

Z:\2023 FBC Drawings\Metal Mfg Industries\FL-12166 R4\FL-12166.1-9.dwg



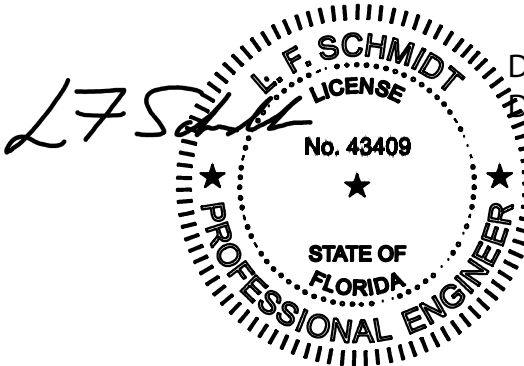
PRIV. DE RIO SANTIAGO #30
COL. LA RAZA
SOLEDAD DE GRACIANO SANCHEZ
SAN LUIS POTOSI, C.P. 78433

"N" SERIES
COMMERCIAL STEEL DOOR
w/ TRANSOM
OUTSWING
"IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) 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. When used in areas outside of the "HVHZ" 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.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. 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.
7. The "N" door achieves a Class III stiffness classification per Section 8.2.2 of ANSI A250.13 (based on opaque door).
8. When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6.

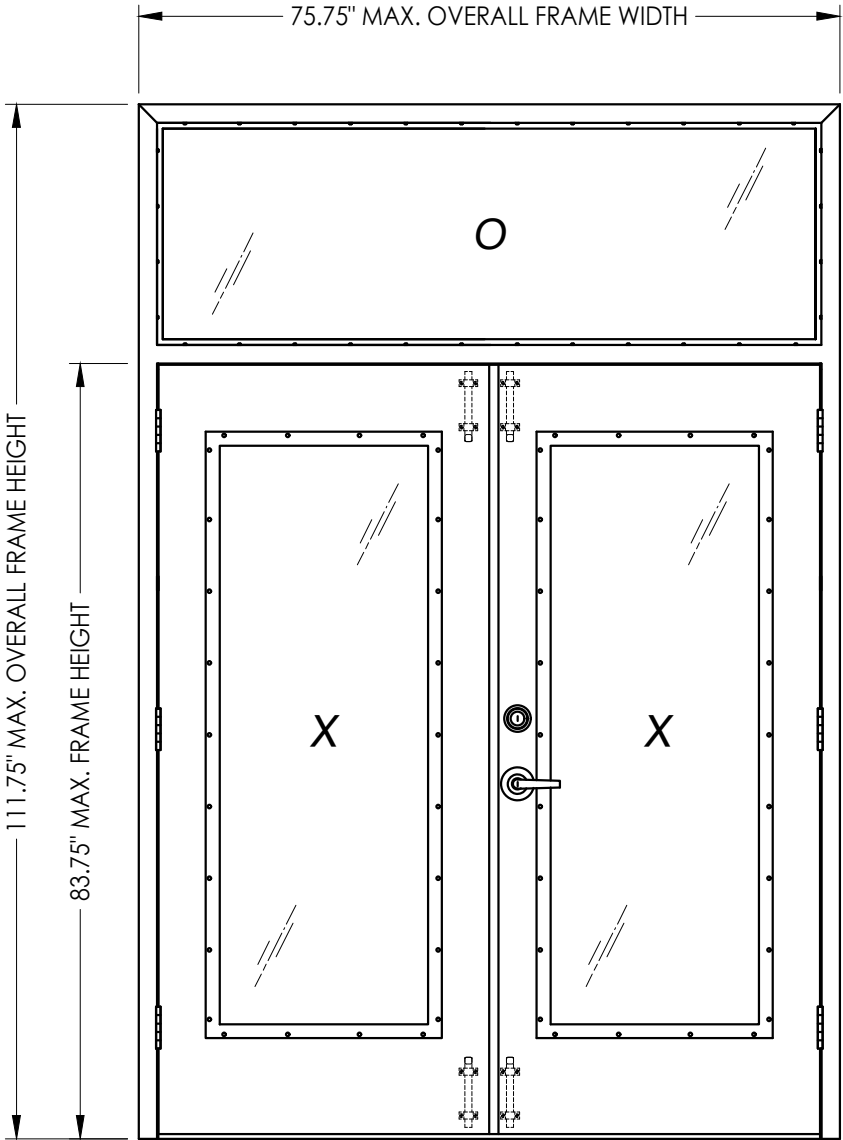
TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Door panel details
3	Horizontal cross sections
4	Vertical cross sections
5	Anchoring details
6	Components
7	Bill of materials, glazing details & components



Digitally signed by Lyndon F Schmidt
Date: 2023.07.11 08:01:23 -04'00'

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



OVERALL FRAME DIMENSION	DOOR D.L.O. DIMENSION	TRANSOM D.L.O. DIMENSION	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
75.75" x 111.75"	22.50" x 62.50"	70.50" x 22.75"	+65.0	-70.0

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

PRODUCT:
METAL MANUFACTURING INDUSTRIES
"N" STEEL DOOR

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

DATE: 2/23/09

SCALE: N.T.S.

DWG. BY: AL

CHK. BY: LFS

DRAWING NO.: FL-12166.3

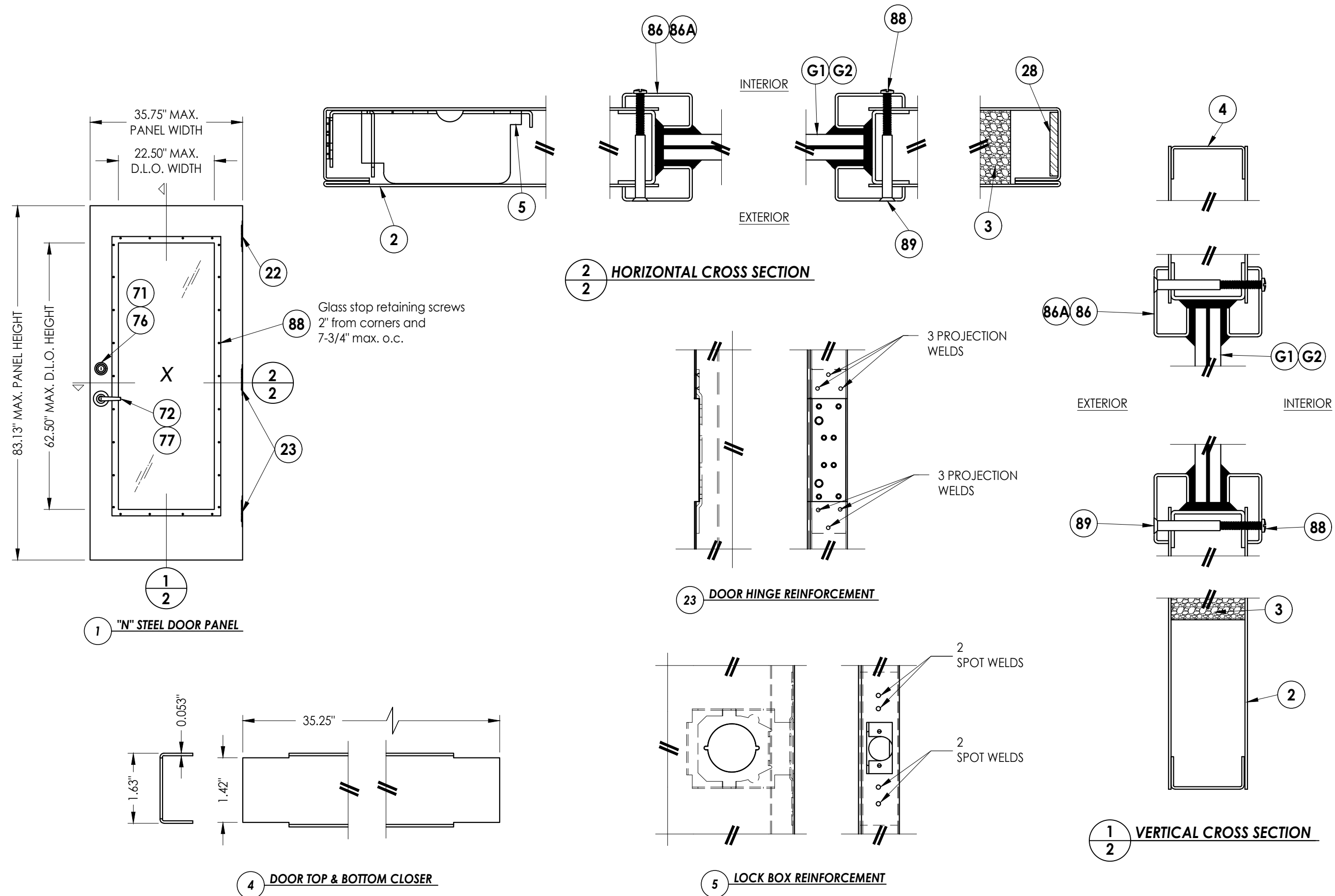
SHEET 1 OF 7

REVISONS

NO.	DATE	DESCRIPTION
4	7/11/23	UPDATE TO 8TH ED. (2023) FBC
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC
2	7/19/17	UPDATE TO 6TH ED. (2017) FBC
1	10/14/16	UPDATE TO 5TH ED. (2014) FBC

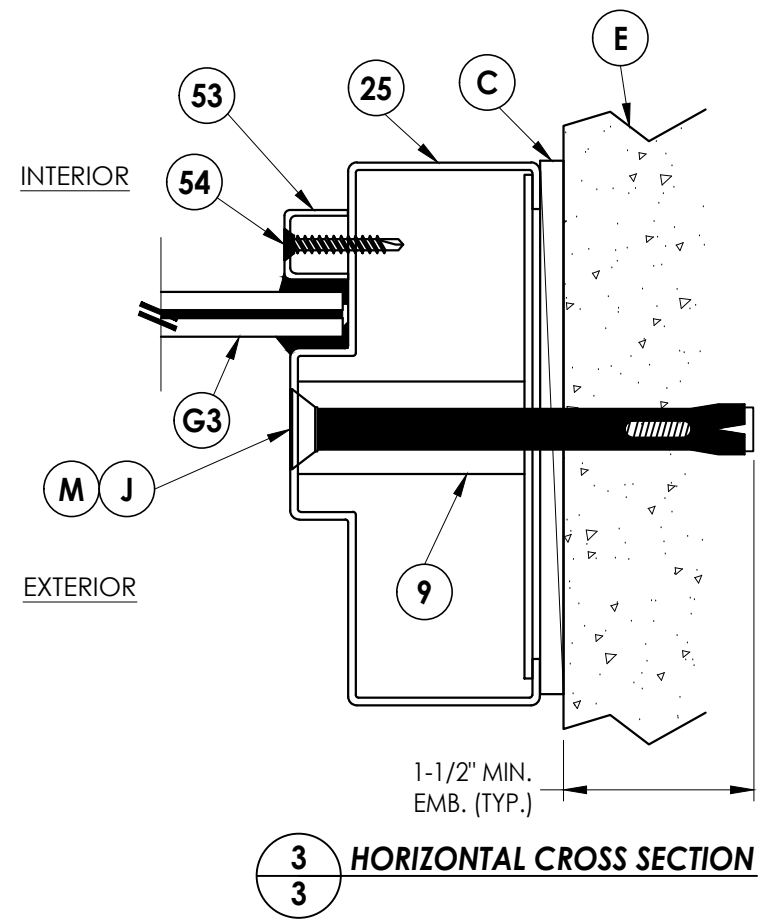
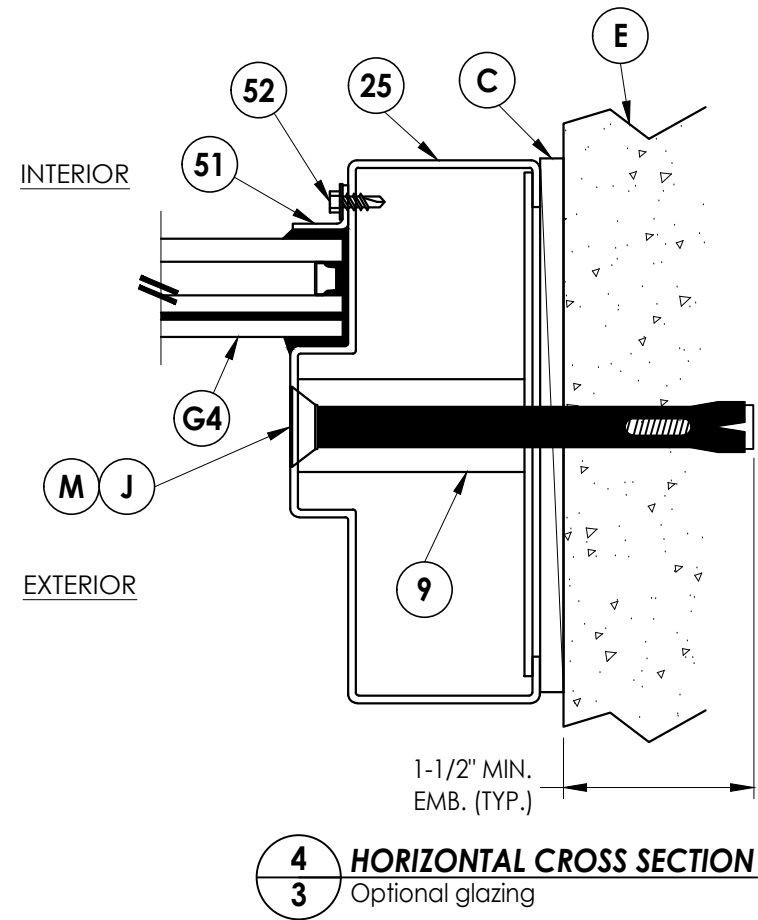
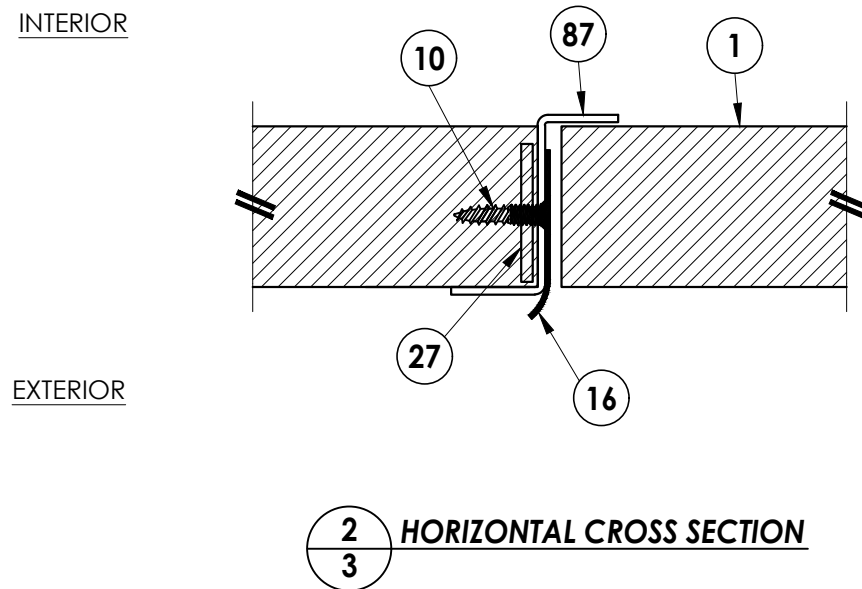
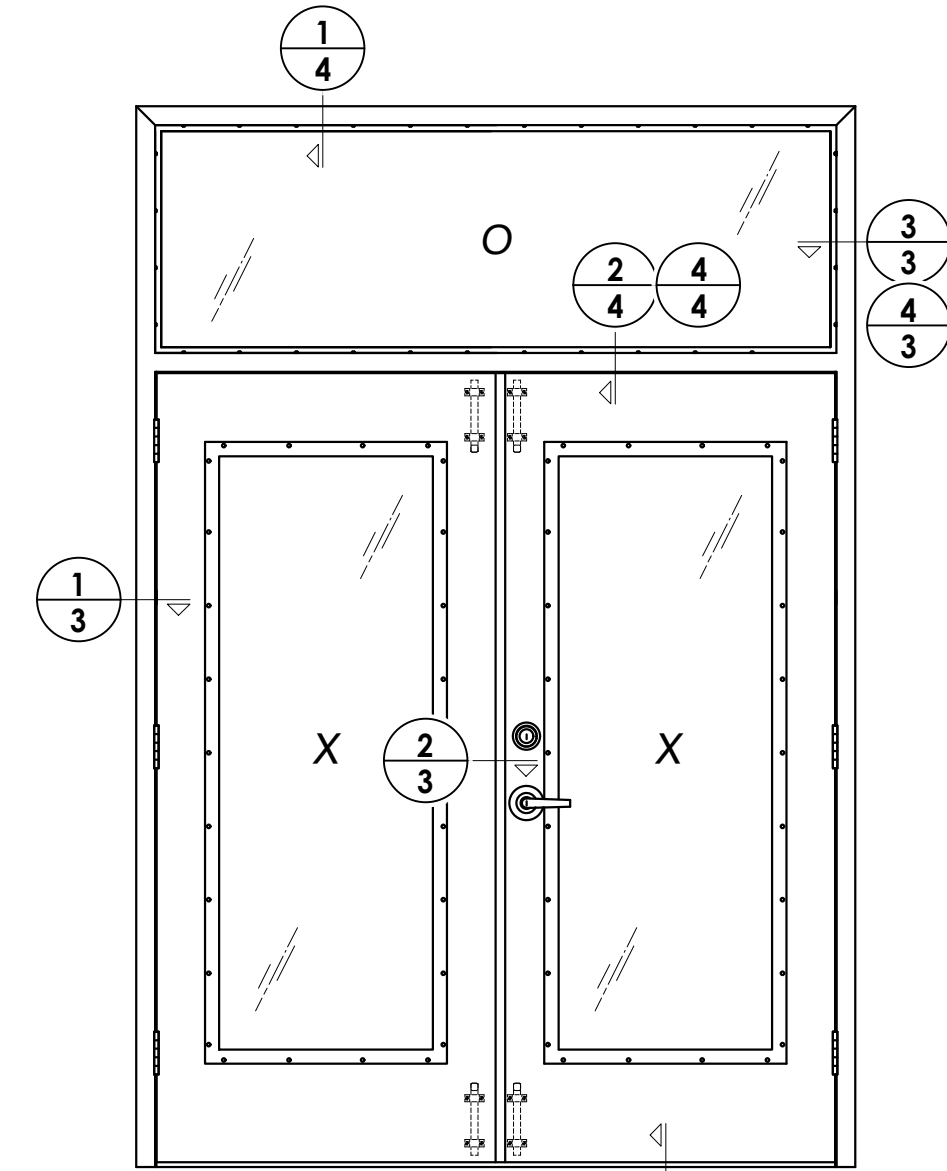
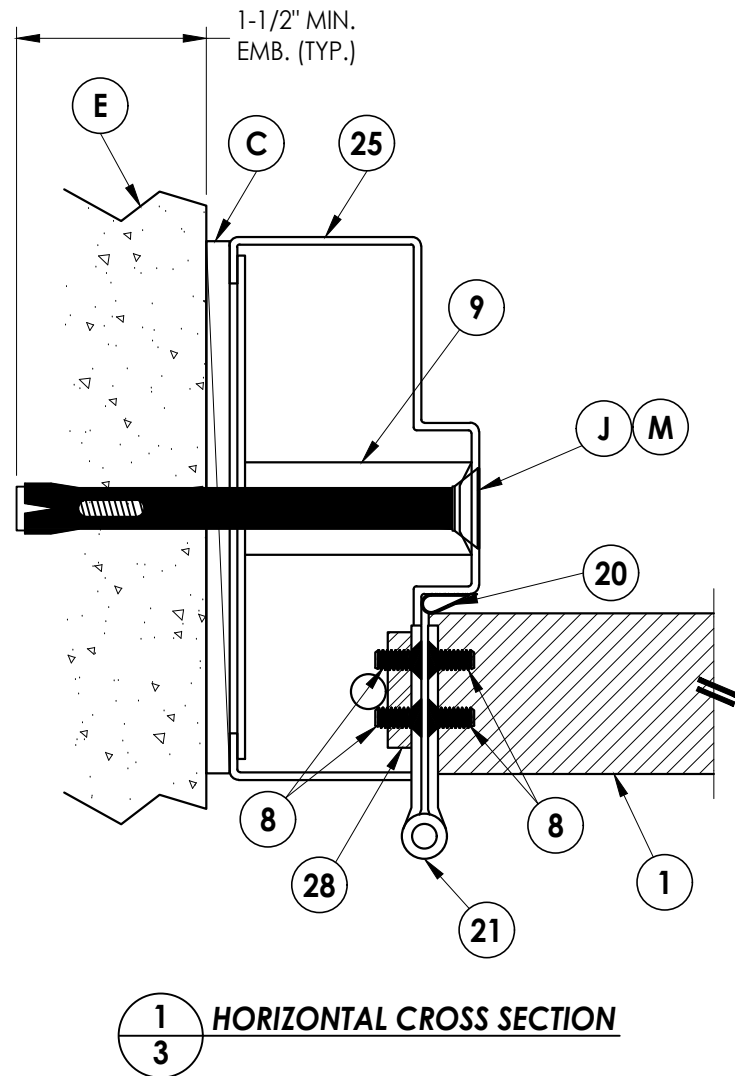
© 2009 R.W. BUILDING CONSULTANTS INC.

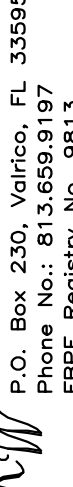
Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

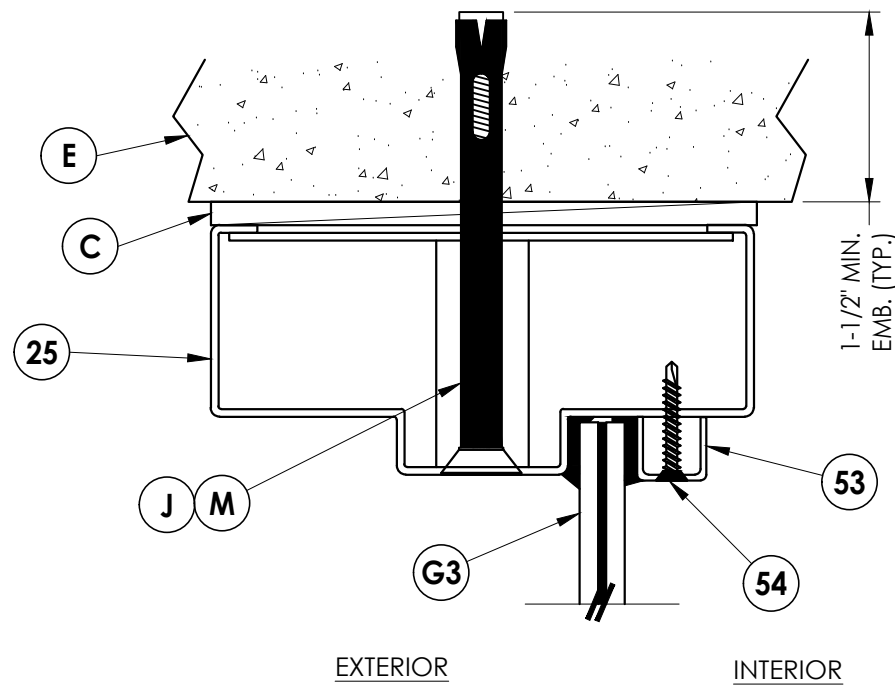


NOTE: ALL WELDING TO CONFORM w/ AMERICAN WELDING SOCIETY, ANSI/AWS AS PER FBC SECTION 2214.3.4.

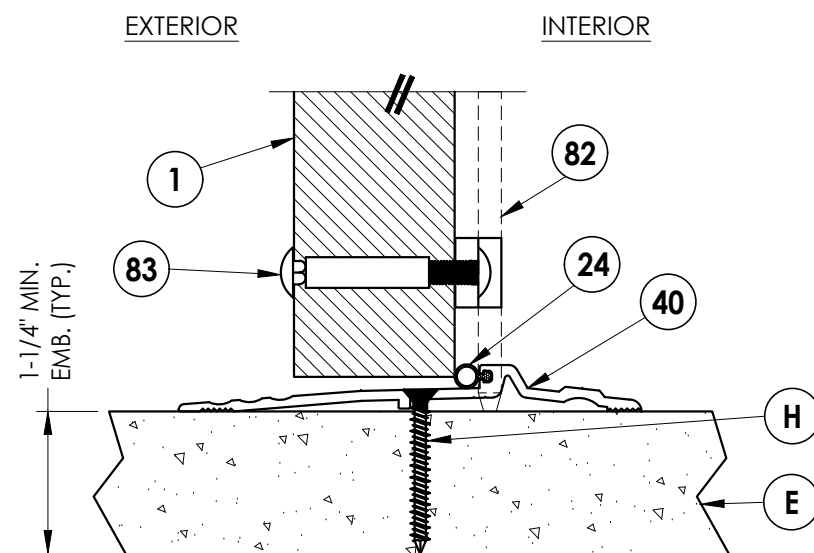
PRODUCT:					
METAL MANUFACTURING INDUSTRIES "N" STEEL DOOR					
PART OR ASSEMBLY:					
DOOR PANEL DETAILS					
4	7/11/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
3	7/30/20	UPDATE TO 7TH ED.	(2020)	FBC	DAC
2	7/19/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS
1	10/14/16	UPDATE TO 5TH ED.	(2014)	FBC	JK
NO.	DATE				BY
REVISIONS					
DATE: 2/23/09					
SCALE: N.T.S.					
DWG. BY: AL					
CHK. BY: LFS					
DRAWING NO.: FL-12166.3					
SHEET 2 OF 7					



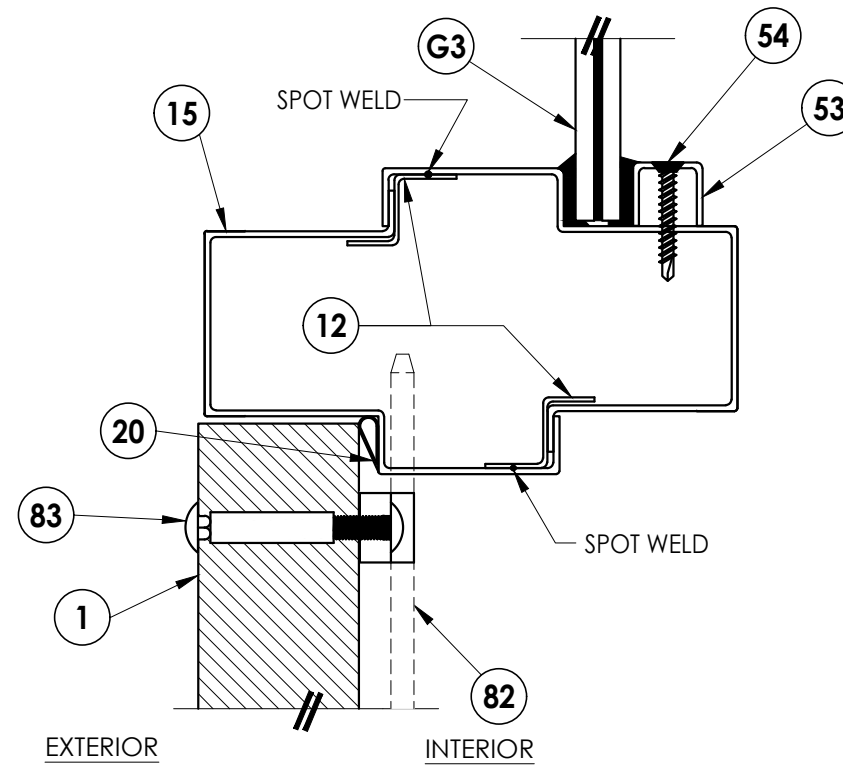
DATE: 2/23/09		PRODUCT: METAL MANUFACTURING INDUSTRIES "N" STEEL DOOR		Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	
SCALE: N.T.S.		PART OR ASSEMBLY: HORIZONTAL CROSS SECTIONS			
DWG. BY: AL					
CHK. BY: LFS					
DRAWING NO.: FL-12166.3					
SHEET 3 OF 7					



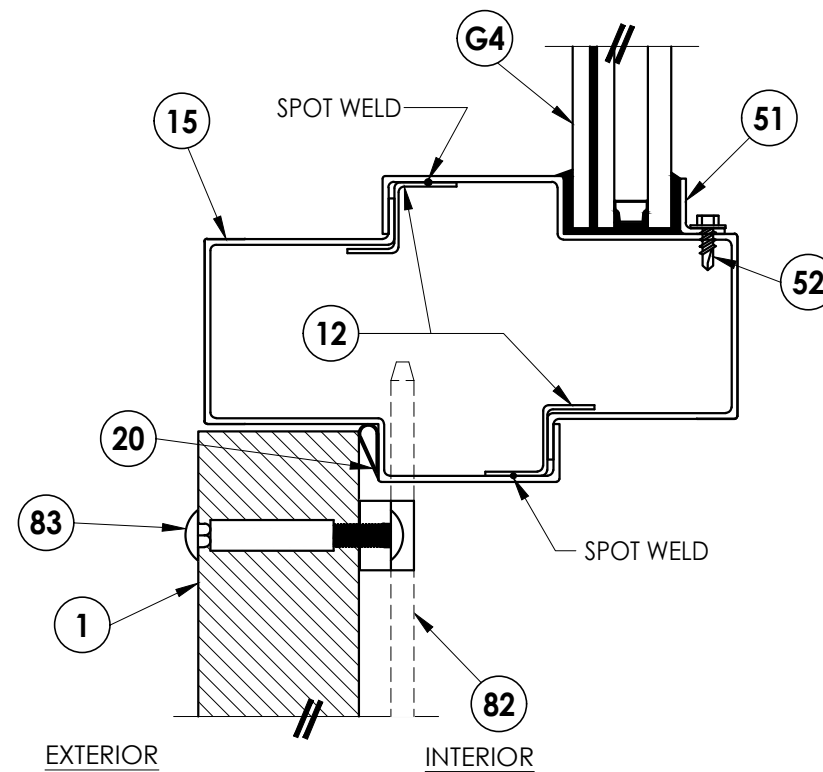
1 **VERTICAL CROSS SECTION**
4



3 VERTICAL CROSS SECTION



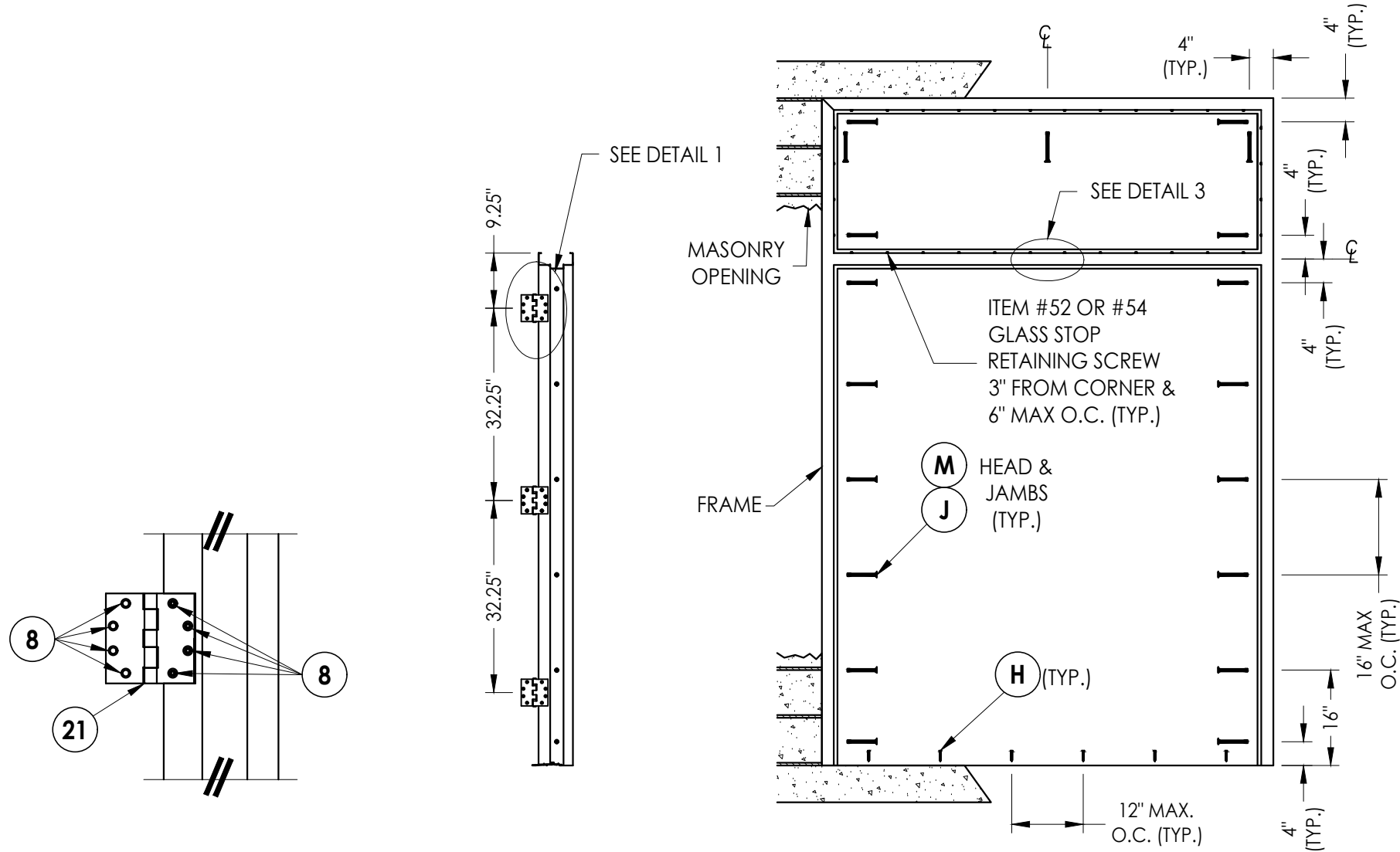
2 VERTICAL CROSS SECTION
4



4 VERTICAL CROSS SECTION
Optional glazing

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409					
PRODUCT:		METAL MANUFACTURING INDUSTRIES "N" STEEL DOOR			
PART OR ASSEMBLY:		VERTICAL CROSS SECTIONS			
4	7/11/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
3	7/30/20	UPDATE TO 7TH ED.	(2020)	FBC	DAC
2	7/19/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS
1	10/14/16	UPDATE TO 5TH ED.	(2014)	FBC	JK
NO.	DATE				
					REVISIONS
DATE: 2/23/09					
SCALE: N.T.S.					
DWG. BY: AL					
CHK. BY: LFS					
DRAWING NO.: FL-12166.3					
SHEET 4 OF 7					

Z:\2023 FBC Drawings\Metal Mfg Industries\FL-12166 R4\FL-12166.1-9.dwg



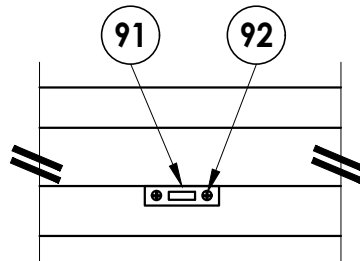
DETAIL 1

HINGE JAMB

FRAME ANCHORING

STRIKE JAMB

DETAIL 2



DETAIL 3

CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. 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"
TAPPER	3/8"	1-1/2"	4-1/4"	6"

- Embedment may be through 1-1/4" face shell of hollow block.

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 Registry No. 9813

PRODUCT:
METAL MANUFACTURING
INDUSTRIES
"N" STEEL DOOR

PART OR ASSEMBLY:
ANCHORING DETAILS

		REVISIONS			
		NO.	DATE	BY	
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC	DAC	
2	7/19/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK	

DATE: 2/23/09

SCALE: N.T.S.

DWG. BY: AL

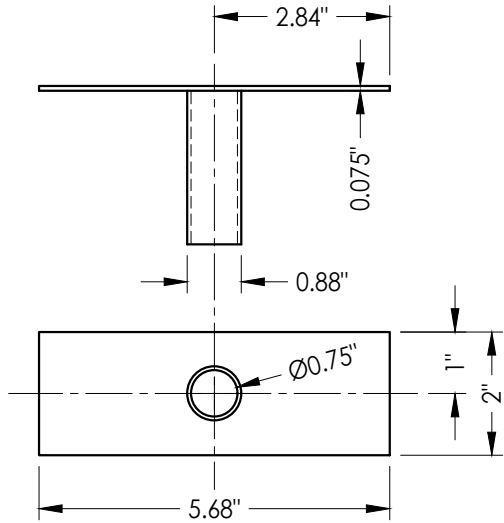
CHK. BY: LFS

DRAWING NO.:

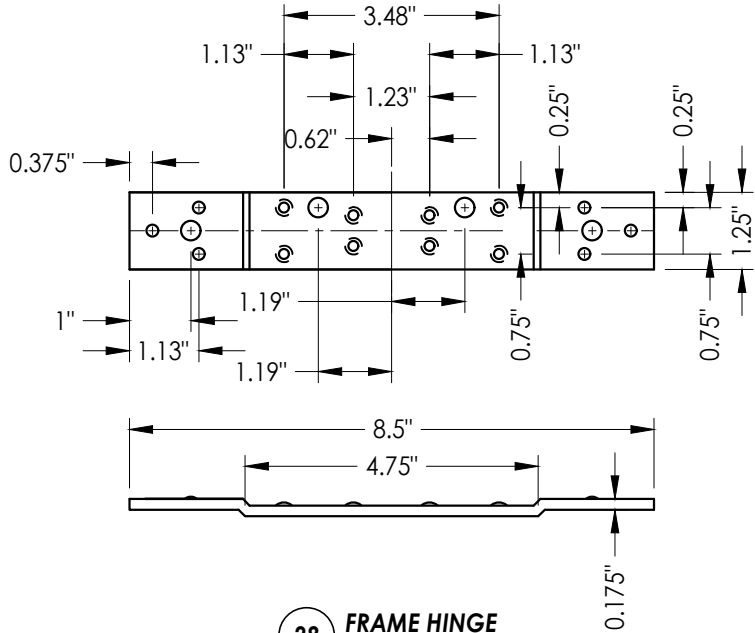
FL-12166.3

SHEET 5 OF 7

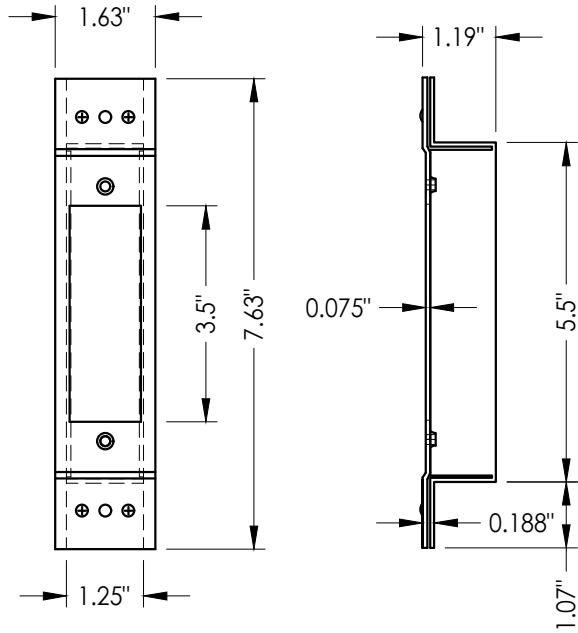
Z:\2023 FBC Drawings\Metal Mfg Industries\FL-12166 R4\FL-12166.1-9.dwg



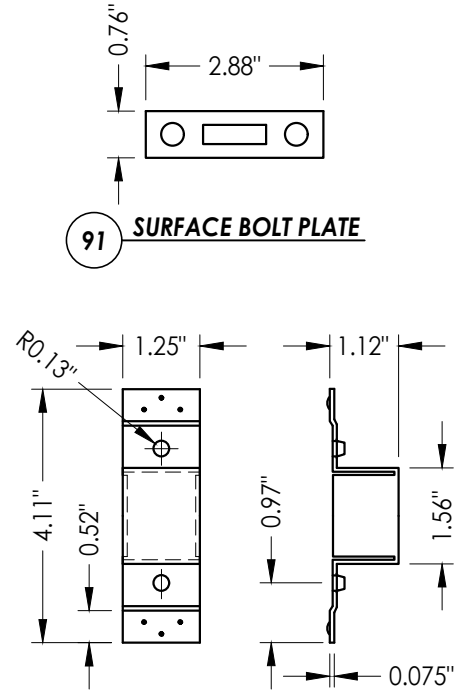
9 TUBE ANCHOR



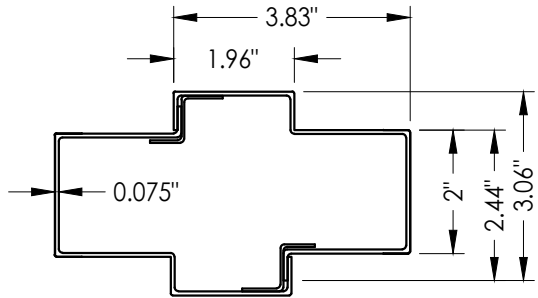
28 FRAME HINGE
Reinforcement



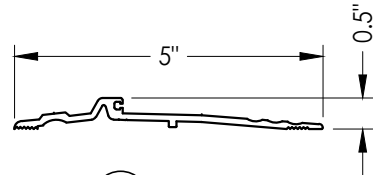
27 LATCH STRIKE REINFORCEMENT



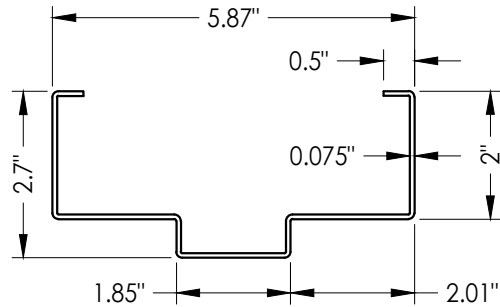
19 DEADBOLT STRIKE REINFORCEMENT



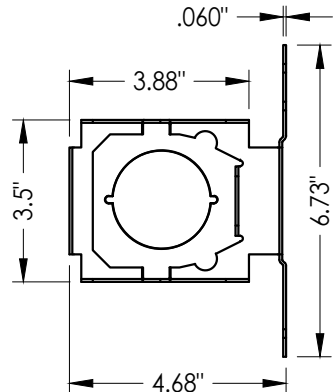
15 MULLION



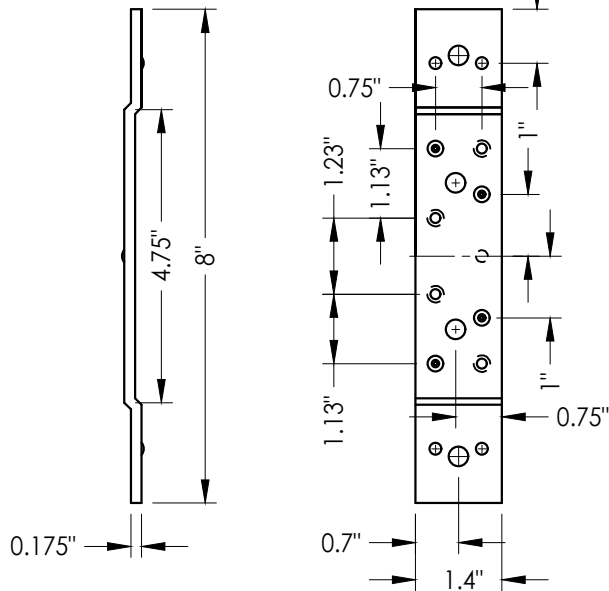
40 THRESHOLD



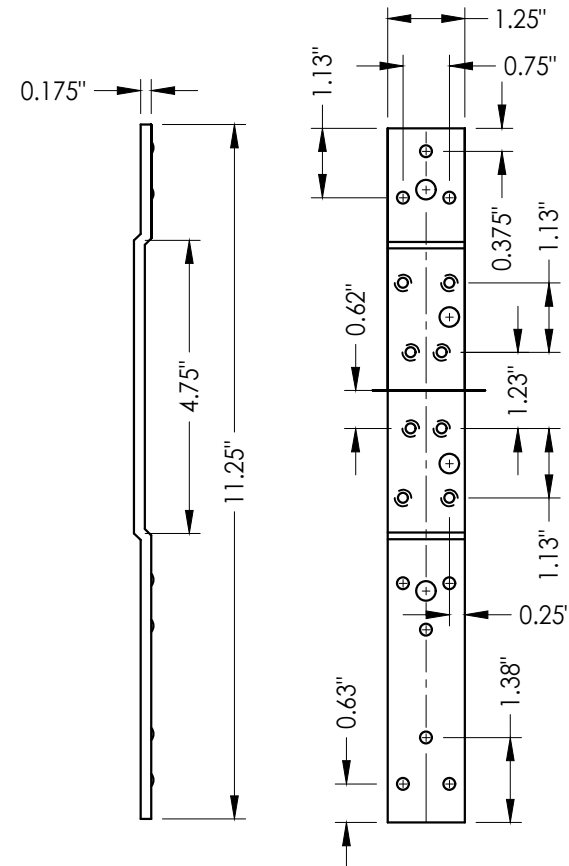
25 HOLLOW METAL FRAME



5 LOCK BOX REINFORCEMENT



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



22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge

DATE:		2/23/09	
SCALE:		N.T.S.	
DWG. BY:		AL	
CHK. BY:		LFS	
DRAWING NO.:		FL-12166.3	
SHEET		6 OF 7	

PRODUCT:		METAL MANUFACTURING INDUSTRIES "N" STEEL DOOR	
PART OR ASSEMBLY:		COMPONENTS	

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

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

