

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS AND COMPONENTS	12/14/2023	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: ALUMINUM 6063–T5.
11. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 5 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 OR #12 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16” ELCO ULTRACON WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 1/2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
15. FOR ANCHORING INTO METAL STRUCTURE USE #10 OR #12 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. GROUT FILLED MASONRY – STRENGTH CONFORMANCE TO ASTM C–90, GRADE N, TYPE 1 (OR GREATER).
- 17.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063–T5 .125” THICK MINIMUM

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 – 3	ELEVATION
4	DESIGN PRESSURE CHART
5 – 8	CROSS SECTIONS AND GLAZING DETAIL
9 – 12	INSTALLATION DETAILS
13	COMPONENTS

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

SERIES SI8000 G–3 MULTI TRACK 90° NO POST
ALUMINUM SLIDING GLASS DOOR – IMPACT
NOTES

DRAWN:
N.G.

DWG NO.
08–02496

REV
D

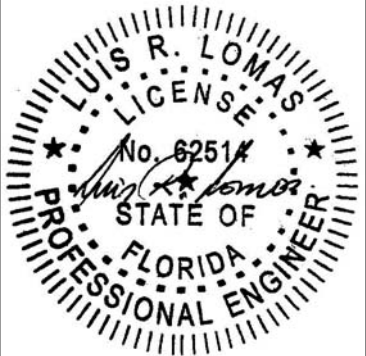
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DATE 02/27/15

SHEET 1 OF 13

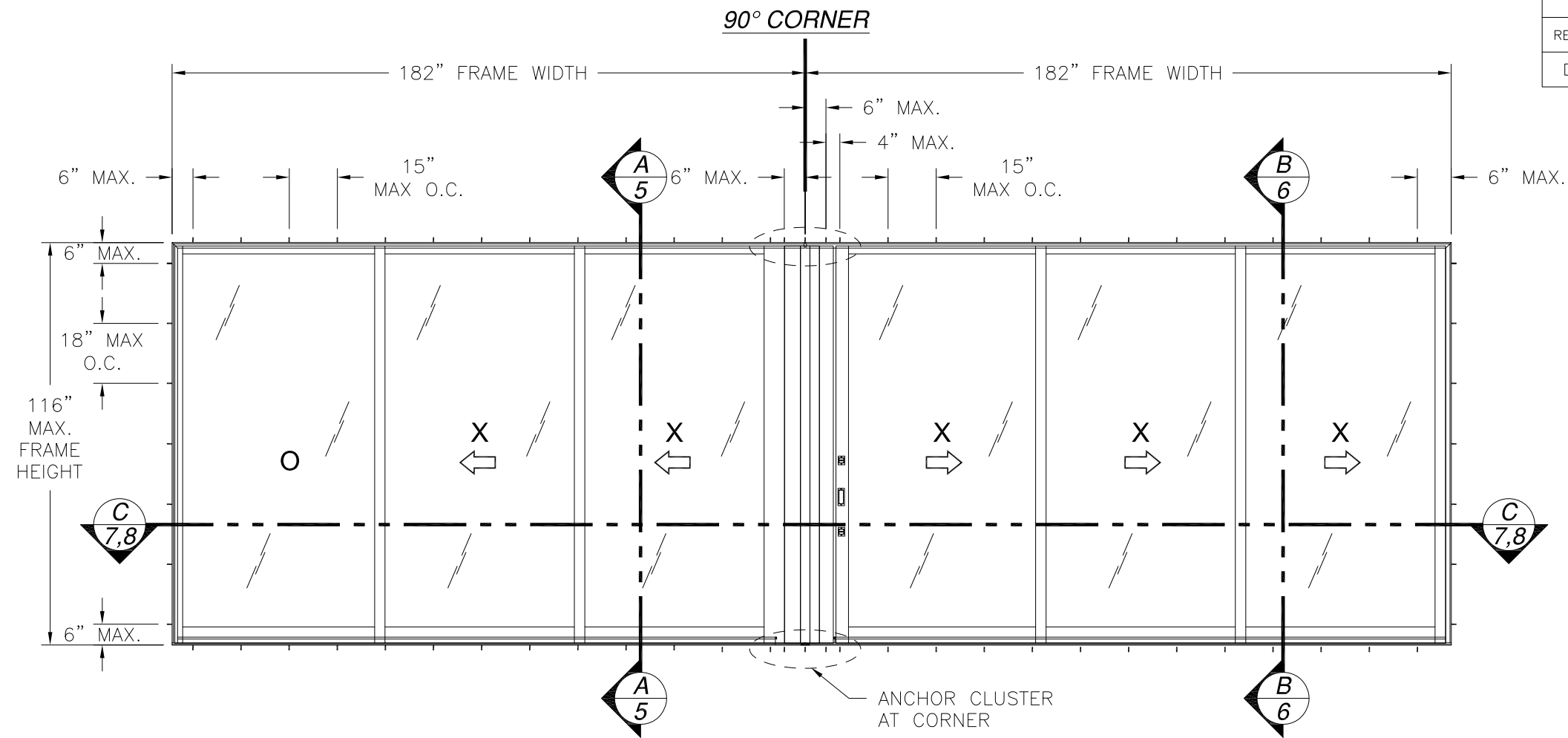
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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/15/2023



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS AND COMPONENTS	12/14/2023	R.L.



SERIES SI8000 G-3 MULTI TRACK 90° NO POST SLIDING GLASS DOOR - IMPACT

EXTERIOR VIEW

WITH #10 ANCHORS

UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 48.05 FT² AND USES VERTICAL CONDITIONS AS SHOWN IN APPROVAL DOCUMENT

DESIGN PRESSURE RATING	IMPACT RATING
+53.3/-60.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4

SEE CHART #1, SHEET 4

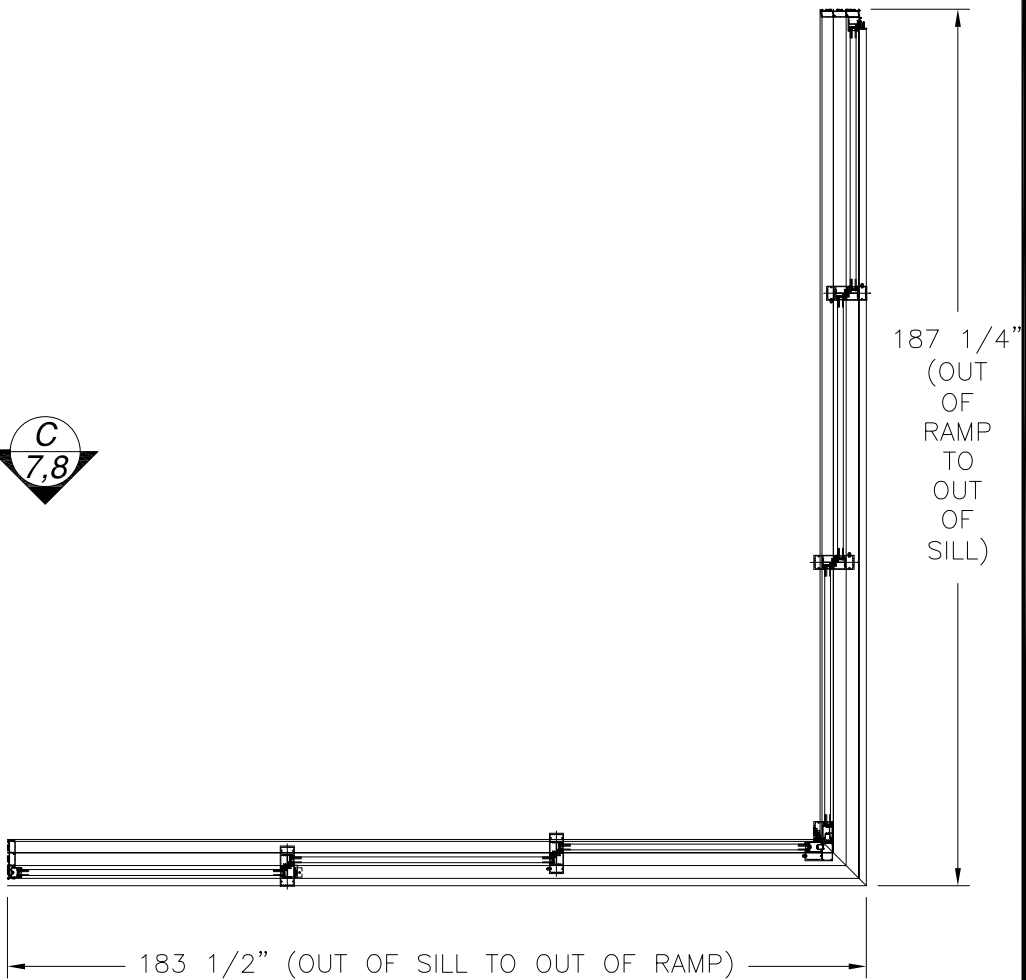
WHERE WATER RESISTANCE PENETRATION IS REQUIRED

DESIGN PRESSURE RATING	IMPACT RATING
±60.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4

SEE CHART #2, SHEET 4

WHERE WATER RESISTANCE PENETRATION IS NOT REQUIRED



PLAN LAYOUT

NOTES:

- PANEL SIZE: 60 1/2" X 114 3/8"
- D.L.O.: 54" X 107 3/8"

HARDWARE SCHEDULE

A.	SINGLE HANDLE 2 POINT CLAW-TYPE LOCK ON LOCK STILE 32" & 52" FROM BOTTOM RAIL
B.	METAL KEEPER AT LOCKS
C.	DUAL STAINLESS STEEL ROLLER AT EACH END OF BOTTOM RAILS
D.	(OPTIONAL) POLYMER OR SS ROLLER AT EACH END OF BOTTOM RAILS
E.	RUBBER FILLER AT SILL TRACKS IN OPERABLE AREAS
F.	EXTRUDED ALUMINUM COVERS AT EXPOSED TRACKS OF JAMBS & HEAD
G.	EXTRUDED ALUMINUM WEATHER STRIP HOLDER/ASTRAGAL 90° CORNER PANEL SECTIONS
H.	METAL RECESSED HANDLE AT 90° CORNER MEETING STILE
I.	EXTRUDED ALUMINUM 90° NO POST CORNER
J.	EXTRUDED ALUMINUM ANGLE UNDER SIDE OF SILL/VERTICAL SILL LEG

SOLAR INNOVATIONS, INC.

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SERIES SI8000 G-3 MULTI TRACK 90° NO POST
ALUMINUM SLIDING GLASS DOOR - IMPACT
ELEVATION

DRAWN: N.G.	DWG NO. 08-02496	REV D
SCALE NTS	DATE 02/27/15	SHEET 2 OF 13

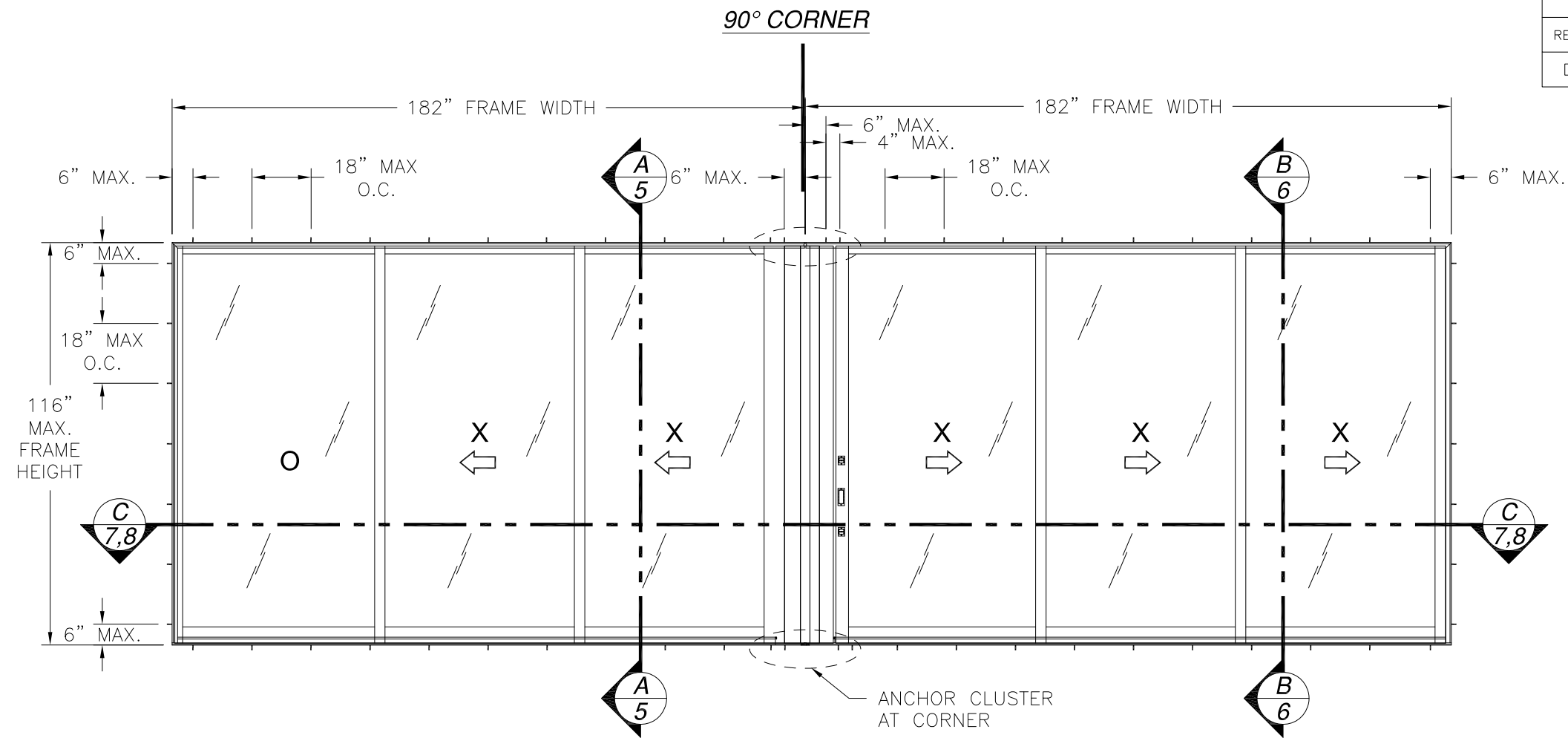
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SERIES SI8000 G-3 MULTI TRACK 90° NO POST SLIDING GLASS DOOR - IMPACT

EXTERIOR VIEW

WITH #12 ANCHORS AND 3/16" ELCO ULTRACON

UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS ARE APPROVED AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 48.05 FT² AND USES VERTICAL CONDITIONS AS SHOWN IN APPROVAL DOCUMENT

DESIGN PRESSURE RATING	IMPACT RATING
+53.3/-60.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4

SEE CHART #1, SHEET 4

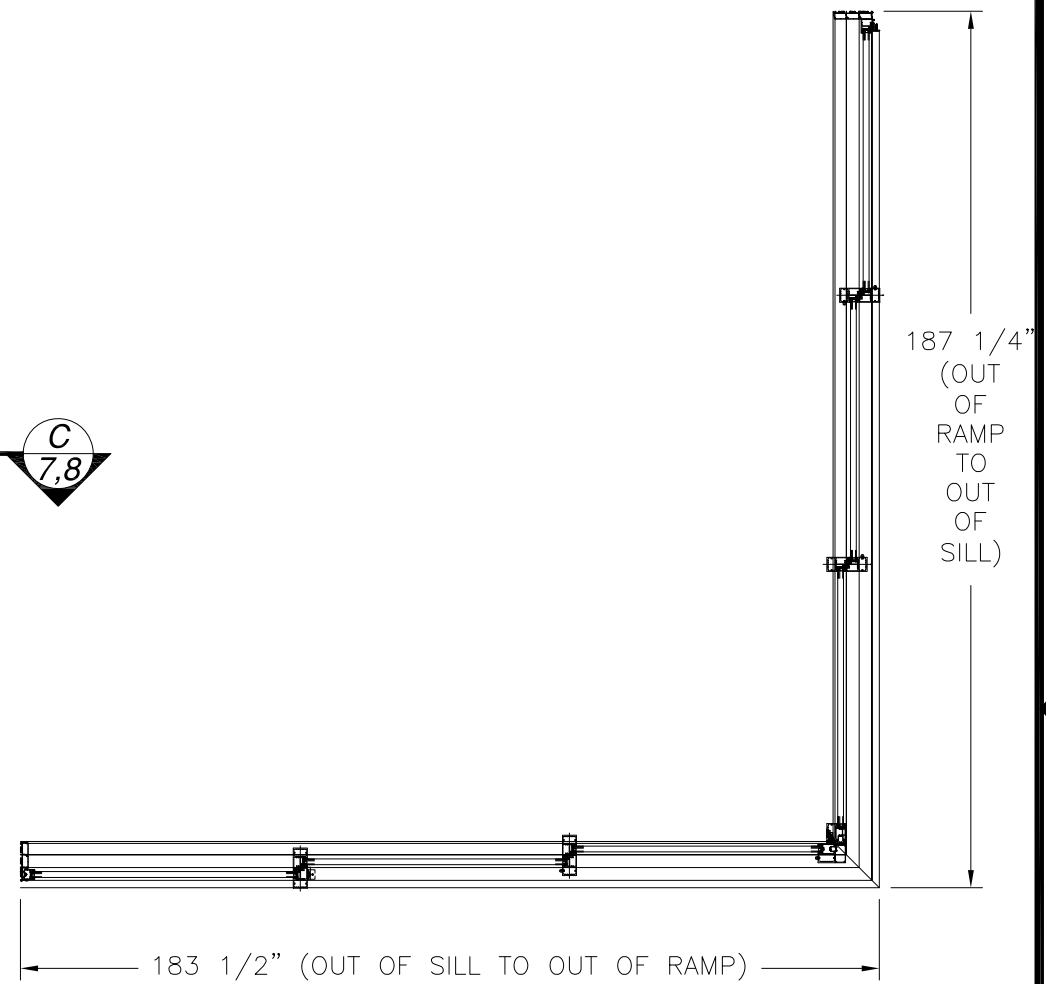
WHERE WATER RESISTANCE PENETRATION IS REQUIRED

DESIGN PRESSURE RATING	IMPACT RATING
±60.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4

SEE CHART #2, SHEET 4

WHERE WATER RESISTANCE PENETRATION IS NOT REQUIRED



PLAN LAYOUT

- NOTES:
- PANEL SIZE: 60 1/2" X 114 3/8"
 - D.L.O.: 54" X 107 3/8"

HARDWARE SCHEDULE

A.	SINGLE HANDLE 2 POINT CLAW-TYPE LOCK ON LOCK STILE 32" & 52" FROM BOTTOM RAIL
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SOLAR INNOVATIONS, INC.

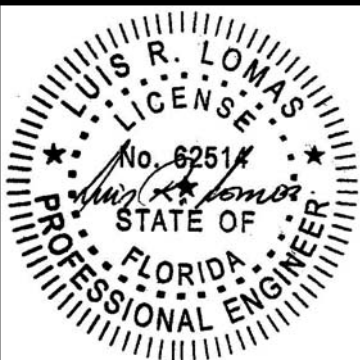
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI8000 G-3 MULTI TRACK 90° NO POST
ALUMINUM SLIDING GLASS DOOR - IMPACT
ELEVATION

DRAWN: N.G.	DWG NO. 08-02496	REV D
SCALE NTS	DATE 02/27/15	SHEET 3 OF 13

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Chart #1
For units with glass A & B
Where water penetration resistance is required

Maximum Design pressure (psf)																
Panel Height (in)	Single Panel Width (in)															
	24.0		30.0		36.0		42.0		48.0		54.0		60.5		66.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0
84.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0
90.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0
96.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0
102.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0
108.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	-	-
114.38	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	-	-
120.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	51.6	56.3	-	-	-	-
126.0	53.3	60.0	53.3	60.0	53.3	60.0	53.3	60.0	49.0	53.5	44.3	48.3	-	-	-	-
132.0	53.3	60.0	53.3	60.0	53.3	60.0	47.9	52.2	42.4	46.3	-	-	-	-	-	-
138.0	53.3	60.0	53.3	60.0	48.2	52.6	41.7	45.5	36.9	40.3	-	-	-	-	-	-
144.00	53.3	60.0	50.4	55.0	42.3	46.2	36.6	39.9	32.4	35.3	-	-	-	-	-	-
150.0	53.3	60.0	44.5	48.6	37.4	40.8	32.3	35.2	-	-	-	-	-	-	-	-
156.0	49.2	53.6	39.5	43.1	33.2	36.2	28.7	31.3	-	-	-	-	-	-	-	-

Chart #2
For units with glass A & B
Where water penetration resistance is not required

Maximum Design pressure (psf)																
Panel Height (in)	Single Panel Width (in)															
	24.0		30.0		36.0		42.0		48.0		54.0		60.5		66.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
84.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
90.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
96.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
102.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	56.5	60.0
108.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	58.2	60.0	-	-
114.38	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	59.3	60.0	55.0	60.0	-	-	-
120.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	57.1	60.0	51.6	56.3	-	-	-	-
126.0	60.0	60.0	60.0	60.0	60.0	60.0	55.2	60.0	49.0	53.5	44.3	48.3	-	-	-	-
132.0	60.0	60.0	60.0	60.0	55.2	60.0	47.9	52.2	42.4	46.3	-	-	-	-	-	-
138.0	60.0	60.0	57.4	60.0	48.2	52.6	41.7	45.5	36.9	40.3	-	-	-	-	-	-
144.00	60.0	60.0	50.4	55.0	42.3	46.2	36.6	39.9	32.4	35.3	-	-	-	-	-	-
150.0	55.3	60.0	44.5	48.6	37.4	40.8	32.3	35.2	-	-	-	-	-	-	-	-
156.0	49.2	53.6	39.5	43.1	33.2	36.2	28.7	31.3	-	-	-	-	-	-	-	-

SIGNED: 12/15/2023

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI8000 G-3 MULTI TRACK 90° NO POST
ALUMINUM SLIDING GLASS DOOR – IMPACT
DESIGN PRESSURE CHART

DRAWN:
N.G.

DWG NO.
08-02496

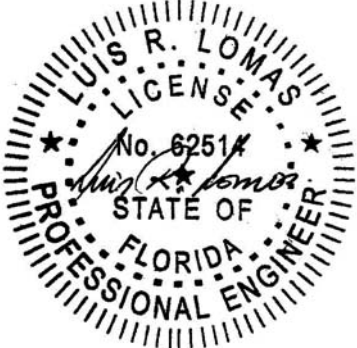
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SCALE NTS

DATE 02/27/15

SHEET 4 OF 13

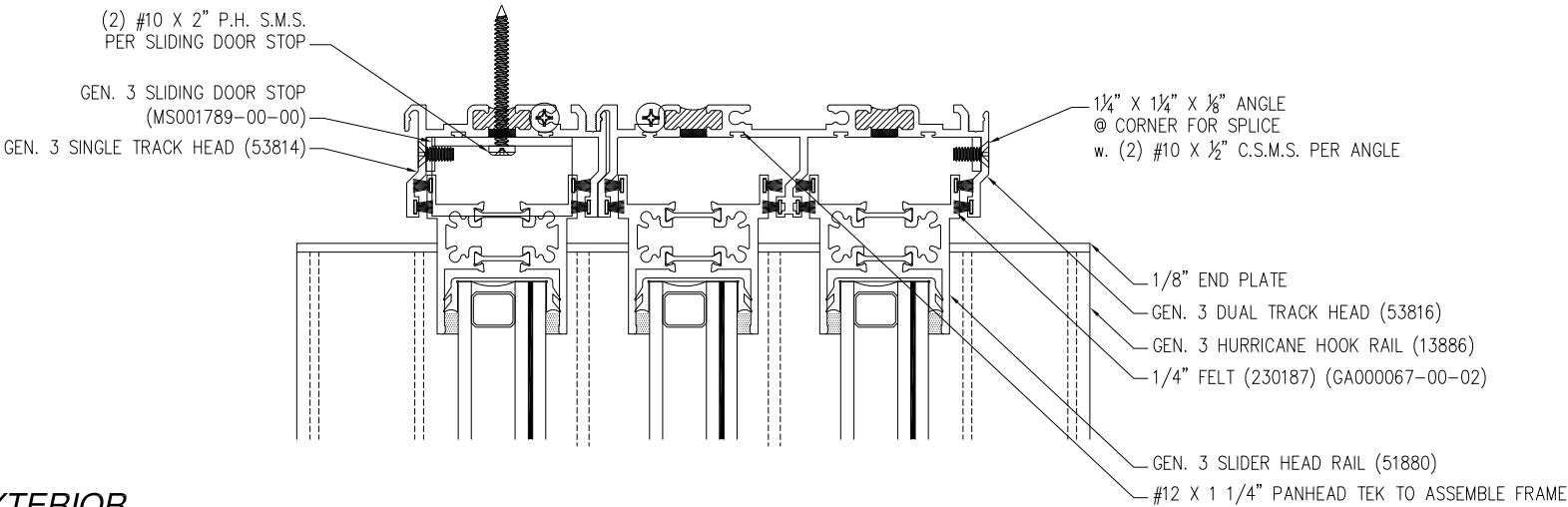
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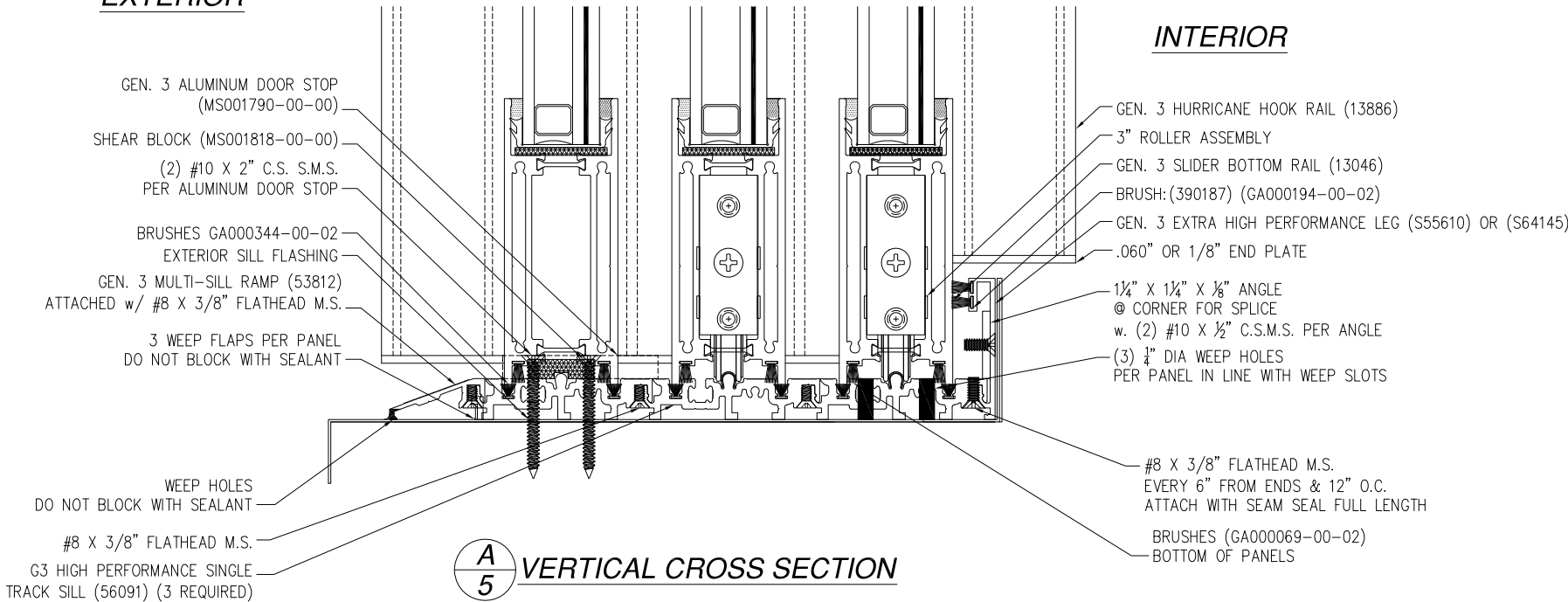
Luis R. Lomas P.E.
FL No.: 62514

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 9 - 12

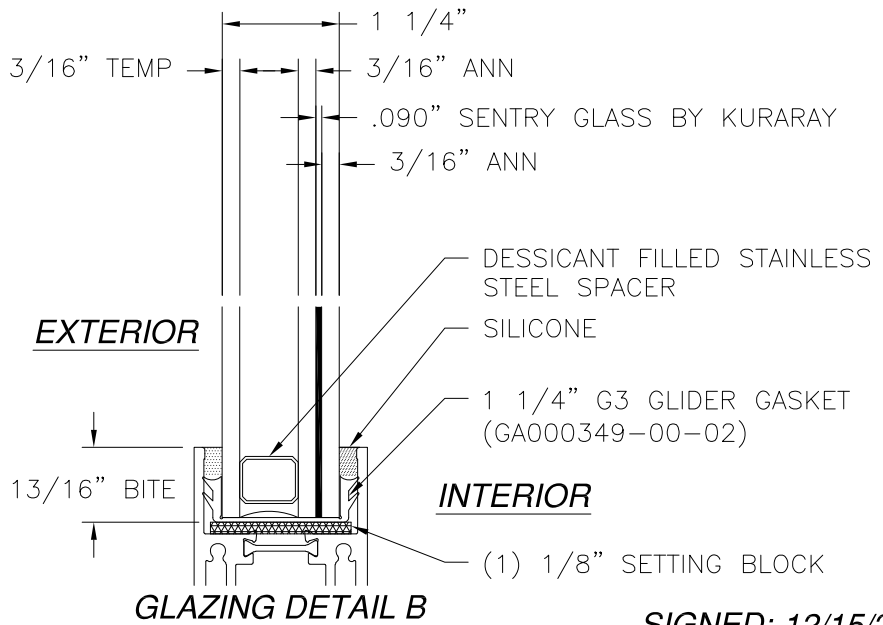
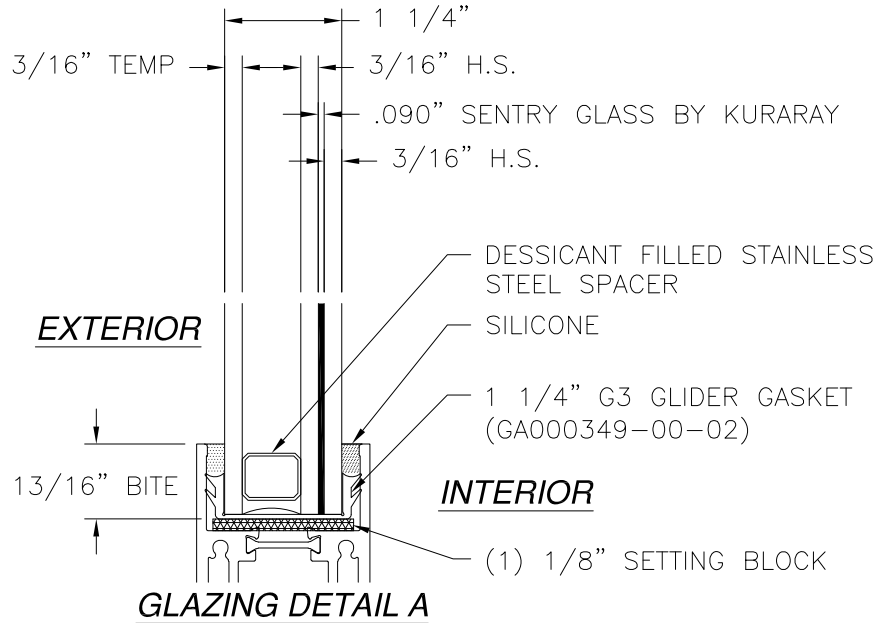
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EXTERIOR



A
5 VERTICAL CROSS SECTION



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PINE GROVE, PA 17963

SERIES SI8000 G-3 MULTI TRACK 90° NO POST
ALUMINUM SLIDING GLASS DOOR - IMPACT
VERTICAL CROSS SECTION AND GLAZING DETAILS

DRAWN: N.G.	DWG NO. 08-02496	REV D
SCALE NTS	DATE 02/27/15	SHEET 5 OF 13

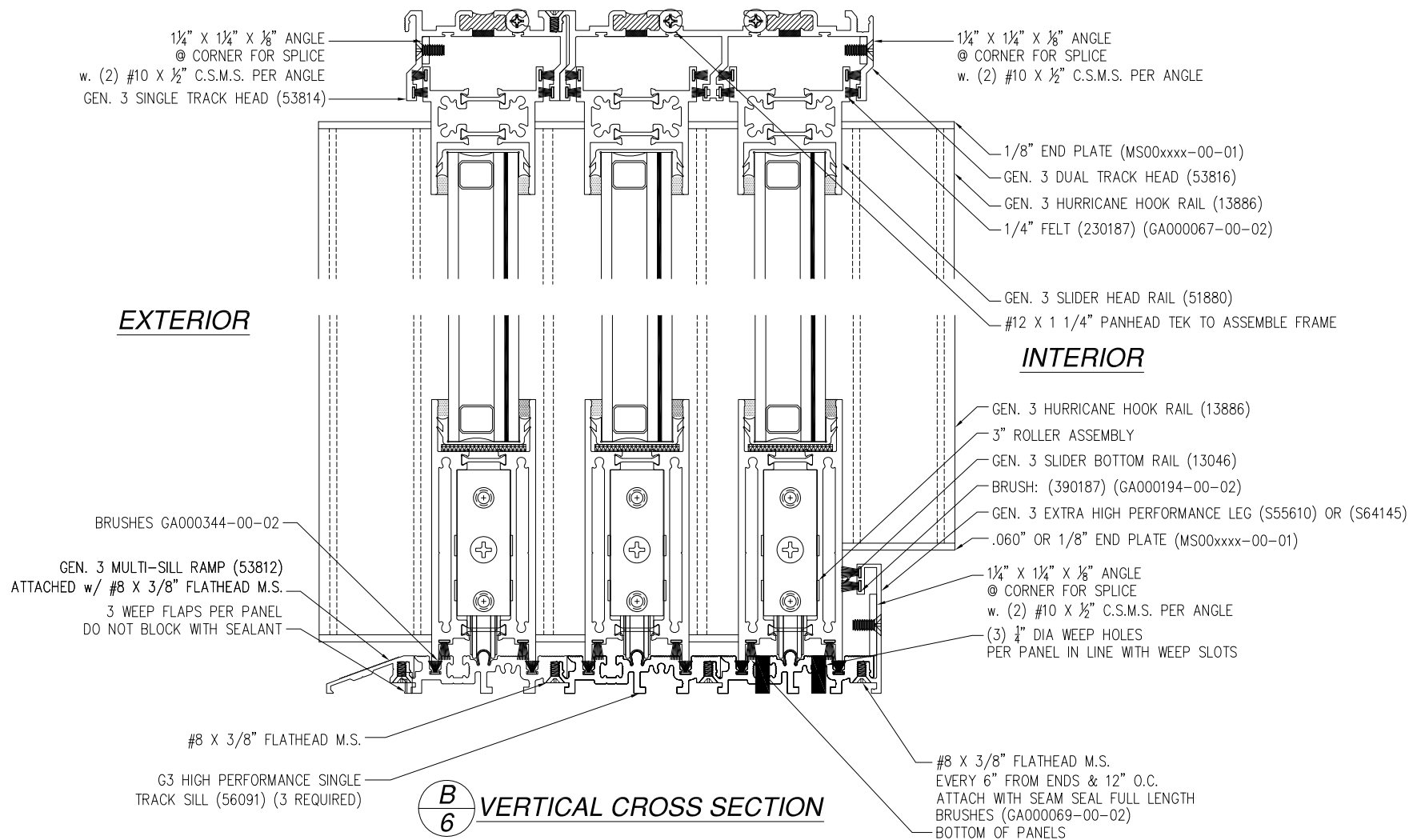
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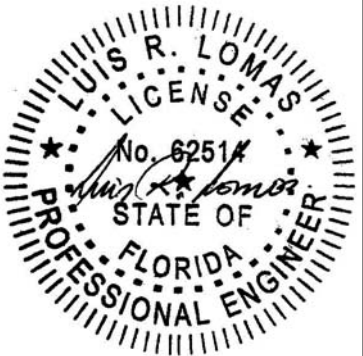
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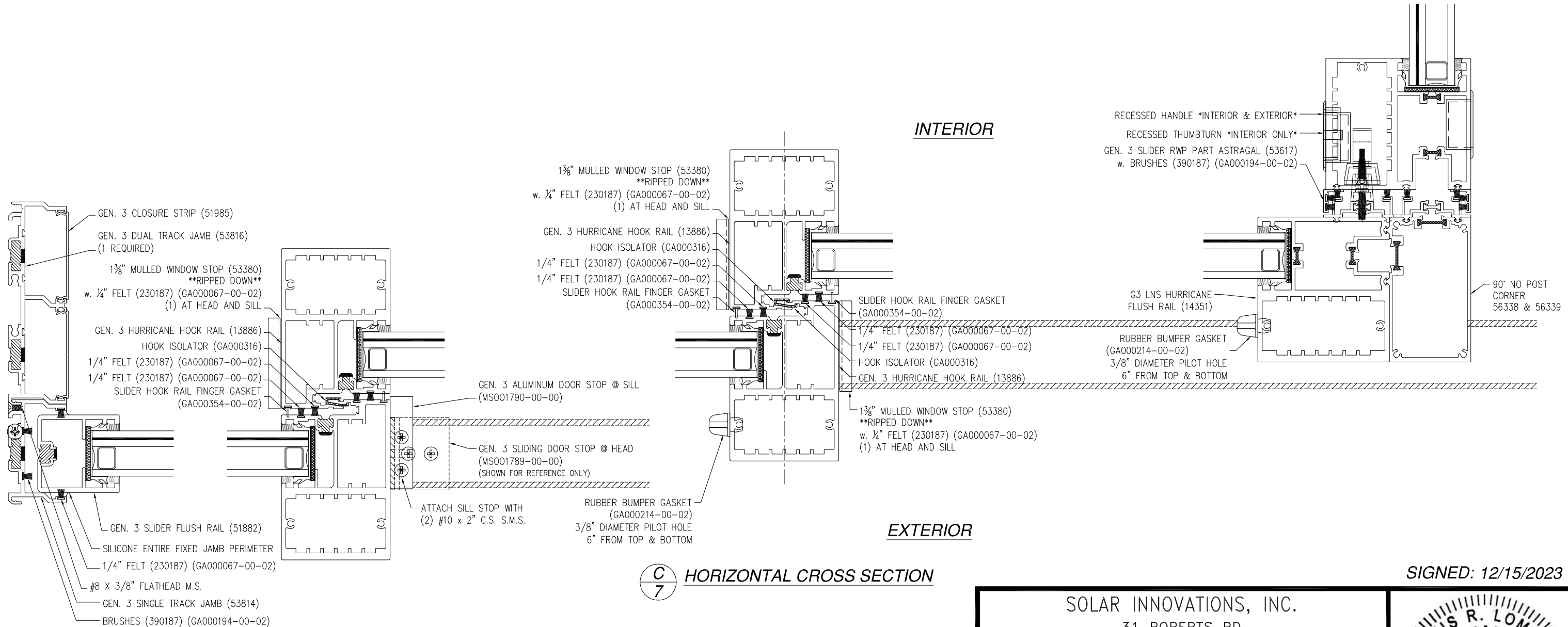
SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI8000 G-3 MULTI TRACK 90° NO POST ALUMINUM SLIDING GLASS DOOR - IMPACT VERTICAL CROSS SECTION		
DRAWN: N.G.	DWG NO. 08-02496	REV D
SCALE NTS	DATE 02/27/15	SHEET 6 OF 13
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C
7 HORIZONTAL CROSS SECTION

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PINE GROVE, PA 17963

SERIES SI8000 G-3 MULTI TRACK 90° NO POST
ALUMINUM SLIDING GLASS DOOR – IMPACT
HORIZONTAL CROSS SECTION

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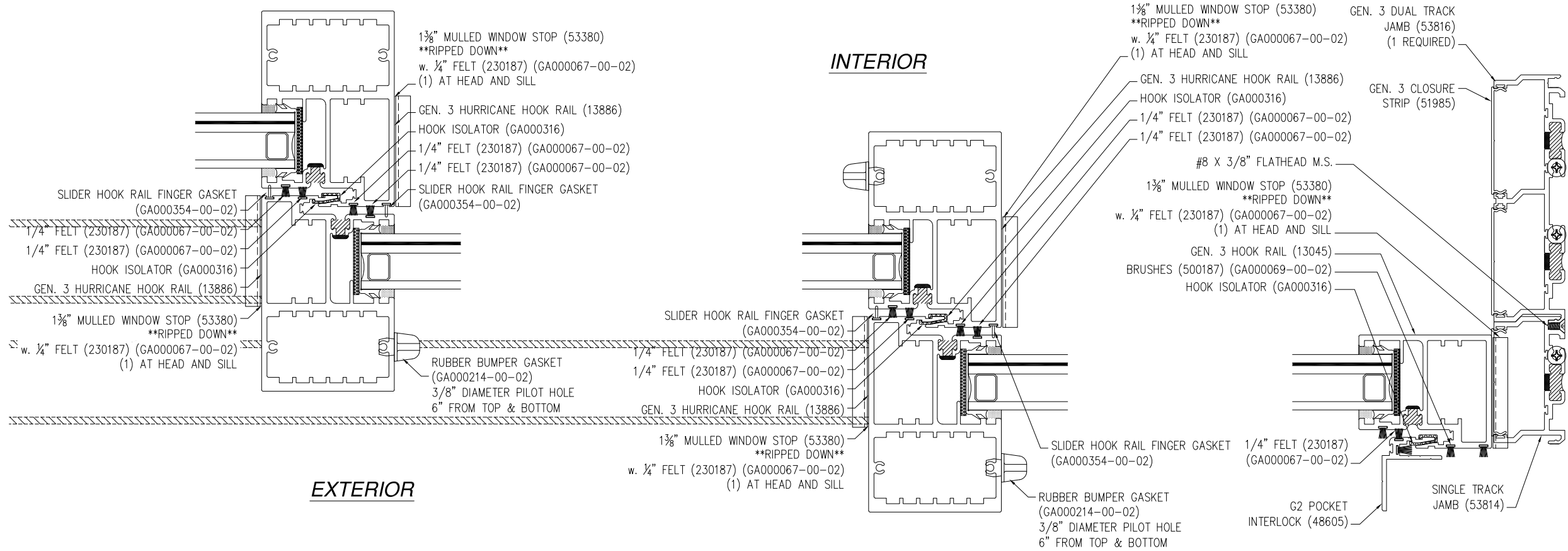
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C
8 HORIZONTAL CROSS SECTION

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SERIES SI8000 G-3 MULTI TRACK 90° NO POST
ALUMINUM SLIDING GLASS DOOR – IMPACT
HORIZONTAL CROSS SECTION

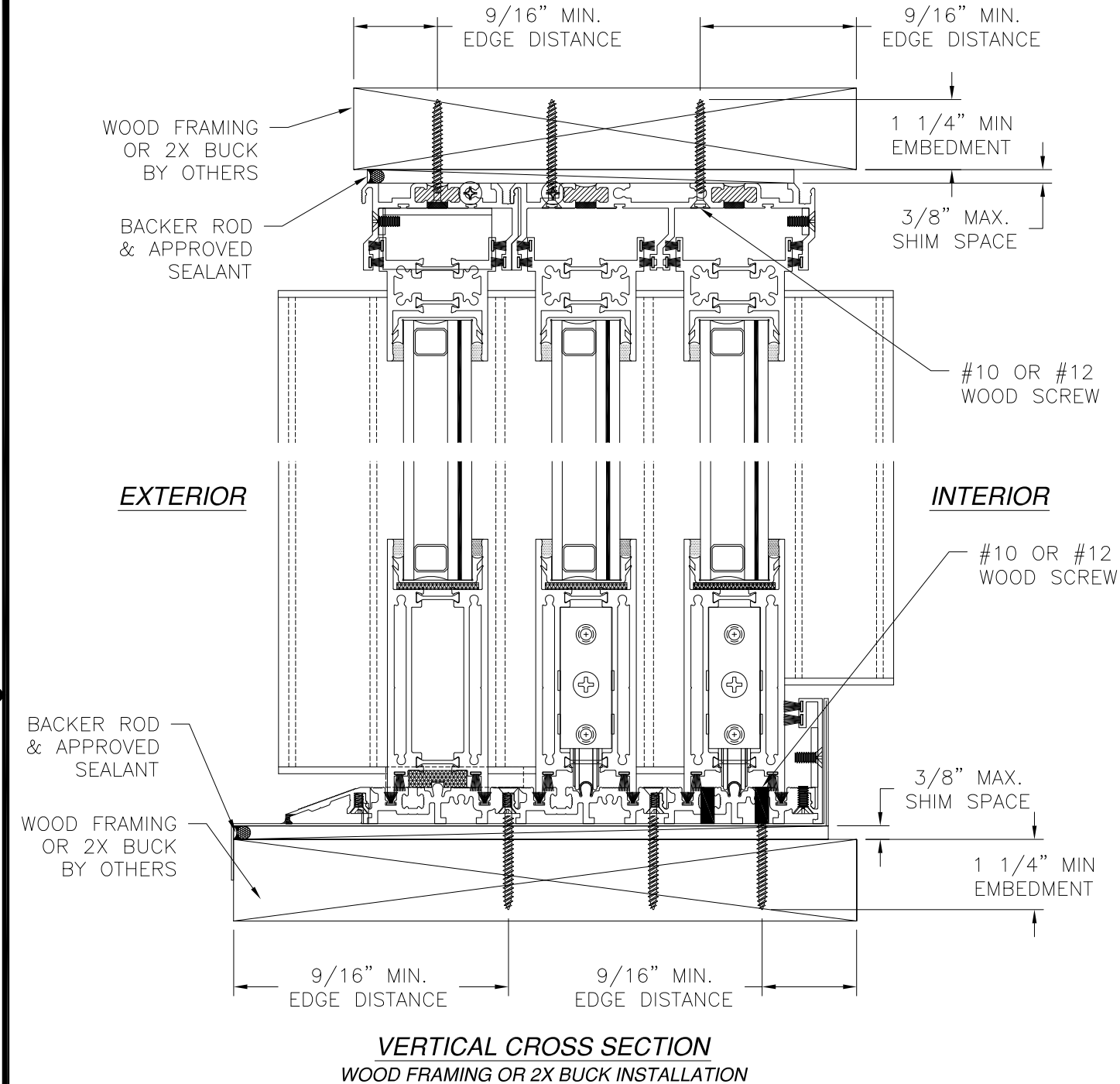
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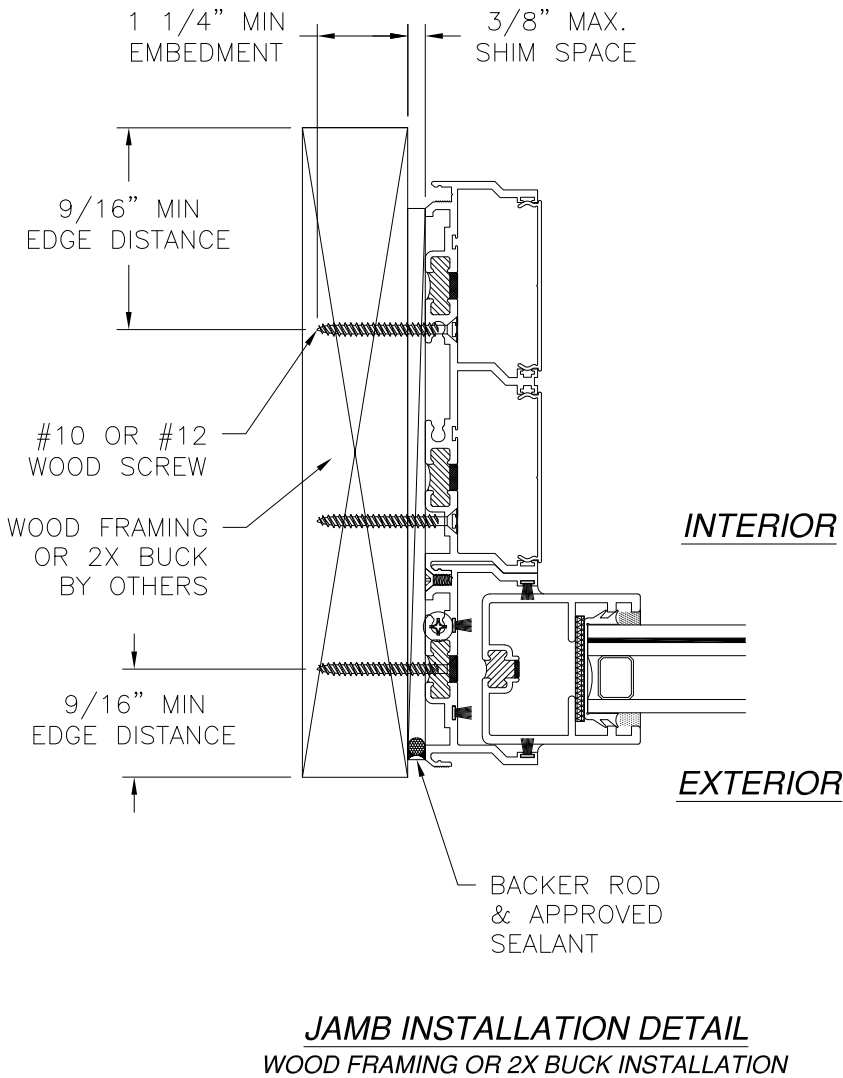


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NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112



SOLAR INNOVATIONS, INC.
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SERIES SI8000 G-3 MULTI TRACK 90° NO POST
ALUMINUM SLIDING GLASS DOOR – IMPACT
INSTALLATION DETAILS

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SCALE NTS	DATE 02/27/15	SHEET 9 OF 13

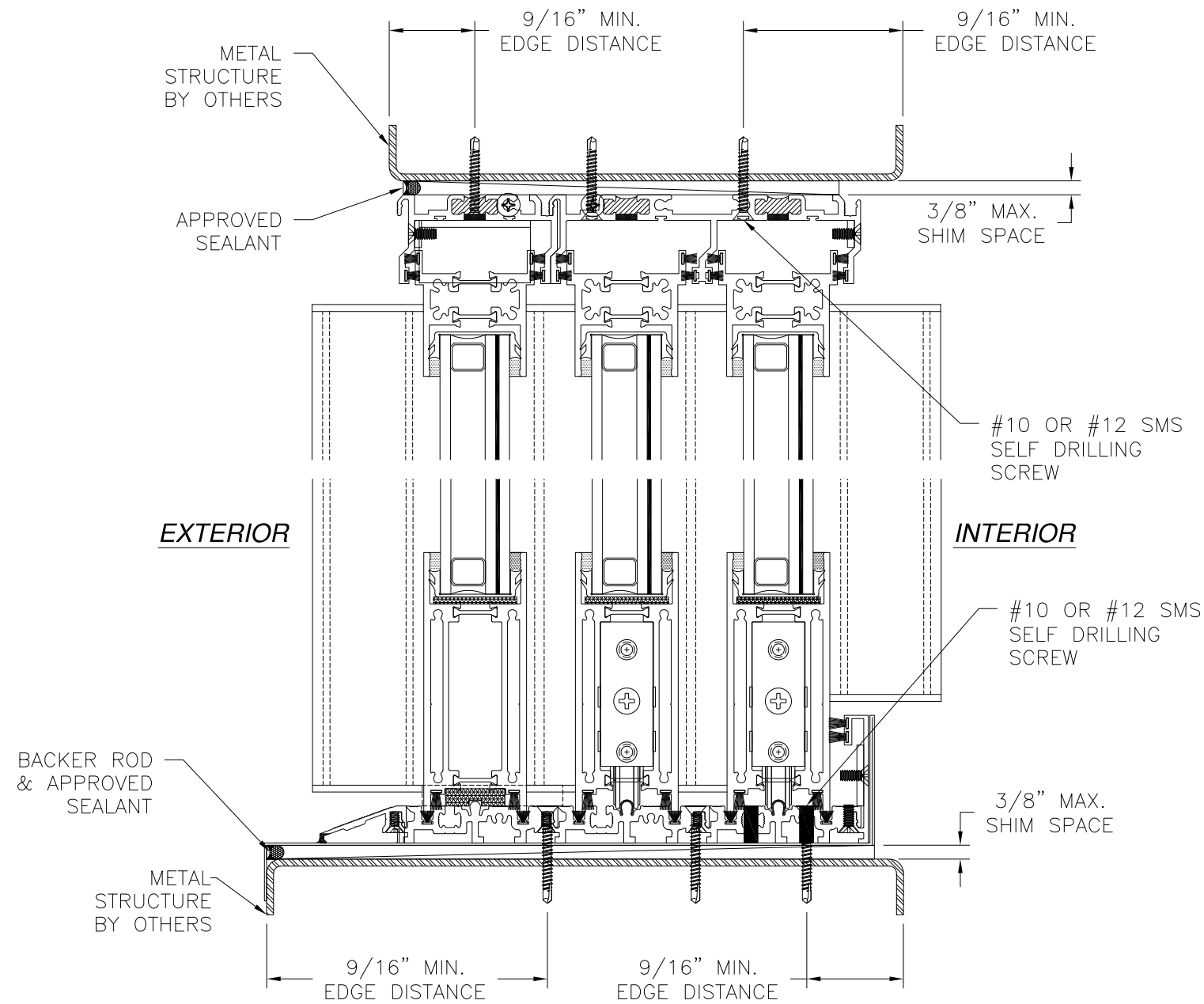
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208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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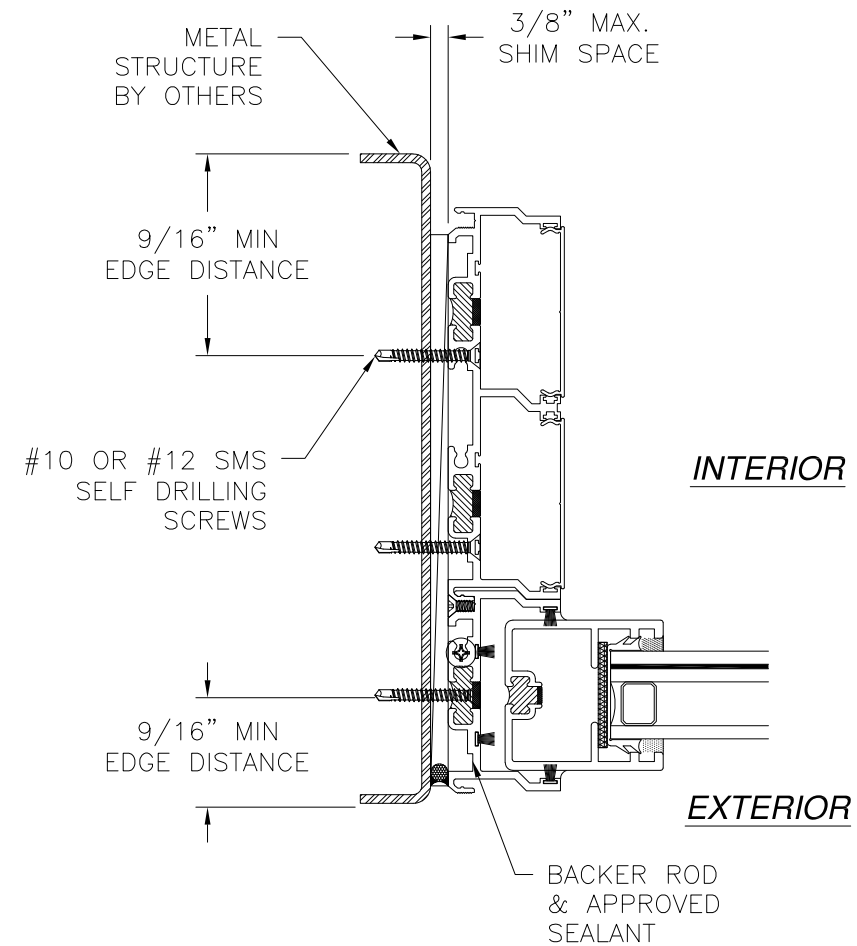


Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS AND COMPONENTS	12/14/2023	R.L.



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

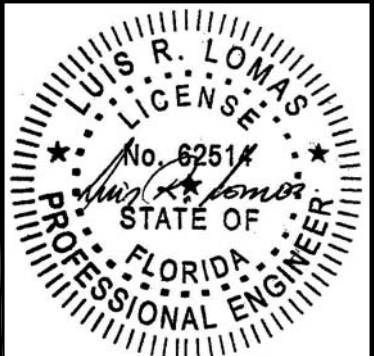


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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

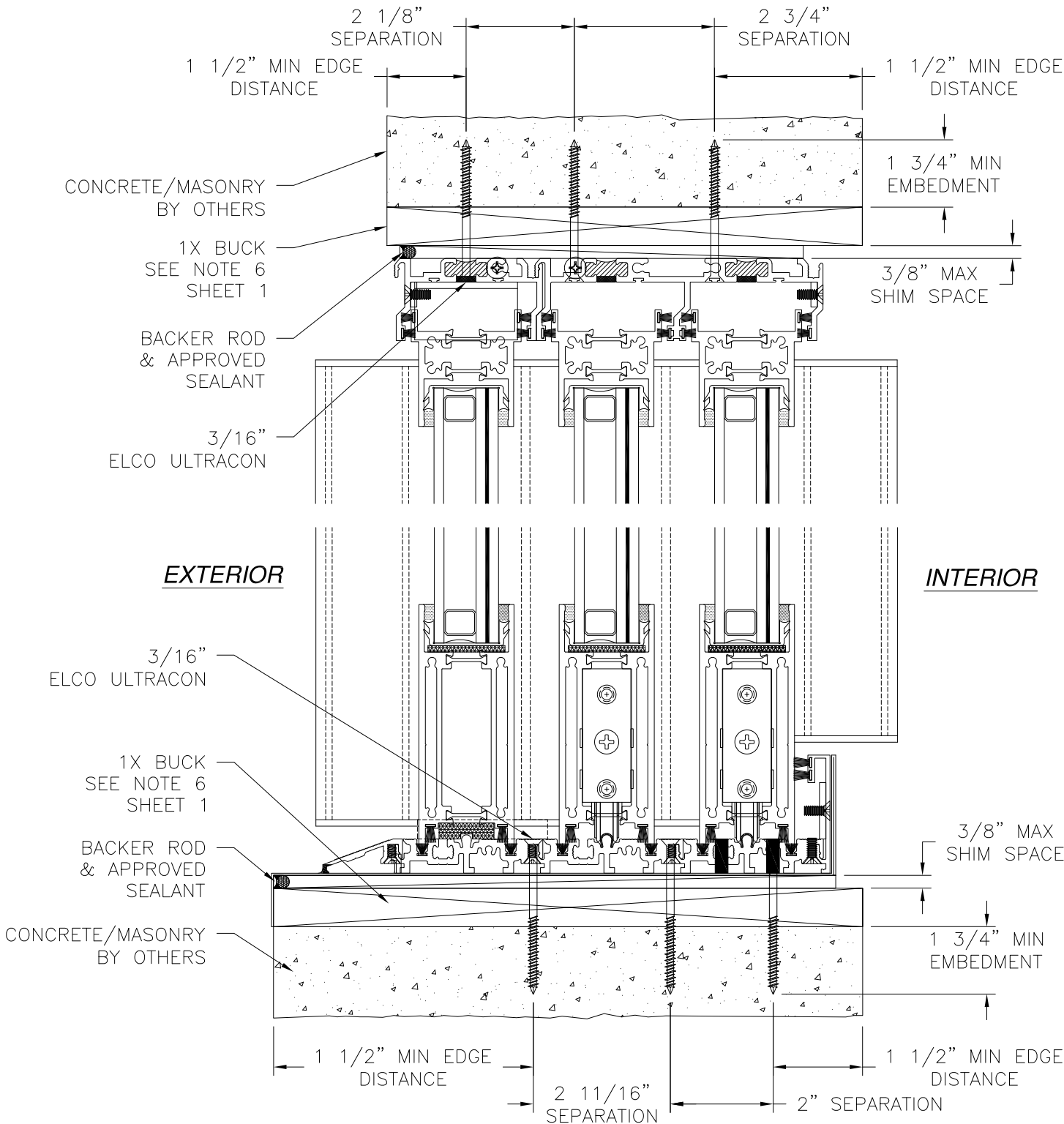
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SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI8000 G-3 MULTI TRACK 90° NO POST ALUMINUM SLIDING GLASS DOOR - IMPACT INSTALLATION DETAILS		
DRAWN: N.G.	DWG NO. 08-02496	REV D
SCALE NTS	DATE 02/27/15	SHEET 10 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



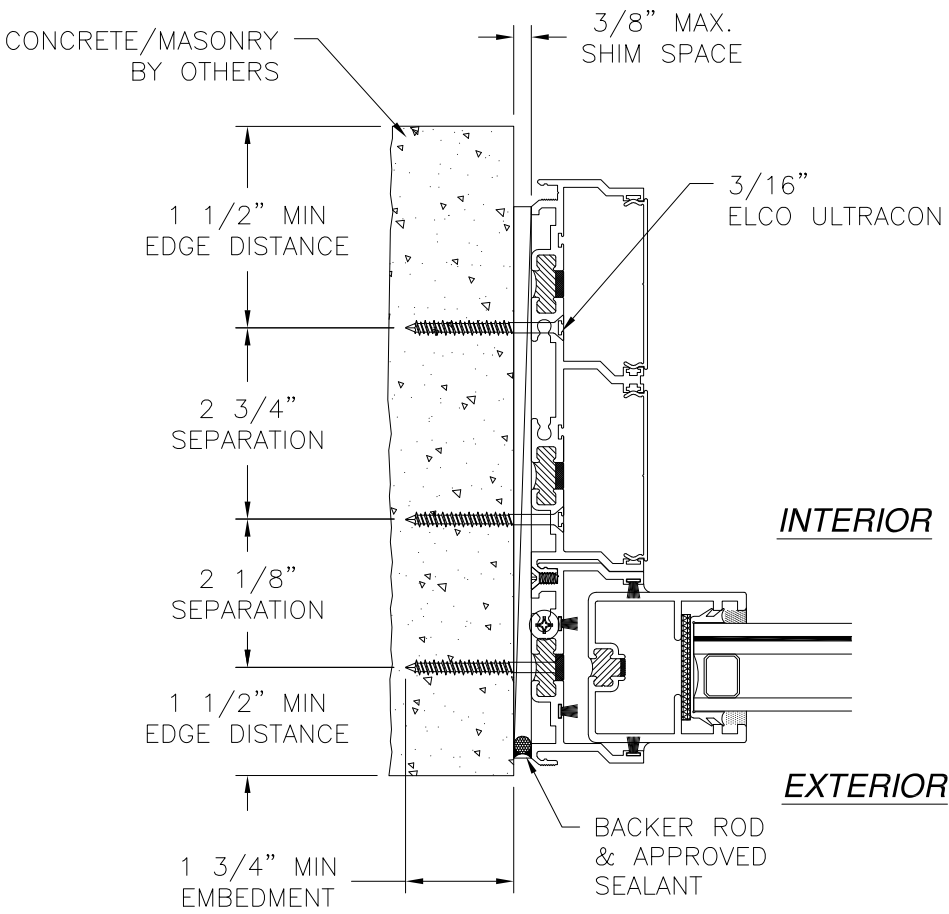
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS AND COMPONENTS	12/14/2023	R.L.



VERTICAL CROSS SECTION
 CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
 FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
 JAMB INSTALLATION DETAIL

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

SIGNED: 12/15/2023

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI8000 G-3 MULTI TRACK 90° NO POST
ALUMINUM SLIDING GLASS DOOR – IMPACT
INSTALLATION DETAILS

DRAWN:

N.G.

DWG NO.

08-02496

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DATE

02/27/15

SHEET

11 OF 13

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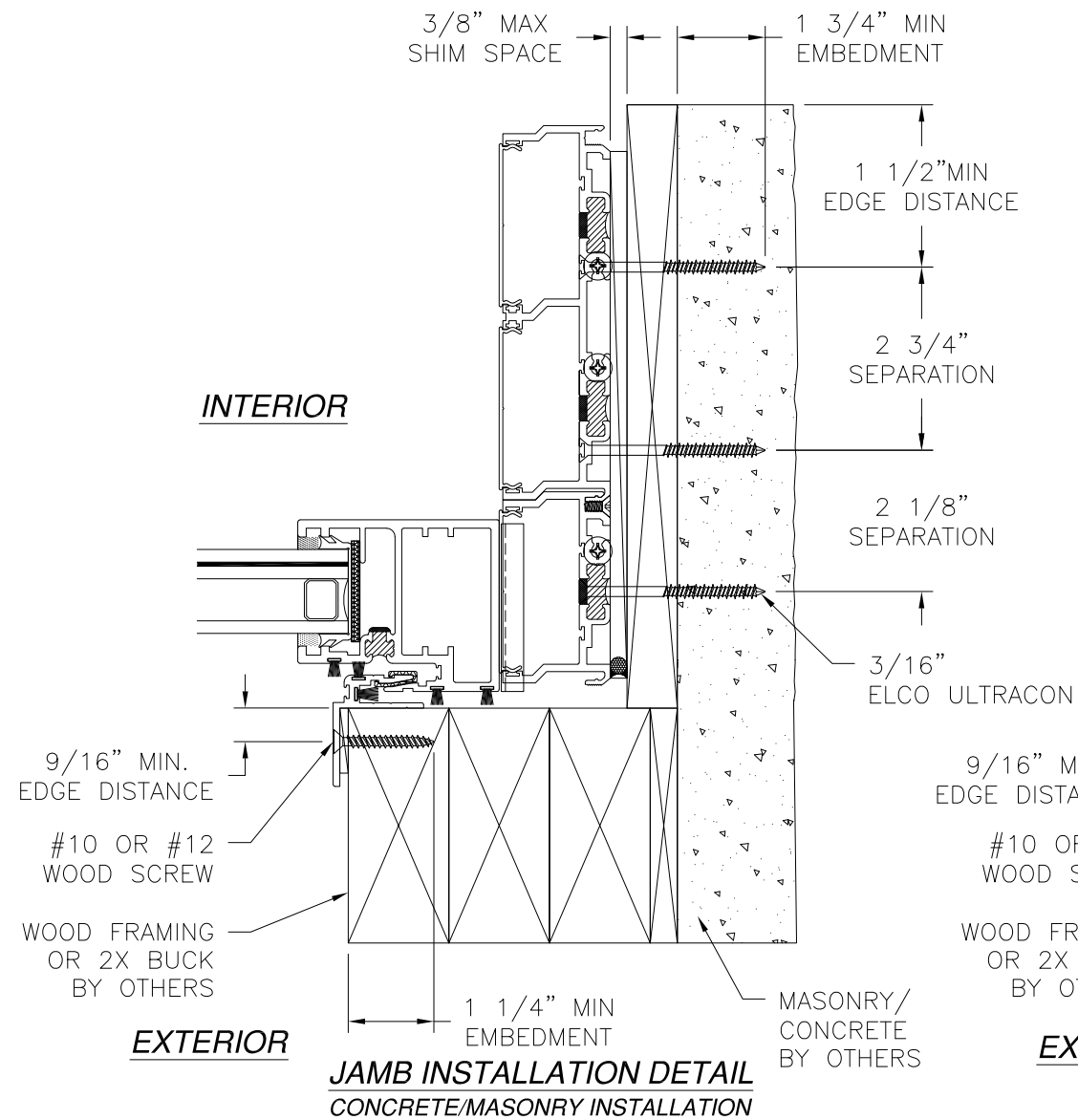
208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com

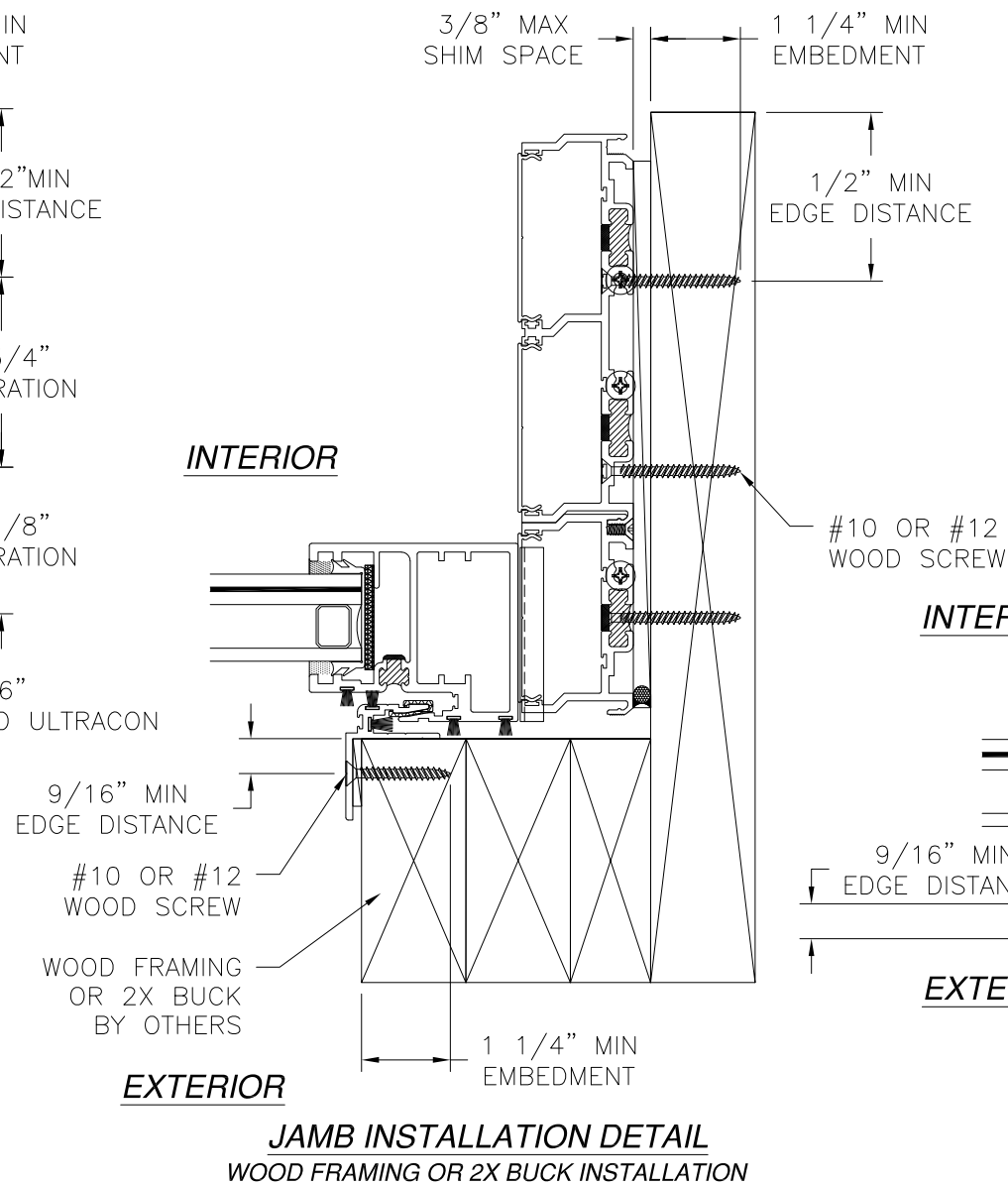


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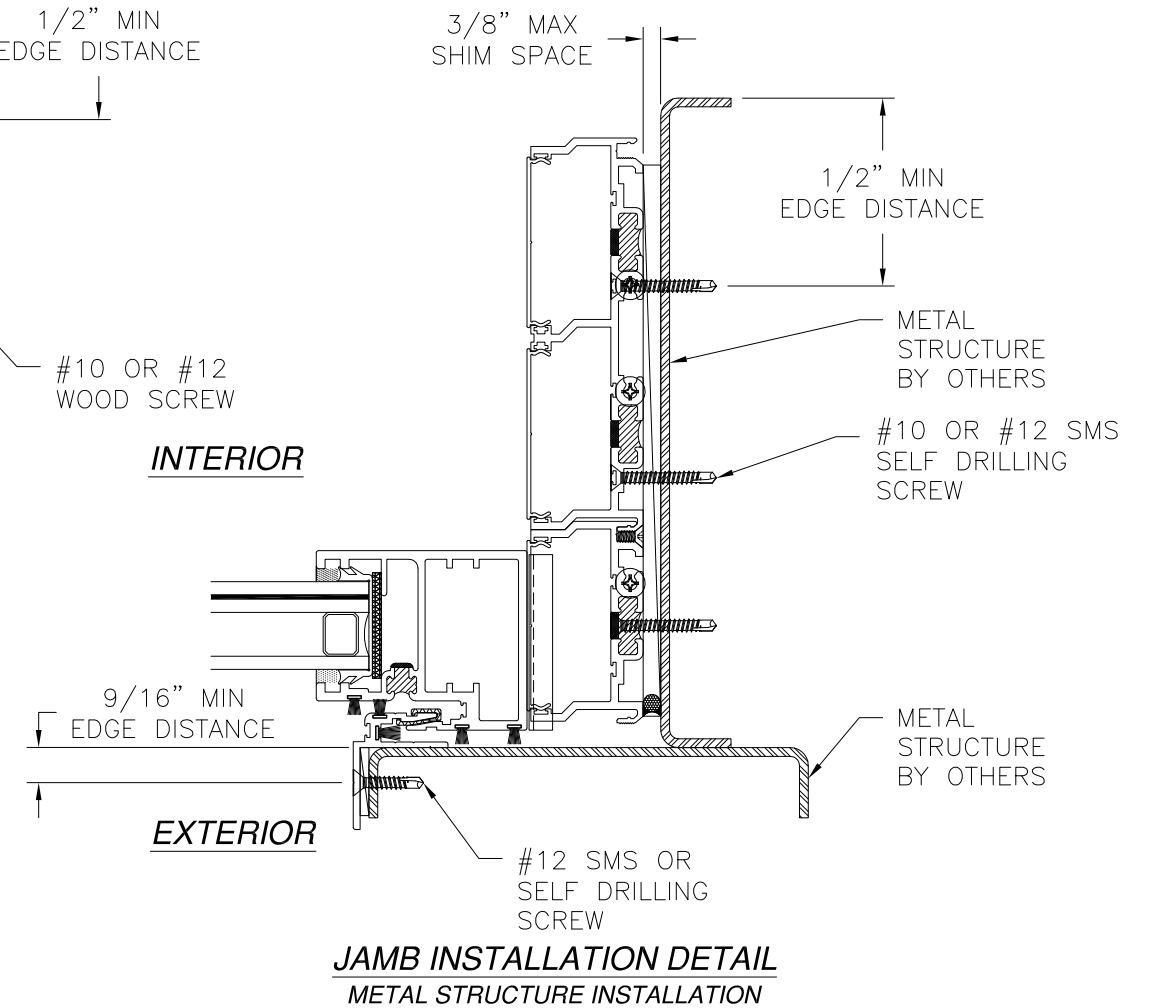
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS AND COMPONENTS	12/14/2023	R.L.



JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

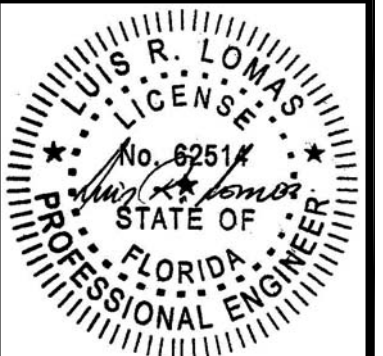


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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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

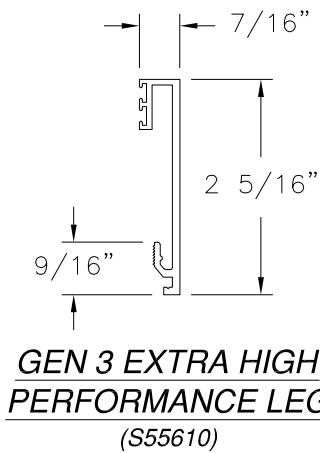
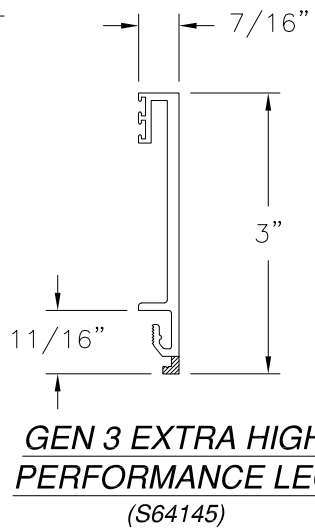
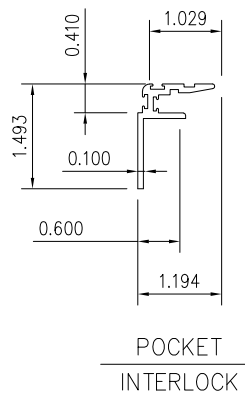
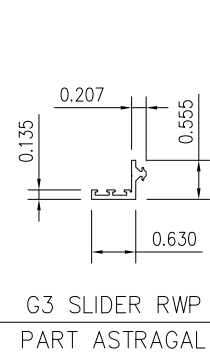
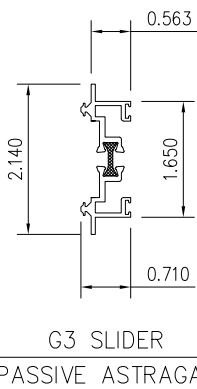
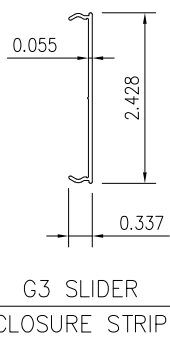
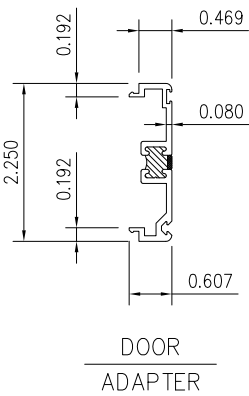
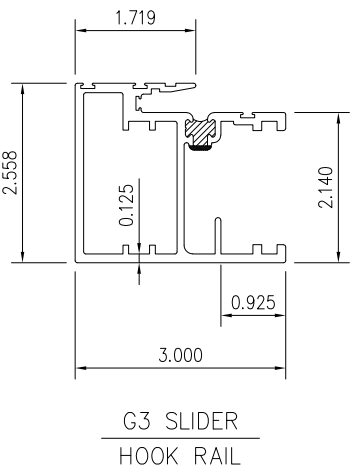
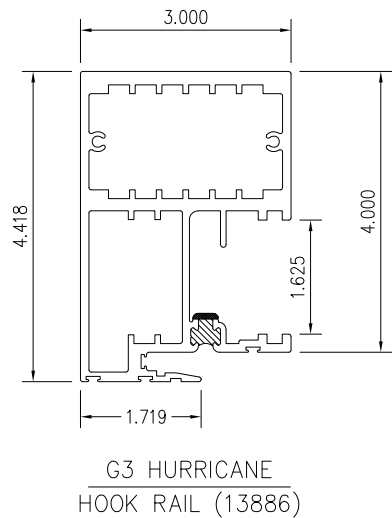
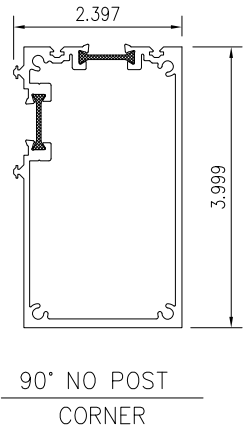
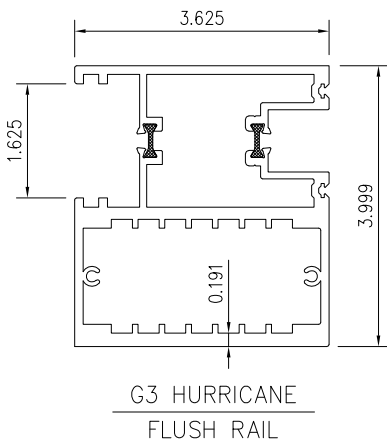
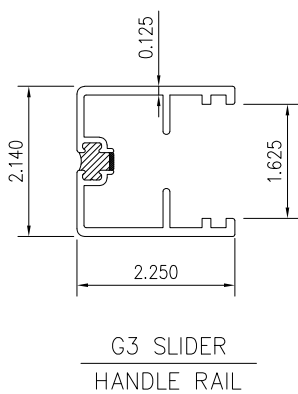
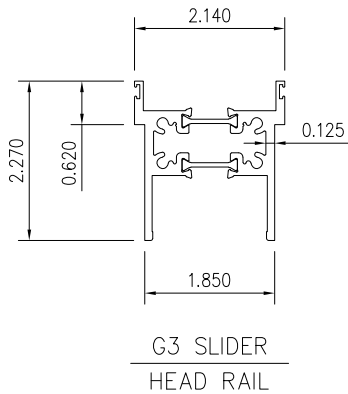
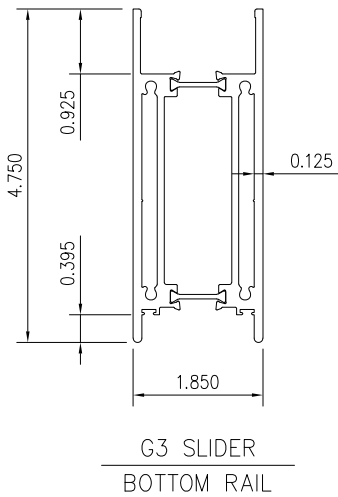
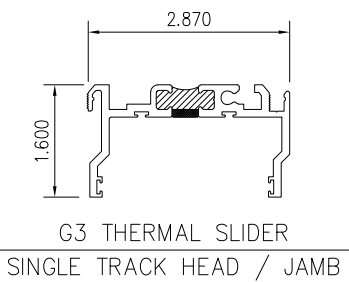
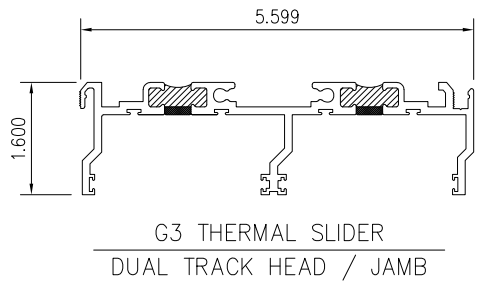
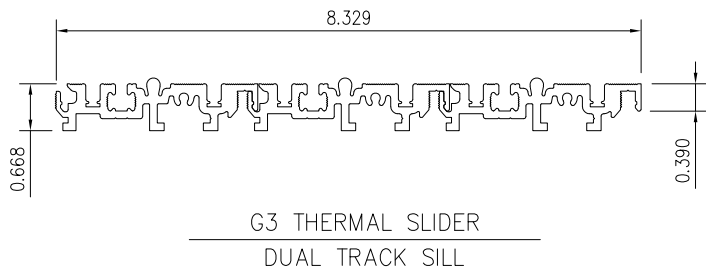
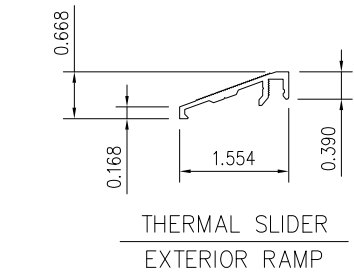
SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI8000 G-3 MULTI TRACK 90° NO POST ALUMINUM SLIDING GLASS DOOR – IMPACT POCKET INSTALLATION DETAILS		
DRAWN: N.G.	DWG NO. 08-02496	REV D
SCALE NTS	DATE 02/27/15	SHEET 12 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 12/15/2023



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REVISIONS			
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SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI8000 G-3 MULTI TRACK 90° NO POST
ALUMINUM SLIDING GLASS DOOR – IMPACT
COMPONENTS

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02/27/15

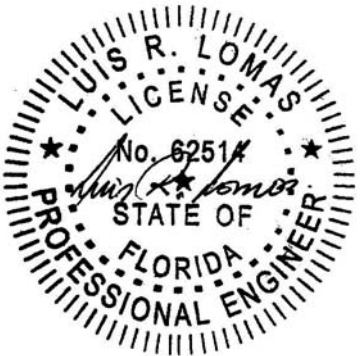
SHEET
13 OF 13

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