

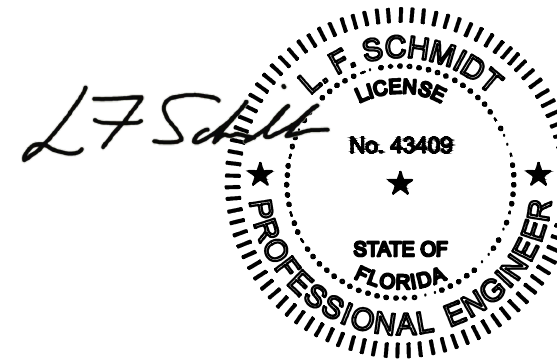
400 Zenway Blvd. Unit #1
Woodbridge, ON L4H 0S7

**LS18 STEEL DOOR
w/ or w/out VISION LITE
INSWING/OUTSWING
"IMPACT"**

GENERAL NOTES

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. When used in areas outside of the "HVHZ" 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 includes Wind Zone 4 as defined in ASTM E 1996.
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.

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SHEET #	DESCRIPTION
1	Typical elevations, design pressures, & general notes
2	Door panel details
3	Elevations & vertical cross sections
4	Horizontal cross sections
5	Horizontal cross sections
6	Frame anchoring
7	Frame anchoring
8	Bill of materials & components

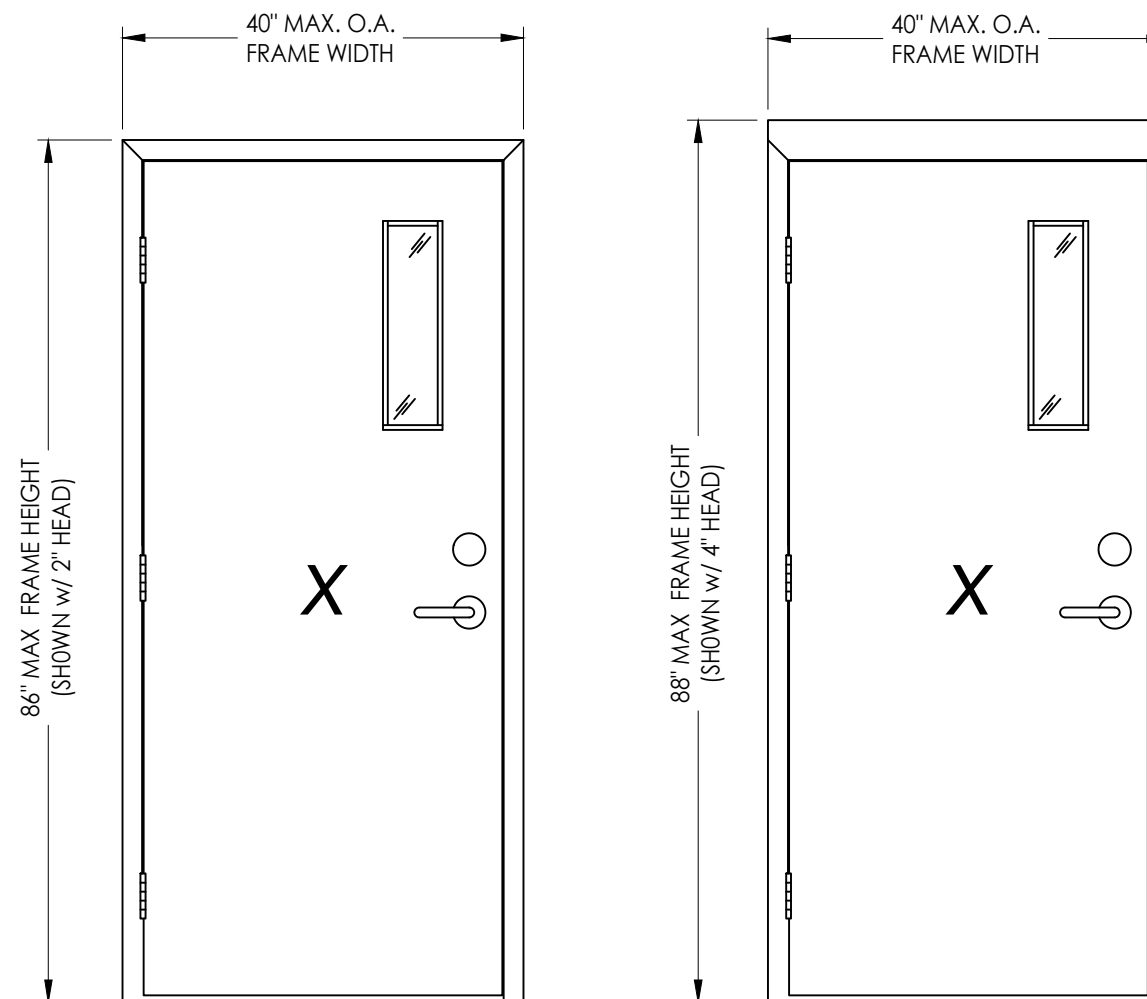


Digitally signed by Lyndon F
Schmidt
Date: 2026.08.17 15:27:33 -04'00'

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



SHOWN w/ CYLINDRICAL LEVER LOCK & OPTIONAL DEADBOLT

MAX. OVERALL DIMENSION	DESIGN PRESSURE (PSF) IN SWING		DESIGN PRESSURE (PSF) OUT SWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
40.0" X 88.0"	+60.0	-65.0	+58.0	-58.0

SEE SHEETS 4-7 FOR DESIGN PRESSURE LIMITATIONS

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

RW BUILDING CONSULTANTS, INC.
P.O. Box 230, Valrico, FL 33486
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT: VISION HOLLOW METAL

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

[illegible]

DATE: 12/14/23

SCALE: N.T.S.

DWG. BY: *LFS*

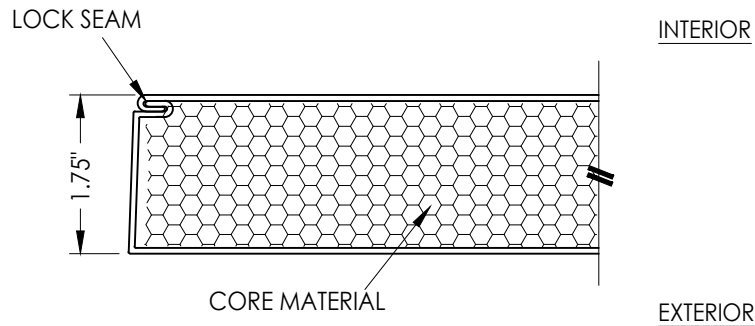
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DRAWING NO.:

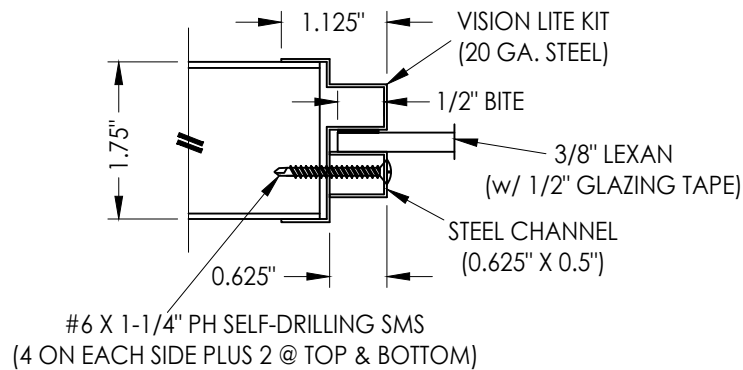
FL-19036.14

SHEET 1 OF 8

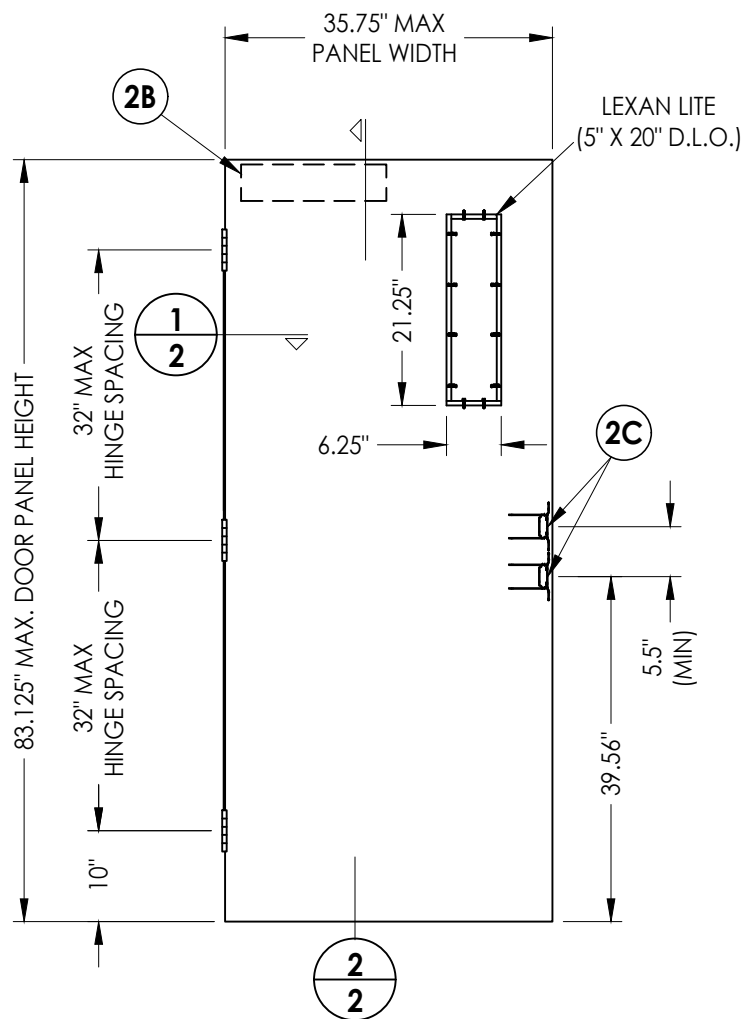
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1 HORIZONTAL CROSS SECTION

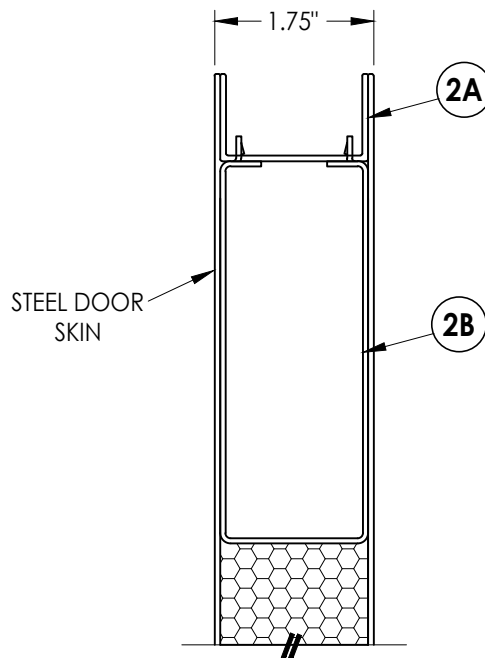


P1 LEXAN LITE DETAIL

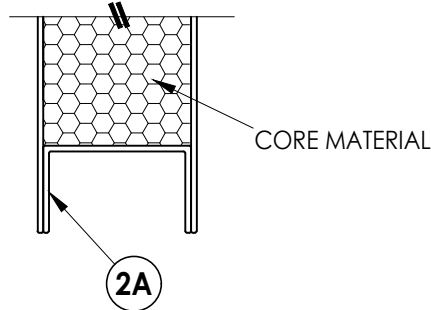


40 STEEL DOOR PANEL
7'-0" Steel Door
w/ or w/out Vision Lite

LOCK HARDWARE
LEVER: DOREX F SERIES (FH53)
DEADBOLT (OPTIONAL): HAGER 3200 SERIES or SCHLAGE B60N

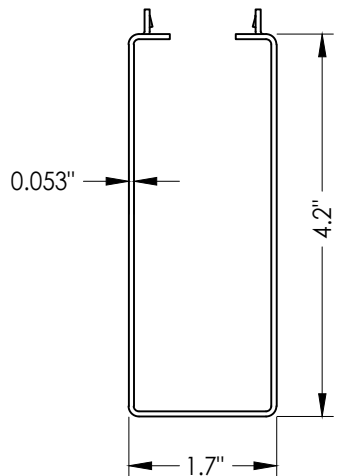


EXTERIOR INTERIOR

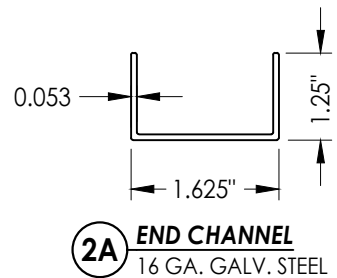


2A

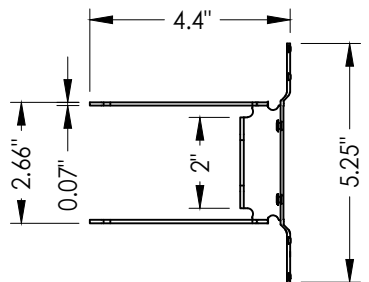
2 VERTICAL CROSS SECTION



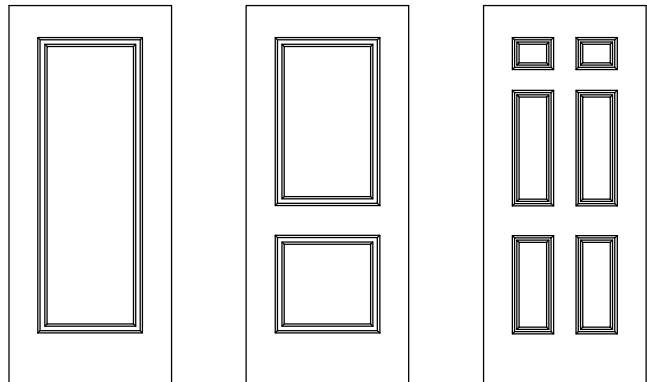
2B CLOSER BOX
16 GA. GALV. STEEL



2A END CHANNEL
16 GA. GALV. STEEL



2C CYLINDRICAL LOCK REINFORCEMENT
18 GA. GALV. STEEL



OPTIONAL EMBOSSED PANELS
w/out VISION LITE

STEEL DOOR SKIN: 18 GA. (MIN. 0.042" THK.) GALV. STEEL (Fy = 50,400 PSI MIN.)
CORE MATERIAL: HONEYCOMB CORE OR EPS FOAM (POLYSTYRENE - 1.0 PCF MIN. DENSITY)

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P.O. Box 230, Valrico, FL 33595
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FBPE Registry No. 9813

PRODUCT:
VISION HOLLOW METAL

PART OR ASSEMBLY:

DOOR
PANEL DETAILS

NO.	DATE	REVISIONS
1	7/02/26	UPDATE TO 9TH ED. (2026) FBC
		LFS
		BY

DATE: 12/14/23

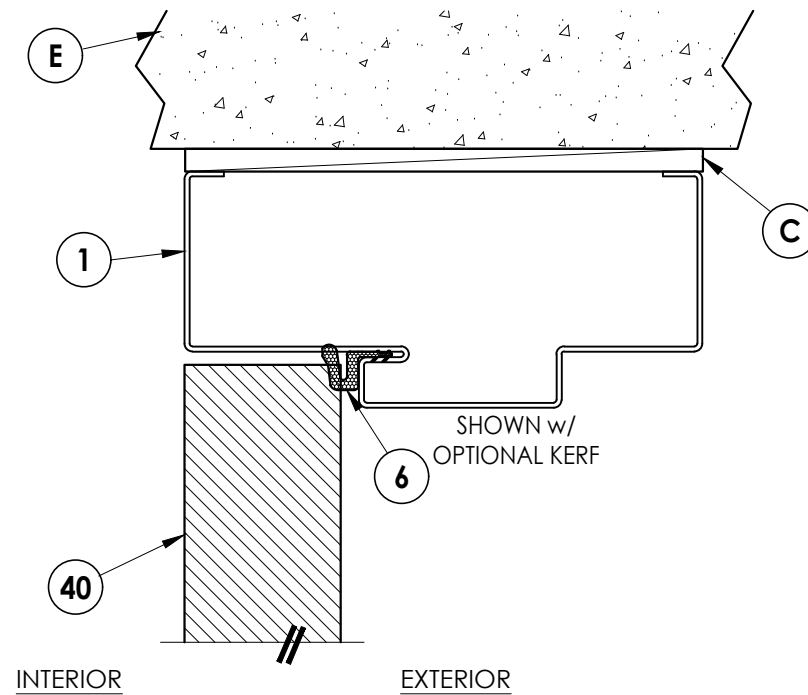
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DWG. BY: LFS

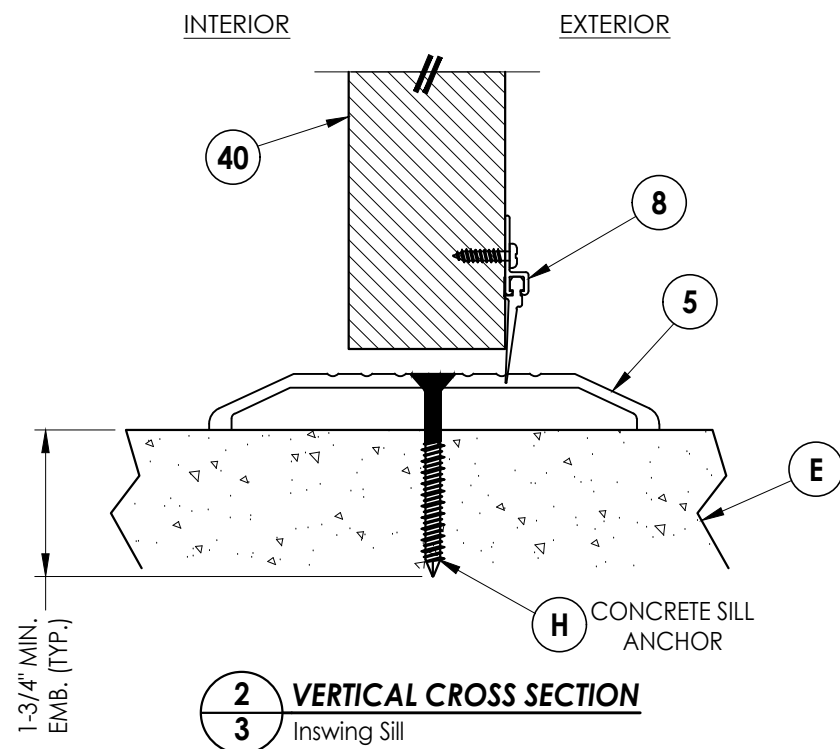
CHK. BY: RW

DRAWING NO.: FL-19036.14

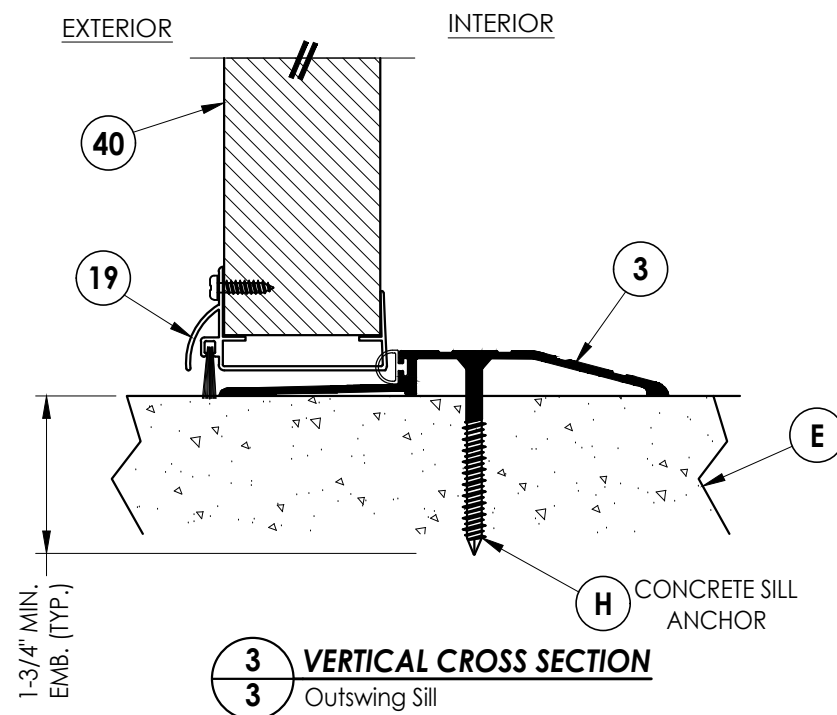
SHEET 2 OF 8



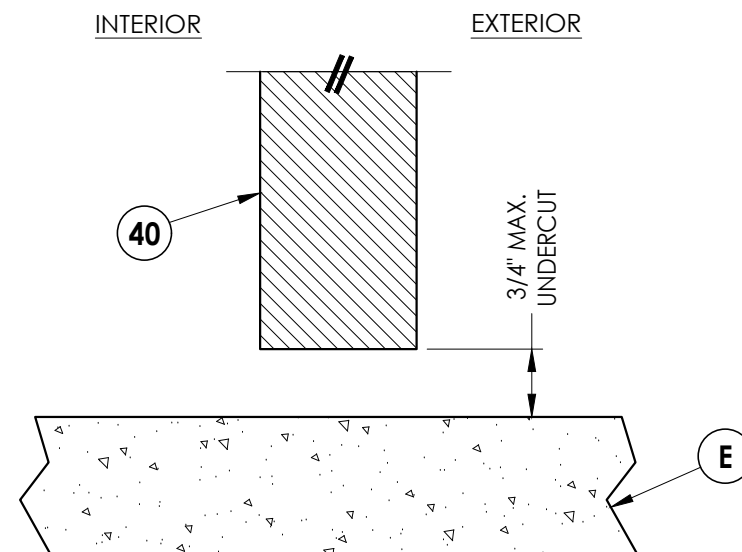
1 3 **VERTICAL CROSS SECTION** Inswing Shown (Outswing Similar)

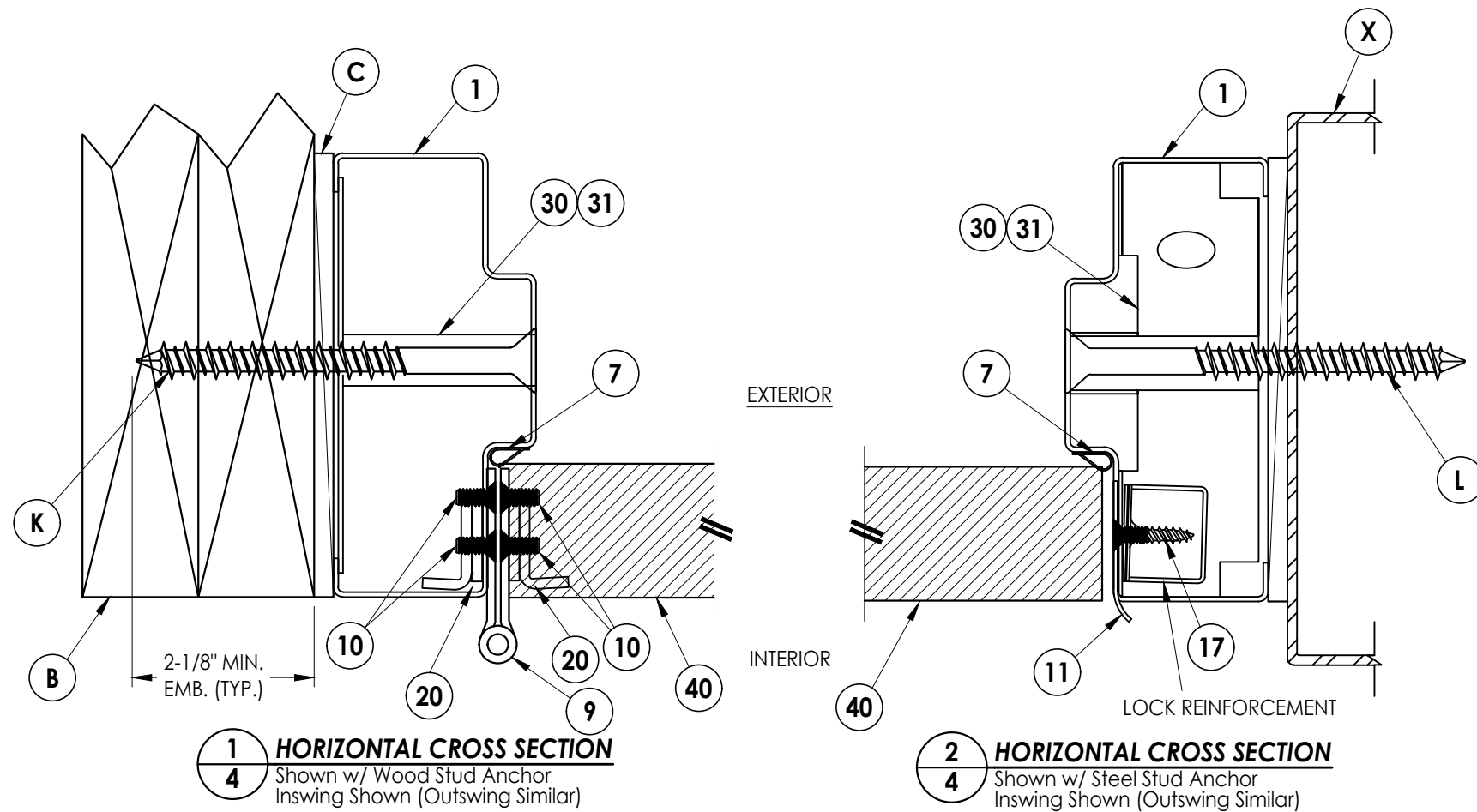


3 VERTICAL CROSS SECTION
3 Outswing Sill

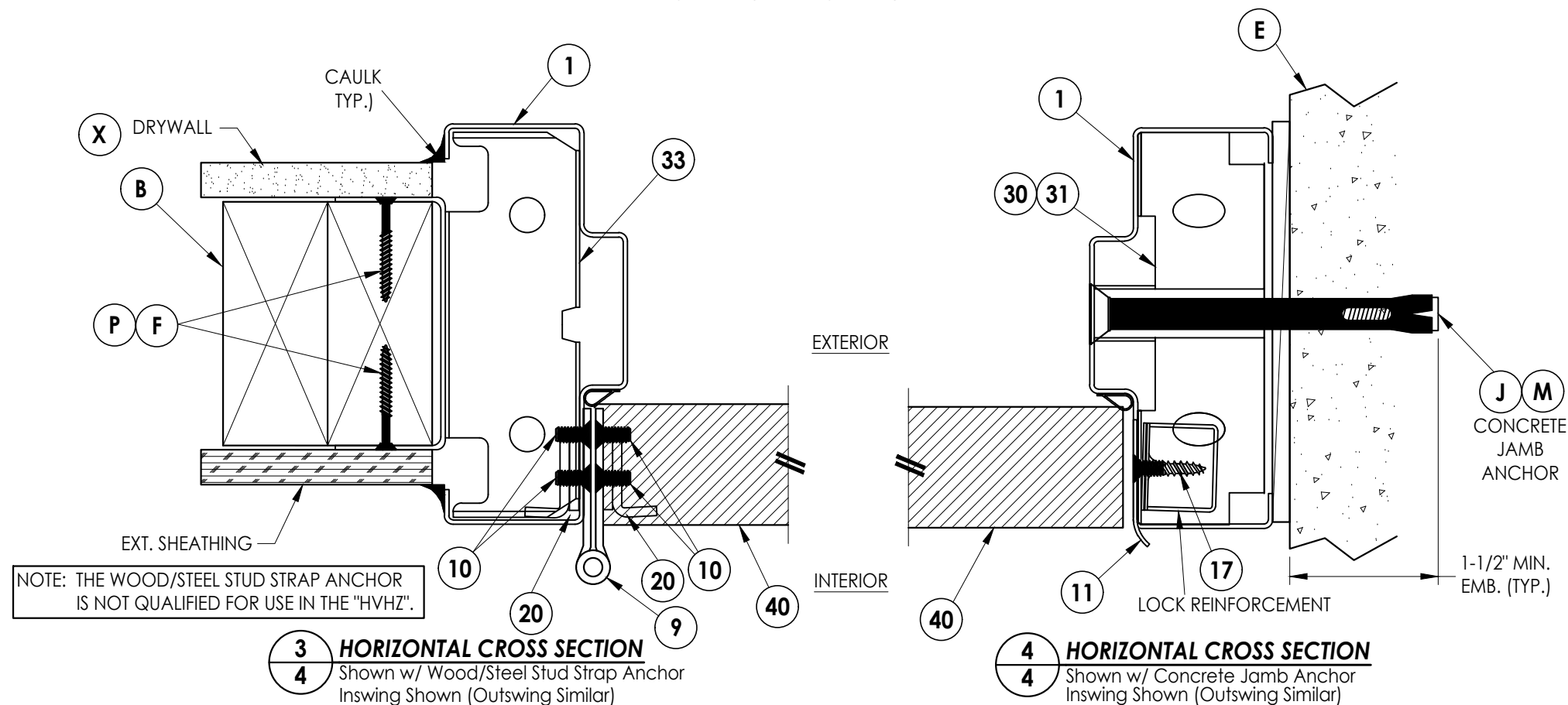


4 **VERTICAL CROSS SECTION** 3 Inswing Shown (Outswing Similar)

[illegible]



MAXIMUM DESIGN PRESSURE (PSF) FOR ANCHORING SHOWN ON THIS SHEET			
INSWING		OUTSWING	
POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
+50.0	-60.0	+55.0	-55.0



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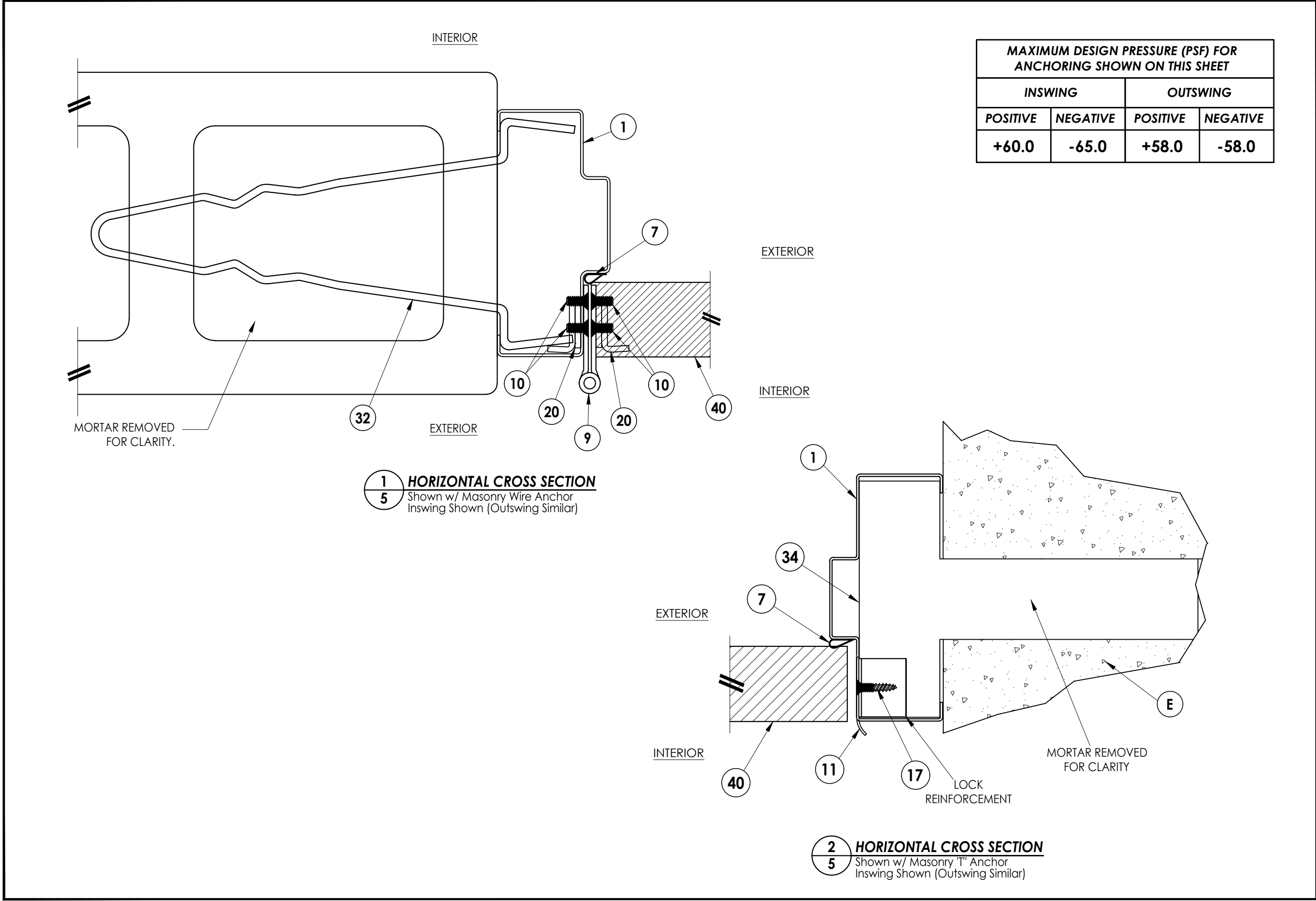
PRODUCT: VISION HOLLOW METAL

PART OR ASSEMBLY:
**HORIZONTAL
CROSS SECTIONS**

[illegible]

DATE:	12/14/23
SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-19036.14
SHEET	4 OF 8

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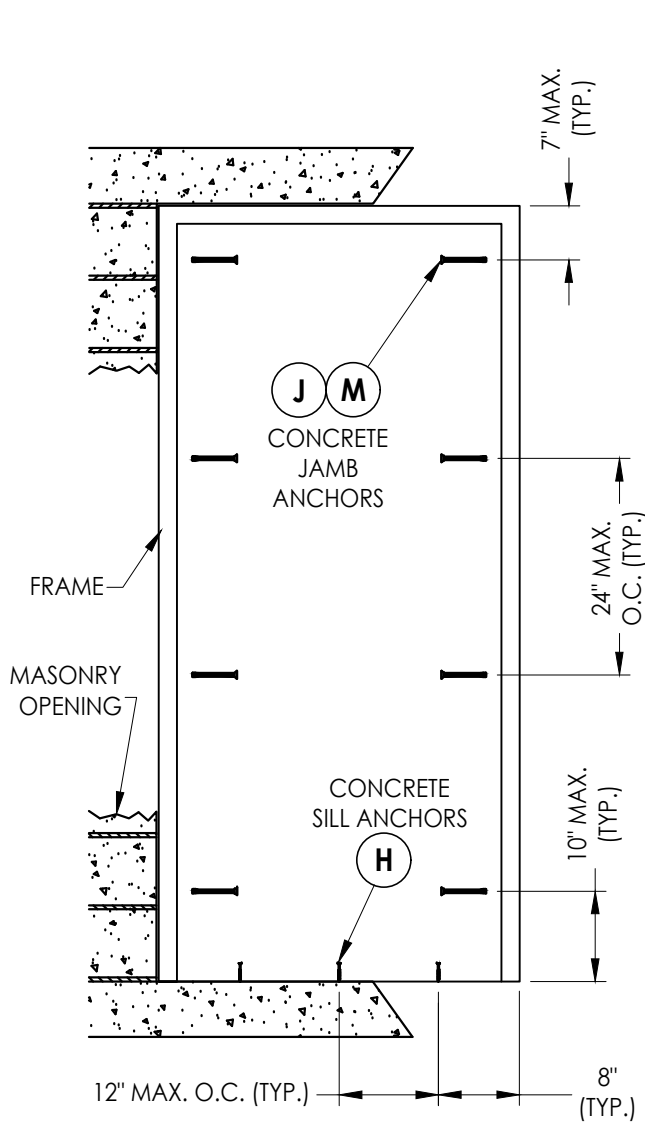
PRODUCT:		VISION HOLLOW METAL	
PART OR ASSEMBLY:		HORIZONTAL CROSS SECTIONS	
NO.	DATE	LFS	BY
1	7/02/26	UPDATE TO 9TH ED. (2026)	FBC
REVISIONS			
DATE: 12/14/23			
SCALE: N.T.S.			
DWG. BY: LFS			
CHK. BY: RW			
DRAWING NO.: FL-19036.14			
SHEET 5 OF 8			

Documents Prepared By:
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Phone No.: 813.659.9197
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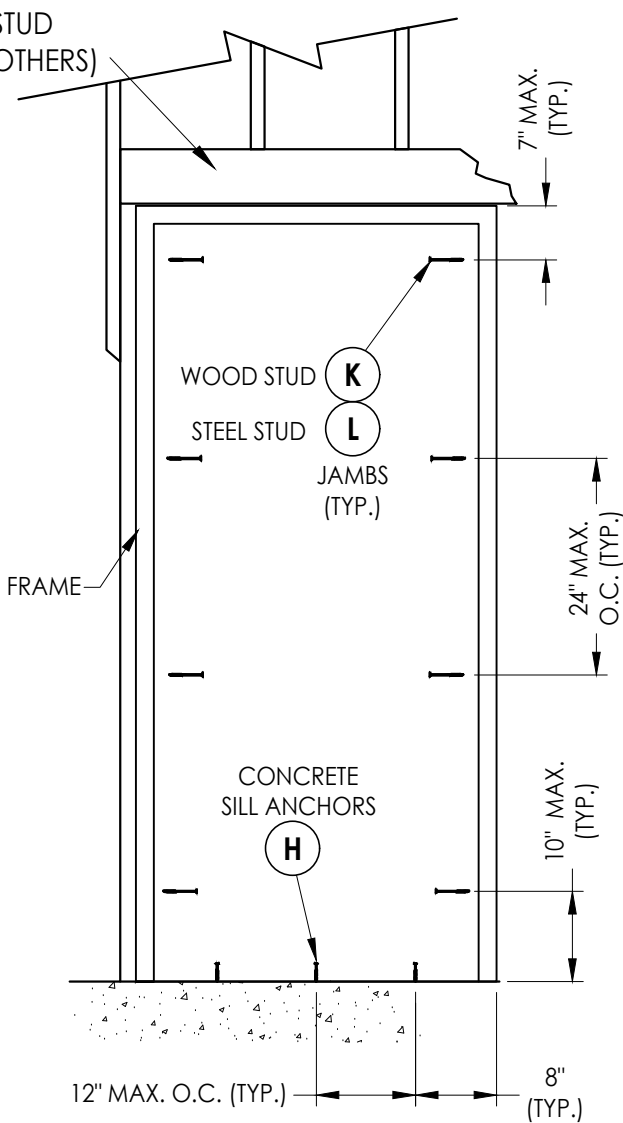
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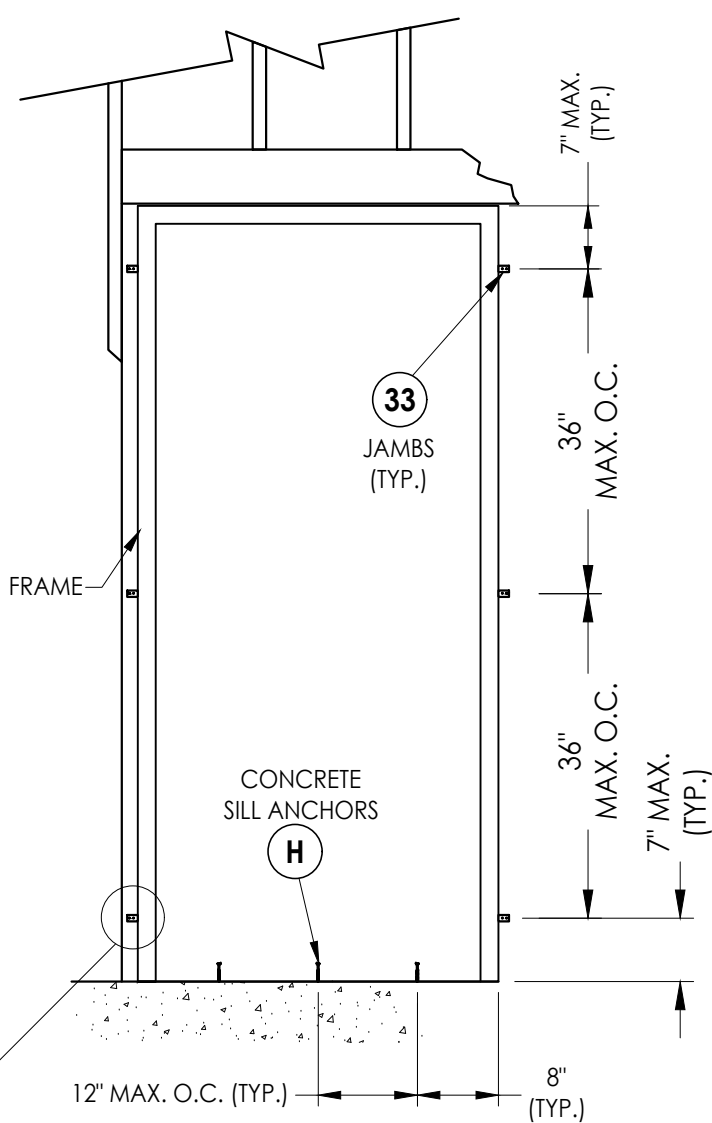
FRAME ANCHORING

Masonry Construction
Concrete Anchors



FRAME ANCHORING

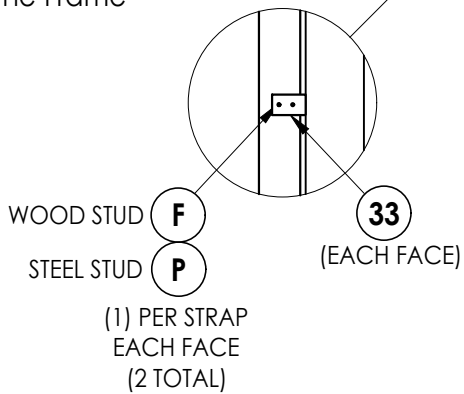
Wood/Steel Stud
Through the Frame



FRAME ANCHORING

Wood/Steel Stud
Strap Anchors

NOTE: WOOD/STEEL STUD STRAP ANCHOR INSTALLATION
IS NOT QUALIFIED FOR USE IN THE "HVHZ"



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:

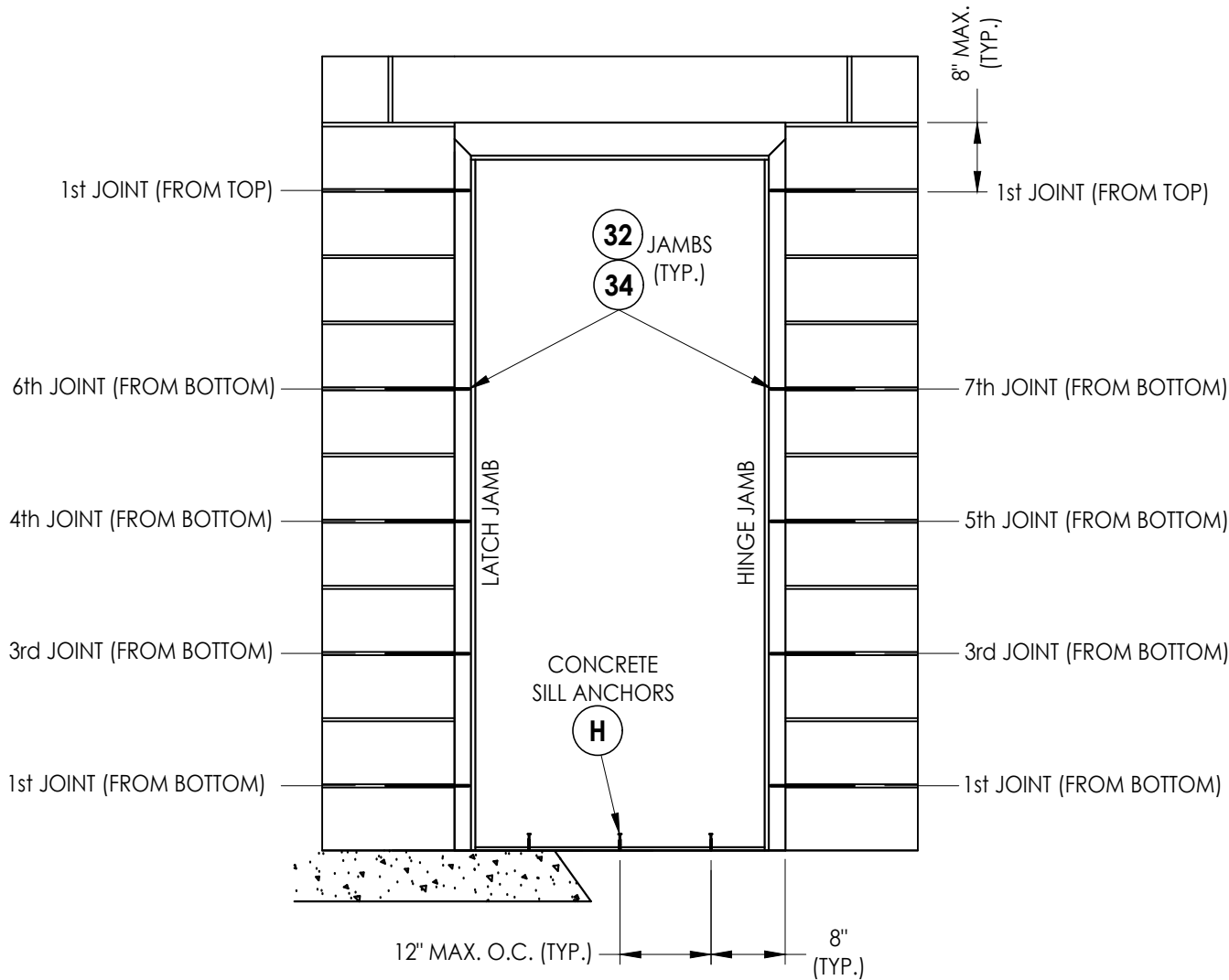
ANCHOR TYPE	ANCHOR LOCATION	ANCHOR SIZE	MANUFACTURER	MIN. EDGE DISTANCE	MIN. EMBEDMENT
CONCRETE ANCHOR SCREW	JAMBS	3/8"	LDT TAPCON® (ITW BUILDEX)	3"	1-1/2"
	SILL	1/4"	TAPCON® (ITW BUILDEX) ULTRACON+® (DeWALT) TAPPER+® (POWERS)	2-1/2"	1-3/4"
CONCRETE SLEEVE ANCHOR	JAMBS	3/8"	DYNABOLT SLEEVE ANCHOR® (ITW REDHEAD)	2-1/4"	1-1/2"

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.

MAX. OVERALL DIMENSION	MAXIMUM DESIGN PRESSURE (PSF) FOR ANCHORING SHOWN ON THIS SHEET			
	INSWING		OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
40.0" X 86.0" w/ MAX. 2" HEAD	+50.0	-60.0	+55.0	-55.0

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: FRAME ANCHORING		REVISIONS			
				1	7/02/26	UPDATE TO 9TH ED. (2026) FBC	LFS
				NO.	DATE		BY
DATE: 12/14/23							
SCALE: N.T.S.							
DWG. BY: LFS							
CHK. BY: RW							
DRAWING NO.: FL-19036.14							
SHEET 6 OF 8							

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FRAME ANCHORING
Masonry Construction
Masonry Wire or "T" Anchors

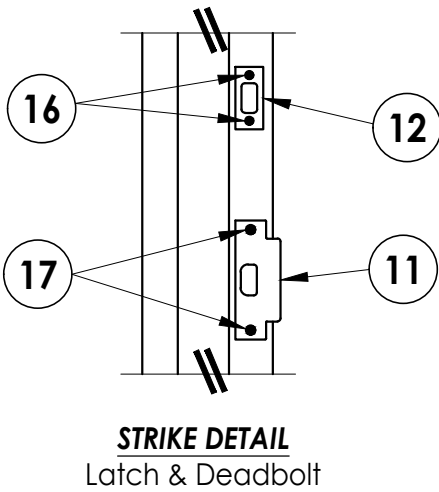
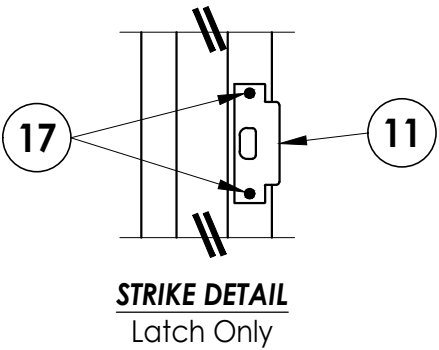
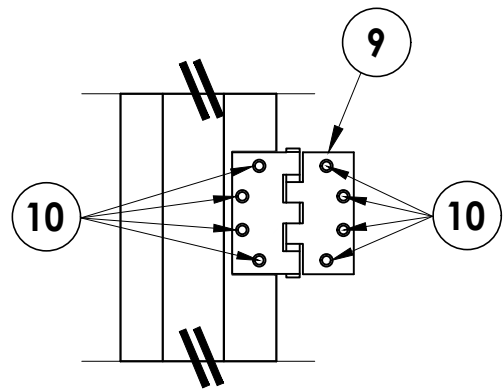
CORROSION RESISTANCE - SALTWATER ENVIRONMENTS
Fasteners & connectors in areas within 3000 ft (914 m) of a saltwater coastline shall comply with FBC Sections 1711.1 or R332.1.

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"

MAX. OVERALL DIMENSION	MAXIMUM DESIGN PRESSURE (PSF) FOR ANCHORING SHOWN ON THIS SHEET			
	INSWING		OUTSWING	
	POSITIVE	NEGATIVE	POSITIVE	NEGATIVE
40.0" X 88.0" w/ MAX. 4" HEAD	+60.0	-65.0	+58.0	-58.0



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P.E. No. 43409

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

RW

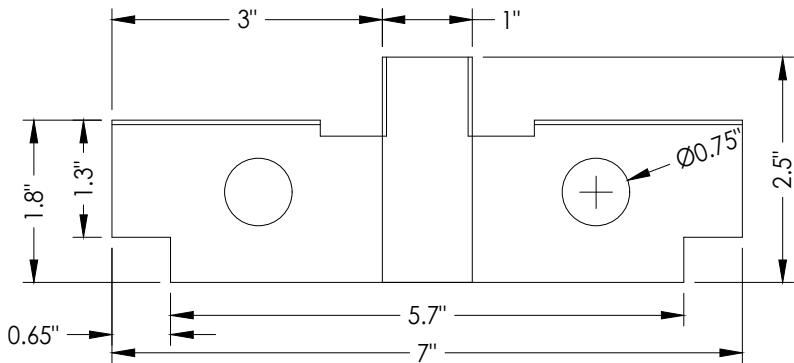
PRODUCT:	VISION HOLLOW METAL
	PART OR ASSEMBLY: FRAME ANCHORING

NO.	DATE	REVISIONS	
		LFS	BY
1	7/02/26	UPDATE TO 9TH ED. (2026)	FBC

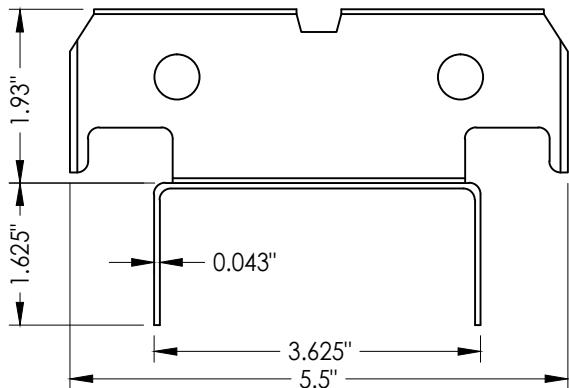
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SCALE:	N.T.S.
DWG. BY:	LFS
CHK. BY:	RW
DRAWING NO.:	FL-19036.14
SHEET	7 OF 8

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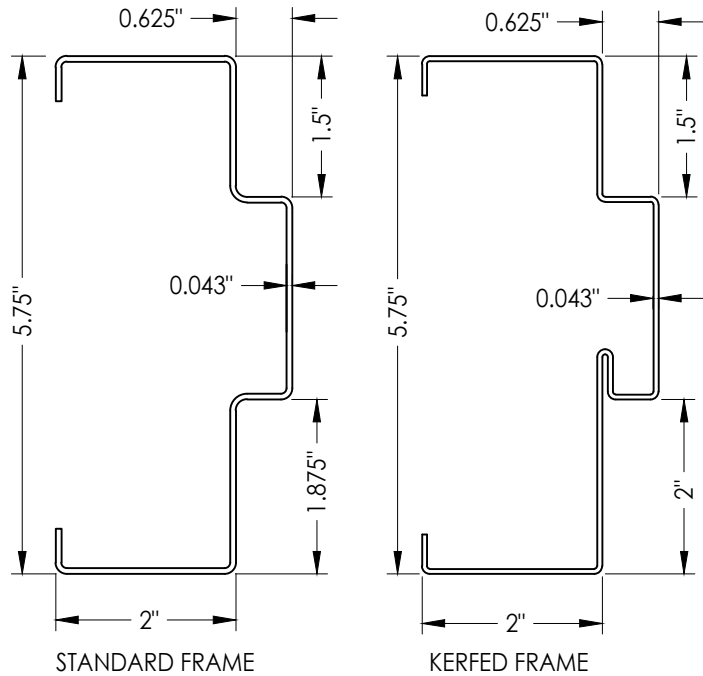
BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
B	2X STUD FRAMING (G>= 0.55)	WOOD
C	1/4" MAX. SHIM SPACE	-
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK (GROUT FILLED) CONFORMING TO ASTM C90	CONCRETE
F	#8 X 1-1/2" PFH WOOD SCREW (1-3/8" MIN. EMBEDMENT)	STEEL
H	1/4" X 1-3/4" 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
P	#10 X 1-1/2" FH SELF-DRILLING SMS (MUST PENETRATE MIN. 3 THREADS THROUGH STEEL STUD)	STEEL
X	STEEL STUD (0.125" MIN. THK, Fu = 50 ksi, Fy = 33 ksi)	STEEL
1	HOLLOW METAL FRAME	STEEL
3	OUTSWING THRESHOLD (HAGER 477S)	ALUM
5	ADA THRESHOLD	ALUM
6	WEATHERSTRIP (Q-LON)	-
7	WEATHERSTRIP (HAGER 736 PRESS-ON)	-
8	DOOR BOTTOM WEATHERSTRIP	-
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
16	#8 X 3/4" FH SCREWS	STEEL
17	#12-24 X 3/4" COMB. MACHINE/WOOD SCREW	STEEL
19	DOOR BOTTOM SHOE (NGP 95WH)	-
20	HINGE REINFORCEMENT (10 GA.)	STEEL
30	EMA PIPE ANCHOR (18 GA)	STEEL
31	EMA BUTTERFLY ANCHOR (18 GA)	STEEL
32	MASONRY WIRE ANCHOR	STEEL
33	STUD STRAP ANCHOR	STEEL
34	MASONRY "T" ANCHOR (16 GA)	STEEL
40	STEEL DOOR PANEL (7'-0" DOOR)	STEEL



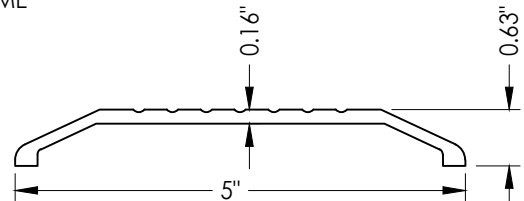
31 EMA BUTTERFLY FRAME ANCHOR



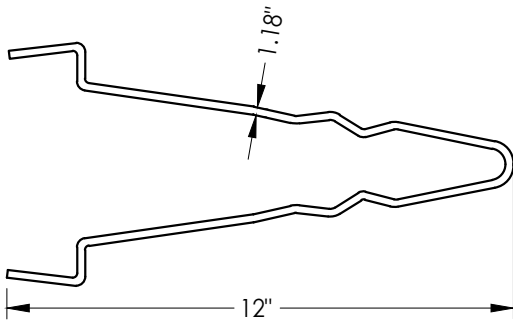
33 STUD STRAP ANCHOR



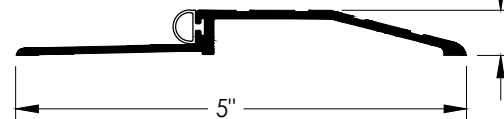
1 HOLLOW METAL FRAME
2" OR 4" FRAME @ HEAD



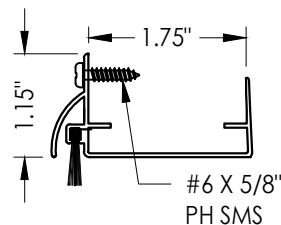
5 ADA THRESHOLD



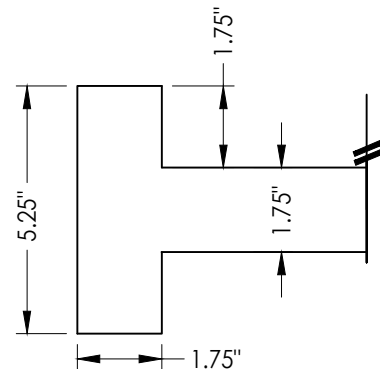
3 OUTSWING BUMP THRESHOLD



32 MASONRY WIRE ANCHOR
60 KSI MIN. (1/2 SCALE)



19 DOOR BOTTOM SHOE



34 MASONRY "T" ANCHOR
9" LONG (1/2 SCALE)

Documents Prepared By:
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P.O. Box 230, Valrico, FL 33595
Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
VISION HOLLOW METAL

PART OR ASSEMBLY:
BILL OF MATERIALS
& COMPONENTS

NO.	DATE	REVISIONS
1	7/02/26	UPDATE TO 9TH ED. (2026) FBC
LFS	BY	

DATE: 12/14/23

SCALE: N.T.S.

DWG. BY: LFS

CHK. BY: RW

DRAWING NO.:

FL-19036.14

SHEET 8 OF 8