

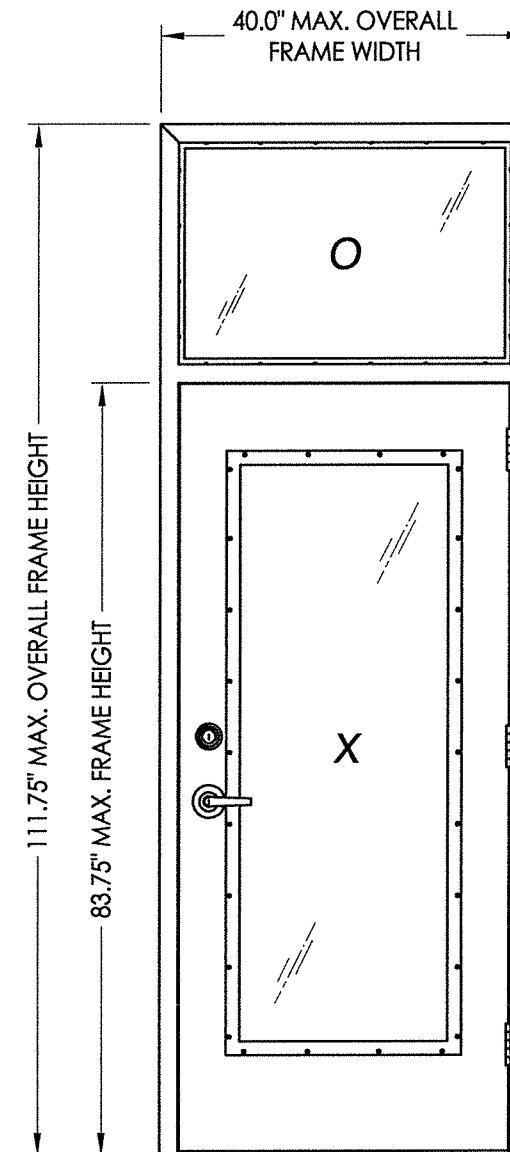
3228 6th AVENUE NORTH
P.O. BOX 635
BIRMINGHAM, AL 35201

**"D" SERIES
COMMERCIAL STEEL DOOR
w/ TRANSOM
OUTSWING
"IMPACT"**

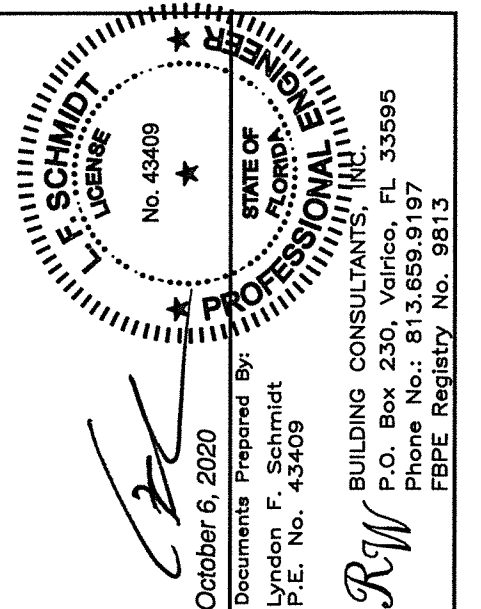
GENERAL NOTES

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



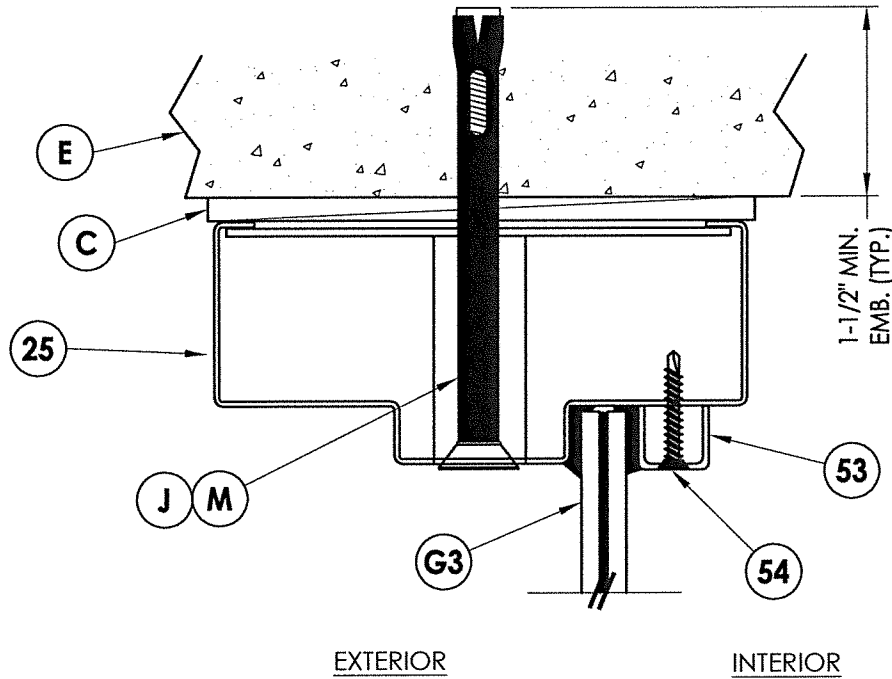
OVERALL FRAME DIMENSION	DOOR D.L.O. DIMENSION	TRANSOM D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
40.0" x 111.75"	22.5" x 62.5"	34.75" x 22.75"	+65.0	-70.0



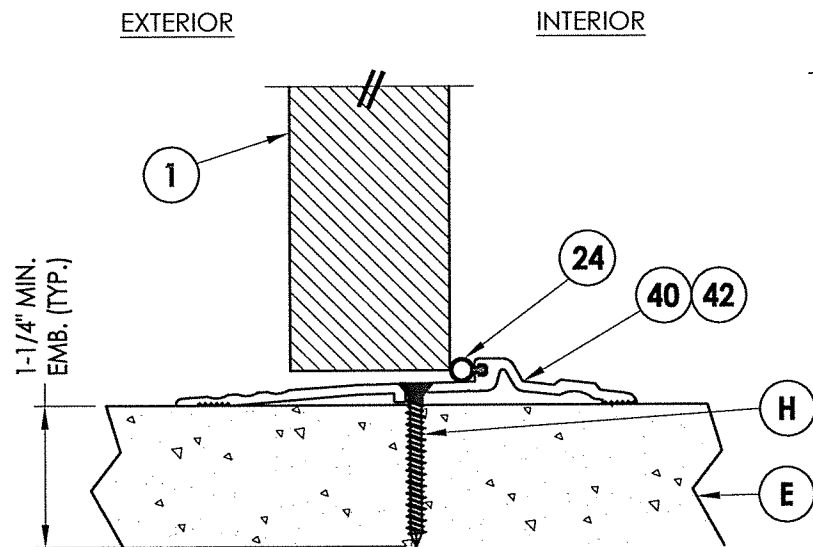
DATE: 7/17/13		PRODUCT: MEGAMET INDUSTRIES, INC. "D" STEEL DOOR	
SCALE: N.T.S.		PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES	
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-16494.6			
SHEET 1 OF 7			

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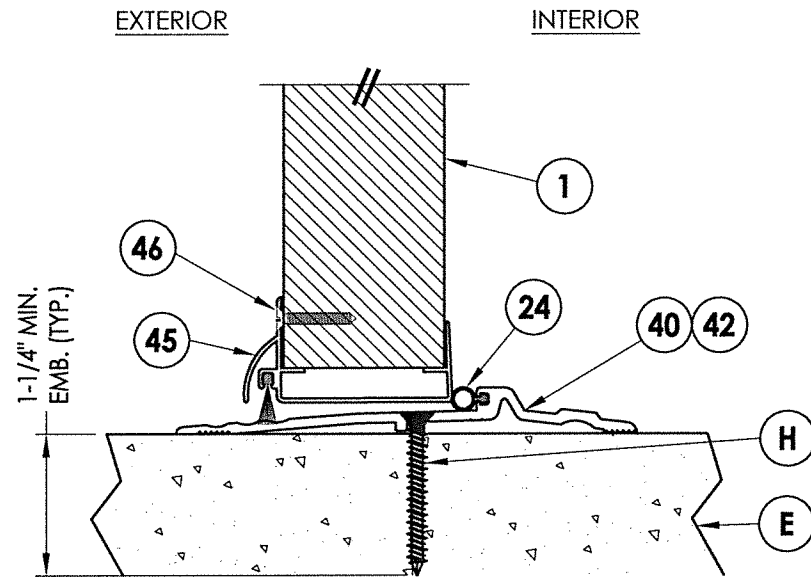
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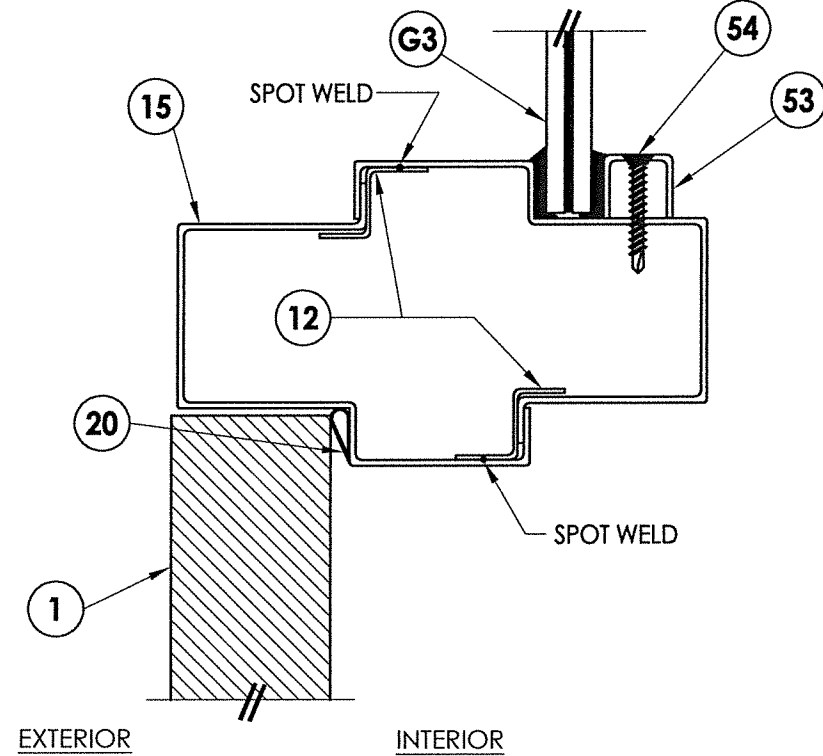
1
4 VERTICAL CROSS SECTION



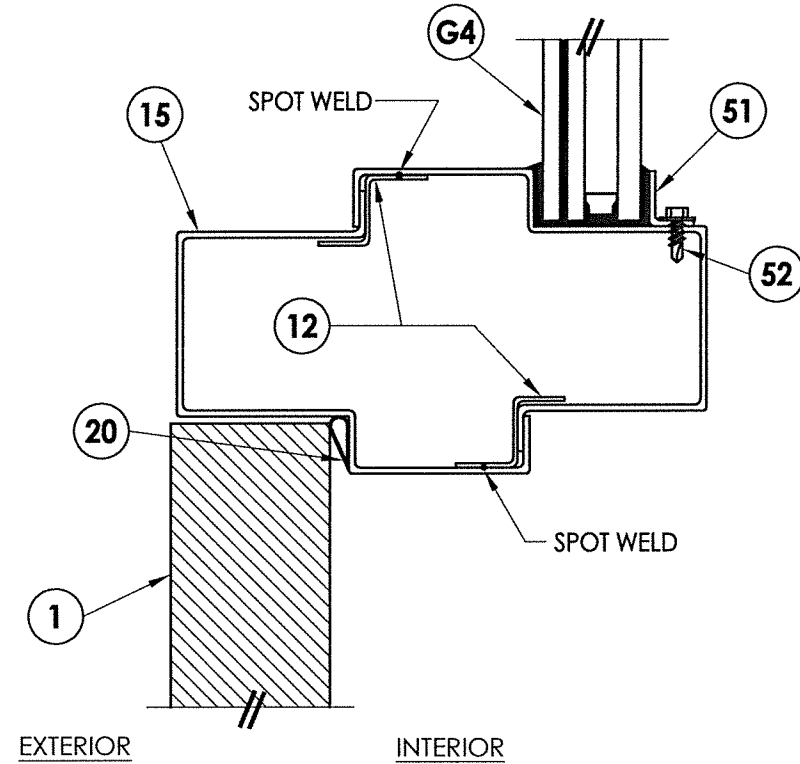
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4 VERTICAL CROSS SECTION



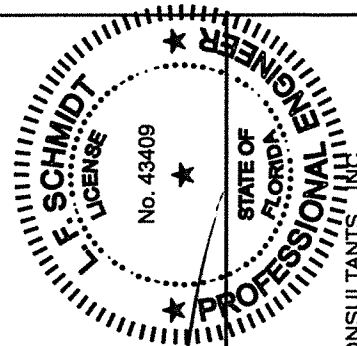
5
4 VERTICAL CROSS SECTION



2
4 VERTICAL CROSS SECTION



4
4 VERTICAL CROSS SECTION
Optional glazing



October 6, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
R.W. 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:
VERTICAL
CROSS SECTIONS

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-16494.6

SHEET 4 OF 7

SEE DETAIL 1

8'0"

40'26"

ITEM #52 OR #54
GLASS STOP
RETAINING SCREW
3" FROM CORNER
6" MAX ON CENTER

FRAME —

MASONRY
OPENING

FRAME ANCHORING

M TYP. H
J & JAN

H TYP.
SILL

SEE
DETAIL 2

HINGE JAMB

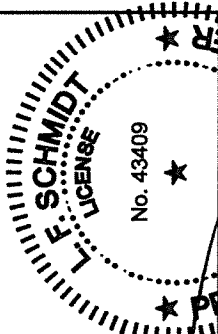
DETAIL 2

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"

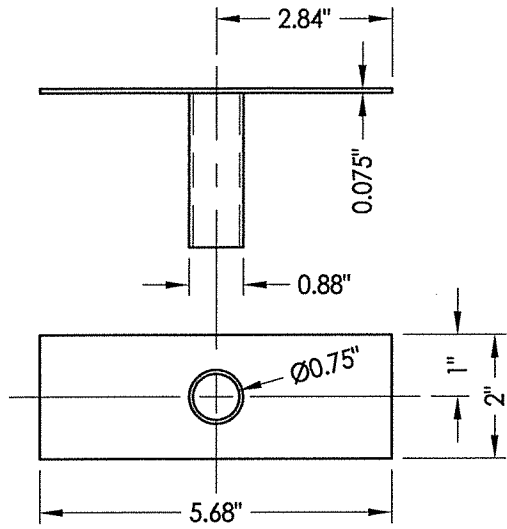
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October 6, 2020
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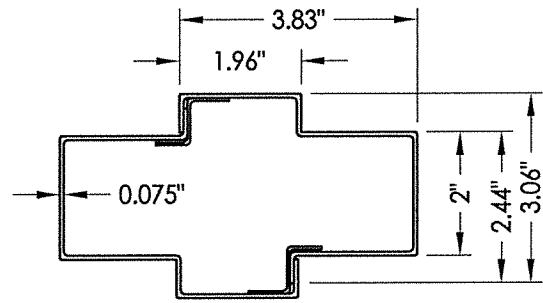


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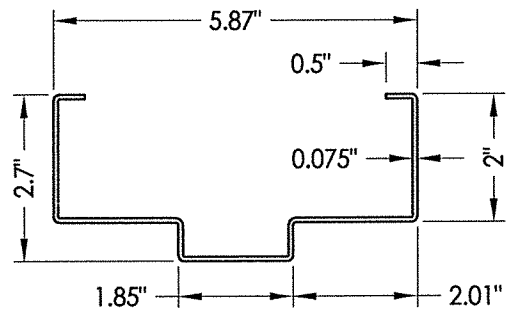
R:\Clients\Megamet PERMANENT\A - Florida Product Approvals\FL-16494\C - Drawings\FL-16494 (2020)\FL-16494.1-13.dwg, 6.6



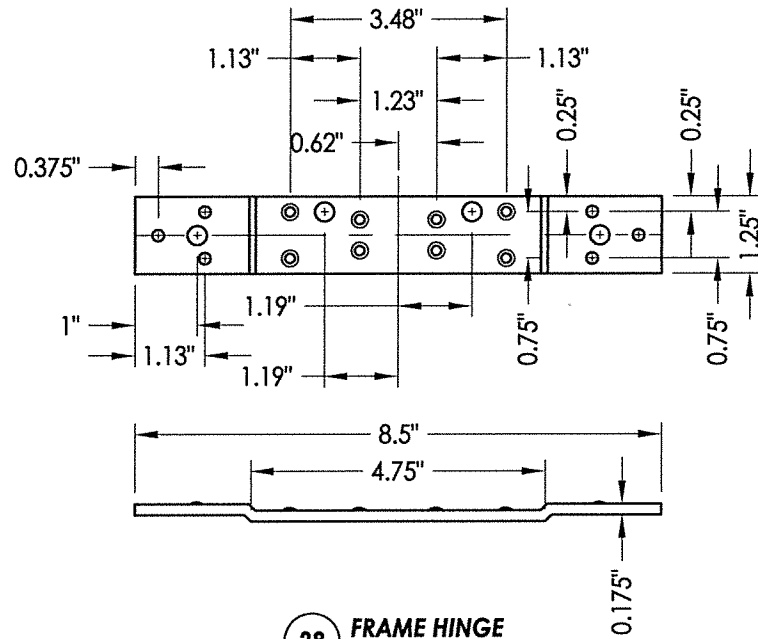
9 TUBE ANCHOR



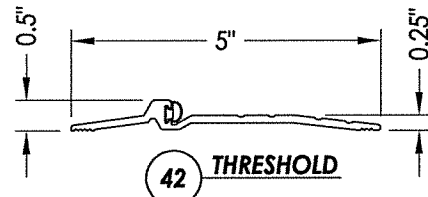
15 MULLION



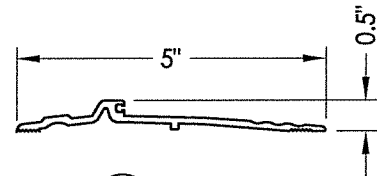
25 HOLLOW METAL FRAME



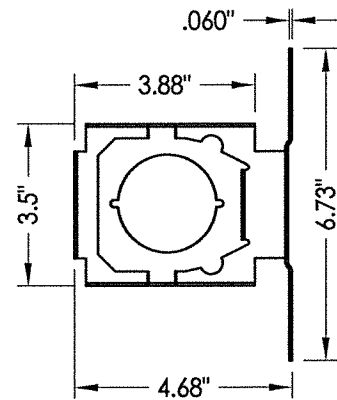
28 FRAME HINGE Reinforcement



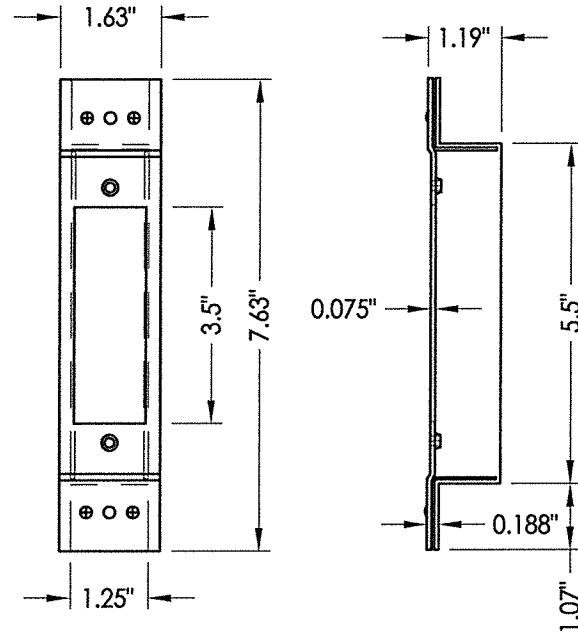
42 THRESHOLD



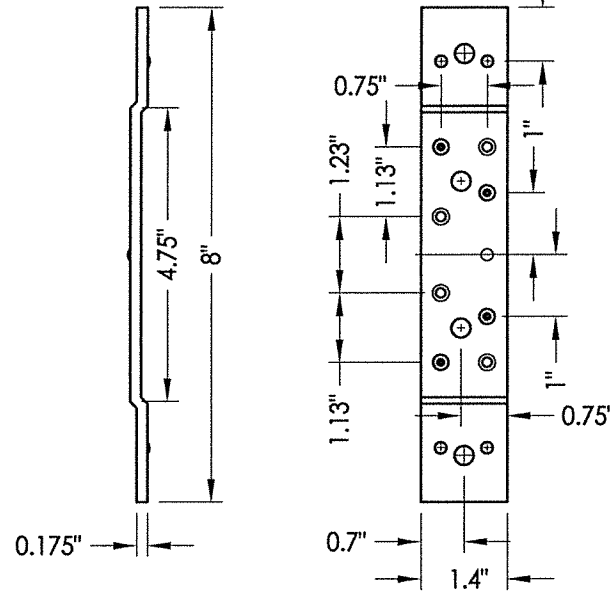
40 THRESHOLD



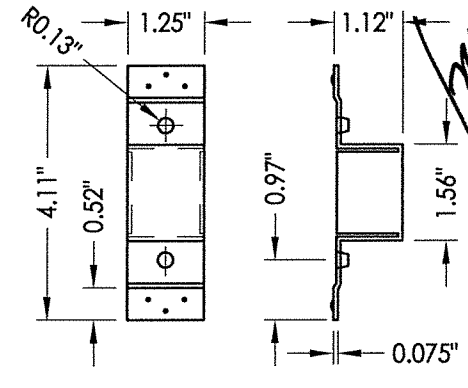
5 LOCK BOX REINFORCEMENT



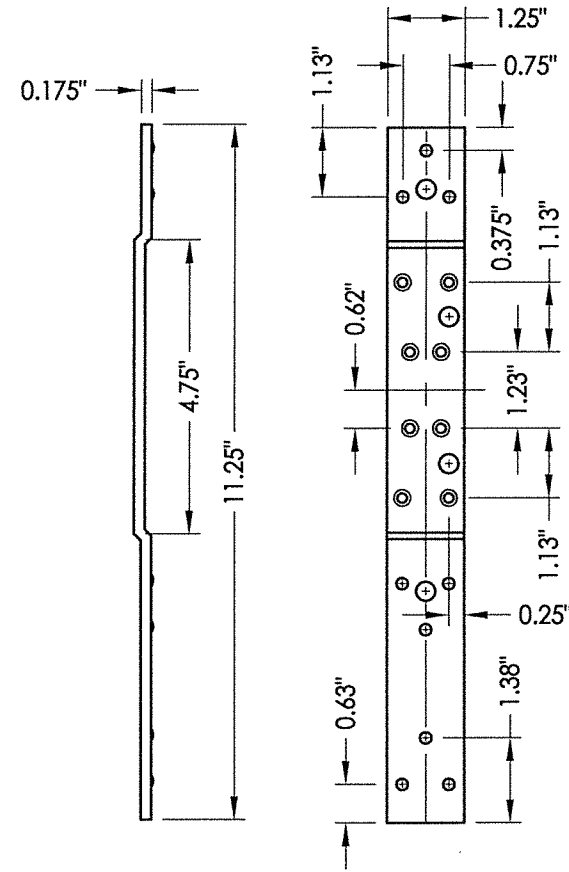
27 LATCH STRIKE REINFORCEMENT



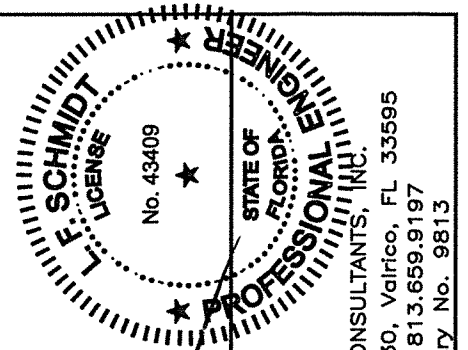
23 STANDARD (SHORT) DOOR HINGE Reinforcement middle and bottom hinge



19 DEADBOLT STRIKE REINFORCEMENT



22 STANDARD (LONG) DOOR HINGE Reinforcement top hinge



October 6, 2020

Documents Prepared By:
Lyndon F. Schmidt
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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:
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.

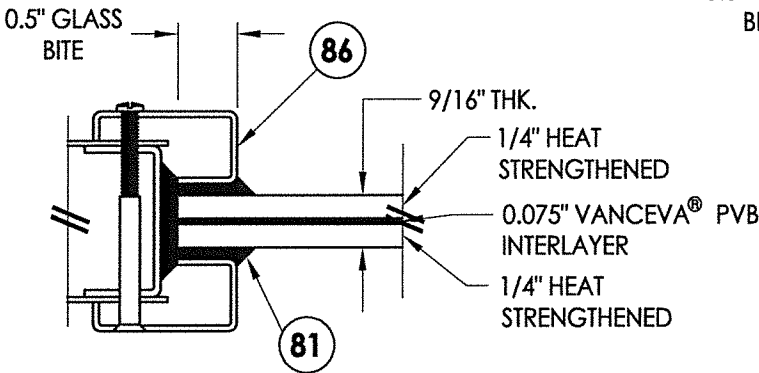
DWG. BY: JK

CHK. BY: LFS

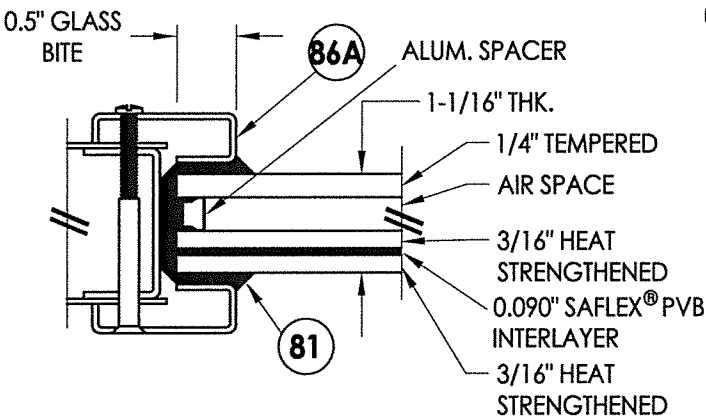
DRAWING NO.: FL-16494.6

SHEET 6 OF 7

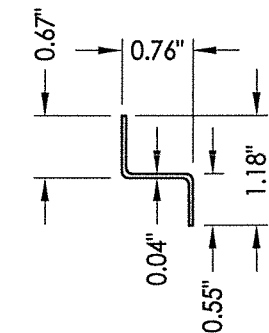
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
H	1/4" x 1-3/4" ITW PFH CONCRETE SCREW	STEEL
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL
M	3/8" X 5" TAPPER CONCRETE SCREW 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
12	MULLION Z BRACKET	STEEL
15	MULLION	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
42	THRESHOLD PEMKO #2005V	ALUMINUM
45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
46	#6 X 3/4" PHILLIPS HEAD SMS	STEEL
51	L-CHANNEL FIXED GLASS STOP	STEEL
52	#8 X .5" HH SELF DRILLING SCREW	STEEL
53	U-CHANNEL FIXED GLASS STOP	STEEL
54	#8 X 1.25" PFH SHEET METAL SCREW	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



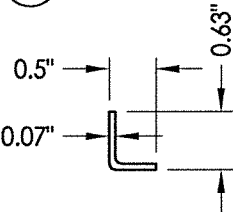
G1 GLAZING DETAIL



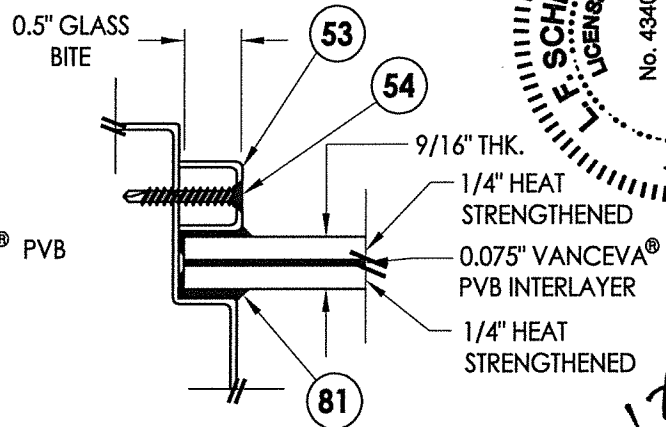
G2 GLAZING DETAIL



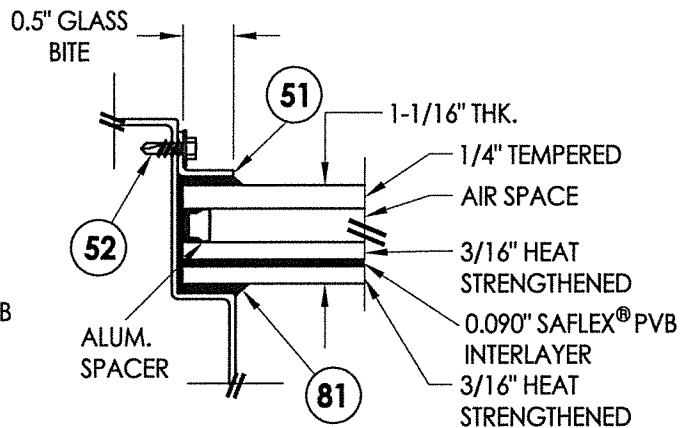
12 MULLION Z BRACKET



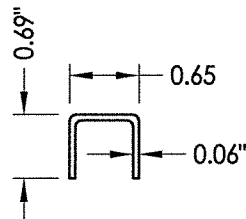
51 FIXED GLASS STOP



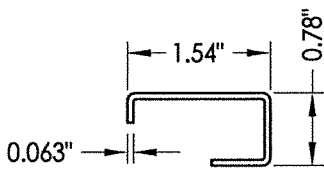
G3 GLAZING DETAIL



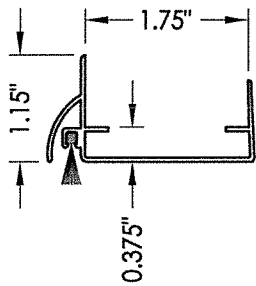
G4 GLAZING DETAIL



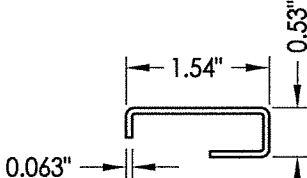
53 FIXED GLASS STOP



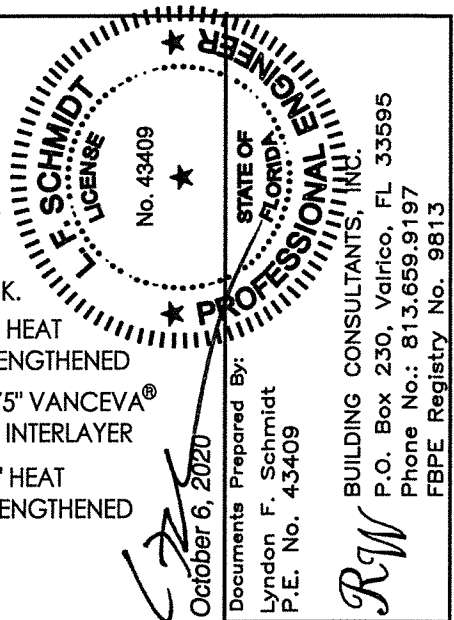
86 GLASS STOP



45 DOOR SWEEP



86A GLASS STOP



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

PART OR ASSEMBLY: BILL OF MATERIALS, GLAZING DETAILS & COMPONENTS

REVISIONS			
NO.	DATE	BY	
3	10/05/20	LFS	UPDATE TO 7TH ED. (2020) FBC
2	10/16/17	LFS	UPDATE TO 6TH ED. (2017) FBC
1	1/06/15	LFS	UPDATE TO 5th ED. (2014) FBC

DATE: 7/17/13
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-16494.6
SHEET 7 OF 7