

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 7 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 – STANDARD SILL
NOTES

DRAWN:
V.L.

DWG NO.
08-01862

REV
F

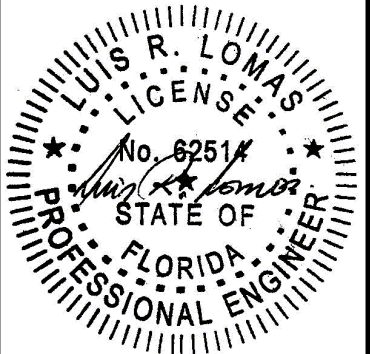
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DATE 12/03/12

SHEET 1 OF 15

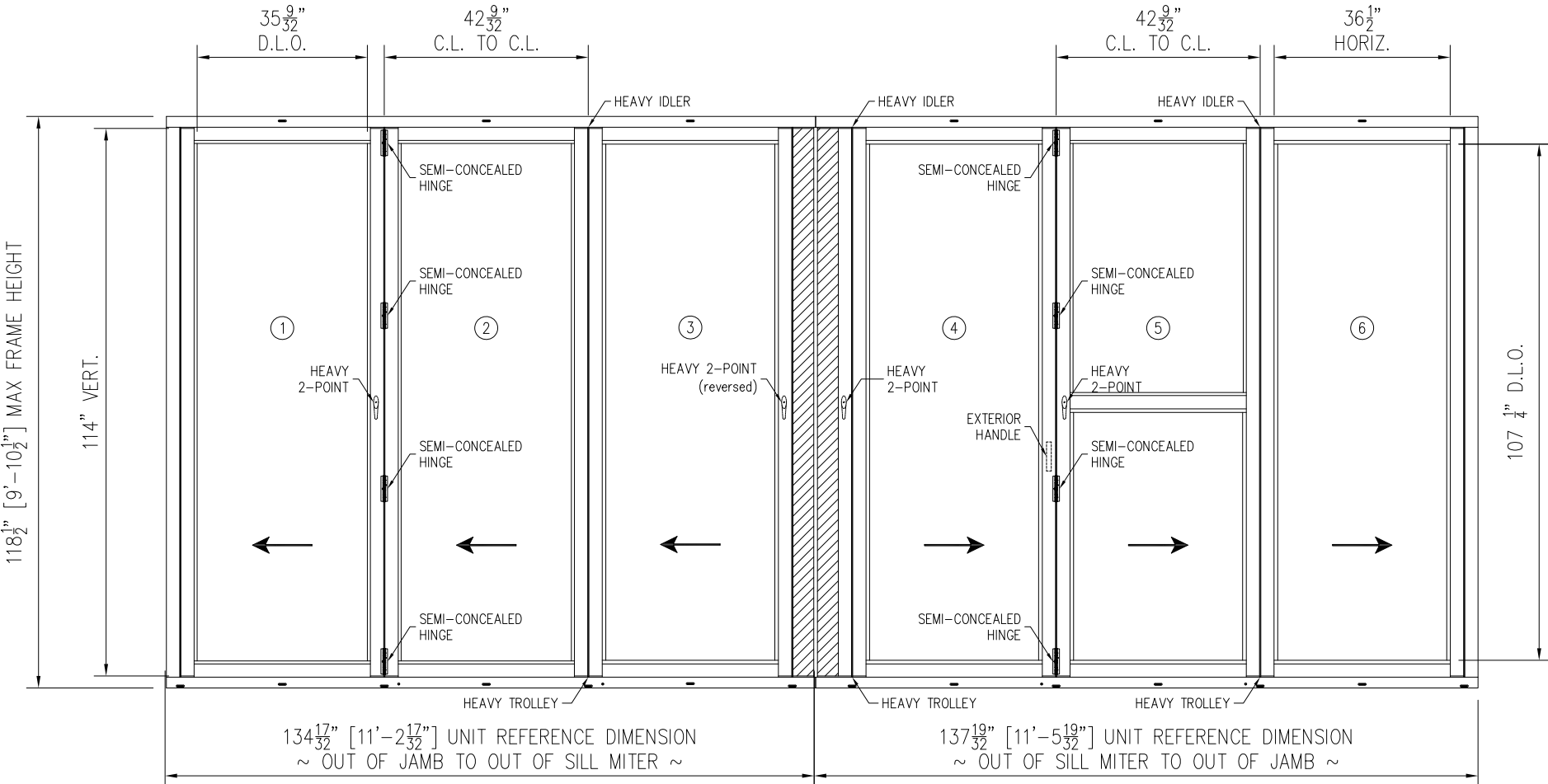
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SIGNED: 12/12/2023



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

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SERIES SI3000 G3 IMPACT FGW 3.5X9.5 PANEL 90° CORNER NO-POST - STANDARD 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
+60.0PSF/-80.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WHERE WATER RESISTANCE IS REQUIRED
SEE CHART #1 SHEET 3

DESIGN PRESSURE RATING	IMPACT RATING
±80.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WHERE WATER RESISTANCE IS NOT REQUIRED
SEE CHART #2 SHEET 3

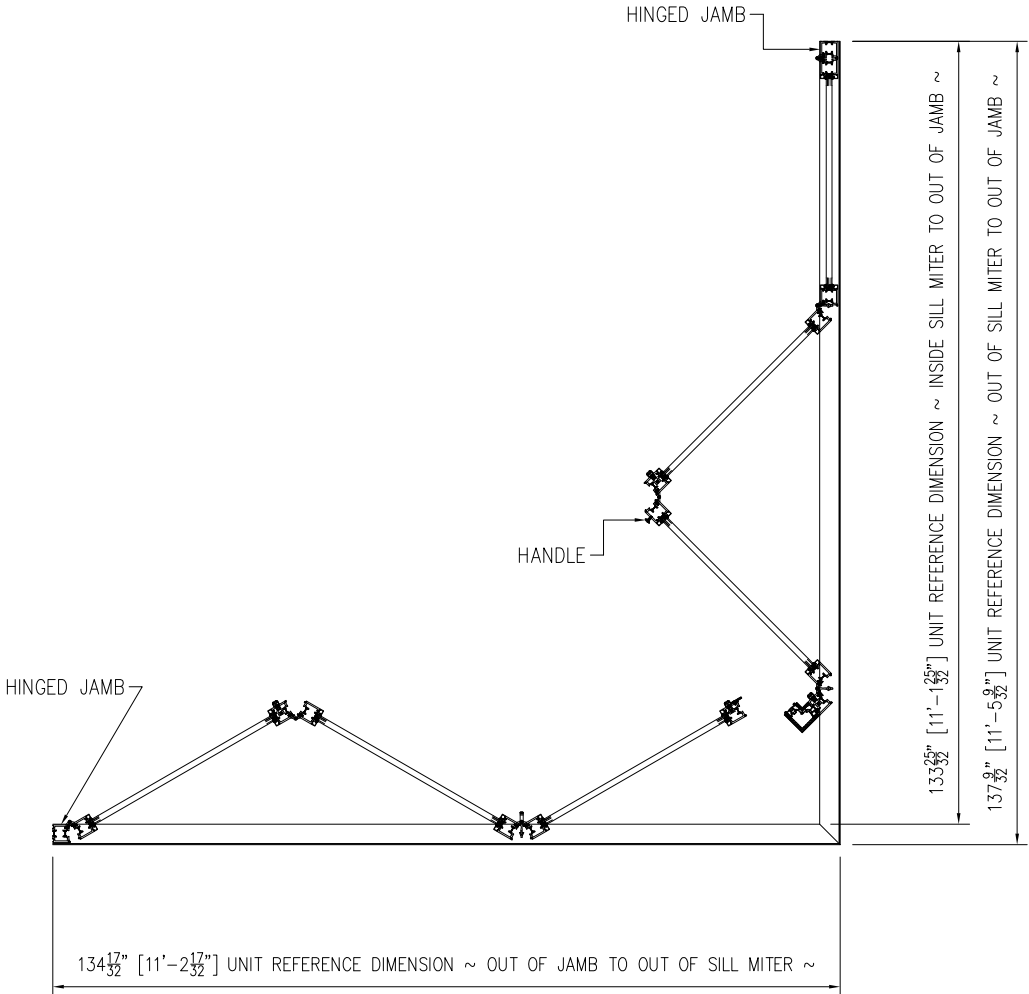
DESIGN PRESSURE RATING	IMPACT RATING
±55.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH NON-THERMAL PANELS
SEE CHART #3 SHEET 3

HARDWARE SCHEDULE

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

- NOTES:
1. PANEL SIZE: 42 9/32" x 114"
2. MAXIMUM D.L.O.: 35 9/32" x 107 1/4"



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

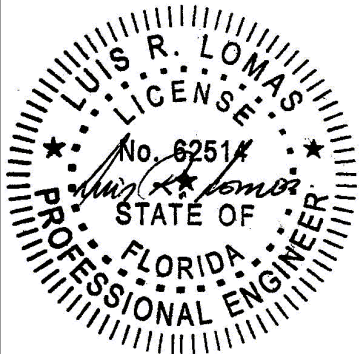
SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

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

DRAWN: V.L.	DWG NO. 08-01862	REV F
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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	80.0
84.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0
90.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0
96.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0
102.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0	-	-
108.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0	-	-
114.0	60.0	80.0	60.0	80.0	60.0	80.0	60.0	80.0	-	-
120.0	60.0	80.0	60.0	80.0	60.0	79.0	-	-	-	-
126.0	60.0	80.0	60.0	80.0	60.0	68.0	-	-	-	-
132.0	60.0	80.0	60.0	70.1	59.0	59.0	-	-	-	-
138.0	60.0	76.1	60.0	61.3	-	-	-	-	-	-
144.0	60.0	66.9	53.8	53.8	-	-	-	-	-	-
150.0	59.1	59.1	47.6	47.6	-	-	-	-	-	-
156.0	52.5	52.5	42.2	42.2	-	-	-	-	-	-

Chart #2

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	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
84.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
90.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
96.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0
102.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	-	-
108.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	-	-
114.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	-	-
120.0	80.0	80.0	80.0	80.0	79.0	79.0	-	-	-	-
126.0	80.0	80.0	80.0	80.0	68.0	68.0	-	-	-	-
132.0	80.0	80.0	70.1	70.1	59.0	59.0	-	-	-	-
138.0	76.1	76.1	61.3	61.3	-	-	-	-	-	-
144.0	66.9	66.9	53.8	53.8	-	-	-	-	-	-
150.0	59.1	59.1	47.6	47.6	-	-	-	-	-	-
156.0	52.5	52.5	42.2	42.2	-	-	-	-	-	-

Chart #3

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 – STANDARD SILL
DESIGN PRESSURE CHARTS

DRAWN:
V.L.

DWG NO.
08-01862

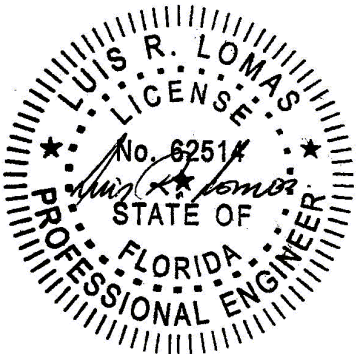
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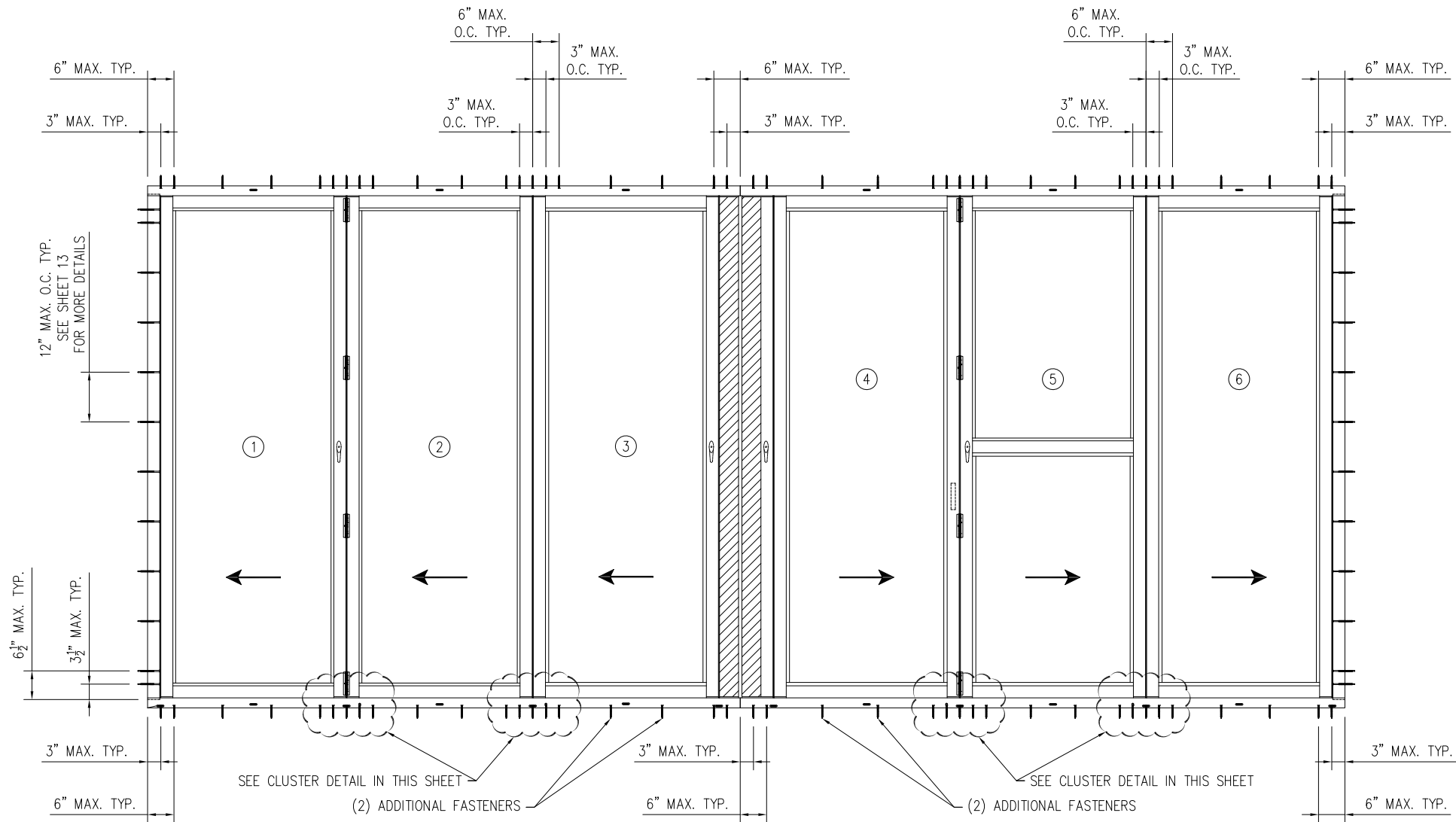
SHEET 3 OF 15

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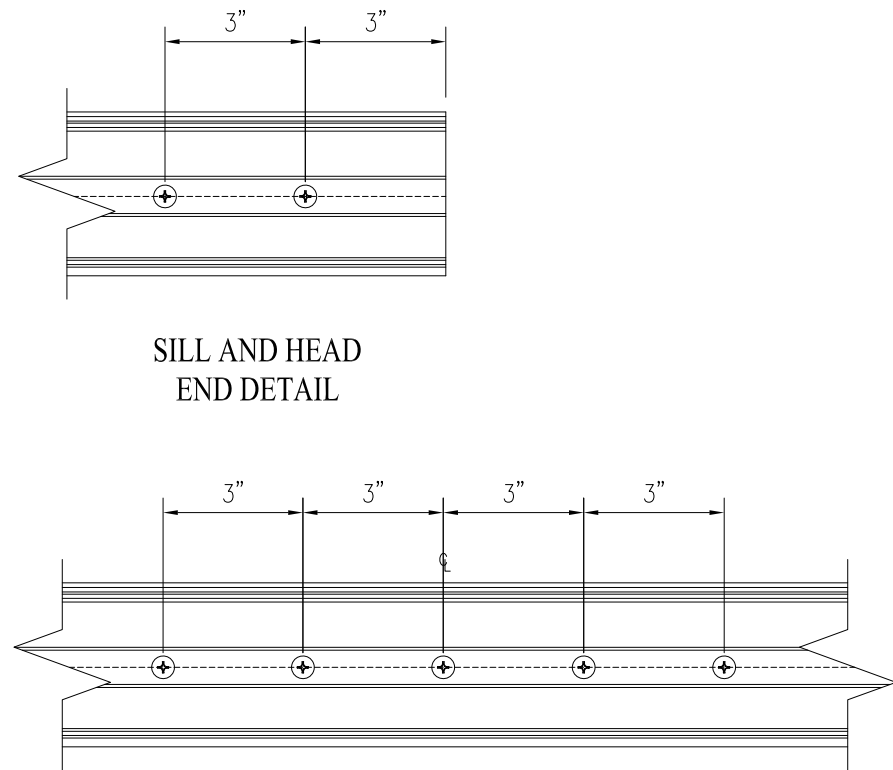


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ANCHOR LAYOUT
APPLICABLE TO ALL CONFIGURATIONS.



SILL AND HEAD
CLUSTER DETAIL

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90° CORNER NO-POST – STANDARD SILL
ANCHOR LAYOUT

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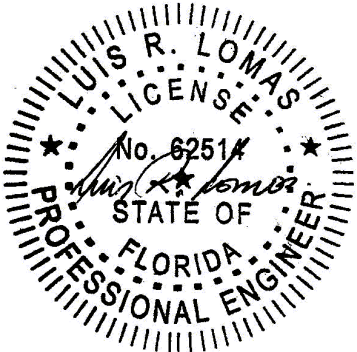
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SHEET
4 OF 15

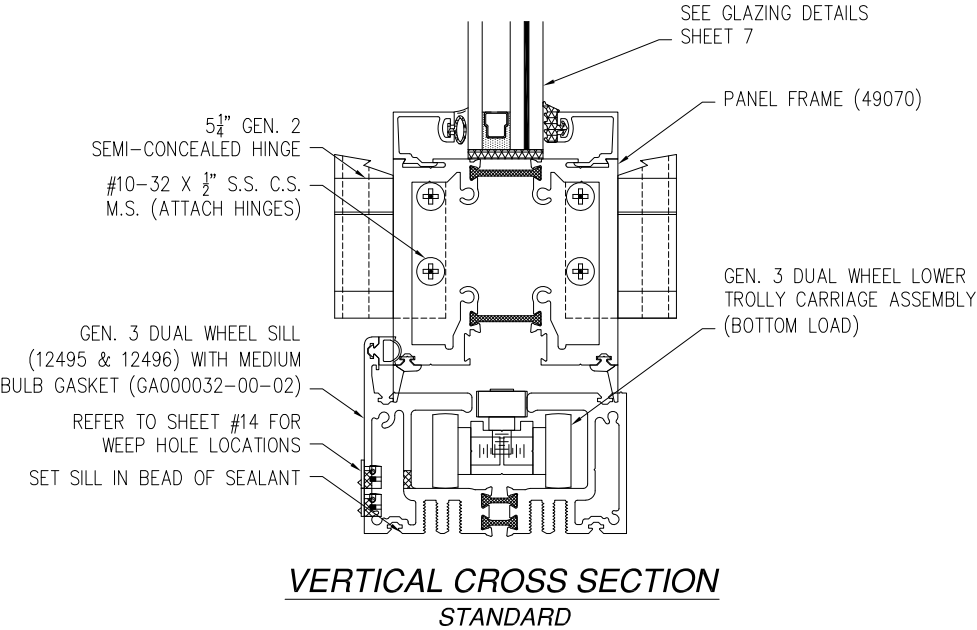
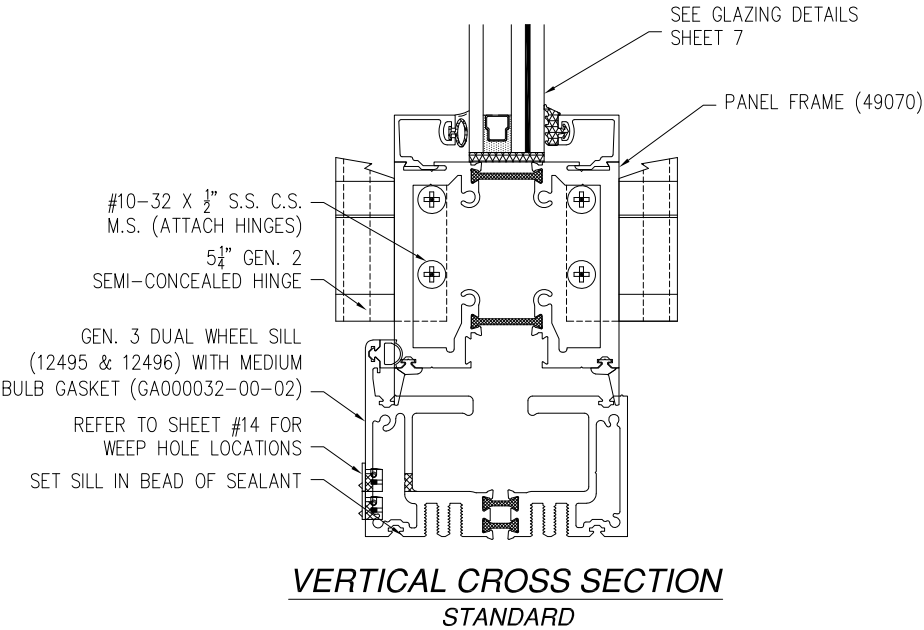
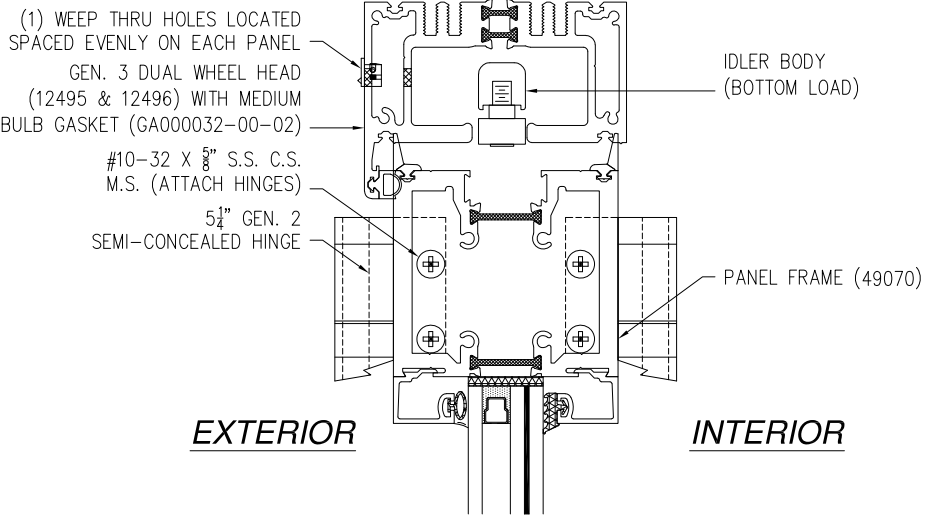
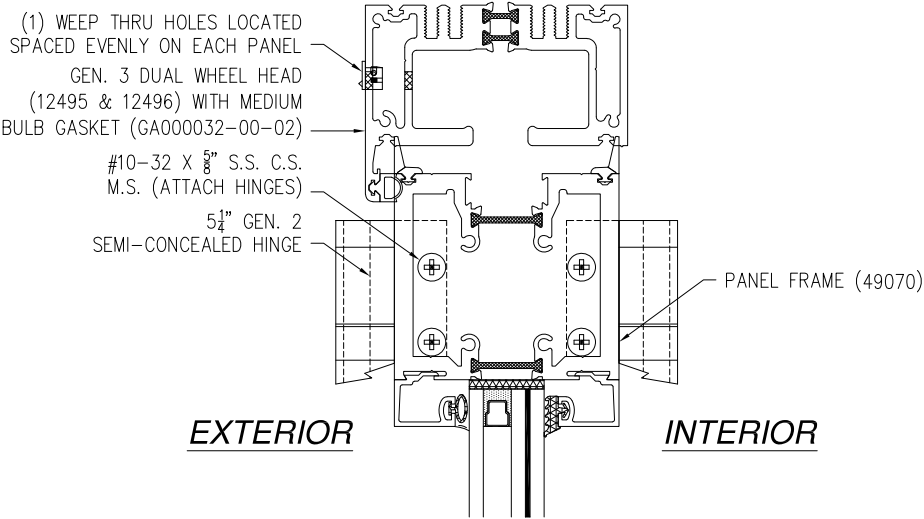
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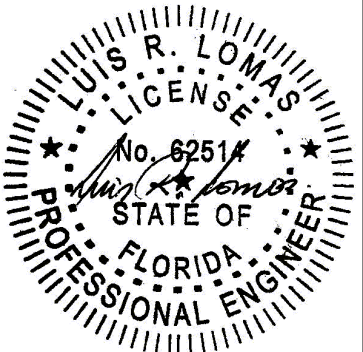
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PINE GROVE, PA 17963

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90° CORNER NO-POST - STANDARD SILL
CROSS SECTIONS

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SCALE NTS	DATE 12/03/12	SHEET 5 OF 15

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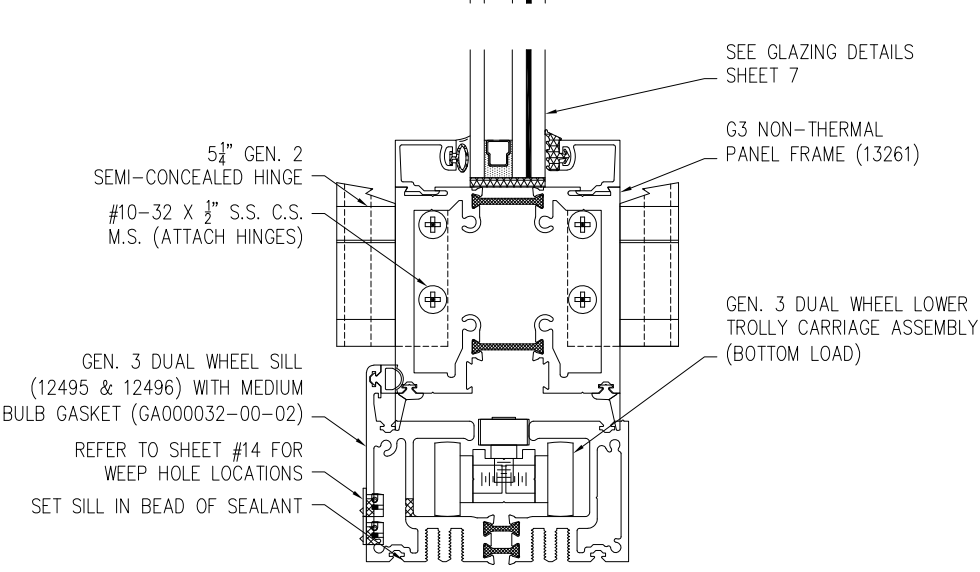
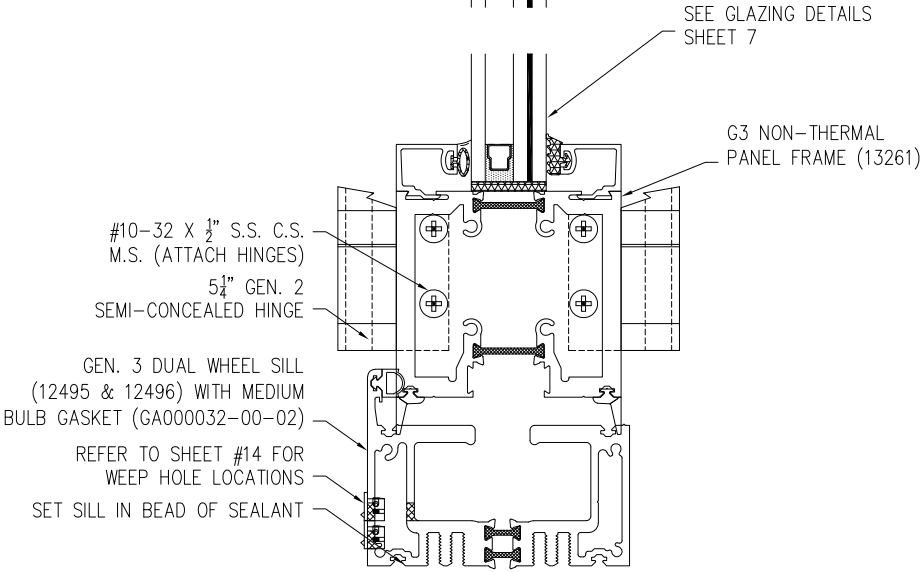
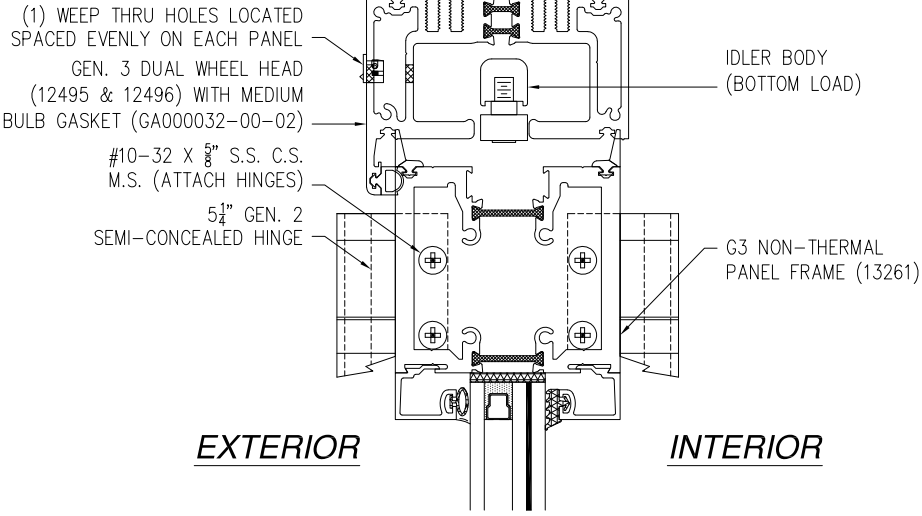
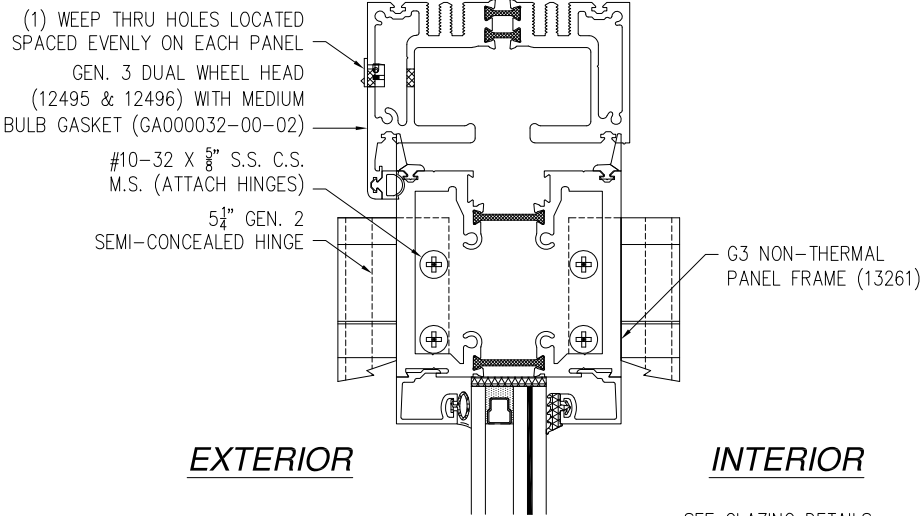
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VERTICAL CROSS SECTION
NON-THERMAL PANEL

VERTICAL CROSS SECTION
NON-THERMAL PANEL

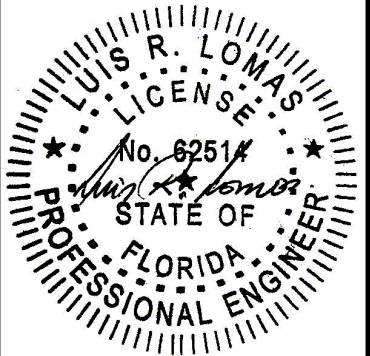
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90° CORNER NO-POST – STANDARD SILL
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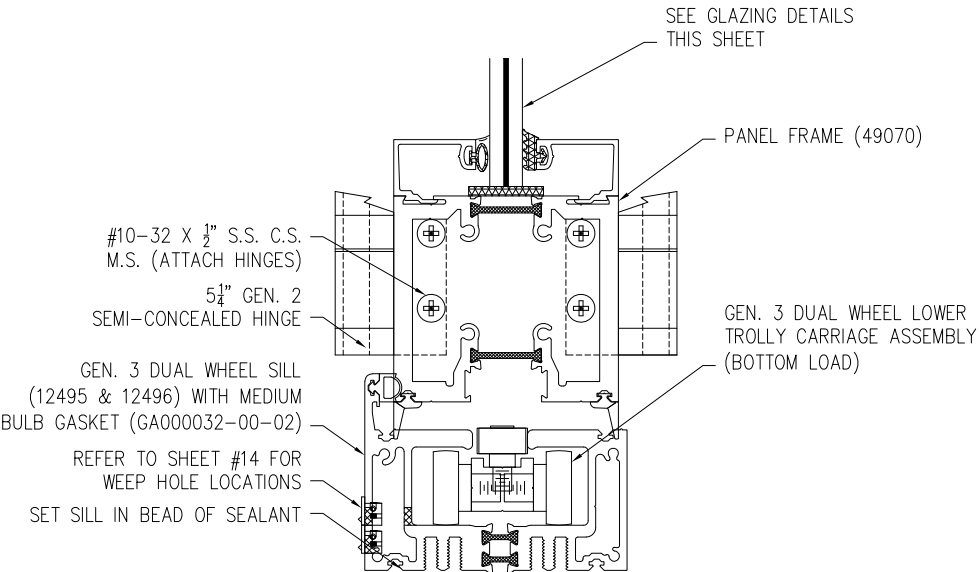
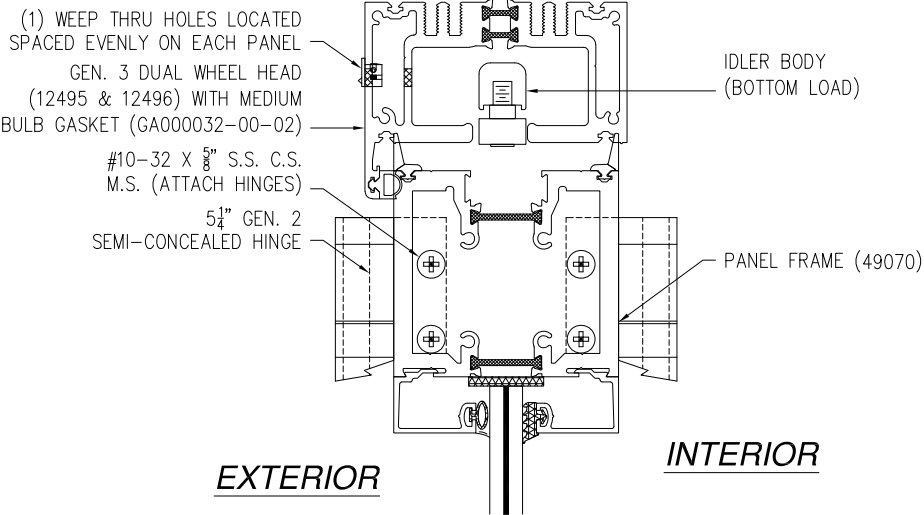
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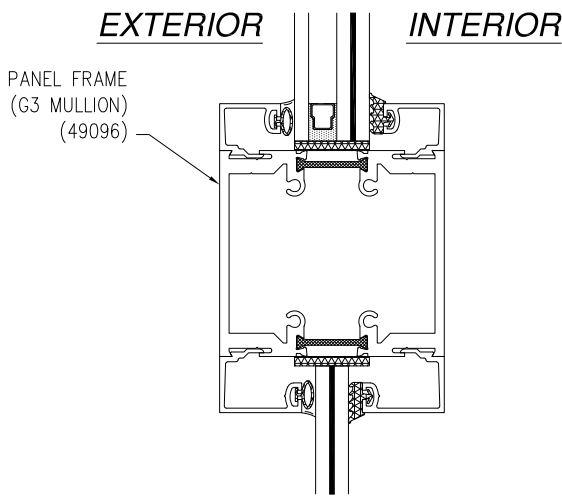
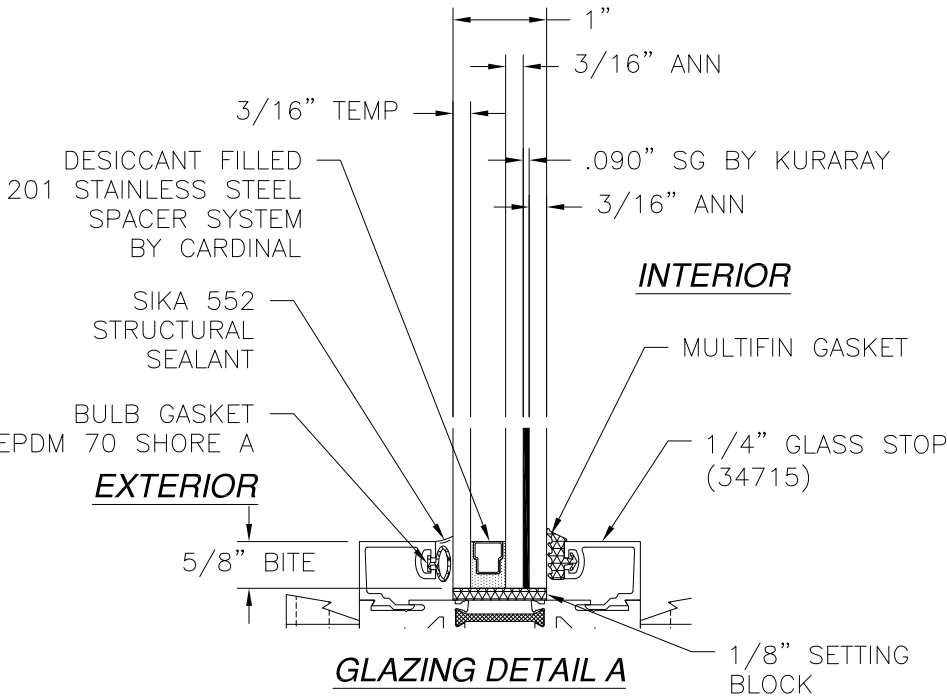
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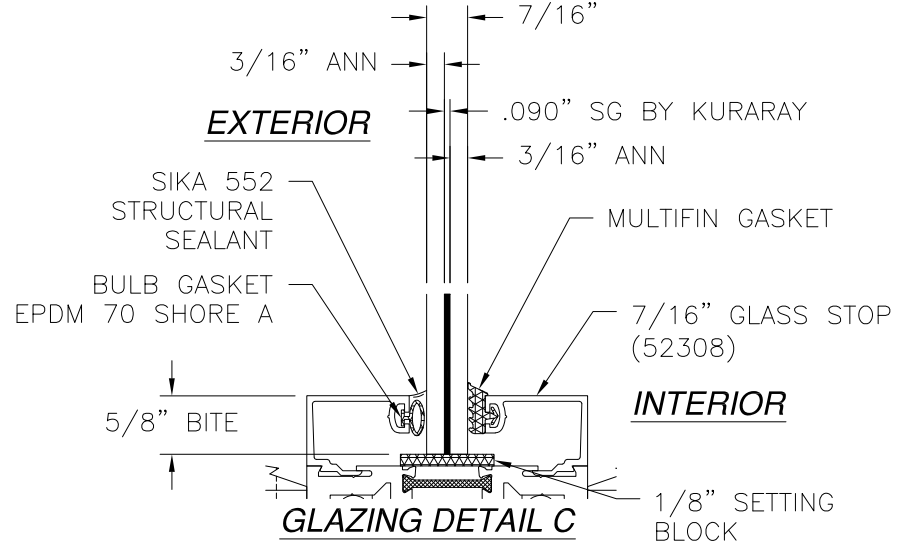
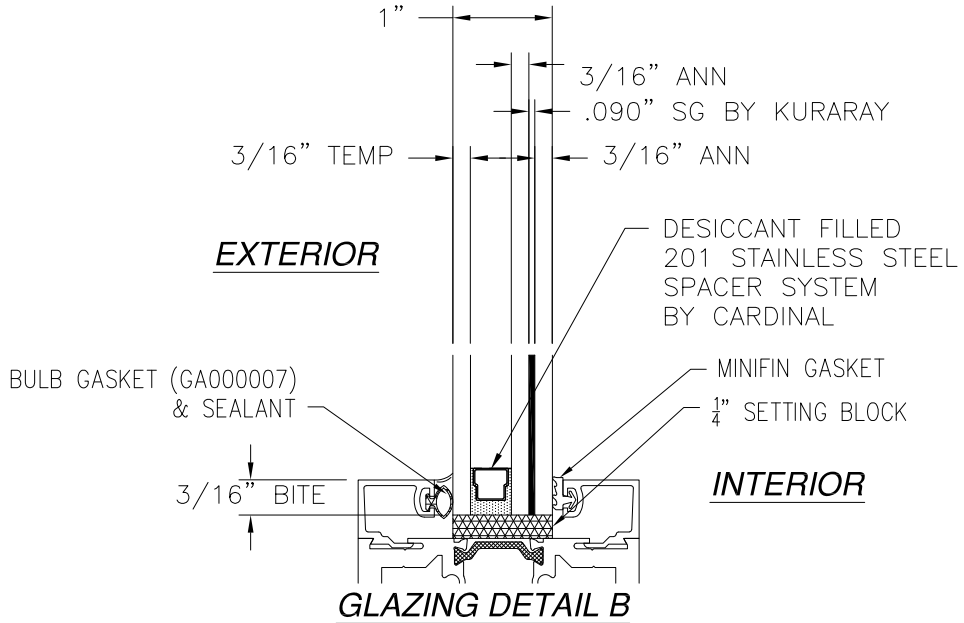
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VERTICAL CROSS SECTION
BOTTOM LOAD SILL



VERTICAL CROSS SECTION
HORIZONTAL RAIL OPTIONAL



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CROSS SECTIONS

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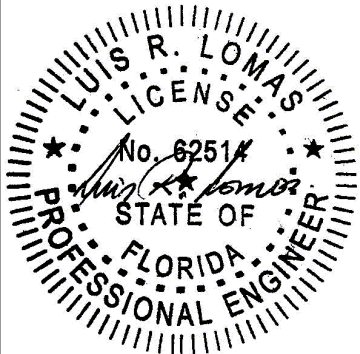
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7 OF 15

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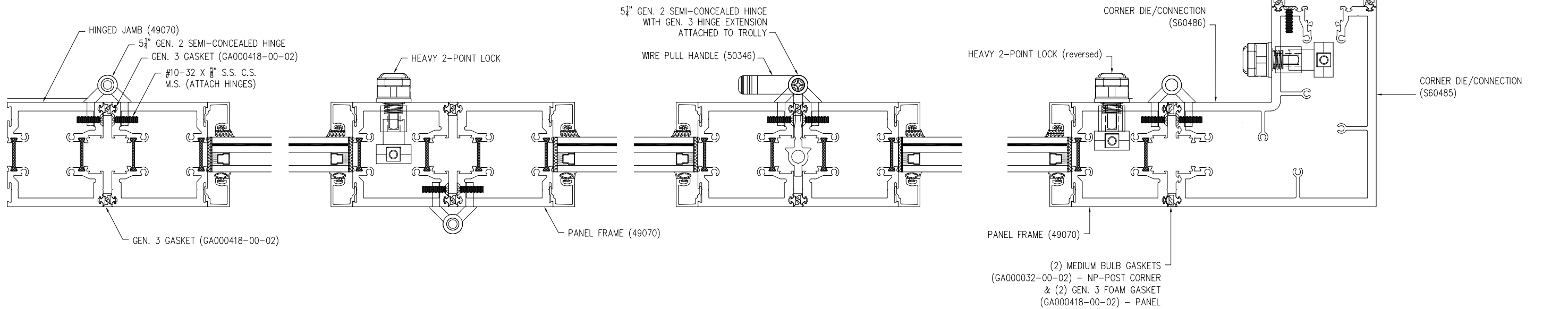


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CONTINUED
IN SHEET 9



HORIZONTAL CROSS SECTION

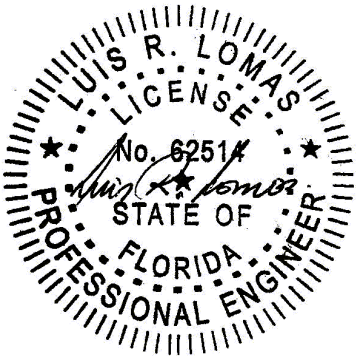
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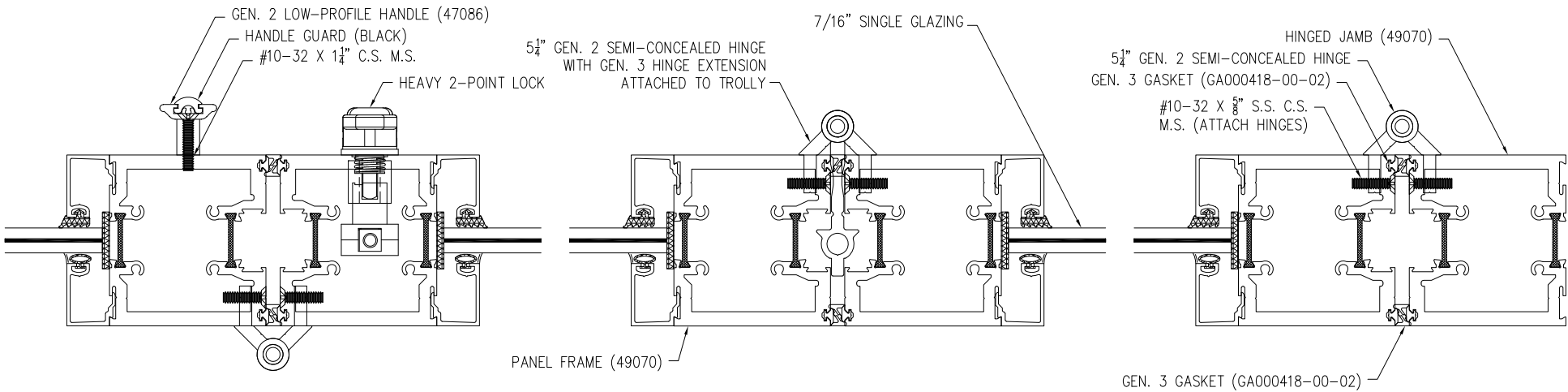


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CONTINUED
FROM SHEET 8



HORIZONTAL CROSS SECTION

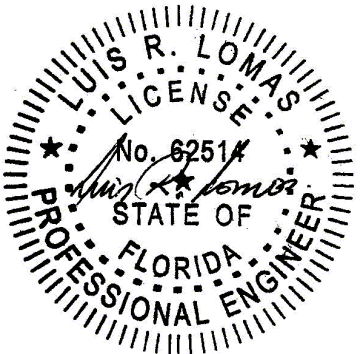
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434-688-0609 rllomas@lrlomaspe.com

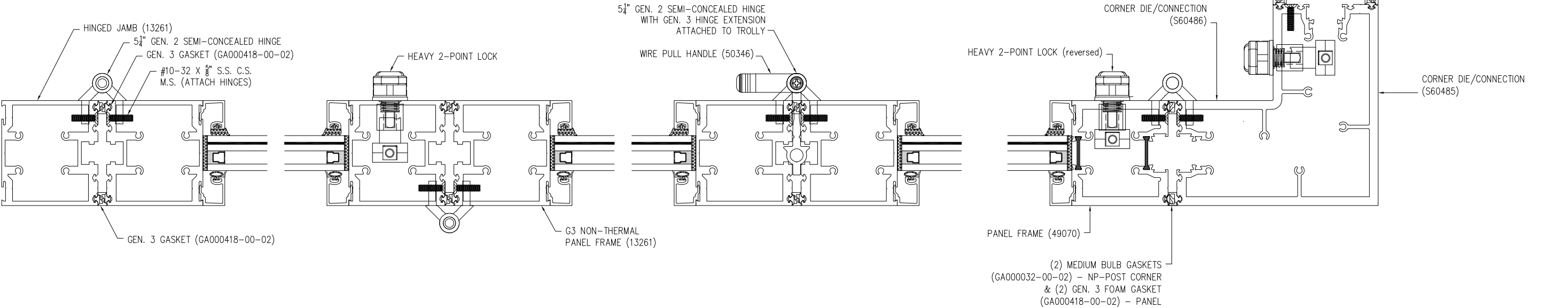


Luis R. Lomas P.E.
FL No.: 62514

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

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 12 - 13

CONTINUED
IN SHEET 11



HORIZONTAL CROSS SECTION

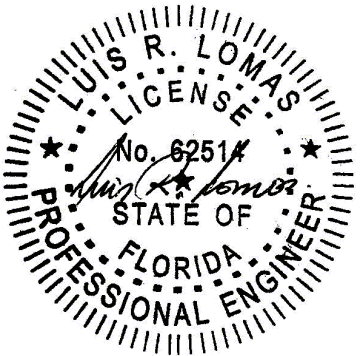
SIGNED: 12/12/2023

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 - STANDARD SILL
CROSS SECTIONS

DRAWN: V.L.	DWG NO. 08-01862	REV F
SCALE NTS	DATE 12/03/12	SHEET 10 OF 15

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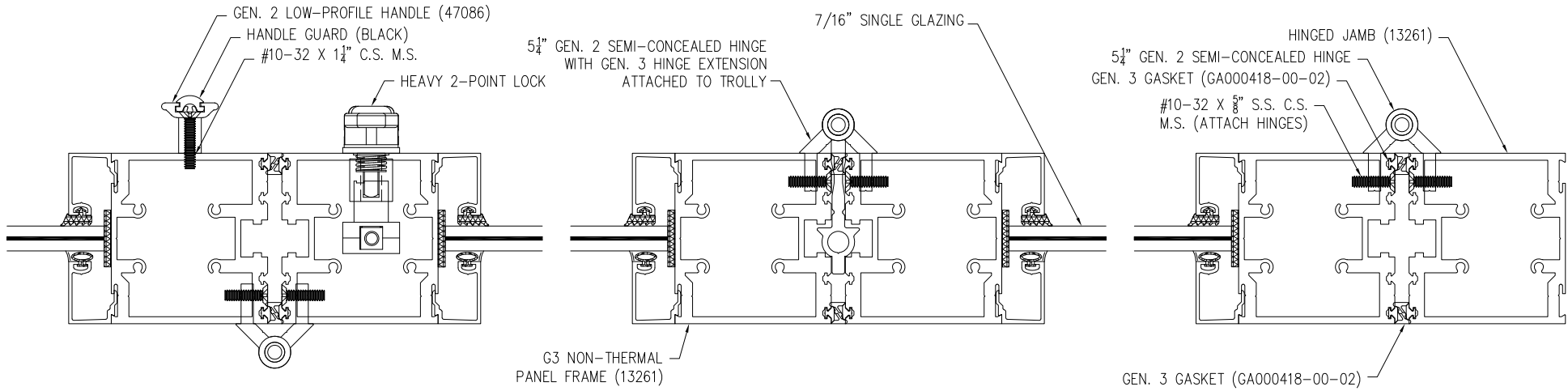


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CONTINUED
FROM SHEET 10



HORIZONTAL CROSS SECTION

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08-01862

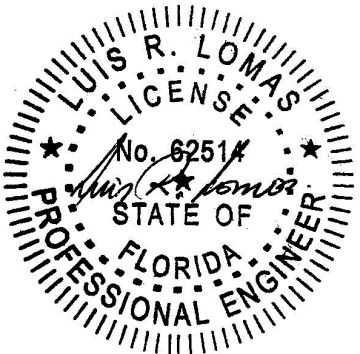
REV
F

SCALE
NTS

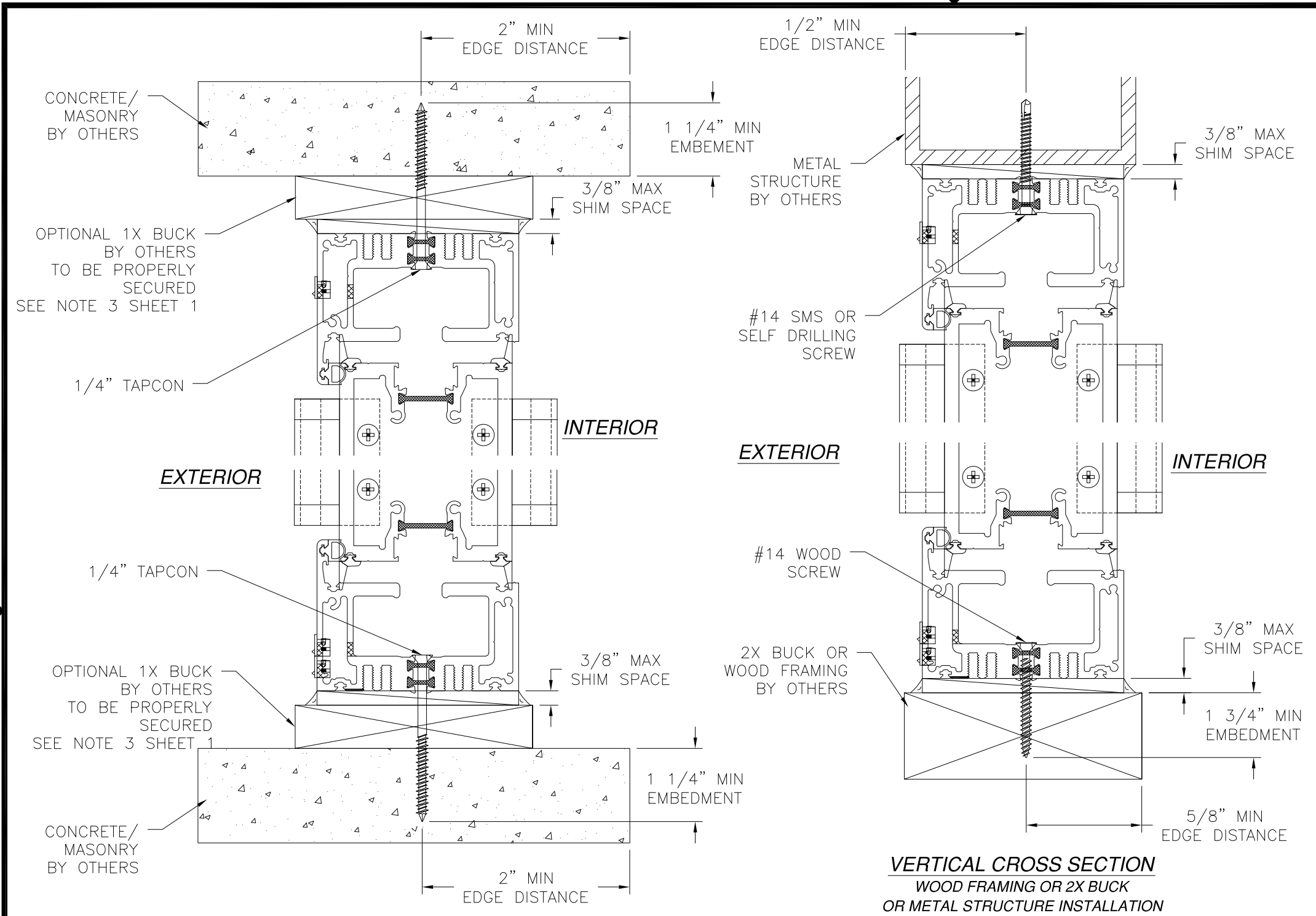
DATE
12/03/12

SHEET
11 OF 15

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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

VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

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

SIGNED: 12/12/2023

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

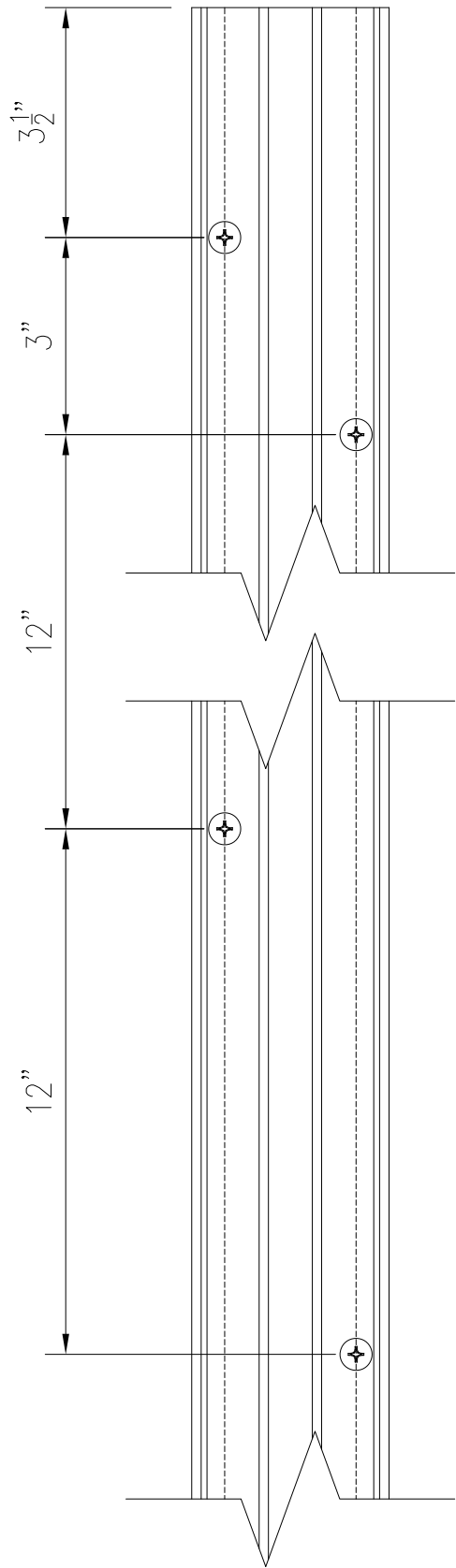
SERIES SI3000 G3 IMPACT FGW 3.5 X 9.5 PANEL
90° CORNER NO-POST – STANDARD SILL
INSTALLATION DETAIL

DRAWN: V.L.	DWG NO. 08-01862	REV F
SCALE NTS	DATE 12/03/12	SHEET 12 OF 15

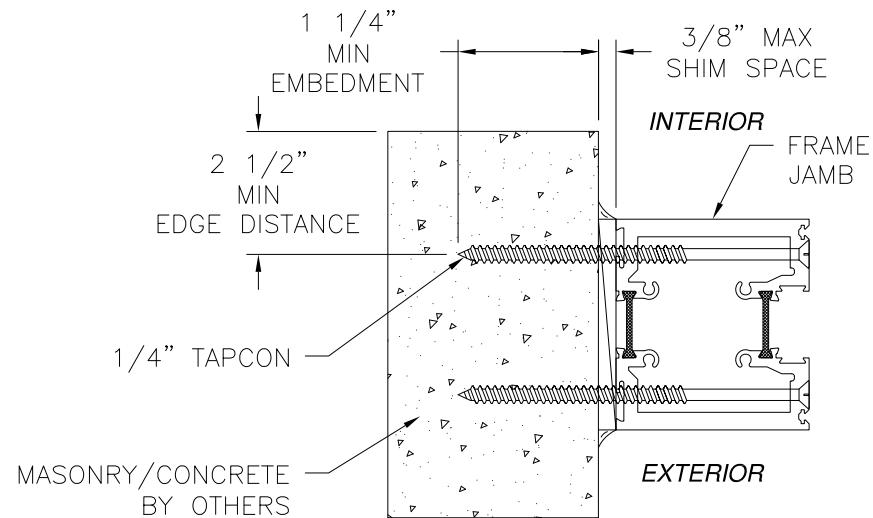
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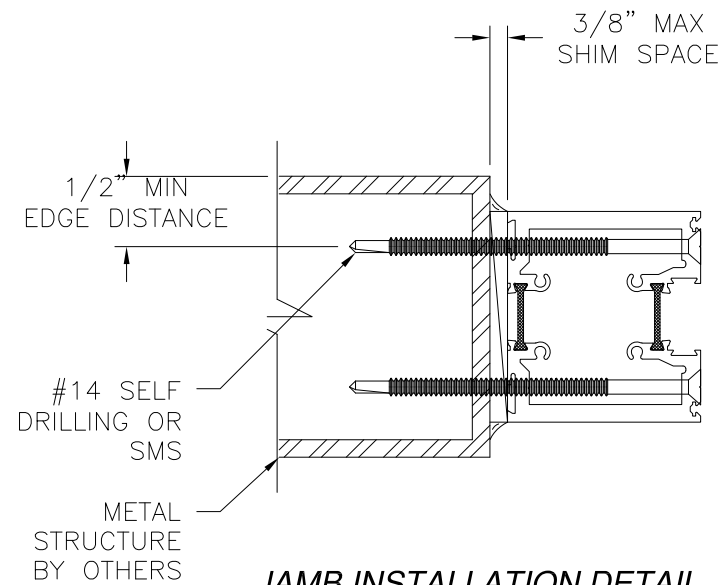
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
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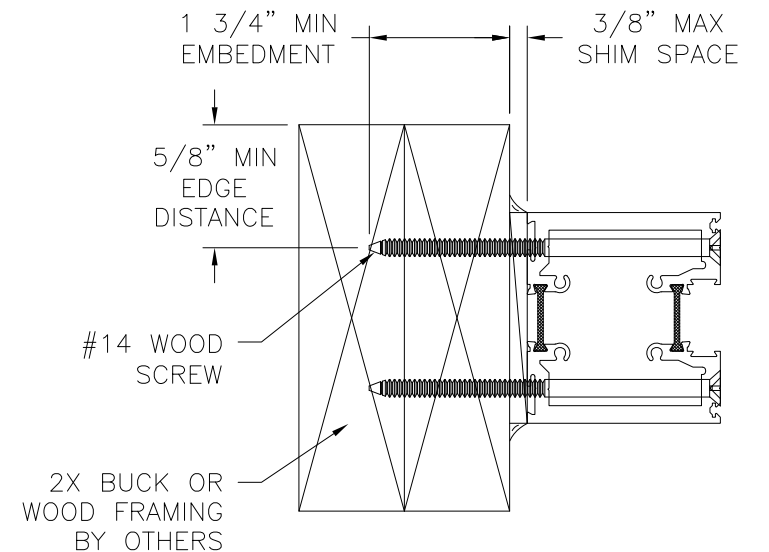
**JAMB ANCHOR LOCATIONS
DETAIL**



**JAMB INSTALLATION DETAIL
MASONRY/CONCRETE**



**JAMB INSTALLATION DETAIL
METAL STRUCTURE**

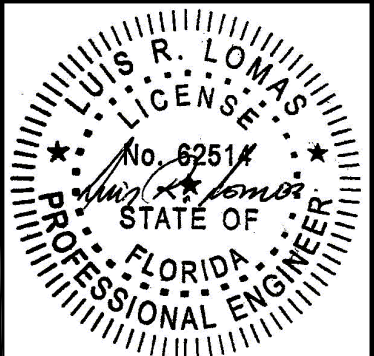


**JAMB INSTALLATION DETAIL
2X BUCK OR WOOD FRAMING**

- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS,
NOT SHOWN FOR CLARITY.
2. PERIMETER AND JOINT SEALANT BY OTHERS TO BE
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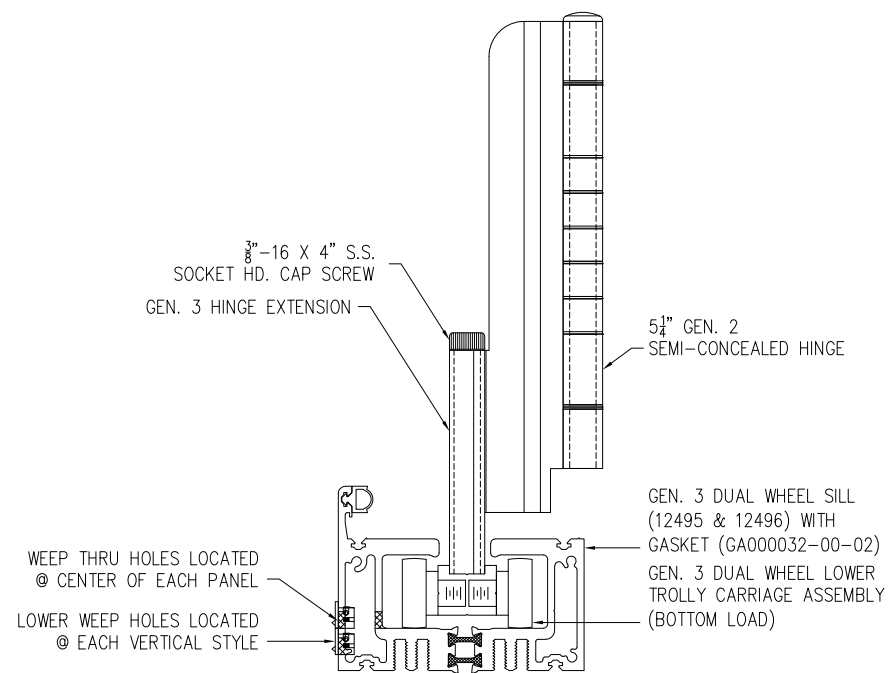
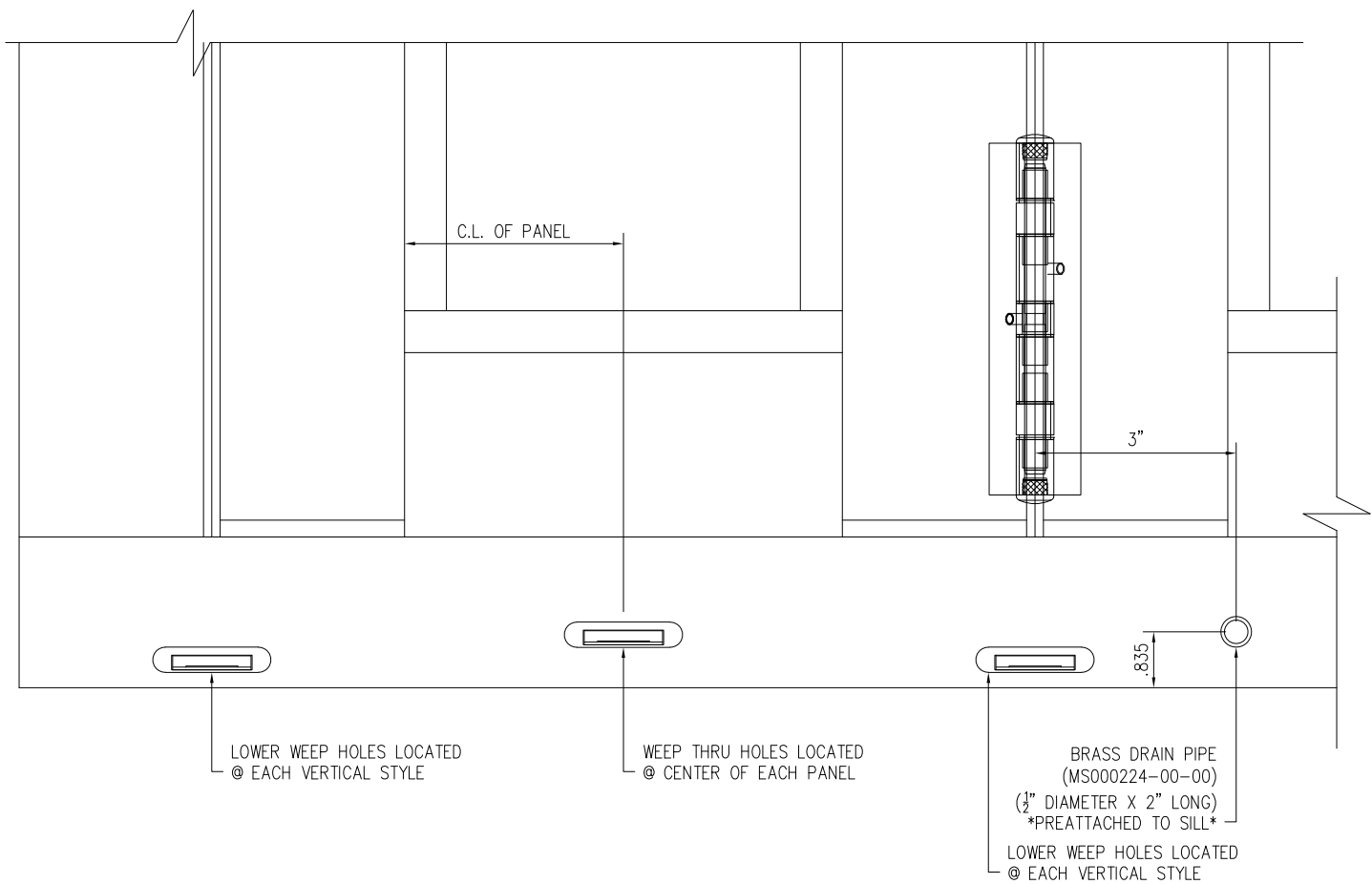
SIGNED: 12/12/2023

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 – STANDARD SILL INSTALLATION DETAIL		
DRAWN: V.L.	DWG NO. 08-01862	REV F
SCALE NTS	DATE 12/03/12	SHEET 13 OF 15
L. ROBERTO LOMAS P.E. 208 7th Ave, INDIALANTIC, FL 32903 434-688-0609 rllomas@lrlomaspe.com		

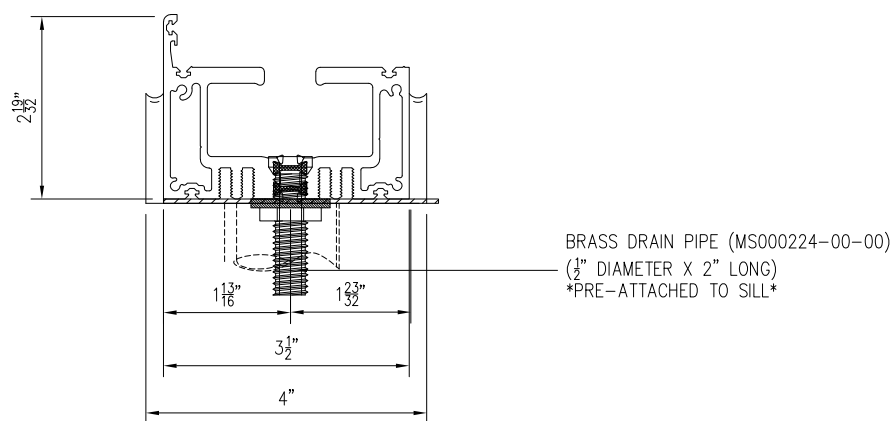


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WEEP HOLES LOCATION DETAILS



DRAIN PIPE DETAIL

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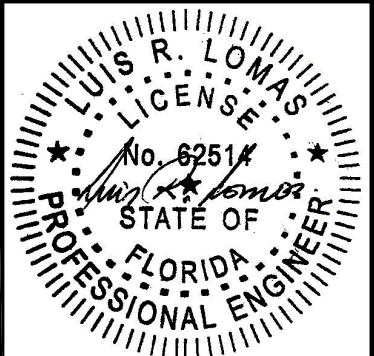
SOLAR INNOVATIONS, INC.

31 ROBERTS RD
PINE GROVE, PA 17963

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

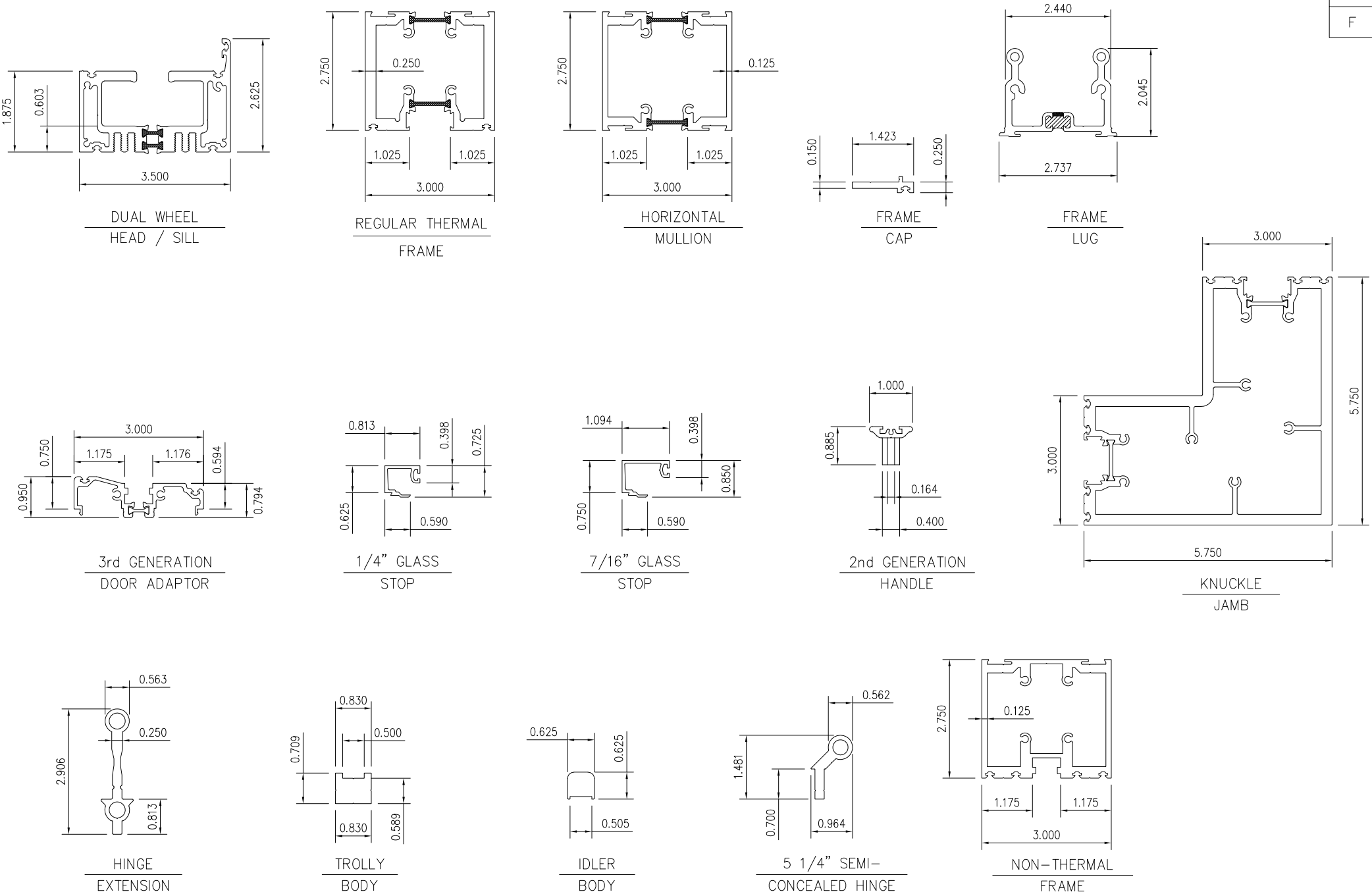
DRAWN: V.L.	DWG NO. 08-01862	REV F
SCALE NTS	DATE 12/03/12	SHEET 14 OF 15

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PINE GROVE, PA 17963

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90° CORNER NO-POST – STANDARD SILL
COMPONENTS

DRAWN:
V.L.

DWG NO.
08-01862

REV
F

SCALE
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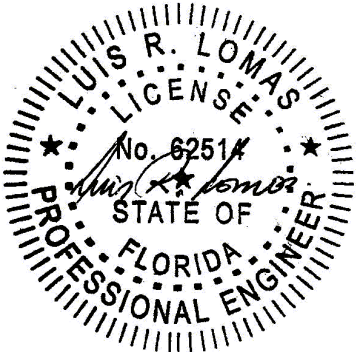
DATE
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SHEET
15 OF 15

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