

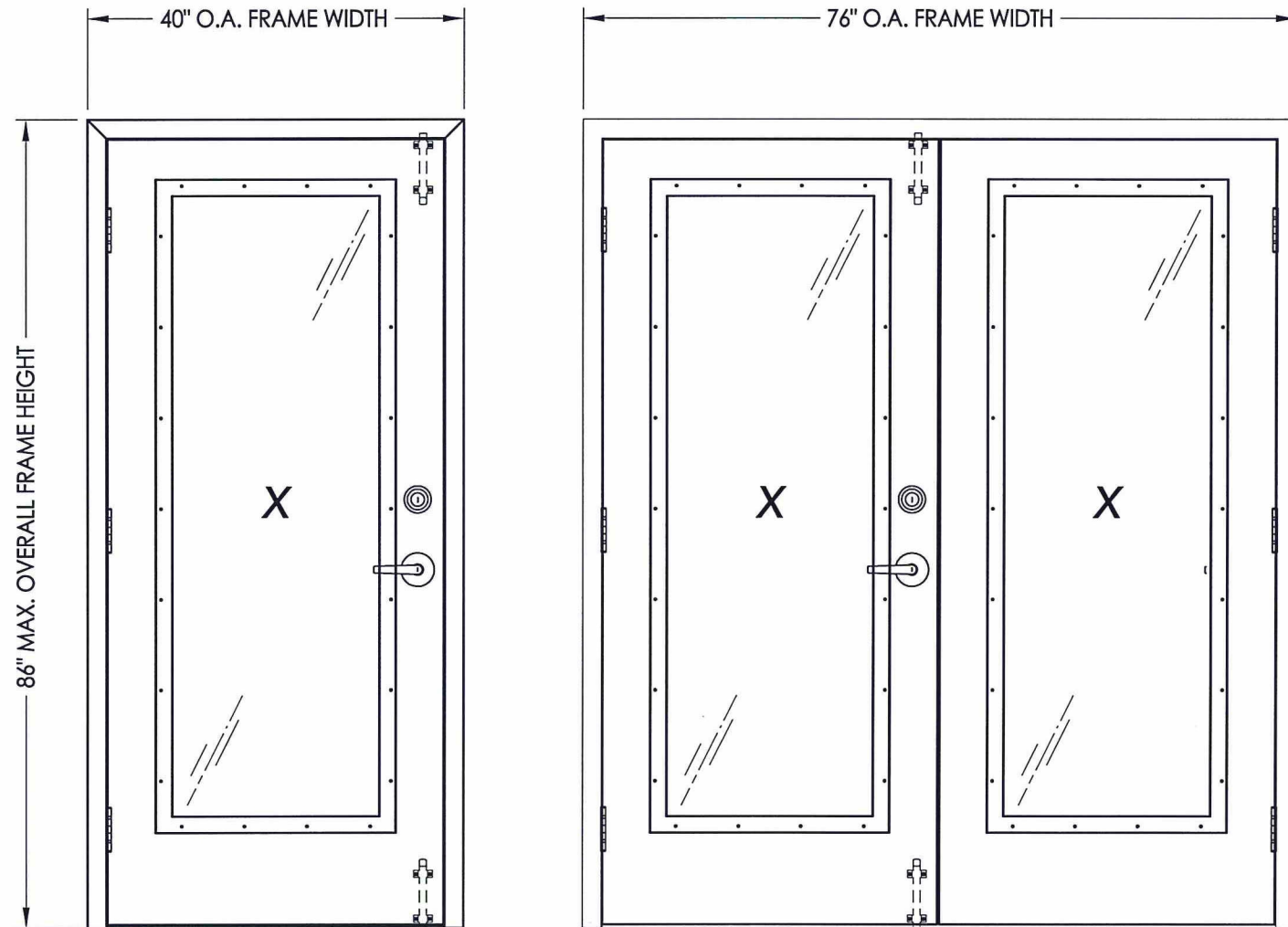
STEEL GLAZED DOOR OUTSWING "IMPACT"

GENERAL NOTES

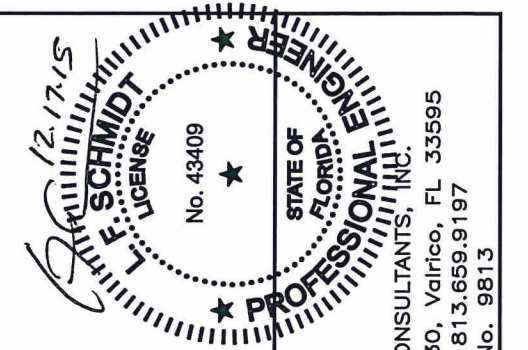
- This product has been evaluated and is in compliance with the 5th Edition (2014) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- When used in areas requiring wind borne debris protection, this product complies with Section 1609.1.2 of the FBC and does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E1996 and Section 1609.1.2.2 of the FBC.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

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1	Typical elevations, design pressures, & general notes
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3	Elevations
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7	Anchoring details
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9	Anchoring details
10	Components
11	Bill of materials and components



MAX. OVERALL DIMENSION	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
40.0" X 86.0"	+65.0	-70.0
76.0" X 86.0"	+55.0	-55.0



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

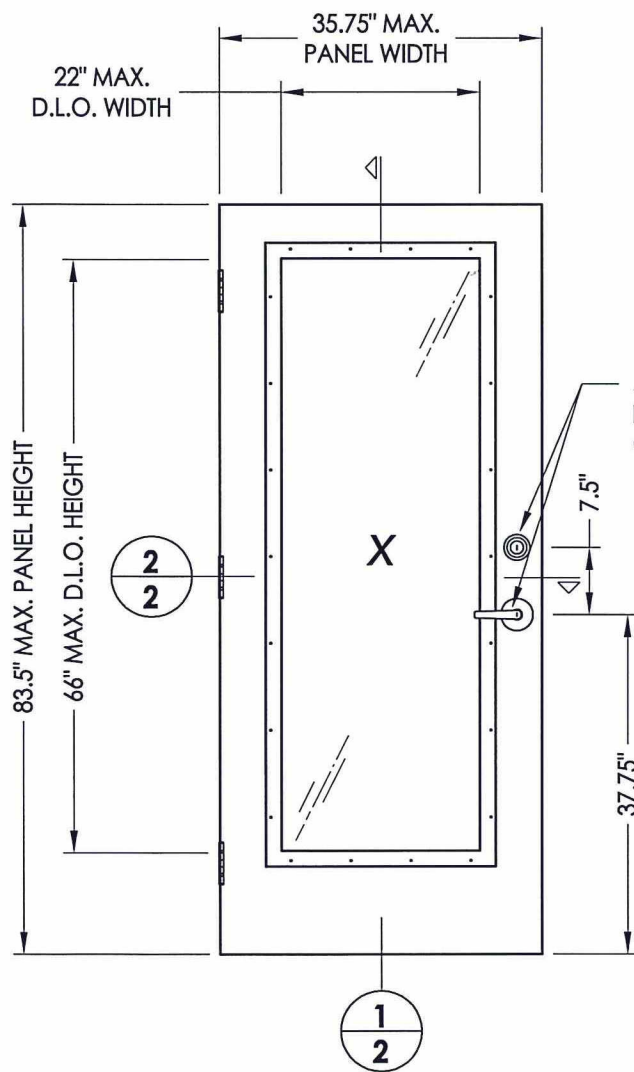
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT: HMF EXPRESS

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

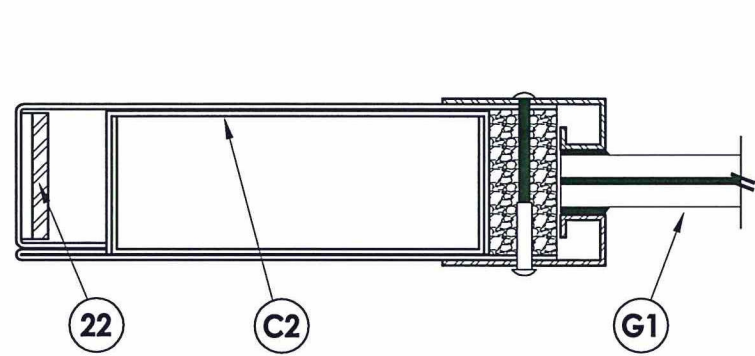
NO.	DATE	BY	REVISIONS

DATE: 12/11/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-18506.9
SHEET 1 OF 11

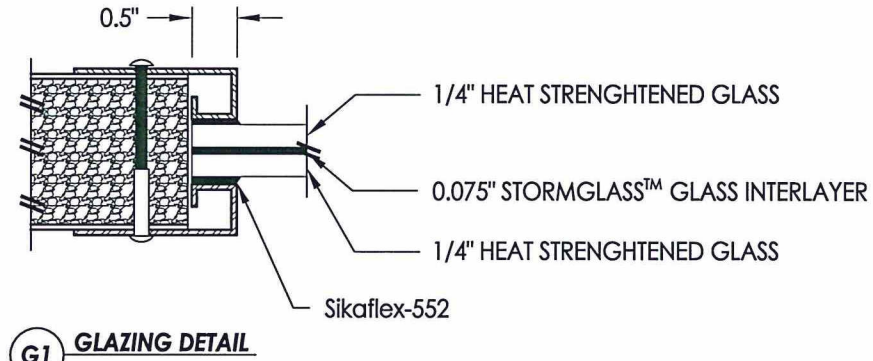
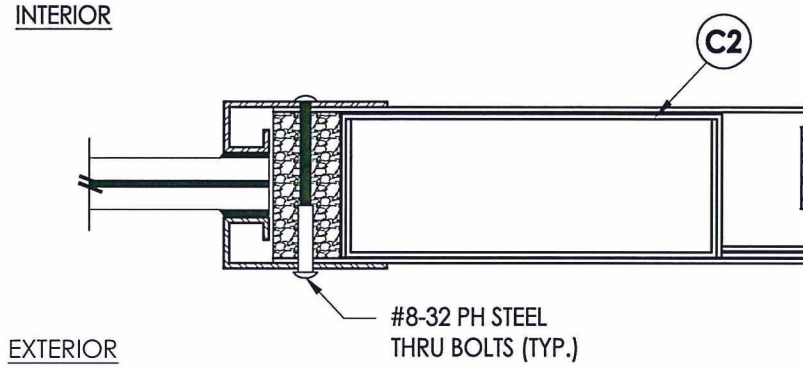


1 OPAQUE STEEL DOOR PANEL

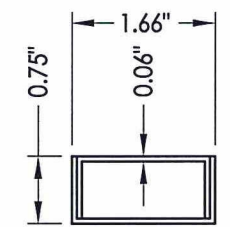
STEEL DOOR SKIN: 16 GA. A60 GALV. (min. 0.058" THK.)
 CORE MATERIAL: EPS Foam (Polystyrene - 1.0 PCF Min. Density)



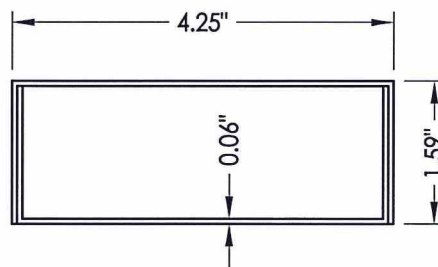
2 HORIZONTAL CROSS SECTION
2 Door panel



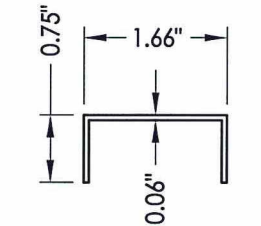
G1 GLAZING DETAIL



B2 TOP CHANNEL
 A60 Galv. Steel

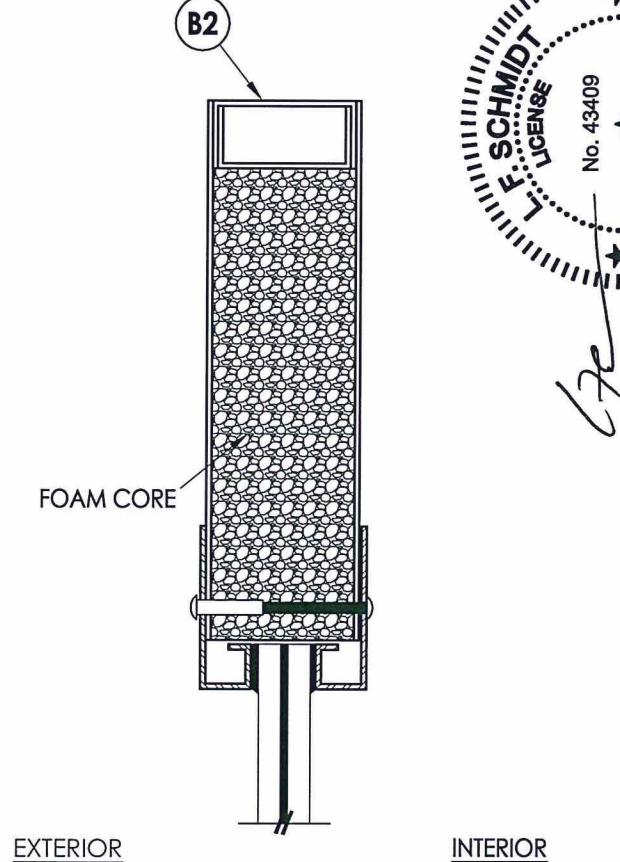


C2 BOX CHANNEL REINFORCEMENT
 A60 Galv. Steel

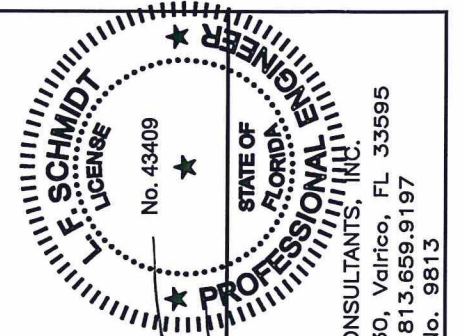


E2 BOTTOM CHANNEL
 A60 Galv. Steel

HARDWARE CHART	
MANUFACTURER	MODEL
Schlage	LOCK SET: D-SERIES



1 VERTICAL CROSS SECTION
2 Door panel

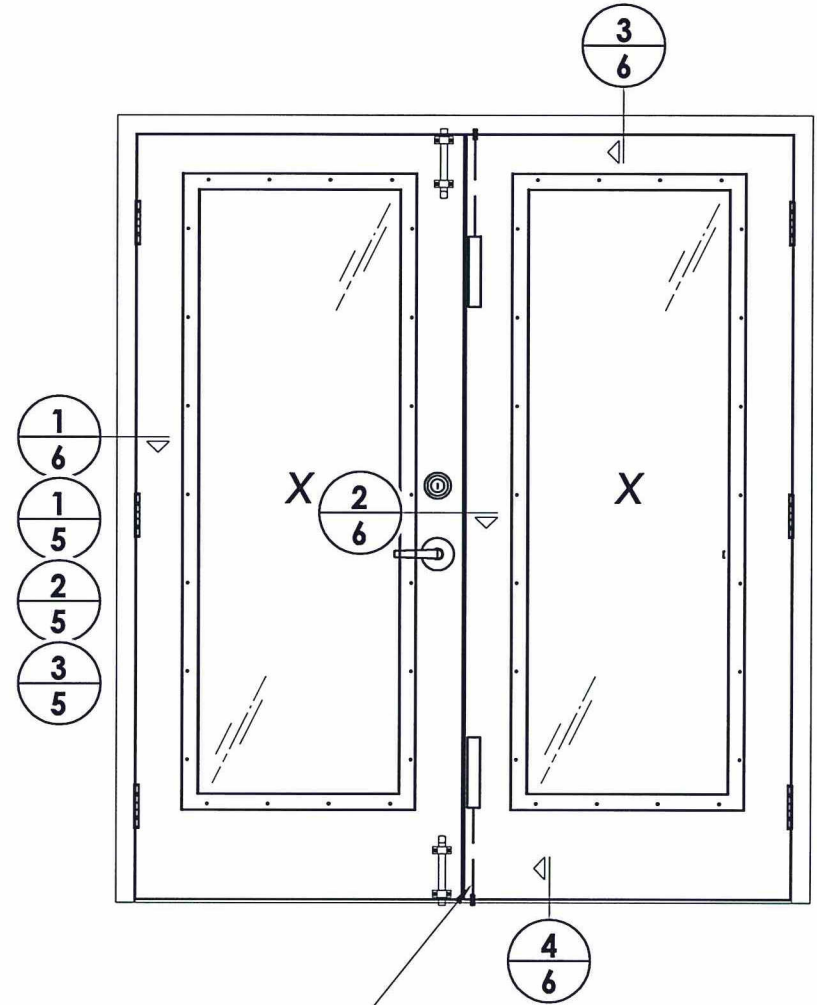
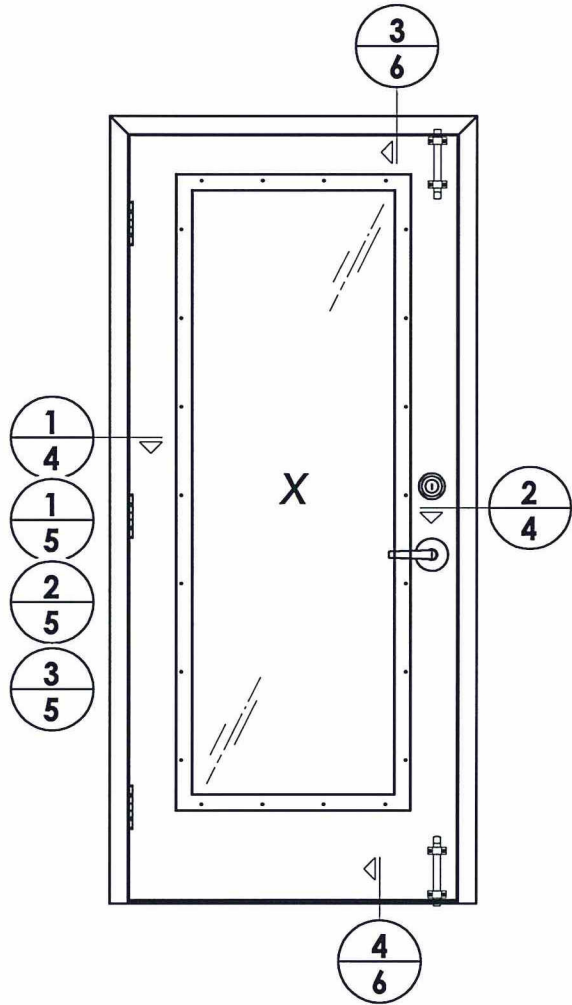


Documents Prepared By:
 Lyndon F. Schmidt
 P.E. No. 43409
 R.W. BUILDING CONSULTANTS, INC.
 P.O. Box 230, Valrico, FL 33595
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 FBPE C.A. No. 9813

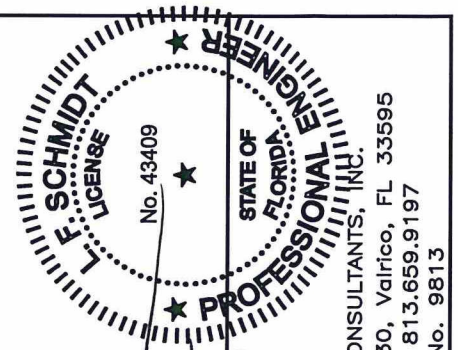
NO.	DATE	BY

REVISIONS

PRODUCT:	HMF EXPRESS
PART OR ASSEMBLY:	DOOR PANEL DETAILS
DATE:	12/11/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-18506.9
SHEET	2 OF 11



ROCKWELL 555 FLUSH BOLT @ head and sill
w/ 3/4" throw. Mortise strike plates (15/16" x 2-1/4")
attached to frame head and aluminum threshold
w/ (2) #8 comb. ws/sms each.



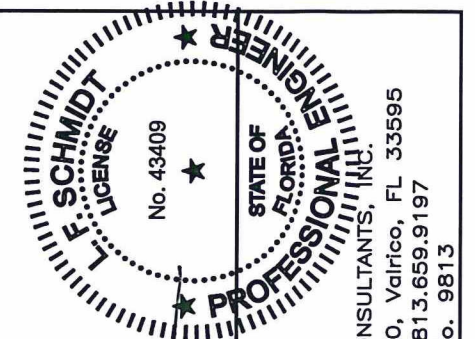
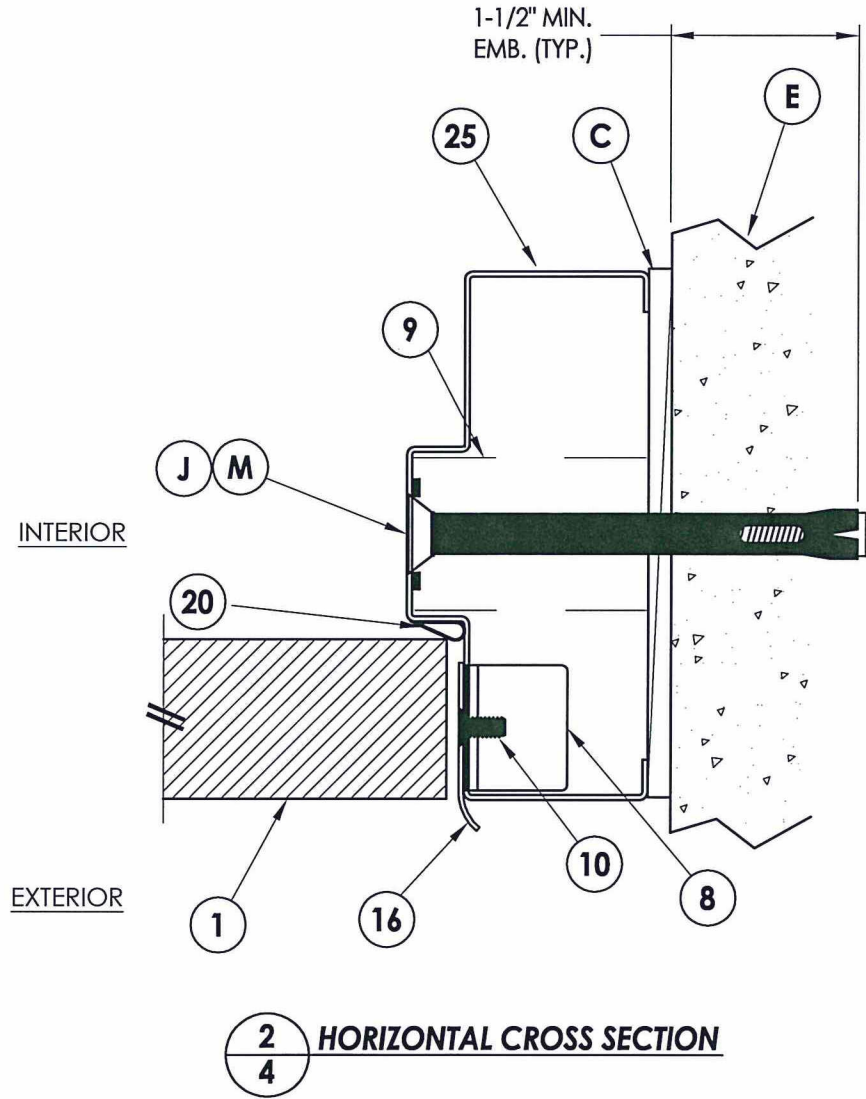
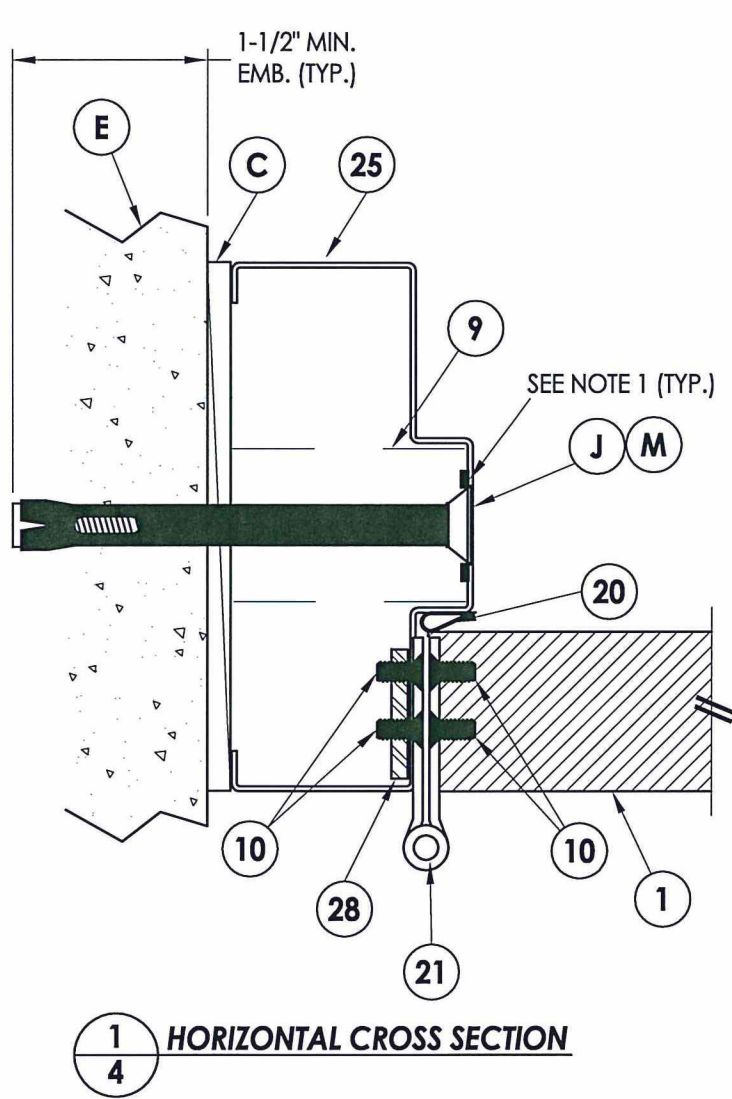
LFS
12.17.15
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
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PRODUCT: HMF EXPRESS	
PART OR ASSEMBLY: ELEVATIONS	
NO.	DATE
REVISIONS	
NO.	DATE
DATE: 12/11/15	
SCALE: N.T.S.	
DWG. BY: JK	
CHK. BY: LFS	
DRAWING NO.: FL-18506.9	
SHEET 3 of 11	

NOTES:

- 1. Spot weld anchor bracket to frame:
2 welds per flange (4 total per bracket).



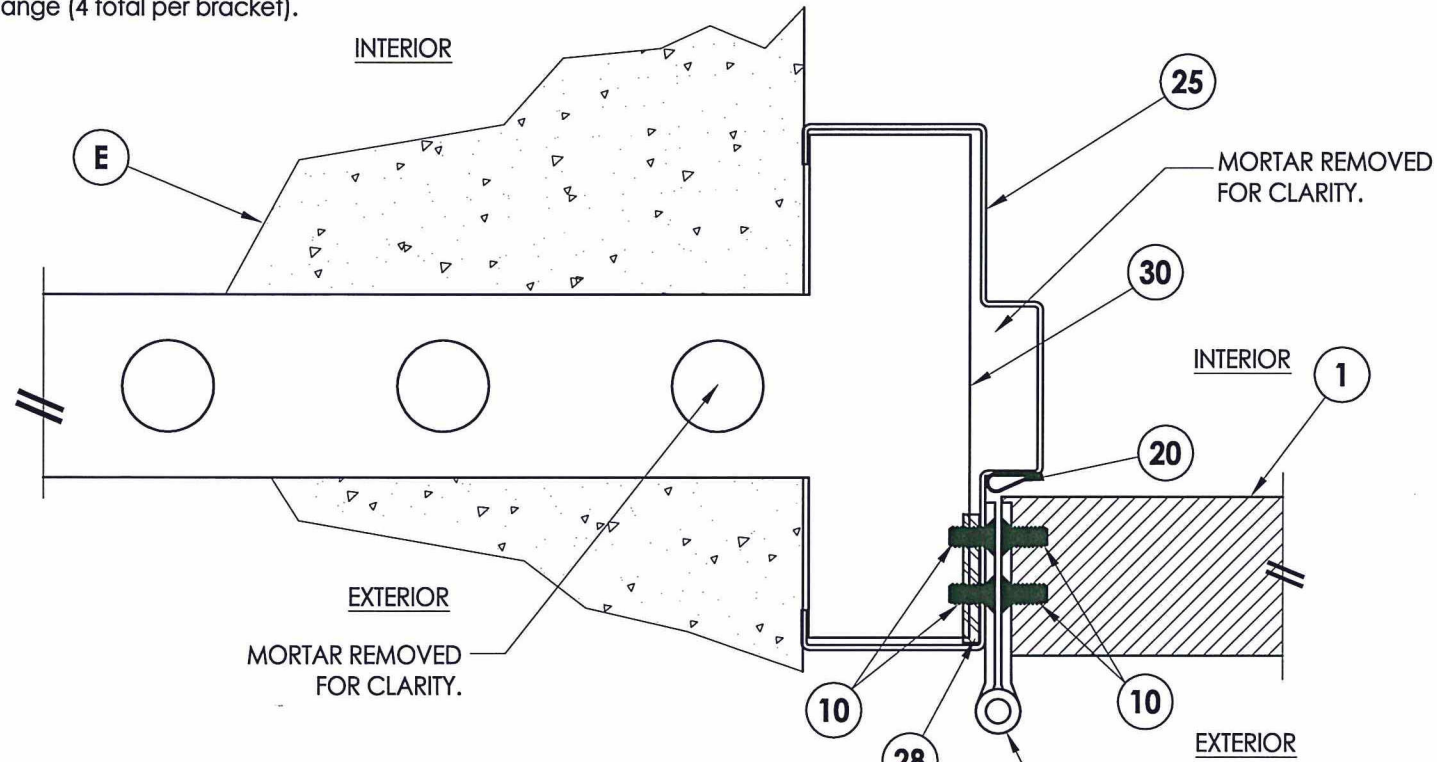
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Lyndon F. Schmidt
P.E. No. 43409

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P.O. Box 230, Valrico, FL 33595
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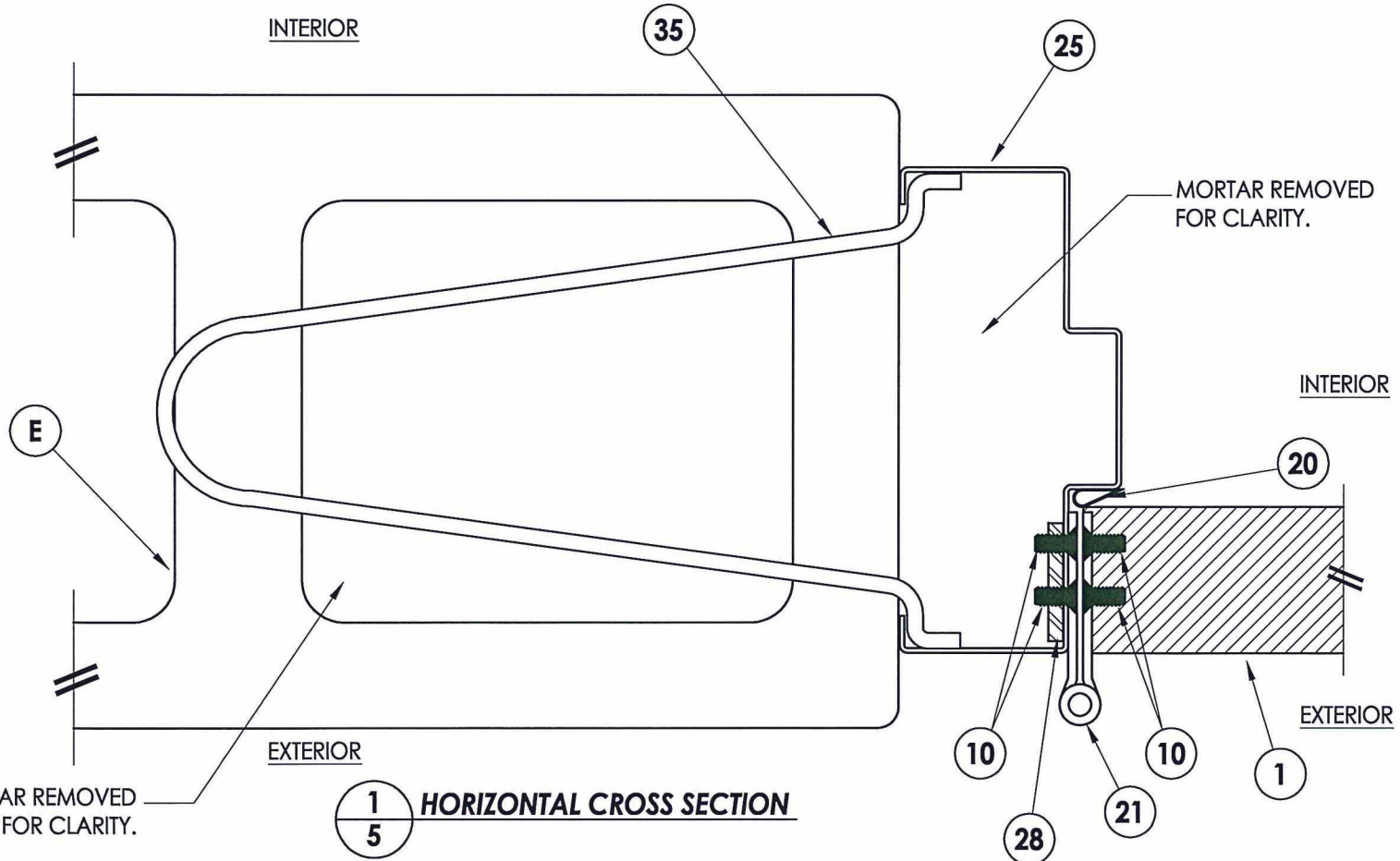
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PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS	
NO.	DATE	BY
REVISIONS		
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DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-18506.8	
SHEET	4	OF 11

NOTES:

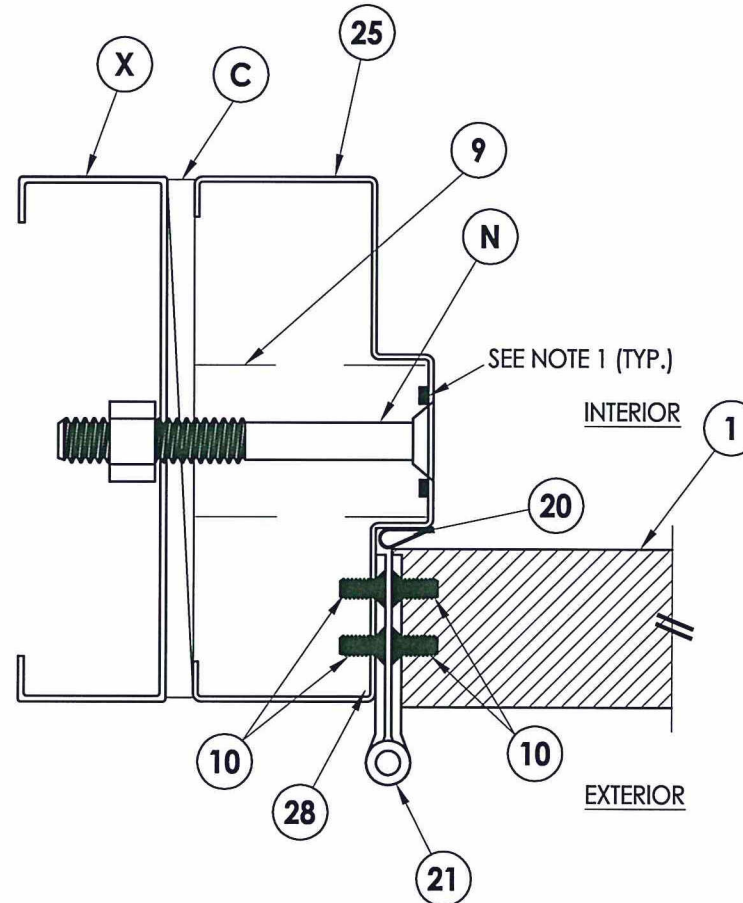
- 1. Spot weld anchor bracket to frame:
2 welds per flange (4 total per bracket).



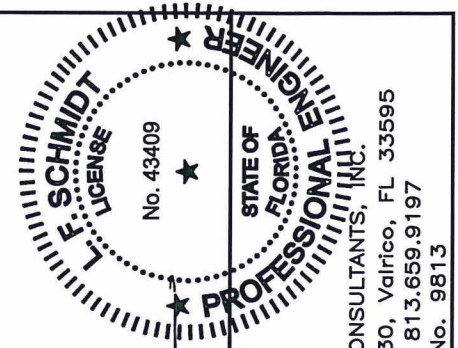
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5 HORIZONTAL CROSS SECTION



1
5 HORIZONTAL CROSS SECTION



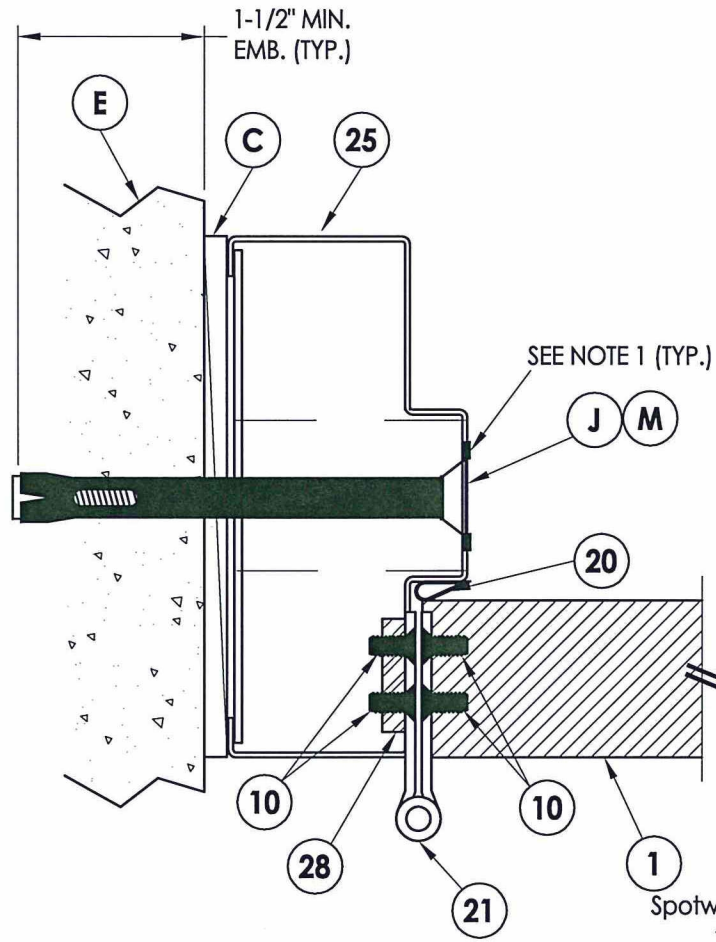
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5 HORIZONTAL CROSS SECTION
Steel stud construction



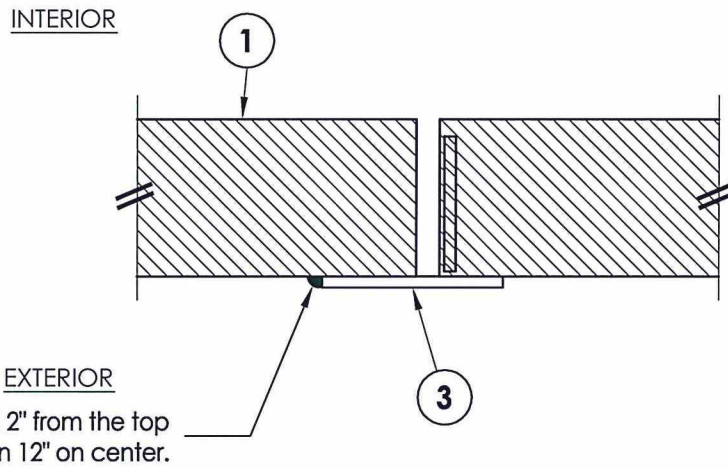
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 4-3409
12.17.15
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:	HM EXPRESS	
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS	
NO.	DATE	BY
		REVISIONS
DATE: 12/11/15		
SCALE: N.T.S.		
DWG. BY: JK		
CHK. BY: LFS		
DRAWING NO.: FL-18506.9		
SHEET 5 OF 11		

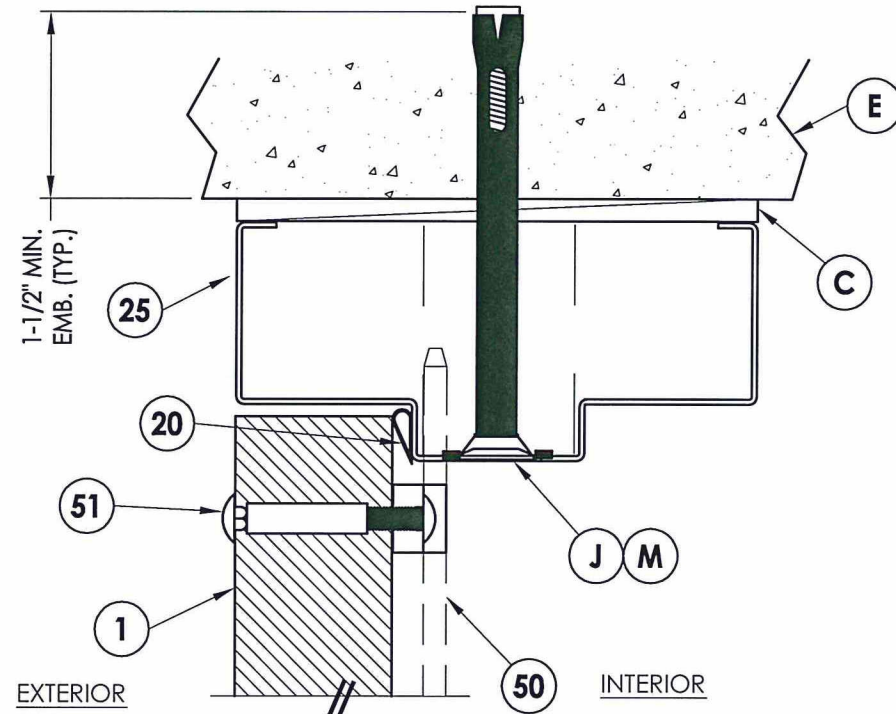
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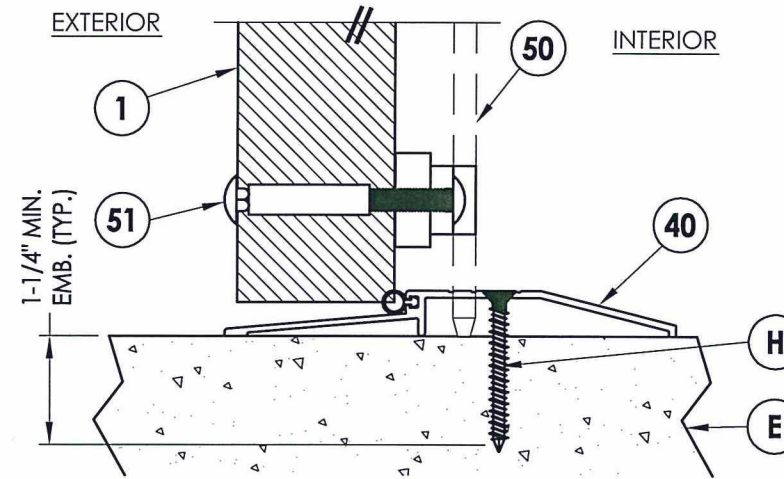
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6 HORIZONTAL CROSS SECTION



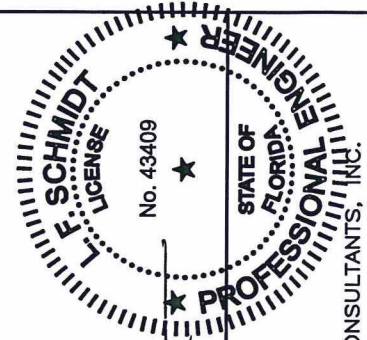
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6 HORIZONTAL CROSS SECTION



3
6 VERTICAL CROSS SECTION



4
6 VERTICAL CROSS SECTION



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 C.A. No. 9813

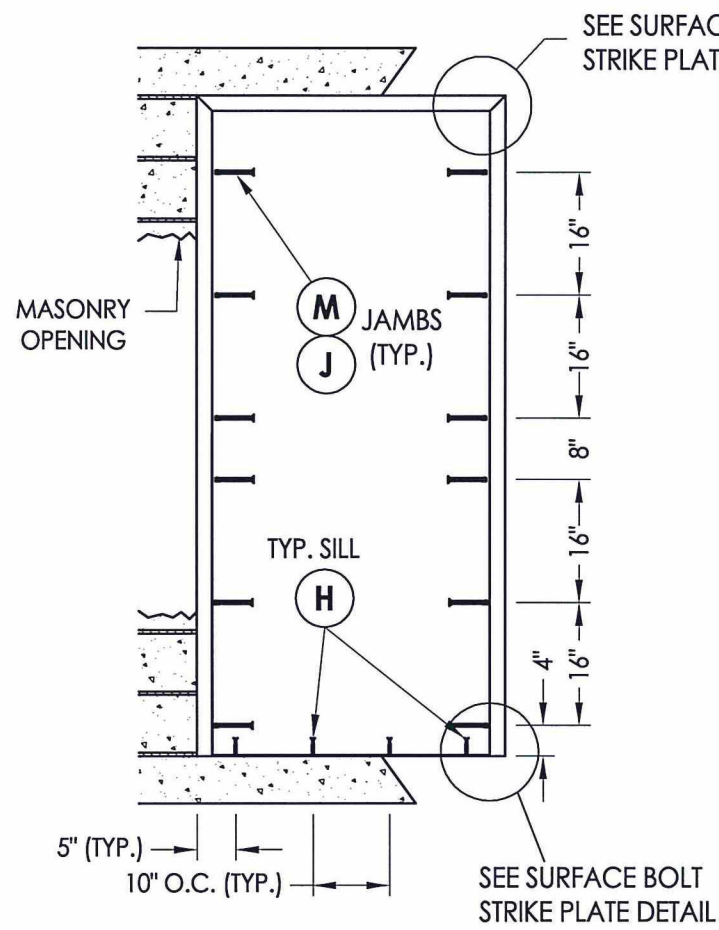
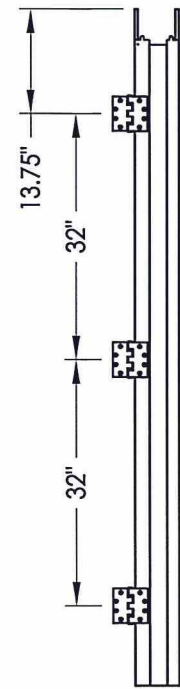
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PART OR ASSEMBLY:	HORIZONTAL & VERTICAL CROSS SECTIONS

NO.	DATE	BY	REVISIONS

DATE:	12/11/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-18506.9
SHEET	6 OF 11

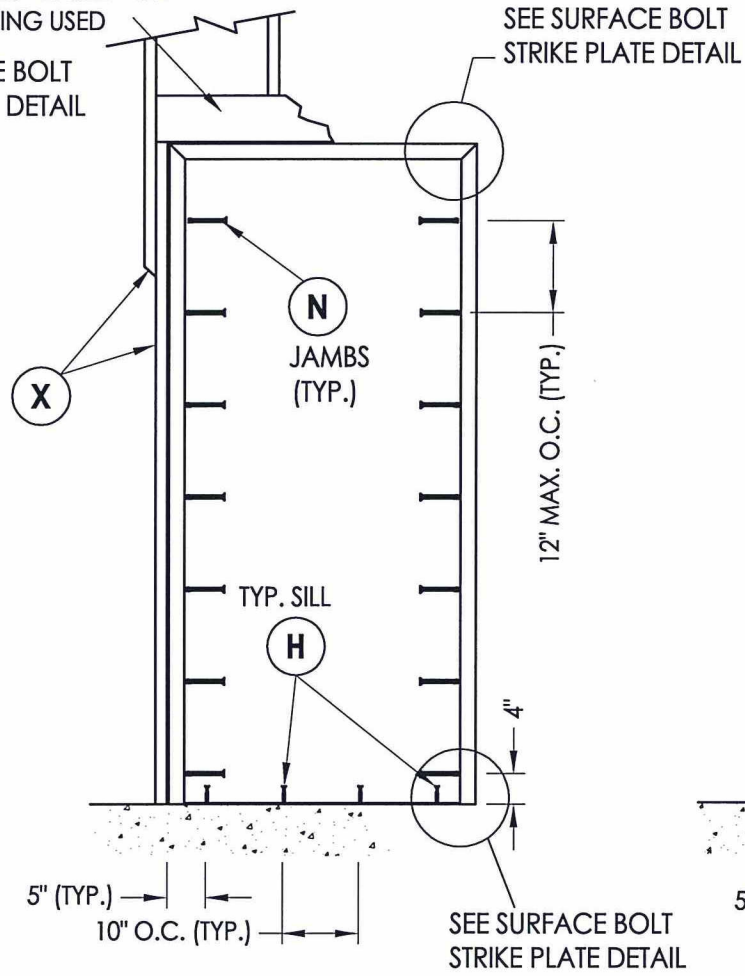
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THE ENGINEER OR ARCHITECT OF RECORD TO DETERMINE FRAMING REQUIREMENTS BASED ON WIND LOADS AND THE CLADDING BEING USED

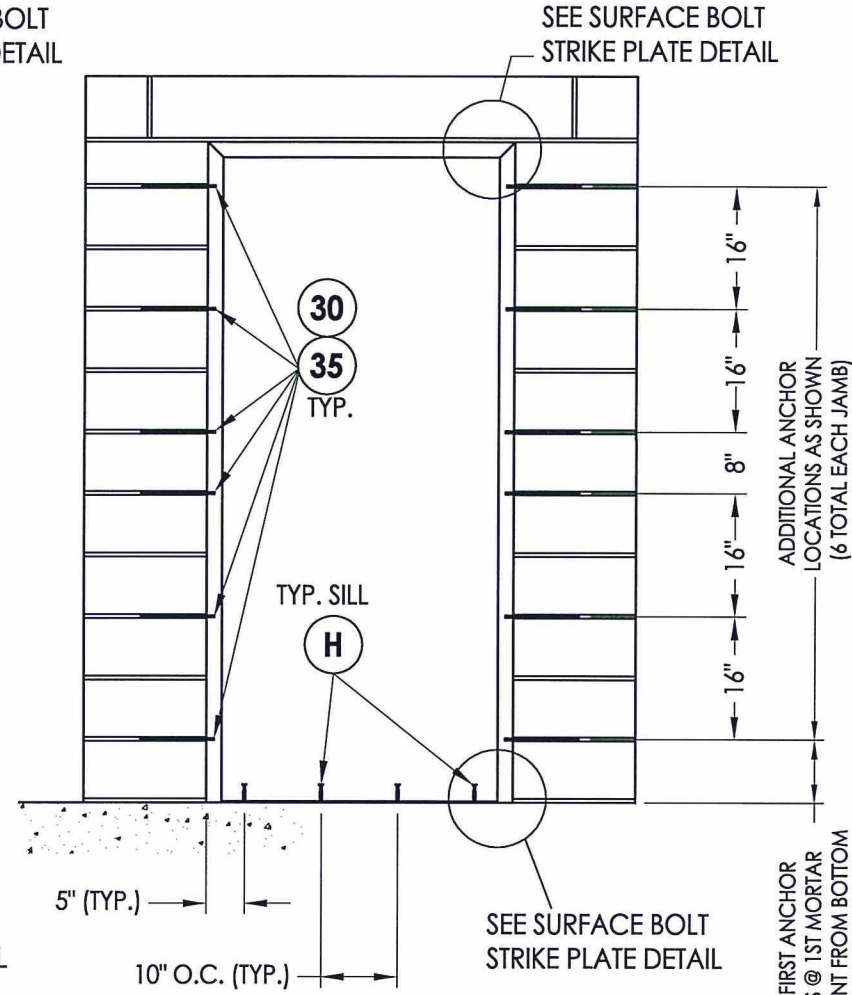


HINGE JAMB

FRAME ANCHORING
Masonry Construction
Concrete Anchors

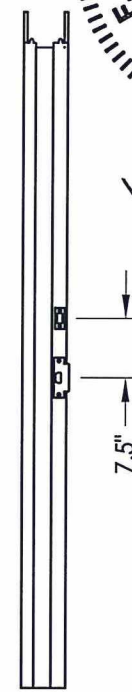


FRAME ANCHORING
Steel Stud



FRAME ANCHORING
Masonry Construction
Concrete Anchors

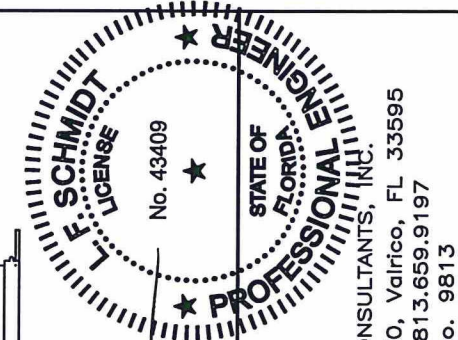
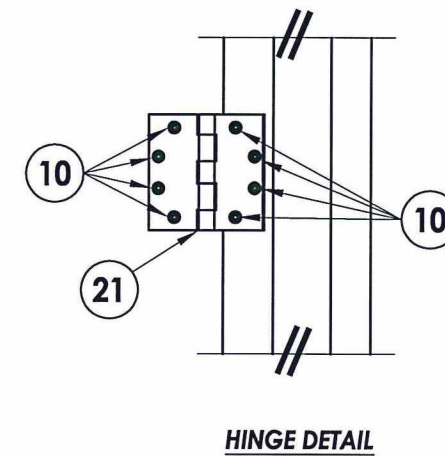
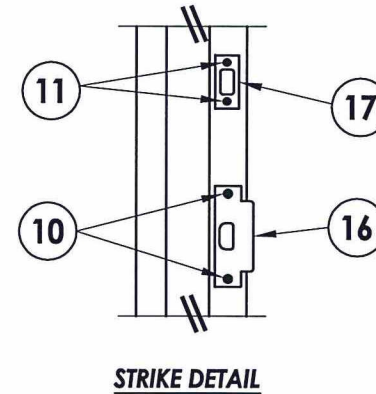
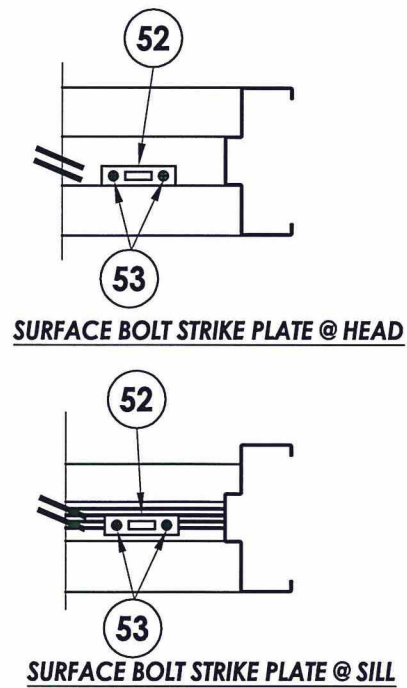
STRIKE JAMB



CONCRETE ANCHOR NOTES:

- Concrete screw locations may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." 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.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRACON® (ELCO) CRETE-FLEX® (ELCO) TAPPER+® (POWERS)	2-1/2"	1-1/4"
	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"



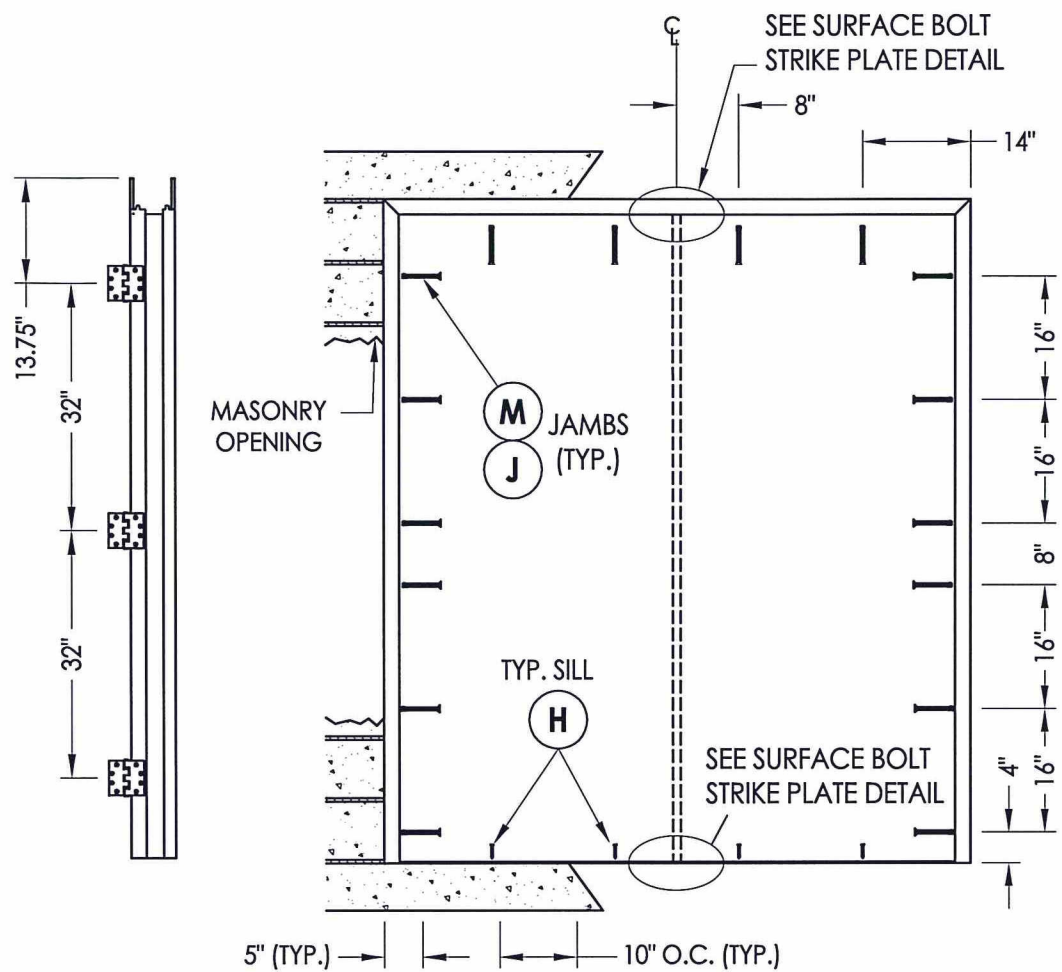
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT: HMF EXPRESS
PART OR ASSEMBLY: ANCHORING DETAILS

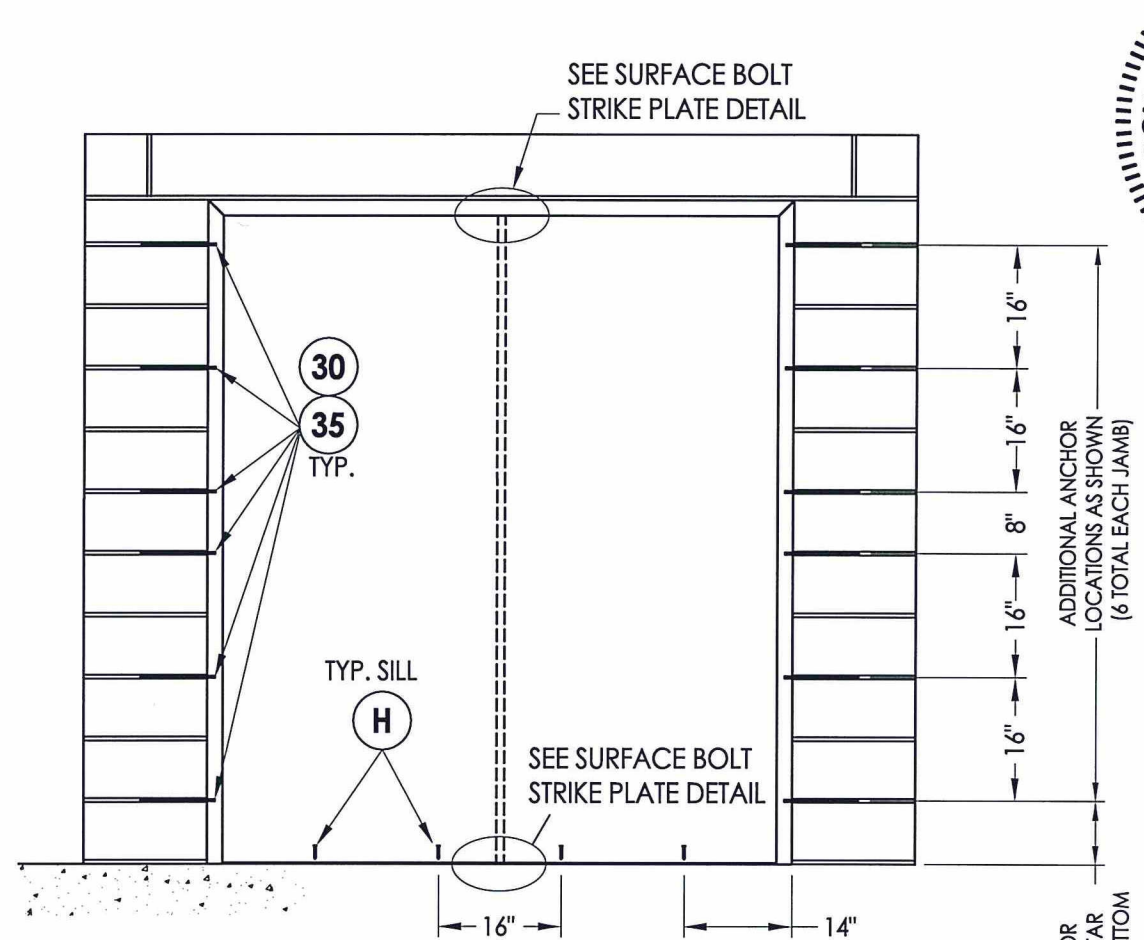
NO.	DATE	BY	REVISIONS

DATE: 12/11/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-18506.9
SHEET 7 OF 11

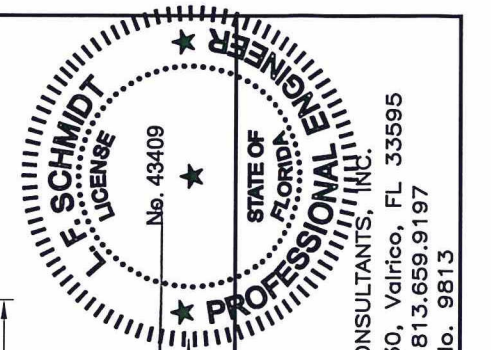


HINGE JAMB

FRAME ANCHORING
 Shown w/ 4" Head (2" Head similar)
 Masonry Construction
 Concrete Anchors



FRAME ANCHORING
 Shown w/ 4" Head (2" Head similar)
 Masonry Construction
 Masonry Anchors



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

RW BUILDING CONSULTANTS, INC.
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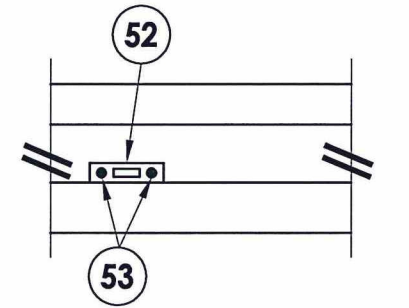
PRODUCT:	HMF EXPRESS
PART OR ASSEMBLY:	ANCHORING DETAILS

NO.	DATE	BY	REVISIONS

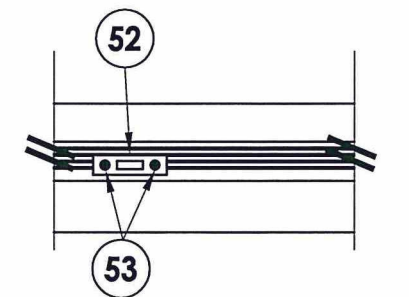
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- Concrete anchor table:

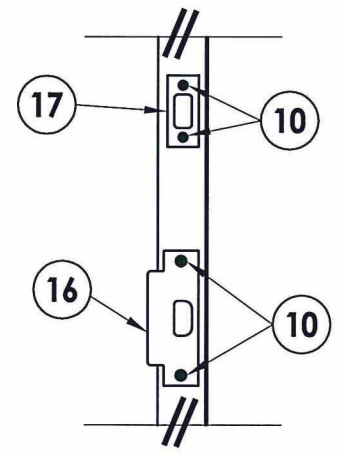
ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRACON® (ELCO) CRETE-FLEX® (ELCO) TAPPER+® (POWERS)	2-1/2"	1-1/4"
	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"



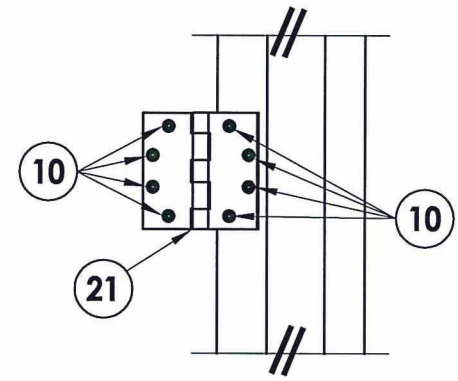
SURFACE BOLT STRIKE PLATE @ HEAD



SURFACE BOLT STRIKE PLATE @ SILL

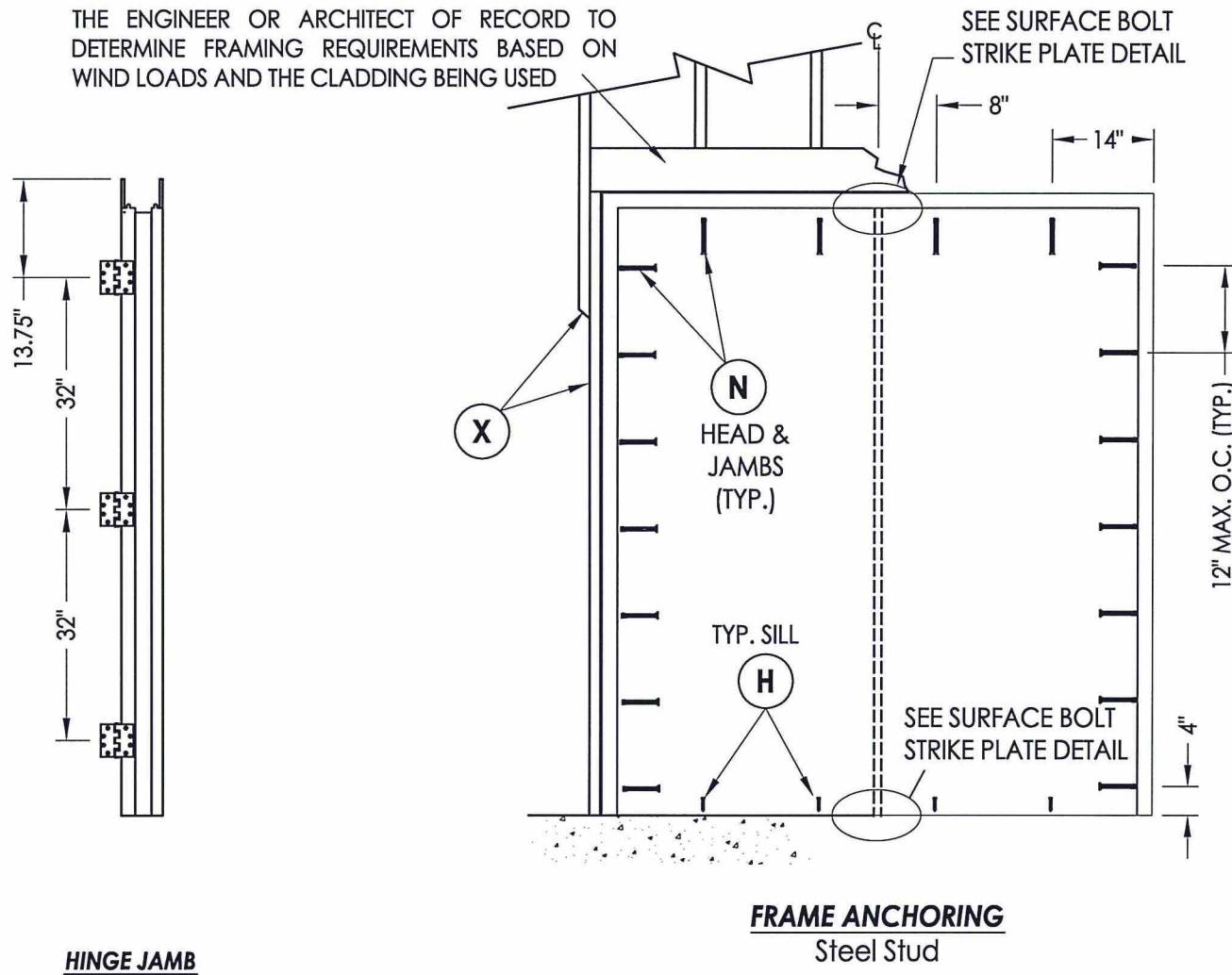


STRIKE DETAIL



HINGE DETAIL

DATE:	12/11/15
SCALE:	N.T.S.
DWG. BY:	JK
CHK. BY:	LFS
DRAWING NO.:	FL-18506.9
SHEET	8 OF 11



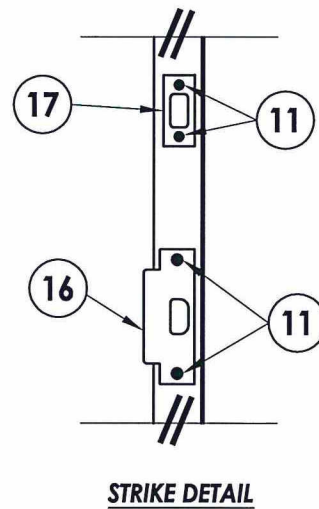
HINGE JAMB

FRAME ANCHORING
Steel Stud

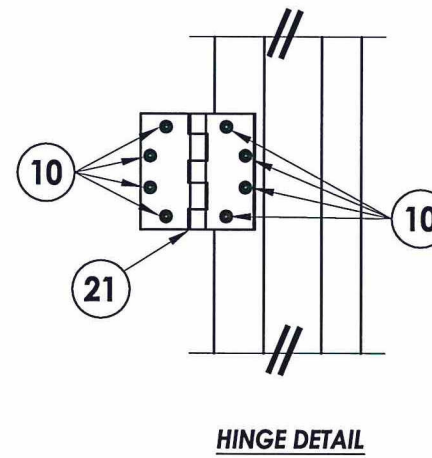
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- Concrete screw locations may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
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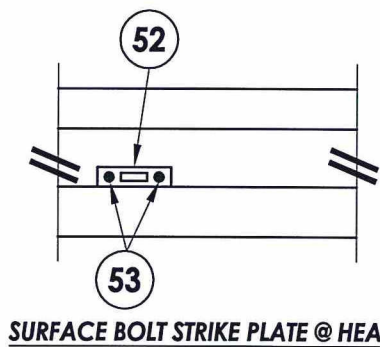
ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRACON® (ELCO) CRETE-FLEX® (ELCO) TAPPER+® (POWERS)	2-1/2"	1-1/4"



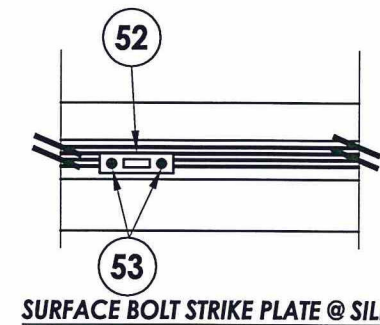
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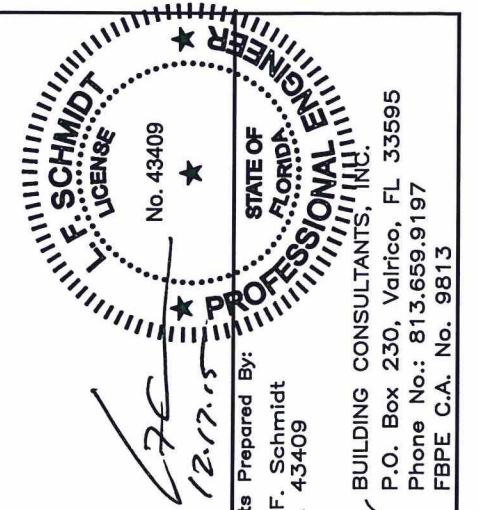
HINGE DETAIL



SURFACE BOLT STRIKE PLATE @ HEAD



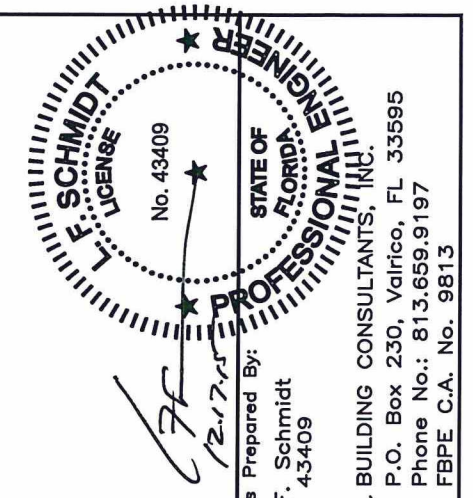
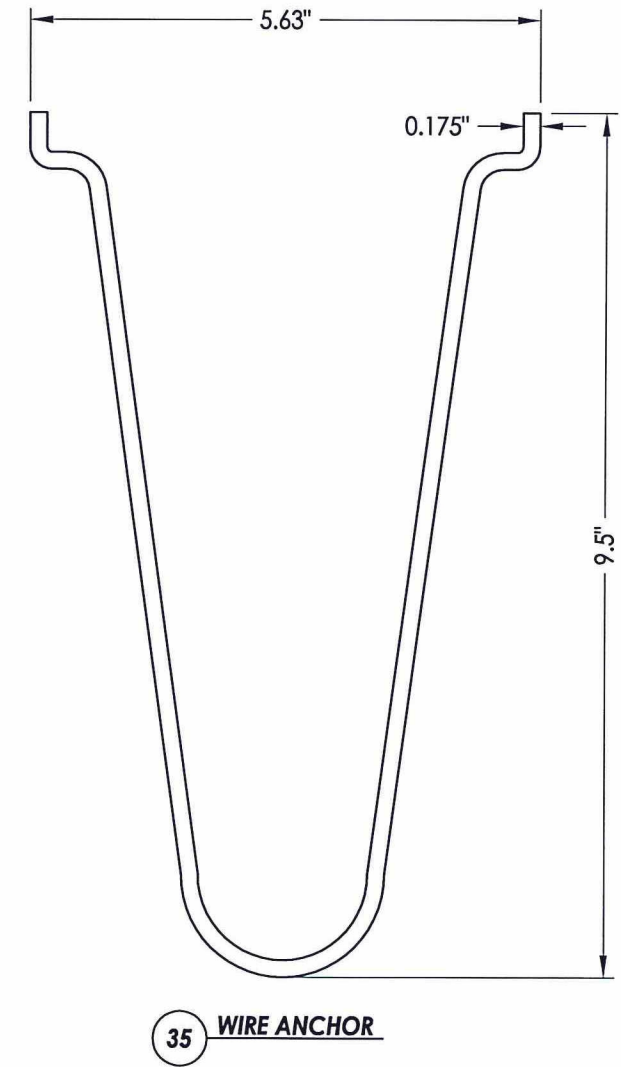
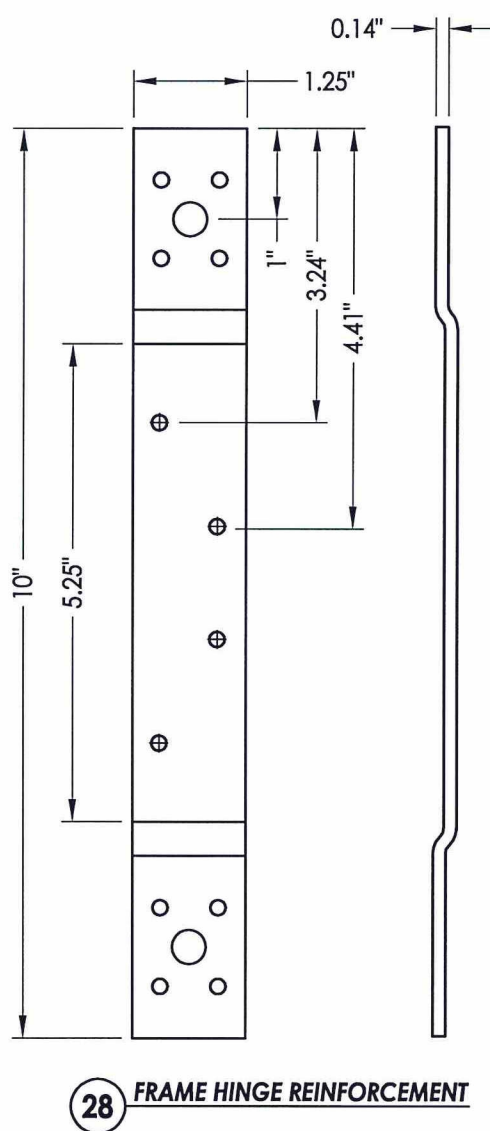
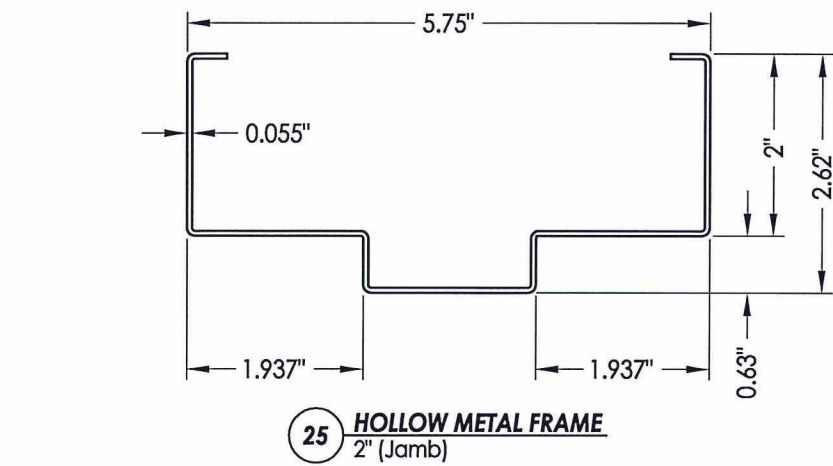
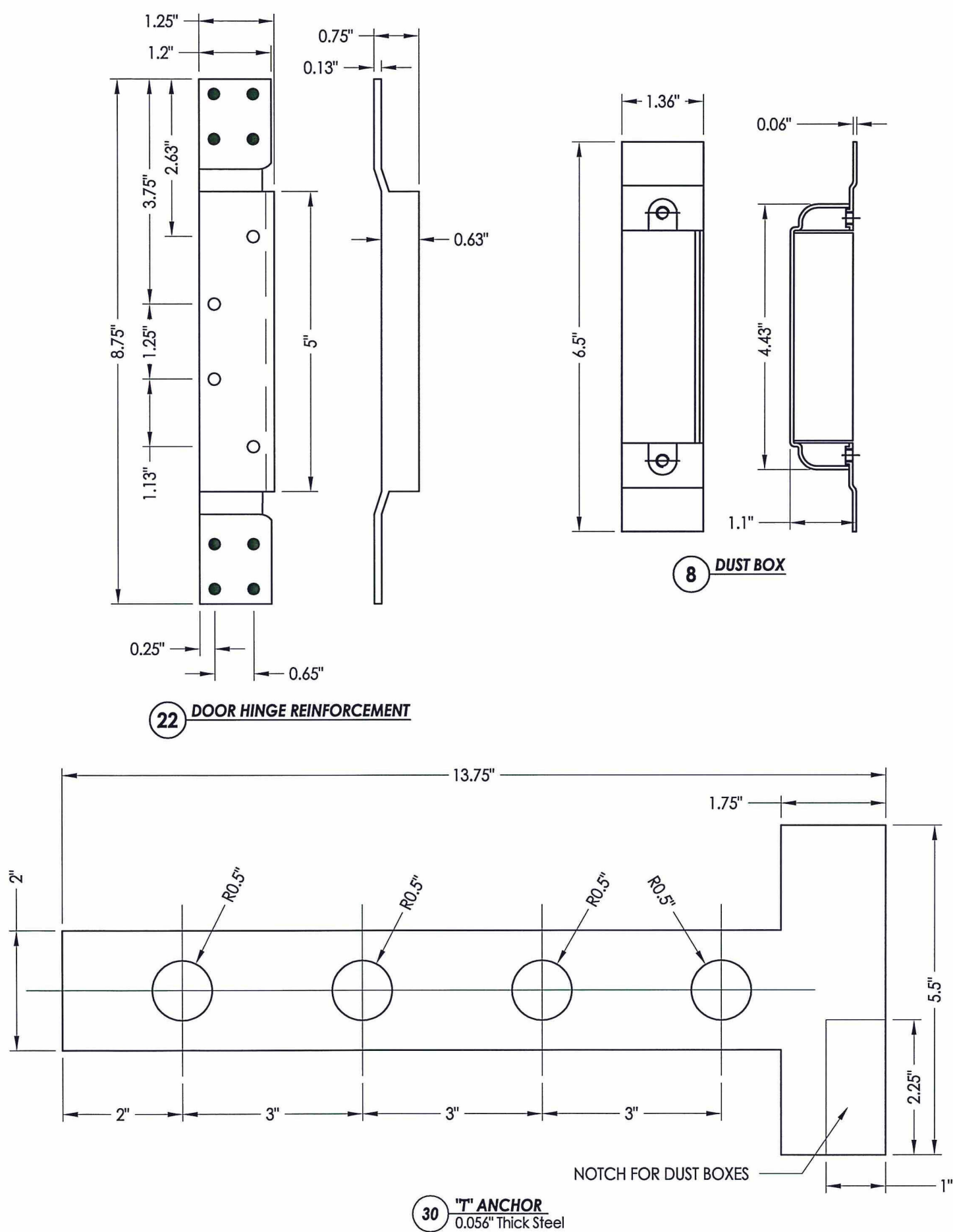
SURFACE BOLT STRIKE PLATE @ SILL



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
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PRODUCT:	HMF EXPRESS	
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NO.	DATE	BY
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DATE:	12/11/15	
SCALE:	N.T.S.	
DWG. BY:	JK	
CHK. BY:	LFS	
DRAWING NO.:	FL-18506.9	
SHEET	9	OF 11

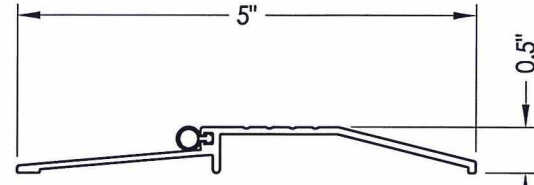


Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

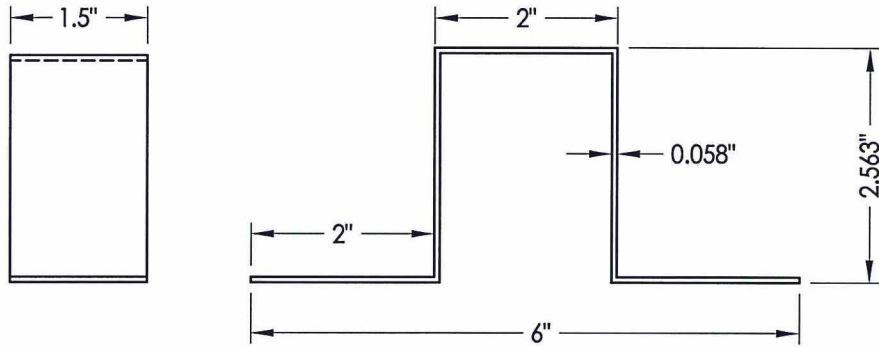
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE C.A. No. 9813

PRODUCT:	HMF EXPRESS		
PART OR ASSEMBLY:	COMPONENTS		
DATE:	12/11/15		
SCALE:	N.T.S.		
DWG. BY:	JK		
CHK. BY:	LFS		
DRAWING NO.:	FL-18506.9		
SHEET	10 OF 11		
NO.	DATE	BY	REVISIONS

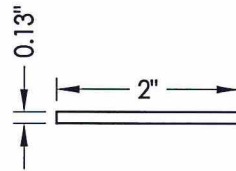
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
C	1/4" MAX. SHIM SPACE	-
D	1/4" X 2-3/4" ELCO OR ITW CONCRETE SCREW	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
H	1/4" X 1-3/4" PFH CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
J	3/8" X 5" PFH DYNABOLT SLEEVE ANCHOR (SEE CONCRETE ANCHOR TABLE)	STEEL
M	3/8" X 5" LDT TAPCON CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
N	3/8" X 5" BOLT (ASTM A307) W/ NUT AND WASHER	STEEL
X	STEEL STUD (14 GA, Fu = 50 ksi, Fy = 33 ksi)	STEEL
1	STEEL DOOR PANEL	-
3	DOOR STOP	STEEL
8	DUST BOX	STEEL
9	ANCHOR BRACKET	STEEL
10	#12-24 X 1/2" PFH MACHINE SCREW	STEEL
11	#8 x 3/4" COMBINATION WOOD/MACHINE SCREW	STEEL
16	ANSI LATCH STRIKE	STEEL
17	DEADBOLT STRIKE	STEEL
19	DEADBOLT STRIKE REINFORCEMENT	STEEL
20	WEATHERSTRIP (PEMCO 303A)	NEOPRENE
21	4-1/2" X 4-1/2" X 0.125" HINGE	STEEL
22	DOOR HINGE REINFORCEMENT	STEEL
25	HOLLOW FRAME (2" JAMB) - 16GA (0.055" THK)	STEEL
28	FRAME HINGE REINFORCEMENT	STEEL
30	MASONRY 'T' ANCHOR	STEEL
35	WIRE ANCHOR	STEEL
40	THRESHOLD (NATIONAL GUARD 950)	ALUMINUM
50	ROCKWELL SURFACE BOLTS (580)	STEEL
51	1/4" X 2-1/2" PPH MS	STEEL
52	SURFACE BOLT STRIKE PLATE	STEEL
53	#12 X 5/8" FH SCREW	STEEL



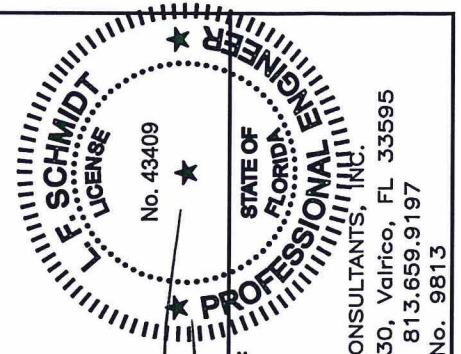
40 THRESHOLD



9 ANCHOR BRACKET



3 DOOR STOP
Exterior



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SHEET 11 OF 11