

| REVISIONS |                              |            |          |
|-----------|------------------------------|------------|----------|
| REV       | DESCRIPTION                  | DATE       | APPROVED |
| A         | REVISED PER NEW REQUIREMENTS | 11/12/2020 | R.L.     |

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 STRIP OR 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, WITH SAFETY GLAZING.
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 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

15. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #10 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
16. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16” OR 1/4” 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.
17. 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.
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 3,000 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 .125” THICK MINIMUM

SIGNED: 11/12/2020

| TABLE OF CONTENTS |                                      |
|-------------------|--------------------------------------|
| SHEET NO.         | DESCRIPTION                          |
| 1                 | NOTES                                |
| 2                 | ELEVATIONS                           |
| 3                 | ELEVATION AND DESIGN PRESSURE CHARTS |
| 4                 | CROSS SECTIONS AND B.O.M.            |
| 5 – 11            | INSTALLATION DETAILS                 |
| 12                | COMPONENTS                           |

SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD  
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD  
NON-IMPACT  
NOTES

DRAWN:  
A.R.

DWG NO.  
08-03238

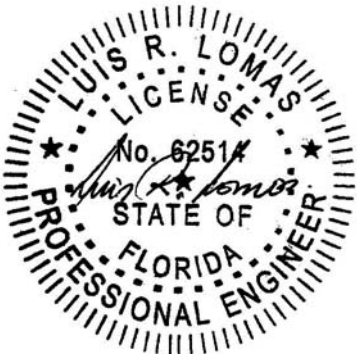
REV  
A

SCALE NTS

DATE 04/11/18

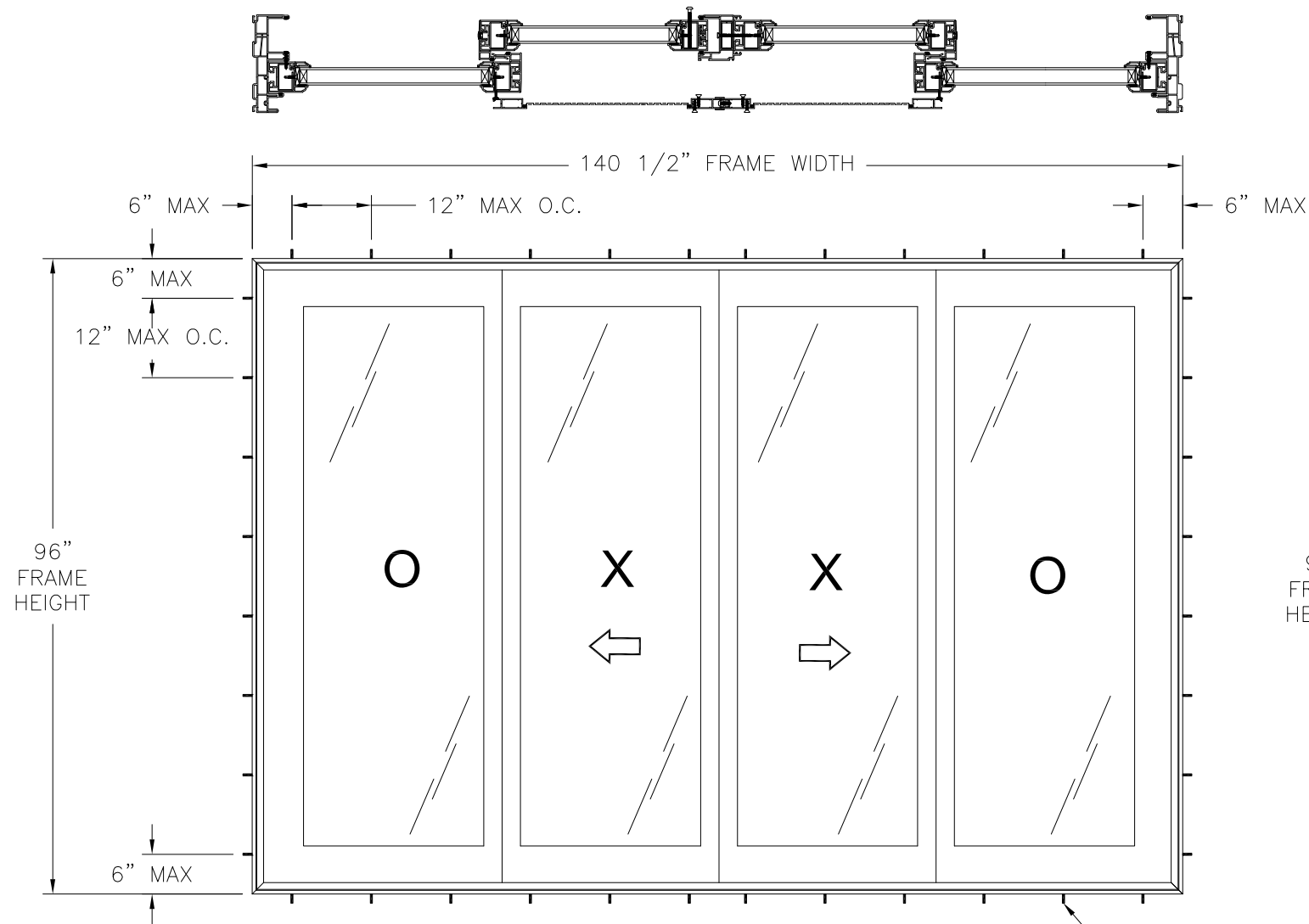
SHEET 1 OF 12

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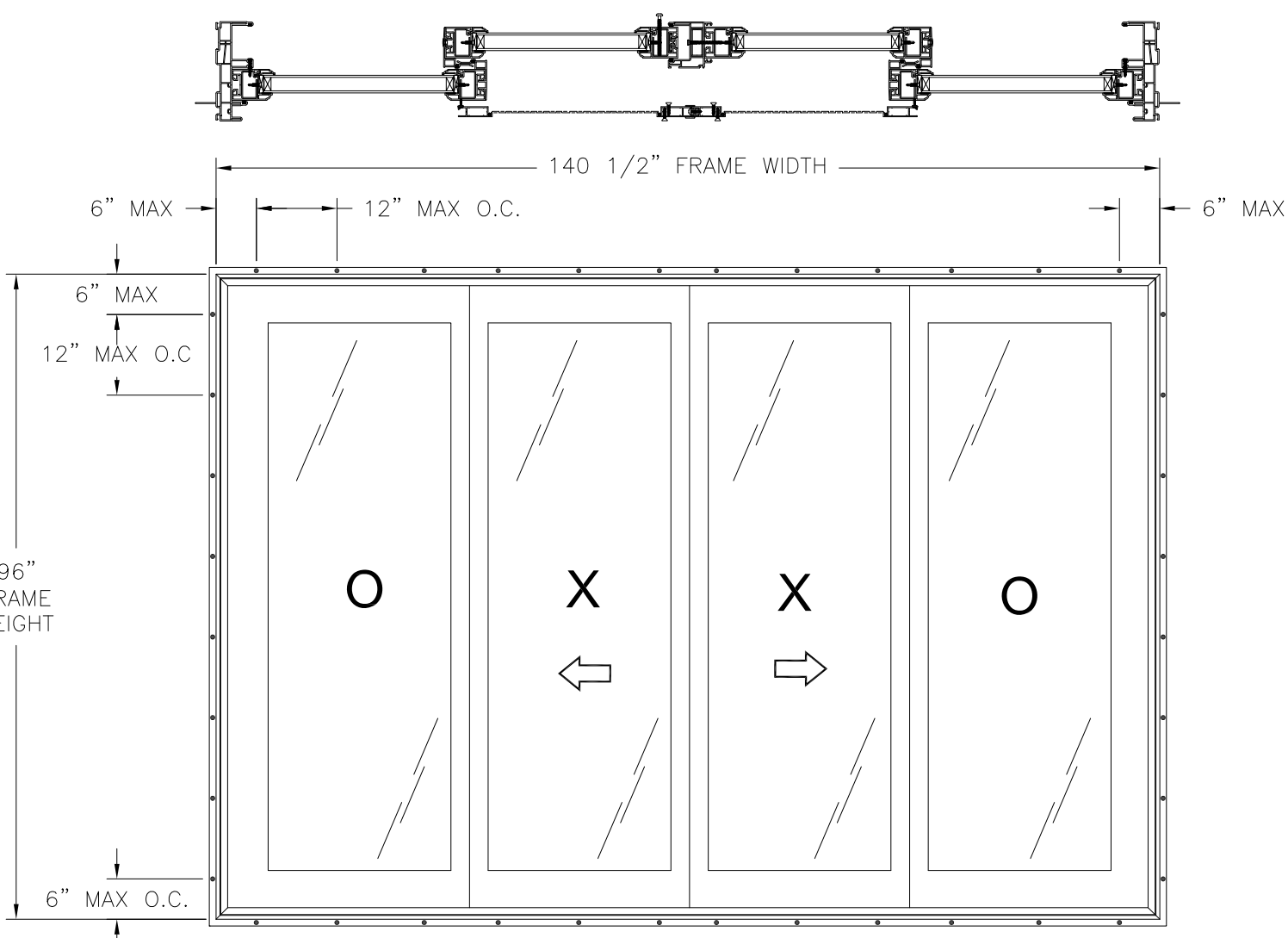
Luis R. Lomas P.E.  
FL No.: 62514

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**SERIES SI4100V VINYL SLIDING GLASS DOOR OXXO**  
EXTERIOR VIEW  
FRAME AND STRIP INSTALLATION  
WITH #10 WOOD SCREWS, #10 SMS SELF DRILLING SCREWS, AND 1/4" TAPCON

SEE CHART #3  
SHEET 3



**SERIES SI4100V VINYL SLIDING GLASS DOOR OXXO**  
EXTERIOR VIEW  
FIN INSTALLATION

- NOTES:**
1. ACTIVE PANEL SIZE: 35 5/8" X 92 3/4"
  2. FIXED PANEL SIZE: 35 7/16" X 92 9/16"
  3. D.L.O. FOR ALL PANELS: 30 5/8" X 87 7/8"

| DESIGN PRESSURE RATING | IMPACT RATING |
|------------------------|---------------|
| ±30.0PSF               | NONE          |

(4) PANELS SHOWN, UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 22.94 FT²  
SEE CHARTS #1 AND #2, SHEET 3

| HARDWARE SCHEDULE |                                                                      |
|-------------------|----------------------------------------------------------------------|
| A.                | (2) POINT CLAW-TYPE LOCK, FROM BOTTOM OF LOCK STILE                  |
| B.                | (1) METAL FASTENED TO ASTRAGAL, AT LOCK LOCATION                     |
| C.                | GLAVANIZED STEEL REINFORCEMENT AT FIXED PANEL STILES                 |
| D.                | EXTRUDED ALUMINUM REINFORCEMENT AT ACTIVE PANEL STILES AND ALL RAILS |
| E.                | EXTRUDED ALUMINUM REINFORCEMENT HOUSED BY ASTRAGAL                   |

|                                                                                                      |                     |                  |
|------------------------------------------------------------------------------------------------------|---------------------|------------------|
| SOLAR INNOVATIONS, INC.<br>31 ROBERTS ROAD<br>PINE GROVE, PA 17963                                   |                     |                  |
| SERIES SI4100V VINYL COMPOSITE SGD<br>NON-IMPACT<br>ELEVATIONS                                       |                     |                  |
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03238 | REV<br>A         |
| SCALE<br>NTS                                                                                         | DATE<br>04/11/18    | SHEET<br>2 OF 12 |
| L. ROBERTO LOMAS P.E.<br>1432 WOODFORD RD LEWISVILLE, NC 27023<br>434-688-0609 rllomas@lrlomaspe.com |                     |                  |

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Chart #1

| Maximum Design pressure (psf) |                         |      |       |      |       |      |       |      |       |      |
|-------------------------------|-------------------------|------|-------|------|-------|------|-------|------|-------|------|
| Panel Height (in)             | Single Panel Width (in) |      |       |      |       |      |       |      |       |      |
|                               | 24.00                   |      | 27.00 |      | 30.00 |      | 33.00 |      | 35.63 |      |
|                               | Pos                     | Neg  | Pos   | Neg  | Pos   | Neg  | Pos   | Neg  | Pos   | Neg  |
| 80.00                         | 30.0                    | 45.0 | 30.0  | 44.6 | 30.0  | 41.1 | 30.0  | 37.5 | 30.0  | 34.8 |
| 86.00                         | 30.0                    | 45.0 | 30.0  | 40.9 | 30.0  | 37.6 | 30.0  | 34.9 | 30.0  | 32.4 |
| 92.75                         | 30.0                    | 41.3 | 30.0  | 37.4 | 30.0  | 34.3 | 30.0  | 31.8 | 30.0  | 30.0 |
| 98.00                         | 30.0                    | 36.4 | 30.0  | 32.6 | 29.5  | 29.5 | 27.1  | 27.1 | -     | -    |
| 104.00                        | 30.0                    | 30.4 | 27.2  | 27.2 | 24.6  | 24.6 | -     | -    | -     | -    |
| 110.00                        | 25.6                    | 25.6 | 22.9  | 22.9 | 20.7  | 20.7 | -     | -    | -     | -    |
| 116.00                        | 21.8                    | 21.8 | 19.5  | 19.5 | -     | -    | -     | -    | -     | -    |
| 122.00                        | 18.7                    | 18.7 | 16.7  | 16.7 | -     | -    | -     | -    | -     | -    |
| 128.00                        | 16.2                    | 16.2 | -     | -    | -     | -    | -     | -    | -     | -    |

WHERE WATER PENETRATION IS REQUIRED

Chart #2

| Maximum Design pressure (psf) |                         |      |       |      |       |      |       |      |       |      |
|-------------------------------|-------------------------|------|-------|------|-------|------|-------|------|-------|------|
| Panel Height (in)             | Single Panel Width (in) |      |       |      |       |      |       |      |       |      |
|                               | 24.00                   |      | 27.00 |      | 30.00 |      | 33.00 |      | 35.63 |      |
|                               | Pos                     | Neg  | Pos   | Neg  | Pos   | Neg  | Pos   | Neg  | Pos   | Neg  |
| 80.00                         | 45.0                    | 45.0 | 44.6  | 44.6 | 41.1  | 41.1 | 37.5  | 37.5 | 34.8  | 34.8 |
| 86.00                         | 45.0                    | 45.0 | 40.9  | 40.9 | 37.6  | 37.6 | 34.9  | 34.9 | 32.4  | 32.4 |
| 92.75                         | 41.3                    | 41.3 | 37.4  | 37.4 | 34.3  | 34.3 | 31.8  | 31.8 | 30.0  | 30.0 |
| 98.00                         | 36.4                    | 36.4 | 32.6  | 32.6 | 29.5  | 29.5 | 27.1  | 27.1 | -     | -    |
| 104.00                        | 30.4                    | 30.4 | 27.2  | 27.2 | 24.6  | 24.6 | -     | -    | -     | -    |
| 110.00                        | 25.6                    | 25.6 | 22.9  | 22.9 | 20.7  | 20.7 | -     | -    | -     | -    |
| 116.00                        | 21.8                    | 21.8 | 19.5  | 19.5 | -     | -    | -     | -    | -     | -    |
| 122.00                        | 18.7                    | 18.7 | 16.7  | 16.7 | -     | -    | -     | -    | -     | -    |
| 128.00                        | 16.2                    | 16.2 | -     | -    | -     | -    | -     | -    | -     | -    |

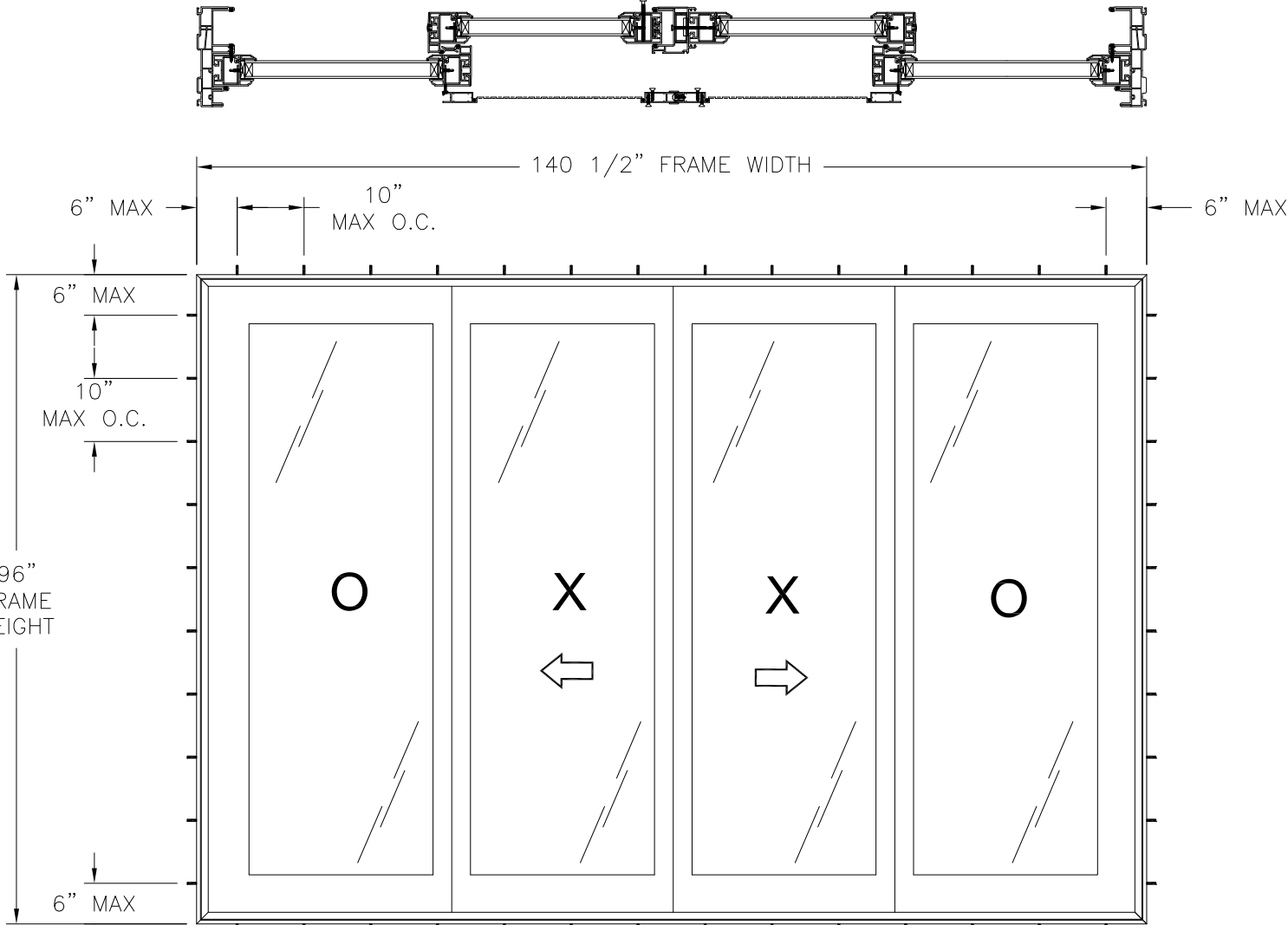
WHERE WATER PENETRATION IS NOT REQUIRED

Chart #3

| Number of anchor locations required |                       |      |       |      |       |      |       |      |       |      |
|-------------------------------------|-----------------------|------|-------|------|-------|------|-------|------|-------|------|
| Frame Height (in)                   | Frame Unit Width (in) |      |       |      |       |      |       |      |       |      |
|                                     | 96.0                  |      | 108.0 |      | 118.0 |      | 132.0 |      | 140.5 |      |
|                                     | H&S                   | Jamb | H&S   | Jamb | H&S   | Jamb | H&S   | Jamb | H&S   | Jamb |
| 80.0                                | 8                     | 7    | 9     | 7    | 10    | 7    | 11    | 7    | 12    | 7    |
| 86.0                                | 9                     | 8    | 9     | 8    | 10    | 8    | 11    | 8    | 12    | 8    |
| 92.75                               | 9                     | 8    | 9     | 8    | 10    | 8    | 11    | 8    | 12    | 8    |
| 98.0                                | 8                     | 9    | 9     | 9    | 10    | 9    | 11    | 9    | -     | -    |
| 104.0                               | 8                     | 9    | 9     | 9    | 10    | 9    | -     | -    | -     | -    |
| 110.0                               | 8                     | 10   | 9     | 10   | 10    | 10   | -     | -    | -     | -    |
| 116.0                               | 8                     | 10   | 9     | 10   | -     | -    | -     | -    | -     | -    |
| 122.0                               | 8                     | 11   | 9     | 11   | -     | -    | -     | -    | -     | -    |
| 128.0                               | 8                     | 11   | -     | -    | -     | -    | -     | -    | -     | -    |

Chart #4

| Number of anchor locations required, for 3/16" Tapcons only |                       |      |       |      |       |      |       |      |       |      |
|-------------------------------------------------------------|-----------------------|------|-------|------|-------|------|-------|------|-------|------|
| Frame Height (in)                                           | Frame Unit Width (in) |      |       |      |       |      |       |      |       |      |
|                                                             | 96.0                  |      | 108.0 |      | 118.0 |      | 132.0 |      | 140.5 |      |
|                                                             | H&S                   | Jamb | H&S   | Jamb | H&S   | Jamb | H&S   | Jamb | H&S   | Jamb |
| 80.0                                                        | 11                    | 8    | 12    | 8    | 12    | 8    | 13    | 8    | 14    | 8    |
| 86.0                                                        | 12                    | 9    | 12    | 9    | 12    | 9    | 13    | 9    | 14    | 9    |
| 92.75                                                       | 11                    | 10   | 12    | 10   | 12    | 10   | 13    | 10   | 14    | 10   |
| 98.0                                                        | 11                    | 10   | 11    | 10   | 12    | 10   | 13    | 10   | -     | -    |
| 104.0                                                       | 10                    | 11   | 11    | 11   | 12    | 11   | -     | -    | -     | -    |
| 110.0                                                       | 10                    | 11   | 11    | 11   | 12    | 11   | -     | -    | -     | -    |
| 116.0                                                       | 10                    | 12   | 11    | 12   | -     | -    | -     | -    | -     | -    |
| 122.0                                                       | 10                    | 12   | 11    | 12   | -     | -    | -     | -    | -     | -    |
| 128.0                                                       | 10                    | 13   | -     | -    | -     | -    | -     | -    | -     | -    |



SERIES SI4100V VINYL SLIDING GLASS DOOR OXXO

EXTERIOR VIEW  
FRAME INSTALLATION

WHEN INSTALLED INTO MASONRY WITH 3/16" TAPCONS

SEE CHART #4  
THIS SHEET

SIGNED: 11/12/2020

SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD  
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD  
NON-IMPACT  
DESIGN PRESSURE CHARTS

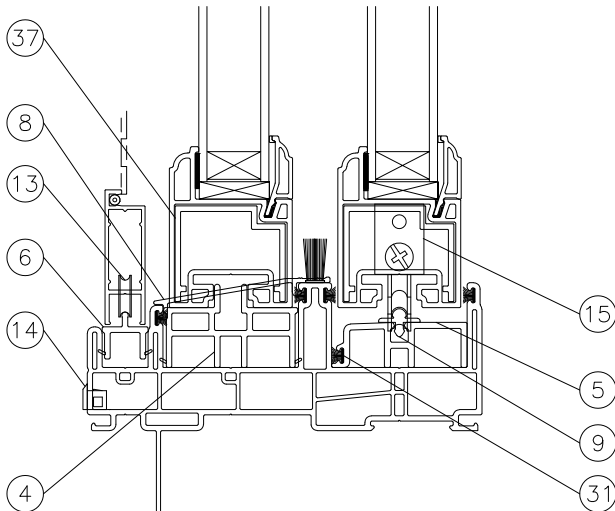
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| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03238 | REV<br>A         |
| SCALE<br>NTS                                                                                         | DATE<br>04/11/18    | SHEET<br>3 OF 12 |
| L. ROBERTO LOMAS P.E.<br>1432 WOODFORD RD LEWISVILLE, NC 27023<br>434-688-0609 rllomas@lrlomaspe.com |                     |                  |



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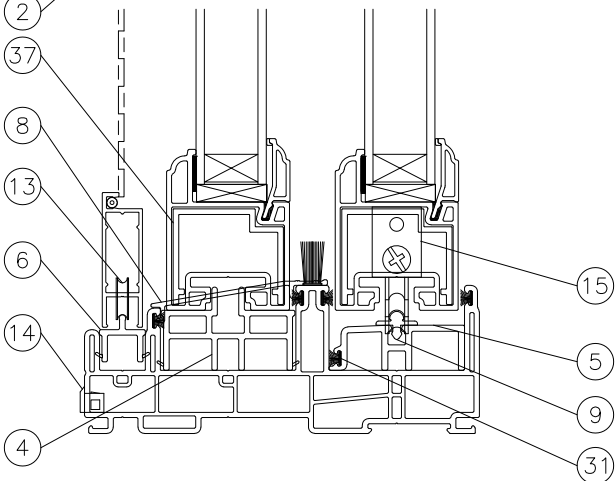
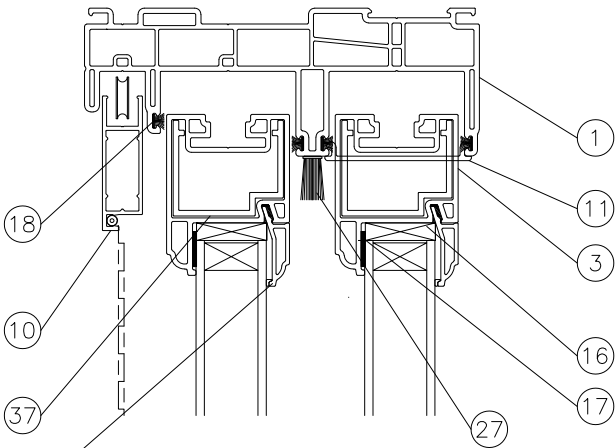
| BILL OF MATERIALS |             |                                |                   |                  |
|-------------------|-------------|--------------------------------|-------------------|------------------|
| ITEM NO.:         | PART NUMBER | DESCRIPTION                    | MANUFACTURER      | MATERIAL         |
| 1                 | S003        | FRAME                          | ENERGI            | RIGID PVC        |
| 2                 | S021        | 1" GLAZING BEAD                | ENERGI            | RIGID PVC        |
| 3                 | S019        | SASH                           | ENERGI            | RIGID PVC        |
| 4                 | S008        | SUPPORT BLOCK                  | ENERGI            | RIGID PVC        |
| 5                 | S018        | SILL ADAPTER                   | ENERGI            | RIGID PVC        |
| 6                 | 7059        | SCREEN ADAPTER                 | ENERGI            | RIGID PVC        |
| 7                 | S080        | SNAP-ON MEETING RAIL           | ENERGI            | RIGID PVC        |
| 8                 |             | SILL                           | ENERGI            | ALUMINUM 6063-T5 |
| 9                 |             | SASH RAIL                      | ENERGI            | ALUMINUM 6063-T5 |
| 10                |             | SCREEN                         | ENERGI            | ALUMINUM 6063-T5 |
| 11                | S029        | SASH STOP                      | ENERGI            | RIGID PVC        |
| 12                |             | SASH REINFORCEMENT             |                   | STEEL            |
| 13                |             | SCREEN ROLLER                  |                   | NYLON            |
| 14                | 110-2550-10 | WEEP COVER                     | RO-MAI            |                  |
| 15                |             | TANDEM ROLLER                  |                   |                  |
| 16                |             | SETTING BLOCK (80 HARDNESS)    |                   |                  |
| 17                |             | 1/2" GLAZING TAPE              | JACOBS & THOMPSON |                  |
| 18                | HF-7320-187 | WEATHER STRIP                  | SCHLEGEL          |                  |
| 19                | SS-6945     |                                | SCHLEGEL          |                  |
| 20                |             | INT & EXT SCREEN HANDLE        |                   |                  |
| 21                |             | SCREEN KEEPER                  |                   |                  |
| 22                |             | SASH KEEPER                    |                   |                  |
| 23                |             | INT & EXT SASH HANDLE          |                   |                  |
| 24                |             | #6 X 1/2" SCREEN KEEPER SCREWS |                   |                  |
| 25                |             | #8 X 5/8" SASH KEEPER SCREWS   |                   |                  |
| 26                |             | #6 X 1" FIXED SASH SCREWS      |                   |                  |
| 27                | T5927AMV    | 6" WEATHER STRIP               | ULTRAFAB          |                  |
| 28                | EAQ705      | SCREW PLUG                     |                   |                  |
| 29                | S030        | LOCK SIDE MOLDING              | ROYAL             |                  |
| 30                |             | #8 X 3/4" REINFORCEMENT SCREWS |                   |                  |
| 31                | PB-8322-187 | WEATHER STRIP                  | SCHLEGEL          |                  |
| 32                |             | INSIDE ASTRAGAL REINFORCEMENT  |                   | STEEL            |
| 33                | S083        | INSIDE ASTRAGAL                | ROYAL             |                  |
| 34                | 6087        | SCREEN ASTRAGAL                |                   |                  |
| 35                |             | #8 X 2" ASTRAGAL SCREWS        |                   |                  |
| 36                |             | DUST PAD                       |                   |                  |
| 37                | S-15463     | HANDLE RAIL REINFORCEMENT      | EXTRUDEX          | ALUMINUM 6063-T5 |
| 38                | V-15214     | MEETING RAIL REINFORCEMENT     | EXTRUDEX          | ALUMINUM 6063-T5 |
| 39                |             | MORTISE SUPPORT                |                   | FOAM PVC         |

FOR ILLUSTRATION PURPOSES ONLY  
FOR INSTALLATION DETAILS  
REFER TO SHEETS 4 - 10

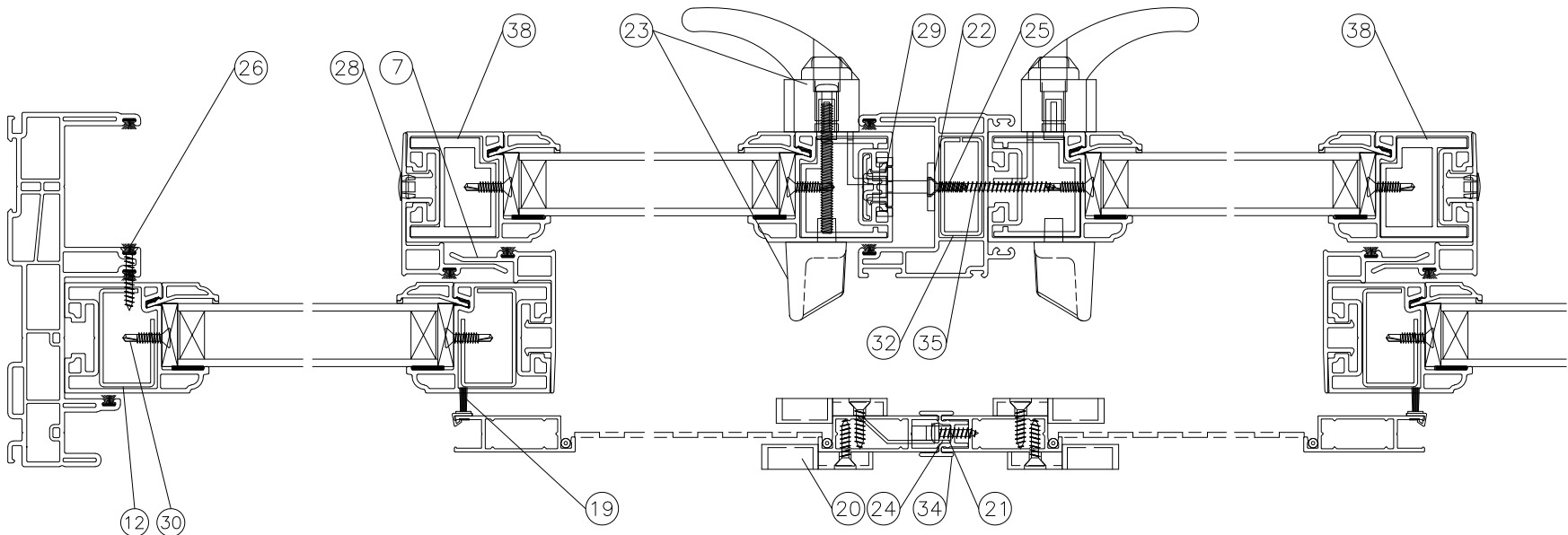


OPTIONAL FIN FRAME

NOTES:  
1. INSTALL SILICONE 4" @ CORNERS  
BEFORE INSERTING GLAZING BEAD.



VERTICAL SECTION



HORIZONTAL SECTION

SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD  
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD  
NON-IMPACT  
CROSS SECTIONS AND B.O.M.

|                |                     |                  |
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| DRAWN:<br>A.R. | DWG NO.<br>08-03238 | REV<br>A         |
| SCALE<br>NTS   | DATE<br>04/11/18    | SHEET<br>4 OF 12 |

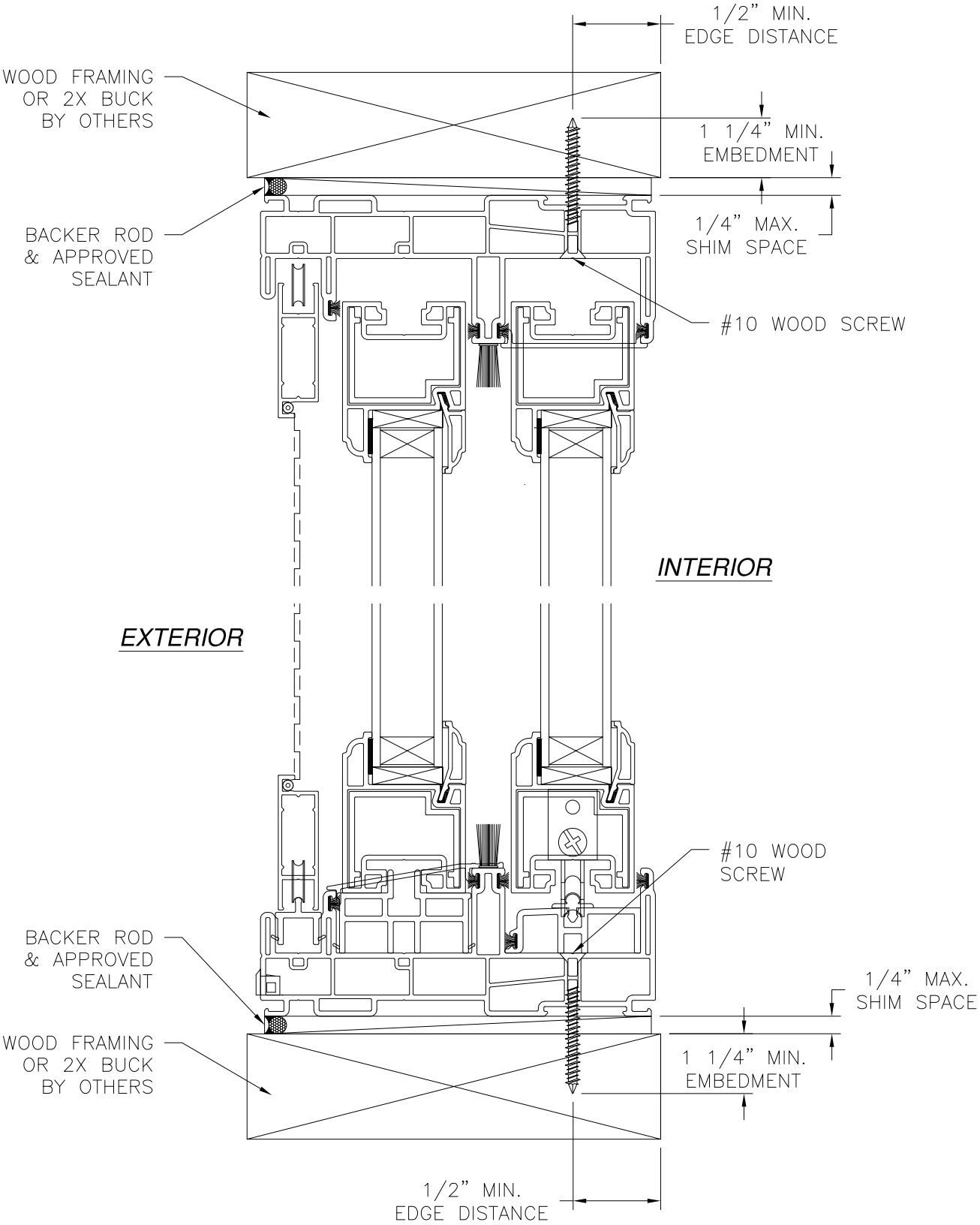
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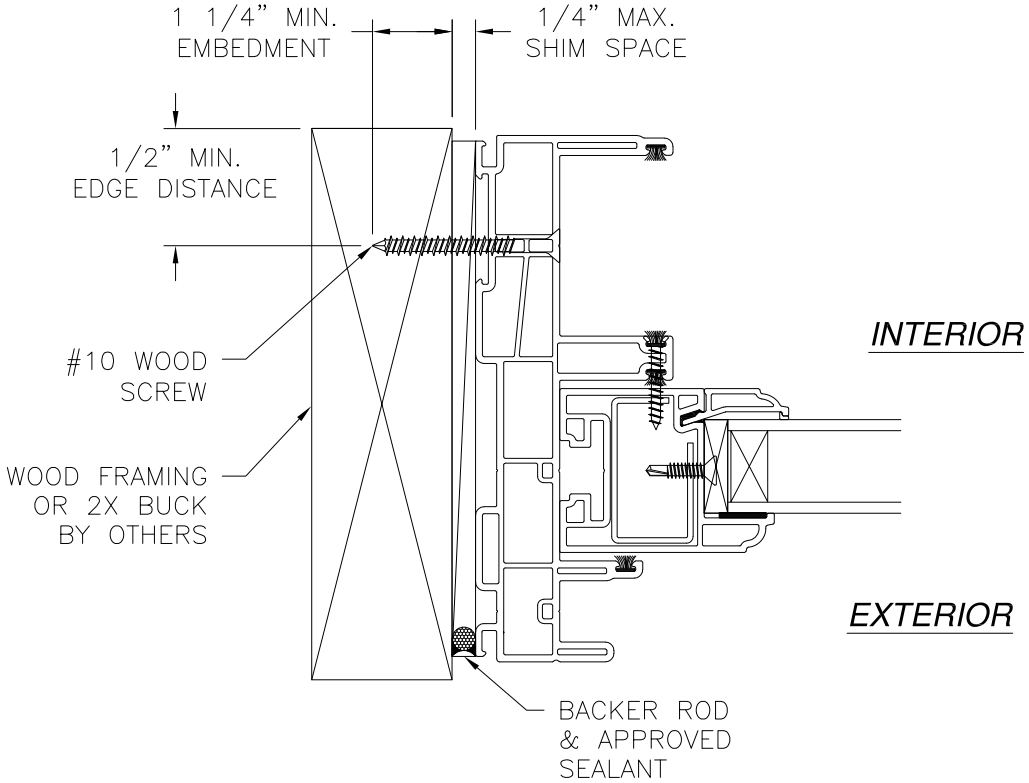


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**VERTICAL CROSS SECTION**  
WOOD FRAMING OR 2X BUCK INSTALLATION



**JAMB INSTALLATION DETAIL**  
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

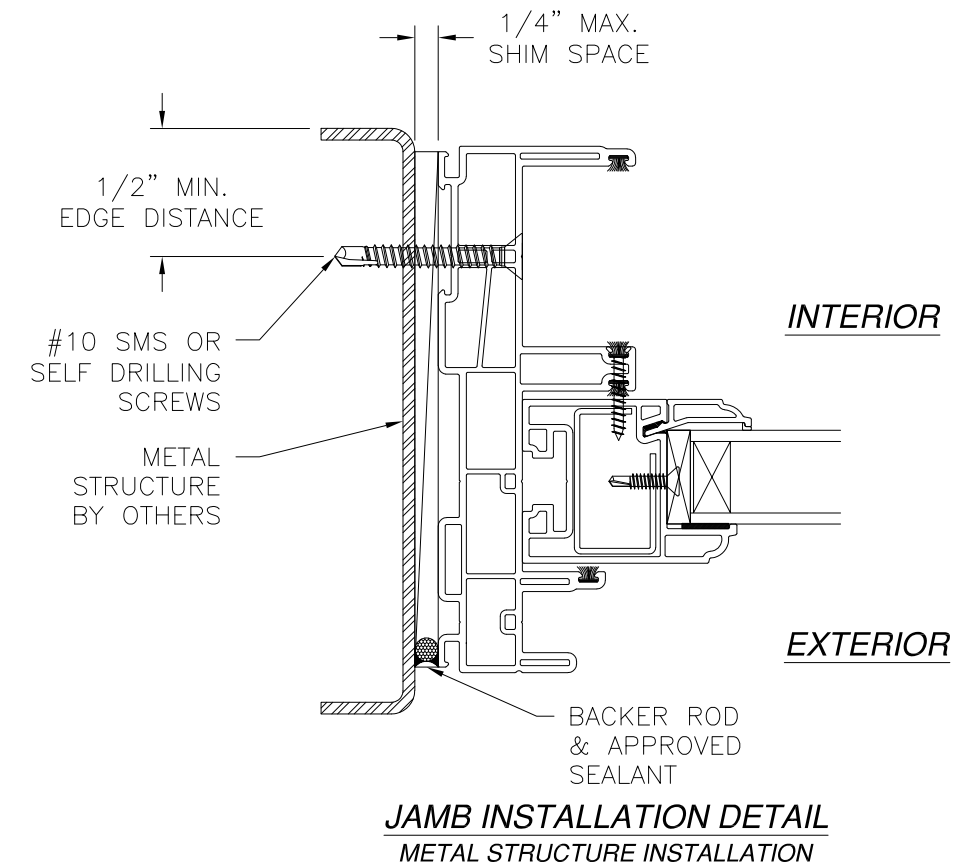
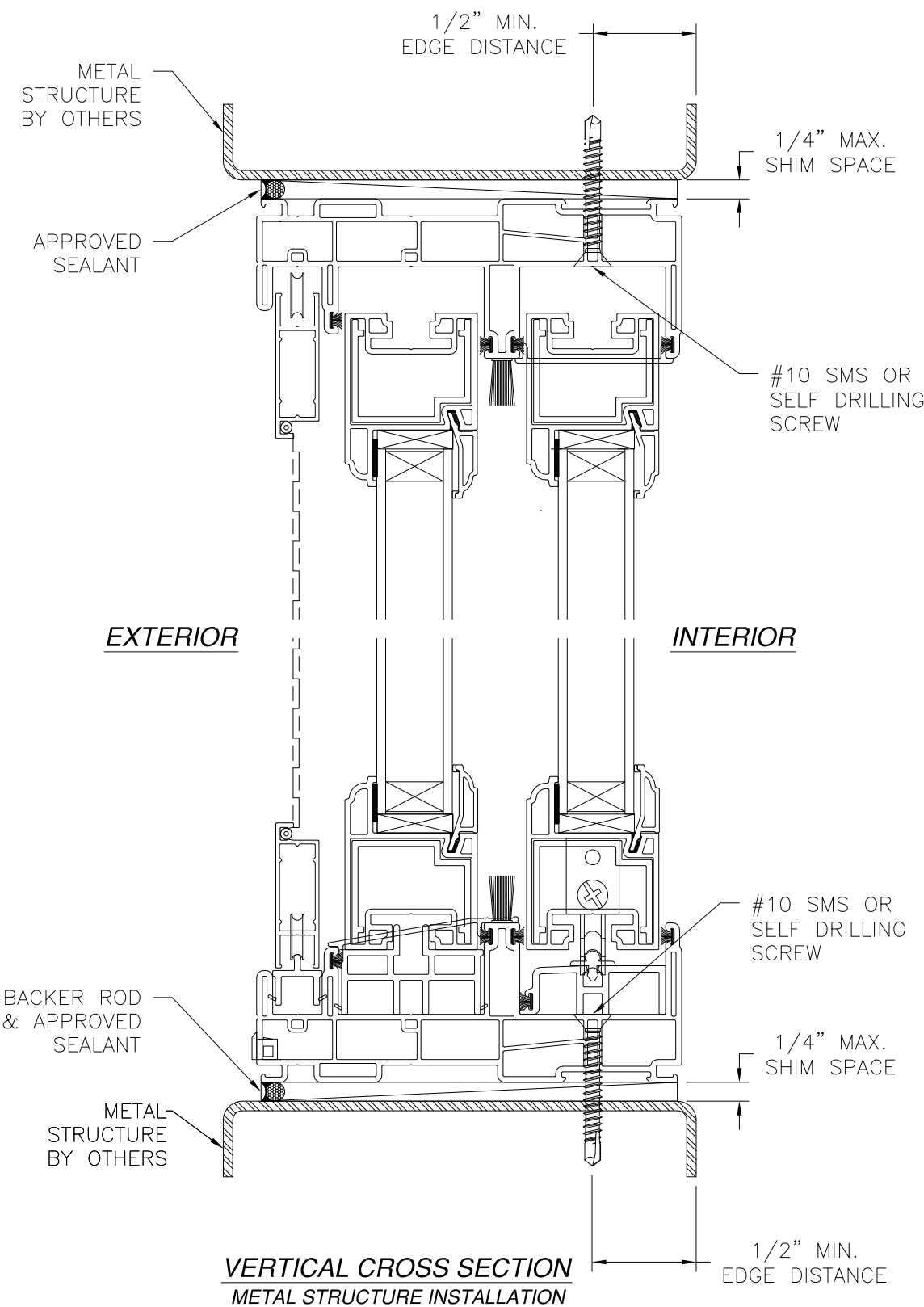
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|------------------------------------------------------------------------------------------------------|---------------------|------------------|
| SOLAR INNOVATIONS, INC.<br>31 ROBERTS ROAD<br>PINE GROVE, PA 17963                                   |                     |                  |
| SERIES SI4100V VINYL COMPOSITE SGD<br>NON-IMPACT<br>FRAME INSTALLATION DETAILS                       |                     |                  |
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03238 | REV<br>A         |
| SCALE<br>NTS                                                                                         | DATE<br>04/11/18    | SHEET<br>5 OF 12 |
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 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD  
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD  
NON-IMPACT  
FRAME INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03238

REV A

SCALE NTS

DATE 04/11/18

SHEET 6 OF 12

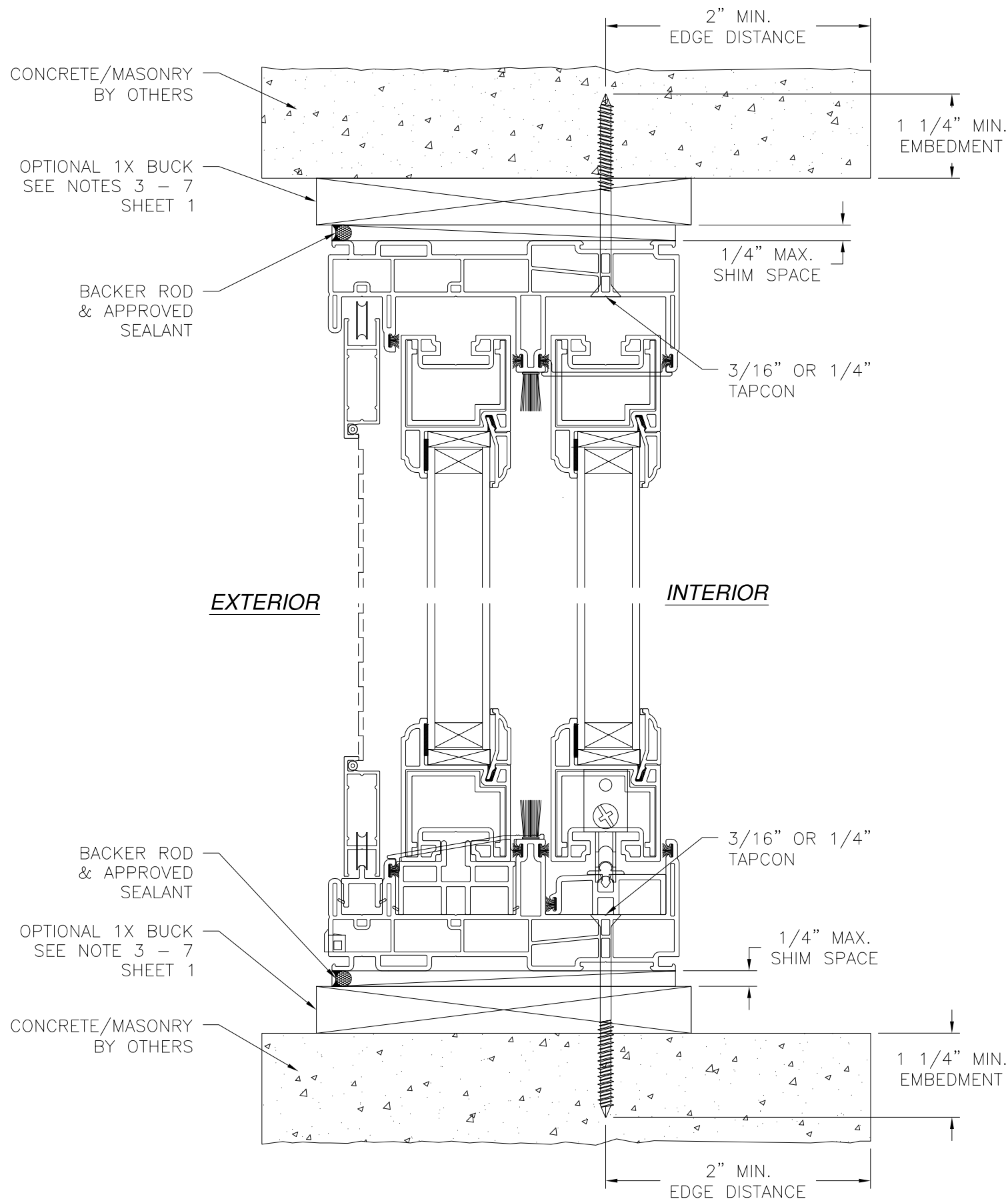
L. ROBERTO LOMAS P.E.

1432 WOODFORD RD LEWISVILLE, NC 27023

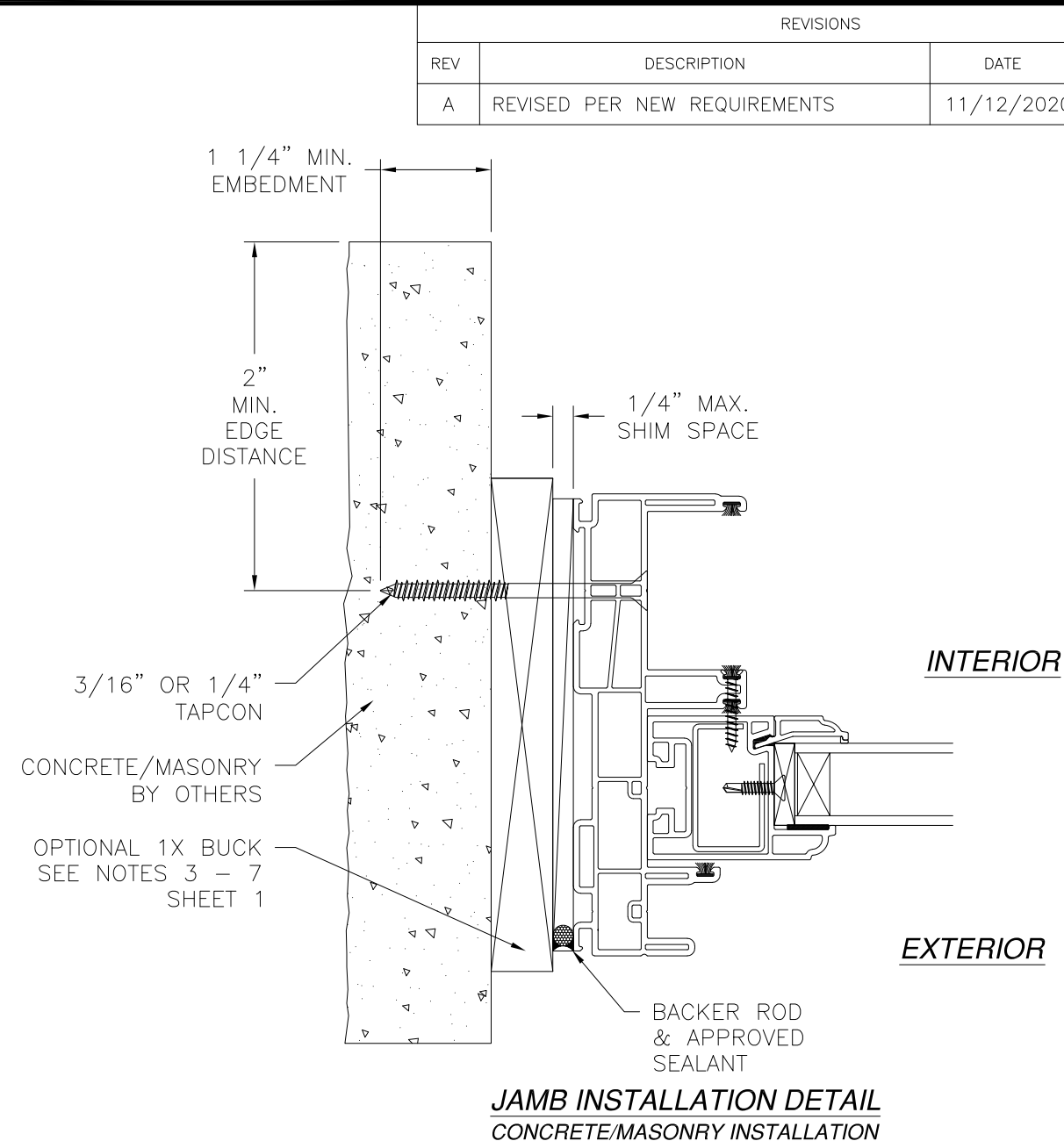
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 11/12/2020

Luis R. Lomas P.E.  
 FL No.: 62514



**VERTICAL CROSS SECTION**  
CONCRETE/MASONRY INSTALLATION



**JAMB INSTALLATION DETAIL**  
CONCRETE/MASONRY 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

| REVISIONS |                              |            |          |
|-----------|------------------------------|------------|----------|
| REV       | DESCRIPTION                  | DATE       | APPROVED |
| A         | REVISED PER NEW REQUIREMENTS | 11/12/2020 | R.L.     |

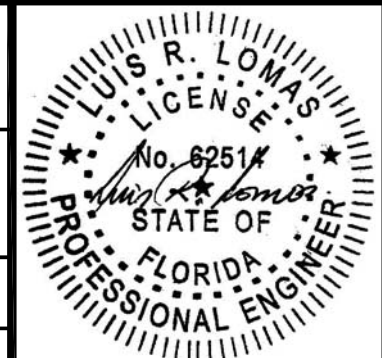
**SOLAR INNOVATIONS, INC.**  
 31 ROBERTS ROAD  
 PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD  
 NON-IMPACT  
 FRAME INSTALLATION DETAILS

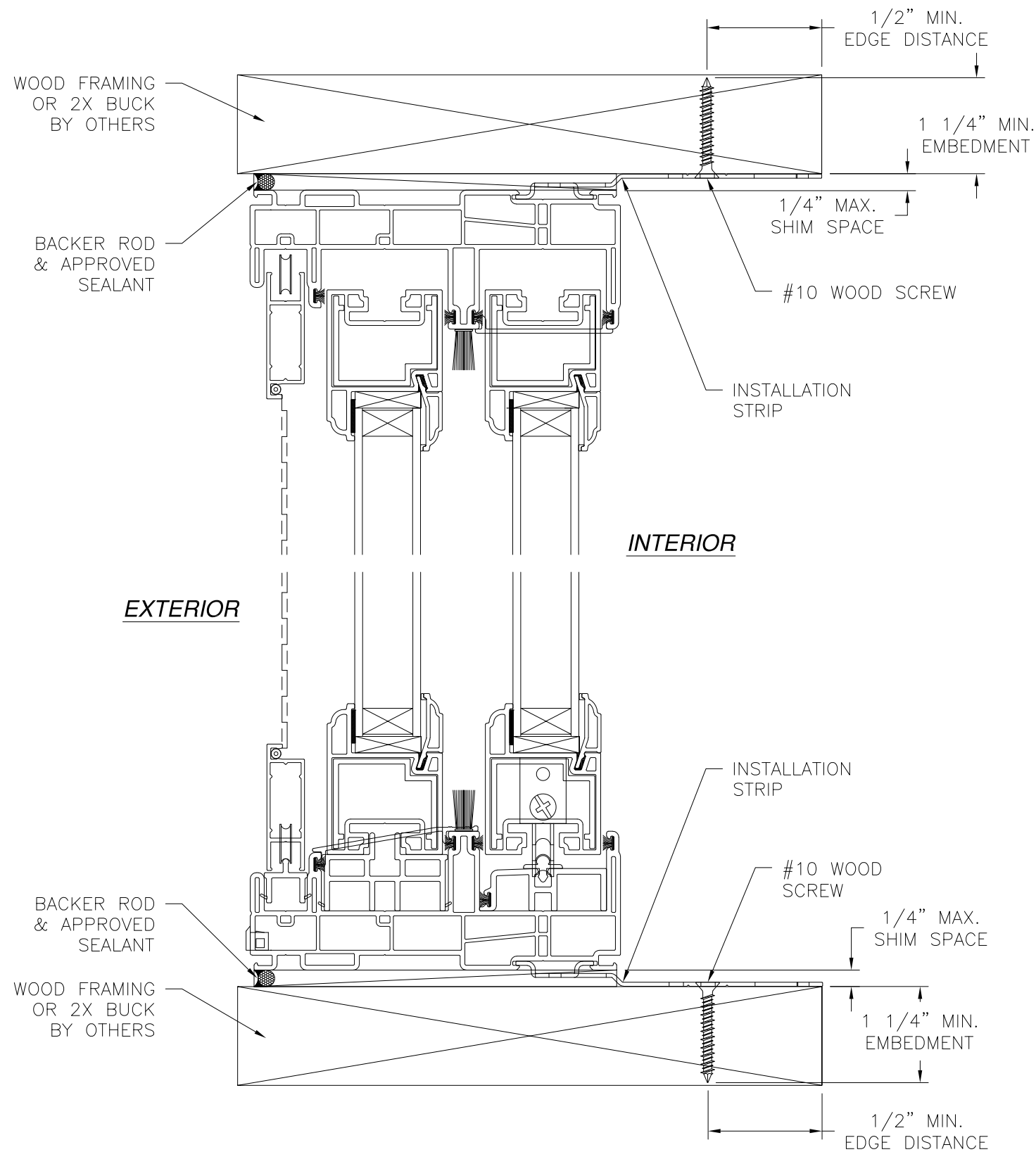
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| DRAWN:<br>A.R. | DWG NO.<br>08-03238 | REV<br>A         |
| SCALE<br>NTS   | DATE<br>04/11/18    | SHEET<br>7 OF 12 |

L. ROBERTO LOMAS P.E.  
 1432 WOODFORD RD LEWISVILLE, NC 27023  
 434-688-0609 rllomas@lrlomaspe.com

SIGNED: 11/12/2020



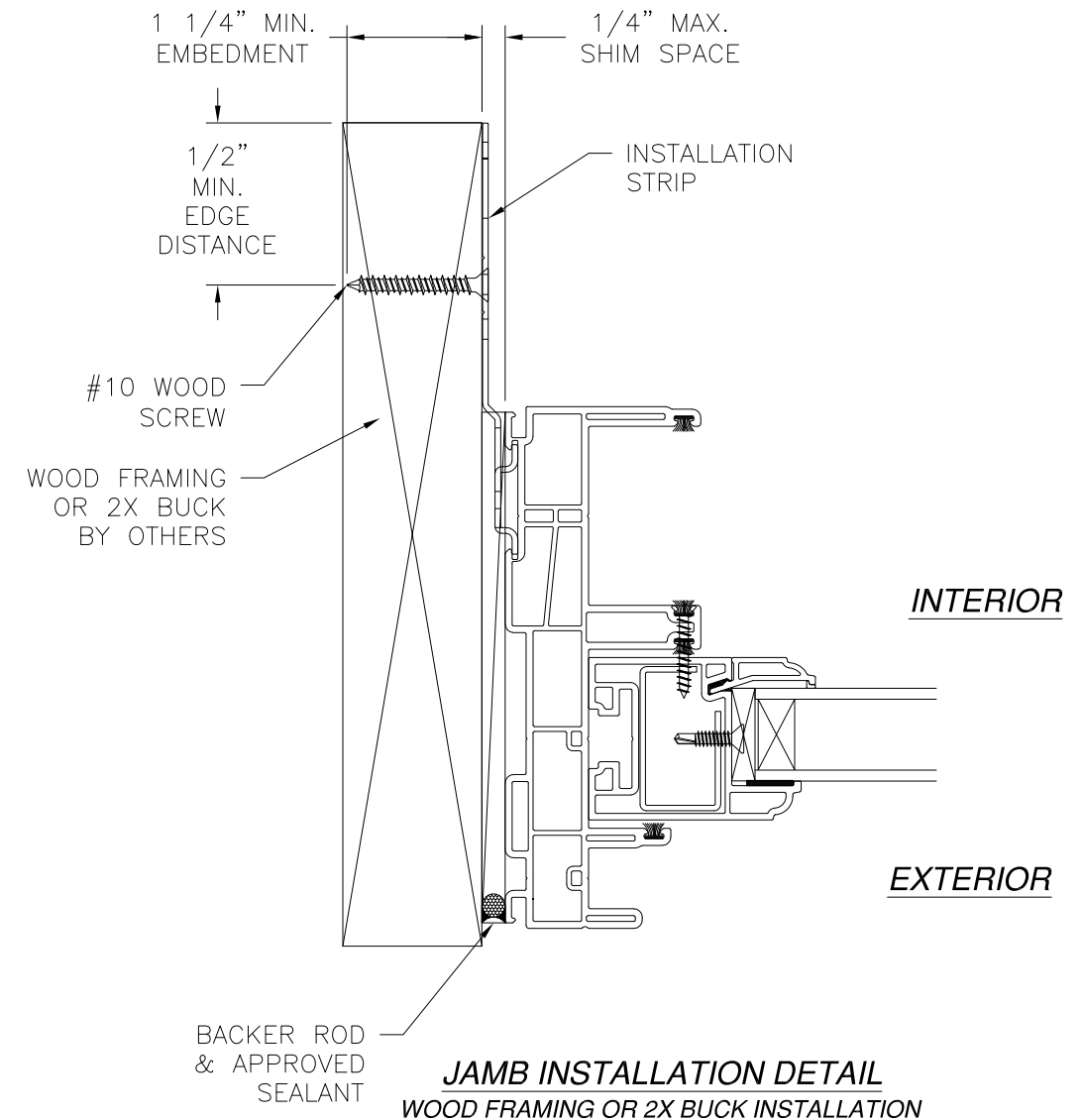
Luis R. Lomas P.E.  
FL No.: 62514



**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

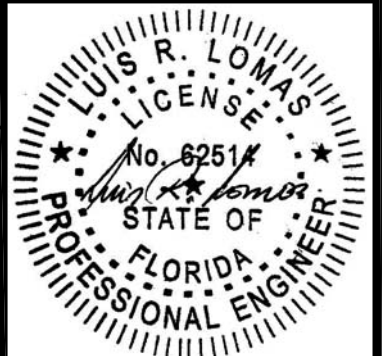
| REVISIONS |                              |            |          |
|-----------|------------------------------|------------|----------|
| REV       | DESCRIPTION                  | DATE       | APPROVED |
| A         | REVISED PER NEW REQUIREMENTS | 11/12/2020 | R.L.     |



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

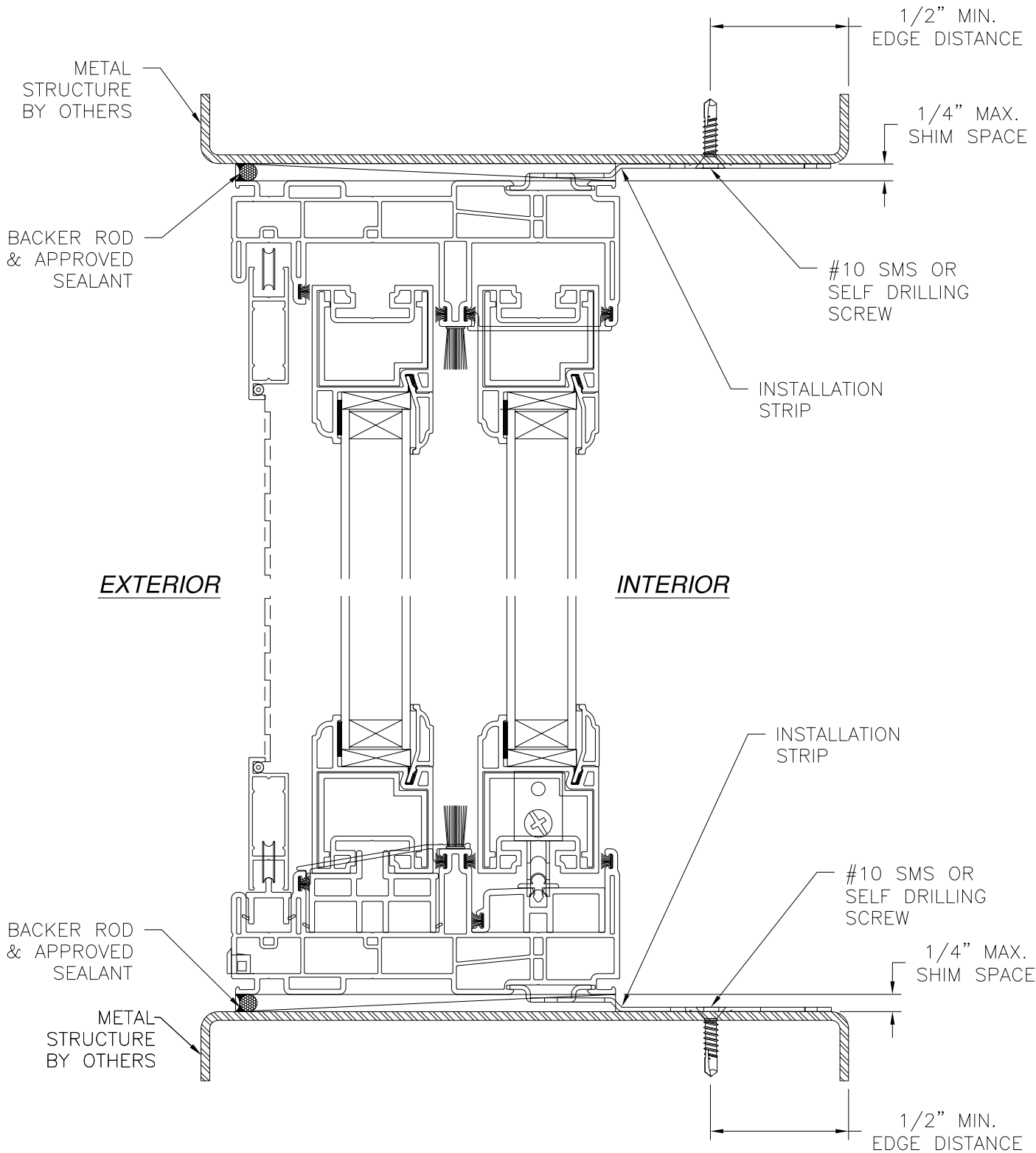
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| <b>SOLAR INNOVATIONS, INC.</b><br>31 ROBERTS ROAD<br>PINE GROVE, PA 17963                            |                     |                  |
| SERIES SI4100V VINYL COMPOSITE SGD<br>NON-IMPACT<br>STRIP INSTALLATION DETAILS                       |                     |                  |
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03238 | REV<br>A         |
| SCALE<br>NTS                                                                                         | DATE<br>04/11/18    | SHEET<br>8 OF 12 |
| L. ROBERTO LOMAS P.E.<br>1432 WOODFORD RD LEWISVILLE, NC 27023<br>434-688-0609 rllomas@lrlomaspe.com |                     |                  |

SIGNED: 11/12/2020



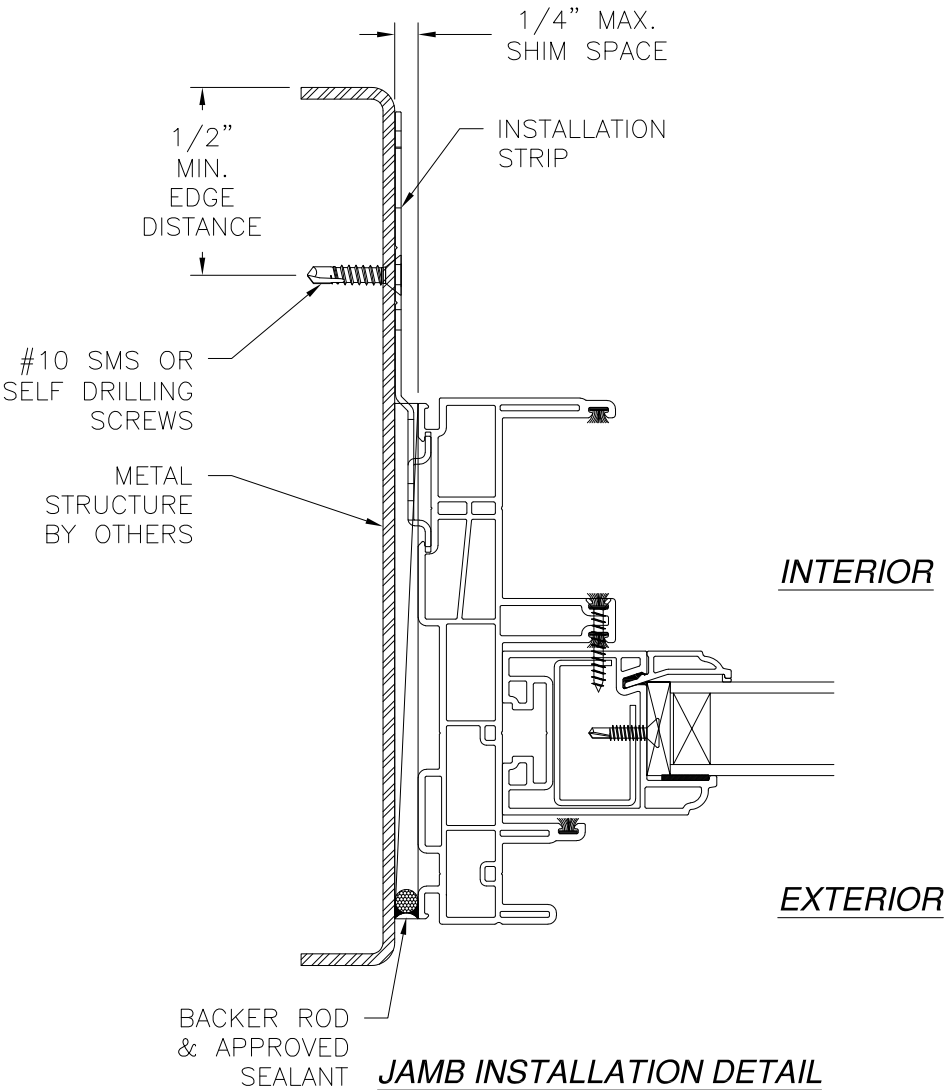
Luis R. Lomas P.E.  
FL No.: 62514

| REVISIONS |                              |            |          |
|-----------|------------------------------|------------|----------|
| REV       | DESCRIPTION                  | DATE       | APPROVED |
| A         | REVISED PER NEW REQUIREMENTS | 11/12/2020 | R.L.     |



**VERTICAL CROSS SECTION**  
METAL STRUCTURE 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



**JAMB INSTALLATION DETAIL**  
METAL STRUCTURE INSTALLATION

SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD  
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD  
NON-IMPACT  
STRIP INSTALLATION DETAILS

DRAWN: A.R.

DWG NO. 08-03238

REV A

SCALE NTS

DATE 04/11/18

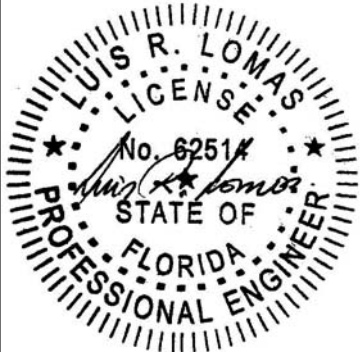
SHEET 9 OF 12

L. ROBERTO LOMAS P.E.

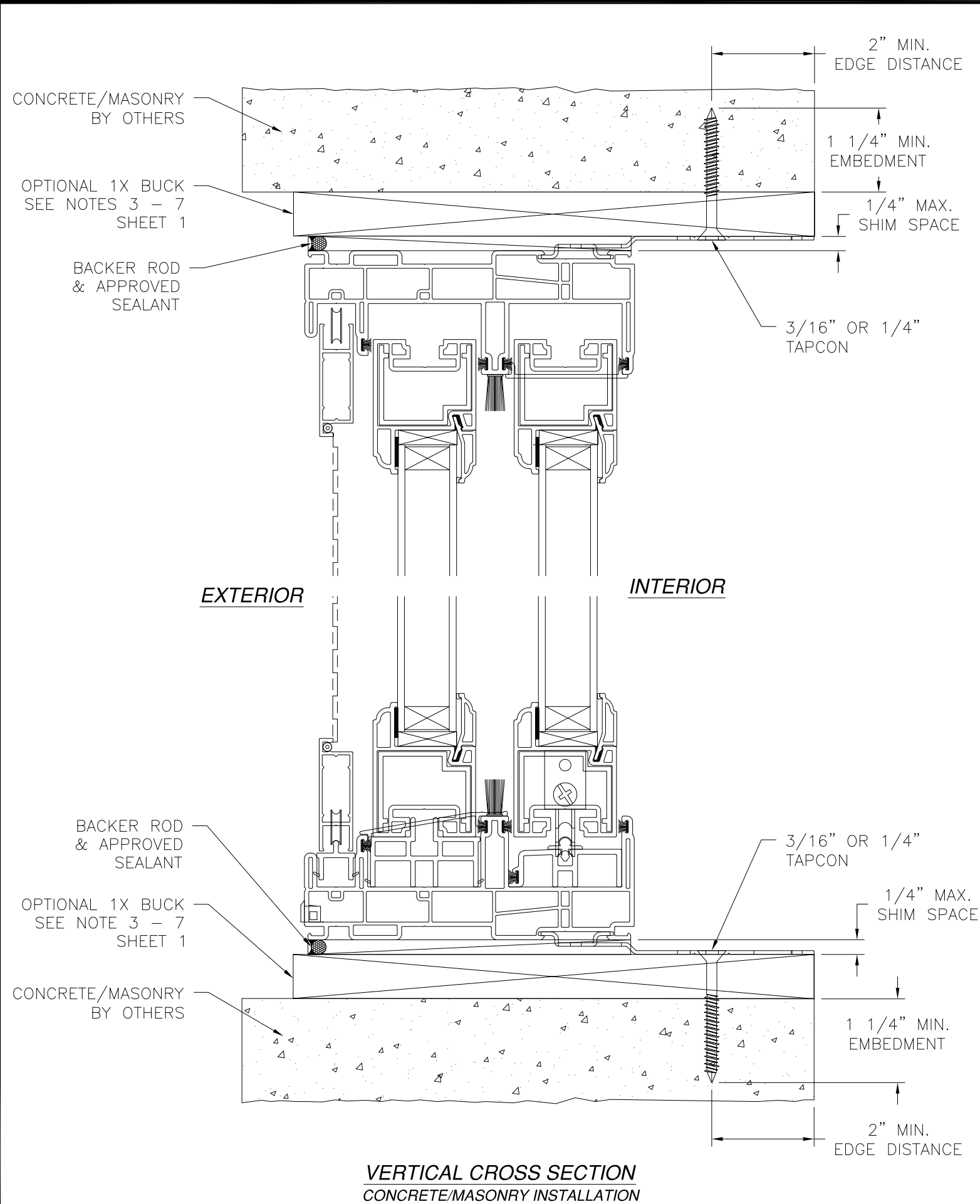
1432 WOODFORD RD LEWISVILLE, NC 27023

434-688-0609 rllomas@lrlomaspe.com

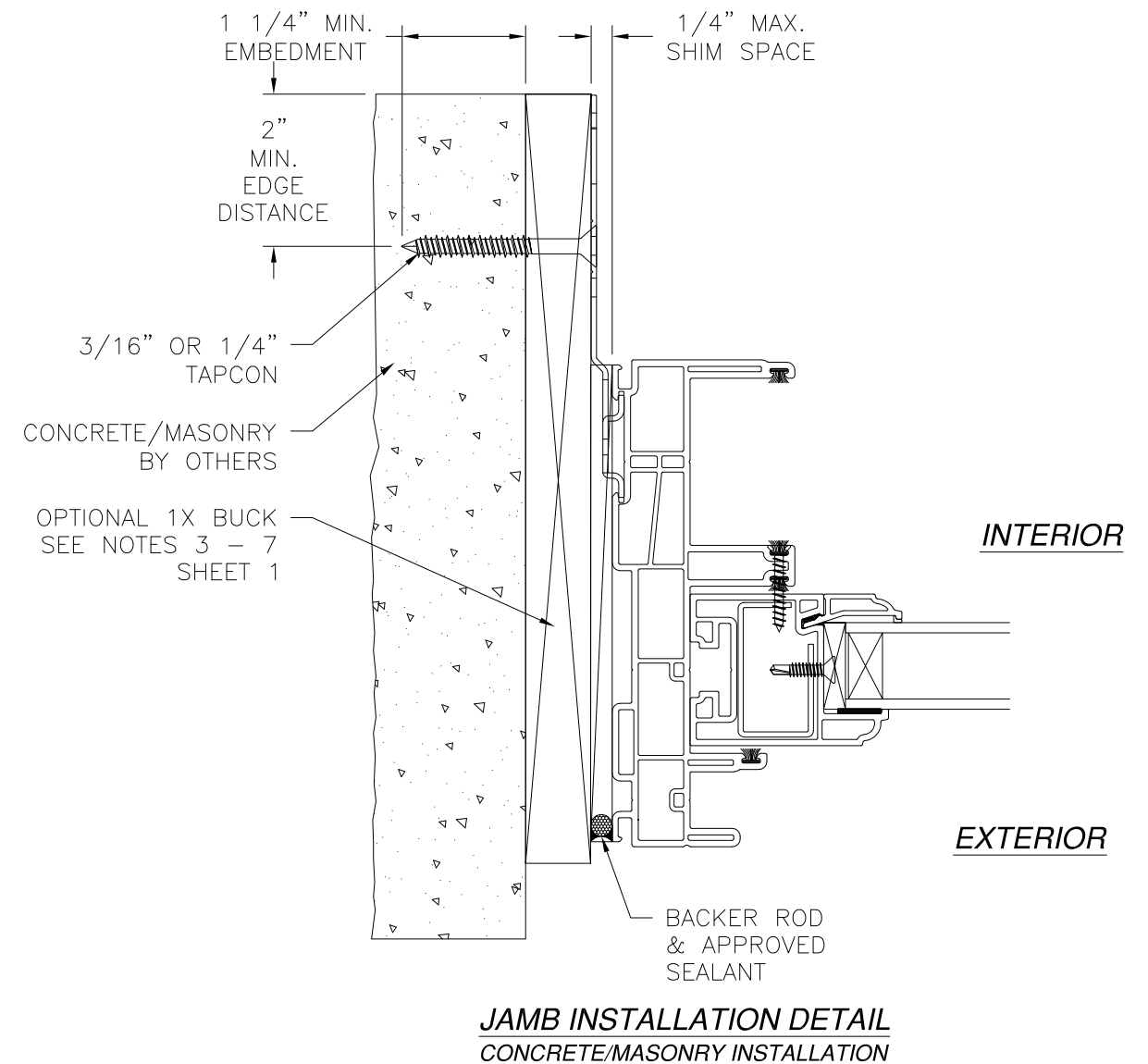
SIGNED: 11/12/2020



Luis R. Lomas P.E.  
FL No.: 62514



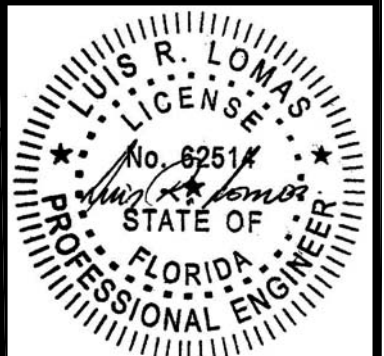
| REVISIONS |                              |            |          |
|-----------|------------------------------|------------|----------|
| REV       | DESCRIPTION                  | DATE       | APPROVED |
| A         | REVISED PER NEW REQUIREMENTS | 11/12/2020 | R.L.     |



**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

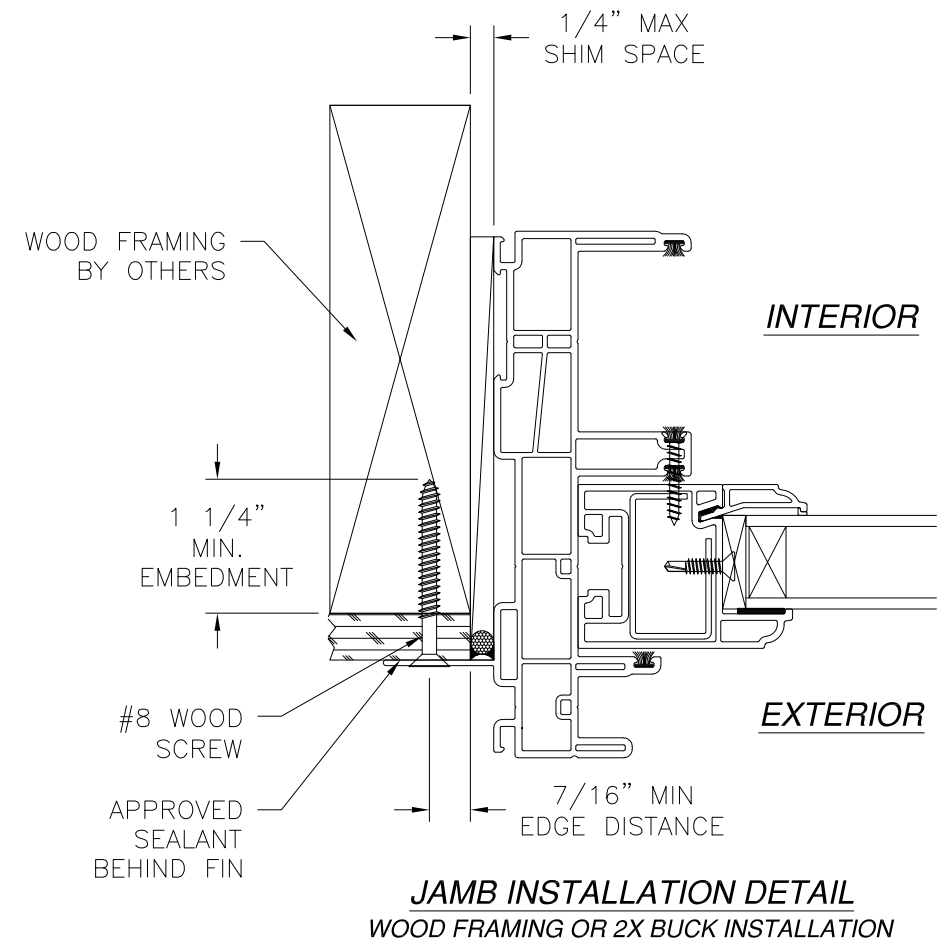
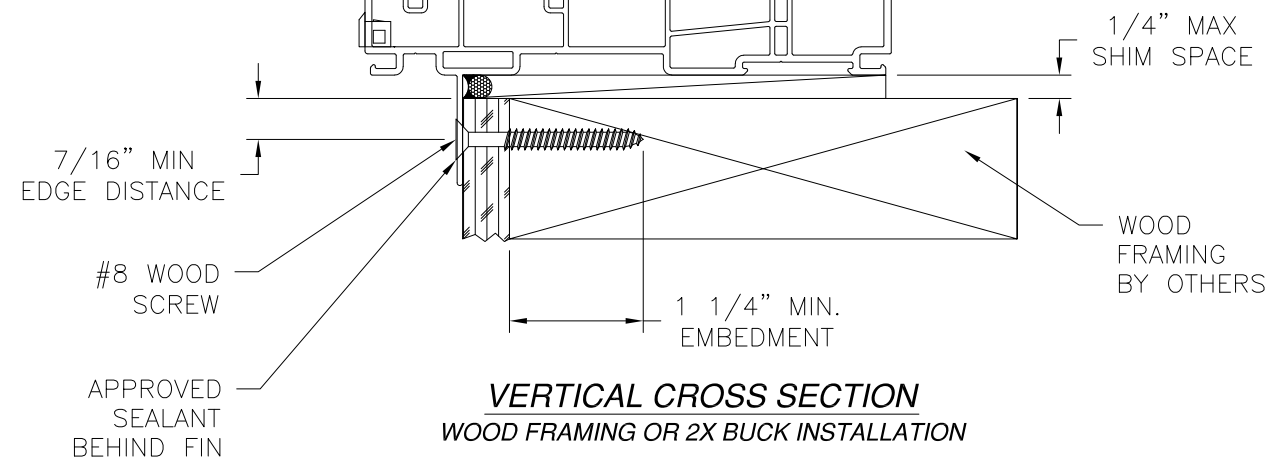
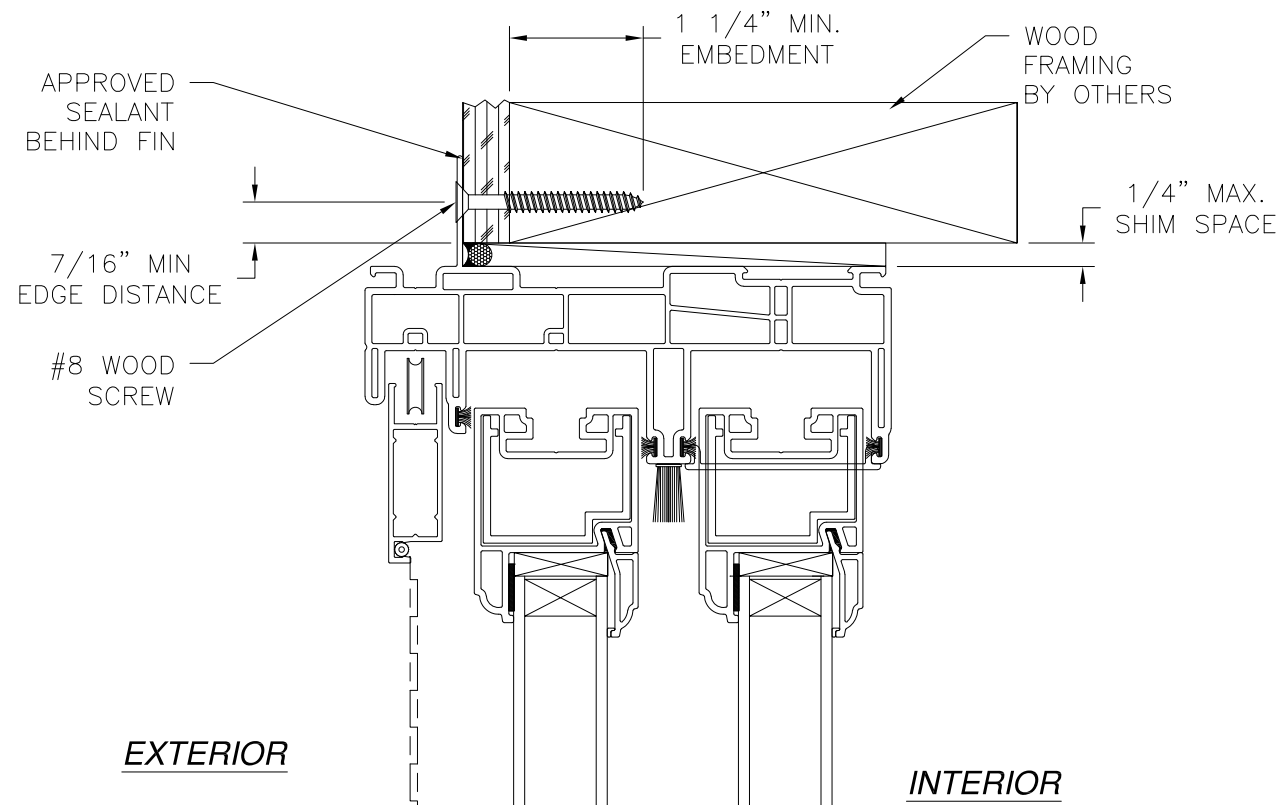
SIGNED: 11/12/2020

|                                                                                                      |                     |                   |
|------------------------------------------------------------------------------------------------------|---------------------|-------------------|
| SOLAR INNOVATIONS, INC.<br>31 ROBERTS ROAD<br>PINE GROVE, PA 17963                                   |                     |                   |
| SERIES SI4100V VINYL COMPOSITE SGD<br>NON-IMPACT<br>STRIP INSTALLATION DETAILS                       |                     |                   |
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03238 | REV<br>A          |
| SCALE<br>NTS                                                                                         | DATE<br>04/11/18    | SHEET<br>10 OF 12 |
| L. ROBERTO LOMAS P.E.<br>1432 WOODFORD RD LEWISVILLE, NC 27023<br>434-688-0609 rllomas@lrlomaspe.com |                     |                   |



Luis R. Lomas P.E.  
FL No.: 62514

| REVISIONS |                              |            |          |
|-----------|------------------------------|------------|----------|
| REV       | DESCRIPTION                  | DATE       | APPROVED |
| A         | REVISED PER NEW REQUIREMENTS | 11/12/2020 | R.L.     |

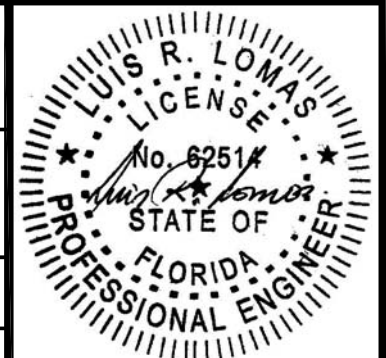


NOTES:

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

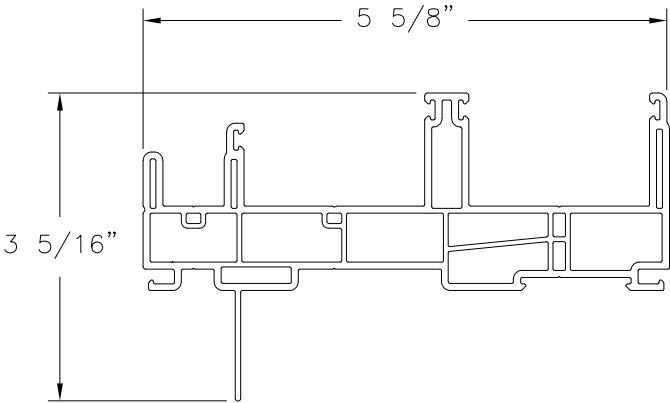
SIGNED: 11/12/2020

|                                                                                                      |                     |                   |
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| SOLAR INNOVATIONS, INC.                                                                              |                     |                   |
| 31 ROBERTS ROAD<br>PINE GROVE, PA 17963                                                              |                     |                   |
| SERIES SI4100V VINYL COMPOSITE SGD<br>NON-IMPACT<br>FIN INSTALLATION DETAILS                         |                     |                   |
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03238 | REV<br>A          |
| SCALE<br>NTS                                                                                         | DATE<br>04/11/18    | SHEET<br>11 OF 12 |
| L. ROBERTO LOMAS P.E.<br>1432 WOODFORD RD LEWISVILLE, NC 27023<br>434-688-0609 rllomas@lrlomaspe.com |                     |                   |

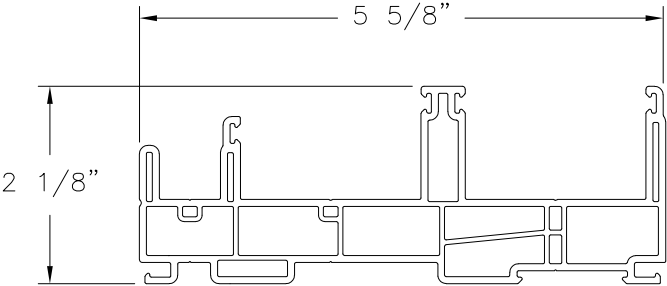


Luis R. Lomas P.E.  
FL No.: 62514

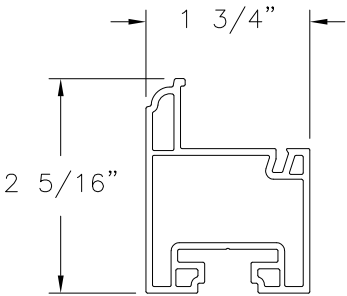
| REVISIONS |                              |            |          |
|-----------|------------------------------|------------|----------|
| REV       | DESCRIPTION                  | DATE       | APPROVED |
| A         | REVISED PER NEW REQUIREMENTS | 11/12/2020 | R.L.     |



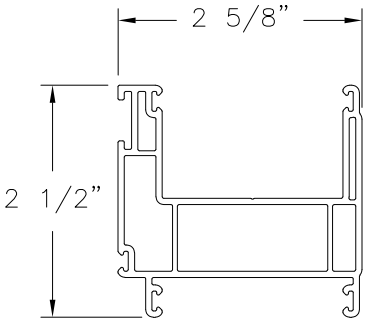
① **HEAD, JAMB AND SILL FRAME**  
**WITH FIN INSTALLATION**  
RIGID PVC (RH-S003C)



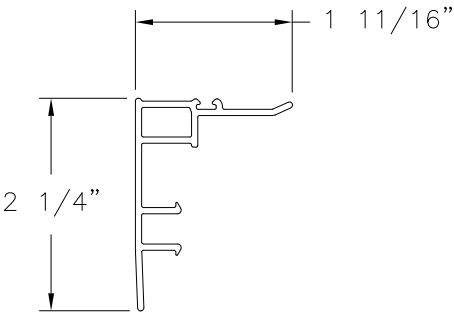
① **HEAD, JAMB AND SILL FRAME**  
**WITHOUT FIN INSTALLATION**  
RIGID PVC (RH-S003C)



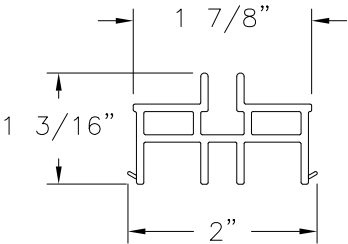
③ **SASH**  
RIGID PVC (RH-S019)



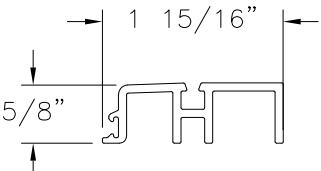
③③ **INSIDE ASTRAGAL**  
RIGID PVC (RH-S083)



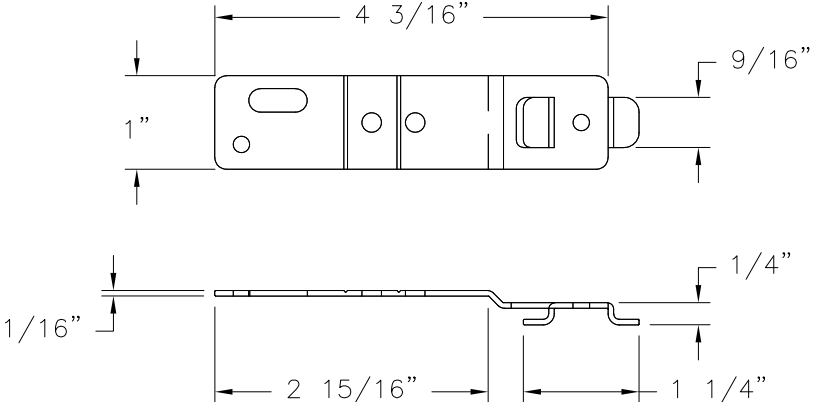
⑦ **SNAP-ON MEETING RAIL**  
RIGID PVC (RH-S080)



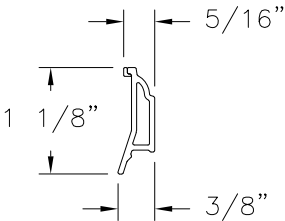
④ **SUPPORT BLOCK**  
RIGID PVC (RH-S008)



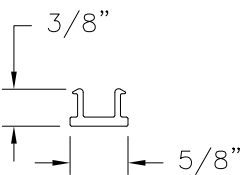
⑤ **SILL ADAPTOR**  
RIGID PVC (RH-S018)



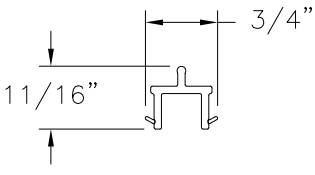
②⑦ **INSTALLATION STRIP**  
GALVANIZED STEEL G60



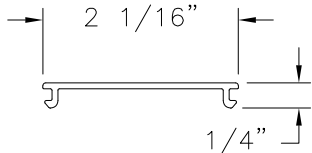
② **GLAZING BEAD**  
RIGID PVC (S021)



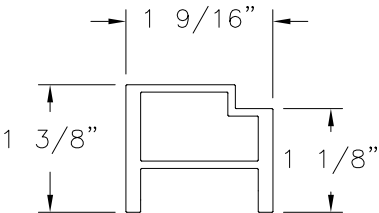
②⑨ **LOCK SIDE MOLDING**  
RIGID PVC (RS-S030)



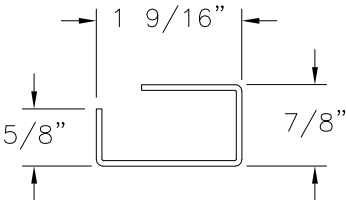
⑥ **SCREEN ADAPTOR**  
RIGID PVC (L7059)



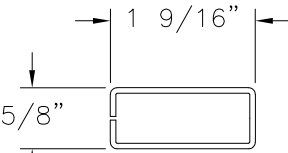
①① **SASH STOP**  
RIGID PVC (RH-S029)



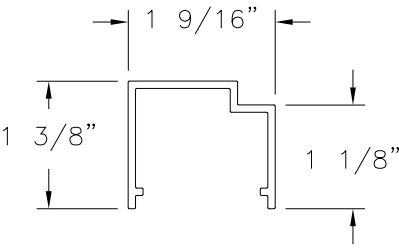
③⑧ **MEETING RAIL REINFORCEMENT**  
ALUMINUM 6063-T5 (V-15214)



①② **SASH REINFORCEMENT**  
STEEL (RF-S019)



③② **INSIDE ASTRAGAL**  
**REINFORCEMENT**  
STEEL (RF-S083)



③⑦ **HANDLE RAIL REINFORCEMENT**  
ALUMINUM 6063-T5 (S-15463)

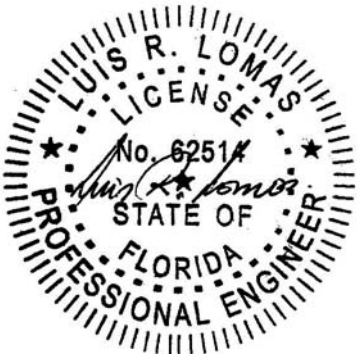
SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD  
PINE GROVE, PA 17963

SERIES SI4100V VINYL COMPOSITE SGD  
NON-IMPACT  
COMPONENTS

|                                                                                                      |                     |                |
|------------------------------------------------------------------------------------------------------|---------------------|----------------|
| DRAWN:<br>A.R.                                                                                       | DWG NO.<br>08-03238 | REV<br>A       |
| SCALE NTS                                                                                            | DATE 04/11/18       | SHEET 12 OF 12 |
| L. ROBERTO LOMAS P.E.<br>1432 WOODFORD RD LEWISVILLE, NC 27023<br>434-688-0609 rllomas@lrlomaspe.com |                     |                |

SIGNED: 11/12/2020



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