

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	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, WITH SAFETY GLAZING
12. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.

13. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #12 OR #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.
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

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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 NON–IMPACT
NOTES

DRAWN:
A.R.

DWG NO.
08–03250

REV
C

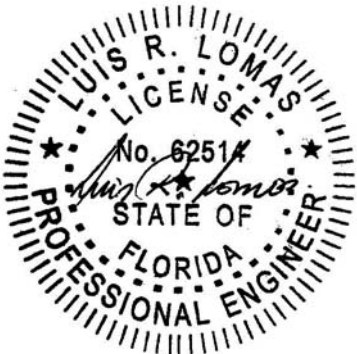
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DATE 05/02/18

SHEET 1 OF 13

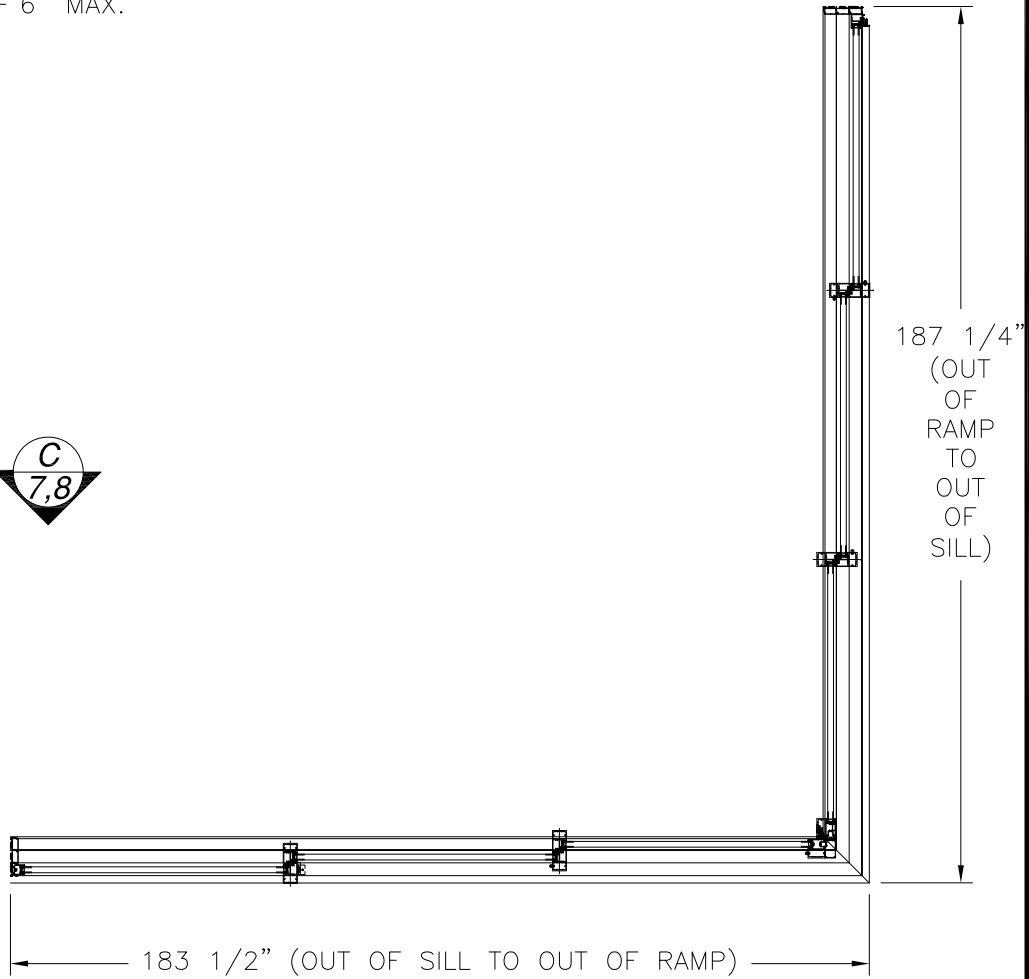
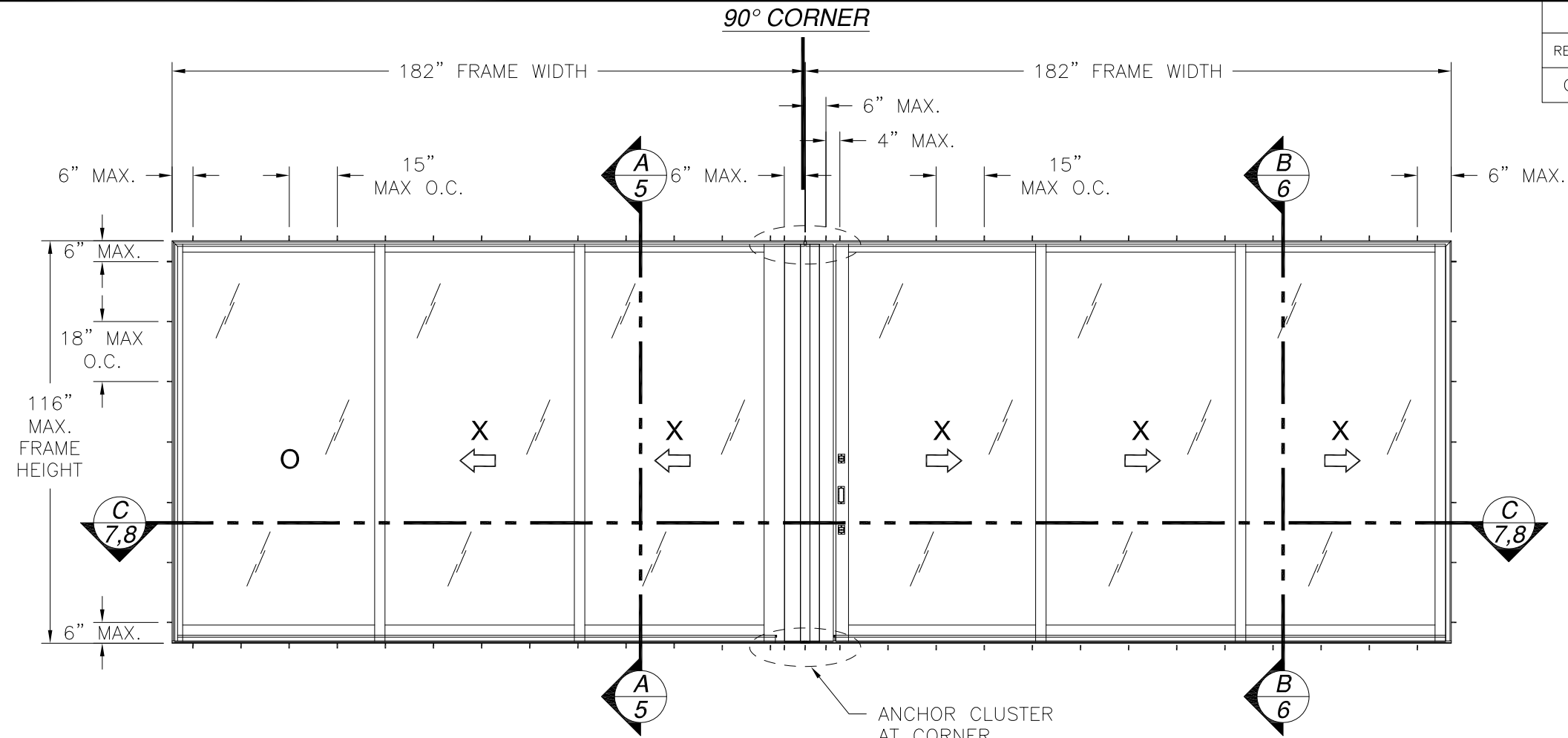
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SIGNED: 12/19/2023



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

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SERIES SI8000 G-3 MULTI TRACK 90° NO POST SLIDING GLASS DOOR NON-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
+50.0/-60.0PSF	NONE

SEE CHART #1, SHEET 4

WHERE WATER RESISTANCE PENETRATION IS REQUIRED

DESIGN PRESSURE RATING	IMPACT RATING
+55.0/-60.0PSF	NONE

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.

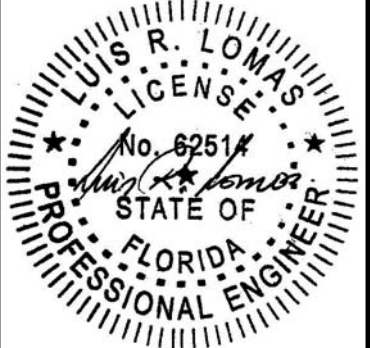
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PINE GROVE, PA 17963

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

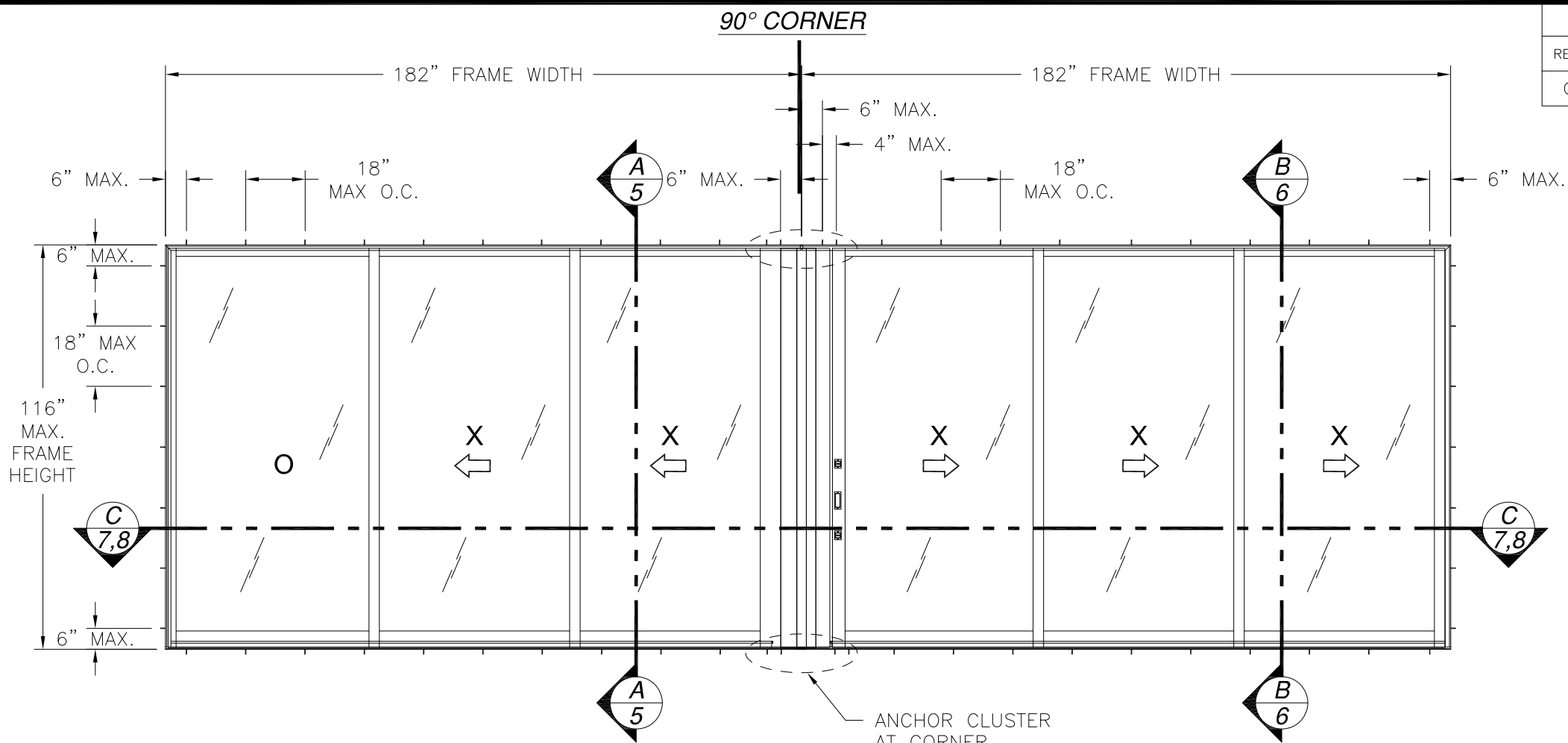
DRAWN: A.R.	DWG NO. 08-03250	REV C
SCALE NTS	DATE 05/02/18	SHEET 2 OF 13

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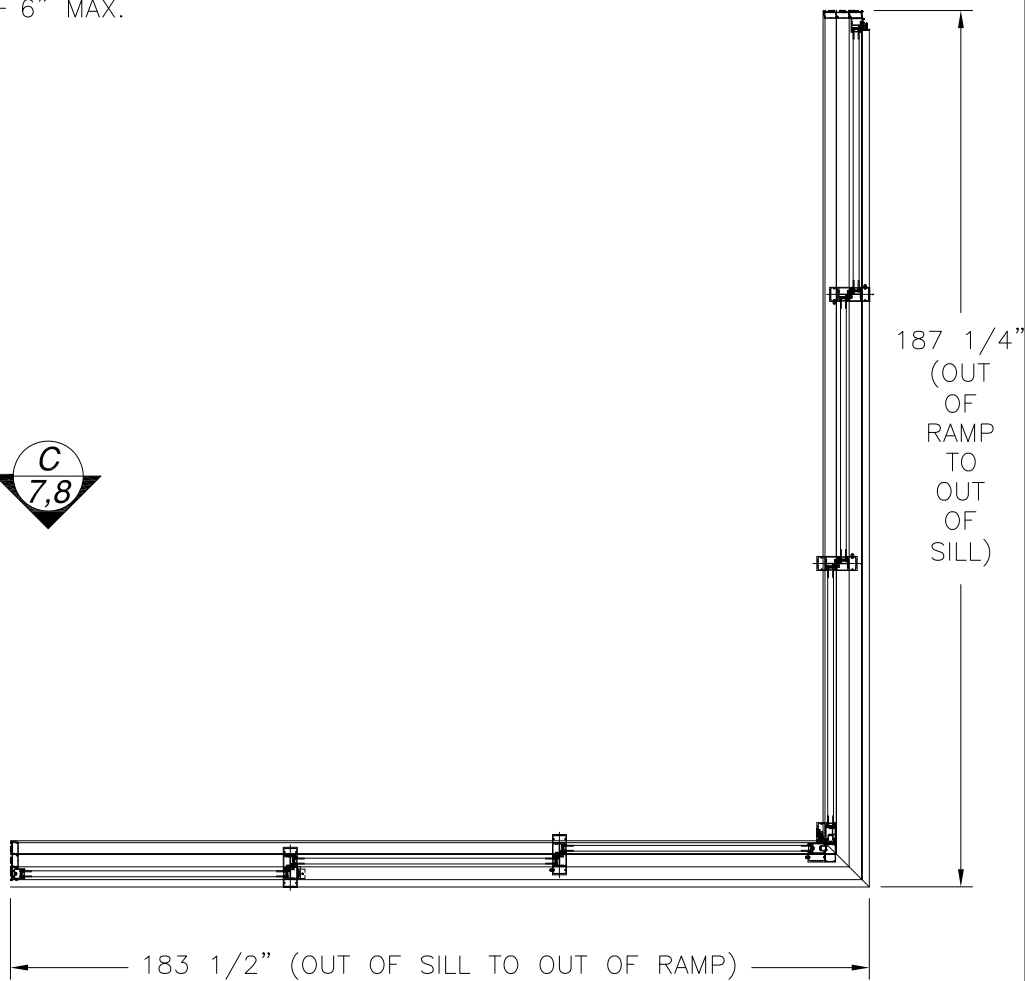
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C	REVISED DETAILS AND COMPONENTS	12/14/2023	R.L.



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

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SEE CHART #1, SHEET 4

WHERE WATER RESISTANCE PENETRATION IS REQUIRED

DESIGN PRESSURE RATING	IMPACT RATING
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SEE CHART #2, SHEET 4

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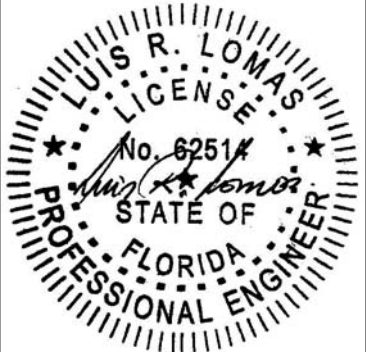
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PINE GROVE, PA 17963

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

DRAWN: A.R.	DWG NO. 08-03250	REV C
SCALE NTS	DATE 05/02/18	SHEET 3 OF 13

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Chart #1

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	50.0	90.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	88.0	50.0	80.6
84.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	81.7	50.0	74.9
90.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	85.4	50.0	76.3	50.0	69.9
96.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	88.4	50.0	80.1	50.0	71.5	50.0	65.5
102.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	89.8	50.0	81.6	50.0	75.4	50.0	67.3	50.0	61.7
108.0	50.0	90.0	50.0	90.0	50.0	90.0	50.0	83.6	50.0	75.7	50.0	69.8	50.0	63.5	-	-
114.38	50.0	90.0	50.0	90.0	50.0	88.0	50.0	77.9	50.0	70.4	50.0	64.7	50.0	60.0	-	-
120.0	50.0	90.0	50.0	90.0	50.0	80.7	50.0	70.1	50.0	62.3	50.0	56.3	-	-	-	-
126.0	50.0	90.0	50.0	82.5	50.0	69.5	50.0	60.3	49.0	53.5	44.3	48.3	-	-	-	-
132.0	50.0	88.9	50.0	71.6	50.0	60.2	47.9	52.2	42.4	46.3	-	-	-	-	-	-
138.0	50.0	77.7	50.0	62.6	48.2	52.6	41.7	45.5	36.9	40.3	-	-	-	-	-	-
144.00	50.0	68.3	50.0	55.0	42.3	46.2	36.6	39.9	32.4	35.3	-	-	-	-	-	-
150.0	50.0	60.4	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	-	-	-	-	-	-	-	-

WHERE WATER PENETRATION IS REQUIRED

Chart #2

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	82.5	90.0	82.5	90.0	82.5	90.0	82.5	90.0	82.5	90.0	82.5	90.0	80.6	88.0	73.9	80.6
84.0	82.5	90.0	82.5	90.0	82.5	90.0	82.5	90.0	82.5	90.0	82.5	90.0	74.9	81.7	68.6	74.9
90.0	82.5	90.0	82.5	90.0	82.5	90.0	82.5	90.0	82.5	90.0	78.3	85.4	69.9	76.3	64.1	69.9
96.0	82.5	90.0	82.5	90.0	82.5	90.0	82.5	90.0	81.0	88.4	73.4	80.1	65.5	71.5	60.1	65.5
102.0	82.5	90.0	82.5	90.0	82.5	90.0	82.3	89.8	74.8	81.6	69.1	75.4	61.7	67.3	56.5	61.7
108.0	82.5	90.0	82.5	90.0	82.5	90.0	76.6	83.6	69.4	75.7	64.0	69.8	58.2	63.5	-	-
114.38	82.5	90.0	82.5	90.0	80.7	88.0	71.4	77.9	64.5	70.4	59.3	64.7	55.0	60.0	-	-
120.0	82.5	90.0	82.5	90.0	74.0	80.7	64.2	70.1	57.1	62.3	51.6	56.3	-	-	-	-
126.0	82.5	90.0	75.6	82.5	63.7	69.5	55.2	60.3	49.0	53.5	44.3	48.3	-	-	-	-
132.0	81.5	88.9	65.7	71.6	55.2	60.2	47.9	52.2	42.4	46.3	-	-	-	-	-	-
138.0	71.2	77.7	57.4	62.6	48.2	52.6	41.7	45.5	36.9	40.3	-	-	-	-	-	-
144.00	62.6	68.3	50.4	55.0	42.3	46.2	36.6	39.9	32.4	35.3	-	-	-	-	-	-
150.0	55.3	60.4	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	-	-	-	-	-	-	-	-

WHERE WATER PENETRATION IS NOT REQUIRED

SIGNED: 12/19/2023

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31 ROBERTS RD
PINE GROVE, PA 17963

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

DRAWN:
A.R.

DWG NO.
08-03250

REV
C

SCALE
NTS

DATE
05/02/18

SHEET
4 OF 13

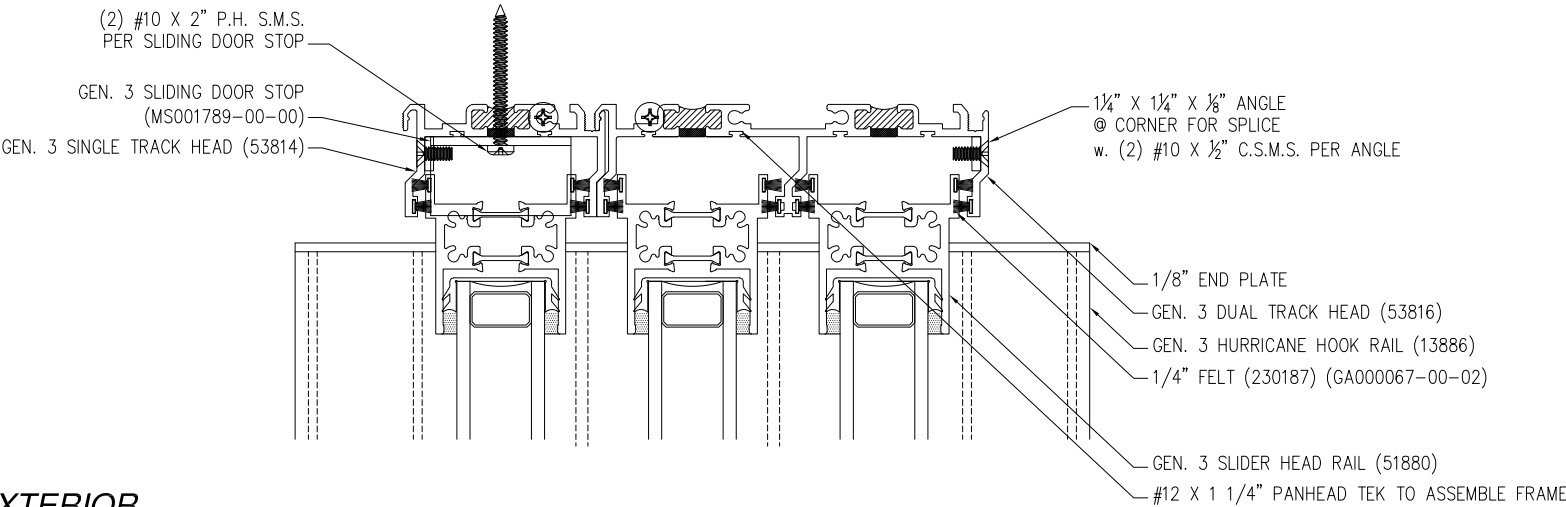
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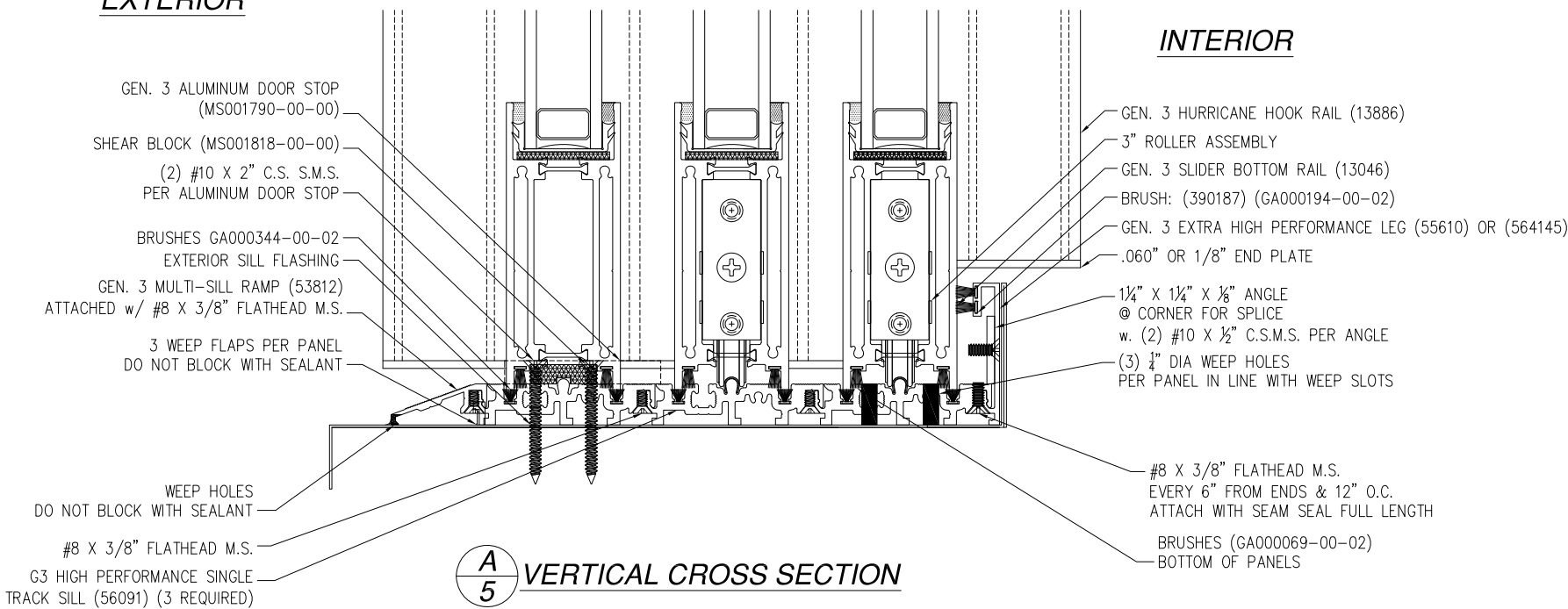
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FOR INSTALLATION DETAILS REFER TO SHEETS 7 - 10

REVISIONS			
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EXTERIOR

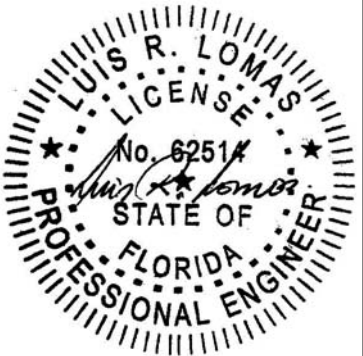
INTERIOR



A
5 VERTICAL CROSS SECTION

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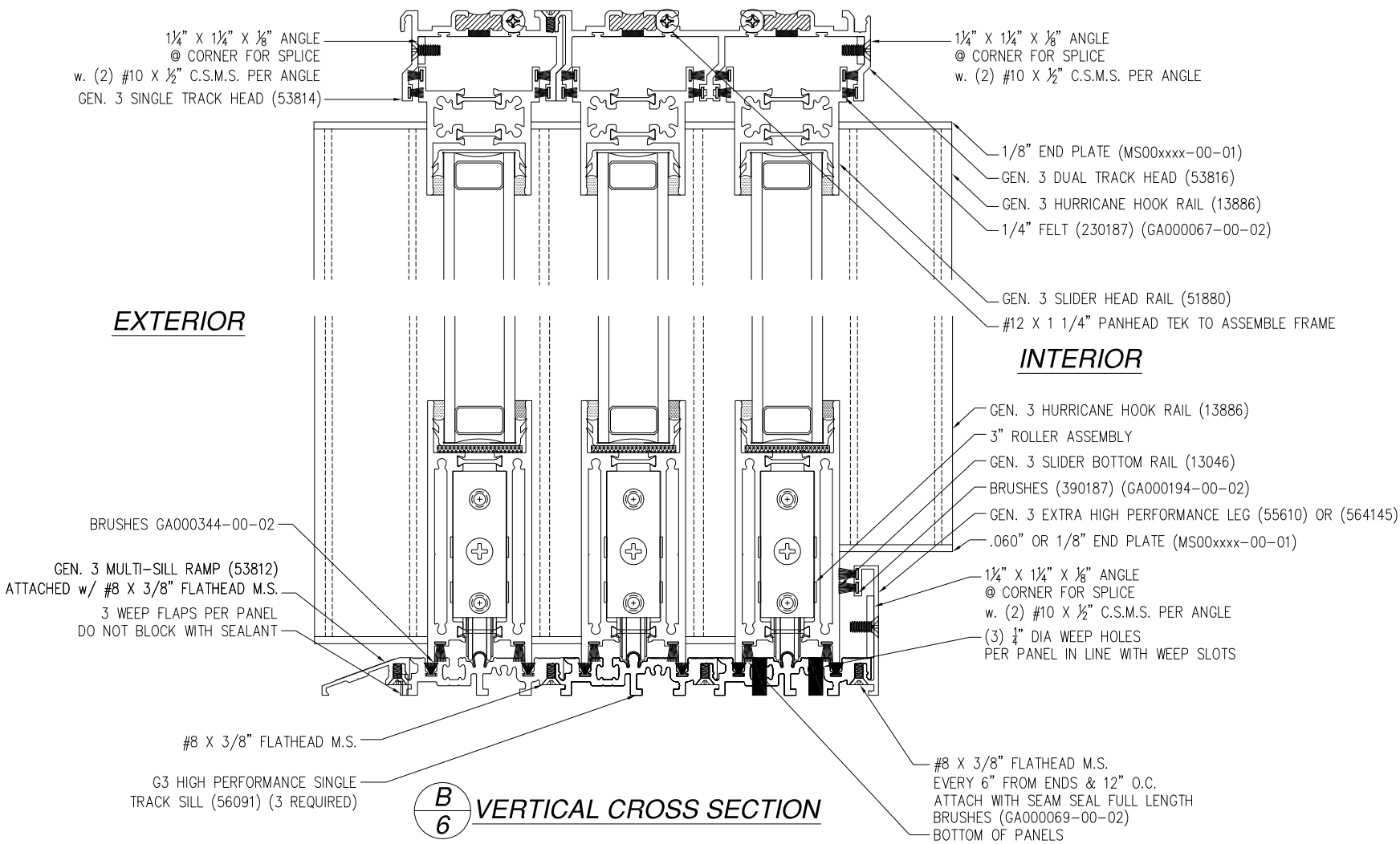
SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI8000 G-3 MULTI TRACK 90° NO POST ALUMINUM SLIDING GLASS DOOR NON-IMPACT VERTICAL CROSS SECTION AND GLAZING DETAIL		
DRAWN: A.R.	DWG NO. 08-03250	REV C
SCALE NTS	DATE 05/02/18	SHEET 5 OF 13
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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SERIES SI8000 G-3 MULTI TRACK 90° NO POST
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VERTICAL CROSS SECTION

DRAWN: A.R.	DWG NO. 08-03250	REV C
SCALE NTS	DATE 05/02/18	SHEET 6 OF 13

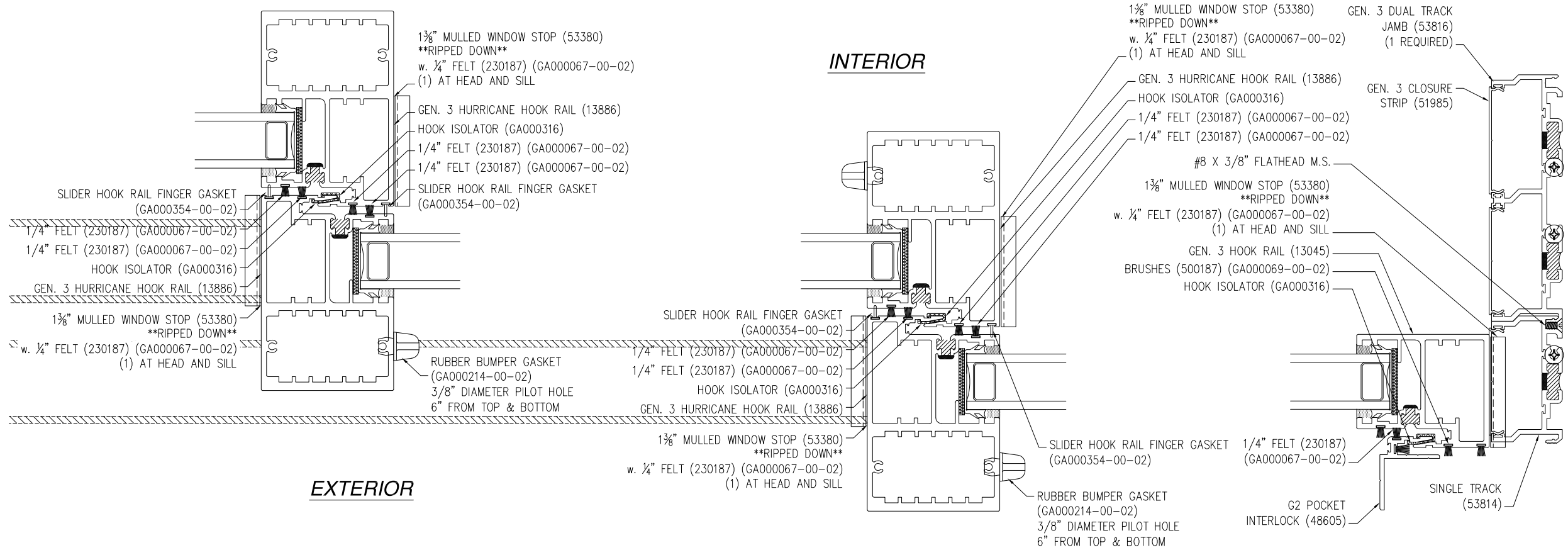
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C
8 HORIZONTAL CROSS SECTION

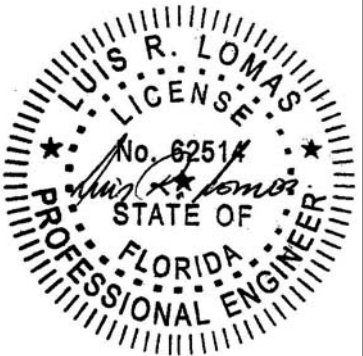
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ALUMINUM SLIDING GLASS DOOR NON-IMPACT
HORIZONTAL CROSS SECTION

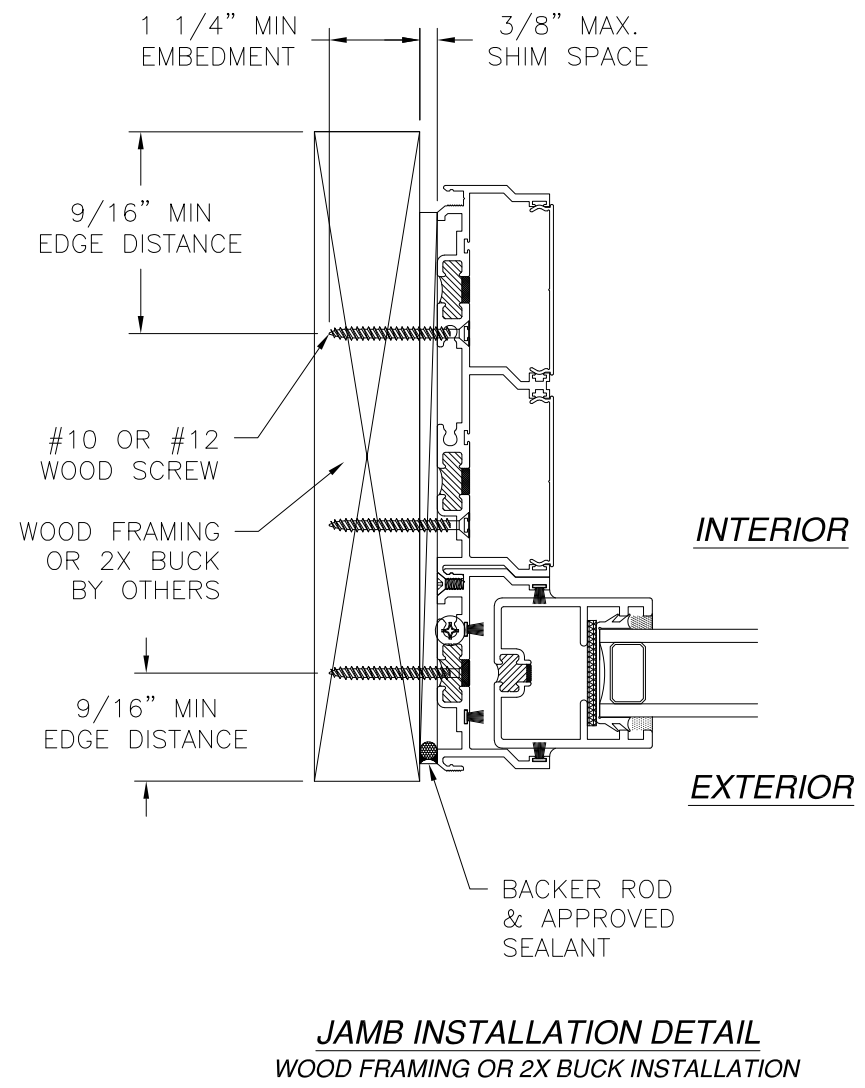
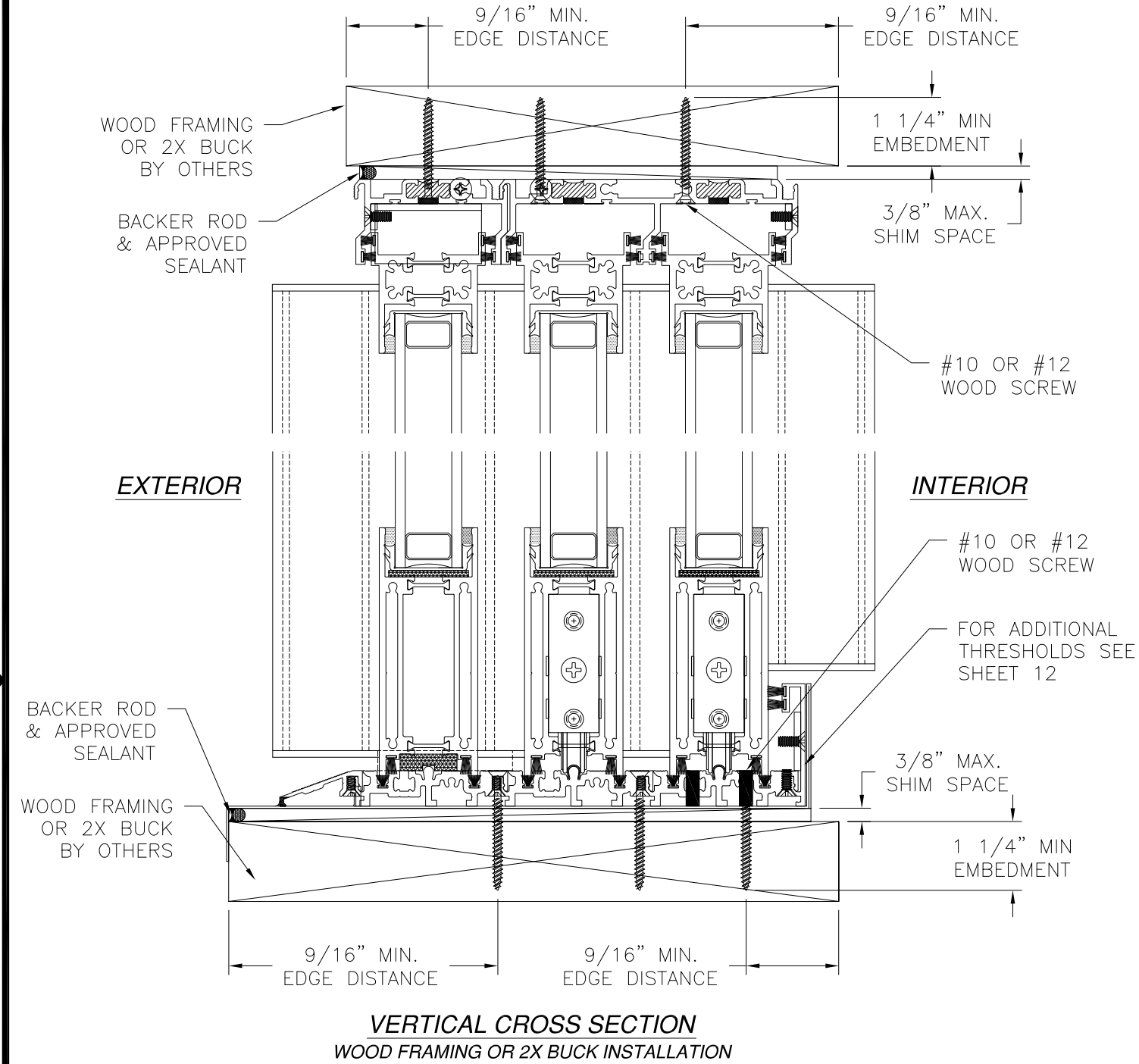
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NOTES:
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2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

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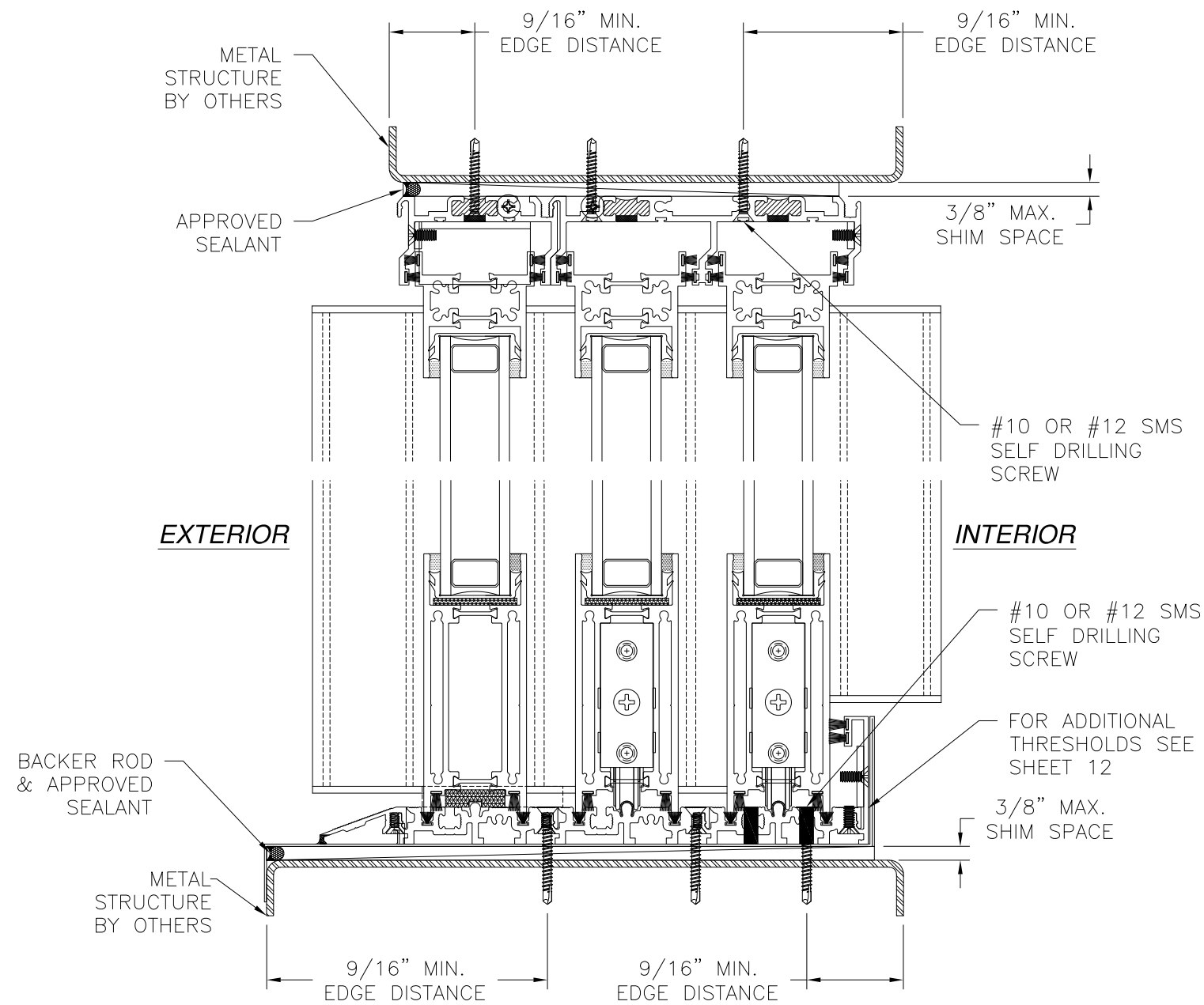
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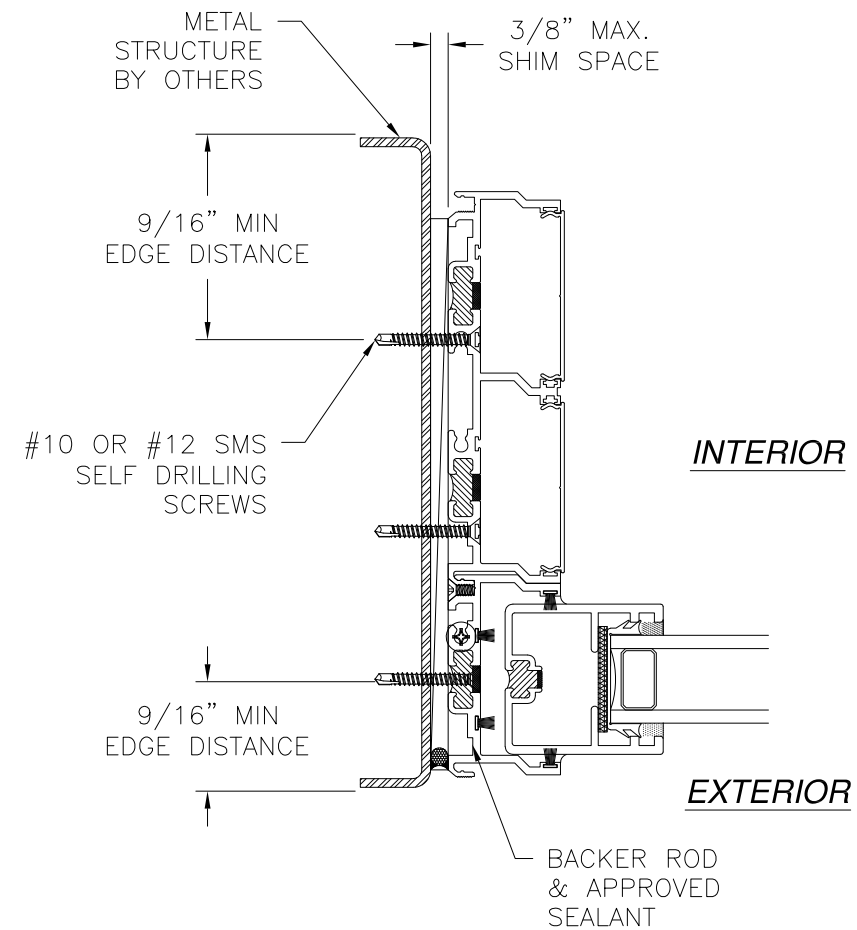
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VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION

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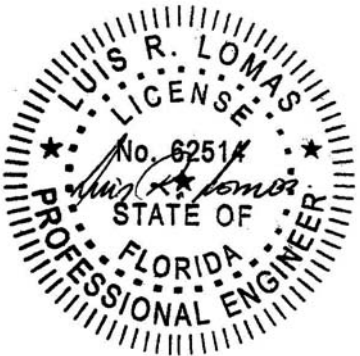
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SHEET 10 OF 13

L. ROBERTO LOMAS P.E.

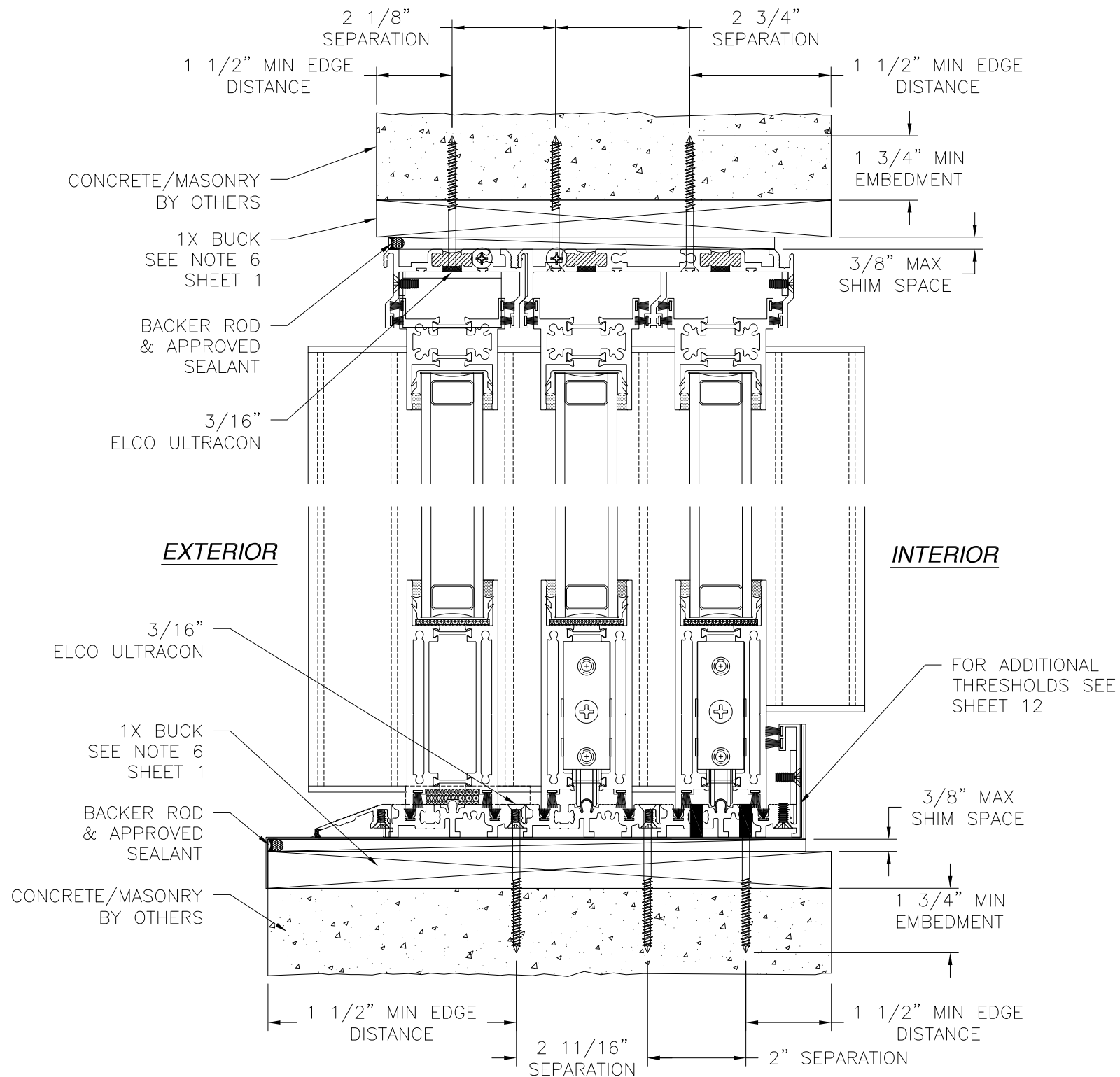
208 7th Ave, INDIALANTIC, FL 32903

434-688-0609 rllomas@lrlomaspe.com



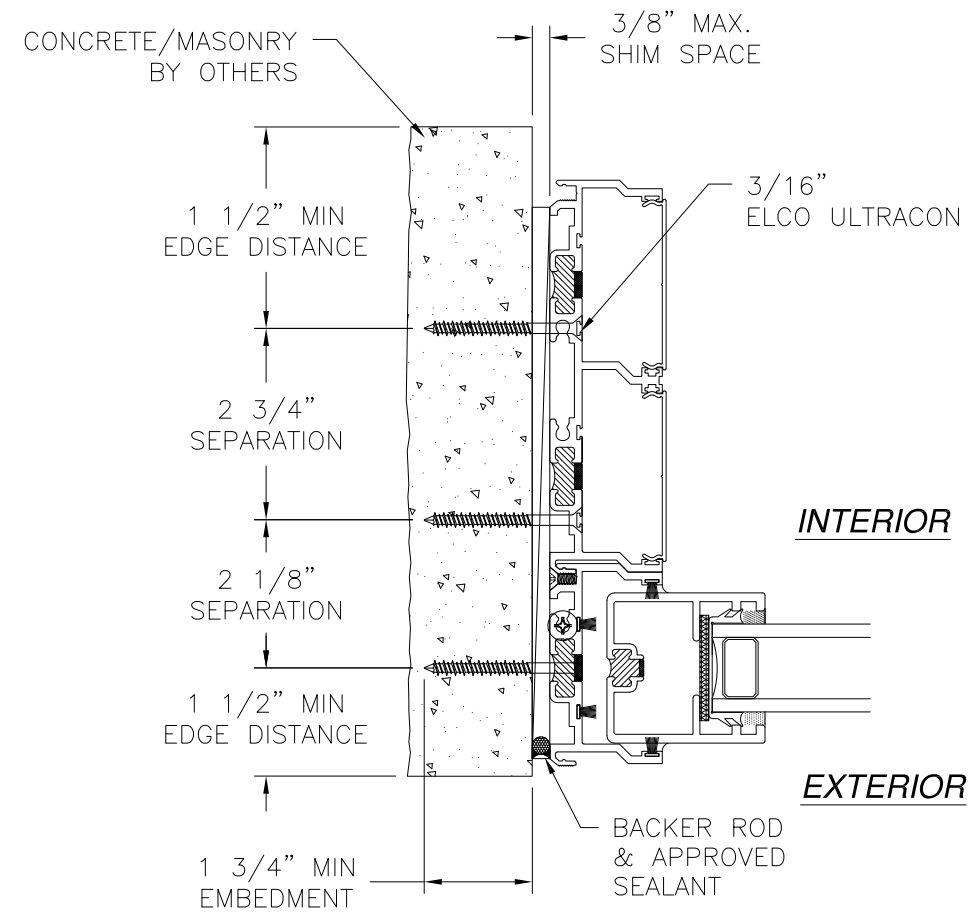
Luis R. Lomas P.E.
FL No.: 62514

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	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

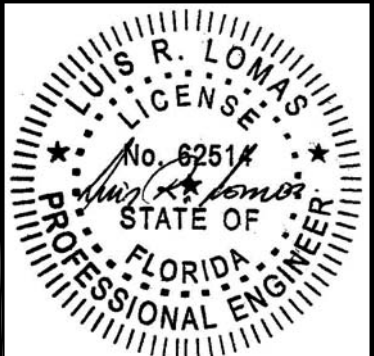
NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS,
NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE
DESIGNED IN ACCORDANCE WITH ASTM E2112



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

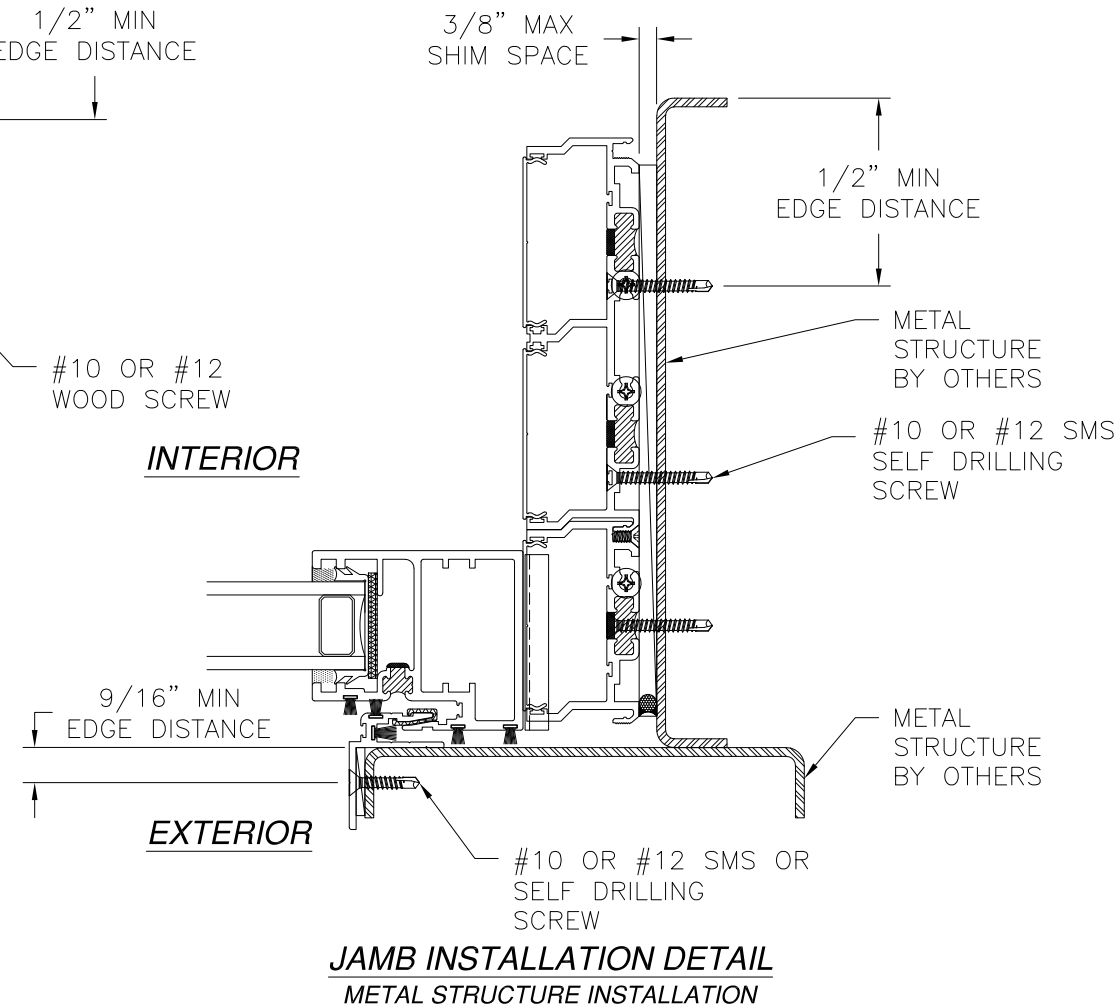
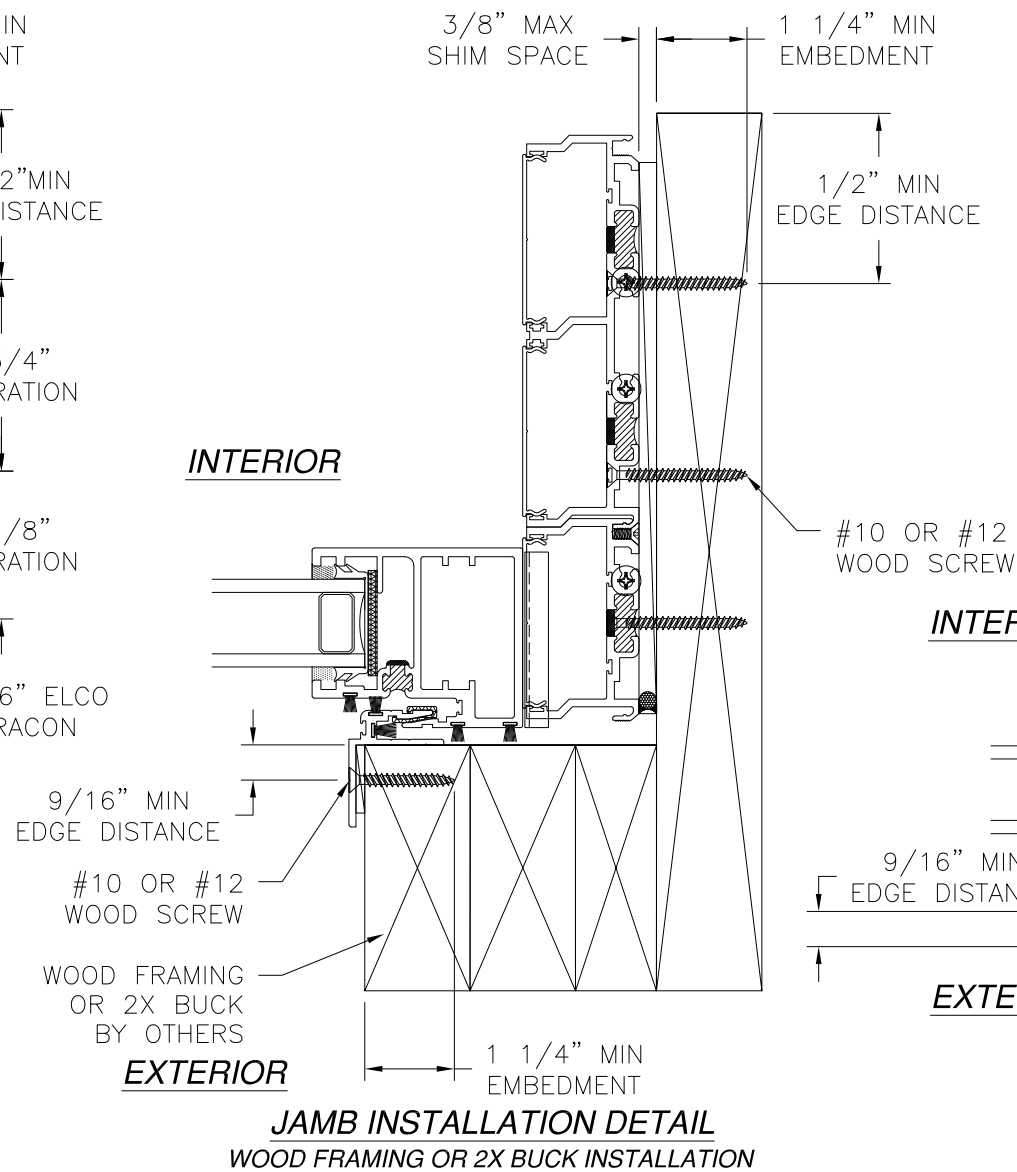
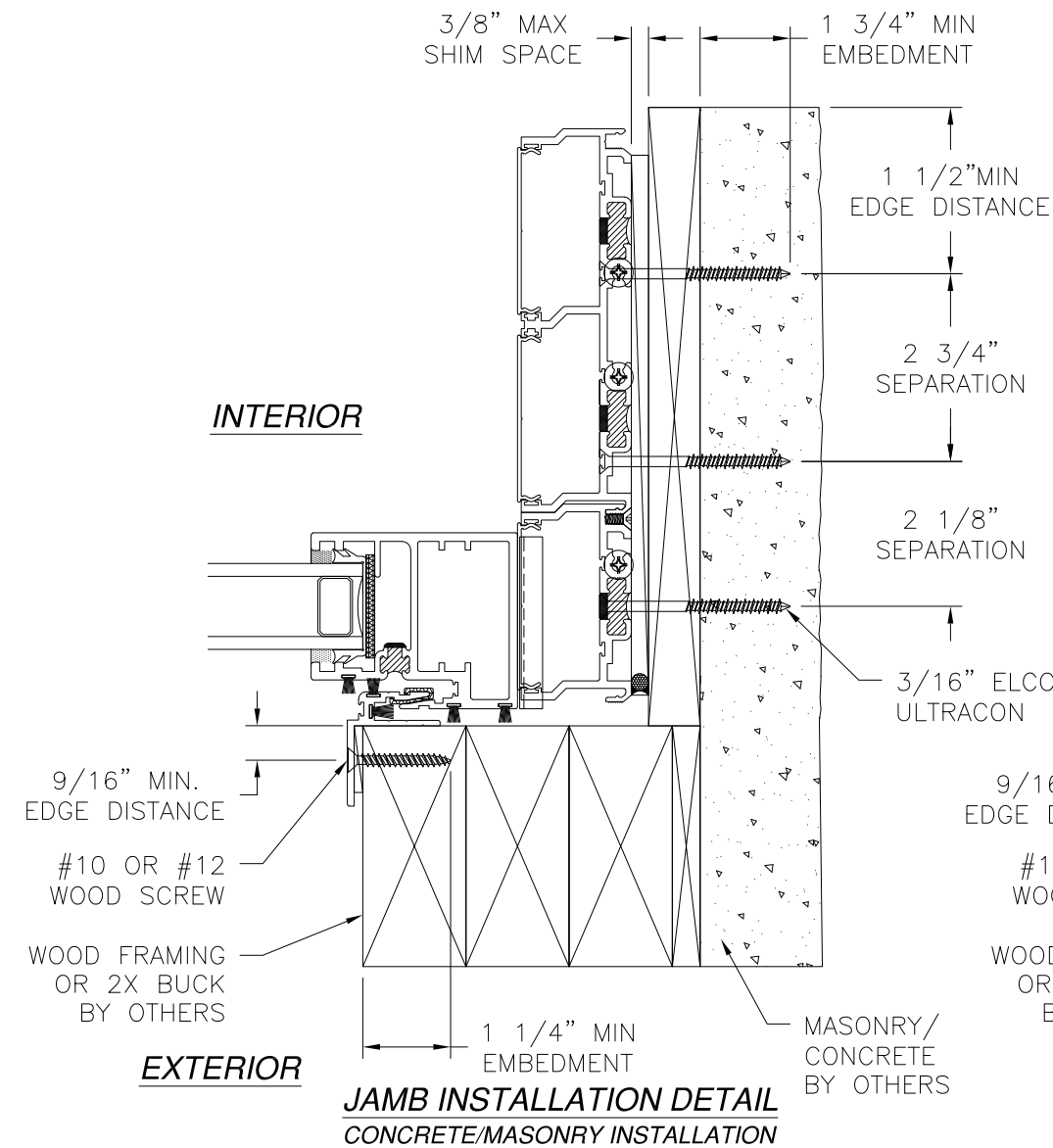
SIGNED: 12/19/2023

SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI8000 G-3 MULTI TRACK 90° NO POST ALUMINUM SLIDING GLASS DOOR NON-IMPACT INSTALLATION DETAILS		
DRAWN: A.R.	DWG NO. 08-03250	REV C
SCALE NTS	DATE 05/02/18	SHEET 11 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

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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 NON-IMPACT
POCKET INSTALLATION DETAILS

DRAWN:
A.R.

DWG NO.
08-03250

REV
C

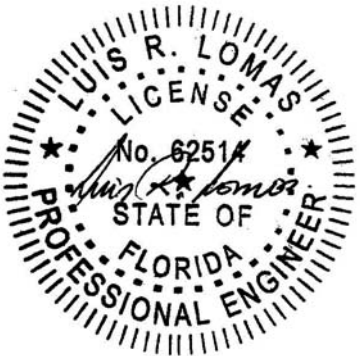
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NTS

DATE
05/02/18

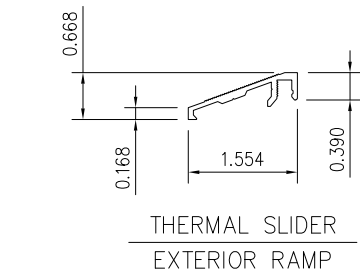
SHEET
12 OF 13

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

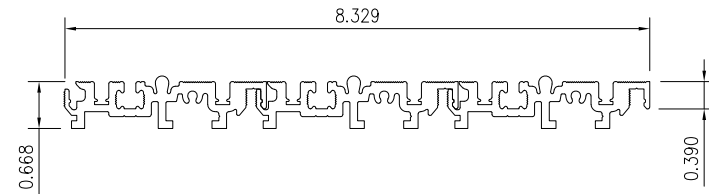
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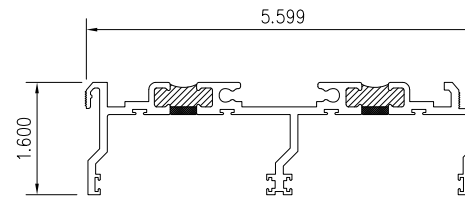
Luis R. Lomas P.E.
FL No.: 62514



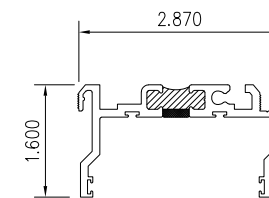
THERMAL SLIDER
EXTERIOR RAMP



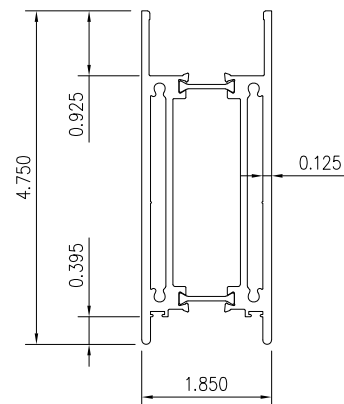
G3 THERMAL SLIDER
DUAL TRACK SILL



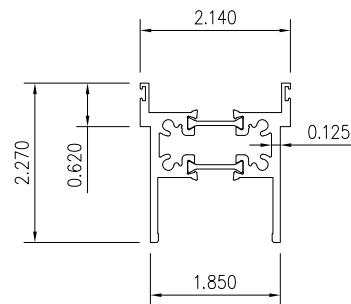
G3 THERMAL SLIDER
DUAL TRACK HEAD / JAMB



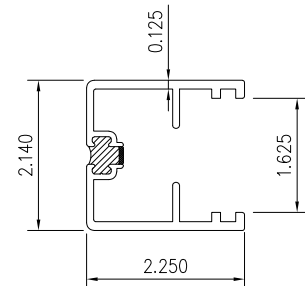
G3 THERMAL SLIDER
SINGLE TRACK HEAD / JAMB



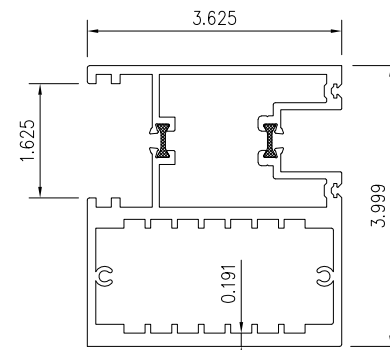
G3 SLIDER
BOTTOM RAIL



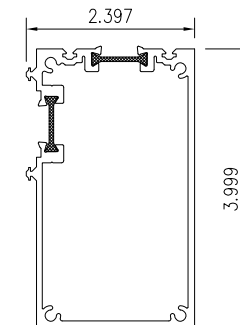
G3 SLIDER
HEAD RAIL



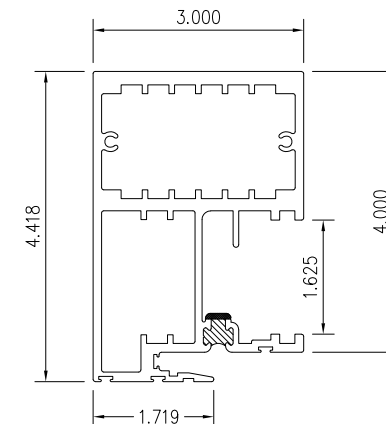
G3 SLIDER
HANDLE RAIL



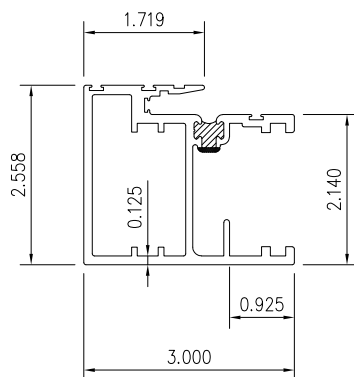
G3 HURRICANE
FLUSH RAIL



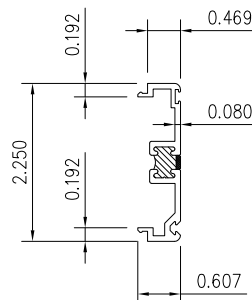
90° NO POST
CORNER



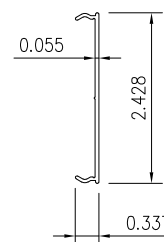
G3 HURRICANE
HOOK RAIL (13886)



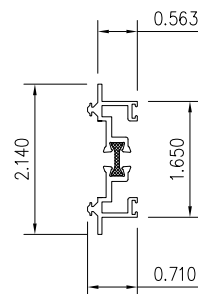
G3 SLIDER
HOOK RAIL



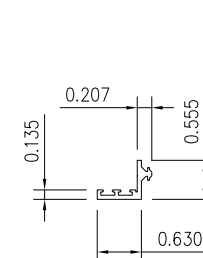
DOOR
ADAPTER



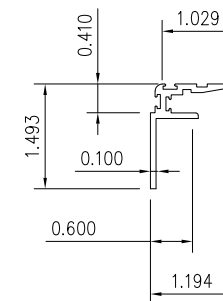
G3 SLIDER
CLOSURE STRIP



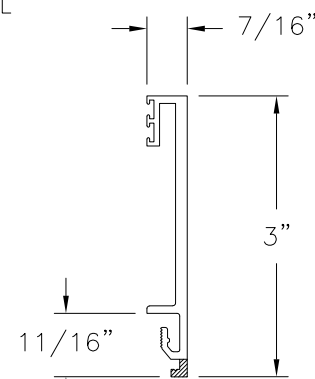
G3 SLIDER
PASSIVE ASTRAGAL



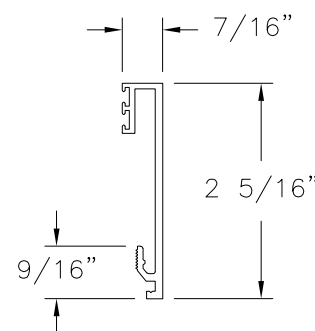
G3 SLIDER RWP
PART ASTRAGAL



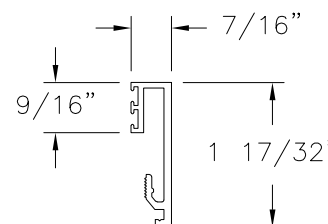
POCKET
INTERLOCK



**GEN 3 EXTRA HIGH
PERFORMANCE LEG**
(S64145)



**GEN 3 EXTRA HIGH
PERFORMANCE LEG**
(S55610)



**GEN 3 EXTRA HIGH
PERFORMANCE LEG**

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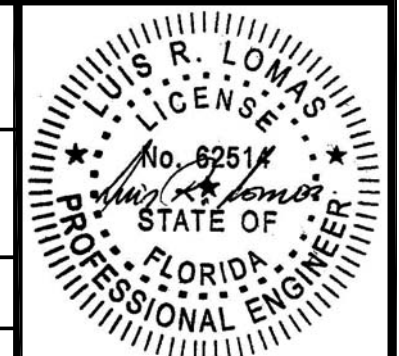
SCALE NTS

DATE 05/02/18

SHEET 13 OF 13

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