

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

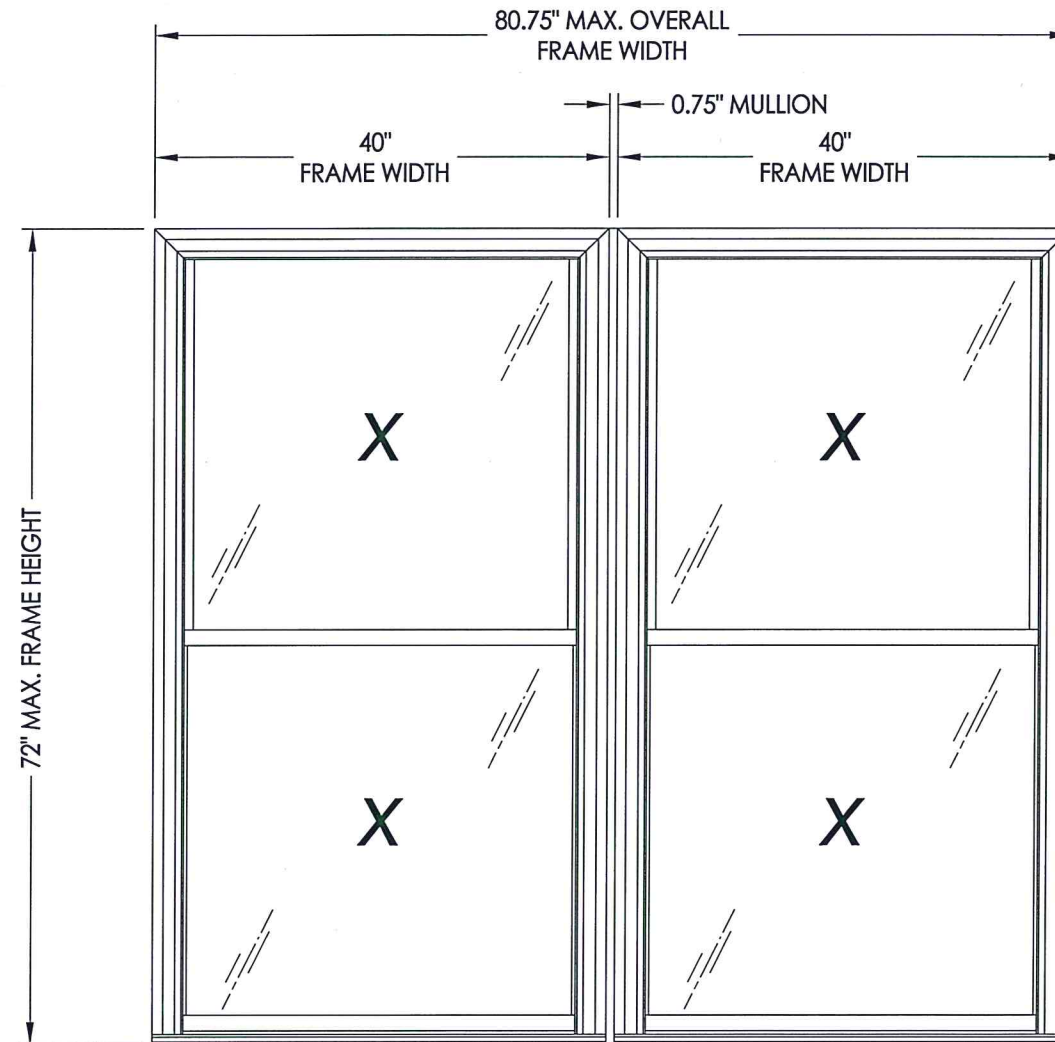
## Coastal Performance Twin Mulled Double Hung Window "IMPACT"

### 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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| 1       | Typical elevations, design pressures & general notes |
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| 6       | Mullion details & cross sections                     |
| 7       | Components                                           |
| 8       | Bill of materials & glazing details                  |



| MAX. OVERALL<br>FRAME<br>DIMENSION | MAX<br>DAY LITE<br>DIMENSION | GLASS<br>TYPE | DESIGN PRESSURE<br>(PSF) |       |
|------------------------------------|------------------------------|---------------|--------------------------|-------|
|                                    |                              |               | POS.                     | NEG.  |
| 80.75" X 72.0"                     | 34.0" x 32.38"               | G1            | +50.0                    | -50.0 |

|                                                                                                                    |                                                     |
|--------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
|                                                                                                                    |                                                     |
| July 28, 2020                                                                                                      |                                                     |
| 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:                                                                                                           | SUNRISE WINDOWS                                     |
| PART OR ASSEMBLY:                                                                                                  | TYPICAL ELEVATION, DESIGN PRESSURES & GENERAL NOTES |
| DATE                                                                                                               | NO.                                                 |
| 4/17/18                                                                                                            | 2                                                   |
| 7/27/20                                                                                                            | 1                                                   |
| UPDATE TO 7TH ED. (2020) FBC                                                                                       | LFS                                                 |
| ADD ALT. ONE-SIDED MULLION                                                                                         | LFS                                                 |
| ANCHOR CLIP ANCHORING                                                                                              | BY                                                  |
| REVISIONS                                                                                                          |                                                     |
| DATE: 4/17/18                                                                                                      |                                                     |
| SCALE: N.T.S.                                                                                                      |                                                     |
| DWG. BY: JK                                                                                                        |                                                     |
| CHK. BY: LFS                                                                                                       |                                                     |
| DRAWING NO.: FL-26910.4                                                                                            |                                                     |
| SHEET 1 OF 8                                                                                                       |                                                     |

1-1/4" MIN.  
EMB. (TYP.)

H

E

A

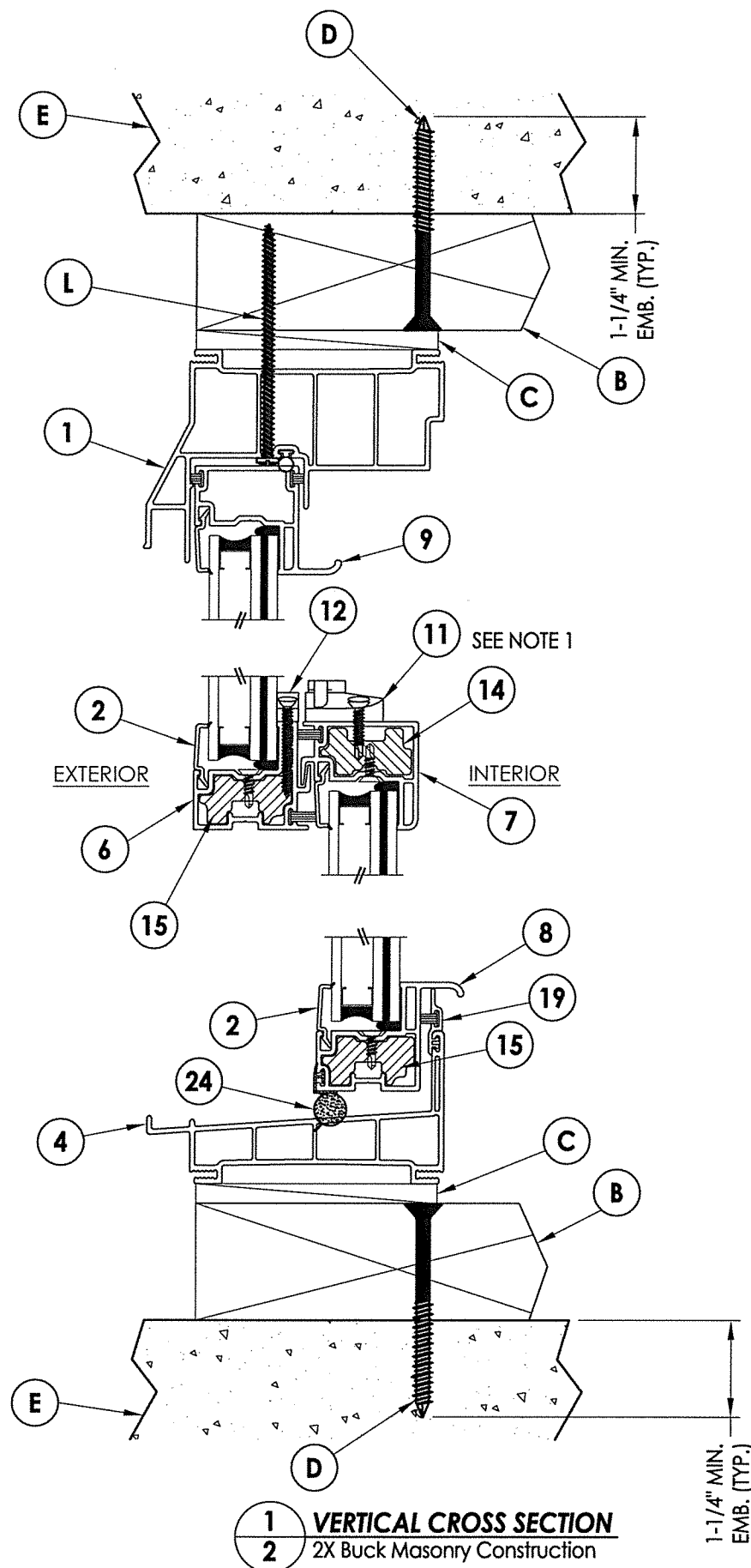
C

1

9

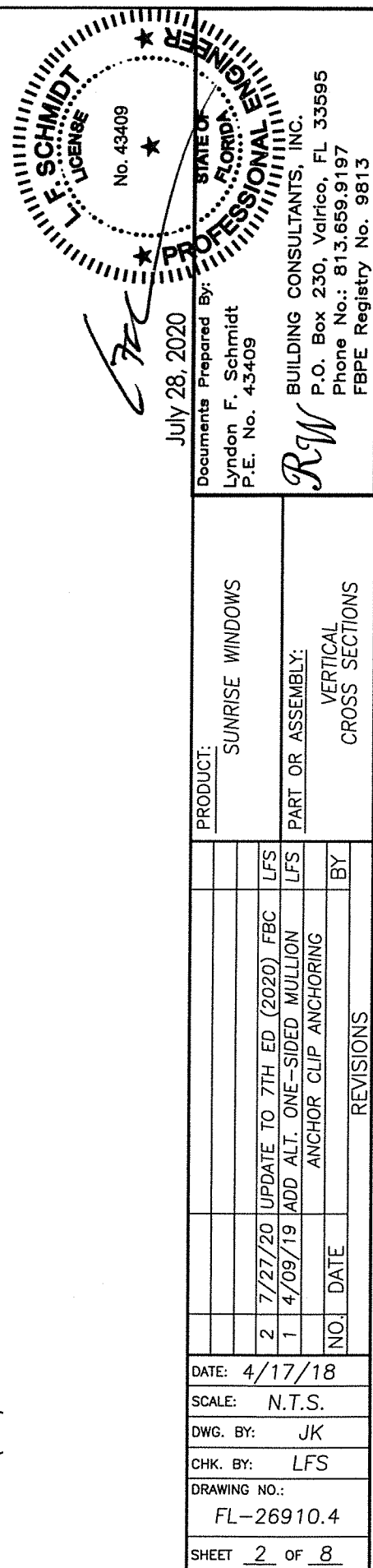
12

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

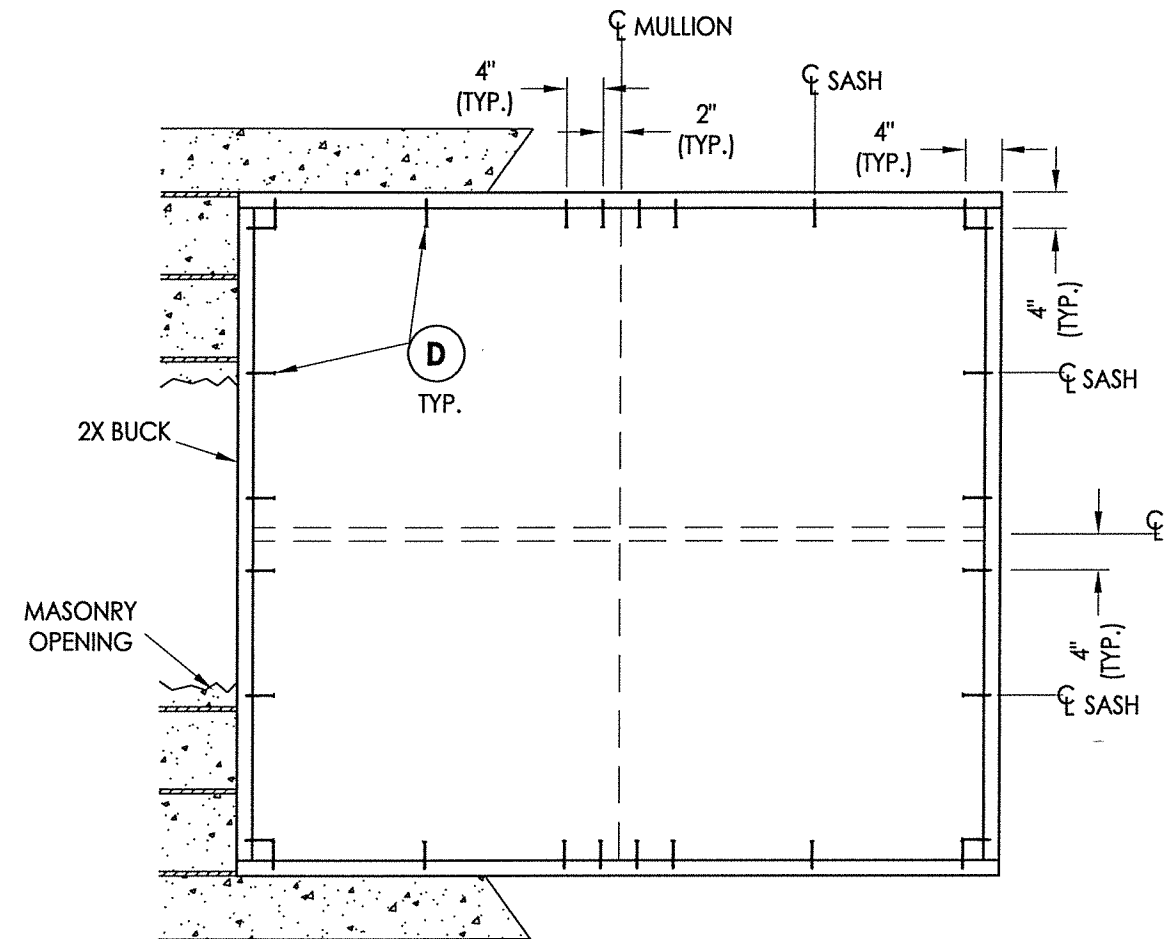


## 1 VERTICAL CROSS SECTION

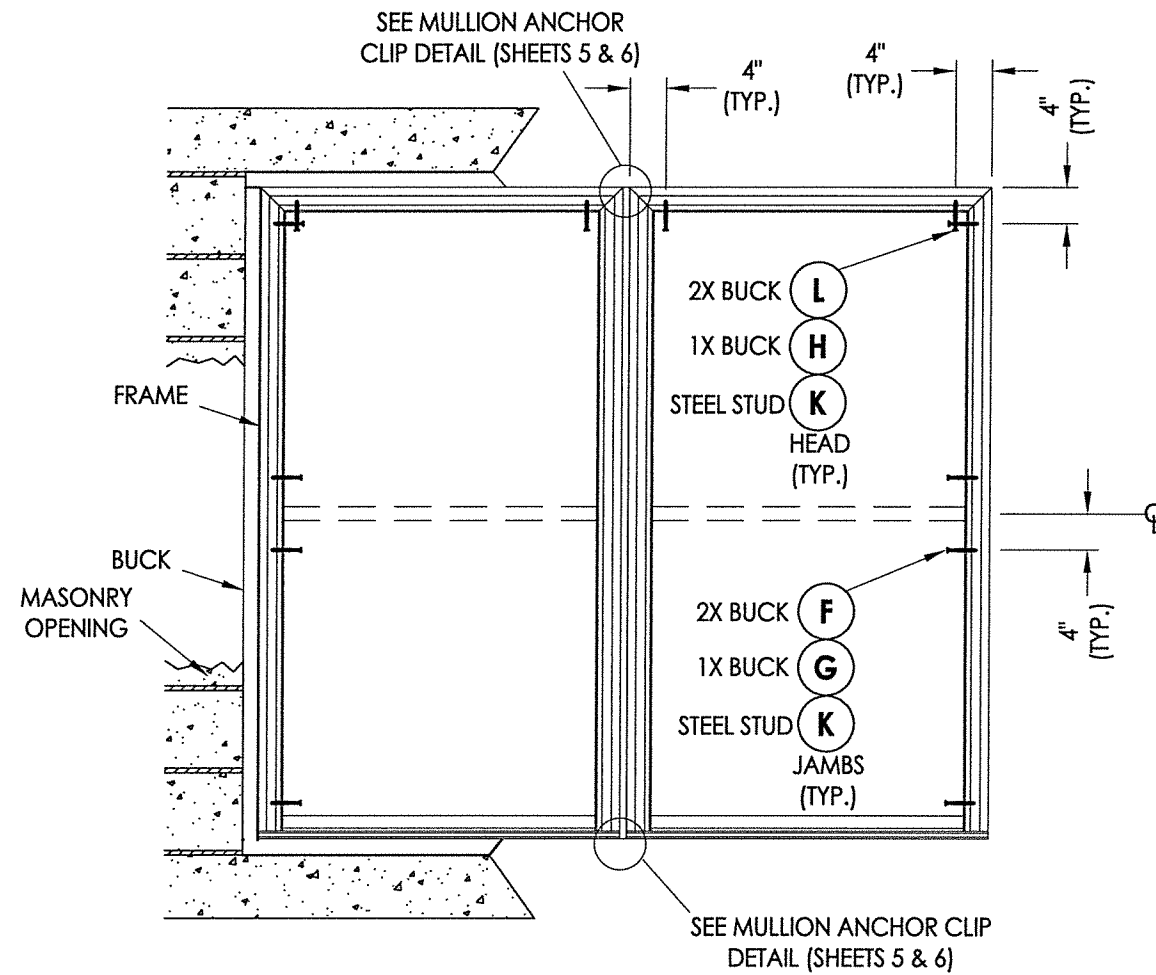
### 2 2X Buck Masonry Construction







## **BUCK ANCHORING**



## FRAME ANCHORING

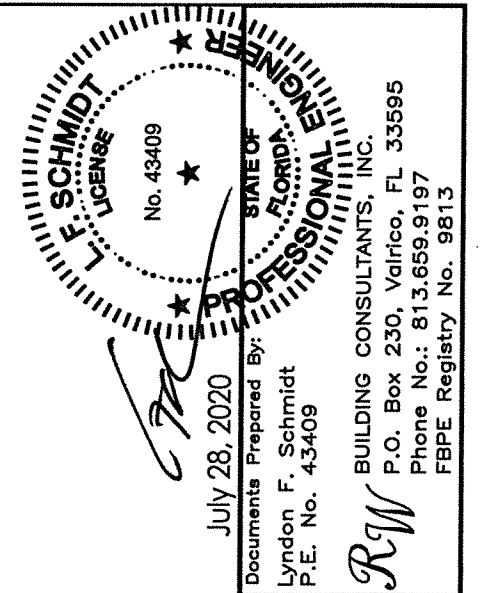
CONCRETE ANCHOR NOTES:

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®    | 3/16"       | 1-1/2"         | 3"                             | 1-1/2"                            |
|                | 1/4"        | 1-1/4"         | 2"                             | 4"                                |
| ELCO 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.



July 28, 2020

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P.E. No. 43409

**RW**  
BUILDING CONSULTANTS, INC.  
P.O. Box 230, Valrico, FL 333  
Phone No.: 813.659.9197  
FBPE Registry No. 9813

PRODUCT: SUNRISE WINDOWS

**PART OR ASSEMBLY:**  
**BUCK & FRAME**  
**ANCHORING**

|     |         |                                                  |           |
|-----|---------|--------------------------------------------------|-----------|
| 2   | 7/27/20 | UPDATE TO 7TH ED (2020) FBC                      | LFS       |
| 1   | 4/09/19 | ADD ALT. ONE-SIDED MULLION ANCHOR CLIP ANCHORING | LFS       |
| NO. | DATE    |                                                  | BY        |
|     |         |                                                  | REVISIONS |

DATE: 4/17/18

SCALE: N.T.S.

DWG. BY: JK

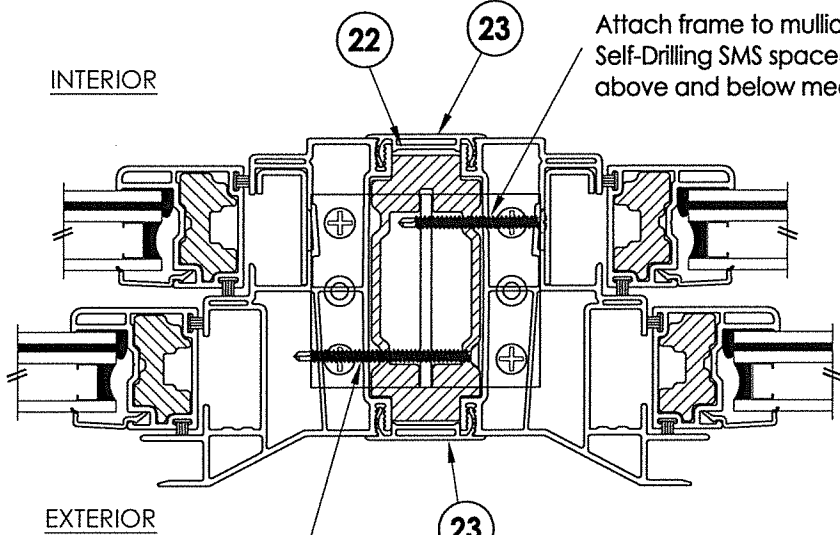
CHK. BY: LFS

DRAWING NO.:

FL-26910.4

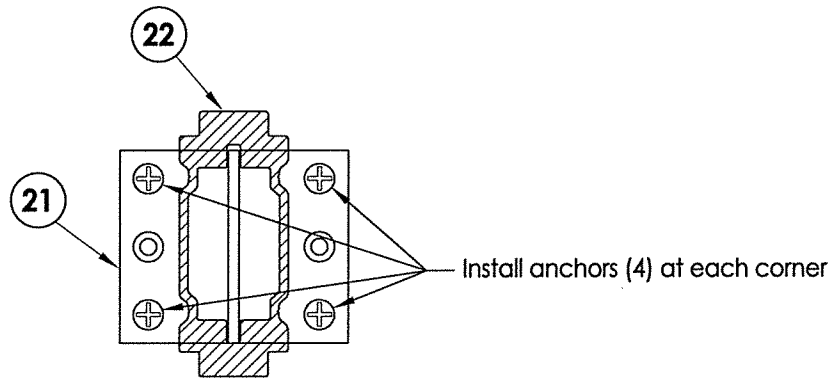
SHEET 4 OF 8

R:\Clients\Sunrise Windows\A - Florida Product Approvals\FL-26910 - Double Hung Window\C - Drawings\FL 26910 (2020)\FL-26910.4.dwg, 5.4

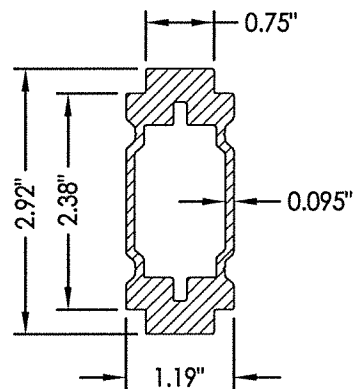


Attach mullion to frame w/ #8 x 2" FH Self-Drilling SMS spaced 6" from each end & 6" above and below meeting rail (4 total).

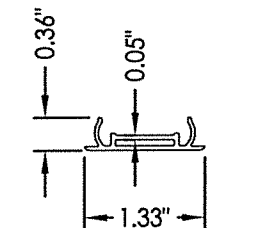
**1**  
**5** **HORIZONTAL CROSS SECTION**  
@ MULLION ANCHOR BRACKET



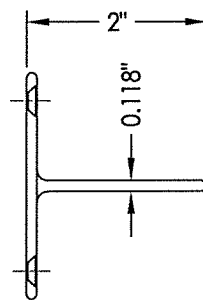
**BRACKET TO MULLION DETAIL**



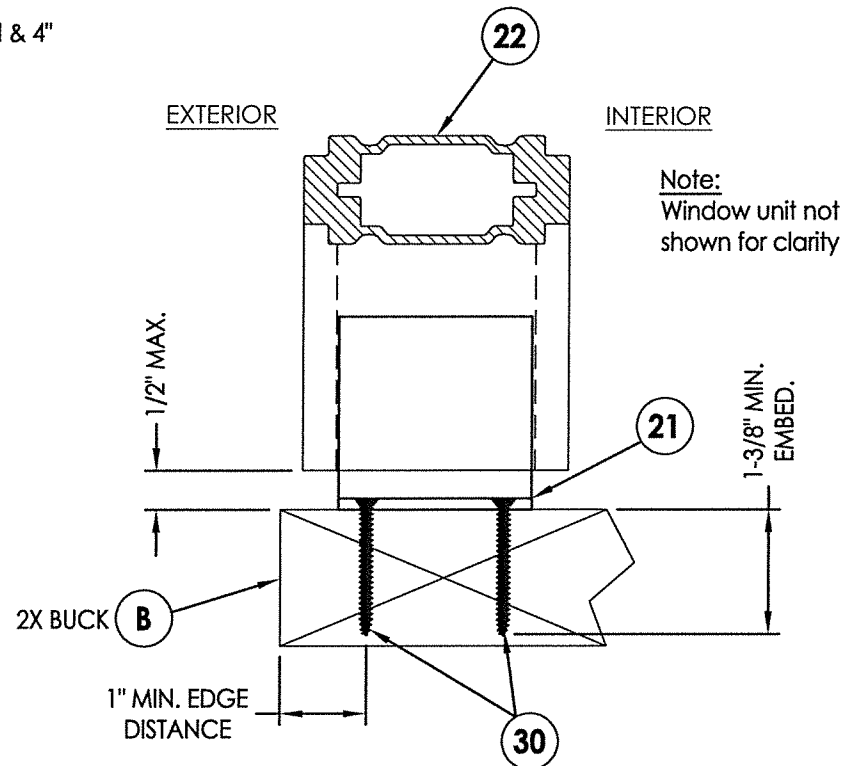
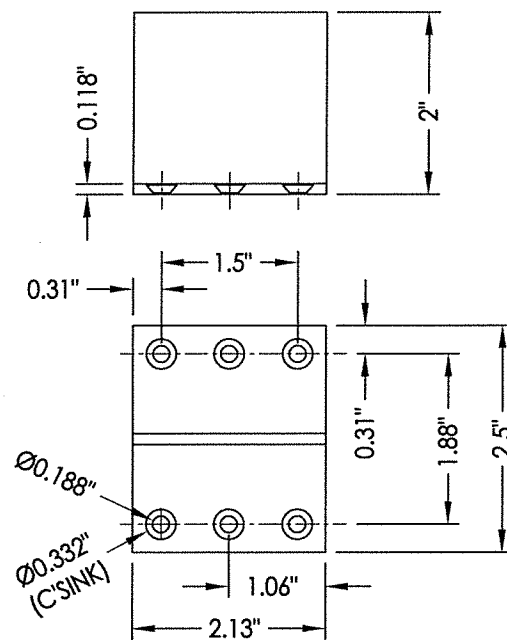
**22** **MULLION (5902)**  
6063-T5 ALUM



**23** **MULLION COVER**

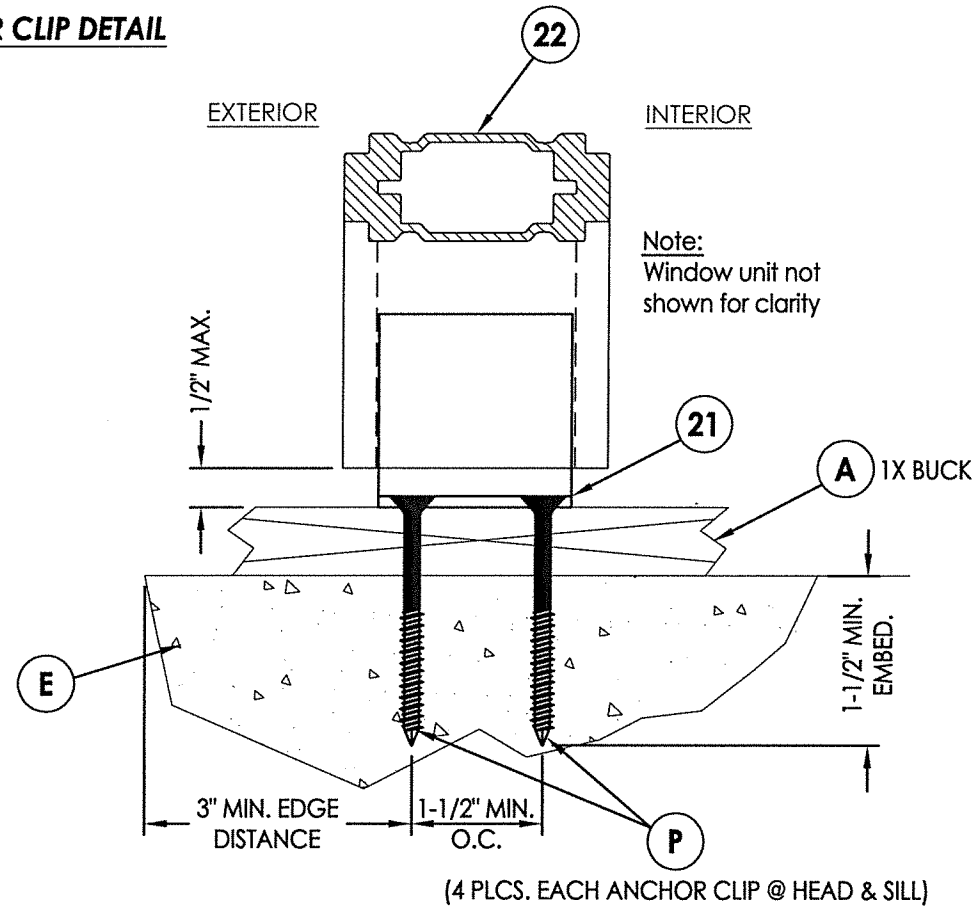


**21** **MULLION ANCHOR BRACKET (5950)**  
6063-T5 ALUM



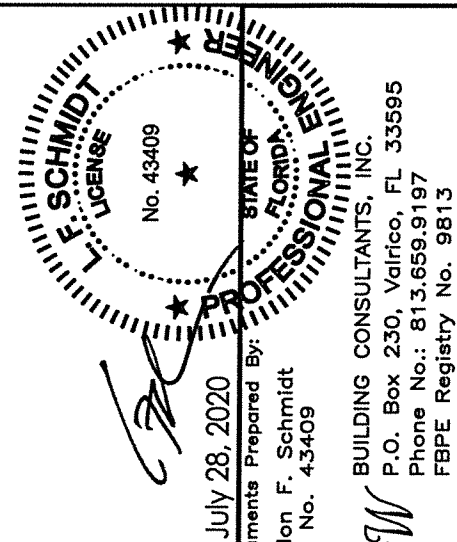
**MULLION ANCHOR CLIP DETAIL**

(4 PLCS. EACH ANCHOR CLIP @ HEAD & SILL)



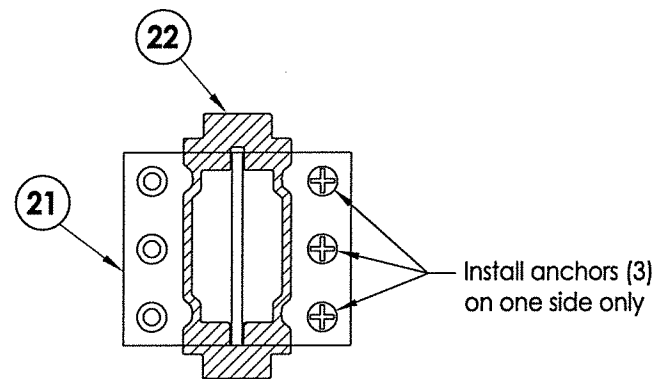
**MULLION ANCHOR CLIP DETAIL**

(4 PLCS. EACH ANCHOR CLIP @ HEAD & SILL)

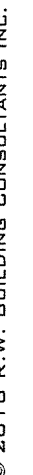


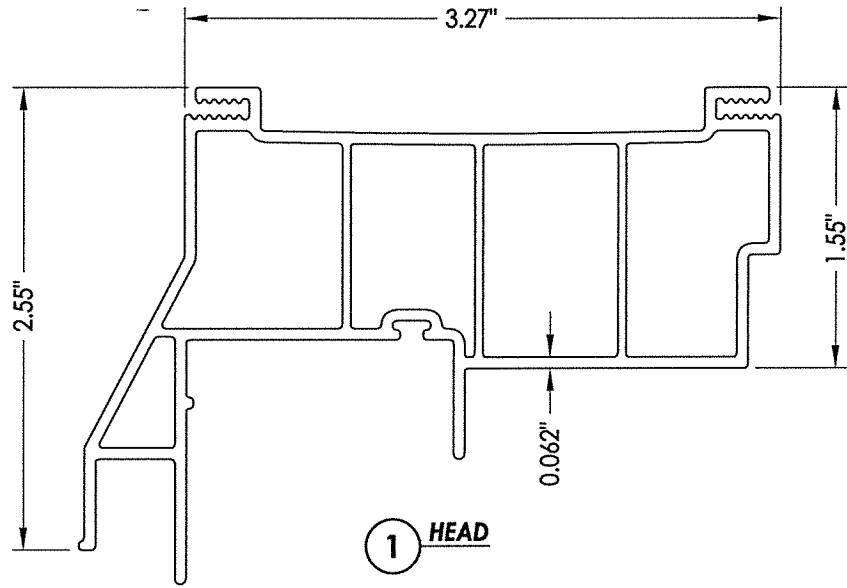
|                   |            |                                  |           |
|-------------------|------------|----------------------------------|-----------|
| PRODUCT:          |            | SUNRISE WINDOWS                  |           |
| PART OR ASSEMBLY: |            | MULLION DETAILS & CROSS SECTIONS |           |
| DATE:             | 4/17/18    | NO.                              | DATE      |
| SCALE:            | N.T.S.     | BY                               | REVISIONS |
| DWG. BY:          | JK         | BY                               |           |
| CHK. BY:          | LFS        | BY                               |           |
| DRAWING NO.:      | FL-26910.4 | BY                               |           |
| SHEET             | 5          | OF                               | 8         |

**1** **HORIZONTAL CROSS SECTION**  
**6** @ MULLION ANCHOR BRACKET

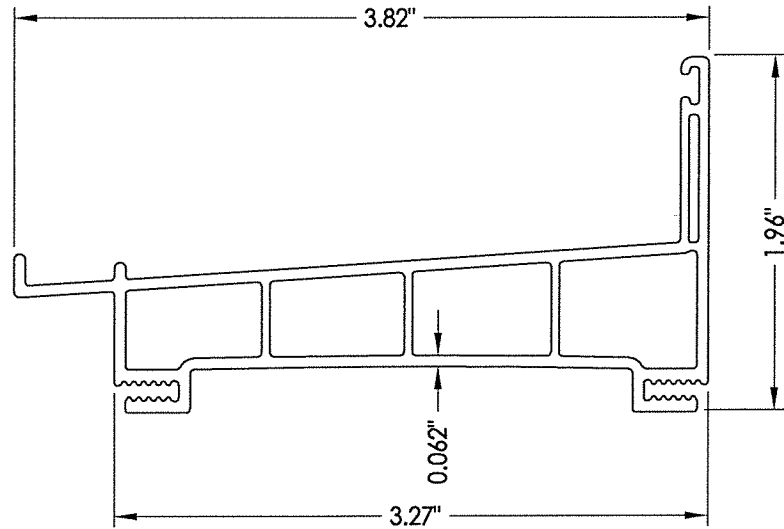


ALTERNATE ONE-SIDED MULLION ANCHOR BRACKET ANCHORING  
(ALLOWED INTO 2X BUCK/STUD ONLY)

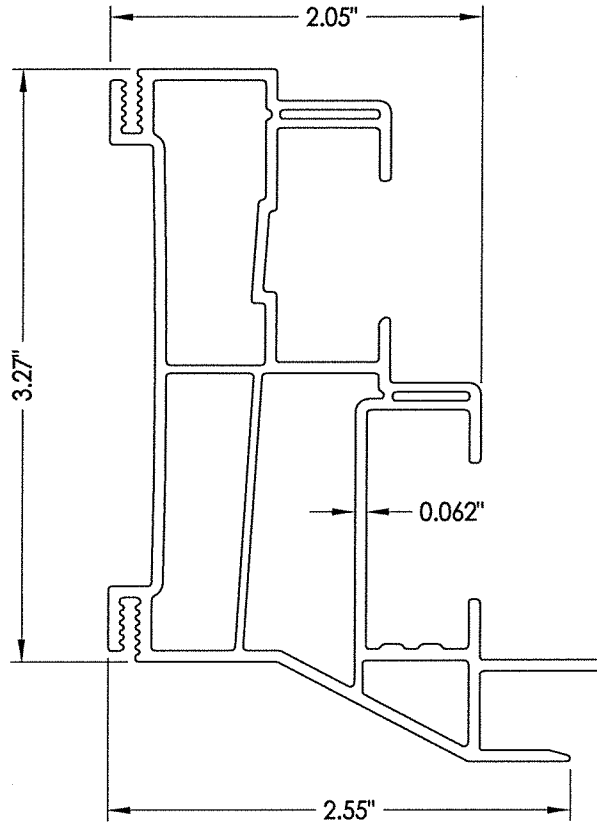




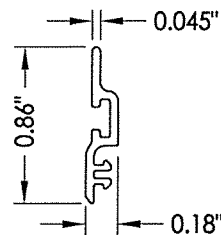
1 HEAD



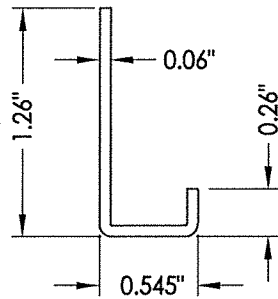
4 SILL



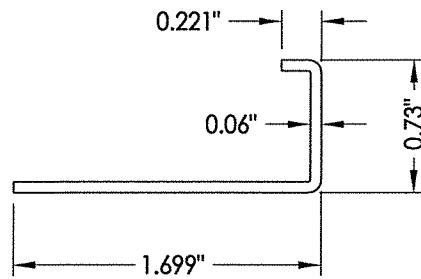
3 JAMB



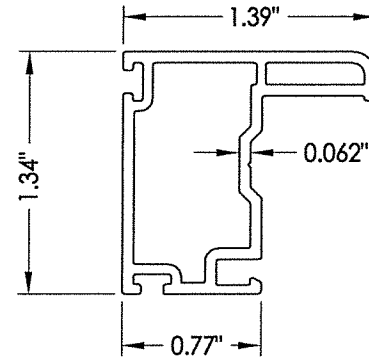
19 SILL RISER



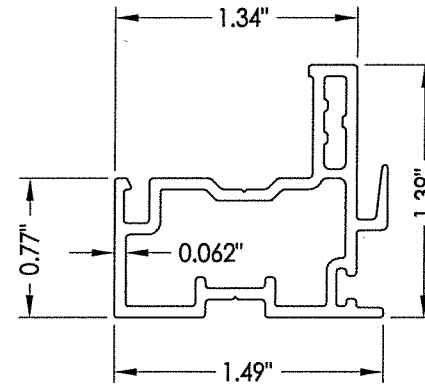
20 JAMB REINFORCEMENT  
1" WIDE



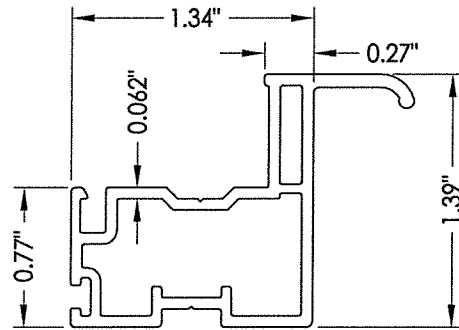
25 J-CHANNEL REINFORCEMENT  
24" WIDE



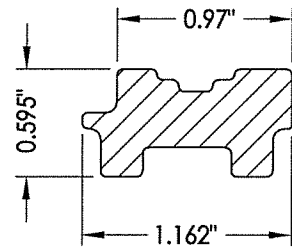
5 STILE



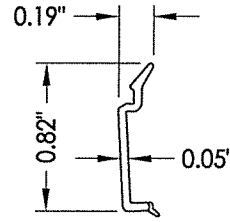
6 KEEPER RAIL



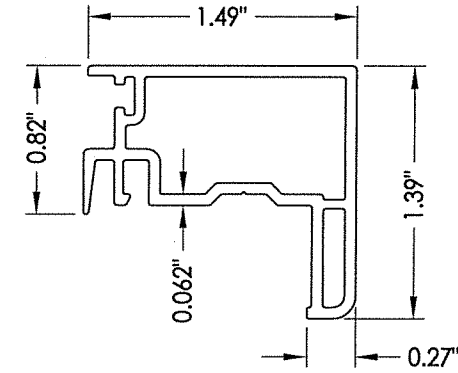
8 BOTTOM LIFT RAIL



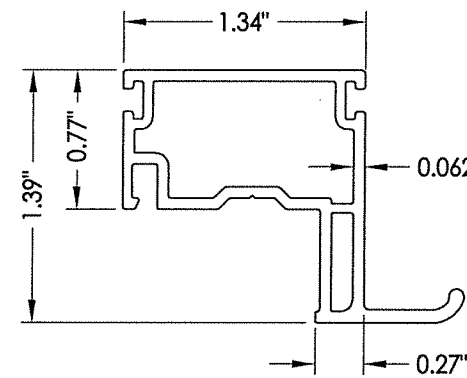
14 LOCK RAIL REINFORCEMENT



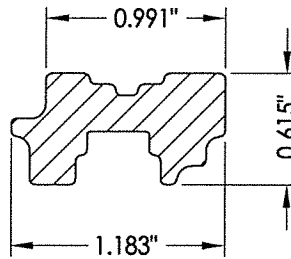
2 GLAZING BEAD



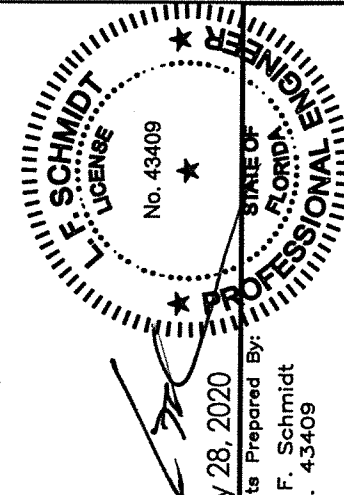
7 LOCK RAIL



8 PULL RAIL



15 STILE/RAIL REINFORCEMENT



July 28, 2020

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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: SUNRISE WINDOWS

PART OR ASSEMBLY: COMPONENTS

| REVISIONS |         |     |                                                  |
|-----------|---------|-----|--------------------------------------------------|
| NO.       | DATE    | BY  |                                                  |
| 2         | 7/27/20 | LFS | UPDATE TO 7TH ED (2020) FBC                      |
| 1         | 4/09/19 | LFS | ADD ALT. ONE-SIDED MULLION ANCHOR CLIP ANCHORING |

DATE: 4/17/18

SCALE: N.T.S.

DWG. BY: JK

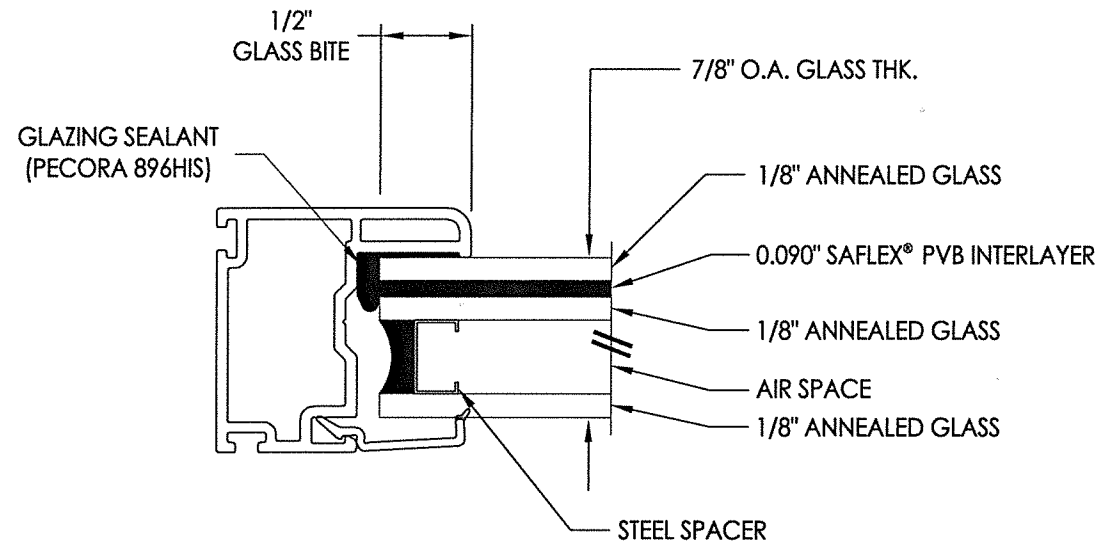
CHK. BY: LFS

DRAWING NO.: FL-26910.4

SHEET 7 OF 8

| BILL OF MATERIALS |                                                                                                |              |
|-------------------|------------------------------------------------------------------------------------------------|--------------|
| ITEM #            | DESCRIPTION                                                                                    | MATERIAL     |
| A                 | 1X BUCK (SG >= 0.42)                                                                           | WOOD         |
| B                 | 2X BUCK (SG >= 0.42)                                                                           | WOOD         |
| C                 | 1/8" MAX. SHIM SPACE                                                                           | -            |
| D                 | 1/4" X 2-3/4" PFH ELCO 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                 | #8 X 2-1/2" PPH SMS (1-3/16" MIN. EMBEDMENT)                                                   | STEEL        |
| G                 | 1/4" X 3-1/4" PFH ELCO OR ITW CONCRETE SCREW                                                   | STEEL        |
| H                 | 1/4" X 3-3/4" PFH ELCO OR ITW CONCRETE SCREW                                                   | 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        |
| L                 | #8 X 3" PPH SMS (1-3/16" MIN. EMBEDMENT)                                                       | STEEL        |
| P                 | 3/16" X 2-3/4" PFH ITW CONCRETE SCREW                                                          | STEEL        |
| 1                 | HEAD (701A)*                                                                                   | RIGID PVC    |
| 2                 | GLAZING BEAD (716A)*                                                                           | RIGID PVC    |
| 3                 | JAMB (703)*                                                                                    | RIGID PVC    |
| 4                 | SILL (702)*                                                                                    | RIGID PVC    |
| 5                 | STILE (708)*                                                                                   | RIGID PVC    |
| 6                 | KEEPER RAIL (707)*                                                                             | RIGID PVC    |
| 7                 | LOCK RAIL (706)*                                                                               | RIGID PVC    |
| 8                 | BOTTOM LIFT RAIL (705)*                                                                        | RIGID PVC    |
| 9                 | PULL RAIL (715)*                                                                               | RIGID PVC    |
| 11                | SASH LOCK                                                                                      | -            |
| 12                | KEEPER                                                                                         | -            |
| 14                | LOCK RAIL REINFORCEMENT (948)                                                                  | COMPOSITE    |
| 15                | STILE/RAIL REINFORCEMENT (952)                                                                 | COMPOSITE    |
| 19                | SILL RISER (719)*                                                                              | RIGID PVC    |
| 20                | JAMB REINFORCEMENT (970)                                                                       | STEEL        |
| 21                | MULLION ANCHOR BRACKET (5950)                                                                  | 6063-T5 ALUM |
| 22                | MULLION (5901)                                                                                 | 6063-T5 ALUM |
| 23                | MULLION COVER (5980)*                                                                          | RIGID PVC    |
| 24                | BULB GASKET (AMESBURY)                                                                         | FOAM         |
| 25                | J-CHANNEL REINFORCEMENT (975IP)                                                                | STEEL        |
| 30                | #8 FH SMS (1-3/8" MIN. EMBEDMENT)                                                              | STEEL        |

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



### **G1** GLAZING DETAIL

[illegible]