

WINDSERT™

Operational Window Insert  
Utilizing  
A Fiberglass Door Panel

OUTSWING  
"NON-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.

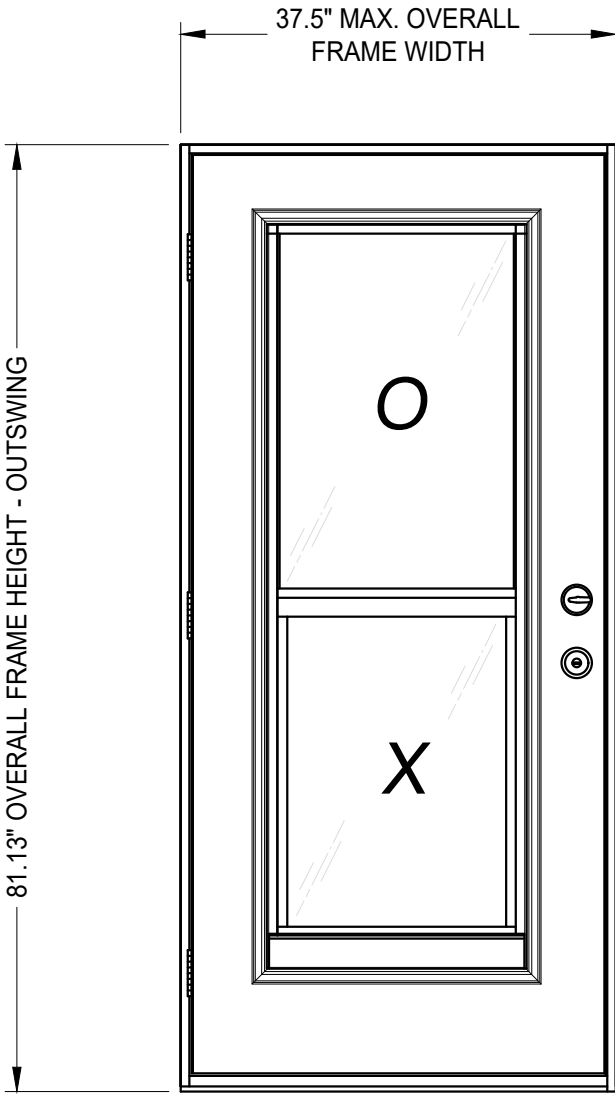
Product anchors shall be as listed and spaced as shown on details. Anchor embedment to base material shall be beyond wall dressing or stucco.
3.

When used in areas requiring wind borne debris protection, this product 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.

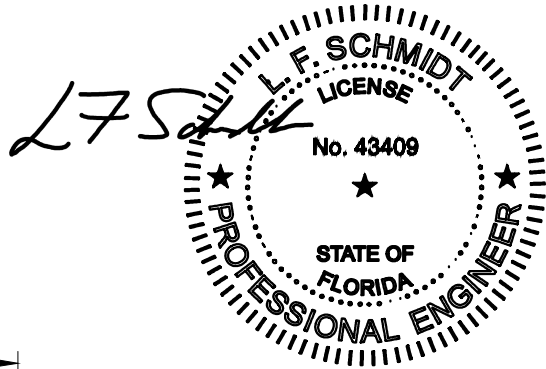
Site conditions that deviate from the details of this drawing require further engineering analysis by a licensed engineer or registered architect.

| TABLE OF CONTENTS |                                                      |
|-------------------|------------------------------------------------------|
| SHEET#            | DESCRIPTION                                          |
| 1                 | Typical elevation, design pressures, & general notes |
| 2                 | Door panel details                                   |
| 3                 | Lite frame details and glazing details               |
| 4                 | Horizontal cross sections                            |
| 5                 | Vertical cross sections                              |
| 6                 | Buck and frame anchoring                             |
| 7                 | Bill of materials and components                     |



| MAX. FRAME<br>DIMENSION | MAX.<br>D.L.O.<br>DIMENSION | DESIGN PRESSURE (PSF) |          |
|-------------------------|-----------------------------|-----------------------|----------|
|                         |                             | POSITIVE              | NEGATIVE |
| 37.5" x 81.13"          | 20" x 29.13"                | +60.0                 | -65.0    |

NOTE: See Sheet 2 for Hardware Design Pressure Limitations



Digitally signed by Lyndon F Schmidt  
Date: 2023.08.09 12:35:41 -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

DLP  
WINDSERT

PART OR ASSEMBLY:

TYPICAL ELEVATION, DESIGN  
PRESSURES & GENERAL NOTES

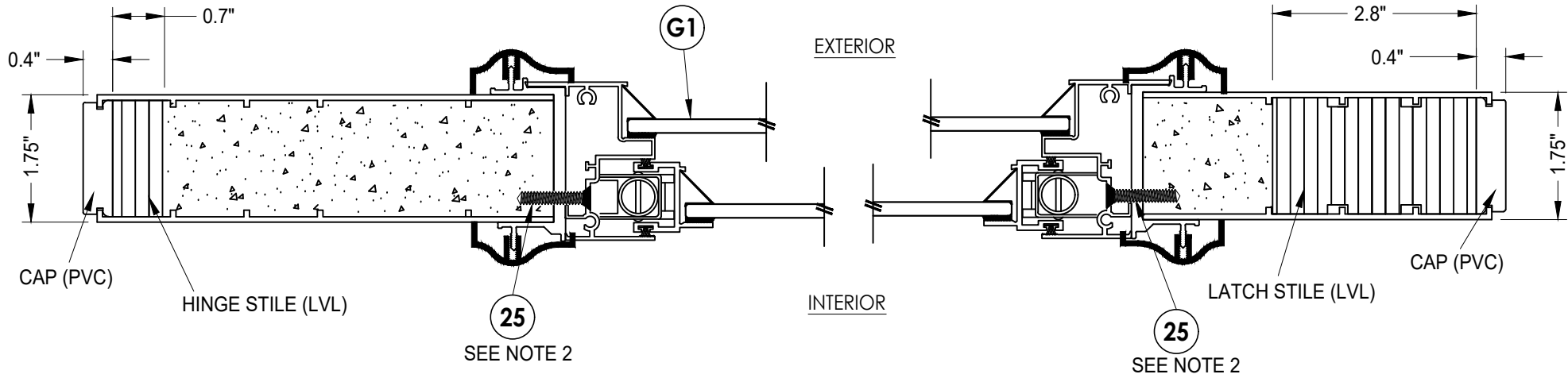
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|-----------|---------|-----------------------------|-----|-----|
| 6         | 8/09/23 | UPDATE TO 8TH ED. (2023)    | FBC | LFS |
| 5         | 8/31/20 | UPDATE TO 7TH ED. (2020)    | FBC | LFS |
| 4         | 8/16/17 | UPDATE TO 6TH ED. (2017)    | FBC | JK  |
| 3         | 9/14/15 | REVISED WINDSERT COMPONENTS |     | JK  |
| 2         | 3/28/15 | UPDATE TO 5TH ED. (2014)    | FBC | JK  |
| 1         | 9/28/11 | UPDATED TO 2010 FBC         |     | LFS |
| NO.       | DATE    |                             |     | BY  |
| REVISIONS |         |                             |     |     |

DATE: 8/29/11  
SCALE: N.T.S.  
DWG. BY: JK  
CHK. BY: LFS  
DRAWING NO.: FL-14803.1  
SHEET 1 OF 7

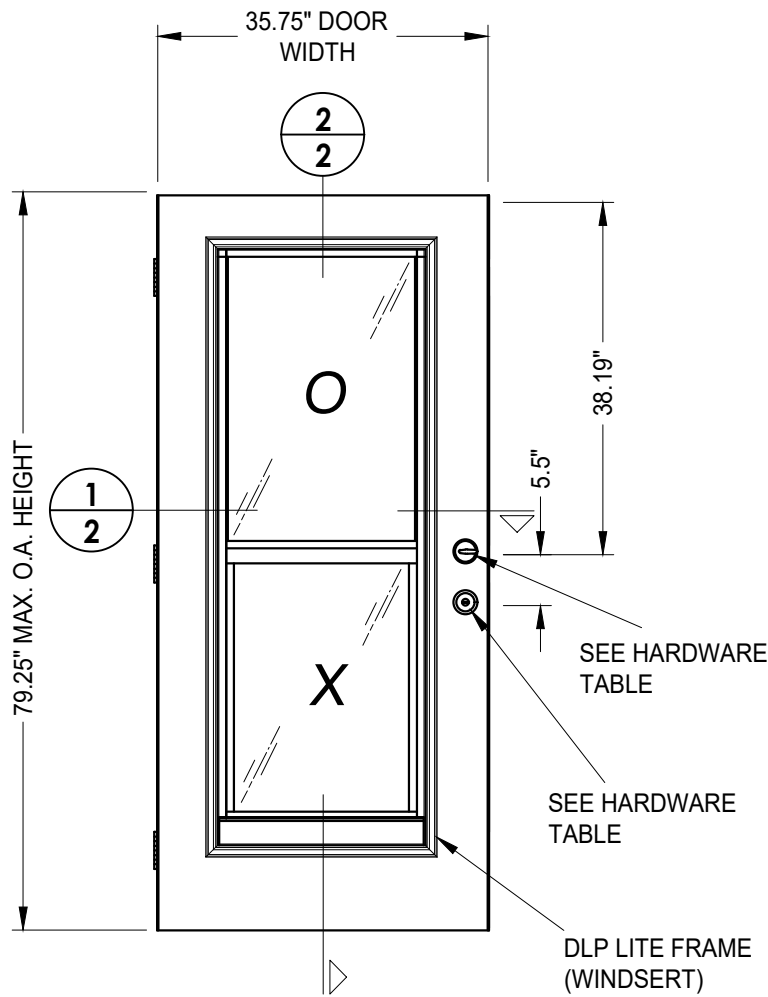
RW BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

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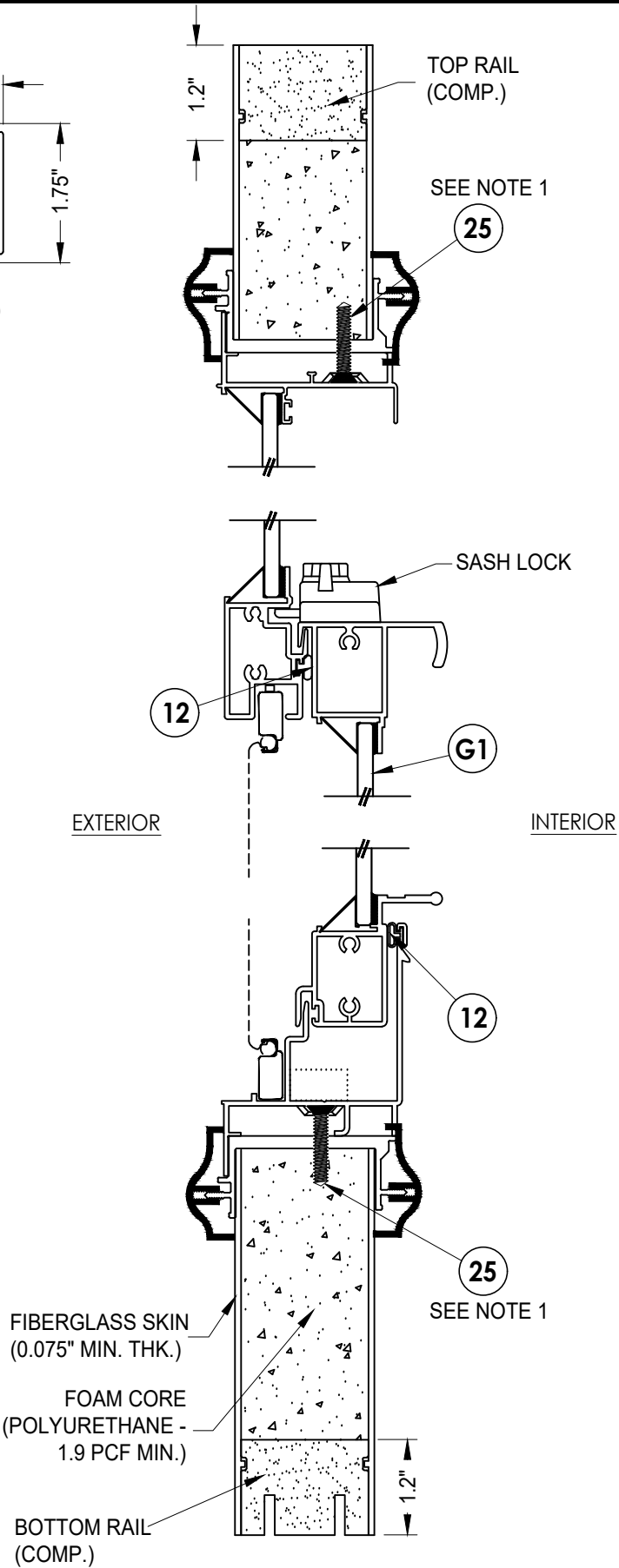
1  
2 HORIZONTAL CROSS SECTION



40 DOOR PANEL  
Plastpro

| HARDWARE TABLE |           |                             |                      |
|----------------|-----------|-----------------------------|----------------------|
| MANUFACTURER   | MODEL     |                             | MAX. DESIGN PRESSURE |
| KWIKSET        | Knob:     | KWIKSET SERIES              | +50/-55 PSF          |
|                | Deadbolt: | KWIKSET SERIES (660)        |                      |
| YALE           | Lever:    | YH COLLECTION               | +50/-55 PSF          |
|                | Deadbolt: | NEW TRADITIONS (800 SERIES) |                      |
| SCHLAGE        | Knob:     | F-SERIES                    | +50/-55 PSF          |
|                | Deadbolt: | B60 / 62                    |                      |
| YALE           | Knob:     | YH COLLECTION               | +60/-65 PSF          |
|                | Deadbolt: | YH 83                       |                      |

- NOTES:
- SMS Screw spacing at head and sill:  
5" from each end & one at centerline (3 total).
  - SMS Screw spacing at jambs:  
5" from each end & spaced @ 8 - 11" o.c. (7 total).



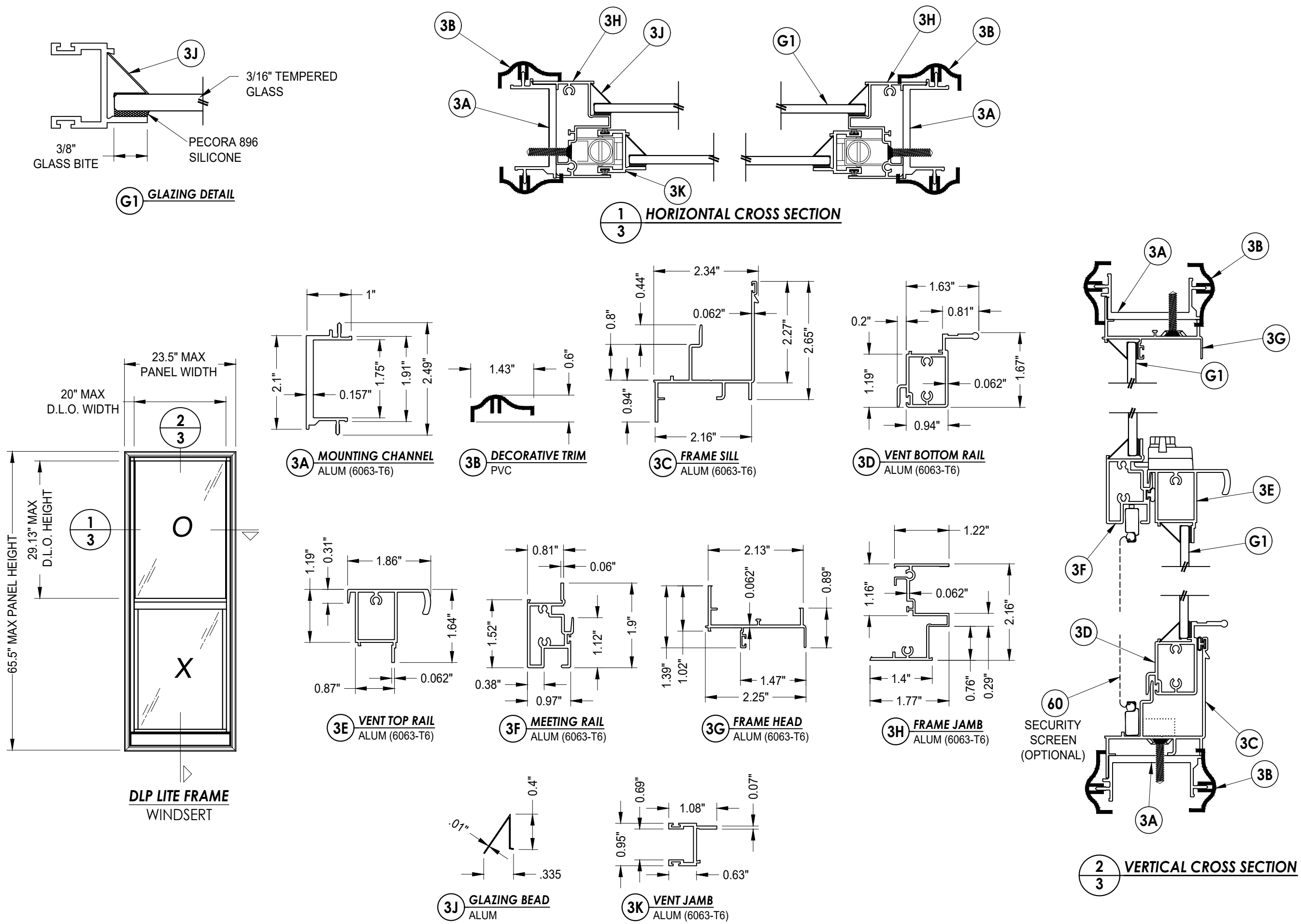
2  
2 VERTICAL CROSS SECTION

Documents Prepared By:  
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P.E. No. 43409

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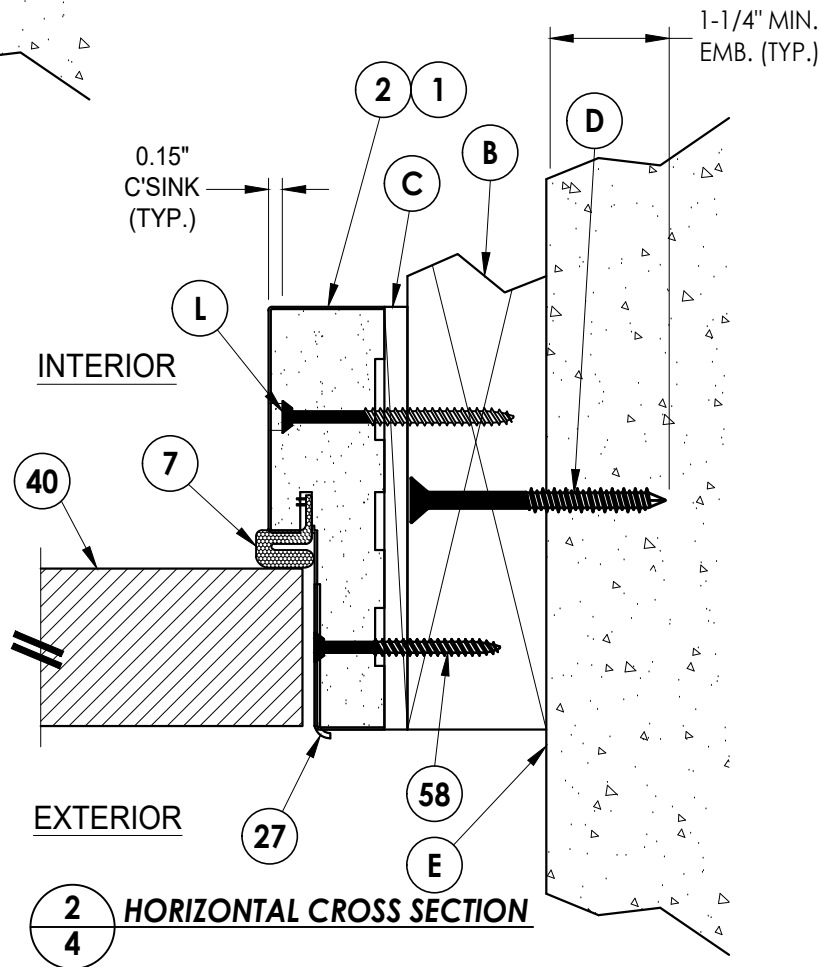
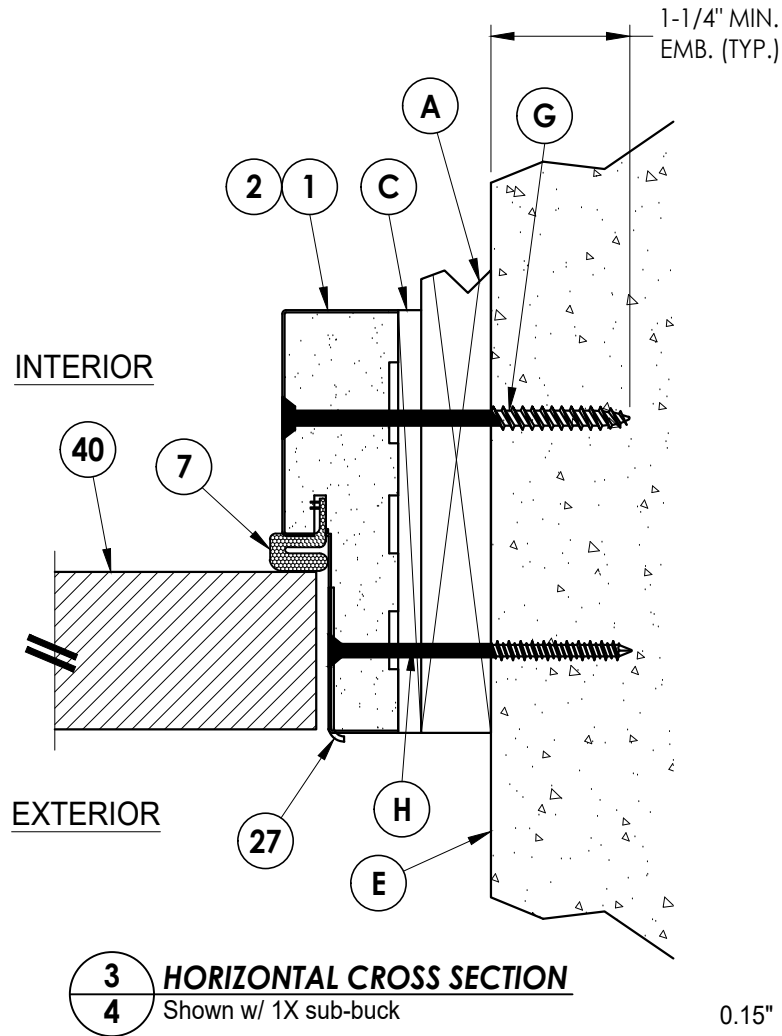
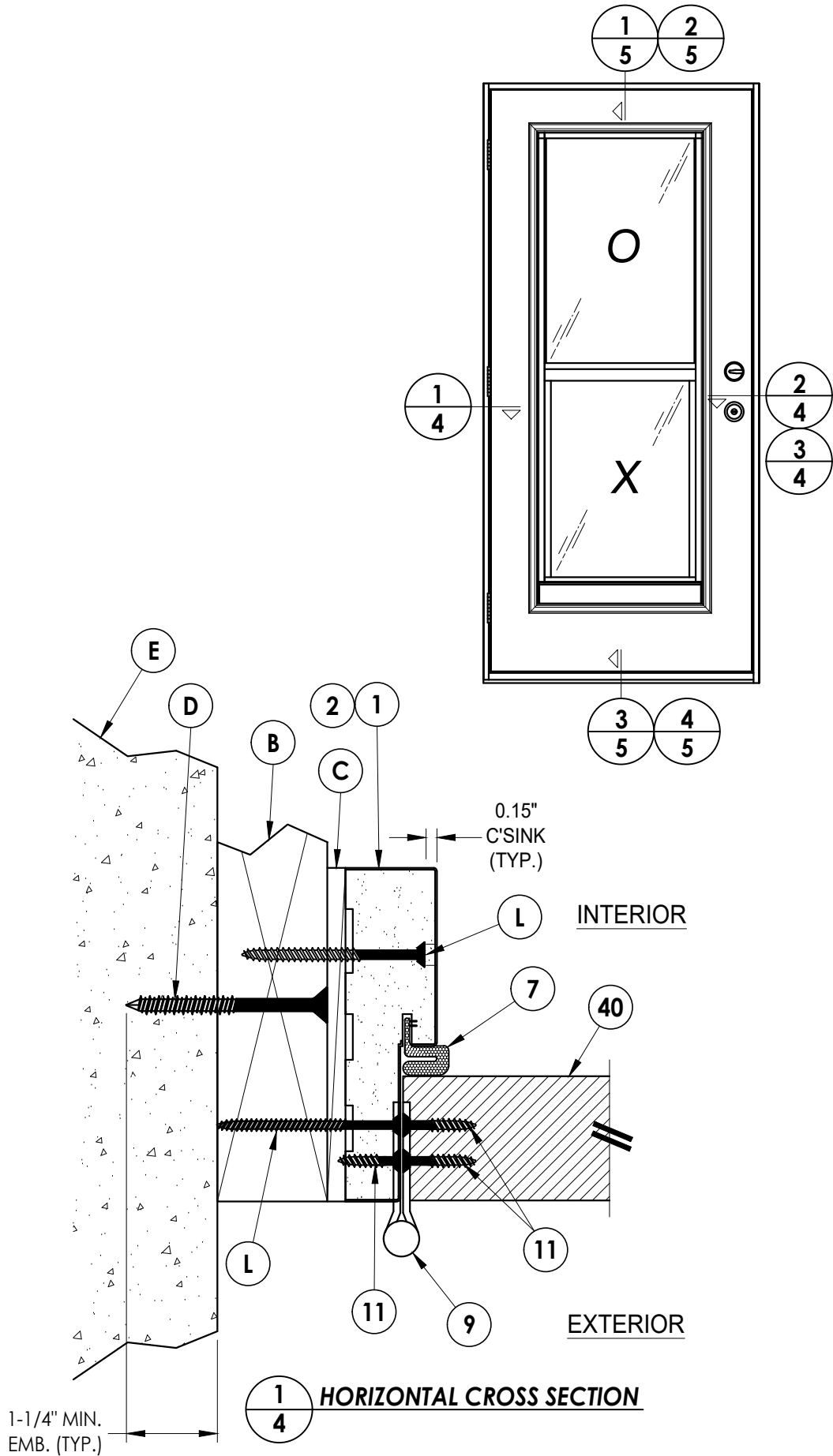
| PRODUCT: |                             | DLP WINDSERT            |    | PART OR ASSEMBLY: |    | DOOR PANEL DETAILS |    |
|----------|-----------------------------|-------------------------|----|-------------------|----|--------------------|----|
| LFS      | UPDATE TO 8TH ED. (2023)    | FBC                     | JK | JK                | JK | LFS                | BY |
| LFS      | UPDATE TO 7TH ED. (2020)    | FBC                     | JK | JK                | JK | LFS                | BY |
| JK       | UPDATE TO 6TH ED. (2017)    | FBC                     | JK | JK                | JK | LFS                | BY |
| JK       | REVISED WINDSERT COMPONENTS |                         | JK | JK                | JK | LFS                | BY |
| JK       | UPDATE TO 5TH ED. (2014)    | FBC                     | JK | JK                | JK | LFS                | BY |
| JK       | UPDATE TO 2010 FBC          |                         | JK | JK                | JK | LFS                | BY |
| NO.      | DATE                        | REVISIONS               |    |                   |    |                    |    |
| 6        | 8/09/23                     | DATE: 8/29/11           |    |                   |    |                    |    |
| 5        | 8/31/20                     | SCALE: N.T.S.           |    |                   |    |                    |    |
| 4        | 8/16/17                     | DWG. BY: JK             |    |                   |    |                    |    |
| 3        | 9/14/15                     | CHK. BY: LFS            |    |                   |    |                    |    |
| 2        | 3/18/15                     | DRAWING NO.: FL-14803.1 |    |                   |    |                    |    |
| 1        | 9/28/11                     | SHEET 2 OF 7            |    |                   |    |                    |    |

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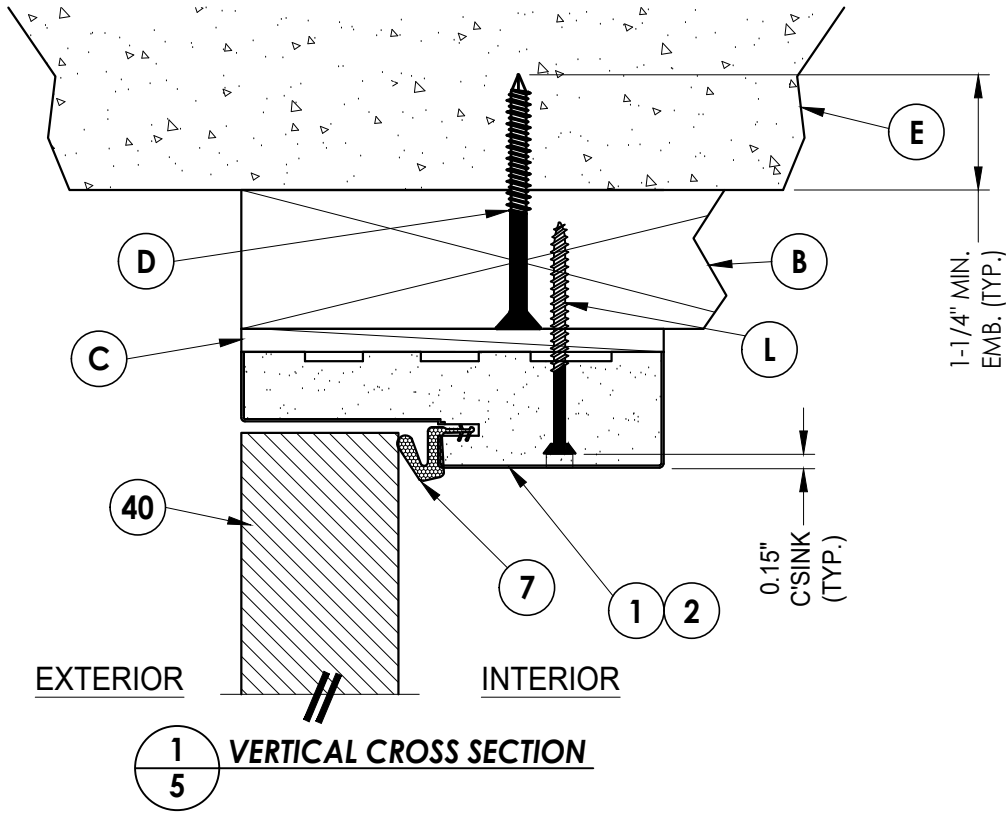
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|---------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------|-----|
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. 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><br>DLP<br>WINDSERT                               |         | PART OR ASSEMBLY:<br><br>LITE FRAME DETAILS<br>AND GLAZING DETAILS                                                 |     |
| 6                                                             | 8/09/23 | UPDATE TO 8TH ED. (2023) FBC                                                                                       | LFS |
| 5                                                             | 8/31/20 | UPDATE TO 7TH ED. (2020) FBC                                                                                       | LFS |
| 4                                                             | 8/16/17 | UPDATE TO 6TH ED. (2017) FBC                                                                                       | JK  |
| 3                                                             | 9/14/15 | REVISED WINDSERT COMPONENTS                                                                                        | JK  |
| 2                                                             | 3/18/15 | UPDATE TO 5TH ED. (2014) FBC                                                                                       | JK  |
| 1                                                             | 9/28/11 | UPDATED TO 2010 FBC                                                                                                | LFS |
| NO.                                                           | DATE    | REVISIONS                                                                                                          |     |
| DATE: 8/29/11                                                 |         |                                                                                                                    |     |
| SCALE: N.T.S.                                                 |         |                                                                                                                    |     |
| DWG. BY: JK                                                   |         |                                                                                                                    |     |
| CHK. BY: LFS                                                  |         |                                                                                                                    |     |
| DRAWING NO.:<br>FL-14803.1                                    |         |                                                                                                                    |     |
| SHEET 3 OF 7                                                  |         |                                                                                                                    |     |

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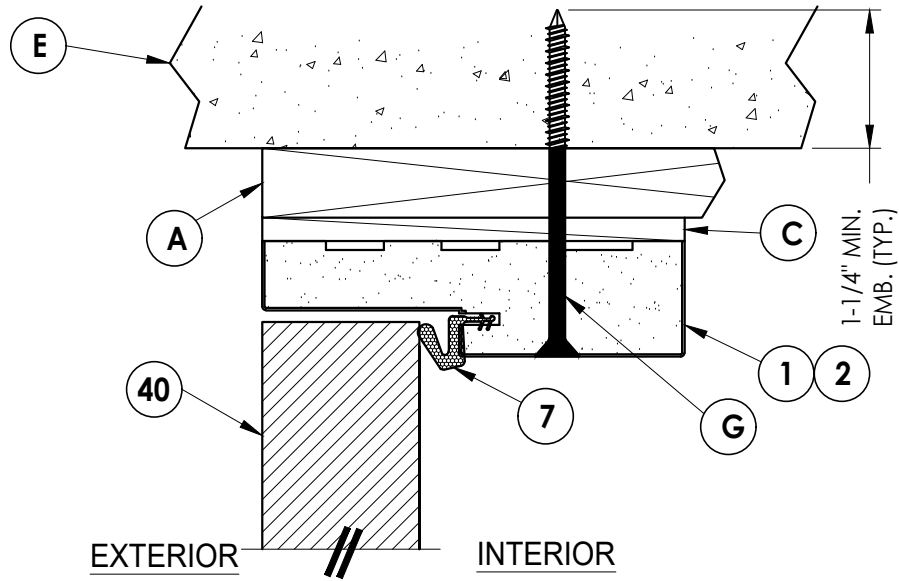
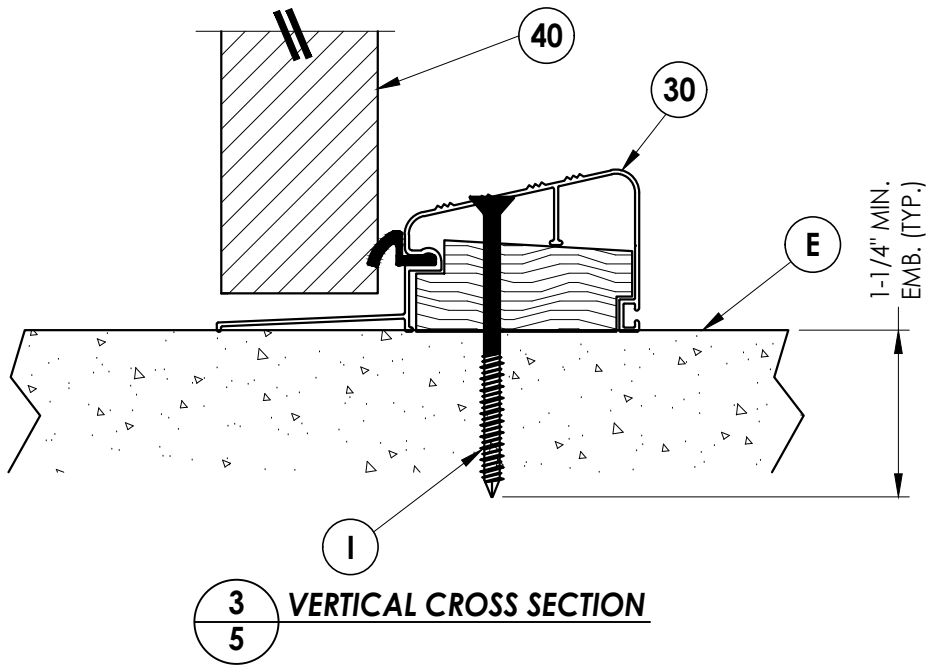


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| DLP<br>WINDSERT                                               |         | PART OR ASSEMBLY:<br>HORIZONTAL CROSS SECTIONS                                                                     |     |
| 6                                                             | 8/09/23 | UPDATE TO 8TH ED. (2023) FBC                                                                                       | LFS |
| 5                                                             | 8/31/20 | UPDATE TO 7TH ED. (2020) FBC                                                                                       | LFS |
| 4                                                             | 8/16/17 | UPDATE TO 6TH ED. (2017) FBC                                                                                       | JK  |
| 3                                                             | 9/14/15 | REVISED WINDSERT COMPONENTS                                                                                        | JK  |
| 2                                                             | 3/28/15 | UPDATE TO 5TH ED. (2014) FBC                                                                                       | JK  |
| 1                                                             | 9/28/11 | UPDATED TO 2010 FBC                                                                                                | LFS |
| NO.                                                           | DATE    |                                                                                                                    | BY  |
| REVISIONS                                                     |         |                                                                                                                    |     |
| DATE: 8/29/11                                                 |         |                                                                                                                    |     |
| SCALE: N.T.S.                                                 |         |                                                                                                                    |     |
| DWG. BY: JK                                                   |         |                                                                                                                    |     |
| CHK. BY: LFS                                                  |         |                                                                                                                    |     |
| DRAWING NO.: FL-14803.1                                       |         |                                                                                                                    |     |
| SHEET 4 OF 7                                                  |         |                                                                                                                    |     |

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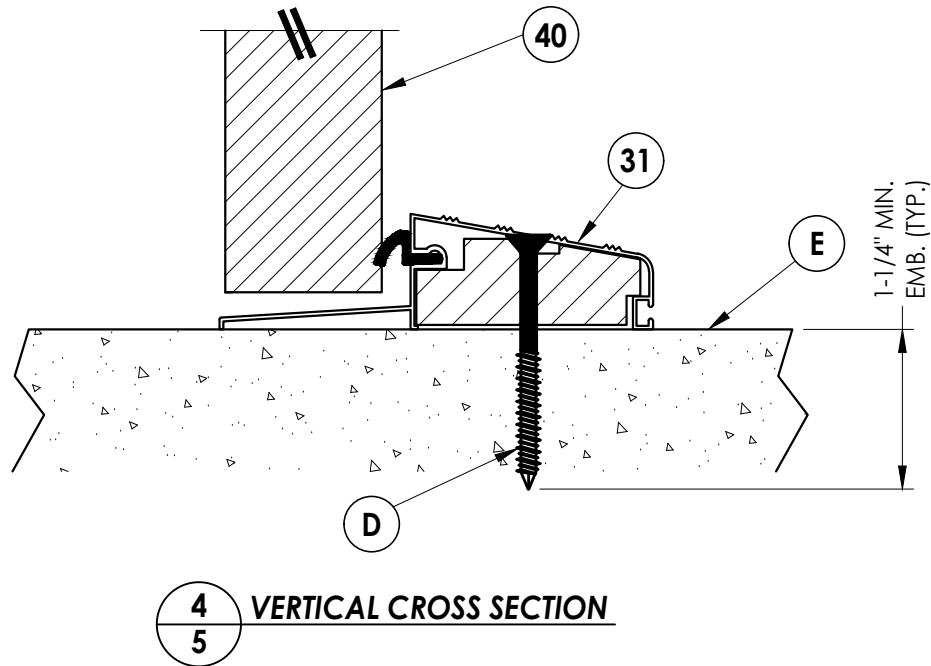


EXTERIOR INTERIOR



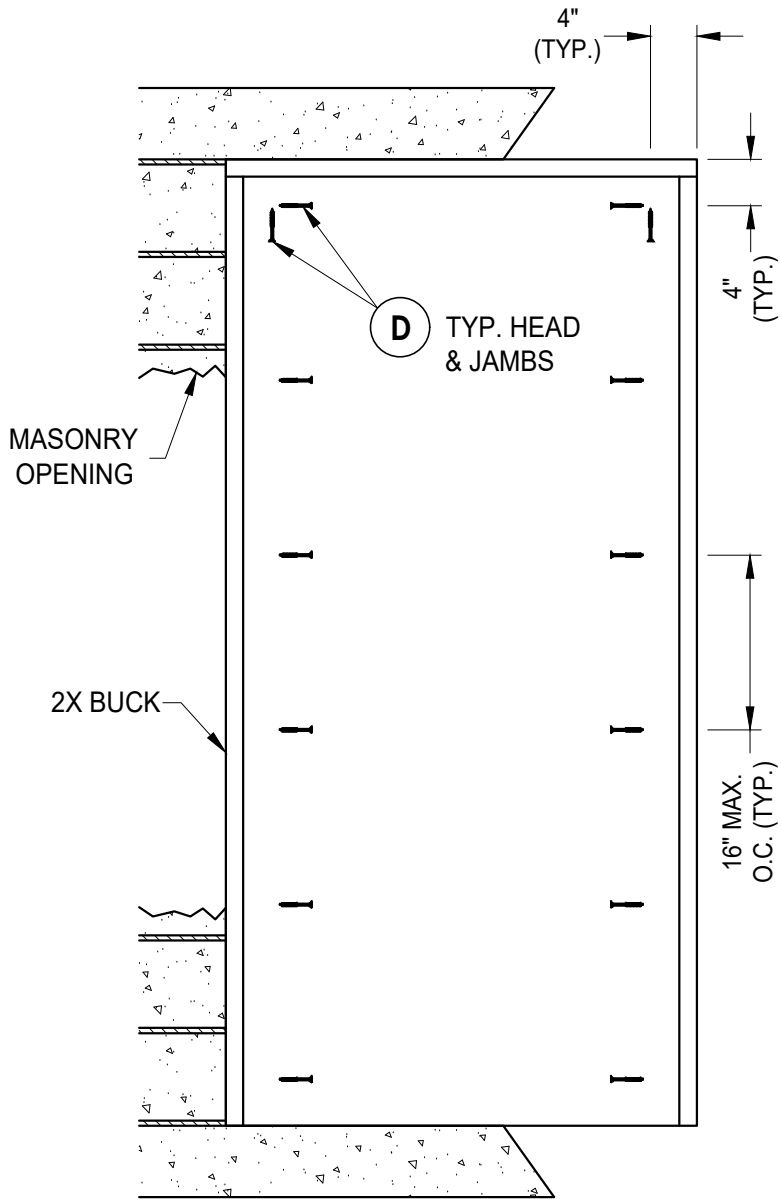
EXTERIOR INTERIOR

EXTERIOR INTERIOR

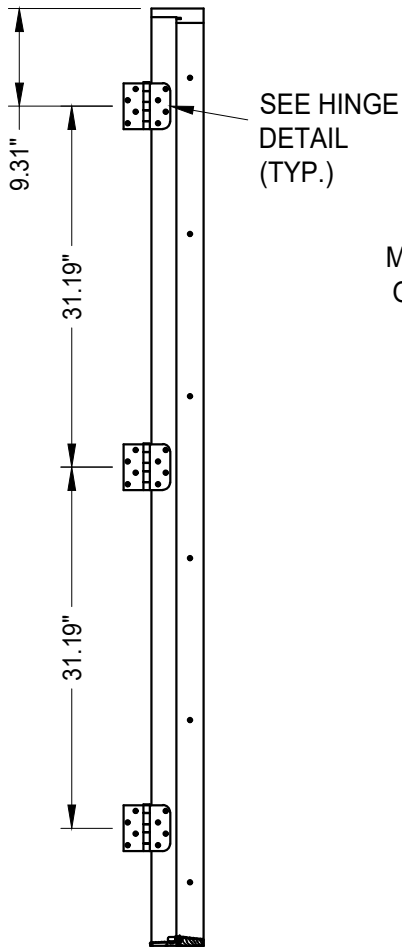


|                                                               |         |                                                                                                                    |     |
|---------------------------------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------|-----|
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| PRODUCT:<br>DLP<br>WINDSERT                                   |         | PART OR ASSEMBLY:<br>VERTICAL CROSS SECTIONS                                                                       |     |
| 6                                                             | 8/09/23 | UPDATE TO 8TH ED. (2023) FBC                                                                                       | LFS |
| 5                                                             | 8/31/20 | UPDATE TO 7TH ED. (2020) FBC                                                                                       | LFS |
| 4                                                             | 8/16/17 | UPDATE TO 6TH ED. (2017) FBC                                                                                       | JK  |
| 3                                                             | 9/14/15 | REVISED WINDSERT COMPONENTS                                                                                        | JK  |
| 2                                                             | 3/28/15 | UPDATE TO 5TH ED. (2014) FBC                                                                                       | JK  |
| 1                                                             | 9/28/11 | UPDATED TO 2010 FBC                                                                                                | LFS |
| NO.                                                           | DATE    |                                                                                                                    | BY  |
| REVISIONS                                                     |         |                                                                                                                    |     |
| DATE: 8/29/11                                                 |         |                                                                                                                    |     |
| SCALE: N.T.S.                                                 |         |                                                                                                                    |     |
| DWG. BY: JK                                                   |         |                                                                                                                    |     |
| CHK. BY: LFS                                                  |         |                                                                                                                    |     |
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| SHEET 5 OF 7                                                  |         |                                                                                                                    |     |

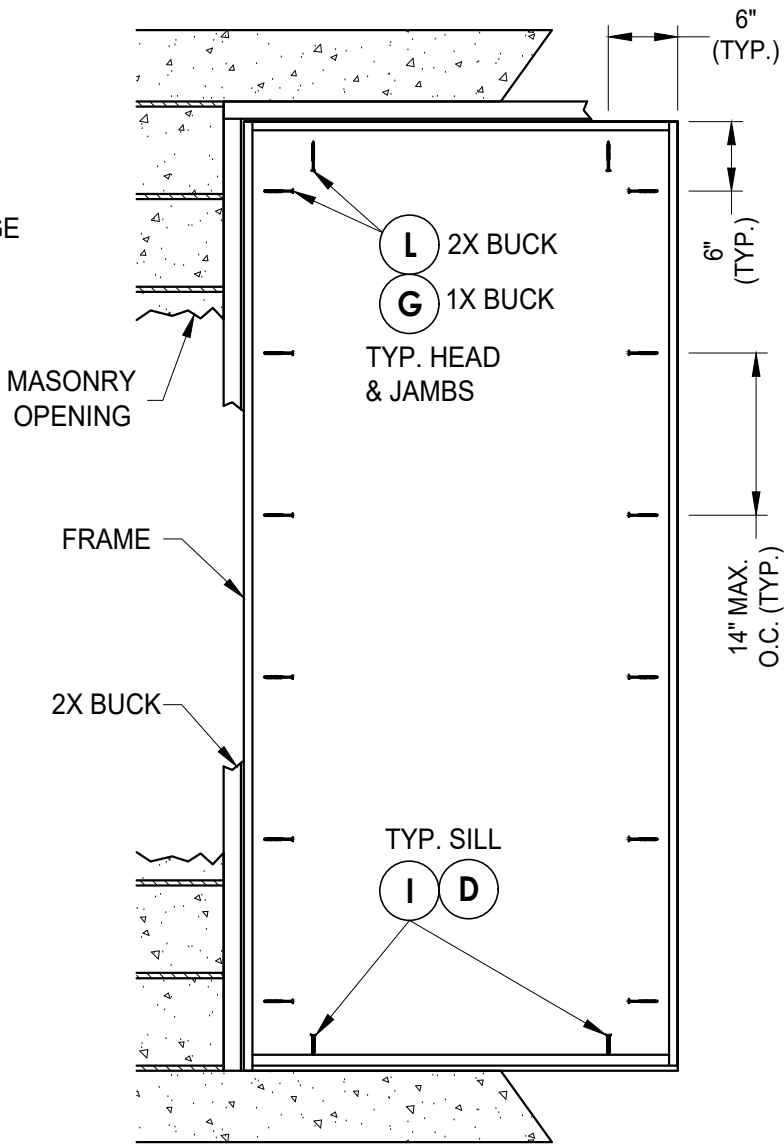
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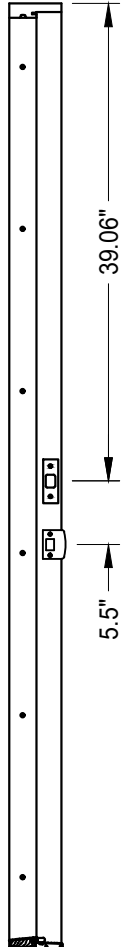
BUCK ANCHORING



STRIKE JAMB



FRAME ANCHORING  
Masonry construction

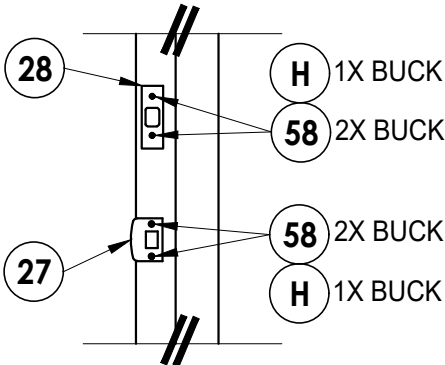


HINGE JAMB

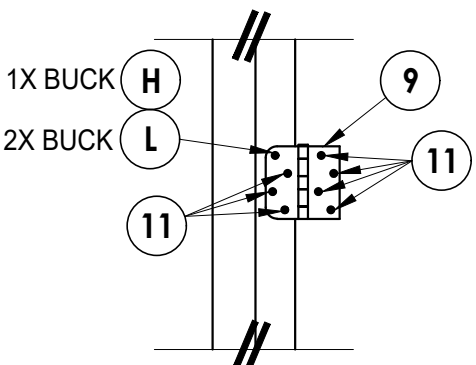
- CONCRETE ANCHOR NOTES:**
- Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
  - Concrete anchor locations noted as "MAX. ON CENTER" must be adjusted to maintain the min. edge distance to mortar joints, additional concrete anchors may be required 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"                                |
| 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.



LATCH & DEADBOLT DETAIL



HINGE DETAIL  
Outswing

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

**R<sup>W</sup>** BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT:

DLP  
WINDSERT

PART OR ASSEMBLY:  
BUCK AND FRAME ANCHORING

| LFS | FBC     | UPDATE TO 8TH ED. (2023)    | REVISIONS |
|-----|---------|-----------------------------|-----------|
| 6   | 8/09/23 | UPDATE TO 8TH ED. (2023)    |           |
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DATE: 8/29/11

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

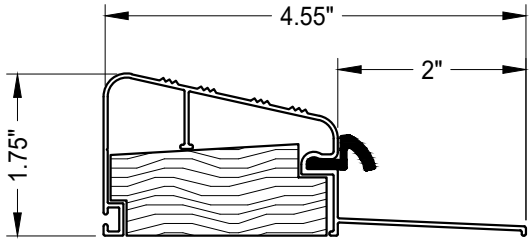
DRAWING NO.:

FL-14803.1

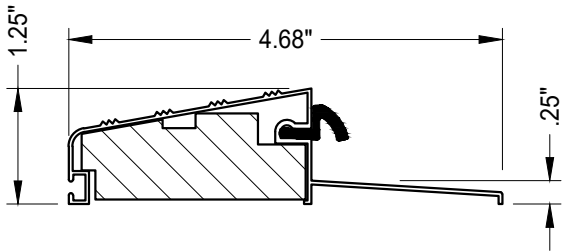
SHEET 6 OF 7

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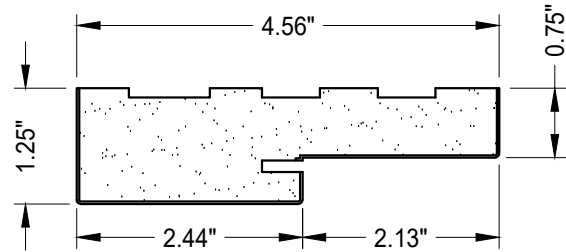
| BILL OF MATERIALS |                                                                                                |               |
|-------------------|------------------------------------------------------------------------------------------------|---------------|
| ITEM #            | DESCRIPTION                                                                                    | MATERIAL      |
| A                 | 1X BUCK SG >= 0.55                                                                             | WOOD          |
| B                 | 2X BUCK SG >= 0.55                                                                             | WOOD          |
| C                 | 1/4" MAX. SHIM SPACE                                                                           | -             |
| D                 | 1/4" X 2-3/4" DeWALT OR ITW CONCRETE SCREW                                                     | STEEL         |
| E                 | MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 | CONCRETE      |
| G                 | 1/4" X 3-3/4" PFH DeWALT OR ITW CONCRETE SCREW                                                 | STEEL         |
| H                 | 3/16" x 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW                                                | STEEL         |
| I                 | 1/4" X 3-1/4" PFH DeWALT OR ITW CONCRETE SCREW                                                 | STEEL         |
| L                 | #8 X 2-1/2" PFH WOOD SCREW (1.15" MIN. EMB.)                                                   | STEEL         |
| 1                 | POLY FIBER JAMB                                                                                | COMP. / VINYL |
| 2                 | FINGER JOINTED PINE FRAME                                                                      | WOOD          |
| 7                 | WEATHERSTRIP                                                                                   | FOAM          |
| 9                 | 4" X 4" BUTT HINGE                                                                             | STEEL         |
| 11                | #9 X 3/4" PFH WOOD SCREW                                                                       | STEEL         |
| 12                | BULB VINYL WEATHERSTRIP                                                                        | VINYL         |
| 25                | #12 X 1" PFH SELF DRILLING SMS                                                                 | STEEL         |
| 27                | LATCH STRIKE PLATE                                                                             | STEEL         |
| 28                | DEADBOLT STRIKE PLATE                                                                          | STEEL         |
| 30                | OUTSWING THRESHOLD                                                                             | ALUM / WOOD   |
| 31                | OUTSWING THRESHOLD                                                                             | ALUM / WOOD   |
| 40                | DOOR PANEL - SEE DOOR PANEL DETAIL SHEET FOR CONSTRUCTION DETAILS                              | -             |
| 58                | #8 X 2" PFH WS                                                                                 | STEEL         |
| 60                | SECURITY SCREEN (ALUM 6063-T6) - OPTIONAL                                                      | ALUM / SS     |



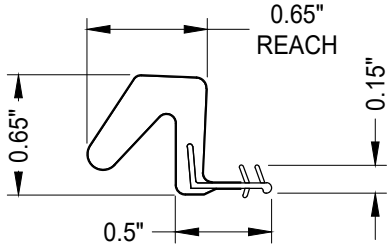
30 **OUTSWING THRESHOLD**  
DLP (QOSR)



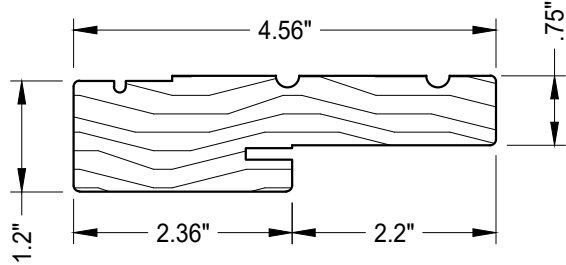
31 **OUTSWING THRESHOLD**  
DLP (QOSH)



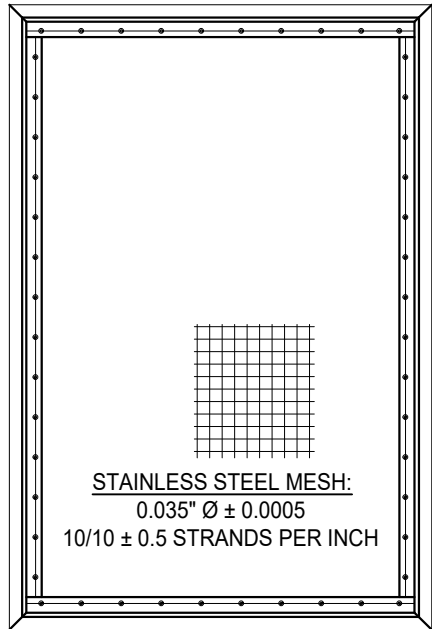
1 **POLY FIBER JAMB**  
Plastpro



7 **WEATHERSTRIP**  
Endura Force 5



2 **WOOD JAMB**



60 **SECURITY SCREEN**  
ALUM (6063-T6)

|                                                               |         |                                                                                                                                   |     |
|---------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------|-----|
| 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>DLP<br>WINDSERT                                   |         | PART OR ASSEMBLY:<br>BILL OF MATERIALS AND<br>COMPONENTS                                                                          |     |
| 6                                                             | 8/09/23 | UPDATE TO 8TH ED. (2023) FBC                                                                                                      | LFS |
| 5                                                             | 8/31/20 | UPDATE TO 7TH ED. (2020) FBC                                                                                                      | LFS |
| 4                                                             | 8/16/17 | UPDATE TO 6TH ED. (2017) FBC                                                                                                      | JK  |
| 3                                                             | 9/14/15 | REVISED WINDSERT COMPONENTS                                                                                                       | JK  |
| 2                                                             | 3/28/15 | UPDATE TO 5TH ED. (2014) FBC                                                                                                      | JK  |
| 1                                                             | 9/28/11 | UPDATED TO 2010 FBC                                                                                                               | LFS |
| NO.                                                           | DATE    |                                                                                                                                   | BY  |
| REVISIONS                                                     |         |                                                                                                                                   |     |
| DATE: 8/29/11                                                 |         |                                                                                                                                   |     |
| SCALE: N.T.S.                                                 |         |                                                                                                                                   |     |
| DWG. BY: JK                                                   |         |                                                                                                                                   |     |
| CHK. BY: LFS                                                  |         |                                                                                                                                   |     |
| DRAWING NO.: FL-14803.1                                       |         |                                                                                                                                   |     |
| SHEET 7 OF 7                                                  |         |                                                                                                                                   |     |