



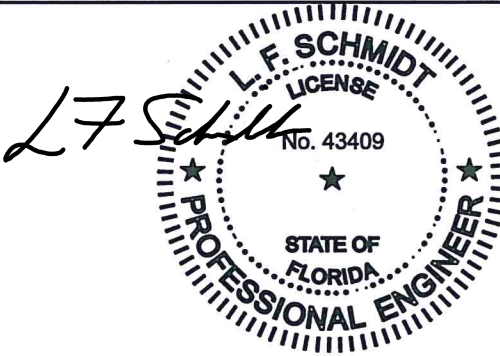
6605 Flotilla Street
City of Commerce
CA 90040

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

GENERAL NOTES

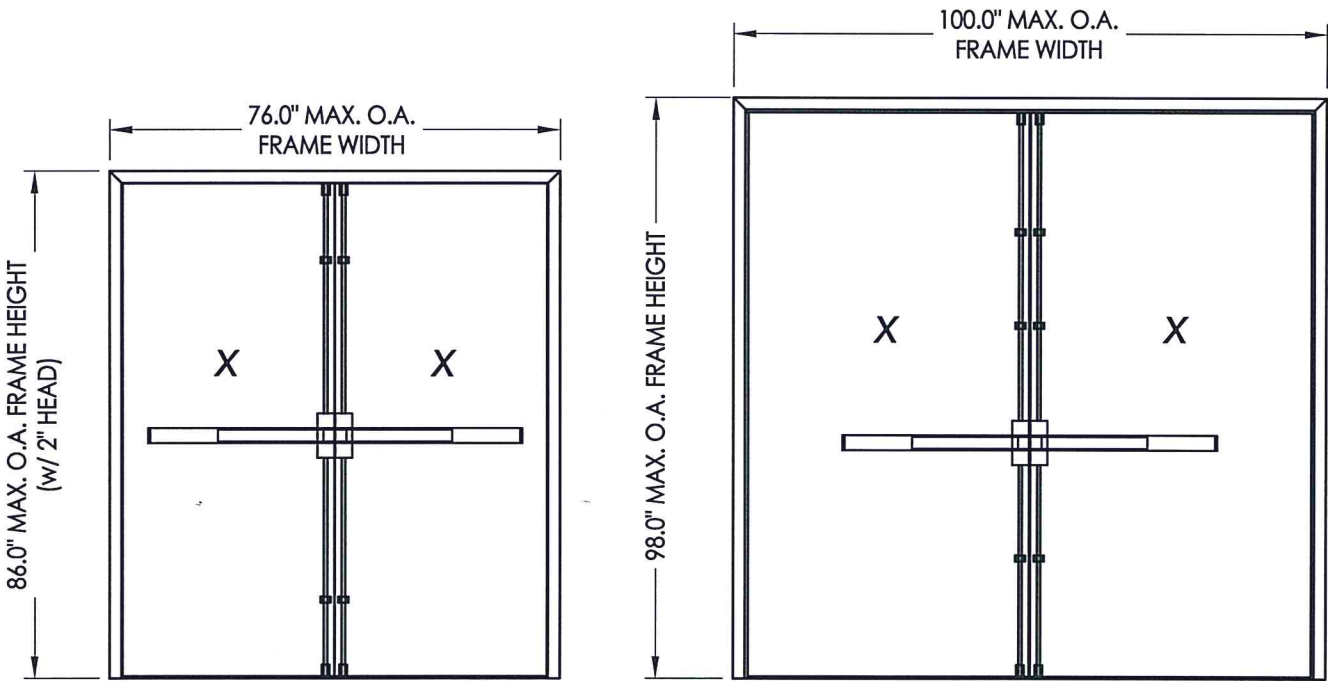
1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements including the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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. This product has been tested in the door panels as specified in this approval. Substitution into a similar roduct 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)



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

CAL-ROYAL
LOCK AND DEADBOLT

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

LFS	FBC	UPDATE TO	8TH ED. (2023)	FBC	LFS	FBC	UPDATE TO	7TH ED. (2020)	FBC	LFS	FBC	UPDATE TO	6TH ED. (2017)	FBC	LFS	FBC	UPDATE TO	5TH ED. (2014)	FBC	LFS	FBC	UPDATE TO	4TH ED. (2011)	FBC			
6	7/05/23	UPDATE TO	8TH ED. (2023)	FBC	5	11/16/20	UPDATE TO	7TH ED. (2020)	FBC	4	9/27/17	UPDATE TO	6TH ED. (2017)	FBC	3	1/27/15	UPDATE TO	5TH ED. (2014)	FBC	2	8/14/14	ADDED	8' DOORS	1	2/14/12	UPDATE TO	2010 FBC
NO.	DATE				NO.	DATE				NO.	DATE				NO.	DATE				NO.	DATE			NO.	DATE		

DATE: 5/12/11

SCALE: N.T.S.

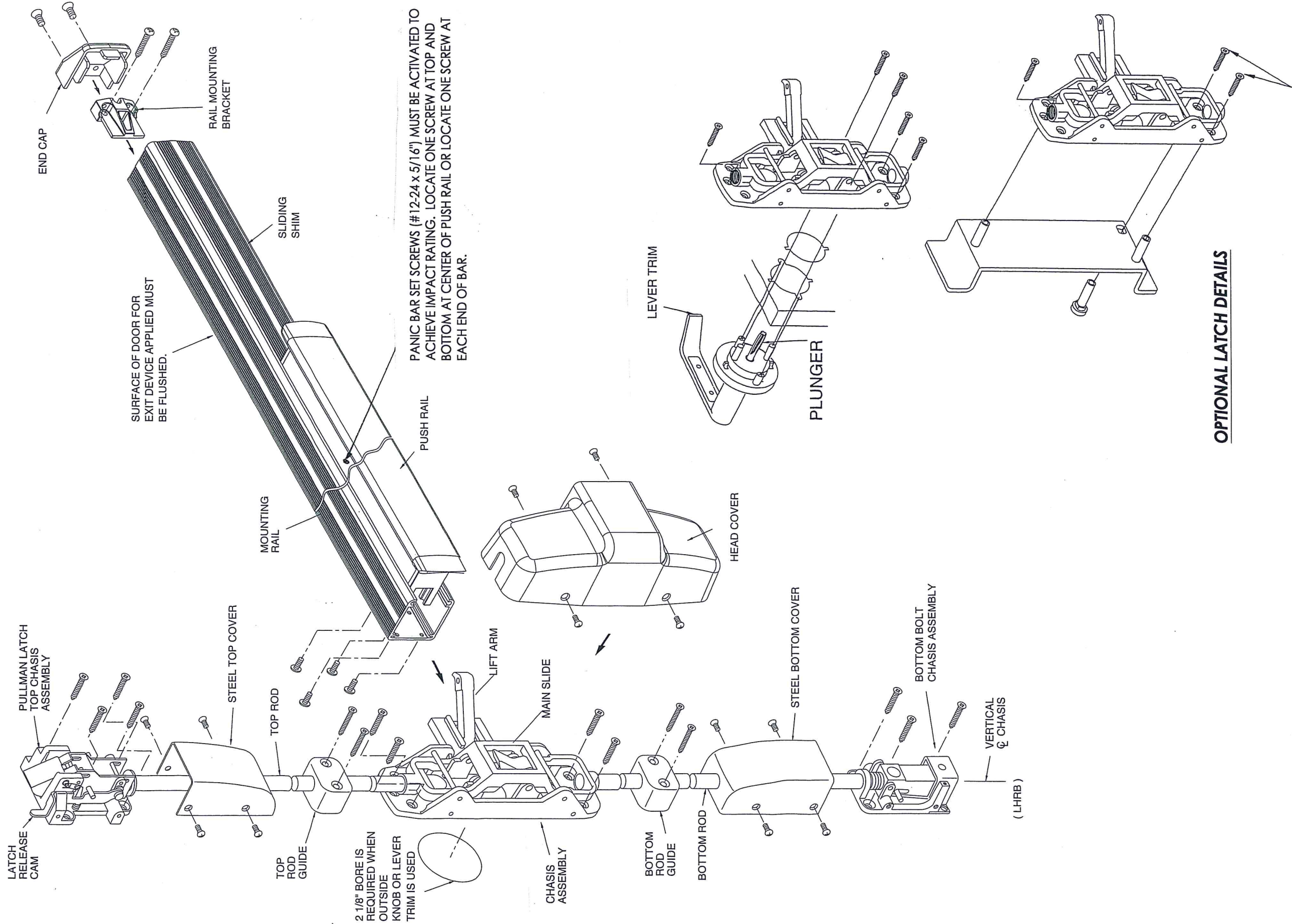
DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-13922.8

SHEET 1 OF 4

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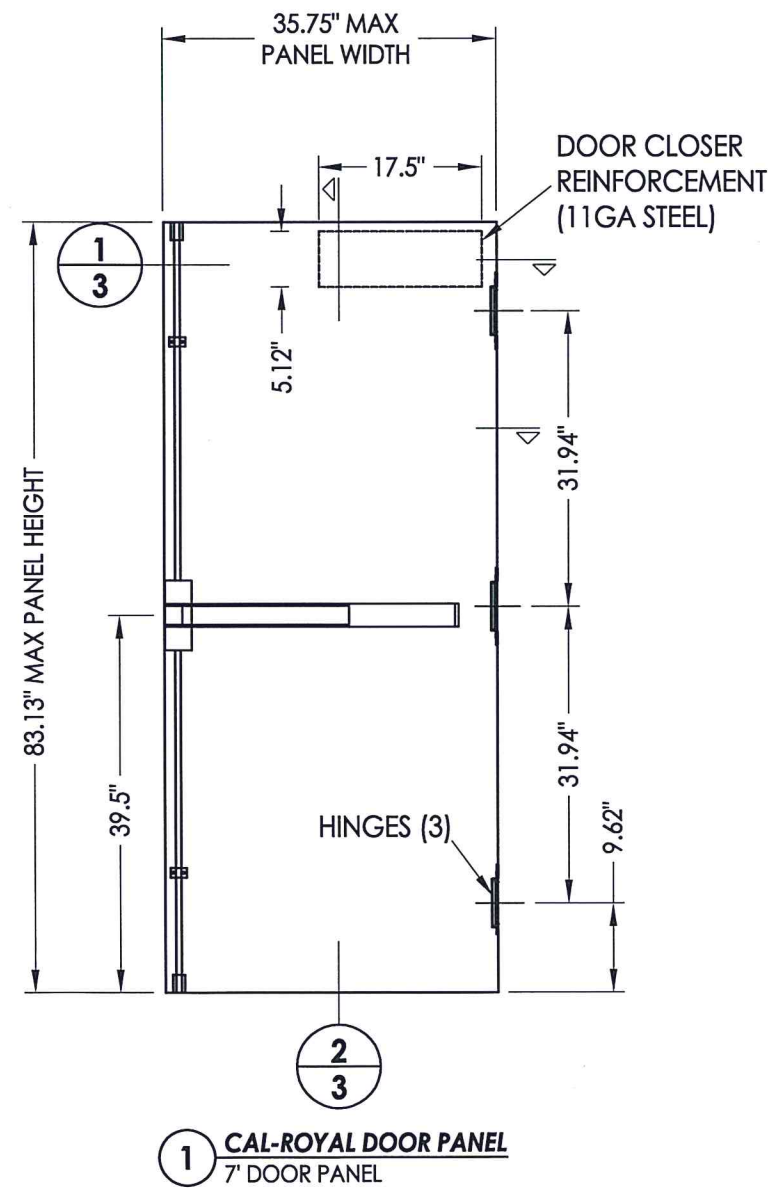


OPTIONAL LATCH DETAILS

CHASIS MOUNTING SCREWS

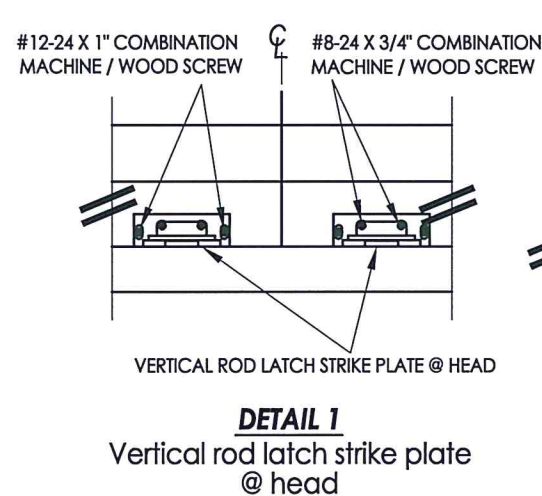
DATE: 5/12/11		REVISIONS		PRODUCT:		Documents Prepared By:	
6	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	CAL-ROYAL STEEL COMMERCIAL DOOR	Lyndon F. Schmidt	
5	11/16/20	UPDATE TO 7TH ED. (2020)	FBC	LFS		P.E. No. 43409	
4	9/27/17	UPDATE TO 6TH ED. (2017)	FBC	JK		<i>RW</i> BUILDING CONSULTANTS, INC.	
3	1/27/15	UPDATE TO 5TH ED. (2014)	FBC	JK			
2	8/14/14	ADDED 8' DOORS		LFS	"7700-V SERIES" DETAILS	P.O. Box 230, Valrico, FL 33595	
1	2/14/12	UPDATE TO 2010 FBC		JK		Phone No.: 813.659.9197	
NO.	DATE			BY		FBPE Registry No. 9813	

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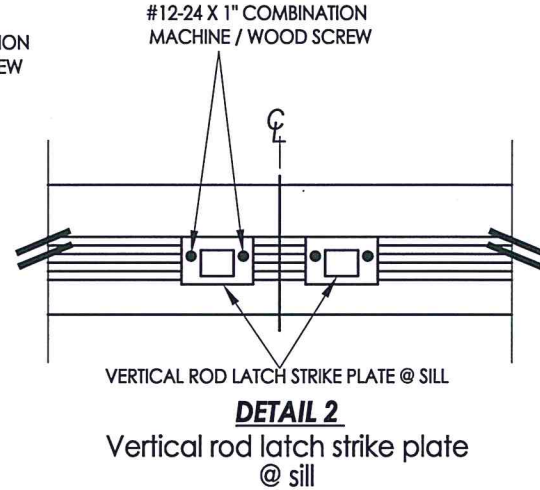


STEEL DOOR SKIN (18 GA.): MIN. 0.045" THK.
STEEL GRADE: ASTM A1008 GALV. STEEL ($F_y = 33,000$ PSI MIN.)
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)

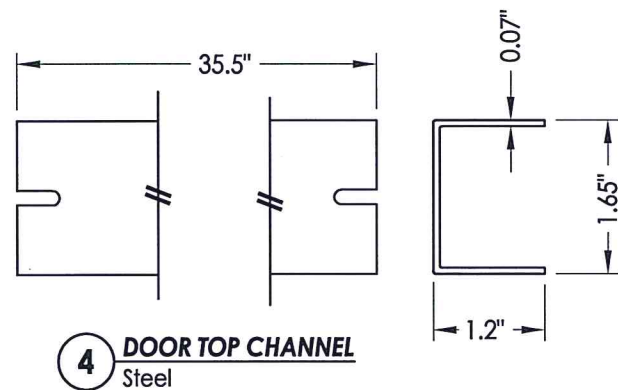
1
3 HORIZONTAL CROSS SECTION



DETAIL 1
Vertical rod latch strike plate
@ head

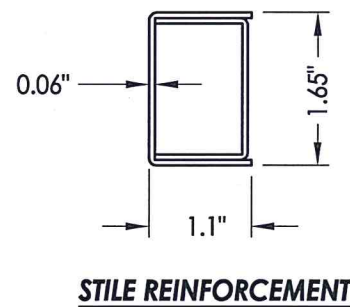


DETAIL 2
Vertical rod latch strike plate
@ sill

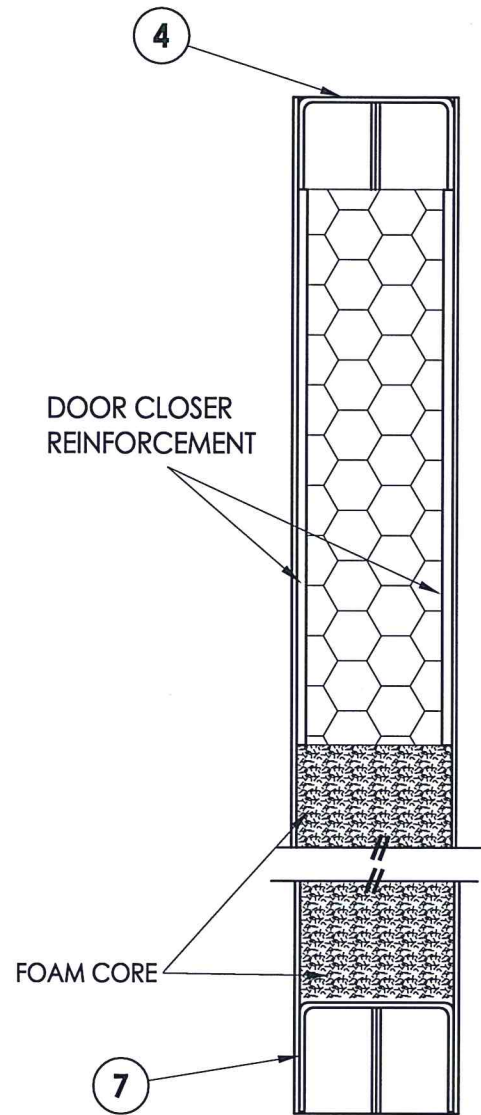


4 DOOR TOP CHANNEL
Steel

7 DOOR BOTTOM CHANNEL
Steel



STILE REINFORCEMENT



2
3 VERTICAL CROSS SECTION

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

CAL-ROYAL
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
DOOR, PANEL DETAILS
(7' door panel)

NO.	DATE	REVISIONS
6	7/07/23	UPDATE TO 8TH ED. (2023) FBC
5	11/16/20	UPDATE TO 7TH ED. (2020) FBC
4	9/27/17	UPDATE TO 6TH ED. (2017) FBC
3	1/27/15	UPDATE TO 5TH ED. (2014) FBC
2	8/14/14	ADDED 8' DOORS
1	2/14/12	UPDATE TO 2010 FBC
NO.	DATE	REVISIONS

DATE: 5/12/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

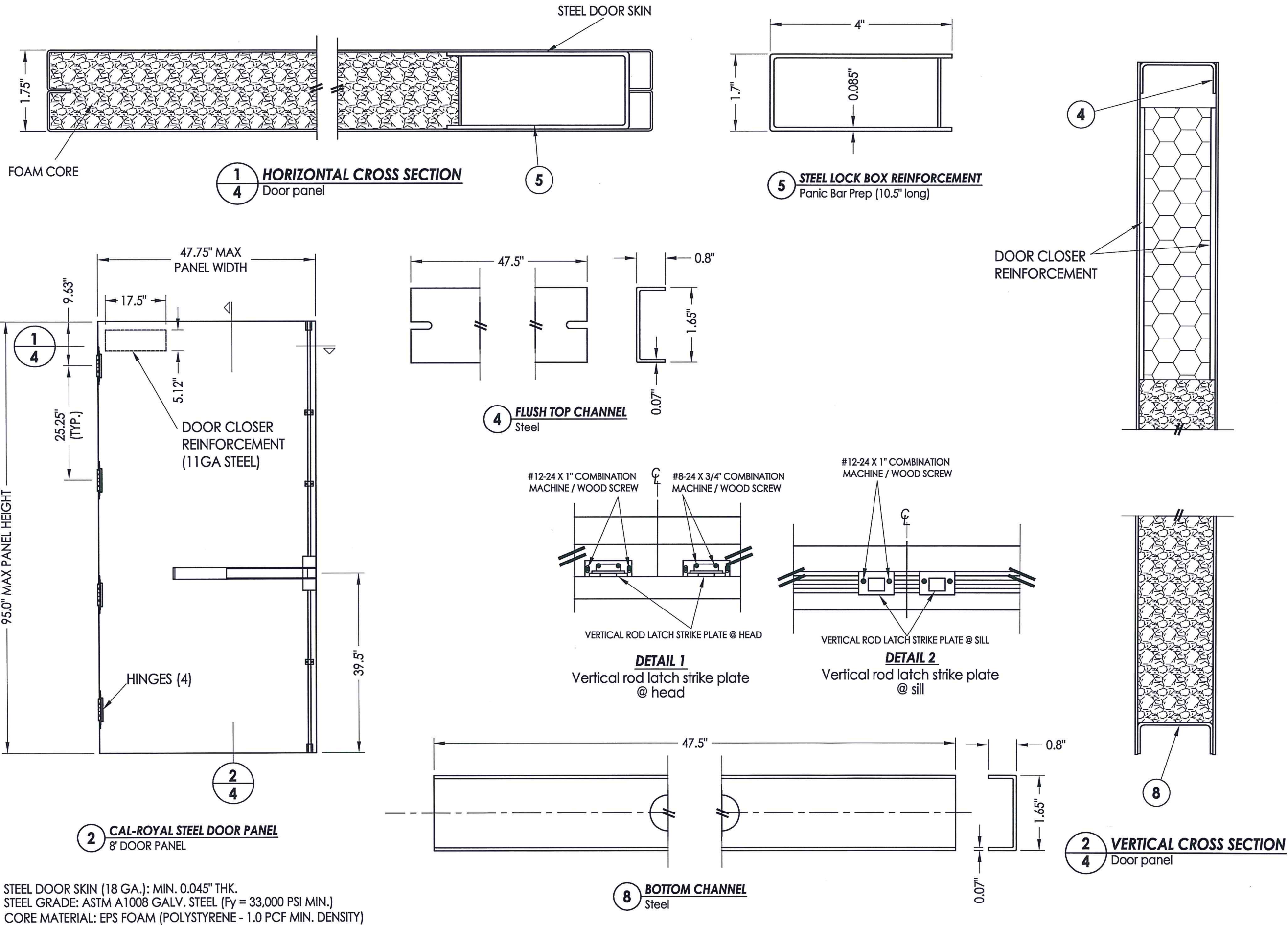
DRAWING NO.:

FL-13922.8

SHEET 3 OF 4

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

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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
6	7/07/23	UPDATE TO 8TH ED. (2023) FBC
5	11/16/20	UPDATE TO 7TH ED. (2020) FBC
4	9/27/17	UPDATE TO 6TH ED. (2017) FBC
3	1/27/15	UPDATE TO 5TH ED. (2014) FBC
2	8/14/14	ADDED 8' DOORS
1	2/14/12	UPDATE TO 2010 FBC
LFS		
JK		
BY		

DATE: 5/12/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:
FL-13922.8

SHEET 4 OF 4