

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
F	REVISED PER NEW REQUIREMENTS	12/05/2023	R.L.

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
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, 6063-T5 AND 6005A-T5.
7. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 6 FOR GLASS DETAILS.
8. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT 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 3/4" 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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SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 G3 IMPACT FGW 3.5 X 9.5 PANEL
90° CORNER NO-POST – FLUSH SILL
NOTES

DRAWN:
V.L.

DWG NO.
08-01863

REV
F

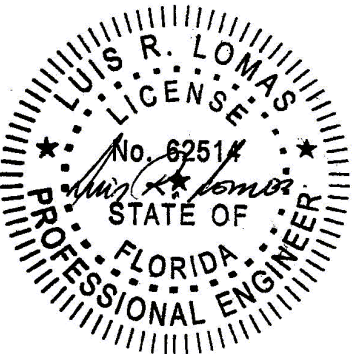
SCALE NTS

DATE 12/03/12

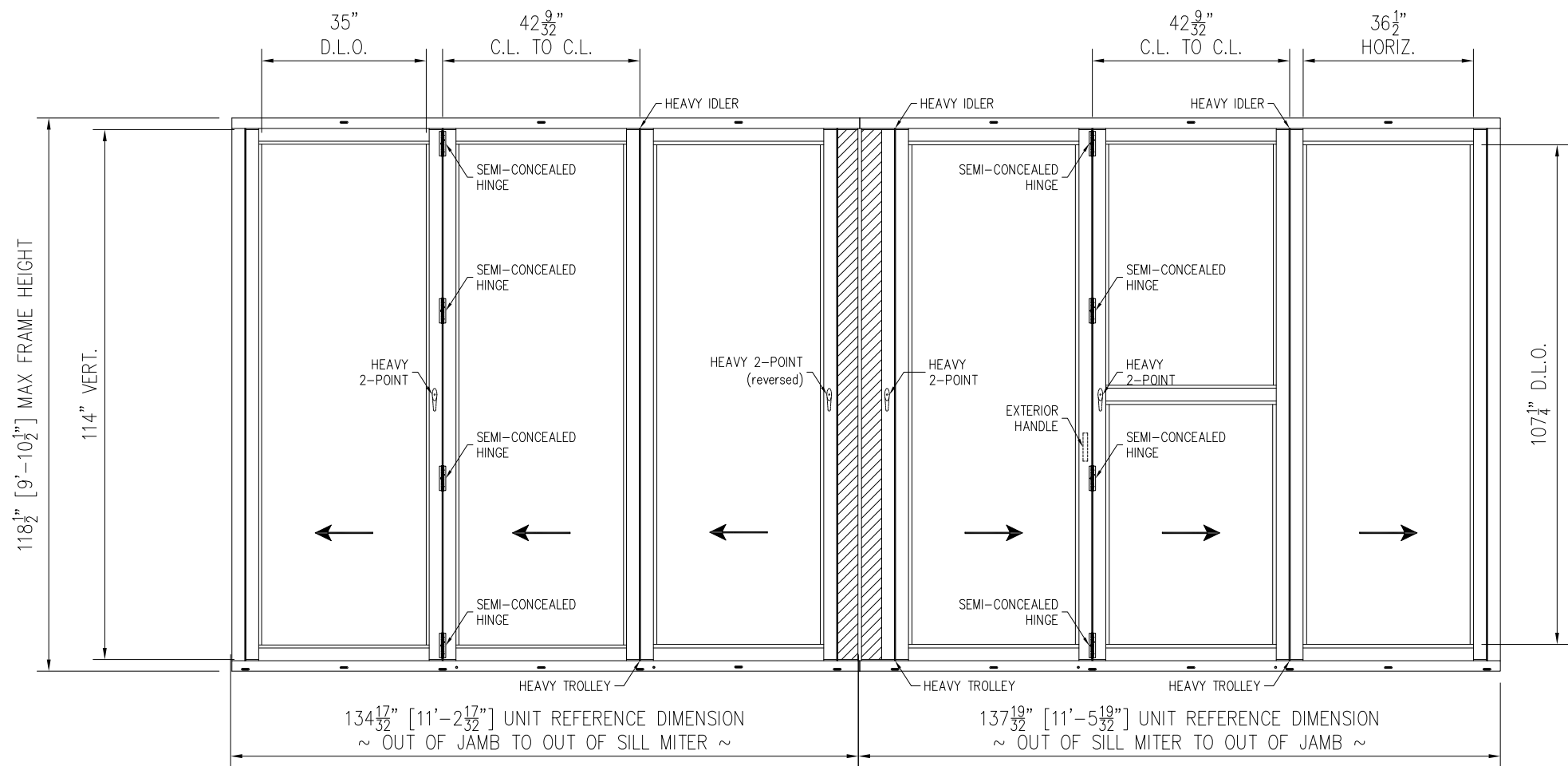
SHEET 1 OF 10

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434-688-0609 rllomas@lrlomaspe.com

SIGNED: 12/12/2023



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



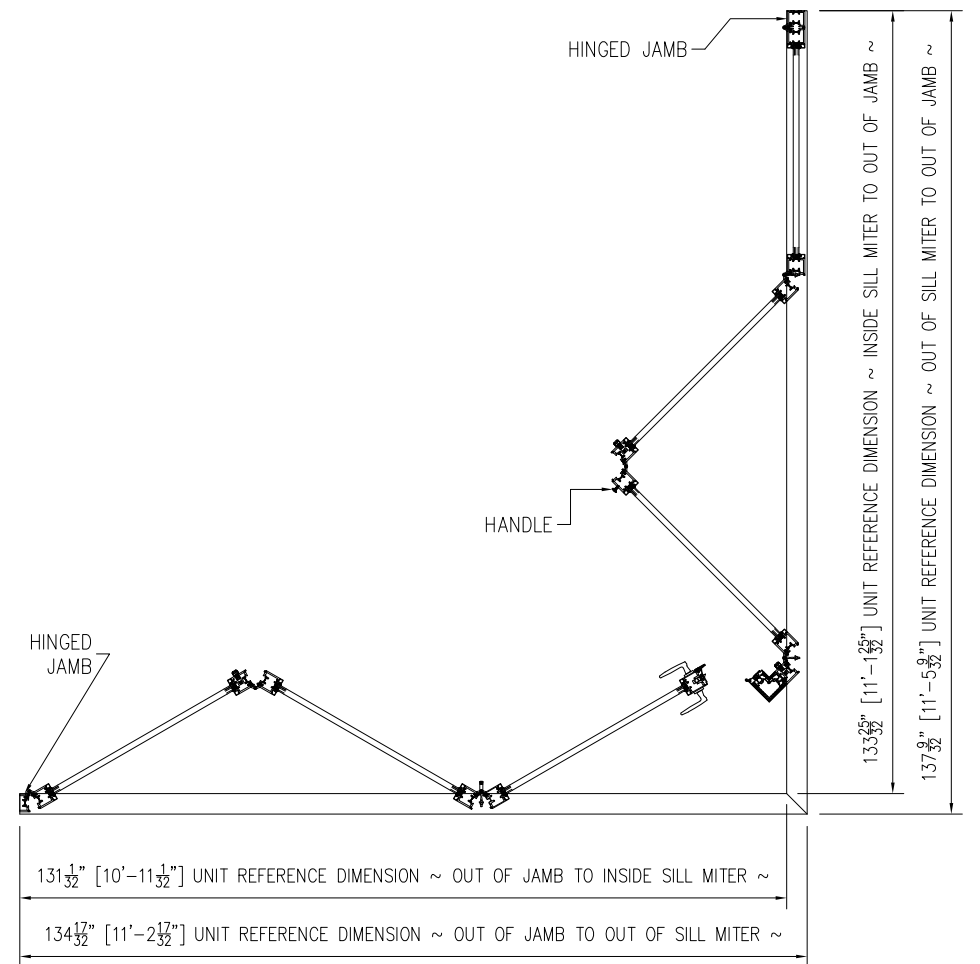
SERIES SI3000 G3 IMPACT FGW 3.5X9.5 PANEL 90° CORNER NO-POST - FLUSH SILL

EXTERIOR VIEW

UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATION ARE APPROVED
AS LONG AS INDIVIDUAL PANEL AREA DOES NOT EXCEED 33.3 FT² AND USES VERTICAL CONDITIONS AS SHOWN.

DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
SEE CHART #1 THIS SHEET



SI 33350 G3 IMPACT FGW 3.5X9.5 PANEL 90° CORNER NO-POST - FLUSH SILL

PLAN VIEW

- NOTES:
- PANEL SIZE: 42 9/32" x 114"
 - D.L.O. SIZE: 35" 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	80.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	70.8
84.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	74.6	60.0	65.7
90.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	69.7	60.0	61.4
96.0	60.0	80.0	60.0	80.0	60.0	76.7	60.0	65.3	57.5	57.5
102.0	60.0	80.0	60.0	80.0	60.0	71.4	60.0	61.5	-	-
108.0	60.0	80.0	60.0	77.4	60.0	66.6	58.1	58.1	-	-
114.0	60.0	80.0	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	-	-	-	-	-	-

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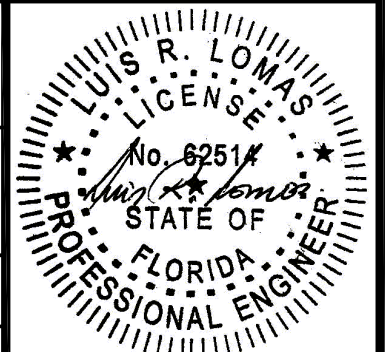
31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 G3 IMPACT FGW 3.5 X 9.5 PANEL
90° CORNER NO-POST - FLUSH SILL
ELEVATIONS AND DESIGN PRESSURE CHART

DRAWN:	DWG NO.	REV
V.L.	08-01863	F
SCALE NTS	DATE 12/03/12	SHEET 2 OF 10

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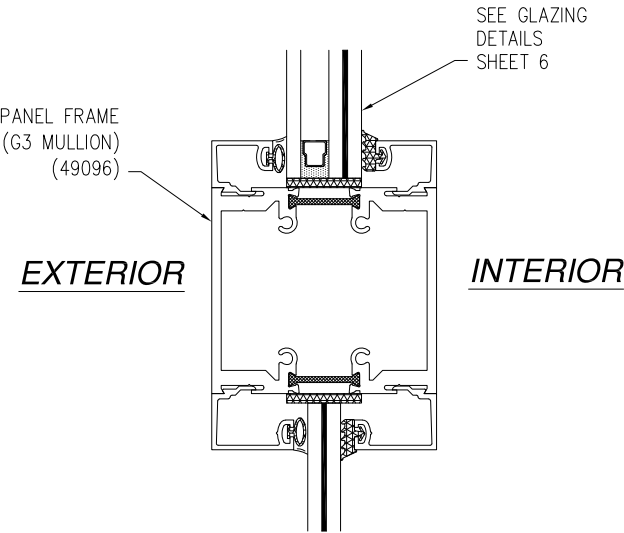
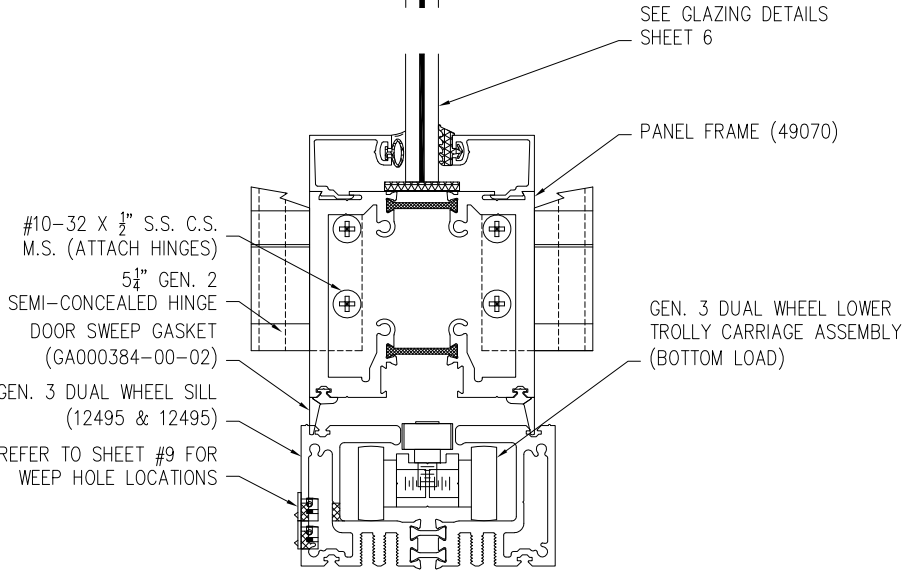
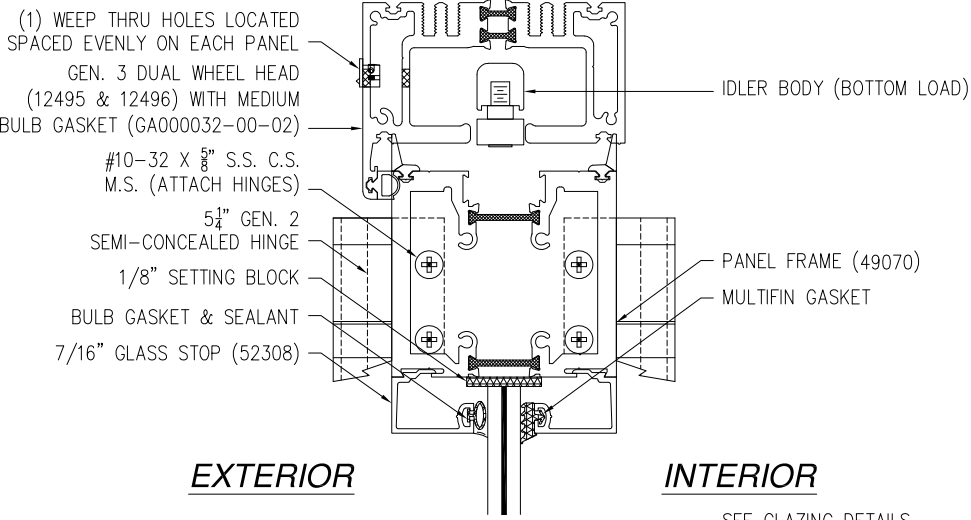
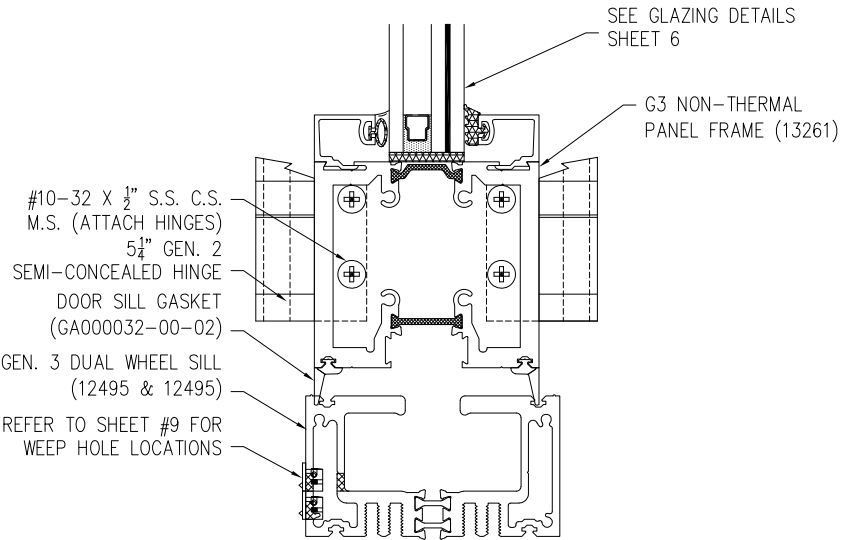
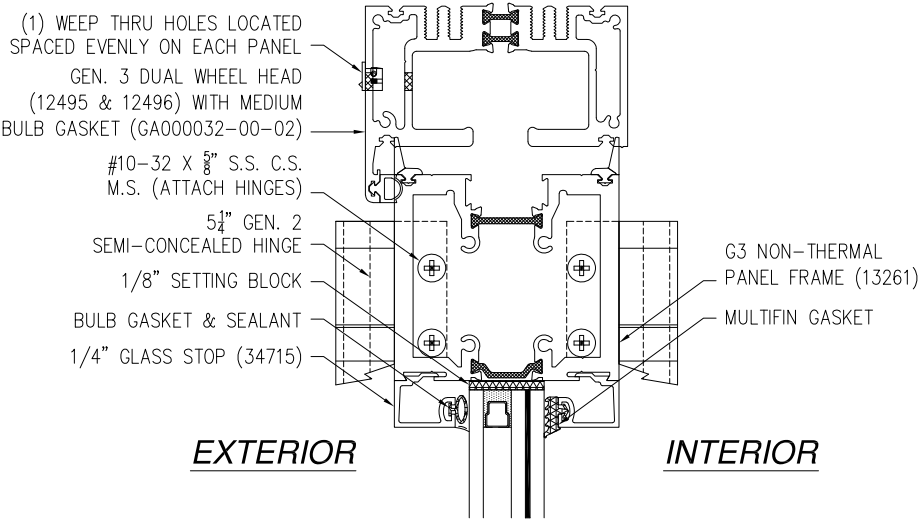
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FOR INSTALLATION DETAILS REFER TO SHEETS 7 - 9

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VERTICAL CROSS SECTION
HORIZONTAL RAIL OPTIONAL

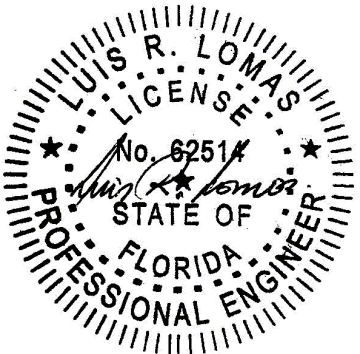
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90° CORNER NO-POST - FLUSH SILL
CROSS SECTIONS

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SCALE NTS	DATE 12/03/12	SHEET 4 OF 10

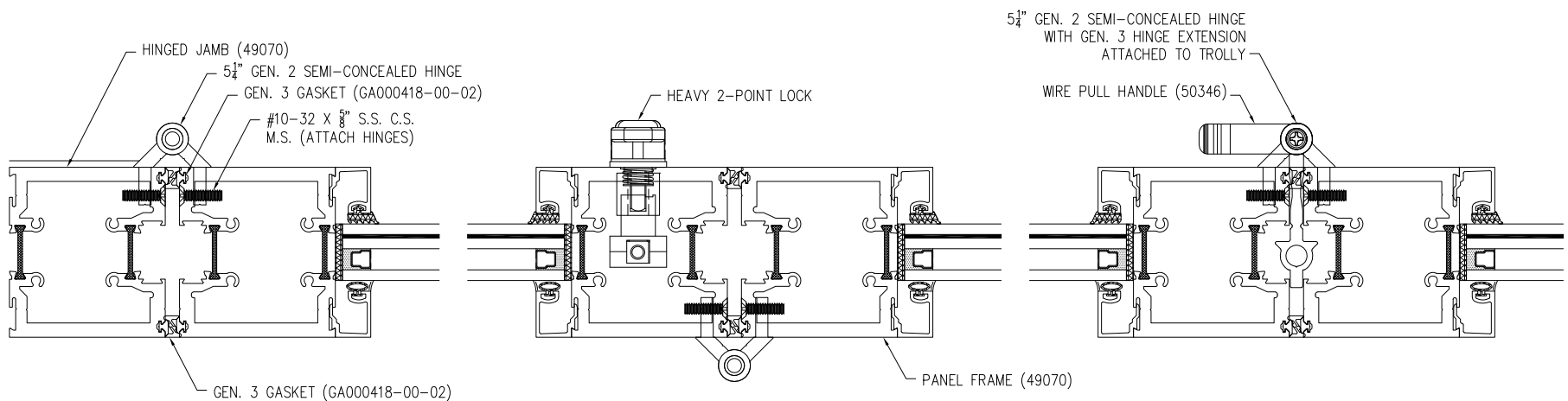
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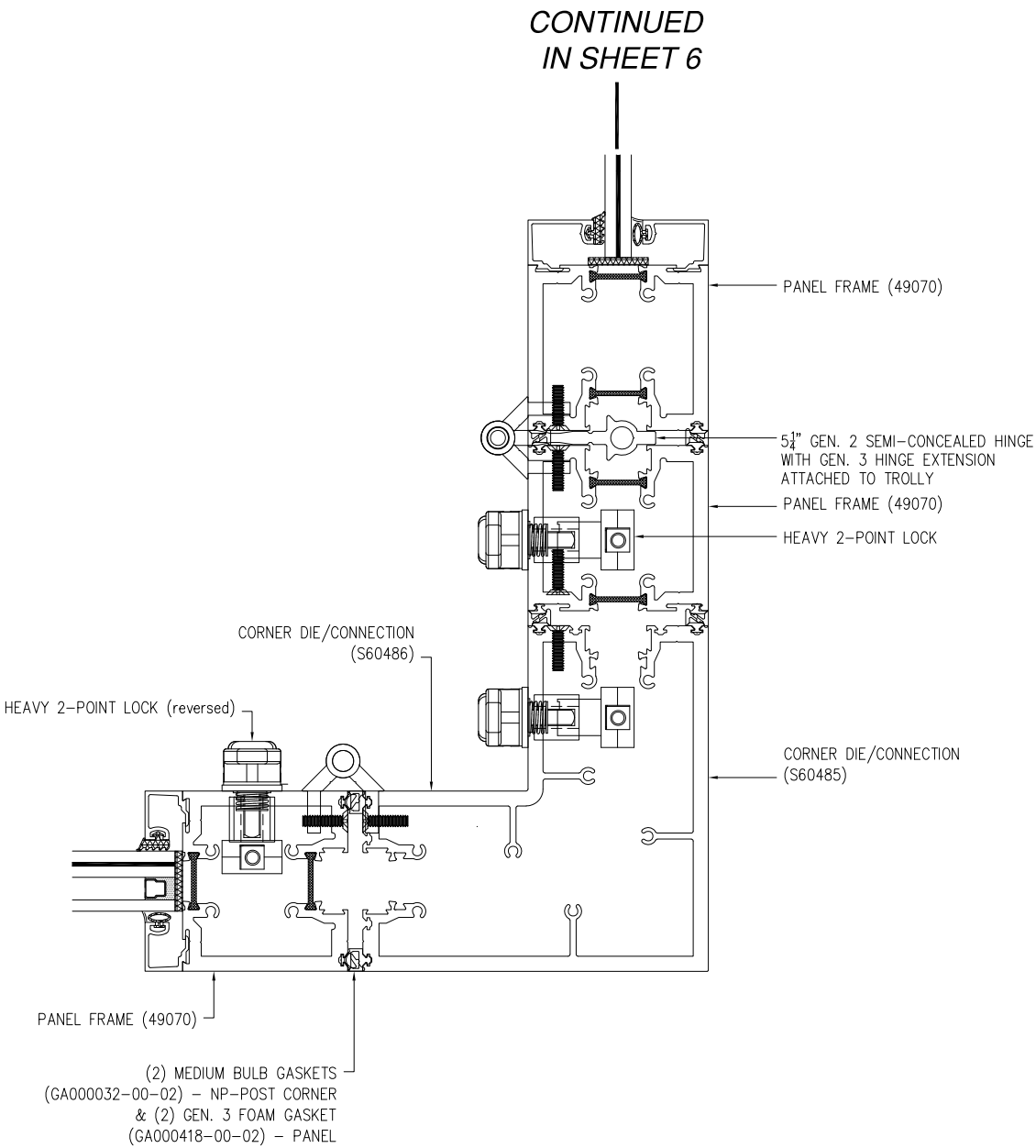
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HORIZONTAL CROSS SECTION



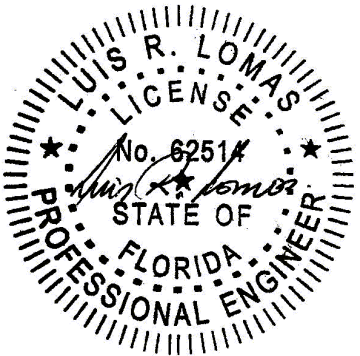
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31 ROBERTS RD
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CROSS SECTIONS

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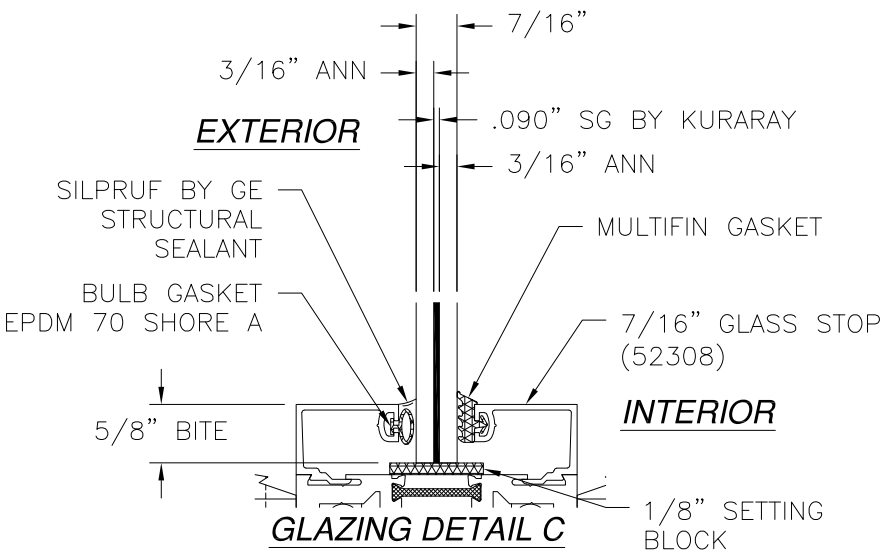
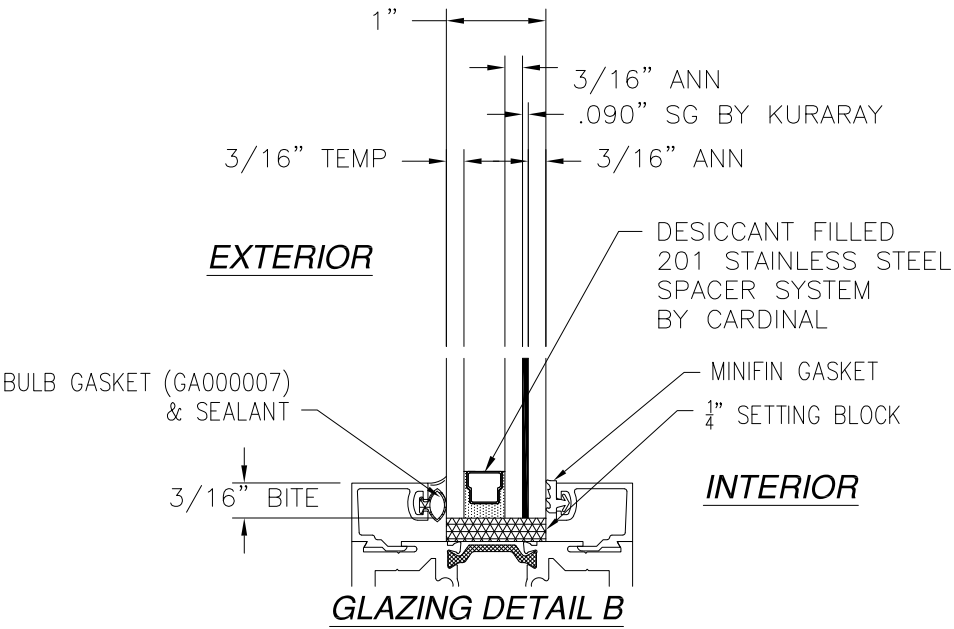
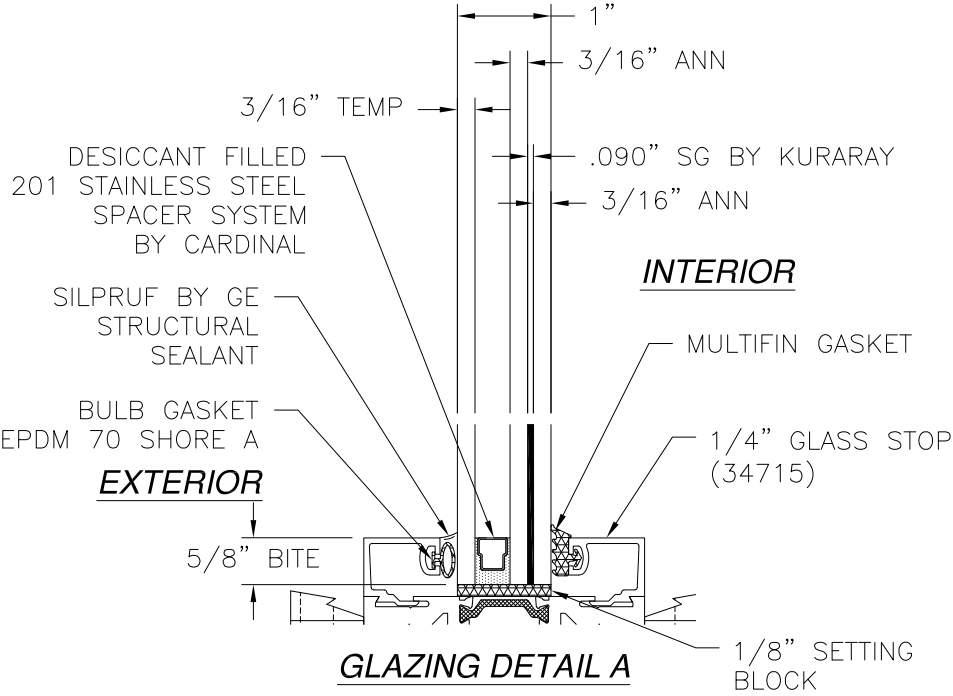
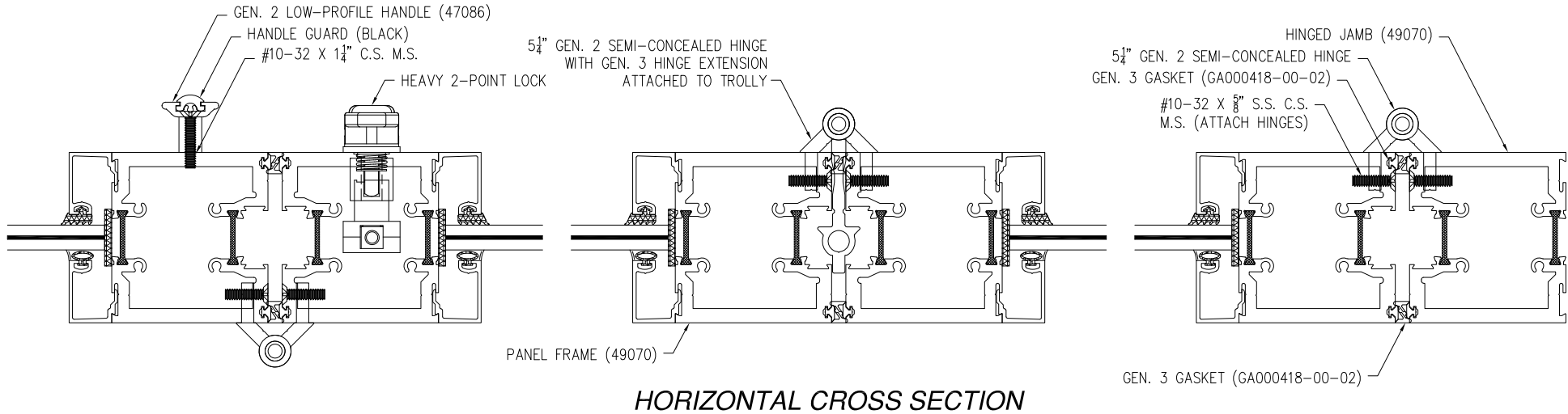


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CONTINUED
FROM SHEET 5



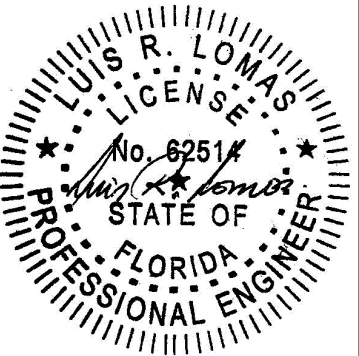
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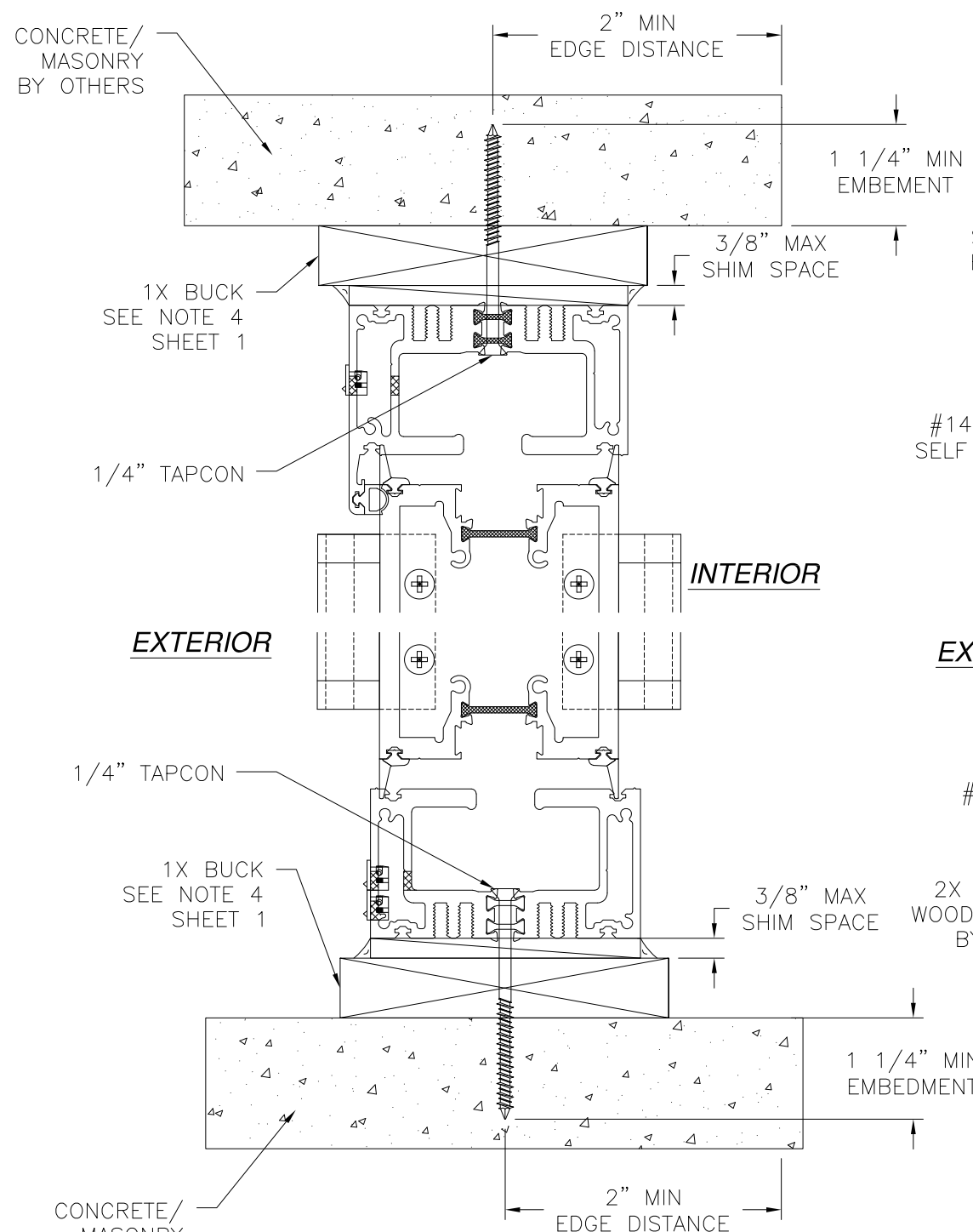
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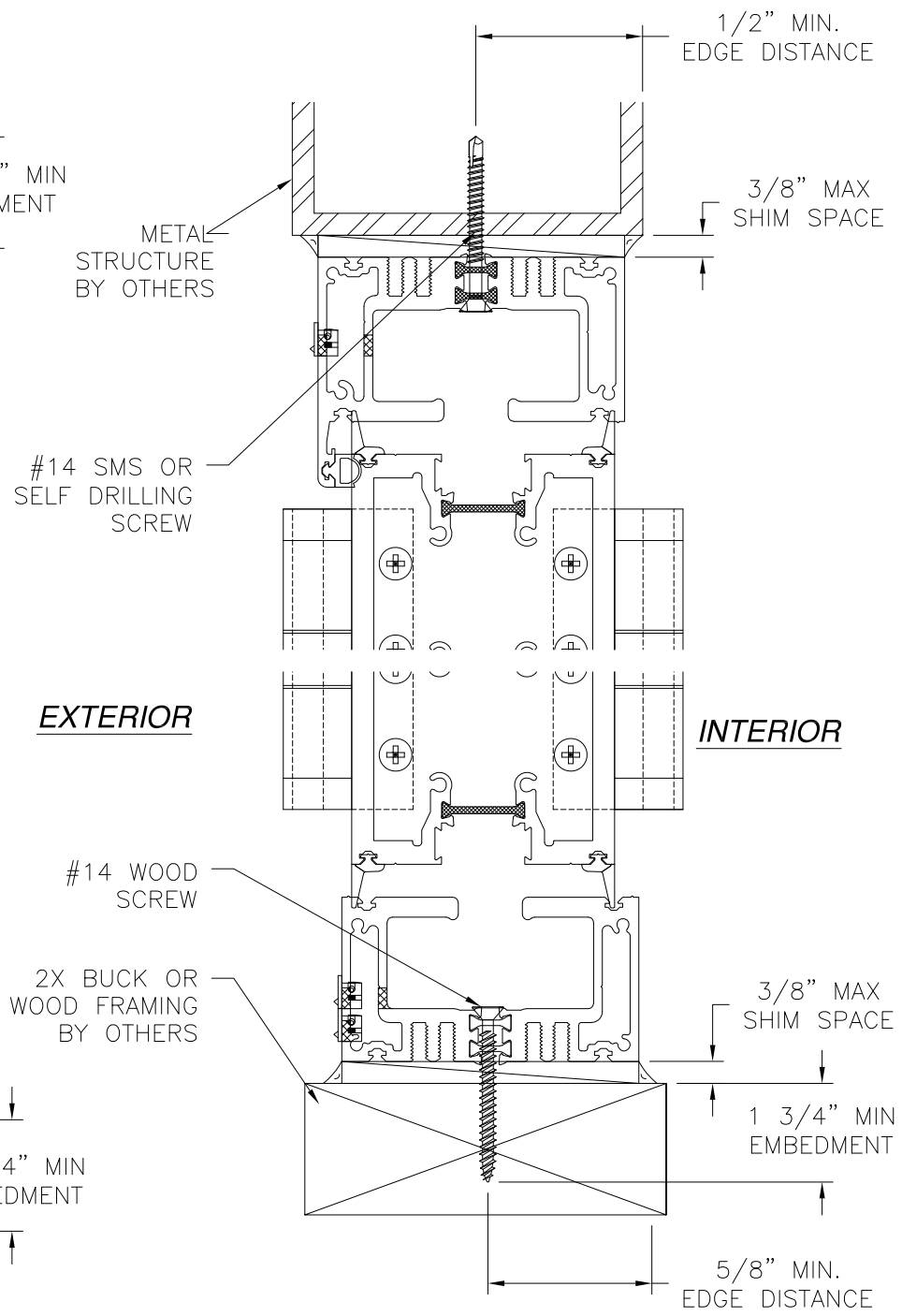


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VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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



VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK
OR METAL STRUCTURE INSTALLATION

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31 ROBERTS RD
PINE GROVE, PA 17963

SERIES SI3000 G3 IMPACT FGW 3.5 X 9.5 PANEL
90° CORNER NO-POST – FLUSH SILL
INSTALLATION DETAIL

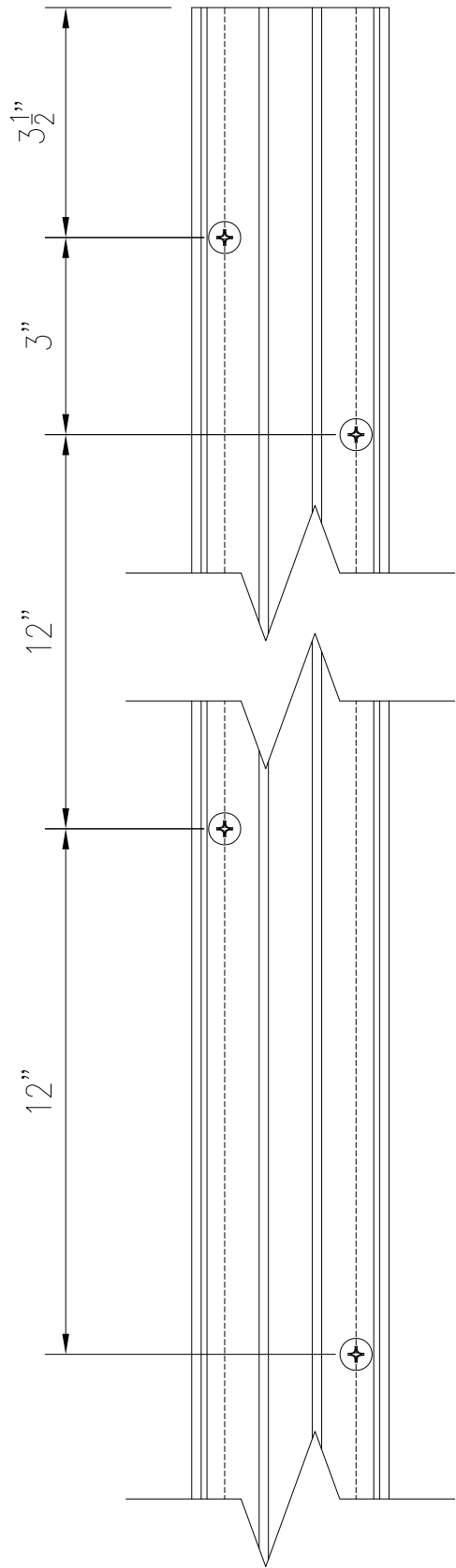
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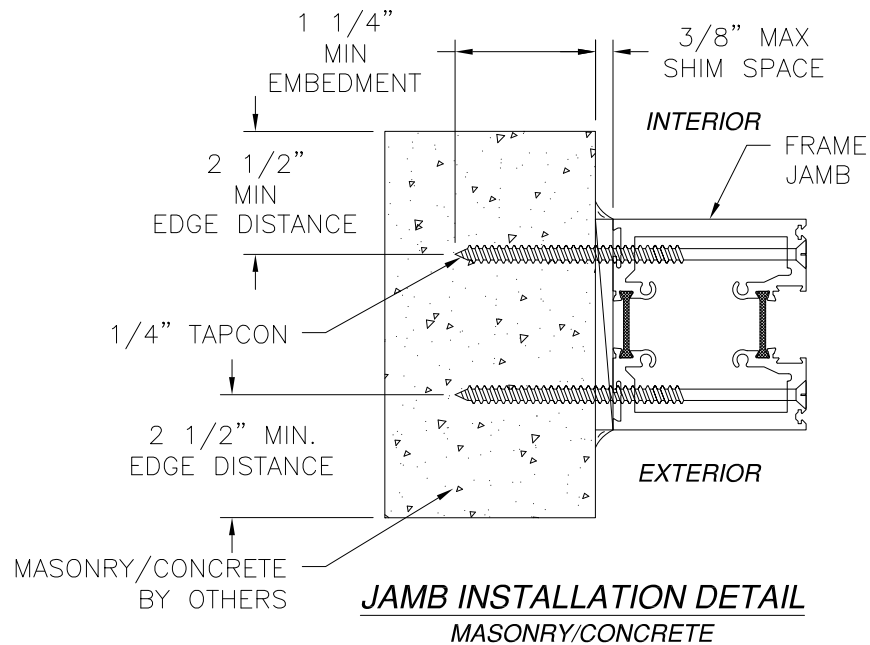
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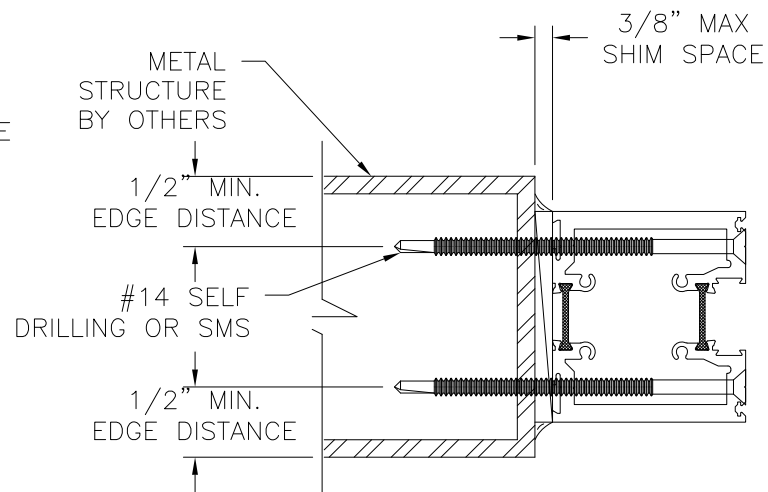
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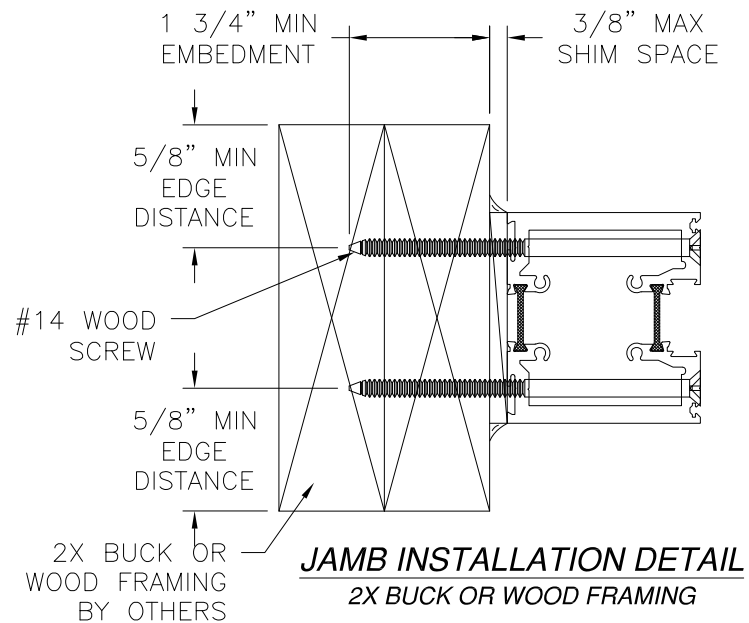
**JAMB ANCHOR LOCATIONS
DETAIL**



**JAMB INSTALLATION DETAIL
MASONRY/CONCRETE**



**JAMB INSTALLATION DETAIL
METAL STRUCTURE**

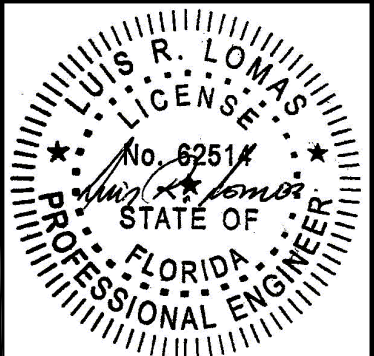


**JAMB INSTALLATION DETAIL
2X BUCK OR WOOD FRAMING**

- NOTES:**
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2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE
DESIGNED IN ACCORDANCE WITH ASTM E2112

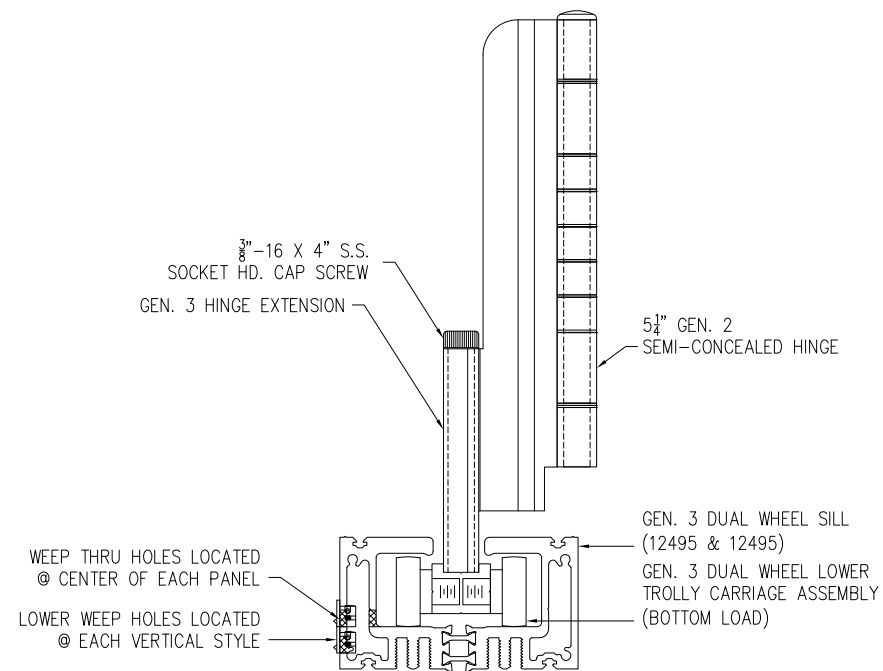
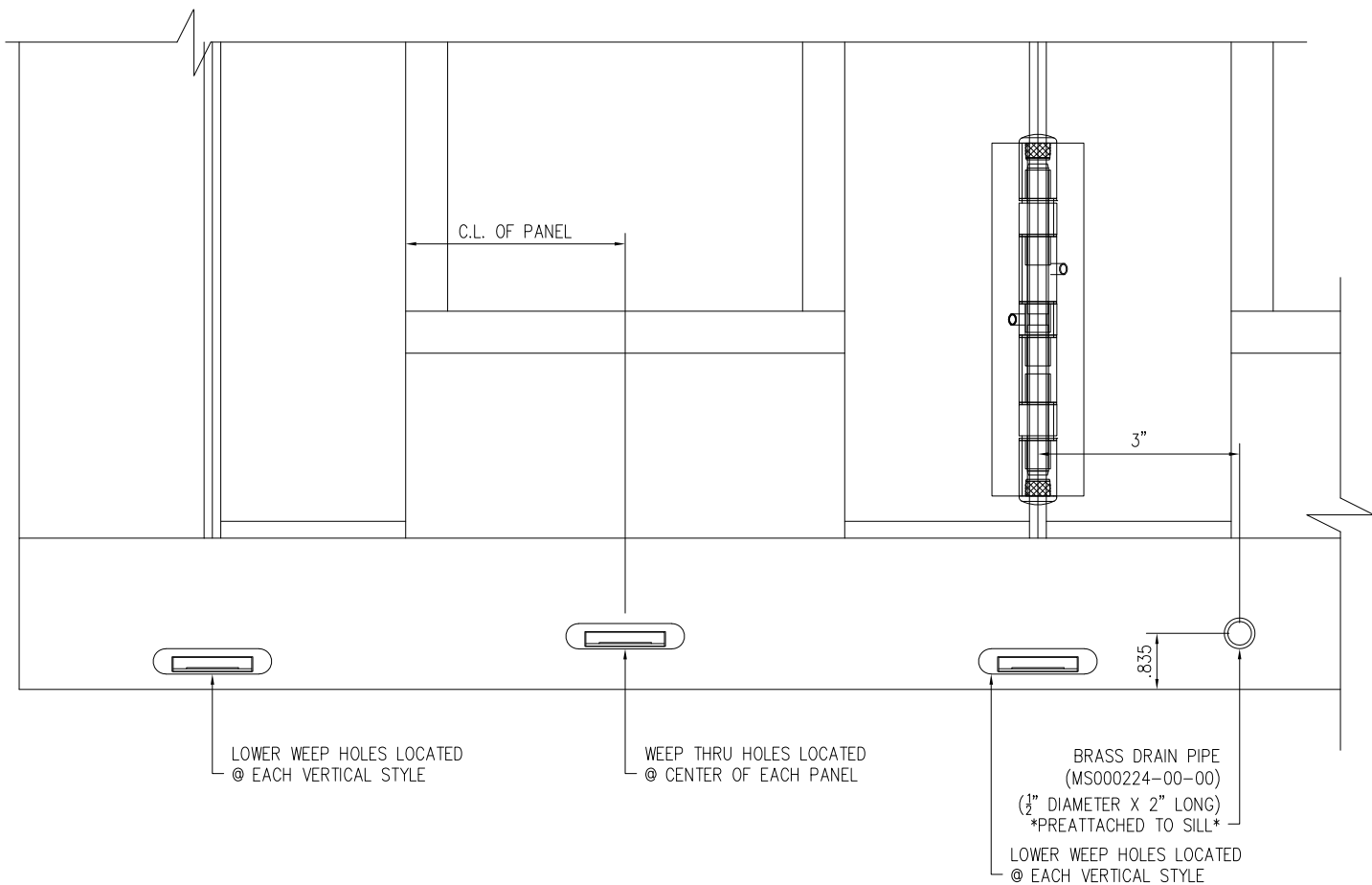
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SOLAR INNOVATIONS, INC. 31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 G3 IMPACT FGW 3.5 X 9.5 PANEL 90° CORNER NO-POST - FLUSH SILL INSTALLATION DETAIL		
DRAWN: V.L.	DWG NO. 08-01863	REV F
SCALE NTS	DATE 12/03/12	SHEET 8 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

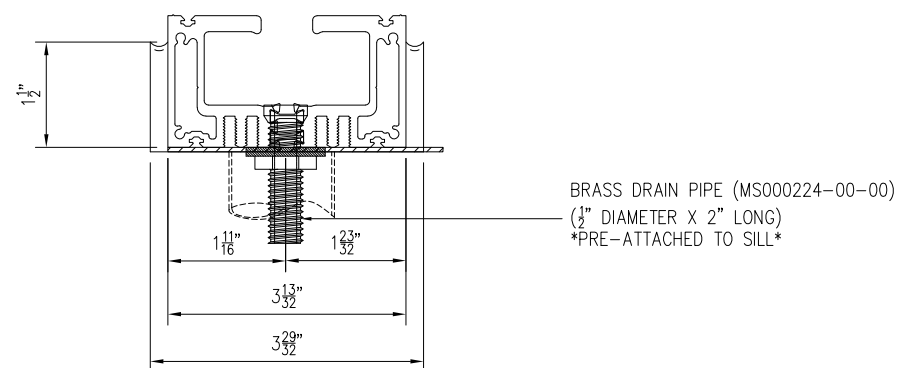


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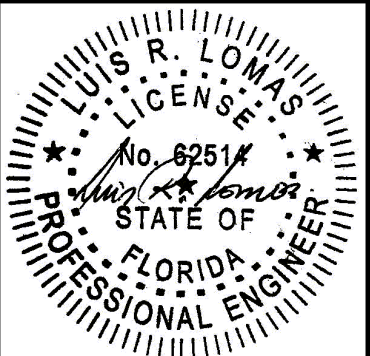
WEEP HOLES LOCATION DETAILS



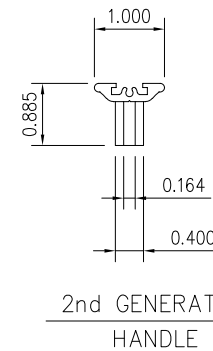
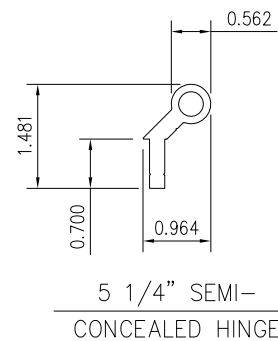
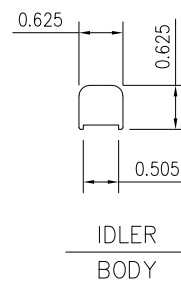
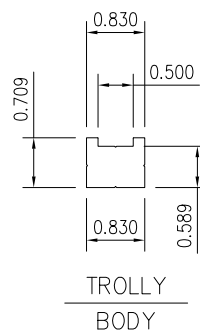
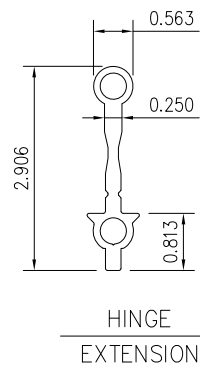
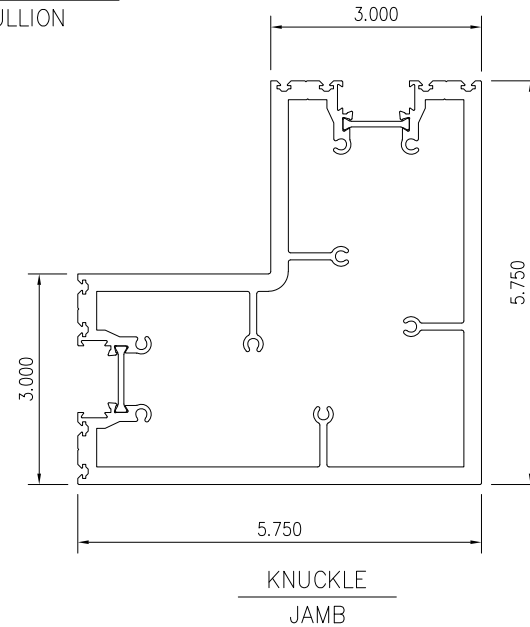
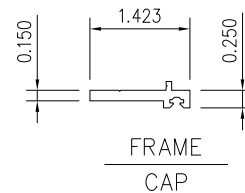
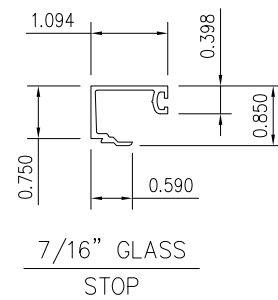
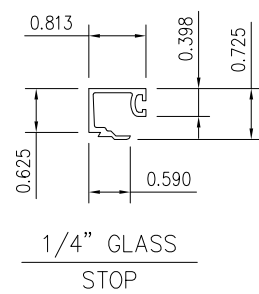
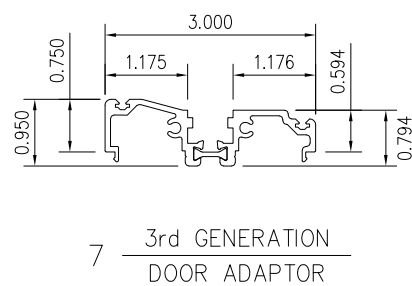
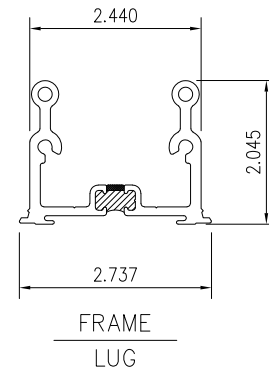
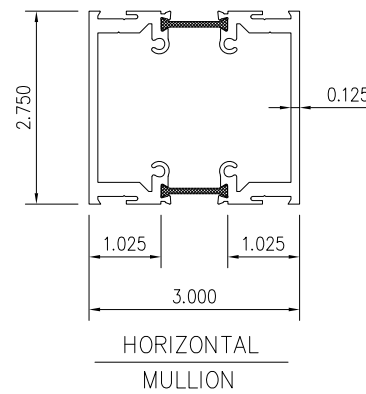
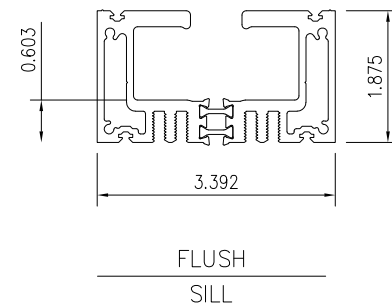
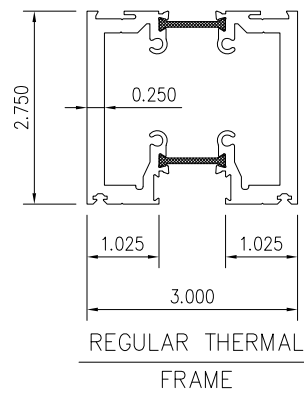
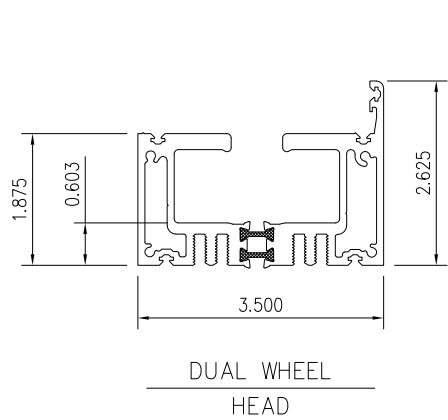
DRAIN PIPE DETAIL

SOLAR INNOVATIONS, INC.		
31 ROBERTS RD PINE GROVE, PA 17963		
SERIES SI3000 G3 IMPACT FGW 3.5 X 9.5 PANEL 90° CORNER NO-POST – FLUSH SILL WEEP HOLES DETAILS		
DRAWN: V.L.	DWG NO. 08-01863	REV F
SCALE NTS	DATE 12/03/12	SHEET 9 OF 10
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

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COMPONENTS

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SHEET 10 OF 10

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PROFESSIONAL ENGINEER
L. ROBERTO LOMAS
No. 62514
STATE OF FLORIDA

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