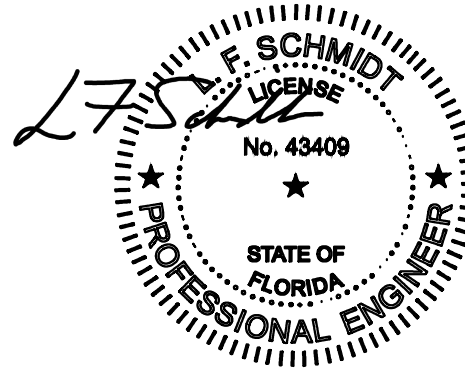




PRIV. DE RIO SANTIAGO #30
COL. LA RAZA
SOLEDAD DE GRACIANO SANCHEZ
SAN LUIS POTOSI, C.P. 78433



Digitally signed by Lyndon F Schmidt
Date: 2026.07.01 14:48:44 -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

"N" SERIES COMMERCIAL STEEL DOOR w/ SIDELITES & 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.

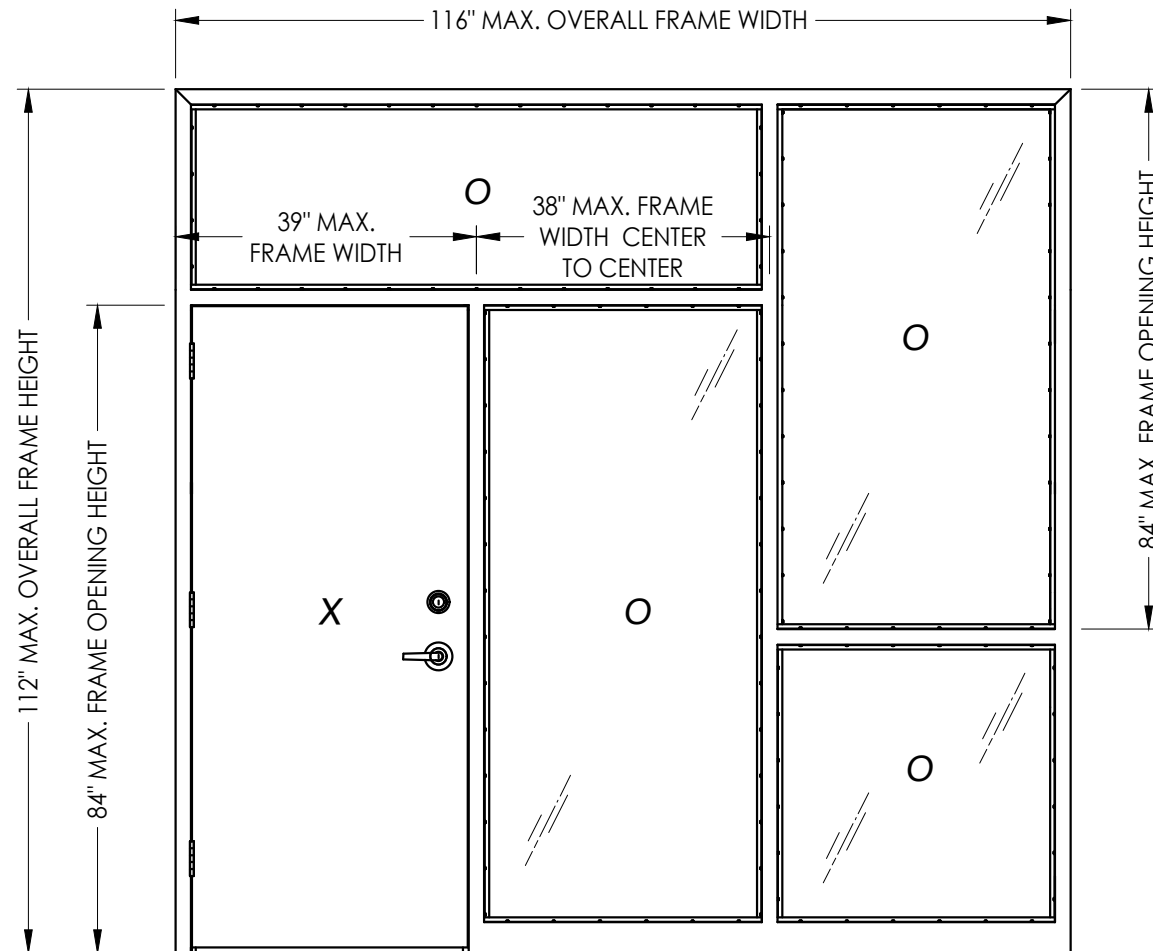


TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel sections 161 lock prep
3	Horizontal cross sections
4	Vertical cross sections
5	Vertical cross sections
6	Vertical cross sections
7	Anchoring details
8	Glazing detail & components
9	Bill of materials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

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

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

PRODUCT:
MMI
"N" STEEL DOOR

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

REVISIONS

DATE: 11/3/08

SCALE: N.T.S.

DWG. BY: AL

CHK. BY: LFS

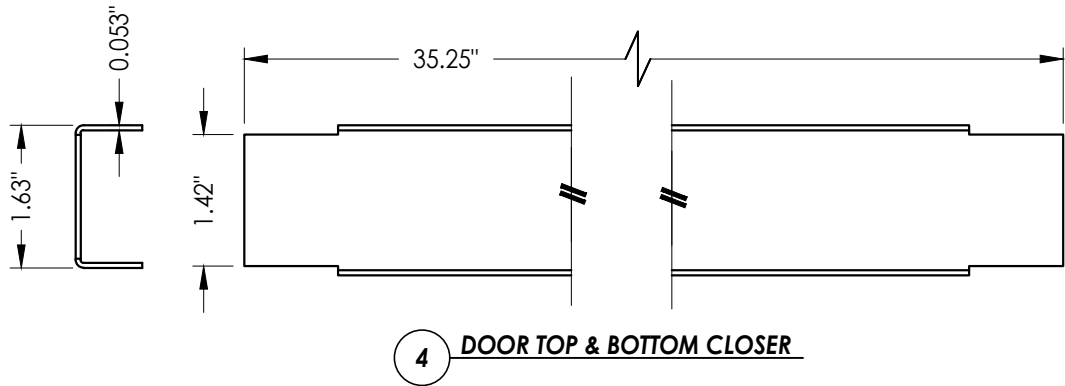
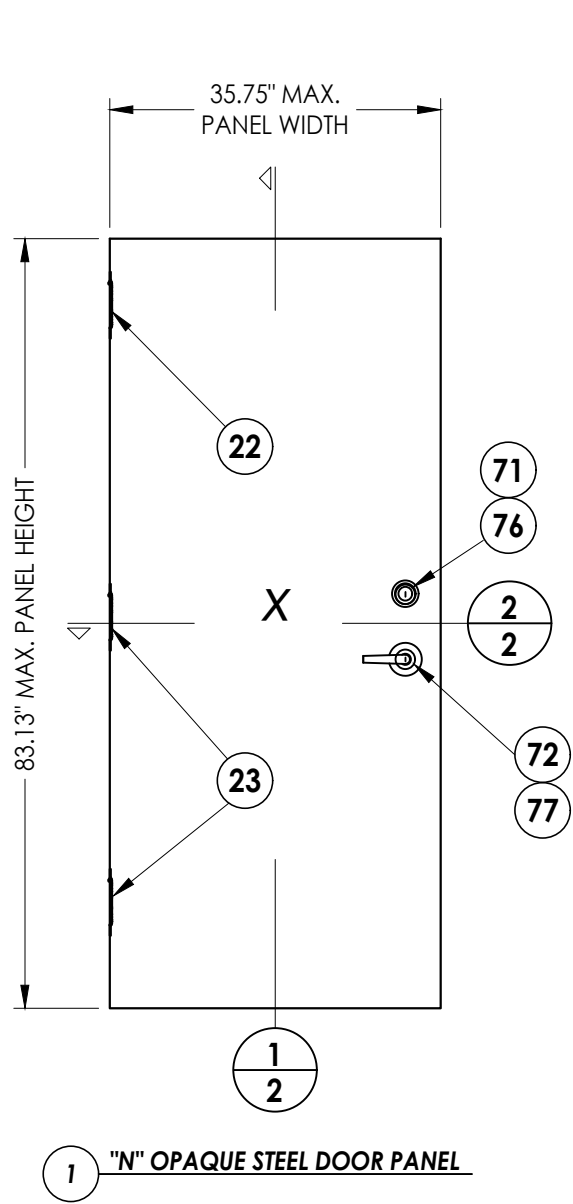
DRAWING NO.:
FL-12186.4

SHEET 1 OF 9

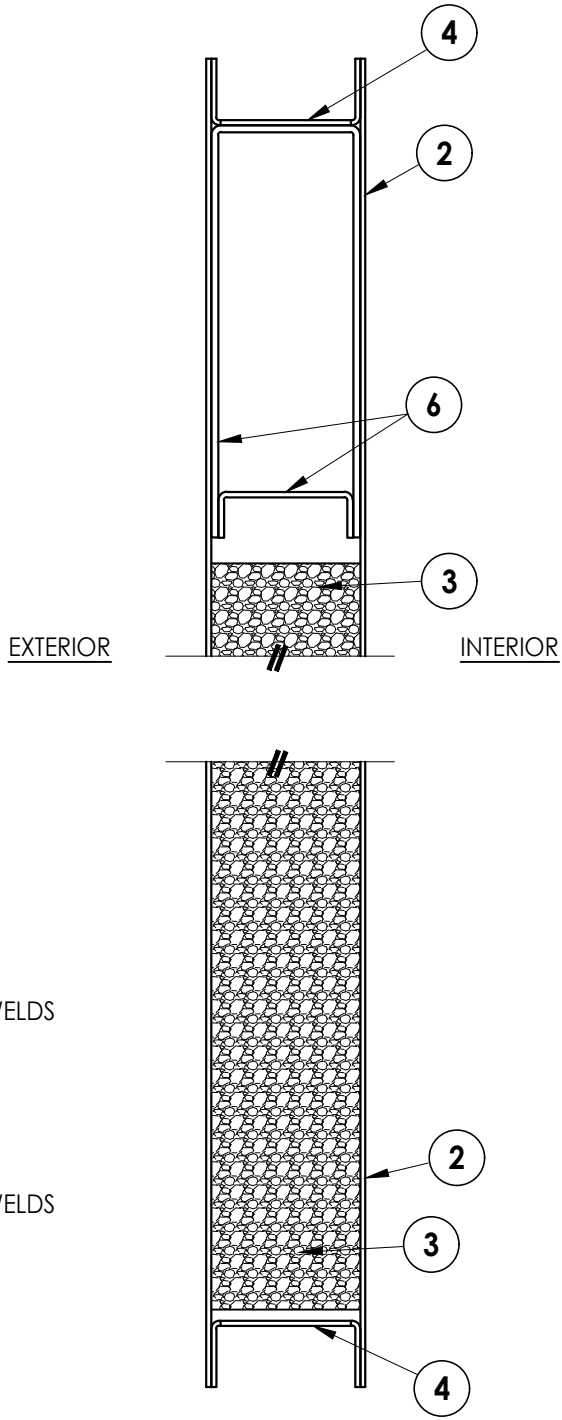
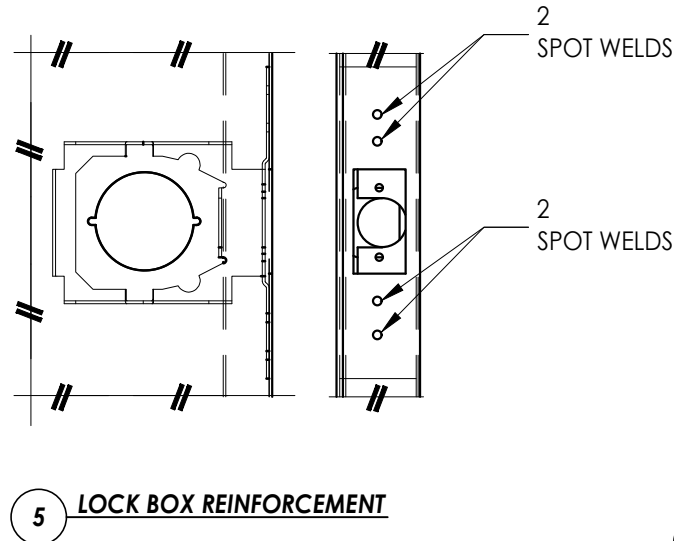
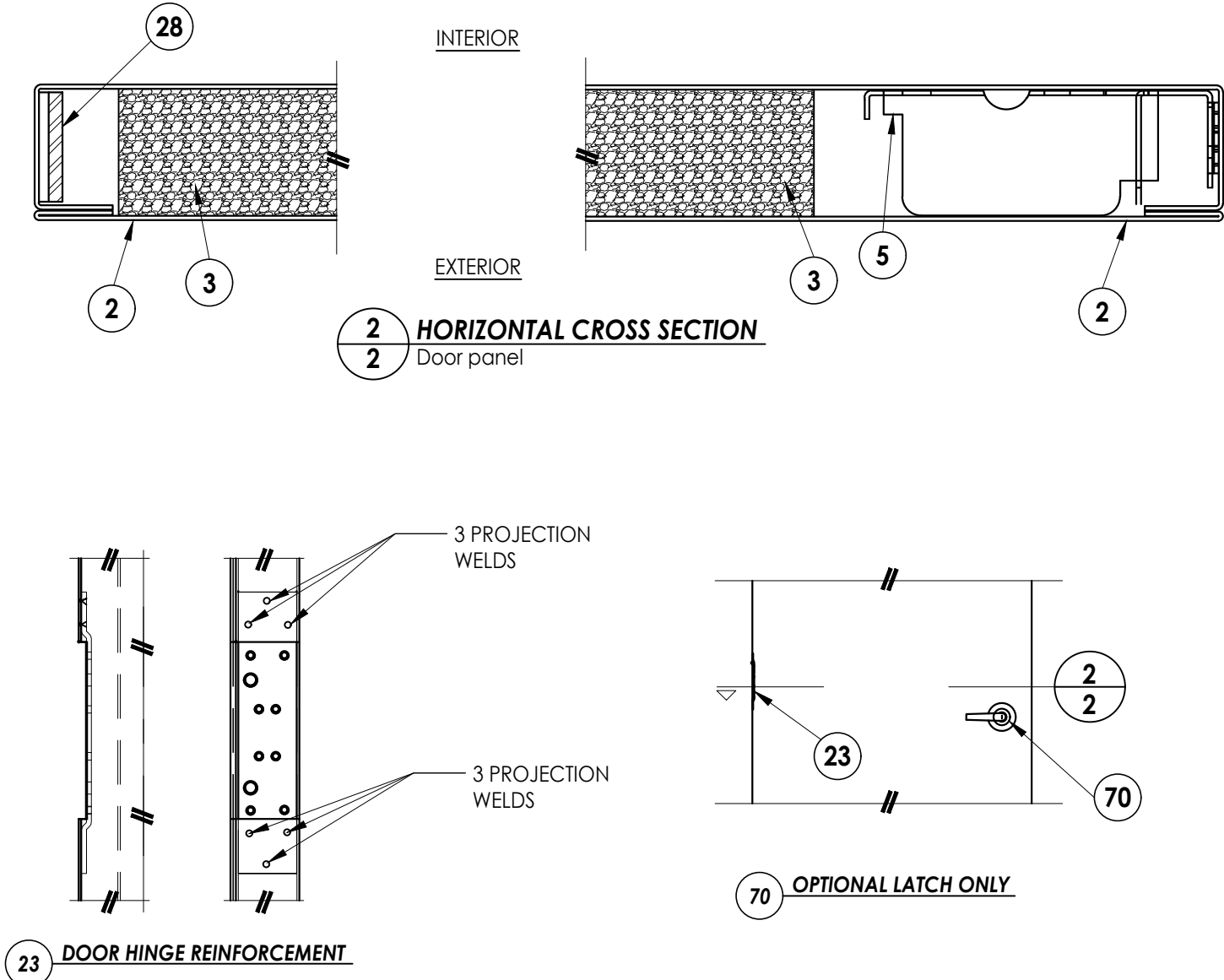
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FBPE Registry No. 9813

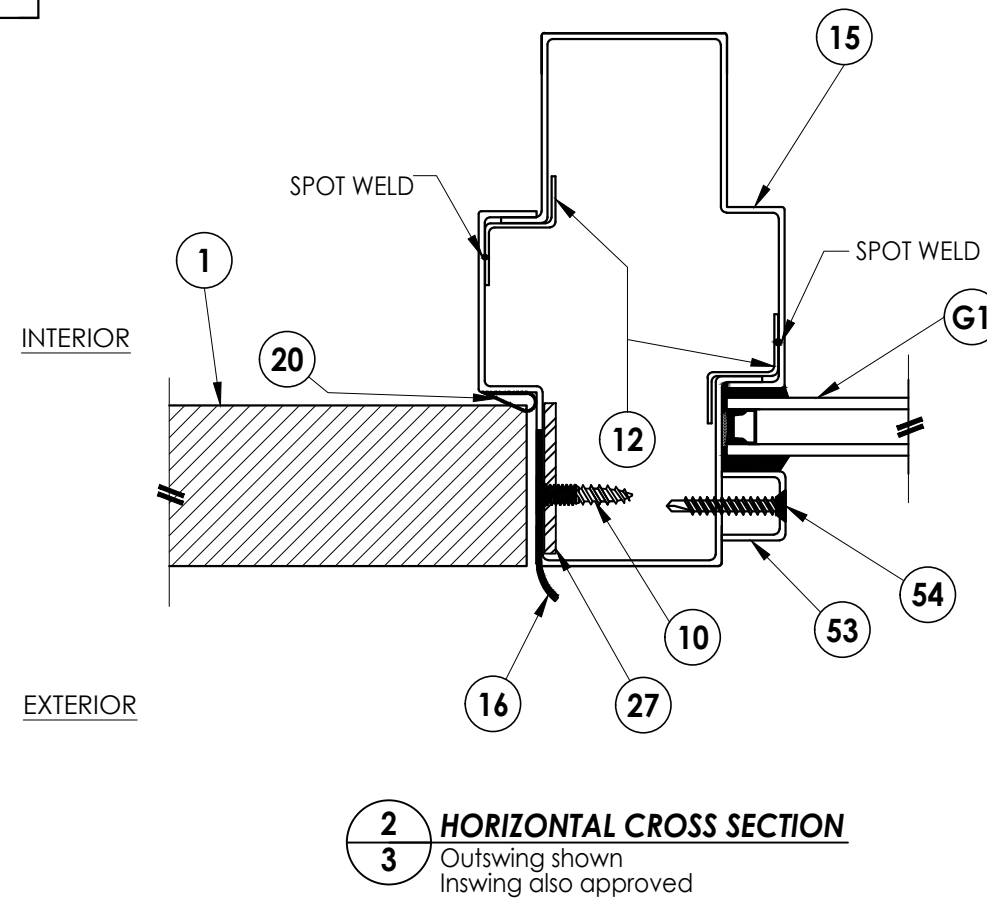
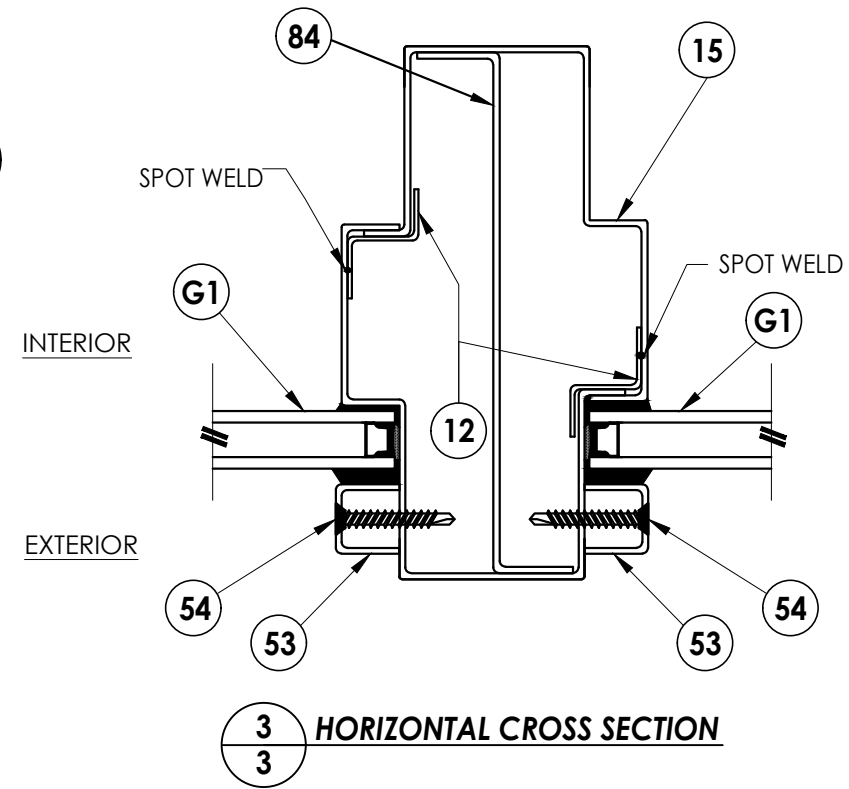
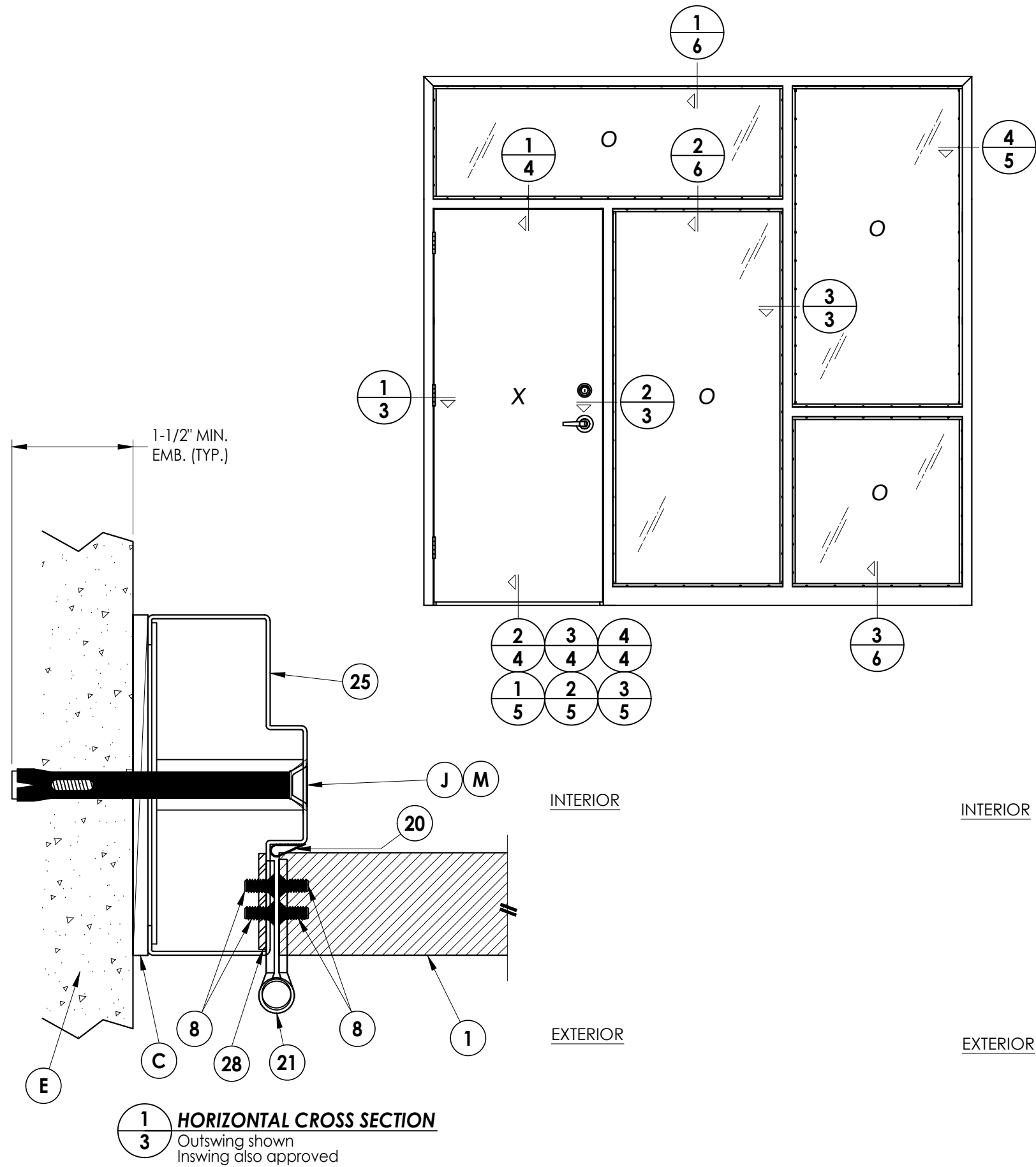
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NOTE: ALL WELDING TO CONFORM w/ AMERICAN WELDING SOCIETY, ANSI/AWS AS PER FBC SECTION 2214.3.4.



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PRODUCT:	MMI	"N" STEEL DOOR	
		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		REVISIONS	
DATE: 11/3/08			
SCALE: N.T.S.			
DWG. BY: AL			
CHK. BY: LFS			
DRAWING NO.: FL-12186.4			
SHEET 2 OF 9			

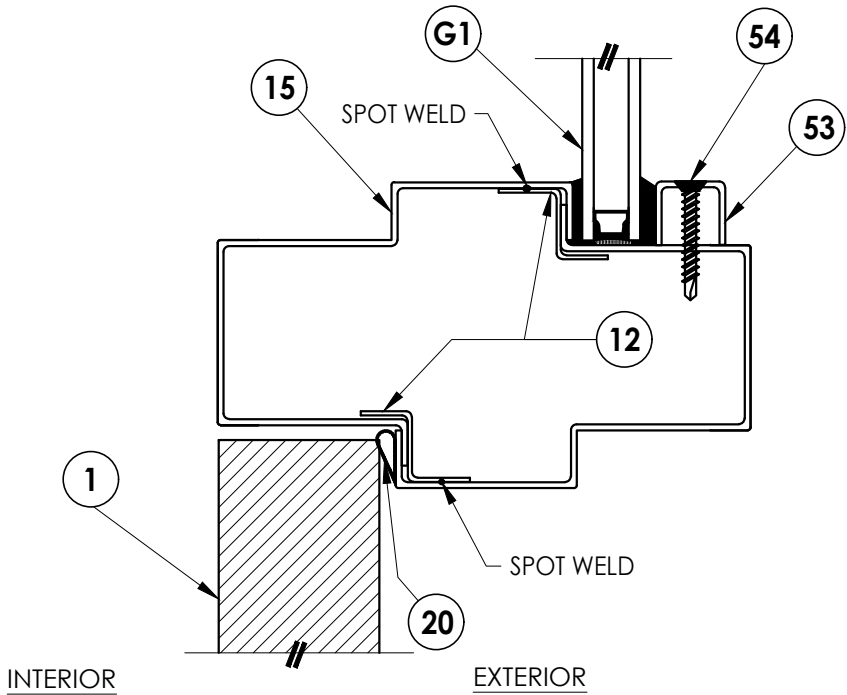


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4	7/11/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC	DAC
2	7/18/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK
NO.	DATE	REVISIONS		
DATE: 11/3/08				
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DWG. BY: AL				
CHK. BY: LFS				
DRAWING NO.: FL-12186.4				
SHEET 3 OF 9				

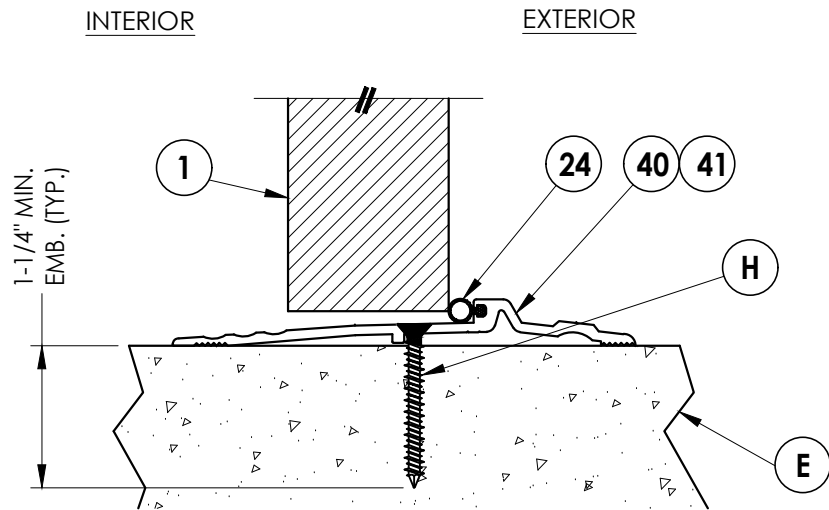
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

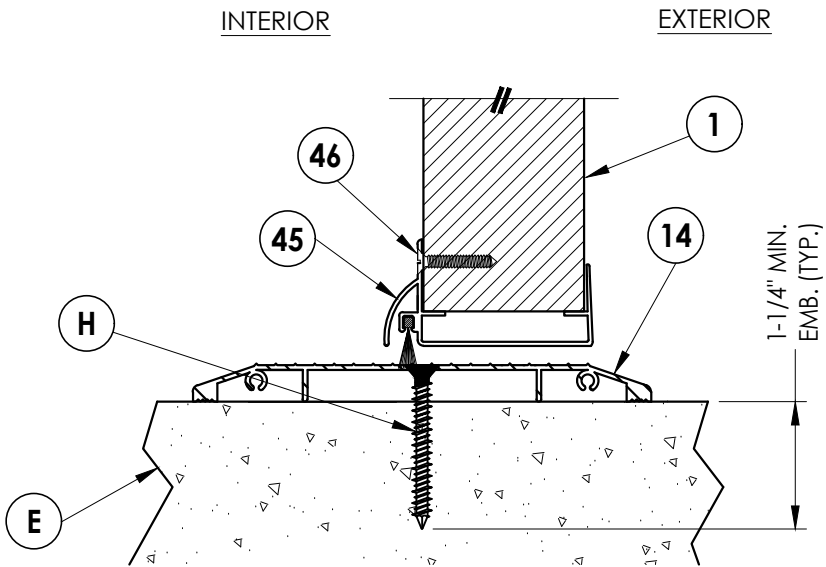
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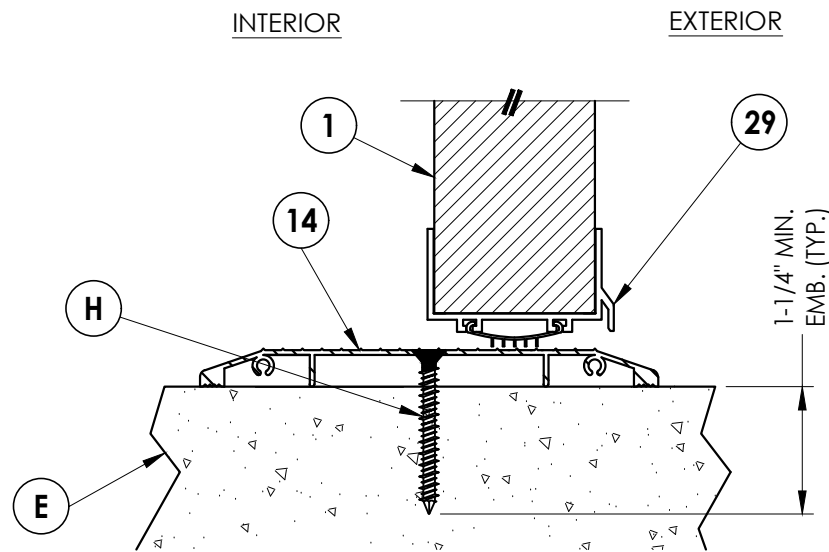
1
4 **VERTICAL CROSS SECTION**
Inswing configuration



2
4 **VERTICAL CROSS SECTION**
Inswing configuration



3
4 **VERTICAL CROSS SECTION**
Inswing configuration

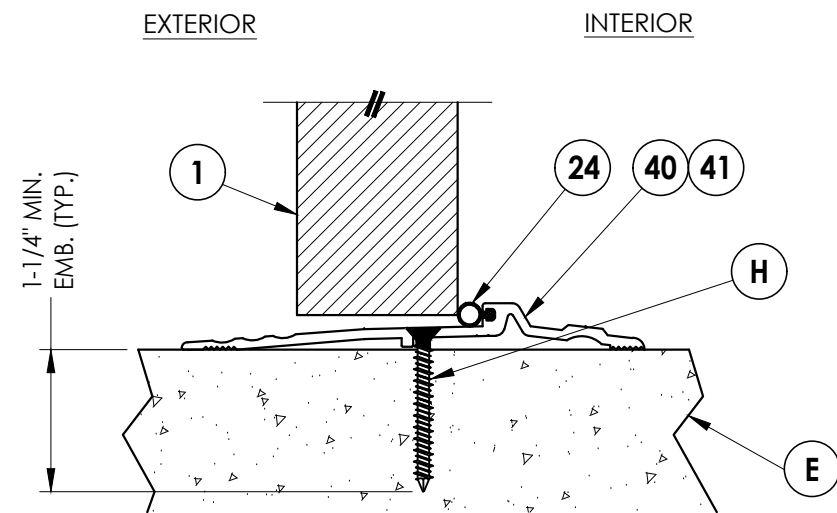


4
4 **VERTICAL CROSS SECTION**
Inswing configuration

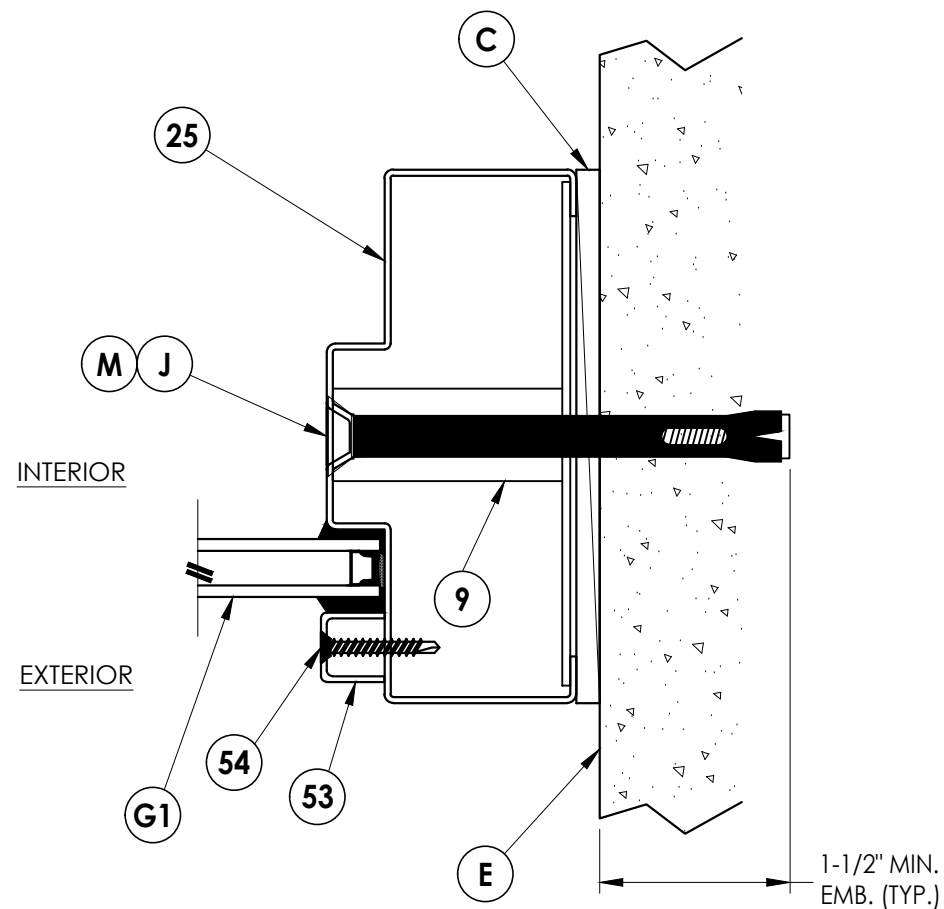
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"N" OPAQUE STEEL DOOR		PART OR ASSEMBLY:	
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4	7/11/23	UPDATE TO 8TH ED. (2023) FBC	LFS
3	7/30/20	UPDATE TO 7th ED. (2020) FBC	DAC
2	7/18/17	UPDATE TO 6TH ED. (2017) FBC	LFS
1	10/14/16	UPDATE TO 5TH ED. (2014) FBC	JK

DATE: 11/3/08
SCALE: N.T.S.
DWG. BY: AL
CHK. BY: LFS
DRAWING NO.: FL-12186.4
SHEET 4 OF 9

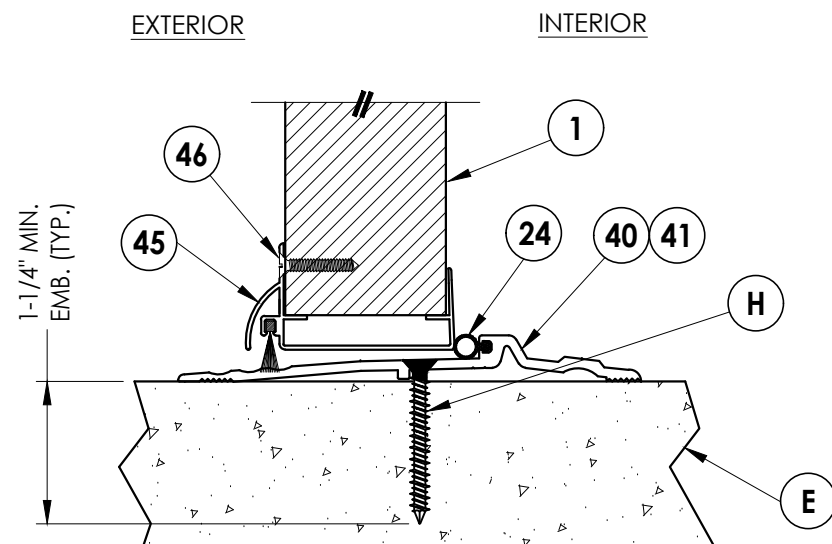
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813



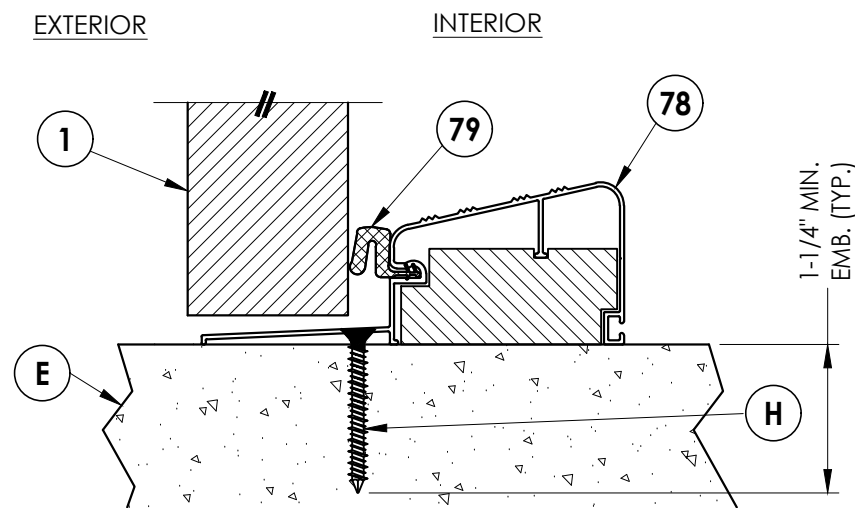
1 **VERTICAL CROSS SECTION**
5 Outswing configuration



4/5 HORIZONTAL CROSS SECTION



2 **VERTICAL CROSS SECTION**
5 Outswing configuration



3 VERTICAL CROSS SECTION 5 Outswing configuration

DATE: 11/3/08		SHEET 5 OF 9	
DRAWING NO.: FL-12186.4		DWG. BY: AL	
CHK. BY: LFS		SCALE: N.T.S.	
NO. DATE		REVISONS	
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
PRODUCT: MMI		PART OR ASSEMBLY: VERTICAL CROSS SECTIONS	
"N" OPAQUE STEEL DOOR		BUILDING CONSULTANTS, INC.	
Lyndon F. Schmidt		P.O. Box 230, Valrico, FL 33595	
P.E. No. 43409		Phone No.: 813.659.9197	
Documents Prepared By:		FBPE Registry No. 9813	

EXTERIOR INTERIOR

54

53

26

C

G1

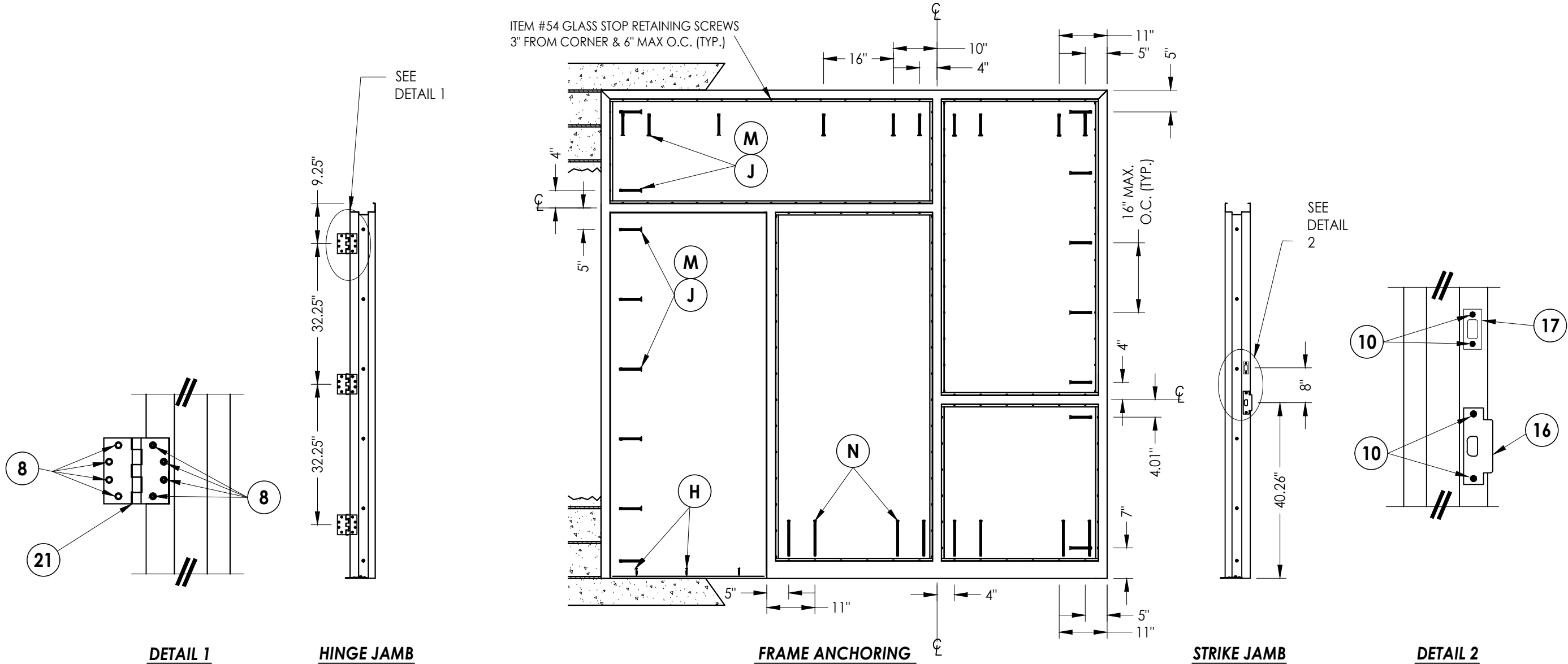
N

83

2-1/2" MIN. EMB. (TYP.)

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CONCRETE ANCHOR NOTES:

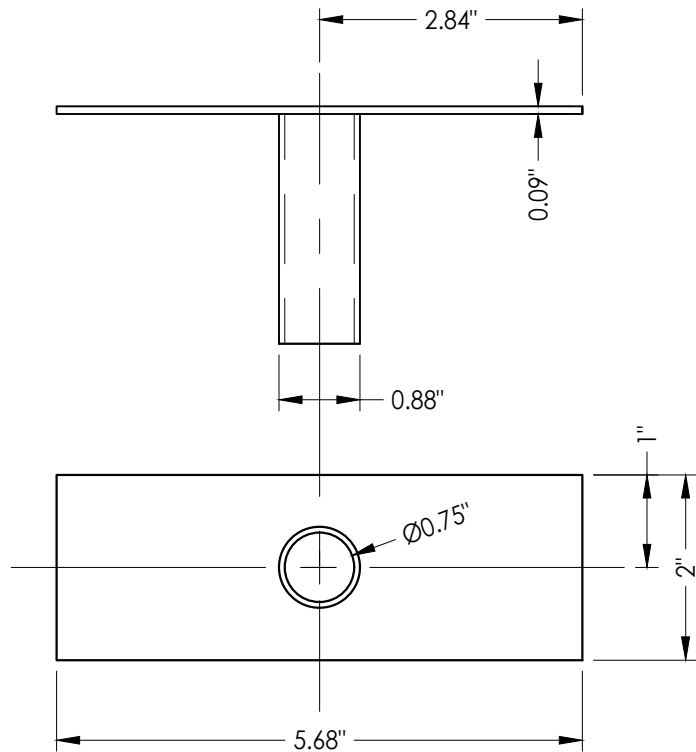
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON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

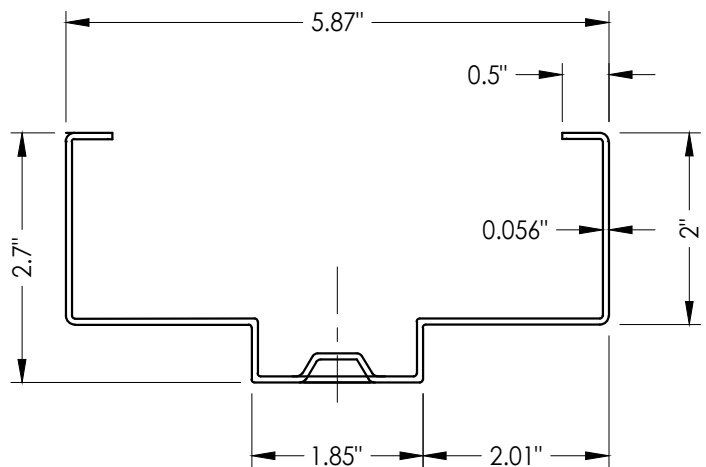
- Embedment may be through 1-1/4" face shell of hollow block.

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	
DATE: 11/3/08		REVISIONS		DOCUMENTS PREPARED BY: LYNDON F. SCHMIDT P.E. No. 43409			
SCALE: N.T.S.							
DWG. BY: AL							
CHK. BY: LFS							
DRAWING NO.: FL-12186.4							
SHEET 7 OF 9							

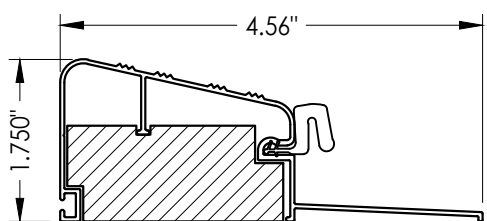
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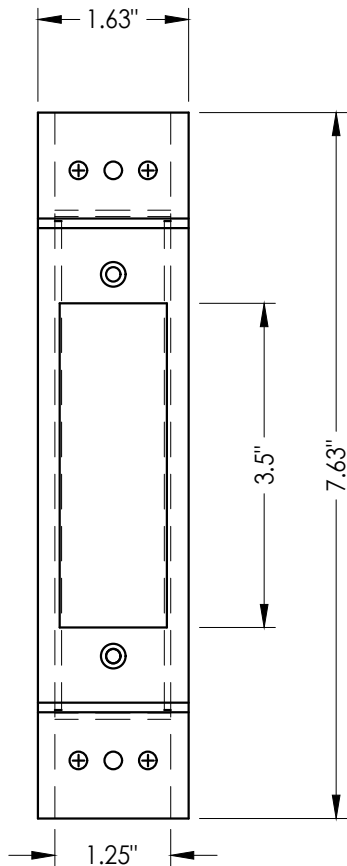
9 TUBE ANCHOR



25 HOLLOW METAL FRAME

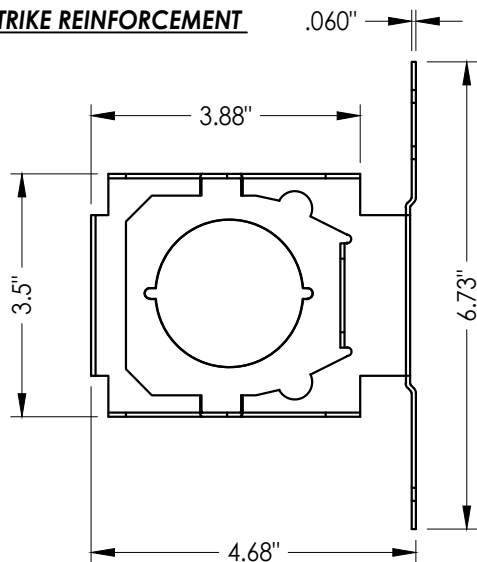


78 OUTSWING THRESHOLD

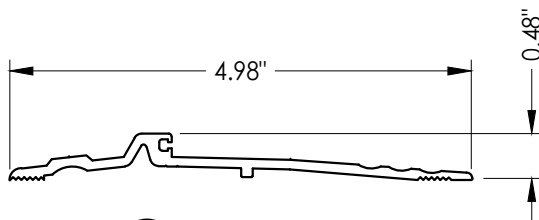


84 MULLION REINFORCEMENT

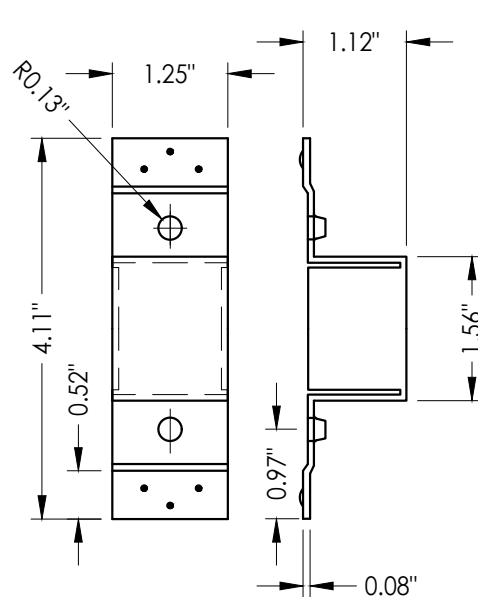
27 LATCH STRIKE REINFORCEMENT



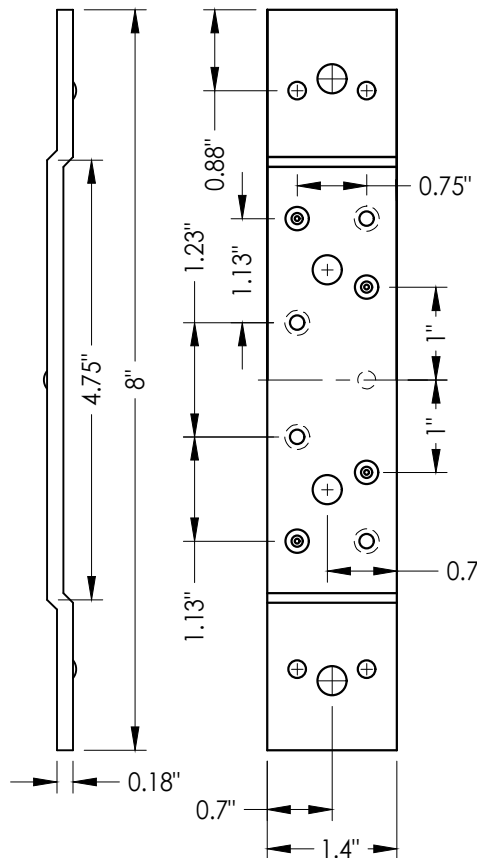
5 LOCK BOX REINFORCEMENT



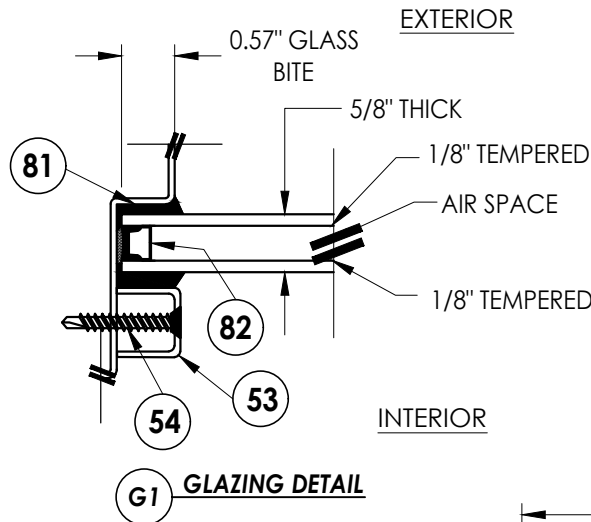
40 THRESHOLD



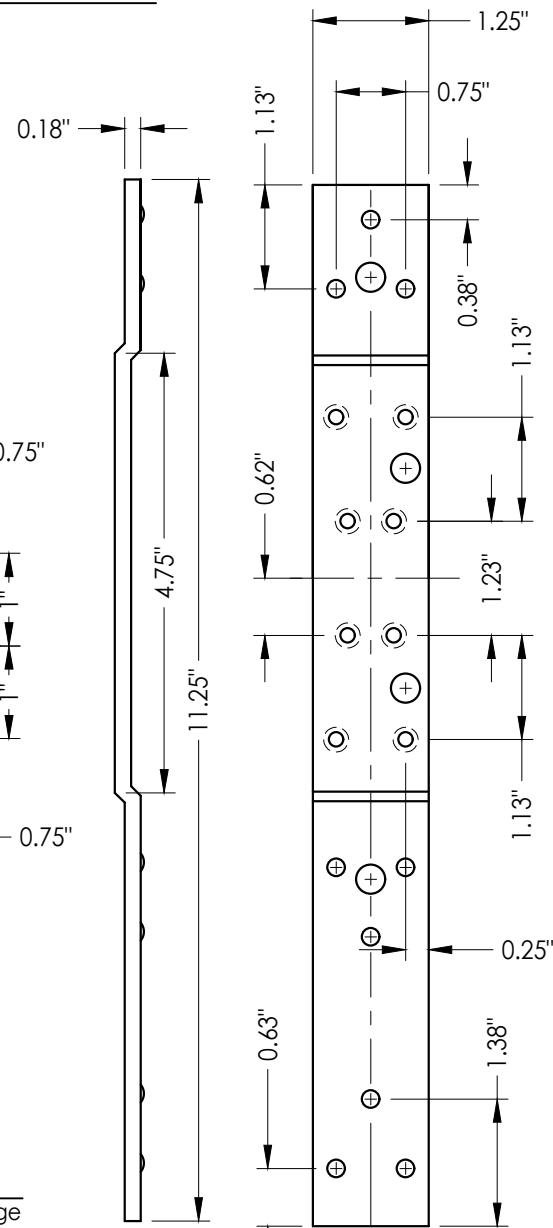
19 DEADBOLT STRIKE REINFORCEMENT



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



G1 GLAZING DETAIL

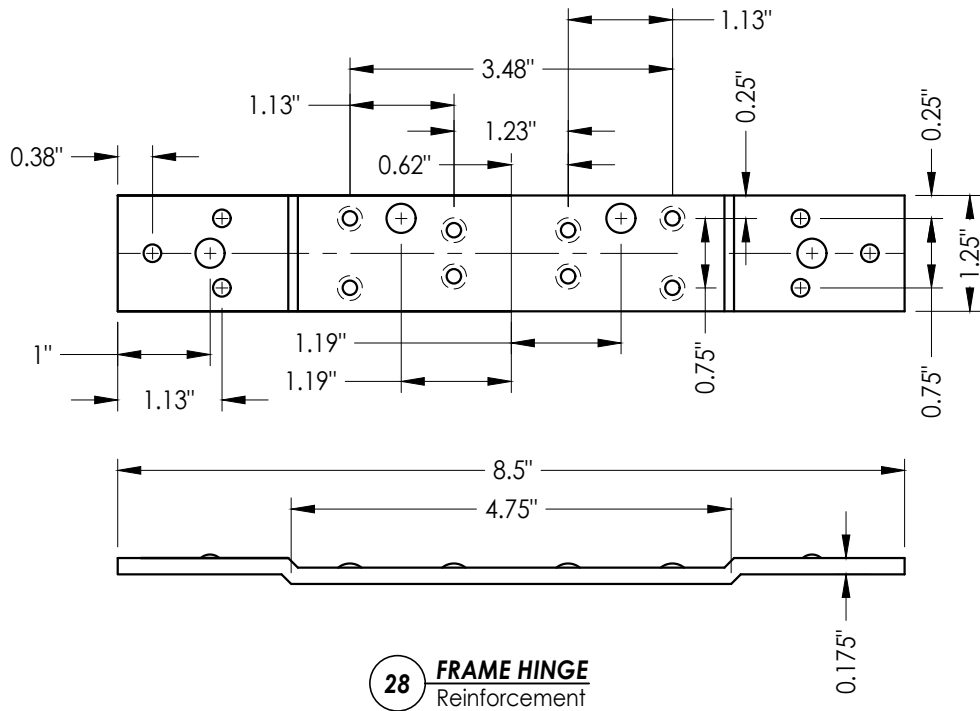


22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge

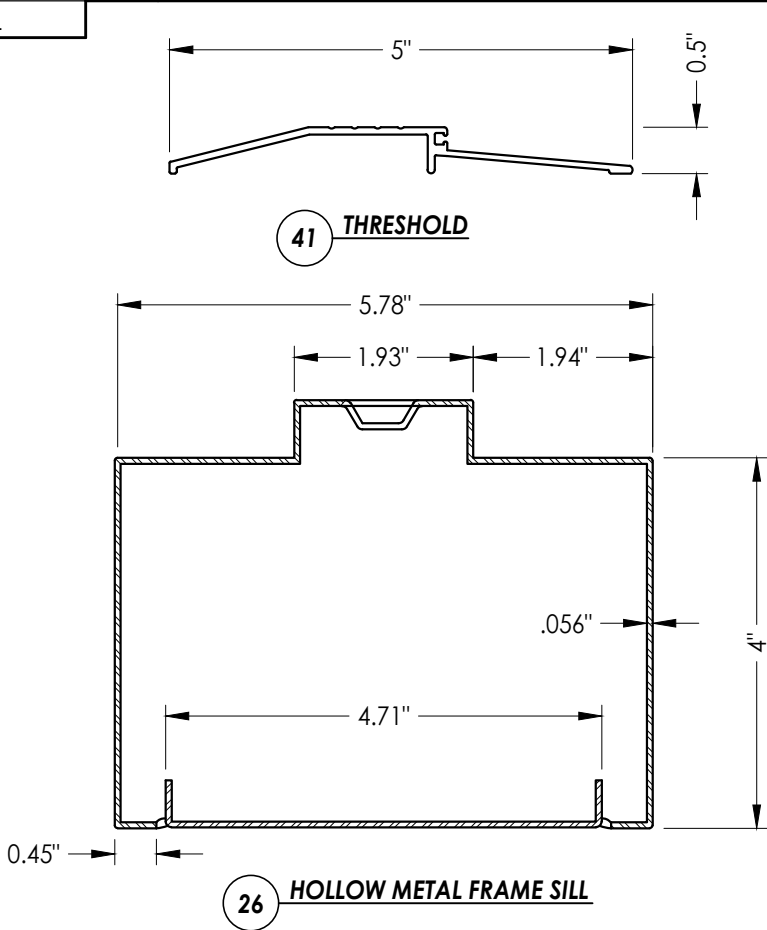
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409										BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
PRODUCT: MMI "N" STEEL DOOR										PART OR ASSEMBLY: GLAZING DETAIL & COMPONENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

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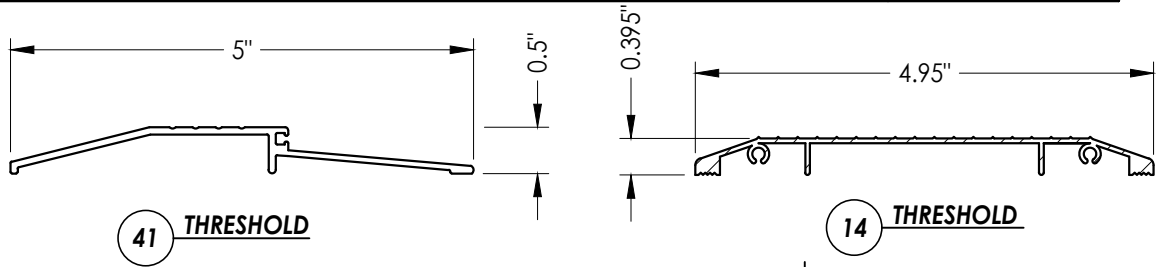
BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-	23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	24	WEATHER STRIP (THRESHOLD)	NEOPRENE
H	1/4" x 1-3/4" ITW PFH CONCRETE SCREW	STEEL	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	53	U-CHANNEL GLASS STOP	STEEL
8	#12-24 x 1/2" SELF TAPPER	STEEL	54	#8 X 1.25" PFH SMS	STEEL
9	TUBE ANCHOR	STEEL	70	SCHLAGE LOCK SET ASSEMBLY ND53PD	STEEL
10	#12-24 x 1.0" COMBINATION MACHINE / WOOD SCREW	STEEL	71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
12	MULLION Z BRACKET	STEEL	72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
14	COLUMBIA ADA THRESHOLD #6510	ALUMINUM	76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
15	MULLION MIN. (0.056" THK) BY MMI	STEEL	77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
16	ANSI LATCH STRIKE	STEEL	78	OUTSWING THRESHOLD QOSH BY DLP	ALUM/WOOD
17	DEADBOLT STRIKE	STEEL	79	WEATHER-STRIP	FOAM
19	DEADBOLT STRIKE REINFORCEMENT	STEEL	81	DOW 995 STRUCTURAL SILICONE	SILICONE
20	WEATHER-STRIP	NEOPRENE	82	GLASS SPACER	ALUMINUM
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL	83	SILL TUBE ANCHOR	STEEL
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL	84	MULLION REINFORCEMENT	STEEL



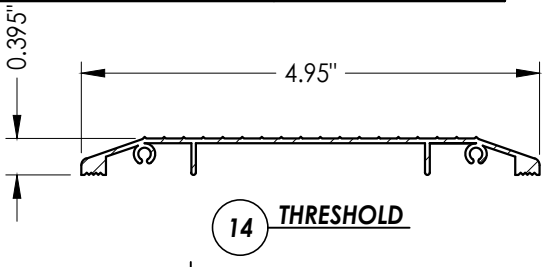
28 FRAME HINGE
Reinforcement



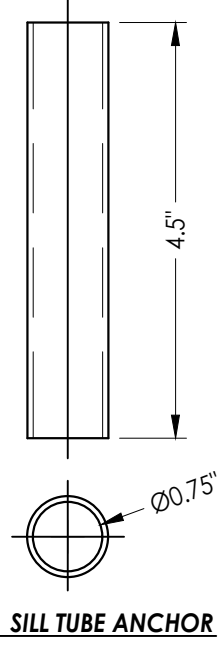
26 HOLLOW METAL FRAME SILL



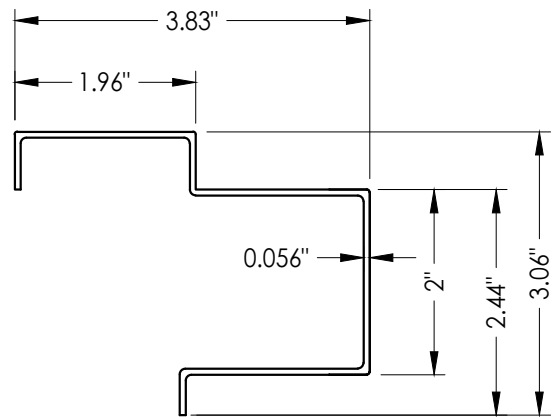
41 THRESHOLD



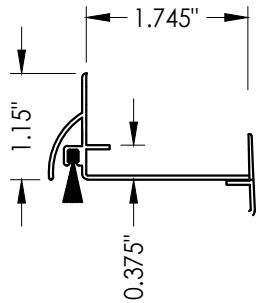
14 THRESHOLD



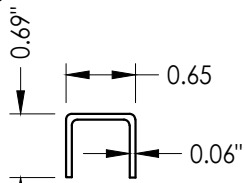
83 SILL TUBE ANCHOR



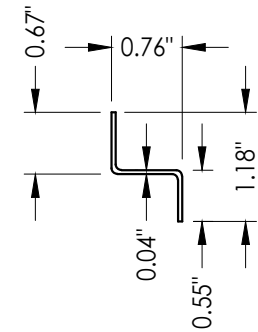
15 MULLION



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				
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-12186.4							
SHEET 9 OF 9							