REVISIONS				
REV	DESCRIPTION	DATE	APPROVED	
А	REVISED PER NEW REQUIREMENTS	02/17/2020	R.L.	

NOTES:

- 1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2018 IBC AND 2018 IRC.
- 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. 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
- 4. WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" 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. 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 UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
- 8. 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".
- 9. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
- 10. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- 11. FRAME MATERIAL: ALUMINUM 6063-T5, 6063-T5 AND 6005A-T5.
- 12. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 3 FOR GLASS DETAILS.
- 13. APPROVED IMPACT PROTECTIVE SYSTEM <u>IS NOT REQUIRED</u> FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- 14. FOR ANCHORING THROUGH FRAME INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16" MINIMUM EMBEDMENT INTO SUBSTRATE, LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

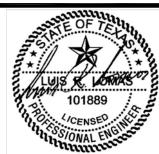
- 15. FOR ANCHORING THROUGH FRAME INTO MASONRY/CONCRETE USE 1/4" ELCO CRETE-FLEX WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1 3/4" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- 16. FOR ANCHORING THROUGH FRAME INTO METAL 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.
- 17. ALL FASTENERS TO BE CORROSION RESISTANT.
- 18. 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 3,000 PSI.
 - C. MASONRY: GROUT/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.

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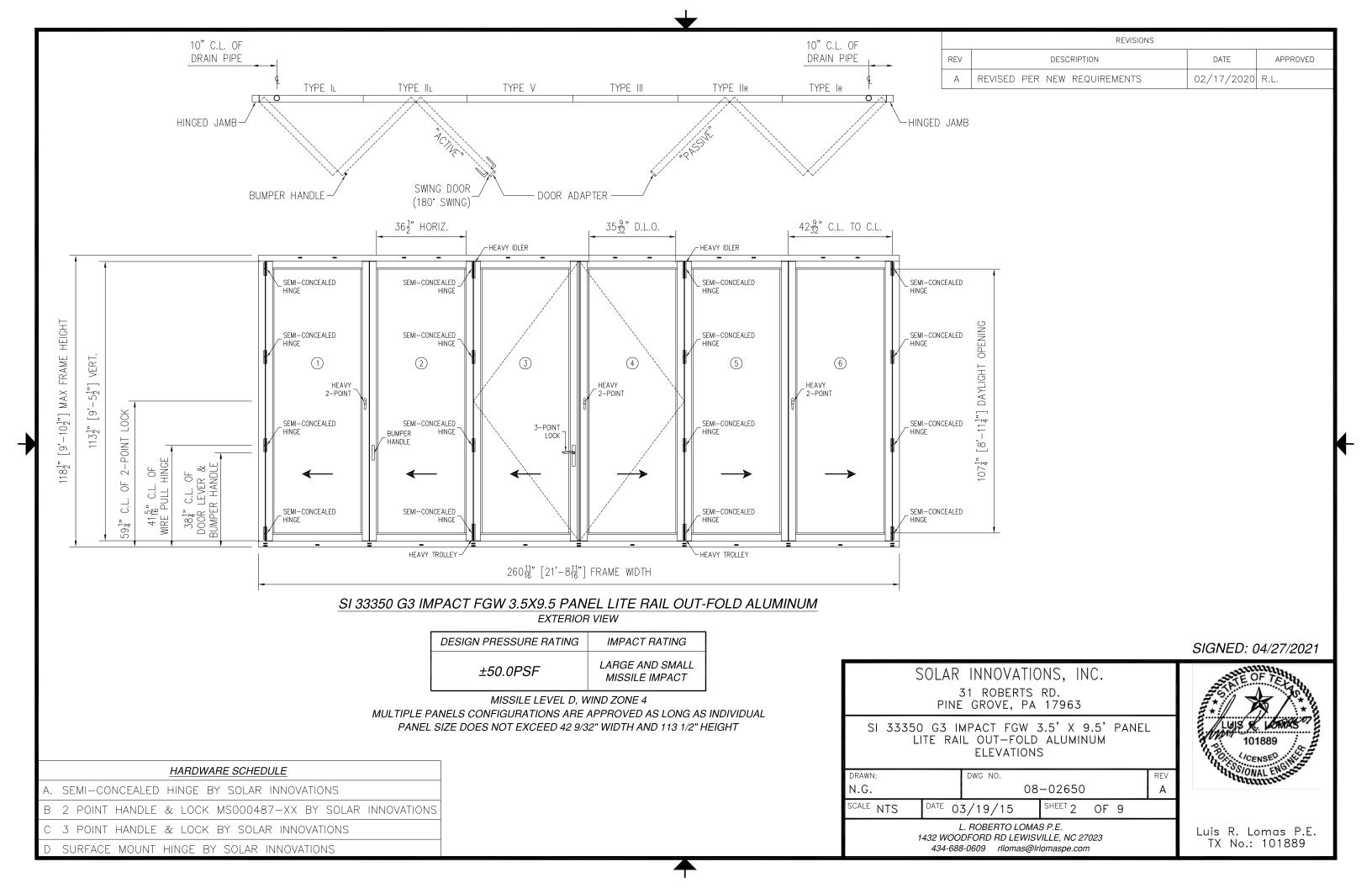
D. METAL STRUCTURE: STEEL 18GA (.048") FY=33KSI/FU=52KSI OR ALUMINUM 6063-T5 FU=30KSI .125" THICK MINIMUM

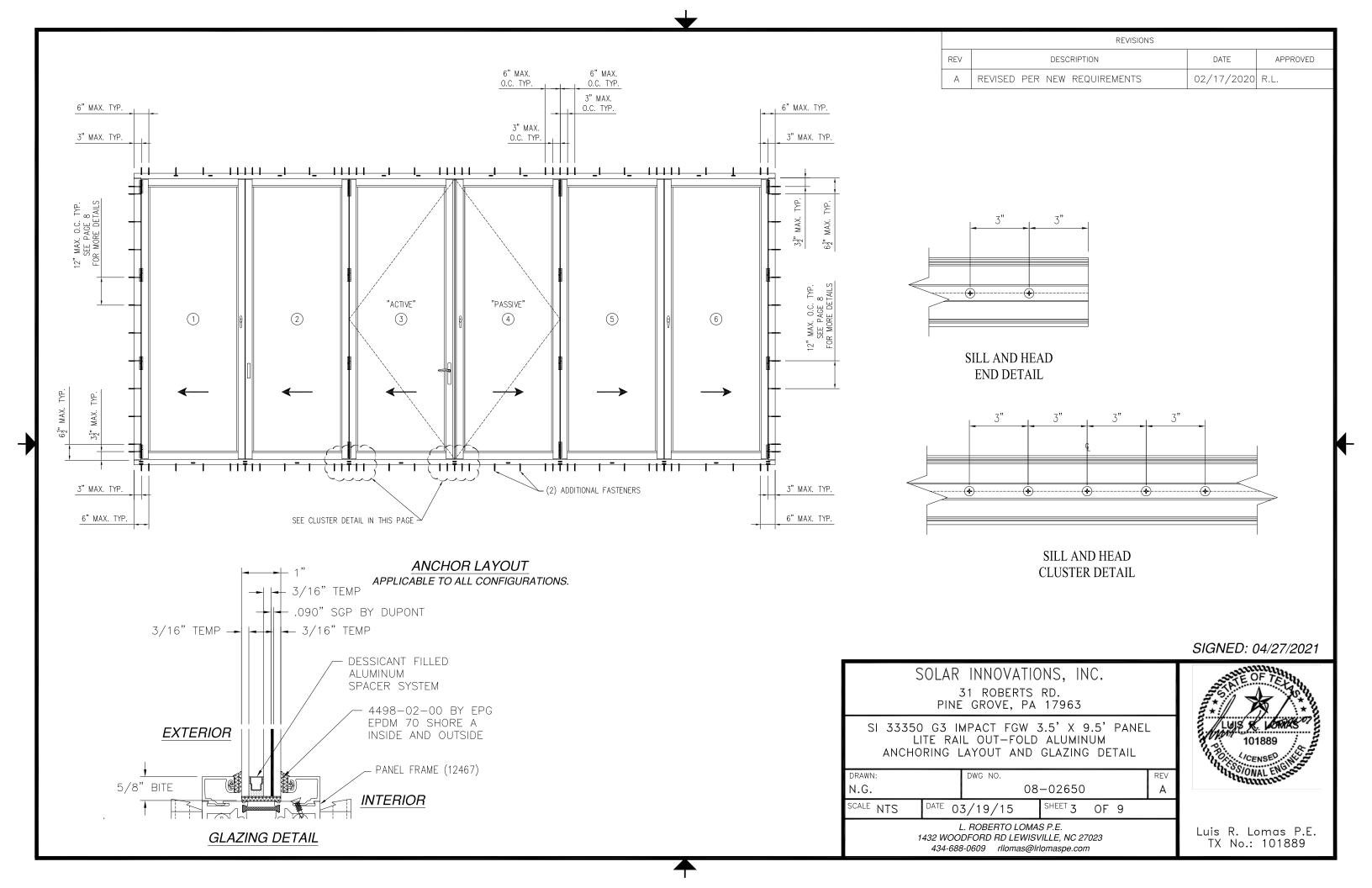
SIGNED: 04/27/2021

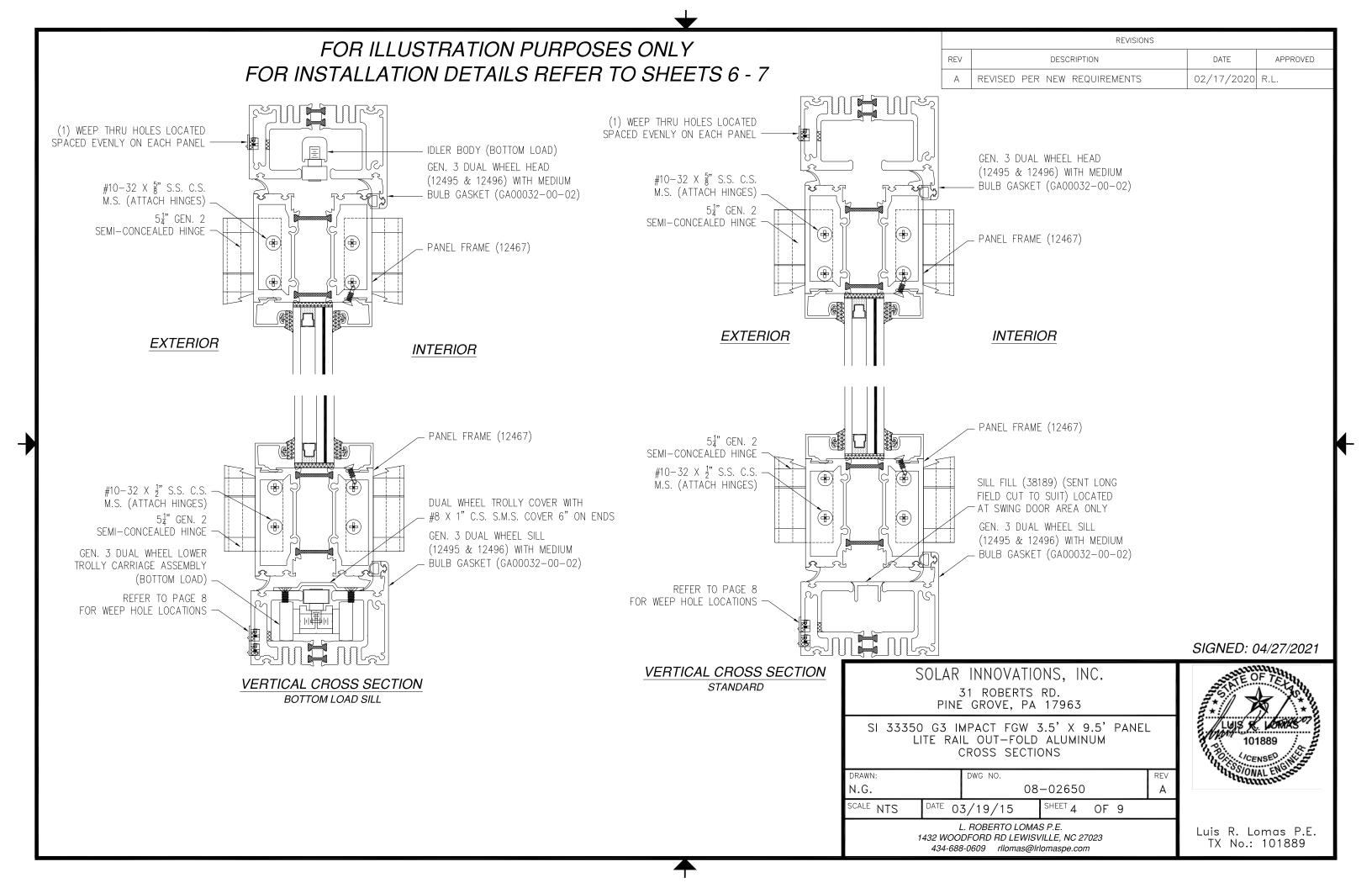
			SOLAR INNOVATIONS, INC.				
	TABLE OF CONTENTS	31 ROBERTS RD.					
SHEET NO.	DESCRIPTION	PINE GROVE, PA 17963					
1	NOTES	SI 33350 G3 IMPACT FGW 3.5' X 9.5' PANEL LITE RAIL OUT—FOLD ALUMINUM					
2	ELEVATIONS	NOTES					
3	ANCHORING LAYOUT	DRAWN: DWG NO. RE		REV			
4 - 5	CROSS SECTIONS	N.G.		08-02650		Α	
6 - 7	INSTALLATION DETAILS	SCALE NTS DATE 03/19/		3/19/15	SHEET 1 OF 9		
8	WEEP DETAILS		L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE. NC 27023				
9	COMPONENTS	434-688-0609 rllomas@lrlomaspe.com			L		
		<u>"</u>	<u> </u>	<u>"</u>	<u> </u>		

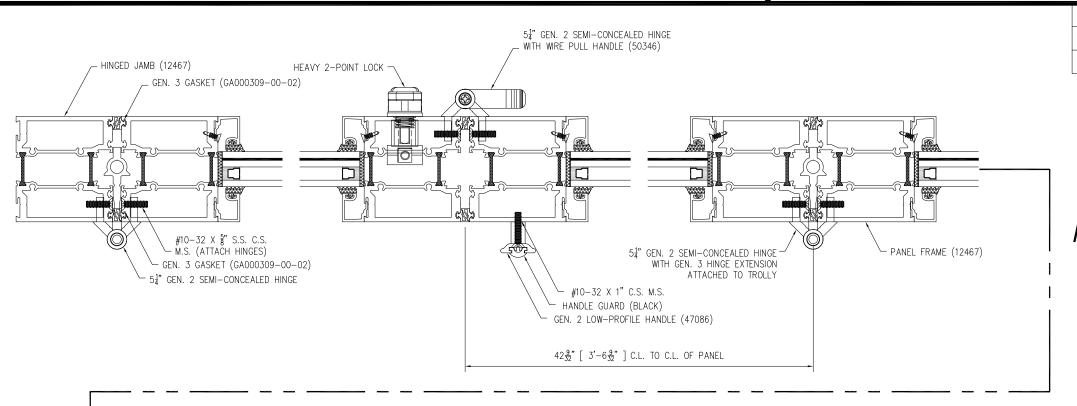


Luis R. Lomas P.E. TX No.: 101889









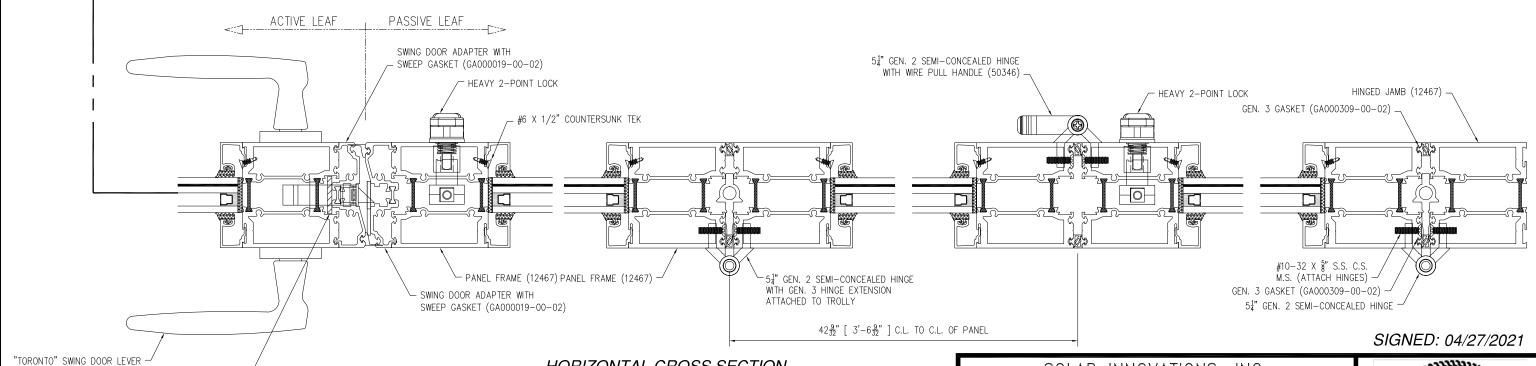
1/8" X 1 1/16" ALUMINUM SHIM ATTACHED WITH #8 X 1 1/2" COUNTERSUNK S.M.S.

REVISIONS

REV DESCRIPTION DATE APPROVED

A REVISED PER NEW REQUIREMENTS 02/17/2020 R.L.

FOR ILLUSTRATION PURPOSES ONLY FOR INSTALLATION DETAILS REFER TO SHEETS 6 - 7



HORIZONTAL CROSS SECTION

SOLAR INNOVATIONS, INC.

31 ROBERTS RD.
PINE GROVE, PA 17963

SI 33350 G3 IMPACT FGW 3.5' X 9.5' PANEL LITE RAIL OUT-FOLD ALUMINUM CROSS SECTIONS

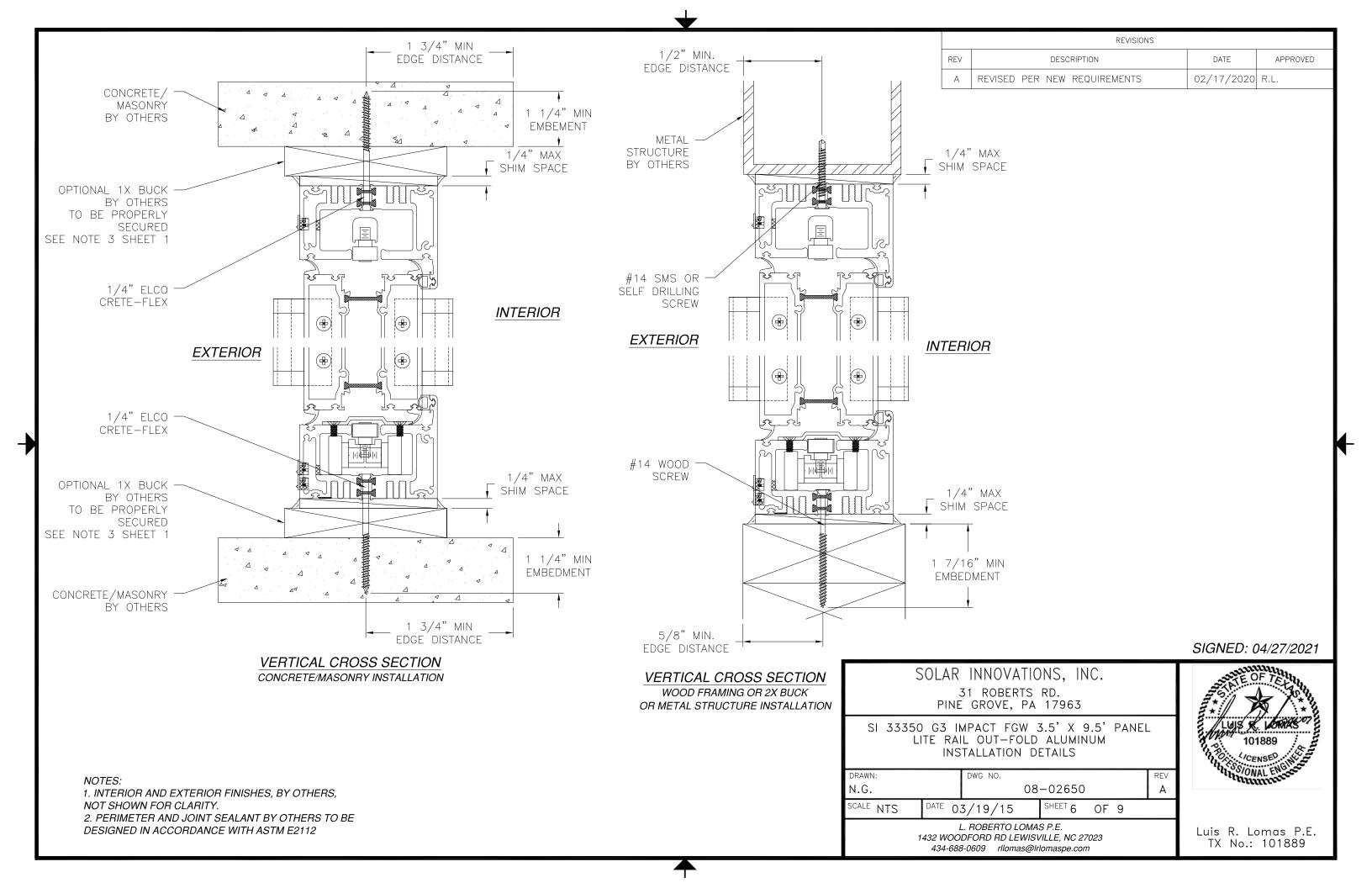
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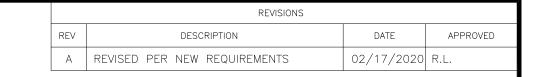
SCALE NTS DATE 03/19/15 SHEET 5 OF 9

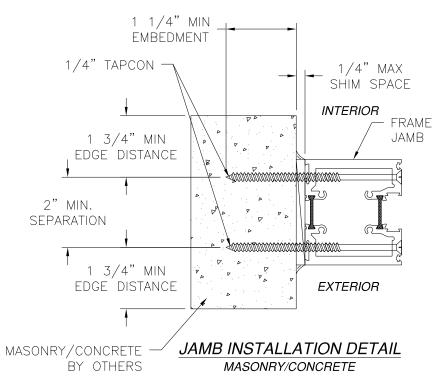
L. ROBERTO LOMAS P.E. 1432 WOODFORD RD LEWISVILLE, NC 27023 434-688-0609 rllomas@irlomaspe.com

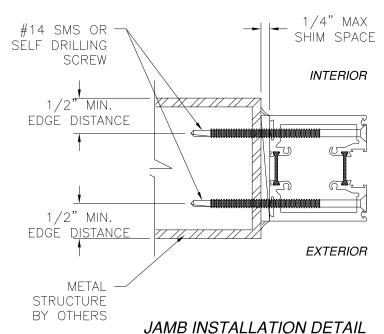


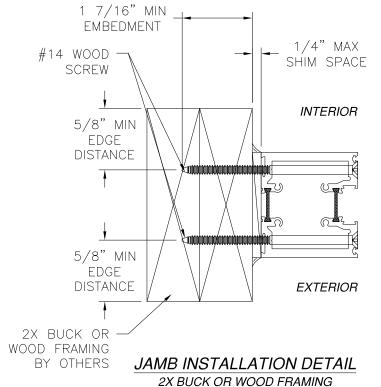
Luis R. Lomas P.E. TX No.: 101889









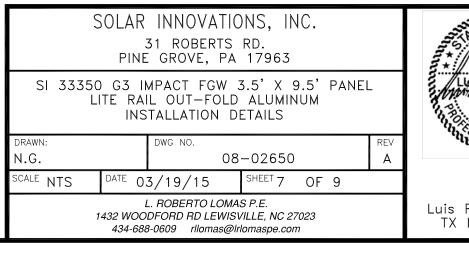


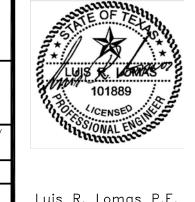
NOTES:

METAL STRUCTURE

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: 04/27/2021





Luis R. Lomas P.E. TX No.: 101889

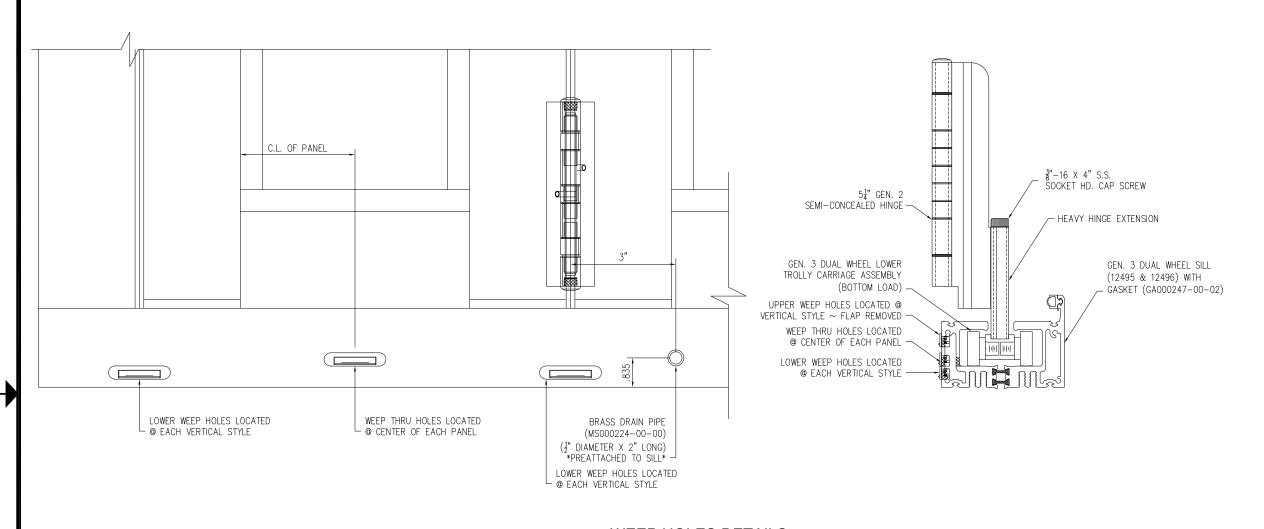


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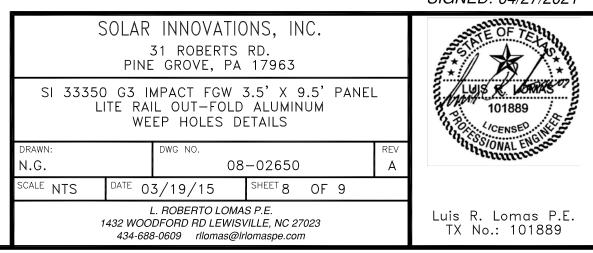
12"

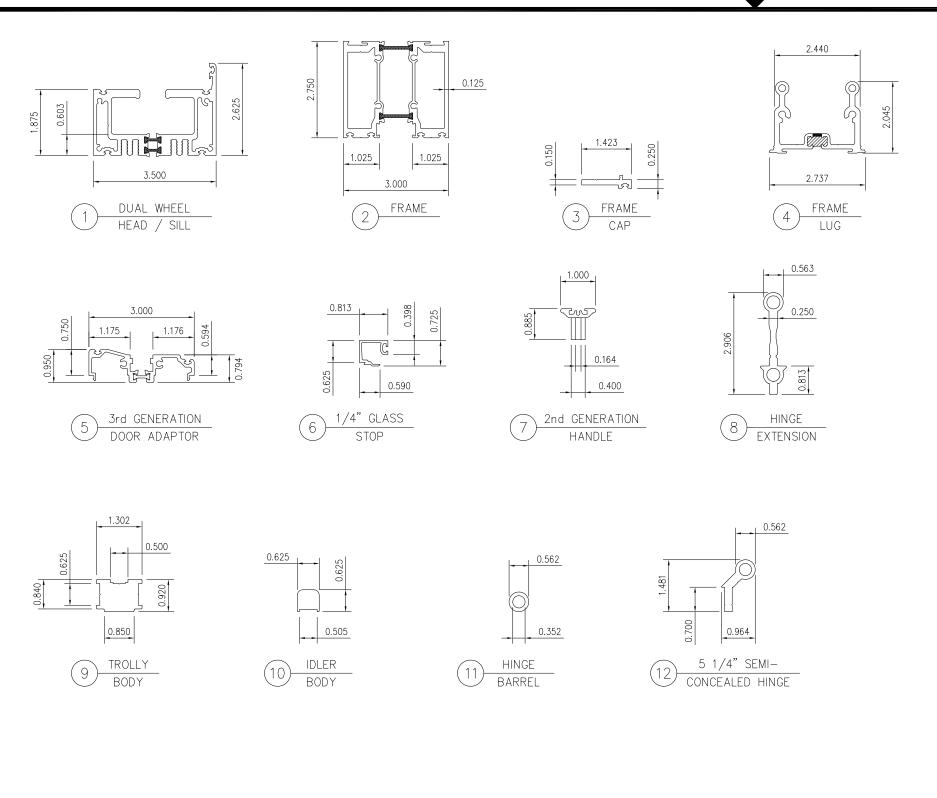
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WEEP HOLES DETAILS

SIGNED: 04/27/2021





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