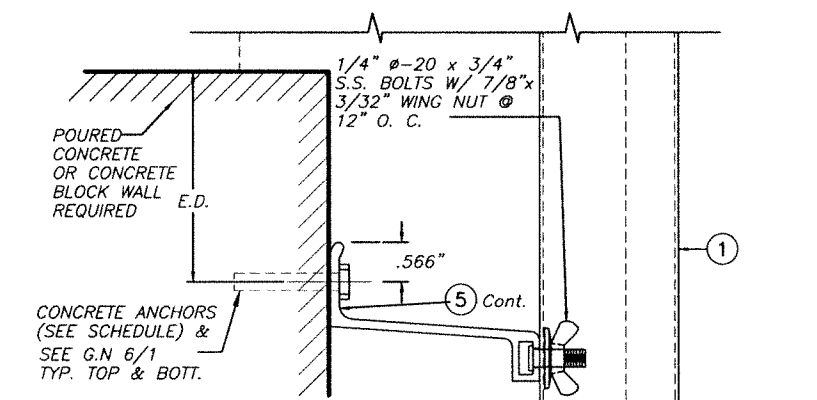
E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEETS 9 & 10 & 11)

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



OPTION #1 SECTION 3A

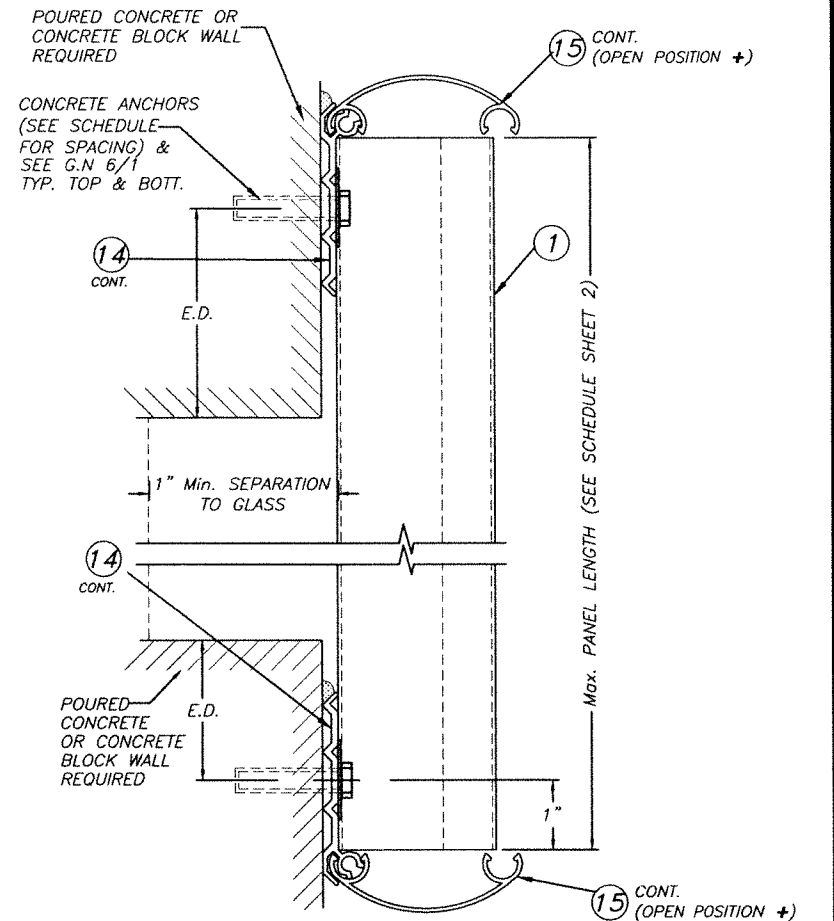
OPTION #2 SECTION 3A



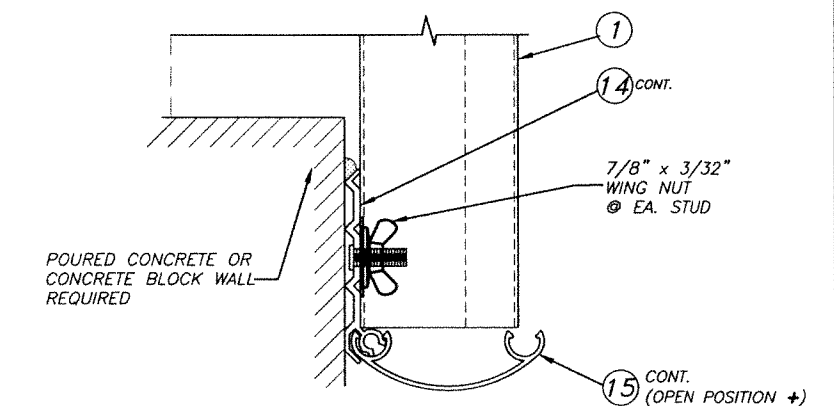
BUILD OUT INSTALLATION SECTION 3

SCALE: 1/2" = 1"

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



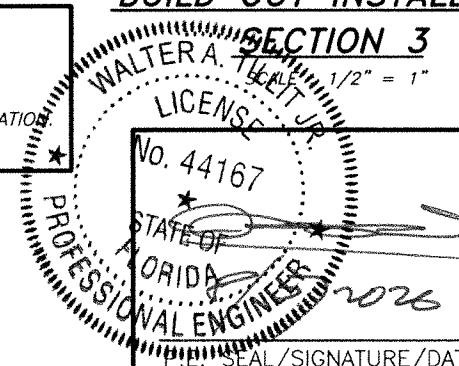
SECTION @ ANCHOR



SECTION @ STUD
TYP. TOP/BOTTOM

WALL MOUNTING INSTALLATION SECTION 4

SCALE: 1/2" = 1"



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FLORIDA Lic. 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

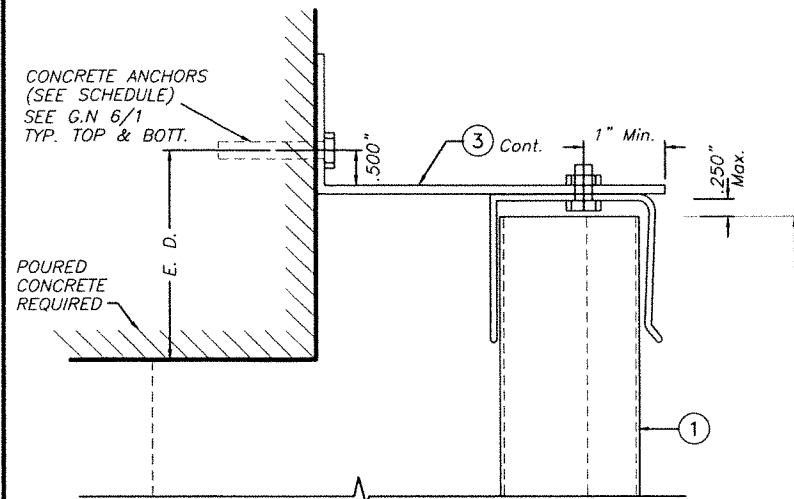
0.050" BERTHA ALUMINUM STORM PANEL
(2.00" DEEP)

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

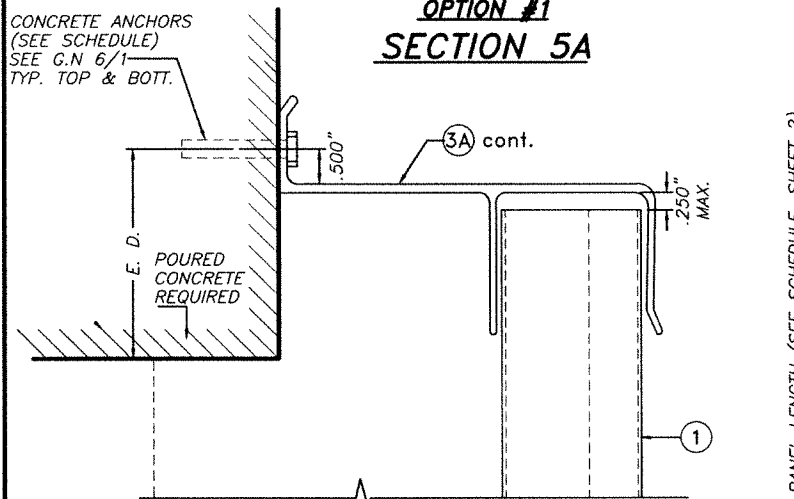
W.H.
DRAWN BY:
7/24/2026
DATE:
26-234
DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		

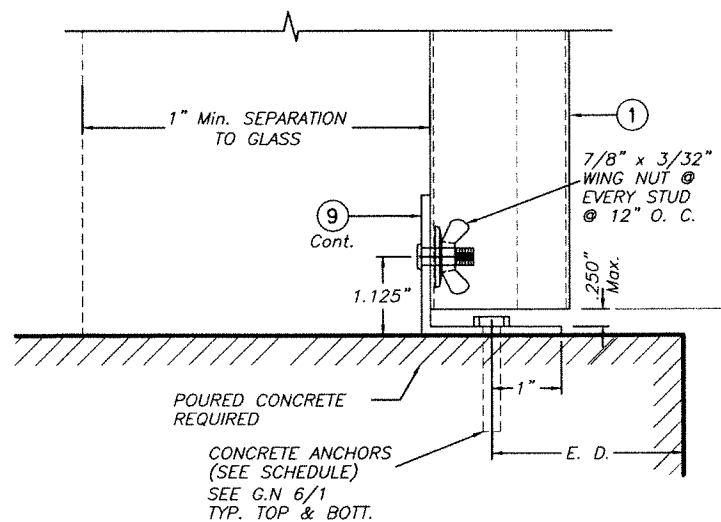
SHEET 4 OF 17



**OPTION #1
SECTION 5A**

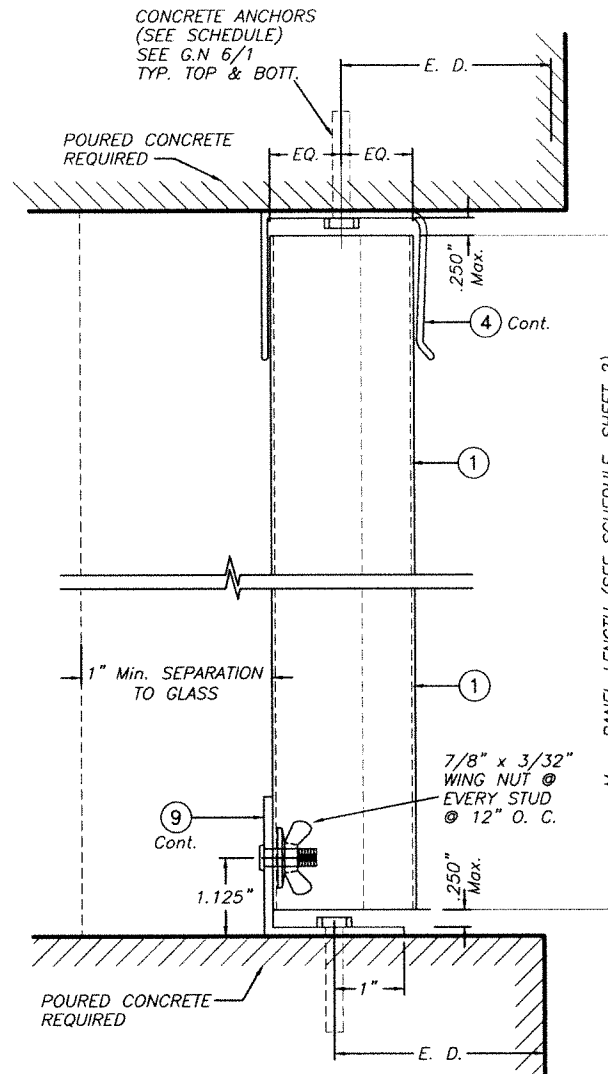


**OPTION #2
SECTION 5A**



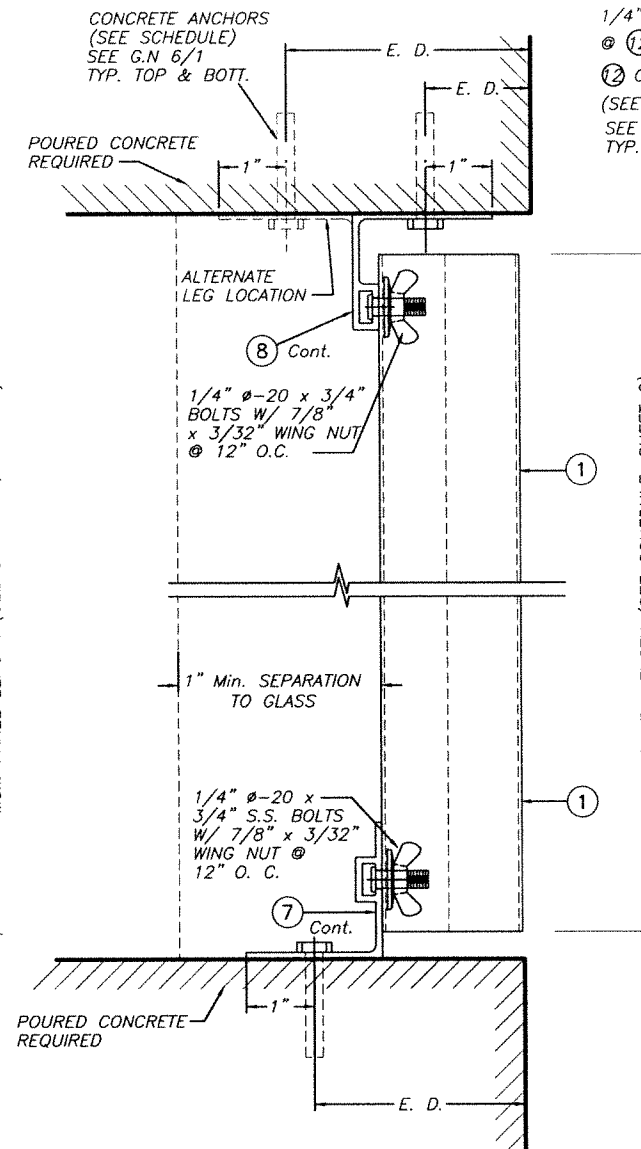
**BUILD-OUT & FLOOR MOUNTING
INSTALLATION - SECTION 5**

SCALE : 1/2" = 1"



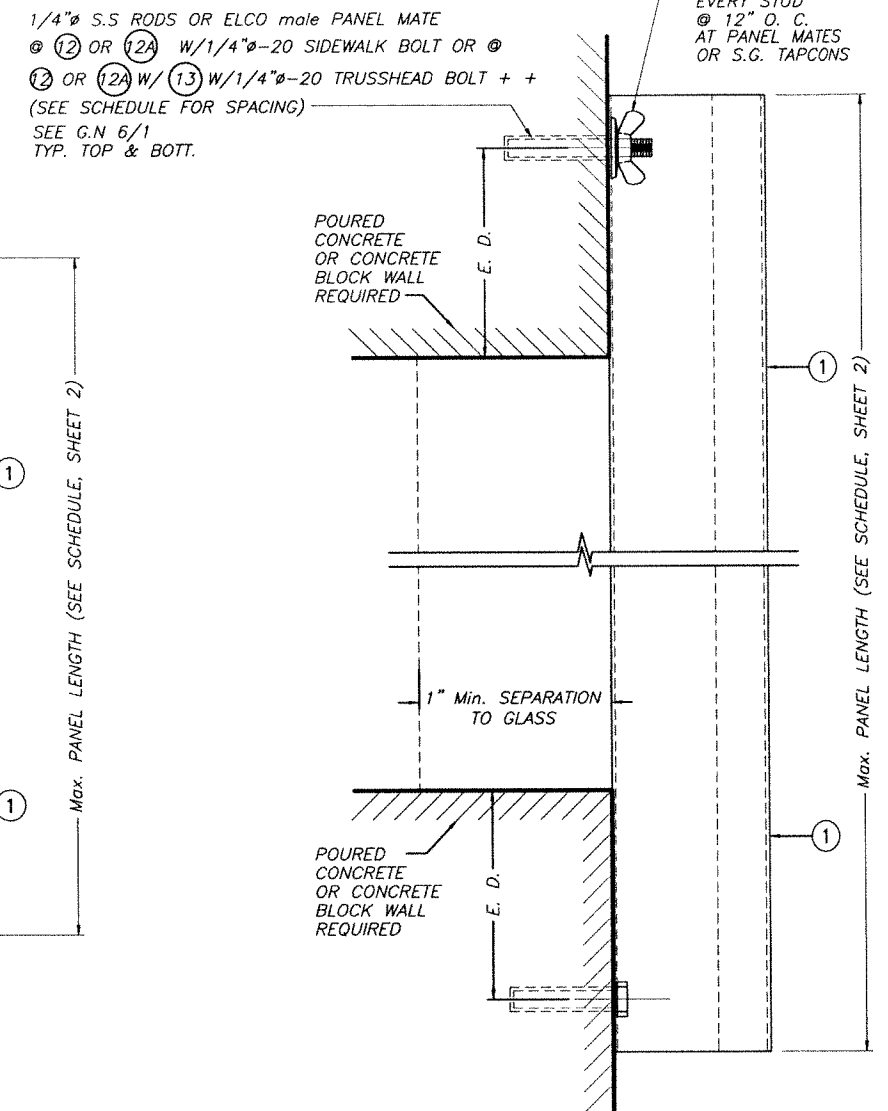
**CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 6**

SCALE : 1/2" = 1"



**CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 7**

SCALE : 1/2" = 1"



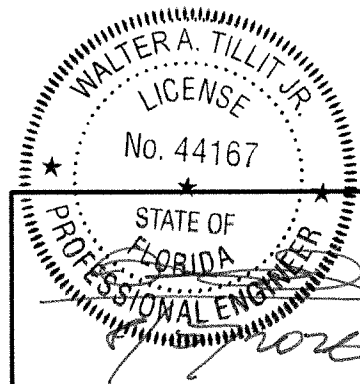
**DIRECT WALL MOUNTING INSTALLATION (D. M.)
- SECTION 8**

SCALE : 1/2" = 1"

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEETS 9 & 10 & 11)

NOTE FOR COMBINATION OF SECTIONS :

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



P.E. SEAL/SIGNATURE/DATE

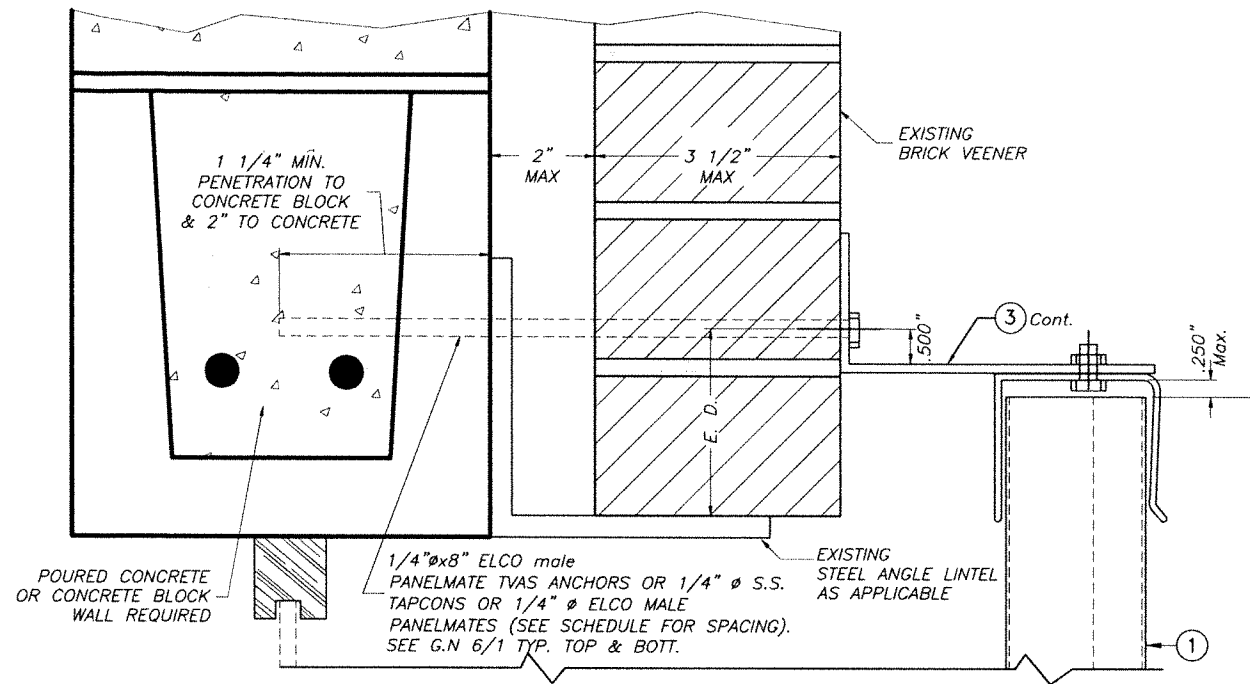
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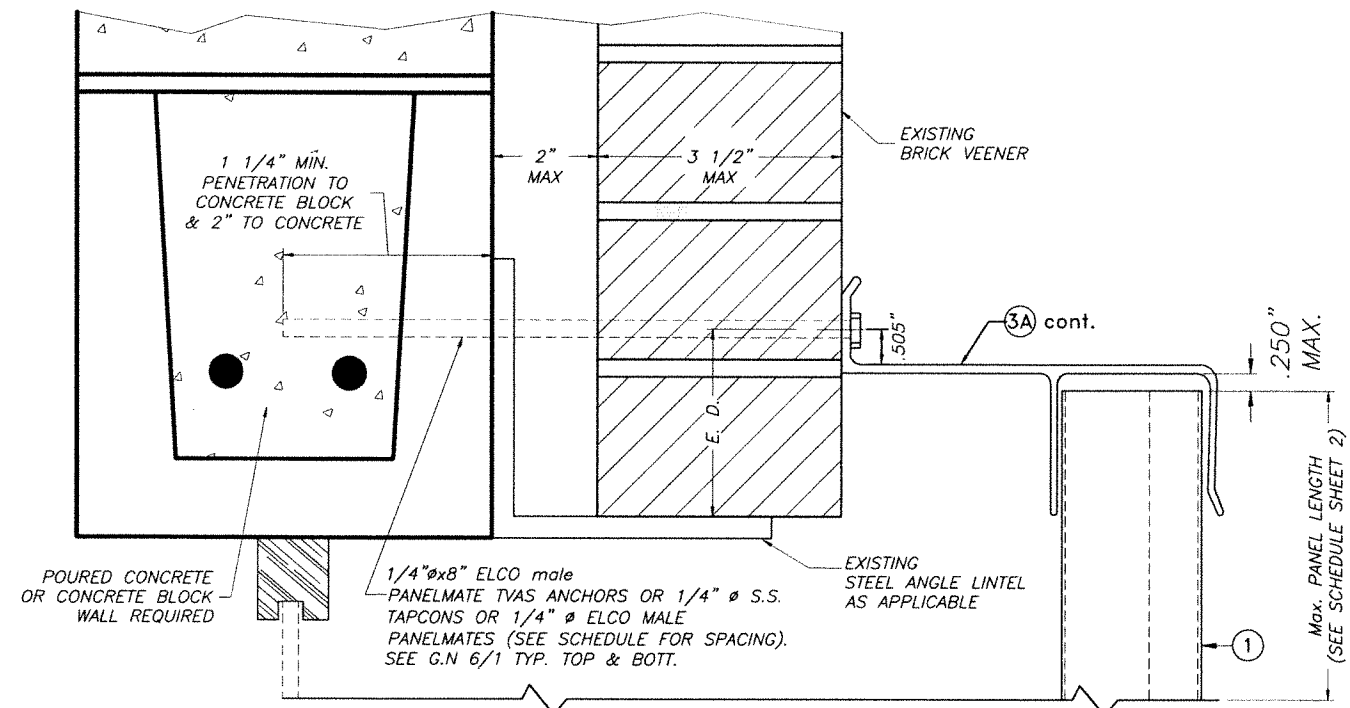
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 . Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

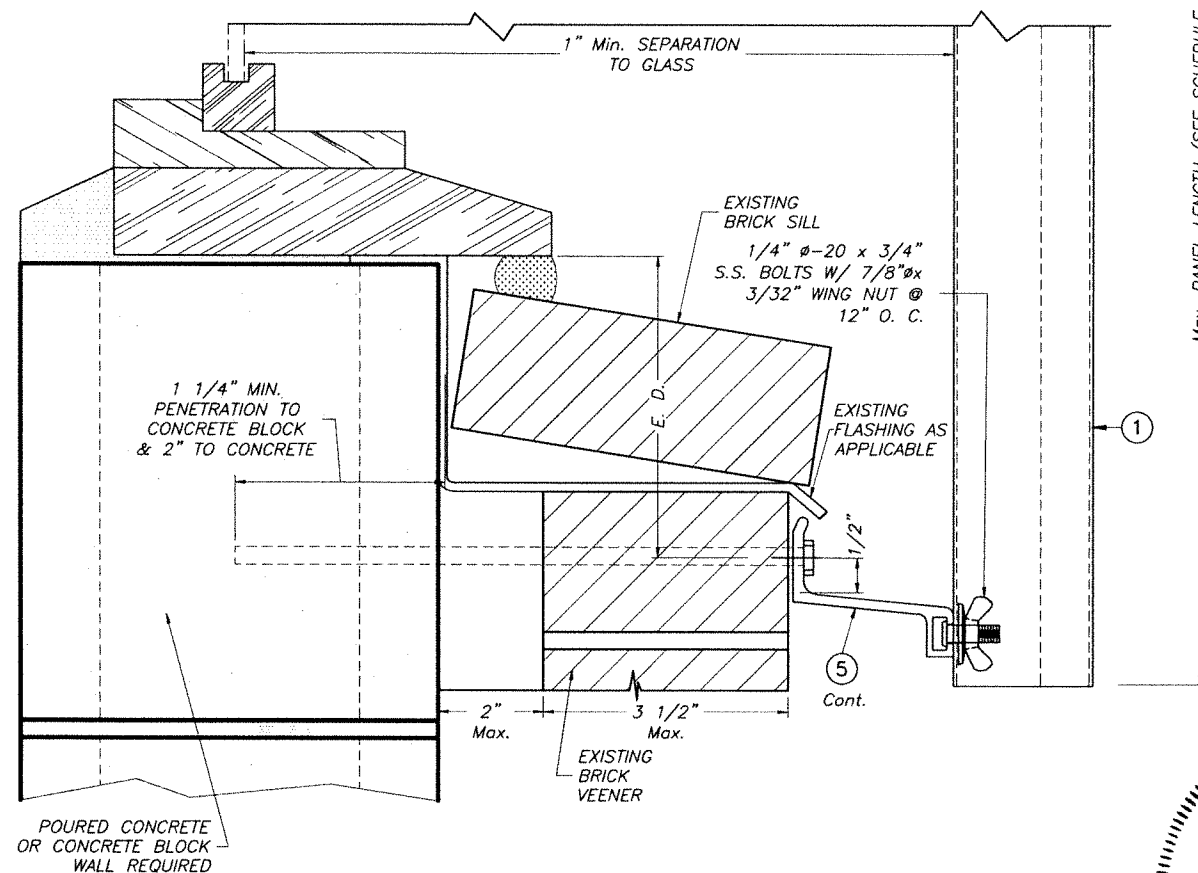
0.050" BERTHA ALUMINUM STORM PANEL (2.00" DEEP)			W.H. DRAWN BY:		
EASTERN METAL SUPPLY, INC			7/24/2026 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)209-8263 FAX: (561)841-1716			26-234 DRAWING No		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		
			SHEET 5 OF 17		



OPTION #1
SECTION 11A



OPTION #2
SECTION 11A



BUILD OUT INSTALLATION
SECTION 11

SCALE : 3/8" = 1"

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON SHEETS 9 & 10 & 11)

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

++ SIDE WALK BOLTS ARE 3/4" Ø x 3/32" THICK HEAD MACHINE S.S. SCREW W/LENGTH AS PER NOTES A.2 & B.2 (SHEET 1)
++ TRUSS HEAD BOLTS ARE 1/2" Ø x 1/8" THICK HEAD MACHINE S.S. SCREW W/LENGTH AS PER NOTES A.2 & B.2 (SHEET 1)

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

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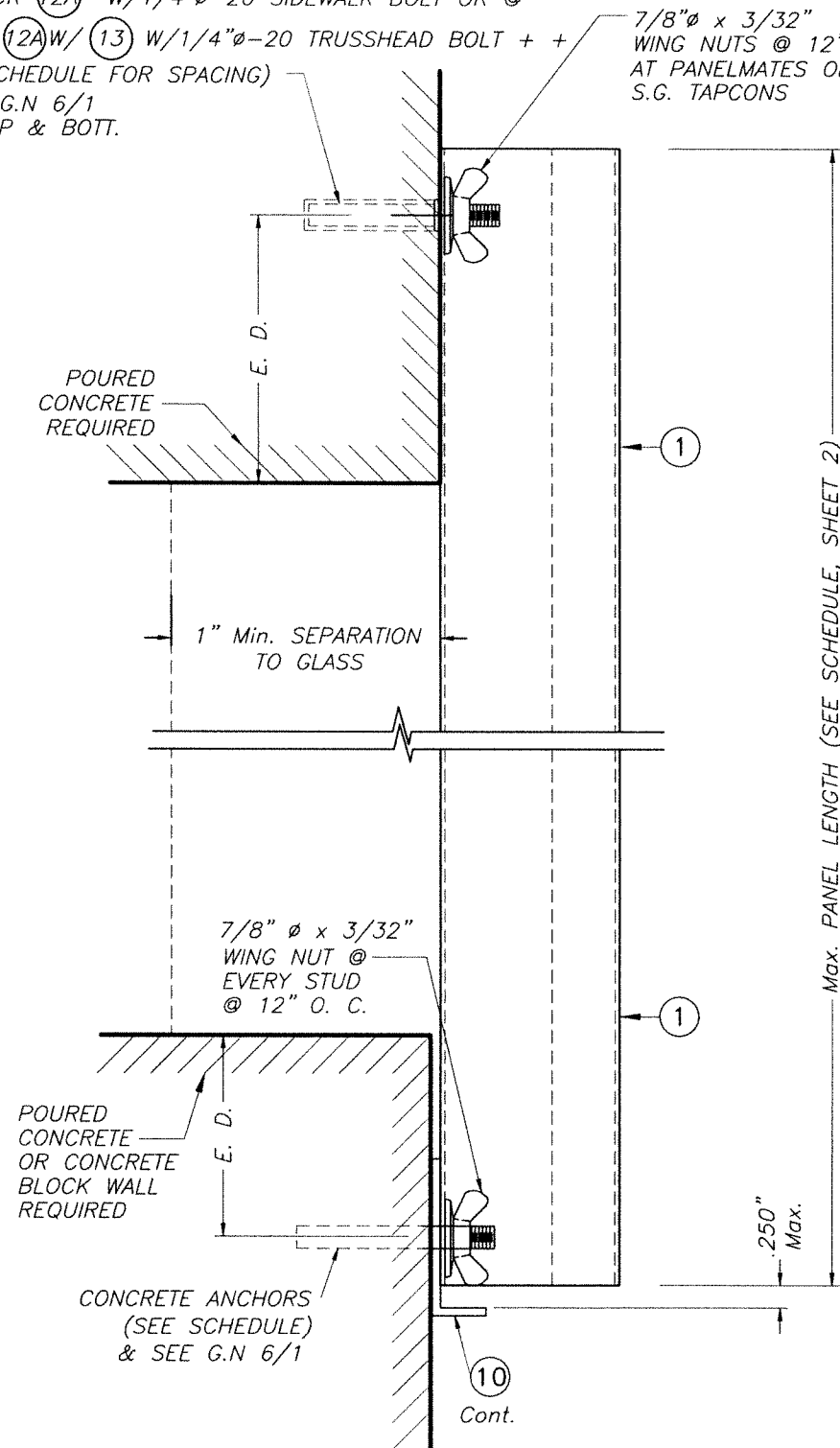
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL
(2.00" 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 23-164	7/24/26	3		
2			4		

W.H.
DRAWN BY:
7/24/2026
DATE:
26-234
DRAWING No
SHEET 6A OF 17

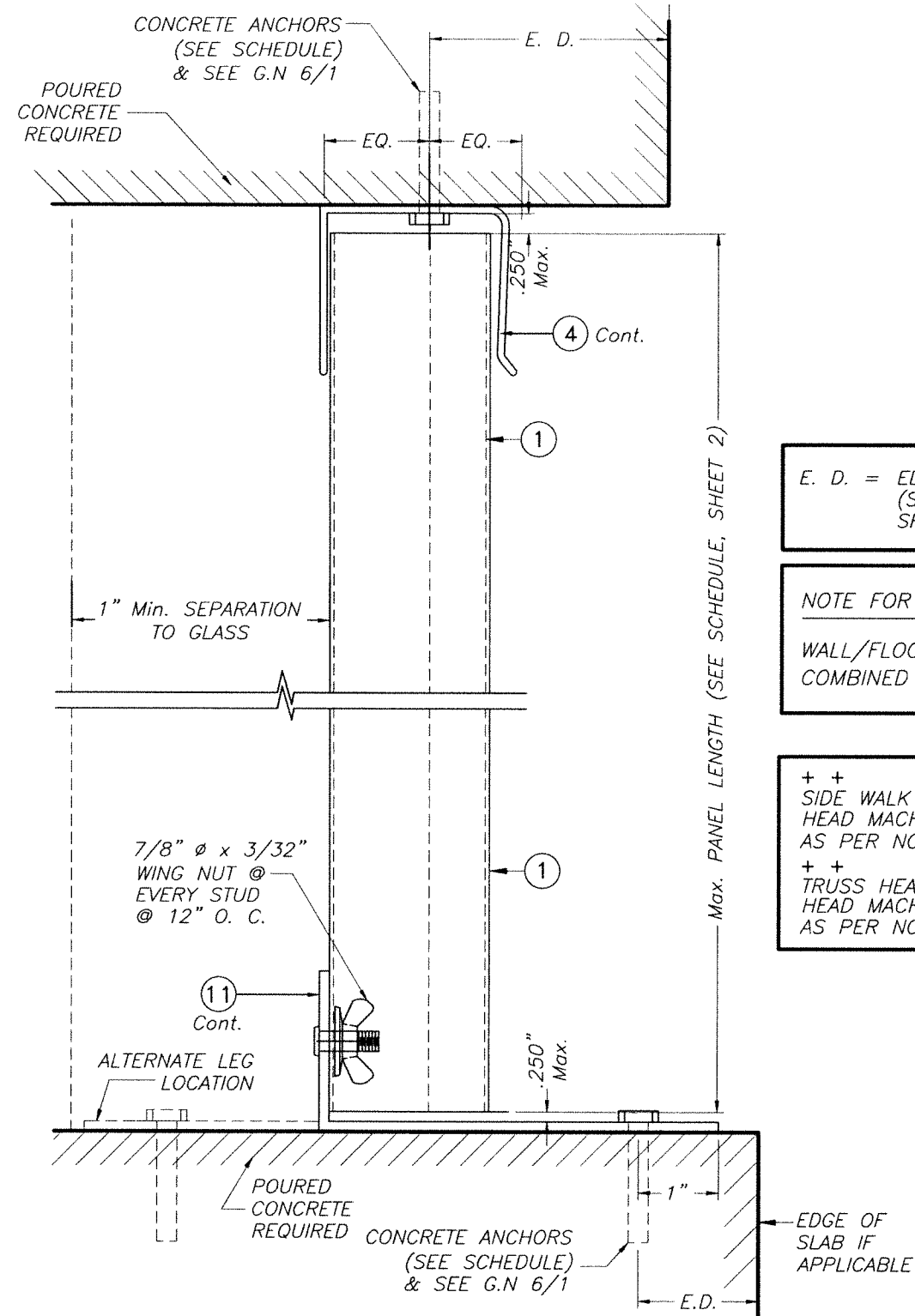
1/4" S.S. RODS OR ELCO male PANELMATE
 @ 12 OR 12A W/1/4"-20 SIDEWALK BOLT OR @
 12 OR 12A W/ 13 W/1/4"-20 TRUSSHEAD BOLT + +
 (SEE SCHEDULE FOR SPACING)
 & SEE G.N 6/1
 TYP. TOP & BOT.



WALL MOUNTING INSTALLATION

SECTION 9

SCALE : 1/2" = 1"

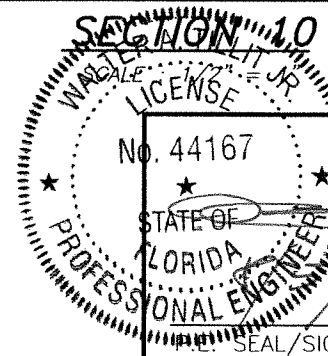


E. D. = EDGE DISTANCE
 (SEE SCHEDULE ON
 SHEETS 9 & 10 & 11)

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

+ +
 SIDE WALK BOLTS ARE 3/4" x 3/32" THICK
 HEAD MACHINE S.S. SCREW W/LENGTH
 AS PER NOTES A.2 & B.2 (SHEET 1)
 + +
 TRUSS HEAD BOLTS ARE 1/2" x 1/8" THICK
 HEAD MACHINE S.S. SCREW W/LENGTH
 AS PER NOTES A.2 & B.2 (SHEET 1)

CEILING & FLOOR MOUNTING INSTALLATION



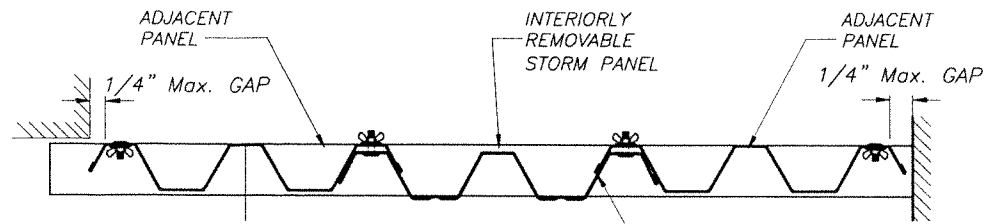
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

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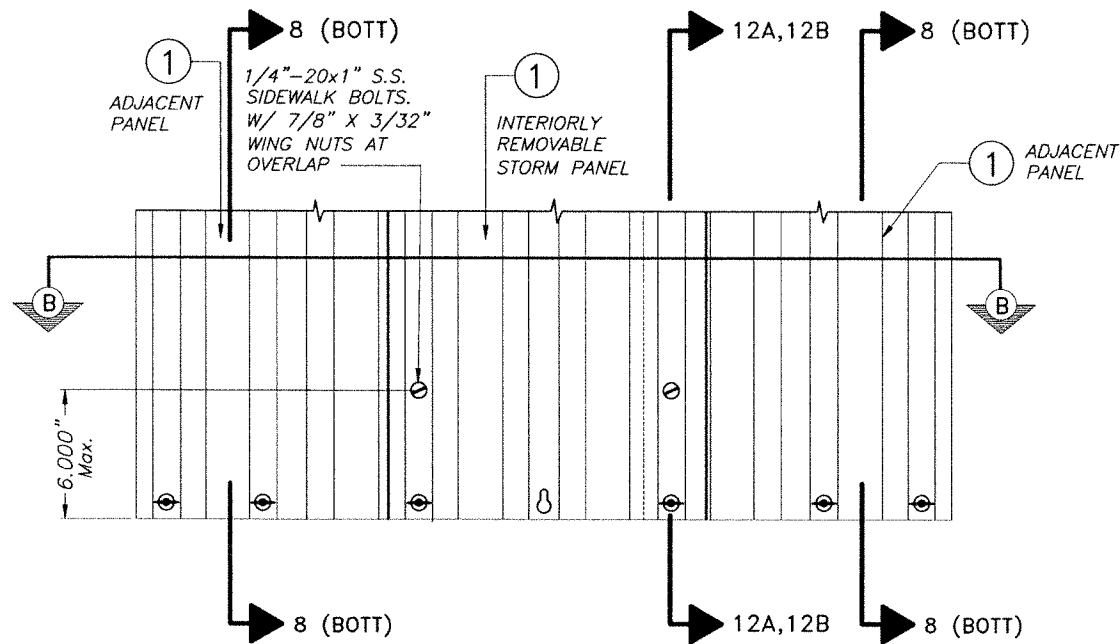
TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
 Phone : (305)871-1530 . Fax : (305)871-1531
 CA-0006719
 WALTER A. TILLIT Jr., P.E.
 FLORIDA Lic. 44167

0.050" BERTHA ALUMINUM STORM PANEL (2.00" DEEP)						W.H. DRAWN BY:	
EASTERN METAL SUPPLY, INC						7/24/2026 DATE:	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)209-8263 FAX: (561)841-1716						26-234 DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 6 OF 17	
1	OLD 23-164	7/24/26	3				
2			4				



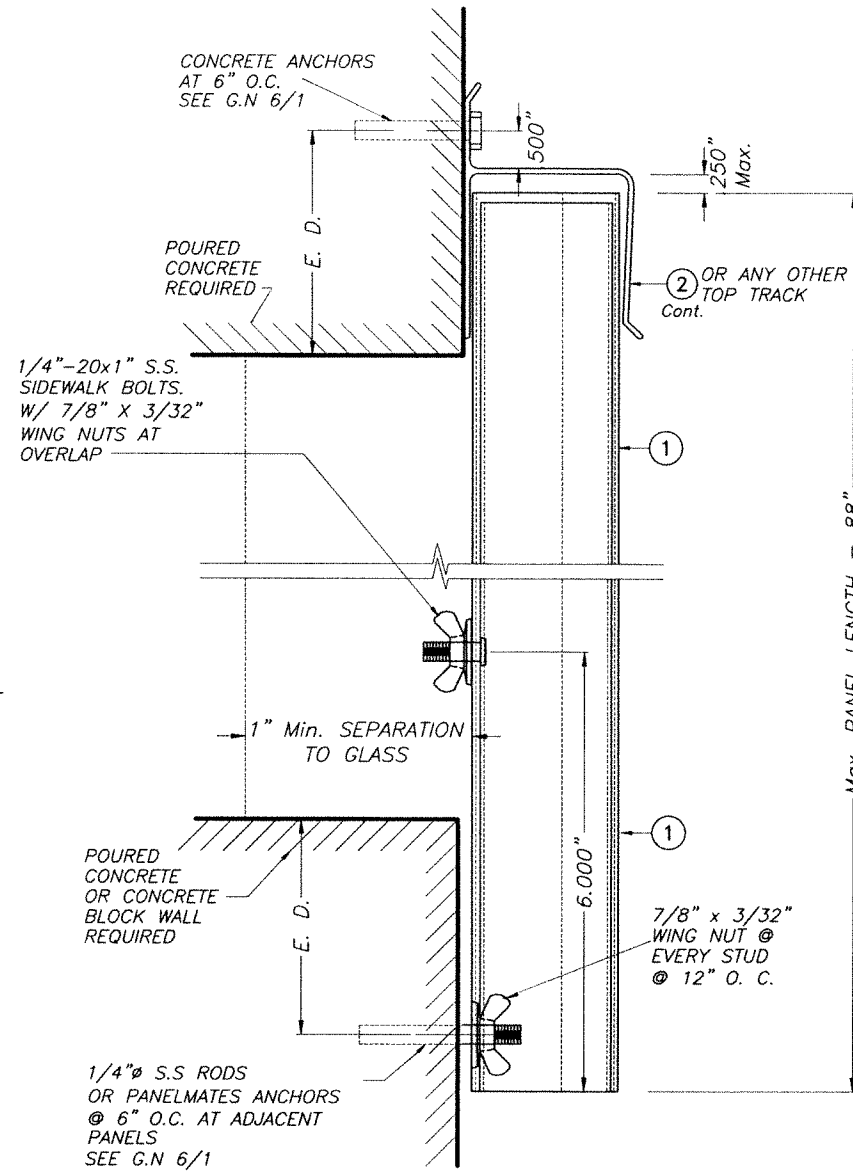
SECTION B-B

SCALE : 1 1/2" = 1"



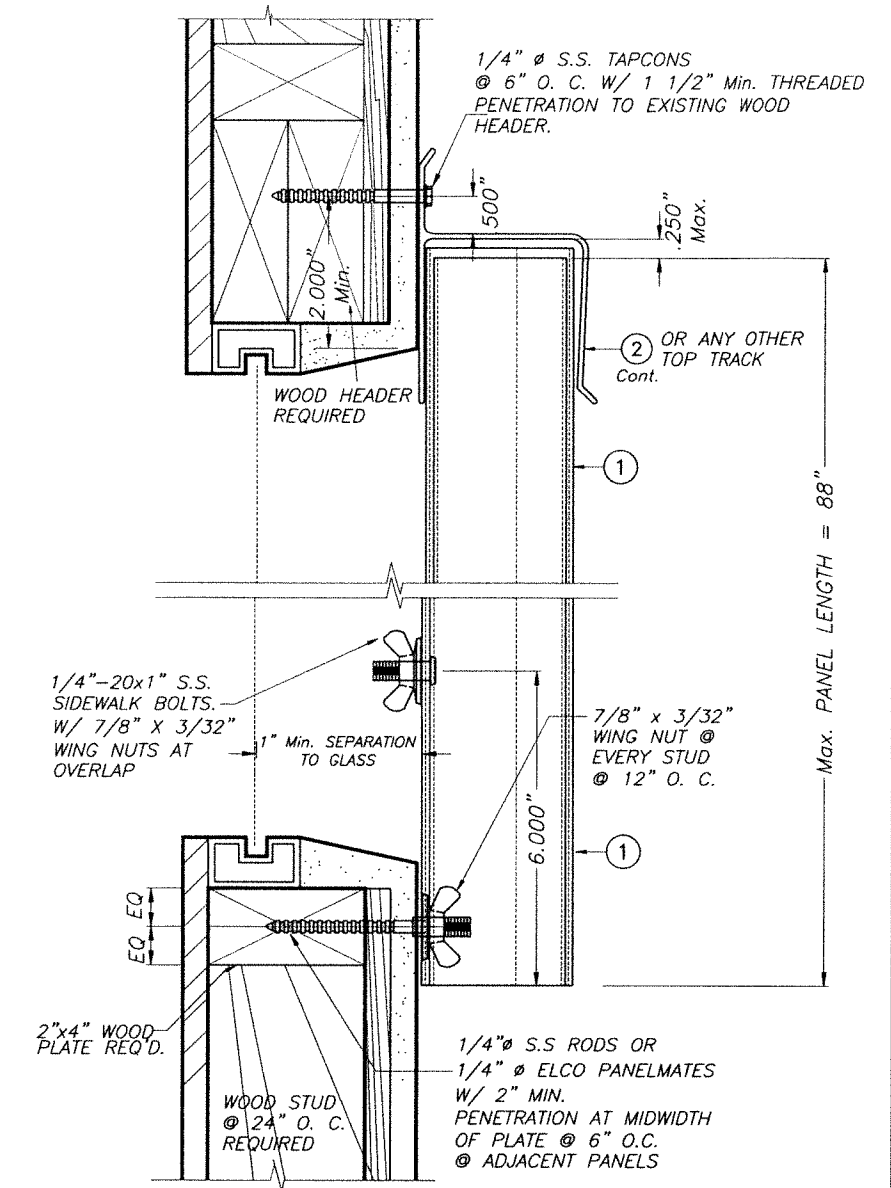
INTERIORLY REMOVABLE STORM PANEL PARTIAL ELEVATION

SCALE : 1 1/2" = 1"



WALL MOUNTING INSTALLATION SECTION 12A

SCALE : 1/2" = 1"

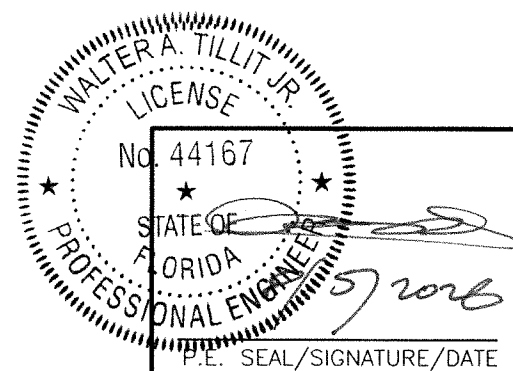


WALL MOUNTING INSTALLATION SECTION 12B

SCALE : 1/2" = 1"

INTERIORLY REMOVABLE STORM PANEL SECTIONS

MAX. A.S.D DESIGN PRESSURE RATING = +50.0, -50.0 p.s.f.



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0.050" BERTHA ALUMINUM STORM PANEL
(2.00" 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:

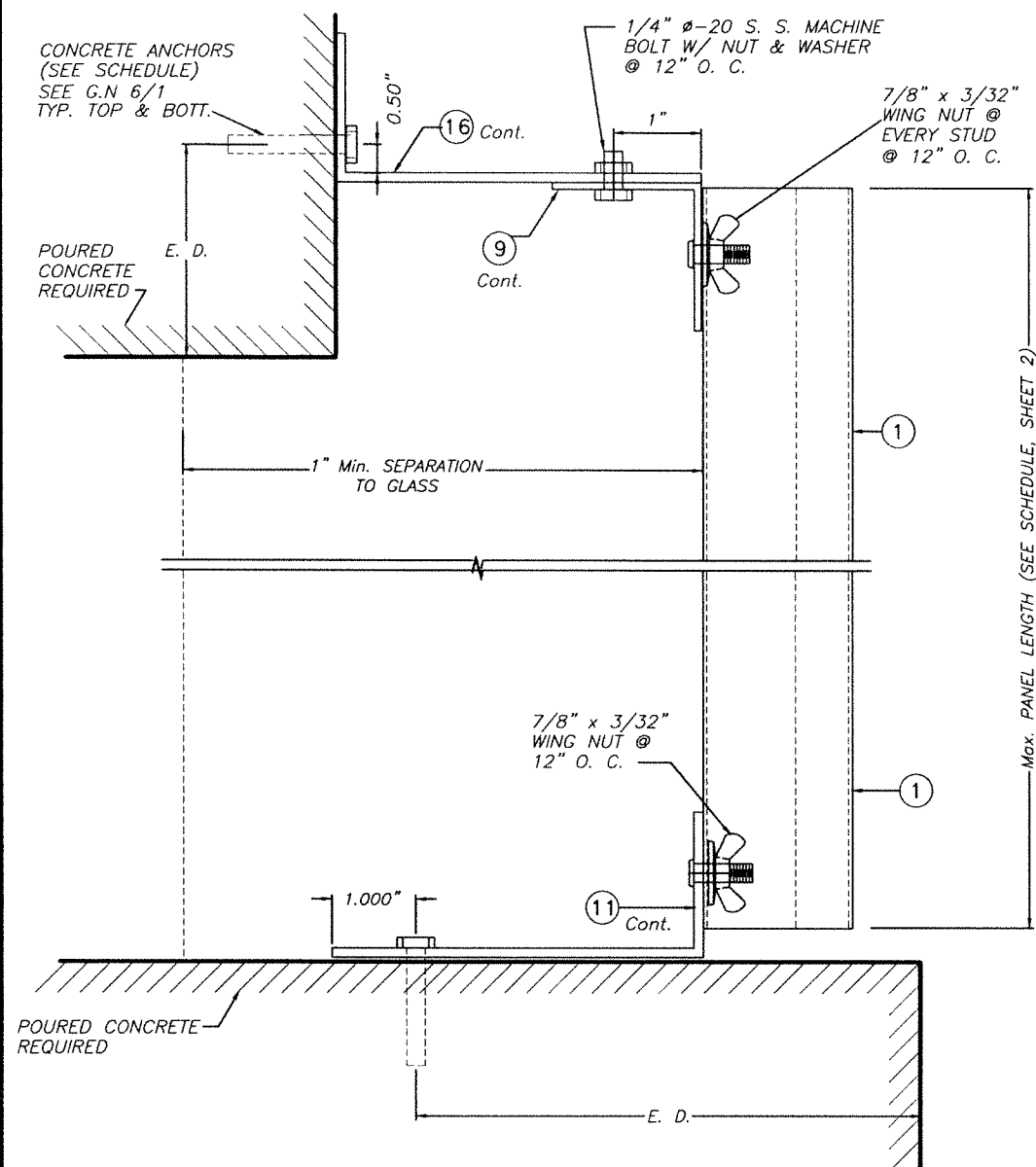
7/24/2026
DATE:

26-234

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		

SHEET 7 OF 17



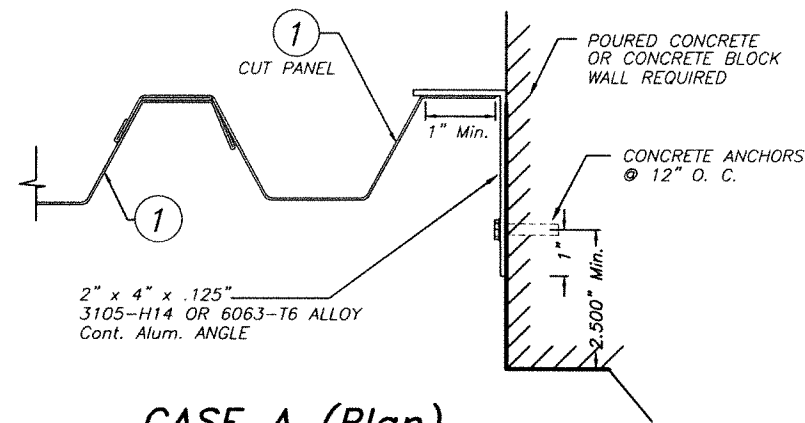
CEILING & FLOOR MOUNTING
INSTALLATION – SECTION 13

SCALE : $1/2'' = 1''$

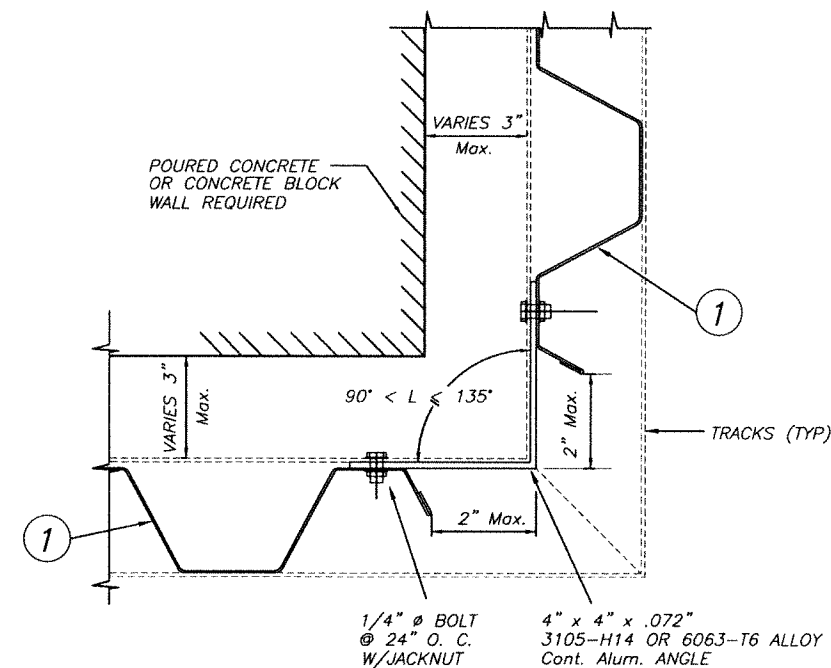
E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEETS 9, 10 & 11)

NOTE FOR COMBINATION OF SECTIONS :

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

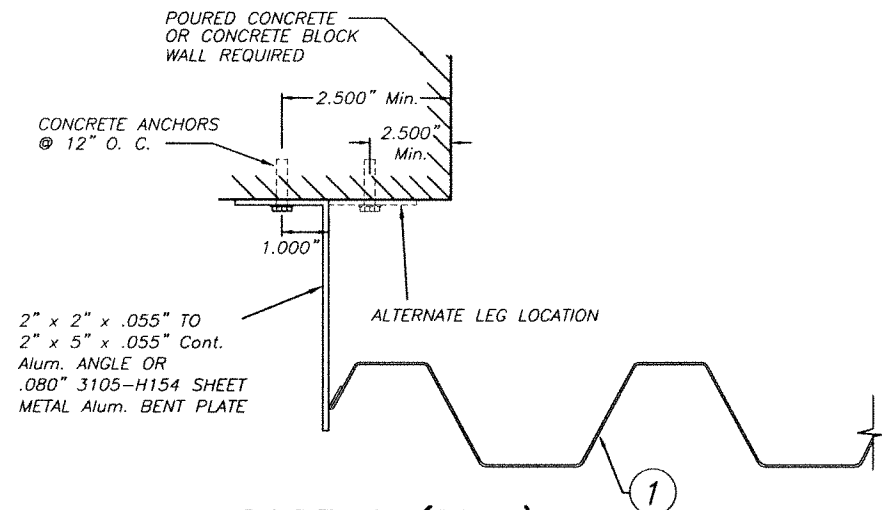


SCALE: $1/4" = 1"$



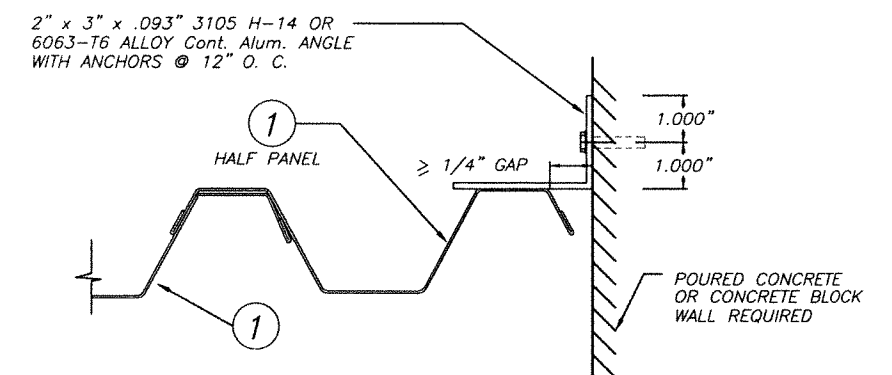
CASE B (Plan)

SCALE: $1/4" = 1"$



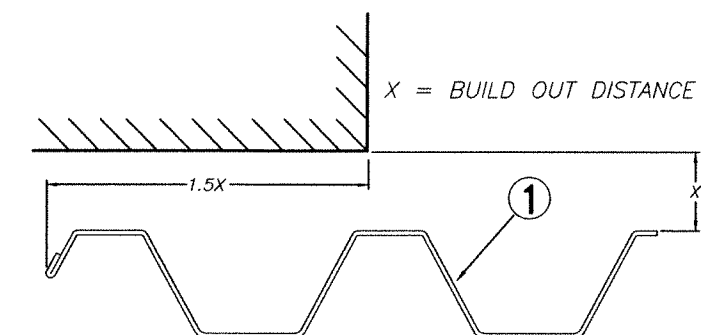
CASE C (Plan)

SCALE: $1/4" = 1"$



CASE D (Plan)

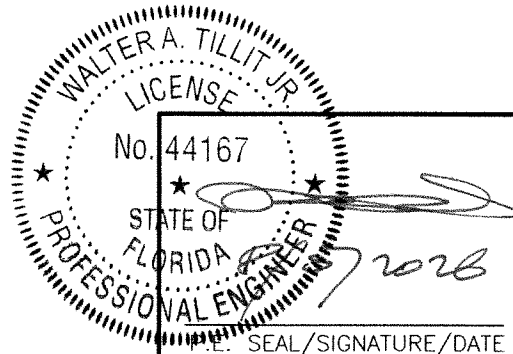
SCALE: $1/4" = 1"$



CASE E (Plan)

SCALE: $1/4" = 1"$

END CLOSURES DETAILS



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WALTER A. TILLIT Jr., P.E.
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FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL (2.00" 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:

7/24/2026
DATE:

26-234

DRAWING No

SHEET 8 OF 17

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		

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.)
	S.S. TAPCONS OR ULTRACONS		1/4" # S.S. RODS OR PANELMATES		PANELMATE TVAS			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		
+40.0, -40.0 OR LESS	12"	N/A	12"	N/A	12"	N/A	1 (TOP)	8'-0" OR LESS
	12"	11"	12"	12"	12"	12"	1 (BOTTOM)	
	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	9"	9"	9"	9"	9"	9"	2 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	3A (TOP)	
	9"	9"	9"	9"	9"	9"	3 (BOTTOM)	
	12"	11"	12"	12"	12"	12"	4 (TOP)	
	12"	11"	12"	12"	12"	12"	4 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	5A (TOP)	
	12"	N/A	12"	N/A	N/A	N/A	5 (BOTTOM)	
	12"	N/A	12"	N/A	N/A	N/A	6 (TOP)	
	12"	N/A	12"	N/A	N/A	N/A	6 (BOTTOM)	
	12"	N/A	12"	N/A	N/A	N/A	7 (TOP)	
	12"	N/A	12"	N/A	N/A	N/A	7 (BOTTOM)	
	N/A	N/A	12"	12"	12"	12"	8 (TOP)	
	N/A	N/A	12"	12"	12"	12"	8 (BOTTOM)	
	N/A	N/A	12"	12"	12"	12"	9 (TOP)	
	12"	11"	12"	12"	12"	12"	9 (BOTTOM)	
	12"	N/A	12"	N/A	N/A	N/A	10 (TOP)	
	6"	N/A	6"	N/A	N/A	N/A	10 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	11A (TOP)	
	9"	9"	9"	9"	9"	9"	11 (BOTTOM)	
	6"	N/A	6"	N/A	6"	N/A	13 (TOP)	
	6"	N/A	6"	N/A	N/A	N/A	13 (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.)
	S.S. TAPCONS OR ULTRACONS		1/4" # S.S. RODS OR PANELMATES		PANELMATE TVAS			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		
+40.0, -40.0 OR LESS	12"	N/A	12"	N/A	12"	N/A	1 (TOP)	> 8'-0" UP TO 13'-0" **
	12"	7"	12"	12"	12"	12"	1 (BOTTOM)	
	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	9"	9"	9"	9"	9"	9"	2 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	3A (TOP)	
	9"	9"	9"	9"	9"	9"	3 (BOTTOM)	
	12"	7"	12"	12"	12"	12"	4 (TOP)	
	12"	7"	12"	12"	12"	12"	4 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	5A (TOP)	
	9"	N/A	12"	N/A	N/A	N/A	5 (BOTTOM)	
	9"	N/A	12"	N/A	N/A	N/A	6 (TOP)	
	9"	N/A	12"	N/A	N/A	N/A	6 (BOTTOM)	
	9"	N/A	12"	N/A	N/A	N/A	7 (TOP)	
	9"	N/A	12"	N/A	N/A	N/A	7 (BOTTOM)	
	N/A	N/A	12"*	12"*	12"*	12"*	8 (TOP)*	
	N/A	N/A	12"*	12"*	12"*	12"*	8 (BOTTOM)*	
	N/A	N/A	12"*	12"*	12"*	12"*	9 (TOP) *	
	12"	7"	12"	12"	12"	12"	9 (BOTTOM)	
	9"	N/A	12"	N/A	N/A	N/A	10 (TOP)	
	6"	N/A	6"	N/A	N/A"	N/A	10 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	11A (TOP)	
	9"	9"	9"	9"	9"	9"	11 (BOTTOM)	
	6"	N/A	6"	N/A	6"	N/A	13 (TOP)	
	6"	N/A	6"	N/A	6"	N/A	13 (BOTTOM)	

* USE 6" OC FOR PANEL LENGTHS LARGER THAN 10' - 0" AND USE 12" OC AS SHOWN ON SCHEDULE FOR PANELS LENGTHS EQUAL OR SHORTER THAN 10' - 0

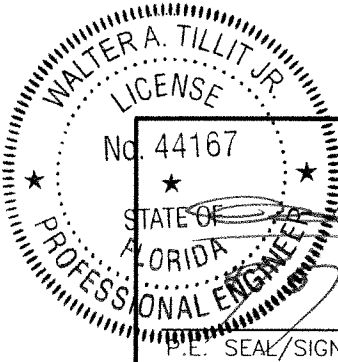
**MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE. FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR THIS OPERATION TO BE POSSIBLE, REDUCED SPACING OBTAINED USING FACTOR SHALL NOT BE LESS THAN MINIMUM SPACING INDICATED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

ACTUAL E. D.	FACTOR	
	S.S. TAPCONS OR ULTRACONS	S.S. RODS, PANELMATE OR PANELMATE TVAS
3"	-	.86
2 1/2"	-	.71
2"	-	.50
1 1/2"	.35	-

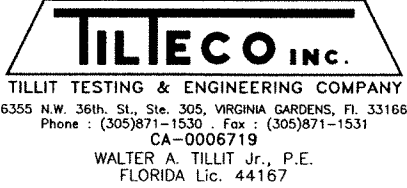
ANCHORS LEGEND

ANCHOR TYPE	Min. ANCHOR SPACING
S.S. TAPCON OR ULTRACONS PANELMATE, PANELMATE TVAS OR 1/4" # S.S. RODS	3"

E. D. = EDGE DISTANCE



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0.050" BERTHA ALUMINUM STORM PANEL
(2.00" 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:

7/24/2026
DATE:

26-234

DRAWING No

SHEET 9 OF 17

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		

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.)
	S.S. TAPCONS OR ULTRACONS		PANELMATES OR 1/4" S.S. RODS		PANELMATE TVAS			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		
+40.0, -40.0 UP TO +60.0, -60.0	12"	N/A	12"	N/A	N/A	N/A	1 (TOP)	8'-0" OR LESS
	12"	7"	12"	12"	12"	12"	1 (BOTTOM)	
	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	9"	7"	9"	9"	9"	9"	2 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	3A (TOP)	
	9"	7"	9"	9"	9"	9"	3 (BOTTOM)	
	12"	7"	12"	12"	12"	12"	4 (TOP)	
	12"	7"	12"	12"	12"	12"	4 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	5A (TOP)	
	10"	N/A	12"	N/A	N/A	N/A	5 (BOTTOM)	
	10"	N/A	12"	N/A	N/A	N/A	6 (TOP)	
	10"	N/A	12"	N/A	N/A	N/A	6 (BOTTOM)	
	10"	N/A	12"	N/A	N/A	N/A	7 (TOP)	
	10"	N/A	12"	N/A	N/A	N/A	7 (BOTTOM)	
	N/A	N/A	12"	12"	12"	12"	8 (TOP)	
	N/A	N/A	12"	12"	12"	12"	8 (BOTTOM)	
	N/A	N/A	12"	12"	12"	12"	9 (TOP)	
	12"	7"	12"	12"	12"	12"	9 (BOTTOM)	
	10"	N/A	12"	N/A	N/A	N/A	10 (TOP)	
	6"	N/A	6"	N/A	N/A	N/A	10 (BOTTOM)	
	9"	7"	9"	7"	9"	7"	11A (TOP)	
	9"	7"	9"	7"	9"	7"	11 (BOTTOM)	
	6"	N/A	6"	N/A	N/A	N/A	13 (TOP)	
	6"	N/A	6"	N/A	N/A	N/A	13 (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.)
	S.S. TAPCONS OR ULTRACONS		PANELMATES OR 1/4" S.S. RODS		PANELMATE TVAS			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		
+60.0, -60.0 UP TO +80.0, -90.0	11"	N/A	11"	N/A	11"	N/A	1 (TOP)	9'-0" OR LESS
	11"	4"	11"	7"	11"	7"	1 (BOTTOM)	
	11"	N/A	11"	N/A	11"	N/A	2 (TOP)	
	8"	4"	9"	7"	9"	7"	2 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	3A (TOP)	
	8"	4"	9"	7"	9"	7"	3 (BOTTOM)	
	11"	4"	11"	7"	11"	7"	4 (TOP)	
	11"	4"	11"	7"	11"	7"	4 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	5A (TOP)	
	5"	8"	8"	N/A	N/A	N/A	5 (BOTTOM)	
	9"	N/A	11"	N/A	N/A	N/A	6 (TOP)	
	8"	N/A	8"	N/A	N/A	N/A	6 (BOTTOM)	
	5"	N/A	8"	N/A	N/A	N/A	7 (TOP)	
	5"	N/A	8"	N/A	N/A	N/A	7 (BOTTOM)	
	N/A	N/A	12"	6"	12"	6"	8 (TOP)	
	N/A	N/A	12"	6"	12"	6"	8 (BOTTOM)	
	N/A	N/A	12"	6"	12"	6"	9 (TOP)	
	11"	4"	11"	7"	11"	7"	9 (BOTTOM)	
	9"	N/A	11"	N/A	N/A	N/A	10 (TOP)	
	6"	N/A	6"	N/A	N/A	N/A	10 (BOTTOM)	
	8"	4"	9"	7"	9"	7"	11A (TOP)	
	8"	4"	9"	7"	9"	7"	11 (BOTTOM)	
	6"	N/A	6"	N/A	N/A	N/A	13 (TOP)	
	6"	N/A	6"	N/A	N/A	N/A	13 (BOTTOM)	

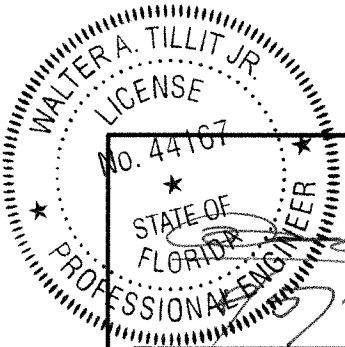
ANCHORS LEGEND

ANCHOR TYPE	Min. ANCHOR SPACING
S.S. TAPCONS, PANELMATE OR PANELMATE TVAS OR 1/4" S.S. RODS.	3"

**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	
	S.S. TAPCONS OR ULTRACONS	S.S. RODS, PANELMATE OR PANELMATE TVAS
3"	-	.86
2 1/2"	-	.71
2"	-	.50
1 1/2"	.35	-

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)



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

0.050" BERTHA ALUMINUM STORM PANEL
(2.00" 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 23-164	7/24/26	3		
2			4		

W.H.
DRAWN BY:

7/24/2026
DATE:

26-234
DRAWING No

SHEET 10 OF 17

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.)
	S.S. TAPCONS OR ULTRACONS		PANELMATES OR 1/4" S.S. RODS		PANELMATE TVAS			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		
+40.0, -40.0 UP TO +60.0, -60.0	12"	N/A	12"	N/A	12"	N/A	1 (TOP)	>8'-0" UP TO 12'-6"
	12"	4 1/2"	12"	8 1/2"	12"	8 1/2"	1 (BOTTOM)	
	12"	N/A	12"	N/A	12"	N/A	2 (TOP)	
	9"	4 1/2"	9"	8 1/2"	9"	8 1/2"	2 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	3A (TOP)	
	9"	4 1/2"	9"	8 1/2"	9"	8 1/2"	3 (BOTTOM)	
	12"	4 1/2"	12"	8 1/2"	12"	8 1/2"	4 (TOP)	
	12"	4 1/2"	12"	8 1/2"	12"	8 1/2"	4 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	5A (TOP)	
	6 1/2"	N/A	7 1/2"	N/A	N/A	N/A	5 (BOTTOM)	
	9"	N/A	9 1/2"	N/A	N/A	N/A	6 (TOP)	
	6 1/2"	N/A	7 1/2"	N/A	N/A	N/A	6 (BOTTOM)	
	6"	N/A	6 1/2"	N/A	N/A	N/A	7 (TOP)	
	6"	N/A	6 1/2"	N/A	N/A	N/A	7 (BOTTOM)	
	N/A	N/A	12" *	6" *	12" *	6" *	8 (TOP) *	
	N/A	N/A	12" *	6" *	12" *	6" *	8 (BOTTOM) *	
	N/A	N/A	12" *	6" *	12" *	6" *	9 (TOP) *	
	12"	4 1/2"	12"	8 1/2"	12"	8 1/2"	9 (BOTTOM)	
	9"	N/A	9 1/2"	N/A	N/A	N/A	10 (TOP)	
	6"	N/A	6"	N/A	N/A	N/A	10 (BOTTOM)	
	9"	4 1/2"	9"	4 1/2"	9"	4 1/2"	11A (TOP)	
	9"	4 1/2"	9"	4 1/2"	9"	4 1/2"	11 (BOTTOM)	
	6"	N/A	6"	N/A	N/A	N/A	13 (TOP)	
	6"	N/A	6"	N/A	N/A	N/A	13 (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.)
	S.S. TAPCONS OR ULTRACONS		PANELMATES OR 1/4" S.S. RODS		PANELMATE TVAS			
	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY	TO CONCRETE	TO MASONRY		
+90.0, -90.0 UP TO +100.0, -130.0	8 1/2"	N/A	9"	N/A	9"	N/A	1 (TOP)	7'-0" OR LESS
	9"	7"	9"	7"	9"	7"	1 (BOTTOM)	
	9"	N/A	9"	N/A	9"	N/A	2 (TOP)	
	9"	4"	9"	7"	9"	9"	2 (BOTTOM)	
	8"	N/A	9"	N/A	9"	N/A	3A (TOP)	
	9"	4"	9"	7"	9"	9"	3 (BOTTOM)	
	9"	7"	9"	7"	9"	7"	4 (TOP)	
	9"	7"	9"	7"	9"	7"	4 (BOTTOM)	
	8"	N/A	9"	N/A	9"	N/A	5A (TOP)	
	5"	N/A	7"	N/A	N/A	N/A	5 (BOTTOM)	
	7"	N/A	8"	N/A	N/A	N/A	6 (TOP)	
	5"	N/A	7"	N/A	N/A	N/A	6 (BOTTOM)	
	5"	N/A	7"	N/A	N/A	N/A	7 (TOP)	
	5"	N/A	7"	N/A	N/A	N/A	7 (BOTTOM)	
	N/A	N/A	12"	6"	12"	6"	8 (TOP)	
	N/A	N/A	12"	6"	12"	6"	8 (BOTTOM)	
	N/A	N/A	12"	6"	12"	6"	9 (TOP)	
	9"	7"	9"	7"	9"	7"	9 (BOTTOM)	
	7"	N/A	8"	N/A	N/A	N/A	10 (TOP)	
	5"	N/A	6"	N/A	N/A	N/A	10 (BOTTOM)	
	5"	4"	7"	7"	7"	7"	11A (TOP)	
	5"	4"	7"	7"	7"	7"	11 (BOTTOM)	
	6"	N/A	6"	N/A	N/A	N/A	13 (TOP)	
	5	N/A	6"	N/A	N/A	N/A	13 (BOTTOM)	

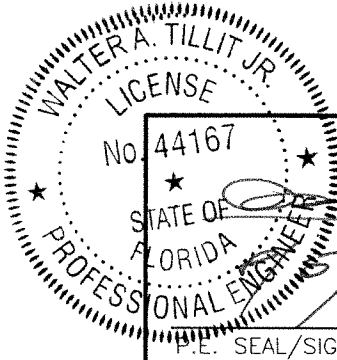
* USE 6" OC FOR PANEL LENGTHS LARGER THAN 10'-0" AND USE 12" AS SHOWN ON SCHEDULE FOR PANELS LENGTHS EQUAL OR SHORTER THAN 10'-0"

ANCHORS LEGEND

**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 SOLIDSET ANCHORS IS 3") 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.	S.S. TAPCONS OR ULTRACONS	FACTOR S.S. RODS, PANELMATE OR PANELMATE TVAS
3"	-	.86
2 1/2"	-	.71
2"	-	.50
1 1/2"	.35	-

ANCHOR TYPE	Min. ANCHOR SPACING
S.S. TAPCONS, ULTRACONS, S.S. RODS, OR PANELMATE OR PANELMATE TVAS	3"

E. D. = EDGE DISTANCE



P.E. SEAL/SIGNATURE/DATE

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

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL (2.00" 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:

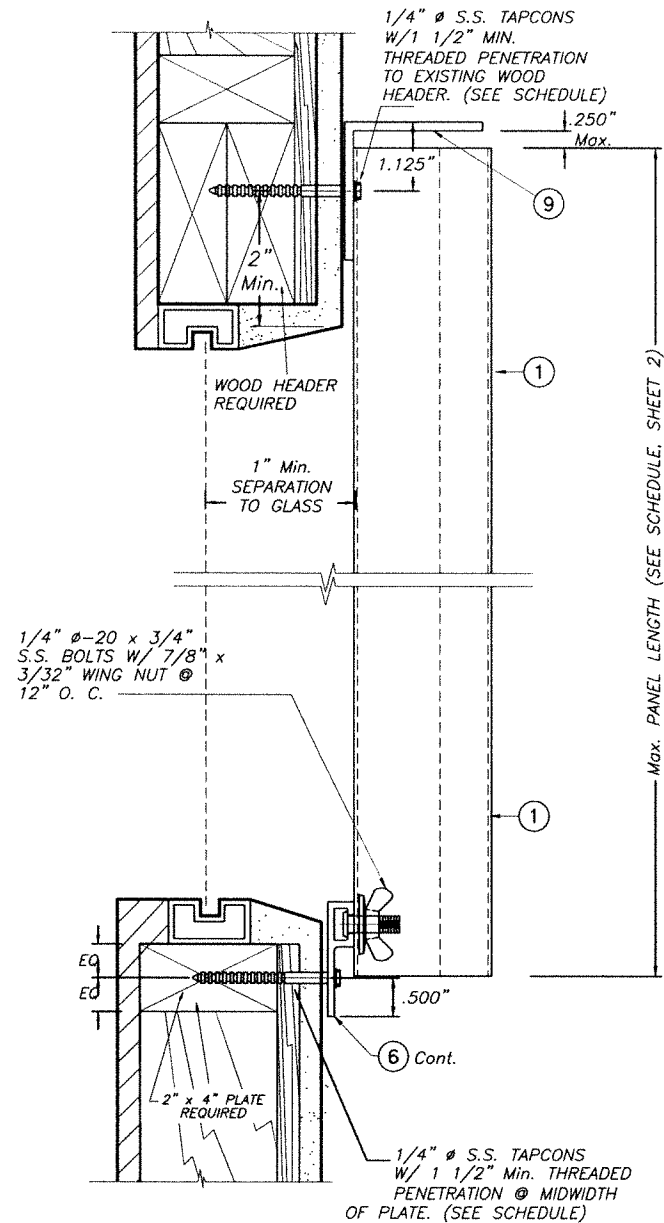
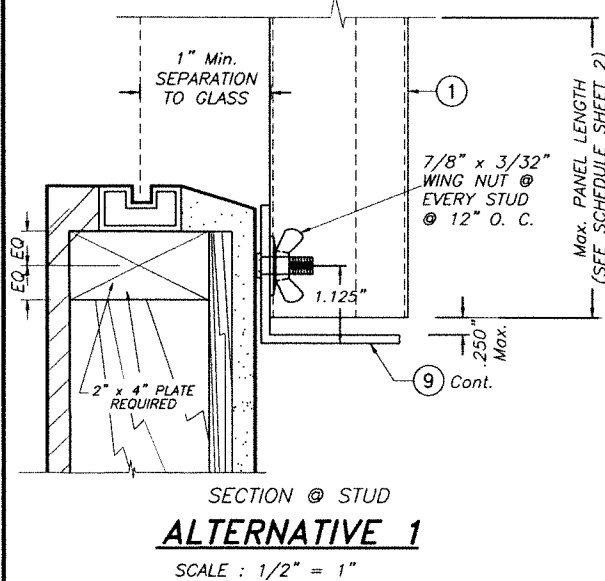
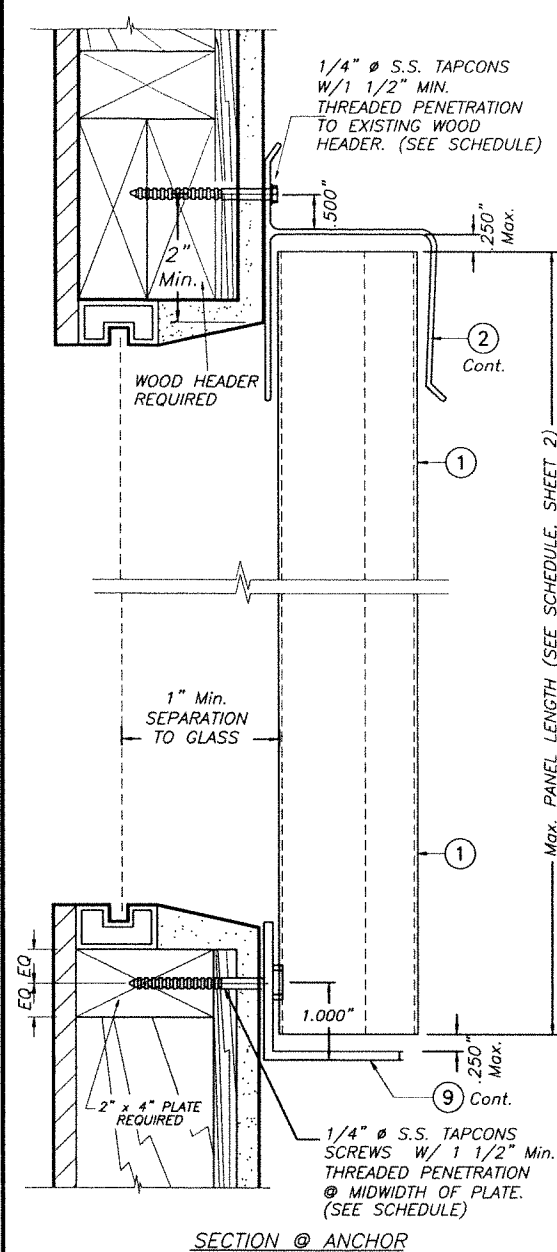
7/24/2026
DATE:

26-234

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		

SHEET 11 OF 17

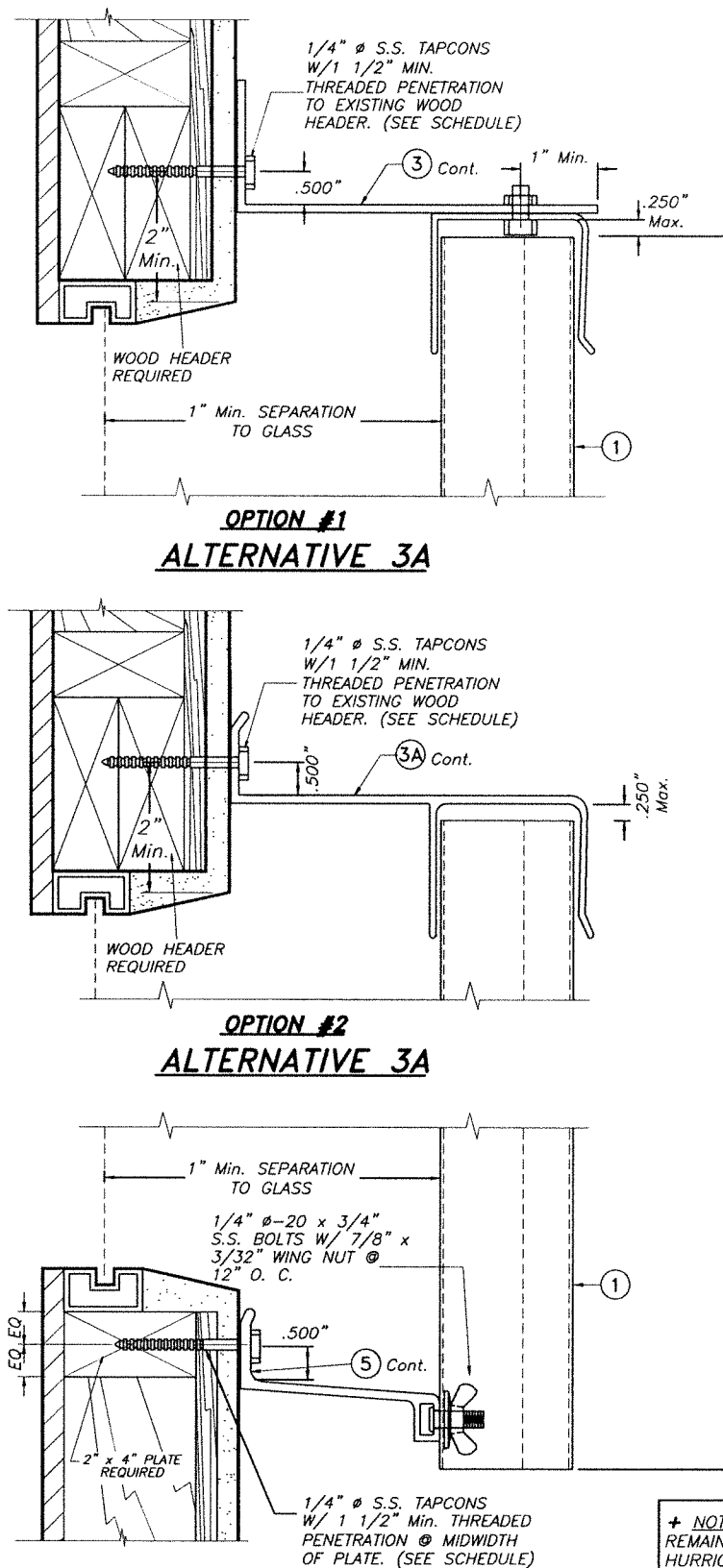


NOTE FOR COMBINATION OF SECTIONS :

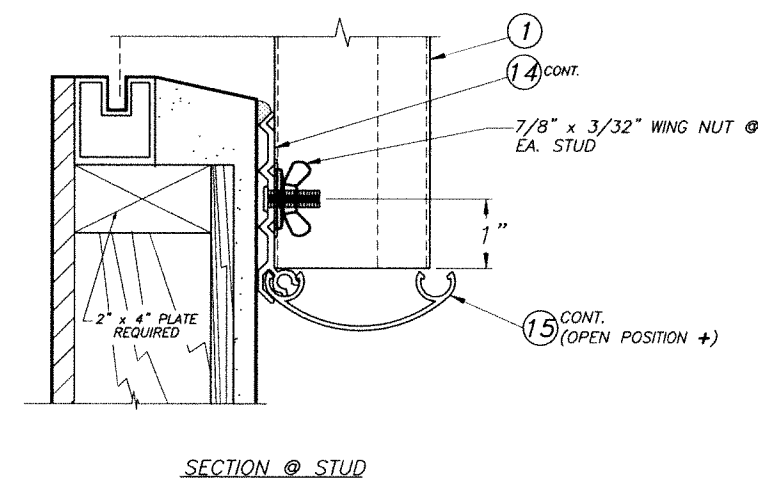
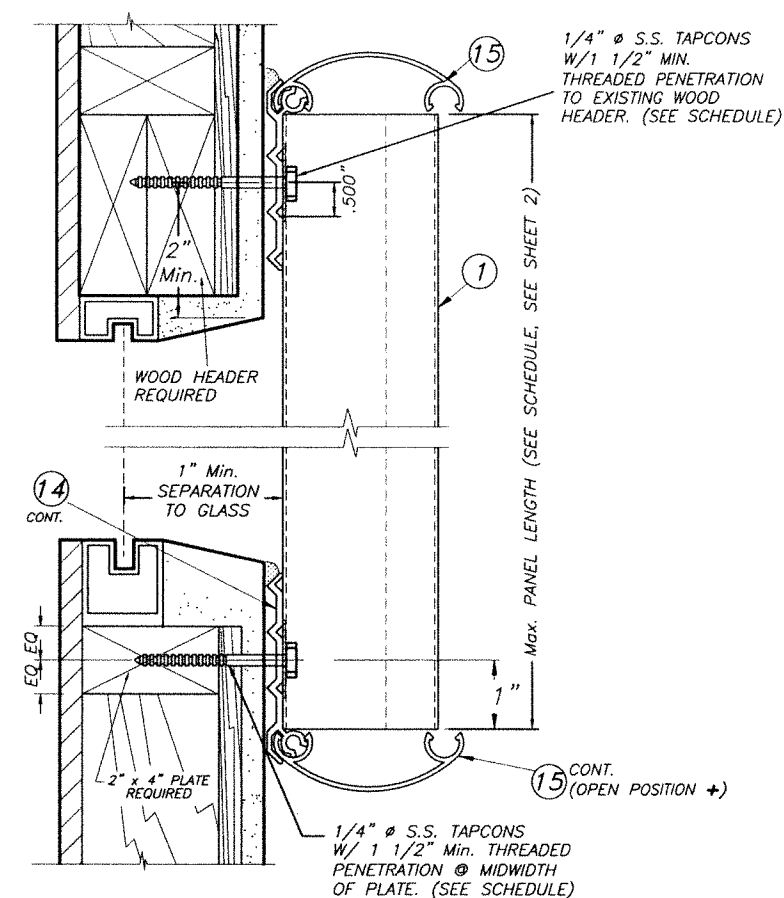
WALL MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

NOTES:

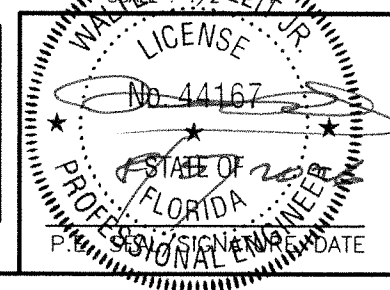
1. INSTALLATIONS ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING AND PANEL LENGTHS AS PER SCHEDULES ON SHEET 2
2. SEE ANCHOR SCHEDULE ON SHEETS 16 & 17.
3. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



+ NOTE: SNAP CAP (13) TO REMAIN CLOSED AT NON HURRICANE CONDITIONS.



FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)



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CA-0006719

WALTER A. TILLIT JR., P.E.

FLORIDA Lic. 44167

0.050" BERTHA ALUMINUM STORM PANEL (2.00" 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 23-164	7/24/26	3		
2			4		

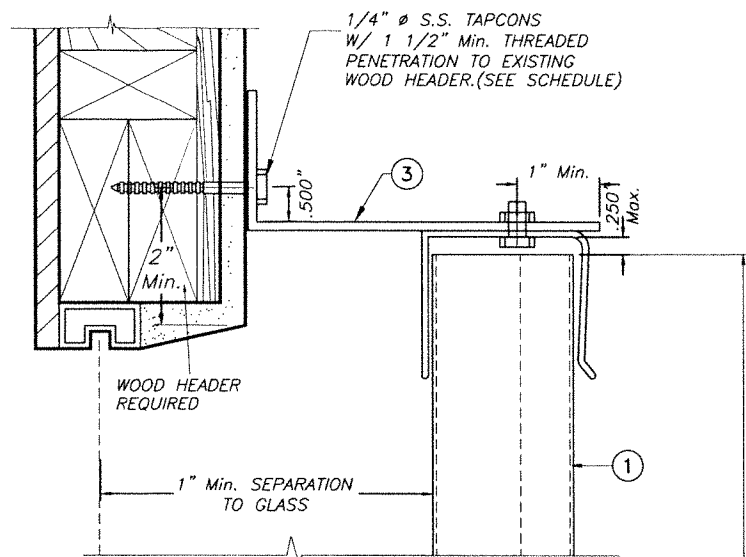
W.H. DRAWN BY:

7/24/2026 DATE:

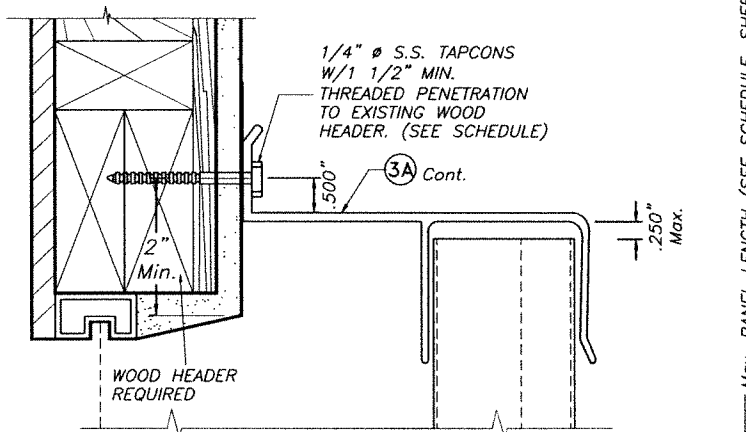
26-234

DRAWING No

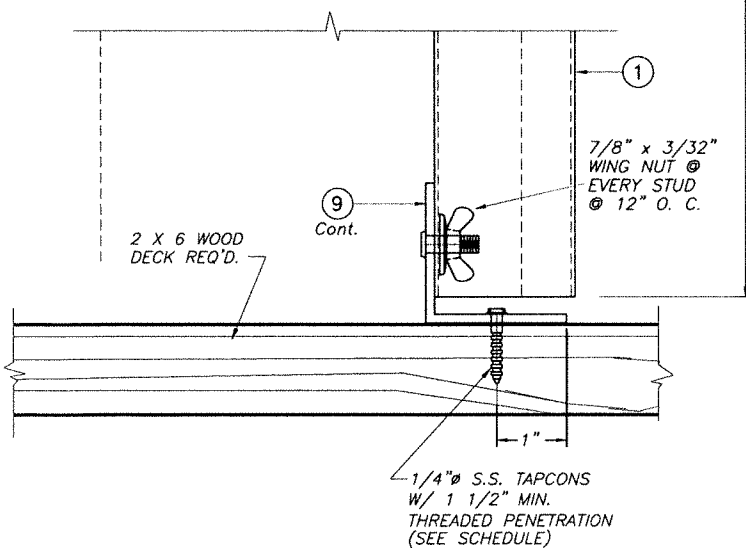
SHEET 12 OF 17



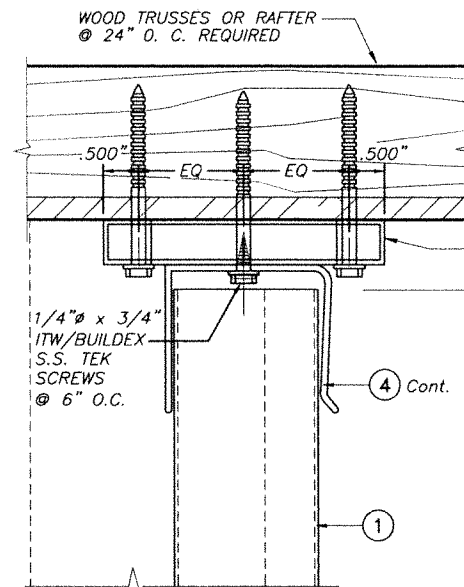
OPTION #1
ALTERNATIVE 5A



OPTION #2
ALTERNATIVE 5A

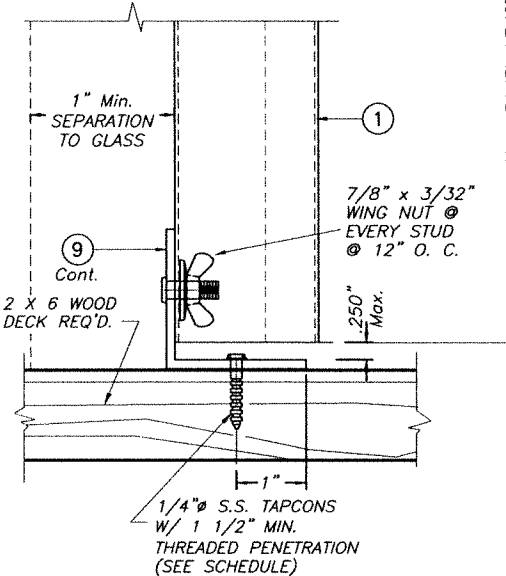


ALTERNATIVE 5
SCALE : 1/2" = 1"



ALTERNATIVE 6A

SCALE : 1/2" = 1"
(LIMITED TO +60.0, -66.0 p.s.f. DESIGN LOAD
AND UP TO 9'-0" Max. PANEL LENGTH)



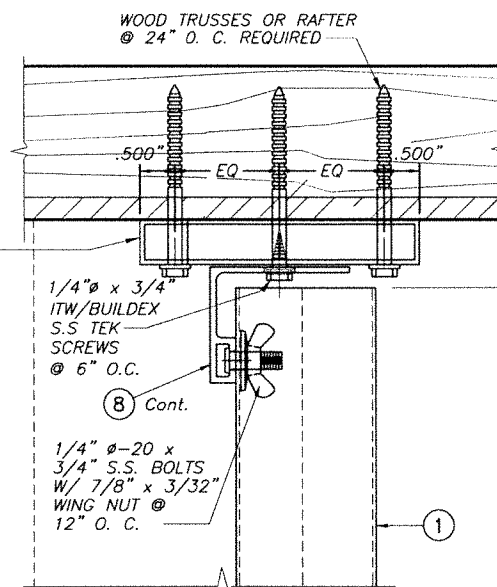
ALTERNATIVE 6

SCALE : 1/2" = 1"

NOTES:

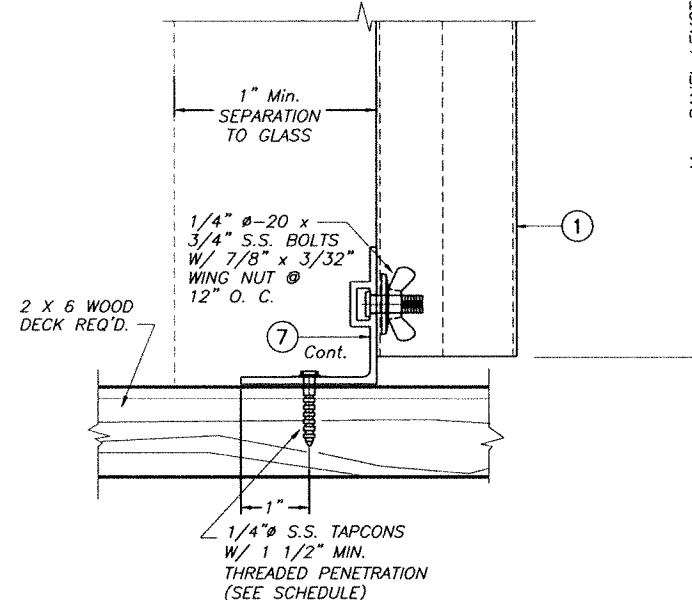
1. INSTALLATIONS ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING AND PANEL'S LENGTHS AS PER SCHEDULES ON SHEET 2 (EXCEPT AS NOTED)
2. SEE ANCHOR SCHEDULE ON SHEET 16 & 17.
3. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL
4. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED FOR INSTALLATION WITHIN 300FT OF THE COASTAL SHORELINE.

WALTER A. TILLIT JR., P.E.
FLORIDA Lic. 44167
PROFESSIONAL ENGINEER
STATE OF FLORIDA
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. 44167



ALTERNATIVE 7A

SCALE : 1/2" = 1"
(LIMITED TO +60.0, -66.0 p.s.f. DESIGN LOAD
AND UP TO 9'-0" Max. PANEL LENGTH)

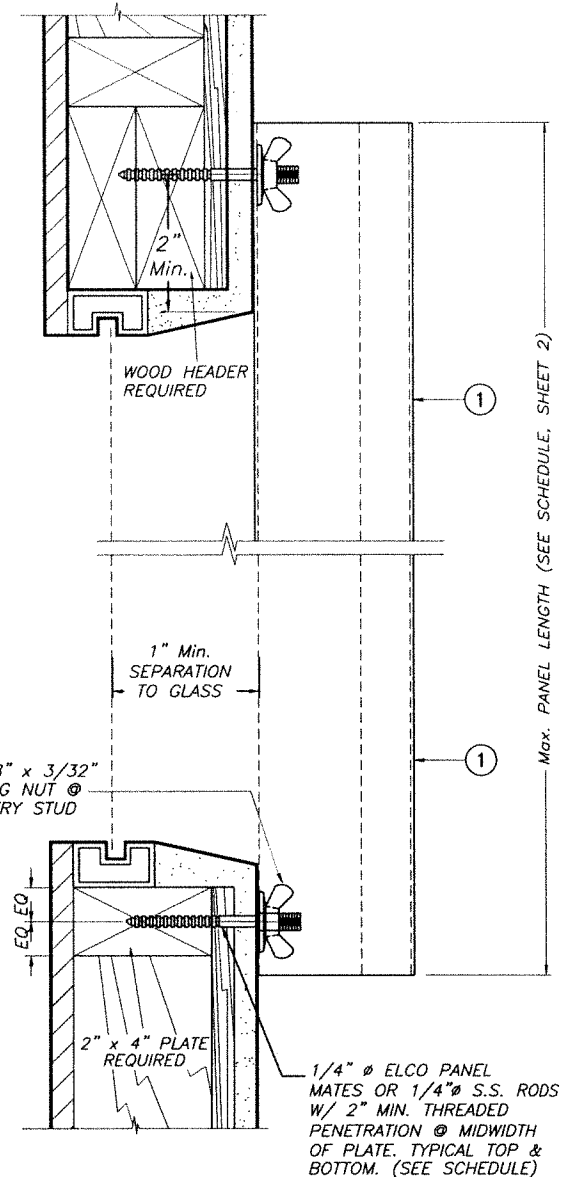


ALTERNATIVE 7

SCALE : 1/2" = 1"

NOTE FOR COMBINATION OF SECTIONS :

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



ALTERNATIVE 8

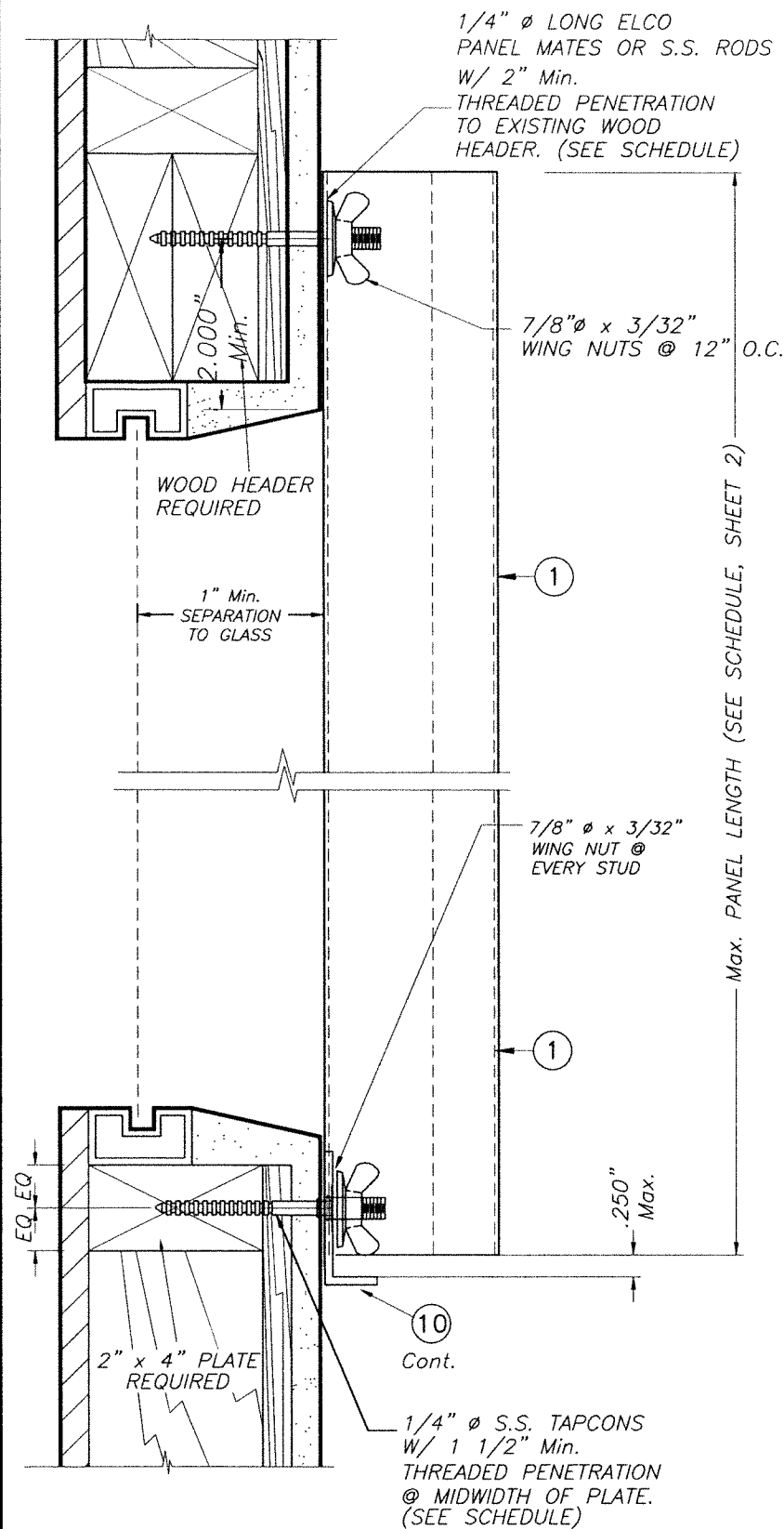
SCALE : 1/2" = 1"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

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**0.050" BERTHA ALUMINUM STORM PANEL
(2.00" DEEP)**
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4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)209-8263
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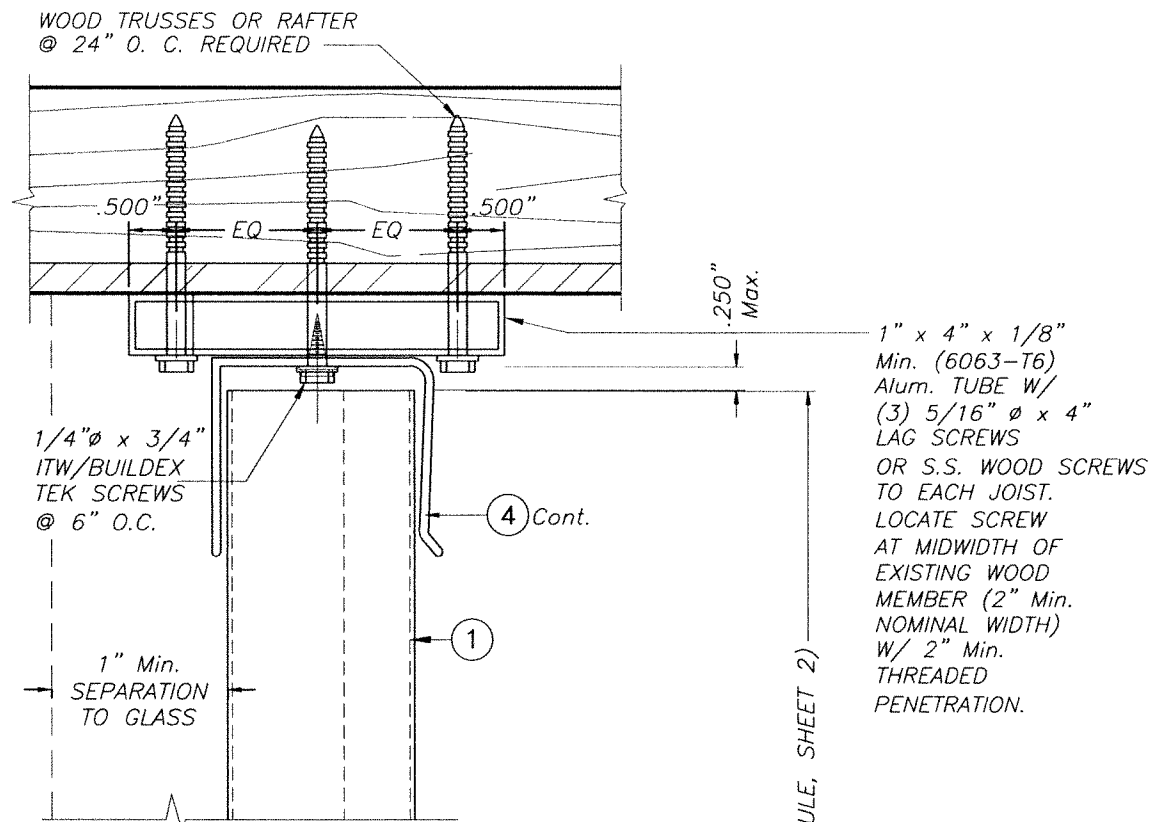
W.H.
DRAWN BY:
7/24/2026
DATE:
26-234
DRAWING No
SHEET 13 OF 17



ALTERNATIVE 9

SCALE : 1/2" = 1"

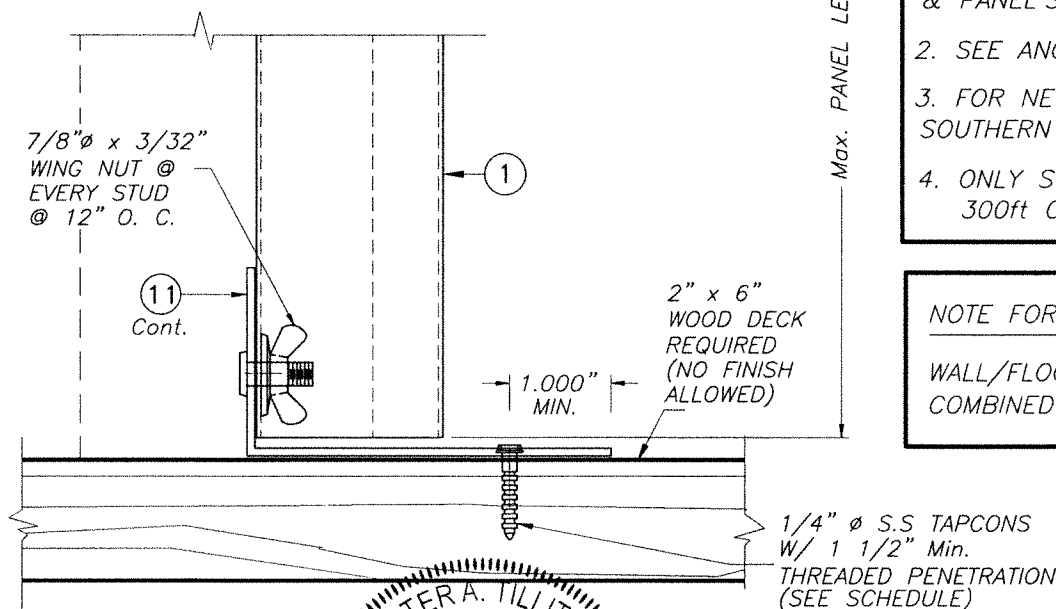
INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS



ALTERNATIVE 10A

SCALE : 1/2" = 1"

(LIMITED TO +60.0, -66.0 p.s.f. DESIGN LOAD
AND UP TO 9'-0" Max. PANEL LENGTH)



ALTERNATIVE 10

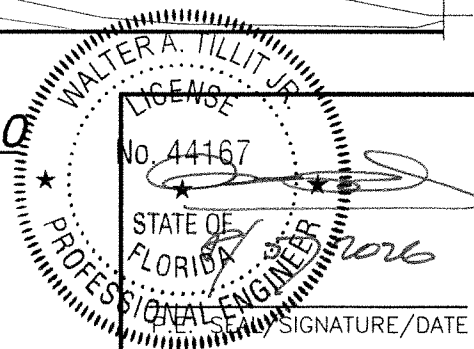
SCALE : 1/2" = 1"

NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING & PANEL'S LENGTHS AS PER SCHEDULES ON SHEET 2 (EXCEPT AS NOTED)
2. SEE ANCHOR SCHEDULE ON SHEET 16 & 17.
3. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.
4. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATION WITHIN 300ft OF THE COASTAL SHORELINE.

NOTE FOR COMBINATION OF SECTIONS :

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



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(2.00" DEEP)

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W.H.
DRAWN BY:

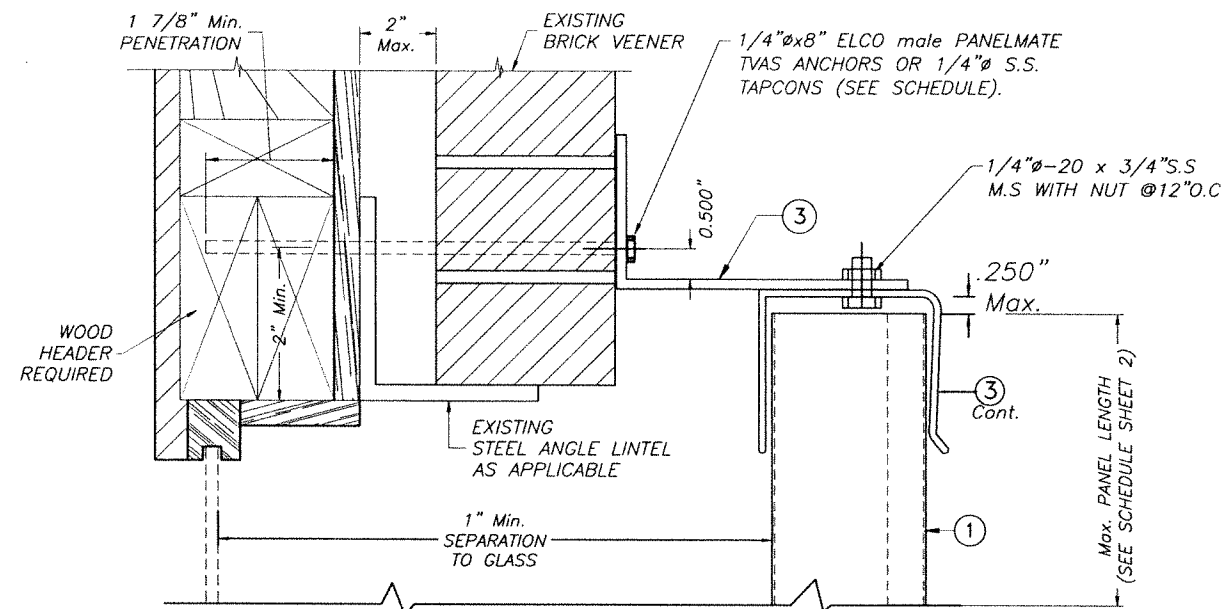
7/24/2026
DATE:

26-234

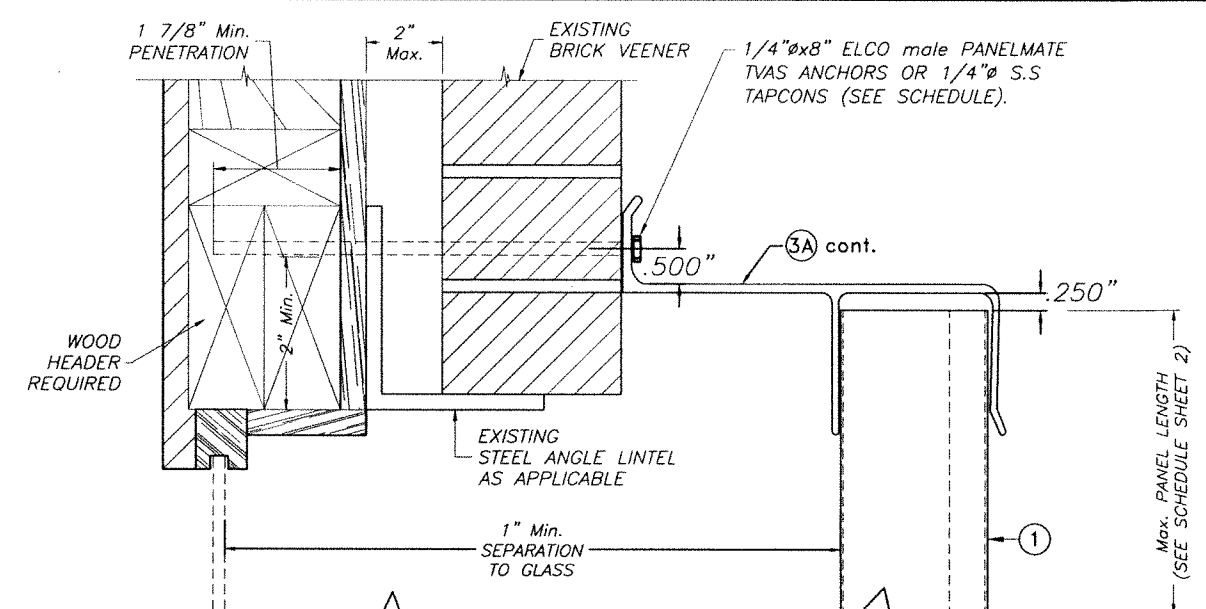
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SHEET 14 OF 17

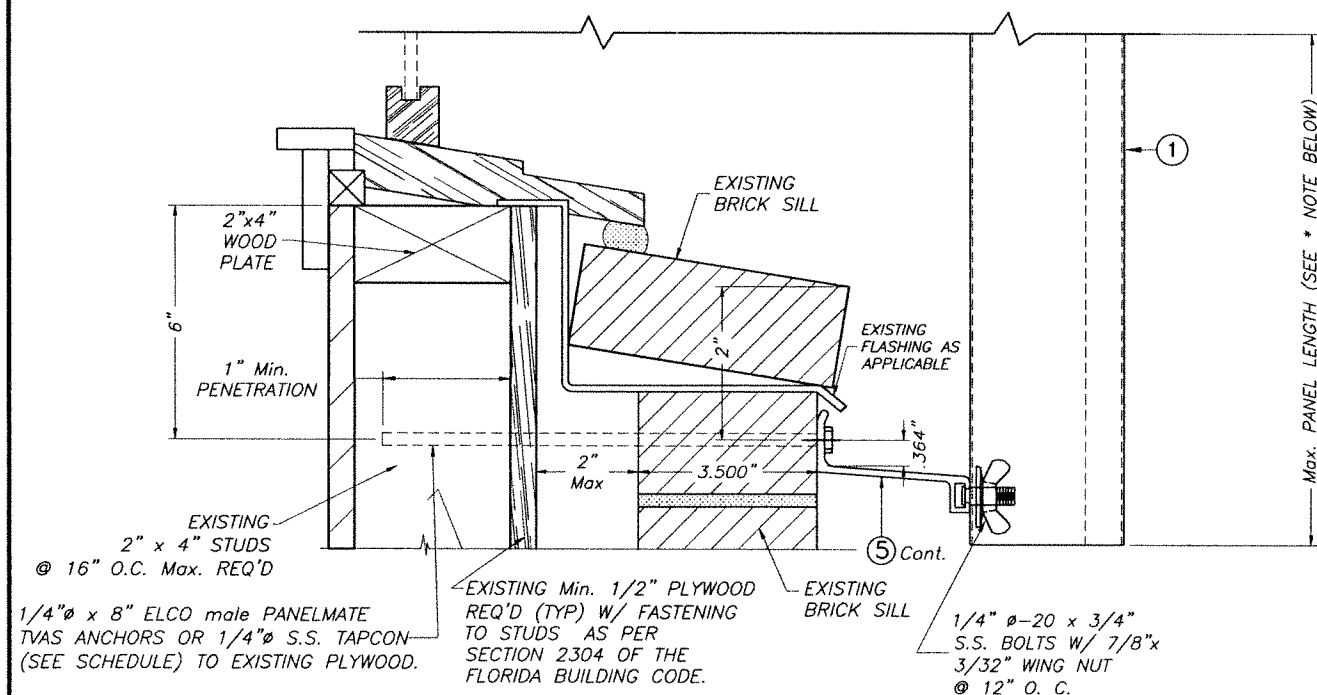
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		



OPTION #1
ALTERNATIVE 11A



OPTION #2
ALTERNATIVE 11A



ALTERNATIVE 11
BUILD-OUT INSTALLATION
SCALE : 1/2" = 1"

* VALID FOR MAX. A.S.D DESIGN PRESSURE RATING +50.0, -60.0 p.s.f. FOR UP TO 78" PANELS LENGTHS, AND FOR +50.0, -50.0 p.s.f., FOR PANEL LENGTHS GREATER THAN 78" UP TO 108"

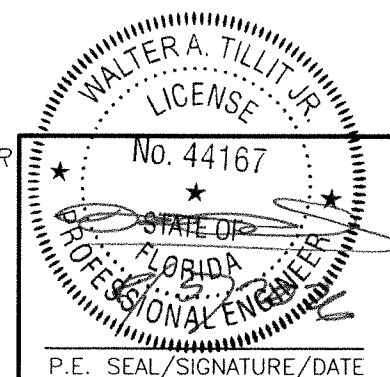
NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING AND PANEL'S LENGTHS AS PER SCHEDULES ON SHEET 2 (EXCEPT AS NOTED)
2. SEE ANCHOR SCHEDULE ON SHEET 16 & 17.
3. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.
4. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATION WITHIN 300ft OF THE COASTAL SHORELINE.

NOTE FOR COMBINATION OF SECTIONS :

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

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS



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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 (2.00" DEEP)

EASTERN METAL SUPPLY, INC

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

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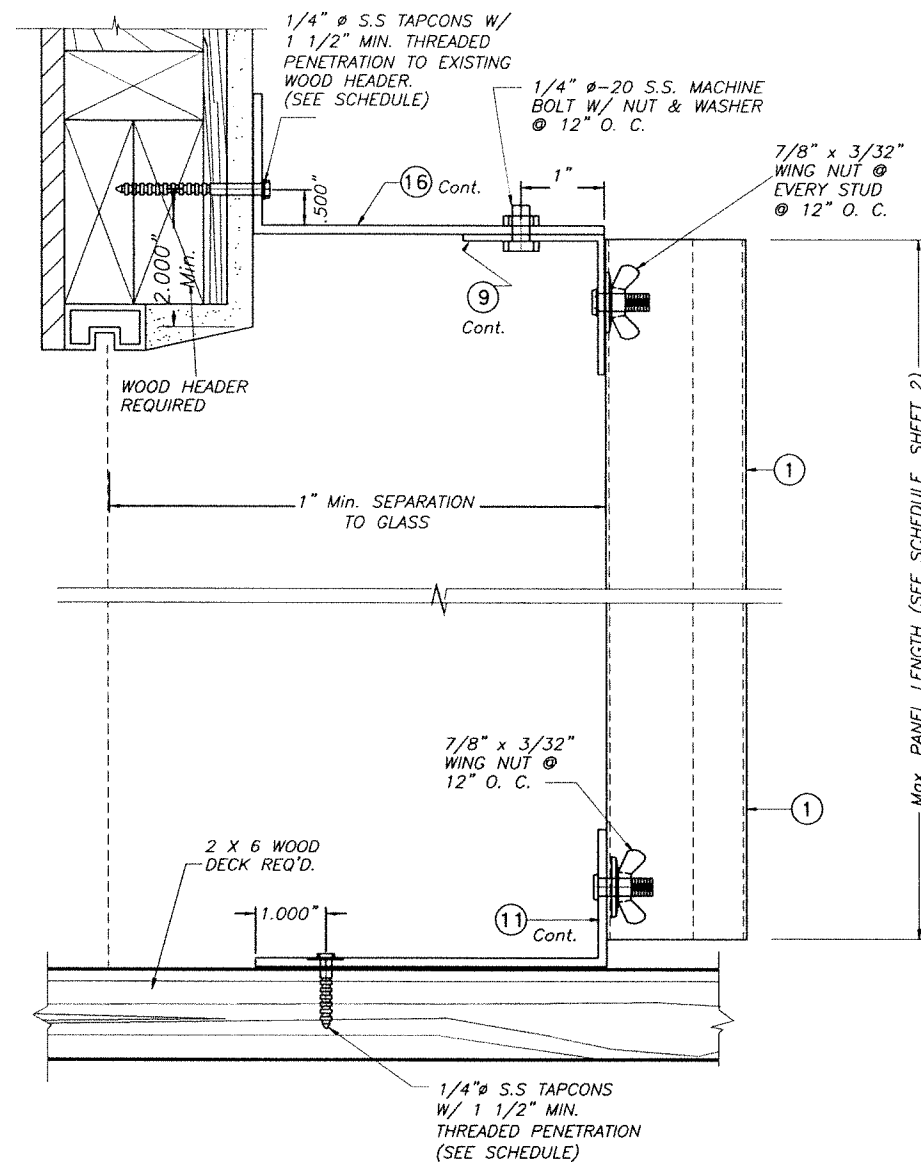
7/24/2026
DATE:

26-234

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		

SHEET 14A OF 17



ALTERNATIVE 13

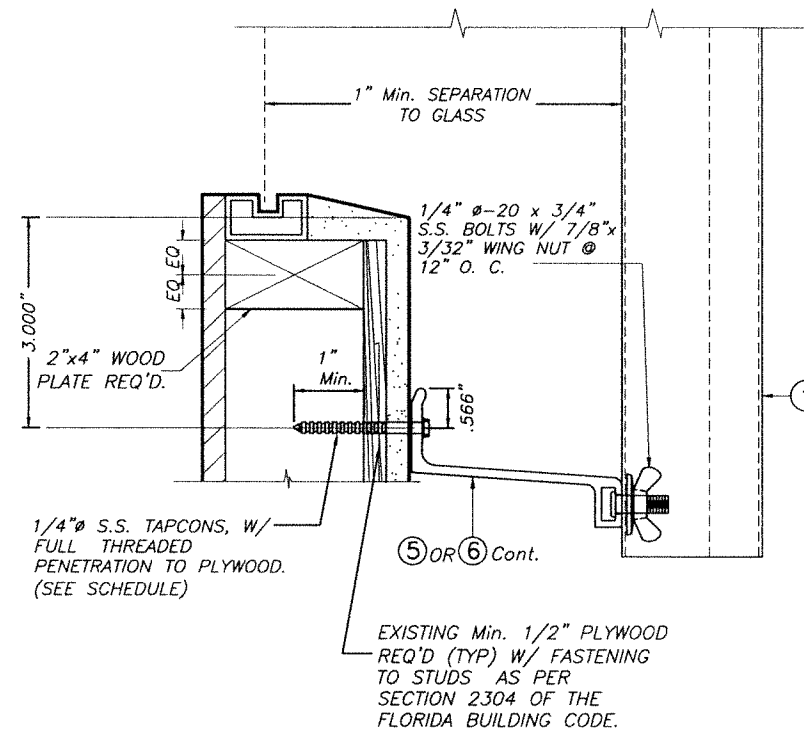
SCALE : 1/2" = 1"

NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING AND PANEL'S LENGTHS AS PER SCHEDULES ON SHEET 2
2. SEE ANCHOR SCHEDULE ON SHEET 16 & 17.
3. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

NOTE FOR COMBINATION OF SECTIONS :

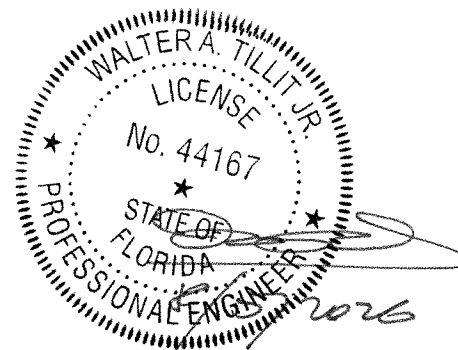
WALL MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



ALTERNATIVE 14

SCALE : 1/2" = 1"

- * VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING +50.0, -60.0 p.s.f. FOR UP TO 78" PANELS LENGTHS, AND FOR +50.0, -50.0 p.s.f., FOR PANEL LENGTHS GREATER THAN 78" UP TO 108"



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DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		

SHEET 15 OF 17

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR
 SPACING SCHEDULE FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS

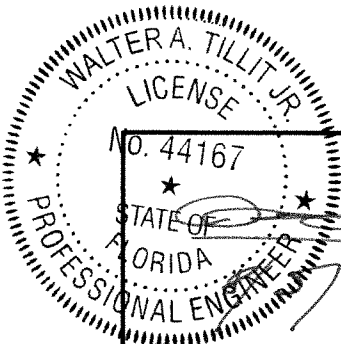
MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	WOOD FASTENERS		APPLICABLE TO ALTERNATIVES # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	S.S. TAPCONS OR ULTRACONS	1/4" # S.S. RODS, PANEL MATES OR PANEL MATE TVAS		
+40.0, -40.0 OR LESS	12"	N/A	1 (TOP)	8'-0" OR LESS
	12"	N/A	1 (BOTTOM)	
	12"	N/A	2 (TOP)	
	9"	N/A	2 (BOTTOM)	
	9"	N/A	3A (TOP)	
	9"	N/A	3 (BOTTOM)	
	12"	N/A	4 (TOP)	
	12"	N/A	4 (BOTTOM)	
	9"	N/A	5A (TOP)	
	9"	N/A	5 (BOTTOM)	
	9"	N/A	6 (BOTTOM)	
	8 1/2"	N/A	7 (BOTTOM)	
	N/A	12"	8 (TOP)	
	N/A	12"	8 (BOTTOM)	
	N/A	12"	9 (TOP)	
	12"	N/A	9 (BOTTOM)	
	6"	N/A	10 (BOTTOM)	
	9"	9"	11A (TOP)	
	4"	4"	11 (BOTTOM)	
	6"	N/A	13 (TOP)	
	6"	N/A	13 (BOTTOM)	
	4"	4"	14 (BOTTOM)	

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	WOOD FASTENERS		APPLICABLE TO ALTERNATIVES # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	S.S. TAPCONS OR ULTRACONS	1/4" # S.S. RODS, PANEL MATES OR PANEL MATE TVAS		
+40.0, -40.0 OR LESS	12"	N/A	1 (TOP)	>8'-0" UP TO 13'-0" *
	12"	N/A	1 (BOTTOM)	
	12"	N/A	2 (TOP)	
	9"	N/A	2 (BOTTOM)	
	9"	N/A	3A (TOP)	
	9"	N/A	3 (BOTTOM)	
	12"	N/A	4 (TOP)	
	12"	N/A	4 (BOTTOM)	
	9"	N/A	5A (TOP)	
	5 1/2"	N/A	5 (BOTTOM)	
	5 1/2"	N/A	6 (BOTTOM)	
	5 "	N/A	7 (BOTTOM)	
	N/A	12"	8 (TOP) *	
	N/A	12"	8 (BOTTOM) *	
	N/A	12"	9 (TOP)	
	12"	N/A	9 (BOTTOM)	
	5 1/2"	N/A	10 (BOTTOM)	
	9"	9"	11A (TOP)	
	4" **	4" **	11 (BOTTOM) **	
	6"	N/A	13 (TOP)	
	5 1/2"	N/A	13 (BOTTOM)	
	4" **	4" **	14 (BOTTOM)**	

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	WOOD FASTENERS		APPLICABLE TO ALTERNATIVES # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	S.S. TAPCONS OR ULTRACONS	1/4" # S.S. RODS, PANEL MATES OR PANEL MATE TVAS		
+40.0, -40.0 UP TO +60.0, -60.0	12"	N/A	1 (TOP)	8'-0" OR LESS
	12"	N/A	1 (BOTTOM)	
	12"	N/A	2 (TOP)	
	9"	N/A	2 (BOTTOM)	
	9"	N/A	3A (TOP)	
	9"	N/A	3 (BOTTOM)	
	12"	N/A	4 (TOP)	
	12"	N/A	4 (BOTTOM)	
	9"	N/A	5A (TOP)	
	8"	N/A	5 (BOTTOM)	
	8"	N/A	6 (BOTTOM)	
	5 1/2"	N/A	7 (BOTTOM)	
	N/A	12"	8 (TOP)	
	N/A	12"	8 (BOTTOM)	
	N/A	12"	9 (TOP)	
	12"	N/A	9 (BOTTOM)	
	6"	N/A	10 (BOTTOM)	
	9"	9"	11A (TOP)	
	4" *	4" *	11 (BOTTOM) *	
	6"	N/A	13 (TOP)	
	6"	N/A	13 (BOTTOM)	
	4" *	4" *	14 (BOTTOM) *	

* USE 6" OC SPACING FOR PANEL LENGTHS LARGER THAN 10' - 0" AND USE 12" OC
 AS SHOWN ON SCHEDULE FOR PANELS LENGTHS EQUAL OR SHORTER THAN 10' - 0"
 ** VALID ONLY FOR UP TO 108" PANELS LENGTHS.

* VALID ONLY FOR UP TO +50.0, -60.0 p.s.f. MAX. A.S.D. DESIGN PRESSURE
 RATING WITH 78" Max. PANEL LENGTHS OR FOR UP TO +50.0, -50.0 p.s.f.
 MAX. A.S.D. DESIGN PRESSURE RATING WITH 96" Max. PANEL LENGTHS.



P.E. SEAL/SIGNATURE/DATE

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0.050" BERTHA ALUMINUM STORM PANEL
 (2.00" DEEP)

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 FAX: (561)841-1716

W.H.

DRAWN BY:

7/24/2026
 DATE:

26-234

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		

**MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR
SPACING SCHEDULE FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS**

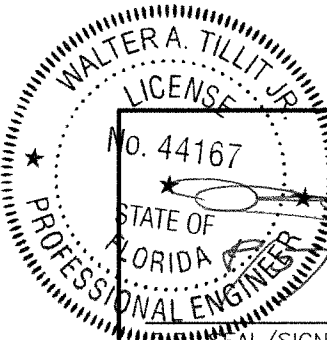
MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	WOOD FASTENERS		APPLICABLE TO ALTERNATIVES # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	S.S. TAPCONS OR ULTRACONS	1/4" # S.S. RODS, PANEL MATES OR PANEL MATE TVAS		
+60.0, -60.0 UP TO +80.0, -90.0	11"	N/A	1 (TOP)	9'-0" OR LESS
	11"	N/A	1 (BOTTOM)	
	11"	N/A	2 (TOP)	
	9"	N/A	2 (BOTTOM)	
	9"	N/A	3A (TOP)	
	9"	N/A	3 (BOTTOM)	
	11"	N/A	4 (TOP)	
	11"	N/A	4 (BOTTOM)	
	9"	N/A	5A (TOP)	
	3 1/2"	N/A	5 (BOTTOM)	
	3 1/2"	N/A	6 (BOTTOM)	
	3 1/2"	N/A	7 (BOTTOM)	
	N/A	6"	8 (TOP)	
	N/A	6"	8 (BOTTOM)	
	N/A	6"	9 (TOP)	
	11"	N/A	9 (BOTTOM)	
	3 1/2"	N/A	10 (BOTTOM)	
	9"	9"	11A (TOP)	
	N/A	N/A	11 (BOTTOM)	
	6"	N/A	13 (TOP)	
	3 1/2"	N/A	13 (BOTTOM)	
	N/A	N/A	14 (BOTTOM)	

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	WOOD FASTENERS		APPLICABLE TO ALTERNATIVES # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	S.S. TAPCONS OR ULTRACONS	1/4" # S.S. RODS, PANEL MATES OR PANEL MATE TVAS		
+40.0, -40.0 UP TO +60.0, -60.0	12"	N/A	1 (TOP)	>8'-0" UP TO 12'-6"
	12"	N/A	1 (BOTTOM)	
	12"	N/A	2 (TOP)	
	12"	N/A	2 (BOTTOM)	
	12"	N/A	3A (TOP)	
	12"	N/A	3 (BOTTOM)	
	12"	N/A	4 (TOP)	
	12"	N/A	4 (BOTTOM)	
	12"	N/A	5A (TOP)	
	4"	N/A	5 (BOTTOM)	
	4"	N/A	6 (BOTTOM)	
	3 1/2"	N/A	7 (BOTTOM)	
	N/A	6" *	8 (TOP) *	
	N/A	6" *	8 (BOTTOM) *	
	N/A	6"	9 (TOP)	
	12"	N/A	9 (BOTTOM)	
	4"	N/A	10 (BOTTOM)	
	12"	10 1/2"	11A (TOP)	
	4" **	4" **	11 (BOTTOM) **	
	12"	N/A	13 (TOP)	
	4"	N/A	13 (BOTTOM)	
	4" **	4" **	14 (BOTTOM) **	

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	WOOD FASTENERS		APPLICABLE TO ALTERNATIVES # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	S.S. TAPCONS OR ULTRACONS	1/4" # S.S. RODS, PANEL MATES OR PANEL MATE TVAS		
+90.0, -90.0 UP TO +100.0, -130.0	8 1/2"	N/A	1 (TOP)	7'-0" OR LESS
	9"	N/A	1 (BOTTOM)	
	9"	N/A	2 (TOP)	
	9"	N/A	2 (BOTTOM)	
	8"	N/A	3A (TOP)	
	9"	N/A	3 (BOTTOM)	
	9"	N/A	4 (TOP)	
	9"	N/A	4 (BOTTOM)	
	8"	N/A	5A (TOP)	
	3"	N/A	5 (BOTTOM)	
	3"	N/A	6 (BOTTOM)	
	3"	N/A	7 (BOTTOM)	
	N/A	6"	8 (TOP)	
	N/A	6"	8 (BOTTOM)	
	N/A	6"	9 (TOP)	
	9"	N/A	9 (BOTTOM)	
	3"	N/A	10 (BOTTOM)	
	5"	6"	11A (TOP)	
	N/A	N/A	11 (BOTTOM)	
	6"	N/A	13 (TOP)	
	3"	N/A	13 (BOTTOM)	
	N/A	N/A	14 (BOTTOM)	

* USE 6" OC SPACING FOR PANEL LENGTHS LARGER THAN 10' - 0" AND USE 12" OC AS SHOWN ON SCHEDULE FOR PANELS LENGTHS EQUAL OR SHORTER THAN 10' - 0"

** VALID ONLY FOR UP TO +50.0, -50.0 p.s.f. MAX. A.S.D. DESIGN PRESSURE RATING WITH 108" Max. PANEL LENGTHS.



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SHEET 17 OF 17

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-164	7/24/26	3		
2			4		