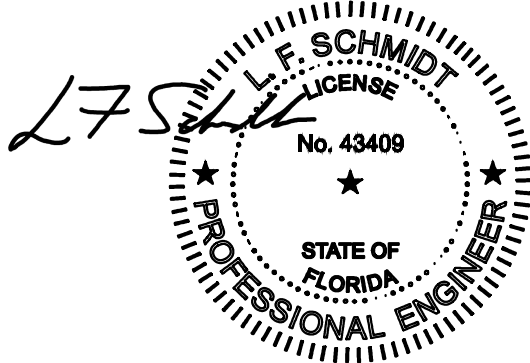




This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

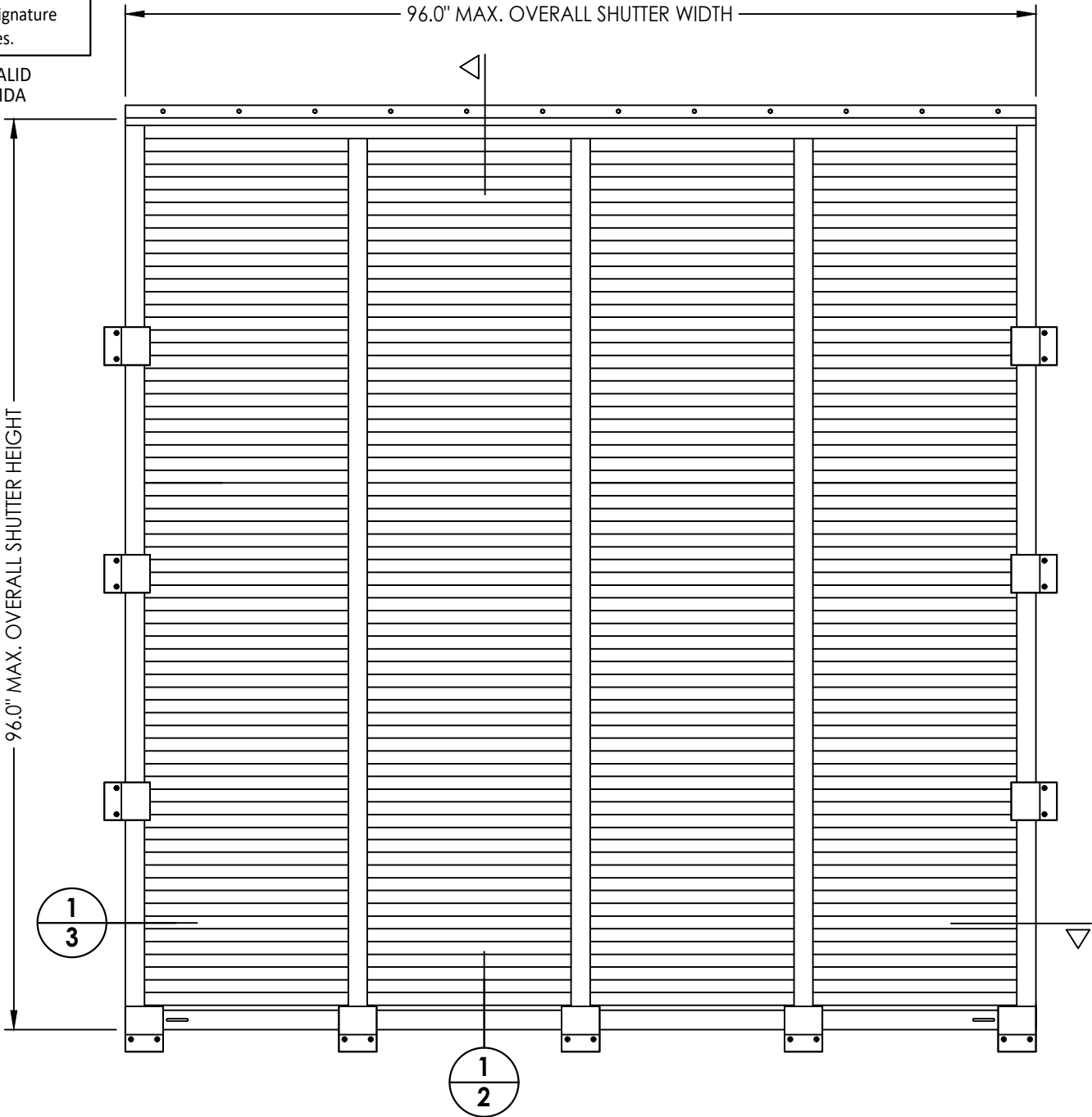
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

EXTRUDED ALUMINUM BAHAMA HURRICANE SHUTTER "IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3. When used in the "High Velocity Hurricane Zone" this product complies with FBC Section 1626 and does not require an impact resistant covering.
4. When used in areas outside of the "HVHZ" requiring wind borne debris protection this product complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. Aluminum shutter material shall be 6063-T6.
7. The Engineer or Architect of Record is responsible for determining the wind loads for any specific application and to determine that the existing structure is capable of withstanding the loads imposed by the shutter system.

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Vertical cross sections masonry & stud construction
3	Horizontal cross sections masonry & stud construction
4	Anchoring locations 2x stud installation
5	Anchoring locations masonry installation
6	Bill of materials & components



MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
96.0" x 96.0"	+50.0	-55.0

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT:
EXTRUDED ALUMINUM
BAHAMA HURRICANE SHUTTER

PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

DATE: 08/31/23

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.: FL-42399.2

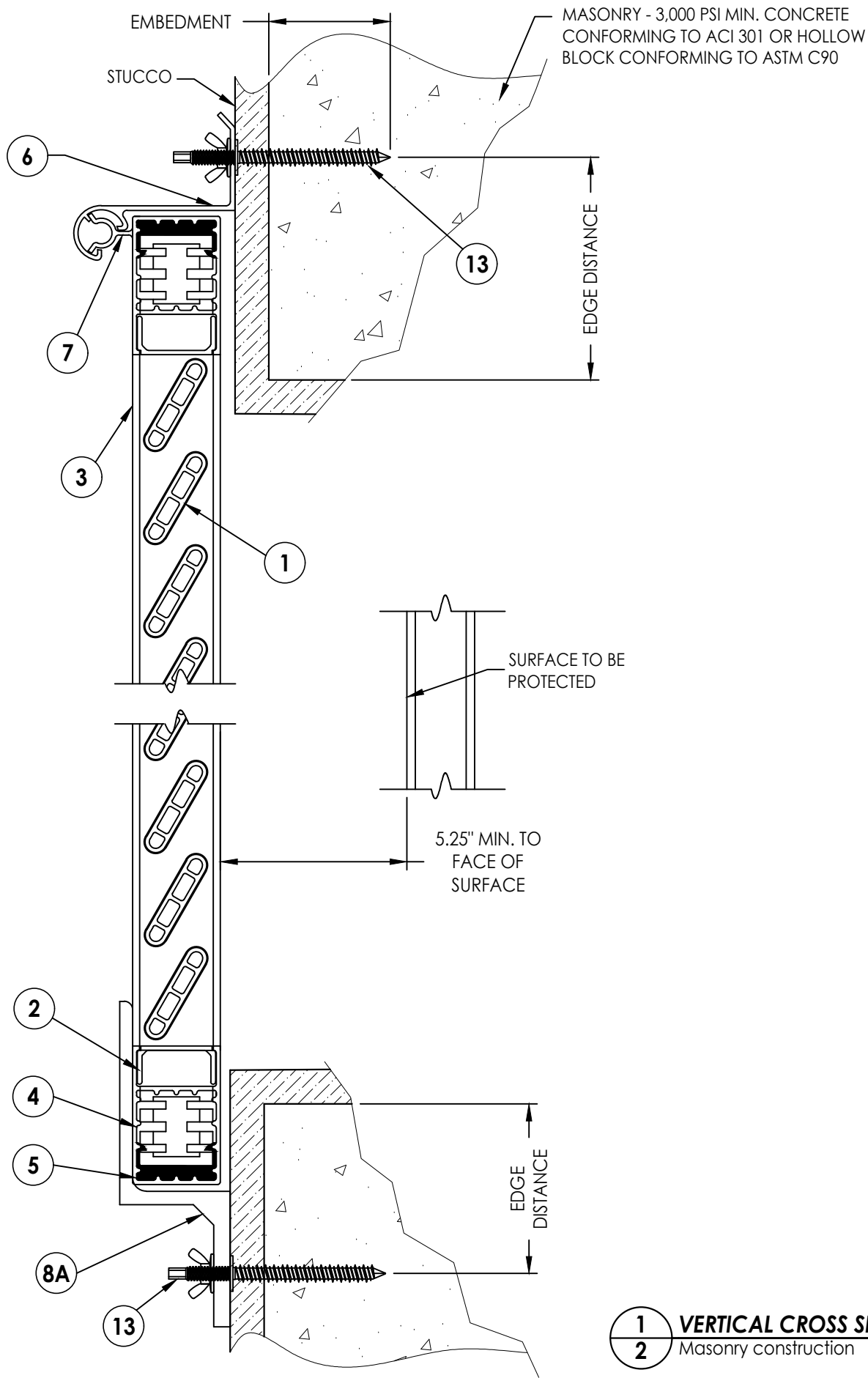
SHEET 1 OF 6

RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

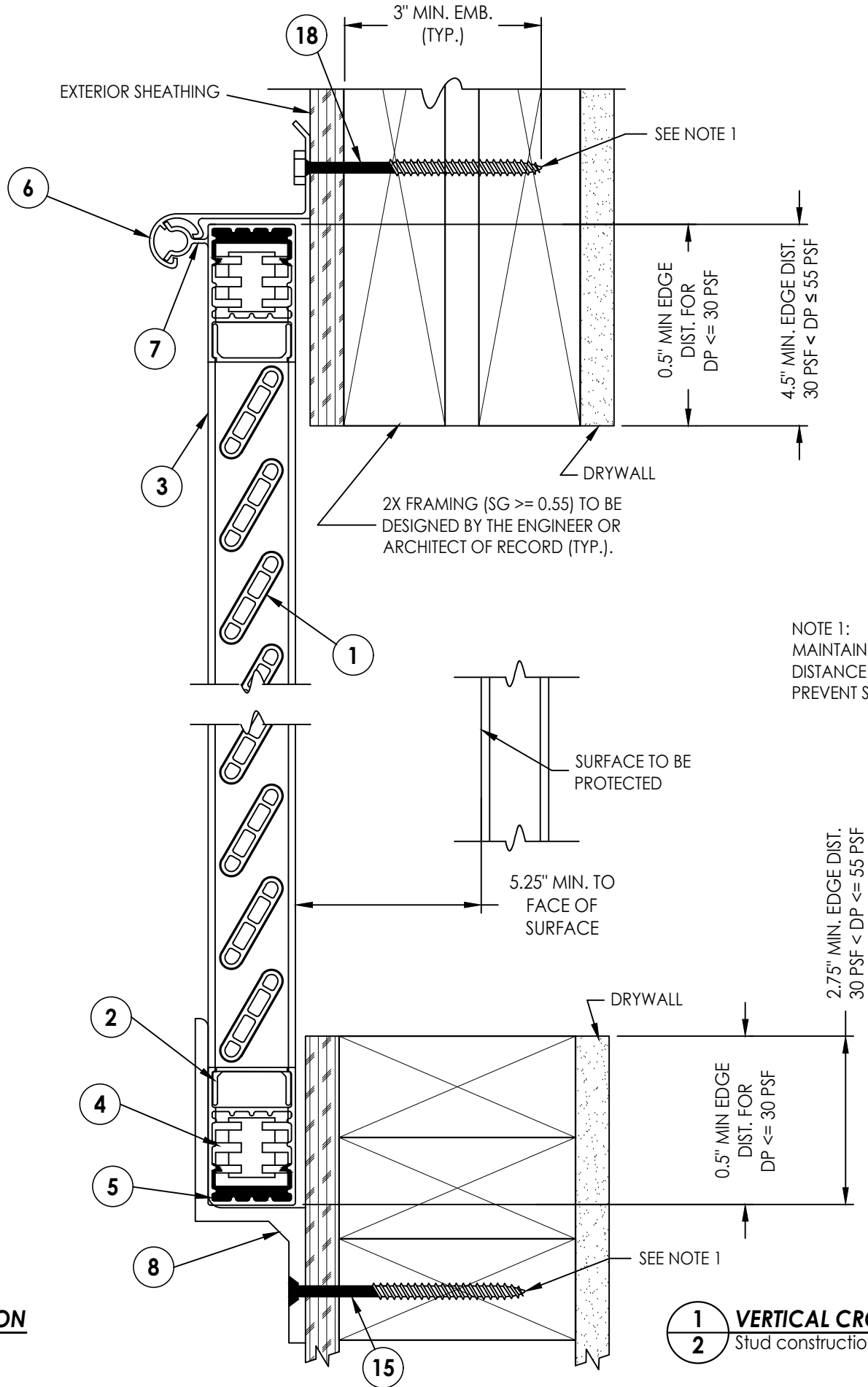
REVISIONS

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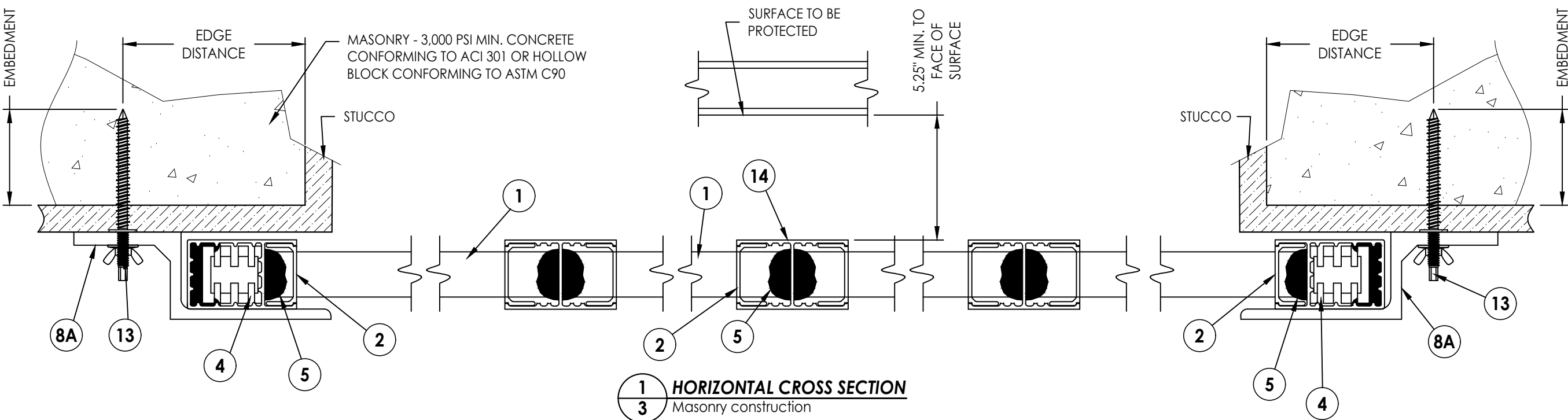
1 VERTICAL CROSS SECTION
2 Masonry construction



1 VERTICAL CROSS SECTION
2 Stud construction

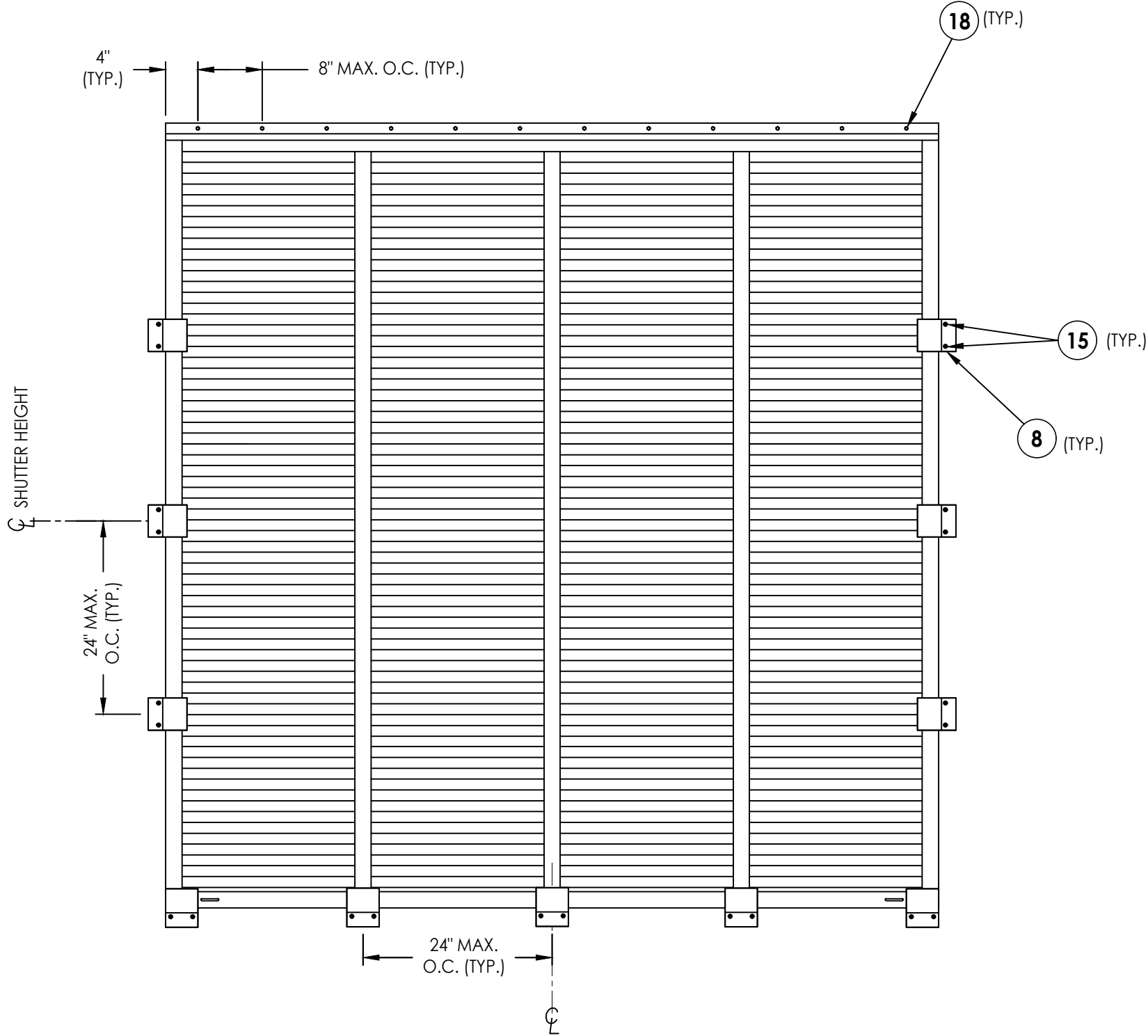
NOTE 1:
MAINTAIN 1/2" MIN. EDGE
DISTANCE TO EDGE OF STUD TO
PREVENT SPLITTING OF WOOD.

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: EXTRUDED ALUMINUM BAHAMA HURRICANE SHUTTER				PART OR ASSEMBLY: VERTICAL CROSS SECTIONS MASONRY & STUD CONSTRUCTION			
			</				



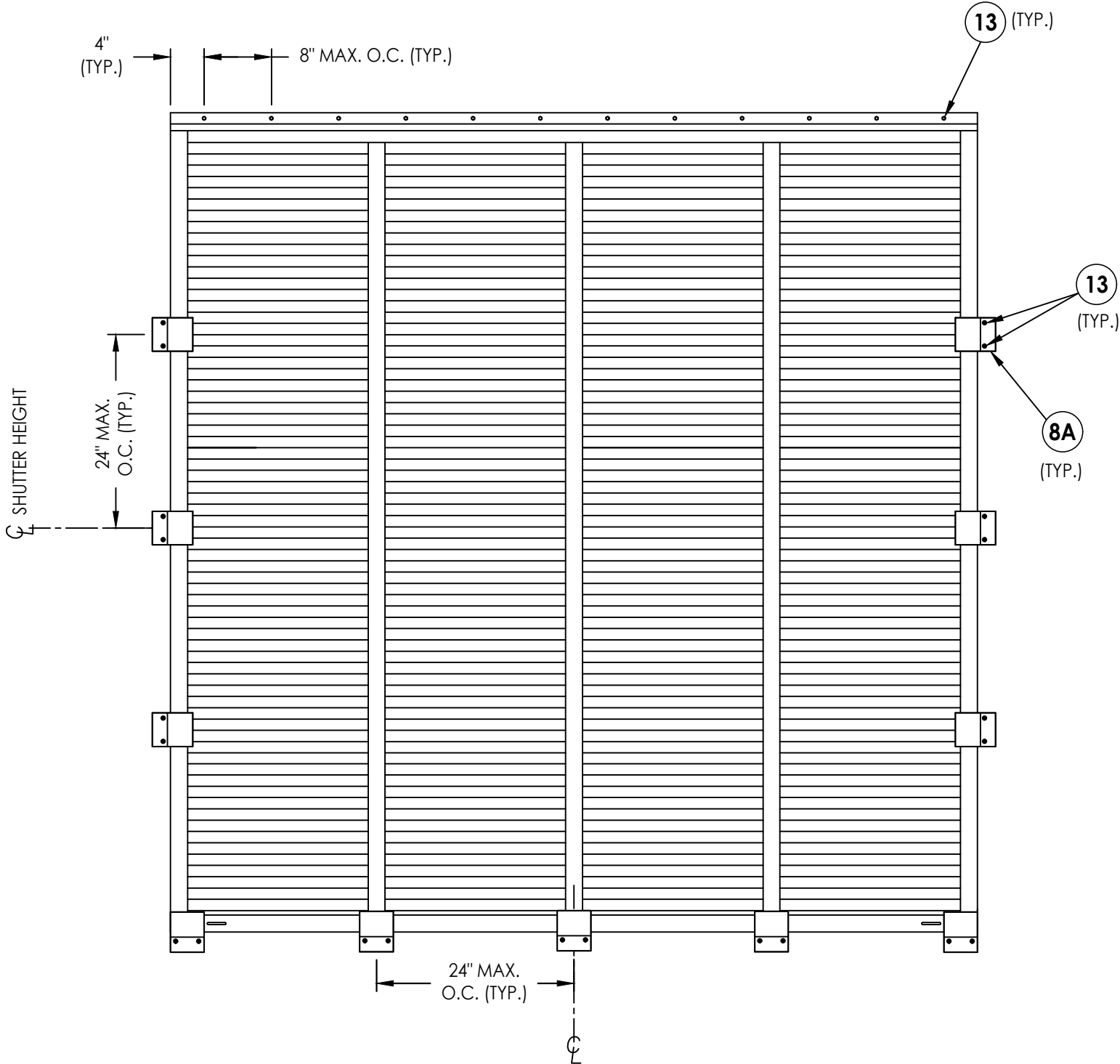
DATE:	8/31/23
SCALE:	N.T.S.
DWG. BY:	RW
CHK. BY:	LFS
DRAWING NO.:	FL-42399.2
SHEET	3 OF 6

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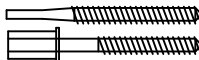
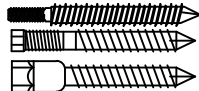
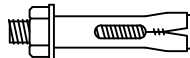
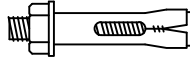
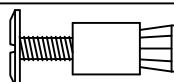
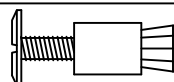
ANCHORING STUD CONSTRUCTION

DATE: 8/31/23		PRODUCT:		Documents Prepared By:	
SCALE: N.T.S.		EXTRUDED ALUMINUM		Lyndon F. Schmidt	
DWG. BY: RW		BAHAMA HURRICANE SHUTTER		P.E. No. 43409	
CHK. BY: LFS		PART OR ASSEMBLY:		<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
DRAWING NO.: FL-42399.2		ANCHORING LOCATIONS 2X STUD INSTALLATION			
SHEET 4 OF 6		NO.		DATE	
				BY	
				</	



ANCHORING MASONRY CONSTRUCTION

13 MASONRY ANCHOR SCHEDULE

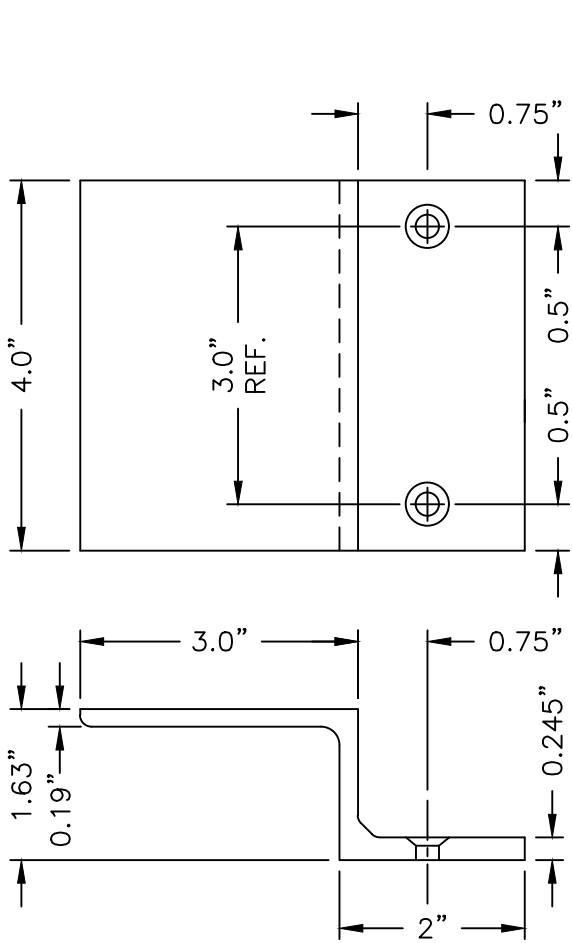
CONCRETE CONFORMING TO ACI 301	HOLLOW BLOCK CONFORMING TO ASTM C90
ANCHOR  1/4" TAPCON SG EM = 1.75" CL = 4" ED = 1.25" (3,295 PSI MIN. CONC.)	ANCHOR  1/4" ELCO/DeWALT PANELMATE MALE/FEMALE EM = 1.25" CL = 4" ED = 3"
 1/4"Ø ITW RED HEAD DYNABOLT SLEEVE ANCHOR EM = 1.125" CL = 4" ED = 1.5" (3000 PSI MIN. CONC.)	 1/4"Ø ITW RED HEAD DYNABOLT SLEEVE ANCHOR EM = 1.125" CL = 4" ED = 1.5"
 1/4" ALL POINTS SOLID-SET ANCHOR EM = 0.875" CL = 4" ED = 2" (3,000 PSI MIN. CONC.)	 1/4" ALL POINTS SOLID-SET ANCHOR EM = 0.875" CL = 4" ED = 2"
 1/4" ITW TAPCON EM = 1.75" CL = 4" ED = 4" (3,000 PSI MIN. CONC.)	

EM = MINIMUM EMBEDMENT (PENETRATION)
CL = MINIMUM CENTER TO CENTER ANCHOR SPACING
ED = MINIMUM EDGE DISTANCE

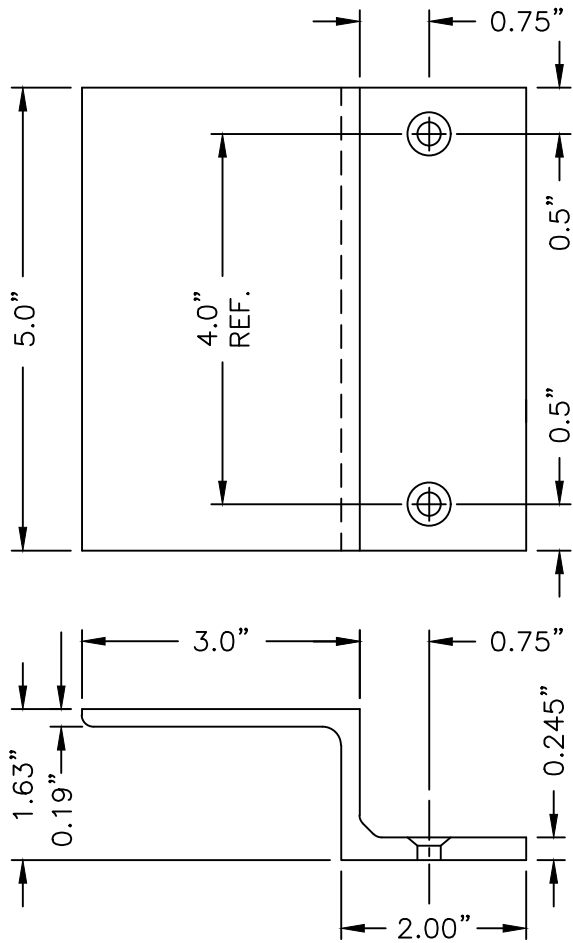
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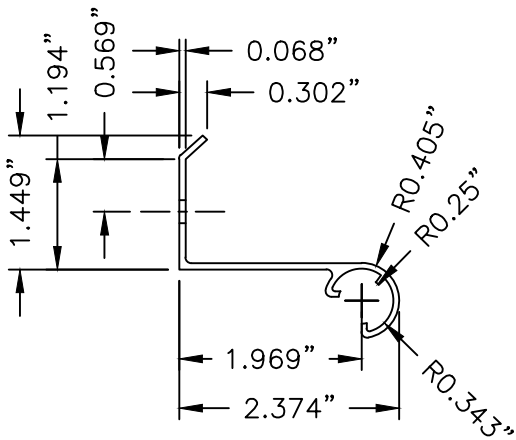
BILL OF MATERIALS		
1	LOUVER 6063-T6 0.060"	ALUM.
2	LOUVER/INSERT 6063-T6 0.060"	ALUM.
3	STILE/RAIL 6063-T6 0.060"	ALUM.
4	EXTRUDED NYLON CORNER KEY	ALUM.
5	STRUCTURAL ADHESIVE	-
6	FEMALE HINGE	ALUM.
7	MALE HINGE TOP RAIL	ALUM.
8	MOUNTING BRACKET WOOD	ALUM.
8A	MOUNTING BRACKET MASONRY	ALUM.
8B	MOUNTING BRACKET MASONRY	ALUM.
12	3/16" DIA. POP RIVET	ALUM.
13	ANCHORS - SEE MASONRY ANCHOR SCHEDULE	STEEL
14	VERTICAL SUPPORT SLAT	ALUM.
15	#14 X 3-1/2" PFH WOOD SCREW	STEEL
18	1/4" X 4" H.H. LAG SCREW	STEEL



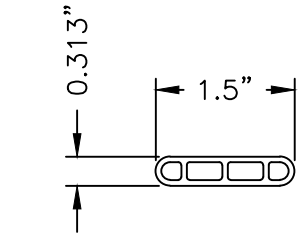
8 MOUNTING BRACKET
ALUMINUM 6063-T6
WOOD FRAME INSTALLATION



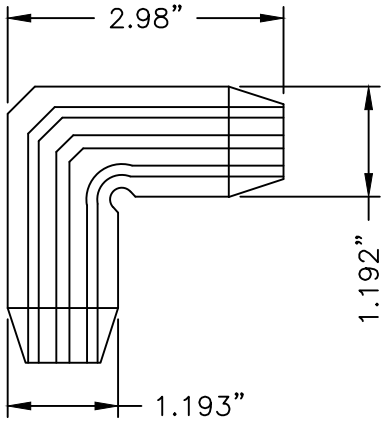
8A MOUNTING BRACKET
ALUMINUM 6063-T6
MASONRY INSTALLATION



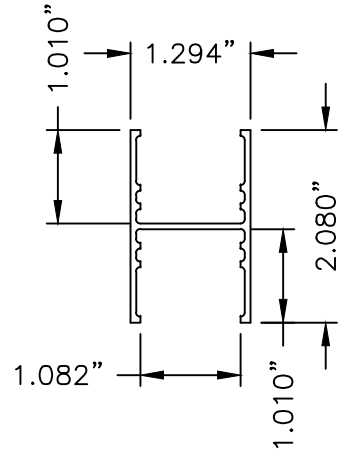
6 FEMALE HINGE
EXTRUDED ALUMINUM
6063-T6



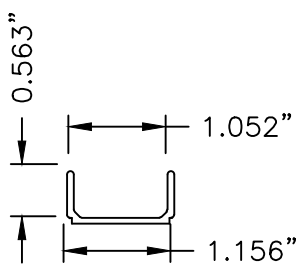
1 LOUVER
EXTRUDED ALUMINUM
6063-T6
0.060" TYP. WALL THK.



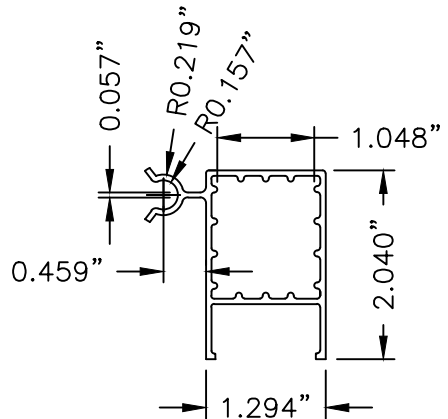
4 EXTRUDED NYLON CORNER KEY



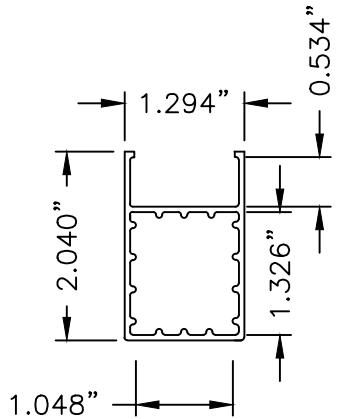
14 VERTICAL SUPPORT SLAT
ALUMINUM 6063-T6
.060" TYP. WALL THK.



2 LOUVER/INSERT
EXTRUDED 6063-T6
0.060" TYP. WALL THK.



7 MALE HINGE TOP RAIL
EXTRUDED ALUMINUM
6063-T6
0.060" TYP. WALL THK.



3 STILE/RAIL
EXTRUDED ALUMINUM
6063-T6
0.060" TYP. WALL THK.

Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

PRODUCT:
EXTRUDED ALUMINUM
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BILL OF MATERIALS
& COMPONENTS

DATE: 8/31/23

SCALE: N.T.S.

DWG. BY: RW

CHK. BY: LFS

DRAWING NO.:
FL-42399.2

SHEET 6 OF 6

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