

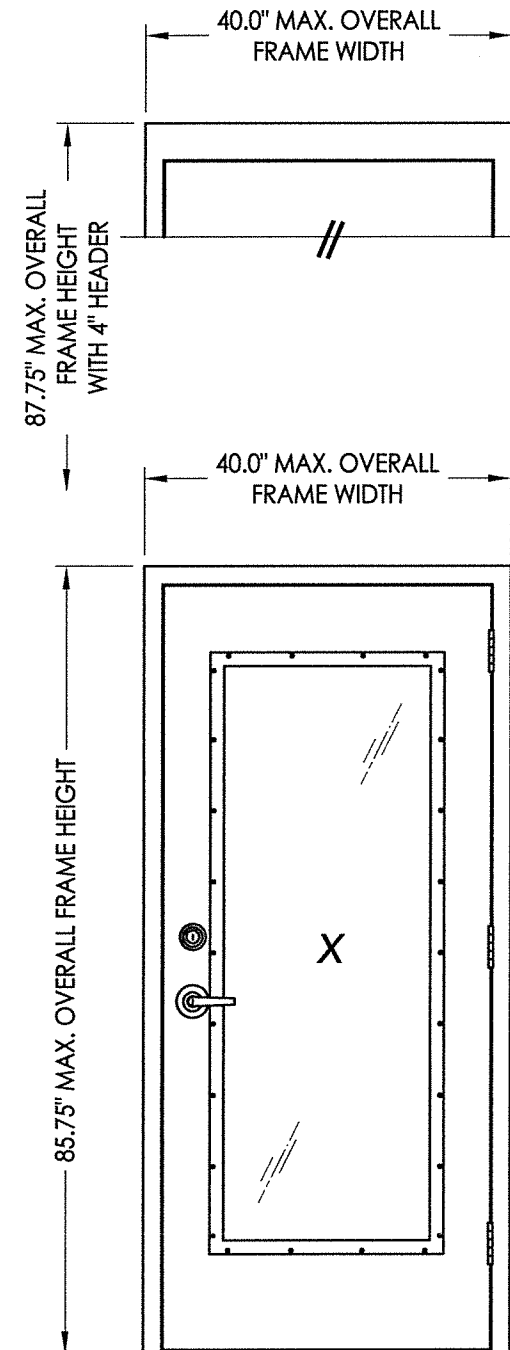
3228 6th AVENUE NORTH
P.O. BOX 635
BIRMINGHAM, AL 35201

**"D" SERIES
COMMERCIAL STEEL DOOR
OUTSWING
"IMPACT"**

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) 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 "HVHZ", this product complies with Section 1626 of the Florida Building Code and does not require an impact resistant covering.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. Outswing configurations using sill item #40 and #42 do not meet the water infiltration requirements for the "HVHZ" and shall be installed only in non-habitable areas or at habitable locations protected by an overhang or canopy such that the angle between the edge of canopy or overhang to sill is less than 45 degrees.
6. All steel shall be protected as specified in Section 2222.6 of the FBC.

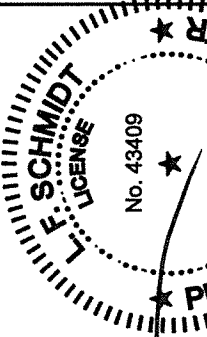
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Door panel details
3	Horizontal cross sections
4	Vertical cross sections
5	Anchoring details
6	Components
7	Bill of materials, glazing details & components



OVERALL FRAME DIMENSION	OVERALL D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
40.0" x 85.75"	22.5" x 62.5"	+65.0	-70.0

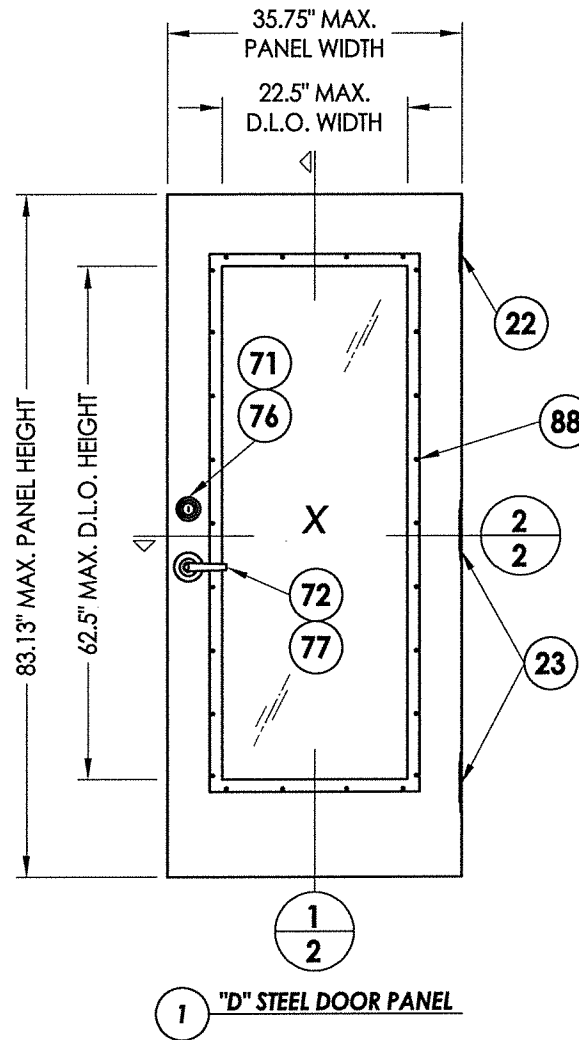

October 6, 2020

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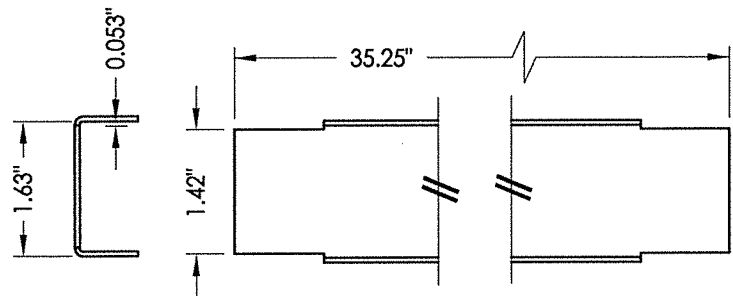


RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

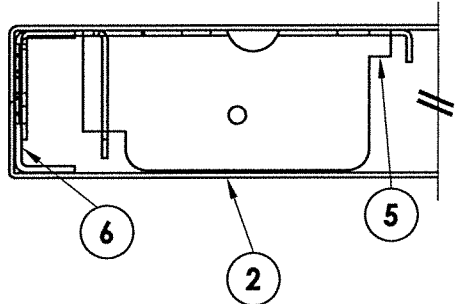
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1 "D" STEEL DOOR PANEL

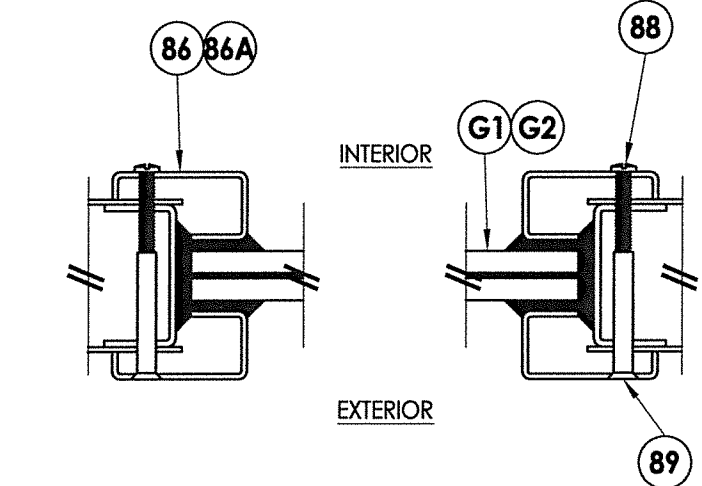
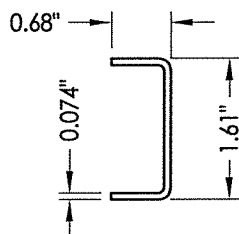


4 DOOR TOP & BOTTOM CLOSER

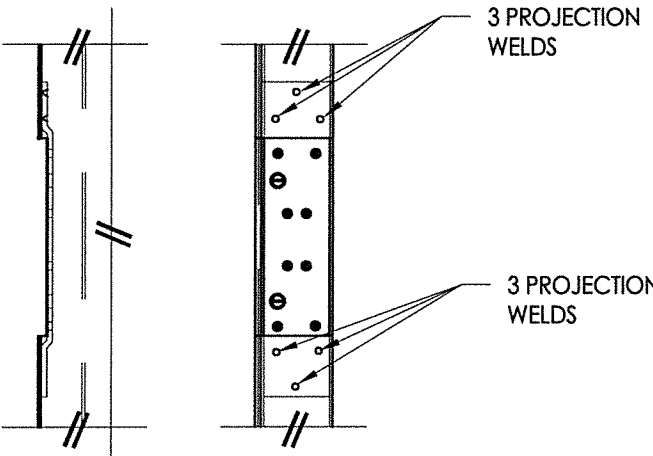


6 DOOR STILE EDGE Reinforcement

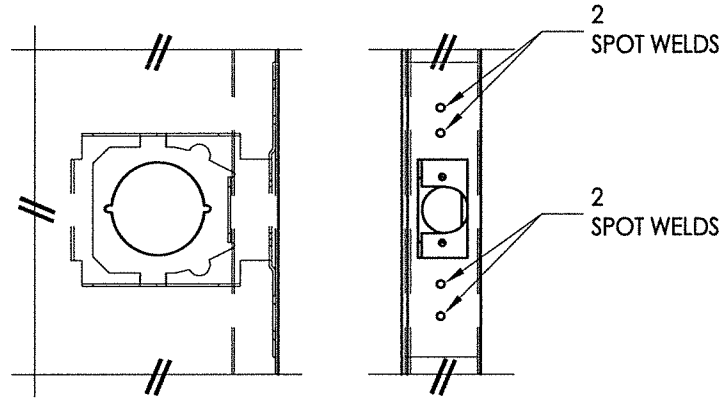
Glass stop retaining screws
2" from corners and
7-3/4" max. o.c.



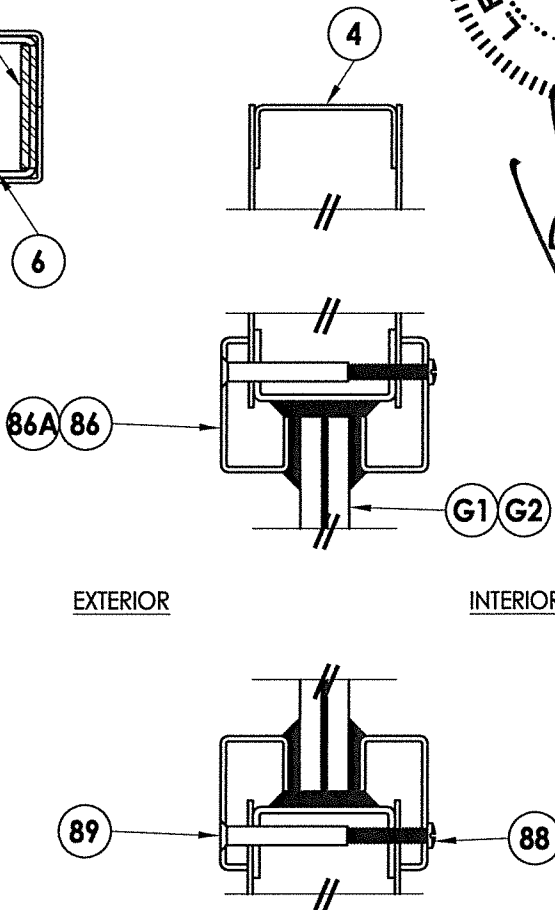
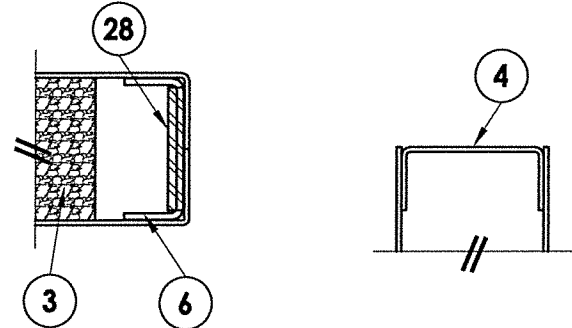
2/2 HORIZONTAL CROSS SECTION



23 DOOR HINGE REINFORCEMENT



5 LOCK BOX REINFORCEMENT

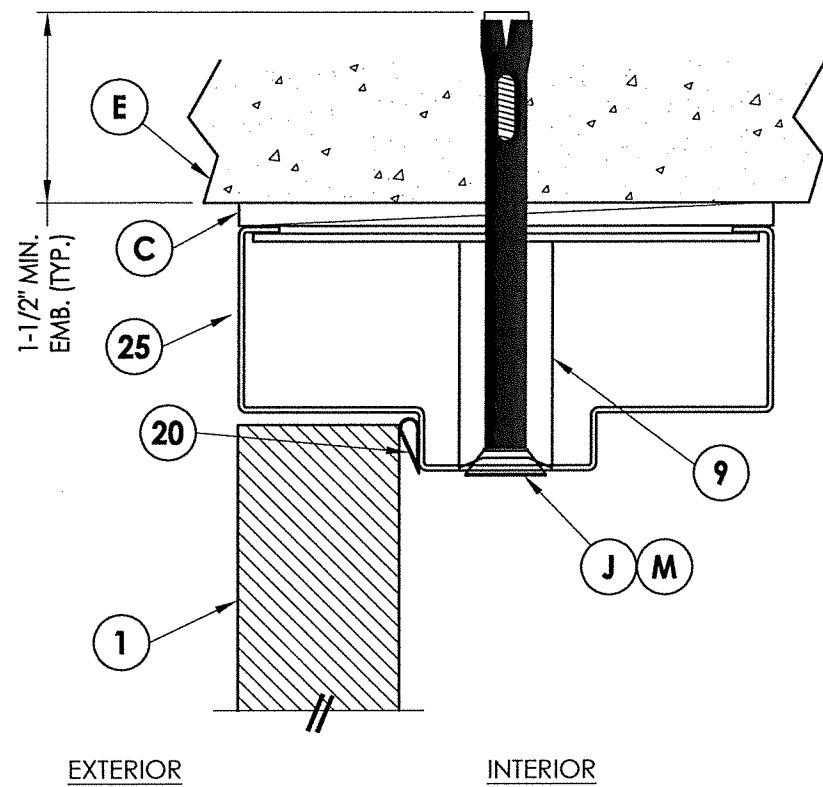


1/2 VERTICAL CROSS SECTION

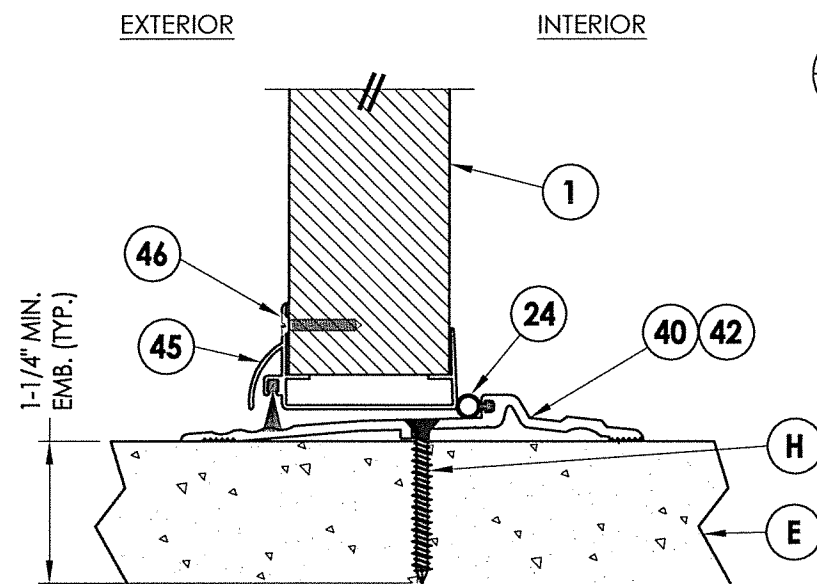
October 6, 2020
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F. SCHMIDT
LICENSE
No. 43409
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		MEGAMET INDUSTRIES, INC.			
		"D" STEEL DOOR			
PART OR ASSEMBLY:		DOOR PANEL DETAILS			
		REVISIONS			
		NO.	DATE	BY	
	3	10/05/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
	2	10/16/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
	1	1/06/15	UPDATE TO 5TH ED. (2014)	FBC	LFS
DATE:		7/17/13			
SCALE:		N.T.S.			
DWG. BY:		JK			
CHK. BY:		LFS			
DRAWING NO.:		FL-16494.5			
SHEET		2 OF 7			

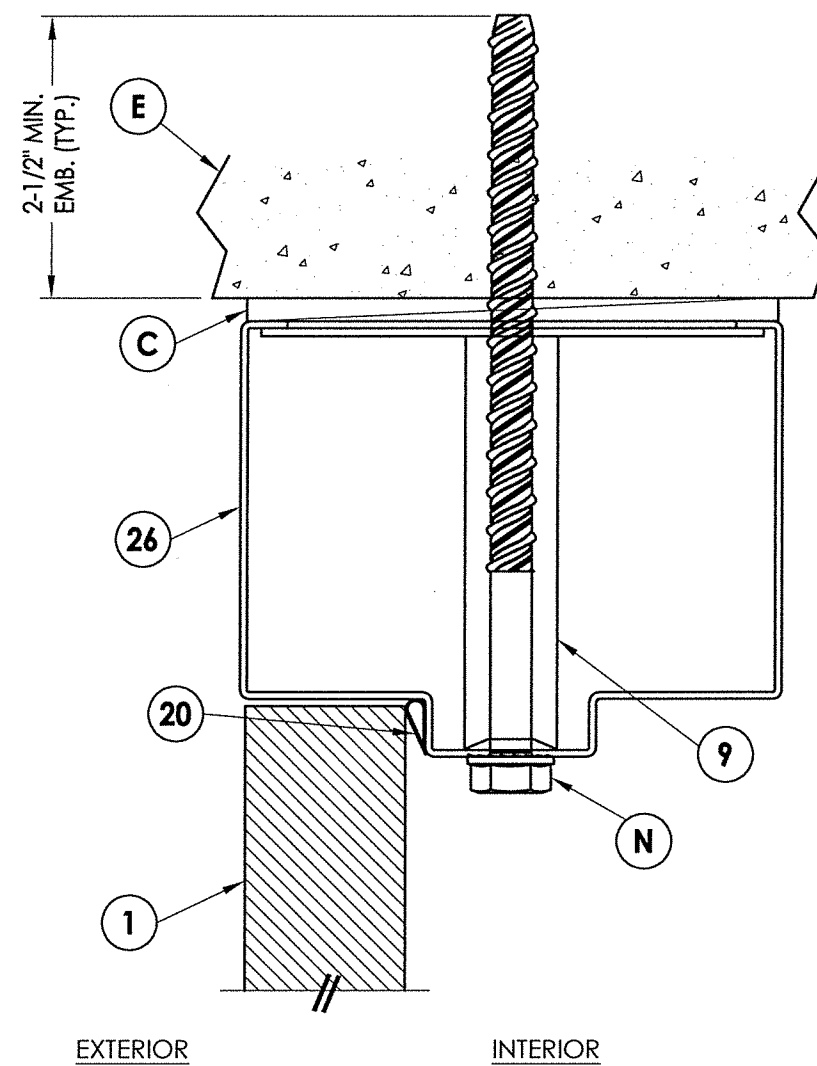
EXTERIOR



EXTERIOR INTERIOR



EXTERIOR INTERIOR



EXTERIOR INTERIOR



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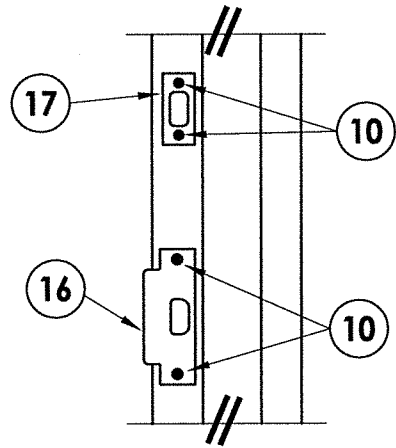
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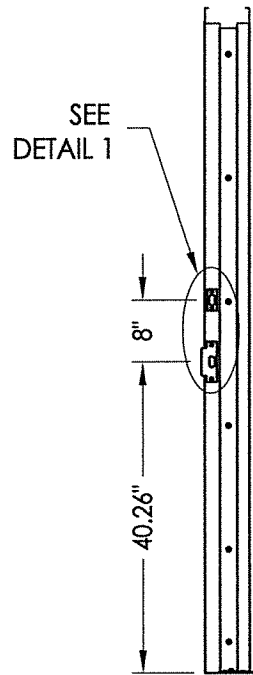


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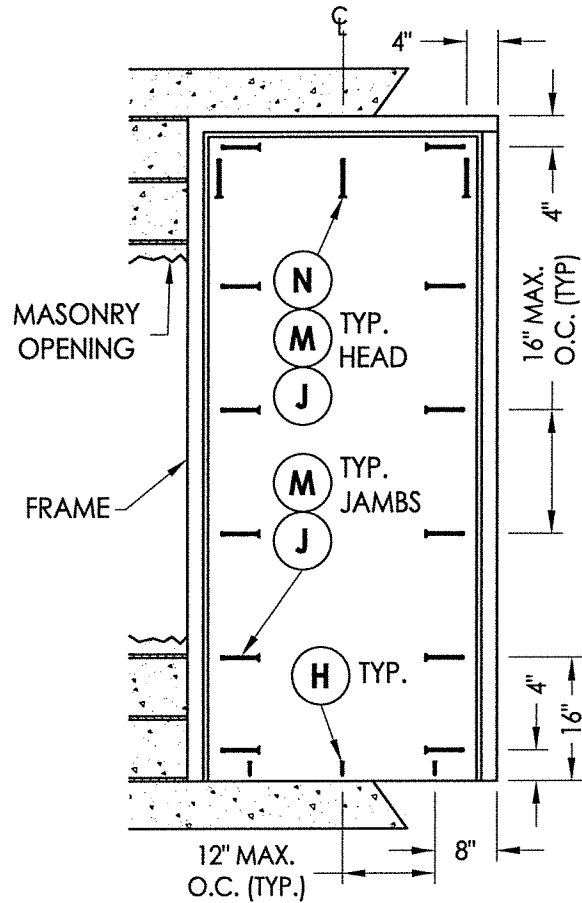
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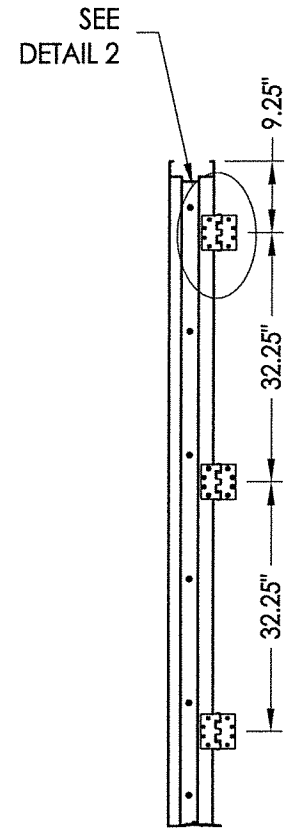
DETAIL 1



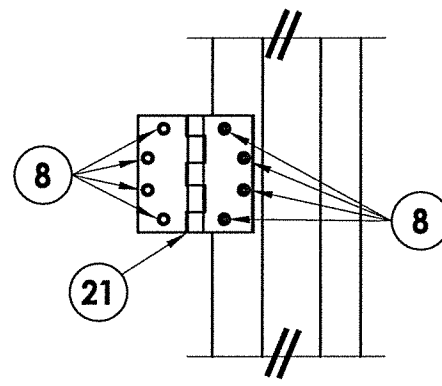
STRIKE JAMB



FRAME ANCHORING



HINGE JAMB

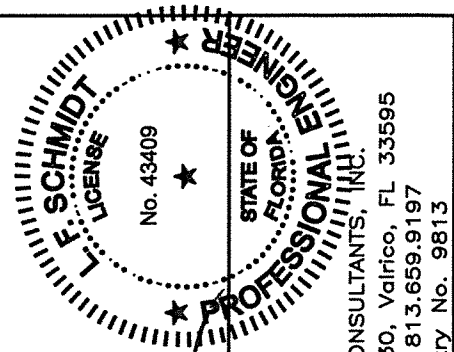


DETAIL 2

ANCHOR NOTES:

1. Substitution of equal concrete screws from a different supplier may have different edge distance and center distance requirements.
2. Concrete screw locations at the corners may be adjusted to maintain the minimum edge distance to mortar joints. If concrete screw locations noted as "MAX. ON CENTER" must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
3. Concrete Anchor Table:

ANCHOR TYPE	ANCHOR SIZE	MINIMUM EMBEDMENT	MINIMUM CLEARANCE TO MASONRY EDGE	MINIMUM CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2-1/2"	4"
DYNABOLT SLEEVE ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"
POWERS TAPPER	3/8"	1-1/2"	4"	3-3/4"
SCREW-BOLT+™	1/2"	2-1/2"	6"	6"



October 6, 2020
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FBPE Registry No. 9813

PRODUCT:
MEGAMET INDUSTRIES, INC.
"D" STEEL DOOR
PART OR ASSEMBLY:
ANCHORING DETAILS

REVISIONS			
NO.	DATE	BY	
3	10/05/20	UPDATE TO 7TH ED. (2020)	FBC LFS
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1	1/06/15	UPDATE TO 5TH ED. (2014)	FBC LFS

DATE: 7/17/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-16494.5
SHEET 5 OF 7

Technical drawing of a U-shaped profile with the following dimensions:

- Overall width: 5.87"
- Overall height: 4.7"
- Top flange thickness: 0.5"
- Web thickness: 0.075"
- Bottom flange thickness: 4"
- Bottom flange width (left): 1.85"
- Bottom flange width (right): 2.01"

Technical drawing of a frame hinge showing top and side views with dimensions.

Top View Dimensions:

- Overall width: 3.48"
- Left end hole spacing: 1.13" (center-to-center), 0.375" (edge-to-center)
- Central hole spacing: 1.23" (center-to-center), 0.62" (edge-to-center)
- Right end hole spacing: 1.13" (center-to-center), 0.25" (edge-to-center)
- Overall length: 8.5"
- Central section length: 4.75"
- End section length: 1.19"
- End hole spacing: 1.13" (center-to-center), 1.25" (edge-to-center)

Side View Dimensions:

- Overall height: 1"
- End section height: 0.75"
- Central section height: 0.75"
- End section height: 0.175"

Other Features:

- Four circular holes are shown in the top view, arranged in two pairs.
- The side view shows a profile with a central raised section and two lower end sections.

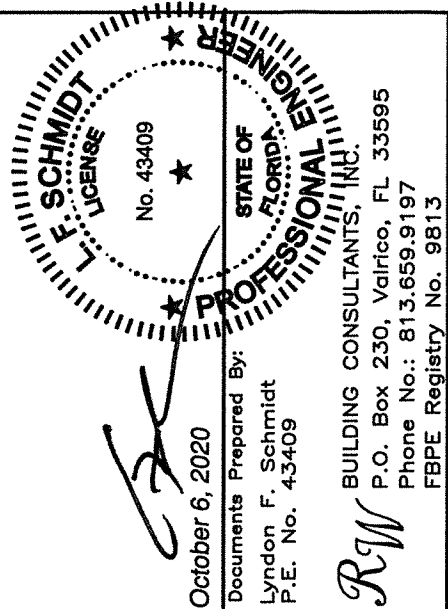
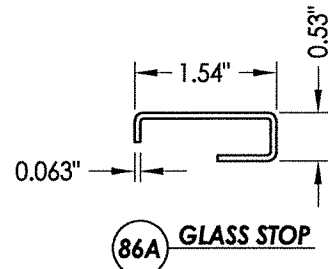
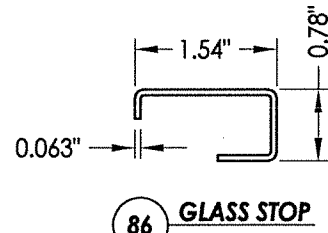
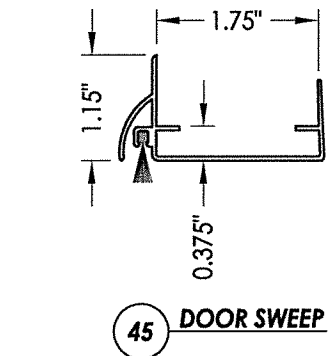
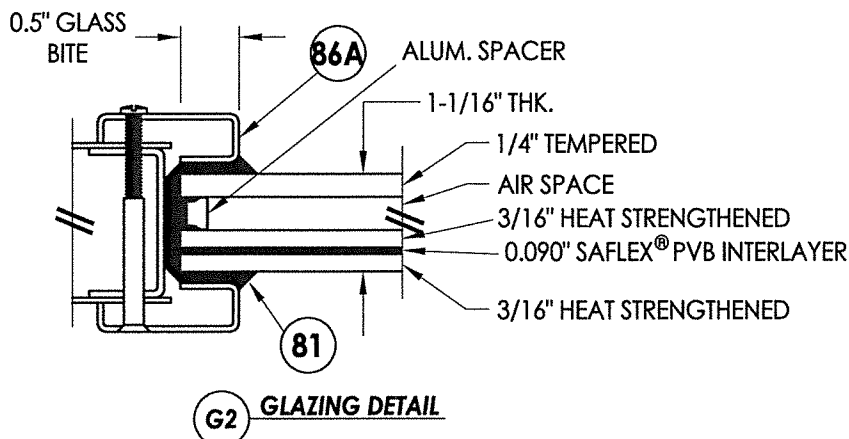
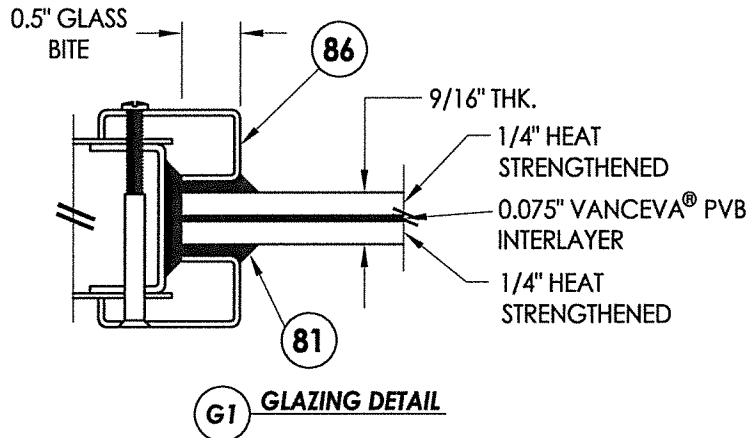
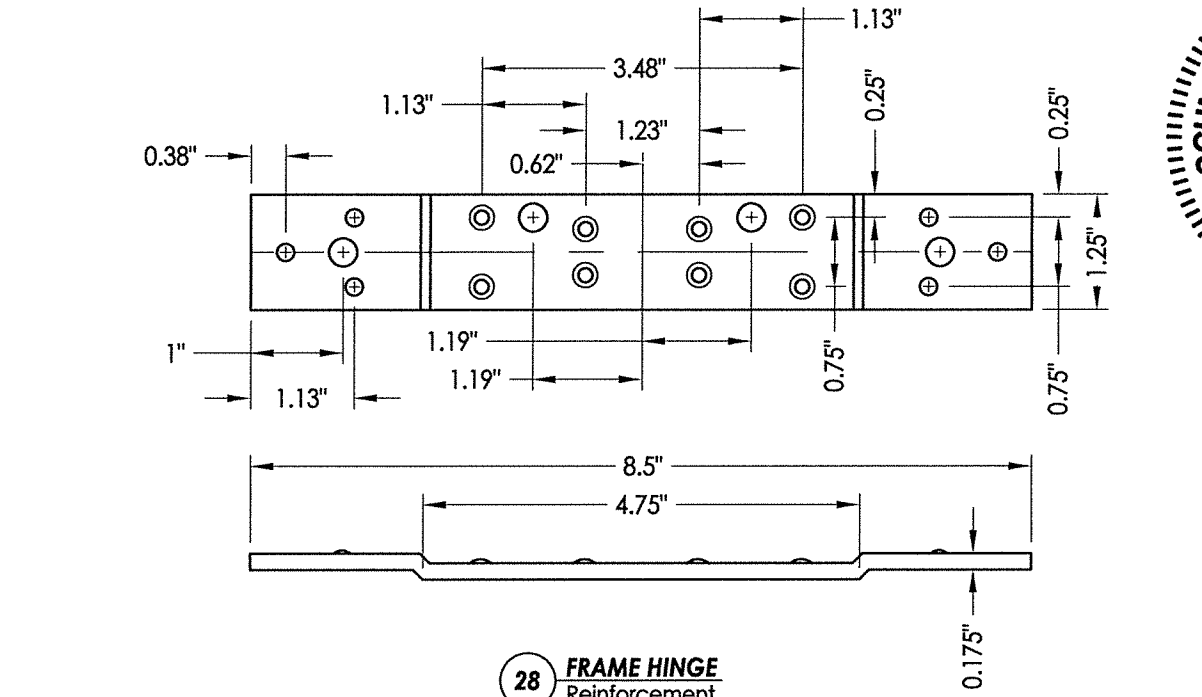
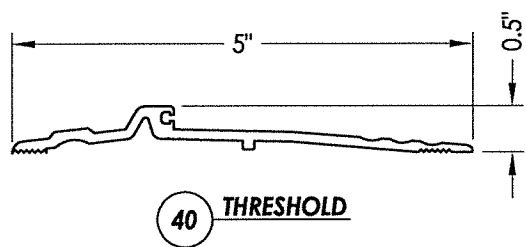
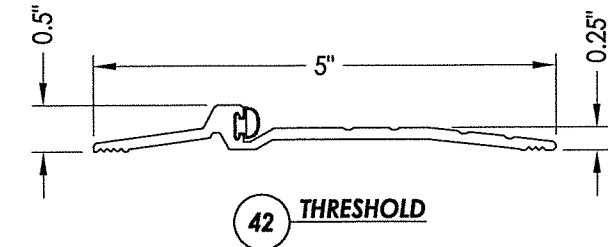
Technical drawing of a square nut. The drawing shows a top view of the nut, which has a square outer profile with rounded corners and a central circular hole. The dimensions are as follows:

- Top horizontal dimension: 3.88"
- Left vertical dimension: 3.5"
- Bottom horizontal dimension: 4.68"
- Right vertical dimension: 6.73"
- Top right corner dimension: .060"

SHEET 6 OF 7

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
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BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
H	1/4" x 1-3/4" ITW PFH CONCRETE SCREW	STEEL
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL
M	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL
N	1/2" X 8" HH SCREW-BOLT+ CONC. ANCHOR (DeWALT/POWERS)	STEEL
1	"D" STEEL DOOR PANEL	-
2	DOOR SKIN - 16GA (0.060" THK. STEEL, Fy = 40,317 PSI MIN.)	STEEL
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE
4	DOOR TOP & BOTTOM CLOSER	STEEL
5	LOCK BOX REINFORCEMENT	STEEL
6	DOOR STILE EDGE REINFORCEMENT (D DOOR)	STEEL
8	#12-24 x 1/2" SELF TAPPER	STEEL
9	TUBE ANCHOR	STEEL
10	#12-24 X 1" COMBINATION MACHINE / WOOD SCREW	STEEL
16	ANSI LATCH STRIKE	STEEL
17	DEADBOLT STRIKE	STEEL
19	DEADBOLT STRIKE REINFORCEMENT	STEEL
20	WEATHERSTRIP	NEOPRENE
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL
23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
24	WEATHERSTRIP (THRESHOLD)	NEOPRENE
25	FRAME - 14GA (0.075" THK) WITH 2" HEAD	STEEL
26	FRAME - 14GA (0.075" THK) WITH 4" HEAD	STEEL
27	LATCH STRIKE REINFORCEMENT	STEEL
28	FRAME HINGE REINFORCEMENT	STEEL
40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
42	THRESHOLD PEMKO #2005V	ALUMINUM
45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
46	#6 X 3/4" PHILLIPS HEAD SMS	STEEL
71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
81	DOW 995 STRUCTURAL SILICONE	SILICONE
86	LITE FRAME BY AIR LOUVERS #1500-AJ-2464	STEEL
86A	LITE FRAME BY AIR LOUVERS #VLFIG-HRC-2464-01	STEEL
88	#8 X 1-1/2" PPH MS	STEEL
89	SCREW COVER	STEEL



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DATE:		7/17/13		SCALE:	
DWG. BY:		JK		CHK. BY:	
DRAWING NO.:		FL-16494.5		SHEET	
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