

| REVISIONS |             |      |          |
|-----------|-------------|------|----------|
| REV       | DESCRIPTION | DATE | APPROVED |

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1–1/2” WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
5. WHERE WOOD BUCK THICKNESS IS 1–1/2” OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER’S PUBLISHED INSTALLATION INSTRUCTIONS.
6. WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
7. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. FOR FIN INSTALLATION SHIM AS NEEDED. FOR FRAME INSTALLATION SHIM AS REQUIRED AT EACH ANCHOR LOCATION WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16” OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4”.
9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
11. FRAME MATERIAL: EXTRUDED RIGID PVC.
12. UNITS MUST BE GLAZED PER ASTM E1300–04.
13. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
14. FOR ANCHORING THROUGH FIN INTO WOOD FRAMING OR 2X BUCK USE #8 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/2” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/8” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 3/16” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
17. FOR ANCHORING THROUGH FRAME INTO METAL STRUCTURE USE #10 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
18. ALL FASTENERS TO BE CORROSION RESISTANT.
19. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER’S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:

A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42

B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.

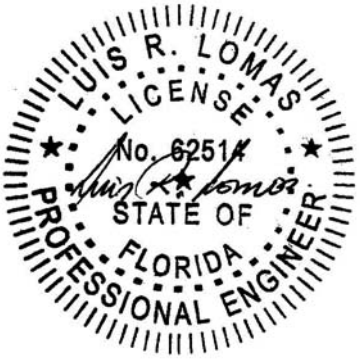
C. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).

D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063–T5 1/8” THICK MINIMUM

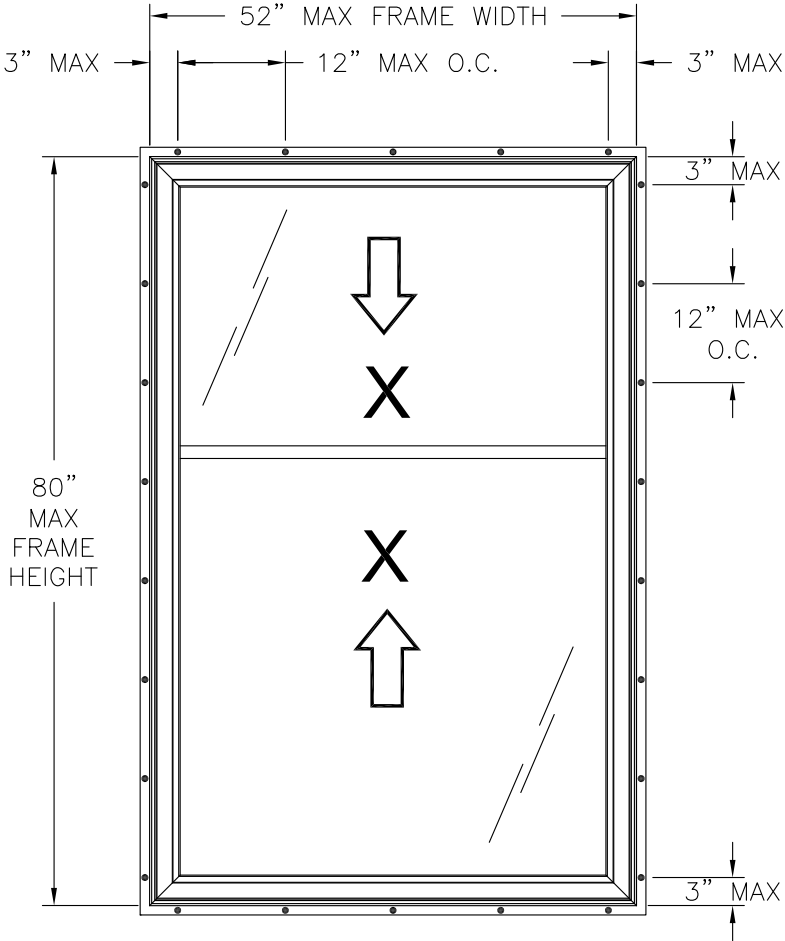
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| TABLE OF CONTENTS |                                |
|-------------------|--------------------------------|
| SHEET NO.         | DESCRIPTION                    |
| 1                 | ELEVATION, ANCHORING AND NOTES |
| 2                 | CROSS SECTIONS AND B.O.M.      |
| 3 – 6             | INSTALLATION DETAILS           |

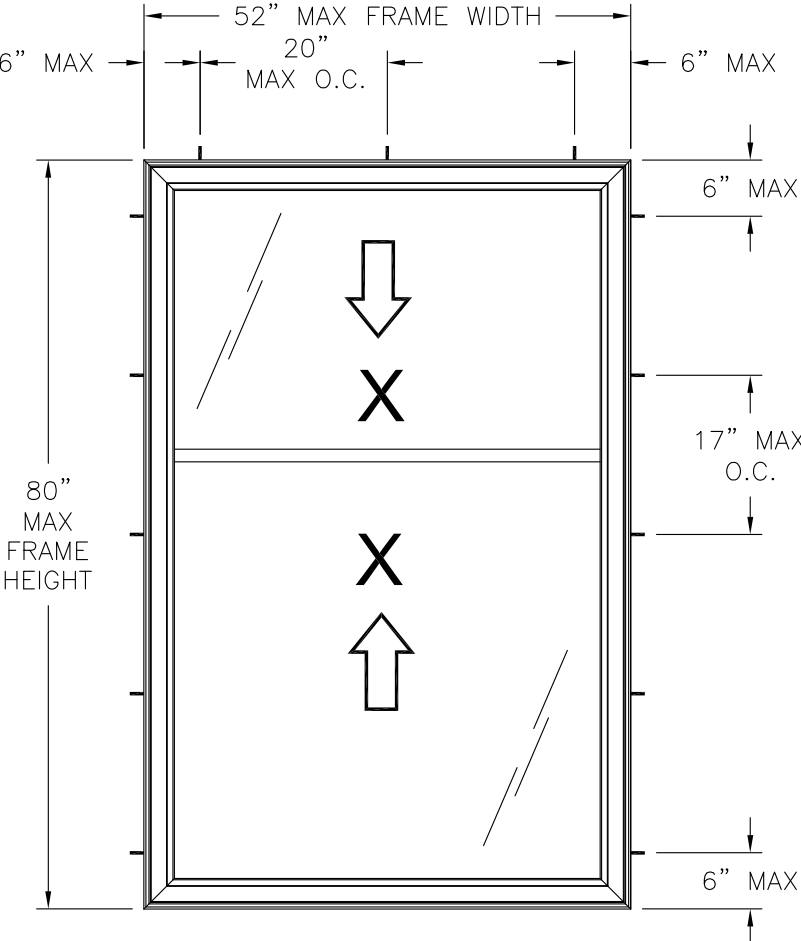
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| VIWINCO, INC.<br>MORGANTOWN BUSINESS PARK, P.O. BOX 499<br>MORGANTOWN, PA 19543           |                     |              |
| SIGNATURE/CAMBRIDGE REVERSE ORIEL DOUBLE HUNG<br>52” x 80” REINFORCED NON-IMPACT<br>NOTES |                     |              |
| DRAWN:<br>V.L.                                                                            | DWG NO.<br>08–02585 | REV<br>—     |
| SCALE<br>NTS                                                                              | DATE<br>01/20/15    | SHEET 1 OF 6 |



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**S-SERIES REVERSE ORIEL DOUBLE HUNG**  
EXTERIOR VIEW  
FIN INSTALLATION



**CAMBRIDGE REVERSE ORIEL DOUBLE HUNG**  
EXTERIOR VIEW  
FRAME INSTALLATION

| DESIGN PRESSURE RATING | IMPACT RATING |
|------------------------|---------------|
| $\pm 35.0$ PSF         | NONE          |

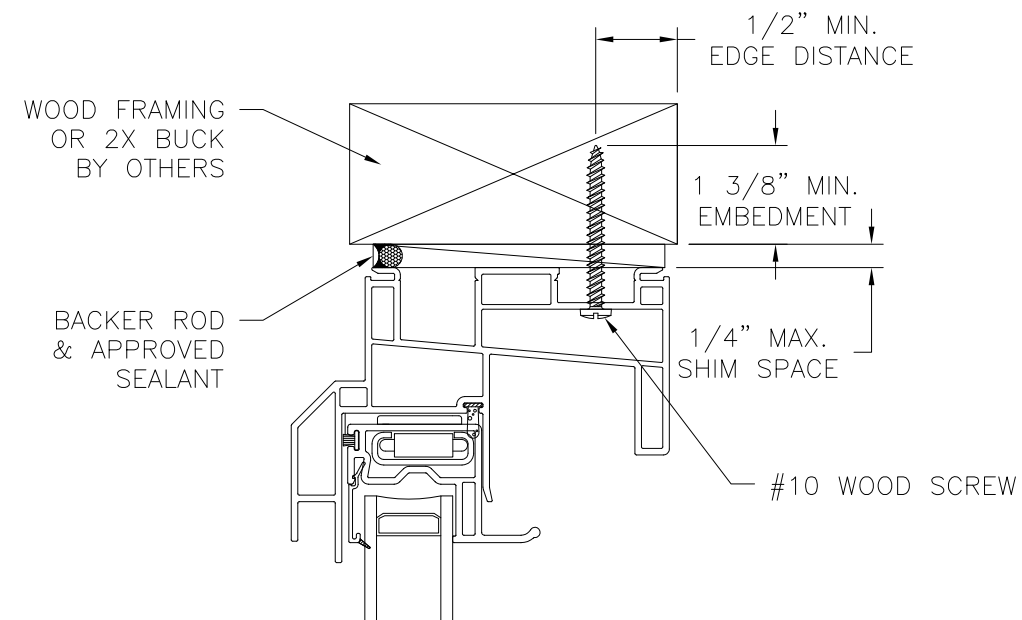
| HARDWARE SCHEDULE |                                                                                                |
|-------------------|------------------------------------------------------------------------------------------------|
| A.                | (2) METAL SWEEP LOCKS WITH KEEPERS 10" FROM EACH END OF INTERIOR MEETING RAIL                  |
| B.                | (4) VINYL TILT LATCHES AT EACH END OF EXTERIOR SASH AND TOP AND MEETING RAIL                   |
| C.                | (4) ZINC PIVOT BARS AT EACH END OF INTERIOR SASH AND BOTTOM AND MEETING RAIL                   |
| D.                | (2) NIGHT LATCHES 3" ABOVE MEETING RAIL ON SASH STILES                                         |
| E.                | ALUMINUM REINFORCEMENT ON ALL SASH STILES, BOTTOM RAIL AND INTERIOR AND EXTERIOR MEETING RAILS |

- NOTES:
- SLOPED SILL USED.
  - MAXIMUM INTERIOR SASH SIZE: 47 7/8" X 47 1/2"
  - MAXIMUM EXTERIOR SASH SIZE: 46 7/8" X 30 5/8"
  - MAXIMUM D.L.O.: 45 3/8" X 44 1/2"

|                                                                                                |                     |              |
|------------------------------------------------------------------------------------------------|---------------------|--------------|
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| SIGNATURE/CAMBRIDGE REVERSE ORIEL DOUBLE HUNG<br>52" x 80" REINFORCED NON-IMPACT<br>ELEVATIONS |                     |              |
| DRAWN:<br>V.L.                                                                                 | DWG NO.<br>08-02585 | REV<br>—     |
| SCALE NTS                                                                                      | DATE 01/20/15       | SHEET 2 OF 6 |

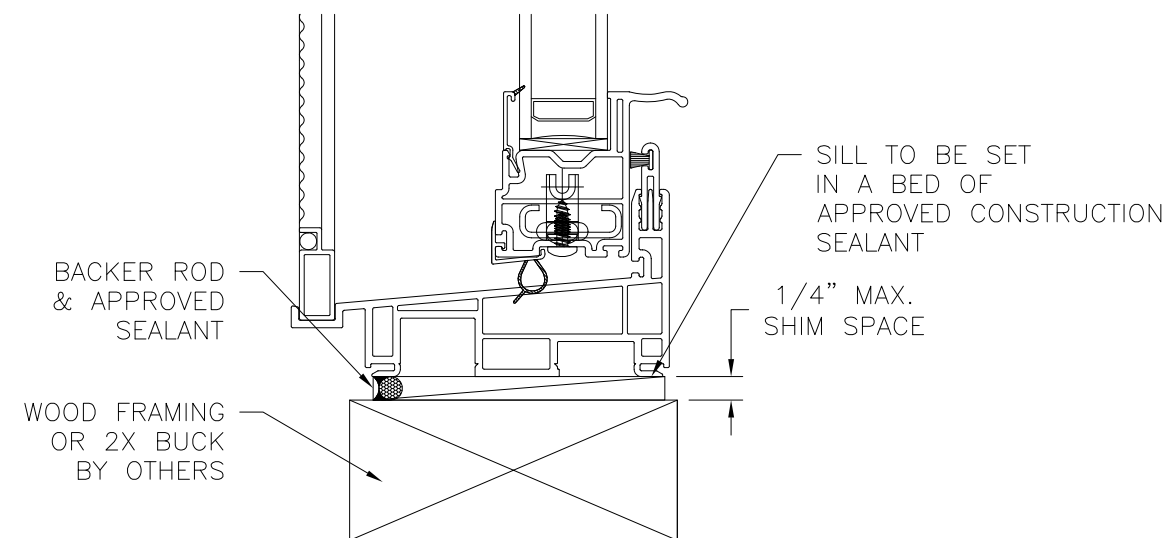
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EXTERIOR

INTERIOR

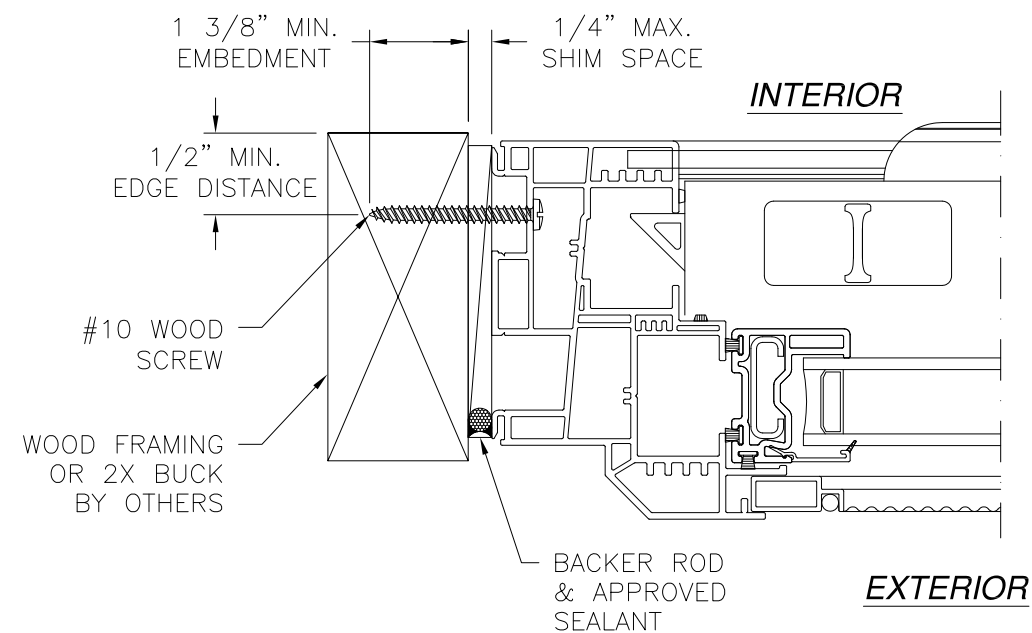


**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK INSTALLATION

**NOTES:**

1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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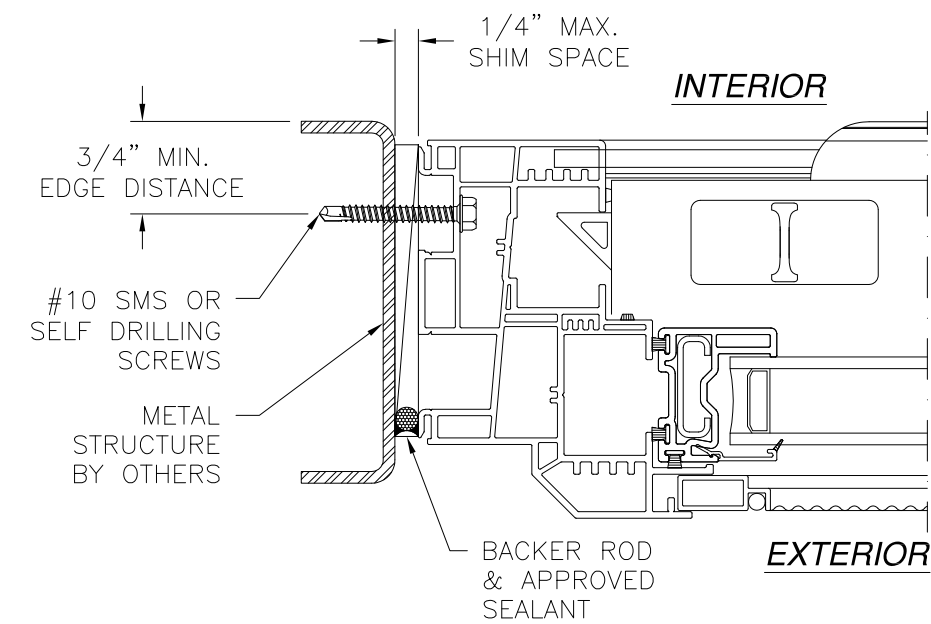
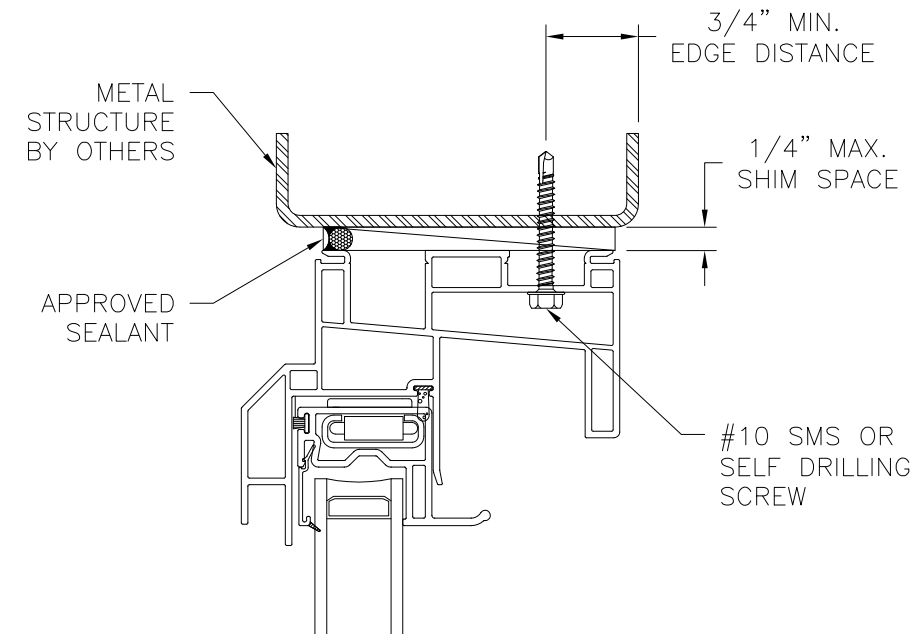


**JAMB INSTALLATION DETAIL**  
WOOD FRAMING OR 2X BUCK INSTALLATION

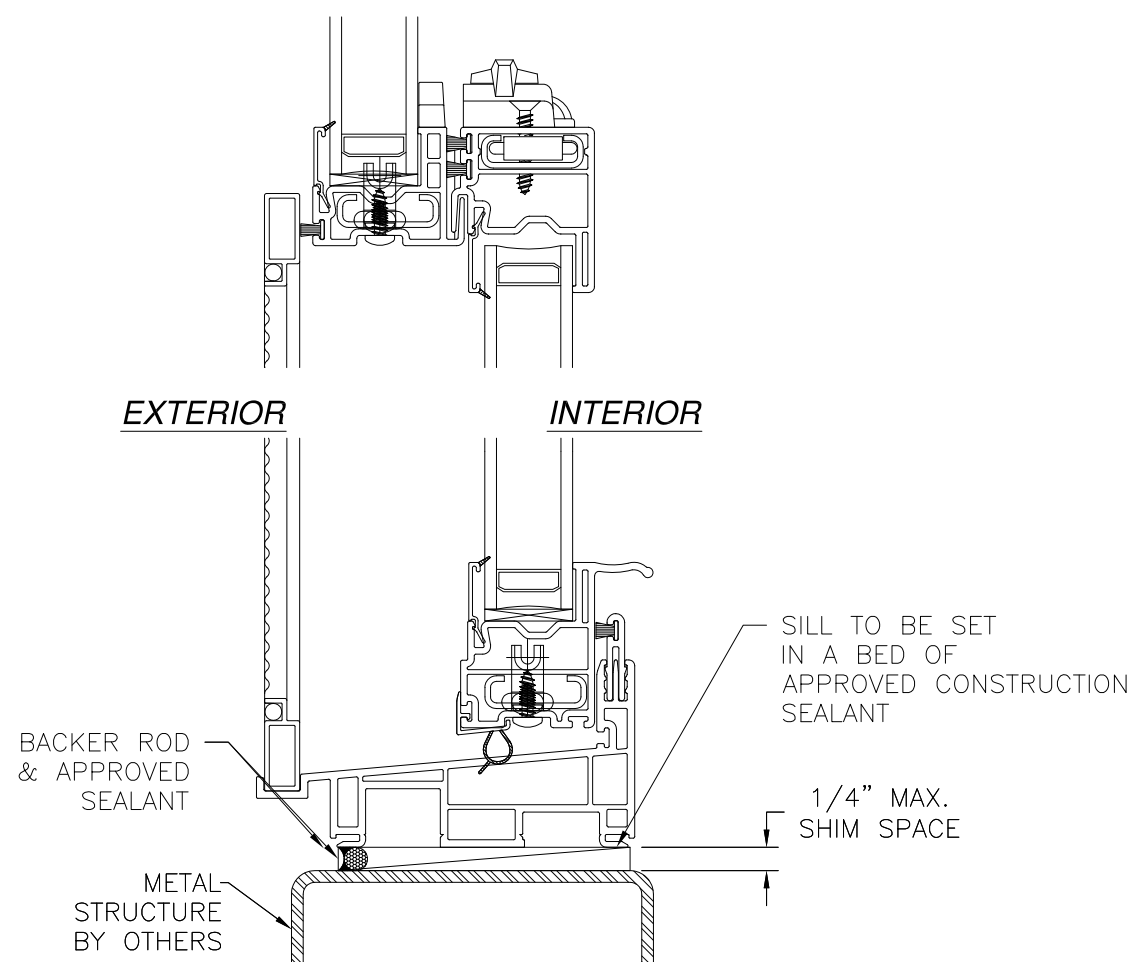
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| SIGNATURE/CAMBRIDGE REVERSE ORIEL DOUBLE HUNG<br>52" x 80" REINFORCED NON-IMPACT<br>FRAME INSTALLATION DETAILS |                     |              |  |
| DRAWN:<br>V.L.                                                                                                 | DWG NO.<br>08-02585 | REV<br>-     |  |
| SCALE NTS                                                                                                      | DATE 01/20/15       | SHEET 3 OF 6 |  |

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**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE INSTALLATION

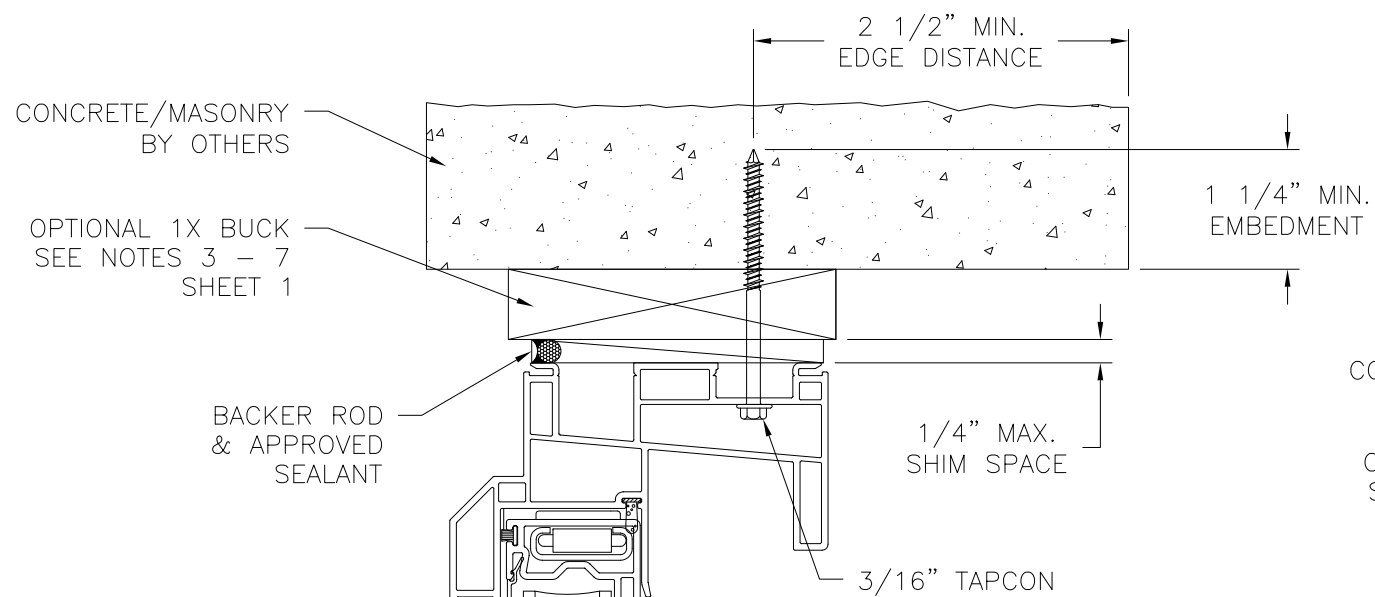


**VERTICAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION

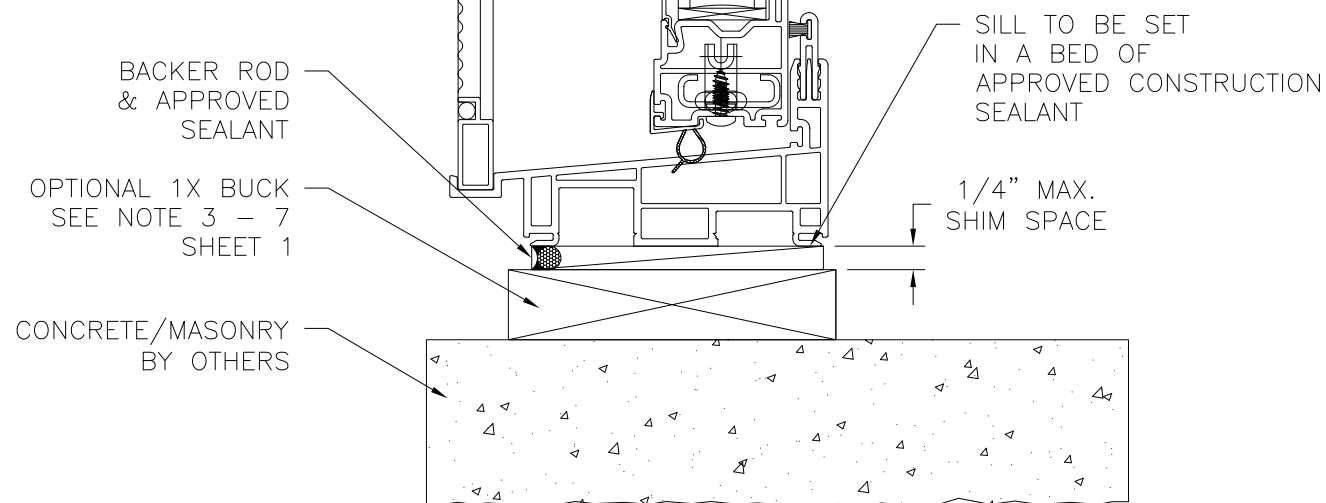
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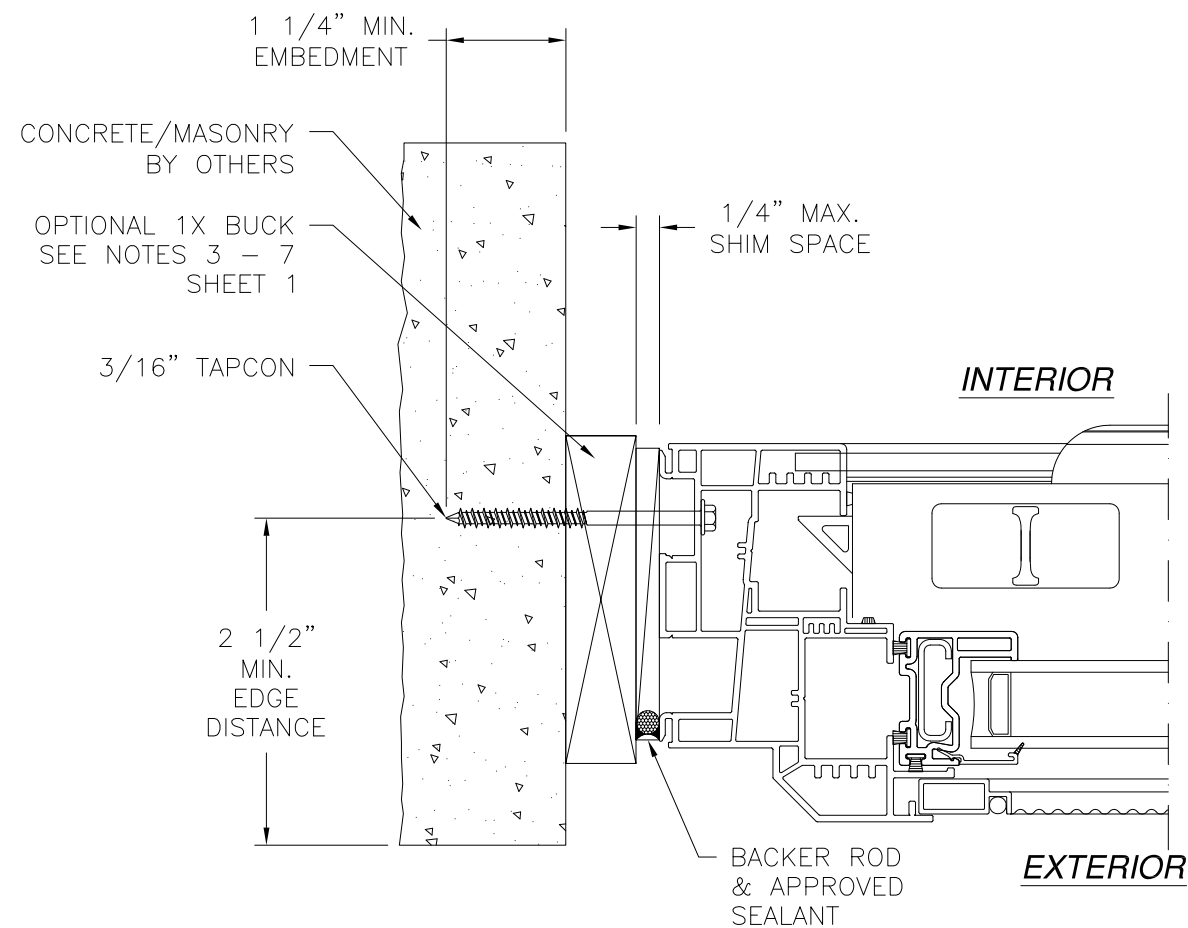
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| DRAWN:<br>V.L.                                                                                                 | DWG NO.<br>08-02585 | REV<br>-     |  |
| SCALE NTS                                                                                                      | DATE 01/20/15       | SHEET 4 OF 6 |  |



EXTERIOR INTERIOR



**VERTICAL CROSS SECTION**  
CONCRETE/MASONRY INSTALLATION



**JAMB INSTALLATION DETAIL**  
CONCRETE/MASONRY INSTALLATION

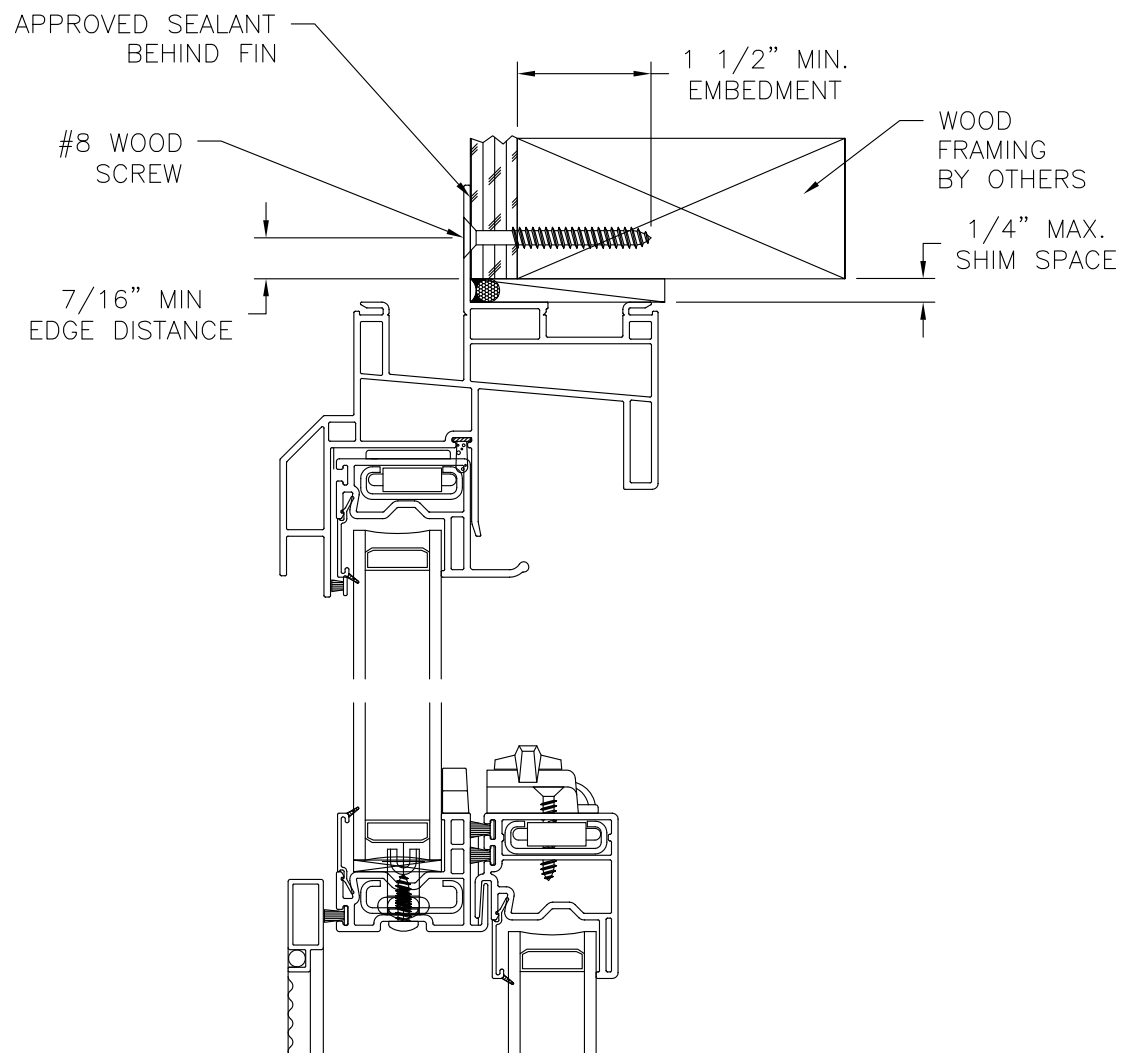
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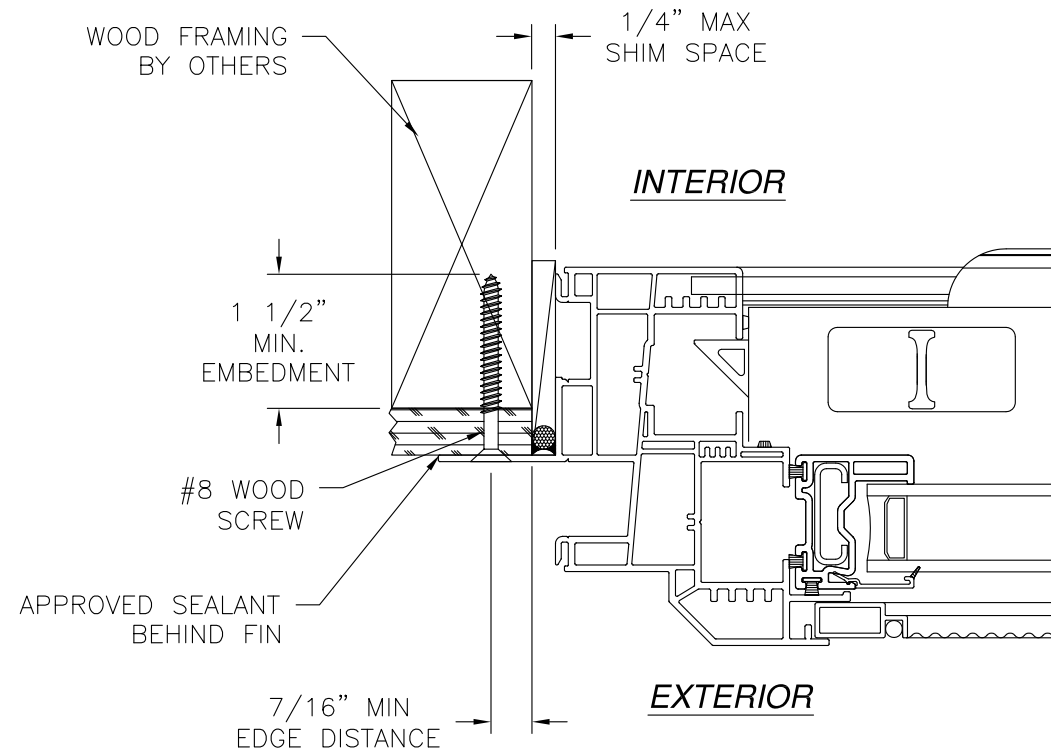
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| DRAWN:<br>V.L.                                                                                                 | DWG NO.<br>08-02585 | REV<br>—        |
| SCALE<br>NTS                                                                                                   | DATE<br>01/20/15    | SHEET<br>5 OF 6 |



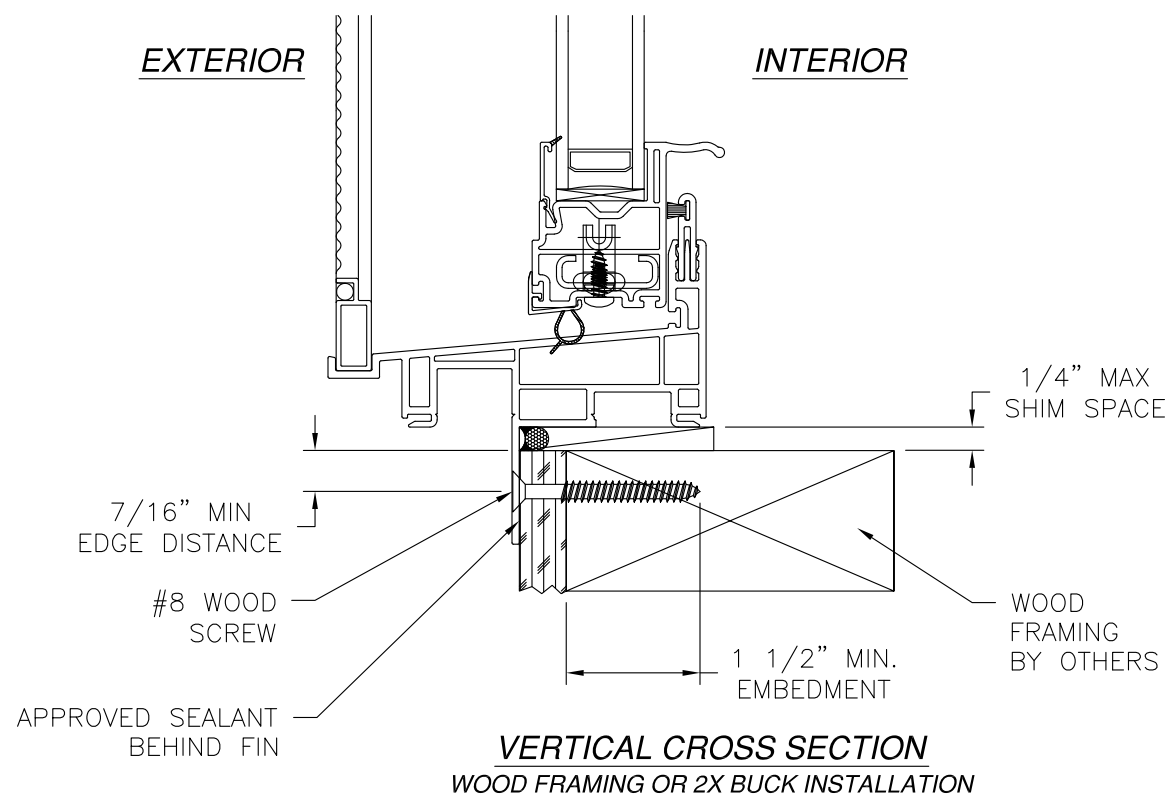


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**JAMB INSTALLATION DETAIL**  
WOOD FRAMING OR 2X BUCK INSTALLATION

- NOTES:
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| DRAWN:<br>V.L.                                                                                               | DWG NO.<br>08-02585 | REV<br>—     |
| SCALE NTS                                                                                                    | DATE 01/20/15       | SHEET 6 OF 6 |

