

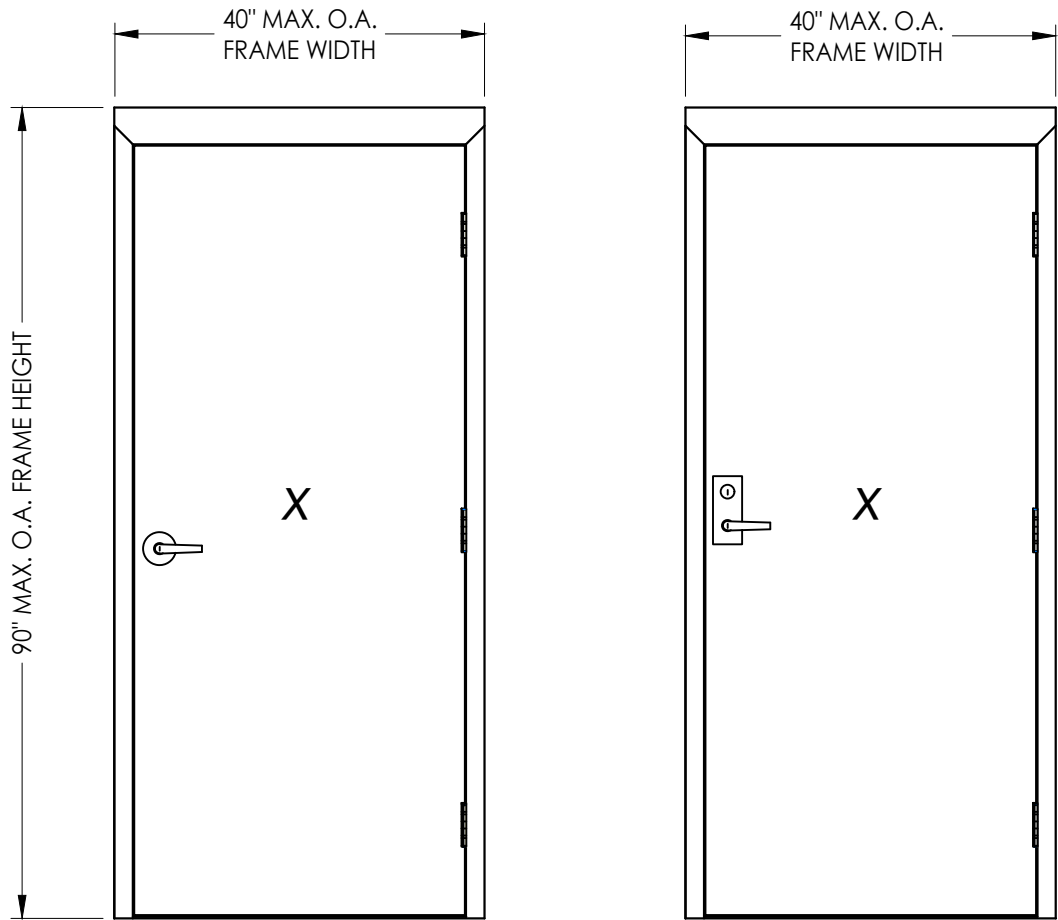


"PS" COMMERCIAL STEEL DOOR
IN swing/OUT swing
"IMPACT"

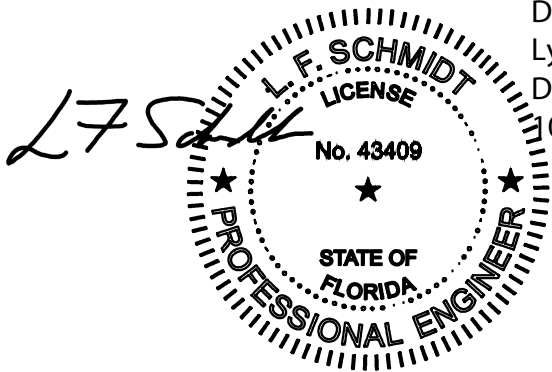
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements 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 complies with FBC Sections 1609.1.2 & R301.2.1.2 and does not require an impact resistant covering. This product meets missile level "D" and excludes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. 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 elevation, design pressures & general notes
2	Door panel details
3	Horizontal & vertical cross sections
4	Horizontal cross sections
5	Horizontal cross sections
6	Frame anchoring
7	Frame anchoring
8	Bill of materials & components



CONFIGURATION	MAX FRAME DIMENSION	DOOR	DESIGN PRESSURE (PSF) IN swing		DESIGN PRESSURE (PSF) OUT swing	
			POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
SINGLE	40.0" x 90.0"	18 GA.	+50.0	-50.0	+50.0	-50.0



Digitally signed by
Lyndon F Schmidt
Date: 2024.11.13
10:19:57 -05'00'

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

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

PRODUCT:
MPI
COMMERCIAL STEEL DOOR

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

NO.

DATE

BY

REVISIONS

DATE: 8/20/24

SCALE: N.T.S.

DWG. BY: LFS

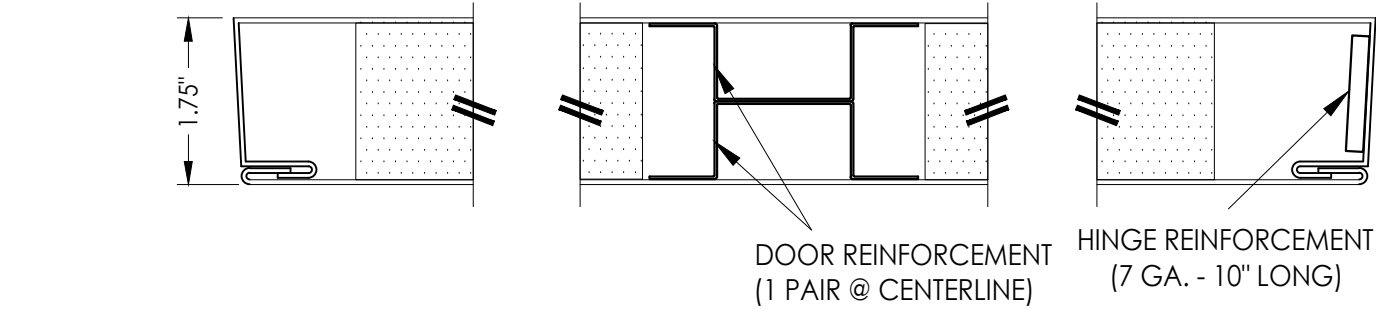
CHK. BY: RW

DRAWING NO.:
FL-40948.5

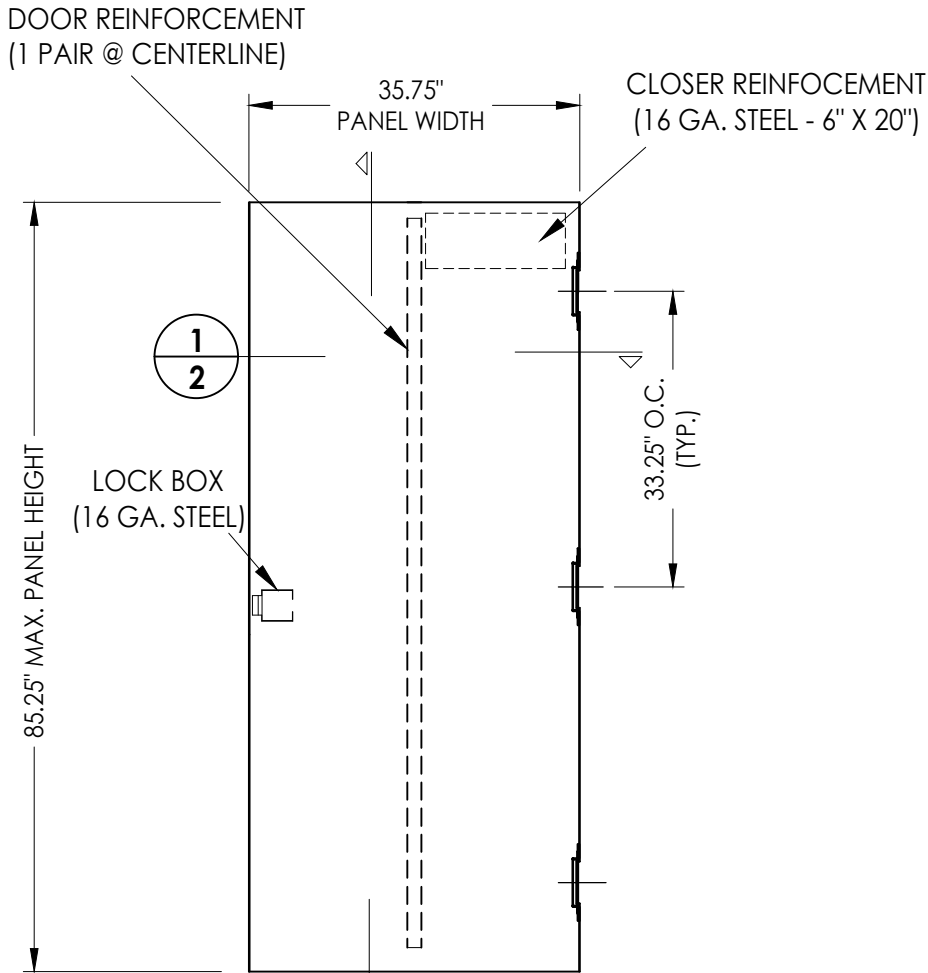
SHEET 1 OF 8

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

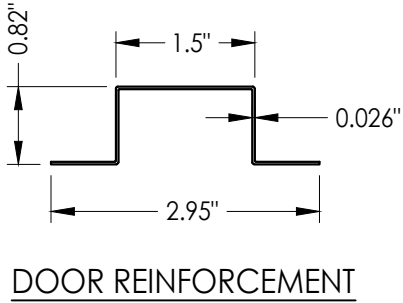
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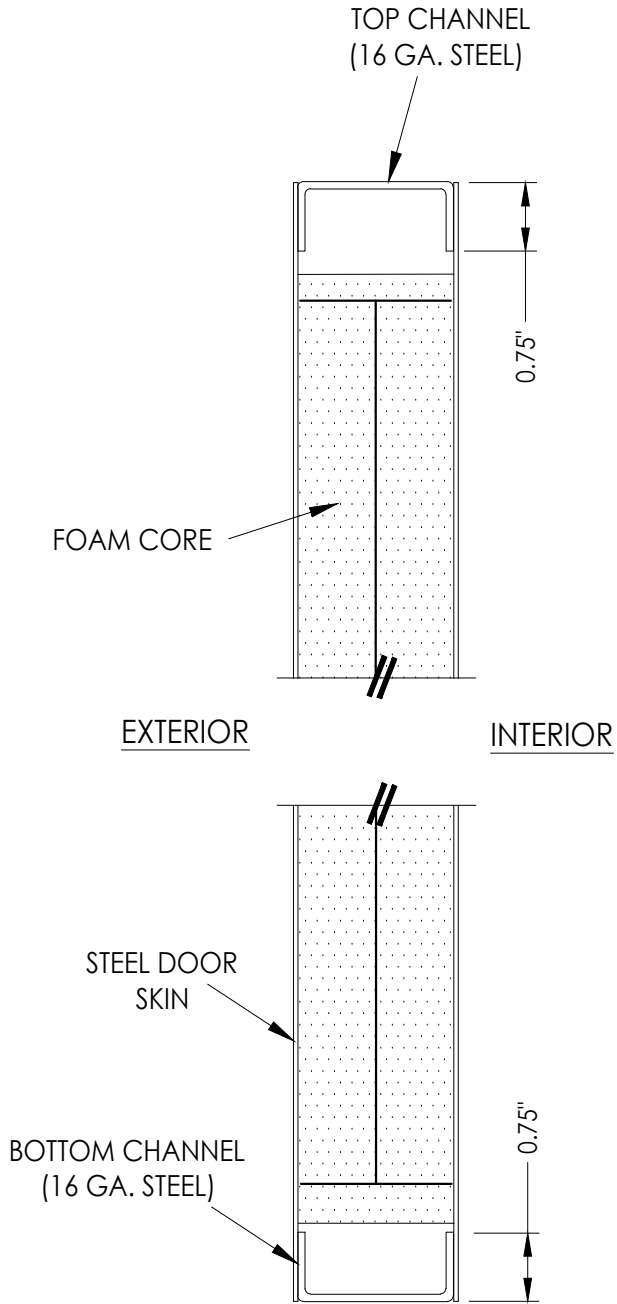
1
2 **HORIZONTAL CROSS SECTION**



2
2
40 **MPI DOOR PANEL**



DOOR REINFORCEMENT



2
2 **VERTICAL CROSS SECTION**

HARDWARE CHART	
MANUFACTURER	MODEL
PDQ	CYLINDRICAL LOCK: GT SERIES
PDQ	MORTISE LOCK/DEADBOLT : MR SERIES (MRF)

STEEL DOOR SKIN (18 GA.): MIN. 0.048" THK. (Fy = 32800 PSI MIN.)
CORE MATERIAL: POLYSTYRENE

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FBPE Registry No. 9813

PRODUCT: MPI
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

NO.	DATE	BY	REVISIONS

DATE: 8/20/24

SCALE: N.T.S.

DWG. BY: LFS

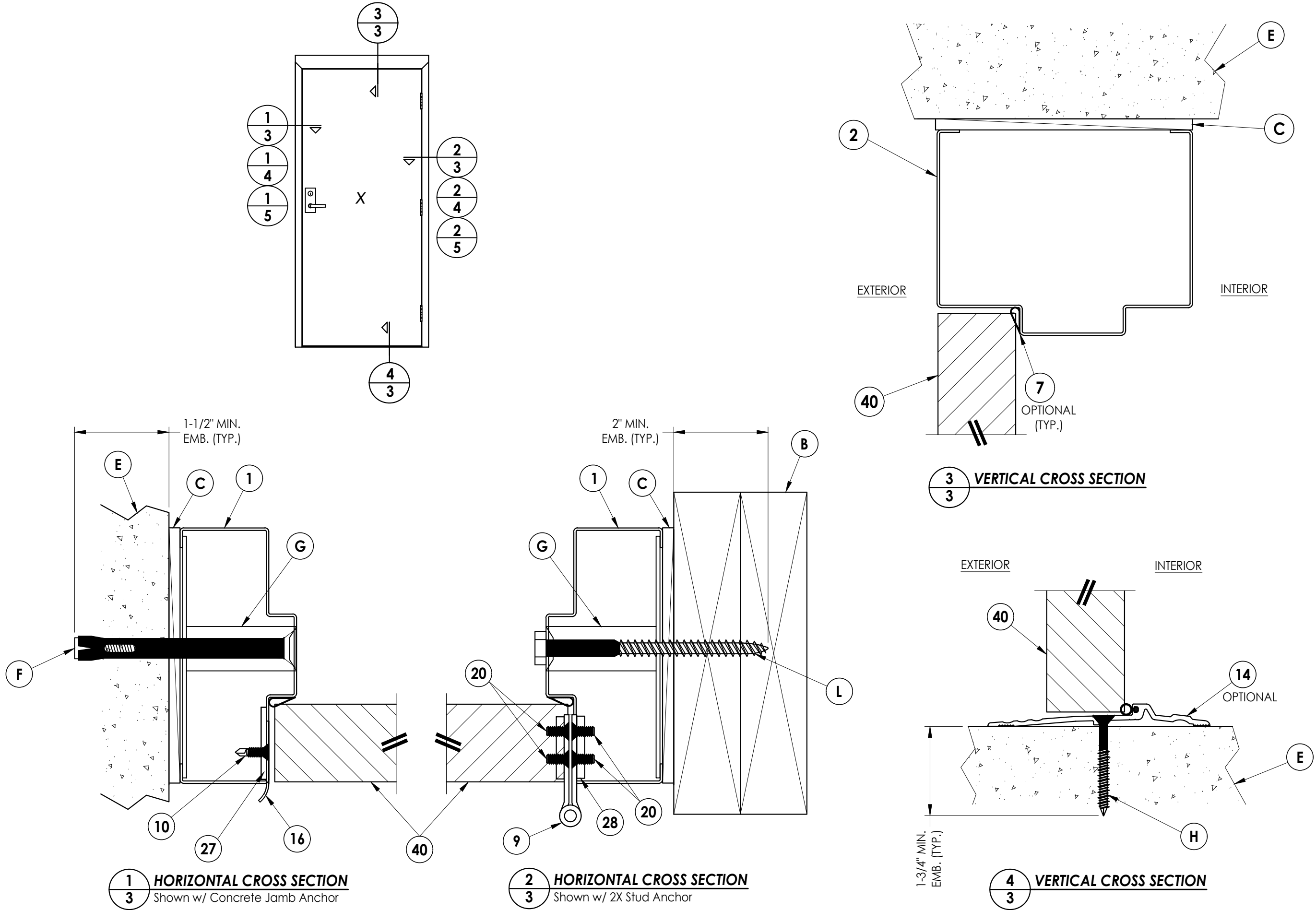
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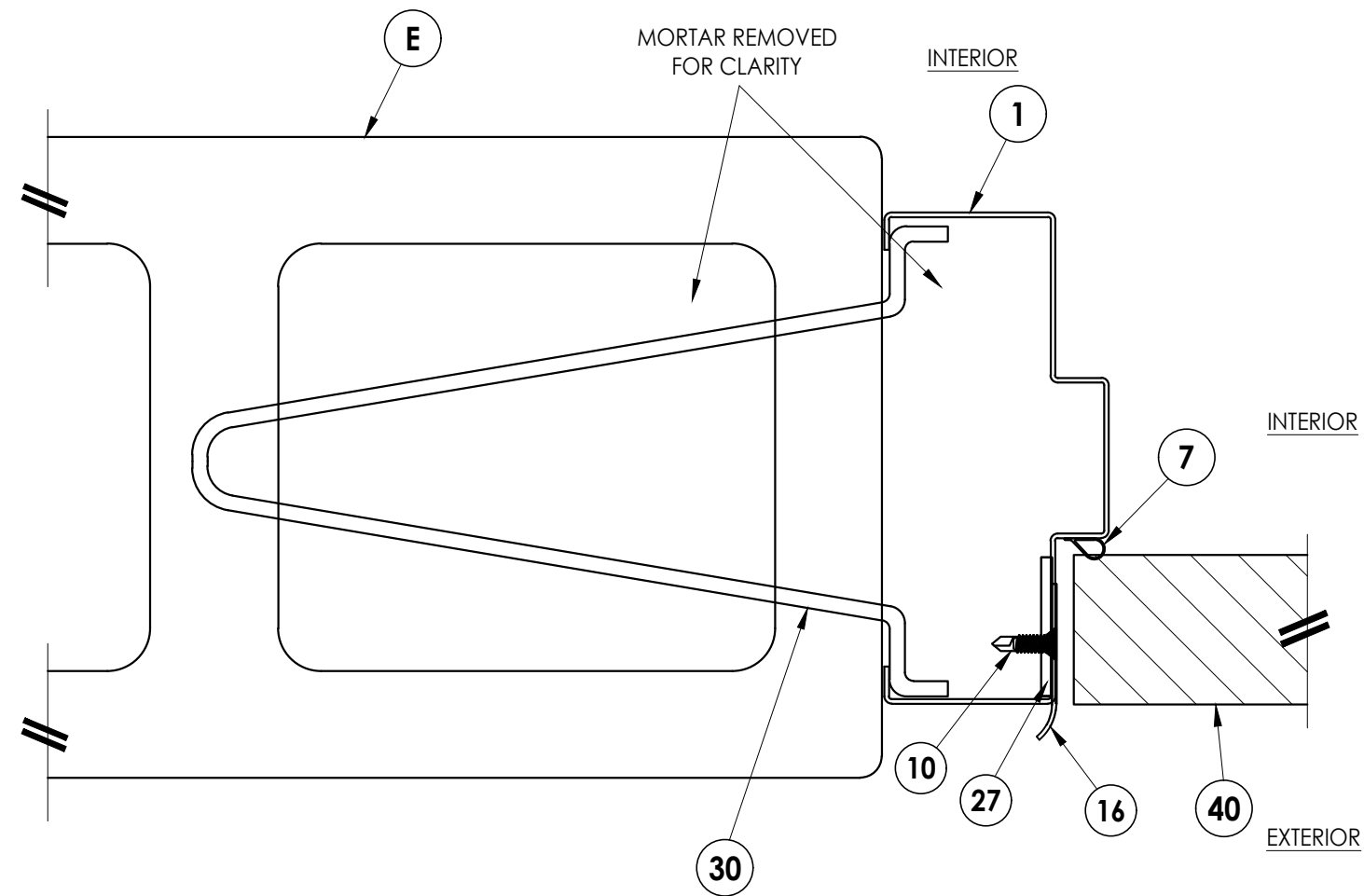
FL-40948.5

SHEET 2 OF 8

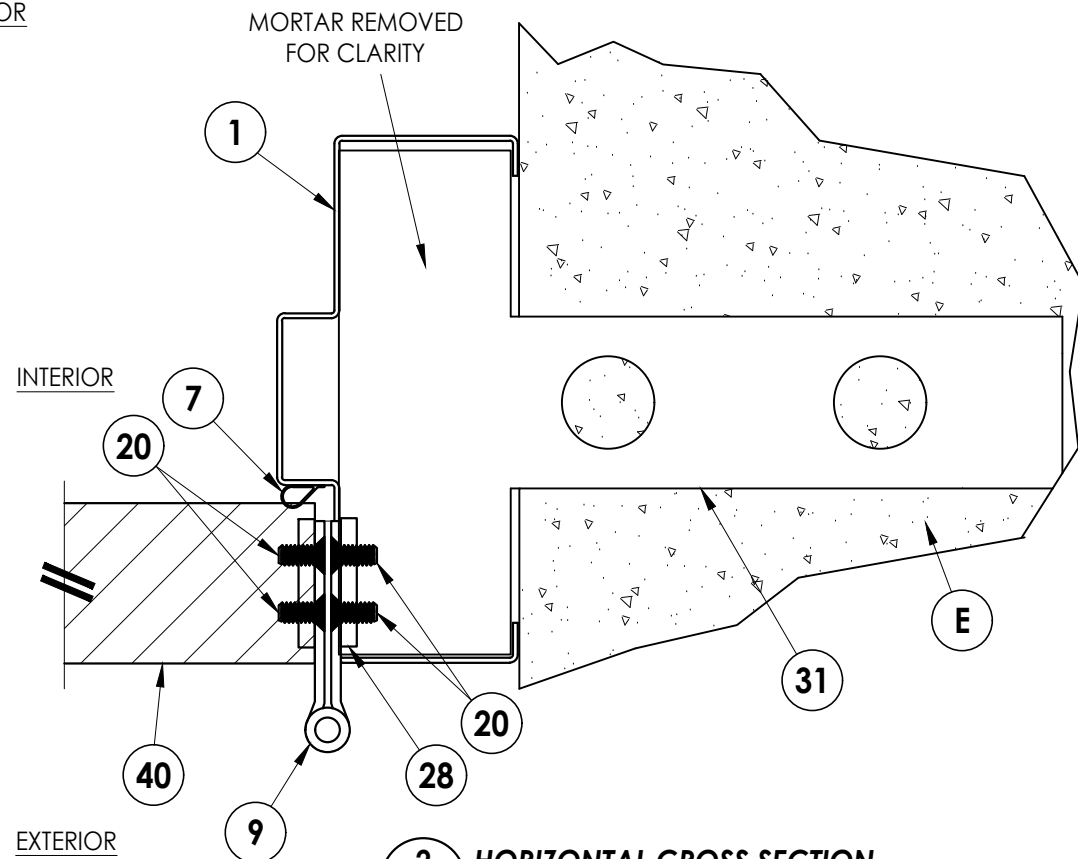
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Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				<i>R^gW</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: MPI COMMERCIAL STEEL DOOR				PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS			
							BY
DATE: 8/20/24							
SCALE: N.T.S.							
DWG. BY: LFS							
CHK. BY: RW							
DRAWING NO.: FL-40948.5							
SHEET 3		OF 8					



1 **HORIZONTAL CROSS SECTION**
4 Shown w/ Masonry Wire Anchor



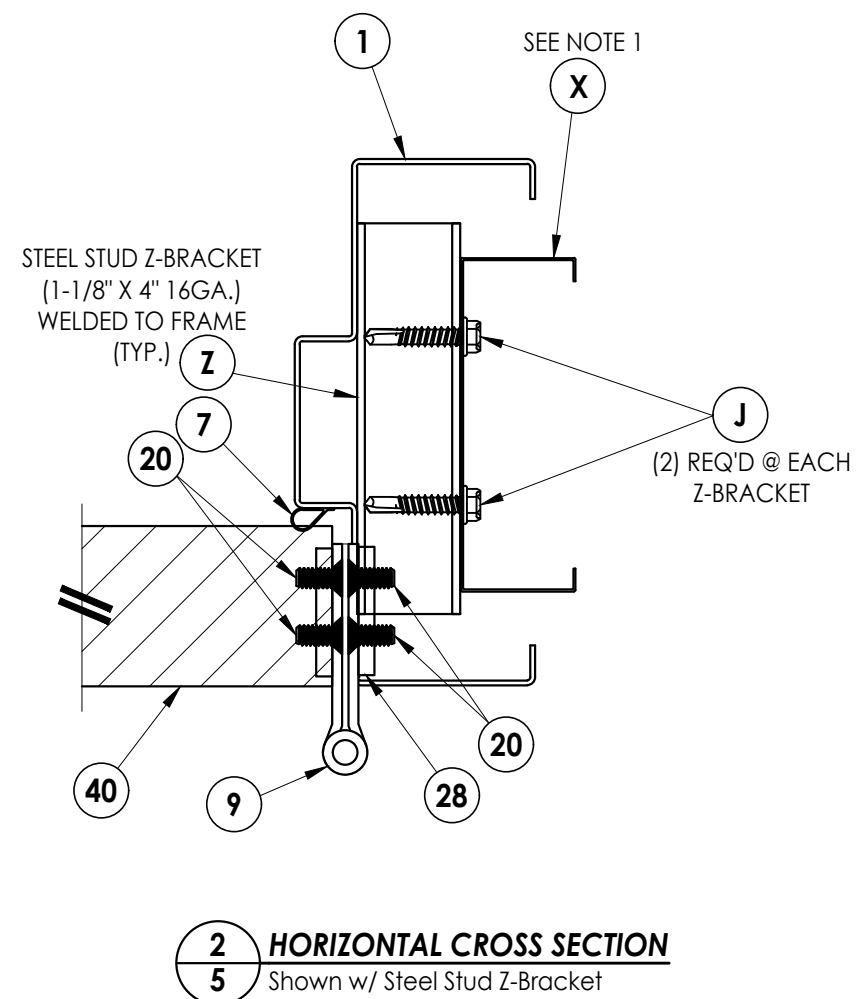
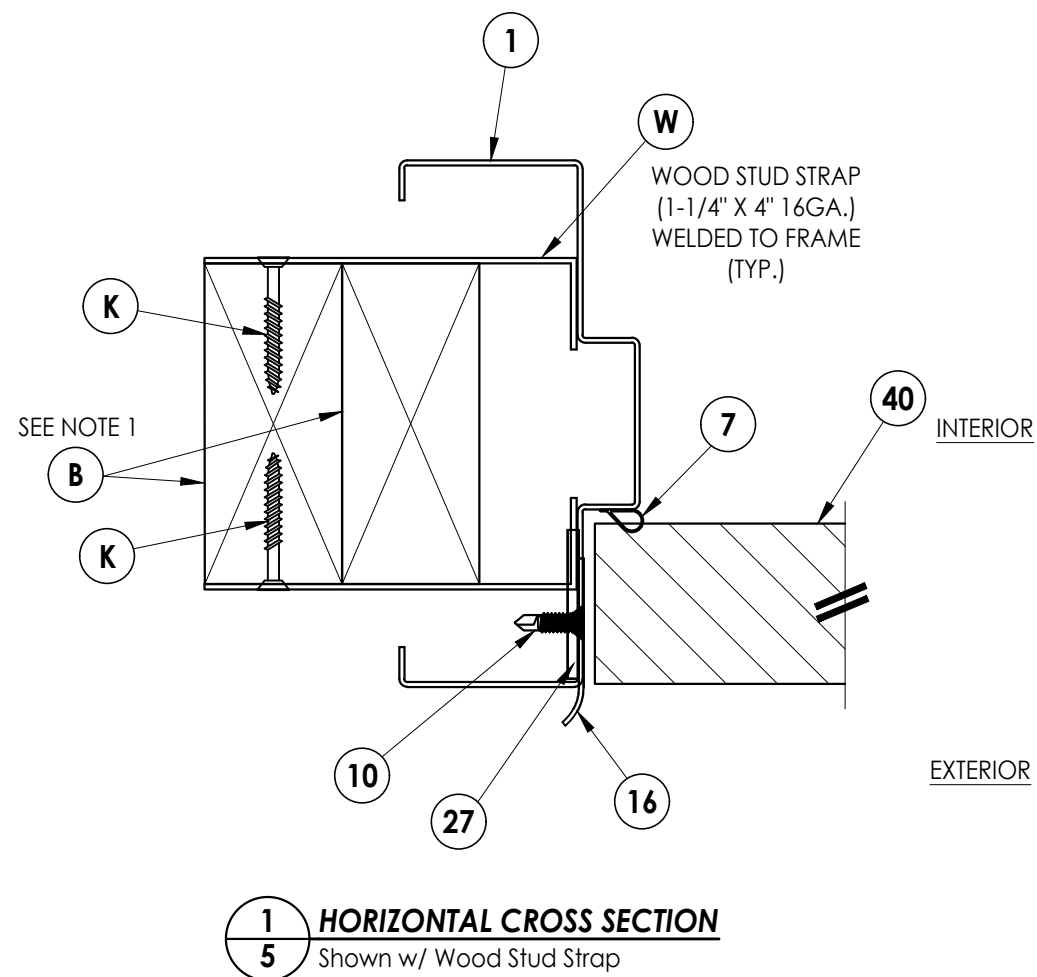
2 **HORIZONTAL CROSS SECTION**
4 Shown w/ Masonry "T"-Anchor

[illegible]

PRODUCT:	MPI COMMERCIAL STEEL DOOR
PART OR ASSEMBLY:	HORIZONTAL CROSS SECTIONS

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NOTE:

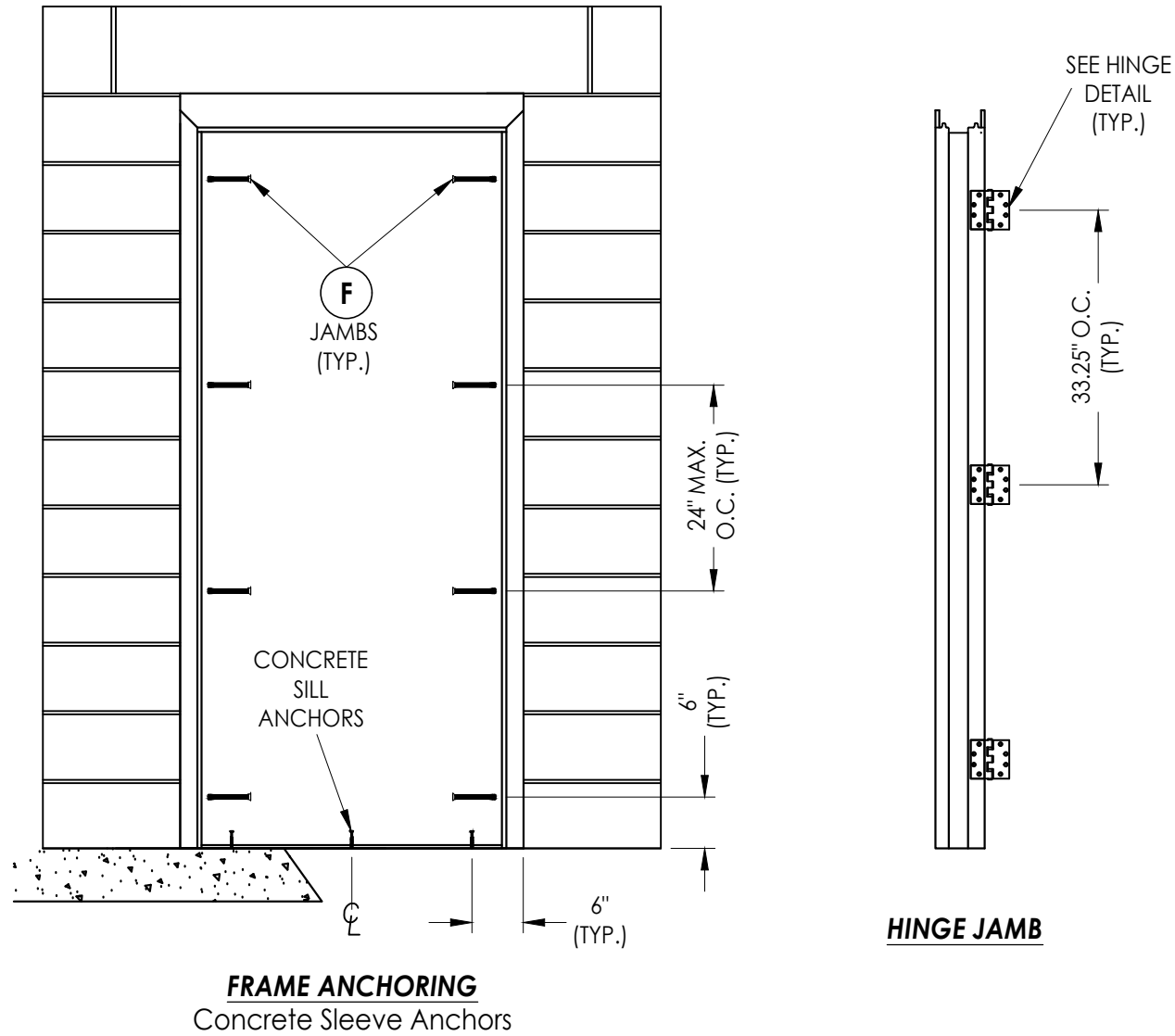
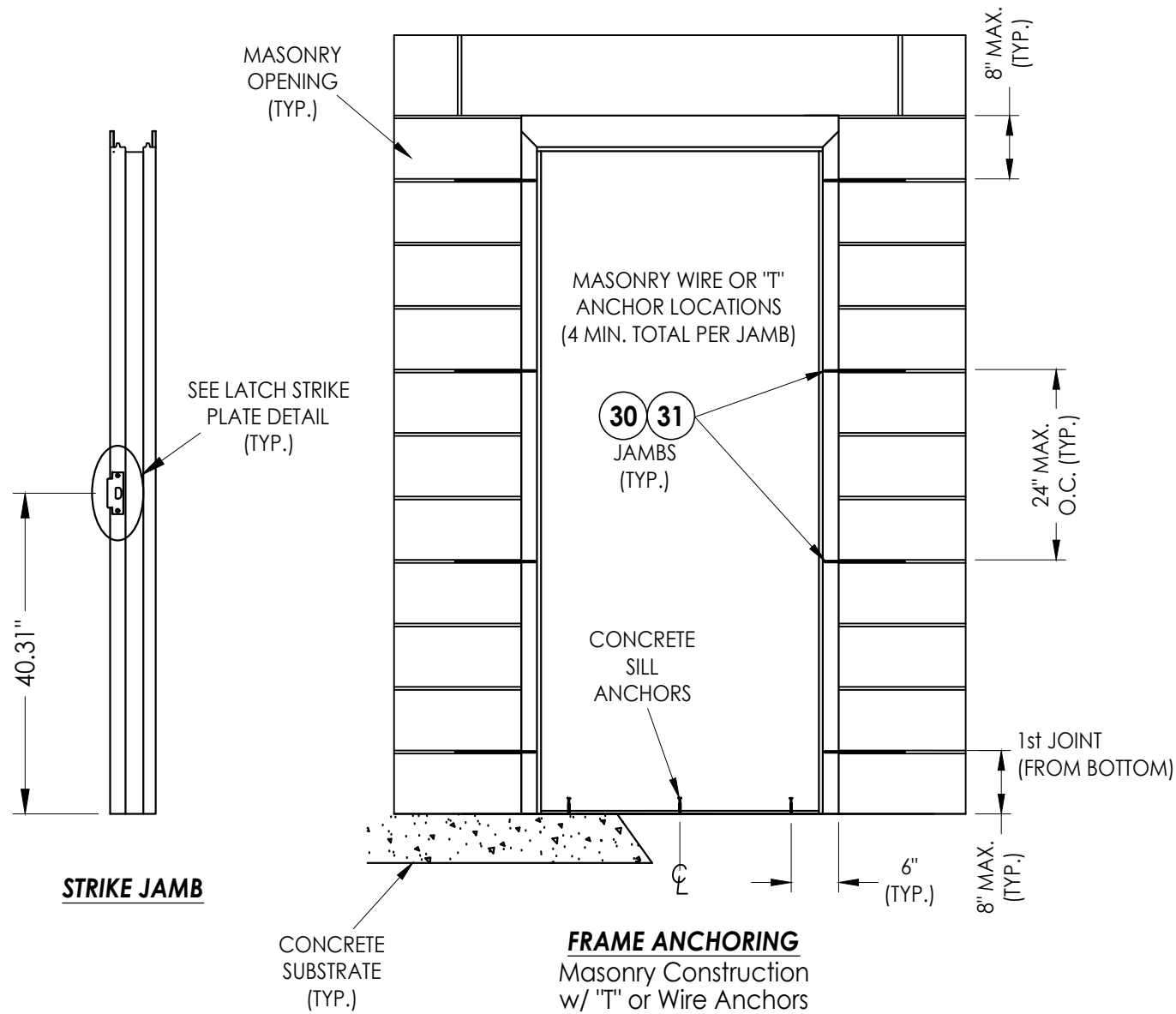
1. THE FRAME IS SHOWN ATTACHED TO WOOD & STEEL STUDS AS TESTED. THE BUILDING DESIGNER IS RESPONSIBLE FOR DETERMINING THE ACTUAL STUD DESIGN.

[illegible]

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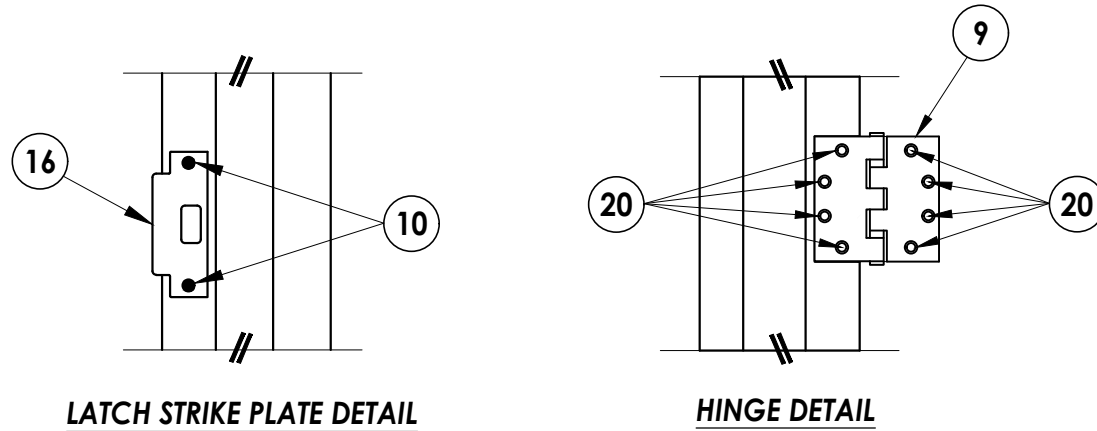
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CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." must be adjusted to maintain the minimum edge distance to mortar joints, additional concrete screws may be required to ensure the maximum on center dimension is not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT	MIN. CLEARANCE TO ADJACENT ANCHOR
CONCRETE ANCHOR SCREW	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRACON+® (DeWALT)	2-1/2"	1-3/4"	2"
CONCRET SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT® (ITW REDHEAD)	2-1/4"	1-1/2"	4-1/2"

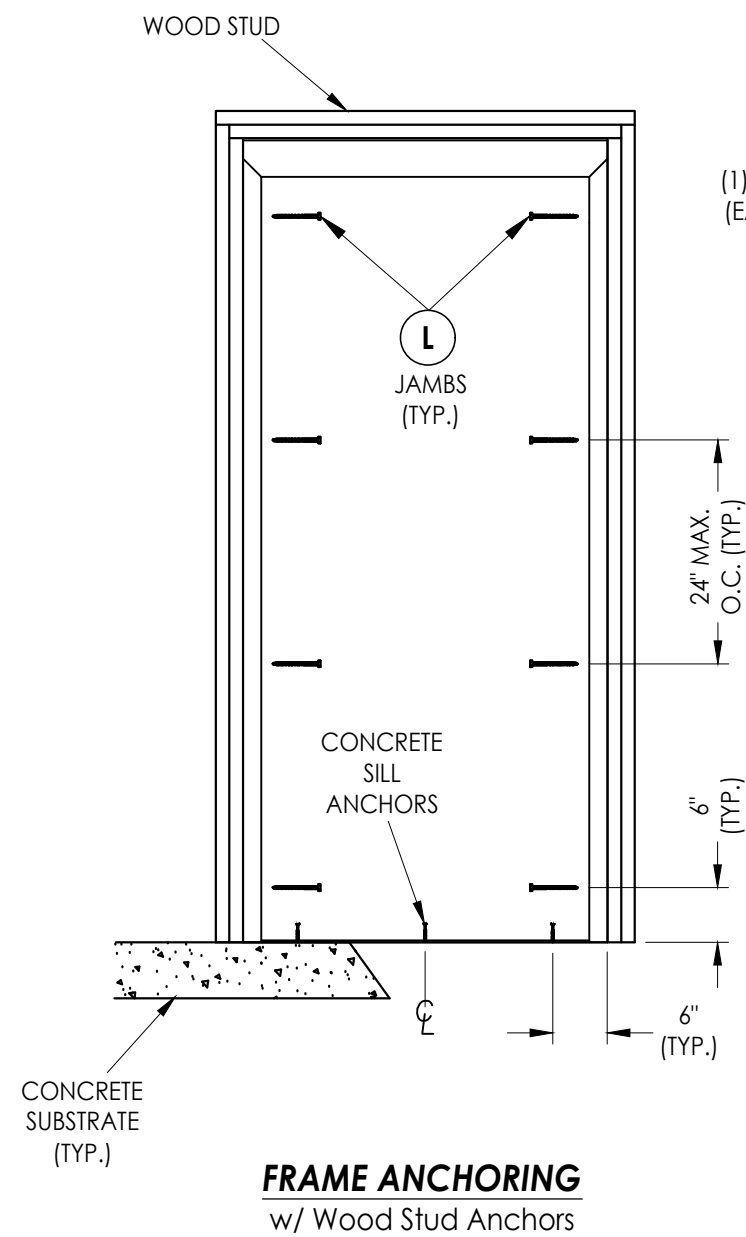


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P.O. Box 230 Valrico FL 33595
Phone No.: 813.659.9197
Florida Board of Professional Engineers
Certificate Of Authorization No. 9813
Lyndon F. Schmidt, P.E. No. 43409

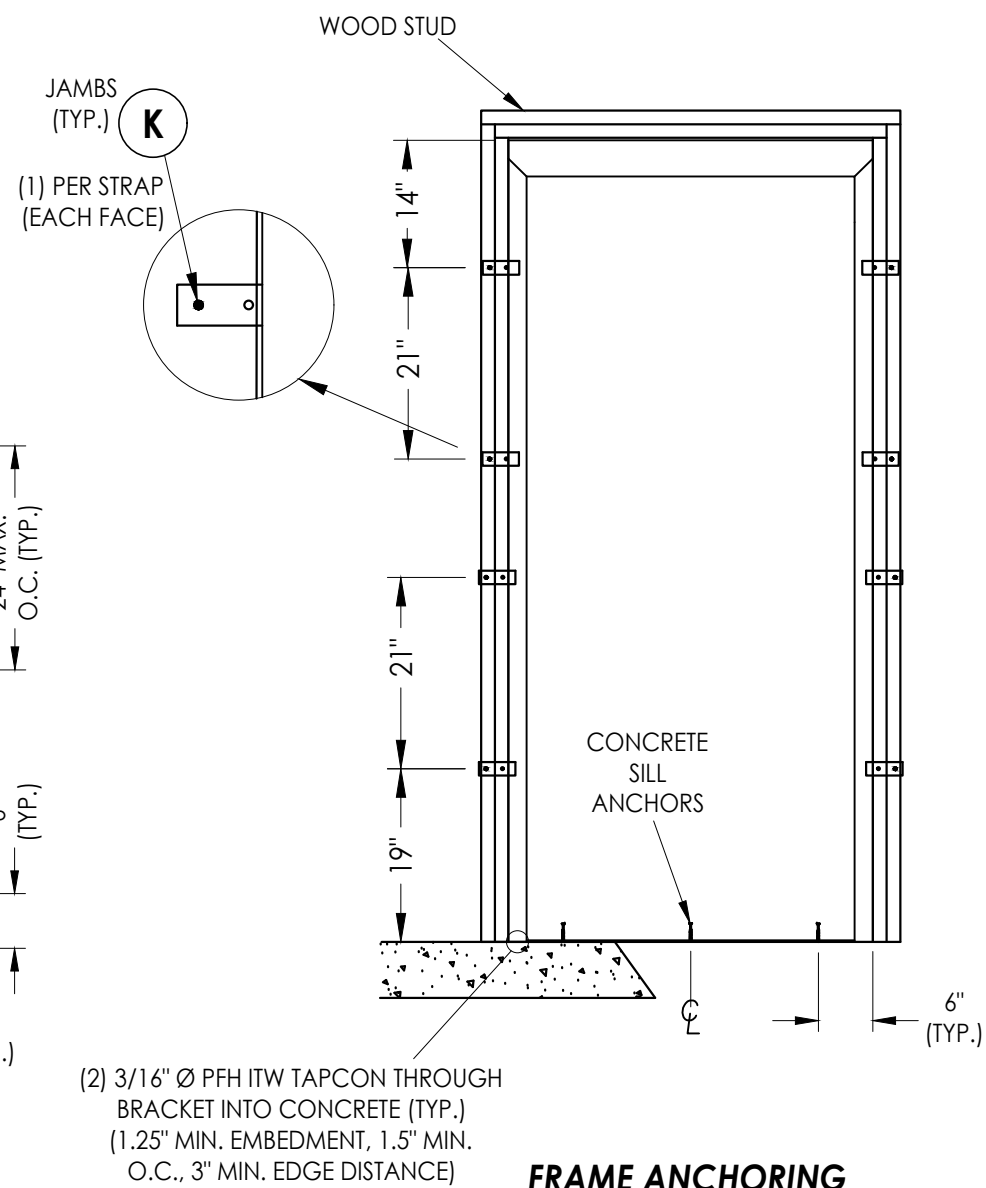
PRODUCT: MPI
STEEL COMMERCIAL DOOR
PART OR ASSEMBLY:
FRAME ANCHORING

NO.	DATE	BY	REVISIONS

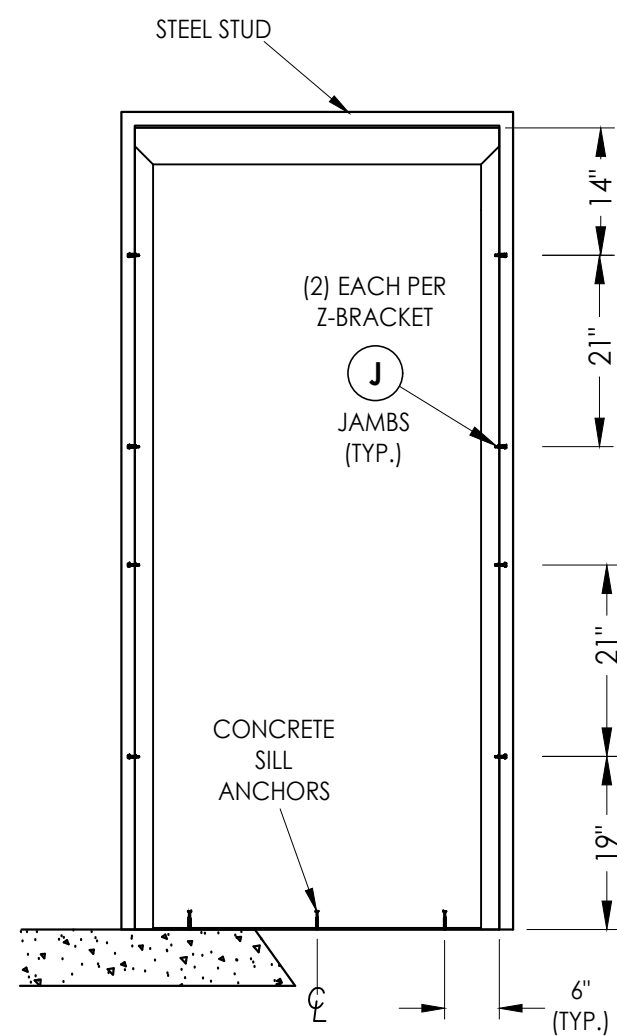
DATE: 8/20/24
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-40948.5
SHEET 6 OF 8



FRAME ANCHORING w/ Wood Stud Anchors



FRAME ANCHORING



FRAME ANCHORING w/ Steel Stud Anchors

DATE:	8/20/24
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-40948.5
SHEET	7 OF 8

[illegible]

PRODUCT:	MPI STEEL COMMERCIAL DOOR
PART OR ASSEMBLY:	FRAME ANCHORING

Documents Prepared By:

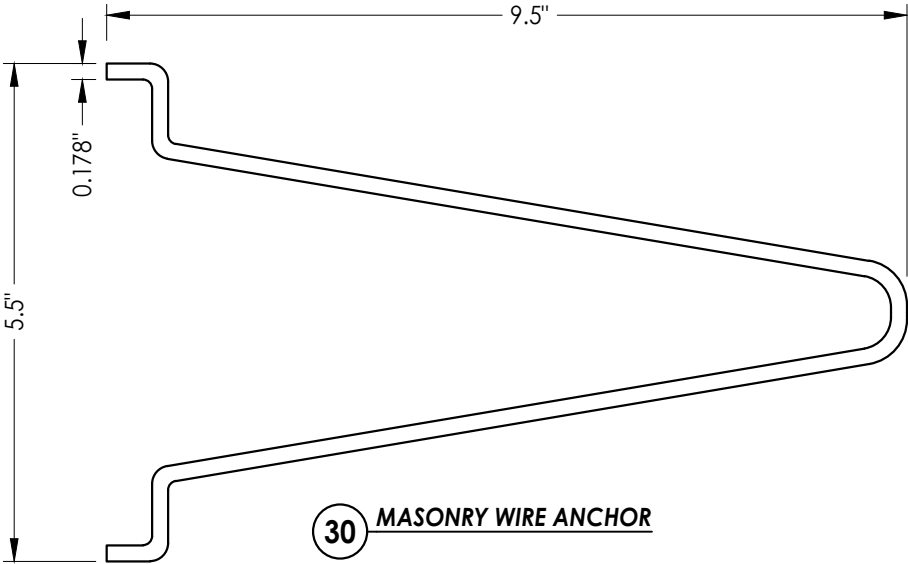
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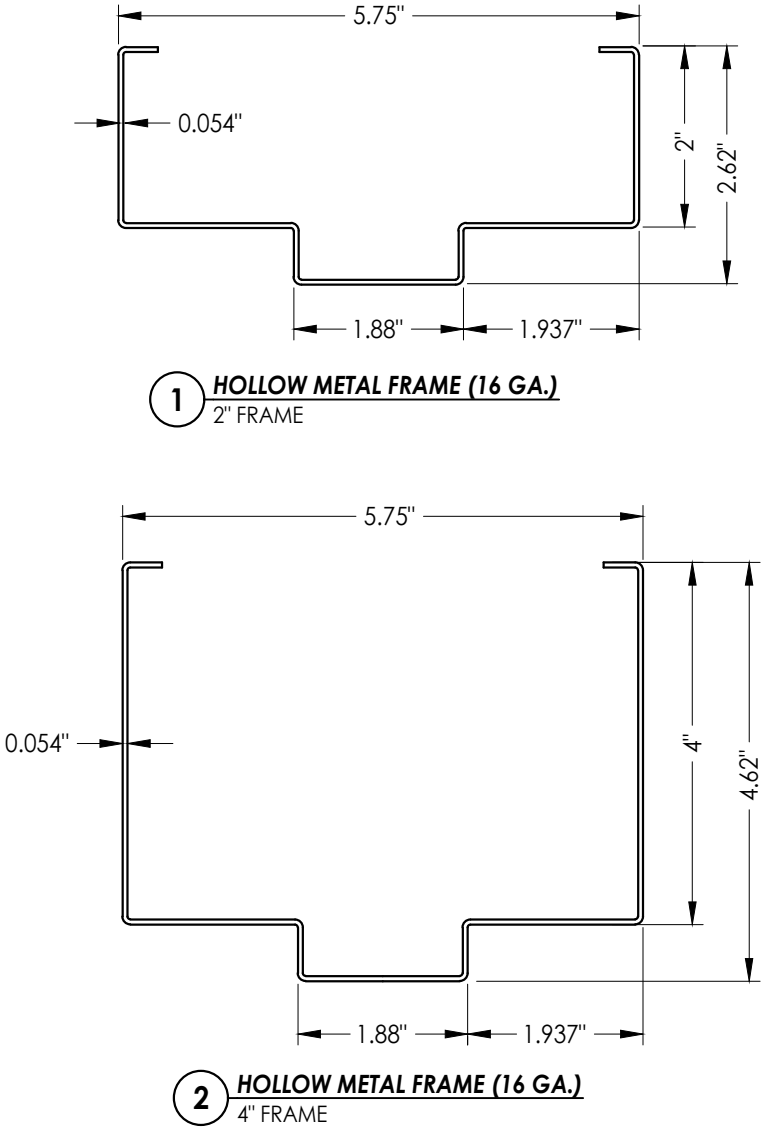
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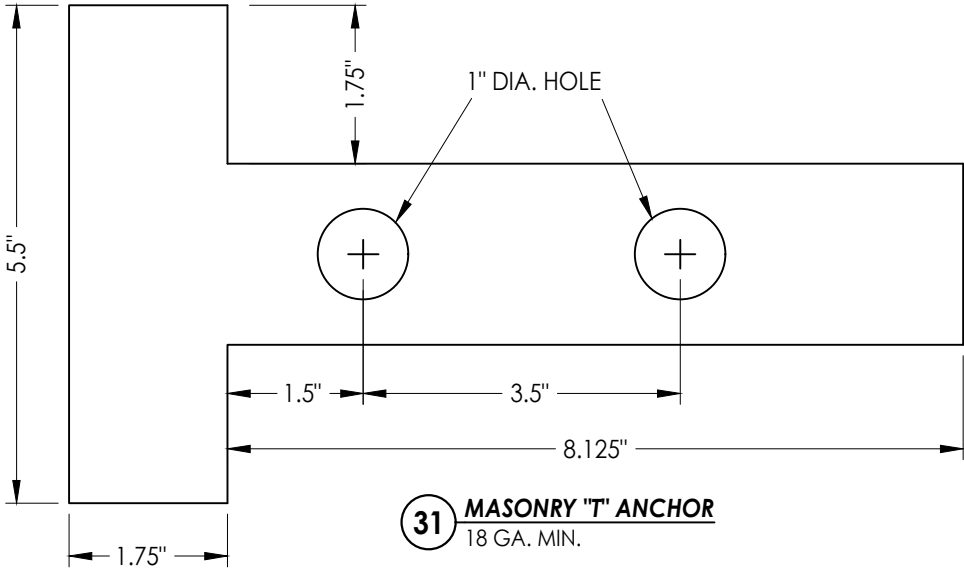
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X STUD FRAMING (G>= 0.42)	WOOD
C	1/4" MAX. SHIM SPACE	-
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
F	3/8" X 5" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL
G	EMA ANCHOR (16 GA.)	STEEL
H	1/4" X 2-1/4" PFH CONCRETE SCREW	STEEL
J	#8 X 1" HWH SELF-DRILLING SMS (3 THREADS MIN. THROUGH BRACKET)	STEEL
K	#10 X 1-1/2" FH WOOD SCREW (1-1/4" MIN. EMBEDMENT)	STEEL
L	3/8" X 5" HH LAG SCREW	STEEL
W	WOOD STUD STRAP (1-1/4" X 4" 16GA.)	STEEL
X	25 GA. X 3-5/8" 50 KSI STEEL STUD (ProSTUD)	STEEL
Z	STEEL STUD Z-BRACKET (1-1/8" X 4" 16GA.)	STEEL
1	HOLLOW METAL FRAME (2" JAMBS)	STEEL
2	HOLLOW METAL FRAME (4" HEAD)	STEEL
7	WEATHERSTRIP (OPTIONAL)	FOAM
9	4-1/2" X 4-1/2" HINGE	STEEL
10	#12-24 X 1" COMB MACHINE/WOOD SCREW	STEEL
14	ADA BUMP THRESHOLD (OPTIONAL)	STEEL
16	LATCH STRIKE PLATE	STEEL
20	#12-24 X 1/2" PFH MACHINE SCREW	STEEL
27	FRAME LATCH STRIKE REINFORCEMENT (11 GA.)	STEEL
28	FRAME HINGE REINFORCEMENT (7 GA.)	STEEL
30	MASONRY WIRE ANCHOR	STEEL
31	MASONRY "T" ANCHOR	STEEL
40	DOOR PANEL	-



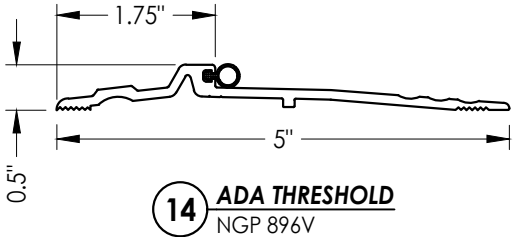
30 MASONRY WIRE ANCHOR



2 HOLLOW METAL FRAME (16 GA.)
4" FRAME



31 MASONRY "T" ANCHOR
18 GA. MIN.



14 ADA THRESHOLD
NGP 896V

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PRODUCT: MPI STEEL COMMERCIAL DOOR		PART OR ASSEMBLY: BILL OF MATERIALS & COMPONENTS	
		REVISIONS	
		NO.	DATE
			BY
DATE: 8/20/24			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-40948.5			
SHEET 8 OF 8			