

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS AND COMPONENTS	12/15/2023	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 #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16” ELCO ULTRACON OR 1/4” CRETE–FLEX 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.
15. FOR ANCHORING INTO METAL STRUCTURE USE #10 OR #14 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, GRADE N, TYPE 1 (OR GREATER).

17.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063–T5 .125” THICK MINIMUM

SIGNED: 12/19/2023

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11	COMPONENTS

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI8100 G–3 LIFT AND SLIDE ALUMINUM SLIDING GLASS DOOR – IMPACT
NOTES

DRAWN:
R.L.

DWG NO.
08–02493

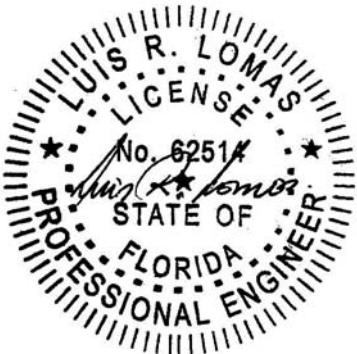
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DATE 09/04/14

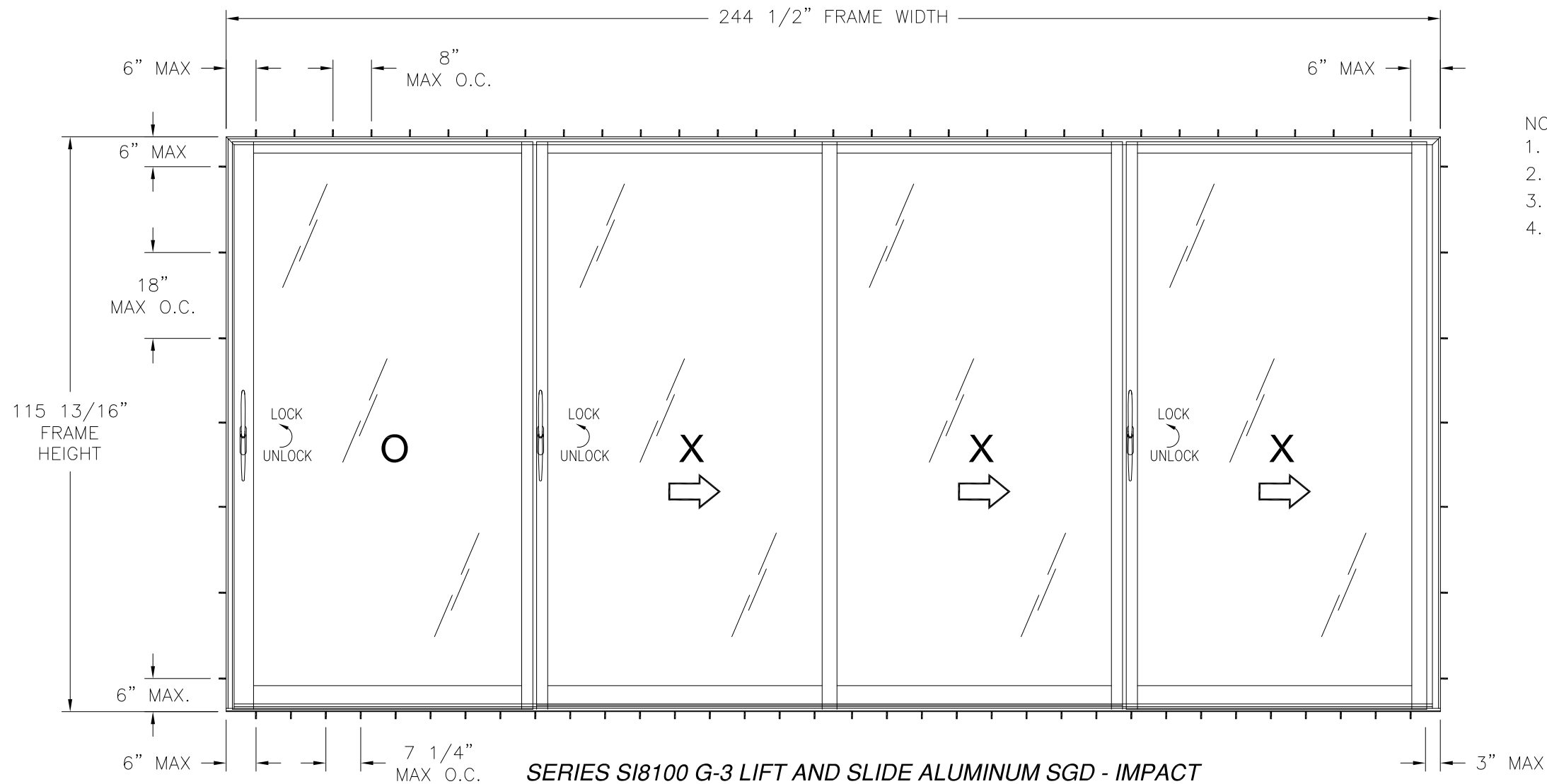
SHEET 1 OF 11

L. ROBERTO LOMAS P.E.
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434-688-0609 rllomas@lrlomaspe.com



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

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS AND COMPONENTS	12/15/2023	R.L.



- NOTES:
1. OPERABLE PANEL SIZE: 63 3/4" X 114 3/8"
 2. FIXED PANEL SIZE: 62 1/8" X 114 3/8"
 3. OPERABLE PANEL D.L.O.: 58 1/2" X 107 1/4"
 4. FIXED PANEL D.L.O.: 55 5/8" X 107 1/4"

SERIES SI8100 G-3 LIFT AND SLIDE ALUMINUM SGD - IMPACT
EXTERIOR VIEW
WITH #10 ANCHORS AND 3/16" ELCO ULTRACON
UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS ARE APPROVED AS LONG AS
INDIVIDUAL PANEL AREA DOES NOT EXCEED 50.63 FT² AND USES VERTICAL CONDITIONS AS SHOWN
IN APPROVAL DOCUMENT.

WITH GLASS A

DESIGN PRESSURE RATING	IMPACT RATING
±70.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4
SEE CHART #1, SHEET 4

WITH GLASS B

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

MISSILE LEVEL D, WIND ZONE 4
SEE CHART #2, SHEET 4

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HARDWARE SCHEDULE	
A.	SINGLE HANDLE 4 POINT LOCK LIFT & SLIDE
B.	POLYMER OR SS ROLLER WITH METAL HOUSING
C.	EXTRUDED ALUMINUM POCKET INTERLOCK
D.	EXTRUDED ALUMINUM ASTRAGAL

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SERIES SI8100 G-3 LIFT AND SLIDE ALUMINUM
SLIDING GLASS DOOR – IMPACT
ELEVATION

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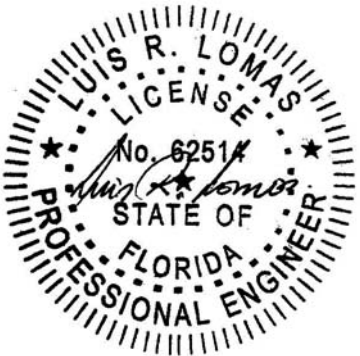
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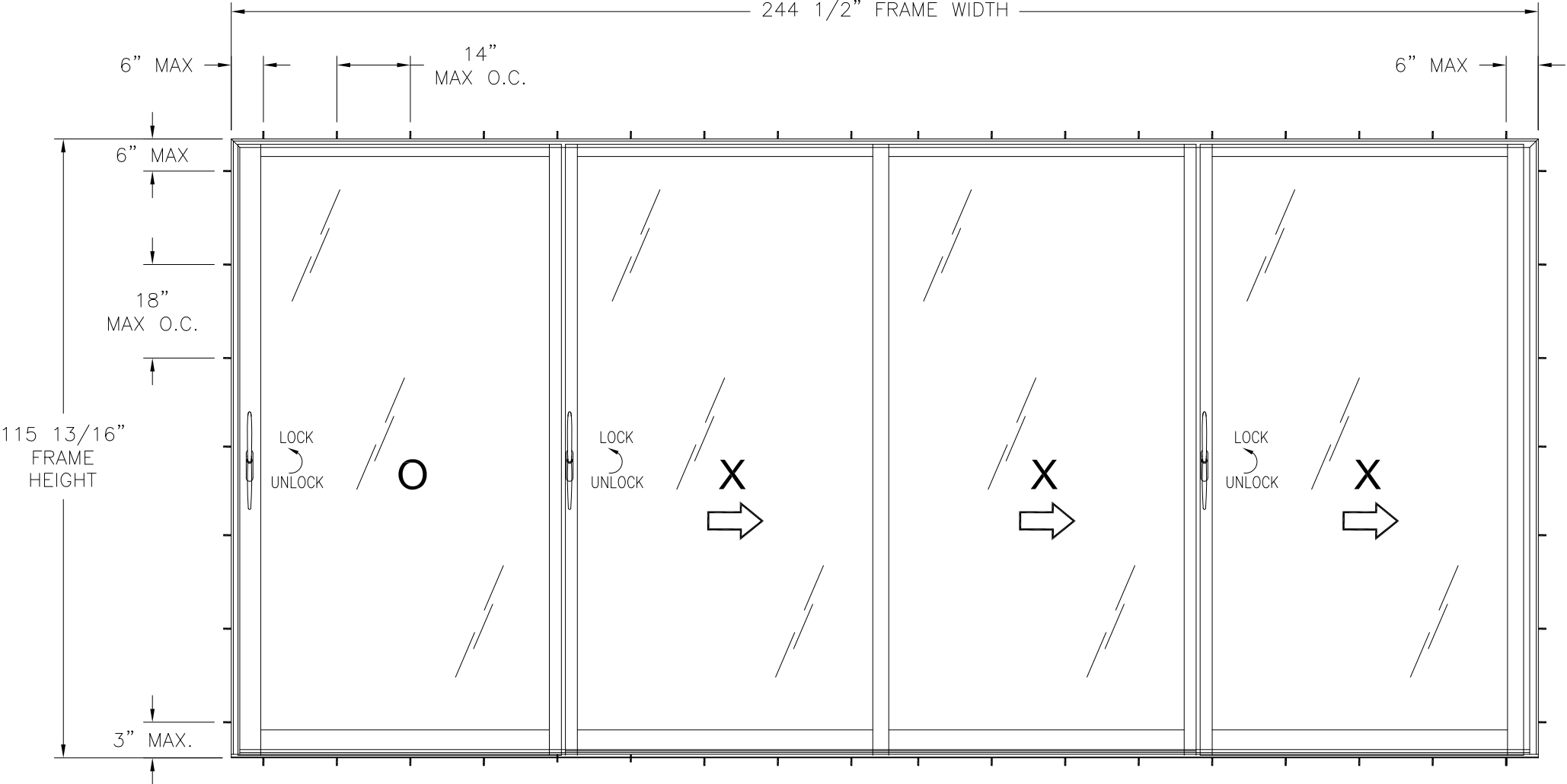
SHEET 2 OF 11

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SERIES SI8100 G-3 LIFT AND SLIDE ALUMINUM SGD - IMPACT
EXTERIOR VIEW
WITH #14 ANCHORS AND 1/4" CRETE-FLEX
UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS ARE APPROVED AS LONG AS
INDIVIDUAL PANEL AREA DOES NOT EXCEED 50.63 FT² AND USES VERTICAL CONDITIONS AS SHOWN
IN APPROVAL DOCUMENT.

WITH GLASS A	
DESIGN PRESSURE RATING	IMPACT RATING
±70.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4
SEE CHART #1, SHEET 4

WITH GLASS B	
DESIGN PRESSURE RATING	IMPACT RATING
±65.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4
SEE CHART #2, SHEET 4

HARDWARE SCHEDULE	
A.	SINGLE HANDLE 4 POINT LOCK LIFT & SLIDE
B.	POLYMER OR SS ROLLER WITH METAL HOUSING
C.	EXTRUDED ALUMINUM POCKET INTERLOCK
D.	EXTRUDED ALUMINUM ASTRAGAL

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SHEET 3 OF 11

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Chart #1
For units with glass A
Maximum Design pressure (psf)

Panel Height (in)	Single Panel Width (in)																	
	24.0		30.0		36.0		42.0		48.0		54.0		60.0		63.75		66.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
84.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
90.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
96.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
102.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
108.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
114.38	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	-	-
120.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	67.2	67.2	-	-	-	-
126.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	69.5	69.5	62.8	62.8	-	-	-	-	-	-
132.0	70.0	70.0	70.0	70.0	70.0	70.0	67.9	67.9	60.1	60.1	54.2	54.2	-	-	-	-	-	-
138.0	70.0	70.0	70.0	70.0	68.4	68.4	59.2	59.2	52.4	52.4	-	-	-	-	-	-	-	-
144.0	70.0	70.0	70.0	70.0	60.0	60.0	51.9	51.9	45.9	45.9	-	-	-	-	-	-	-	-
150.0	70.0	70.0	63.2	63.2	53.0	53.0	45.8	45.8	40.5	40.5	-	-	-	-	-	-	-	-
156.0	69.7	69.7	56.1	56.1	47.0	47.0	40.6	40.6	-	-	-	-	-	-	-	-	-	-

Chart #2
For units with glass B
Maximum Design pressure (psf)

Panel Height (in)	Single Panel Width (in)																	
	24.0		30.0		36.0		42.0		48.0		54.0		60.0		63.75		66.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	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	65.0	65.0	65.0	65.0
84.0	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	65.0	65.0	65.0	65.0
90.0	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	65.0	65.0	65.0	65.0
96.0	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	65.0	65.0	65.0	65.0
102.0	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	65.0	65.0	65.0	65.0
108.0	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	65.0	65.0	65.0	65.0
114.38	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	65.0	65.0	-	-
120.0	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	-	-	-	-
126.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	61.5	61.5	-	-	-	-	-	-
132.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	58.9	58.9	53.1	53.1	-	-	-	-	-	-
138.0	65.0	65.0	65.0	65.0	65.0	65.0	57.9	57.9	51.3	51.3	-	-	-	-	-	-	-	-
144.0	65.0	65.0	65.0	65.0	58.8	58.8	50.8	50.8	45.0	45.0	-	-	-	-	-	-	-	-
150.0	65.0	65.0	61.8	61.8	51.9	51.9	44.9	44.9	39.6	39.6	-	-	-	-	-	-	-	-
156.0	65.0	65.0	54.9	54.9	46.1	46.1	39.8	39.8	-	-	-	-	-	-	-	-	-	-

SIGNED: 12/19/2023

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

SERIES SI8100 G-3 LIFT AND SLIDE ALUMINUM
SLIDING GLASS DOOR – IMPACT
DESIGN PRESSURE CHART

DRAWN:
R.L.

DWG NO.
08-02493

REV
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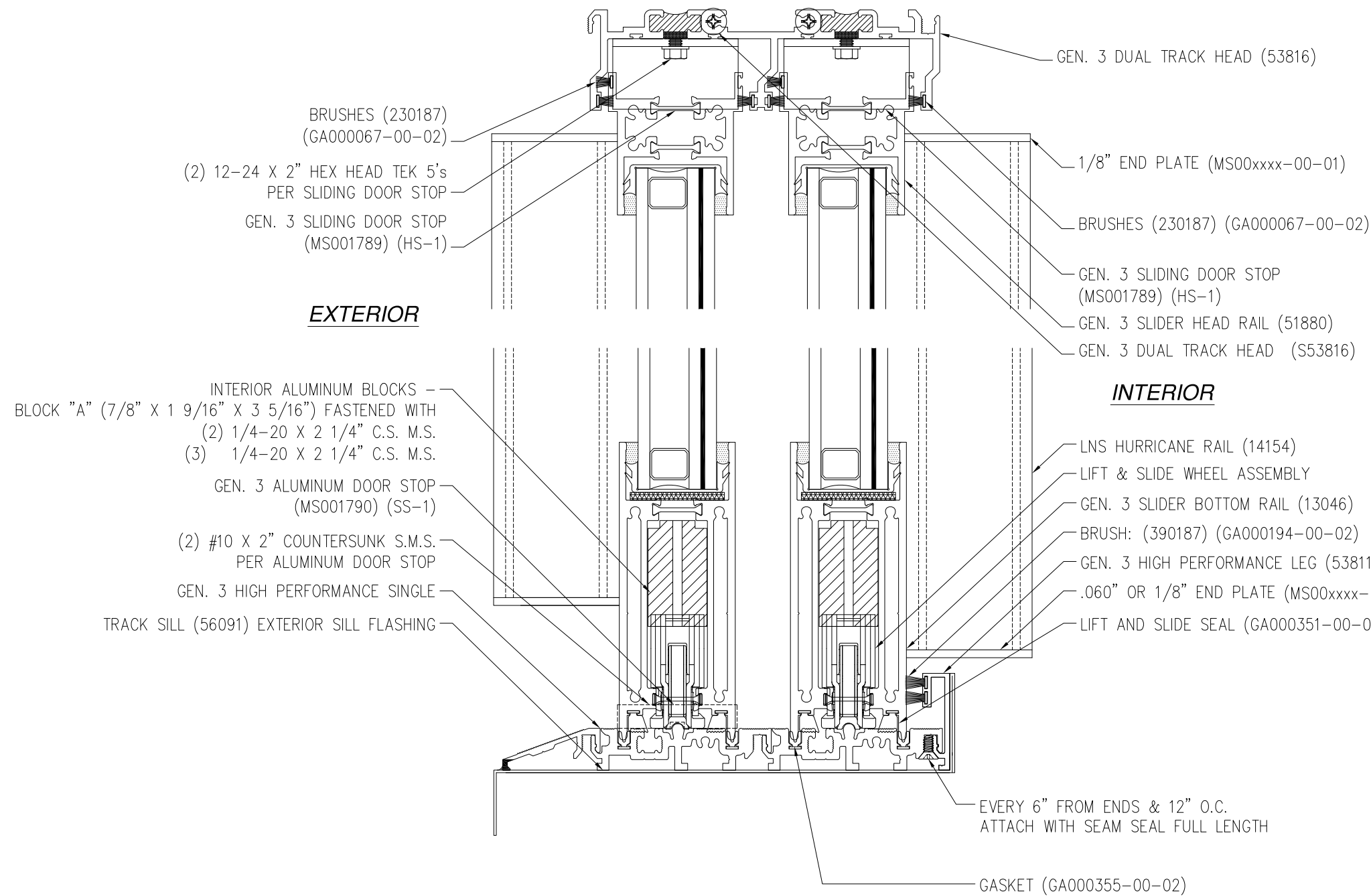
DATE 09/04/14

SHEET 4 OF 11

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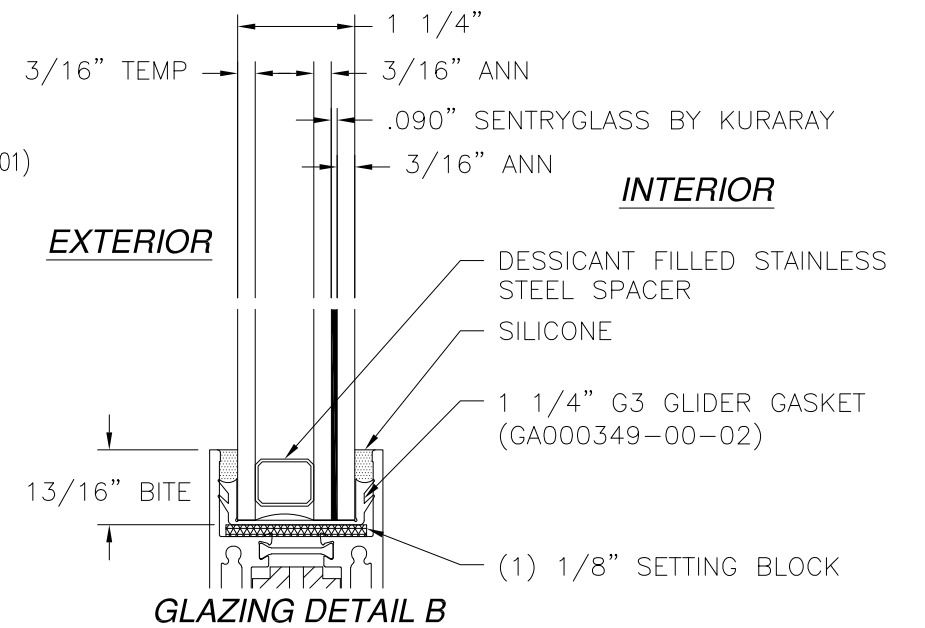
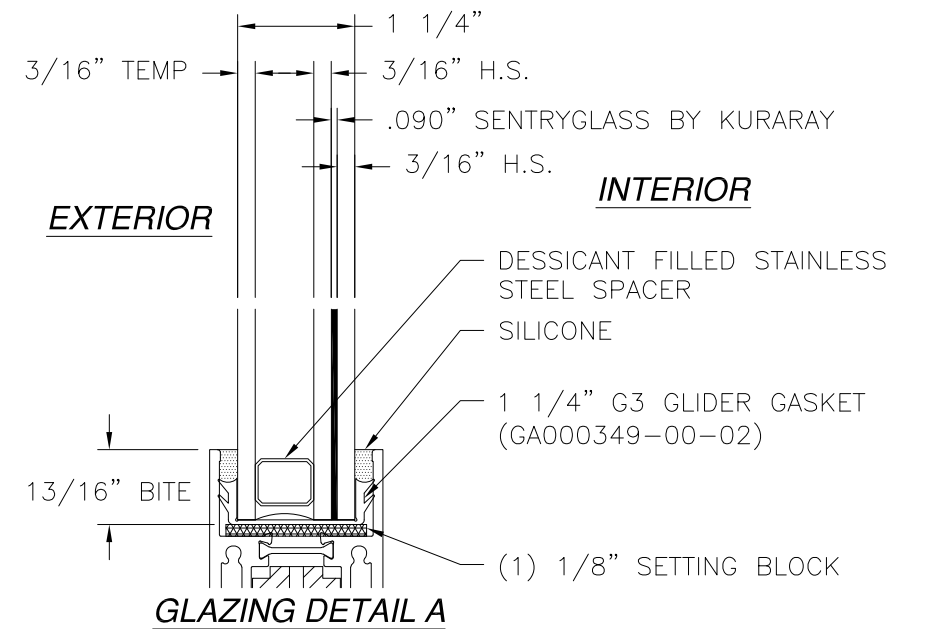


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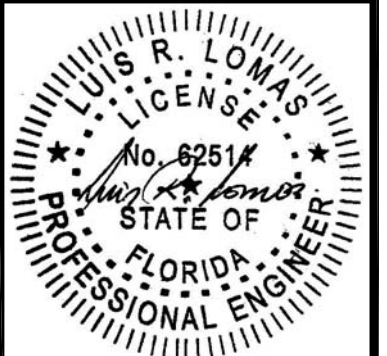
VERTICAL CROSS SECTION

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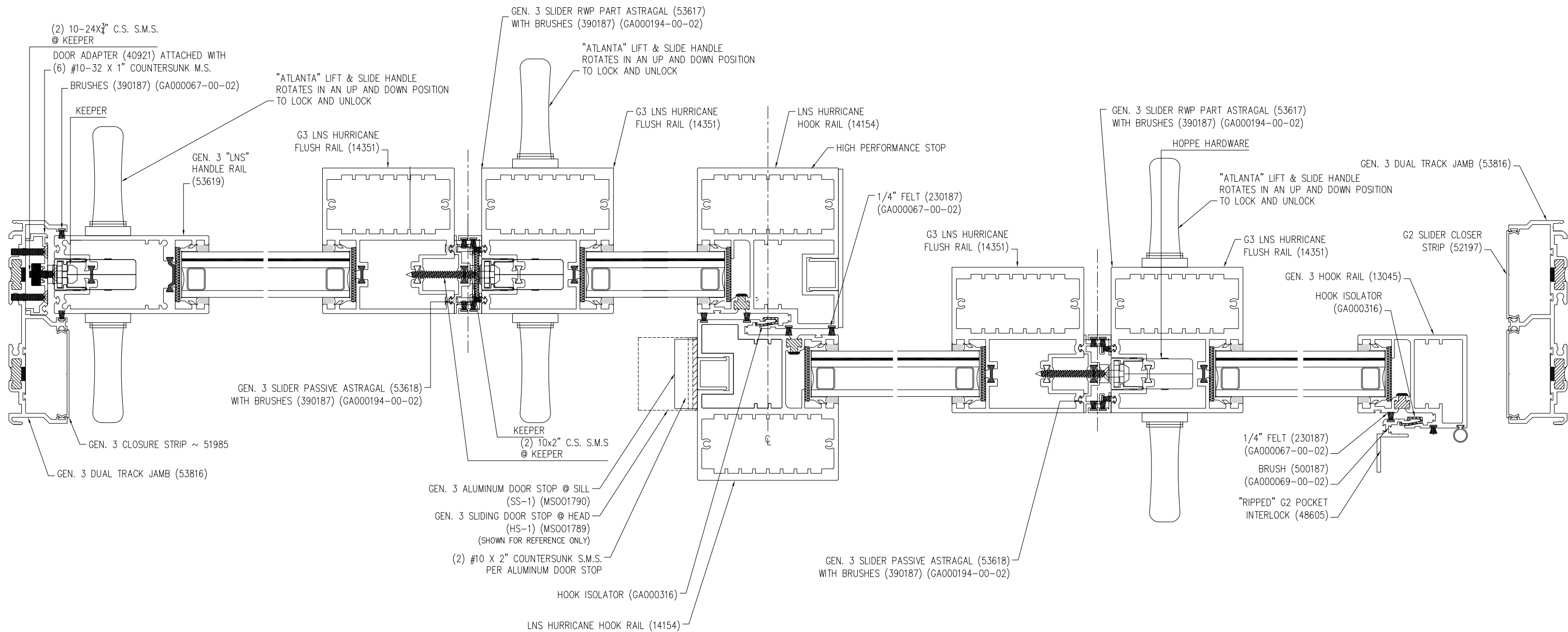
SIGNED: 12/19/2023

SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI8100 G-3 LIFT AND SLIDE ALUMINUM SLIDING GLASS DOOR - IMPACT VERTICAL CROSS SECTION AND GLAZING DETAILS		
DRAWN: R.L.	DWG NO. 08-02493	REV D
SCALE NTS	DATE 09/04/14	SHEET 5 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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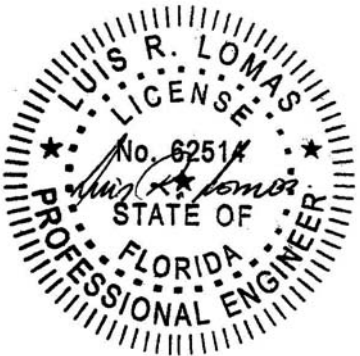
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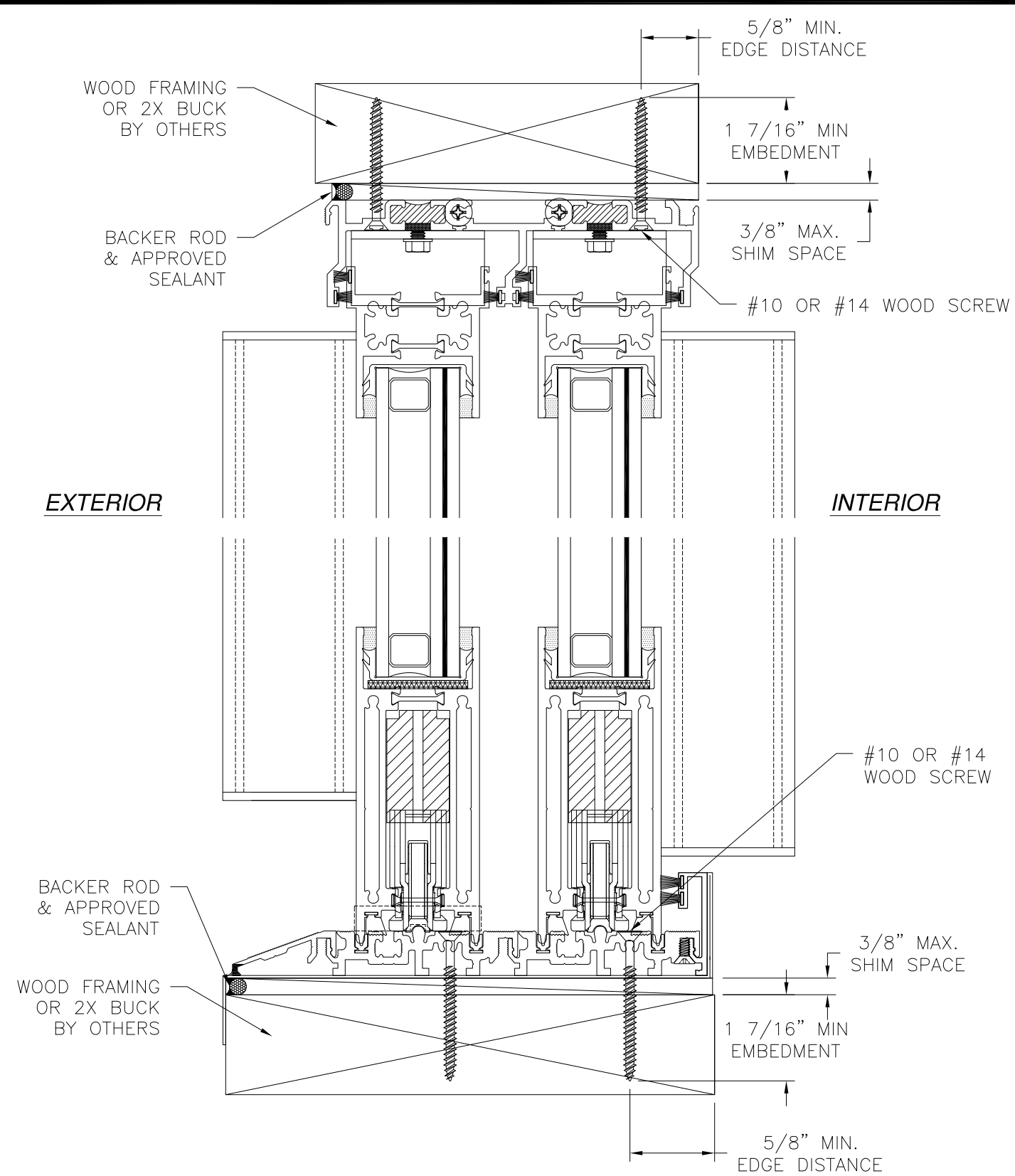
HORIZONTAL CROSS SECTION

SIGNED: 12/19/2023

SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI8100 G-3 LIFT AND SLIDE ALUMINUM SLIDING GLASS DOOR - IMPACT HORIZONTAL CROSS SECTION		
DRAWN: R.L.	DWG NO. 08-02493	REV D
SCALE NTS	DATE 09/04/14	SHEET 6 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

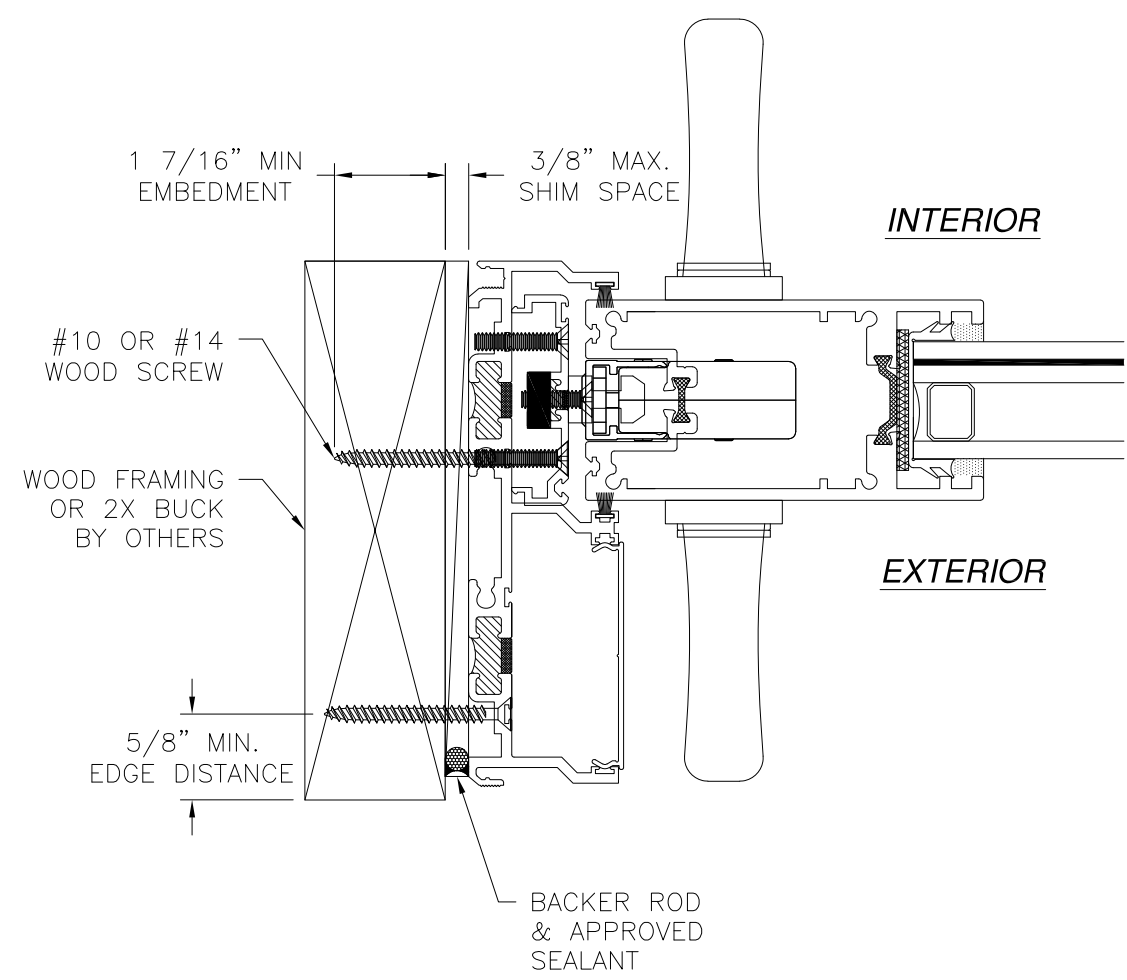


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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION

- 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



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

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PINE GROVE, PA 17963

SERIES SI8100 G-3 LIFT AND SLIDE ALUMINUM
SLIDING GLASS DOOR – IMPACT
INSTALLATION DETAILS

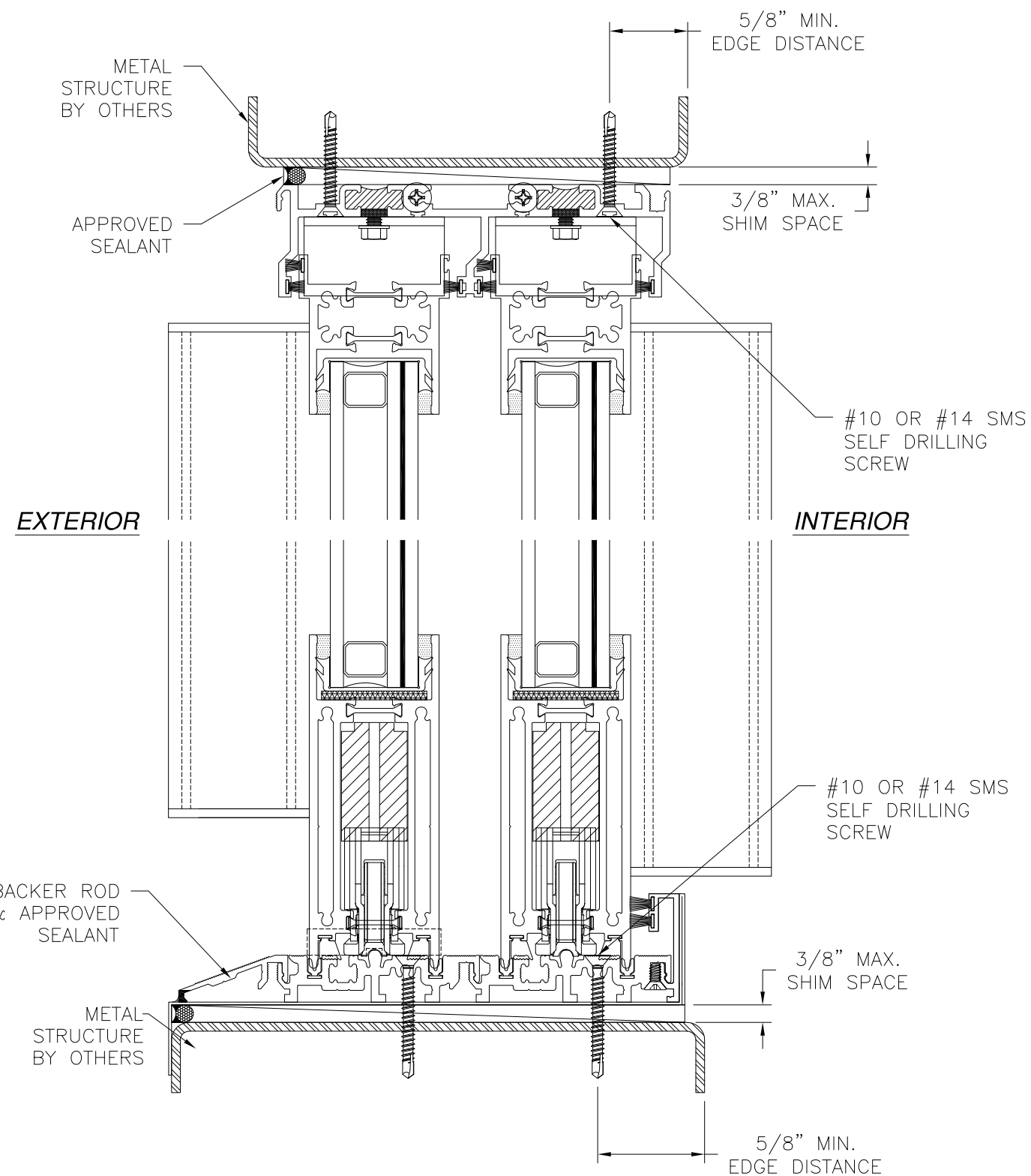
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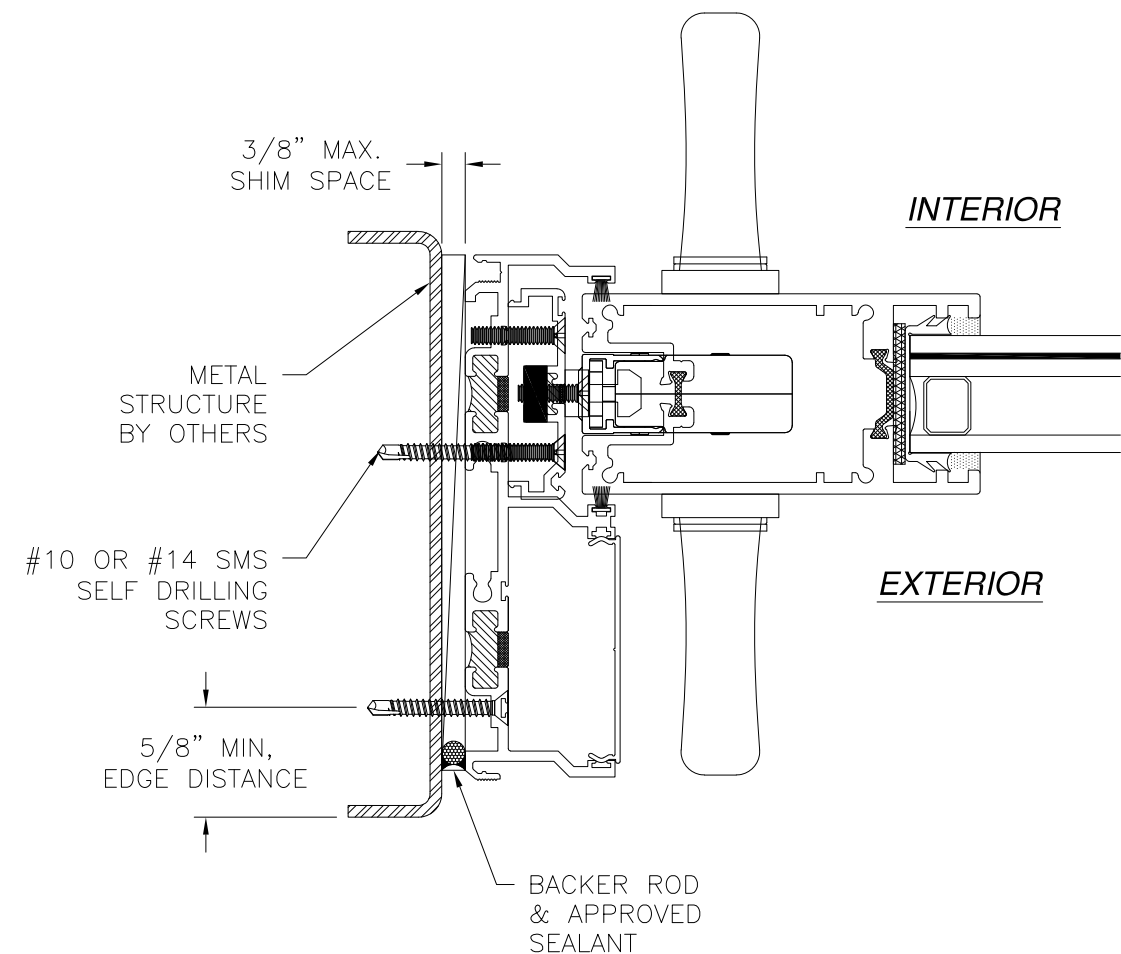
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

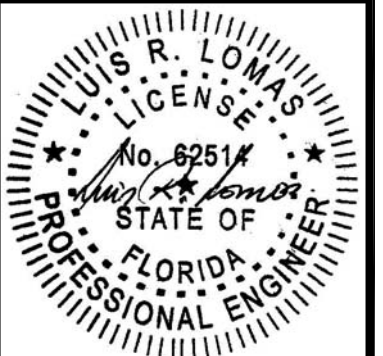


JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

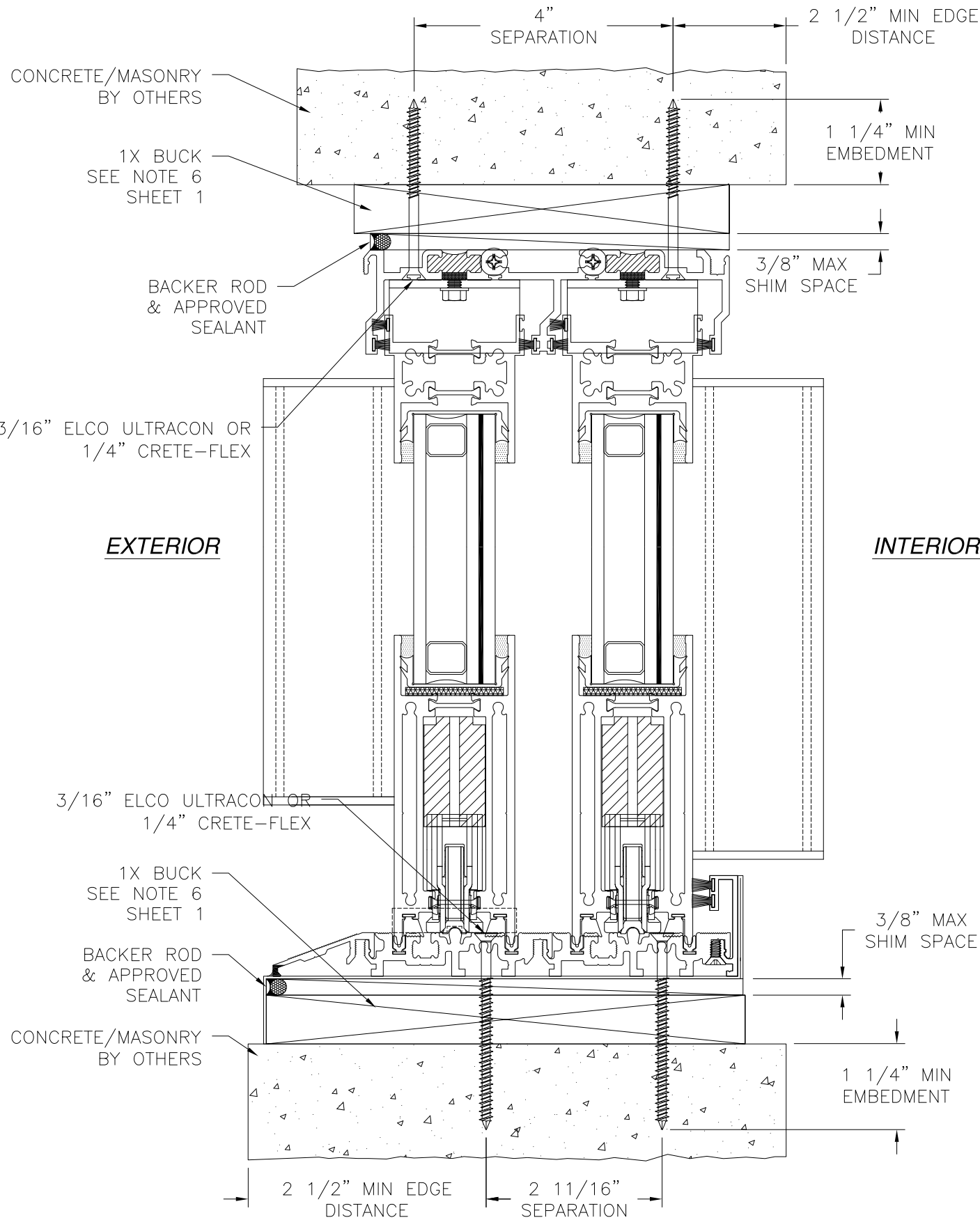
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SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI8100 G-3 LIFT AND SLIDE ALUMINUM SLIDING GLASS DOOR – IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-02493	REV D
SCALE NTS	DATE 09/04/14	SHEET 8 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

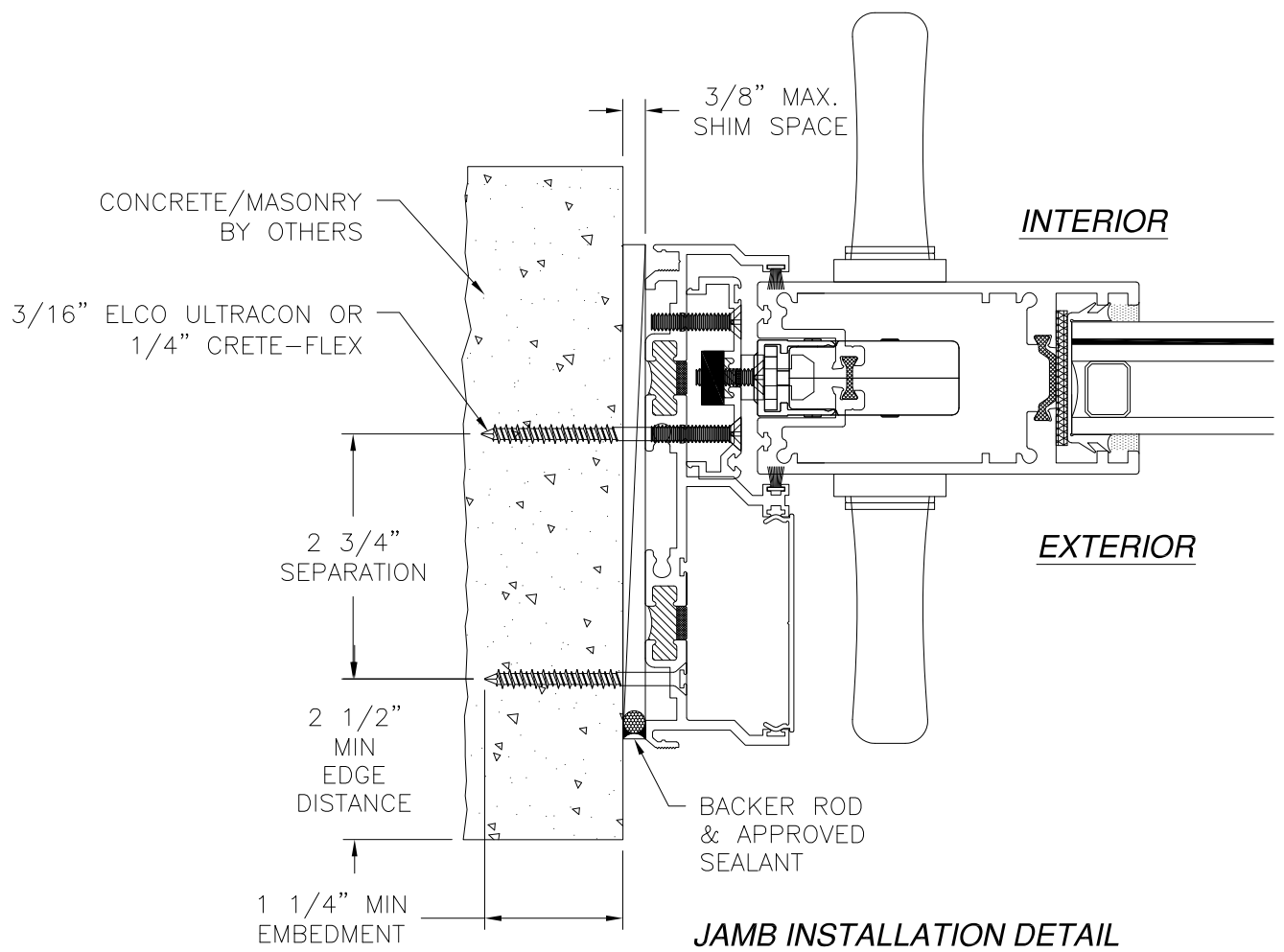
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VERTICAL CROSS SECTION
CONCRETE/MASONRY WITH 1X BUCK INSTALLATION
FOR CONCRETE/MASONRY WITHOUT 1X BUCK REFER TO
JAMB INSTALLATION DETAIL



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

- NOTES:**
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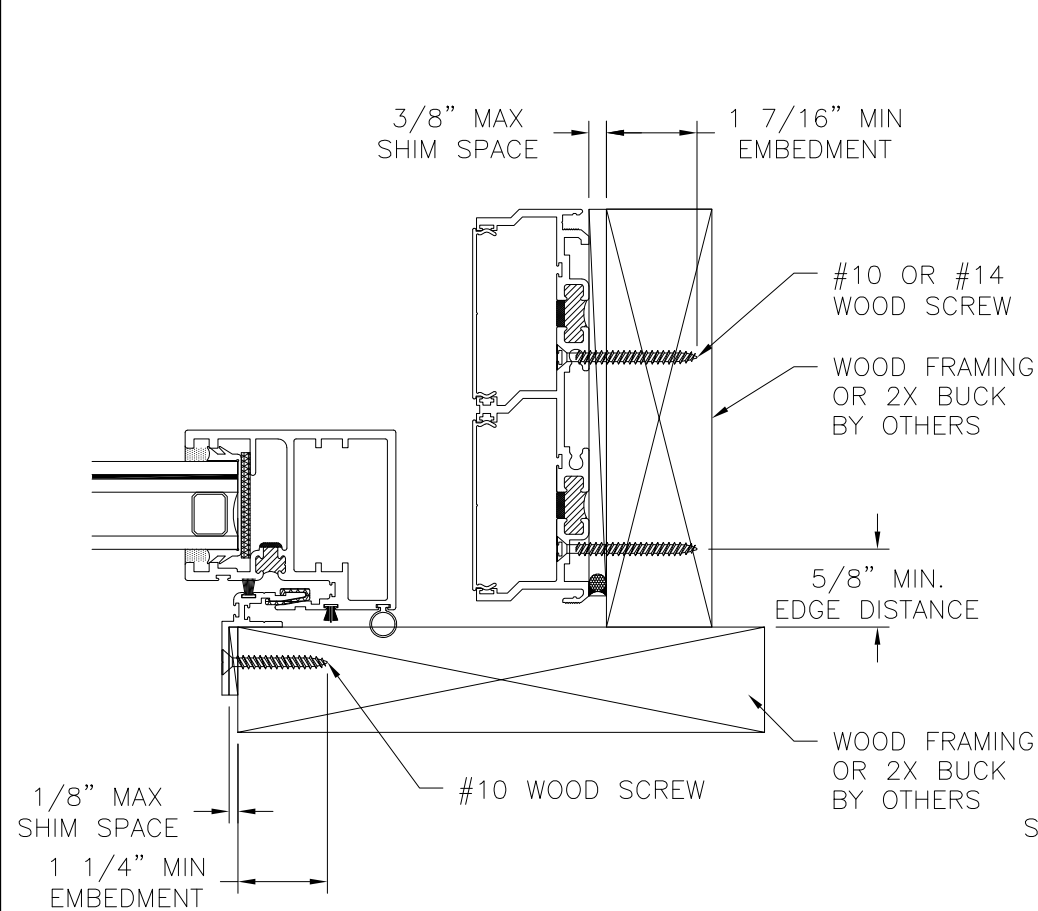
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SERIES SI8100 G-3 LIFT AND SLIDE ALUMINUM SLIDING GLASS DOOR - IMPACT INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-02493	REV D
SCALE NTS	DATE 09/04/14	SHEET 9 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

SIGNED: 12/19/2023

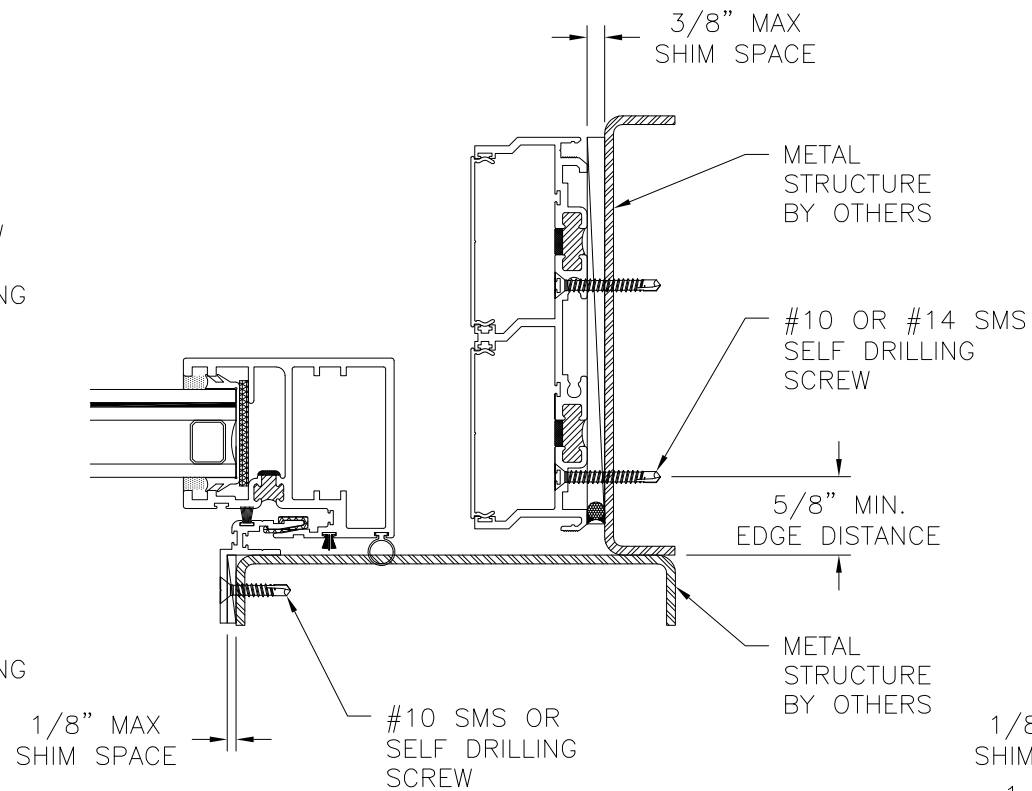
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS AND COMPONENTS	12/15/2023	R.L.

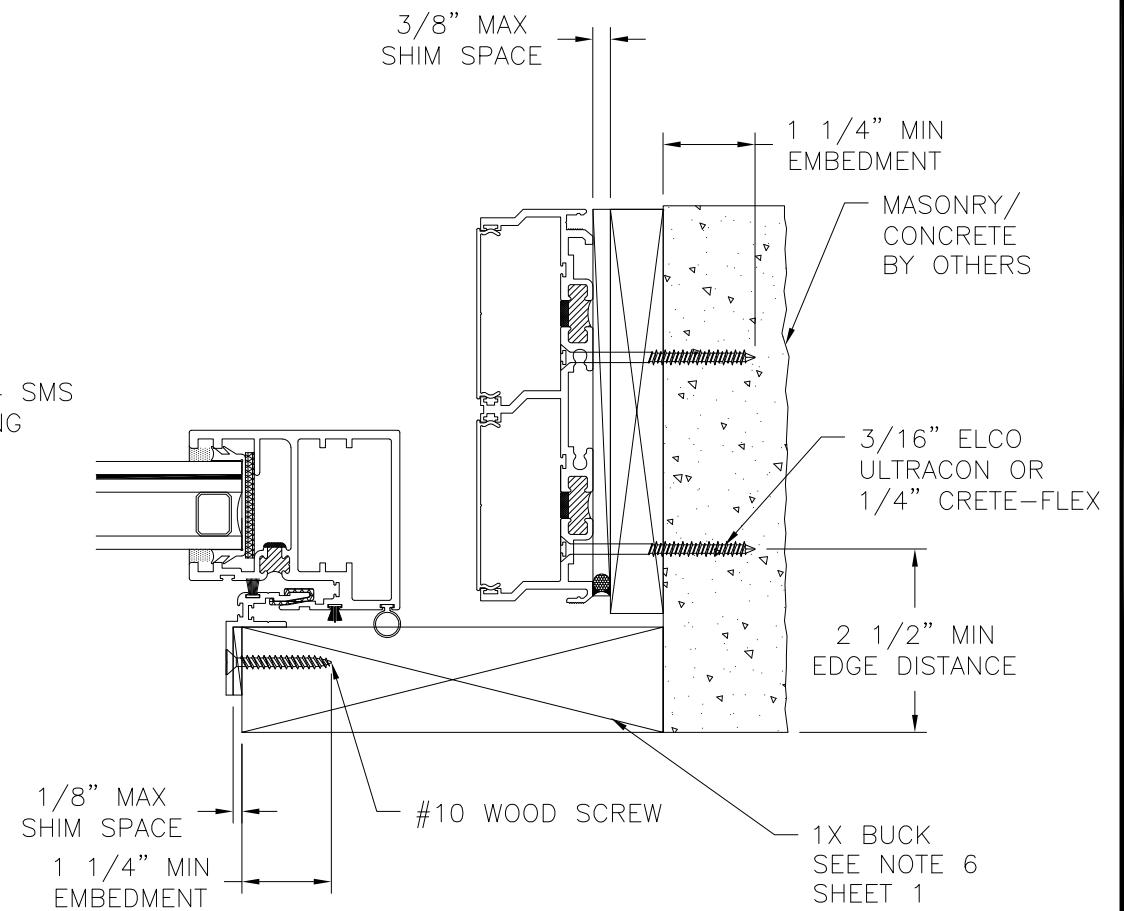
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS AND COMPONENTS	12/15/2023	R.L.



JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION



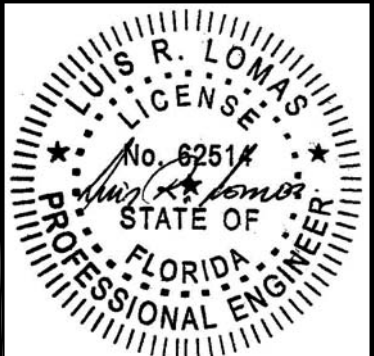
JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



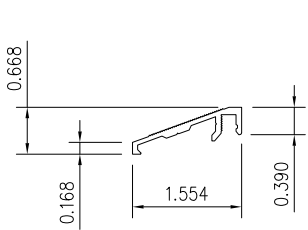
JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

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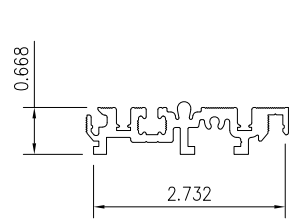
SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI8100 G-3 LIFT AND SLIDE ALUMINUM SLIDING GLASS DOOR - IMPACT POCKET INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-02493	REV D
SCALE NTS	DATE 09/04/14	SHEET 10 OF 11
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



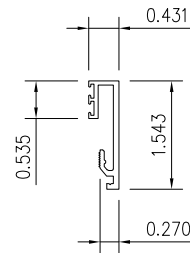
Luis R. Lomas P.E.
FL No.: 62514



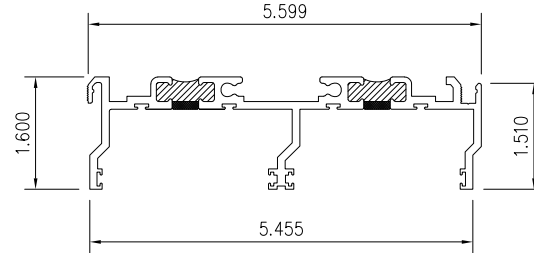
THERMAL SLIDER
EXTERIOR RAMP



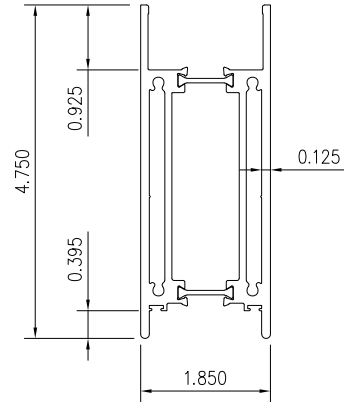
G3 THERMAL SLIDER
SINGLE TRACK SILL



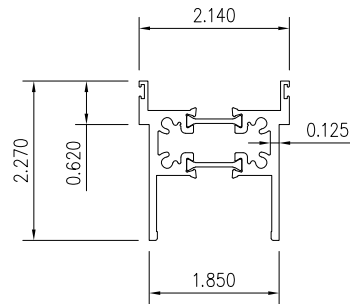
THERMAL SLIDER
HIGH-PERFORMANCE LEG



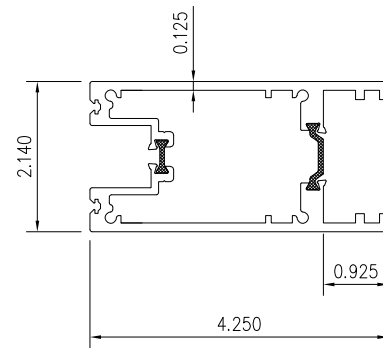
G3 THERMAL SLIDER
DUAL TRACK HEAD / JAMB



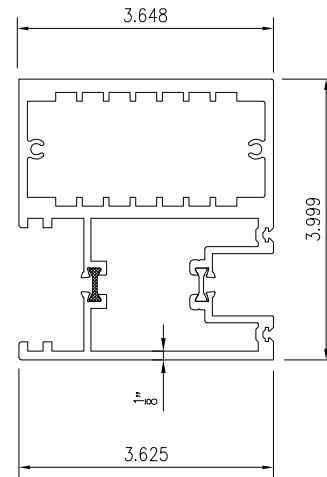
G3 SLIDER
BOTTOM RAIL



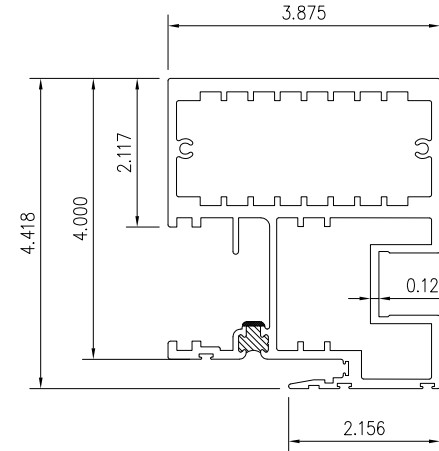
G3 SLIDER
HEAD RAIL



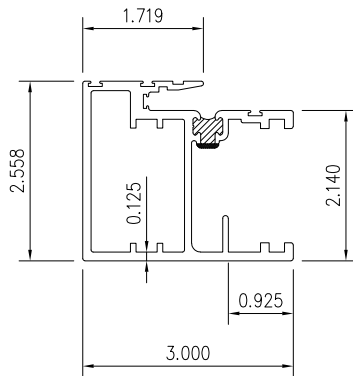
G3 LNS SLIDER
HANDLE RAIL



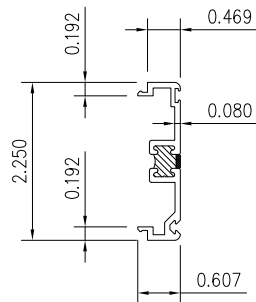
G3 LNS HURRICANE
FLUSH RAIL



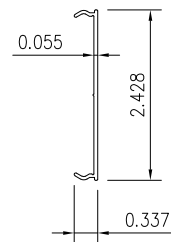
LNS HURRICANE
HOOK RAIL



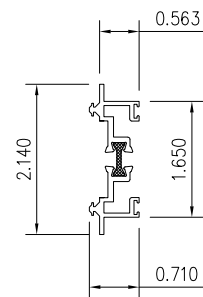
G3 SLIDER
HOOK RAIL



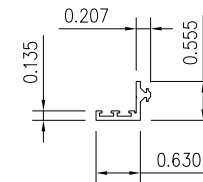
DOOR
ADAPTER



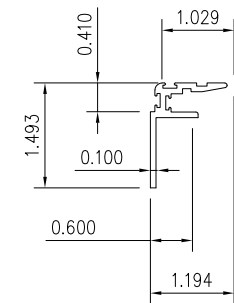
G3 SLIDER
CLOSURE STRIP



G3 SLIDER
PASSIVE ASTRAGAL



G3 SLIDER RWP
PART ASTRAGAL



POCKET
INTERLOCK

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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SOLAR INNOVATIONS, INC.

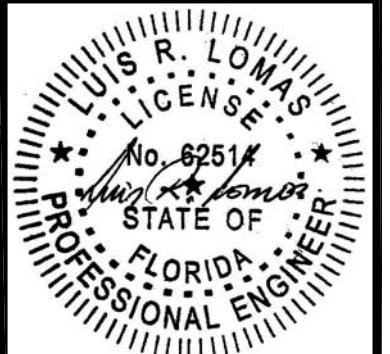
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI8100 G-3 LIFT AND SLIDE ALUMINUM
SLIDING GLASS DOOR - IMPACT
COMPONENTS

DRAWN: R.L.	DWG NO. 08-02493	REV D
SCALE NTS	DATE 09/04/14	SHEET 11 OF 11

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