

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV       | DESCRIPTION     | DATE     | APPROVED |
| D         | REVISED DETAILS | 05/05/26 | R.L.     |

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, METAL STRUCTURE 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. 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.
4. 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.
5. 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.
6. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
7. 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 3/8.”
8. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
9. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
10. FRAME MATERIAL: EXTRUDED ALUMINUM 6063–T5.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 8 FOR GLASS DETAILS.
12. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING 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.
14. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING 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.
16. ALL FASTENERS TO BE CORROSION RESISTANT.
17. 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:
- 17.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
- 17.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
- 17.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, WITH Fm= 2,000 PSI.
- 17.4. METAL STRUCTURE: STEEL 18GA (.048”), 33KSI OR ALUMINUM 6063–T5 .125” THICK MINIMUM

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| 8                 | COMPONENTS AND GLAZING DETAIL       |

SOLAR INNOVATIONS, INC.  
31 ROBERTS RD  
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL HOPPER  
PROJECT-IN-TOP WINDOW IMPACT  
NOTES

DRAWN:  
N.G.

DWG NO.  
08–02920

REV  
D

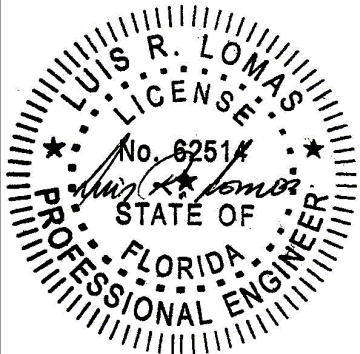
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SHEET 1 OF 6

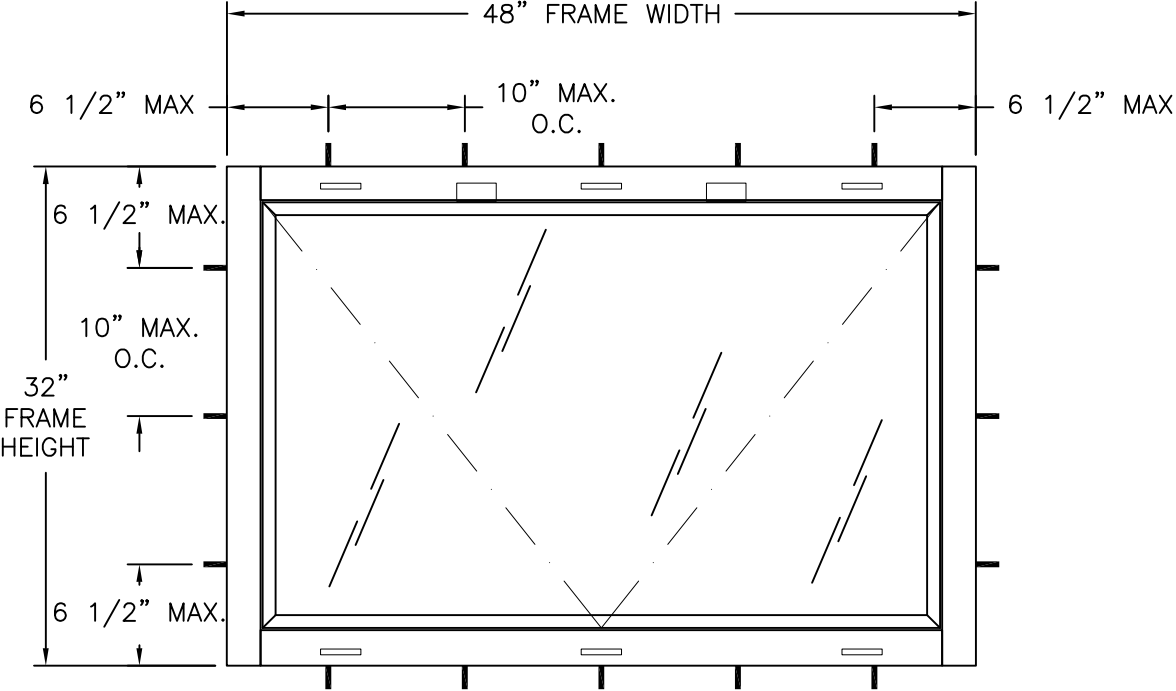
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SIGNED: 05/06/2026



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**SERIES SI7000 G2 INTERNATIONAL HOPPER WINDOW**  
EXTERIOR VIEW

| DESIGN PRESSURE RATING | IMPACT RATING                  |
|------------------------|--------------------------------|
| ±65.0PSF               | LARGE AND SMALL MISSILE IMPACT |

MISSILE LEVEL D, WIND ZONE 4  
SEE CHART #1, THIS SHEET  
48" X 32" UNIT SHOWN. OTHER SIZES APPROVED AS LONG AS  
FRAME AREA DOES NOT EXCEED 10.66 FT²

- NOTES:
- VENT SIZE: 46 1/8" X 30"
  - D.L.O.: 41 3/4" X 25 6/8"
  - 1 3/8" X 1/4" WEEPHOLE WITH PLASTIC WEEP COVER AT 6" FROM EACH END AND MIDSPAN OF HEAD AND SILL.

| HARDWARE SCHEDULE |                                                                    |
|-------------------|--------------------------------------------------------------------|
| A.                | SINGLE HANDLE CAM-TYPE LOCK AT MIDSPAN OF TOP RAIL                 |
| B.                | SINGLE HANDLE /SINGLE-POINT LOCK AT 4 3/8" FROM TOP OF LOCK STILES |
| C.                | METAL KEEPER AT LOCK LOCATION ON HEAD                              |
| D.                | METAL SNUBBER AT 6" FROM EACH END AND MIDSPAN OF BOTTOM RAIL       |
| E.                | (5) BAR HINGE AT JAMBS/STILES                                      |

**CHART #1**  
**Maximum design pressure capacity chart (psf)**

| Frame Height (in) | Frame width (in) |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------|------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                   | 24.0             |      | 30.0 |      | 36.0 |      | 42.0 |      | 46.1 |      | 48.0 |      | 54.0 |      |
|                   | Pos              | Neg  | Pos  | Neg  | Pos  | Neg  | Pos  | Neg  | Pos  | Neg  | Pos  | Neg  | Pos  | Neg  |
| 24.0              | 65.0             | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 |
| 30.0              | 65.0             | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | -    | -    | -    | -    |
| 36.0              | 65.0             | 65.0 | 65.0 | 65.0 | 65.0 | 65.0 | -    | -    | -    | -    | -    | -    | -    | -    |
| 42.0              | 65.0             | 65.0 | 65.0 | 65.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 48.0              | 65.0             | 65.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 54.0              | 65.0             | 65.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |

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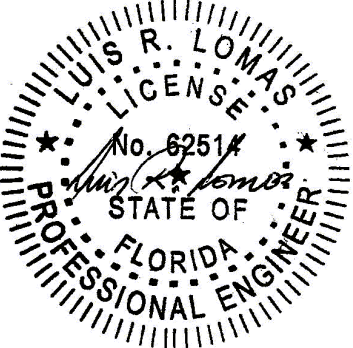
31 ROBERTS RD  
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL HOPPER  
PROJECT-IN-TOP WINDOW IMPACT  
ELEVATION AND DESIGN PRESSURE CHART

|                |                     |                 |
|----------------|---------------------|-----------------|
| DRAWN:<br>N.G. | DWG NO.<br>08-02920 | REV<br>D        |
| SCALE<br>NTS   | DATE<br>06/08/16    | SHEET<br>2 OF 6 |

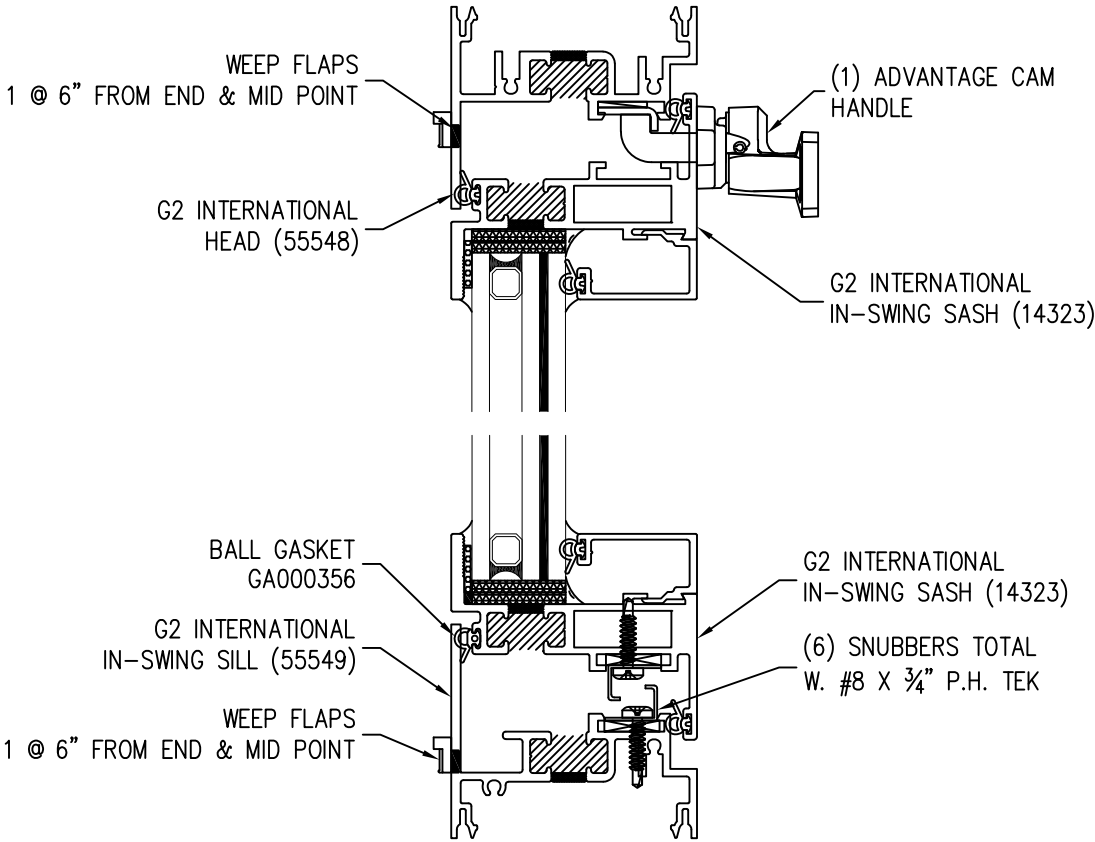
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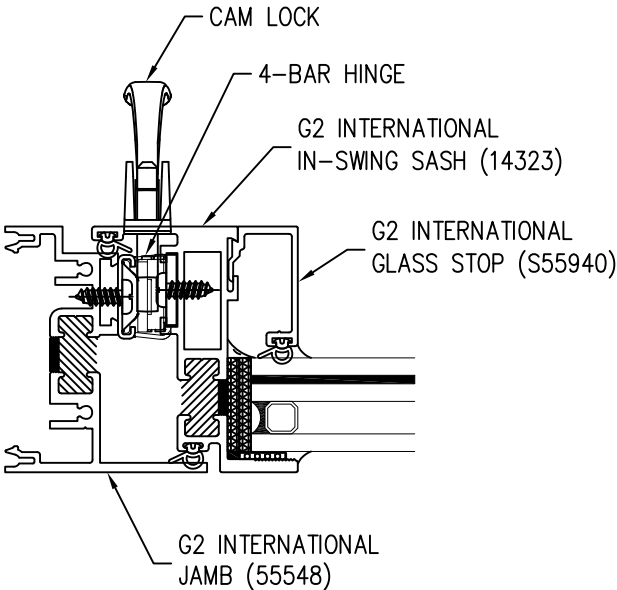


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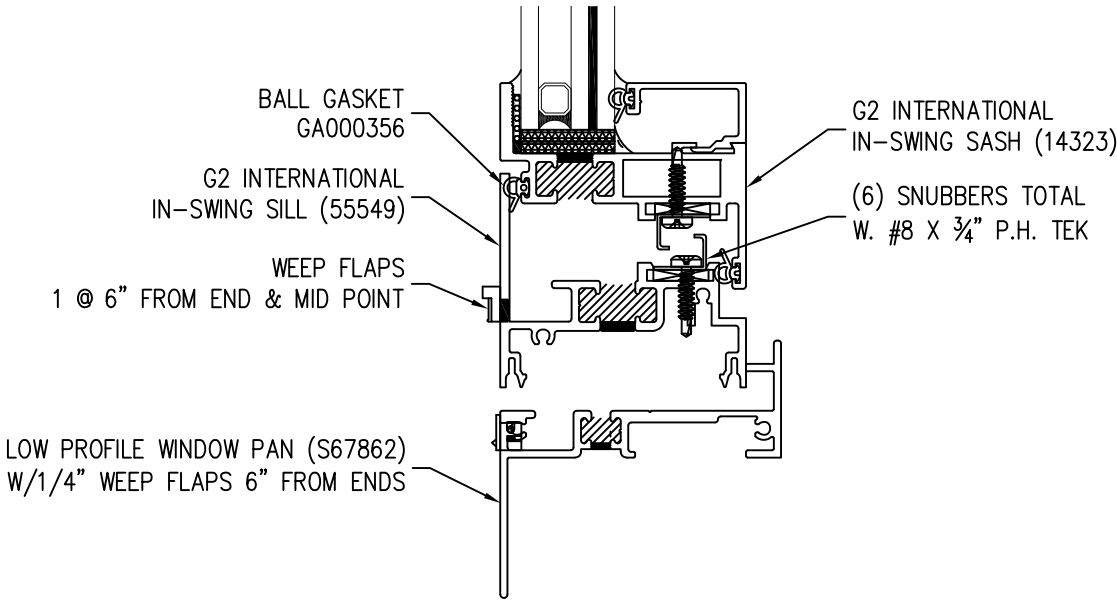
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VERTICAL CROSS SECTION



HORIZONTAL CROSS SECTION



ADDITIONAL SILL DETAIL

SOLAR INNOVATIONS, INC.

31 ROBERTS RD  
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL HOPPER  
PROJECT-IN-TOP WINDOW IMPACT  
CROSS SECTIONS

DRAWN:

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08-02920

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06/08/16

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3

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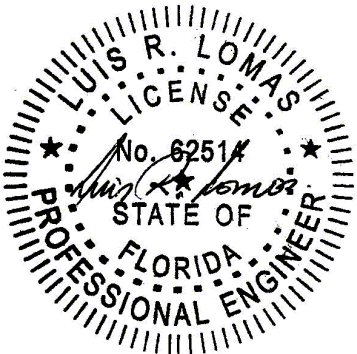
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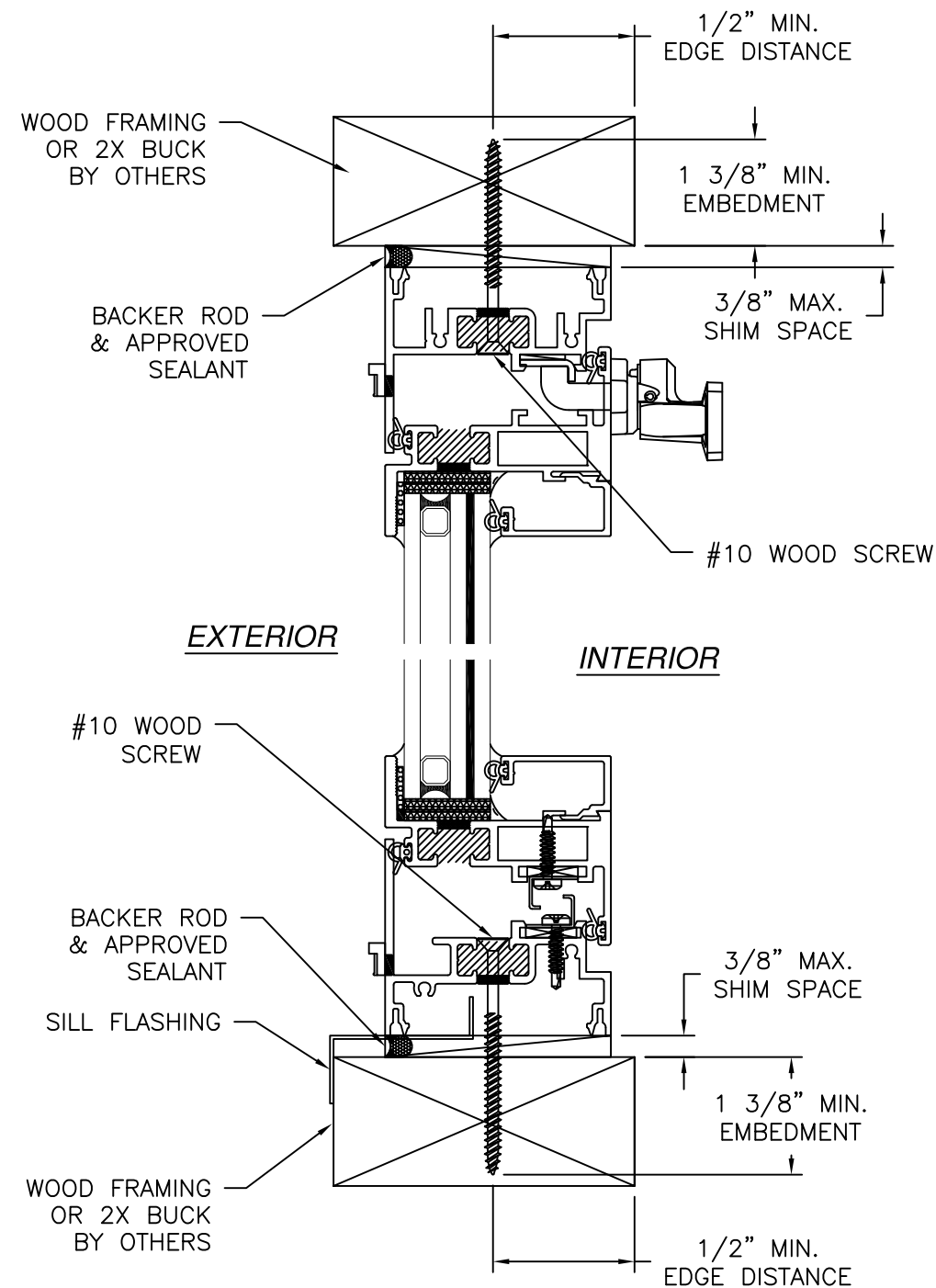
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SIGNED: 05/06/2026



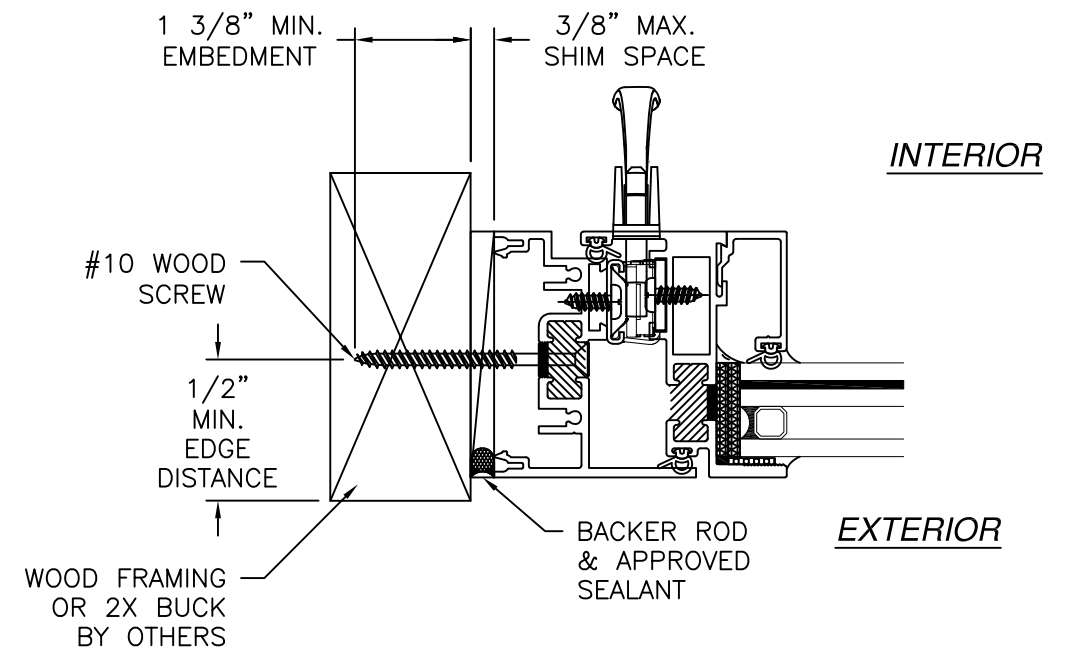
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FL No.: 62514



**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK INSTALLATION  
FOR ADDITIONAL SILL DETAIL, SEE SHEET 7

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

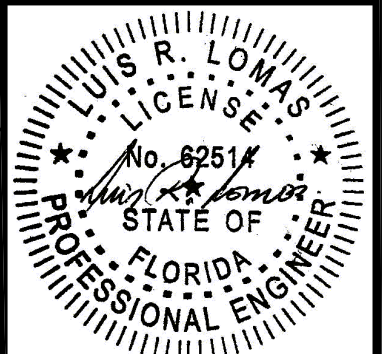
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**JAMB INSTALLATION DETAIL**  
WOOD FRAMING OR 2X BUCK INSTALLATION

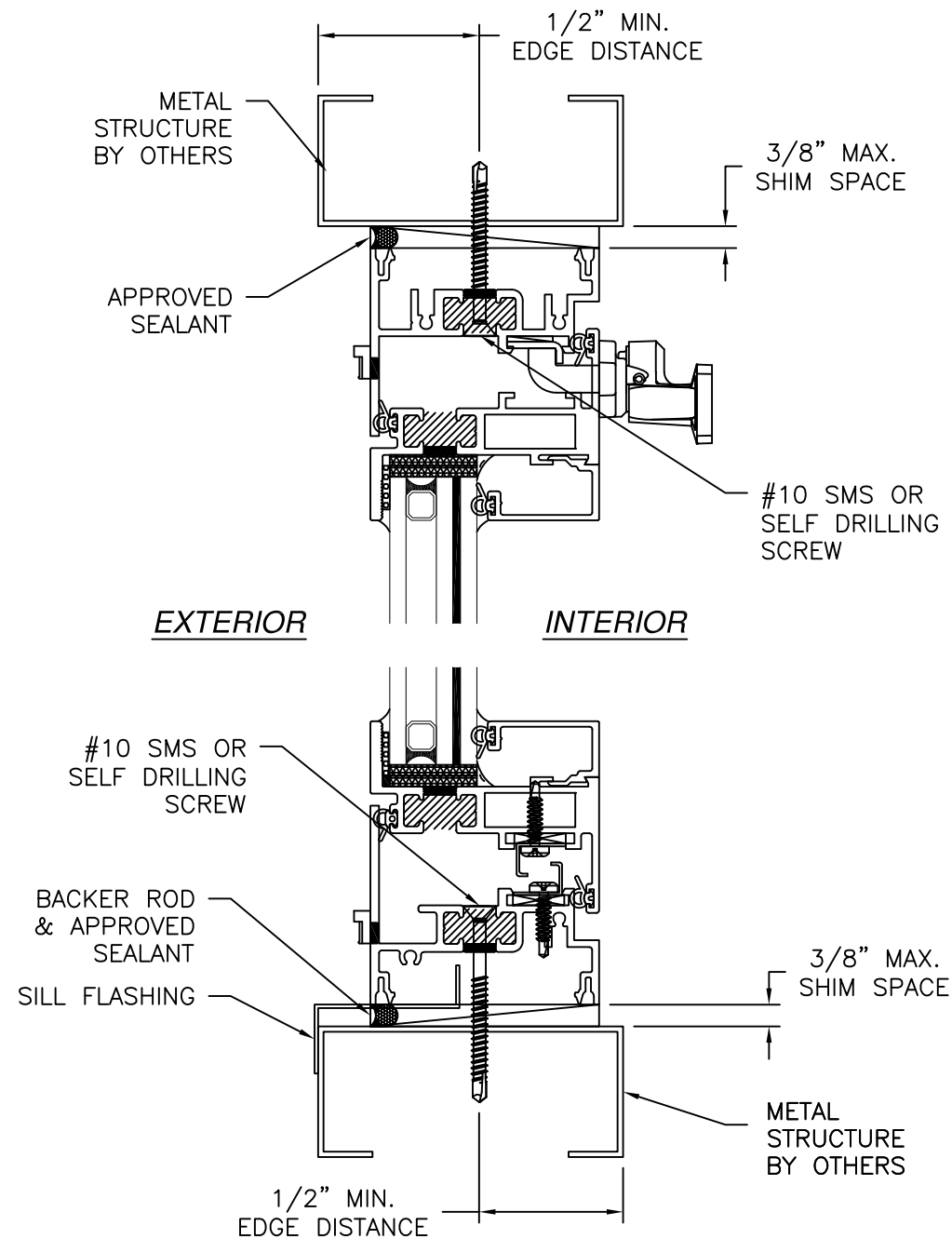
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|                                                                                                   |                     |                 |
|---------------------------------------------------------------------------------------------------|---------------------|-----------------|
| SOLAR INNOVATIONS, INC.                                                                           |                     |                 |
| 31 ROBERTS RD<br>PINE GROVE, PA 17963                                                             |                     |                 |
| SERIES SI7000 G2 INTERNATIONAL HOPPER<br>PROJECT-IN-TOP WINDOW IMPACT<br>INSTALLATION DETAILS     |                     |                 |
| DRAWN:<br>N.G.                                                                                    | DWG NO.<br>08-02920 | REV<br>D        |
| SCALE<br>NTS                                                                                      | DATE<br>06/08/16    | SHEET<br>4 OF 6 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |

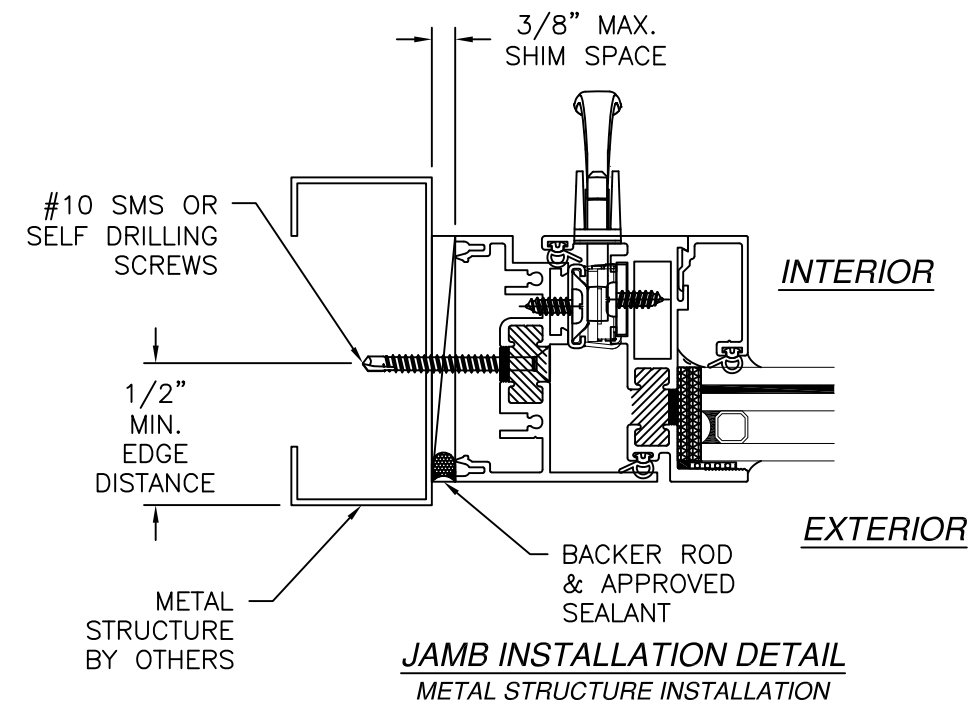


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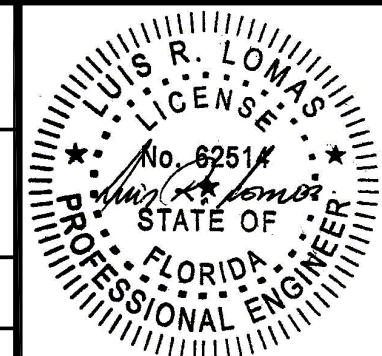
**VERTICAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION  
FOR ADDITIONAL SILL DETAIL, SEE SHEET 7



NOTES:  
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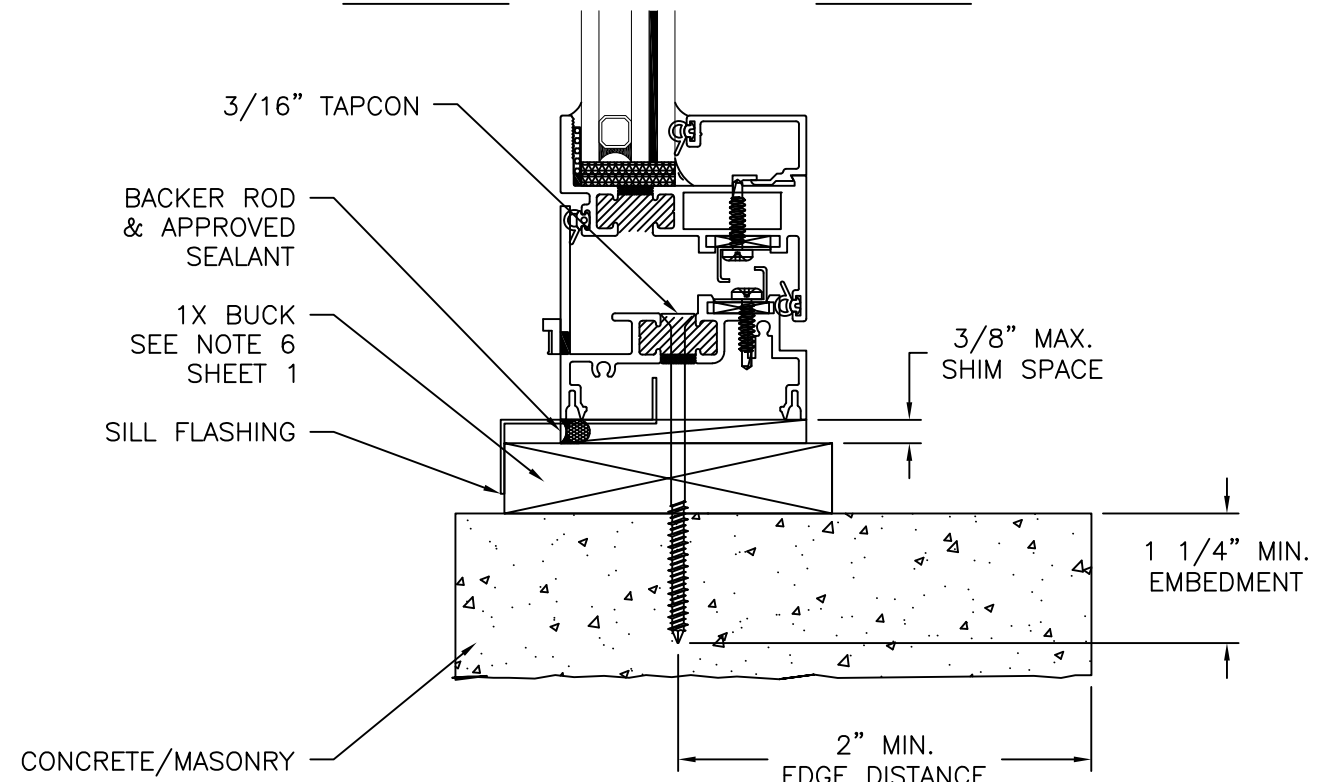
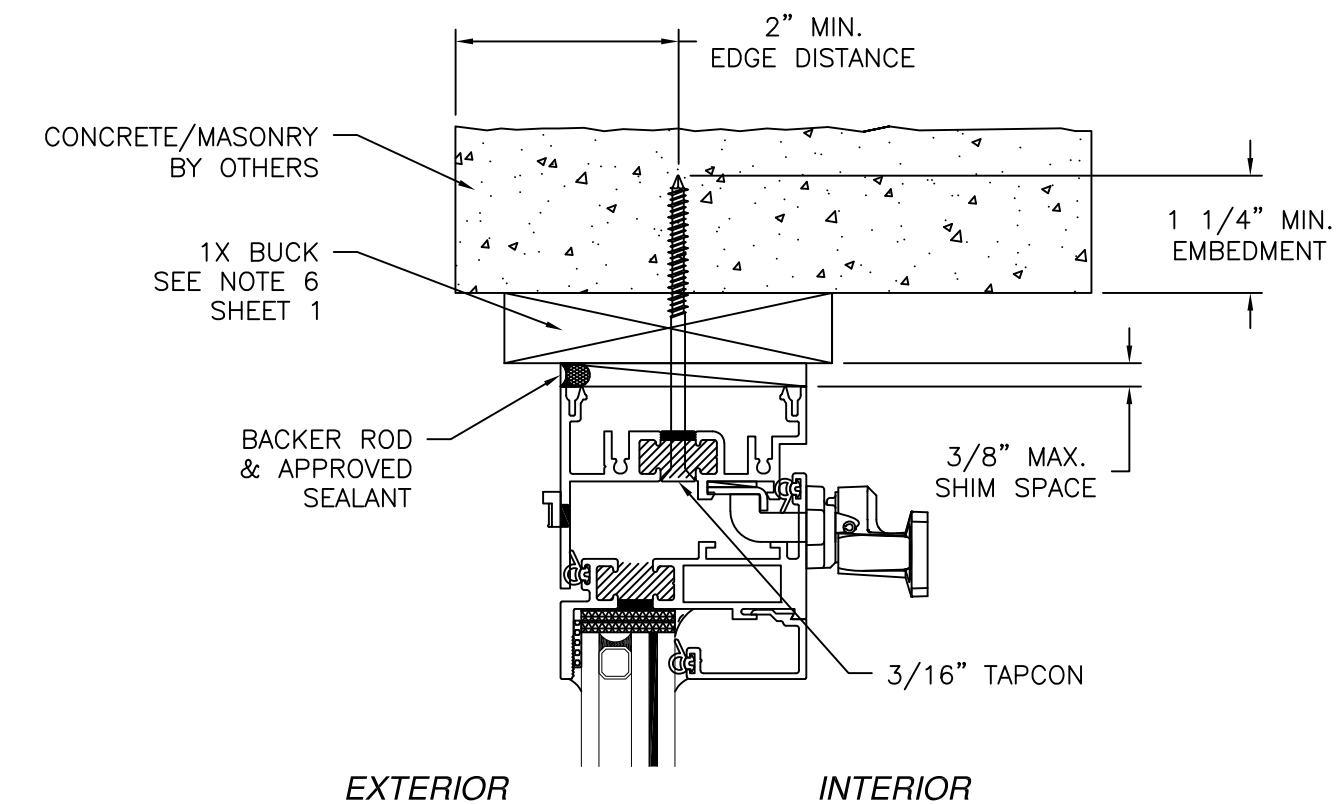
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| SERIES SI7000 G2 INTERNATIONAL HOPPER<br>PROJECT-IN-TOP WINDOW IMPACT<br>INSTALLATION DETAILS     |                     |                 |
| DRAWN:<br>N.G.                                                                                    | DWG NO.<br>08-02920 | REV<br>D        |
| SCALE<br>NTS                                                                                      | DATE<br>06/08/16    | SHEET<br>5 OF 6 |
| L. ROBERTO LOMAS P.E.<br>208 7th Ave, INDIALANTIC, FL 32903<br>434-688-0609 rllomas@lrlomaspe.com |                     |                 |

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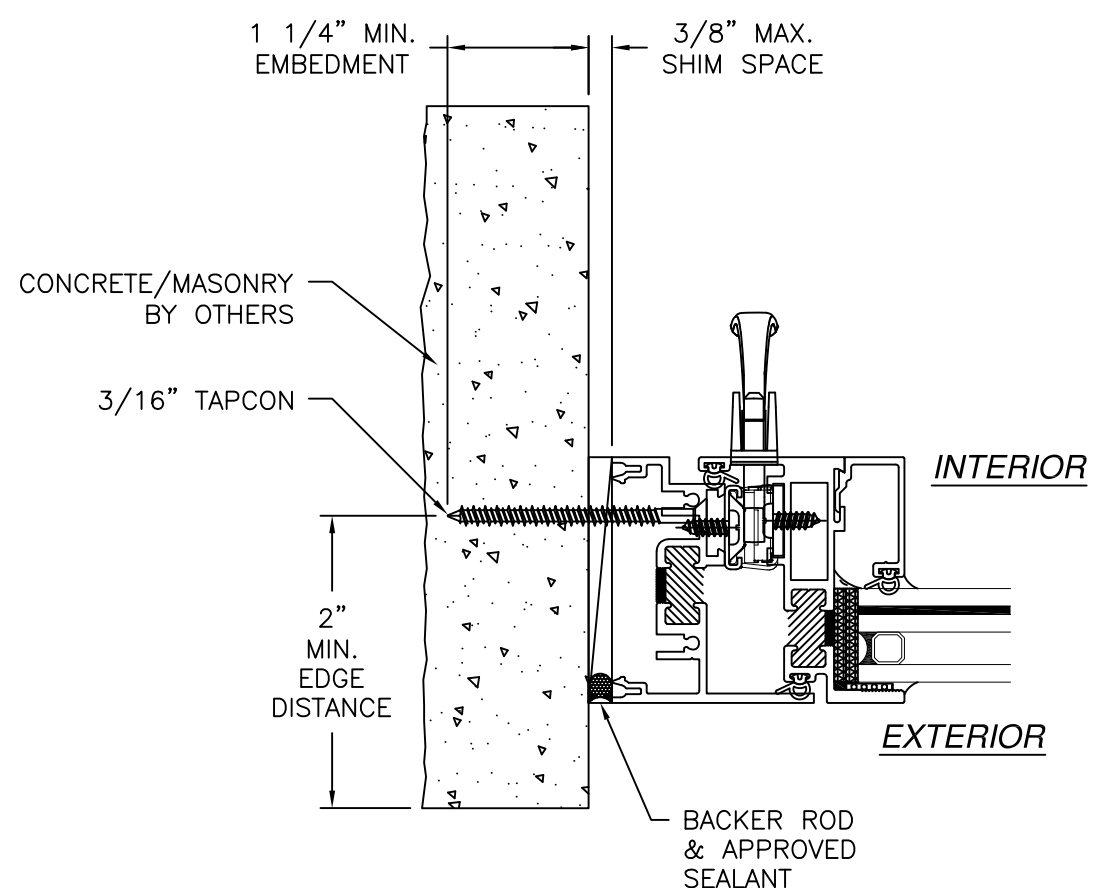
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**VERTICAL CROSS SECTION**  
 CONCRETE/MASONRY WITH 1X BUCK INSTALLATION  
 FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO  
 JAMB INSTALLATION DETAIL  
 FOR ADDITIONAL SILL DETAIL, SEE SHEET 7

- 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



**JAMB INSTALLATION DETAIL**  
 CONCRETE/MASONRY WITHOUT 1X BUCK INSTALLATION  
 FOR CONCRETE/MASONRY INSTALLATION WITH 1X BUCK REFER TO  
 HEAD AND SILL INSTALLATION DETAILS

SOLAR INNOVATIONS, INC.

31 ROBERTS RD  
PINE GROVE, PA 17963

SERIES SI7000 G2 INTERNATIONAL HOPPER  
PROJECT-IN-TOP WINDOW IMPACT  
INSTALLATION DETAILS

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6 OF 6

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SIGNED: 05/06/2026

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FLORIDA

PROFESSIONAL ENGINEER

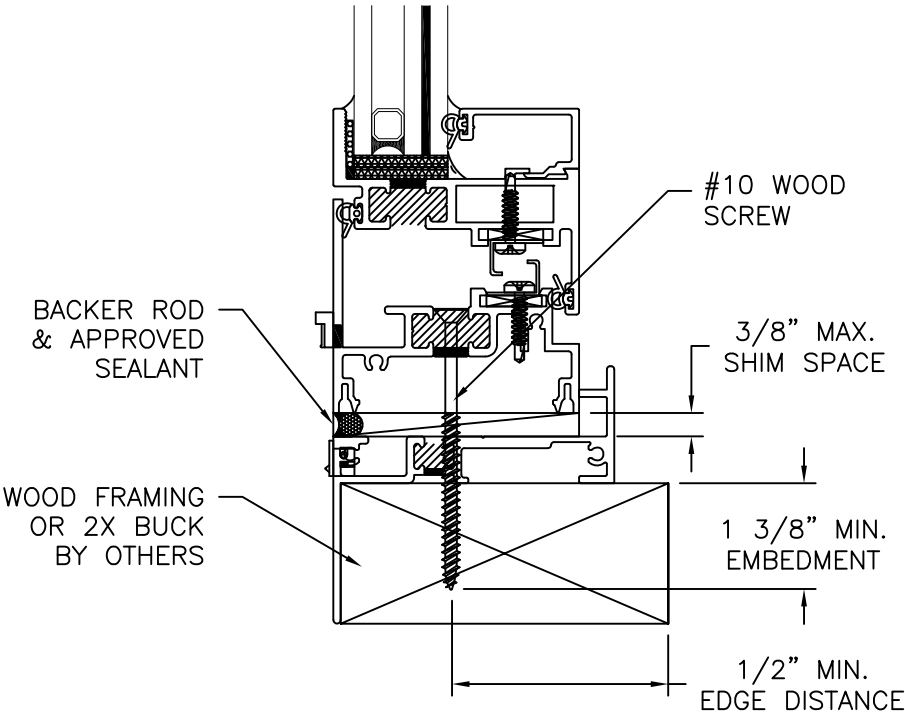
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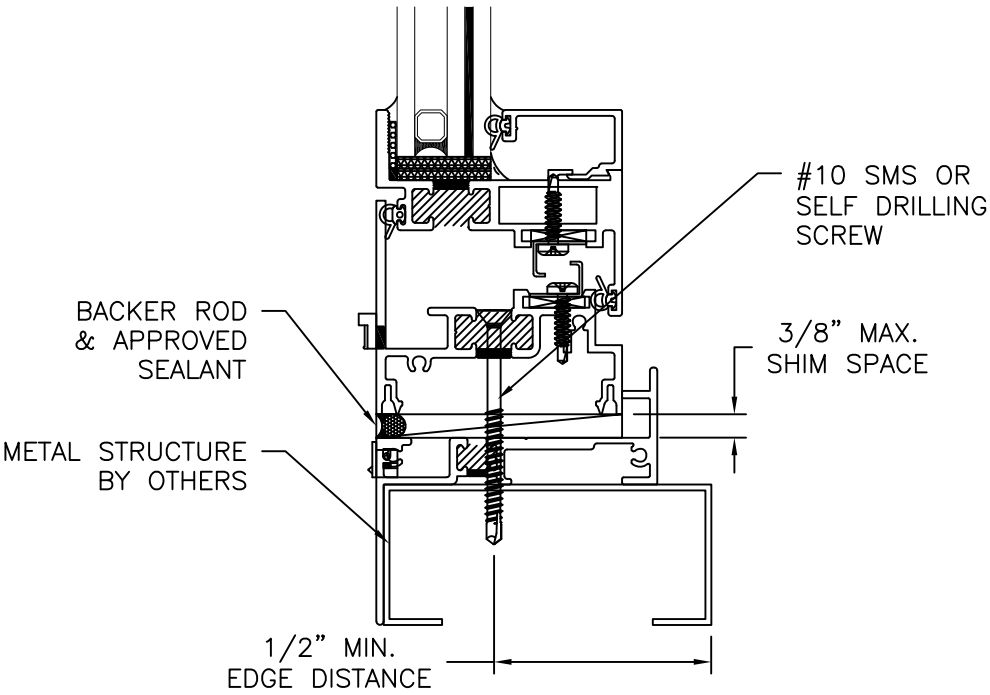
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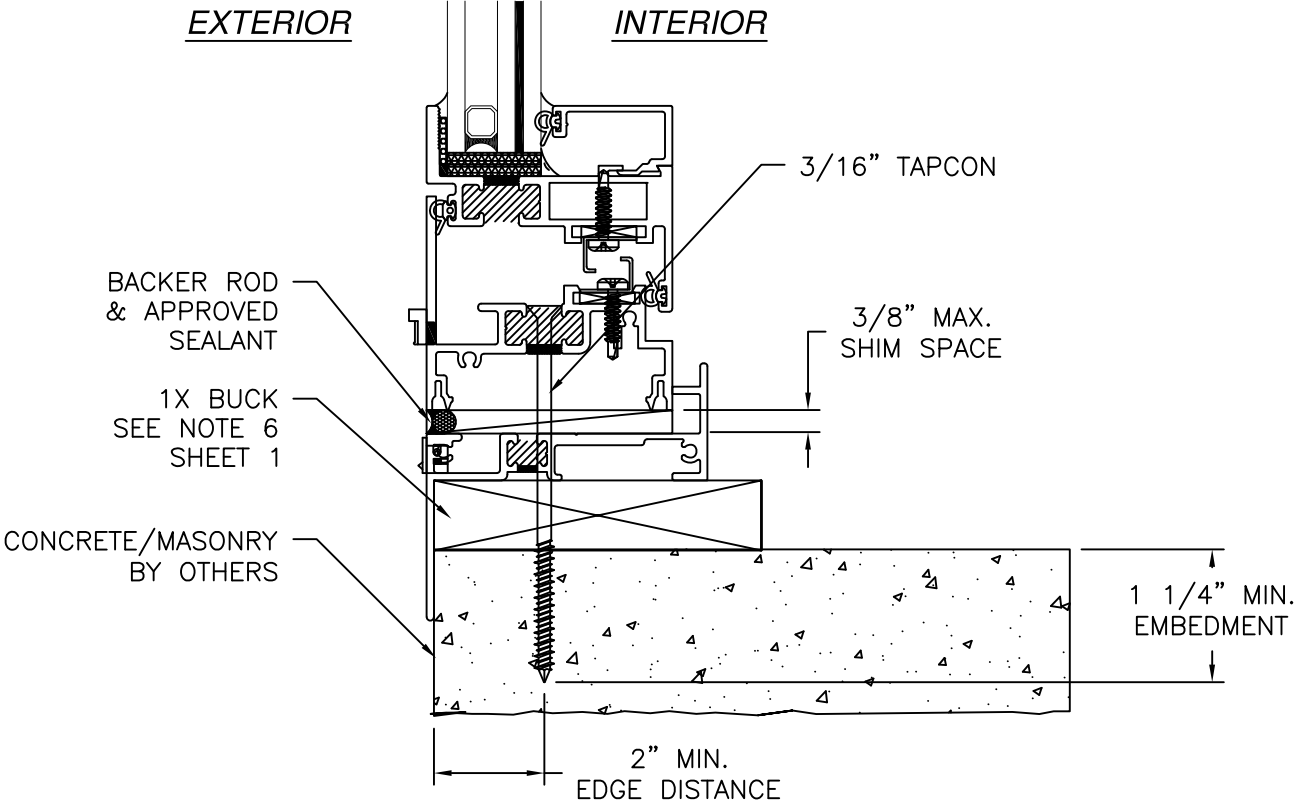


**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK INSTALLATION  
WITH LOW PROFILE WINDOW PAN S67862



**VERTICAL CROSS SECTION**  
METAL STRUCTURE INSTALLATION  
WITH LOW PROFILE WINDOW PAN S67862

NOTES:  
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**VERTICAL CROSS SECTION**  
CONCRETE/MASONRY INSTALLATION  
WITH LOW PROFILE WINDOW PAN S67862

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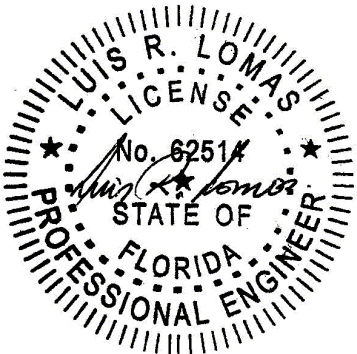
SHEET 7 OF 6

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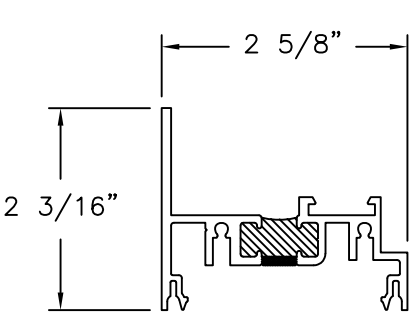
434-688-0609 rllomas@lrlomaspe.com

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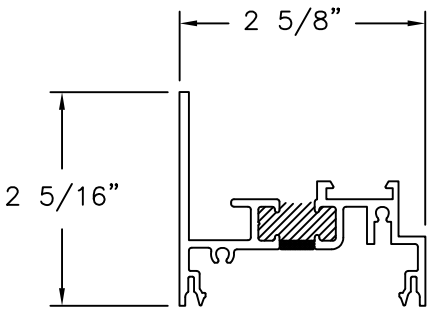


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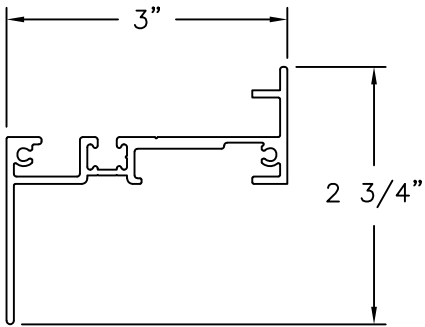
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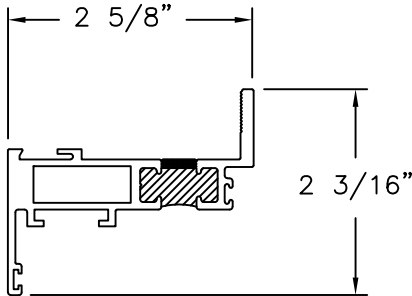
**FRAME HEAD (S55548)**  
ALUMINUM 6063-T5  
.100" THICK



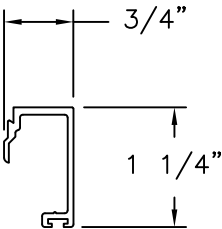
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ALUMINUM 6063-T5  
.100" THICK



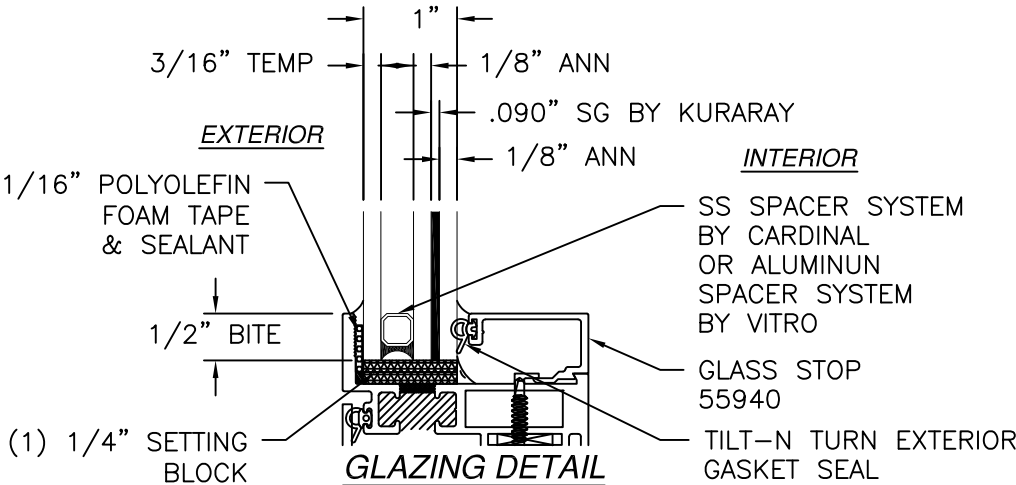
**LOW PROFILE WINDOW PAN**  
ALUMINUM 6063-T5  
.100" THICK



**SASH (H14323)**  
ALUMINUM 6063-T5  
.100" THICK



**GLAZING BEAD (S55940)**  
ALUMINUM 6063-T5  
.062" THICK



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DRAWN: N.G.

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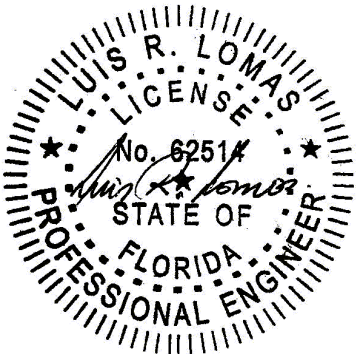
SHEET 8 OF 6

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