

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

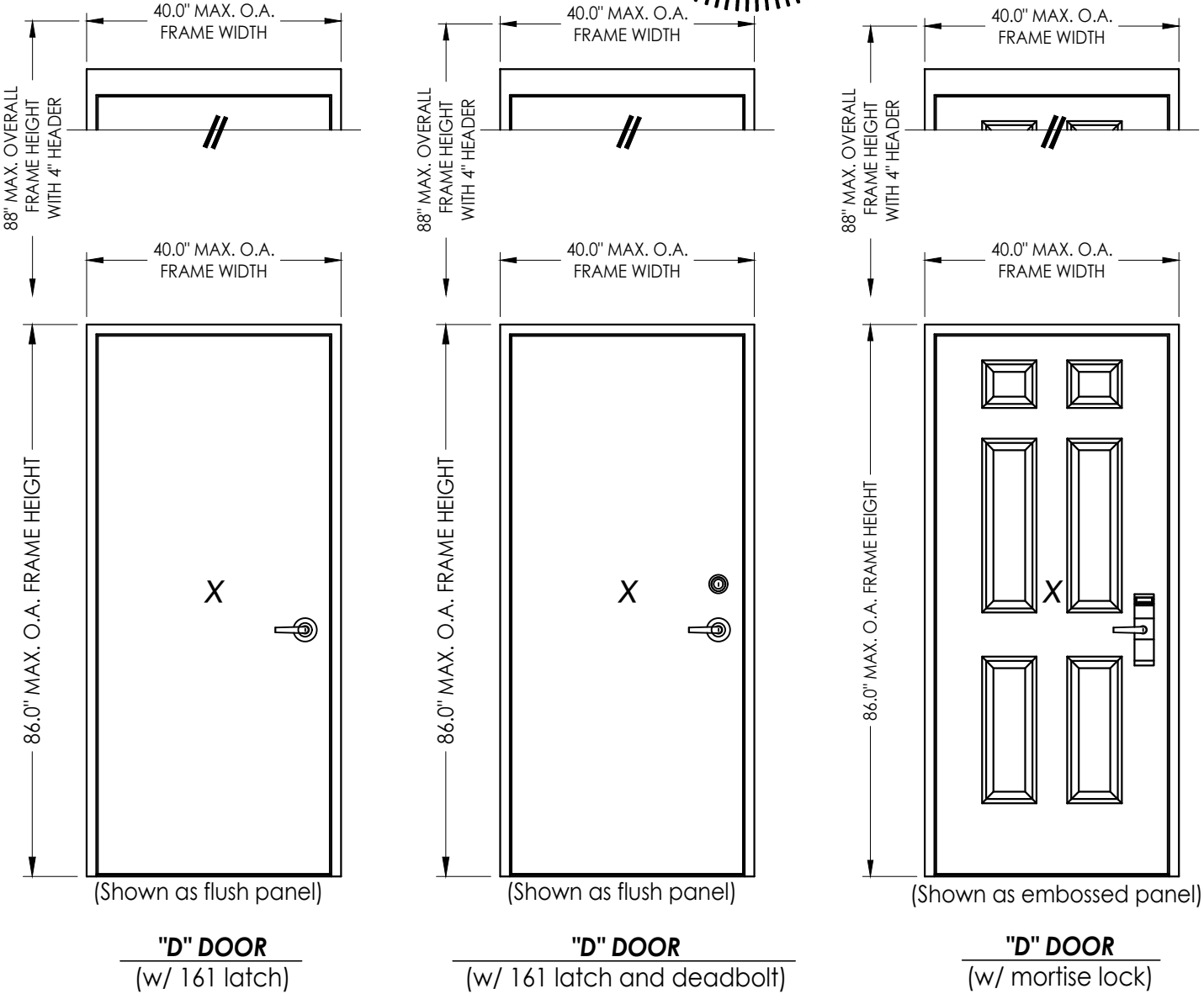


"D" SERIES
COMMERCIAL STEEL DOOR
OUTSWING
"IMPACT"

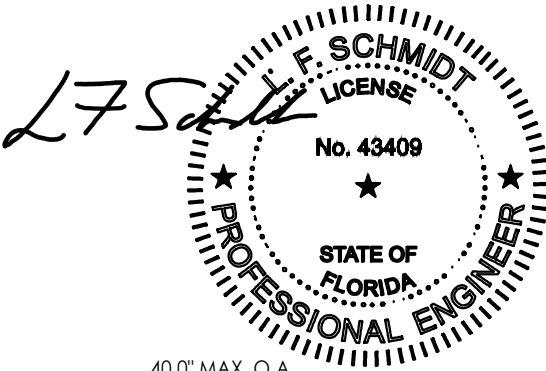
GENERAL NOTES

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. Outswing configurations using high water dam threshold item #78 meet water infiltration requirements for "HVHZ".
6. Outswing configurations using sill item #40, #41 and #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.
7. All steel shall be protected as specified in Section 2222.6 of the FBC.

TABLE OF CONTENTS	
SHEET #	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel sections 161 lock prep
3	Door panel sections 86E mortise lock prep
4	Horizontal cross sections
5	Horizontal cross sections
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	-70.0
40.0\" x 86.0\"	86E MORTISE LOCK (ONITY)	+60.0	-60.0



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

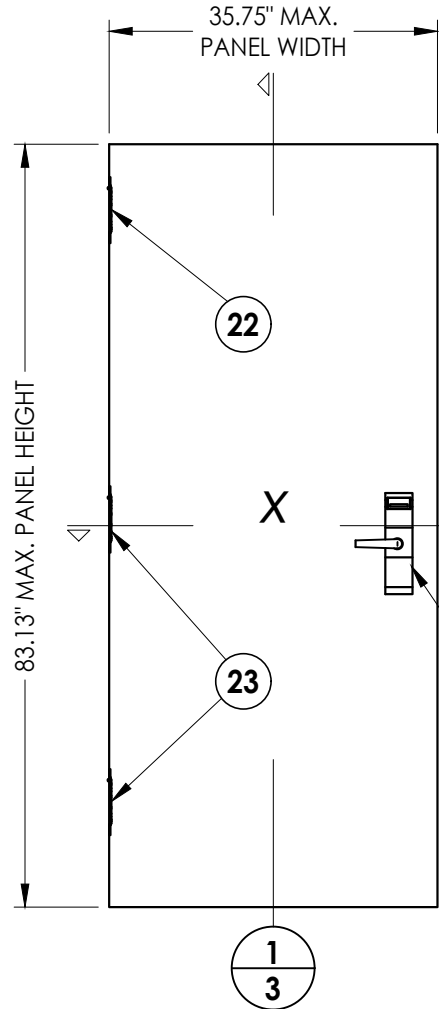
PRODUCT:
PREMIER PRODUCTS, INC.
"D" STEEL DOOR

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

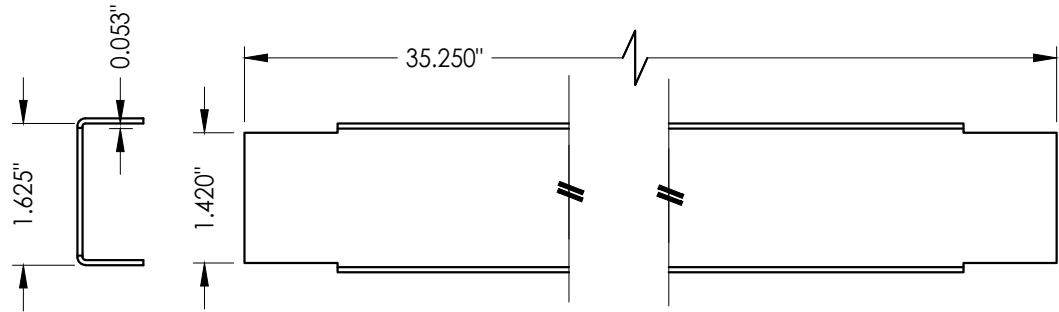
NO.	DATE	REVISIONS	
		BY	LFS
1	8/21/23	UPDATE TO 8TH ED. (2023)	FBC

DATE: 11/10/22
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-41788.17
SHEET 1 OF 11

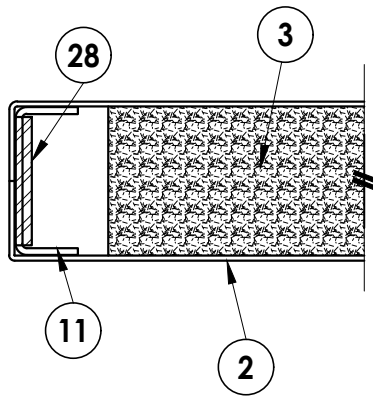
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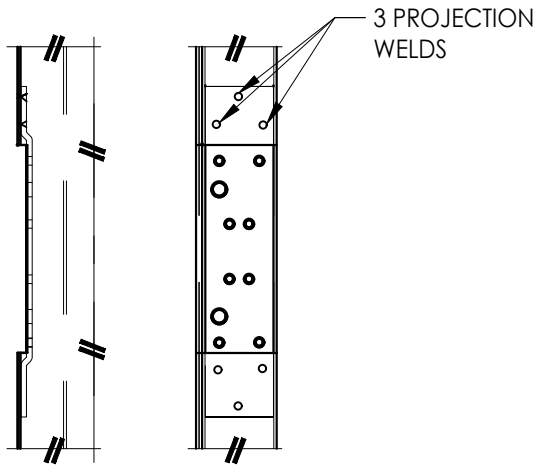
1 "D" OPAQUE STEEL DOOR PANEL



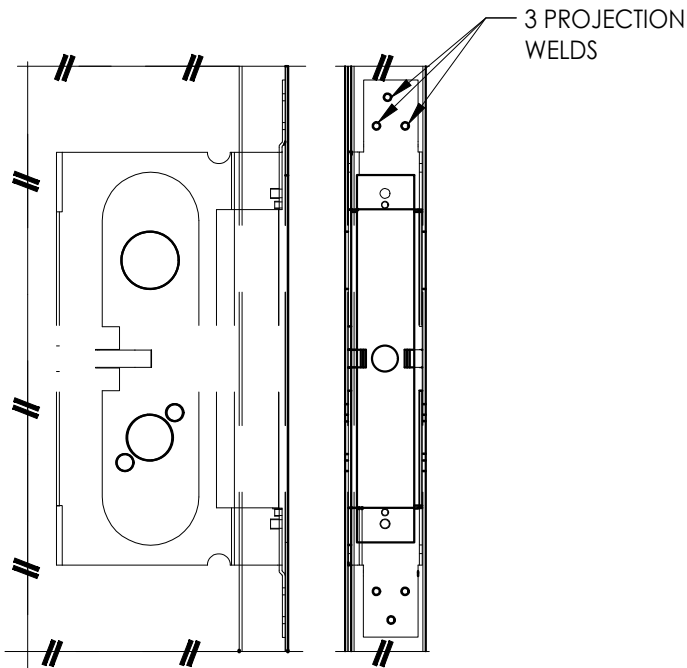
4 DOOR TOP & BOTTOM CLOSER



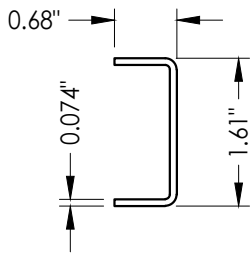
2/3 HORIZONTAL CROSS SECTION
Door panel



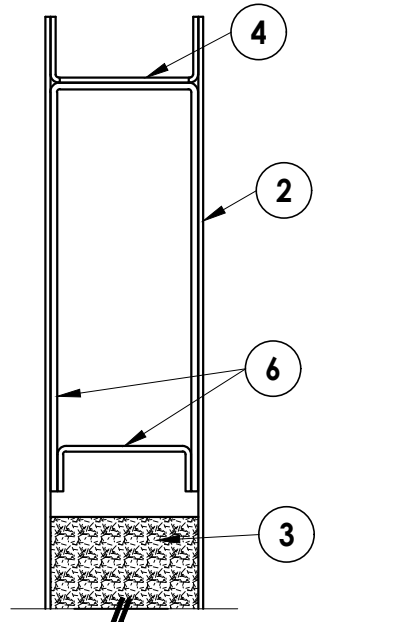
23 DOOR HINGE REINFORCEMENT



7 MORTISE BOX REINFORCEMENT



11 DOOR STILE EDGE
Reinforcement



1/3 VERTICAL CROSS SECTION
Door panel

DATE:	11/10/22
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CHK. BY:	RW
DRAWING NO.:	FL-41788.17
SHEET	3 OF 11

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

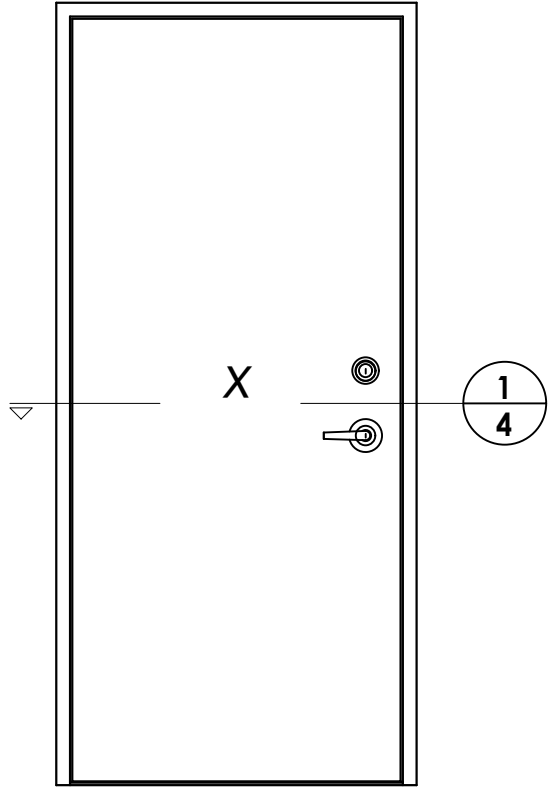
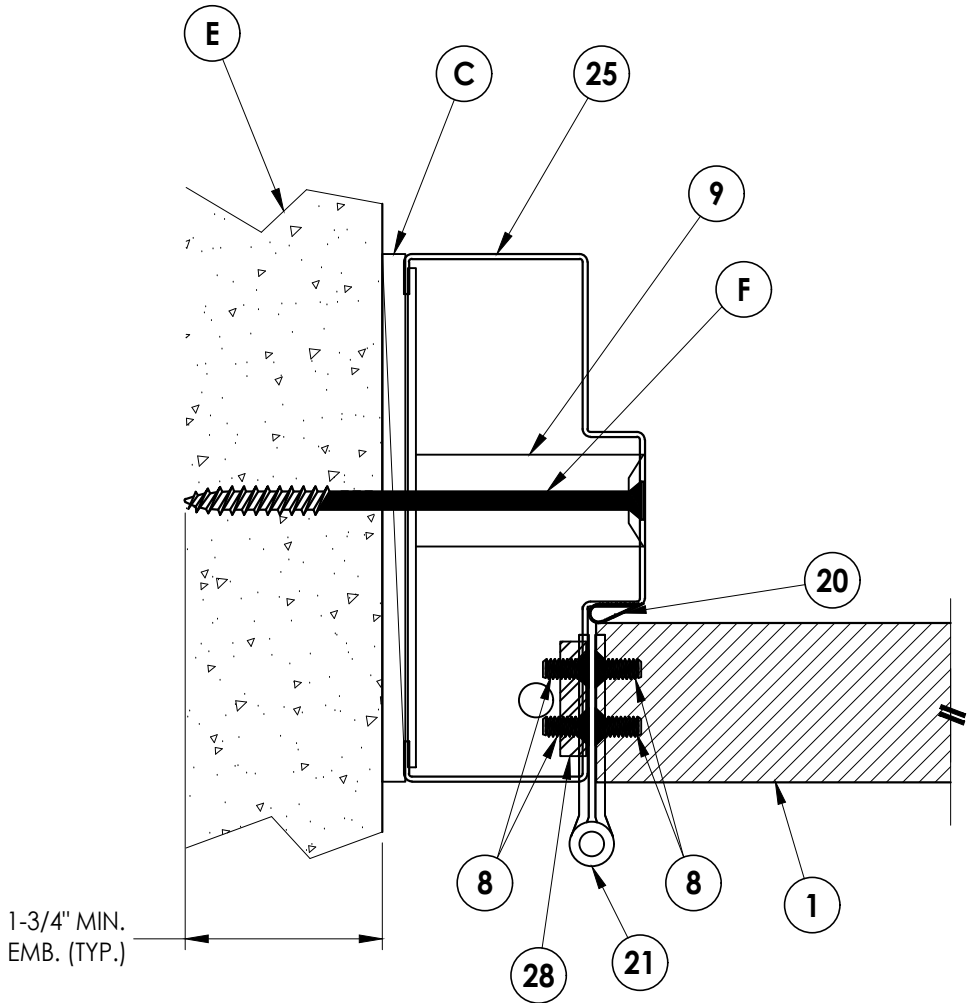
PART OR ASSEMBLY:
DOOR PANEL SECTIONS
86E MORTISE LOCK PREP

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LFS	BY	

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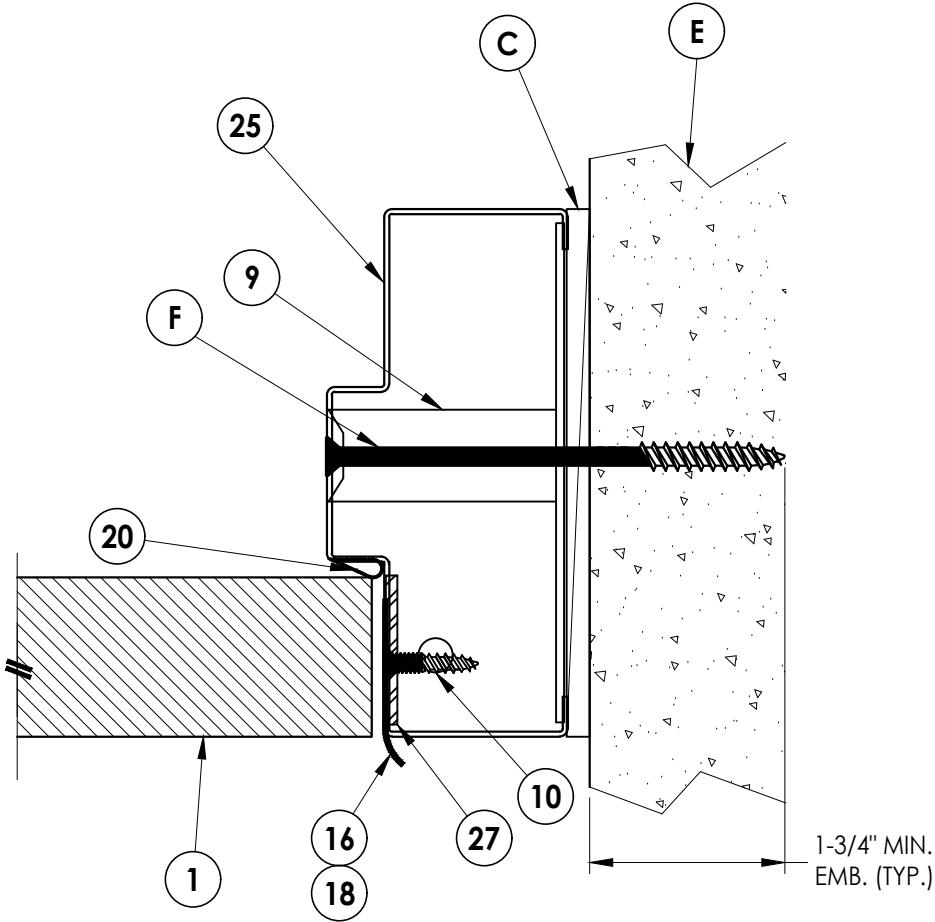
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INTERIOR

EXTERIOR

**1
4** **HORIZONTAL CROSS SECTION**



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FL-41788.17

SHEET 4 OF 11

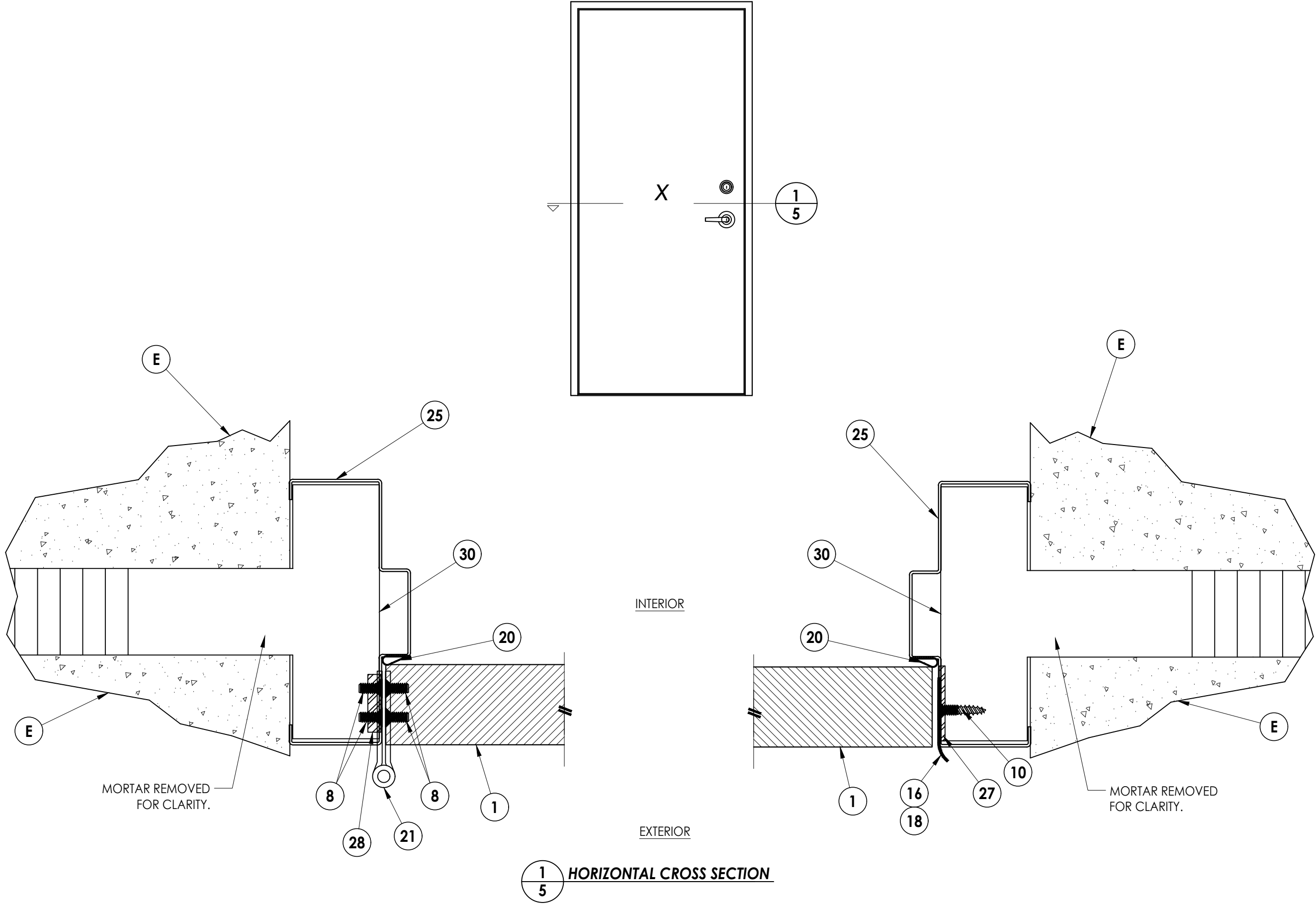
PRODUCT:
PREMIER PRODUCTS, INC.
"D" STEEL DOOR

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

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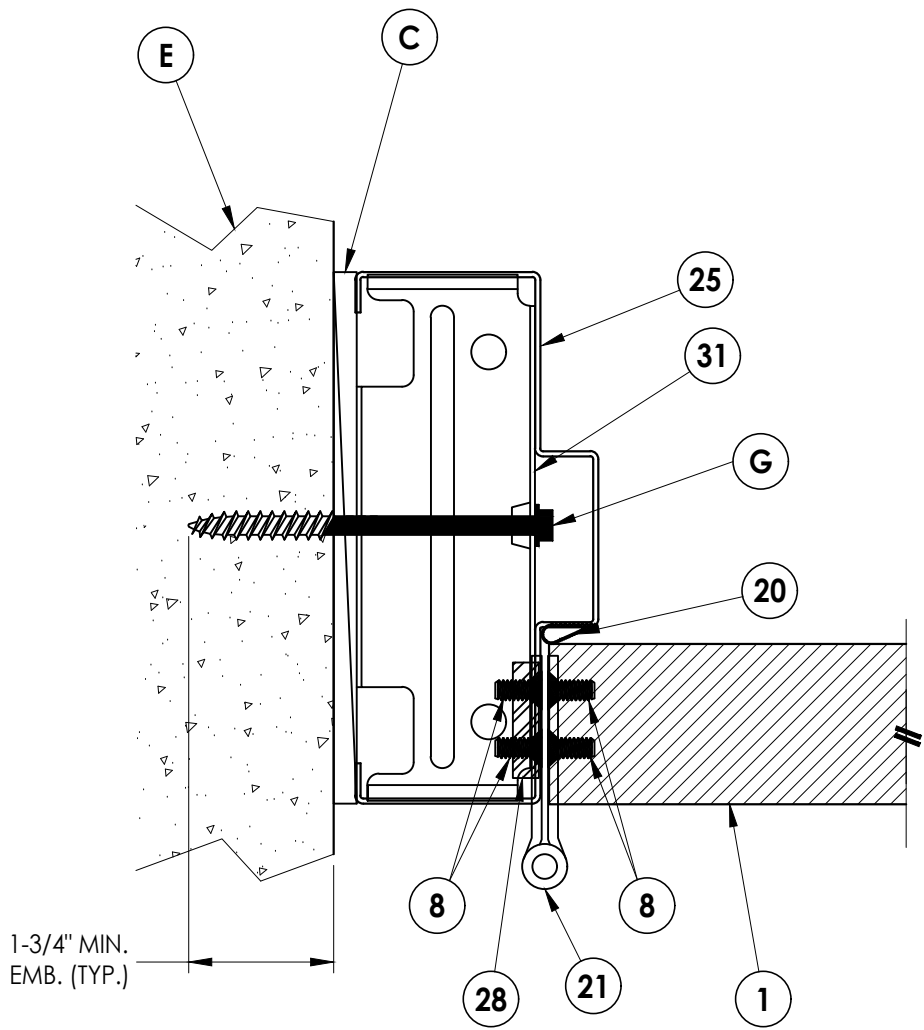
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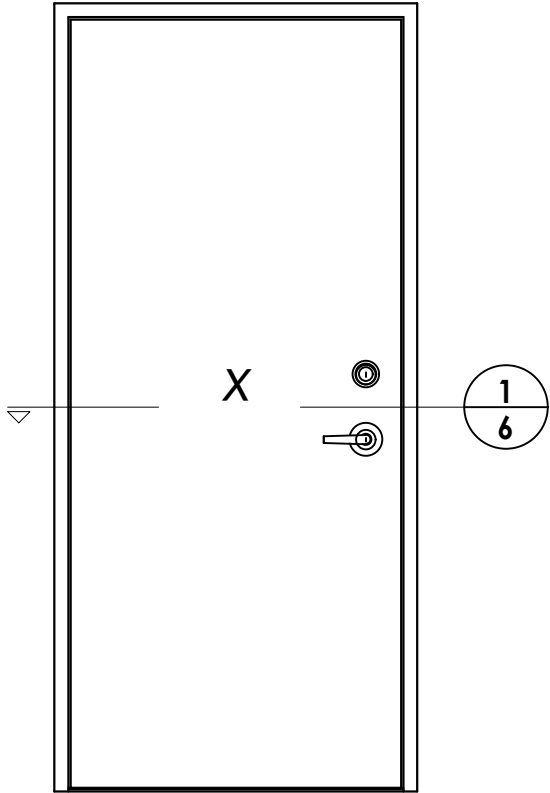
1
5 HORIZONTAL CROSS SECTION

PRODUCT:				PART OR ASSEMBLY:			
PREMIER PRODUCTS, INC.				"D" STEEL DOOR			
				HORIZONTAL CROSS SECTIONS			

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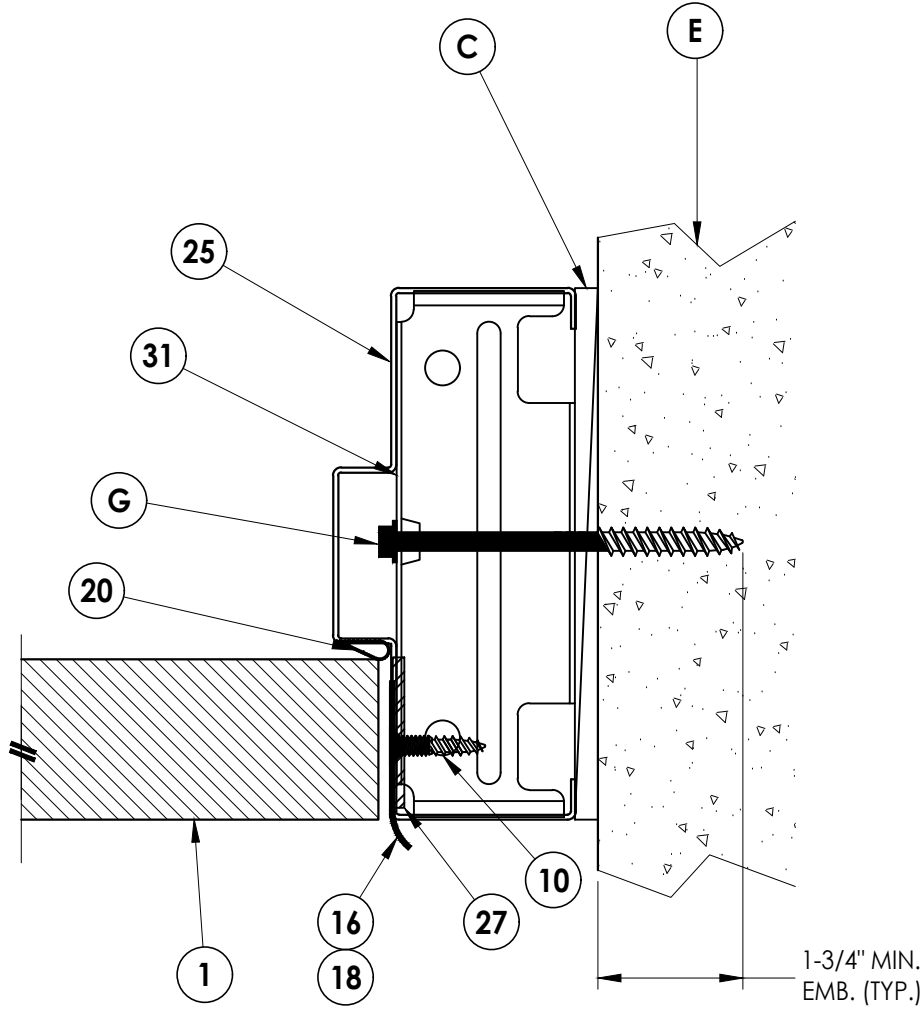


**1
6** **HORIZONTAL CROSS SECTION**



INTERIOR

EXTERIOR



DATE: 11/10/22

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DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:

FL-41788.17

SHEET 6 OF 11

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

PART OR ASSEMBLY:
HORIZONTAL CROSS SECTIONS

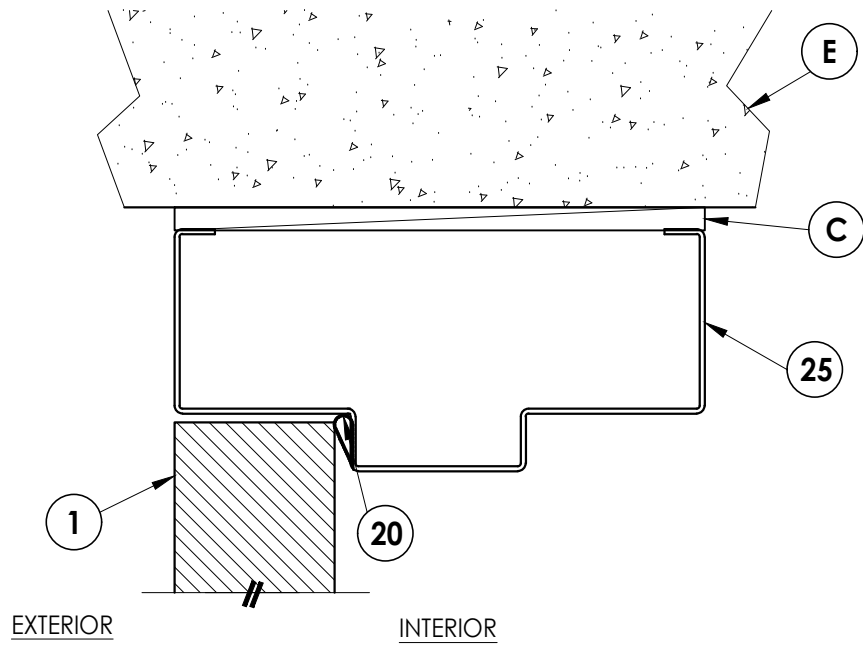
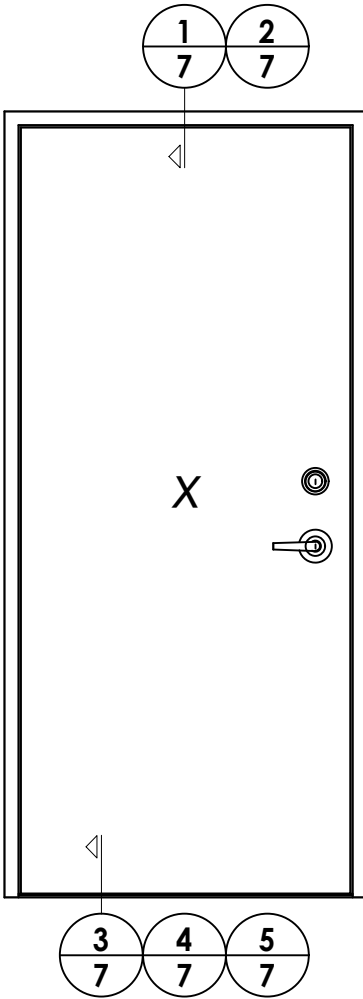
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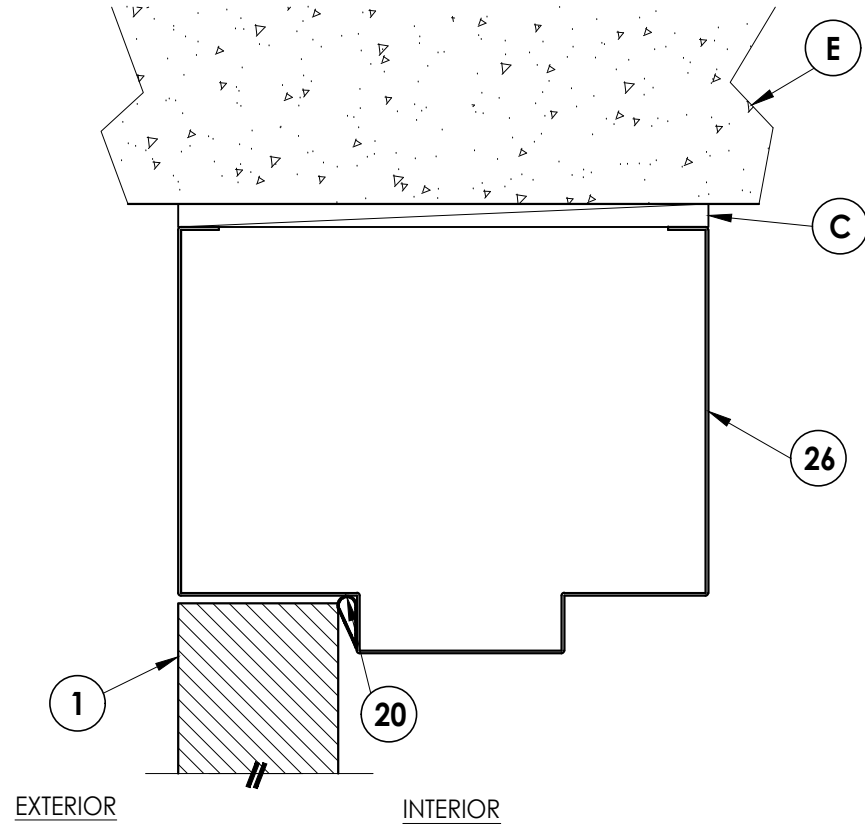
11/10/22
8/21/23
NO. DATE

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

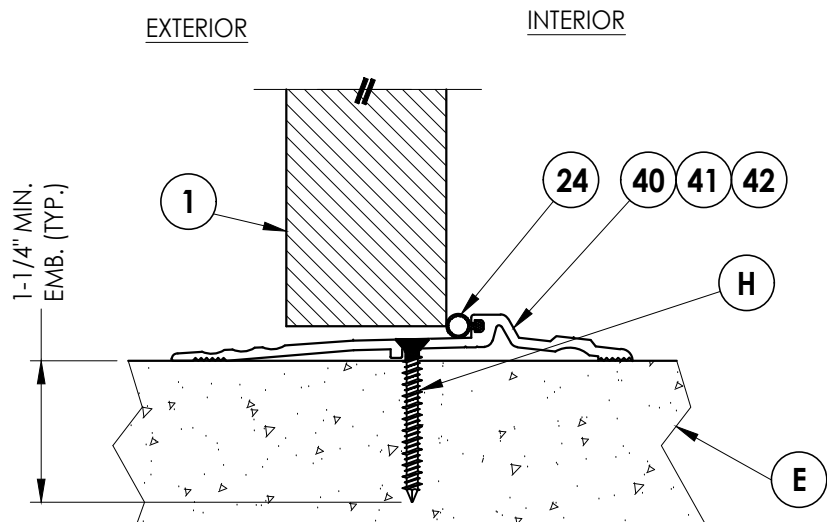
REVISIONS



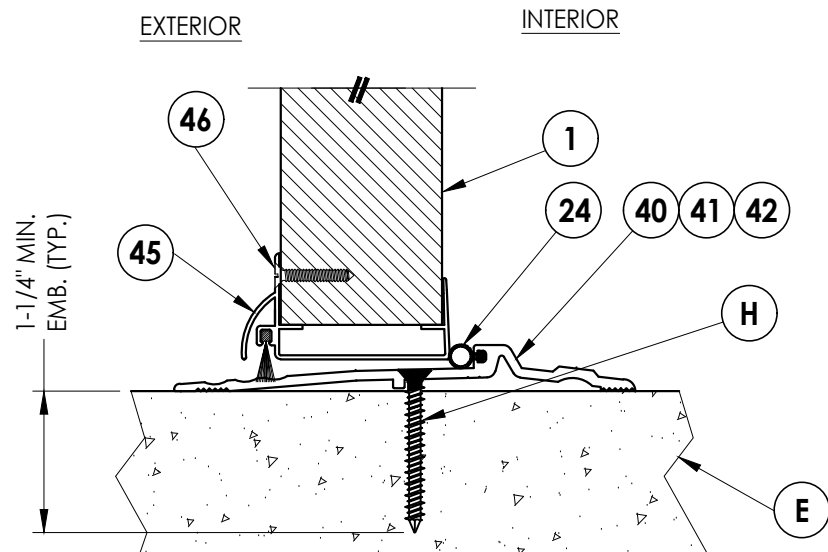
1 7 VERTICAL CROSS SECTION



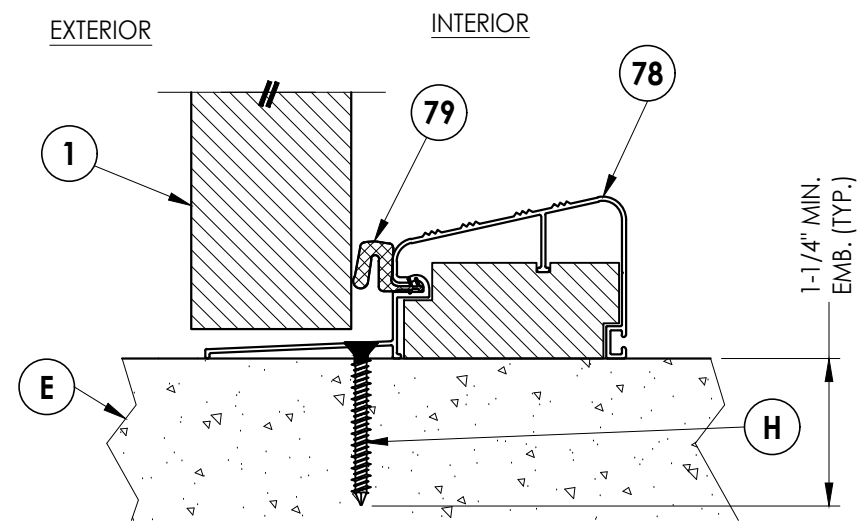
2 VERTICAL CROSS SECTION
7



3 **VERTICAL CROSS SECTION**
7 Outswing configuration
 see general notes, sheet 1
 for "HVHZ" water infiltration
 requirements



4 **VERTICAL CROSS SECTION**
7 Outswing configuration
 see general notes, sheet 1
 for "HVHZ" water infiltration
 requirements



5 **VERTICAL CROSS SECTION**
7 Outswing configuration
 see general notes, sheet 1
 for "HVHZ" water infiltration
 requirements

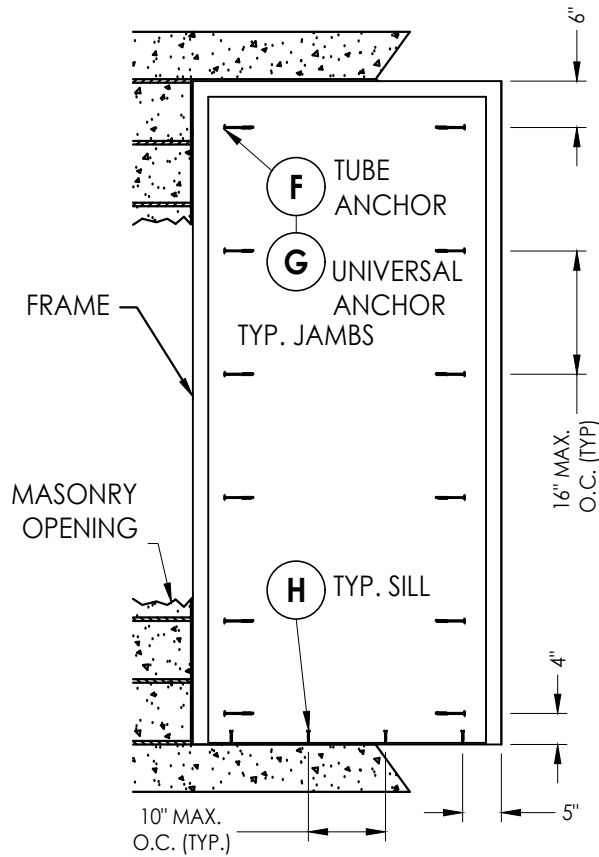
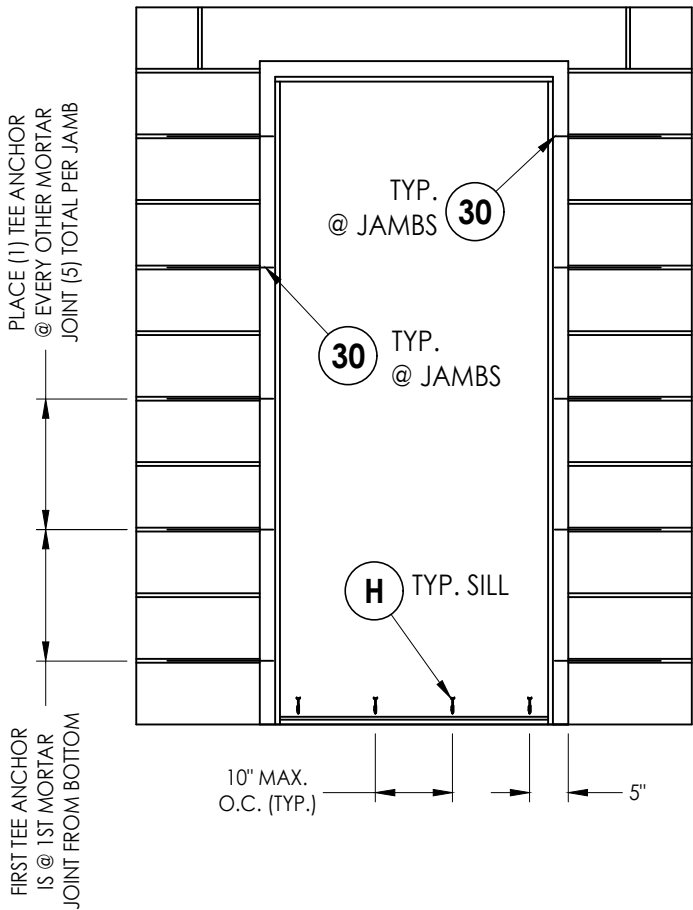
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Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

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CONCRETE ANCHOR NOTES:

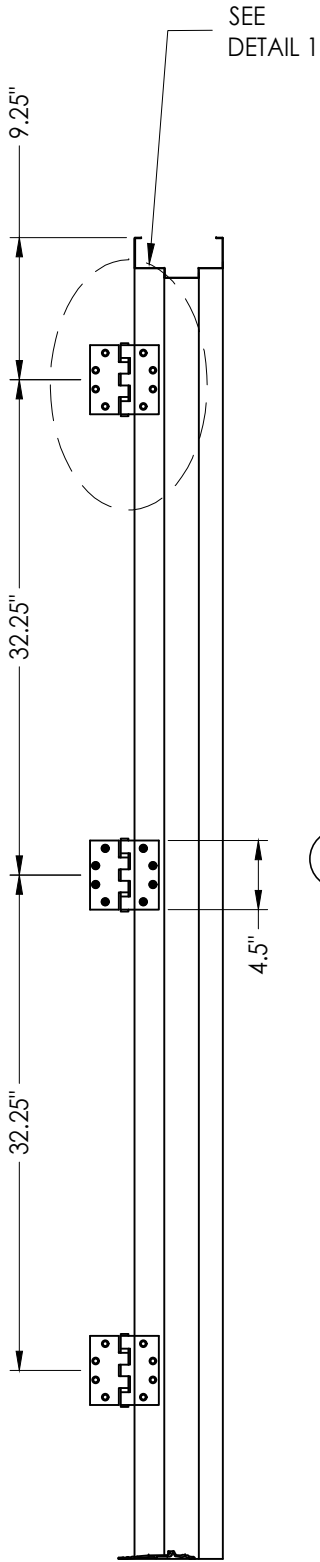
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON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

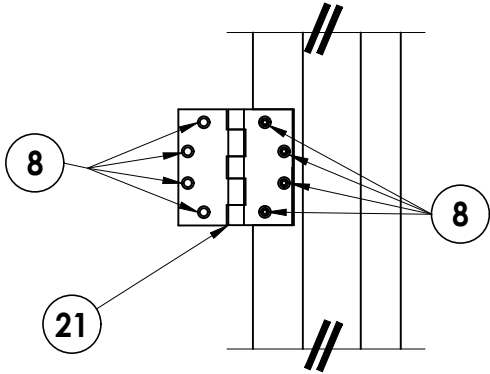
- Embedment may be through 1-1/4" face shell of hollow block.

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PRODUCT: PREMIER PRODUCTS, INC. "D" STEEL DOOR		PART OR ASSEMBLY: FRAME ANCHORING	
		REVISIONS	
		1 8/21/23 UPDATE TO 8TH ED. (2023) FBC	
		NO. DATE	
		DATE: 11/10/22	
		SCALE: N.T.S.	
		DWG. BY: LFS	
		CHK. BY: RW	
		DRAWING NO.: FL-41788.17	
		SHEET 8 OF 11	

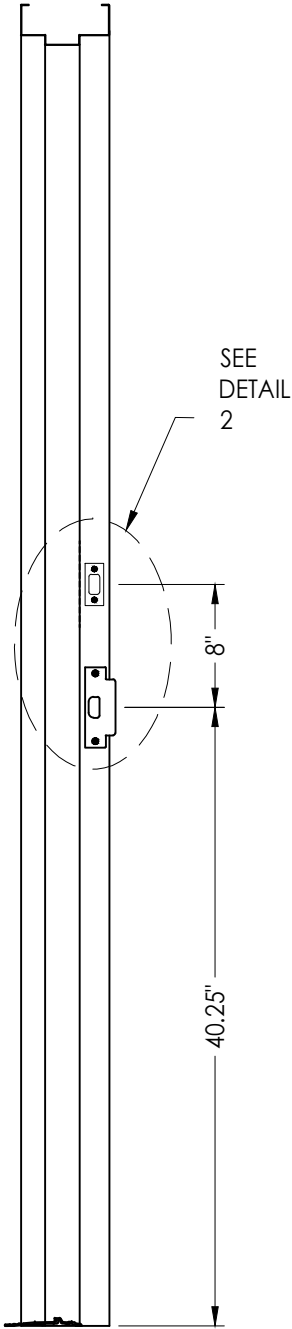
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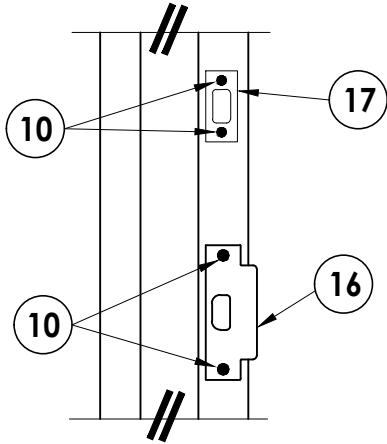
HINGE JAMB



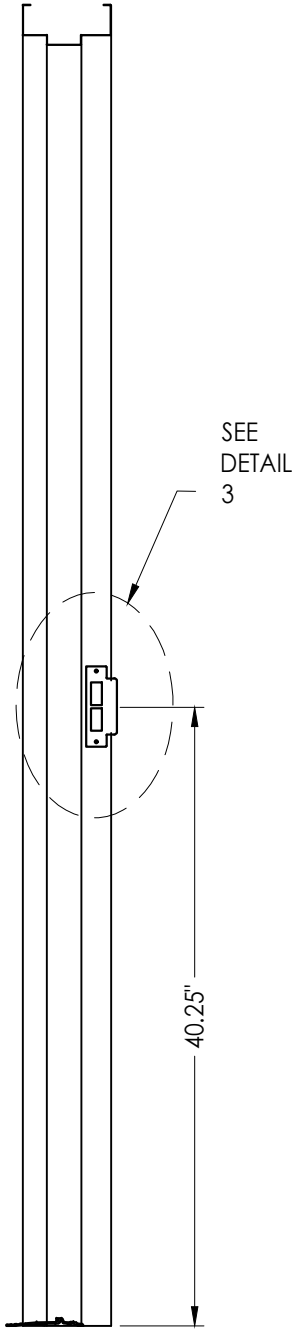
DETAIL 1



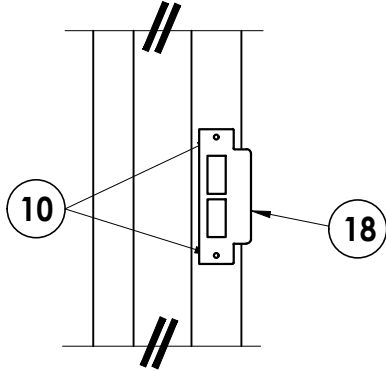
STRIKE JAMB
ANSI STRIKE & DEADBOLT STRIKE



DETAIL 2



STRIKE JAMB
MORTISE STRIKE



DETAIL 3

DATE: 11/10/22	
SCALE: N.T.S.	
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.: FL-41788.17	
SHEET	9 OF 11

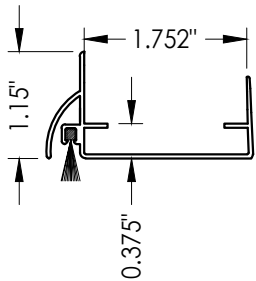
NO.	DATE	DESCRIPTION	BY
1	8/21/23	UPDATE TO 8TH ED. (2023)	LFS

PRODUCT:	PREMIER PRODUCTS, INC. "D" STEEL DOOR
	PART OR ASSEMBLY: ANCHORING DETAILS

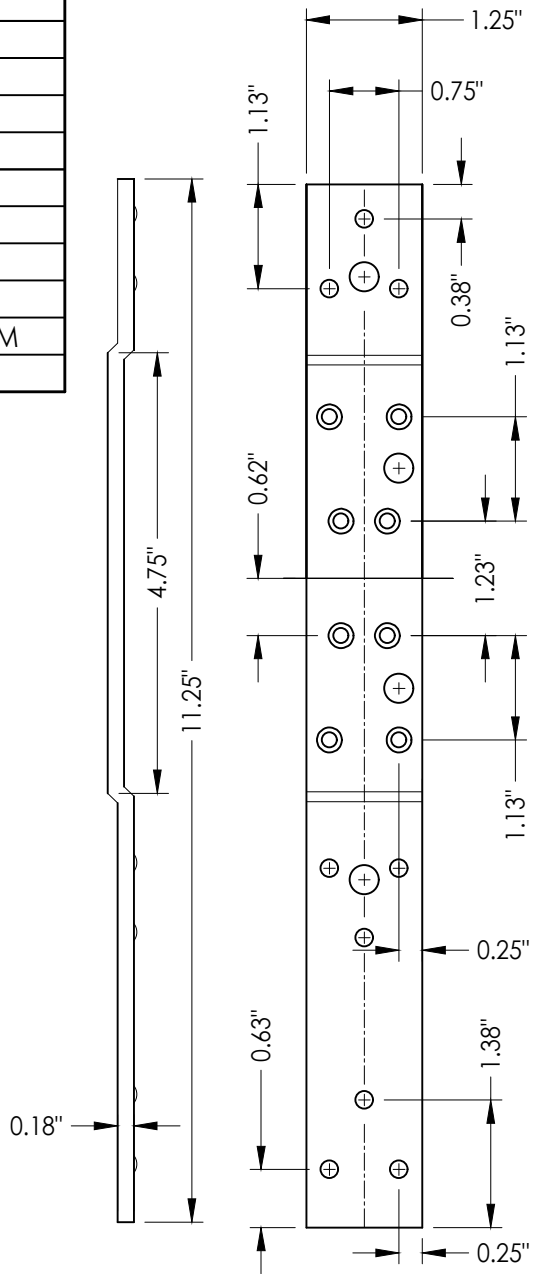
Documents Prepared By:	Lyndon F. Schmidt P.E. No. 43409
	RW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813

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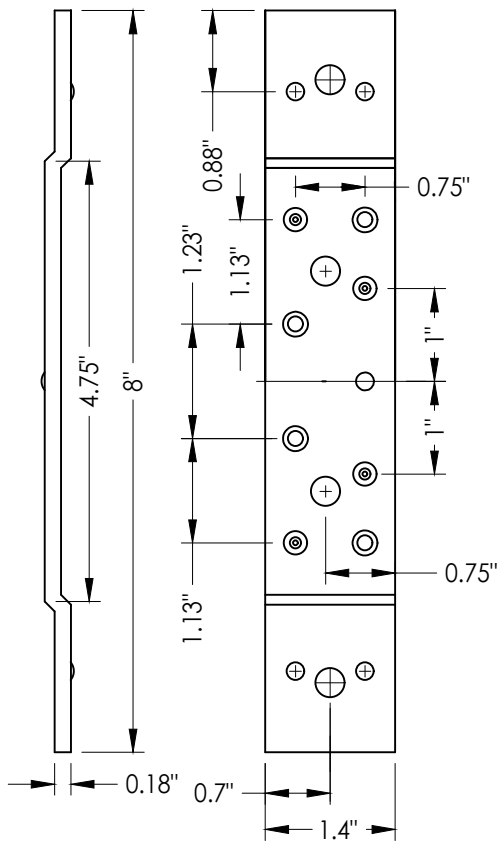
BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ITEM	DESCRIPTION	MATERIAL
C	MAX. 1/4" SHIM SPACE	-	23	STANDARD (SHORT) DOOR HINGE MIDDLE BOTTOM REINFORCEMENT	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE	24	WEATHER STRIP (THRESHOLD)	NEOPRENE
F	5/16" x 5" PFH ITW OR DeWALT PFH 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, Fy = 40,317 PSI MIN.)	STEEL	30	MASONRY 'TEE' ANCHOR (MESKER PFMT5)	STEEL
3	FOAM 1.0 PCF MIN. DENSITY	POLYSTYRENE	31	UNIVERSAL WALL ANCHOR	STEEL
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	42	THRESHOLD PEMKO #2005V	ALUMINUM
7	MORTISE BOX REINFORCEMENT	STEEL	45	95WHA DOOR SWEEP NATIONAL GUARD PRODUCTS, INC.	ALUMINUM
8	#12-24 x 1/2" SELF TAPPING	STEEL	46	#6 X 3/4" PHILLIPS HEAD 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
11	DOOR STILE EDGE REINFORCEMENT (D DOOR)	STEEL	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
22	STANDARD (LONG) DOOR HINGE TOP HINGE REINFORCEMENT	STEEL	78	OUTSWING THRESHOLD BY DLP #QOSH	ALUMINUM
			79	WEATHER-STRIP	FOAM



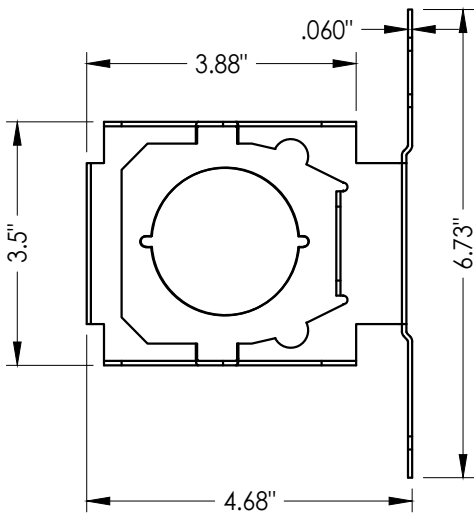
45 DOOR SWEEP



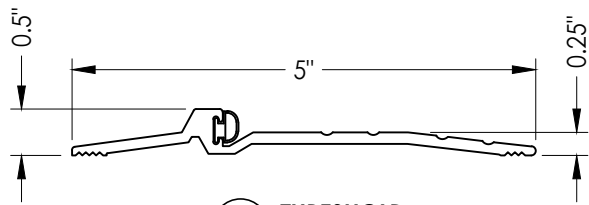
22 STANDARD (LONG) DOOR HINGE
Reinforcement top hinge



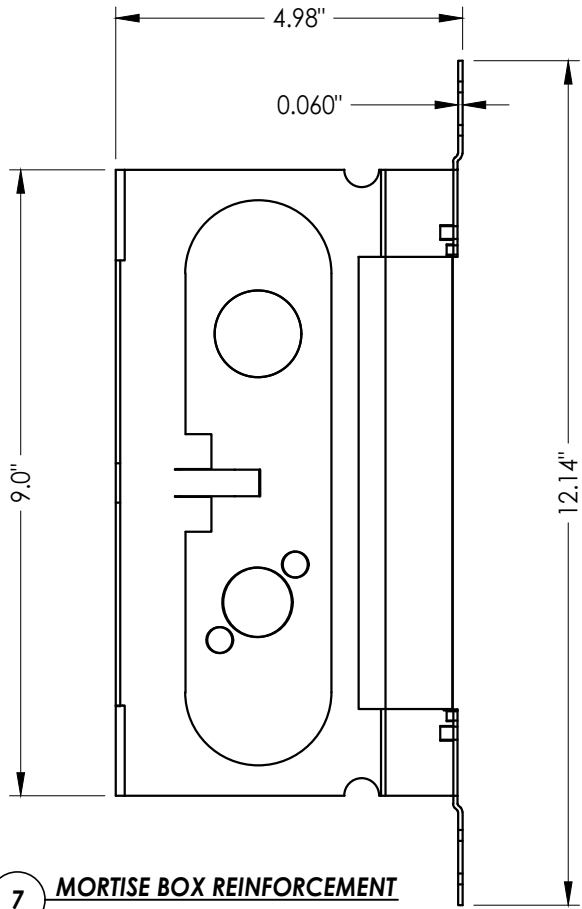
23 STANDARD (SHORT) DOOR HINGE
Reinforcement middle and bottom hinge



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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		BY

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SHEET 11 OF 11