

GENERAL NOTES:

1. EXTRUDED BERTHA BAHAMA SHUTTER 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 BAHAMA SHUTTER SHALL NOT BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MIAMI-DADE/ BROWARD COUNTIES).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED REQUIRED BY THE JURISDICTION WHERE SHUTTER WILL BE INSTALLED. USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 7, 8 & 9.

IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL FIRST BE REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE WITH MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 7, 8 & 9.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS USED IN THEIR ANALYSIS. HOWEVER, FOR LAG SCREWS INTO WOOD, A 1.60 WIND LOAD DURATION FACTOR WAS USED TO CALCULATE SCREWS SPACINGS.

EXTRUDED BERTHA BAHAMA SHUTTER'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER ATL REPORTS #0923.01-97 AND #0309.01-04 AS PER TAS-201, TAS-202 AND TAS-203 PROTOCOLS. IMPACT MISSILE IS 9Lb, 2"X4", 50 ft/Sec.

2. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH Fy= 25.0 ksi MINIMUM (UNLESS OTHERWISE NOTED). ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.

3. ALL SCREWS SHALL BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH AND SHALL COMPLY WITH FLORIDA BUILDING CODE CODE SECTIONS 2411.3.3.4 & 1711.

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

5. ALL ALUMINUM POP RIVETS SHALL BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.

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

- (A) TO EXISTING POURED CONCRETE: (Min. f'c=3000 p.s.i)
- 1/4"Ø 410 SS TAPCON OR 1/4"Ø ULTRACON+ OR ULTRACON SS4 ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX OR DEWALT RESPECTIVELY.
 - 1/4"Ø ELCO FEMALE PANEL MATE ANCHORS AS MANUFACTURED BY ELCO CONSTRUCTIONS PRODUCTS.

NOTES:

A.1) MINIMUM EMBEDMENT OF 1/4"Ø ANCHORS INTO POURED CONCRETE IS 1 1/2".

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 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST AND 1" MINIMUM FOR WALLS WITH NO STUCCO.

A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES A.1) & A.2) ABOVE.

(B) TO EXISTING CONCRETE BLOCK WALL:

- 1/4" Ø 410 SS TAPCON OR 1/4" Ø ULTRACON+ OR ULTRACON SS4 ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX OR DEWALT RESPECTIVELY.
- 1/4" Ø ELCO FEMALE PANEL MATE ANCHORS AS MANUFACTURED BY ELCO CONSTRUCTIONS PRODUCTS.

NOTES:

B.1) MINIMUM EMBEDMENT OF 1/4" Ø ANCHORS INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".

B.2) ELCO FEMALE PANEL MATE ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST AND 1" MINIMUM FOR WALLS WITH NO STUCCO.

B.3) 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) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300 ft FROM COASTAL SHORELINE.

7. EACH SHUTTER SHALL HAVE A LEGIBLE AND READILY VISIBLE MARKING INSTRUCTING OWNER OR TENANT TO SECURE SHUTTER WITH SIDE & SILL BRACKETS DURING PERIODS OF HURRICANE WARNINGS.

8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE THE SHUTTER IS TO BE ATTACHED TO ENSURE PROPER ANCHORAGE. THE 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.

9. BERTHA BAHAMA SHUTTER'S INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE A PERMIT IS APPLIED FOR.

10. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED AT A READILY VISIBLE LOCATION ON THE SURFACE OF THE BAHAMA FRAME (E) OR (F) IN ACCORDANCE WITH SECTION 1709.9.2 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.

11. (a) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; i. e. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.

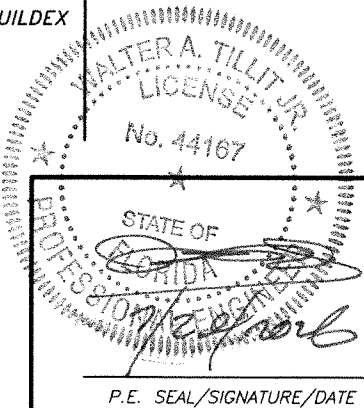
(b) THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT, BASED ON THIS PRODUCT EVALUATION DOCUMENT, PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(c) THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

(d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHO WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THE LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(e) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

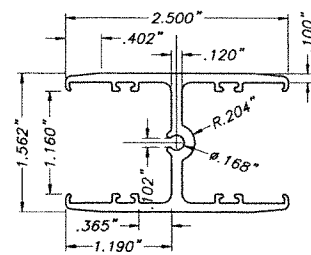
THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA



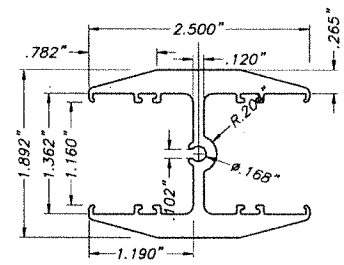
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TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
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e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

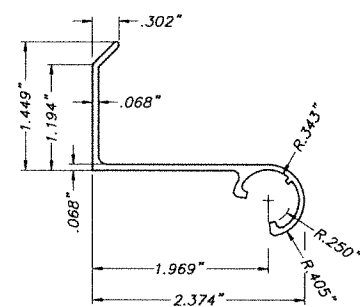
COMBINATION DRAWING:					
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)					
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC.				6/30/2026 DATE:	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380				26-102 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3	-	-
2			4	-	-
					SHEET 1 OF 33



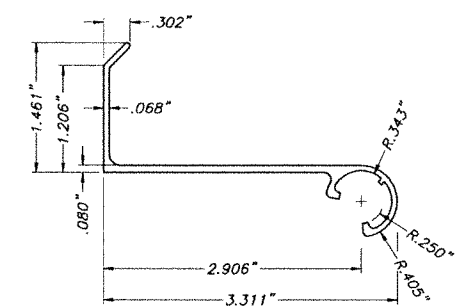
(A1) REGULAR INTERIOR MULLION
6005-T5 Alum. ALLOY
SCALE: 1/2" = 1"



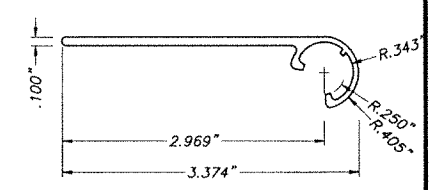
(A2) HEAVY INTERIOR MULLION
6005-T5 Alum. ALLOY
SCALE: 1/2" = 1"



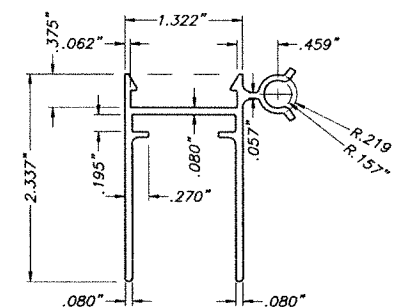
(B) FEMALE HINGE
SCALE: 1/2" = 1"



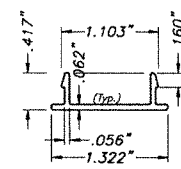
(C) 1" B. O. FEMALE HINGE
SCALE: 1/2" = 1"



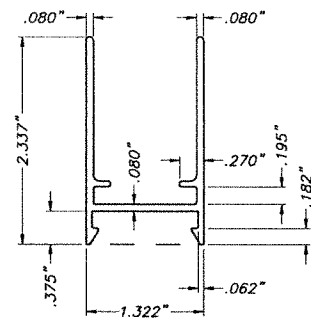
(D) FLAT FEMALE HINGE
SCALE: 1/2" = 1"



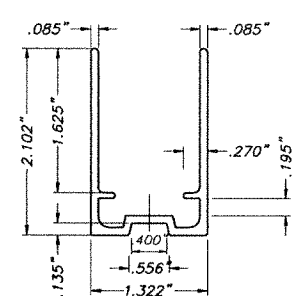
(E) BAHAMA MALE TOP FRAME
SCALE: 1/2" = 1"



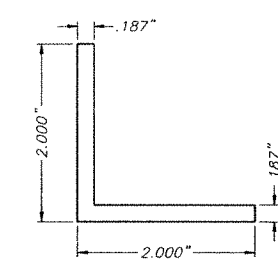
(F) SNAP CAP
SCALE: 1/2" = 1"



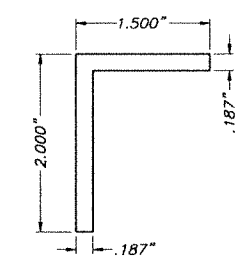
(G) BAHAMA FRAME
SCALE: 1/2" = 1"



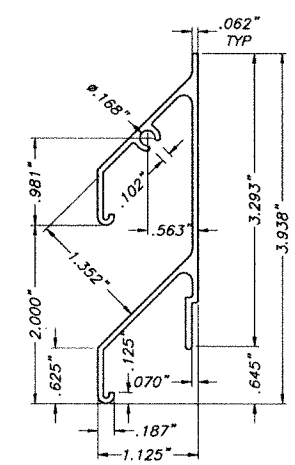
(G1) ALTERNATE BAHAMA FRAME
SCALE: 1/2" = 1"



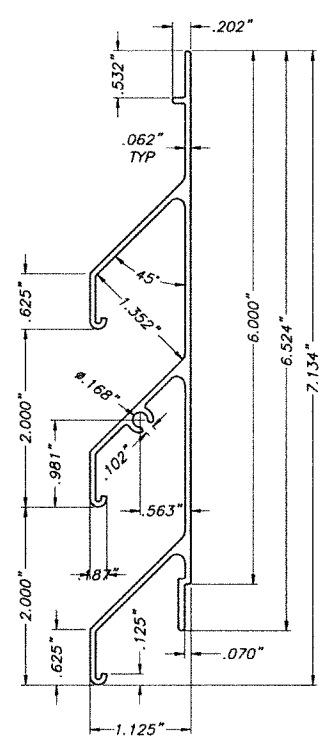
(H) CORNER KEY
1" LONG
SCALE: 1/2" = 1"



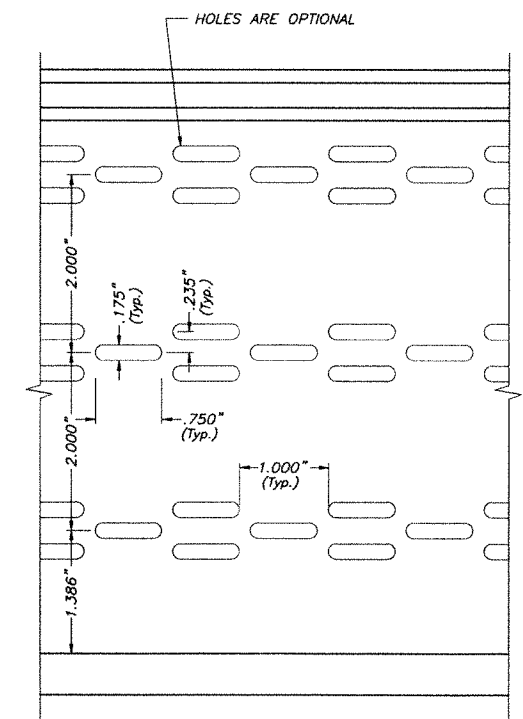
(N) WALL MOUNT Alum. BRACKET
7" LONG
SCALE: 1/2" = 1"



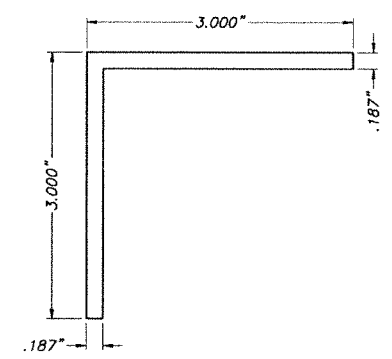
(I) HALF SHUTTER BLADE
SCALE: 1/2" = 1"



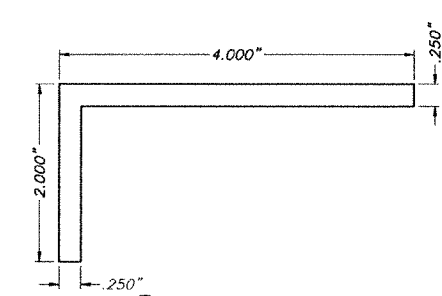
(J) SHUTTER BLADE
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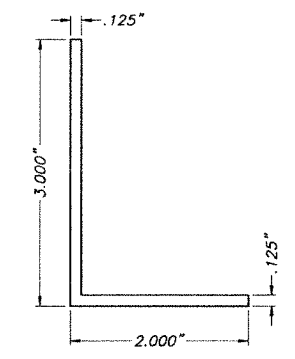
SHUTTER BLADE ELEVATION
SCALE: 1/2" = 1"



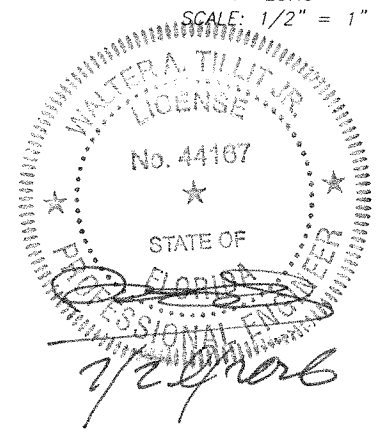
(O) BUILD-OUT Alum. BRACKET
7" LONG
SCALE: 1/2" = 1"



(P) BUILD-OUT SIDE BRACKET
7" LONG
SCALE: 1/2" = 1"



(Q) SILL ANGLE
SCALE: 1/2" = 1"



COMPONENTS

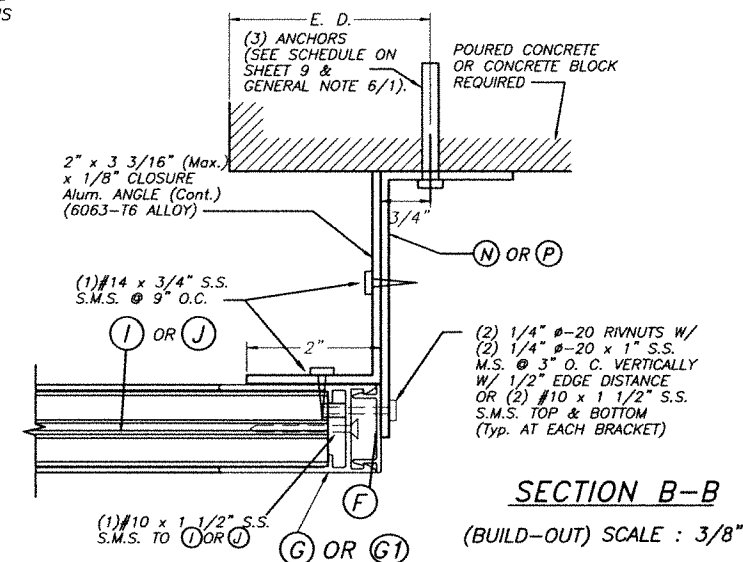
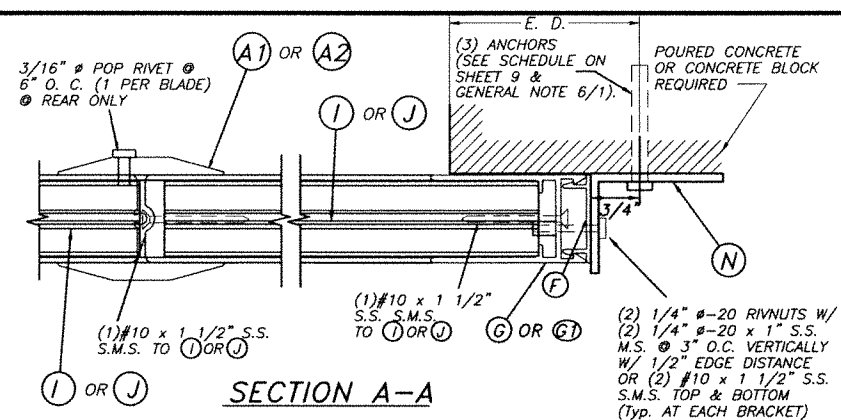
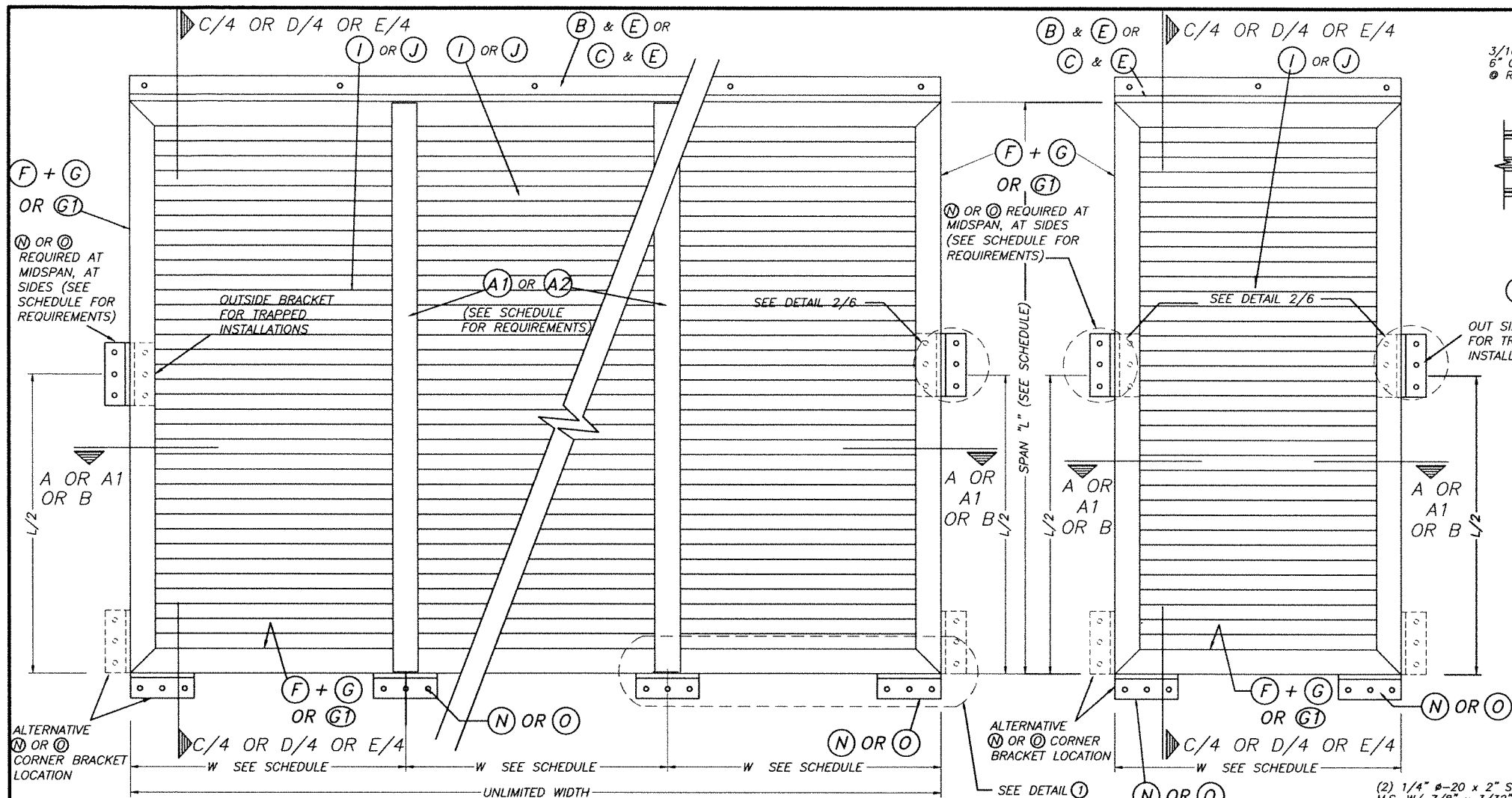
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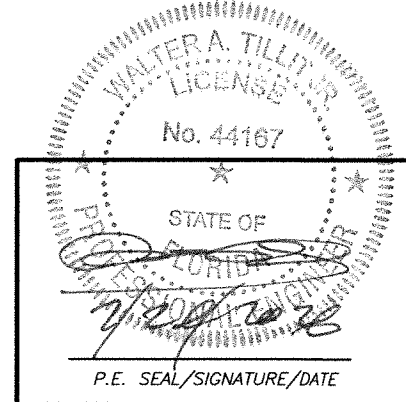
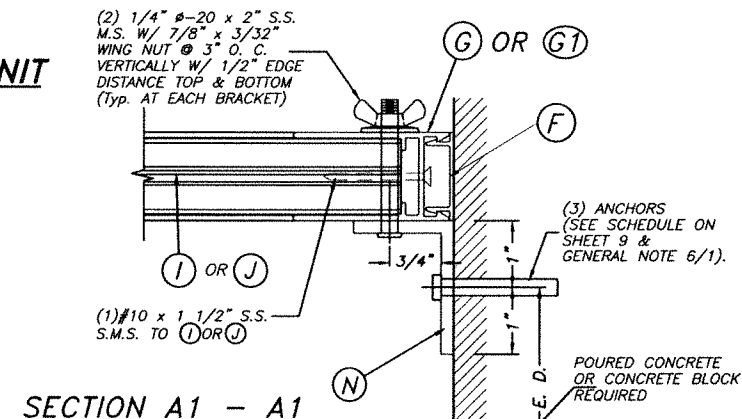
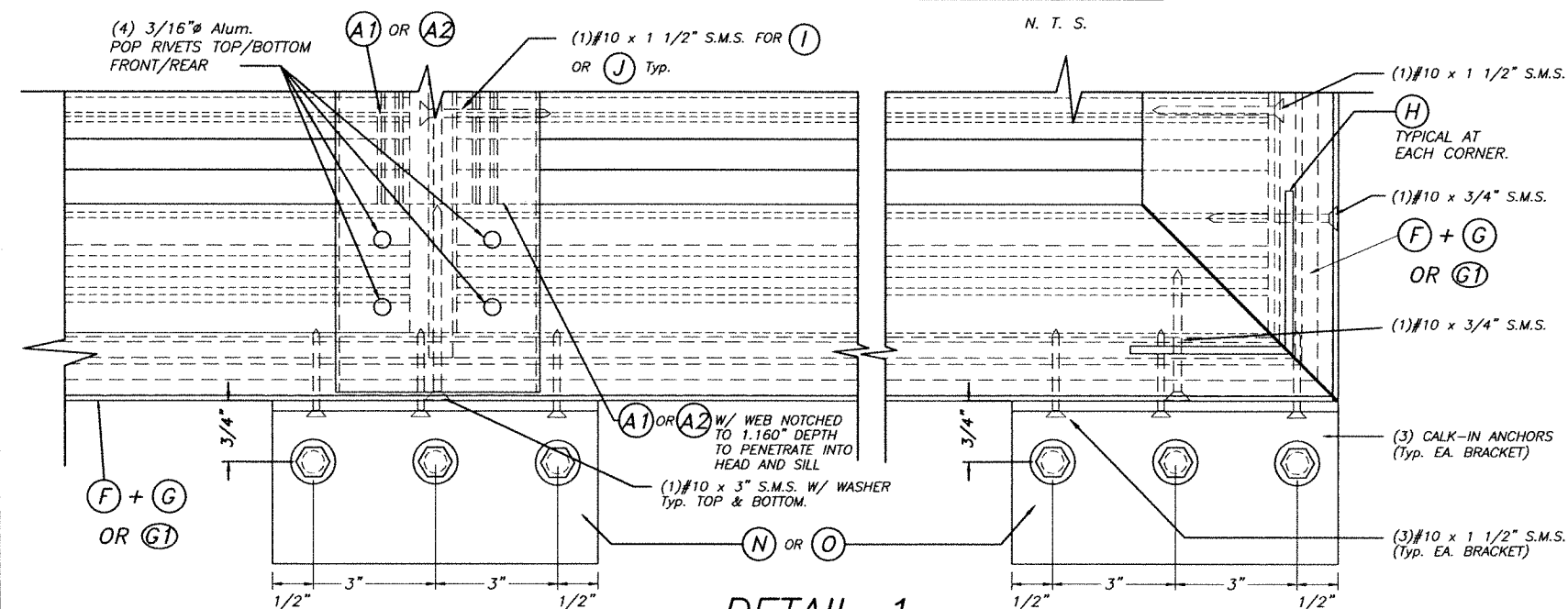
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CA-0006719
WALTER A. TILLIT JR., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

COMBINATION DRAWING:					
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)					
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC.				6/30/2026 DATE:	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380				26-102 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3	-	-
2			4	-	-
					SHEET 2 OF 33



NOTE:
E. D. = 3 1/2" Min.



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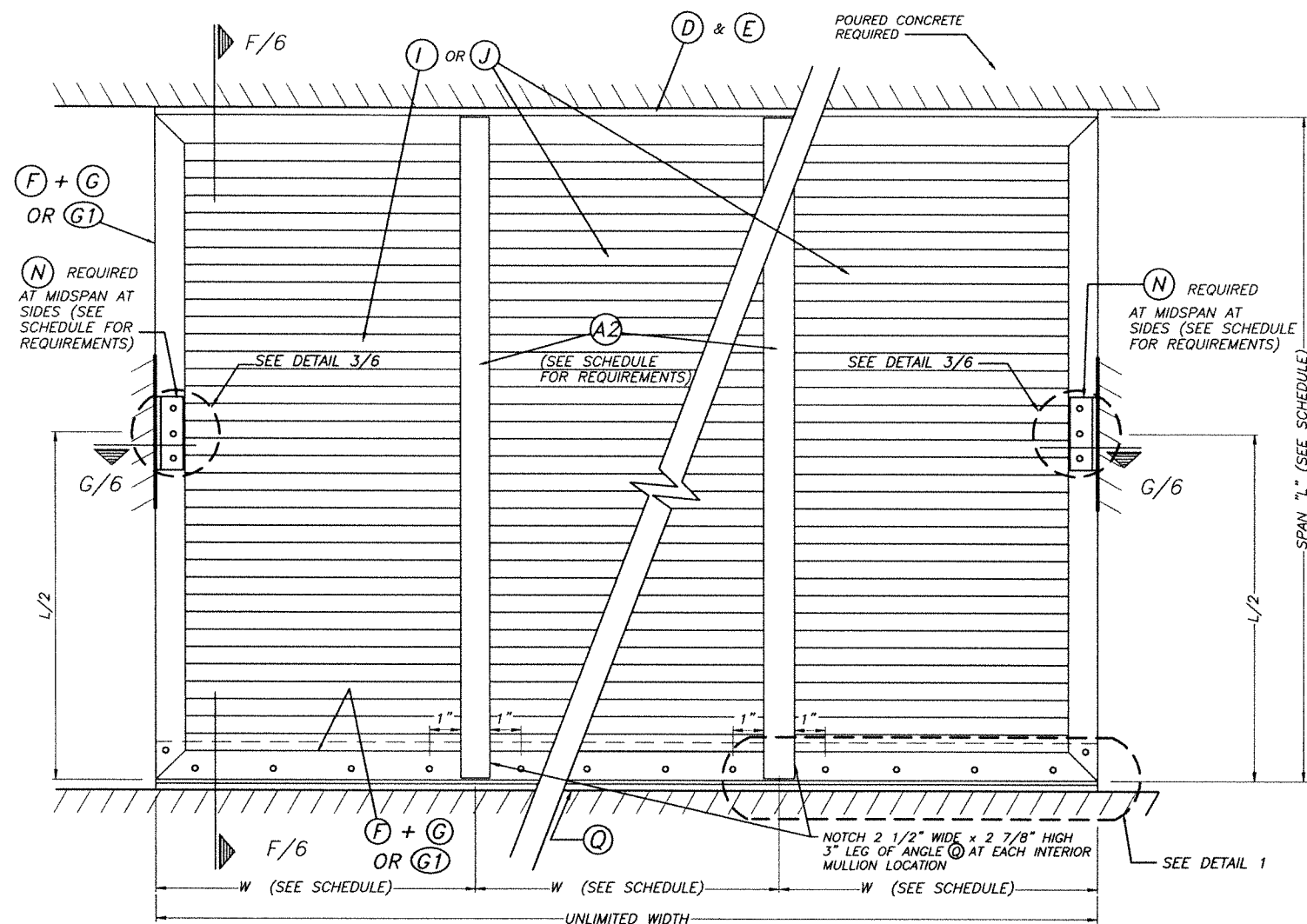
TILTECO INC.

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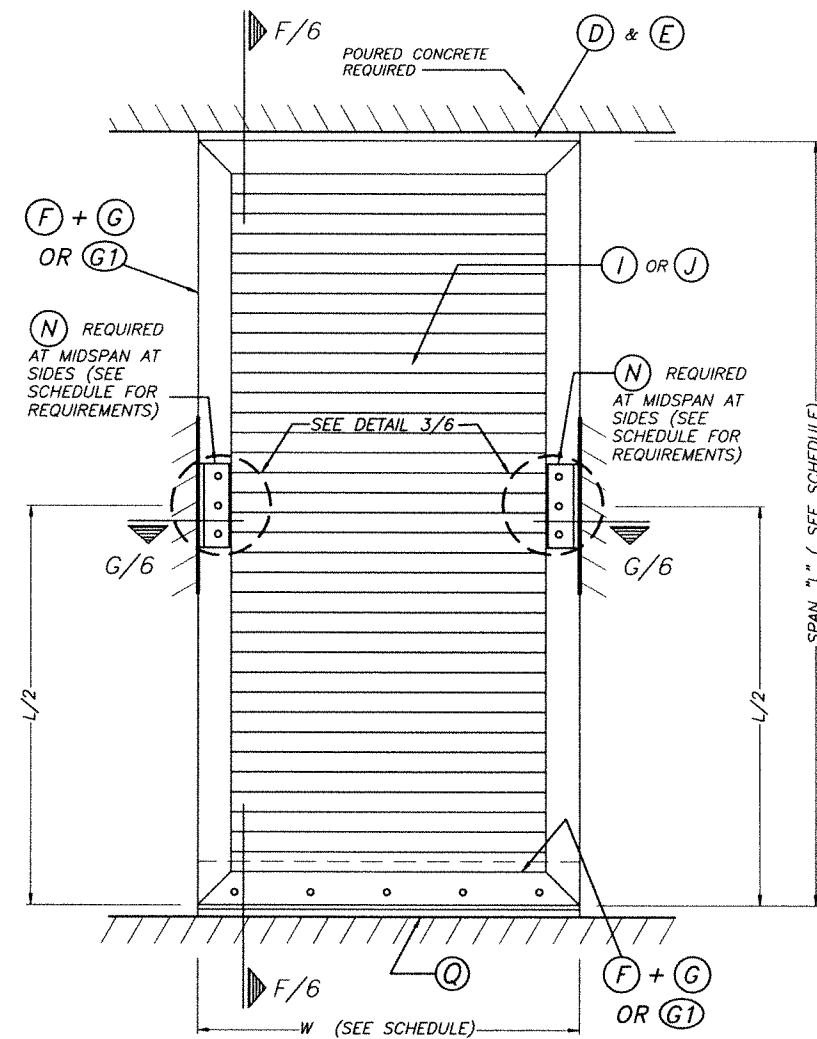
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

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ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
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ASSA / EXTRUDED BERTHA BAHAMA SHUTTER	W.H. DRAWN BY:
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REV. No DESCRIPTION DATE REV. No DESCRIPTION DATE	SHEET 3 OF 33
1 OLD 23-131 6/30/26 3	
2	



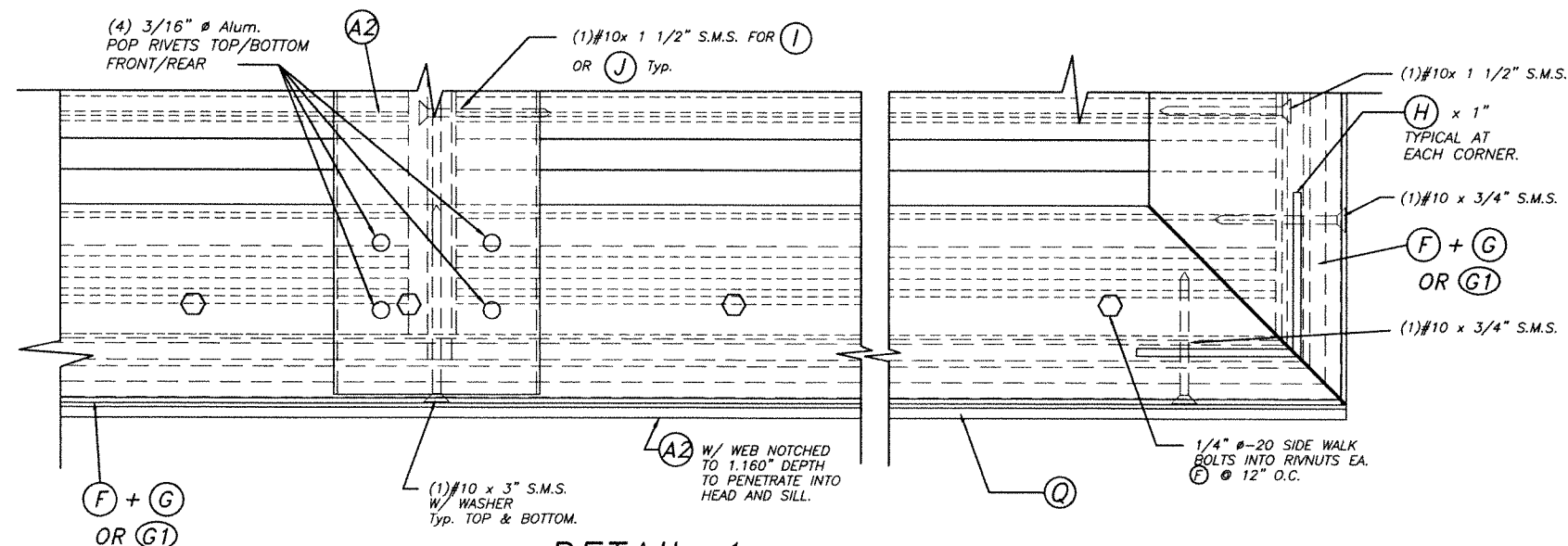
MULTIPLE UNIT



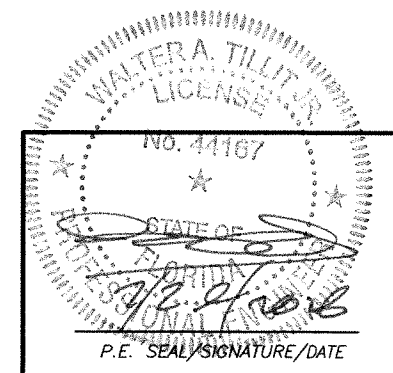
SINGLE UNIT

ELEVATIONS

N. T. S.



DETAIL 1
SCALE : 1/2" = 1"



FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

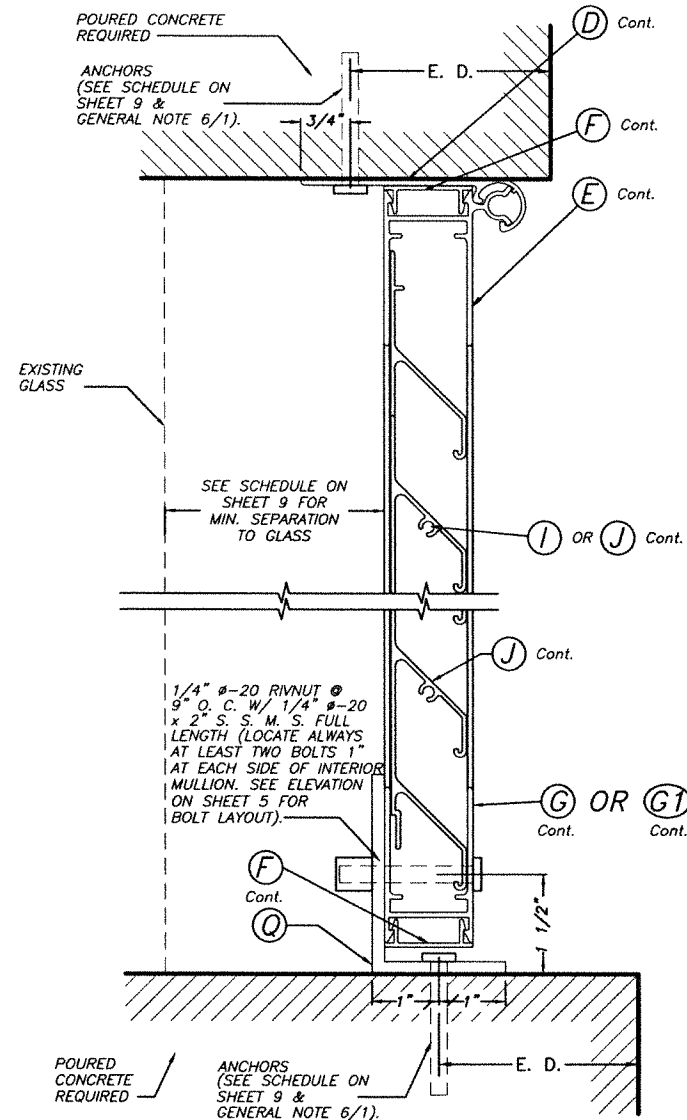
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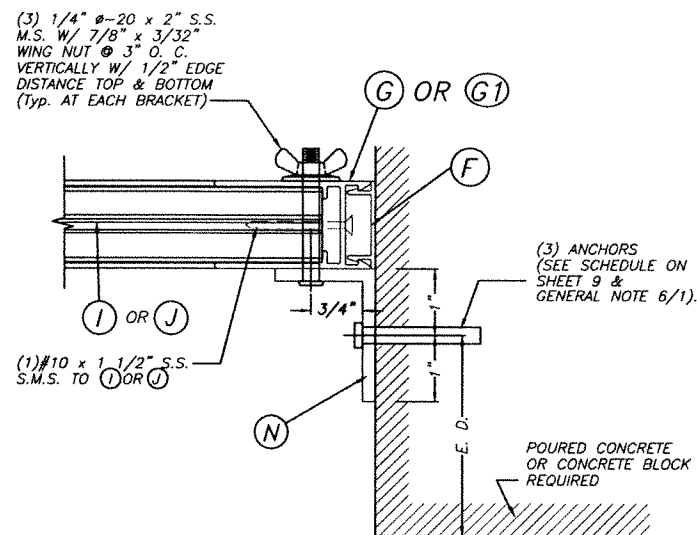
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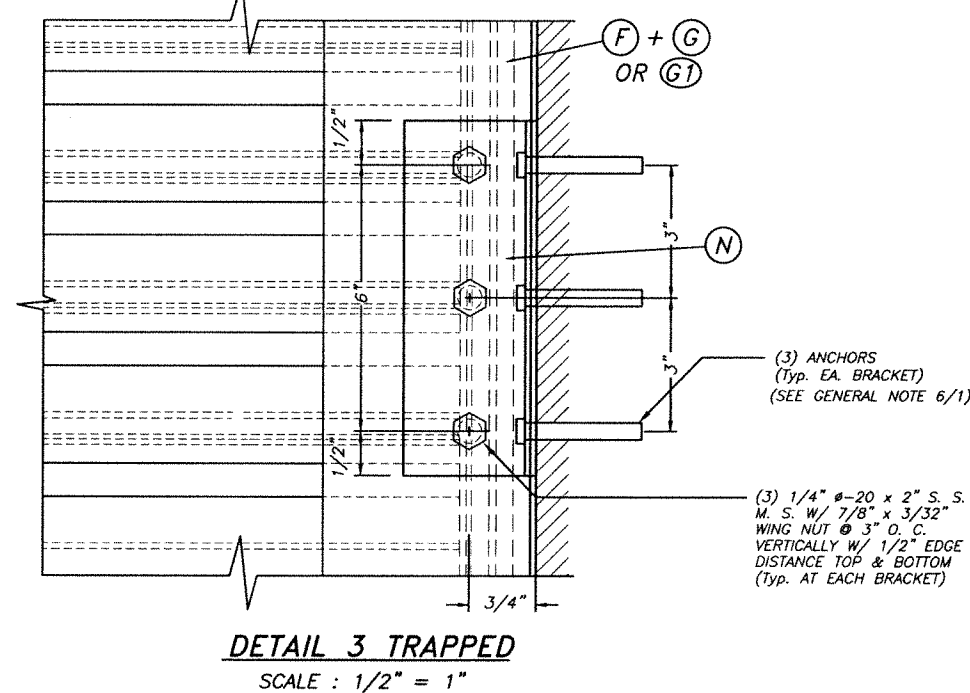
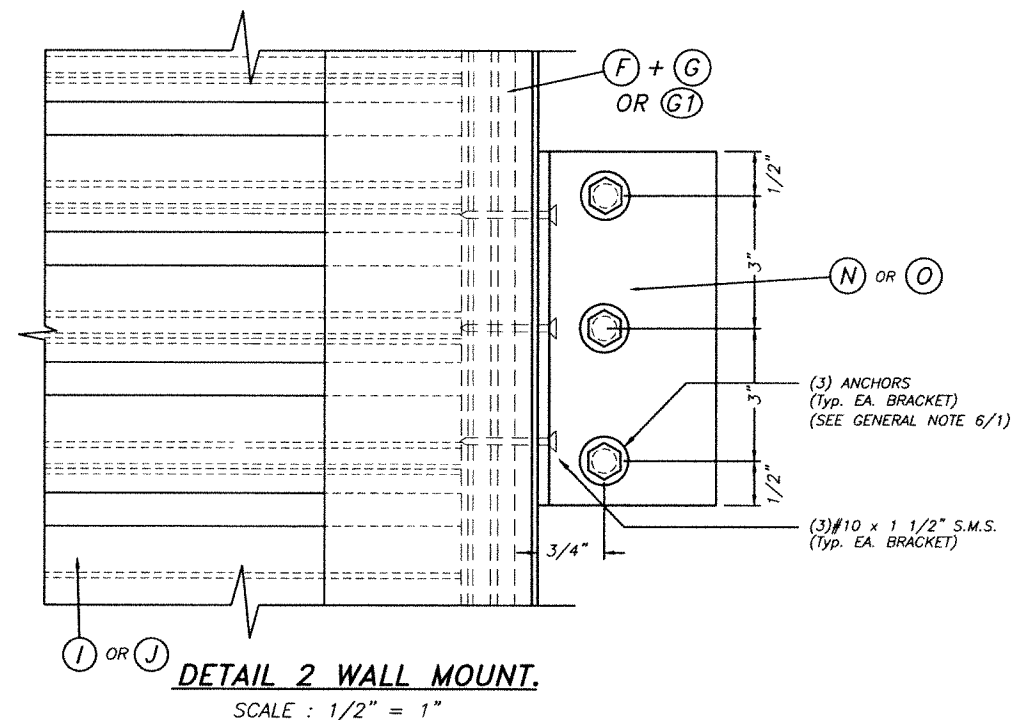


SECTION F - F (TRAPPED MOUNT)
HURRICANE POSITION
SCALE: 3/8" = 1"



SECTION G - G (TRAPPED MOUNT)
HURRICANE POSITION
SCALE: 3/8" = 1"

NOTE:
E. D. = 3 1/2" Min.



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

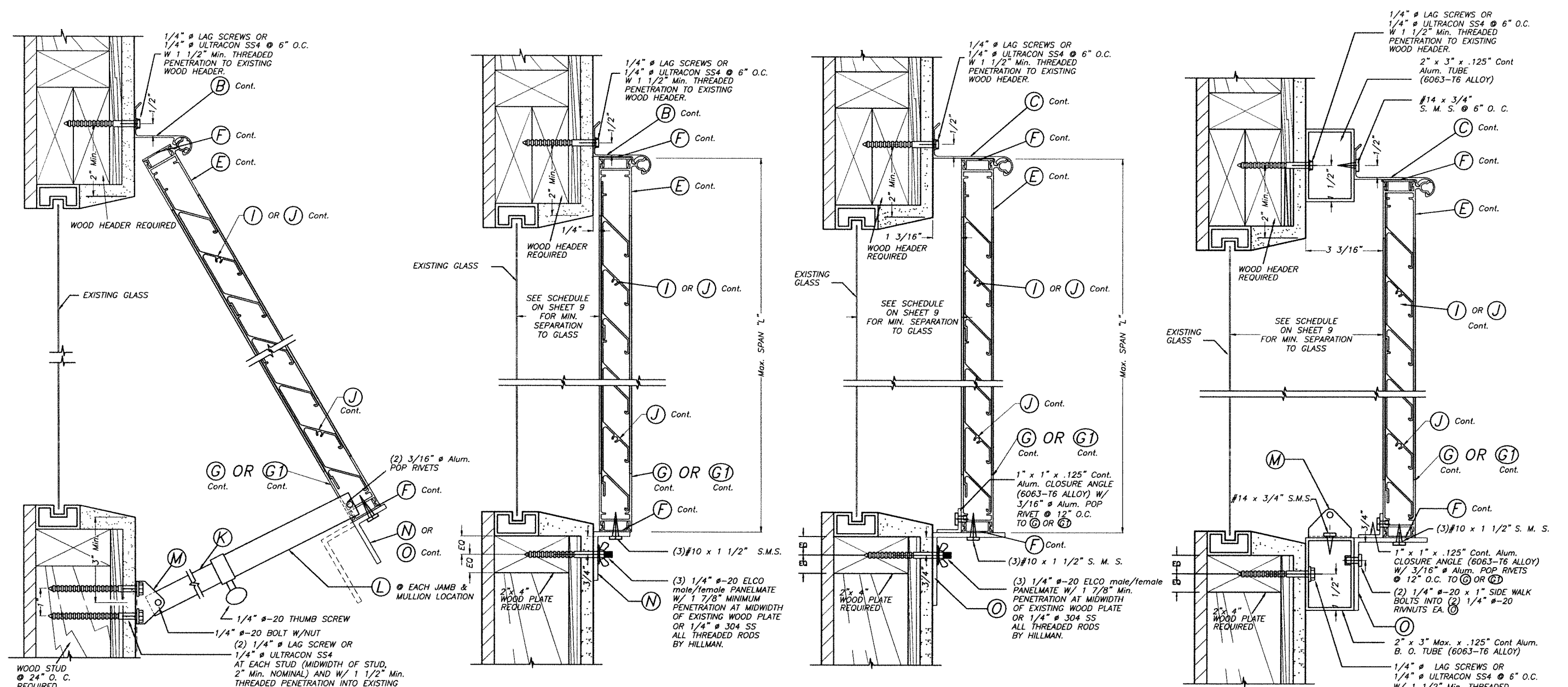
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COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

ASSA / EXTRUDED BERTHA BAHAMA SHUTTER			W.H. DRAWN BY:		
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3	-	-
2	-	-	4	-	-

SHEET 6 OF 33



NON HURRICANE POSITION DETAIL: (74 m.p.h. OR LESS WIND SPEED)
SCALE: 3/8" = 1"

ALTERNATIVE 1
HURRICANE POSITION
SCALE: 3/8" = 1"

ALTERNATIVE 2
HURRICANE POSITION
SCALE: 3/8" = 1"

ALTERNATIVE 3
HURRICANE POSITION
SCALE: 3/8" = 1"

WALL MOUNTING INSTALLATION & BUILD-OUT
- SECTION A

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

- NOTES:**
1. INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH MAX. A.S.D. DESIGN PRESSURE RATING LESS OR EQUAL THAN +62.0, -75.0 p.s.f. AND MAX. SHUTTER SPAN AS PER SCHEDULES ON SHEET 9.
 2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.
 3. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300 ft FROM COASTAL SHORELINE.

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

ASSA / EXTRUDED BERTHA BAHAMA SHUTTER				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC.				6/30/2026	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (800)432-2204 FAX: (561)209-8380				DATE:	
				26-102	
				DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3	-	-
2			4	-	-
				SHEET 7 OF 33	

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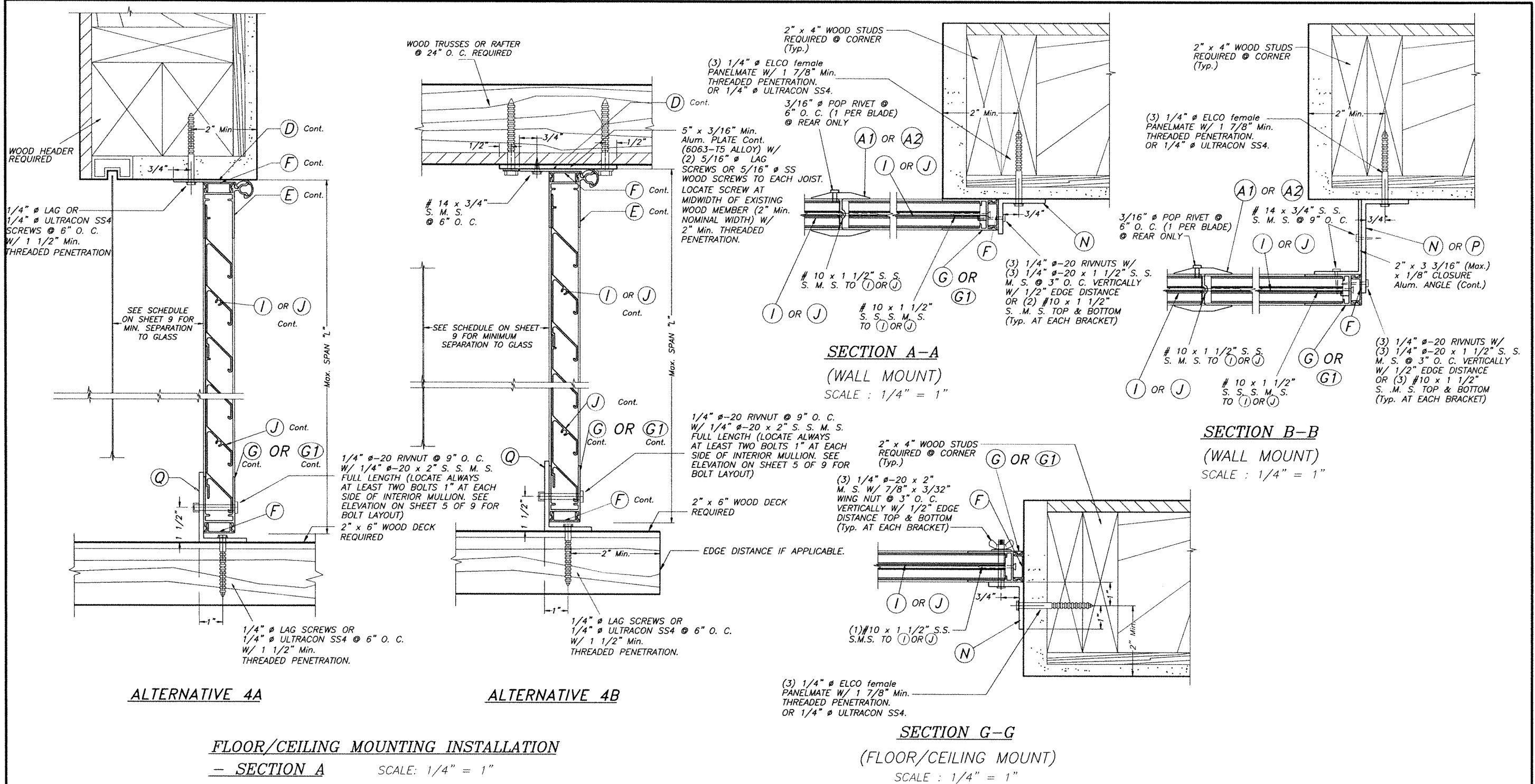
TILTECO INC.

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

NO. 44167

7/20/2026

P.E. SEAL/SIGNATURE/DATE



- NOTES :**
1. INSTALLATIONS ARE ONLY VALID FOR INSTALLATIONS WITH MAX. A.S.D. DESIGN PRESSURE RATING LESS OR EQUAL THAN +62.0, -75.0 p.s.f. AND Max. SHUTTER SPAN AS PER SCHEDULES ON SHEET 9.
 2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.
 3. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300 FT FROM COASTAL SHORELINE.

WALTER A. TILLIT, P.E.
No. 44167
STATE OF FLORIDA
7/29/2016
P.E. SEAL/SIGNATURE/DATE

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FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
COMBINATION DRAWING:					
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)					
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC.				6/30/2026 DATE:	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380				26-102 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3	-	-
2	-	-	4	-	-
SHEET 8 OF 33					

SCHEDULE # 1

MAXIMUM SINGLE UNIT FOR A CORRESPONDING A.S.D. DESIGN PRESSURE RATING AND MOUNTING TYPE

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CASE #	MAXIMUM UNIT WIDTH "W" (IN)	MAXIMUM SPAN "L" (IN)		
		W/O SIDE BRACKET	W/ SIDE BRACKET	MINIMUM SEPARATION TO GLASS (IN)
CASES I & II +56.0 , -63.0	42"	52"	N/A	3 1/8"
CASES I & II +75.0 , -100.0	42"	N/A	96"	2 1/8"

SCHEDULE # 2

LIMITATIONS FOR SINGLE AND MULTIPLE UNITS BAHAMA SHUTTER'S UNIT WIDTH (IN), SPAN L (IN) AND CORRESPONDING MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.) FOR THE INSTALLATION OF SIDE & SILL BRACKETS INTO CONCRETE & MASONRY BUILDINGS BY MEANS OF (3) 1/4" Ø ELCO FEMALE PANEL MATES OR 1/4" Ø SS ALL THREADED RODS ANCHORS *

MAXIMUM NEGATIVE A.S.D. DESIGN PRESSURE RATING (p.s.f.)	SINGLE UNITS				MULTIPLE UNITS			
	SIDE & SILL BRACKETS **				SIDE & SILL BRACKETS **			
	TO CONCRETE		TO BLOCK		TO CONCRETE		TO BLOCK	
	Max. "W"	Max. "L"	Max. "W"	Max. "L"	Max. "W"	Max. "L"	Max. "W"	Max. "L"
-55.7	42"	96"	42"	96"	36 1/2"	84"	36"	84"
-65.0	42"	96"	42"	96"	36 1/2"	84"	36"	72"
-75.0	42"	96"	42"	96"	36 1/2"	83"	31"	84"
-83.0	42"	96"	42"	96"	36 1/2"	83"	36 1/2"	62"
-100.0	42"	96"	42"	63	N/A	N/A	27"	83"
			36"	73	N/A	N/A	N/A	N/A

* FOR ELCO PANELMATES ((3) 1/4" Ø OR 1/4" Ø 304 SS ALL THREADED RODS W/ WING NUTS (BY HILLMAN) W/ 1 7/8" PENETRATION)

USED AT SILL & SIDE BRACKETS FOR INSTALLATIONS INTO WOOD. SEE SCHEDULES # 1 & # 1A FOR SHUTTER SIZE.

** IN ANY CASE, MAXIMUM "W" & "L" VALUES W/ CORRESPONDING A.S.D. DESIGN PRESSURE RATING SHALL NOT EXCEED MAXIMUM VALUES INDICATED ON SCHEDULES # 1 & 1A.

SCHEDULE # 1A

MAXIMUM MULTIPLE UNIT FOR A CORRESPONDING A.S.D. DESIGN PRESSURE RATING AND MOUNTING TYPE

MAX. A.S.D. DESIGN PRESSURE RATING (p.s.f.) AND CASE #	MAXIMUM UNIT WIDTH "W" (IN)	MAXIMUM SPAN "L" (IN)			
		W/O SIDE BRACKET	W/ SIDE BRACKET	INTERIOR MULLION TYPE REQUIRED	MINIMUM SEPARATION TO GLASS (IN)
CASE I +50.0 , -43.3	36 1/2"	72 1/2"	N/A	A1	2 1/2"
CASE I +62.0 , -75.0	36 1/2"	N/A	83"	A2	2 3/8"
CASE II +62.0 , -75.0	36 1/2"	N/A	84"	A2	2 3/8"

SCHEDULE # 3

MAXIMUM ANCHOR SPACING AT TOP FEMALE HINGES (B), (C), OR (D) AS WELL AS SILL ANGLE (Q) AT BOTTOM (AS APPLICABLE) FOR INSTALLATIONS INTO POURED CONCRETE HEADERS AND SILL ***

MAXIMUM A.S.D. DESIGN PRESSURE RATING (p. s. f.)	SINGLE & MULTIPLE UNITS
	TOP & BOTTOM TO CONCRETE
ALL PRESSURES COVERED IN SCHEDULE # 1 & # 1A	9" O.C. TOP & 7" O.C. BOTTOM.

*** SEE SHEETS 7 & 8 FOR ANCHOR SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

ASSA / EXTRUDED BERTHA BAHAMA SHUTTER			W.H. DRAWN BY:		
AMERICAN SHUTTER SYSTEMS ASSOC., INC.			6/30/2026 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380			26-102 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3	-	-
2			4	-	-
			SHEET 9 OF 33		

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

FLORIDA
Professional Engineer
WALTER A. TILLIT Jr., P.E.
No. 44167
6/2/2026
P.E. SEAL/SIGNATURE/DATE

GENERAL NOTES:

1. COLONIAL SHUTTER 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 COLONIAL SHUTTER SHALL NOT BE INSTALLED AT HIGH VELOCITY HURRICANE ZONES (MIAMI DADE/BROWARD COUNTY).

DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1609 OF THE ABOVE MENTIONED CODE, FOR A BASIC WIND SPEED REQUIRED BY THE JURISDICTION WHERE THE SHUTTER WILL BE INSTALLED. USING ASCE 7-22 AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 13, 14, 22 & 28. IN ORDER TO VERIFY THE ABOVE CONDITION, ULTIMATE DESIGN WIND LOADS DETERMINED PER ASCE 7-22 SHALL FIRST BE REDUCED TO A.S.D. DESIGN WIND LOADS BY MULTIPLYING THEM BY 0.6 IN ORDER TO COMPARE THESE WITH MAX. (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON SHEETS 13, 14, 22 & 28.

IN ORDER TO VERIFY THAT ANCHORS ON THIS P.E.D., AS TESTED, WERE NOT OVERSTRESSED, A 33% INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS USED IN THEIR ANALYSIS. HOWEVER, FOR LAG SCREWS INTO WOOD, A 1.60 WIND LOAD DURATION FACTOR WAS USED TO CALCULATE SCREWS SPACINGS.

COLONIAL SHUTTER'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE MENTIONED CODE AS PER ATL REPORTS #0624.01-98R, #1005.01-00, #0309.01-04 AND 0926.01-07 AS PER TAS-201, TAS-202 AND TAS-203 PROTOCOLS. IMPACT MISSILE IS 9Lb, 2"x4", 50 ft/Sec.

2. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH Fy= 25.0 ksi MINIMUM YIELD STRENGTH (UNLESS OTHERWISE NOTED). ALL ALUMINUM EXTRUSIONS IN CONTACT WITH DISSIMILAR MATERIALS SHALL COMPLY WITH SECTION III-6 OF THE 2020 ALUMINUM DESIGN MANUAL.
3. ALL SCREWS SHALL BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018 WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTIONS 2411.3.3.4 & 1711.
4. BOLTS SHALL BE ALUMINUM ASSOCIATION 2024-T4 ALLOY AND TEMPER, ASTM A-307 GALVANIZED STEEL, OR AISI 304 SERIES STAINLESS STEEL WITH 35 ksi MINIMUM YIELD STRENGTH.
5. ALL ALUMINUM POP RIVETS SHALL BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.
6. ANCHORS TO WALL SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED) SEE DETAILS FOR APPLICABILITY:

- (A) TO EXISTING POURED CONCRETE: (Min f'c= 3000 p.s.i)
- 1/4"Ø 410 SS TAPCON OR 1/4"Ø ULTRACON+ OR ULTRACON SS4 OR 1/4"Ø 304 SS ALL THREADED RODS BY HILLMAN ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX, INC OR DEWALT RESPECTIVELY.
 - 1/4"Ø ELCO FEMALE PANEL MATE ANCHORS AS MANUFACTURED BY ELCO CONSTRUCTIONS PRODUCTS.

- NOTES:
- A.1) MINIMUM EMBEDMENT OF 1/4"Ø ANCHORS INTO POURED CONCRETE IS 1 1/2".
- 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 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- A.3) IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES A.1) & A.2) ABOVE.

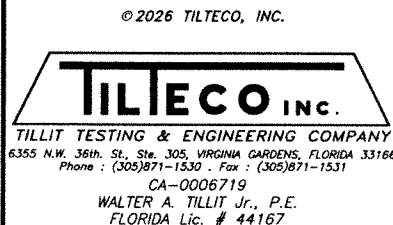
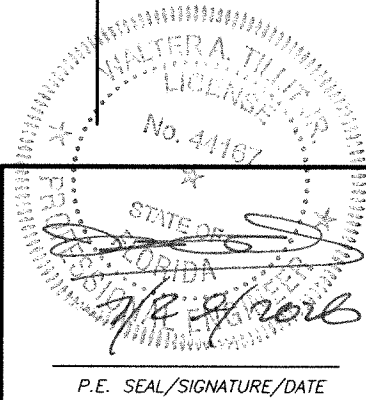
- (B) TO EXISTING CONCRETE BLOCK WALL: (Min. f'c= 1500 psi)
- 1/4"Ø SS TAPCON OR 1/4"Ø ULTRACON+ OR ULTRACON SS4 OR 1/4"Ø 304 SS ALL THREADED RODS BY HILLMAN ANCHORS AS MANUFACTURED BY I.T.W. BUILDEX, INC OR DEWALT RESPECTIVELY.
 - 1/4"Ø ELCO FEMALE PANEL MATE ANCHORS AS MANUFACTURED BY ELCO CONSTRUCTIONS PRODUCTS.

- NOTES:
- B.1) MINIMUM EMBEDMENT OF 1/4"Ø ANCHORS INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".
- B.2) ELCO FEMALE PANEL MATE ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- B.3) 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.

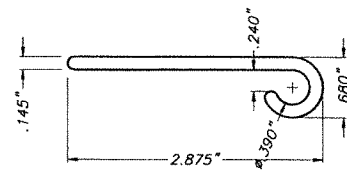
- (C) TO EXISTING WOOD (MIN. SPECIFIC GRAVITY, G=0.55 MIN.) FRAME BUILDING. ANCHORAGE SHALL BE PERFORMED THROUGH ANY FINISH MATERIAL AT WALL LIKE BRICK VENEER, PLYWOOD, STUCCO OR ANY OTHER FINISH. -1/4" Ø 410 SS TAPCON OR 1/4"Ø ULTRACON+ OR ULTRACON SS4 ANCHORS MANUFACTURED BY I.T.W. BUILDEX OR DEWALT RESPECTIVELY, OR 1 1/4Ø SS WOOD SCREWS OR LAG SCREWS (NDS 2024). USE TAPCON OR ULTRACON ANCHORS FOR INSTALATIONS WITH STORM BARS AND USE LAG SCREWS OR WOOD SCREWS FOR INSTALLATIONS WITHOUT STORM BARS.

NOTE:
C.1) MINIMUM THREADED PENETRATION INTO WOOD FOR 1/4" Ø ANCHORS IS 1 1/2" MIN.

- (D) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER. ONLY STAINLESS STEEL ANCHORS ARE ALLOWED AT INSTALLATIONS WITHIN 300 ft FROM COASTAL SHORELINE.
7. EACH SHUTTER SHALL HAVE A LEGIBLE AND READILY VISIBLE MARKING INSTRUCTING OWNER OR TENANT TO SECURE SHUTTER WITH HEAD & SILL BRACKETS WHEN USED W/O STORM BARS OR TO SECURE SHUTTERS W/ STORM BARS AND SAFETY BOLTS DURING PERIODS OF HURRICANE WARNINGS.
8. OWNER TO BE RESPONSIBLE FOR PROVIDING A SUITABLE PLATFORM OR BALCONY WHEN SECURING UNIT DURING HURRICANE WARNINGS.
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. CONTRACTOR TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION. CAULK AND SEAL SHUTTER TRACKS ALL AROUND FULL LENGTH.
10. BERTHA COLONIAL SHUTTER'S INSTALLATION SHALL COMPLY WITH SPECS INDICATED IN THIS DRAWING PLUS ANY BUILDING AND ZONING REGULATIONS PROVIDED BY THE JURISDICTION WHERE A PERMIT IS APPLIED FOR.
11. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED AT A READILY VISIBLE LOCATION ON THE SURFACE OF THE COLONIAL FRAME (E) OR (E) IN ACCORDANCE WITH SECTION 1709.9.2 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.
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 CONDITION DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.
- (c) THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.
- (d) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHO WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER, SHALL SUBMIT TO THE LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- (e) ORIGINAL P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD WHO PREPARED IT.

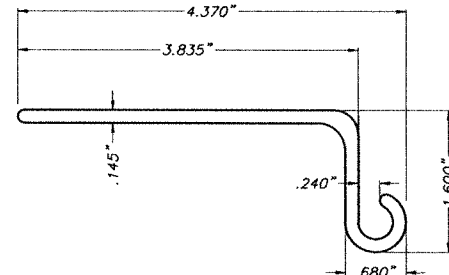


FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
COMBINATION DRAWING:					
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (WITH CLIPS OR STORM BARS)				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC.				6/30/2026 DATE:	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380				26-102 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		
				SHEET 10 OF 33	



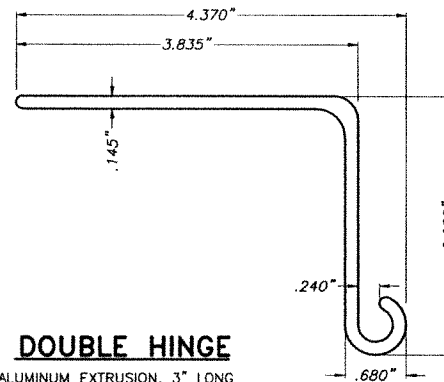
B FLAT HINGE

ALUMINUM EXTRUSION 3" LONG AT
D OR C: 1 1/2" LONG @ PANEL JOINTS



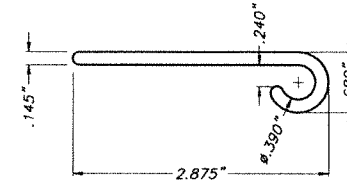
C SINGLE HINGE

ALUMINUM EXTRUSION, 3" LONG



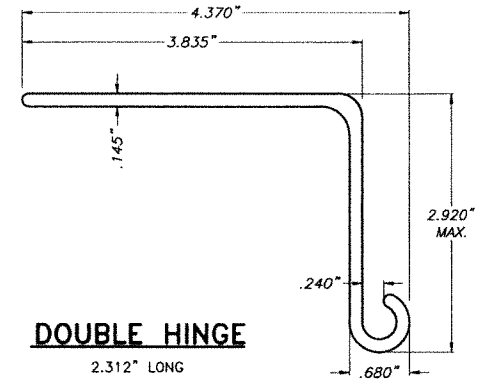
D DOUBLE HINGE

ALUMINUM EXTRUSION, 3" LONG



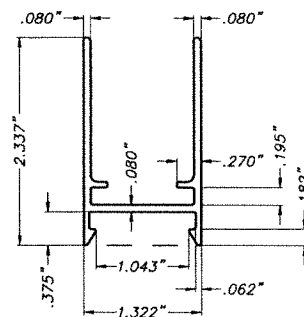
B' FLAT HINGE

2.375" LONG
ALUMINUM EXTRUSION



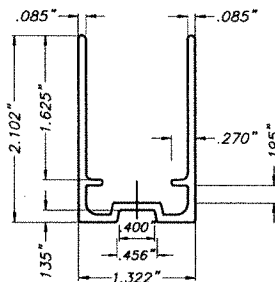
D' DOUBLE HINGE

2.312" LONG
ALUMINUM EXTRUSION



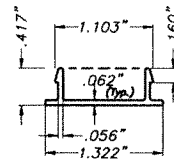
E COLONIAL FRAME

ALUMINUM EXTRUSION



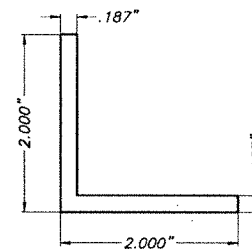
E1 ALTERNATE COLONIAL FRAME

ALUMINUM EXTRUSION



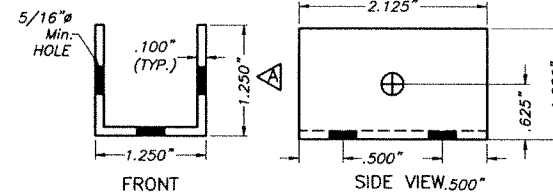
F SNAP CAP

ALUMINUM EXTRUSION



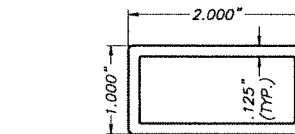
G CORNER KEY

1 1/8" LONG
ALUMINUM EXTRUSION



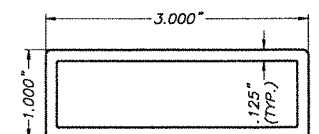
N H.V. STORM BAR CLIP

2 1/8" LONG.
ALUMINUM EXTRUSION



O STORM BAR TYPE 1

ALUMINUM EXTRUSION

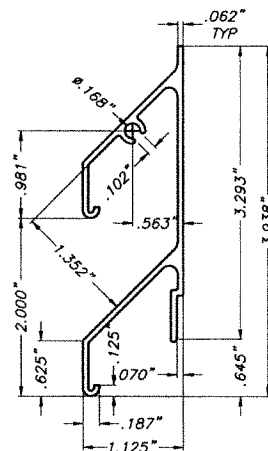


O1 STORM BAR TYPE 2

ALUMINUM EXTRUSION

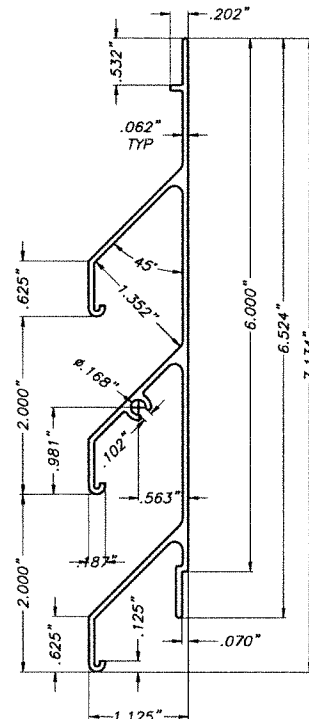
COMPONENTS VALIDITY SCHEDULE

COMPONENTS	USED WITH	
	CLIPS	STORM BARS
B	YES	NO
B'	NO	YES
C	YES	NO
D	YES	NO
D'	NO	YES
E	YES	YES
E1	YES	YES
F	YES	YES
G	YES	YES
H	YES	YES
I	YES	YES
N	NO	YES
O	NO	YES
O1	NO	YES
Q1	NO	YES
Q2	NO	YES



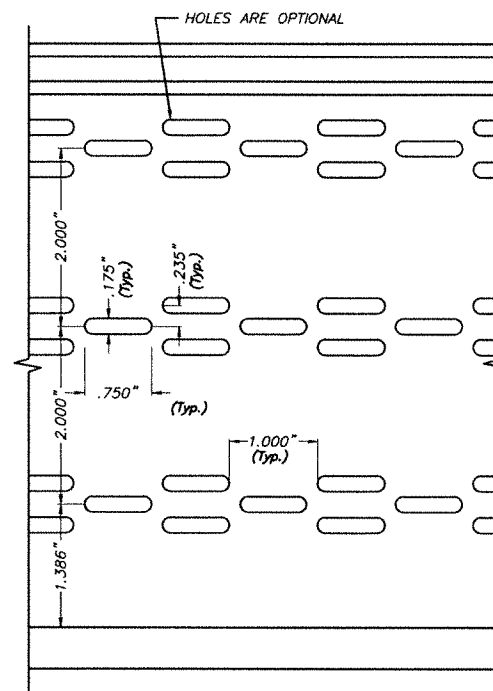
H HALF SHUTTER BLADE

ALUMINUM EXTRUSION



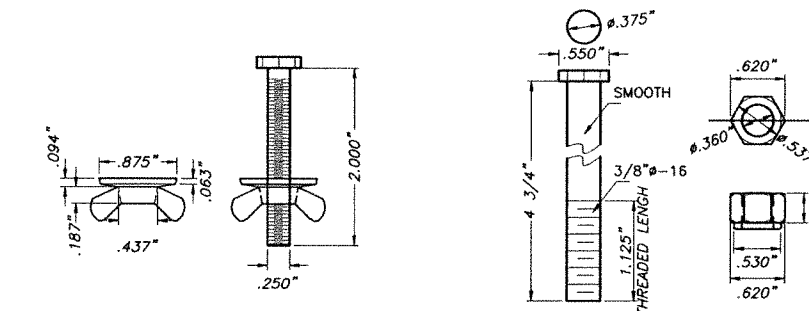
I SHUTTER BLADE

ALUMINUM EXTRUSION



SHUTTER BLADE ELEVATION

ALUMINUM EXTRUSION



Q1 1/4"Ø-20X2" 304 SERIES S.S. HEX HEAD BOLT W/ DIE CAST (ZINC #7) NICKEL PLATED WASHER WINGNUT

Q2 ALUMINUM PIN FOR HINGE
6061-T6 Alum. ALLOY

COMPONENTS

SCALE: 1/2" = 1"

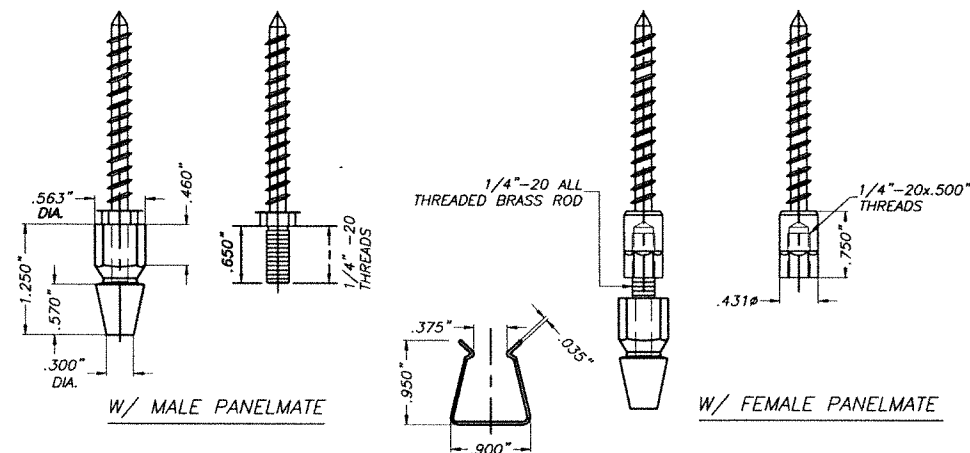
No. 44107
WALTER A. TILLIT Jr., P.E.
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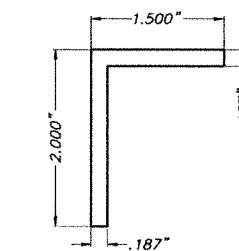
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

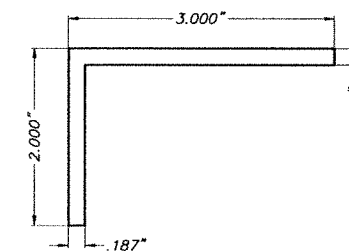
ASSA / BERTHA COLONIAL SHUTTER (WITH CLIPS OR STORM BARS)			W.H. DRAWN BY:		
AMERICAN SHUTTER SYSTEMS ASSOC., INC.			6/30/2026 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380			26-102 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		



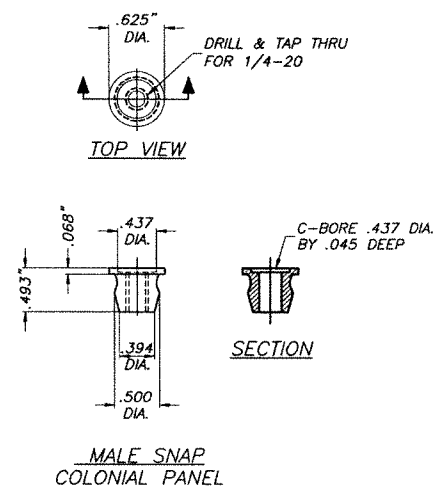
- (L) SPRING TEMPERED BRASS "U" CHANNEL (1" LONG)
& 1/4" ELCO TEXTRON MALE OR FEMALE PANELMATE
ANCHOR W/ 360 BRASS THREADED NUT



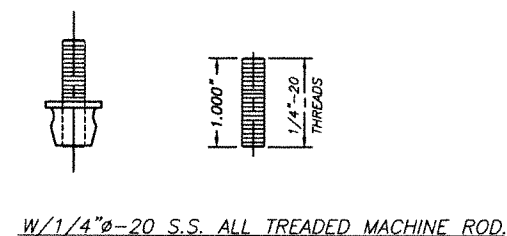
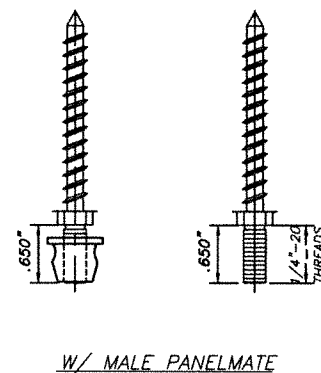
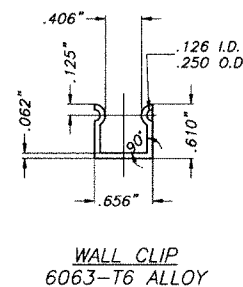
- (J) WALL MOUNT
Alum. BRACKET
4" LONG
ALUMINUM EXTRUSION



- (K) BUILD-OUT
Alum. BRACKET
4" LONG
ALUMINUM EXTRUSION

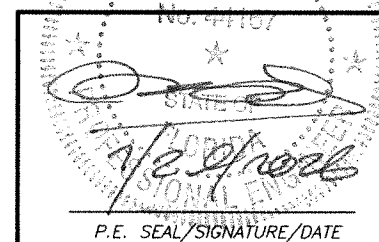


- (M) ALTERNATE ALUMINUM "U" CHANNEL (1" LONG)
& 1/4" ELCO TEXTRON MALE PANELMATE ANCHOR
OR W/ 1/4" S.S. MACHINE ROD



COMPONENTS

SCALE: 1/2" = 1"

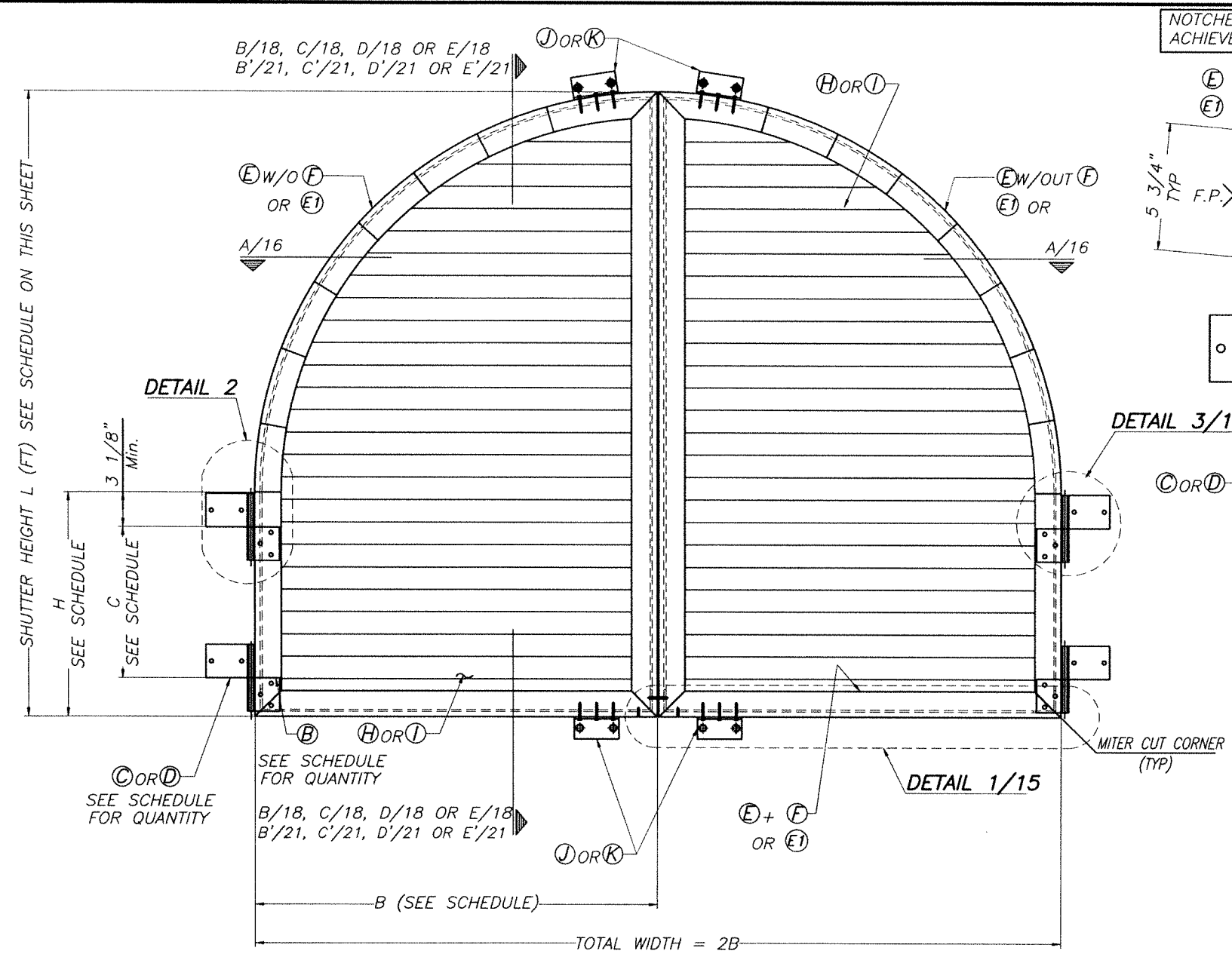


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TILTECO INC.
 TILLIT TESTING & ENGINEERING COMPANY
 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
 Phone: (305)871-1530 Fax: (305)871-1531
 e-mail: tiltco@aol.com
 CA-0006719
 WALTER A. TILLIT Jr., P.E.
 FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

COMBINATION DRAWING:
 ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
 ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

ASSA / BERTHA COLONIAL SHUTTER (WITH CLIPS)					
AMERICAN SHUTTER SYSTEMS ASSOC., INC.					
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (800)432-2204 FAX: (561)209-8380					
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		
W.H. DRAWN BY: 6/30/2026 DATE: 26-102 DRAWING No					SHEET 12 OF 33



**DOUBLE PANEL
ELEVATION**
SCALE: 1"=1'-0"

**QUANTITY OF HINGES W/ Max. SEPARATION
BETWEEN HINGES AND CORRESPONDING HEIGHT H (in)**

QUANTITY OF HINGES	C Max. SEPARATION BETWEEN HINGES	H (in.)
2	11 1/2"	20 1/8"
3	21 7/8"	51 1/4"

**MINIMUM SEPARATION TO GLASS SCHEDULE
FOR PERFORATED OR NOT SHUTTER BLADES**

BLADES H OR I CONDITION	MINIMUM SEPARATION TO GLASS
PERFORATED BLADES AS SHOWN ON SHEET 11	3"
NOT PERFORATED (SOLID) BLADES	1"

**MAXIMUM A.S.D. DESIGN PRESSURE RATING (p.s.f.)
AND CORRESPONDING MAXIMUM PANEL'S WIDTH (B)
SHUTTER'S HEIGHTS (L) & (H) SCHEDULE**

MAXIMUM A.S.D DESIGN PRESSURE RATING (p.s.f.)	B (in.)	L (ft.)	H (in.)
+70.0, -85.0	36"	4'-6"	20 1/8"
+80.0, -87.5	18"	5'-9"	51 1/4"

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

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

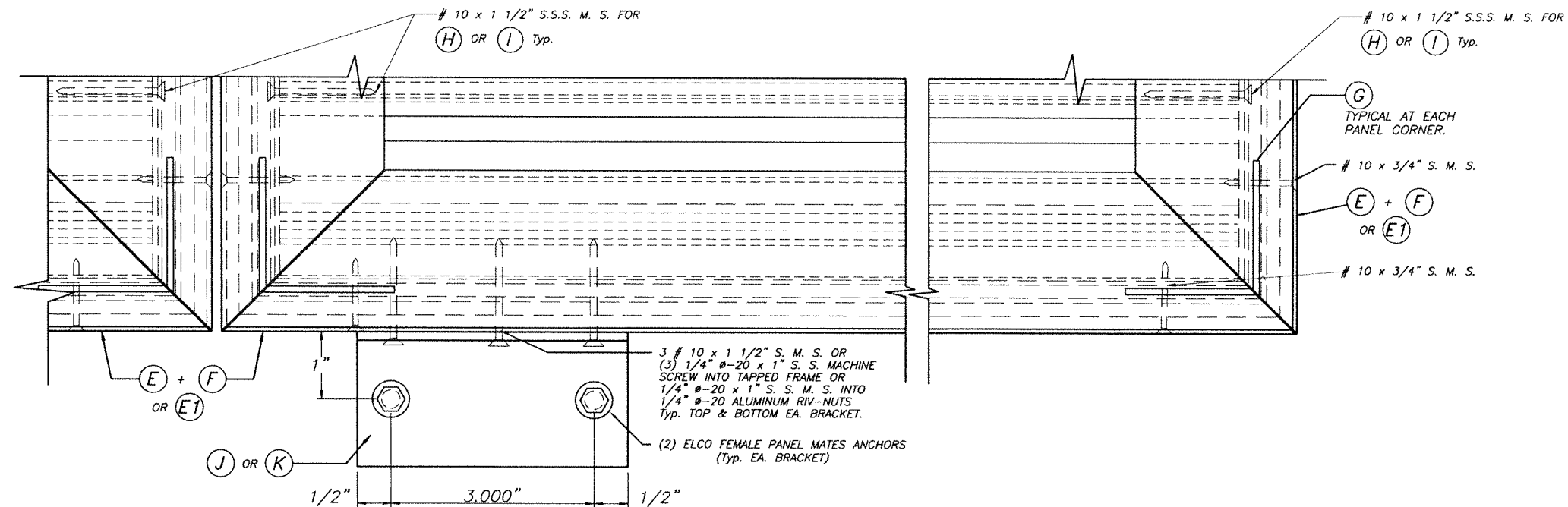
ASSA / BERTHA COLONIAL SHUTTER
(WITH CLIPS)

AMERICAN SHUTTER SYSTEMS ASSOC., INC.
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (800)432-2204
FAX: (561)209-8380

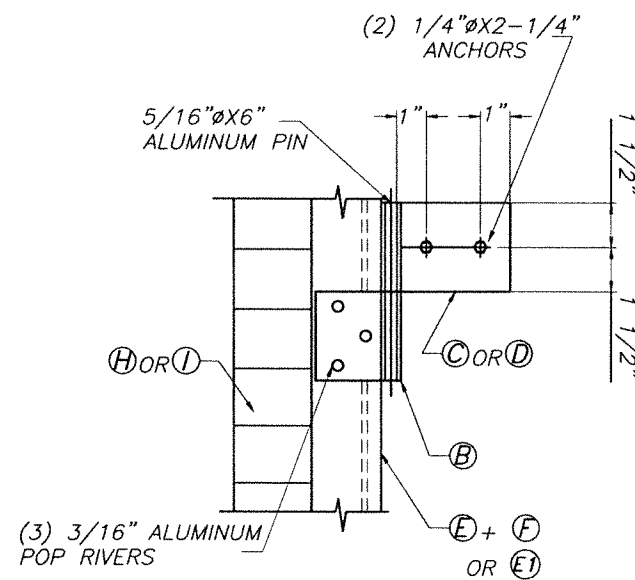
W.H.
DRAWN BY:
6/30/2026
DATE:
26-102
DRAWING No
SHEET 14 OF 33

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		

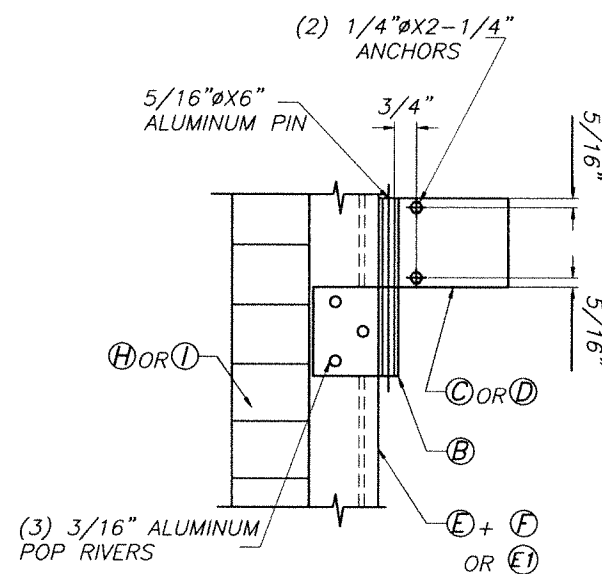
WALTER A. TILLIT Jr.
LICENSED PROFESSIONAL ENGINEER
No. 44167
STATE OF FLORIDA
6/29/2026
P.E. SEAL/SIGNATURE/DATE



DETAIL 1
SCALE : 1/2" = 1"



DETAIL 3

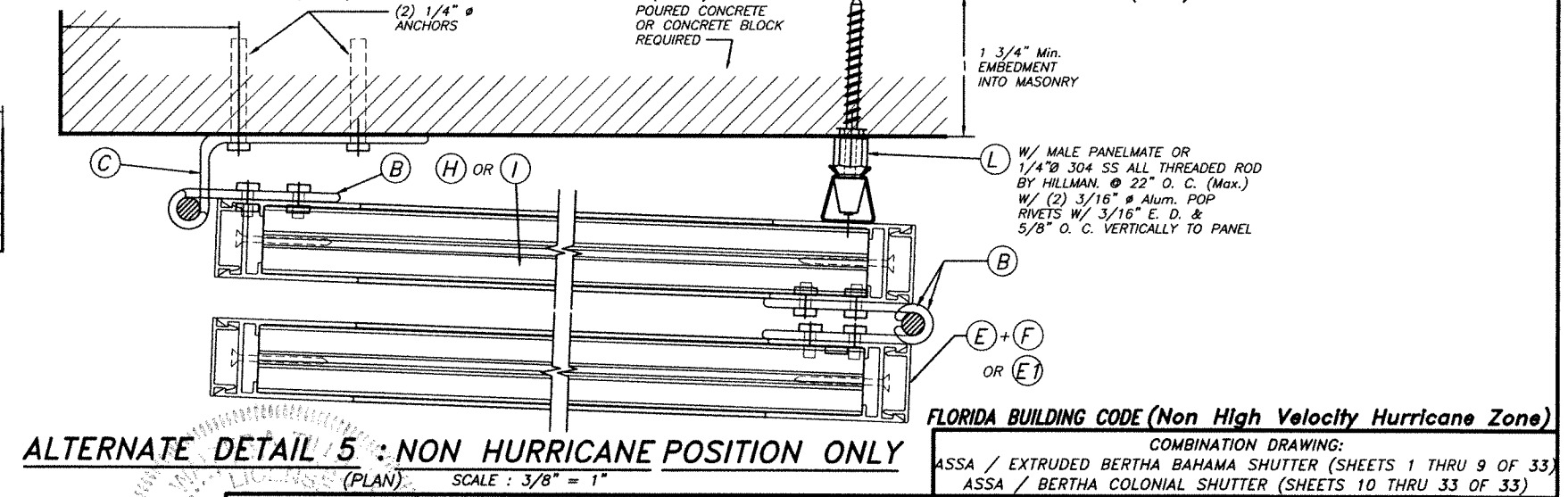
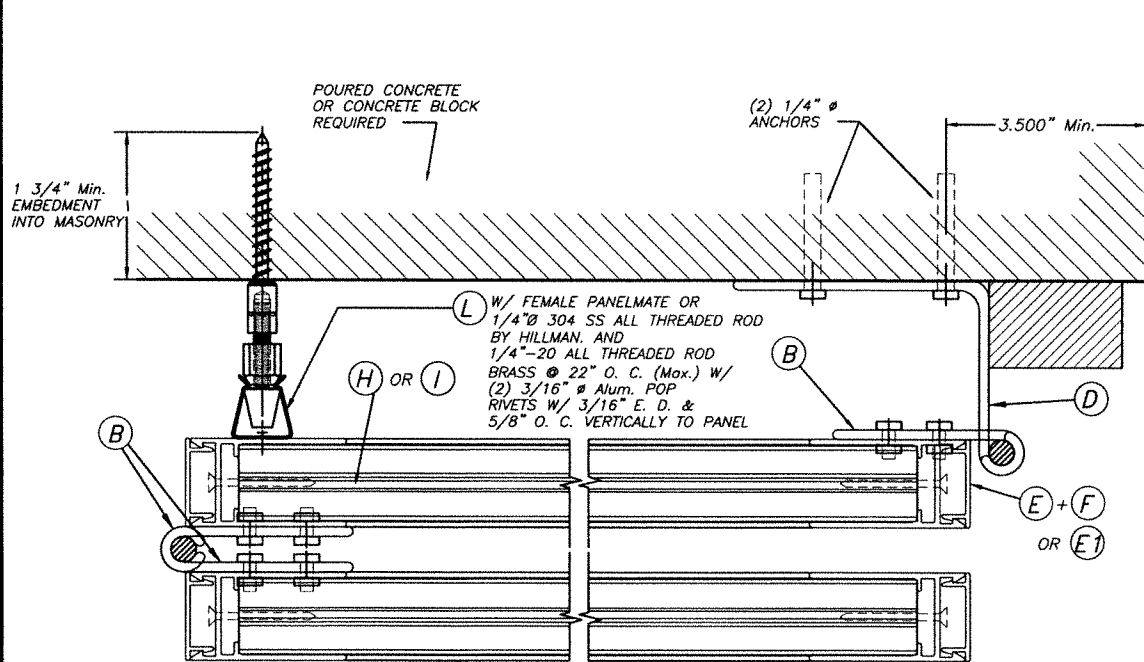
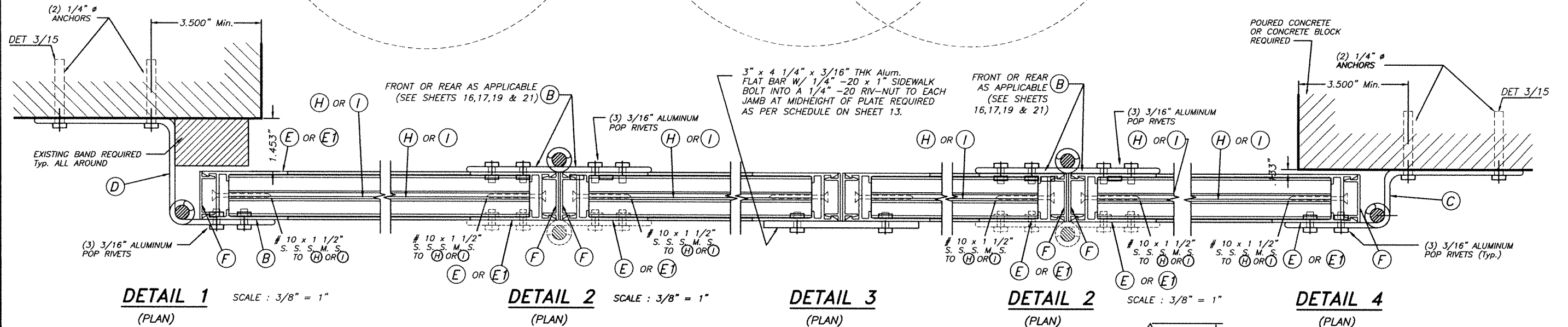
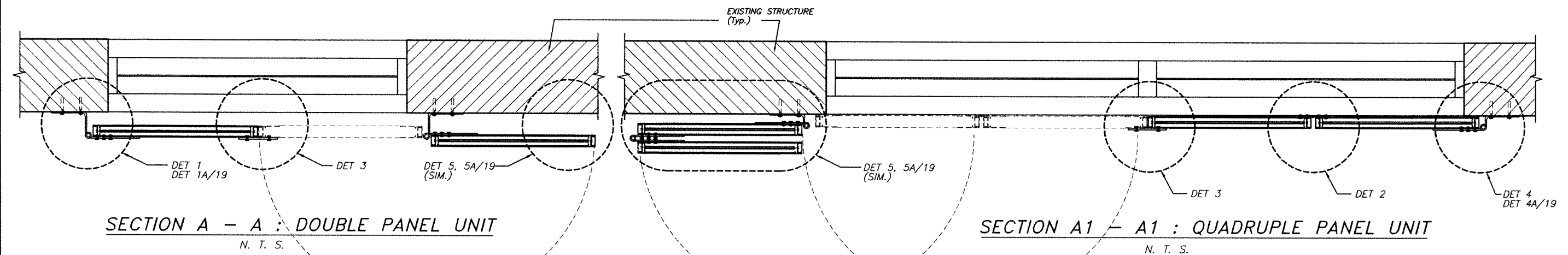


ALTERNATE DETAIL 3

STATE OF FLORIDA
WALTER A. TILLIT JR.
P.E. SEAL/SIGNATURE/DATE

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

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
COMBINATION DRAWING: ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33) ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (WITH CLIPS)				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC. 4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380				6/30/2026 DATE:	
				26-102 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		
SHEET 15 OF 33					



FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

ASSA / BERTHA COLONIAL SHUTTER (WITH CLIPS)

W.H. DRAWN BY:
6/30/2026 DATE:
26-102 DRAWING No

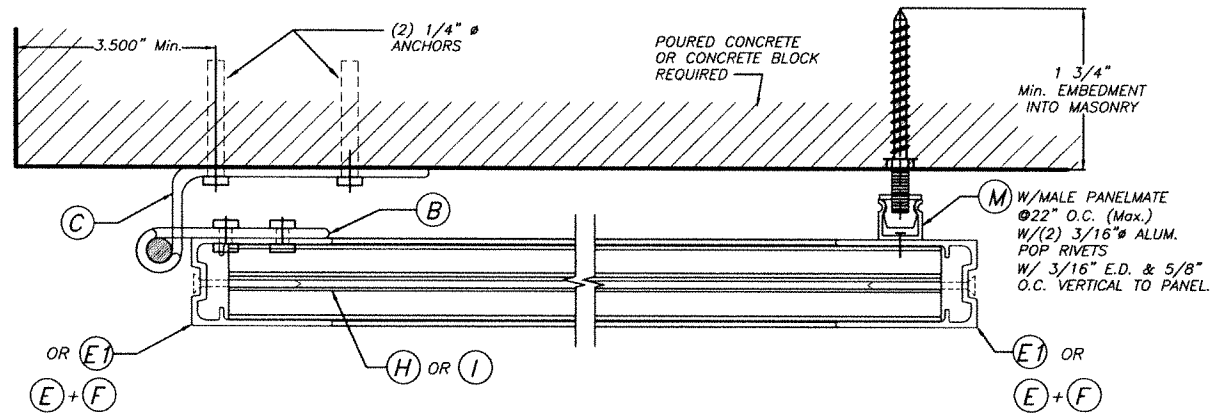
AMERICAN SHUTTER SYSTEMS ASSOC., INC.
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (800)432-2204
FAX: (561)209-8380

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		

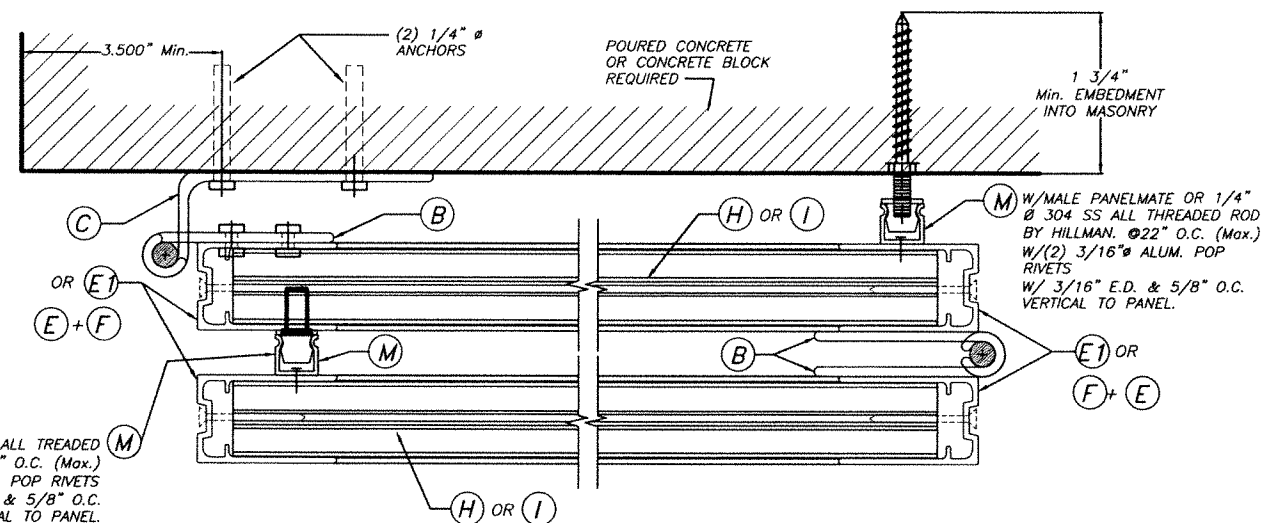
SHEET 16 OF 33

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

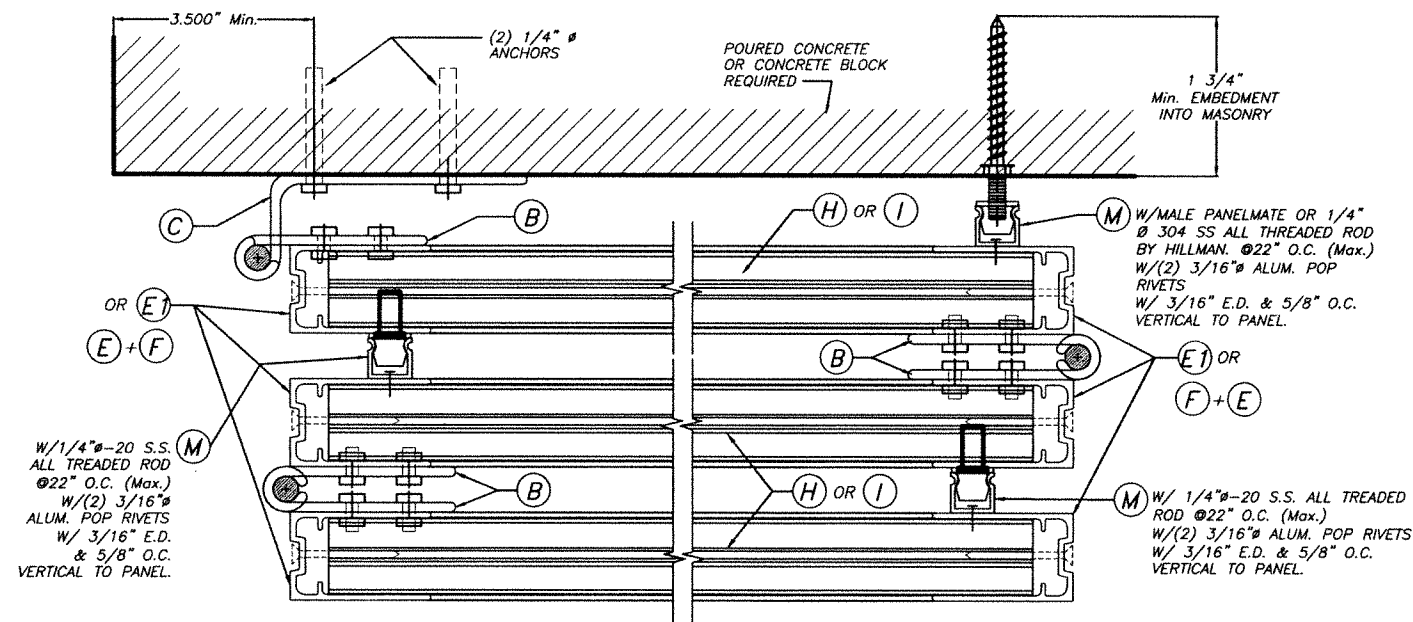
No. 44167
P.E. SEAL/SIGNATURE/DATE



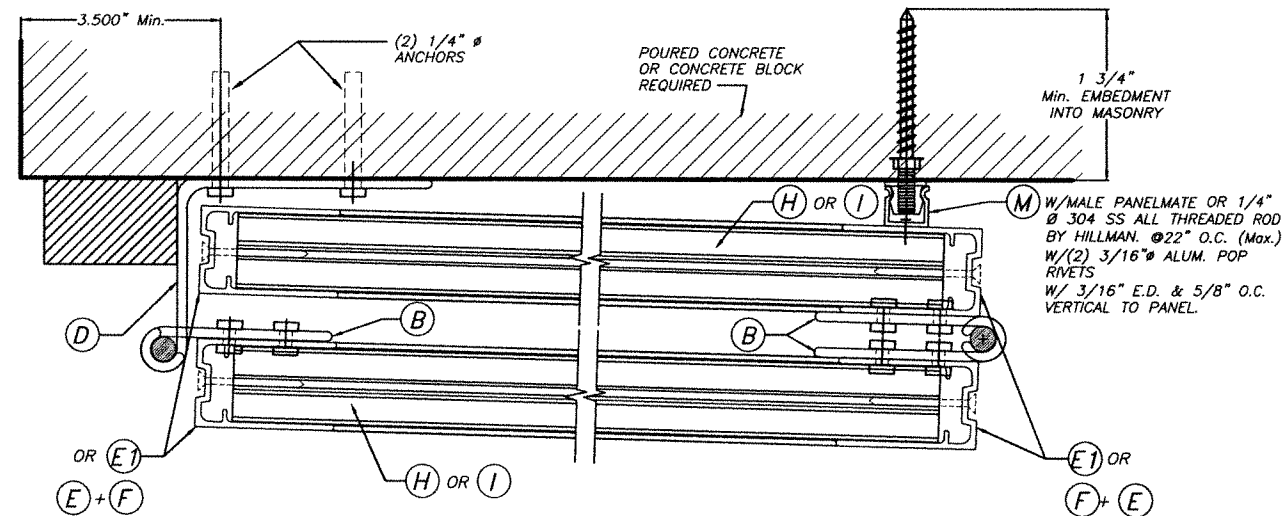
DETAIL 6: NON HURRICANE POSITION ONLY
(PLAN) SCALE : 3/8" = 1"



DETAIL 8: NON HURRICANE POSITION ONLY
(PLAN) SCALE : 3/8" = 1"



**DETAIL 7: NON HURRICANE POSITION ONLY
FOR INSTALLATION AT QUADRUPLE PANEL ONLY**
(W/ B (Max.) = 18")
(PLAN) SCALE : 3/8" = 1"

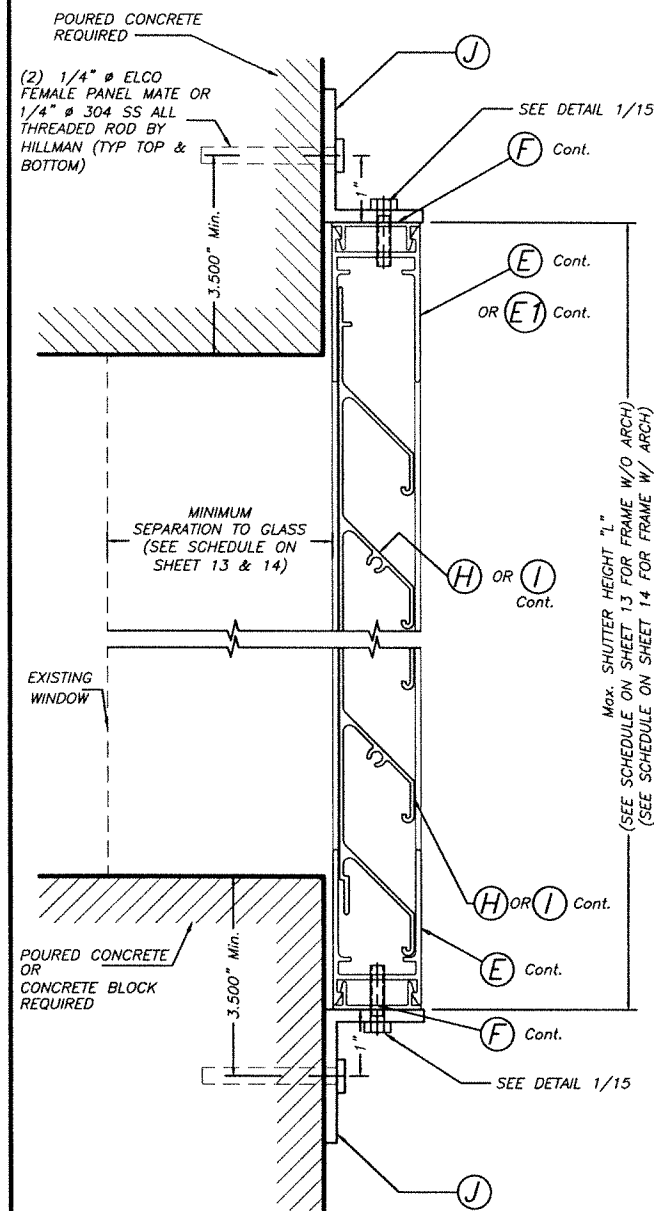


ALTERNATE DETAIL 8: NON HURRICANE POSITION ONLY
(PLAN) SCALE : 3/8" = 1"

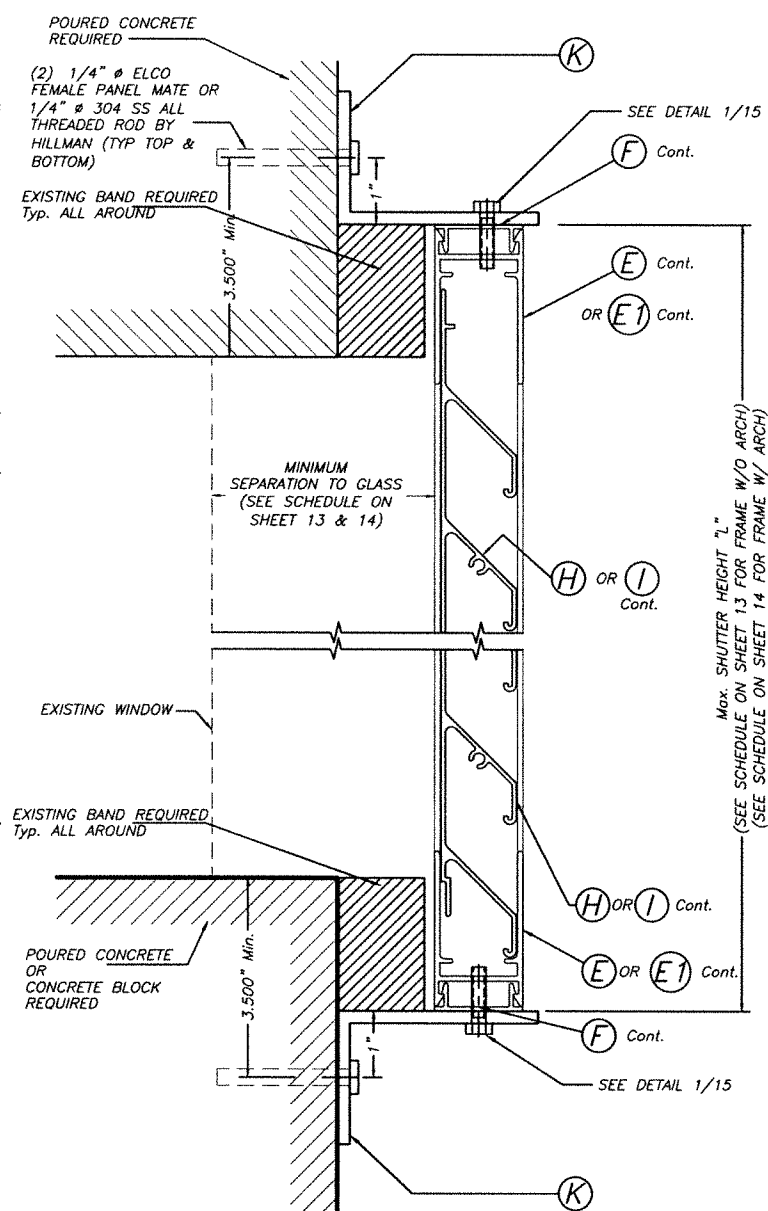
WALTER A. TILLIT, P.E.
No. 44167
STATE OF FLORIDA
7/29/2026
P.E. SEAL/SIGNATURE/DATE

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

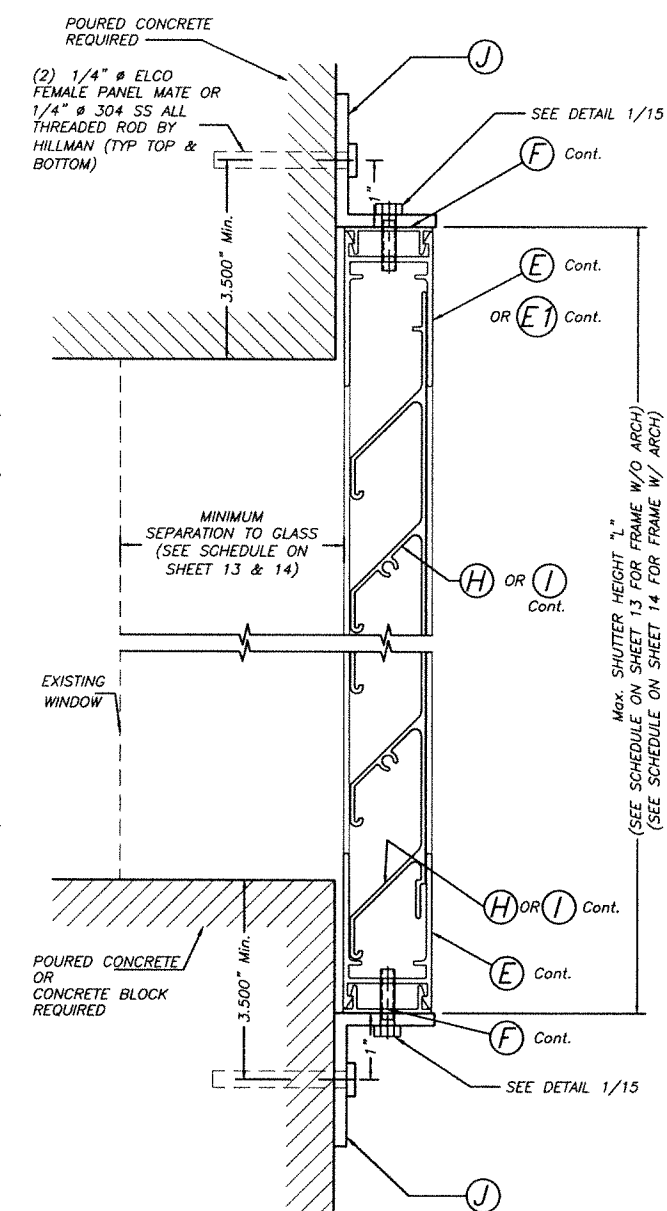
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
COMBINATION DRAWING: ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33) ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (WITH CLIPS)				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC.				6/30/2026 DATE:	
				26-102 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		
SHEET 17 OF 33					



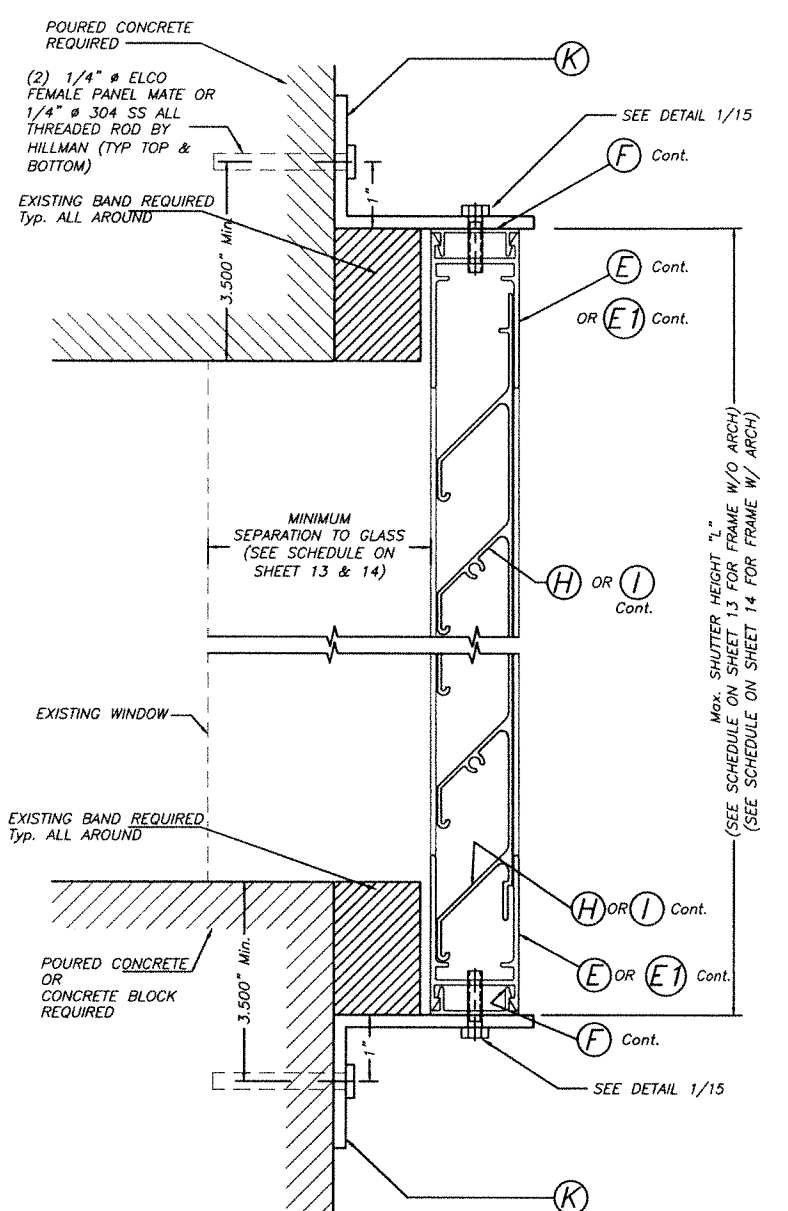
SECTION B - B (FLUSH MOUNT)
HURRICANE POSITION
SCALE: 3/8" = 1"



SECTION C - C (BUILD-OUT)
HURRICANE POSITION
SCALE: 3/8" = 1"



SECTION D - D (FLUSH MOUNT)
SHUTTER BLADE REVERSELY ORIENTED
HURRICANE POSITION
SCALE: 3/8" = 1"

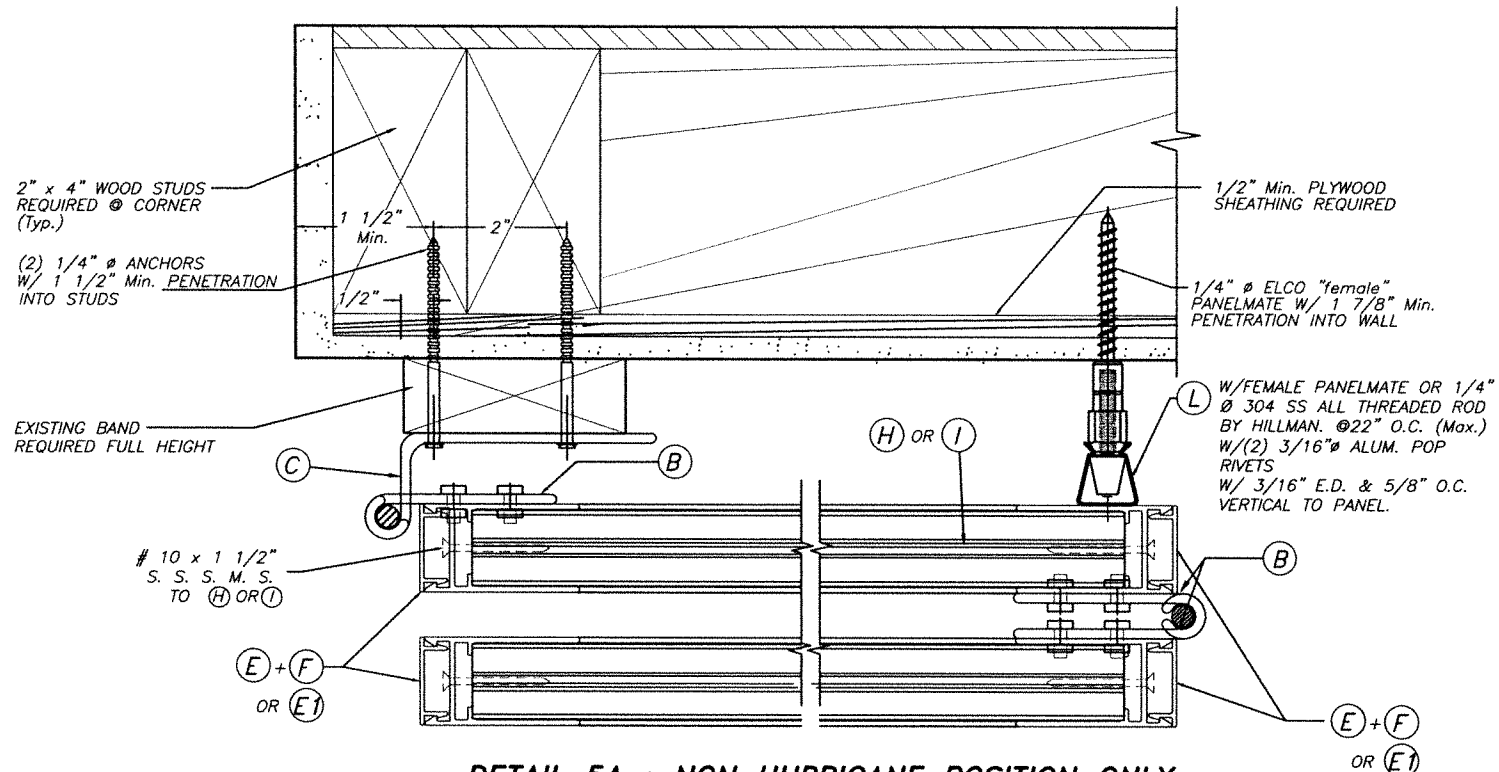


SECTION E - E (BUILD-OUT)
SHUTTER BLADE REVERSELY ORIENTED
HURRICANE POSITION
SCALE: 3/8" = 1"

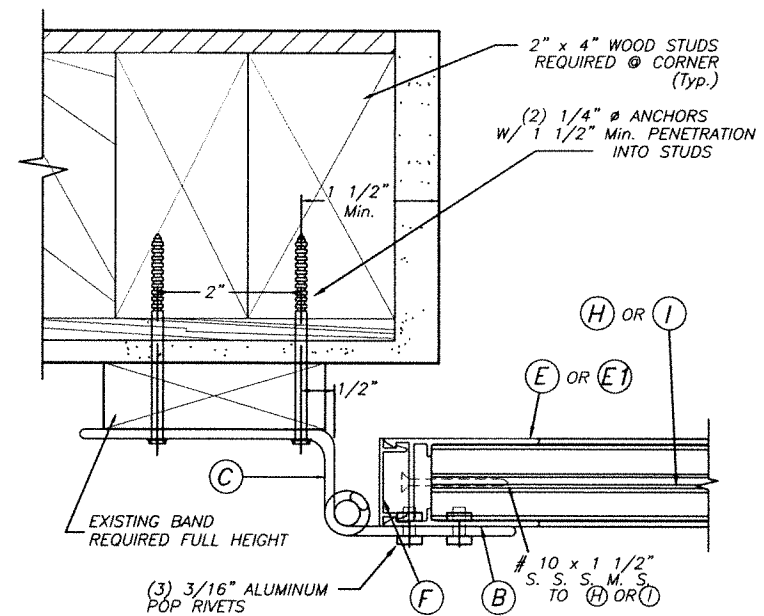
STATE OF FLORIDA
WALTER A. TILLIT JR.
P.E. SEAL/SIGNATURE/DATE

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

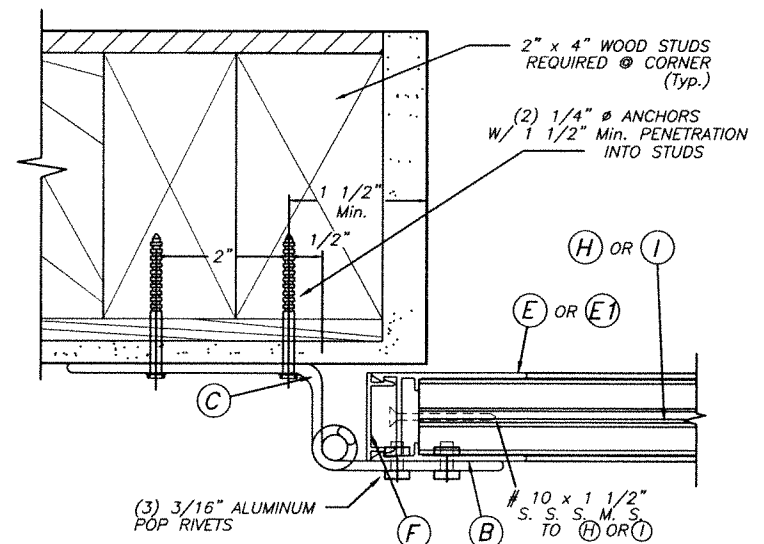
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
COMBINATION DRAWING: ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33) ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (WITH CLIPS)				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC. 4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380				6/30/2026 DATE:	
				26-102 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		
SHEET 18 OF 33					



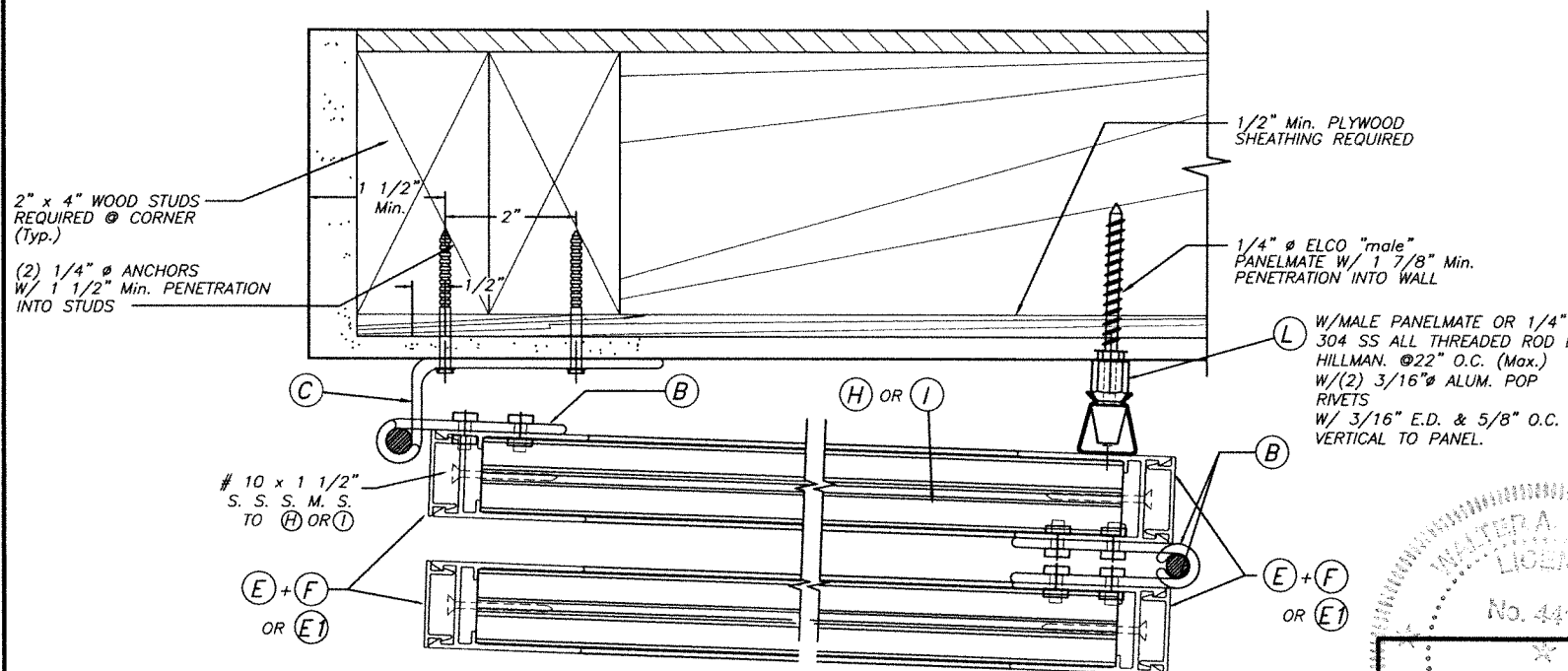
DETAIL 5A : NON HURRICANE POSITION ONLY
(PLAN) SCALE : 1/4" = 1"



DETAIL 1A
(PLAN) SCALE : 1/4" = 1"



DETAIL 4A
(PLAN)



ALTERNATE DETAIL 5A : NON HURRICANE POSITION ONLY
(PLAN) SCALE : 1/4" = 1"

INSTALLATION DETAILS ON EXISTING WOOD FRAME BUILDINGS

WALTER A. TILLIT JR.
LICENSE
No. 44167

STATE OF FLORIDA

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

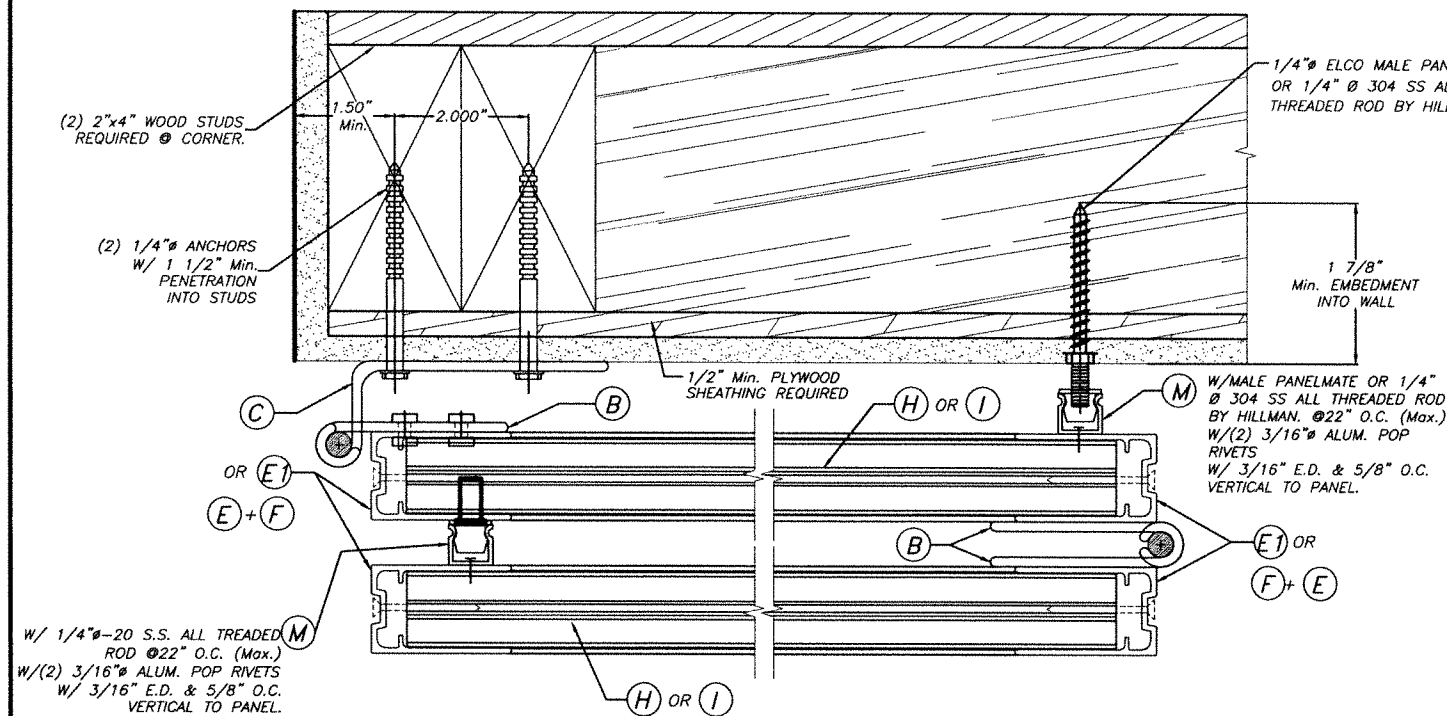
P.E. SEAL/SIGNATURE/DATE

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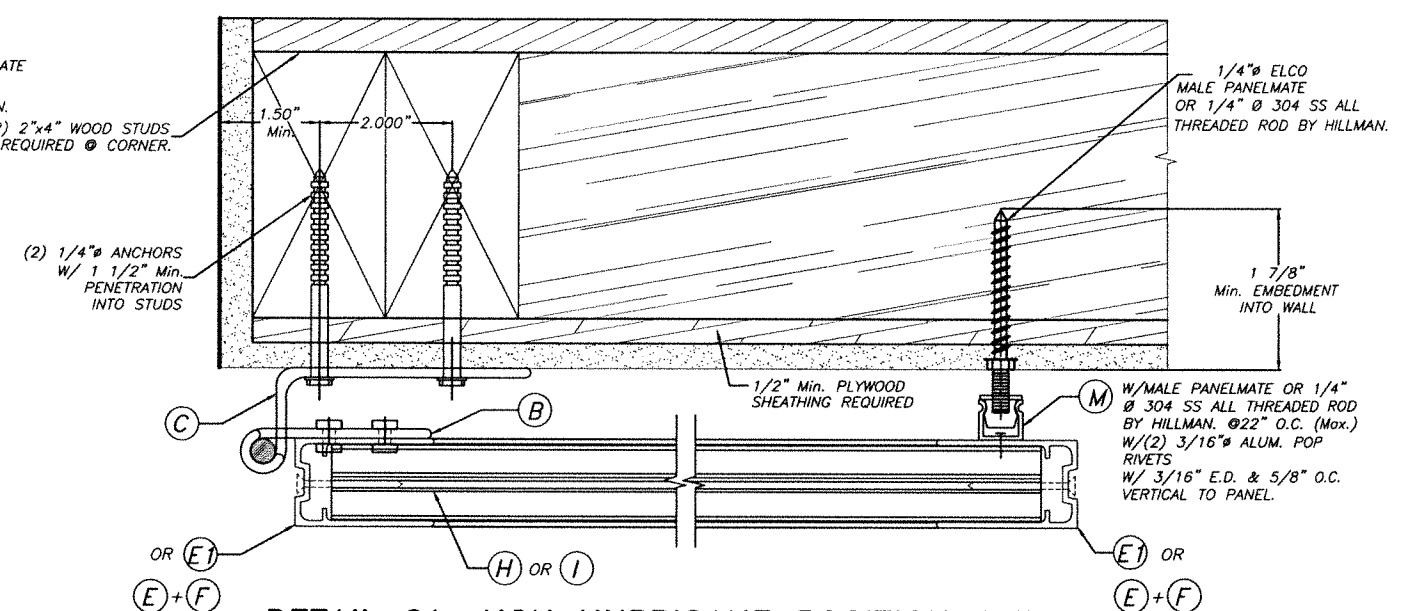
TILTECO INC.

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6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone : (305)871-1530 . Fax : (305)871-1531
e-mail: tilliteco@aol.com
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WALTER A. TILLIT JR., P.E.
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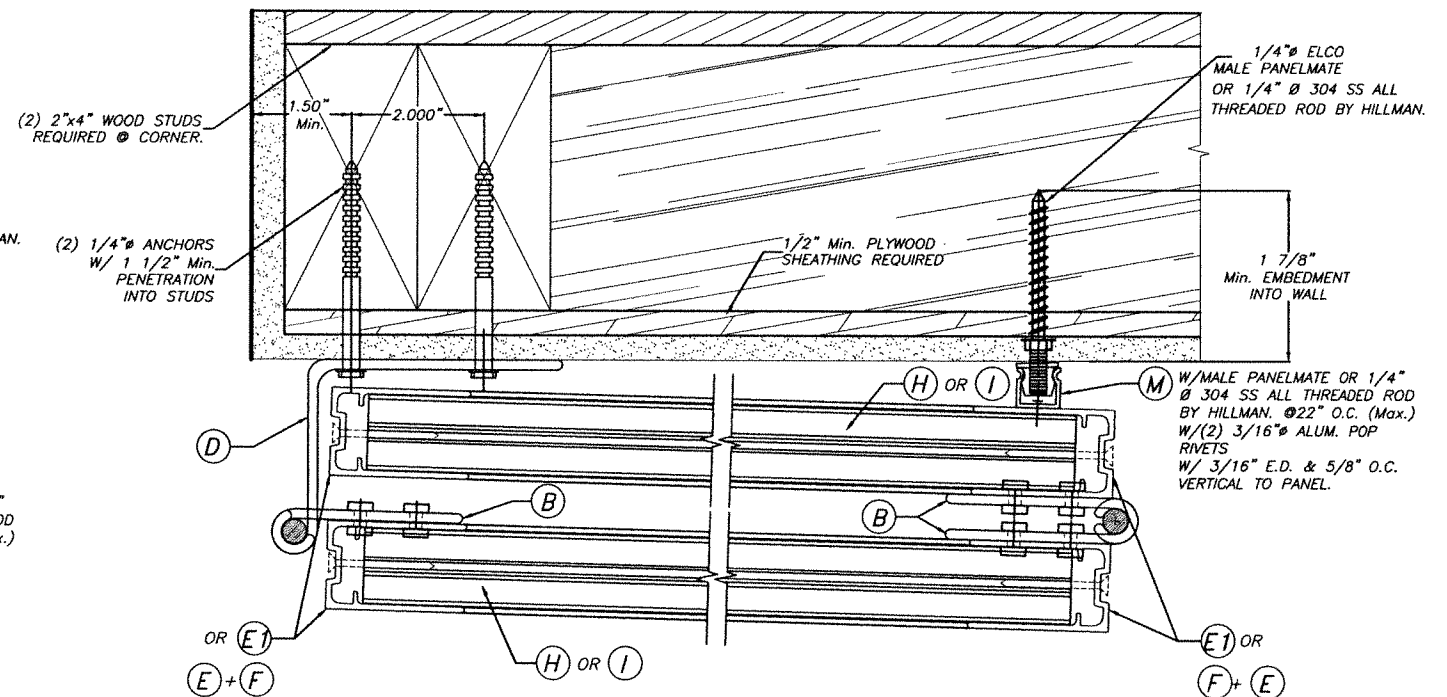
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
COMBINATION DRAWING: ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33) ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (WITH CLIPS)				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC.				6/30/2026 DATE:	
				26-102 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		
SHEET 19 OF 33					



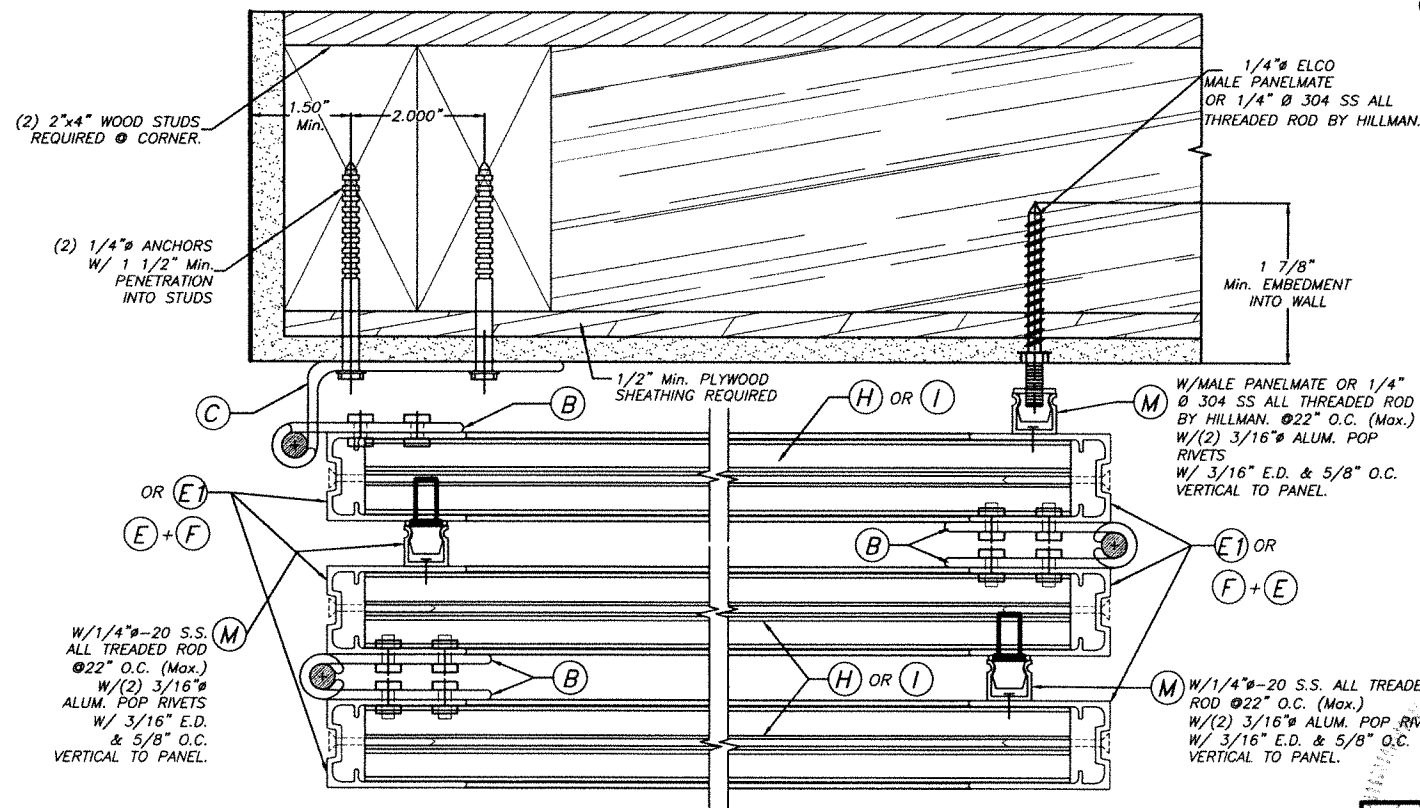
DETAIL 8A: NON HURRICANE POSITION ONLY
(PLAN)



DETAIL 6A: NON HURRICANE POSITION ONLY
(PLAN)



ALTERNATE DETAIL 8A: NON HURRICANE POSITION ONLY
(PLAN)

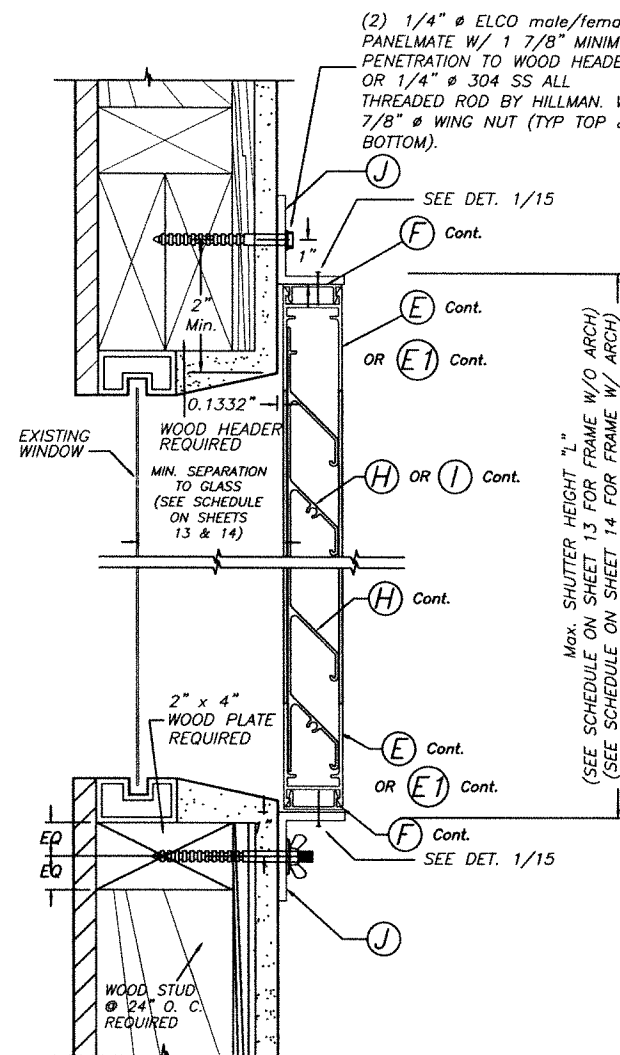


DETAIL 7A: NON HURRICANE POSITION ONLY
(PLAN)

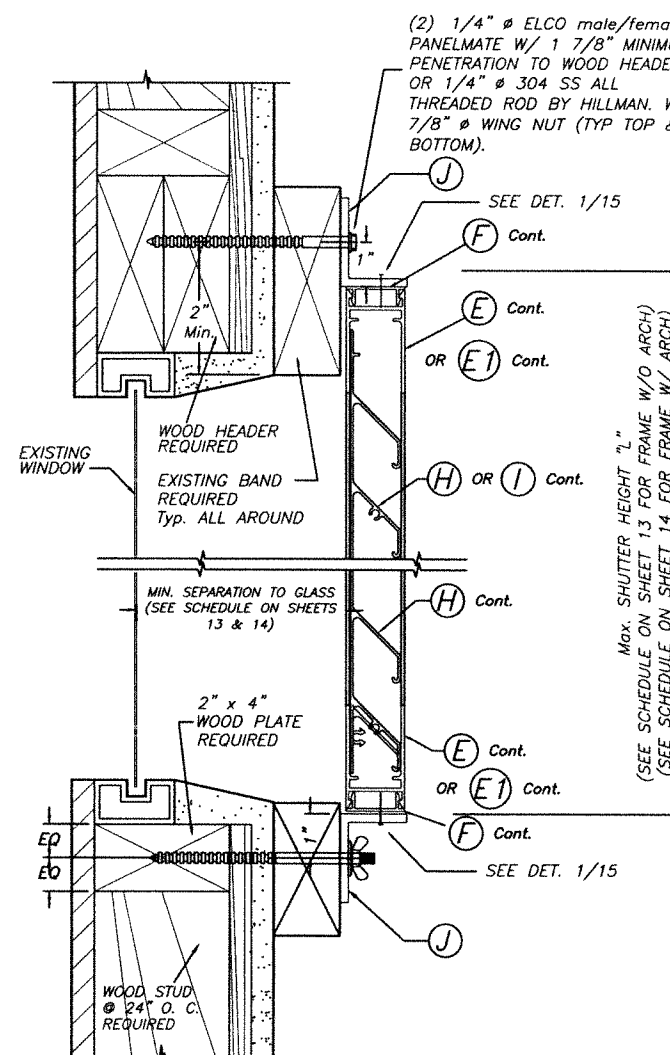
FLORIDA
Professional Engineer
WALTER A. TILLIT JR., P.E.
No. 44167
7/2/2026
P.E. SEAL/SIGNATURE/DATE

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WALTER A. TILLIT JR., P.E.
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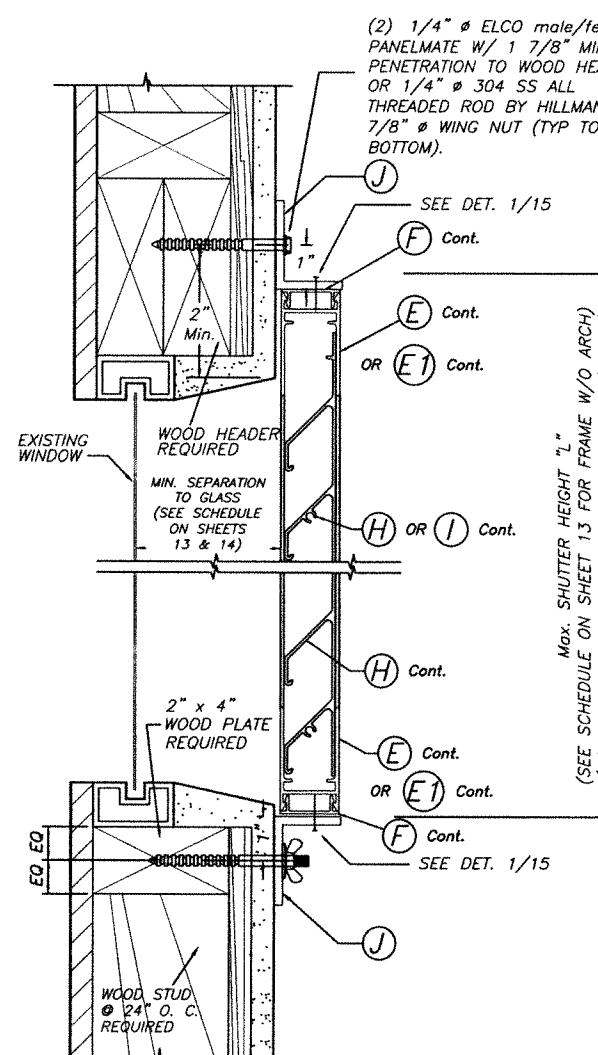
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
COMBINATION DRAWING: ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33) ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (WITH CLIPS)				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC.				6/30/2026 DATE:	
				26-102 DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		
SHEET 20 OF 33					



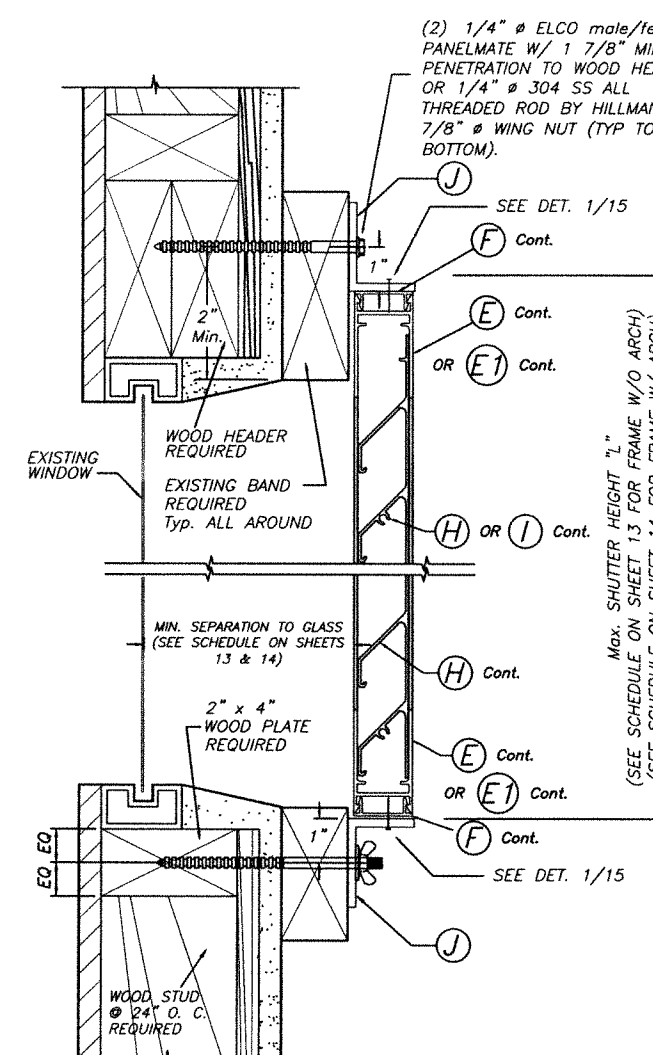
SECTION B' - B' (FLUSH MOUNT)
HURRICANE POSITION
SCALE: 1/4" = 1"



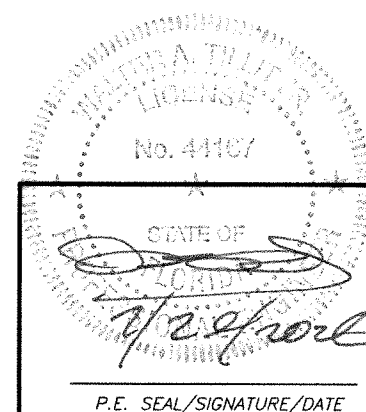
SECTION C' - C' (BUILD-OUT MOUNT)
HURRICANE POSITION
SCALE: 1/4" = 1"



SECTION D' - D' (FLUSH MOUNT)
SHUTTER BLADE REVERSELY ORIENTED
HURRICANE POSITION
SCALE: 1/4" = 1"

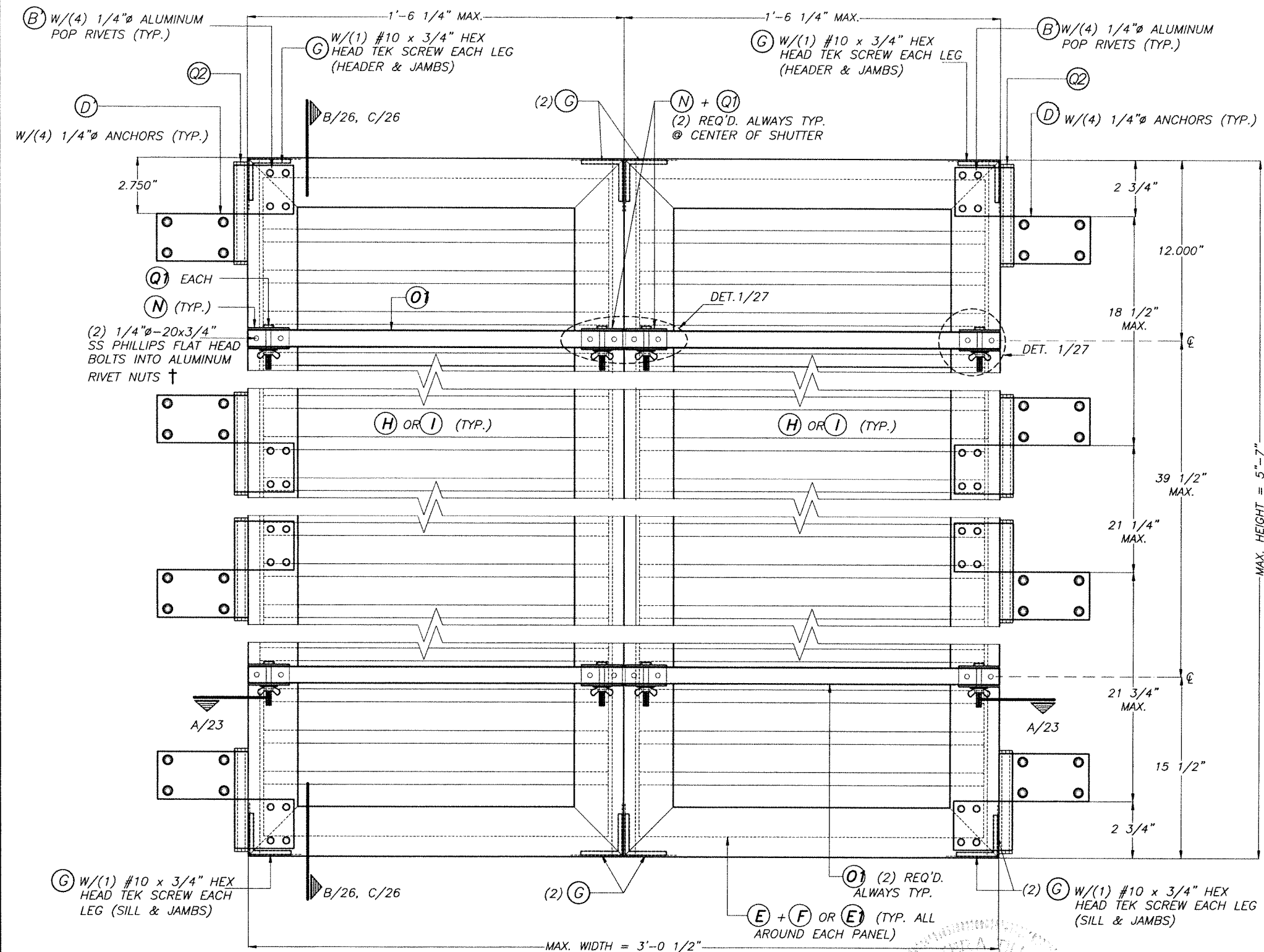


SECTION E' - E' (BUILD-OUT MOUNT)
SHUTTER BLADE REVERSELY ORIENTED
HURRICANE POSITION
SCALE: 1/4" = 1"



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

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)					
COMBINATION DRAWING:					
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (WITH CLIPS)				W.H. DRAWN BY:	
AMERICAN SHUTTER SYSTEMS ASSOC., INC.				6/30/2026	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (800)432-2204 FAX: (561)209-8380				DATE:	
				26-102	
				DRAWING No	
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		
SHEET 21 OF 33					



†: 1/4"Ø-20x3/4", AS DISTRIBUTED BY ALL
POINT SCREW, BOLT AND SPECIALTY CO.
(PART # 25CRFNA)

MAXIMUM A.S.D. DESIGN PRESSURE RATING = +60.0, -81.0 p.s.f. FOR
INSTALLATION INTO CONCRETE OR CONCRETE BLOCK WALL SUBSTRATE.

TYPICAL EXTERIOR ELEV. DOUBLE PANEL (HURRICANE POSITION)

SCALE: 3/16"=1"

P.E. SEAL/SIGNATURE/DATE

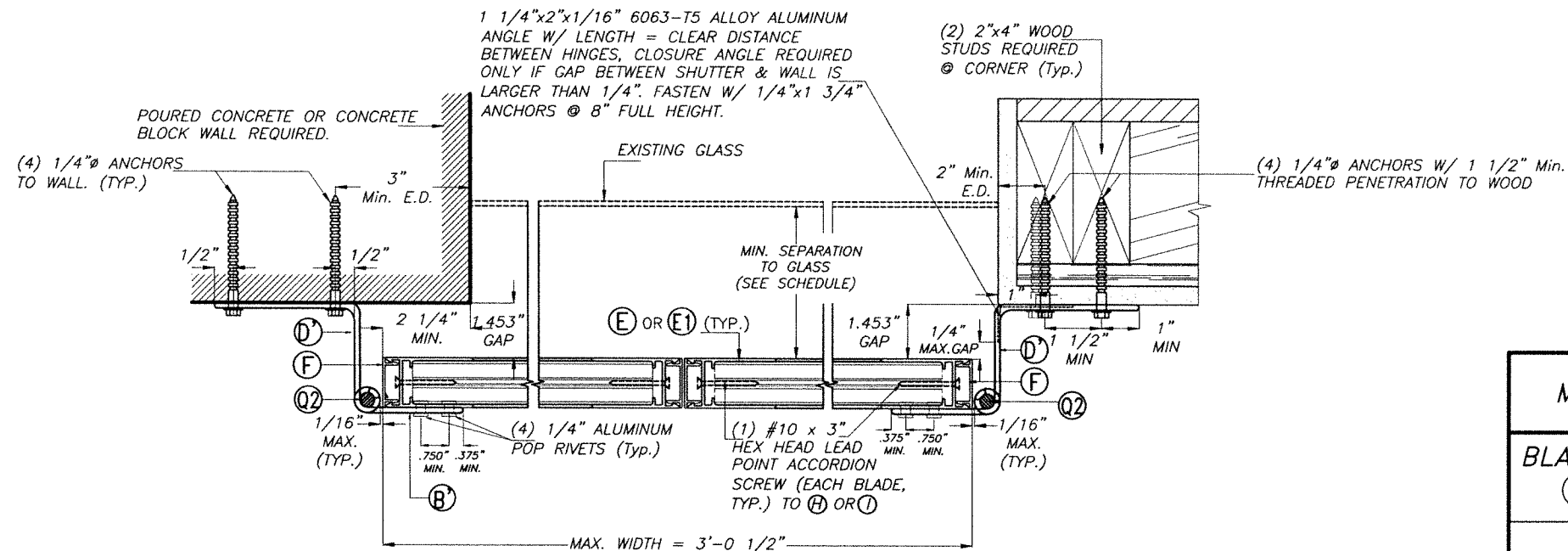
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TILLIT TESTING & ENGINEERING COMPANY
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FLORIDA 33166
Phone: (305)871-1530 • Fax: (305)871-1531
e-mail: tilteco@aol.com
CA-0006719
WALTER A. TILLIT Jr., P.E.
FLORIDA Lic. # 44167

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

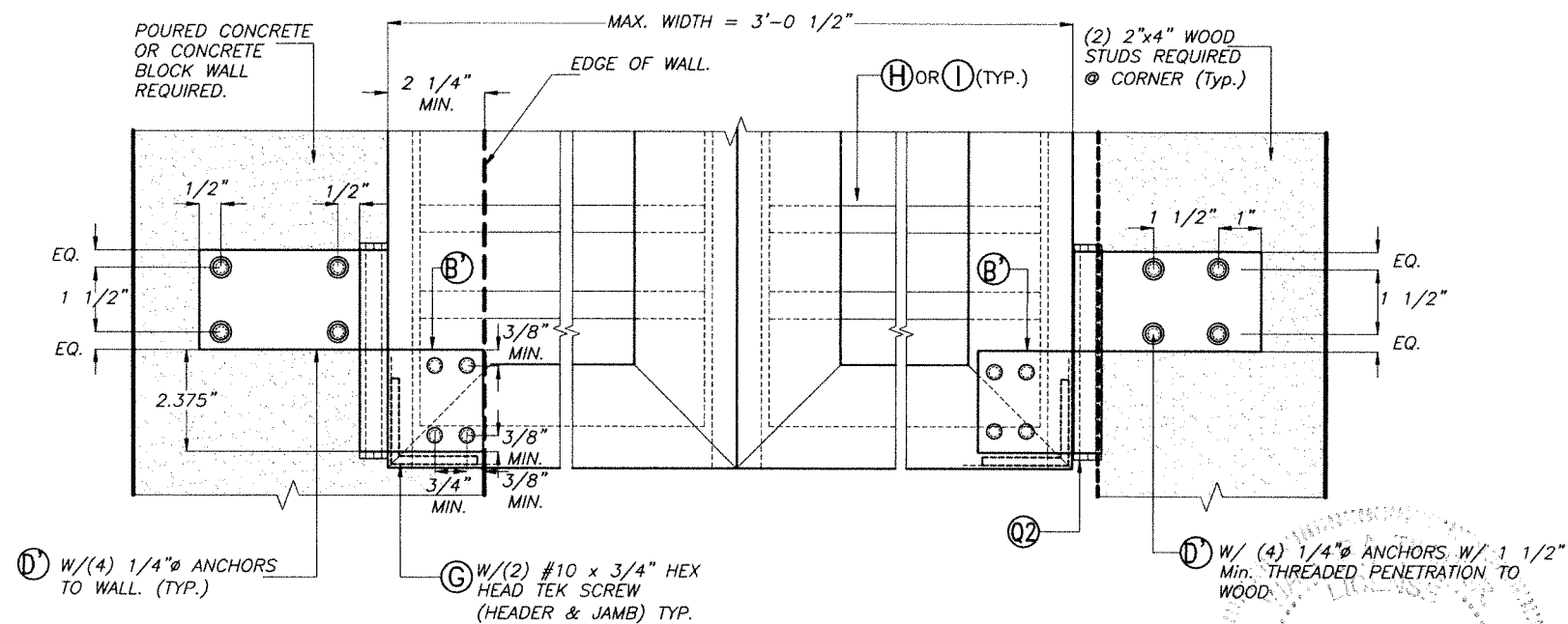
COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

ASSA / BERTHA COLONIAL SHUTTER (WITH STORM BARS)			W.H. DRAWN BY:		
AMERICAN SHUTTER SYSTEMS ASSOC., INC.			6/30/2026 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380			26-102 DRAWING No		
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2			4		
			SHEET 22 OF 33		



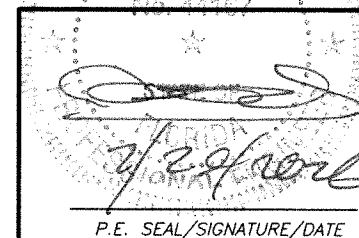

SECTION A-A
 SCALE 1/4"=1"

MINIMUM SEPARATION TO GLASS		
BLADE TYPE (H), (I)	DOUBLE PANEL	QUADRUPLE PANEL
SOLID	1"	1"
PERFORATED	1 3/4"	2 1/8"



VIEW 1
(PARTIAL ELEVATION AT BOTTOM)
 SCALE 1/4"=1"

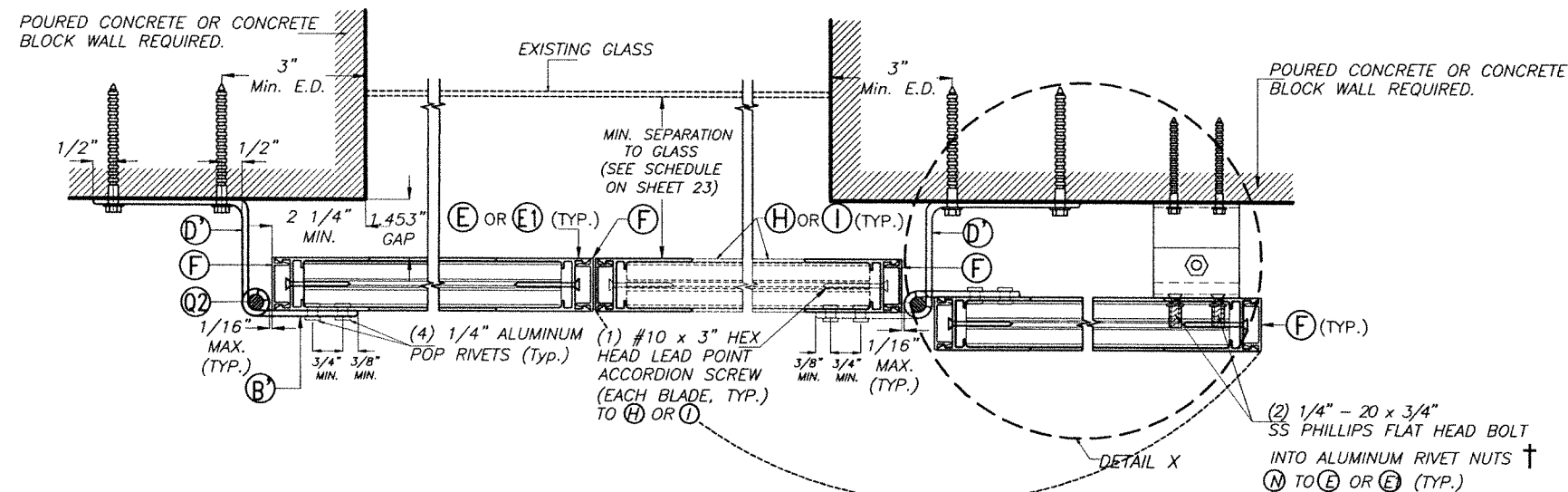
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)
 COMBINATION DRAWING:
 ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
 ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)


 P.E. SEAL/SIGNATURE/DATE

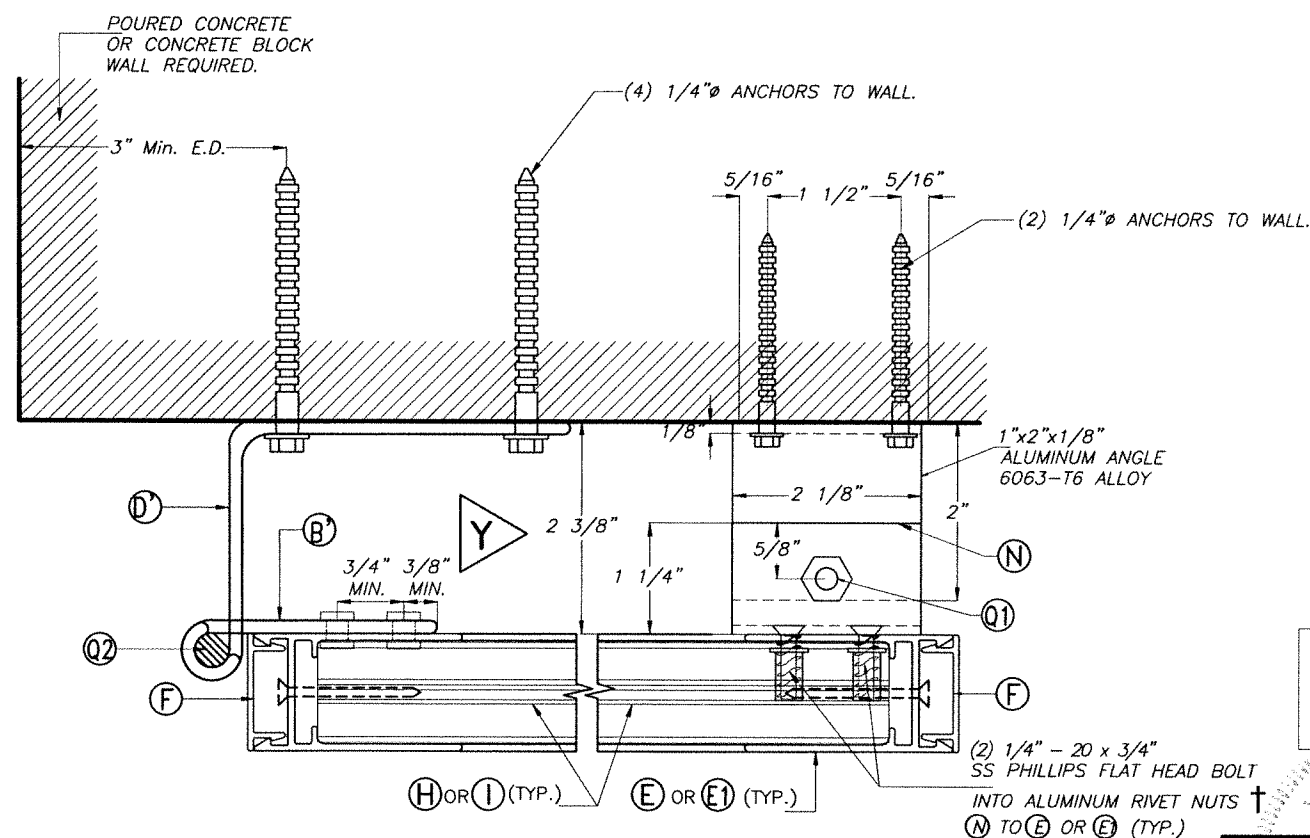
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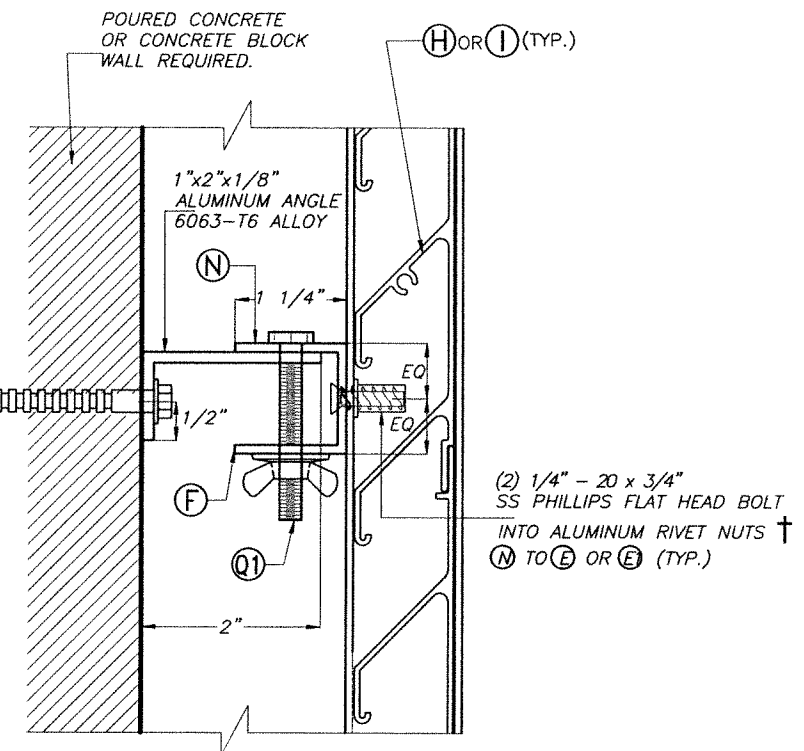
ASSA / BERTHA COLONIAL SHUTTER (WITH STORM BARS)					
AMERICAN SHUTTER SYSTEMS ASSOC., INC.			W.H. DRAWN BY:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380			6/30/2026 DATE:		
			26-102		
			DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		
			SHEET 23 OF 33		



TYPICAL PLAN (NON HURRICANE POSITION)
SCALE 1/4"=1"



DETAIL X (NON HURRICANE POSITION)
SCALE 1/8"=1"



ELEVATION Y-Y
SCALE 1/8"=1"

†: 1/4"Ø-20x3/4", AS DISTRIBUTED BY ALL
POINT SCREW, BOLT AND SPECIALITY CO.
(PART # 25CRFNA)

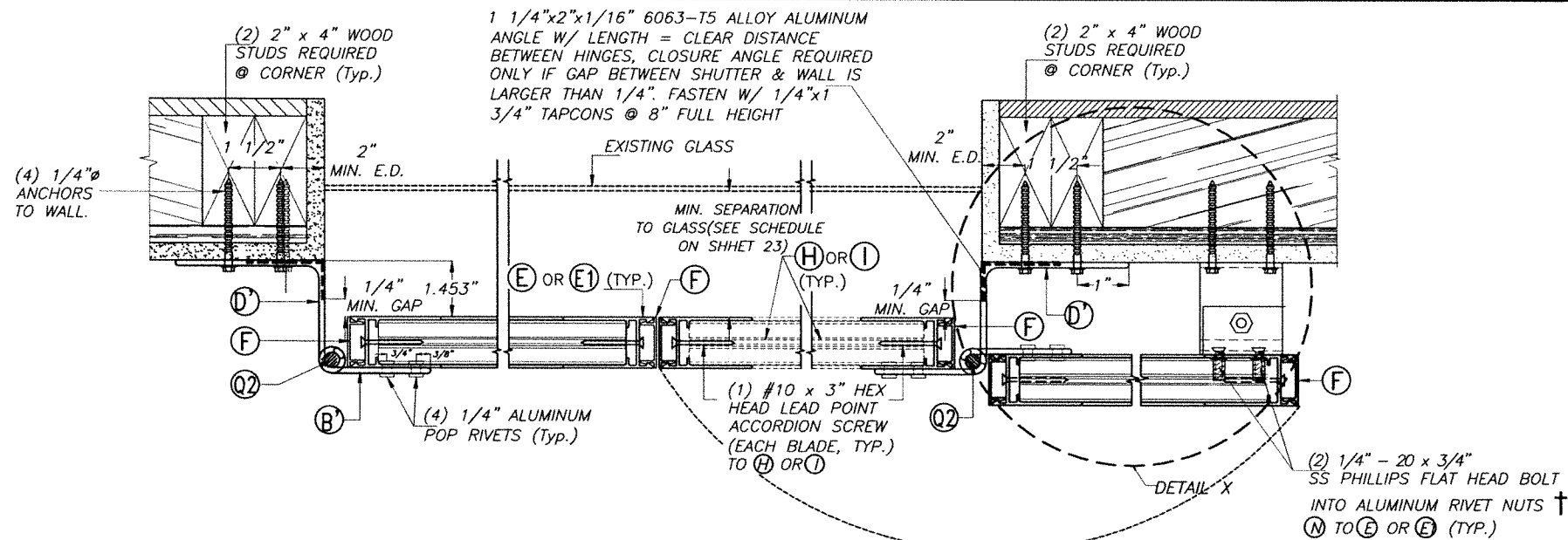
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COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

ASSA / BERTHA COLONIAL SHUTTER (WITH STORM BARS)			W.H. DRAWN BY:		
AMERICAN SHUTTER SYSTEMS ASSOC., INC.			6/30/2026 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380			26-102 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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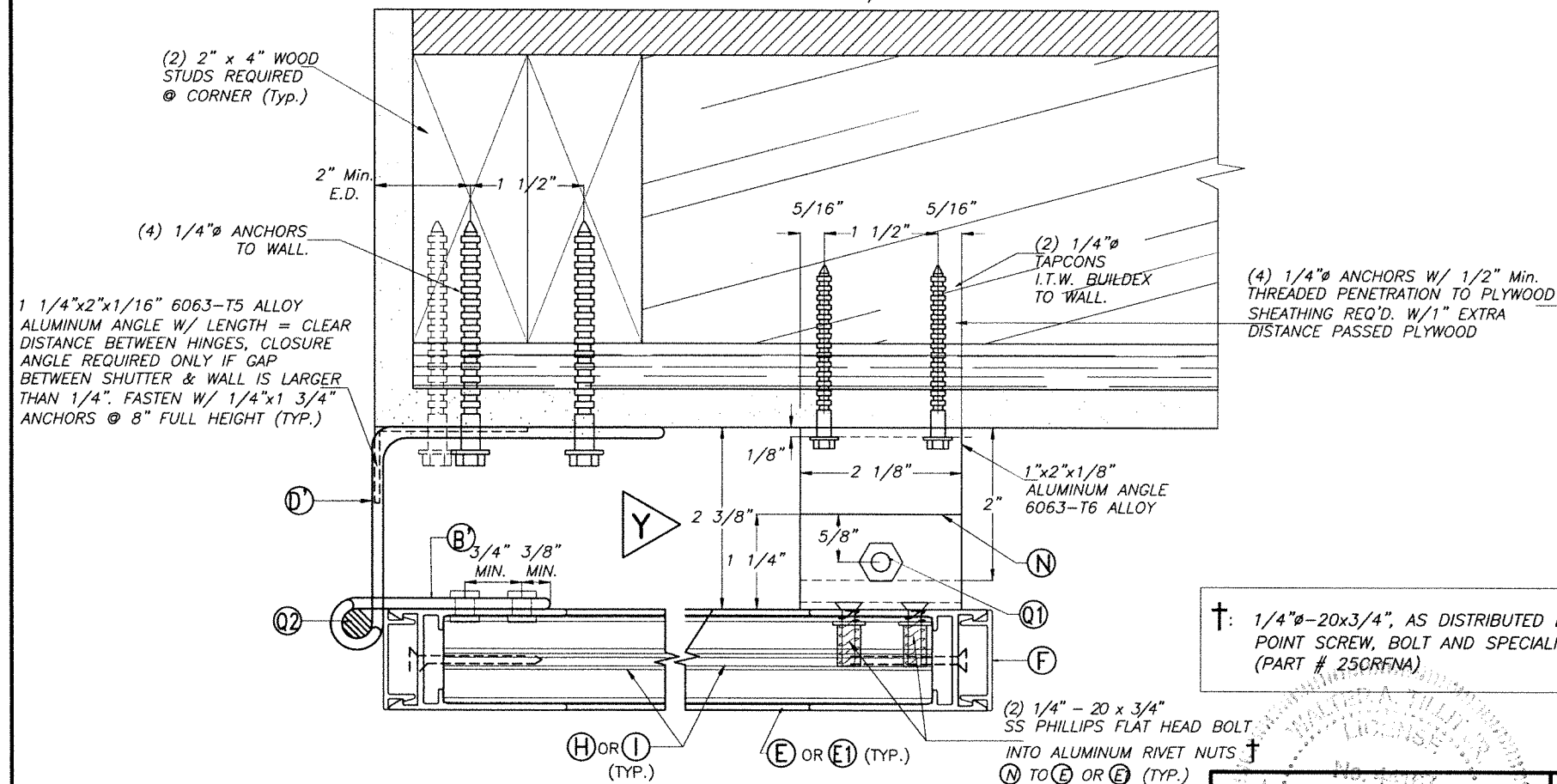
7/29/2026
P.E. SEAL/SIGNATURE/DATE

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FLORIDA Lic. # 44167



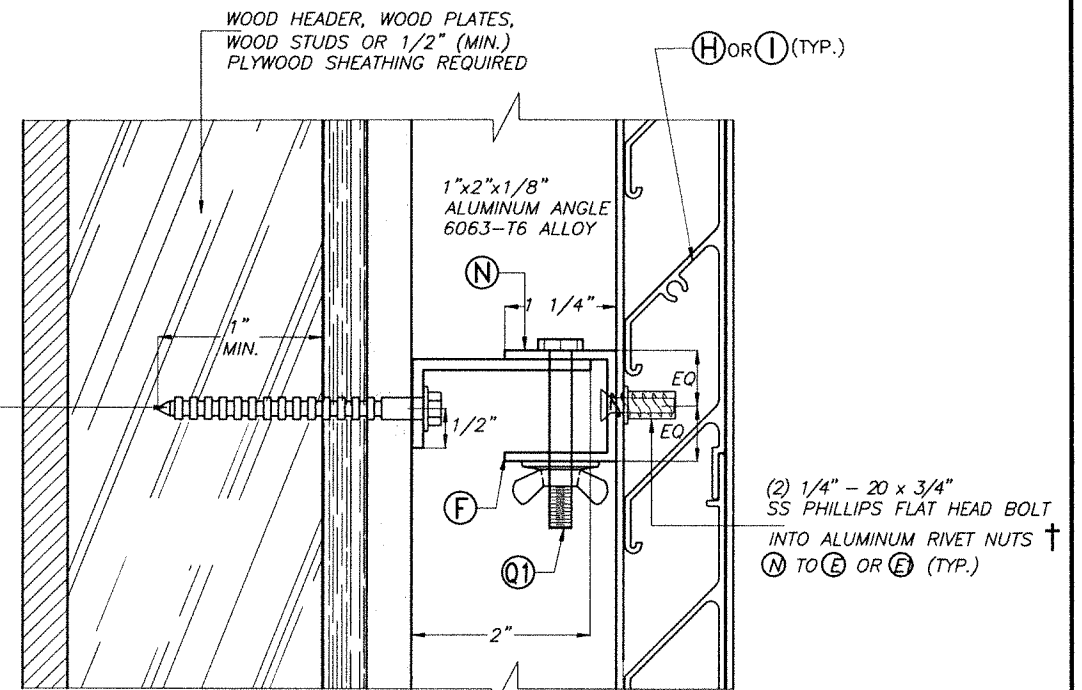
TYPICAL PLAN (NON HURRICANE POSITION)

SCALE 1/4"=1"



DETAIL X (NON HURRICANE POSITION)

SCALE 1/8"=1"



ELEVATION Y-Y

SCALE 1/8"=1"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

ASSA / BERTHA COLONIAL SHUTTER (WITH STORM BARS)			W.H. DRAWN BY:		
AMERICAN SHUTTER SYSTEMS ASSOC., INC.			6/30/2026		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380			DATE:		
			26-102		
			DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		

SHEET 25 OF 33

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e-mail: tilteco@aol.com

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WALTER A. TILLIT JR., P.E.

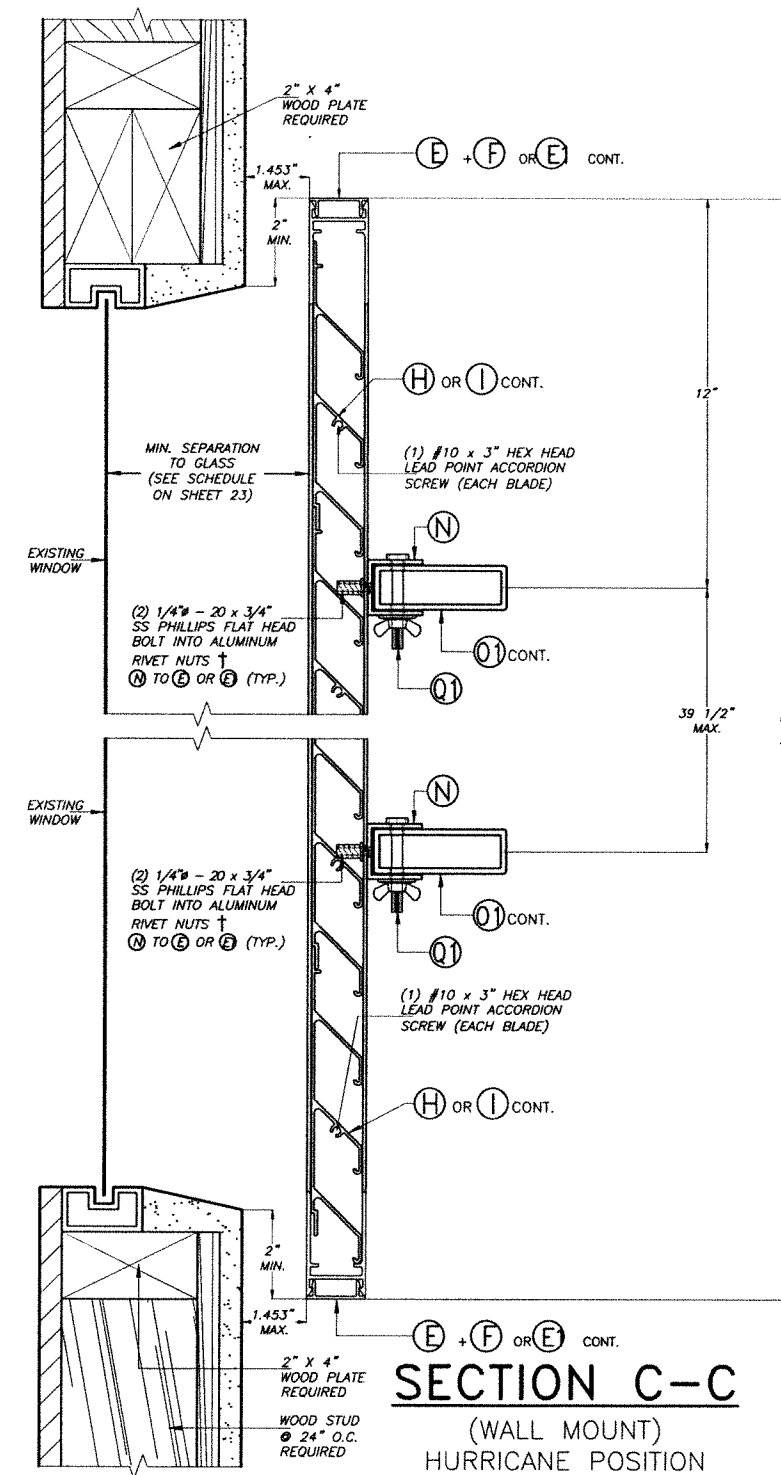
FLORIDA Lic. # 44167

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SECTION B-B

(WALL MOUNT)
HURRICANE POSITION
SCALE 1/4"=1"

†: 1/4"Ø-20x3/4", AS DISTRIBUTED BY ALL
POINT SCREW, BOLT AND SPECIALTY CO.
(PART # 25CRFNA)



SECTION C-C

(WALL MOUNT)
HURRICANE POSITION
SCALE 1/4"=1"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

ASSA / BERTHA COLONIAL SHUTTER
(WITH STORM BARS)

AMERICAN SHUTTER SYSTEMS ASSOC., INC.
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (800)432-2204
FAX: (561)209-8380

W.H.
DRAWN BY:

6/30/2026
DATE:

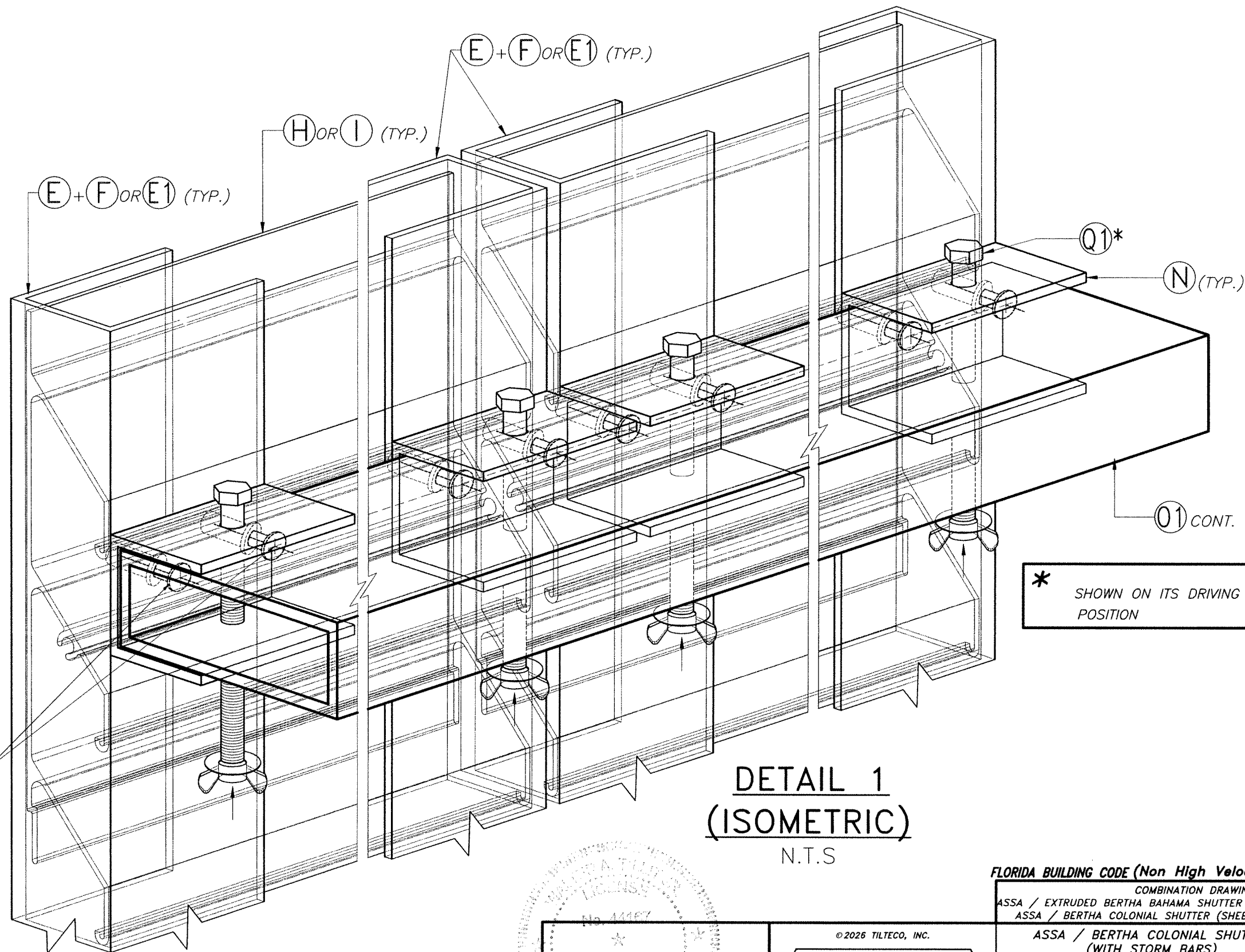
26-102

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE	DRAWING No SHEET 26 OF 33
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2			4			

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

P.E. SEAL/SIGNATURE/DATE



(2) 1/4"Ø - 20 x 3/4"
SS PHILLIPS FLAT HEAD
BOLT INTO ALUMINUM
RIVET NUTS †
(N) TO (E) OR (E1) (TYP.)

† 1/4"Ø-20x3/4", AS DISTRIBUTED BY ALL
POINT SCREW, BOLT AND SPECIALTY CO.
(PART # 25CRFNA)

DETAIL 1 (ISOMETRIC)

N.T.S

*
SHOWN ON ITS DRIVING (INSTALLATION)
POSITION

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

ASSA / BERTHA COLONIAL SHUTTER
(WITH STORM BARS)
AMERICAN SHUTTER SYSTEMS ASSOC., INC.
4268 WEST ROADS DRIVE
WEST PALM BEACH, FL. 33407
PHONE: (800)432-2204
FAX: (561)209-8380

REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
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W.H.
DRAWN BY:

6/30/2026
DATE:

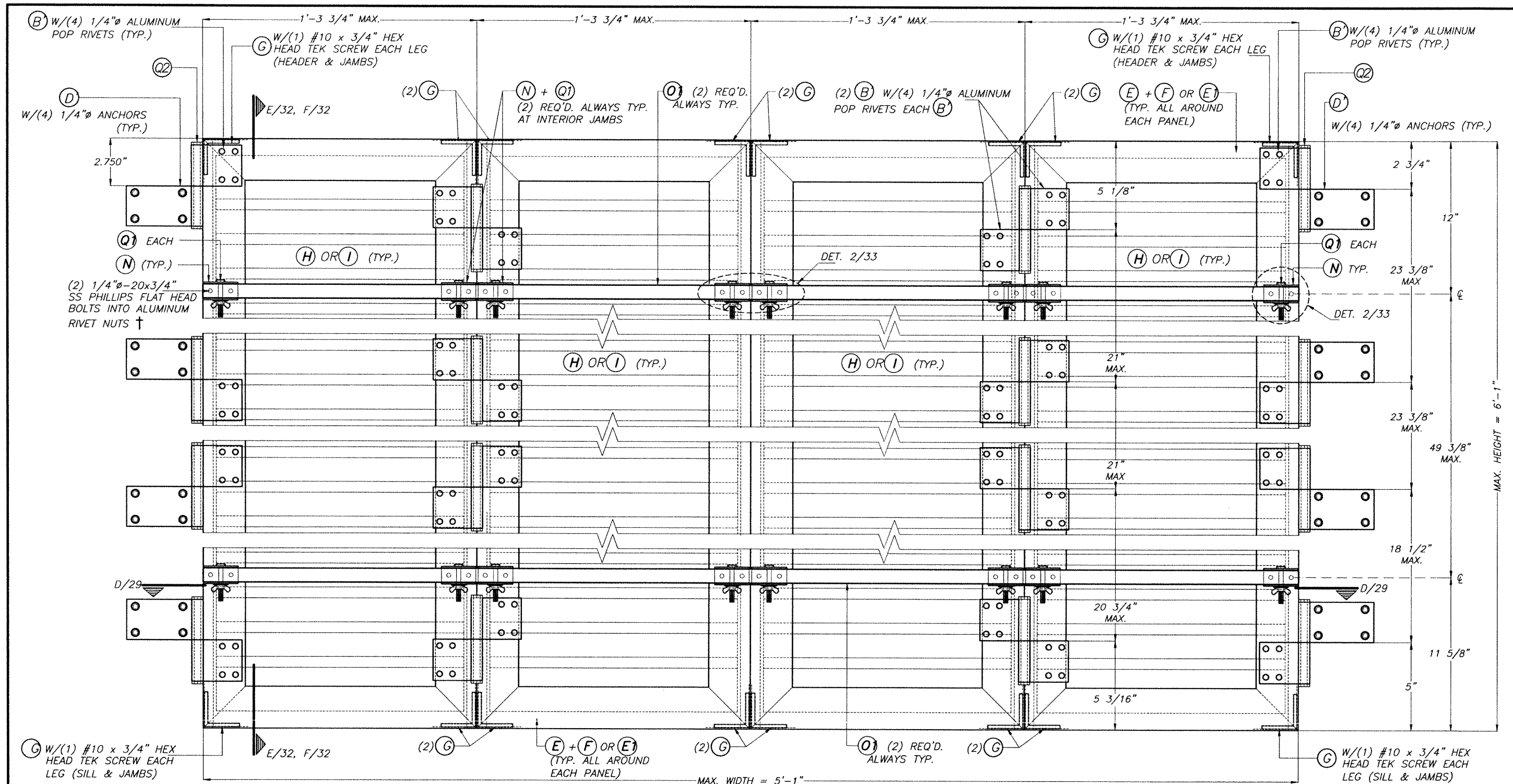
26-102

DRAWING No

SHEET 27 OF 33

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44167
P.E. SEAL/SIGNATURE/DATE

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



TYPICAL EXTERIOR ELEV. QUADRUPLE PANEL FOR (HURRICANE POSITION)

SCALE: 3/16"=1"

†: 1/4"Ø-20x3/4", AS DISTRIBUTED BY ALL
POINT SCREW, BOLT AND SPECIALTY CO.
(PART # 25CRFNA)

MAXIMUM A.S.D. DESIGN PRESSURE RATING = +51.0, -70.0 p.s.f. FOR
INSTALLATION INTO CONCRETE OR CONCRETE BLOCK WALL SUBSTRATE.

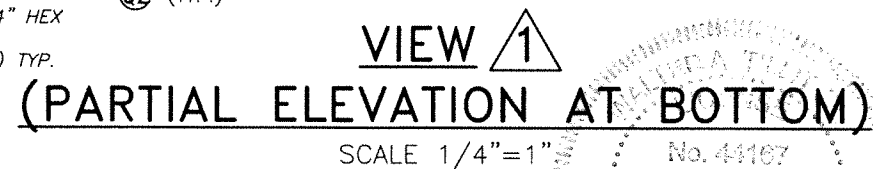
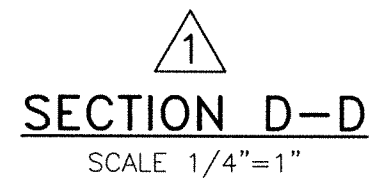
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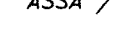
COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

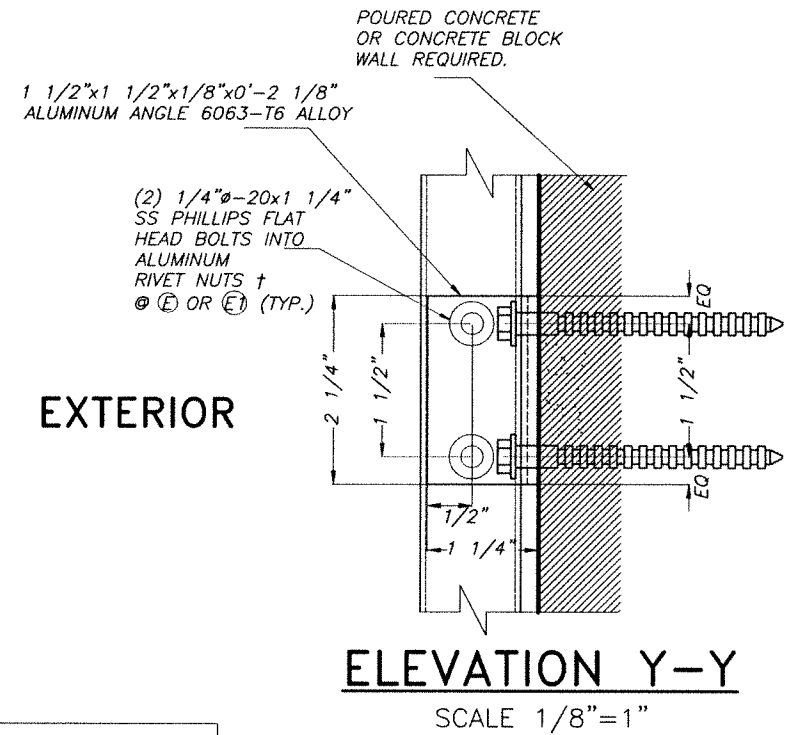
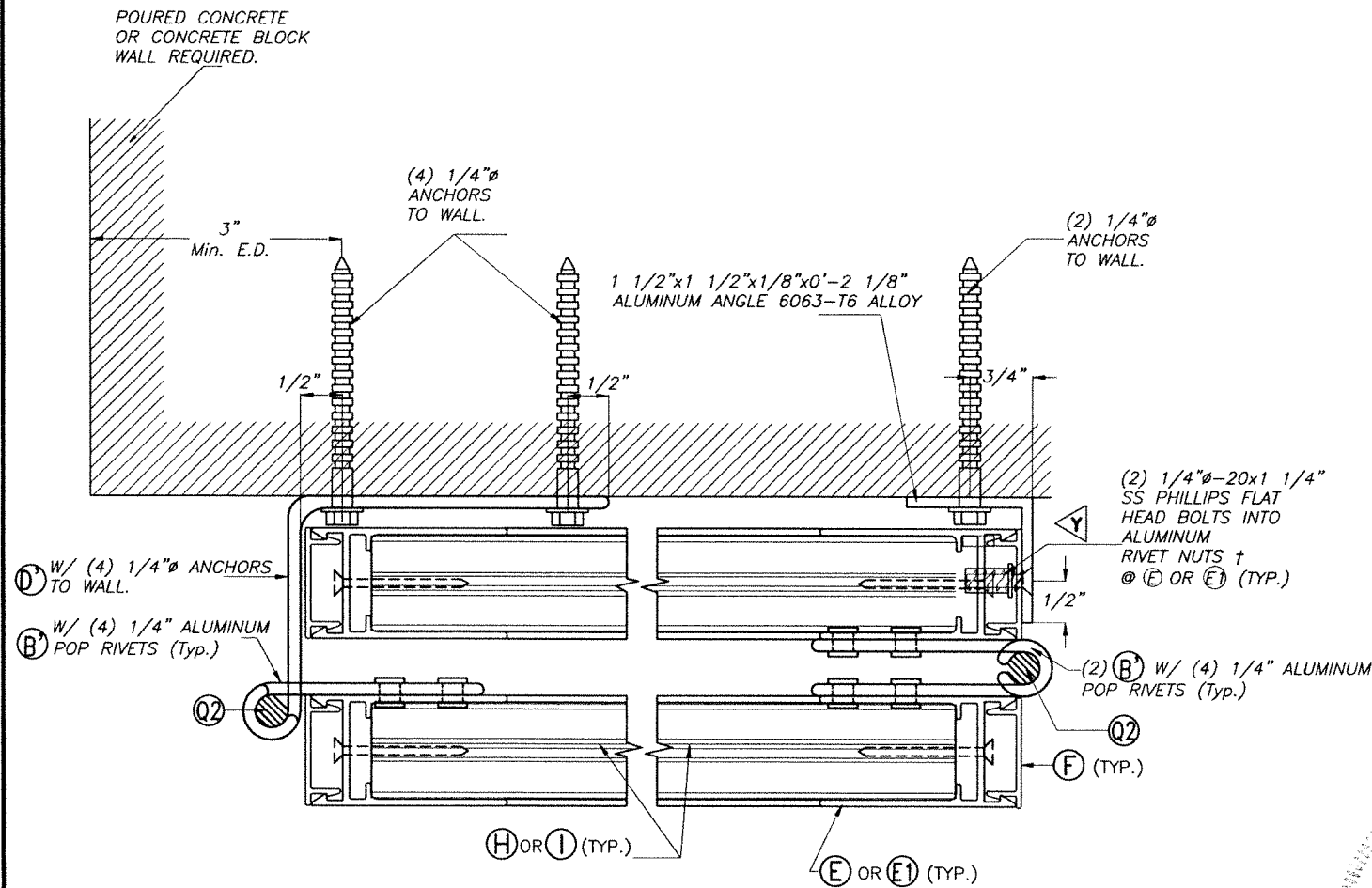
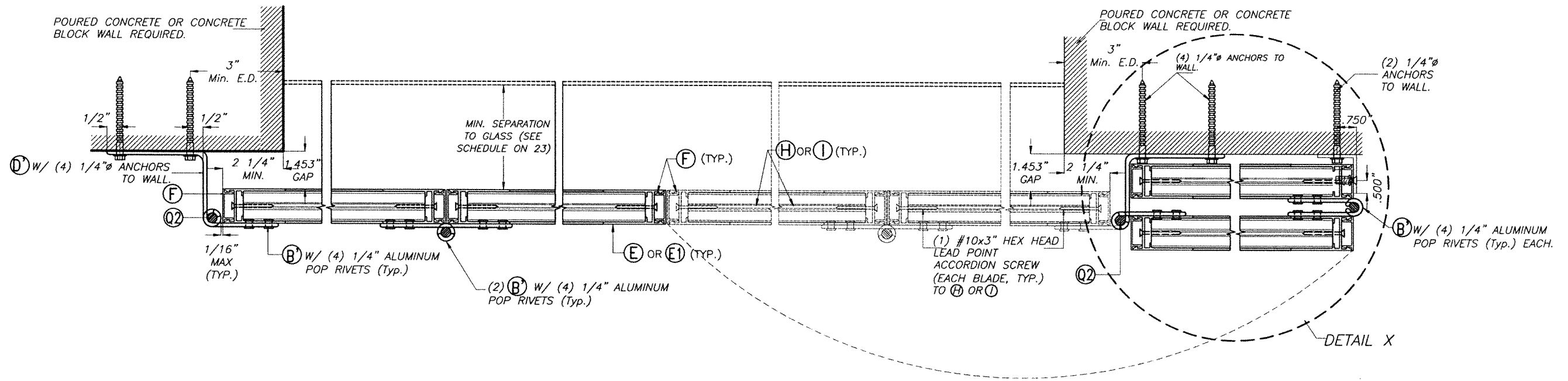
ASSA / BERTHA COLONIAL SHUTTER (WITH STORM BARS)			W.H. DRAWN BY:		
AMERICAN SHUTTER SYSTEMS ASSOC., INC.			6/30/2026 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (800)432-2204 FAX: (561)209-8380			26-102 DRAWING No		
REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		
			SHEET 28 OF 33		

P.E. SEAL/SIGNATURE/DATE

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FLORIDA Lic. # 44167



	ASSA / BERTHA COLONIAL SHUTTER (WITH STORM BARS)						W.H. DRAWN BY:																		
	AMERICAN SHUTTER SYSTEMS ASSOC., INC. 4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380						6/30/2026 DATE:																		
							26-102 DRAWING No																		
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE																				
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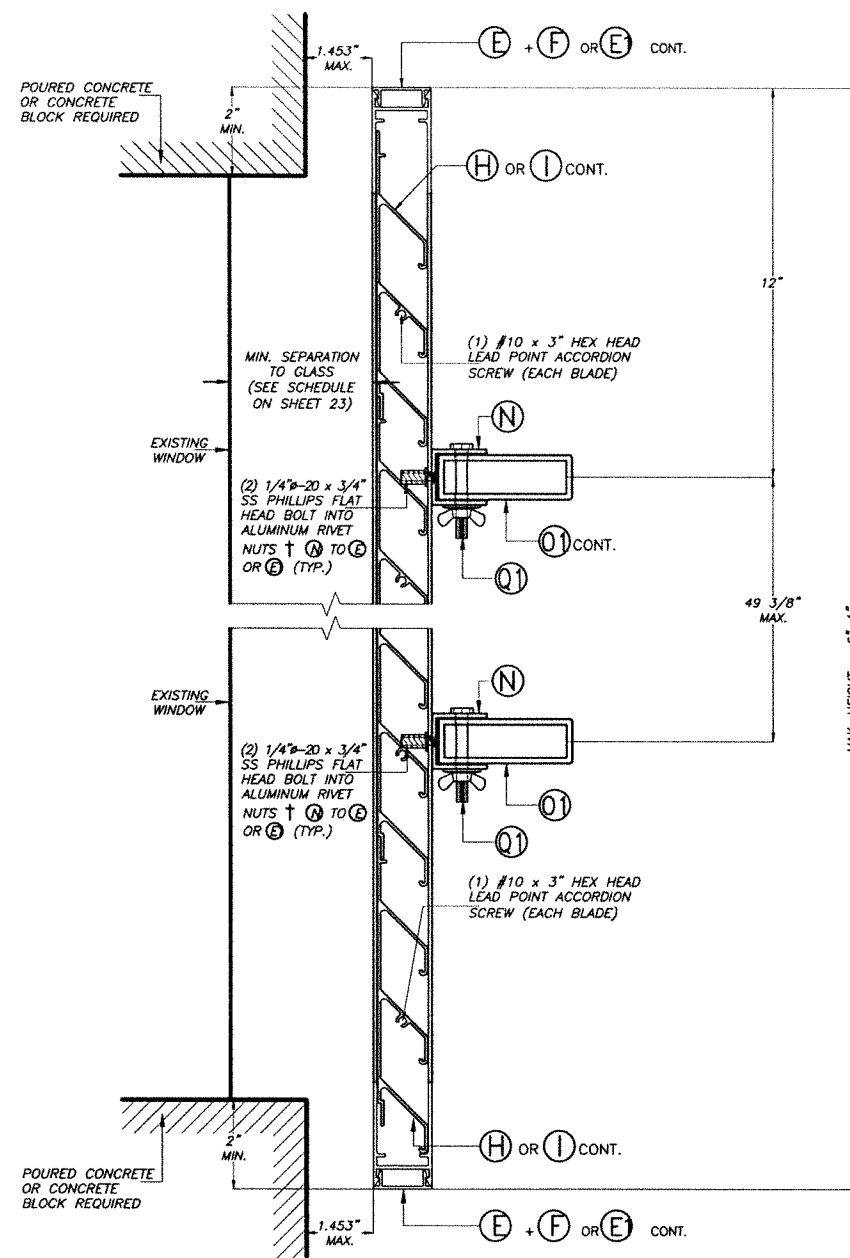
†: 1/4"-20x3/4", AS DISTRIBUTED BY ALL POINT SCREW, BOLT AND SPECIALTY CO. (PART # 25CRFNA)

DETAIL X (NON HURRICANE POSITION)
SCALE 1/8"=1"

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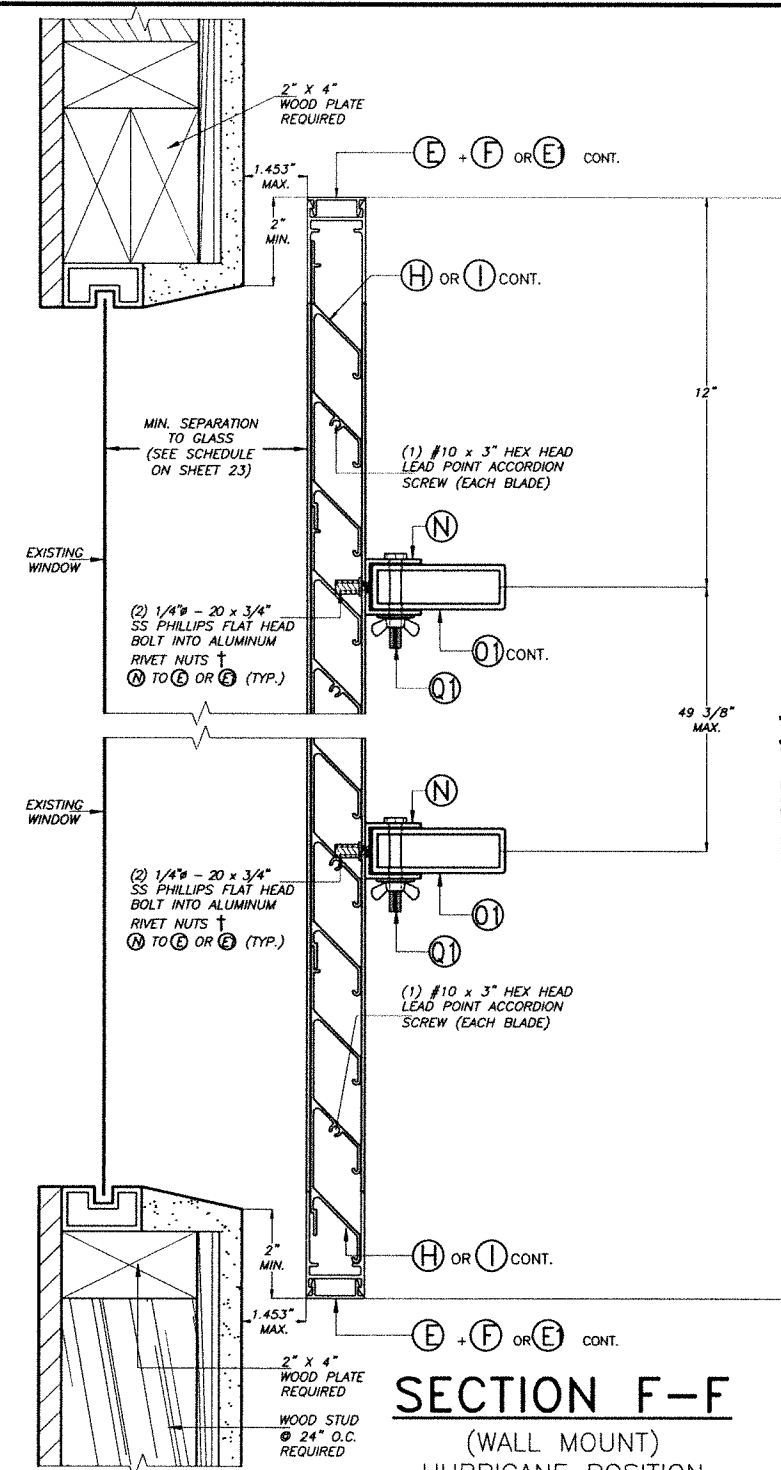
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COMBINATION DRAWING:					
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)					
ASSA / BERTHA COLONIAL SHUTTER (WITH STORM BARS)				W.H.	
AMERICAN SHUTTER SYSTEMS ASSOC., INC.				DRAWN BY:	
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380				6/30/2026	
				DATE:	
				26-102	
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REV. No	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 23-131	6/30/26	3		
2			4		
SHEET 30 OF 33					



SECTION E-E

(WALL MOUNT)
HURRICANE POSITION
SCALE 1/4"=1"

†: 1/4"Ø-20x3/4", AS DISTRIBUTED BY ALL
POINT SCREW, BOLT AND SPECIALTY CO.
(PART #25 CRFNA)



SECTION F-F

(WALL MOUNT)
HURRICANE POSITION
SCALE 1/4"=1"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

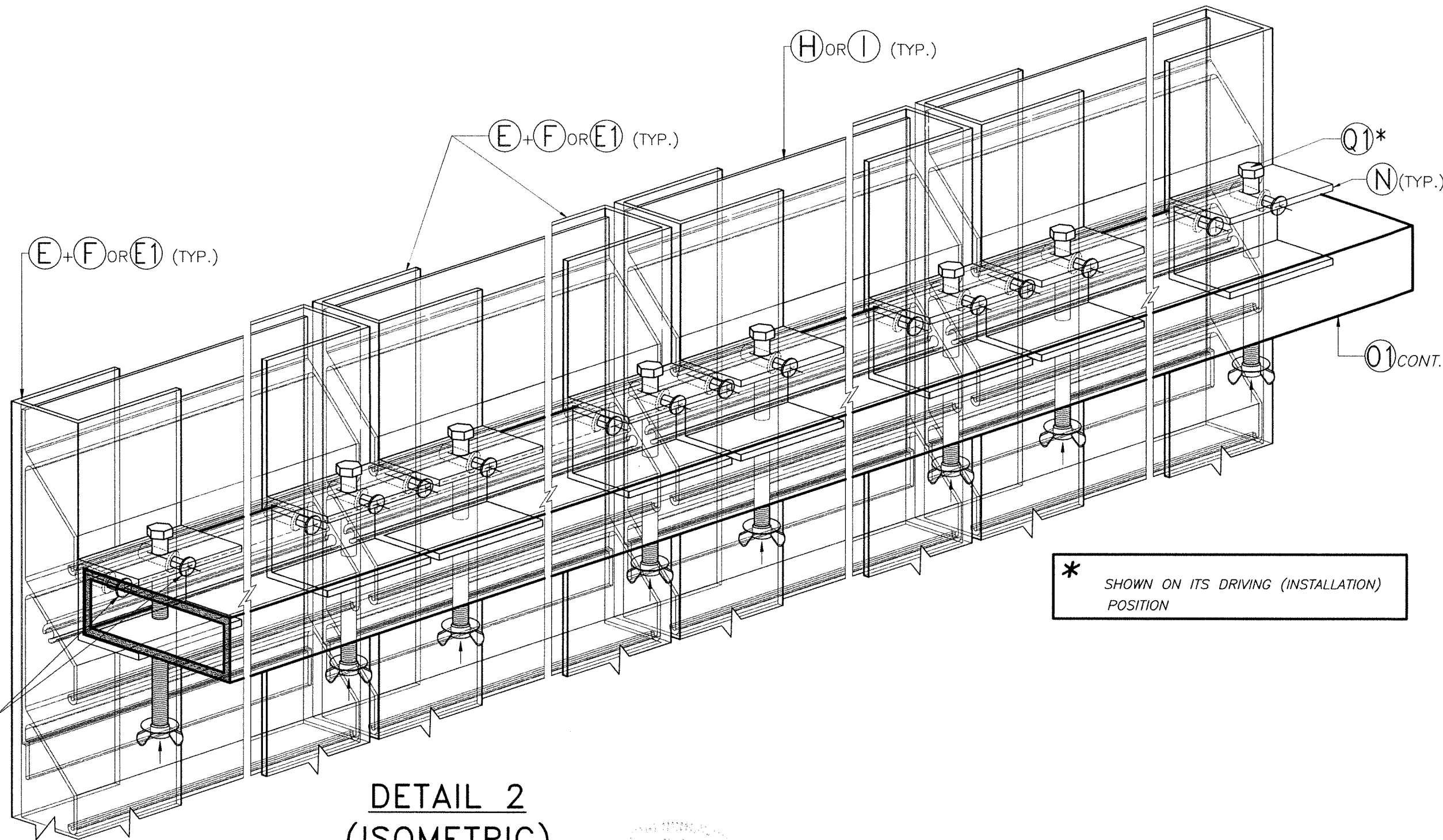
COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

ASSA / BERTHA COLONIAL SHUTTER (WITH STORM BARS)			W.H. DRAWN BY:		
AMERICAN SHUTTER SYSTEMS ASSOC., INC.			6/30/2026 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380			26-102 DRAWING No		
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SHEET 32 OF 33

No. 44167
7/22/2018
P.E. SEAL/SIGNATURE/DATE

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



* SHOWN ON ITS DRIVING (INSTALLATION) POSITION

(2) 1/4"Ø - 20 x 3/4"
SS PHILLIPS FLAT HEAD
BOLT INTO ALUMINUM
RIVET NUTS †
(N) TO (E) OR (E1) (TYP.)

DETAIL 2 (ISOMETRIC)

N.T.S

† 1/4"Ø-20x3/4", AS DISTRIBUTED BY ALL
POINT SCREW, BOLT AND SPECIALTY CO.
(PART # 25CRFNA)

STATE OF FLORIDA
Professional Engineer Seal
No. 44167
7/20/2026

P.E. SEAL/SIGNATURE/DATE

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FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

COMBINATION DRAWING:
ASSA / EXTRUDED BERTHA BAHAMA SHUTTER (SHEETS 1 THRU 9 OF 33)
ASSA / BERTHA COLONIAL SHUTTER (SHEETS 10 THRU 33 OF 33)

ASSA / BERTHA COLONIAL SHUTTER (WITH STORM BARS)			W.H. DRAWN BY:		
AMERICAN SHUTTER SYSTEMS ASSOC., INC.			6/30/2026 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL 33407 PHONE: (800)432-2204 FAX: (561)209-8380			26-102 DRAWING No		
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