

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
D	REVISED DETAILS	05/01/26	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 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. BUCKS SHALL EXTEND BEYOND UNIT FRAME INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
5. 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.
6. FRAME MATERIAL: ALUMINUM 6063-T6 AND 6005A-T5.
7. UNITS MUST BE GLAZED PER ASTM E1300, WITH SAFETY GLAZING.
8. APPROVED IMPACT PROTECTIVE SYSTEM IS REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
9. 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 3/8".

10. FOR ANCHORING 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.
11. FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" 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.
12. 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.
13. ALL FASTENERS TO BE CORROSION RESISTANT.
14. 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:
 - 14.1. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
 - 14.2. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI.
 - 14.3. MASONRY – STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - 14.4. METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 .125" THICK MINIMUM

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10	COMPONENTS

SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 G3 FGW 3.5x9.5 PANEL 90° CORNER
NO POST – FLUSH SILL NON-IMPACT
NOTES

DRAWN:
J.L.

DWG NO.
08-01986D

REV
D

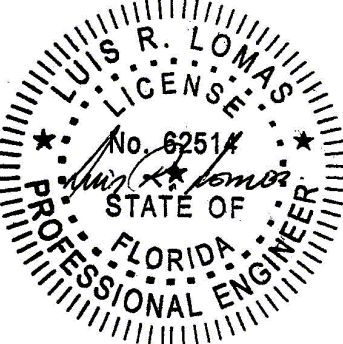
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DATE 04/22/13

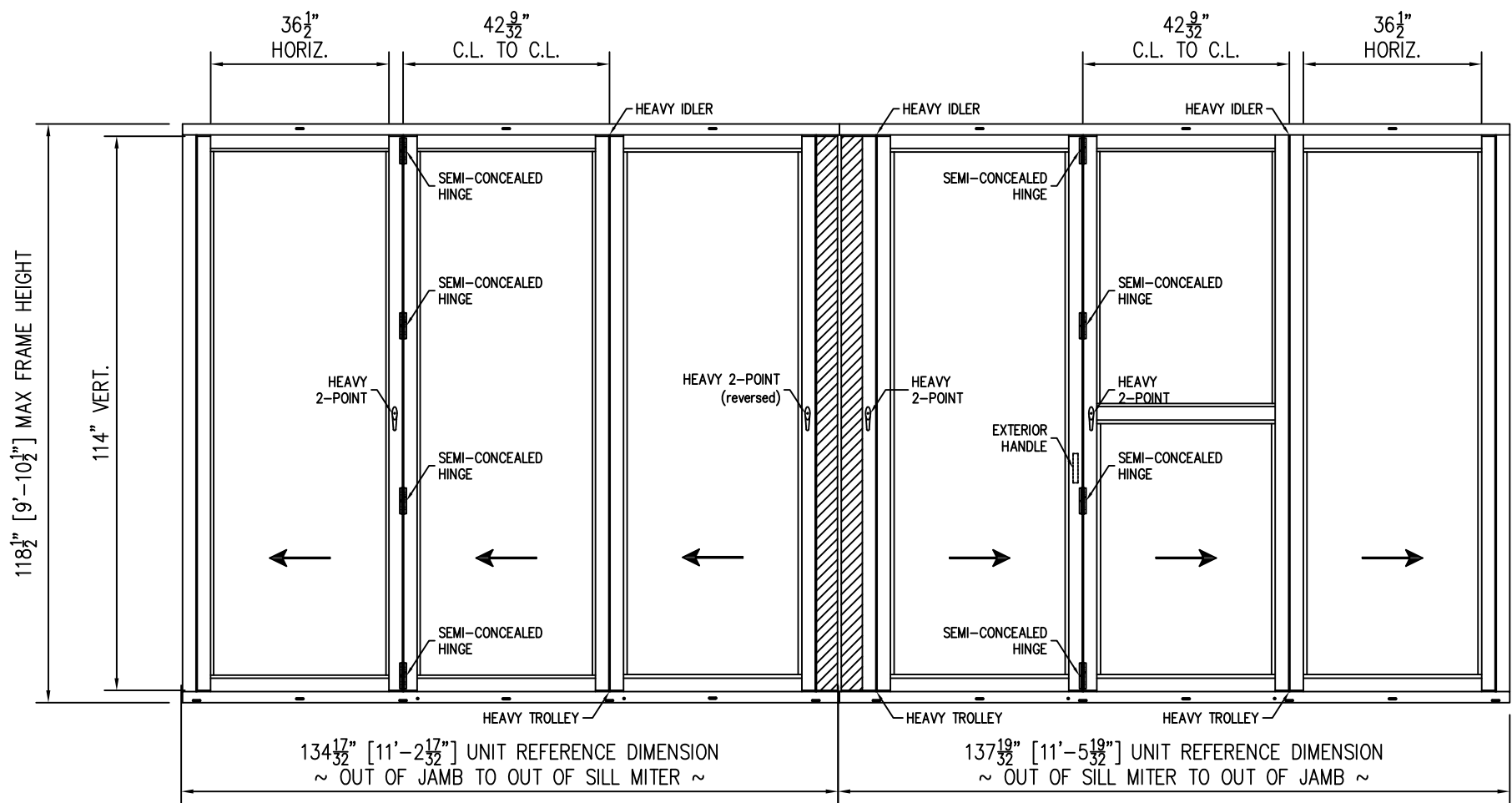
SHEET 1 OF 10

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

SIGNED: 05/02/2026



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

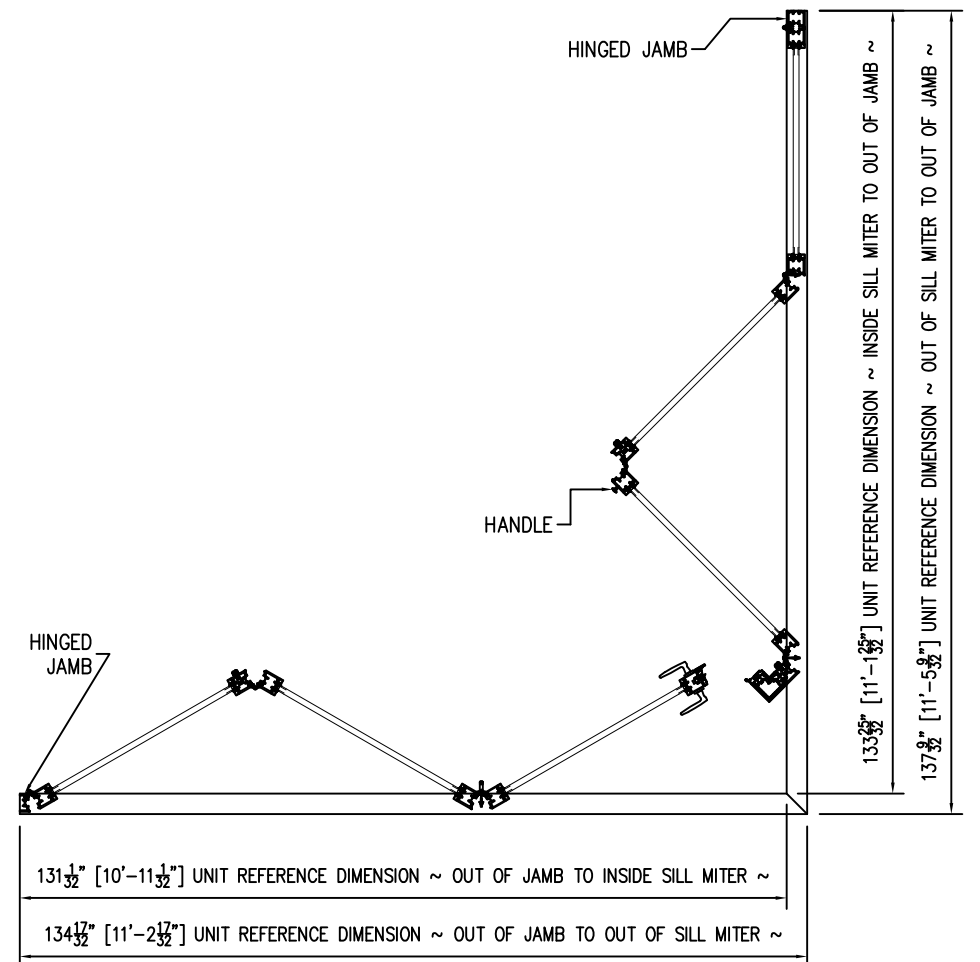


SERIES SI3000 G3 FGW 3.5X9.5 PANEL 90° CORNER NO-POST - FLUSH SILL NON IMPACT
EXTERIOR VIEW
UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATION ARE APPROVED
AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 33.32 FT² AND USES VERTICAL CONDITIONS AS SHOWN.

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	NONE

SEE CHART #1 THIS SHEET

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SERIES SI3000 G3 FGW 3.5X9.5 PANEL 90° CORNER NO-POST - FLUSH SILL NON IMPACT
PLAN VIEW

- NOTES:
- PANEL SIZE: 42 9/32" x 114"
 - D.L.O. SIZE: 36 1/2" x 107 1/4"

HARDWARE SCHEDULE

- A. SEMI-CONCEALED HINGE BY SOLAR INNOVATIONS
B. 2 POINT HANDLE & LOCK MS000487-XX BY SOLAR INNOVATIONS

Chart #1 Maximum Design pressure (psf)										
Panel Height (in)	Single Panel Width (in)									
	24.0		30.0		36.0		42.28		48.0	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
78.0	60.0	82.5	60.0	82.5	60.0	82.5	60.0	80.4	60.0	70.8
84.0	60.0	82.5	60.0	82.5	60.0	82.5	60.0	74.6	60.0	65.7
90.0	60.0	82.5	60.0	82.5	60.0	81.8	60.0	69.7	60.0	61.4
96.0	60.0	82.5	60.0	82.5	60.0	76.7	60.0	65.3	57.5	57.5
102.0	60.0	82.5	60.0	82.5	60.0	71.4	60.0	61.5	-	-
108.0	60.0	82.5	60.0	77.4	60.0	66.6	58.1	58.1	-	-
114.0	60.0	82.5	60.0	72.7	60.0	62.5	55.0	55.0	-	-
120.0	60.0	79.8	60.0	64.5	54.3	54.3	-	-	-	-
126.0	60.0	68.9	55.5	55.5	46.8	46.8	-	-	-	-
132.0	59.8	59.8	48.2	48.2	40.5	40.5	-	-	-	-
138.0	52.3	52.3	42.1	42.1	-	-	-	-	-	-
144.0	46.0	46.0	37.0	37.0	-	-	-	-	-	-
150.0	40.6	40.6	32.7	32.7	-	-	-	-	-	-
156.0	36.1	36.1	29.0	29.0	-	-	-	-	-	-

SOLAR INNOVATIONS, INC.
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PINE GROVE, PA 17963

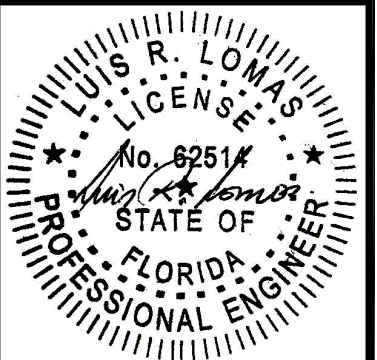
SERIES SI3000 G3 FGW 3.5x9.5 PANEL 90° CORNER
NO POST – FLUSH SILL NON-IMPACT
ELEVATION & DESIGN PRESSURE CHART

DRAWN: J.L. DWG NO. 08-01986D REV D

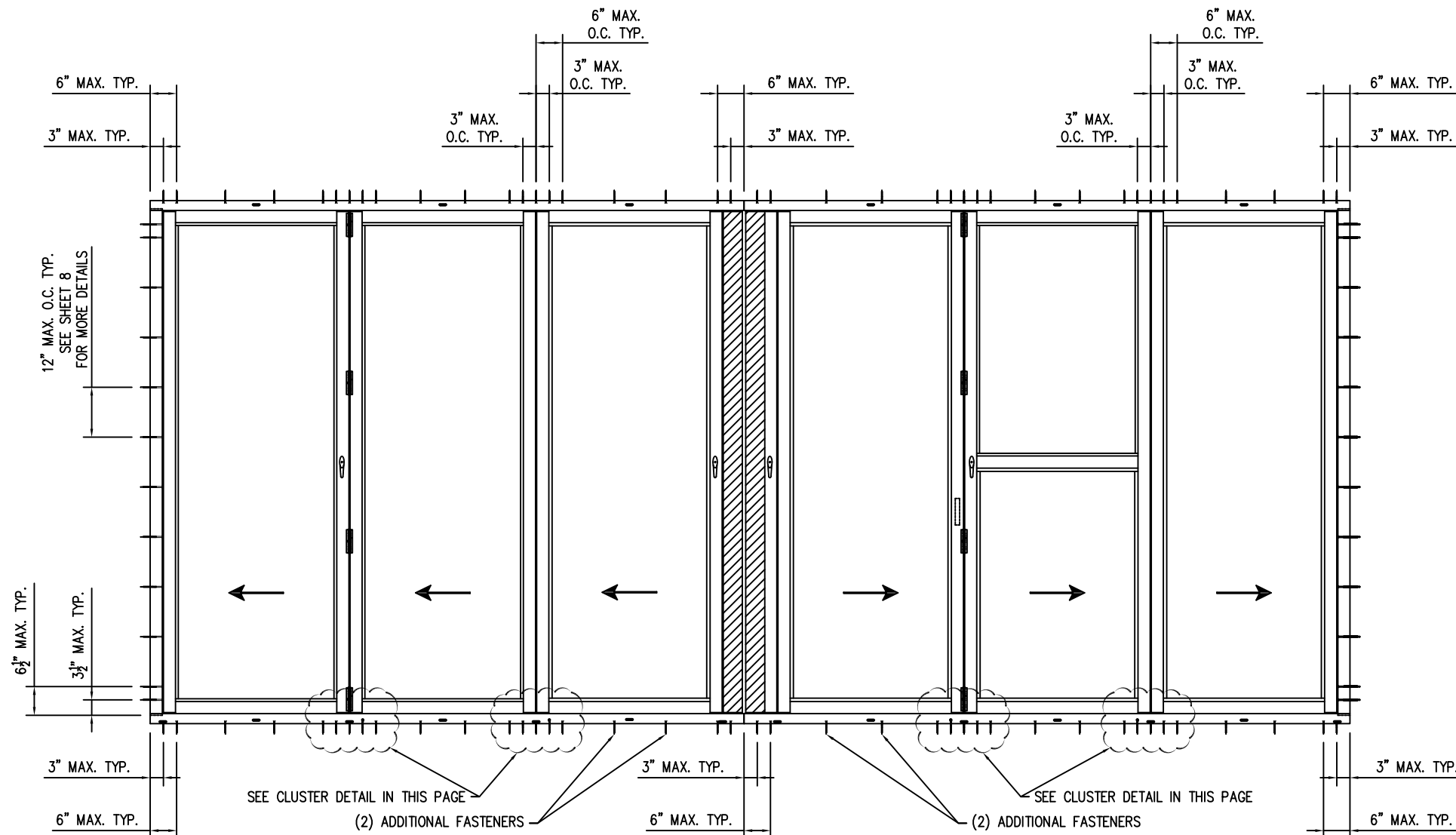
SCALE NTS DATE 04/22/13 SHEET 2 OF 10

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com

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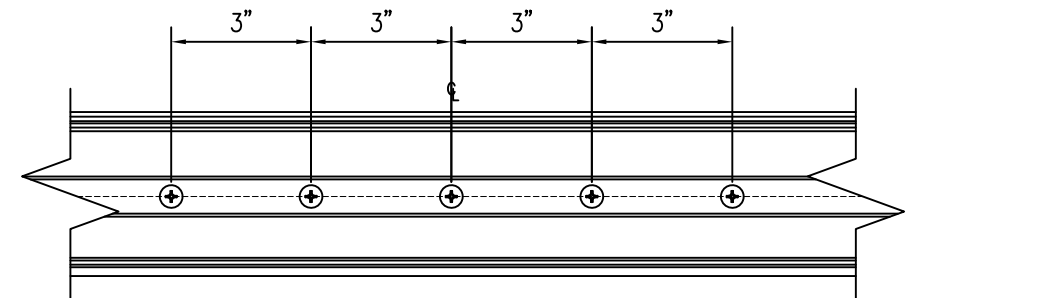


Luis R. Lomas P.E.
FL No.: 62514

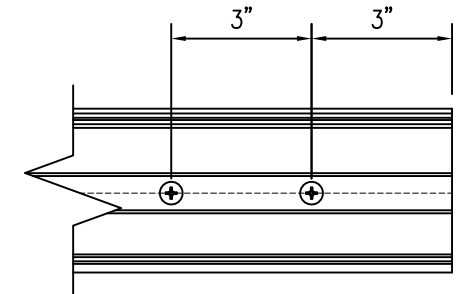


ANCHOR LAYOUT
APPLICABLE TO ALL CONFIGURATIONS.

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**SILL AND HEAD
CLUSTER DETAIL**



**SILL AND HEAD
END DETAIL**

SS SPACER SYSTEM
BY CARDINAL
OR ALUMINUM
SPACER SYSTEM
BY VITRO

SILPRUF BY GE
STRUCTURAL
SEALANT

BULB GASKET
EPDM 70 SHORE A

EXTERIOR

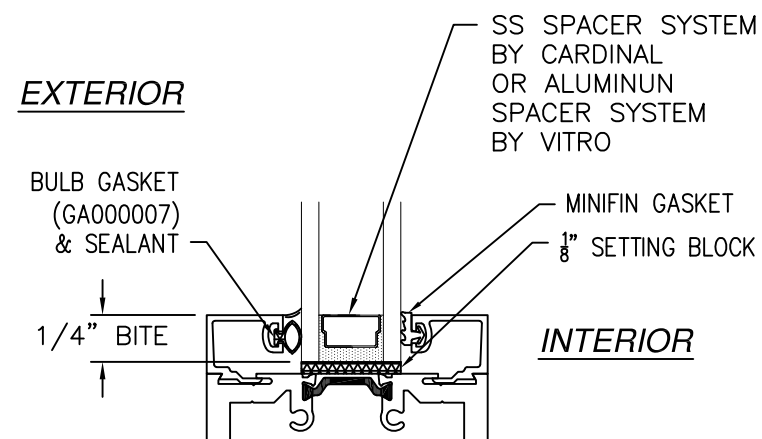
5/8" BITE

GLAZING DETAIL C

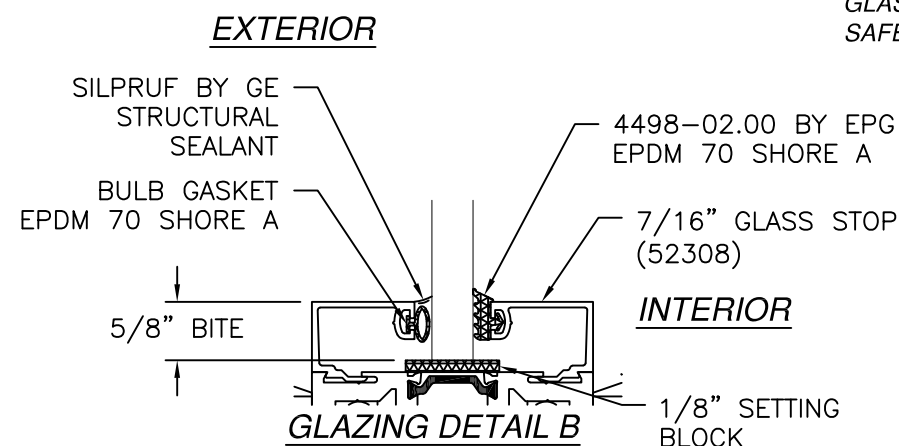
1/8" SETTING
BLOCK

SIGNED: 05/02/2026

NOTE:
GLASS FOR ALL CONFIGURATIONS MUST BE
SAFETY GLASS



GLAZING DETAIL A



GLAZING DETAIL B

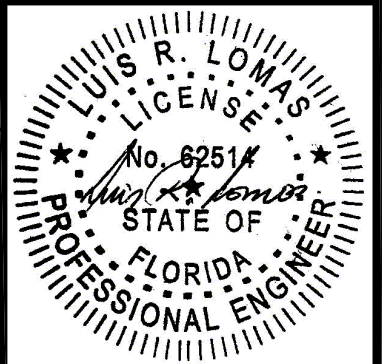
SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

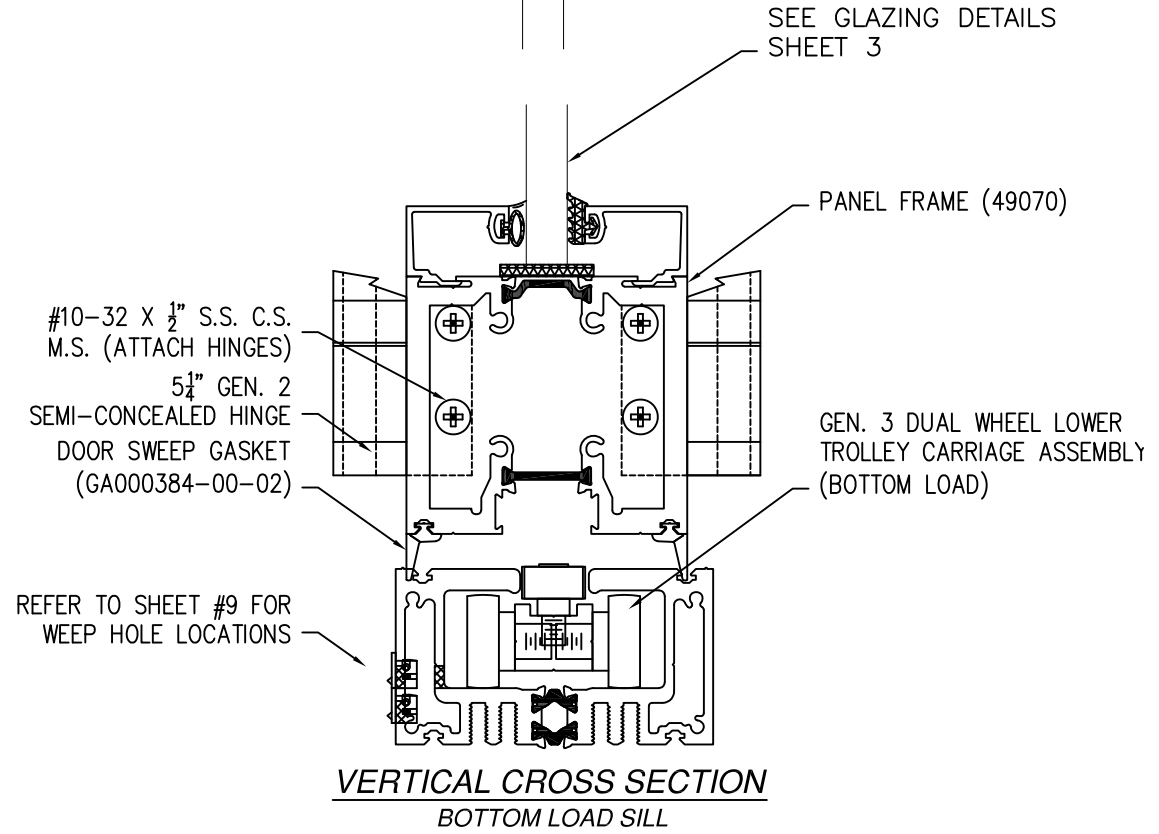
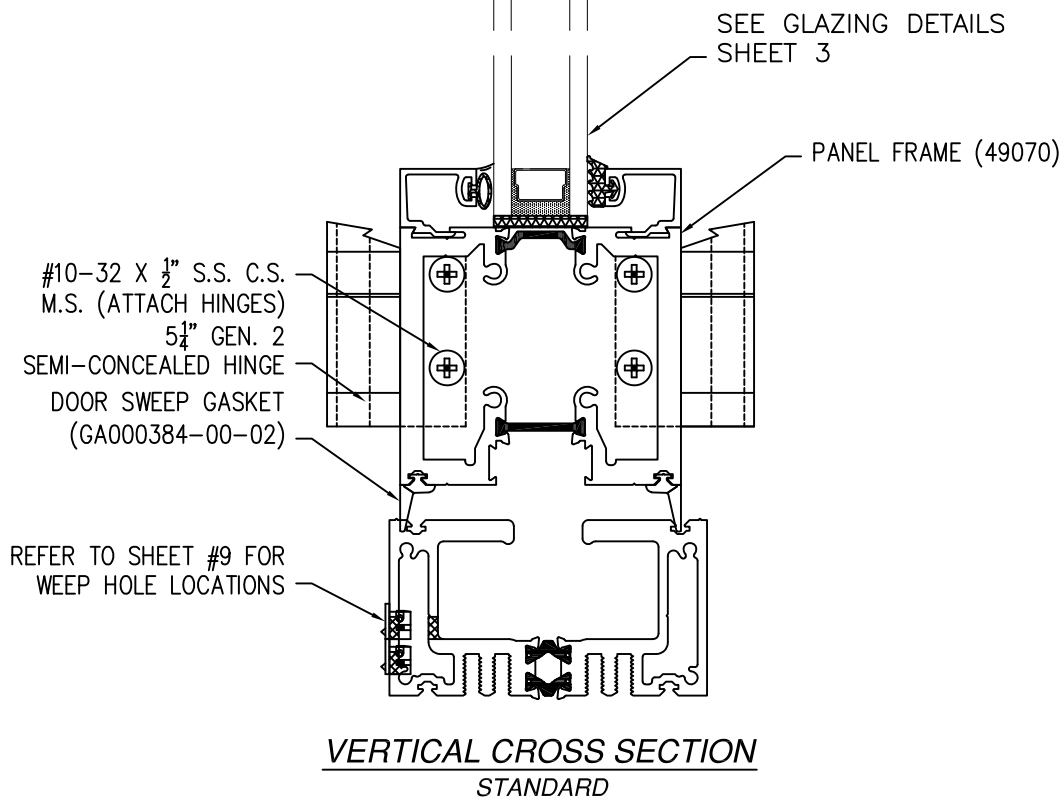
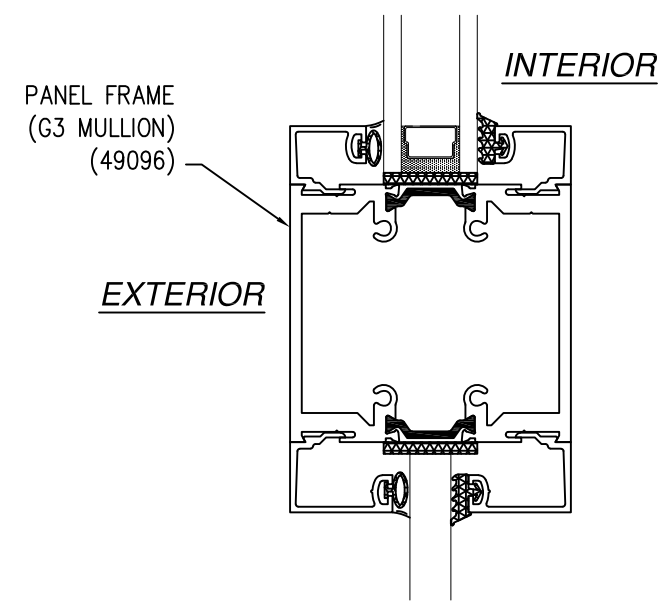
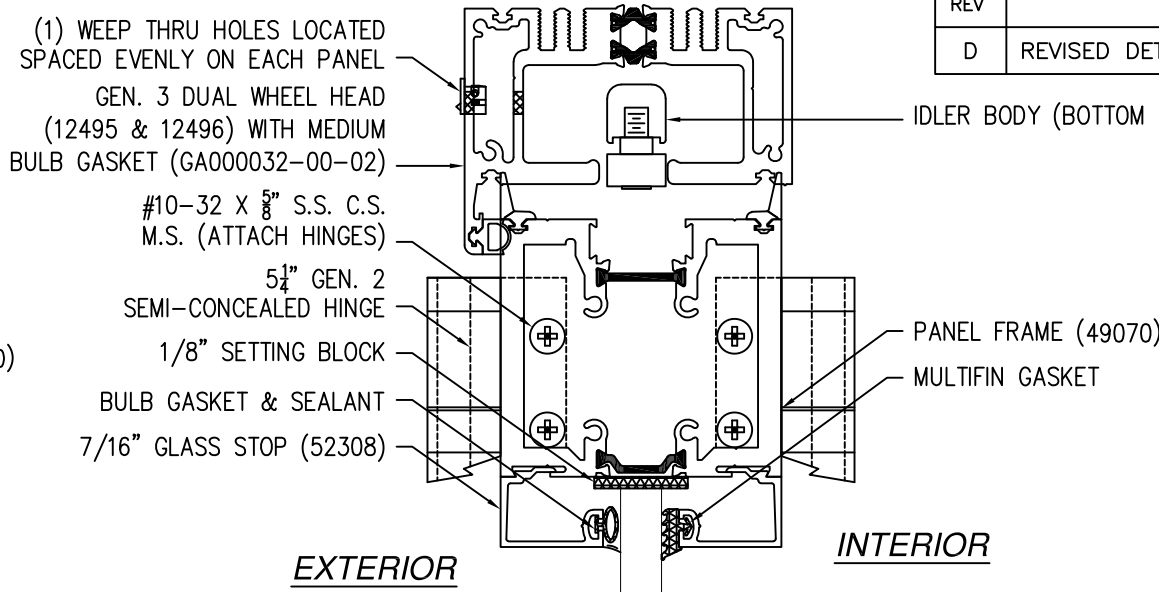
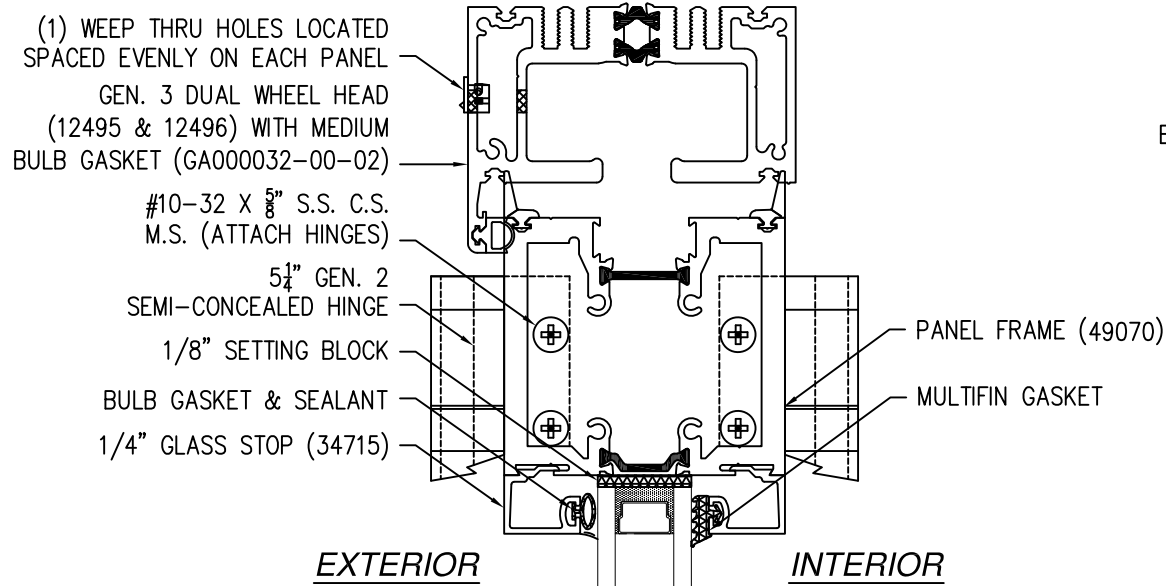
SERIES SI3000 G3 FGW 3.5x9.5 PANEL 90° CORNER
NO POST - FLUSH SILL NON-IMPACT
ANCHOR LAYOUT

DRAWN: J.L.	DWG NO. 08-01986D	REV D
SCALE NTS	DATE 04/22/13	SHEET 3 OF 10

L. ROBERTO LOMAS P.E.
208 7th Ave, INDIALANTIC, FL 32903
434-688-0609 rllomas@lrlomaspe.com



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 31 ROBERTS RD
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SERIES SI3000 G3 FGW 3.5x9.5 PANEL 90° CORNER
 NO POST - FLUSH SILL NON-IMPACT
 CROSS SECTIONS

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SCALE NTS	DATE 04/22/13	SHEET 4 OF 10

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 208 7th Ave, INDIALANTIC, FL 32903
 434-688-0609 rllomas@lrlomaspe.com

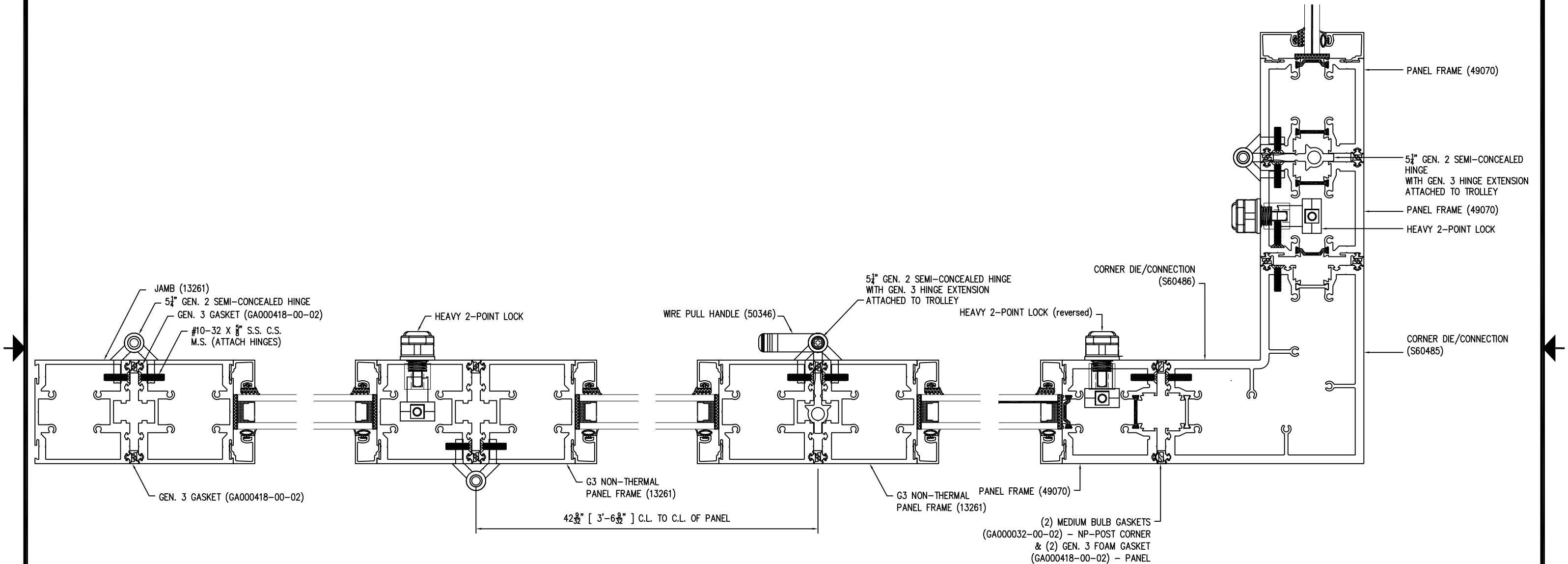
SIGNED: 05/02/2026

LUIS R. LOMAS
 LICENSED PROFESSIONAL ENGINEER
 No. 62514
 STATE OF FLORIDA

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

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CONTINUED
IN SHEET 6



HORIZONTAL CROSS SECTION

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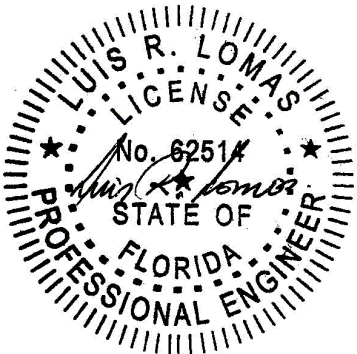
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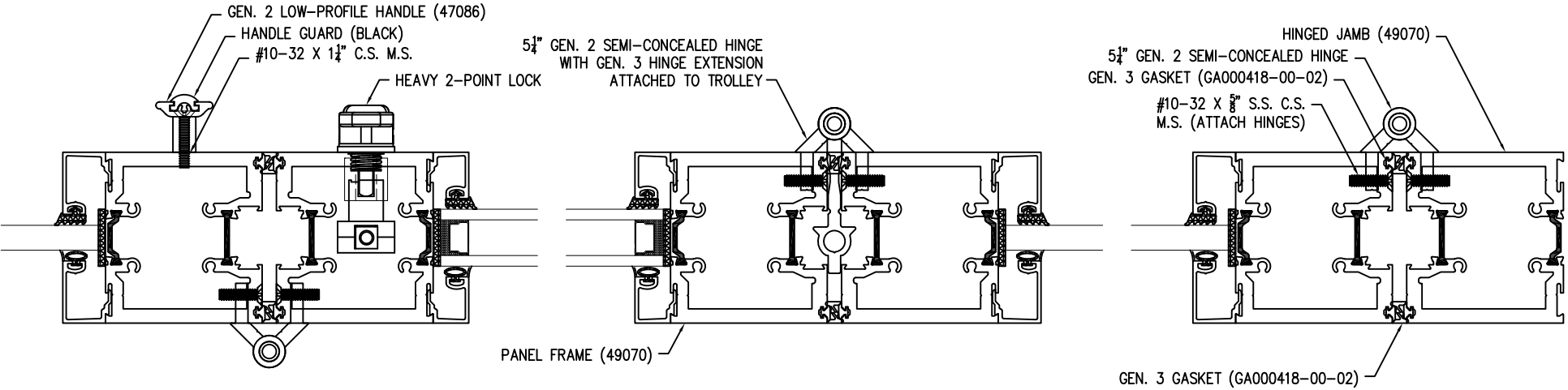
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434-688-0609 rllomas@lrlomaspe.com



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CONTINUED
FROM SHEET 5



HORIZONTAL CROSS SECTION

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CROSS SECTIONS

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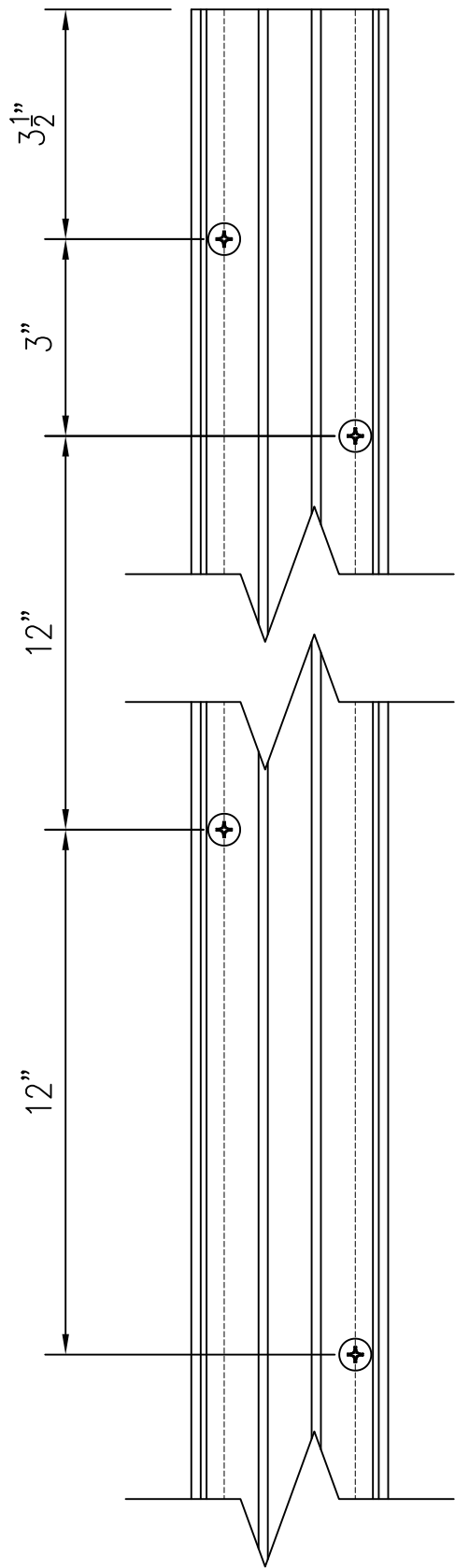
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SHEET 6 OF 10

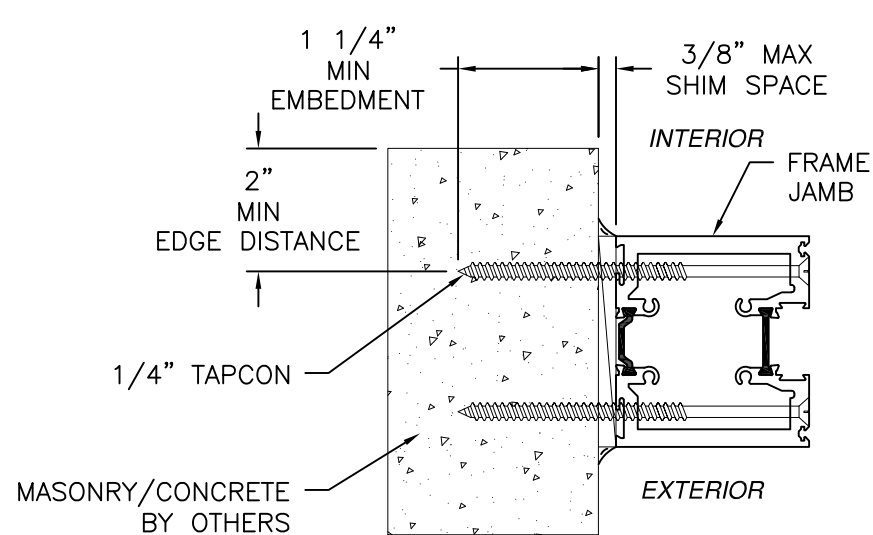
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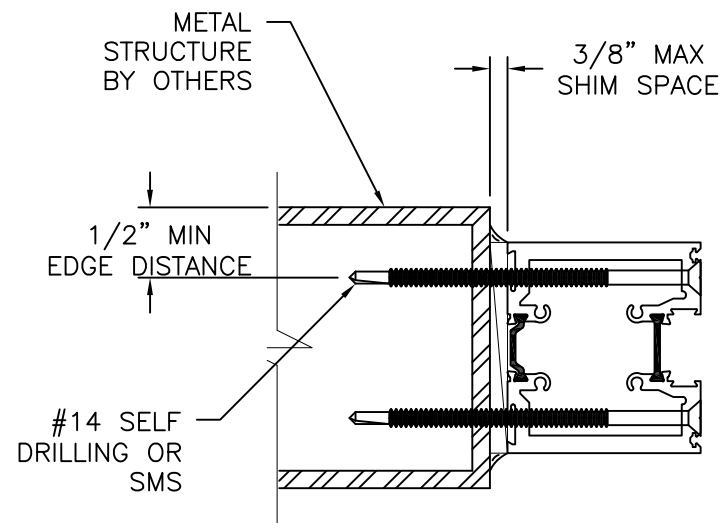
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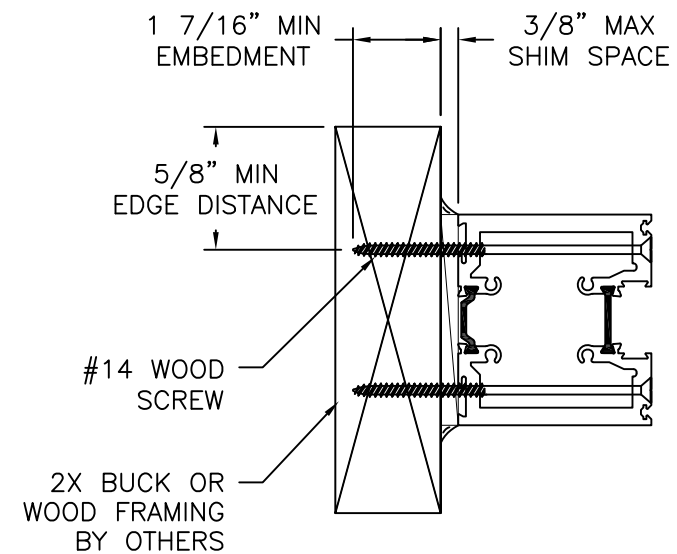
JAMB ANCHOR LOCATIONS
DETAIL



JAMB INSTALLATION DETAIL
MASONRY/CONCRETE



JAMB INSTALLATION DETAIL
METAL STRUCTURE

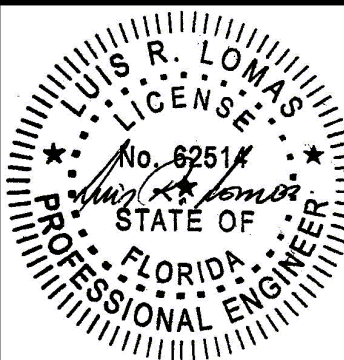


JAMB INSTALLATION DETAIL
2X BUCK OR WOOD FRAMING

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

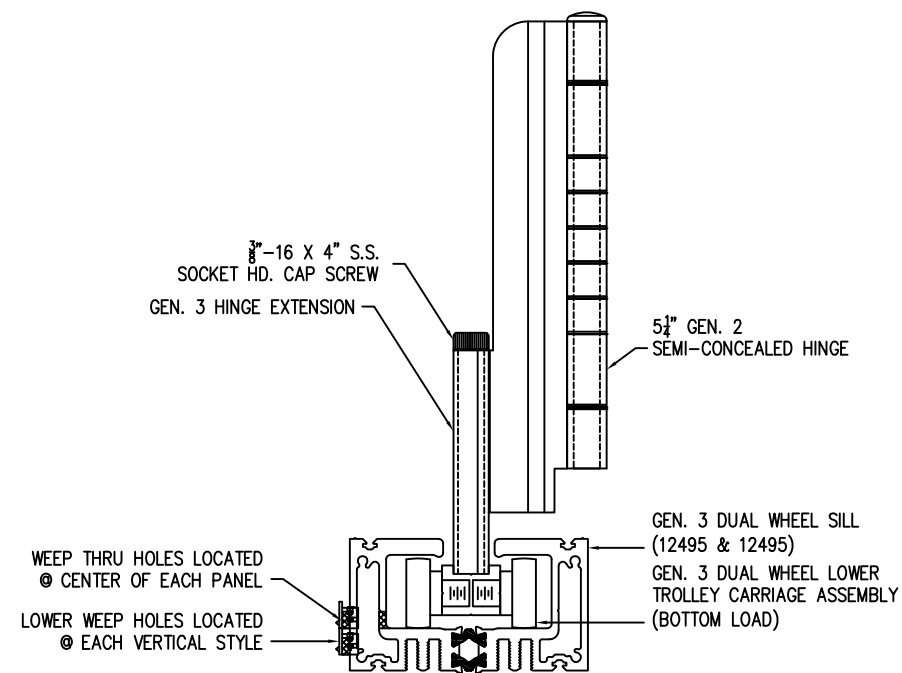
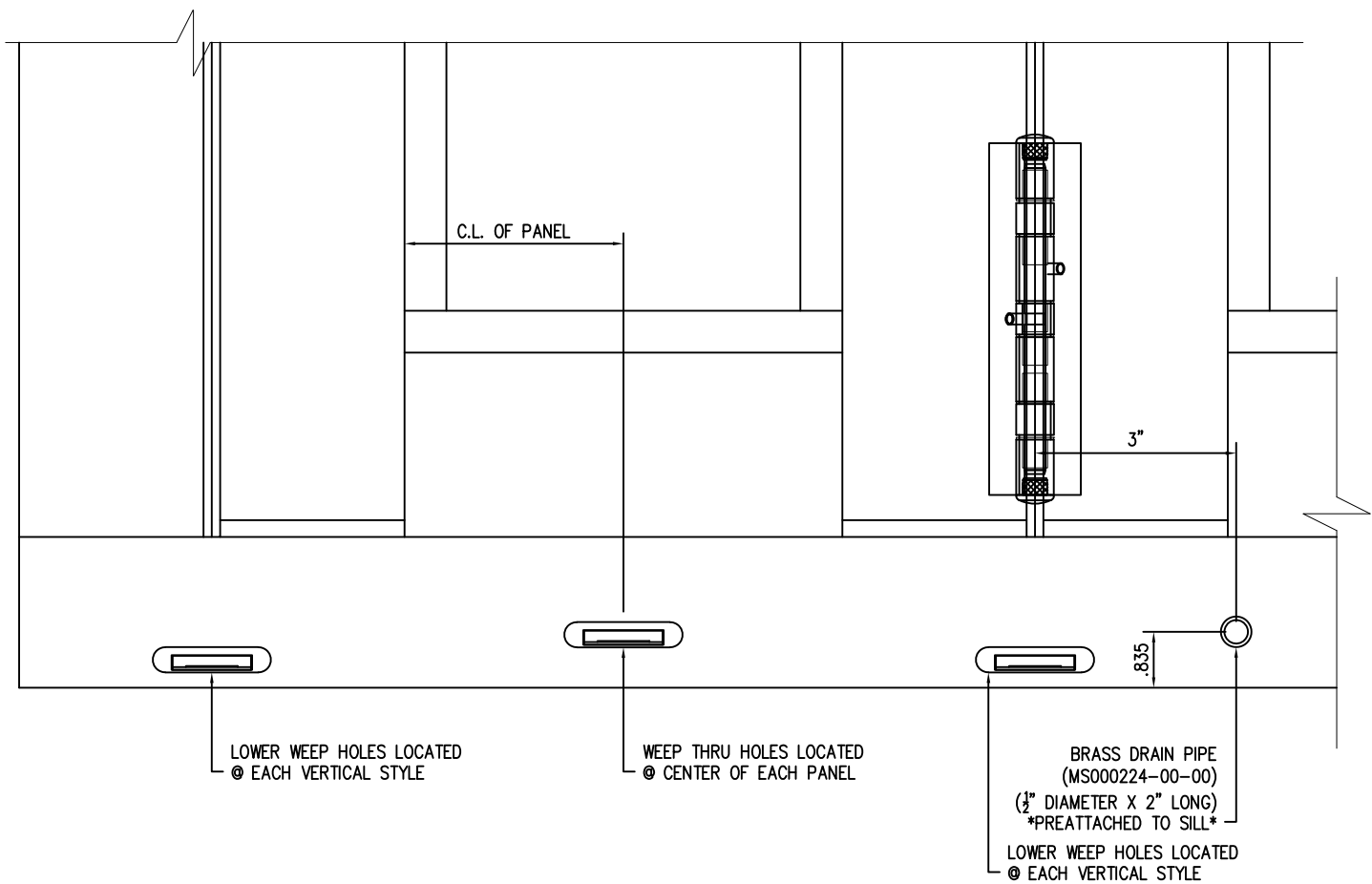
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SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 G3 FGW 3.5x9.5 PANEL 90° CORNER NO POST – FLUSH SILL NON-IMPACT INSTALLATION DETAILS		
DRAWN: J.L.	DWG NO. 08-01986D	REV D
SCALE NTS	DATE 04/22/13	SHEET 8 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

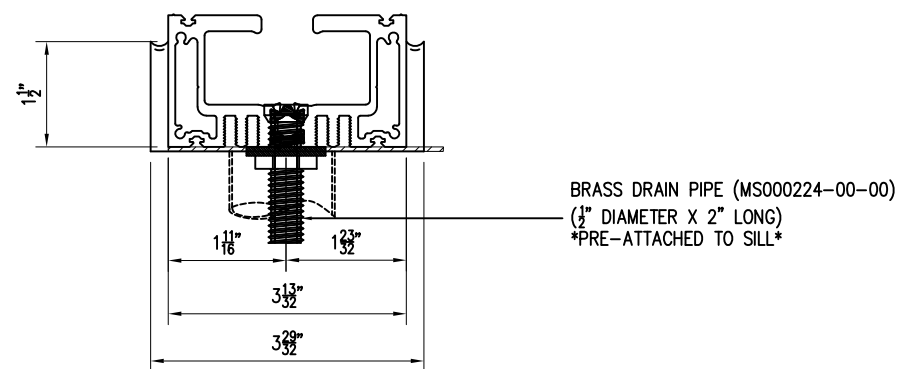


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WEEP HOLES LOCATION DETAILS



DRAIN PIPE DETAIL

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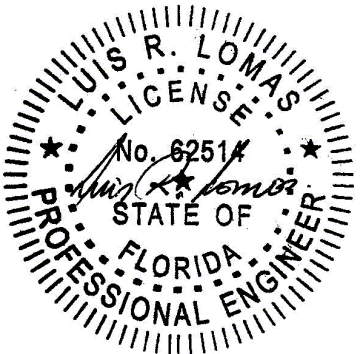
DATE 04/22/13

SHEET 9 OF 10

L. ROBERTO LOMAS P.E.

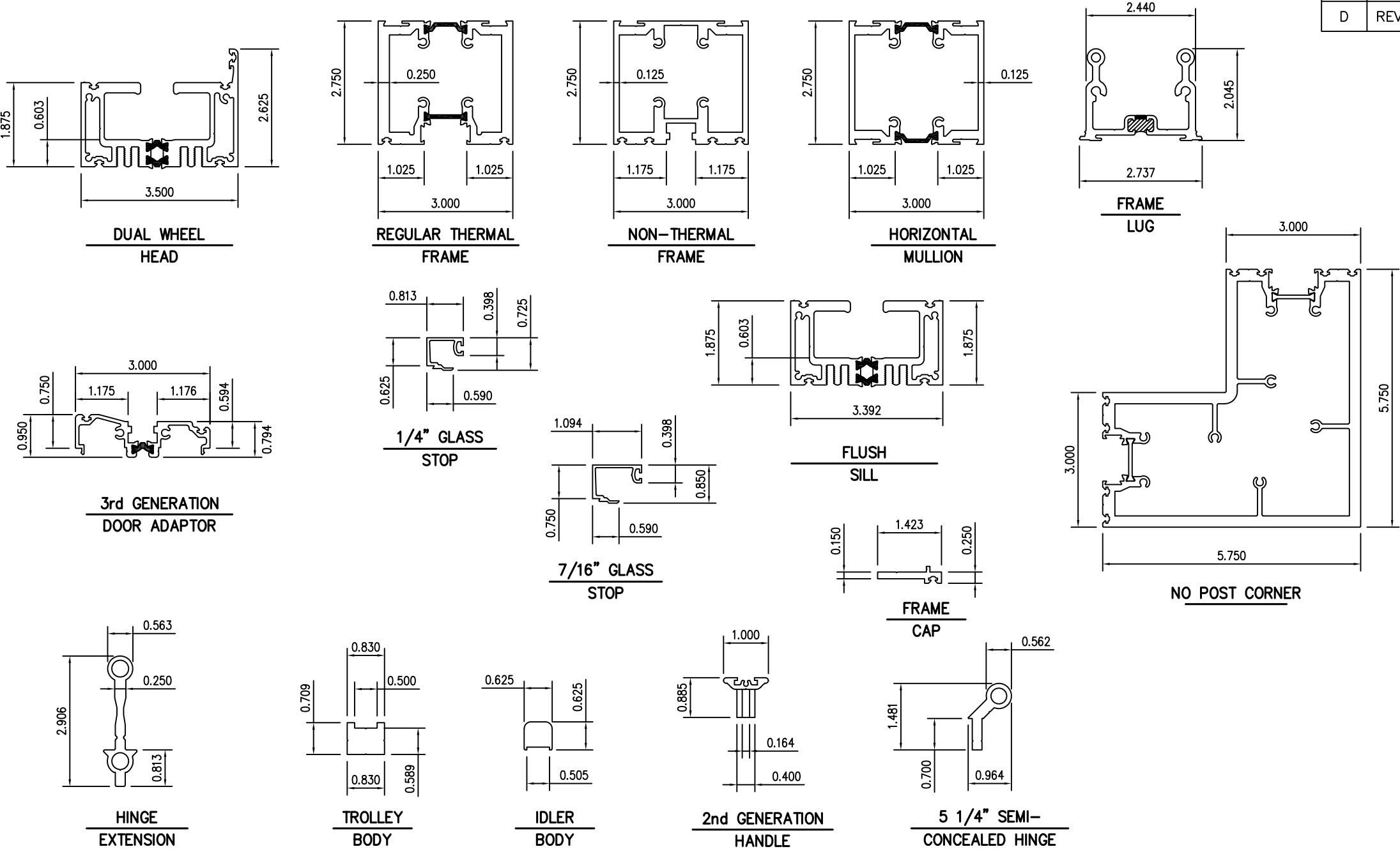
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NO POST – FLUSH SILL NON-IMPACT COMPONENTS

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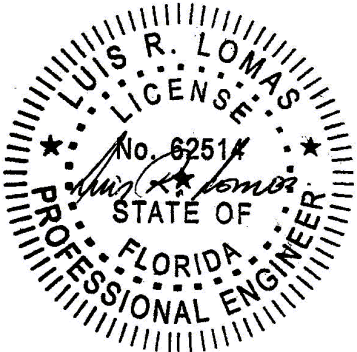
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