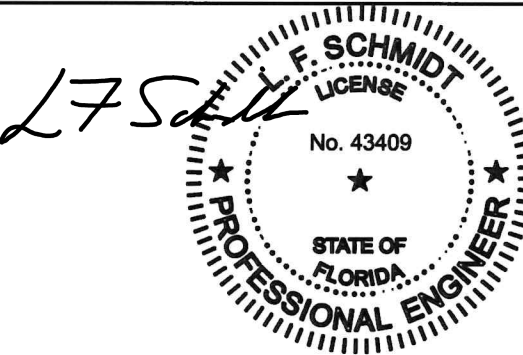




"7700-V Series"
FIRE EXIT DEVICE
in a
STEEL COMMERCIAL DOOR
OUTSWING
"IMPACT"

1. This product has been evaluated and is in compliance with the 9th Edition (2026) 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. 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.
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.

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)

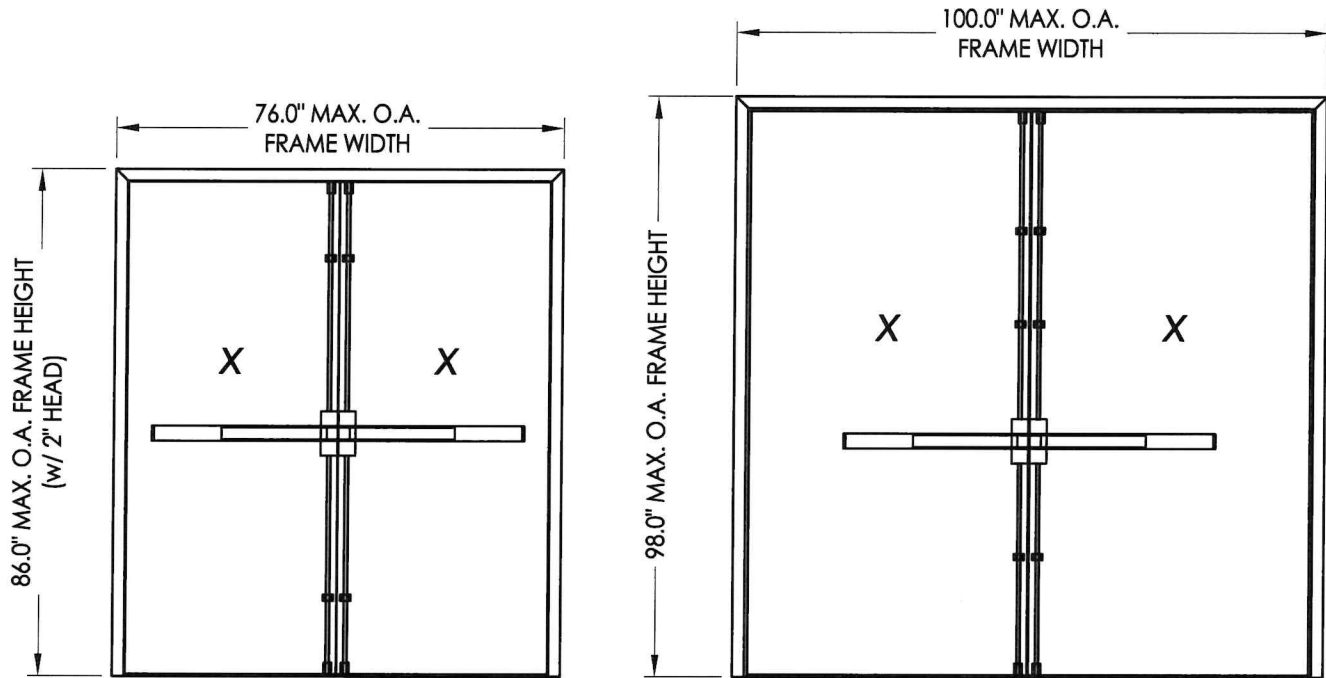


Digitally signed by Lyndon F Schmidt
Date: 2026.07.07 07:45:28 -04'00'

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.

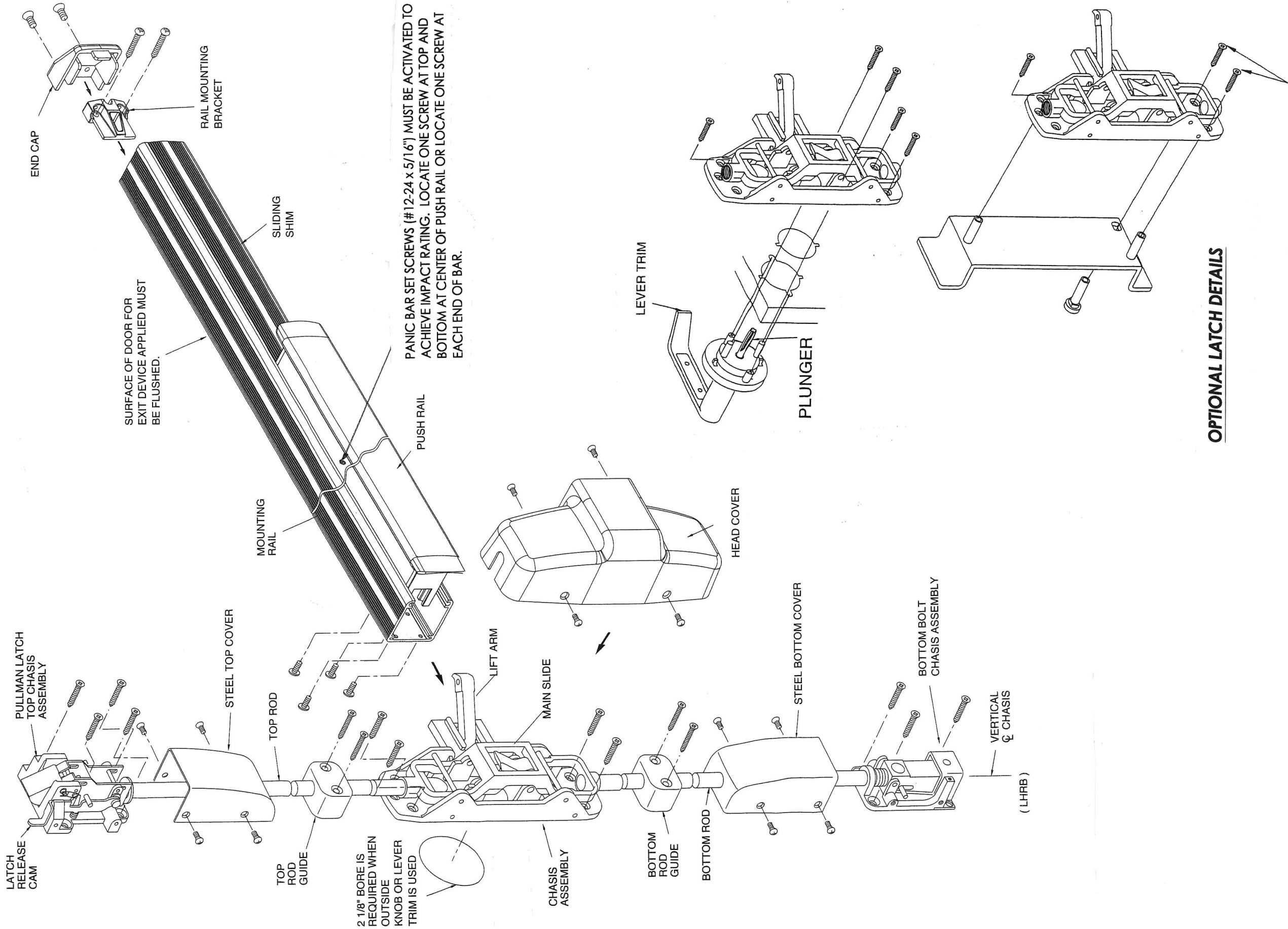
**THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA**



"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

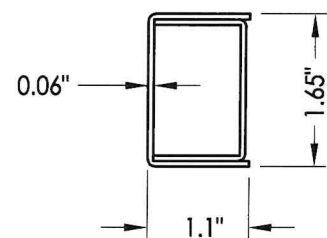
DATE: 5/12/11		DRAWING NO.: FL-13922.8		SHEET 1 OF 4	
SCALE: N.T.S.		CHK. BY: LFS		DWG. BY: JK	
NO.		DATE		REVISONS	
7	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS	
6	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
5	11/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS	
				BY	
PRODUCT: CAL-ROYAL LOCK AND DEADBOLT PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES					
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409			<i>R^{qW}</i> BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813		



OPTIONAL LATCH DETAILS

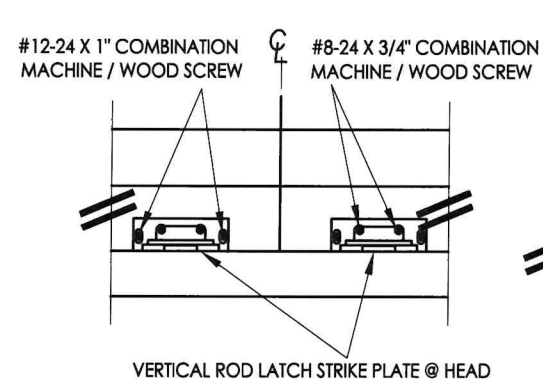
CHASIS MOUNTING SCREWS

DATE: 5/12/11		SCALE: N.T.S.		DWG. BY: JK		CHK. BY: LFS		DRAWING NO.: FL-13922.8		SHEET 2 OF 4	
NO.		DATE		REVISIONS		BY		PART OR ASSEMBLY:		PRODUCT:	
7	7/02/26	UPDATE TO 9TH ED. (2026)	FBC	LFS				CAL-ROYAL		STEEL COMMERCIAL DOOR	
6	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS				"7700-V SERIES" DETAILS		Documents Prepared By:	
5	11/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS				P.O. Box 230, Valrico, FL 33595		Lyndon F. Schmidt	
								P.E. No. 43409		Building Consultants, Inc.	
								Phone No.: 813.659.9197		P.O. Box 230, Valrico, FL 33595	
								FBPE Registry No. 9813		R.W.	

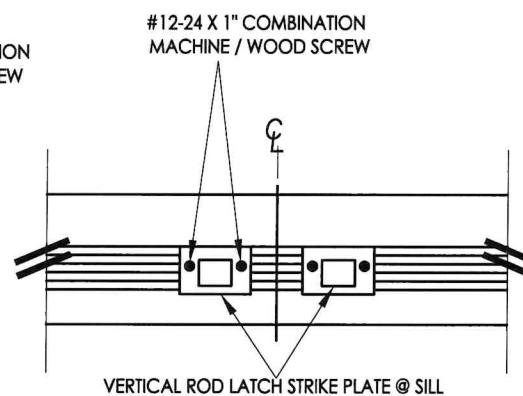


STILE REINFORCEMENT

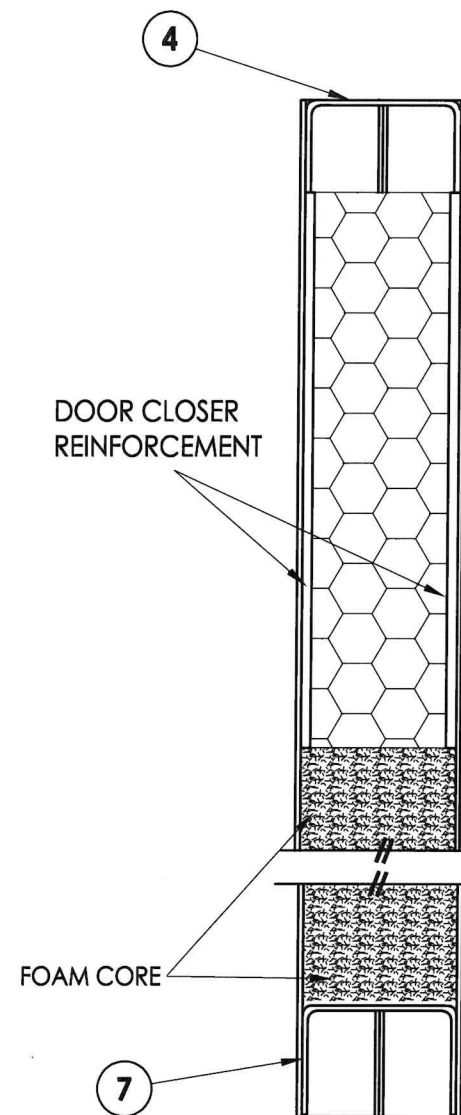
1 **HORIZONTAL CROSS SECTION**
3



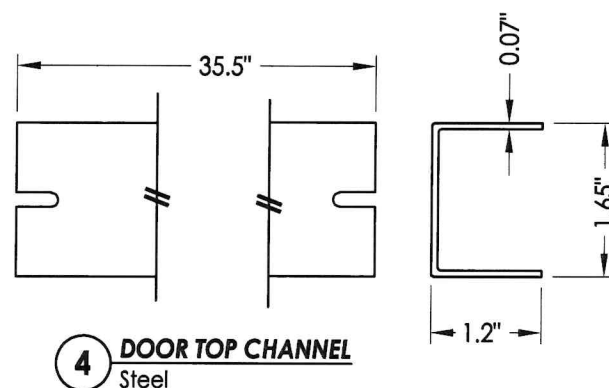
DETAIL 1
Vertical rod latch strike plate
@ head



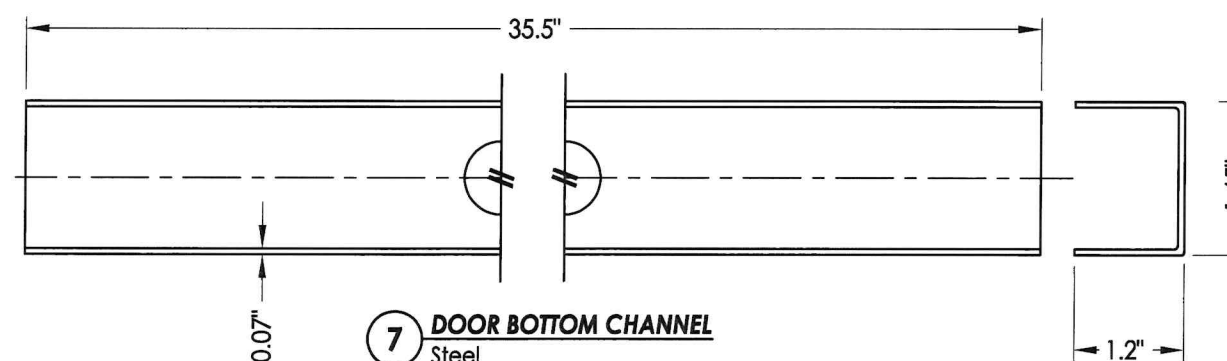
DETAIL 2
Vertical rod latch strike plate
@ sill



2 VERTICAL CROSS SECTION



4 DOOR TOP CHANNEL
Steel

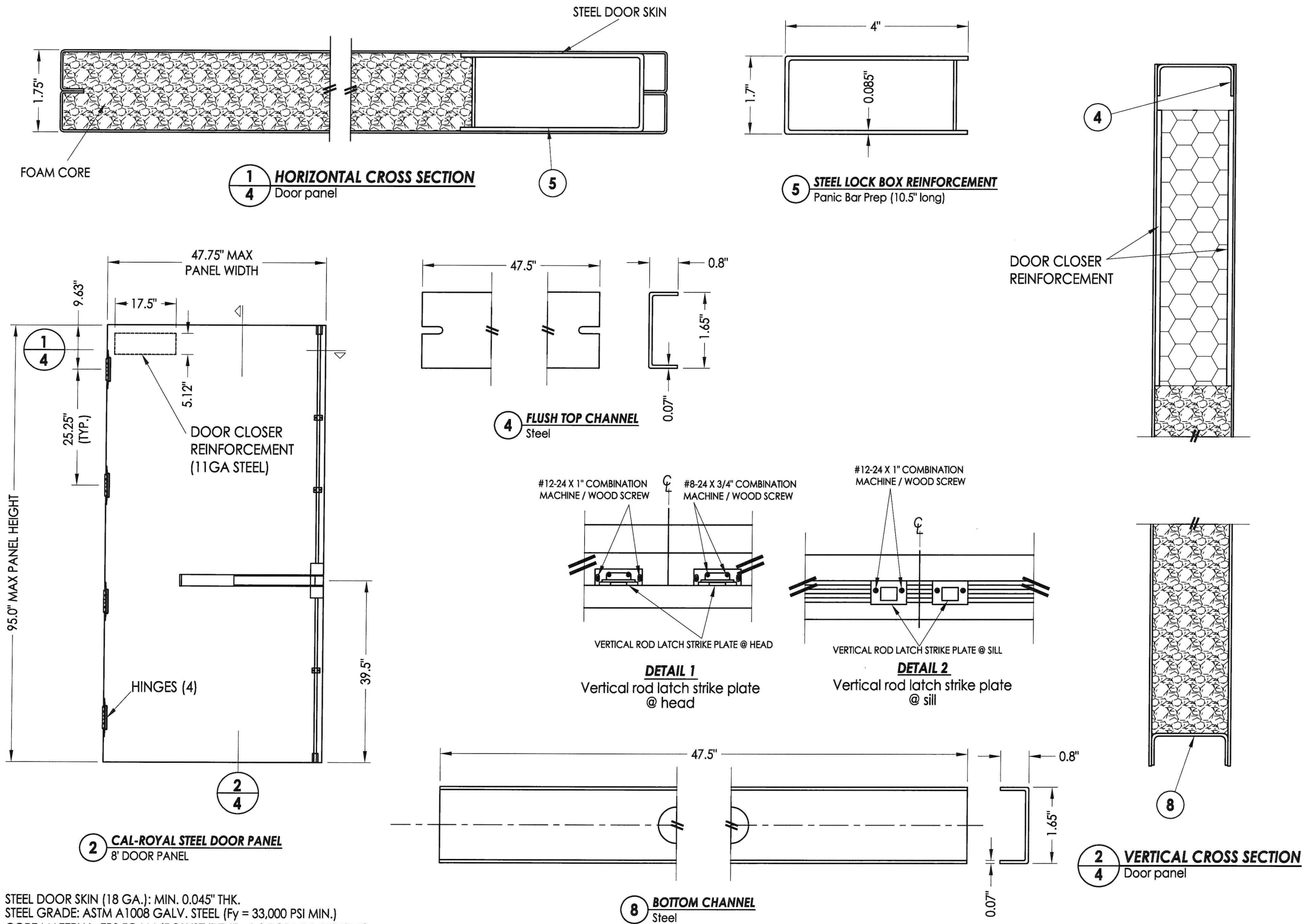


7 DOOR BOTTOM CHANNEL
Steel

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)

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Z:\2023 FBC Drawings\CAL-ROYAL\FL-13922 R9\FL-13922.7-8.dwg



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

RW 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)	
NO.	DATE	REVISIONS	
		LFS	BY
7	7/02/26	UPDATE TO 9TH ED. (2026) FBC	
6	7/05/23	UPDATE TO 8TH ED. (2023) FBC	
5	11/16/20	UPDATE TO 7TH ED. (2020) FBC	

DATE: 5/12/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-13922.8

SHEET 4 OF 4