

**COASTAL  
PERFORMANCE™**  
by Sunrise Windows, LTD.

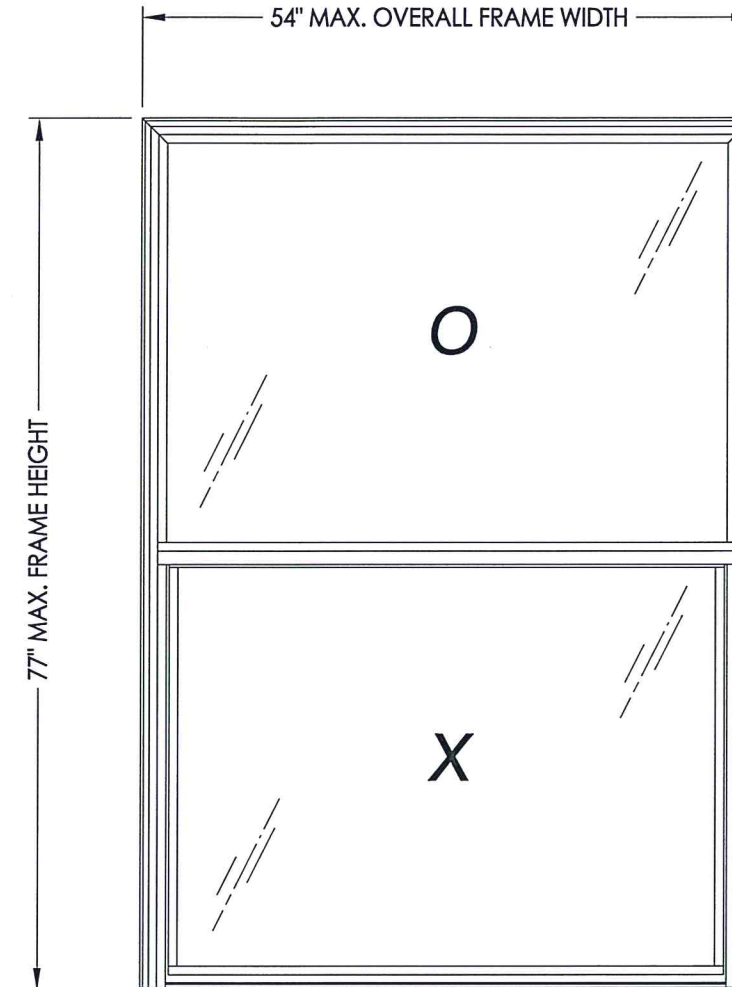
## Coastal Performance Single Hung Window "IMPACT"

### 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 3 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.

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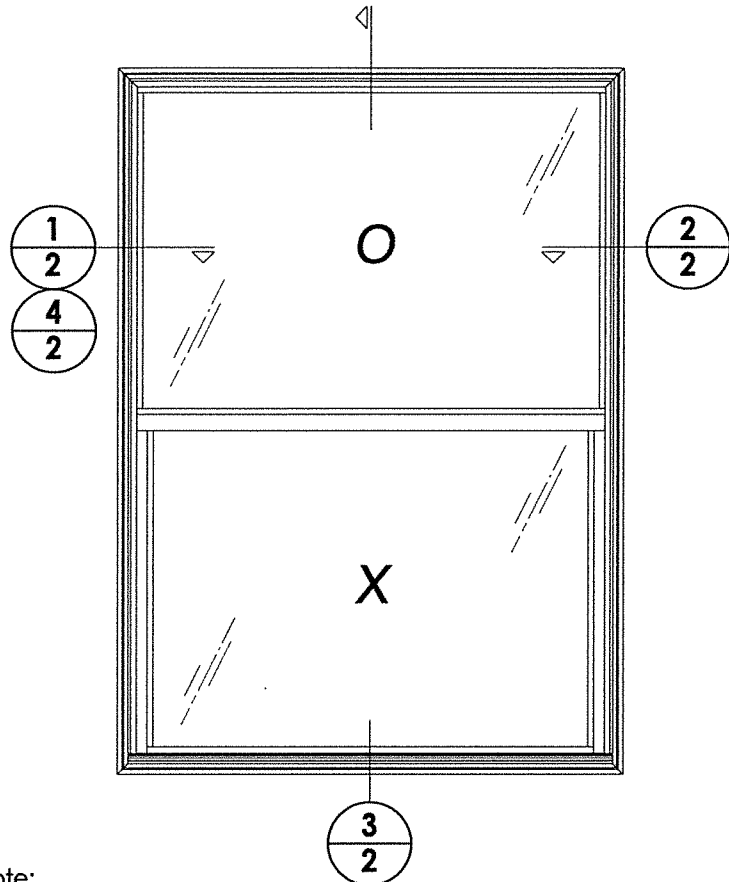
| SHEET# | DESCRIPTION                                          |
|--------|------------------------------------------------------|
| 1      | Typical elevations, design pressures & general notes |
| 2      | Vertical & horizontal cross sections                 |
| 3      | Buck & frame anchoring                               |
| 4      | Components                                           |
| 5      | Bill of materials and glazing details                |



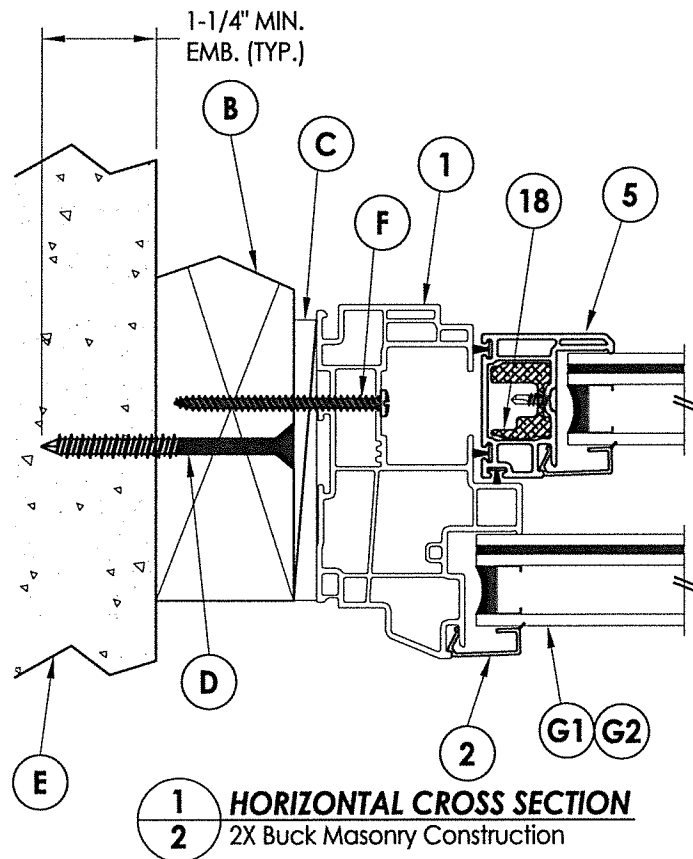
| MAX. OVERALL<br>FRAME<br>DIMENSION | MAX<br>DAY LITE<br>DIMENSION<br>(OPERABLE) | MAX<br>DAY LITE<br>DIMENSION<br>(FIXED) | GLASS<br>TYPE | DESIGN PRESSURE<br>(PSF) |       |
|------------------------------------|--------------------------------------------|-----------------------------------------|---------------|--------------------------|-------|
|                                    |                                            |                                         |               | POS.                     | NEG.  |
| 54.0" X 77.0"                      | 47.5" x 35.25"                             | 49.5" x 35.19"                          | G1, G2        | +50.0                    | -60.0 |

|                                                                                |          |                                                                       |     |
|--------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------|-----|
| <br>2/16/2021<br>Documents Prepared By:<br>Lyndon F. Schmidt<br>P.E. No. 43409 |          | <b>STATE OF FLORIDA<br/>PROFESSIONAL ENGINEER</b>                     |     |
| PRODUCT: SINGLE HUNG WINDOW                                                    |          | PART OR ASSEMBLY: TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES |     |
| 3                                                                              | 2/16/21  | ADD GLAZING FOR NEW TESTING                                           | LFS |
| 2                                                                              | 07/23/20 | UPDATE TO 7th ED (2020) FBC                                           | DAC |
| 1                                                                              | 5/16/19  | REVISE PRODUCT NAME                                                   | LFS |
| NO.                                                                            | DATE     | BY                                                                    |     |
| REVISIONS                                                                      |          |                                                                       |     |
| DATE: 4/12/18                                                                  |          |                                                                       |     |
| SCALE: N.T.S.                                                                  |          |                                                                       |     |
| DWG. BY: JK                                                                    |          |                                                                       |     |
| CHK. BY: LFS                                                                   |          |                                                                       |     |
| DRAWING NO.: FL-26906.1                                                        |          |                                                                       |     |
| SHEET 1 OF 5                                                                   |          |                                                                       |     |

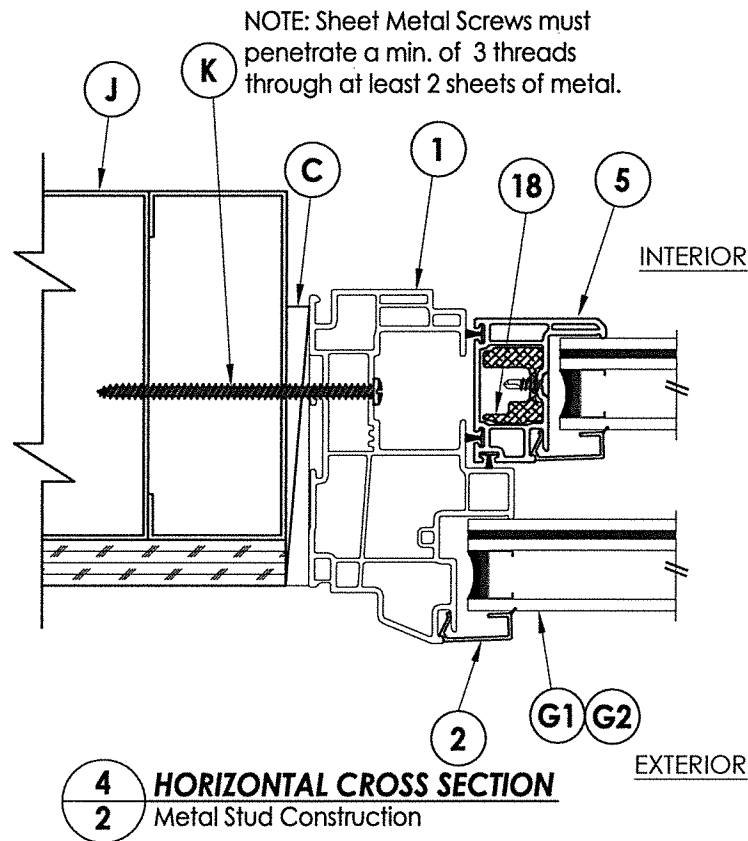
**BUILDING CONSULTANTS, INC.**  
P.O. Box 230, Valrico, FL 33595  
Phone No.: 813.659.9197  
FBPE Registry No. 9813



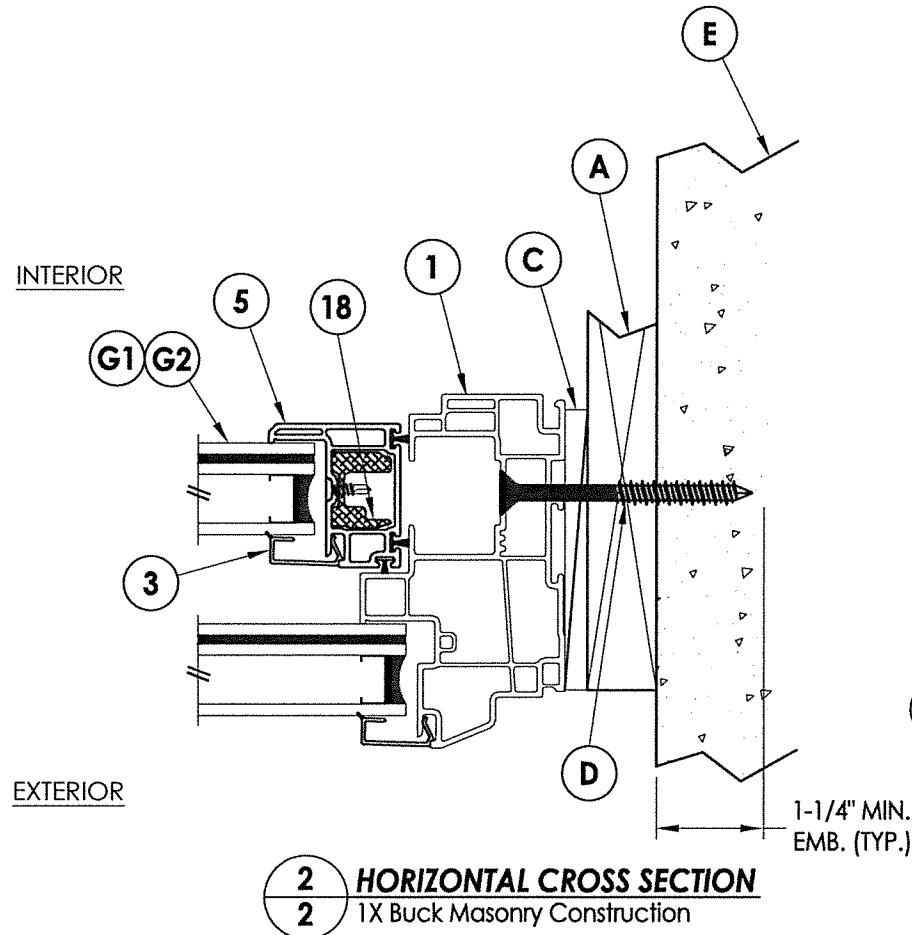
Note:  
1. Lock and keeper located 7" from  
each end of lock/meeting rail.

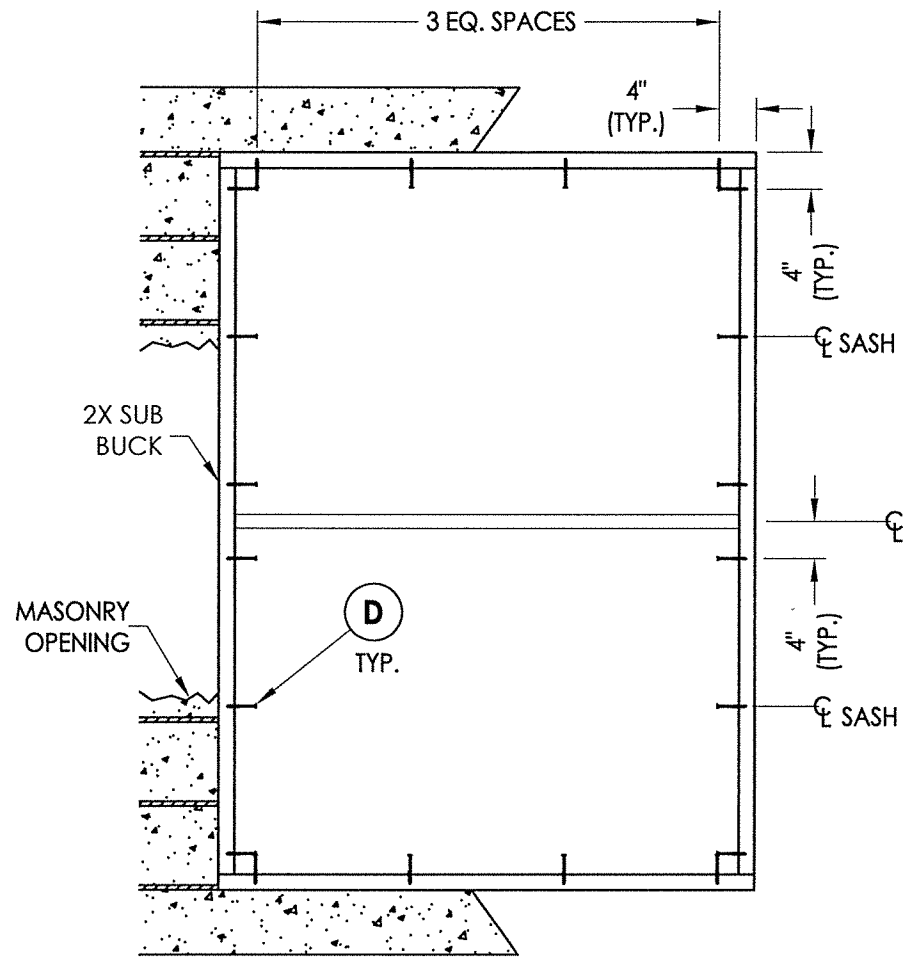


**1** **HORIZONTAL CROSS SECTION**  
**2** 2X Buck Masonry Construction

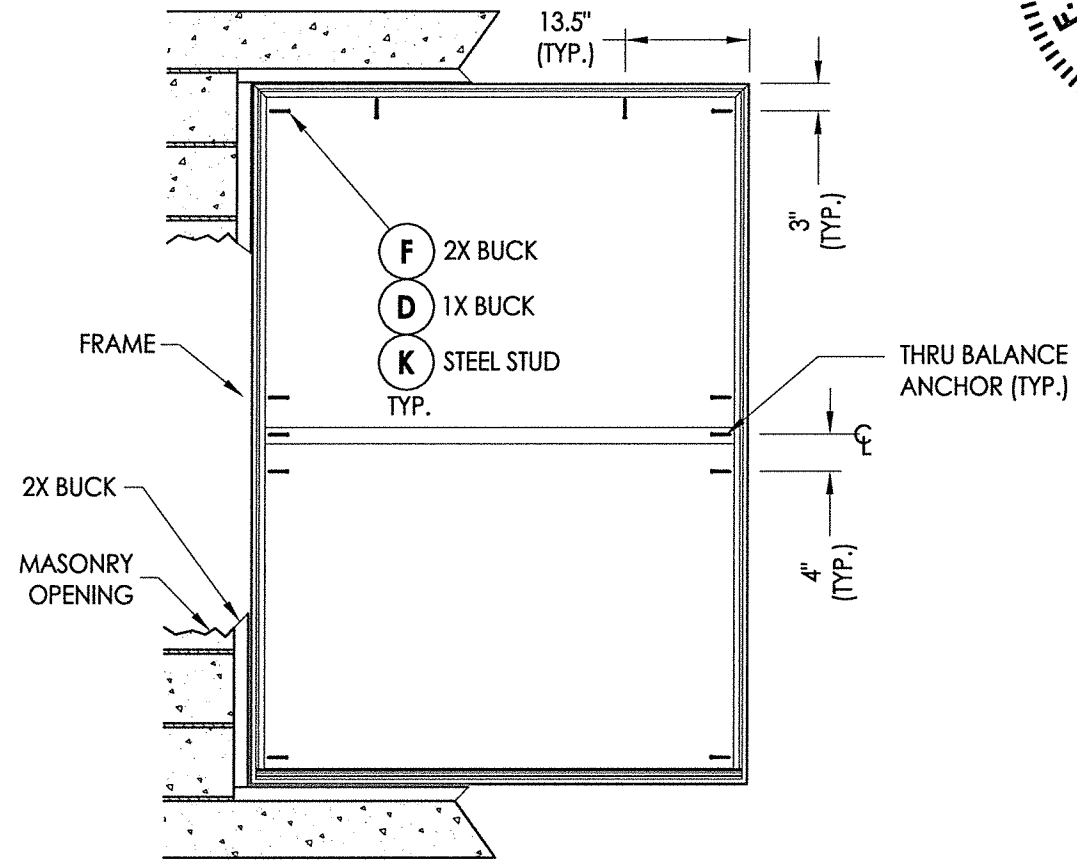


**4** **HORIZONTAL CROSS SECTION**  
**2** Metal Stud Construction





**BUCK ANCHORING**



**FRAME ANCHORING**

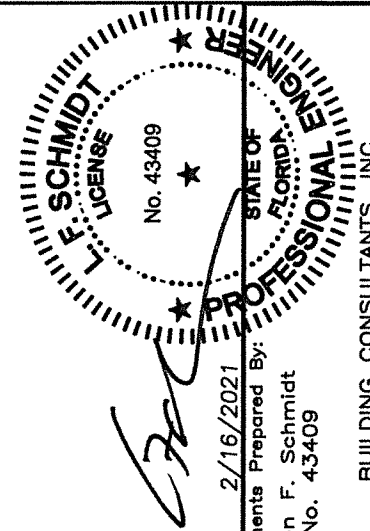
**CONCRETE ANCHOR NOTES:**

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.



2/16/2021  
Documents Prepared By:  
Lyndon F. Schmidt  
P.E. No. 43409

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

PRODUCT: SINGLE HUNG WINDOW

PART OR ASSEMBLY:  
BUCK & FRAME ANCHORING

| NO. | DATE     | REVISIONS                   |
|-----|----------|-----------------------------|
| 3   | 2/16/21  | ADD GLAZING FOR NEW TESTING |
| 2   | 07/23/20 | UPDATE TO 7th ED (2020) FBC |
| 1   | 5/16/19  | REVISE PRODUCT NAME         |

DATE: 4/12/18

SCALE: N.T.S.

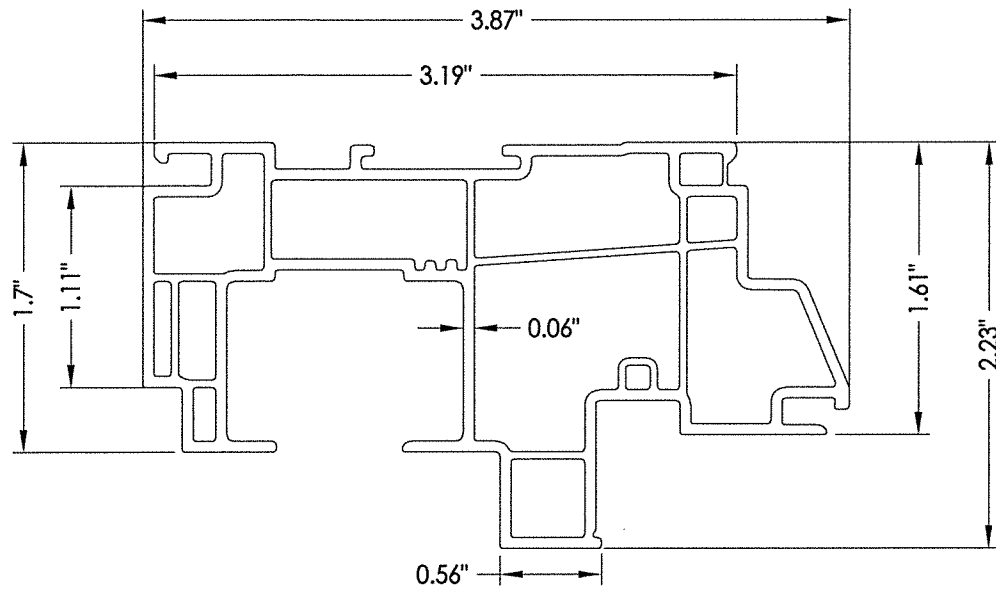
DWG. BY: JK

CHK. BY: LFS

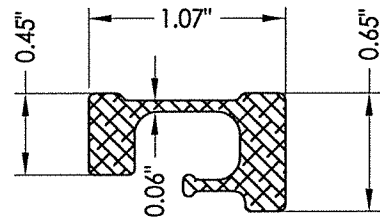
DRAWING NO.:

FL-26906.1

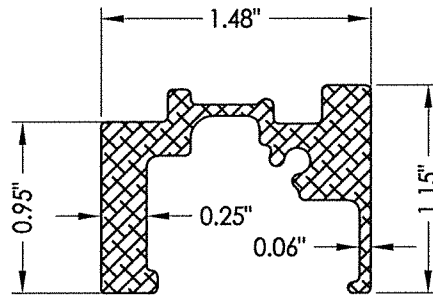
SHEET 3 OF 5



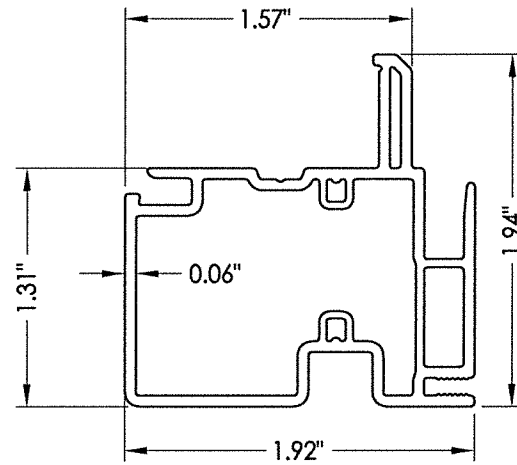
**1** FRAME



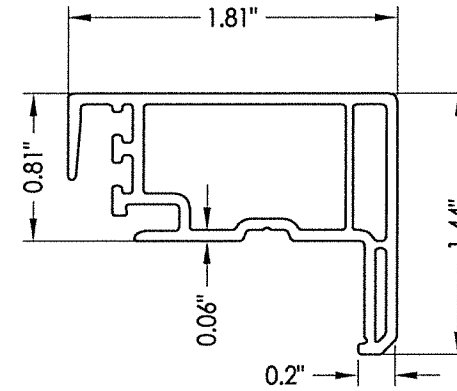
## 10 LOCK RAIL REINFORCEMENT



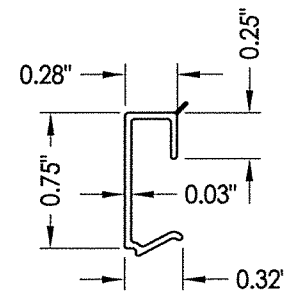
## 9 MEETING RAIL REINFORCEMENT



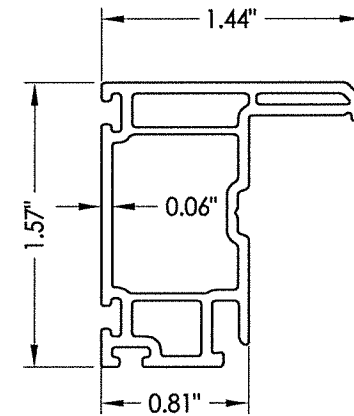
## 6 MEETING RAIL



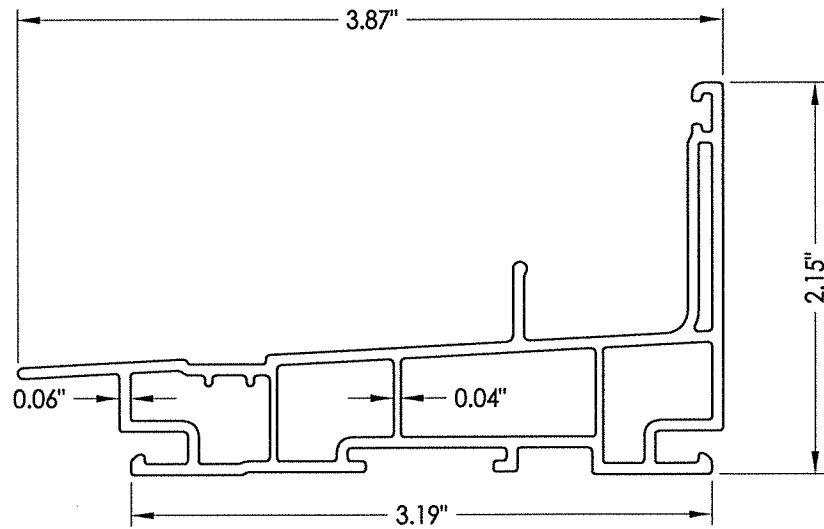
**7 LOCK RAIL**



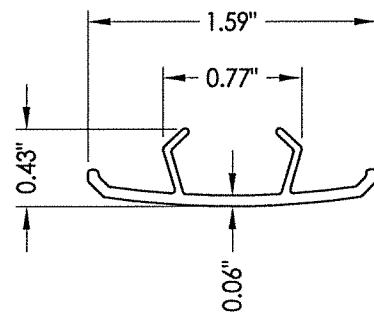
## 2 GLAZING BEAD



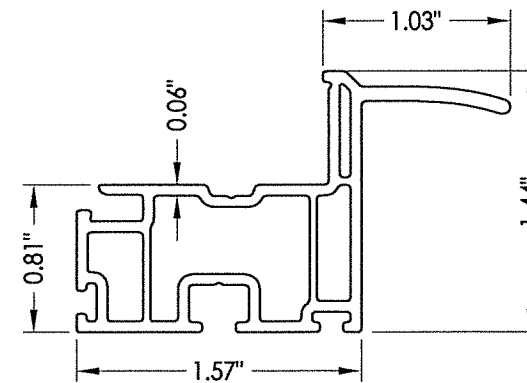
**5** STILE



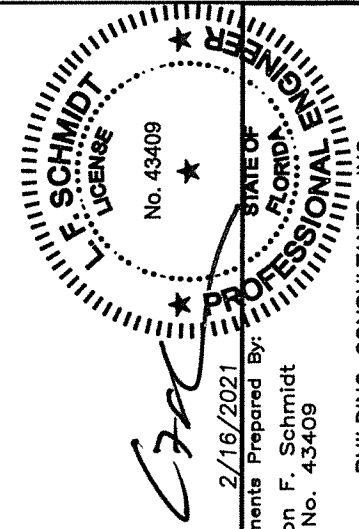
④ SILL



### 3 HEAD ADAPTER



**8 BOTTOM RAIL**



2/16/2021  
Documents Prepared By:  
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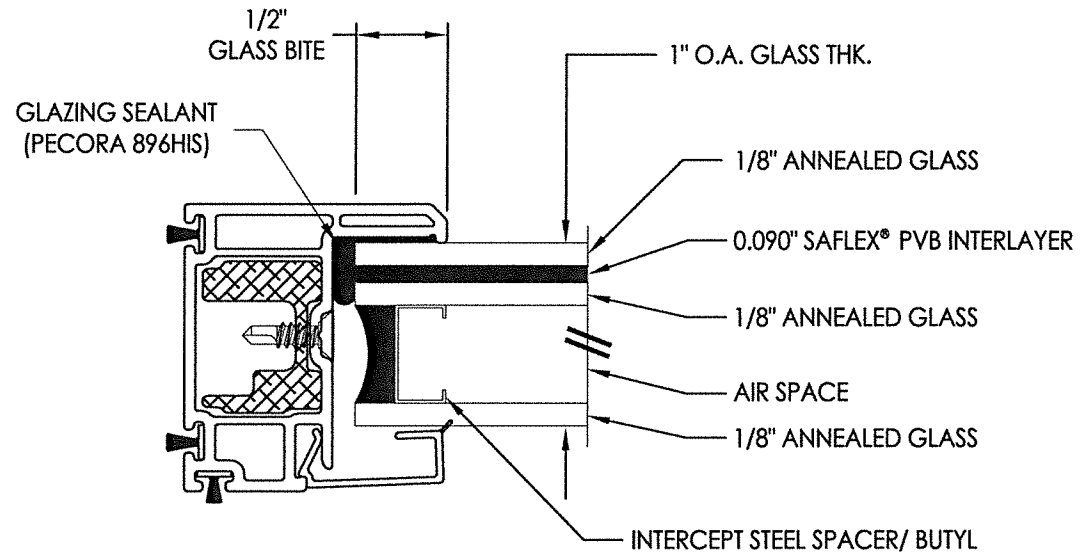


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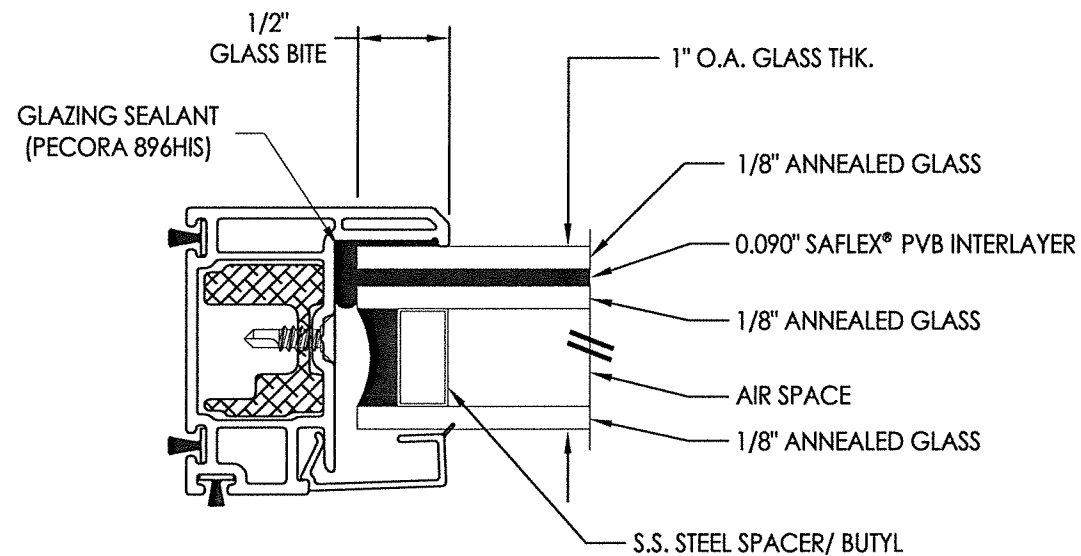
[illegible]

| BILL OF MATERIALS |                                                                                                |                |
|-------------------|------------------------------------------------------------------------------------------------|----------------|
| ITEM #            | DESCRIPTION                                                                                    | MATERIAL       |
| A                 | 1X BUCK (SG >= 0.42)                                                                           | WOOD           |
| B                 | 2X BUCK (SG >= 0.42)                                                                           | WOOD           |
| C                 | 1/4" MAX. SHIM SPACE                                                                           | -              |
| D                 | 1/4" X 2-3/4" PFH 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       |
| F                 | #10 X 2-1/4" PPH SMS (1-1/4" MIN. EMBEDMENT)                                                   | STEEL          |
| J                 | STEEL STUD Min. Thk .033" (ASTM A653 GRADE 33 Fy=33 ksi min., Fu=45 ksi min.)                  | STEEL          |
| K                 | #10 PPH SELF-DRILLING SMS                                                                      | STEEL          |
| 1                 | EXTRUDED VINYL FRAME (1833)*                                                                   | RIGID PVC      |
| 2                 | EXTRUDED VINYL GLAZING BEAD (836B)*                                                            | RIGID PVC      |
| 3                 | HEAD ADAPTER (1863)*                                                                           | RIGID PVC      |
| 4                 | SILL (1832)*                                                                                   | RIGID PVC      |
| 5                 | STILE (1808)*                                                                                  | RIGID PVC      |
| 6                 | MEETING RAIL (1837)*                                                                           | RIGID PVC      |
| 7                 | LOCK RAIL (1806)*                                                                              | RIGID PVC      |
| 8                 | BOTTOM RAIL (1805)*                                                                            | RIGID PVC      |
| 9                 | MEETING RAIL REINFORCEMENT                                                                     | 6063 - T5 ALUM |
| 10                | LOCK RAIL REINFORCEMENT                                                                        | 6063 - T5 ALUM |
| 11                | SASH LOCK                                                                                      | -              |
| 12                | KEEPER                                                                                         | -              |
| 18                | STILE/BOTTOM RAIL REINFORCEMENT                                                                | 6063 - T5 ALUM |
| 20                | WEATHERSTRIP                                                                                   | -              |
| 24                | BULB GASKET                                                                                    | FOAM           |

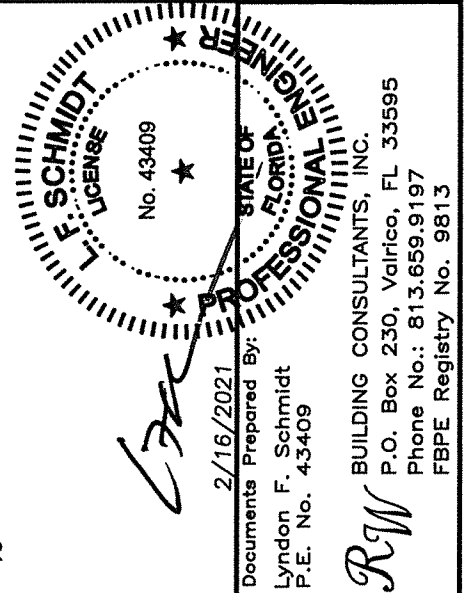
\* THE APPROVED WHITE RIGID PVC EXTRUSIONS FOR WINDOWS ARE TO BE PRODUCED BY EXTRUDERS LICENSEES IN "AAMA CERTIFICATION PROGRAMS FOR RIGID PVC EXTRUSIONS".



## **G1** GLAZING DETAIL



## G2 GLAZING DETAIL



**PRODUCT:**  
SINGLE HUNG WINDOW

**PART OR ASSEMBLY:**

[illegible]

DATE: 4/12/18

SCALE: N.T.S.

DWG. BY: JK

CHK. BY: LFS

DRAWING NO.:  
FL-26906.1

SHEET 5 OF 5