

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED PER NEW REQUIREMENTS	11/28/23	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD OR METAL FRAMING OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 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.
4. ALLOWABLE STRESS INCREASE OF 1/3 WAS NOT USED IN THE DESIGN OF THE PRODUCT SHOWN HEREIN. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
5. FRAME MATERIAL: EXTRUDED ALUMINUM.
6. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 6 FOR GLASS DETAILS.
7. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16” OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4”.

9. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE 1/4” LAG SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 2” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
10. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4” TAPCONS 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 ELEVATION AND INSTALLATION DETAILS.
11. FOR ANCHORING INTO METAL STRUCTURE USE 1/4” 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.
12. ALL FASTENERS TO BE CORROSION RESISTANT.
13. 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. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8” THICK MINIMUM

C. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.

D. MASONRY – HOLLOW/FILLED BLOCK WITH COMPRESSIVE STRENGTH OF 2000 PSI.

SIGNED: 11/28/2023

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SOLAR INNOVATIONS, INC.

31 ROBERTS ROAD
PINE GROVE, PA 17963

SERIES SI5200 FLAT WELDED CURB SKYLIGHT
IMPACT
NOTES

DRAWN:
V.L.

DWG NO.
08-02213

REV
F

SCALE NTS

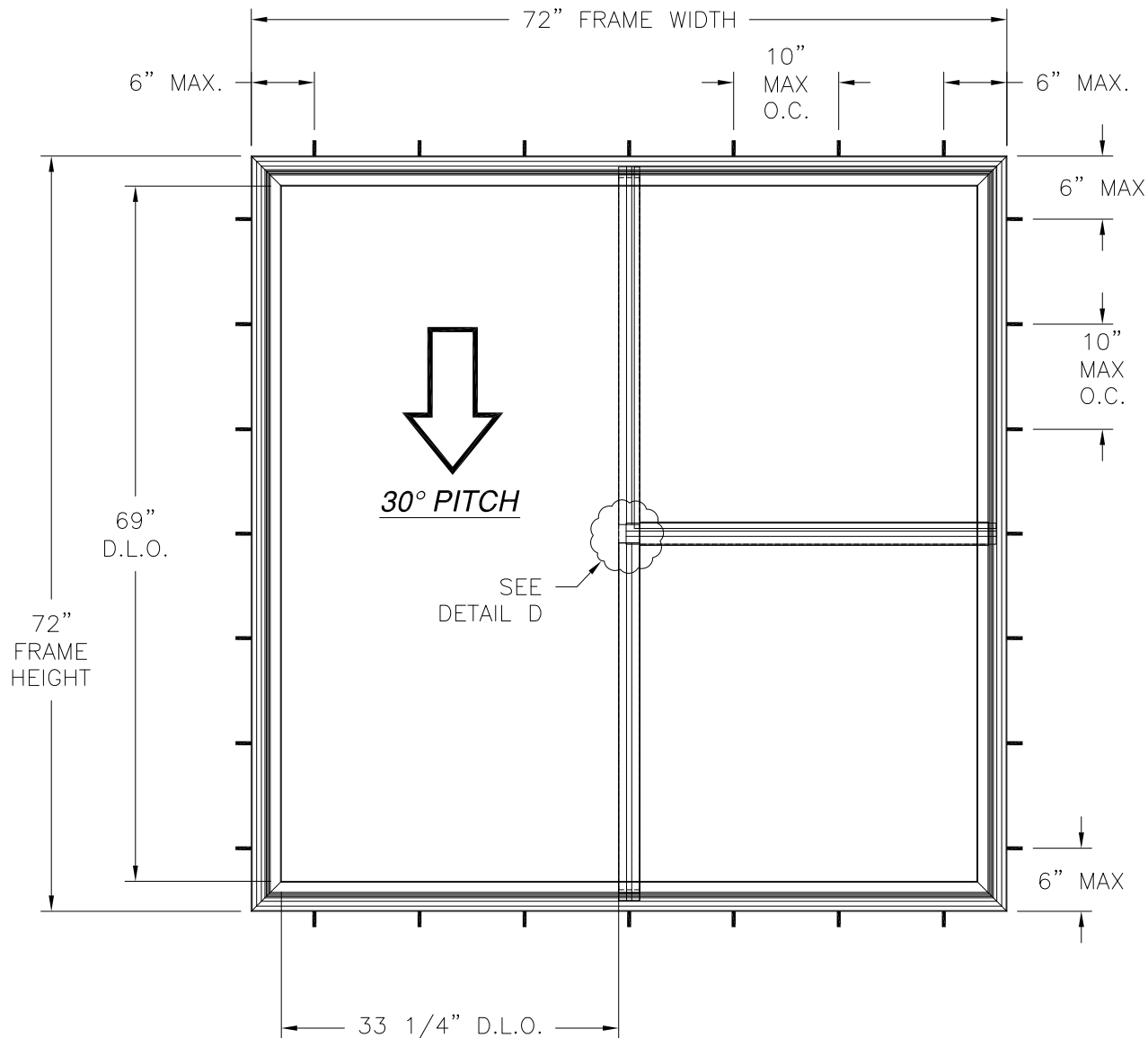
DATE 08/30/13

SHEET 1 OF 6

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434-688-0609 rllomas@lrlomaspe.com

LUIS R. LOMAS
P.E.
No. 62514
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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



SERIES SI5200 FLAT WELDED CURB SKYLIGHT
EXTERIOR VIEW FRAME
30° PITCH SHOWN. OTHER SLOPES ARE APPROVED

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	LARGE AND SMALL MISSILE IMPACT

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

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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	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	91.4	91.4
48.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.0	90.0	80.0	80.0
54.0	100.0	100.0	100.0	100.0	100.0	100.0	91.4	91.4	80.0	80.0	-	-
60.0	100.0	100.0	100.0	100.0	96.0	96.0	82.3	82.3	-	-	-	-
66.0	100.0	100.0	100.0	100.0	87.3	87.3	-	-	-	-	-	-
72.0	100.0	100.0	90.9	90.9	80.0	80.0	-	-	-	-	-	-
78.0	88.5	88.5	72.4	72.4	-	-	-	-	-	-	-	-
84.0	70.5	70.5	57.5	57.5	-	-	-	-	-	-	-	-
90.0	57.1	57.1	-	-	-	-	-	-	-	-	-	-
96.0	46.9	46.9	-	-	-	-	-	-	-	-	-	-

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IMPACT
ELEVATION

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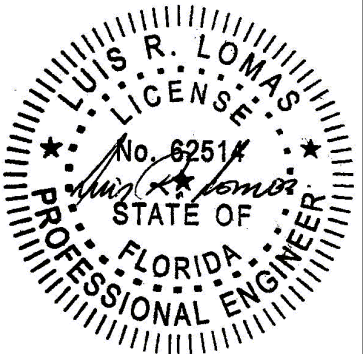
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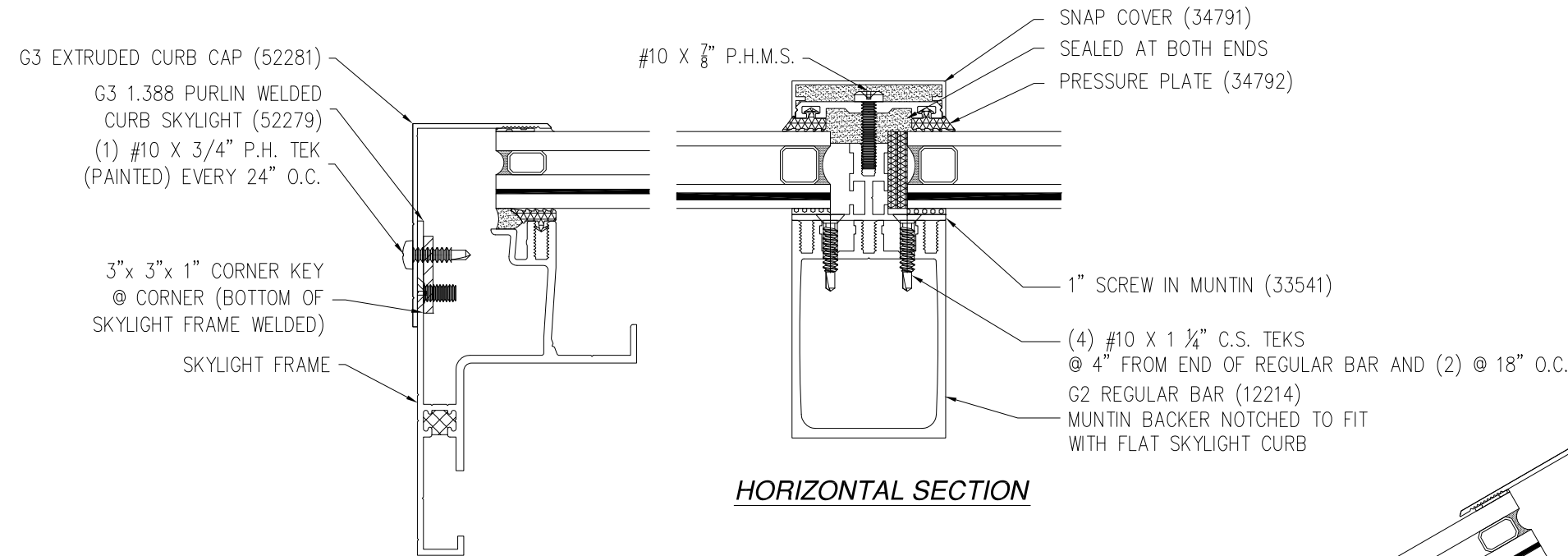
SHEET
2 OF 6

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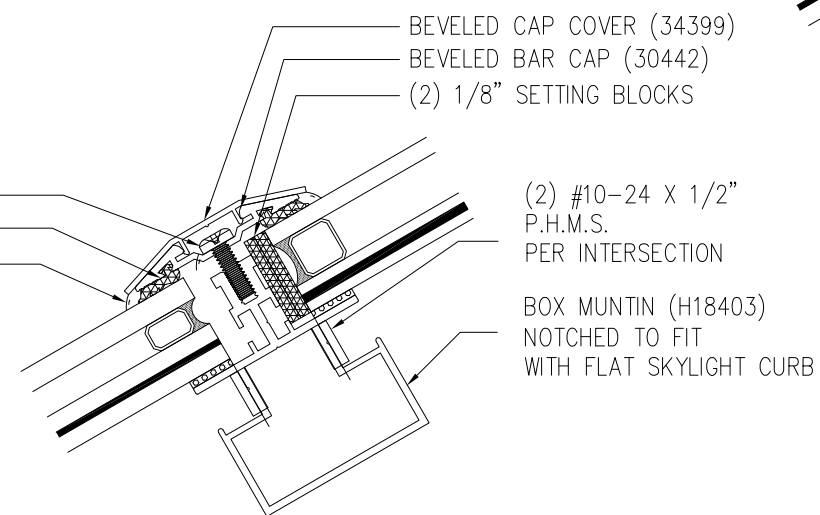
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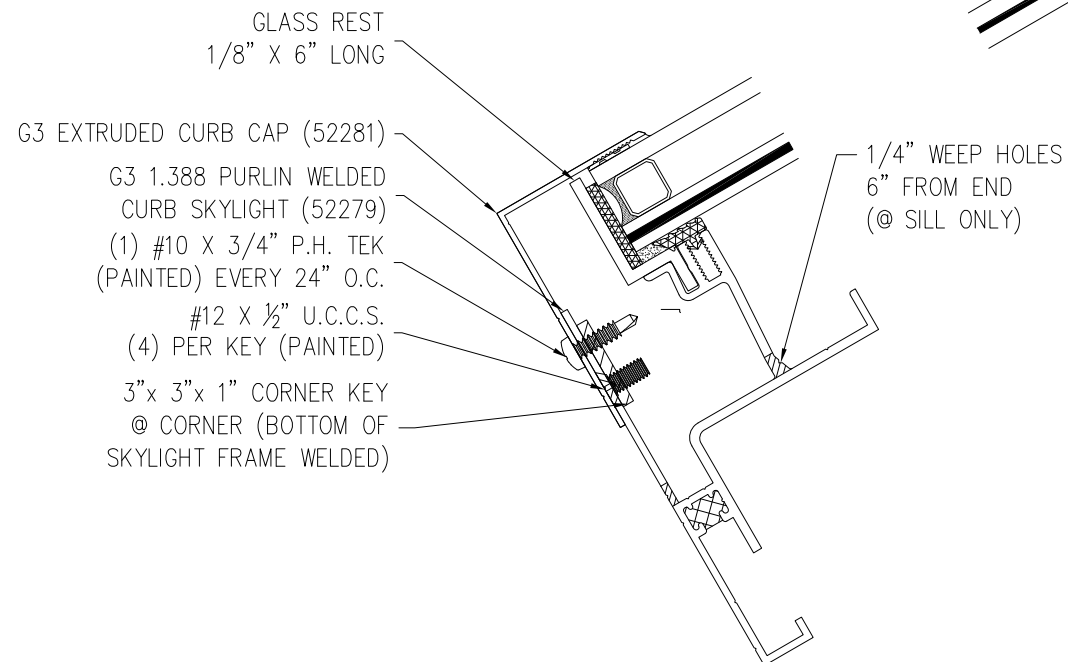
Luis R. Lomas P.E.
FL No.: 62514



HORIZONTAL SECTION



MUNTIN DETAIL



VERTICAL SECTION

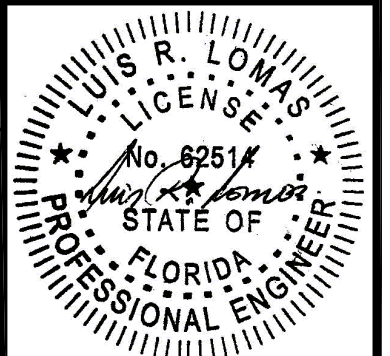
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NOTES:

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

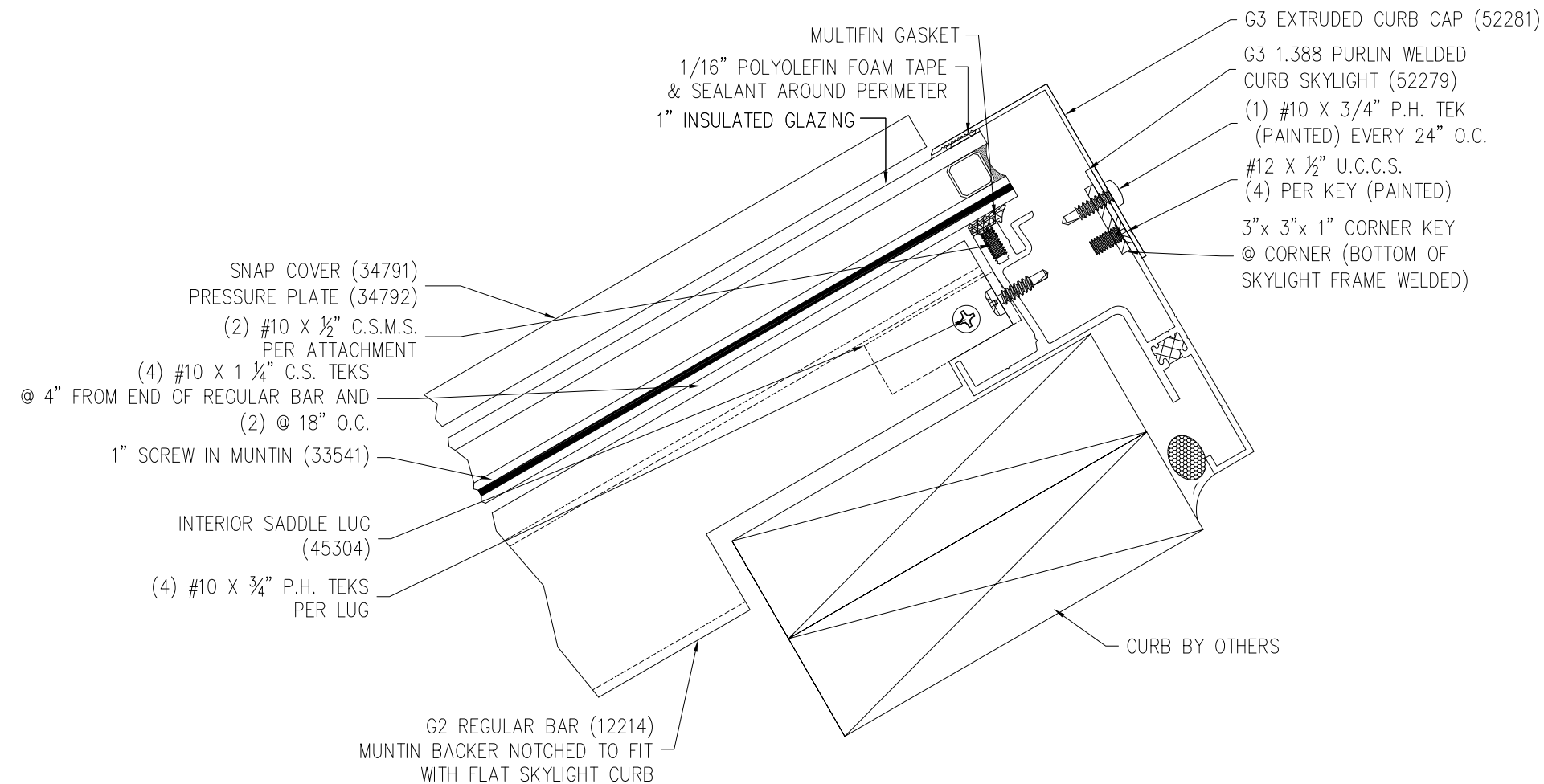
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SOLAR INNOVATIONS, INC. 31 ROBERTS ROAD PINE GROVE, PA 17963		
SERIES SI5200 FLAT WELDED CURB SKYLIGHT IMPACT CROSS SECTIONS		
DRAWN: V.L.	DWG NO. 08-02213	REV F
SCALE NTS	DATE 08/30/13	SHEET 3 OF 6
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		



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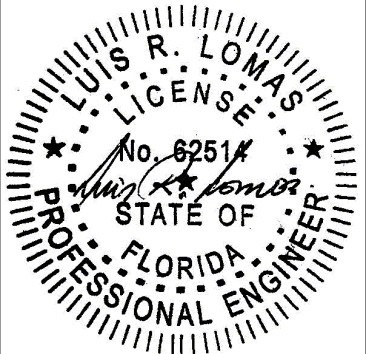
**INTERMEDIATE RAFTER
DETAIL**

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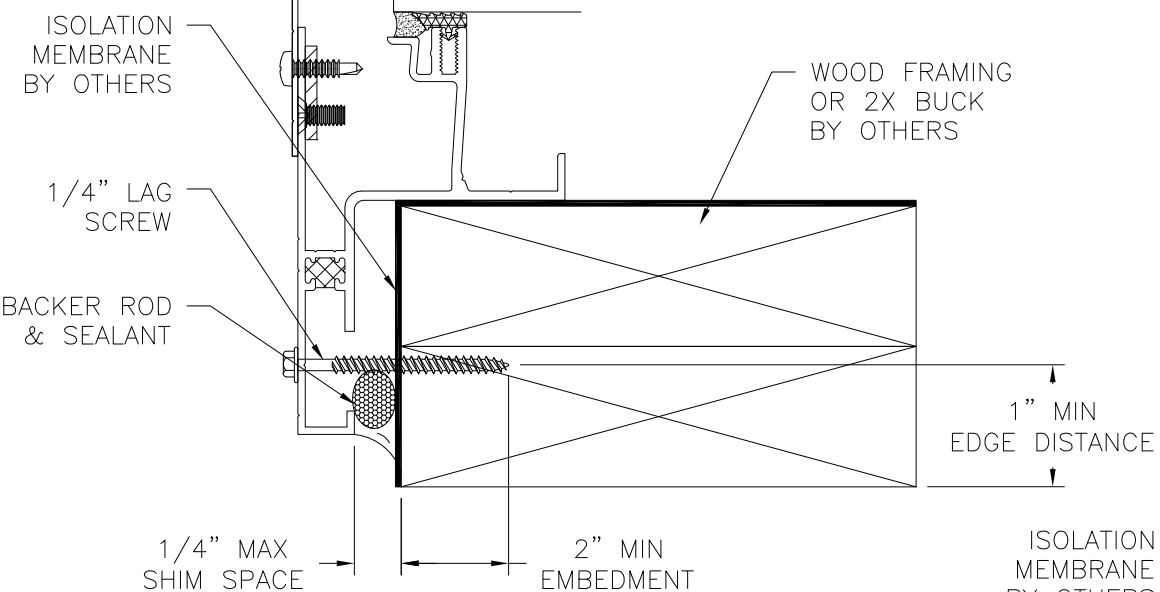
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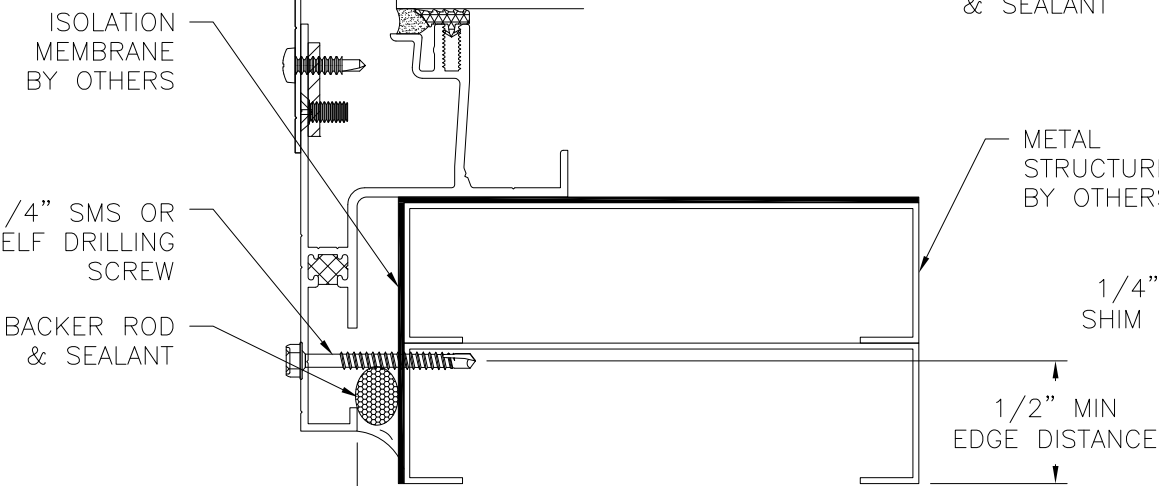


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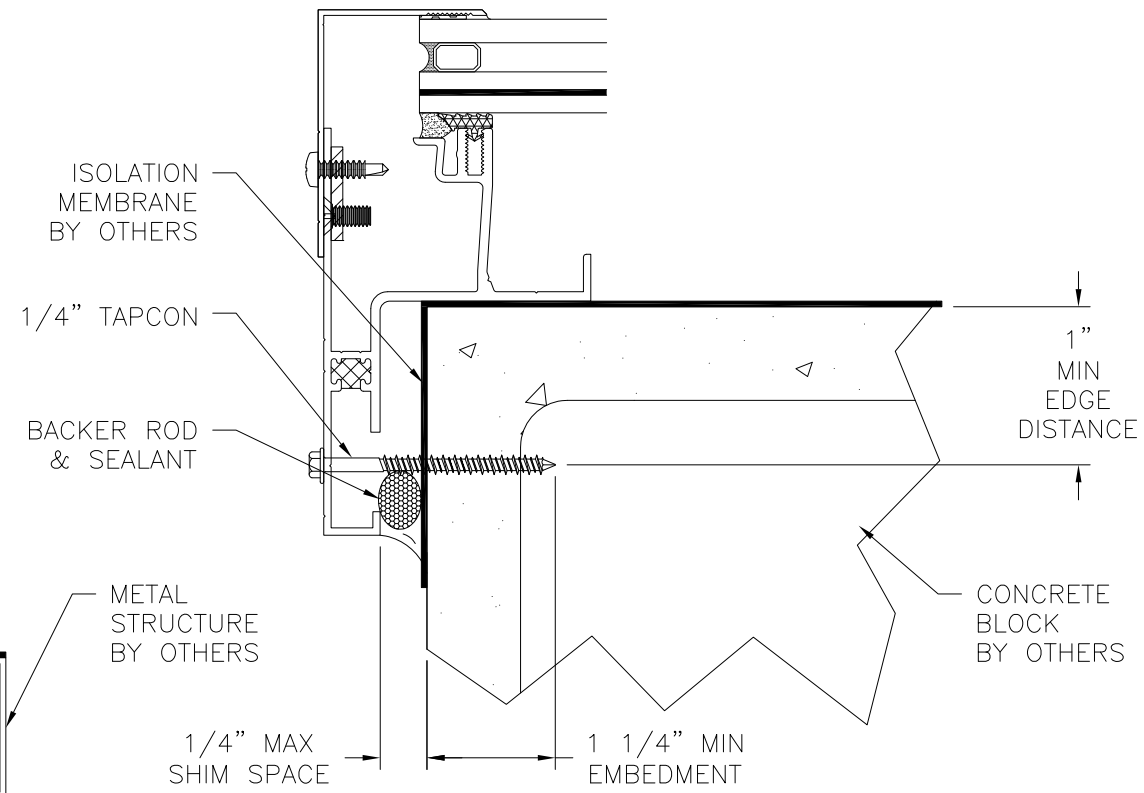
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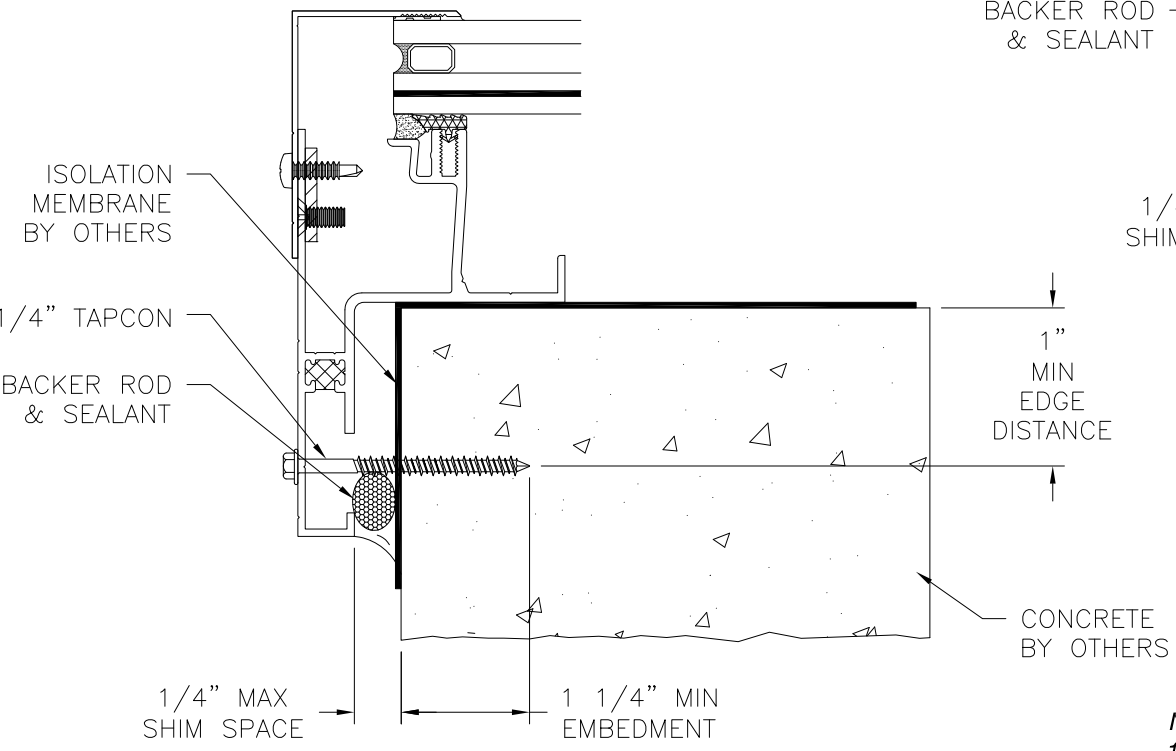
JAMB SHOWN, HEAD AND SILL SIMILAR
WOOD FRAMING OR 2X BUCK INSTALLATION



JAMB SHOWN, HEAD AND SILL SIMILAR
METAL STRUCTURE INSTALLATION



JAMB SHOWN, HEAD AND SILL SIMILAR
MASONRY INSTALLATION



JAMB SHOWN, HEAD AND SILL SIMILAR
CONCRETE/MASONRY INSTALLATION

- NOTES:**
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31 ROBERTS ROAD
PINE GROVE, PA 17963

SERIES S15200 FLAT WELDED CURB SKYLIGHT
IMPACT
INSTALLATION DETAILS

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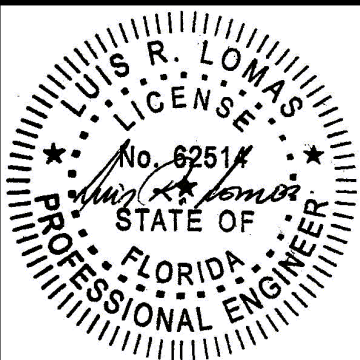
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5 OF 6

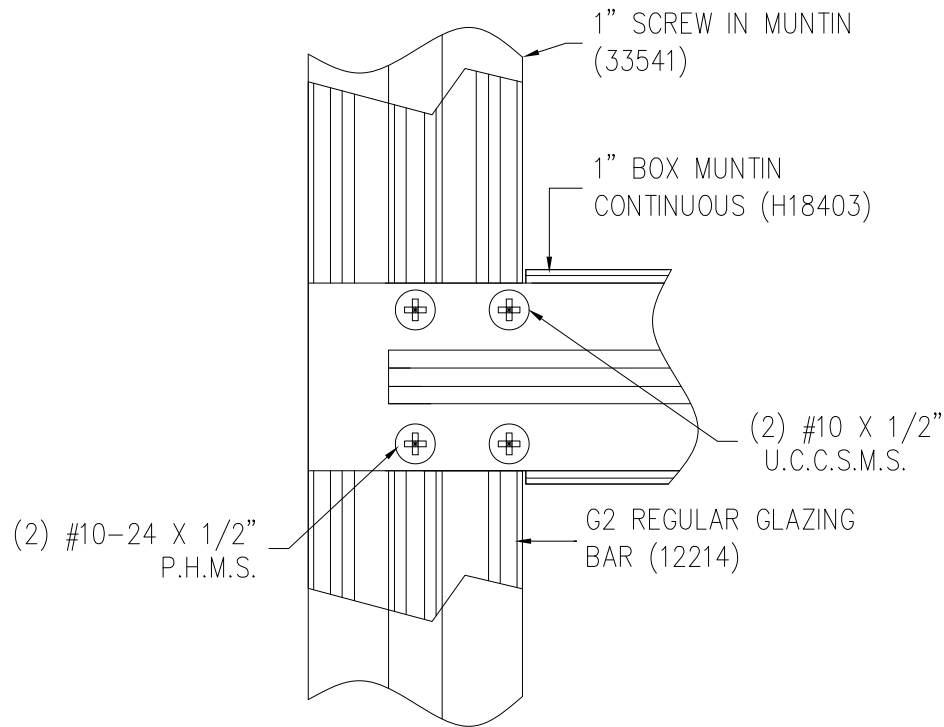
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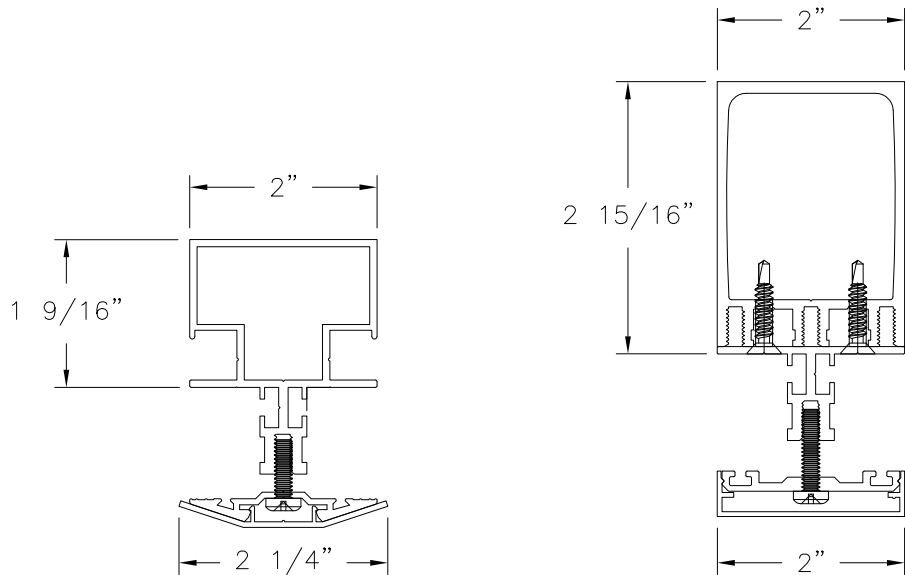
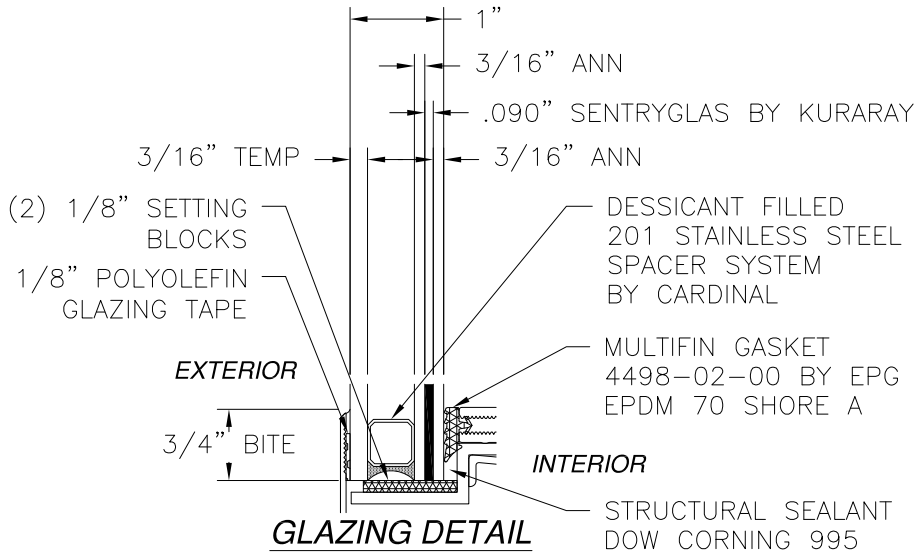


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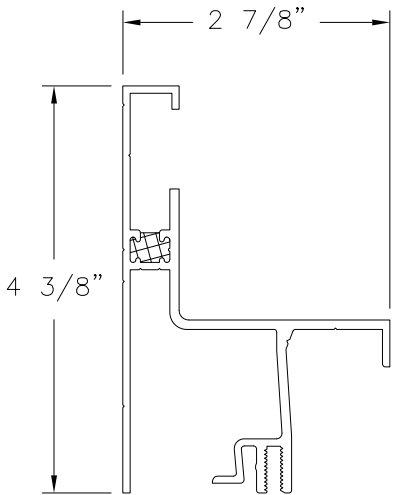


MUNTIN ATTACHMENT DETAIL



BOX MUNTIN ASSEMBLY
ALUMINUM 6063-T6 .078" THICK

MULL JAMB ASSEMBLY
ALUMINUM 6063-T6 .125" THICK



SKYLIGHT FRAME
ALUMINUM 6063-T6 .076" THICK

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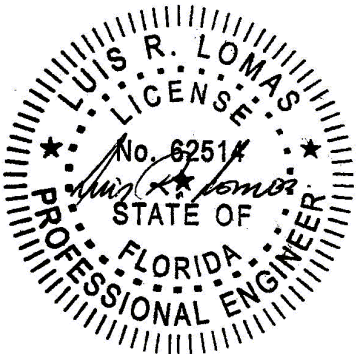
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