

GENERAL NOTES:

1. STORM PANEL SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2020 (7th 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 7-16** SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 5, 10 THRU 15.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER **ASCE 7-16** SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 5, 10 THRU 15.

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 # 1128.01-00 AND #0610.02-05, 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.

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. ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2015 ALUMINUM DESIGN MANUAL.

4. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 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" ϕ TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX, RESPECTIVELY.
- 1/4" ϕ x 7/8" CALK-IN ANCHORS OR ELCO male & female "PANELMATE" AS MANUFACTURED BY DEWALT, INC. AND ELCO CONSTRUCTION PRODUCTS.
- 1/4" ϕ 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 AND ELCO PANELMATE ANCHORS IS 1 3/4";
- A.2) 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" ϕ -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" ϕ 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" ϕ -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:

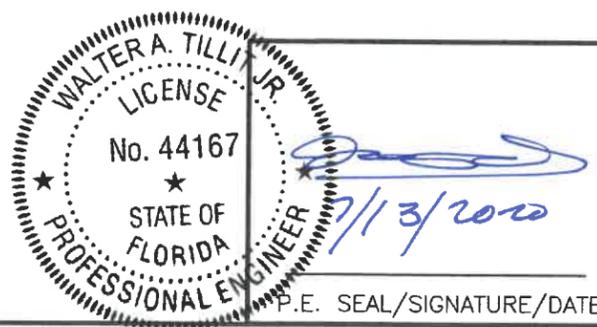
- 1/4" ϕ TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX.
- 1/4" ϕ x 7/8" CALK-IN ANCHORS OR ELCO male & female "PANELMATE" AS MANUFACTURED BY DEWALT, INC. AND ELCO CONSTRUCTION PRODUCTS, RESPECTIVELY.
- 1/4" ϕ x 3/4" ALL POINTS SOLID-SET ANCHORS AS DISTRIBUTED BY ALL POINTS SCREW, BOLT & SPECIALTY COMPANY.

NOTES:

- B.1) MINIMUM EMBEDMENT OF TAPCON AND ELCO PANELMATE ANCHORS INTO CONCRETE BLOCK UNIT SHALL BE 1 1/4".
 - 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" ϕ -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" ϕ 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" ϕ -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 9 (SHEET 3 & 5 OF 15) EXCEPT THAT HEADERS 2, 3 & 4 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. (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) 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

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)



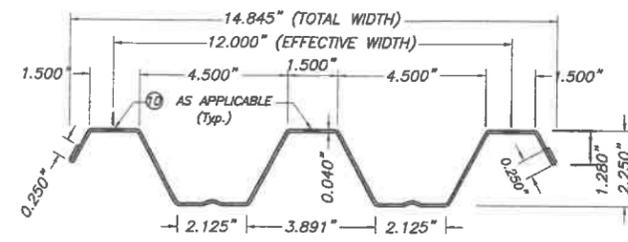
P.E. SEAL/SIGNATURE/DATE

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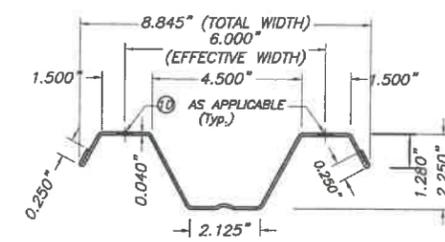
TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th. St., Ste. 305 VIRGINIA GARDENS, FLORIDA 33166
 Phone : (305)871-1530 . Fax : (305)871-1531
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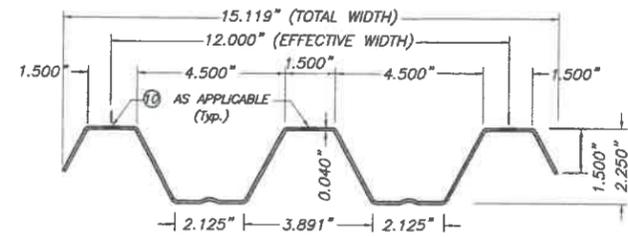
0.040" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)			M.P. DRAWN BY:		
EASTERN METAL SUPPLY, INC			7/8/2020 DATE		
4268 WESTROADS DRIVE WEST PALM BEACH, FL 33407 Phone: (800)432-2204 Fax: (561)209-8380			20-180 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-094	7/8/2020	3	-	-
2	-	-	4	-	-
SHEET 1 OF 15					



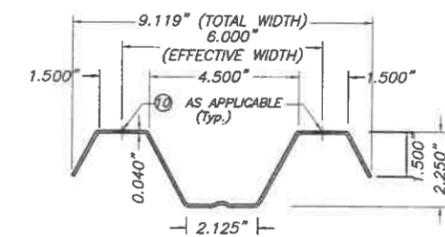
FULL PANEL W/ HEMMED EDGES



HALF PANEL W/ HEMMED EDGES

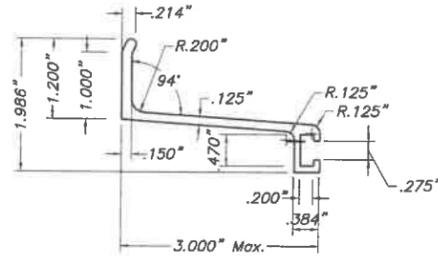


OPTIONAL FULL PANEL W/O HEMMED EDGES

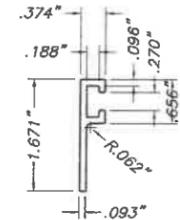


OPTIONAL HALF PANEL W/O HEMMED EDGES

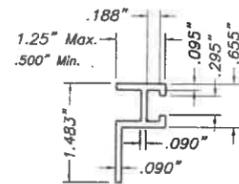
1 STORM PANEL
SCALE: 3/16" = 1"



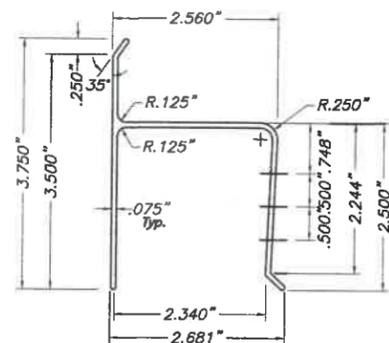
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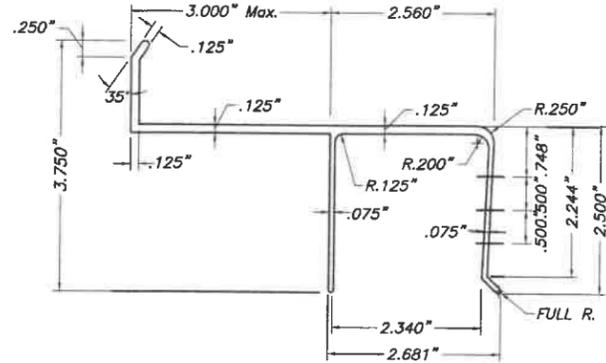
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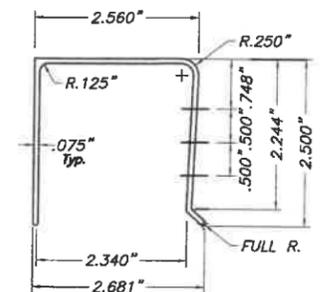
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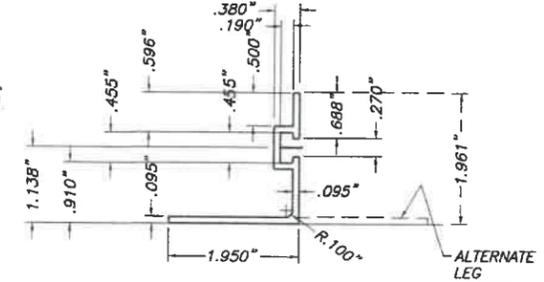
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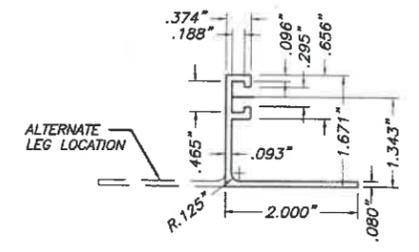
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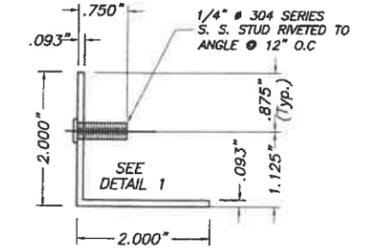
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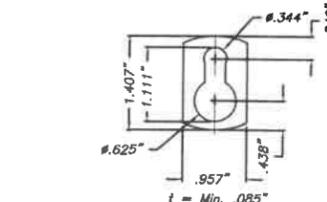
7 REVERSED F\"/>



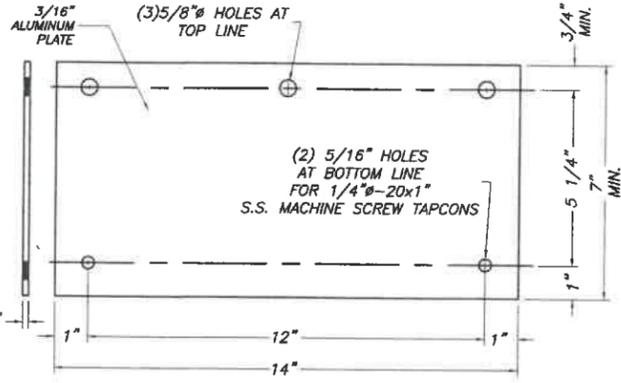
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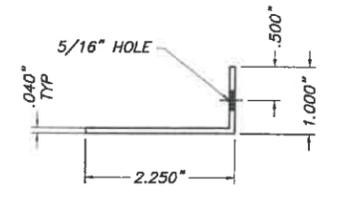
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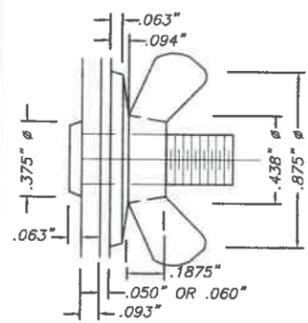
11 KEY HOLE WASHER
3105-H154 Alum. ALLOY
SCALE: 3/8\"/>



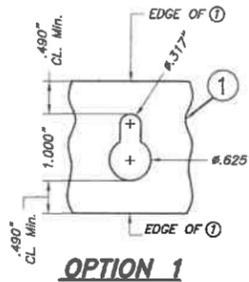
16 3/16\"/>



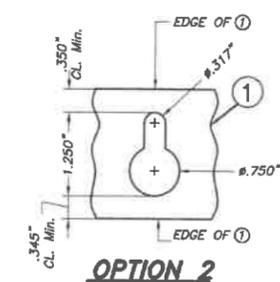
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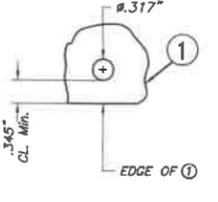
DETAIL 1: STUD W/ DIE CAST ZINC NICKEL PLATED WING NUT



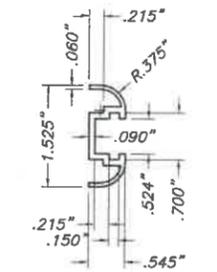
OPTION 1



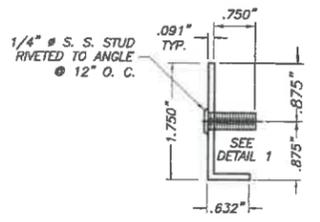
OPTION 2



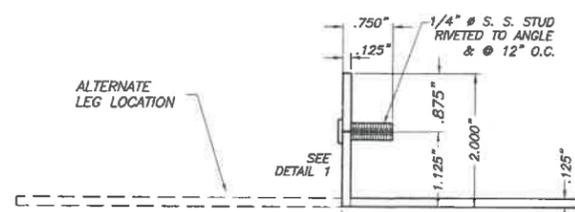
10A ROUND HOLE AT PANEL (OPTION TO 10)



15 C\"/>



12 MINI WALL 1.75\"/>



13 2\"/>

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

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
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e-mail: tilteco@aol.com
CA-0006719
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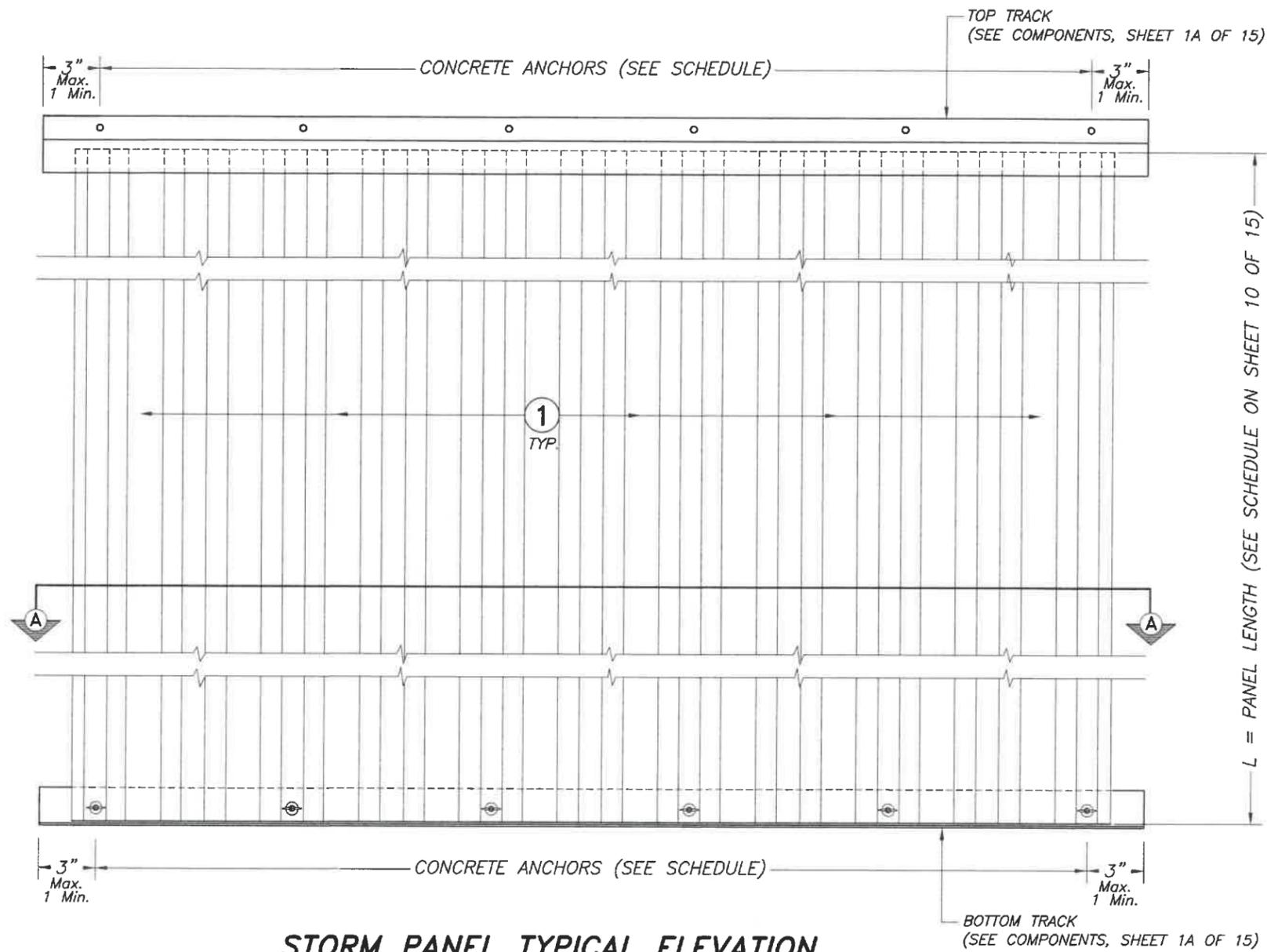
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-094	7/8/2020	3	-	-
2	-	-	4	-	-

M.P.
DRAWN BY:
7/8/2020
DATE
20-180
DRAWING No
SHEET 1A OF 15

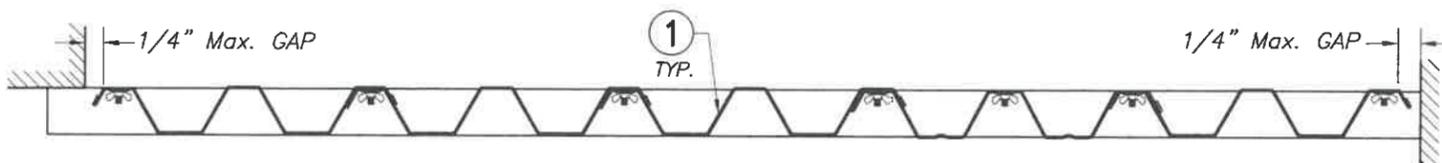
COMPONENTS

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)



STORM PANEL TYPICAL ELEVATION

SCALE : 1/8" = 1"



SECTION A-A

SCALE : 1/8" = 1"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

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 LICENSE
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SEAL/SIGNATURE/DATE

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0.040" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)

EASTERN METAL SUPPLY, INC

4268 WESTROADS DRIVE
 WEST PALM BEACH, FL 33407
 Phone: (800)432-2204
 Fax: (561)209-8380

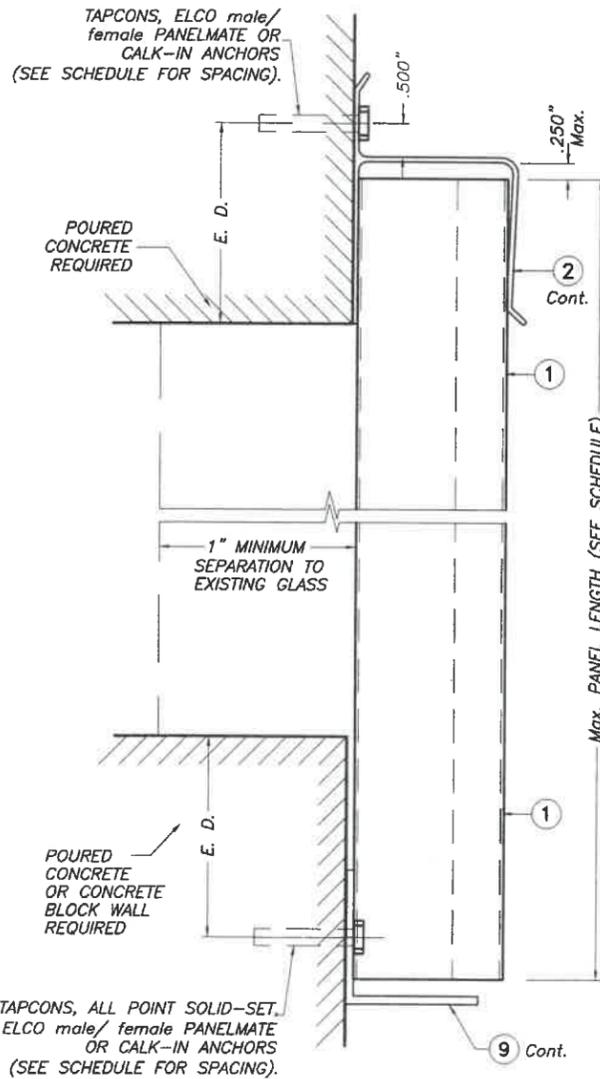
M.P.
DRAWN BY:

7/8/2020
DATE

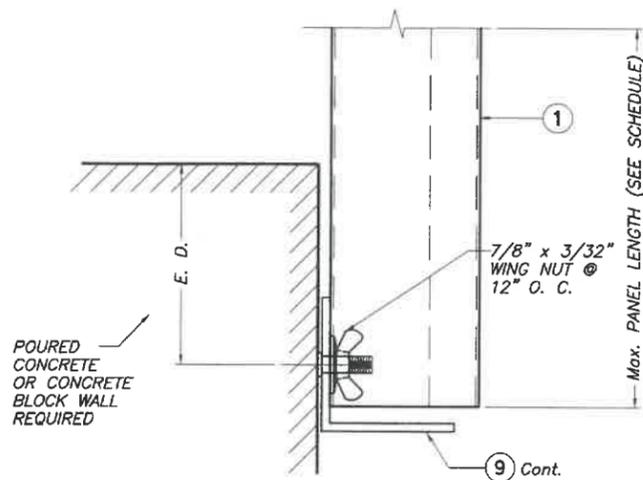
20-180
DRAWING No

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SHEET 2 OF 15



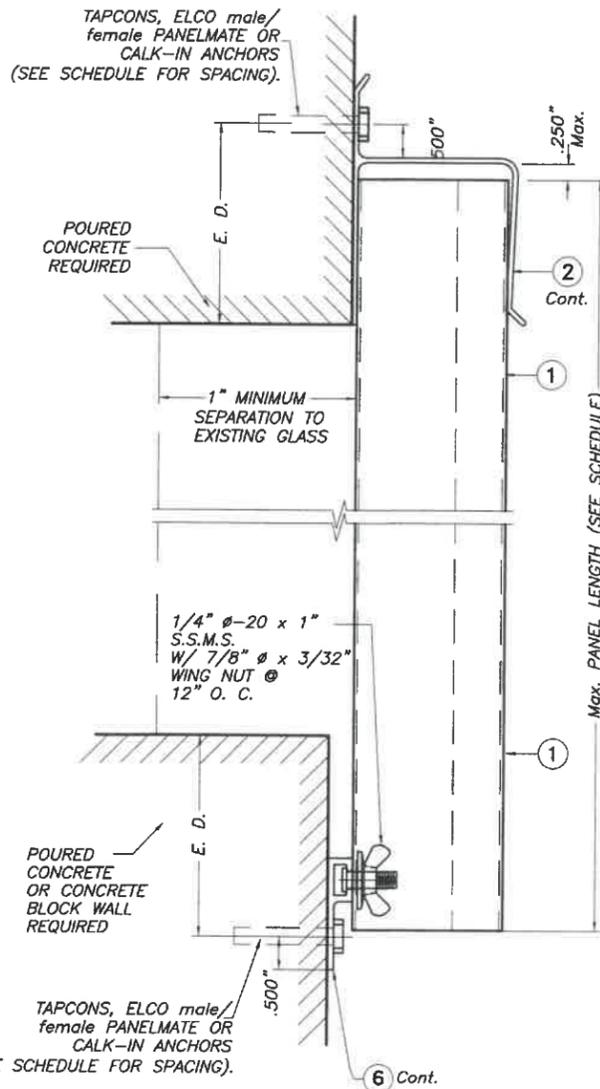
SECTION @ ANCHOR



SECTION @ STUD

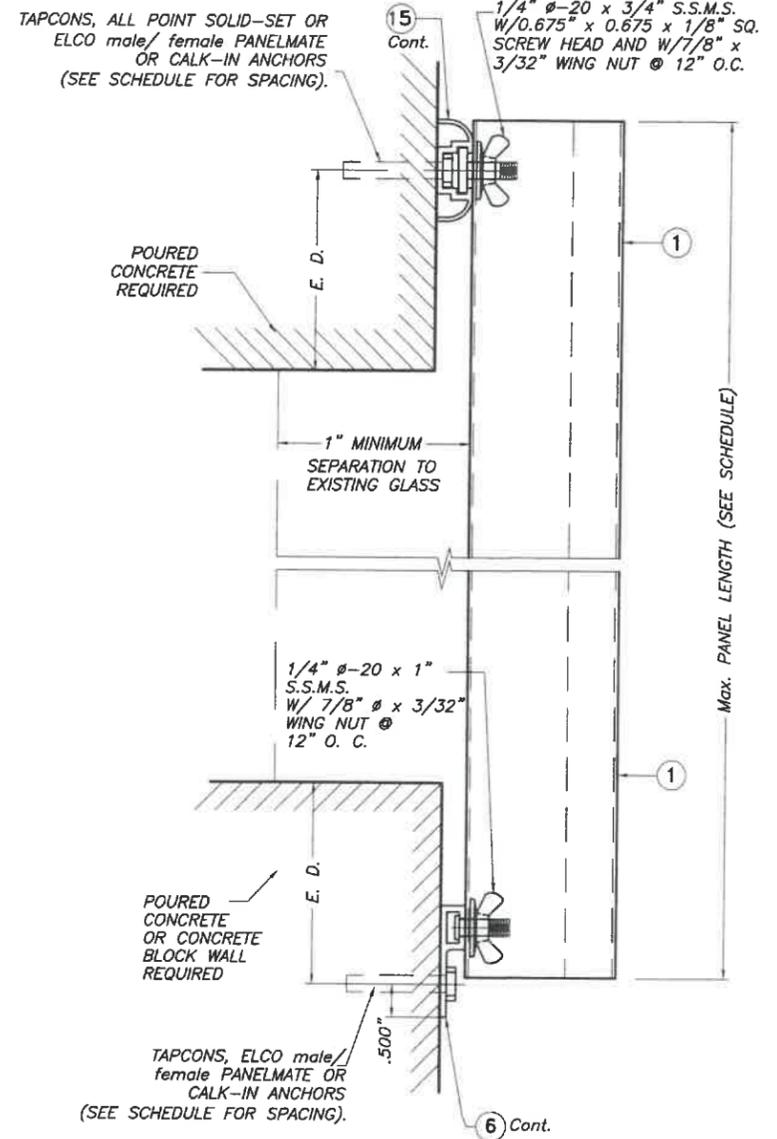
**WALL MOUNTING INSTALLATION
SECTION 1**

SCALE : 3/8" = 1"



**WALL MOUNTING INSTALLATION
SECTION 2**

SCALE : 3/8" = 1"



**WALL MOUNTING INSTALLATION
SECTION 3**

SCALE : 3/8" = 1"

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEETS 10 OF 15)

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

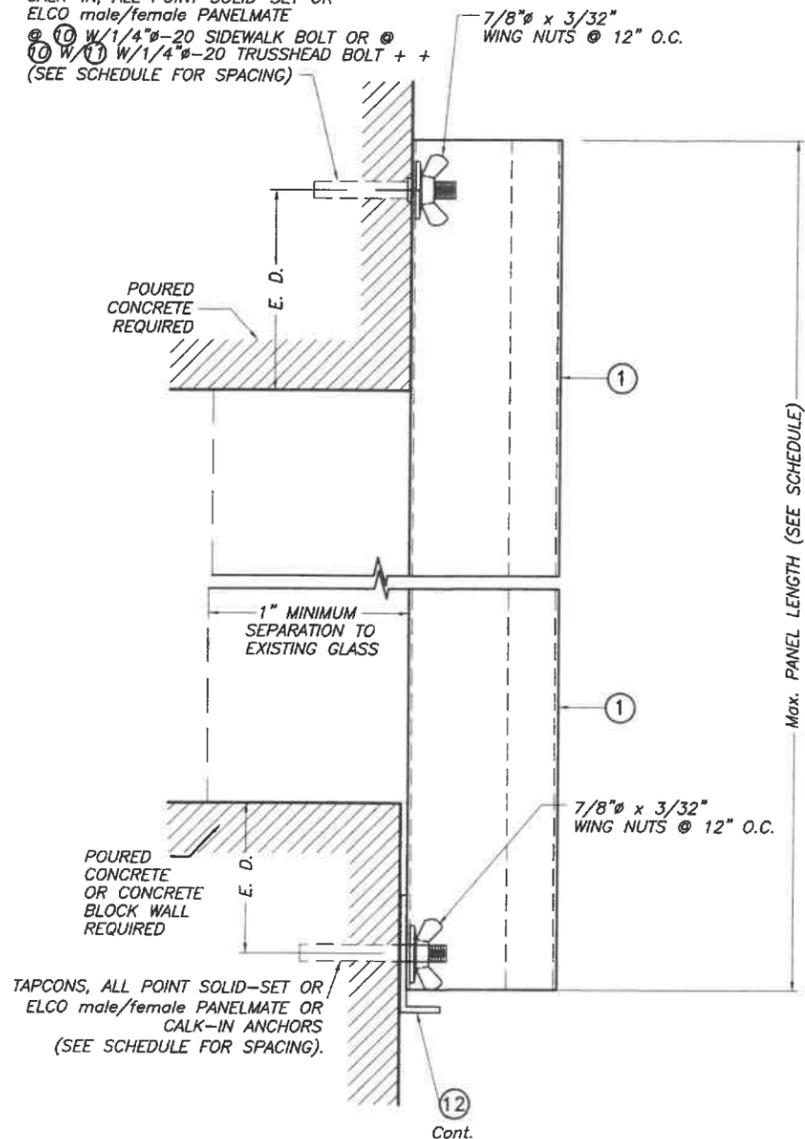
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7/13/2020
P.E. SEAL/SIGNATURE/DATE

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e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

0.040" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)			M.P DRAWN BY:		
EASTERN METAL SUPPLY, INC 4268 WESTROADS DRIVE WEST PALM BEACH, FL 33407 Phone: (800)432-2204 Fax: (561)209-8380			7/8/2020 DATE		
			20-180 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 17-094	7/8/2020	3	-	-
2	-	-	4	-	-

CALK-IN, ALL POINT SOLID-SET OR ELCO male/female PANELMATE
 ⑩ W/ 1/4" Ø-20 SIDEWALK BOLT OR ⑪ W/ 1/4" Ø-20 TRUSSHEAD BOLT + + (SEE SCHEDULE FOR SPACING)
 7/8" Ø x 3/32" WING NUTS @ 12" O.C.



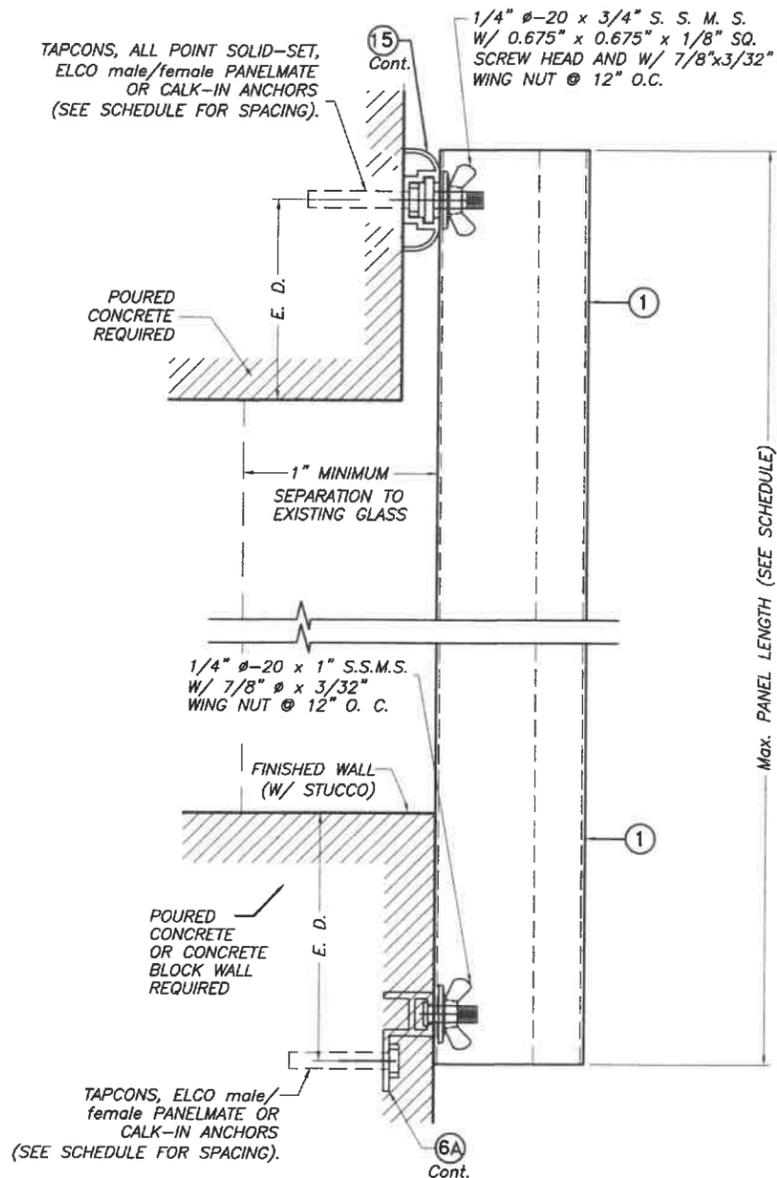
WALL MOUNTING INSTALLATION
SECTION 4 SCALE : 3/8" = 1"

E. D. = EDGE DISTANCE
 (SEE SCHEDULE ON SHEETS 10 OF 15)

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 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 SCREW W/LENGTH AS PER NOTES A.2 & B.2 (SHEET 1)

TAPCONS, ALL POINT SOLID-SET, ELCO male/female PANELMATE OR CALK-IN ANCHORS (SEE SCHEDULE FOR SPACING).

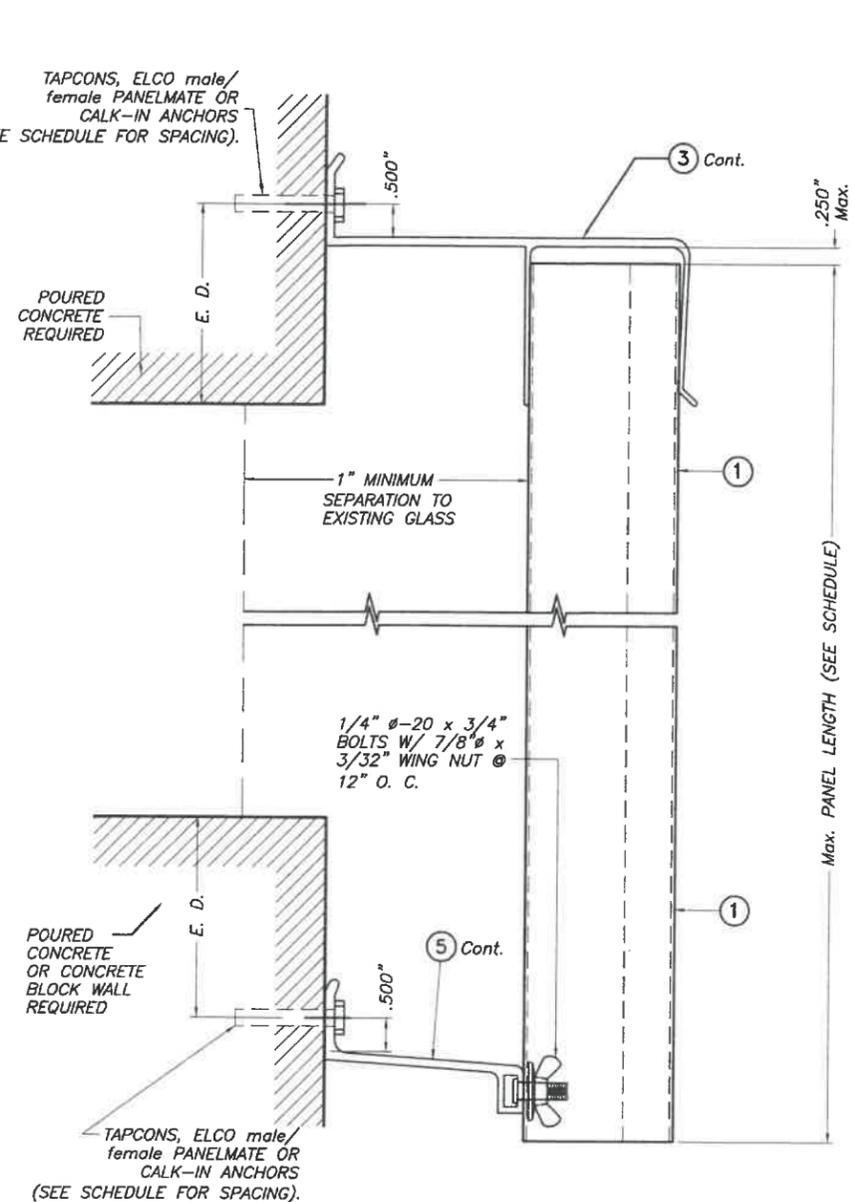


WALL MOUNTING INSTALLATION
SECTION 5 SCALE : 3/8" = 1"



P.E. SEAL/SIGNATURE/DATE

TAPCONS, ELCO male/female PANELMATE OR CALK-IN ANCHORS (SEE SCHEDULE FOR SPACING).



BUILD OUT INSTALLATION
SECTION 6 SCALE : 3/8" = 1"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

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0.040" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)

EASTERN METAL SUPPLY, INC

4268 WESTROADS DRIVE
 WEST PALM BEACH, FL 33407
 Phone: (800)432-2204
 Fax: (561)209-8380

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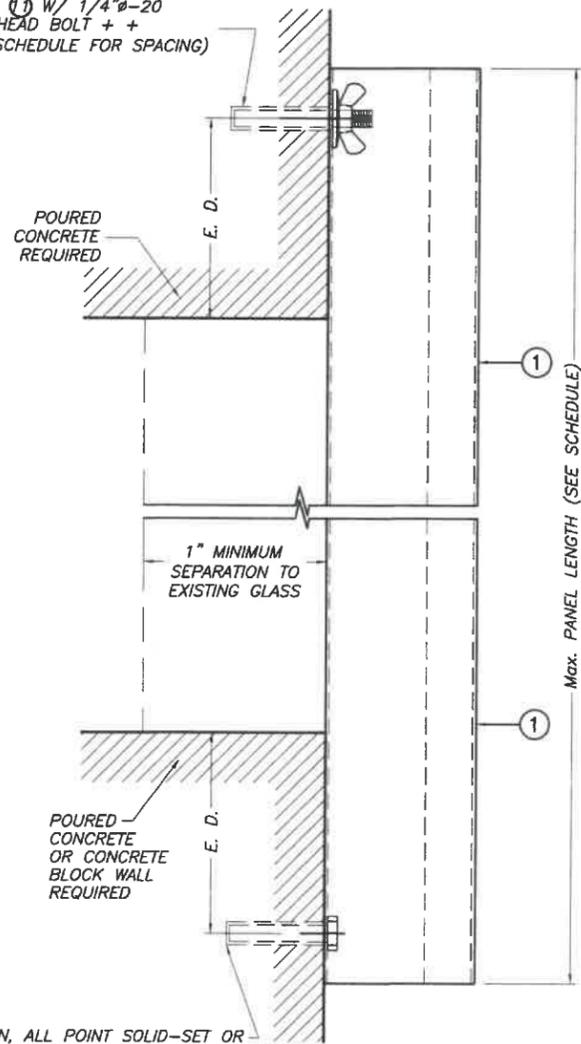
7/8/2020
 DATE

20-180
 DRAWING No

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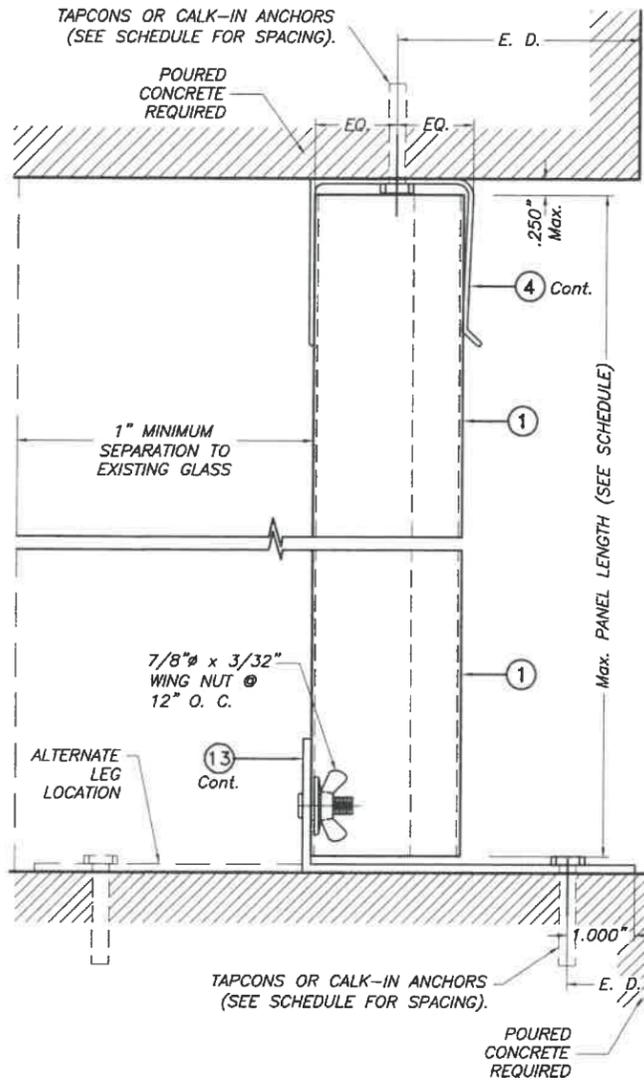
SHEET 4 OF 15

CALK-IN, ALL POINT SOLID-SET OR ELCO male/female PANELMATE Ⓢ ⑩
W/1/4"Ø-20 SIDEWALK BOLT OR Ⓢ
⑩ W/ ⑩ W/ 1/4"Ø-20 TRUSSHEAD BOLT + +
(SEE SCHEDULE FOR SPACING)

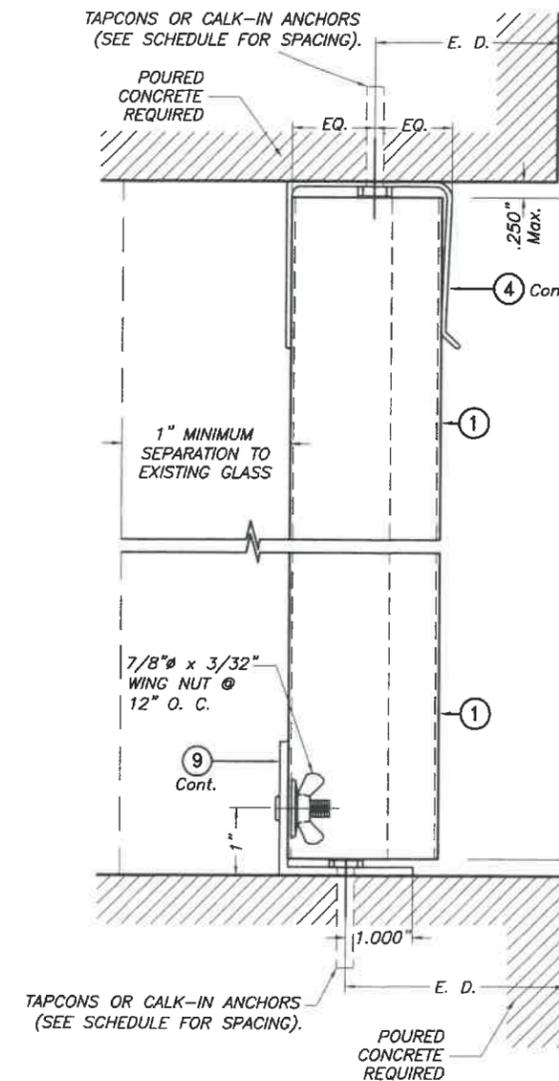


CALK-IN, ALL POINT SOLID-SET OR ELCO male/female PANELMATE Ⓢ ⑩
W/1/4"Ø-20 SIDEWALK BOLT OR Ⓢ
10 W/ ⑩ W/ 1/4"Ø-20 TRUSSHEAD BOLT + +
(SEE SCHEDULE FOR SPACING)

WALL MOUNTING INSTALLATION (D. M.)
SECTION 7 SCALE : 3/8" = 1"

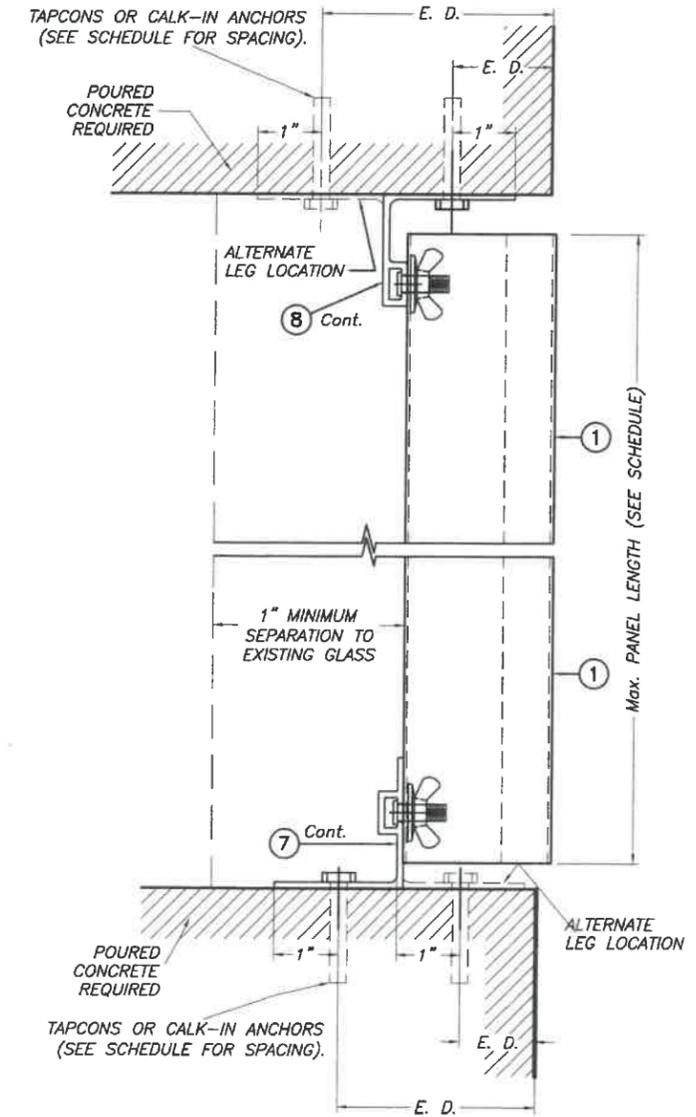


CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 8 SCALE : 3/8" = 1"



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

ALTERNATE CEILING & FLOOR MOUNTING INSTALLATION - SECTION 8A
VALID ONLY FOR Max. A.S.D DESIGN PRESSURE RATING OF +70, -75 PSF.



CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 9 SCALE : 3/8" = 1"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON SHEET 10 OF 15)

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"Øx3/32"THICK HEAD MACHINE SCREW W/LENGTH AS PER NOTES A.2 & B.2 (SHEET 1)
+ + TRUSS HEAD BOLTS ARE 1/2"Øx1/8"THICK HEAD MACHINE SCREW W/LENGTH AS PER NOTES A.2 & B.2 (SHEET 1)



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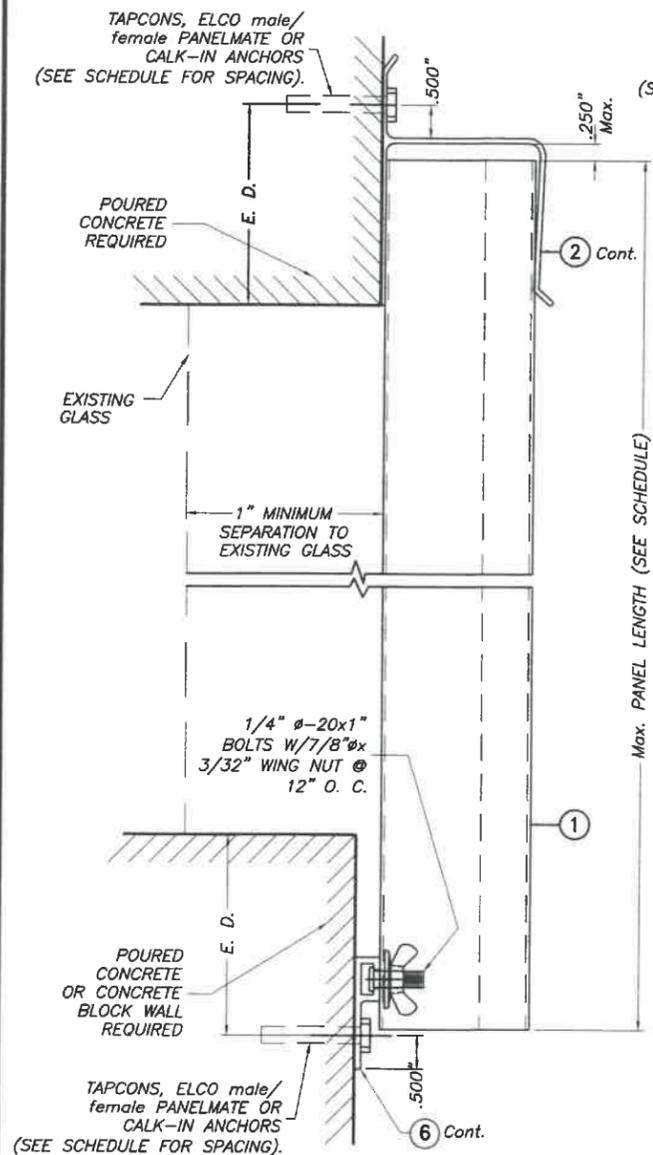
TILLIT TESTING & ENGINEERING COMPANY
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e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

0.040" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)

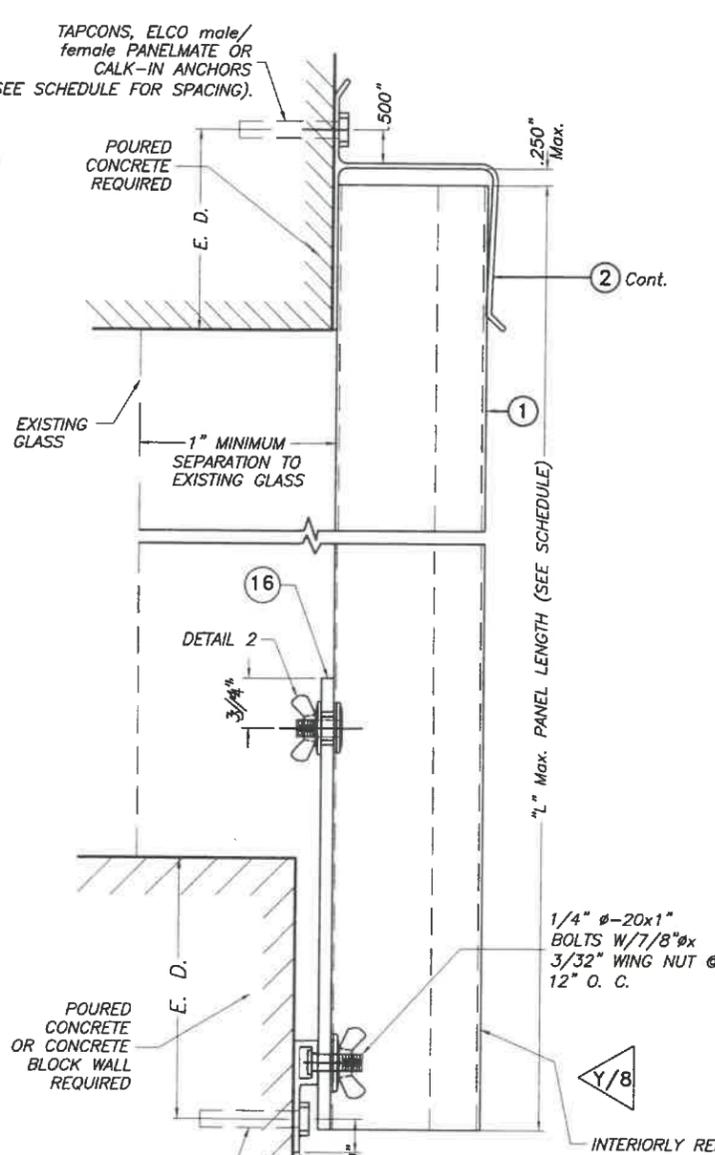
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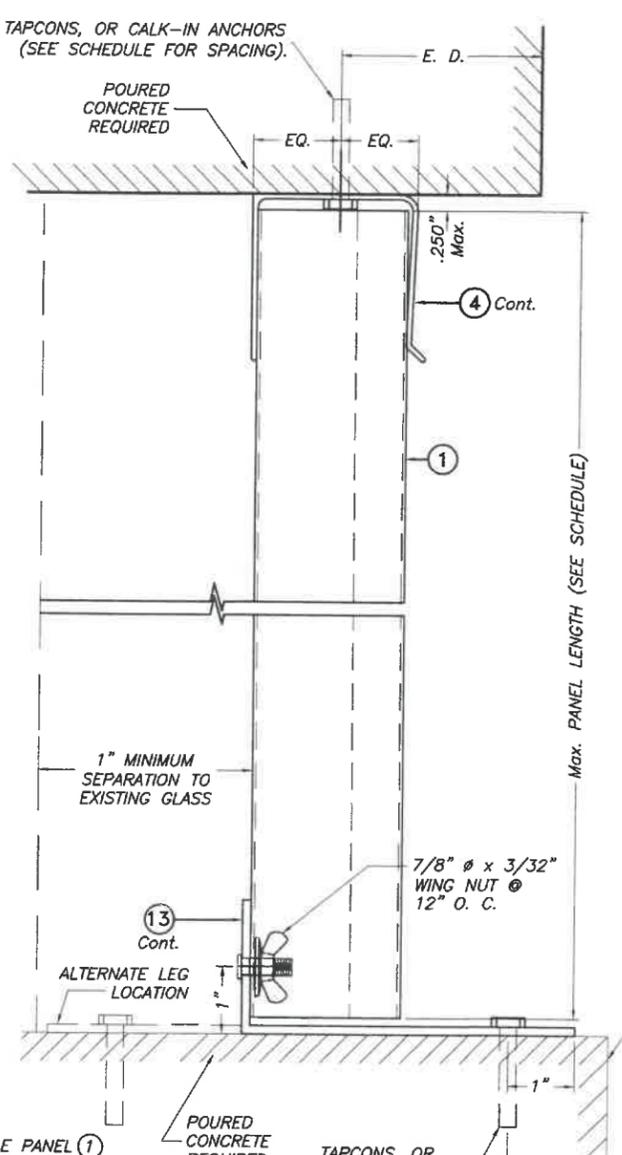
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SHEET 5 OF 15



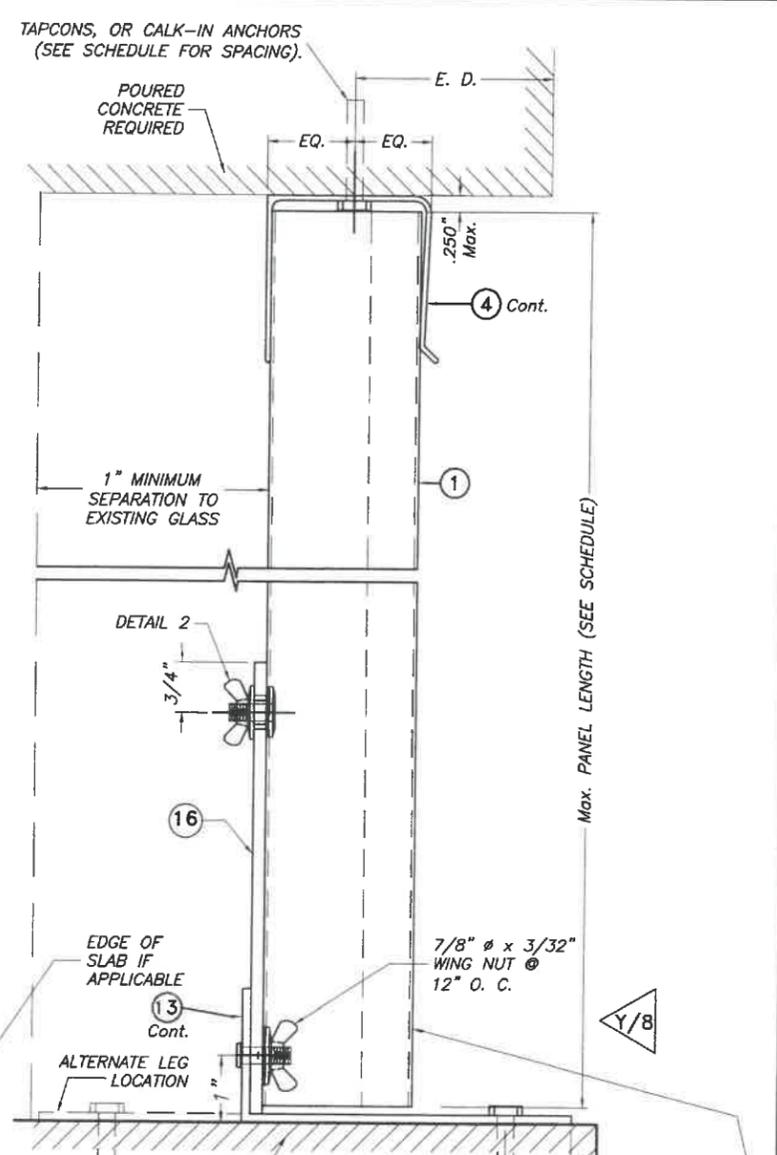
SECTION 10A



SECTION 10B



SECTION 11A

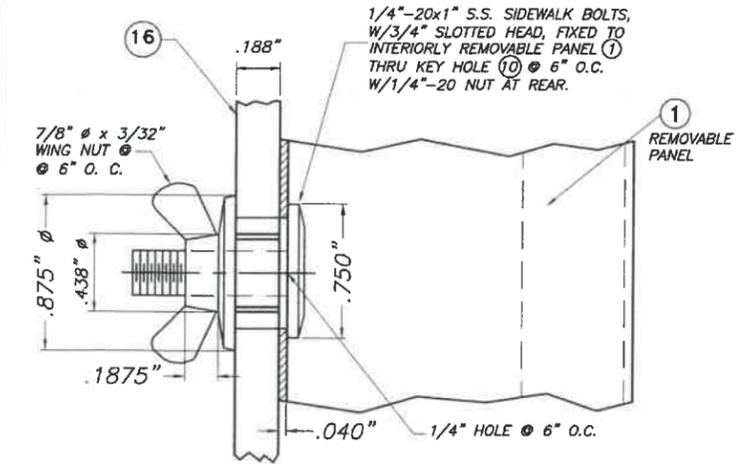


SECTION 11B

CEILING & FLOOR MOUNTING INSTALLATIONS

SECTIONS 11

SCALE : 3/8" = 1"



DETAIL 2 - INSTALLATION OF 1/4" x 1" SIDEWALK BOLTS @ REMOVABLE PANEL

SCALE: 1" = 1"

WALL MOUNTING INSTALLATIONS

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)

E. D. = EDGE DISTANCE (SEE SCHEDULE ON SHEET 10 OF 15)

NOTE FOR COMBINATION OF SECTIONS

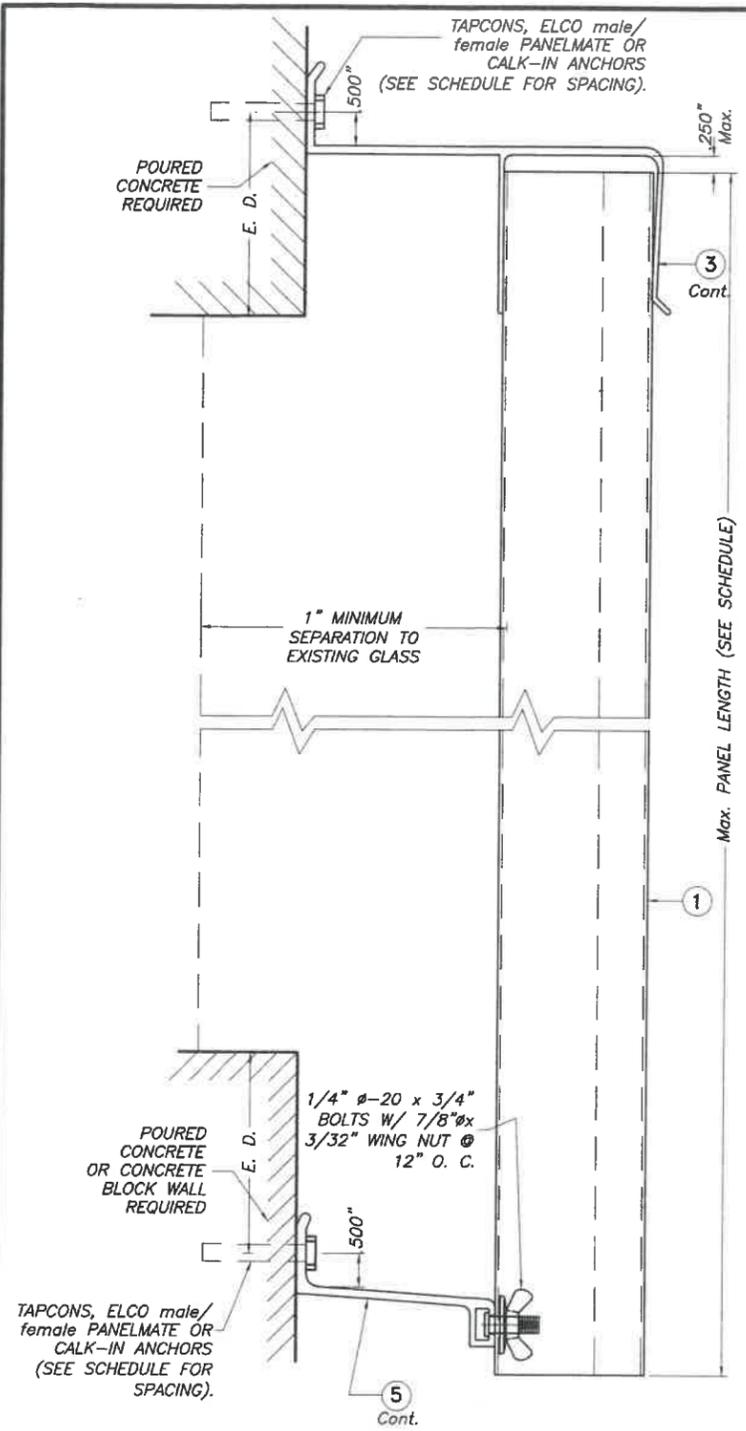
WALL/FLOOR/CEILING MOUNTING SECTIONS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION

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 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
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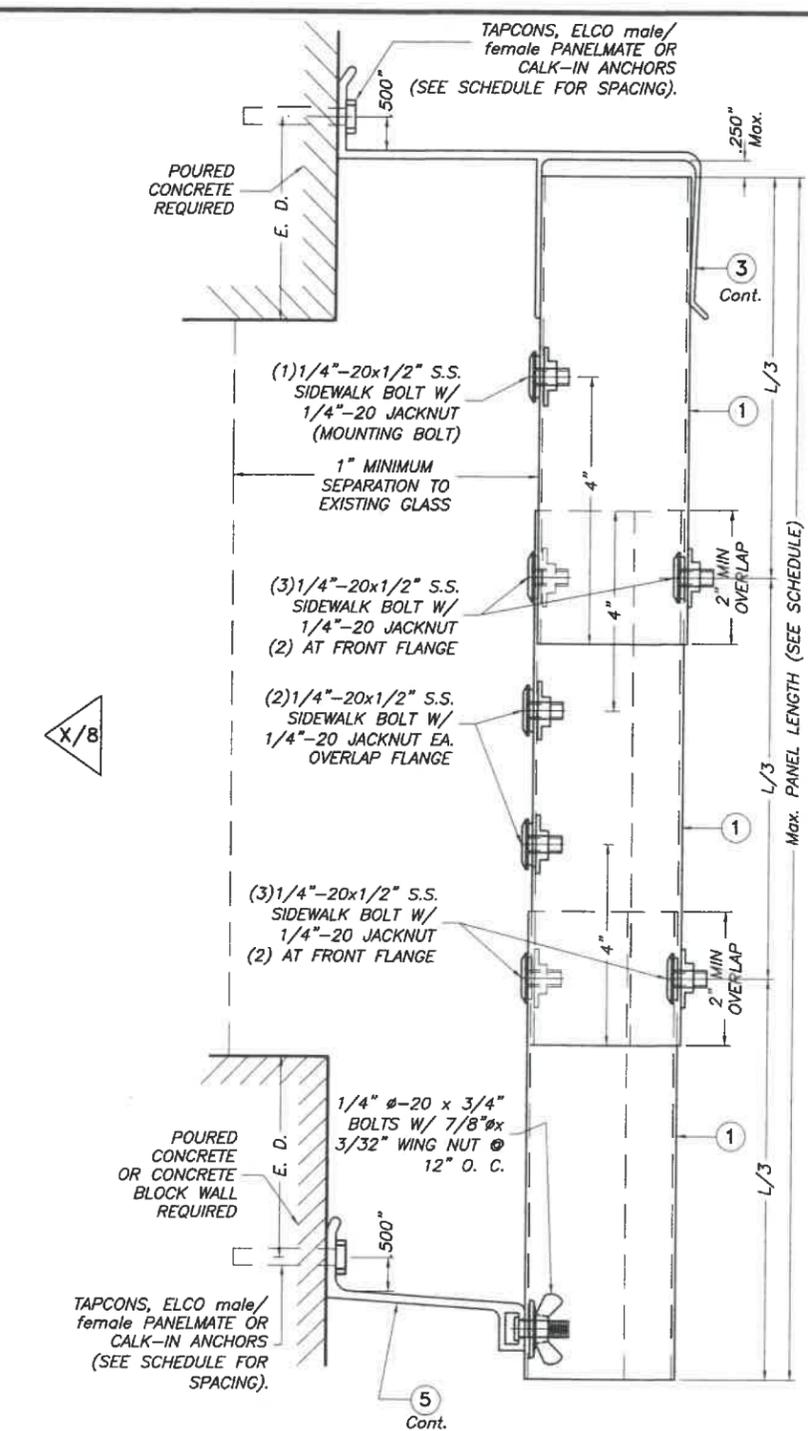
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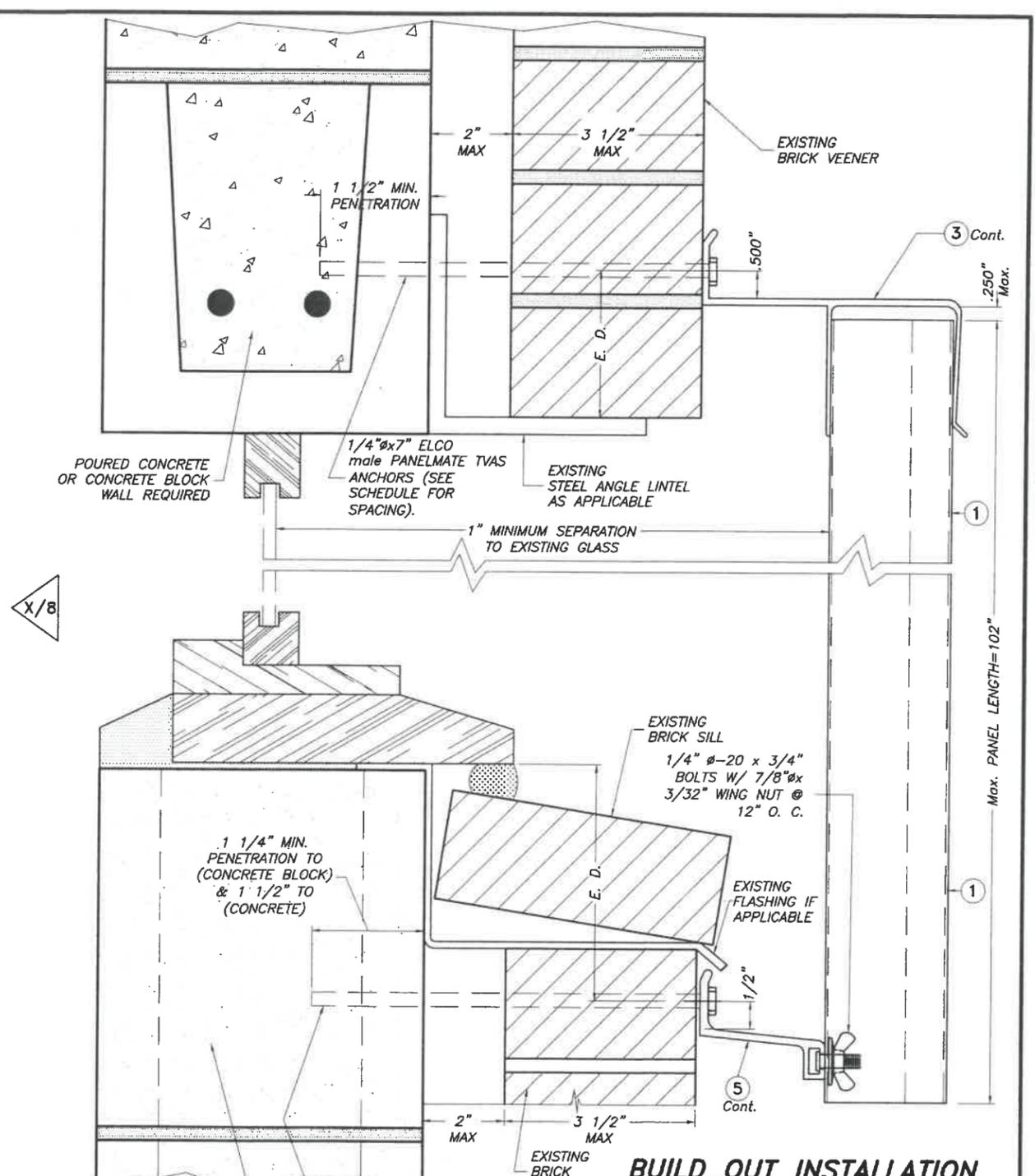


SECTIONS 12A



WALL MOUNTING INSTALLATIONS SECTIONS 12

SECTIONS 12
SCALE : 3/8" = 1"



SECTIONS 12B

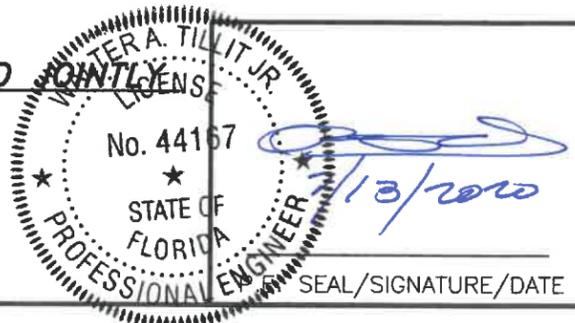
BUILD OUT INSTALLATION SECTION 13
SCALE : 3/8" = 1"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON SHEETS 10 OF 15)

INSTALLATIONS VALID FOR PANELS ① USED WITH INTERIORLY REMOVABLE PANELS ①

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



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0.040" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)

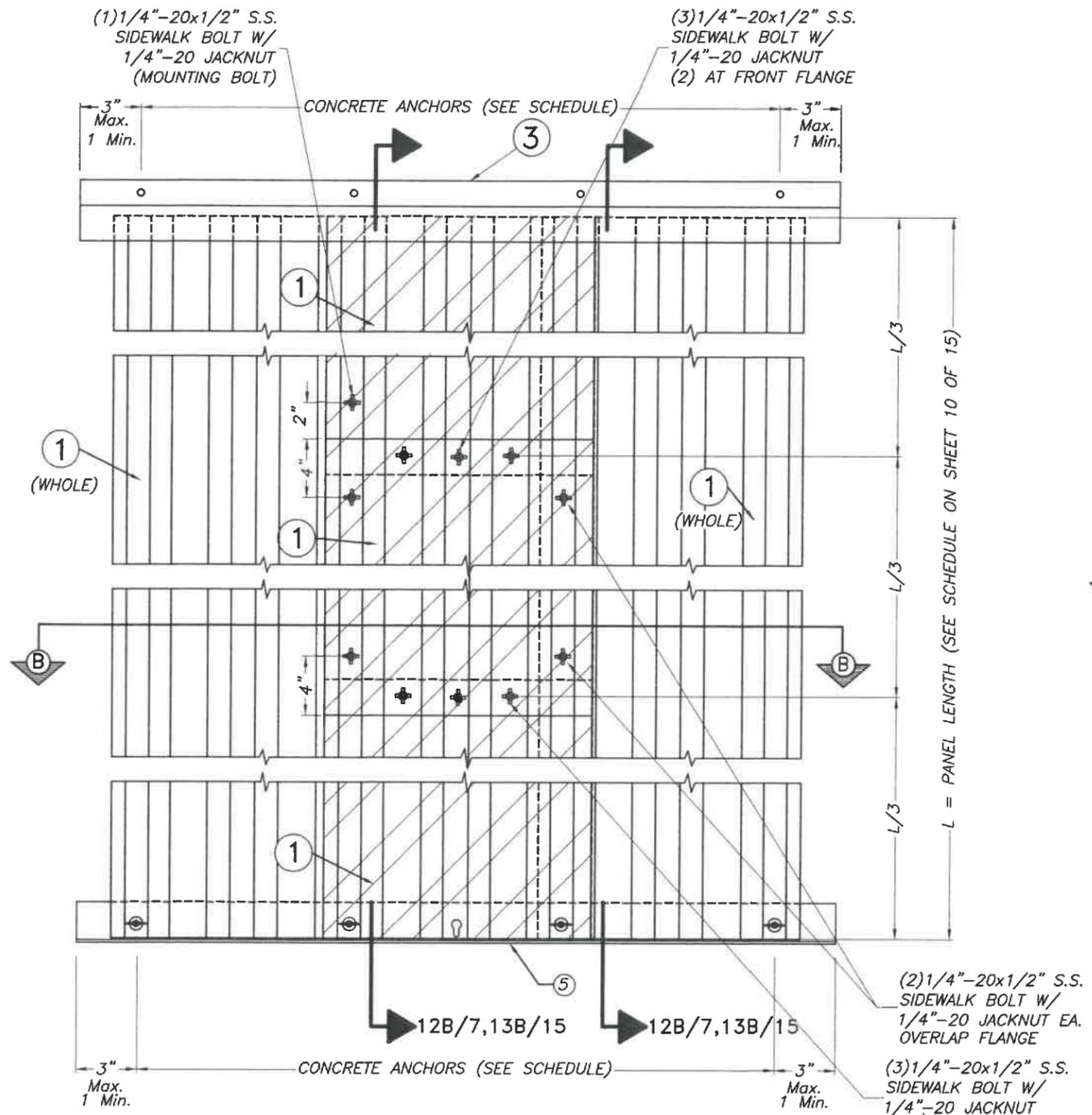
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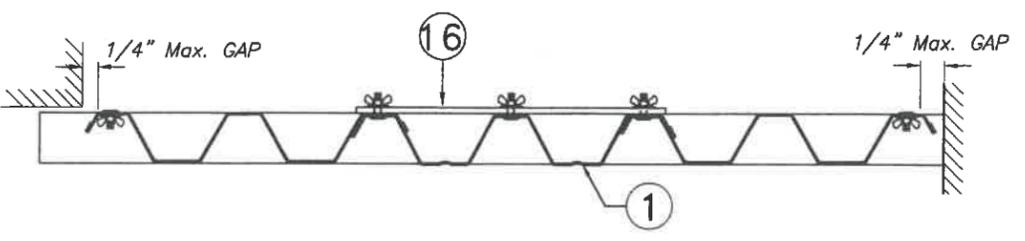
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DRAWING No

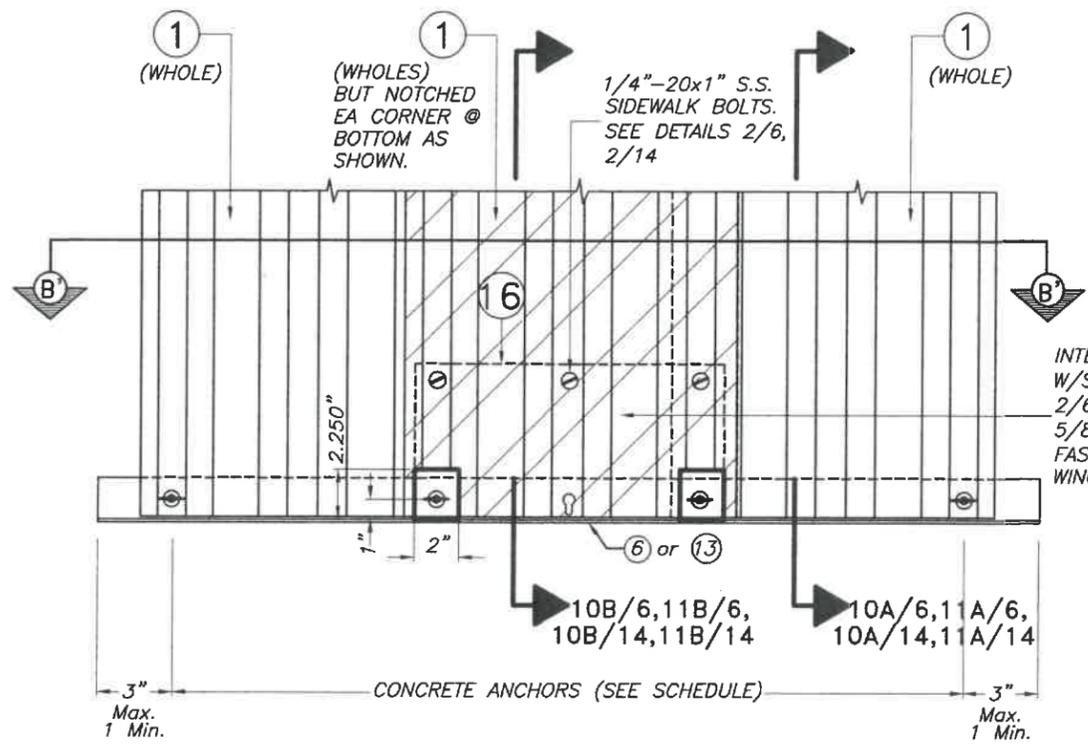
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**INTERIORLY REMOVABLE STORM PANEL
ELEVATION X**
SCALE : 1/8" = 1"



SECTION B'-B'
SCALE : 1/8" = 1"



**INTERIORLY REMOVABLE STORM PANEL
PARTIAL ELEVATION Y**
SCALE : 1/8" = 1"

INTERIORLY REMOVABLE PANEL (1)
W/SIDEWALK BOLTS (SEE DETAILS
2/6, 2/14) CONNECTED TO (16) THRU
5/8" Ø HOLES AT (16) @ 6" O.C &
FASTENED AT REAR W/7/8" Ø x 3/32"
WING NUT @ EVERY SIDEWALK BOLT.



SECTION B-B
SCALE : 1/8" = 1"

1 SPLICED PANELS
@ 1/3 OF L

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STATE OF
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PROFESSIONAL ENGINEER
8/2020
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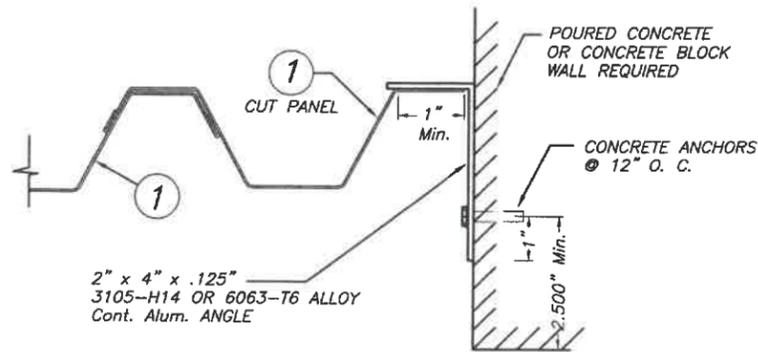
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(2.25" DEEP)**
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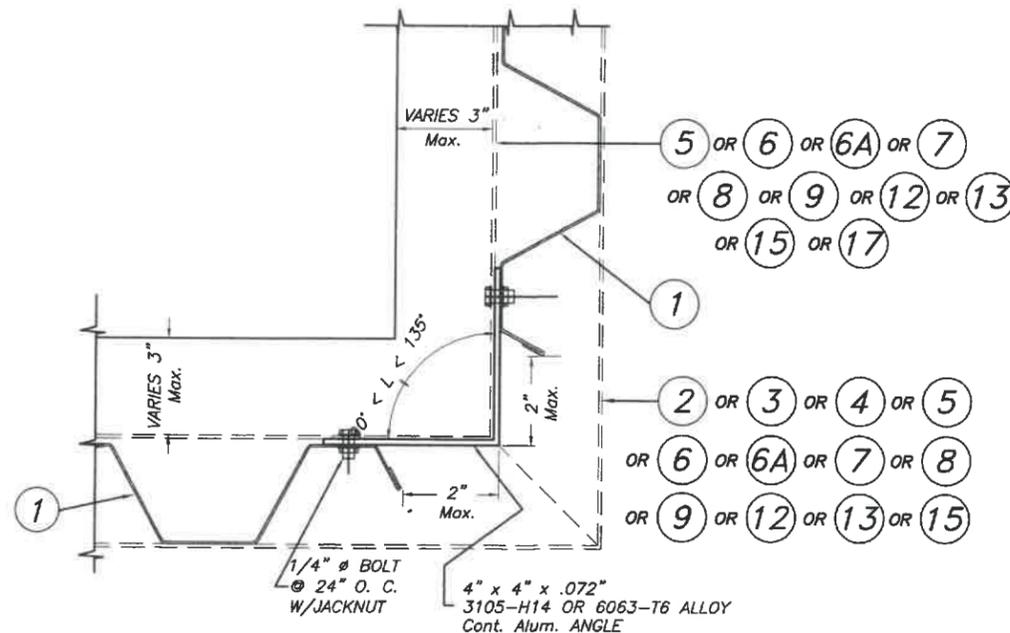
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SHEET 8 OF 15

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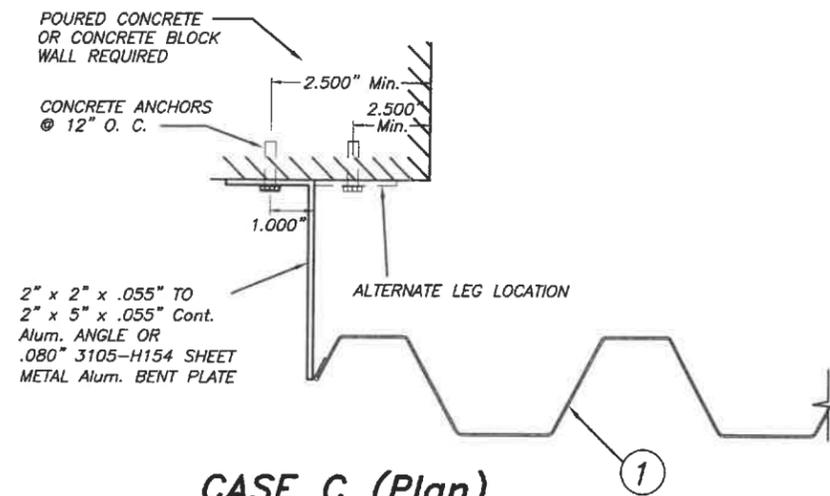
CASE A (Plan)

SCALE: 1/4" = 1"



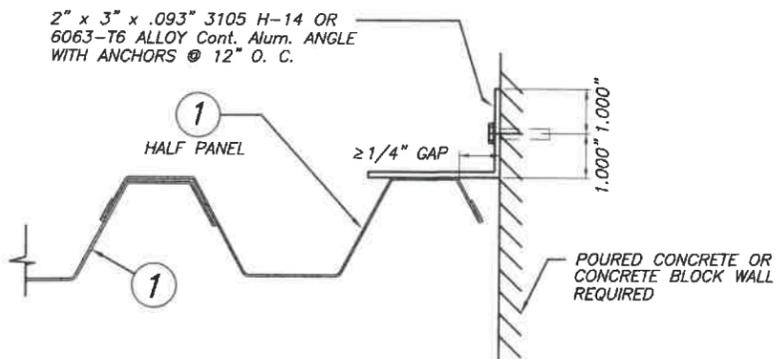
CASE B (Plan)

SCALE: 1/4" = 1"



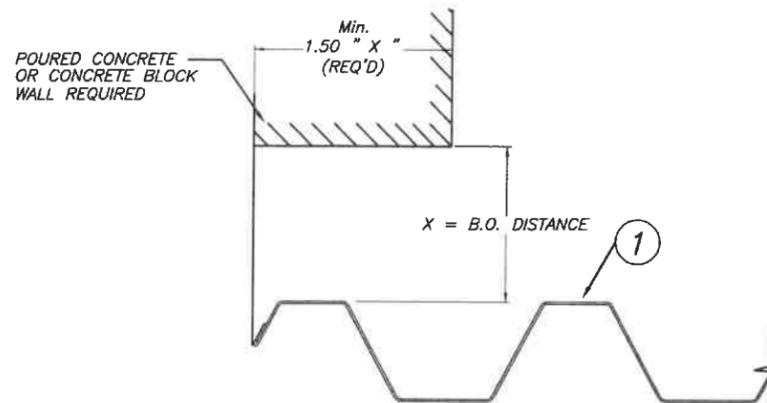
CASE C (Plan)

SCALE: 1/4" = 1"



CASE D (Plan)

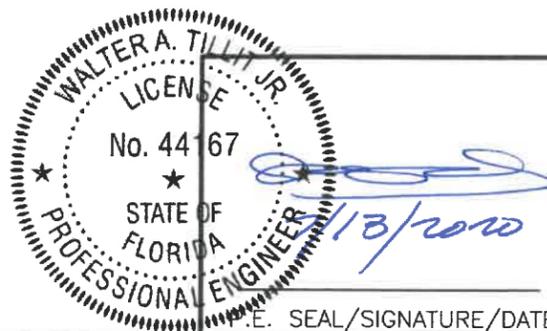
SCALE: 1/4" = 1"



CASE E (Plan) *

SCALE: 1/4" = 1"

END CLOSURES DETAILS



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MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) WITH CORRESPONDING MAXIMUM PANEL LENGTH "L" (Ft.) AND CORRESPONDING ANCHOR SPACING "S" (in.) SCHEDULE FOR INSTALLATIONS IN CONCRETE, CONCRETE BLOCK AND WOOD FRAME STRUCTURES *

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	Max. PANEL LENGTH L (Ft.) 0.040" ALUMINUM PANEL ①				Max. ANCHOR SPACING "S" (in.) PANELS ①**
	SECTIONS: 1, 3, 4, 6, 7, 8, 8A, 9, 11	SECTIONS: 2, 5, 10	SECTION: 12	SECTION: 13	
+25.0, -25.0	12'-0"	12'-0"	11'-9"	8'-6"	12"††
+25.0, -30.0	12'-0"	11'-5"	10'-9"	8'-6"	12"††
+30.0, -35.0	11'-1"	10'-6"	9'-11"	8'-6"	12"††
+35.0, -40.0	10'-5"	9'-10"	9'-4"	8'-6"	12"††
+40.0, -45.0	9'-10"	9'-4"	8'-9"	8'-6"	12"††
+45.0, -50.0	9'-4"	8'-10"	8'-4"	8'-6"	12"††
+50.0, -55.0	8'-10"	8'-5"	7'-11"	-	12"††
+55.0, -60.0	8'-6"	8'-1"	7'-7"	-	12"††
+60.0, -65.0	8'-0"	7'-9"	7'-4"	-	12"††
+65.0, -70.0	7'-5"	7'-5"	7'-0"	-	12"††
+70.0, -75.0	6'-11"	6'-11"	6'-9"	-	12"††
+75.0, -80.0	6'-6"	6'-6"	6'-6"	-	12"
+80.0, -85.0	6'-1"	6'-1"	6'-1"	-	12"
+85.0, -90.0	5'-9"	5'-9"	5'-9"	-	12"
+90.0, -95.0	5'-6"	5'-6"	5'-6"	-	12"
+95.0, -100.0	5'-2"	5'-2"	5'-2"	-	12"
+100.0, -105.0	4'-11"	4'-11"	4'-11"	-	12"
+105.0, -110.0	4'-9"	4'-9"	4'-9"	-	12"
+110.0, -115.0	4'-6"	4'-6"	4'-6"	-	12"
+115.0, -120.0	4'-4"	4'-4"	4'-4"	-	12"
+120.0, -125.0	4'-2"	4'-2"	4'-2"	-	12"
+125.0, -130.0	4'-0"	4'-0"	4'-0"	-	12"

† SECTION 8A IS ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING UP TO +70, -75 PSF.
 †† Max. ANCHOR SPACING FOR SECTION 8A SHALL BE 6" O.C.

NOTE: MINIMUM PANEL LENGTH IS 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.

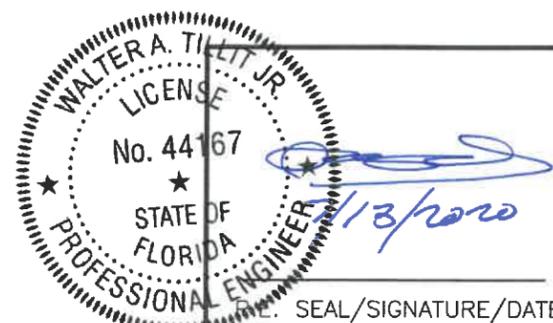
ACTUAL E. D.	FACTOR			
	PANELMATES	TAPCON	SOLID-SET	CALK-IN
3"	.86	-	.78	.75
2 1/2"	.71	-	-	.50
2"	.50	-	-	-
1 1/2"	-	.35	-	-

ANCHORS LEGEND

ANCHORS TYPE	ANCHOR MIN. SPACING
TAPCON/ PANELMATES	3.0"
CALK-IN	2.5"
SOLID-SET	3.5"

* SEE NOTES ON SHEET 11 THRU 15 OF 15 FOR PANEL LENGTH LIMITATIONS FOR FLOOR/CEILING INSTALLATIONS INTO WOOD FRAME BUILDINGS.

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0.040" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)

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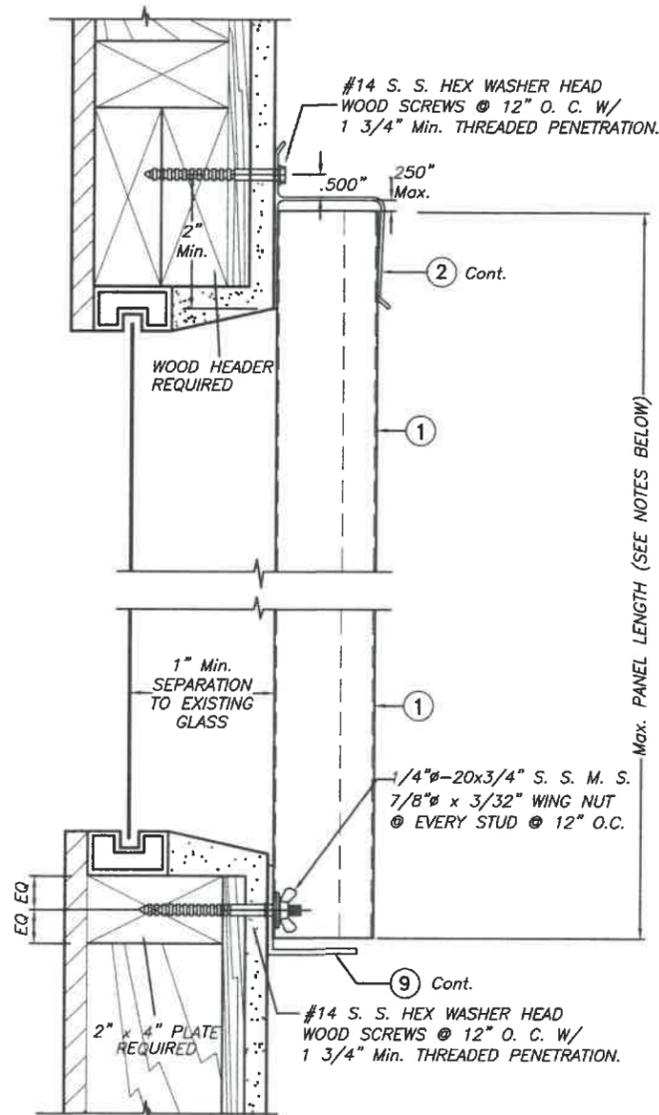
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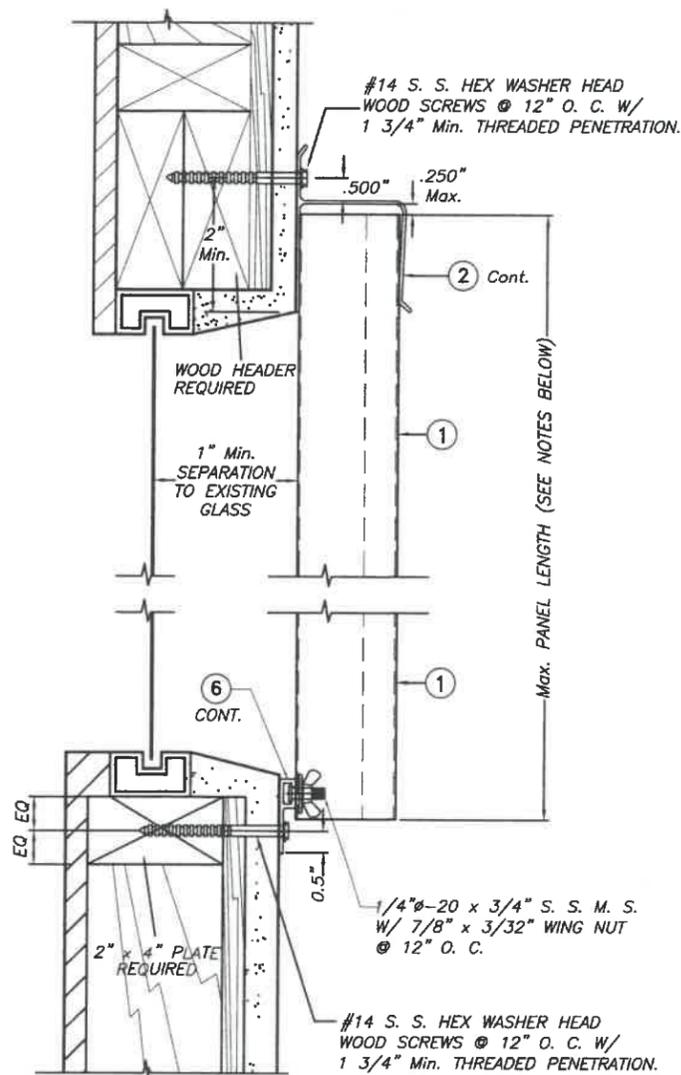
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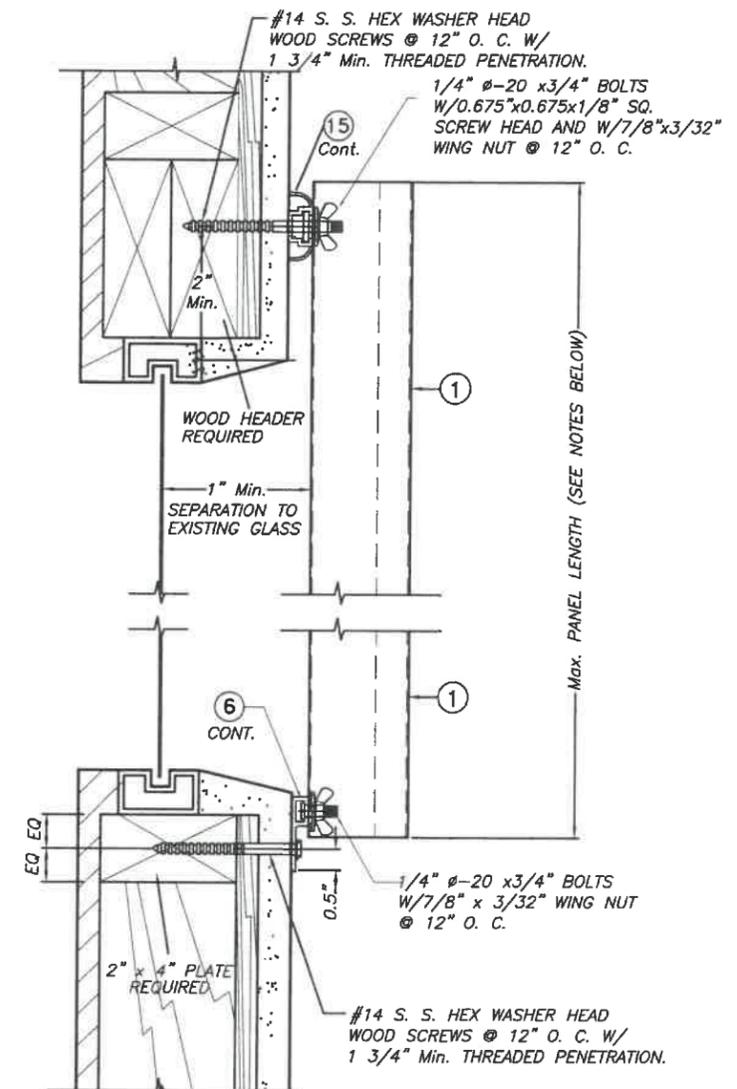
SHEET 10 OF 15



**WALL MOUNTING INSTALLATION
ALTERNATIVE 1** SCALE : 1/4" = 1"



**WALL MOUNTING INSTALLATION
ALTERNATIVE 2** SCALE : 1/4" = 1"



**WALL MOUNTING INSTALLATION
ALTERNATIVE 3** SCALE : 1/4" = 1"

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

NOTES:

- INSTALLATIONS ARE ONLY VALID FOR MAX. A.S.D. DESIGN PRESSURE RATING AND Max. PANEL LENGTH AS PER SCHEDULES SHOWN ON SHEET 10 OF 15 EXCEPT THAT PANEL'S LENGTHS FOR FLOOR/CEILING INSTALLATIONS SHALL BE LIMITED TO 109"
- FOR WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

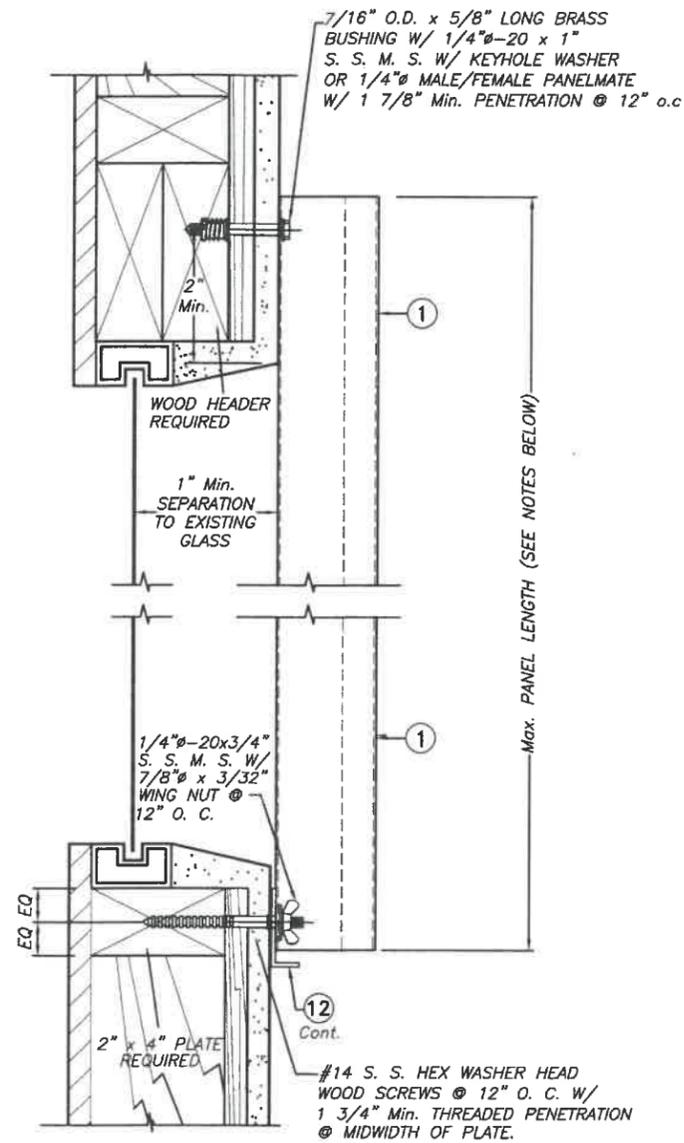
INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

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

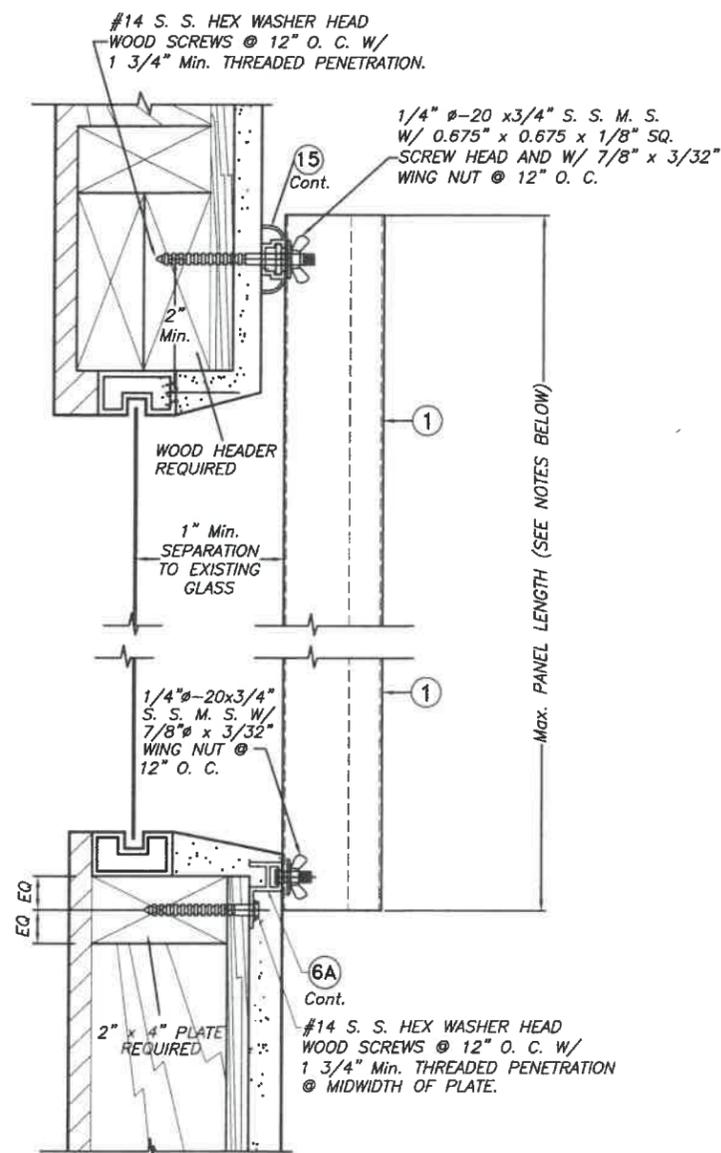
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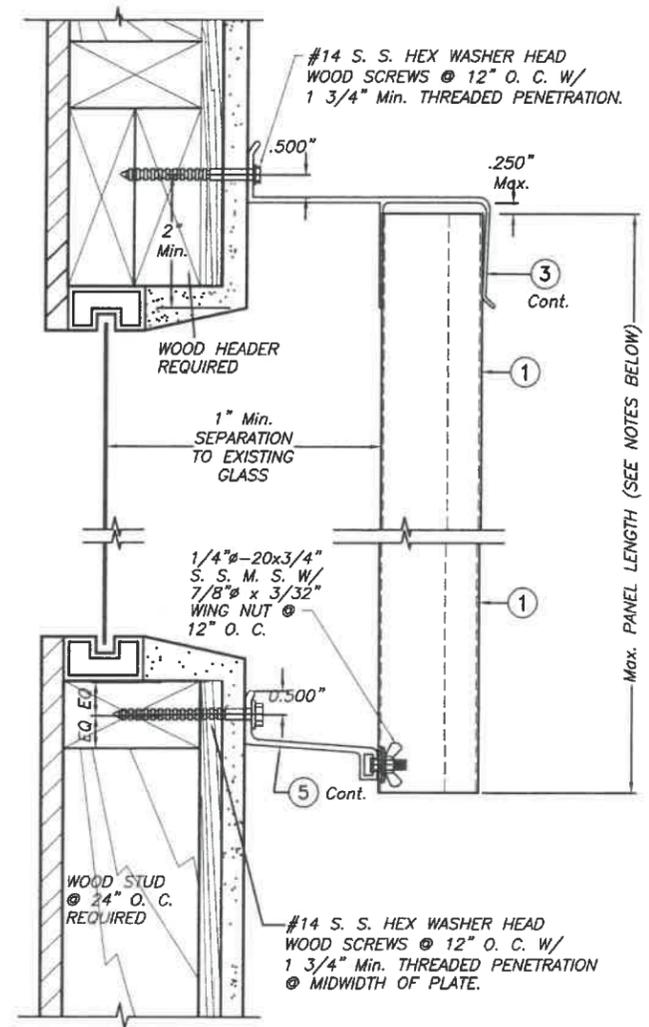
0.040" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)			M.P. DRAWN BY:		
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2	-	-	4	-	-



**WALL MOUNTING INSTALLATION
ALTERNATIVE 4** SCALE : 1/4" = 1"



**WALL MOUNTING INSTALLATION
ALTERNATIVE 5** SCALE : 1/4" = 1"



**BUILD OUT INSTALLATION
ALTERNATIVE 6** SCALE : 1/4" = 1"

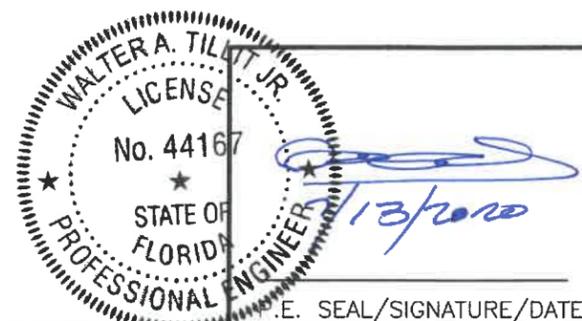
INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

NOTE FOR COMBINATION OF SECTIONS:

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

NOTES:

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- FOR WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



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, FLORIDA 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

0.040" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)

EASTERN METAL SUPPLY, INC

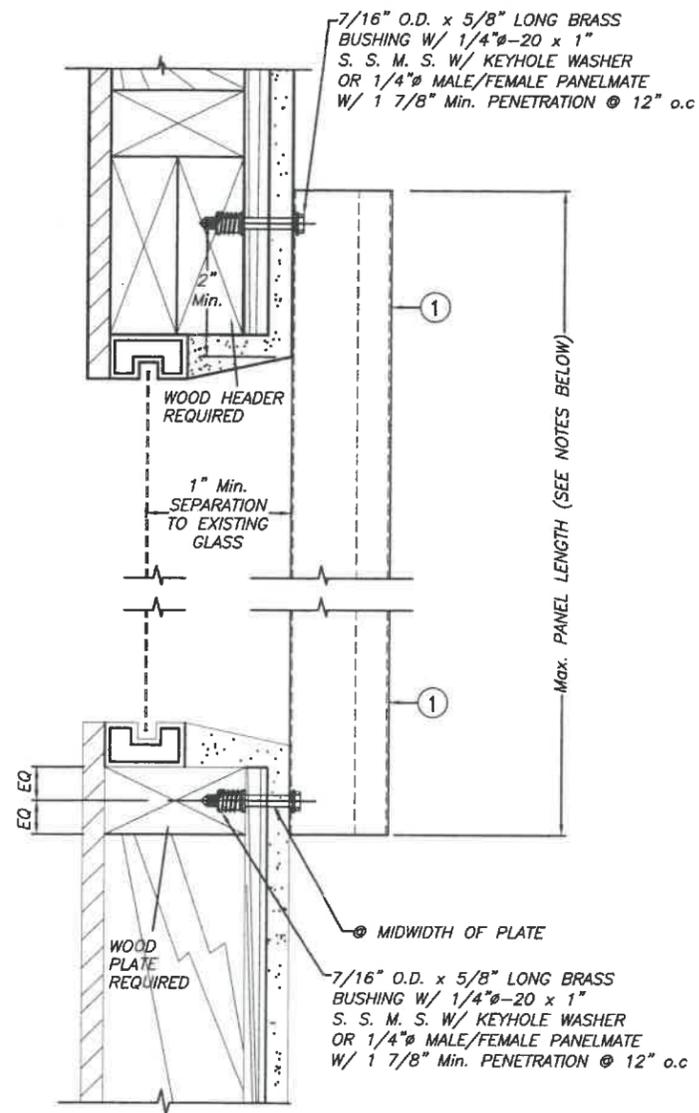
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WEST PALM BEACH, FL 33407
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Fax: (561)209-8380

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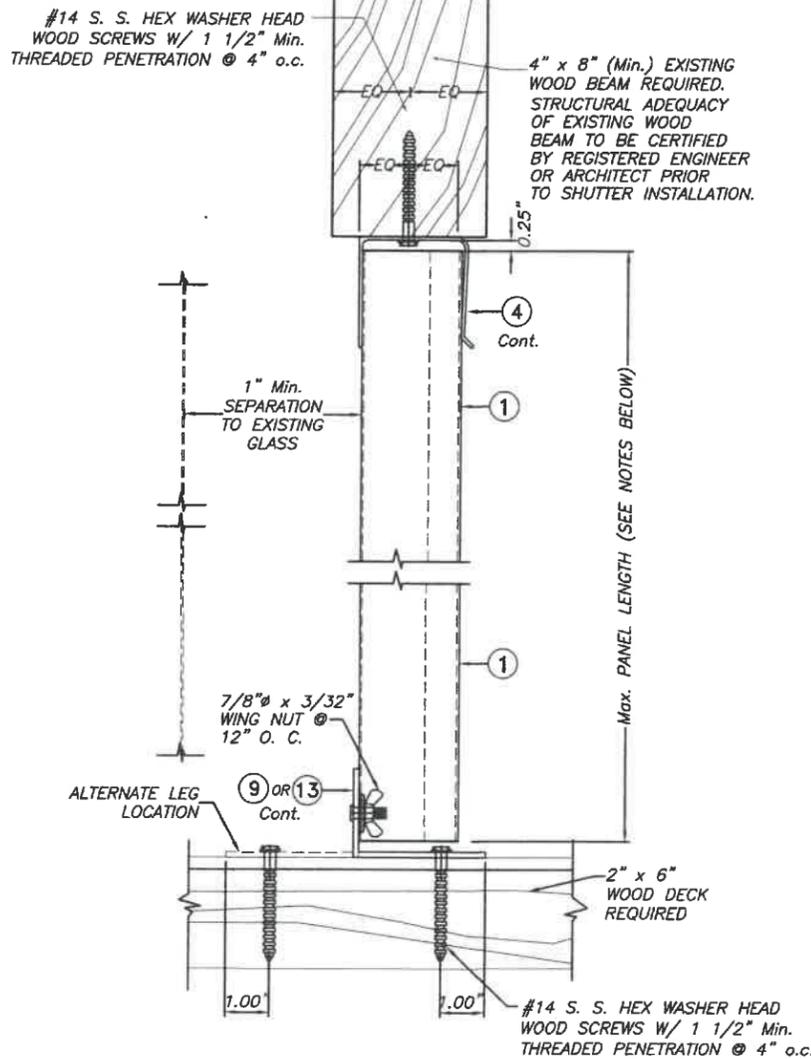
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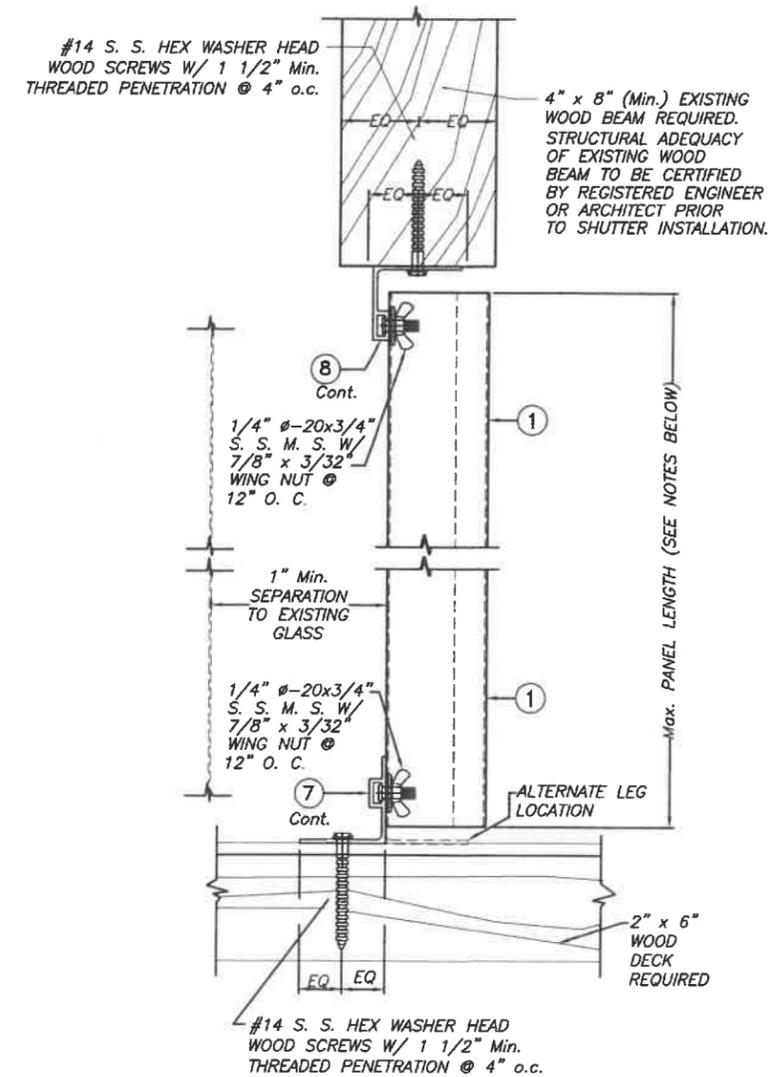
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**WALL MOUNTING INSTALLATION (D. M.)
ALTERNATIVE 7** SCALE : 1/4" = 1"



**CEILING & FLOOR MOUNTING INSTALLATION
ALTERNATIVE 8** SCALE : 1/4" = 1"



**CEILING & FLOOR MOUNTING INSTALLATION
ALTERNATIVE 9** SCALE : 1/4" = 1"

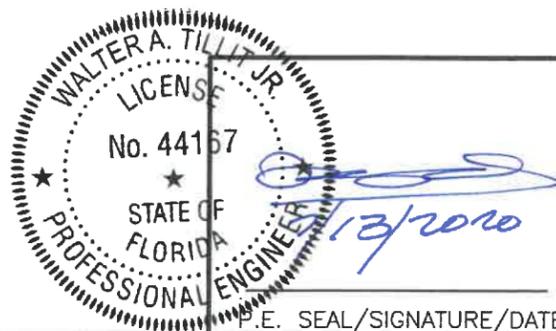
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P.E. SEAL/SIGNATURE/DATE

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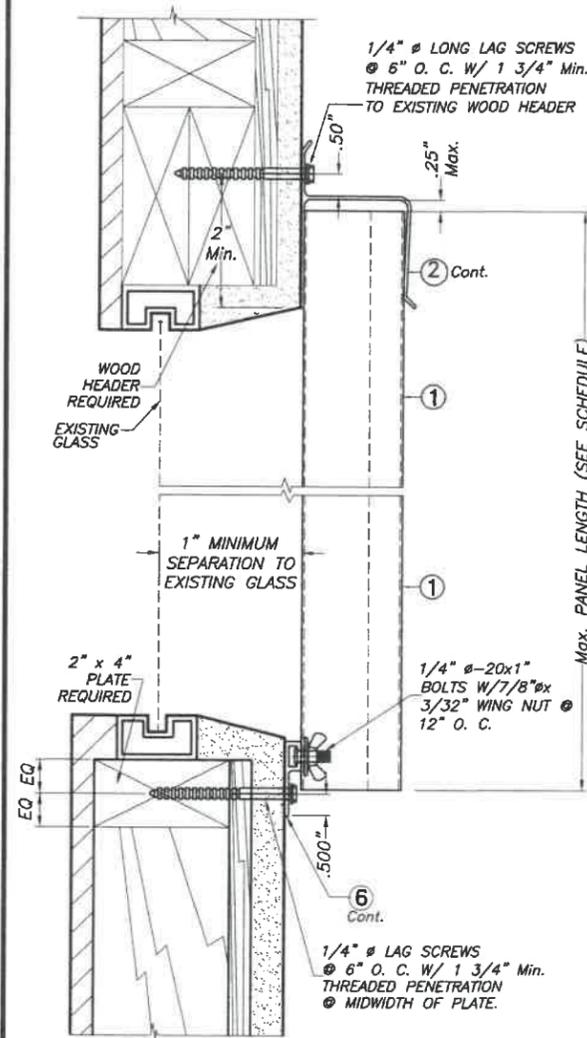
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SHEET 13 OF 15

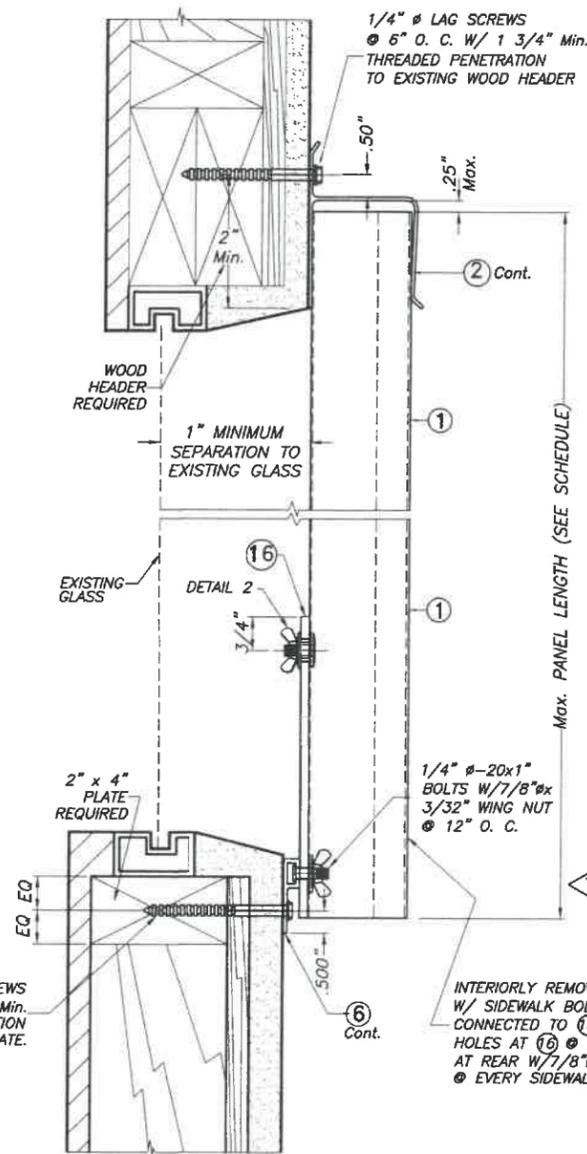


ALTERNATIVE 10A

SCALE : 3/8" = 1"

**WALL MOUNTING INSTALLATIONS
SECTIONS 10**

1/4" Ø LAG SCREWS
⊕ 6" O. C. W/ 1 1/2" Min.
THREADED PENETRATION
⊕ MIDWIDTH OF PLATE.

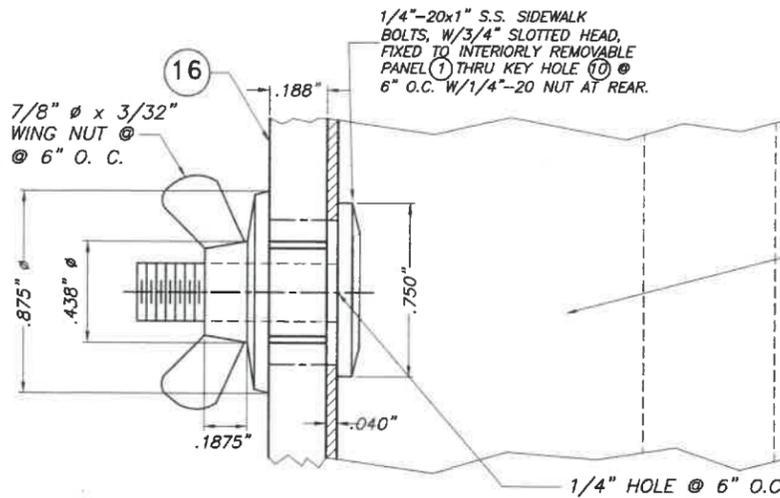


ALTERNATIVE 10B

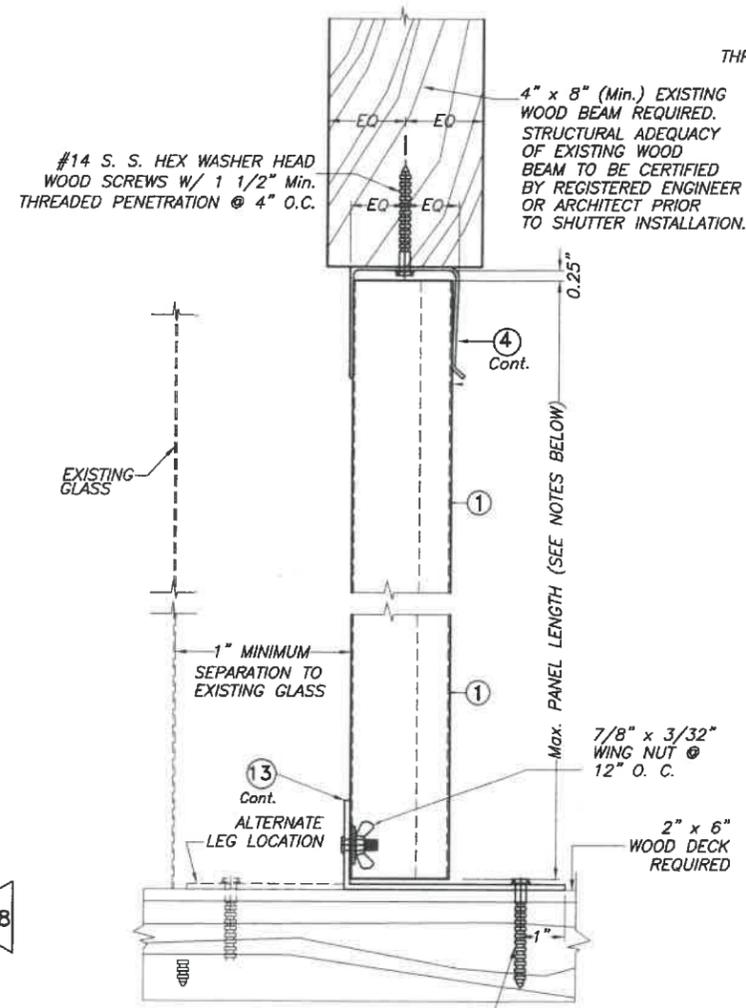
SCALE : 3/8" = 1"

**INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS
VALID FOR PANELS ① USED JOINTLY
WITH INTERIORLY REMOVABLE PANELS ①**

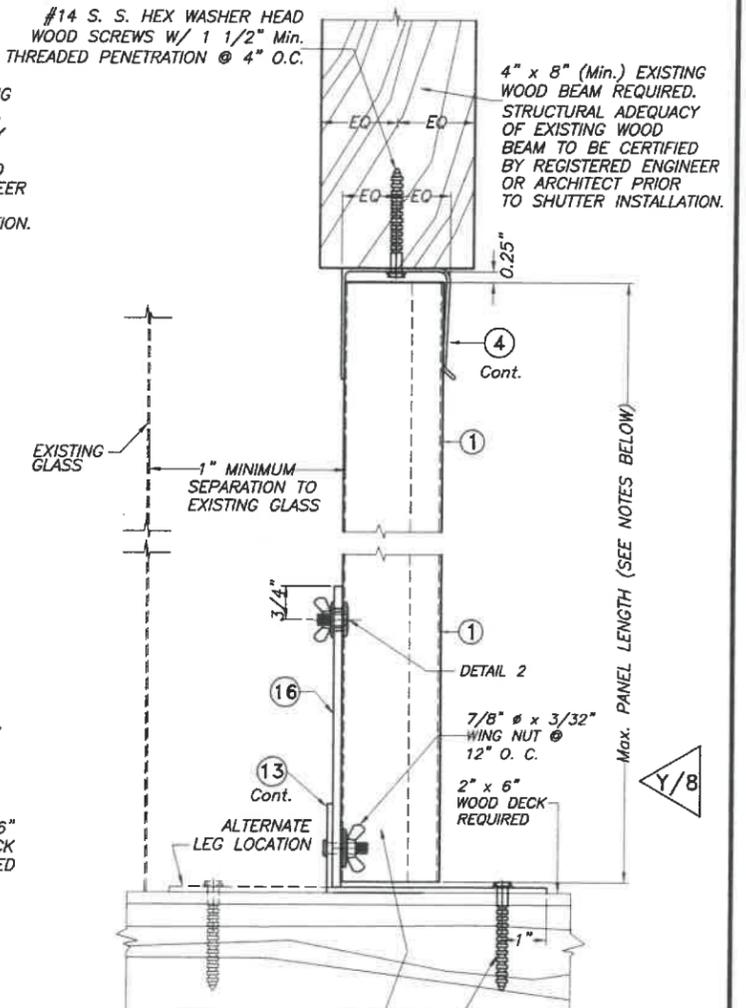
NOTE FOR COMBINATION OF SECTIONS:
WALL MOUNTING SECTIONS CAN BE COMBINED
IN ANY WAY TO SUIT ANY INSTALLATION.



**DETAIL 2 - INSTALLATION OF 1/4"x1"
SIDEWALK BOLTS ⊕ REMOVABLE PANEL**



ALTERNATIVE 11A



ALTERNATIVE 11B

CEILING & FLOOR MOUNTING INSTALLATIONS

SECTIONS 11

SCALE : 1/4" = 1"

- NOTES:**
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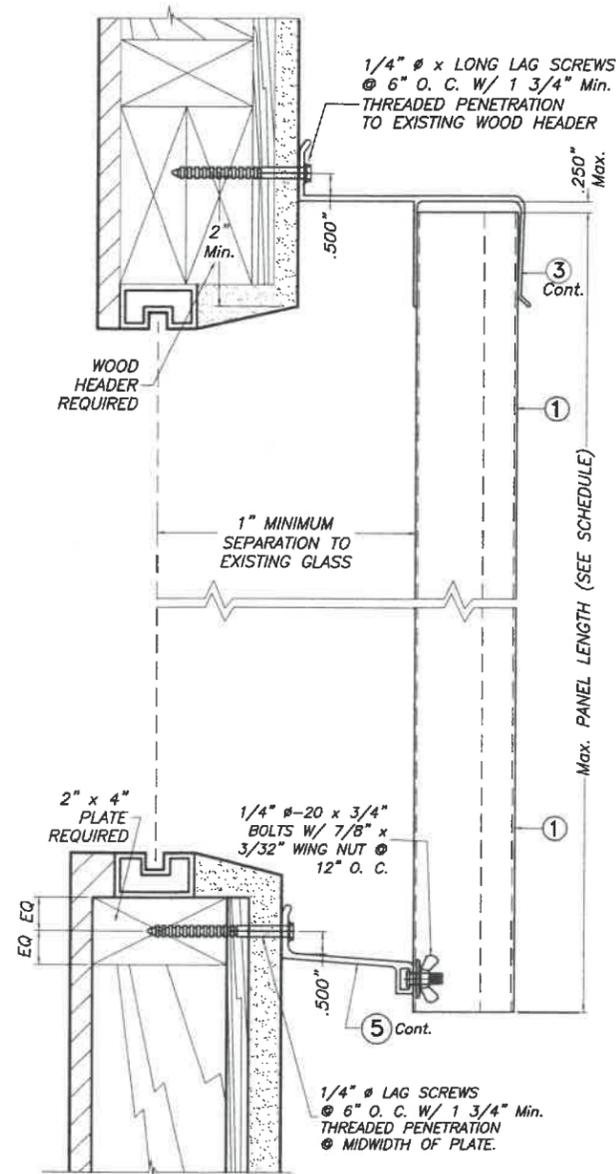
WALTER A. TILLIT JR.
LICENSE
No. 44167
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
SEAL/SIGNATURE/DATE

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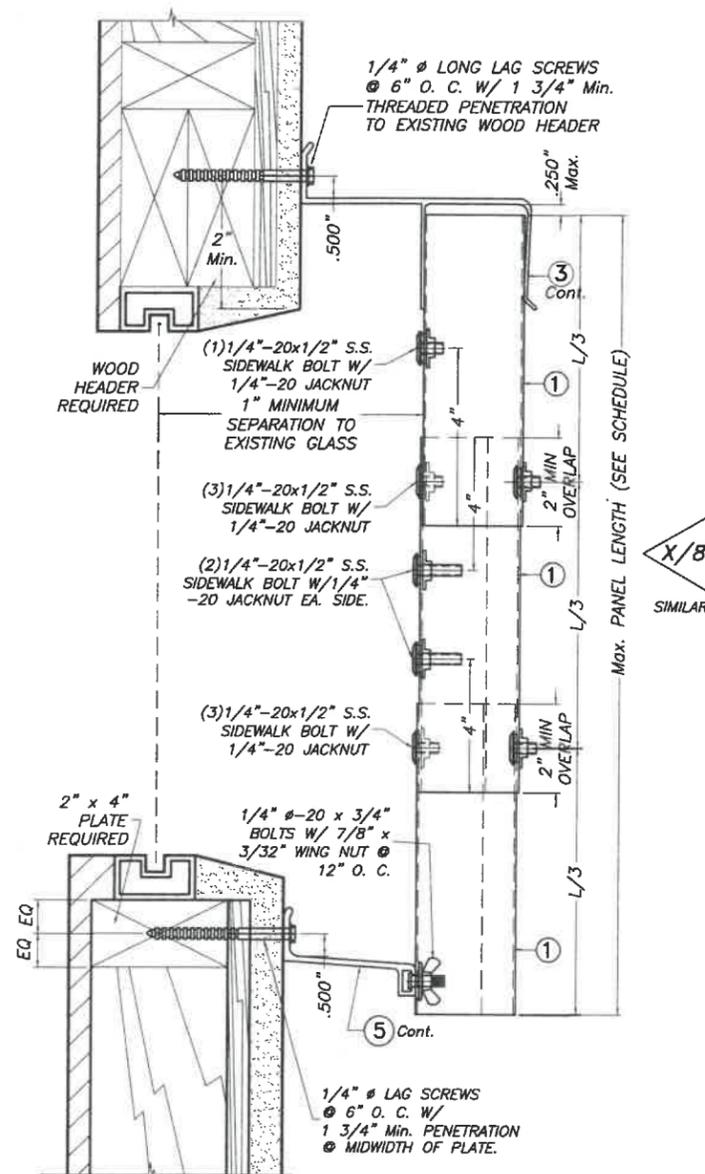
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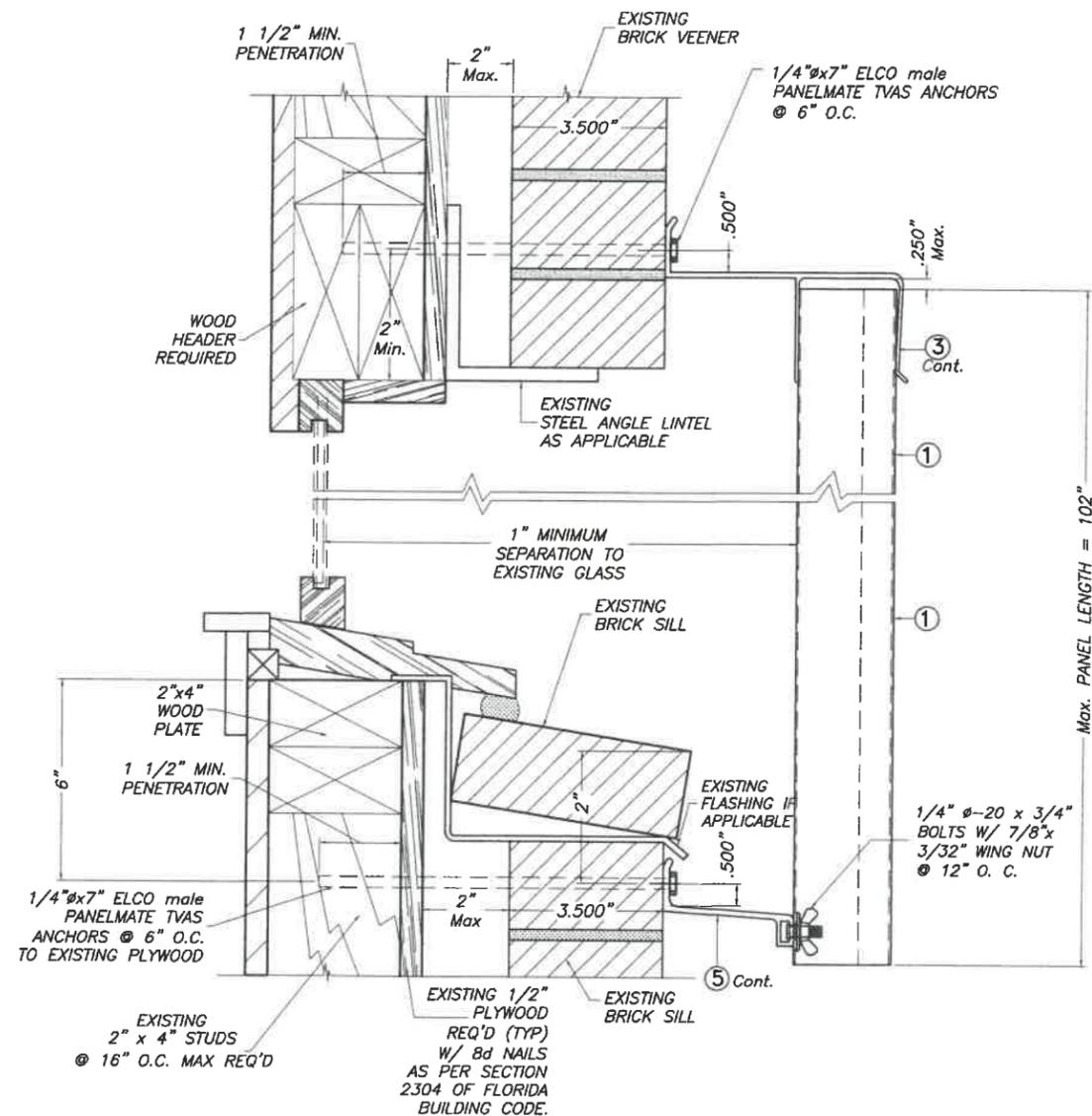
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SHEET 14 OF 15



ALTERNATIVE 13A



ALTERNATIVE 13B



**ALTERNATIVE 14
BUILD-OUT INSTALLATION**

WALL MOUNTING INSTALLATIONS

SCALE : 1/8" = 1"

**INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS
VALID FOR PANELS ① USED JOINTLY
WITH INTERIORLY REMOVABLE PANELS ①**

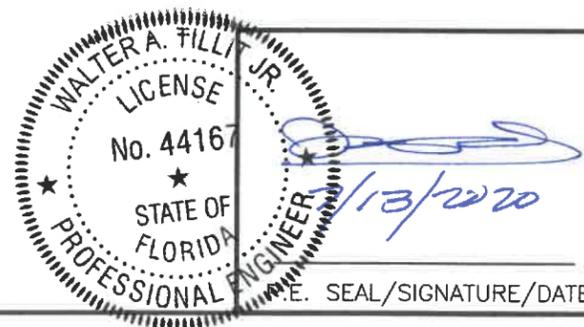
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