

GENERAL NOTES:

(VALID FOR 20 GAGE GALVANIZED STEEL STORM PANELS)

1. STORM PANEL SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2010 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 $K_d=0.85$, USING ASCE 7-10 FOR INSTALLATIONS UNDER 2010 FBC AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 7 THRU 12, 14, 15, 16, 19 & 20.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO TO COMPARE THESE W/ MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 7 THRU 12, 14, 15, 16, 19 & 20.

IN ORDER TO VERIFY THAT 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. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2005.

STORM PANEL'S ADEQUACY FOR IMPACT AND WIND RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER HURRICANE ENGINEERING & TESTING INC. REPORTS 96-569, 96-570 & 96-T30 AND FENESTRATION TESTING LAB. INC., REPORTS #2032 & #2126, AS PROTOCOLS TAS-201, TAS-202 AND TAS-203.

AS WELL AS AMERICAN TEST LAB OF SOUTH FLORIDA REPORT #0219.01-09, AS PER TAS 201-94, TAS 202-94 AND TAS 203-94 STANDARDS.

2. ALL ALUMINUM EXTRUSIONS TO BE 6063-T6 ALLOY AND TEMPER. (UNLESS OTHERWISE NOTED). SEE SHEET 2.

3. ALL ALUMINUM SHEET METAL USED AT CLOSURES SHALL HAVE 3105-H14 ALLOY.

4. ALL STEEL SHEET METAL PANELS SHALL HAVE STRUCTURAL QUALITY STEEL, ASTM A-653 GRADE 50 MINIMUM, G-60 GALVANIZED STEEL DESIGNATION W/FY= 58.5 ksi (AFTER ROLLED).

5. 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.

6. BOLTS TO BE ASTM A-307 GALVANIZED STEEL, OR AISI 304 SERIES STAINLESS STEEL, WITH 36 ksi MINIMUM YIELD STRENGTH.

7. ANCHORS TO WALL SHALL BE AS FOLLOWS:

(A) TO EXISTING POURED CONCRETE:

- 1/4" ϕ TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX, INC. (Min. $f'_c=3192$ p.s.i.)
- 1/4" ϕ x 7/8" CALK-IN ANCHORS, AS MANUFACTURED BY POWERS FASTENERS INC. (MIN. $f'_c=3000$ p.s.i.)
- 1/4" ϕ x 3/4" SOLID-SET ANCHORS, AS DISTRIBUTED BY ALL POINT SCREW, BOLT & SPECIALTY CO. (Min. $f'_c=3000$ p.s.i.)
- #14-10 PANELMATE FEMALE ID & PANELMATE PLUS ANCHORS, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS. (MIN. $f'_c=3350$ p.s.i.)
- 1/4" ϕ CF TAP-GRIP ANCHORS, AS MANUFACTURED BY TRU-FAST CORPORATION ($f'_c=3600$ p.s.i.)

A.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO POURED CONCRETE SHALL BE 1 3/4"; 2" FOR PANELMATE FEMALE ID AND PANEMALTE PLUS AND 1 1/4" FOR CF TAP-GRIP ANCHORS.

A.2) CALK-IN & SOLID-SET ANCHORS SHALL BE EMBEDDED 7/8" 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, ND 1" MINIMUM FOR WALLS WITH NO STUCCO, AND MAY BE HEADED SCREWS OR ALL THREADED SCREWS W/O HEAD, BUT WITH WING NUTS.

A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, PAVERS, STUCCO OR WOOD BOARDS 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 MENTIONED IN A.1) AND IN A.2).

(B) TO EXISTING CONCRETE BLOCK WALL ASTM C-90:

- 1/4" ϕ TAPCON ANCHORS AS MANUFACTURED BY I. T. W. BUILDDEX, INC.
- 1/4" ϕ x 7/8" CALK-IN ANCHORS, AS MANUFACTURED BY POWERS FASTENERS INC. (MIN. $f'_c=1500$ p.s.i.)
- 1/4" ϕ x 3/4" SOLID-SET ANCHORS, AS DISTRIBUTED BY ALL POINT SCREW, BOLT & SPECIALTY CO. (MIN. $f'_c=1800$ p.s.i.)
- #14-10 PANELMATE FEMALE ID AND PANELMATE PLUS ANCHORS, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS (MIN. $f'_c=2071$ p.s.i.)
- 1/4" ϕ CF TAP-GRIP ANCHORS, AS MANUFACTURED BY TRU-FAST CORPORATION

B.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS, ELCO PANELMATES AND CF TAP-GRIP ANCHOR, INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".

B.2) CALK-IN & SOLID-SET ANCHORS SHALL BE EMBEDDED 7/8" 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) IN CASE THAT PRECAST STONE, OR PRECAST CONCRETE PANELS, STUCCO OR WOOD BOARDS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS MENTIONED IN B.1) AND IN B.2).

(C) TO EXISTING WOOD (MIN. SPECIFIC GRAVITY, $G = 0.55$ MIN.):

- 1/4" ϕ TAPCON ANCHORS, AS MANUFACTURED BY I.T.W. BUILDDEX, INC.
- #14-10 PANELMATE FEMALE ID AND PANELMATE PLUS ANCHORS, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.
- 1/4" ϕ LAG SCREWS PER N.D.S.
- 7/16" ϕ x 5/8" WOOD BUSHING, AS DISTRIBUTED BY ALL POINT SCREW, BOLT & SPECIALTY CO.

C.1) MINIMUM THREADED PENETRATION INTO WOOD OF TAPCON ANCHORS SHALL BE 1 1/2" AND 2" FOR ELCO PANELMATE PLUS AND PANELMALE FEMALE ID.

C.2) MINIMUM THREADED PENETRATION OF LAG SCREW, INTO THE WOOD FRAME UNIT SHALL BE 1 1/2". NO THREADED PENETRATION INTO STUCCO SHALL BE CONSIDERED AS PART OF THE REQUIRED THREADED PENETRATION.

C.3) MINIMUM EDGE DISTANCE OF LAG SCREWS, INTO WOOD SHALL BE AS INDICATED IN THIS DRAWING

C.4) MINIMUM PENETRATION OF WOOD BUSHING SHALL BE 5/8". 1/4" ϕ -20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.

C.5) IN CASE THAT PRECAST STONE, OR PRECAST CONCRETE PANELS, STUCCO OR WOOD BOARDS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS MENTIONED IN C.1), C.2) & C.4)

(D) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

8. PANELS MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN ON SECTION 3 THROUGH 10 (SHEETS 4 THROUGH 6) EXCEPT THAT HEADERS ② & ③ SHALL NOT BE USED.

9. 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.

10. EACH REGULAR STORM PANEL WITH LENGTHS OVER 8'-8" THROUGH 12'-4", AS PER SECTIONS 6, 8, 9 & 10 AND ALTERNATIVES 8W, 9W & 10W ON SHEETS 5, 6 & 12 RESPECTIVELY; SHALL HAVE A LEGIBLE AND READILY VISIBLE MARKING INSTRUCTING OWNER OR TENANT TO SECURE PANELS WITH APPLICABLE REINFORCEMENT DURING PERIODS OF HURRICANE WARNING.

11. THE INSTALLATION CONTRACTOR IS TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.

12. 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.

13. (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.

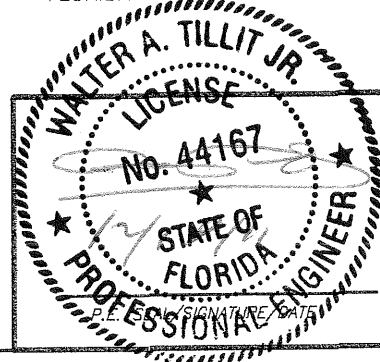
(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P.E.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(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.

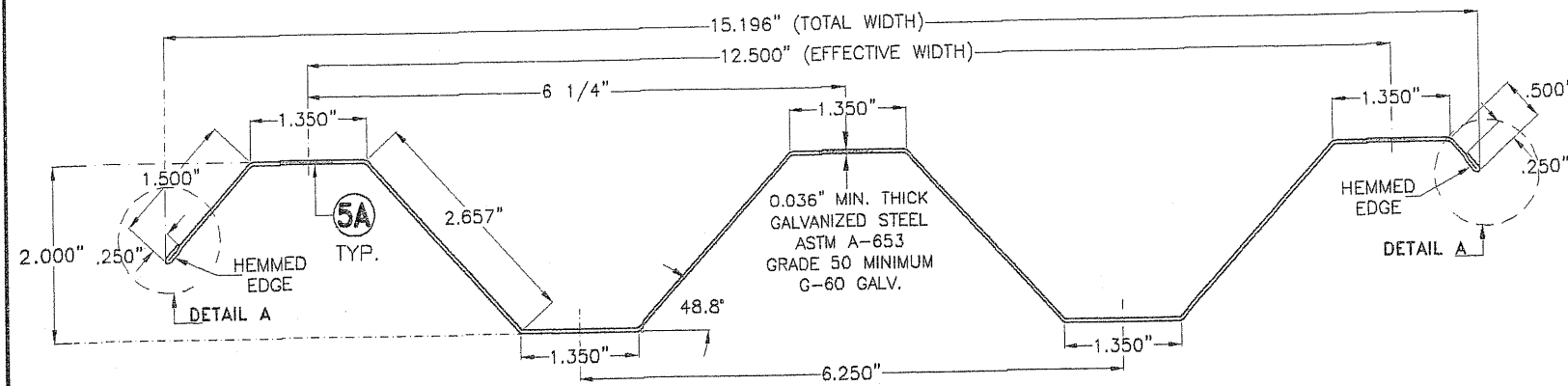
14. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT STORM PANEL SHUTTER IN ACCORDANCE WITH SECTION 1715.8.3 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1715.8.2 OF THE FLORIDA BUILDING CODE.



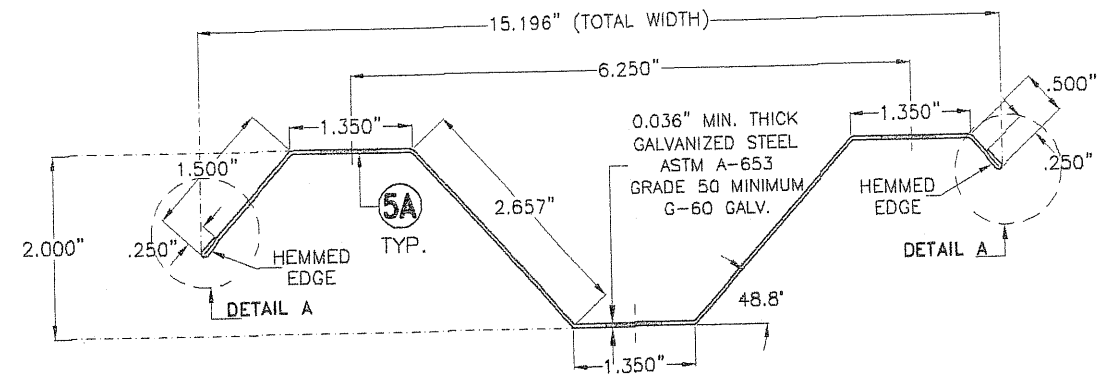
© 2011 TILTECO, INC.		FLORIDA BUILDING CODE (High Velocity Hurricane Zone)			
TILTECO INC. TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33168 Phone : (305) 871-1530 . Fax : (305) 871-1531 EB-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167		20 GAGE GALVANIZED STEEL STORM PANEL			
		GLOBAL PROTECTION PRODUCTS, LLC. 4800 S.W. 51 STREET DAVE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797			
		M.C.V./R.E./A.G. DRAWN BY:			
		12/05/11 DATE:			
		11-213 DRAWING No:			
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 08-237	12/05/11	3	-	-
2	-	-	4	-	-
SHEET 1 OF 26					

COMPONENTS FOR REGULAR & LIFE SAFETY STORM PANELS

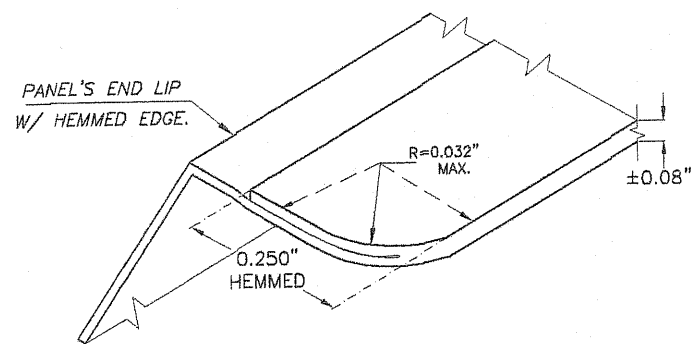
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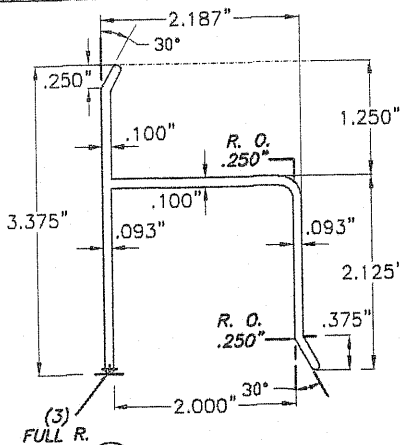
① STORM PANEL



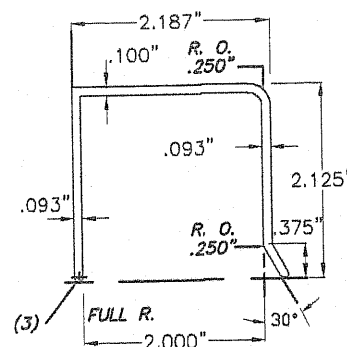
①A END STORM PANEL



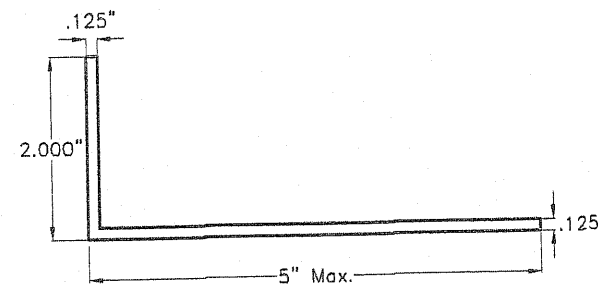
ISOMETRIC VIEW DETAIL A
ROUNDED CORNER @ ENDS OF PANEL'S
END LIP W/ HEMMED EDGE.
(N.T.S.)



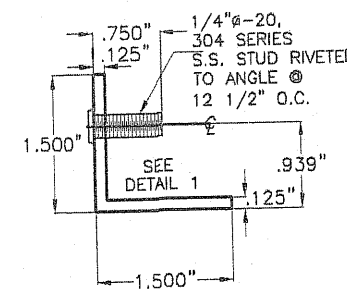
② "h" HEADER



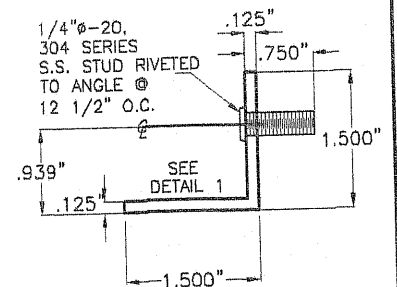
③ "U" HEADER



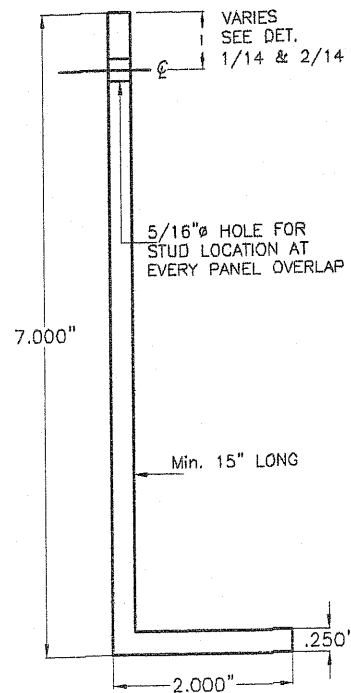
④ ANGLE



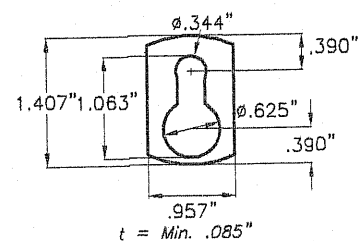
④A ANGLE WITH STUD



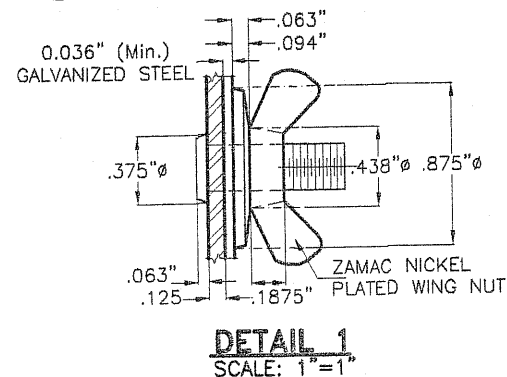
④B ANGLE WITH
REVERSE STUD



⑧ 2"x7"x1/4"
ALUMINUM ANGLE

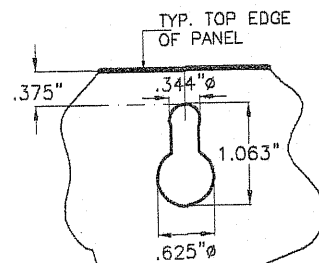


⑤ KEY HOLE WASHER

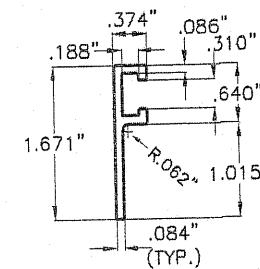


DETAIL 1
SCALE: 1"=1"

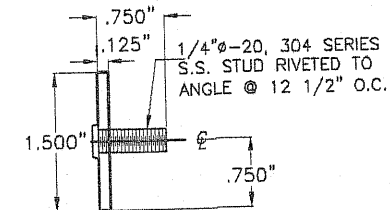
ALTERNATIVELY, USE WING NUT W/O
MONOLITHIC WASHER W/ ADDITIONAL
* 7/8"x3/32" WASHER (STAINLESS
STEEL OR NICKEL PLATED STEEL).



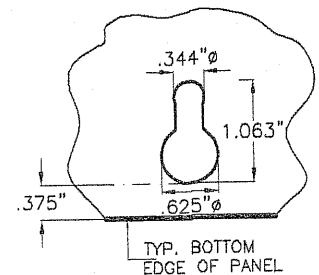
⑥ "F" TRACK ANGLE



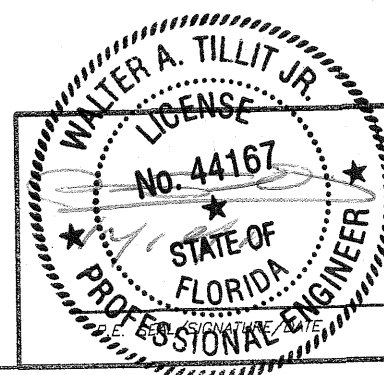
⑥A 3/8" "F" TRACK



⑦ FLAT PLATED
WITH STUD



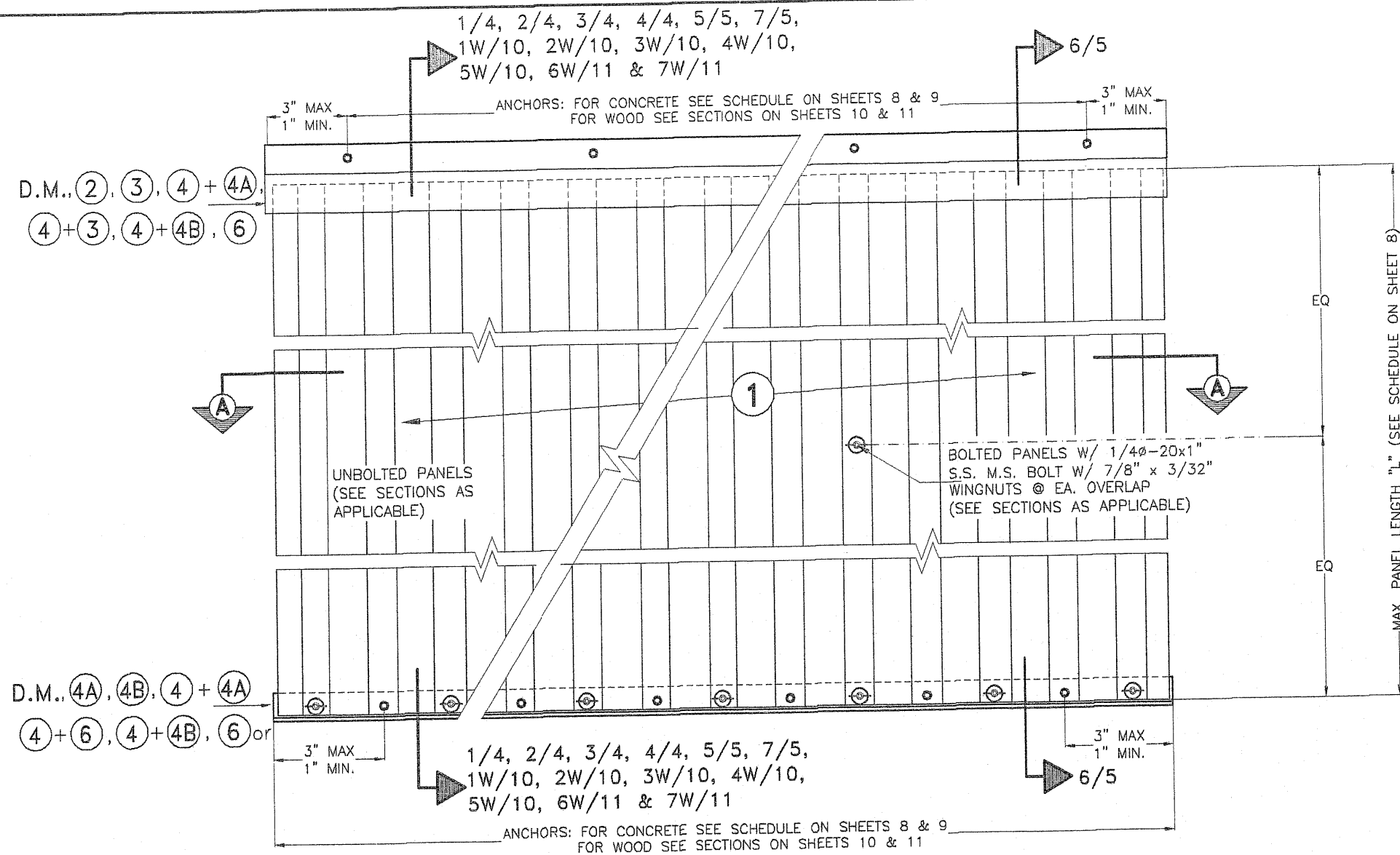
⑤A KEY HOLE
AT PANEL



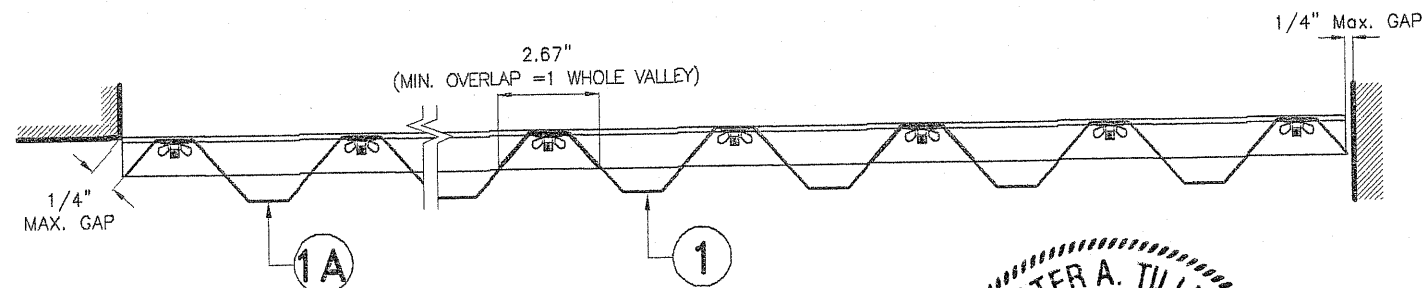
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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33166
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EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

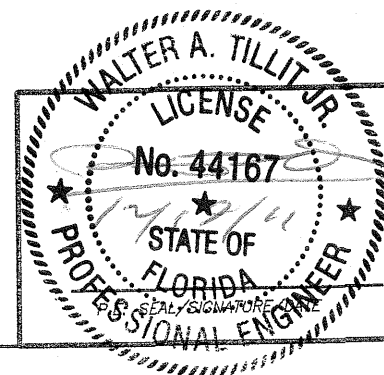
20 GAGE GALVANIZED STEEL STORM PANEL						M.C.V./R.E./A.G.
GLOBAL PROTECTION PRODUCTS, LLC.						DRAWN BY:
4800 S.W. 51 STREET DAVIE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797						12/05/11 DATE:
11-213 DRAWING No:						SHEET 2 OF 26
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
1	OLD 08-237	12/05/11	3			
2			4			



REGULAR STORM PANELS ① & ①A ELEVATION N.T.S.



SECTION A-A N.T.S.



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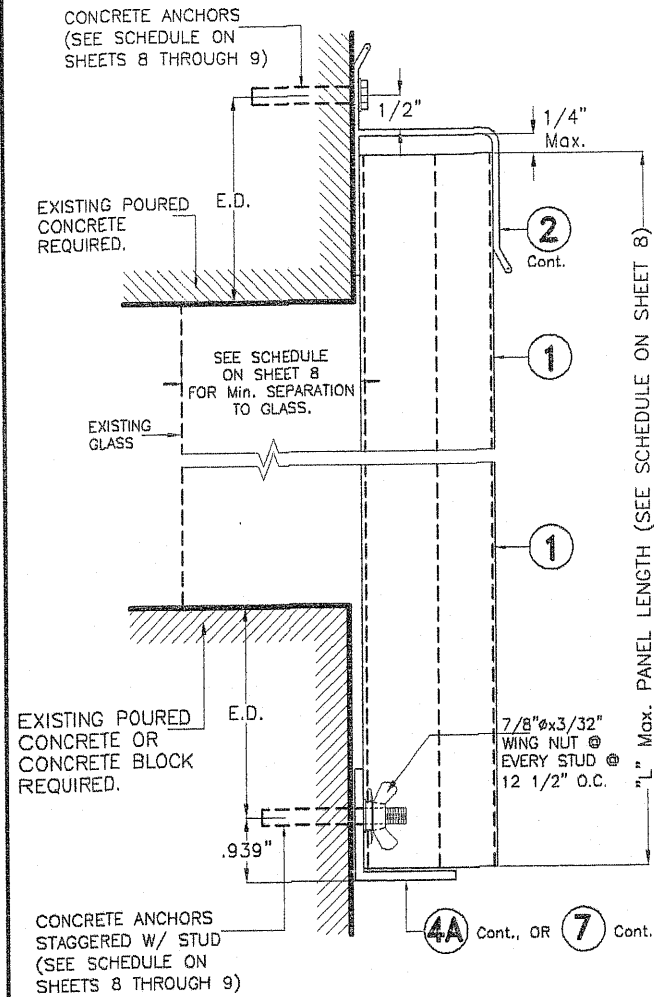
TILTECO INC.

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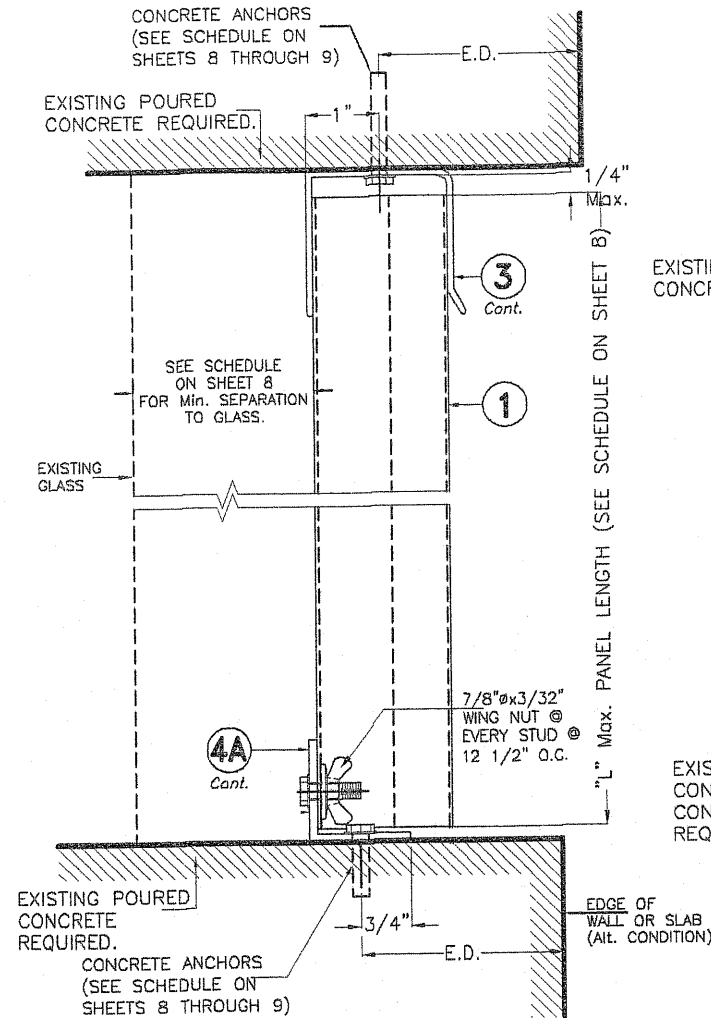
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 3 OF 26
1	OLD 08-237	12/05/11	3	-	-	
2	-	-	4	-	-	

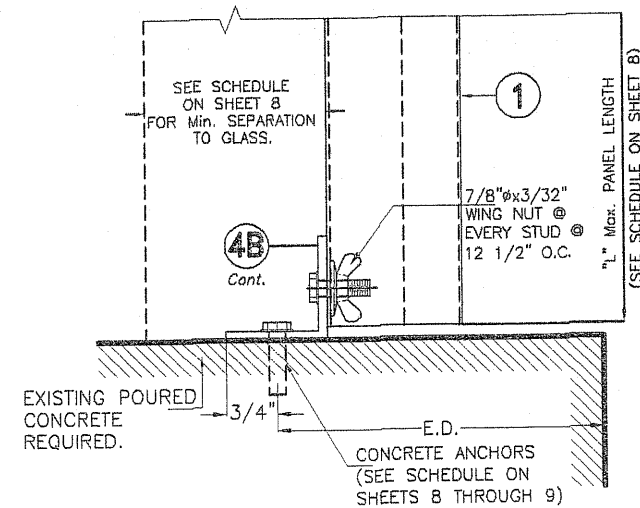
INSTALLATION DETAILS FOR REGULAR PANELS ① & ①A INTO EXISTING POURED CONCRETE OR CONCRETE BLOCK STRUCTURES



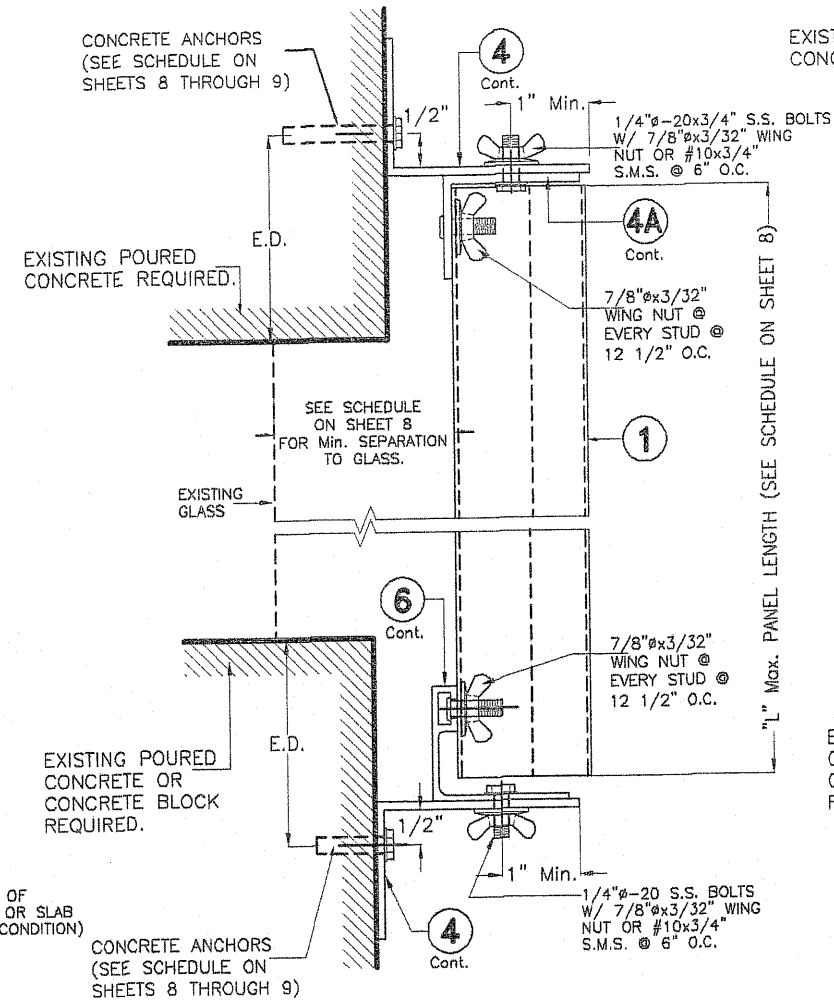
**WALL MOUNTING
SECTION 1**
SCALE 3/8=1"



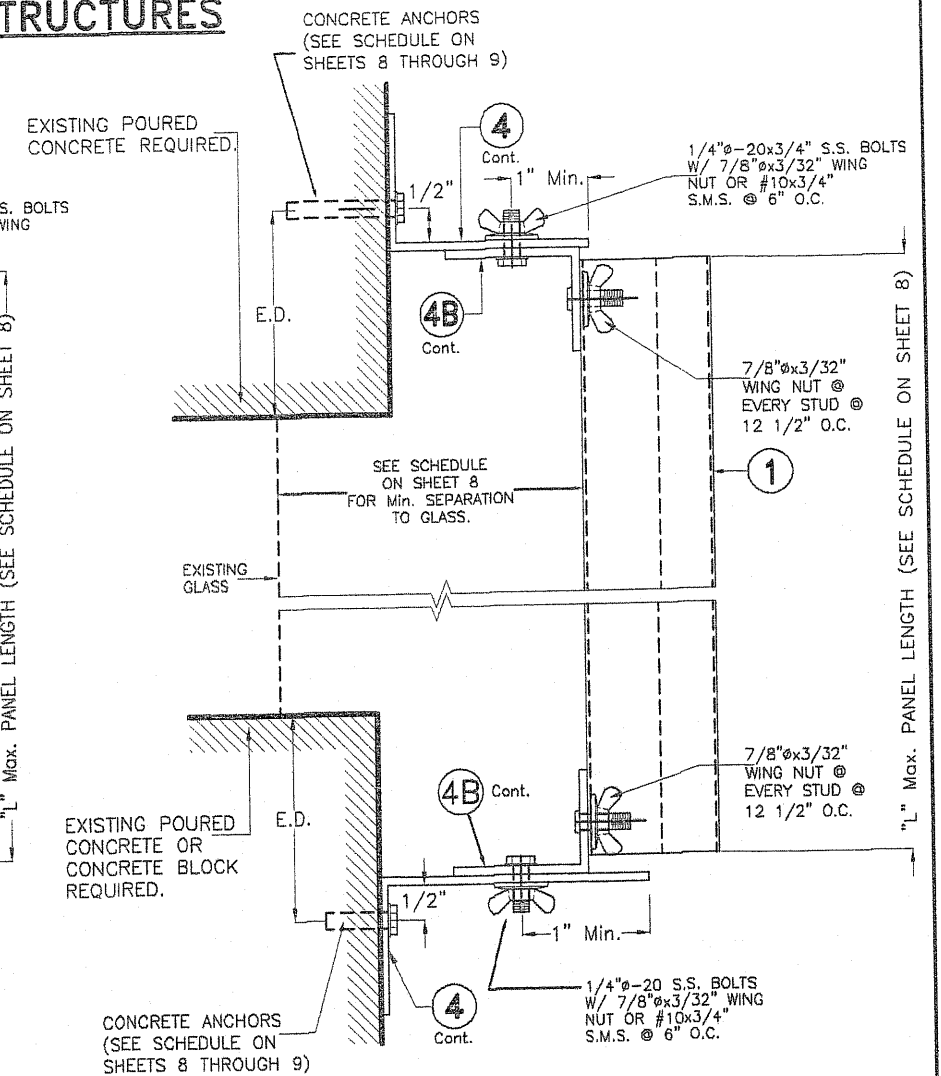
**CEILING AND FLOOR MOUNTING
SECTION 2**
SCALE 3/8=1"



**CEILING AND FLOOR MOUNTING
SECTION 2A**
SCALE 3/8=1"



**BUILD OUT MOUNTING
SECTION 3**
SCALE 3/8=1"





**ALTERNATE BUILD OUT MOUNTING
SECTION 4**
SCALE 3/8=1"

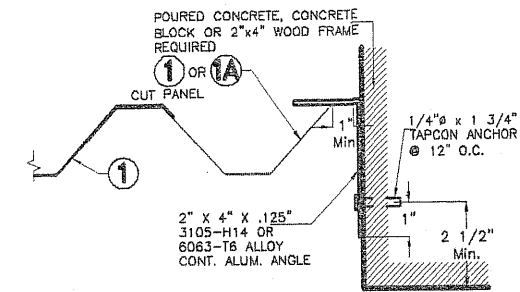
E.D. = EDGE DISTANCE
(SEE SCHEDULE ON SHEETS 8 & 9)

NOTE FOR COMBINATION OF SECTIONS:
TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

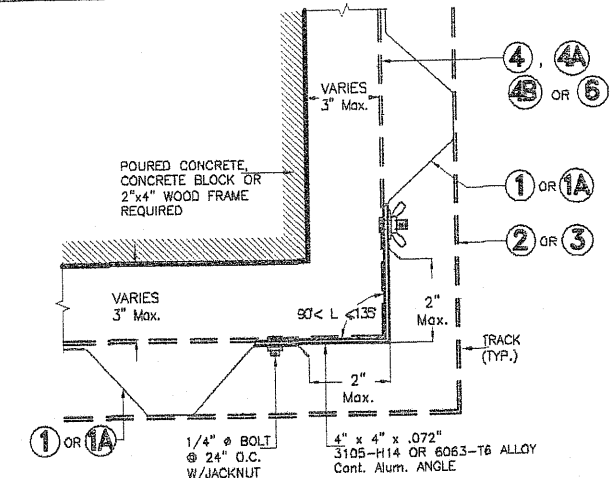
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

<div> 14/12/11</div> <div>P.E. SEAL/SIGNATURE/DATE</div>	<div>©2011 TILTECO, INC.</div> <div></div> <div>TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305) 871-1530 • Fax : (305) 871-1531 EB-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167</div>	20 GAGE GALVANIZED STEEL STORM PANEL						M.C.V./R.E./A.G. DRAWN BY:
		GLOBAL PROTECTION PRODUCTS, LLC. 4800 S.W. 51 STREET DAVIE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797						12/05/11 DATE:
								11-213 DRAWING No:
								SHEET 4 OF 26

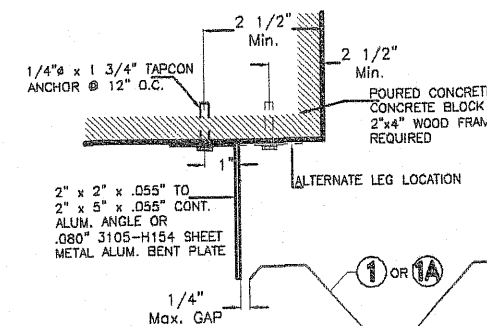
END CLOSURES DETAILS FOR INSTALLATION IN POURED CONCRETE,
CONCRETE BLOCK OR WOOD
VALID FOR REGULAR, LIFE SAFETY AND E-Z HANG STORM PANEL SYSTEM



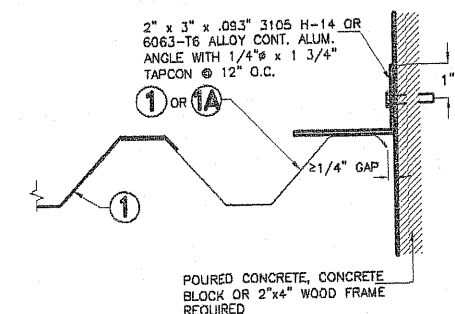
CASE A (PLAN)
SCALE 3/16"=1"



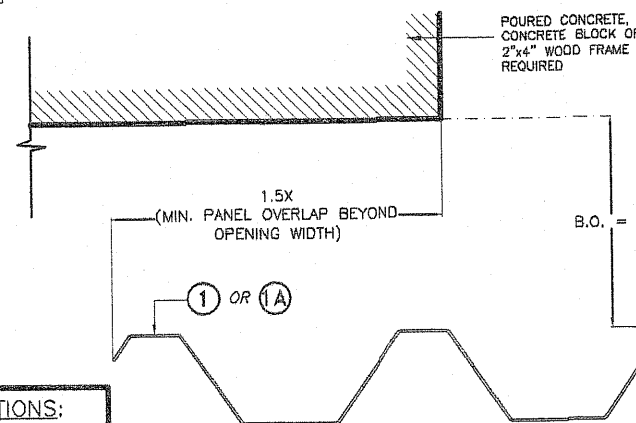
CASE B (PLAN)
SCALE 3/16="



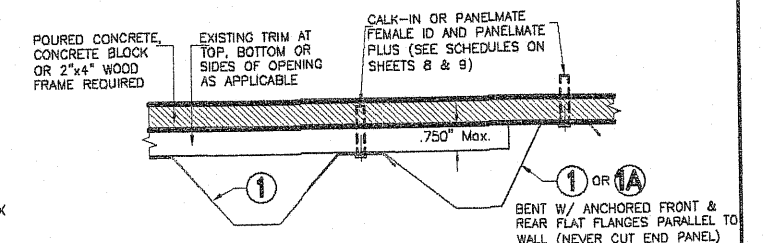
CASE C (PLAN)
SCALE 3/16"=1"



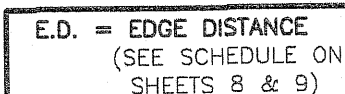
CASE D (PLAN)
SCALE 3/16"=1"



CASE E (PLAN)
SCALE 3/16"=1"



CASE F (PLAN)
SCALE 3/16"=1"



NOTE FOR COMBINATION OF SECTIONS:

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COMBINED IN ANY WAY TO SUIT ANY
INSTALLATION.

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TILTECO INC.
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20 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.

4800 S.W. 51 STREET
DAVIE, FL. 33314
(954)689-7545, FAX: (954)689-8797

PHONE: (954)689-7545, FAX: (954)689-8797

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 08-237	12/05/11	3	-	-
2	-	-	4	-	-

M.C.V./R.E./A.G.
DRAWN BY:

12/05/11
DATE:

1.1-213

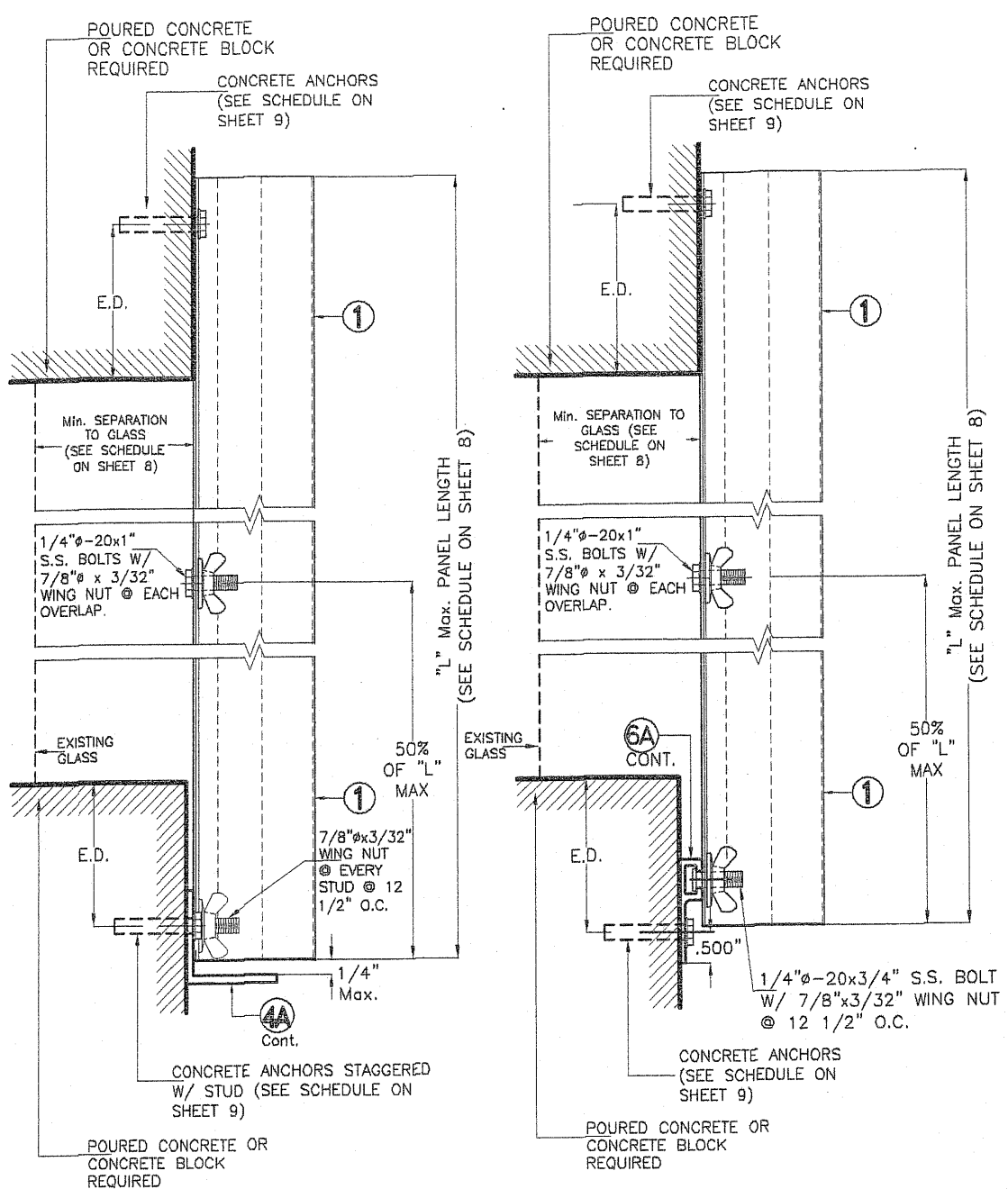
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SHEET 5 OF 26

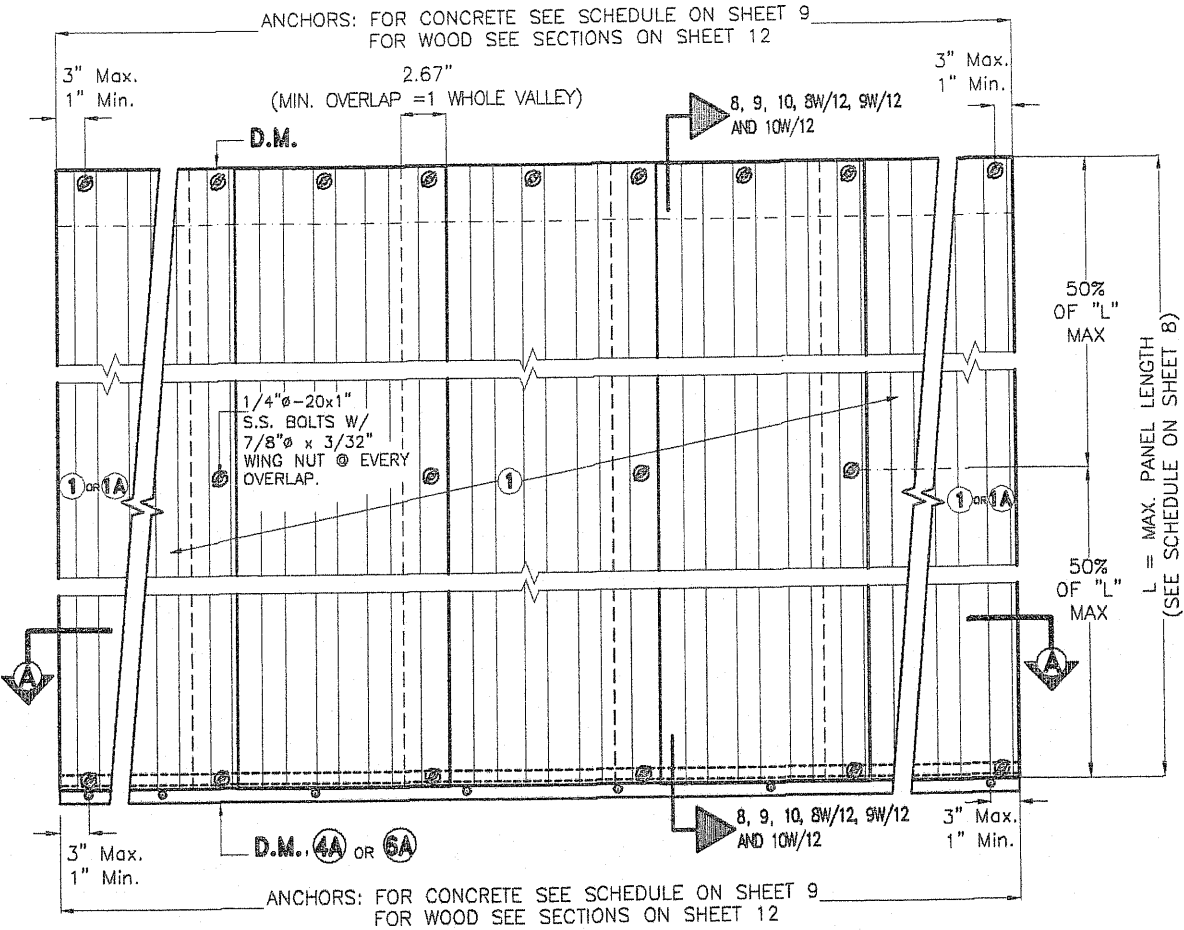
INSTALLATION DETAILS FOR REGULAR PANELS 1 & 1A
INTO EXISTING POURED CONCRETE OR CONCRETE BLOCK STRUCTURES



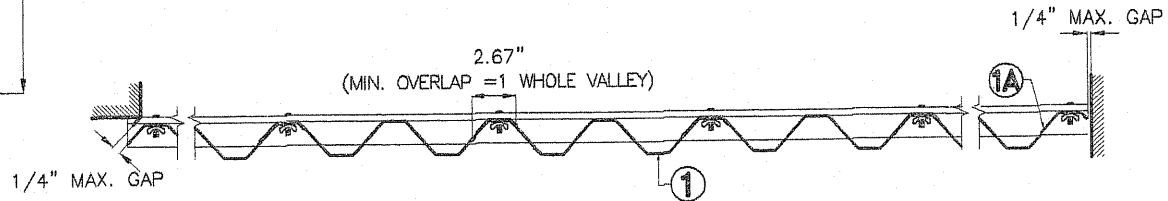
DIRECT AND WALL MOUNTING
INSTALLATION
SECTION 8
SCALE 3/8=1"

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

DIRECT MOUNTING
INSTALLATION
SECTION 10
SCALE 3/8=1"



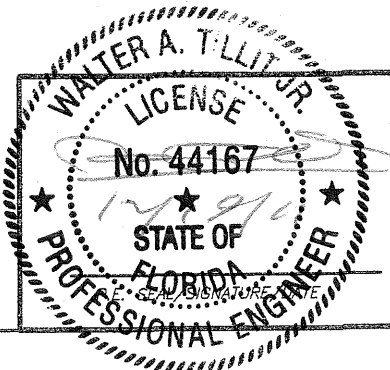
REGULAR STORM PANELS 1 & 1A ELEVATION
SCALE 3/32=1"



SECTION A-A (Typ.)
SCALE 3/32=1"

E.D. = EDGE DISTANCE
(SEE SCHEDULE ON SHEET 9)

NOTE FOR COMBINATION OF SECTIONS:
TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

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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
EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

20 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.

4800 S.W. 51 STREET
DAVE, FL. 33314
PHONE: (954) 689-7545, FAX: (954) 689-8797

M.C.V./R.E./A.G.
DRAWN BY:
12/05/11
DATE:
11-213
DRAWING No:
SHEET 6 OF 26

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD OB-237	12/05/11	3	-	-
2	-	-	4	-	-

WALL AND FLOOR MOUNTING INSTALLATION FOR SPLIT PANELS

SEE SECTIONS 1, 3 & 4 ON SHEET 4

CONCRETE ANCHORS (SEE SCHEDULE ON SHEET 8 & 9)

POURED CONCRETE REQUIRED

E.D.

1/4" Max.

EDGE OF WALL IF APPLICABLE

4 1/2" MIN. E.D.

(3) 1/4" THRU BOLTS W/ WASHER & NUT.

2"x2"x1/4"x0'-6" Alum. ANGLE (6063-T6 ALLOY) (Typ. TOP & BOTTOM)

MULLION

(2) 5/16" TAPCON XL, I.T.W. BUILDDEX W/ 2 1/4" MIN. PENETRATION INTO CONCRETE OR GROUT FILLED BLOCK

ELEVATION SCALE: 1/4" = 1"

DETAIL 1

SECTION X-X SCALE: 1/4" = 1"

2"x2"x1/4"x0'-6" Alum. ANGLE (6063-T6 ALLOY) (Typ. TOP & BOTTOM)

MULLION

(3) 1/4" THRU BOLTS W/ WASHER & NUT.

(2) 5/16" TAPCON XL, I.T.W. BUILDDEX W/ 2 1/4" MIN. PENETRATION INTO CONCRETE OR GROUT FILLED BLOCK

STORM PANEL W/5'-0" Max. PANEL LENGTH & DESIGN PRESSURE RATING OF +55.0 p.s.f., -72.0 p.s.f.

CONCRETE ANCHORS (SEE SCHEDULE ON SHEET 8 & 9)

3" Max. 1" Min.

3" Max. 1" Min.

A/2

A/2

SEE SCHEDULE ON SHEET 8 FOR Min. SEPARATION TO EXISTING GLASS

STORM PANEL W/5'-0" Max. PANEL LENGTH & DESIGN PRESSURE RATING OF +55.0 p.s.f., -72.0 p.s.f.

MULLION - 6063-T6 ALLOY (SEE SCHEDULE ON THIS SHEET)

1/4" Max.

(3) W/ #14x3/4" S.S. S.M.S. @ 6" O.C.

STORM PANEL W/8'-0" Max. PANEL LENGTH & DESIGN PRESSURE RATING OF +55.0 p.s.f., -72.0 p.s.f.

SEE SECTIONS 2 & 2A ON SHEET 4

EDGE OF WALL OR SLAB (ALT. CONDITION)

CONCRETE ANCHORS (SEE SCHEDULE ON SHEETS 8 & 9)

STORM PANEL W/8'-8" Max. PANEL LENGTH & DESIGN PRESSURE RATING OF +55.0 p.s.f., -72.0 p.s.f.

SEE SECTIONS 1, 3, & 4 ON SHEET 4

MULLION SCHEDULE

Max. MULLION SPAN (Ft.) *	REQUIRED Min. TUBE MULLION **
≤ 4'-6"	2" x 3" x 1/8"
> 4'-6" TO 5'-8"	2" x 4" x 1/8"
> 5'-8" TO 6'-10"	2" x 5" x 1/8" 2" x 4" x 1/4"
> 6'-10" TO 8'-0"	2" x 6" x 1/8"

* SPANS VALID FOR A.S.D. DESIGN PRESSURE RATING UP TO +55.0 p.s.f., -72.0 p.s.f.
** MINIMUM TUBE'S DIMENSION SHALL BE ORIENTED PARALLEL TO STORM PANEL'S LENGTH.

SECTION 1 SCALE 3/8"=1"

NOTE: MULLION CAN ALSO BE INSTALLED W/O STORM PANELS ON TOP OR BOTTOM SO THAT IT IS LOCATED AT TOP OR BOTTOM OF OPENING. (ONE PANEL OPENING W/ TUBE TOP & BOTTOM)

ELEVATION SCALE 1/4"=1"

DETAIL 2

SECTION Y-Y SCALE 1/4"=1"

(2) 5/16" TAPCON XL, I.T.W. BUILDDEX W/ 2 1/4" MIN. PENETRATION INTO CONCRETE OR GROUT FILLED BLOCK

(3) 1/4" THRU BOLTS W/ WASHER & NUT.

MULLION

2"x2"x1/4"x0'-6" Alum. ANGLE (6063-T6 ALLOY) (Typ. TOP & BOTTOM)

4 1/2" Min E.D.

A/2

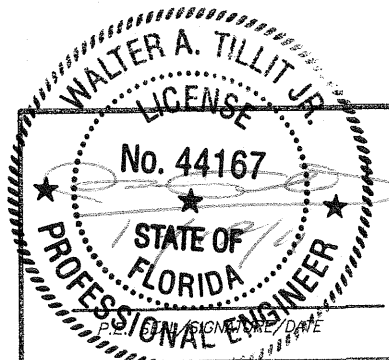
A/2

SPLIT STORM PANEL ELEVATION SCALE 1/8"=1"

EDGE OF WALL (IF APPLICABLE)

Max. MULLION SPAN * (SEE MULLION SCHEDULE)

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

20 GAGE GALVANIZED STEEL STORM PANEL						M.C.V./R.E./A.G. DRAWN BY:
GLOBAL PROTECTION PRODUCTS, LLC.						12/05/11 DATE:
4800 S.W. 51 STREET DAVIE, FL. 33314						11-213
PHONE: (954)689-7545, FAX: (954)689-8797						DRAWING No:
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 7 OF 26
1	OLD 08-237	12/05/11	3	-	-	
2	-	-	4	-	-	

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

(VALID ONLY FOR PANELS ① & ①A INSTALLATIONS AS PER SECTIONS 1 THRU 10, ON SHEETS 4, 5 & 6)

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	Max. PANEL LENGTH L (ft.) (SEE SECTIONS)	MINIMUM SEPARATION TO GLASS	PANEL CONDITION	APPLICABLE TO SECTIONS # AND ANY COMBINATION OF THEM
+55.5, -72.0	7'-5" OR LESS	2 1/4"	UNBOLTED	1 THRU 5 & 7
+55.5, -72.0	>7'-5" TO 8'-8" Max.	2 3/4"	UNBOLTED	1 THRU 5 & 7
+55.0, -72.0	>8'-8" TO 11'-2" Max.	2 1/2"	* BOLTED AT MIDLENGTH AT OVERLAPS	6
+43.8, -48.0	12'-4" OR LESS	3 1/2"	* BOLTED AT MIDLENGTH AT OVERLAPS	8, 9 & 10

* BOLTED W/ 1/4"x20x1" S.S. M.S. & WINGNUT AT OVERLAP & MIDLENGTH OF PANEL.

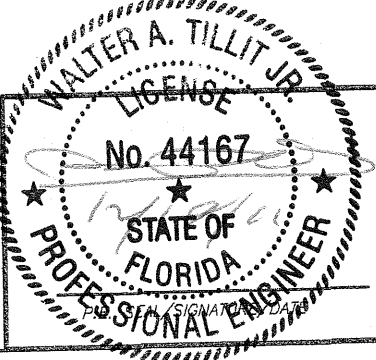
MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR
SPACING SCHEDULE FOR REGULAR STORM PANELS ① & ①A INSTALLATIONS
INTO EXISTING CONCRETE & CONCRETE BLOCK STRUCTURES

(VALID ONLY FOR PANELS ① & ①A INSTALLATIONS AS PER SECTIONS 1 THRU 7, ON SHEETS 4 & 5)

(VALID ONLY FOR PANELS ① & ②A INSTALLATIONS AS PER SECTION 4.1)												
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.)
	TAPCON		CF TAP-GRIP		CALK-IN		PANELMATE FEMALE ID		PANELMATE PLUS			
	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK		
+55.5, -72.0 OR LESS	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	6"	N/A	1 (TOP)	7'-5" OR LESS
	6"	6"	N/A	N/A	6"	6"	6"	6"	6"	6"	1 (BOTTOM)	
	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	6"	N/A	2 (TOP)	
	6"	N/A	N/A	N/A	6"	N/A	5"	N/A	5"	N/A	2 (BOTTOM)	
	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	6"	N/A	3 & 4 (TOP)	
	6"	6"	N/A	N/A	6"	6"	6"	6"	6"	6"	3 (BOTTOM)	
	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	6"	N/A	7 (TOP)	
	6"	6"	N/A	N/A	6"	6"	6"	6"	6"	6"	4 & 7 (BOTTOM)	
	N/A	N/A	12 1/2"	6 1/4"	12 1/2"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	5 (TOP/BOTTOM)	

SEE SHEETS 10 & 11 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDING. MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE 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.

ANCHOR TYPE	1/4"Ø	1/4"Ø	1/4"Ø	1/4"Ø	1/4"Ø	1/4"Ø
	TAPCON	CF TAP-GRIP	PANELMATE FEMALE ID	PANELMATE PLUS	CALK-IN	SOLID-SET
Min. ANCHOR SPACING (in.)	3	3	3	3	2 1/2	3
**EDGE DISTANCE (E.D. Min.)	Concrete (in.)	3	3	3	3	3 1/2
	Concrete Block (in.)	3	3	3 1/2	4	3 1/2
ACTUAL E.D. (EDGE DISTANCE)						
FACTOR						
1 1/2"	.35	.35	-	-	-	-
2 1/2"	-	-	-	-	.50	0.63
3"	1.00	1.00	-	1.00	.63	-
3 1/2"	-	-	1.00	-	1.00	1.00



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EB-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

20 GAGE GALVANIZED STEEL STORM PANEL

GLOBAL PROTECTION PRODUCTS, LLC.

4800 S.W. 51 STREET
DAVIE, FL. 33314
PHONE: (954)689-7545, FAX: (954)689-8797

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 08-237	12/05/11	3	-	-
2	-	-	4	-	-

M.C.V./R.E./A.G. DRAWN BY:

12/05/11 DATE:

11-213 DRAWING No:

SHEET 8 OF 26

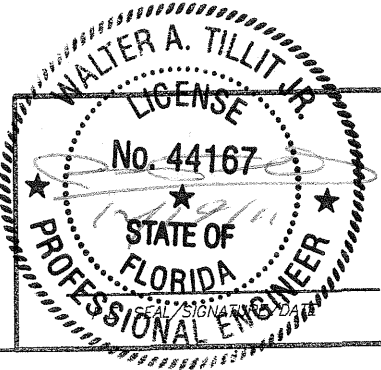
MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR
SPACING SCHEDULE FOR REGULAR STORM PANELS ① & ①A INSTALLATIONS
INTO EXISTING CONCRETE & CONCRETE BLOCK STRUCTURES

(VALID ONLY FOR PANELS ① & ①A INSTALLATIONS AS PER SECTIONS 1 THRU 10, ON SHEETS 4, 5 & 6)

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.)
	TAPCON		CF TAP-GRIP		CALK-IN		PANELMATE FEMALE ID		PANELMATE PLUS		SOLID SET			
	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK		
+55.5, -72.0 OR LESS	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	6"	N/A	N/A	N/A	1 (TOP)	>7'-5" TO 8'-8"
	6"	6"	N/A	N/A	6"	6"	6"	6"	6"	6"	N/A	N/A	1 (BOTTOM)	
	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	6"	N/A	N/A	N/A	2 (TOP)	
	6"	N/A	N/A	N/A	6"	N/A	5"	N/A	5"	N/A	N/A	N/A	2 (BOTTOM)	
	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	6"	N/A	N/A	N/A	3 & 4 (TOP)	
	6"	6"	N/A	N/A	6"	6"	6"	6"	6"	6"	N/A	N/A	3 (BOTTOM)	
	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	6"	N/A	N/A	N/A	7 (TOP)	
	6"	6"	N/A	N/A	6"	6"	6"	6"	6"	6"	N/A	N/A	4 & 7 (BOTTOM)	
	N/A	N/A	12 1/2"	6 1/4"	12 1/2"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	N/A	N/A	5 (TOP/BOTTOM)	
+50.0, -53.3	N/A	N/A	12 1/2"	6 1/4"	12 1/2"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	N/A	N/A	6 (TOP/BOTTOM)	>8'-8" TO 11'-2"
+55.0, -72.0	N/A	N/A	6 1/4"	N/A	6 1/4"	N/A	6 1/4"	6 1/4"	6 1/4"	6 1/4"	N/A	N/A	6 (TOP/BOTTOM)	>8'-8" TO 11'-2"
+43.8, -48.0 OR LESS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6 1/4"	6 1/4"	6 1/4"	6 1/4"	8, 9, 10 (TOP)	12'-4" OR LESS
	6"	6"	N/A	N/A	N/A	N/A	N/A	N/A	6"	6"	6 1/4"	6 1/4"	8 (BOTTOM)	
	6"	6"	N/A	N/A	N/A	N/A	N/A	N/A	6"	6"	6 1/4"	6 1/4"	9 (BOTTOM)	
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6 1/4"	6 1/4"	6 1/4"	6 1/4"	10 (BOTTOM)	

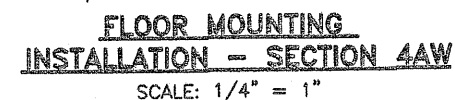
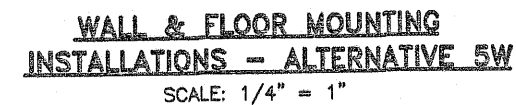
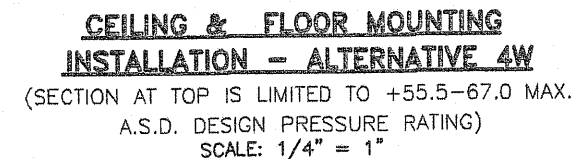
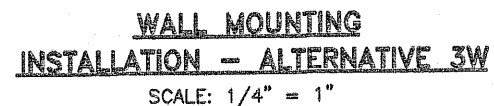
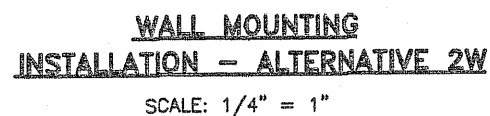
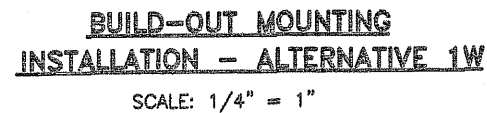
SEE SHEETS 10, 11 AND 12 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDING. MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE REDUCE ANCHOR SPACING BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. 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.

ANCHOR TYPE	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
	TAPCON	CF TAP-GRIP	PANELMATE FEMALE ID	PANELMATE PLUS	CALK-IN	SOLID-SET
Min. ANCHOR SPACING (in.)	3	3	3	3	2 1/2	3
**EDGE DISTANCE (E.D. Min.)	Concrete (in.)	3	3	3	3	3 1/2
	Concrete Block (in.)	3	3	3 1/2	3 1/2	4
ACTUAL E.D. (EDGE DISTANCE)	FACTOR					
1 1/2"	.35	.35	-	-	-	-
2 1/2"	-	-	-	-	.50	0.63
3"	1.00	1.00	-	1.00	.63	-
3 1/2"	-	-	1.00	-	1.00	1.00



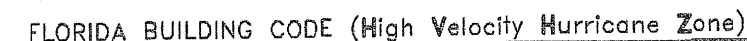
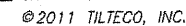
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 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305) 871-1530 • Fax: (305) 871-1531 EB-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167		20 GAGE GALVANIZED STEEL STORM PANEL			M.C.V./R.E./A.G. DRAWN BY:
		GLOBAL PROTECTION PRODUCTS, LLC.			12/05/11 DATE:
		4800 S.W. 51 STREET DAVIE, FL. 33314 PHONE: (954) 689-7545, FAX: (954) 689-8797			11-213 DRAWING No:
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 08-237	12/05/11	3	-	-
2	-	-	4	-	-
					SHEET 9 OF 26

INSTALLATION DETAILS FOR REGULAR PANELS ① & ①A INTO EXISTING WOOD STRUCTURES



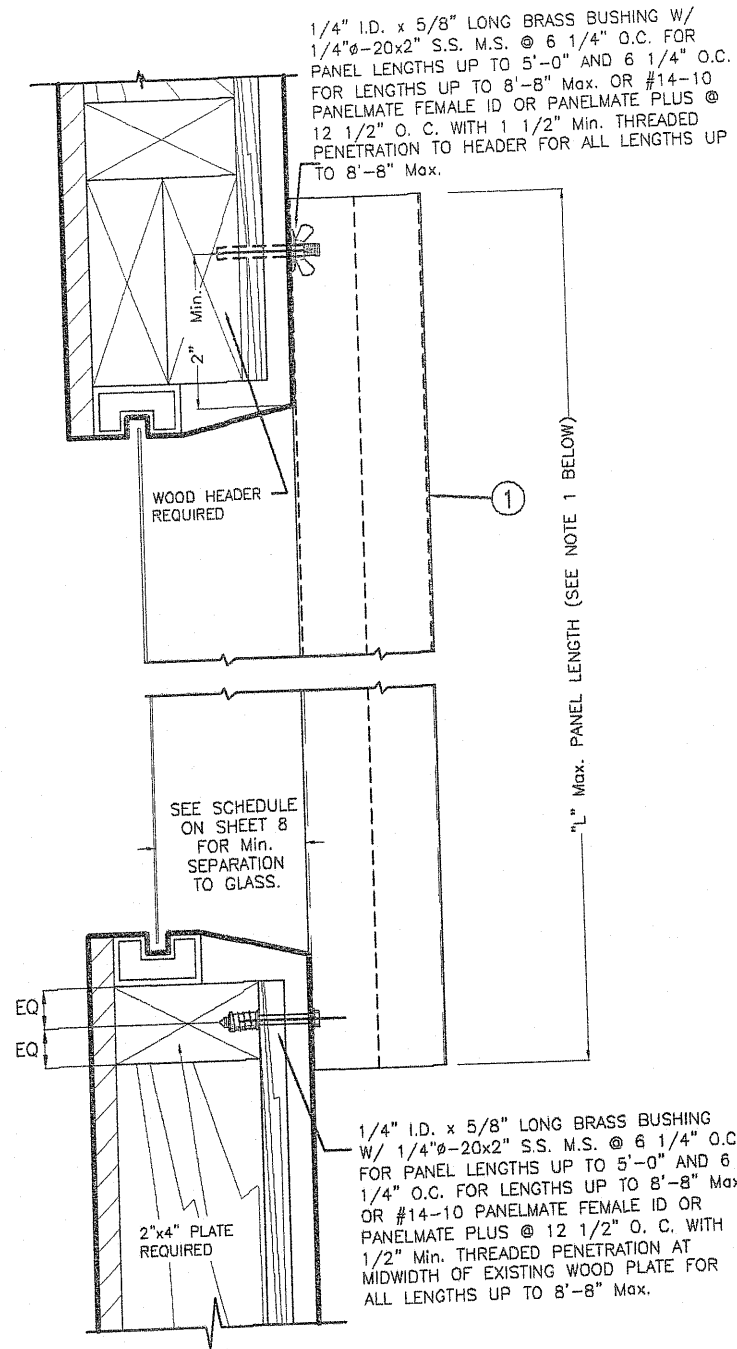
1. INSTALLATIONS ARE ONLY VALID FOR BUILDINGS WITH A.S.D. DESIGN LOADS UP TO +55.5, -72.0 p.s.f. AND PANEL'S LENGTH UP TO 8'-8".
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE NO. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

TOP & BOTTOM MOUNTINGS CAN BE
COMBINED IN ANY WAY TO SUIT ANY
INSTALLATION.

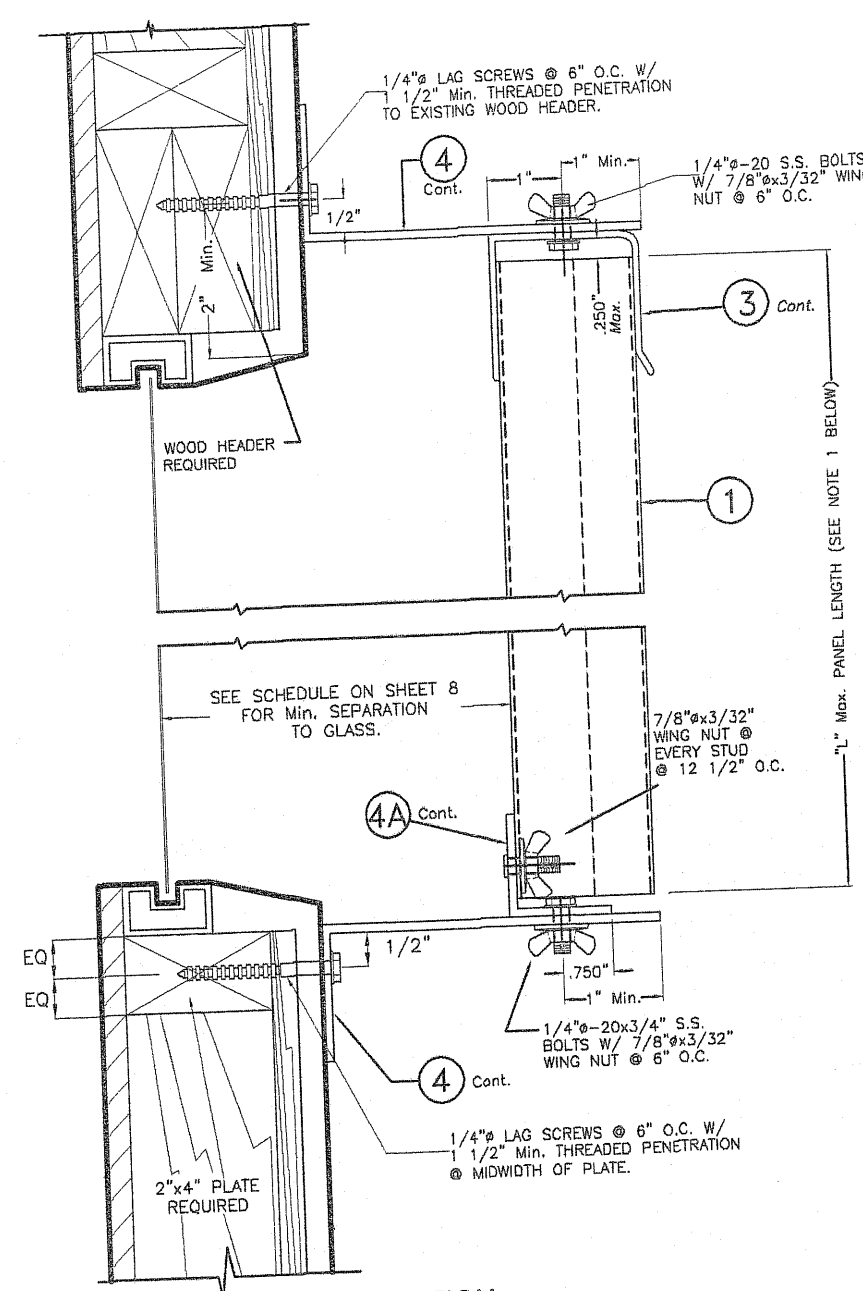


20 GAGE GALVANIZED STEEL STORM PANEL						M.C.V./R.E./A.G. DRAWN BY:
GLOBAL PROTECTION PRODUCTS, LLC.						12/05/11 DATE:
4800 S.W. 51 STREET DAVIE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797						11-213
DRAWING No:						
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
1	OLD 06-237	12/05/11	3	-	-	
			4	-	-	
						SHEET 10 OF 26

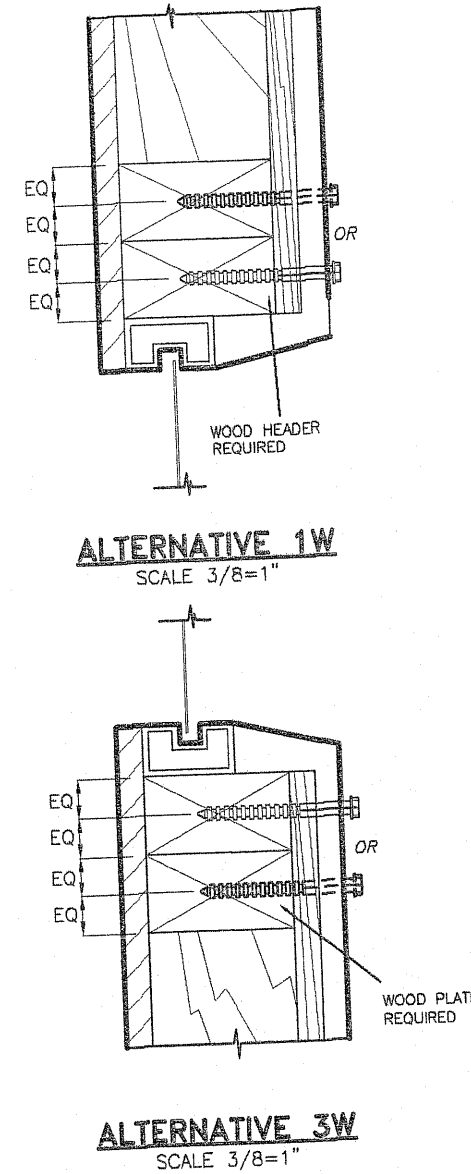
INSTALLATION DETAILS FOR REGULAR PANELS ① & ①A INTO EXISTING WOOD STRUCTURES



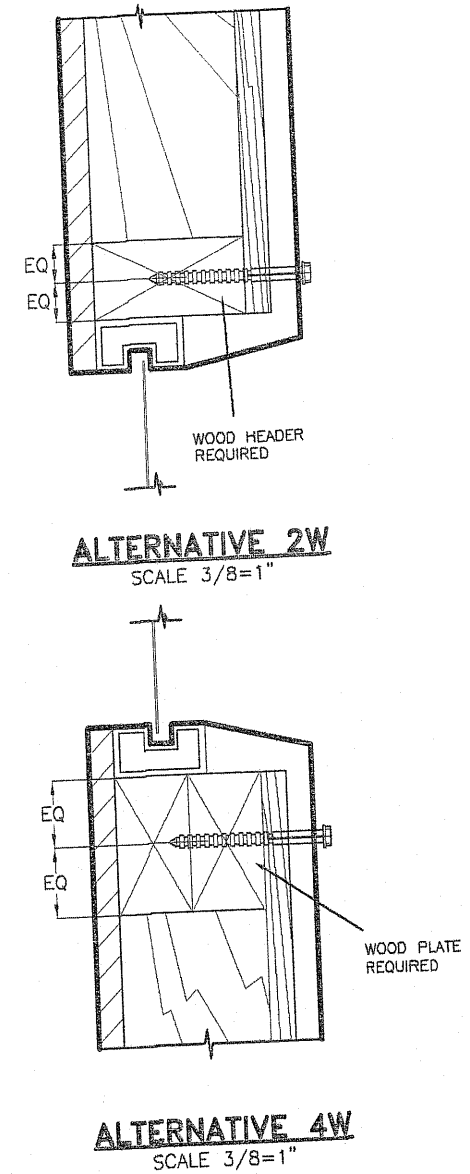
**DIRECT MOUNTING INSTALLATION
ALTERNATIVE 6W**
SCALE 3/8=1"



**BUILD-OUT MOUNTING INSTALLATION
ALTERNATIVE 7W**
SCALE 3/8=1"



**ALTERNATIVE WOOD FRAME
CONDITIONS & ANCHOR LOCATIONS**
NOTE: SHUTTER TRACKS NOT SHOWN FOR CLARITY





NOTES:

- INSTALLATIONS ARE ONLY VALID FOR BUILDINGS WITH A.S.D. DESIGN LOADS UP TO +55.5, -72.0 PSF AND PANEL'S LENGTH UP TO 8'-8".
- FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE NO. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

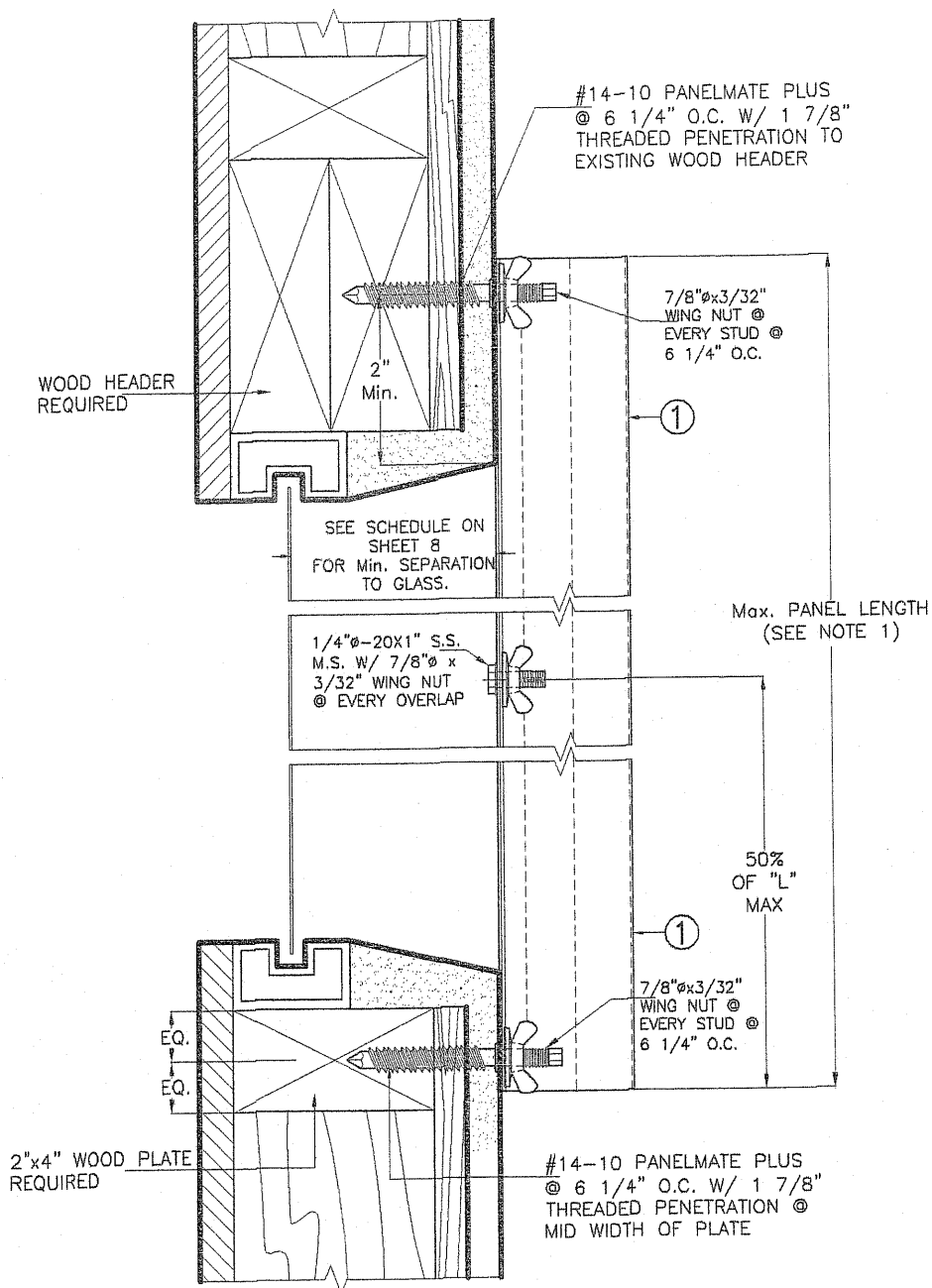
NOTE FOR COMBINATION OF SECTIONS:

TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

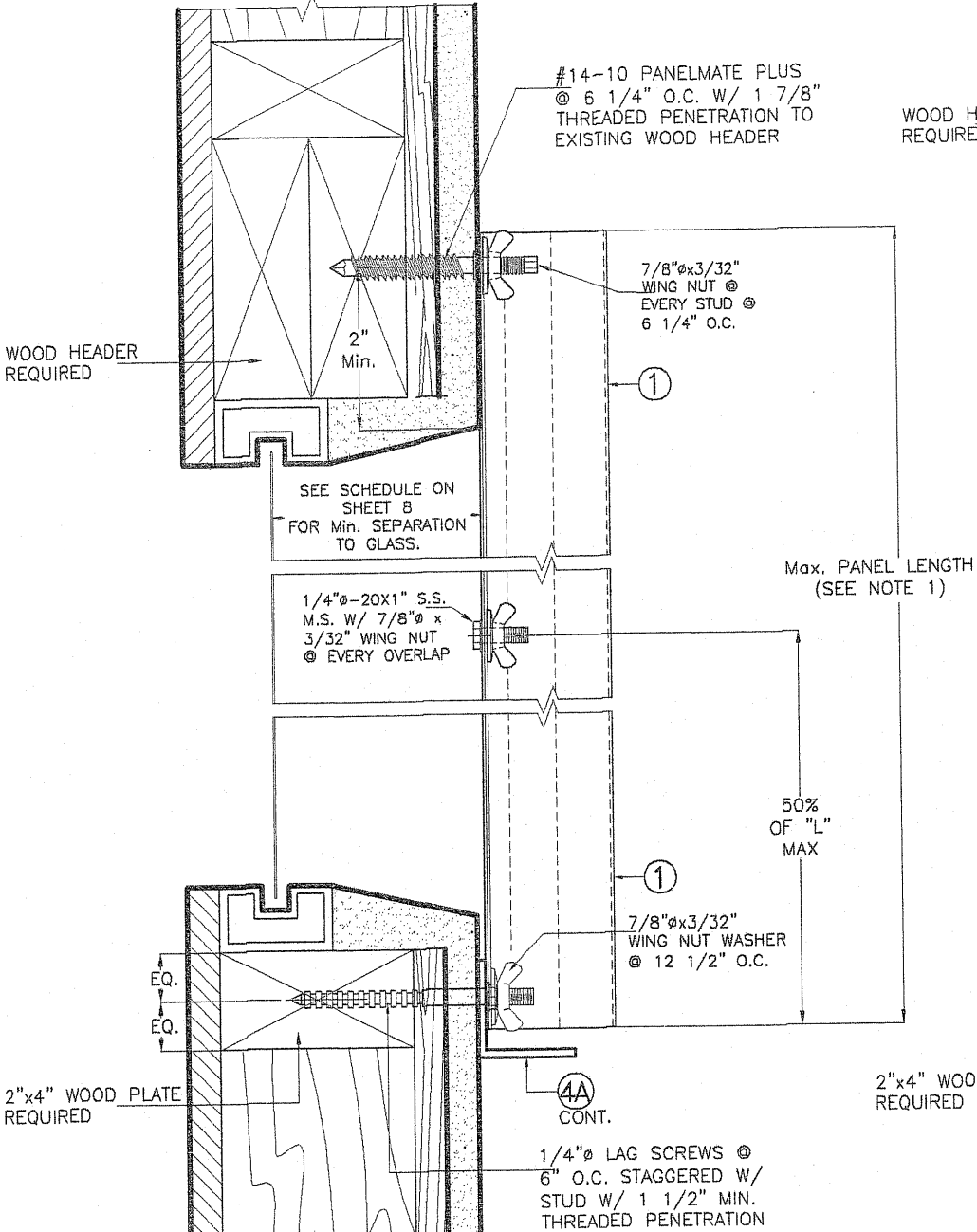
FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

 <hr/> P.E. SEAL/SIGNATURE/DATE	 TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 38th St., Ste. 305, VIRGINIA GARDENS, FL 33168 Phone : (305) 871-1530 . Fax : (305) 871-1531 EB-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167	20 GAGE GALVANIZED STEEL STORM PANEL				DRAWN BY:	
		GLOBAL PROTECTION PRODUCTS, LLC.				12/05/11 DATE:	
		4800 S.W. 51 STREET DAVIE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797				11-213 DRAWING No:	
		REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
		1	OLD 08-237	12/05/11	3	-	-
2	-	-	4	-	-		
SHEET 11 OF 26							

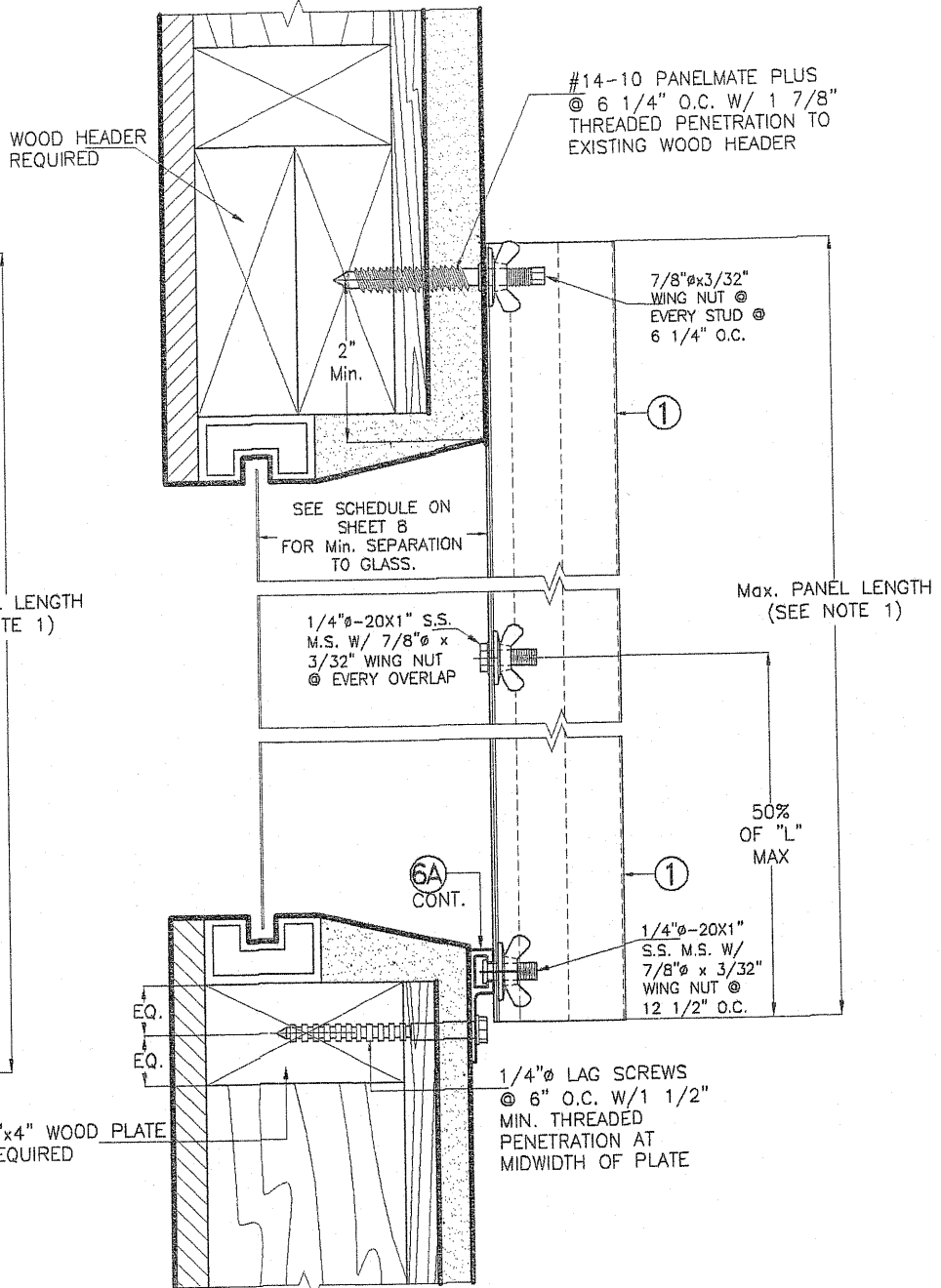
INSTALLATION DETAILS FOR REGULAR PANELS ① & 1A
INTO EXISTING WOOD STRUCTURES



**DIRECT MOUNTING INSTALLATION
ALTERNATIVE 8W**
SCALE 3/8=1"



**DIRECT MOUNT / WALL MOUNTING INSTALLATION
ALTERNATIVE 9W**
SCALE 3/8=1"

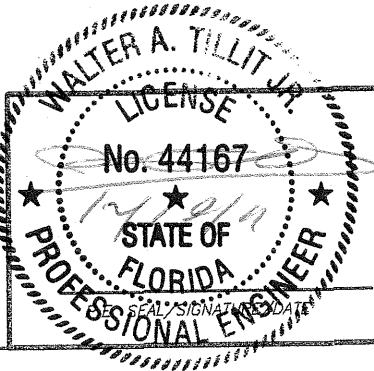


**DIRECT MOUNT / WALL MOUNTING INSTALLATION
ALTERNATIVE 10W**
SCALE 3/8=1"

- NOTES:**
1. INSTALLATIONS FOR ALTERNATIVES 8W, 9W & 10W ONLY VALID FOR BUILDINGS WITH A.S.D. DESIGN LOADS UP TO +43.8, -48.0 p.s.f. AND PANEL'S LENGTH UP TO 12'-4"
 2. 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:

TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



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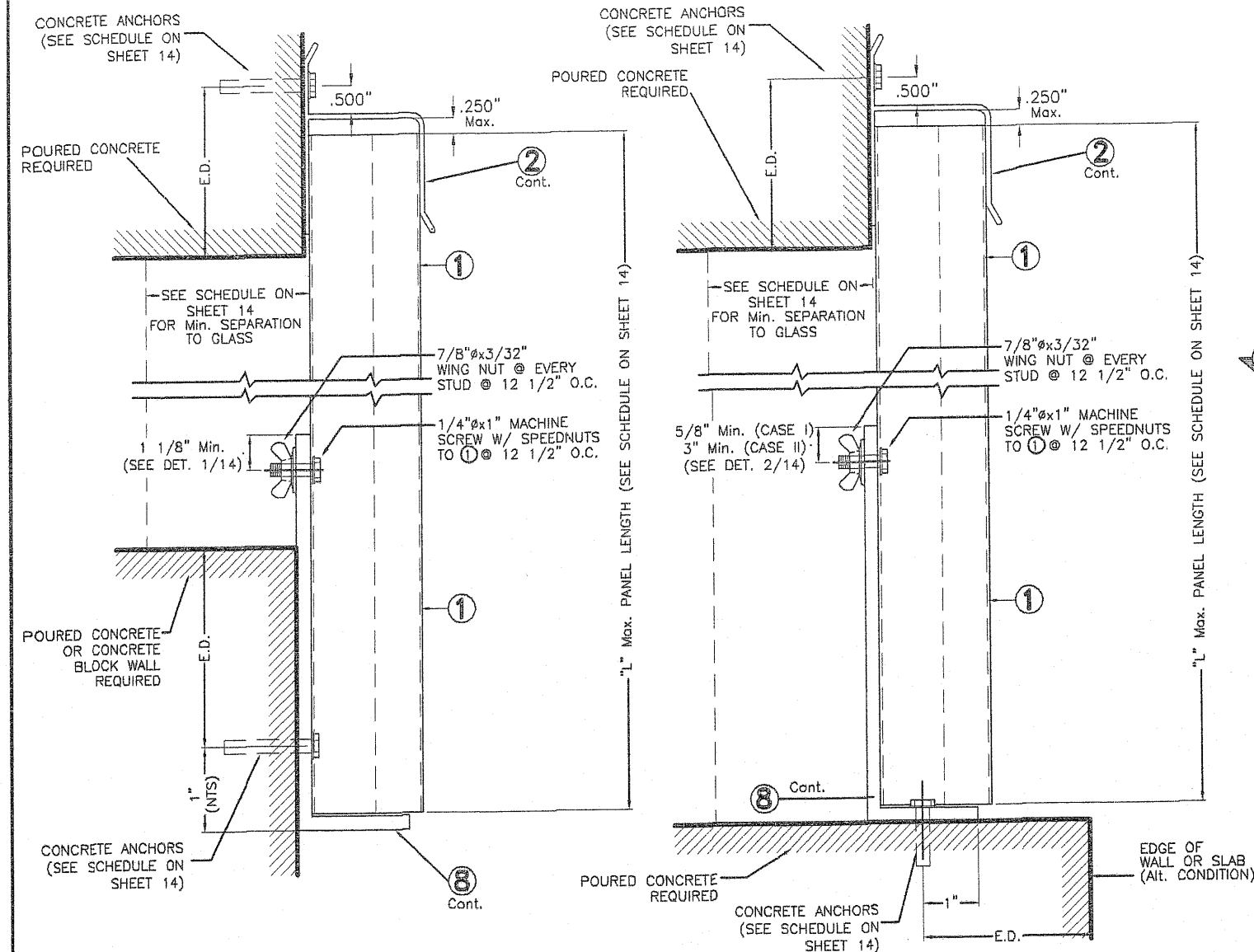
TILTECO INC.

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

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

20 GAGE GALVANIZED STEEL STORM PANEL			M.C.V./R.E./A.G. DRAWN BY:		
GLOBAL PROTECTION PRODUCTS, LLC.			12/05/11 DATE:		
4800 S.W. 51 STREET DAVE, FL. 33314 PHONE: (954) 689-7545, FAX: (954) 689-8797			11-213 DRAWING No:		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 08-237	12/05/11	3	-	-
2	-	-	4	-	-

SHEET 12 OF 26

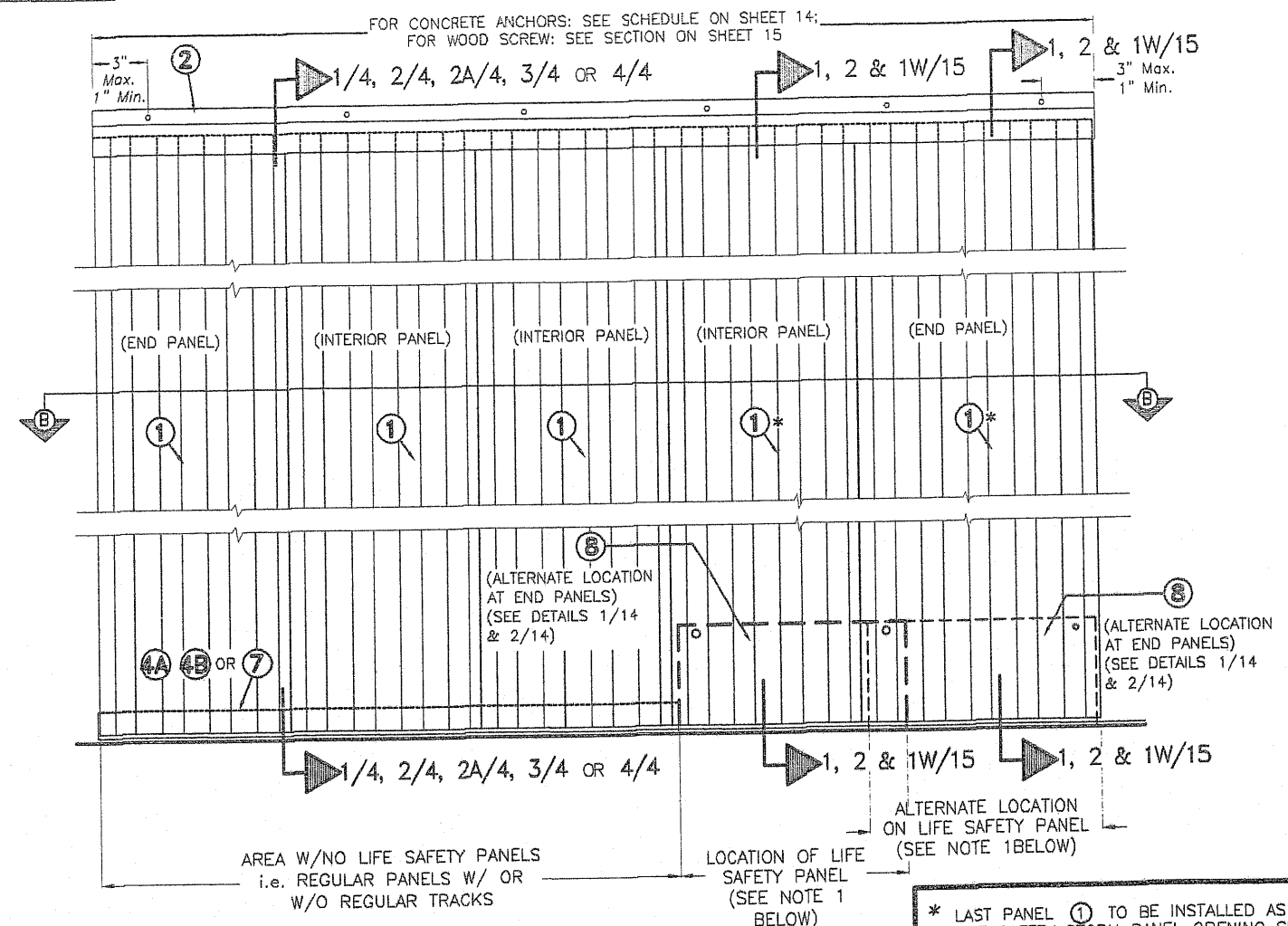


WALL MOUNTING INSTALLATION
- SECTION 1 SCALE: 3/8" = 1"

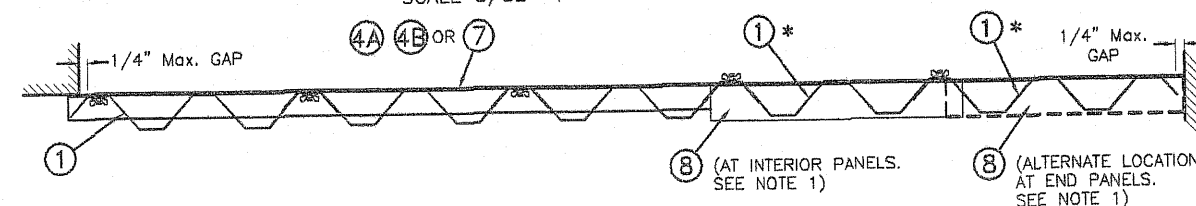
WALL AND FLOOR MOUNTING INSTALLATION
- SECTION 2 SCALE: 3/8" = 1"

NOTES ON LIFE SAFETY STORM PANEL SYSTEM INSTALLATION:

1. LIFE SAFETY STORM PANEL CAN BE LOCATED AS AN END PANEL (FIRST OR LAST PANEL) OR AS AN INTERIOR PANEL. (ANY PANEL LOCATION IN BETWEEN END PANELS). LIFE SAFETY PANELS MAY OR MAY NOT BE INSTALLED ADJACENT TO REGULAR PANELS (W/ OR W/O REGULAR TRACKS.)
2. LIFE SAFETY STORM PANEL CONSISTS OF 0.039" GALVANIZED STEEL STORM PANEL AS PER COMPONENT ①, SHEET 2 OF DRAWING. THIS PANEL ALLOWS ITSELF TO BE REMOVED OR INSTALLED FROM THE INSIDE OF STRUCTURE.
3. LIFE SAFETY PANEL REQUIRES TOP TRACK TO BE COMPONENT ② & BOTTOM TRACK TO BE COMPONENT ③ AS PER SHEET 2 OF THIS DRAWING. COMPONENT ③ MAY BE INSTALLED WALL OR FLOOR MOUNTED FOLLOWING SECTIONS 1 & 2 ON THIS SHEET, AS WELL AS DETAILS 1 & 2 ON SHEET 14.
4. Min. LENGTH FOR COMPONENT ③ IS 15". Max. ANCHOR SPACING FOR COMPONENT ③ ANCHORAGE AT BOTTOM IS GIVEN ON SCHEDULES 1 & 2, SHEET 14. COMPONENT ③ MAY BE PERMANENT OR REMOVABLE.
5. SEE DETAILS FOR INSTALLATION INTO WOOD FRAME BUILDINGS ON SHEET 15.
6. SEE SHEET 4 FOR DETAIL APPLICABLE TO THE NECESSITY FOR THE INSTALLATION OF SPACERS AT TRACKS INSTALLED ADJACENT AND BEYOND TO STUCCO/WOOD BANDS.

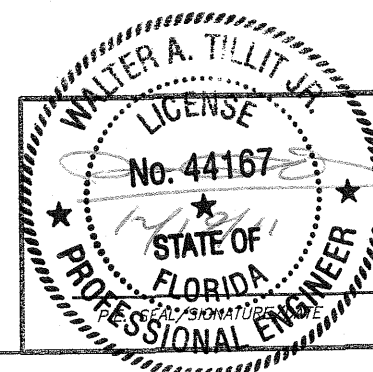


OPTION #1 FOR LIFE SAFETY STORM
PANEL ① & ①A
ELEVATION
SCALE 3/32" = 1"



SECTION B-B
SCALE 3/32" = 1"

* LAST PANEL ① TO BE INSTALLED AS LIFE SAFETY STORM PANEL OPENING SHALL ALWAYS BE PROVIDED W/ REAR HANDLE TO FACILITATE INSTALLATION IF INTENDED TO BE INSTALLED OR REMOVED FROM INSIDE OF STRUCTURE.

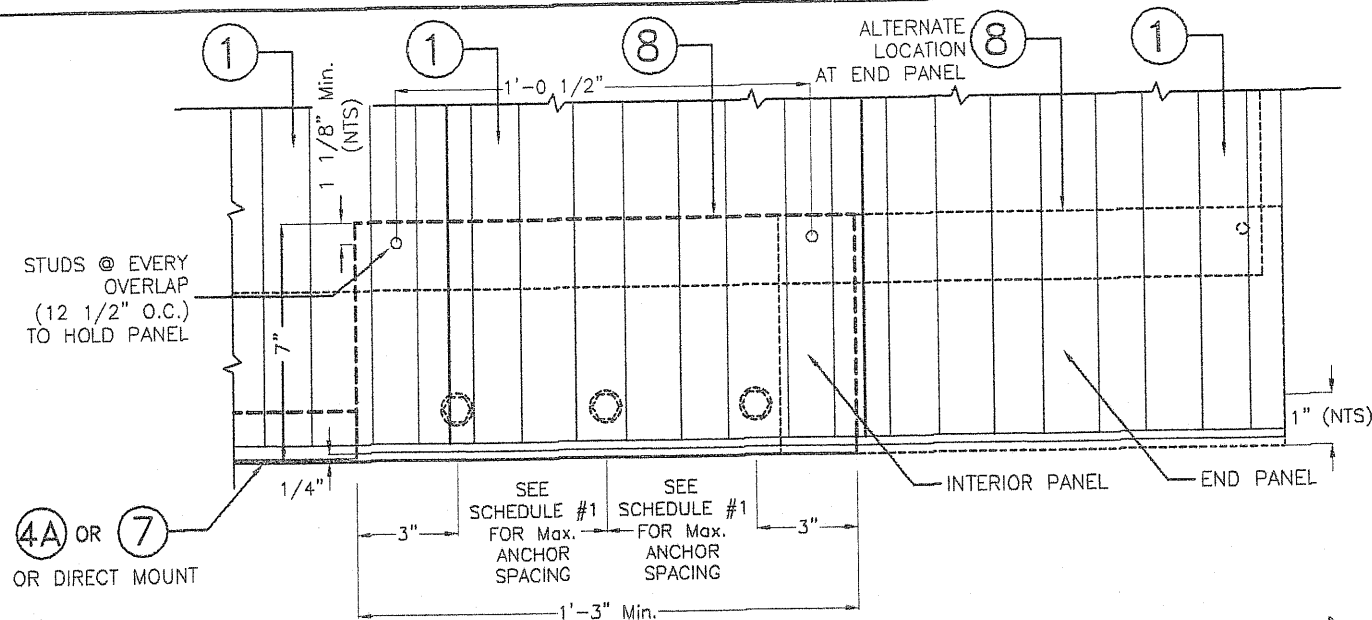


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WALTER A. TILLIT Jr., P.E.
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FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

LIFE SAFETY STORM PANEL SYSTEM™ (20 GAGE GALVANIZED STEEL STORM PANEL)					M.C.V./R.E./A.G. DRAWN BY:
GLOBAL PROTECTION PRODUCTS, LLC.					12/05/11 DATE:
4800 S.W. 51 STREET DAVE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797					11-213 DRAWING No:
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 08-237	12/05/11	3	-	-
2	-	-	4	-	-

SHEET 13 OF 26



DETAIL 1 : WALL MOUNTING INSTALLATION (APPLICABLE TO SCHEDULE 1)
SCALE: 3/16" = 1"

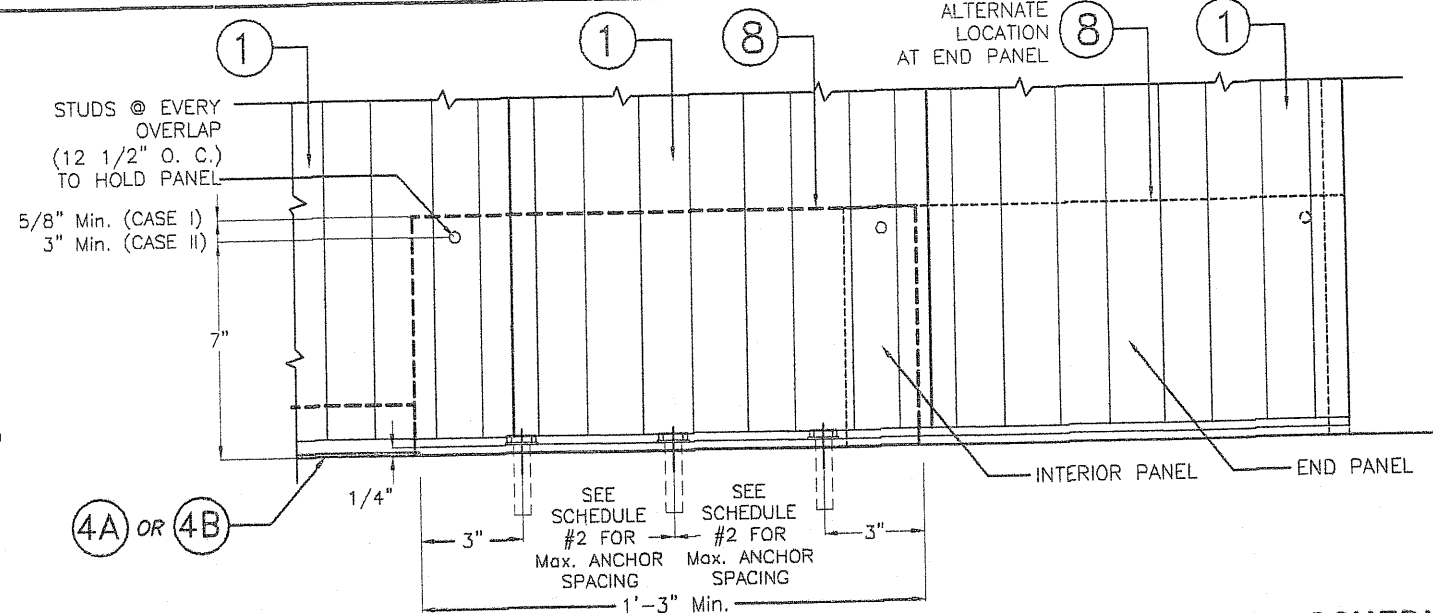
**MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND
CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE AT ⑧ FOR
INSTALLATIONS INTO CONCRETE & CONCRETE BLOCK STRUCTURES**

SCHEDULE # 1 : ⑧ W/ WALL MOUNT CONDITIONS TOP & BOTTOM W/ E.D. = 3 1/2" *

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	TAPCON		CF TAP-GRIP		CALK-IN		PANELMATE FEMALE ID		PANELMATE PLUS		APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK		
+55.0, -72.0	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	6"	N/A	1 & 2 (TOP)	5'-0" OR LESS
	9"	9"	9"	9"	9"	9"	9"	9"	9"	9"	1 (BOTTOM)	
+55.0 -72.0	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	6"	N/A	1 & 2 (TOP)	>5'-0" TO 7'-6"
	9"	6"	9"	6"	9"	7 1/2"	9"	9"	9"	9"	1 (BOTTOM)	
+55.0 -72.0	6"	N/A	N/A	N/A	6"	N/A	6"	N/A	6"	N/A	1 & 2 (TOP)	>7'-6" TO 8'-8"
	9"	6"	9"	6"	9"	6"	6"	6"	6"	6"	1 (BOTTOM)	

SCHEDULE # 2 : ⑧ W/ FLOOR MOUNT CONDITIONS AT BOTTOM W/ E.D. = 3 1/2" *

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	CASE I (STUD @ 5/8" Min. FROM TOP OF ANGLE)		CASE II (STUD @ 3" Min. FROM TOP OF ANGLE)		APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	TAPCON TO CONCRETE	CALK-IN TO CONCRETE	TAPCON TO CONCRETE	CALK-IN TO CONCRETE		
+49.2 -61.5	3"	3"	4 1/2"	4 1/2"	2 (BOTTOM)	7'-6" OR LESS
+52.8 -66.0	3"	3"	4"	4"	2 (BOTTOM)	7'-6" OR LESS
+55.0 -72.0	2 1/2"	2 1/2"	4"	3 1/2"	2 (BOTTOM)	7'-6" OR LESS
+55.0 -72.0	2 1/2"	2 1/2"	N/A	N/A	2 (BOTTOM)	>7'-6" TO 8'-0"
+55.0 -72.0	N/A	N/A	3"	3"	2 (BOTTOM)	>7'-6" TO 8'-8"



DETAIL 2 : FLOOR MOUNTING INSTALLATION (APPLICABLE TO SCHEDULE 2)
SCALE: 3/16" = 1"

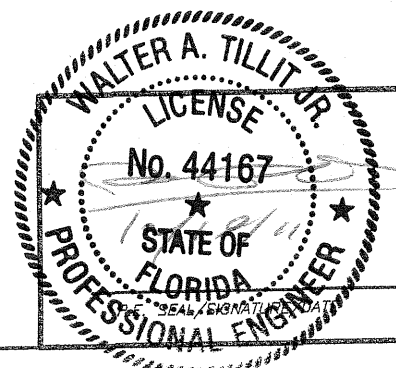
**MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CORRESPONDING
MAXIMUM PANEL LENGTH "L" SCHEDULE**

(APPLICABLE ONLY TO SECTIONS 1 & 2 INDICATED FOR LIFE SAFETY STORM PANEL
SYSTEM ON SHEET 13).

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	Max. PANEL LENGTH "L" (ft.) (SEE SECTIONS)	MINIMUM SEPARATION TO GLASS	PANEL CONDITION
+55.0, -72.0	8'-8"	2 3/4"	UNBOLTED

SEE SHEET 15 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDING. MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE 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.

ANCHOR TYPE	1/4"Ø	1/4"Ø	1/4"Ø	1/4"Ø	1/4"Ø
	TAPCON	CF TAP-GRIP	PANELMATE FEMALE ID	PANELMATE PLUS	CALK-IN
Min. ANCHOR SPACING (in.)	3	3	3	3	2 1/2
*EDGE DISTANCE (E.D. Min.)	Concrete (in.)	3	3	3	3
	Concrete Block (in.)	3	3	3 1/2	3 1/2
ACTUAL E.D. (EDGE DISTANCE)		FACTOR			
1 1/2"		.35	.35	-	-
2 1/2"		-	-	-	.50
3"		1.00	1.00	-	.63
3 1/2"		-	-	1.00	1.00

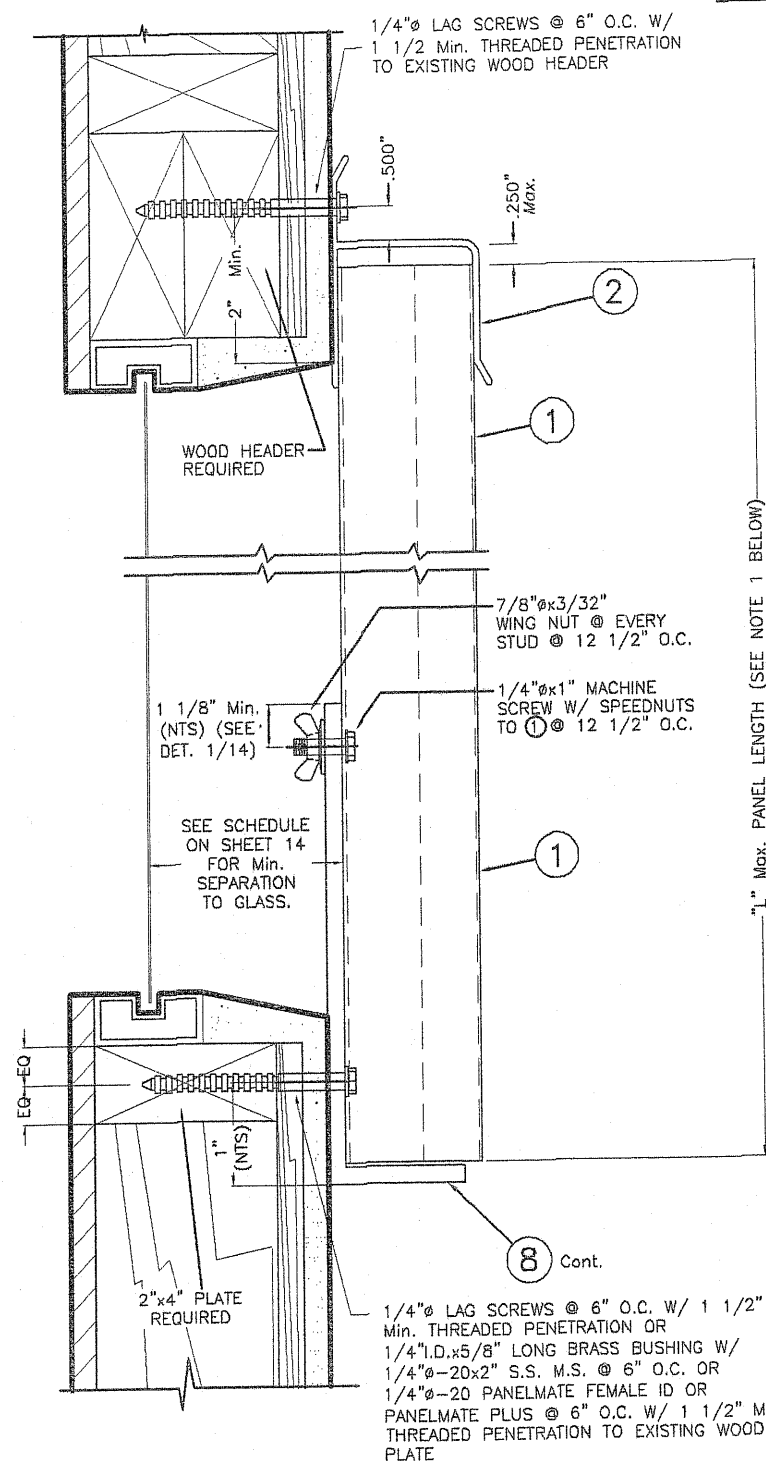


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EB-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

LIFE SAFETY STORM PANEL SYSTEM™ (20 GAGE GALVANIZED STEEL STORM PANEL)			M.C.V./R.E./A.G. DRAWN BY:		
GLOBAL PROTECTION PRODUCTS, LLC.			12/05/11 DATE:		
4800 S.W. 51 STREET DAVIE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797			11-213 DRAWING No:		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

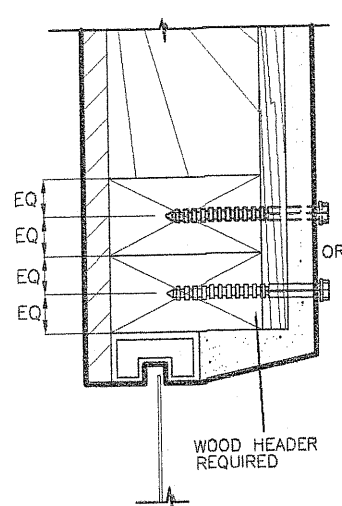
INSTALLATION DETAILS FOR OPTION # 1 FOR LIFE SAFETY STORM PANEL SYSTEM INTO EXISTING WOOD STRUCTURES



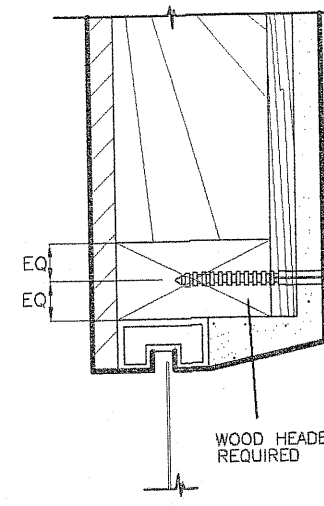
WALL MOUNTING INSTALLATION ALTERNATIVE 1W SCALE: 3/8" = 1"

NOTES:

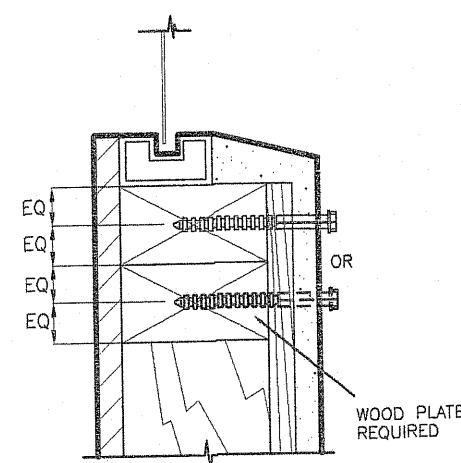
- INSTALLATIONS ARE ONLY VALID FOR BUILDINGS WITH A.S.D. DESIGN LOADS UP TO +55.5, -72.0 psf AND PANEL'S LENGTH UP TO 8'-8".
- FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



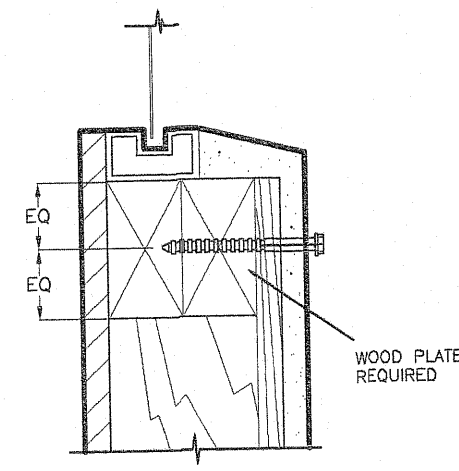
ALTERNATIVE 1



ALTERNATIVE 2



ALTERNATIVE 3

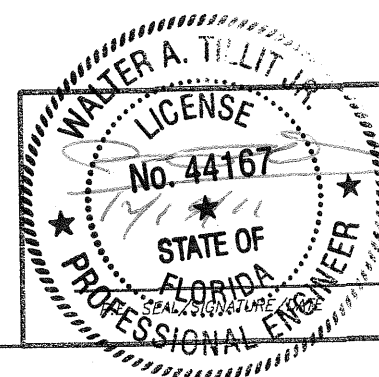


ALTERNATIVE 4

ALTERNATIVE WOOD FRAME CONDITIONS & ANCHOR LOCATIONS

SCALE: 3/8" = 1"

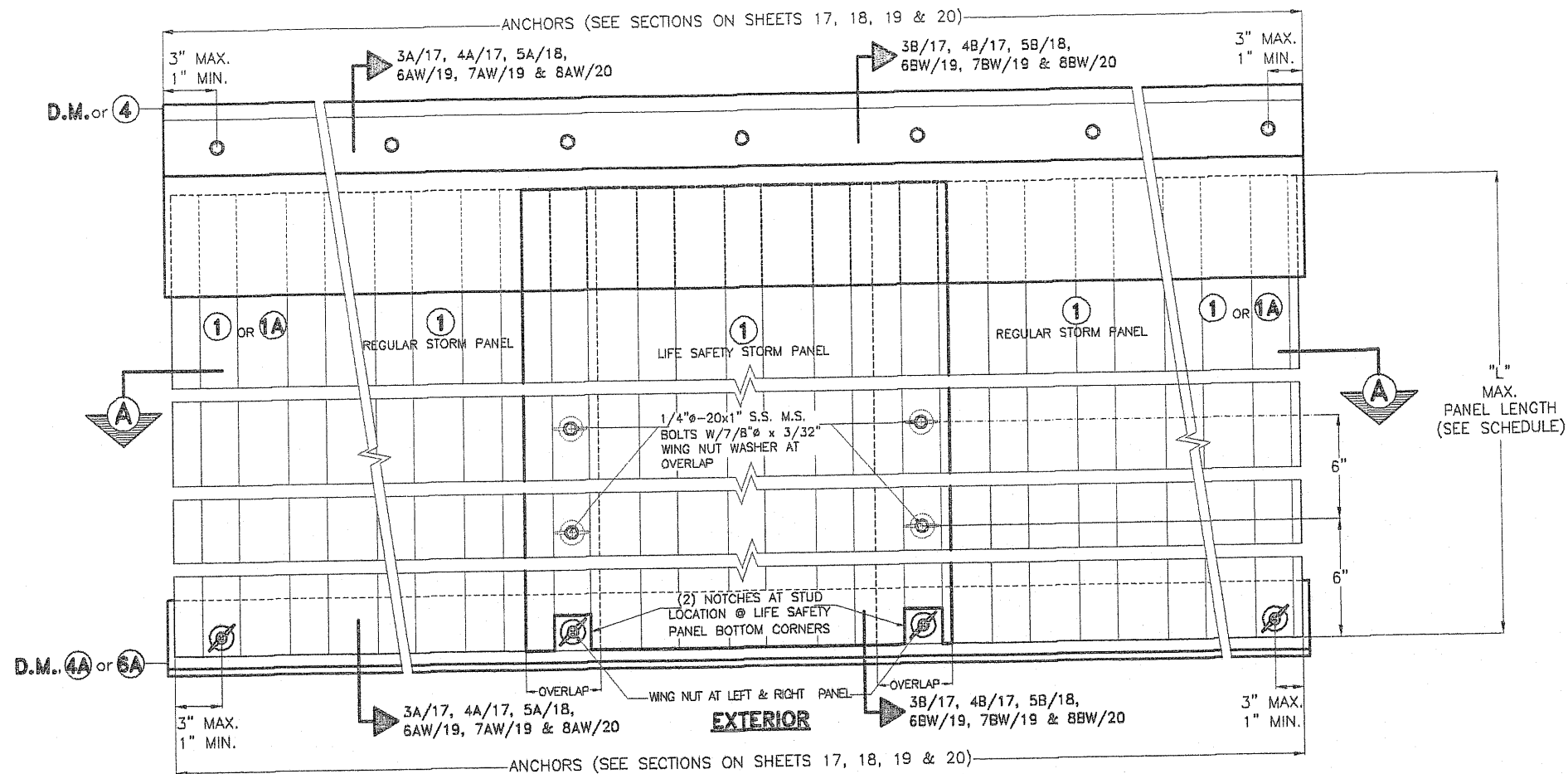
NOTE: SHUTTER TRACKS NOT SHOWN FOR CLARITY



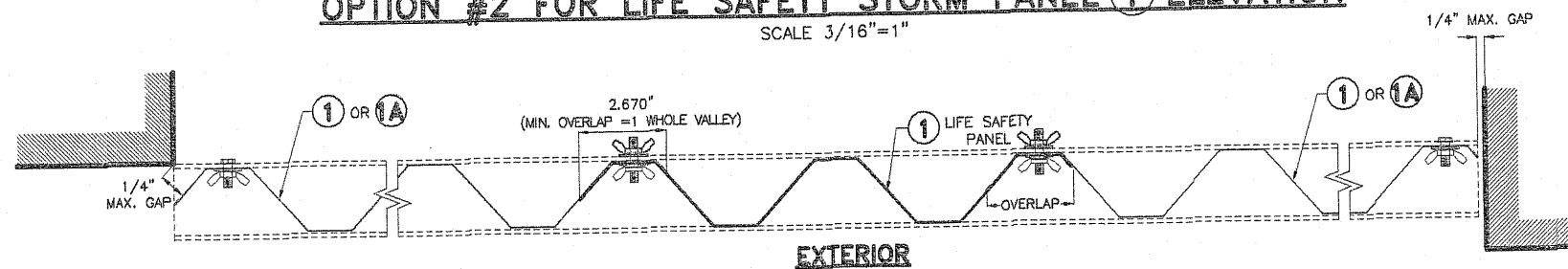
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FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

LIFE SAFETY STORM PANEL SYSTEM™ (20 GAGE GALVANIZED STEEL STORM PANEL)						M.C.V./R.E./A.G.
DRAWN BY:						12/05/11
DATE:						11-213
DRAWING No:						SHEET 15 OF 26
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	
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2	-	-	4	-	-	



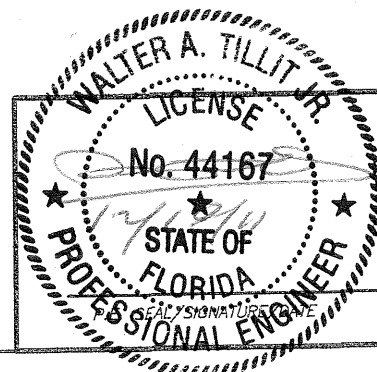
OPTION #2 FOR LIFE SAFETY STORM PANEL ① ELEVATION
SCALE 3/16"=1"



SECTION A-A
SCALE 3/16"=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	PANEL CONDITION
+55.0, -72.0	8'-8"	2 3/4"	UNBOLTED

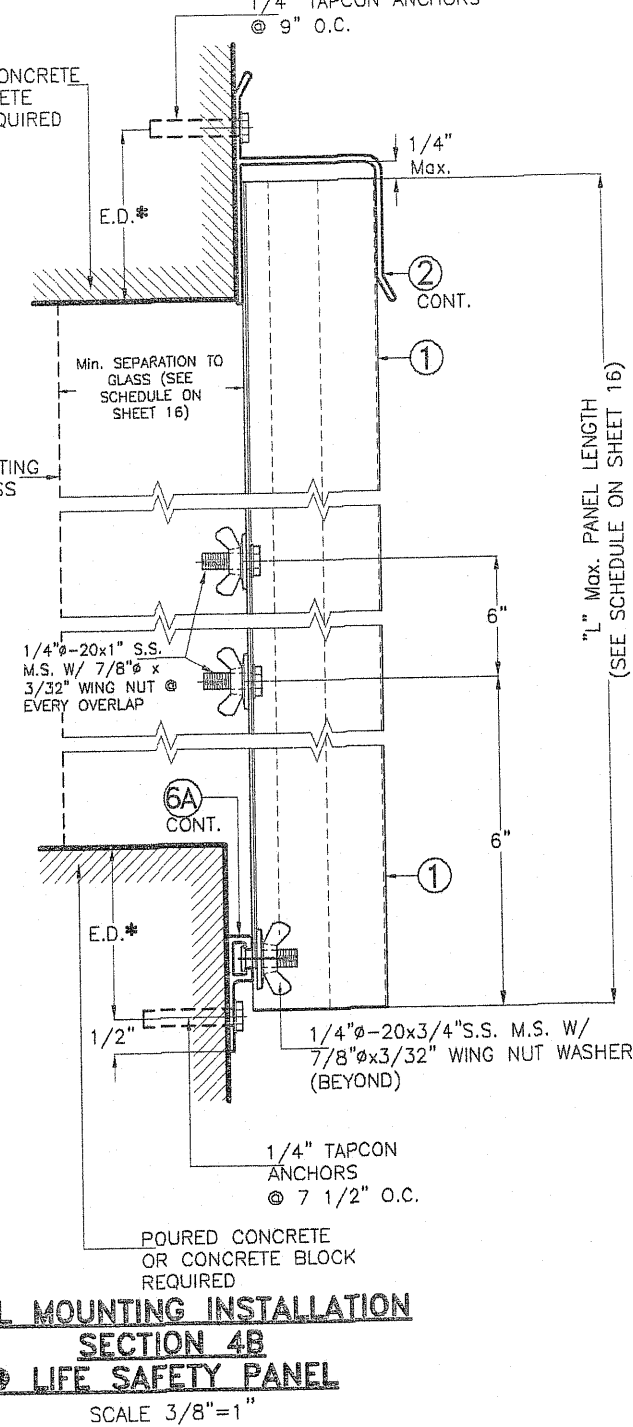
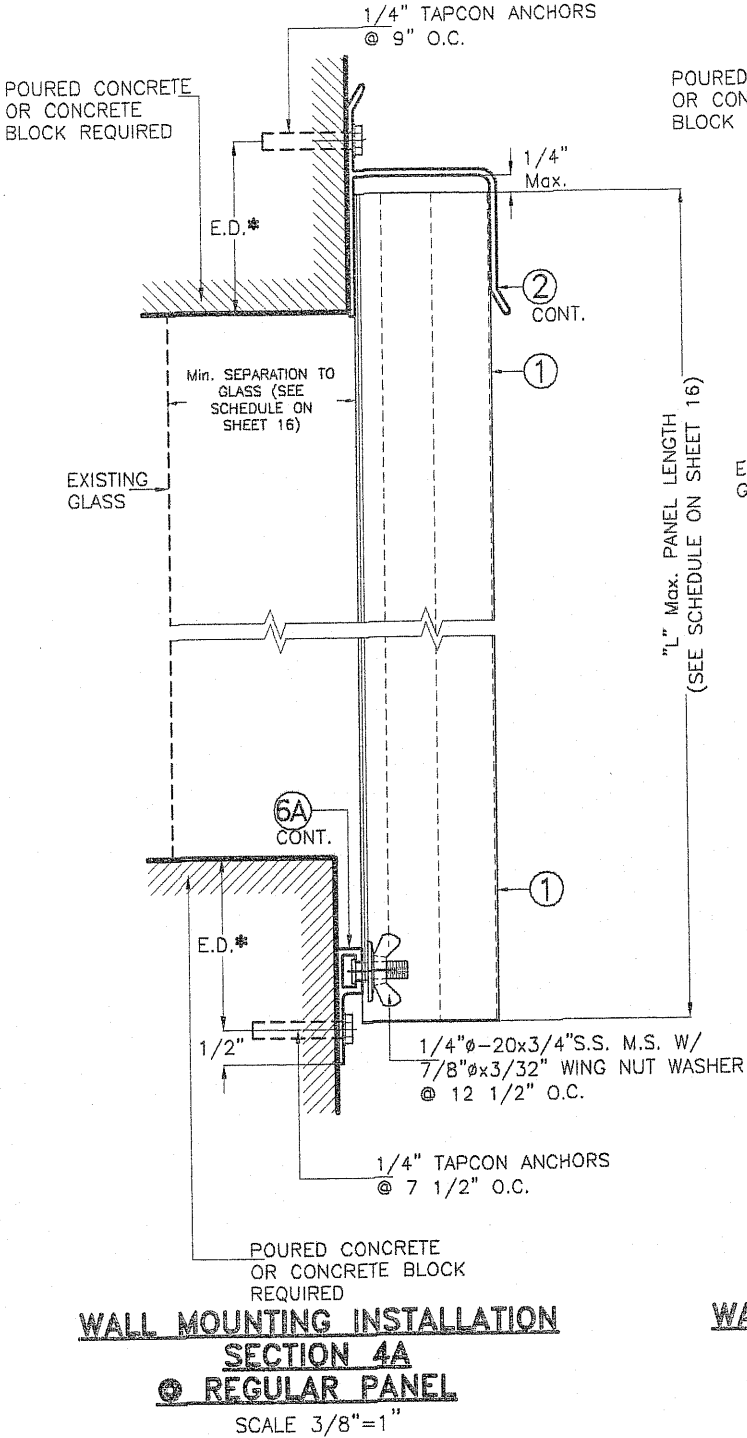
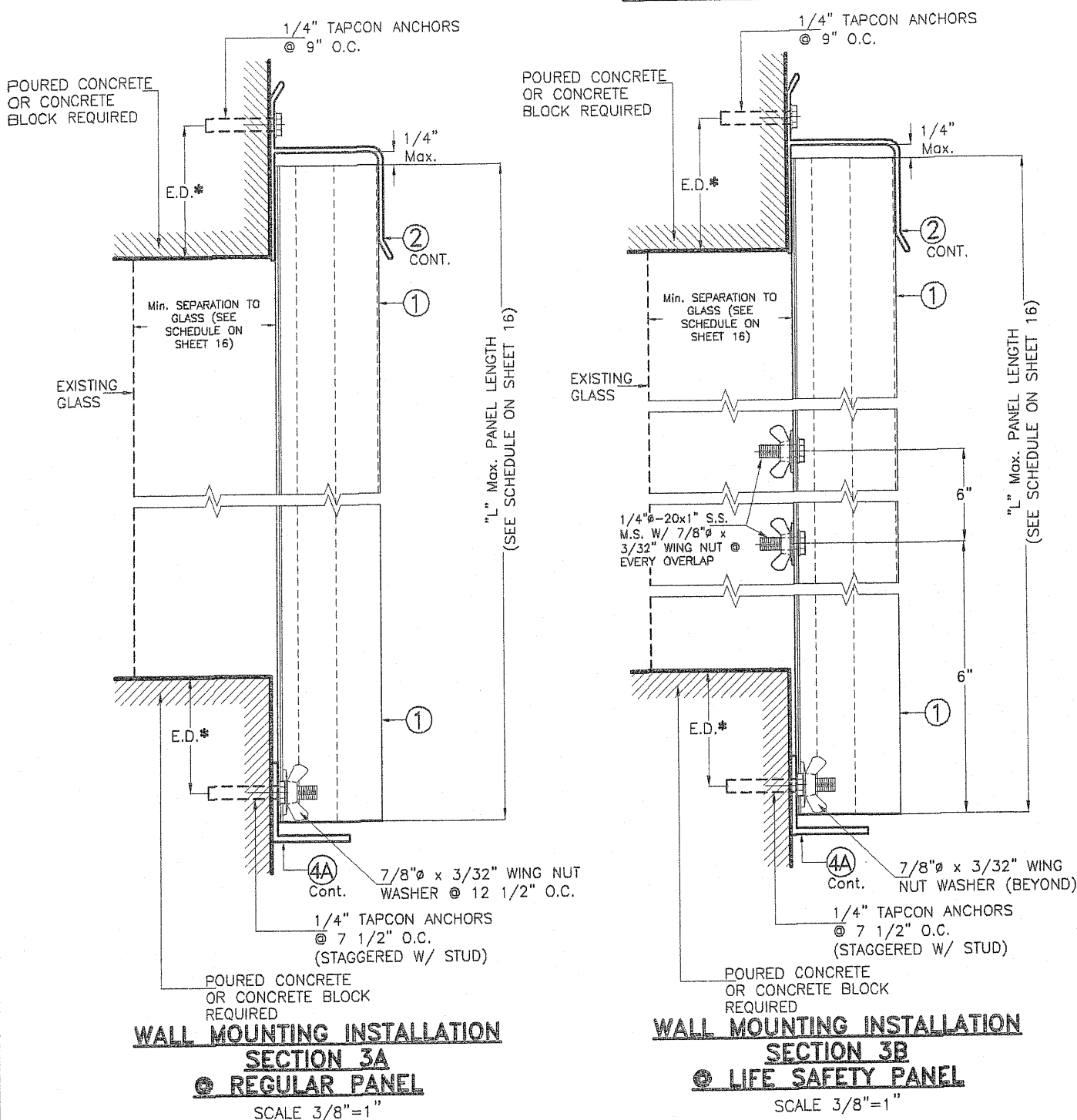


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EB-0006719
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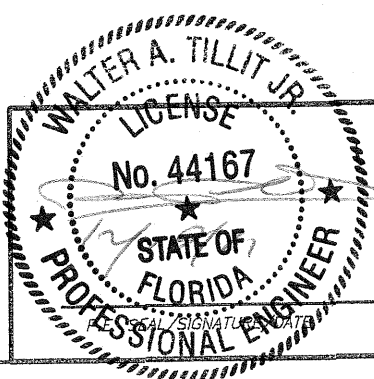
LIFE SAFETY STORM PANEL SYSTEM™ (20 GAGE GALVANIZED STEEL STORM PANEL)						M.C.V./R.E./A.G. DRAWN BY:
GLOBAL PROTECTION PRODUCTS, LLC.						12/05/11 DATE:
4800 S.W. 51 STREET DAVIE, FL 33314 PHONE: (954)689-7545, FAX: (954)689-8797						11-213 DRAWING No:
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 16 OF 26
1	OLD 08-237	12/05/11	3	-	-	
2	-	-	4	-	-	

INSTALLATION DETAILS FOR OPTION #2 FOR LIFE SAFETY STORM PANEL SYSTEM
INTO EXISTING POURED CONCRETE OR CONCRETE BLOCK STRUCTURES



SEE SHEET 19 & 20 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDING. MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE FOR E.D. LESS THAN INDICATED ON SCHEDULE 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 ON THIS SCHEDULE

ANCHOR TYPE		1/4"Ø
Min. ANCHOR SPACING (in.)		3
*EDGE DISTANCE (E.D. Min.)	Concrete (in.)	3
	Concrete Block (in.)	3
ACTUAL E.D. (EDGE DISTANCE)		FACTOR
1 1/2"		.35
2 1/2"		—
3"		1.00
3 1/2"		—



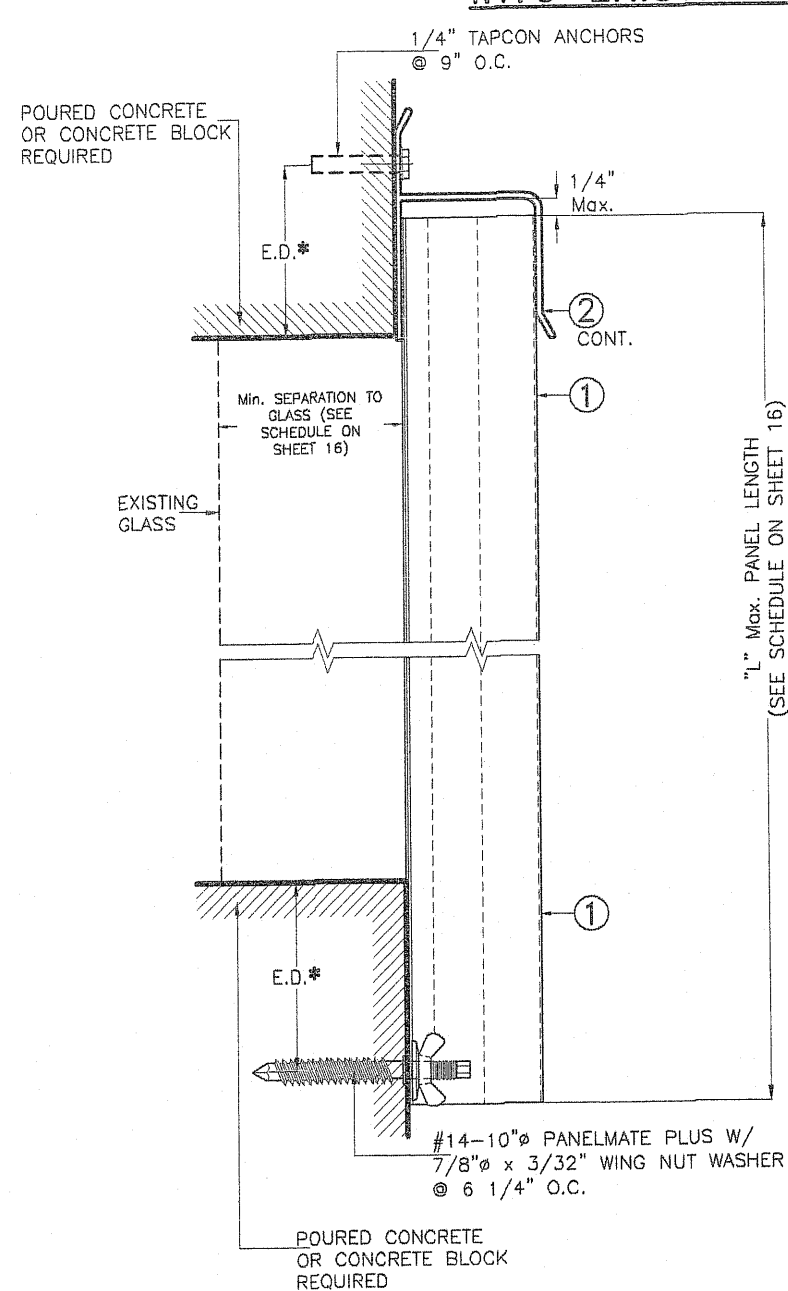
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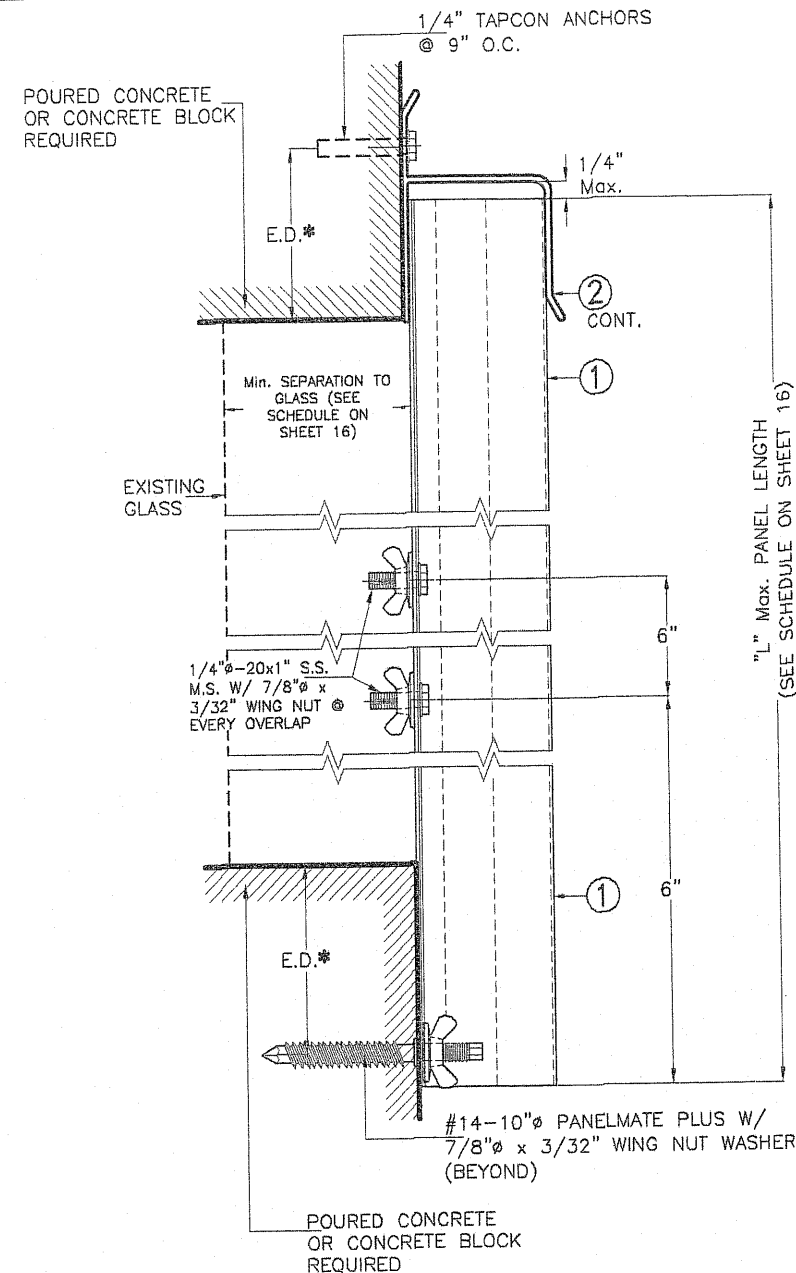
LIFE SAFETY STORM PANEL SYSTEM™ (20 GAGE GALVANIZED STEEL STORM PANEL)			M.C.V./R.E./A.G. DRAWN BY:		
GLOBAL PROTECTION PRODUCTS, LLC.			12/05/11 DATE:		
4800 S.W. 51 STREET DAVIE, FL 33314 PHONE: (954) 689-7545, FAX: (954) 689-8797			11-213 DRAWING No:		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	—	—	4	—	—

SHEET 17 OF 26

INSTALLATION DETAILS FOR OPTION #2 FOR LIFE SAFETY STORM PANEL SYSTEM INTO EXISTING POURED CONCRETE OR CONCRETE BLOCK STRUCTURES



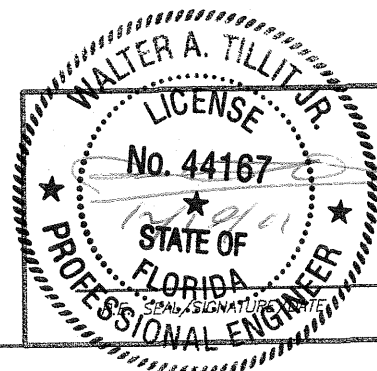
WALL MOUNTING INSTALLATION
SECTION 5A
REGULAR PANEL
SCALE 3/8"=1"



WALL MOUNTING INSTALLATION
SECTION 5B
LIFE SAFETY PANEL
SCALE 3/8"=1"

SEE SHEET 19 & 20 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDING. MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS SCHEDULE FOR E.D. LESS THAN INDICATED ON SCHEDULE. 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 ON THIS SCHEDULE

ANCHOR TYPE		1/4"Ø	1/4"Ø
		TAPCON	PANELMATE PLUS
Min. ANCHOR SPACING (in.)		3	3
*EDGE DISTANCE (E.D. Min.)	Concrete (in.)	3	3
	Concrete Block (in.)	3	3 1/2
ACTUAL E.D. (EDGE DISTANCE)		FACTOR	
1 1/2"		.35	
2 1/2"		-	
3"		1.00	
3 1/2"		-	



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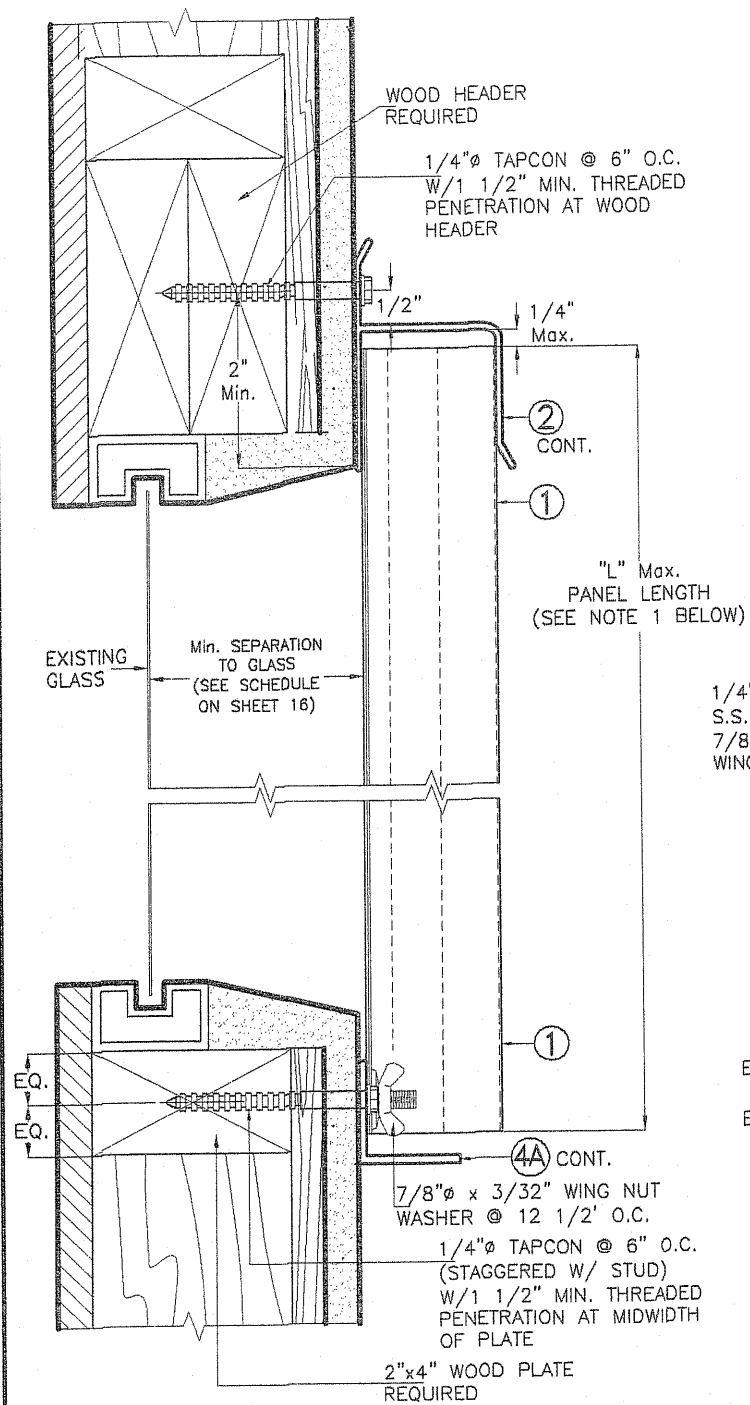
TILLIT TESTING & ENGINEERING COMPANY
6355 W.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33168
Phone: (305) 871-1530, Fax: (305) 871-1531

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

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

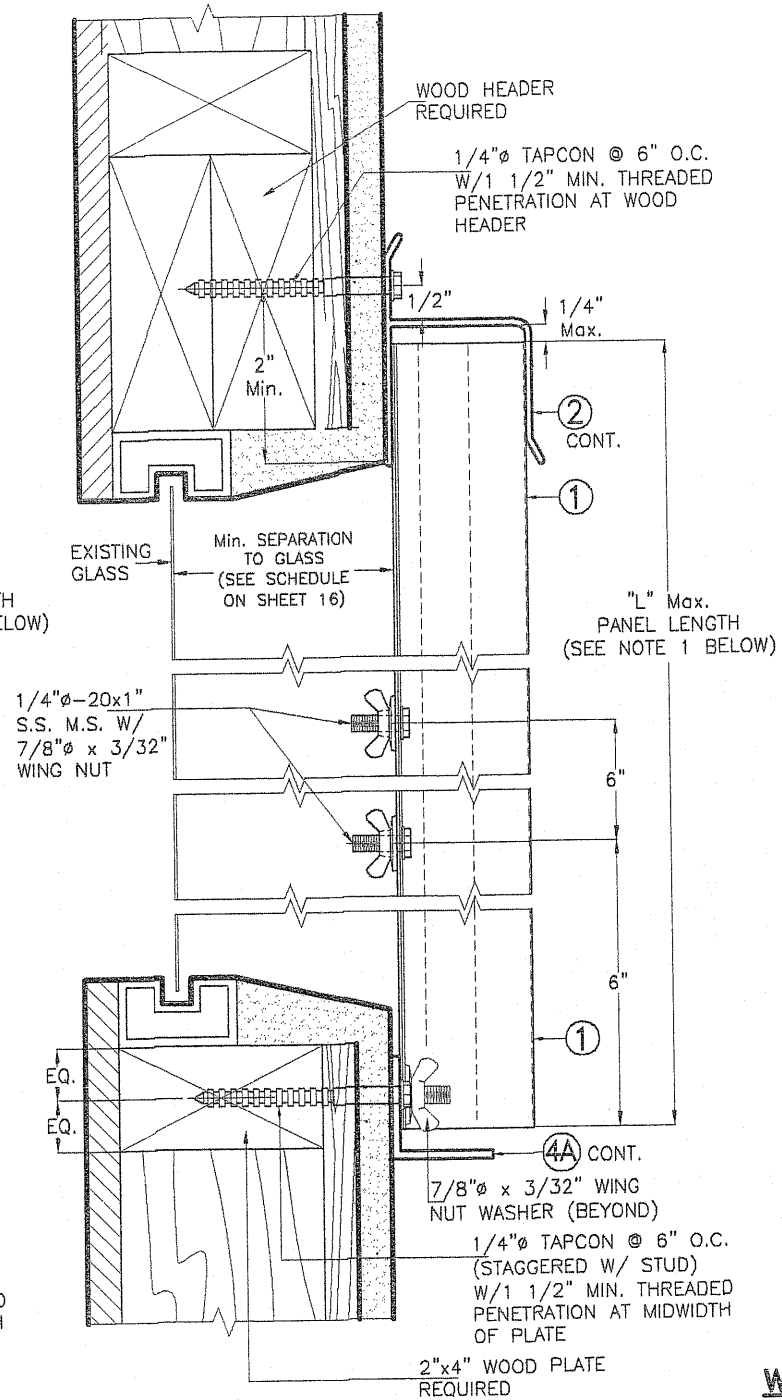
LIFE SAFETY STORM PANEL SYSTEM™ (20 GAGE GALVANIZED STEEL STORM PANEL)					M.C.V./R.E./A.G.
GLOBAL PROTECTION PRODUCTS, LLC.					DRAWN BY:
4800 S.W. 51 STREET DAVIE, FL 33314 PHONE: (954)689-7545, FAX: (954)689-8797					12/05/11 DATE:
REV. No. DESCRIPTION DATE REV. No. DESCRIPTION DATE					11-213 DRAWING No:
1	OLD 08-237	12/05/11	3	-	-
2	-	-	4	-	-
					SHEET 18 OF 26

INSTALLATION DETAILS FOR OPTION #2 FOR LIFE SAFETY STORM PANEL SYSTEM INTO EXISTING WOOD STRUCTURES



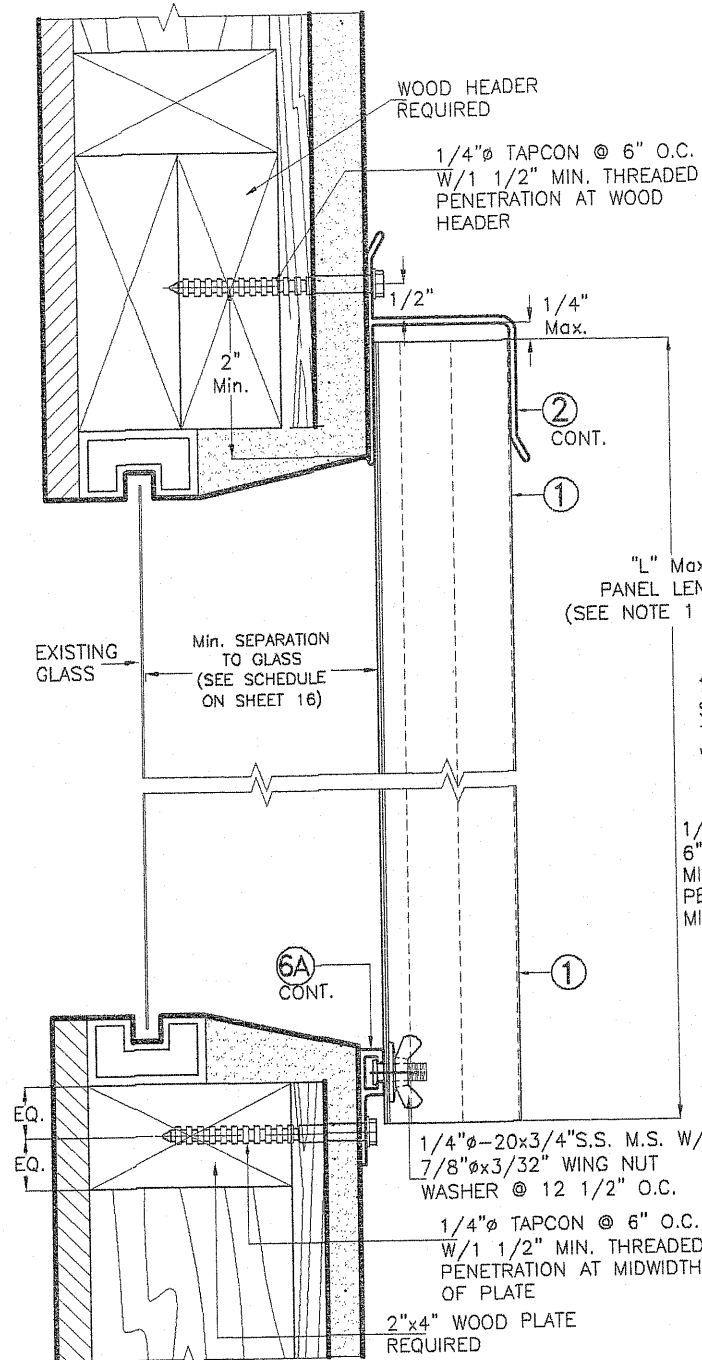
WALL MOUNTING INSTALLATION
ALTERNATIVE 6AW
⊙ REGULAR PANEL

SCALE $3/8"=1'$



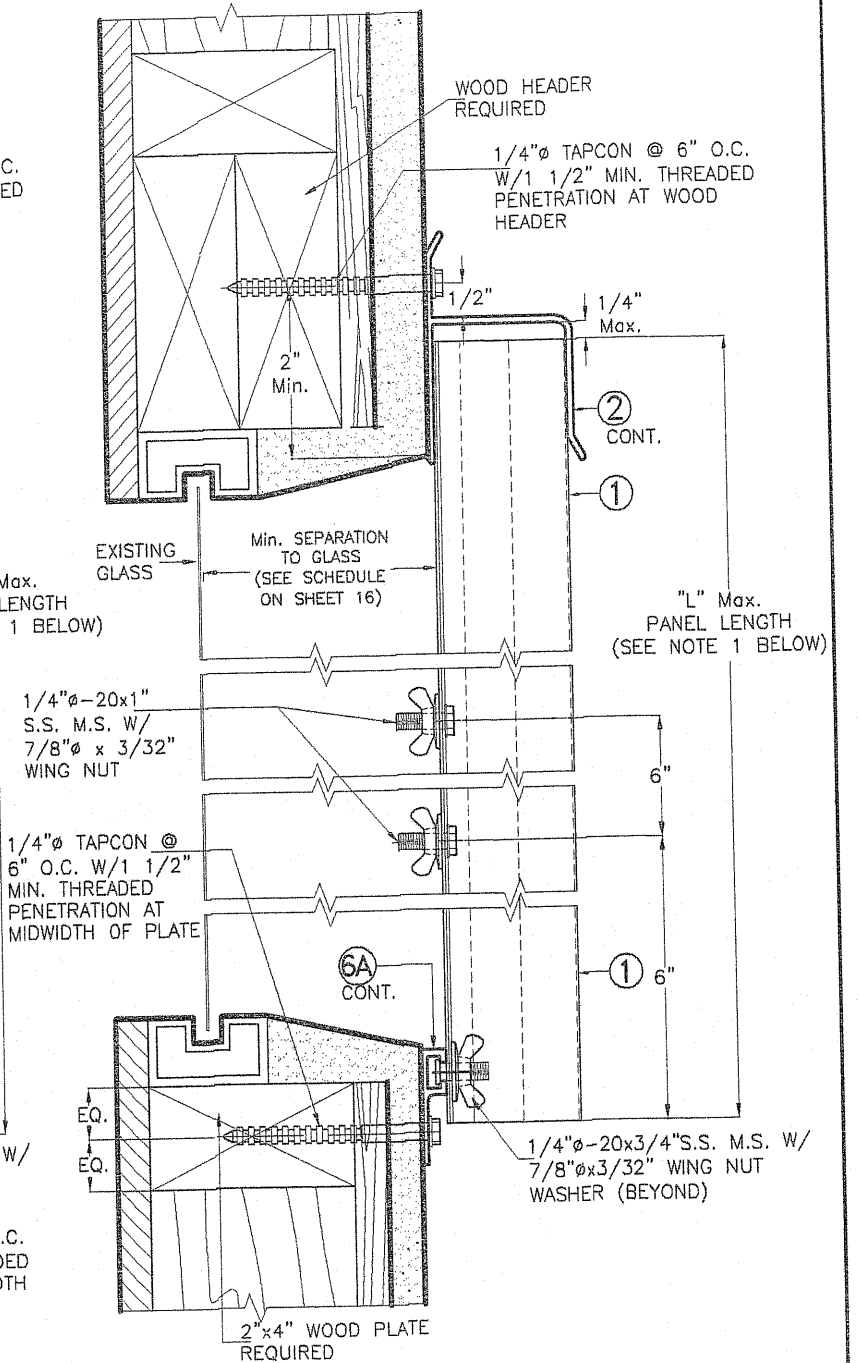
WALL MOUNTING INSTALLATION
ALTERNATIVE 6BW
© LIFE SAFETY PANEL

SCALE $3/8"=1"$



WALL MOUNTING INSTALLATION
ALTERNATIVE 7AW @ REGULAR PANEL

SCALE 3/8"=1"

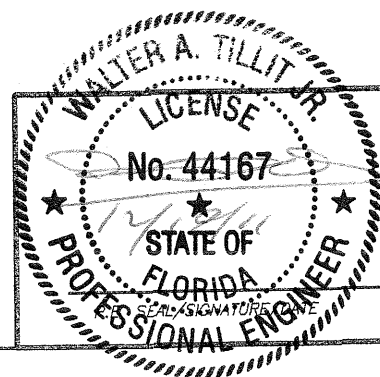


WALL MOUNTING INSTALLATION
ALTERNATIVE 7BW
● LIFE SAFETY PANEL

SCALE $3/8"=1"$

NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR BUILDINGS WITH A.S.D. DESIGN LOADS UP TO +55.5, -72.0 PSF AND PANEL'S LENGTH UP TO 8'-8".
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE NO. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



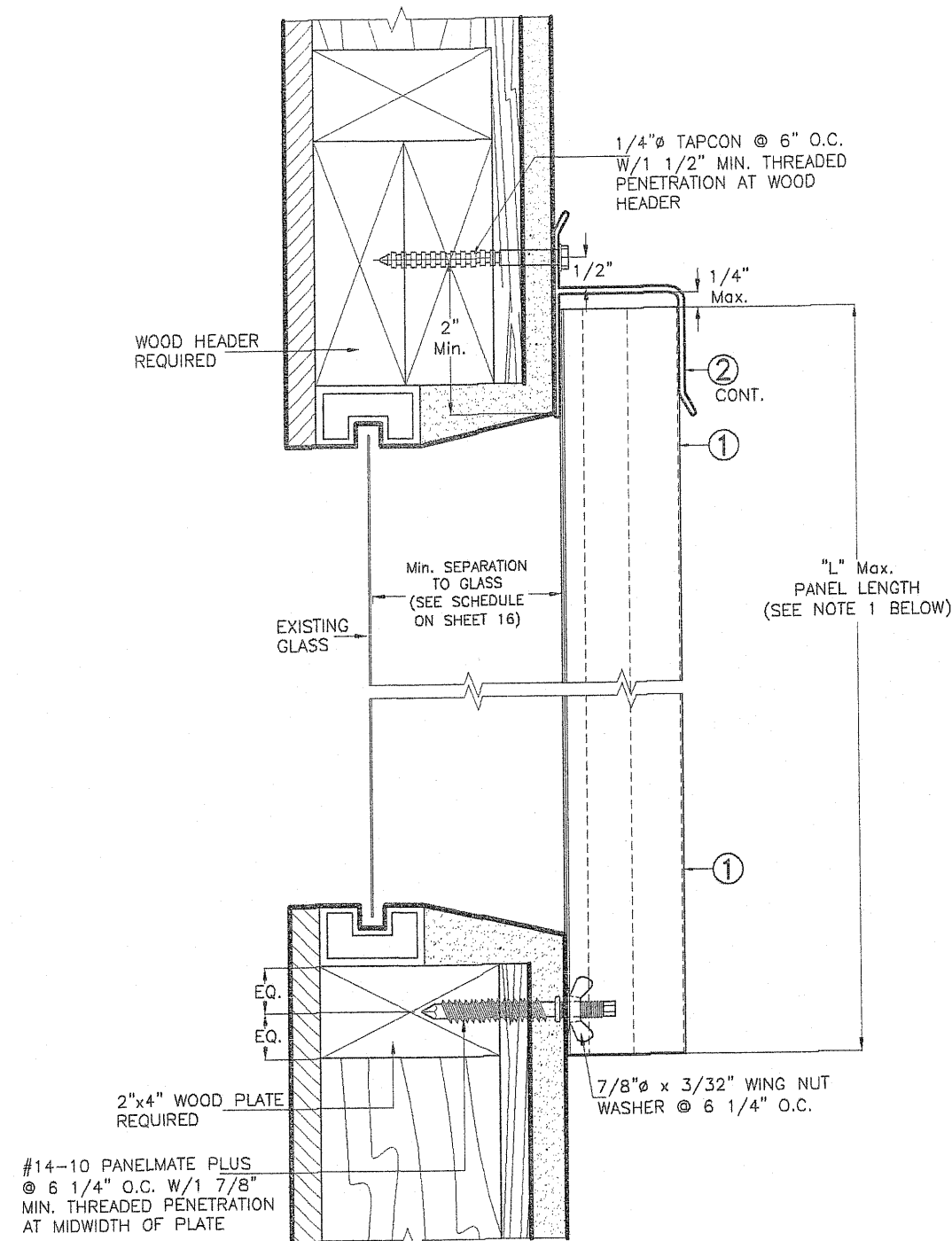
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TILLIT TESTING & ENGINEERING COMPANY
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Phone : (305) 871-1530. Fax : (305) 871-1531
EB-0006719
WALTER A. TILLIT JR., P.E.
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FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

LIFE SAFETY STORM PANEL SYSTEM™ (20 GAGE GALVANIZED STEEL STORM PANEL)						M.C.V./R.E./A.G. DRAWN BY:
GLOBAL PROTECTION PRODUCTS, LLC. 4800 S.W. 51 STREET DAVIE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797						12/05/11 DATE:
						11-213 DRAWING No:
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 19 OF 26
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2	-	-	4	-	-	

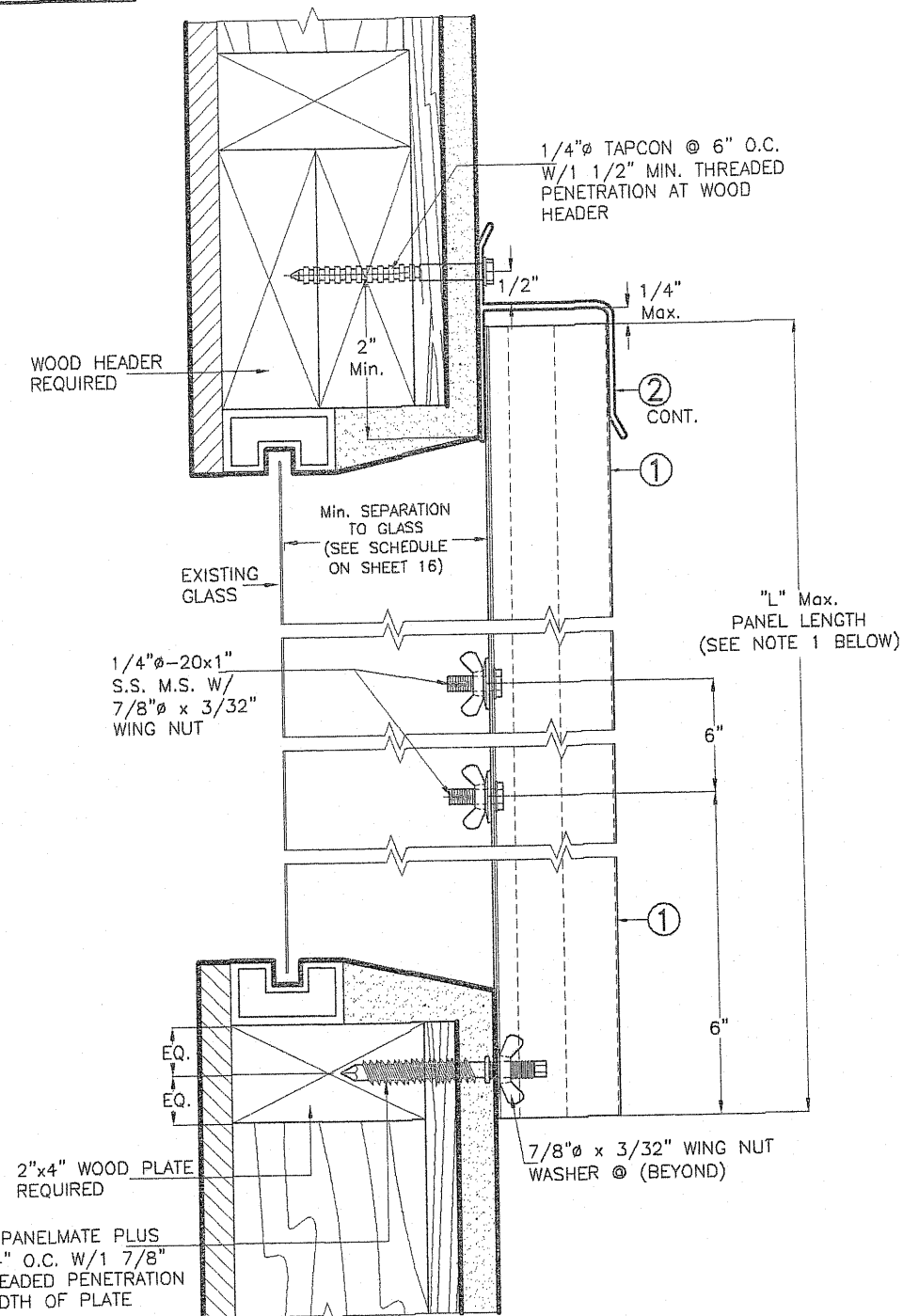
INSTALLATION DETAILS FOR OPTION #2 FOR LIFE SAFETY STORM PANEL SYSTEM INTO EXISTING WOOD STRUCTURES



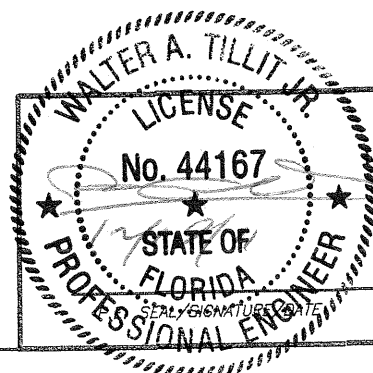
**WALL MOUNTING INSTALLATION
ALTERNATIVE 8AW
● REGULAR PANEL**
SCALE 3/8"=1"

NOTES:

1. INSTALLATIONS ARE ONLY VALID FOR BUILDINGS WITH A.S.D. DESIGN LOADS UP TO +55.5, -72.0 PSF AND PANEL'S LENGTH UP TO 8'-8".
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE NO. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.



**WALL MOUNTING INSTALLATION
ALTERNATIVE 8BW
● LIFE SAFETY PANEL**
SCALE 3/8"=1"



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2	-	-	4	-	-																		
					SHEET 20 OF 26																		

GENERAL NOTES: VALID E-Z HANG STORM PANEL SYSTEM

1. E-Z HANG STORM PANEL SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2010 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 $K_d=0.85$. USING ASCE 7-10 FOR INSTALLATIONS UNDER 2010 FBC AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 25 & 26.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-10 SHALL BE FIRST REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO TO COMPARE THESE W/ MAX. (A.S.D) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 25 & 26.

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. FASTENERS SPACING TO WOOD HAS BEEN DETERMINED IN ACCORDANCE WITH N.D.S. 2005.

STORM PANEL'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1626 OF THE ABOVE MENTIONED CODE AS PER FENESTRATION TESTING LABORATORY, INC. REPORT # 2032, AS PROTOCOLS TAS-201, TAS-202 AND TAS-203.

2. THIS SYSTEM HAS BEEN DESIGNED TO BE INSTALLED ON THE OUTSIDE OF THE OPENING ACCESSING THE OPENING FROM THE INSIDE W/O THE USE OF A LADDER OR LIFT. THIS APPLICATION IS VALID WHEN INSTALLATION IS INTENDED TO BE PERFORMED FROM THE INSIDE OF STRUCTURE.

3. SERIES 1000 INSTALLATION IS APPLICABLE TO SINGLE AND DOUBLE HUNG STYLE WINDOWS WHEN INSTALLATION IS REQUIRED TO BE PERFORMED FROM THE INSIDE OF STRUCTURE.

4. SERIES 2000 INSTALLATION IS APPLICABLE TO SINGLE AND DOUBLE HUNG AND HORIZONTAL SLIDERS STYLE WINDOWS WHEN INSTALLATION IS REQUIRED TO BE PERFORMED FROM THE INSIDE OF STRUCTURE.

5. ALL ALUMINUM EXTRUSIONS TO BE 6063-T6 ALLOY AND TEMPER. (UNLESS OTHERWISE NOTED)

6. ALL ALUMINUM SHEET METAL USED AT CLOSURES SHALL HAVE 3105-H14 ALLOY.

7. ALL STEEL SHEET METAL PANELS SHALL HAVE STRUCTURAL QUALITY STEEL, ASTM A-653 GRADE 50 Min., GALVANIZED STEEL DESIGNATION W/Fy= 58.5 ksi (AFTER ROLLED).

8. 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.

9. BOLTS TO BE ASTM A-307 GALVANIZED STEEL, OR AISI 304 SERIES STAINLESS STEEL, WITH 36 ksi MINIMUM YIELD STRENGTH.

10. ANCHORS TO WALL SHALL BE AS FOLLOWS:

(A) TO EXISTING POURED CONCRETE:

- 1/4" ϕ TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX, INC. (MIN. $f'_c=3192$ p.s.i.)
- 1/4" ϕ X 7/8" CALK-IN ANCHORS, AS MANUFACTURED BY POWERS FASTENERS INC. (MIN. $f'_c=3000$ p.s.i.)
- #14-10 PANELMATE FEMALE ID & PANELMATE PLUS ANCHORS, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS. ($f'_c=3350$ p.s.i.)

A.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO POURED CONCRETE SHALL BE 1 3/4" AND 2" FOR PANELMATE FEMALE ID & PANELMATE PLUS.

A.2) MINIMUM EMBEDMENT OF 1/4" ϕ X 7/8" CALK-IN ANCHORS SHALL BE IS 7/8" INTO CONCRETE. NO EMBEDMENT INTO ANY FINISH MATERIAL SHALL BE PERMITTED. 1/4" ϕ -20 SS SIDEWALK BOLTS USED SHALL BE LONG ENOUGH(SHOULD ANY FINISH MATERIAL EXIST) TO ENGAGE 3/4" INTO ANCHORS.

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 MENTINED IN A.1) AND IN A.2).

(B) TO EXISTING CONCRETE BLOCK WALL:

- 1/4" ϕ TAPCON ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX, INC.
- 1/4" ϕ X 7/8" CALK-IN ANCHORS, AS MANUFACTURED BY POWERS FASTENERS INC. ($f'_m=1500$ p.s.i.)
- #14-10 PANELMATE FEMALE ID AND PANELMATE PLUS ANCHORS, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS ($f'_m=2071$ p.s.i.)

B.1) MINIMUM EMBEDMENT OF TAPCON ANCHORS AND PANELMATE FEMALE ID & PANELMATE PLUS INTO CONCRETE BLOCK SHALL BE 1 1/4".

B.2) MINIMUM EMBEDMENT OF 1/4" ϕ X 7/8" CALK-IN ANCHORS SHALL BE IS 7/8" INTO CONCRETE. NO EMBEDMENT INTO ANY FINISH MATERIAL SHALL BE PERMITTED. 1/4" ϕ -20 SS SIDEWALK BOLTS USED SHALL BE LONG ENOUGH(SHOULD ANY FINISH MATERIAL EXIST) TO ENGAGE 3/4" INTO ANCHORS.

B.3) IN CASE THAT PRECAST STONE, OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS MENTIONED IN B.1) AND IN B.2).

(C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

11. 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.

12. 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.

13. 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.

14. ATRIUM WINDOWS AND DOORS, INC. E - Z HANG STORM PANEL SYSTEM™ IS **PATENT PENDING**.

15. (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.

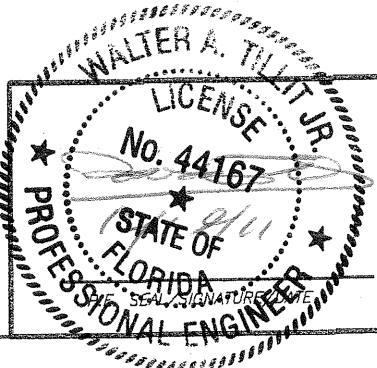
(b) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P.E.D. PROVIDED HE/SHE DOES NOT DEViate FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(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.

16. STORM PANEL MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT STORM PANEL IN ACCORDANCE WITH SECTION 1715.8.3 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1715.8.2 OF THE FLORIDA BUILDING CODE.



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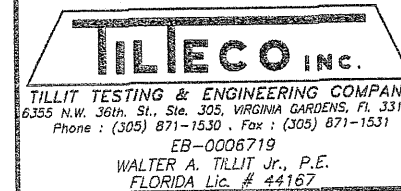
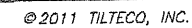
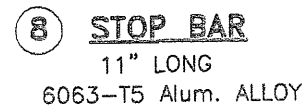
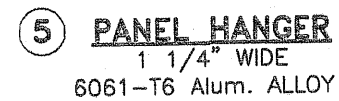
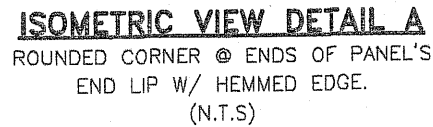
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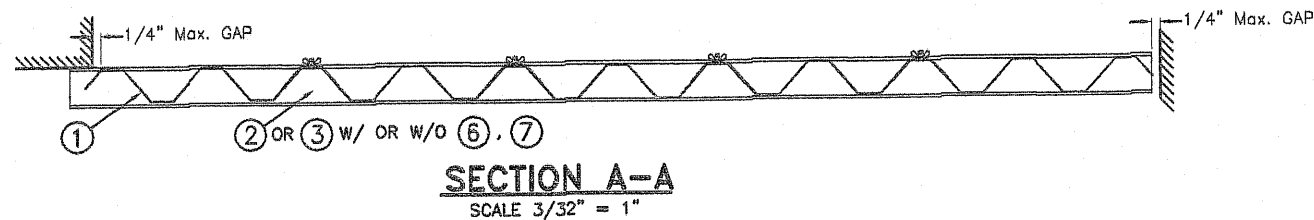
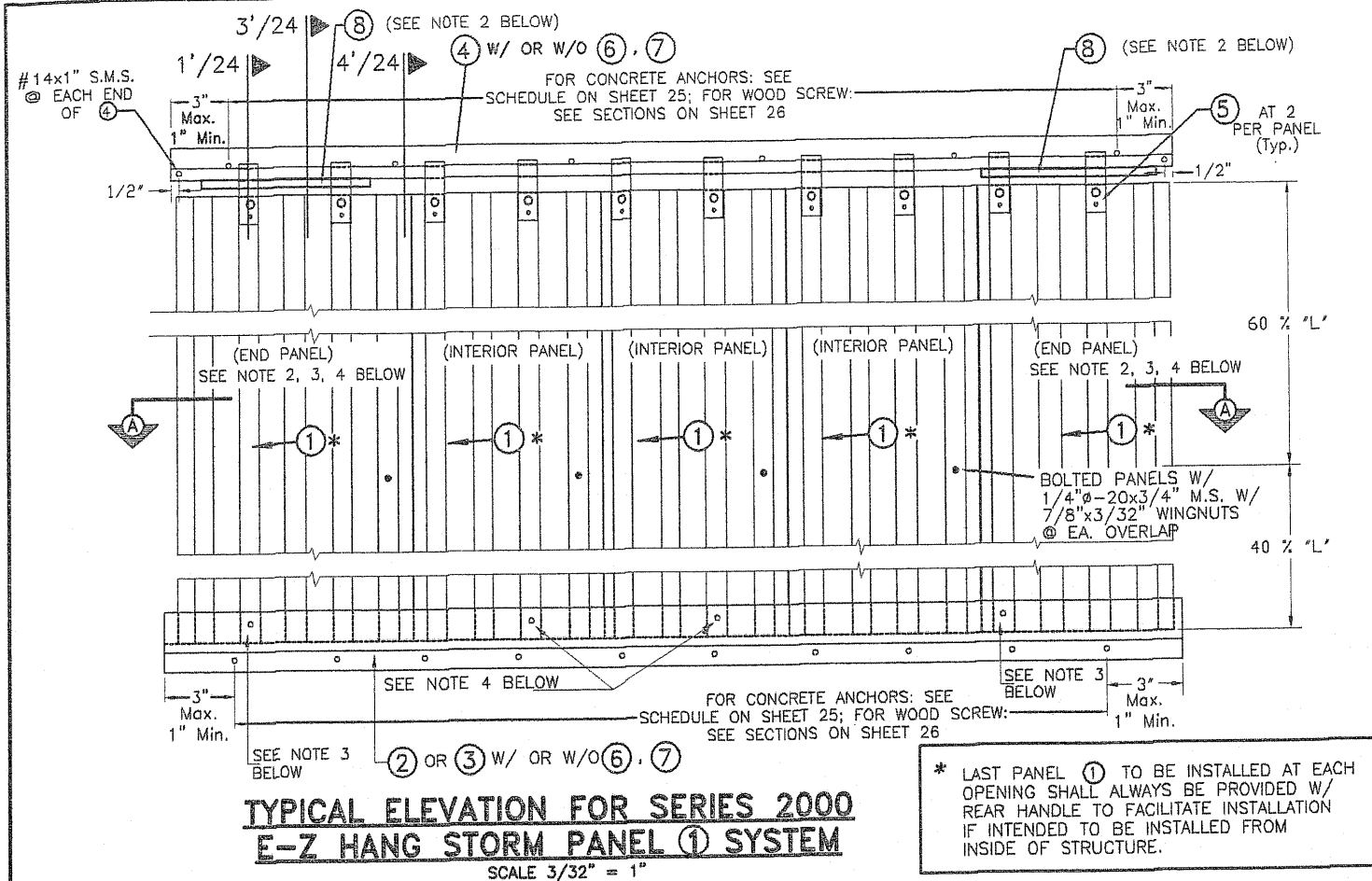
E-Z HANG STORM PANEL SYSTEM™ (20 GAGE GALVANIZED STEEL STORM PANEL)						M.C.V./R.E./A.G. DRAWN BY:	
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4800 S.W. 51 STREET DAVE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797						11-213 DRAWING No:	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 21 OF 26	
1	OLD 08-237	12/05/11	3	-	-		
2	-	-	4	-	-		

(SCALE 1/2"=1')



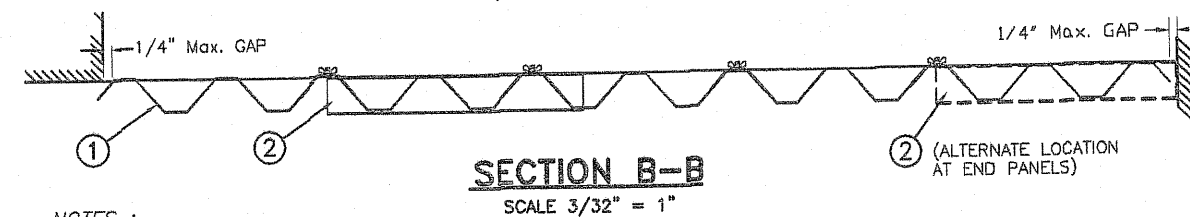
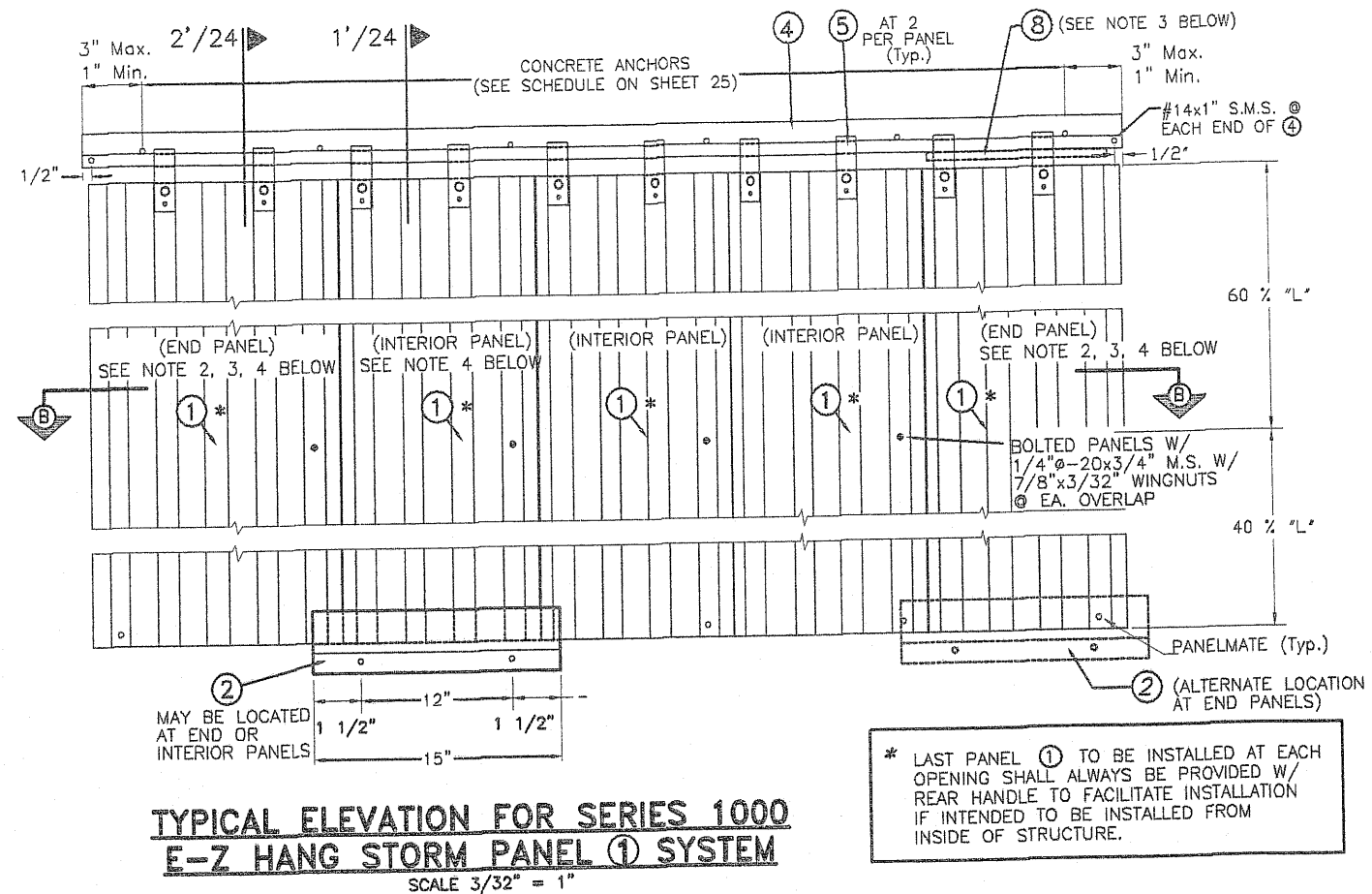
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						11-213 DRAWING No:	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 22 OF 26	
1	OLD 06-237	12/05/11	3	-	-		
2	-	-	4	-	-		
3	-	-	-	-	-		



NOTES:

- (1). DEFINITION OF SERIES 2000: E - Z HANG STORM PANEL SYSTEM CONSISTING OF PANEL + Cont. TRACKS TOP & BOTTOM.
- (2). END PANELS SHALL ALWAYS BE CONNECTED TO BOTTOM TRACK OTHERWISE A STOP BAR (8) SHALL BE PROVIDED AT TOP OF SUCH PANELS.
- (3). IF END PANELS ARE CONNECTED TO BOTTOM TRACK, CONNECTION SHALL CONSIST OF 1/4"φ-20x3/4" M.S. W/ 7/8"φx3/32" WING NUT OR 1/4"φx3/4" Min. THUMBSCREW INTO TAPPED BOTTOM TRACK. LOCATION OF FASTENERS MAY BE AT EITHER OF TWO EXTERIOR FLAT FLANGES OF END PANEL.
- (4). IN CASE THAT END PANELS ARE NOT CONNECTED TO BOTTOM TRACK (i.e. A STOP BAR IS ONLY USED AT TOP) AT LEAST TWO PANELS SHALL BE CONNECTED TO BOTTOM TRACK USING SPECS INDICATED ON NOTE (3) ABOVE. IN SUCH CASE, CONNECTION OF PANELS TO BOTTOM TRACK MAY OCCUR AT ANY PANEL LOCATION.
- (5). SEE SECTION 1', 3' & 4' ON SHEET 24. SEE ANCHOR SCHEDULE ON SHEET 25.



NOTES:

- (1). DEFINITION OF SERIES 1000: E - Z HANG STORM PANEL SYSTEM CONSISTING OF PANEL + Cont. TRACKS AT TOP & PANELMATE PLUS OR 15" LONG (2) AT BOTTOM W/ PANELMATES.
- (2). END PANELS SHALL ALWAYS BE CONNECTED TO EXISTING SILL WALL BY MEANS OF PANELMATES OR, IF USED JOINTLY W/ 15" LONG (2) TRACK AT BOTTOM, END PANELS SHALL BE CONNECTED TO (2) W/ 1/4"φ-20x3/4" M.S. W/ 7/8"φx3/32" WING NUT OR 1/4"φ-20x3/4" Min. THUMBSCREW INTO TAPPED (2) (EXCEPT AS DESCRIBED ON NOTE (3) BELOW).
- (3). FOR CASES WHEN END PANELS ARE USE JOINTLY W/ 15" LONG TRACK (2) AT BOTTOM BUT END PANELS ARE NOT CONNECTED TO BOTTOM TRACK (2), A STOP BAR (8) SHALL BE PROVIDED AT TOP OF SUCH PANELS.
- (4). FOR INSTALLATIONS WHEN END PANELS AND SOME INTERIOR PANELS ARE DIRECTLY MOUNTED TO EXISTING SILL WALL BY MEANS OF PANELMATES, ONE INTERIOR PANEL MAY BE USED JOINTLY W/ TRACK (2) AT BOTTOM ATTACHING BOTTOM TRACK TO WALL W/ TWO PANELMATES FOLLOWING SPACING SHOWN ON ELEVATION AND W/ A 3 1/2" Min. EDGE DISTANCE. FOR THIS CASE, INTERIOR PANEL USED JOINTLY W/ (2) DOES NOT NEED TO BE CONNECTED TO (2) BY ANY MEANS. TRACK (2) SHALL BE INSTALLED SUCH THAT ADJACENT PANELS (TO THE LEFT & RIGHT SIDE OF INTERIOR PANEL) HAVE THEIR OVERLAPS RETAINED BY (2).

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THEIR OVERLAPS RETAINED BY (2).

WALTER A. TILLIT JR.

LICENSE

No. 44167

STATE OF FLORIDA

PROFESSIONAL ENGINEER

SEAL SIGNATURE DATE

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TILTECO INC.

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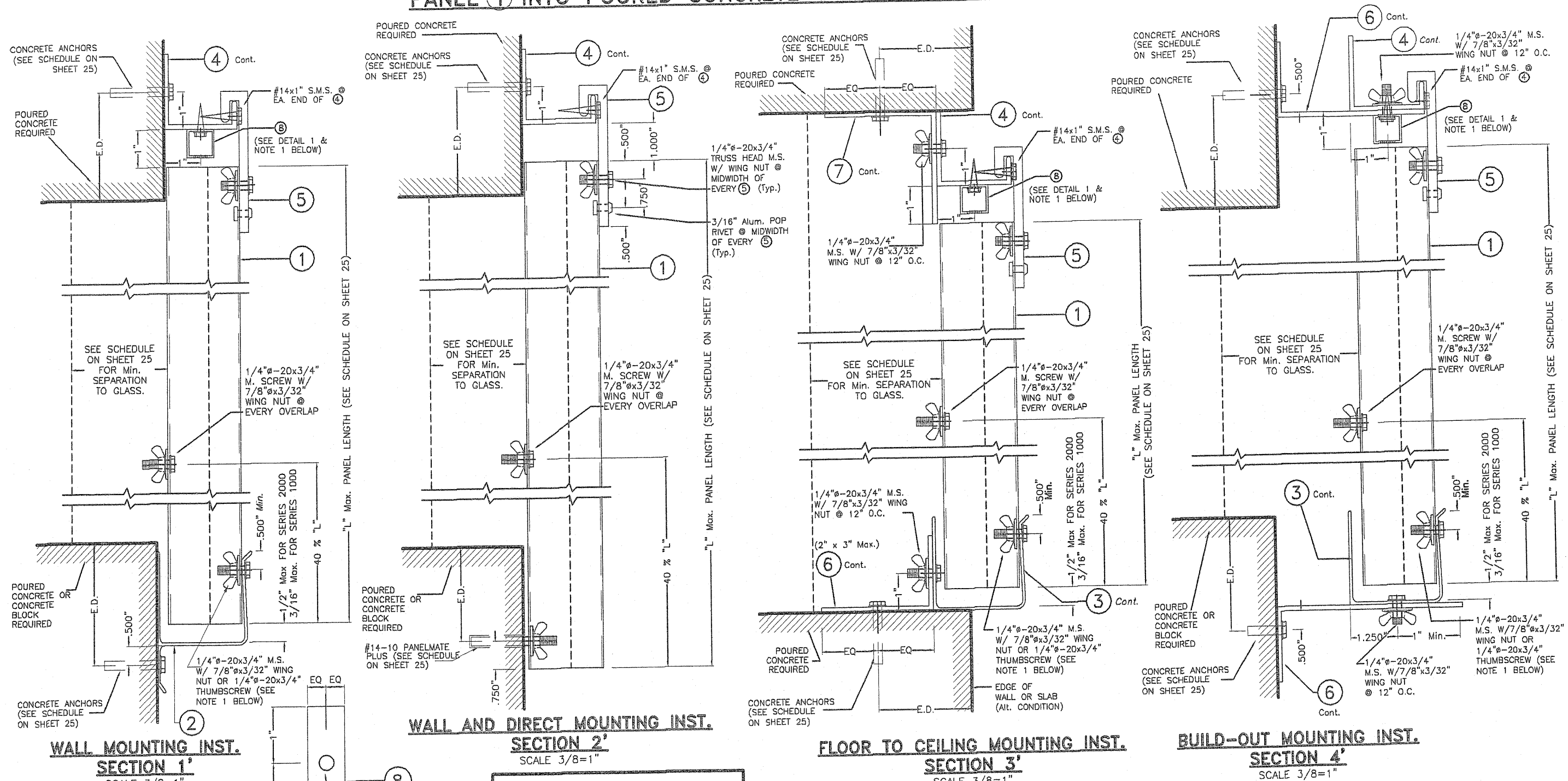
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M.C.V./R.E./A.G.
DRAWN BY:
12/05/11
DATE:
11-213
DRAWING No:
SHEET 23 OF 26

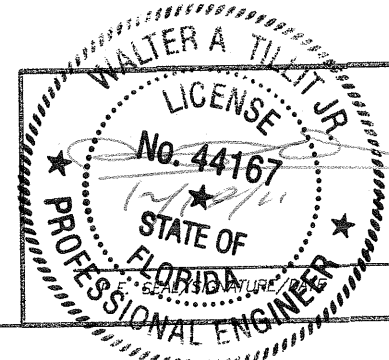
INSTALLATION DETAILS FOR SERIES 2000 AND 1000 E-Z HANG STORM PANEL ① INTO POURED CONCRETE OR CONCRETE BLOCK



NOTE 1:
 SEE SPECIFICATIONS AND REQUIREMENTS FOR USE OF STOP BAR ⑧ AT TOP AS WELL AS PANEL ① CONNECTION TO TRACKS ② OR ③ AT BOTTOM, BASED ON 1000 OR 2000 SERIES INSTALLATION TYPE ON SHEET 23.

NOTE FOR COMBINATION OF SECTIONS:
 TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.

E.D. = EDGE DISTANCE
 (SEE SCHEDULE ON SHEET 25)



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TILTECO INC.

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EB-0006719
 WALTER A. TILLIT JR., P.E.
 FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (High Velocity Hurricane Zone)

E-Z HANG STORM PANEL SYSTEM™ (20 GAGE GALVANIZED STEEL STORM PANEL)		M.C.V./R.E./A.G. DRAWN BY:
GLOBAL PROTECTION PRODUCTS, LLC.		12/05/11 DATE:
4800 S.W. 51 STREET DAVE, FL. 33314 PHONE: (954) 689-7545, FAX: (954) 689-8797		11-213 DRAWING No:
REV. No	DESCRIPTION	DATE
1	OLD 08-237	12/05/11
2	-	-

SHEET 24 OF 26

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND
CORRESPONDING MAXIMUM PANEL LENGTH "L" SCHEDULE
FOR SERIES 1000/2000 E-Z HANG STORM PANEL ① SYSTEM

(VALID ONLY FOR PANEL INSTALLATIONS AS PER SECTIONS 1' THRU 4', SHEET 24).

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	Max. PANEL LENGTH "L" (in.) (SEE SECTIONS)	MINIMUM SEPARATION TO GLASS	PANEL CONDITION	APPLICABLE TO SECTIONS
+66.0, -75.3	70" OR LESS	2 9/16"	BOLTED *	1', 2', 3', 1"W, 2"W & 3"W
+66.0, -75.3	70" OR LESS	2 7/8"	BOLTED *	4' & 4"W

* BOLTED W/ 1/4"Ø-20x3/4" S.S. M.S. & WINGNUT AT OVERLAP & 40% OF PANEL LENGTH
MEASURED FROM BOTTOM OF PANEL.

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

(VALID ONLY FOR PANEL INSTALLATIONS AS PER SECTIONS 1' THRU 4', SHEET 24).

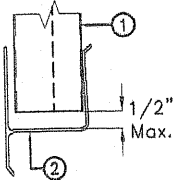
E. D. = EDGE DISTANCE

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **								APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (in.)
	TAPCONS		CALK-IN		PANELMATE FEMALE ID		PANELMATE PLUS			
	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK		
+66.0, -75.3	12"	N/A	12"	N/A	12"	N/A	12"	N/A	1' & 2' (TOP)	70" OR LESS
	11"	3 1/2"	10"	3"	5"	5"	5"	5"	1' (BOTTOM) SERIES 2000 +	
	12"	5 1/2"	12"	5"	8"	7 1/2"	8"	7 1/2"	1' (BOTTOM) SERIES 1000 ++	
	N/A	N/A	N/A	N/A	N/A	N/A	12 1/2"	12 1/2"	2' (BOTTOM)	
	7"	N/A	6 1/2"	N/A	4 1/2"	N/A	4 1/2"	N/A	3' (TOP)	
	12"	N/A	12"	N/A	9 1/2"	N/A	9 1/2"	N/A	3' (BOTTOM)	
	12"	N/A	12"	N/A	12"	N/A	12"	N/A	4' (TOP)	
	12"	8"	12"	9 1/2"	12"	12"	12"	12"	4' (BOTTOM)	

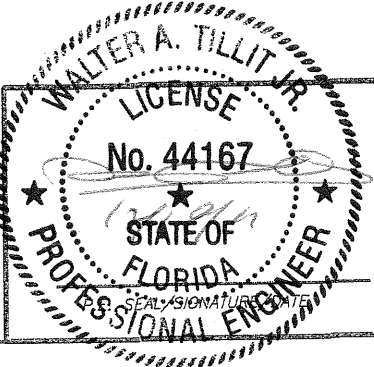
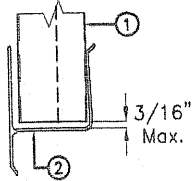
Δ SEE SHEET 26 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD
FRAME BUILDING.
MINIMUM ANCHOR SPACINGS AND MINIMUM EDGE DISTANCE ARE INDICATED ON THIS
SCHEDULE. FOR E.D. LESS THAN INDICATED ON SCHEDULE REDUCE ANCHOR SPACING
BY MULTIPLYING SPACING SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS. FOR
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.

ANCHOR TYPE		1/4"Ø	1/4"Ø	1/4"Ø	1/4"Ø
		TAPCON	PANELMATE FEMALE ID	PANELMATE PLUS	CALK-IN
Min. ANCHOR SPACING (in.)		3	3	3	2 1/2
EDGE DISTANCE (E.D. Min.)	Concrete (in.)	3	3	3	3
	Concrete Block (in.)	3	3 1/2	3 1/2	4
ACTUAL E.D. (EDGE DISTANCE)		FACTOR			
1 1/2"		.35	-	-	-
2 1/2"		-	-	-	.50
3"		1.00	-	1.00	.63
3 1/2"		-	1.00	-	1.00

+ REQUIRES Max. DISTANCE BETWEEN BOTTOM OF PANEL
AND ② TO BE: 1/2"



++ REQUIRES Max. DISTANCE BETWEEN BOTTOM OF PANEL
AND ② TO BE: 3/16"

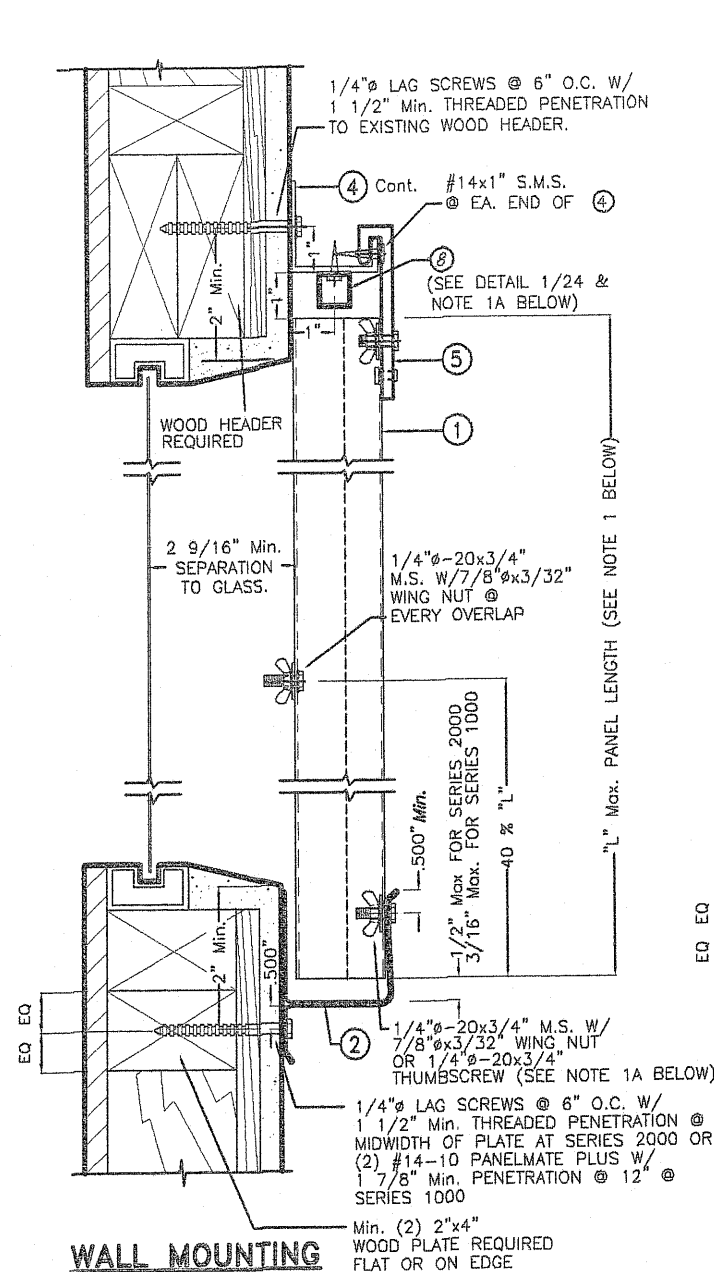


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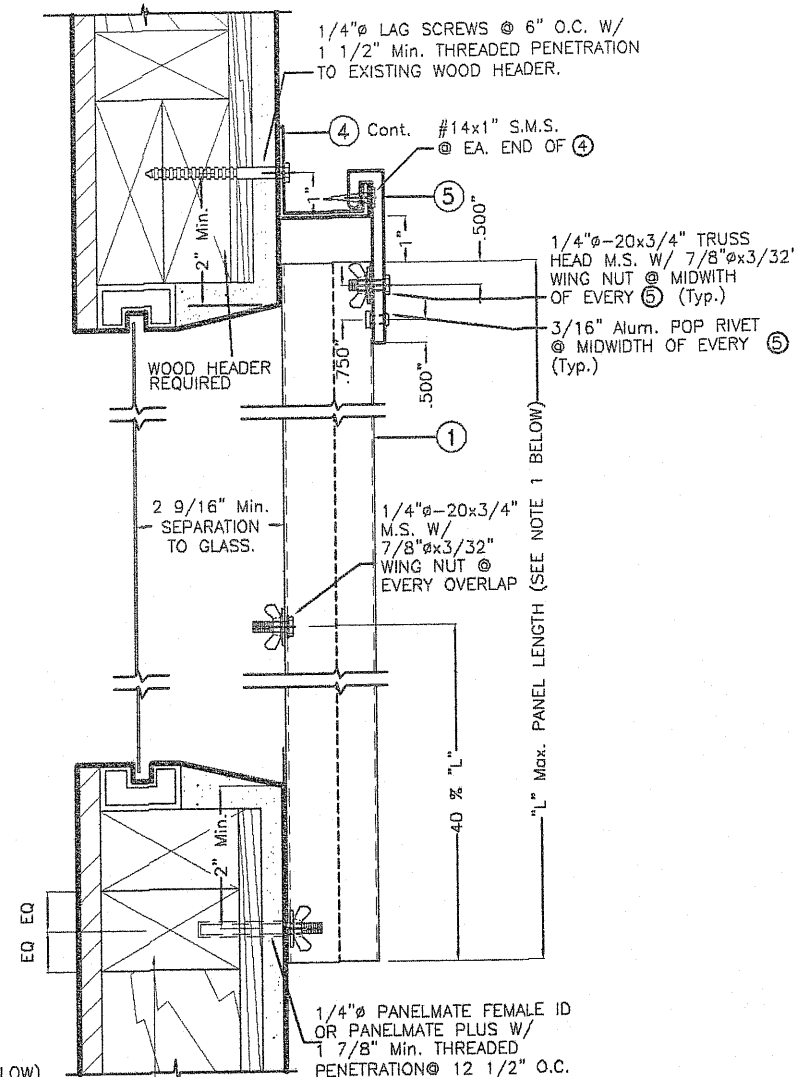
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4800 S.W. 51 STREET DAVIE, FL. 33314 PHONE: (954)689-7545, FAX: (954)689-8797					11-213 DRAWING No:
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2	-	-	4	-	-
					SHEET 25 OF 26

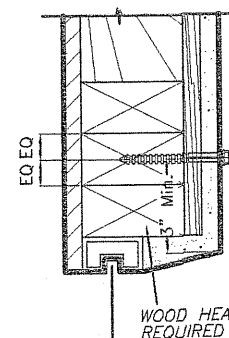
INSTALLATION DETAILS FOR SERIES 2000 & 1000 E-Z HANG STORM PANEL ① INTO EXISTING WOOD STRUCTURES



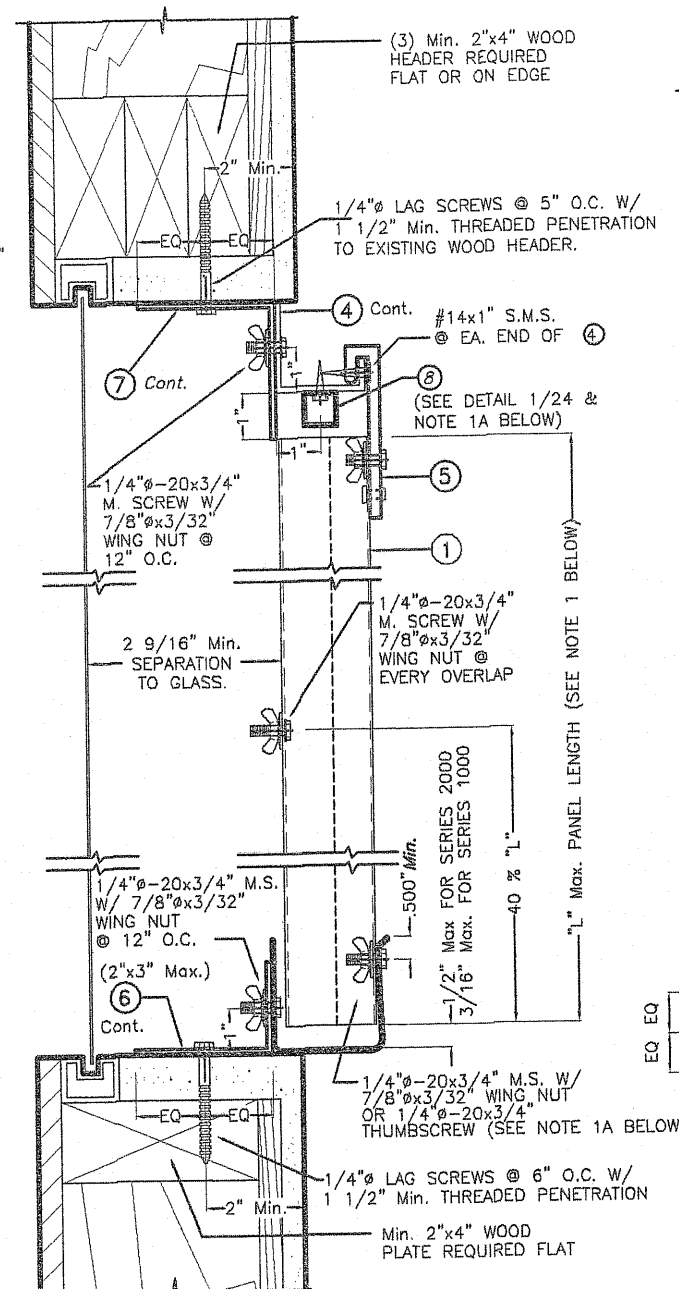
**WALL MOUNTING
 INSTALLATION
 ALTERNATIVE 1'W**
 SCALE 1/4"=1"



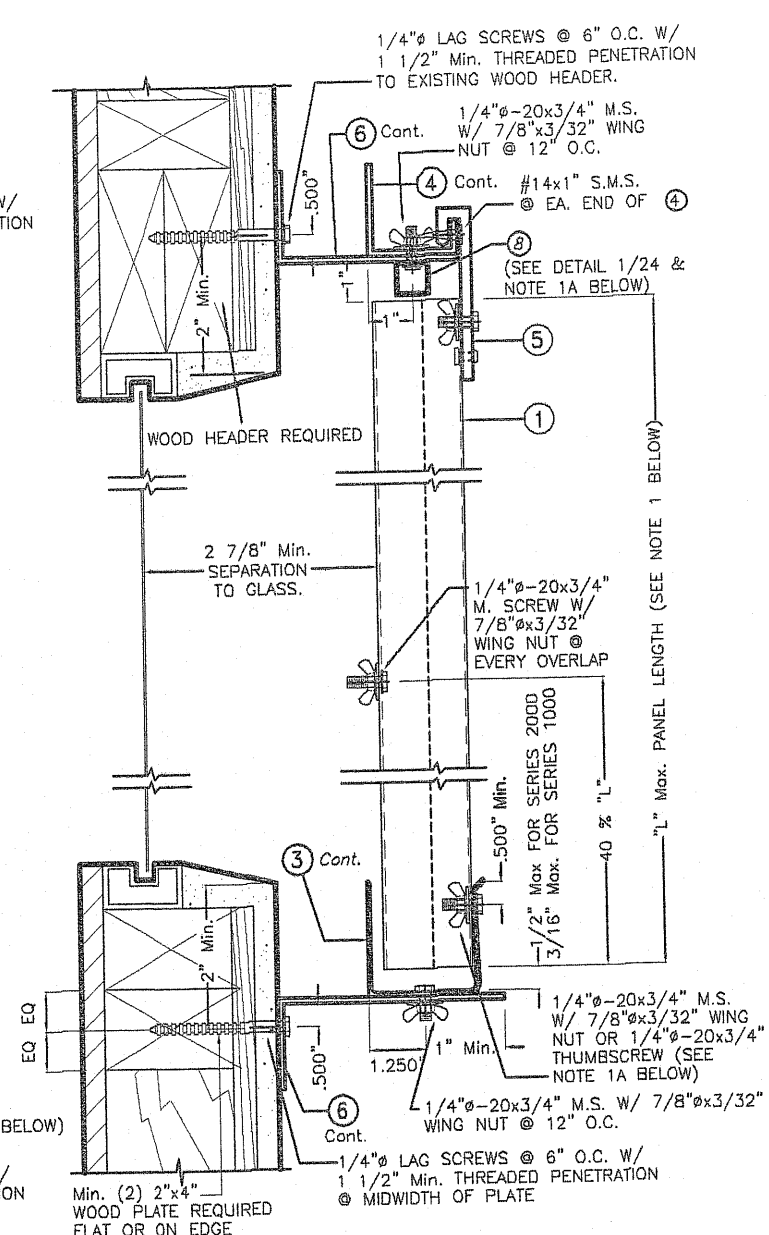
**WALL MOUNTING
 INSTALLATION
 ALTERNATIVE 2'W**
 SCALE 1/4"=1"



**ALTERNATIVE TOP HEADER WOOD FRAME
 CONDITION & ANCHOR LOCATION**
 SCALE: 1/4" = 1"
 NOTE: SHUTTER TRACKS NOT SHOWN FOR CLARITY



**FLOOR TO CEILING MOUNTING
 INSTALLATION
 ALTERNATIVE 3'W**
 SCALE 1/4"=1"



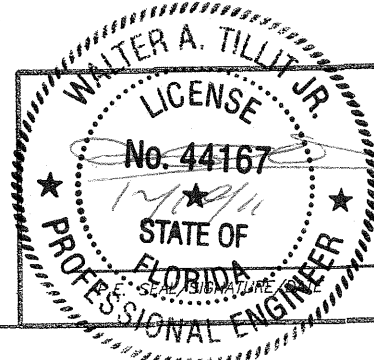
**BUILD-OUT MOUNTING
 INSTALLATION
 ALTERNATIVE 4'W**
 SCALE 1/4"=1"

- NOTES:**
1. INSTALLATIONS ARE ONLY VALID FOR BUILDINGS WITH A.S.D. DESIGN LOADS UP TO +66.0, -75.3 psf AND PANEL'S LENGTH UP TO 5'-10".
 2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

NOTE 1A:
 SEE SPECIFICATIONS AND REQUIREMENTS FOR USE OF STOP BAR ⑧ AT TOP AS WELL AS PANEL ① CONNECTION TO TRACKS ② OR ③ AT BOTTOM, BASED ON 1000 OR 2000 SERIES INSTALLATION TYPE ON SHEET 23.

NOTE FOR COMBINATION OF SECTIONS:

TOP & BOTTOM MOUNTINGS CAN BE COMBINED IN ANY WAY TO SUIT ANY INSTALLATION.



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<table border="1"> <thead> <tr> <th>REV. No</th><th>DESCRIPTION</th><th>DATE</th><th>REV. No</th><th>DESCRIPTION</th><th>DATE</th></tr> </thead> <tbody> <tr> <td>1</td><td>OLD 08-237</td><td>12/05/11</td><td>3</td><td>-</td><td>-</td></tr> <tr> <td>2</td><td>-</td><td>-</td><td>4</td><td>-</td><td>-</td></tr> </tbody> </table>					REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 08-237	12/05/11	3	-	-	2	-	-	4	-	-	SHEET 26 OF 26
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