

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED NAME	09/19/17	R.L.
B	REVISED PER NEW REQUIREMENTS	11/05/2020	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING, 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. 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 FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
8. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
9. FRAME MATERIAL: EXTRUDED ALUMINUM 6063–T6.
10. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 3 FOR GLASS DETAILS.
11. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
12. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
13. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING INTO METAL STRUCTURE USE #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.
15. ALL FASTENERS TO BE CORROSION RESISTANT.

16. 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 2,000 PSI.
 - C. MASONRY: GROUT/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
 - D. METAL STRUCTURE: STEEL 18GA (.048”) FY=33KSI/FU=52KSI OR ALUMINUM 6063–T6 FU=30KSI .075” THICK MINIMUM

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

SERIES SI6500
ALUMINUM BI-PARTING SKYLIGHT IMPACT
NOTES

DRAWN:
V.L.

DWG NO.
08-03085

REV
B

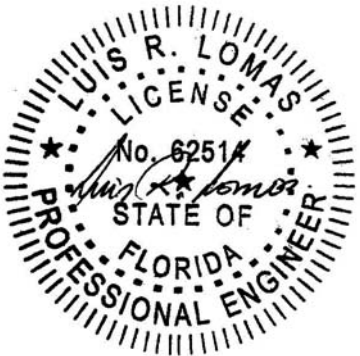
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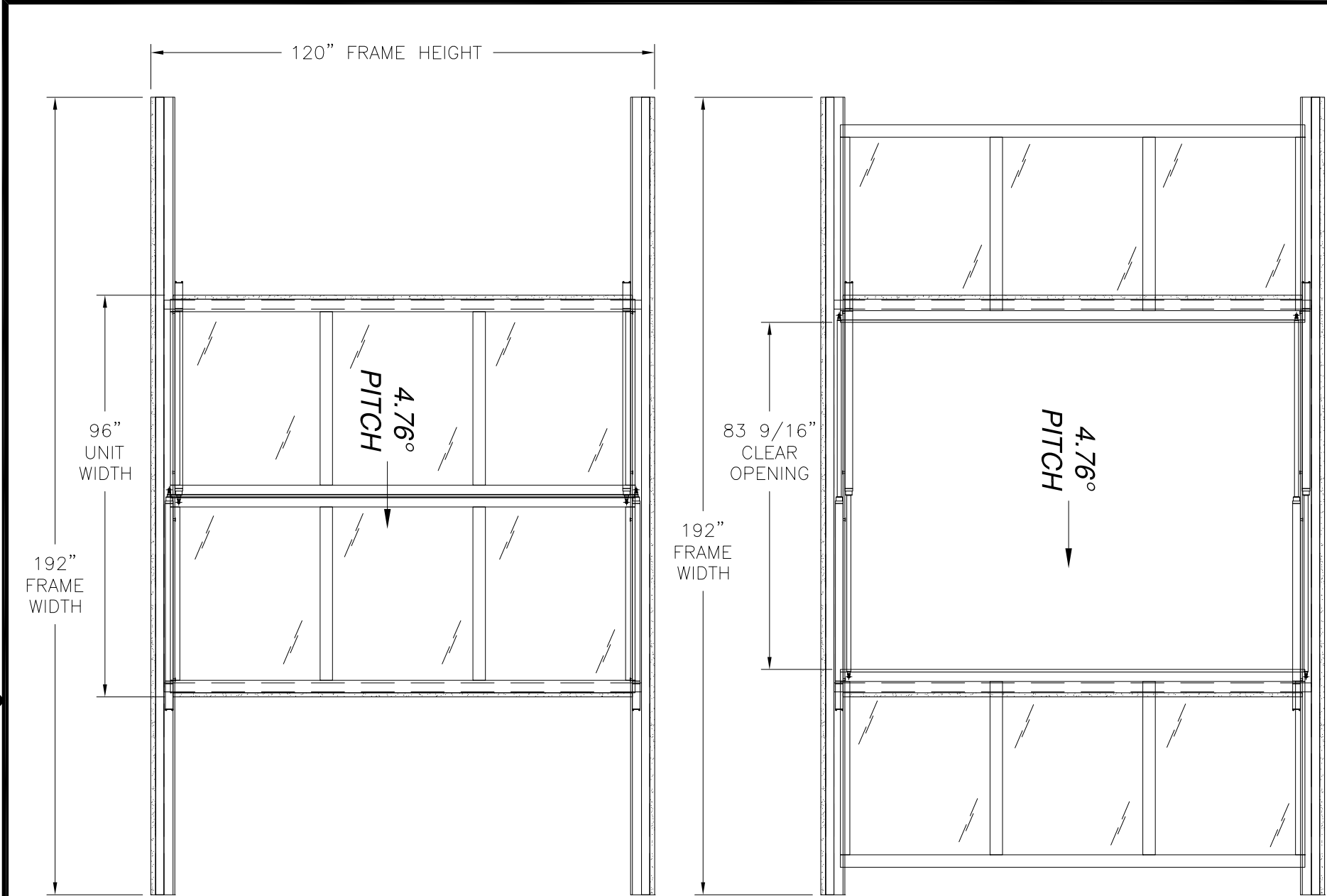
SHEET 1 OF 7

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

SIGNED: 11/20/2020



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



CLOSED POSITION

OPEN POSITION

SERIES SI5200 ALUMINUM BI-PARTING SKYLIGHT
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±45.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4

- NOTES:
1. MAXIMUM PANEL SIZE: 111 7/8" X 47"
 2. MAXIMUM D.L.O.: 33 7/8" X 41 7/8"

HARDWARE SCHEDULE	
A.	MOTORIZED SERAPID LINEAR ACTUATORS AT JAMBS
B.	(6) WHEEL ROLLER ASSEMBLIES AT EACH END AND MIDSPAN OF STILES
C.	ALUMINUM ANGLE REINFORCEMENT AT ACTIVE MEETING RAILS

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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		60.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
60.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
66.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
72.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
78.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
84.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
90.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-	-
96.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-	-
102.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-	-	-	-
108.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-	-	-	-
114.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	-	-	-	-	-	-
120.0	45.0	45.0	45.0	45.0	45.0	45.0	39.9	39.9	-	-	-	-	-	-
126.0	45.0	45.0	45.0	45.0	39.6	39.6	-	-	-	-	-	-	-	-
132.0	45.0	45.0	40.8	40.8	34.3	34.3	-	-	-	-	-	-	-	-
138.0	44.2	44.2	35.6	35.6	29.9	29.9	-	-	-	-	-	-	-	-
144.0	38.9	38.9	31.3	31.3	26.3	26.3	-	-	-	-	-	-	-	-
150.0	34.4	34.4	27.7	27.7	-	-	-	-	-	-	-	-	-	-
156.0	30.5	30.5	24.6	24.6	-	-	-	-	-	-	-	-	-	-

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PINE GROVE, PA 17963

SERIES SI6500
ALUMINUM BI-PARTING SKYLIGHT IMPACT
ELEVATIONS

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V.L.

DWG NO.
08-03085

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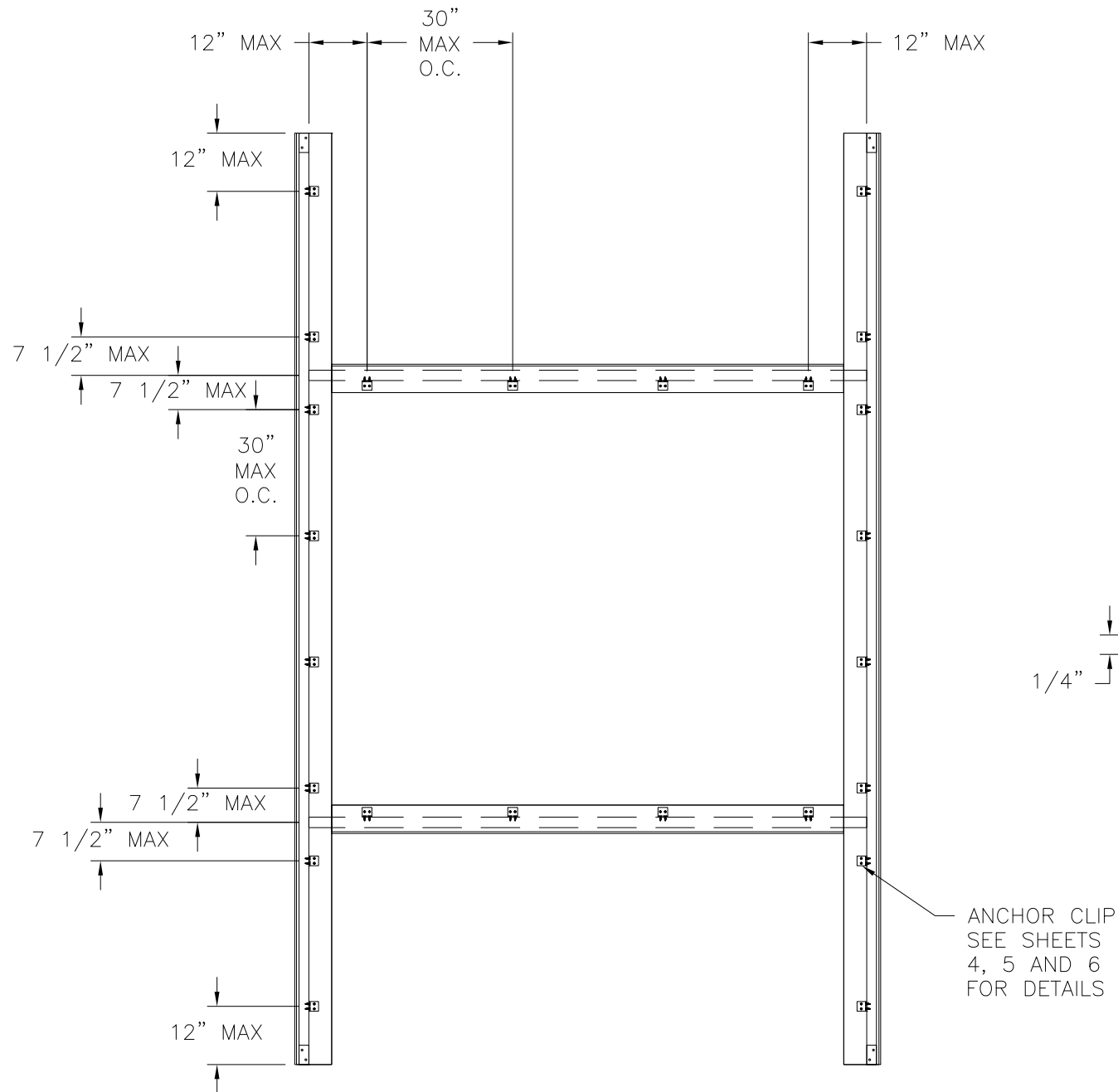
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2 OF 7

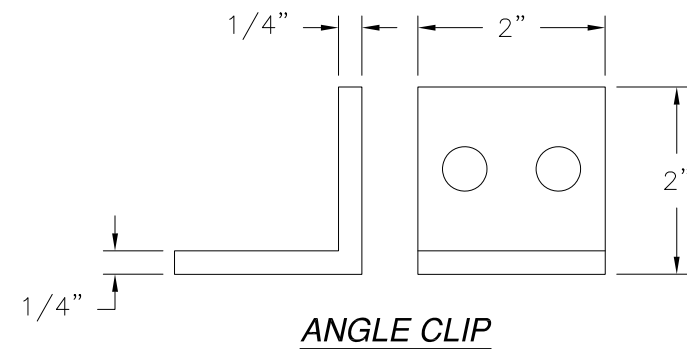
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434-688-0609 rllomas@lrlomaspe.com



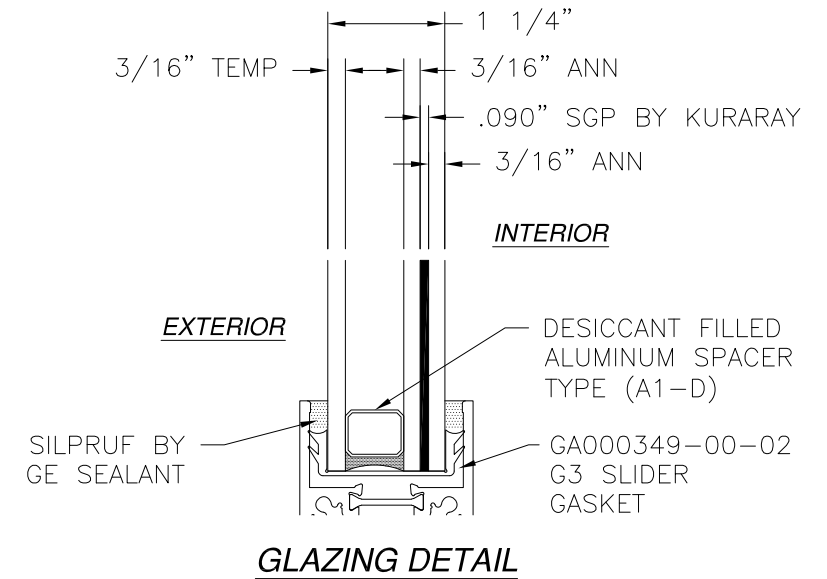
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SERIES SI5200 ALUMINUM BI-PARTING SKYLIGHT
ANCHOR LAYOUT



ANGLE CLIP



GLAZING DETAIL

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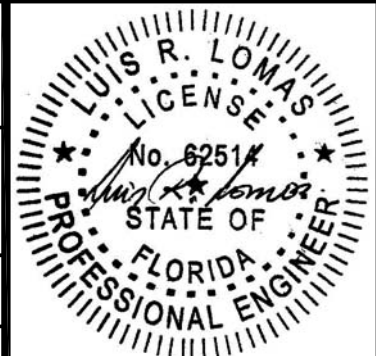
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ALUMINUM BI-PARTING SKYLIGHT IMPACT
ANCHOR LAYOUT, COMPONENTS AND GLAZING DETAIL

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SCALE NTS	DATE 03/15/17	SHEET 3 OF 7

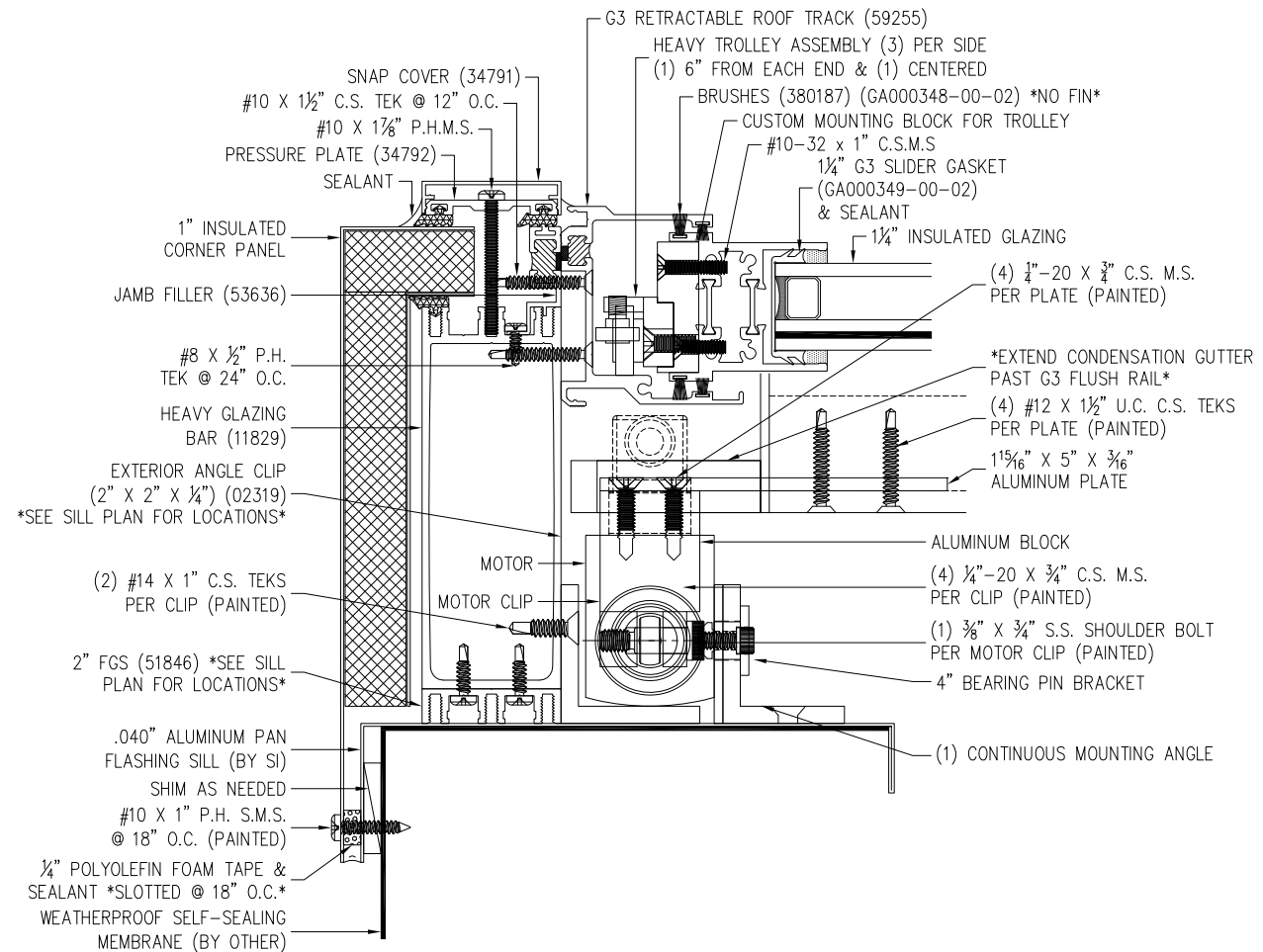
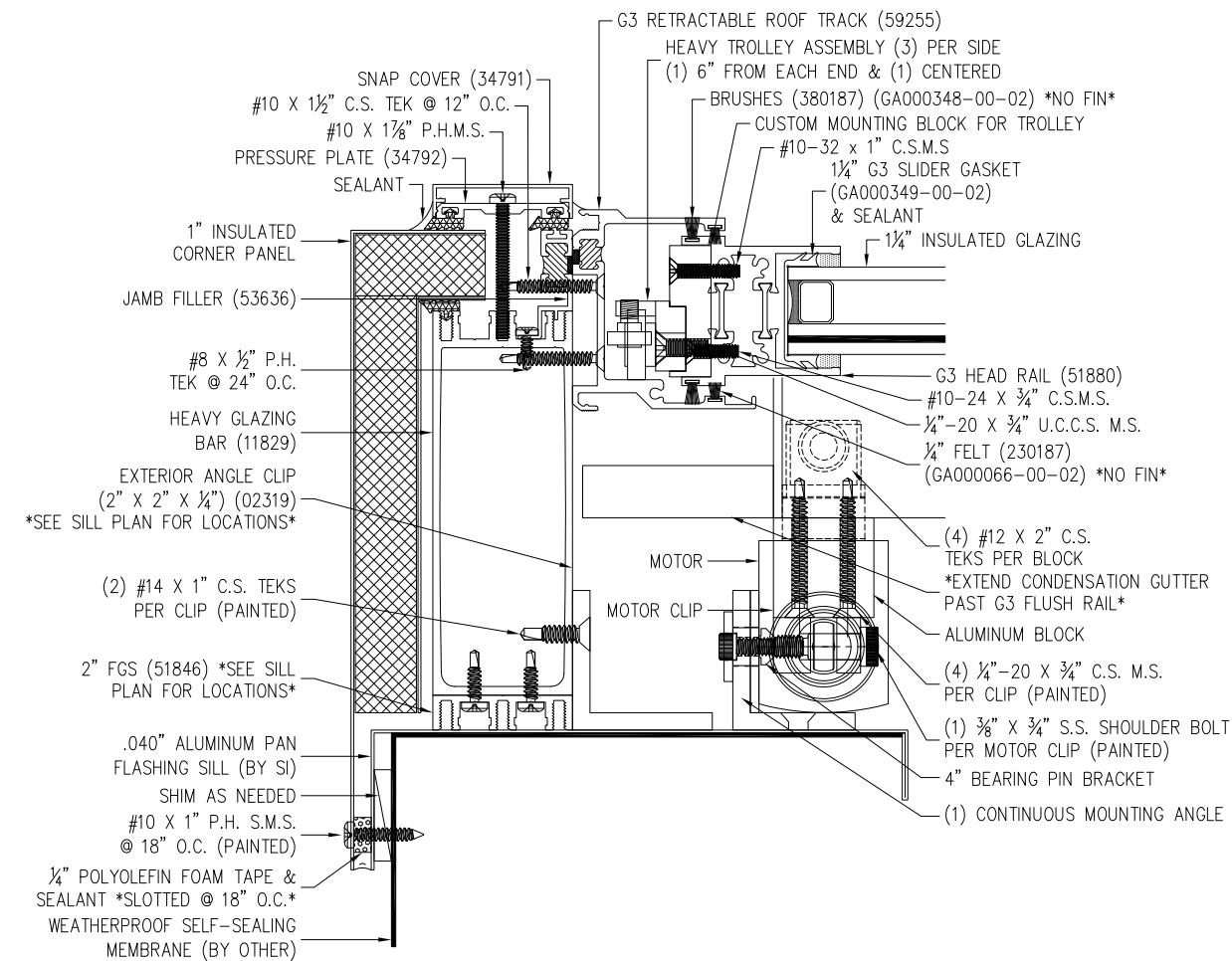
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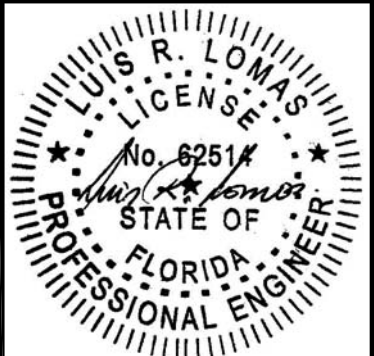
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MOTOR INSTALLATION

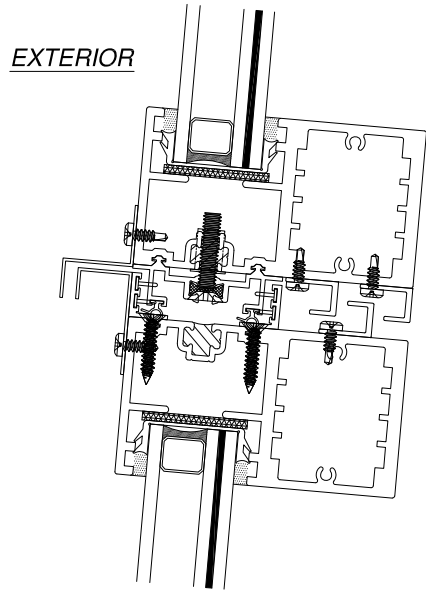
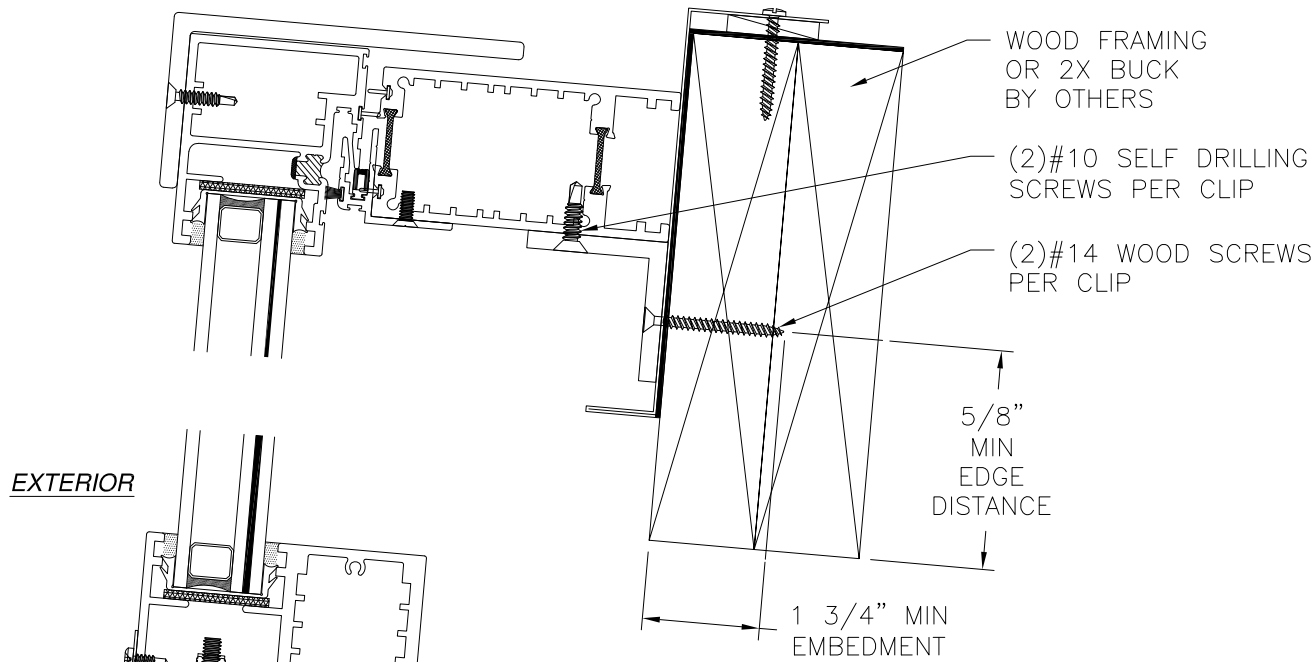
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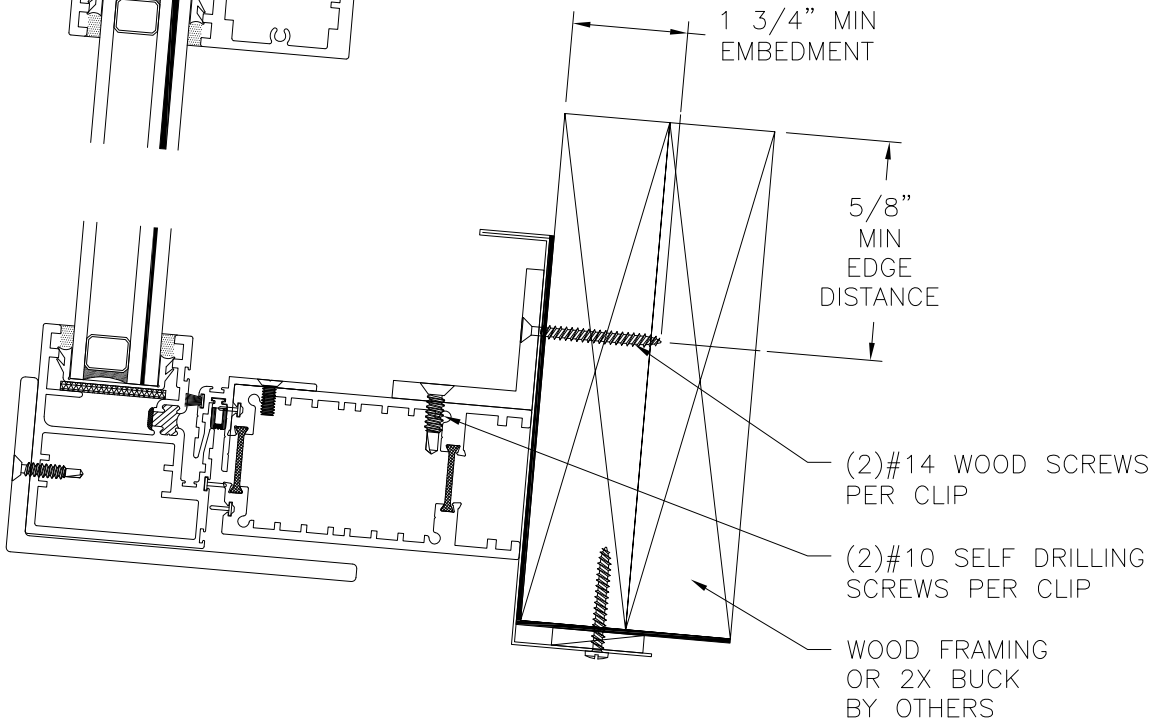


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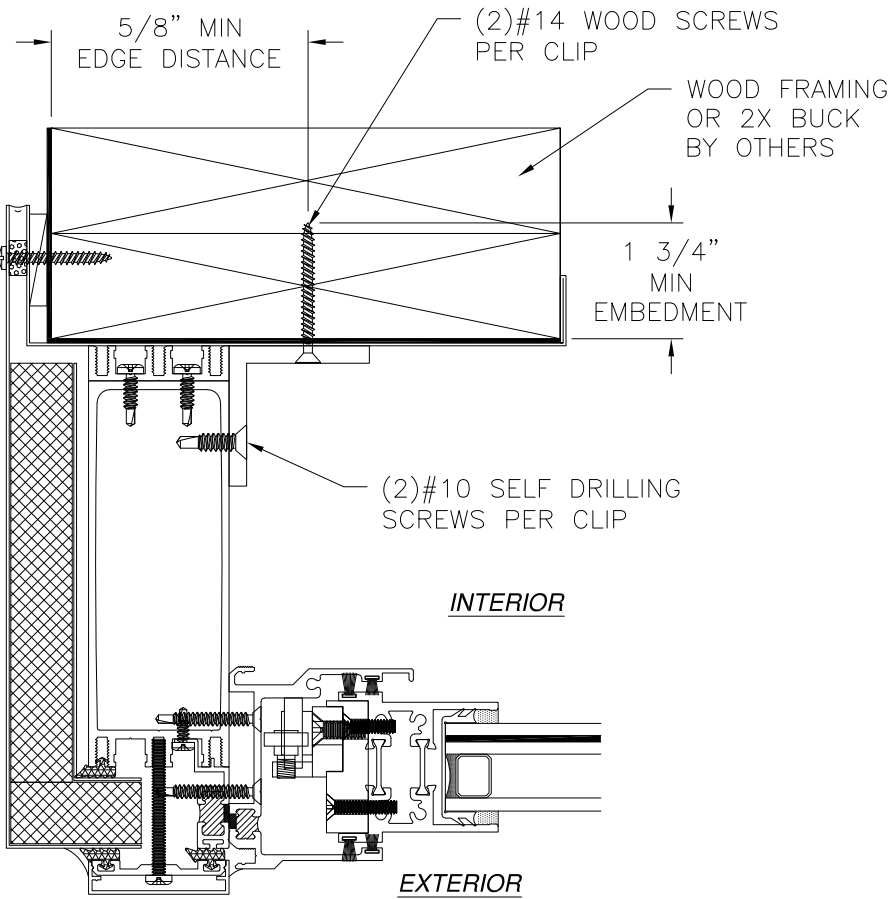


INTERIOR



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

SOLAR INNOVATIONS, INC.

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SERIES SI6500

ALUMINUM BI-PARTING SKYLIGHT IMPACT
INSTALLATION DETAILS

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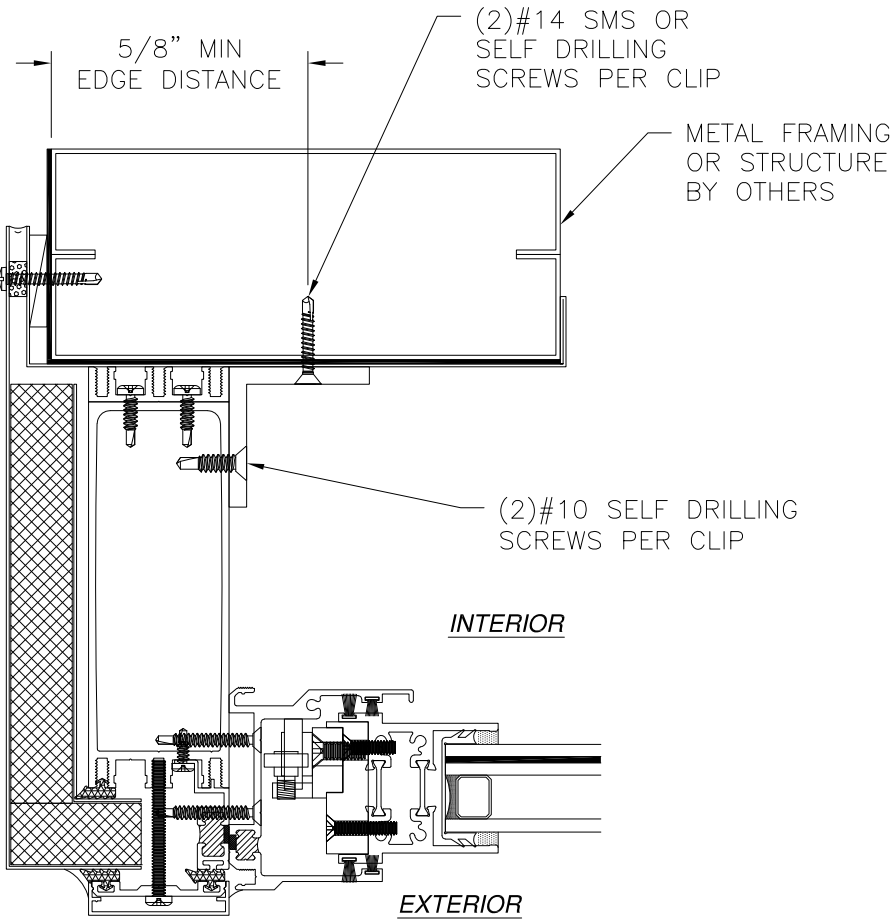
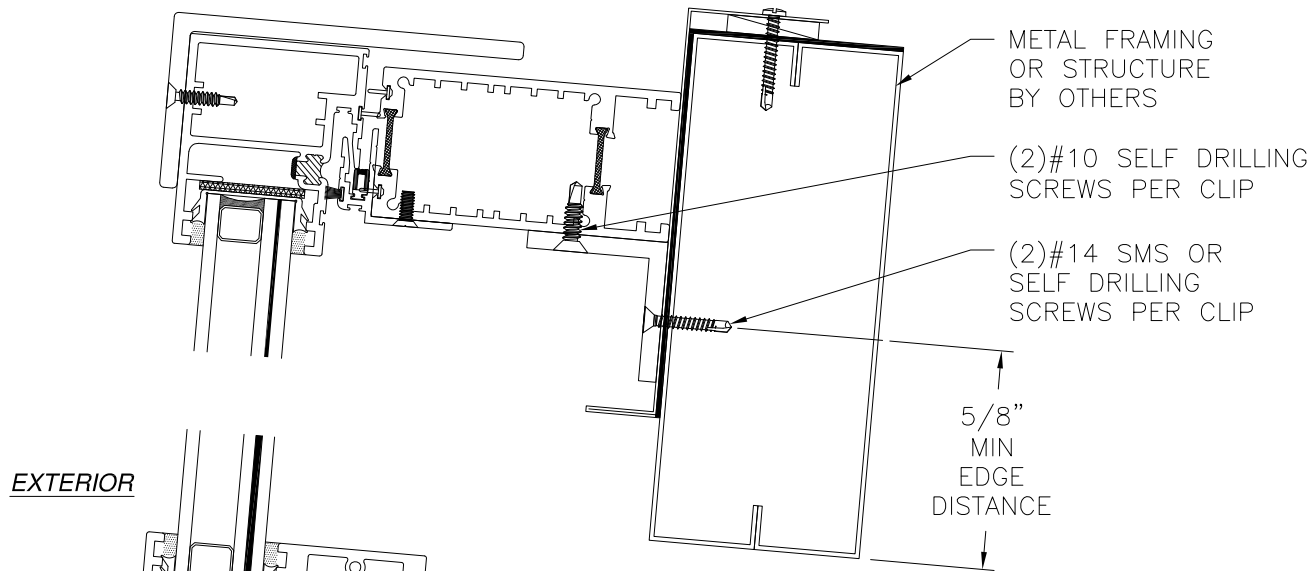
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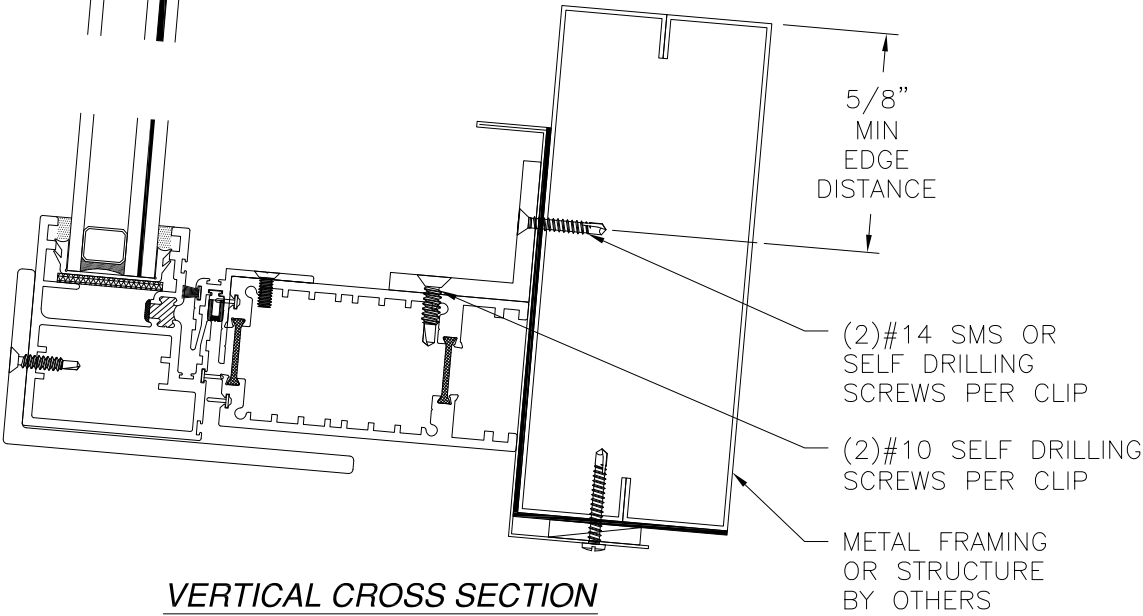


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JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION

- NOTES:
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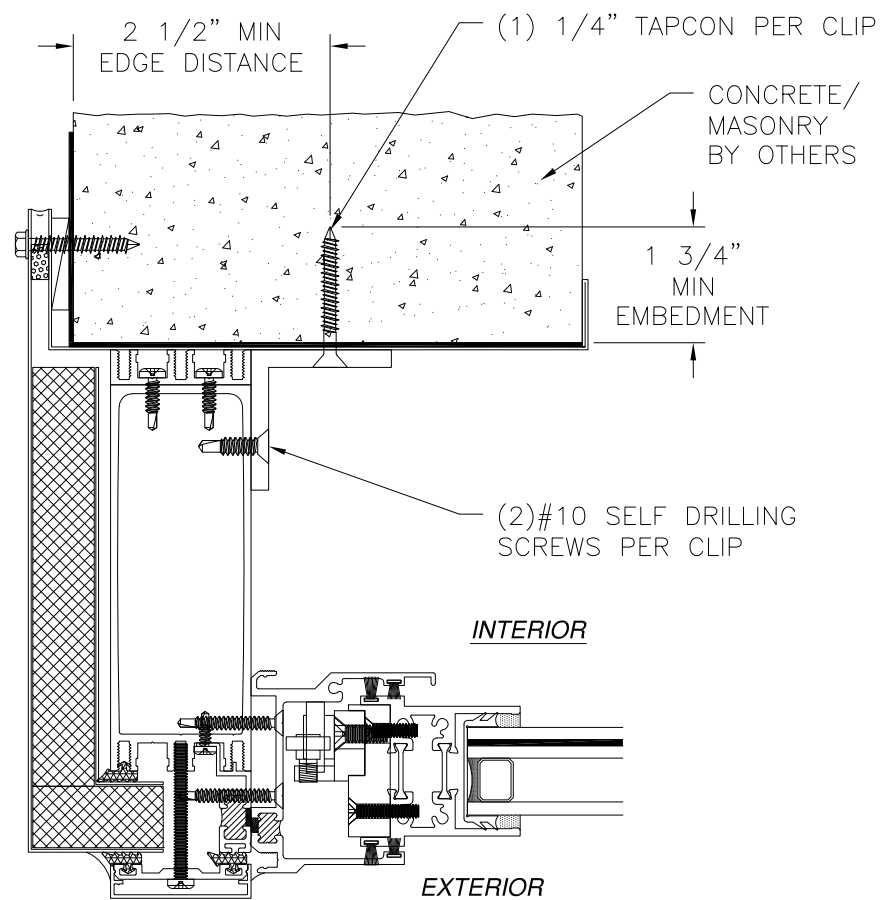
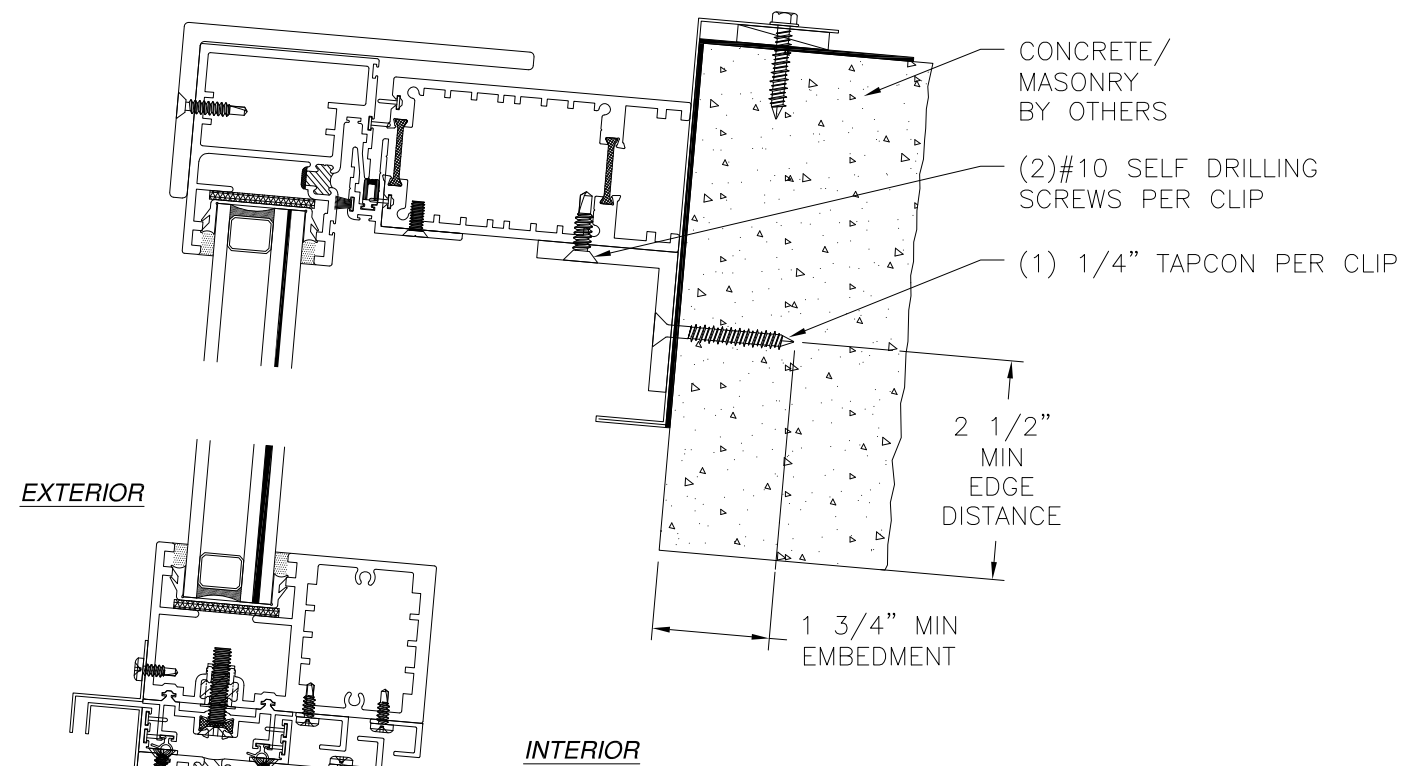
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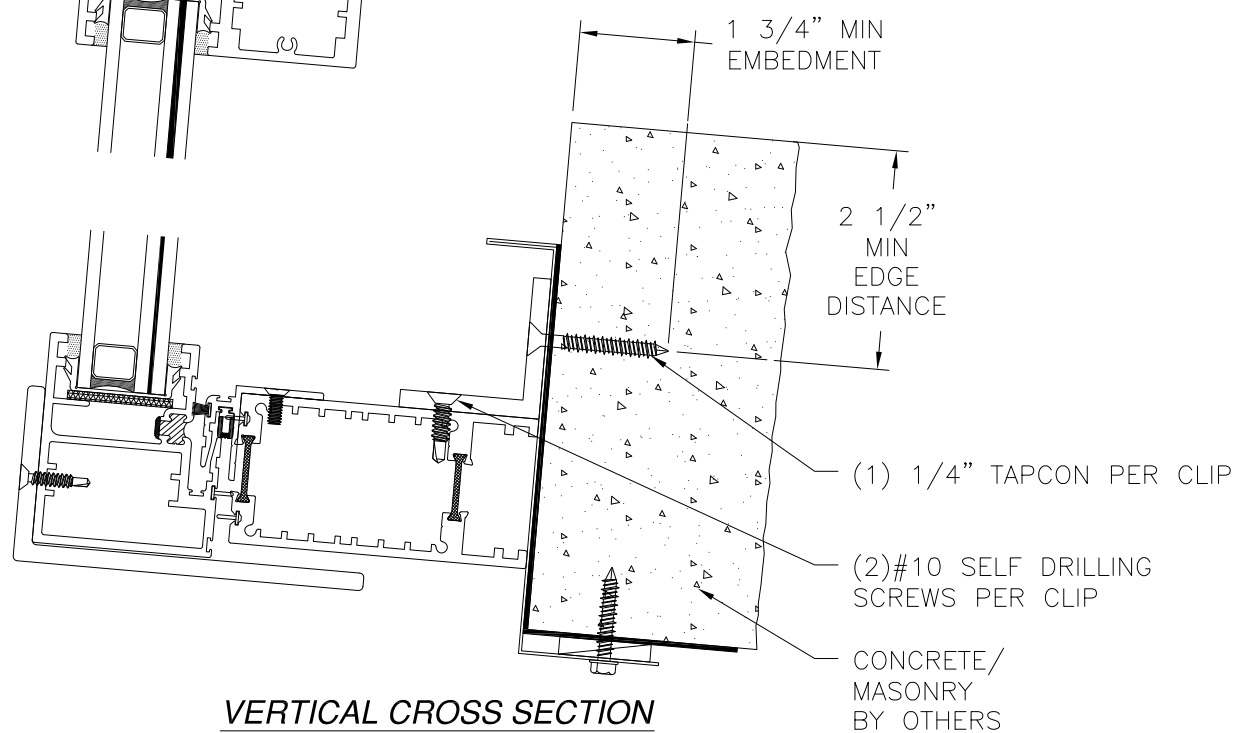


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JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

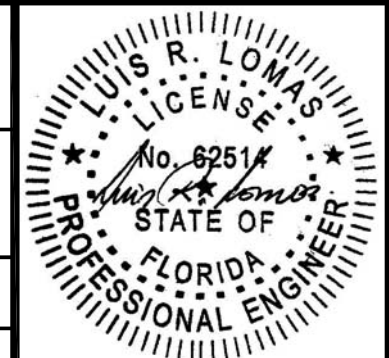


VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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