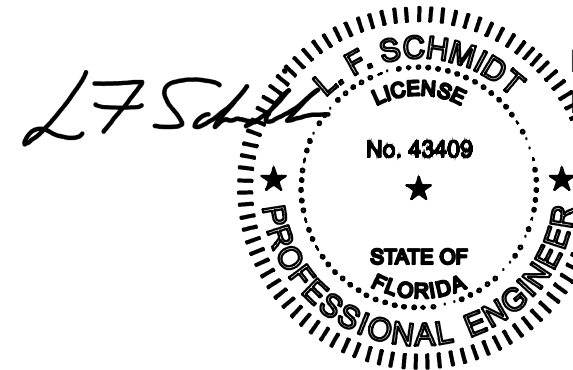


**"N" SERIES COMMERCIAL
STEEL DOOR W/ SIDELITE
OUTSWING
"IMPACT"**

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 high water dam threshold item #78 meet water infiltration requirements for "HVHZ".
7. Outswing configurations using sill item #40, #41 or #42 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.
8. The "N" door achieves a Class III stiffness classification per Section 8.2.2 of ANSI A250.13 (based on opaque door).
9. When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6.

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

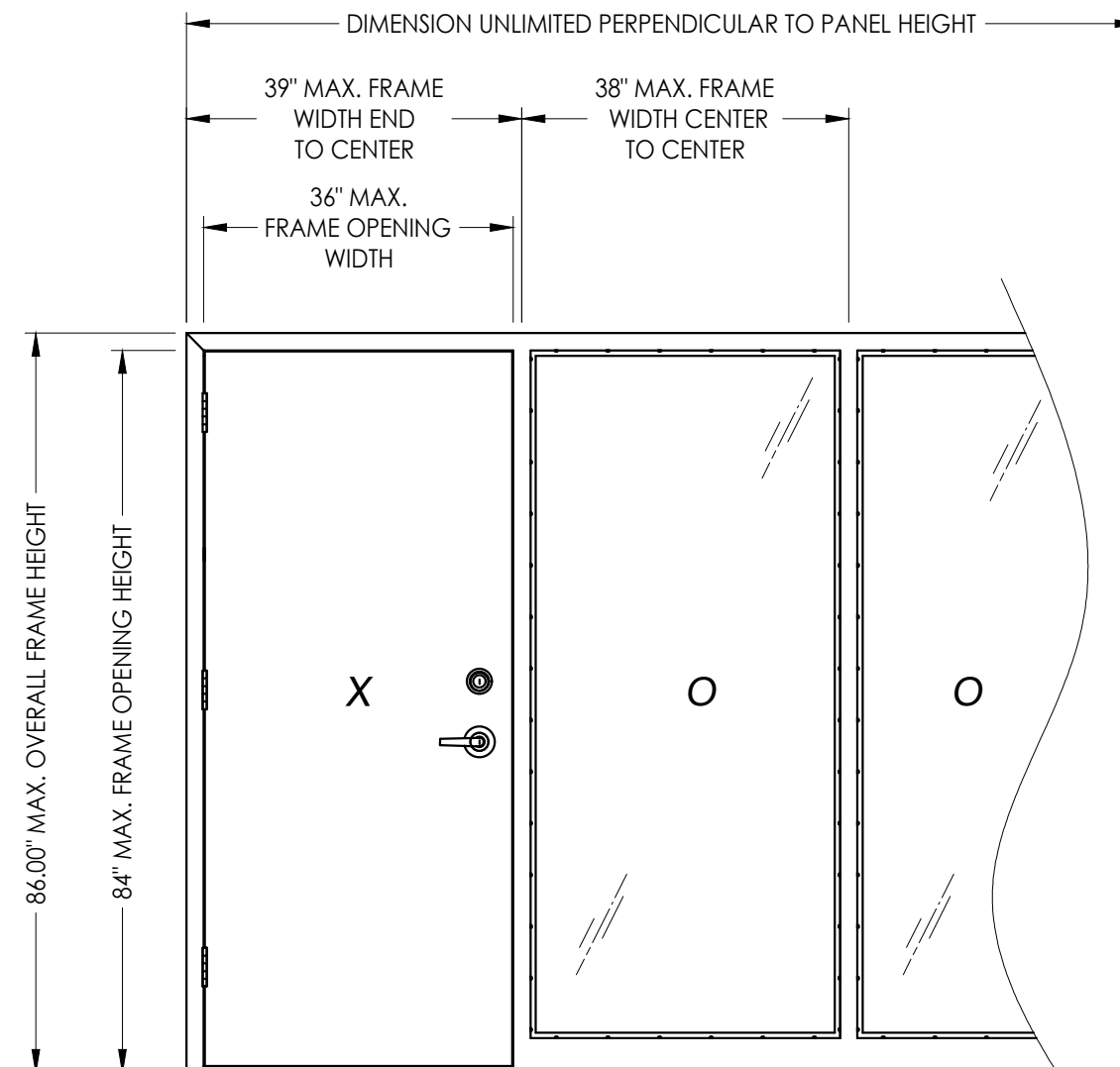


Digitally signed by Lyndon F Schmidt
Date: 2023.07.11 08:59:16 -04'00'

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	SIDELITE D.L.O. DIMENSION	LOCK TYPE	GLASS TYPE	DESIGN PRESSURE (PSF)	
				POSITIVE	NEGATIVE
39.00" x 86.00"	34.75" x 78.75"	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

BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 333
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: METAL MANUFACTURING INDUSTRIES "N" STEEL DOOR

TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES

[illegible]

DATE: 2/19/09

SCALE: N.T.S.

DWG. BY: AL

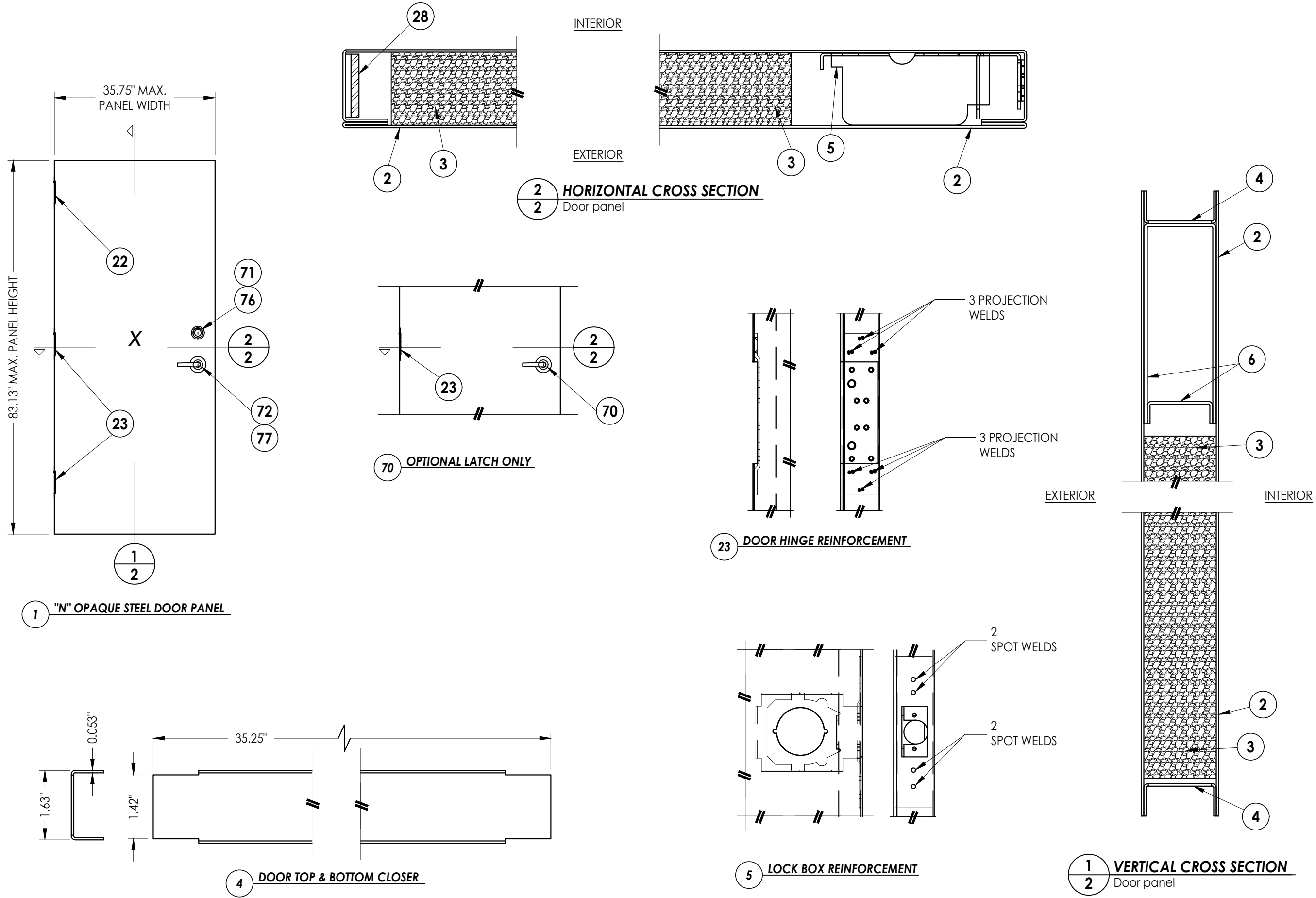
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DRAWING NO.:

FL-12169.2

SHEET 1 OF 8

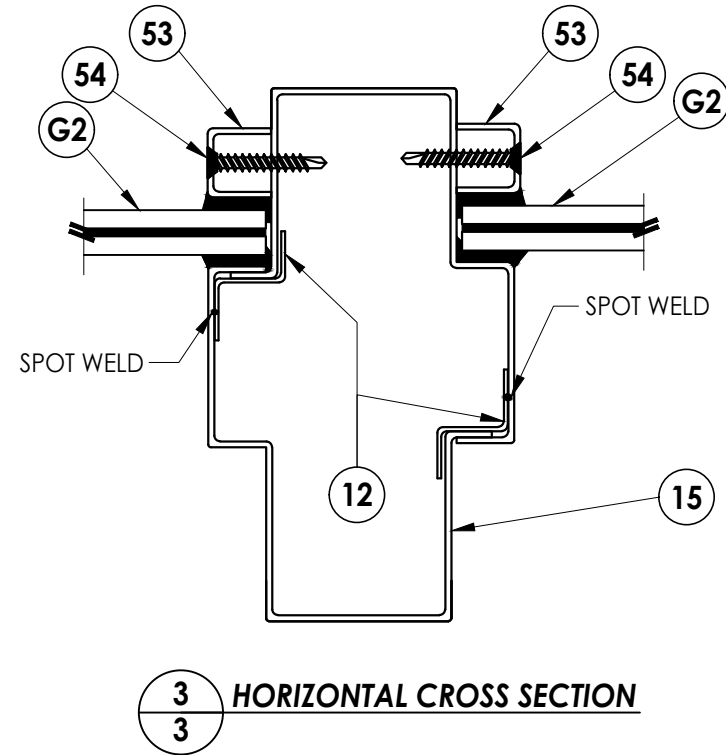
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NOTE: ALL WELDING TO CONFORM w/ AMERICAN WELDING SOCIETY, ANSI/AWS AS PER FBC SECTION 2214.3.4.

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		<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Vairco, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
METAL MANUFACTURING INDUSTRIES "N" STEEL DOOR		DOOR PANEL SECTIONS 161 LOCK PREP			
		7/11/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
4		7/30/20	UPDATE TO 7th ED. (2020)	FBC	DAC
3		7/17/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
2		10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK
1		NO.	DATE		BY
		REVISIONS			
DATE:		2/19/09			
SCALE:		N.T.S.			
DWG. BY:		AL			
CHK. BY:		LFS			
DRAWING NO.:		FL-12169.2			
SHEET		2	OF	8	

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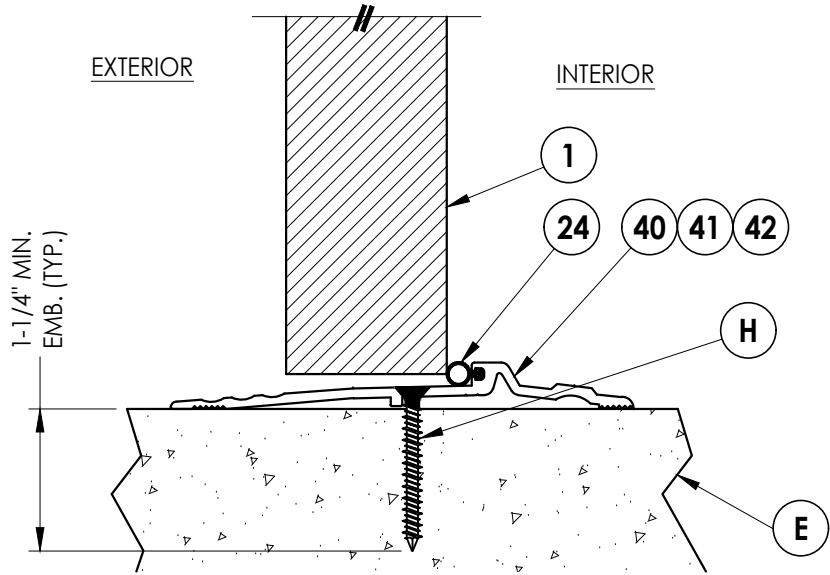


3 **HORIZONTAL CROSS SECTION**

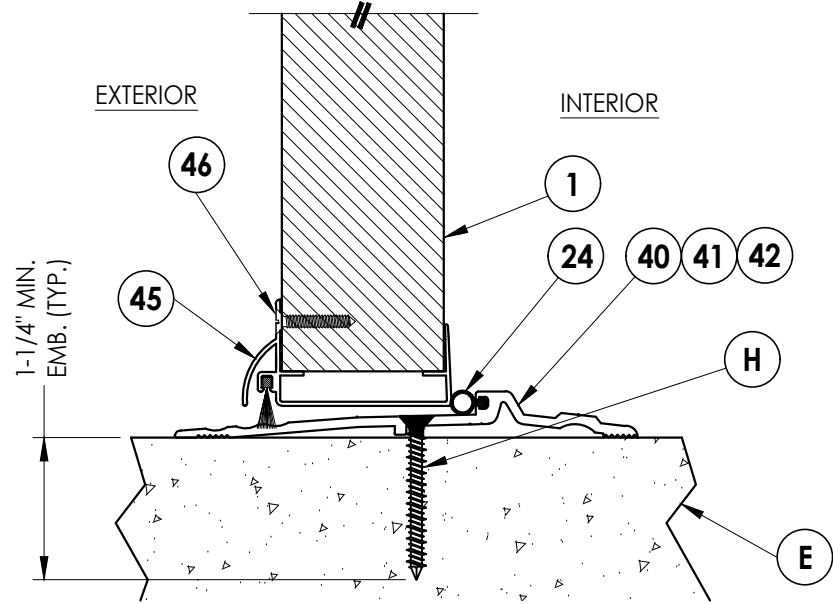
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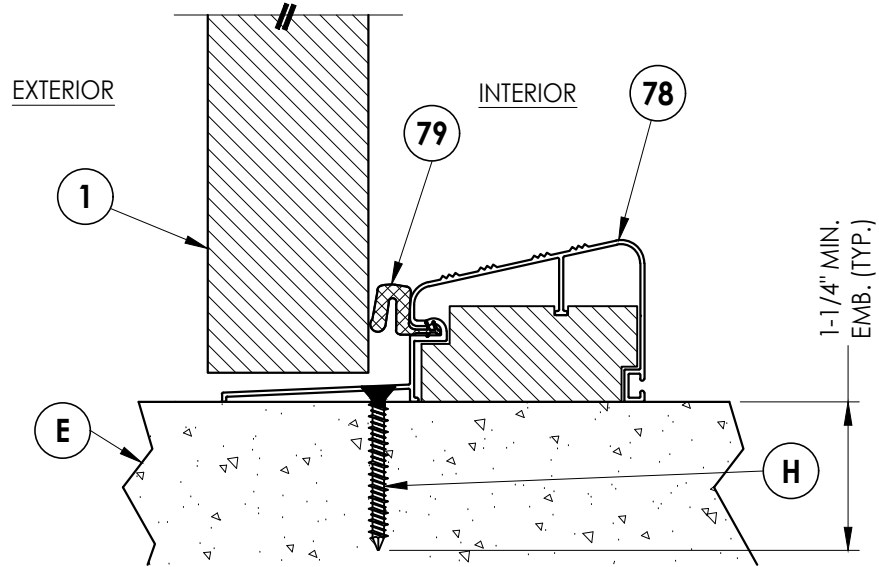
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2 **VERTICAL CROSS SECTION**
4 See general notes, sheet 1
 for "HVHZ" water infiltration
 requirements



1 **VERTICAL CROSS SECTION**
4 See general notes, sheet 1
 for "HVHZ" water infiltration
 requirements



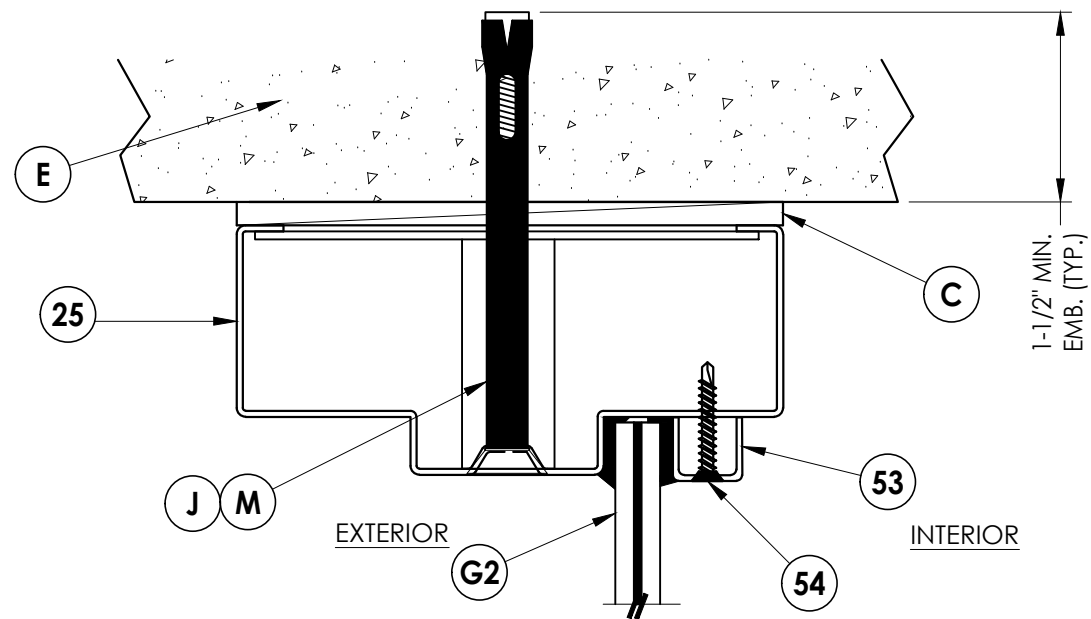
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4 See general notes, sheet 1
 for "HVHZ" water infiltration
 requirements

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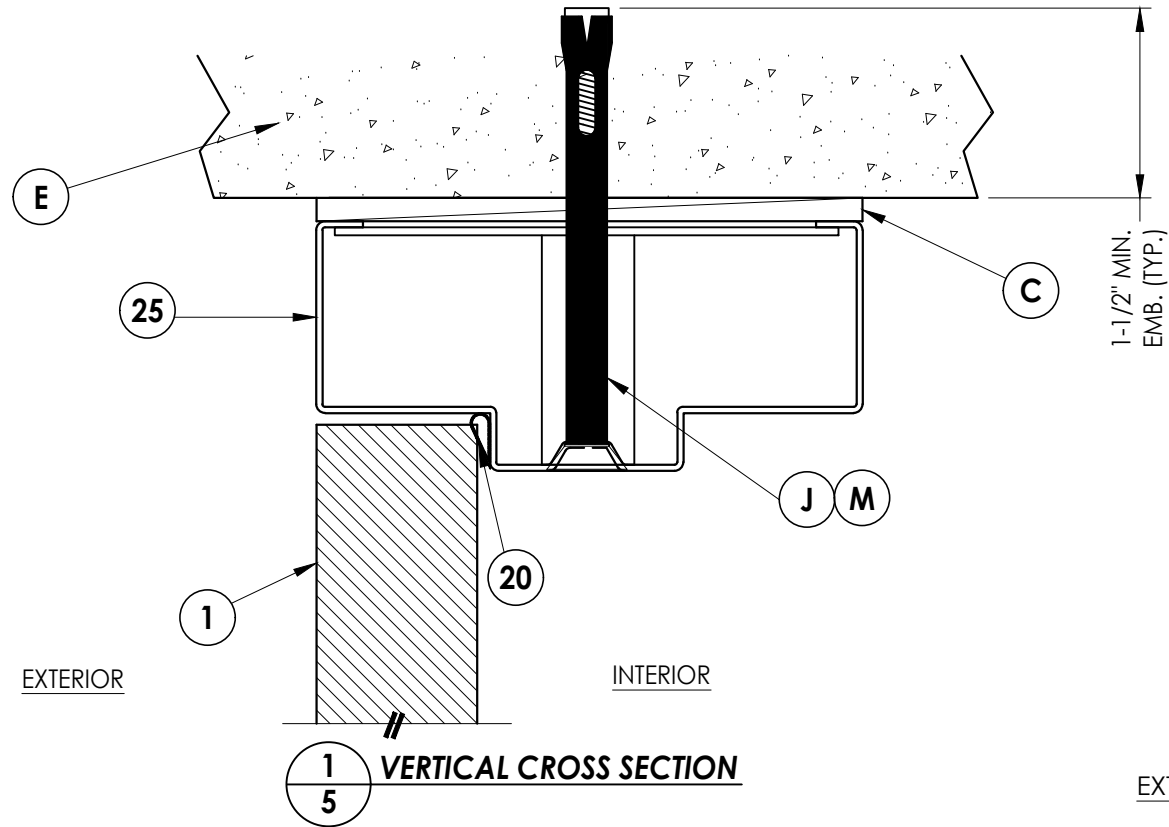
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PRODUCT: METAL MANUFACTURING INDUSTRIES
"N" STEEL DOOR

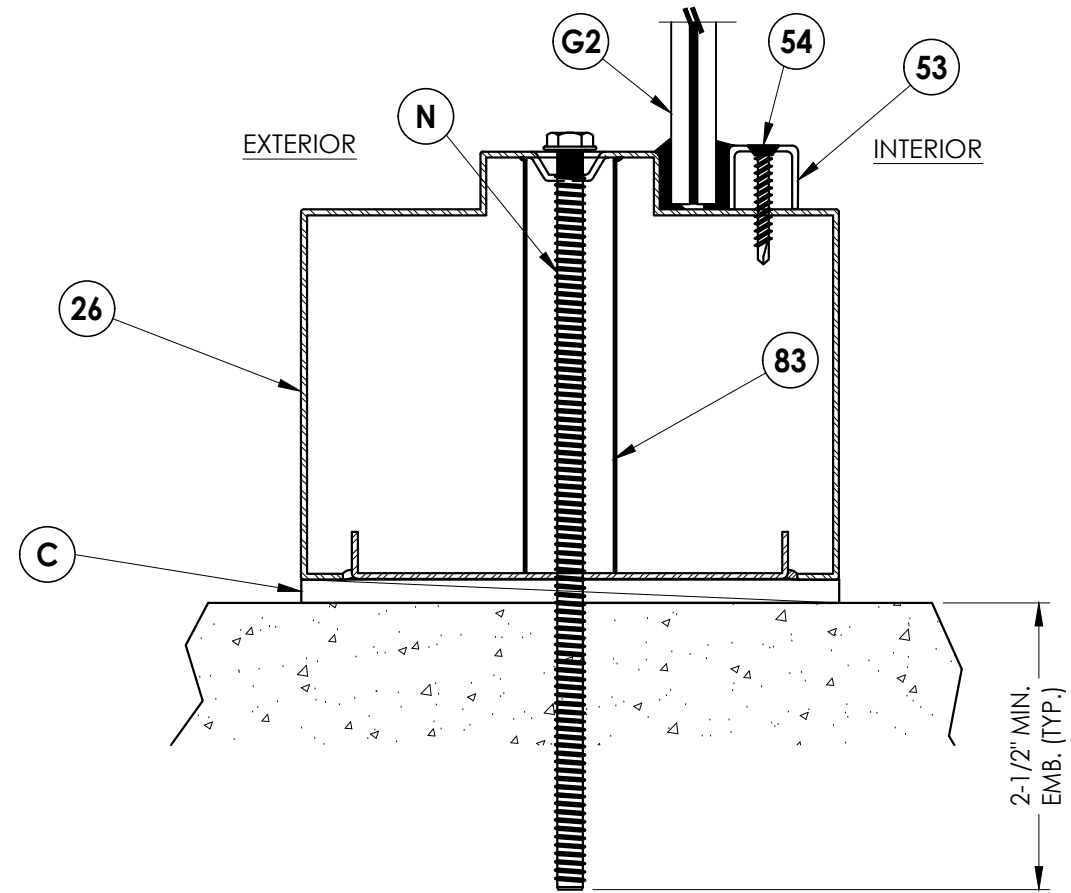
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2 VERTICAL CROSS SECTION
5



1
5 **VERTICAL CROSS SECTION**



3 VERTICAL CROSS SECTION

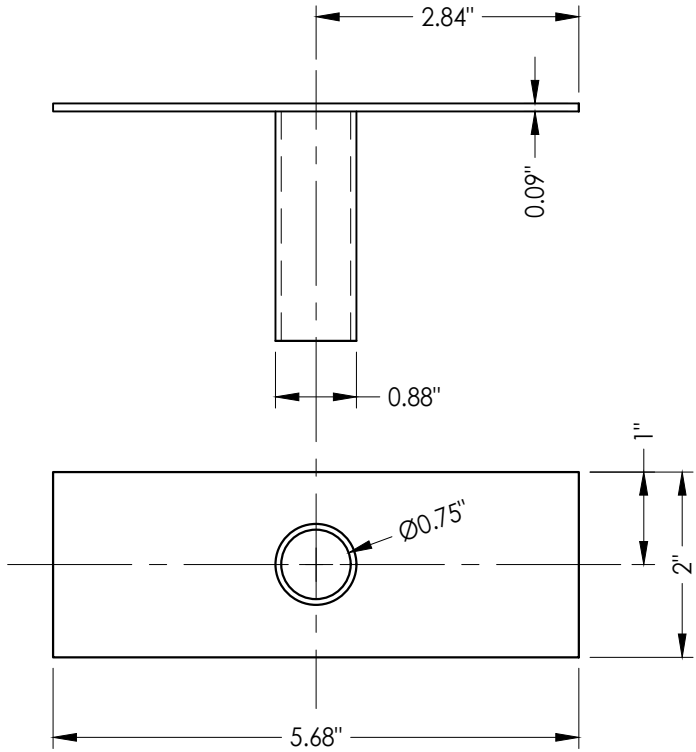
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DATE: 2/19/09									
SCALE: N.T.S.									
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CHK. BY: LFS									
DRAWING NO.: FL-12169.2									
SHEET 5 OF 8									

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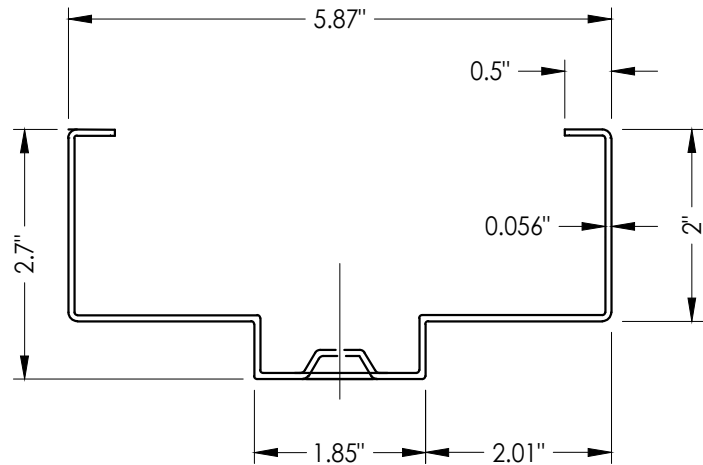
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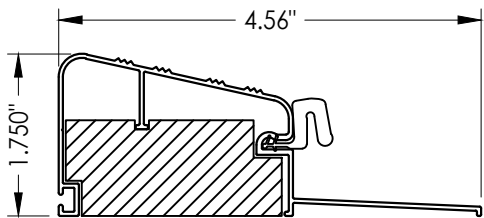
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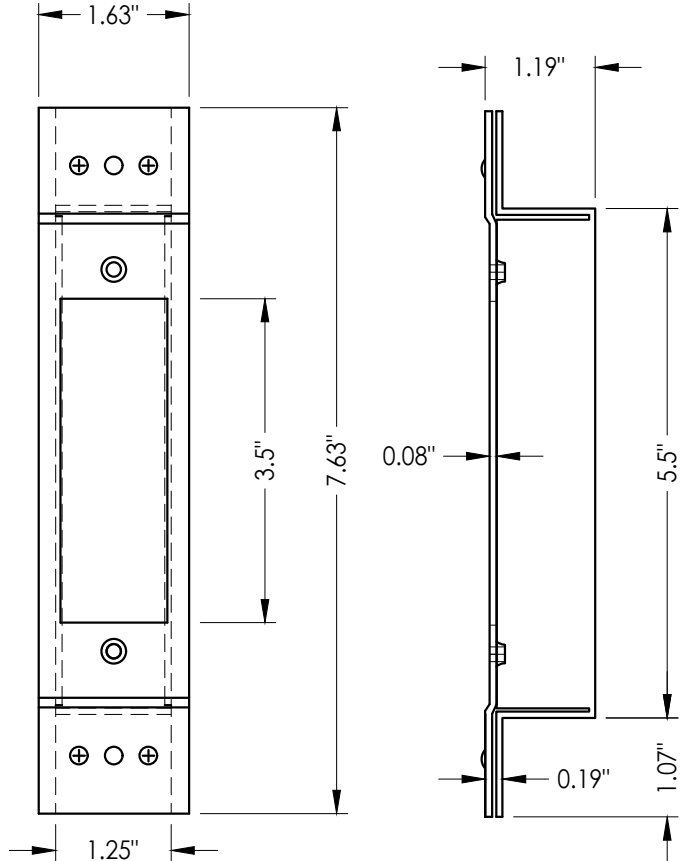
9 TUBE ANCHOR



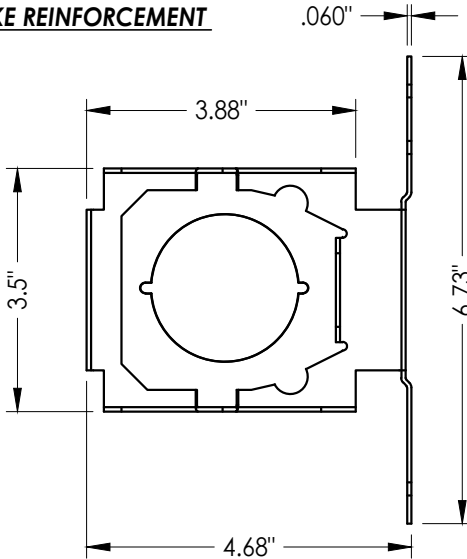
25 HOLLOW METAL FRAME



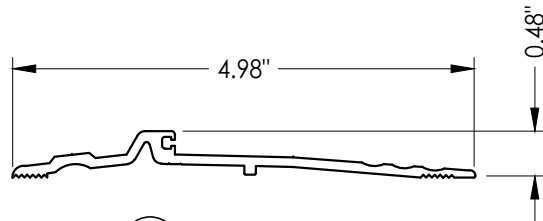
78 OUTSWING THRESHOLD



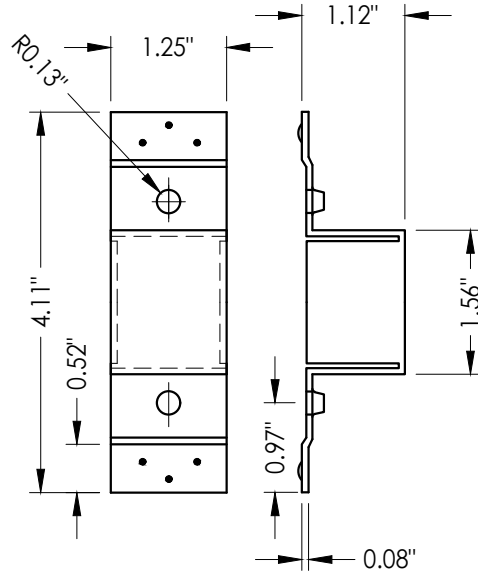
27 LATCH STRIKE REINFORCEMENT



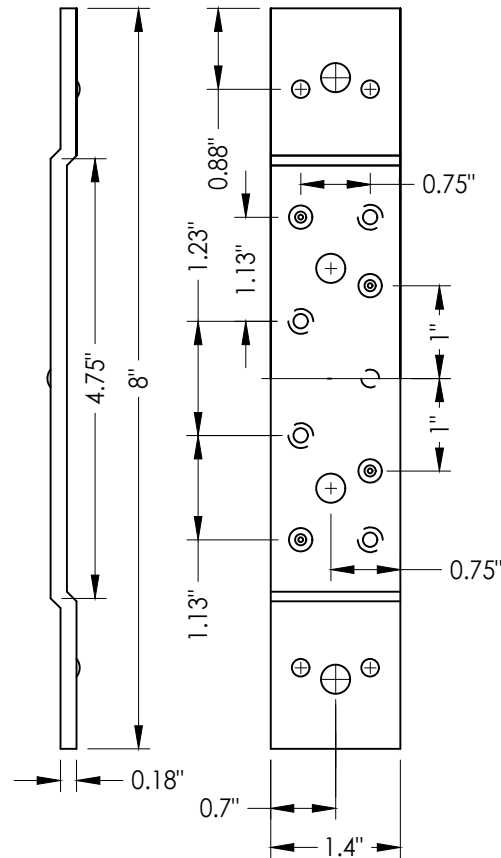
5 LOCK BOX REINFORCEMENT



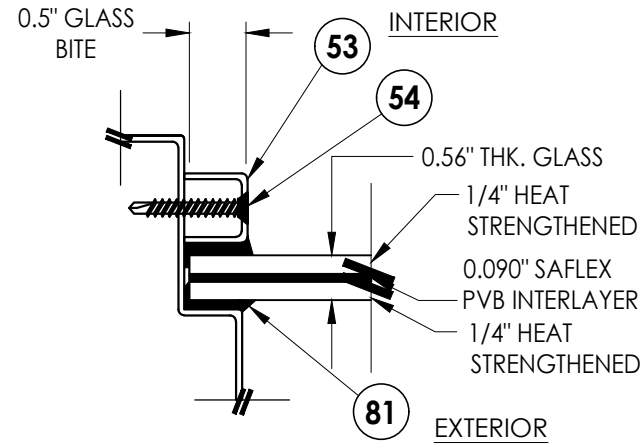
40 THRESHOLD



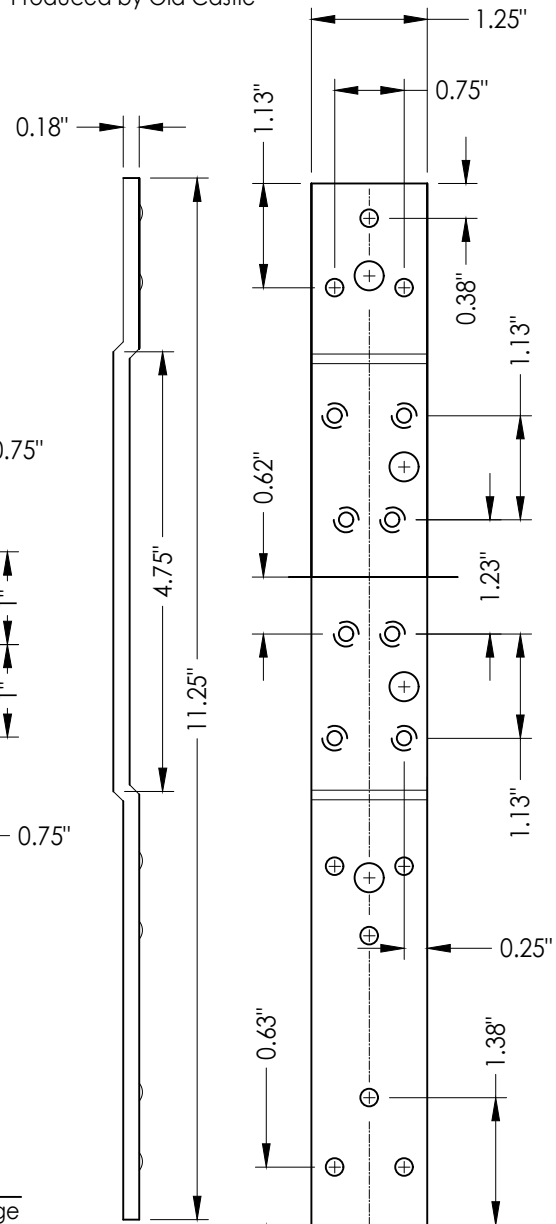
19 DEADBOLT STRIKE REINFORCEMENT



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



G1 GLAZING DETAIL
9/16" Monolithic glass
Produced by Old Castle



22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge

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

PRODUCT:
METAL MANUFACTURING
INDUSTRIES
"N" STEEL DOOR

PART OR ASSEMBLY:
GLAZING DETAIL AND
COMPONENTS

DATE: 2/19/09

SCALE: N.T.S.

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CHK. BY: LFS

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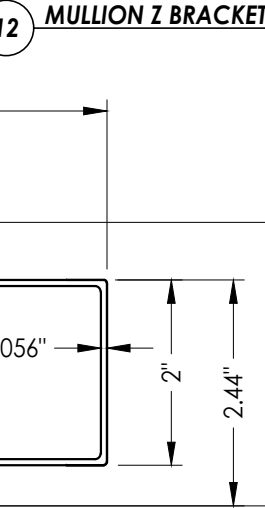
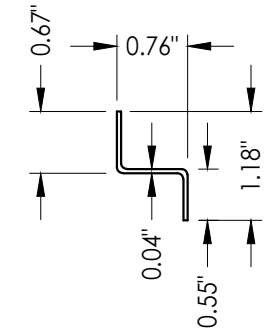
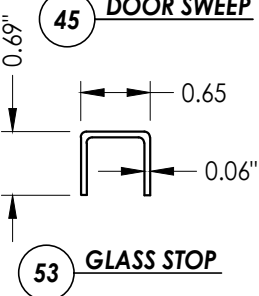
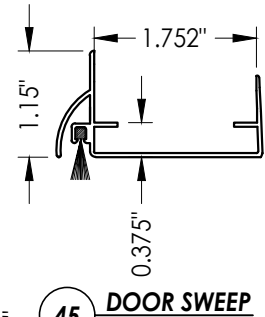
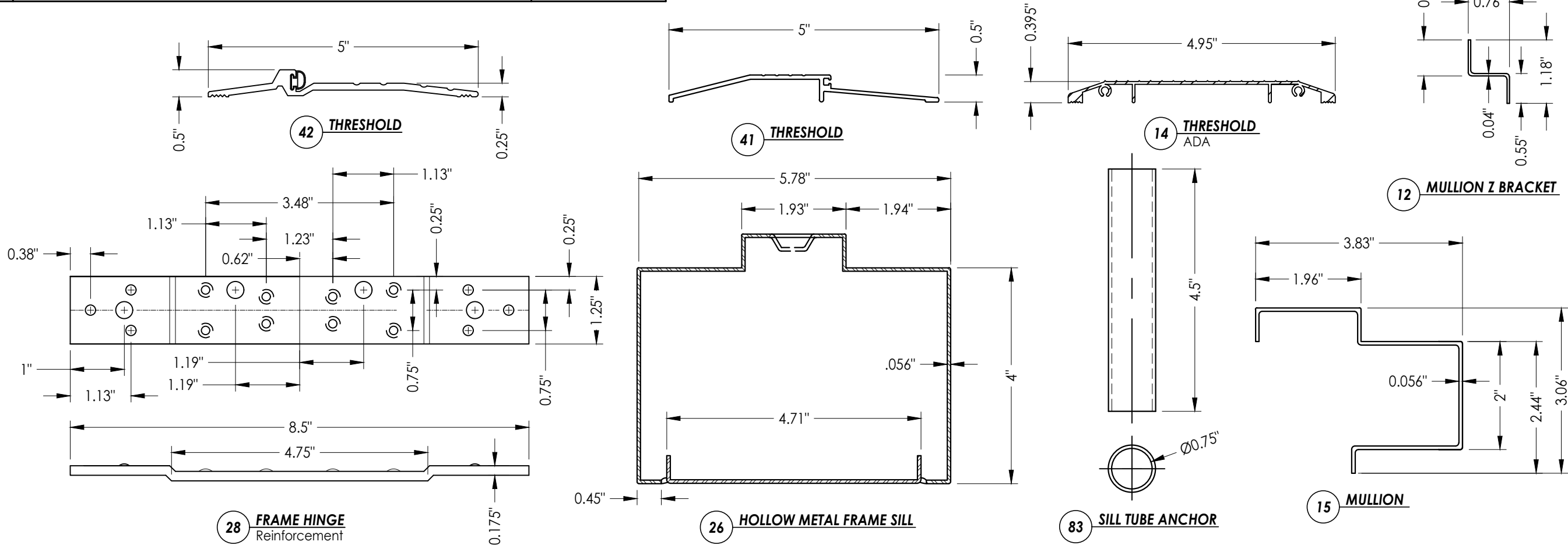
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SHEET 7 OF 8

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BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-	22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
H	1/4" x 1-3/4" ITW PFH CONCRETE SCREW	STEEL	24	WEATHER STRIP (THRESHOLD)	NEOPRENE
J	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL	25	FRAME 5-3/4" X 2" MIN. (0.056" THK)	STEEL
M	3/8" X 5" TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL	26	FRAME SILL 5-3/4" X 4" MIN. (0.056" THK)	STEEL
N	1/2" X 8" HH SCREW-BOLT+ CONCRETE ANCHOR BY DeWALT/POWERS	STEEL	27	LATCH STRIKE REINFORCEMENT	STEEL
1	"N" OPAQUE STEEL DOOR PANEL	-	28	FRAME HINGE REINFORCEMENT	STEEL
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	42	OUTSWING THRESHOLD PEMKO #2005V	ALUMINUM
5	LOCK BOX REINFORCEMENT	STEEL	45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
6	CLOSER REINFORCEMENT	STEEL	46	#6 X 3/4" PHILIPS HEAD SMS	STEEL
8	#12-24 x 1/2" SELF TAPPER	STEEL	53	U-CHANNEL GLASS STOP	STEEL
9	TUBE ANCHOR	STEEL	54	#8 X 1.25" PFH SHEET METAL SCREW	STEEL
10	#12-24 x 1.0" COMBINATION MACHINE / WOOD SCREW	STEEL	70	SCHLAGE LOCK SET ASSEMBLY ND53PD	STEEL
12	MULLION Z BRACKET	STEEL	71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
14	COLUMBIA ADA THRESHOLD #6510	ALUMINUM	72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
15	MULLION MIN. (0.056" THK)	STEEL	76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
16	ANSI LATCH STRIKE	STEEL	77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL
17	DEADBOLT STRIKE	STEEL	78	OUTSWING THRESHOLD QOSH BY DLP	ALUM/WOOD
19	DEADBOLT STRIKE REINFORCEMENT	STEEL	79	WEATHER-STRIP	FOAM
20	WEATHER-STRIP	NEOPRENE	81	DOW 995 STRUCTURAL SILICONE	SILICONE
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL	83	SILL TUBE ANCHOR	STEEL



Documents Prepared By:
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PRODUCT:
METAL MANUFACTURING
INDUSTRIES
"N" STEEL DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS
AND COMPONENTS

REV	DATE	DESCRIPTION	BY
4	7/11/23	UPDATE TO 8TH ED. (2023) FBC	LFS
3	7/30/20	UPDATE TO 7th ED. (2020) FBC	DAC
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DATE:	2/19/09
SCALE:	N.T.S.
DWG. BY:	AL
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SHEET	8 OF 8