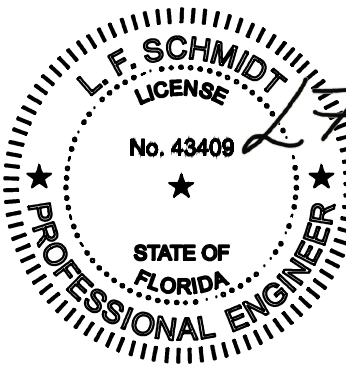


Vision Hollow Metal Limited

400 Zenway Blvd. Unit #1
Woodbridge, ON L4H OS7

LS18 STEEL DOUBLE DOOR
OUTSWING
"IMPACT"

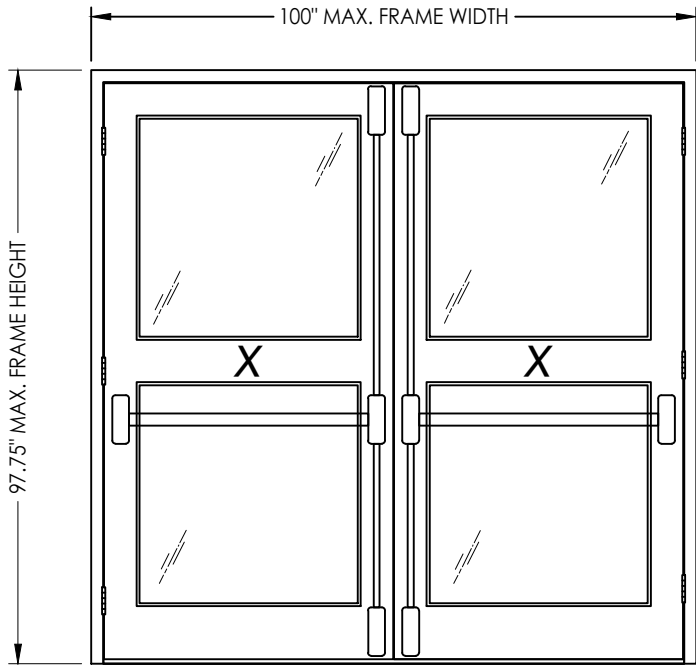


Digitally signed by
Lyndon F Schmidt
Date: 2026.08.17
15:20:57 -04'00'

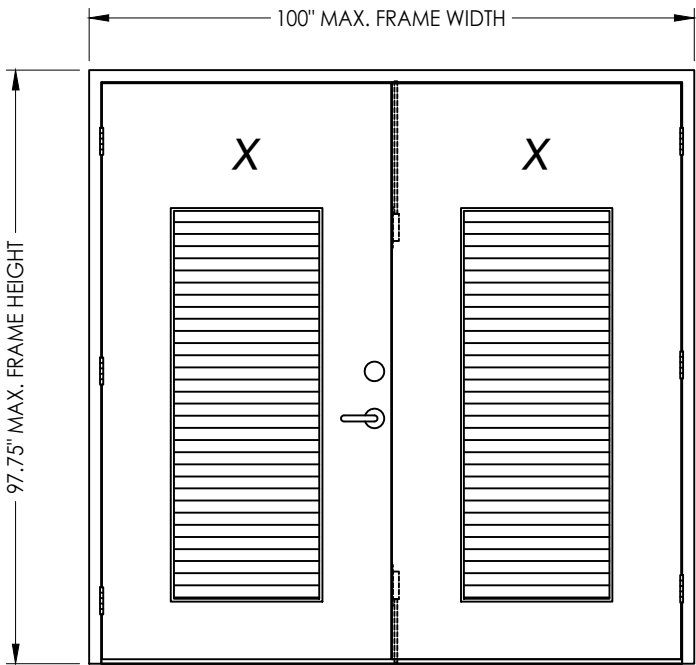
This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.

Printed copies of this document are not
considered signed and sealed and the signature
must be verified on any electronic copies.

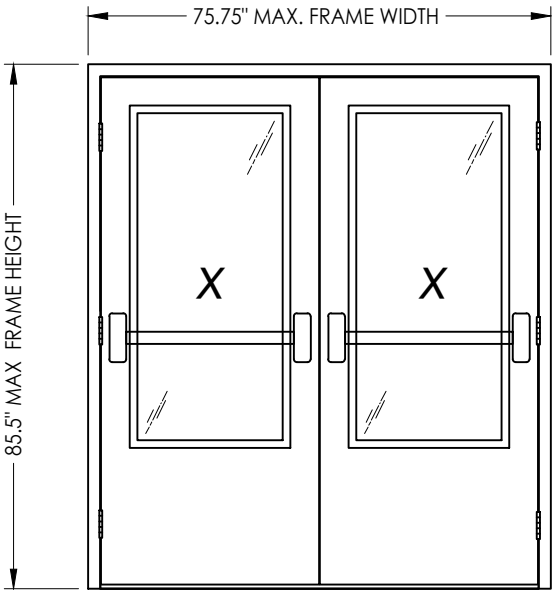
THIS PRODUCT APPROVAL IS VALID
ONLY FOR THE STATE OF FLORIDA



PANIC BAR EXIT DEVICE w/ VERTICAL RODS



CYLINDRICAL LOCK & DEADBOLT



PANIC BAR EXIT DEVICE w/ REMOVABLE MULLION

GENERAL NOTES

- 1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements for 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. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
- 5. This product meets water infiltration requirements for the "HVHZ".
- 6. All steel shall be protected as specified in Section 2222.6 of the FBC.

TABLE OF CONTENTS	
SHEET#	DESCRIPTION
1	Typical elevation, design pressures & general notes
2	Glazed door panel details
3	Louvered door panel details
4	Elevations
5	Horizontal cross sections
6	Horizontal & vertical cross sections
7	Frame anchoring
8	Frame anchoring
9	Hardware Details
10	Bill of materials and components

MAX FRAME DIMENSION	LOCK TYPE OPTIONS	DESIGN PRESSURE (PSF) OUTSWING	
		POSITIVE	NEGATIVE
100" x 97.75"	CYLINDRICAL LOCK & DEADBOLT PANIC BAR EXIT DEVICE w/ REMOVABLE MULLION	+65.0	-65.0
75.75" x 85.5"	PANIC BAR EXIT DEVICE w/ VERTICAL RODS	+65.0	-65.0

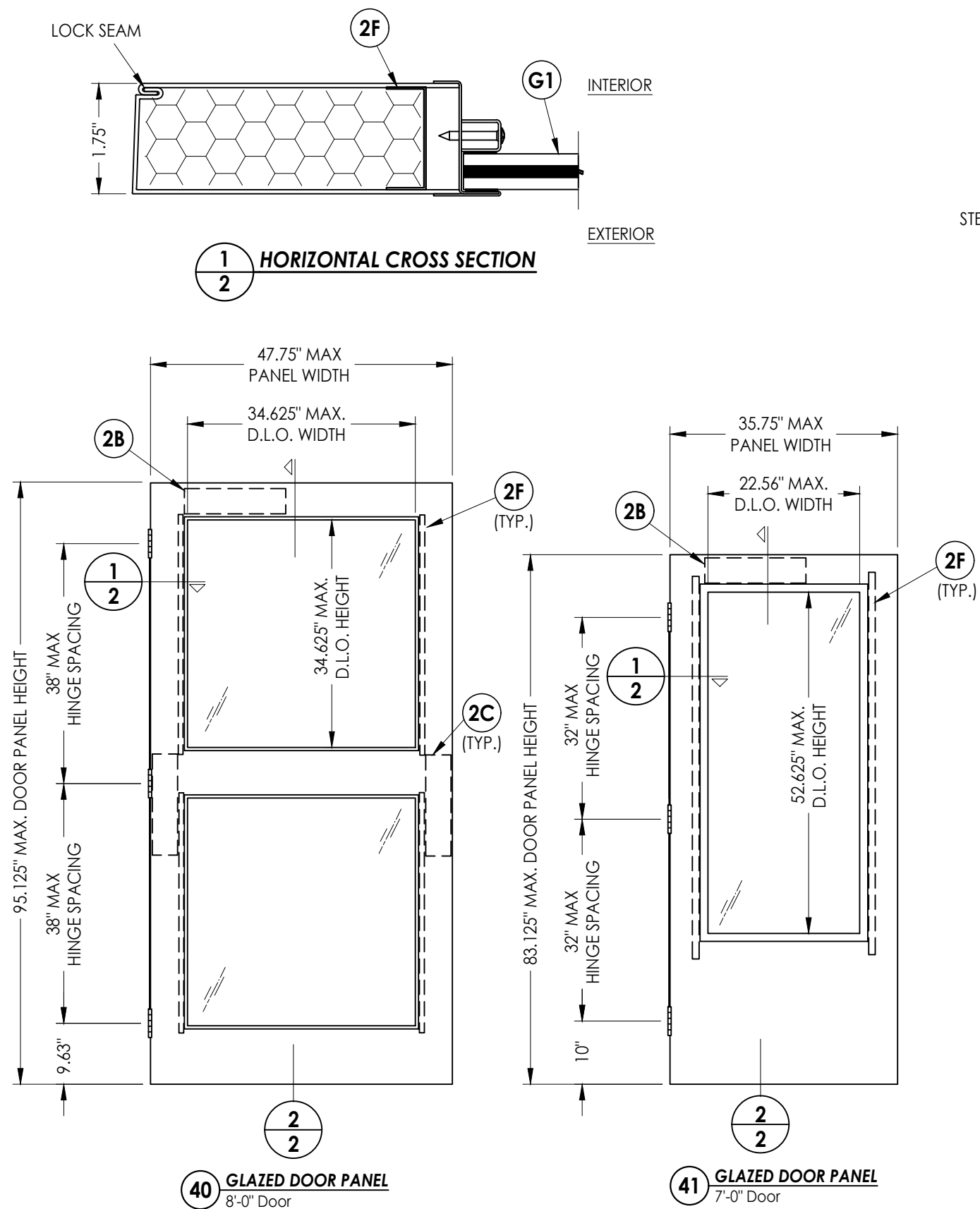
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

PRODUCT: LS18 STEEL DOOR
PART OR ASSEMBLY:
TYPICAL ELEVATIONS, DESIGN
PRESSURES & GENERAL NOTES

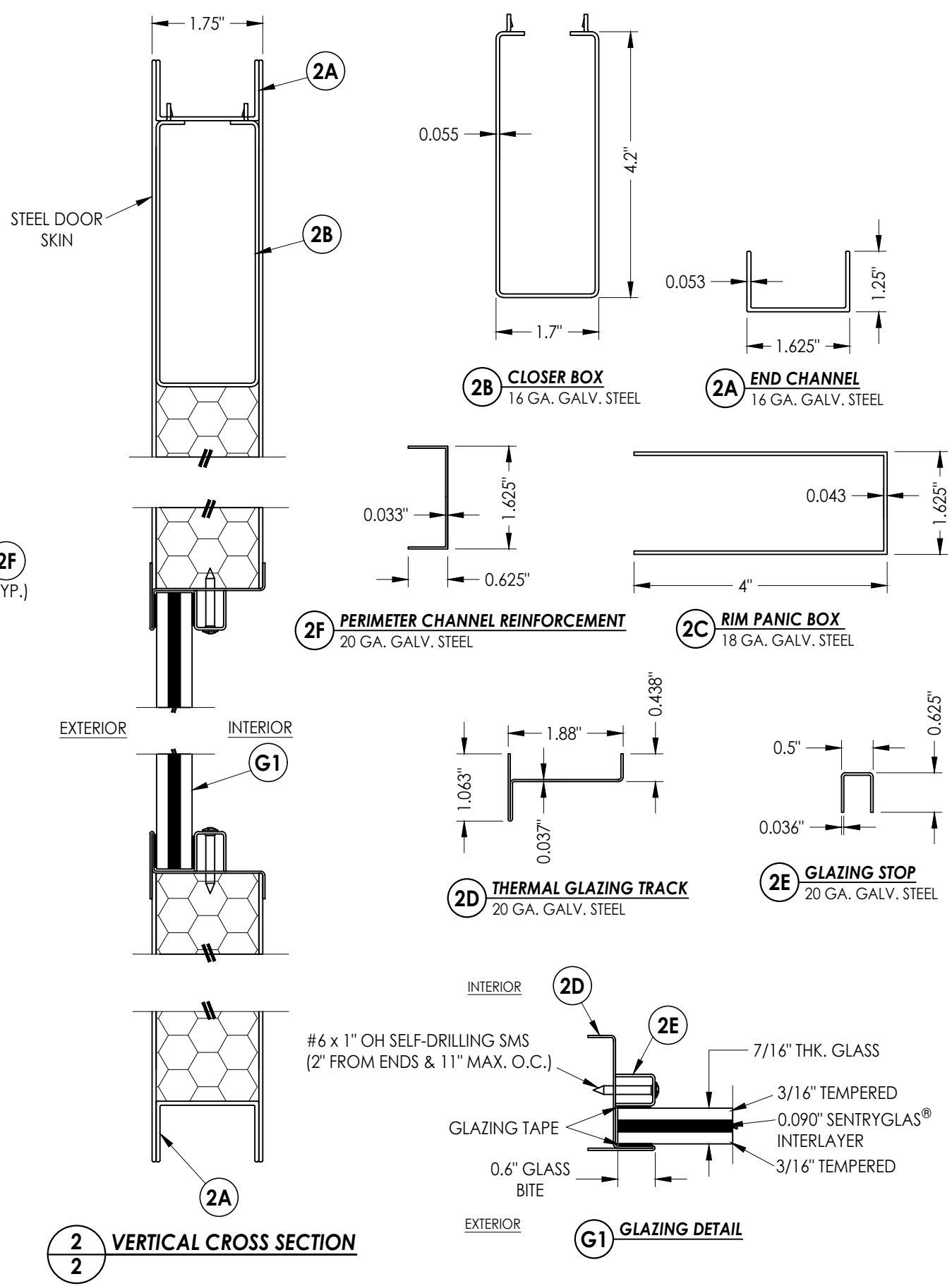
REVISIONS			
NO.	DATE	BY	
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5	7/05/23	UPDATE TO 8TH ED. (2023)	FBC LFS
4	9/08/20	UPDATE TO 7TH ED. (2020)	FBC LFS

DATE: 10/29/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.: FL-19036.2
SHEET 1 OF 10

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



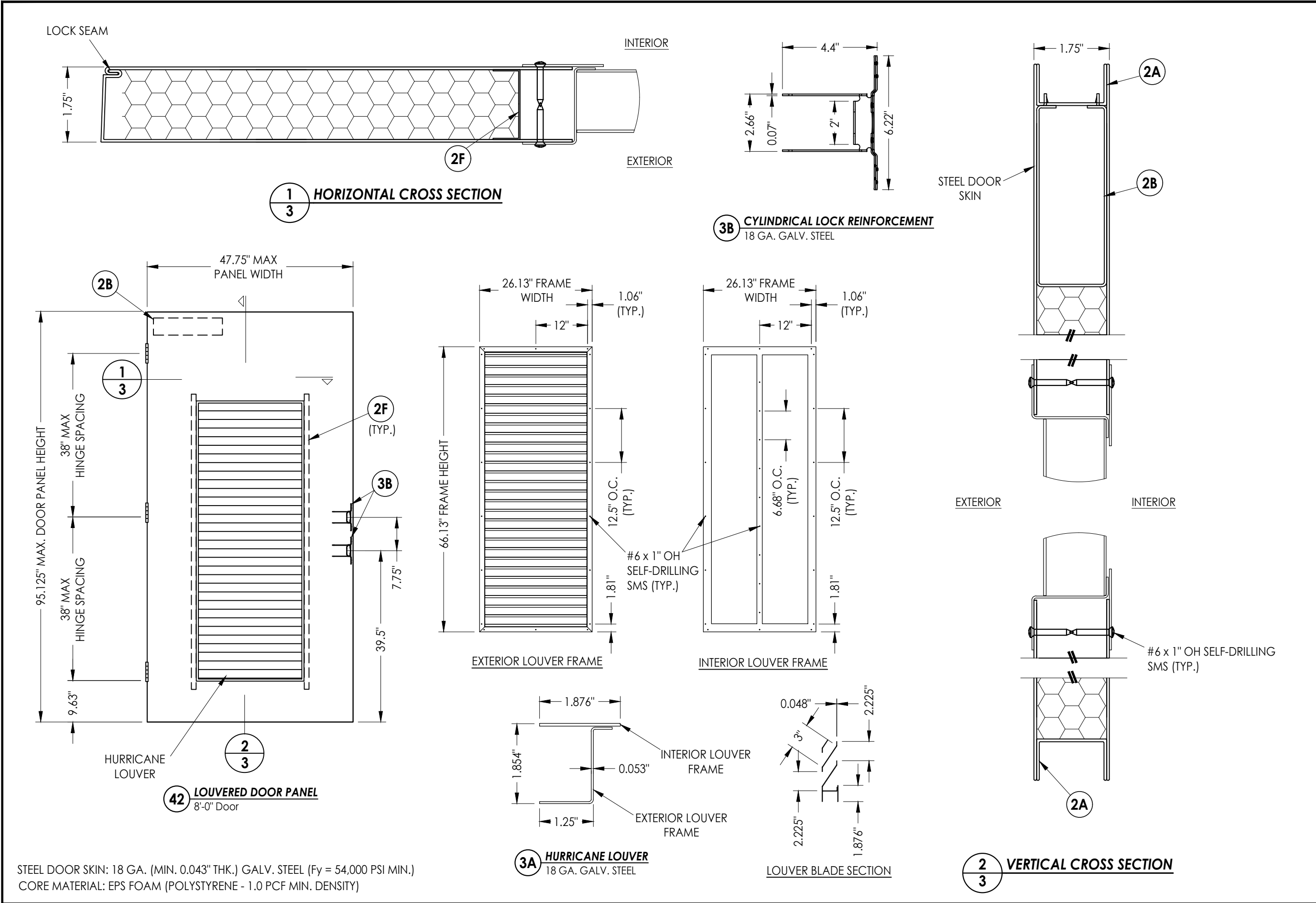
STEEL DOOR SKIN: 18 GA. (MIN. 0.043" THK.) GALV. STEEL (Fy = 54,000 PSI MIN.)
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)

[illegible]

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

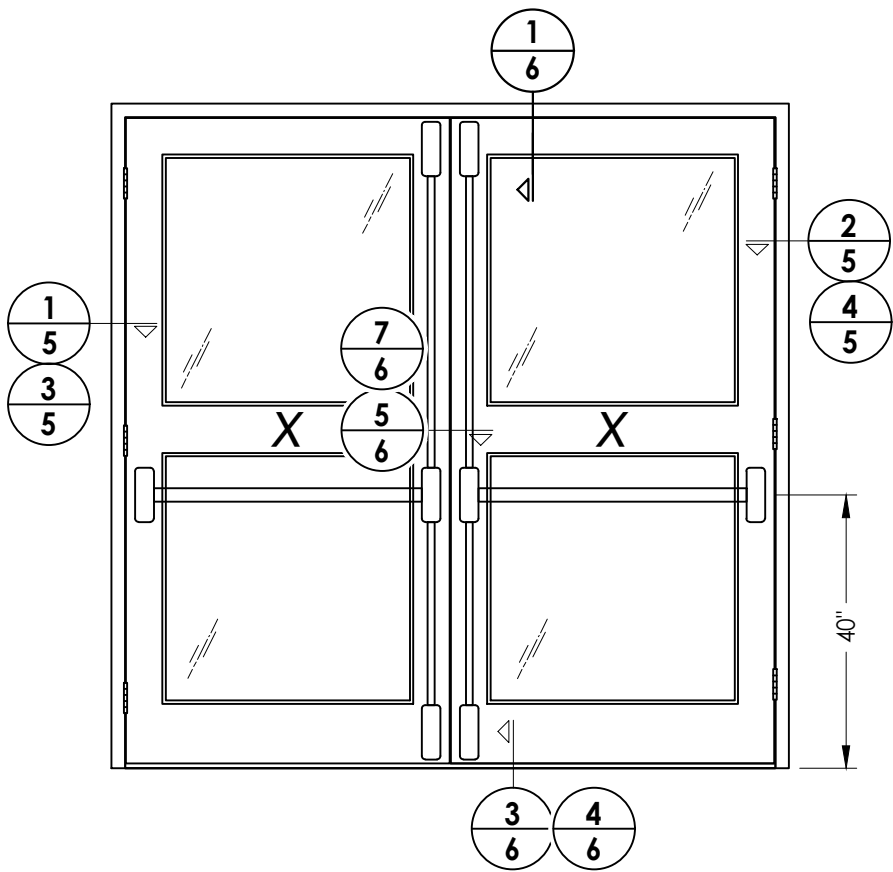
RW
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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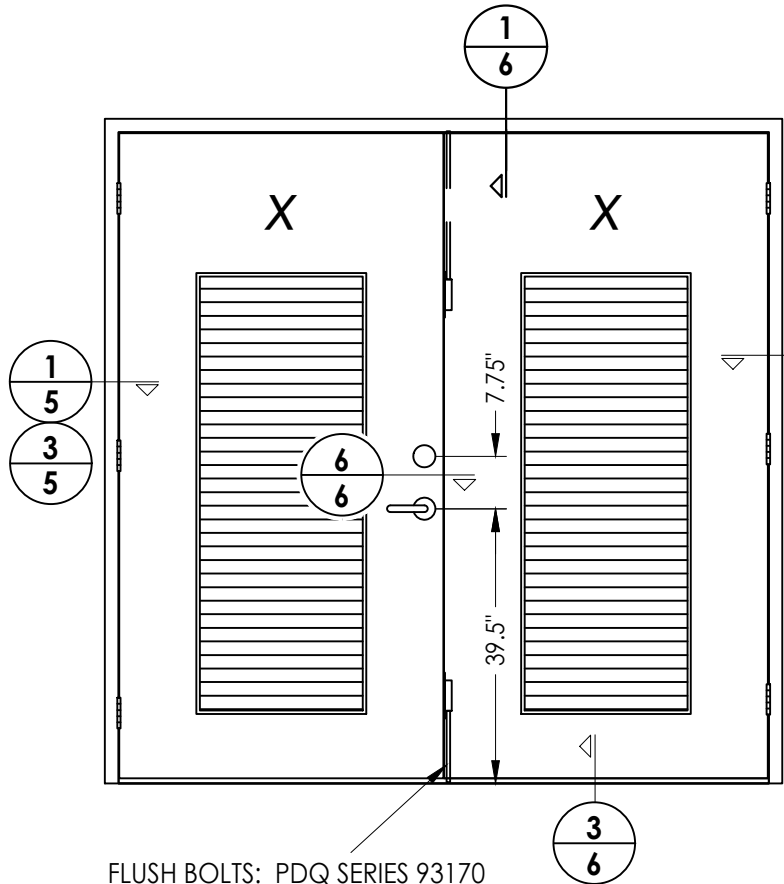


Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: LS18 STEEL DOOR		PART OR ASSEMBLY: LOUVERED DOOR PANEL DETAILS	
		LFS	BY
		FBC	
6	7/02/26	UPDATE TO 9TH ED. (2026)	
5	7/05/23	UPDATE TO 8TH ED. (2023)	
4	9/08/20	UPDATE TO 7TH ED. (2020)	
	NO.	DATE	
REVISIONS			
DATE: 10/29/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19036.2			
SHEET 3 OF 10			

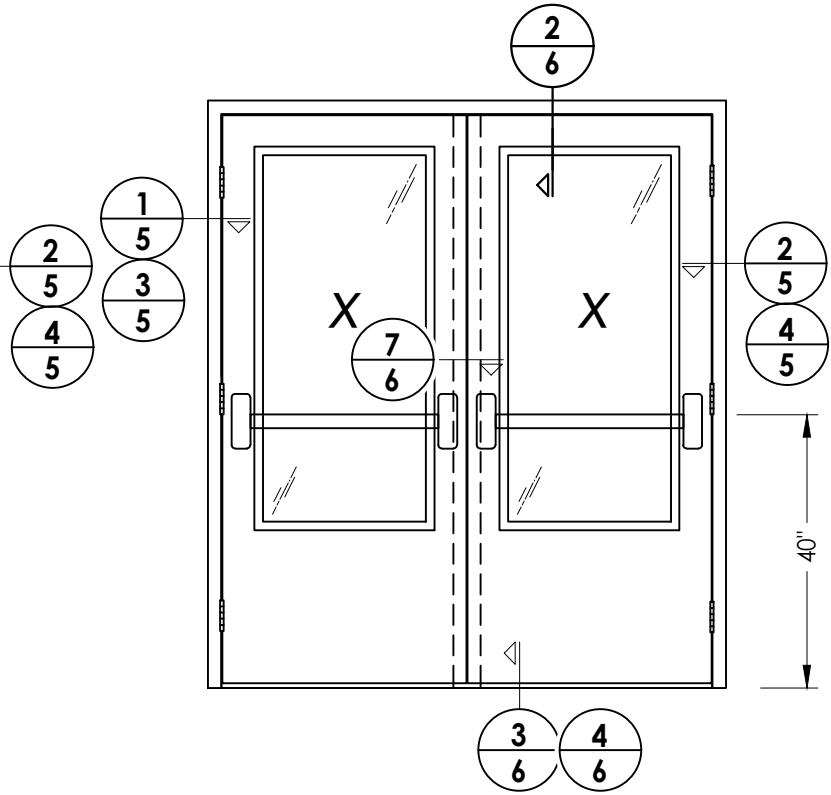
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LOCK HARDWARE
RIM EXIT DEVICE w/ VERTICAL RODS: PDQ 6200VA SERIES (SHOWN)
OR
RIM EXIT DEVICE: PDQ 6200R SERIES
REMOVABLE MULLION: PDQ 9200M-11 SERIES



LOCK HARDWARE
CYLINDRICAL LOCK: PDQ: GP SERIES
CYLINDRICAL LOCK: SCHLAGE: AL53PD
DEADBOLT: SCHLAGE: B660P



LOCK HARDWARE
RIM EXIT DEVICE: PDQ 6200R SERIES
REMOVABLE MULLION: PDQ 9200M-11 SERIES

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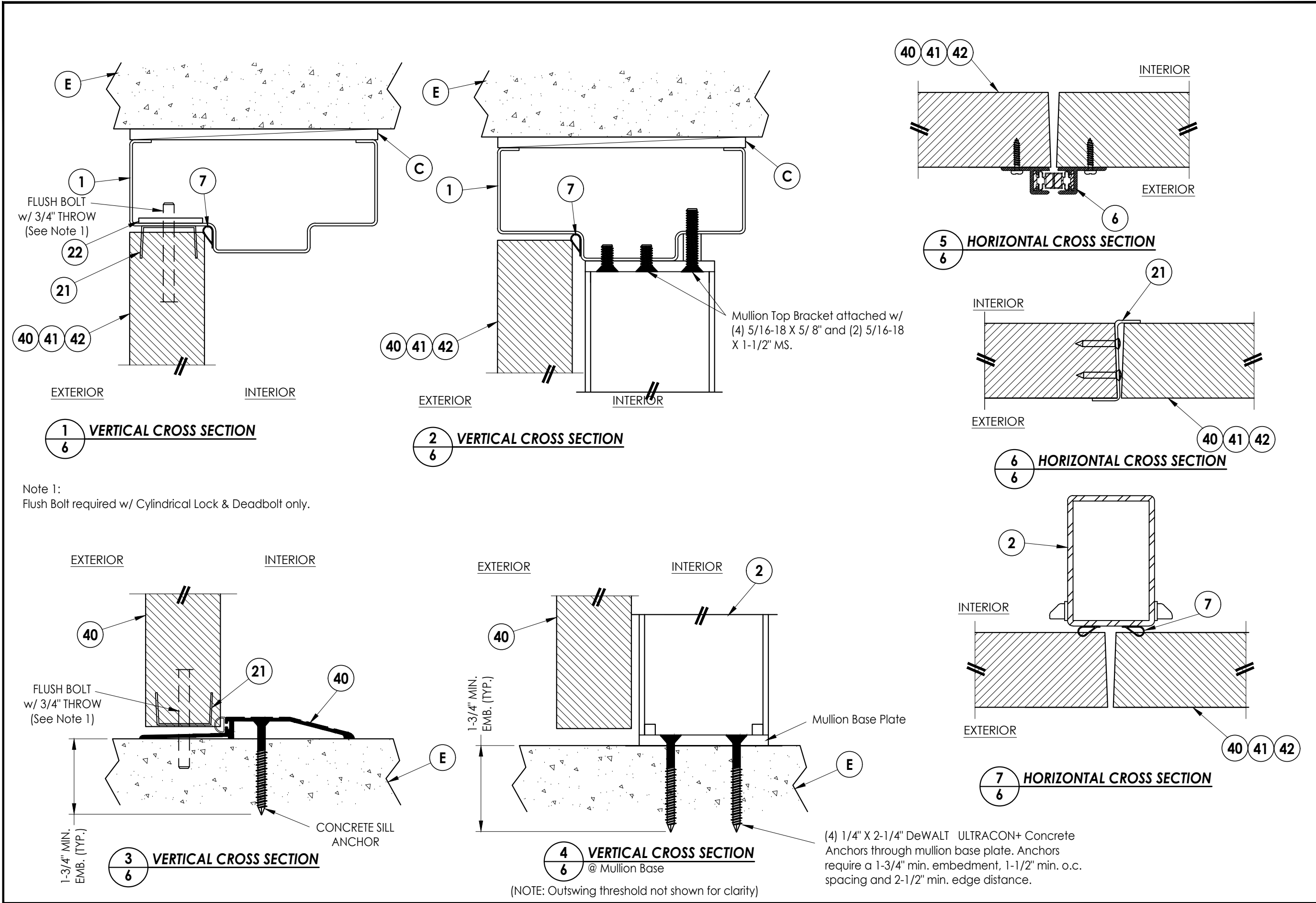
PRODUCT: LS18 STEEL DOOR	
PART OR ASSEMBLY: ELEVATIONS	

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

RW

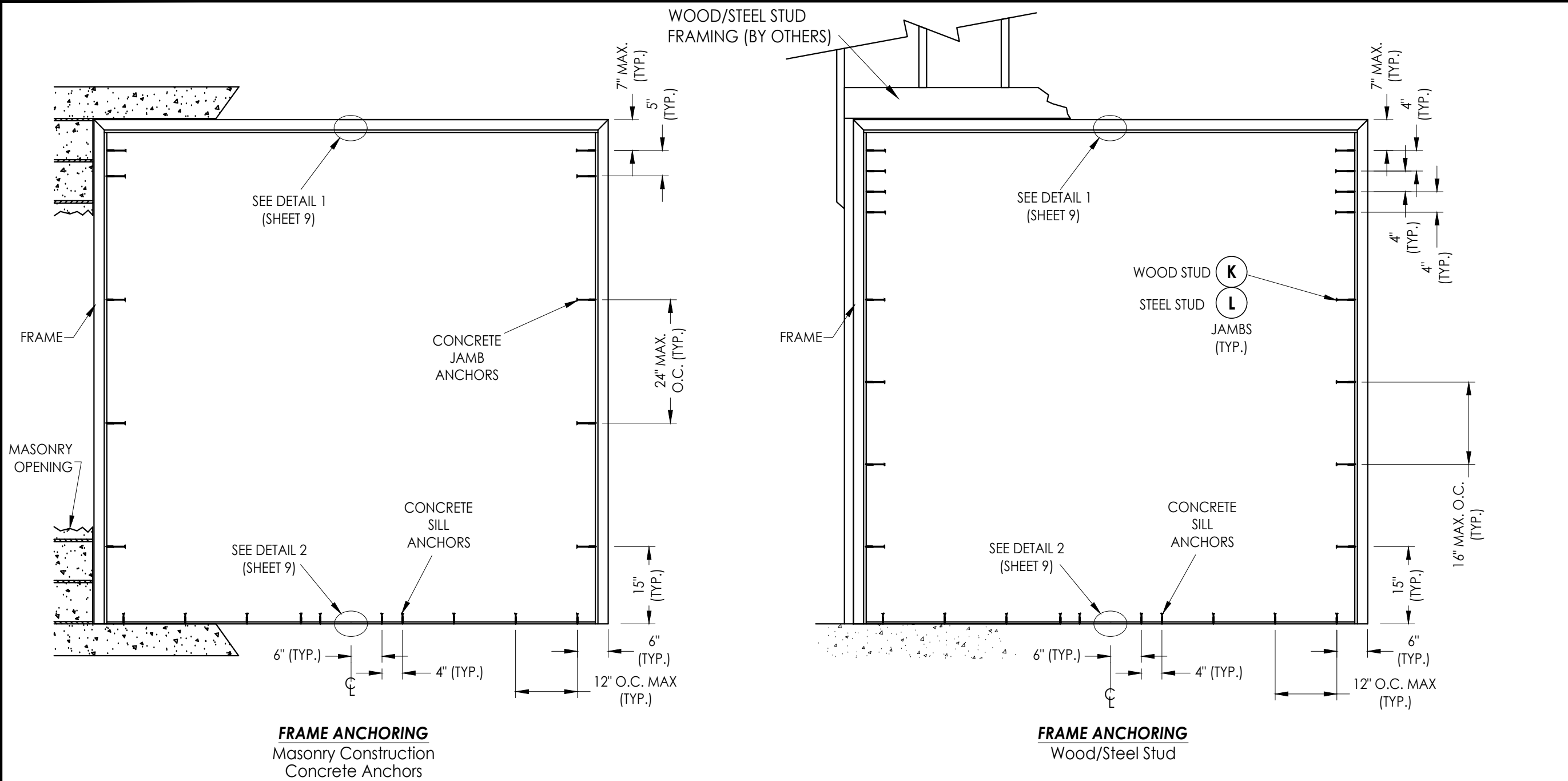
BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

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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: LS18 STEEL DOOR		PART OR ASSEMBLY: HORIZONTAL & VERTICAL CROSS SECTIONS		
	6	7/02/26	UPDATE TO 9TH ED. (2026) FBC	LFS
	5	7/05/23	UPDATE TO 8TH ED. (2023) FBC	LFS
	4	9/08/20	UPDATE TO 7TH ED. (2020) FBC	LFS
	NO.	DATE		BY
REVISIONS				
DATE: 10/29/15				
SCALE: N.T.S.				
DWG. BY: JK				
CHK. BY: LFS				
DRAWING NO.: FL-19036.2				
SHEET 6 OF 10				

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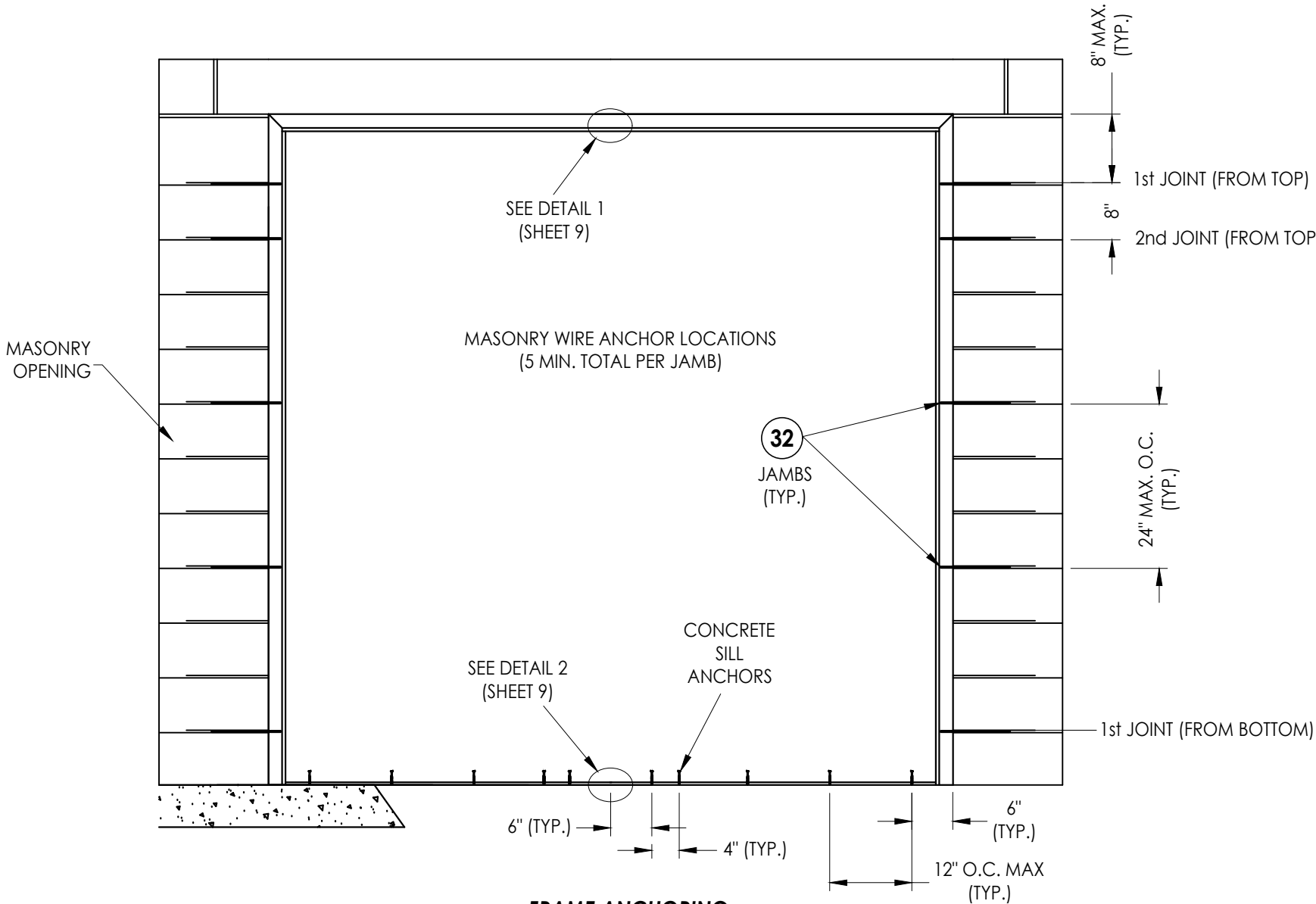


CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." 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 LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRACON+® (DeWALT) TAPPER+® (POWERS)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409		BUILDING CONSULTANTS, INC. P.O. Box 230, Vairico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813	
PRODUCT: LS18 STEEL DOOR		PART OR ASSEMBLY: FRAME ANCHORING	
		UPDATE TO 9TH ED. (2026) FBC LFS	
		UPDATE TO 8TH ED. (2023) FBC LFS	
		UPDATE TO 7TH ED. (2020) FBC LFS	
		NO. DATE	BY
REVISIONS			
DATE: 10/29/15			
SCALE: N.T.S.			
DWG. BY: JK			
CHK. BY: LFS			
DRAWING NO.: FL-19036.2			
SHEET 7 OF 10			



FRAME ANCHORING

Masonry Construction
Masonry Wire Anchors

CONCRETE ANCHOR NOTES:

- Concrete screw locations at the corners may be adjusted to maintain a minimum 1" edge distance to mortar joints. If concrete screw locations noted as "MAX. O.C." 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 LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRACON+® (DeWALT) TAPPER+® (POWERS)	2-1/2"	1-3/4"

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

PRODUCT:
LS18 STEEL DOOR

PART OR ASSEMBLY:
FRAME ANCHORING

REVISIONS

NO.	DATE	BY
6	7/02/26	LFS
5	7/05/23	LFS
4	9/08/20	LFS

DATE: 10/29/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

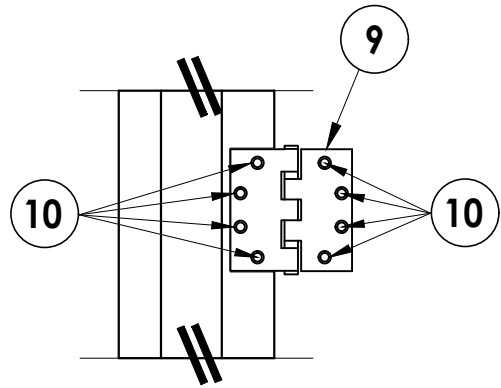
DRAWING NO.: FL-19036.2

SHEET 8 OF 10

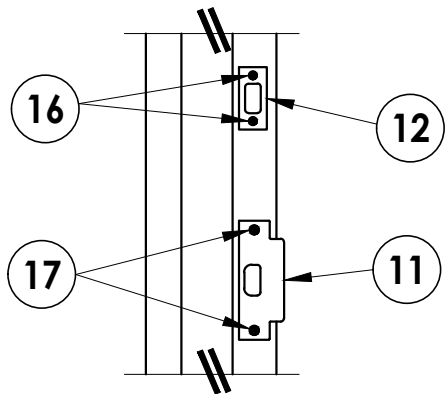
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BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

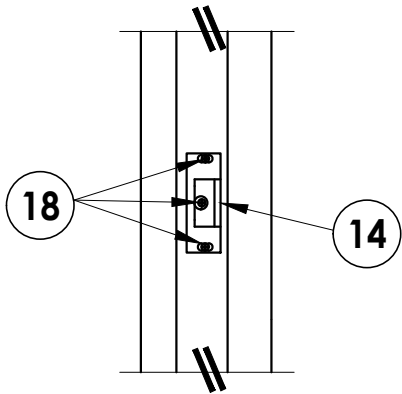
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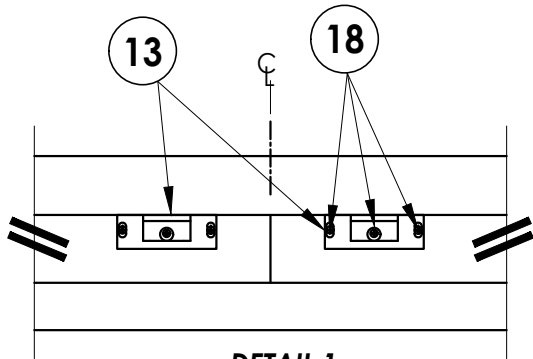
HINGE DETAIL



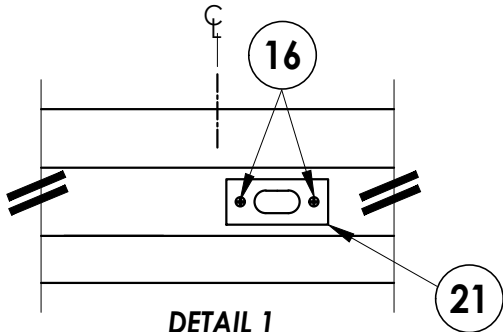
STRIKE DETAIL
Latch & Deadbolt



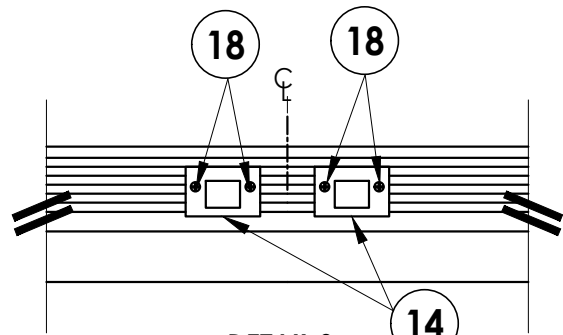
STRIKE DETAIL
Rim Exit Device



DETAIL 1
Vertical rod latch strike plate
@ head



DETAIL 1
Flush Bolt Strike Plate @ Head
(Inactive Door Panel)



DETAIL 2
Vertical rod latch strike plate
@ sill

DATE: 10/29/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
FL-19036.2
SHEET 9 OF 10

NO.	DATE	REVISIONS
6	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
5	7/05/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	9/08/20	UPDATE TO 7TH ED. (2020) FBC LFS

PRODUCT:	LS18 STEEL DOOR
PART OR ASSEMBLY:	HARDWARE DETAILS

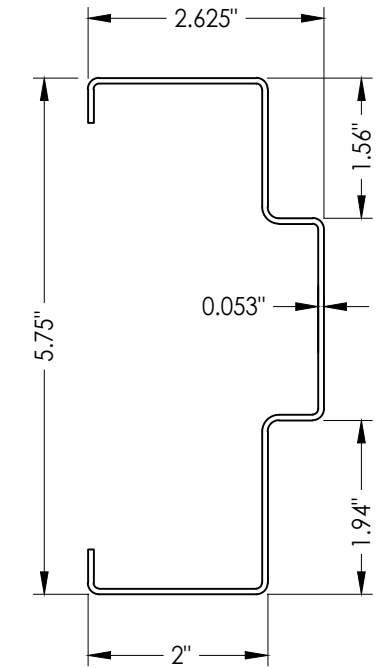
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

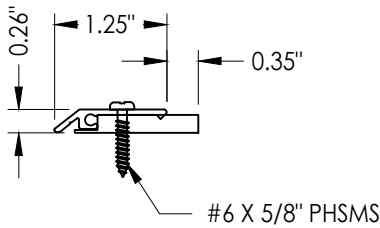
Z:\2023 FBC Drawings\Vision Hollow Metal\FL-19036 R11\FL-19036.1-2.dwg

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X STUD FRAMING (G>= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
H	1/4" X 1-3/4" PFH CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
J	3/8" X 5" PFH DYNABOLT SLEEVE ANCHOR (SEE CONCRETE ANCHOR TABLE)	STEEL
K	3/8" X 5" FH LAG SCREW (2-1/8" MIN. EMBEDMENT)	STEEL
L	3/8" Ø SMS (MUST PENETRATE MIN. 3 THREADS THROUGH STEEL STUD)	STEEL
M	3/8" X 5" LDT TAPCON CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
X	STEEL STUD (0.125" MIN. THK, Fu = 50 ksi, Fy = 33 ksi)	STEEL
1	HOLLOW METAL FRAME	-
2	REMOVABLE MULLION (PDQ 9200M-11 SERIES)	STEEL
3	"Z" ASTRAGAL	STEEL
4	ASTRAGAL (INTERIOR PEMKO #352CR)	STEEL
5	OUTSWING BUMP THRESHOLD	ALUM
6	ASTRAGAL GASKET (HAGER 849S)	-
7	WEATHERSTRIP (HAGER 736 PRESS-ON)	-
8	FRAME WEATHERSTRIP (HAGER 875S)	-
9	HINGE 4.5" X 4.5"	STEEL
10	#12-24 x 1/2" FH MACHINE SCREW	STEEL
11	LATCH STRIKE PLATE	STEEL
12	DEADBOLT STRIKE PLATE	STEEL
13	VERTICAL ROD STRIKE PLATE	STEEL
14	RIM EXIT DEVICE STRIKE	STEEL
16	#8 x 3/4" FH SCREWS	STEEL
17	#12 x 13/16" FH SCREWS	STEEL
18	#12 x 1-1/8" PH SMS	STEEL
20	HINGE REINFORCEMENT (10 GA.)	STEEL
21	FLUSH BOLT GUIDE (0.050" THK.)	STEEL
22	FLUSH BOLT FRAME REINFORCMENT (16 GA)	STEEL
30	EMA PIPE ANCHOR (18 GA)	STEEL
31	EMA BUTTERFLY ANCHOR (18 GA)	STEEL
32	MASONRY WIRE ANCHOR	STEEL
40	GLAZED STEEL DOOR PANEL (8'-0" DOOR)	STEEL
41	GLAZED STEEL DOOR PANEL (7'-0" DOOR)	STEEL
42	LOUVERED STEEL DOOR PANEL (8'-0" DOOR)	STEEL

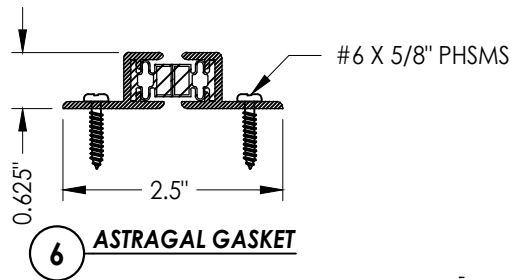
CORROSION RESISTANCE - SALTWATER ENVIRONMENTS
Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.



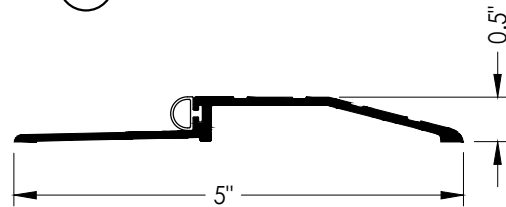
1 HOLLOW METAL FRAME



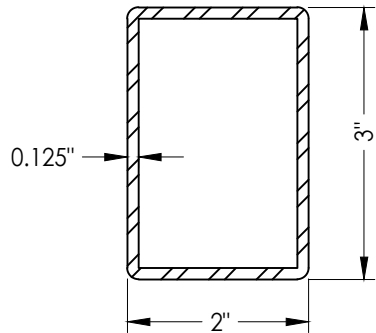
8 FRAME WEATHERSTRIP



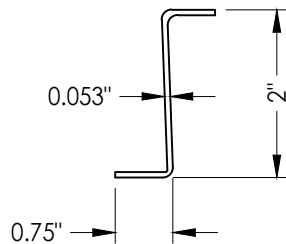
6 ASTRAGAL GASKET



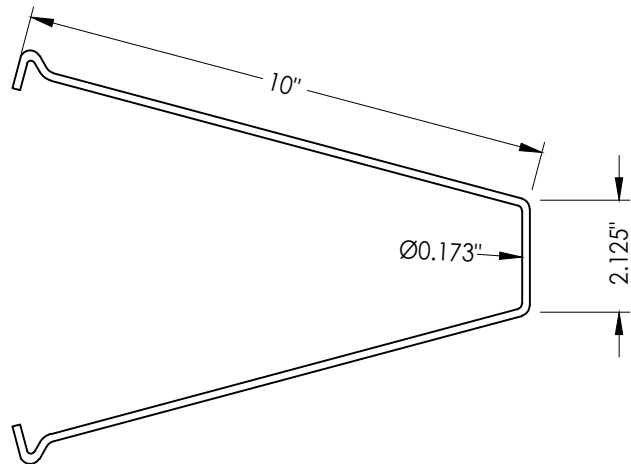
5 OUTSWING BUMP THRESHOLD
HAGER 477S



2 MULLION
PDQ 9200M-11 SERIES



3 "Z" ASTRAGAL



32 MASONRY WIRE ANCHOR
60 KSI MIN.

Documents Prepared By:
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RW BUILDING CONSULTANTS, INC.
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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:

LS18 STEEL DOOR

PART OR ASSEMBLY:

BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS
6	7/02/26	UPDATE TO 9TH ED. (2026) FBC LFS
5	7/05/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	9/08/20	UPDATE TO 7TH ED. (2020) FBC LFS

DATE: 10/29/15

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-19036.2

SHEET 10 OF 10