

GENERAL NOTES:

1. STORM PANEL SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (8th EDITION) OF THE FLORIDA BUILDING CODE.

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 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 Kd=0.85. USING ASCE 7-22 SHALL NOT EXCEED THE MAXIMUM (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 9 THRU 15.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE W/ MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 9 THRU 15.

N ORDER TO VERIFY THAT COMPONENTS AND ANCHORS ON THIS P.E.D. AS TESTED WERE NOT OVER STRESSED, A 33% INCREASE 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 NDS 2018.

STORM PANEL'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER AMERICAN TEST LAB REPORTS #1022.01-96 # 0221.01-01 AND #0616.02-05 PER PROTOCOLSTAS-201, TAS-202AND TAS-203

2. ALL ALUMINUM SHEET METAL PANELS SHALL HAVE 5052-H32 OR 3004-H34 ALLOY.

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

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

5. BOLTS TO BE ASTM A-307 GALVANIZED STEEL OR AISI 304 SERIES STAINLESS STEEL, WITH 35 ksi MINIMUM YIELD STRENGTH.

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

- (A) TO EXISTING POURED CONCRETE:
- 1/4" Ø TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX. (REGULAR OR 410 S.S.)
 - 1/4" Ø CRETE-FLEX SS4 ANCHORS AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
 - 1/4" Ø CF TAP-GRIP ANCHORS (BERTHA STUD-CON), AS MANUFACTURED BY TRU-FAST CORPORATION.
 - 1/4" Ø ZAMAC NAILIN ANCHORS AS MANUFACTURED BY DEWALT, INC.
 - 1/4" Ø x 7/8" CALK-IN ANCHORS OR ELCO male & female "PANELMATE" AS MANUFACTURED BY DEWALT, INC AND ELCO CONSTRUCTION PRODUCTS, RESPECTIVELY.
 - 1/4" Ø x 3/4" ALL POINTS SOLID-SET ANCHORS AS DISTRIBUTED BY ALL POINTS SCREW, BOLT & SPECIALTY COMPANY.

NOTES:

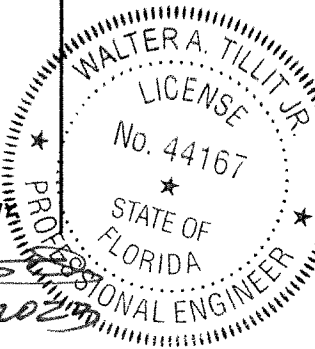
- A.1) MINIMUM EMBEDMENT INTO POURED CONCRETE OF TAPCON ANCHORS OR CRETE-FLEX SS4 IS 1 3/4"; FOR ZAMAC NAILIN ANCHORS IS 1 3/8"; FOR ELCO PANELMATE ANCHORS IS 1 3/4", AND FOR CF TAP-GRIP ANCHORS IS 1 1/4".
- A.2) 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4"Ø-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- A.3) MINIMUM EMBEDMENT OF 1/4"Ø x 3/4" ALL POINTS SOLID-SET ANCHORS SHALL BE 7/8" INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- A.4) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS, ANCHORAGE SHALL BE AS INDICATED ON NOTES A.1) & A.2) ABOVE.

- (B) TO EXISTING CONCRETE BLOCK WALL:
- 1/4" Ø TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX. (REGULAR OR 410 S.S.)
 - 1/4" Ø CRETE-FLEX SS4 ANCHORS AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
 - 1/4" Ø CF TAP-GRIP ANCHORS (BERTHA STUD-CON), AS MANUFACTURED BY TRU-FAST CORPORATION.
 - 1/4" Ø ZAMAC NAILIN ANCHORS AS MANUFACTURED BY DEWALT, INC.
 - 1/4" Ø x 7/8" CALK-IN ANCHORS OR ELCO male & female "PANELMATE" AS MANUFACTURED BY DEWALT, INC. AND ELCO CONSTRUCTION PRODUCTS, RESPECTIVELY.
 - 1/4" Ø x 3/4" ALL POINTS SOLID-SET ANCHORS AS DISTRIBUTED BY ALL POINTS SCREW, BOLT & SPECIALTY COMPANY.

NOTES:

- B.1) MINIMUM EMBEDMENT OF TAPCON, ELCO PANELMATE, CF TAP-GRIP AND CRETE-FLEX SS4 ANCHORS INTO CONCRETE BLOCK UNIT SHALL BE 1 1/4"; 1 3/8" FOR ZAMAC NAILIN ANCHORS.
- B.2) 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4"Ø-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- B.3) MINIMUM EMBEDMENT OF 1/4"Ø x 3/4" ALL POINTS SOLID-SET ANCHORS SHALL BE 7/8" INTO THE CONCRETE BLOCK. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 S.S. MACHINE SCREW USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- B.4) IN CASE THAT PRECAST STONE OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES IN B.1) AND B.2) ABOVE.
- (C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.
7. PANELS MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN ON SECTIONS 1 THRU 16 (SHEET 3 & 7 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. STORM PANEL INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
11. (a) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i.e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- (b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P.E.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.
- (d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- (e) THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
12. 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



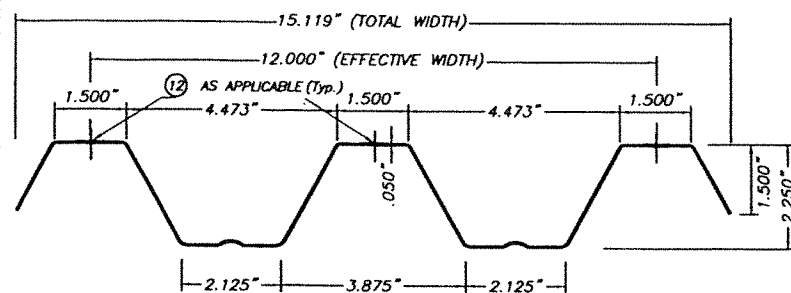
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TILTECO INC.

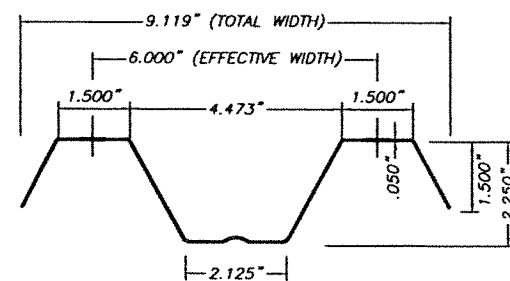
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 • Fax : (305)871-1531
CA-0006719
WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

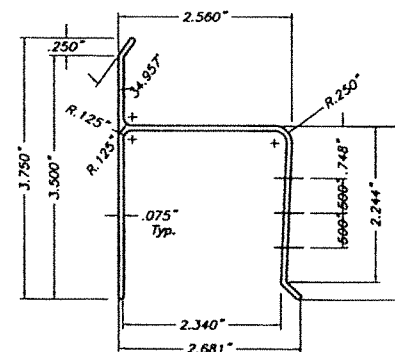
0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)				Y.M. DRAWN BY:	
EASTERN METAL SUPPLY, INC				8/9/2023 DATE:	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)533-6061 FAX: (561)588-4780				23-158 DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-186	8/9/2023	3		
2			4		
					SHEET 1 OF 15



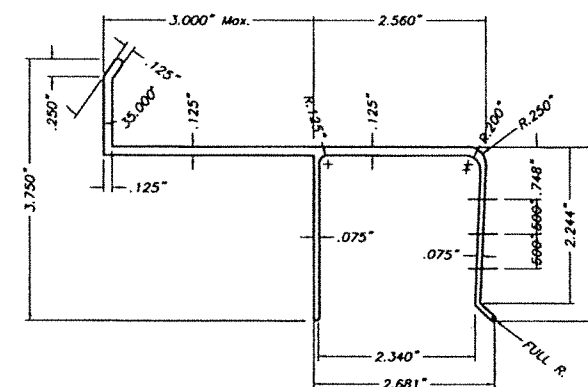
① **ALUMINUM PANEL**
SCALE: 1/4" = 1"



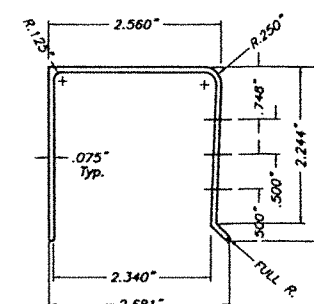
①A **ALUMINUM HALF PANEL**
SCALE: 1/4" = 1"



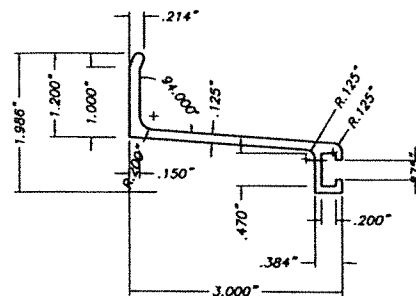
② **"h" HEADER**
SCALE: 3/8" = 1"



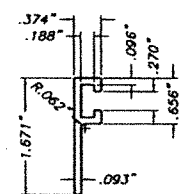
③ **3" Max. "U" BUILD OUT**
SCALE: 3/8" = 1"



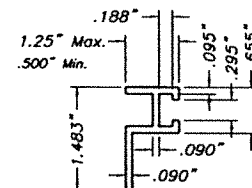
④ **"U" HEADER**
SCALE: 3/8" = 1"



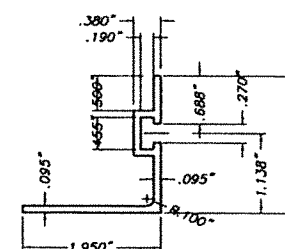
⑤ **3" ANGLE BUILD OUT BRACKET**
SCALE: 3/8" = 1"



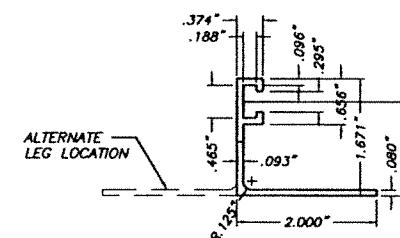
⑥ **"F" TRACK**
SCALE: 3/8" = 1"



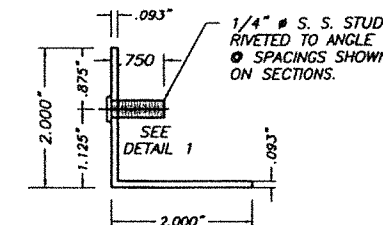
⑥A **1 1/4" MAX. B. O. "F" TRACK**
SCALE: 3/8" = 1"



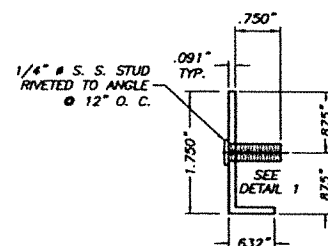
⑦ **REVERSED "F" ANGLE TRACK**
SCALE: 3/8" = 1"



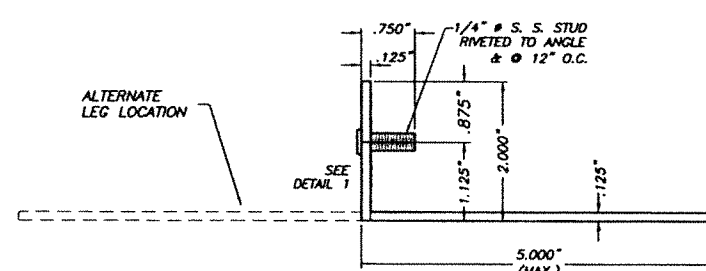
⑧ **"F" TRACK ANGLE**
SCALE: 3/8" = 1"



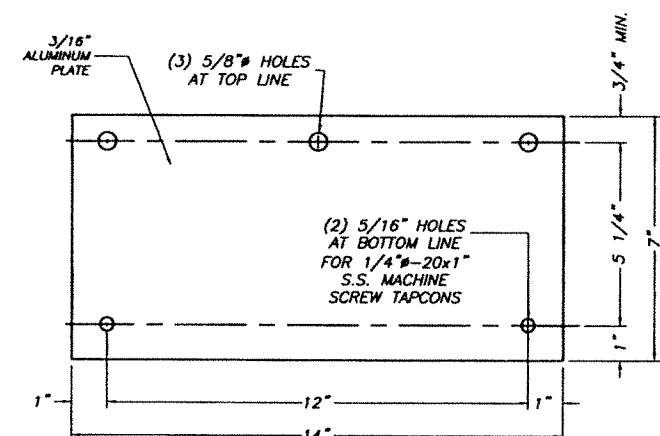
⑨ **STUDED ANGLE**
6063-T5 Alum. ALLOY
SCALE: 3/8" = 1"



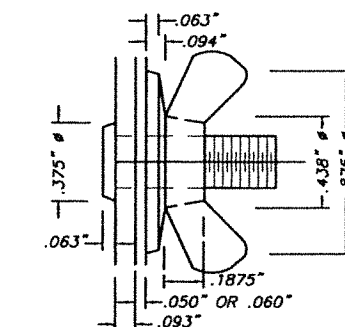
⑨A **MINI WALL 1.75"x0.632" ANGLE WITH STUD**
SCALE: 1/2" = 1"



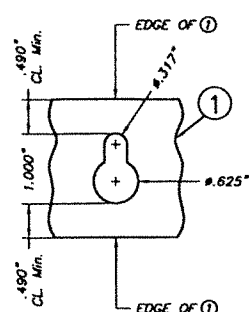
⑩ **2"x5" (MAX.) x 1/8" ANGLE WITH STUD**
SCALE: 3/8" = 1"



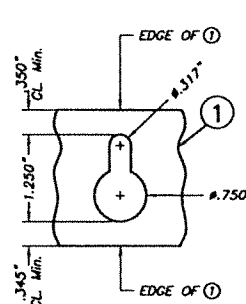
⑪ **3/16"x7"x14" LONG WALL PLATE**
SCALE: 3/16" = 1"



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

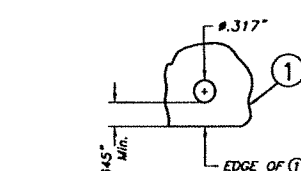


OPTION 1

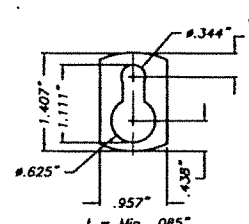


OPTION 2

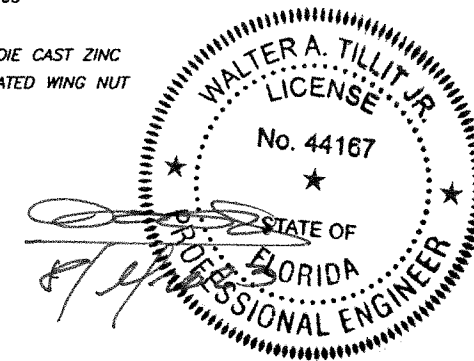
⑫ **KEY HOLE AT PANEL**



⑫A **ROUND HOLE AT PANEL (OPTION TO 12)**



⑬ **KEY HOLE WASHER**
J105-H154 Alum. ALLOY
SCALE: 3/8" = 1"



COMPONENTS

© 2023 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 (High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)

EASTERN METAL SUPPLY, INC
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)533-6061
FAX: (561)588-4780

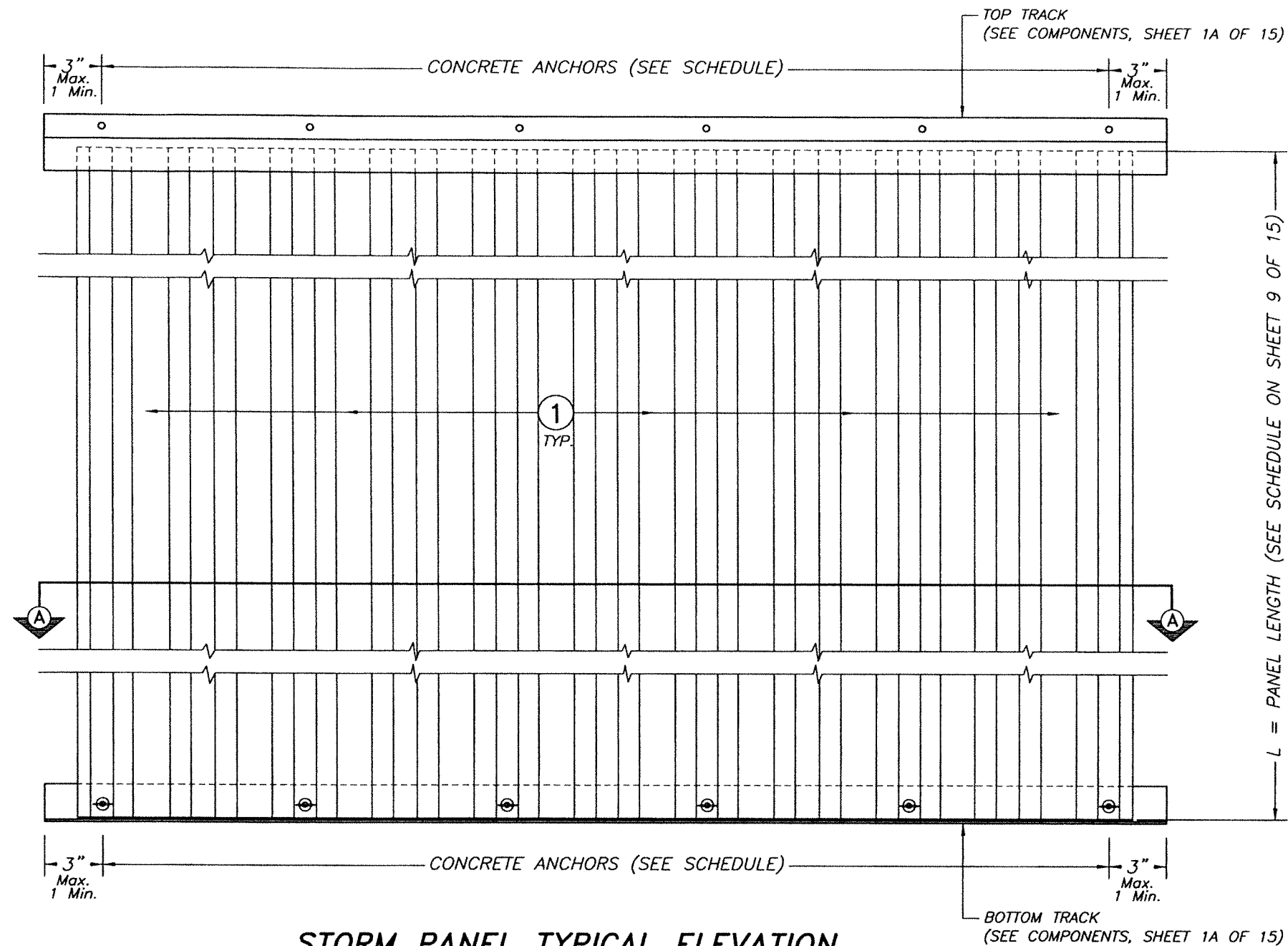
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 20-186	8/9/2023	3		
2			4		

Y.M.
DRAWN BY:

8/9/2023
DATE:

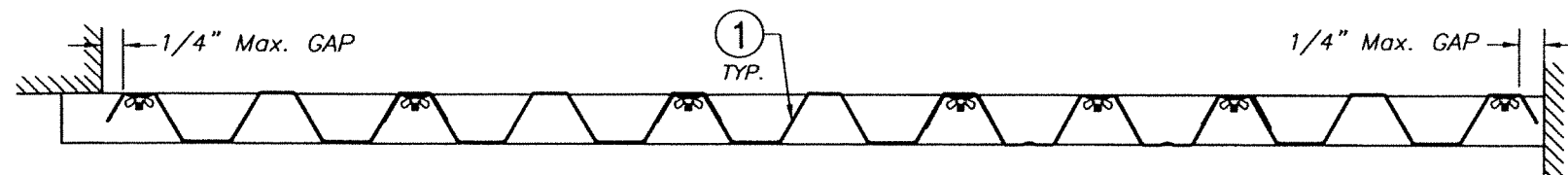
23-158
DRAWING No

SHEET 1A OF 15



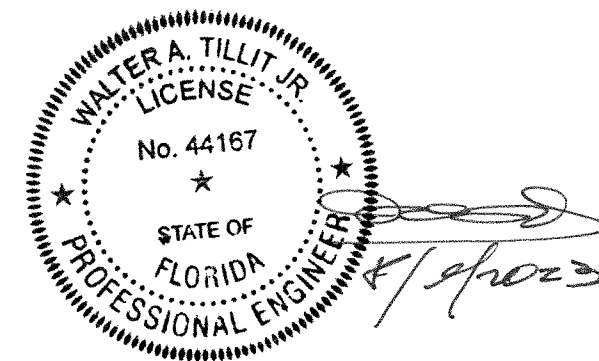
STORM PANEL TYPICAL ELEVATION

SCALE : 1/8" = 1"



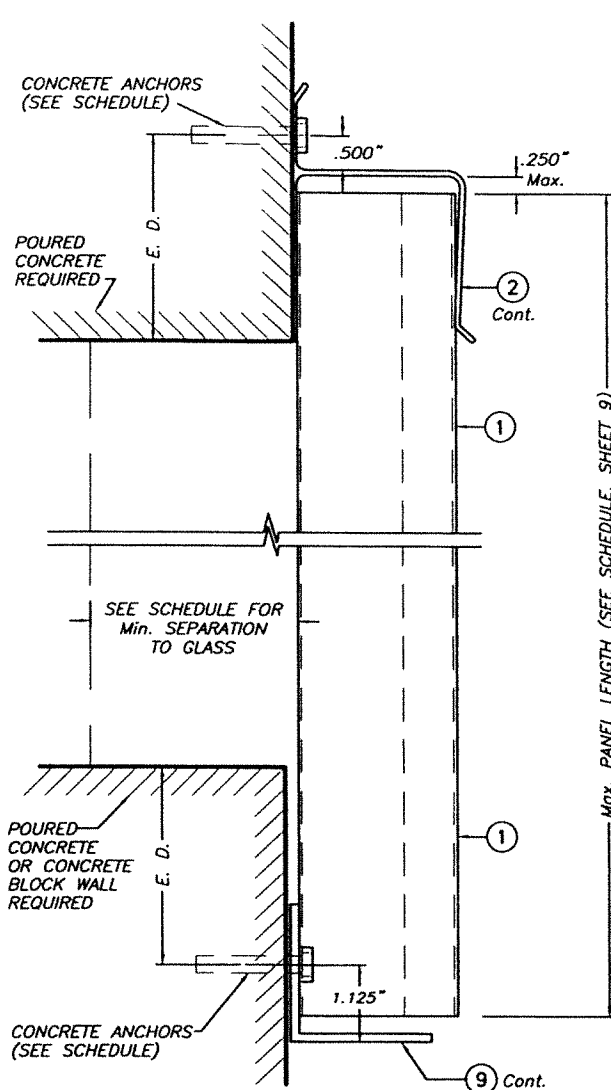
SECTION A-A

SCALE : 1/8" = 1"

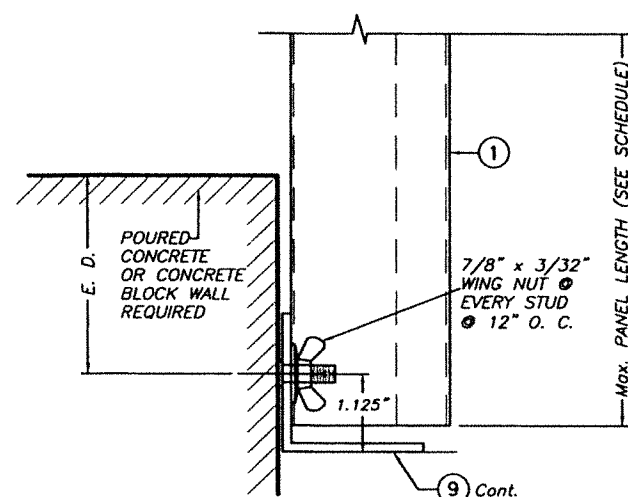


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© 2023 TILTECO, INC.		0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)				Y.M. DRAWN BY:	
 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		EASTERN METAL SUPPLY, INC 4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)533-6061 FAX: (561)588-4780				8/9/2023 DATE:	
						23-158	
						DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 2 OF 15	
1	OLD 20-186	8/9/2023	3				
2			4				



SECTION @ ANCHOR

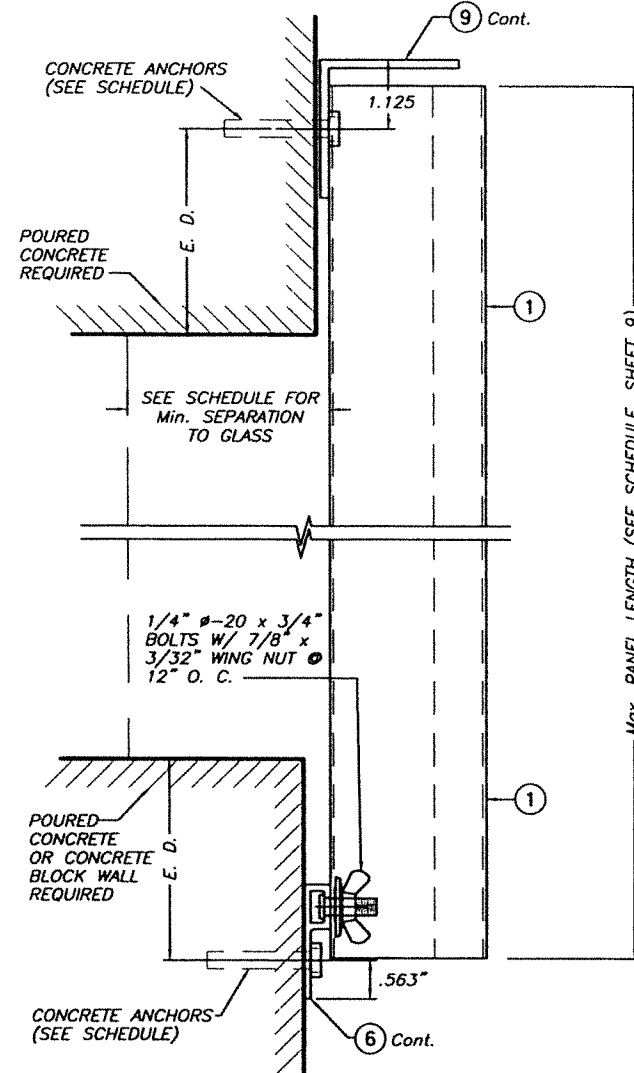


SECTION @ STUD

WALL MOUNTING INSTALLATION SECTION 1

SCALE : 3/8" = 1"

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

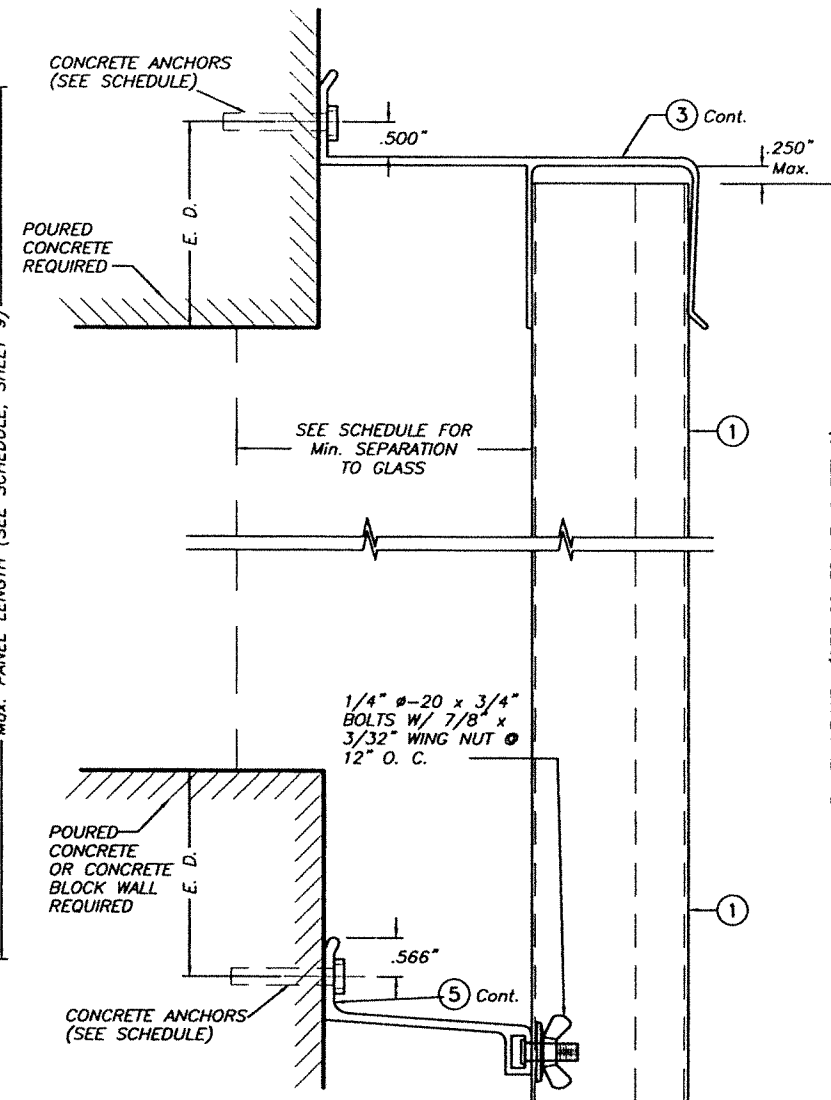


WALL MOUNTING INSTALLATION SECTION 2

SCALE : 3/8" = 1"

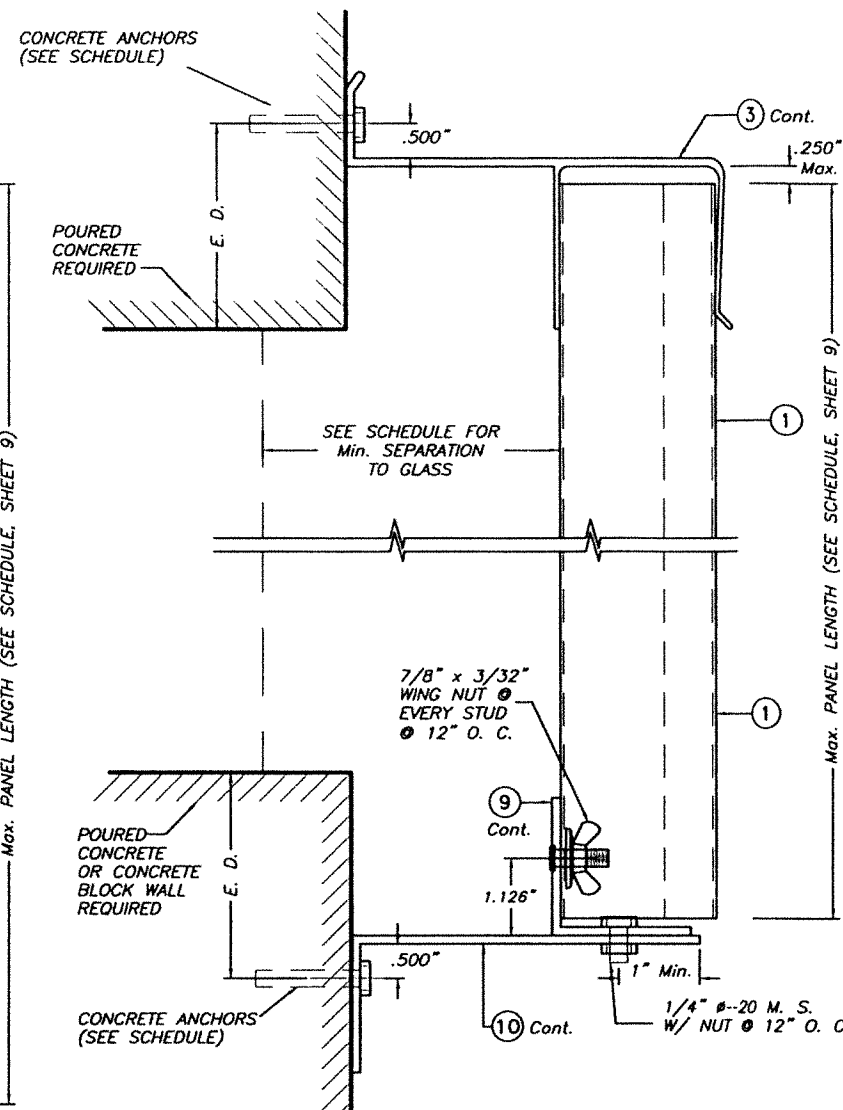
E. D. = EDGE DISTANCE (SEE SCHEDULE ON SHEETS 10 & 11)

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



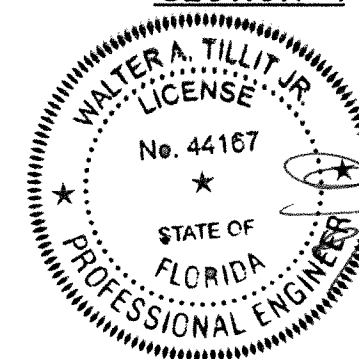
BUILD OUT INSTALLATION SECTION 3

SCALE : 3/8" = 1"



BUILD OUT INSTALLATION SECTION 4

SCALE : 3/8" = 1"



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0.050" BERTHA ALUMINUM STORM PANEL

(2.25" DEEP)

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4268 WEST ROADS DRIVE

WEST PALM BEACH, FL. 33407

PHONE: (561)533-6061

FAX: (561)588-4780

Y.M.

DRAWN BY:

8/9/2023

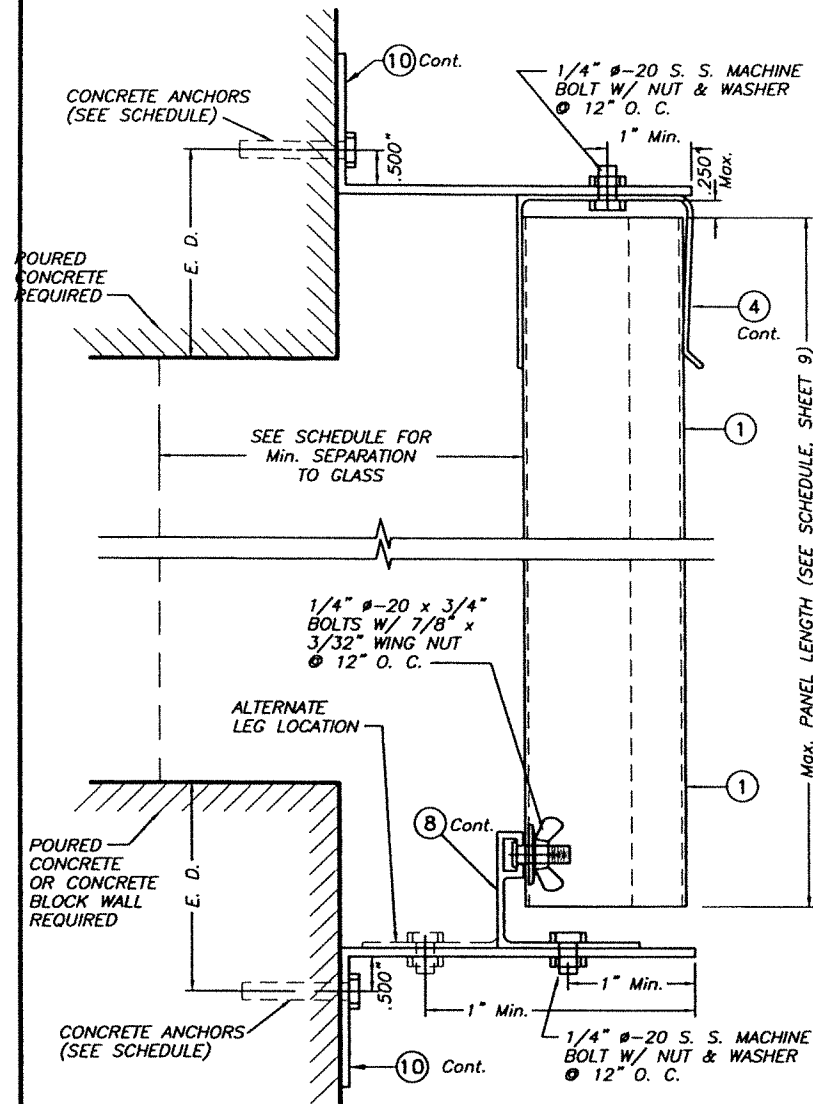
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23-158

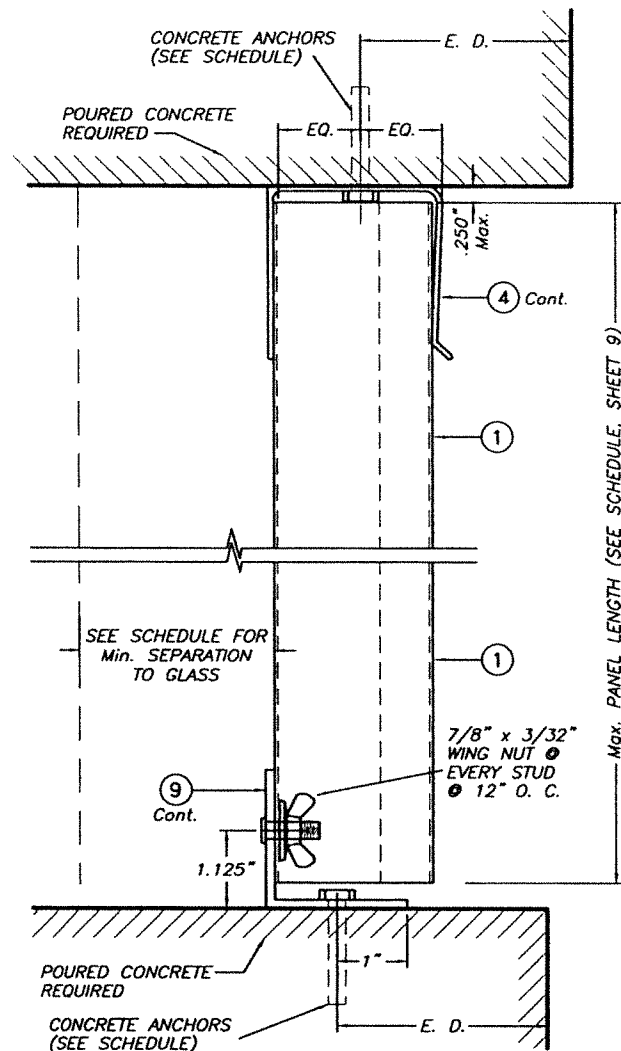
DRAWING No

SHEET 3 OF 15

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

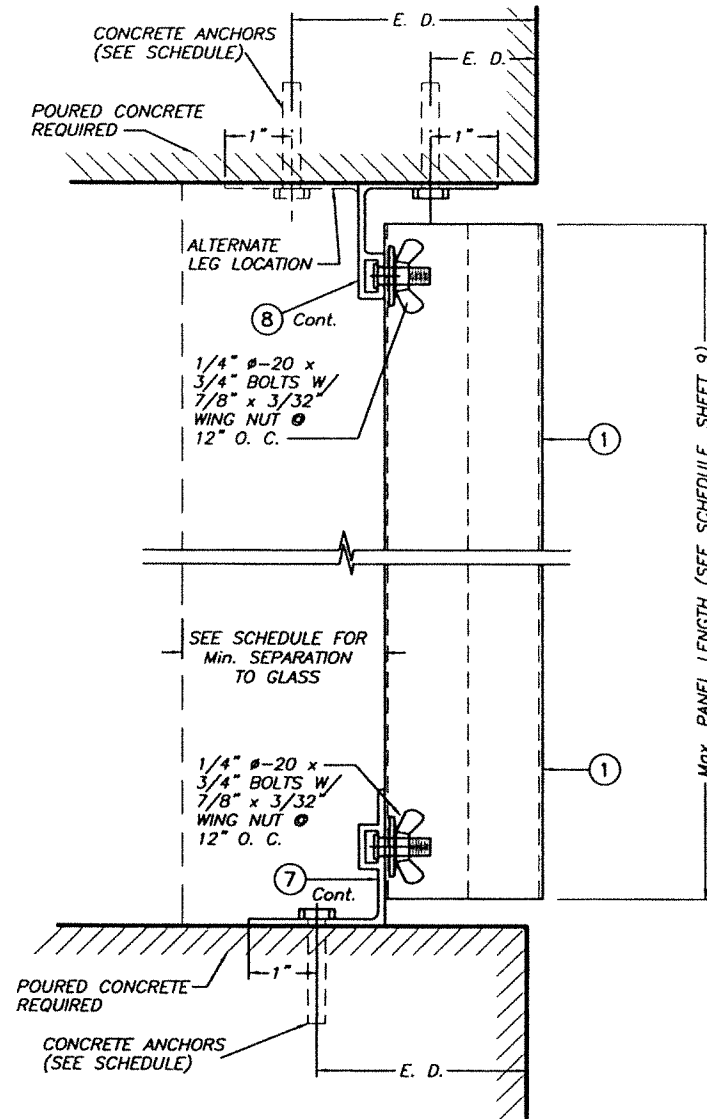


BUILD OUT INSTALLATION
- SECTION 5 SCALE : 3/8" = 1"



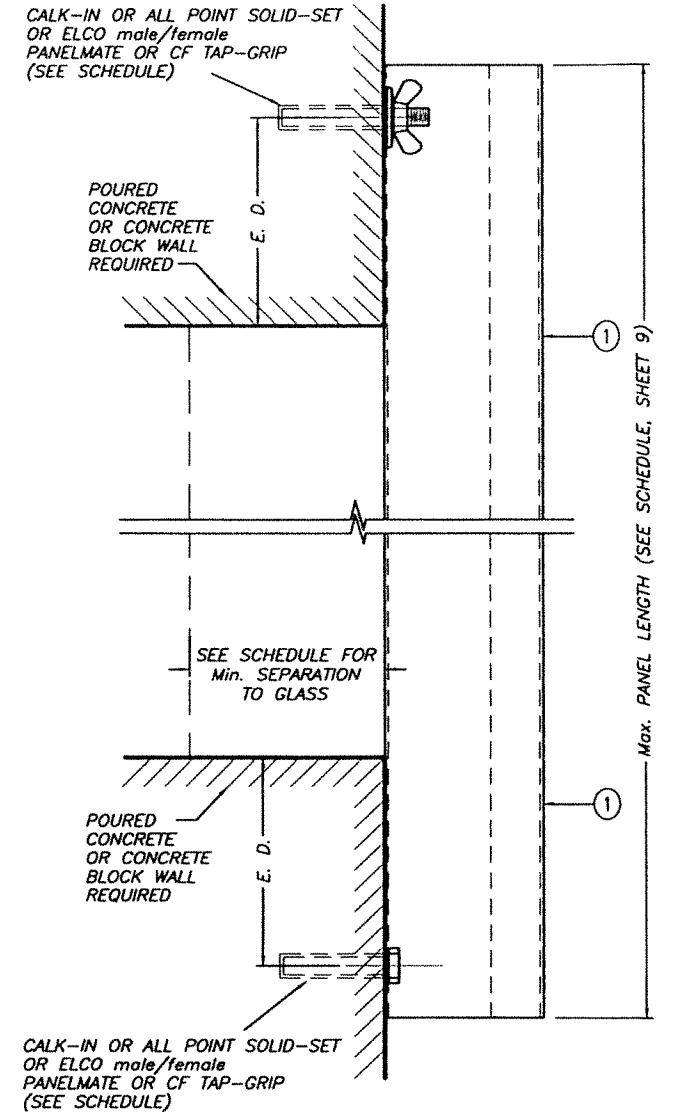
CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 6

SCALE : 3/8" = 1"



CEILING & FLOOR MOUNTING
INSTALLATION - SECTION 7

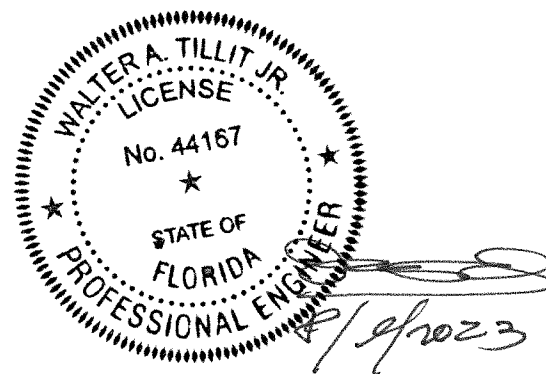
SCALE : 3/8" = 1"



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

E. D. = EDGE DISTANCE
 (SEE SCHEDULE ON
 SHEETS 10 & 11 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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0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)

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 PHONE: (561)533-6061
 FAX: (561)588-4780

Y.M.
 DRAWN BY:

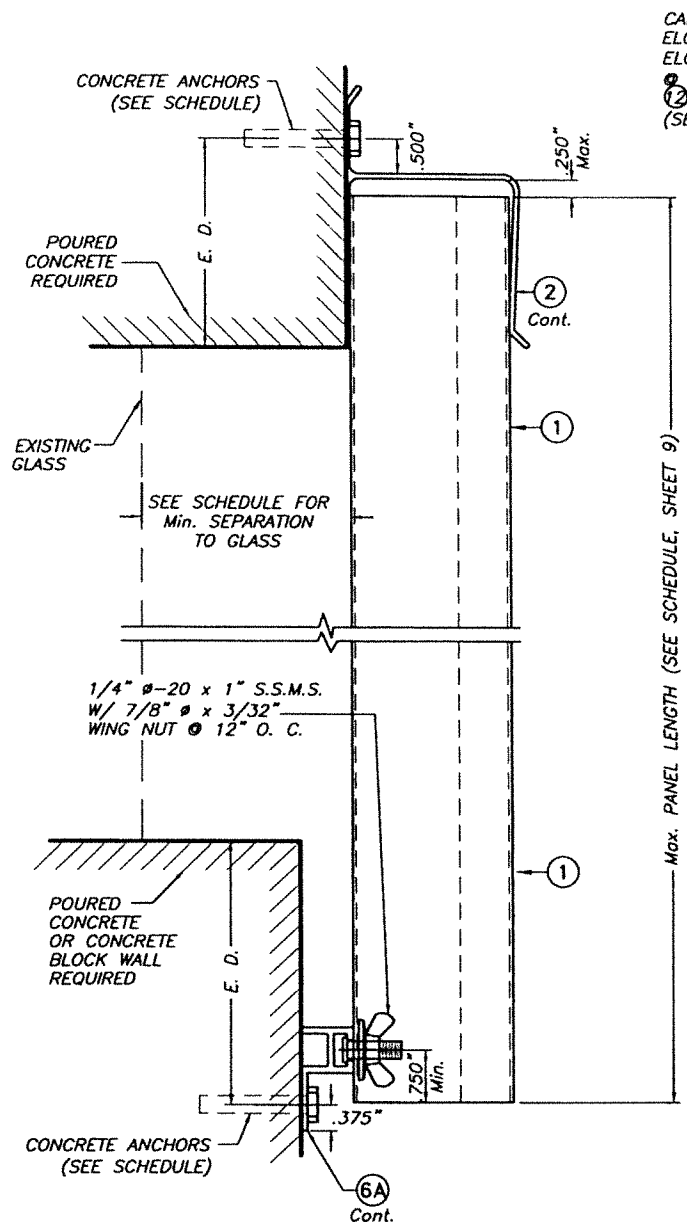
8/9/2023
 DATE:

23-158

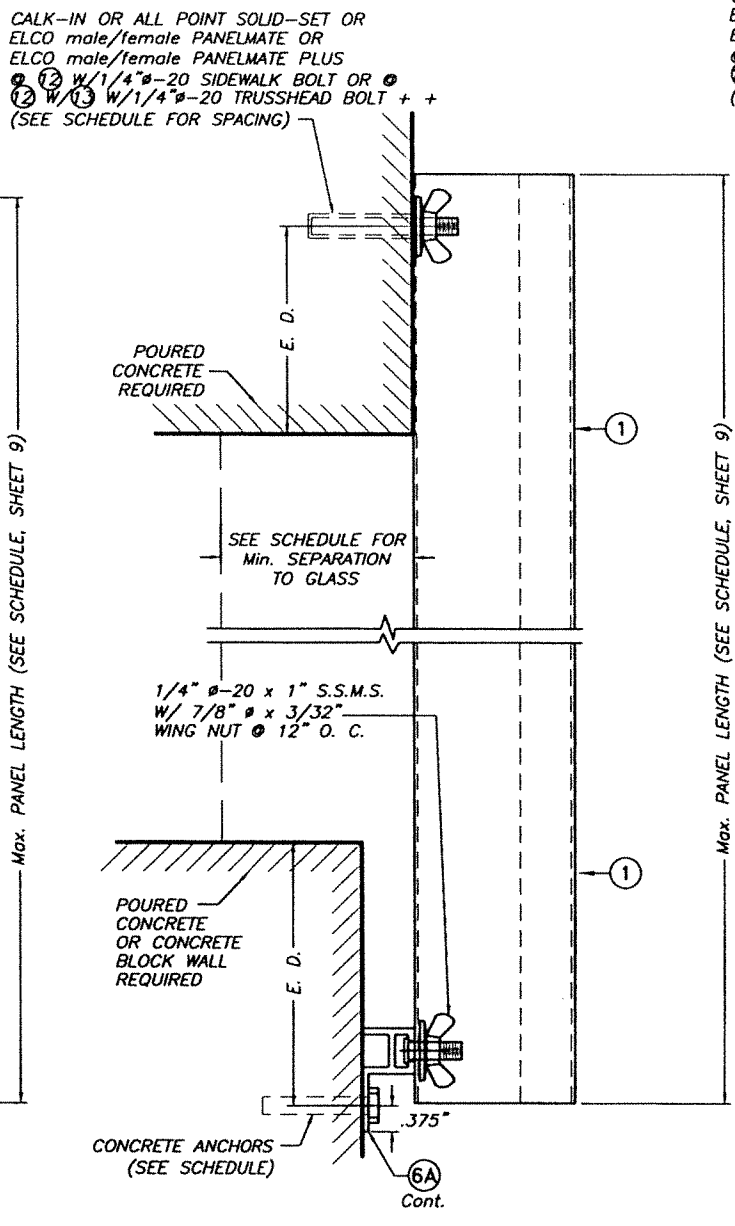
DRAWING No

SHEET 4 OF 15

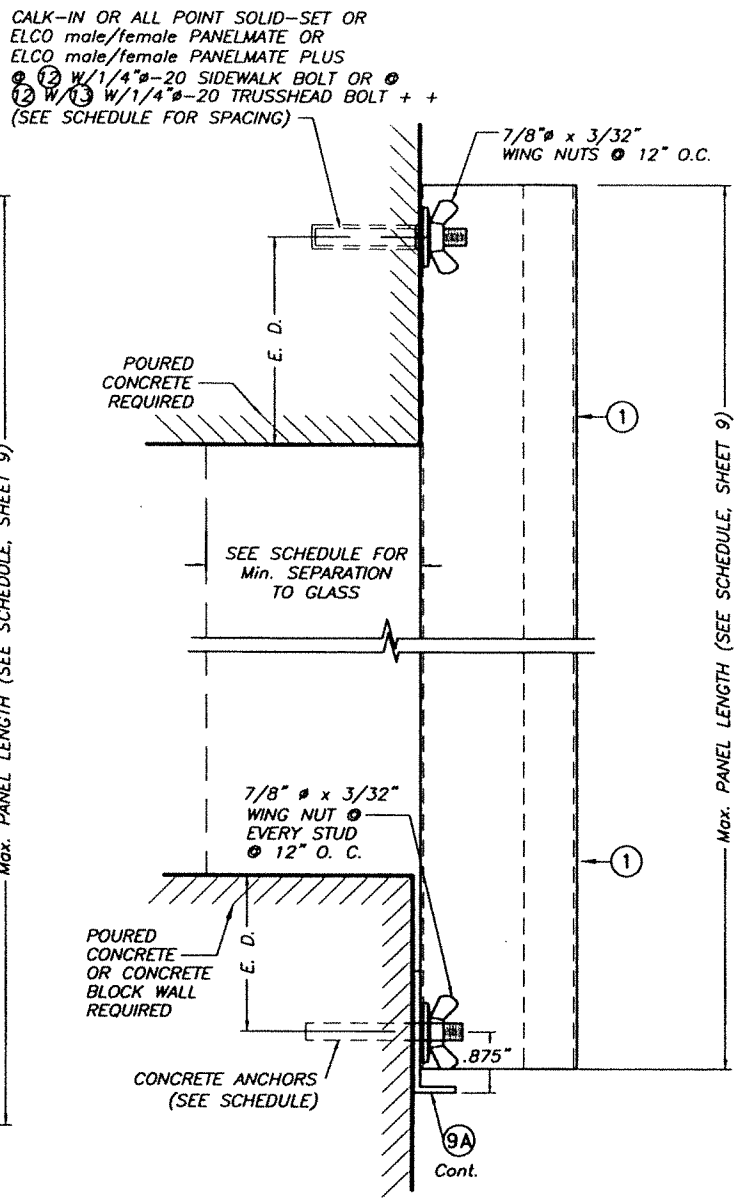
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 20-186	8/9/2023	3		
2			4		



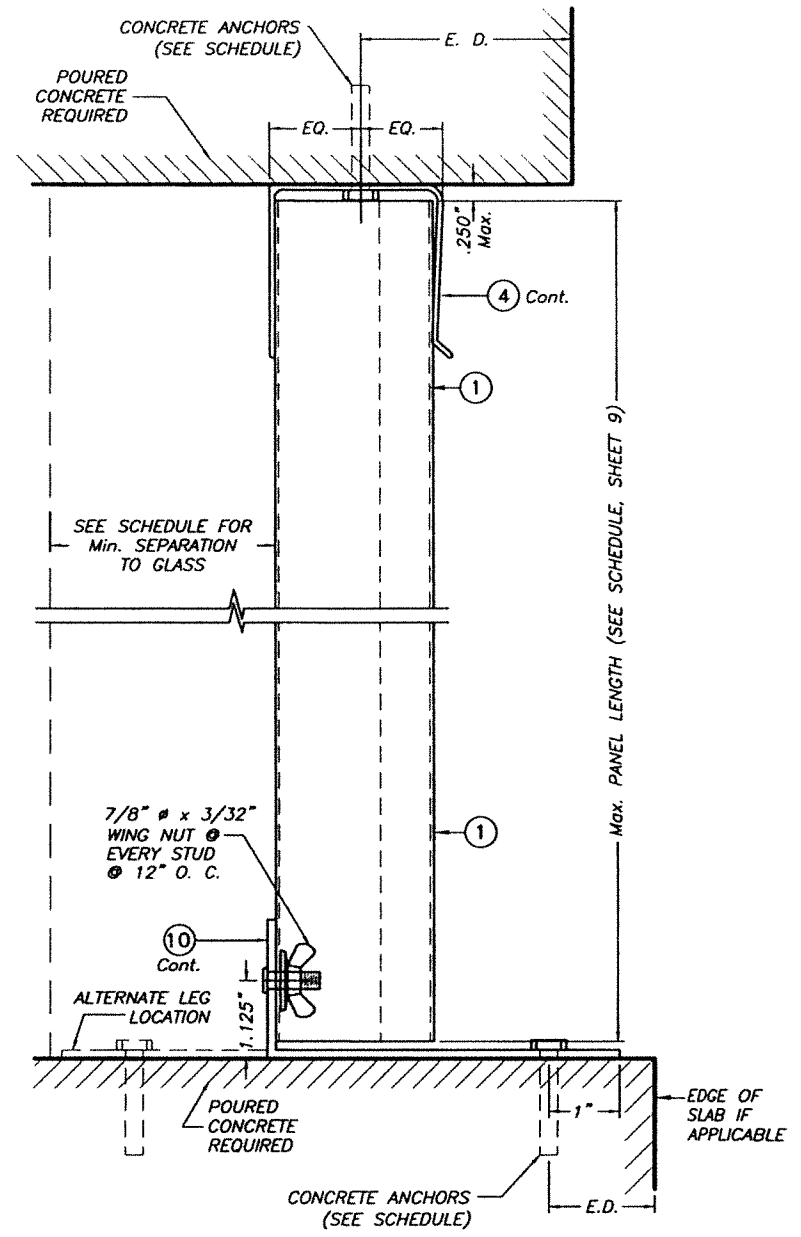
WALL MOUNTING INSTALLATION
SECTION 9
 SCALE : 3/8" = 1"



WALL MOUNTING INSTALLATION
SECTION 10
 SCALE : 3/8" = 1"



WALL MOUNTING INSTALLATION
SECTION 11
 SCALE : 3/8" = 1"

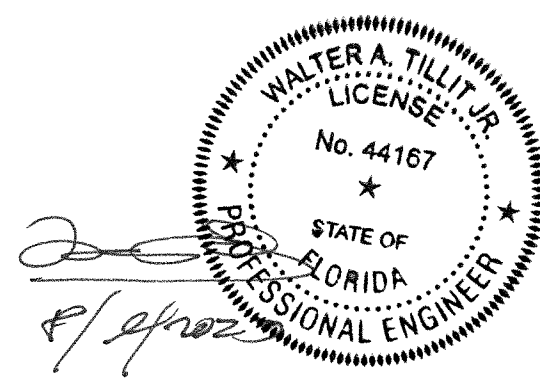


CEILING & FLOOR MOUNTING
INSTALLATION SECTION 12
 SCALE : 3/8" = 1"

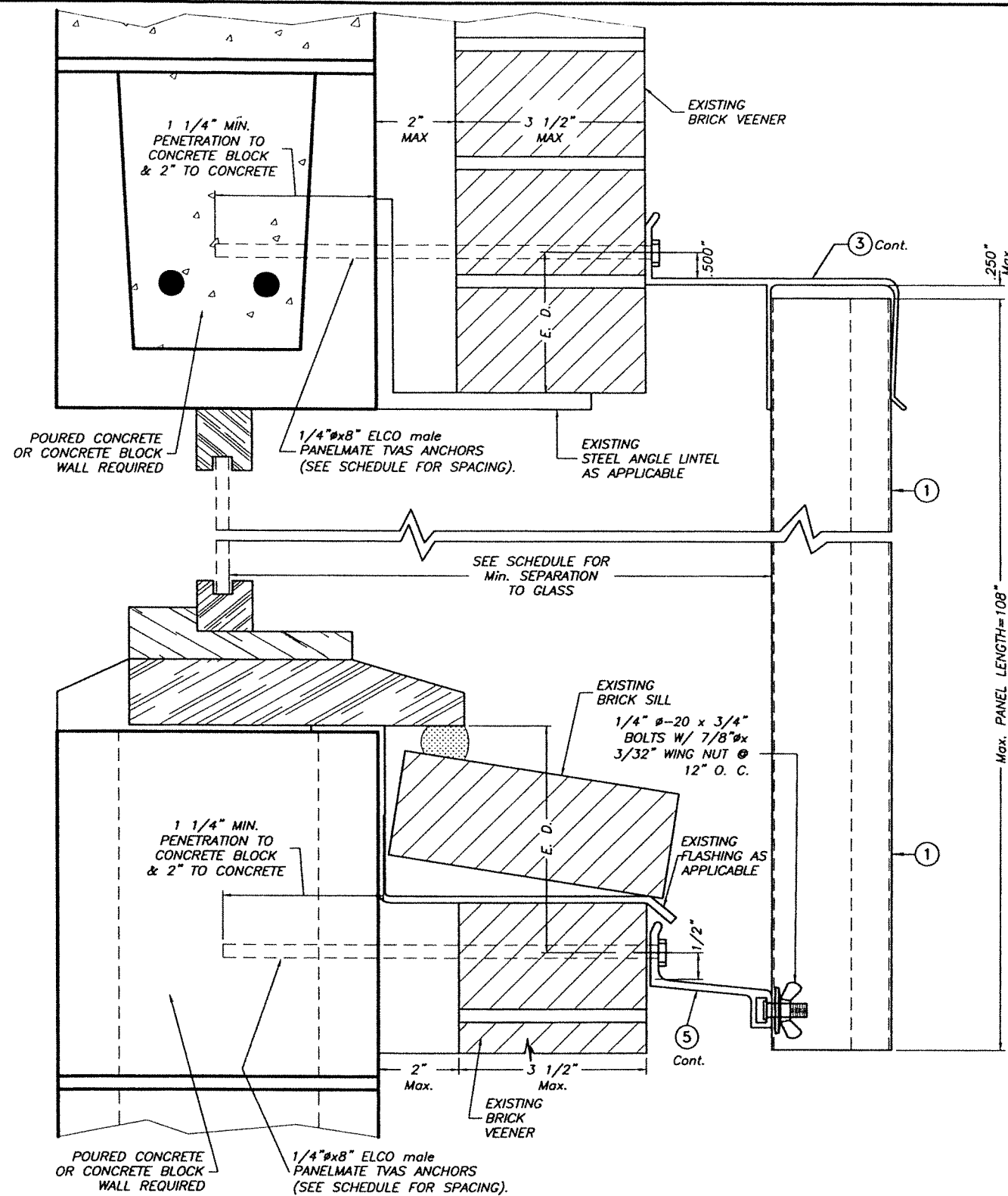
E. D. = EDGE DISTANCE
 (SEE SCHEDULE ON
 SHEETS 10 & 11 OF 15)

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\"/>



© 2023 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 (High Velocity Hurricane Zone) 0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP) EASTERN METAL SUPPLY, INC 4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (561)533-6061 FAX: (561)588-4780		Y.M. DRAWN BY: 8/9/2023 DATE: 23-158 DRAWING No SHEET 5 OF 15	
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 20-186	8/9/2023	3		
2			4		

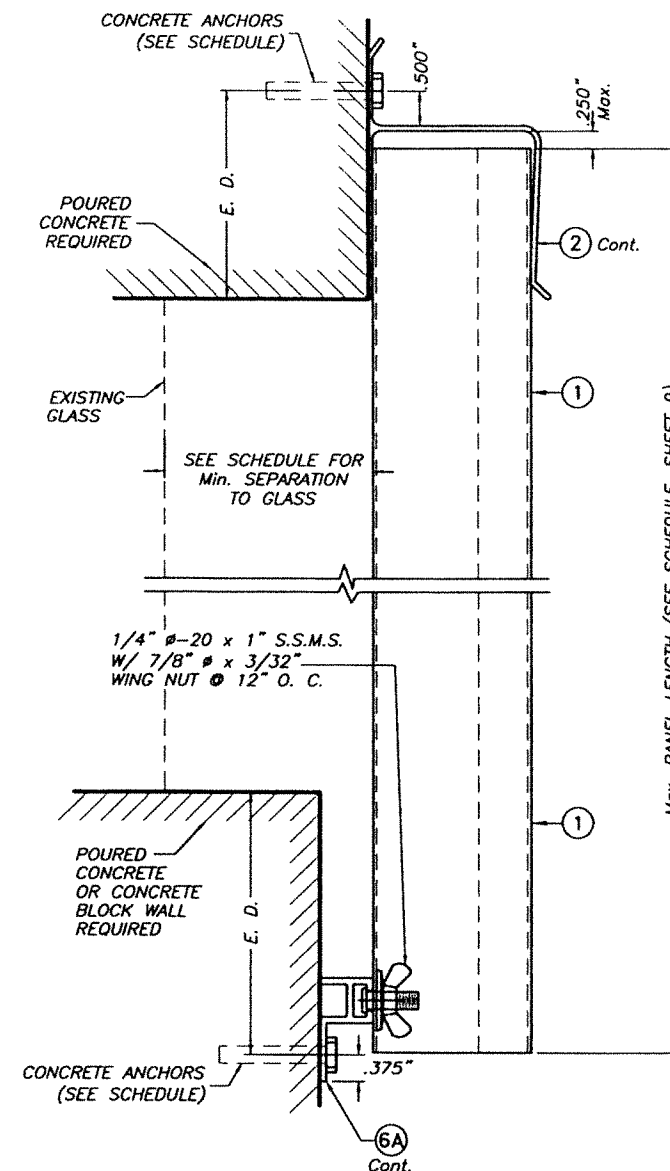


BUILD OUT INSTALLATION SECTION 13

SCALE : 3/8" = 1"

E. D. = EDGE DISTANCE
(SEE SCHEDULE ON
SHEETS 10 & 11 OF 15)

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



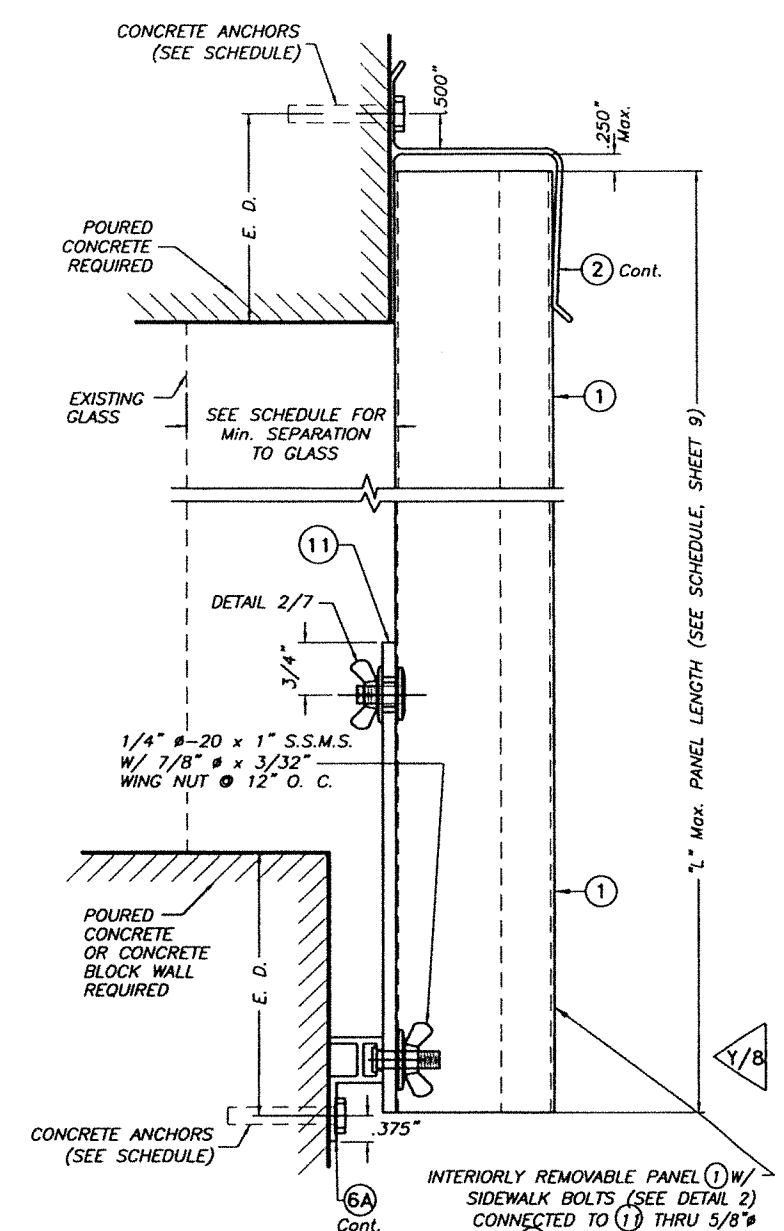
SECTION 14A

WALL MOUNTING INSTALLATIONS

SECTIONS 14

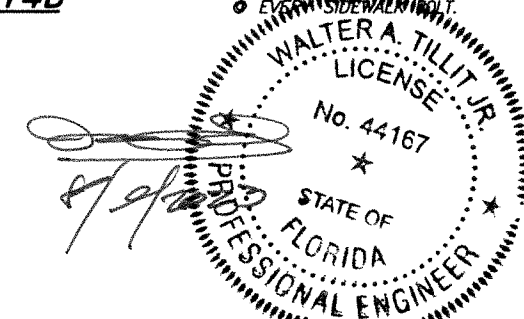
SCALE : 3/8" = 1"

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



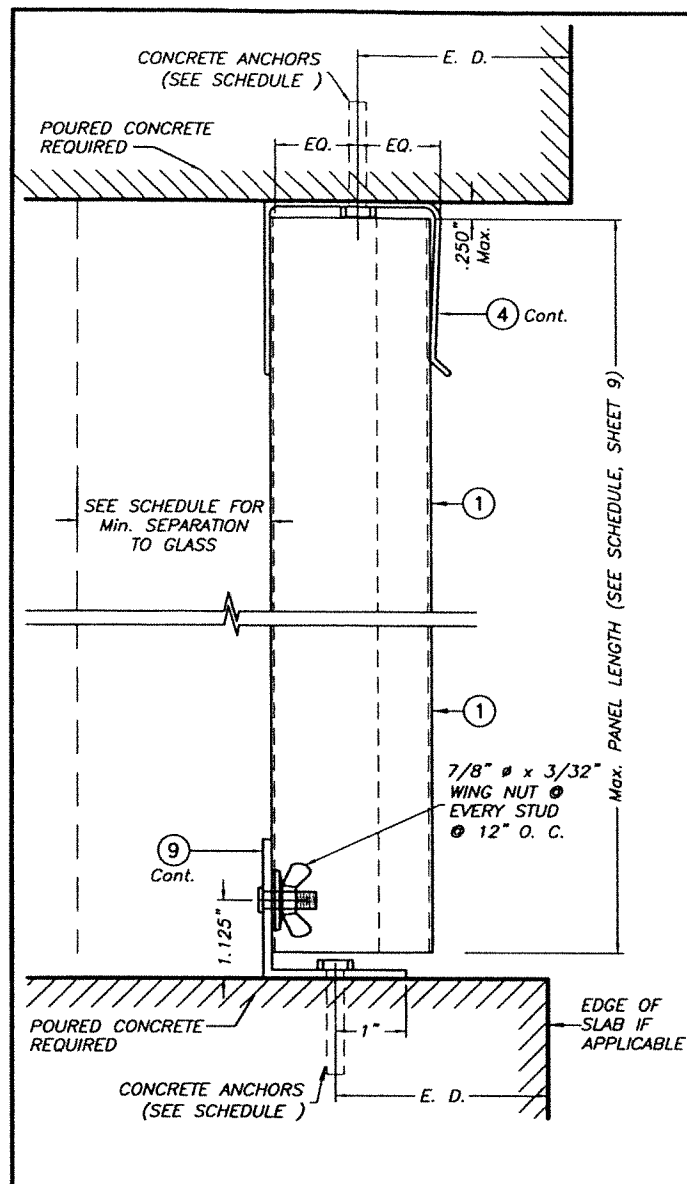
SECTION 14B

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

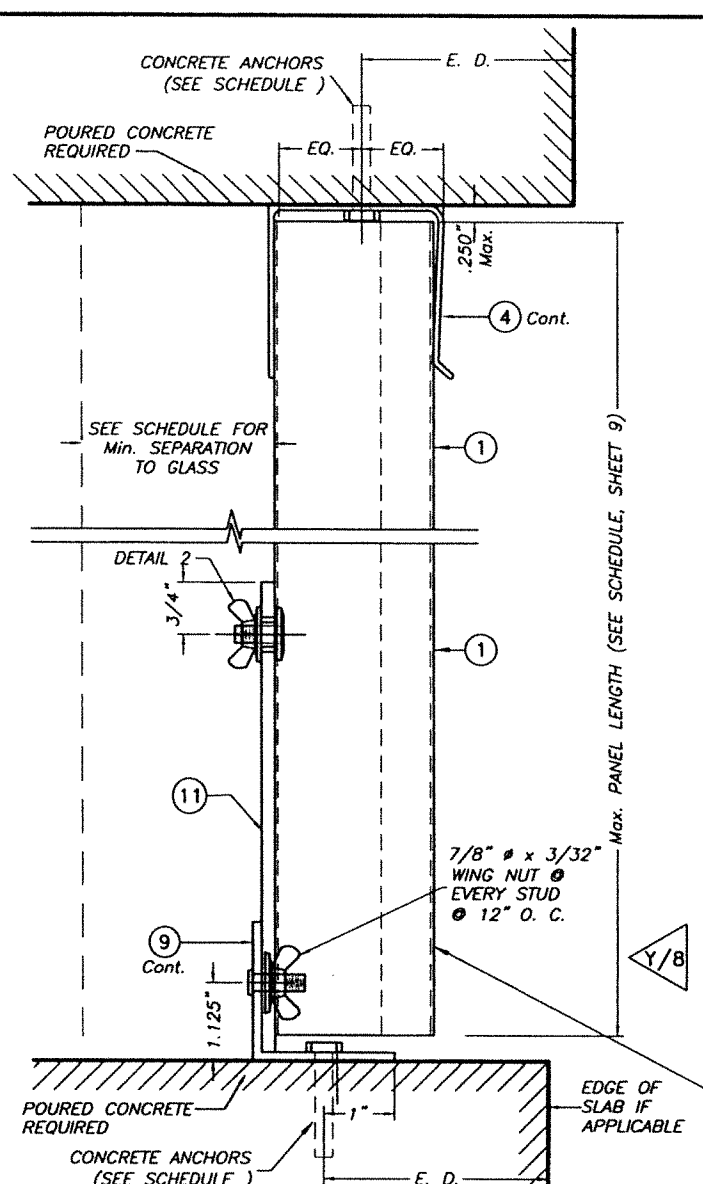


FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

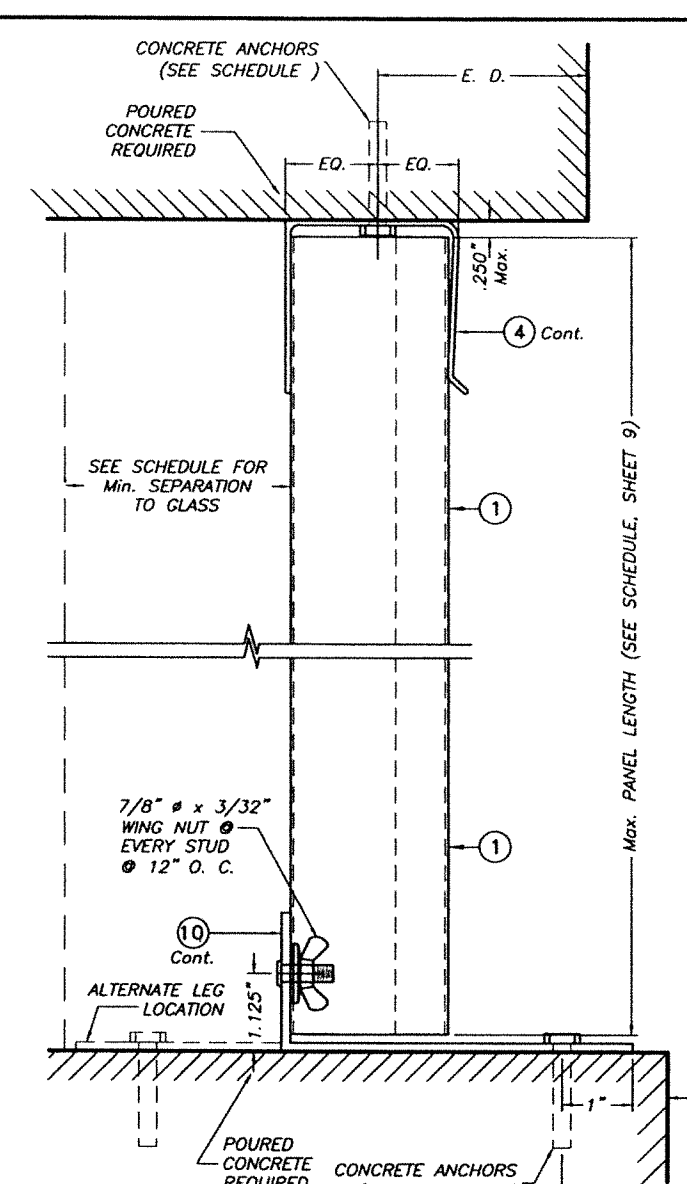
© 2023 TILTECO, INC.		0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)		Y.M. DRAWN BY:	
TILTECO INC.		EASTERN METAL SUPPLY, INC		8/9/2023 DATE:	
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)533-6061 FAX: (561)588-4780		23-158 DRAWING No	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-186	8/9/2023	3		
2			4		



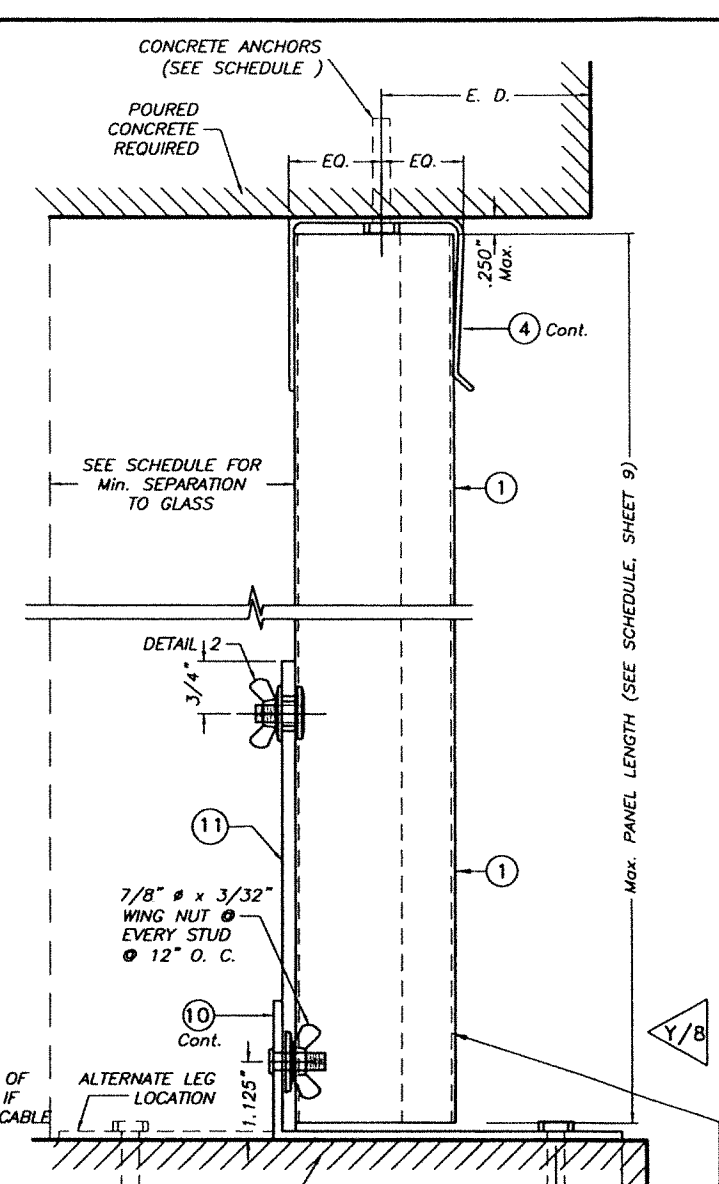
SECTION 15A
CEILING & FLOOR MOUNTING INSTALLATIONS
SECTIONS 15
 SCALE : 3/8" = 1"



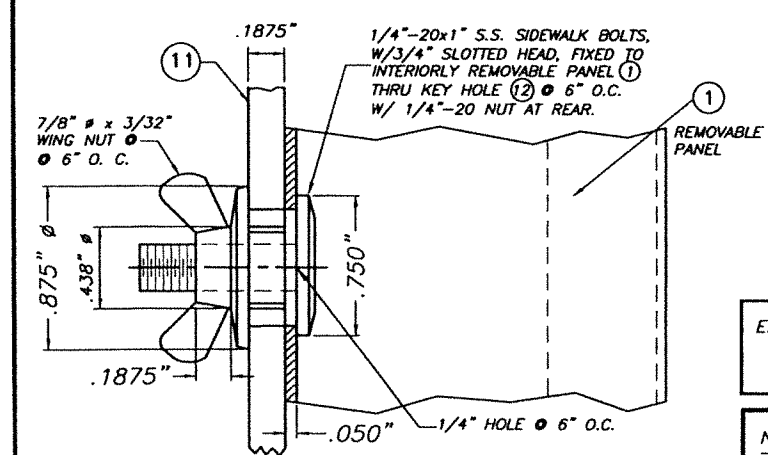
SECTION 15B
CEILING & FLOOR MOUNTING INSTALLATIONS
SECTIONS 15
 SCALE : 3/8" = 1"



SECTION 16A
CEILING & FLOOR MOUNTING INSTALLATIONS
SECTIONS 16
 SCALE : 3/8" = 1"



SECTION 16B
CEILING & FLOOR MOUNTING INSTALLATIONS
SECTIONS 16
 SCALE : 3/8" = 1"

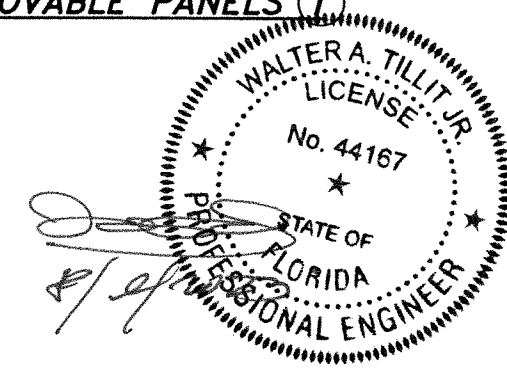


DETAIL 2 - INSTALLATION OF 1/4" x 1"
SIDEWALK BOLTS @ REMOVABLE PANEL
 SCALE: 1" = 1"

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

E. D. = EDGE DISTANCE
 (SEE SCHEDULE ON SHEET 10 & 11 OF 15)

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



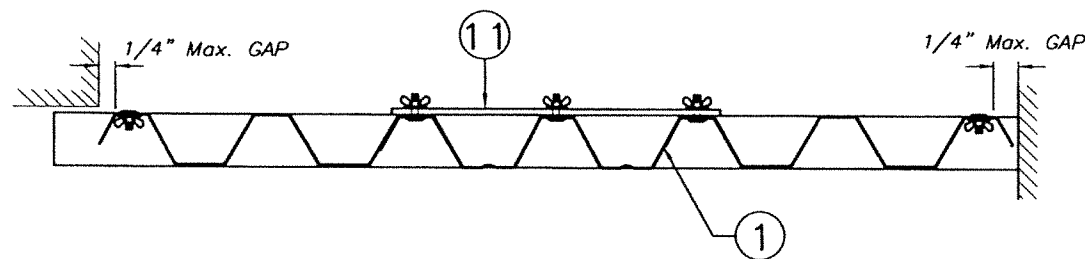
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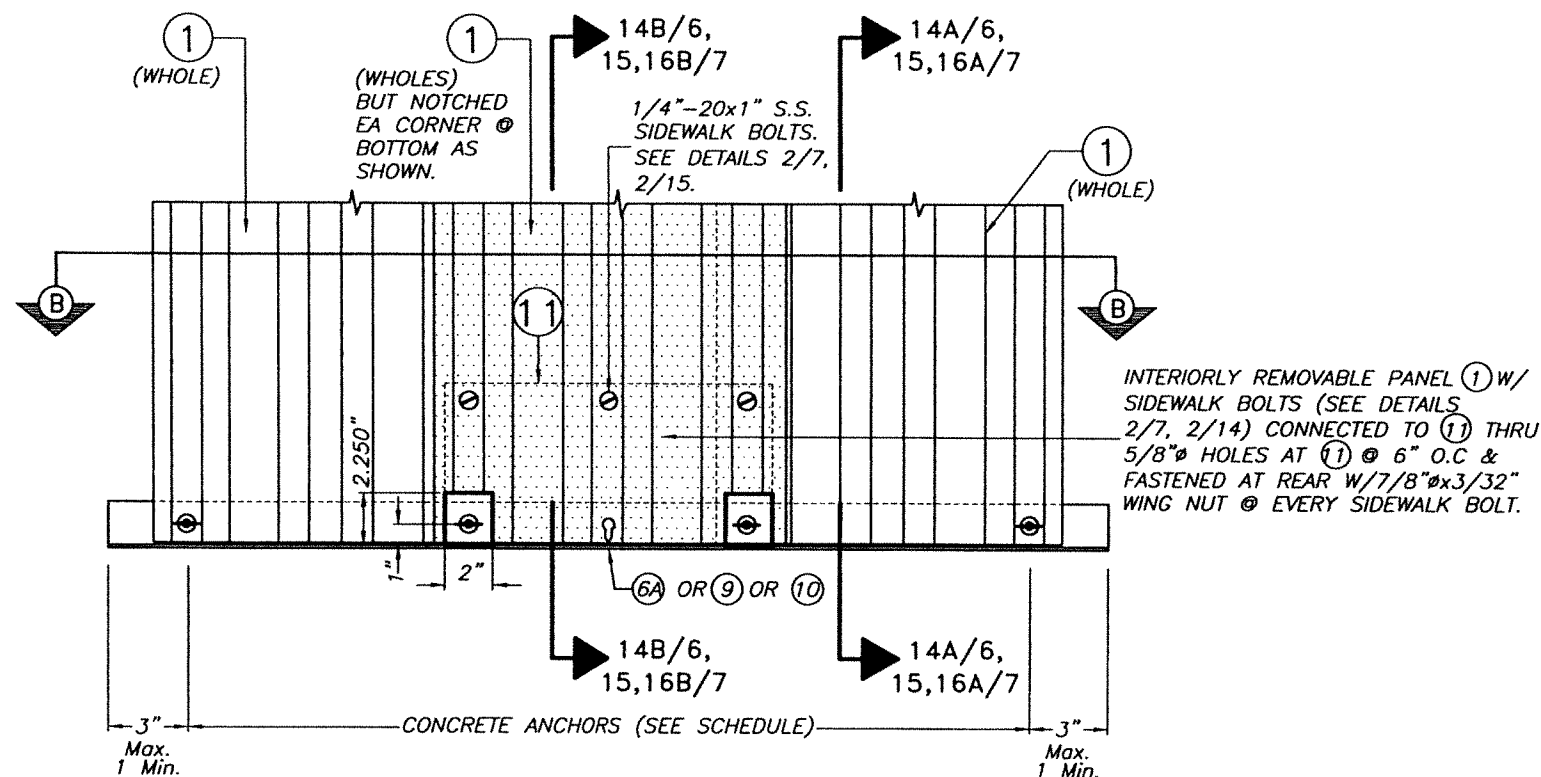
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)			Y.M. DRAWN BY:		
EASTERN METAL SUPPLY, INC			8/9/2023 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (561)533-6061 FAX: (561)588-4780			23-158 DRAWING No		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-186	8/9/2023	3		
2			4		
					SHEET 7 OF 15



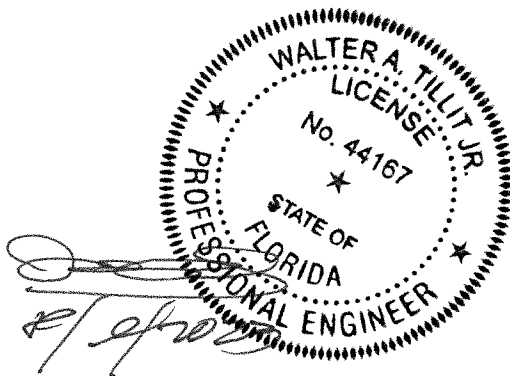
SECTION B-B

SCALE : 1/8" = 1"



INTERIORLY REMOVABLE STORM PANEL PARTIAL ELEVATION Y

SCALE : 1/8" = 1"



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0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL 33407
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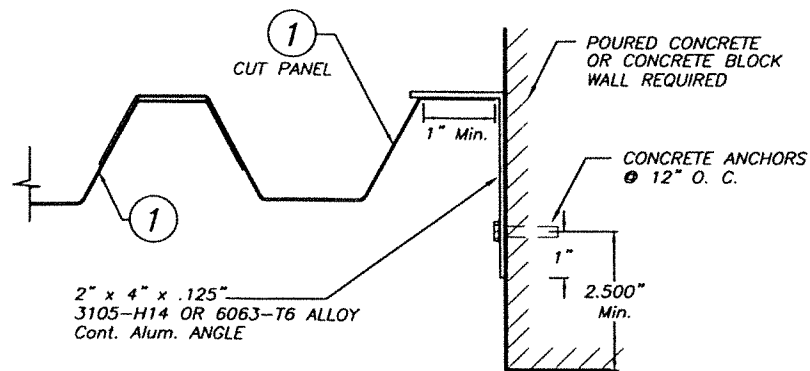
Y.M.
DRAWN BY:

8/9/2023
DATE:

23-158
DRAWING No

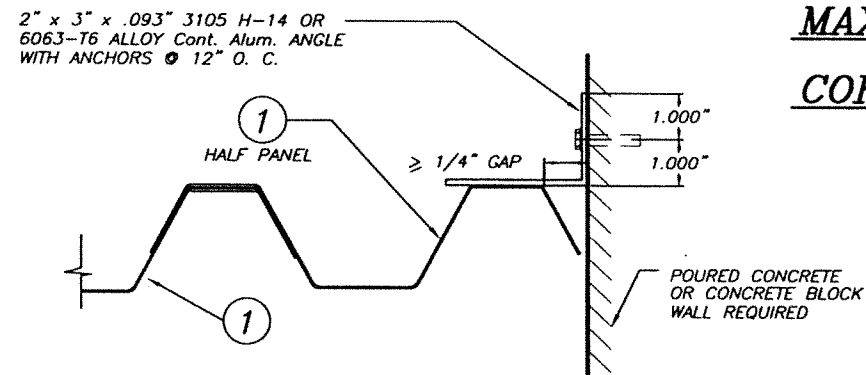
SHEET 8 OF 15

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-186	8/9/2023	3		
2			4		



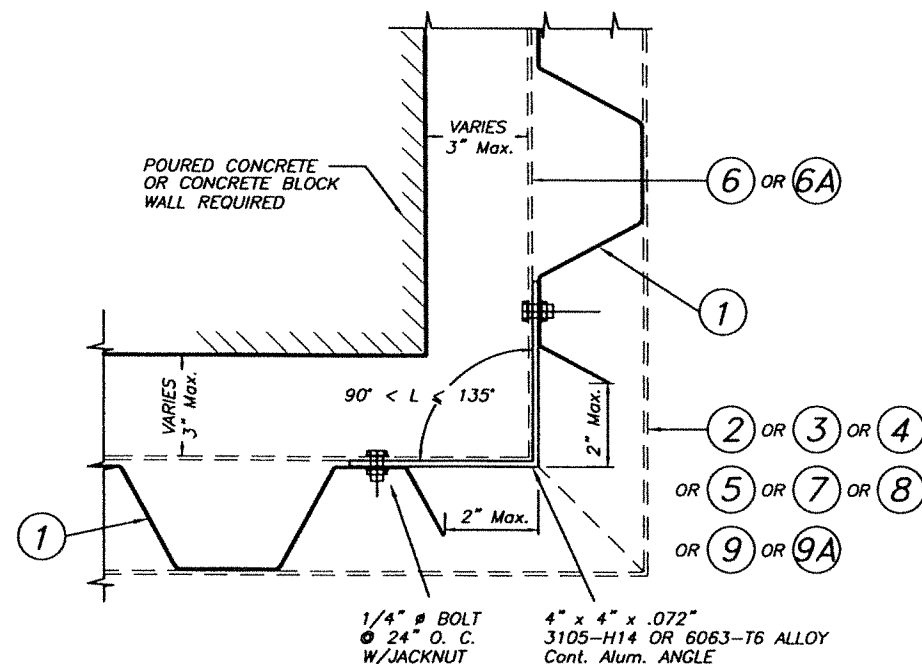
CASE A (Plan)

SCALE: 1/4" = 1"



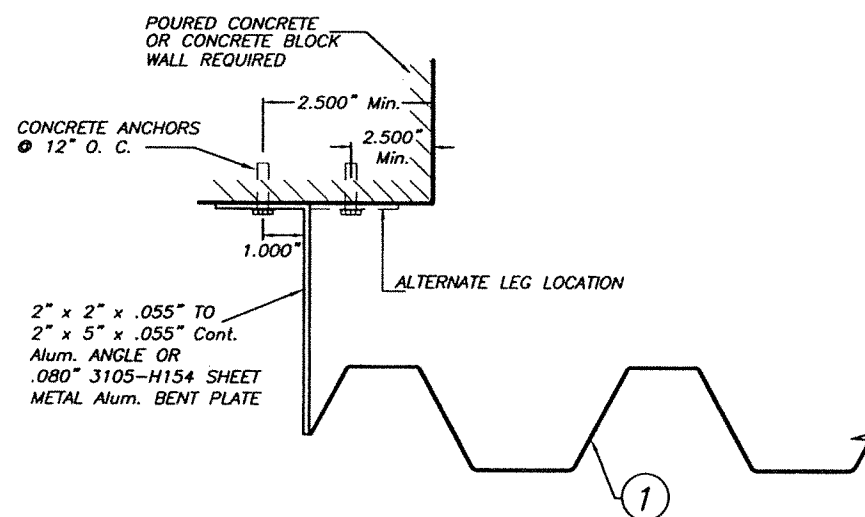
CASE D (Plan)

SCALE: 1/4" = 1"



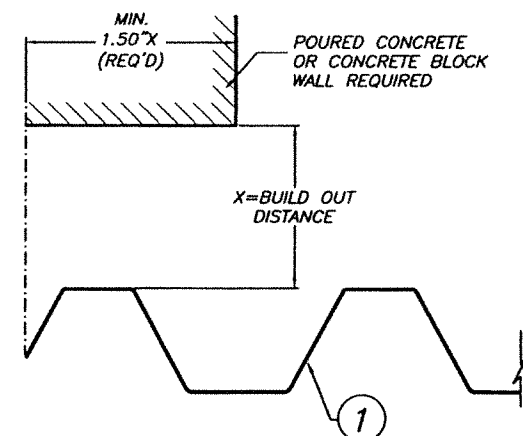
CASE B (Plan)

SCALE: 1/4" = 1"



CASE C (Plan)

SCALE: 1/4" = 1"



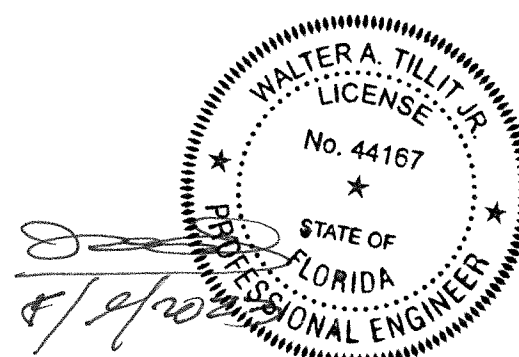
CASE D (Plan)

SCALE: 1/4" = 1"

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

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	Max. PANEL LENGTH L (ft.) (SEE SECTIONS)	MINIMUM SEPARATION TO GLASS	APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM
+65.0, -77.0	8'-0" OR LESS	2 1/4"	1 THRU 8
+65.0, -77.0	9'-0" OR LESS	3 11/16"	1 THRU 8
+65.0, -72.0	9'-0" OR LESS	3 1/2"	11
+62.0, -73.3	10'-0" OR LESS	3 7/8"	2, 6, 7 & 8
+63.5, -63.5	9'-0" OR LESS	3 1/2"	9, 14, 10
+65.0, -65.0	9'-0" OR LESS	3 1/2"	12, 15, 16
+63.5, -63.5	9'-0" OR LESS	3 3/4"	13

END CLOSURES DETAILS



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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 (High Velocity Hurricane Zone)

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

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)533-6061
FAX: (561)588-4780

Y.M.
DRAWN BY:

8/9/2023
DATE:

23-158
DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-106	8/9/2023	3		
2			4		

SHEET 9 OF 15

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

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" *																		APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	REGULAR TAPCONS		CRETE-FLEX SS4		ZAMAC NAILIN		CALK-IN		SOLID-SET		CF TAP-GRIP		PANELMATES		PANELMATE PLUS		410 S.S. TAPCON			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+63.5, -63.5	8"	N/A	N/A	N/A	4"	N/A	8"	N/A	N/A	N/A	5"	N/A	3 1/2"	N/A	N/A	N/A	N/A	N/A	1 (TOP)	9'-0" OR LESS
	12"	4"	N/A	N/A	10"	7 1/2"	12"	7"	N/A	N/A	12"	6"	11"	8"	12"	7 1/2"	N/A	N/A	1 (BOTTOM)	
	12"	N/A	N/A	N/A	10"	N/A	12"	N/A	N/A	N/A	12"	N/A	11"	N/A	N/A	N/A	N/A	N/A	2 (TOP)	
	12"	4"	N/A	N/A	10"	7 1/2"	12"	7"	N/A	N/A	12"	6"	11"	8"	12"	7 1/2"	N/A	N/A	2 (BOTTOM)	
	12"	N/A	N/A	N/A	10"	N/A	12"	N/A	N/A	N/A	12"	N/A	11"	N/A	N/A	N/A	N/A	N/A	3 (TOP)	
	12"	4"	N/A	N/A	10"	7 1/2"	12"	7"	N/A	N/A	12"	6"	11"	8"	12"	7 1/2"	N/A	N/A	3 (BOTTOM)	
	12"	N/A	N/A	N/A	10"	N/A	12"	N/A	N/A	N/A	12"	N/A	11"	N/A	N/A	N/A	N/A	N/A	4 (TOP)	
	12"	4"	N/A	N/A	10"	7 1/2"	12"	7"	N/A	N/A	12"	6"	11"	8"	12"	7 1/2"	N/A	N/A	4 (BOTTOM)	
	12"	N/A	N/A	N/A	10"	N/A	12"	N/A	N/A	N/A	12"	N/A	11"	N/A	N/A	N/A	N/A	N/A	5 (TOP)	
	12"	4"	N/A	N/A	10"	7 1/2"	12"	7"	N/A	N/A	12"	6"	11"	6"	12"	7 1/2"	N/A	N/A	5 (BOTTOM)	
	8 1/2"	N/A	12"	N/A	5 1/2"	N/A	7 1/2"	N/A	N/A	N/A	8 1/2"	N/A	11 1/2"	N/A	11"	N/A	9 1/2"	N/A	6 (TOP)	
	8 1/2"	N/A	12"	N/A	5 1/2"	N/A	7 1/2"	N/A	10 1/2"	N/A	8 1/2"	N/A	11 1/2"	N/A	11"	N/A	9 1/2"	N/A	6 (BOTTOM)	
	7 1/2"	N/A	11 1/2"	N/A	5"	N/A	7"	N/A	10 1/2"	N/A	7"	N/A	10 1/2"	N/A	10"	N/A	8 1/2"	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	7"	12"	12"	12"	6"	6"	6"	12"	12"	N/A	N/A	8 (TOP/BOTTOM)	
	12"	N/A	12"	N/A	N/A	N/A	12"	N/A	N/A	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	9 (TOP)	
	12"	4"	12"	10"	N/A	N/A	12"	9"	N/A	N/A	N/A	N/A	12"	8"	12"	7 1/2"	12"	6"	9 (BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	6"	12"	12"	N/A	N/A	12"	8"	12"	6"	N/A	N/A	10 (TOP)	
	12"	4"	12"	10"	N/A	N/A	12"	9"	N/A	N/A	N/A	N/A	12"	8"	12"	7 1/2"	12"	6"	10 (BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12"	9"	N/A	N/A	N/A	N/A	13 (TOP)	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12"	8"	N/A	N/A	N/A	N/A	13 (BOTTOM)	
	12"	N/A	12"	N/A	N/A	N/A	12"	N/A	N/A	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	14 (TOP)	
	12"	4"	12"	10"	N/A	N/A	12"	9"	N/A	N/A	N/A	N/A	12"	8	12"	7 1/2"	12"	6"	14A (BOTTOM)	
	12"	N/A	12"	7"	N/A	N/A	12"	6 1/2"	N/A	N/A	N/A	N/A	12"	6"	12"	5 1/2"	12"	4"	14B (BOTTOM)	
	11 1/2"	N/A	12"	N/A	N/A	N/A	12"	N/A	N/A	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	12 (TOP)	
	8 1/2"	N/A	12"	N/A	N/A	N/A	7 1/2"	N/A	10 1/2"	N/A	N/A	N/A	11 1/2"	N/A	11"	N/A	9 1/2"	N/A	12 (BOTTOM)	
	11 1/2"	N/A	12"	N/A	N/A	N/A	12"	N/A	N/A	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	15 (TOP)	
	8 1/2"	N/A	12"	N/A	N/A	N/A	7 1/2"	N/A	N/A	N/A	N/A	N/A	11 1/2"	N/A	11"	N/A	9 1/2"	N/A	15A (BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3"	N/A	3"	N/A	3"	N/A	15B (BOTTOM)	
	11 1/2"	N/A	12"	N/A	N/A	N/A	12"	N/A	N/A	N/A	N/A	N/A	12"	N/A	12"	N/A	12"	N/A	16 (TOP)	
	8 1/2"	N/A	12"	N/A	N/A	N/A	7 1/2"	N/A	N/A	N/A	N/A	N/A	11 1/2"	N/A	11"	N/A	9 1/2"	N/A	16A (BOTTOM)	
	3" **	N/A	N/A	N/A	N/A	N/A	3"	N/A	N/A	N/A	N/A	N/A	4"	N/A	4"	N/A	4"	N/A	16B (BOTTOM)	
+65.0, -65.0	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	N/A	N/A	N/A	N/A	2 (TOP)	9'-0" TO 10'-0"
	6"	4"	N/A	N/A	6"	6"	6"	6"	N/A	N/A	6"	5"	6"	6"	N/A	N/A	N/A	N/A	2 (BOTTOM)	
	6"	N/A	N/A	N/A	4 1/2"	N/A	6"	N/A	N/A	N/A	6"	N/A	5 1/2"	N/A	N/A	N/A	N/A	N/A	6 (TOP)	
	6"	N/A	N/A	N/A	4 1/2"	N/A	6"	N/A	9 1/2"	N/A	6"	N/A	5 1/2"	N/A	N/A	N/A	N/A	N/A	6 (BOTTOM)	
	6"	N/A	N/A	N/A	4"	N/A	6"	N/A	9 1/2"	N/A	6"	N/A	4 1/2"	N/A	N/A	N/A	N/A	N/A	7 (TOP/BOTTOM)	
N/A	N/A	N/A	N/A	N/A	N/A	6"	6"	12"	11"	6"	5"	6"	5"	N/A	N/A	N/A	N/A	8 (TOP/BOTTOM)	*	

E. D. = EDGE DISTANCE

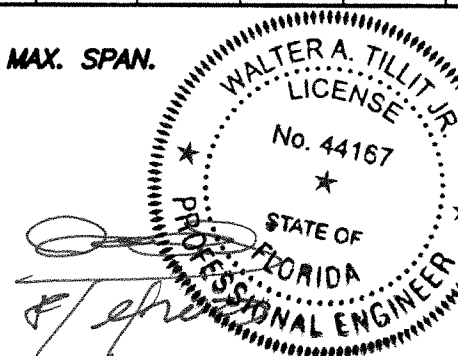
ANCHORS LEGEND

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

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

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

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



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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 (High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (561)533-6061
FAX: (561)588-4780

Y.M.
DRAWN BY:

8/9/2023
DATE:

23-158

DRAWING No

REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-186	8/9/2023	3		
2			4		

SHEET 10 OF 15

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

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" *																		APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	REGULAR TAPCONS		CRETE-FLEX SS4		ZAMAC NAILIN		CALK-IN		SOLID-SET		CF TAP-GRIP		PANELMATES		PANELMATE PLUS		410 S.S. TAPCON			
	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK	TO CONCRETE	TO BLOCK		
+65.0, -77.0	6"	N/A	N/A	N/A	3"	N/A	6"	N/A	N/A	N/A	3 1/2"	N/A	2 1/2"	N/A	N/A	N/A	N/A	N/A	1 (TOP)	9'-0" OR LESS
	12"	4"	N/A	N/A	10"	6"	12"	6"	N/A	N/A	12"	4"	9 1/2"	7"	N/A	N/A	N/A	N/A	1 (BOTTOM)	
	12"	N/A	N/A	N/A	10"	N/A	12"	N/A	N/A	N/A	12"	N/A	9 1/2"	N/A	N/A	N/A	N/A	N/A	2 (TOP)	
	12"	4"	N/A	N/A	10"	6"	12"	6"	N/A	N/A	12"	4"	9 1/2"	7"	N/A	N/A	N/A	N/A	2 (BOTTOM)	
	12"	N/A	N/A	N/A	10"	N/A	12"	N/A	N/A	N/A	12"	N/A	9 1/2"	N/A	N/A	N/A	N/A	N/A	3 (TOP)	
	12"	4"	N/A	N/A	8"	6"	12"	6"	N/A	N/A	12"	4"	9 1/2"	7"	N/A	N/A	N/A	N/A	3 (BOTTOM)	
	12"	N/A	N/A	N/A	10"	N/A	12"	N/A	N/A	N/A	12"	N/A	9 1/2"	N/A	N/A	N/A	N/A	N/A	4 (TOP)	
	12"	4"	N/A	N/A	8"	6"	12"	6"	N/A	N/A	12"	4"	9 1/2"	7"	N/A	N/A	N/A	N/A	4 (BOTTOM)	
	12"	N/A	N/A	N/A	8"	N/A	12"	N/A	N/A	N/A	12"	N/A	9 1/2"	N/A	N/A	N/A	N/A	N/A	5 (TOP)	
	12"	N/A	N/A	N/A	7"	5"	12"	5"	N/A	N/A	10"	4"	7 1/2"	4"	N/A	N/A	N/A	N/A	5 (BOTTOM)	
	7"	N/A	N/A	N/A	4 1/2"	N/A	6"	N/A	N/A	N/A	7"	N/A	5"	N/A	N/A	N/A	N/A	N/A	6 (TOP)	
	7"	N/A	N/A	N/A	4 1/2"	N/A	6"	N/A	9"	N/A	7"	N/A	5"	N/A	N/A	N/A	N/A	N/A	6 (BOTTOM)	
	6"	N/A	N/A	N/A	4"	N/A	5 1/2"	N/A	9"	N/A	6"	N/A	4 1/2"	N/A	N/A	N/A	N/A	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	12"	6"	12"	10"	12"	4"	6"	4"	N/A	N/A	N/A	N/A	8 (TOP/BOTTOM)	
+65.0, -72.0	6 1/2"	N/A	12"	N/A	N/A	N/A	6"	N/A	9 1/2"	N/A	N/A	N/A	9"	N/A	9"	N/A	7 1/2"	N/A	7 (TOP/BOTTOM)	9'-0" OR LESS
	N/A	N/A	N/A	N/A	N/A	N/A	12"	6"	12"	11"	N/A	N/A	12"	6"	12"	6"	N/A	N/A	11 (TOP)	
	12"	4"	12"	9"	N/A	N/A	12"	8"	12"	11"	N/A	N/A	12"	7"	12"	6 1/2"	12"	5"	11 (BOTTOM)	
+62.0, -73.3	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	12"	10"	6"	N/A	6"	N/A	N/A	N/A	N/A	N/A	2 (TOP)	9'-0" TO 10'-0"
	6"	N/A	N/A	N/A	6"	5 1/2"	6"	5"	N/A	N/A	6"	4"	6"	6"	N/A	N/A	N/A	N/A	2 (BOTTOM)	
	6"	N/A	N/A	N/A	4"	N/A	6"	N/A	N/A	N/A	6"	N/A	5"	N/A	N/A	N/A	N/A	N/A	6 (TOP)	
	6"	N/A	N/A	N/A	4"	N/A	6"	N/A	8"	N/A	6"	N/A	5"	N/A	N/A	N/A	N/A	N/A	6 (BOTTOM)	
	6"	N/A	N/A	N/A	5"	N/A	6"	N/A	8"	N/A	5 1/2"	N/A	4"	N/A	N/A	N/A	N/A	N/A	7 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	6"	5"	12"	10"	6"	4"	6"	4"	N/A	N/A	N/A	N/A	8 (TOP/BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12"	10"	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1 (BOTTOM) 10 (TOP) 11 (TOP/BOTTOM)	

E. D. = EDGE DISTANCE

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

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

ANCHORS LEGEND

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

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

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL
(2.25" DEEP)

EASTERN METAL SUPPLY, INC

4268 WEST ROADS DRIVE
WEST PALM BEACH, FL 33407
PHONE: (561)533-6061
FAX: (561)588-4780

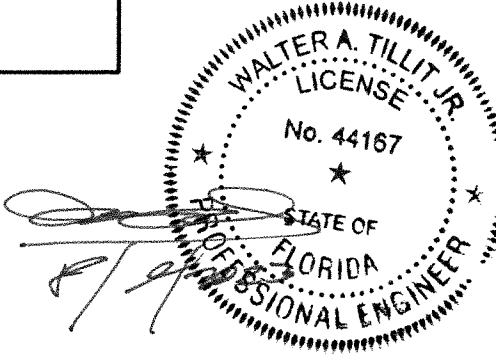
Y.M.
DRAWN BY:

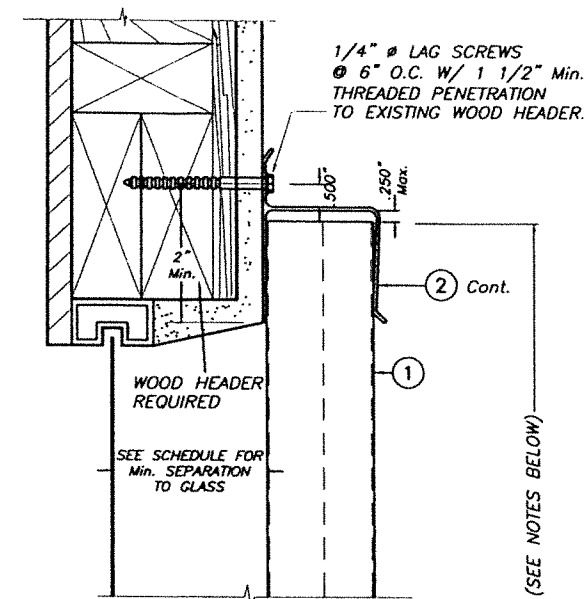
8/9/2023
DATE:

23-158

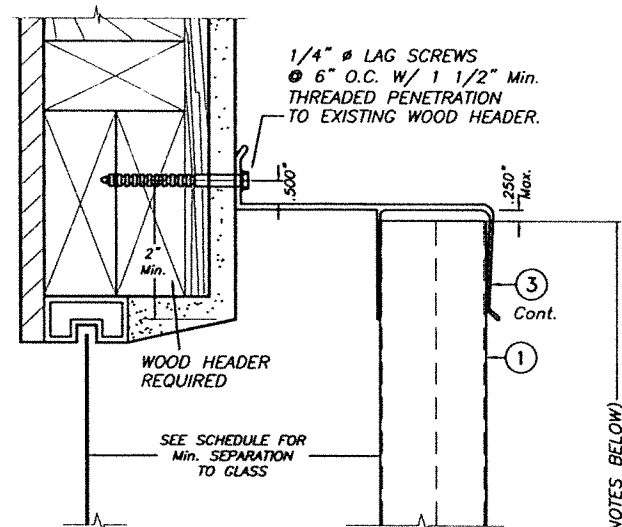
DRAWING No

SHEET 11 OF 15

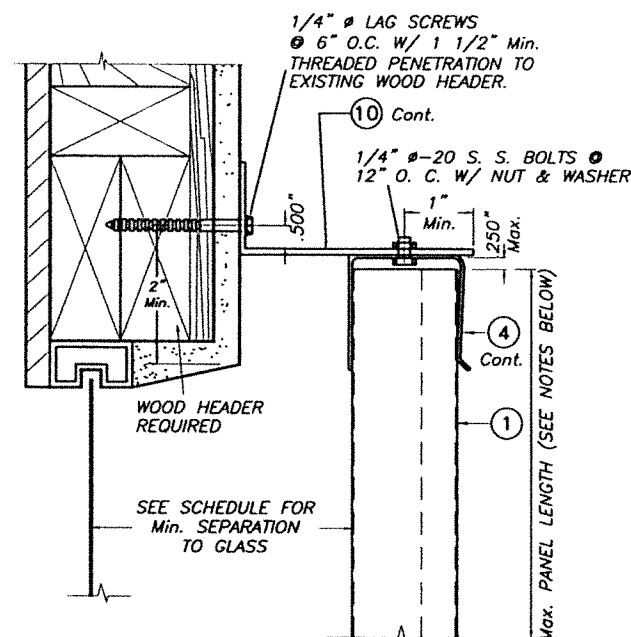




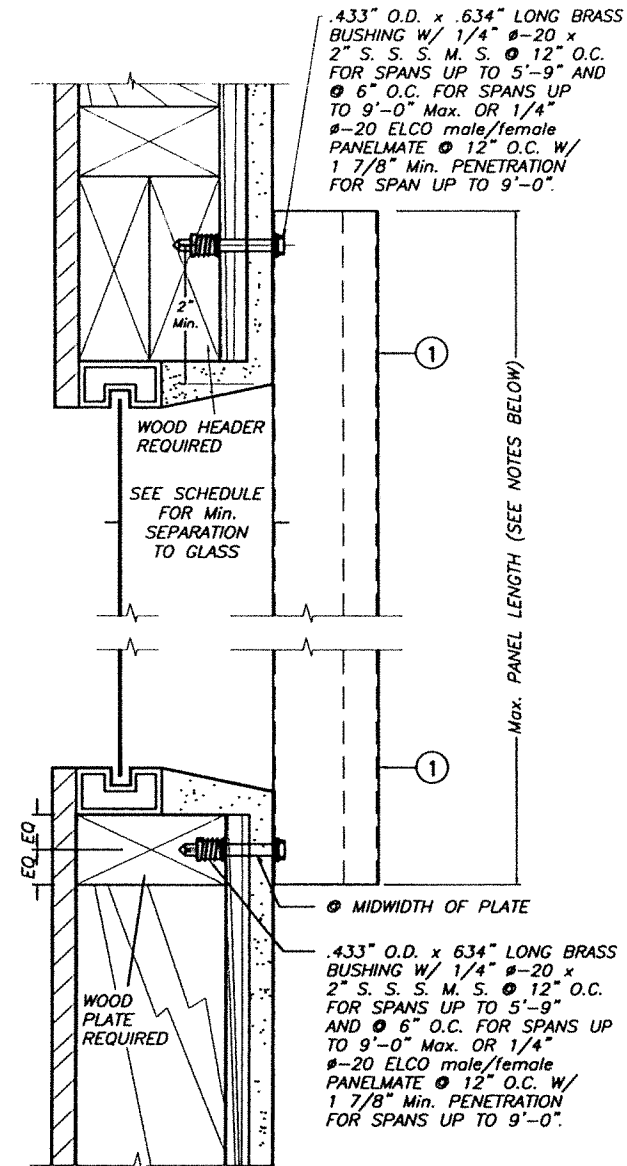
ALTERNATIVE 1



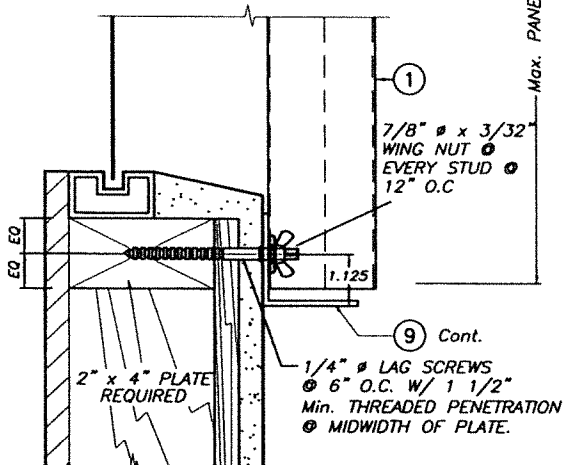
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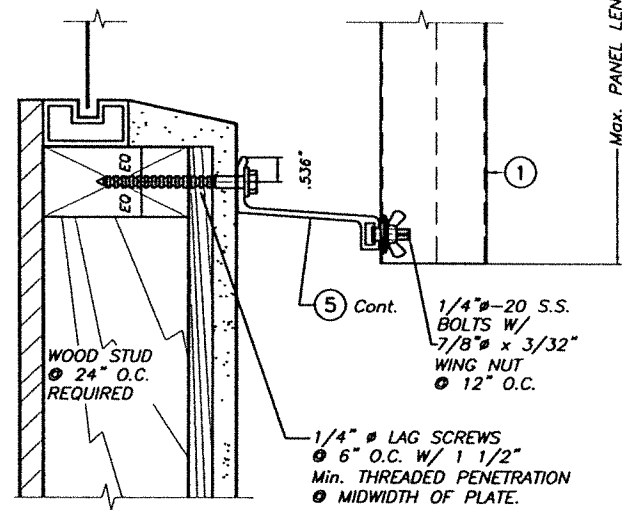
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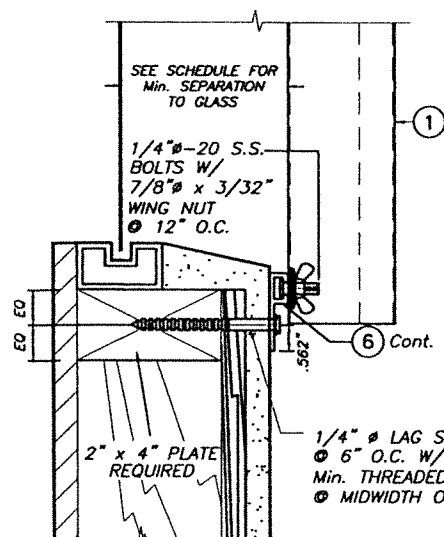
ALTERNATIVE 8



ALTERNATIVE 2



ALTERNATIVE 6



ALTERNATIVE 3

WALL MOUNTING INSTALLATIONS

SECTIONS A

SCALE : 1/4" = 1"

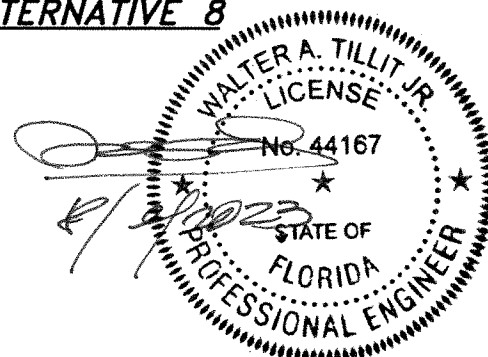
INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

NOTE FOR COMBINATION OF SECTIONS:

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

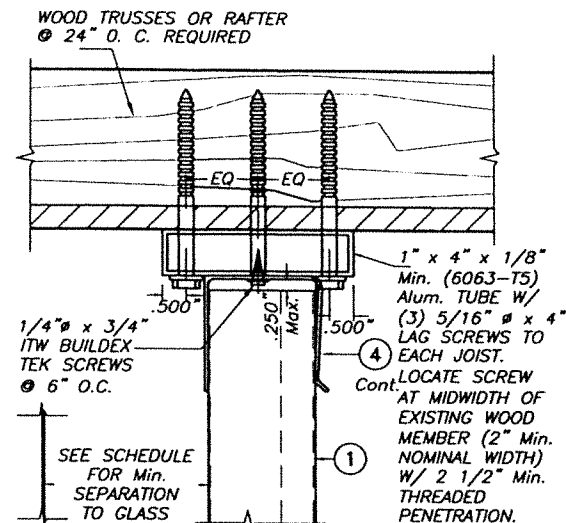
NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR A.S.D. DESIGN PRESSURE RATING UP TO +65.0, -72.0 psf AND PANEL'S LENGTHS UP TO 9'-0", EXCEPT AS NOTED.
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

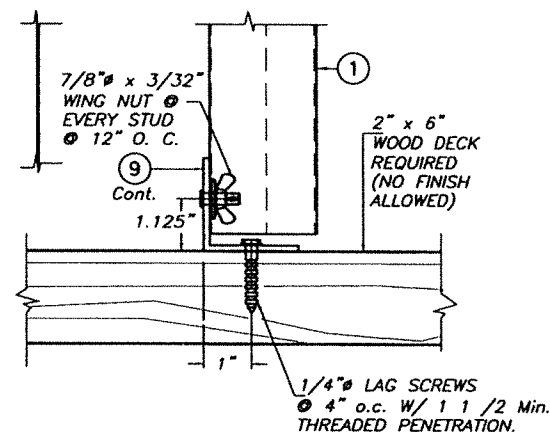


FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

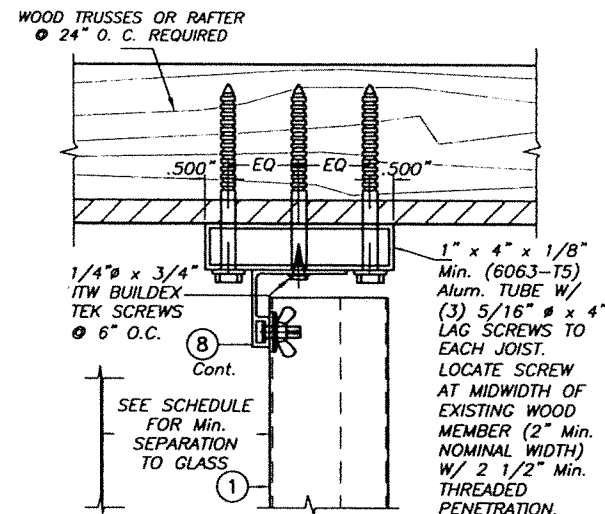
© 2023 TILTECO, INC.		0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)		Y.M.	
TILTECO INC.		EASTERN METAL SUPPLY, INC		DRAWN BY:	
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 - Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167		4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (561)533-6061 FAX: (561)588-4780		8/9/2023 DATE:	
REV. NO		DESCRIPTION		DATE	
1		OLD 20-186		8/9/2023	
2					
				23-158 DRAWING No	
				SHEET 12 OF 15	



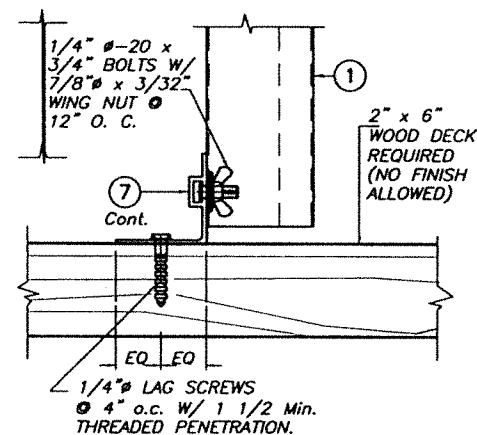
ALTERNATIVE 9A



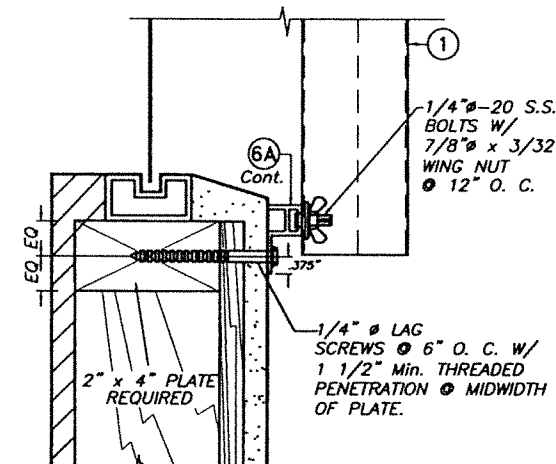
ALTERNATIVE 9



ALTERNATIVE 10

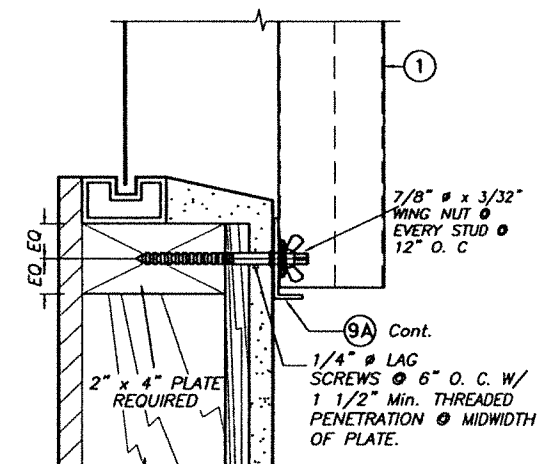


ALTERNATIVE 11



ALTERNATIVE 12 *

* VALID FOR Max. +63.5, -63.5 psf.



ALTERNATIVE 14

CEILING & FLOOR MOUNTING INSTALLATIONS

SCALE : 1/4" = 1"

WALL MOUNTING INSTALLATION

SCALE : 1/4" = 1"

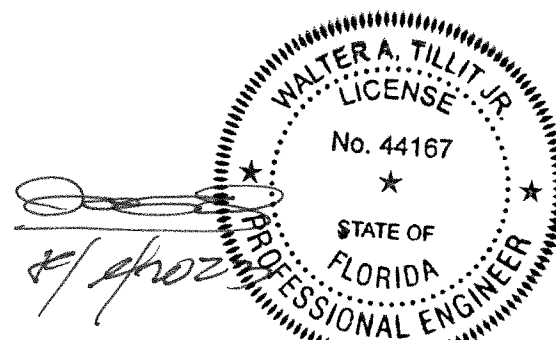
NOTE FOR COMBINATION OF SECTIONS:

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

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR A.S.D. DESIGN PRESSURE RATING UP TO +65.0, -72.0 psf AND PANEL'S LENGTHS UP TO 9'-0", EXCEPT AS NOTED.
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



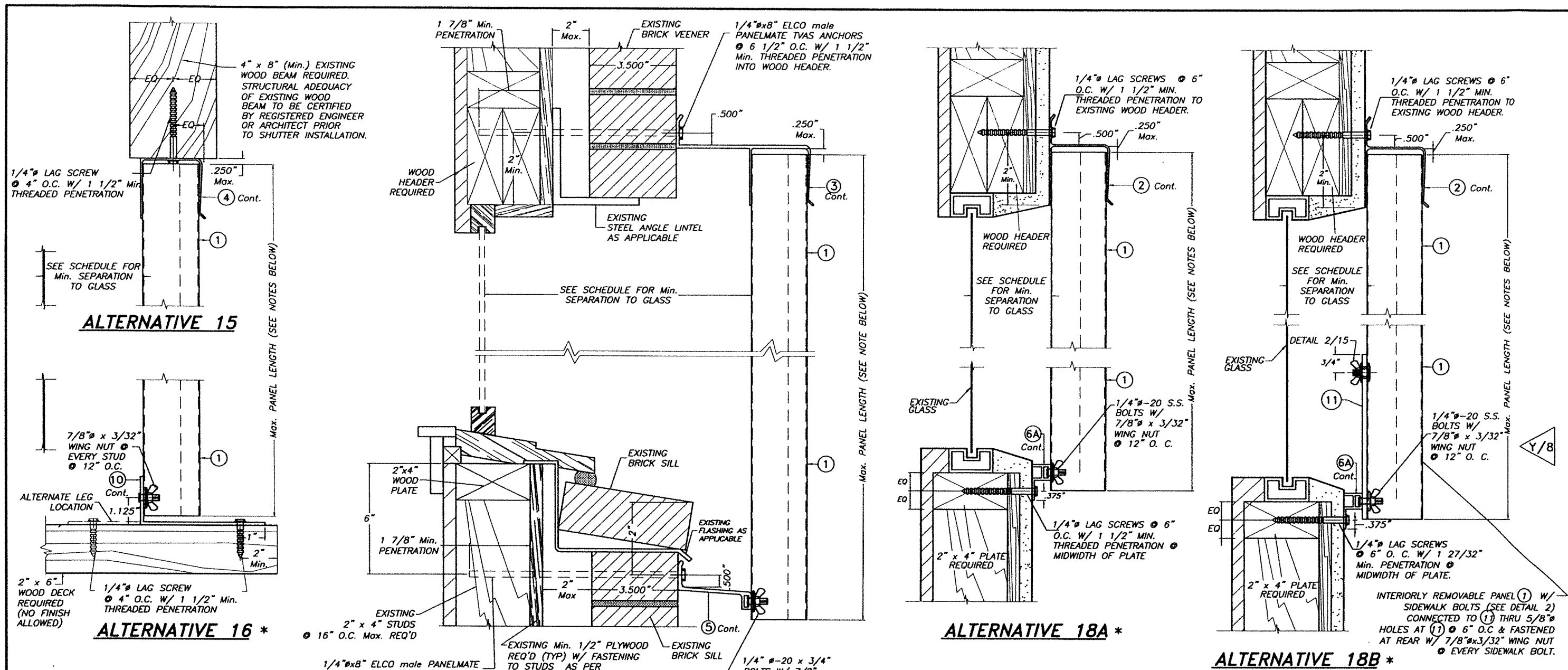
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TILTECO INC.

TILLIT TESTING & ENGINEERING COMPANY
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WALTER A. TILLIT Jr. P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)			Y.M. DRAWN BY:		
EASTERN METAL SUPPLY, INC			8/9/2023 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (561)533-6061 FAX: (561)588-4780			23-158 DRAWING No		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-186	8/9/2023	3		
2			4		



CEILING & FLOOR MOUNTING INSTALLATIONS

SCALE : 1/4" = 1"

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

NOTES:
1. INSTALLATIONS ARE ONLY VALID FOR A.S.D. DESIGN PRESSURE RATING UP TO +65.0, -72.0 psf AND PANEL'S LENGTHS UP TO 9'-0", EXCEPT AS NOTED.
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

ALTERNATIVE 17 *
* VALID FOR Max. +63.5, -63.5 psf.
A.S.D. DESIGN PRESSURE RATING.

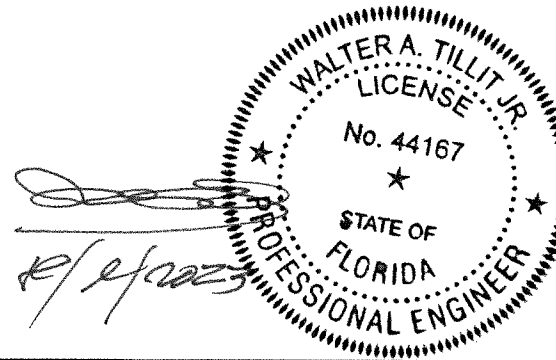
BUILD-OUT INSTALLATION
SCALE : 1/4" = 1"

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

WALL MOUNTING INSTALLATIONS

SECTIONS 18
SCALE : 1/4" = 1" * VALID FOR Max. +63.5, -63.5 psf.
A.S.D. DESIGN PRESSURE RATING.

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



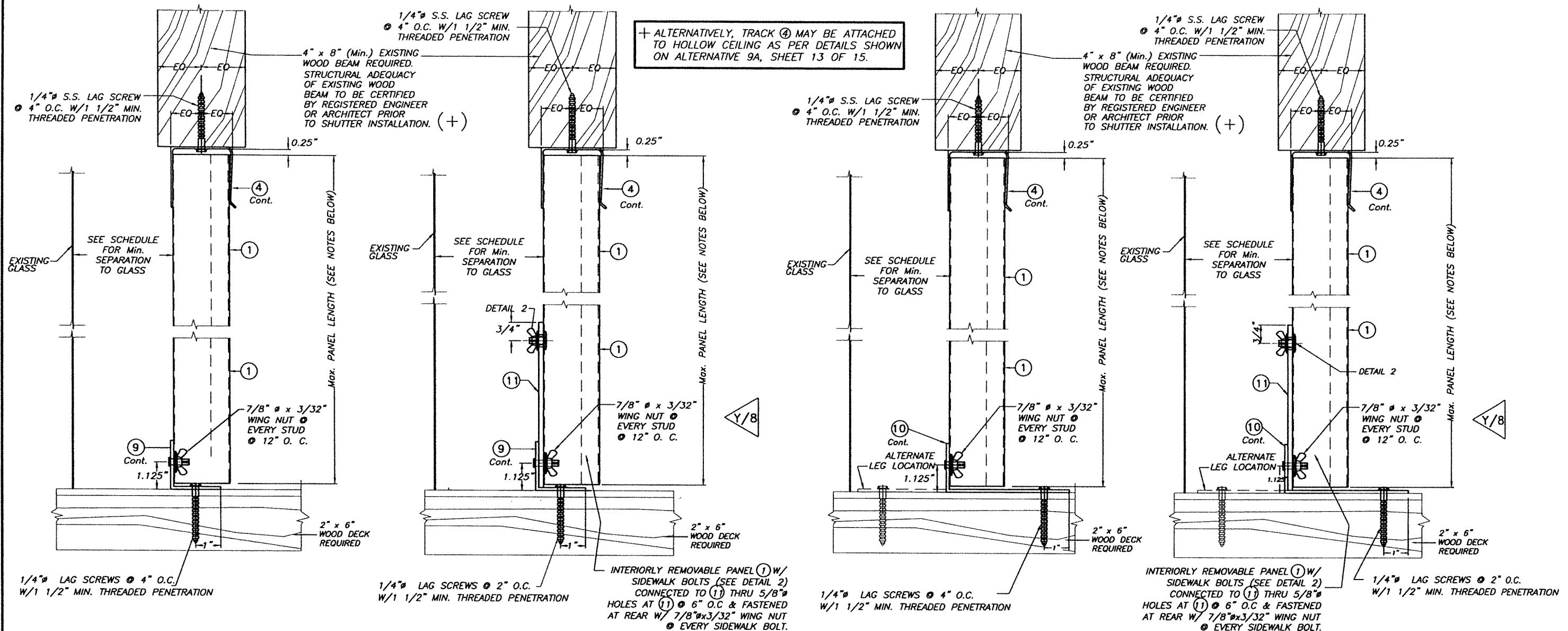
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0.050" BERTHA ALUMINUM STORM PANEL (2.25" DEEP)			Y.M. DRAWN BY:		
EASTERN METAL SUPPLY, INC			8/9/2023 DATE:		
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REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 20-186	8/9/2023	3		
2			4		
					SHEET 14 OF 15



ALTERNATIVE 19A

CEILING & FLOOR MOUNTING INSTALLATIONS

SECTIONS 19

SCALE: 1/4" = 1"

ALTERNATIVE 19B

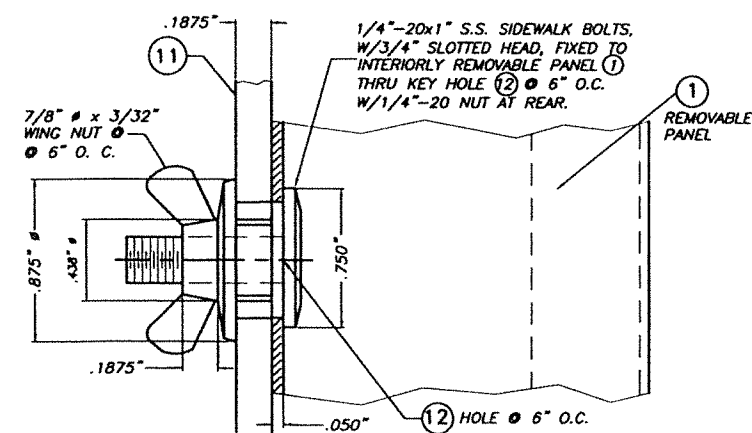
ALTERNATIVE 20A

ALTERNATIVE 20B

CEILING & FLOOR MOUNTING INSTALLATIONS

SECTIONS 20

SCALE: 1/4" = 1"



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

SCALE: 1" = 1"

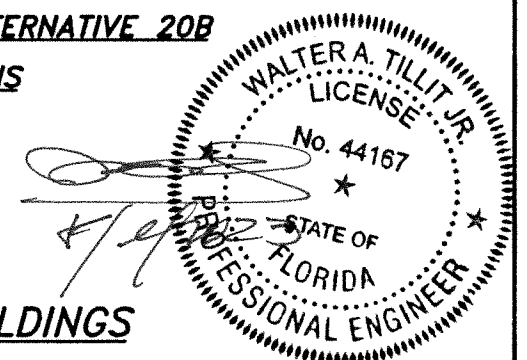
NOTE FOR COMBINATION OF SECTIONS:

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

NOTES:

- INSTALLATIONS ARE ONLY VALID FOR A.S.D. DESIGN PRESSURE RATING UP TO +65.0, -65.0 psf AND PANEL'S LENGTHS UP TO 9'-0".
- FOR NEW 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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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 20-186	8/9/2023	3		
2			4		

SHEET 15 OF 15