

GENERAL NOTES:

1. BERTHA H.V. 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 AS REQUIRED BY THE JURISDICTION WHERE THESE SHUTTERS WILL BE INSTALLED FOR A DIRECTIONALITY FACTOR $K_d=0.85$. **ASCE 7-22** AND SHALL NOT EXCEED THE MAXIMUM (A.S.D.) DESIGN PRESSURE RATINGS INDICATED ON NOTE 2.
- 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 NOTE 2.
- 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 NOT USED IN THEIR ANALYSIS. HOWEVER, FOR CONNECTIONS INTO WOOD, A 1.60 WIND LOAD DURATION FACTOR WAS USED TO CALCULATE SCREW SPACING.
- BERTHA H.V. COLONIAL SHUTTER'S ADEQUACY FOR IMPACT AND CYCLIC RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION **1609.1.2** OF THE ABOVE MENTIONED CODE AS PER ATL REPORTS # 1215.01-06, # 0131.01-07 WITH ADDENDUM, AND 1222.01-20 AS PER ASTM E 1886, ASTM E 1996 AND ASTM E 330 STANDARDS, QUALIFIED FOR WIND ZONES 1, 2 & 3, MISSILE TYPE D & SMALL MISSILE (BASIC PROTECTION).
2. SEE ELEVATIONS ON SHEETS 3, 3A, 4 & 9 FOR MAX. A.S.D. DESIGN PRESSURE RATING & MAX. SHUTTERS DIMENSIONS.
3. ALL ALUMINUM EXTRUSIONS SHALL BE ALUMINUM ASSOCIATION 6063-T6 ALLOY AND TEMPER, WITH $F_y = 25.0$ 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.
4. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES WITH 50 ksi YIELD POINT AND 90 ksi TENSILE STRENGTH & SHALL COMPLY W/ FLORIDA BUILDING CODE SECTIONS 2411.3.3.4 & 1711.
5. BOLTS TO BE AISI 304 SERIES STAINLESS STEEL WITH 35 ksi MINIMUM YIELD STRENGTH.
6. ALL ALUMINUM POP RIVETS TO BE 5052 ALUMINUM ALLOY WITH ALUMINUM MANDREL.
7. ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)

- (A) TO EXISTING WOOD FRAME WALL: SOUTHERN PINE No.2, $G=0.55$.
- 1/4" $\varnothing$ 410 SS TAPCON, 1/4" $\varnothing$ ULTRA CON+ OR ULTRA CON SS4 ANCHORS AS MANUFACTURED BY I.T.W. BUILDDEX, INC. OR DEWALT RESPECTIVELY.

NOTES:

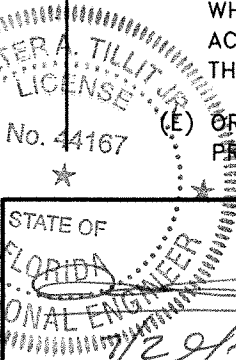
- A.1) MINIMUM THREADED PENETRATION OF ANCHORS INTO WOOD SHALL BE 1 1/2".
- A.2) IN CASE THAT PRECAST STONE OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE AS INDICATED ON NOTES A.1).
- (B) TO EXISTING POURED CONCRETE MIN. ($f'_c = 3192$ p.s.i) OR ASTM C-90 CONCRETE BLOCK
- 1/4" $\varnothing$ 410 SS TAPCON, 1/4" $\varnothing$ ULTRA CON+ OR ULTRA CON SS4 ANCHORS AS MANUFACTURED BY I.T.W./BUILDDEX OR DEWALT RESPECTIVELY.

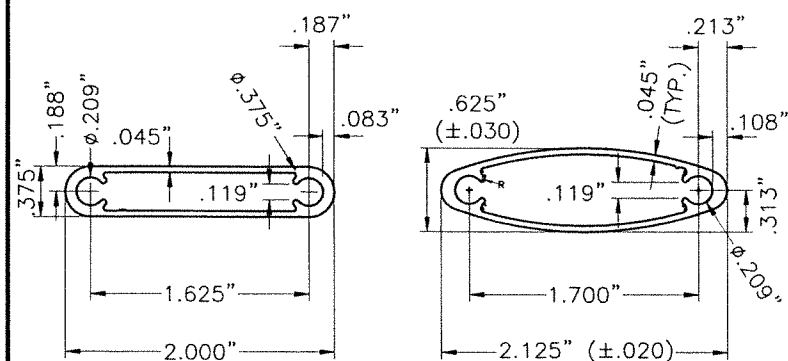
THIS DRAWING SHALL ONLY BE USED TO
OBTAIN PERMITS IN THE STATE OF FLORIDA

NOTES:

- B.1) MINIMUM EMBEDMENT OF ANCHORS INTO THE POURED CONCRETE UNIT SHALL BE 1 3/4" AND IN CONCRETE BLOCK UNIT SHALL BE 1 1/4".
- B.2) 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).
- (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.
8. EACH SHUTTER SHALL HAVE A LEGIBLE AND READILY VISIBLE MARKING INSTRUCTING OWNER OR TENANT TO SECURE SHUTTER WITH STORM BARS & SAFETY PINS DURING PERIODS OF HURRICANE WARNINGS.
9. 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. CONTRACTOR TO SEAL/CAULK ALL SHUTTER COMPONENT EDGES WHICH REMAIN IN CONTINUOUS CONTACT WITH THE BUILDING TO PREVENT WIND/RAIN INTRUSION.
10. OWNER TO BE RESPONSIBLE FOR PROVIDING A SUITABLE PLATFORM OR BALCONY WHEN SECURING UNIT DURING HURRICANE WARNINGS.
11. BERTHA H.V. 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.
12. SHUTTER MANUFACTURER'S LABEL SHALL BE LOCATED AT A READILY VISIBLE LOCATION ON THE COLONIAL SHUTTER IN ACCORDANCE WITH SECTION 1709.9.2 OF FLORIDA BUILDING CODE. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.
13. (A) THIS PRODUCT EVALUATION DOCUMENT (P.E.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I. E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.E.D.
- (B) 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.

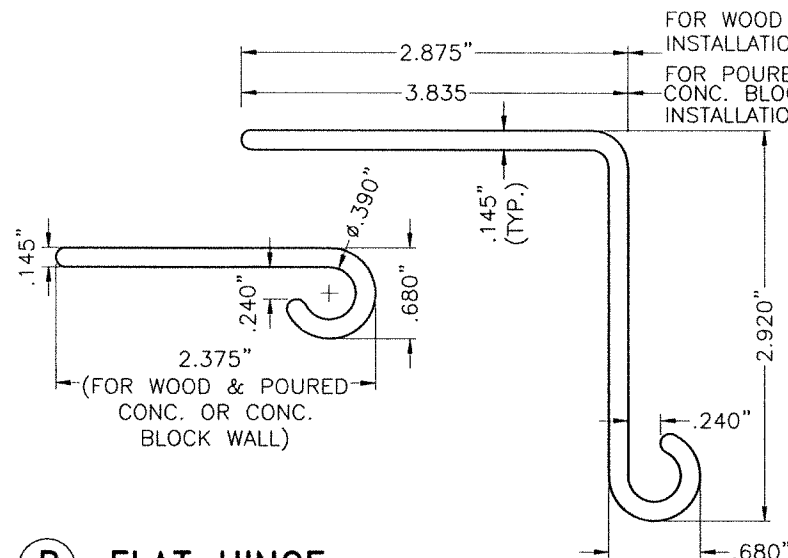
FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

				ASSA / BERTHA H.V. COLONIAL SHUTTER (LARGE & SMALL MISSILE)		W.H. DRAWN BY:	
TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 • Fax : (305)871-1531 CA-0006719 WALTER A. TILLIT Jr., P.E. FLORIDA Lic. # 44167		TILTECO Inc. ©2026 TILTECO, INC.		AMERICAN SHUTTER SYSTEMS ASSOC., INC. 4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380		6/29/2026 DATE:	
P.E. SEAL/SIGNATURE/DATE				REV. No		26-097 DRAWING No:	
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				DATE			
				REV. No			
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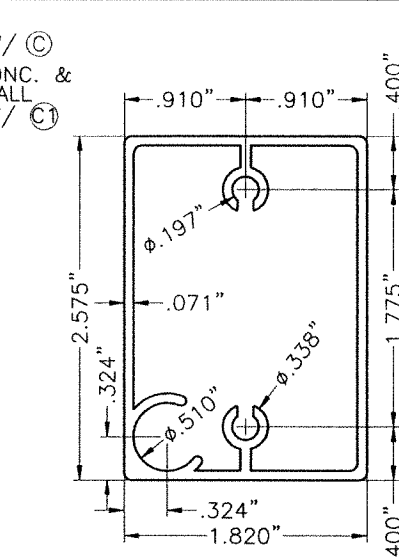


A LOUVER BLADE
6063-T6 Alum. ALLOY

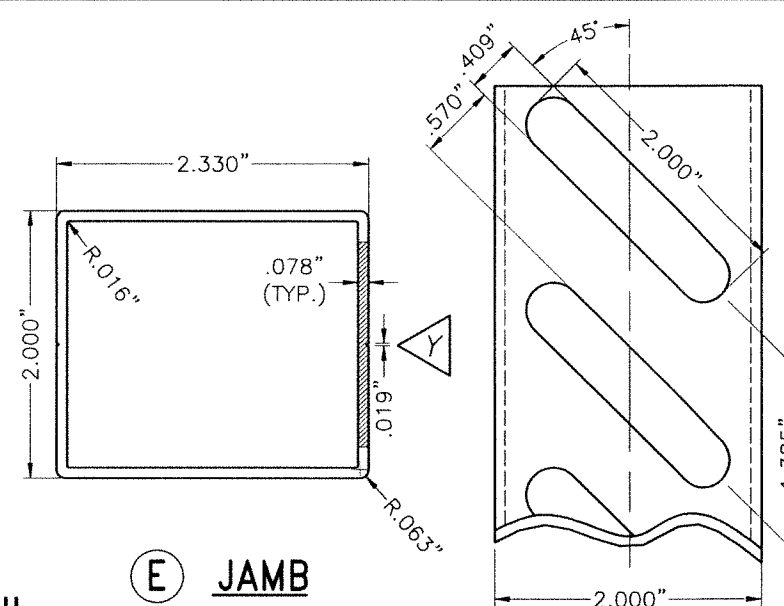
A1 AIRFOIL OPTIONAL LOUVER BLADE TO A
6063-T6 Alum. ALLOY



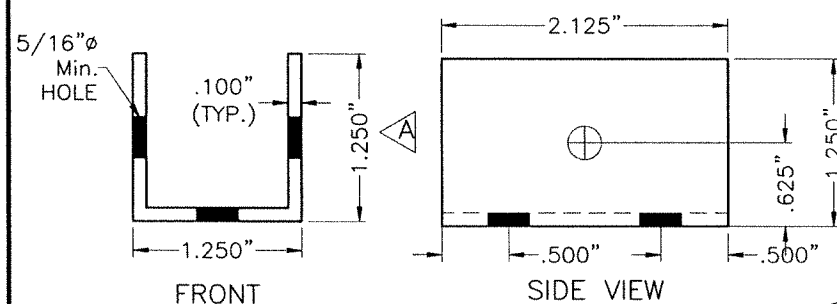
B FLAT HINGE
6063-T6 Alum. ALLOY
2" LONG.



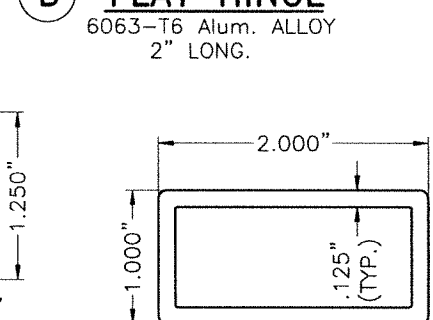
D TOP & BOTTOM RAIL
6063-T6 Alum. ALLOY



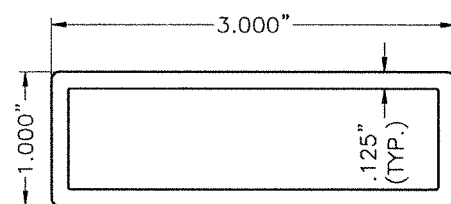
E JAMB



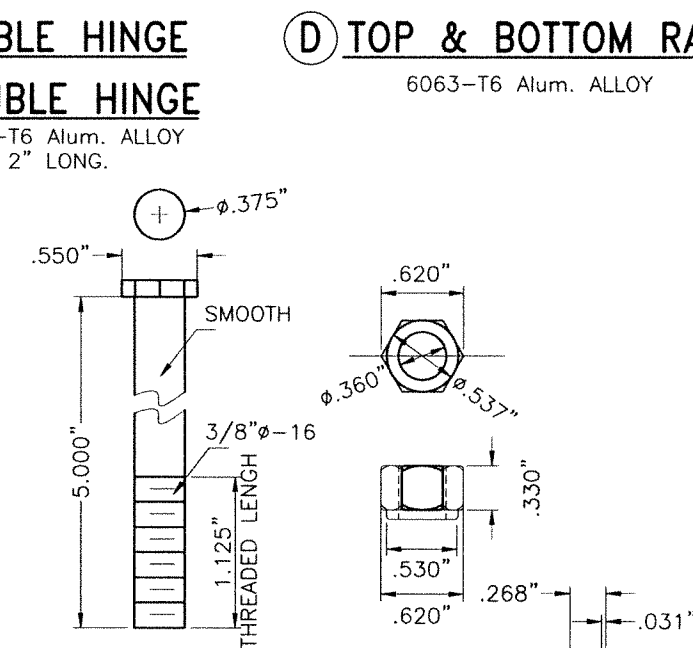
F H.V. STORM BAR CLIP
6063-T6 Alum. ALLOY
2 1/8" LONG.



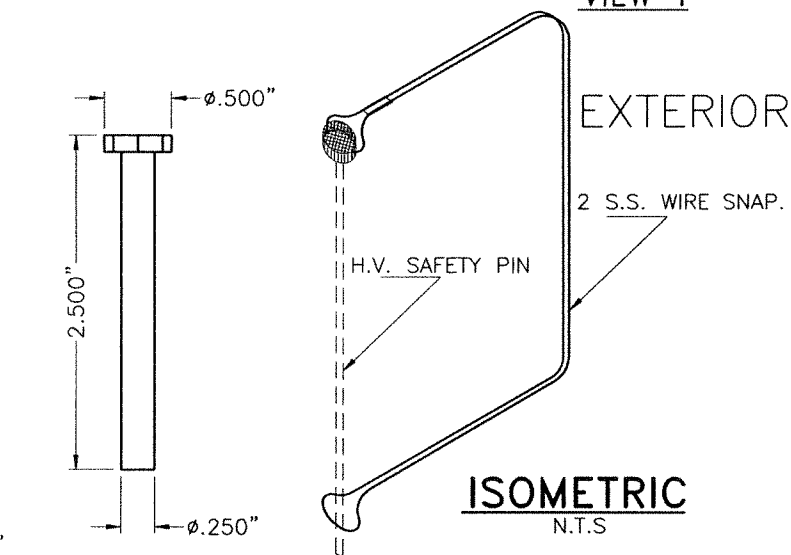
G STORM BAR TYPE 1



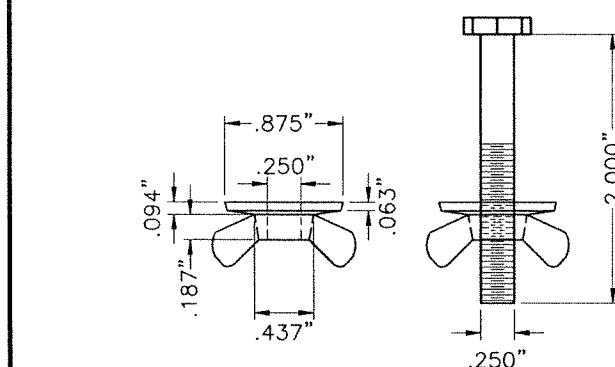
G1 STORM BAR TYPE 2



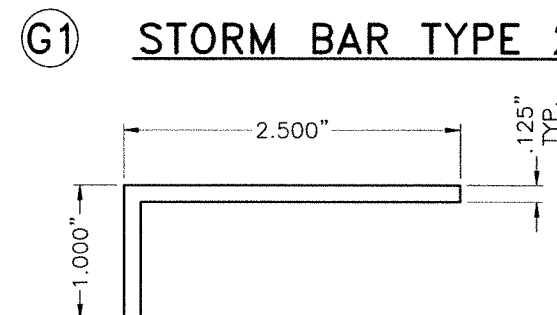
H S.S. HINGE PIN W/ LOCK NUT.



I S.S. H.V. SAFETY PIN W/ 2 S.S. WIRE SNAP



I1 1/4" Ø-20X2" S.S. HEX HEAD BOLT W/DIE CAST ZINC NICKEL PLATED WASHER WINGNUT



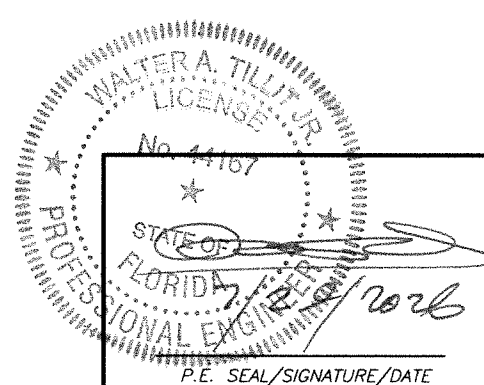
J NON HURRICANE BRACKET ANGLE
6063-T6 Alum. ALLOY
2 1/8" LONG.

L SCREEN SPLINE FLANGE FOR (M)
6005-T5 Alum. ALLOY

M PVC COATED FIBERGLASS SCREEN
18.0 Lb TEAR WARP CAPACITY
(MODEL 1814013 FIB, By ADFORS-ST-GOBAIN)

COMPONENTS

SCALE: 3/4" = 1"



FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

ASSA / BERTHA H.V. COLONIAL SHUTTER (LARGE & SMALL MISSILE)

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 23-134 6/29/26 3
2 4

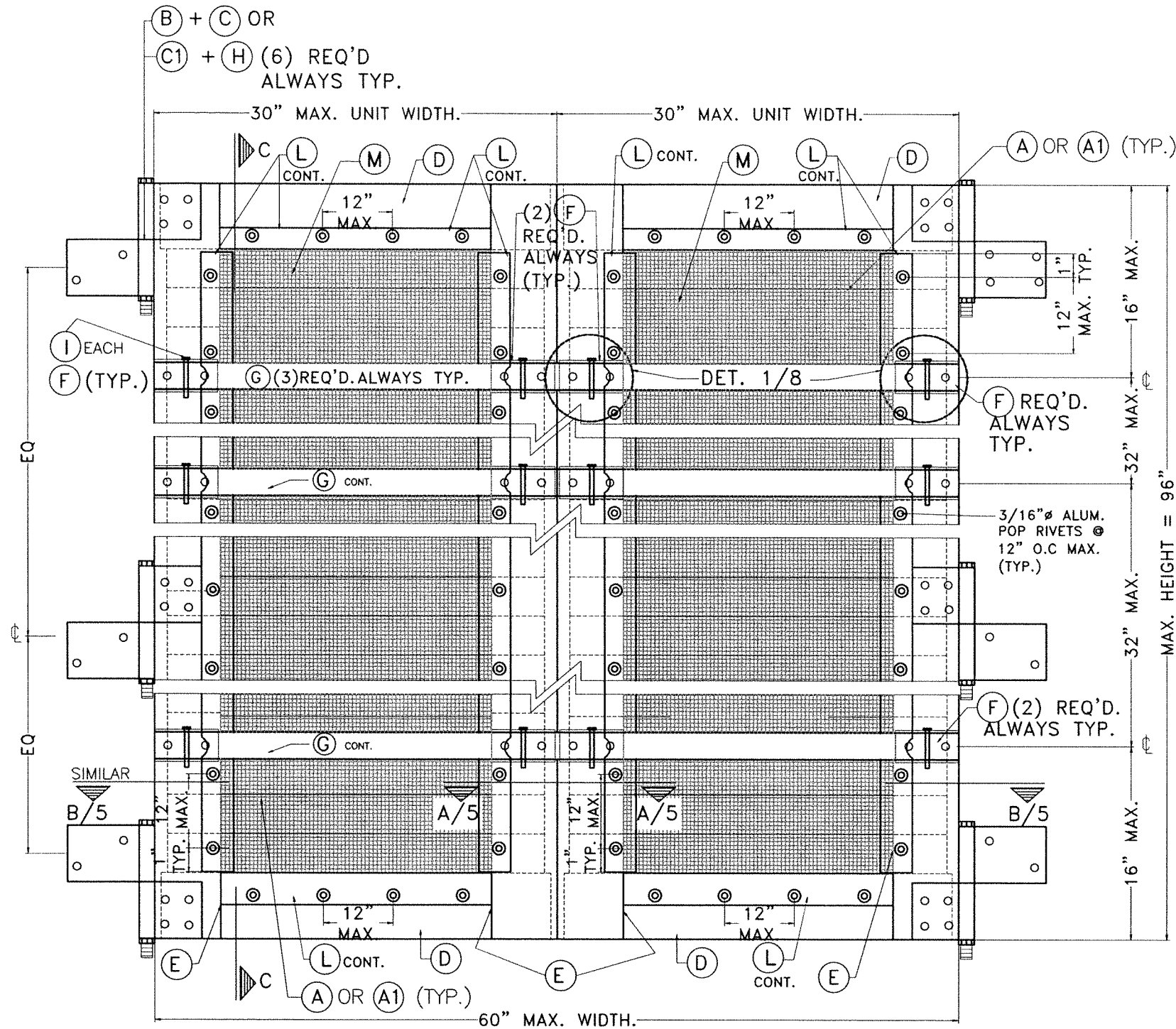
W.H. DRAWN BY:

6/29/2026 DATE:

26-097

DRAWING No:

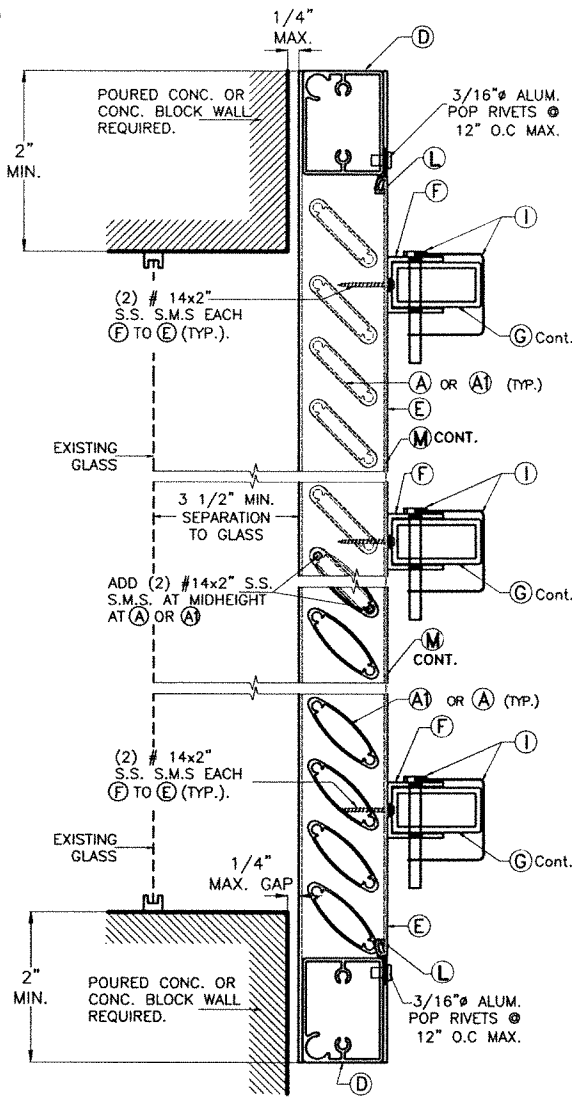
SHEET 2 OF 14



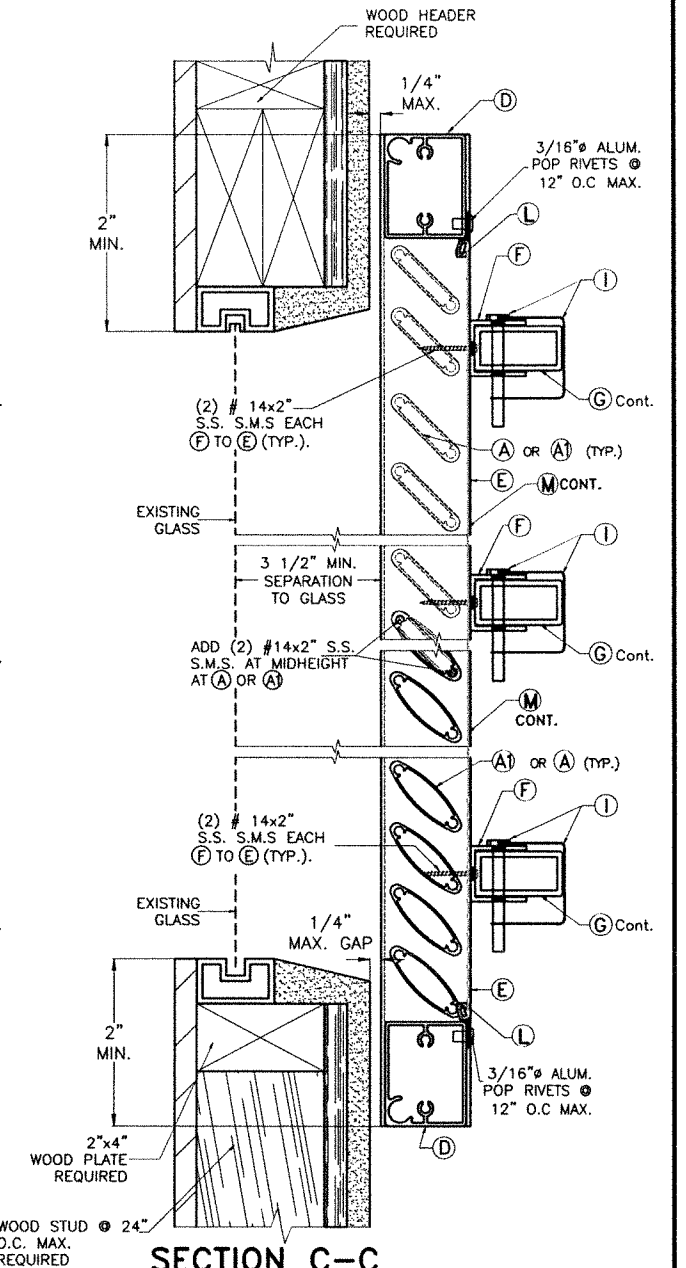
**TYPICAL EXTERIOR ELEV. DOUBLE PANEL FOR WOOD OR CONCRETE
(HURRICANE POSITION)**

N.T.S.

**MAXIMUM A.S.D. DESIGN
PRESSURE RATING = +45, -55 psf.**



**SECTION C-C
(WALL MOUNT)
HURRICANE POSITION
SCALE: 1/4" = 1"**



**SECTION C-C
(WALL MOUNT)
HURRICANE POSITION
SCALE: 1/4" = 1"**

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

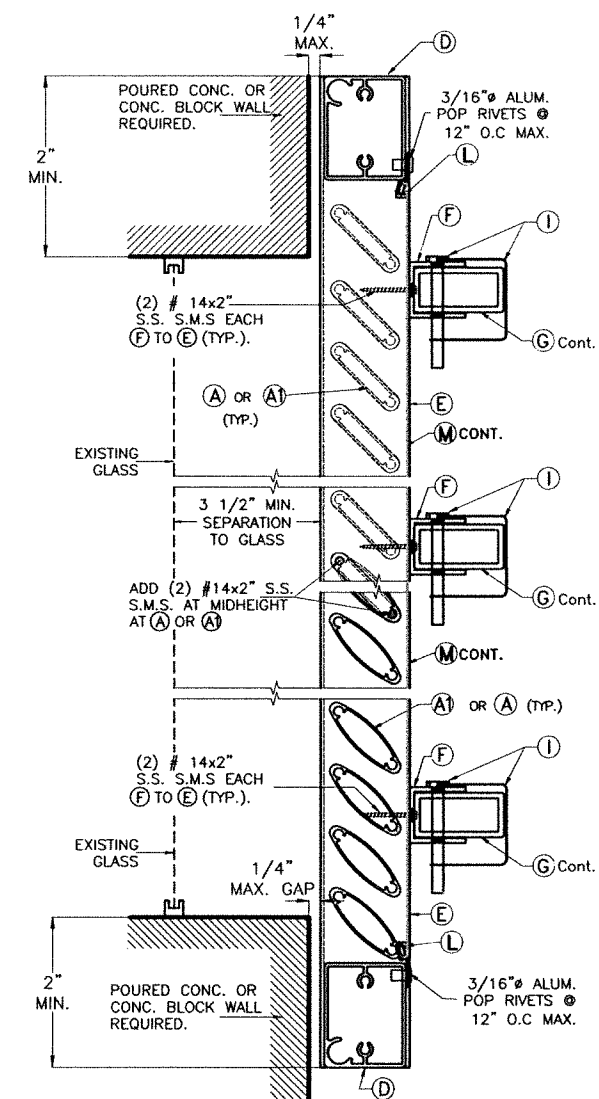
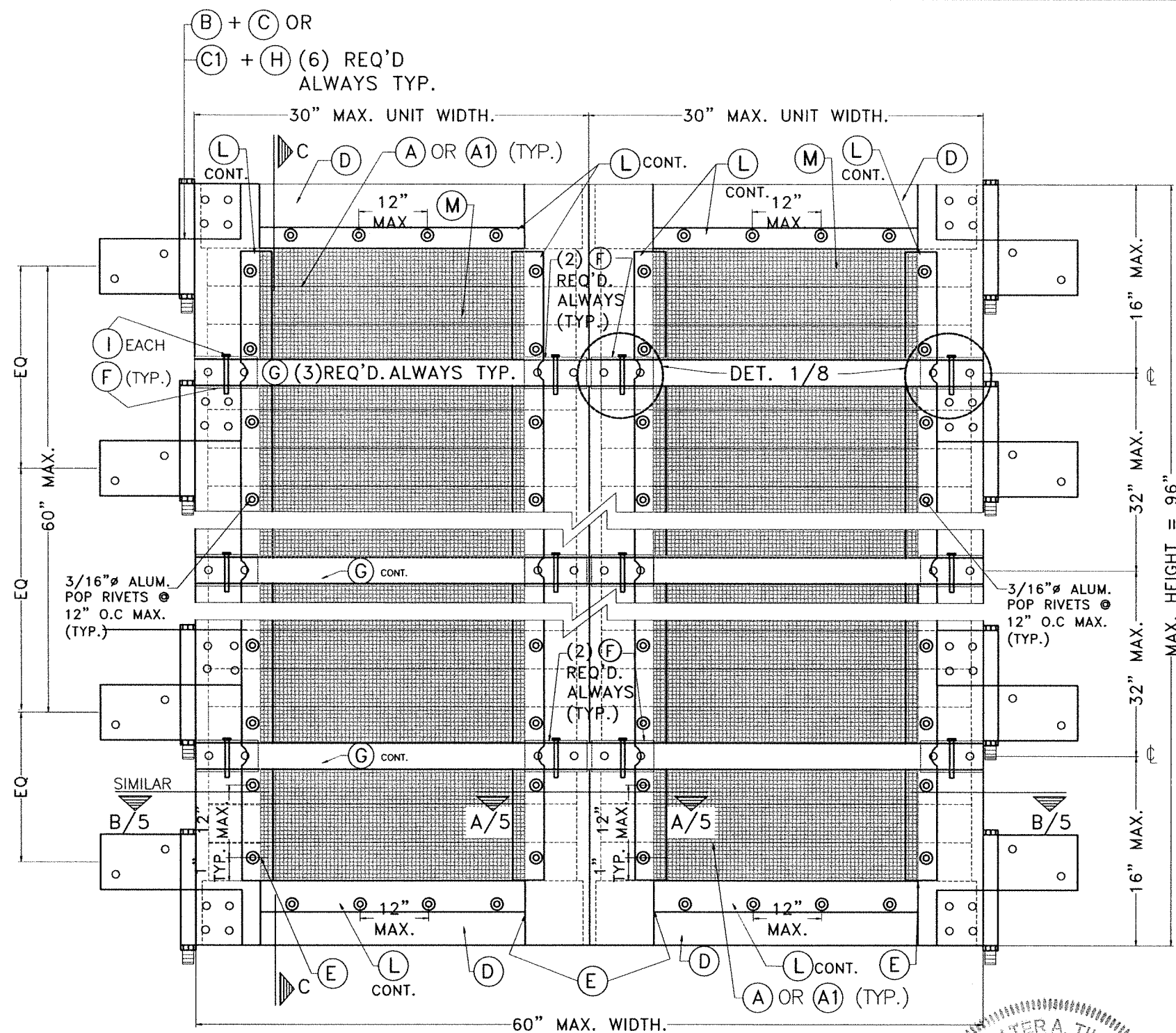
WALTER A. TILLIT JR.
LICENSE
NO. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
P.E. SEAL/SIGNATURE/DATE

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TILTECO INC.
TILLIT TESTING & ENGINEERING COMPANY
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FAX: (561)209-8380

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2			4		

W.H. DRAWN BY:
6/29/2026 DATE:
26-097
DRAWING No:
SHEET 3 OF 14



SECTION C-C
(WALL MOUNT)
HURRICANE POSITION
SCALE: 1/4" = 1"

TYPICAL EXTERIOR ELEV. DOUBLE PANEL FOR CONCRETE BLOCK.
(HURRICANE POSITION)

N.T.S.

MAXIMUM A.S.D. DESIGN PRESSURE RATING = +45, -55 psf.

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

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DRAWN BY:

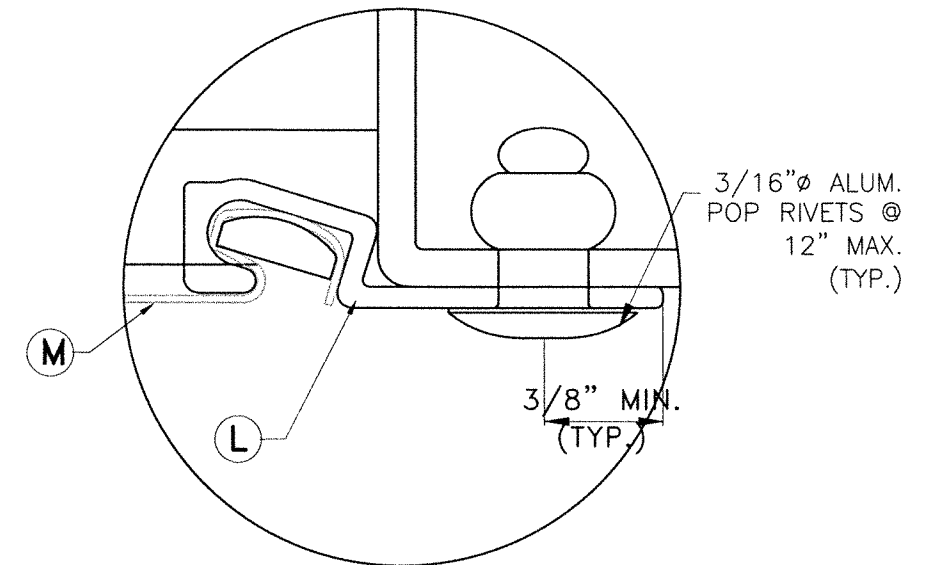
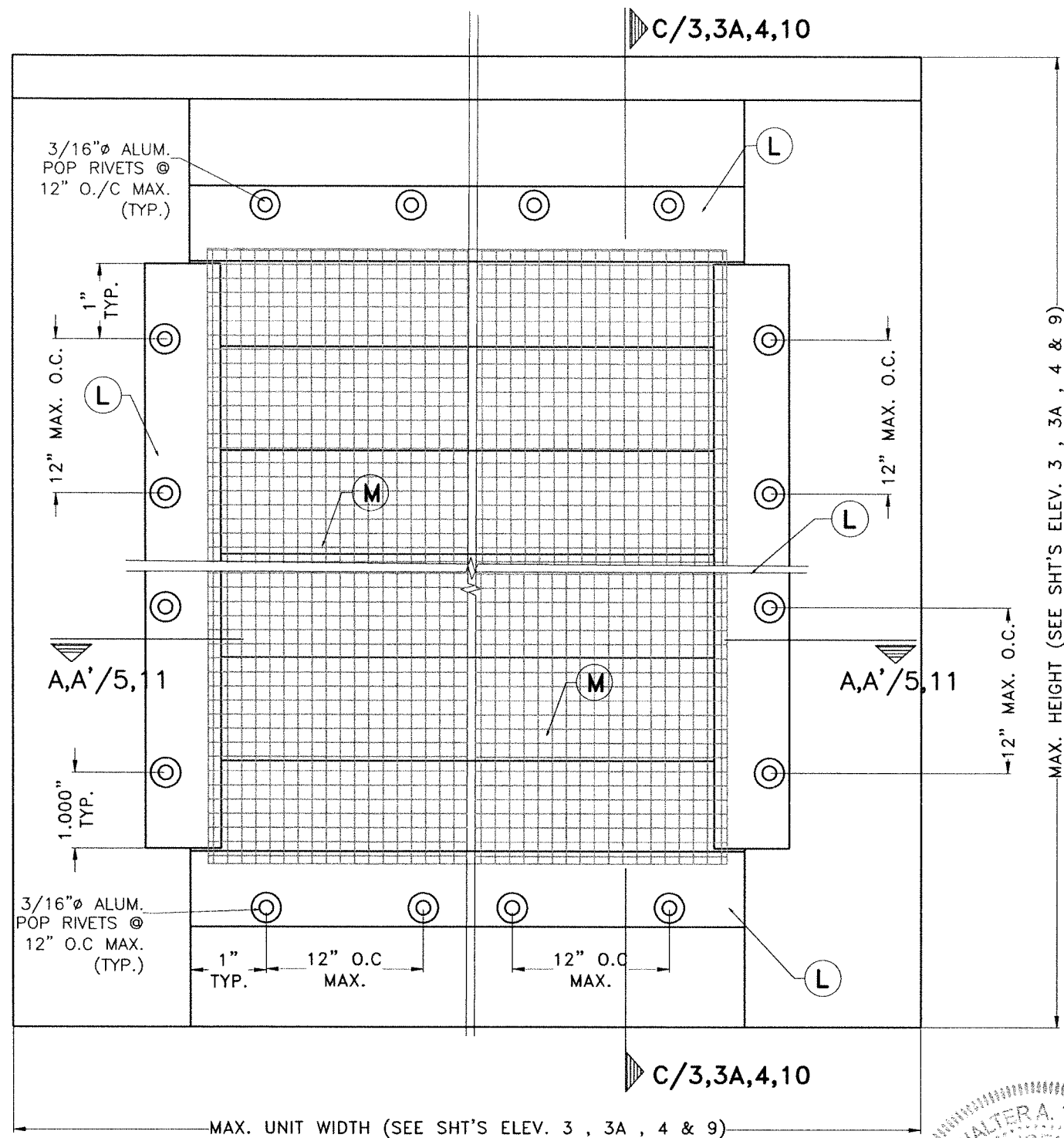
6/29/2026
DATE:

26-097

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SHEET 3A OF 14



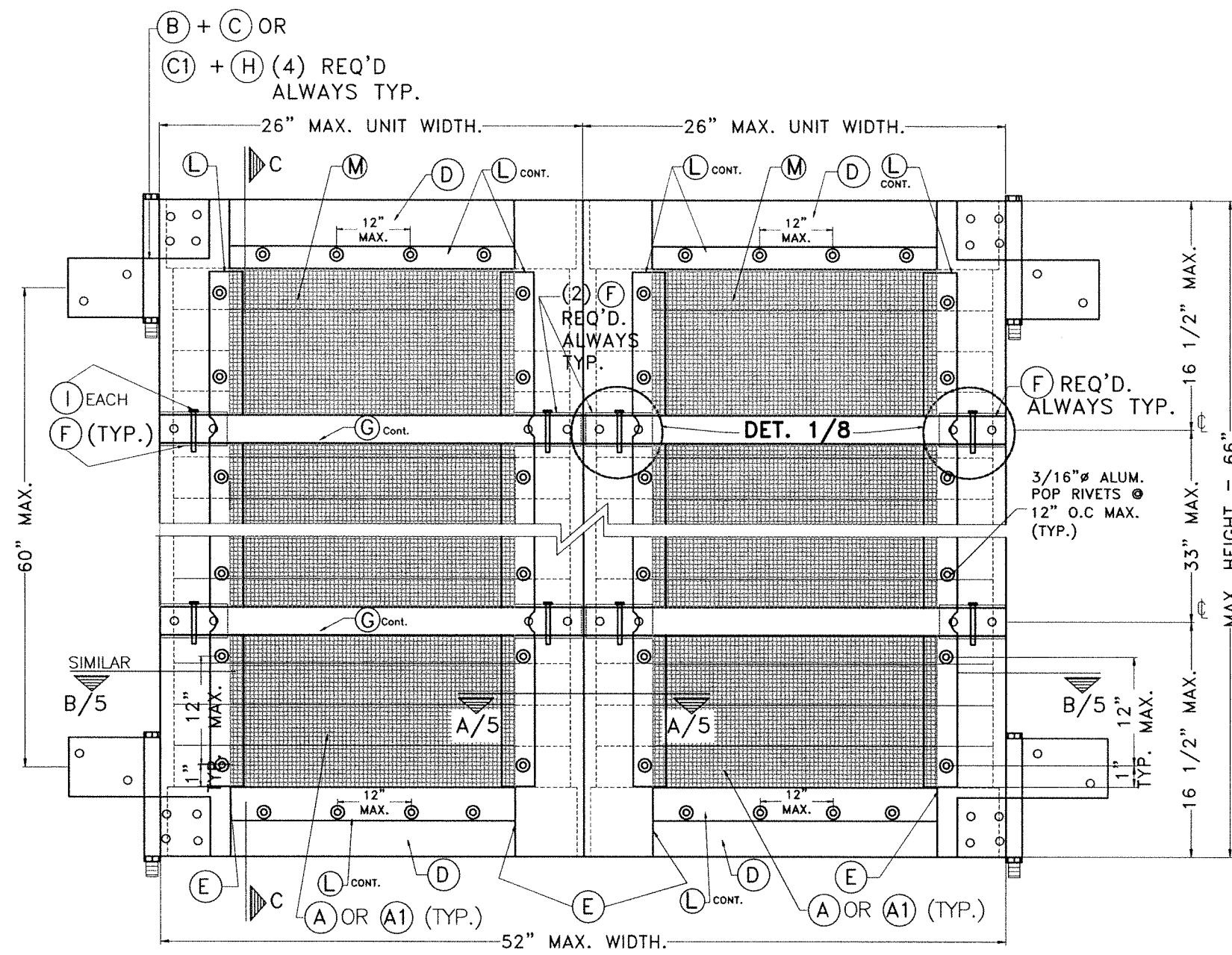
**INTERIOR ELEVATION Δ FOR TYPICAL SINGLE PANEL
HV COLONIAL SCREEN ATTACHMENT**
N.T.S.

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

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TILTECO INC.
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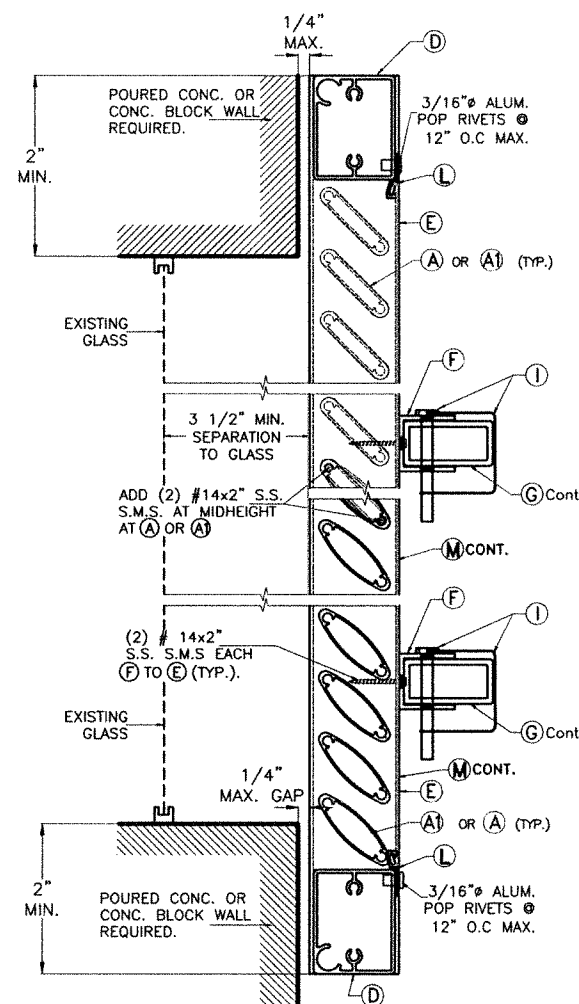
ASSA / BERTHA H.V. COLONIAL SHUTTER (LARGE & SMALL MISSILE)			W.H. DRAWN BY:		
AMERICAN SHUTTER SYSTEMS ASSOC., INC.			6/29/2026 DATE:		
4268 WEST ROADS DRIVE WEST PALM BEACH, FL. 33407 PHONE: (800)432-2204 FAX: (561)209-8380			26-097 DRAWING No:		
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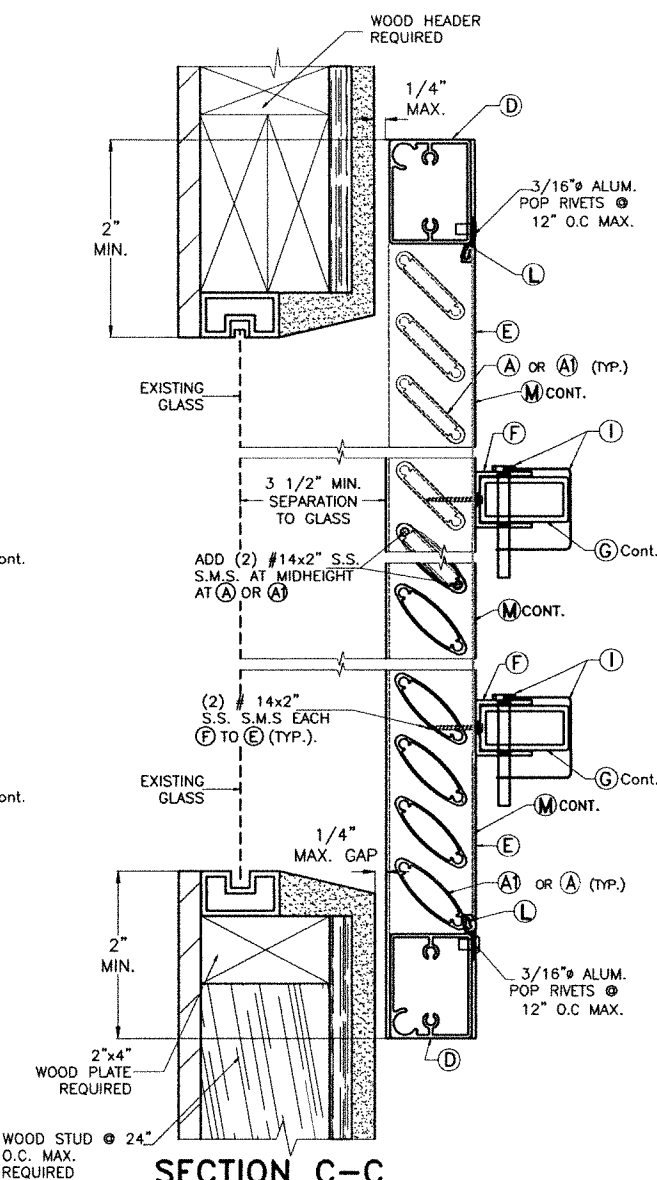
TYPICAL EXTERIOR ELEV. DOUBLE PANEL
 (HURRICANE POSITION)

N.T.S.

MAXIMUM A.S.D. DESIGN
 PRESSURE RATING = +45, -55 psf.



SECTION C-C
 (WALL MOUNT)
 HURRICANE POSITION
 SCALE: 1/4" = 1"



SECTION C-C
 (WALL MOUNT)
 HURRICANE POSITION
 SCALE: 1/4" = 1"

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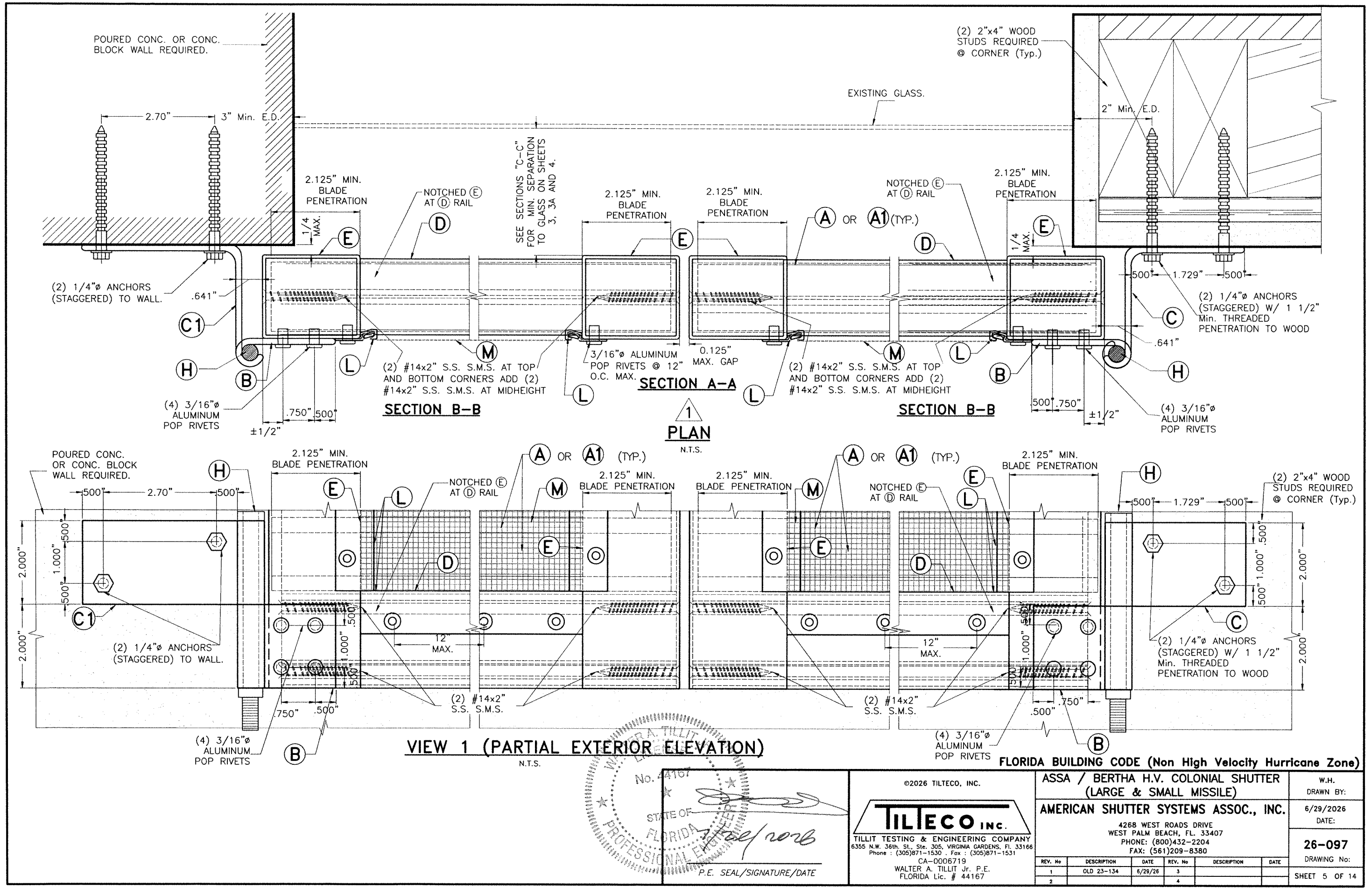
W.H.
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6/29/2026
DATE:

26-097

DRAWING No:

SHEET 4 OF 14



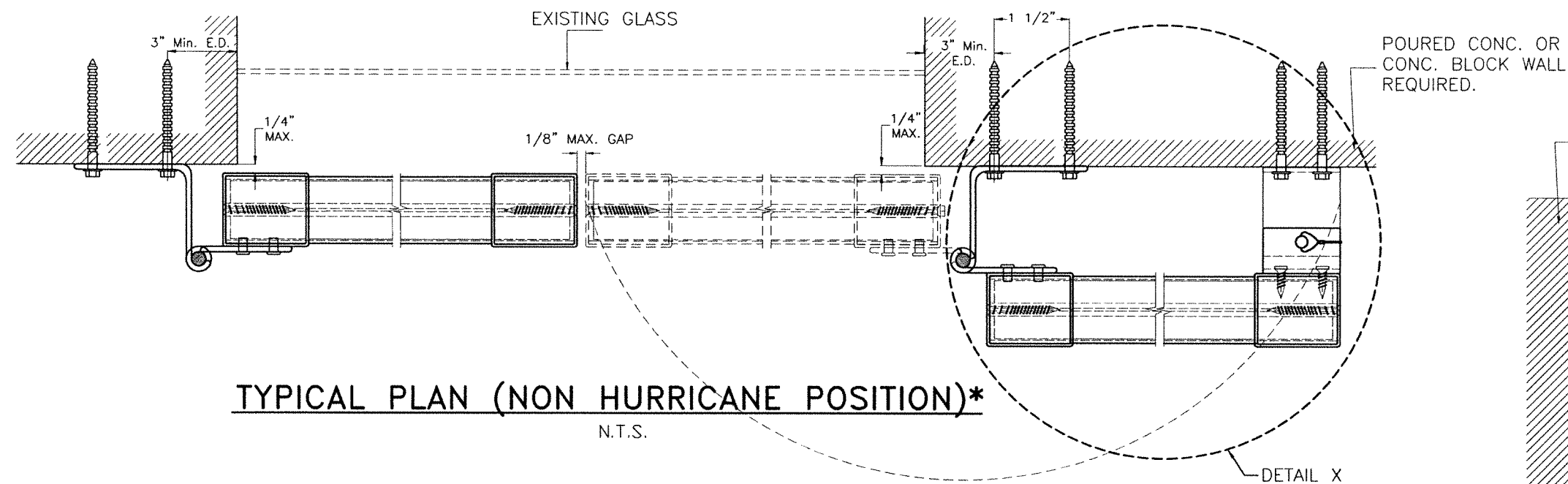
WALTER A. TILLIT, JR.
No. 44167
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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W.H.
DRAWN BY:
6/29/2026
DATE:
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SHEET 5 OF 14

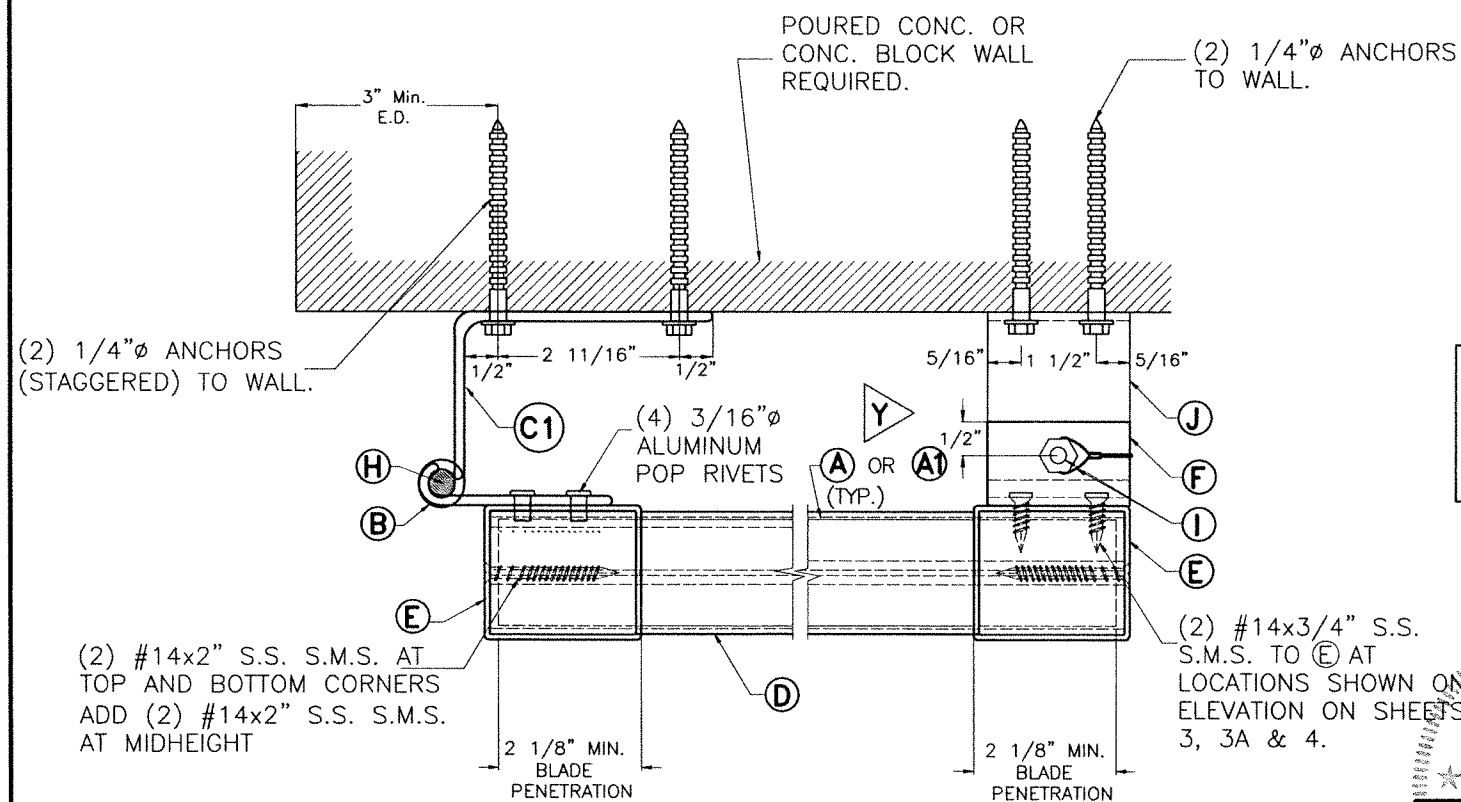
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2			4		



TYPICAL PLAN (NON HURRICANE POSITION)*

N.T.S.

DETAIL X

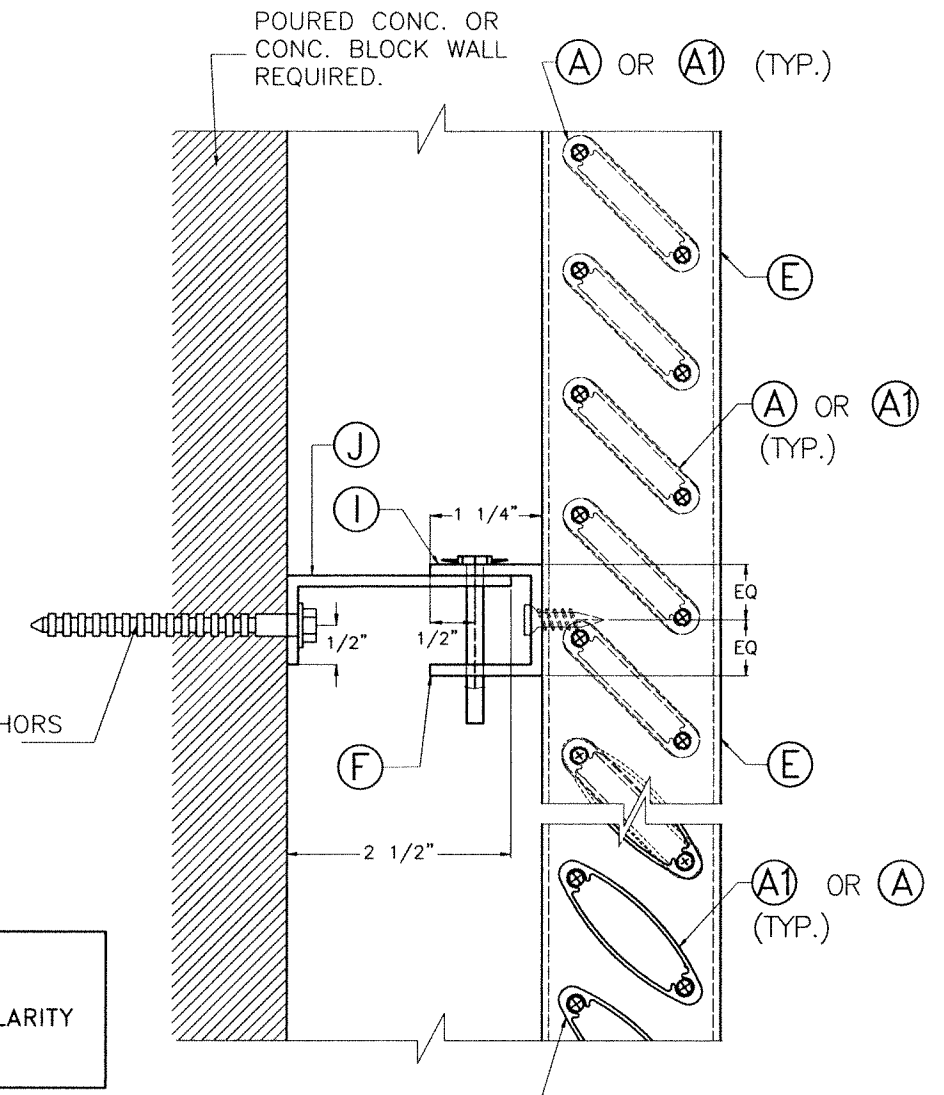


DETAIL X (NON HURRICANE POSITION)

SCALE: 3/8"=1"

***NOTE:**

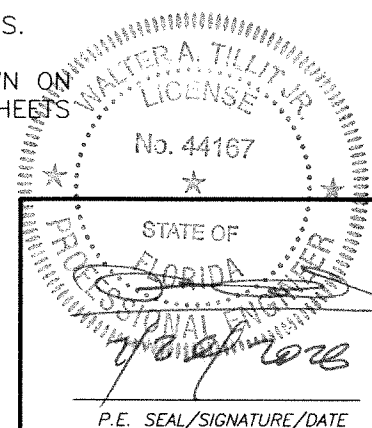
SCREEN (M) & (L) NOT SHOWN FOR CLARITY
(SEE ELEVATIONS)



ELEVATION Y-Y

SCALE: 1/2"=1"

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)



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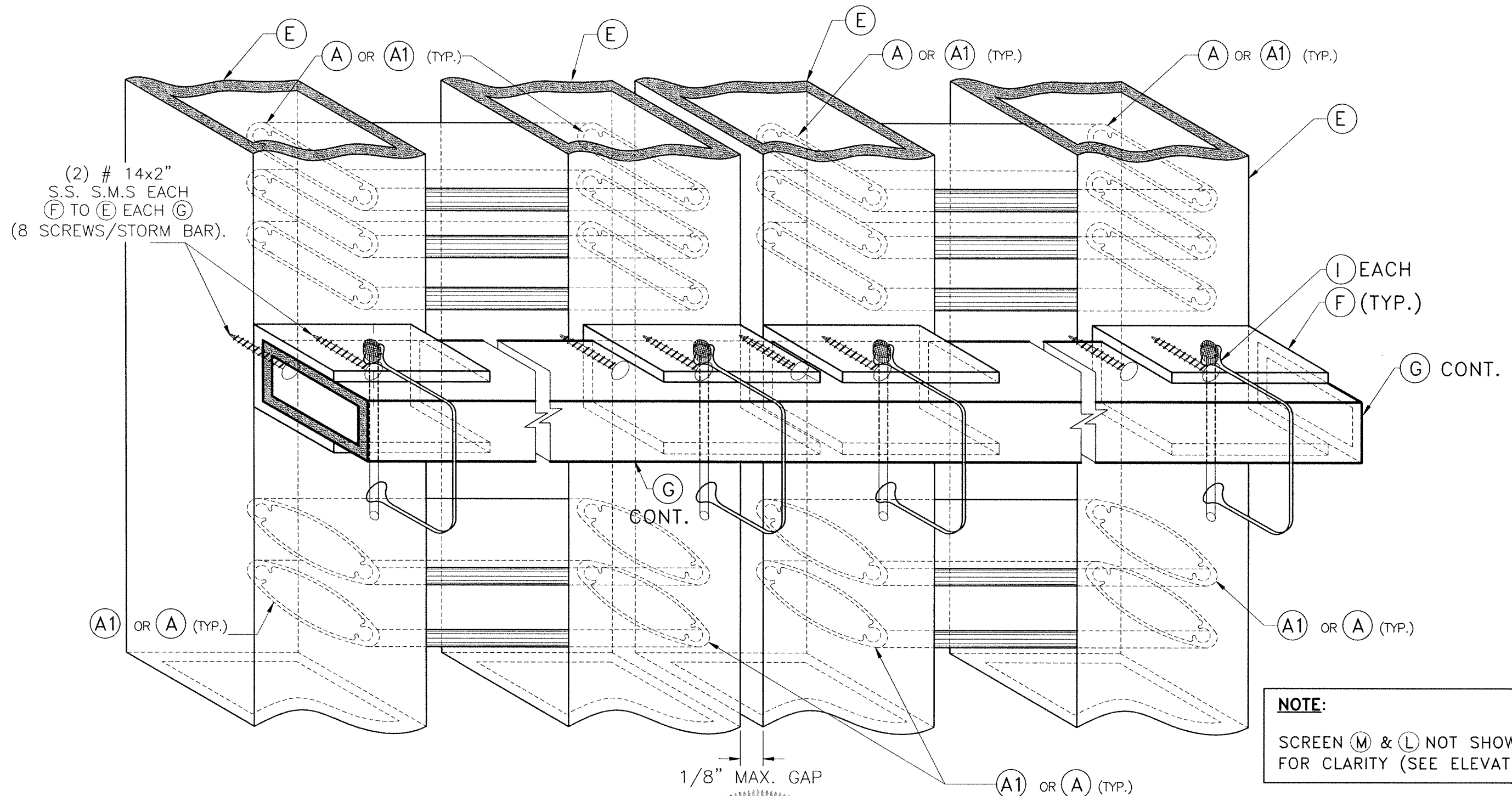
W.H.
DRAWN BY:

6/29/2026
DATE:

26-097

DRAWING No:

SHEET 6 OF 14



DETAIL 1 (ISOMETRIC): EXTERIOR VIEW

N.T.S

No. 44167

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

WALTER A. TILLIT Jr., P.E.

FLORIDA Lic. # 44167

P.E. SEAL/SIGNATURE/DATE

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TILTECO INC.

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

FLORIDA BUILDING CODE (Non High Velocity Hurricane Zone)

ASSA / BERTHA H.V. COLONIAL SHUTTER
(LARGE & SMALL MISSILE)

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:

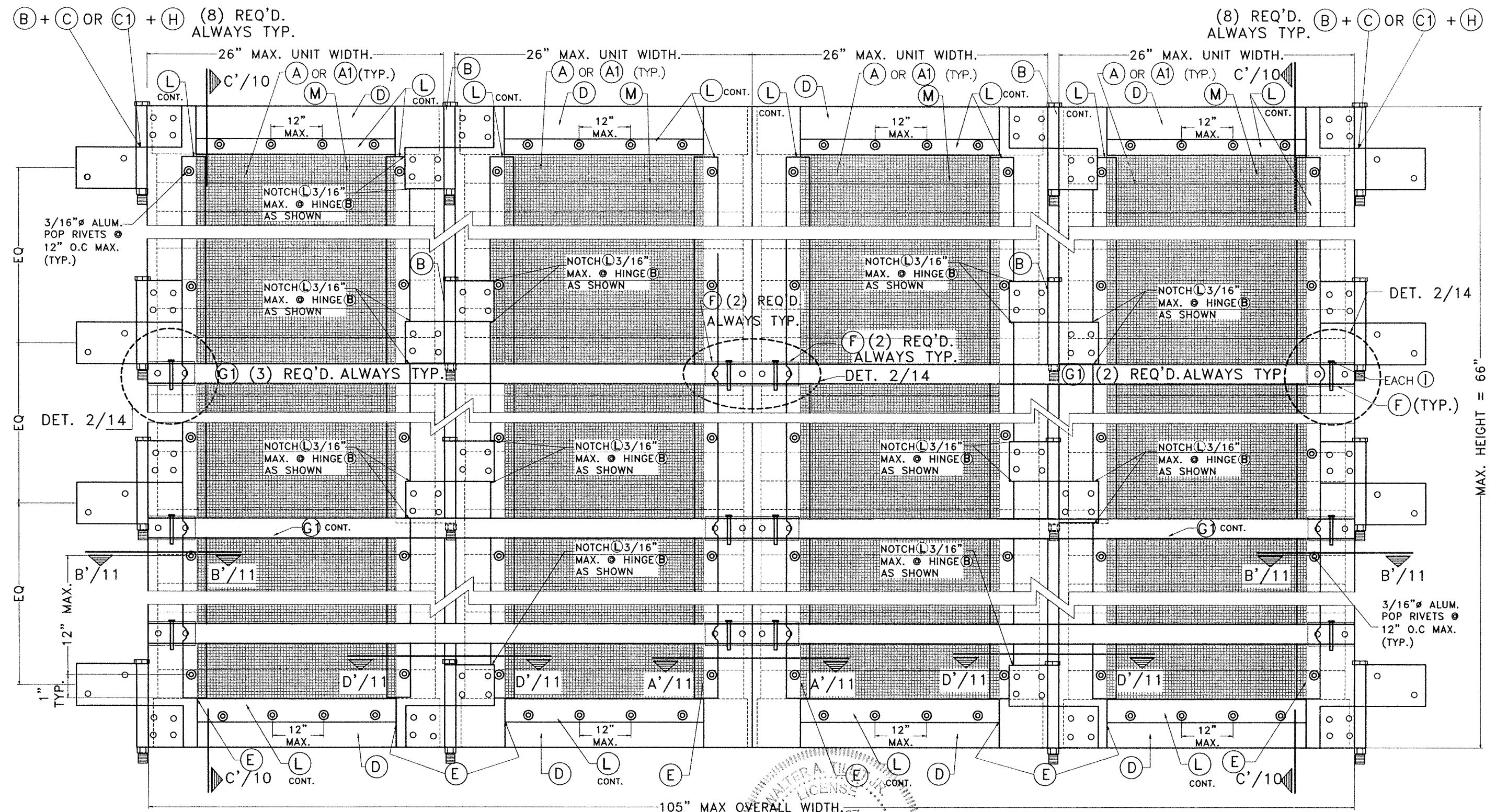
6/29/2026
DATE:

26-097

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1	OLD 23-134	6/29/26	3		
2			4		

SHEET 8 OF 14



**TYPICAL EXTERIOR ELEV. QUADRUPLE PANEL
(HURRICANE POSITION)**

N.T.S.

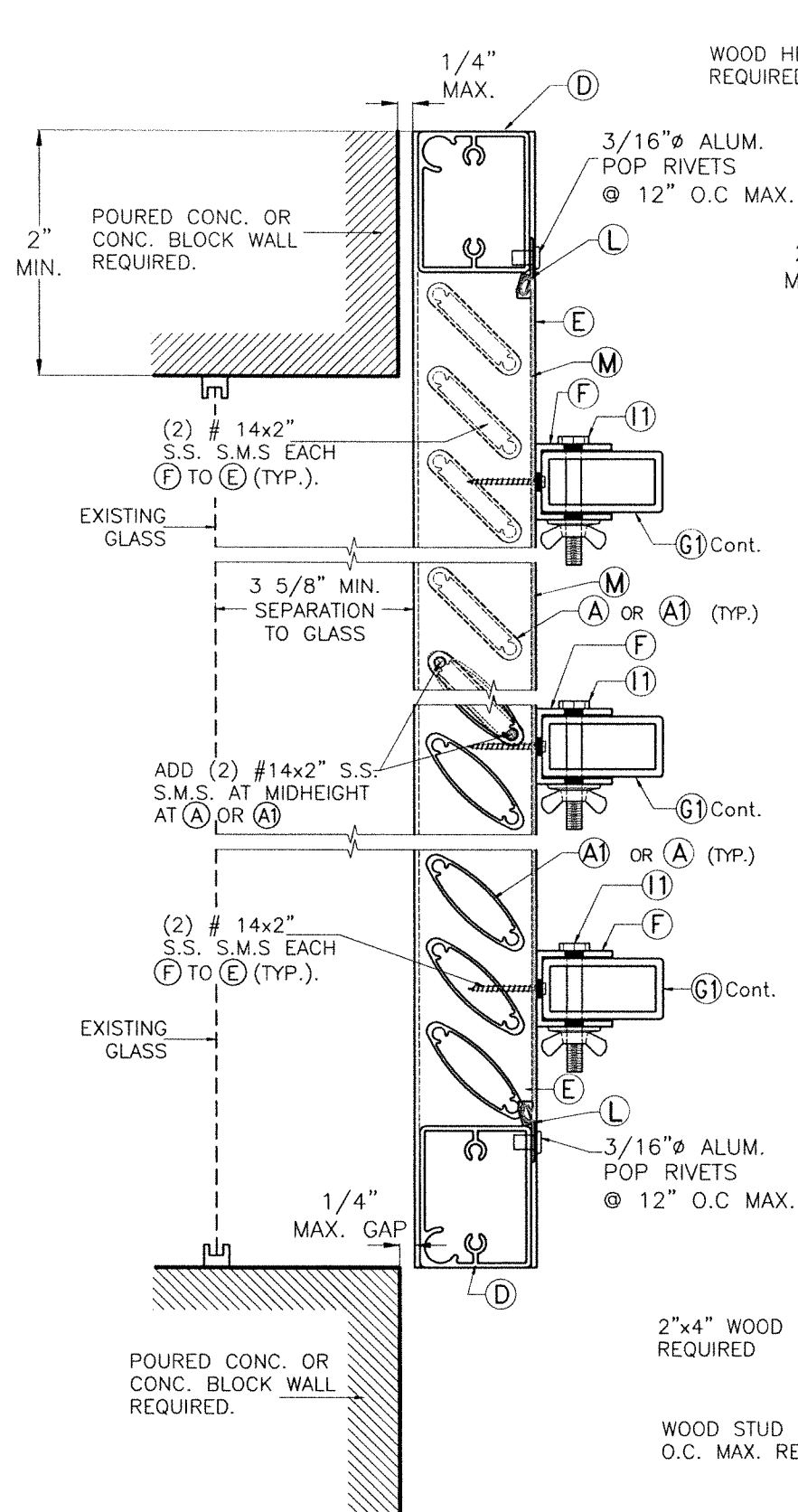
- MAXIMUM A.S.D. DESIGN PRESSURE RATING: +45,-45 PSF FOR CONCRETE OR CONCRETE BLOCK WALL.
- MAXIMUM A.S.D. DESIGN PRESSURE RATING: +40,-45 PSF FOR WOOD.

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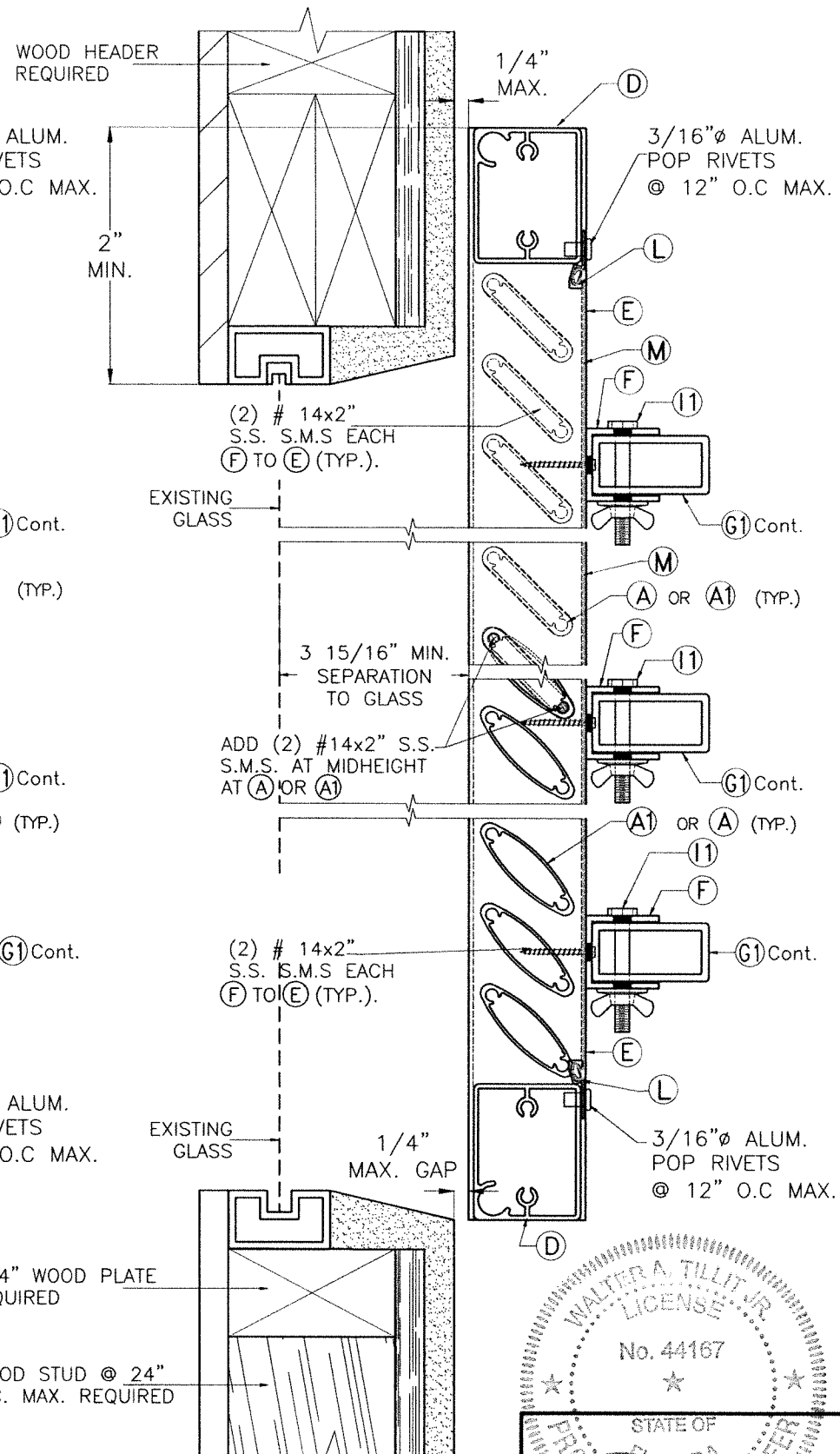
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AMERICAN SHUTTER SYSTEMS ASSOC., INC.			6/29/2026 DATE:		
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SECTION C-C
(WALL MOUNT)
HURRICANE POSITION
SCALE: 1/4" = 1"



SECTION C-C
(WALL MOUNT)
HURRICANE POSITION
SCALE: 1/4" = 1"

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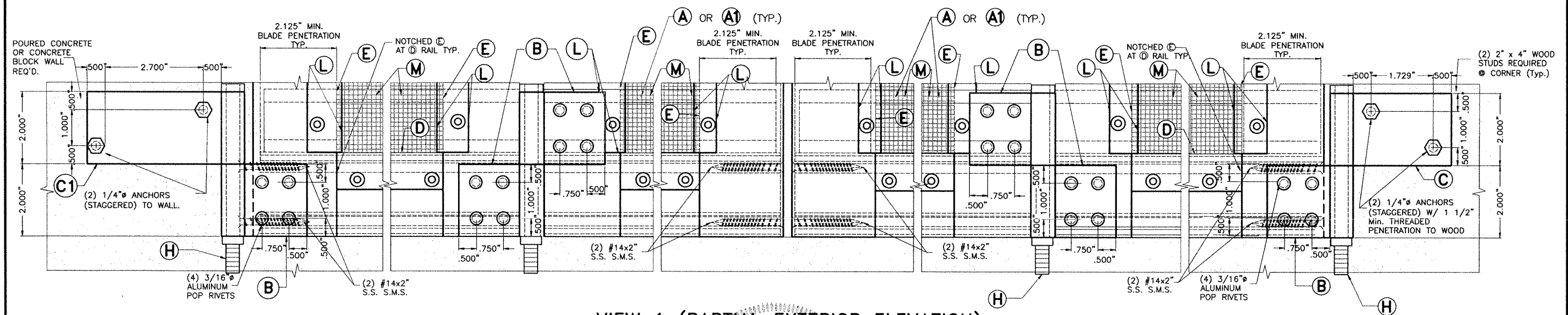
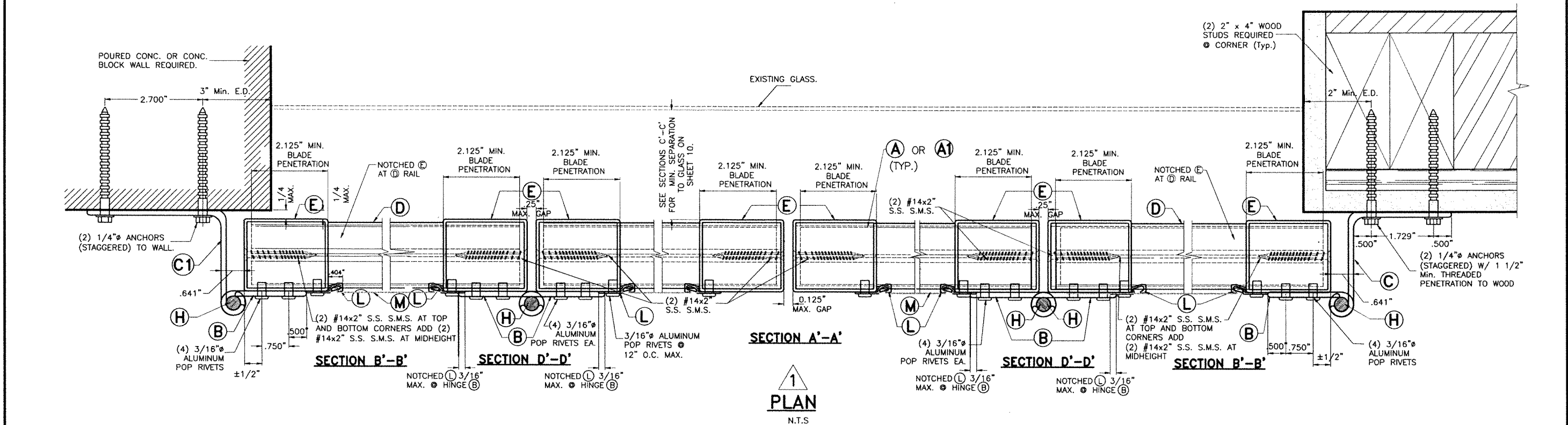
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VIEW 1 (PARTIAL EXTERIOR ELEVATION)

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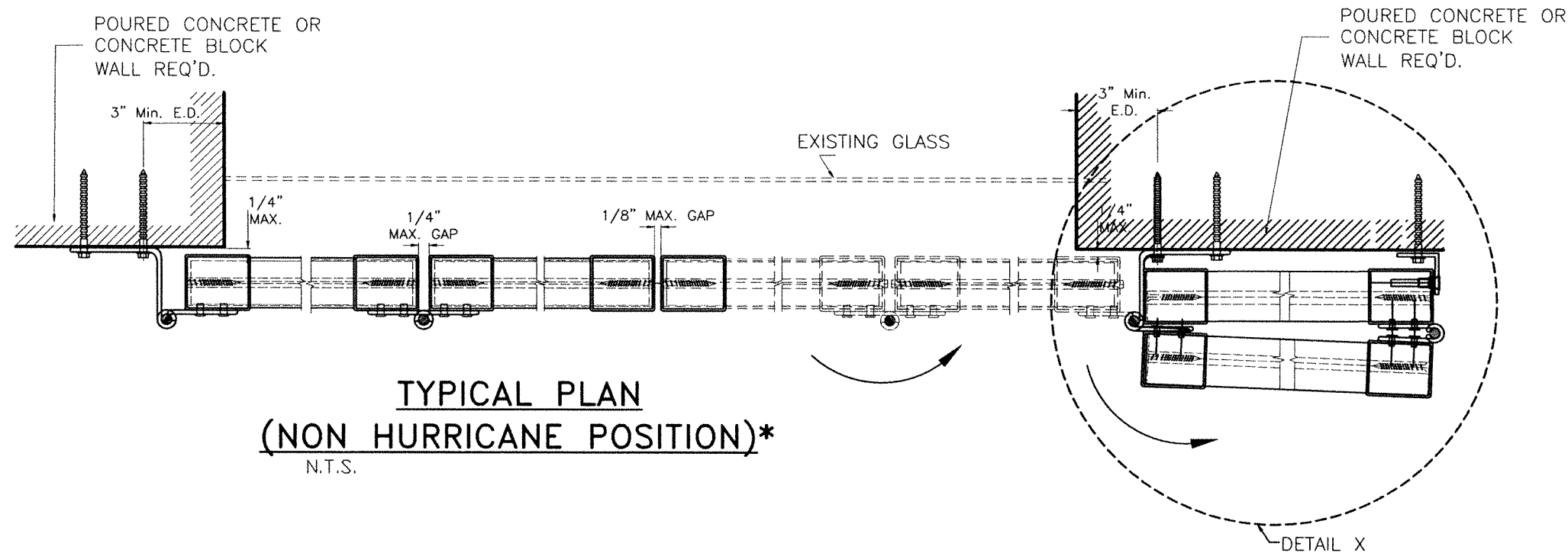
No. 44167

STATE OF FLORIDA

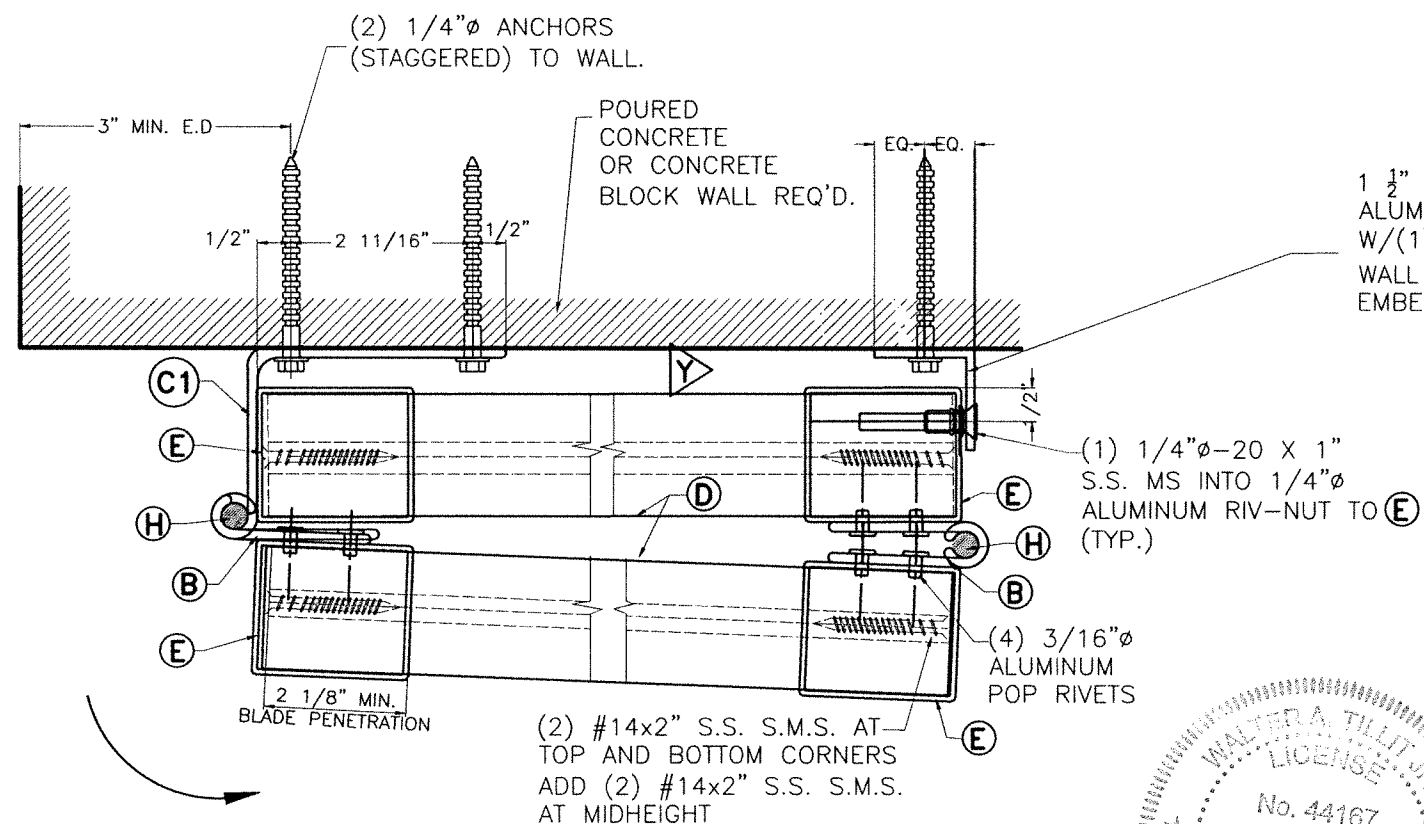
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2/29/06

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**TYPICAL PLAN
(NON HURRICANE POSITION)***
N.T.S.

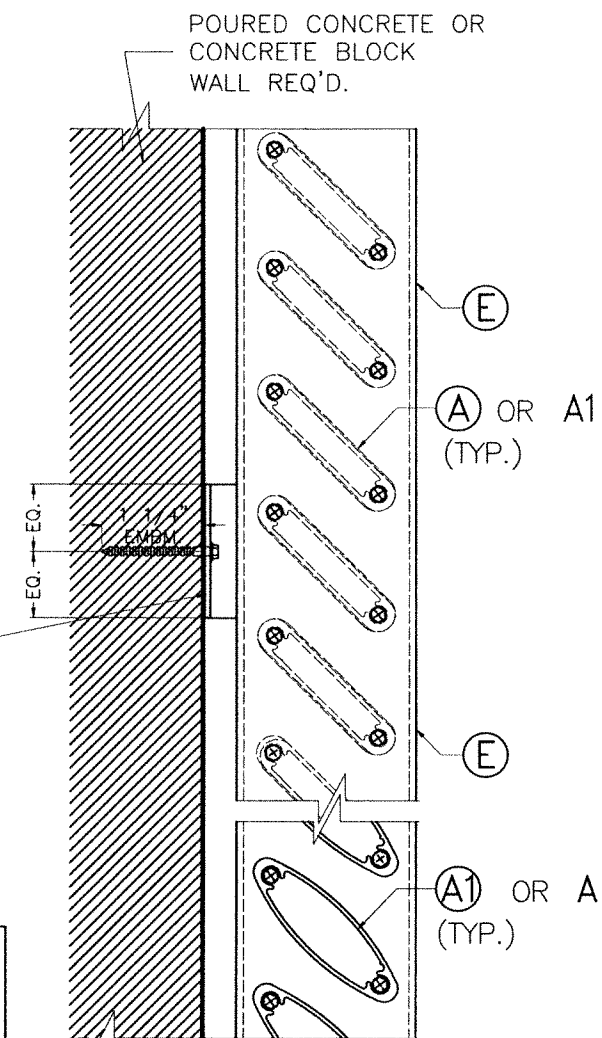


**DETAIL "X"
(NON HURRICANE POSITION)**
SCALE: 3/8"=1"

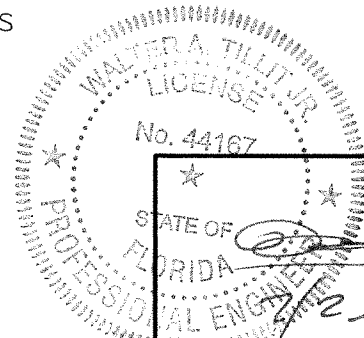
1 1/2" X 1 1/2" X 1/8" X 0'-2"
ALUMINUM L EA. STORM BAR
W/(1) 1/4"Ø ANCHOR TO
WALL W/ 1 1/4" MIN.
EMBEDMENT

***NOTE:**

SCREEN (M) & (L) NOT SHOWN FOR CLARITY
(SEE ELEVATIONS).



ELEVATION Y-Y
SCALE: 1/2"=1"



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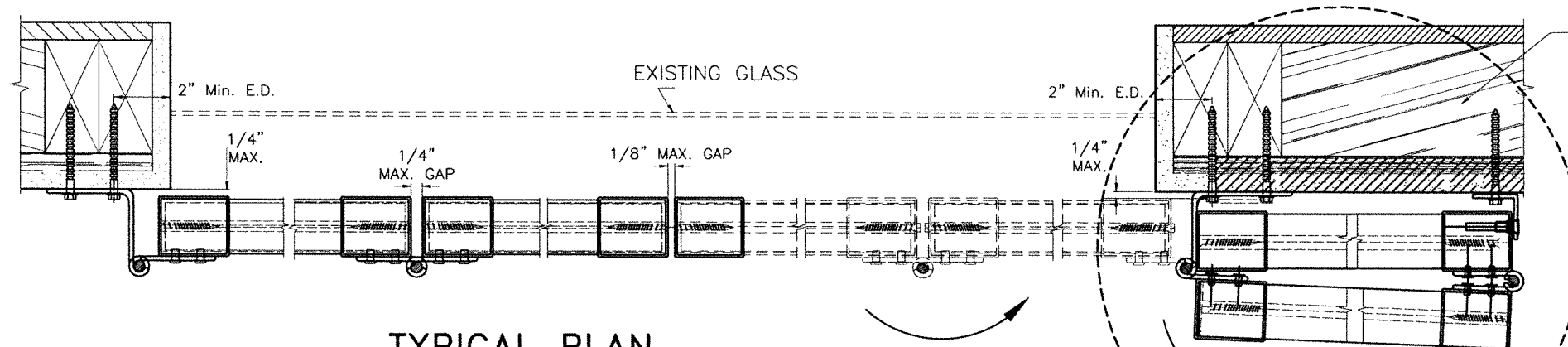
6/29/2026
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26-097

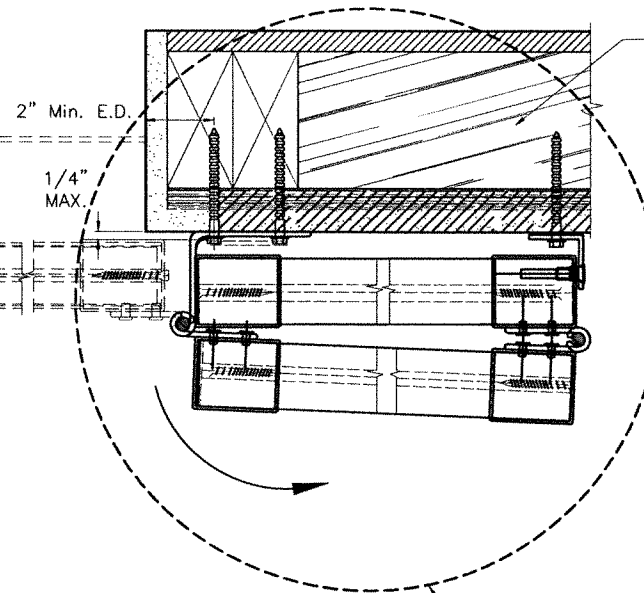
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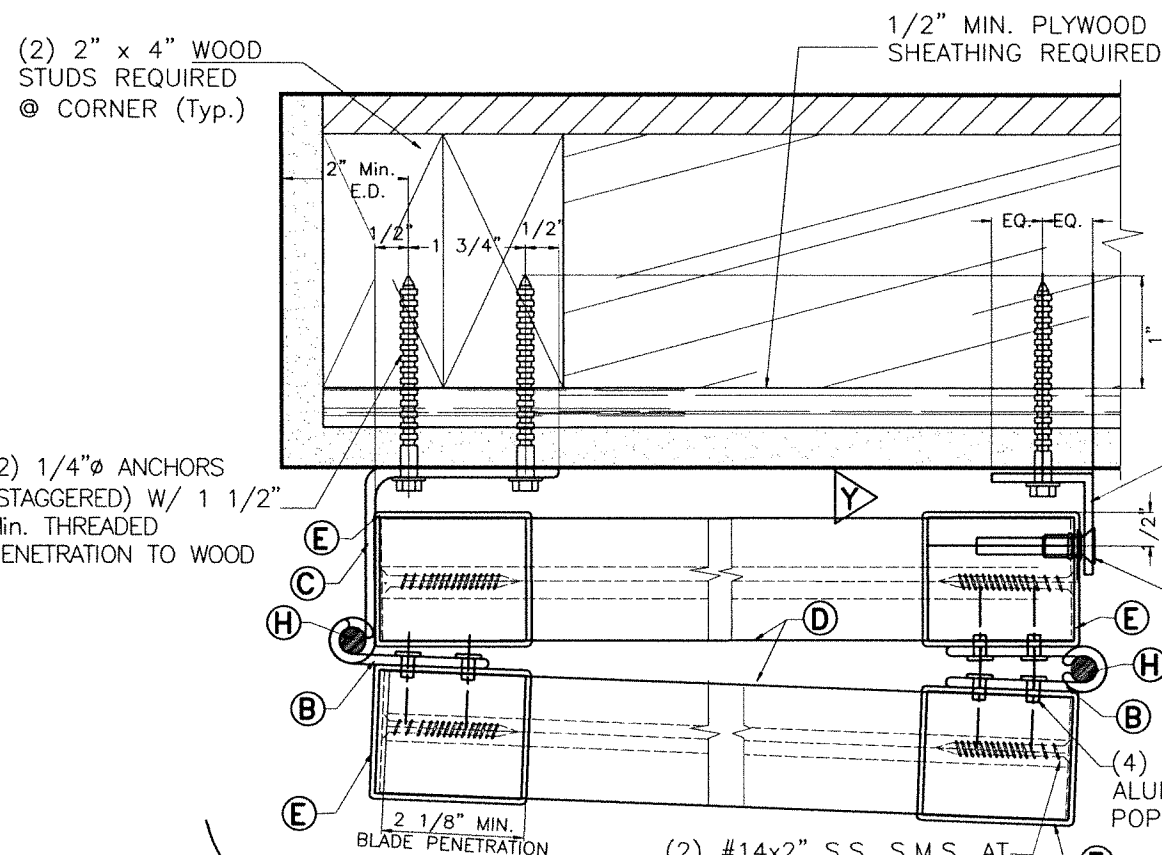
TYPICAL PLAN
(NON HURRICANE POSITION)*
N.T.S.



DETAIL X

WOOD HEADER, WOOD
PLATES, WOOD STUDS
OR 1/2" (MIN.)
PLYWOOD SHEATHING
REQUIRED

WOOD HEADER, WOOD
PLATES, WOOD STUDS
OR 1/2" (MIN.)
PLYWOOD SHEATHING
REQUIRED



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

***NOTE:**

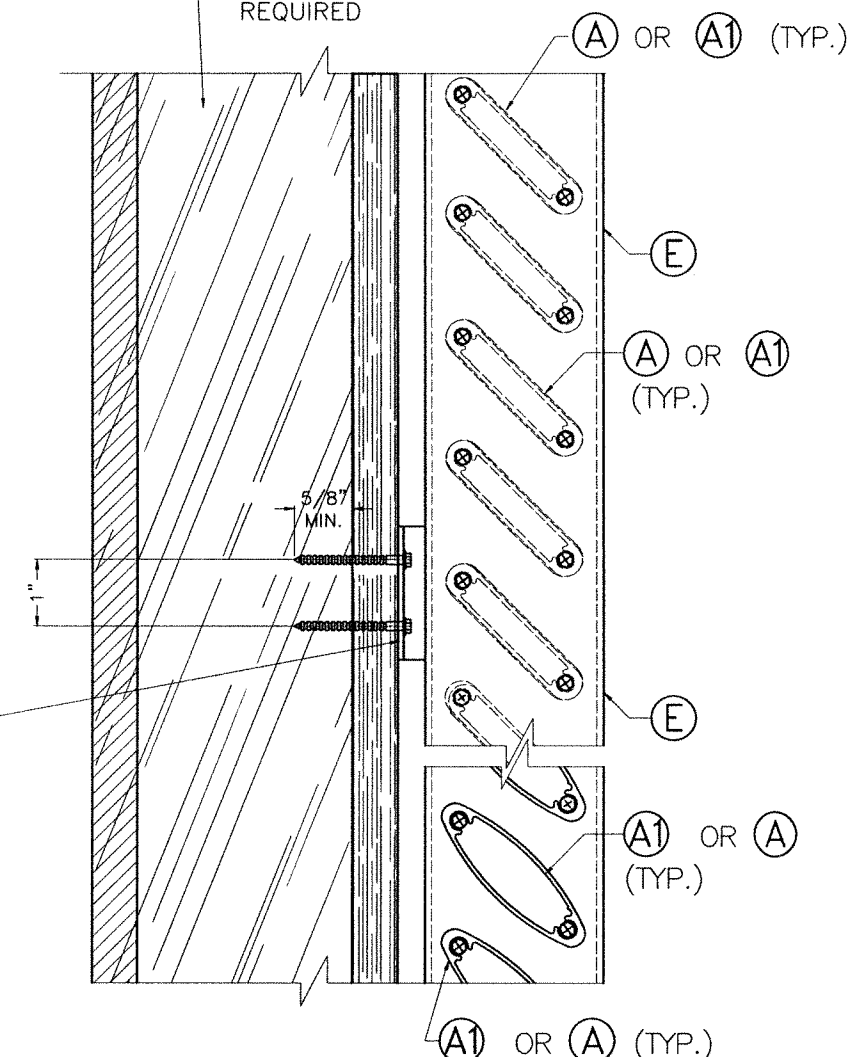
SCREEN (M) & (L) NOT SHOWN FOR CLARITY
(SEE ELEVATIONS).

1 1/2" X 1 1/2" X 1/8" X 0'-2"
ALUMINUM L EA. STORM BAR
W/(2) 1/4"Ø ANCHOR TO
WALL @ 1" O.C. W/
5/8 MIN. PENETRATION
BEYOND PLYWOOD.

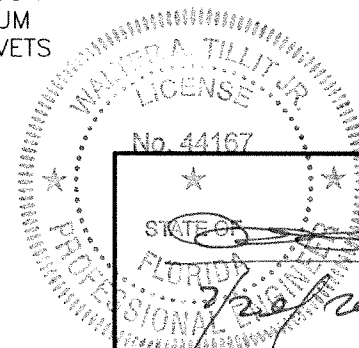
(1) 1/4"Ø-20 X 1"
S.S. MS INTO 1/2 Ø
ALUMINUM RIV-NUT TO (E)
(TYP.)

(4) 3/16"Ø
ALUMINUM
POP RIVETS

(2) #14x2" S.S. S.M.S. AT
TOP AND BOTTOM CORNERS
ADD (2) #14x2" S.S. S.M.S.
AT MIDHEIGHT



ELEVATION Y-Y
SCALE: 1/2"=1"



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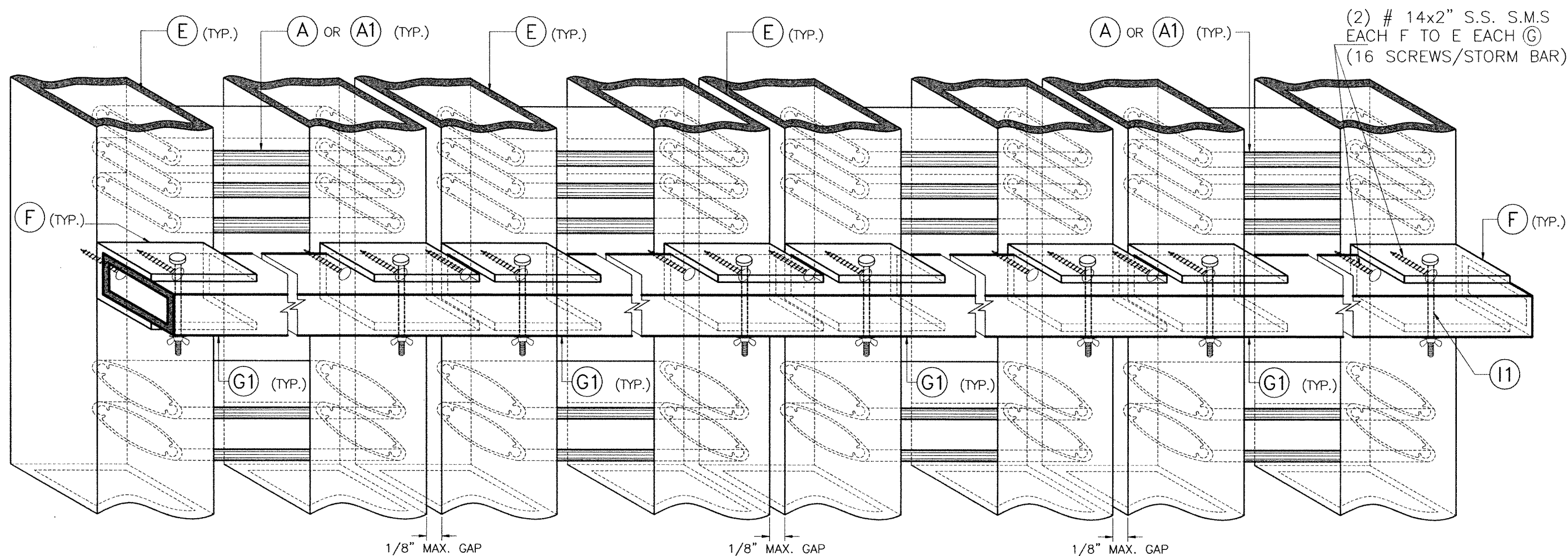
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DETAIL 1 (ISOMETRIC): EXTERIOR VIEW

N.T.S

NOTE:

SCREEN (M) & (L) NOT SHOWN FOR CLARITY (SEE ELEVATIONS).



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