



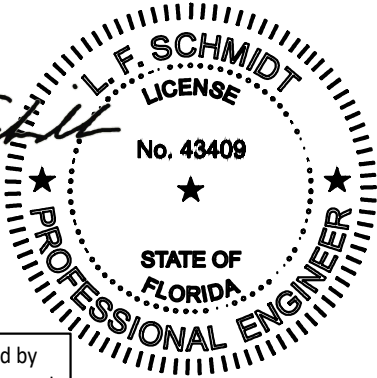
PRIV. DE RIO SANTIAGO #30
COL. LA RAZA
SOLEDAD DE GRACIANO SANCHEZ
SAN LUIS POTOSI, C.P. 78433

'N' SERIES
SINGLE OPAQUE DOOR
"IMPACT"
OUTSWING

Digitally signed by Lyndon F
Schmidt
Date: 2026.07.23 16:51:59
-04'00'

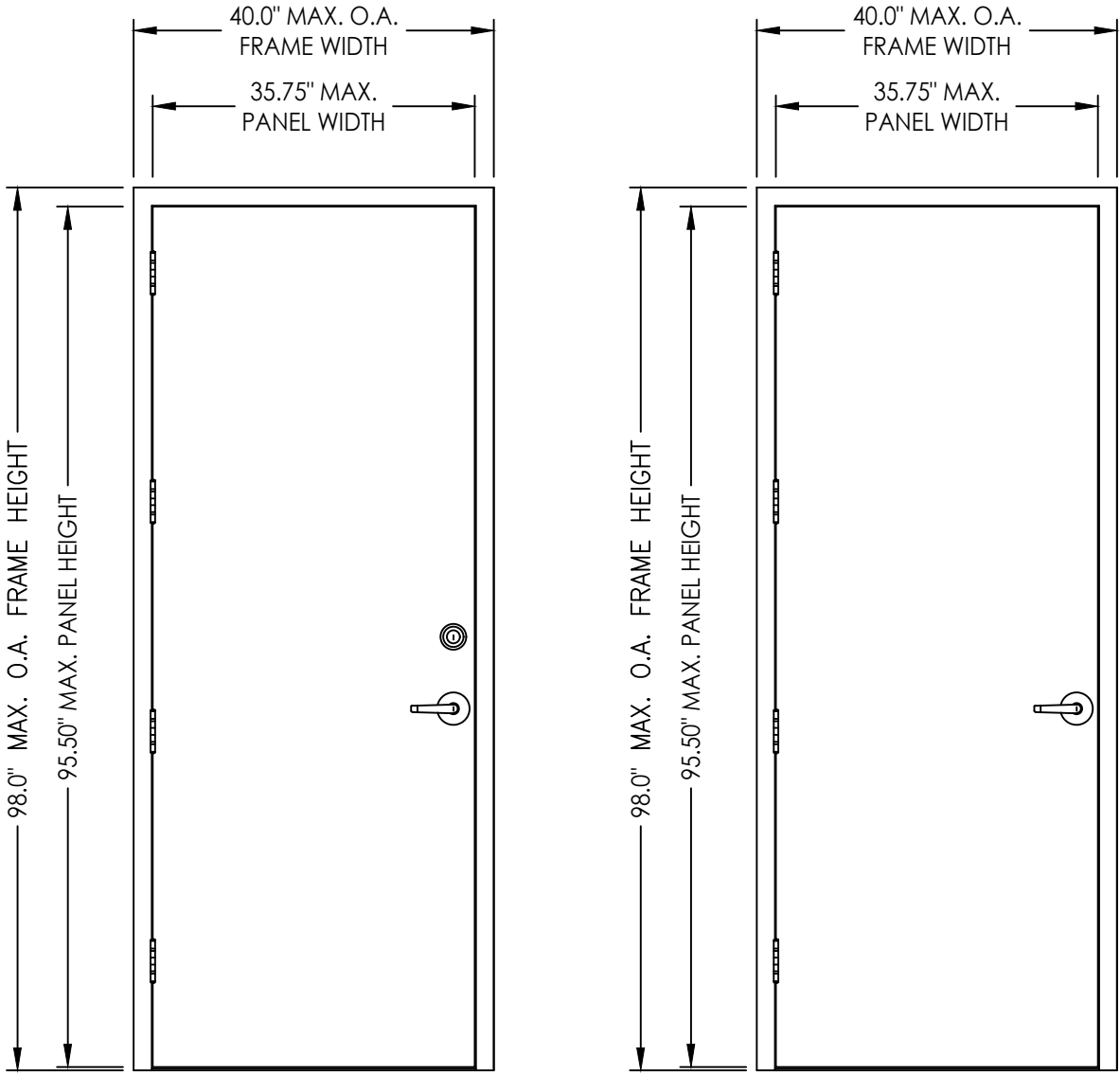
This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.
Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



GENERAL NOTES

- 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).
- Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
- 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.
- The "N" door achieves a Class III stiffness classification per Section 8.2.2 of ANSI A250.13.
- Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.



"N " DOOR

"N" DOOR

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Door panel details
3	Horizontal cross sections
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5	Horizontal cross sections
6	Vertical cross sections
7	Buck and frame anchoring
8	Anchoring details
9	Components
10	Bill of materials and components

DOOR TYPE	OVERALL FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF)	
			POSITIVE	NEGATIVE
N	40.0" x 98.0"	DESIGN LATCH & DEADBOLT	+80.0	-80.0
		SCHLAGE LATCH & DEADBOLT	+80.0	-80.0
		SCHLAGE LATCH	+55.0	-55.0

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

PRODUCT:
MMI
"N" PANELS "IMPACT"

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

5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC	LFS
4	7/10/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC	LFS
2	7/13/17	UPDATE TO 6TH ED. (2017)	FBC	LFS
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK
NO.	DATE			BY

REVISIONS

DATE: 02/18/09

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

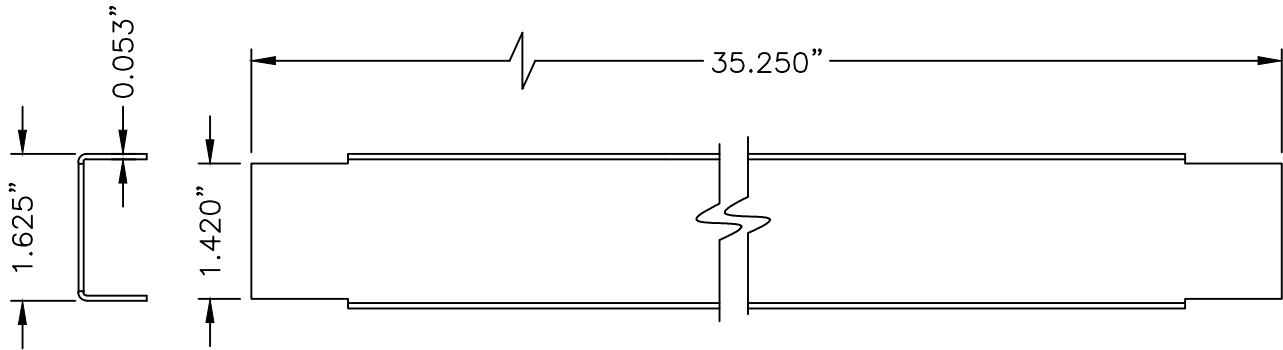
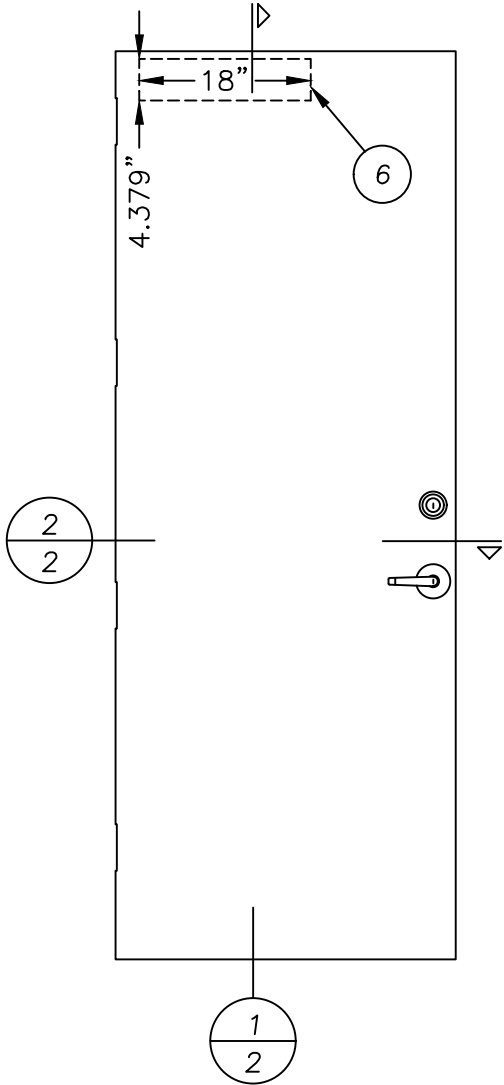
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SHEET 1 OF 10

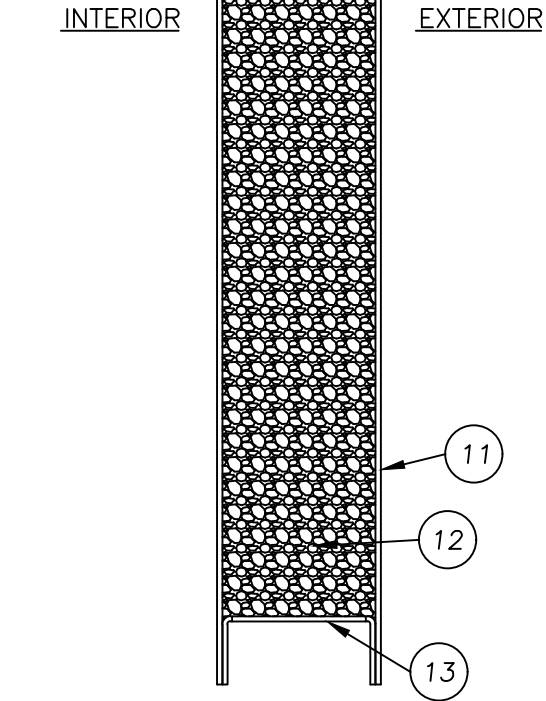
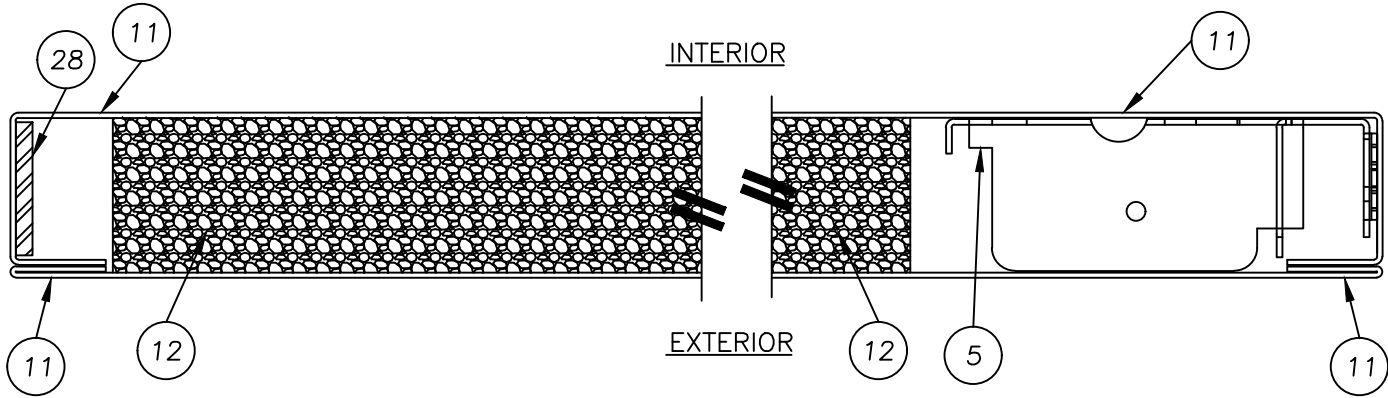
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Phone No.: 813.659.9197
FBPE Registry No. 9813

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13 DOOR TOP & BOTTOM CLOSER
16GA. (.053) C.R.S.

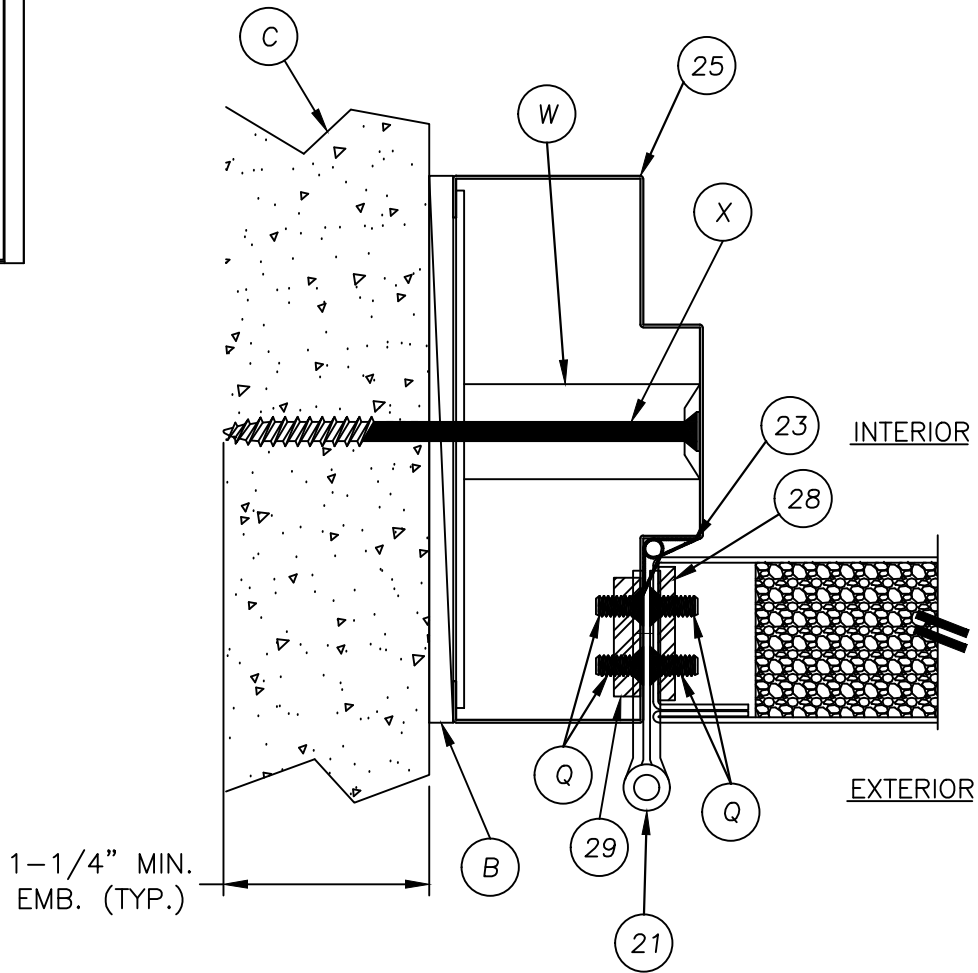
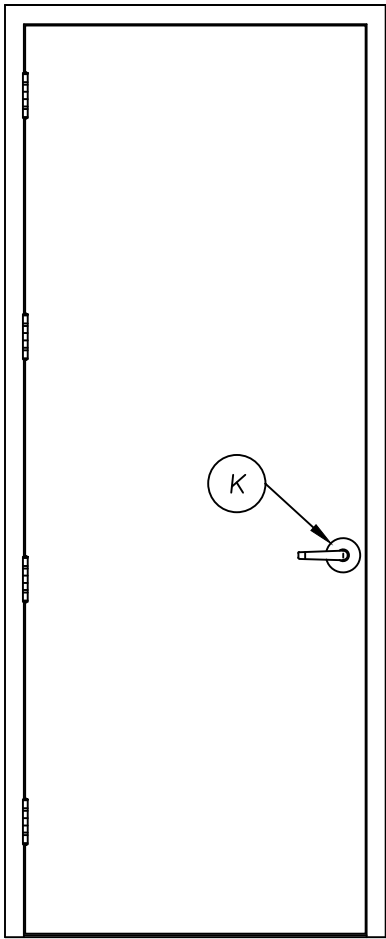
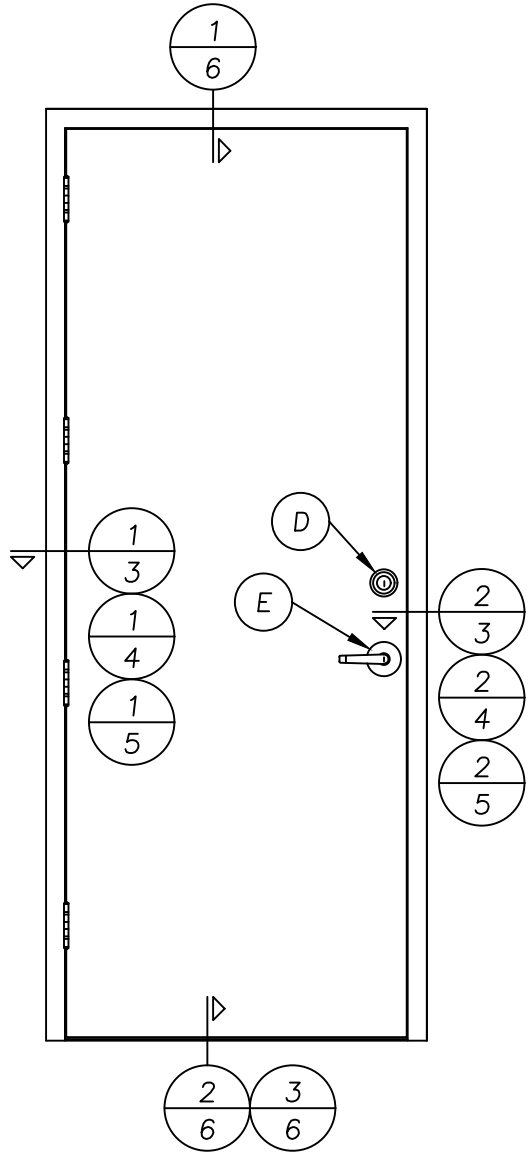


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		PRODUCT: MMI "N" PANELS "IMPACT"		PART OR ASSEMBLY: DOOR PANEL DETAILS	
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4	7/10/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
3	7/30/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
2	7/13/17	UPDATE TO 6TH ED. (2017)	FBC	LFS	
1	10/14/16	UPDATE TO 5TH ED. (2014)	FBC	JK	
NO.	DATE	REVISIONS			
DATE: 02/18/09					
SCALE: N.T.S.					
DWG. BY: JK					
CHK. BY: LFS					
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SHEET 2 OF 10					

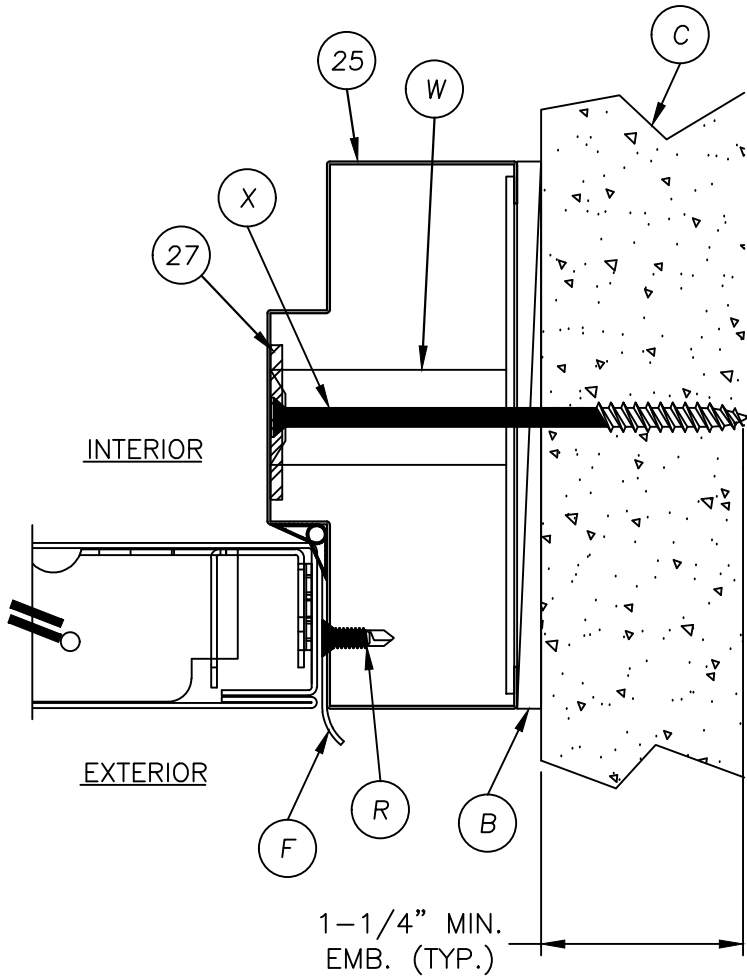
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1 HORIZONTAL CROSS SECTION
@ HINGE
SHOWN WITH TUBE ANCHOR



2 HORIZONTAL CROSS SECTION
@ HINGE
SHOWN WITH TUBE ANCHOR

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PRODUCT:
MMI
"N" PANELS "IMPACT"

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

NO.	DATE	REVISIONS
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SCALE: N.T.S.

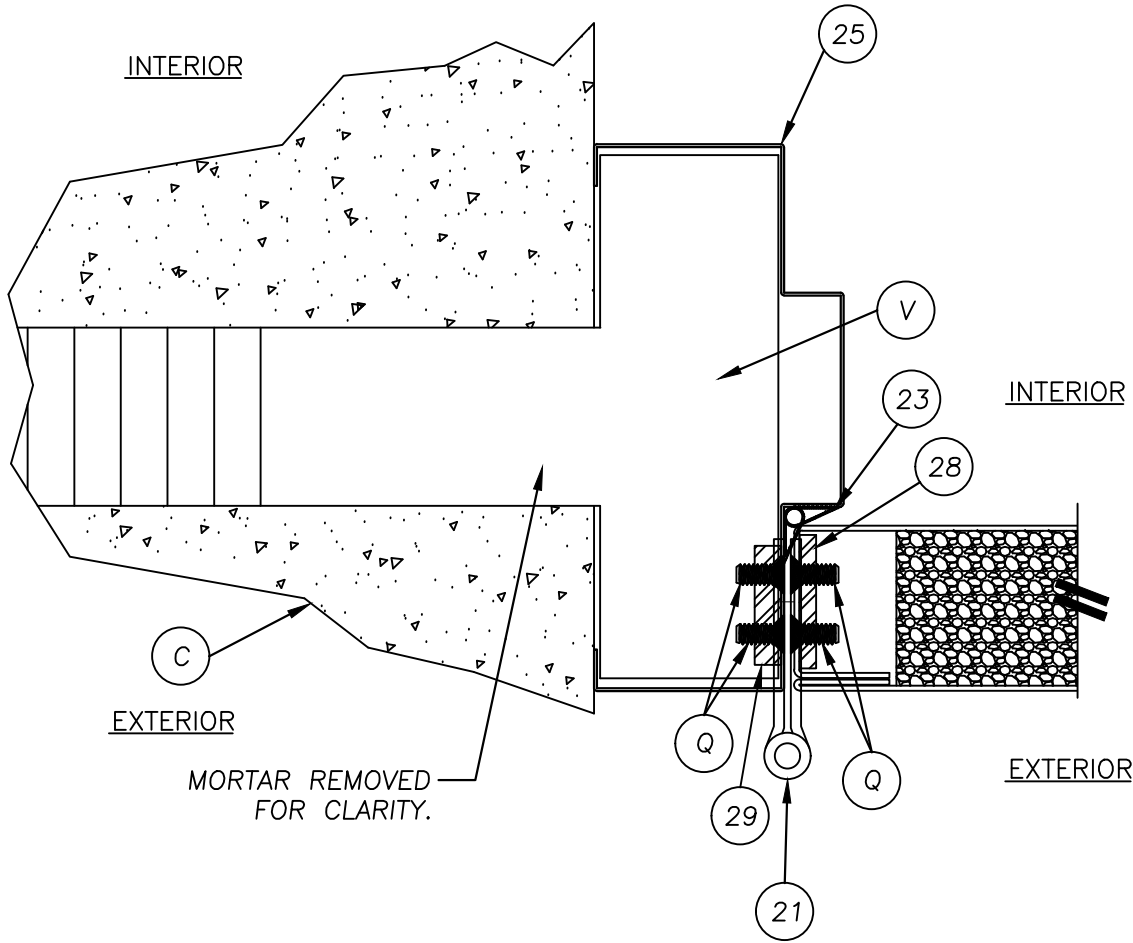
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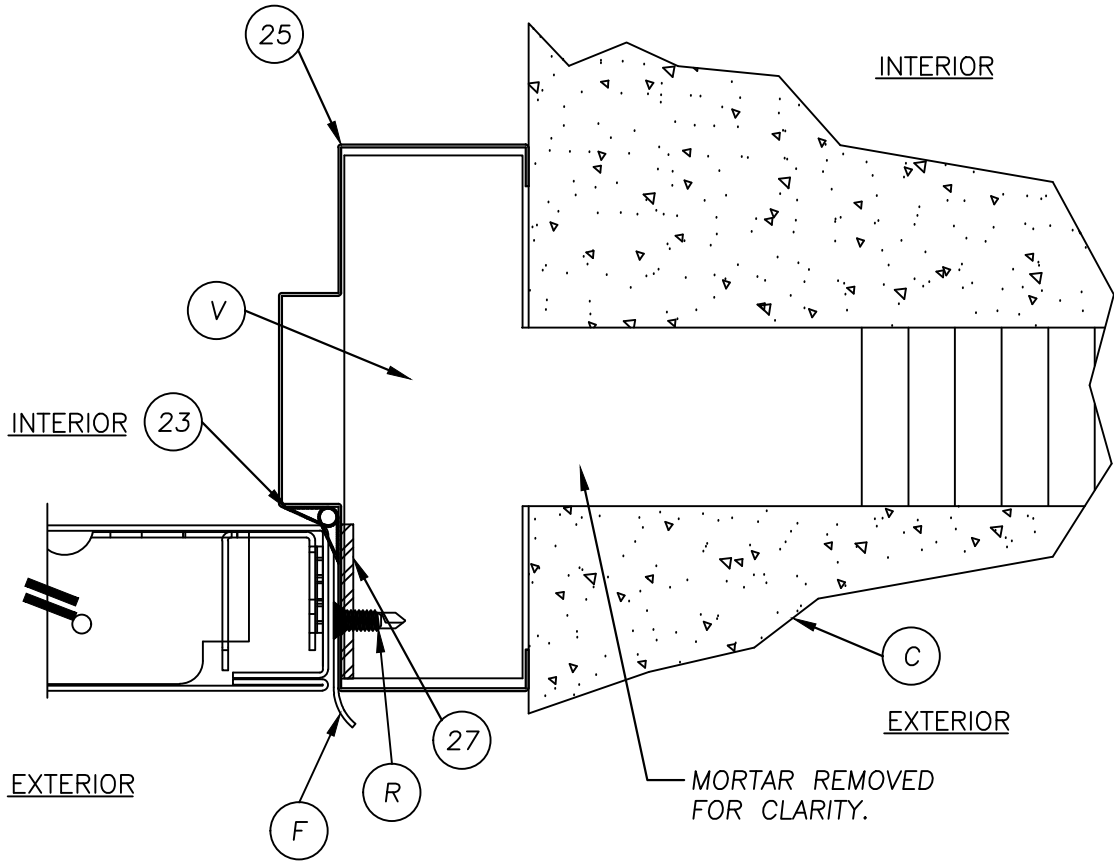
DRAWING NO.: FL-12161.1

SHEET 3 OF 10

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1 HORIZONTAL CROSS SECTION
4 @ LATCH
SHOWN WITH TEE ANCHOR



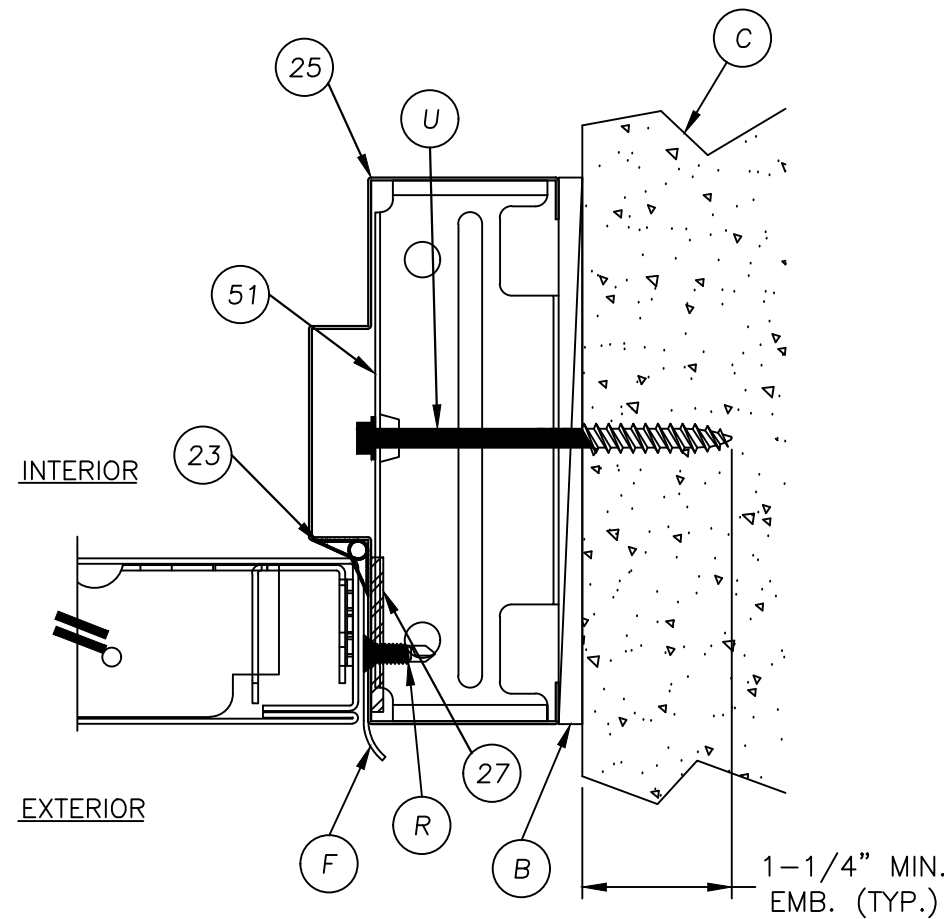
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4 @ LATCH
SHOWN WITH TEE ANCHOR

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PRODUCT:		MMI "N" PANELS "IMPACT"	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
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NO.	DATE		
DATE: 02/18/09			
SCALE: N.T.S.			
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SHEET 4 OF 10			

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1 HORIZONTAL CROSS SECTION
5 @ LATCH
SHOWN WITH UNIVERSAL ANCHOR



2 HORIZONTAL CROSS SECTION
5 @ LATCH
SHOWN WITH UNIVERSAL ANCHOR

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4	7/10/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
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CHK. BY: LFS

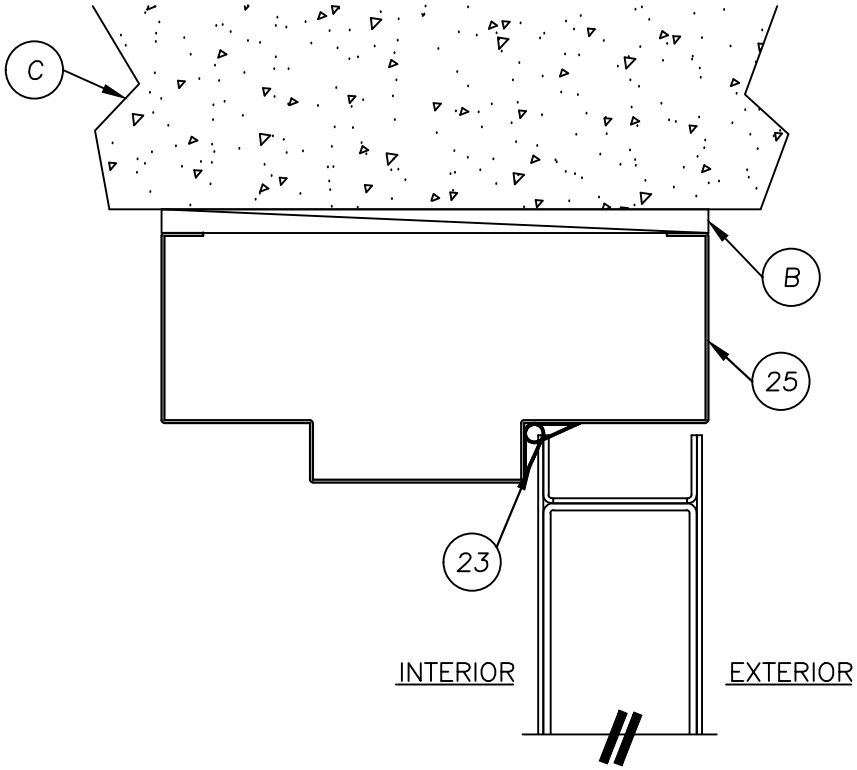
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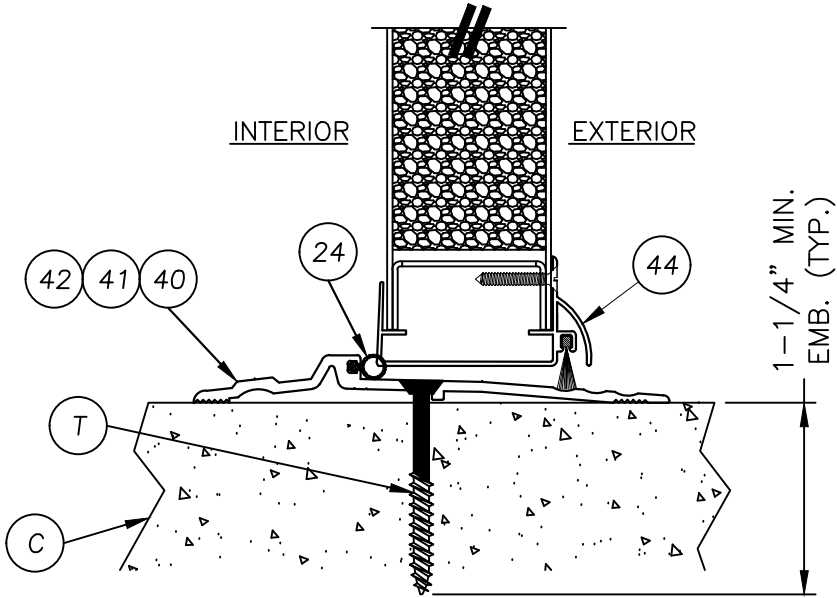
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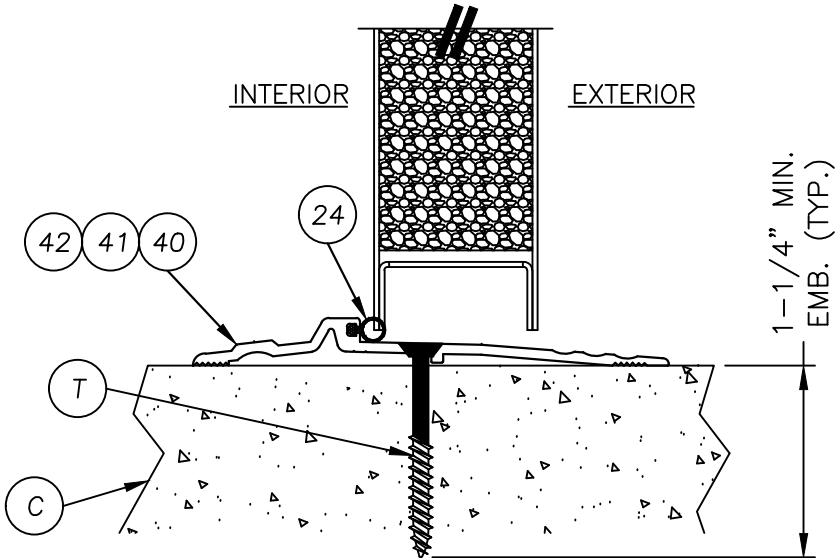
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1 VERTICAL CROSS SECTION
6 @ HEAD



3 VERTICAL CROSS SECTION
6 @ THRESHOLD



2 VERTICAL CROSS SECTION
6 @ THRESHOLD

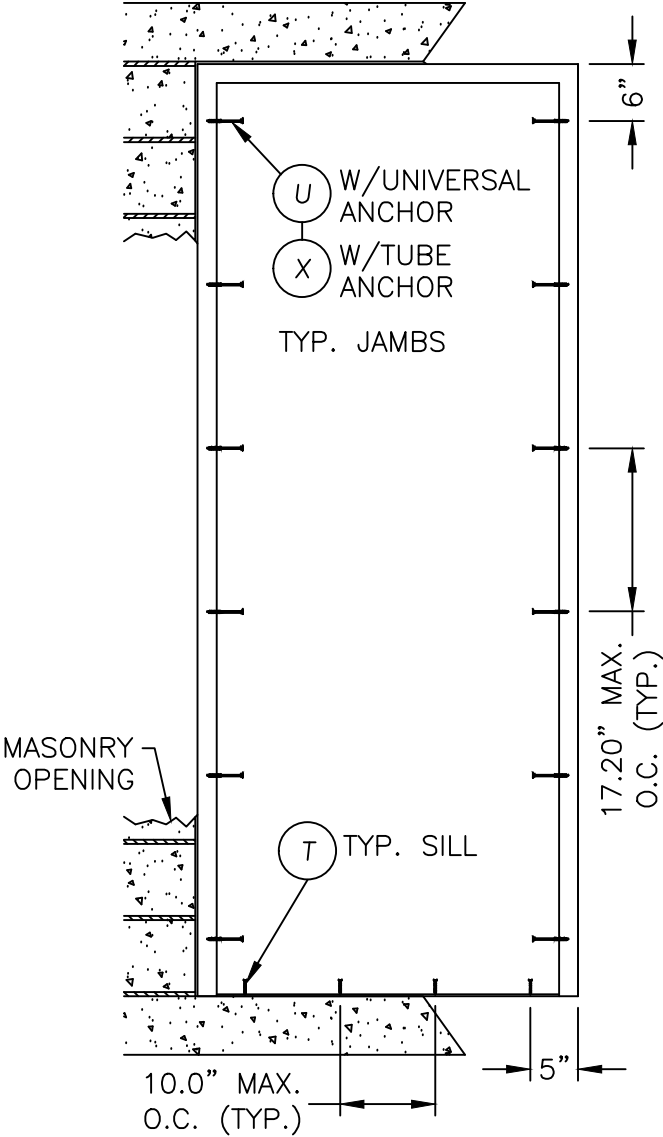
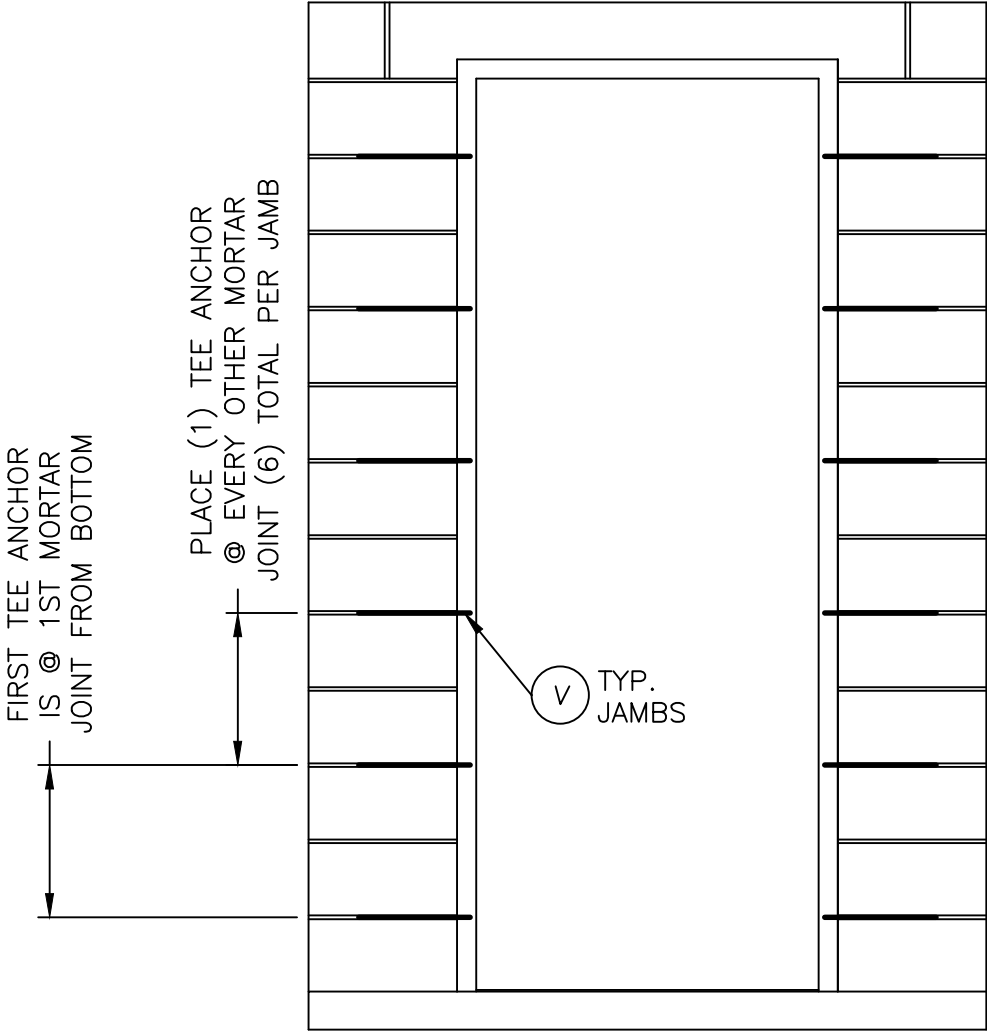
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					REVISIONS				
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SHEET 6 OF 10									

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CONCRETE ANCHOR NOTES:

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. 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.
3. 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"
DeWALT ULTRACON®	1/4"	1-1/4"	2-1/2"	4"
DeWALT ULTRACON®	5/16"	1-1/4"	3-1/8"	5"



PRODUCT:		MMI	
		"N" PANELS "IMPACT"	
PART OR ASSEMBLY:		BUCK AND FRAME ANCHORING	
NO.	DATE	REVISIONS	
		BY	
5	7/01/26	UPDATE TO 9TH ED. (2026)	FBC
4	7/10/23	UPDATE TO 8TH ED. (2023)	FBC
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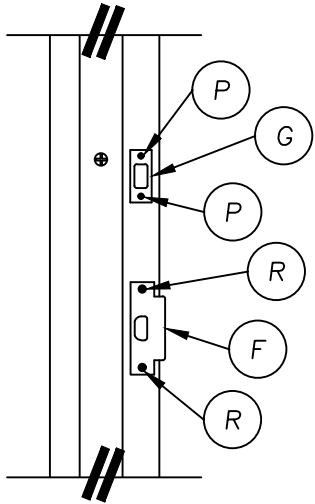
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DRAWING NO.:	FL-12161.1
SHEET	7 OF 10

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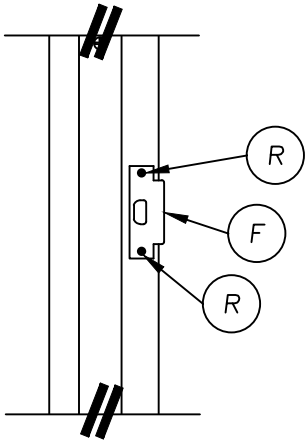
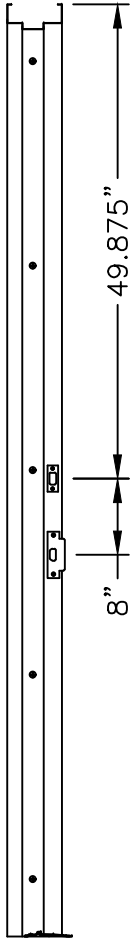
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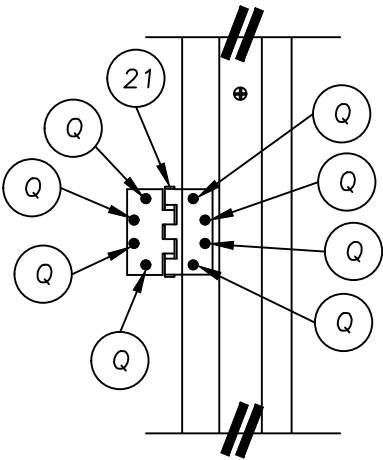
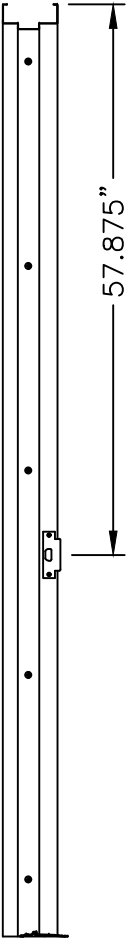
STRIKE PLATE DETAIL
ANSI STRIKE & DEADBOLT

STRIKE PLATE
LOCATIONS 2" HEAD



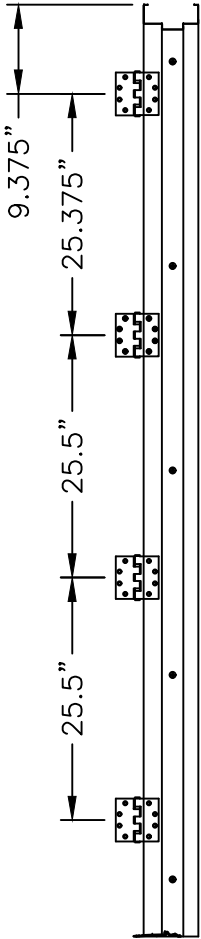
STRIKE PLATE DETAIL
ANSI STRIKE

STRIKE PLATE
LOCATION 2" HEAD



HINGE DETAIL

HINGE LOCATIONS
2" HEAD



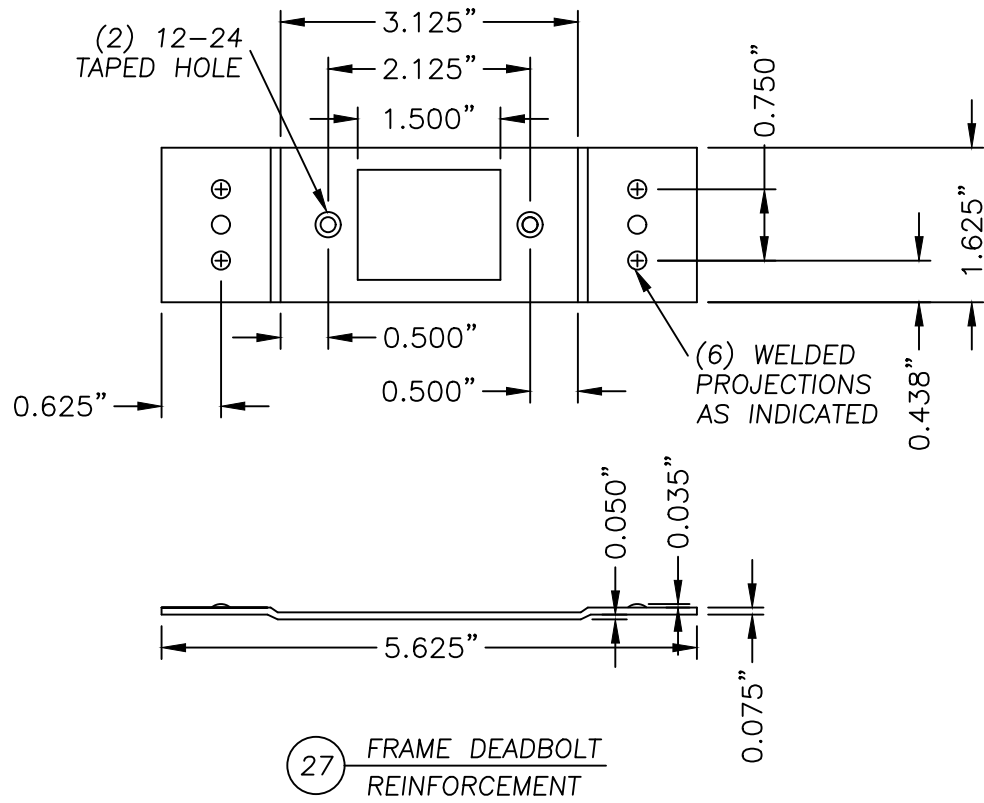
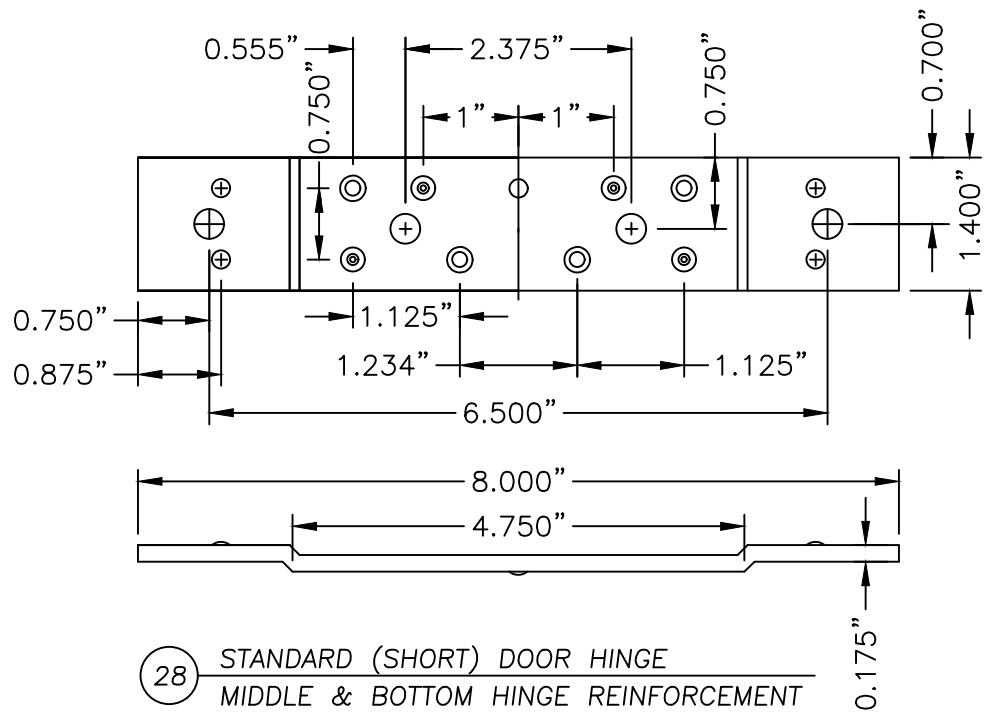
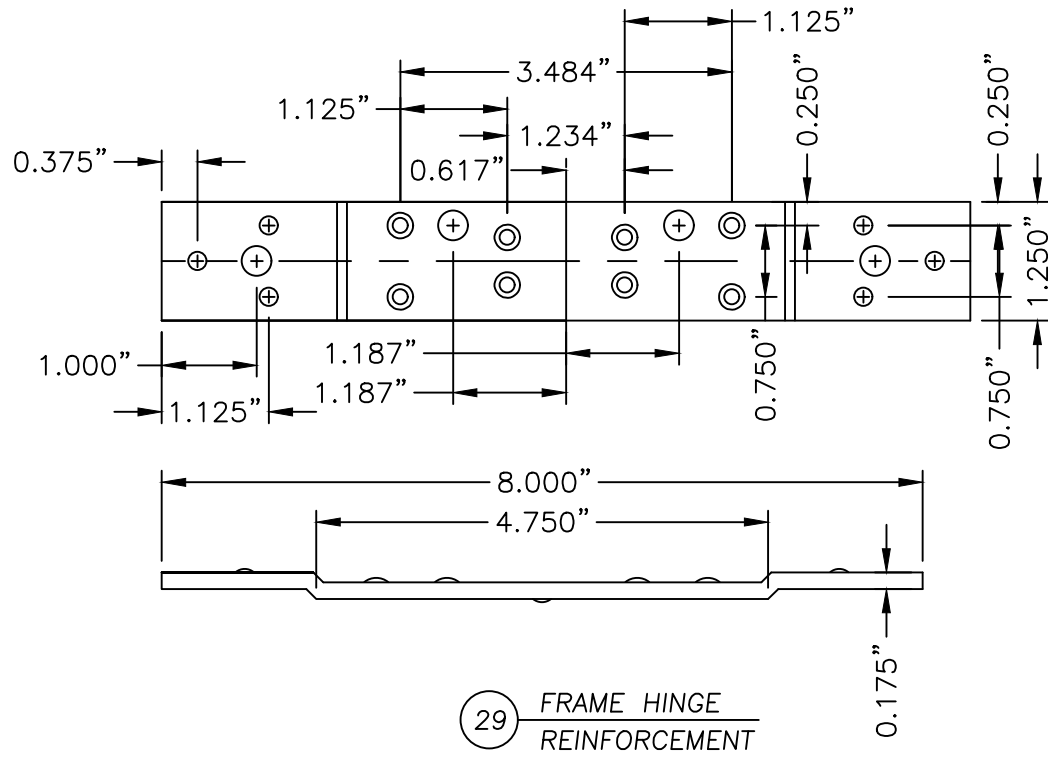
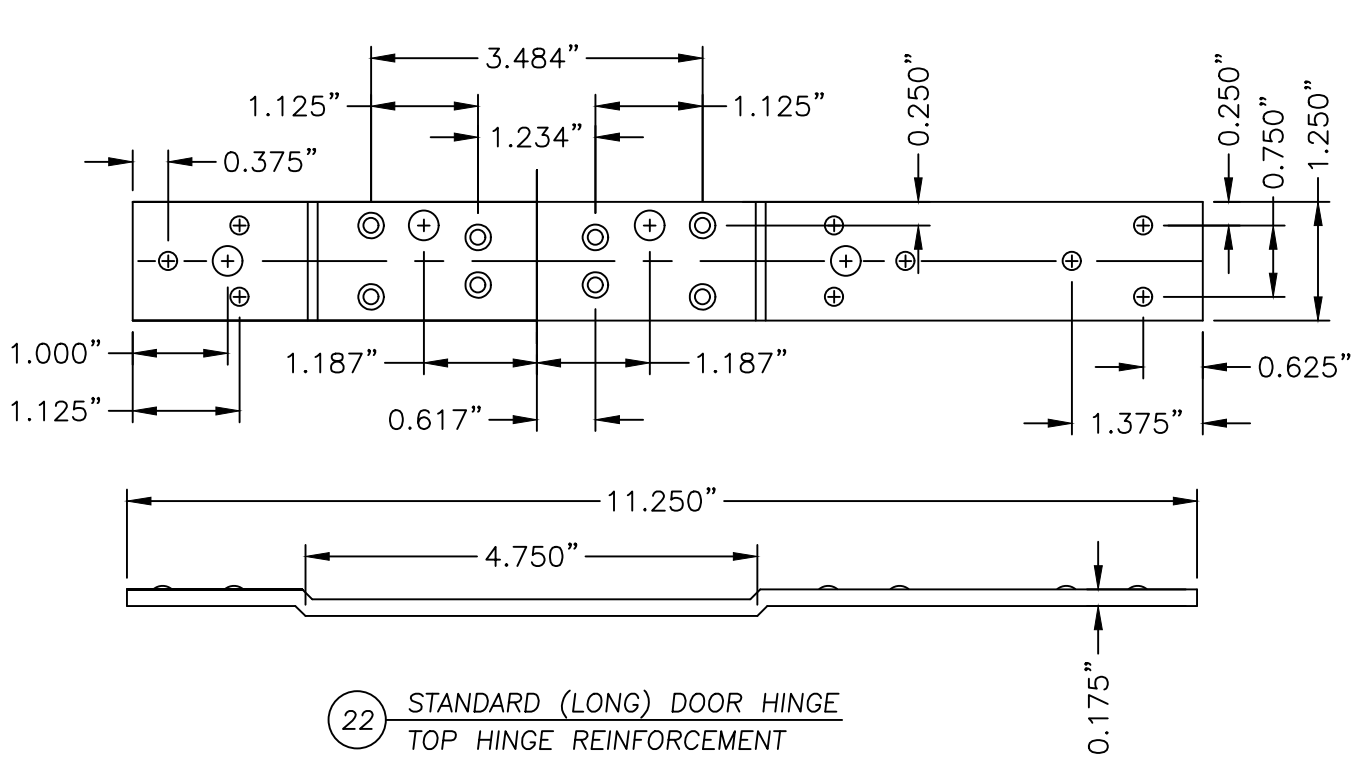
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CHK. BY:	LFS
DRAWING NO.:	FL-12161.1
SHEET	8 OF 10

NO.	DATE	REVISIONS
5	7/01/26	UPDATE TO 9TH ED. (2026) FBC
4	7/10/23	UPDATE TO 8TH ED. (2023) FBC
3	7/30/20	UPDATE TO 7TH ED. (2020) FBC
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JK		
BY		

PRODUCT:	MMI "N" PANELS "IMPACT"
PART OR ASSEMBLY:	ANCHORING DETAILS

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PRODUCT:

MMI
"N" PANELS "IMPACT"

PART OR ASSEMBLY:

COMPONENTS

DATE: 02/18/09

SCALE: N.T.S.

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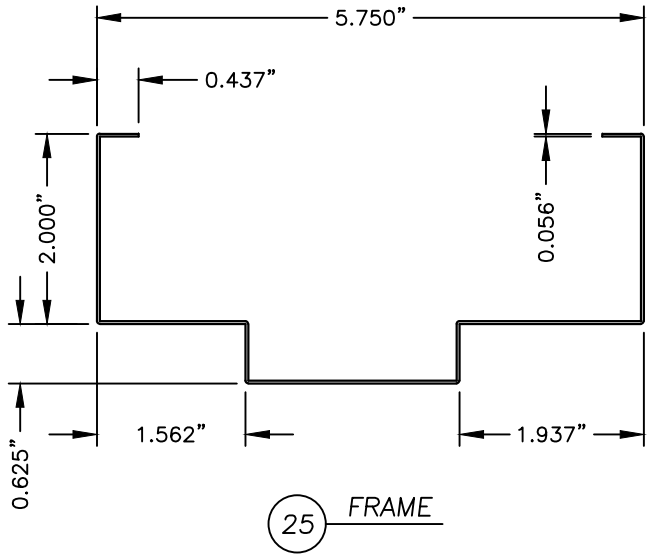
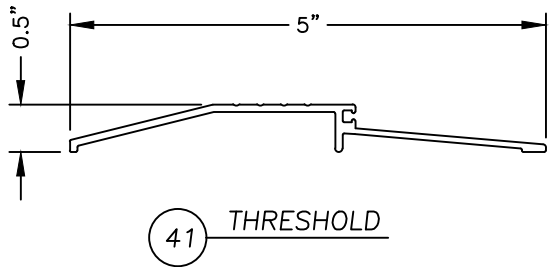
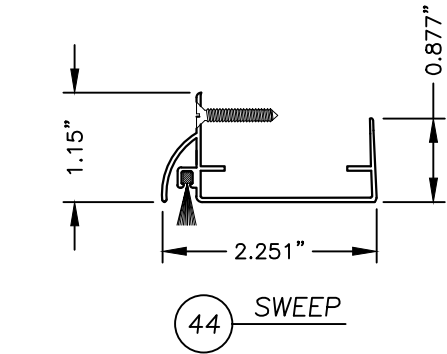
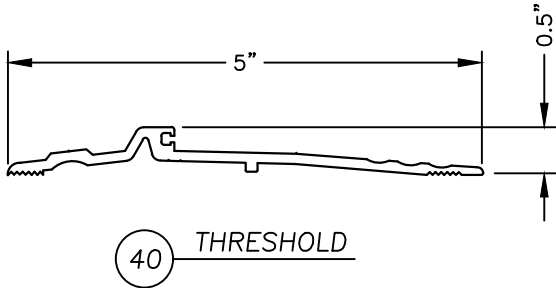
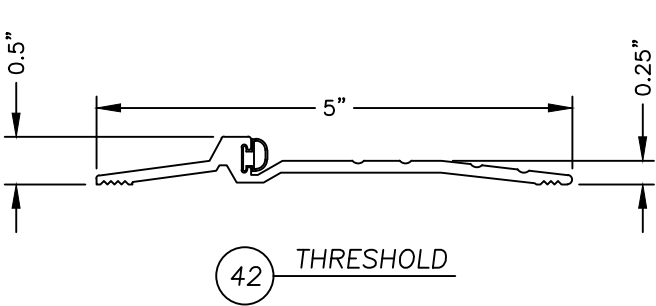
DRAWING NO.:

FL-12161.1

SHEET 9 OF 10

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BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	1/4" MAX. SHIM SPACE	WOOD
C	3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
D	DESIGN HARDWARE D25 DEADBOLT	STEEL
E	DESIGN HARDWARE X82 LATCH (161 PREP)	STEEL
F	LATCH STRIKE PLATE	BRASS
G	DEADBOLT STRIKE PLATE	STEEL
K	SCHLAGE LOCKSET ASSEMBLY ND53PD	STEEL
P	#8 X 3/4" PFH SCREW	STEEL
Q	#12 X 1/2" MACHINE SCREW	STEEL
R	#12 X 3/4" PFH SELF TAPPING MACHINE SCREW	STEEL
T	1/4" X 2-1/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL
U	5/16" X 3-3/4" HWH DeWALT CONCRETE SCREW	STEEL
V	MASONRY 'TEE' ANCHOR (PFMT5)	STEEL
W	TUBE ANCHOR	STEEL
X	5/16" X 5" PFH DeWALT CONCRETE SCREW	STEEL
5	LOCK BOX REINFORCEMENT	STEEL
6	CLOSER REINFORCEMENT	STEEL
11	DOOR SKIN (.055" THK. STEEL, Fy=40,300 PSI MIN) (N DOOR)	STEEL
12	FOAM (N DOOR) 1.0 PCF MIN. DENSITY	POLYSTYRENE
13	DOOR TOP & BOTTOM CLOSER (N DOOR)	STEEL
21	HINGE	STEEL
22	STD. (LONG) DOOR HINGE REIN. (TOP HINGE PDNLHR 450)	STEEL
23	WEATHERSTRIP	FOAM
24	THRESHOLD WEATHERSTRIP (NATIONAL GUARD PRODUCTS, INC. ITEM #33)	VINYL
25	FRAME 5-3/4" MIN. WITH 2" HEAD	STEEL
27	14GA. (.075") C.R.S. 161 DEADBOLT FRAME REINFORCEMENT (PFDBR4)	STEEL
28	STD. (SHORT) DOOR HINGE REIN. (MIDDLE & BOTTOM) PDNHR450)	STEEL
29	STD. 4-1/2" FRAME HINGE REINFORCEMENT 7GA.(.175" PF4HR)	STEEL
40	OUTSWING THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
41	OUTSWING THRESHOLD NATIONAL GUARD PRODUCTS, INC. #950	ALUMINUM
42	OUTSWING THRESHOLD PEMKO #2005 V	ALUMINUM
44	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
51	FRAME REINFORCEMENT	STEEL



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PRODUCT: MMI "N" PANELS "IMPACT"				PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS			
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NO.	DATE			BY			
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SHEET 10 OF 10							