



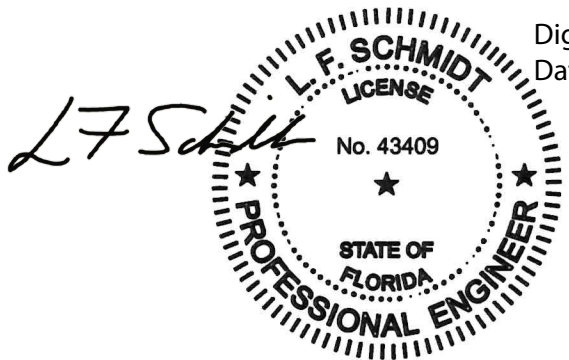
6605 Flotilla Street
City of Commerce
CA 90040

"7700-V Series"
FIRE EXIT DEVICE
in a
STEEL COMMERCIAL DOOR
OUTSWING
"IMPACT"

GENERAL NOTES

1. This product has been evaluated and is in compliance with the 9th Edition (2026) 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 includes Wind Zone 4 as defined in ASTM E1996.
4. This product has been tested in the door panels as specified in this approval. Substitution into a similar product may be approved for use by the local Authority Having Jurisdiction. In all cases, the steel door used must possess a comparable current Florida Statewide product approval. The door panel size and design pressure (DP) rating shall not exceed the sizes and DP ratings shown in this approval or the steel side hinged swing door approval being used.
5. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

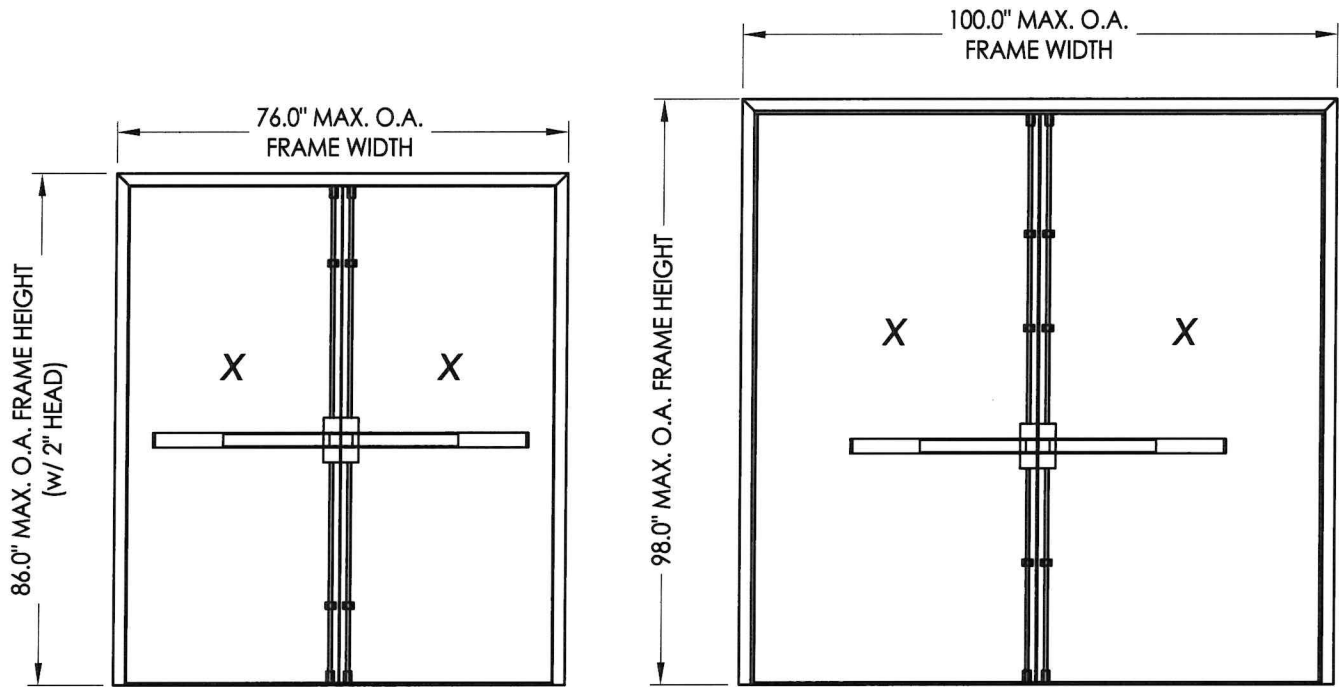
TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	"7700-V Series" details
3	Door panel details (7' door panel)
4	Door panel details (8' door panel)



Digitally signed by Lyndon F Schmidt
Date: 2026.07.20 15:55:31 -04'00'

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



"7700-V Series" Fire Exit Device w/ Vertical Rods
(Shown on double doors, single doors also approved)

CONFIGURATION	MAX FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF) OUTSWING	
			POSITIVE	NEGATIVE
SINGLE	40.0" x 88.0"	"7700-V SERIES" (CAL-ROYAL)	+70.0	-70.0
	52.0" x 98.0"		+50.0	-50.0
DOUBLE	76.0" x 88.0"		+70.0	-70.0
	100.0" x 98.0"		+50.0	-50.0

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: CAL-ROYAL
LOCK AND DEADBOLT

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

NO.	DATE	BY	REVISIONS		
9	7/02/26	LFS	UPDATE TO 9TH ED. (2026)	FBC	LFS
8	7/05/23	LFS	UPDATE TO 8TH ED. (2023)	FBC	LFS
7	11/16/20	LFS	UPDATE TO 7TH ED. (2020)	FBC	LFS

DATE: 7/7/10

SCALE: N.T.S.

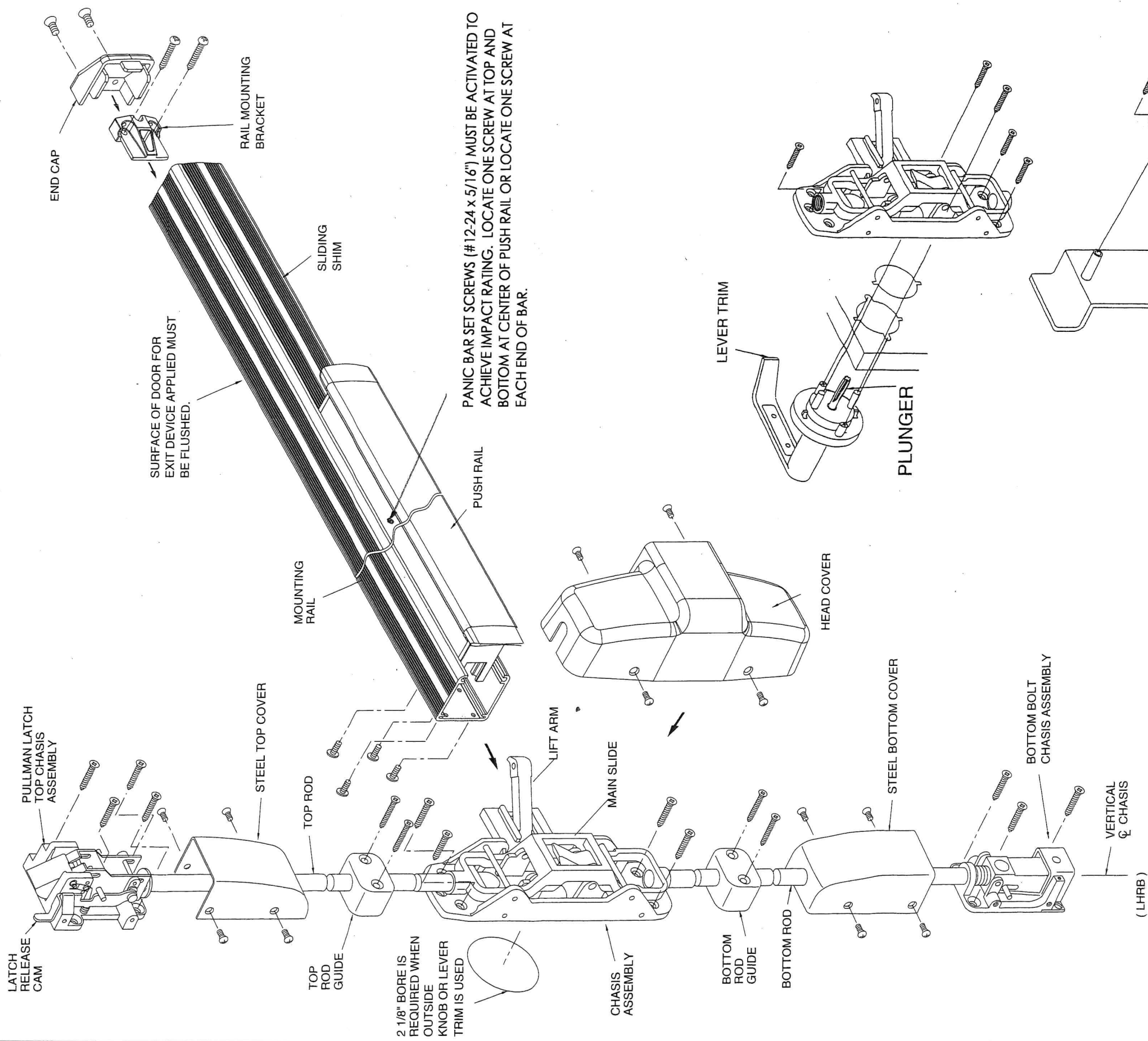
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-13922.4

SHEET 1 OF 4



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.

OPTIONAL LATCH DETAILS

CHASIS MOUNTING SCREWS

DATE:		7/7/10
SCALE:		N.T.S.
DWG. BY:		JK
CHK. BY:		LFS
DRAWING NO.:		FL-13922.4
SHEET		2 OF 4
PRODUCT:		CAL-ROYAL STEEL COMMERCIAL DOOR
PART OR ASSEMBLY:		"7700-V SERIES" DETAILS
REVISIONS		
NO.	DATE	BY
9	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
8	7/05/23	UPDATE TO 8TH ED. (2023) FBC LFS
7	11/16/20	UPDATE TO 7TH ED. (2020) FBC LFS

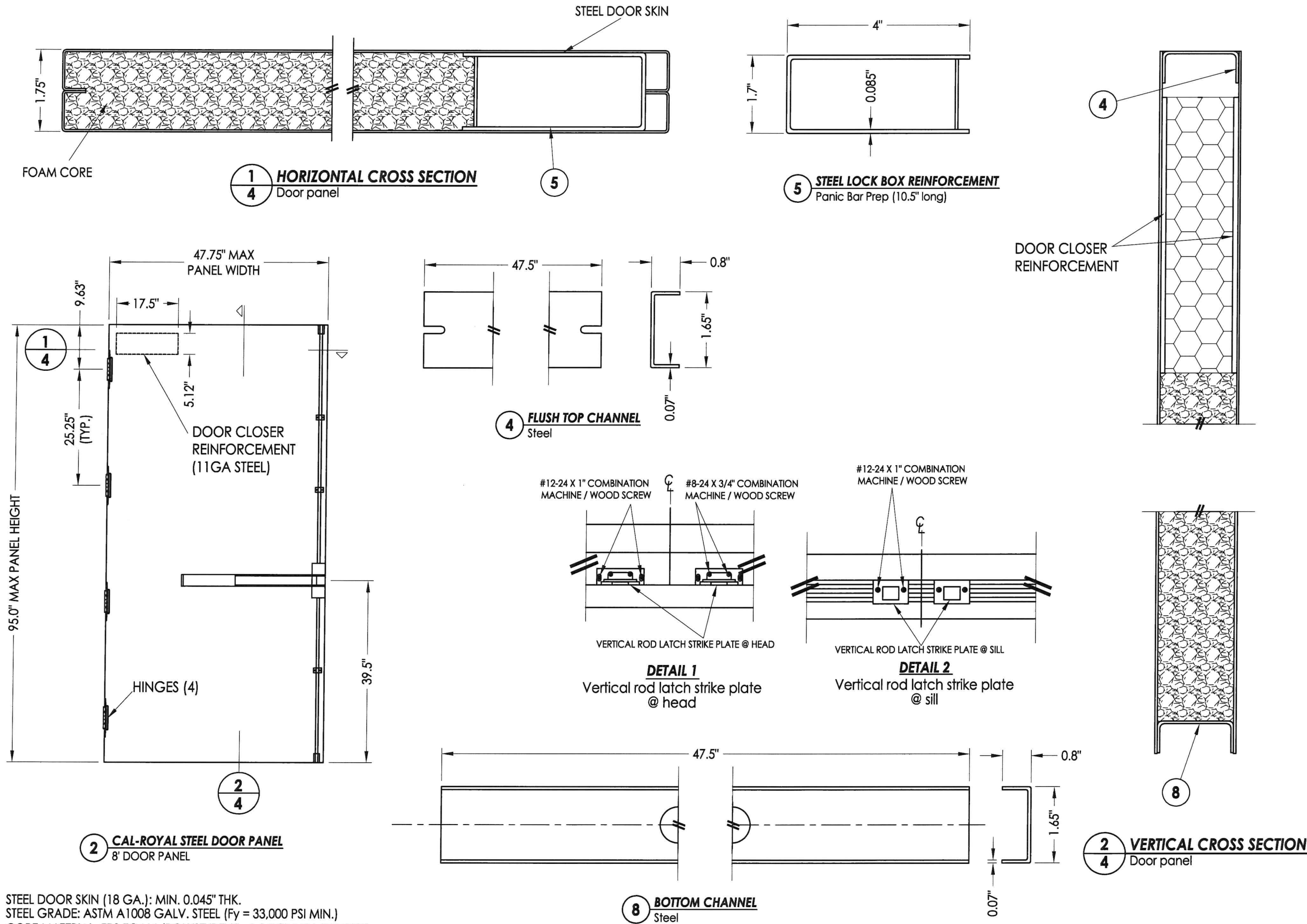
Documents Prepared By:
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STEEL DOOR SKIN (18 GA.): MIN. 0.045" THK.
STEEL GRADE: ASTM A1008 GALV. STEEL (Fy = 33,000 PSI MIN.)
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)

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: CAL-ROYAL STEEL COMMERCIAL DOOR		PART OR ASSEMBLY: DOOR, PANEL DETAILS (8' door panel)	
9	7/02/26	UPDATE TO 9TH ED. (2026)	FBC LFS
8	7/05/23	UPDATE TO 8TH ED. (2023)	FBC LFS
7	11/16/20	UPDATE TO 7TH ED. (2020)	FBC LFS
NO.	DATE	REVISIONS	
DATE: 5/25/10			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-13922.4			
SHEET 4 OF 4			