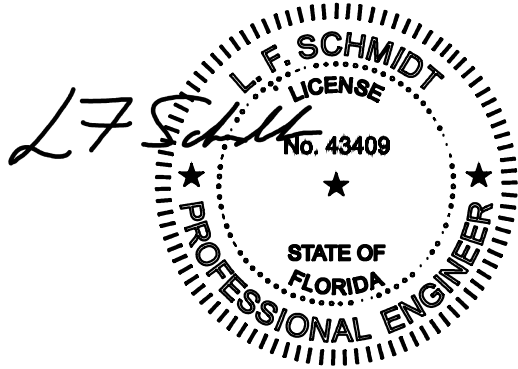




This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

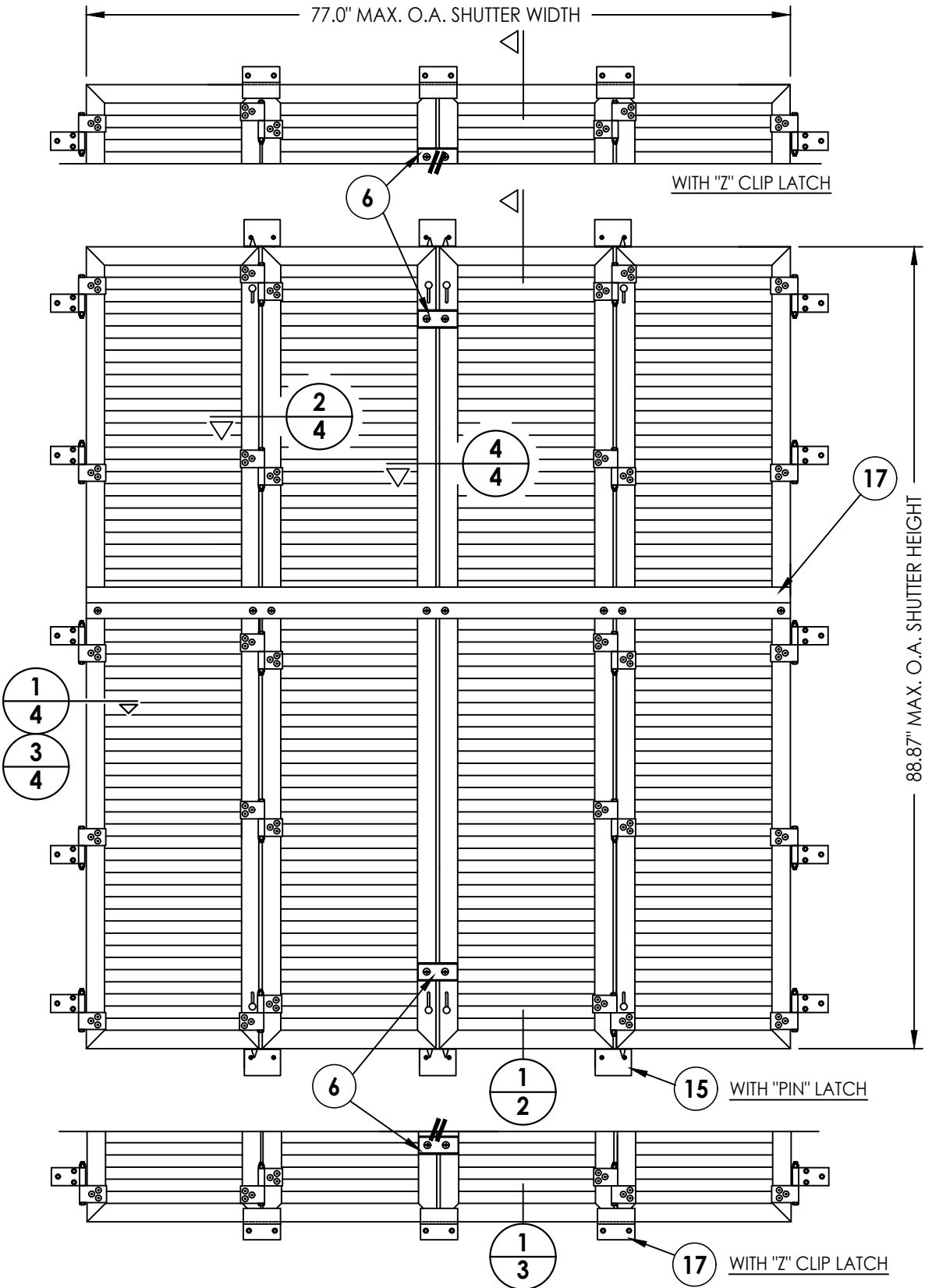
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA

EXTRUDED ALUMINUM COLONIAL 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 excluding 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 areas 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.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. Aluminum shutter material shall be 6063-T6.
6. 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	Vertical cross sections masonry & stud construction
4	Horizontal cross sections masonry & stud construction
5	Anchoring locations masonry and stud installation
6	Anchoring locations masonry and stud installation
7	Bill of materials & components



LATCH TYPE	MAX. FRAME DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
"PIN"	77.0" X 88.87"	+65.0	-65.0
"Z" CLIP	77.0" X 88.87"	+80.0	-90.0

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

DATE: 8/31/23

PRODUCT:
EXTRUDED ALUMINUM
COLONIAL HURRICANE SHUTTER

SCALE: N.T.S.

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

DWG. BY: RW

NO.

DATE

BY

REVISIONS

FL-42400.1

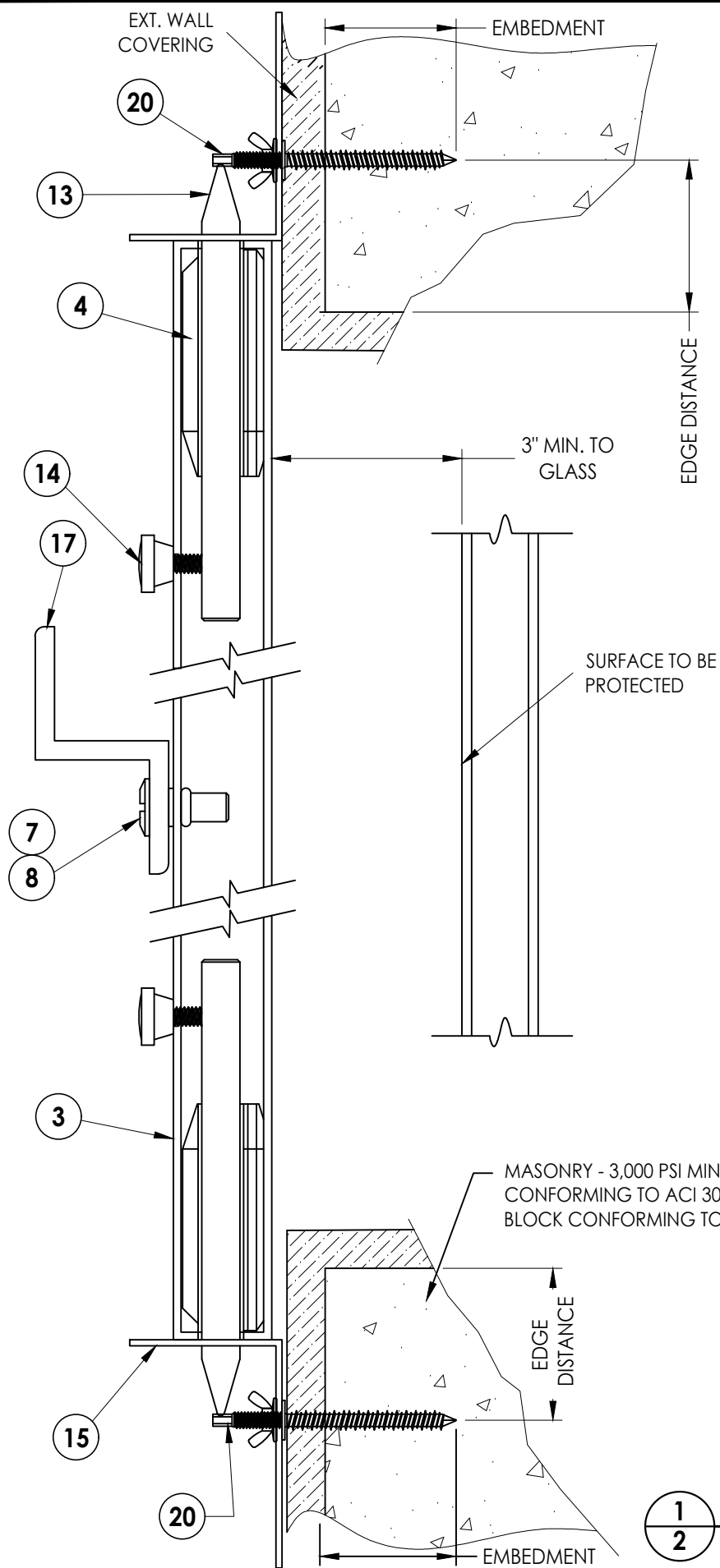
DRAWING NO.:

1 OF 7

SHEET

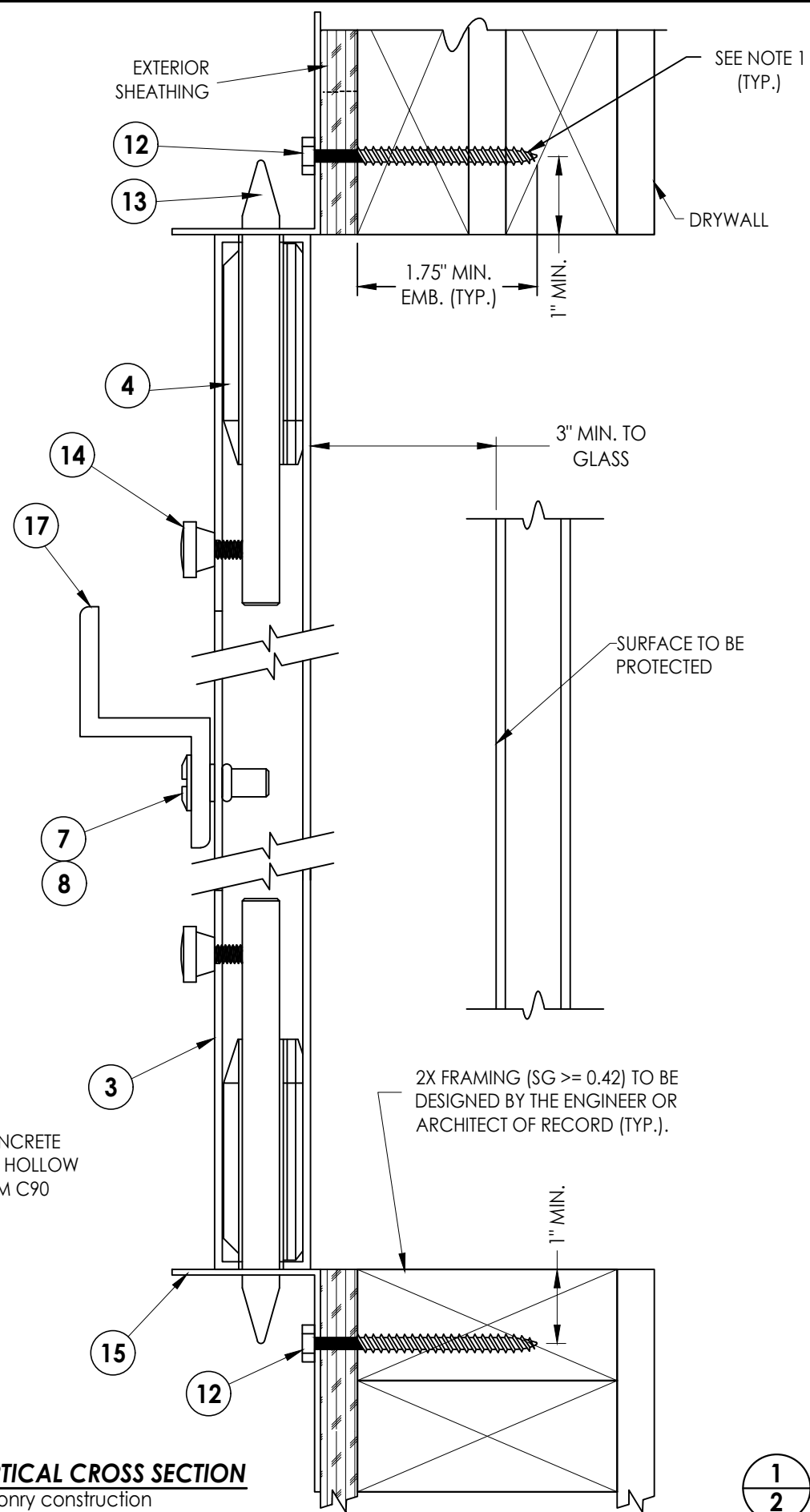
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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1 VERTICAL CROSS SECTION

2 Masonry construction

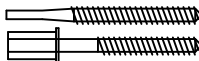
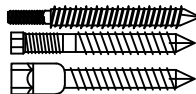
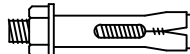
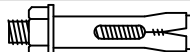
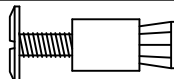
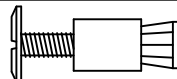


1 VERTICAL CROSS SECTION

2 Stud construction

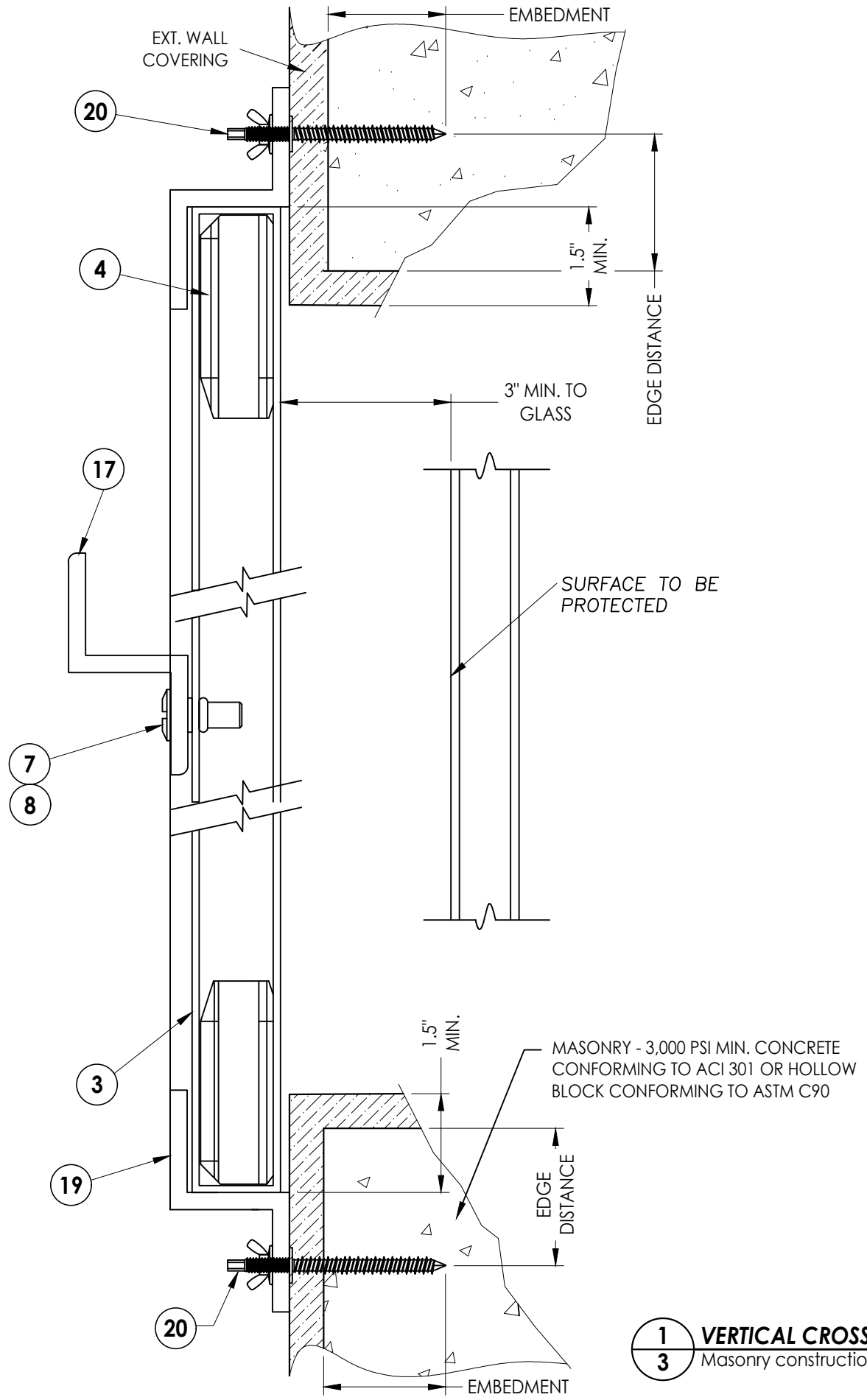
NOTE 1:
MAINTAIN 1/2" MIN. EDGE
DISTANCE TO EDGE OF STUD TO
PREVENT SPLITTING OF WOOD.

20 MASONRY ANCHOR SCHEDULE

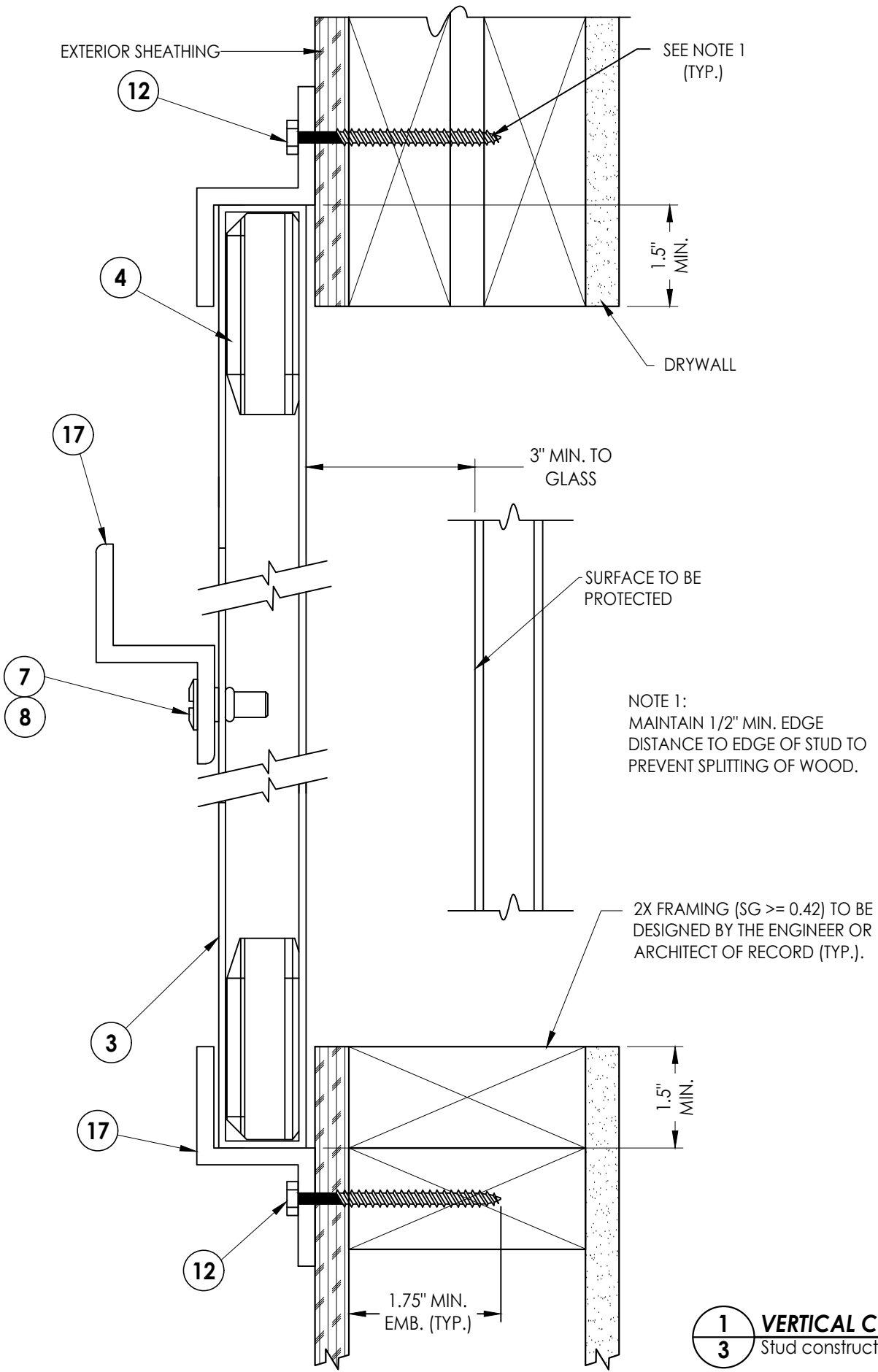
CONCRETE CONFORMING TO ACI 301		HOLLOW BLOCK CONFORMING TO ASTM C90	
ANCHOR  1/4" TAPCON SG EM = 1.75" CL = 3" ED = 1.25" (3,295 PSI MIN. CONC.)		ANCHOR  1/4" ELCO/DeWALT PANELMATE MALE/FEMALE EM = 1.25" CL = 3" ED = 3"	
 1/4"Ø ITW RED HEAD DYNABOLT SLEEVE ANCHOR EM = 1.125" CL = 3" ED = 1.5" (3,000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

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

[illegible]



1 **VERTICAL CROSS SECTION**
3 Masonry construction



1 3 VERTICAL CROSS SECTION

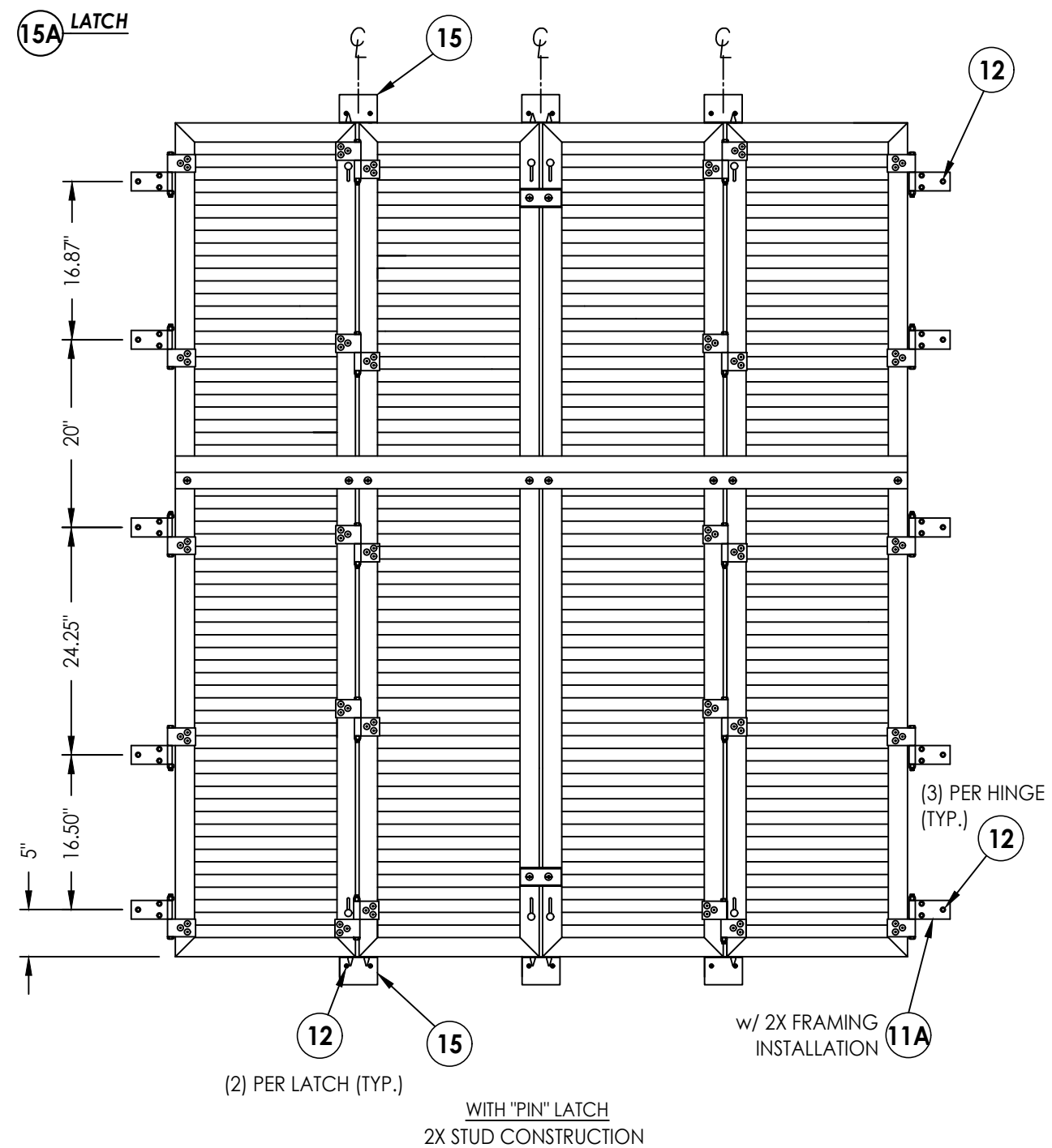
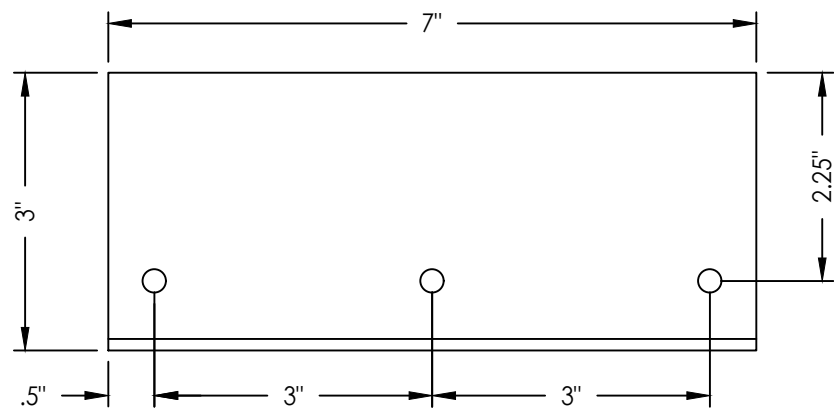
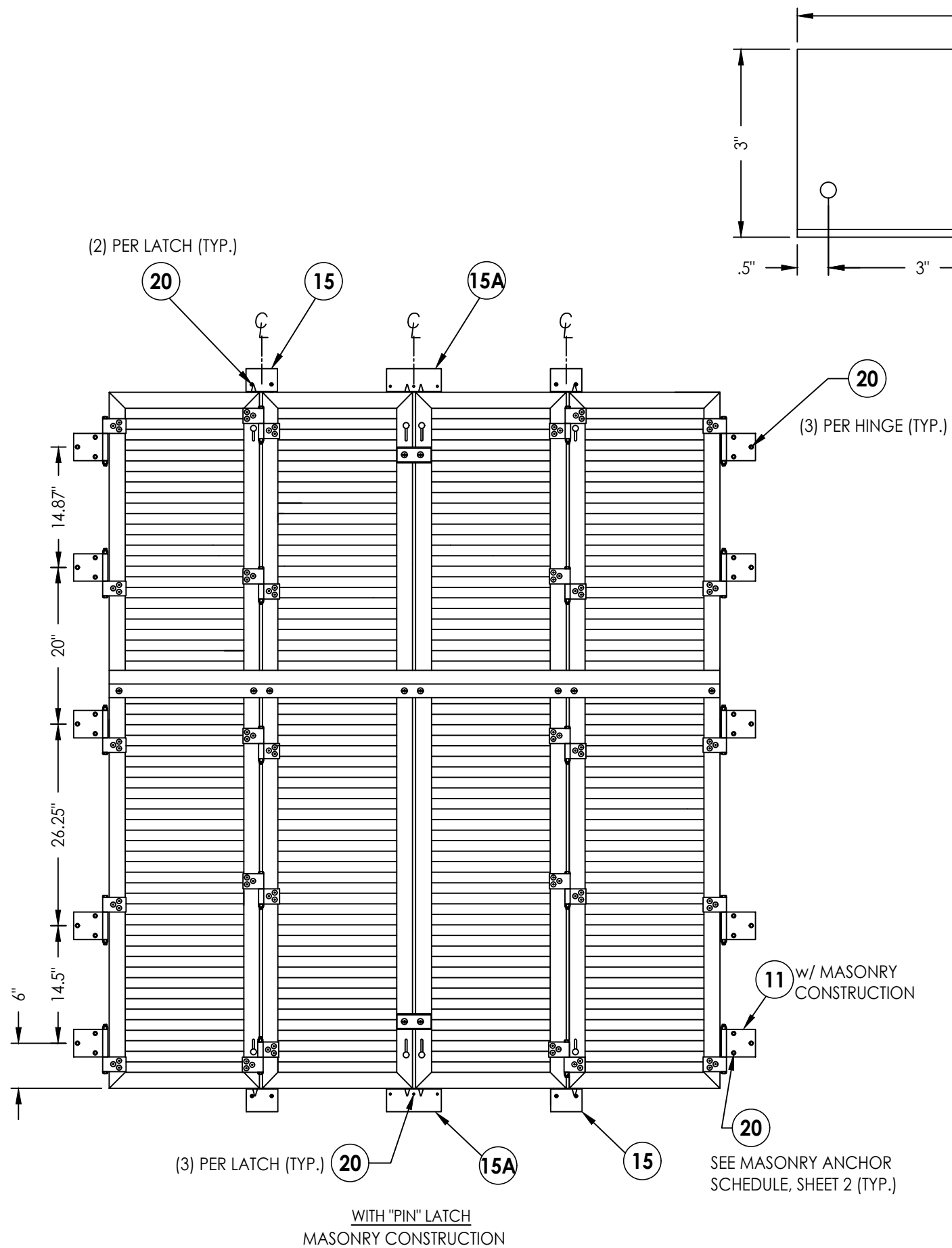
Stud construction

[illegible]

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

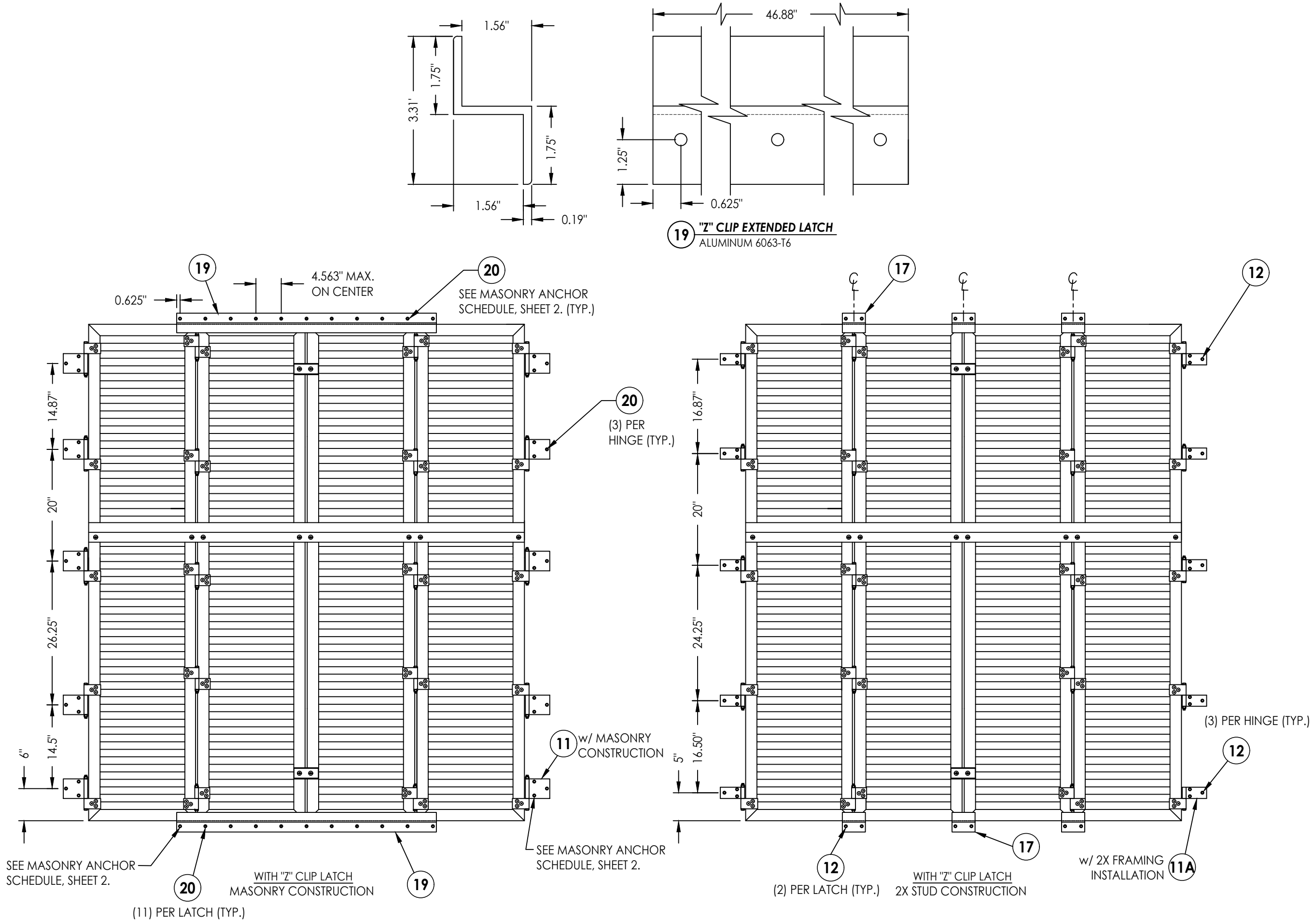
PART OR ASSEMBLY:
**VERTICAL CROSS SECTIONS
MASONRY & STUD CONSTRUCTION**

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



DATE: 8/31/23		DOCUMENTS PREPARED BY:	
SCALE: N.T.S.		Lyndon F. Schmidt	
DWG. BY: RW		P.E. No. 43409	
CHK. BY: LFS		<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-42400.1			
SHEET 5 OF 7			
REVISIONS			
NO.	DATE	BY	PRODUCT:
			EXTRUDED ALUMINUM
			COLONIAL HURRICANE SHUTTER
			PART OR ASSEMBLY:
			ANCHORING LOCATIONS
			MASONRY & STUD INSTALLATION

Z:\2023 FBC Drawings\N.A.S.A\FL-42400\FL-42400.1.dwg



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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
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PRODUCT:
EXTRUDED ALUMINUM
COLONIAL HURRICANE SHUTTER

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SHEET 6 OF 7

