



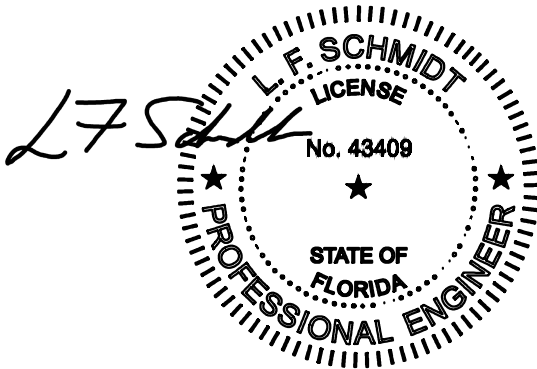
STEEL DOOR & FRAME SYSTEMS, INC.

DKS SERIES 1800
STEEL COMMERCIAL DOUBLE DOOR
IN swing / OUT swing
"IMPACT"

GENERAL NOTES

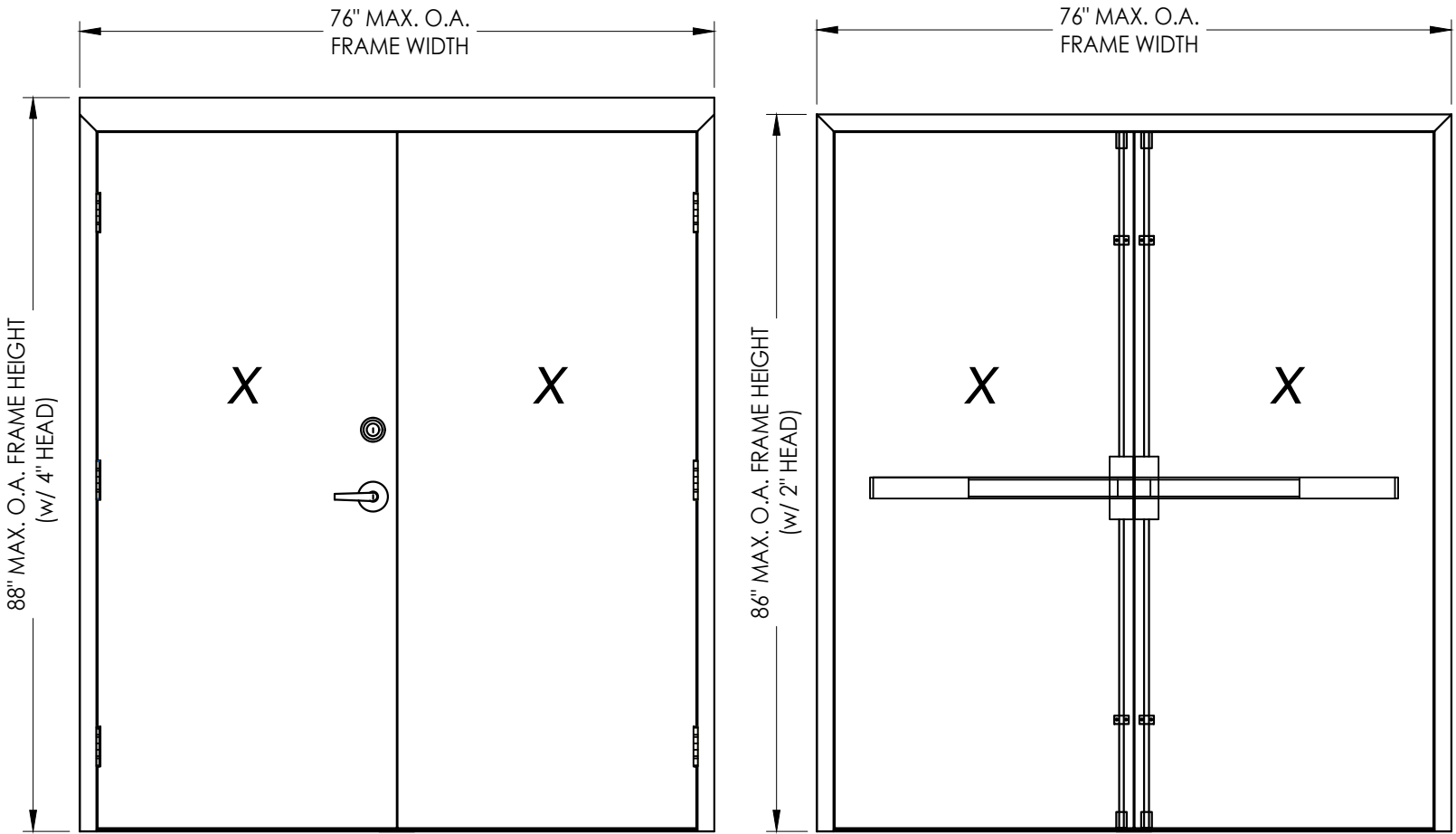
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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. When used in areas outside of the "HVHZ" 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 includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
6. This product does 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. When used in the "HVHZ", steel must be protected as specified in FBC Section 2222.6

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SHEET #	DESCRIPTION
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2	Door panel details
3	Door panel details
4	Horizontal cross sections
5	Vertical cross sections
6	Frame anchoring
7	Frame anchoring
8	Components
9	Bill of materials and components



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



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

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

MAX FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF) IN swing		DESIGN PRESSURE (PSF) OUT swing	
		POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
76.0" x 88.0"	161 LATCH & DEADBOLT "Pioneer SL/CSL & T300 Series"	+55.0	-55.0	+55.0	-55.0
76.0" x 88.0"	PANIC BAR EXIT DEVICE w/ VERTICAL RODS "7700-V Series"	N/A	N/A	+70.0	-70.0

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

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
1	7/01/23	UPDATE TO 8TH ED. (2023) FBC

DATE: 3/21/22

SCALE: N.T.S.

DWG. BY: LFS

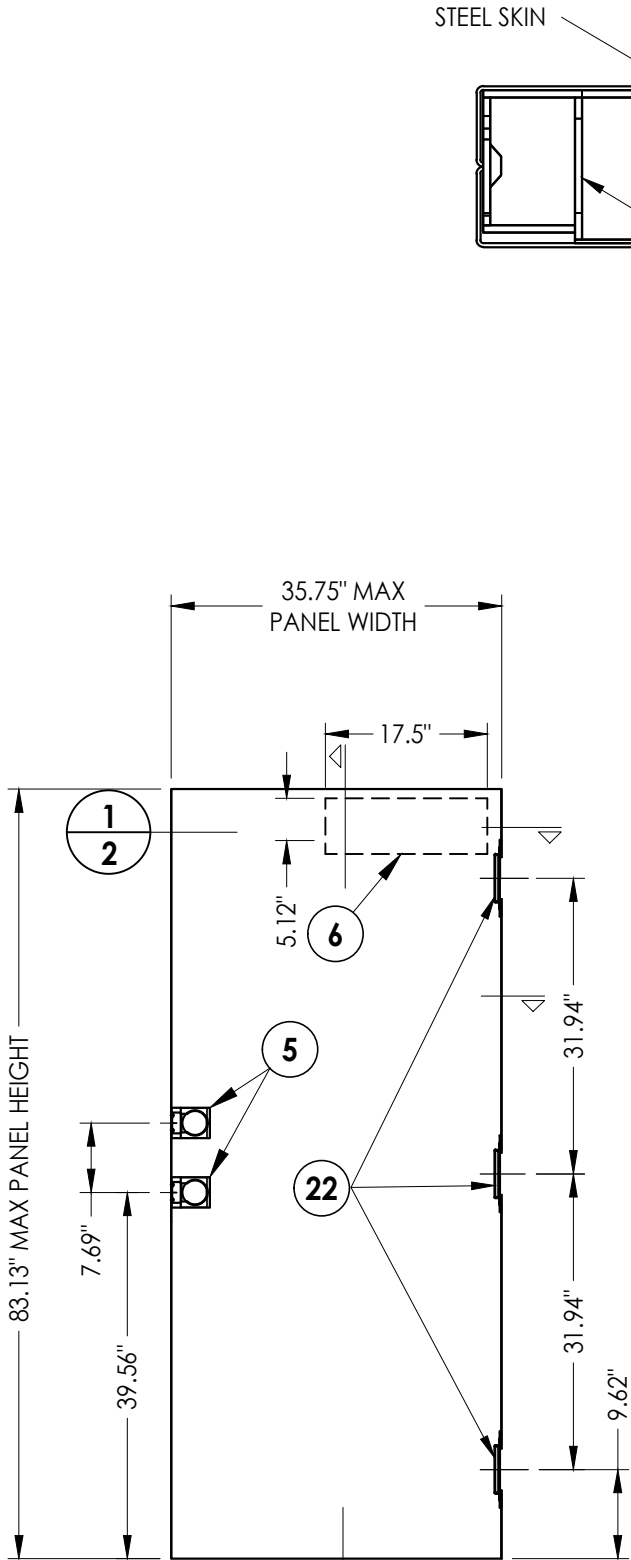
CHK. BY: RW

DRAWING NO.:

FL-41130.6

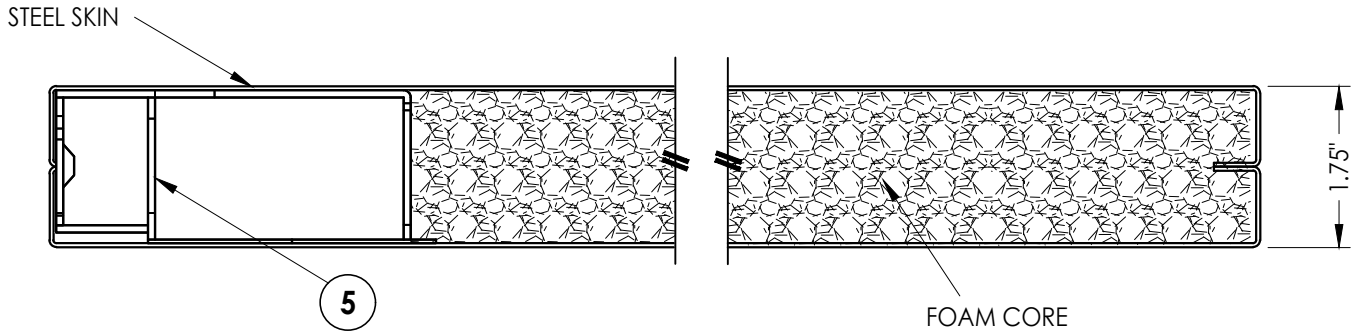
SHEET 1 OF 9

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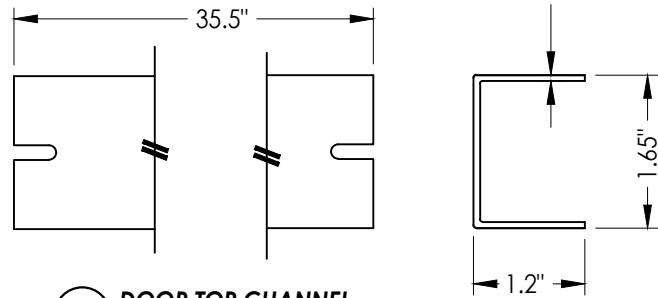


1 DKS STEEL DOOR PANEL
Active door

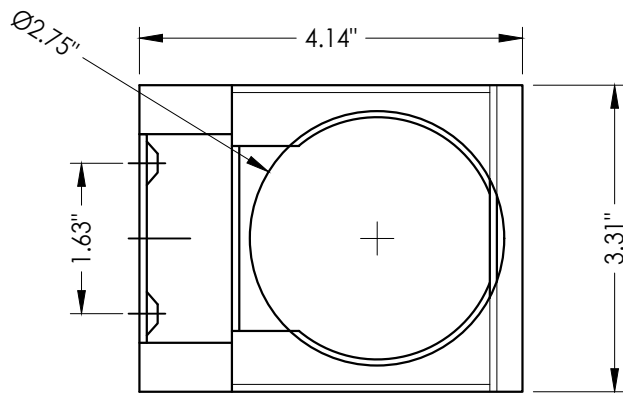
STEEL DOOR SKIN (18 GA.): MIN. 0.045" THK.
STEEL GRADE: ASTM A1008 GALV. STEEL (F_y = 33,000 PSI MIN.)
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)



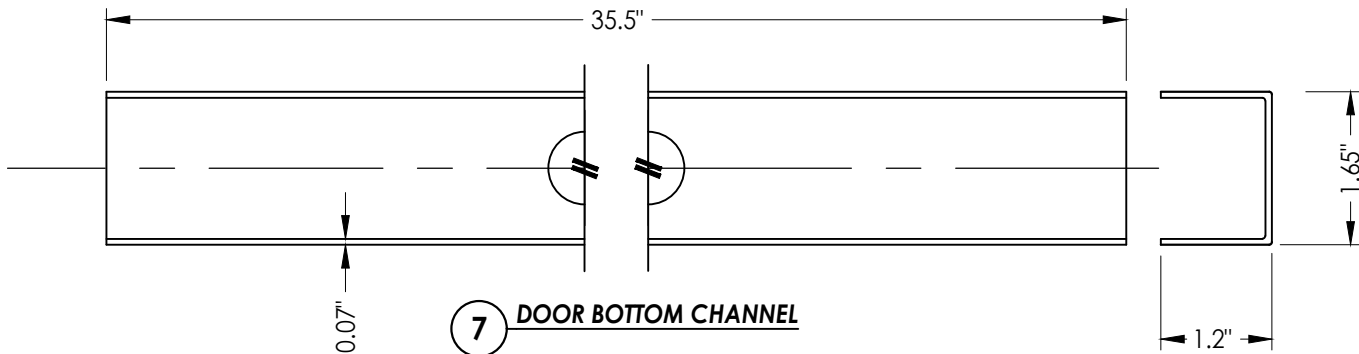
1/2 HORIZONTAL CROSS SECTION



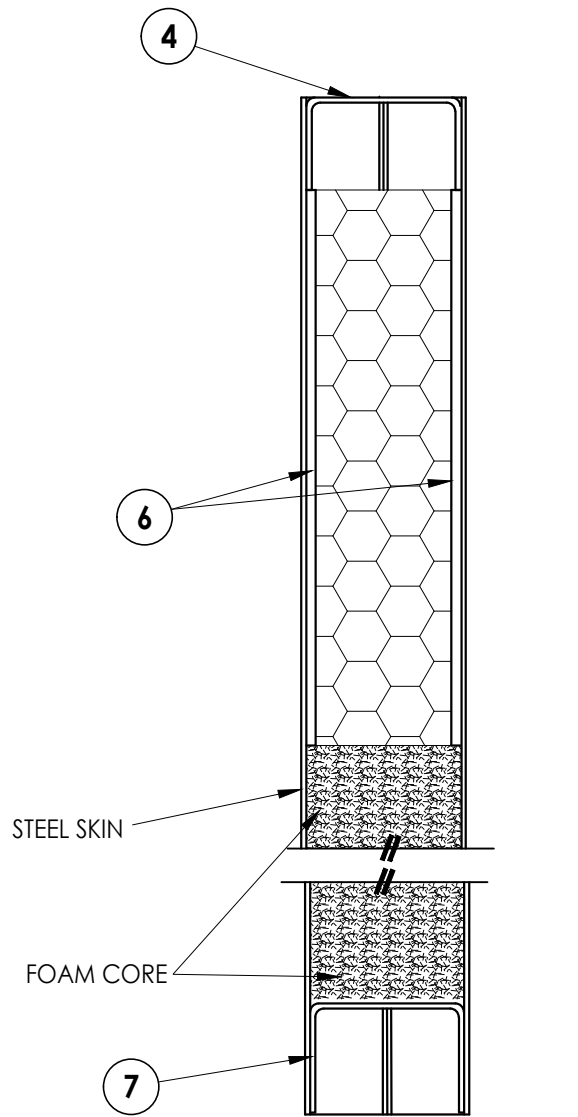
4 DOOR TOP CHANNEL



5 STEEL LOCK BOX REINFORCEMENT
161 Lock prep only



7 DOOR BOTTOM CHANNEL



2/2 VERTICAL CROSS SECTION

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RW BUILDING CONSULTANTS, INC.
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PRODUCT: DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
DOOR PANEL DETAILS

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

DATE: 3/21/22

SCALE: N.T.S.

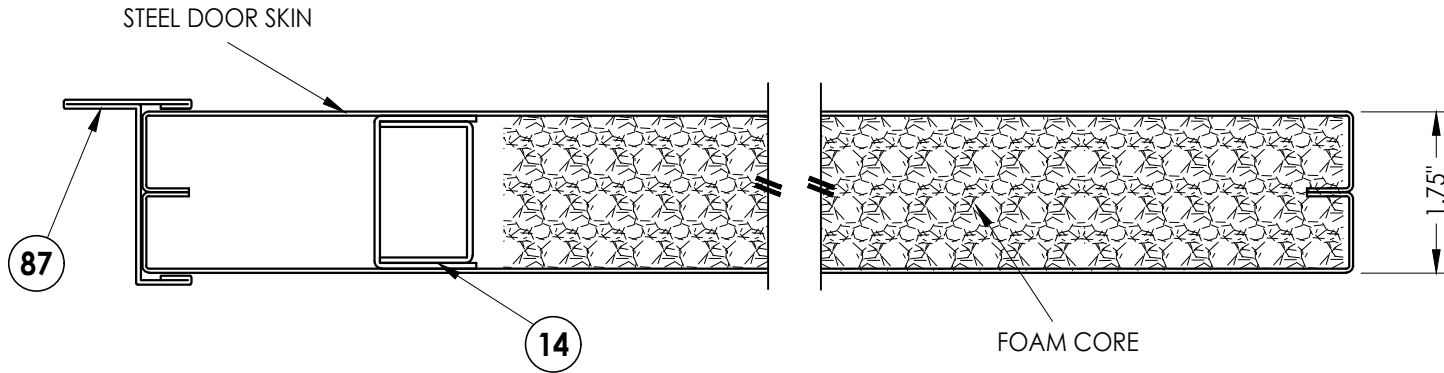
DWG. BY: LFS

CHK. BY: RW

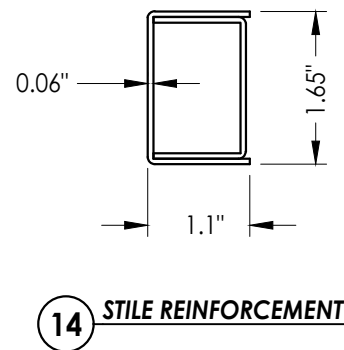
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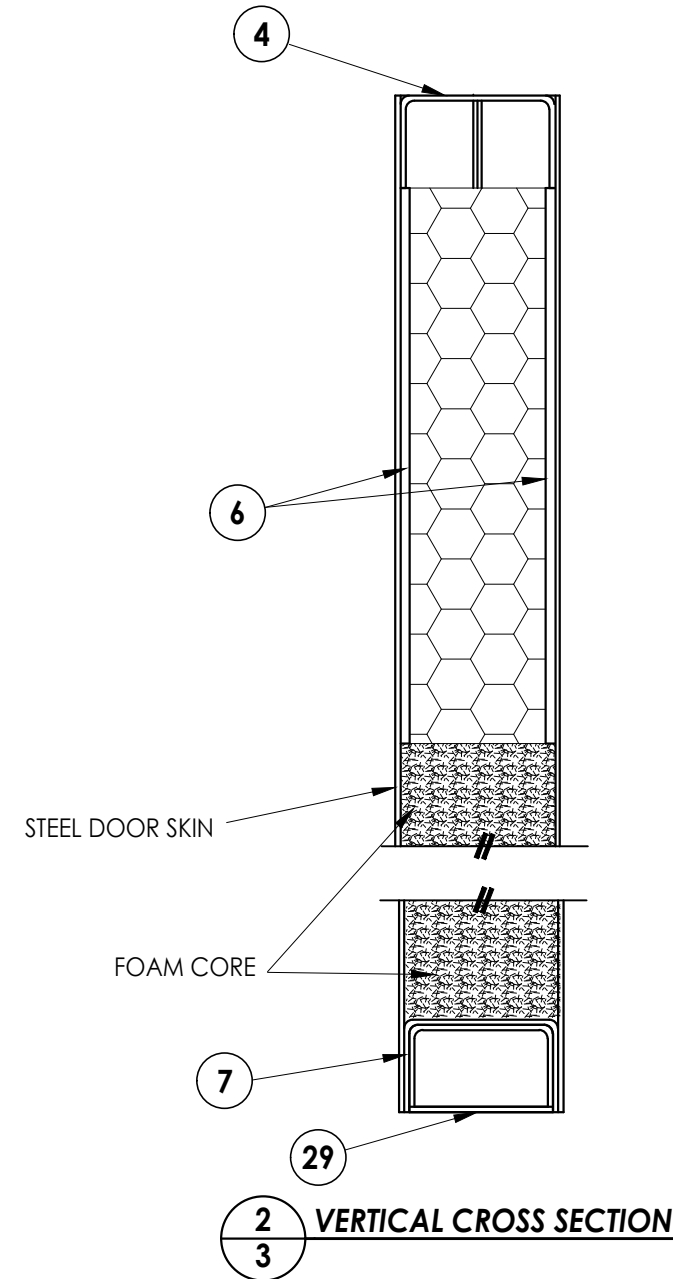
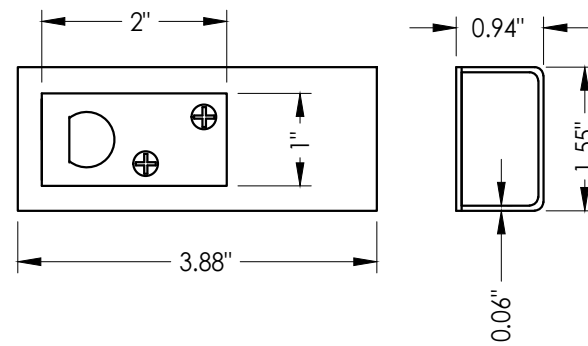
SHEET 2 OF 9



1 **HORIZONTAL CROSS SECTION**
3



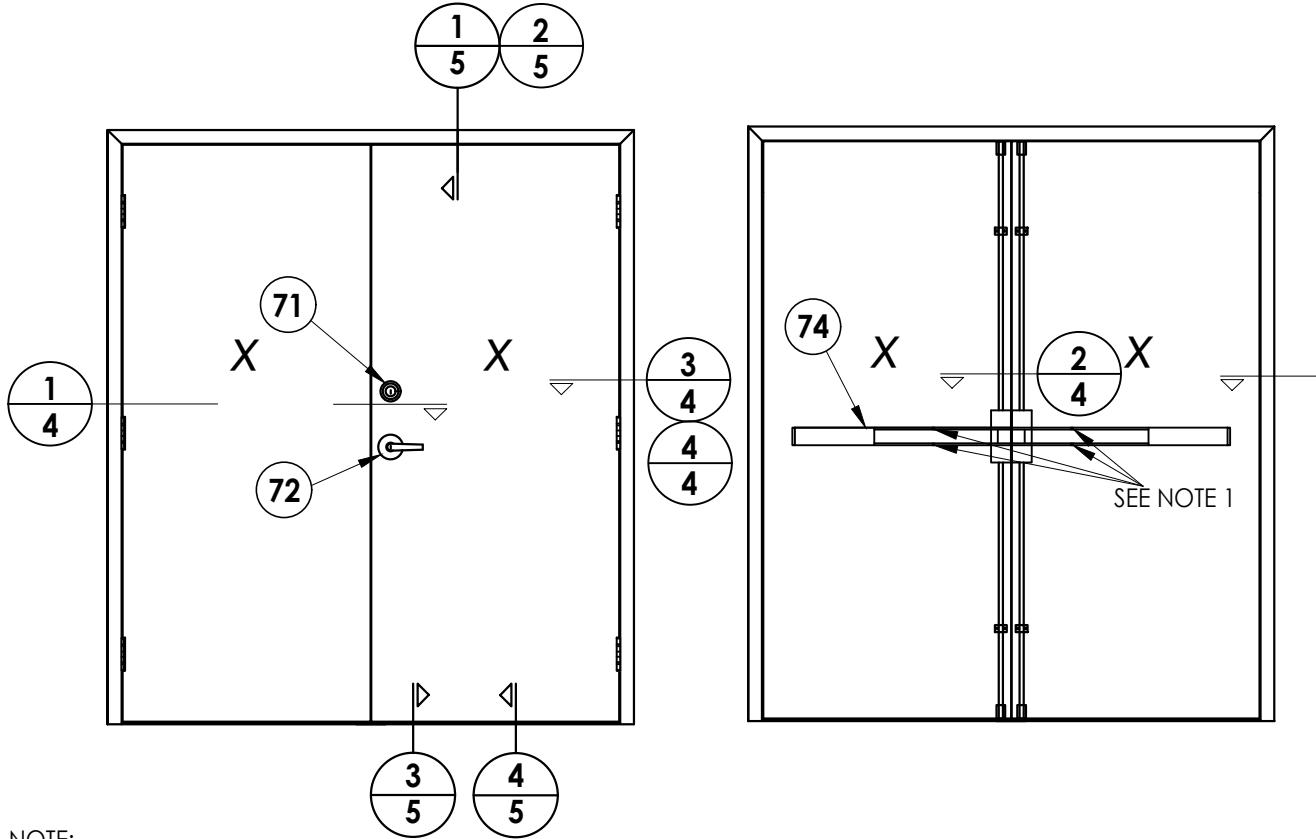
29 DOOR BOTTOM REINFORCEMENT



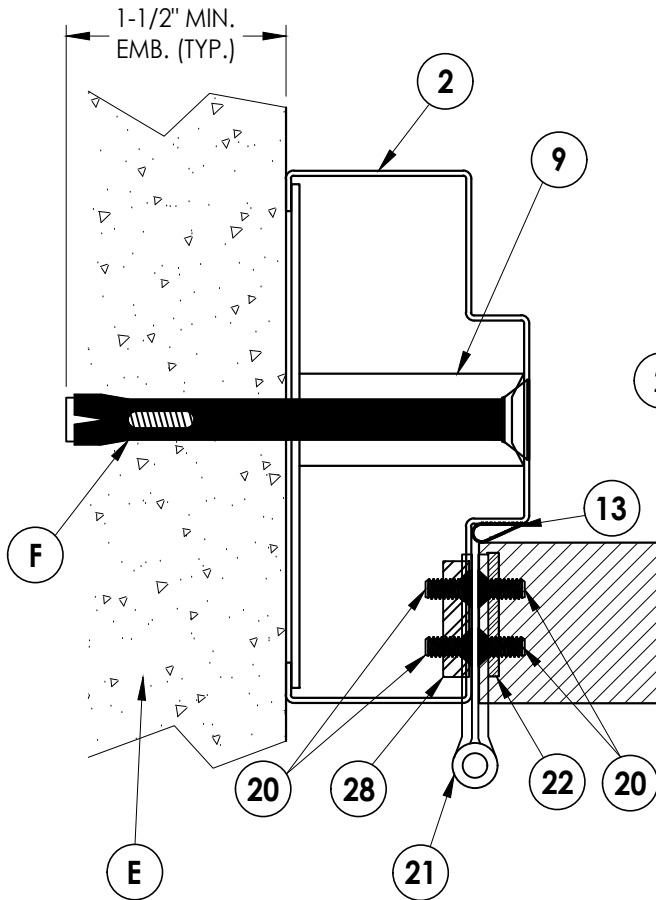
2 VERTICAL CROSS SECTION

[illegible]

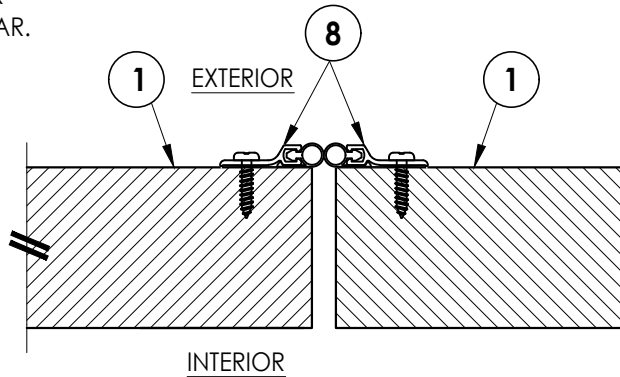
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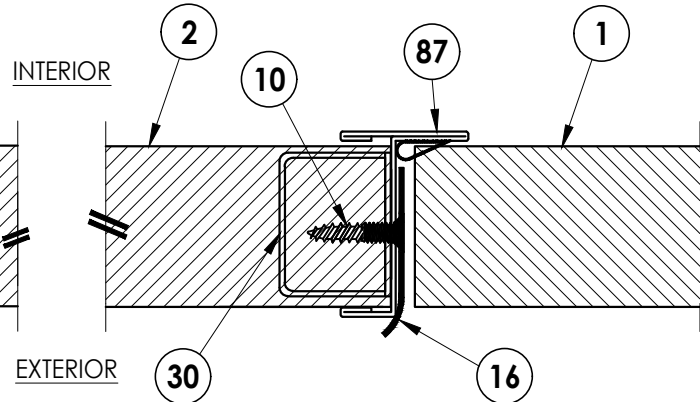
NOTE:
1. PANIC BAR SET SCREWS (#12-24 x 5/16") MUST BE ACTIVATED TO ACHIEVE IMPACT RATING. LOCATE ONE SCREW AT TOP AND BOTTOM AT CENTER OF EACH PUSH RAIL OR LOCATE ONE SCREW AT EACH END OF EACH BAR.



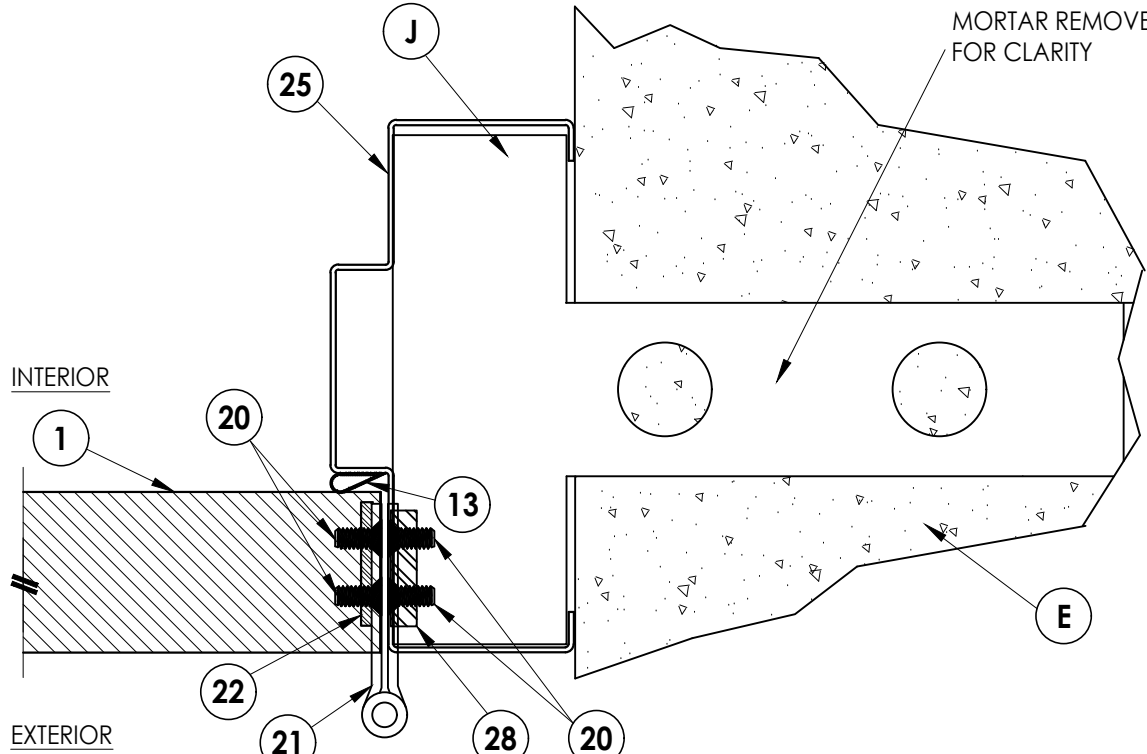
1
4
HORIZONTAL CROSS SECTION



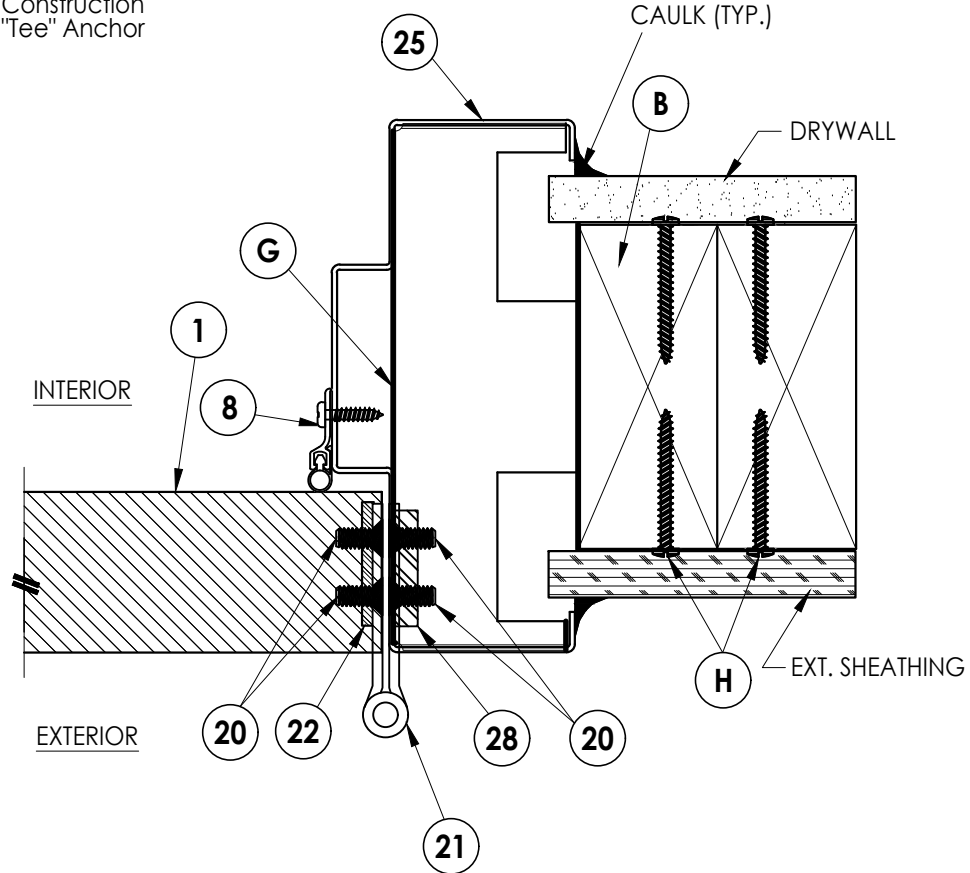
2
4
HORIZONTAL CROSS SECTION



3
4
HORIZONTAL CROSS SECTION



3
4
HORIZONTAL CROSS SECTION
Masonry Construction
Masonry "Tee" Anchor



4
4
HORIZONTAL CROSS SECTION
2X Stud Construction
Wood Stud Anchor

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FBPE Registry No. 9813

PRODUCT:
DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

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

DATE: 3/21/22

SCALE: N.T.S.

DWG. BY: LFS

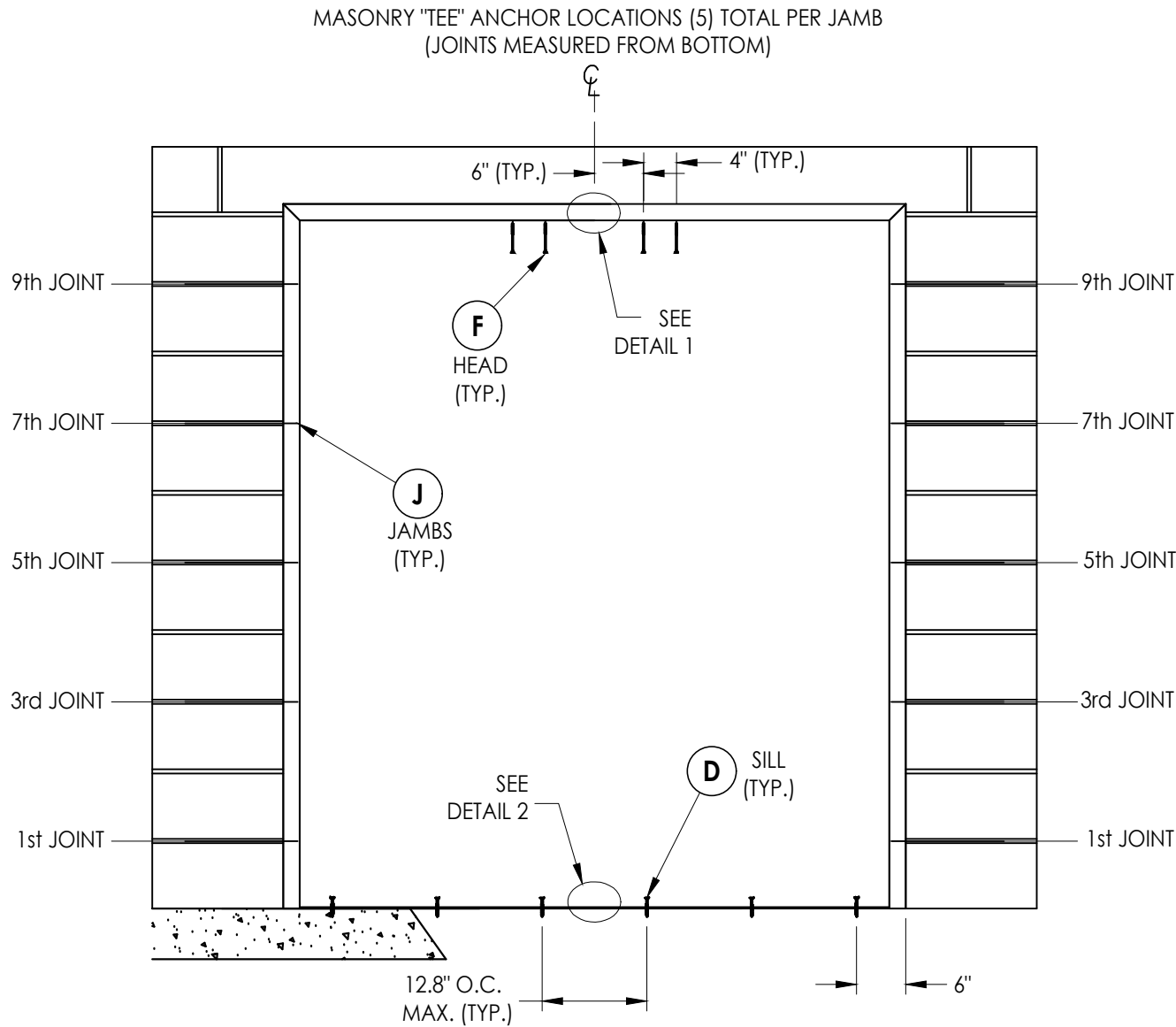
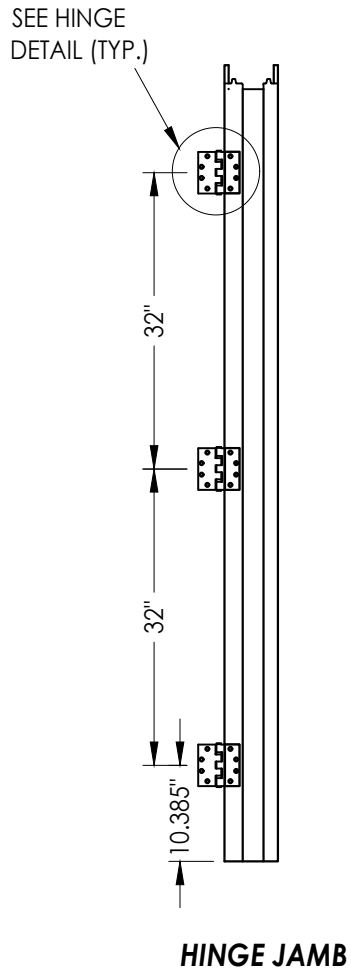
CHK. BY: RW

DRAWING NO.:

FL-41130.6

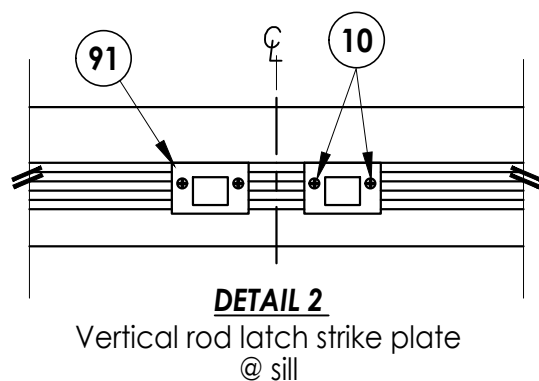
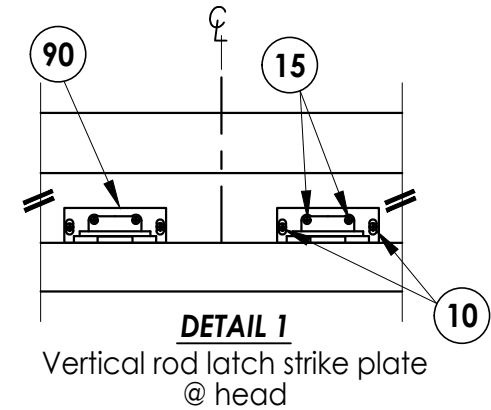
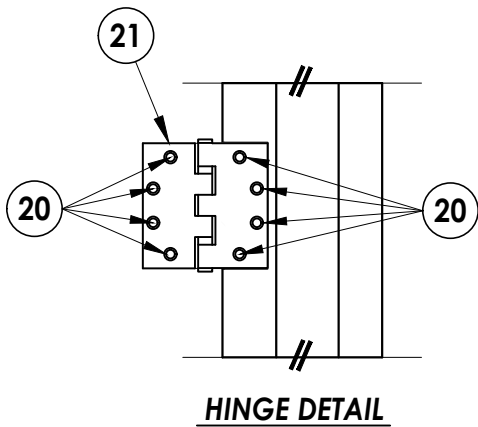
SHEET 4 OF 9

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FRAME ANCHORING

Masonry Construction
Masonry "Tee" Anchors



CONCRETE ANCHOR NOTES:

- Substitution of equal concrete screws from a different supplier may have different edge distance and center distance requirements.
- 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.
- Concrete anchor table:

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

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PRODUCT: DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
FRAME ANCHORING

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

DATE: 3/21/22

SCALE: N.T.S.

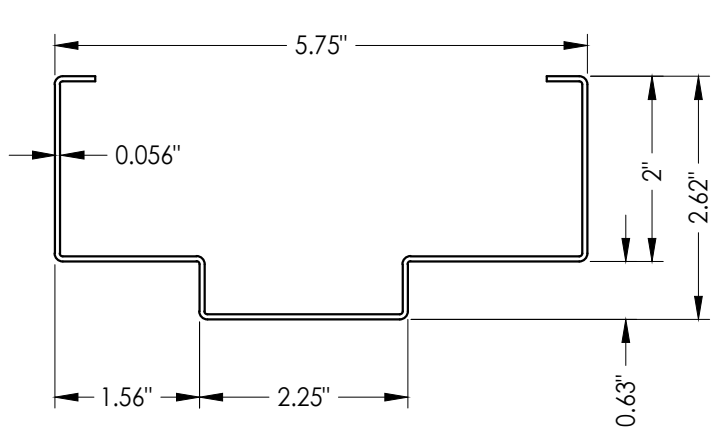
DWG. BY: LFS

CHK. BY: RW

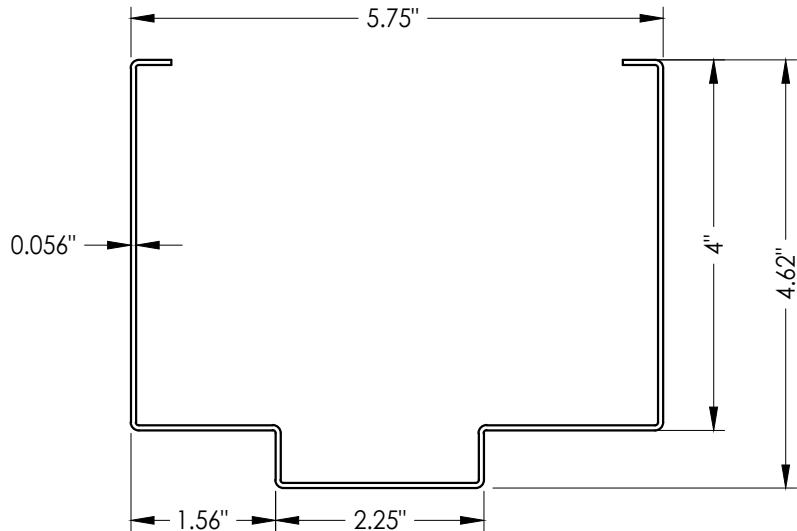
DRAWING NO.: FL-41130.6

SHEET 7 OF 9

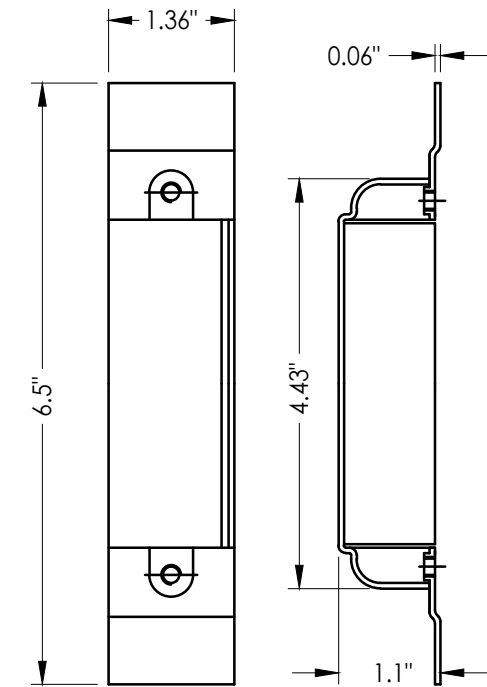
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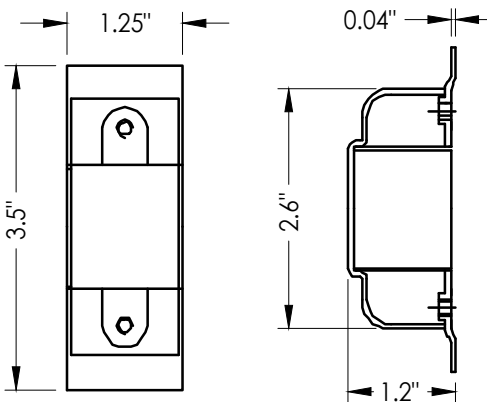
26 HOLLOW METAL FRAME
2" HEAD



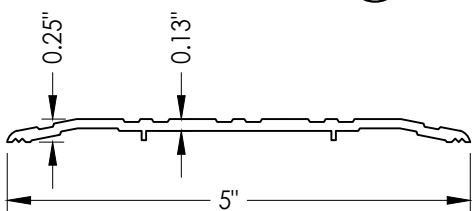
26 HOLLOW METAL FRAME
4" HEAD



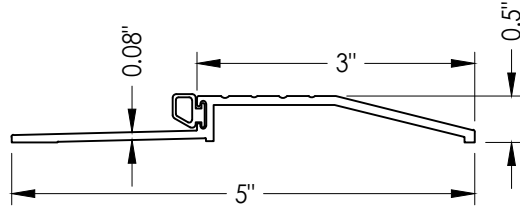
30 DOOR LATCH REINFORCEMENT



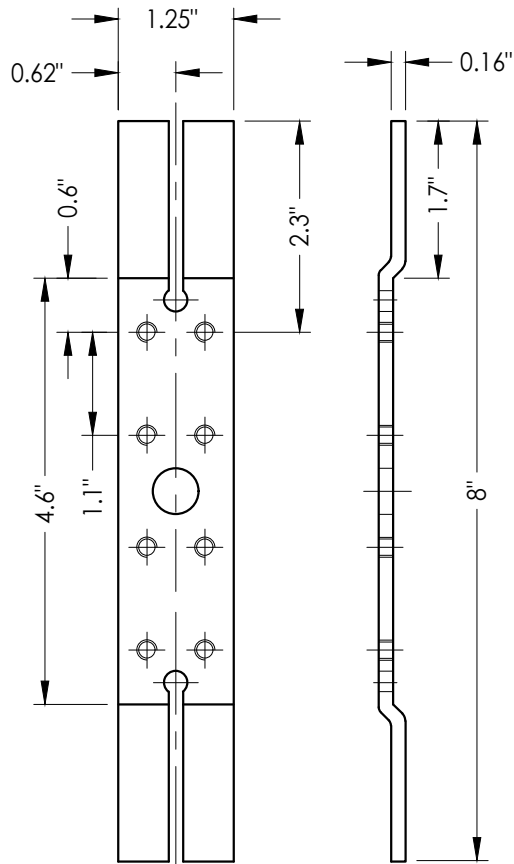
31 DOOR DEADBOLT REINFORCEMENT



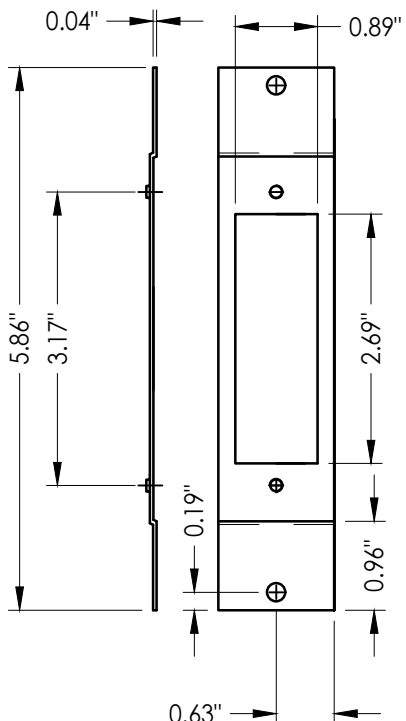
41 THRESHOLD
Pemko 271



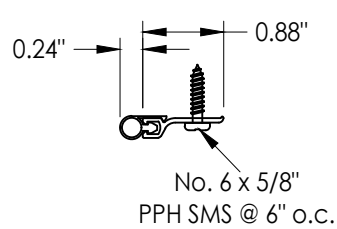
42 THRESHOLD
Pemko 2001P



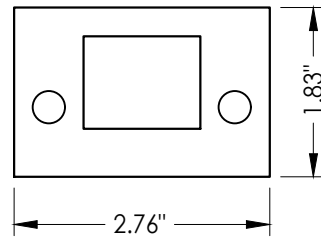
22 DOOR HINGE REINFORCEMENT



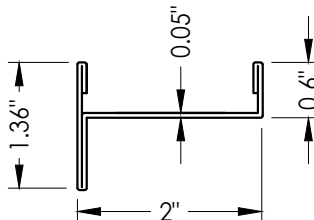
27 FRAME LATCH STRIKE REINFORCEMENT



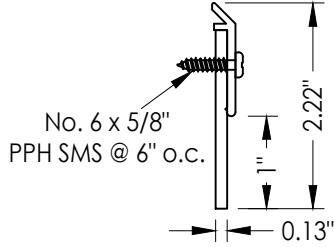
8 WEATHERSTRIP
Pemko 303A



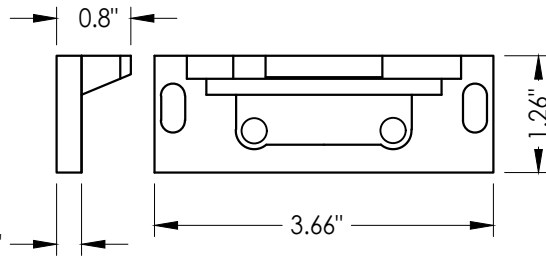
91 VERTICAL ROD LATCH STRIKE PLATE
@ Sill



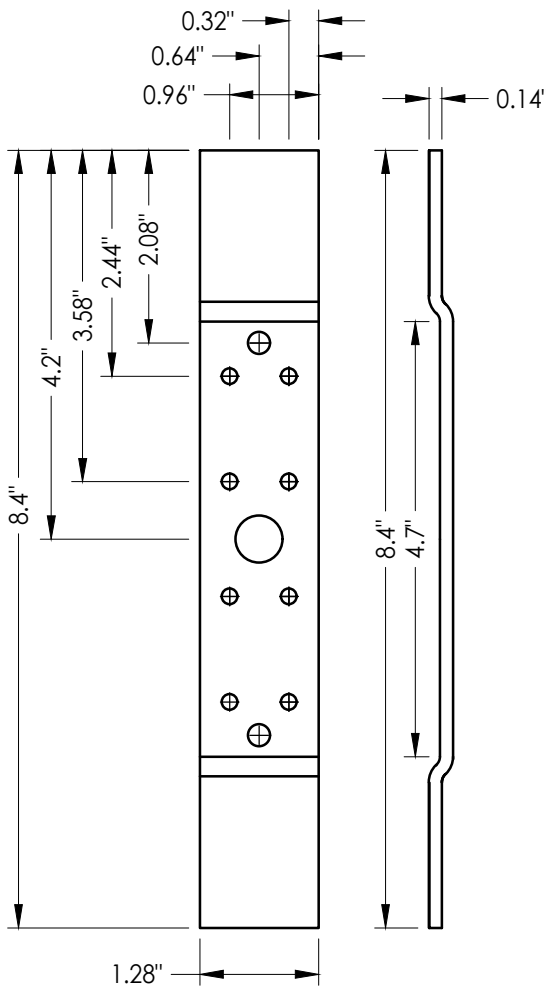
87 ASTRAGAL



11 DOOR SWEEP
Pemko 3151



90 VERTICAL ROD LATCH STRIKE PLATE
@ Head



28 FRAME HINGE REINFORCEMENT

Documents Prepared By:
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P.E. No. 43409

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P.O. Box 230, Vairico, FL 33595
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FBPE Registry No. 9813

PRODUCT:
DKS
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
COMPONENTS

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

DATE: 3/21/22

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.: FL-41130.6

SHEET 8 OF 9

