

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS	05/16/26	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE.
2. WOOD FRAMING 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: EXTRUDED 6063-T5 ALUMINUM.
11. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS UP TO WIND ZONE 3.

12. FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #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.
13. FOR ANCHORING INTO MASONRY/CONCRETE USE 3/16" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14. FOR ANCHORING INTO METAL STRUCTURE USE #10 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:
 - 16.A. WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 16.B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
 - 16.C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 16.D. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM
17. UNITS TO BE MULLED TOGETHER MUST HAVE THEIR OWN PRODUCT APPROVAL.
18. FOR ANCHORING UNITS TO MAIN STRUCTURE REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS OF THE UNIT TO BE INSTALLED.

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SOLAR INNOVATIONS

31 ROVERTS RD
PINE GROVE, PA 17963

SERIES SI7000 G2 FRAME BACK TO BACK
VERTICAL MULLION
NOTES

DRAWN:
R.L.

DWG NO.
08-02959

REV
D

SCALE NTS

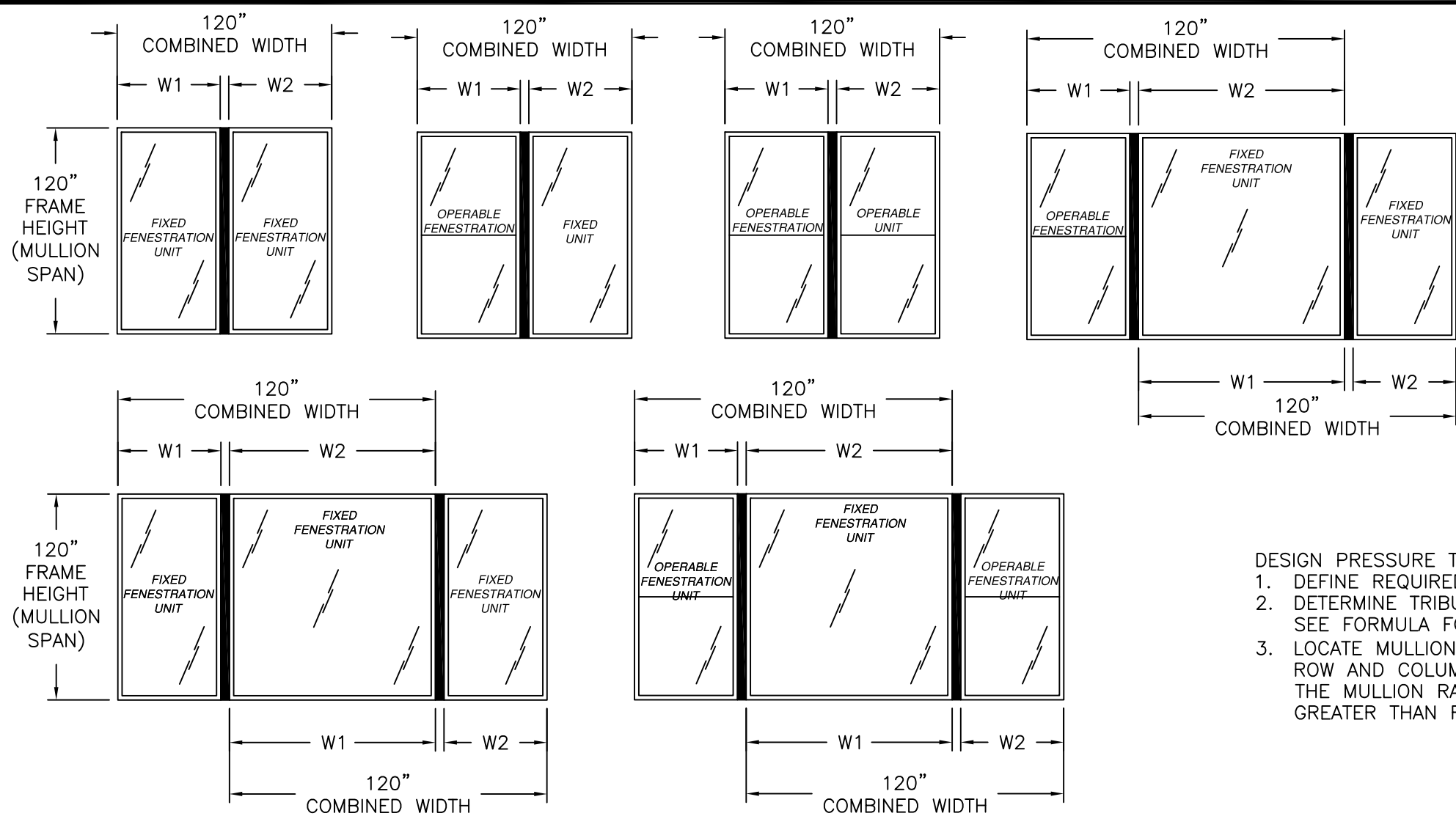
DATE 08/26/16

SHEET 1 OF 6

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SIGNED: 05/27/2026

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



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- DESIGN PRESSURE TABLE INSTRUCTIONS:
1. DEFINE REQUIRED DESIGN LOAD PER FLORIDA BUILDING CODE CHAPTER 16.
 2. DETERMINE TRIBUTARY WIDTH AND MULLION SPAN BASED ON PRODUCT TO BE INSTALLED. SEE FORMULA FOR TRIBUTARY WIDTH.
 3. LOCATE MULLION SPAN (UNIT HEIGHT) AND TRIBUTARY WIDTH. AT THE INTERSECTION OF ROW AND COLUMN CONTAINING THE MULLION SPAN AND TRIBUTARY WIDTH RESPECTIVELY IS THE MULLION RATING FOR PRODUCT IN STEP 2. MULLION RATING MUST BE EQUAL OR GREATER THAN REQUIRED DESIGN PRESSURE OBTAINED IN STEP 1.

TRIBUTARY WIDTH = $\frac{W1 + W2}{2}$

APPROVED CONFIGURATIONS

TWIN AND TRIPLE UNITS ARE SHOWN. UNLIMITED NUMBER OF UNITS MAY BE MULLED TOGETHER AS LONG AS UNIT SIZES DO NOT EXCEED SIZES SHOWN HEREIN AND MULLION IS ANCHORED AS SHOWN IN INSTALLATION DETAILS
SEE NOTE 6 SHEET 1

Design pressure rating (psf)							
Mullion span (in)	design pressure ratings are positive and negative						
	Tributary width (in)						
	24.00	30.00	36.00	42.00	48.00	54.00	60.00
24.00	150.0	150.0	150.0	150.0	150.0	150.0	150.0
30.00	138.7	133.1	133.1	133.1	133.1	133.1	133.1
36.00	104.0	95.1	92.4	92.4	92.4	92.4	92.4
42.00	83.2	74.0	69.3	67.9	67.9	67.9	67.9
48.00	69.3	60.5	55.5	52.8	52.0	52.0	52.0
54.00	59.4	51.2	46.2	43.2	41.6	41.1	41.1
60.00	52.0	44.4	39.6	36.6	34.7	33.6	33.3
66.00	46.2	39.2	34.7	31.7	29.7	28.4	27.7
72.00	41.6	35.0	30.8	28.0	26.0	24.7	23.8
78.00	37.8	31.7	27.7	25.0	23.1	21.8	20.8
84.00	34.7	28.9	25.2	22.6	20.8	19.5	18.5
90.00	32.0	26.6	23.1	20.7	18.9	17.6	16.6
96.00	29.7	24.7	21.3	19.0	17.3	16.1	15.1
102.00	27.7	23.0	19.8	17.6	16.0	-	-
108.00	26.0	21.5	18.5	16.4	-	-	-
114.00	24.5	20.2	17.3	15.3	-	-	-
120.00	23.1	19.0	16.3	-	-	-	-

Impact rating: large and small missile up to wind zone 3

SOLAR INNOVATIONS
31 ROVERTS RD
PINE GROVE, PA 17963

SERIES SI7000 G2 FRAME BACK TO BACK
VERTICAL MULLION
ELEVATION AND CHARTS

DRAWN:
R.L.

DWG NO.
08-02959

REV
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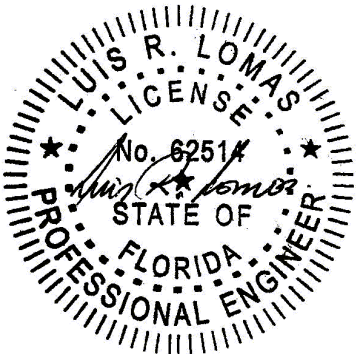
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DATE
08/26/16

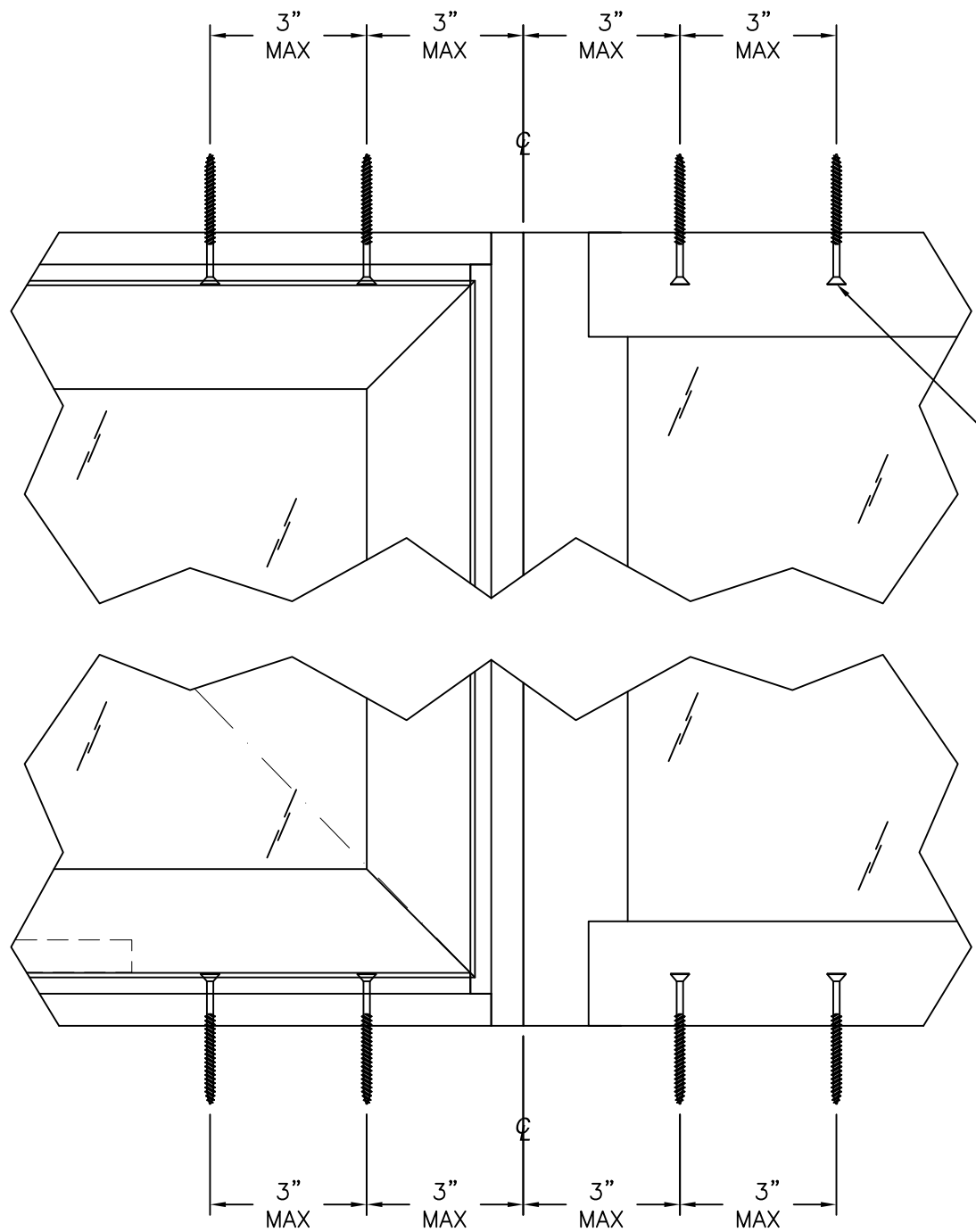
SHEET
2 OF 6

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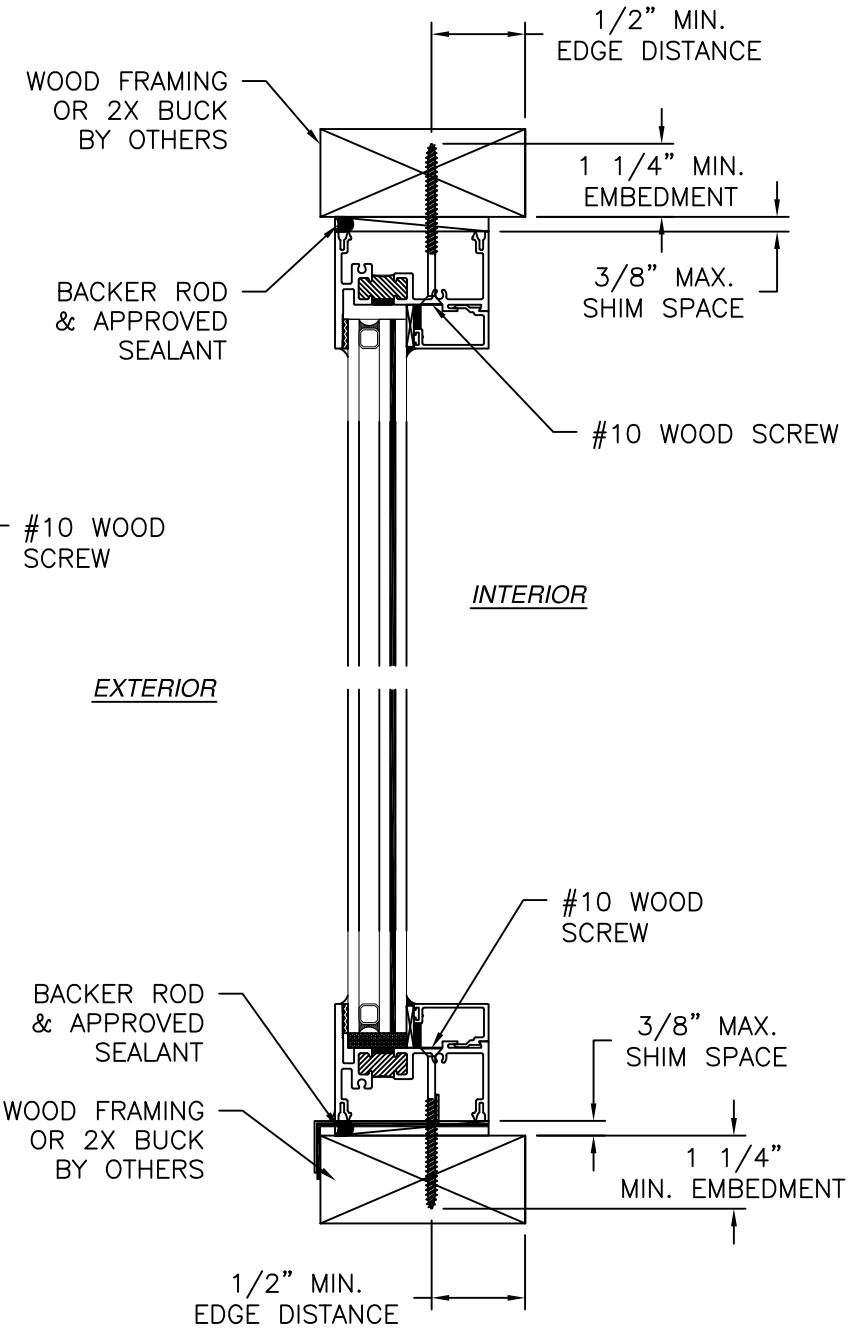
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VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



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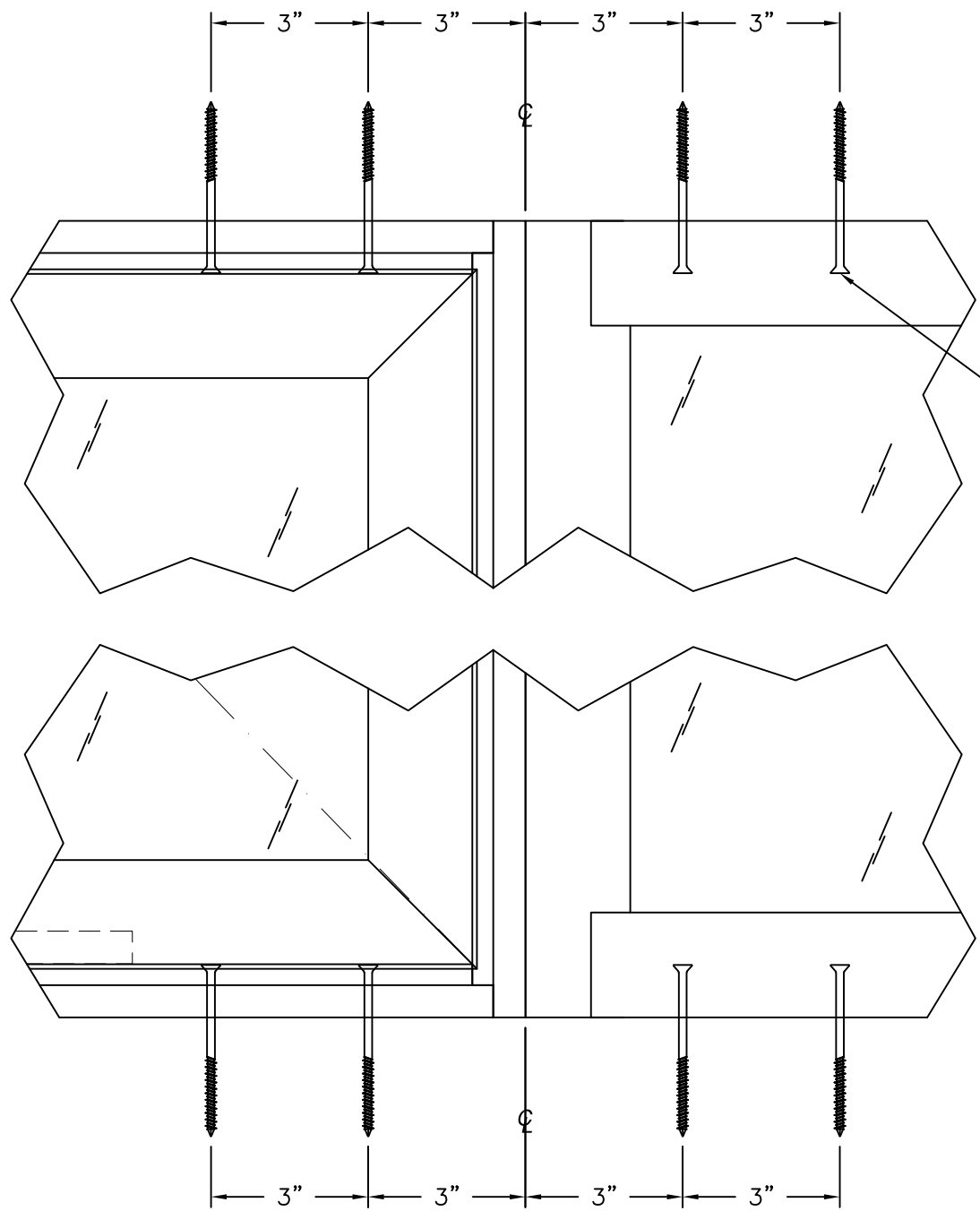
NOTES:
 1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112

SIGNED: 05/27/2026

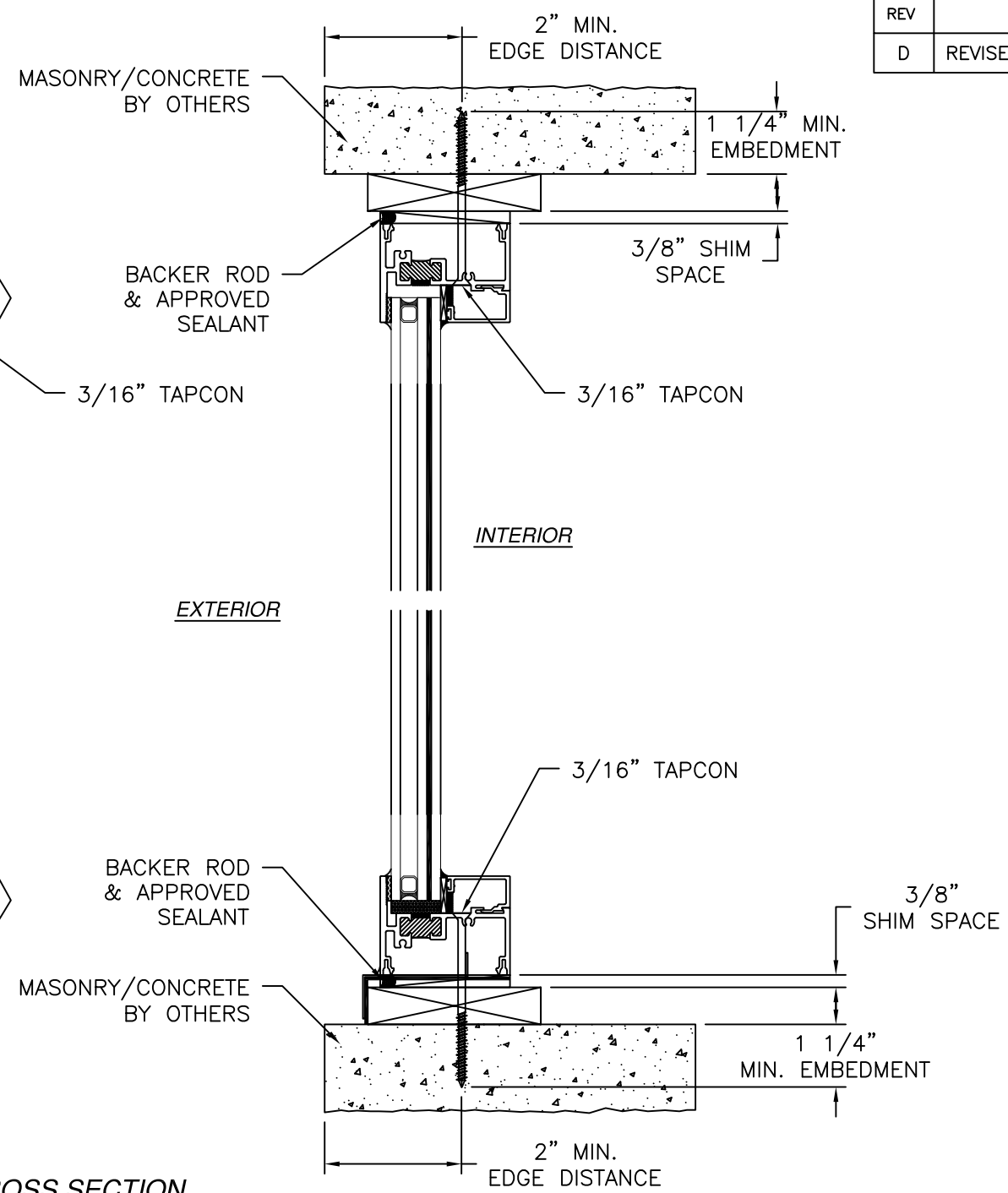
SOLAR INNOVATIONS 31 ROVERTS RD PINE GROVE, PA 17963		
SERIES SI7000 G2 FRAME BACK TO BACK VERTICAL MULLION INSTALLATION DETAILS		
DRAWN: R.L.	DWG NO. 08-02959	REV D
SCALE NTS	DATE 08/26/16	SHEET 3 OF 6
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Professional Engineer Seal for Luis R. Lomas, State of Florida, License No. 62514.

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VERTICAL CROSS SECTION
MASONRY/CONCRETE INSTALLATION

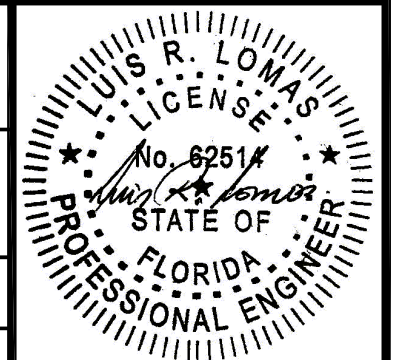


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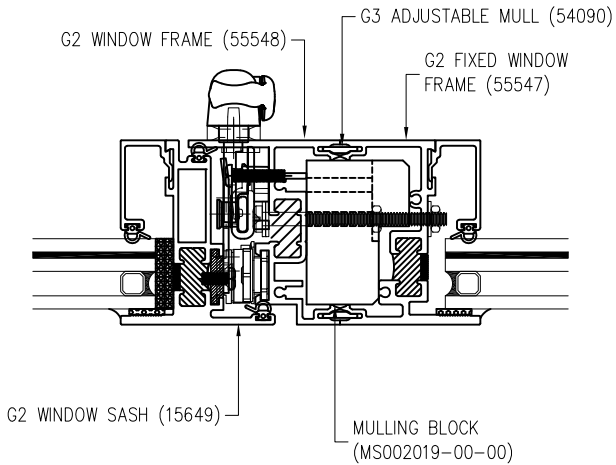
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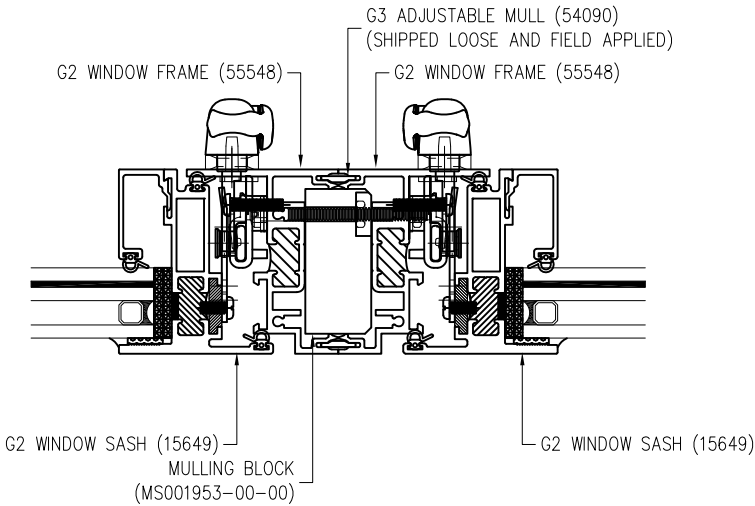
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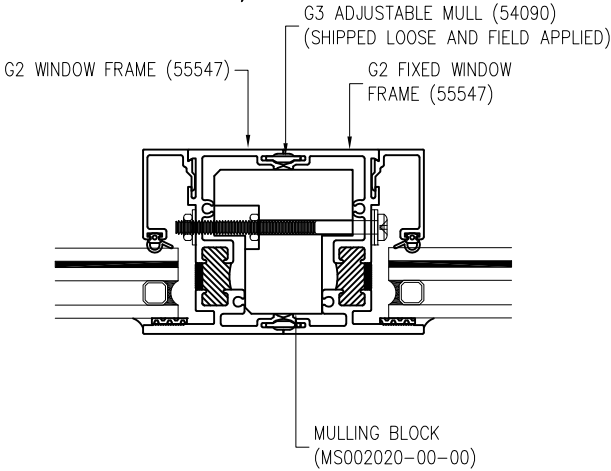
CASEMENT/FIXED



CASEMENT/CASEMENT

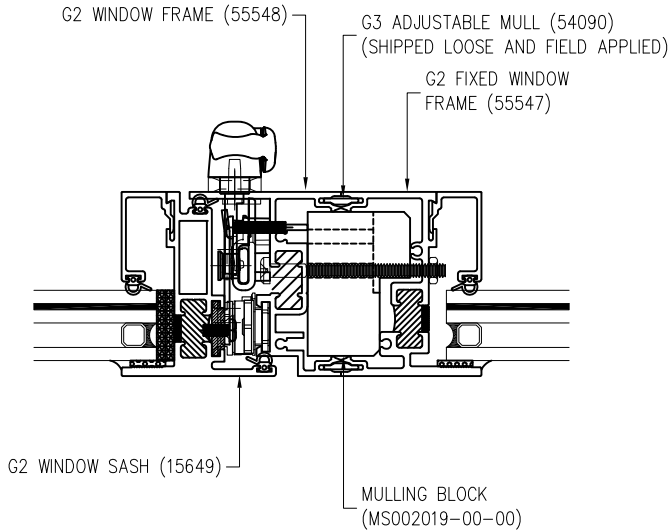


FIXED/FIXED

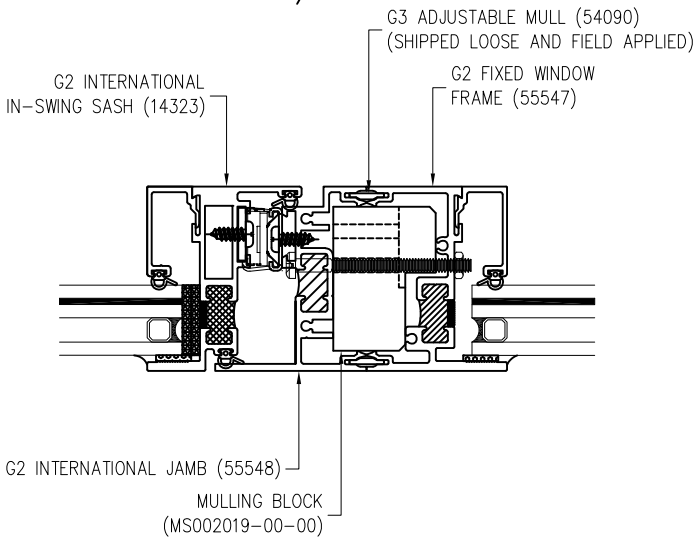


- APPROVED COMBINATIONS:
1. G2 CASEMENT / G2 CASEMENT
 2. G2 CASEMENT / G2 FIXED
 3. G2 CASEMENT / G2 AWNING
 4. G2 CASEMENT / G2 HOPPER
 5. G2 CASEMENT / G2 TILT & TURN
 6. G2 FIXED / G2 CASEMENT
 7. G2 FIXED / G2 FIXED
 8. G2 FIXED / G2 AWNING
 9. G2 FIXED / G2 HOPPER
 10. G2 FIXED / G2 TILT & TURN
 11. G2 AWNING / G2 CASEMENT
 12. G2 AWNING / G2 FIXED
 13. G2 AWNING / G2 AWNING
 14. G2 AWNING / G2 HOPPER
 15. G2 AWNING / G2 TILT & TURN
 16. G2 HOPPER / G2 CASEMENT
 17. G2 HOPPER / G2 FIXED
 18. G2 HOPPER / G2 AWNING
 19. G2 HOPPER / G2 HOPPER
 20. G2 HOPPER / G2 TILT & TURN
 21. G2 TILT & TURN / G2 CASEMENT
 22. G2 TILT & TURN / G2 FIXED
 23. G2 TILT & TURN / G2 AWNING
 24. G2 TILT & TURN / G2 HOPPER
 25. G2 TILT & TURN / G2 TILT & TURN

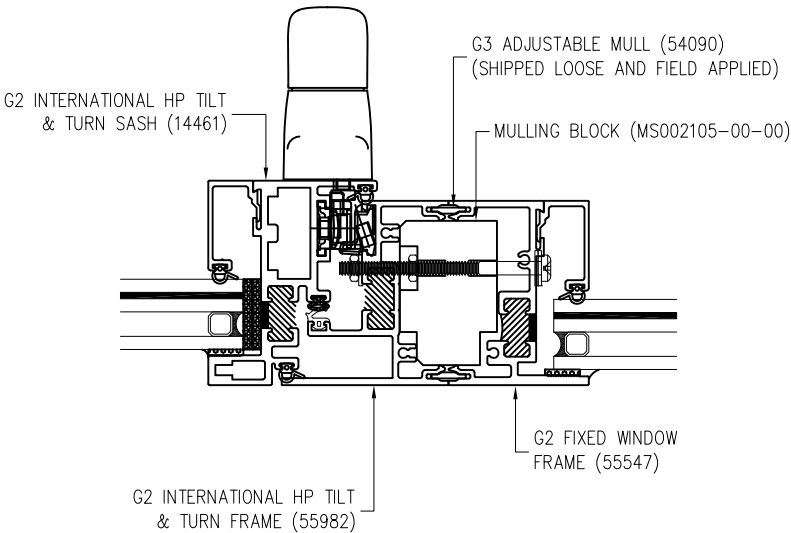
AWNING/FIXED



HOPPER/FIXED



TILT-N-TURN/FIXED



SOLAR INNOVATIONS

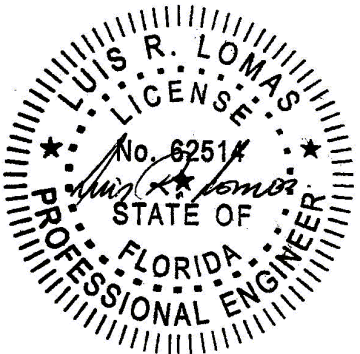
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VERTICAL MULLION
INSTALLATION DETAILS

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