

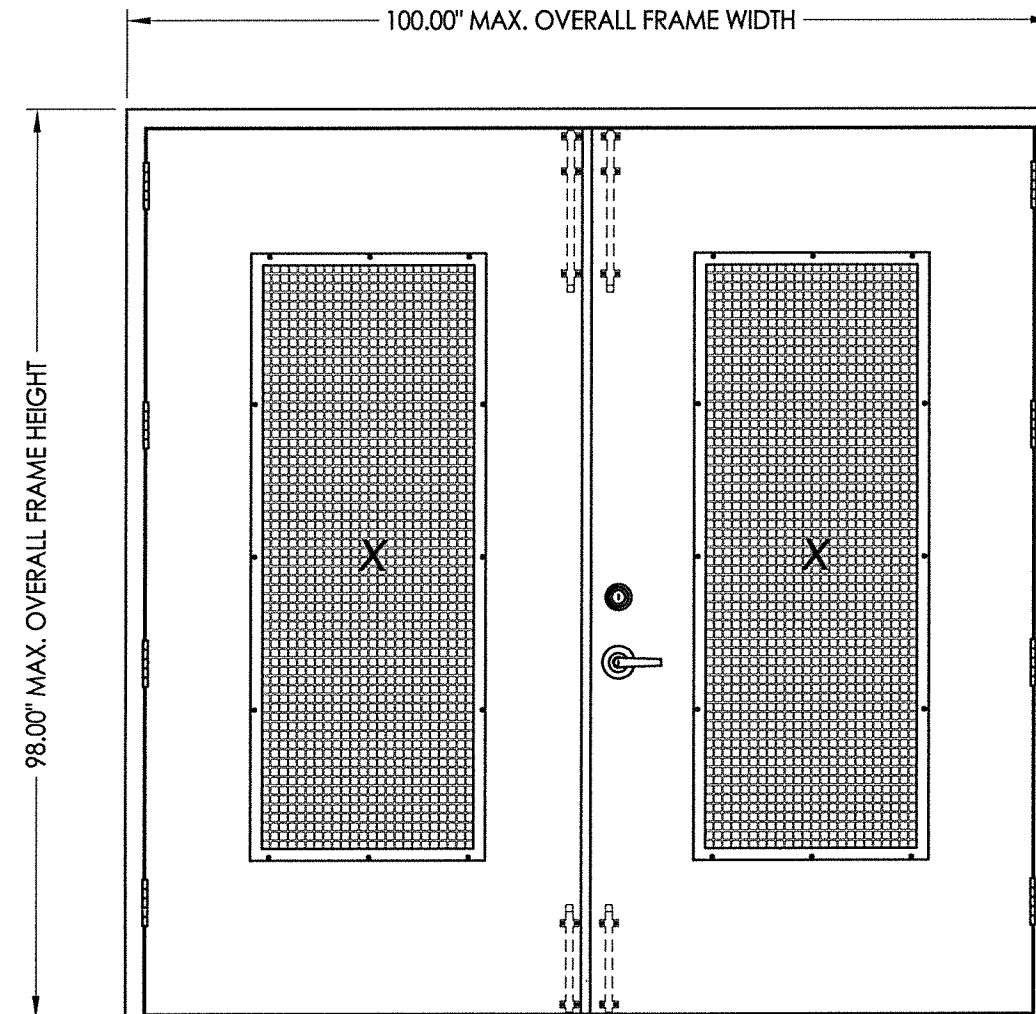
3228 6th AVENUE NORTH
P.O. BOX 635
BIRMINGHAM, AL 35201

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

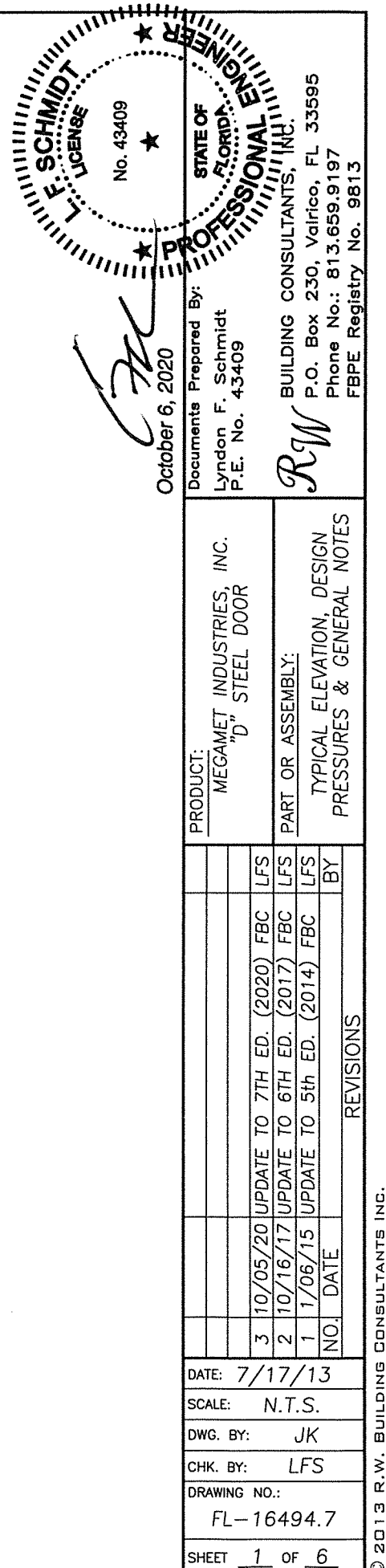
GENERAL NOTES

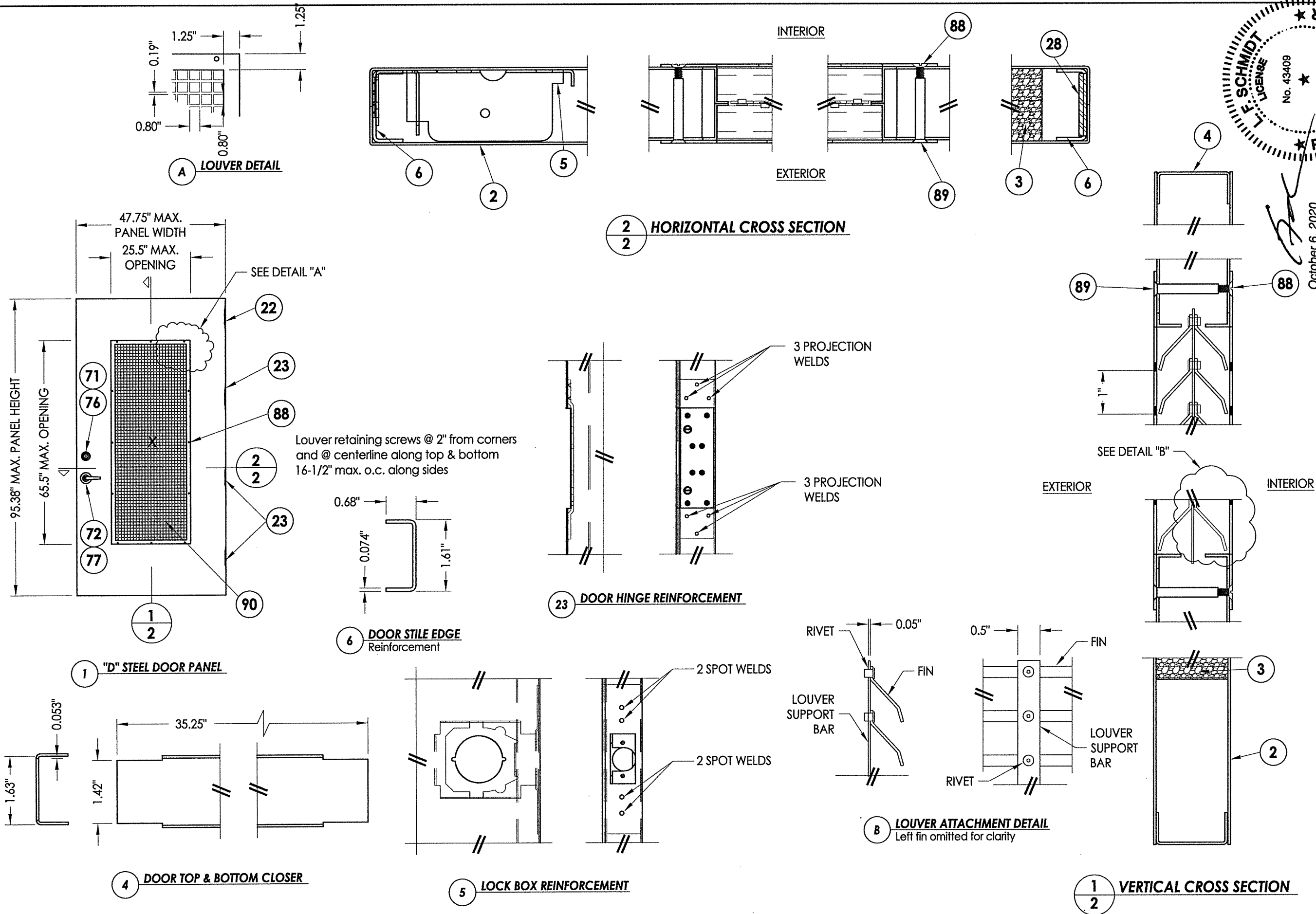
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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 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 & vertical cross sections
4	Anchoring details
5	Components
6	Bill of materials & components



OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
100.0" x 98.0"	+75.0	-75.0





October 6, 2020

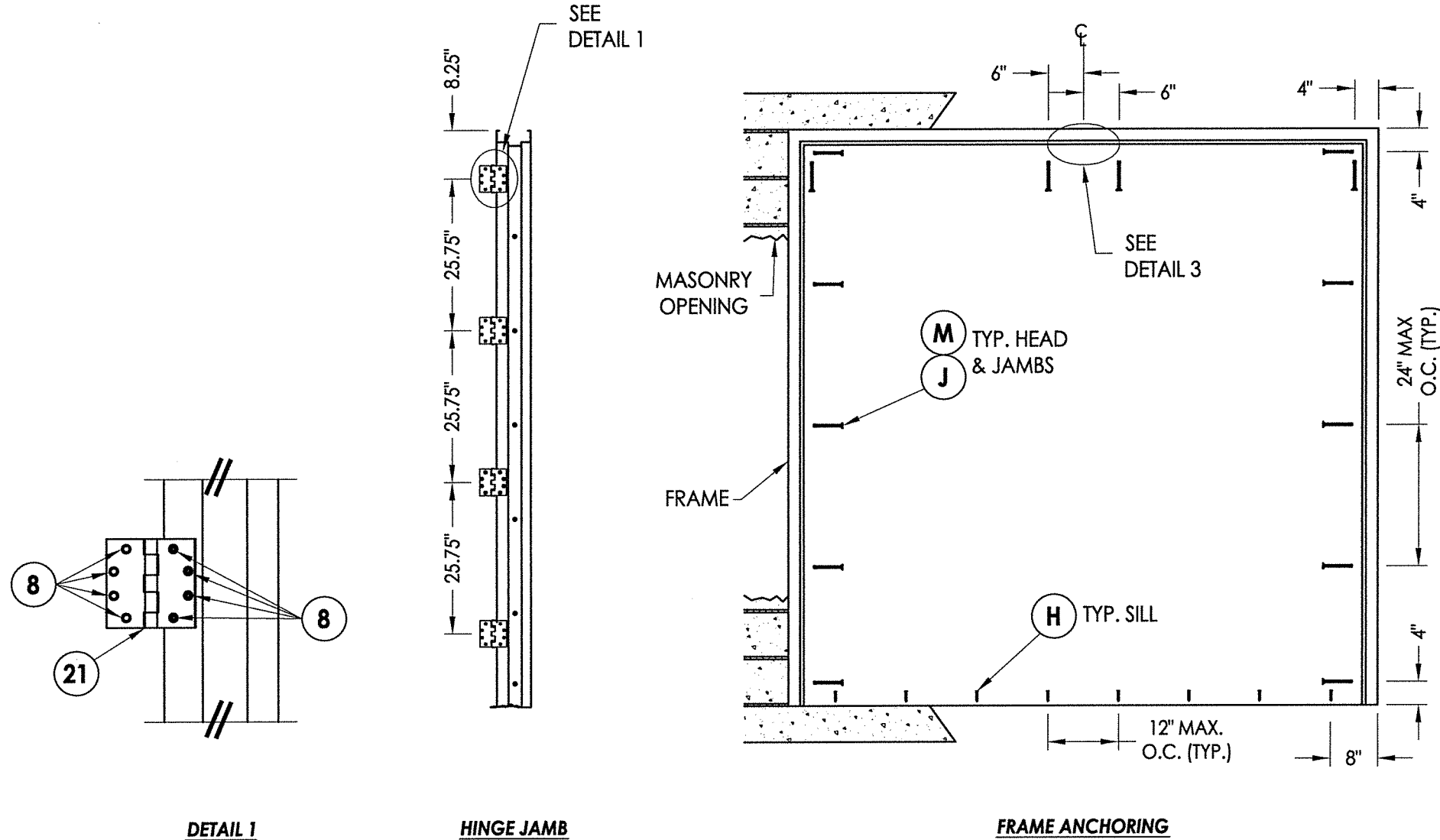
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

STATE OF FLORIDA
F. SCHMIDT
LICENSE
No. 43409
PROFESSIONAL ENGINEER

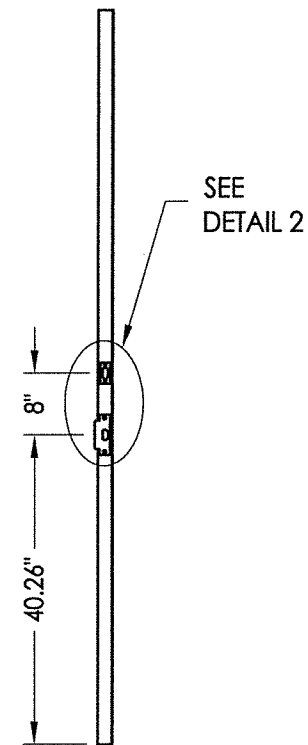
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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-16494.7			
SHEET		2	OF 6		

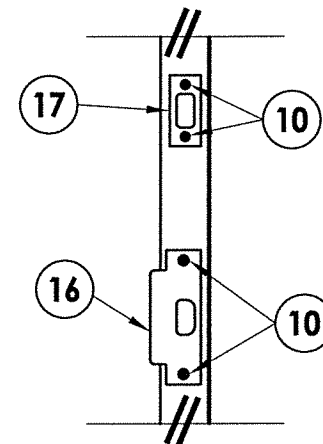
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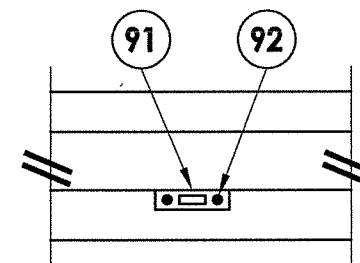
FRAME ANCHORING



STRIKE JAMB



DETAIL 2

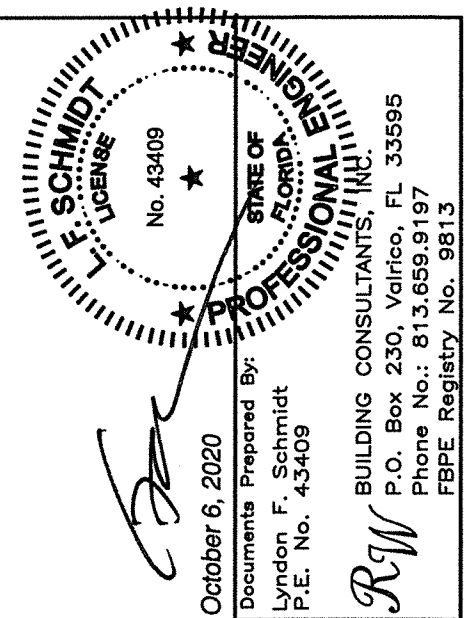


DETAIL 3
(Each Surface Bolt)

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"



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R²W
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"D" STEEL DOOR

PART OR ASSEMBLY:
ANCHORING DETAILS

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
NO.	DATE				BY
					REVISIONS

DATE: 7/17/13

SCALE: N.T.S.

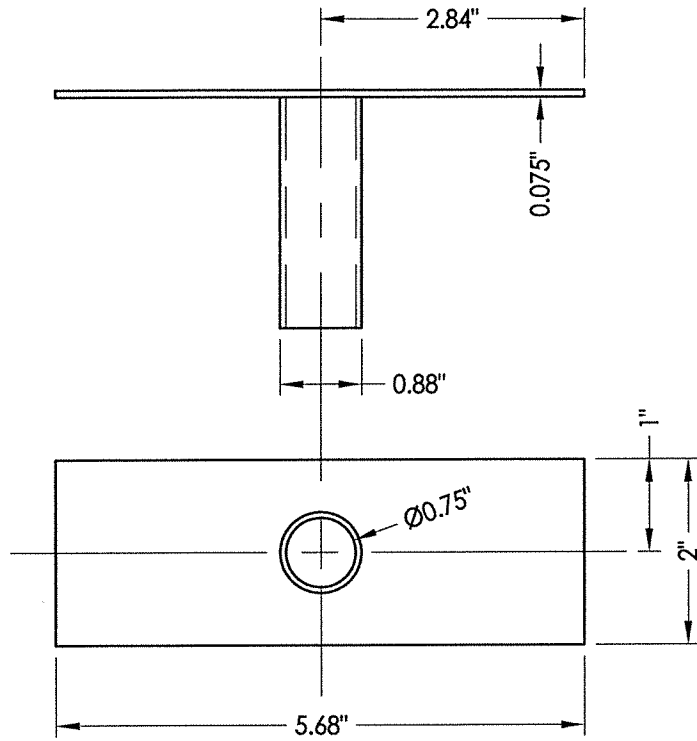
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CHK. BY: LFS

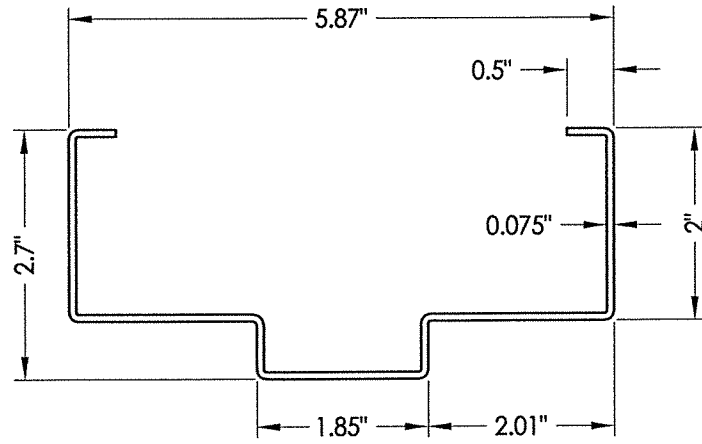
DRAWING NO.:

FL-16494.7

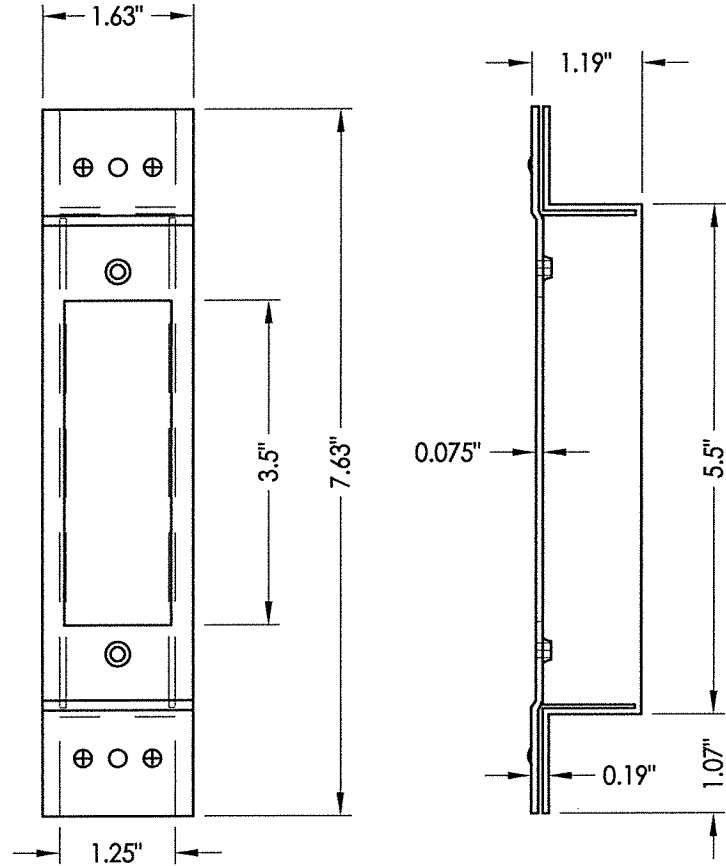
SHEET 4 OF 6



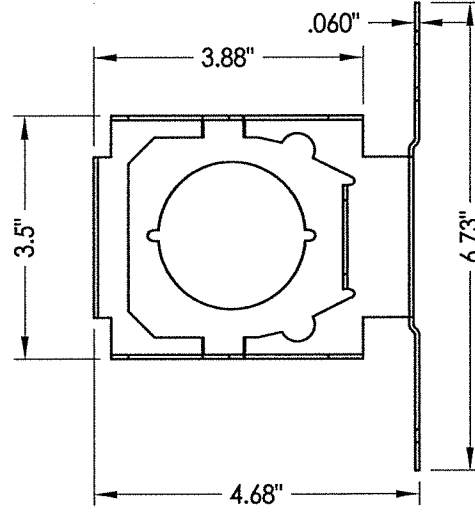
9 TUBE ANCHOR



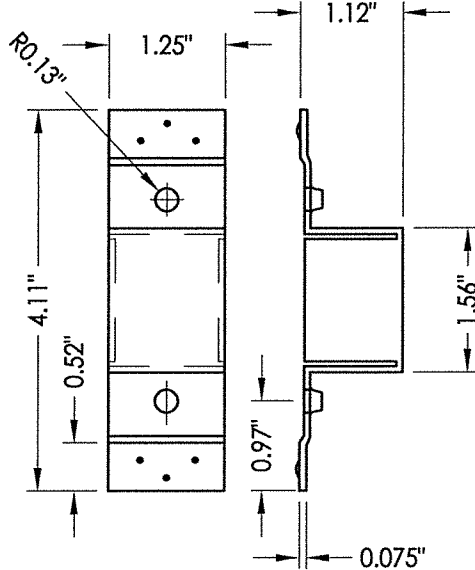
25 HOLLOW METAL FRAME



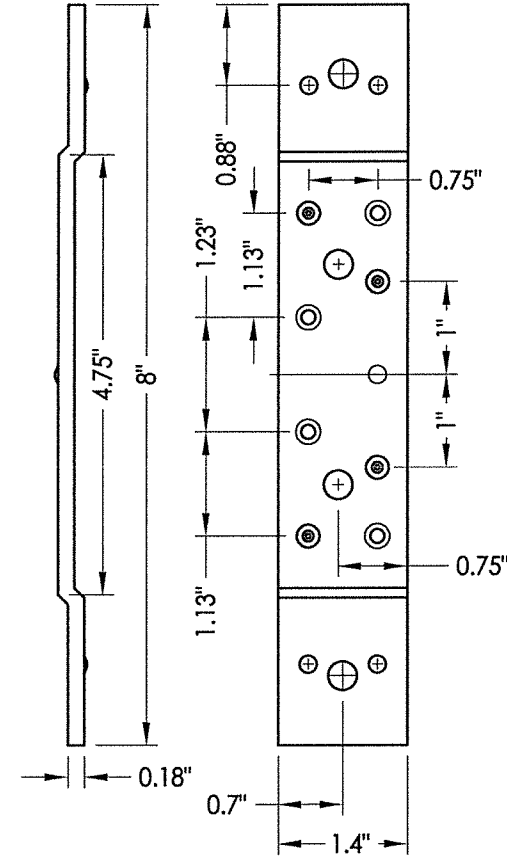
27 LATCH STRIKE REINFORCEMENT



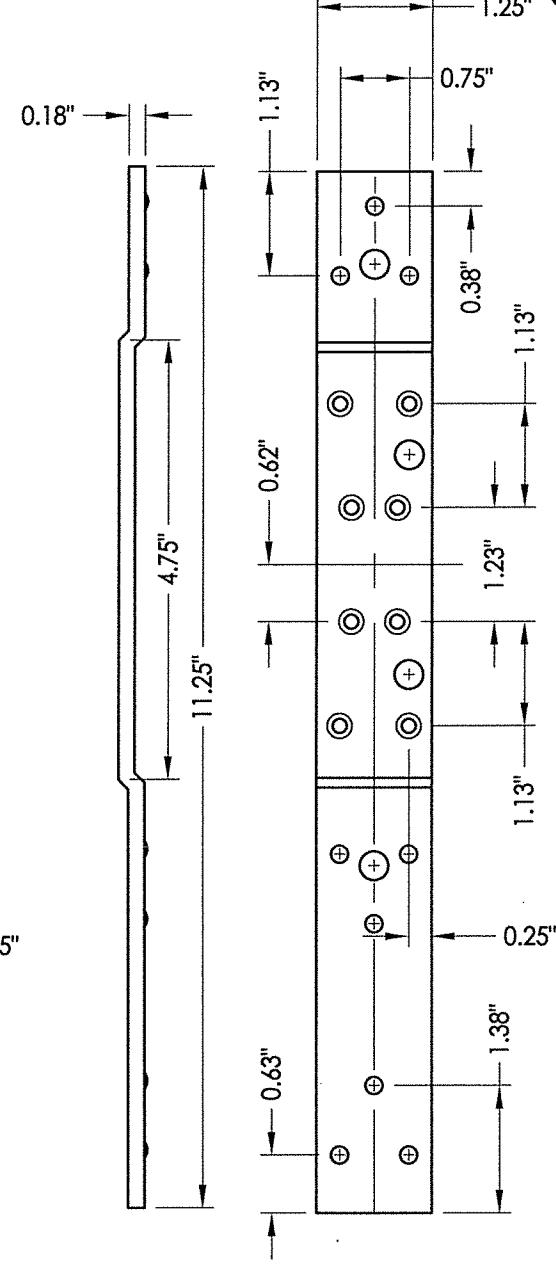
5 LOCK BOX REINFORCEMENT



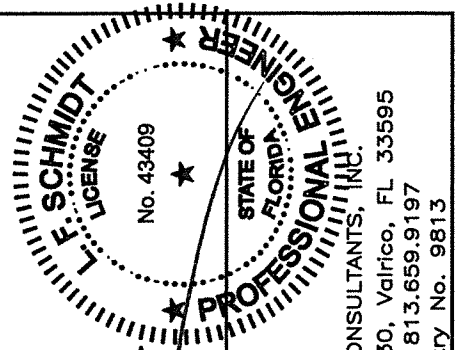
19 DEADBOLT STRIKE REINFORCEMENT



23 STANDARD (SHORT) DOOR HINGE
Reinforcement middle and bottom hinge



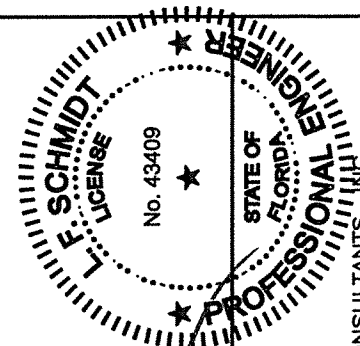
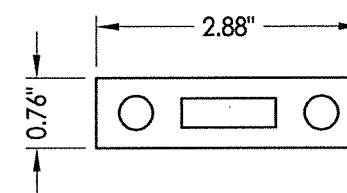
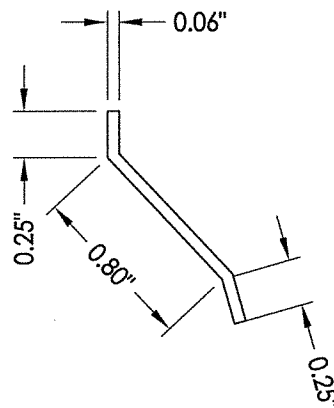
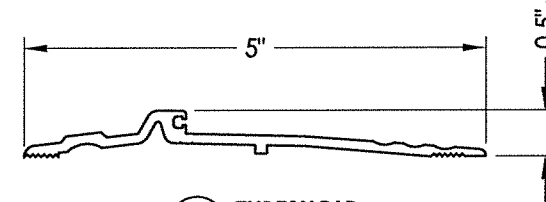
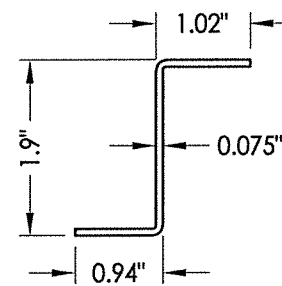
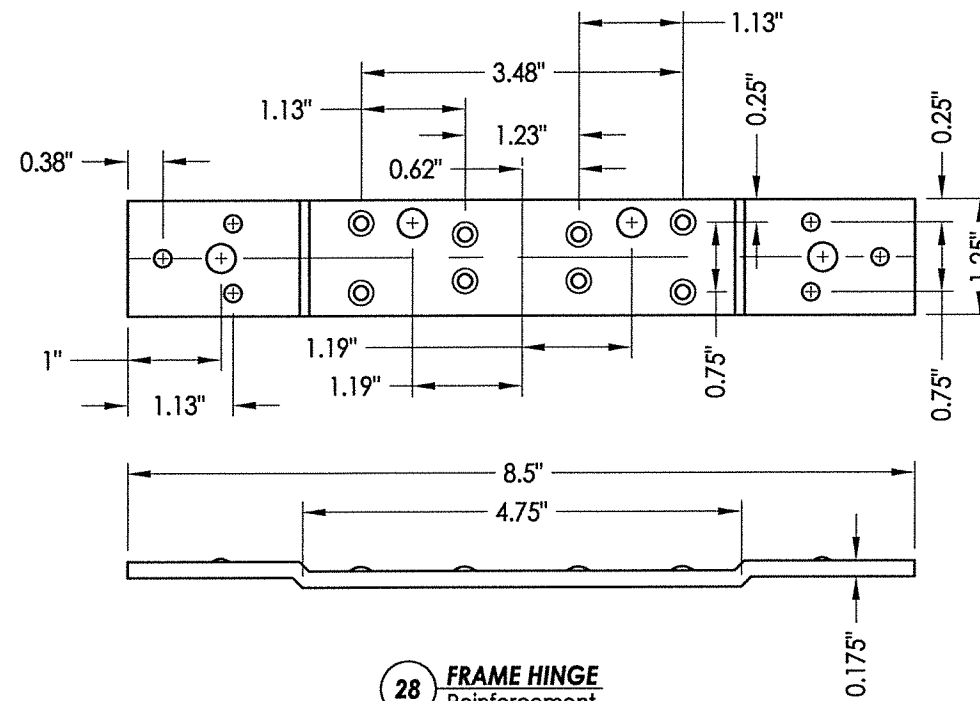
22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge



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Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
R.W. BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:		MEGAMET INDUSTRIES, INC.		"D" STEEL DOOR	
PART OR ASSEMBLY:		COMPONENTS			
NO.		DATE		REVISIONS	
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-16494.7			
SHEET		5		OF 6	

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
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)	STEEL
27	LATCH STRIKE REINFORCEMENT	STEEL
28	FRAME HINGE REINFORCEMENT	STEEL
40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
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
82	SURFACE BOLT	STEEL
83	1/4" X 2-1/2" PPH MS	STEEL
87	Z ASTRAGAL	STEEL
88	#8 X 1-1/2" PPH MS	STEEL
89	SCREW COVER	STEEL
90	LOUVER (MODEL 1500-A-HRC BY AIR LOUVERS)	STEEL
91	SURFACE BOLT PLATE	STEEL
92	#8 X 1-1/4" PPH SELF TAPPER	STEEL



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Lyndon F. Schmidt
P.E. No. 43409



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

PRODUCT: MEGAMET INDUSTRIES, INC.
"D" STEEL DOOR

PART OR ASSEMBLY:

[illegible]

DATE: 7/17/13

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-16494.7

SHEET 6 OF 6