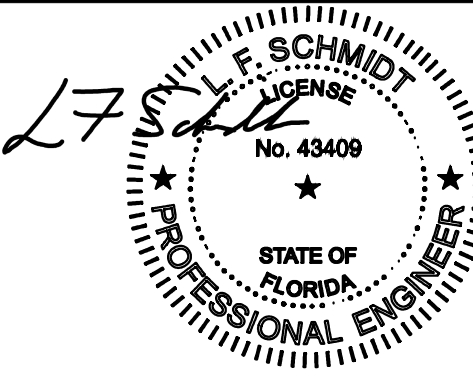




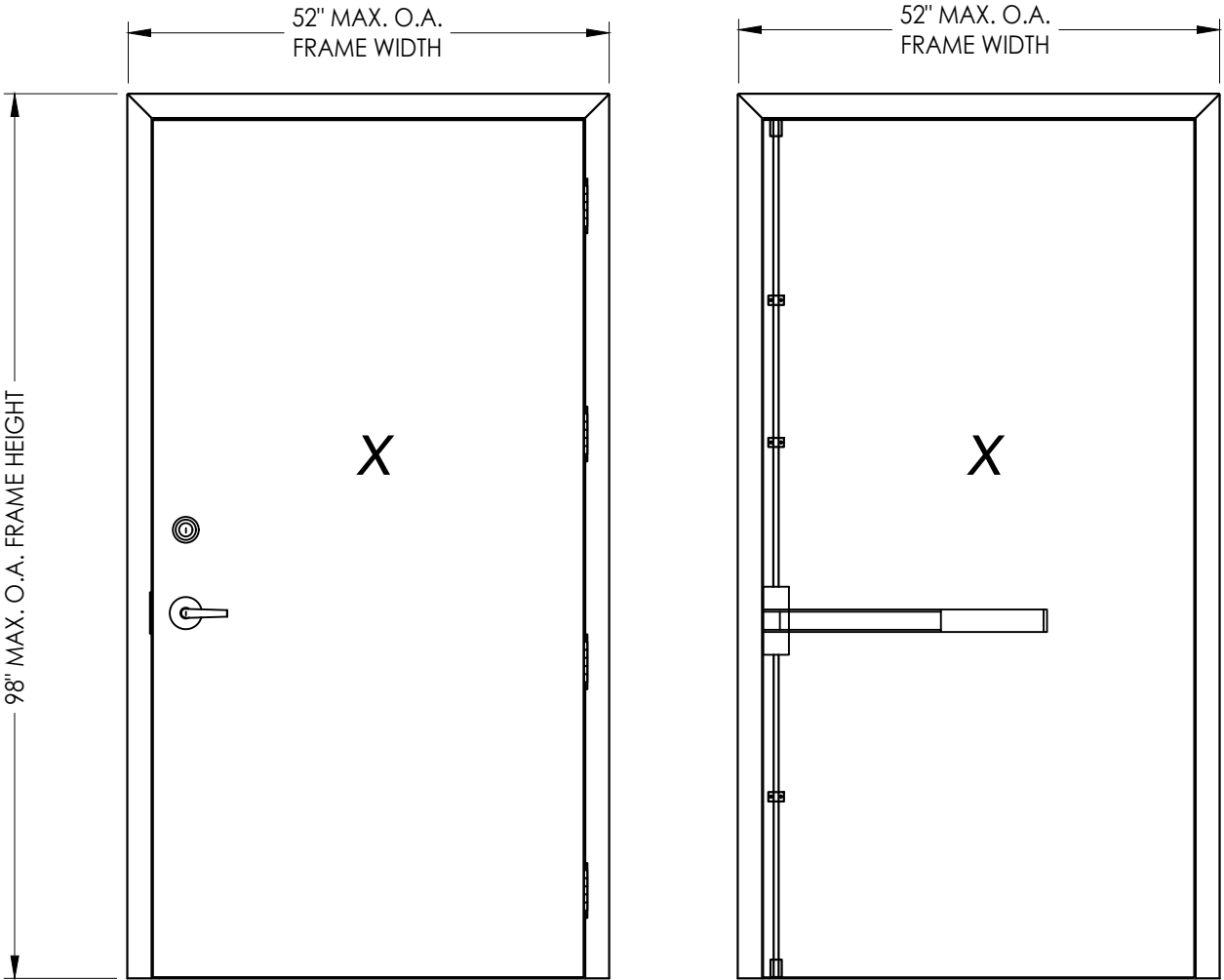
STEEL DOOR & FRAME SYSTEMS, INC.

DKS SERIES 1800
STEEL COMMERCIAL DOOR
OUTSWING
"IMPACT"



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



161 Latch & Deadbolt
"Pioneer SL/CSL Series" Latch
"T300 Series" Deadbolt

Panic Bar Exit Device w/ Vertical Rods
"7700-V Series"

OVERALL FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF)	
		POSITIVE	NEGATIVE
52.0" x 98.0"	161 LATCH & DEADBOLT "PIONEER SL/CSL & T300 Series"	+80.0	-80.0
40.0" x 98.0"	PANIC BAR EXIT DEVICE w/ VERTICAL RODS "7700-V Series"	+70.0	-70.0
52.0" x 98.0"	PANIC BAR EXIT DEVICE w/ VERTICAL RODS "7700-V Series"	+50.0	-50.0

GENERAL NOTES

- 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).
- 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 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 E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
- 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 and vertical cross sections
4	Frame anchoring
5	Bill of materials and components

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

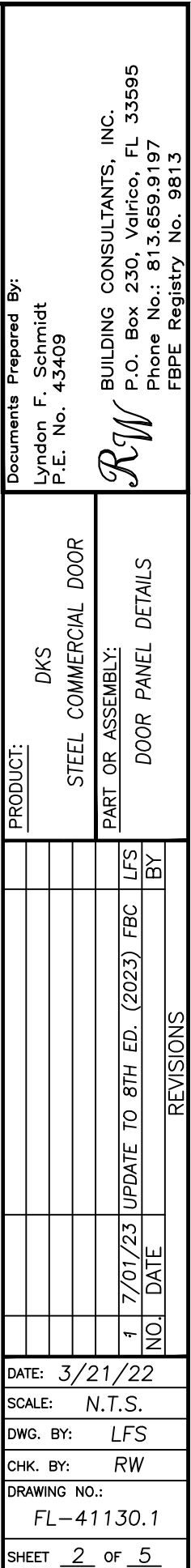
RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: DKS
STEEL COMMERCIAL DOOR

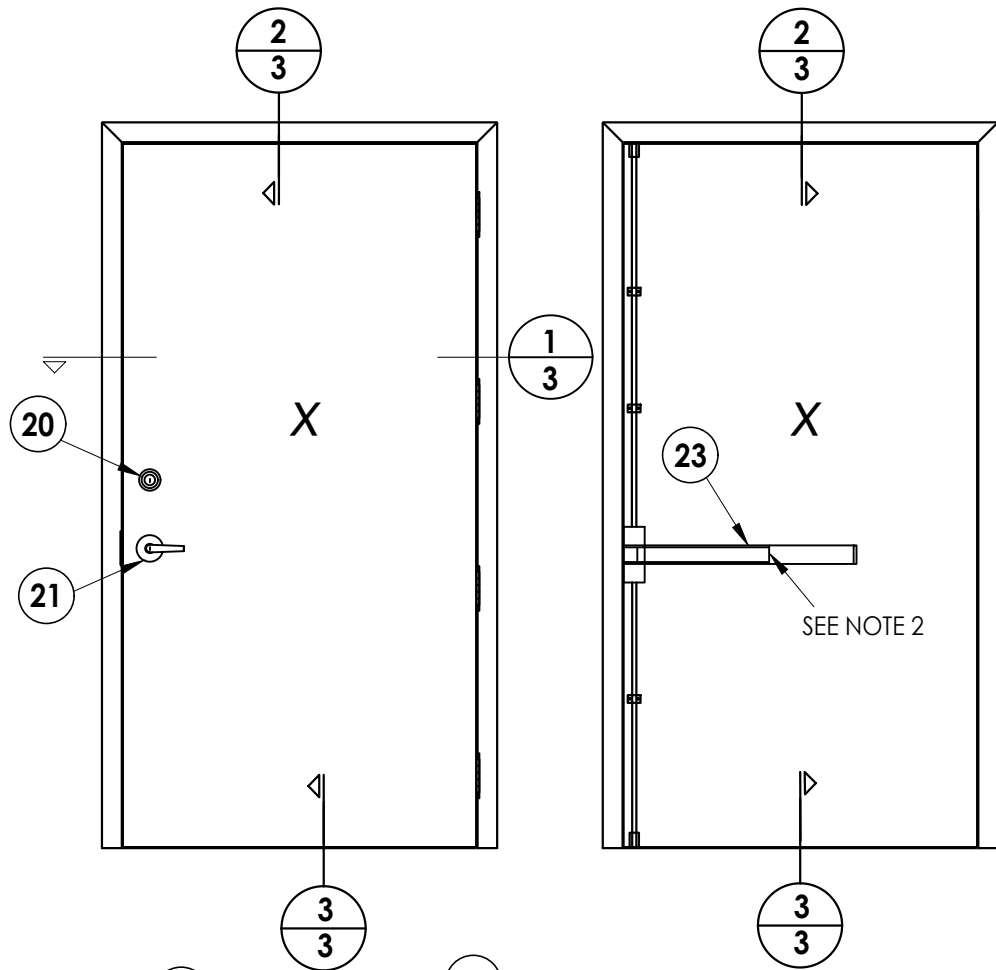
PART OR ASSEMBLY:
TYPICAL ELEVATION, DESIGN
PRESSURES & GENERAL NOTES

NO.	DATE	REVISIONS	
		LFS	BY
1	7/01/23	UPDATE TO 8TH ED. (2023) FBC	

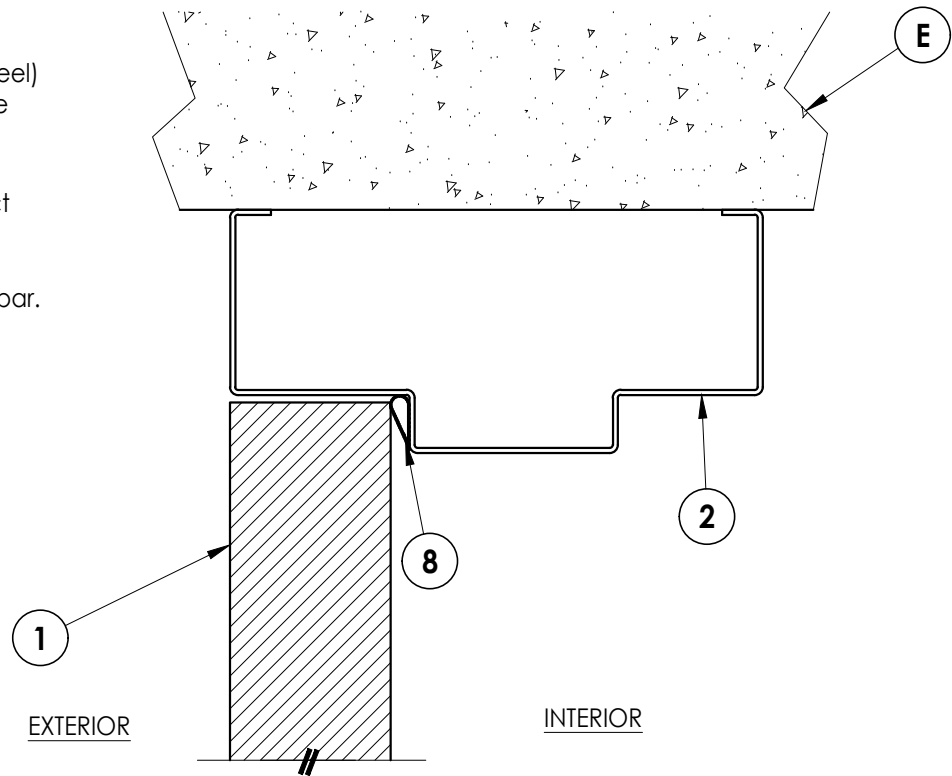
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SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.: FL-41130.1
SHEET 1 OF 5



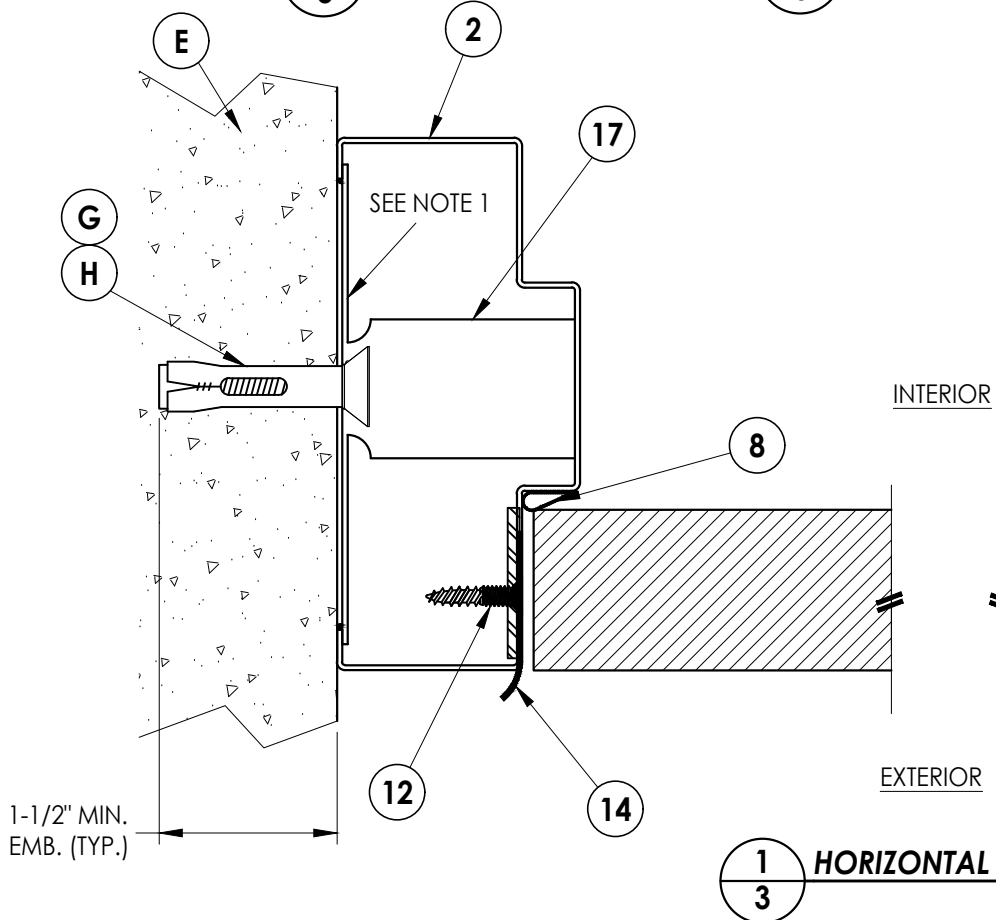
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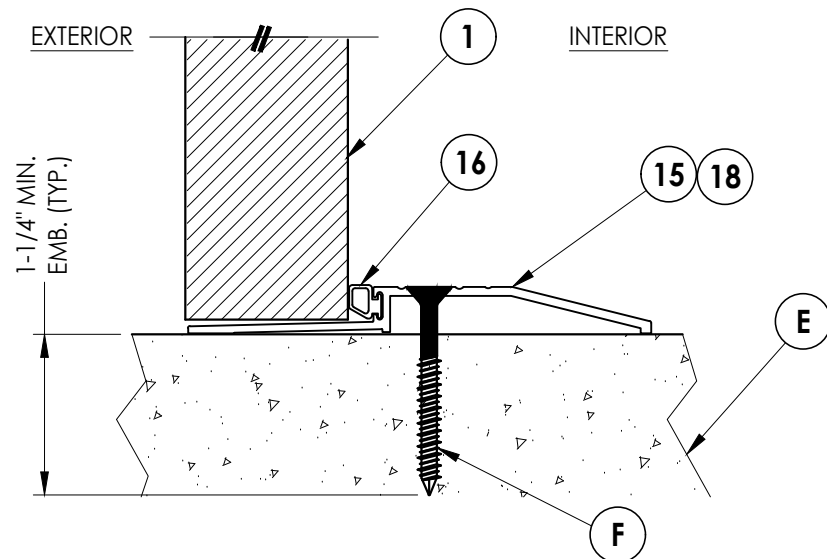
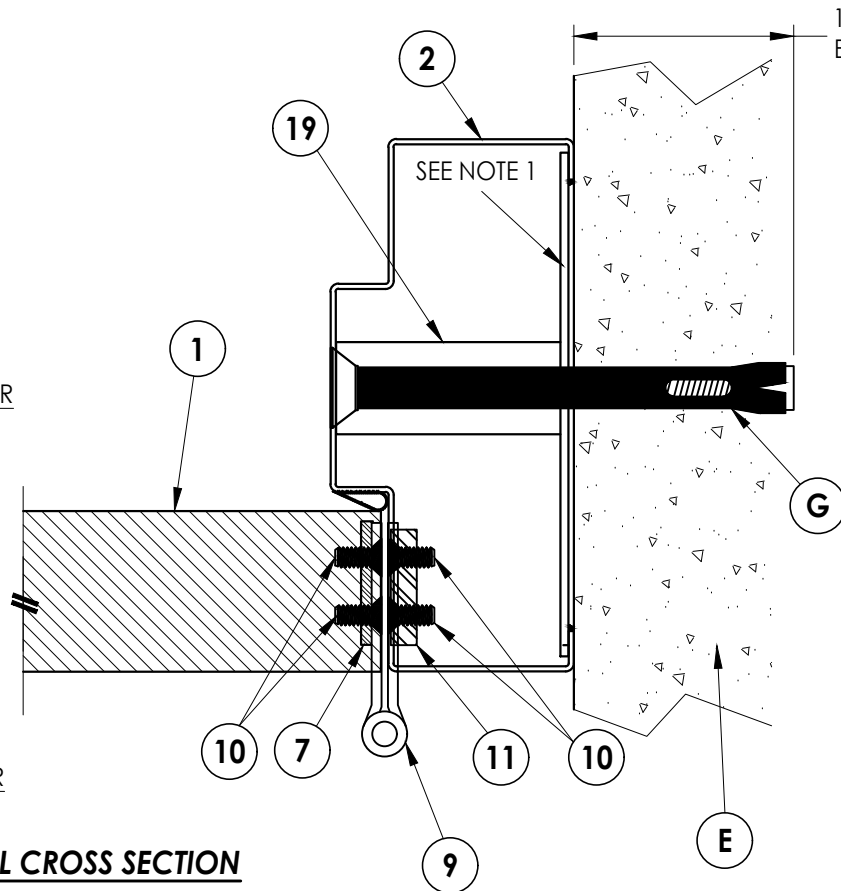
- NOTES:
1. Anchor strap (3/4" wide, 18 gauge steel) or Tube Anchor tack welded to frame along each end.
 2. Panic Bar set screws (#12-24 x 5/16") must be activated to achieve impact rating. Locate one screw at top and bottom at center of push rail or locate one screw at each end of bar.



2/3 VERTICAL CROSS SECTION
Outswing configuration



1/3 HORIZONTAL CROSS SECTION



3/3 VERTICAL CROSS SECTION
Outswing configuration

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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
HORIZONTAL AND VERTICAL
CROSS SECTIONS

NO.	DATE	BY	REVISIONS
1	7/01/23	LFS	UPDATE TO 8TH ED. (2023) FBC

DATE: 3/21/22

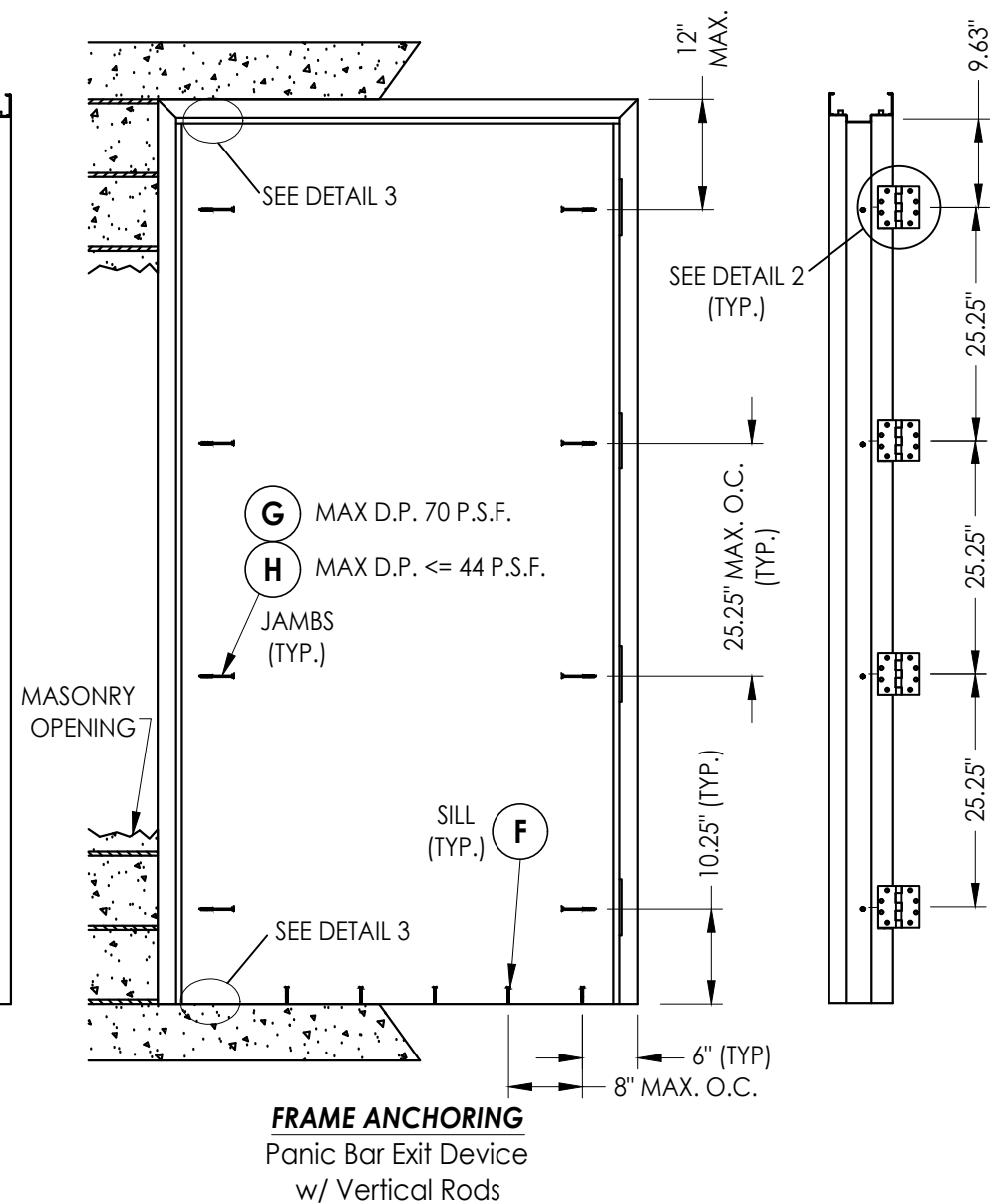
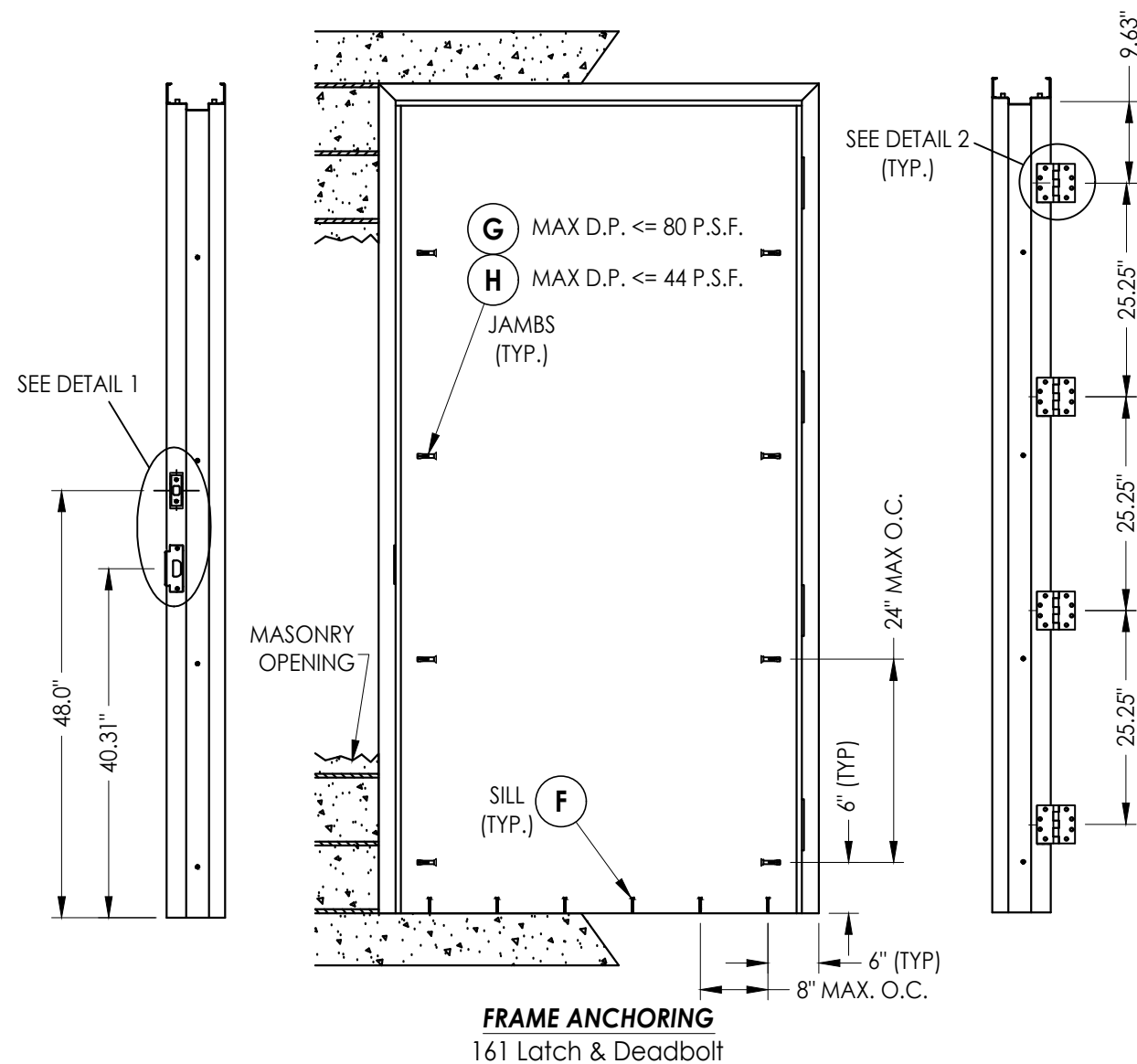
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DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: FL-41130.1

SHEET 3 OF 5

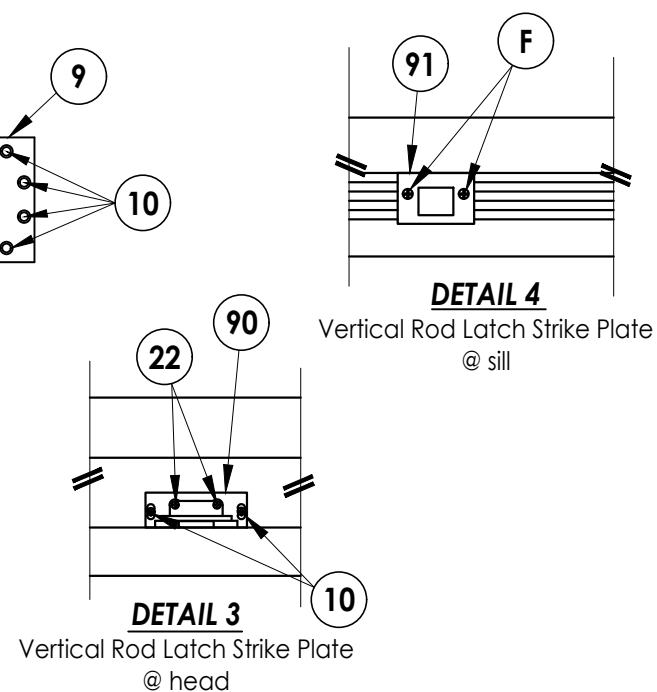
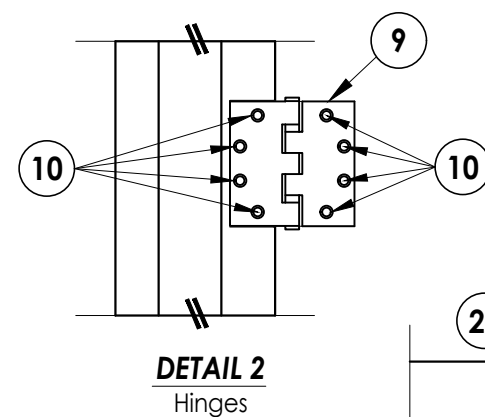
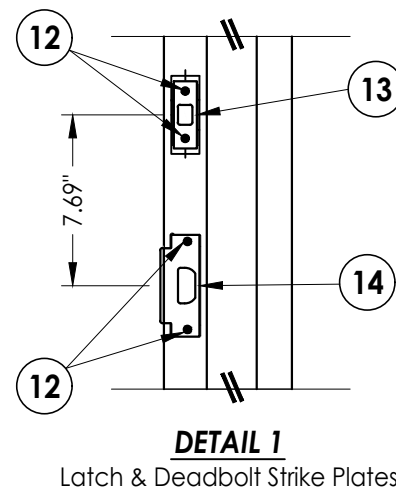


CONCRETE ANCHOR NOTES:

1. Substitution of equal concrete screws from a different supplier may have different edge distance and center distance requirements.
2. Concrete screw locations at the corners may be adjusted to maintain the minimum edge distance to mortar joints. If concrete screw locations noted as "MAX. ON CENTER" 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.
3. Concrete anchor table:

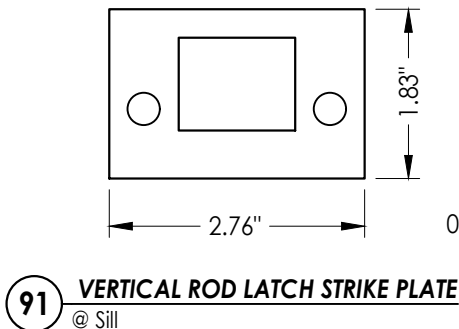
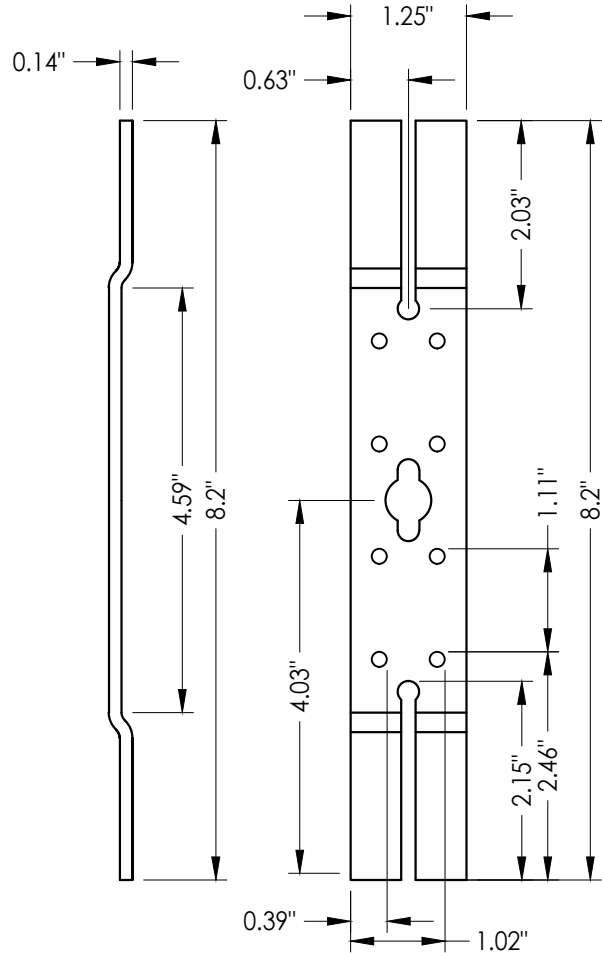
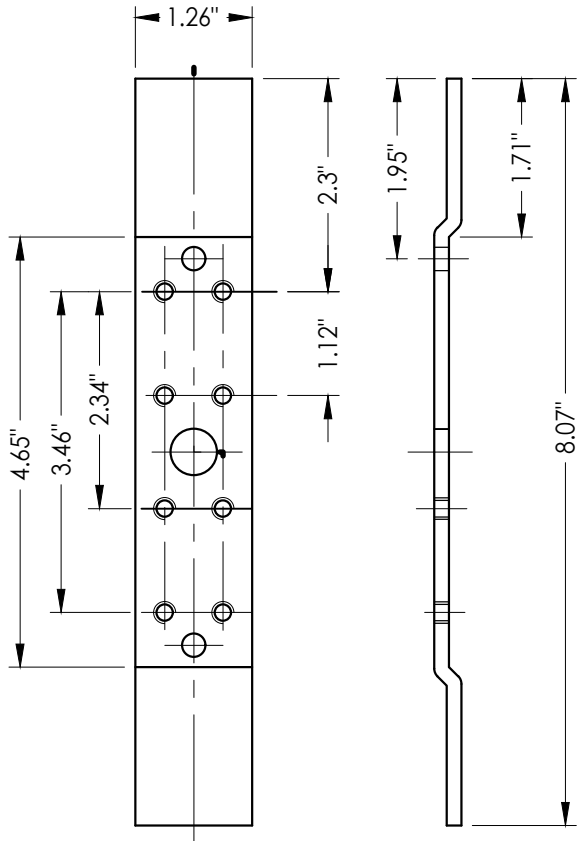
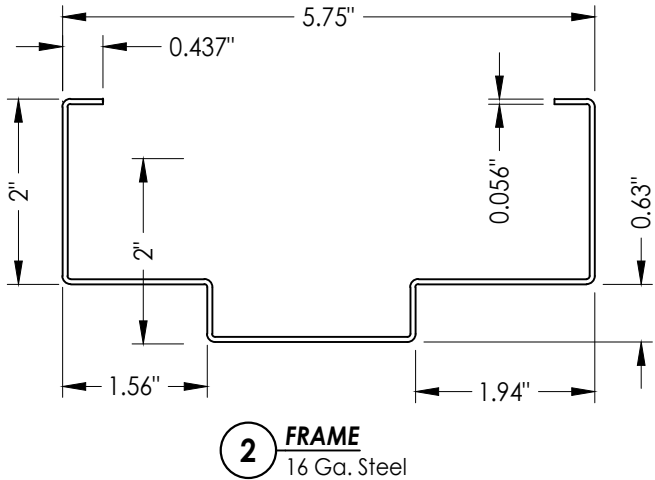
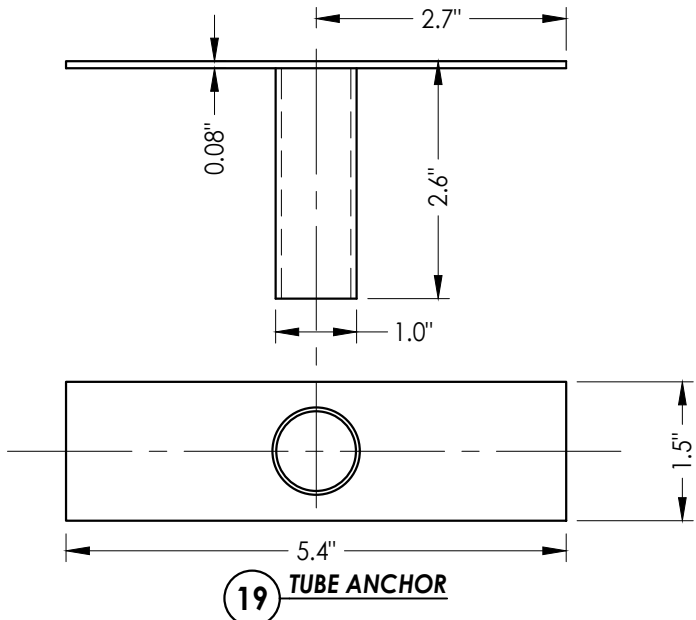
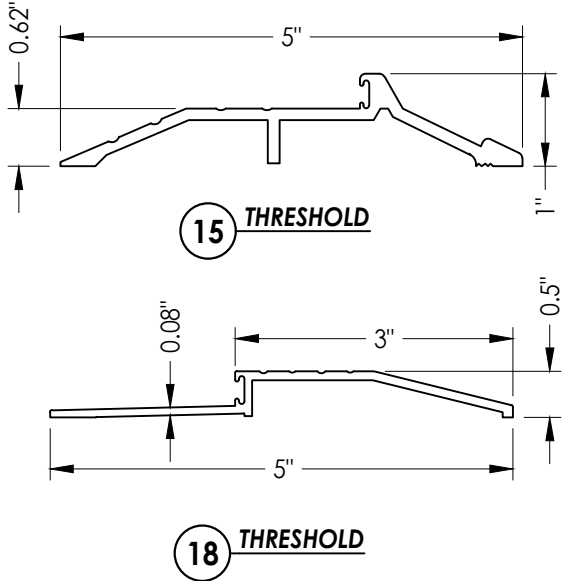
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	4"	2"
TAPPER	3/8"	1-1/2"	4-1/4"	3-3/4"
DYNABOLT SLEEVE ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"

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

[illegible]

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BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	1/4" X 2-1/4" ITW PFH CONCRETE SCREW	STEEL
G	3/8" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL
H	3/8" PFH TAPPER CONCRETE SCREW BY POWERS FASTENERS	STEEL
1	DKS DOOR PANEL	STEEL
2	HOLLOW FRAME 2"	STEEL
3	BOTTOM CHANNEL	STEEL
4	FLUSH TOP CHANNEL	STEEL
5	LOCK BOX REINFORCEMENT	STEEL
5A	LOCK BOX REINFORCEMENT	STEEL
6	DOOR CLOSER REINFORCEMENT (11 GA.)	STEEL
7	DOOR HINGE REINFORCEMENT	STEEL
8	WEATHERSTRIP - COMPRESSION BULB 1/4" X 1/2" (PEMKO S88)	NEOPRENE
9	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL
10	#12-24 X 1/2" PFH MACHINE SCREW	STEEL
11	FRAME HINGE REINFORCEMENT	STEEL
12	#12-24 X 1" COMBINATION MACHINE / WOOD SCREW	STEEL
13	DEAD BOLT STRIKE	STEEL
14	ANSI LATCH STRIKE	STEEL
15	THRESHOLD (PEMKO #181_T)	ALUM
16	WEATHERSTRIP (THERMOSEAL™)	NEOPRENE
17	UNIVERSAL WALL ANCHOR REINFORCEMENT	STEEL
18	THRESHOLD (PEMKO 2001P)	ALUM
19	TUBE ANCHOR REINFORCEMENT	STEEL
20	CAL-ROYAL PIONEER SL/CSL SERIES GRADE 2 CYLINDRICAL LOCK	-
21	CAL-ROYAL T300 MAX. SECURITY HEAVY-DUTY DEAD BOLT GRADE 2 LOCK	-
22	#8-24 X 3/4" COMB. MACHINE / WOOD SCREW	STEEL
23	CAL-ROYAL 7700-V SERIES VERTICAL ROD EXIT DEVICE	-
90	VERTICAL ROD LATCH STRIKE PLATE @ HEAD	STEEL
91	VERTICAL ROD LATCH STRIKE PLATE @ SILL	STEEL



7 DOOR HINGE REINFORCEMENT
8 Ga. Steel

90 VERTICAL ROD LATCH STRIKE PLATE
@ Head

91 VERTICAL ROD LATCH STRIKE PLATE
@ Sill

Documents Prepared By:
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FBPE Registry No. 9813

PRODUCT:
DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
BILL OF MATERIALS AND
COMPONENTS

DATE: 3/21/22

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:

FL-41130.1

SHEET 5 OF 5