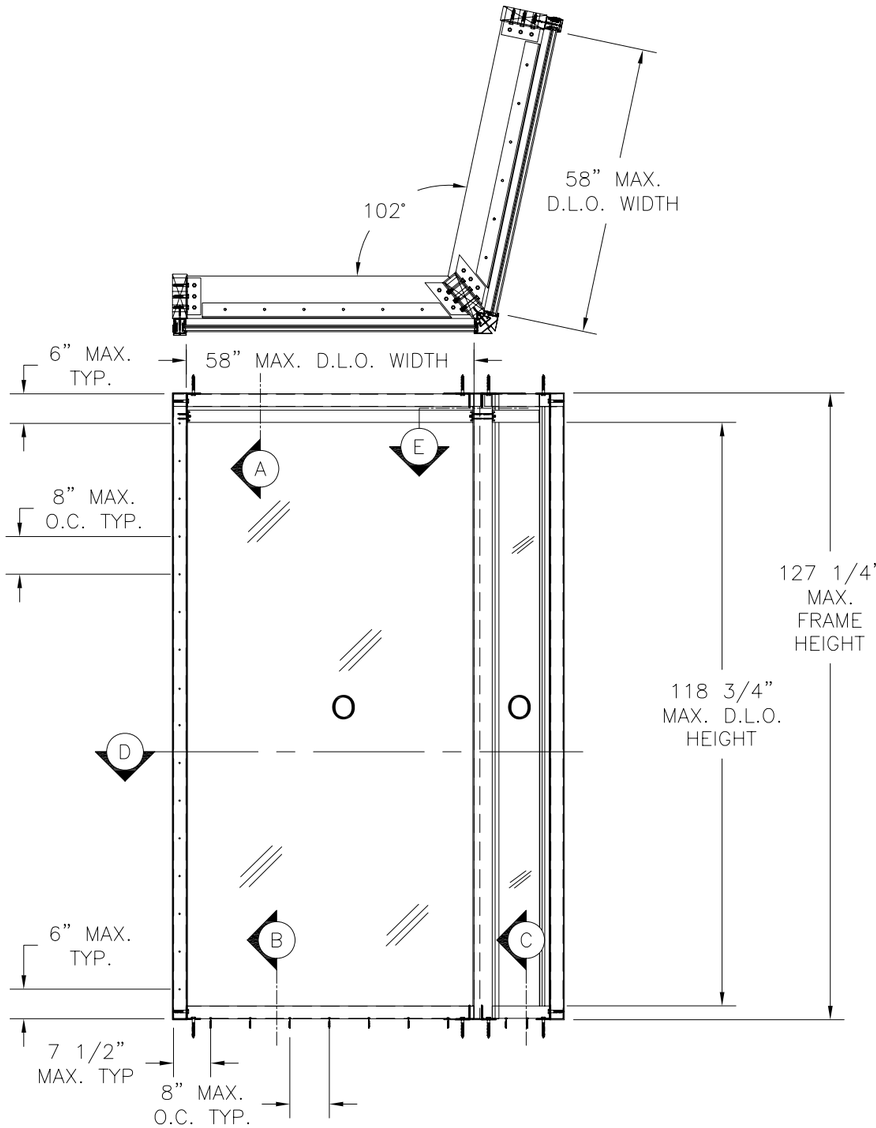

WOOD CURTAIN WALL - 102° CORNER

EXTERIOR VIEW

DESIGN PRESSURE RATING	*IMPACT RATING*
±50PSF	*LARGE AND SMALL MISSILE IMPACT*

WIND ZONE 4

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

1) THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE 2006 INTERNATIONAL BUILDING CODE AND 2006 INTERNATIONAL RESIDENTIAL CODE WITH TEXAS STATE MODIFICATIONS.
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. 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) 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.
5) FRAME MATERIAL: EXTRUDED EXTRUDED ALUMINUM 6063–T6 .102" THICK.
6) UNITS MUST BE GLAZED PER ASTM E1300 SEE SHEET 9 FOR GLAZING DETAILS.
7) APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
8) APPROVED CONFIGURATIONS: UNLIMITED NUMBER OF PANELS IN UNLIMITED CONFIGURATIONS IS APPLICABLE AS LONG AS INDIVIDUAL PANEL SIZE DOES NOT EXCEED TESTED PANEL SIZE.
9) MAXIMUM PANEL SIZE 62 1/4" x 127 1/4".
10) 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 1/4".
11) FOR ANCHORING INTO MASONRY/CONCRETE THROUGH RAFTER EXTERIOR CLIP USE 1/2" POWERS WEDGE BOLT ANCHORS WITH SUFFICIENT LENGTH TO ACHIEVE A 2 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 4 1/8'' MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
12) FOR ANCHORING INTO MASONRY/CONCRETE THROUGH SILL F.G.S. INTERIOR CLIP USE 1/4" ITW TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 3/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2'' MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
13) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK THROUGH SILL F.G.S. INTERIOR CLIP USE 1/4" LAG SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 3 1/2" MINIMUM EMBEDMENT INTO SUBSTRATE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
14) FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK THROUGH RAFTER EXTERIOR CLIP USE 1/2" LAG SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 2 3/16" MINIMUM EMBEDMENT INTO SUBSTRATE. 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:
    A. WOOD – MINIMUM SPECIFIC GRAVITY OF G=0.42
    B. CONCRETE – MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.

TABLE OF CONTENTS

SHEET NO.	DESCRIPTION
1	ELEVATION, ANCHORING AND NOTES
2 – 7	INSTALLATION DETAILS
8	COMPONENTS
9	COMPONENTS AND GLAZING DETAIL

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

WOOD CURTAIN WALL – 102°
IMPACT
ELEVATION, ANCHORING AND NOTES

DRAWN:	DWG NO.	REV
TJH	08–01077	–
SCALE NTS	DATE 08/06/10	SHEET 1 OF 9

STATE OF TEXAS
LUIS R. LOMAS
101889
LICENSED
PROFESSIONAL ENGINEER

Luis R. Lomas P.E.
Texas No. 101889

REVISIONS			
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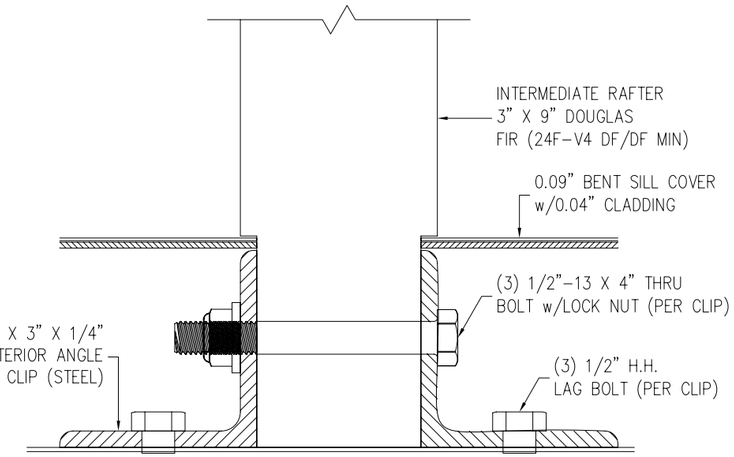
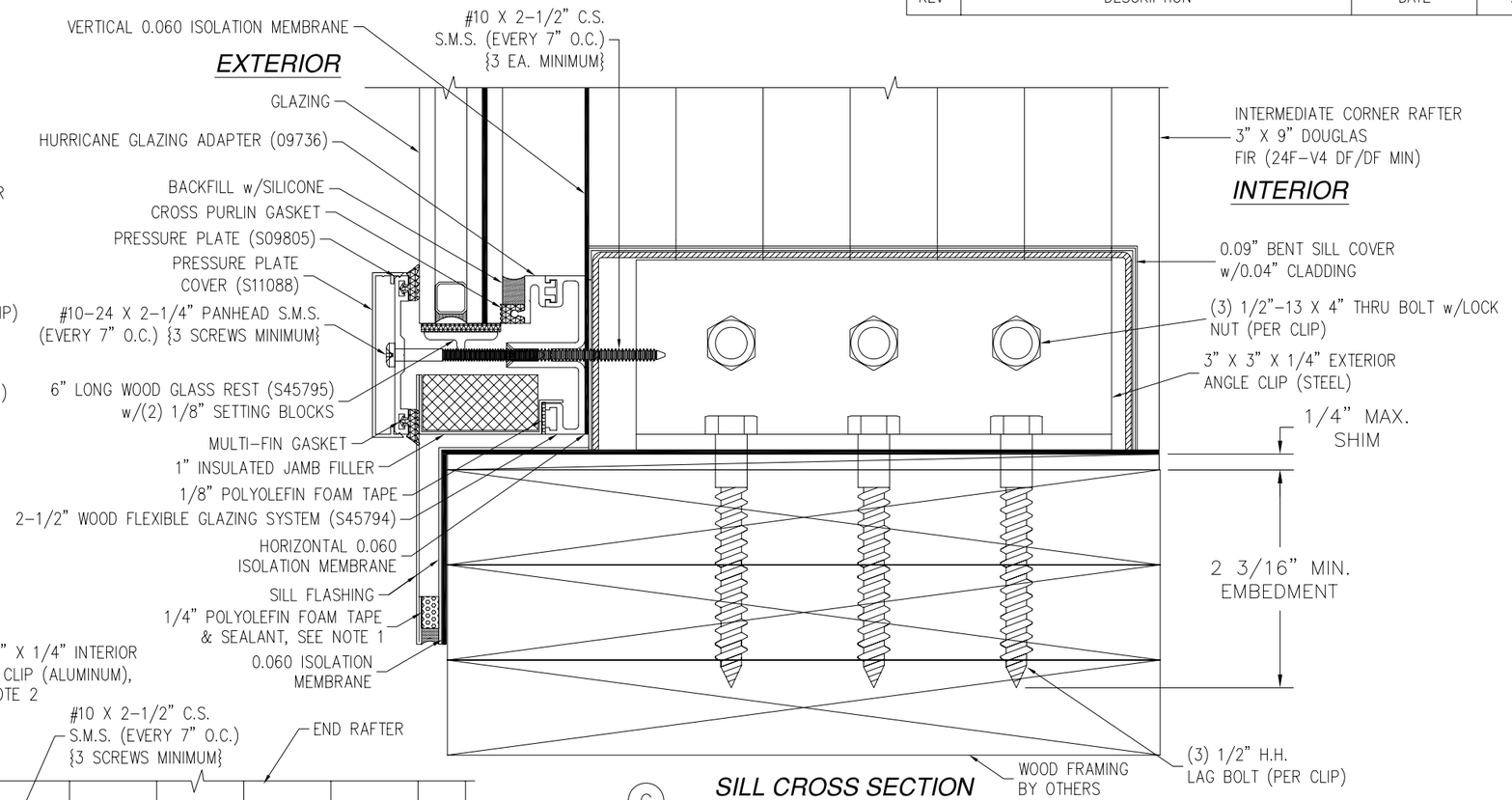
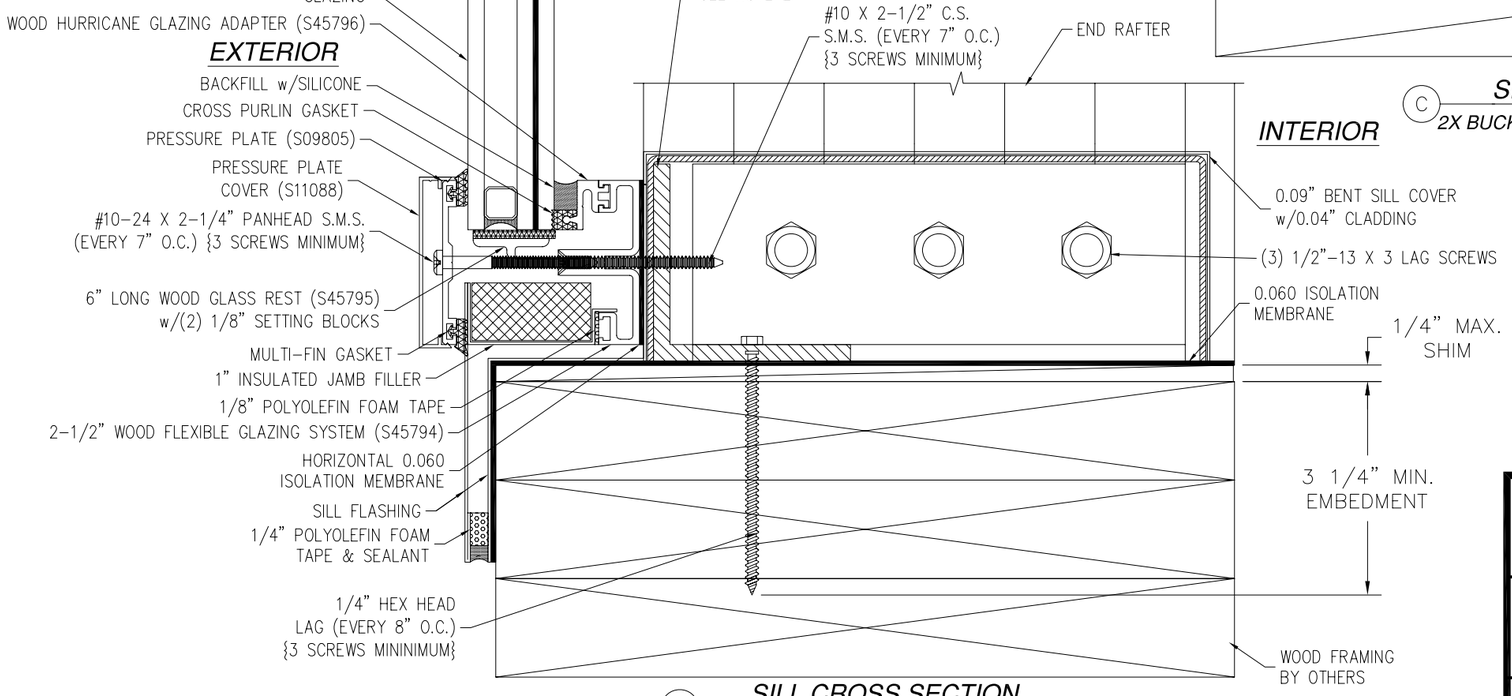


SILL EXTERIOR VIEW



C *SILL CROSS SECTION*
2X BUCK/WOOD FRAMING INSTALLATION



B *SILL CROSS SECTION*
2X BUCK/WOOD FRAMING INSTALLATION

NOTES:
1. AT SILL FLASHING LEAVE 1/2" SPACE UNTAPED AT EVERY RAFTER TO ALLOW WATER TO DRAIN SYSTEM.
2. ALUMINUM ANGLE CLIP TO SPAN BETWEEN STEEL ANGLE CLIPS.

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

WOOD CURTAIN WALL – 102°
IMPACT
INSTALLATION DETAILS

DRAWN:	DWG NO.	REV
TJH	08-01077	–
SCALE NTS	DATE 08/06/10	SHEET 2 OF 9

Luis R. Lomas P.E.
Texas No. 101889

REVISIONS			
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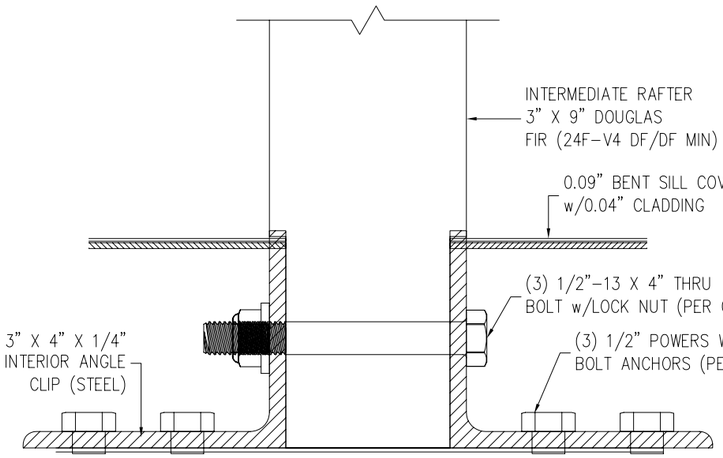
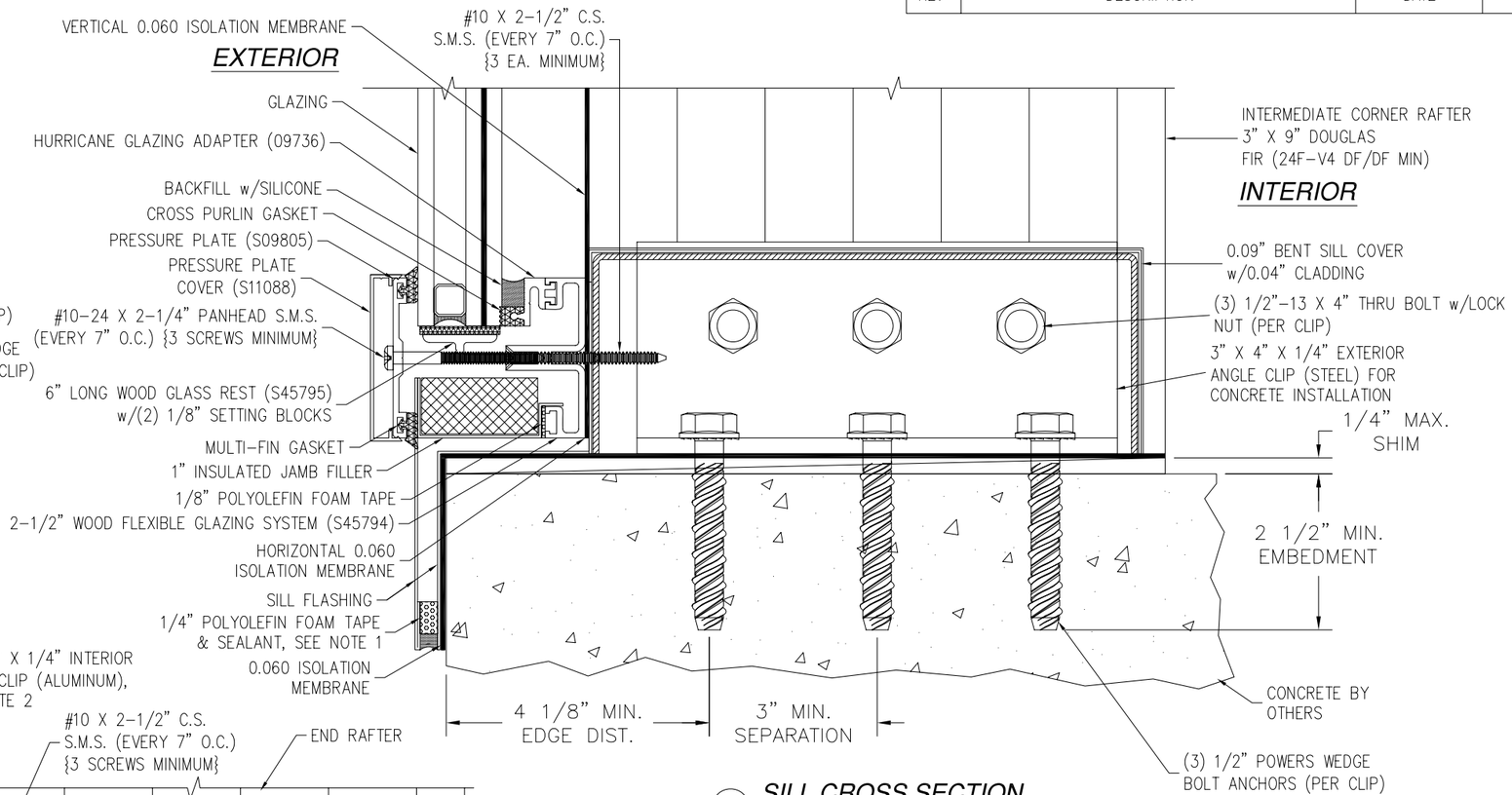
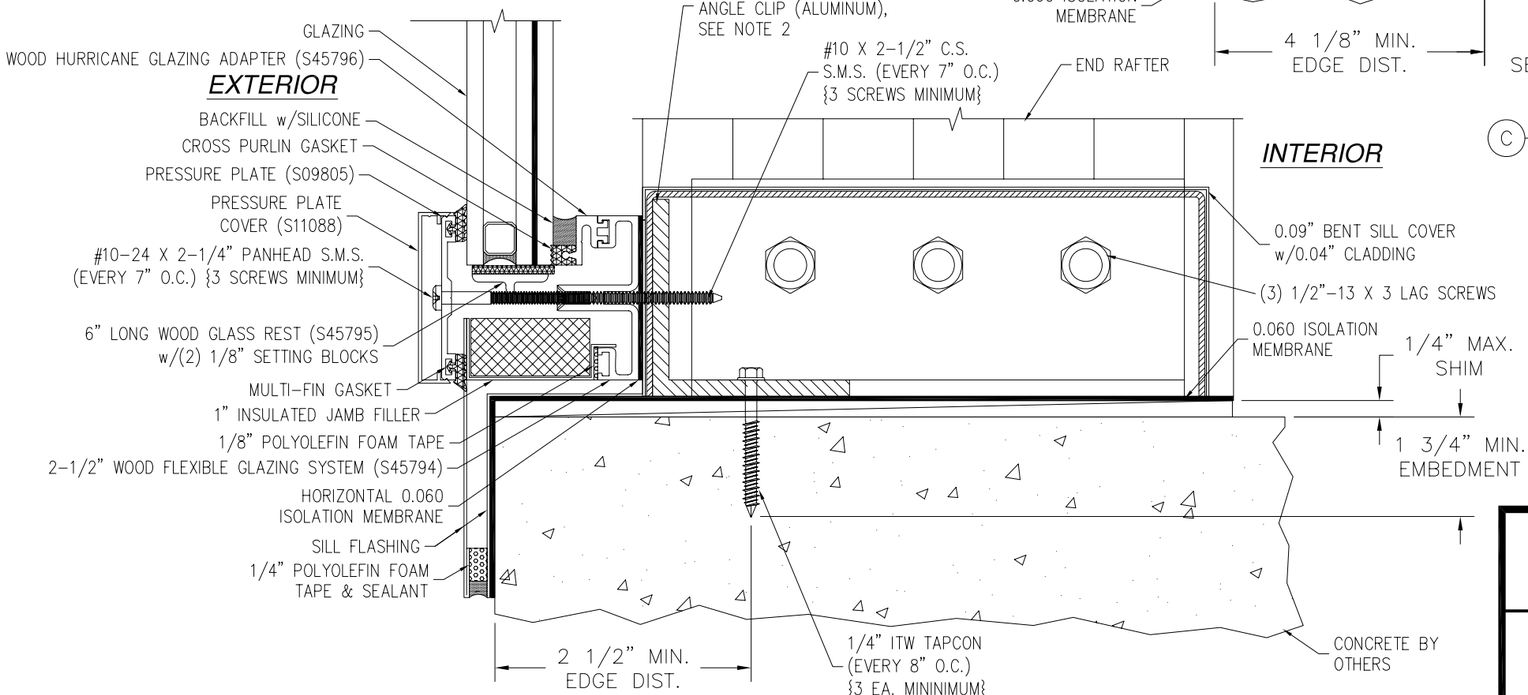


SILL EXTERIOR VIEW



C SILL CROSS SECTION
CONCRETE INSTALLATION



B SILL CROSS SECTION
CONCRETE INSTALLATION

NOTES:
1. AT SILL FLASHING LEAVE 1/2" SPACE UNTAPED AT EVERY RAFTER TO ALLOW WATER TO DRAIN SYSTEM.
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SOLAR INNOVATIONS, INC.
31 ROBERTS RD
PINE GROVE, PA 17963

WOOD CURTAIN WALL – 102°
IMPACT
INSTALLATION DETAILS

DRAWN:	DWG NO.	REV
TJH	08-01077	–
SCALE NTS	DATE 08/06/10	SHEET 3 OF 9

STATE OF TEXAS
LUIS R. LOMAS
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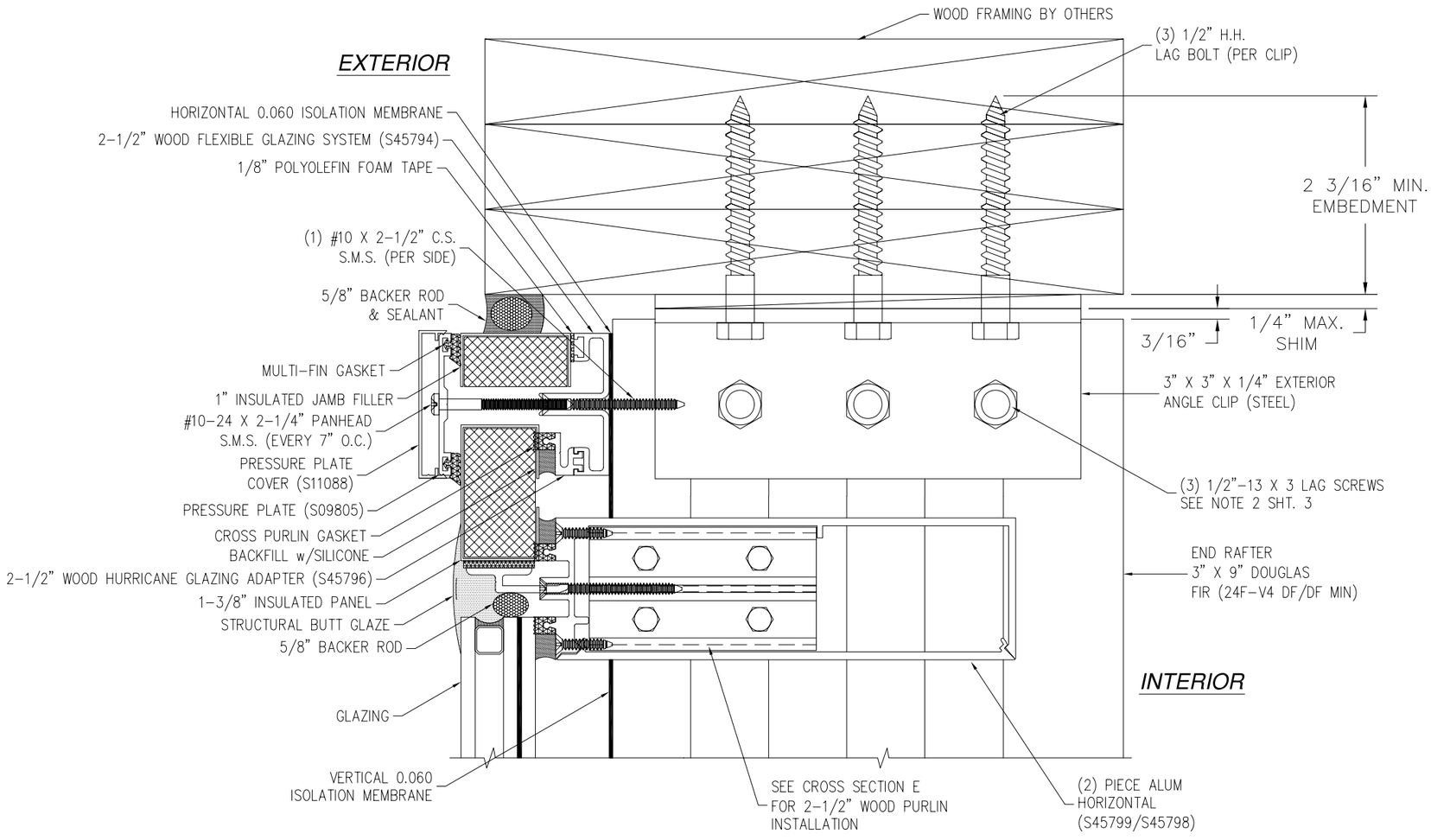

A **HEAD CROSS SECTION**

2X BUCK/WOOD FRAMING INSTALLATION

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

WOOD CURTAIN WALL – 102°
IMPACT
INSTALLATION DETAILS

DRAWN:	DWG NO.	REV
TJH	08-01077	–
SCALE NTS	DATE 08/06/10	SHEET 4 OF 9

STATE OF TEXAS
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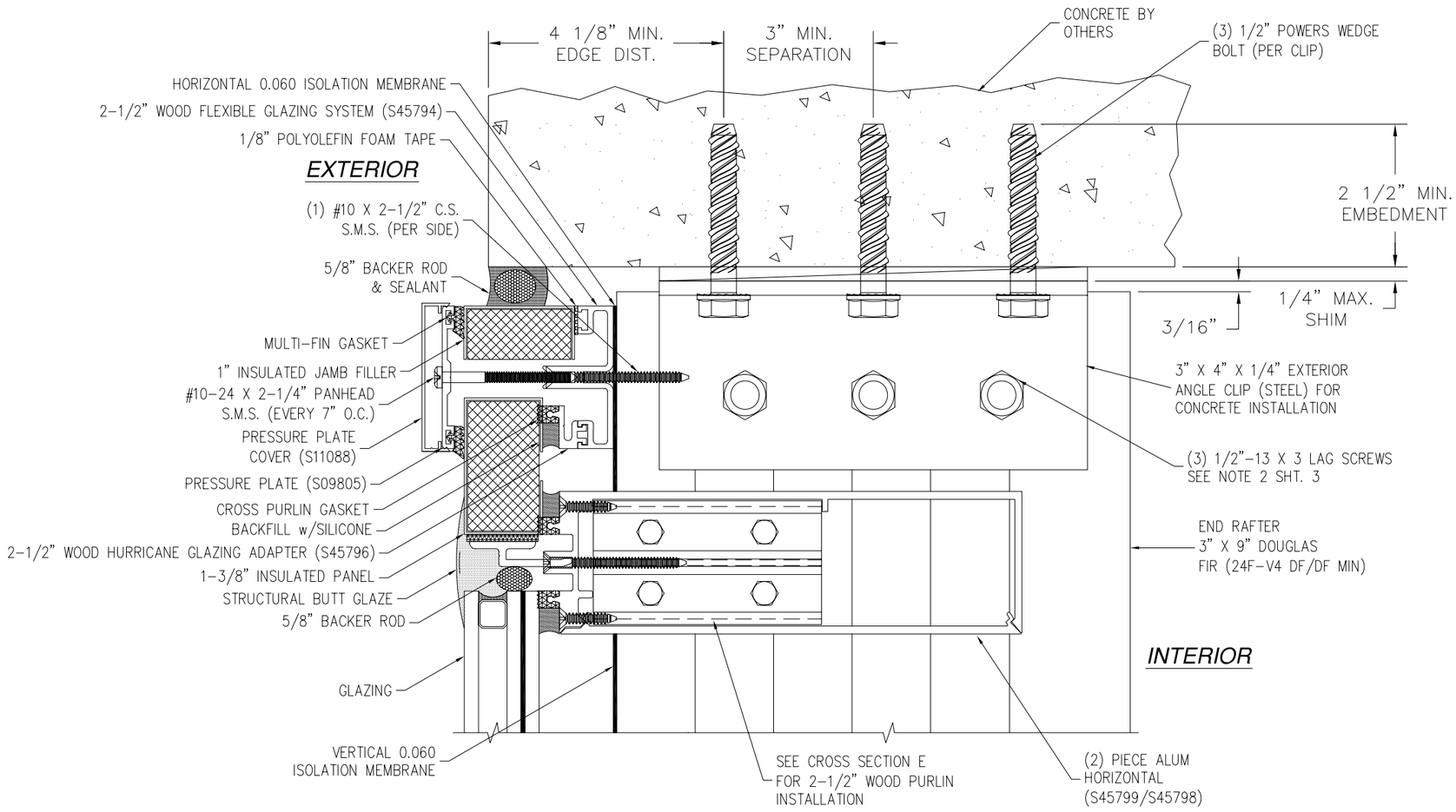

A **HEAD CROSS SECTION**
CONCRETE INSTALLATION

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

WOOD CURTAIN WALL – 102°
IMPACT
INSTALLATION DETAILS

DRAWN:	DWG NO.	REV
TJH	08-01077	–
SCALE NTS	DATE 08/06/10	SHEET 5 OF 9

STATE OF TEXAS
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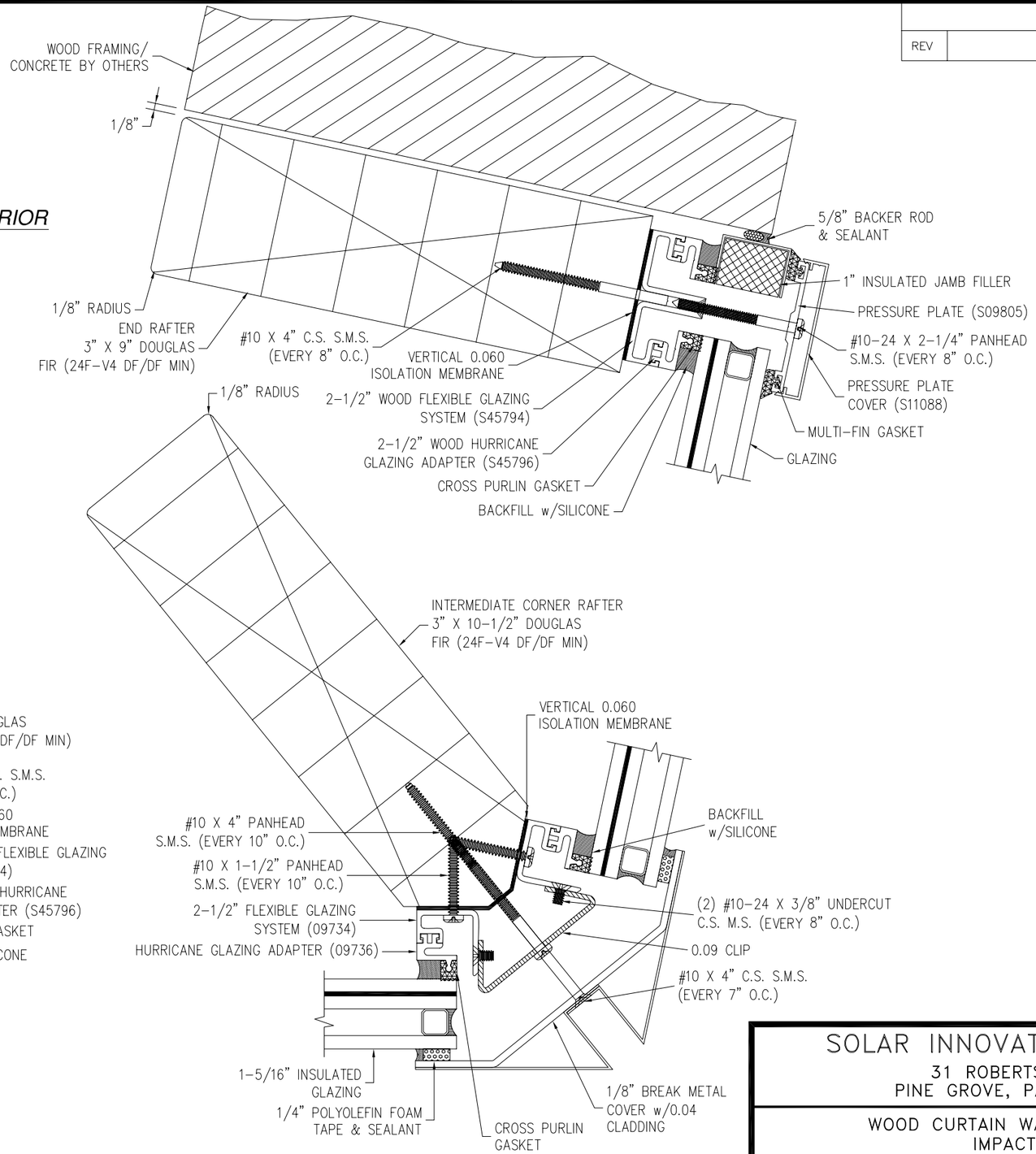

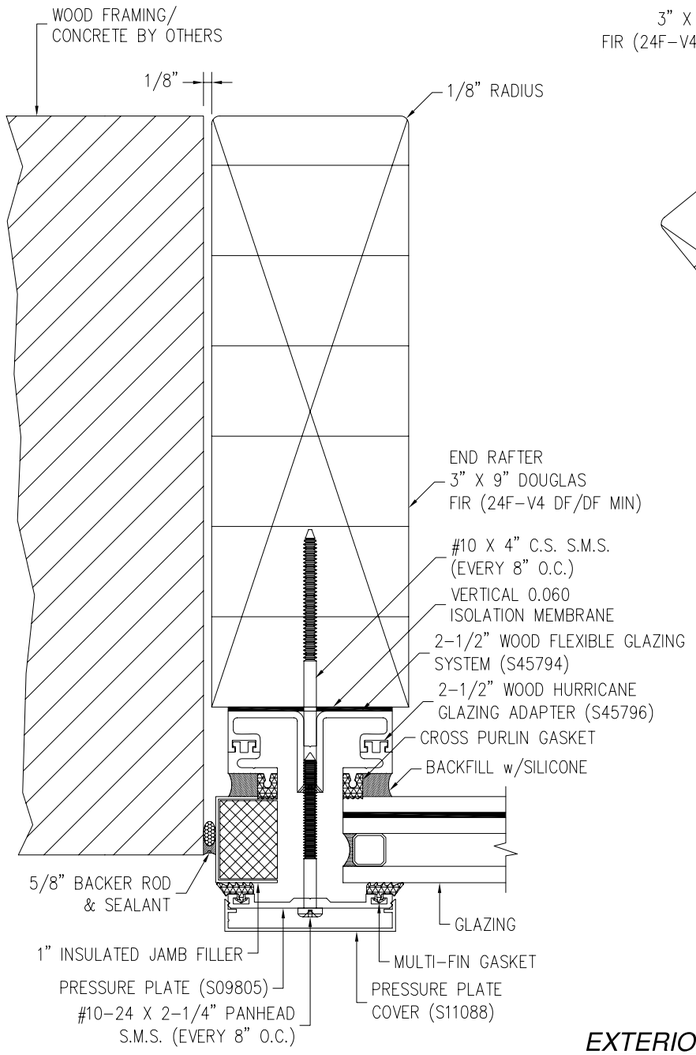

EXTERIOR

D **HORIZONTAL CROSS SECTION**

2X BUCK/WOOD FRAMING AND CONCRETE INSTALLATION

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

WOOD CURTAIN WALL – 102°
IMPACT
INSTALLATION DETAILS

DRAWN:	DWG NO.	REV
TJH	08-01077	–
SCALE NTS	DATE 08/06/10	SHEET 6 OF 9

STATE OF TEXAS
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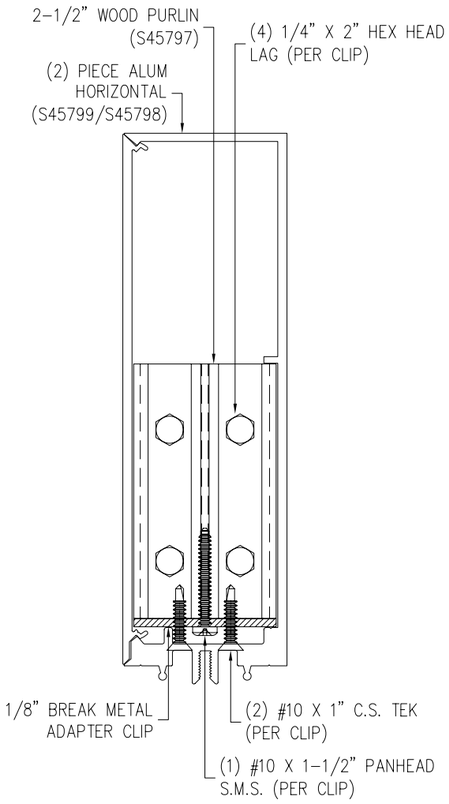
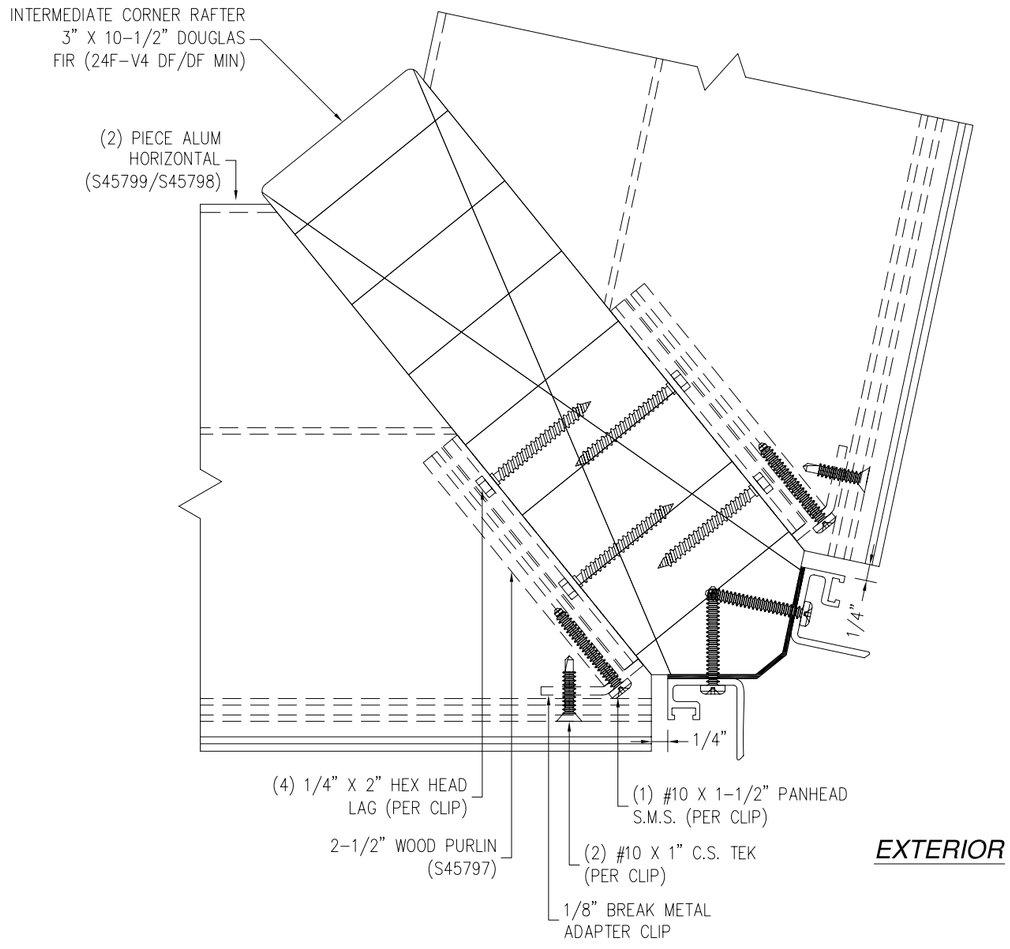


END VIEW

2-1/2" WOOD PURLIN INSTALLATION DETAIL

INTERIOR



EXTERIOR

E *HORIZONTAL CROSS SECTION*

INTERMEDIATE CORNER RAFTER 2-1/2" WOOD PURLIN INSTALLATION

NOTE:
1. VERTICAL 2 1/2" WOOD HURRICANE GLAZING ADAPTER DOES NOT RUN CONTINUOS ON VERTICAL RAFTERS. TO BE TERMINATED AT INTERSECTION WITH ALUMINUM HORIZONTALS.

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

WOOD CURTAIN WALL – 102°
IMPACT
INSTALLATION DETAILS

DRAWN:	DWG NO.	REV
TJH	08-01077	–
SCALE NTS	DATE 08/06/10	SHEET 7 OF 9

Luis R. Lomas P.E.
Texas No. 101889

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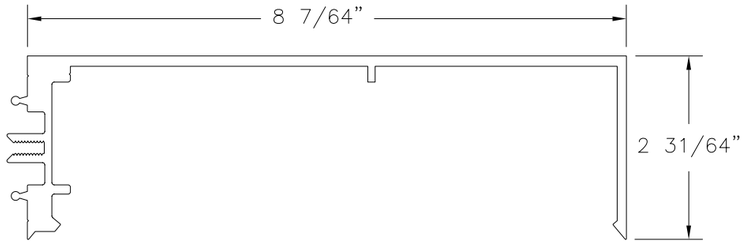
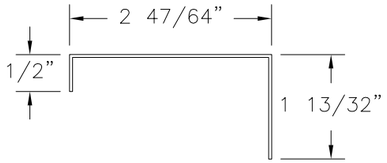


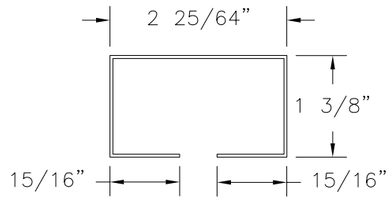
S45799 - HORIZONTAL MULLION

ALUMINUM 6063-T6 .14" THICK



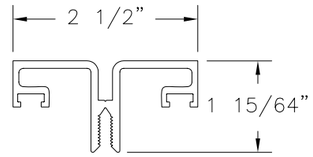
SILL COVER FLASHING

ALUMINUM 3003-H14 .04" THICK



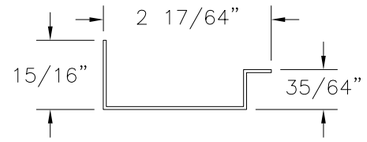
HEADER PANEL

ALUMINUM 3003-H14 .04" THICK



S45794 - 2 1/2" WOOD FLEXIBLE GLAZING SYSTEM

ALUMINUM 6063-T6 .102" THICK

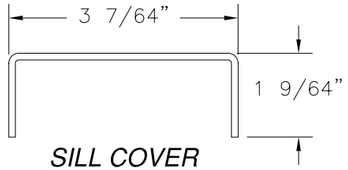


SILL JAMB PANEL

ALUMINUM 3003-H14 .04" THICK

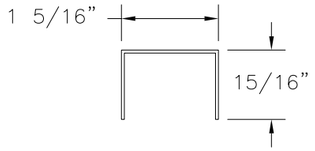
S45798 - HORIZONTAL MULLION

ALUMINUM 6063-T6 .14" THICK



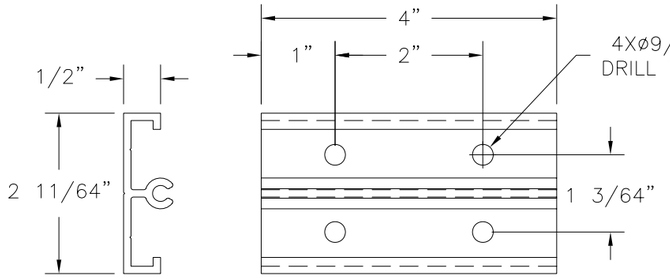
SILL COVER

ALUMINUM 3003-H14 .09" THICK



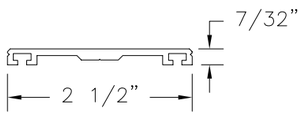
VERTICAL JAMB PANEL

ALUMINUM 3003-H14 .04" THICK



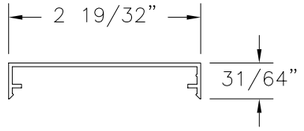
S45797 - 2 1/2" WOOD PURLIN

ALUMINUM 6063-T6 .10" THICK



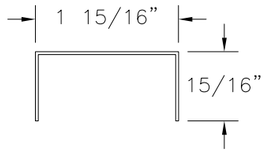
S09805 - PRESS PLATE

ALUMINUM 6063-T6 .09" THICK



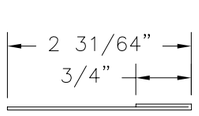
S11088 - PRESS PLATE COVER

ALUMINUM 6063-T6 .05" THICK



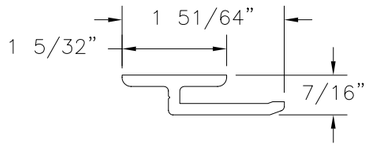
HEADER JAMB PANEL

ALUMINUM 3003-H14 .04" THICK



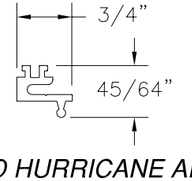
EXTERIOR SILL FLASHING

ALUMINUM 3003-H14 .04" THICK



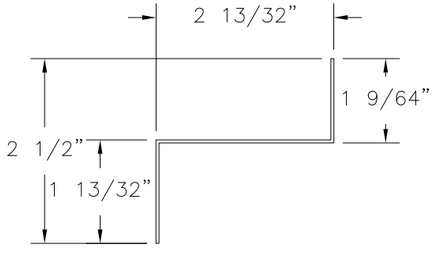
S45795 - WOOD GLASS REST

ALUMINUM 6063-T6 .153" THICK



S45796 - WOOD HURRICANE ADAPTER

ALUMINUM 6063-T6 .09" THICK



EXTERIOR SILL FLASHING

ALUMINUM 3003-H14 .04" THICK

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

WOOD CURTAIN WALL – 102°
IMPACT
COMPONENTS

DRAWN:	DWG NO.	REV
TJH	08–01077	–
SCALE NTS	DATE 08/06/10	SHEET 8 OF 9

STATE OF TEXAS
LUIS R. LOMAS
101889
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PROFESSIONAL ENGINEER

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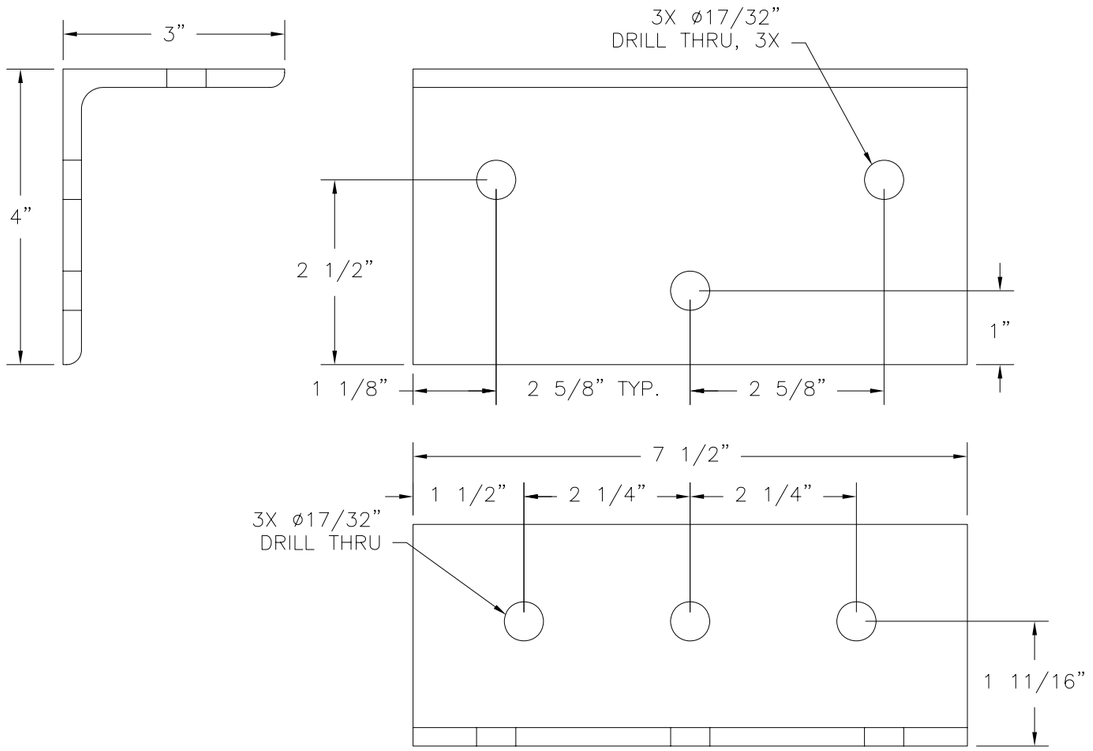
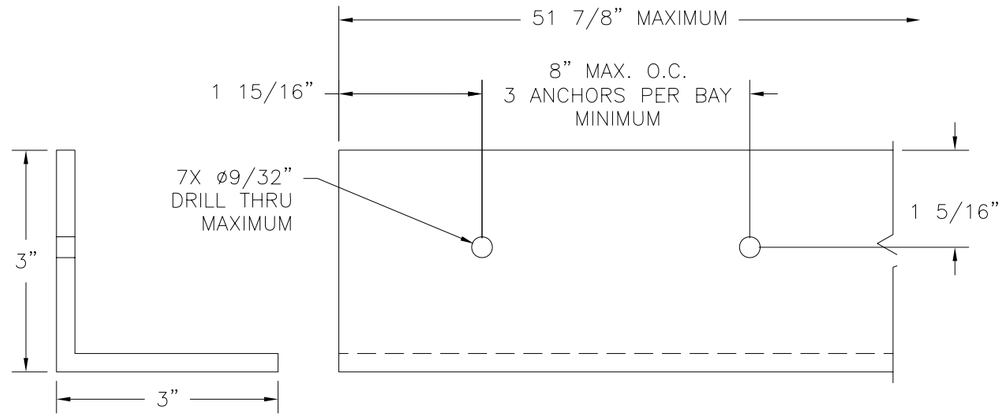


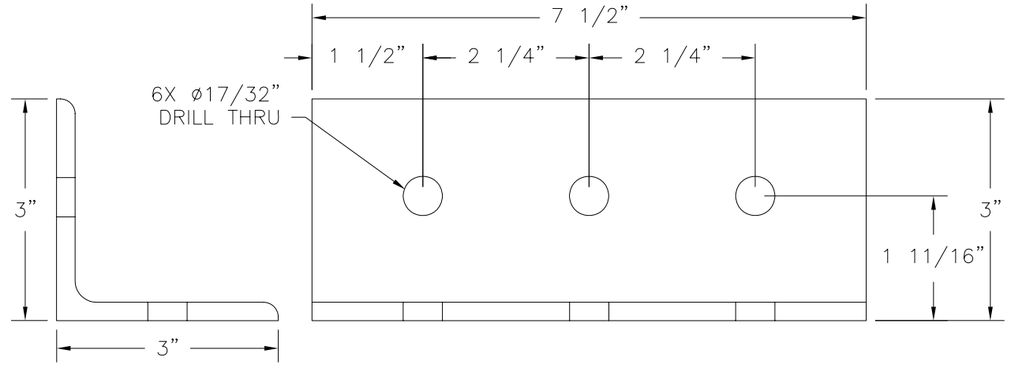
ANGLE CLIP

FOR CONCRETE INSTALLATION
A36 STEEL 1/4" THICK



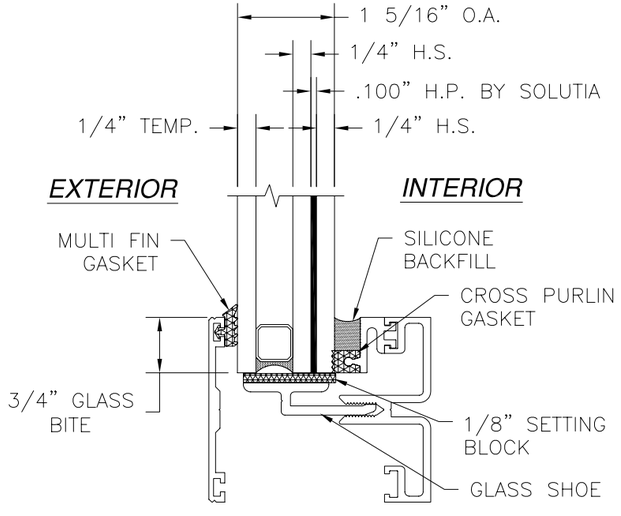
S10799 - SILL F.G.S. INTERIOR ANGLE CLIP

ALUMINUM 6063-T6 1/4" THICK

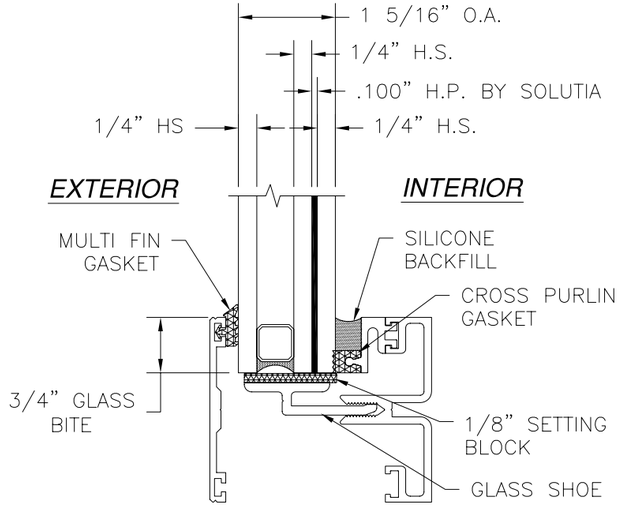


ANGLE CLIP

FOR 2X BUCK/WOOD FRAMING INSTALLATION
A36 STEEL 1/4" THICK



GLAZING DETAIL A



GLAZING DETAIL B

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

WOOD CURTAIN WALL – 102°
IMPACT
COMPONENTS

DRAWN:	DWG NO.	REV
TJH	08–01077	–
SCALE NTS	DATE 08/06/10	SHEET 9 OF 9

STATE OF TEXAS
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