

Z:\2023 FBC Drawings\Premier Products, Inc\FL-41788 R2\FL-41788.16-21.dwg

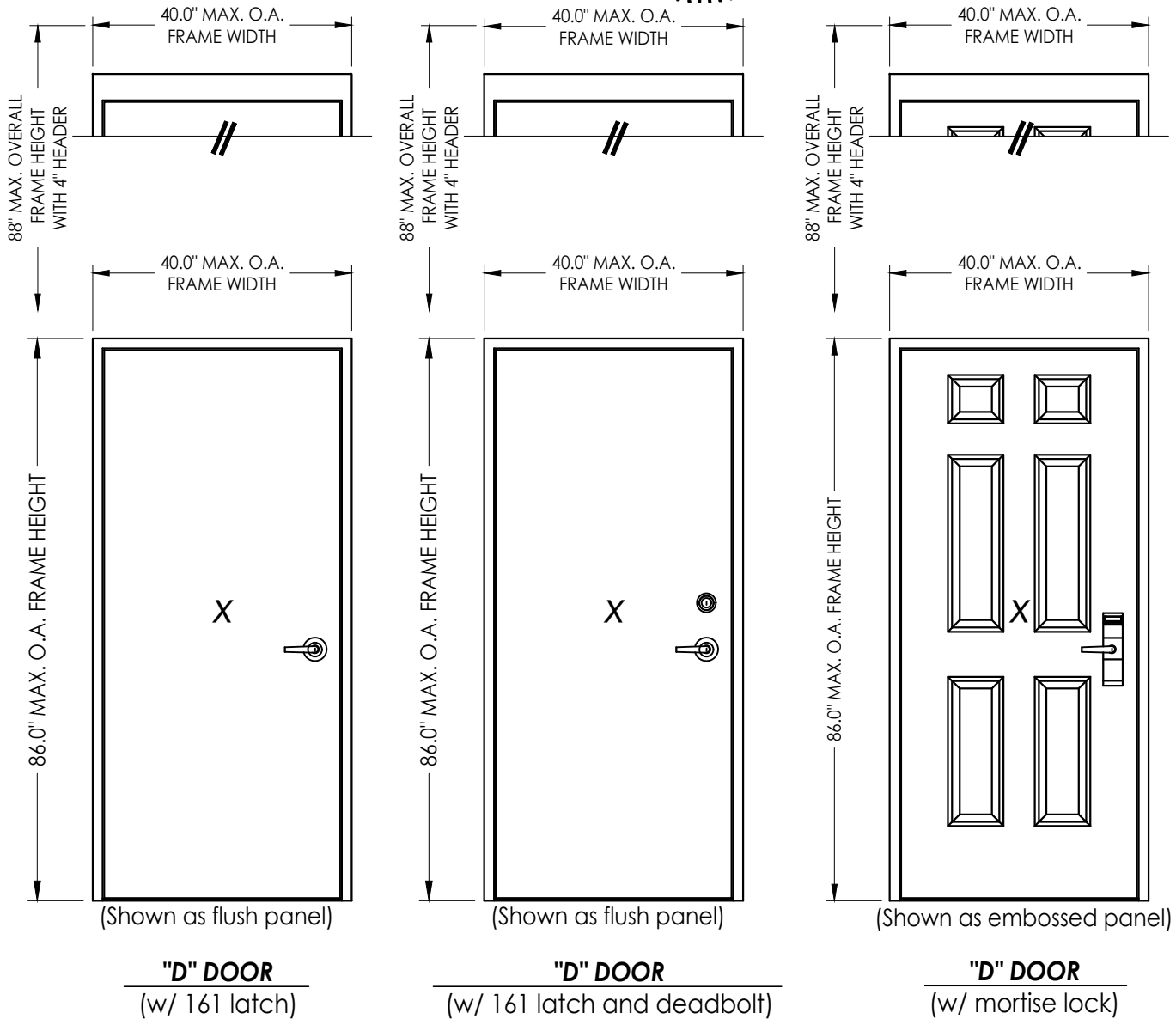


"D" SERIES
COMMERCIAL STEEL DOOR
INSWING
"IMPACT"

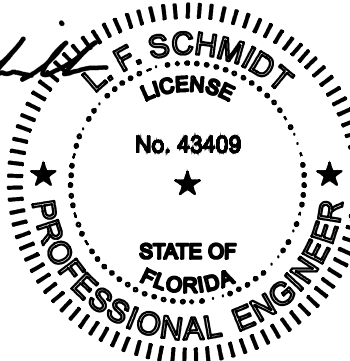
GENERAL NOTES

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. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
5. Inswing configurations do not meet the water infiltration requirements for the "HVHZ". Inswing units 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.
6. All steel shall be protected as specified in Section 2222.6 of the FBC.

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SHEET #	DESCRIPTION
1	Typical elevations, design pressures, & general notes
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3	Door panel sections 86E mortise lock prep
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6	Horizontal cross sections
7	Vertical cross sections
8	Frame anchoring
9	Anchoring details
10	Components
11	Bill of materials & components



OVERALL FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
40.0" x 86.0"	161 LATCH (SCHLAGE)	+55.0	-55.0
40.0" x 86.0"	161 LATCH & DEADBOLT (DESIGN HARDWARE)	+70.0	-75.0
40.0" x 86.0"	86E MORTISE LOCK (ONITY)	+60.0	-75.0



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

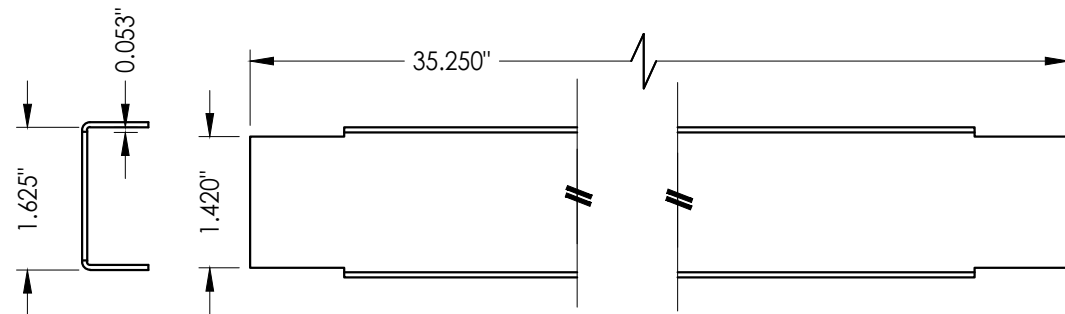
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

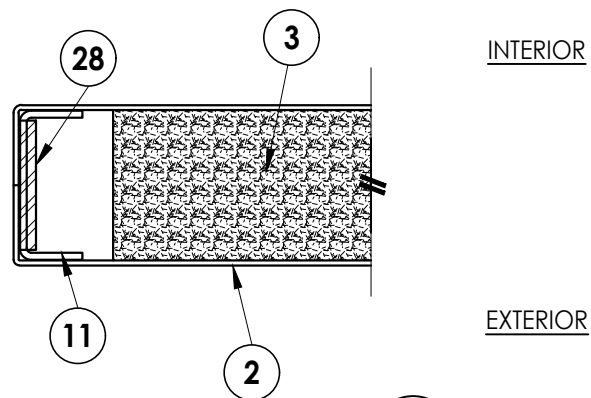
PRODUCT: PREMIER PRODUCTS, INC.
"D" STEEL DOOR
PART OR ASSEMBLY:
TYPICAL ELEVATIONS, DESIGN
PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS	
		BY	DATE
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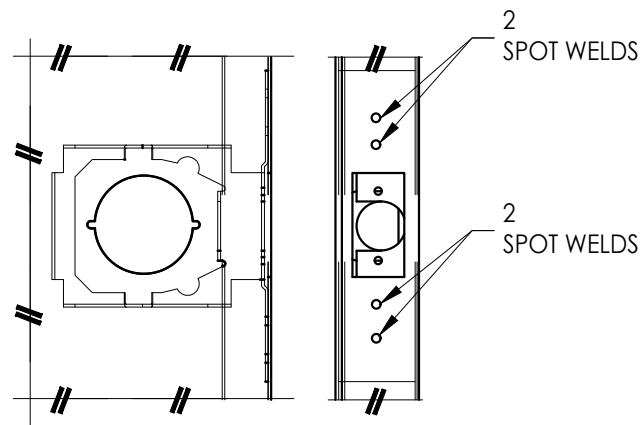
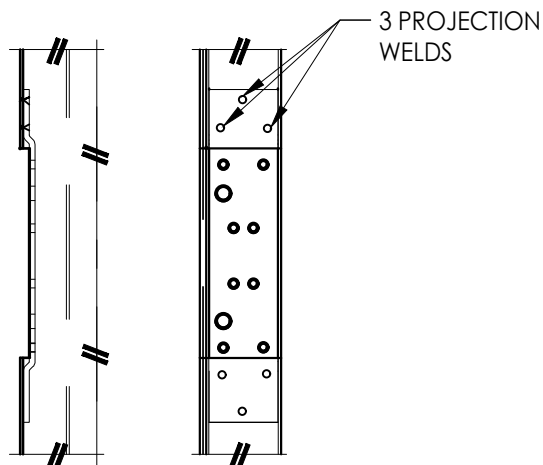
DATE: 11/10/22
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.:
FL-41788.16
SHEET 1 OF 11



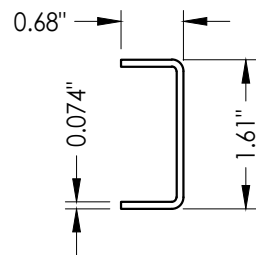
23 DOOR HINGE REINFORCEMENT



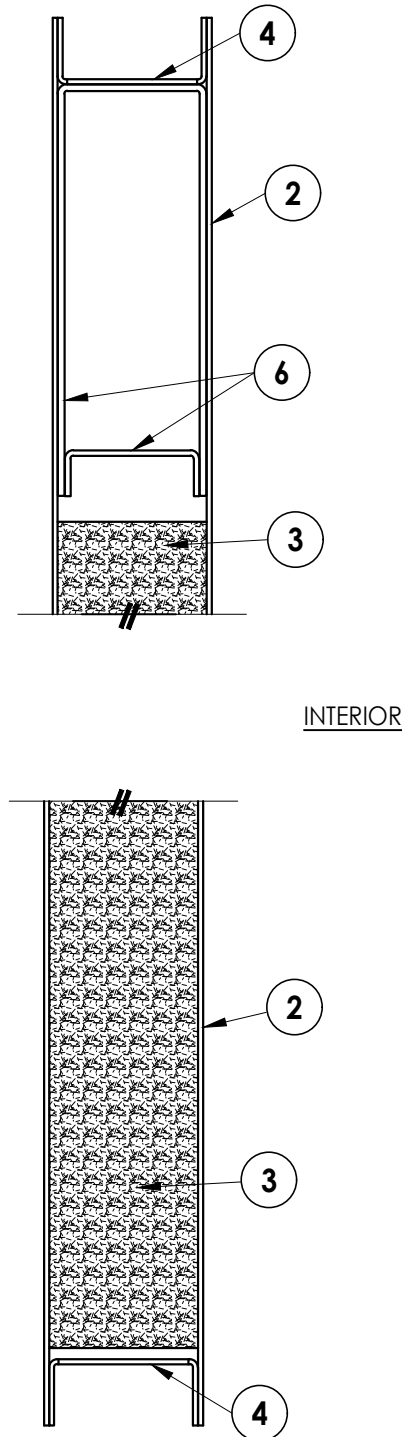
2 HORIZONTAL CROSS SECTION
2 Door panel



5 LOCK BOX REINFORCEMENT



11 DOOR STILE EDGE Reinforcement



1 VERTICAL CROSS SECTION
2 Door panel

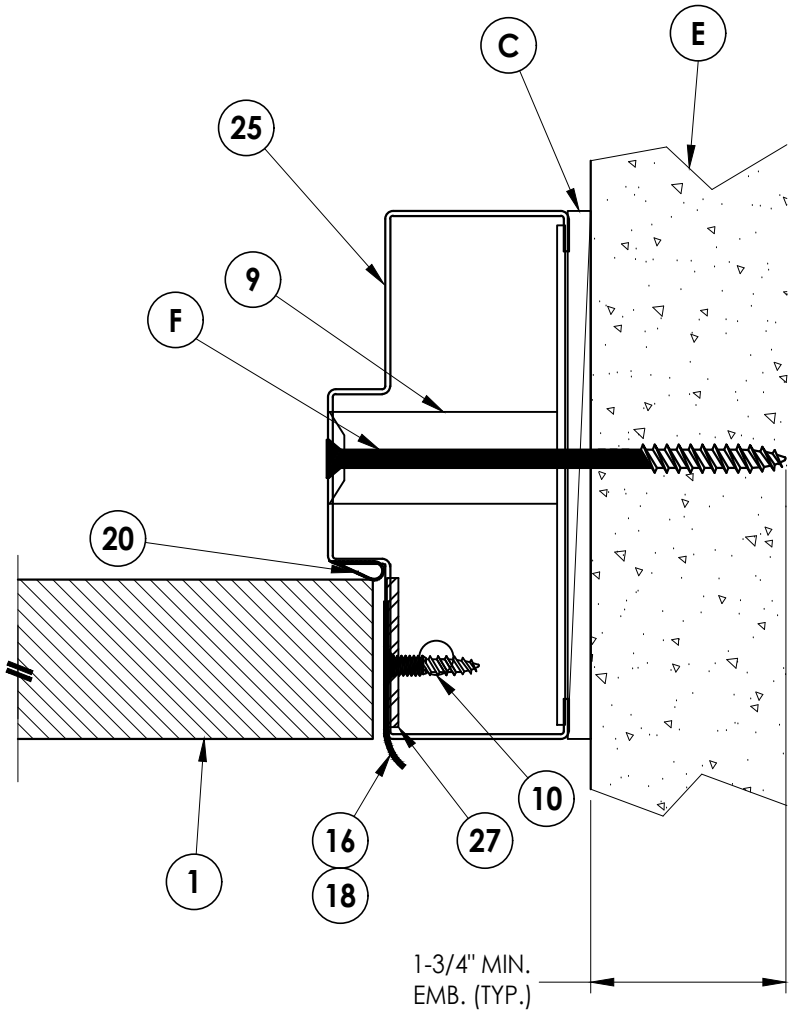
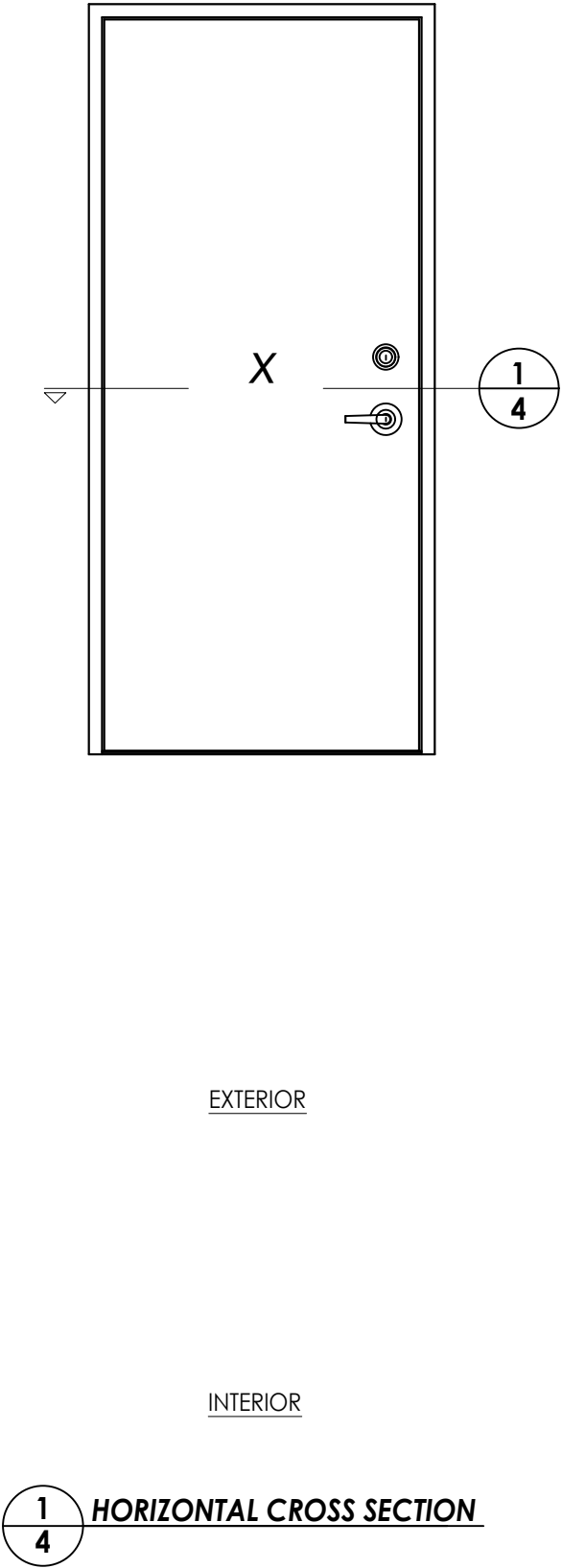
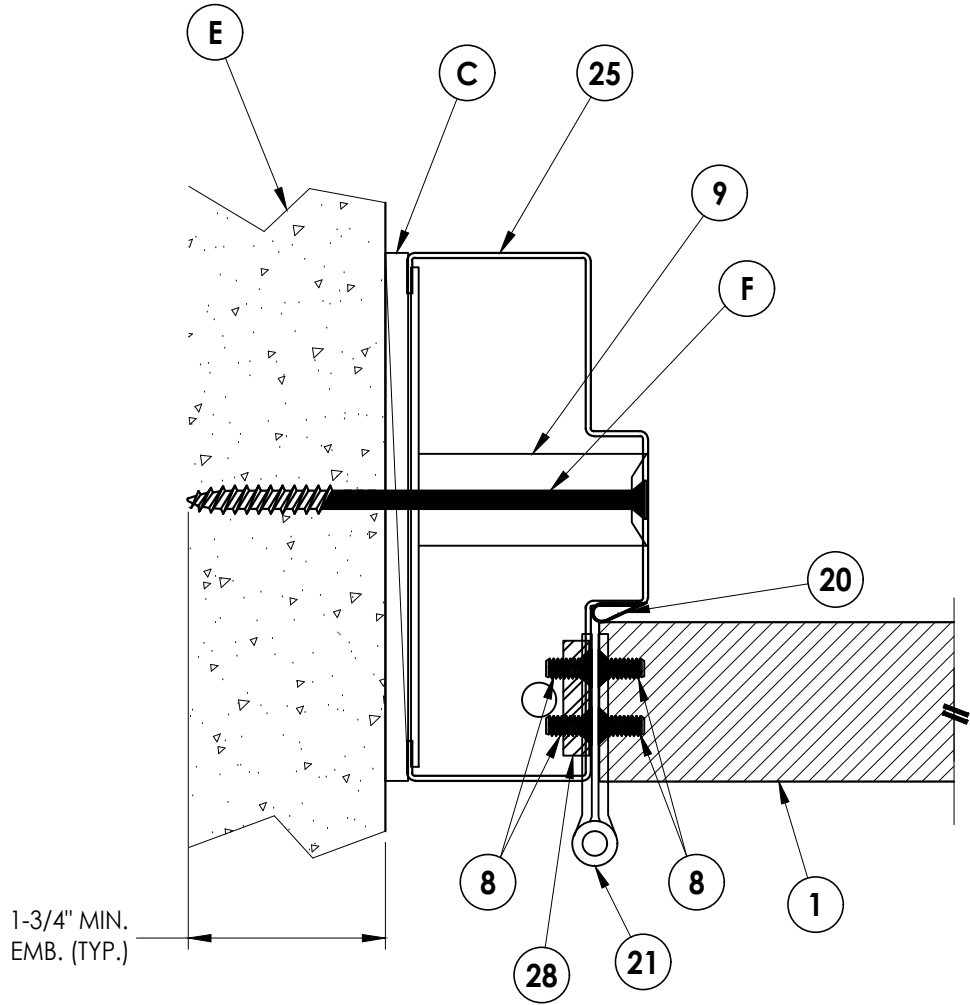
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Documents Prepared By:
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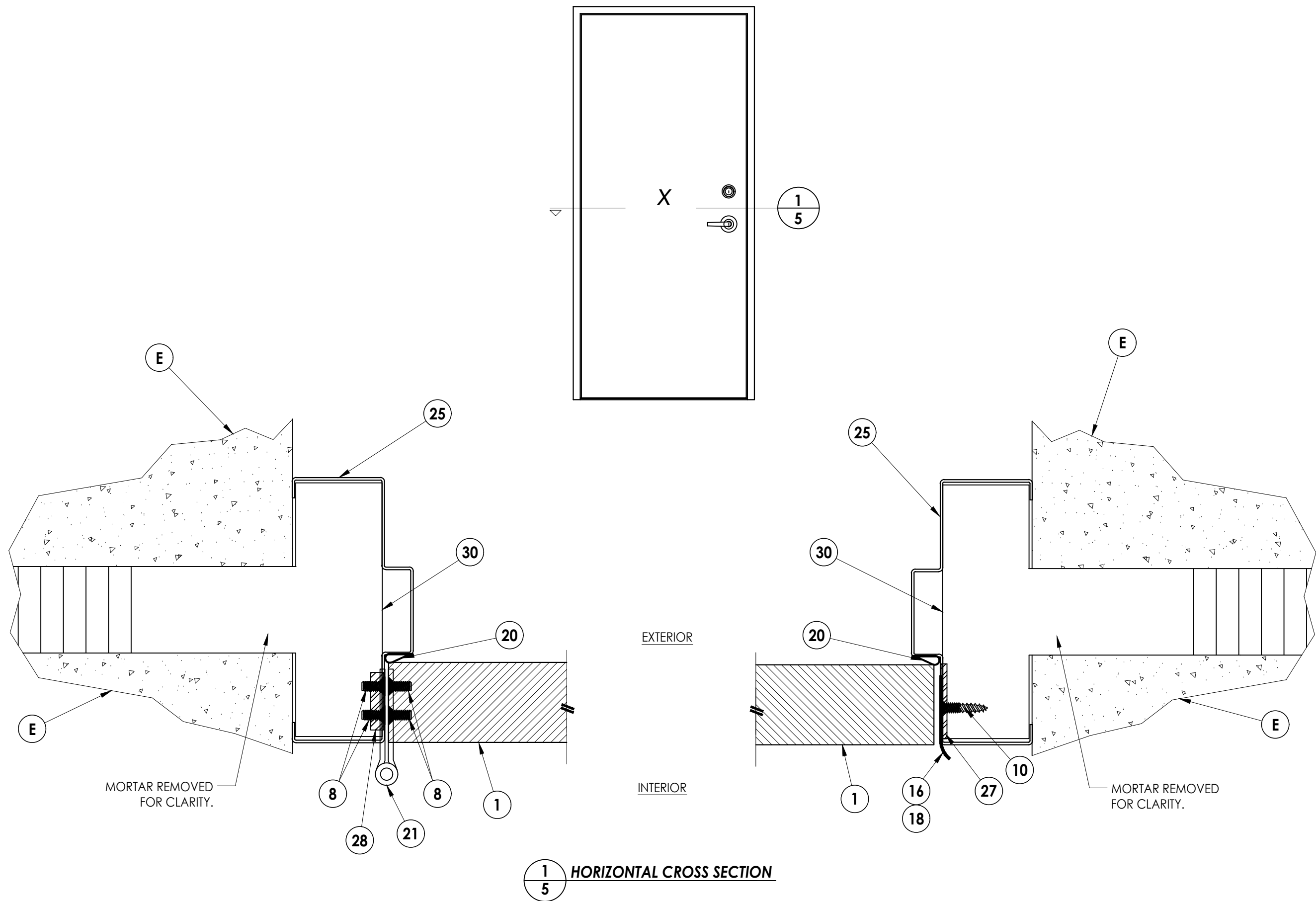
R^W BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 334
Phone No.: 813.659.9197
FBPE Registry No. 9813

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DATE: 11/10/22				DOCUMENTS PREPARED BY:	
SCALE: N.T.S.				Lyndon F. Schmidt	
DWG. BY: LFS				P.E. No. 43409	
CHK. BY: RW					



1	8/21/23	UPDATE TO 8TH ED. (2023)	FBC	LFS
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REVISIONS				

DATE: 11/10/22
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CHK. BY: RW
DRAWING NO.: FL-41788.16
SHEET <u>5</u> OF <u>11</u>

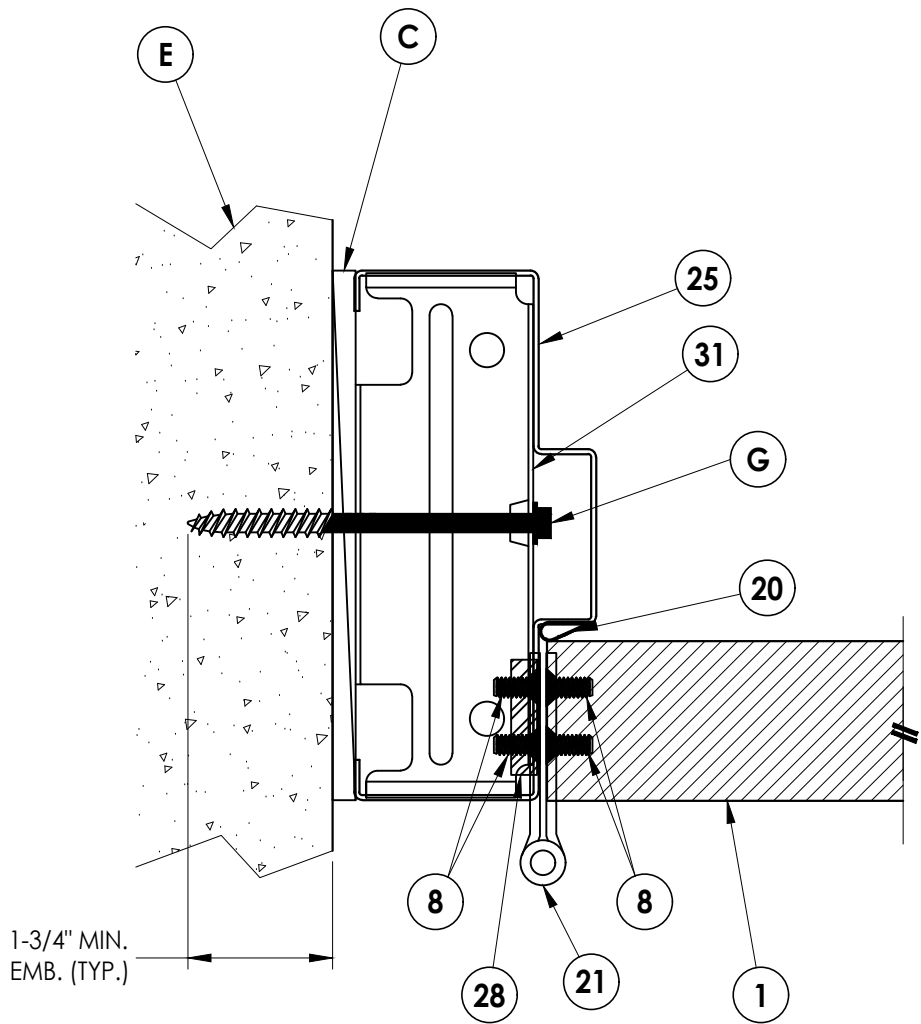
PRODUCT: PREMIER PRODUCTS, INC.
"D" STEEL DOOR

PART OR ASSEMBLY:

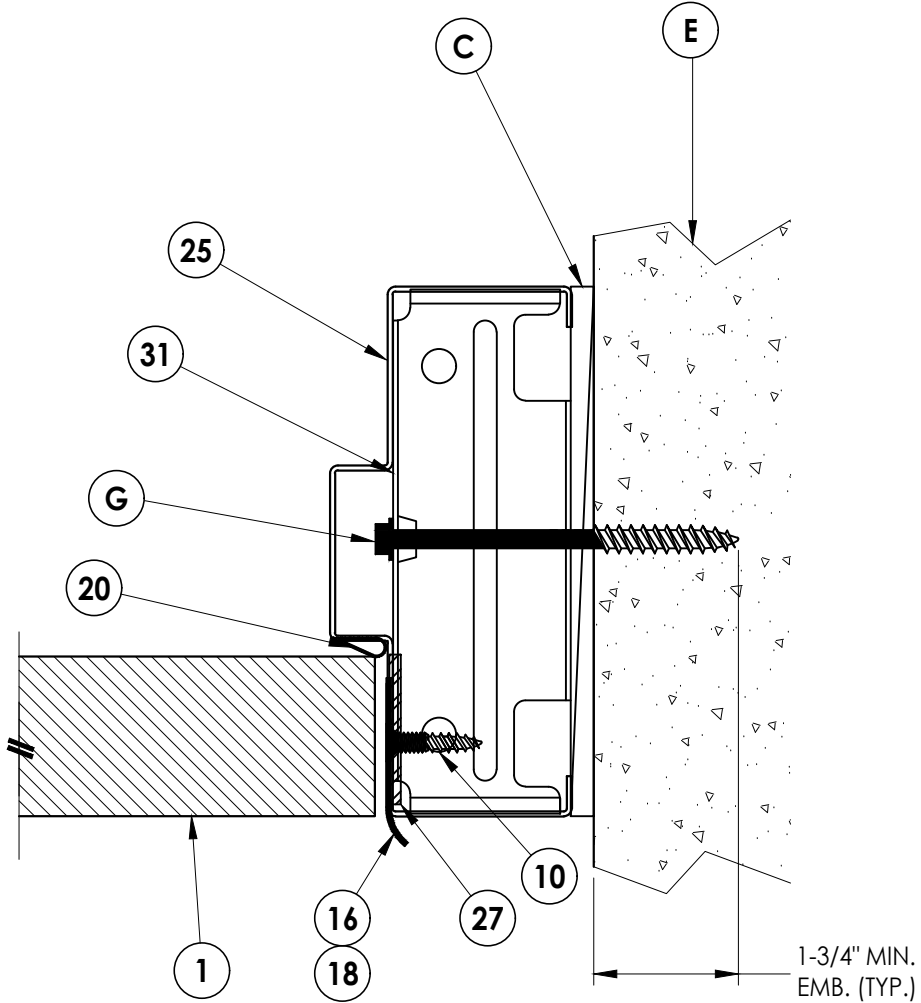
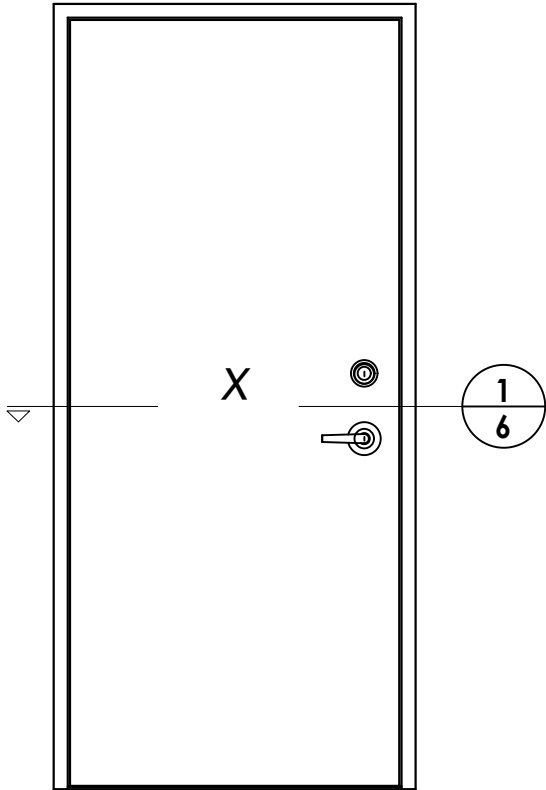
HORIZONTAL CROSS SECTIONS

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1
6 **HORIZONTAL CROSS SECTION**



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SHEET 6 OF 11

NO.		DATE	REVISIONS	
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				BY

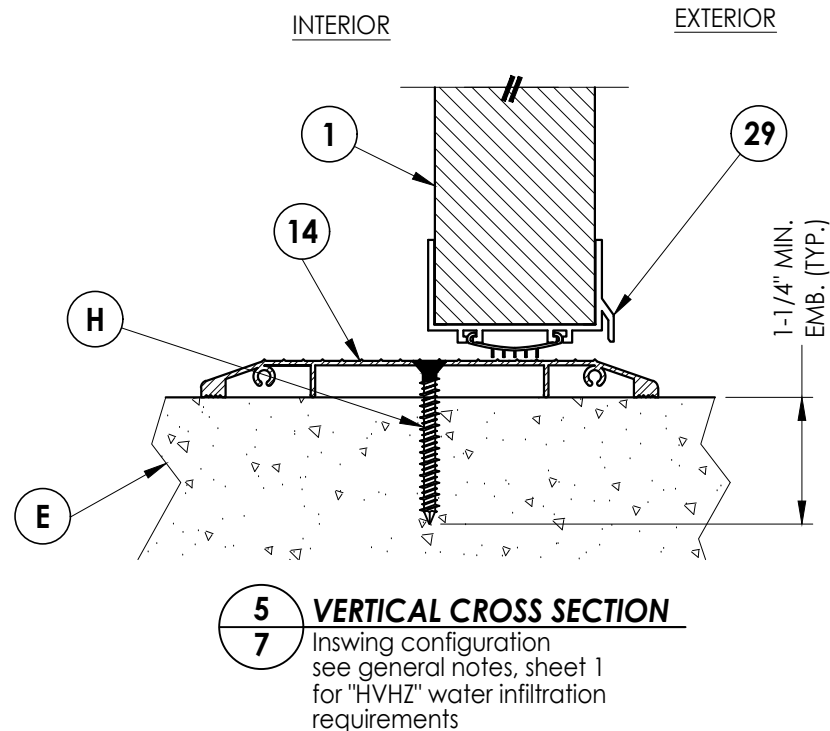
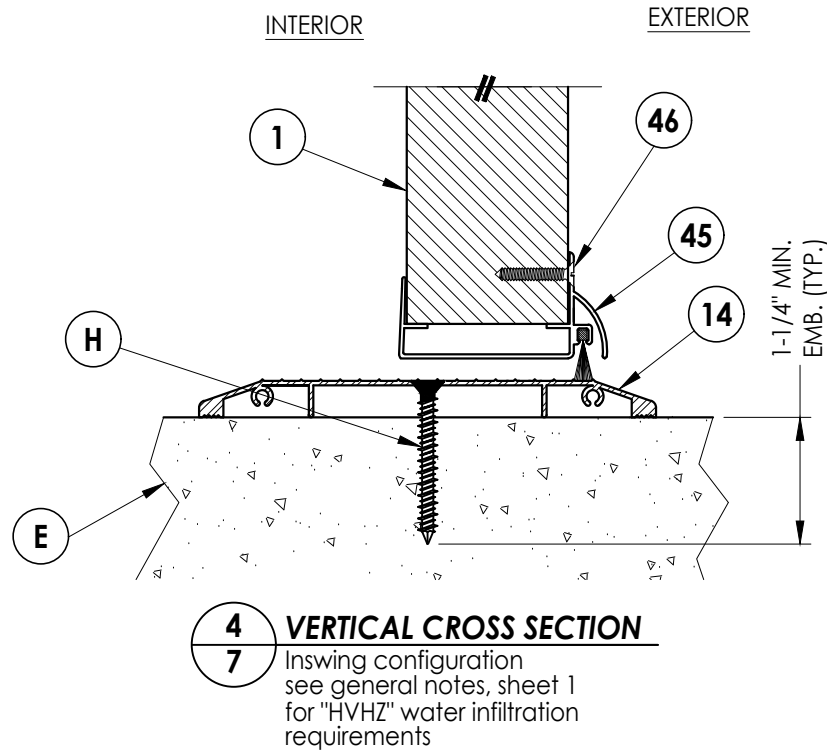
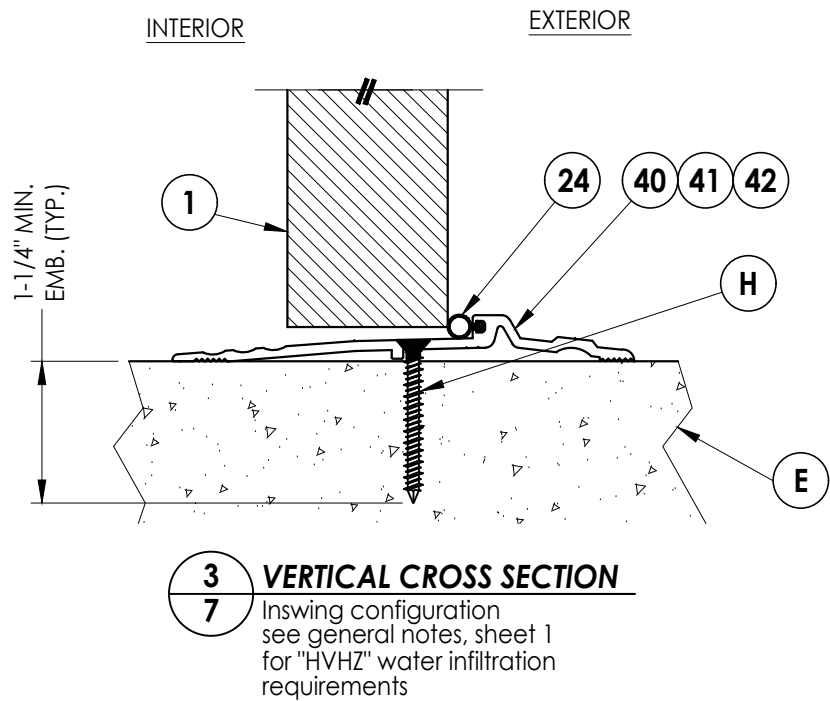
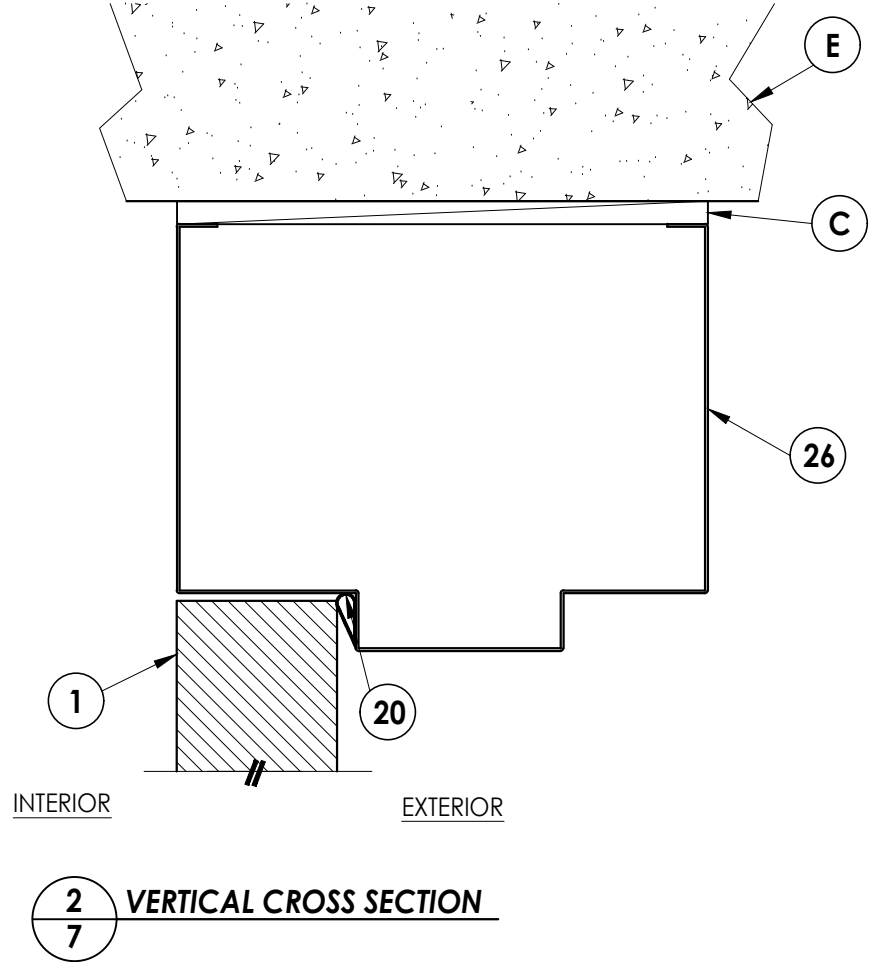
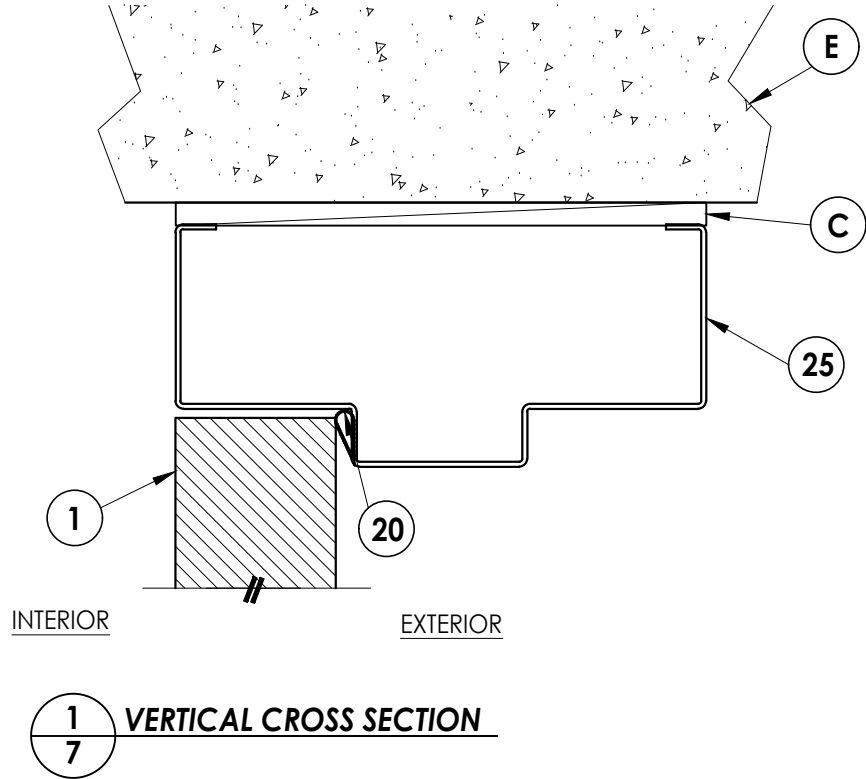
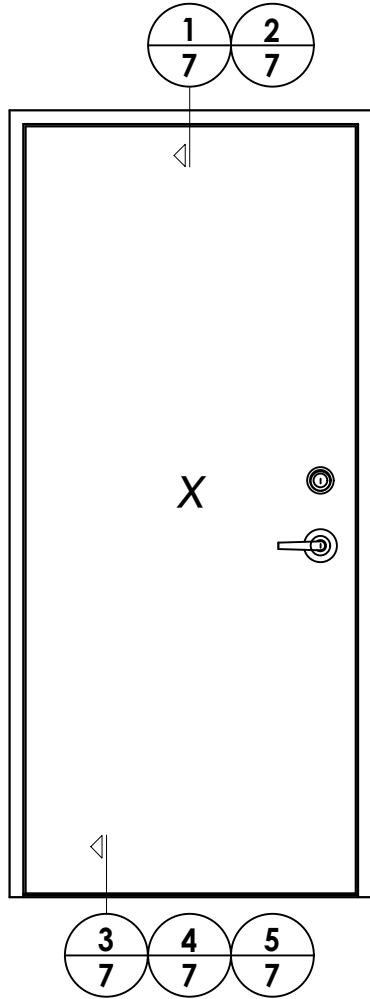
PRODUCT:
PREMIER PRODUCTS, INC.
"D" STEEL DOOR

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

Documents Prepared By:
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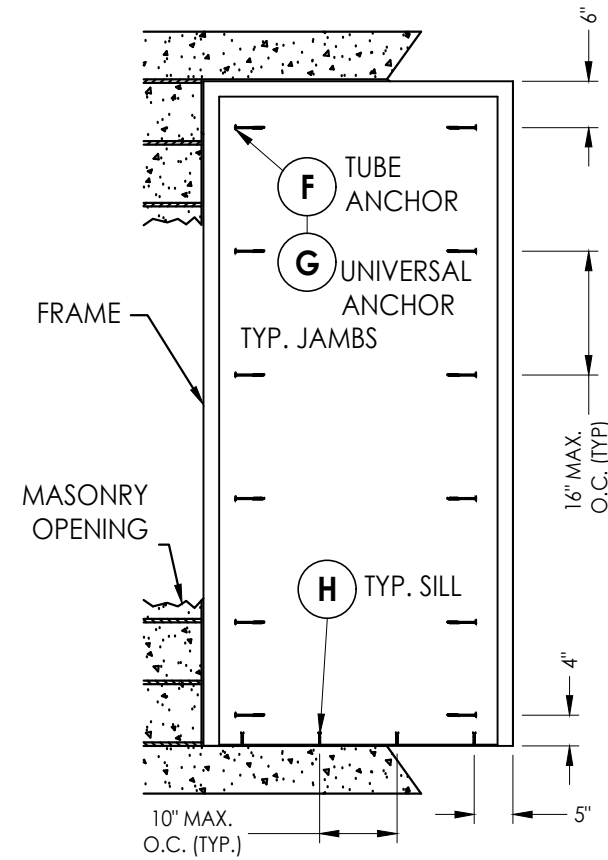
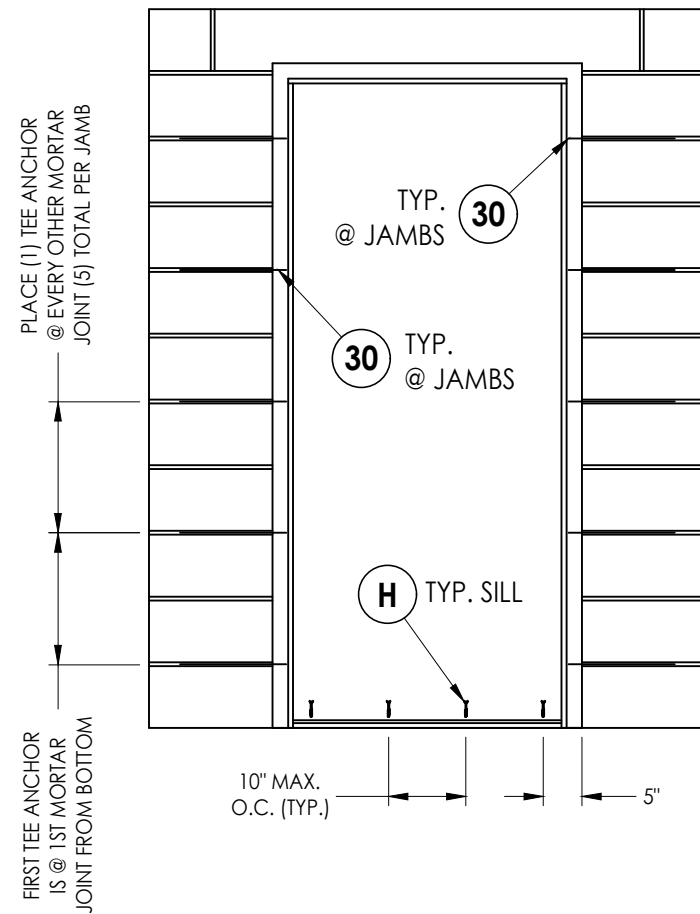
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PRODUCT:		PREMIER PRODUCTS, INC.		PART OR ASSEMBLY:	
		"D" STEEL DOOR		VERTICAL CROSS SECTIONS	
				LFS	BY
				FBC	
1	8/21/23	UPDATE TO 8TH ED. (2023)		NO.	DATE
REVISIONS					
DATE: 11/10/22					
SCALE: N.T.S.					
DWG. BY: LFS					
CHK. BY: RW					
DRAWING NO.: FL-41788.16					
SHEET 7 OF 11					

Documents Prepared By:
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Phone No.: 813.659.9197
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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"
ITW TAPCON® XL	5/16"	1-3/4"	2-1/2"	5"
DeWALT ULTRACON®	5/16"	1-3/4"	3-1/8"	5"

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

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CHK. BY: RW

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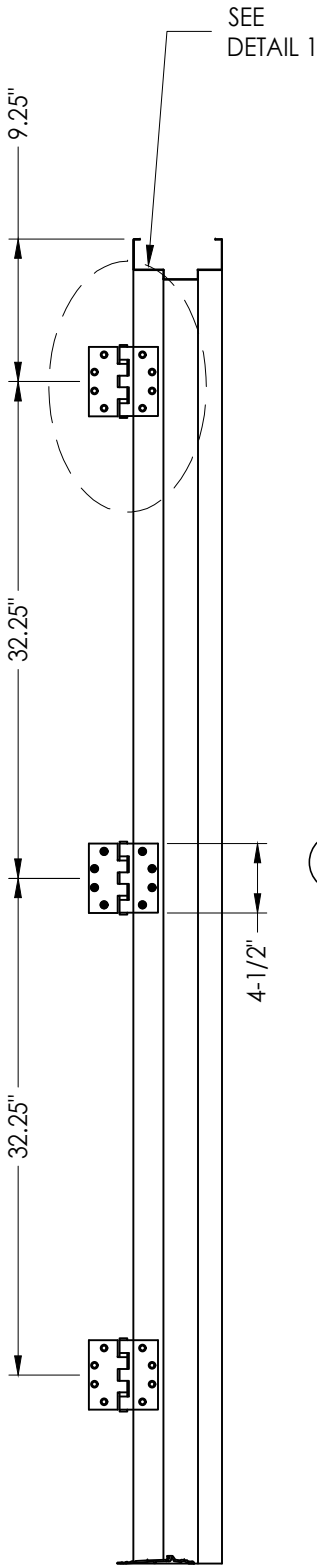
FL-41788.16

SHEET 8 OF 11

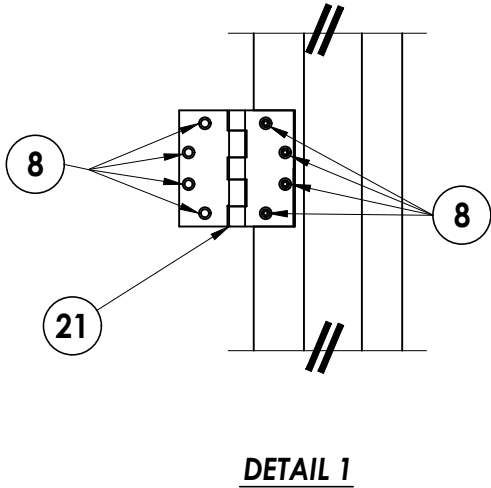
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P.O. Box 230, Valrico, FL 33595
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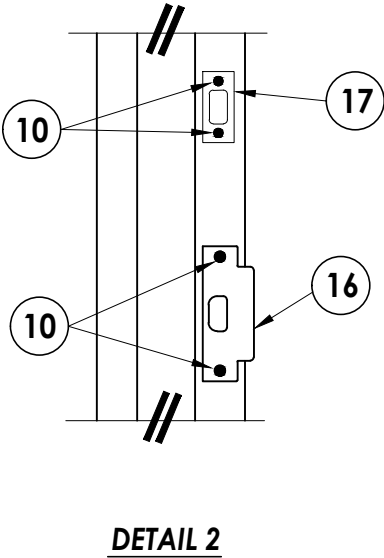
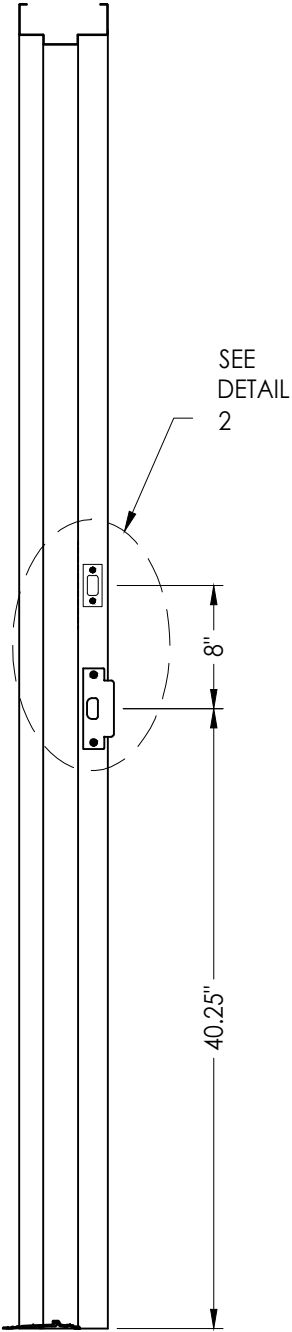
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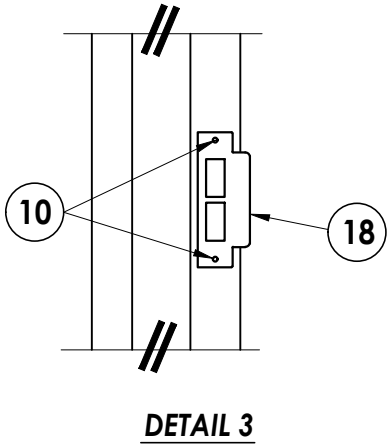
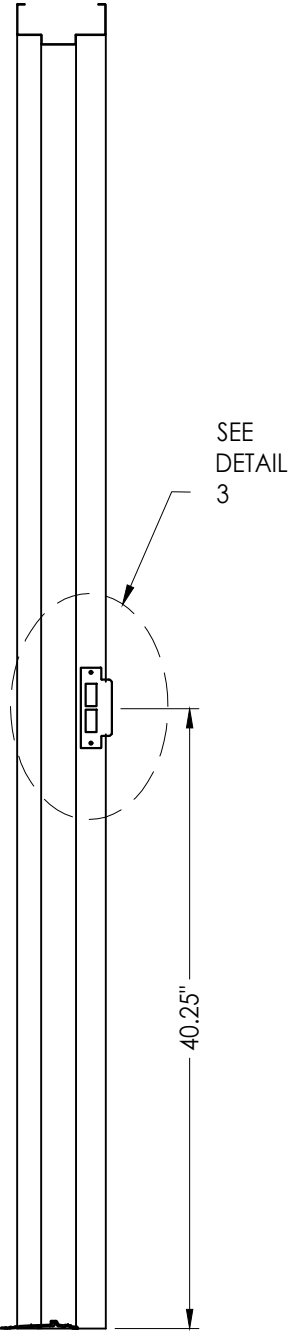
HINGE JAMB



STRIKE JAMB
ANSI STRIKE & DEADBOLT STRIKE



STRIKE JAMB
MORTISE STRIKE



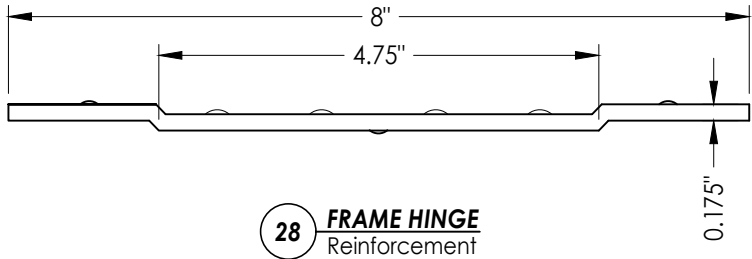
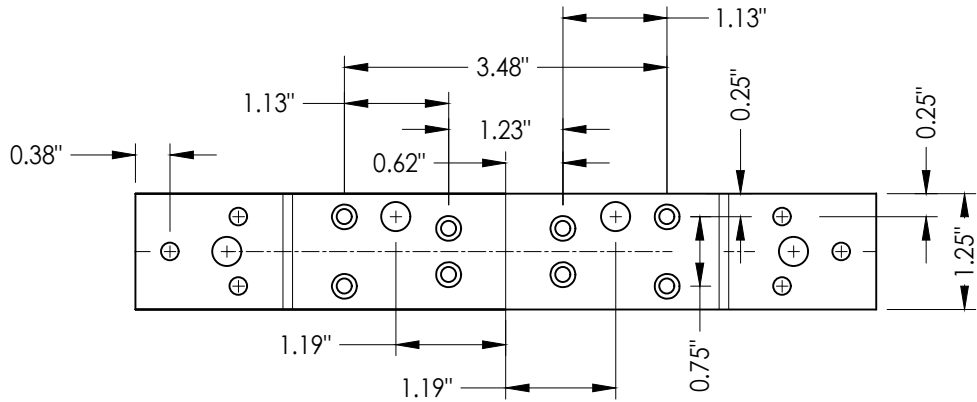
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SCALE: N.T.S.	
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CHK. BY:	RW
DRAWING NO.: FL-41788.16	
SHEET	9 OF 11

REVISIONS	
NO.	DATE
1	8/21/23
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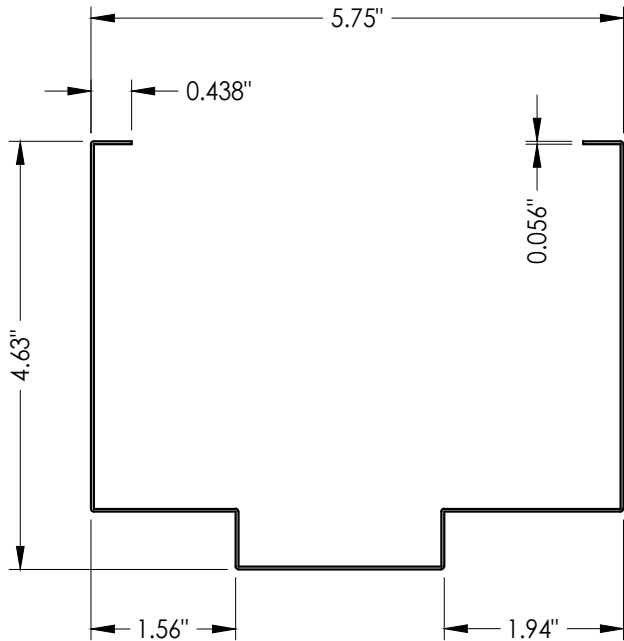
PRODUCT:	PREMIER PRODUCTS, INC. "D" STEEL DOOR
PART OR ASSEMBLY:	ANCHORING DETAILS

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409	<i>RW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813
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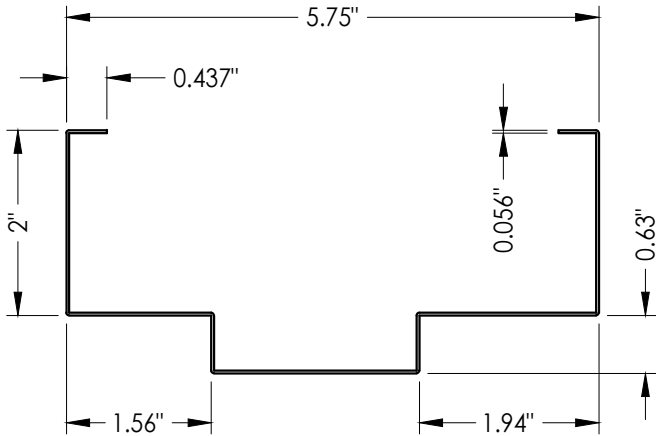
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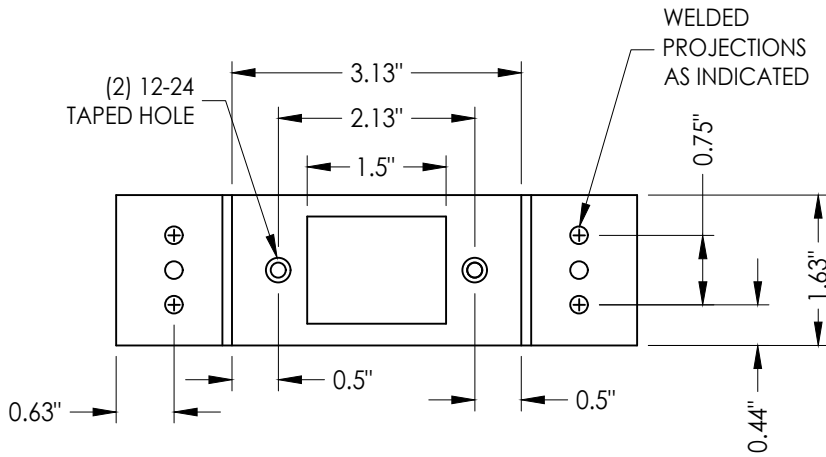
28 **FRAME HINGE**
Reinforcement



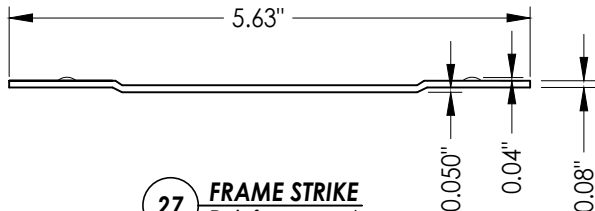
26 **FRAME**



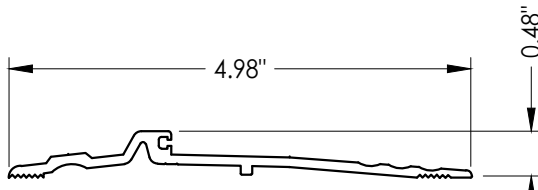
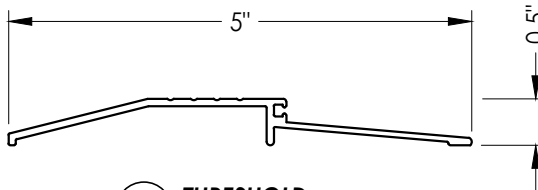
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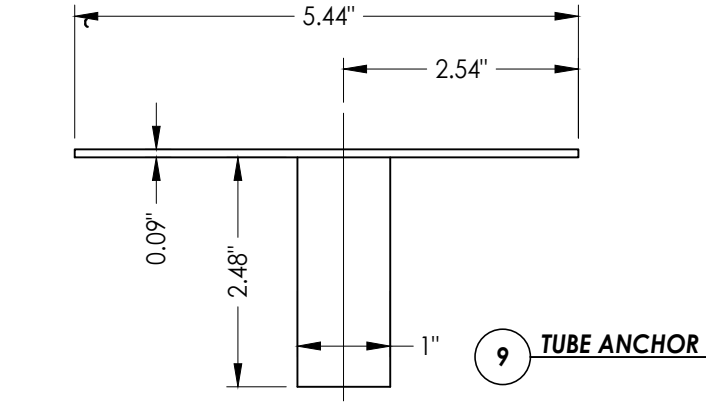
27 **FRAME STRIKE**
Reinforcement



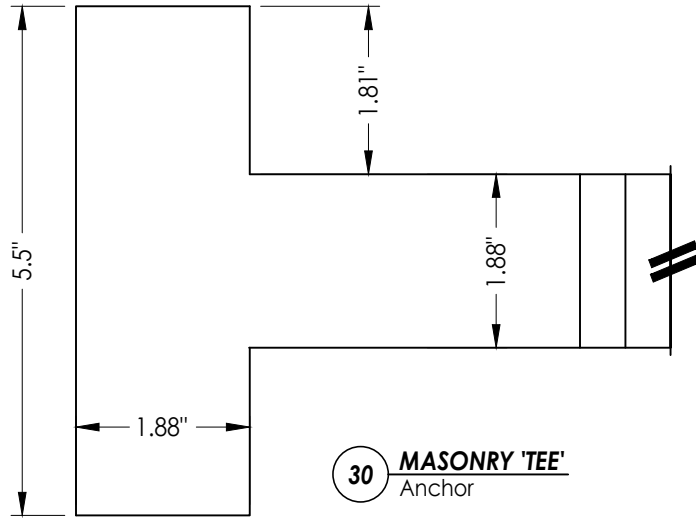
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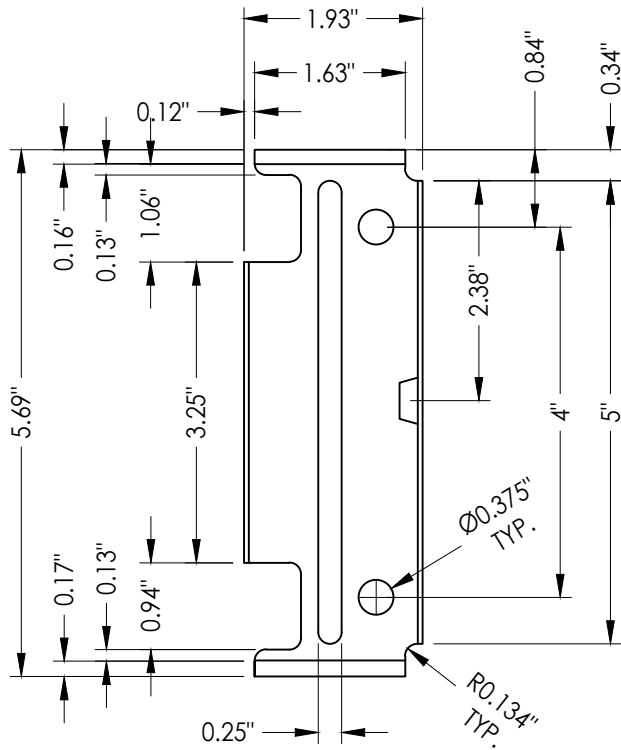
40 **THRESHOLD**



9 **TUBE ANCHOR**



30 **MASONRY 'TEE'**
Anchor



31 **UNIVERSAL WALL ANCHOR**

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PRODUCT:
PREMIER PRODUCTS, INC.
"D" STEEL DOOR

PART OR ASSEMBLY:
COMPONENTS

NO.	DATE	DESCRIPTION	BY	LFS
1	8/21/23	UPDATE TO 8TH ED. (2023) FBC	BY	LFS

DATE: 11/10/22

SCALE: N.T.S.

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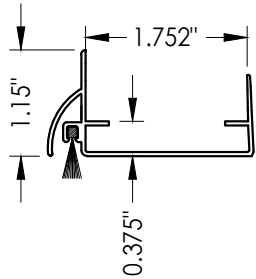
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DRAWING NO.: FL-41788.16

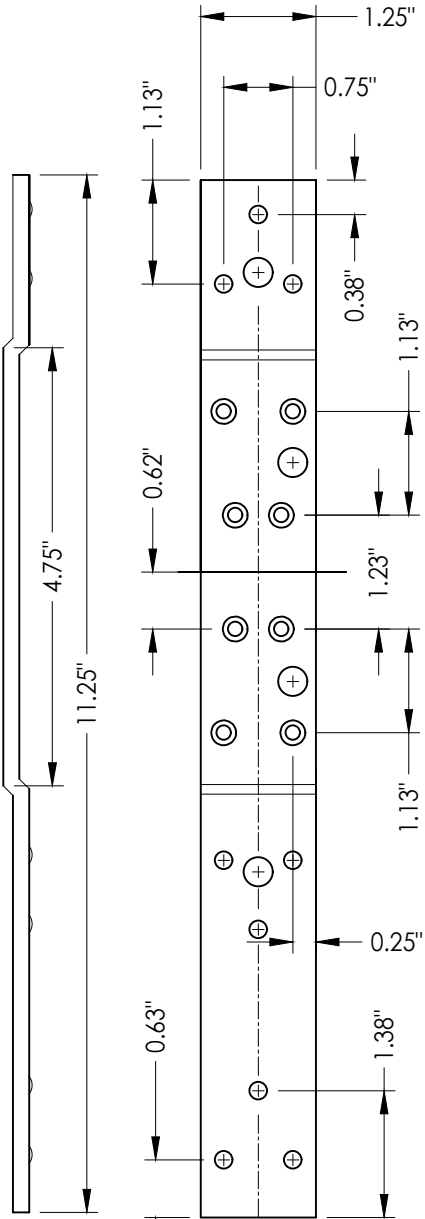
SHEET 10 OF 11

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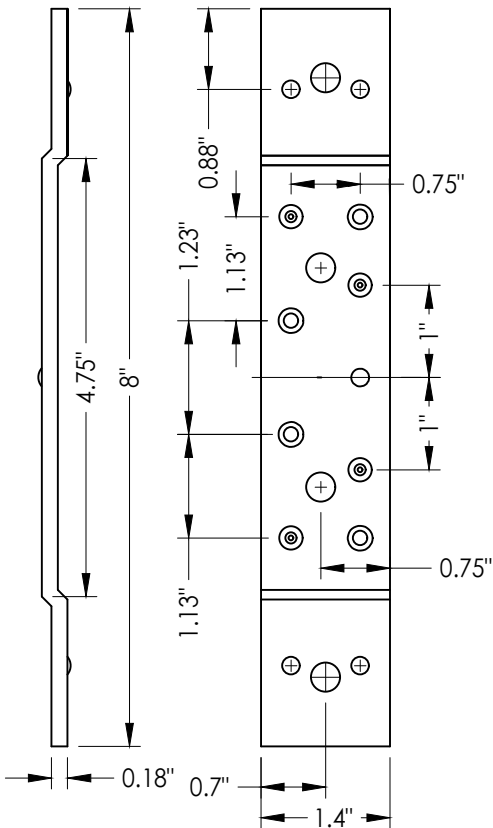
BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-	22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
			24	WEATHER STRIP (THRESHOLD)	NEOPRENE
F	5/16" x 5" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	25	FRAME 5-3/4" MIN. (0.056" THK) BY MESKER	STEEL
G	5/16" x 4" HWH DeWALT OR ITW CONCRETE SCREW	STEEL	26	FRAME 5-3/4" MIN. WITH 4" HEAD	STEEL
H	1/4" x 1-3/4" PFH DeWALT OR ITW CONCRETE SCREW	STEEL	27	STRIKE REINFORCEMENT	STEEL
1	"D" OPAQUE STEEL DOOR PANEL	-	28	FRAME HINGE REINFORCEMENT	STEEL
2	DOOR SKIN (0.055" THK. STEEL, F _y = 40,317 PSI MIN.)	STEEL	29	COLUMBIA DOOR BOTTOM SWEEP #2580	ALUMINUM
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE	30	MASONRY 'TEE' ANCHOR (MESKER PFMT5)	STEEL
4	DOOR TOP & BOTTOM CLOSER	STEEL	31	UNIVERSAL WALL ANCHOR	STEEL
5	LOCK BOX REINFORCEMENT	STEEL	40	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #896	ALUMINUM
6	CLOSER REINFORCEMENT	STEEL	41	THRESHOLD NATIONAL GUARD PRODUCTS, INC. #950	ALUMINUM
7	MORTISE BOX REINFORCEMENT	STEEL	42	THRESHOLD PEMKO #2005V	ALUMINUM
8	#12-24 x 1/2" SELF TAPPING	STEEL	45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
9	TUBE ANCHOR	STEEL	46	#6 X 3/4" PHILLIPS HEAD SMS	STEEL
10	#12-24 x 1.0" COMBINATION MACHINE / WOOD SCREW	STEEL	70	SCHLAGE LOCK SET ASSEMBLY ND53PD	STEEL
11	DOOR STILE EDGE REINFORCEMENT (D DOOR)	STEEL	71	DESIGN HARDWARE D1-S SERIES DEADBOLT	STEEL
14	COLUMBIA ADA THRESHOLD #6510	ALUMINUM	72	DESIGN HARDWARE "Z" SERIES ENTRY	STEEL
16	ANSI LATCH STRIKE	STEEL	73	86E MORTISE LOCK- ONITY CT SERIES	STEEL
17	DEADBOLT STRIKE	STEEL	74	86E MORTISE LOCK- ONITY HT SERIES	STEEL
18	ANSI MORTISE STRIKE	STEEL	75	86E MORTISE LOCK- ONITY ADVANCE SERIES	STEEL
20	WEATHER-STRIP	NEOPRENE	76	DESIGN HARDWARE D2-S SERIES DEADBOLT	STEEL
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL	77	DESIGN HARDWARE "X" SERIES ENTRY	STEEL



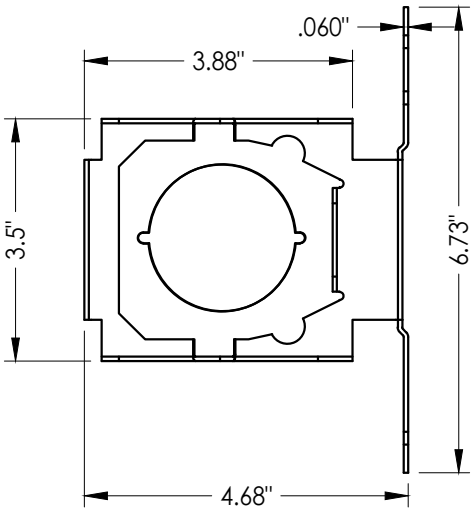
45 DOOR SWEEP



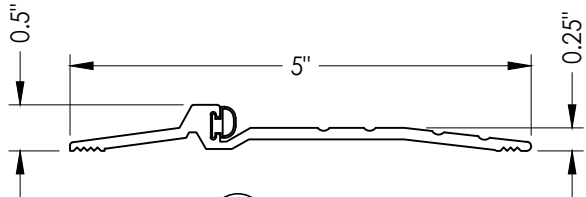
22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge



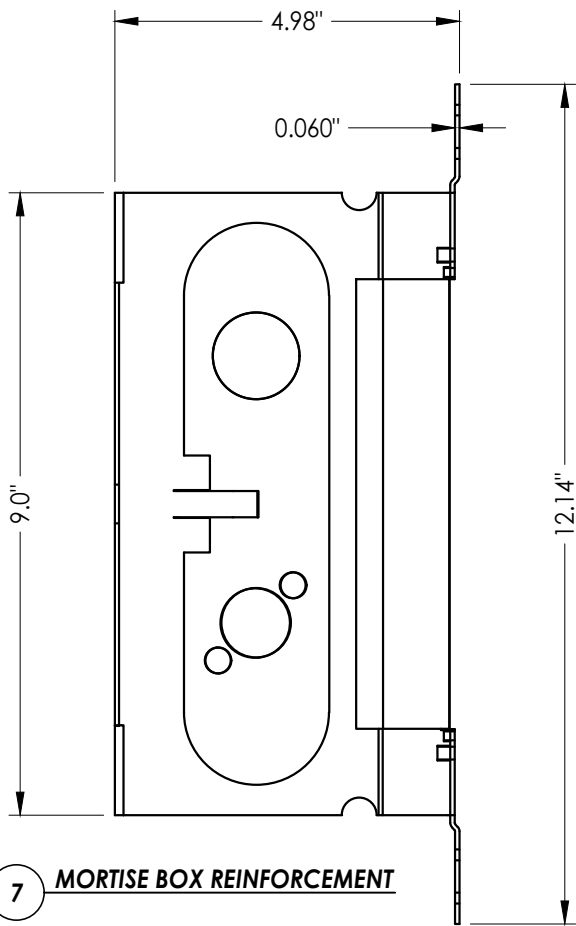
23 STANDARD (SHORT) DOOR HINGE
Reinforcement middle and bottom hinge



5 LOCK BOX REINFORCEMENT



42 THRESHOLD



7 MORTISE BOX REINFORCEMENT

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"D" STEEL DOOR

PART OR ASSEMBLY:

BILL OF MATERIALS
& COMPONENTS

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SHEET 11 OF 11