

GENERAL NOTES:

1. TITAN II FOLDING IMPACT PROTECTIVE SYSTEM SHOWN ON THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2026 (9th EDITION) OF THE FLORIDA BUILDING CODE. THIS FOLDING IMPACT PROTECTIVE SYSTEM MAY BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (HVHZ) AND OUT OF THEM (NHVHZ).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTIONS 1620 (HVHZ) & 1609 (NHVHZ) OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED AS REQUIRED BY THE JURISDICTION WHERE THIS PRODUCT TO BE INSTALLED FOR A DIRECTIONALITY FACTOR Kd=0.85, USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM A.S.D. DESIGN PRESSURE RATING INDICATED ON SHEET 13.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESING 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 SHEET 13.

IN ORDER TO VERIFY THAT COMPONENTS & ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33 % INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. A DURATION FACTOR CD = 1.60 WAS USED FOR VERIFICATION OF FASTENERS IN WOOD,PER ANSI/AWC NDS-24.

FOLDING IMPACT PROTECTIVE SYSTEM ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTIONS 1626 & 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER TESTING PERFORMED AT HURRICANE ENGINEERING TESTING, INC. (H.E.T.I.), HURRICANE TESTING LABORATORY (H.T.L.) & AMERICAN TESTING LAB OF SOUTH FLORIDA AS PER PROTOCOLS TAS-201, TAS-202 AND TAS-203, AND AS PER SUBMITTED STRUCTURAL CALCULATIONS, PERFORMED AS PER SECTION 1616 & 1604 OF THE FLORIDA BUILDING CODE. IMPACT MISSILE IS 9Lb 2"x4", 50ft/Sec.

2. STAINLESS STEEL SHEET METAL SCREWS USED AT SLATS ① & ② SHALL BE # 10 x 3", 410-HT MINIMUM SERIES W/ 173.6 ksi YIELD STRENGTH & 187.4 ksi TENSILE STRENGTH. SCREWS SHALL BE COATED WITH XYLAN 5000 SERIES FLUOROPOLYMER COATING, AS MANUFACTURED BY WHITFORD Co, BOX 507. WEST CHESTER PA. 19381.

3. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION ALLOY AND TEMPER AS INDICATED ON SHEET 2. MINIMUM YIELD STRENGTH FOR 6063-T6 ALLOY AT SLATS SHALL BE Fy=25.9 ksi. 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 SERIES W/ 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT COATED CARBON STEEL ITW/BUILDEX TEK SCREWS AND SHALL COMPLY W/ FLORIDA BUILDING CODE SECTION 2411.3.3.4 & 1711. ALL ALUMINUM POP RIVETS TO BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.

5. BOLTS TO BE ASTM A-307 GALVANIZED STEEL, OR AISI 304 OR 316 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 ULTRACON+ OR 1/4" Ø ULTRACON SS4, AS MANUFACTURED DEWALT, INC. TO MIN. f'c=3192 psi.
- 1/4" Ø ELCO FEMALE PANELMATE, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

NOTES:

- A.1) MINIMUM EMBEDMENT OF 1/4" Ø ULTRACON+ OR ULTRACON SS4 ANCHORS INTO CONCRETE IS 1 3/4". MINIMUM EDGE DISTANCE (E.D.) SHALL BE AS PER SHEET 13.
- A.2) ELCO FEMALE PANEL MATE ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4 Ø-20 S.S SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST.
- A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL 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: ASTM C-90.

- 1/4" Ø ULTRACON+ OR ULTRACON SS4, AS MANUFACTURED BY DEWALT, INC.
- 1/4" Ø ELCO FEMALE PANEL MATE, AS MANUFACTURED BY ELCO CONSTRUCTION PRODUCTS.

NOTES:

- B.1) MINIMUM EMBEDMENT OF 1/4"Ø ULTRACON+ OR ULTRACON SS4 ANCHORS INTO CONCRETE BLOCK UNIT IS 1 1/4". MINIMUM EDGE DISTANCE (E.D.) SHALL BE AS PER SHEET 13.
- B.2) ELCO FEMALE PANEL MATE SET ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 S.S 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 BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES B.1 & B.2 ABOVE.

(C) TO EXISTING WOOD FRAME BUILDING: G=0.46 MIN.

- 1/4" Ø ULTRACON+ OR ULTRACON SS4, AS MANUFACTURED BY DEWALT, OR # 14 NDS WOOD SCREWS OR 1/4" Ø NDS LAG SCREWS GALVANIZED W/ 1000 hrs PER ASTM B-117.

NOTES:

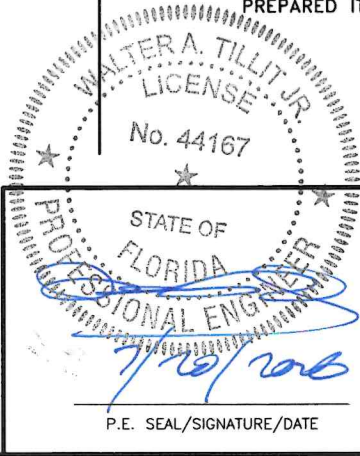
- C.1) MINIMUM THREADED PENETRATION OF 1/4" Ø ULTRACON+ OR ULTRACON SS4 OR #14 NDS WOOD SCREWS OR 1/4" Ø NDS LAG SCREWS INTO THE WOOD FRAME UNIT SHALL BE 1 1/2" FOR C1 THRU C4 AND C6 THRU C8 CONNECTION TYPE, AND 2" FOR C5, OR AS INDICATED ON WOOD SECTIONS ON SHEETS 10 THRU 12. NO THREADED PENETRATION INTO WALL FINISH SHALL BE CONSIDERED AS PART OF THE REQUIRED THREADED PENETRATION.
- C.2) MINIMUM EDGE DISTANCE OF 1/4" Ø ULTRACON+ OR ULTRACON SS4 OR #14 NDS WOOD SCREWS OR 1/4"Ø NDS LAG SCREWS INTO WOOD SHALL BE AS SHOWN ON SHEETS 10 THRU 12.
- C.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE OR BRICK PANELS, VENEER OR PAVERS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN SUBSTRATE BEHIND SUCH PANELS. MINIMUM THREADED PENETRATION SHALL BE AS INDICATED ON NOTE C.1 ABOVE.
- (D) TO EXISTING STEEL STRUCTURE: MIN. 12 GAGE, FY=33 KSI (MIN.) MATERIAL.
- 1/4" Ø ITW BUILDEX TEK SCREWS, W/ FULL THREAD PENETRATION. W/ SILVER CLIMASEAL COATING OR 410 STAINLESS STEEL.

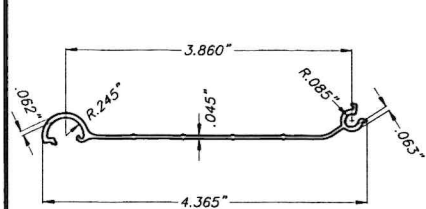
NOTES:

- D.1) MINIMUM EDGE DISTANCE OF ITW BUILDEX TEK SCREW 1".
7. ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR MANUFACTURER.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE PRODUCT IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. THIS SHUTTER SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAME BUILDINGS.
9. EACH UNIT MUST BEAR PERMANENT LABEL IN A VISIBLE PLACE WITH WARNING NOTE: DURING PERIODS OF HURRICANE WARNINGS HOME OWNER, TENANT, OR OTHERS, MUST PROPERLY CLOSE ALL CENTERPIECES AND ENGAGE OR LOCK ALL LOCKS.
10. PRODUCT MANUFACTURER'S LABEL SHALL BE LOCATED ON A READILY VISIBLE LOCATION AT PRODUCT IN ACCORDANCE WITH SECTION 1709.9.3 OF THE FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABELING TO COMPLY WITH SECTION 1709.9.2 OF THE FLORIDA BUILDING CODE.
11. FOLDING IMPACT PROTECTIVE SYSTEM'S INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE PERMIT IS APPLIED TO.
12. (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 PRODUCT EVALUATION DOCUMENT 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 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 THAT PREPARED IT.

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

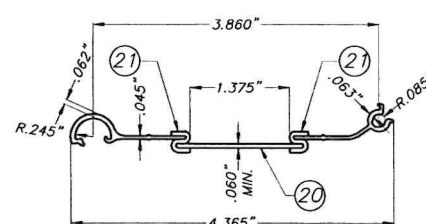
FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

 P.E. SEAL/SIGNATURE/DATE	© 2026 TILTECO INC. 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 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	TITAN II FOLDING IMPACT PROTECTIVE SYSTEM L.M.I FOLDING SHUTTER CORP. 1862 MARTIN LUTHER KING JR. BLYD WEST PALM BEACH, FL 33404 PH: 1800-643-6371 www.foldingshutters.com <table><tr><th>REV. No</th><th>DESCRIPTION</th><th>DATE</th><th>REV. No</th><th>DESCRIPTION</th><th>DATE</th></tr><tr><td>1</td><td>OLD 23-106</td><td>6/23/2026</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></table>	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	1	OLD 23-106	6/23/2026	3	-	-	2	-	-	4	-	-	DRAWN BY: W.H. 6/23/2026 DATE 26-056 DRAWING No SHEET 1 OF 13
	REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
1	OLD 23-106	6/23/2026	3	-	-																
2	-	-	4	-	-																



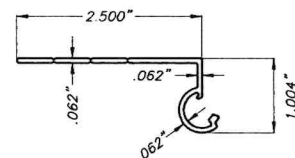
① SLAT

6063-T6 ALLOY
(TO BE USED FOR ALL INSTALLATIONS,
MAY INCLUDE PERFORATIONS AS PER
DETAIL ON SHEET 3)



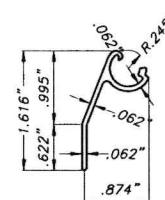
①A SLAT WINDOW

6063-T6 ALLOY
(TO BE USED ONLY FOR INSTALLATIONS
30 FEET OR HIGHER ABOVE GRADE
MEASURED AT BOTTOM OF OPENING
SEE COMPONENTS 20, 21 & 22 ON
SHEET 3.)



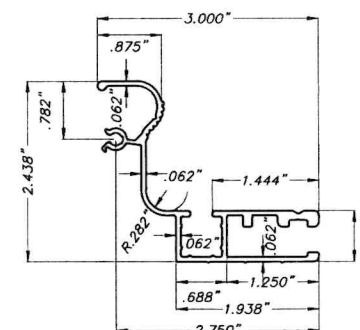
② L-END

6063-T5 ALLOY



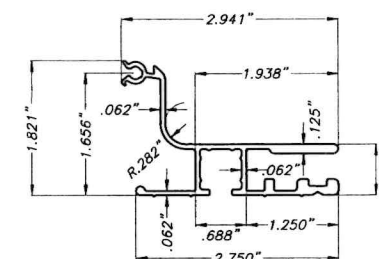
③ FLAT END

6063-T5 ALLOY



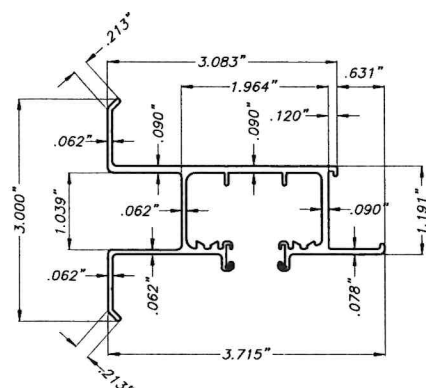
④ INTERIOR CENTERPIECE

6063-T6 ALLOY



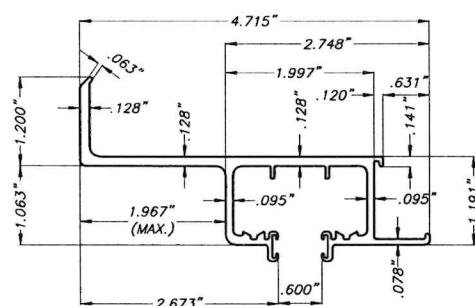
⑤ EXTERIOR CENTERPIECE

6063-T6 ALLOY



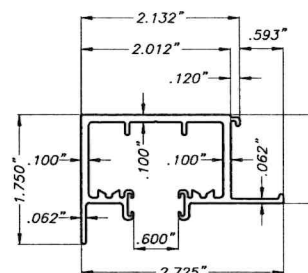
⑥ WALL HEADER

6063-T5 ALLOY



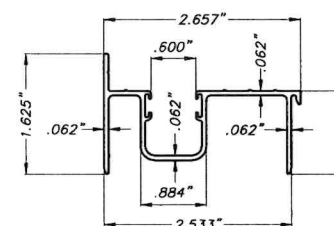
⑦ 2\"/>

6063-T6 ALLOY



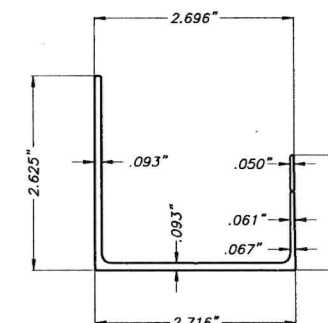
⑧ CEILING HEADER

6063-T5 ALLOY



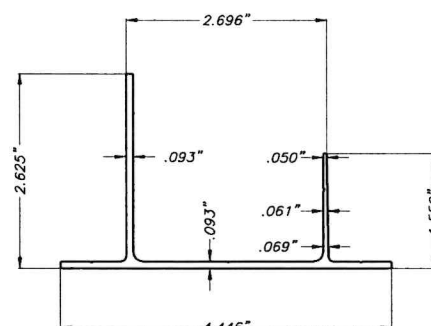
⑨ BOTTOM SILL TRACK

6063-T6 ALLOY



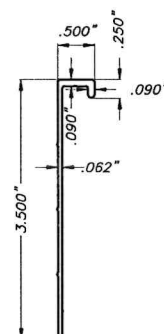
⑩ BOTTOM TRACK ADAPTER

6063-T6 ALLOY



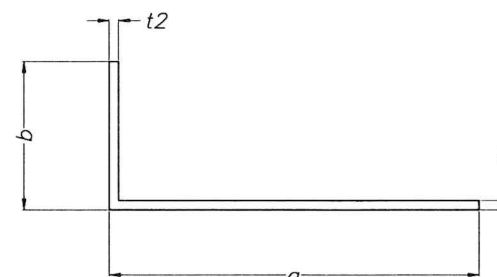
⑪ ALT. BOTTOM TRACK ADAPTER

6063-T6 ALLOY



⑫ BOTTOM RAIN GUARD

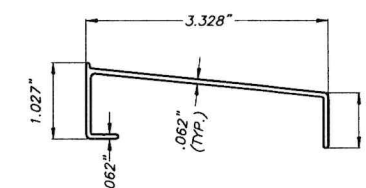
6063-T6 ALLOY



⑬⑭⑰ ALUMINUM ANGLES

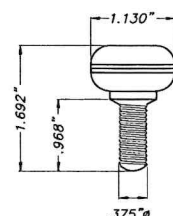
6063-T6 ALLOY

COMPONENT	a	b	t1	t2
⑬	2"	5" MAX.	0.125"	0.125"
⑭	2"	4" MAX.	0.25"	0.25"
⑰	1"	2" MAX.	0.062"	0.062"



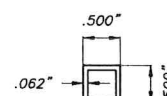
⑭ RAIN HOOD

6063-T5 ALLOY



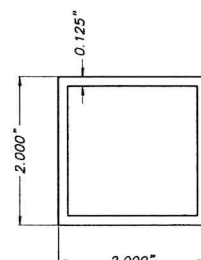
⑮ 3/8\"/>

FOR ④ & ⑤



**⑮ LOCKING TUBES
AT CENTERPIECE**

6063-T6 ALLOY
MIN. 28 1/2" LONG

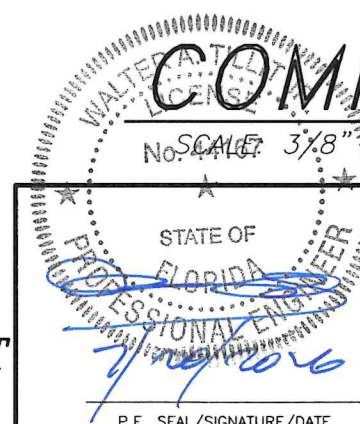


⑰ CORNER POST

6063-T6 ALLOY

COMPONENTS

No. 14157 3/8" 1"



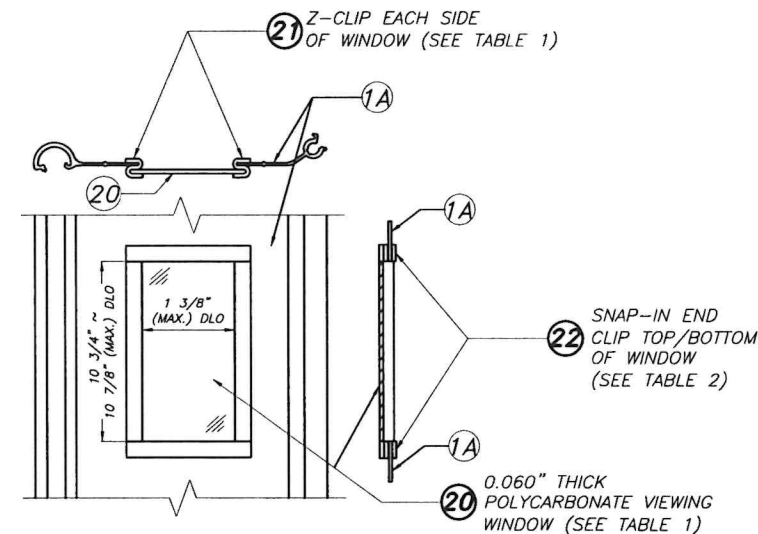
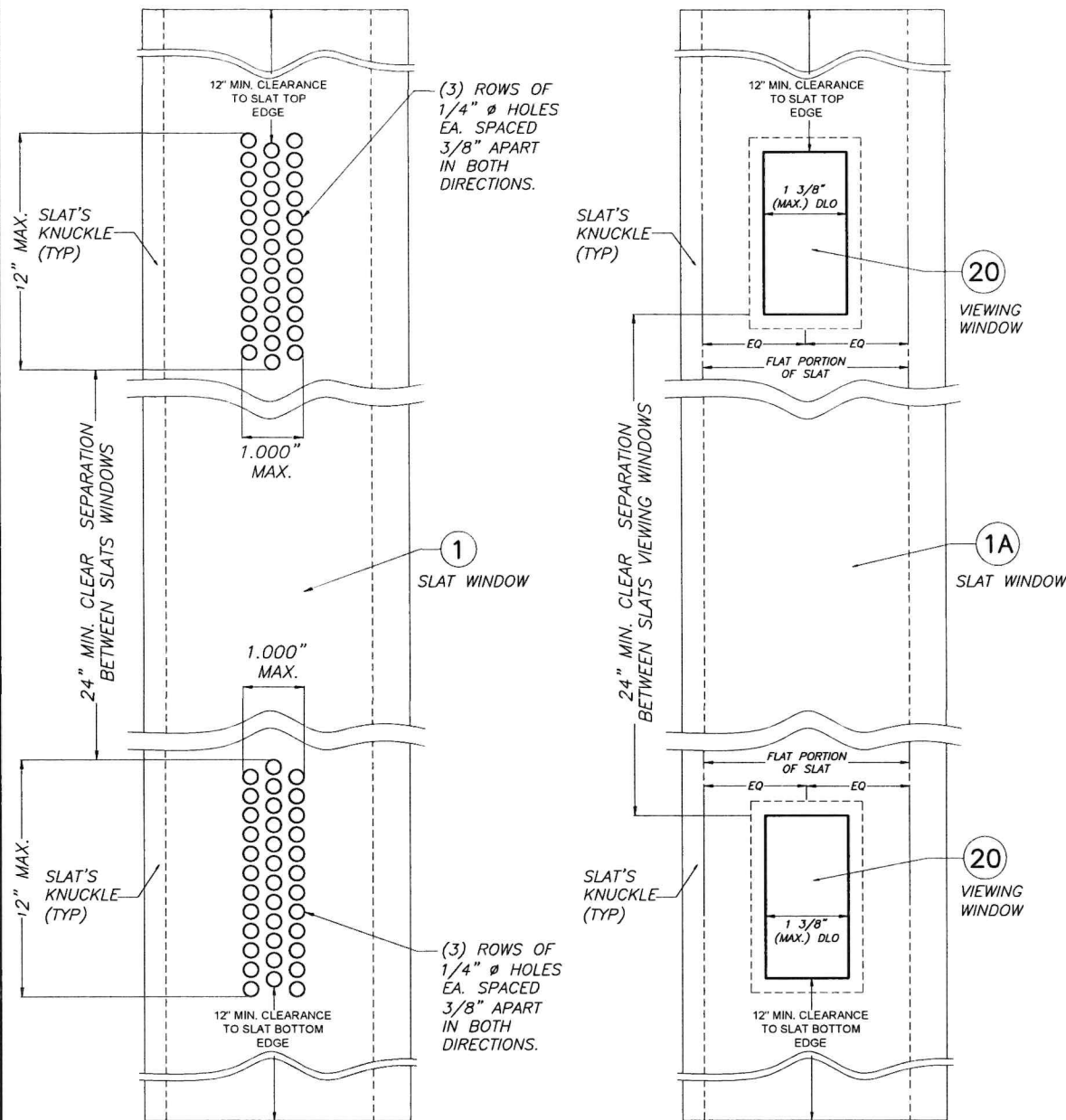
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TILTECO INC.

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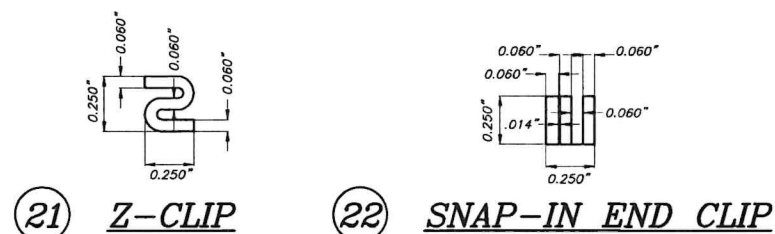
FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

TITAN II FOLDING IMPACT PROTECTIVE SYSTEM L.M.I			DRAWN BY: W.H.		
FOLDING SHUTTER CORP.			6/23/2026 DATE		
1862 MARTIN LUTHER KING JR. BLVD WEST PALM BEACH, FL 33404 PH: 1800-643-6371 www.foldingshutters.com			26-056 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-106	6/23/2026	3	-	-
2	-	-	4	-	-



NOTES:
 - MAX. (2) WINDOWS MAY BE IN ONE SLAT SPACED A MINIMUM OF 24" APART, WITH 12" MIN. FROM ENDS OF SLAT TOP & BOTTOM.
 - (1A) SLAT MUST NEVER BE INSTALLED ADJACENT TO CENTERPIECES (4) OR (5), NOR AT CORNERS OF PRODUCT.

1A SLAT WINDOW DETAIL (ELEVATION)



NOTES:
 - TO BE USED AS AN OPTION FOR ALL INSTALLATIONS UNDER LARGE MISSILE. MAY INCLUDE PERFORATIONS AS PER THIS DETAIL.

- MAX. (2) WINDOWS MAY BE IN ONE SLAT SPACED MIN. 24" APART (MAX. EVERY 10 SLATS).

TYPICAL ALTERNATE PERFORATED 1 SLAT WINDOW ELEVATION (LARGE MISSILE IMPACT)

1A SLAT WINDOW ELEVATION

TYPICAL 1A SLAT WINDOW DETAILS W/ 20 VIEWING WINDOW & 21, 22 CLIPS (SMALL MISSILE IMPACT)

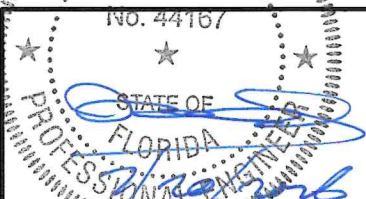
TABLE 1: SOURCES FOR 20 & 21

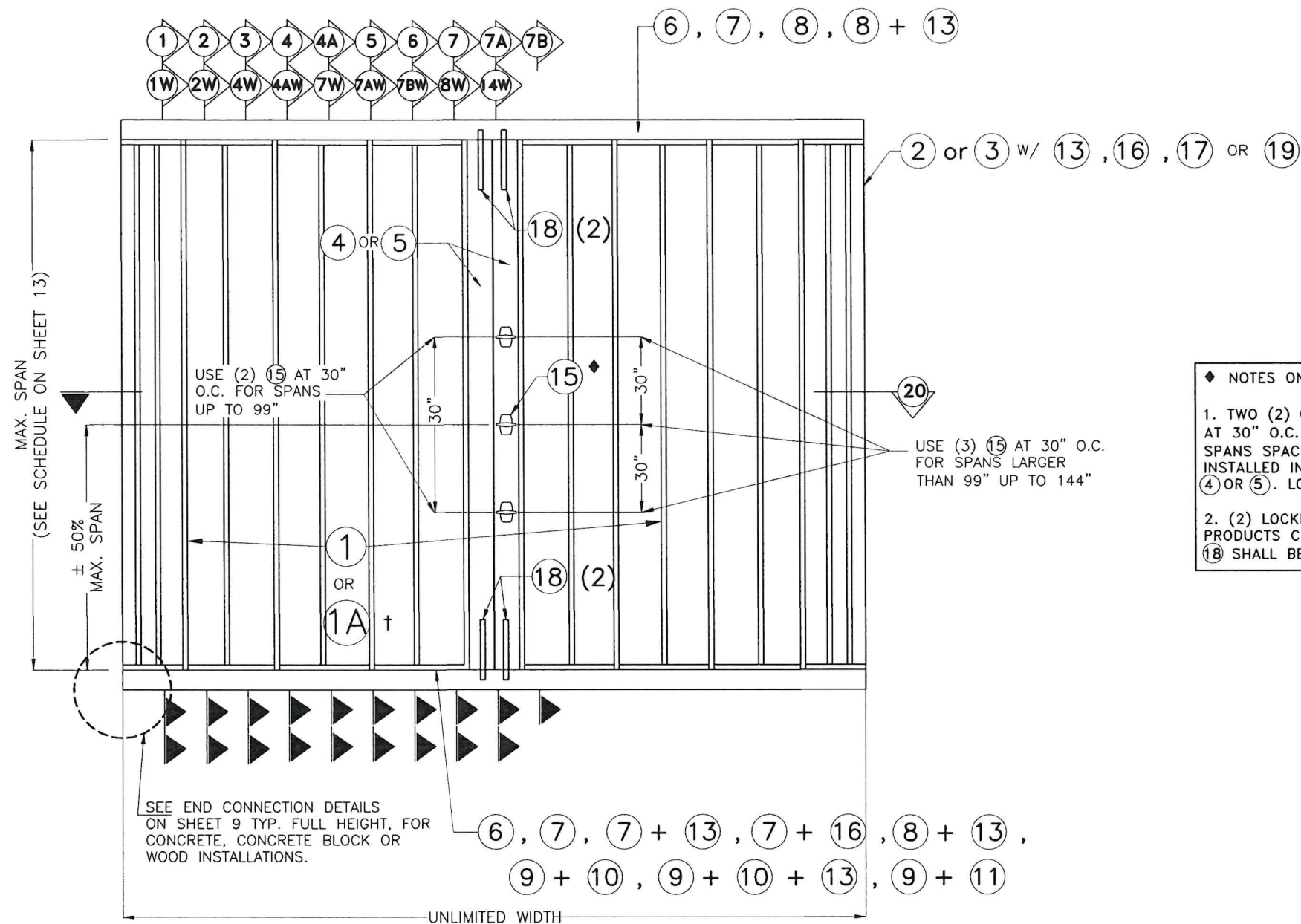
TYPICAL PROPERTIES	STANDARD REFERENCE	OPTIONS	
		BAYER	SABIC INNOVATIVE
		MATERIAL / SCIENCE LLC.MAKROLON 3103	PLASTIC LEXAN 103 RESIN
<u>PHYSICAL:</u>			
SPECIFIC GRAVITY	ASTM D792	0.043 lb/in ³	0.043 lb/in ³
<u>MECHANICAL:</u>			
TENSILE YIELD STRENGTH	ASTM D638	9,400 p.s.i.	9,500 p.s.i.
FLEXURAL STRENGTH AT YIELD	ASTM D790	12,500 p.s.i.	13,400 p.s.i.
FLEXURAL MODULUS	ASTM D790	340,000 p.s.i.	345,000 p.s.i.
<u>IMPACT:</u>			
NOTCHED IZOD	ASTM D256	18 FT-lb/in	17 FT-lb/in
<u>FIRE BURNING CHARACTERISTICS:</u>			
SMOKE DENSITY	ASTM D2843	47.2 %	64.5 % MAX
RATE OF BURNING	ASTM D635	C-1 CLASS	C-1 CLASS
SELF IGNITION	ASTM D1929	1040 °F	980 °F
<u>WEATHERING:</u>			
TENSILE STRENGTH AFTER WEATHERING	ASTM D638	9302 p.s.i.	8840 p.s.i.
TENSILE STRESS BEFORE WEATHERING	ASTM D638	8461 p.s.i.	8880 p.s.i.

TABLE 2: SOURCES FOR 22

TYPICAL PROPERTIES	STANDARD REFERENCE	MASTER TOOL COMPANY BLACK NYLON PART # 20519A/B
PHYSICAL:		
SPECIFIC GRAVITY	ASTM D792	0.042 lb/in ³
MECHANICAL:		
TENSILE YIELD STRENGTH	ASTM D638	11,500 p.s.i.
FLEXURAL STRENGTH AT YIELD	ASTM D790	15,000 p.s.i.
FLEXURAL MODULUS	ASTM D790	450,000 p.s.i.
IMPACT:		
NOTCHED IZOD	ASTM D256	0.6 FT-lb/in
THERMAL PROPERTIES:		
COEFFICIENT OF THERMAL EXPANSION	ASTM D696	5.5 x 10 ⁻⁵ in/in-°F
FLAMMABILITY	UL 94	V-2
MELTING TEMPERATURE	ASTM D3418	500 °F

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

 P.E. SEAL/SIGNATURE/DATE	© 2026 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 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr. P.E. FLORIDA Lic. # 44167	TITAN II FOLDING IMPACT PROTECTIVE SYSTEM L.M.I						DRAWN BY: W.H.																	
		FOLDING SHUTTER CORP. 1862 MARTIN LUTHER KING JR. BLVD WEST PALM BEACH, FL 33404 PH: 1800-643-6371 www.foldingshutters.com						6/23/2026 DATE																	
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1	OLD 23-106	6/23/2026	3	-	-																				
2	-	-	4	-	-																				



- ◆ NOTES ON 15 & LOCKING TUBES 18 AT 4 & 5.
1. TWO (2) 15 SHALL ALWAYS BE USED AT PRODUCT'S MIDSPAN SPACED AT 30" O.C. FOR SPANS UP TO 99". USE THREE (3) 15 FOR LARGER SPANS SPACED AT 30" O.C. AT MIDSPAN. COMPONENT 15 MAY BE INSTALLED INTERIOR OR EXTERIOR SCREWED TO TAPPED CENTERPIECES 4 OR 5. LOCATION OF 15 SHALL BE AS SHOWN ON TYPICAL ELEVATION.
 2. (2) LOCKING TUBES 18 SHALL ALWAYS BE USED TOP & BOTTOM AT PRODUCTS CENTERPIECES 4 OR 5 AT ALL INSTALLATIONS. LOCKING TUBES 18 SHALL BE SECURED W/ LEVERS AS SHOWN ON SHEET 9.

† SEE LIMITATIONS FOR 1A ON SHEET 2

TYPICAL ELEVATION ♣
N. T. S.

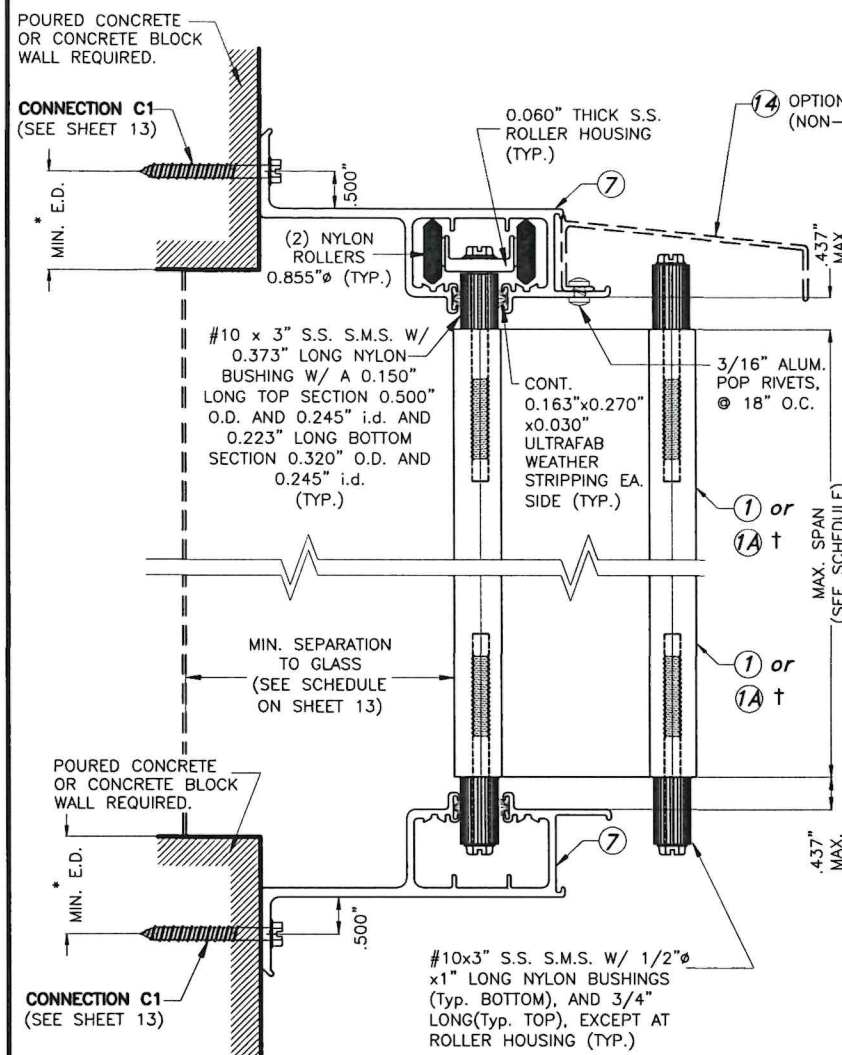
♣ NOTE:
SEE SECTIONS 1 THRU 3 ON SHEET 5.
SEE SECTIONS 4 THRU 6 ON SHEET 6.
SEE SECTIONS 7, 7A & 7B ON SHEET 7.
SEE SECTIONS 1W & 2W ON SHEET 10.
SEE SECTIONS 4W, 4AW & 7W ON SHEET 11.
SEE SECTIONS 7AW, 7BW, 8W & 14W ON SHEET 12.

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

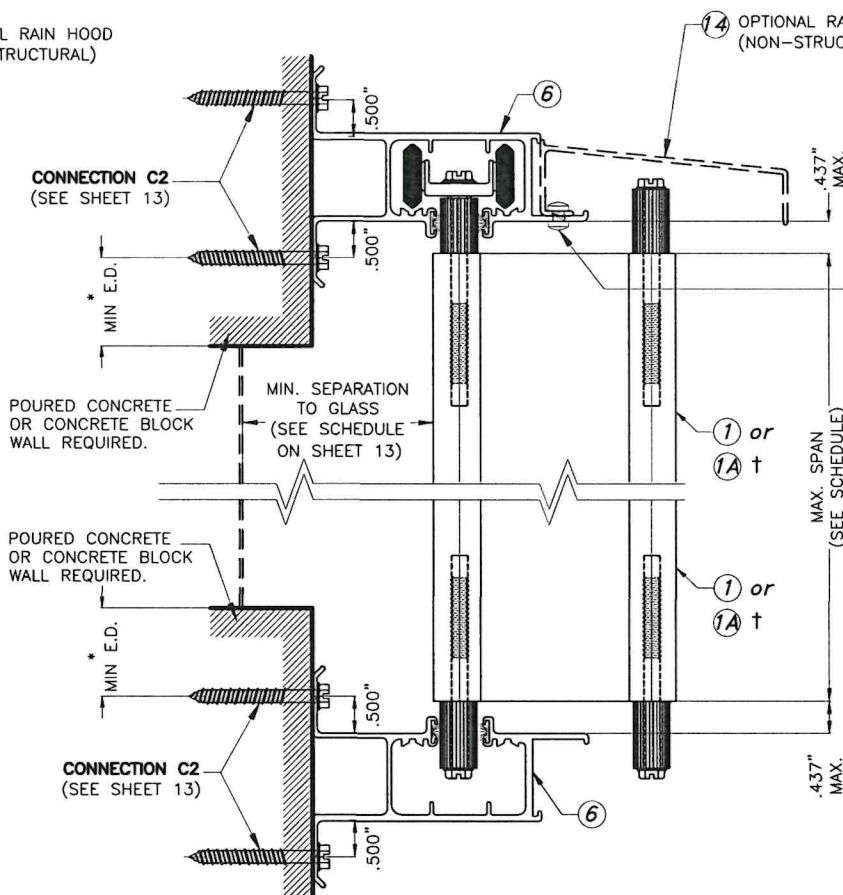
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TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166
Phone : (305)871-1530 - Fax : (305)871-1531
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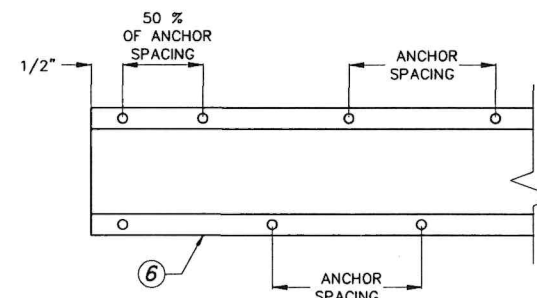
TITAN II FOLDING IMPACT PROTECTIVE SYSTEM L.M.I.						DRAWN BY: W.H.	
FOLDING SHUTTER CORP.						6/23/2026 DATE	
1862 MARTIN LUTHER KING JR. BLVD WEST PALM BEACH, FL 33404 PH: 1800-643-6371 www.foldingshutters.com						26-056 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 4 OF 13	
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2	-	-	4	-	-		



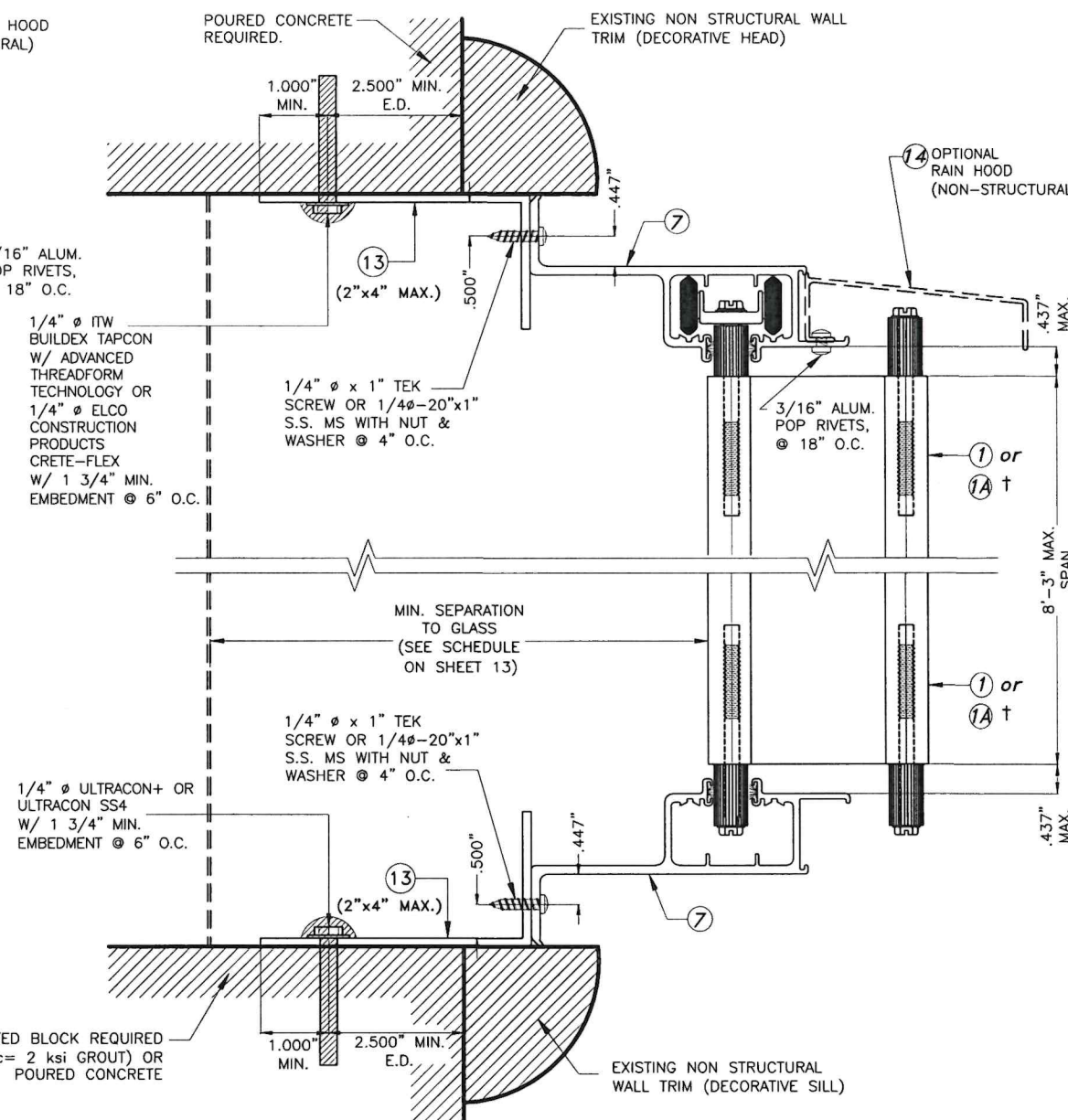
**WALL FACE MOUNTING INSTALLATION
SECTION 1**



**WALL FACE MOUNTING INSTALLATION
SECTION 2**



**STAGGERED ANCHOR SPACING
DETAIL FOR (6)**



**DECORATIVE WALL TRIM TRAPPED
MOUNTING INSTALLATION
SECTION 3**

MAX. A.S.D. DESIGN PRESSURE RATING = +65.0, -90.0 PSF

INSTALLATIONS DETAILS INTO CONCRETE & CONCRETE BLOCK

SCALE: N.T.S.

NOTE FOR COMBINATION OF SECTIONS:

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

* E.D. = EDGE DISTANCE
(SEE SPECIFICATIONS ON SHEET 13)

† SEE LIMITATIONS FOR (1A) ON SHEET 2

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TITAN II FOLDING IMPACT PROTECTIVE SYSTEM
L.M.I

FOLDING SHUTTER CORP.

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DRAWN BY:
W.H.

6/23/2026
DATE

26-056
DRAWING No

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-106	6/23/2026	3	-	-
2	-	-	4	-	-

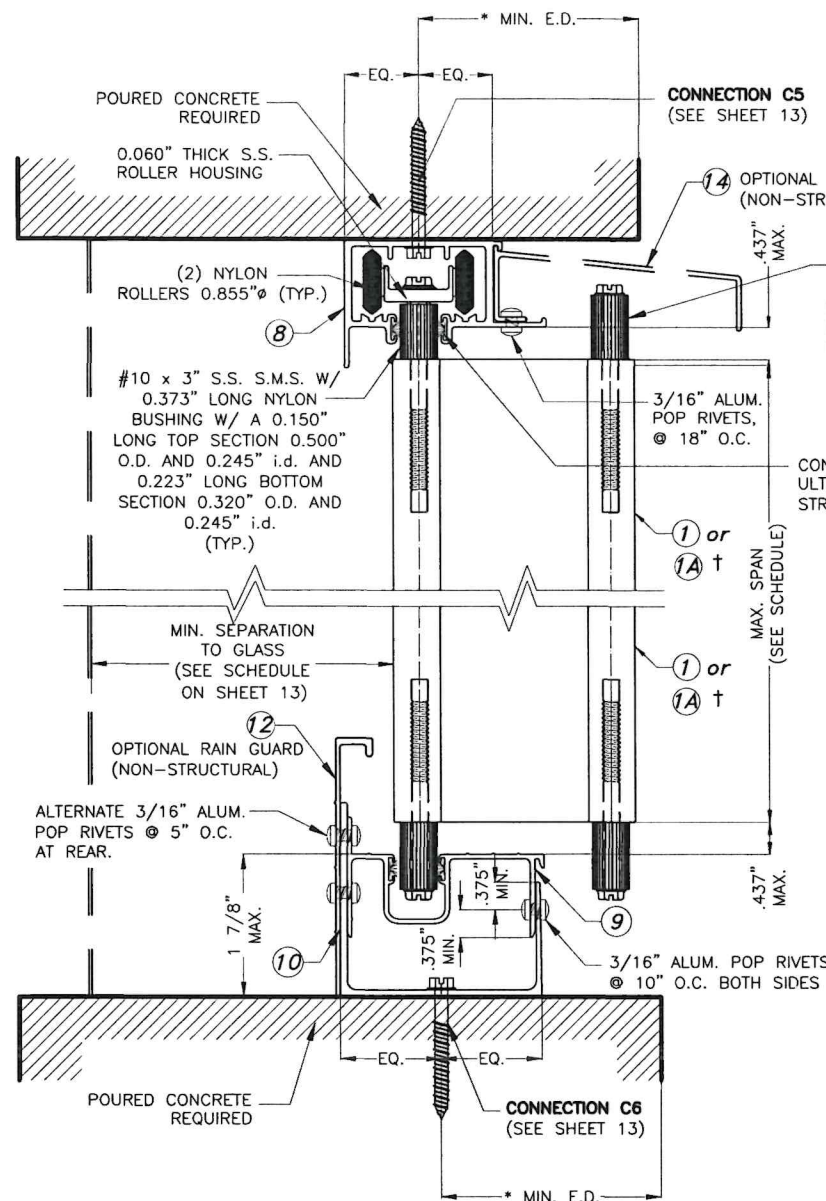
SHEET 5 OF 13



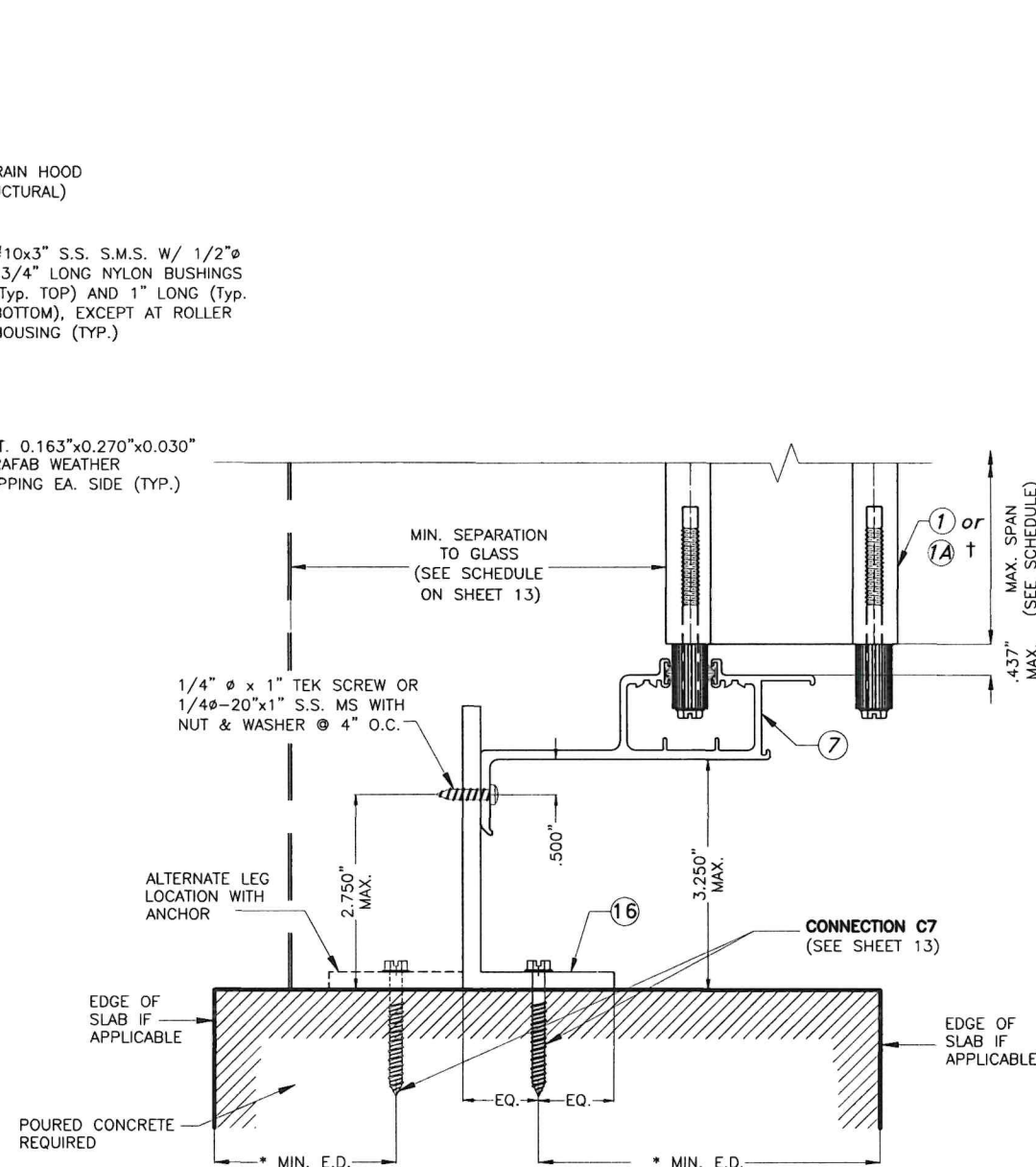
SCALE : N.T.S.

BUILD-OUT FACE MOUNTING INSTALLATION

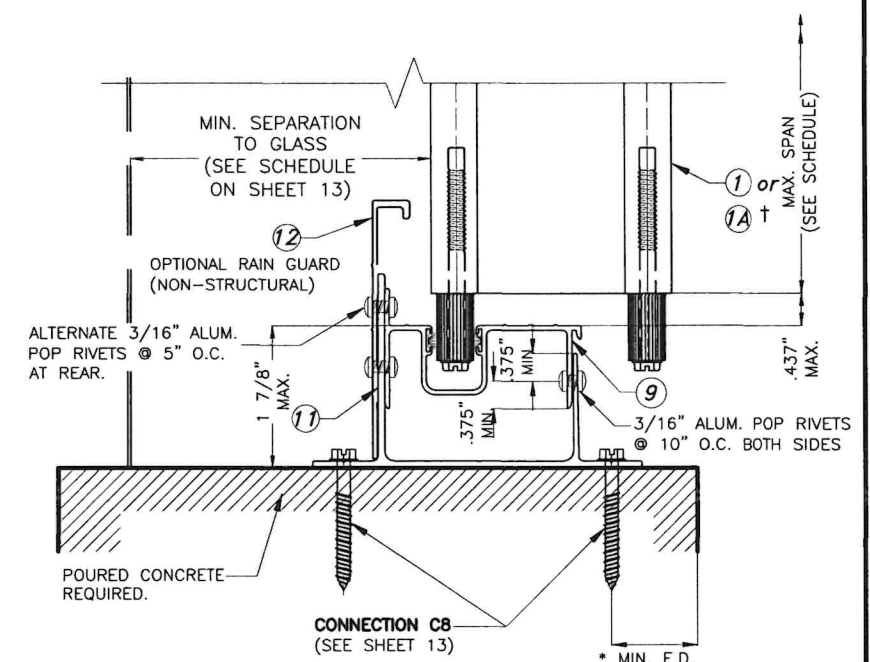
SHEET 6 OF 13



**TRAPPED MOUNTING INSTALLATION
SECTION 7**



**ALTERNATE TRAPPED MOUNTING
INSTALLATION AT BOTTOM
SECTION 7A**



**ALTERNATE TRAPPED MOUNTING
INSTALLATION AT BOTTOM
SECTION 7B**

INSTALLATIONS DETAILS INTO CONCRETE & CONCRETE BLOCK

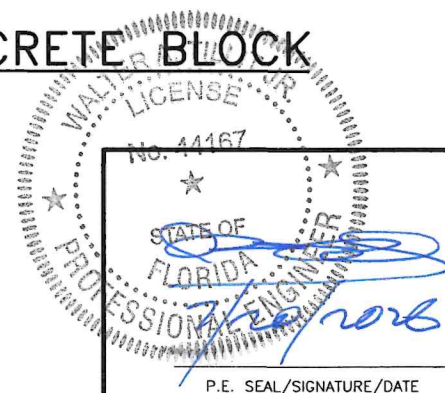
SCALE: N.T.S.

NOTE FOR COMBINATION OF SECTIONS:

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

† SEE LIMITATIONS FOR 1A ON SHEET 2

* E.D. = EDGE DISTANCE
(SEE SPECIFICATIONS ON SHEET 13)



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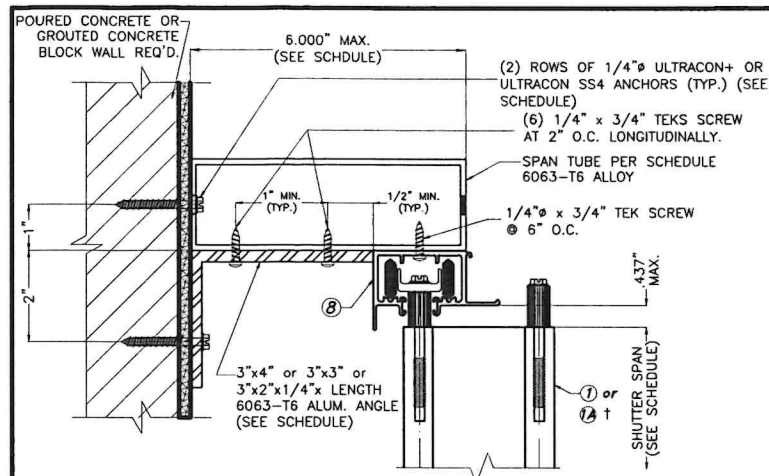
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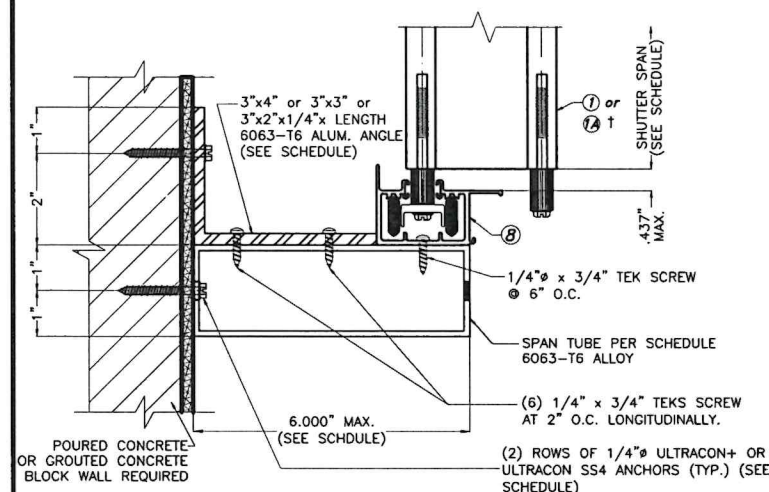
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TITAN II FOLDING IMPACT PROTECTIVE SYSTEM L.M.I				DRAWN BY: W.H.	
FOLDING SHUTTER CORP.				6/23/2026 DATE	
1862 MARTIN LUTHER KING JR. BLVD WEST PALM BEACH, FL 33404 PH: 1800-643-6371 www.foldingshutters.com				26-056 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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2	-	-	4	-	-

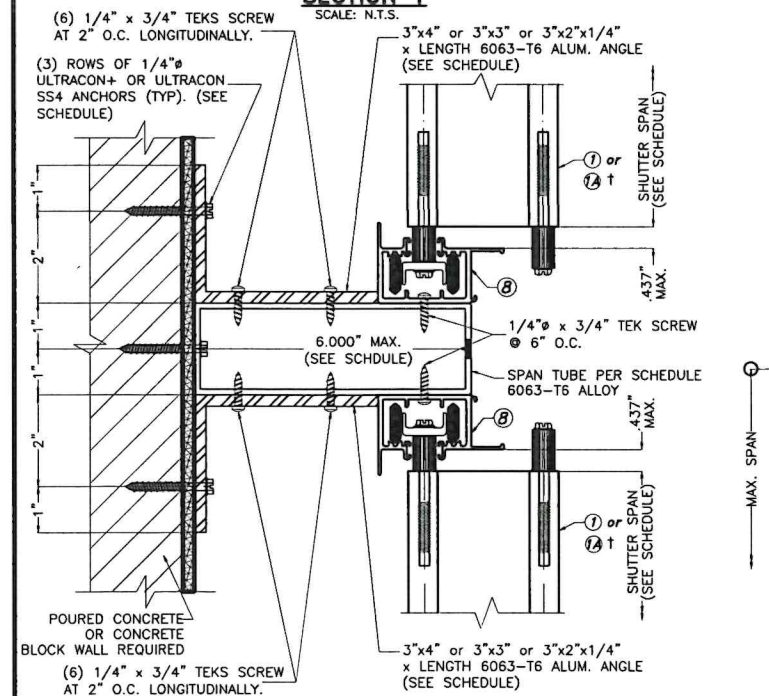
SHEET 7 OF 13



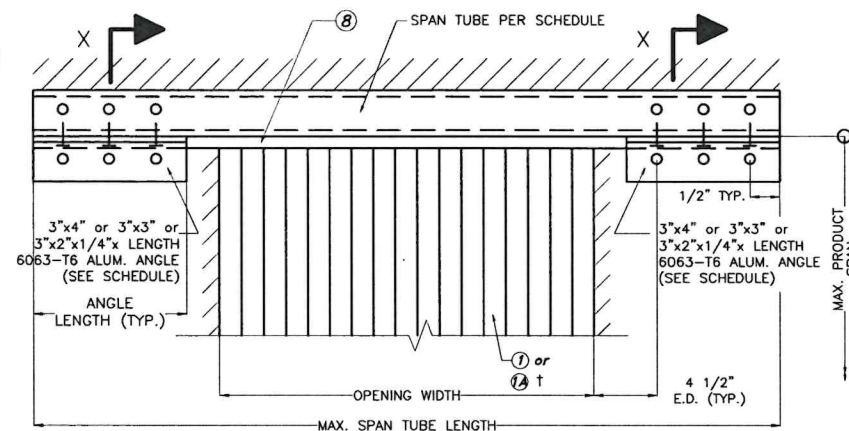
**SPAN TUBE MOUNTING INSTALLATION
SECTION X**
SCALE: N.T.S.



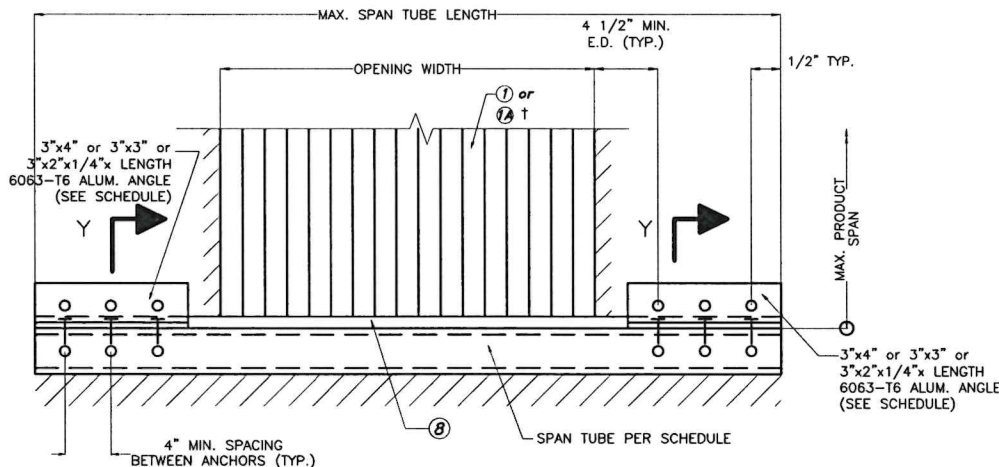
**SPAN TUBE MOUNTING INSTALLATION
SECTION Y**
SCALE: N.T.S.



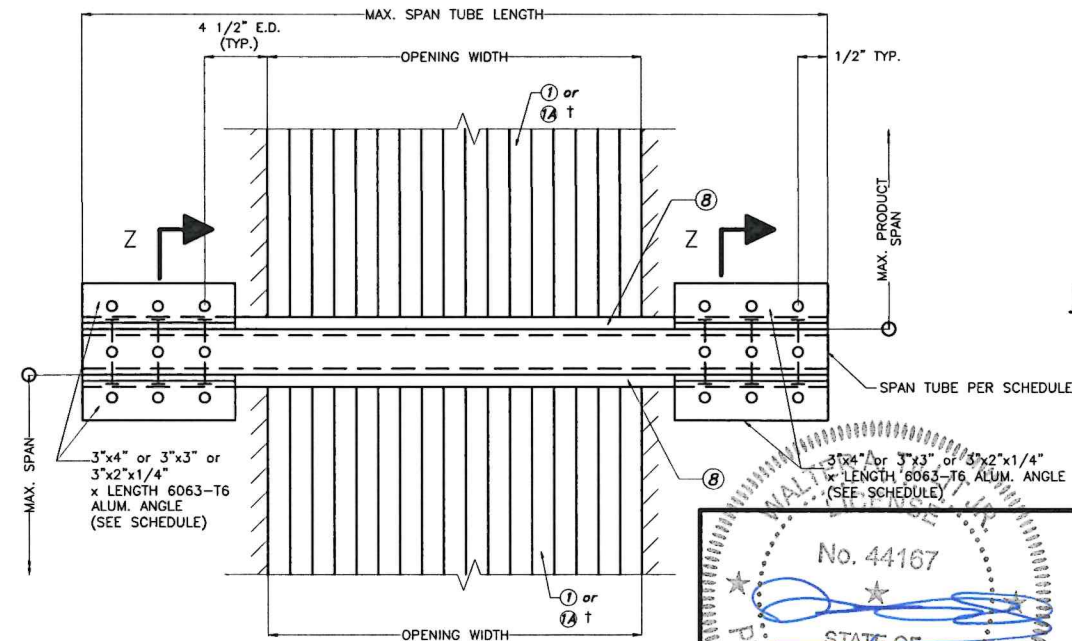
**SPAN TUBE MOUNTING INSTALLATION
SECTION Z**
SCALE: N.T.S.



TYPICAL ELEVATION (TUBE AT TOP)
SCALE: N.T.S.



TYPICAL ELEVATION (TUBE AT BOTTOM)
SCALE: N.T.S.



TYPICAL ELEVATION (TUBE AT MIDHEIGHT)
SCALE: N.T.S.

† SEE LIMITATIONS FOR (A) ON SHEET 2

TUBE SIZE	MAXIMUM PRODUCT SPAN	ALLOWABLE TUBE SPAN	REQ'D ANGLE LENGTH EA. END	NUMBER OF ANCHORS PER END OF TUBE
		TOP OR BOTTOM TUBE	TOP OR BOTTOM TUBE	TOP OR BOTTOM TUBE
2"x4"x1/8"	60"	106.0"	13	8
	96"	85.0"	17	10
	144"	69.0"	13	8
2"x4"x1/4"	80"	117.0"	17	10
	96"	110.0"	21	12
	144"	91.0"	21	12
2"x5"x1/8"	80"	109.0"	17	10
	96"	100.0"	21	12
	144"	81.0"	17	10
2"x6"x1/8"	80"	124.0"	21	12
	96"	114.0"	21	12
	144"	93.0"	21	12

* VALID ALSO FOR MIDHEIGHT TUBE INSTALLATION ONLY WHEN THE SUMATION OF THE SHUTTERS HEIGHT ABOVE & BELOW DOES NOT EXCEED THE MAX. PRODUCT SPAN SHOWN ON TABLE 1.

TUBE SIZE	MAXIMUM PRODUCT SPAN	ALLOWABLE TUBE SPAN	REQ'D ANGLE LENGTH EA. END	NUMBER OF ANCHORS PER END OF TUBE
2"x4"x1/8"	60"	76.0"	13	12
	96"	60.0"	17	15
	144"	48.0"	13	12
2"x4"x1/4"	80"	87.0"	21	18
	96"	79.0"	21	18
	144"	65.0"	21	18
2"x5"x1/8"	80"	77.0"	17	15
	96"	70.0"	21	18
	144"	57.0"	17	15
2"x6"x1/8"	80"	88.0"	21	18
	96"	81.0"	21	18
	144"	66.0"	21	18

INSTALLATIONS DETAILS W/ SPAN TUBE INTO POURED CONCRETE OR GROUTED CONCRETE BLOCK WALL

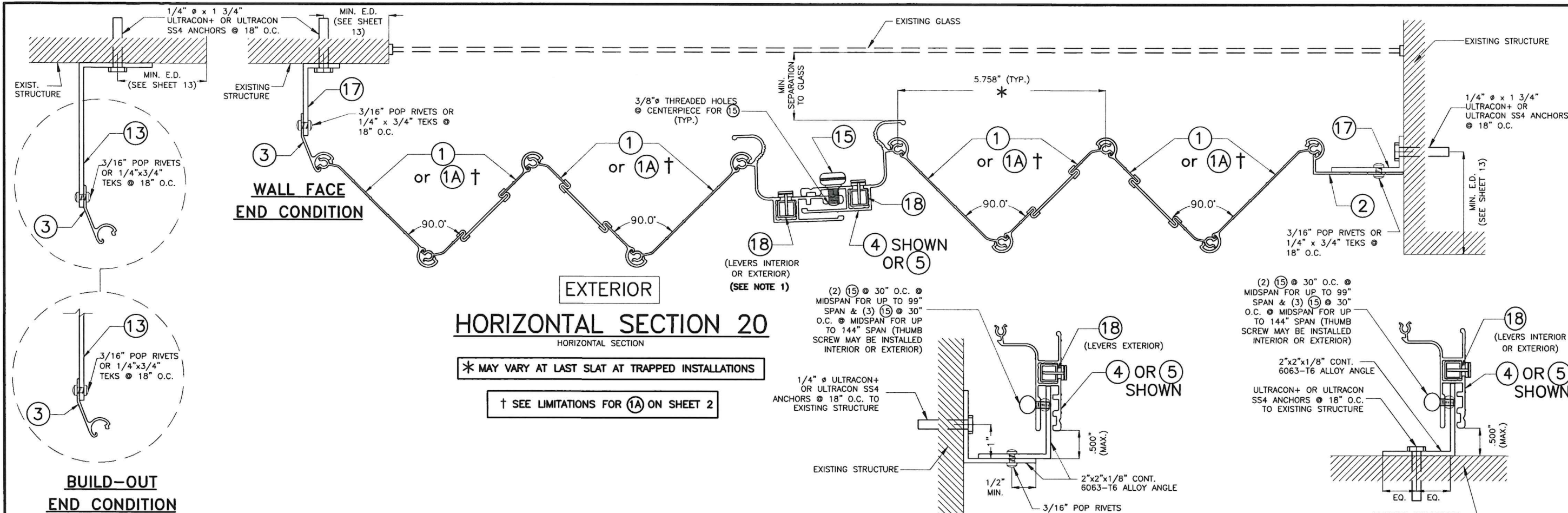
SCALE: N.T.S.

MAX. A.S.D. DESIGN PRESSURE RATING = ±72.0 PSF

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

© 2026 TILTECO INC. 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 e-mail: tilteco@aol.com CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167		TITAN II FOLDING IMPACT PROTECTIVE SYSTEM L.M.I FOLDING SHUTTER CORP. 1862 MARTIN LUTHER KING JR. BLVD WEST PALM BEACH, FL 33404 PH: 1800-643-6371 www.foldingshutters.com		DRAWN BY: W.H. 6/23/2026 DATE 26-056 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-106	6/23/2026	3	-	-
2	-	-	4	-	-

SHEET 8 OF 13



NOTE 1

ONE LOCKING TUBE, PART #18, SHALL BE INSERTED INTO THE TOP AND BOTTOM OF EACH EXTERIOR OR INTERIOR CENTERPIECE 4 OR 5, INSERTED INTO THE BOTTOM OF EACH ALUMINUM LOCKING TUBE 18. A SOLID THERMOPLASTIC TIP MUST BE INSTALLED. THE TOP 1.100\"/>

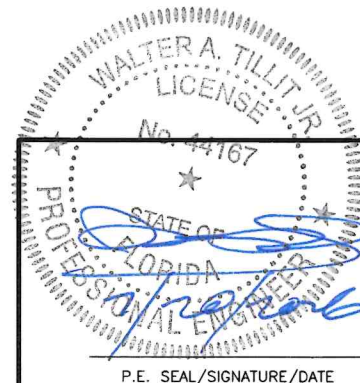
END INSTALLATION DETAILS INTO CONCRETE, CONCRETE BLOCK & WOOD (AS APPLICABLE)

END LOCK ANGLE HORIZONTAL SECTION

END LOCK ANGLE HORIZONTAL SECTION

ALTERNATE LOCKING SLAT CORNER LOCKING DETAIL HORIZONTAL SECTION

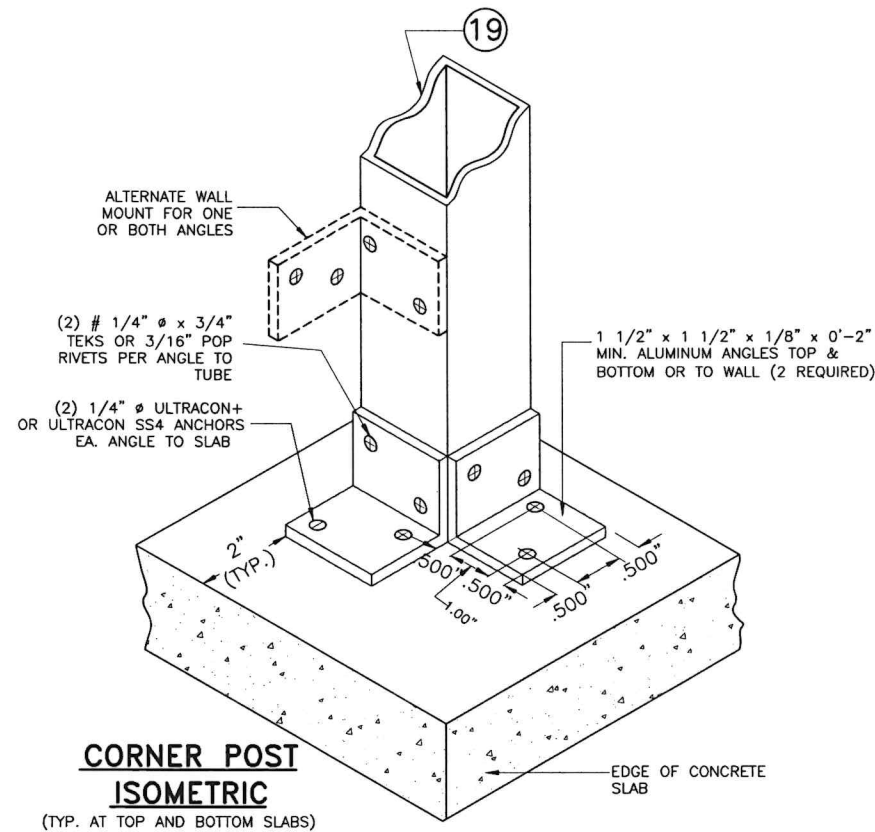
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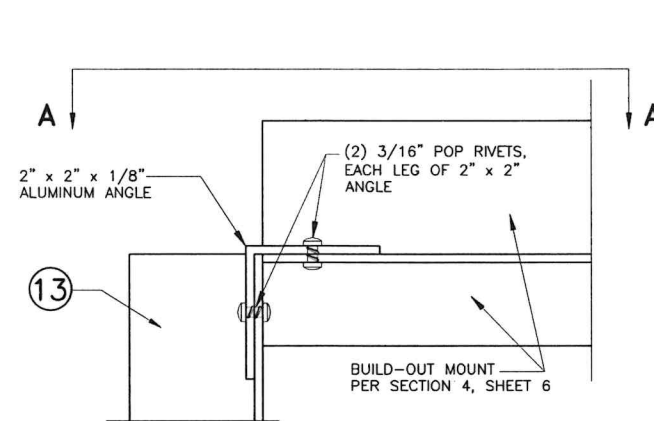
TITAN II FOLDING IMPACT PROTECTIVE SYSTEM L.M.I					
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-106	6/23/2026	3	-	-
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6/23/2026
DATE
26-056
DRAWING No
SHEET 9 OF 13

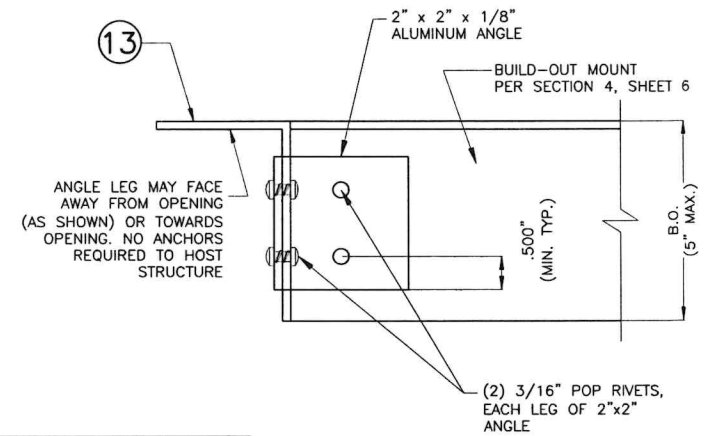


**CORNER POST
ISOMETRIC**

(TYP. AT TOP AND BOTTOM SLABS)



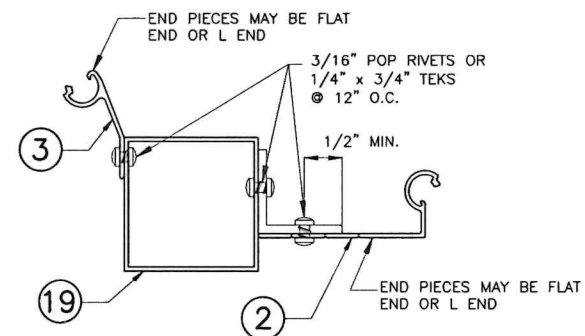
EXTERIOR ELEVATION



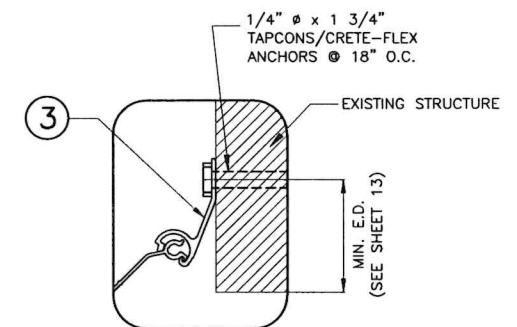
PLAN VIEW A-A

NOTE: SIMILAR AT HEAD
AND SILL AND BOTH SIDES
OF PRODUCT

OPTIONAL SIDE ANGLE
(FOR SECTION 4, SHEET 6)

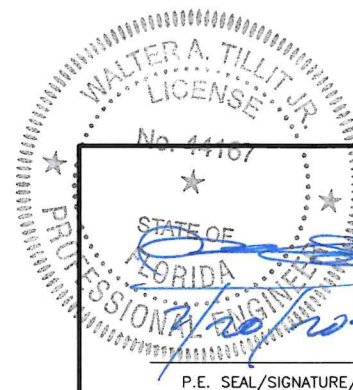


**CORNER POST
HORIZONTAL SECTION**



**TRAPPED END
CONDITION W/ FLAT END**

**END INSTALLATION DETAILS INTO CONCRETE,
CONCRETE BLOCK & WOOD (AS APPLICABLE)**

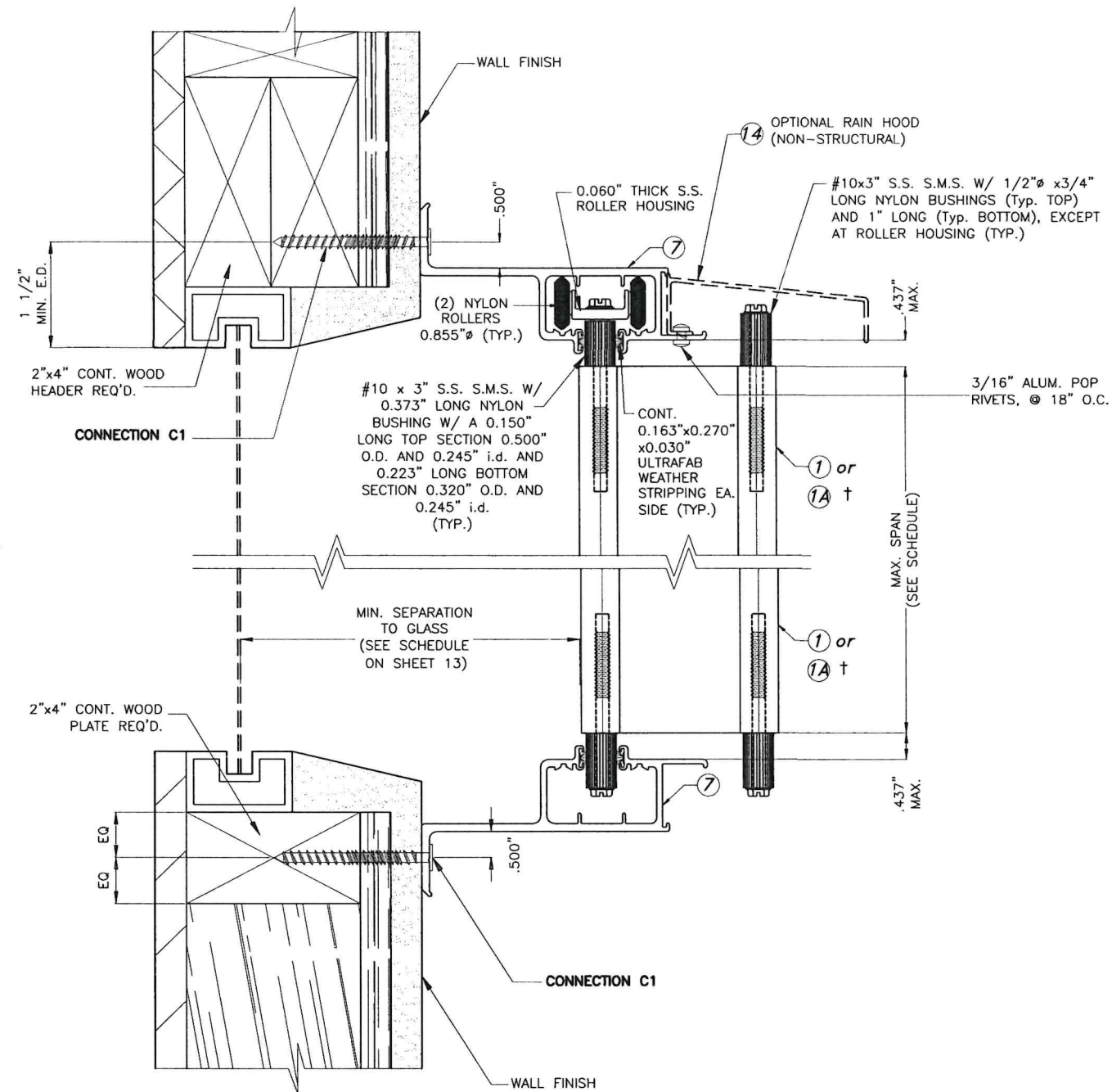


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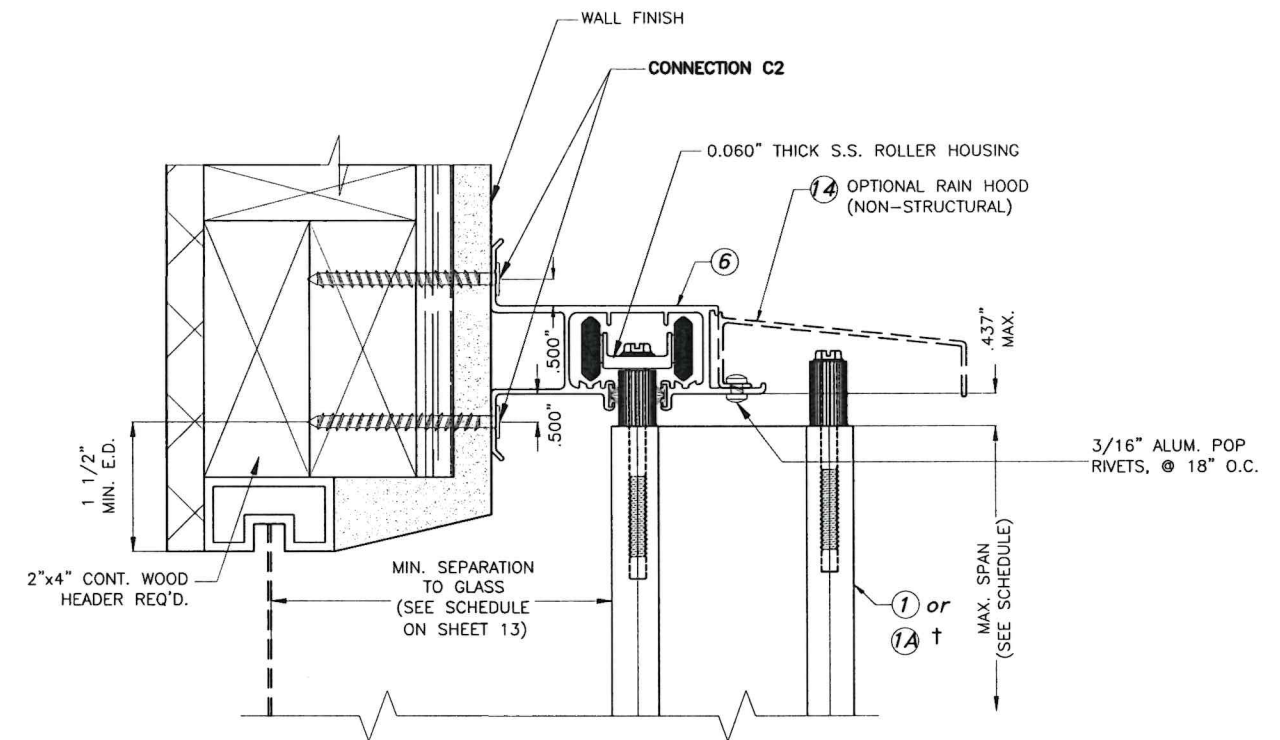
FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

TITAN II FOLDING IMPACT PROTECTIVE SYSTEM L.M.I					
FOLDING SHUTTER CORP.					
1862 MARTIN LUTHER KING JR. BLVD WEST PALM BEACH, FL 33404 PH: 1800-643-6371 www.foldingshutters.com					
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-106	6/23/2026	3	-	-
2	-	-	4	-	-

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W.H.
6/23/2026
DATE
26-056
DRAWING No
SHEET 9A OF 13



**WALL FACE MOUNTING INSTALLATION
SECTION 1W**



**WALL FACE MOUNTING INSTALLATION
SECTION 2W (TOP)**

INSTALLATIONS DETAILS INTO WOOD

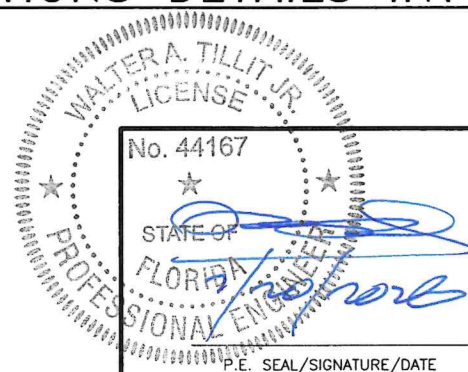
NOTES:

1- FOR WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE HAVE A MIN. SPECIFIC DENSITY OF 0.46 OR EQUAL

† SEE LIMITATIONS FOR 1A ON SHEET 2

NOTE FOR COMBINATION OF SECTIONS:

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

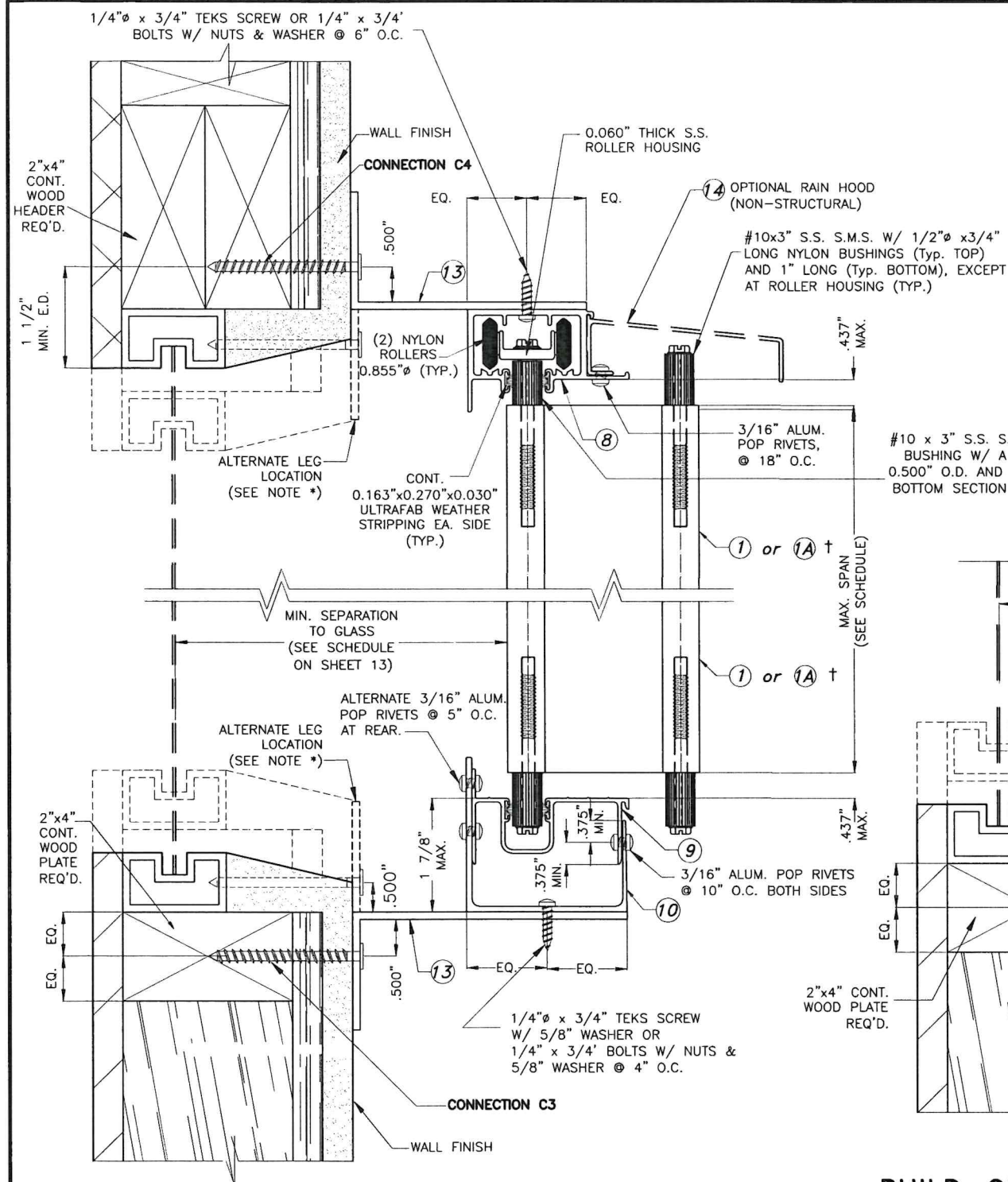


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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 10 OF 13	
1	OLD 23-106	6/23/2026	3	-	-		
2	-	-	4	-	-		



**BUILD-OUT FACE MOUNTING INSTALLATION
SECTION 4W**

NOTE *: ALTERNATE LEG LOCATION AND ANCHORAGE TO WALL SHOWN DOTTED

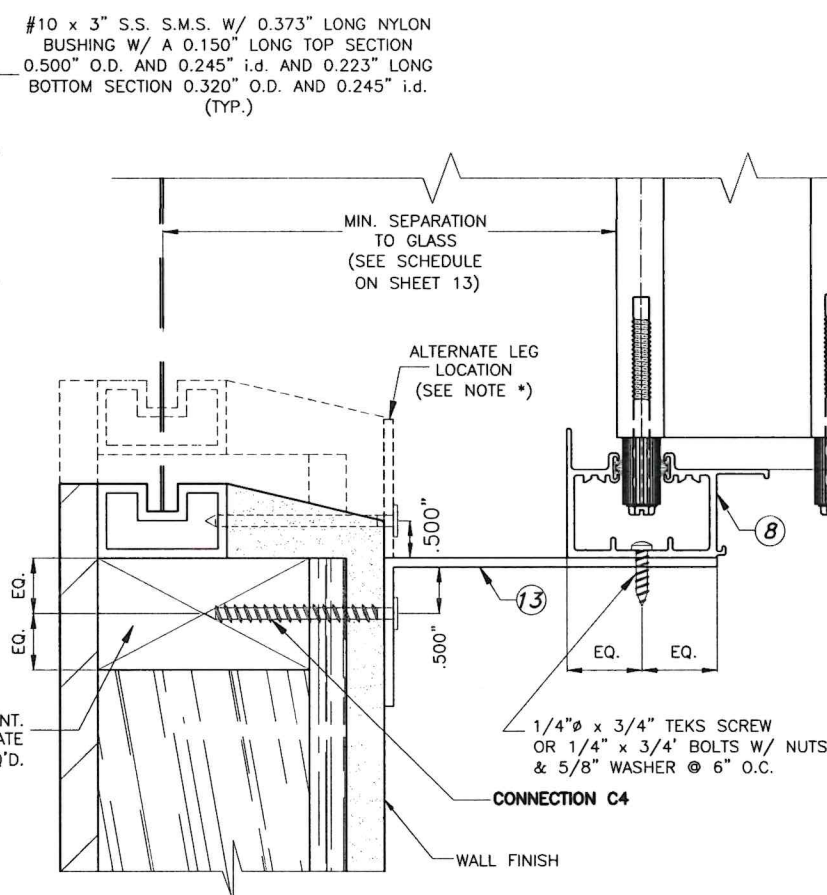
INSTALLATIONS DETAILS INTO WOOD

SCALE : N.T.S.

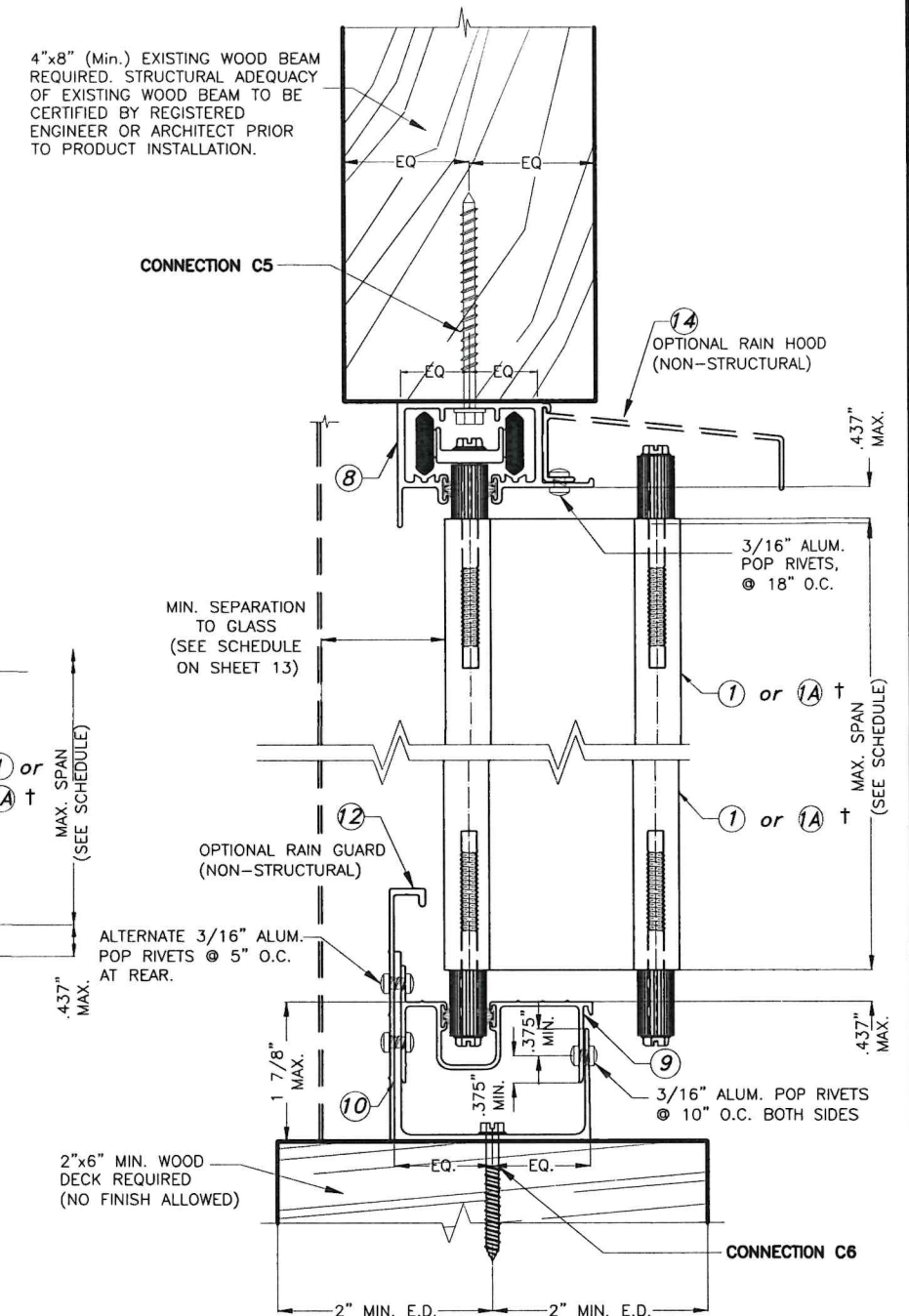
† SEE LIMITATIONS FOR (A) ON SHEET 2

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

NOTES:
1- FOR WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE HAVE A MIN. SPECIFIC DENSITY OF 0.46 OR EQUAL

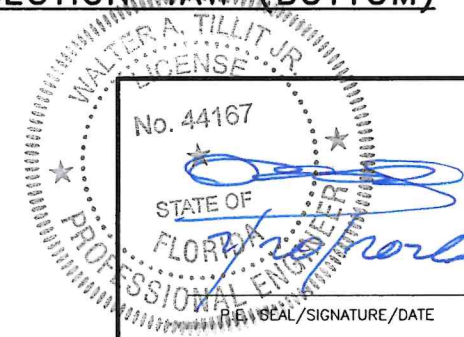


**BUILD-OUT FACE MOUNTING INSTALLATION
SECTION 4AW (BOTTOM)**



**TRAPPED MOUNTING INSTALLATION
SECTION 7W**

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

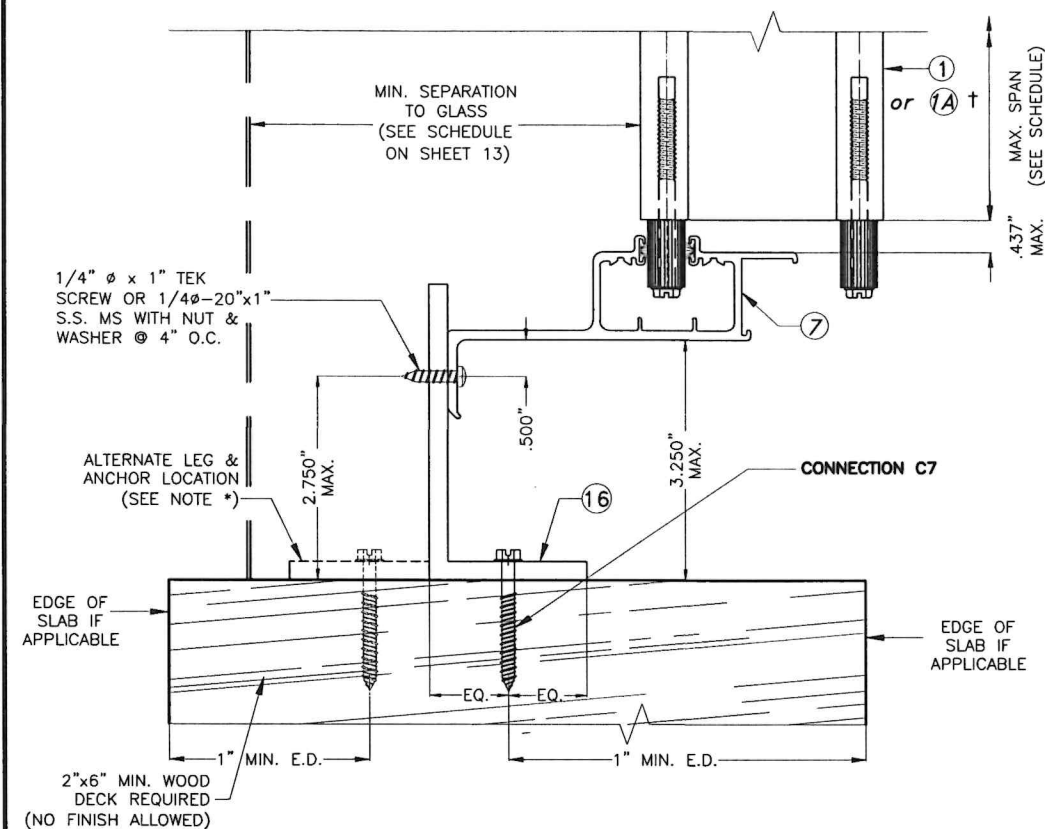


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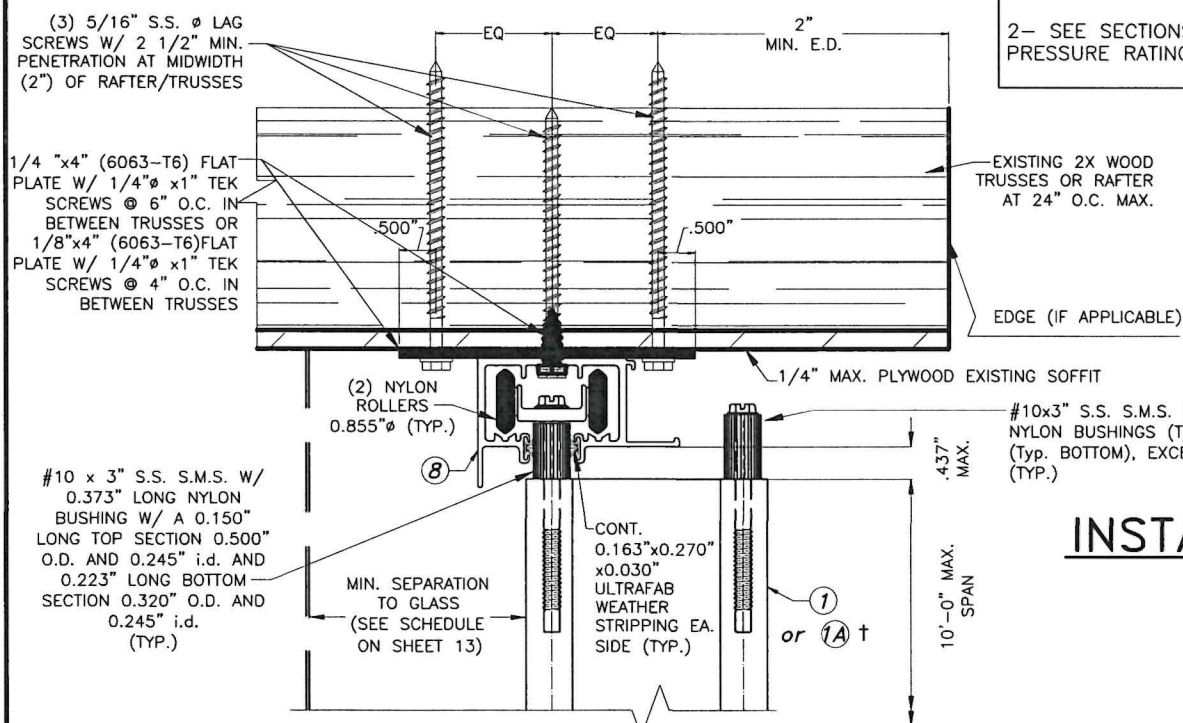
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FOLDING SHUTTER CORP.						6/23/2026 DATE	
1862 MARTIN LUTHER KING JR. BLVD WEST PALM BEACH, FL 33404 PH: 1800-643-6371 www.foldingshutters.com						26-056 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	SHEET 11 OF 13	
1	OLD 23-106	6/23/2026	3	-	-		
2	-	-	4	-	-		



**FLOOR MOUNTING INSTALLATION
SECTION 7AW (BOTTOM)**



**HEADER TO TRUSS MOUNTING INSTALLATION
SECTION 8W (TOP)**

MAX. A.S.D. DESIGN PRESSURE RATING +60.0, -60.0 PSF

† SEE LIMITATIONS FOR (1A) ON SHEET 2

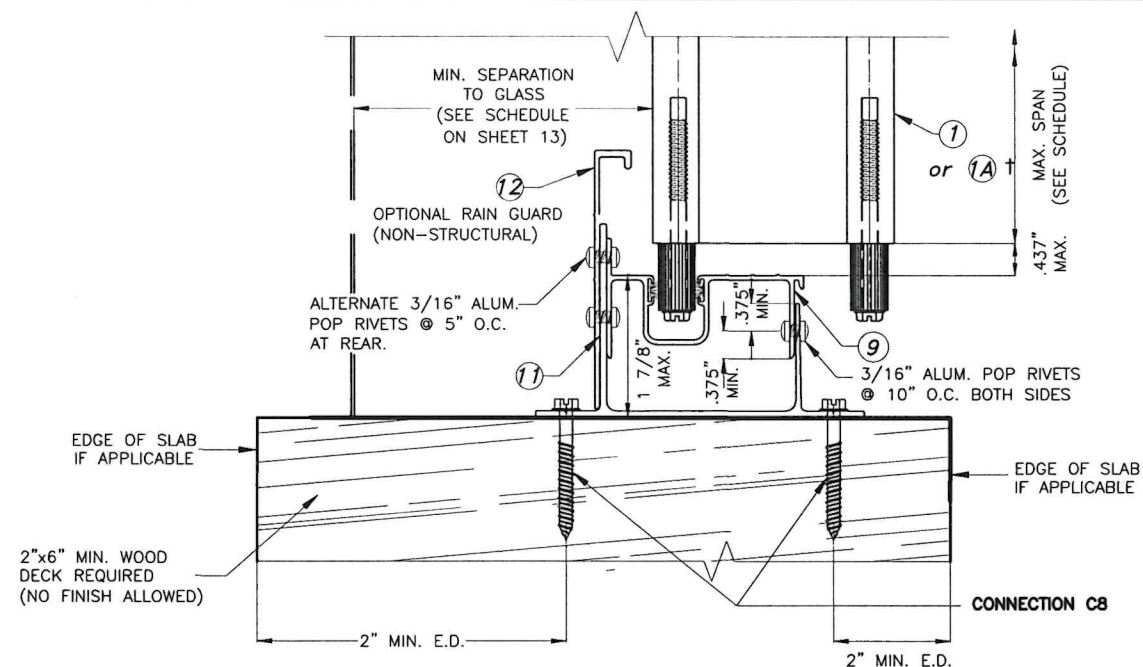
NOTE FOR COMBINATION OF SECTIONS:
1- MOUNTING SECTIONS CAN BE COMBINED
IN ANY WAY TO SUIT ANY INSTALLATION.

NOTES:

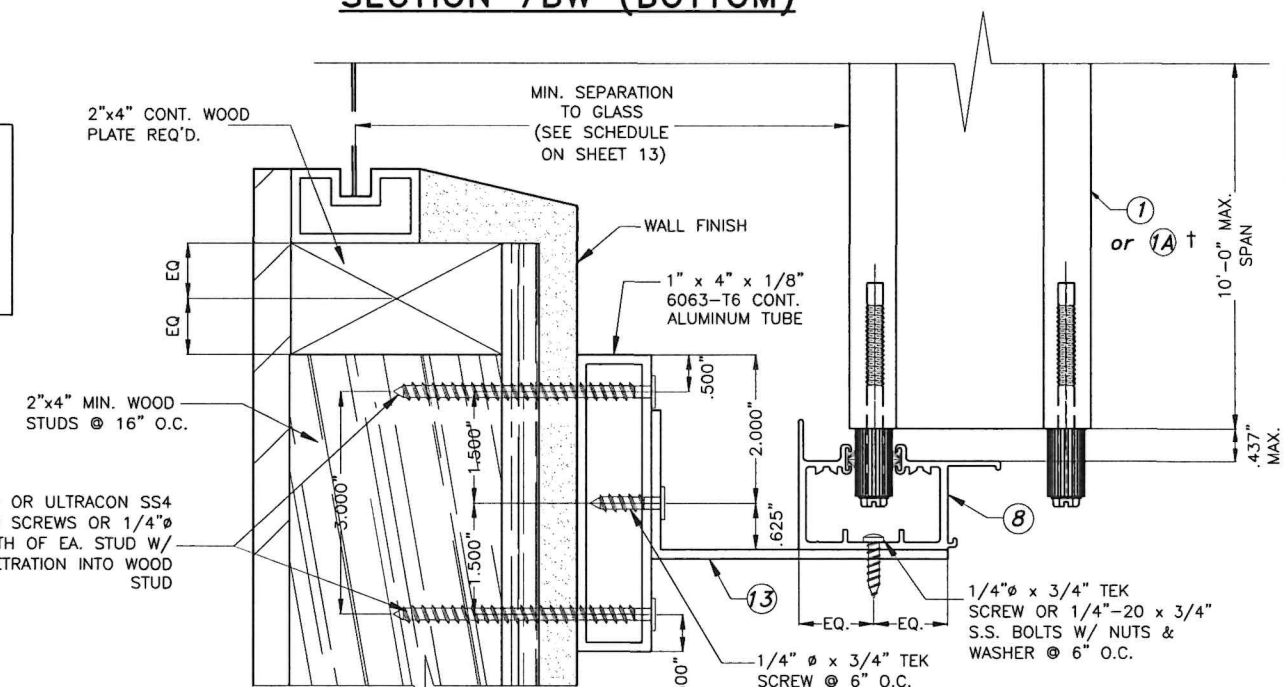
- 1- FOR WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE HAVE A MIN. SPECIFIC DENSITY OF 0.46 OR EQUAL
- 2- SEE SECTIONS 8W & 14W FOR MAX. A.S.D. DESIGN PRESSURE RATING & SPANS

**INSTALLATIONS DETAILS
INTO WOOD**

SCALE: N.T.S.



**ALT TRACK ADAPTER MOUNTING INSTALLATION
SECTION 7BW (BOTTOM)**



**MOUNT TO WOOD STUDS MOUNTING INSTALLATION
SECTION 14W (BOTTOM)**

MAX. A.S.D. DESIGN PRESSURE RATING= +60.0, -60.0 PSF

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

No. 44107
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WALTER A. TILLIT JR. P.E.
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-106	6/23/2026	3	-	-
2	-	-	4	-	-

DRAWN BY: W.H.
6/23/2026 DATE
26-056
DRAWING No
SHEET 12 OF 13

MAXIMUM WIND PRESSURE (p.s.f.)
AND CORRESPONDING MAXIMUM
SLATS SPANS SCHEDULE.

WIND PRESSURE (+/-)	MAXIMUM SLATS SPANS Δ		MAX. ALLOWABLE REACTION AT TOP & BOTTOM
	POSITIVE PRESSURE (L+)	NEGATIVE PRESSURE (L-)	
30 psf	144.0"	144"	180 lb/ft
35 psf	60.0"	60"	88 lb/ft
	100.0"	100"	146 lb/ft
	144"	144"	210 lb/ft
40 psf	60.0"	60"	100 lb/ft
	100.0"	100"	167 lb/ft
	144"	144"	240 lb/ft
46 psf	60.0"	60.0"	115 lb/ft
	80.0"	80.0"	154 lb/ft
	97.0"	97.0"	187 lb/ft
	115.0"	115.0"	221 lb/ft
50 psf	144"	144"	276 lb/ft
	60.0"	60.0"	125 lb/ft
	89.0"	89.0"	187 lb/ft
	100.0"	100.0"	208 lb/ft
	120.0"	120.0"	250 lb/ft
55 psf	144"	140"	300 lb/ft
	60.0"	60.0"	138 lb/ft
	81.0"	81.0"	187 lb/ft
	100.0"	100.0"	229 lb/ft
	120.0"	120.0"	275 lb/ft
60 psf	137"	134"	330 lb/ft
	60.0"	60.0"	150 lb/ft
	80.0"	80.0"	200 lb/ft
	100.0"	100.0"	250 lb/ft
	115.0"	115.0"	288 lb/ft
65 psf	131"	128"	346 lb/ft
	59.0"	59.0"	160 lb/ft
	92.0"	92.0"	249 lb/ft
	100.0"	100.0"	271 lb/ft
70 psf	126"	123"	360 lb/ft
	60.0"	60.0"	175 lb/ft
	100.0"	100.0"	292 lb/ft
75 psf	121"	118"	374 lb/ft
	59.0"	59.0"	187 lb/ft
	100.0"	100.0"	313 lb/ft
80 psf	117"	114"	387 lb/ft
90 psf	113"	111"	400 lb/ft
100 psf	107"	104"	424 lb/ft
110 psf	101"	99"	447 lb/ft
120 psf	94"	90"	468 lb/ft
130 psf	87"	82"	484 lb/ft
140 psf	80"	76"	483 lb/ft
150 psf	74"	70"	484 lb/ft
160 psf	69"	66"	483 lb/ft
160 psf	65"	62"	483 lb/ft

Δ NOTES:
L+: MAXIMUM ALLOWABLE PRODUCT SPAN FOR A GIVEN POSITIVE A.S.D DESIGN PRESSURE RATING.
L-: MAX. ALLOWABLE PRODUCT SPAN FOR A GIVEN NEGATIVE A.S.D. DESIGN PRESSURE RATING.
FINAL MAXIMUM ALLOWABLE PRODUCT SPAN IS EQUAL TO THE MINIMUM DETERMINED PRODUCT SPAN BETWEEN "L+" AND "L-".

CONNECTION CAPACITY SCHEDULE
(MAX. ALLOWABLE REACTION TOP & BOTTOM LB/FT)
FOR MIN. EDGE DISTANCES SHOWN ON ANCHOR SCHEDULE

CON. TYPE	ANCHOR SPACING	CONCRETE ANCHOR TYPE		CONCRETE BLOCK ANCHOR TYPE	STEEL ANCHOR TYPE	WOOD ANCHOR TYPE
		A	B	A	E	A C F
C1	9	425 LB/FT	—	157 LB/FT	256 LB/FT	397 LB/FT
	6	473 LB/FT	—	236 LB/FT	383 LB/FT	432 LB/FT
C2	12	387 LB/FT	—	166 LB/FT	271 LB/FT	347 LB/FT
	9	456 LB/FT	—	250 LB/FT	318 LB/FT	380 LB/FT
C3	6	525 LB/FT	—	312 LB/FT	353 LB/FT	443 LB/FT
	9	390 LB/FT	—	157 LB/FT	257 LB/FT	329 LB/FT
	6	496 LB/FT	—	236 LB/FT	298 LB/FT	405 LB/FT
C4	3	813 LB/FT	—	326 LB/FT	418 LB/FT	631 LB/FT
	9	466 LB/FT	—	157 LB/FT	256 LB/FT	393 LB/FT
	6	592 LB/FT	—	236 LB/FT	357 LB/FT	483 LB/FT
C5	3	972 LB/FT	—	389 LB/FT	500 LB/FT	753 LB/FT
	9	281 LB/FT	—	81 LB/FT	143 LB/FT	103 LB/FT
C6	6	421 LB/FT	—	122 LB/FT	214 LB/FT	155 LB/FT
	3	843 LB/FT	—	243 LB/FT	432 LB/FT	311 LB/FT
	9	273 LB/FT	325 LB/FT	—	138 LB/FT	102 LB/FT
C7	6	410 LB/FT	487 LB/FT	—	207 LB/FT	153 LB/FT
	3	822 LB/FT	975 LB/FT	—	414 LB/FT	307 LB/FT
	4	269 LB/FT	301 LB/FT	—	114 LB/FT	153 LB/FT
C8	3	358 LB/FT	402 LB/FT	—	152 LB/FT	204 LB/FT
	2	—	—	—	—	305 LB/FT
	12	491 LB/FT	596 LB/FT	—	265 LB/FT	168 LB/FT
C8	8	736 LB/FT	894 LB/FT	—	397 LB/FT	252 LB/FT
	6	982 LB/FT	1194 LB/FT	—	530 LB/FT	336 LB/FT

MIN. SEPARATION TO GLASS SCHEDULE

SLAT SPAN	HIGH VELOCITY HURRICANE ZONE	NON HIGH VELOCITY HURRICANE ZONE Δ	
		ZONE 1,2,3	ZONE 4
5'-10" AS LESS	2 1/2"	1"	2 5/8"
>5'-10" TO 8'-3"	2 5/8" +	1"	2 3/4" +
>8'-3" TO 12'-0"	3 1/2"	1"	3 5/8"

Δ AS DEFINED BY ASTM E-1996 STANDARD.
+ EXCEPT THAT 3 5/8" SHALL BE USED FOR MOUNTINGS AS PER SECTIONS 3, 4, 4A & 7A.

CONNECTION CAPACITY SCHEDULE
(MAX. ALLOWABLE REACTION TOP & BOTTOM LB/FT)
FOR CONCRETE & CONCRETE BLOCK
FOR SHORTER E.D. (2" FOR A, 2 1/2" FOR B & 2 1/4" FOR C ANCHORS)
THAN MIN. E.D. SHOWN ON ANCHOR SCHEDULE

CONNECTION TYPE	ANCHOR SPACING	CONCRETE ANCHOR TYPE	
		A	B
C1	9	417 LB/FT	—
	6	461 LB/FT	—
C2	12	375 LB/FT	—
	9	417 LB/FT	—
C3	6	502 LB/FT	—
	9	372 LB/FT	—
	3	760 LB/FT	—
C4	9	445 LB/FT	—
	6	561 LB/FT	—
C5	3	912 LB/FT	—
	9	226 LB/FT	—
C6	6	339 LB/FT	—
	3	681 LB/FT	—
	9	221 LB/FT	251 LB/FT
C6	6	332 LB/FT	378 LB/FT
	3	663 LB/FT	756 LB/FT
C7	4	232 LB/FT	236 LB/FT
	3	310 LB/FT	315 LB/FT
C8	12	388 LB/FT	460 LB/FT
	8	582 LB/FT	691 LB/FT
	6	777 LB/FT	921 LB/FT

ANCHORS SCHEDULE Ω SEE GENERAL NOTE C.2 ON SHEET 1									
ANCHORS TYPE	ANCHORS DESCRIPTION	MIN. E.D.				MIN. SPACING			
		CONC.	C.BLOCK	WOOD	STEEL	CONC.	C.BLOCK	WOOD	STEEL
A	1/4"Ø ULTRACON+ OR ULTRACON SS4	3.50"	2.50"	Ω	N/A	4.00"	4.00"	N/A	N/A
B	1/4" Ø ELCO FEMALE PANEL MATE	3.50"	3.50"	N/A	N/A	3.00"	3.00"	N/A	N/A
E	1/4" Ø ITW-BUILDEX TEK SCREWS	N/A	N/A	N/A	1.00"	N/A	N/A	N/A	2.00"
F	#14 NDS S.S. WOOD SCREWS OR 1/4" NDS S.S. LAG SCREWS	N/A	N/A	Ω	N/A	N/A	N/A	2.00"	N/A

FLORIDA BUILDING CODE (High & Non High Velocity Hurricane Zone)

WALTER A. TILLIT JR.
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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