

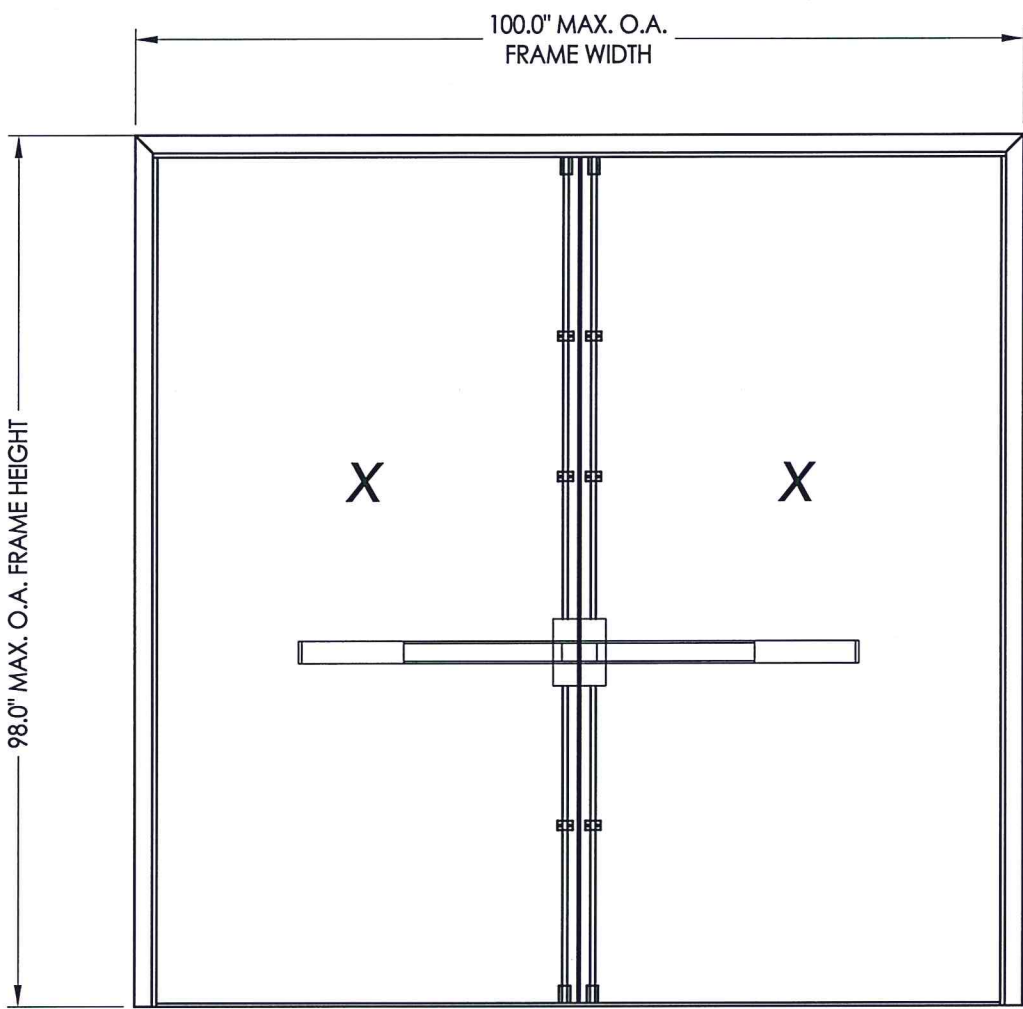


DKS SERIES 1800
STEEL COMMERCIAL DOUBLE DOOR
OUTSWING
"IMPACT"

GENERAL NOTES

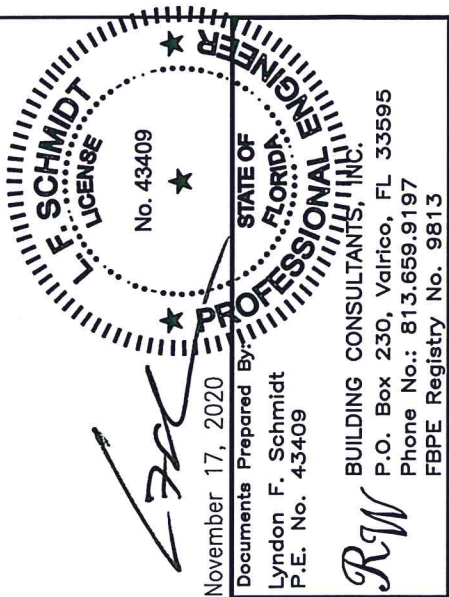
1. This product has been evaluated and is in compliance with the 7th Edition (2020) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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 excludes Wind Zone 4 as defined in ASTM E1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. 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 cross sections
4	Vertical cross sections
5	Frame anchoring
6	Frame anchoring
7	Bill of materials and components



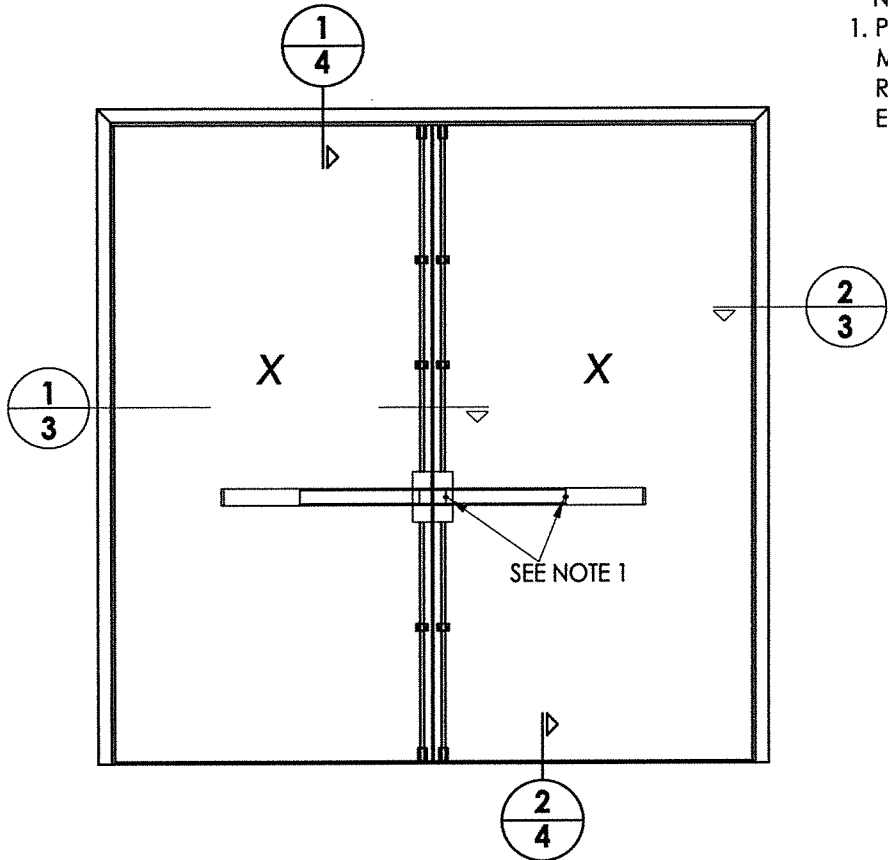
Panic Bar Exit Device w/ Vertical Rods "7700-V Series"

MAX FRAME DIMENSION	LOCK TYPE	DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE
100.0" x 98.0"	PANIC BAR EXIT DEVICE w/ VERTICAL RODS "7700-V Series"	+50.0	-50.0

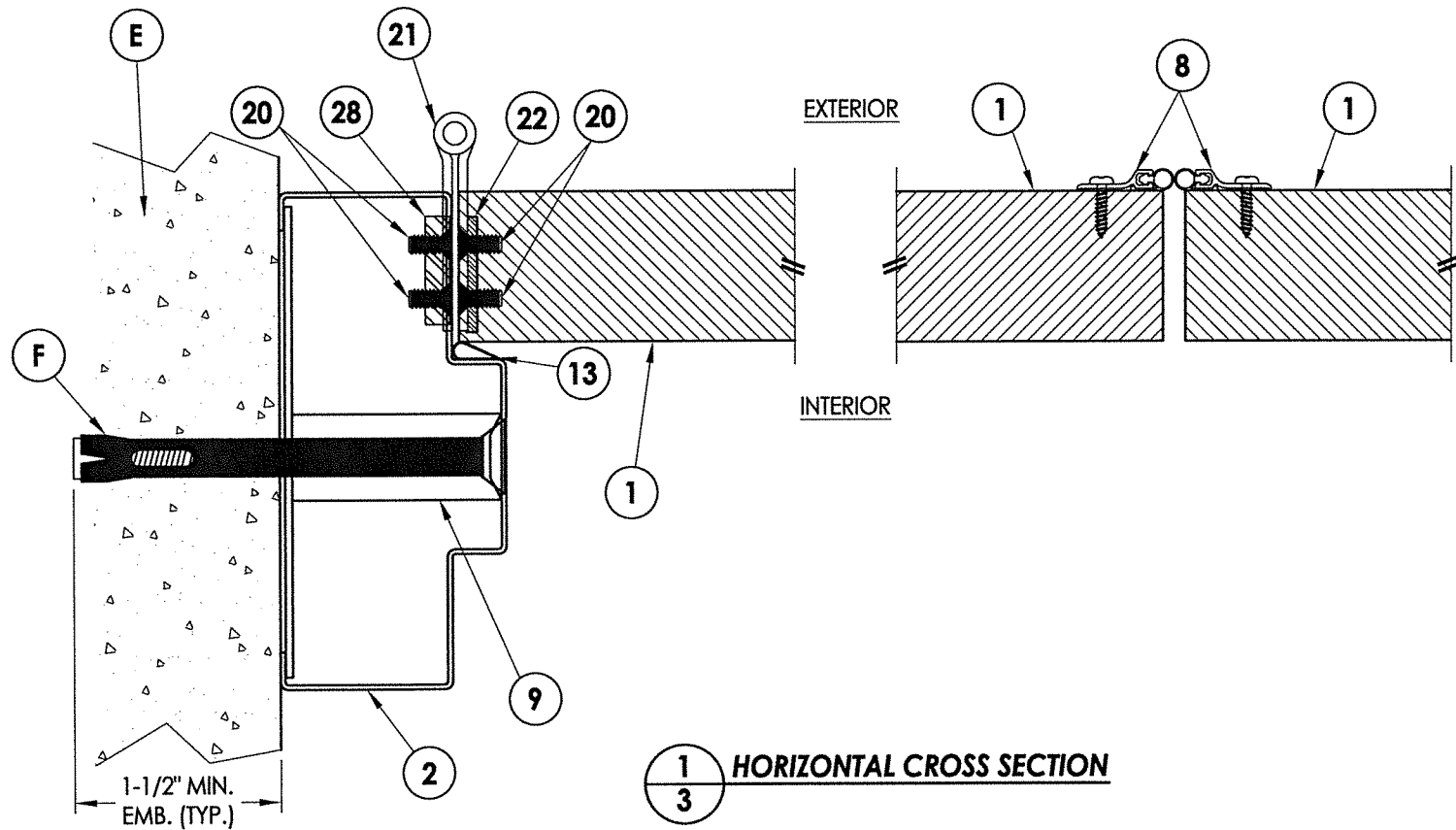
[illegible]

©2014 R.W. BUILDING CONSULTANTS INC.

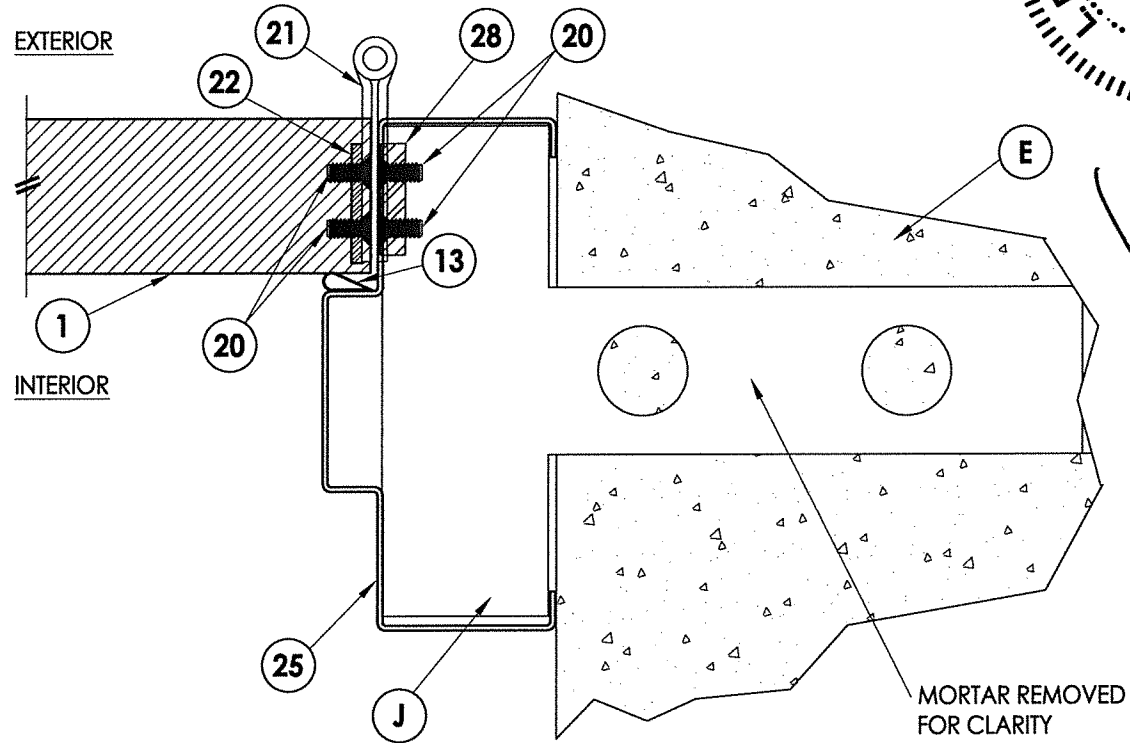
R:\Clients\Cal-Royal PERMANENTVA - Florida Product Approvals\FL-13624\C - Drawings\FL 13624 (2020) R8\FL-13624.7-8.dwg, 7.3



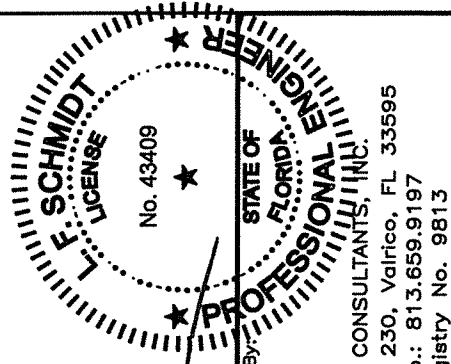
NOTE:
1. PANIC BAR SET SCREWS (#12-24 x 5/16")
MUST BE ACTIVATED TO ACHIEVE IMPACT
RATING. LOCATE ONE SCREW AT THE
END OF EACH PUSH BAR.



1
3 HORIZONTAL CROSS SECTION



2
3 HORIZONTAL CROSS SECTION
Masonry Construction
Masonry "Tee" Anchor



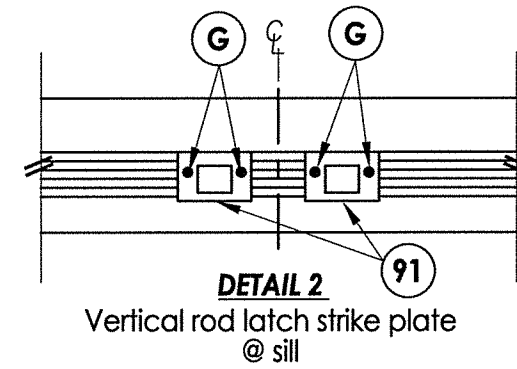
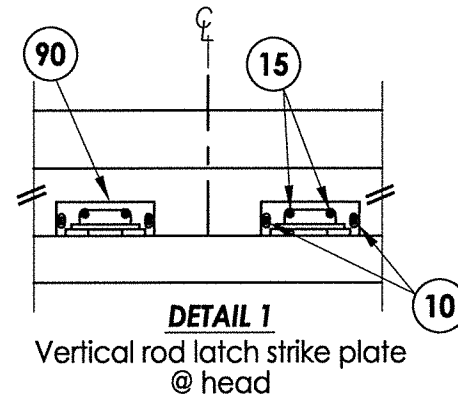
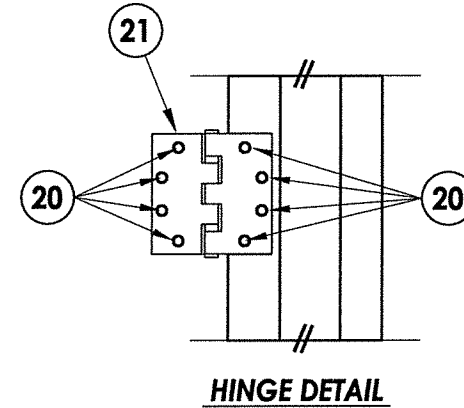
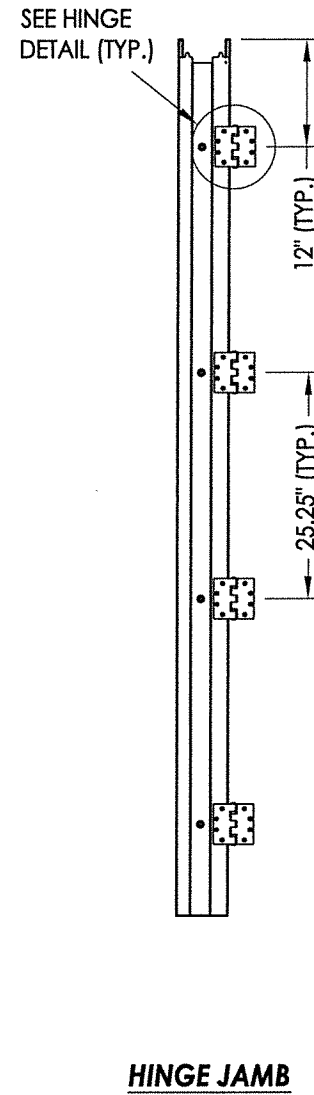
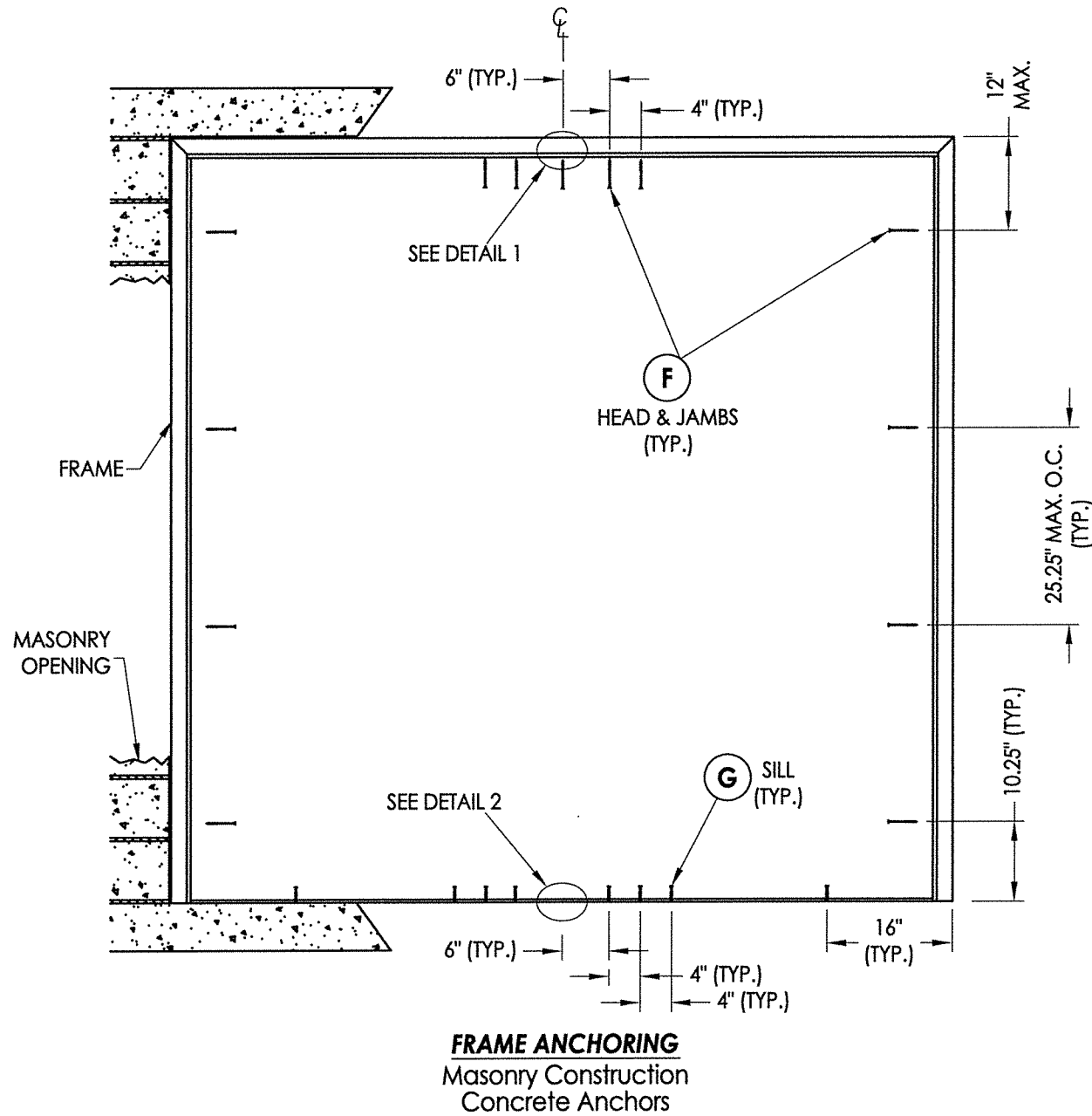
November 17, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409
R.W. BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
CAL-ROYAL
STEEL COMMERCIAL DOOR
PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS
3	11/16/20	UPDATE TO 7TH ED. (2020) FBC
2	9/27/17	UPDATE TO 6TH ED. (2017) FBC
1	1/27/15	UPDATE TO 5TH ED. (2014) FBC
NO.	DATE	BY

DATE: 8/04/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-13624.7
SHEET 3 OF 7

© 2014 R.W. BUILDING CONSULTANTS INC.

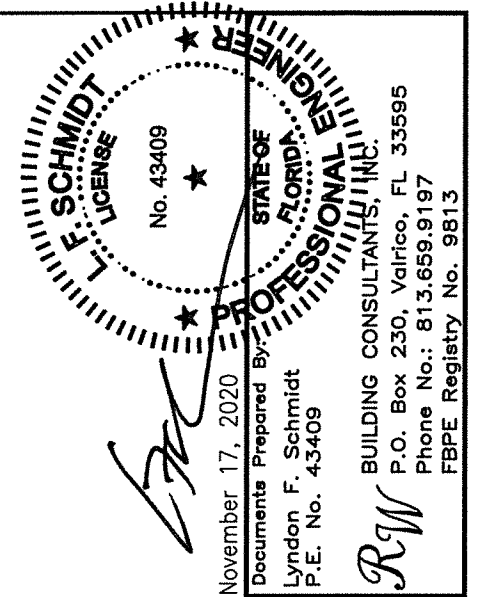


CONCRETE ANCHOR NOTES:

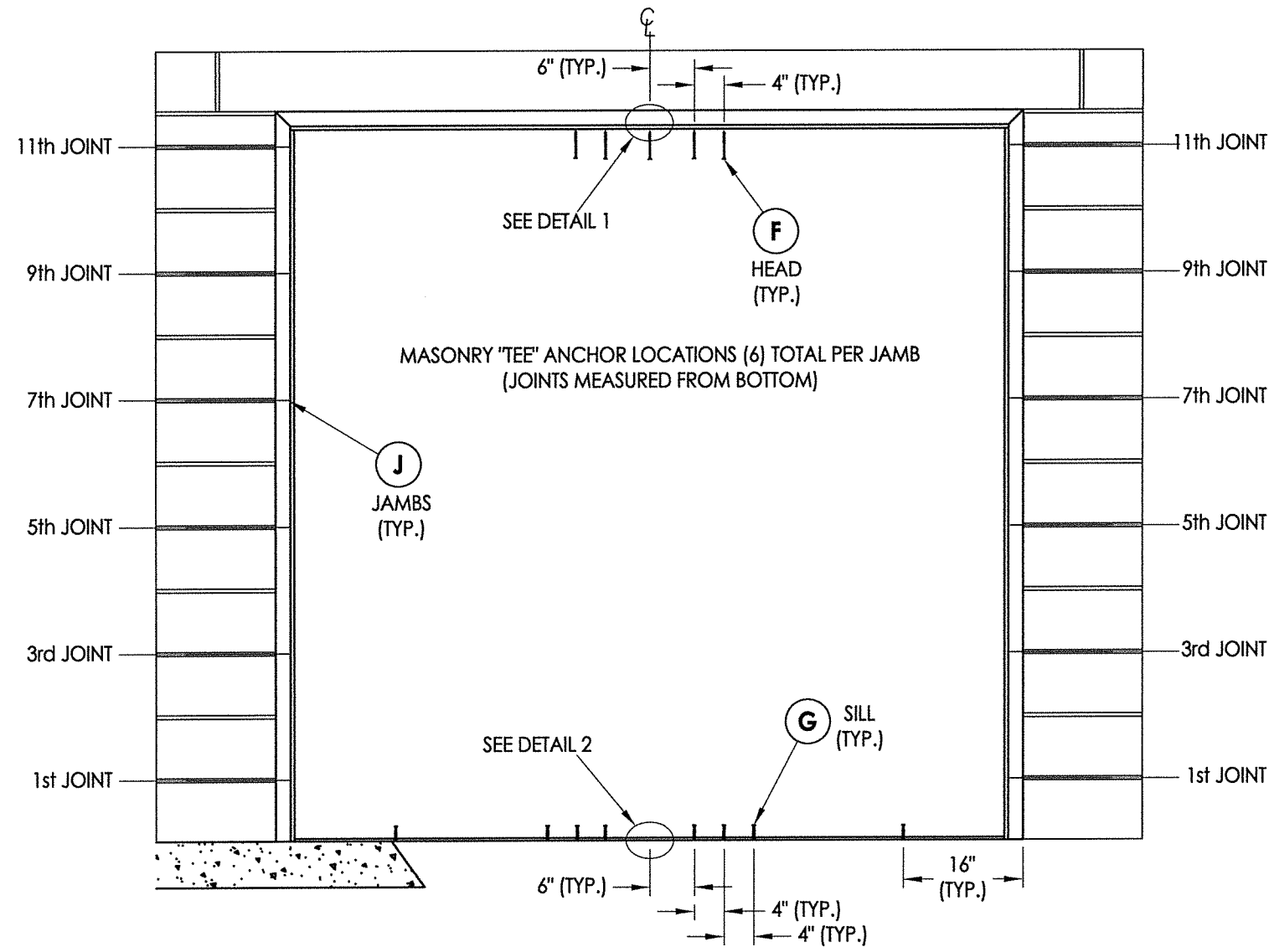
1. Substitution of equal concrete screws from a different supplier may have different edge distance and center distance requirements.
2. Concrete screw locations at the corners may be adjusted to maintain the minimum edge distance to mortar joints. If concrete screw locations noted as "MAX. ON CENTER" 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"	1-3/4"	2-1/2"	2"
DYNABOLT SLEEVE ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"

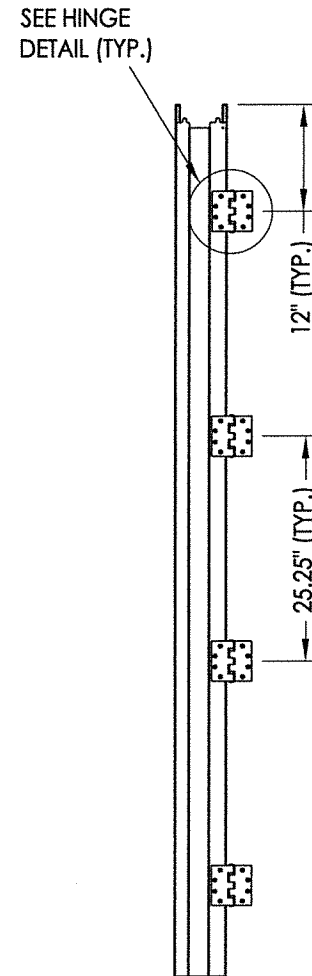
4. Embedment may be through 1-1/4" face shell of hollow block.



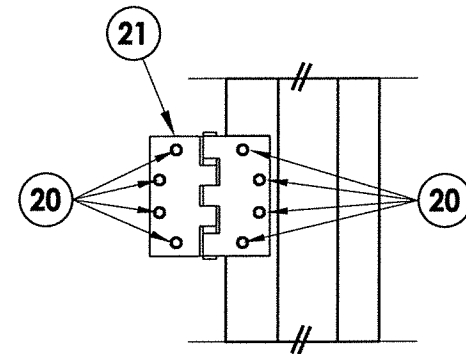
PRODUCT:		CAL-ROYAL STEEL COMMERCIAL DOOR	
PART OR ASSEMBLY:		FRAME ANCHORING	
			LFS
3	11/16/20	UPDATE TO 7TH ED. (2020)	FBC
2	9/27/17	UPDATE TO 6TH ED. (2017)	FBC
1	1/27/15	UPDATE TO 5TH ED. (2014)	FBC
NO.	DATE		BY
REVISIONS			
DATE: 8/04/14			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-13624.7			
SHEET 5 OF 7			



FRAME ANCHORING
Masonry Construction
Masonry "Tee" Anchors



HINGE JAMB

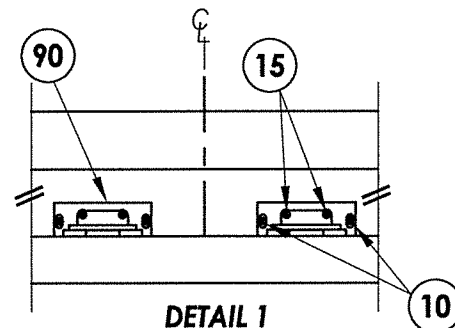


HINGE DETAIL

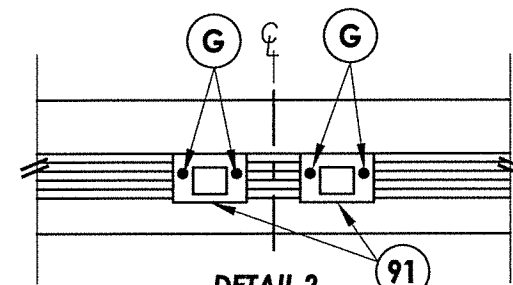
CONCRETE ANCHOR NOTES:

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:

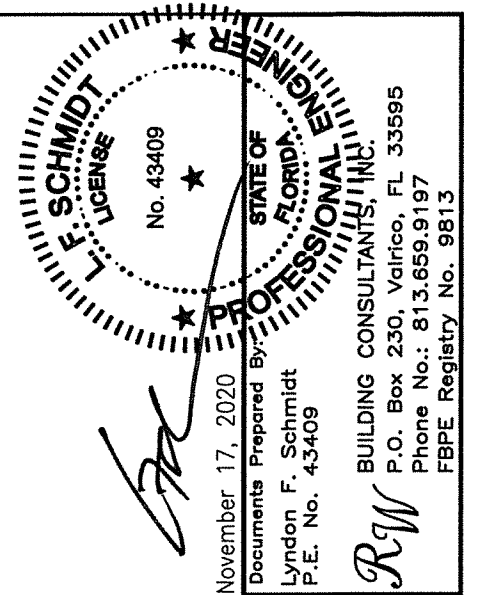
ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-3/4"	2-1/2"	2"
DYNABOLT SLEEVE ANCHOR	3/8"	1-1/2"	2-1/4"	4-1/2"



DETAIL 1
Vertical rod latch strike plate
@ head



DETAIL 2
Vertical rod latch strike plate
@ sill



November 17, 2020
Documents Prepared By
Lyndon F. Schmidt
P.E. No. 43409

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

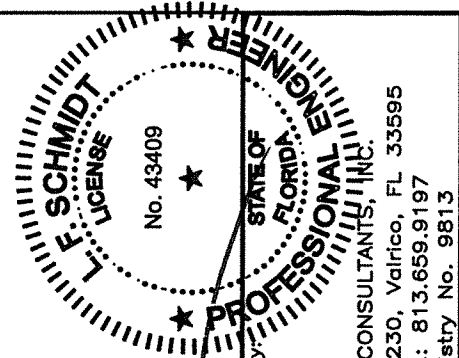
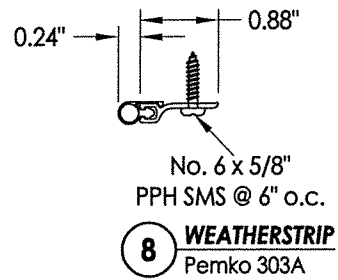
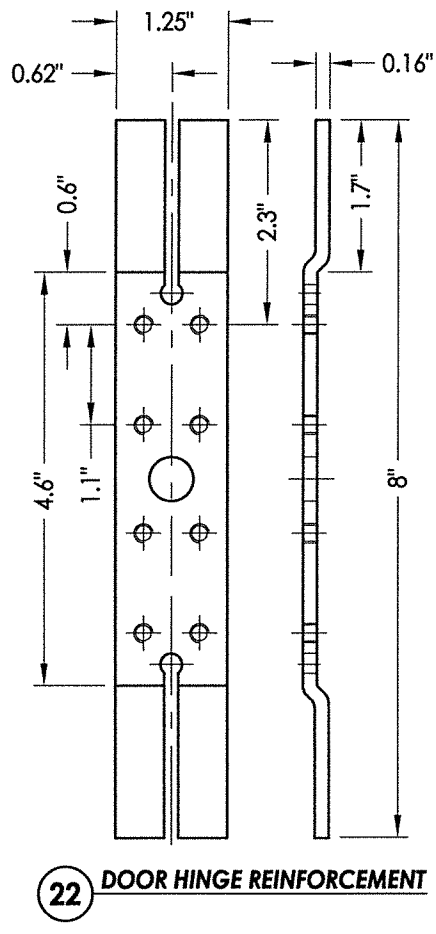
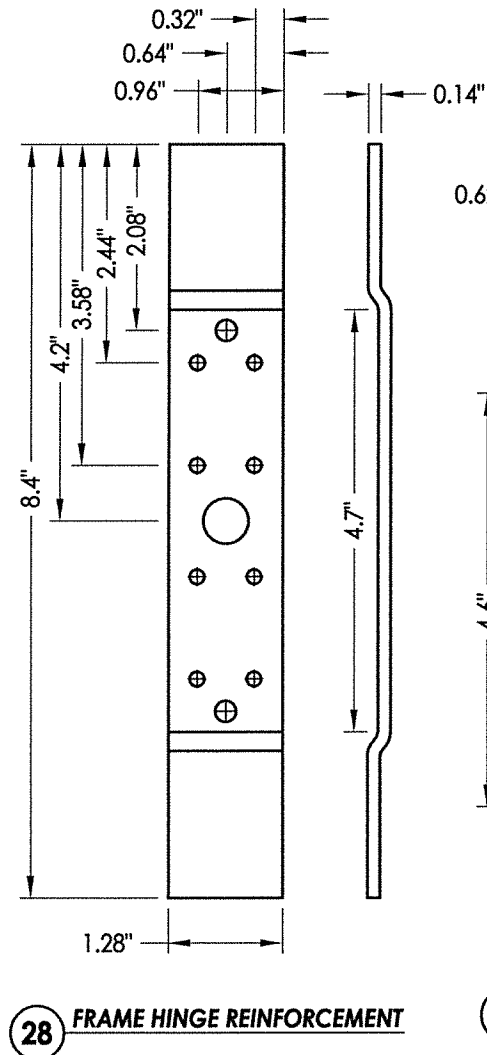
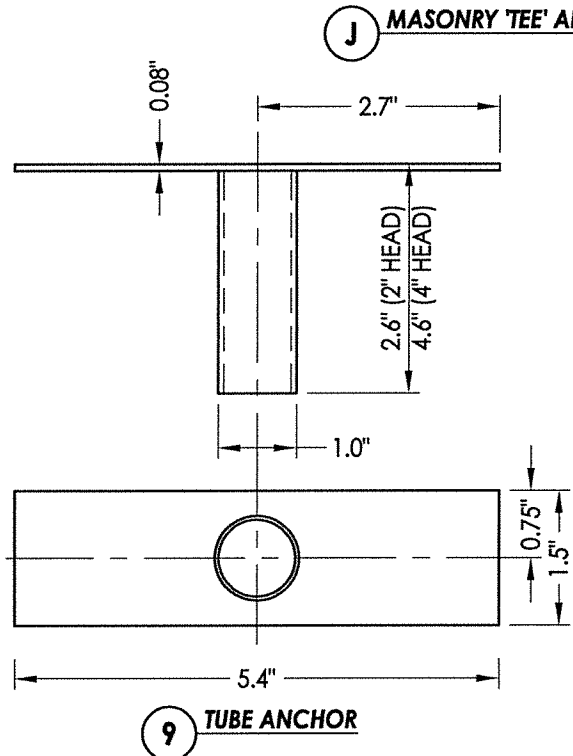
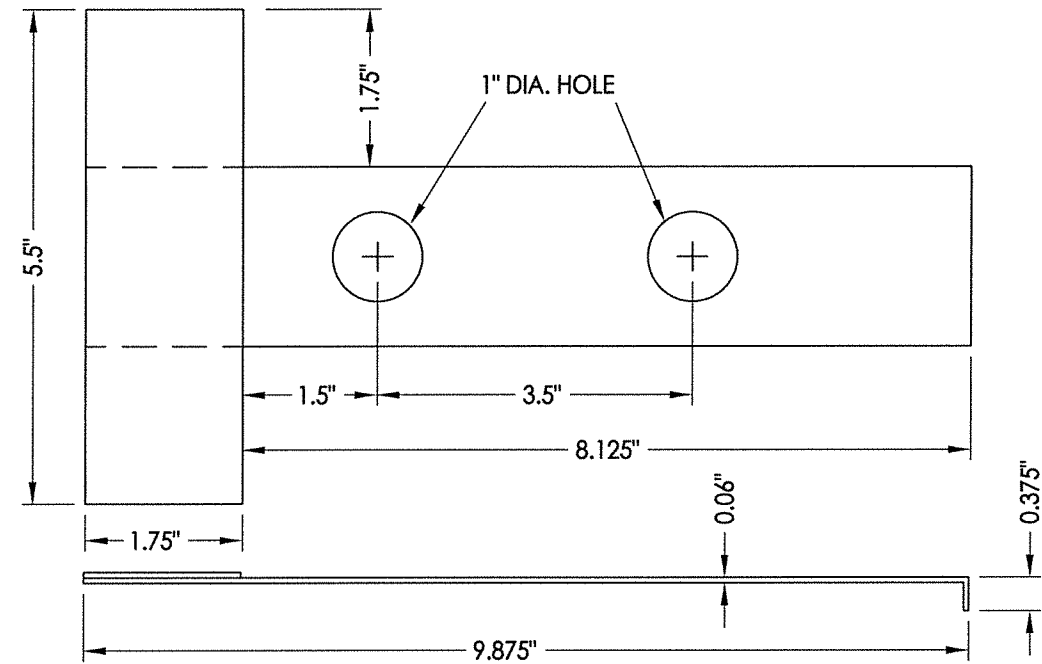
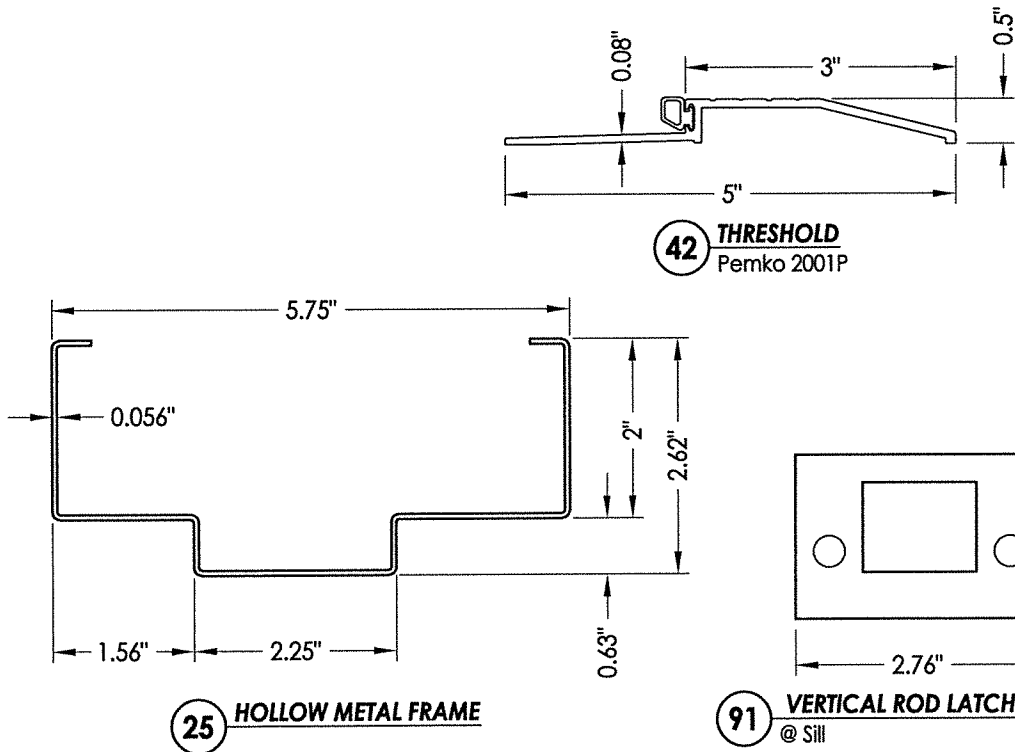
PRODUCT:
CAL-ROYAL
STEEL COMMERCIAL DOOR

PART OR ASSEMBLY:
FRAME ANCHORING

NO.	DATE	REVISIONS
3	11/16/20	UPDATE TO 7TH ED. (2020) FBC LFS
2	9/27/17	UPDATE TO 6TH ED. (2017) FBC JK
1	1/27/15	UPDATE TO 5TH ED. (2014) FBC JK

DATE: 8/04/14
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-13624.7
SHEET 6 OF 7

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
C	1/4" MAX. SHIM SPACE	-
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90	CONCRETE
F	3/8" PFH ITW DYNABOLT SLEEVE ANCHOR	STEEL
G	1/4" X 2-1/4" ITW PFH CONCRETE SCREW	STEEL
J	MASONRY "TEE" ANCHOR	STEEL
1	CAL-ROYAL DOOR PANEL	-
3	DOOR BOTTOM CHANNEL	STEEL
4	DOOR TOP CHANNEL	STEEL
5	LOCK BOX REINFORCEMENT	STEEL
6	CLOSER REINFORCEMENT (11 gauge)	STEEL
8	WEATHERSTRIP - PEMKO 303A	NEOPRENE
9	TUBE ANCHOR	STEEL
10	#12-24 X 1" COMBINATION MACHINE / WOOD SCREW	STEEL
11	DOOR SWEEP - PEMKO 3151	PVC
13	WEATHERSTRIP - COMPRESSION BULB 1/4" X 1/2" (PEMKO S88)	NEOPRENE
15	#8-24 X 3/4" COMBINATION MACHINE / WOOD SCREW	STEEL
20	#12-24 X 1/2" PFH MACHINE SCREW	STEEL
21	4-1/2" X 4-1/2" X 0.125" TEMPLATE HINGE	STEEL
22	DOOR HINGE REINFORCEMENT	STEEL
25	HOLLOW FRAME 2"	STEEL
28	FRAME HINGE REINFORCEMENT	STEEL
29	DOOR BOTTOM REINFORCEMENT w/ STRIKE PLATE	STEEL
42	OUTSWING THRESHOLD - PEMKO 2001P	ALUM
74	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



November 17, 2020
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

PRODUCT:		CAL-ROYAL DOOR	
		STEEL COMMERCIAL DOOR	
PART OR ASSEMBLY:		BILL OF MATERIALS AND COMPONENTS	
		REVISIONS	
3	11/16/20	UPDATE TO 7TH ED. (2020)	FBC
2	9/27/17	UPDATE TO 6TH ED. (2017)	FBC
1	1/27/15	UPDATE TO 5TH ED. (2014)	FBC
NO.	DATE		
		DATE: 8/04/14	
		SCALE: N.T.S.	
		DWG. BY: JK	
		CHK. BY: LFS	
		DRAWING NO.: FL-13624.7	
		SHEET 7 OF 7	