

G:\2023 FBC Drawings 7-20-26\Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg



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

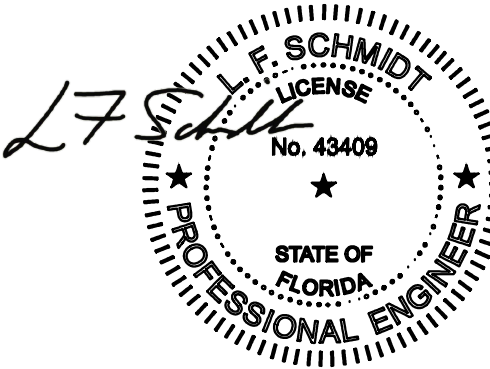
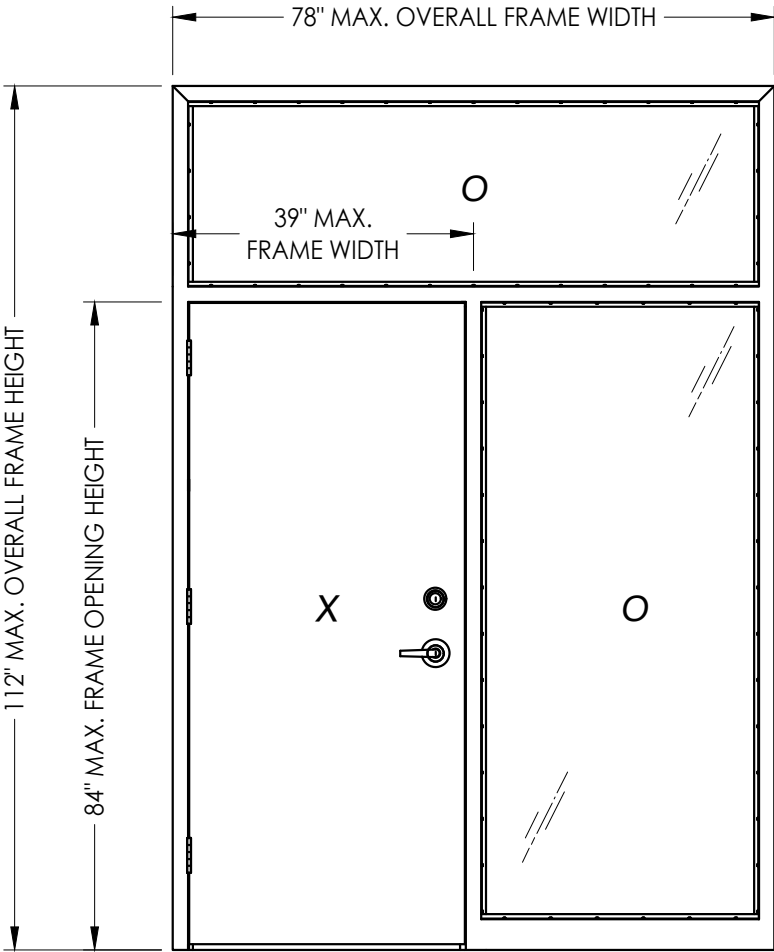
"N" SERIES COMMERCIAL STEEL DOOR w/ SIDELITE & TRANSOM INSWING / OUTSWING "IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements excluding 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 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.
4. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. The "N" door achieves a Class III stiffness classification per Section 8.2.2 of ANSI A250.13 (based on opaque door).

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel sections 161 lock prep
3	Horizontal cross sections
4	Vertical cross sections
5	Vertical cross sections
6	Vertical cross sections
7	Anchoring details
8	Glazing detail & components
9	Components
10	Bill of materials & components

OVERALL FRAME DIMENSION	SIDELITE D.L.O. DIMENSION	TRANSOM D.L.O. DIMENSION	LOCK TYPE	GLASS TYPE	DESIGN PRESSURE (PSF)	
					POSITIVE	NEGATIVE
78.0" x 112.0"	34.75" x 78.75"	72.75" x 22.75"	161 LATCH (SCHLAGE)	G1, G2	+55.0	-55.0
			161 LATCH & DEADBOLT (DESIGN HARDWARE)		+65.0	-65.0



Digitally signed by
Lyndon F Schmidt
Date: 2026.07.24 09:12:31
-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

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

PRODUCT:
MMI
"N" STEEL DOOR

Part or Assembly:
TYPICAL ELEVATIONS, DESIGN
PRESSURES & GENERAL NOTES

57/01/26UPDATE TO 9TH ED. (2026) FBC

47/11/23UPDATE TO 8TH ED. (2023) FBC

37/30/20UPDATE TO 7TH ED. (2020) FBC

27/18/17UPDATE TO 6TH ED. (2017) FBC

110/14/16UPDATE TO 5TH ED. (2014) FBC

NO. DATE

REVISIONS

DATE: 11/3/08

SCALE: N.T.S.

DWG. BY: AL

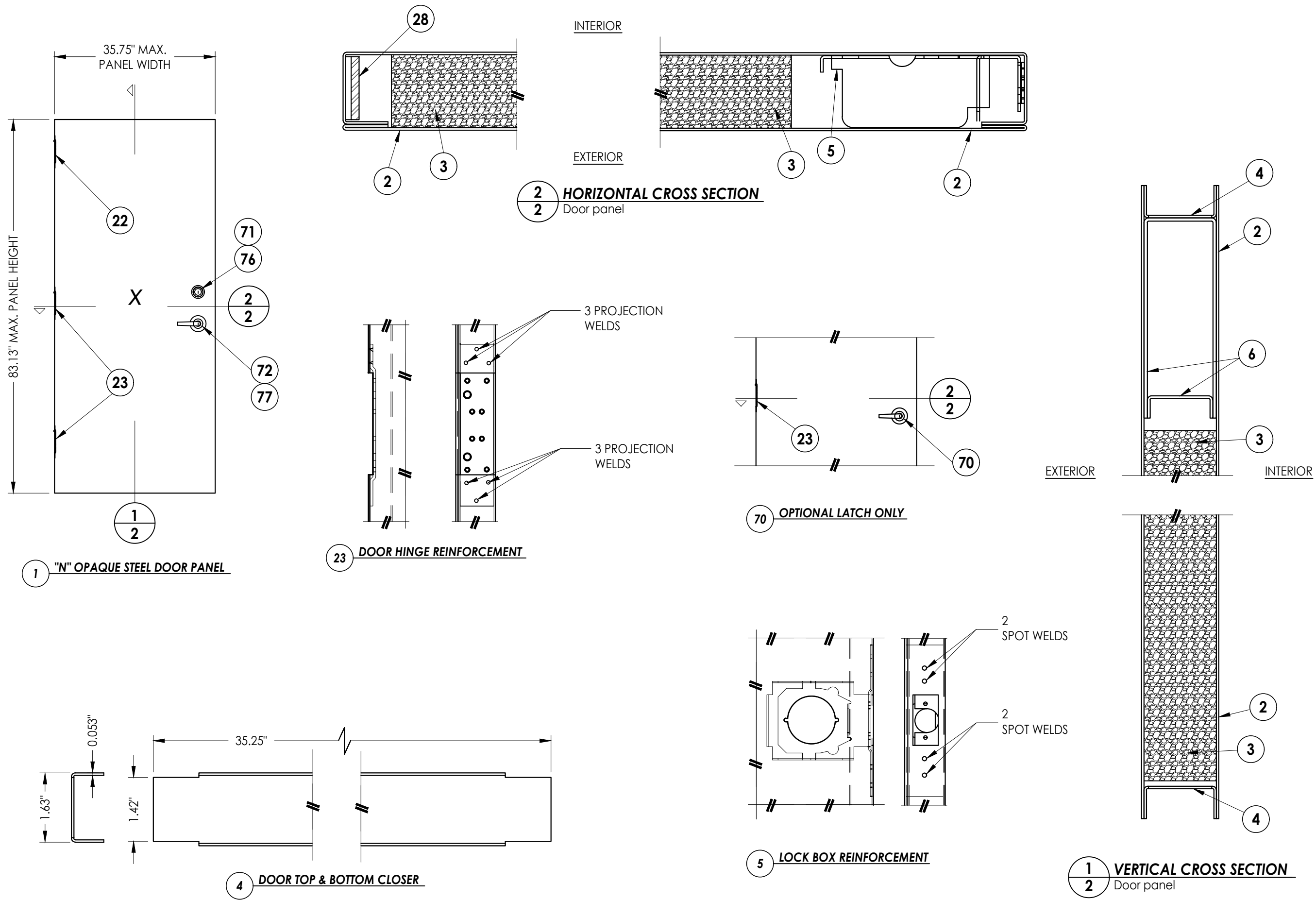
CHK. BY: LFS

DRAWING NO.: FL-12186.7

SHEET 1 OF 10

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

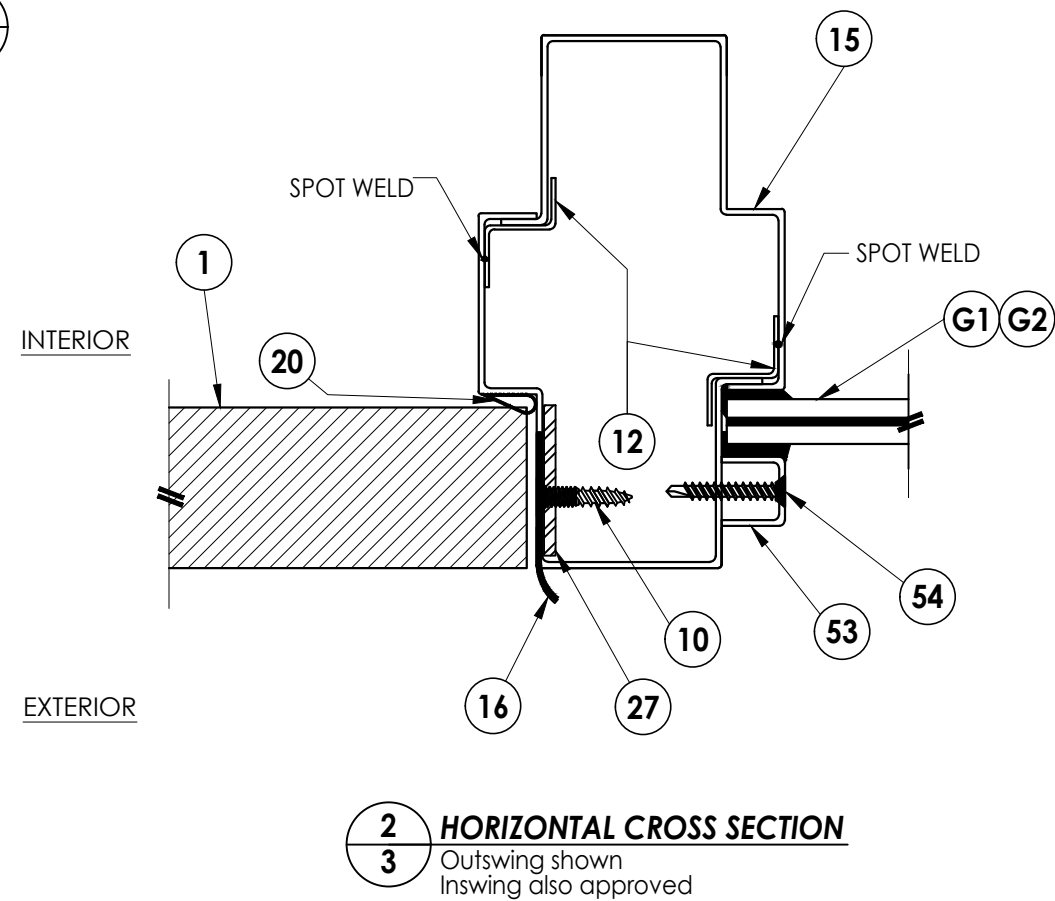
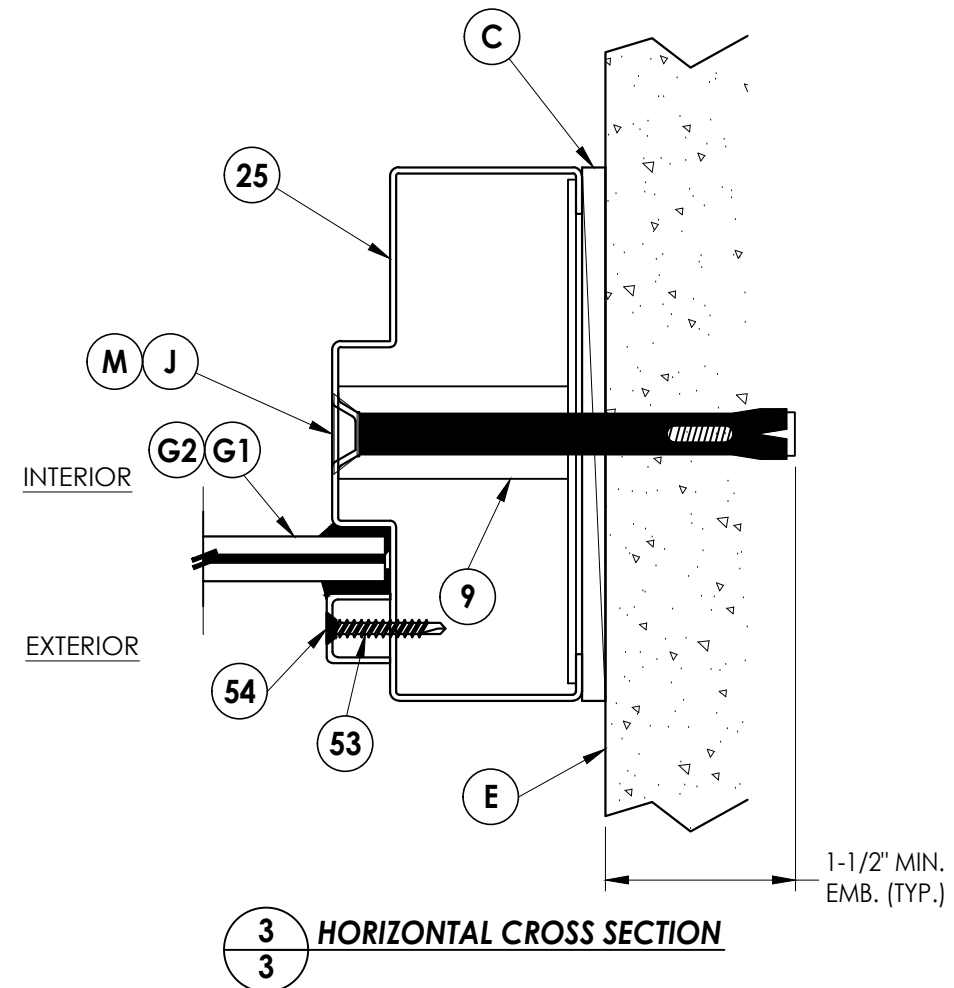
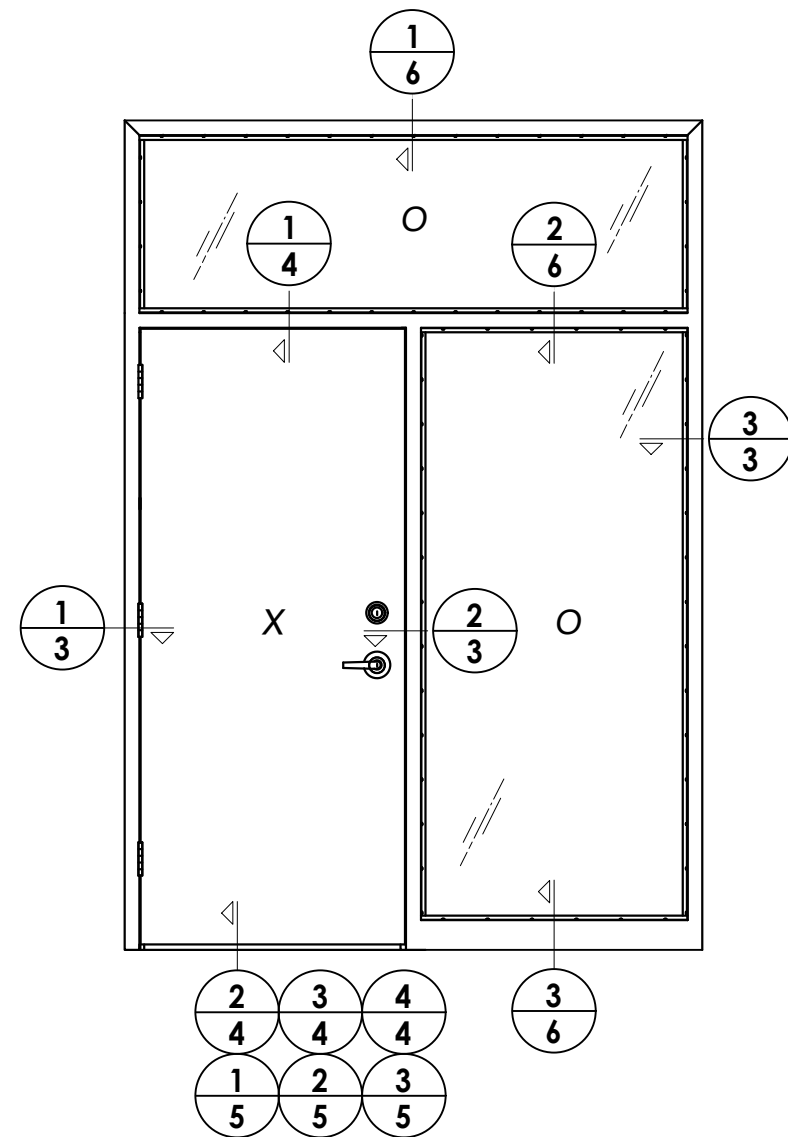
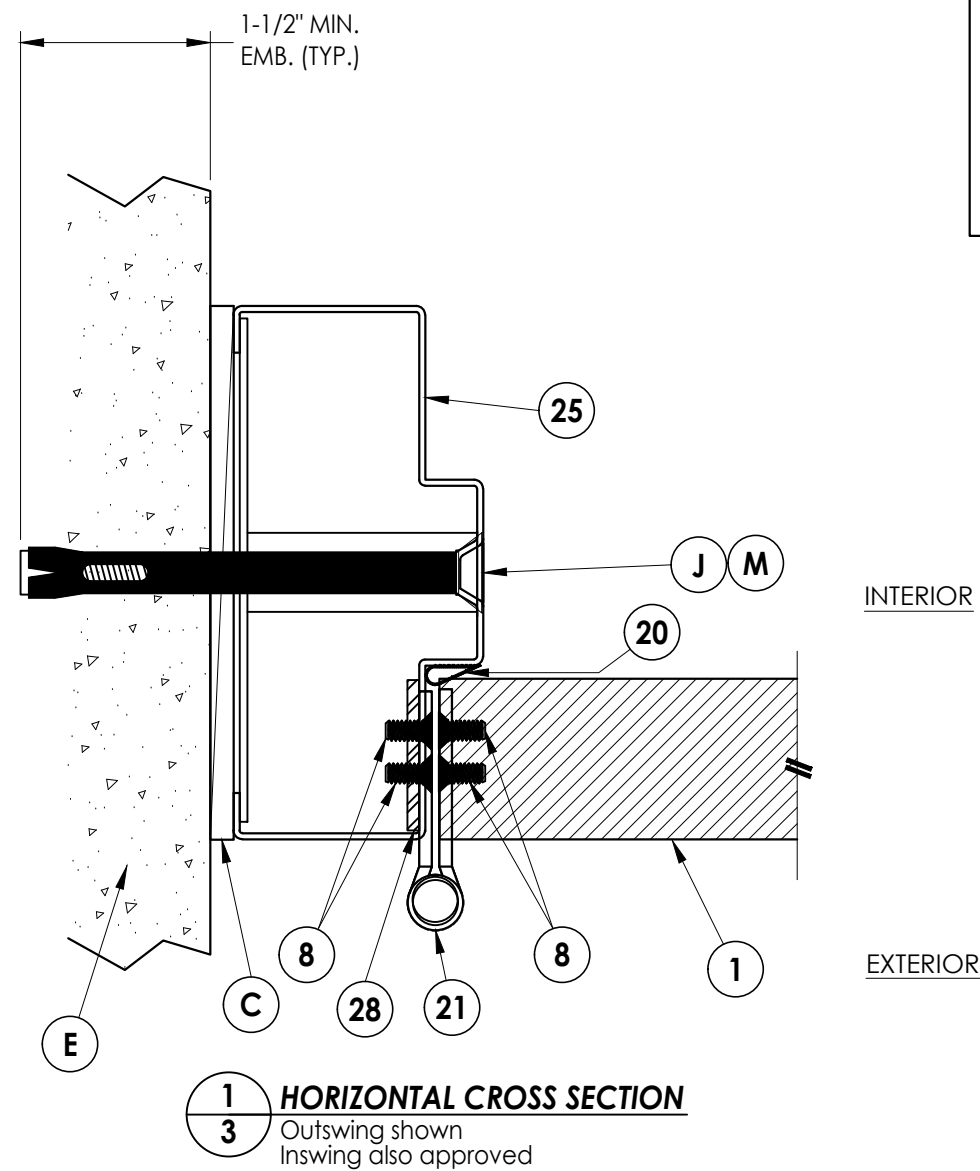
G:\2023 FBC Drawings 7-20-26\Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg



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

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409					BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813				
PRODUCT: MMI "N" STEEL DOOR					PART OR ASSEMBLY: DOOR PANEL SECTIONS 161 LOCK PREP				
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS					
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC	LFS					
3	7/30/20	UPDATE TO 7th ED. (2020)	FBC	DAC					
2	7/18/17	UPDATE TO 6TH ED. (2017)	FBC	LFS					
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK					
NO.	DATE			BY					
					REVISIONS				
DATE: 11/3/08									
SCALE: N.T.S.									
DWG. BY: AL									
CHK. BY: LFS									
DRAWING NO.: FL-12186.7									
SHEET 2 OF 10									

© 2008 R.W. BUILDING CONSULTANTS INC.



5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC	DAC
2	7/18/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK
NO.	DATE	REVISIONS		
DATE: 11/3/08				
SCALE: N.T.S.				
DWG. BY: AL				
CHK. BY: LFS				
DRAWING NO.: FL-12186.7				
SHEET 3 OF 10				

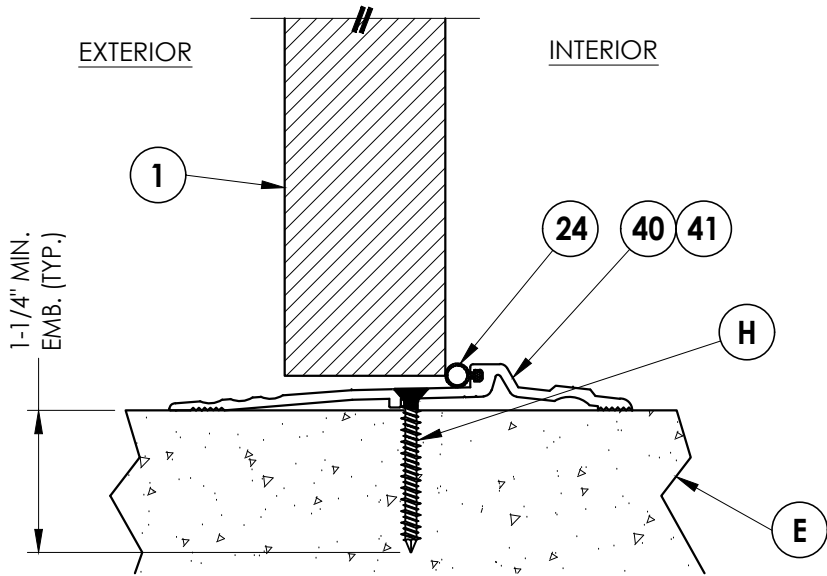
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

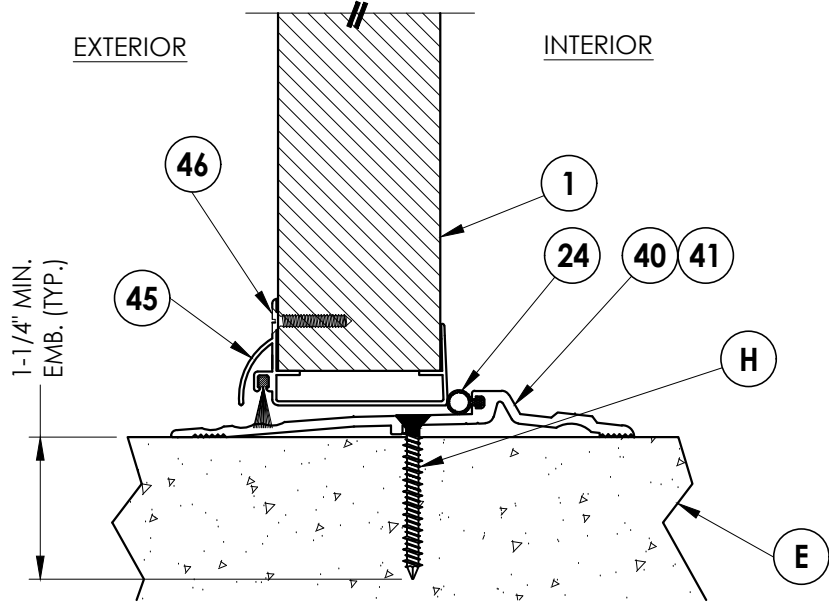


PRODUCT:	MMI "N" OPAQUE STEEL DOOR	Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS	<i>R_N</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813

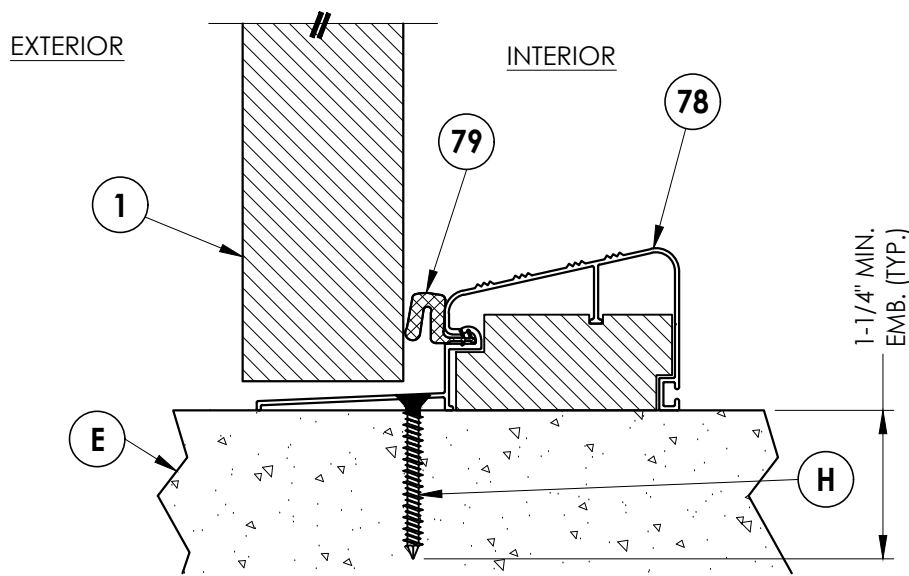
G:\2023 FBC Drawings 7-20-26\Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg



2 VERTICAL CROSS SECTION
5 Outswing configuration



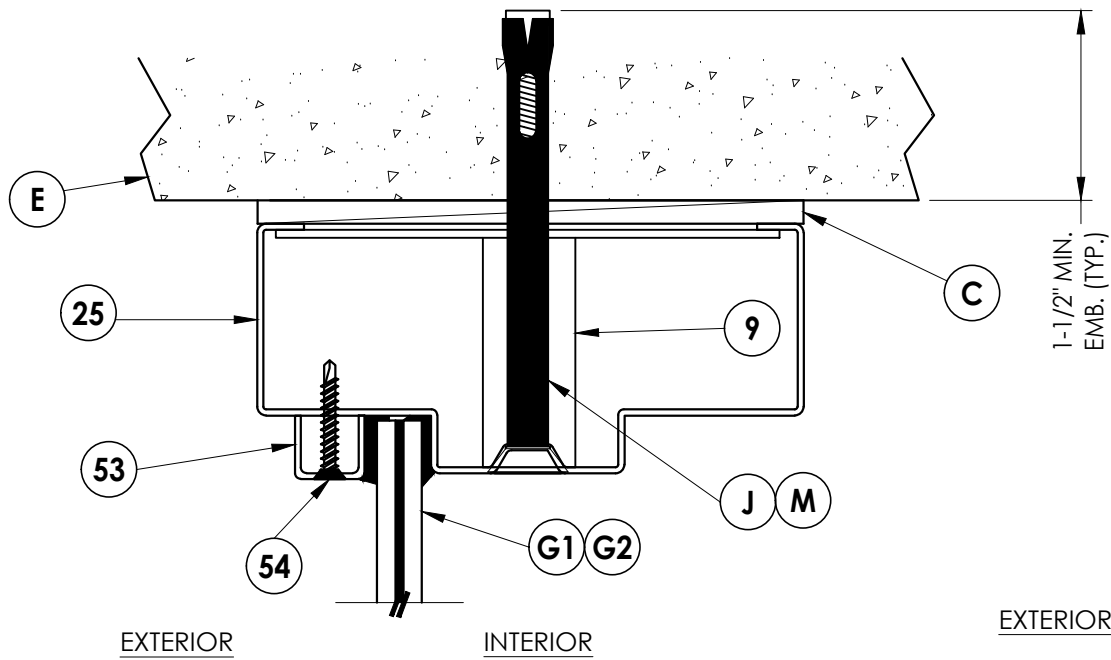
1 VERTICAL CROSS SECTION
5 Outswing configuration



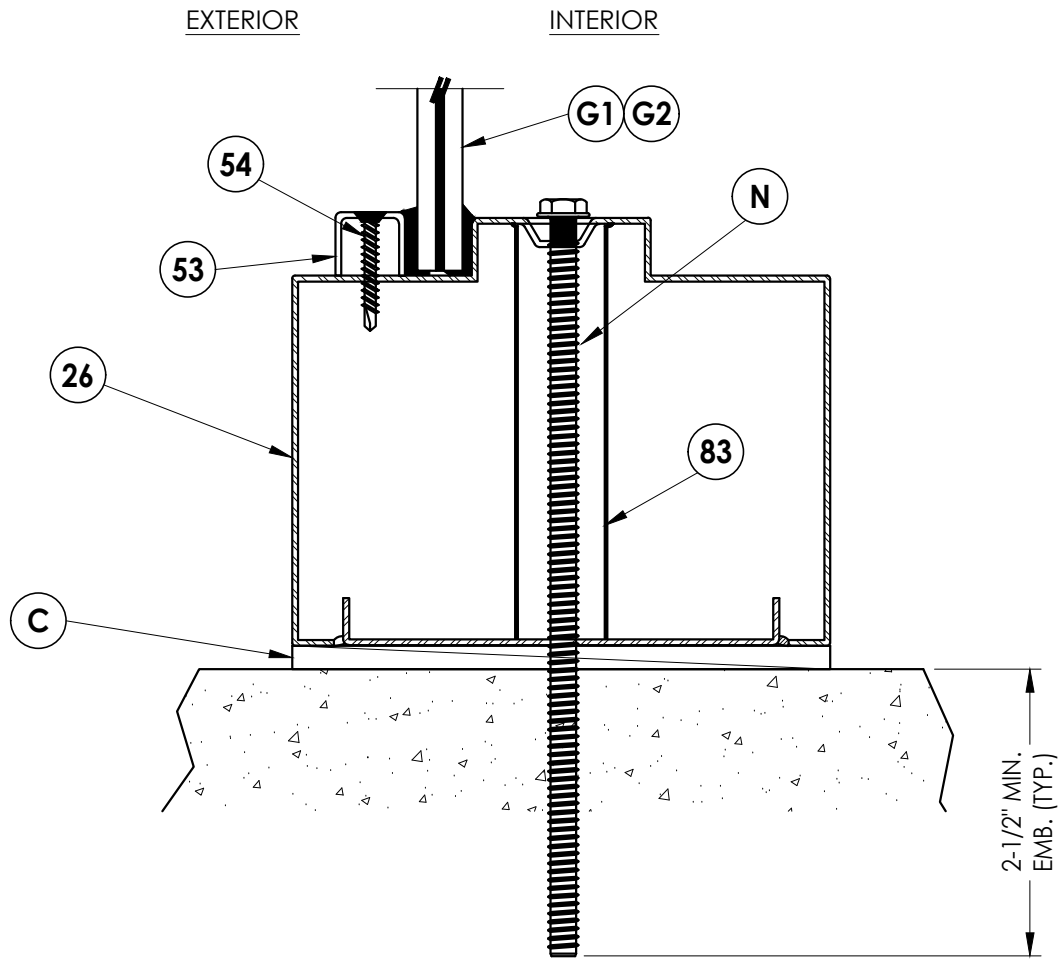
3 VERTICAL CROSS SECTION
5 Outswing configuration

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: MMI "N" OPAQUE STEEL DOOR				PART OR ASSEMBLY: VERTICAL CROSS SECTIONS			
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS			
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC	LFS			
3	7/30/20	UPDATE TO 7th ED. (2020)	FBC	DAC			
2	7/18/17	UPDATE TO 6TH ED. (2017)	FBC	LFS			
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK			
NO.	DATE			BY			
				REVISIONS			
DATE: 11/3/08							
SCALE: N.T.S.							
DWG. BY: AL							
CHK. BY: LFS							
DRAWING NO.: FL-12186.7							
SHEET 5 OF 10							

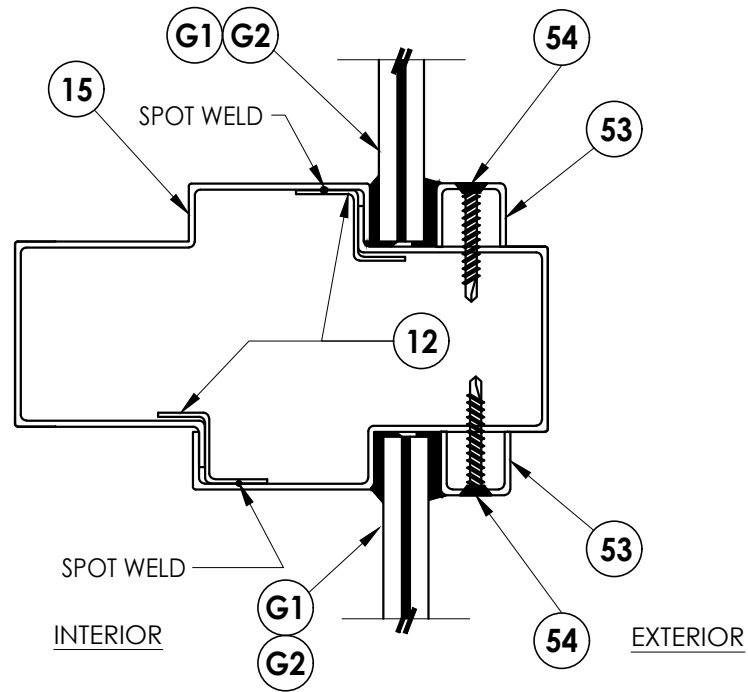
G:\2023 FBC Drawings 7-20-26\Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg



1
6 VERTICAL CROSS SECTION



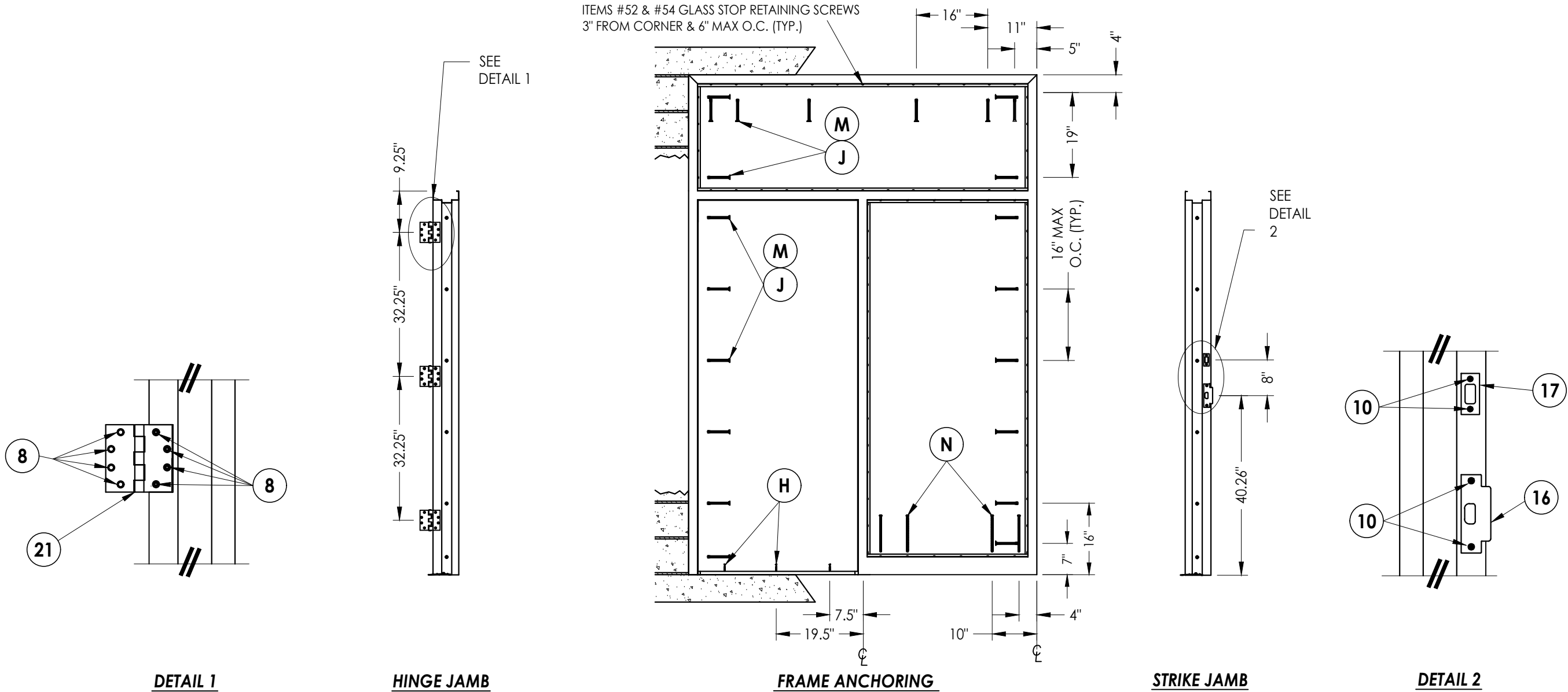
3
6 VERTICAL CROSS SECTION



2
6 VERTICAL CROSS SECTION

5	7/01/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS				
4	7/11/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS				
3	7/30/20	UPDATE TO 7TH ED.	(2020)	FBC	DAC				
2	7/18/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS				
1	10/14/16	UPDATE TO 5TH ED.	(2014)	FBC	JK				
NO.	DATE				BY				
						REVISIONS			
DATE: 11/3/08									
SCALE: N.T.S.									
DWG. BY: AL									
CHK. BY: LFS									
DRAWING NO.: FL-12186.7									
SHEET 6 OF 10									

G:\2023 FBC Drawings 7-20-26Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg



CONCRETE ANCHOR NOTES:

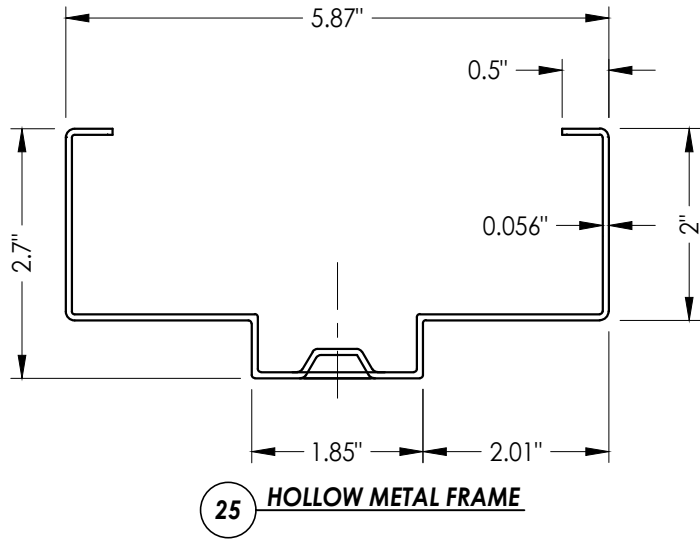
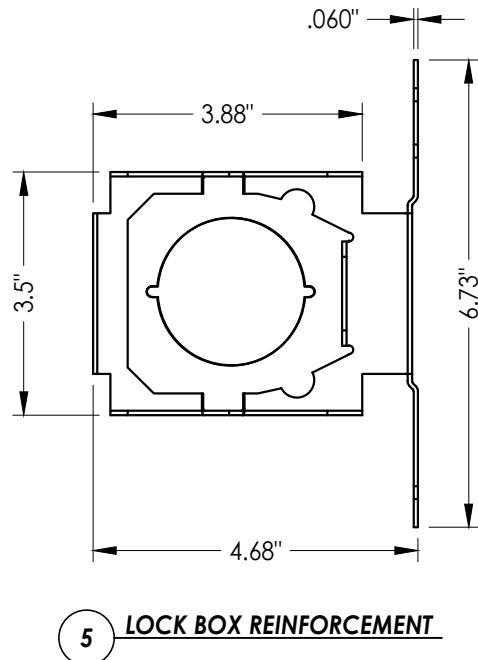
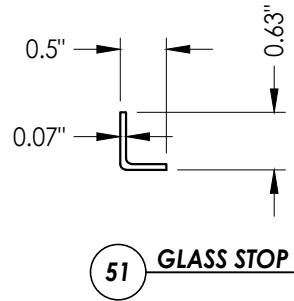
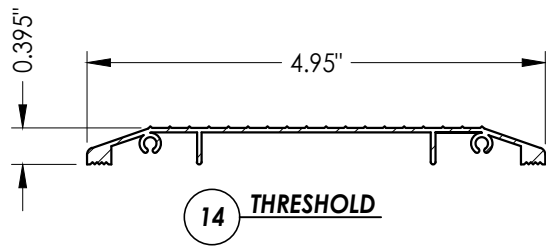
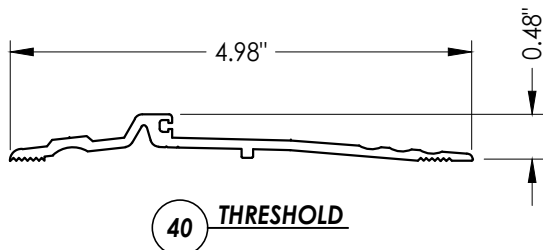
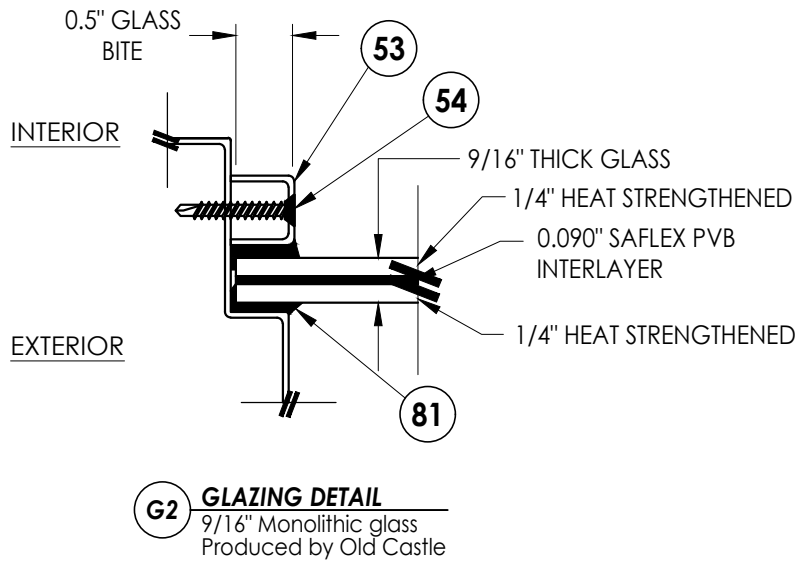
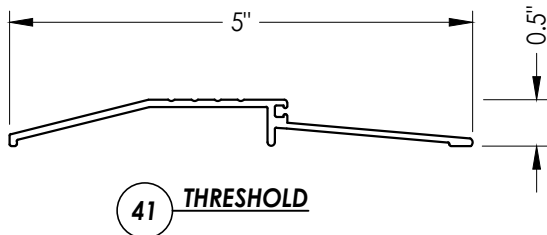
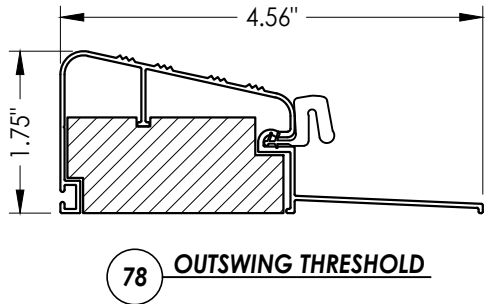
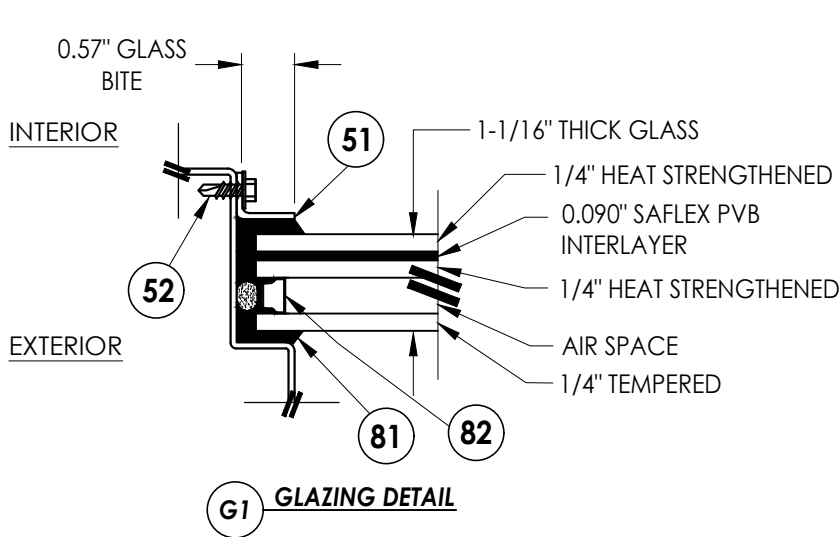
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON 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"
SCREW-BOLT+™	1/2"	2-1/2"	6"	6"

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

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: MMI "N" STEEL DOOR		PART OR ASSEMBLY: ANCHORING DETAILS	
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC LFS
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC DAC
2	7/18/17	UPDATE TO 6TH ED. (2017)	FBC LFS
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC JK
NO.	DATE		BY
			REVISIONS
DATE: 11/3/08			
SCALE: N.T.S.			
DWG. BY: AL			
CHK. BY: LFS			
DRAWING NO.: FL-12186.7			
SHEET 7 OF 10			

G:\2023 FBC Drawings 7-20-26\Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg



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:
MMI
"N" STEEL DOOR

PART OR ASSEMBLY:
GLAZING DETAILS &
COMPONENTS

NO.	DATE	REVISIONS				
		UPDATE TO	9TH ED.	(2026)	FBC	LFS
5	7/01/26	UPDATE TO	9TH ED.	(2026)	FBC	LFS
4	7/11/23	UPDATE TO	8TH ED.	(2023)	FBC	LFS
3	7/30/20	UPDATE TO	7TH ED.	(2020)	FBC	DAC
2	7/18/17	UPDATE TO	6TH ED.	(2017)	FBC	LFS
1	10/14/16	UPDATE TO	5TH ED.	(2014)	FBC	JK
						BY

DATE: 11/3/08

SCALE: N.T.S.

DWG. BY: AL

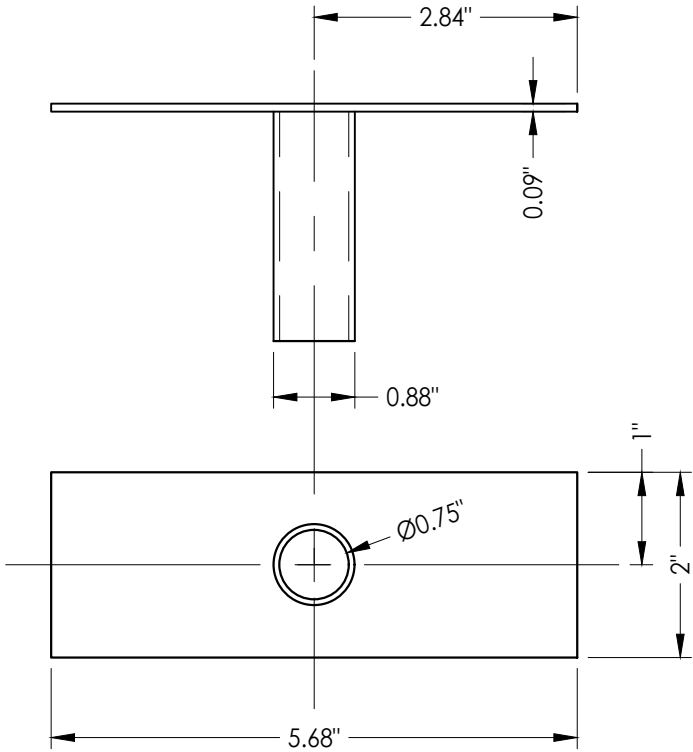
CHK. BY: LFS

DRAWING NO.:

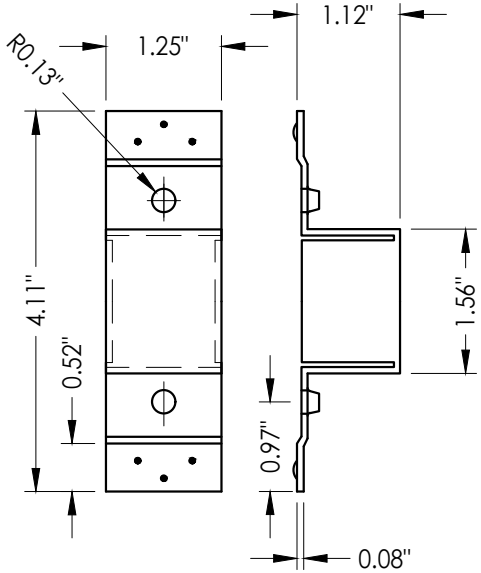
FL-12186.7

SHEET 8 OF 10

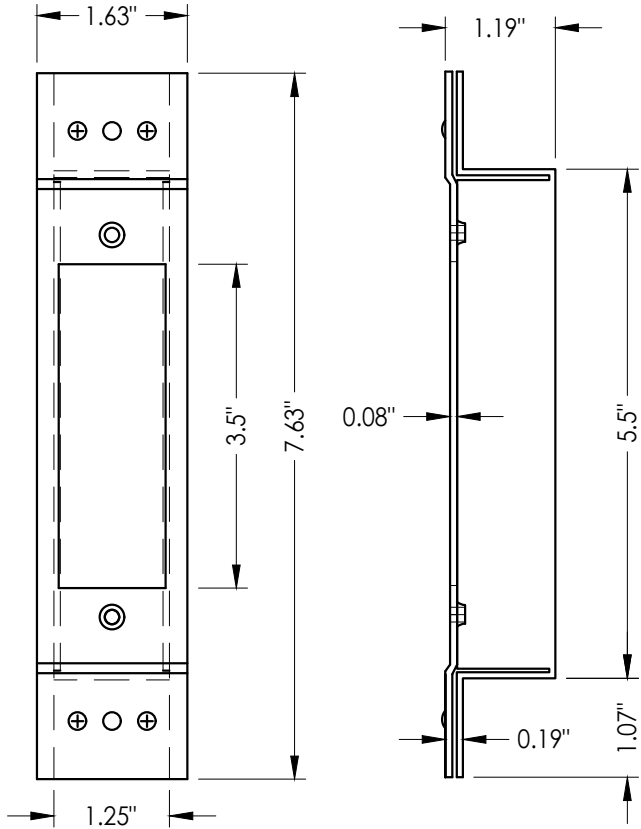
G:\2023 FBC Drawings 7-20-26\Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg



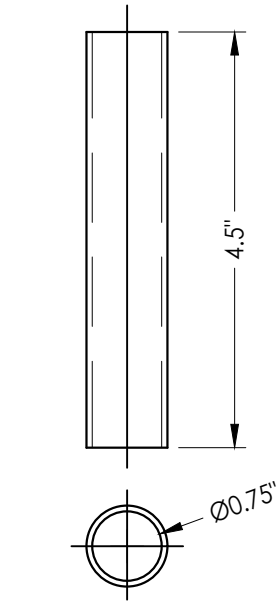
9 TUBE ANCHOR



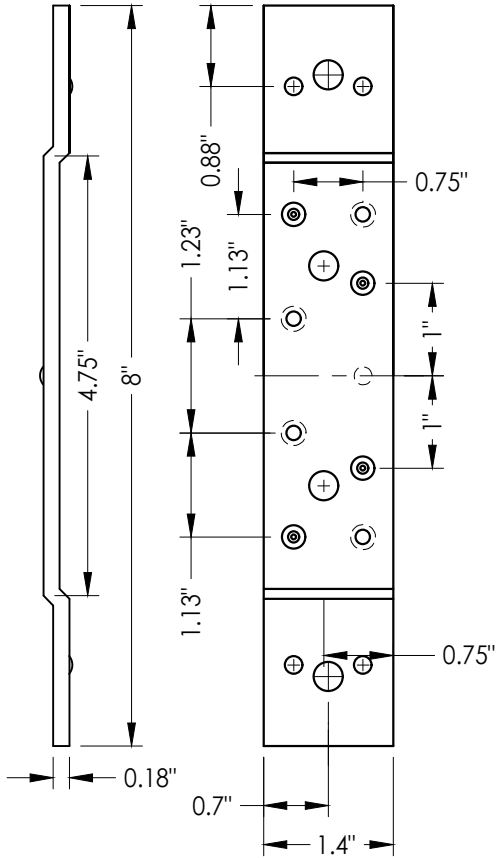
19 DEADBOLT STRIKE REINFORCEMENT



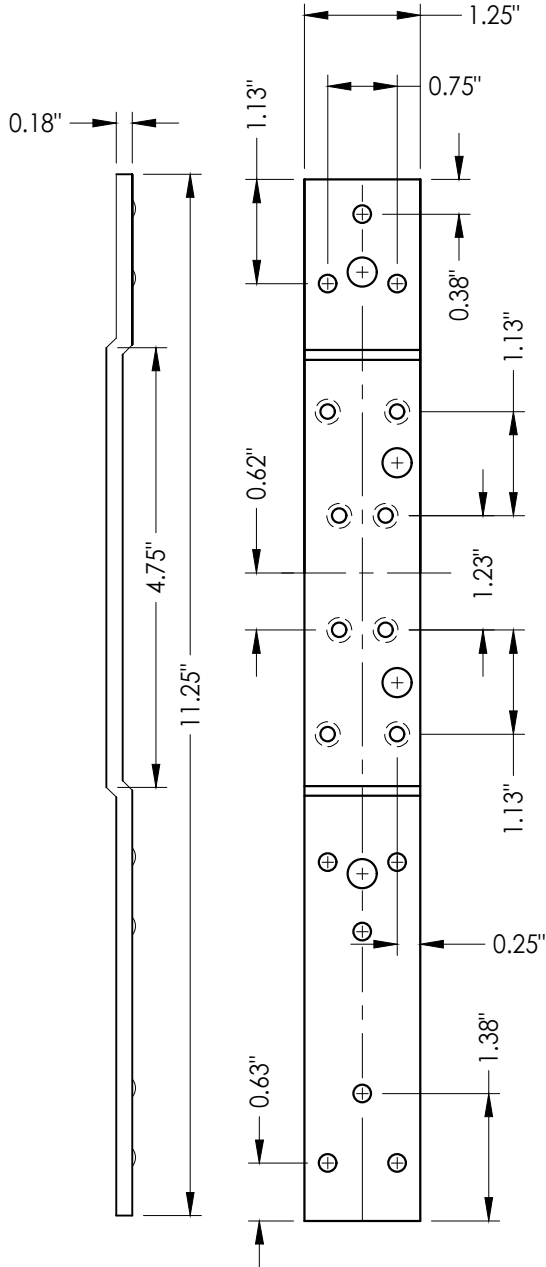
27 LATCH STRIKE REINFORCEMENT



83 SILL TUBE ANCHOR



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



22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge

DATE: 11/3/08

SCALE: N.T.S.

DWG. BY: AL

CHK. BY: LFS

DRAWING NO.: FL-12186.7

SHEET 9 of 10

PRODUCT:

"N" STEEL DOOR

PART OR ASSEMBLY:

COMPONENTS

Documents Prepared By:

Lyndon F. Schmidt
P.E. No. 43409

RW BUILDING CONSULTANTS, INC.

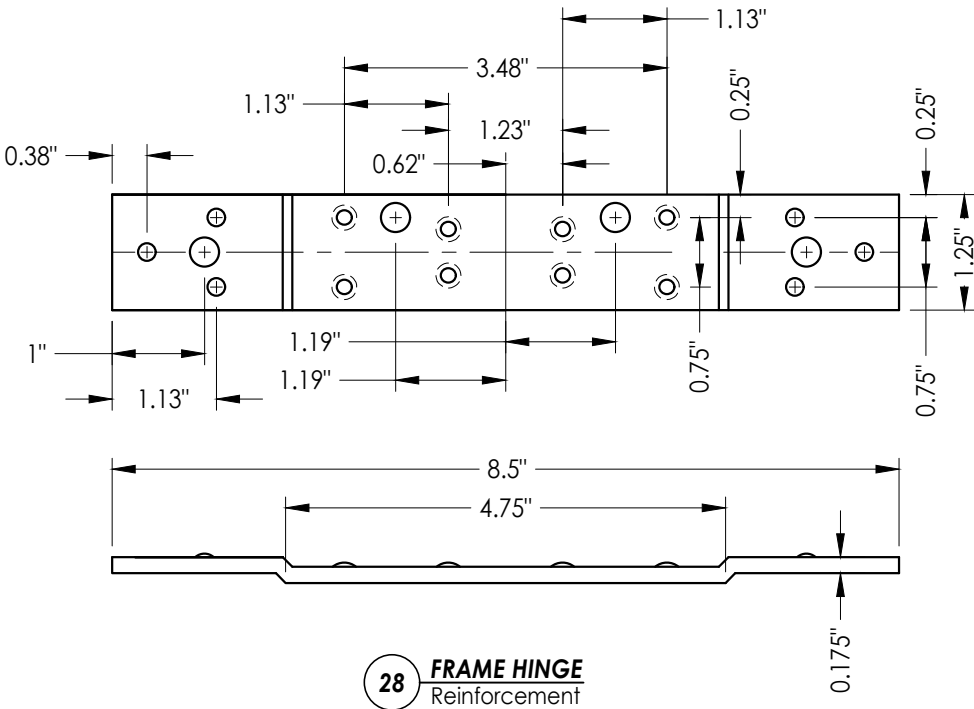
P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

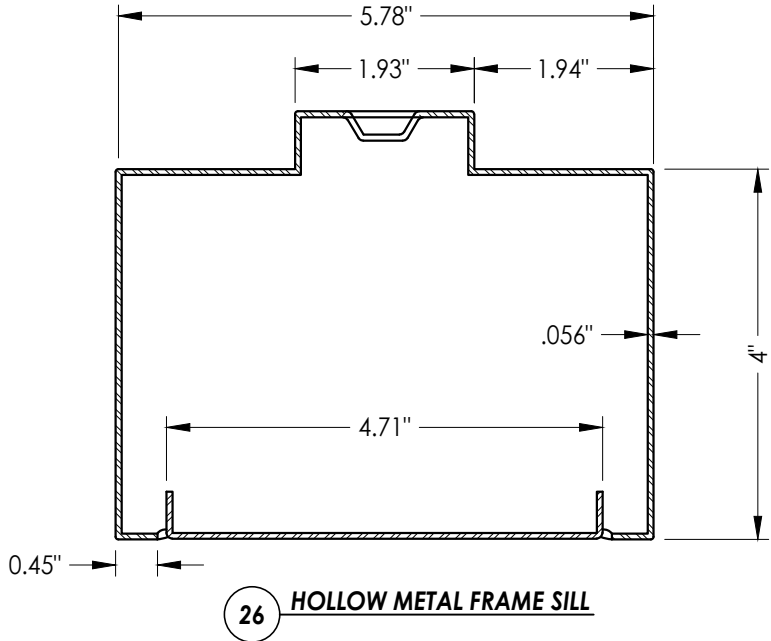
FBPE Registry No. 9813

G:\2023 FBC Drawings 7-20-26Metal Mfg Industries\FL-12186 R5\12186.1-8.dwg

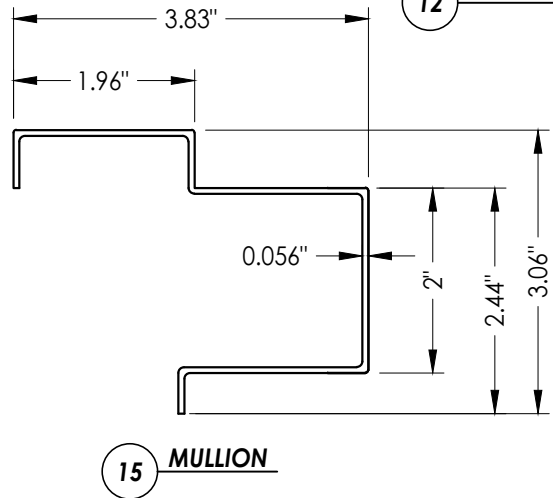
BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-	23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	24	WEATHER STRIP (THRESHOLD)	NEOPRENE
H	1/4" x 1-3/4" ITW PFH CONCRETE SCREW		25	FRAME 5-3/4" X 2" MIN. (0.056" THK) BY MMI	STEEL
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL	26	FRAME SILL 5-3/4" X 4" MIN. (0.056" THK) BY MMI	STEEL
M	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL	27	LATCH STRIKE REINFORCEMENT	STEEL
N	1/2" X 8" HH SCREW-BOLT+ CONC. ANCHOR (DeWALT/POWERS)	STEEL	28	FRAME HINGE REINFORCEMENT	STEEL
1	"N" OPAQUE STEEL DOOR PANEL	-	29	COLUMBIA DOOR BOTTOM SWEEP #2580	ALUMINUM
2	DOOR SKIN (0.042" THK. STEEL, Fy = 40,300 PSI MIN.)	STEEL	40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE	41	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #950	ALUMINUM
4	DOOR TOP & BOTTOM CLOSER	STEEL	45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
5	LOCK BOX REINFORCEMENT	STEEL	46	#6 X 3/4" PHILIPS HEAD SMS	STEEL
6	CLOSER REINFORCEMENT	STEEL	51	L-CHANNEL GLASS STOP	STEEL
8	#12-24 x 1/2" SELF TAPPER	STEEL	52	#8 X .5" HH SELF DRILLING SCREW	STEEL
9	TUBE ANCHOR	STEEL	53	U-CHANNEL GLASS STOP	STEEL
10	#12-24 x 1.0" COMBINATION MACHINE / WOOD SCREW	STEEL	54	#8 X 1.25" PFH SMS	STEEL
12	MULLION Z BRACKET	STEEL	70	SCHLAGE LOCK SET ASSEMBLY ND53PD	STEEL
14	COLUMBIA ADA THRESHOLD #6510	ALUMINUM	71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
15	MULLION MIN. (0.056" THK) BY MMI	STEEL	72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
16	ANSI LATCH STRIKE	STEEL	76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
17	DEADBOLT STRIKE	STEEL	77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
19	DEADBOLT STRIKE REINFORCEMENT	STEEL	78	OUTSWING THRESHOLD QOSH BY DLP	ALUM/WOOD
20	WEATHER-STRIP	NEOPRENE	79	WEATHER-STRIP	FOAM
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL	81	DOW 995 STRUCTURAL SILICONE	SILICONE
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL	82	GLASS SPACER	ALUMINUM
			83	SILL TUBE ANCHOR	STEEL



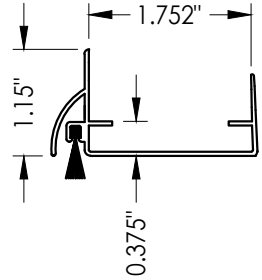
28 **FRAME HINGE**
Reinforcement



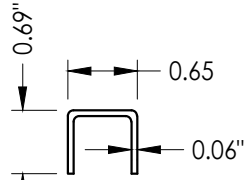
26 **HOLLOW METAL FRAME SILL**



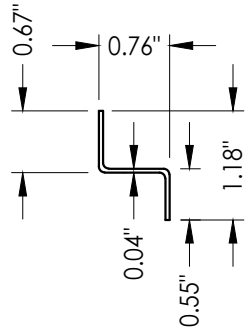
15 **MULLION**



45 **DOOR SWEEP**



53 **GLASS STOP**



12 **MULLION Z BRACKET**

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: MMI "N" STEEL DOOR,		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS	
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC LFS
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC LFS
3	7/30/20	UPDATE TO 7th ED. (2020)	FBC DAC
2	7/18/17	UPDATE TO 6TH ED. (2017)	FBC LFS
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC JK
NO.	DATE		BY
			REVISIONS
DATE: 11/3/08			
SCALE: N.T.S.			
DWG. BY: AL			
CHK. BY: LFS			
DRAWING NO.: FL-12186.7			
SHEET 10 OF 10			