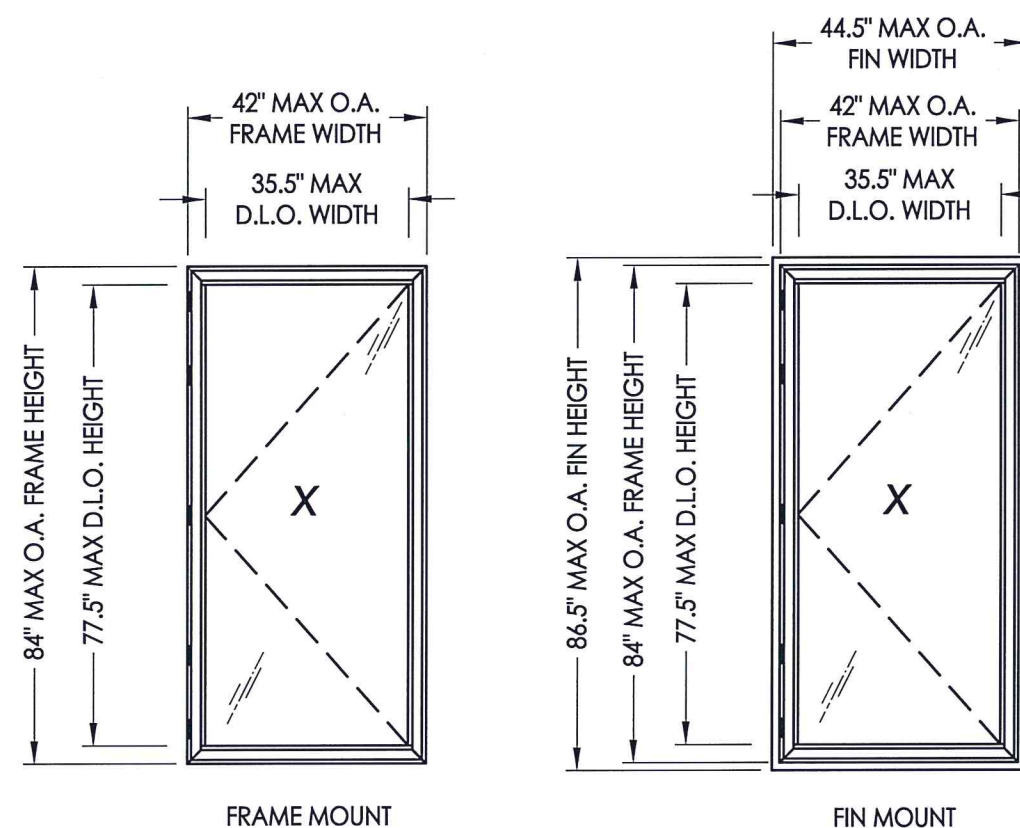


**Series 350-T**  
**Aluminum Casement Window**  
**w/ Thermal Break Frame**  
**(WET GLAZED)**  
**"IMPACT"**

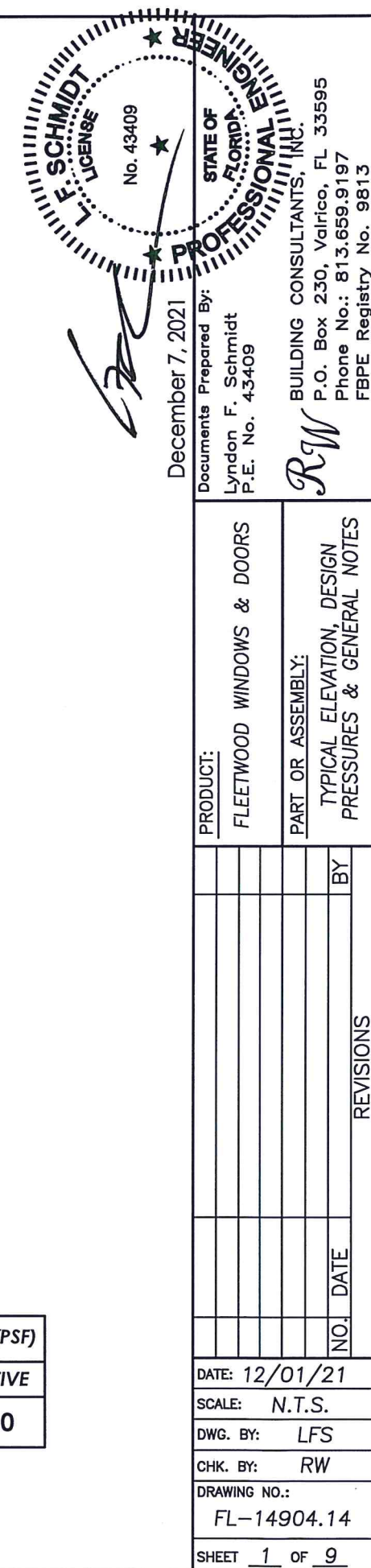
## GENERAL NOTES

1. This product has been evaluated and is in compliance with the 7th Edition (2020) 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 E1996 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 elevations, design pressures & general notes |
| 2                 | Elevations                                           |
| 3                 | Horizontal & vertical cross sections                 |
| 4                 | Horizontal & vertical cross sections                 |
| 5                 | Vertical cross section                               |
| 6                 | Buck & frame anchoring                               |
| 7                 | Hardware details                                     |
| 8                 | Glazing details                                      |
| 9                 | Bill of materials & components                       |



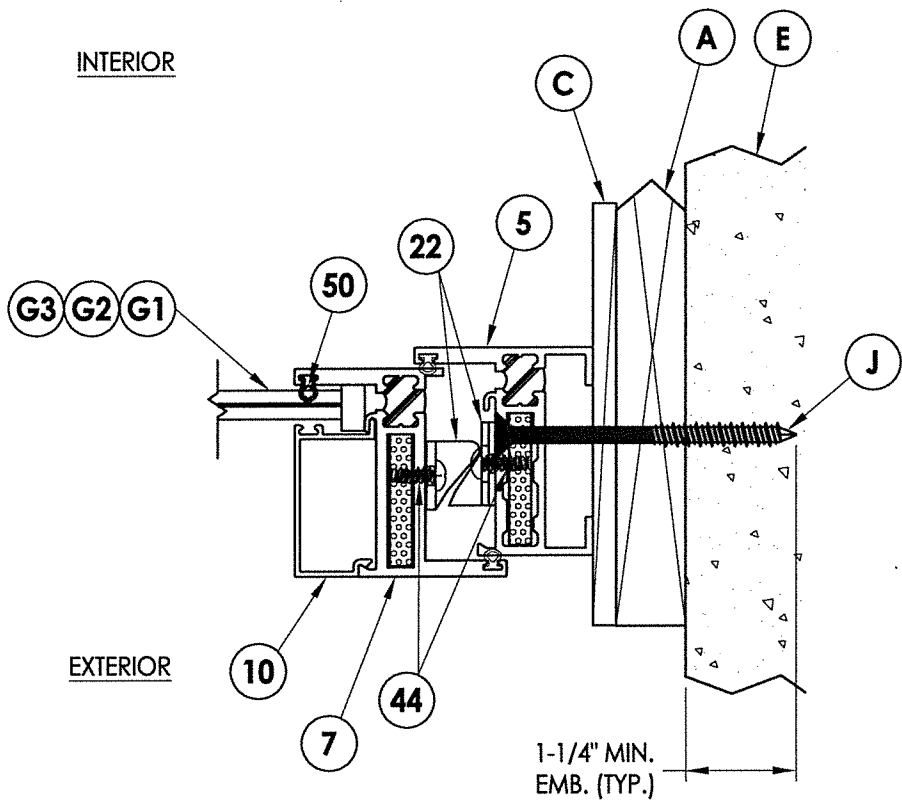
| OVERALL<br>FIN<br>DIMENSION | OVERALL<br>FRAME<br>DIMENSION | OVERALL<br>D.L.O.<br>DIMENSION | GLASS TYPE | DESIGN PRESSURE (PSF) |          |
|-----------------------------|-------------------------------|--------------------------------|------------|-----------------------|----------|
|                             |                               |                                |            | POSITIVE              | NEGATIVE |
| 44.5" X 86.5"               | 42.0" X 84.0"                 | 33.5" X 77.5"                  | G1, G2, G3 | +65.0                 | -65.0    |



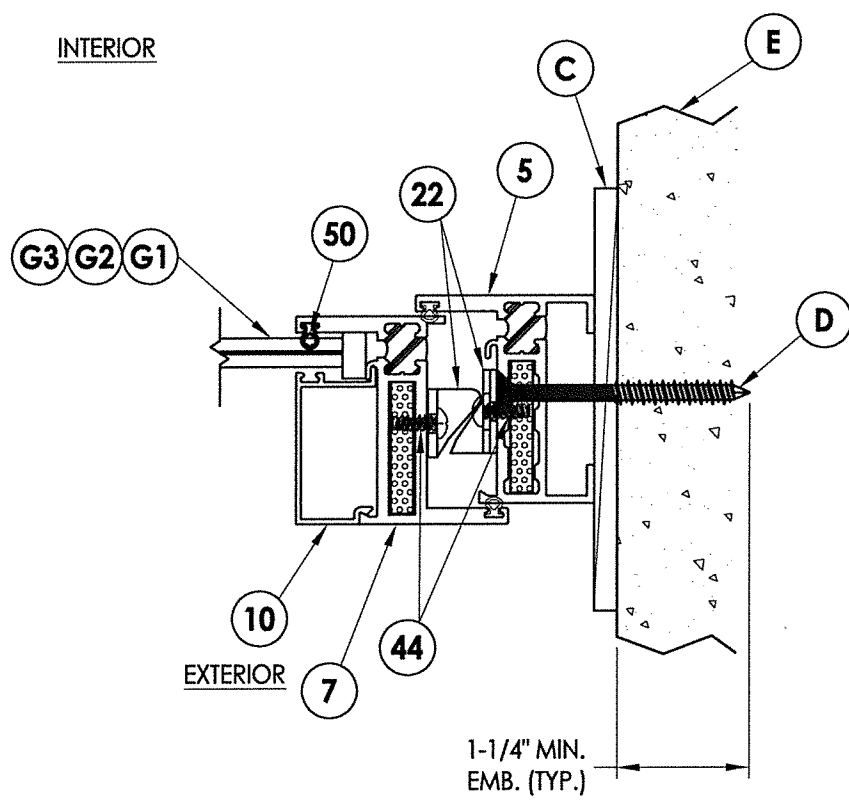
Technical drawing of a window frame. The drawing shows a rectangular frame with a central pane. A large 'X' is drawn across the pane. Callouts are as follows: 1/4 (left side), 2/4 (right side), 3/4 (right side), 4/4 (right side), 5/4 (top side), and 1/5 (bottom side).

|                                                                                                                    |  |                                              |  |
|--------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------|--|
|                                  |  | December 7, 2021                             |  |
| Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409                                                      |  | STATE OF<br>FLORIDA<br>PROFESSIONAL ENGINEER |  |
| BUILDING CONSULTANTS, INC.<br>P.O. Box 230, Valrico, FL 33595<br>Phone No.: 813.659.9197<br>FBPE Registry No. 9813 |  | <i>RW</i>                                    |  |
| PRODUCT:<br>FLEETWOOD WINDOWS & DOORS                                                                              |  | PART OR ASSEMBLY:<br>ELEVATIONS              |  |
| NO. DATE                                                                                                           |  | BY                                           |  |
| REVISIONS                                                                                                          |  | REVISIONS                                    |  |
| DATE: 12/01/21                                                                                                     |  | SCALE: N.T.S.                                |  |
| DWG. BY: LFS                                                                                                       |  | CHK. BY: RW                                  |  |
| DRAWING NO.:<br>FL-14904.14                                                                                        |  | SHEET 2 OF 9                                 |  |

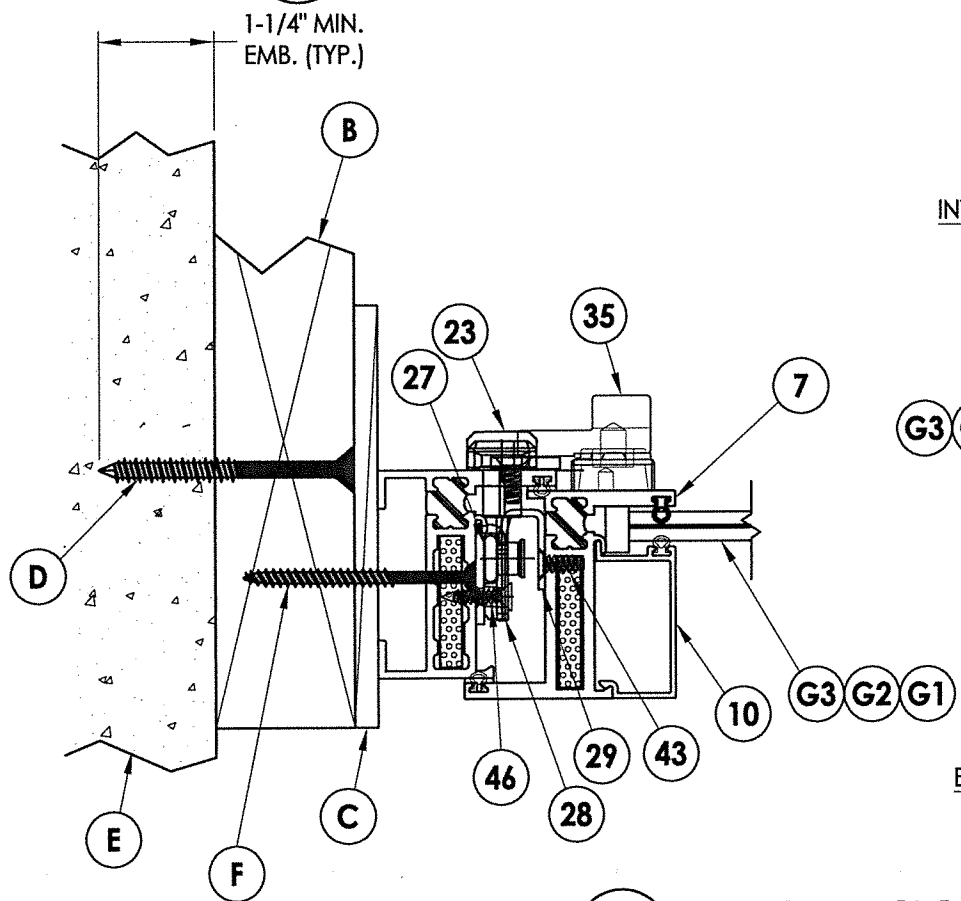
© 2021 R.W. BUILDING CONSULTANTS INC.



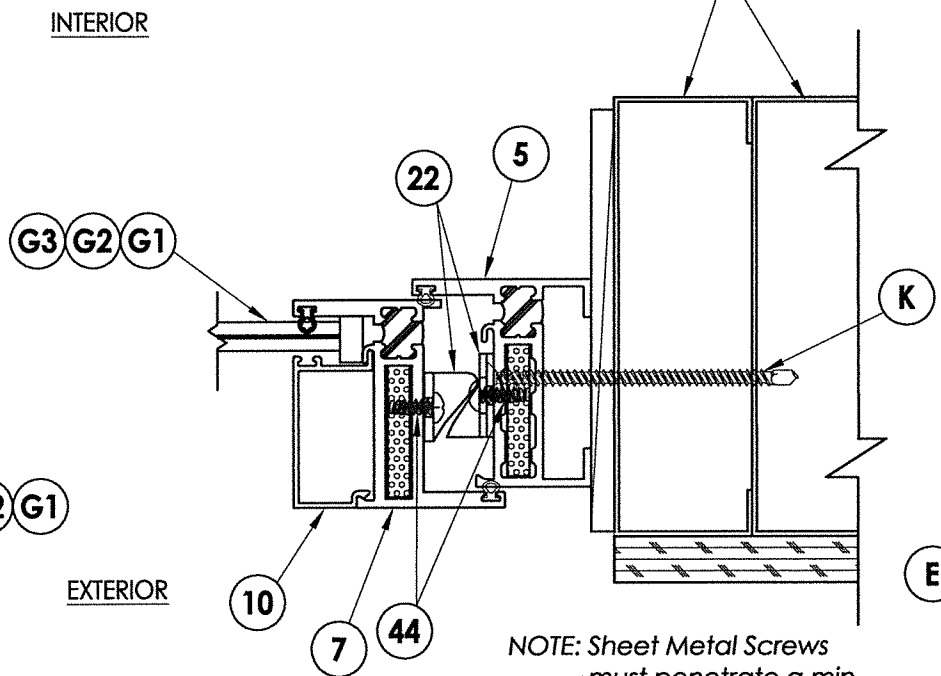
**2 HORIZONTAL CROSS SECTION**  
**3** Shown w/ 1X Sub buck option



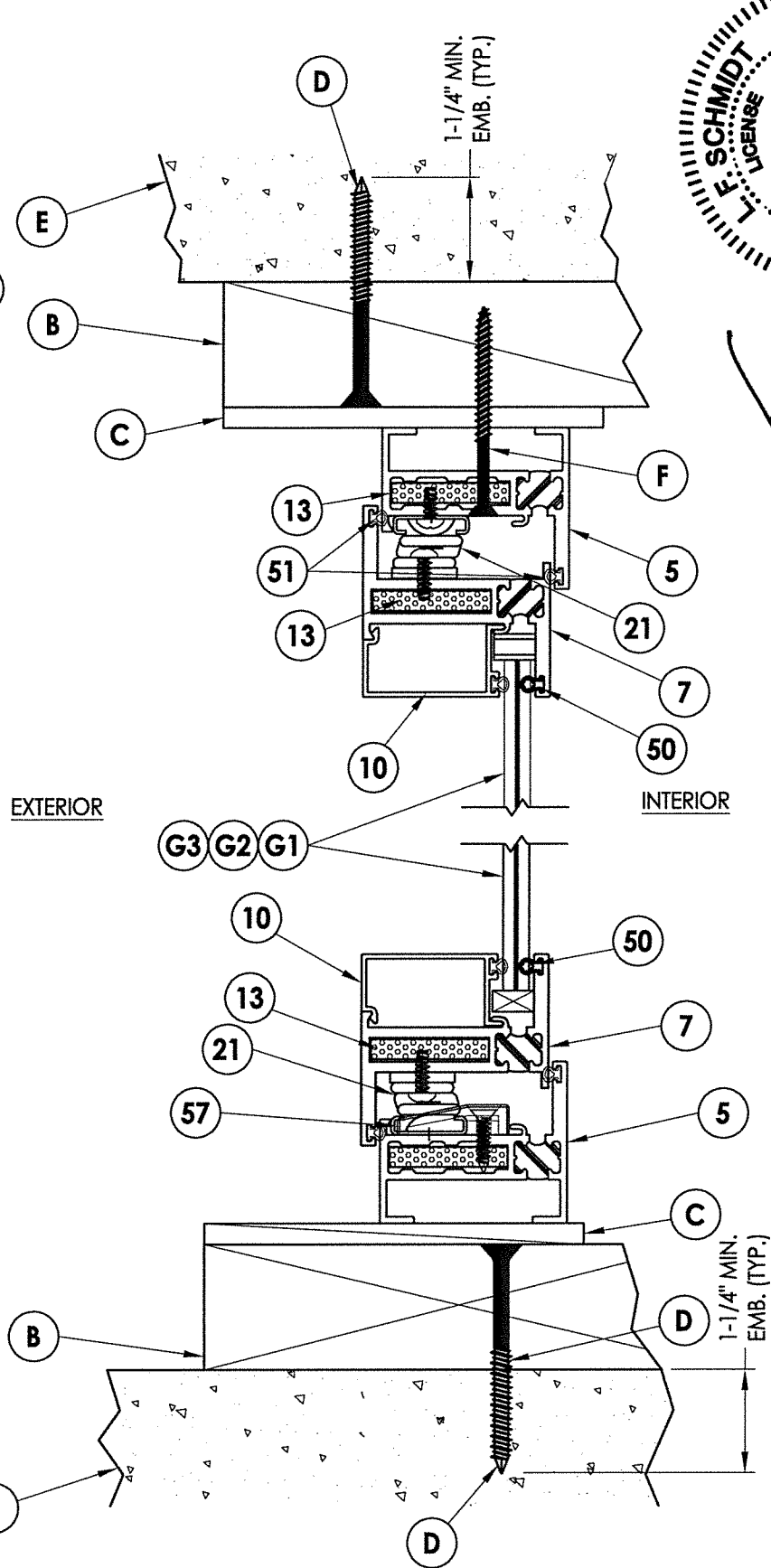
**3 HORIZONTAL CROSS SECTION**  
3 Shown w/ Direct to Masonry option



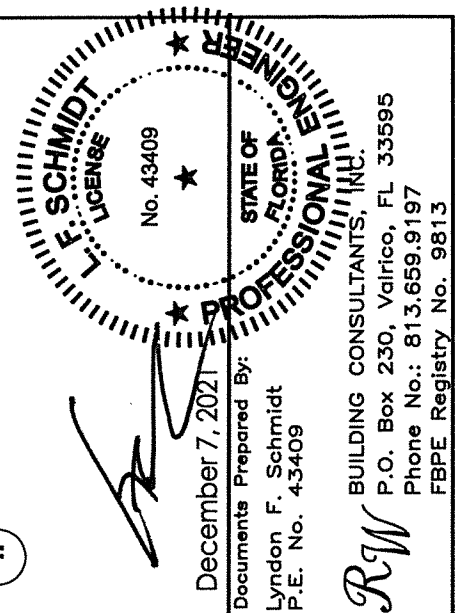
**1** **HORIZONTAL CROSS SECTION**  
**3** Show w/ 2X Buck and Steel Stud options



**NOTE:** Sheet Metal Screws must penetrate a min. of 3 threads through at least two (2) sheets of metal.



**4 VERTICAL CROSS SECTION**  
**3** Shown w/ 2X Buck Construction



December 7, 2021  
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

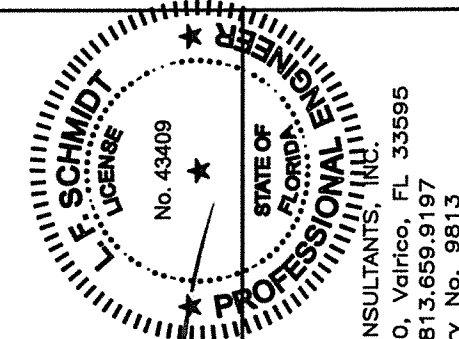
**RW**  
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

[illegible]

**4 HORIZONTAL CROSS SECTION**  
4 Shown w/ Direct to Masonry option

**2 HORIZONTAL CROSS SECTION**  
**4** Shown w/ 1X Sub buck option

**5 VERTICAL CROSS SECTION**  
**4** Shown w/ 2X Buck Construction



December 7, 2021

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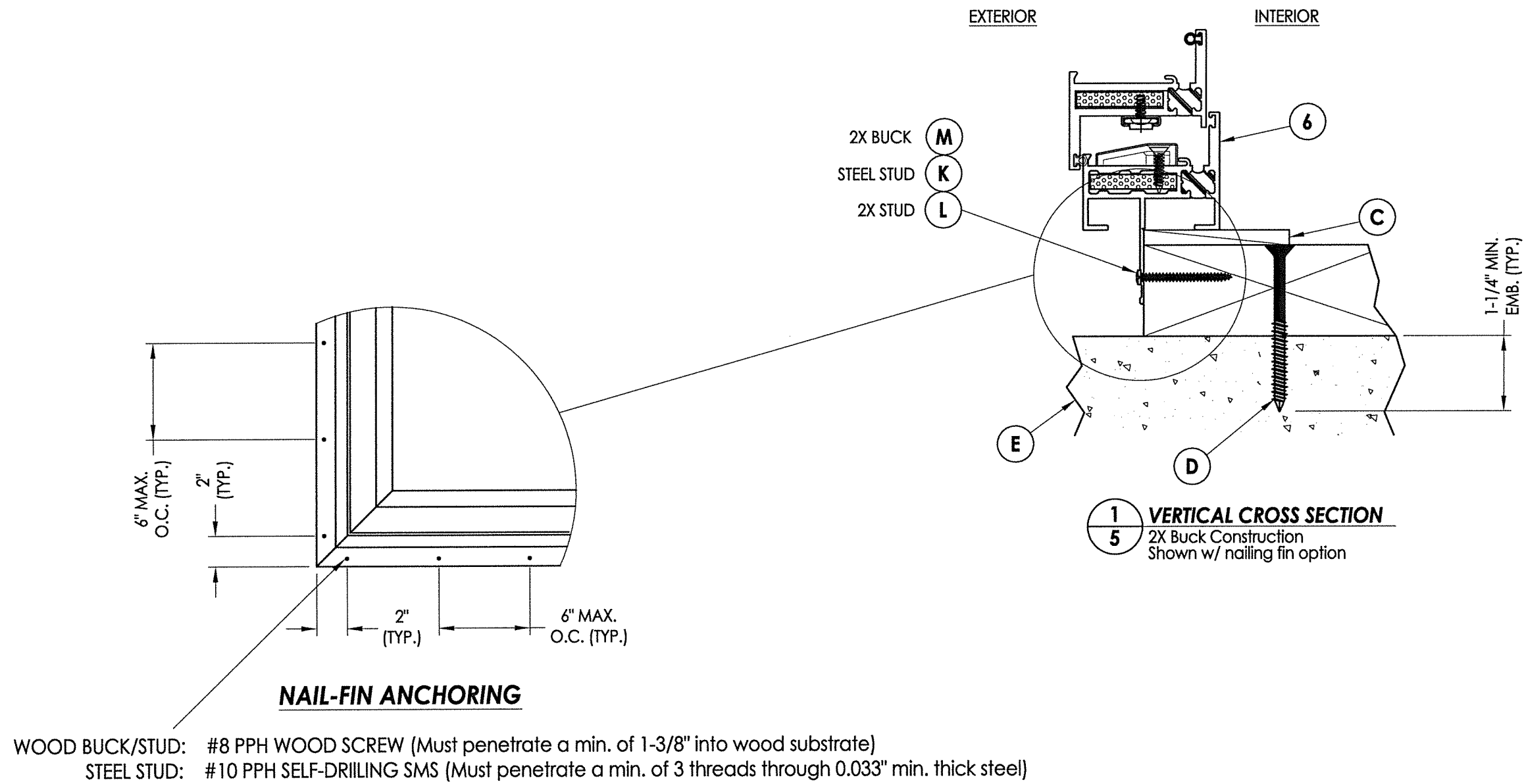
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

*RW* BUILDING CONSULTANTS  
P.O. Box 23  
Phone No.: 781-326-1111  
FBPE Registered Professional Engineer

|                                                             |                                                                                     |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <p><b>PRODUCT:</b></p> <p>FLEETWOOD WINDOWS &amp; DOORS</p> | <p><b>PART OR ASSEMBLY:</b></p> <p>HORIZONTAL &amp; VERTICAL<br/>CROSS SECTIONS</p> |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------|

[illegible]

|              |             |
|--------------|-------------|
| DATE:        | 12/01/21    |
| SCALE:       | N.T.S.      |
| DWG. BY:     | LFS         |
| CHK. BY:     | RW          |
| DRAWING NO.: | FL-14904.14 |
| SHEET        | 4 OF 9      |



*[Signature]*  
December 7, 2021  
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

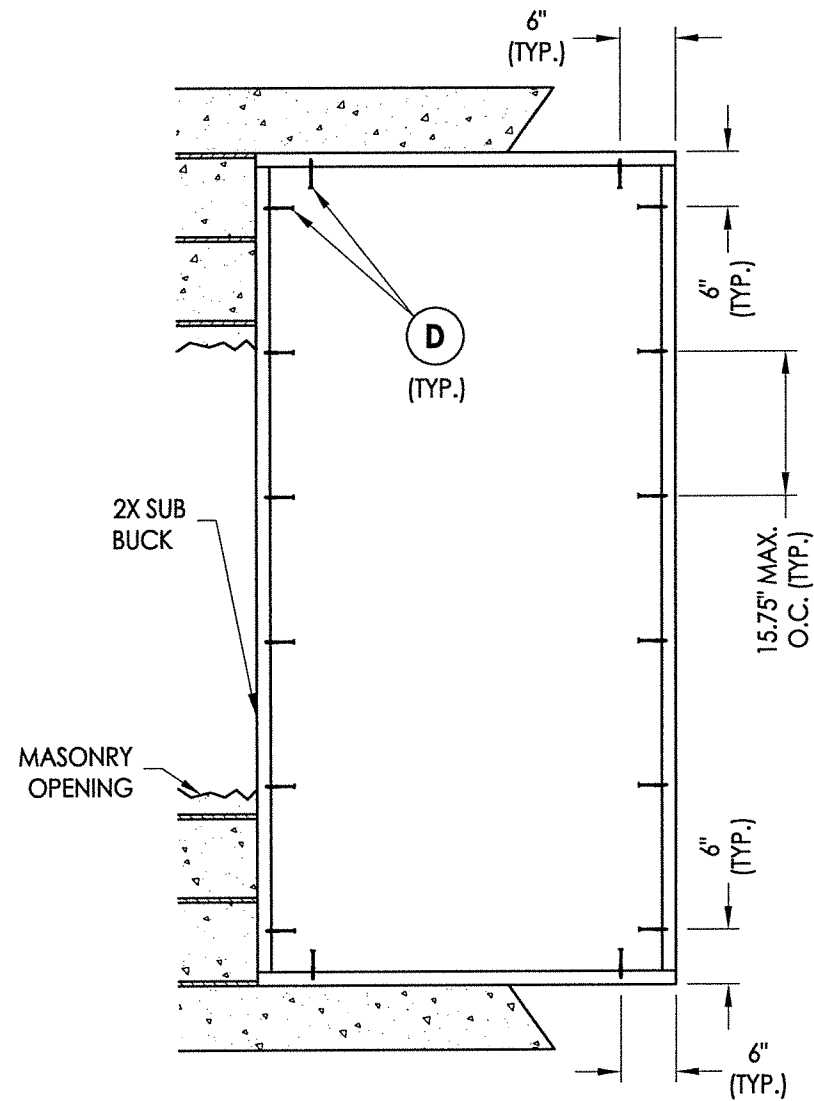
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
L. F. SCHMIDT  
LICENSE  
No. 43409

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

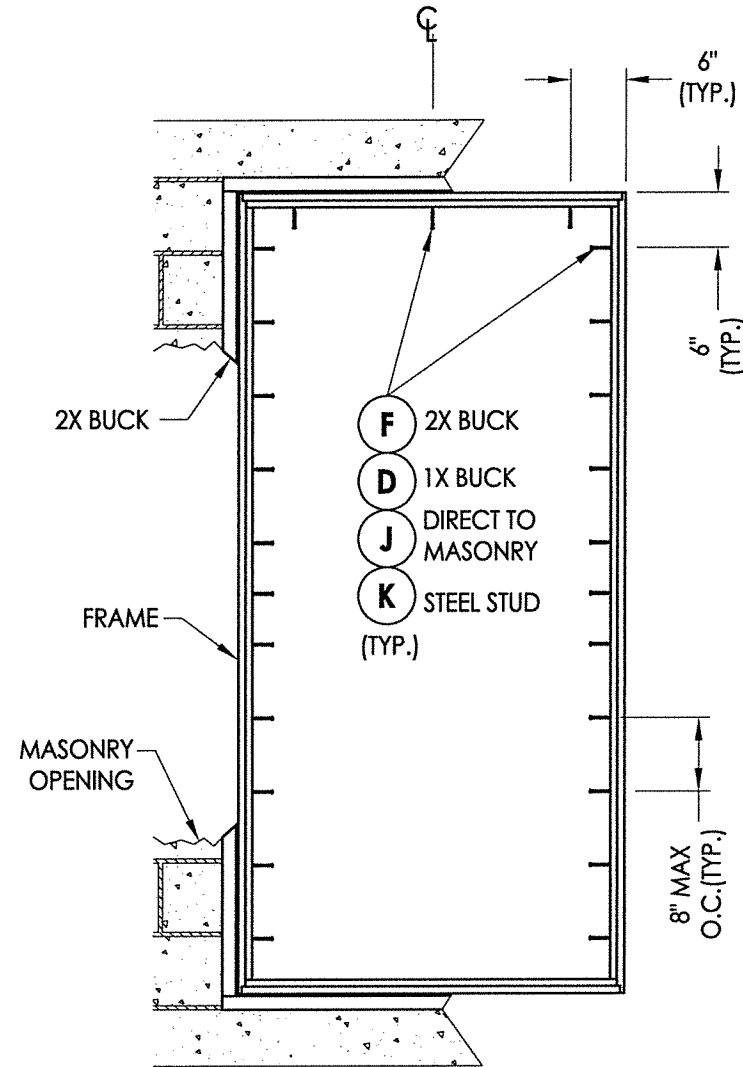
*R<sup>9</sup>W*

[illegible]

Z:\Clients\Fleetwood PERMANENT\A - Florida Product Approvals\FL-14904 Casement\C - Drawings\FL 14904 (2020)\FL-14904.14.dwg



**2X BUCK ANCHORING**



**FRAME MOUNT ANCHORING**

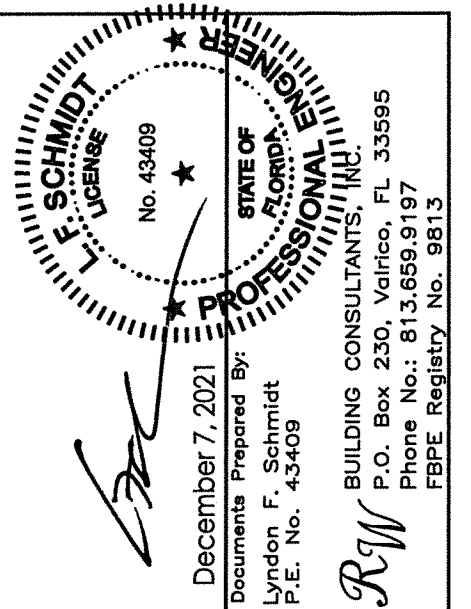
**CONCRETE ANCHOR NOTES:**

1. Concrete anchor locations at the corners may be adjusted to maintain the min. edge distance to mortar joints.
2. 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.
3. 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:**

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

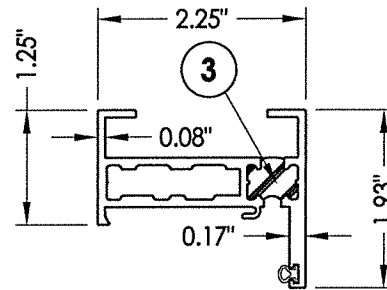


|                   |                           |
|-------------------|---------------------------|
| PRODUCT:          | FLEETWOOD WINDOWS & DOORS |
| PART OR ASSEMBLY: | BUCK & FRAME ANCHORING    |
| DATE:             | 12/01/21                  |
| SCALE:            | N.T.S.                    |
| DWG. BY:          | LFS                       |
| CHK. BY:          | RW                        |
| DRAWING NO.:      | FL-14904.14               |
| SHEET             | 6 OF 9                    |

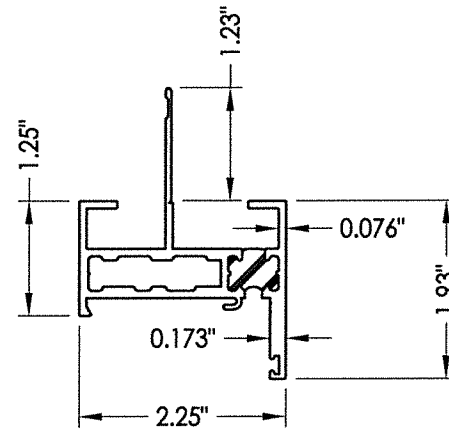




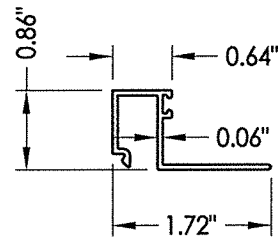
| BILL OF MATERIALS |                                                                                                |              |
|-------------------|------------------------------------------------------------------------------------------------|--------------|
| ITEM #            | DESCRIPTION                                                                                    | 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 PFH CONCRETE SCREW                                                 | STEEL        |
| E                 | MASONRY - 3,000 PSI MIN. CONCRETE CONFORMING TO ACI 301 OR HOLLOW BLOCK CONFORMING TO ASTM C90 | CONCRETE     |
| F                 | #10 X 2-1/2" PPH WOOD SCREW (1-1/4" MIN. EMBEDMENT)                                            | STEEL        |
| J                 | 1/4" x 3-1/4" DeWALT OR ITW PFH CONCRETE SCREW                                                 | STEEL        |
| K                 | #10 PPH SELF-DRILLING SMS                                                                      | STEEL        |
| L                 | #8 PPH WS (1-3/8" MIN. EMBEDMENT)                                                              | STEEL        |
| M                 | #8 X 1-1/2" PPH SMS (1-3/8" MIN. EMBEDMENT)                                                    | STEEL        |
| X                 | STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 Ksi Min, Fu=45 Ksi Min)                    | STEEL        |
| 3                 | THERMAL BREAK ("LIQUID POLYURETHANE" by Azon USA, Inc.)                                        | -            |
| 5                 | BLOCK FRAME (350-T)                                                                            | 6063-T6 ALUM |
| 6                 | FIN BLOCK FRAME (350-T)                                                                        | 6063-T6 ALUM |
| 7                 | ZEE BAR (PANEL)                                                                                | 6063-T6 ALUM |
| 8                 | GLASS STOP (1-1/4")                                                                            | 6063-T6 ALUM |
| 10                | GLASS STOP (9/16")                                                                             | 6063-T6 ALUM |
| 13                | CORNER KEY                                                                                     | 6063-T6 ALUM |
| 20                | SS. BUTT HINGE                                                                                 | SS           |
| 21                | 4 BAR HINGE                                                                                    | SS           |
| 22                | SNUBBER-COMMERCIAL PULL-IN BLOCK                                                               | SS           |
| 23                | MULTIPOINT LOCK HANDLE                                                                         | SS           |
| 27                | 5 POINTS LOCKING BAR (TRUTH)                                                                   | SS           |
| 28                | TIE BAR GUIDE (TRUTH)                                                                          | -            |
| 29                | KEEPER (TRUTH)                                                                                 | SS           |
| 30                | CASEMENT ROTOR GEAR (TRUTH)                                                                    | SS           |
| 35                | CAM HANDLE / STRIKE PLATE                                                                      | SS           |
| 36                | CASEMENT SS. TRACK (TRUTH)                                                                     | SS           |
| 40                | #10 X 1" PPH SMS                                                                               | STEEL        |
| 43                | SCREW NO 10 , UFHP .5"                                                                         | STEEL        |
| 44                | SCREW NO 8, PHP, .50"                                                                          | STEEL        |
| 46                | SCREW NO 8, FHP, .750"                                                                         | STEEL        |
| 50                | BULB VINYL (EPDM 70 DUROMETER) - TREMCO                                                        | -            |
| 51                | MINI BULB VINYL (EPDM 70 DUROMETER) - TREMCO                                                   | -            |
| 55                | SETTING BLOCK                                                                                  | -            |
| 57                | PIVOT SHIM                                                                                     | -            |



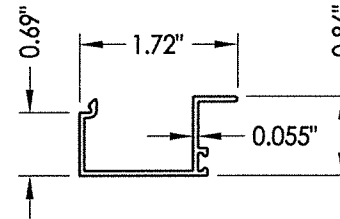
## 5 BLOCK FRAME



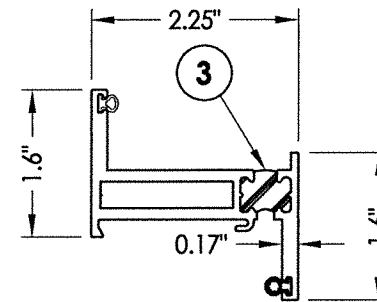
## 6 FIN BLOCK FRAME



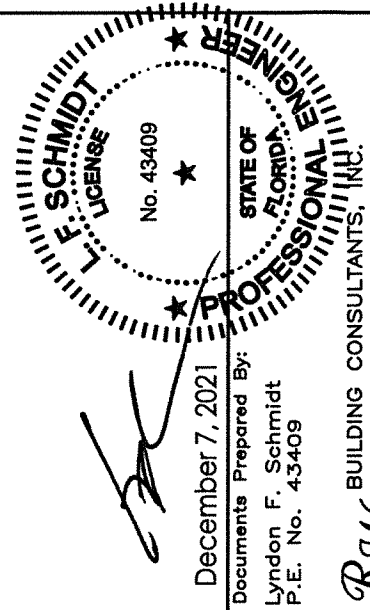
**8 GLASS STOP 1-1/4"**



**10 GLASS STOP 9/16"**



**7 ZEE BAR (PANEL)**



December 7, 2021  
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

| <u>PRODUCT:</u>                  |      |    |  |  |  |
|----------------------------------|------|----|--|--|--|
| FLEETWOOD WINDOWS & DOORS        |      |    |  |  |  |
| <u>PART OR ASSEMBLY:</u>         |      |    |  |  |  |
| BILL OF MATERIALS AND COMPONENTS |      |    |  |  |  |
| REVISIONS                        |      |    |  |  |  |
| NO.                              | DATE | BY |  |  |  |
|                                  |      |    |  |  |  |
|                                  |      |    |  |  |  |
|                                  |      |    |  |  |  |
|                                  |      |    |  |  |  |
|                                  |      |    |  |  |  |
| DATE: 12/01/21                   |      |    |  |  |  |
| SCALE: N.T.S.                    |      |    |  |  |  |
| DWG. BY: LFS                     |      |    |  |  |  |
| CHK. BY: RW                      |      |    |  |  |  |
| DRAWING NO.: FL-14904.14         |      |    |  |  |  |
| SHEET 9 OF 9                     |      |    |  |  |  |