



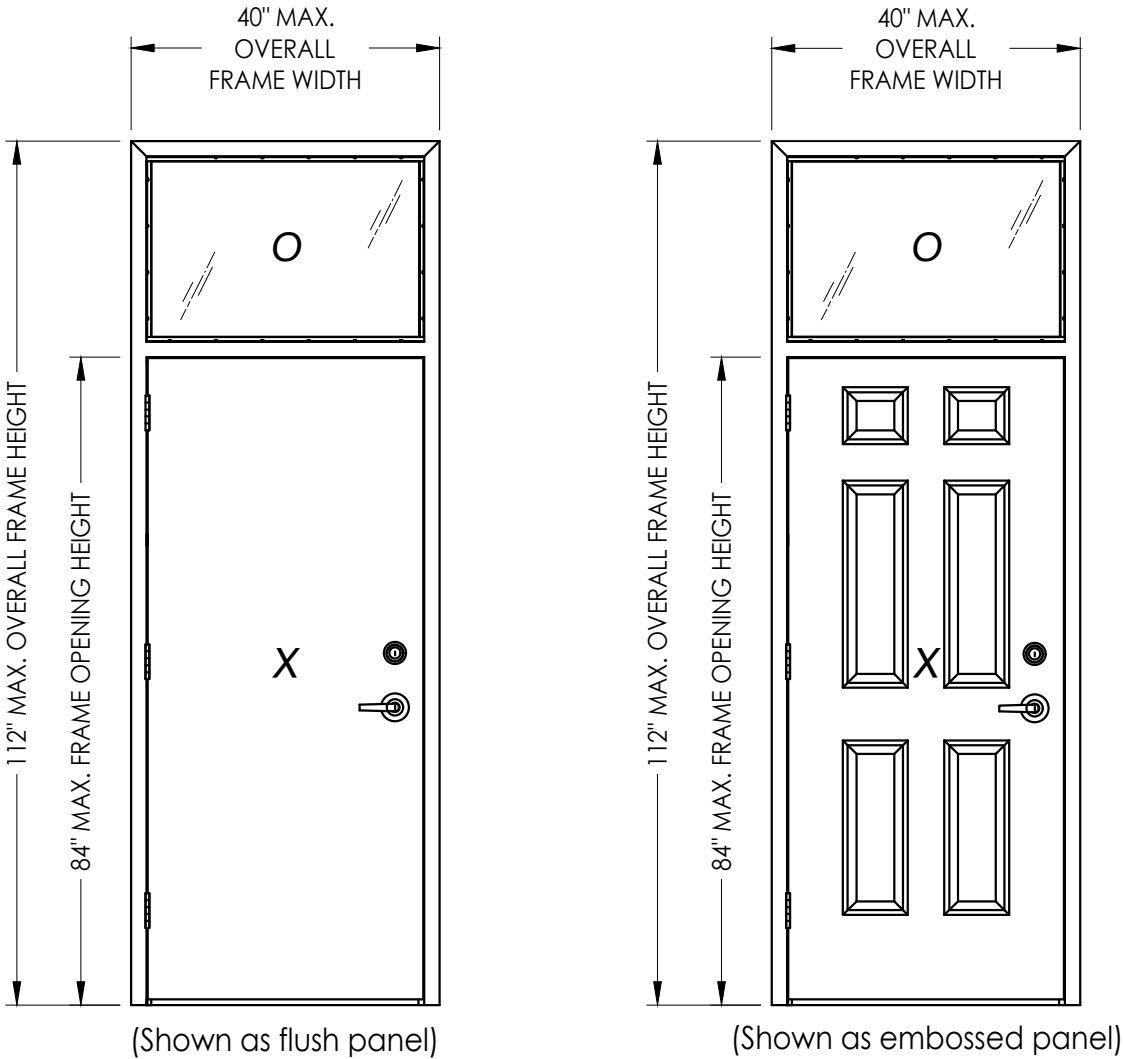
PRIV. DE RIO SANTIAGO #30
COL. LA RAZA
SOLEDAD DE GRACIANO SANCHEZ
SAN LUIS POTOSI, C.P. 78433

"N" SERIES COMMERCIAL
STEEL DOOR w/ TRANSOM
INSWING / OUTSWING
"NON-IMPACT"

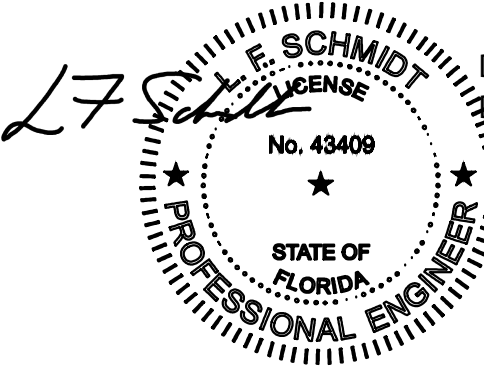
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) 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 is required to be protected with an impact resistant covering that complies with Section 1609.1.2 of the FBC and Section 1609.1.2.2 of the FBC.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

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	Anchoring details
7	Glazing detail & components
8	Bill of materials & components



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



Digitally signed by Lyndon F Schmidt
Date: 2026.07.01 14:50:38 -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

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:
TYPICAL ELEVATIONS, DESIGN
PRESSURES & GENERAL NOTES

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.

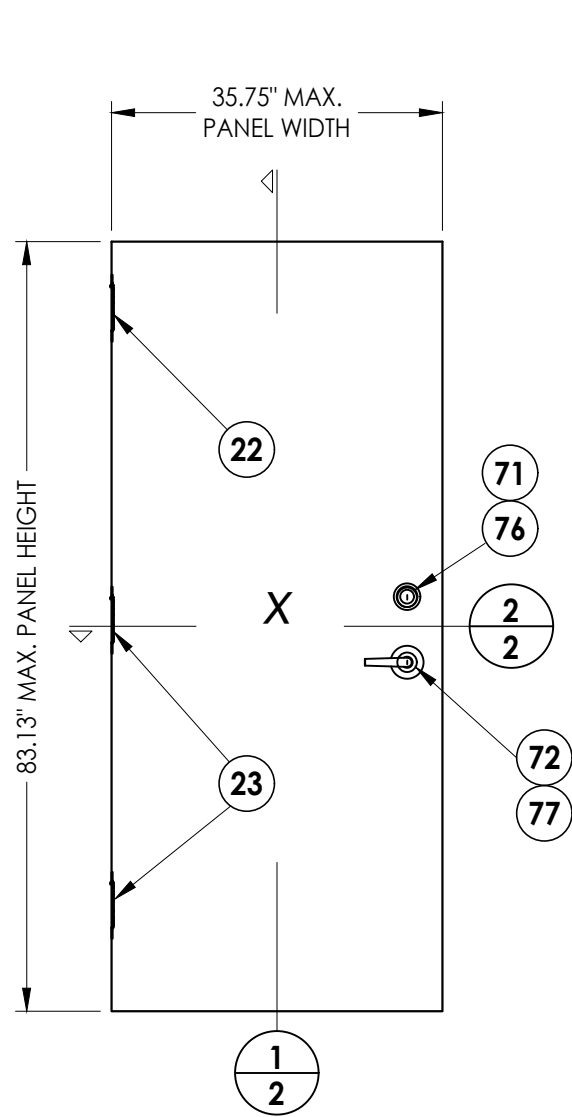
DWG. BY: AL

CHK. BY: LFS

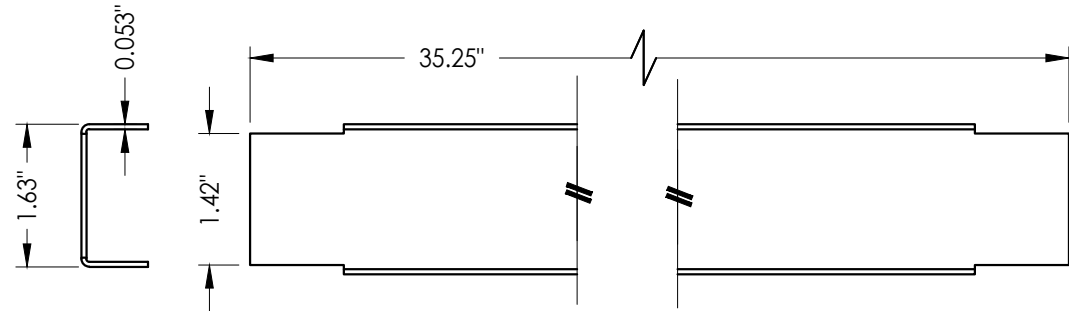
DRAWING NO.: FL-12186.1

SHEET 1 OF 8

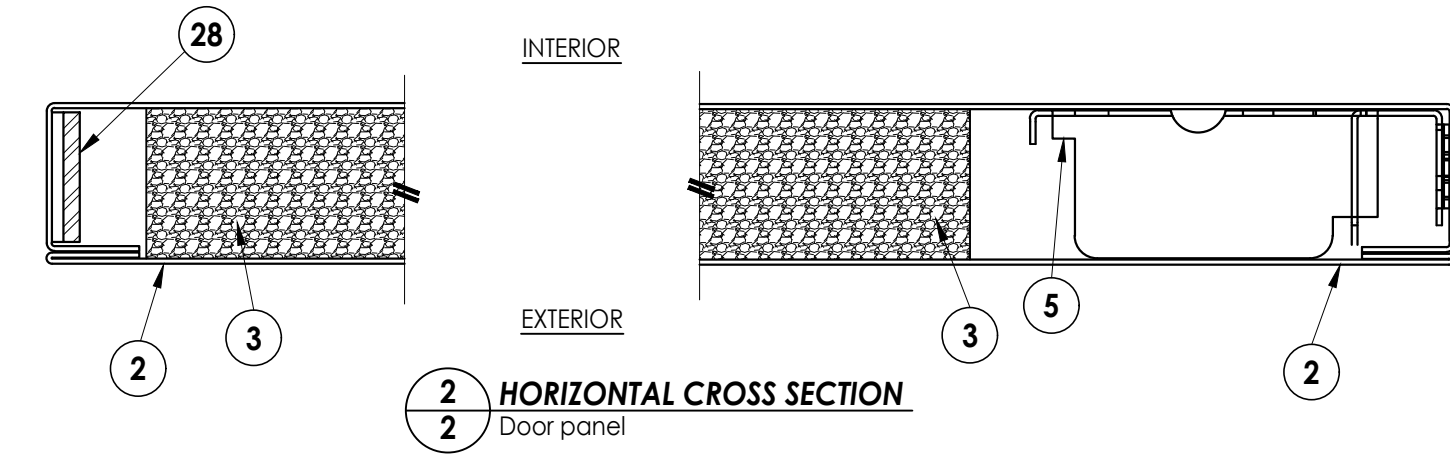
G:\2023 FBC Drawings 1.26.26\Metal Mfg Industries\FL-12186 RA\12186.1-8.dwg



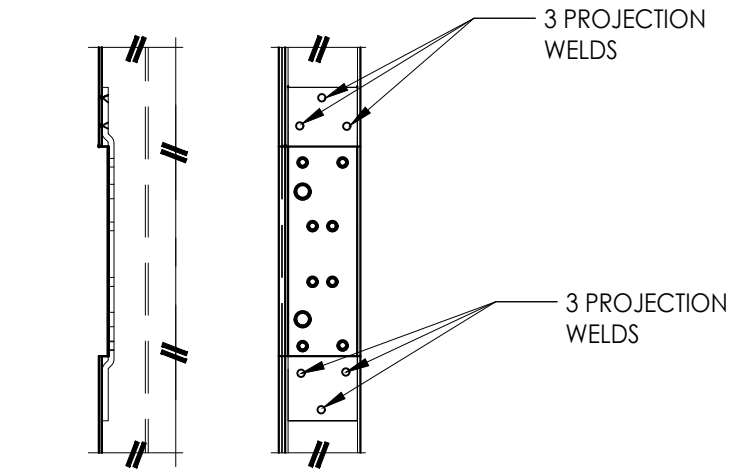
1 "N" OPAQUE STEEL DOOR PANEL



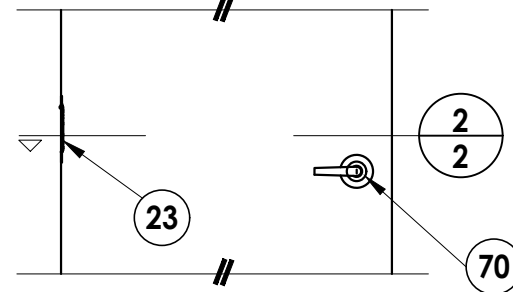
4 DOOR TOP & BOTTOM CLOSER



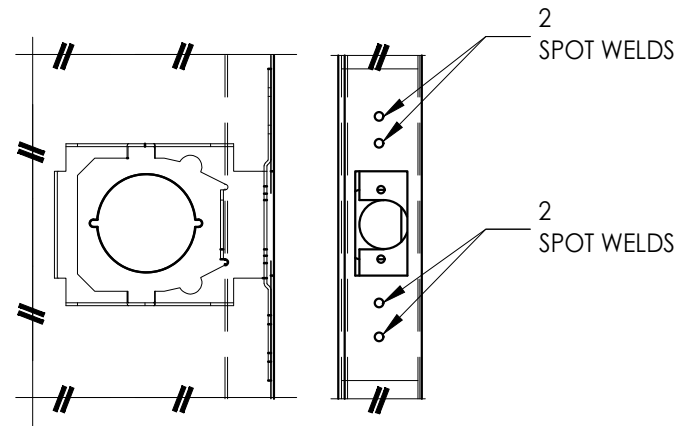
2 HORIZONTAL CROSS SECTION
2 Door panel



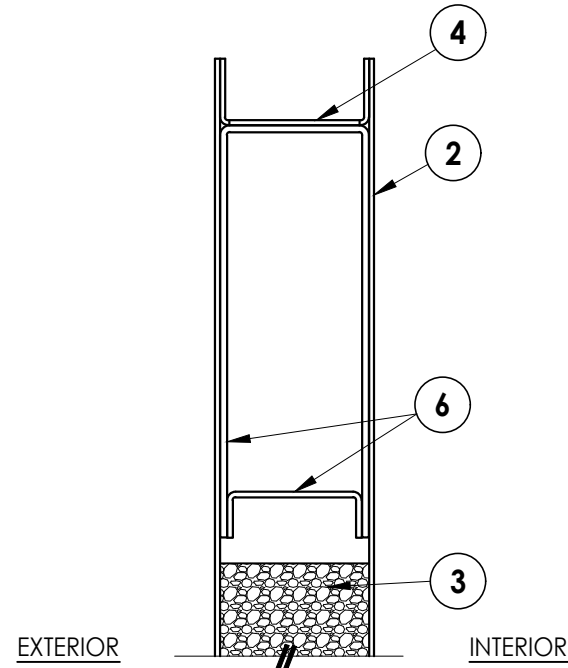
23 DOOR HINGE REINFORCEMENT



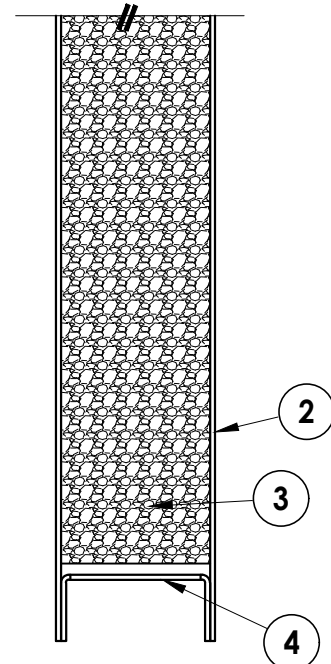
70 OPTIONAL LATCH ONLY



5 LOCK BOX REINFORCEMENT

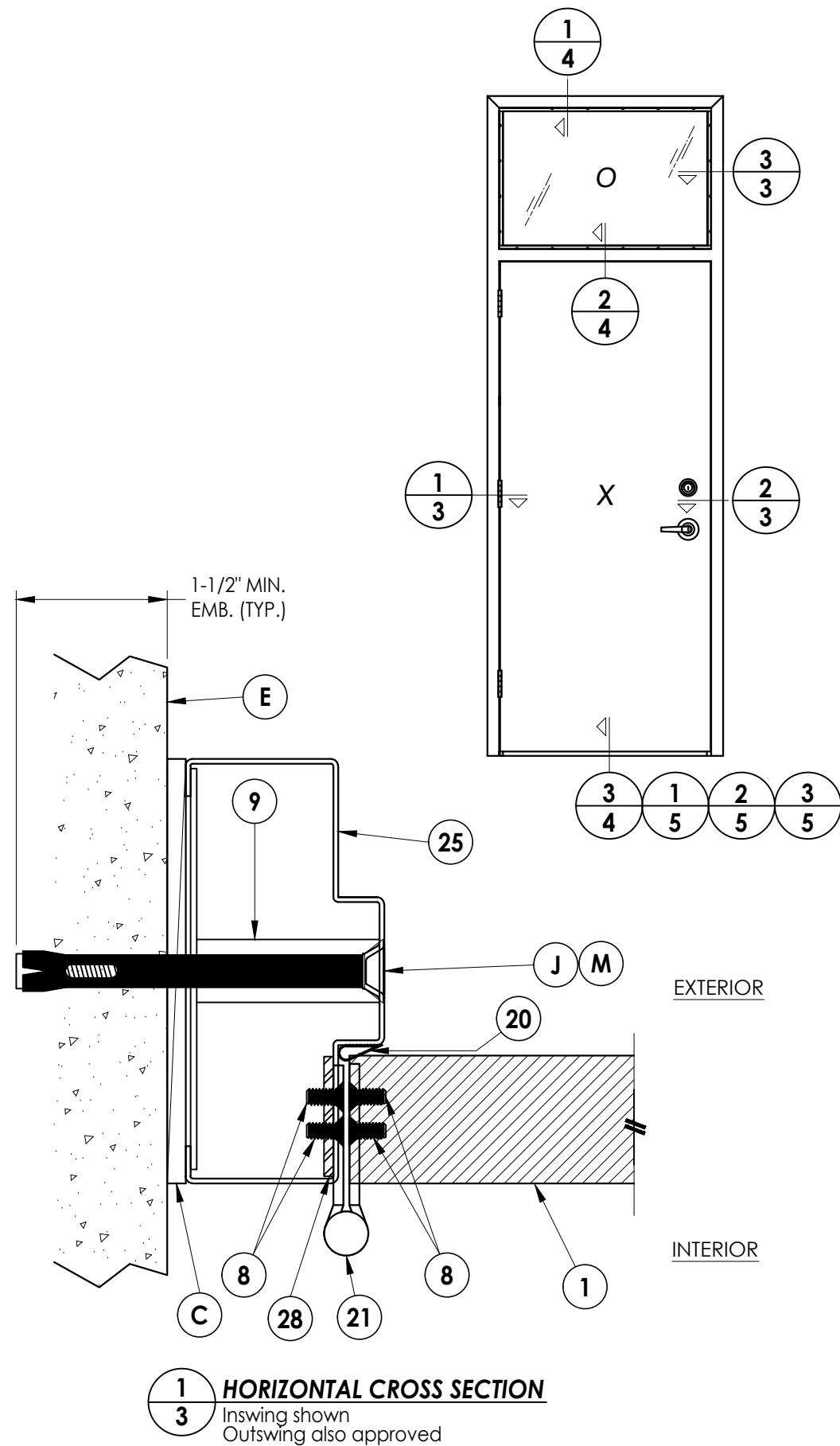


1 VERTICAL CROSS SECTION
2 Door panel

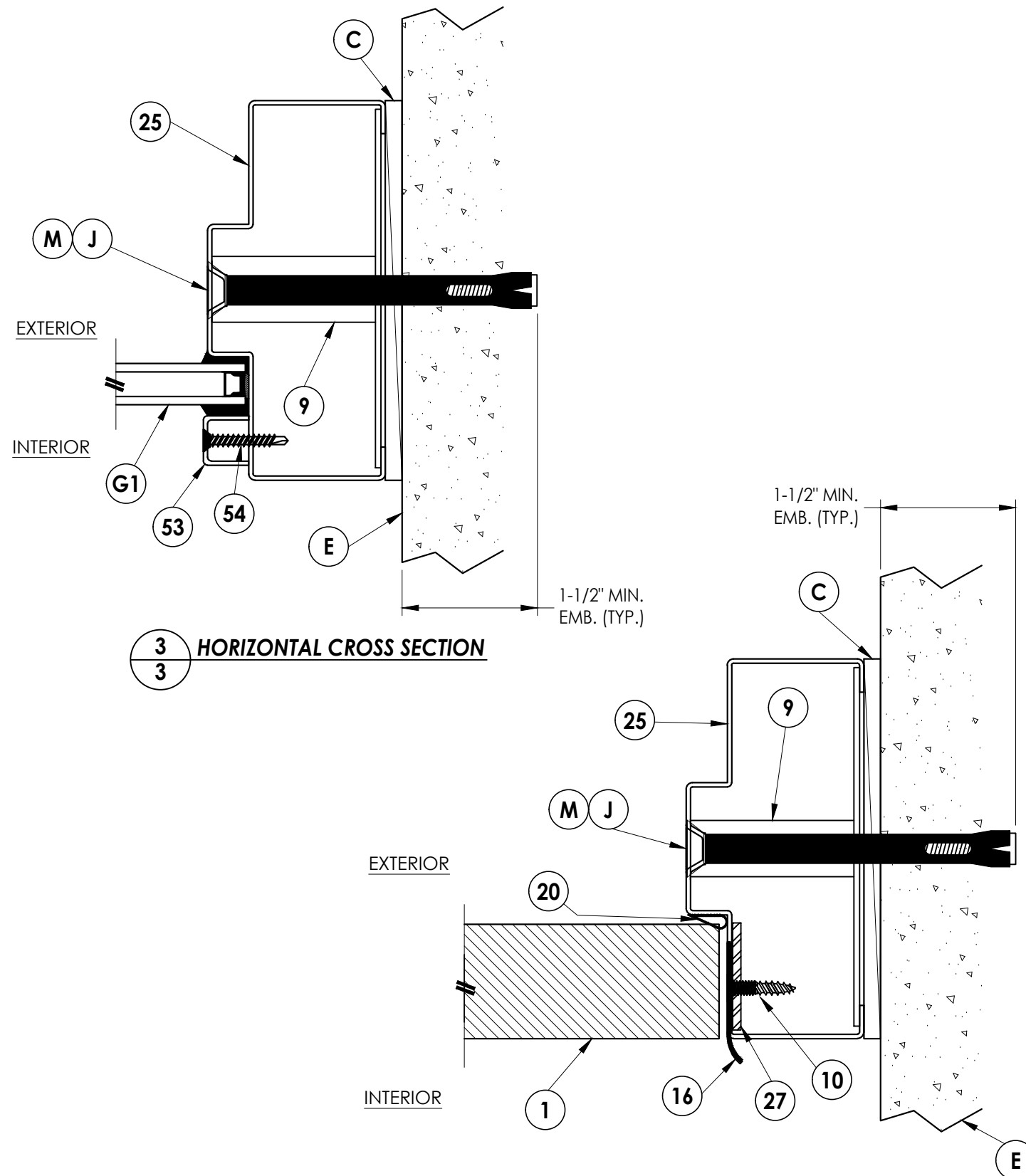


NOTE: ALL WELDING TO CONFORM w/ AMERICAN WELDING SOCIETY, ANSI/AWS AS PER FBC SECTION 2214.3.4.

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
4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC
3	7/30/20	UPDATE TO 7th ED. (2020)	FBC
2	7/18/17	UPDATE TO 6TH ED. (2017)	FBC
1	10/14/16	UPDATE 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-12186.1			
SHEET 2 OF 8			



1 **HORIZONTAL CROSS SECTION**
3 Inswing shown
 Outswing also approved



2 **HORIZONTAL CROSS SECTION**

3 Inswing shown Outswing also approved

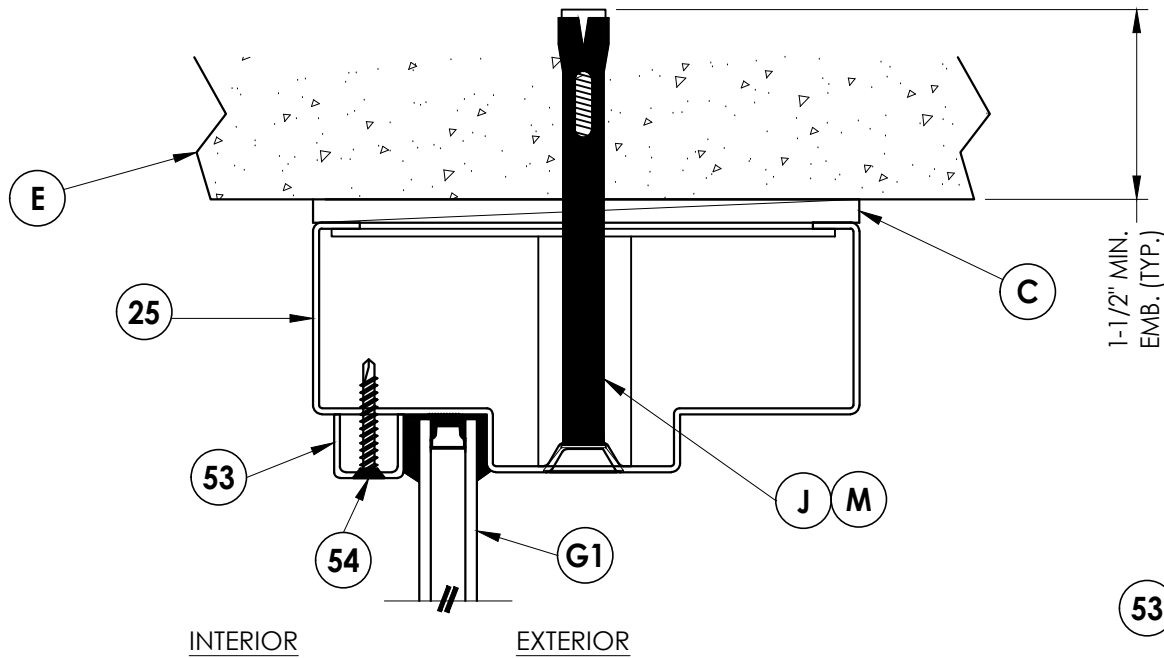
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4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
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2	7/18/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK
NO.	DATE	REVISIONS		

DATE: 11/3/08	
SCALE: N.T.S.	
DWG. BY:	AL
CHK. BY:	LFS
DRAWING NO.: FL-12186.1	
SHEET	3 OF 8

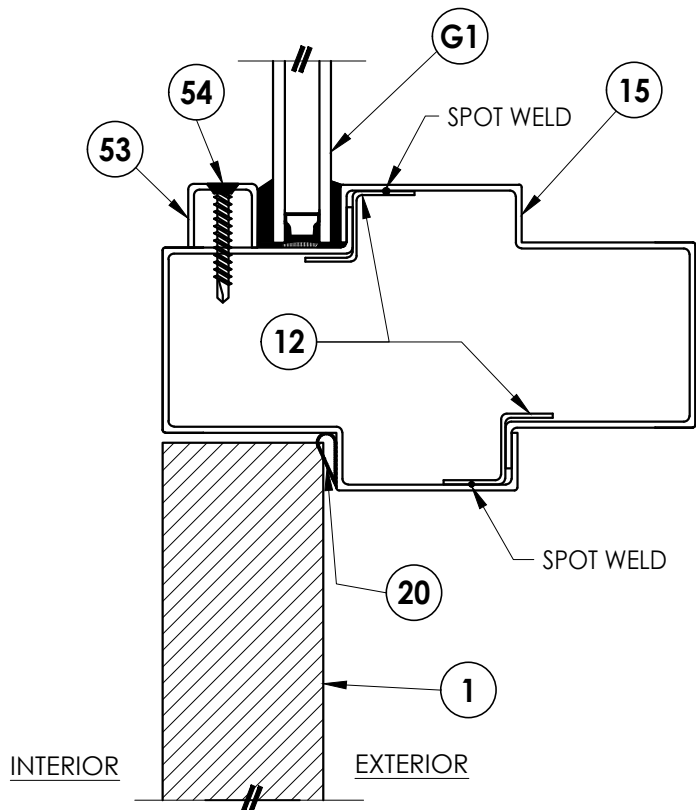
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

R^W BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

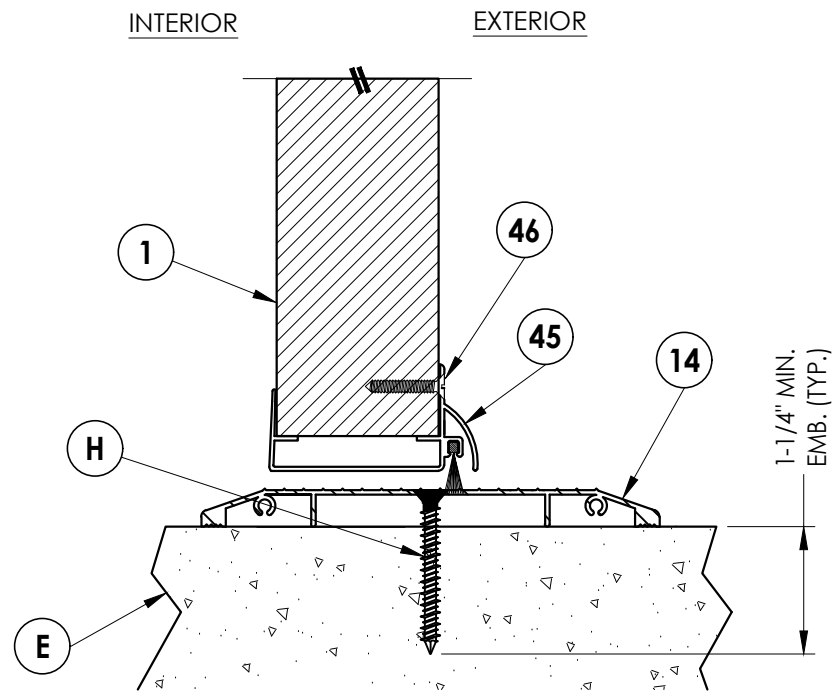
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1
4 **VERTICAL CROSS SECTION**
Inswing shown
Outswing also approved



2
4 **VERTICAL CROSS SECTION**
Inswing shown
Outswing also approved



3
4 **VERTICAL CROSS SECTION**
Optional inswing shown

NO.	DATE	REVISIONS					
		BY	JK	LFS	FBC	(2014)	FBC
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	LFS		

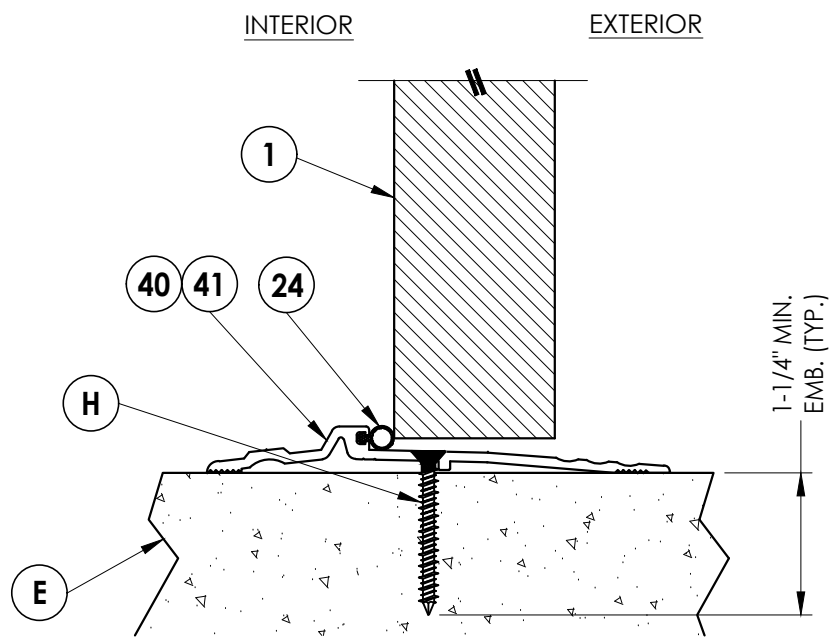
DATE: 11/3/08
SCALE: N.T.S.
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: FL-12186.1
SHEET 4 OF 8

PRODUCT:	MMI "N" STEEL DOOR
PART OR ASSEMBLY:	VERTICAL CROSS SECTIONS

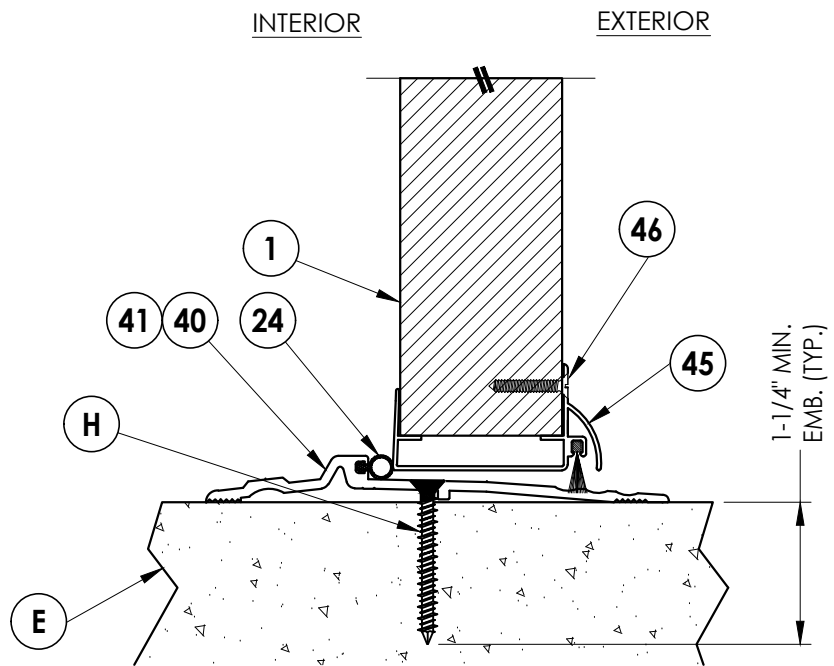
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

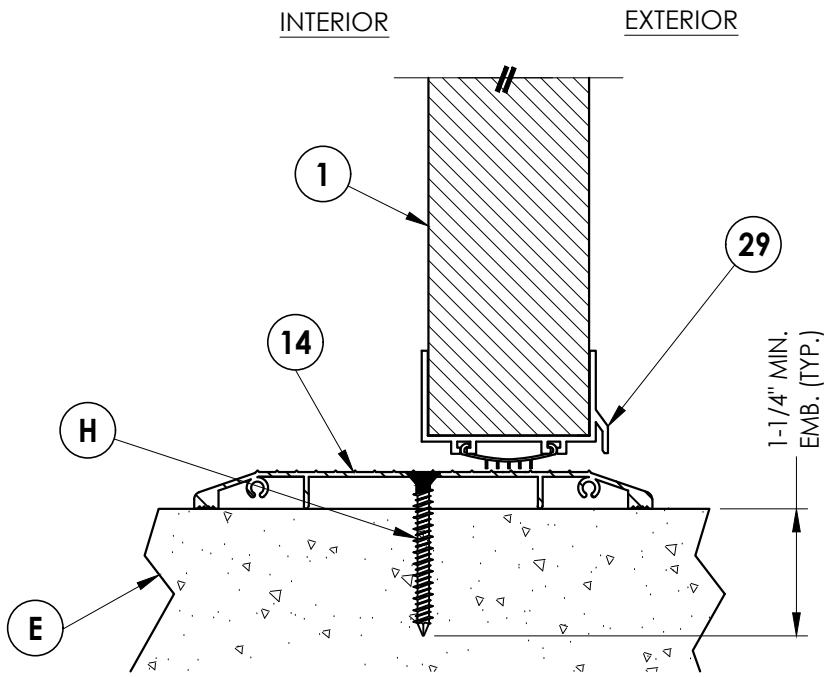
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1
5 **VERTICAL CROSS SECTION**
Optional outswing shown



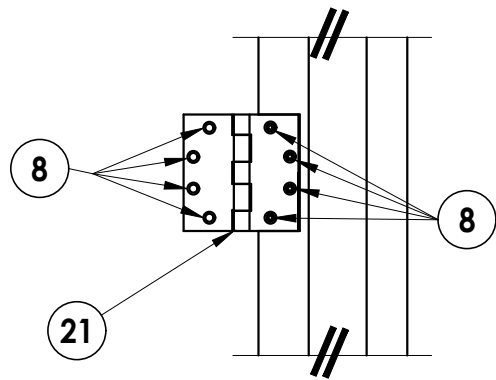
2
5 **VERTICAL CROSS SECTION**
Optional Outswing shown



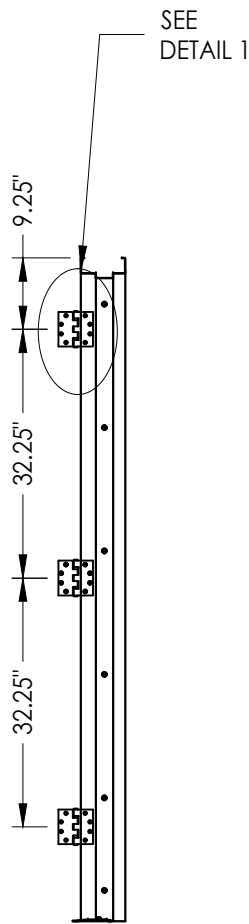
3
5 **VERTICAL CROSS SECTION**
Optional Outswing shown

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: VERTICAL CROSS SECTIONS			
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	REVISIONS		
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			
DATE: 11/3/08							
SCALE: N.T.S.							
DWG. BY: AL							
CHK. BY: LFS							
DRAWING NO.: FL-12186.1							
SHEET 5 OF 8							

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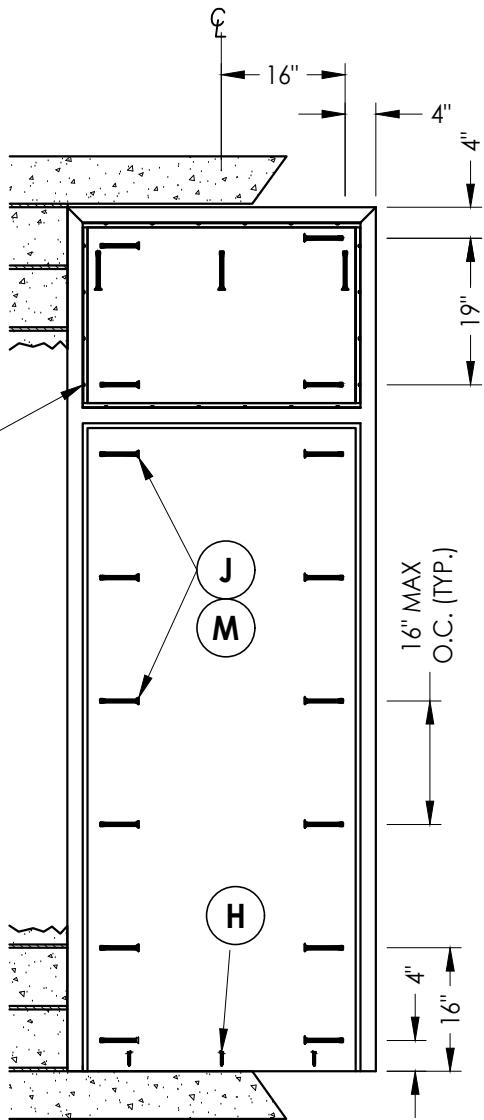


DETAIL 1

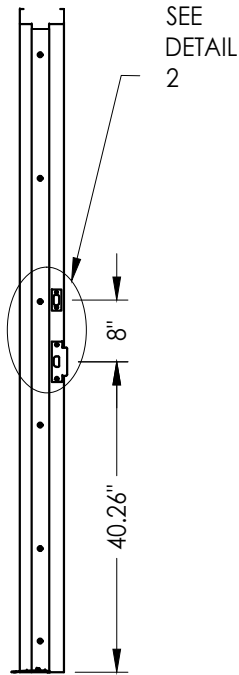


HINGE JAMB

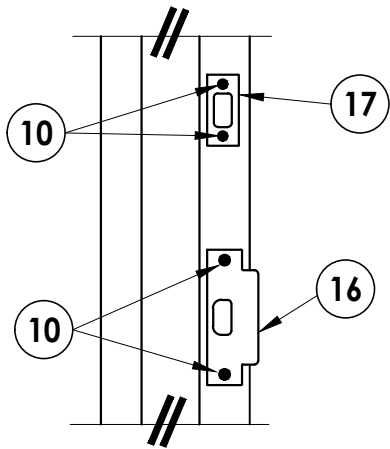
ITEM #54 GLASS STOP
RETAINING SCREWS
3" FROM CORNER &
6" MAX O.C. (TYP.)



FRAME ANCHORING



STRIKE JAMB



DETAIL 2

CONCRETE ANCHOR NOTES:

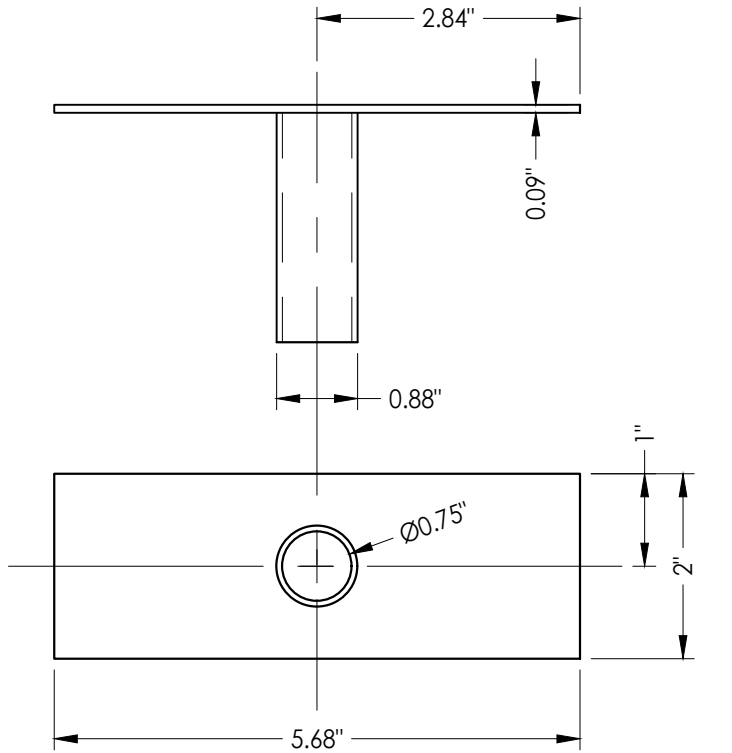
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON 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"

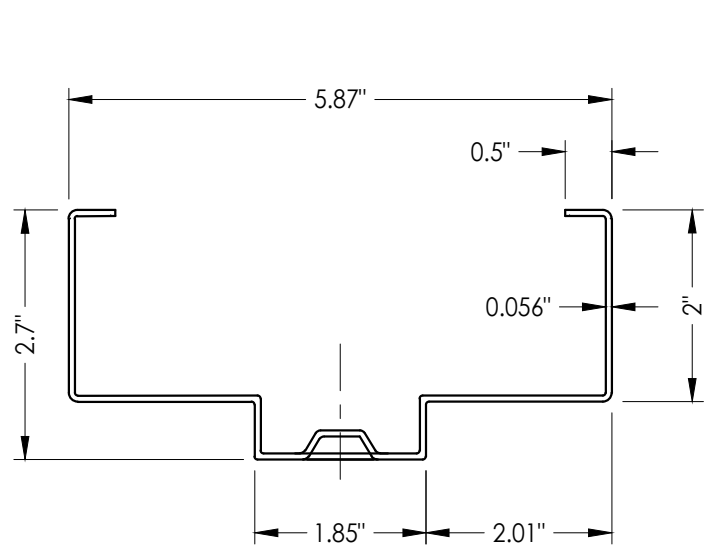
- Embedment may be through 1-1/4" face shell of hollow block.

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		PRODUCT: MMI "N" STEEL DOOR		PART OR ASSEMBLY: ANCHORING DETAILS		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	REVISIONS	NO.	DATE
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			
DATE: 11/3/08							
SCALE: N.T.S.							
DWG. BY: AL							
CHK. BY: LFS							
DRAWING NO.: FL-12186.1							
SHEET 6 OF 8							

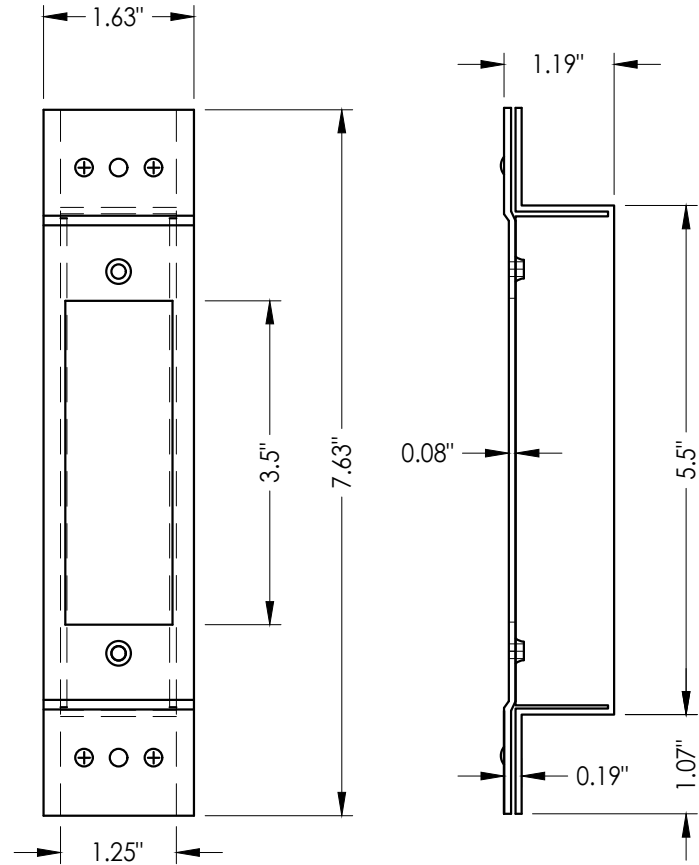
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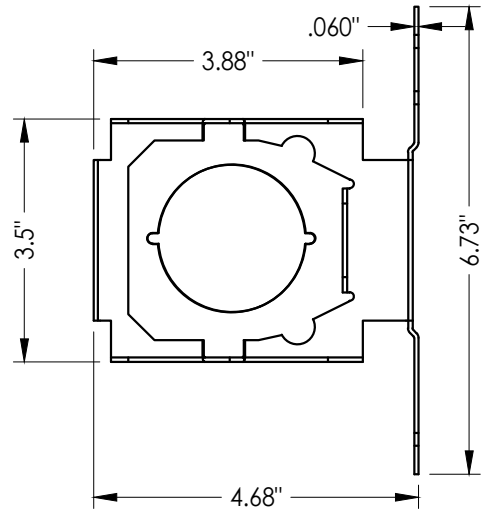
9 TUBE ANCHOR



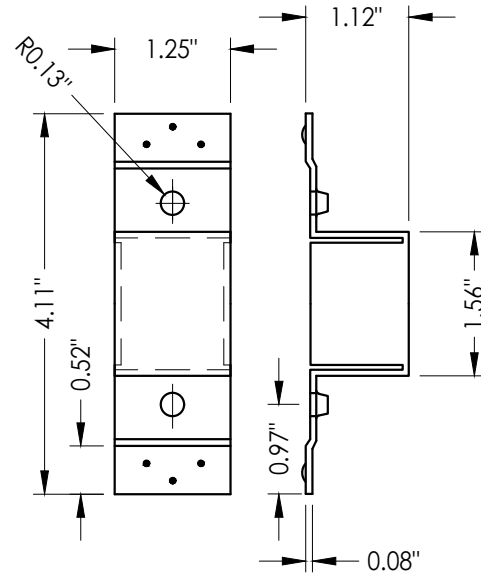
25 HOLLOW METAL FRAME



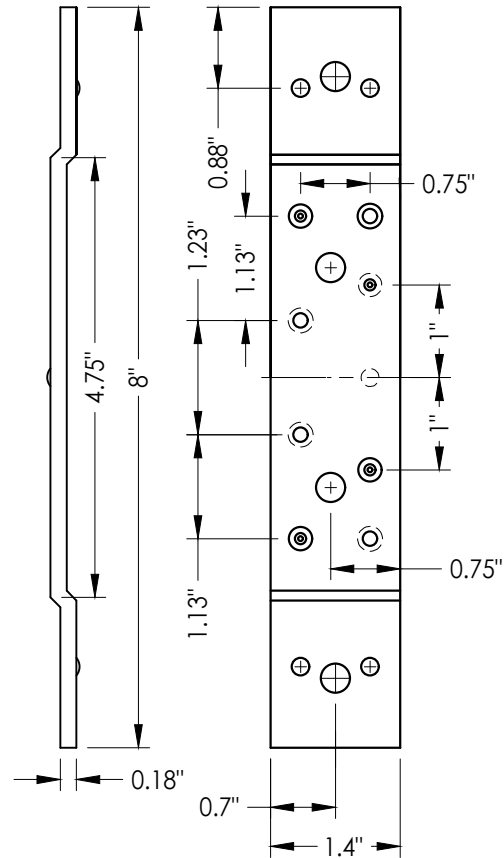
27 LATCH STRIKE REINFORCEMENT



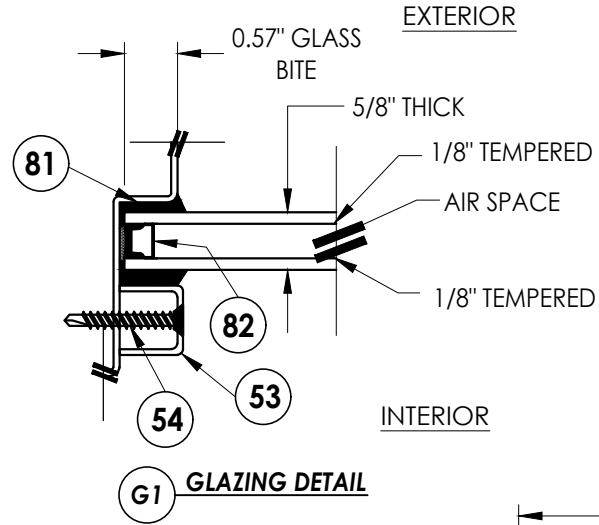
5 LOCK BOX REINFORCEMENT



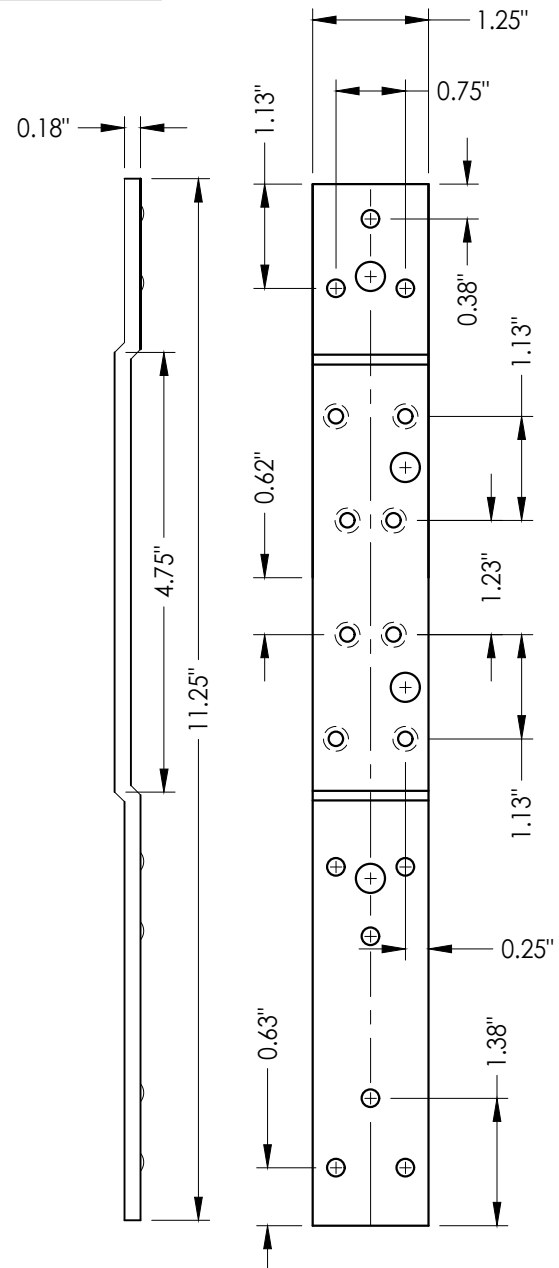
19 DEADBOLT STRIKE REINFORCEMENT



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



G1 GLAZING DETAIL



22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge

NO.	DATE	REVISIONS			
		DATE	BY	JK	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	LFS	

DATE: 11/3/08

SCALE: N.T.S.

DWG. BY: AL

CHK. BY: LFS

DRAWING NO.:

FL-12186.1

SHEET 7 OF 8

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P.E. No. 43409

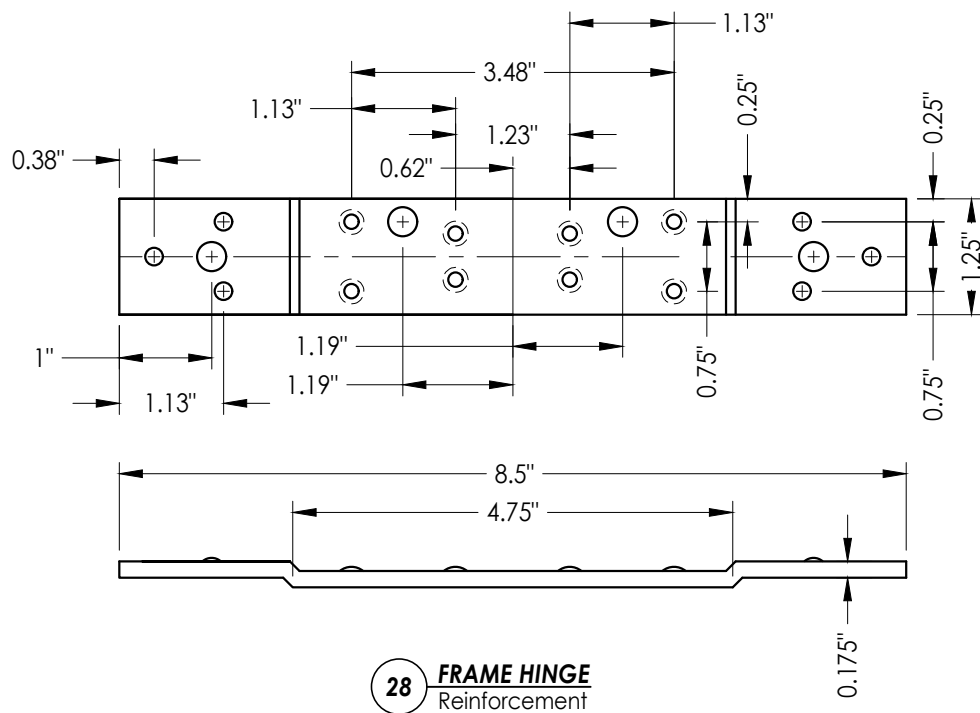
PRODUCT:
MMI
"N" STEEL DOOR

PART OR ASSEMBLY:
GLAZING DETAIL &
COMPONENTS

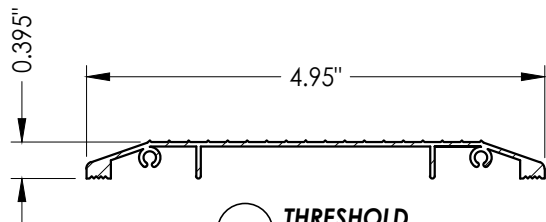
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Vairico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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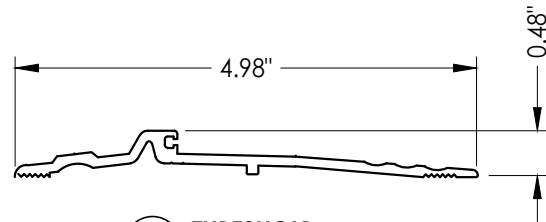
BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-	21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL
H	1/4" x 1-3/4" ITW PFH CONCRETE SCREW	STEEL	23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL	24	WEATHER STRIP (THRESHOLD)	NEOPRENE
M	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL	25	FRAME 5-3/4" X 2" MIN. (0.056" THK) BY MMI	STEEL
1	"N" OPAQUE STEEL DOOR PANEL	-	27	LATCH STRIKE REINFORCEMENT	STEEL
2	DOOR SKIN (0.042" THK. STEEL, Fy = 40,300 PSI MIN.)	STEEL	28	FRAME HINGE REINFORCEMENT	STEEL
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE	29	COLUMBIA DOOR BOTTOM SWEEP #2580	ALUMINUM
4	DOOR TOP & BOTTOM CLOSER	STEEL	40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
5	LOCK BOX REINFORCEMENT	STEEL	41	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #950	ALUMINUM
6	CLOSER REINFORCEMENT	STEEL	45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
8	#12-24 x 1/2" SELF TAPPER	STEEL	46	#6 X 3/4" PHILIPS HEAD SMS	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	81	DOW 995 STRUCTURAL SILICONE	SILICONE
20	WEATHER-STRIP	NEOPRENE	82	GLASS SPACER	ALUMINUM



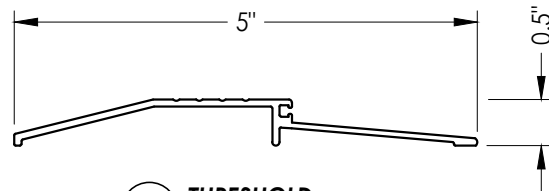
28 **FRAME HINGE**
Reinforcement



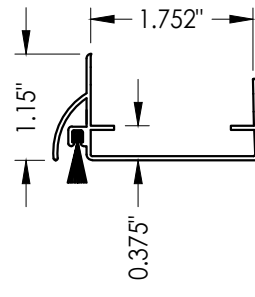
14 **THRESHOLD**



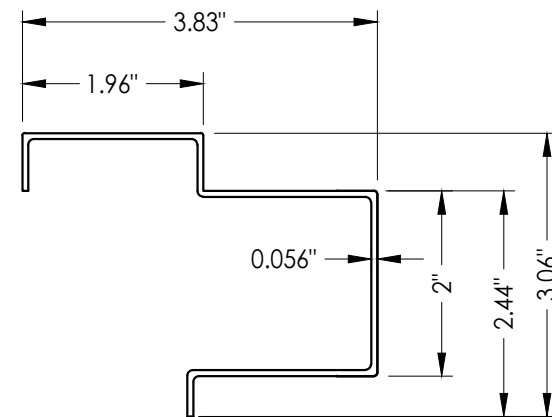
40 **THRESHOLD**



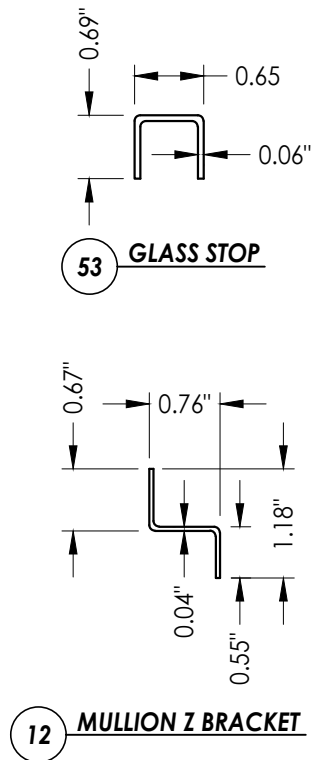
41 **THRESHOLD**



45 **DOOR SWEEP**



15 **MULLION**



12 **MULLION Z BRACKET**

53 **GLASS STOP**

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DATE: 11/3/08			
SCALE: N.T.S.			
DWG. BY: AL			
CHK. BY: LFS			
DRAWING NO.: FL-12186.1			
SHEET 8 OF 8			