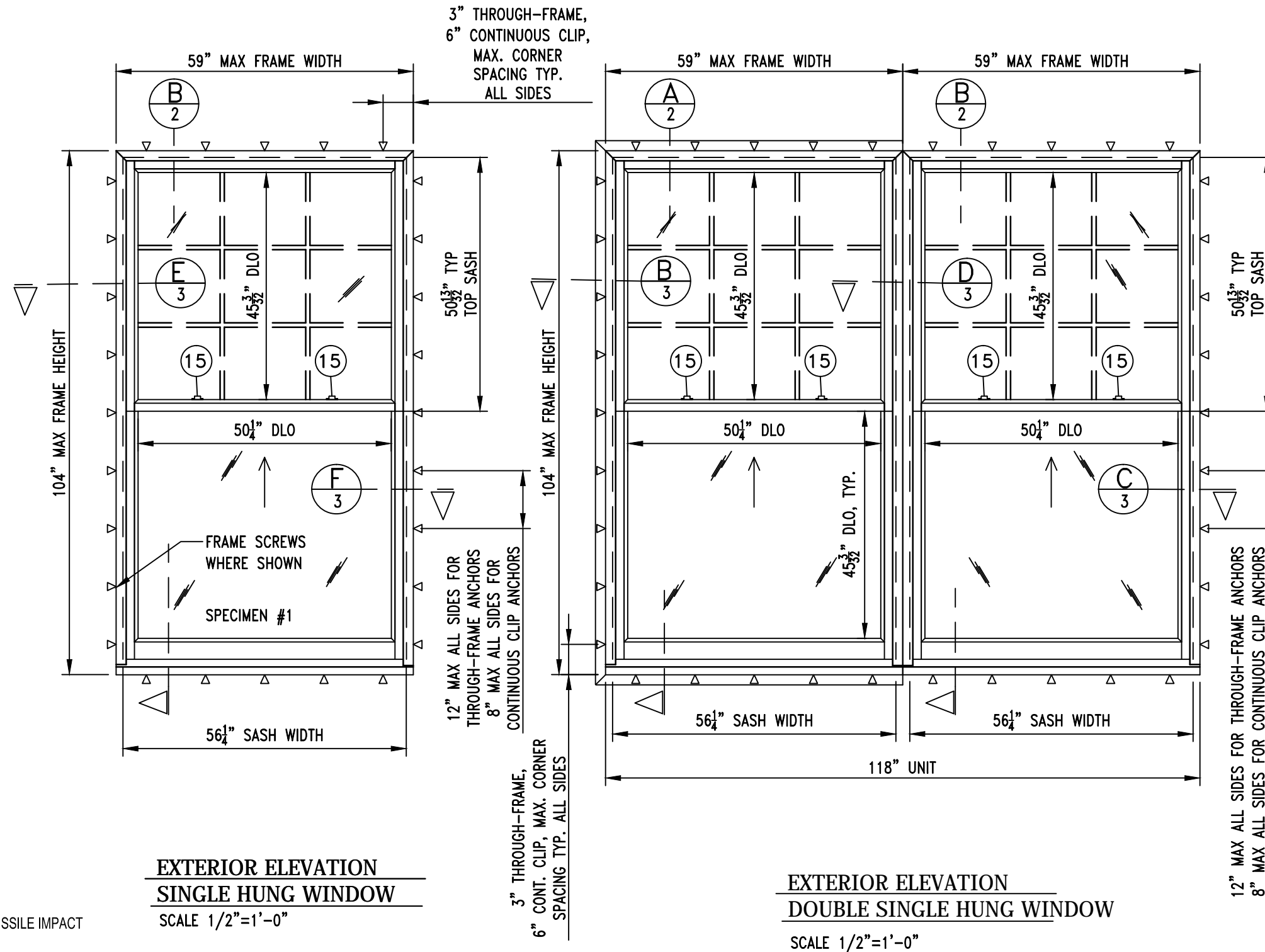


# BORGZINNER WOOD AMERICAN SINGLE HUNG WINDOWS

LARGE AND SMALL MISSILE IMPACT RESISTANT  
DESIGN PRESSURE RATING = + 60.0 PSF  
- 60.0 PSF



**EXTERIOR ELEVATION  
SINGLE HUNG WINDOW**

SCALE 1/2"=1'-0"

**EXTERIOR ELEVATION  
DOUBLE SINGLE HUNG WINDOW**

SCALE 1/2"=1'-0"

### CORNER CONSTRUCTION

**FRAME:** VERTICAL MEMBERS ARE RABBETED AND JOINED TO HORIZONTAL MEMBERS WITH OF 3 EACH # 10 X 2 1/2" X ST. STL. SCREWS AND GLUED WITH WEST SYSTEM 205

**SASH:** CONSTRUCTED USING 3 FINGER JOINTS AND HELD TOGETHER WEST SYSTEM 205 GLUE

### GENERAL NOTES:

1. THIS PRODUCT, FABRICATED AND ANCHORED AS DETAILED IN THIS DRAWING, IS LARGE MISSILE IMPACT RESISTANT AND DOES NOT REQUIRE THE USE OF SHUTTERS.
2. THIS PRODUCT HAS BEEN TESTED TO TAS 201-94, TAS 202-94, AND TAS 203-94, AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 6TH EDITION (2017), INCLUDING THE HIGH VELOCITY HURRICANE ZONE.
3. ALLOWABLE CONFIGURATIONS: O/X (SINGLE WINDOW), OR O/X-O/X (TWIN WINDOW)
4. THE DESIGN PRESSURE RATINGS IN THIS DRAWING ARE AS LIMITED BY ASTM E-1300 04E01/09 GLASS TABLES, AND TESTED PRESSURES.
5. THE 4/3 ALLOWABLE STRESS INCREASE HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.
6. INSTALLATION OF WOOD BUCKS TO THE SUBSTRATE TO BE ENGINEERED BY OTHERS OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGN & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
7. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED PER FBC TO PREVENT GALVANIC REACTIONS.
8. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
9. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
10. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING APPLIED LOADS FROM THE PRODUCTS TO THE OPENING SUBSTRATES. SHIM EACH ANCHOR LOCATION WHERE GAP GREATER THAN 1/16" EXISTS BETWEEN PRODUCT FRAME AND OPENING SUBSTRATE.
11. ALL BORGZINNER WOOD FRAMING TO BE SAPELLE WITH MIN. SPECIFIC GRAVITY OF 0.46

### TABLE OF CONTENTS:

| SHEET | DESCRIPTION               |
|-------|---------------------------|
| 1     | GEN. NOTES, ELEV.,        |
| 2     | VERTICAL SECTIONS         |
| 3     | HORIZ. SECTIONS           |
| 4     | PROFILE DRAWINGS, JOINERY |
| 5     | BILL OF MATERIALS         |



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8/17/18  
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WOOD AMERICAN  
SINGLE HUNG WINDOWS

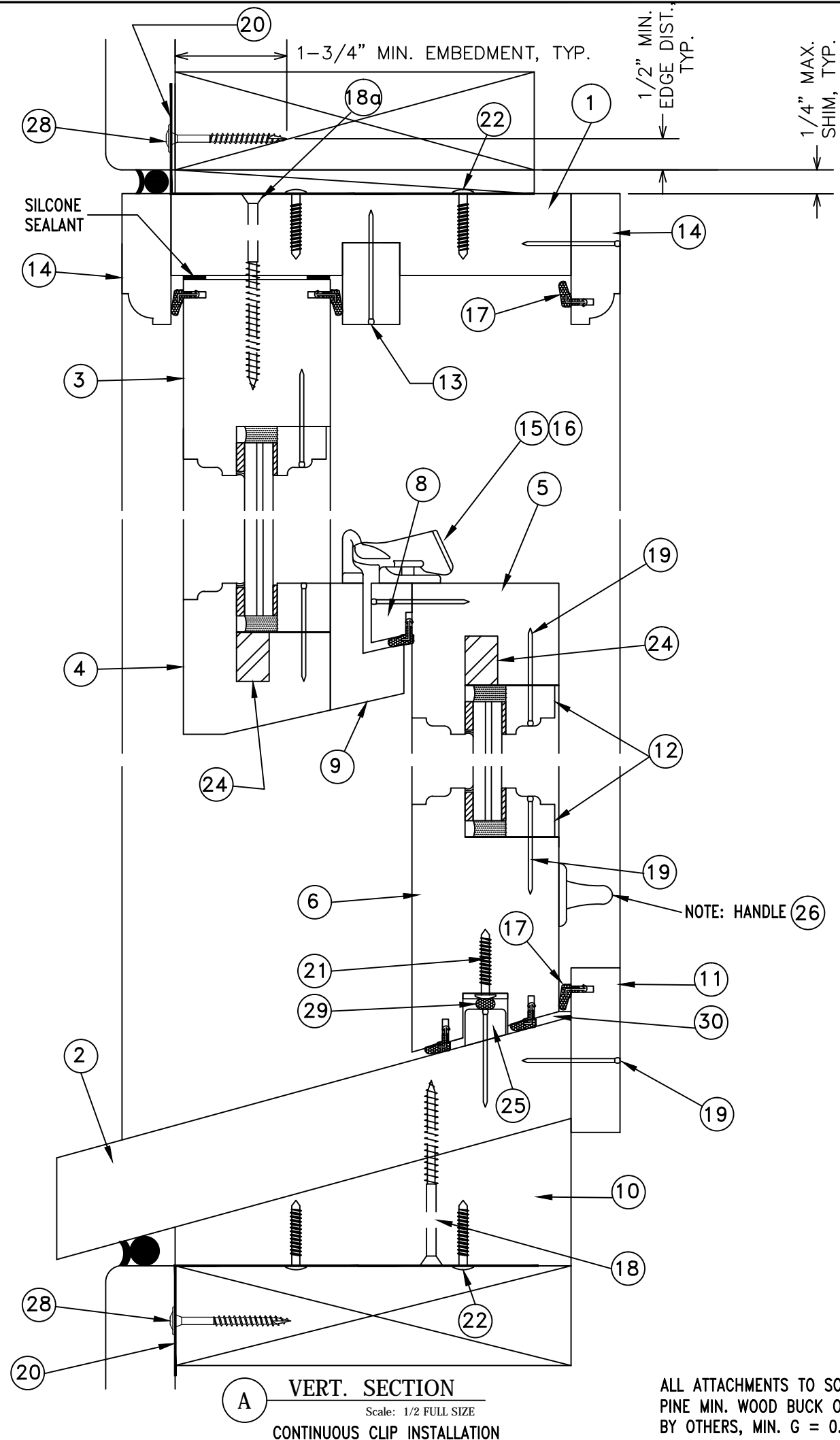
LUCAS A. TURNER, FL PE # 58201  
TURNER ENGINEERING & CONSULTING, INC.  
(FBPE COA # 29779)  
2428 OLD NACHEZ TRC. TR.L.  
CAMDEN, TN 38320 PH. 941-380-1574

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|           | 0     | 8/17/2018 | ORIGINAL RELEASE |

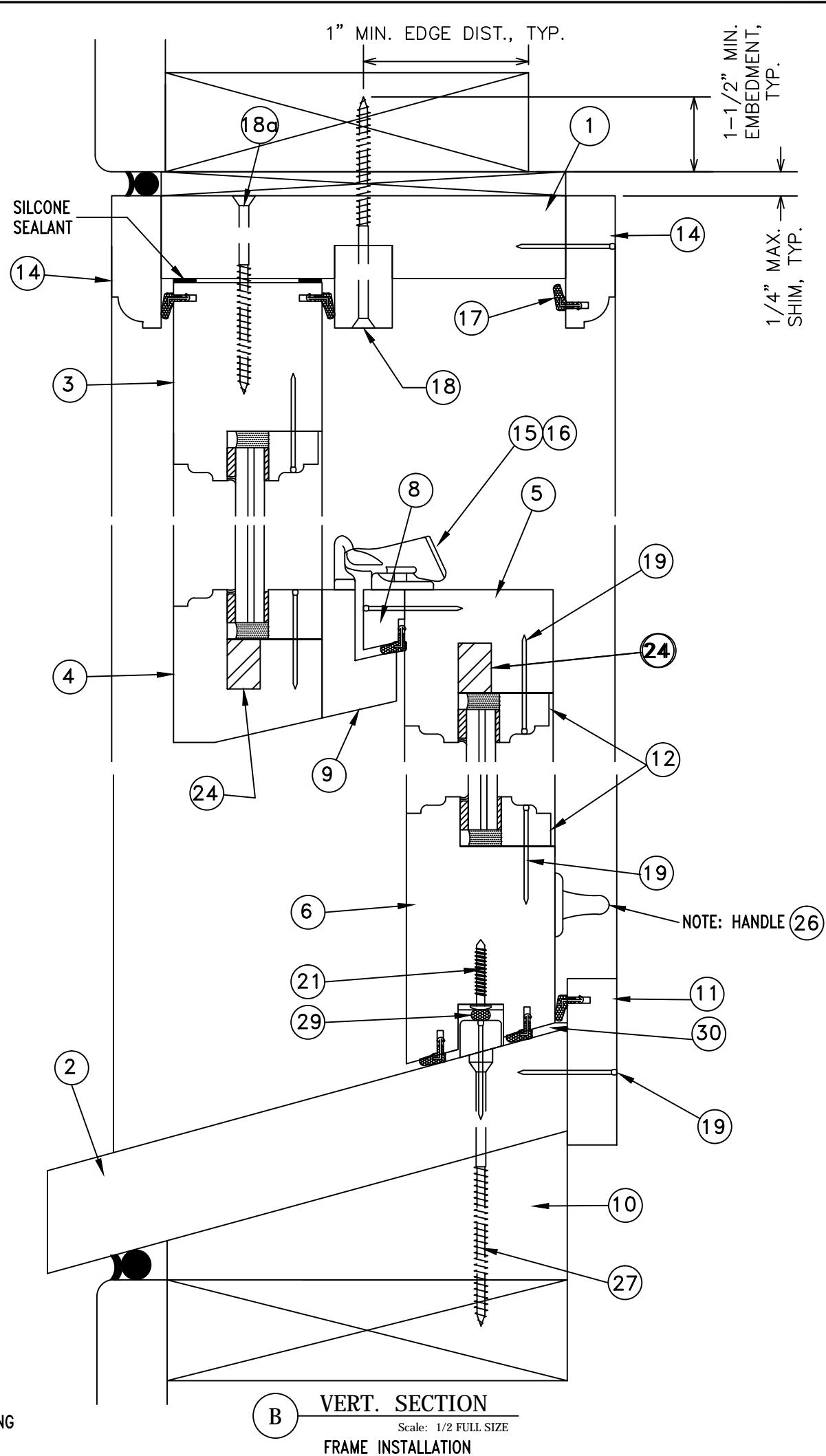
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| <b>DRAWN BY:</b> | <b>DATE</b> |
| <b>LJ</b>        | 12/02/16    |

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FPA-AMERICAN-SH

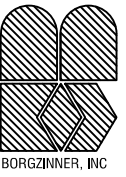
**SHEET NO.** 1 of 5



ALL ATTACHMENTS TO SOUTHERN PINE MIN. WOOD BUCK OR FRAMING BY OTHERS, MIN. G = 0.55



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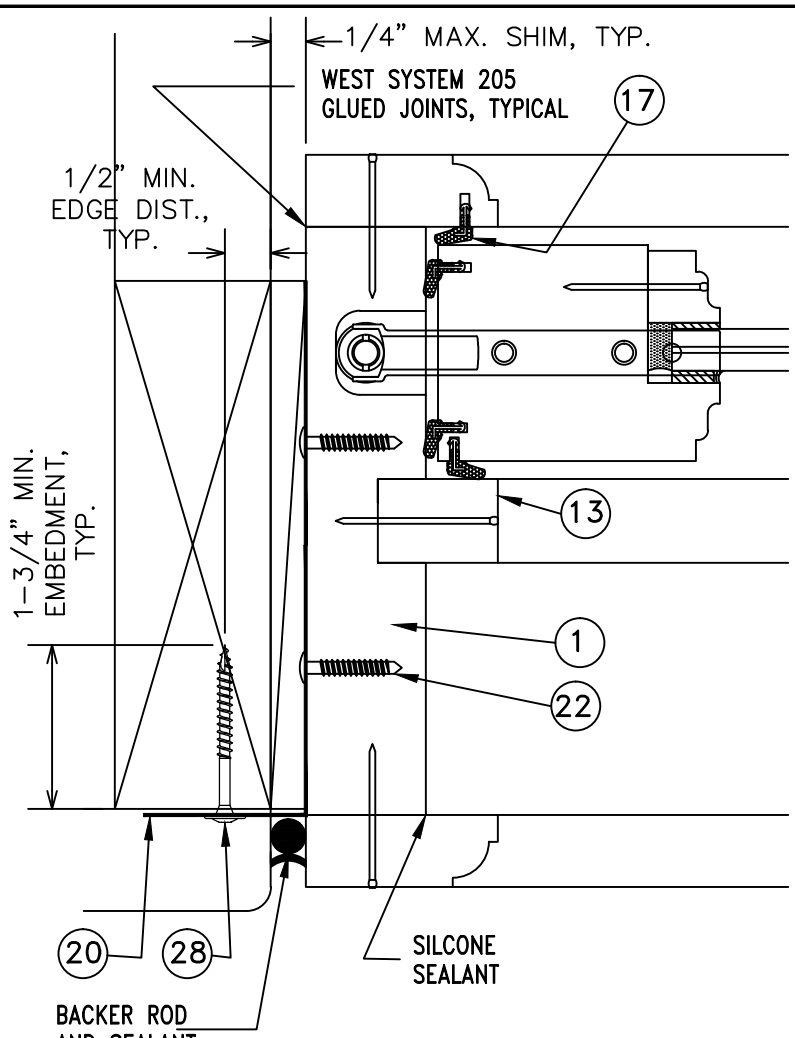
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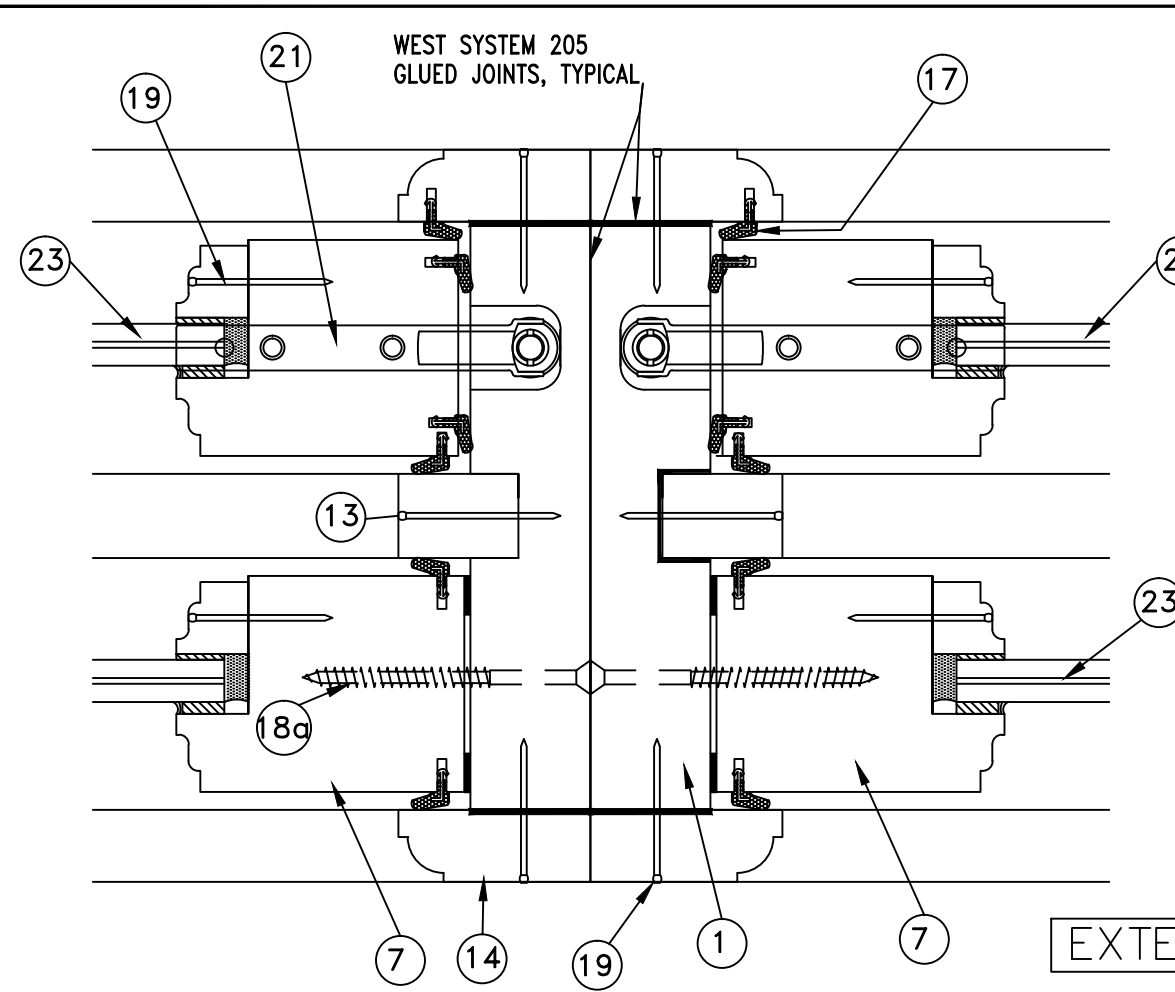
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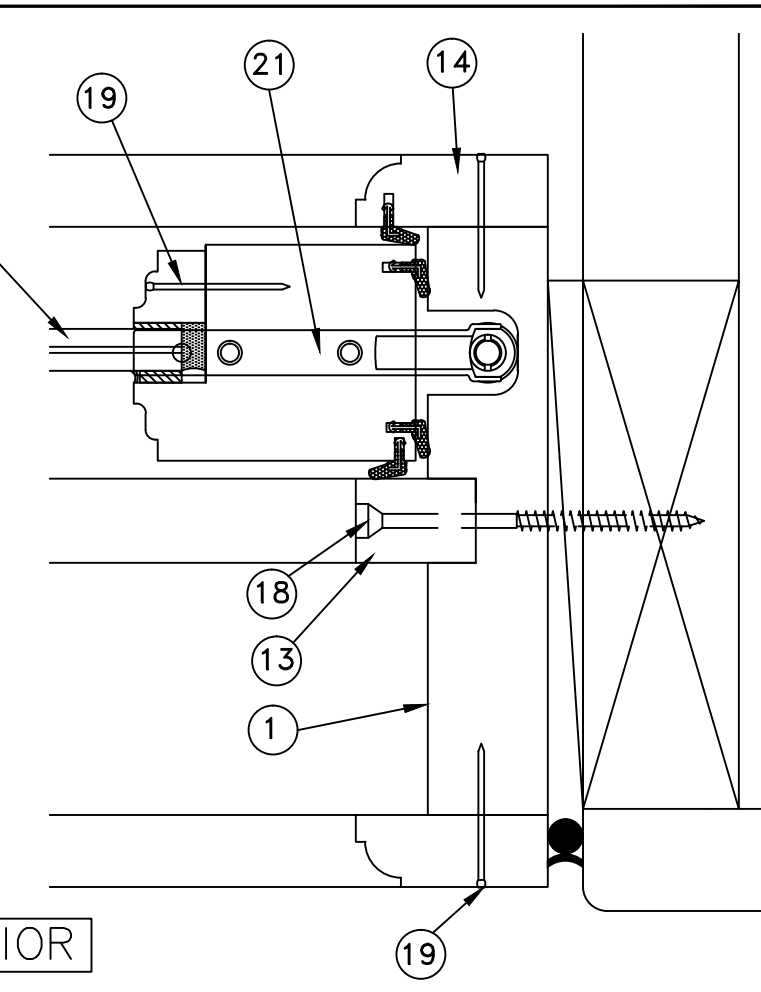
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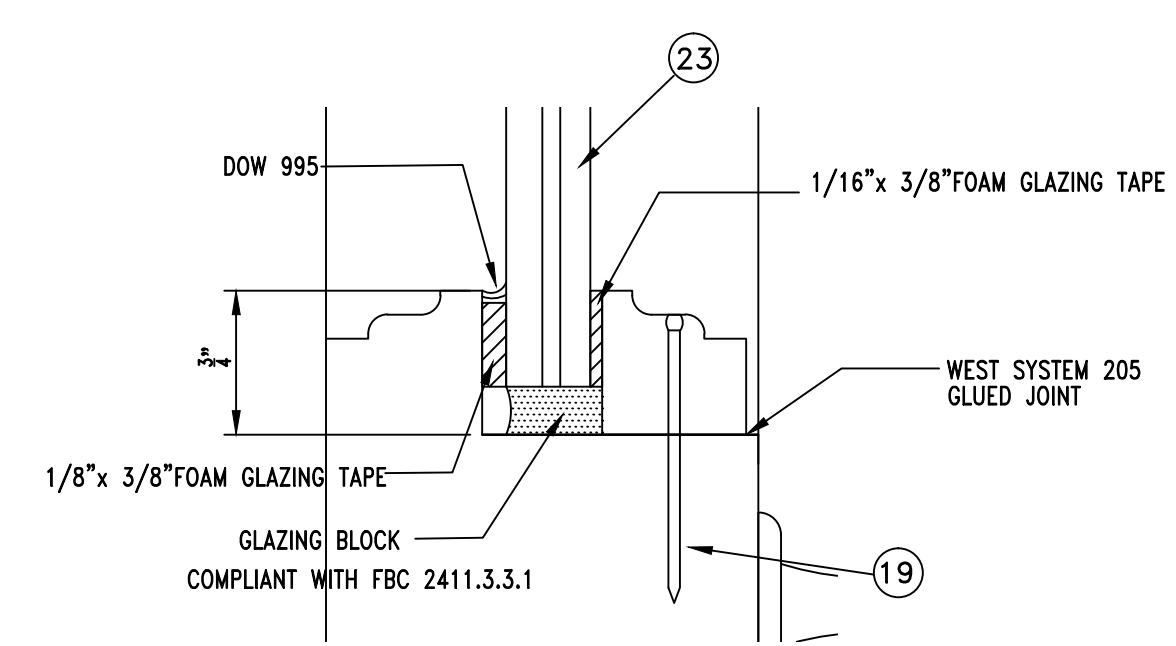
**B PLAN SECTION**  
Scale: 1/2 FULL SIZE  
OPTIONAL CONTINUOUS CLIP INSTALLATION



**D PLAN SECTION**  
Scale: 1/2 FULL SIZE

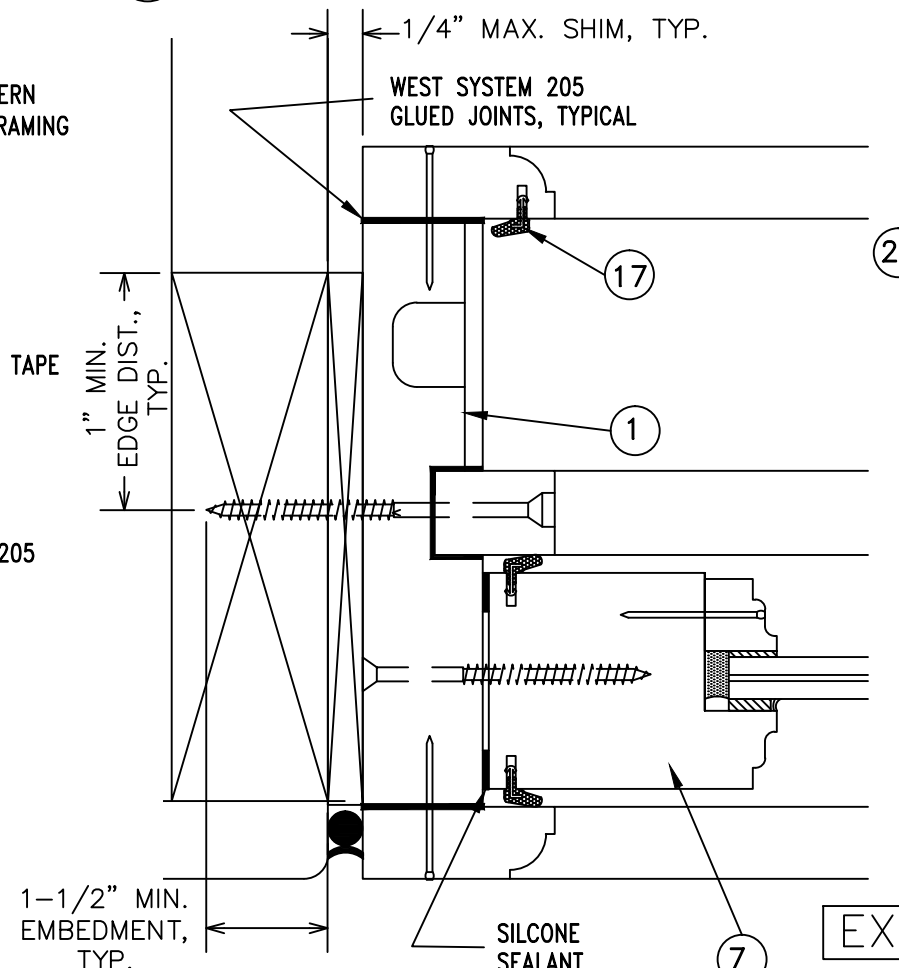


**C PLAN SECTION**  
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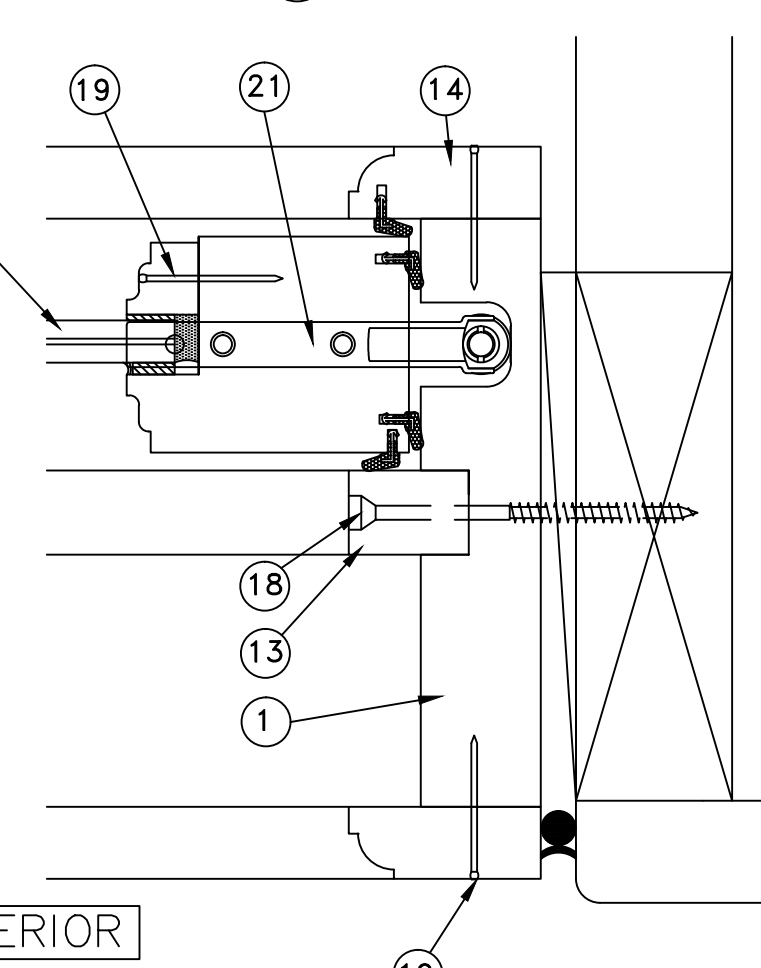


**1 GLAZING DETAIL**  
Scale: FULL SIZE

ALL ATTACHMENTS TO SOUTHERN PINE MIN. WOOD BUCK OR FRAMING BY OTHERS, MIN. G = 0.55



**E PLAN SECTION**  
Scale: 1/2 FULL SIZE



**F PLAN SECTION**  
Scale: 1/2 FULL SIZE

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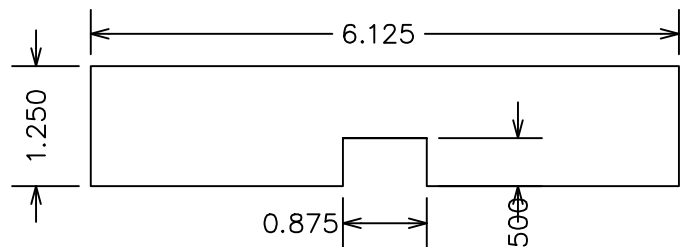
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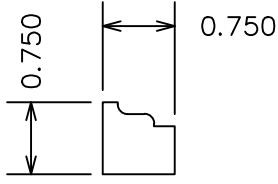
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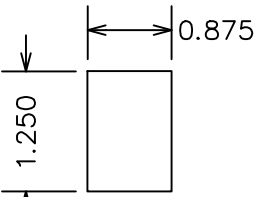
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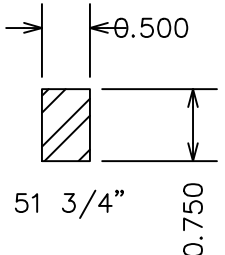
1 HEAD & SIDE JAMB  
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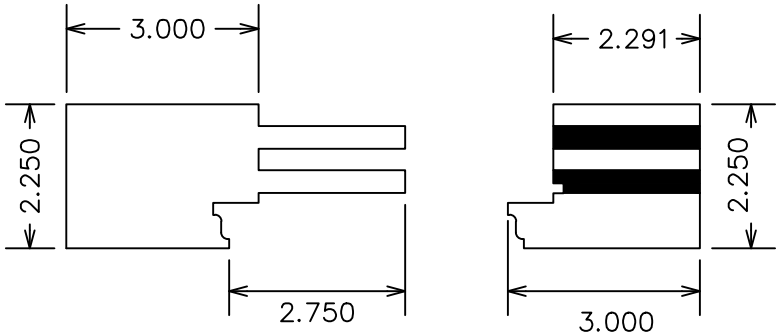
12 GLAZING BEAD  
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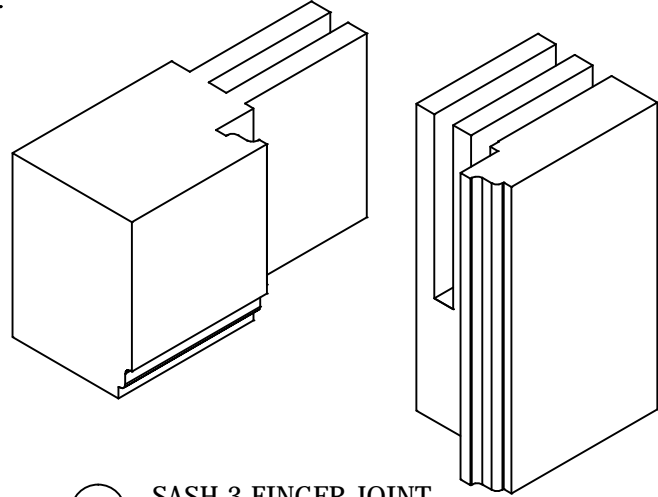
13 PARTING STOP  
Scale: 1/2 FULL SIZE



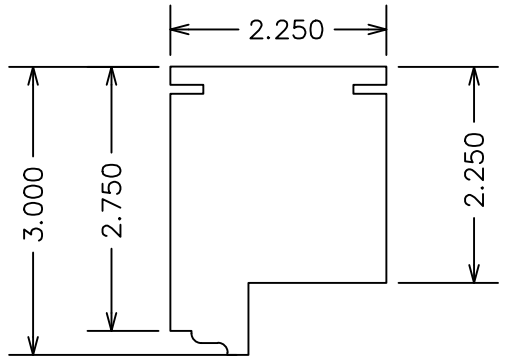
24 SASH REINFORCING  
Scale: 1/2 FULL SIZE  
LENGHT 51 3/4"



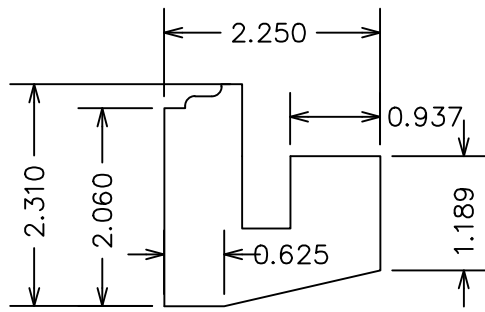
JOINT SEALED AND GLUED WITH SYSTEM 205



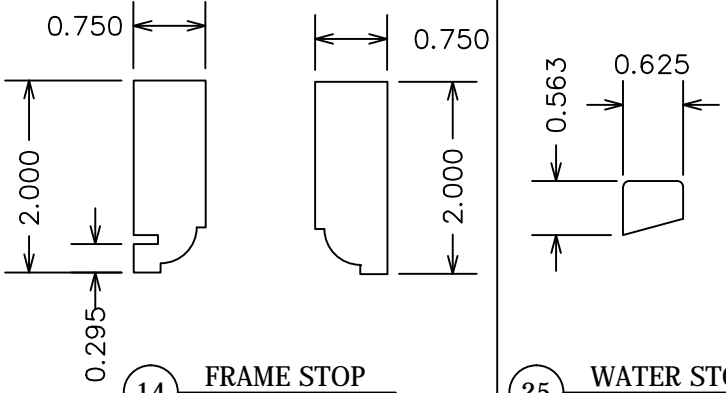
20 SASH 3 FINGER JOINT



3 TOP RAIL (TOP SASH)  
Scale: 1/2 FULL SIZE

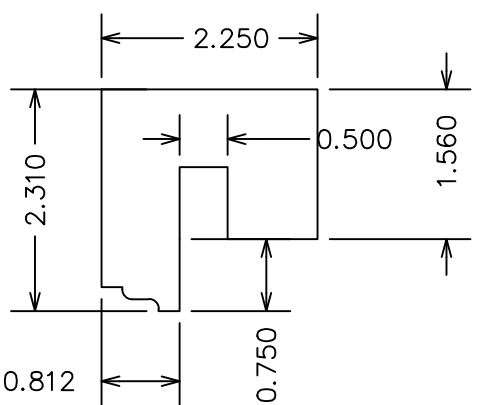


4 BOTTOM RAIL (TOP SASH)  
Scale: 1/2 FULL SIZE

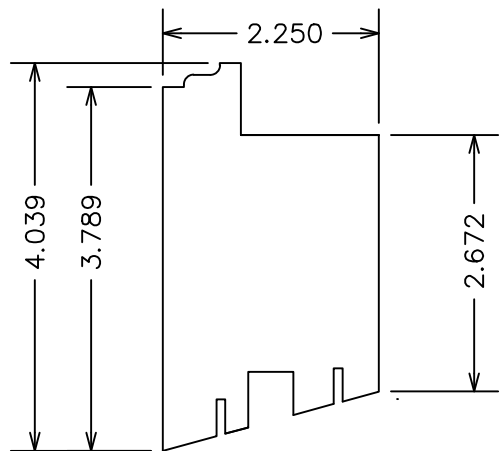


14 FRAME STOP  
Scale: 1/2 FULL SIZE

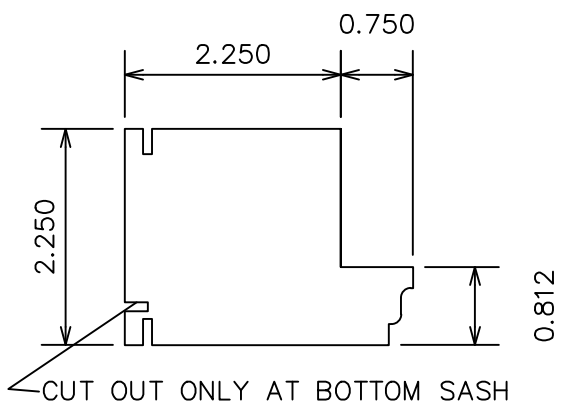
25 WATER STOP  
Scale: 1/2 FULL SIZE



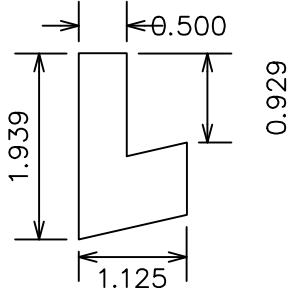
5 TOP RAIL (BOTTOM SASH)  
Scale: 1/2 FULL SIZE



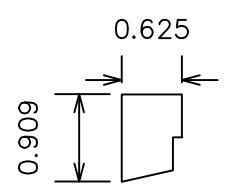
6 BOTTOM RAIL (BOTTOM SASH)  
Scale: 1/2 FULL SIZE



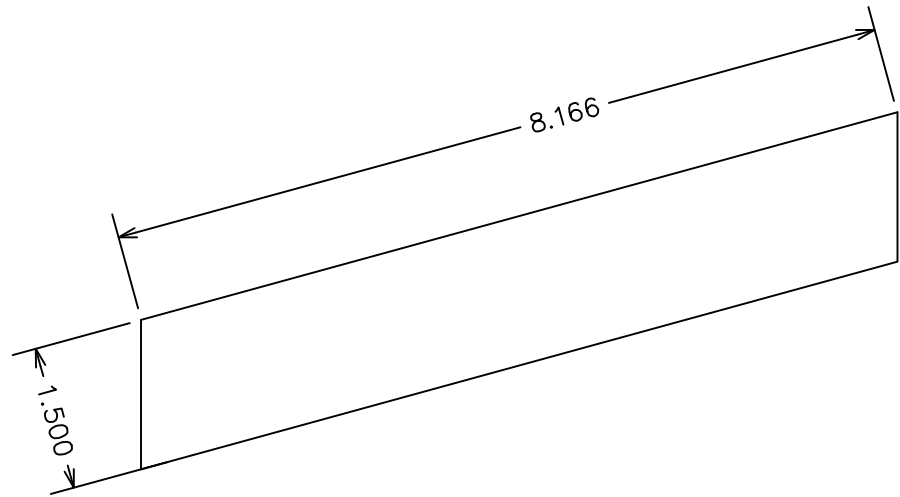
7 STILE (TOP AND BOTTOM SASH)  
Scale: 1/2 FULL SIZE



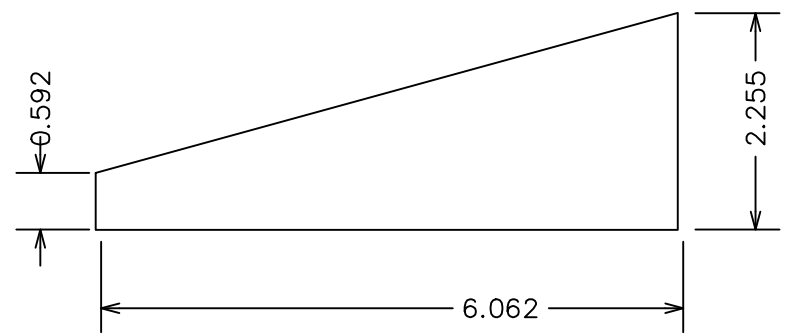
9 PARTING TOP STOP  
Scale: 1/2 FULL SIZE



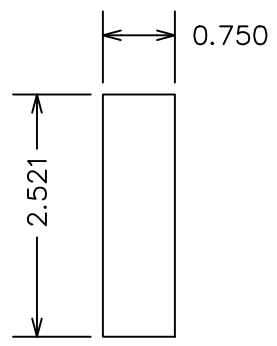
8 PARTING BOTTOM SASH STOP  
Scale: 1/2 FULL SIZE



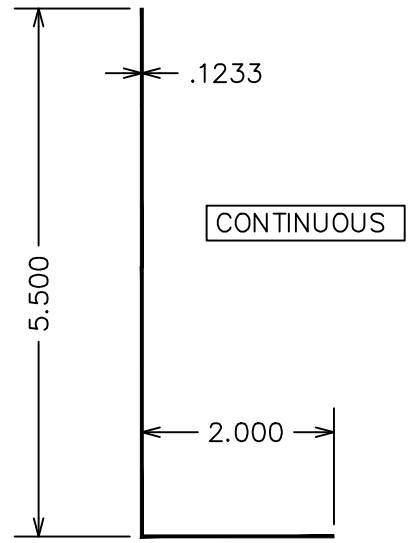
2 SILL  
Scale: 1/2 FULL SIZE



10 SUB SILL  
Scale: 1/2 FULL SIZE



11 SILL STOP  
Scale: 1/2 FULL SIZE



20 ATTACHMENT CLIP  
Scale: 1/2 FULL SIZE



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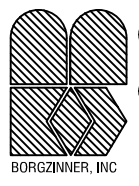
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SHEET NO. **4 of 5**

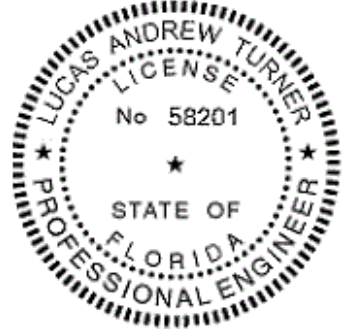
| NO. | ITEM DESCRIPTION                       | MATERIAL / MANUFACTURER                                    |  |  |  |
|-----|--|--|--|--|--|
|     |  |  | 27   | NO. 10 X 4 1/2" S.S WOOD SCREWS          | STARTING 3" FROM ENDS THEN 12" MAX O/C |
| 1   | SIDE AND HEAD JAMB                     | SAPELE WOOD  | 28   | #8 X 2" PLATED PAN HEAD SCREWS           | 6" FROM ENDS AND 8" MAX ON CENTER      |
| 2   | SILL                                   | SAPELE WOOD  | 29   | 3/16 X 3/8" FOAM WINDOW SEAL             | MD PRODUCT                             |
| 3   | TOP SASH TOP RAIL                      | SAPELE WOOD  | 30   | 3/8 X 7/8" X 3/16" TH RUBBER WINDOW SEAL | MD PRODUCT                             |
| 4   | TOP SASH BOTTOM RAIL                   | SAPELE WOOD  | ALL SINGLE HUNG WOOD FRAMING SHALL BE SG=0.46 (E=1,600,00 PSI) |  |  |
| 5   | BOTTOM SASH TOP RAIL                   | SAPELE WOOD  |  |  |  |
| 6   | BOTTOM SASH BOTTOM RAIL                | SAPELE WOOD  |  |  |  |
| 7   | STILE (TOP AND BOTTOM SASH)            | SAPELE WOOD  |  |  |  |
| 8   | PARTING STOP (BOTTOM SASH)             | SAPELE WOOD  |  |  |  |
| 9   | PARTING STOP (TOP SASH)                | SAPELE WOOD  |  |  |  |
| 10  | SUB SILL                               | SAPELE WOOD  |  |  |  |
| 11  | SILL STOP                              | SAPELE WOOD  |  |  |  |
| 12  | GLAZING BEAD                           | SAPELE WOOD  |  |  |  |
| 13  | PARTING STOP                           | SAPELE WOOD  |  |  |  |
| 14  | FRAME STOP                             | SAPELE WOOD  |  |  |  |
| 15  | LOCK                                   | WLS9U-US26D BRASS LOCK                                     |  |  |  |
| 16  | LOCK KEEPER                            | WLS9U-US26D BRASS LOCK KEEPER                              |  |  |  |
| 17  | WEATHER SEAL                           | SCHLEGEL QL-3037   |  |  |  |
| 18  | NO. 10 X 3 1/2" S.S WOOD SCREWS        | STARTING 3" FROM ENDS THEN 12" MAX O/C<br>1 1/2" MIN EMBED |  |  |  |
| 18A | NO. 10 X 3" S.S WOOD SCREWS            | FIX SASH FASTENER  |  |  |  |
| 19  | 18GA X 1 1/2" BRAD NAILS               | STARTING 2" FROM ENDS THEN 8" MAX O/C                      |  |  |  |
| 20  | .1233 CONTINUOUS ALUM ATTACHMENT CLIPS | ANCHOR SPACING AS SHOWN ON ELEVATION                       |  |  |  |
| 21  | BALANCE                                | BLAINE ULTRA - LIFT BALANCE                                |  |  |  |
| 22  | #8 X 1" PLATED PAN HEAD SCREWS         | 6" FROM ENDS AND 8" MAX ON CENTER                          |  |  |  |
| 23  | 7/16" GLASS HEAT STRENGTHEN            | LAMINATED, (3/16" HS / 0.090" SGP/ 3/16" HS                |  |  |  |
| 24  | STEEL REINFORCING FOR SASH             | AT TOP AND BOTTOM SASH LENGTH AS REQUIRED                  |  |  |  |
| 25  | WATER STOP                             | SAPELE WOOD  |  |  |  |
| 26  | WINDOW PULL                            | DELTANA 4" WP026U3   |  |  |  |
| 27  | NO. 10 X 4 1/2" S.S WOOD SCREWS        | STARTING 3" FROM ENDS THEN 12" MAX O/C<br>1 1/2" MIN EMBED |  |  |  |

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SHEET NO. **5 of 5**