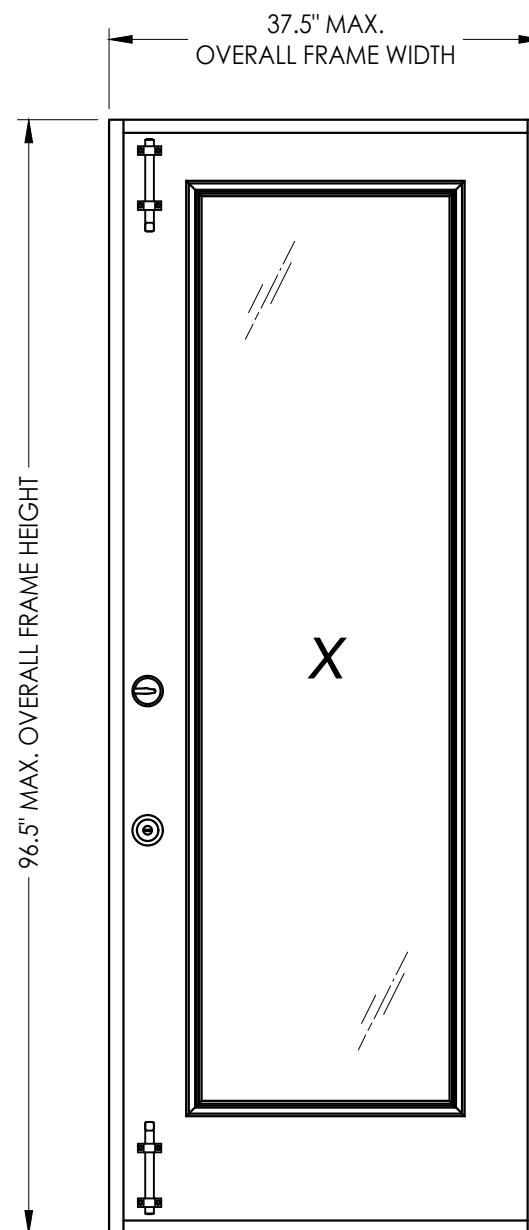


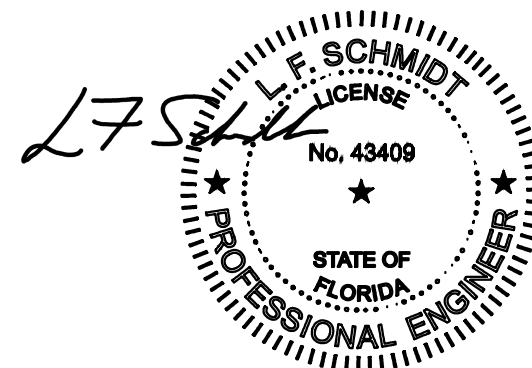
## GENERAL NOTES

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 is required to be protected with an impact resistant covering that complies with FBC Sections 1609.1.2 & R301.2.1.2.
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 elevations, design pressures & general notes    |
| 2                 | Door panel details & Glazing Details                    |
| 3                 | Horizontal cross sections                               |
| 4                 | Vertical cross sections                                 |
| 5                 | Buck and frame anchoring - 2X buck masonry construction |
| 6                 | Frame anchoring - 1X buck masonry construction          |
| 7                 | Bill of Materials, Components                           |



| CONFIGURATION | DESIGN PRESSURE (PSF)<br>OUTSWING |          |
|---------------|-----------------------------------|----------|
|               | POSITIVE                          | NEGATIVE |
| X             | +48.0                             | -51.0    |



Digitally signed by Lyndon F Schmidt  
Date: 2023.08.07 14:03:33 -04'00'

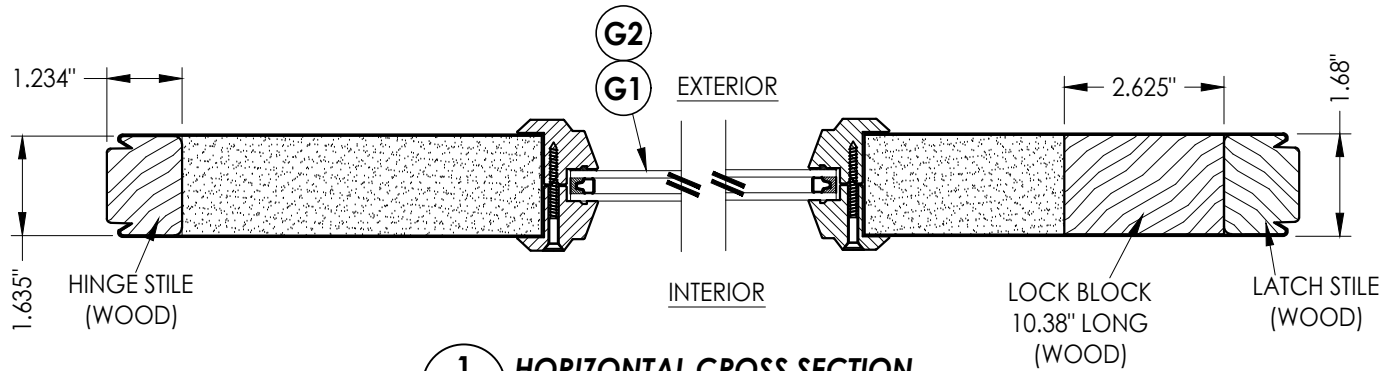
This item has been digitally signed and sealed by  
**L. F. Schmidt, P.E.** on the date adjacent to the seal.

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

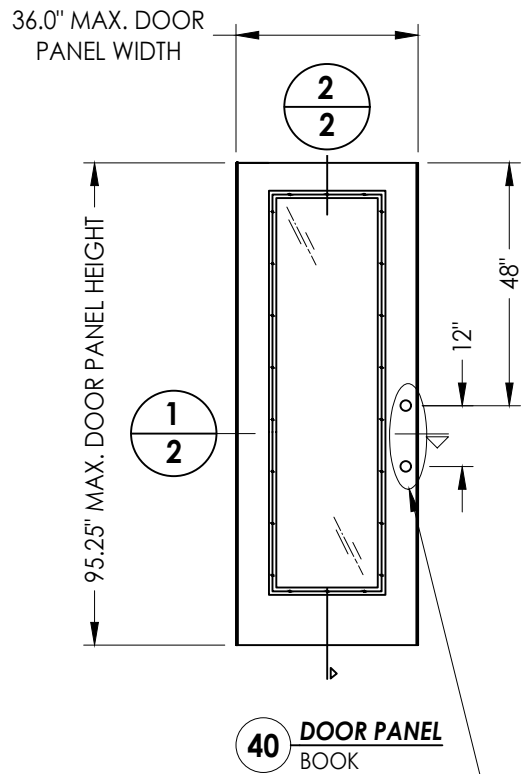
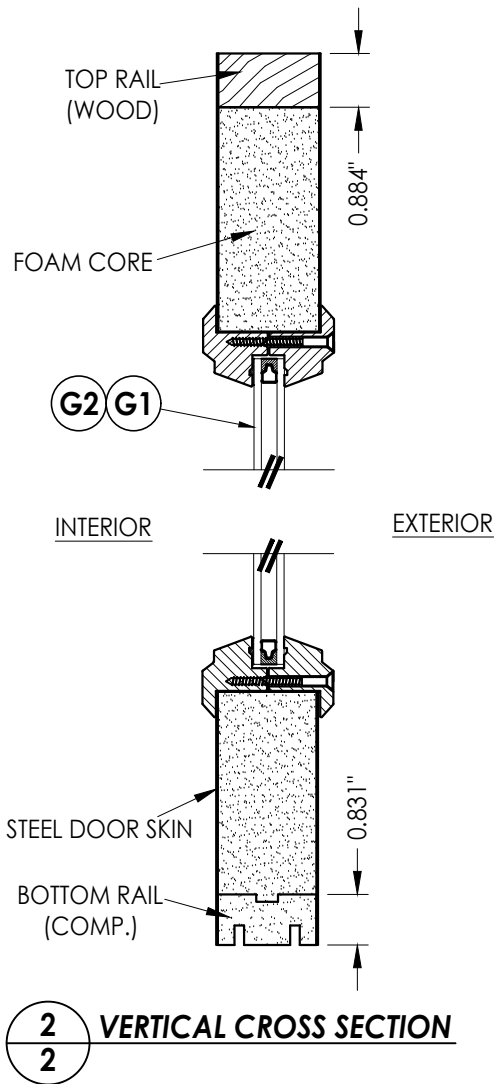
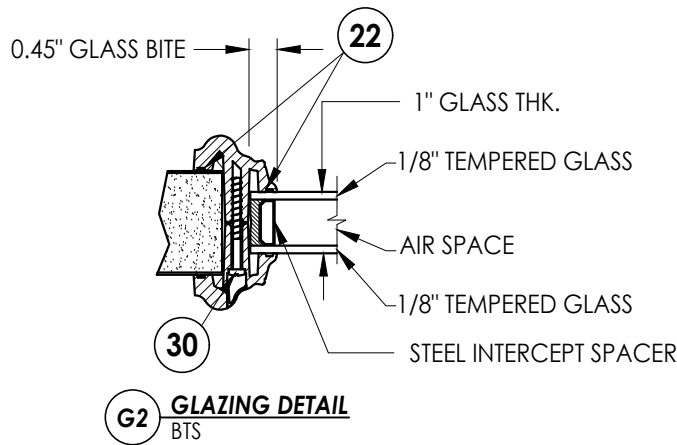
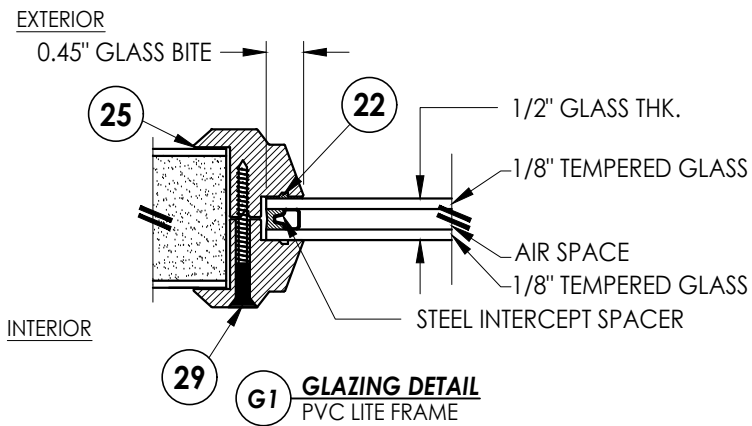
THIS PRODUCT APPROVAL IS VALID  
ONLY FOR THE STATE OF FLORIDA

[illegible]

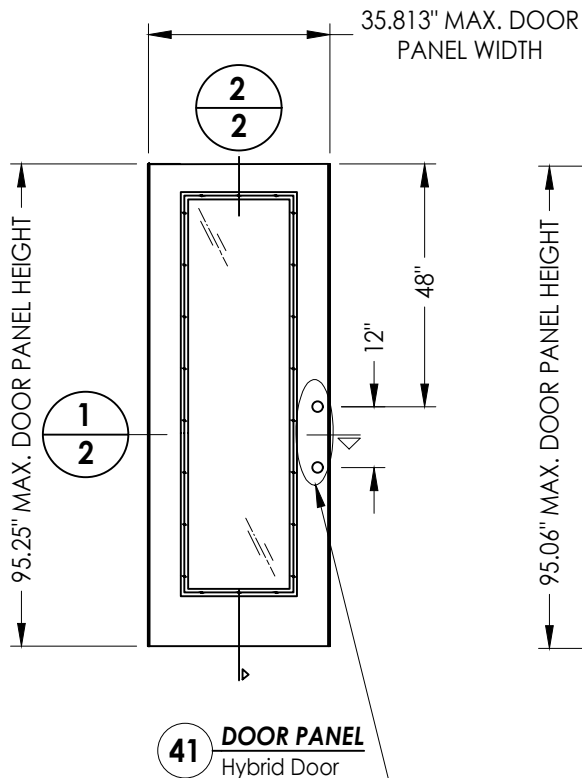
Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.10.dwg



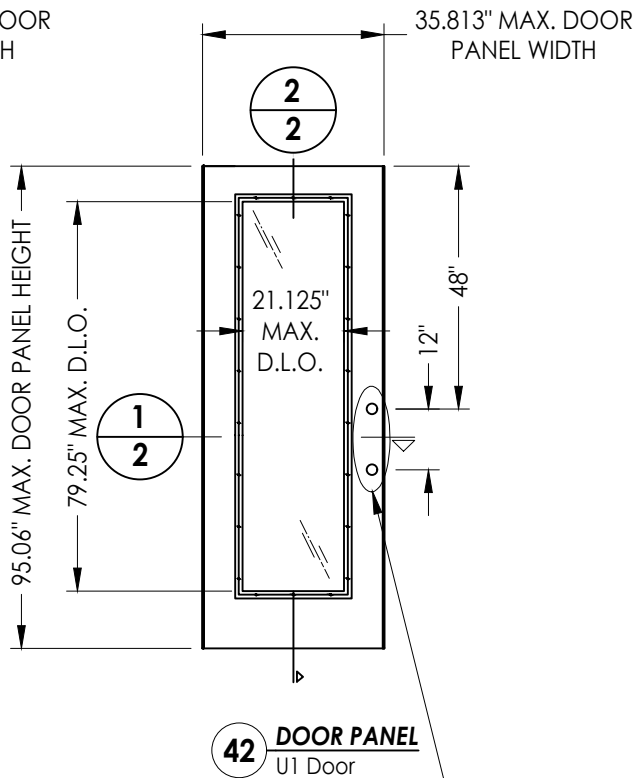
1  
2  
**HORIZONTAL CROSS SECTION**



SEE HARDWARE CHART



SEE HARDWARE CHART



SEE HARDWARE CHART

| HARDWARE TABLE |           |                      |
|----------------|-----------|----------------------|
| MANUFACTURER   | MODEL     |                      |
| KWIKSET        | KNOB:     | KWIKSET SERIES       |
|                | DEADBOLT: | KWIKSET SERIES (660) |

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: THERMA-TRU STEEL DOOR  
  
PART OR ASSEMBLY: "TRADITIONS" DOOR PANEL AND GLAZING DETAILS

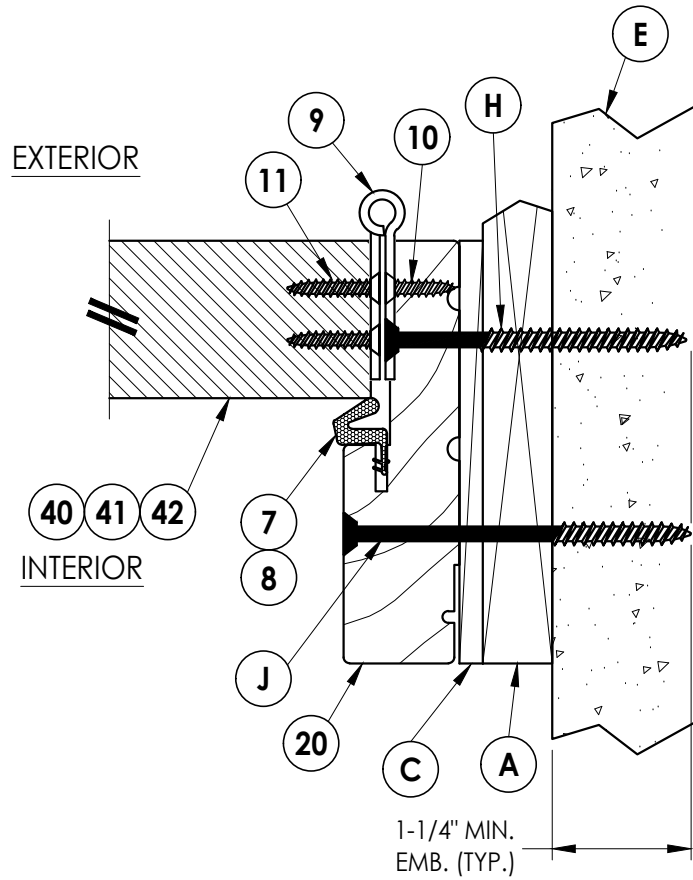
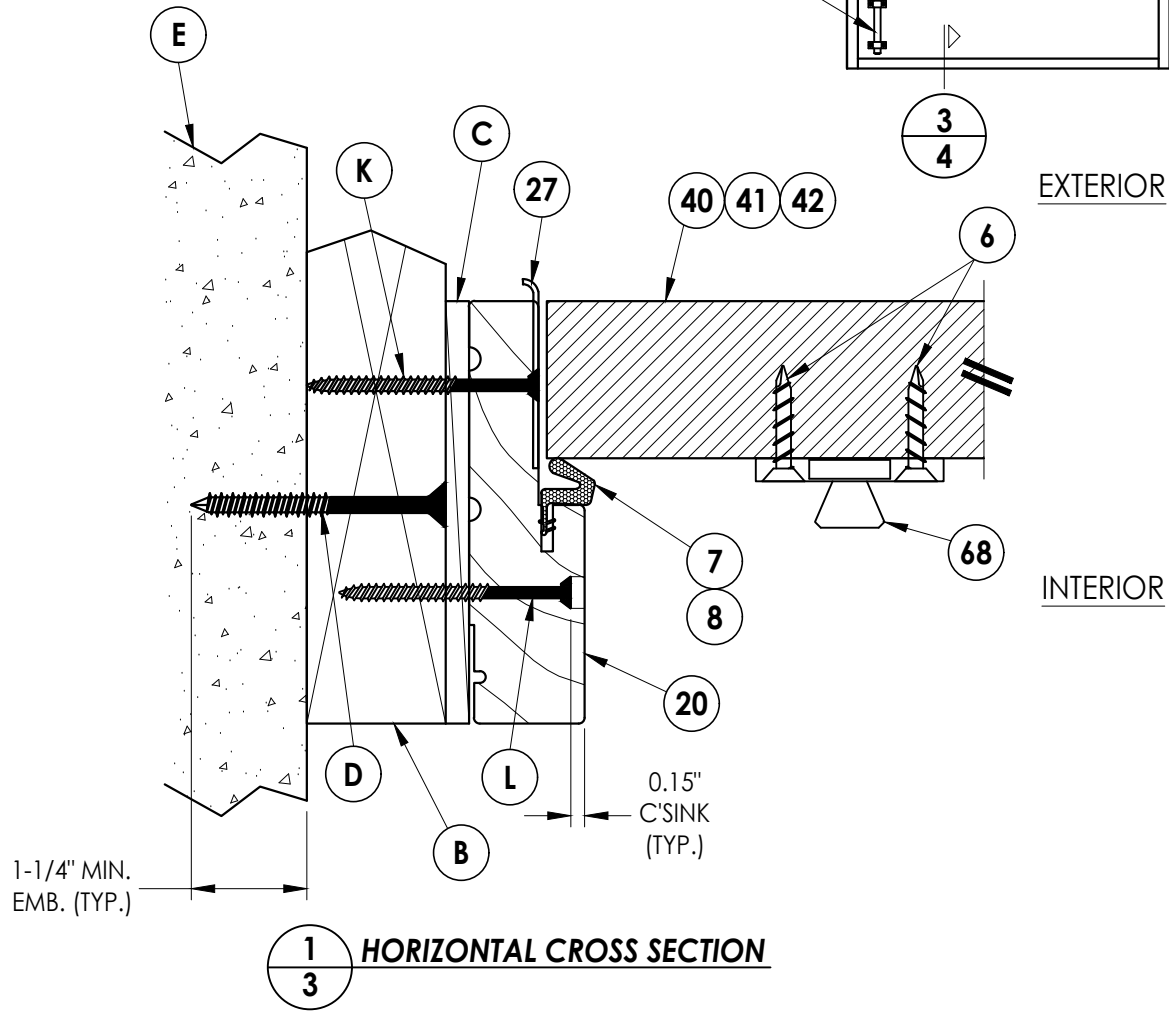
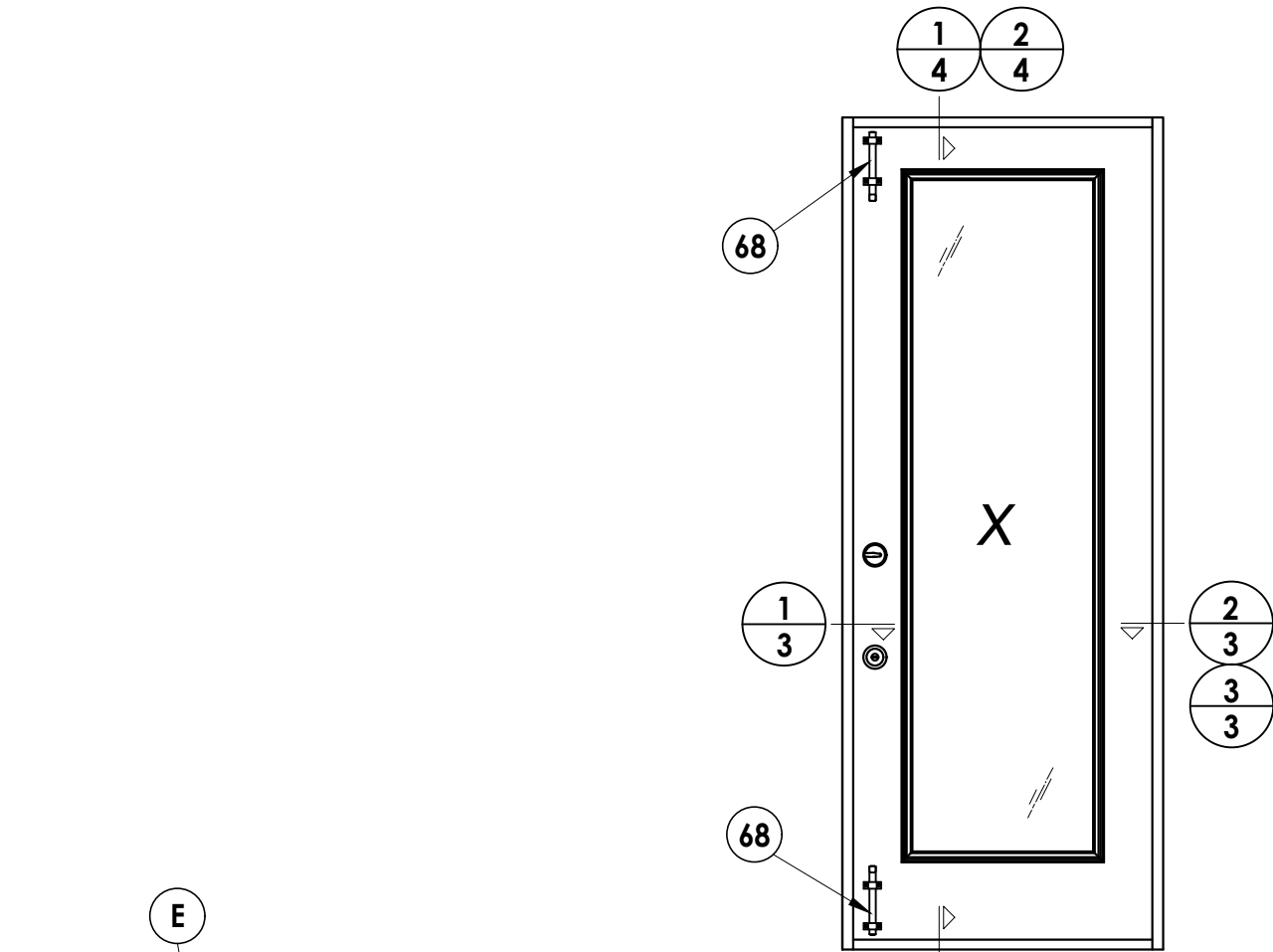
| NO. | DATE    | REVISIONS                |         |
|-----|---------|--------------------------|---------|
|     |         | BY                       |         |
| 2   | 8/07/23 | UPDATE TO 8TH ED. (2023) | FBC LFS |
| 1   | 7/14/20 | UPDATE TO 7TH ED (2020)  | FBC LFS |

DATE: 10/12/17  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-21131.10  
SHEET 2 OF 7

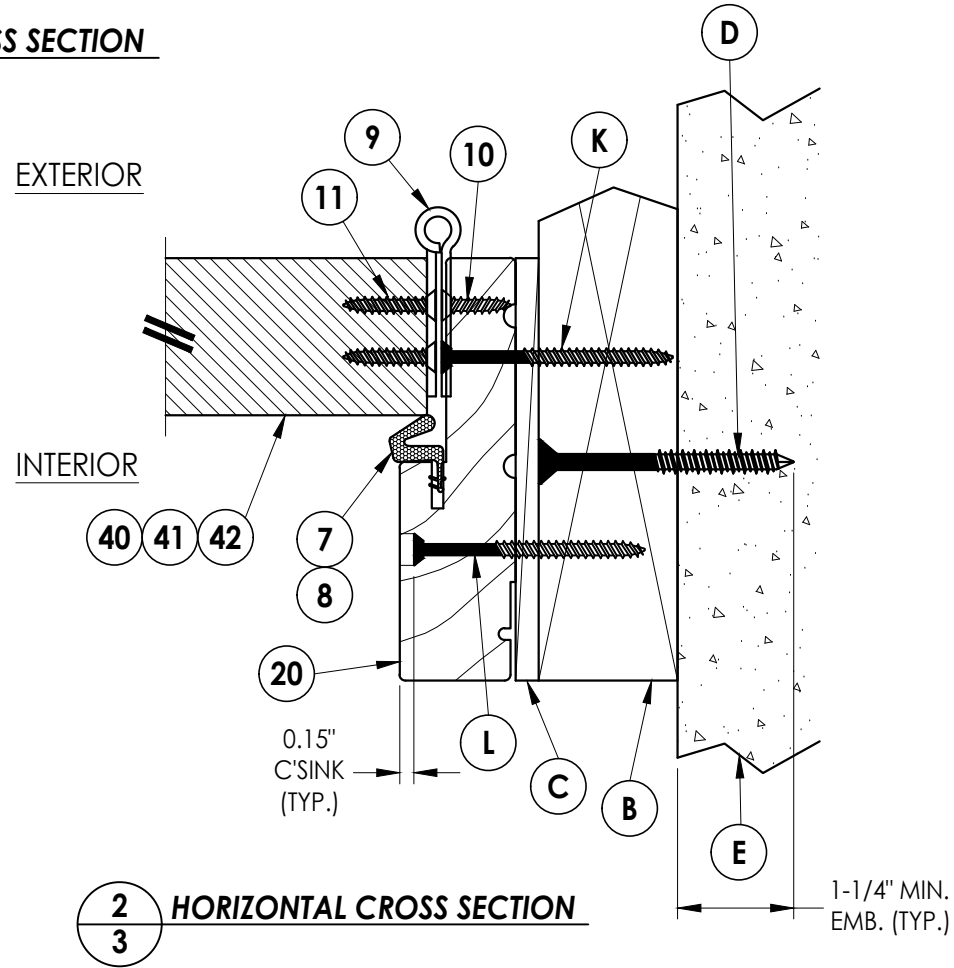
**"TRADITIONS" SERIES DOOR PANEL**

STEEL DOOR SKIN: 24 GA. (0.022" MIN. THICKNESS, Fy = 48,470 PSI MIN.)  
FOAM CORE: POLYURETHANE FOAM (1.9 PCF MIN.)

Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.10.dwg

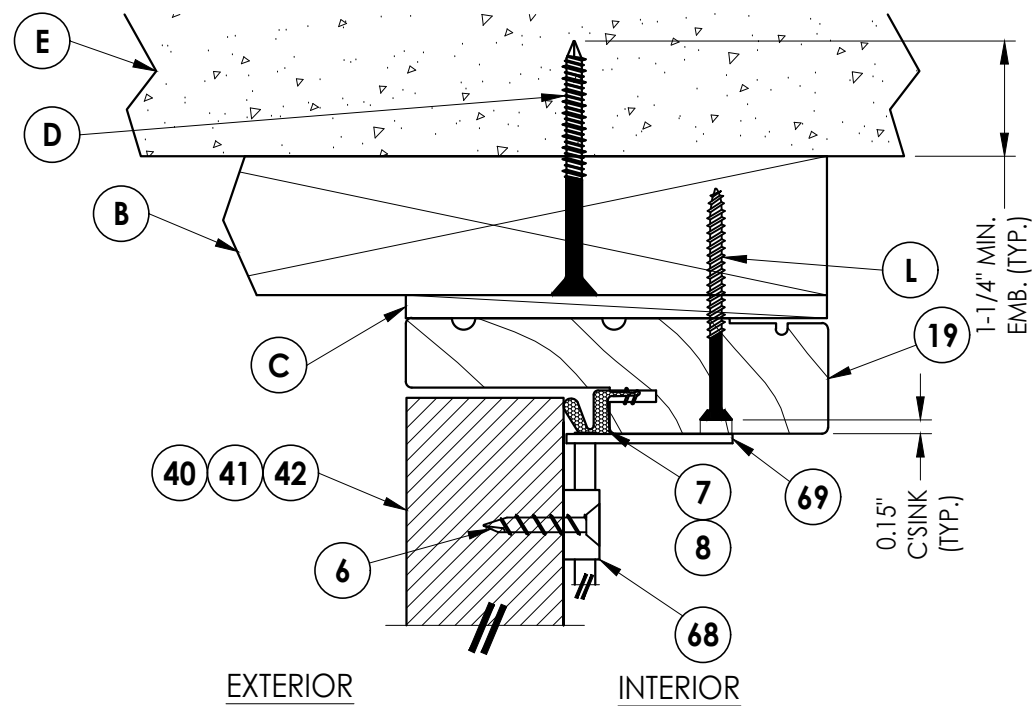


**3**  
**3** **HORIZONTAL CROSS SECTION**  
Shown w/ 1X sub-buck

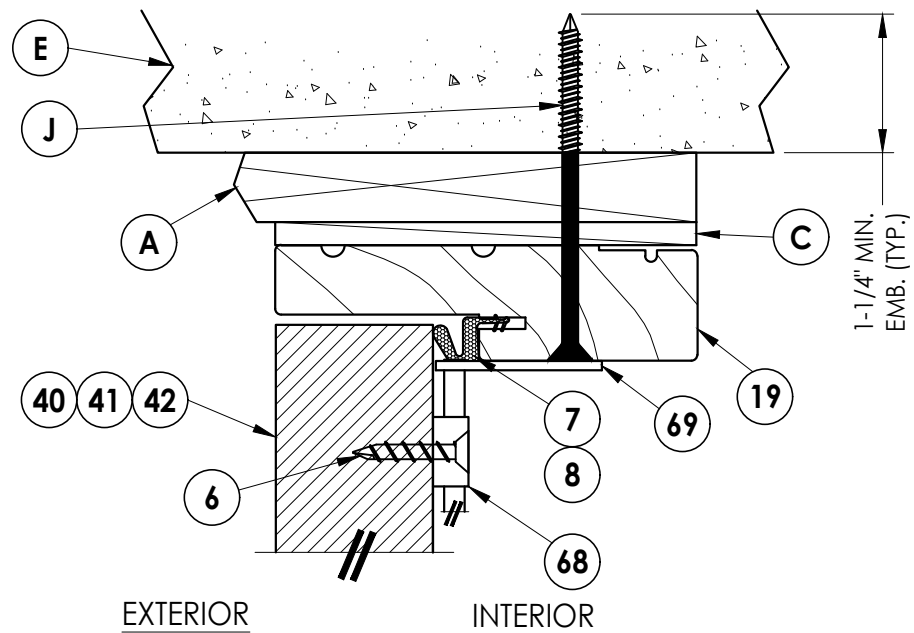


**2**  
**3** **HORIZONTAL CROSS SECTION**

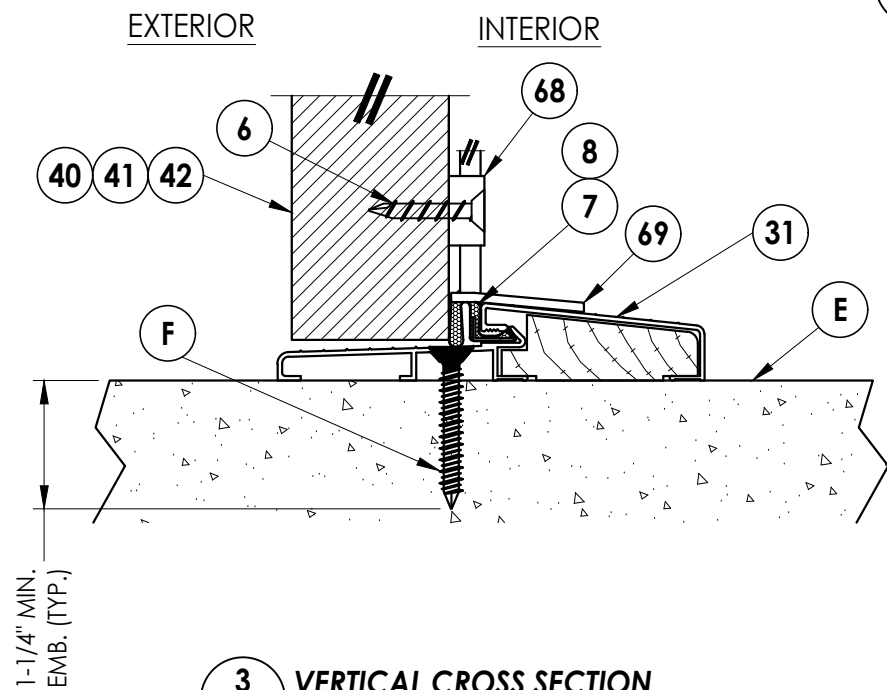
|                                                               |         |                                                                                                                    |     |
|---------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------|-----|
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |         | BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |     |
| PRODUCT:<br>THERMA-TRU<br>STEEL DOOR                          |         | PART OR ASSEMBLY:<br>HORIZONTAL<br>CROSS SECTIONS                                                                  |     |
|                                                               |         | LFS                                                                                                                | BY  |
|                                                               |         | FBC                                                                                                                |     |
| 2                                                             | 8/07/23 | UPDATE TO 8TH ED. (2023)                                                                                           | FBC |
| 1                                                             | 7/14/20 | UPDATE TO 7TH ED (2020)                                                                                            | FBC |
| NO.                                                           | DATE    | REVISIONS                                                                                                          |     |
| DATE: 10/12/17                                                |         |                                                                                                                    |     |
| SCALE: N.T.S.                                                 |         |                                                                                                                    |     |
| DWG. BY: JK                                                   |         |                                                                                                                    |     |
| CHK. BY: LFS                                                  |         |                                                                                                                    |     |
| DRAWING NO.:<br>FL-21131.10                                   |         |                                                                                                                    |     |
| SHEET 3 OF 7                                                  |         |                                                                                                                    |     |



**1** **VERTICAL CROSS SECTION**  
**4**



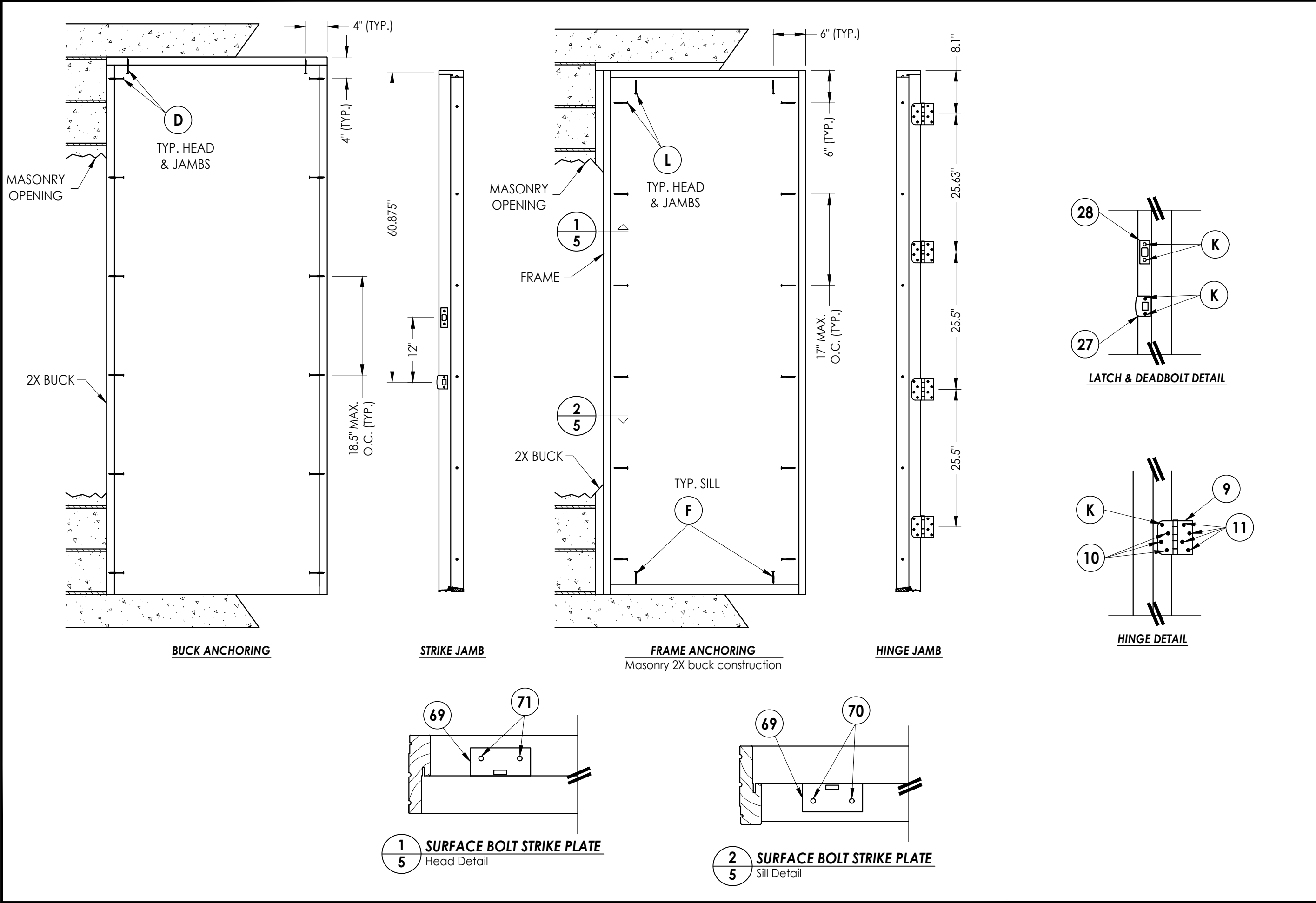
**2** **VERTICAL CROSS SECTION**  
**4** Shown w/ 1X sub-buck



### 3 VERTICAL CROSS SECTION

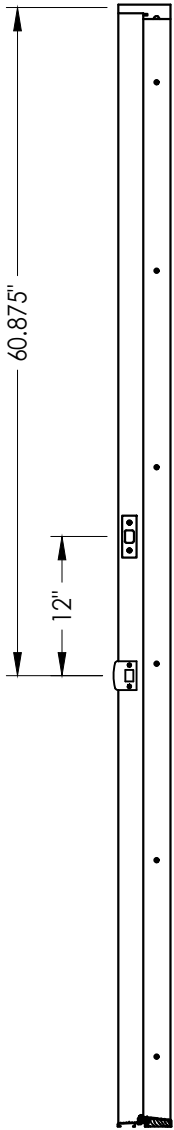
[illegible]

Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.10.dwg

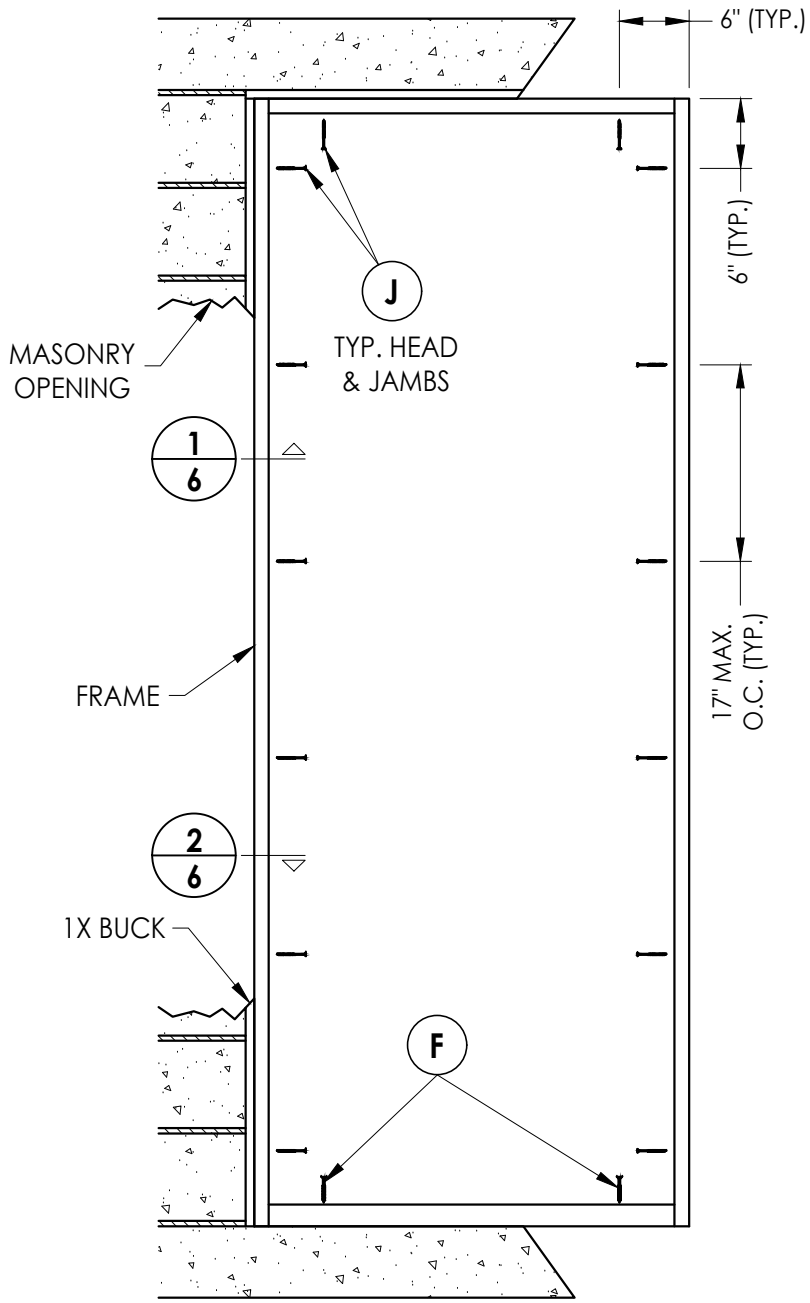


|                                                               |         |                                                                                                                                   |    |
|---------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------|----|
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |         | R <sup>W</sup> BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |    |
| PRODUCT:<br>THERMA-TRU<br>STEEL DOOR                          |         | PART OR ASSEMBLY:<br>BUCK AND FRAME ANCHORING 2X<br>BUCK MASONRY CONSTRUCTION                                                     |    |
|                                                               |         | LFS                                                                                                                               | BY |
|                                                               |         | FBC                                                                                                                               |    |
| 2                                                             | 8/07/23 | UPDATE TO 8TH ED. (2023)                                                                                                          |    |
| 1                                                             | 7/14/20 | UPDATE TO 7TH ED (2020)                                                                                                           |    |
| NO. DATE                                                      |         | REVISIONS                                                                                                                         |    |
| DATE: 10/12/17                                                |         |                                                                                                                                   |    |
| SCALE: N.T.S.                                                 |         |                                                                                                                                   |    |
| DWG. BY: JK                                                   |         |                                                                                                                                   |    |
| CHK. BY: LFS                                                  |         |                                                                                                                                   |    |
| DRAWING NO.:<br>FL-21131.10                                   |         |                                                                                                                                   |    |
| SHEET 5 OF 7                                                  |         |                                                                                                                                   |    |

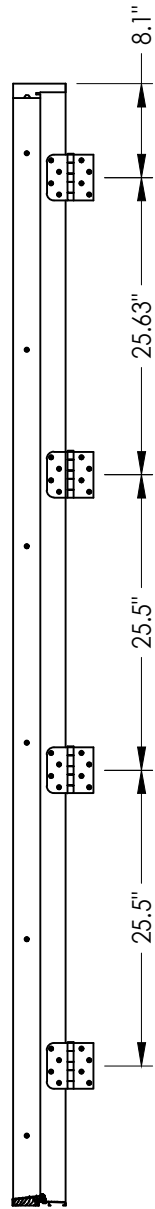
Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.10.dwg



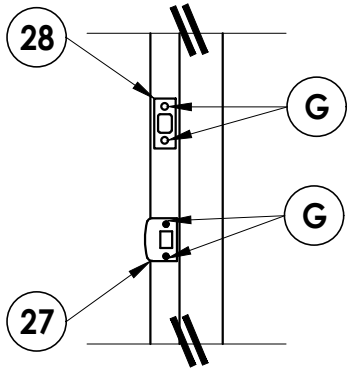
STRIKE JAMB



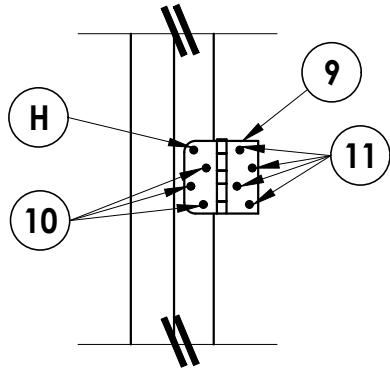
FRAME ANCHORING  
Masonry 1X buck construction



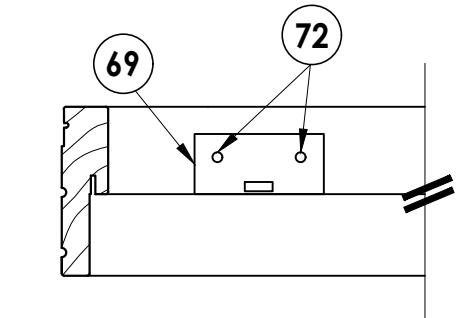
HINGE JAMB



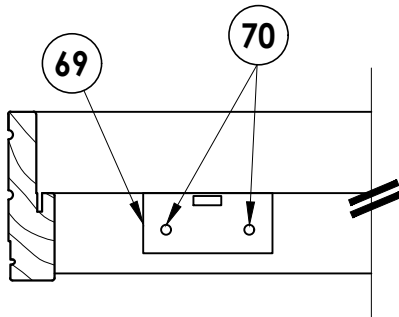
LATCH & DEADBOLT DETAIL



HINGE DETAIL



1  
6 SURFACE BOLT STRIKE PLATE  
Head Detail



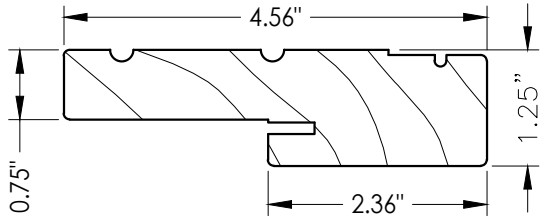
2  
6 SURFACE BOLT STRIKE PLATE  
Sill Detail

|                                                               |  |                                                                      |         |                                                                                                                      |     |     |    |
|---------------------------------------------------------------|--|----------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------|-----|-----|----|
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |  |                                                                      |         | RWBUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |     |     |    |
| PRODUCT:<br>THERMA-TRU<br>STEEL DOOR                          |  | PART OR ASSEMBLY:<br>FRAME ANCHORING 1X BUCK<br>MASONRY CONSTRUCTION |         |                                                                                                                      |     |     |    |
|                                                               |  |                                                                      |         | LFS                                                                                                                  | FBC | LFS | BY |
|                                                               |  | 2                                                                    | 8/07/23 | UPDATE TO 8TH ED. (2023)                                                                                             | FBC | LFS |    |
|                                                               |  | 1                                                                    | 7/14/20 | UPDATE TO 7TH ED (2020)                                                                                              | FBC | LFS |    |
|                                                               |  | NO.                                                                  | DATE    | REVISIONS                                                                                                            |     |     |    |
| DATE: 10/12/17                                                |  |                                                                      |         |                                                                                                                      |     |     |    |
| SCALE: N.T.S.                                                 |  |                                                                      |         |                                                                                                                      |     |     |    |
| DWG. BY: JK                                                   |  |                                                                      |         |                                                                                                                      |     |     |    |
| CHK. BY: LFS                                                  |  |                                                                      |         |                                                                                                                      |     |     |    |
| DRAWING NO.:<br>FL-21131.10                                   |  |                                                                      |         |                                                                                                                      |     |     |    |
| SHEET 6 OF 7                                                  |  |                                                                      |         |                                                                                                                      |     |     |    |

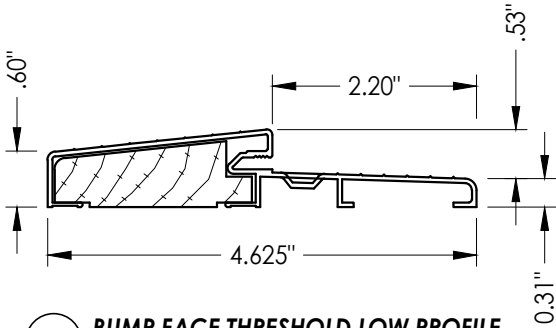
Z:\2023 FBC Drawings\Therma-Tru\FL-21131 R2\FL-21131.10.dwg

| BILL OF MATERIALS |                                                                                                |              |
|-------------------|------------------------------------------------------------------------------------------------|--------------|
| ITEM              | DESCRIPTION                                                                                    | MATERIAL     |
| A                 | 1X BUCK SG >= 0.55                                                                             | WOOD         |
| B                 | 2X BUCK SG >= 0.55                                                                             | WOOD         |
| C                 | MAX. 1/4" SHIM SPACE                                                                           | WOOD         |
| D                 | 1/4" X 2-3/4" PFH DeWALT CONCRETE SCREW                                                        | STEEL        |
| E                 | MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 | CONCRETE     |
| F                 | 1/4" X 1-3/4" ITW CONCRETE SCREW                                                               | STEEL        |
| G                 | 3/16" X 3-1/4" PFH ITW CONCRETE SCREW                                                          | STEEL        |
| H                 | 1/4" x 3-1/4" PFH ITW CONCRETE SCREW                                                           | STEEL        |
| J                 | 1/4" X 3-3/4" PFH ITW CONCRETE SCREW                                                           | STEEL        |
| K                 | #10 X 2-1/2" PFH WOOD SCREW                                                                    | STEEL        |
| L                 | #10 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMBEDMENT)                                             | STEEL        |
| 6                 | #10 X 1-1/4" L.G. TYPE "A" FLATHEAD                                                            | STEEL        |
| 7                 | SHORT REACH COMPRESSION WEATHER-STRIP                                                          | FOAM         |
| 8                 | LONG REACH COMPRESSION WEATHER-STRIP                                                           | FOAM         |
| 9                 | 4" X 4" HINGE .097" THK. (THERMA-TRU)                                                          | STEEL        |
| 10                | #10 X 3/4" PFH WOOD SCREW (HINGE TO FRAME)                                                     | STEEL        |
| 11                | #10 X 1" PFH WOOD SCREW                                                                        | STEEL        |
| 19                | HEADER JAMB (PINE, SG >= 0.42)                                                                 | WOOD         |
| 20                | SIDE JAMB (PINE, SG >= 0.42)                                                                   | WOOD         |
| 22                | 1/8" THK. CELLULAR GLAZING TAPE (STIK-II TAPE)                                                 | STEEL        |
| 25                | GLAZING COMPOUND (BOSTIK HOT-MELT)                                                             | SILICONE     |
| 27                | LATCH STRIKE PLATE                                                                             | STEEL        |
| 28                | DEADBOLT PLATE                                                                                 | STEEL        |
| 29                | #6-18 X 1-3/4" PFH SCREW                                                                       | STEEL        |
| 30                | #8-10 X 1-1/2" PPH PLASCREW                                                                    | STEEL        |
| 31                | BUMP FACE THRESHOLD LOW PROFILE                                                                | ALUM. / WOOD |
| 40                | DOOR PANEL (BOOK) - "TRADITIONS"                                                               | -            |
| 41                | DOOR PANEL (HYBRID) - "TRADITIONS"                                                             | -            |
| 42                | DOOR PANEL (U1) - "TRADITIONS"                                                                 | -            |
| 68                | IVES SURFACE BOLT (.25 STEEL)                                                                  | STEEL        |
| 69                | SURFACE BOLT STRIKE PLATE (.10" STEEL)                                                         | STEEL        |
| 70                | 3/16" X 2-1/4" PFH ITW CONCRETE SCREW                                                          | STEEL        |
| 71                | #8 X 2-1/2" PFH WOOD SCREW                                                                     | STEEL        |
| 72                | 3/16" X 3-3/4" PFH ITW CONCRETE SCREW                                                          | STEEL        |

NOTE: DOOR & SIDELITE WOOD COMPONENTS: PINE (SG >= 0.42)



19 20 HEAD & SIDE  
Jamb



31 BUMP FACE THRESHOLD LOW PROFILE

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"                                |
| ITW TAPCON®      | 3/16"       | 1-1/4"         | 3"                             | 1-1/2"                            |

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.

|                                                               |         |                                                                                                                         |           |
|---------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------|-----------|
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |         | R.W. BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |           |
| PRODUCT:<br>THERMA-TRU<br>STEEL DOOR                          |         | PART OR ASSEMBLY:<br>BILL OF MATERIALS,<br>COMPONENTS                                                                   |           |
|                                                               |         | LFS                                                                                                                     | BY        |
|                                                               |         | FBC                                                                                                                     |           |
|                                                               |         | FBC                                                                                                                     |           |
|                                                               |         | DATE                                                                                                                    | REVISIONS |
| 2                                                             | 8/07/23 | UPDATE TO 8TH ED. (2023)                                                                                                |           |
| 1                                                             | 7/14/20 | UPDATE TO 7TH ED (2020)                                                                                                 |           |
| DATE: 10/12/17                                                |         |                                                                                                                         |           |
| SCALE: N.T.S.                                                 |         |                                                                                                                         |           |
| DWG. BY: JK                                                   |         |                                                                                                                         |           |
| CHK. BY: LFS                                                  |         |                                                                                                                         |           |
| DRAWING NO.: FL-21131.10                                      |         |                                                                                                                         |           |
| SHEET 7 OF 7                                                  |         |                                                                                                                         |           |