



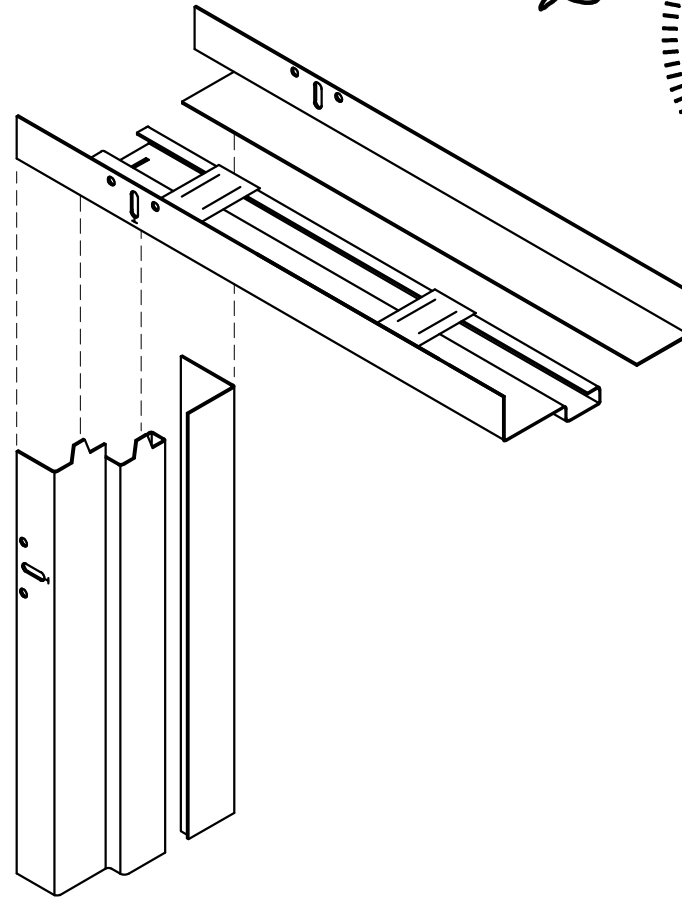
868 MURRAY ROAD, DOTHAN, AL 36303

"REDIFLEX"  
TWO-PIECE STEEL FRAME SYSTEM  
UTILIZING A  
MASONITE OPAQUE STEEL DOOR PANEL  
"IMPACT"

GENERAL NOTES

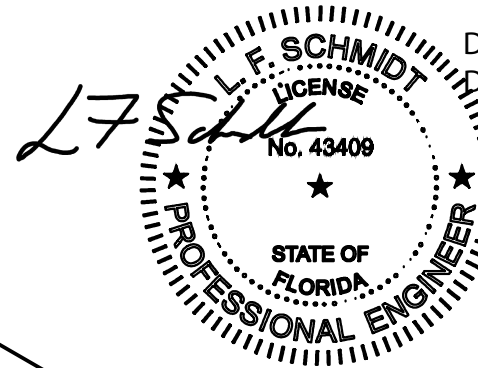
1. This product has been evaluated and is in compliance with the 9th Edition (2026) Florida Building Code (FBC) structural requirements excluding the "High Velocity Hurricane Zone" (HVHZ).
2. Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be 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 includes Wind Zone 4 as defined in ASTM E 1996 and FBC Sections 1609.1.2.2 & R301.2.1.2.1.
4. For 2x stud framing construction, anchoring of these units shall be the same as that shown for 2x buck masonry construction.
5. 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                 | 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                    |



REDIFLEX TWO-PIECE

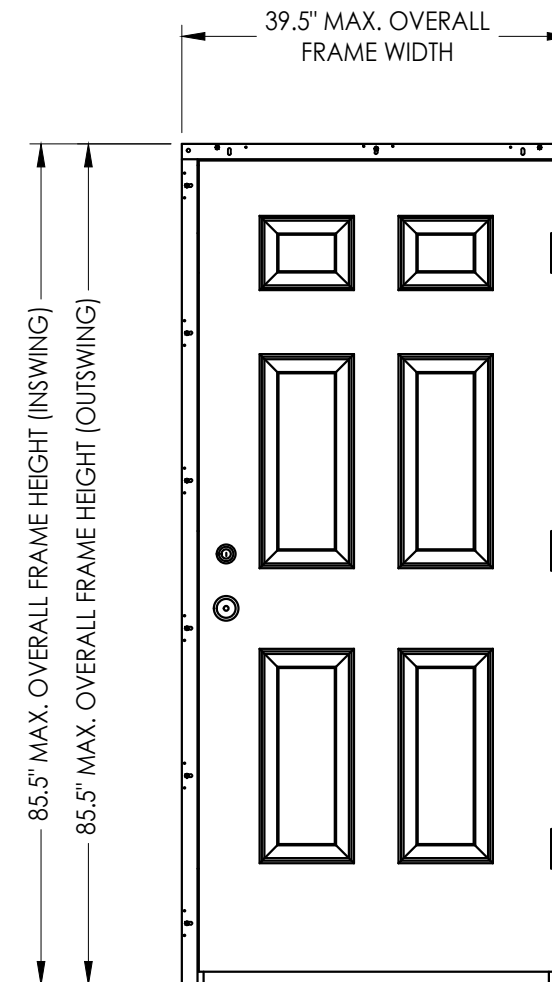
| OVERALL<br>FRAME<br>DIMENSION | DESIGN PRESSURE (PSF) |          |
|-------------------------------|-----------------------|----------|
|                               | POSITIVE              | NEGATIVE |
| 39.5" X 85.5"                 | + 66.0                | - 66.0   |



Digitally signed by Lyndon F Schmidt  
Date: 2026.07.01 12:40:17 -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



INSWING / OUTSWING

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

PRODUCT:  
DUNBARTON REDIFLEX  
TWO-PIECE STEEL FRAME

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

REVISIONS

67/01/26UPDATE TO 9TH ED. (2026) FBC

57/06/23UPDATE TO 8TH ED. (2023) FBC

48/11/20UPDATE TO 7TH ED. (2020) FBC

39/30/17UPDATE TO 6TH ED. (2017) FBC

21/27/16REVISE ANCHORING

13/23/15UPDATE TO 5TH ED. (2014) FBC

NO. DATE

DATE: 03/14/12

SCALE: N.T.S.

DWG. BY: JK

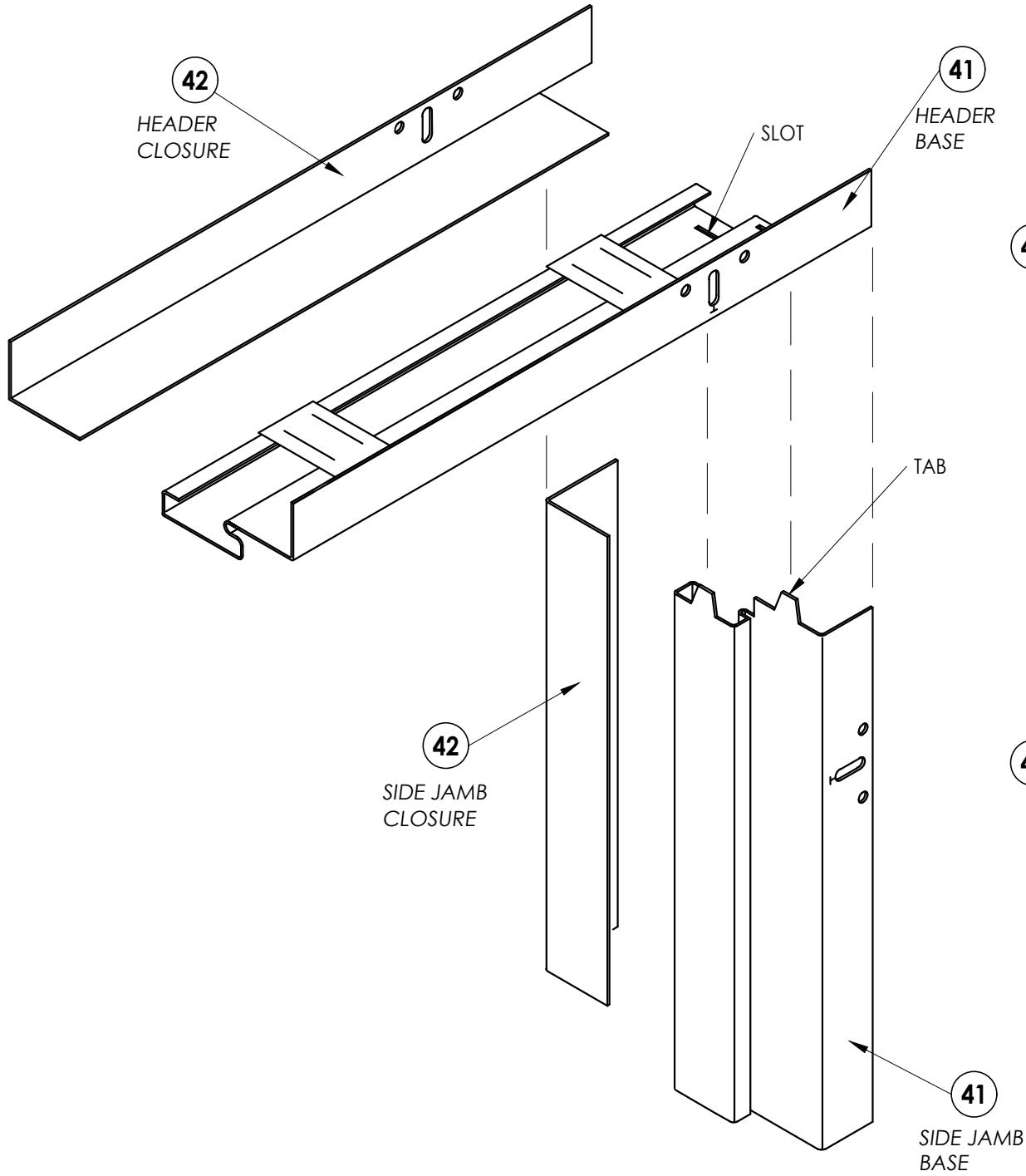
CHK. BY: LFS

DRAWING NO.:  
FL-15341.2

SHEET 1 OF 8

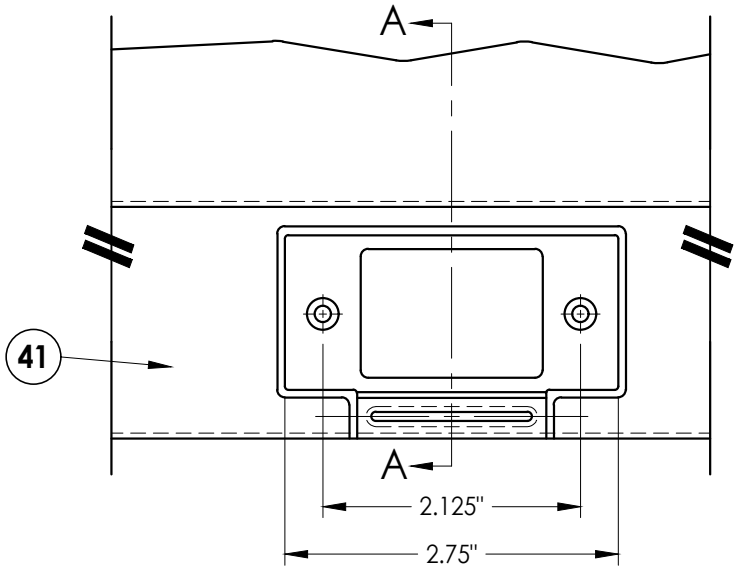
Building Consultants, Inc.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

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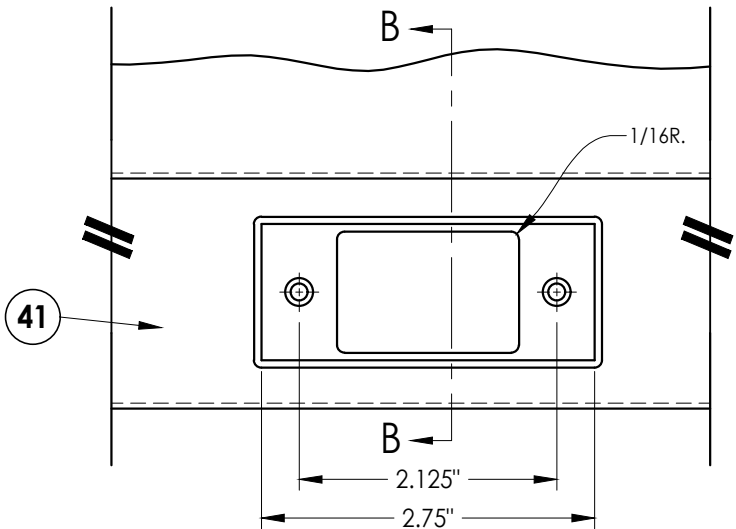


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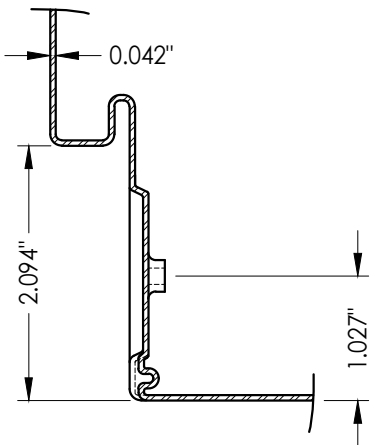
1. HEADER AND SIDE BASE JAMB (41) MINIMUM 18 GA. GALV. STEEL.
2. HEADER AND SIDE CLOSURE JAMB (42) MINIMUM 22 GA. GALV. STEEL.
3. FRAME SHOWN WITHOUT OPTIONAL STEEL TRIM CASING.
4. NON-KERF FRAMES DO NOT MEET AIR AND WATER CRITERIA.



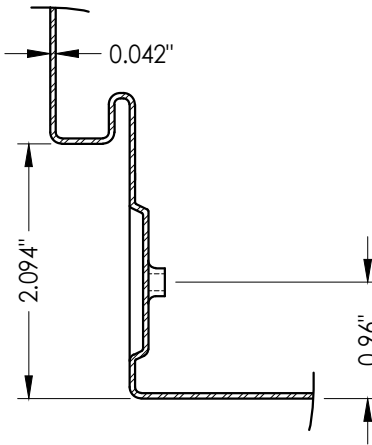
STRIKE AT LATCH



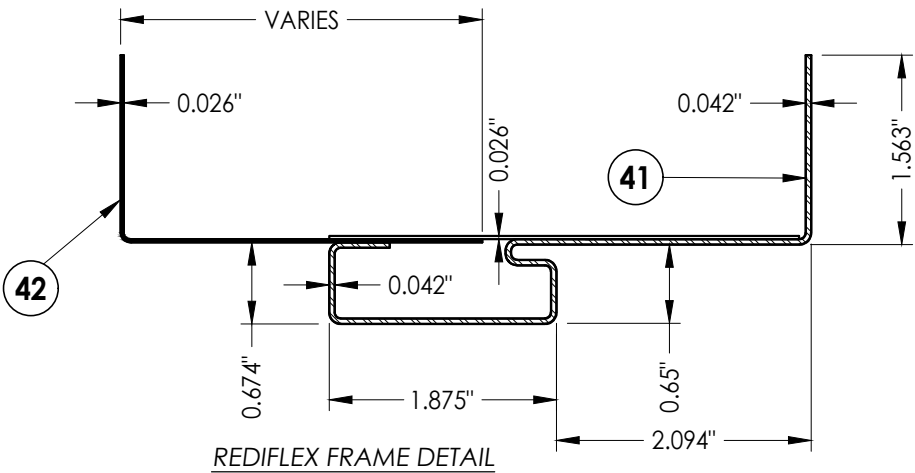
STRIKE AT DEADBOLT



SECTION A-A



SECTION B-B



REDIFLEX FRAME DETAIL

Documents Prepared By:

Lyndon F. Schmidt  
P.E. No. 43409

PRODUCT:

DUNBARTON REDIFLEX  
TWO-PIECE STEEL FRAME

LFS

LFS

DAC

LFS

LFS

JK

BY

DATE: 03/14/12

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:

FL-15341.2

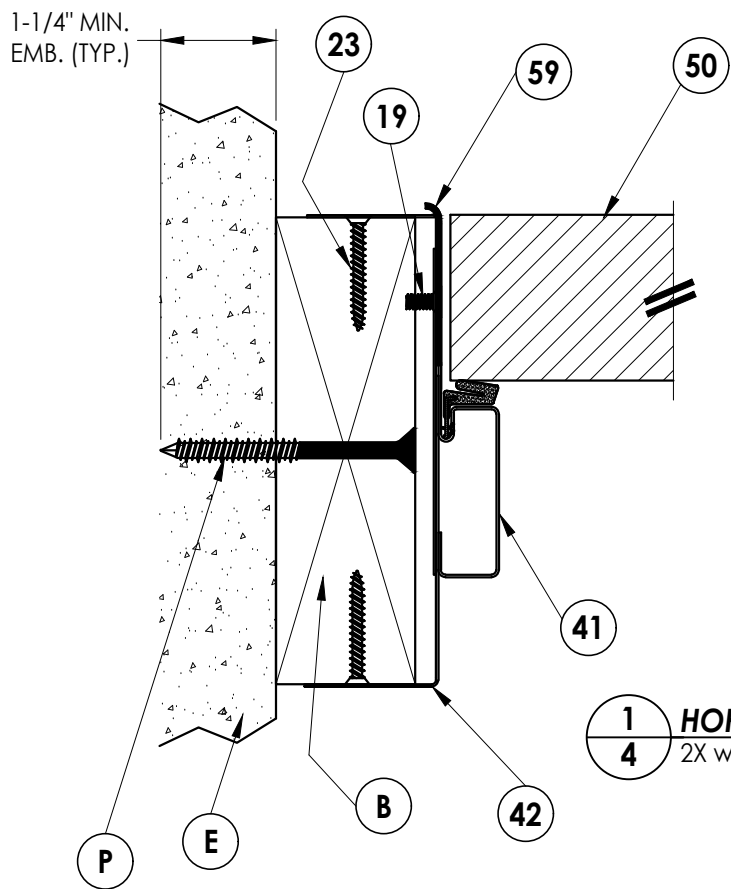
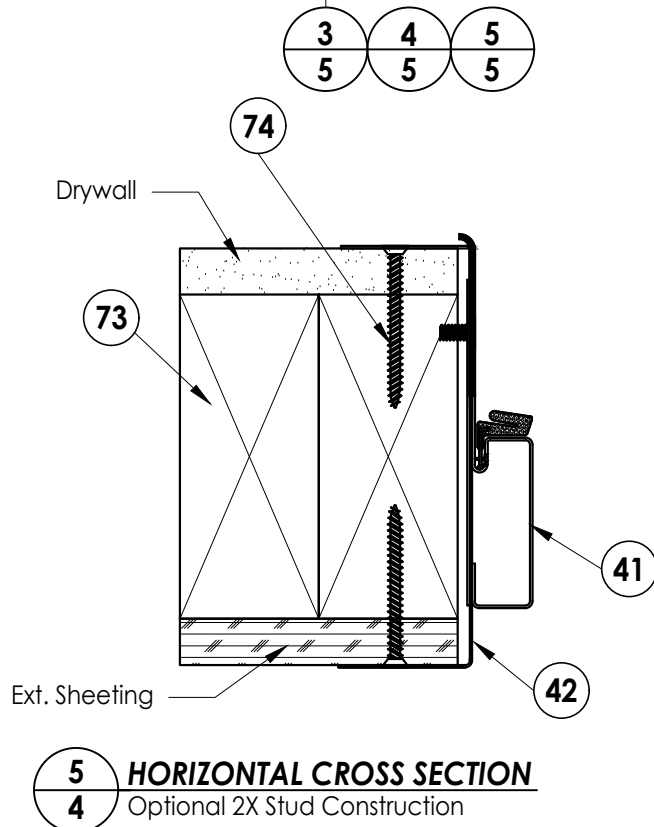
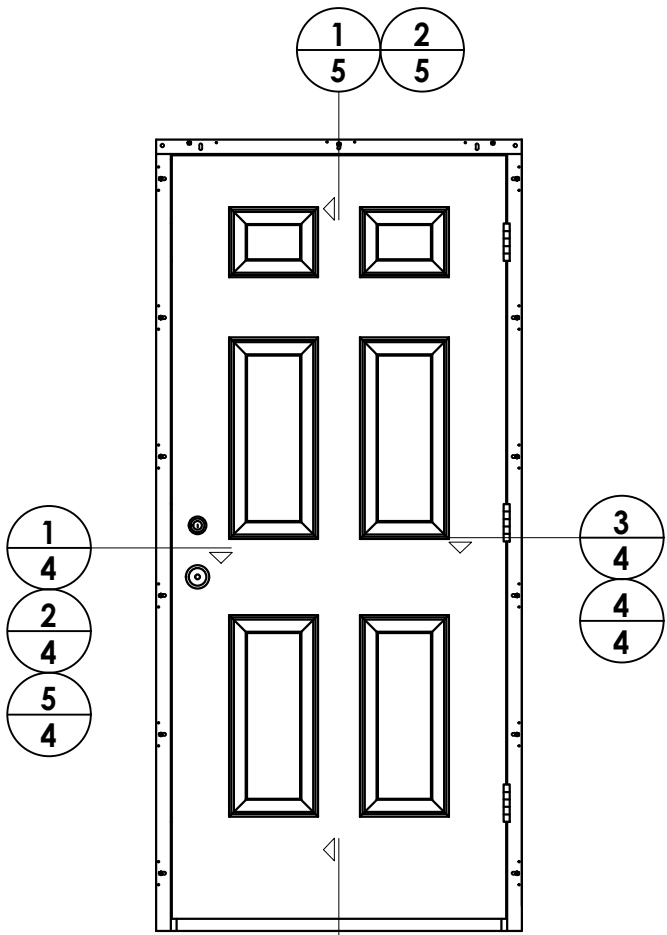
SHEET 2 OF 8

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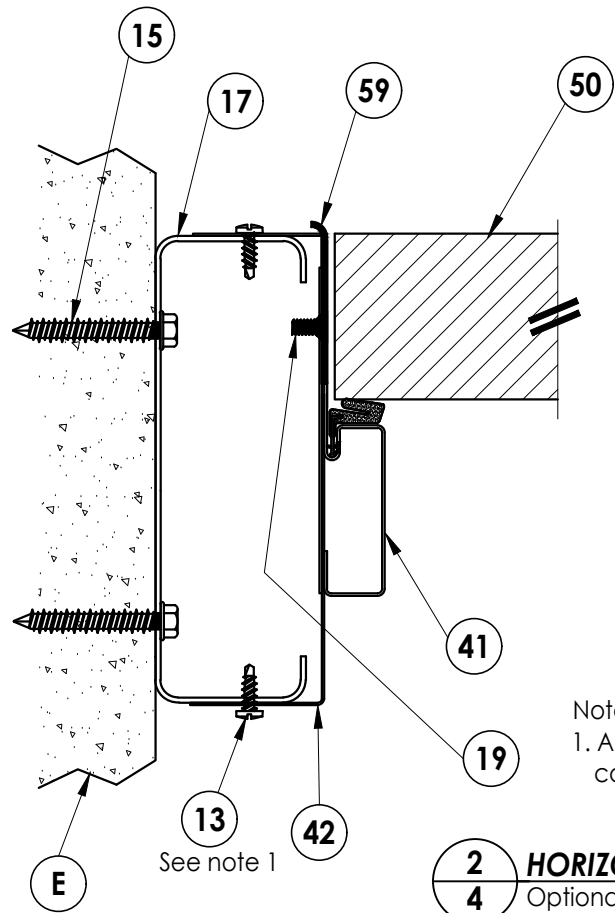
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813



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**1**  
**4** **HORIZONTAL CROSS SECTION**  
2X wood buck



**2**  
**4** **HORIZONTAL CROSS SECTION**  
Optional steel stud construction

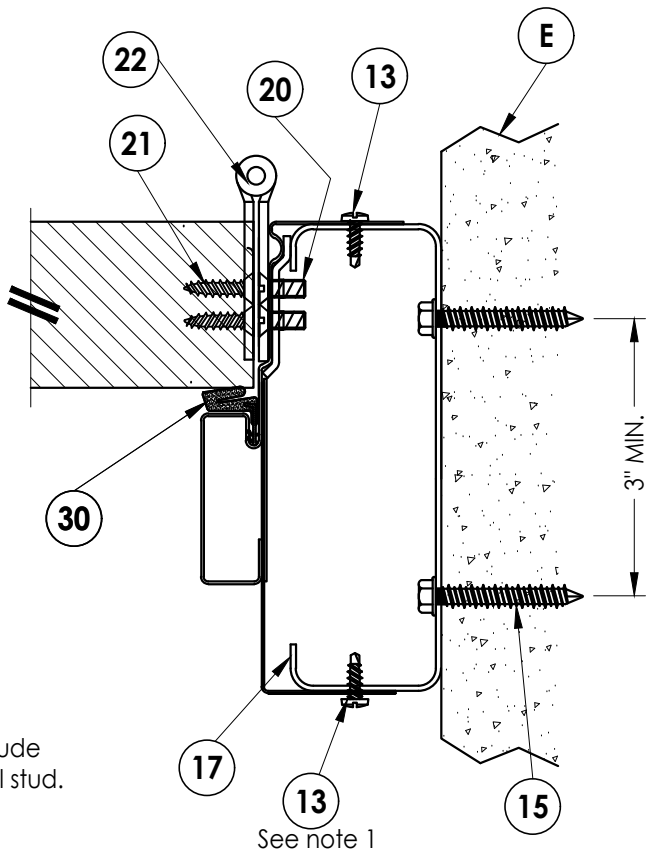
Note:  
1. A minimum of three threads must protrude completely through the supporting steel stud.

INTERIOR

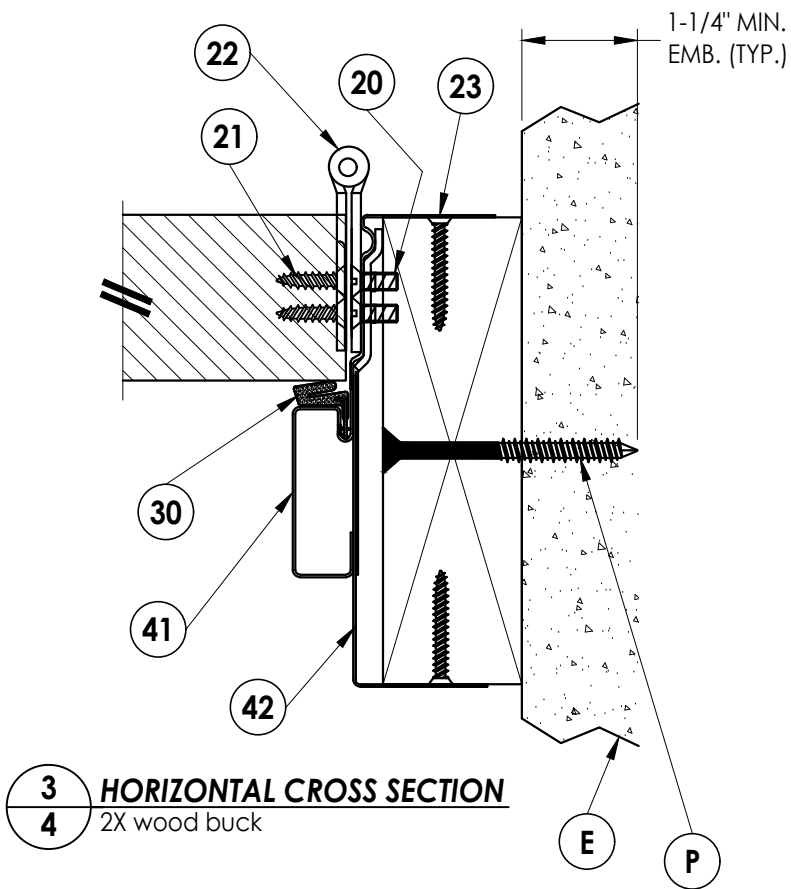
EXTERIOR

INTERIOR

EXTERIOR



**4**  
**4** **HORIZONTAL CROSS SECTION**  
Optional steel stud construction



**3**  
**4** **HORIZONTAL CROSS SECTION**  
2X wood buck

Documents Prepared By:

Lyndon F. Schmidt  
P.E. No. 43409

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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:  
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 LFS             |
| 1   | 3/23/15 | UPDATE TO 5TH ED. (2014) FBC JK  |

DATE: 03/14/12

SCALE: N.T.S.

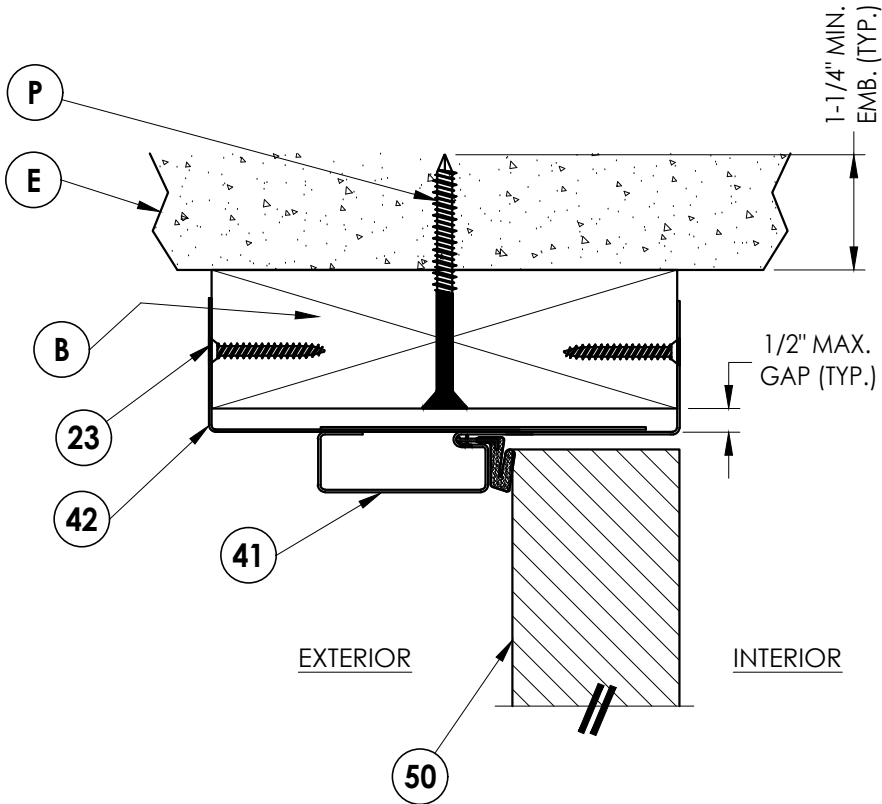
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CHK. BY: LFS

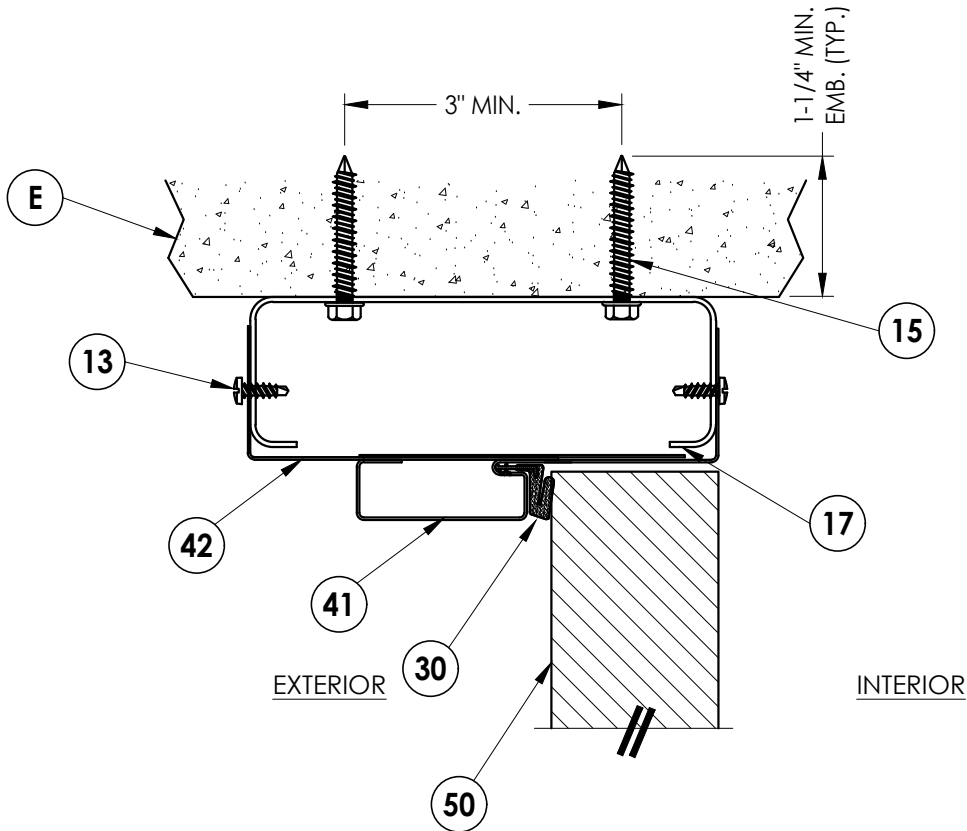
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FL-15341.2

SHEET 4 OF 8

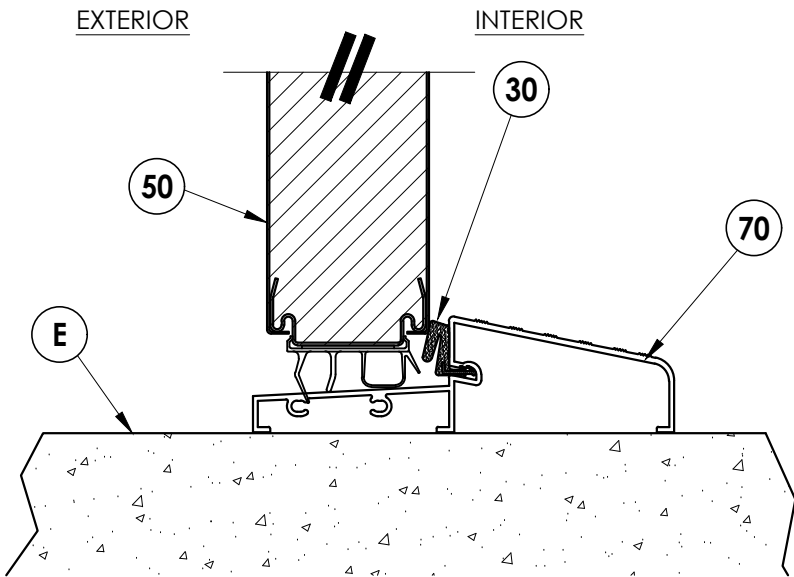
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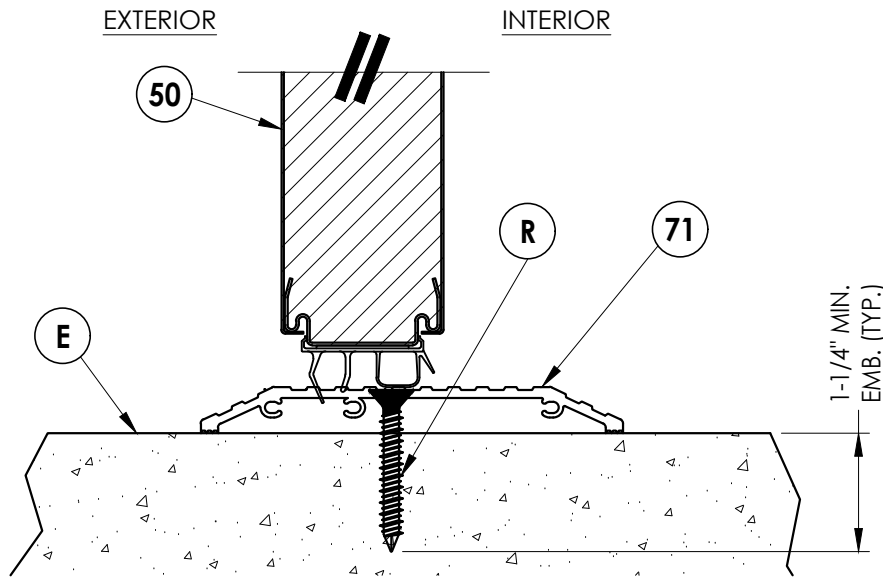
1 VERTICAL CROSS SECTION  
5 2X wood buck



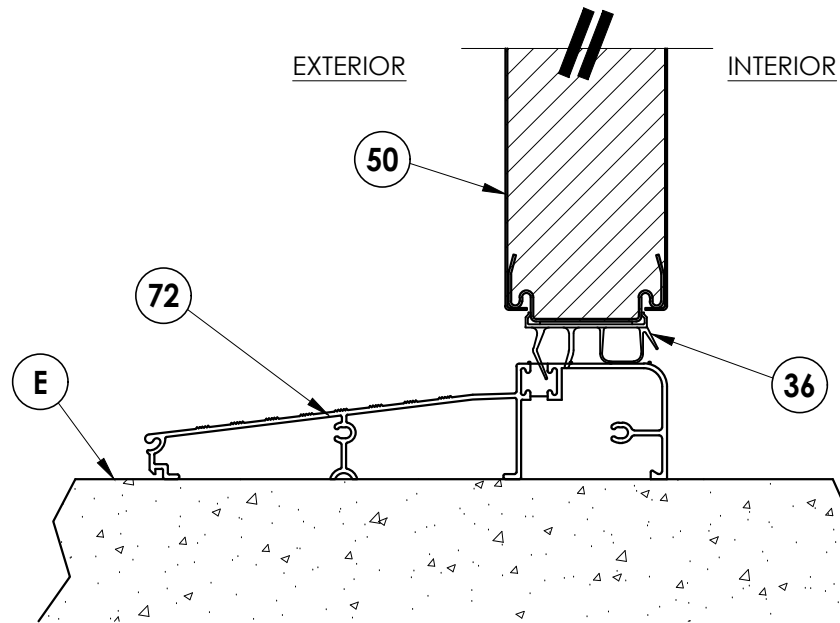
2 VERTICAL CROSS SECTION  
5 Optional steel stud construction



3 VERTICAL CROSS SECTION  
5



4 VERTICAL CROSS SECTION  
5 Shown w/ ADA threshold



5 VERTICAL CROSS SECTION  
5

Documents Prepared By:  
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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:  
VERTICAL  
CROSS SECTIONS

| LFS | FBC     | (2026)            | (2023) | (2020) | (2017) | (2014) | JK | BY |
|-----|---------|-------------------|--------|--------|--------|--------|----|----|
| 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    |        |        |    |    |
| NO. | DATE    | REVISIONS         |        |        |        |        |    |    |

DATE: 03/14/12

SCALE: N.T.S.

DWG. BY: JK

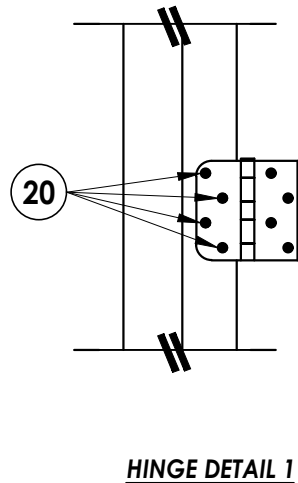
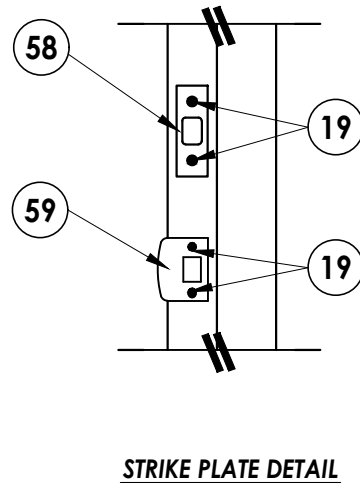
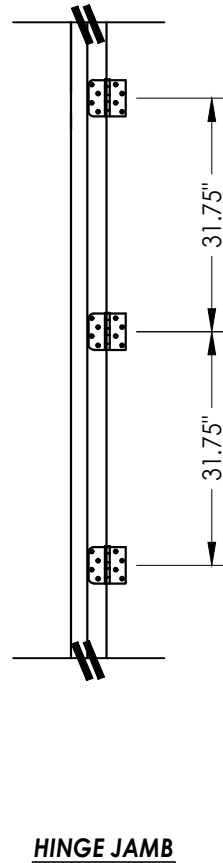
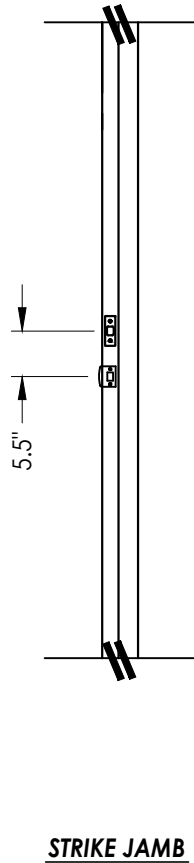
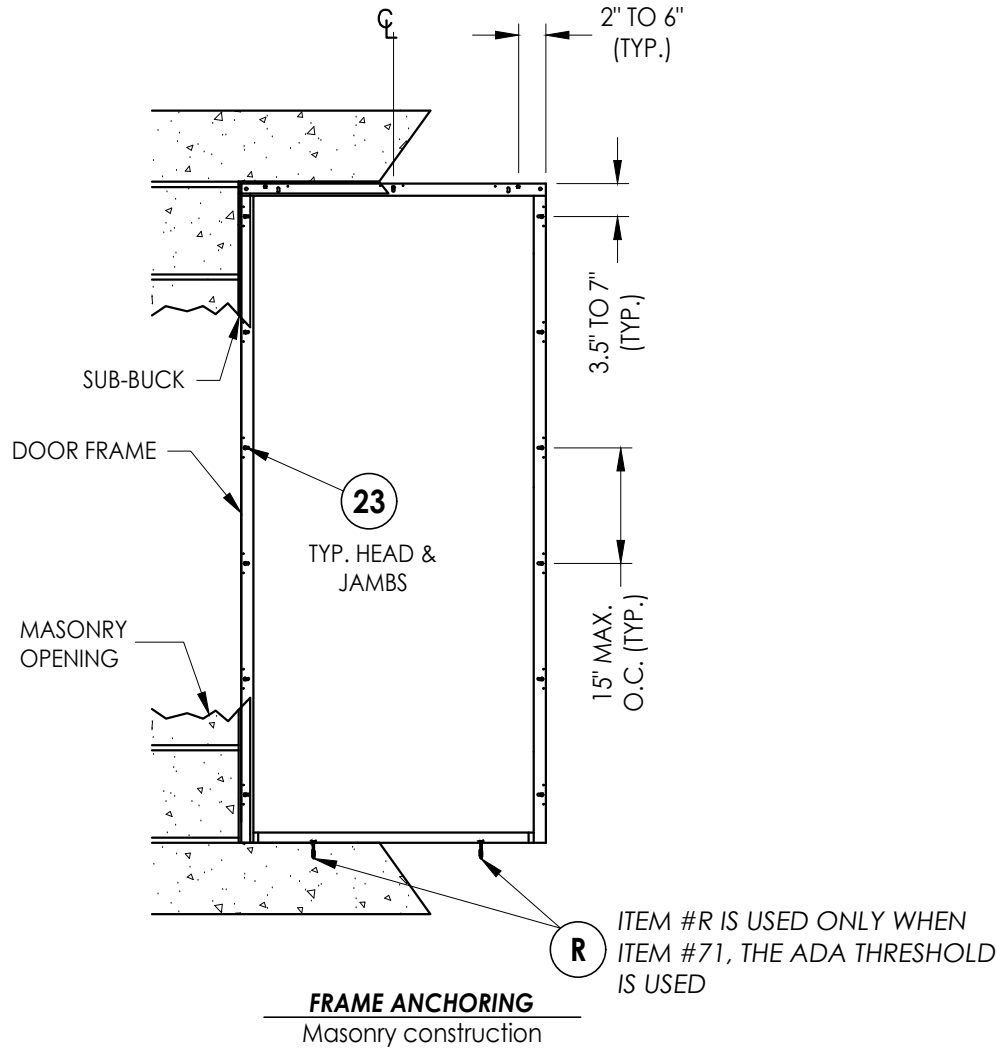
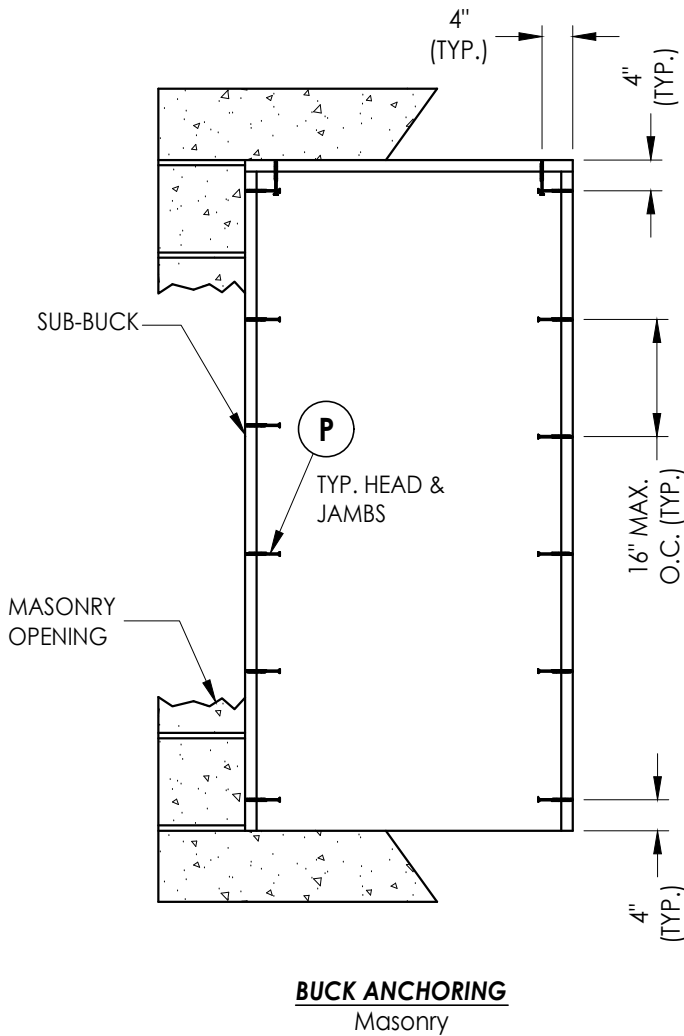
CHK. BY: LFS

DRAWING NO.:

FL-15341.2

SHEET 5 OF 8

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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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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 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 LFS             |
| 1   | 3/23/15 | UPDATE TO 5TH ED. (2014) FBC JK  |

DATE: 03/14/12

SCALE: N.T.S.

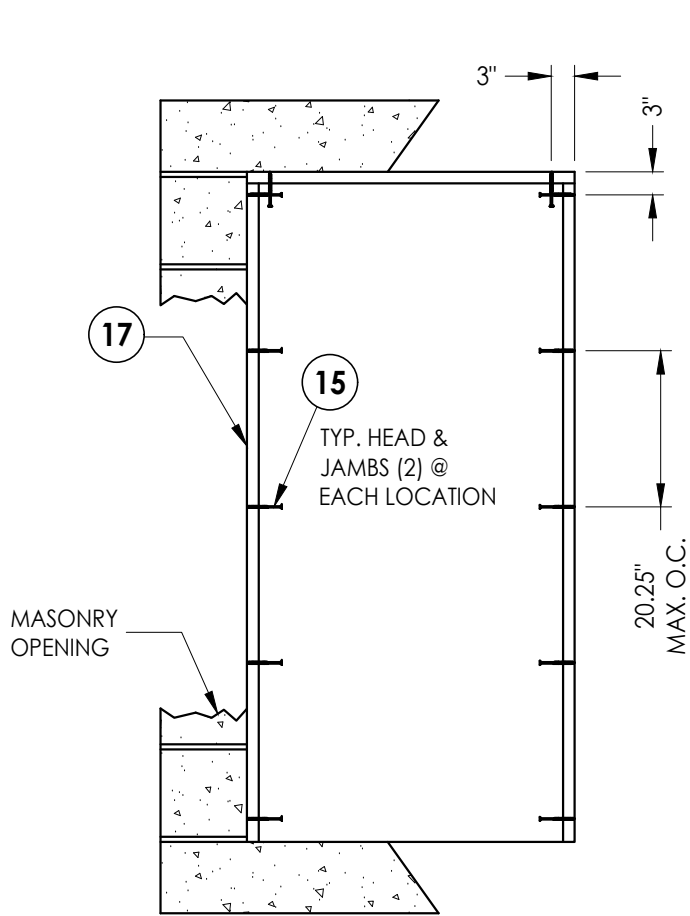
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CHK. BY: LFS

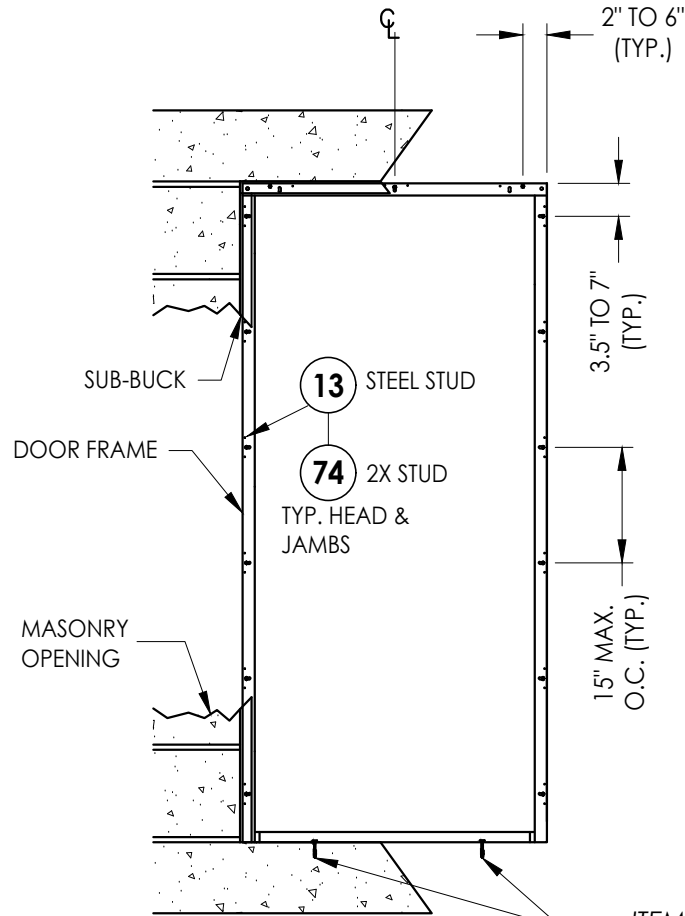
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SHEET 6 OF 8

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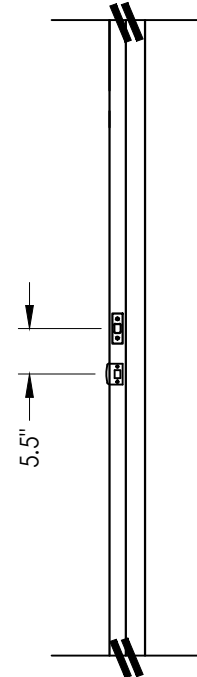


**BUCK ANCHORING**  
Steel stud

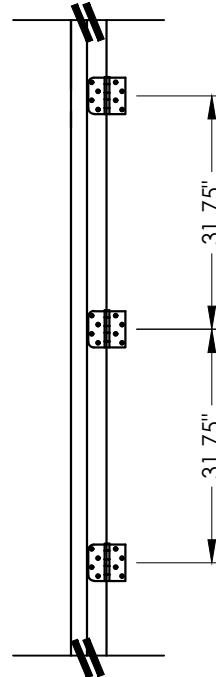


**FRAME ANCHORING**  
Stud construction

ITEM #R IS USED ONLY WHEN  
ITEM #71, THE ADA THRESHOLD  
IS USED



**STRIKE JAMB**



**HINGE JAMB**

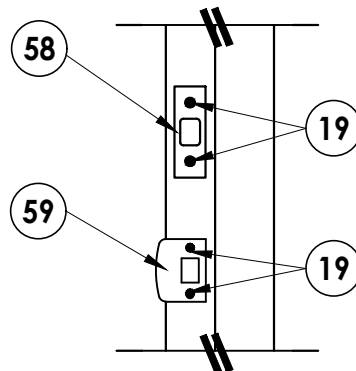
**CONCRETE ANCHOR NOTES:**

- 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:

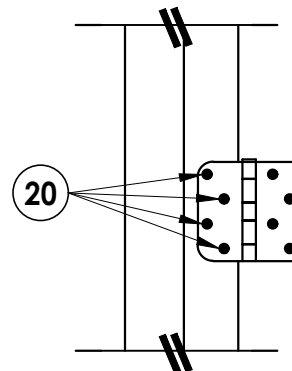
| ANCHOR TYPE      | ANCHOR SIZE | MIN. EMBEDMENT | MIN. CLEARANCE TO MASONRY EDGE | MIN. CLEARANCE TO ADJACENT ANCHOR |
|------------------|-------------|----------------|--------------------------------|-----------------------------------|
| ITW TAPCON®      | 1/4"        | 1-1/4"         | 2"                             | 4" / 3" (steel stud)              |
| 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.



**STRIKE PLATE DETAIL**



**HINGE DETAIL 1**

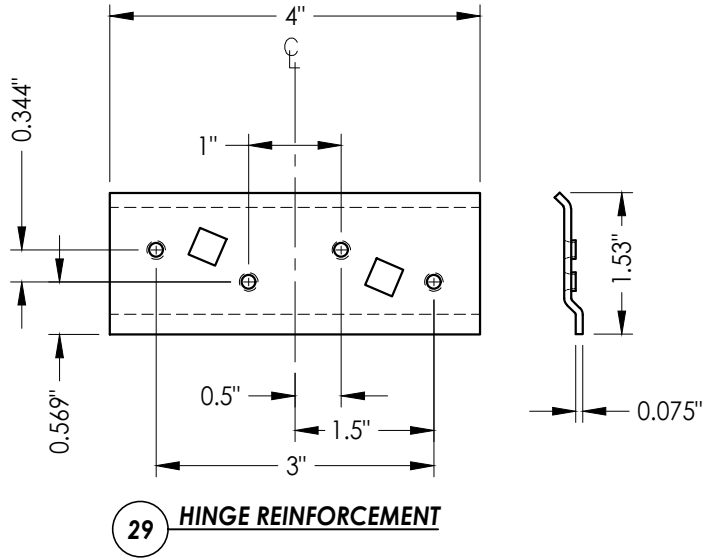
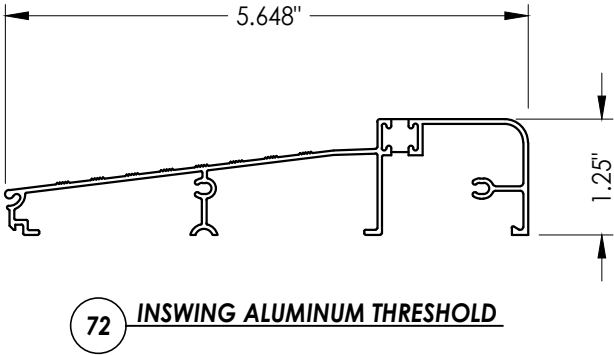
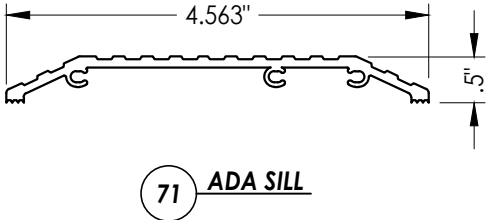
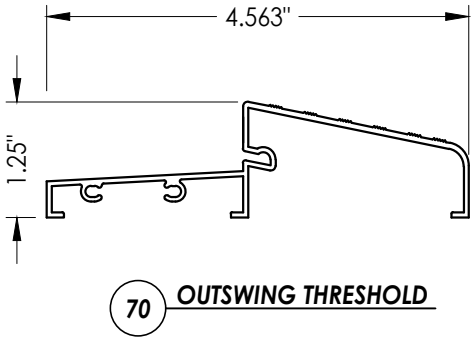
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| 4                       | 8/11/20 | UPDATE TO 7TH ED. (2020) | FBC | DAC |
| 3                       | 9/30/17 | UPDATE TO 6TH ED. (2017) | FBC | LFS |
| 2                       | 1/27/16 | REVISE ANCHORING         |     | LFS |
| 1                       | 3/23/15 | UPDATE TO 5TH ED. (2014) | FBC | JK  |
| NO.                     | DATE    |                          |     | BY  |
| REVISIONS               |         |                          |     |     |
| DATE: 03/14/12          |         |                          |     |     |
| SCALE: N.T.S.           |         |                          |     |     |
| DWG. BY: JK             |         |                          |     |     |
| CHK. BY: LFS            |         |                          |     |     |
| DRAWING NO.: FL-15341.2 |         |                          |     |     |
| SHEET 7 OF 8            |         |                          |     |     |

Documents Prepared By:  
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P.E. No. 43409

**RW** BUILDING CONSULTANTS, INC.  
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Phone No.: 813.659.9197  
FBPE Registry No. 9813

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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" ITW HWH 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                | #9 X 1.0" 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 REIN. 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        |
| 43                | DOOR PANEL .020" THK. GALV. STEEL, WOOD EDGE BY MASONITE                                                          | STEEL        |
| 44                | WOOD LOCK STILE 1.708" x .970" BY MASONITE                                                                        | WOOD         |
| 45                | WOOD LOCK BLOCK 1.708" x 3.375" x 10.75" F. J. PINE BY MASONITE                                                   | WOOD         |
| 46                | WOOD TOP RAIL 1.708" x .908" BY MASONITE                                                                          | WOOD         |
| 47                | WOOD BOTTOM RAIL 1.708" x 1.010" BY MASONITE                                                                      | WOOD         |
| 50                | STEEL DOOR PANEL - BY MASONITE                                                                                    | STEEL        |
| 51                | SIDE STILE 0.043" ROLL FORMED STEEL BY MASONITE                                                                   | STEEL        |
| 52                | DOOR PANEL 0.020" THK. GALV. STEEL, STEEL EDGE BY MASONITE                                                        | STEEL        |
| 53                | WOOD LOCK REIN. FINGER JOINTED PINE BY MASONITE                                                                   | WOOD         |
| 54                | POLYURETHANE FOAM CORE                                                                                            | POLYURETHANE |
| 55                | BOTTOM RAIL .032" THK. ROLL FORMED STEEL BY MASONITE                                                              | STEEL        |
| 56                | TOP RAIL .043" THK ROLL FORMED STEEL BY MASONITE                                                                  | STEEL        |
| 57                | PLASTIC LOCK RING                                                                                                 | PLASTIC      |
| 58                | STRIKE PLATE - DEADBOLT                                                                                           | STEEL        |
| 59                | STRIKE PLATE - LATCHBOLT                                                                                          | STEEL        |
| 60                | EVERSEF LATCH w/ EVERSEF DEADBOLT                                                                                 | STEEL        |
| 61                | KWIKSET SERIES LATCH w/ KWIKSET SERIES (660) DEADBOLT                                                             | STEEL        |
| 62                | SCHLAGE LATCH (F SERIES) w/ SCHLAGE DEADBOLT (B60/62)                                                             | 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        |



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| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |  |  |  | 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