



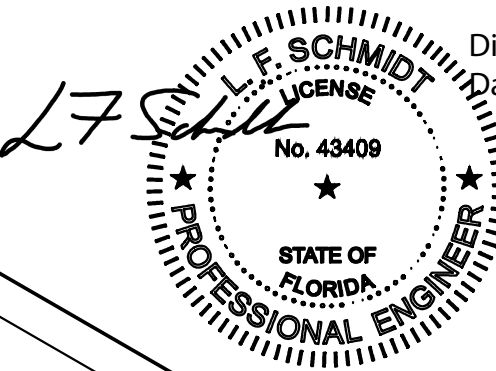
868 MURRAY ROAD, DOTHAN, AL 36303

"REDIFLEX"
TWO-PIECE STEEL FRAME SYSTEM
UTILIZING A
TAYLOR OPAQUE STEEL DOOR PANEL
"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 FBC 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 does not require an impact resistant covering. This product meets missile level "D" and includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
5. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
6. Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.
7. Outswing configurations using high water dam threshold item #70 meet water infiltration requirements for "HVHZ".
8. Inswing configurations and outswing configurations using sill item #71 and #72 do 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.
9. When used in the "HVHZ", 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	Steel frame cross sections & details
3	Door panel details
4	Horizontal cross sections
5	Vertical cross sections
6	Buck & frame anchoring - masonry 2x buck
7	Buck & frame anchoring - steel/2x stud
8	Bill of materials and components

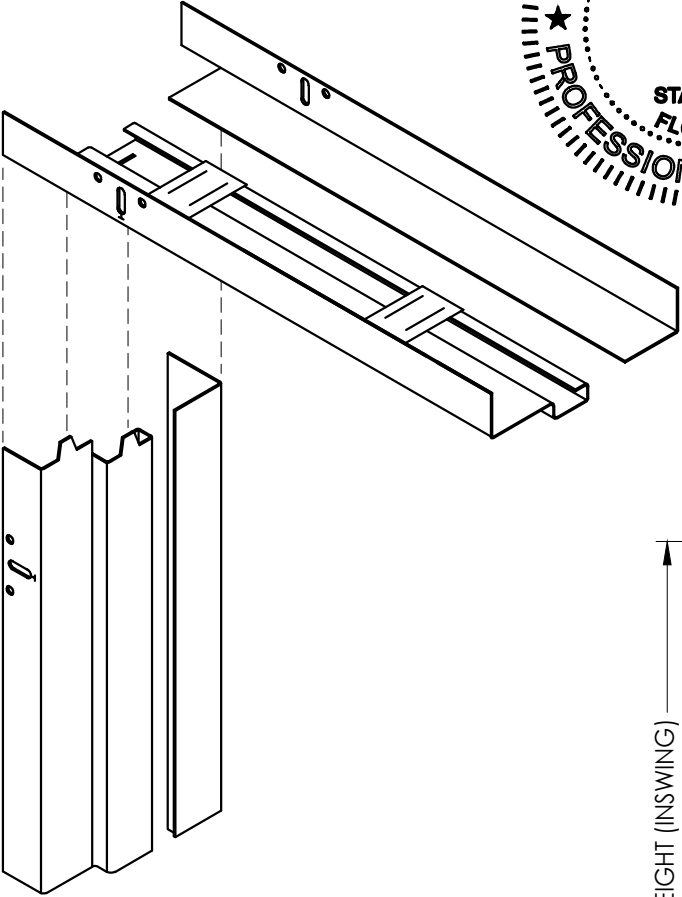


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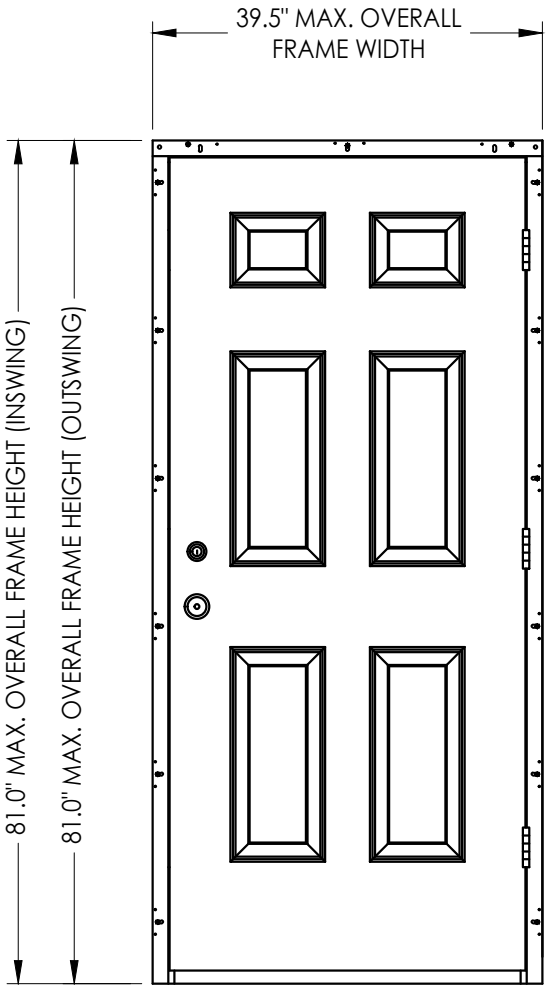
This item has been digitally signed and sealed by
L. F. Schmidt, P.E. on the date adjacent to the seal.

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



REDIFLEX TWO-PIECE



INSWING / OUTSWING

OVERALL FRAME DIMENSION	DESIGN PRESSURE (PSF)	
	POSITIVE	NEGATIVE
39.5" X 81.0"	+ 66.0	- 66.0

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

6	7/01/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS	PRODUCT: DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES
	5	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC	
	4	8/11/20	UPDATE TO 7TH ED.	(2020)	FBC	
	3	9/30/17	UPDATE TO 6TH ED.	(2017)	FBC	
	2	1/27/16	REVISE ANCHORING		LFS	
	1	3/23/15	UPDATE TO 5TH ED.	(2014)	FBC	
NO.		DATE	REVISIONS			
		DATE				
		DATE				
		DATE				
		DATE				
		DATE				

DATE: 3/14/12

SCALE: N.T.S.

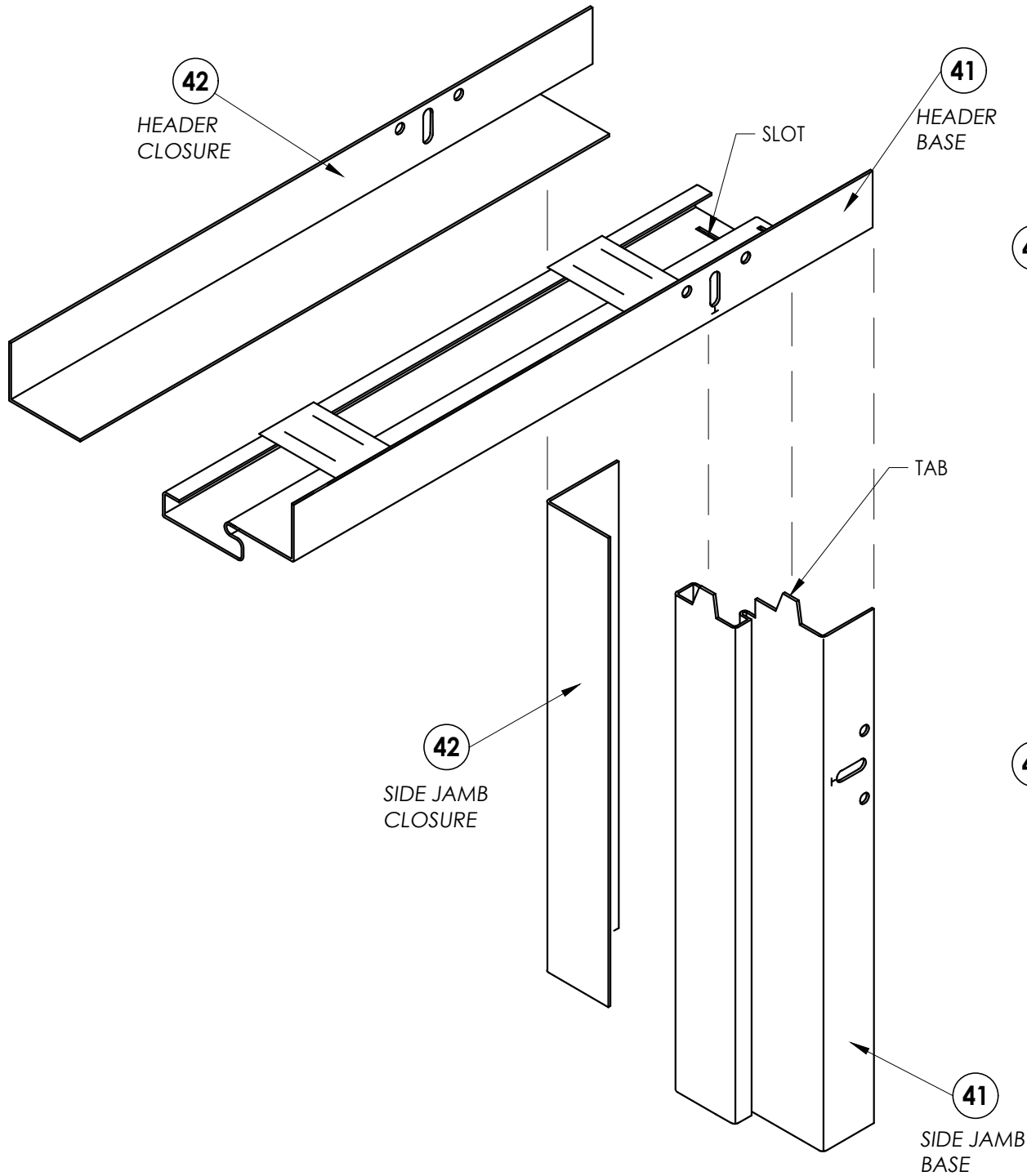
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CHK. BY: LFS

DRAWING NO.: FL-15341.1

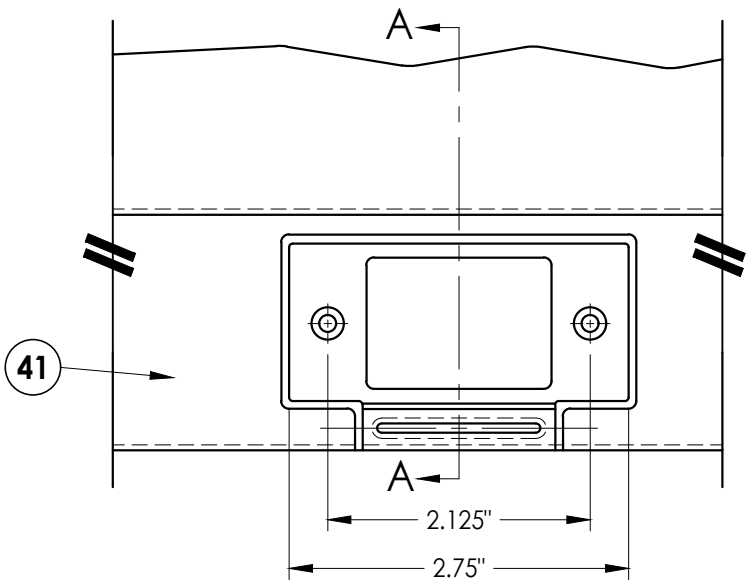
SHEET 1 OF 8

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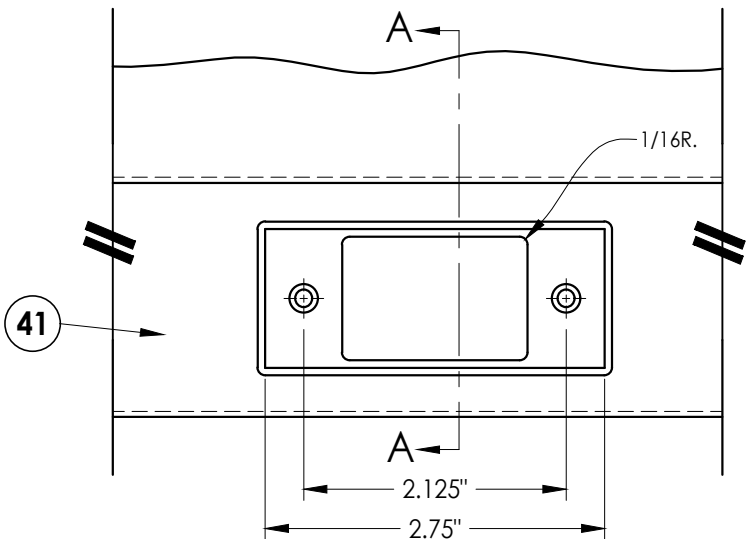


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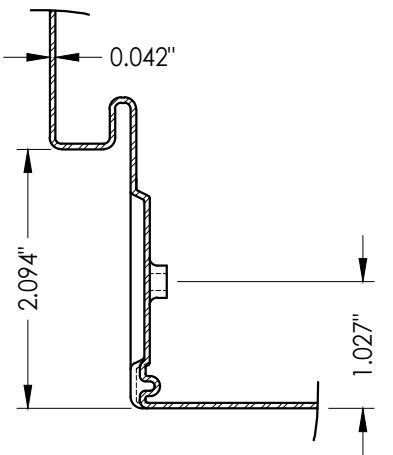
1. HEADER AND SIDE BASE JAMB (41) MINIMUM 18 GA. GALV. STEEL.
2. HEADER AND SIDE CLOSURE JAMB (42) MINIMUM 22 GA. GALV. STEEL.
3. FRAME SHOWN WITHOUT OPTIONAL STEEL TRIM CASING.
4. NON-KERF FRAMES DO NOT MEET AIR AND WATER CRITERIA.



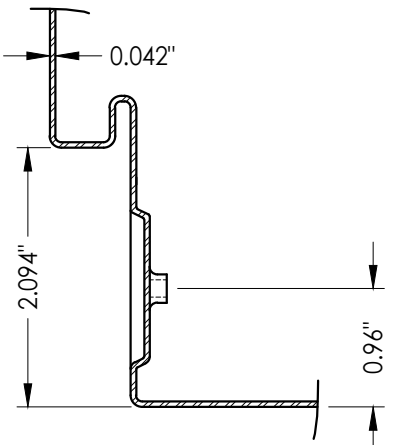
STRIKE AT LATCH



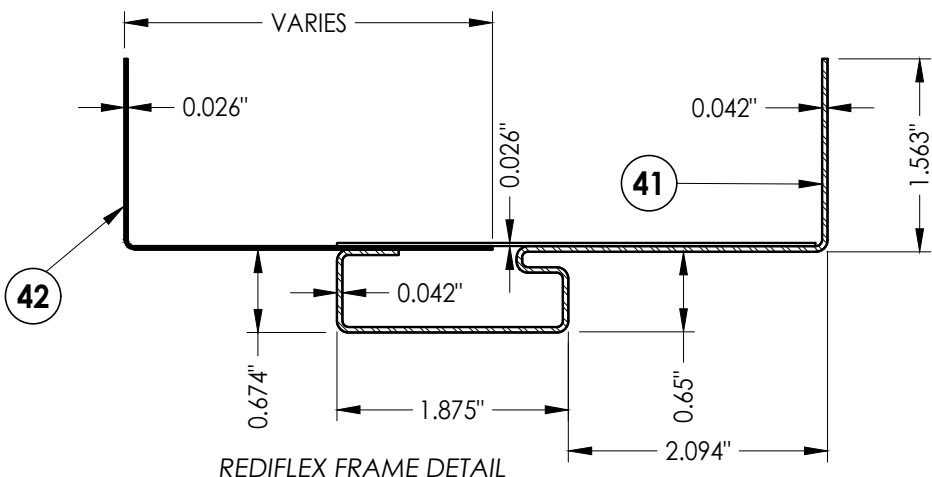
STRIKE AT DEADBOLT



SECTION A-A



SECTION A-A



REDIFLEX FRAME DETAIL

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PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
STEEL FRAME CROSS SECTIONS
& DETAILS

NO.	DATE	REVISIONS
6	7/01/26	UPDATE TO 9TH ED. (2026) FBC
5	7/06/23	UPDATE TO 8TH ED. (2023) FBC
4	8/11/20	UPDATE TO 7TH ED. (2020) FBC
3	9/30/17	UPDATE TO 6TH ED. (2017) FBC
2	1/27/16	REVISE ANCHORING
1	3/23/15	UPDATE TO 5TH ED. (2014) FBC

DATE: 3/14/12

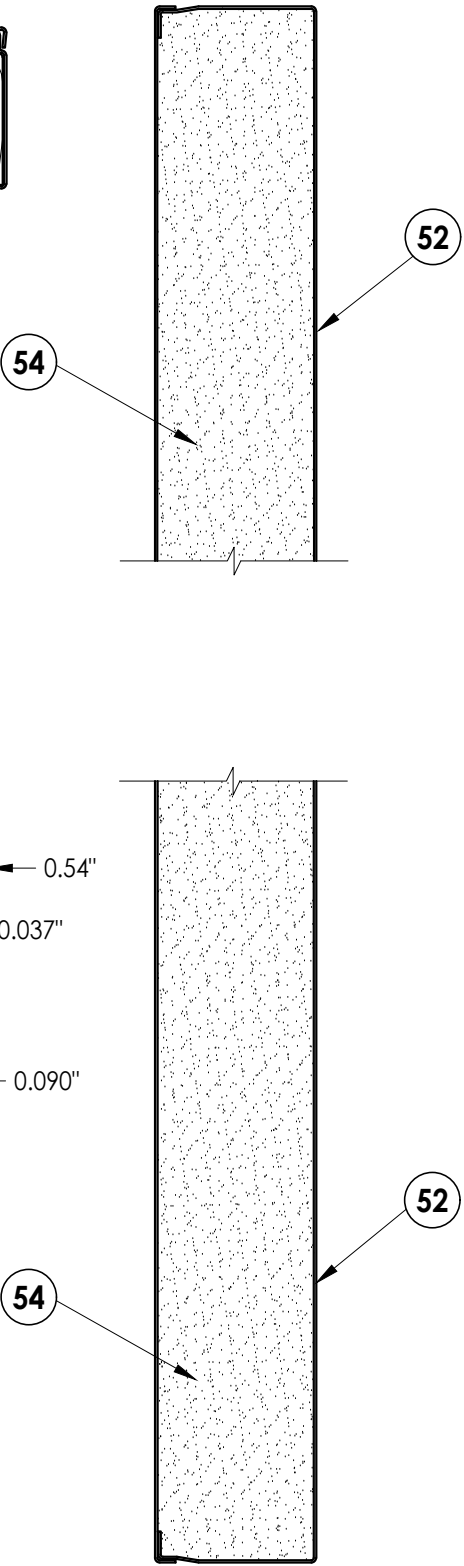
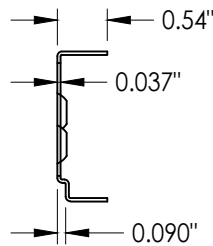
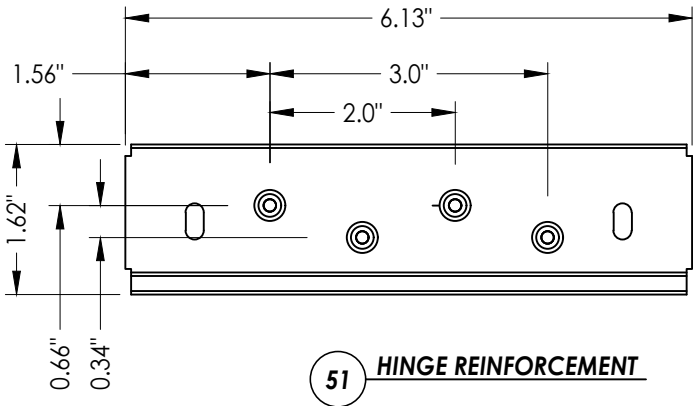
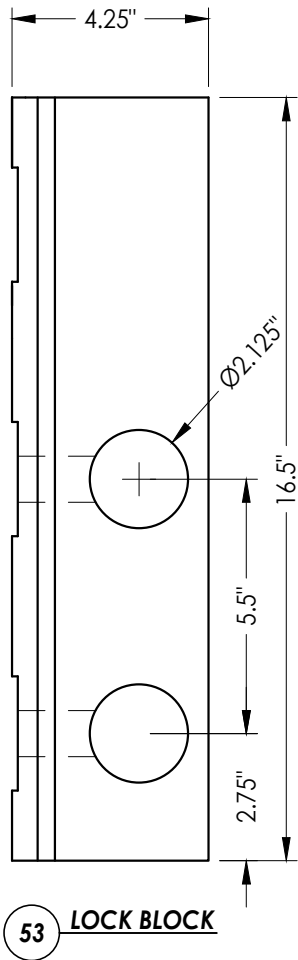
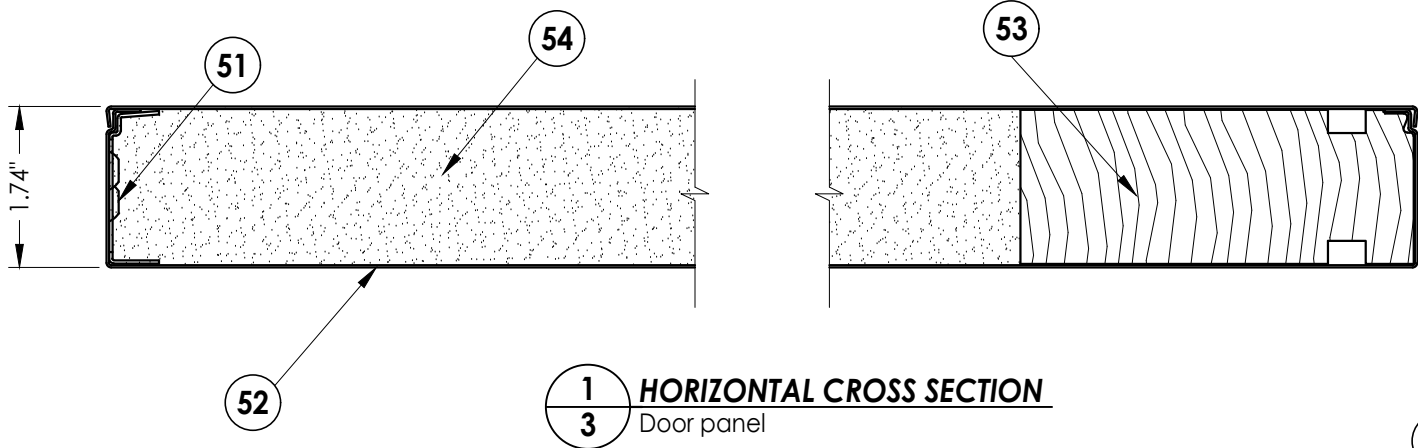
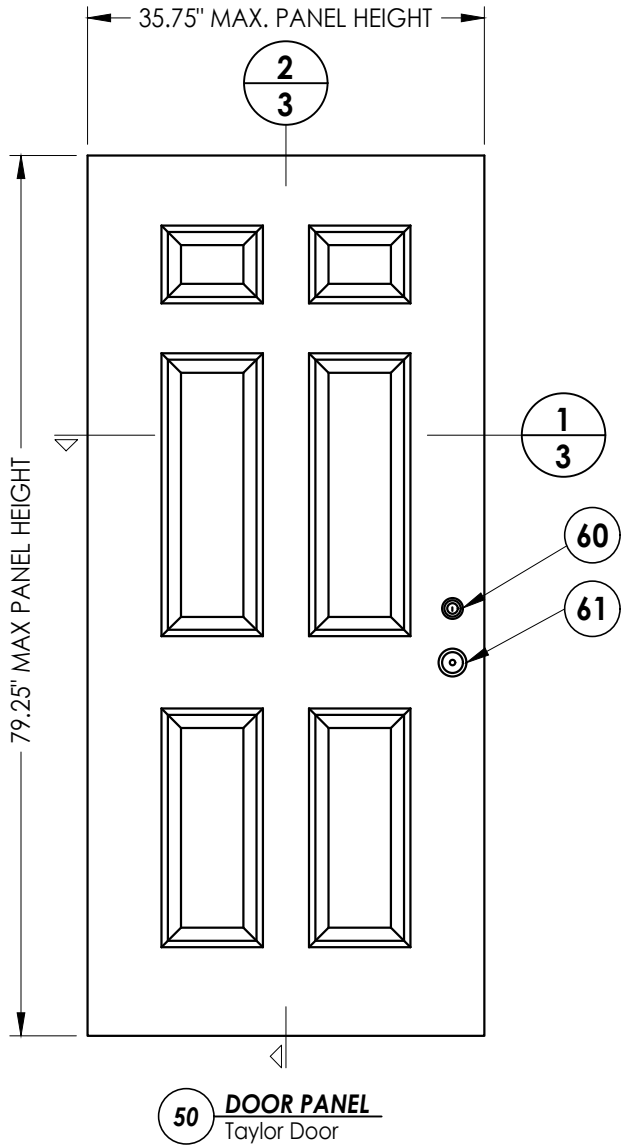
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DWG. BY: JK

CHK. BY: LFS

DRAWING NO.: FL-15341.1

SHEET 2 OF 8



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DWG. BY:		JK					
CHK. BY:		LFS					
DRAWING NO.:		FL-15341.1					
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		5	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS
		4	8/11/20	UPDATE TO 7TH ED.	(2020)	FBC	DAC
		3	9/30/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS
		2	1/27/16	REVISE ANCHORING			LFS
		1	3/23/15	UPDATE TO 5TH ED.	(2014)	FBC	JK
		NO.	DATE				BY
		REVISIONS					

DATE: 3/14/12

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DRAWING NO.:

FL-15341.1

SHEET 3 OF 8

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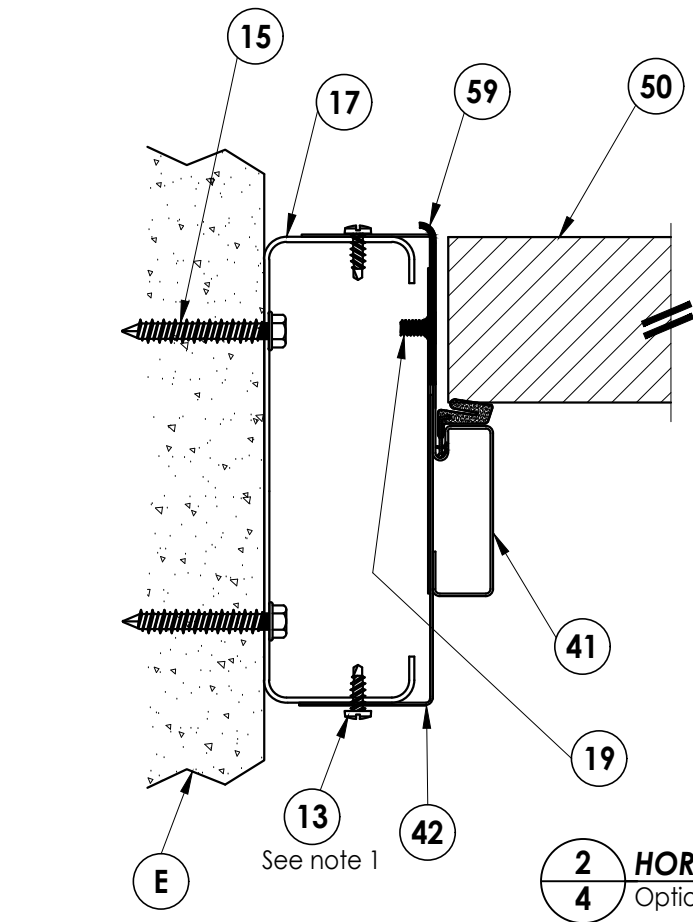
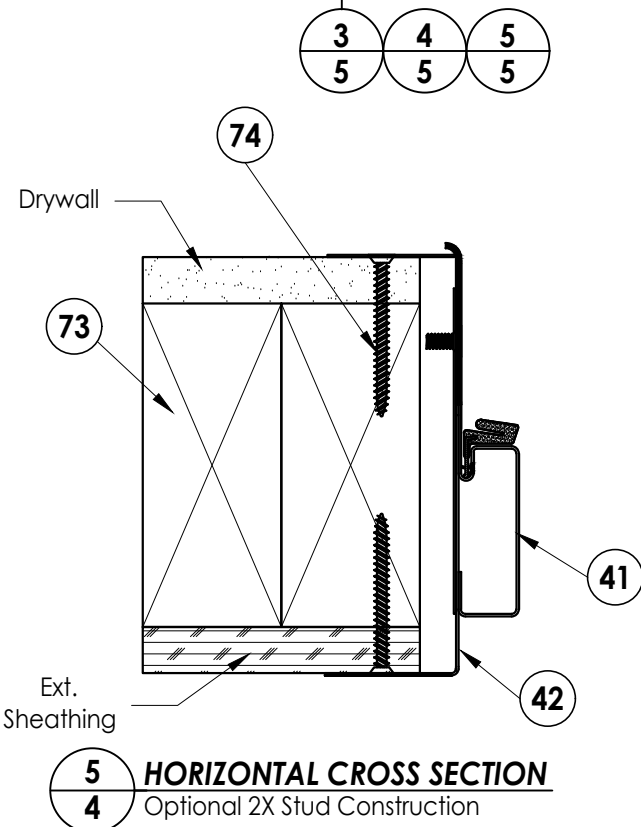
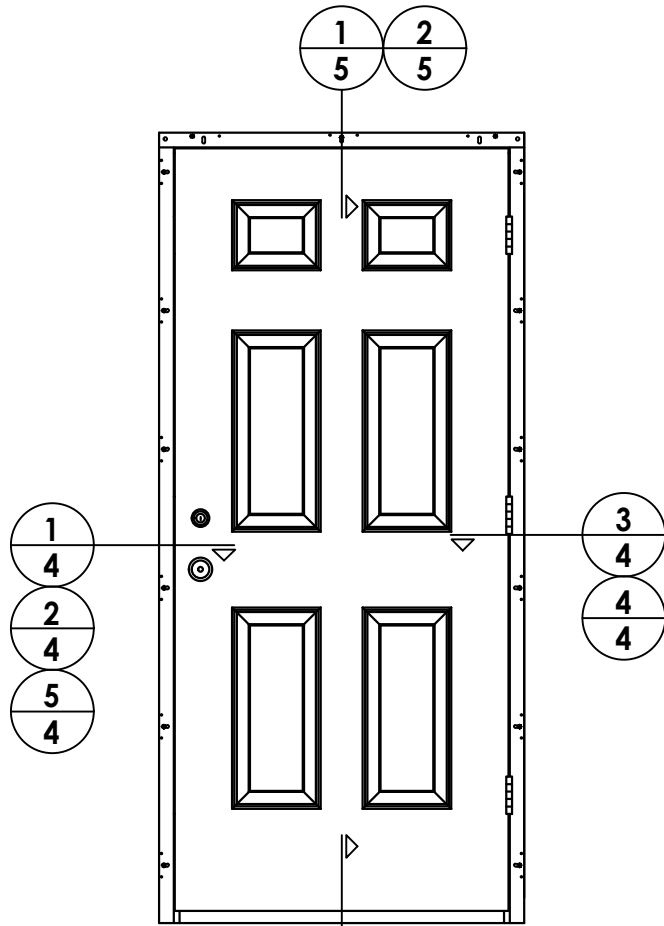
RW BUILDING CONSULTANTS, INC.

P.O. Box 230, Valrico, FL 33595

Phone No.: 813.659.9197

FBPE Registry No. 9813

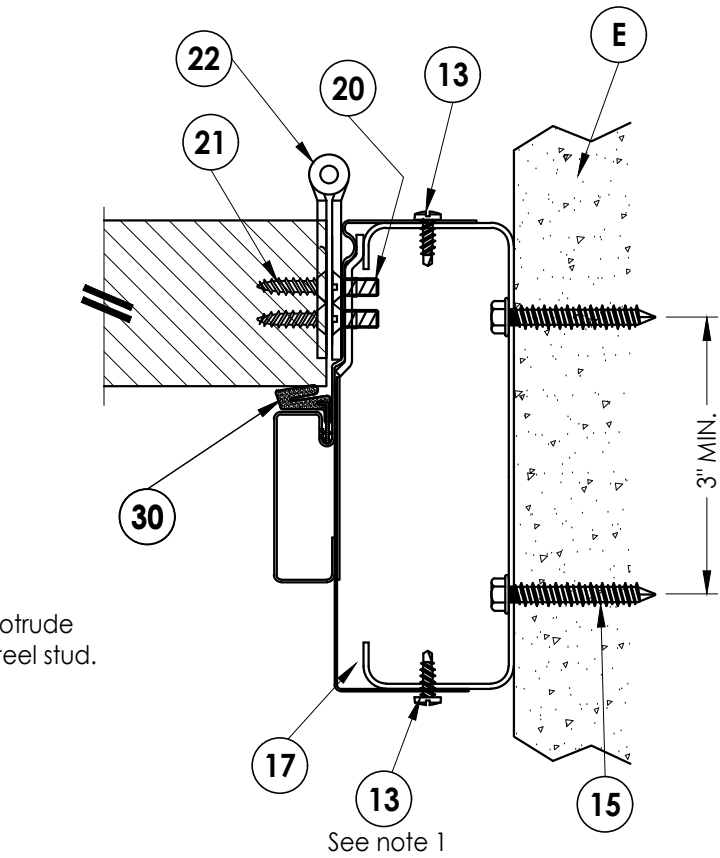
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Note:
1. A minimum of three threads must protrude completely though the supporting steel stud.

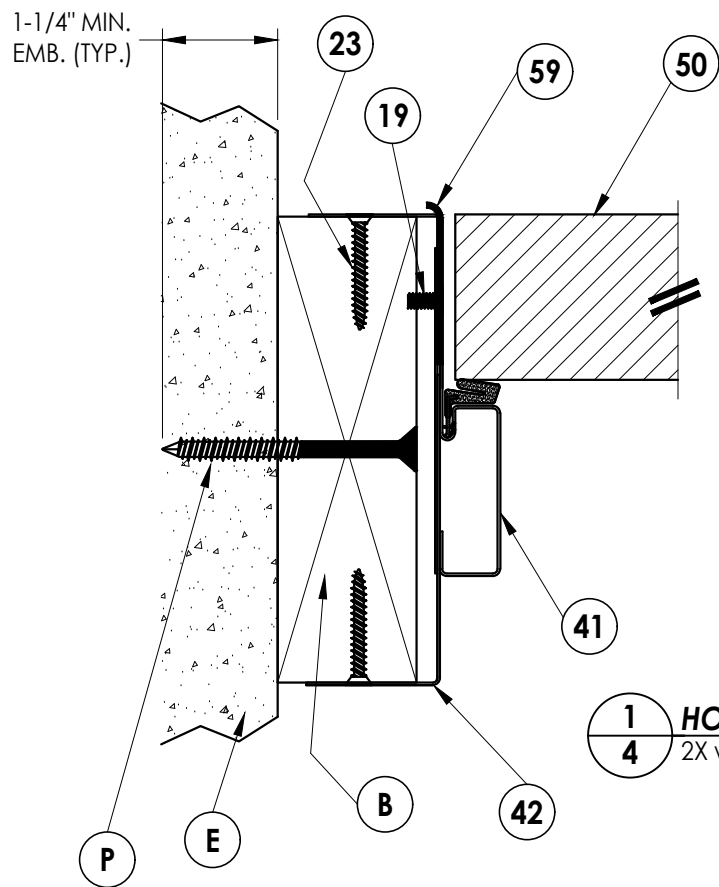
INTERIOR

EXTERIOR



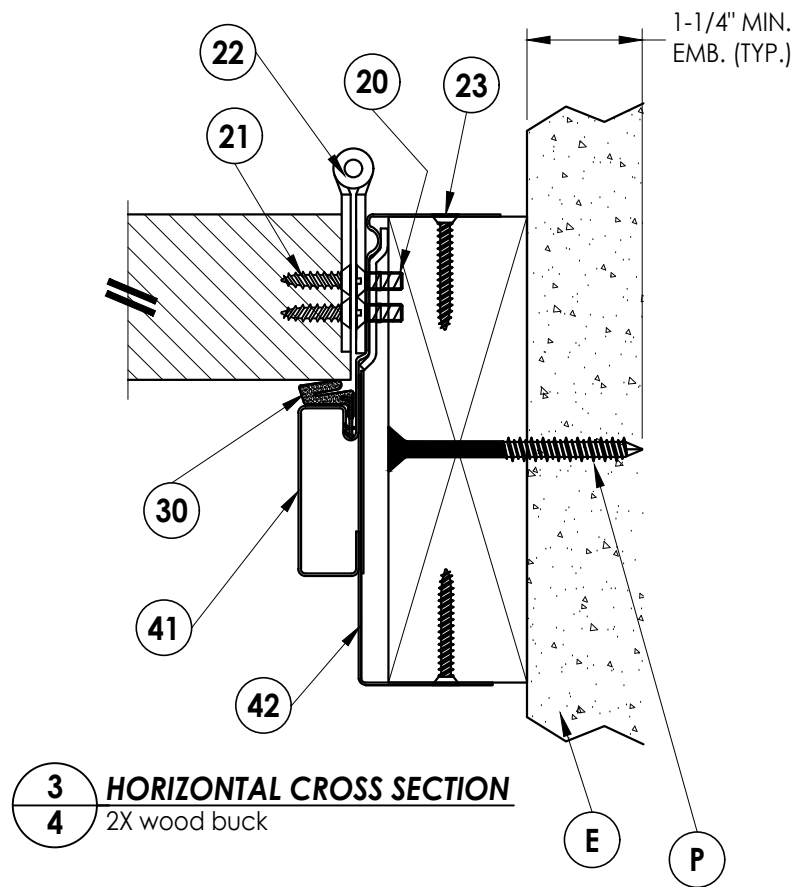
See note 1

4 HORIZONTAL CROSS SECTION
4 Optional steel stud construction



INTERIOR

EXTERIOR



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RW BUILDING CONSULTANTS, INC.
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PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
HORIZONTAL
CROSS SECTIONS

NO.	DATE	REVISIONS
6	7/01/26	UPDATE TO 9TH ED. (2026) FBC LFS
5	7/06/23	UPDATE TO 8TH ED. (2023) FBC LFS
4	8/11/20	UPDATE TO 7TH ED. (2020) FBC DAC
3	9/30/17	UPDATE TO 6TH ED. (2017) FBC LFS
2	1/27/16	REVISE ANCHORING
1	3/23/15	UPDATE TO 5TH ED. (2014) FBC JK

DATE: 3/14/12

SCALE: N.T.S.

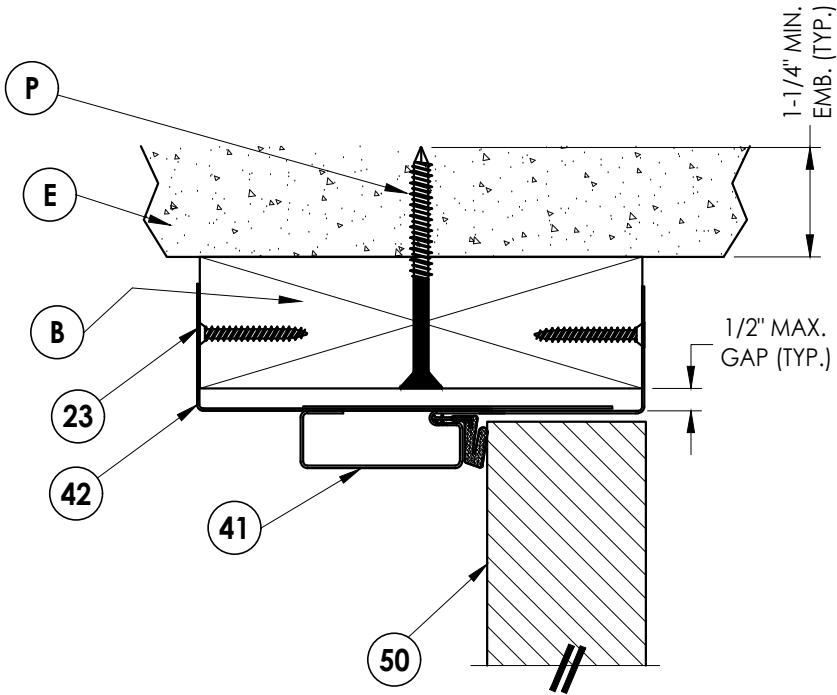
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CHK. BY: LFS

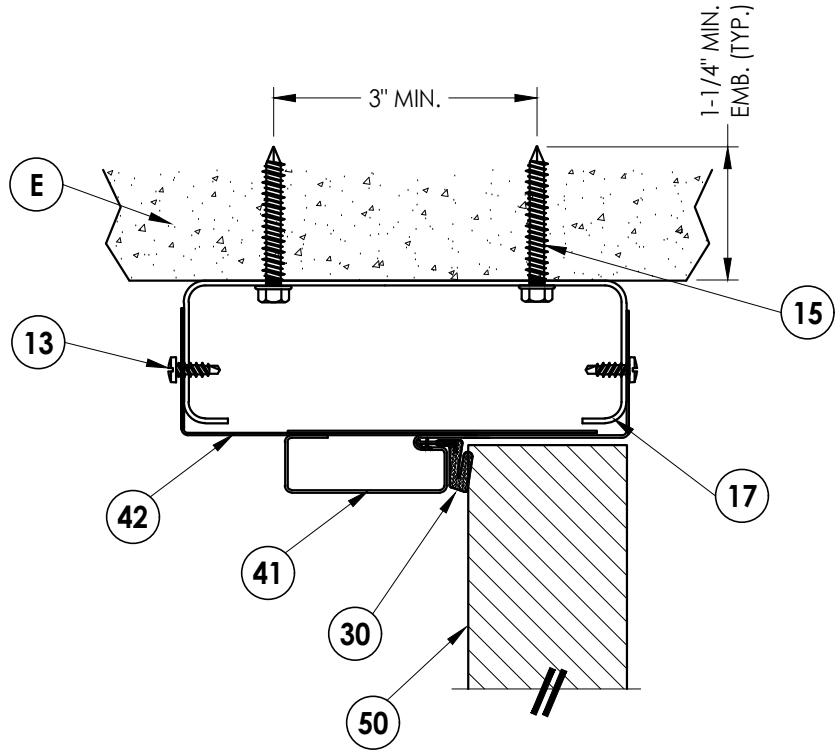
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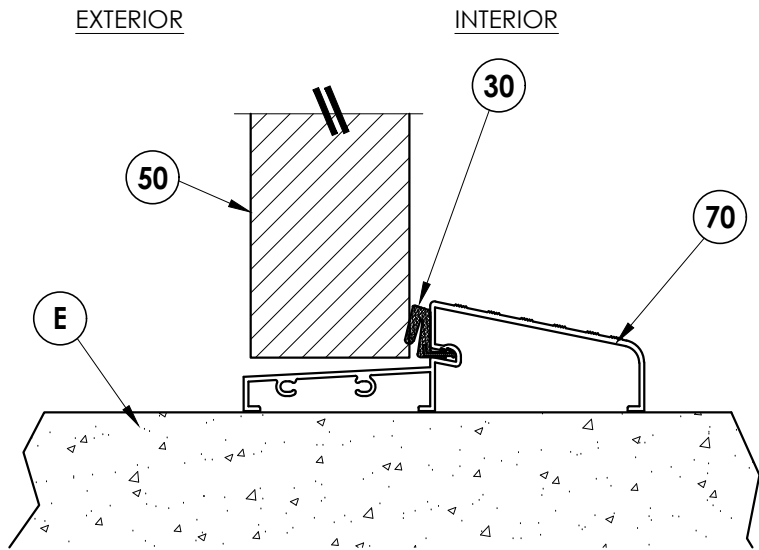
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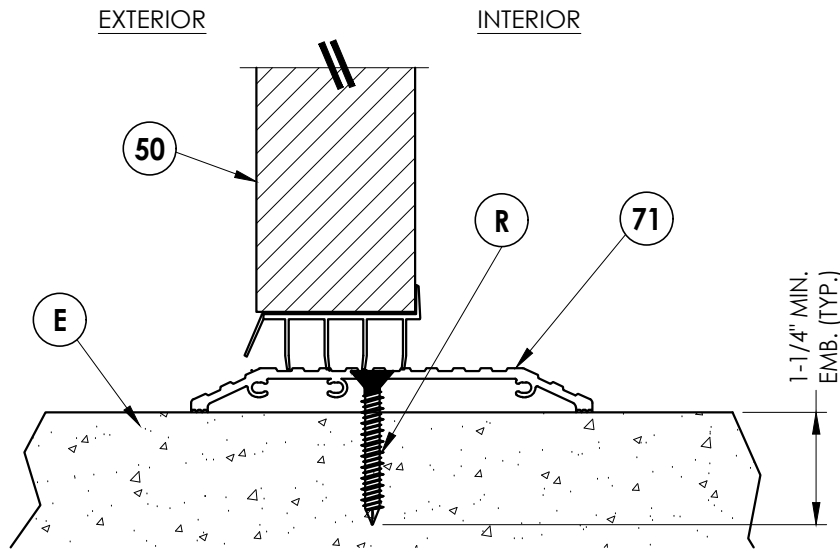
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5 **VERTICAL CROSS SECTION**
2X wood buck



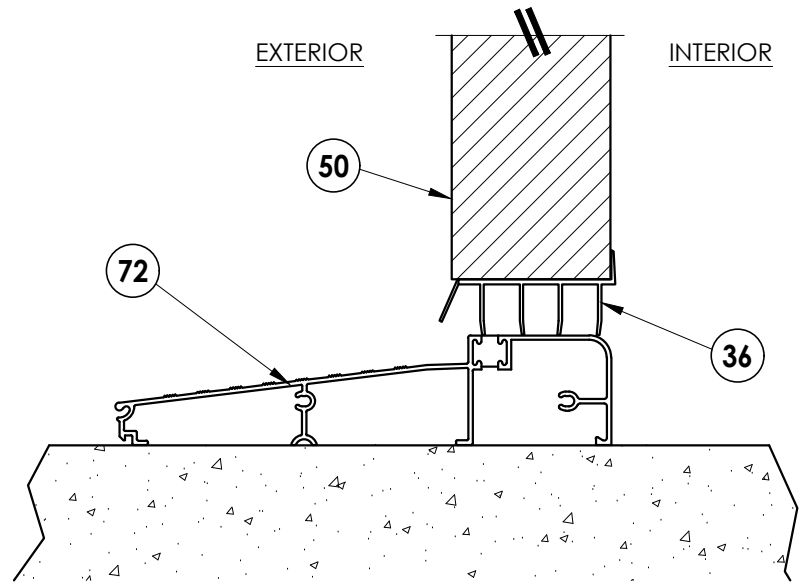
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5 **VERTICAL CROSS SECTION**
Optional steel stud construction



3
5 **VERTICAL CROSS SECTION**
Outswing configuration
see general notes, sheet 1
for "HVVH" water infiltration
requirements



4
5 **VERTICAL CROSS SECTION**
Inswing configuration
see general notes, sheet 1
for "HVVH" Water infiltration
requirements



5
5 **VERTICAL CROSS SECTION**
Inswing configuration
see general notes, sheet 1
for "HVVH" Water infiltration
requirements

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

PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
VERTICAL
CROSS SECTIONS

NO.	DATE	REVISIONS
6	7/01/26	UPDATE TO 9TH ED. (2026) FBC
5	7/06/23	UPDATE TO 8TH ED. (2023) FBC
4	8/11/20	UPDATE TO 7TH ED. (2020) FBC
3	9/30/17	UPDATE TO 6TH ED. (2017) FBC
2	1/27/16	REVISE ANCHORING
1	3/23/15	UPDATE TO 5TH ED. (2014) FBC
JK		
BY		

DATE: 3/14/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

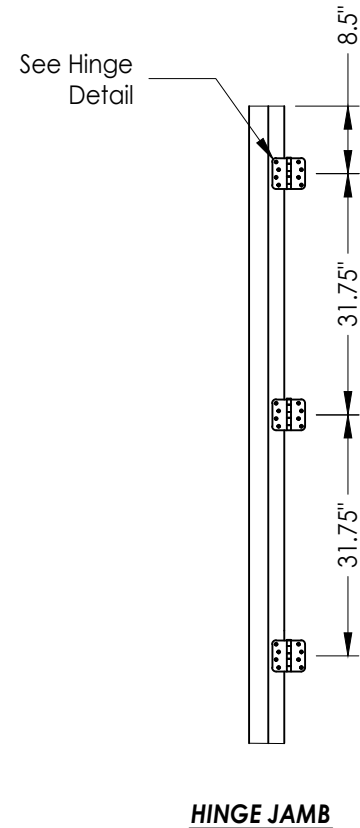
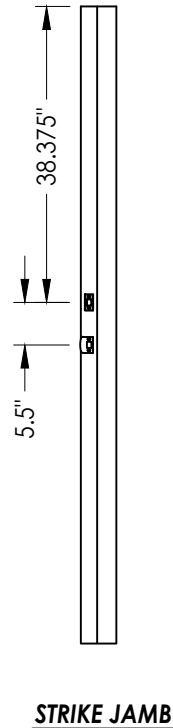
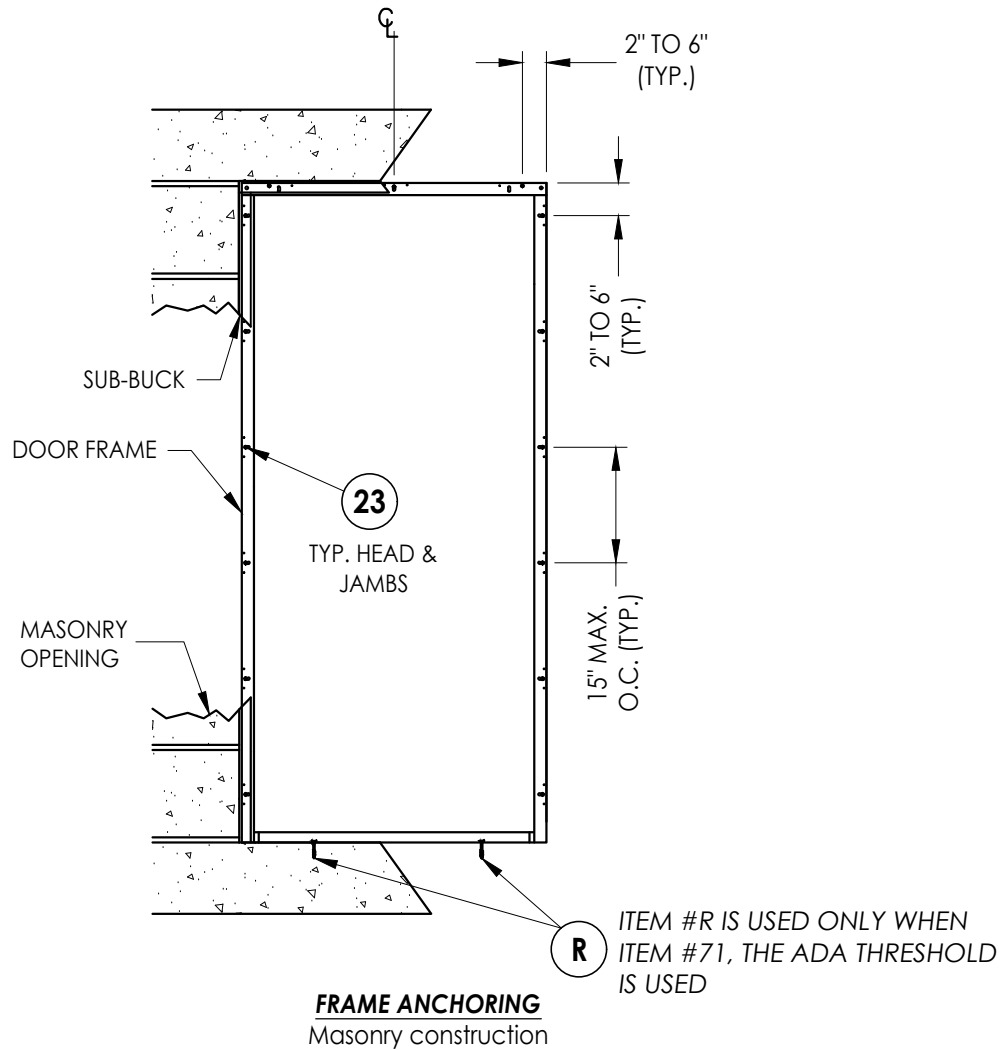
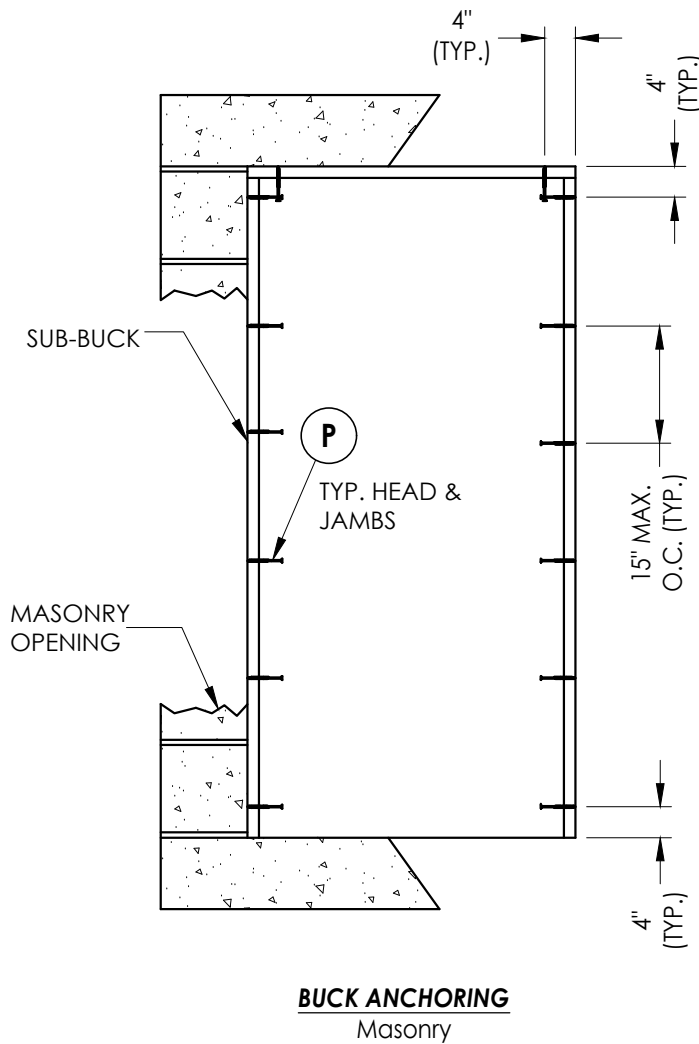
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SHEET 5 OF 8

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Phone No.: 813.659.9197
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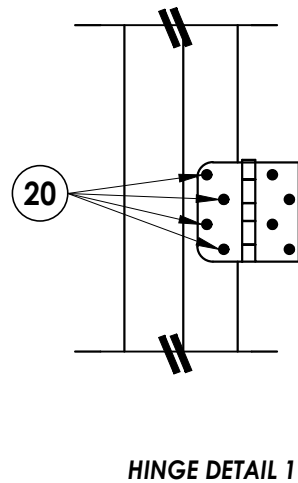
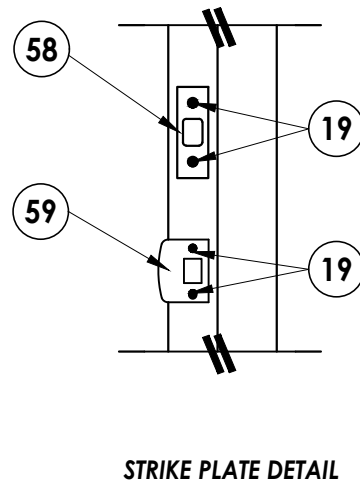
CONCRETE ANCHOR NOTES:

- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
- Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required to ensure the "MAX. ON CENTER" dimension are not exceeded.
- Concrete anchor table:

ANCHOR TYPE	ANCHOR SIZE	MIN. EMBEDMENT	MIN. CLEARANCE TO MASONRY EDGE	MIN. CLEARANCE TO ADJACENT ANCHOR
ITW TAPCON®	1/4"	1-1/4"	2"	4"
DeWALT ULTRACON®	1/4"	1-1/4"	1"	4"

WOOD SCREW INSTALLATION NOTES:

- Maintain a minimum 5/8" edge distance, 1" end distance, & 1" o.c. spacing of wood screws to prevent the splitting of wood.



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

PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

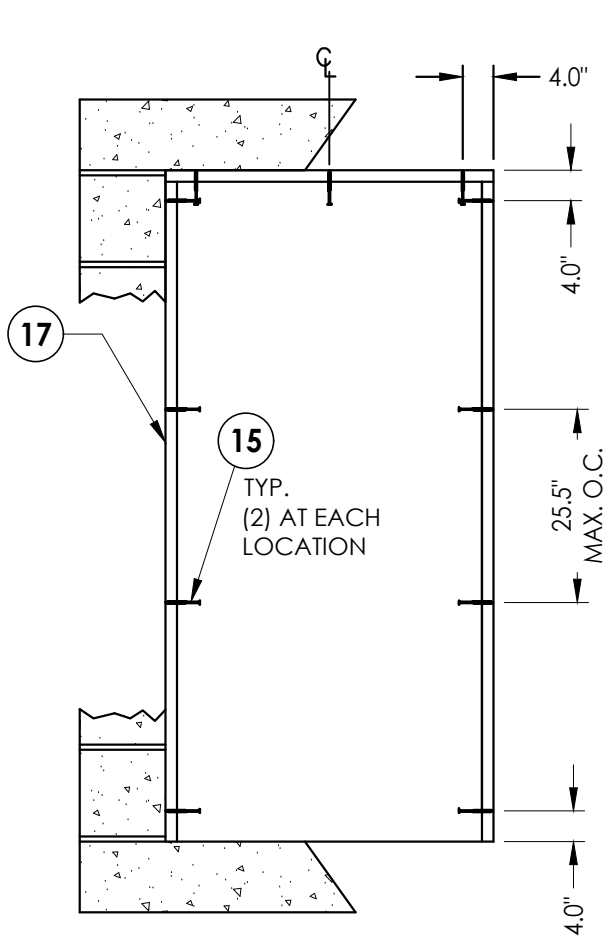
PART OR ASSEMBLY:
BUCK AND FRAME ANCHORING
MASONRY 2X BUCK

NO.	DATE	REVISIONS
6	7/01/26	UPDATE TO 9TH ED. (2026) FBC
5	7/06/23	UPDATE TO 8TH ED. (2023) FBC
4	8/11/20	UPDATE TO 7TH ED. (2020) FBC
3	9/30/17	UPDATE TO 6TH ED. (2017) FBC
2	1/27/16	REVISE ANCHORING
1	3/23/15	UPDATE TO 5TH ED. (2014) FBC

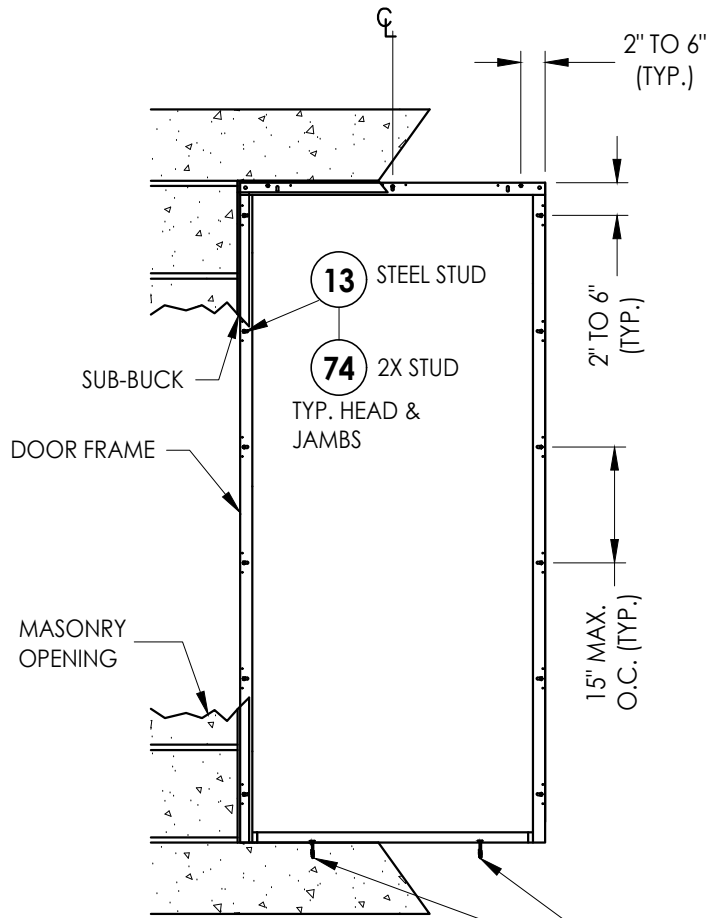
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CHK. BY: LFS
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SHEET 6 OF 8

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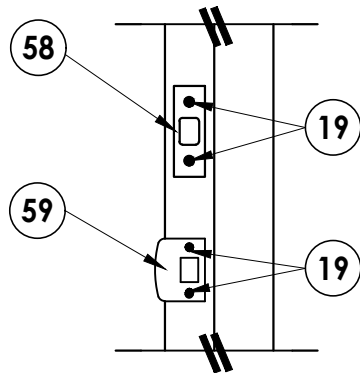
BUCK ANCHORING
Steel stud



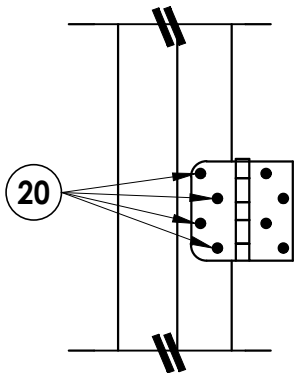
FRAME ANCHORING
Stud construction

STRIKE JAMB

HINGE JAMB



STRIKE PLATE DETAIL



HINGE DETAIL 1

CONCRETE ANCHOR NOTES:

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P.E. No. 43409

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Phone No.: 813.659.9197
FBPE Registry No. 9813

PRODUCT:
DUNBARTON REDIFLEX
TWO-PIECE STEEL FRAME

PART OR ASSEMBLY:
BUCK & FRAME ANCHORING
STEEL/2X STUD

NO.	DATE	REVISIONS
6	7/01/26	UPDATE TO 9TH ED. (2026) FBC
5	7/06/23	UPDATE TO 8TH ED. (2023) FBC
4	8/11/20	UPDATE TO 7TH ED. (2020) FBC
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DATE: 3/14/12

SCALE: N.T.S.

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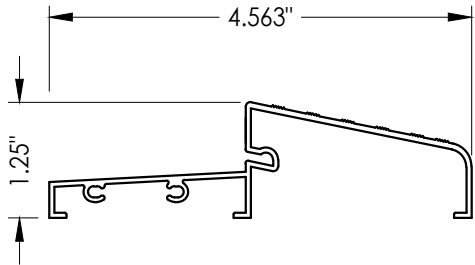
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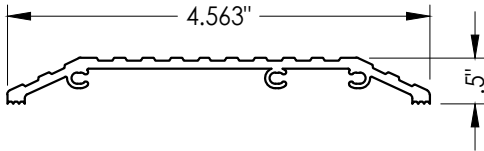
SHEET 7 OF 8

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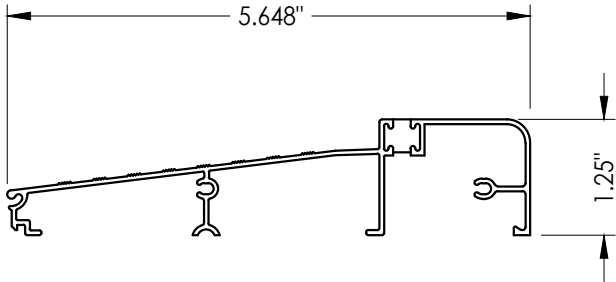
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
B	2X BUCK SG >= 0.55	WOOD
E	MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 OR ASTM A653 STEEL	CONCRETE
P	1/4" X 2-3/4" DeWALT OR ITW PFH CONCRETE SCREW	STEEL
R	1/4" X 1-3/4" ITW PFH CONCRETE SCREW	STEEL
13	#10 X 3/4" HILTI KWIK-FLEX SELF-DRILLING SCREW	STEEL
15	1/4" X 1-3/4" HWH ITW CONCRETE SCREW	STEEL
17	SSMA STUD 550S162-54 (Fy = 33 ksi, Fu = 45 ksi)	STEEL
19	#8 x 3/8" PFH MACHINE SCREW	STEEL
20	10-24 X 1/2" FLAT HEAD SCREW	STEEL
21	#10 X 0.75" PFH WOOD SCREW	STEEL
22	4" X 4" BUTT HINGE	STEEL
23	#6 X 1-1/4 PFH WOOD SCREW (1-1/8" MIN. EMBEDMENT)	STEEL
29	JAMB HINGE REINF. 14 GA. 4" x 4" x 1.53" (.075" GALV. STEEL) BY DUNBARTON FR00505	STEEL
30	COMPRESSION WEATHERSTRIPPING QLON QDS 650 BY SCHLEGEL	FOAM
36	DOOR BOTTOM SWEEP by DUNBARTON	PVC
41	REDIFLEX JAMB BASE 18 GA. (.042" MIN. GALV. STEEL) BY DUNBARTON	STEEL
42	REDIFLEX JAMB CLOSURE 22 GA. (.026" MIN. GALV. STEEL) BY DUNBARTON	STEEL
50	STEEL DOOR PANEL - STEEL EDGE By Taylor	STEEL
51	STEEL DOOR HINGE REINFORCEMENT	STEEL
52	DOOR SKIN (0.020" THICK STEEL, Fy = 33,000 PSI MIN.)	STEEL
53	LOCK REINFORCEMENT BLOCK	WOOD
54	POLYURETHANE FOAM CORE (2.0 PCF DENSITY, BAYER 245)	POLYURETHANE
58	STRIKE PLATE - DEADBOLT	STEEL
59	STRIKE PLATE - LATCHBOLT	STEEL
60	SCHLAGE KEYED LOCK SET - F SERIES	STEEL
	KWIKSET SERIES LATCH	STEEL
61	SCHLAGE DEADBOLT - B60/62 SERIES	STEEL
	KWIKSET SERIES (660) DEADBOLT	STEEL
70	OUTSWING BUMP THRESHOLD by ENDURA	ALUM
71	ADA THRESHOLD by ENDURA	ALUM
72	INSWING FIXED THRESHOLD BY ENDURA	ALUM
73	2X FRAMING: SG >= 0.42	WOOD
74	#8 x 1-3/4" PFH SMS (1-1/8" MIN. EMBEDMENT)	STEEL



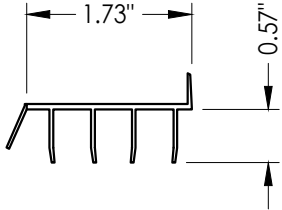
70 OUTSWING THRESHOLD



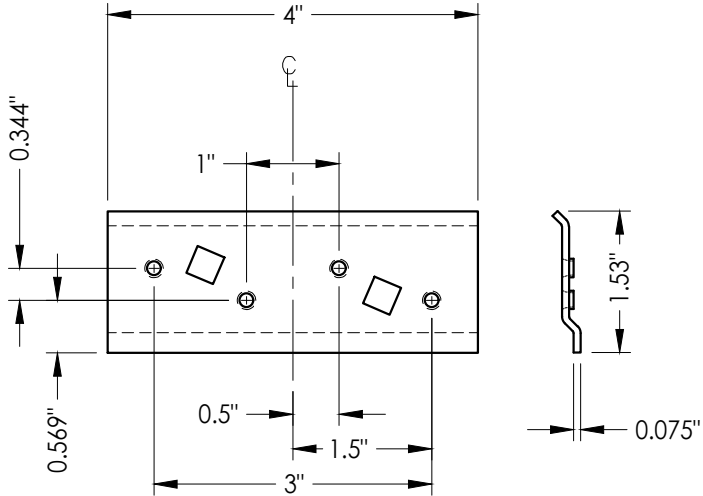
71 ADA SILL



72 INSWING ALUMINUM THRESHOLD



36 FIN TYPE SWEEP



29 HINGE REINFORCEMENT

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: DUNBARTON REDIFLEX TWO-PIECE STEEL FRAME												PART OR ASSEMBLY: BILL OF MATERIAL & COMPONENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
6	7/01/26	UPDATE TO 9TH ED.	(2026)	FBC	LFS	5	7/06/23	UPDATE TO 8TH ED.	(2023)	FBC	LFS	4	8/11/20	UPDATE TO 7TH ED.	(2020)	FBC	DAC	3	9/30/17	UPDATE TO 6TH ED.	(2017)	FBC	LFS	2	1/27/16	REVISE ANCHORING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</