

Vision Hollow Metal Limited

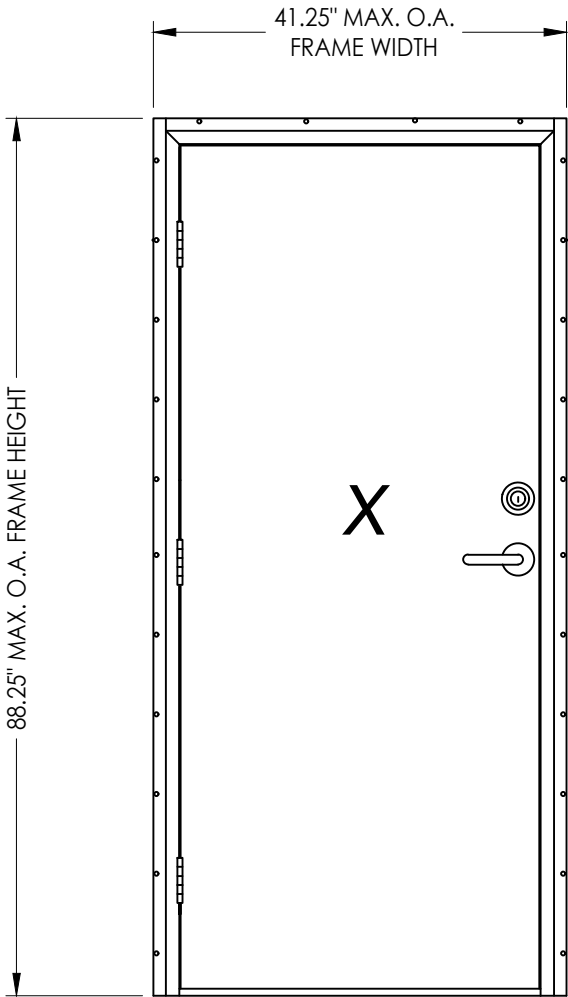
400 Zenway Blvd. Unit #1
Woodbridge, ON L4H OS7

LS20 STEEL DOOR
in a
16 GA. HOLLOW METAL FRAME
w/ NAILING FLANGE
OUTSWING
"IMPACT"

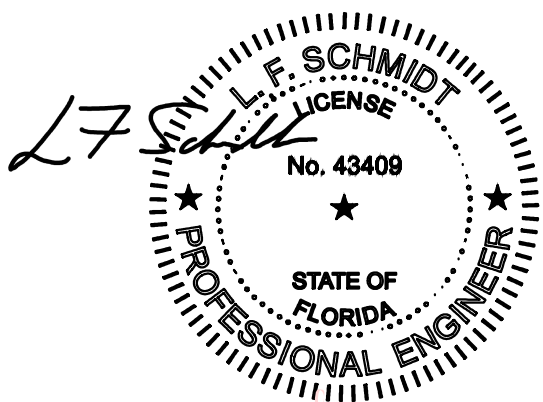
GENERAL NOTES

1. This product has been evaluated and is in compliance with the 8th Edition (2023) Florida Building Code (FBC) structural requirements 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 E 1996 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 elevations, design pressures, & general notes
2	Door panel details
3	Elevation & horizontal cross sections
4	Vertical cross sections
5	Frame anchoring
6	Bill of materials & components



MAX. OVERALL DIMENSION	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
41.25" X 88.25"	+65.0	-65.0



Digitally signed by Lyndon F Schmidt
Date: 2023.07.05 15:50:00 -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

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

PRODUCT:
VISION HOLLOW METAL

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

DATE: 8/30/22

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:
FL-19036.11

SHEET 1 OF 6

27/05/23
1
NO.

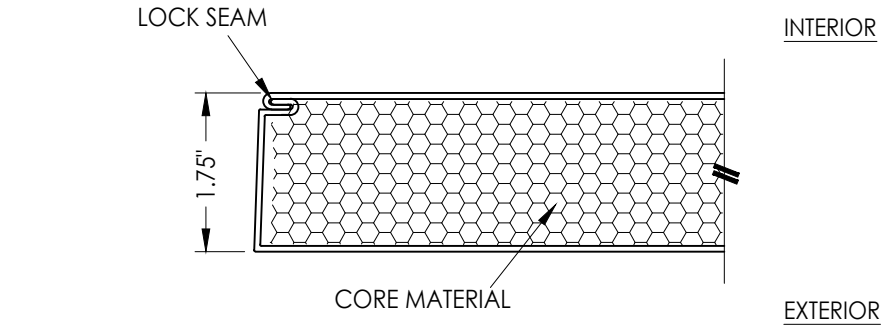
7/05/23
1
DATE

UPDATE TO 8TH ED. (2023) FBC
ADD HONEYCOMB CORE OPTION

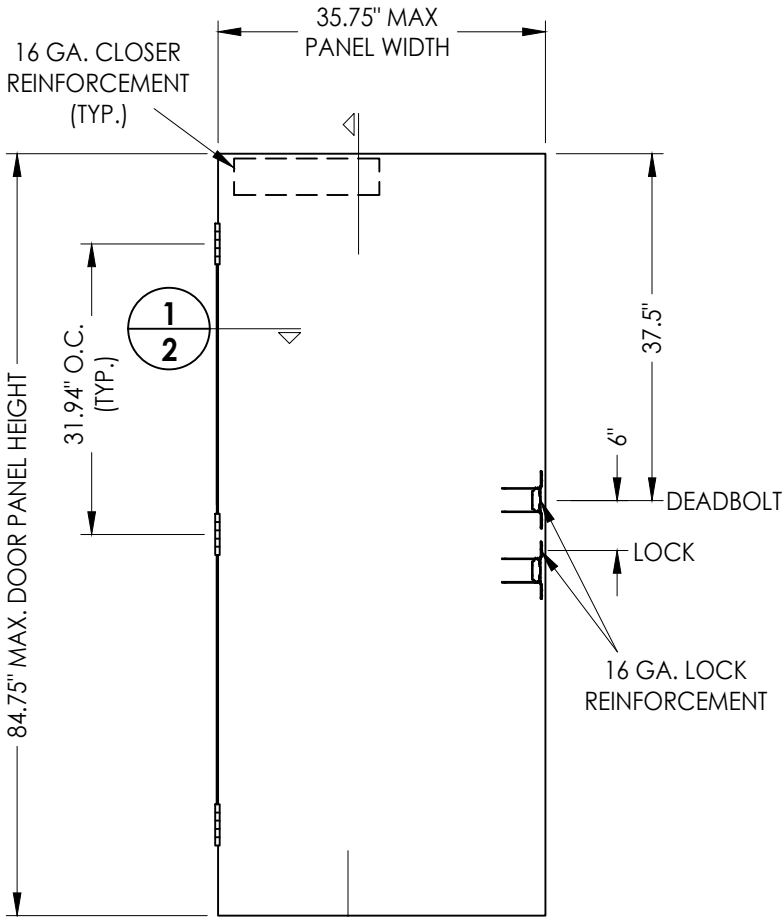
REVISIONS

Building Consultants, Inc.
P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

R:\2023 FBC Drawings\Vision Hollow Metal\FL-19036 R9\FL-19036.11.dwg

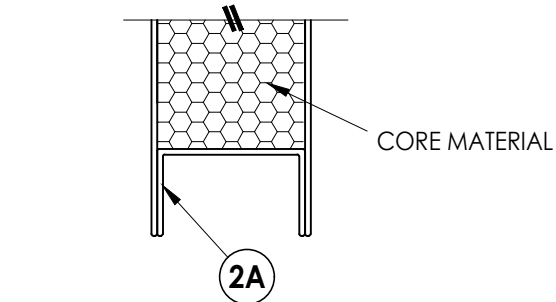
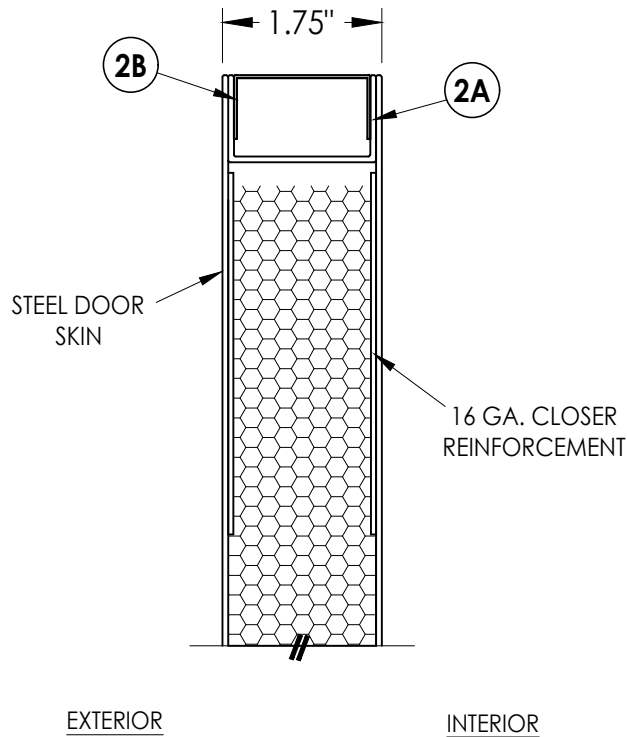
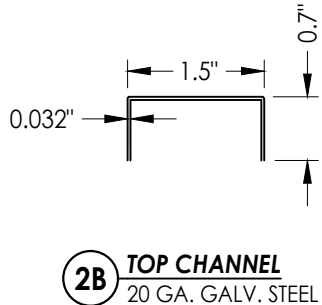
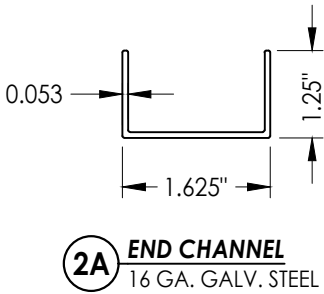


1 HORIZONTAL CROSS SECTION
2



2 OPAQUE DOOR PANEL
7'-0" Door w/ Cylindrical Lock & Deadbolt

STEEL DOOR SKIN: 20 GA. (MIN. 0.032" THK.) GALV. STEEL
CORE MATERIAL: EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)
OR ALTERNATE HONEYCOMB CORE



2 VERTICAL CROSS SECTION
2

HARDWARE TABLE	
MANUFACTURER	MODEL
HAGER	LEVER: 2500 SERIES - GRADE 2 DEADBOLT: 3200 SERIES - GRADE 2

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:
VISION HOLLOW METAL

PART OR ASSEMBLY:

DOOR
PANEL DETAILS

NO.	DATE	REVISIONS
2	7/05/23	UPDATE TO 8TH ED. (2023) FBC
1	01/26/23	ADD HONEYCOMB CORE OPTION

DATE: 8/30/22

SCALE: N.T.S.

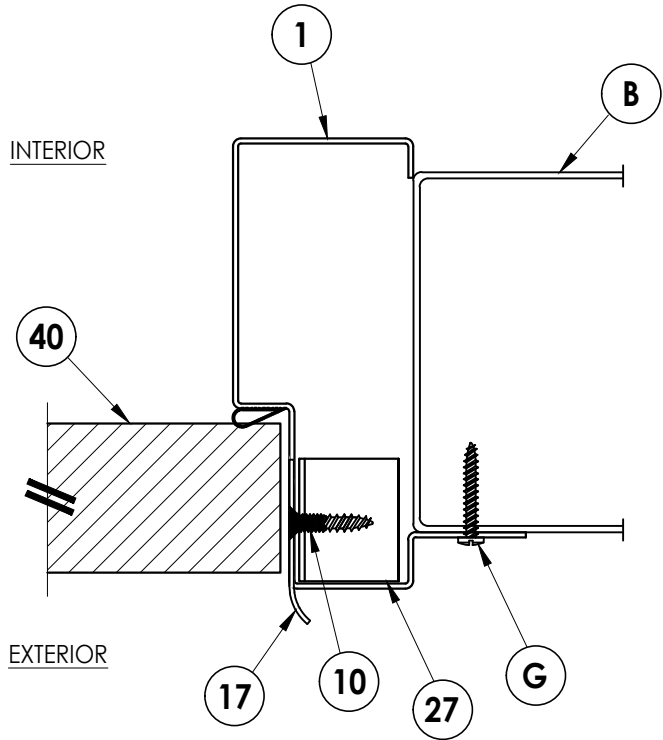
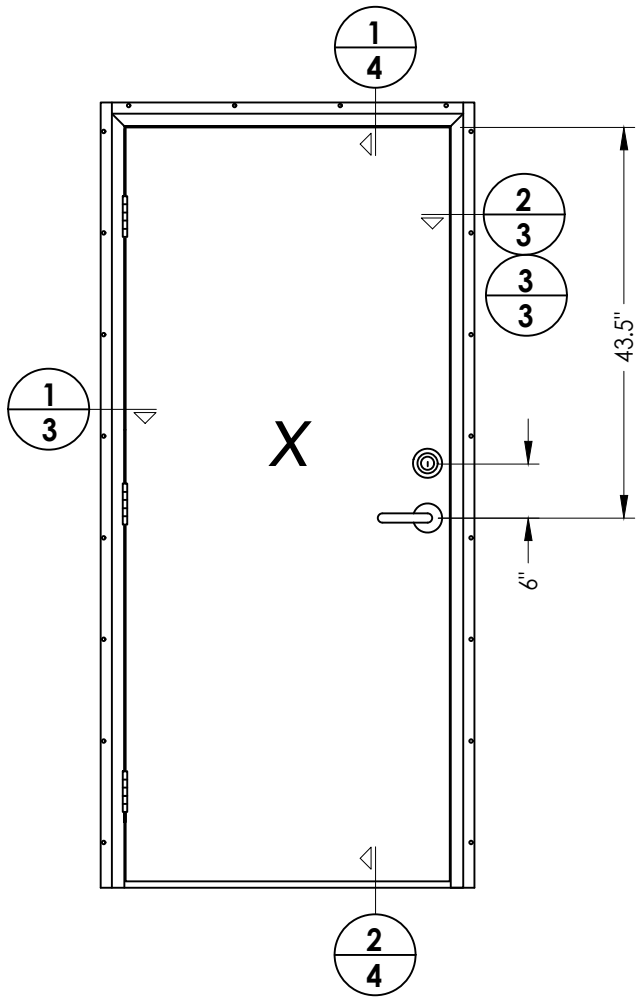
DWG. BY: LFS

CHK. BY: RW

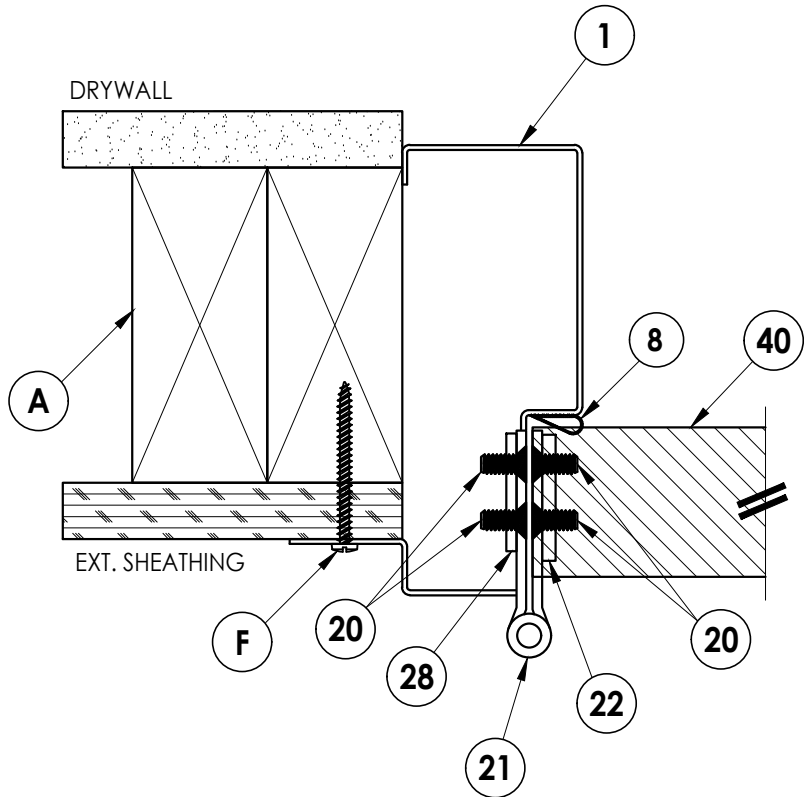
DRAWING NO.: FL-19036.11

SHEET 2 OF 6

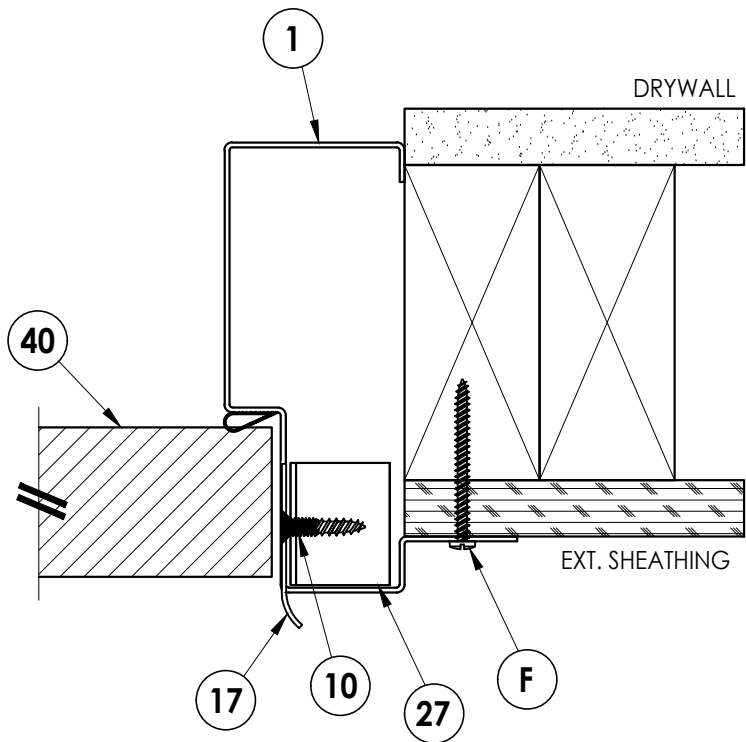
R:\2023 FBC Drawings\Vision Hollow Metal\FL-19036 R9\FL-19036.11.dwg



3 **HORIZONTAL CROSS SECTION**
3 Steel Stud Installation

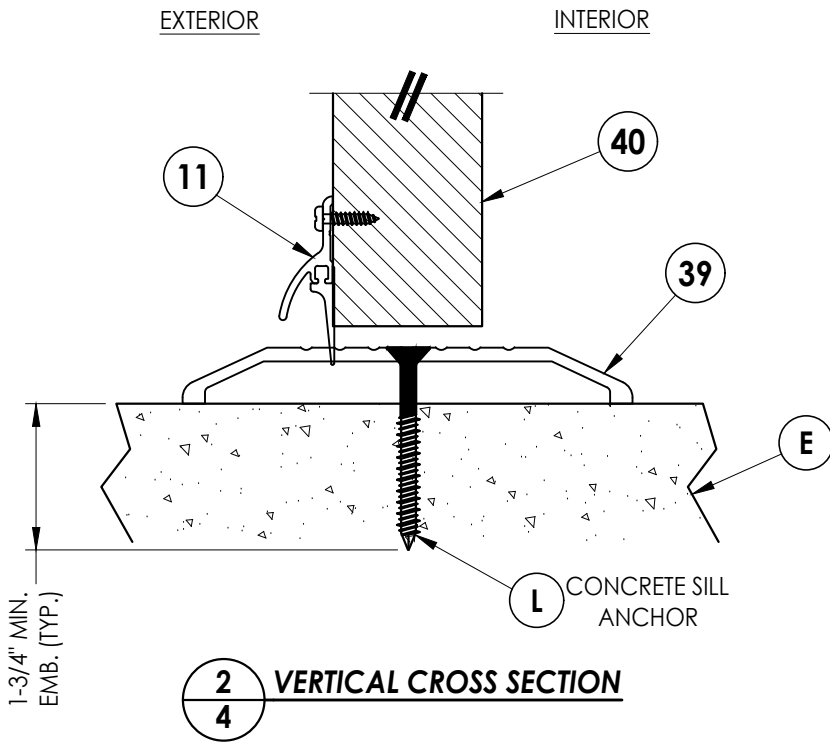
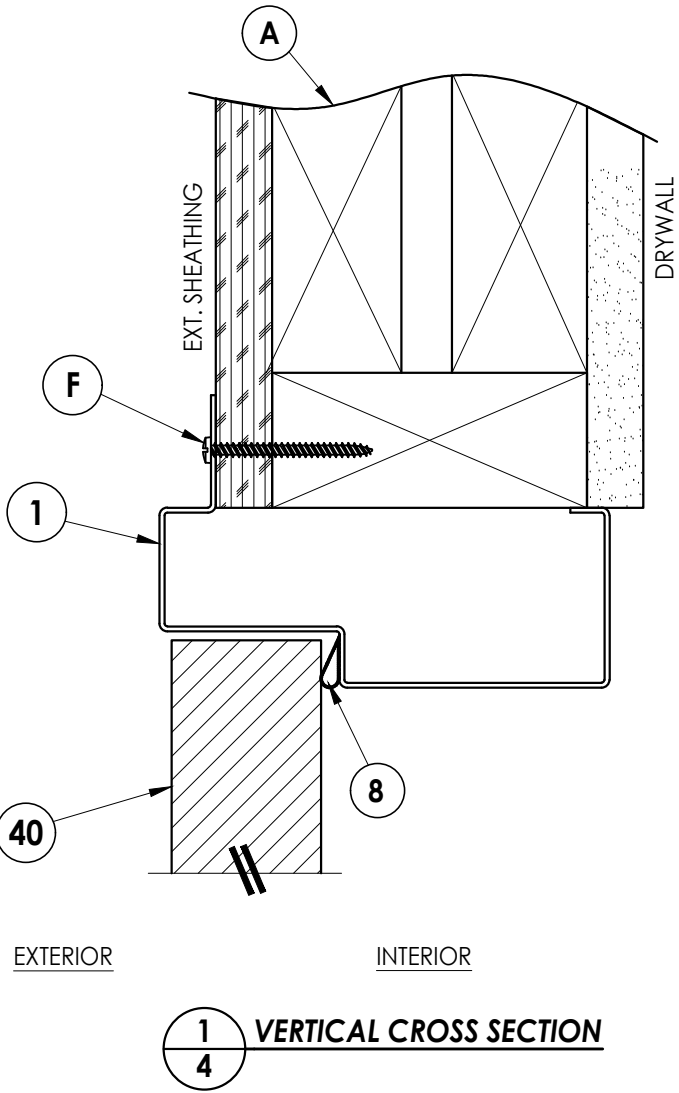


1 **HORIZONTAL CROSS SECTION**
3 Wood Stud Installation



2 **HORIZONTAL CROSS SECTION**
3 Wood Stud Installation

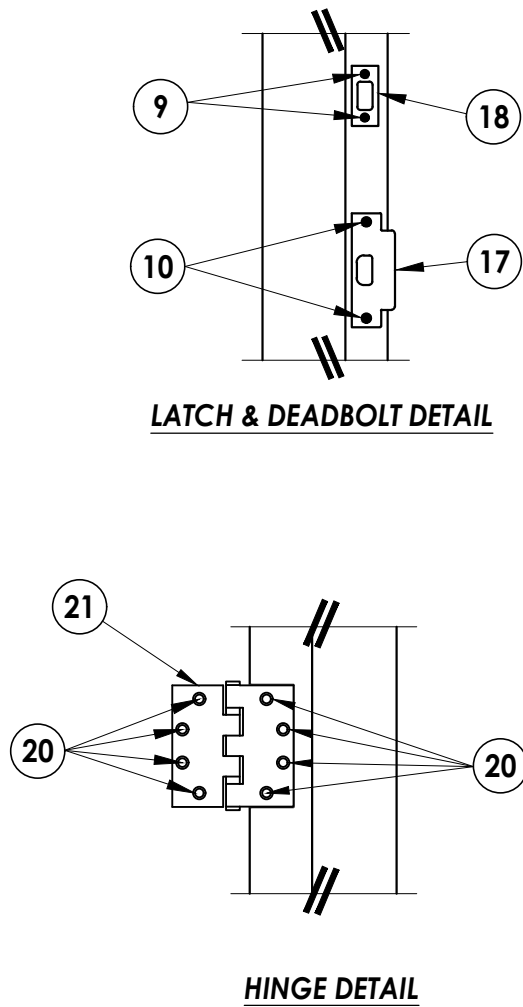
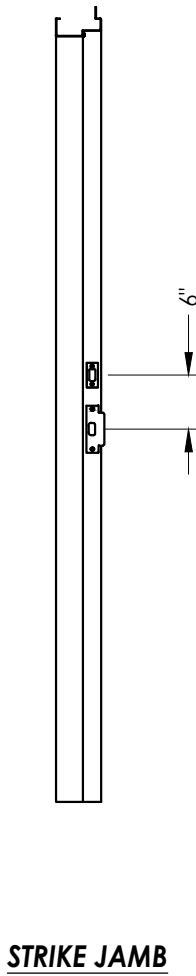
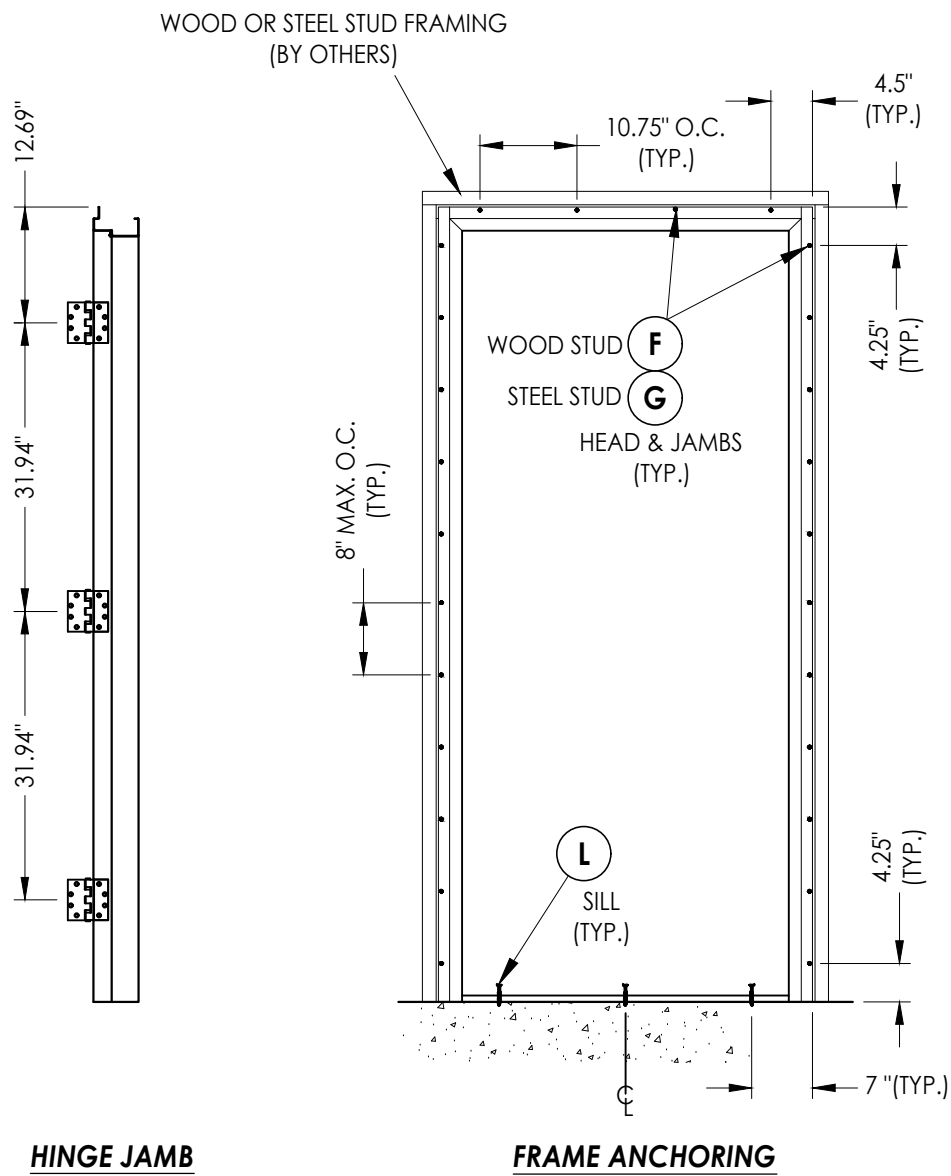
Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409				BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813			
PRODUCT: VISION HOLLOW METAL				PART OR ASSEMBLY: ELEVATIONS			
				LFS	FBC	LFS	BY
				2	7/05/23	UPDATE TO 8TH ED. (2023)	
				1	01/26/23	ADD HONEYCOMB CORE OPTION	
				NO.	DATE		
				REVISIONS			
DATE: 8/30/22							
SCALE: N.T.S.							
DWG. BY: LFS							
CHK. BY: RW							
DRAWING NO.: FL-19036.11							
SHEET 3 OF 6							



2	7/05/23	UPDATE TO 8TH ED. (2023) FBC						LFS	
1	01/26/23	ADD HONEYCOMB CORE OPTION						LFS	
NO.	DATE							BY	
									REVISIONS
DATE: 8/30/22									
SCALE: N.T.S.									
DWG. BY: LFS									
CHK. BY: RW									
DRAWING NO.: FL-19036.11									
SHEET 4 OF 6									

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



CONCRETE ANCHOR NOTES:

1. 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.
2. 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"

2	7/05/23	UPDATE TO 8TH ED. (2023)	FBC	LFS	
1	01/26/23	ADD HONEYCOMB CORE OPTION		LFS	
NO.	DATE			BY	
					REVISIONS

DATE: 8/30/22

SCALE: *N.T.S.*

DWG. BY: *LFS*

CHK. BY: RW

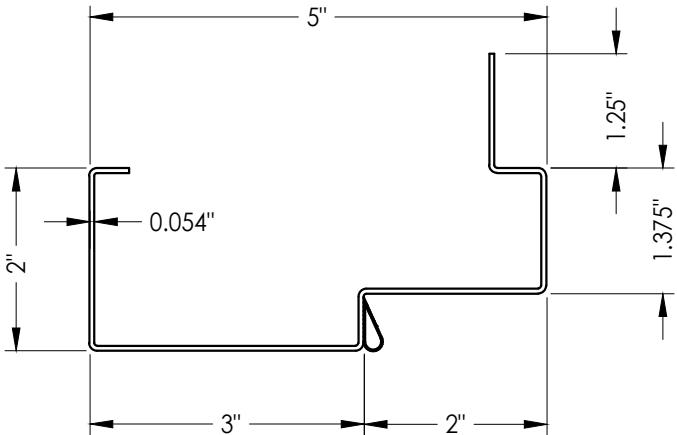
DRAWING NO.:
FL-19036.11

SHEET 5 OF 6

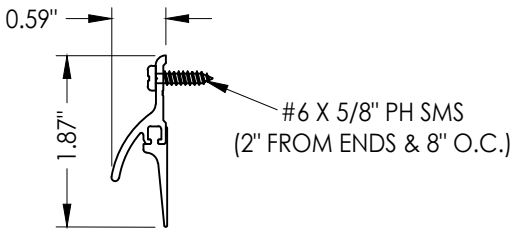
Documents Prepared By:
Lyndon F. Schmidt
P.E. No. 43409

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

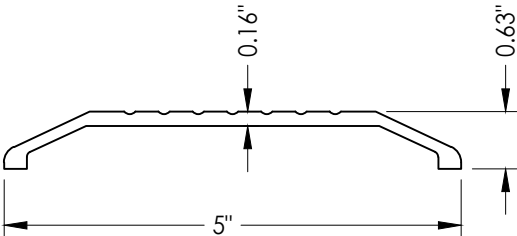
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
A	2X STUD FRAMING (G>= 0.42)	WOOD
B	STEEL CHANNEL (16 GA. - 0.054" THICK)	STEEL
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
F	#8 X 1" PH SMS	STEEL
G	#8 X 1-1/2" PH SMS	STEEL
L	1/4" X 2-1/4" PFH CONCRETE SCREW (SEE CONCRETE ANCHOR TABLE)	STEEL
1	HOLLOW FRAME w/ FLANGE (16 GA.)	STEEL
8	WEATHERSTRIP	NEOPRENE
9	#8-32 X 3/4" COMB. MACHINE/WOOD SCREW	STEEL
10	#12-24 X 3/4" COMB. MACHINE/WOOD SCREW	STEEL
11	DOOR BOTTOM SWEEP	ALUM/PVC
14	#14-20 X 1" PFH MACHINE SCREW	STEEL
15	#10 X 1" PH SMS	STEEL
17	LATCH STRIKE PLATE	STEEL
18	DEADBOLT STRIKE PLATE	STEEL
20	#12-24 X 1/2" PFH MACHINE SCREW	STEEL
21	4-1/2" X 4-1/2" X HINGE	STEEL
22	DOOR HINGE REINFORCEMENT (10 GA.)	STEEL
27	FRAME LATCH STRIKE REINFORCEMENT (12 GA.)	STEEL
28	FRAME HINGE REINFORCEMENT (10 GA.)	STEEL
30	EMA PIPE ANCHOR (18 GA)	STEEL
31	FRAME DEADBOLT REINFORCEMENT	STEEL
39	ADA THRESHOLD	ALUM
40	DOOR PANEL	-



1 HOLLOW METAL FLANGE FRAME
16 GA.



11 DOOR BOTTOM SWEEP
HAGER 770S



39 ADA THRESHOLD
GLOBAL BUILDING PRODUCTS

Documents Prepared By: Lyndon F. Schmidt P.E. No. 43409										R^gW BUILDING CONSULTANTS, INC. P.O. Box 230, Valrico, FL 33595 Phone No.: 813.659.9197 FBPE Registry No. 9813									
PRODUCT:										PART OR ASSEMBLY:									
VISION HOLLOW METAL										BILL OF MATERIALS & COMPONENTS									
										</									