

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED VERTICAL CROSS SECTION	06/13/17	R.L.
B	REVISED NAME	09/19/17	R.L.
C	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 AND METAL FRAMING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. OPENING DESIGN IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
4. BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
5. 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 1/4”.
6. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
7. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
8. FRAME MATERIAL: EXTRUDED RIGID ALUMINUM 6063–T6.
9. UNITS MUST BE GLAZED PER ASTM E1300.
10. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
11. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE 1/4” LAG SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4” MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4” TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4” MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1” MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
13. FOR ANCHORING THROUGH FRAME 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.
14. ALL FASTENERS TO BE CORROSION RESISTANT.

15. 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: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
B. METAL STRUCTURE: STEEL 18GA (.048”), 33KSI OR ALUMINUM 6063–T5 .125” THICK MINIMUM
16. ELECTRICAL COMPONENTS ARE NOT PART OF THIS APPROVAL. CARE SHOULD BE TAKEN WHEN SKYLIGHT IS IN MOTION SO THAT PERSONAL INJURY OR DAMAGE TO THIS PRODUCT DOES NOT OCCUR.

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

SERIES SI6400 G2 90° ALUMINUM
(2) LITE OPERABLE SKYLIGHT NON-IMPACT
NOTES

DRAWN:
N.G.

DWG NO.
08-02919

REV
C

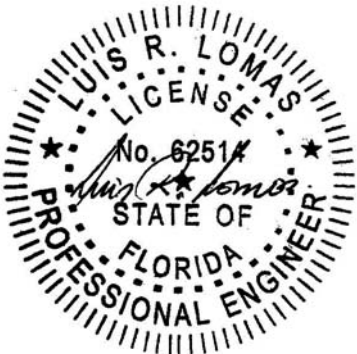
SCALE NTS

DATE 06/16/16

SHEET 1 OF 11

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

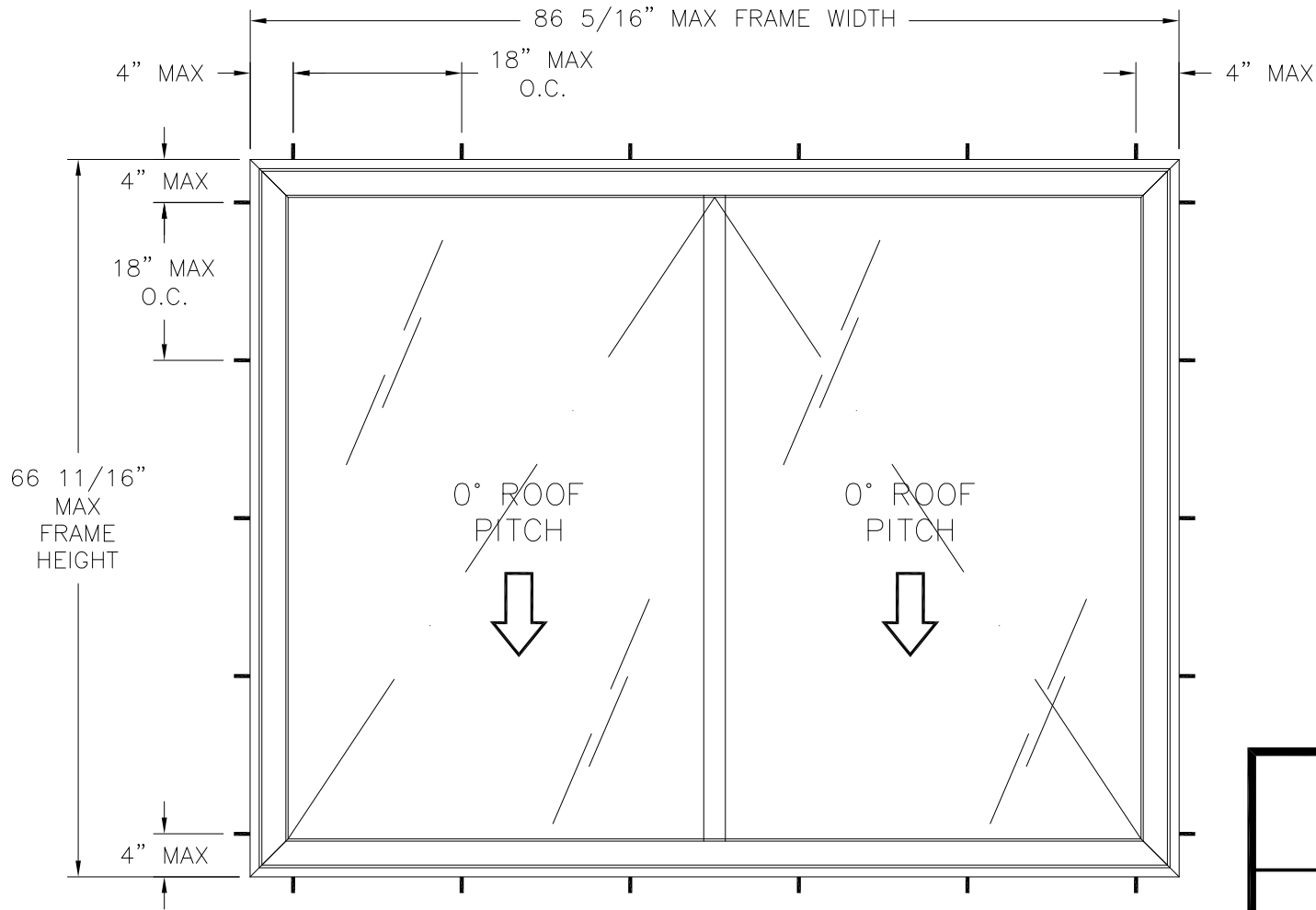
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Luis R. Lomas P.E.
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Chart #1																
Maximum Design pressure (psf)																
Panel Height (in)	Single Panel Width (in)															
	24.0		30.0		36.0		42.0		43.16		48.0		54.0		60.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
24.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	79.9	79.9
30.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	79.9	79.9	71.1	71.1	64.0	64.0
36.0	80.0	80.0	80.0	80.0	80.0	80.0	76.1	76.1	74.1	74.1	66.6	66.6	59.2	59.2	53.3	53.3
42.0	80.0	80.0	80.0	80.0	76.1	76.1	65.3	65.3	63.5	63.5	57.1	57.1	50.8	50.8	45.7	45.7
48.0	80.0	80.0	78.7	78.7	66.6	66.6	57.1	57.1	55.6	55.6	50.0	50.0	44.4	44.4	-	-
54.0	77.3	77.3	66.6	66.6	59.2	59.2	50.8	50.8	49.4	49.4	44.4	44.4	-	-	-	-
60.0	67.6	67.6	57.7	57.7	51.5	51.5	45.7	45.7	44.5	44.5	-	-	-	-	-	-
66.69	59.3	59.3	50.2	50.2	44.4	44.4	40.6	40.6	40.0	40.0	-	-	-	-	-	-
72.0	50.2	50.2	41.2	41.2	35.4	35.4	-	-	-	-	-	-	-	-	-	-
78.0	39.2	39.2	32.1	32.1	27.4	27.4	-	-	-	-	-	-	-	-	-	-
84.0	31.2	31.2	25.5	25.5	-	-	-	-	-	-	-	-	-	-	-	-
90.0	25.3	25.3	20.6	20.6	-	-	-	-	-	-	-	-	-	-	-	-
96.0	20.8	20.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
102.0	17.3	17.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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NOTES:
1. MAXIMUM D.L.O.: 38 7/8" X 60"

SERIES SI5200 G2 90° ALUMINUM (2) LITE OPERABLE SKYLIGHT
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±40.0PSF	NONE

SEE CHART #1, THIS SHEET

HARDWARE SCHEDULE	
A.	MOTORIZED SERAPID LINEAR ACTUATORS AT JAMBS
B.	36" BUTT-HINGE AT EACH END OF TOP RAIL/HEAD
C.	ALUMINUM INSERT REINFORCEMENT ON VENT PERIMETER

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

SERIES SI6400 G2 90° ALUMINUM
(2) LITE OPERABLE SKYLIGHT NON-IMPACT
ELEVATION AND DESIGN PRESSURE CHART

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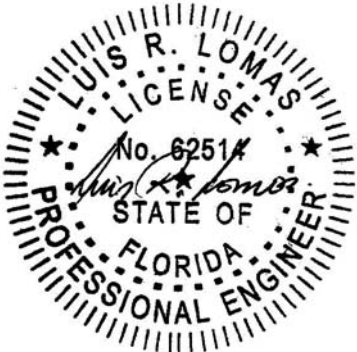
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SHEET 2 OF 11

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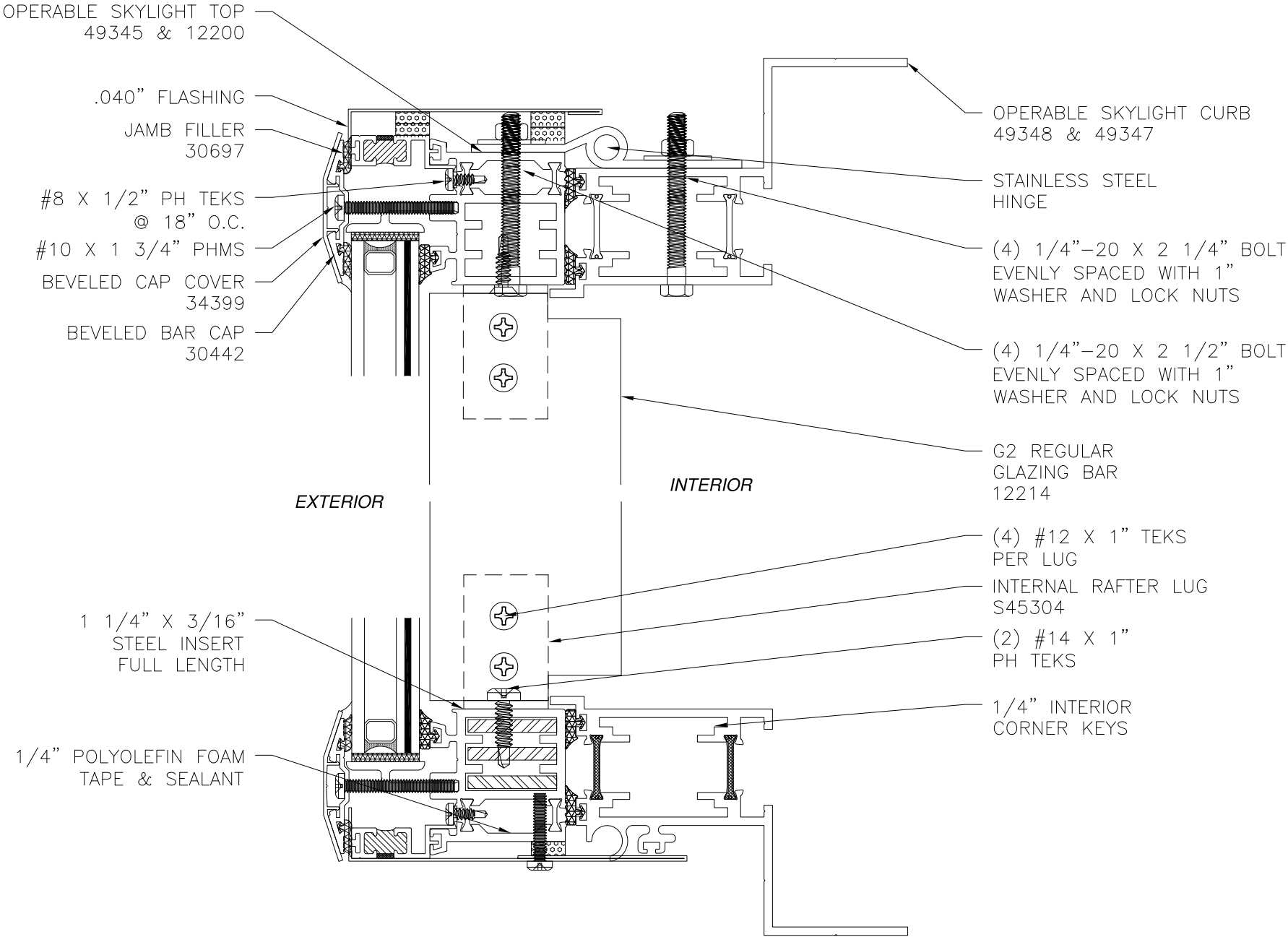
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FOR INSTALLATION DETAILS REFER TO SHEETS 6 - 9

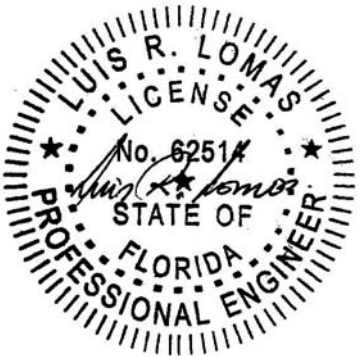
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VERTICAL SECTION

SIGNED: 11/18/2020

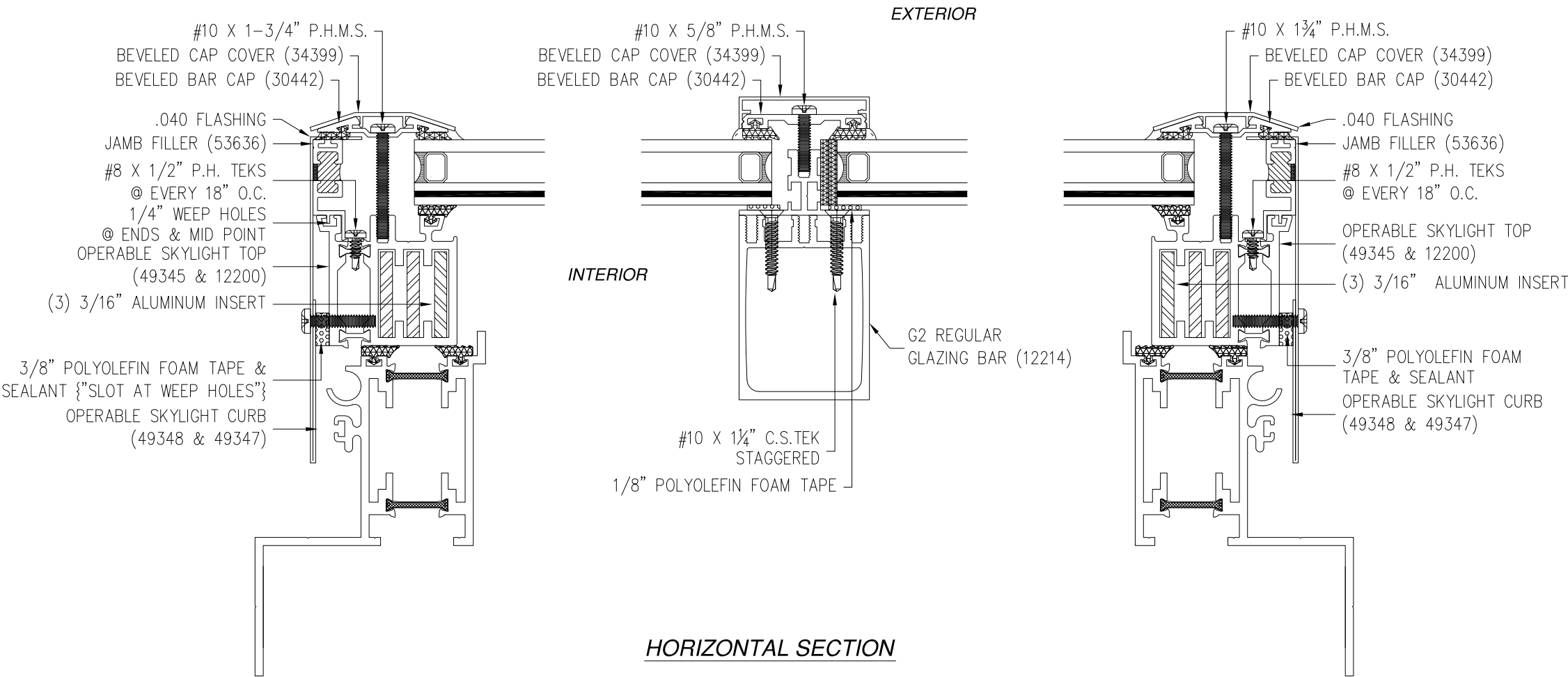
SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI6400 G2 90° ALUMINUM (2) LITE OPERABLE SKYLIGHT NON-IMPACT CROSS SECTIONS		
DRAWN: N.G.	DWG NO. 08-02919	REV C
SCALE NTS	DATE 06/16/16	SHEET 3 OF 11
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@rlomaspe.com		



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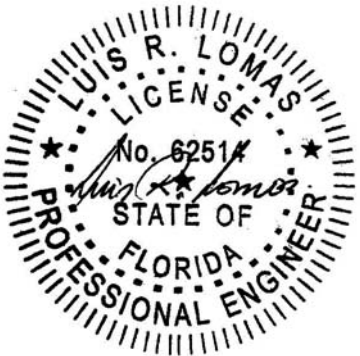
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4 OF 11

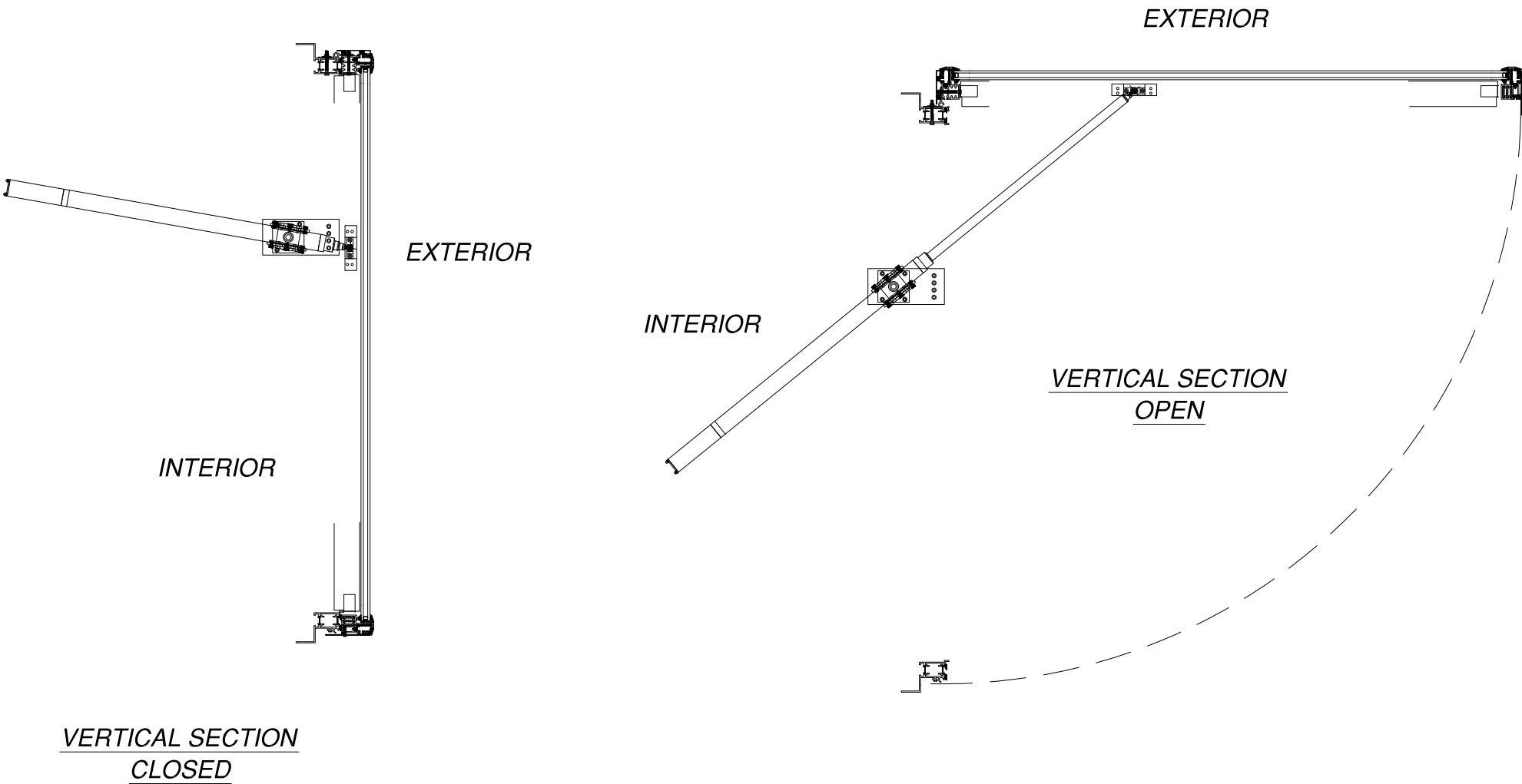
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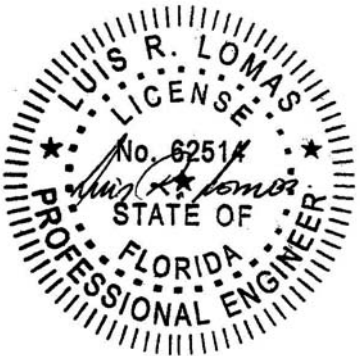
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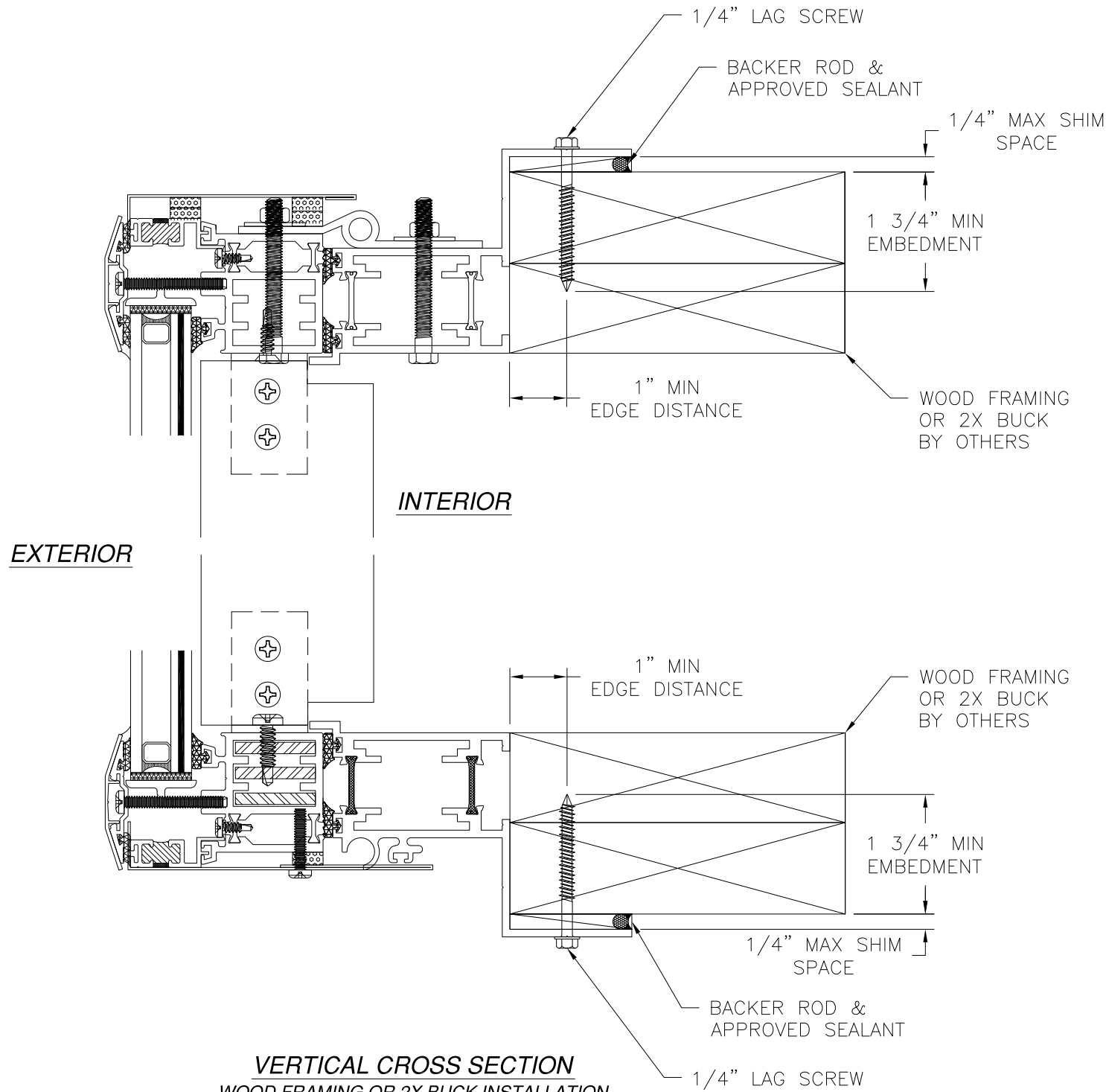
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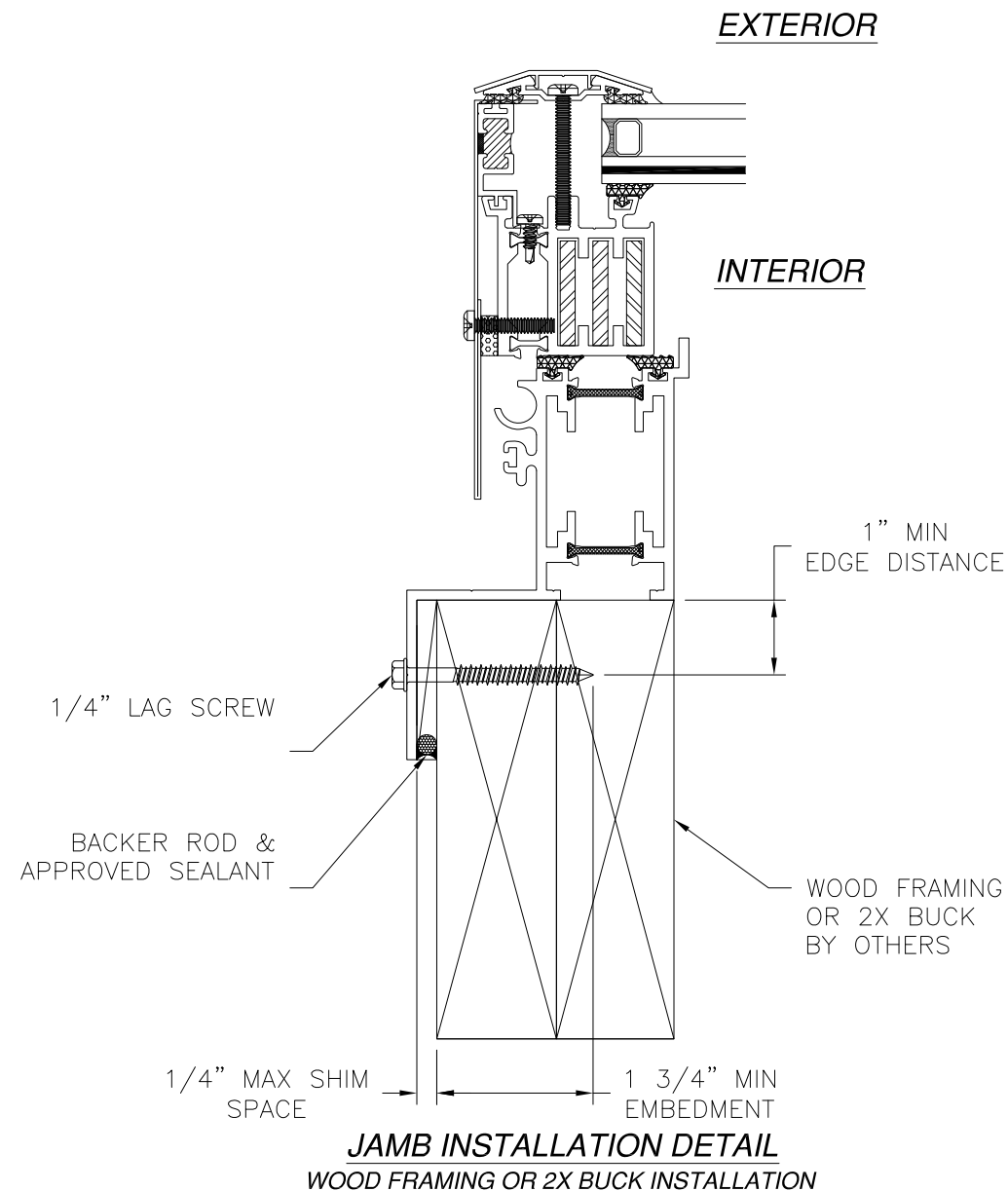


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NOTES:
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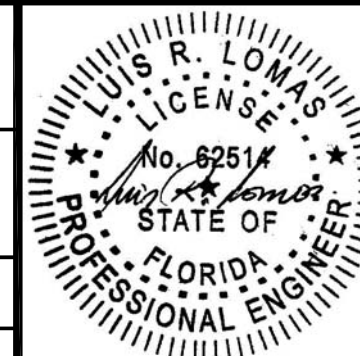
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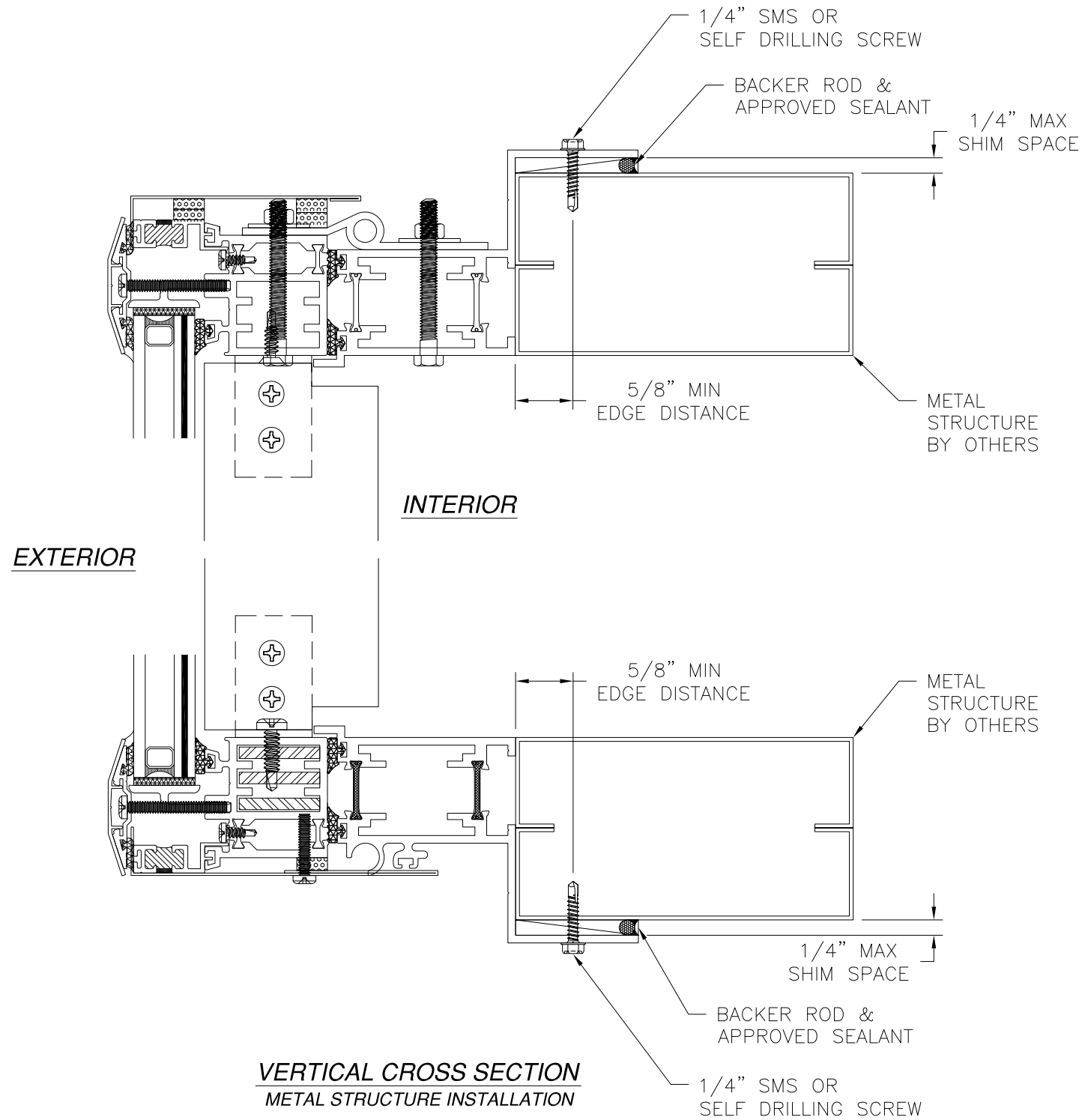
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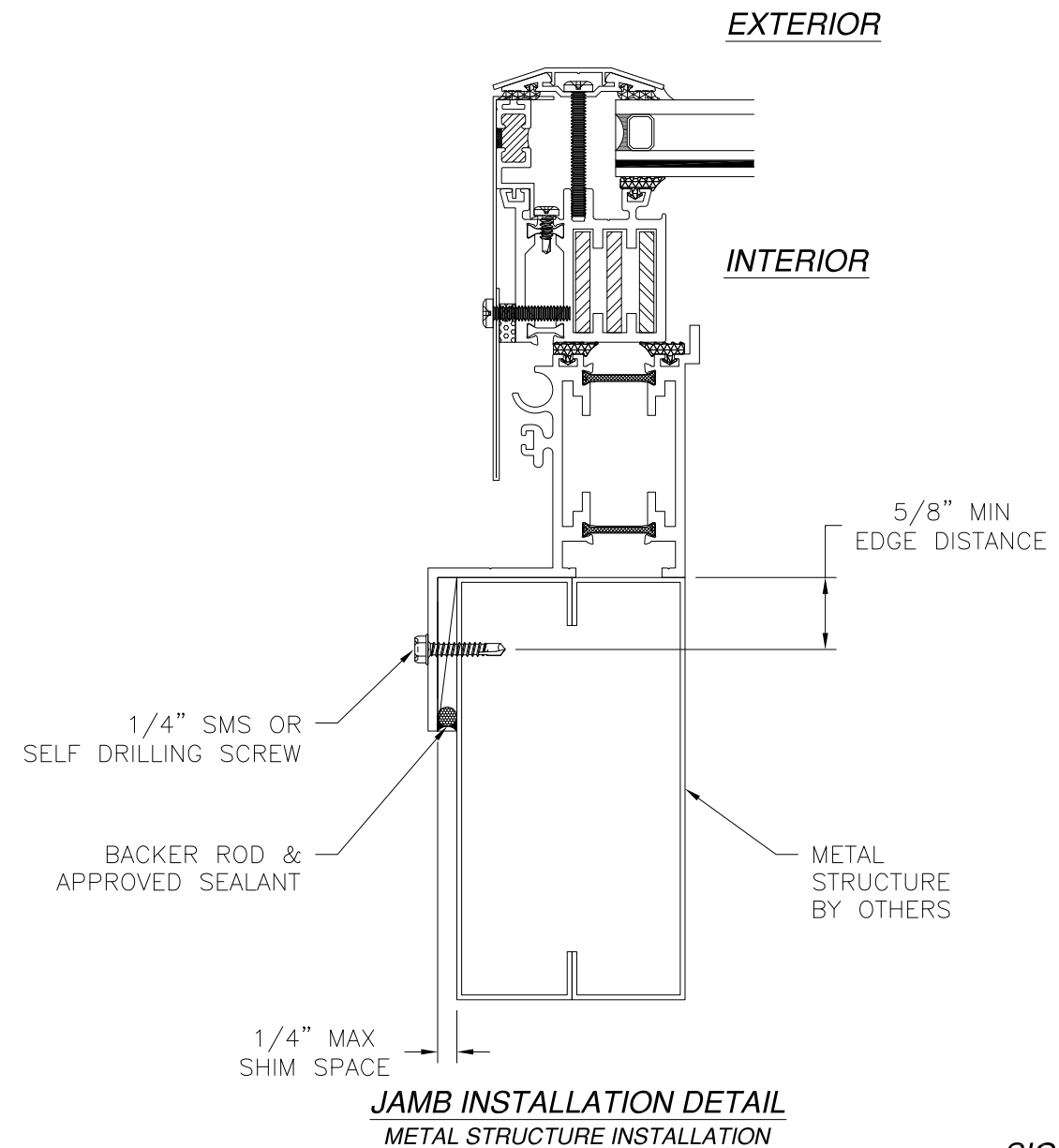


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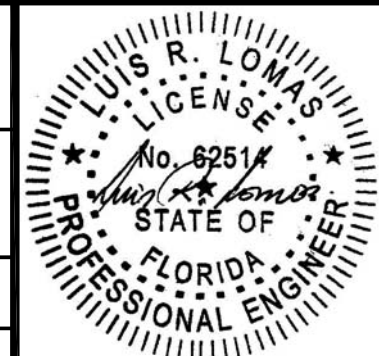
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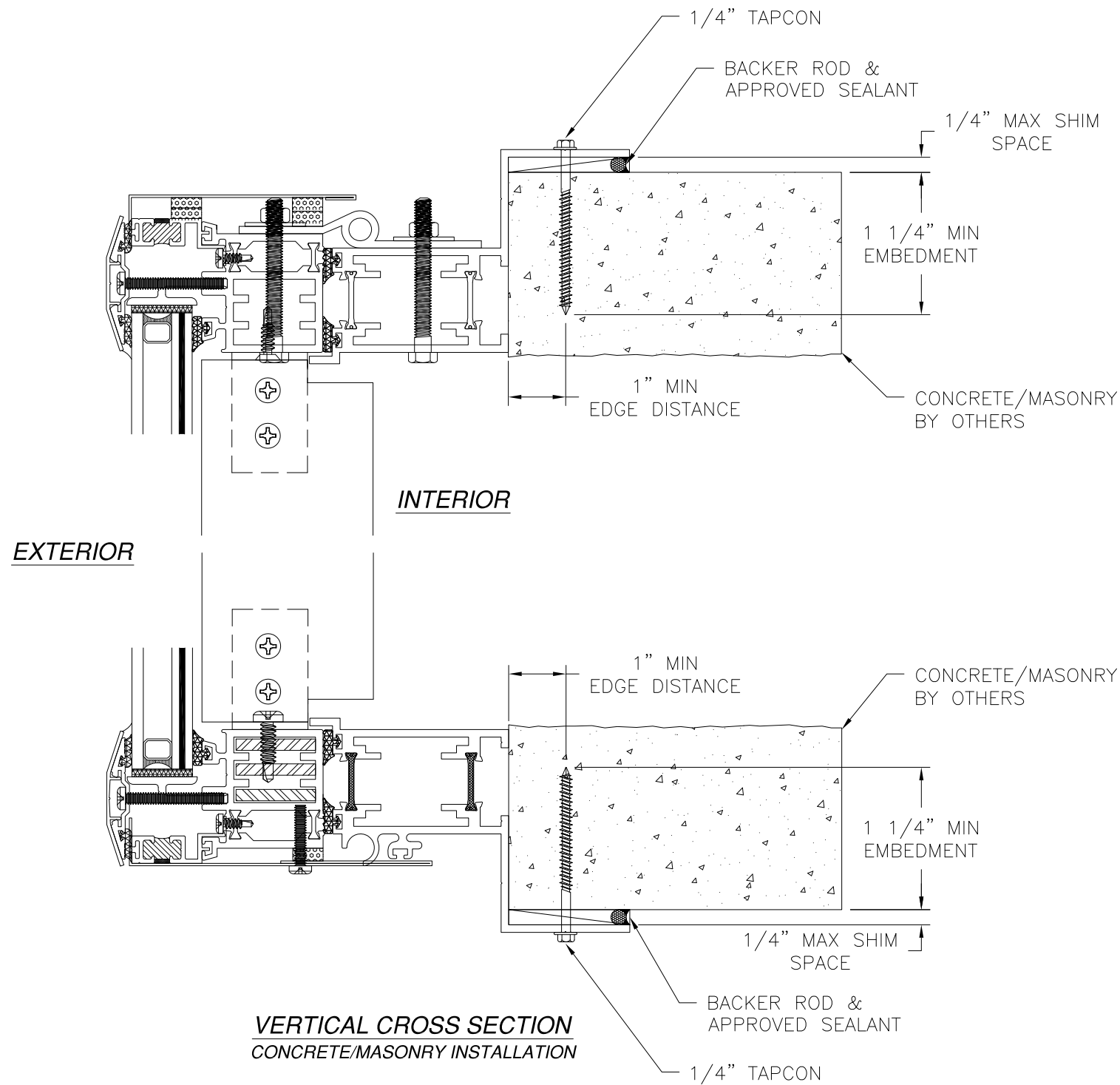


SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI6400 G2 90° ALUMINUM (2) LITE OPERABLE SKYLIGHT NON-IMPACT INSTALLATION DETAILS		
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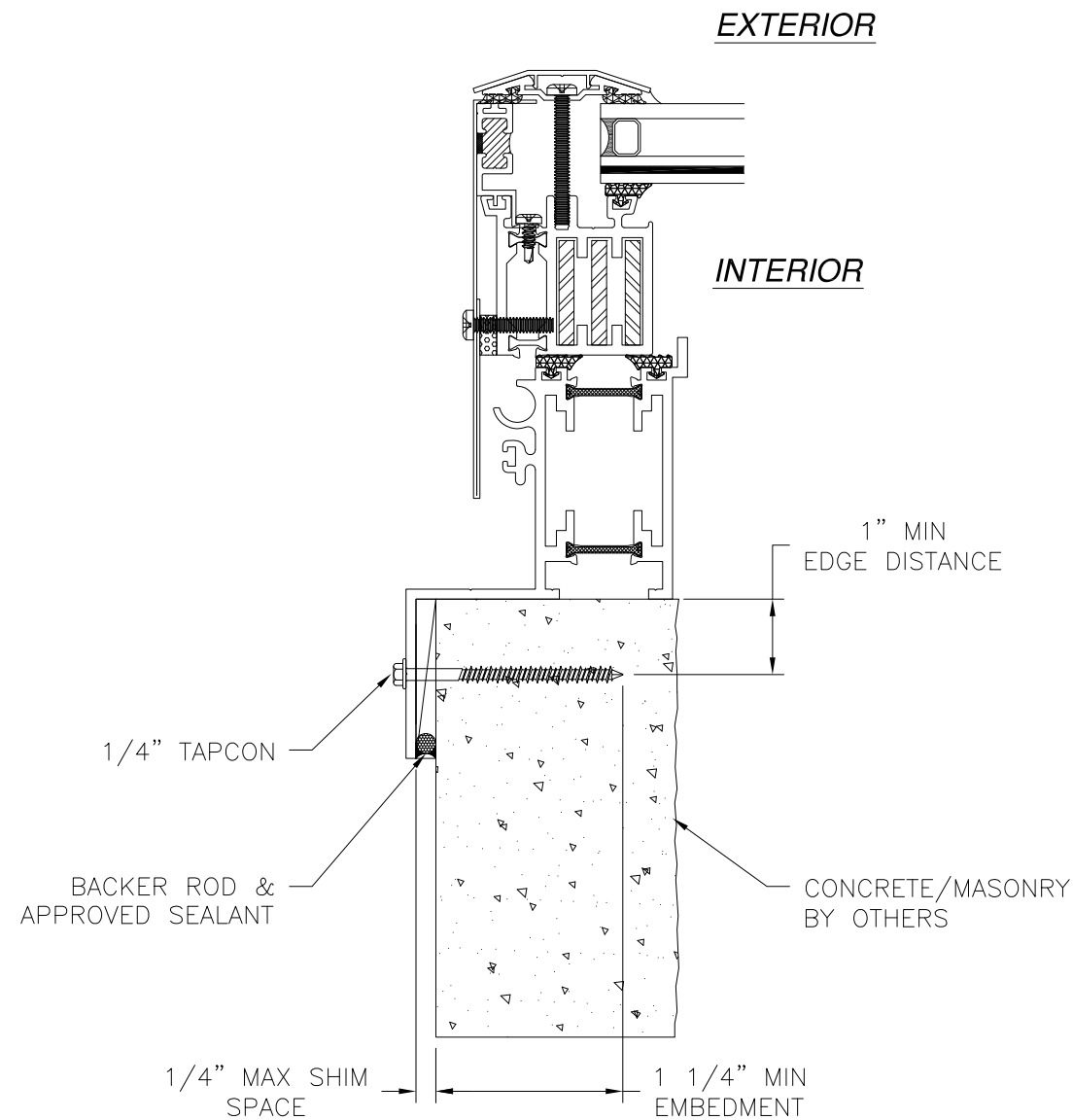
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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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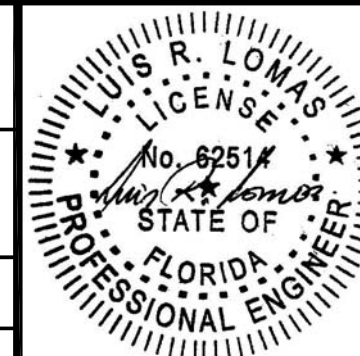
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JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

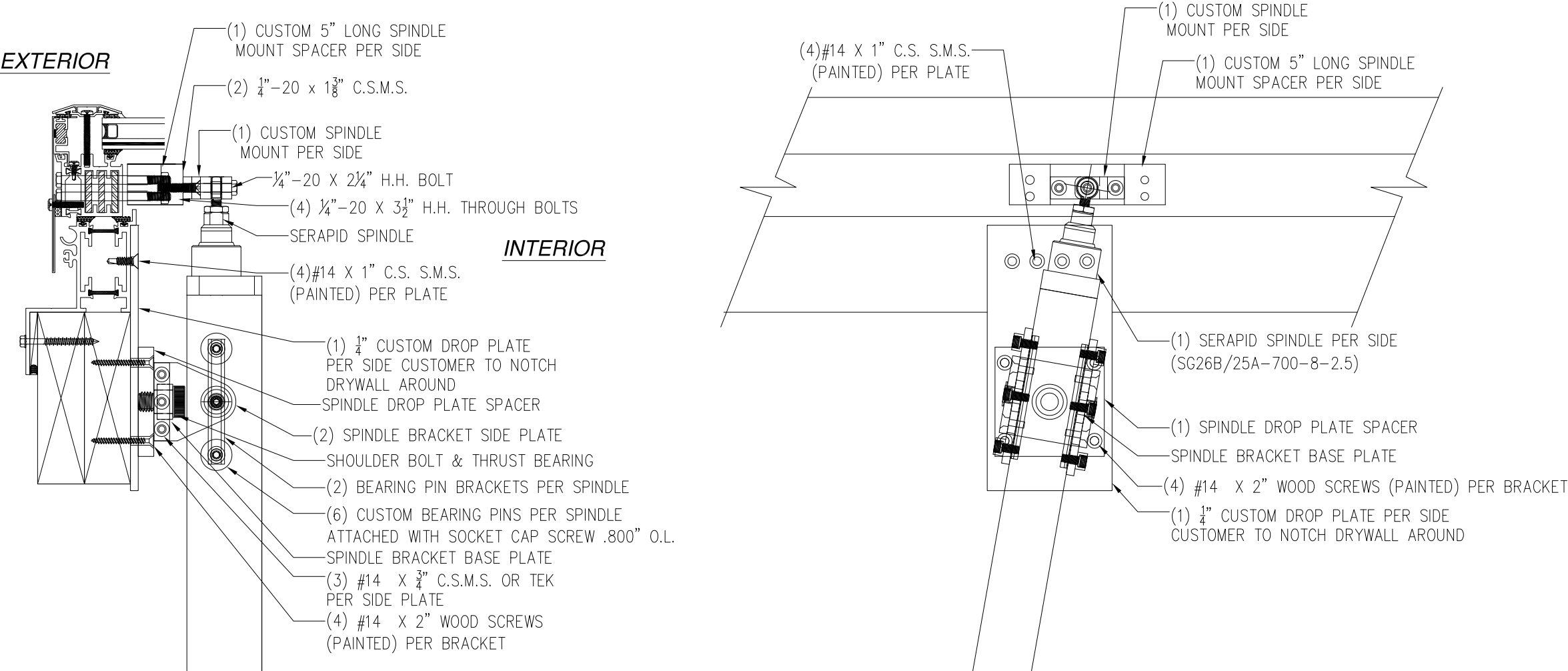
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ACTUATOR INSTALLATION
WOOD FRAMING OR 2X BUCK INSTALLATION

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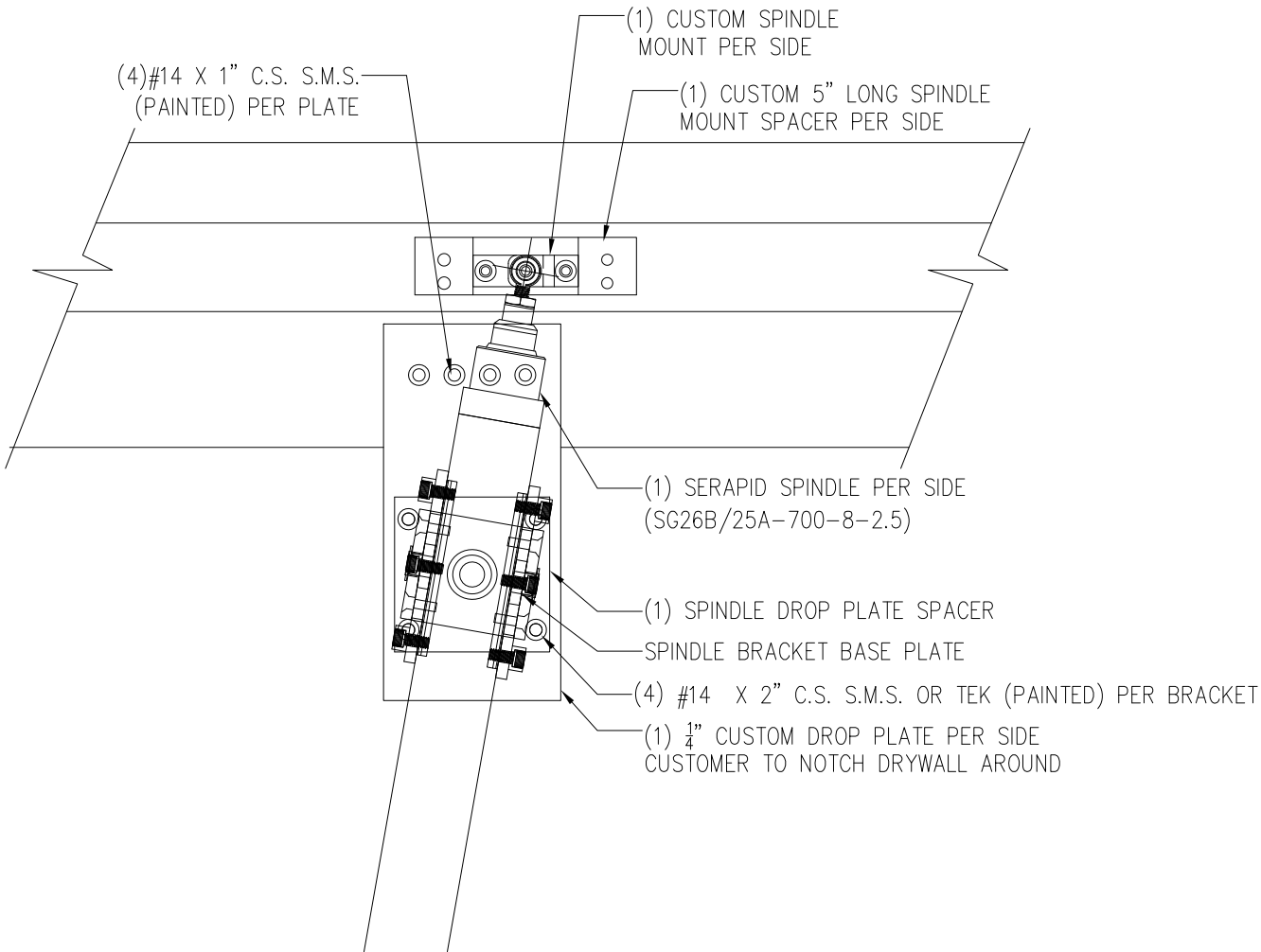
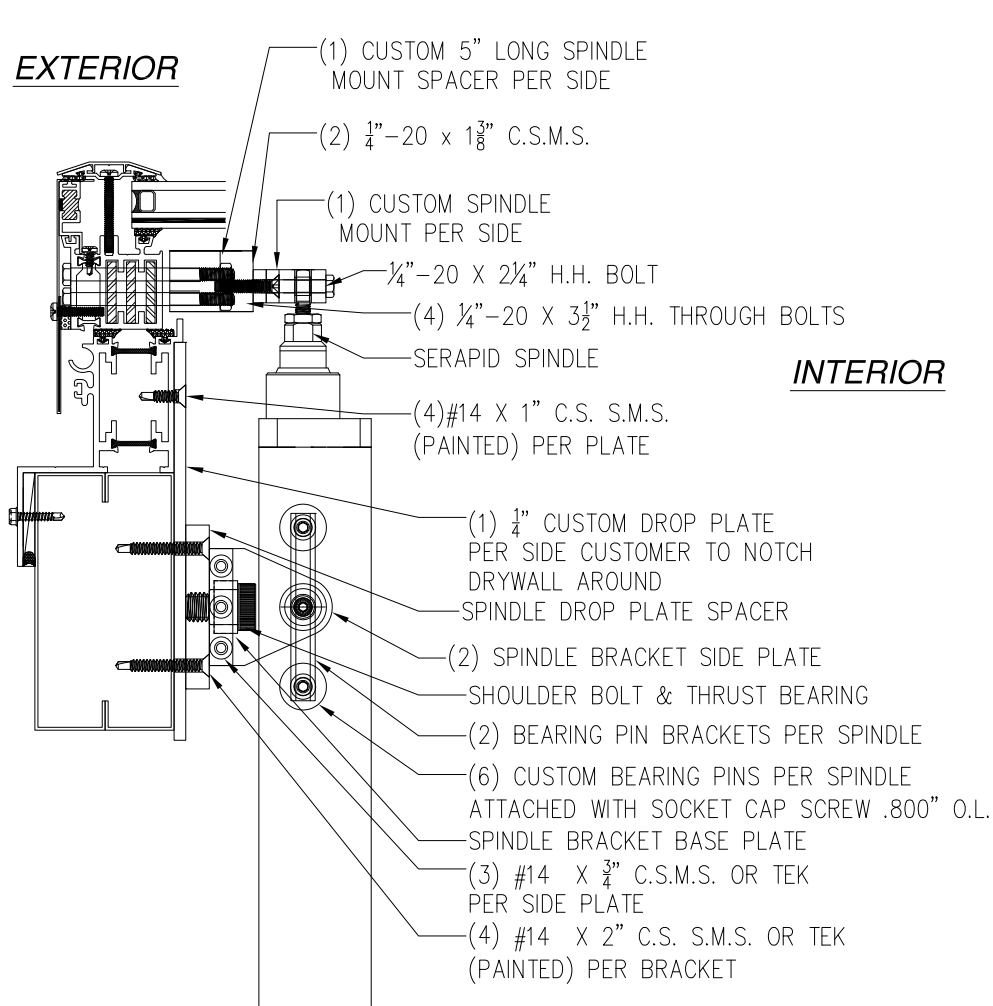
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ACTUATOR INSTALLATION
METAL STRUCTURE INSTALLATION

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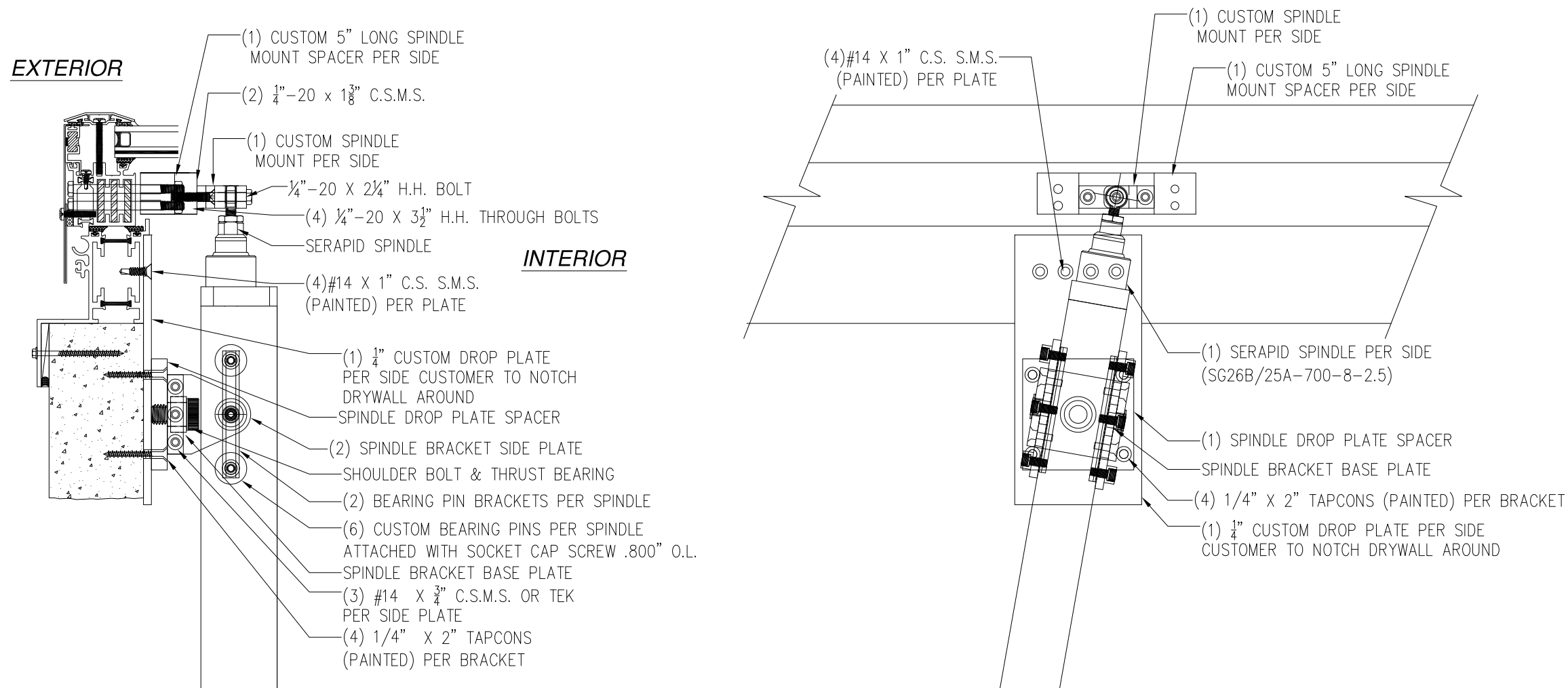
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ACTUATOR INSTALLATION
CONCRETE/MASONRY INSTALLATION

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