

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
2. WOOD, METAL 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. 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. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
5. SHIMS SHALL BE LOCATED, APPLIED AND MADE FROM MATERIALS AND THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
6. WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
7. FRAME MATERIAL: ALUMINUM 6063-T6.
8. UNITS MUST BE GLAZED PER ASTM E1300, SEE SHEET 3 FOR GLASS DETAILS.
9. APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS WHEN INSTALLED 30FT OR HIGHER ABOVE GROUND LEVEL.
10. FOR ANCHORING INTO WOOD STRUCTURE USE 3/8" LAG BOLTS AND 1/2" LAG BOLTS, REFER TO ANCHORING CHART FOR MINIMUM EMBEDMENT AND EDGE DISTANCES.
11. FOR ANCHORING INTO METAL STRUCTURE USE 3/8"-16 BOLTS AND 1/2"-13 BOLTS WITH WASHERS, LOCKWASHERS AND NUTS. METAL STRUCTURE MUST BE DRILLED AND TAPPED TO ACCOMMODATE ANCHORS. REFER TO ANCHORING CHART FOR MINIMUM EDGE DISTANCES.
12. FOR ANCHORING INTO CONCRETE STRUCTURE USE 3/8" CONCRETE EXPANSION ANCHOR AND 1/4" TAPCONS. REFER TO ANCHORING CHART FOR MINIMUM EDGE DISTANCES.
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:
A. WOOD: MINIMUM SPECIFIC GRAVITY OF G=0.50
B. CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
C. MASONRY: HOLLOW/FILLED BLOCK PER ASTM C90 WITH Fm=2,000PSI MINIMUM.
D. METAL STRUCTURE: STEEL 5/16" THICK MINIMUM FY=33KSI/FU=52KSI
15. UNITS MAY BE ASSEMBLED TOGETHER TO FORM VARIOUS SHAPES AND CONFIGURATIONS. THESE ASSEMBLIES REQUIRE FURTHER ENGINEERING ANALYSIS BY A LICENSED PROFESSIONAL, REFER TO SHEET 4 FOR CONFIGURATIONS SAMPLES.

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12	COMPONENTS

ACURLITE STRUCTURAL SKYLIGHTS
1017 N. VINE ST.
BERWICK, PA 18603

SECURE SERIES STANDARD FIXED SKYLIGHT
SMALL MISSILE IMPACT – HVHZ
NOTES

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A.R.

DWG NO.
08-03777

REV
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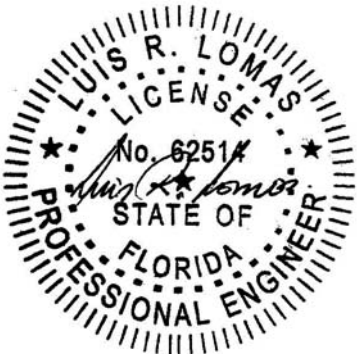
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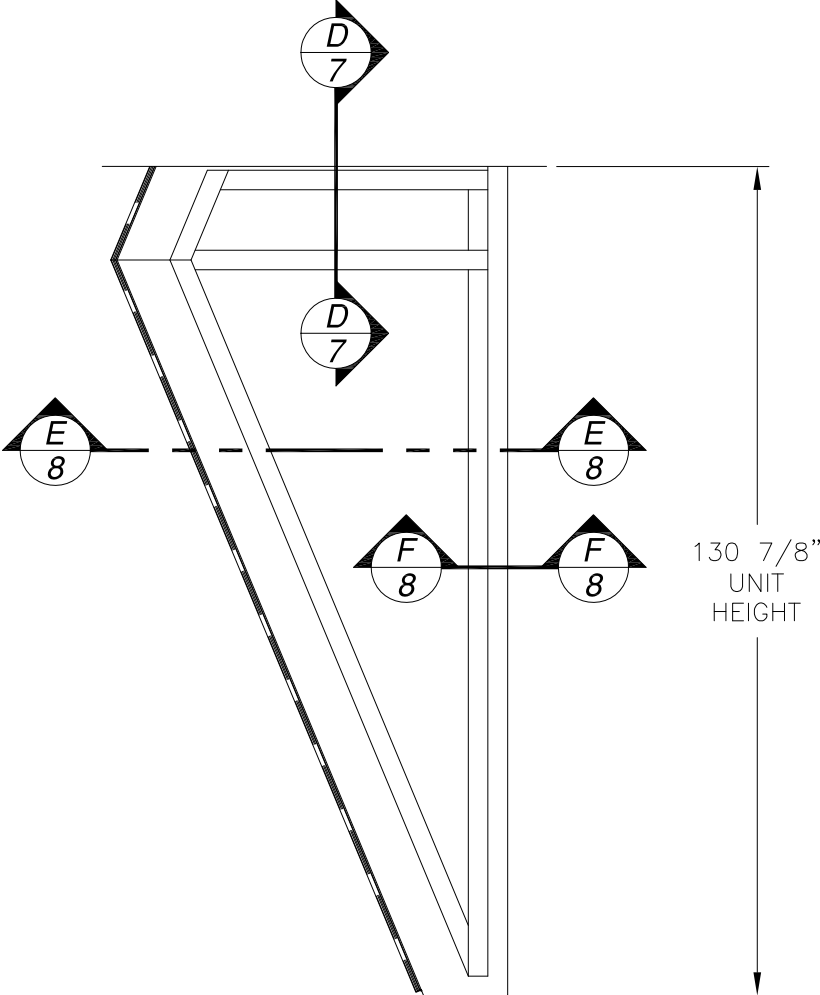
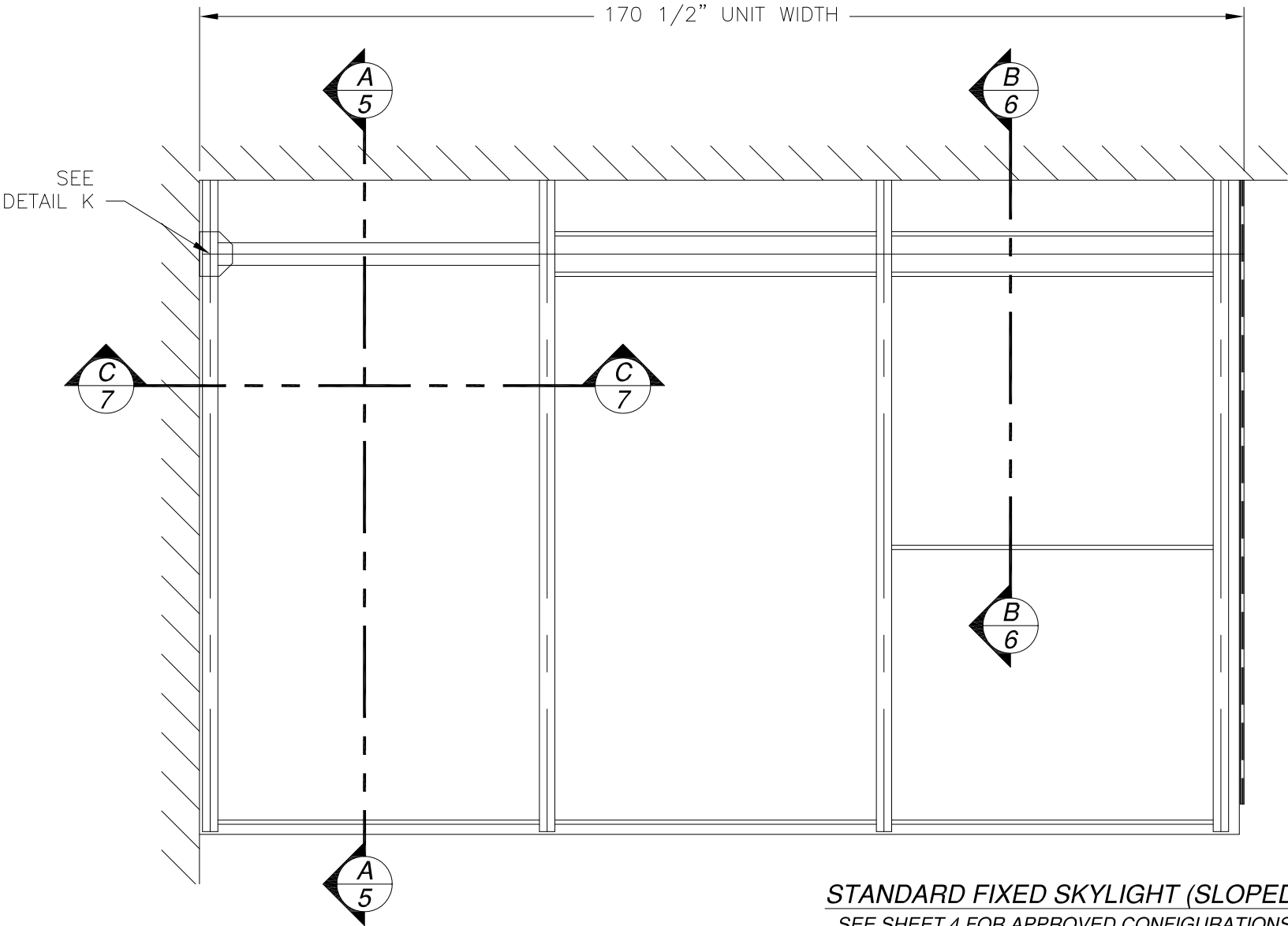
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STANDARD FIXED SKYLIGHT (SLOPED)
SEE SHEET 4 FOR APPROVED CONFIGURATIONS
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
$\pm 120.0\text{PSF}$	SMALL MISSILE IMPACT

MISSILE LEVEL A, WIND ZONE 4 AND HVHZ

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ACURLITE STRUCTURAL SKYLIGHTS
1017 N. VINE ST.
BERWICK, PA 18603

SECURE SERIES STANDARD FIXED SKYLIGHT
SMALL MISSILE IMPACT – HVHZ
ELEVATION

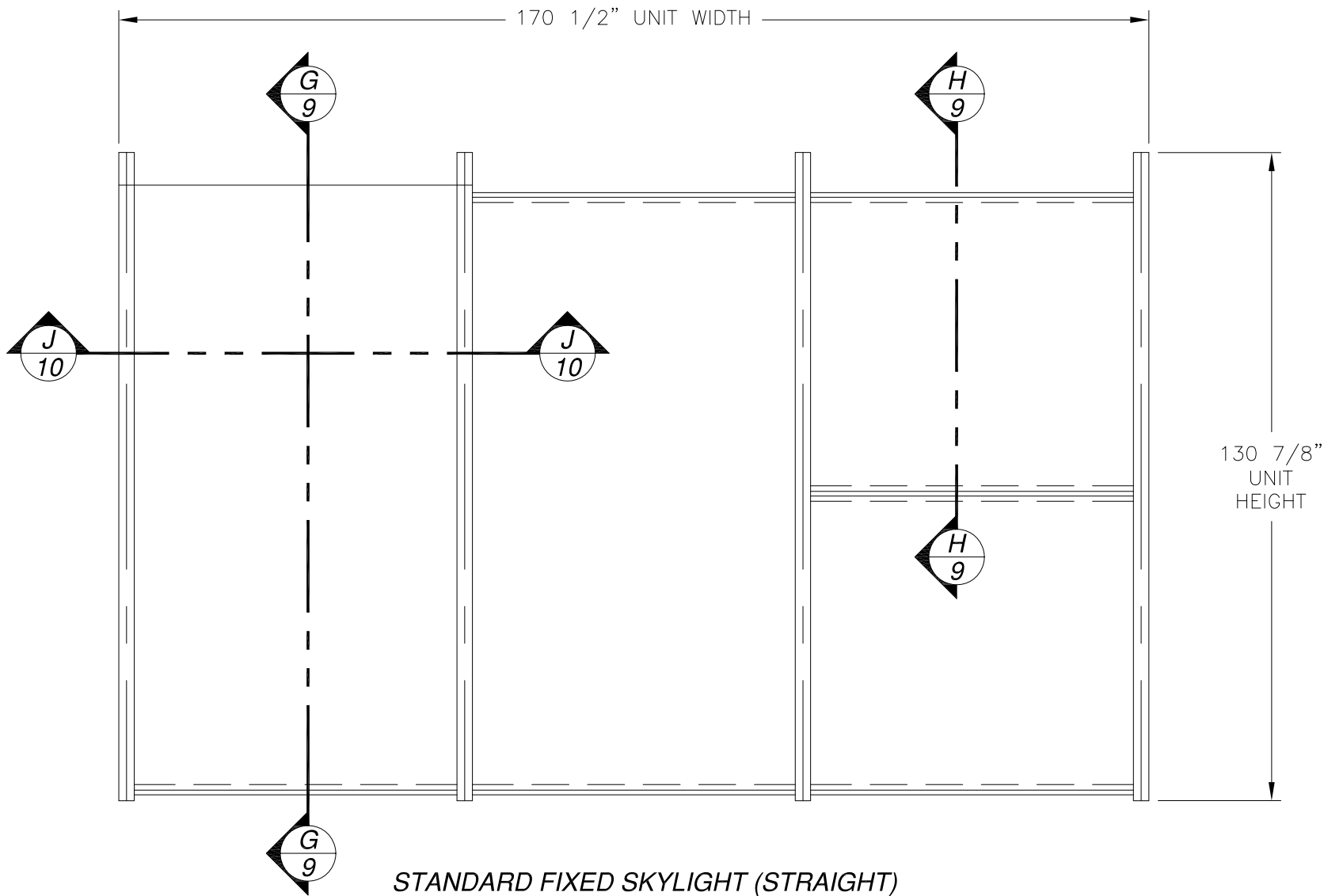
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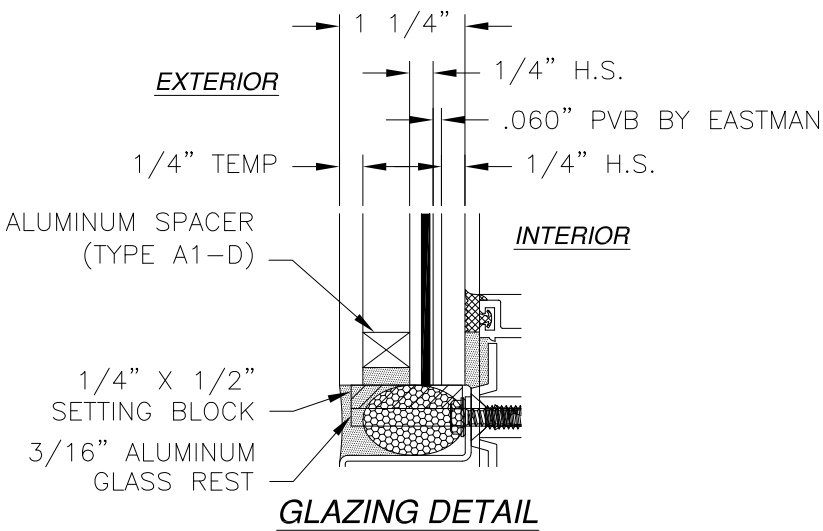
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STANDARD FIXED SKYLIGHT (STRAIGHT)
SEE SHEET 4 FOR APPROVED CONFIGURATIONS
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±120.0PSF	SMALL MISSILE IMPACT

MISSILE LEVEL A, WIND ZONE 4 AND HVHZ



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1017 N. VINE ST.
BERWICK, PA 18603

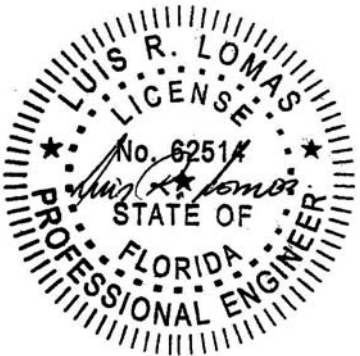
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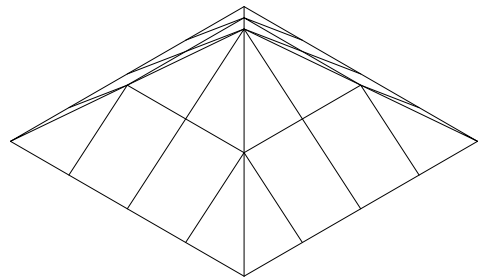
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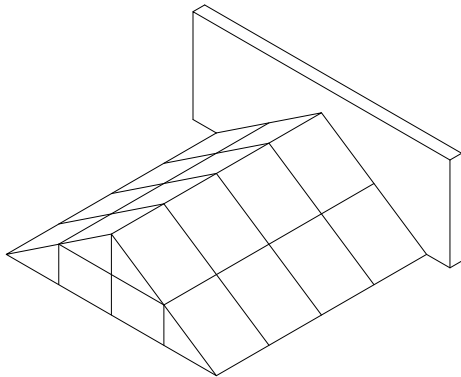
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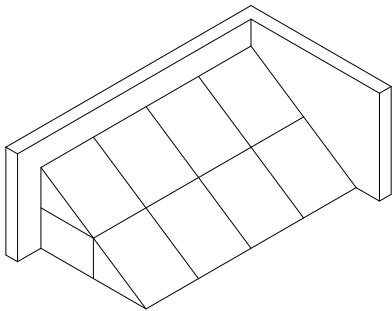
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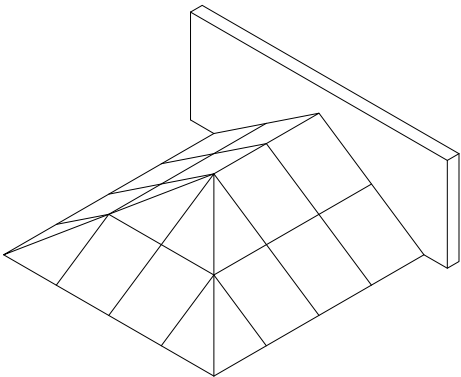
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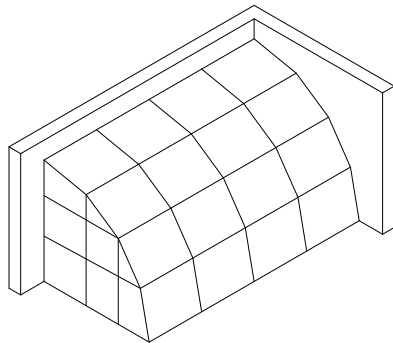
DOUBLE PITCH WITH GABLE



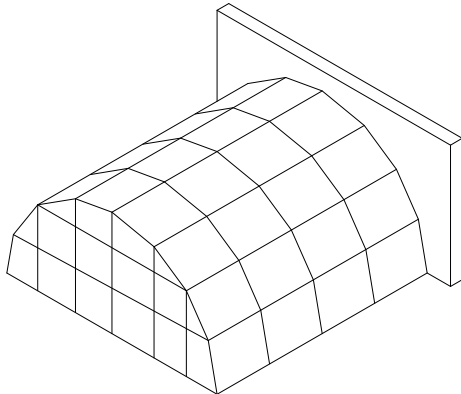
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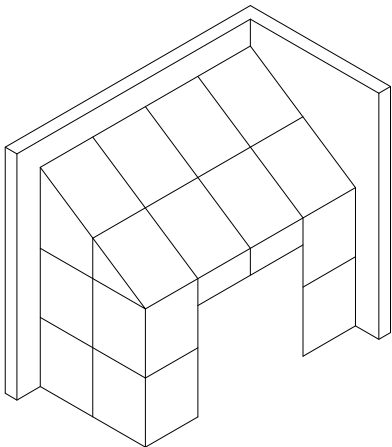
DOUBLE PITCH WITH HIP



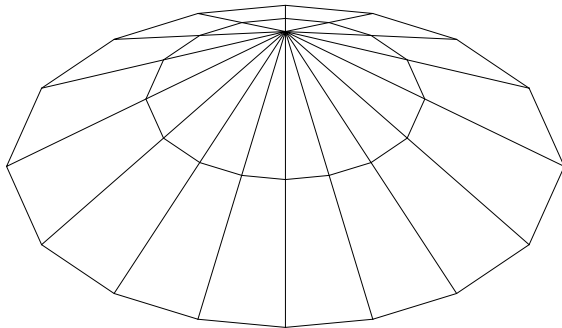
SEGMENTED BARRELL QUATER VAULT
WITH GABLE



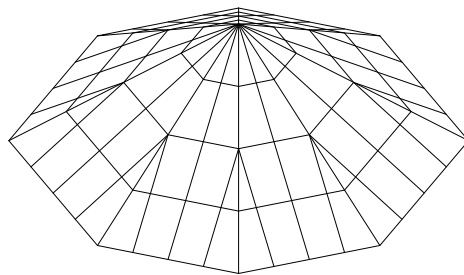
SEGMENTED BARRELL HALF VAULT
WITH GABLE



STRAIGHT EAVE LEAN-TO
WITH GABLE



POLYGON

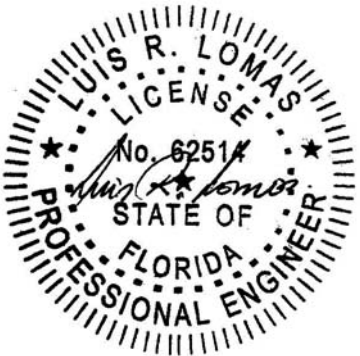


POLYGON WITH JACK RAFTERS

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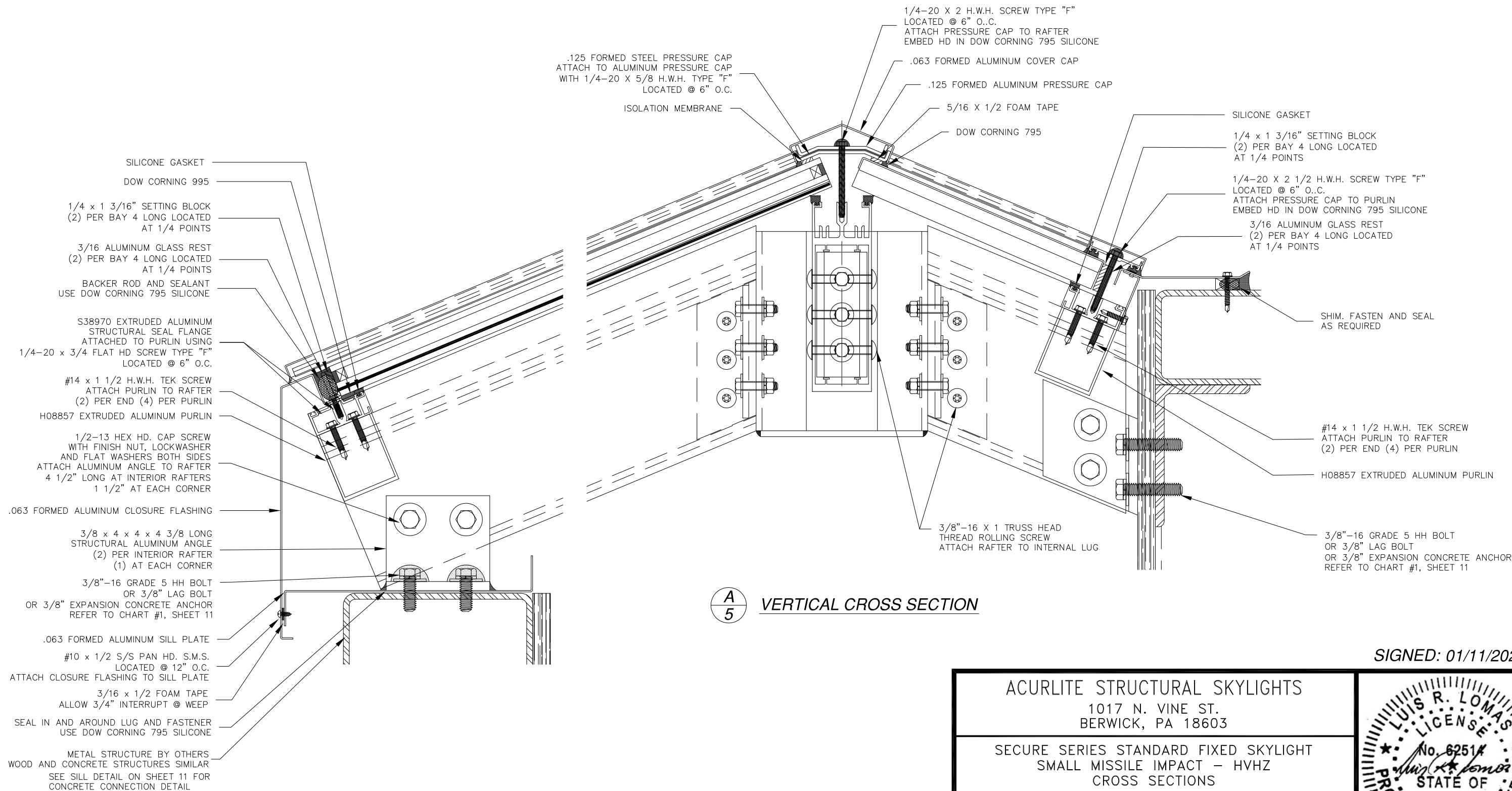
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ACURLITE STRUCTURAL SKYLIGHTS 1017 N. VINE ST. BERWICK, PA 18603		
SECURE SERIES STANDARD FIXED SKYLIGHT SMALL MISSILE IMPACT – HVHZ APPROVED CONFIGURATIONS		
DRAWN: A.R.	DWG NO. 08-03777	REV -
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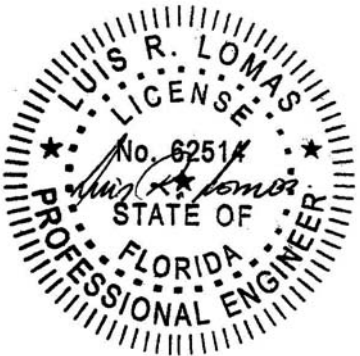
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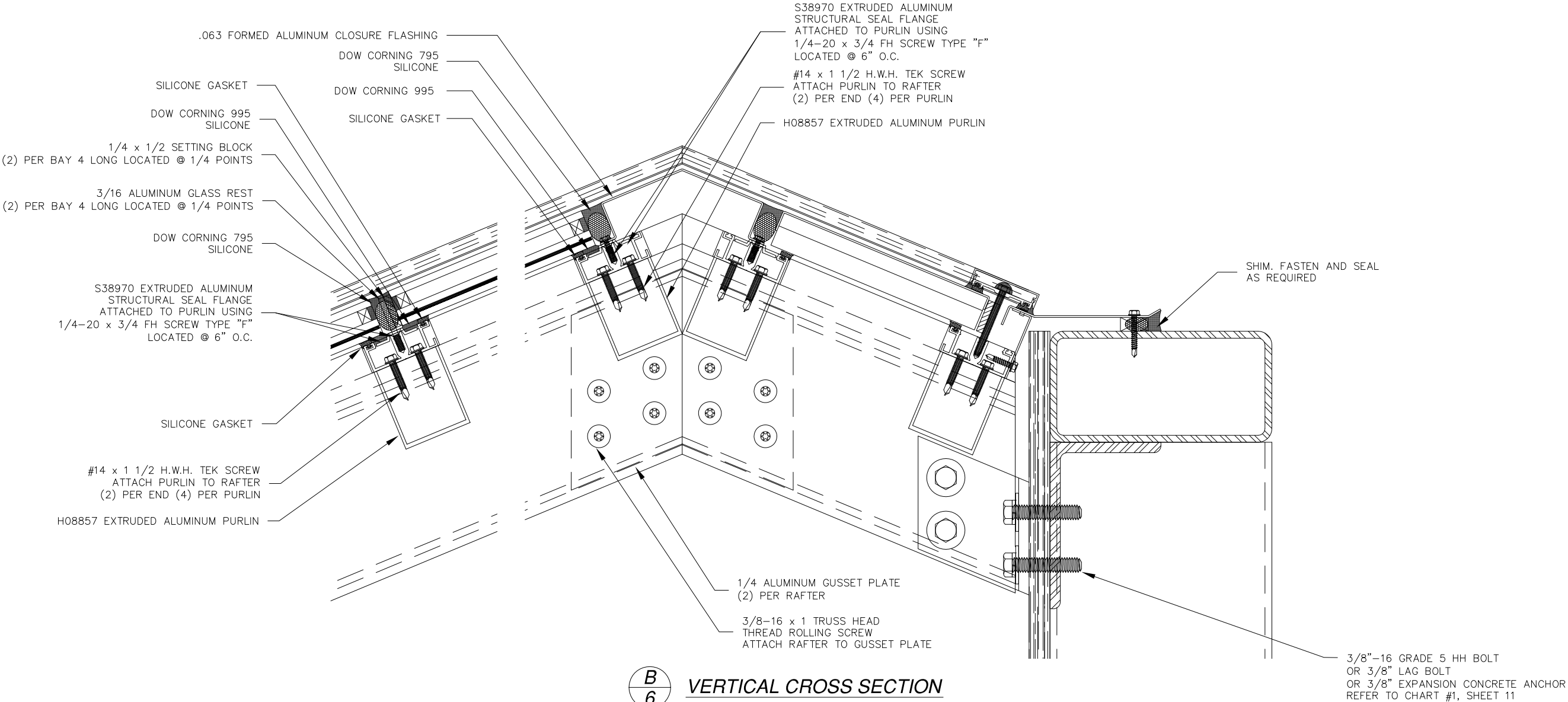
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ACURLITE STRUCTURAL SKYLIGHTS 1017 N. VINE ST. BERWICK, PA 18603		
SECURE SERIES STANDARD FIXED SKYLIGHT SMALL MISSILE IMPACT - HVHZ CROSS SECTIONS		
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B

6

VERTICAL CROSS SECTION

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ACURLITE STRUCTURAL SKYLIGHTS

1017 N. VINE ST.
BERWICK, PA 18603

SECURE SERIES STANDARD FIXED SKYLIGHT

SMALL MISSILE IMPACT – HVHZ

CROSS SECTIONS

DRAWN: A.R.

DWG NO. 08-03777

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SHEET 6 OF 12

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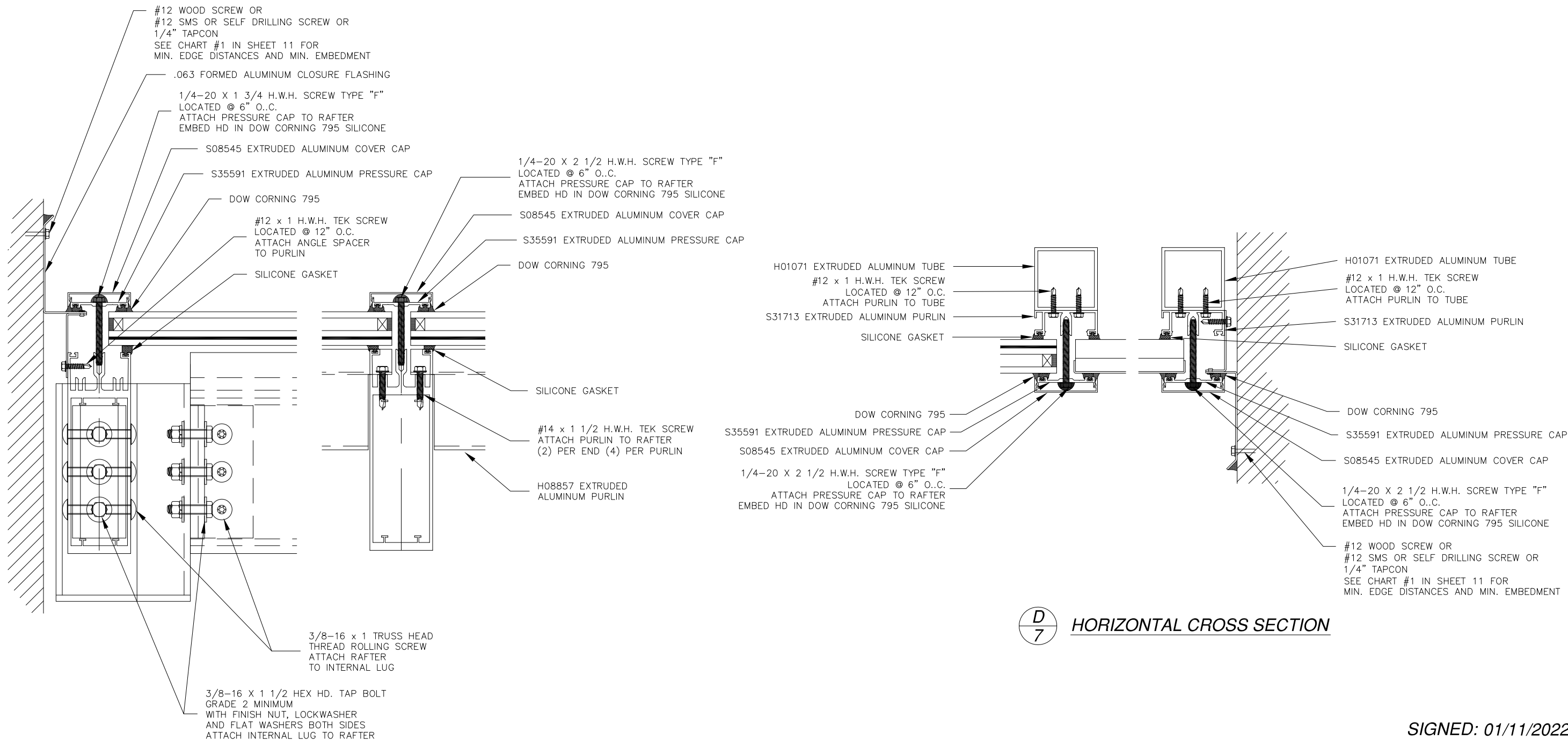
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C
 7

HORIZONTAL CROSS SECTION

D
 7

HORIZONTAL CROSS SECTION

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ACURLITE STRUCTURAL SKYLIGHTS
1017 N. VINE ST.
BERWICK, PA 18603

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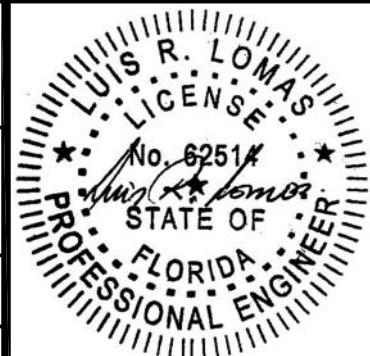
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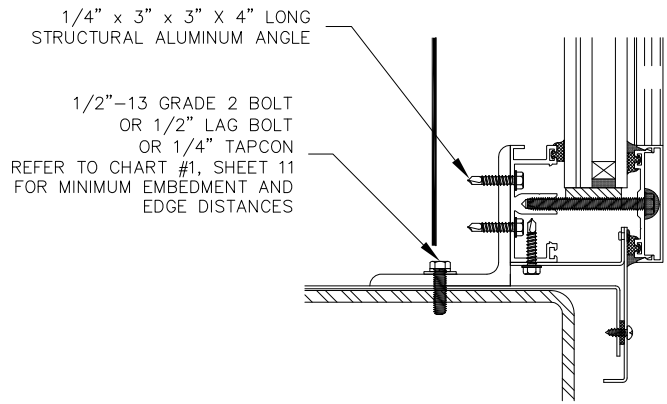
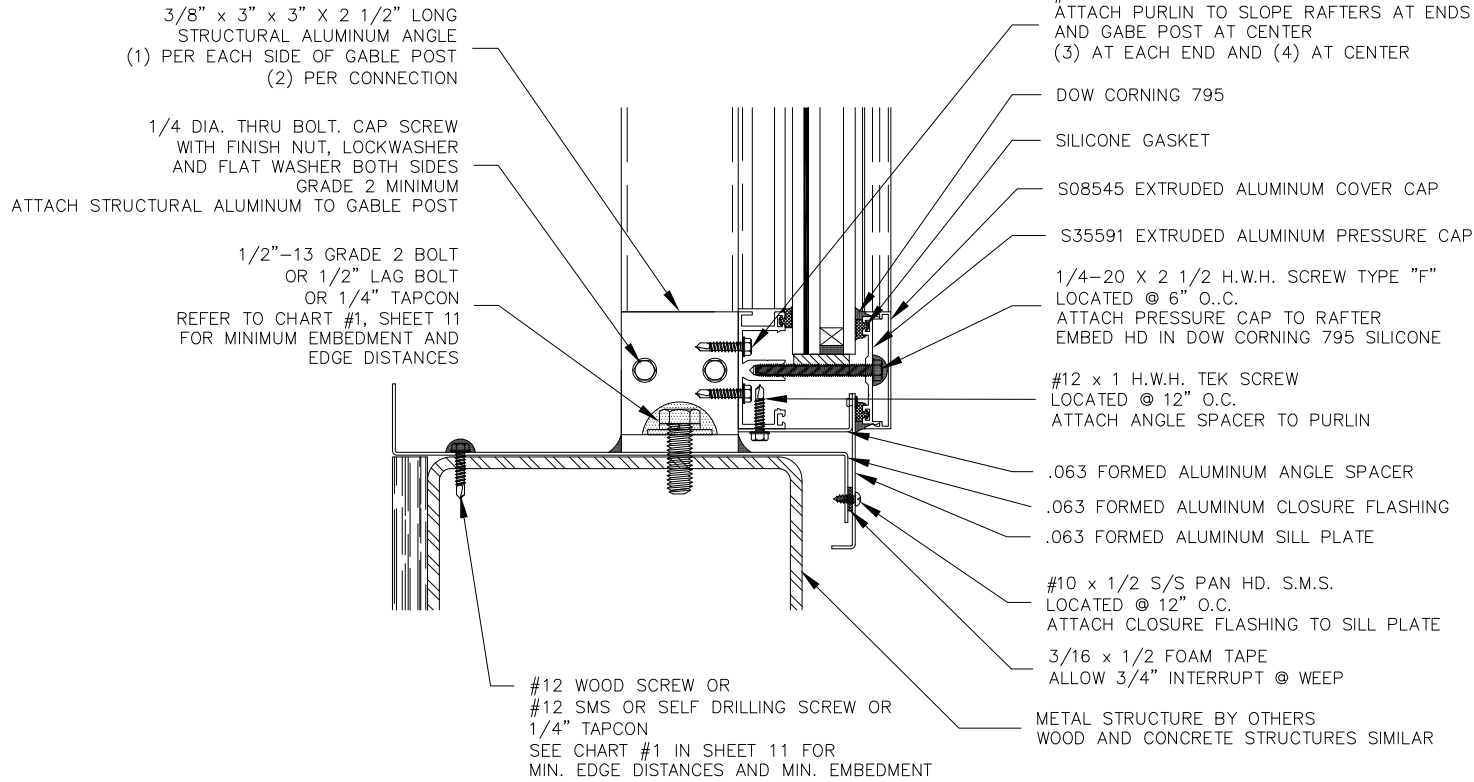
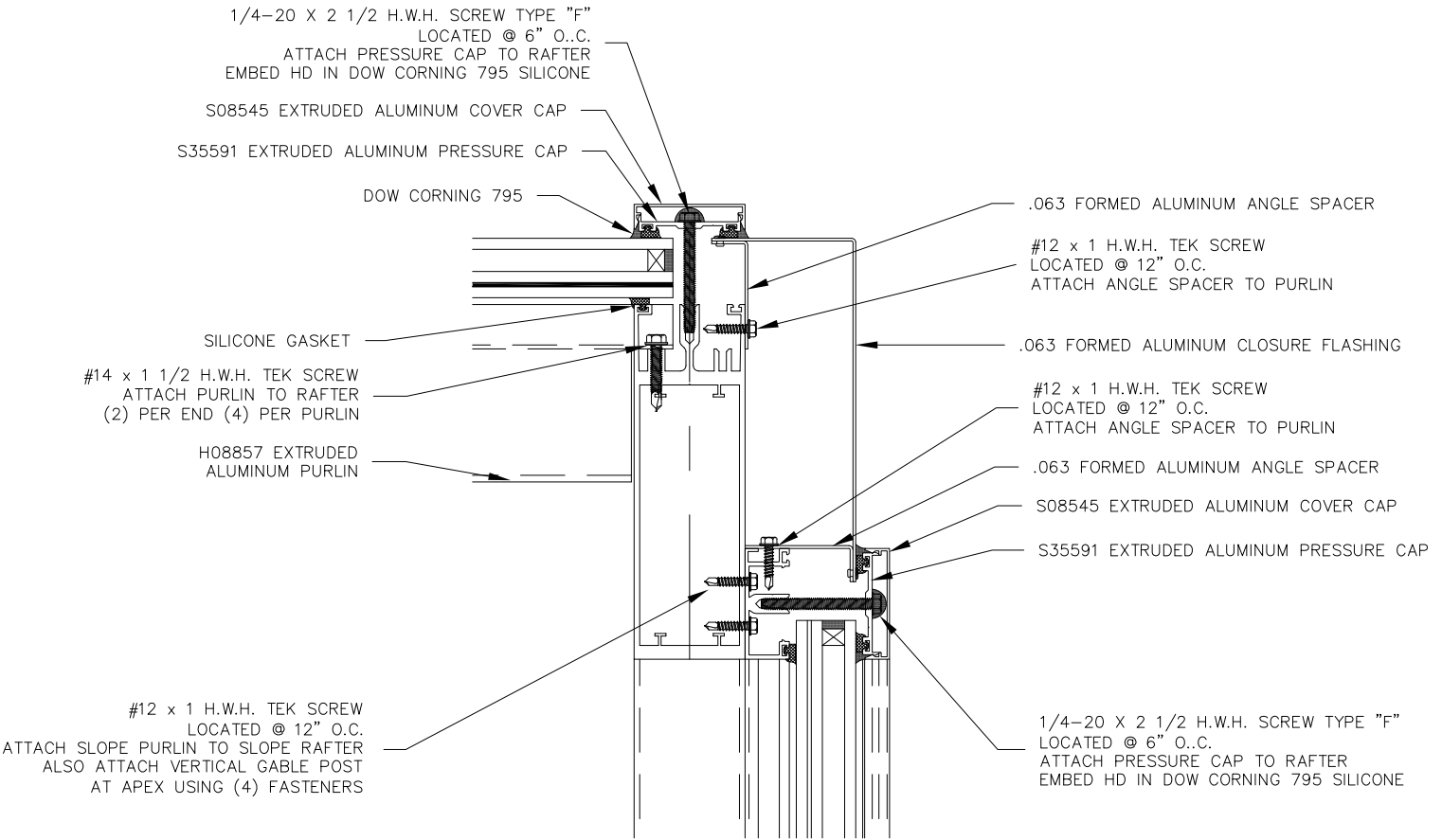
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F
8 VERTICAL CROSS SECTION

E
8 VERTICAL CROSS SECTION

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1017 N. VINE ST.
BERWICK, PA 18603

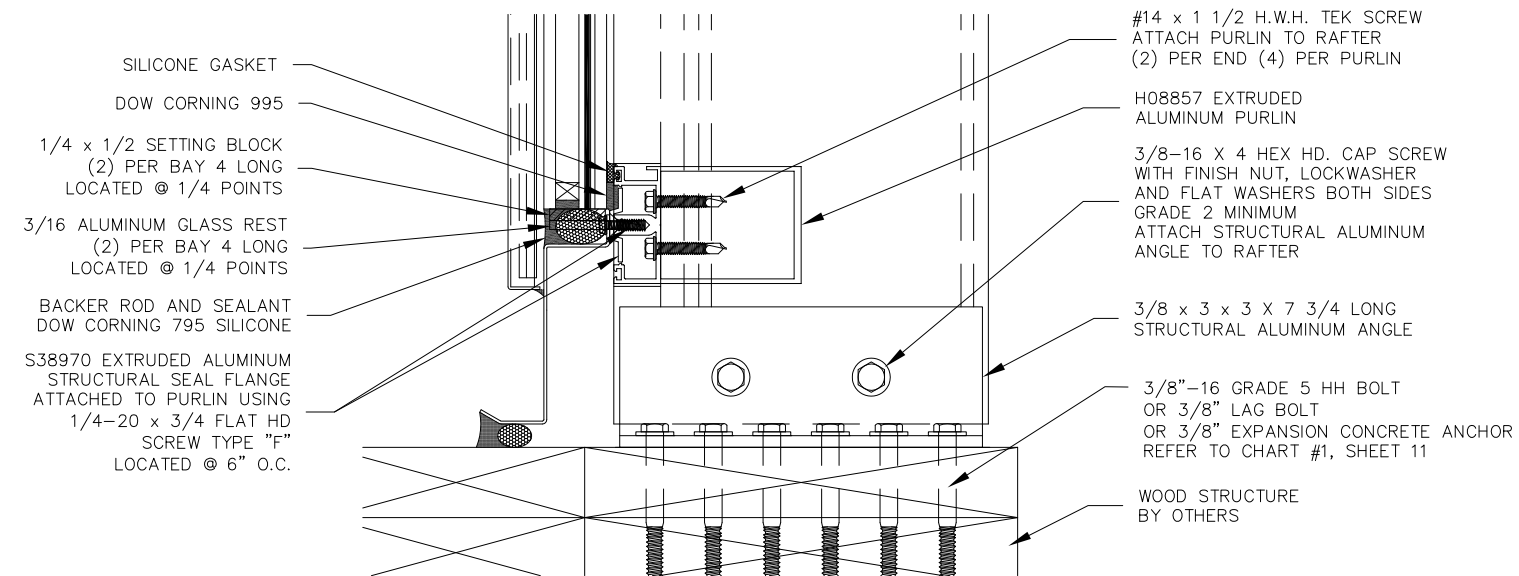
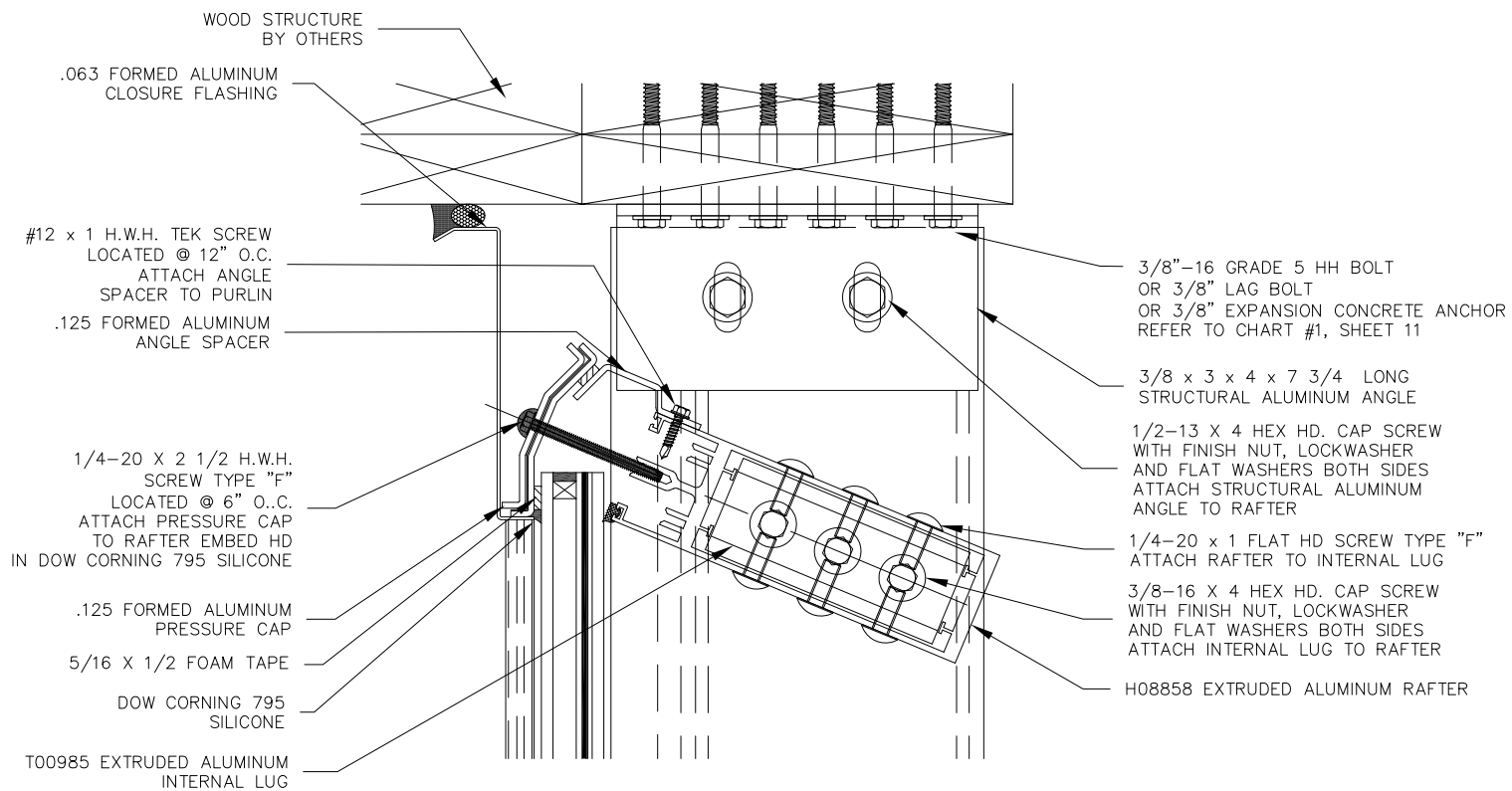
SECURE SERIES STANDARD FIXED SKYLIGHT
SMALL MISSILE IMPACT – HVHZ
CROSS SECTIONS

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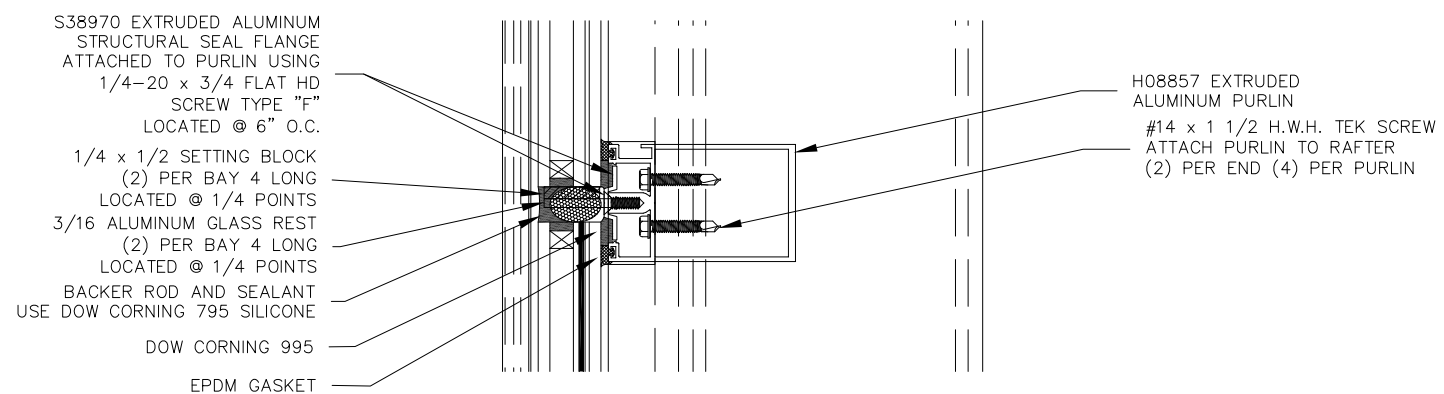
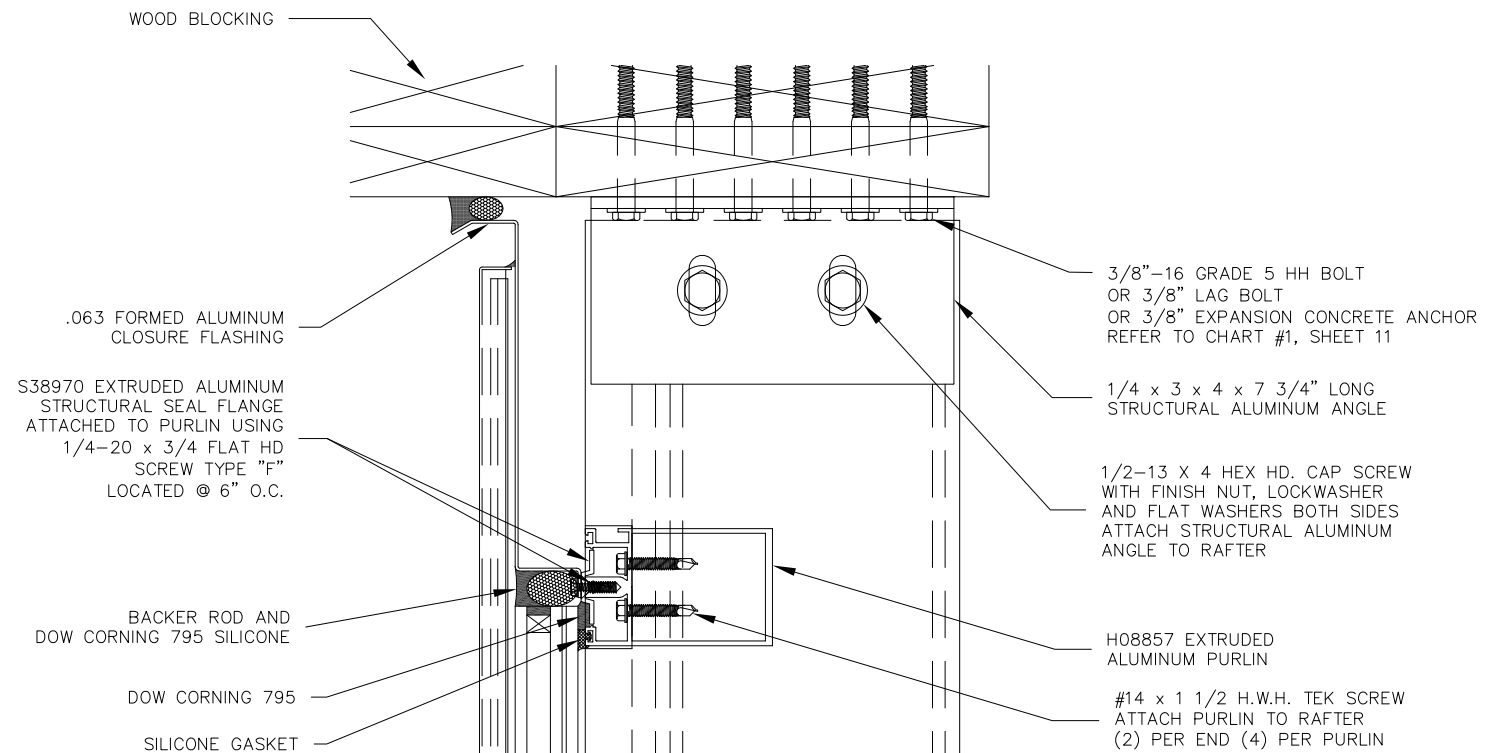
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G
9
VERTICAL CROSS SECTION



H
9
VERTICAL CROSS SECTION

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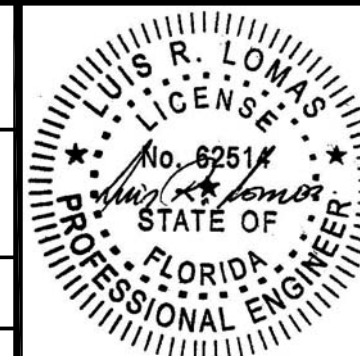
ACURLITE STRUCTURAL SKYLIGHTS

1017 N. VINE ST.
BERWICK, PA 18603

SECURE SERIES STANDARD FIXED SKYLIGHT
SMALL MISSILE IMPACT - HVHZ
CROSS SECTIONS

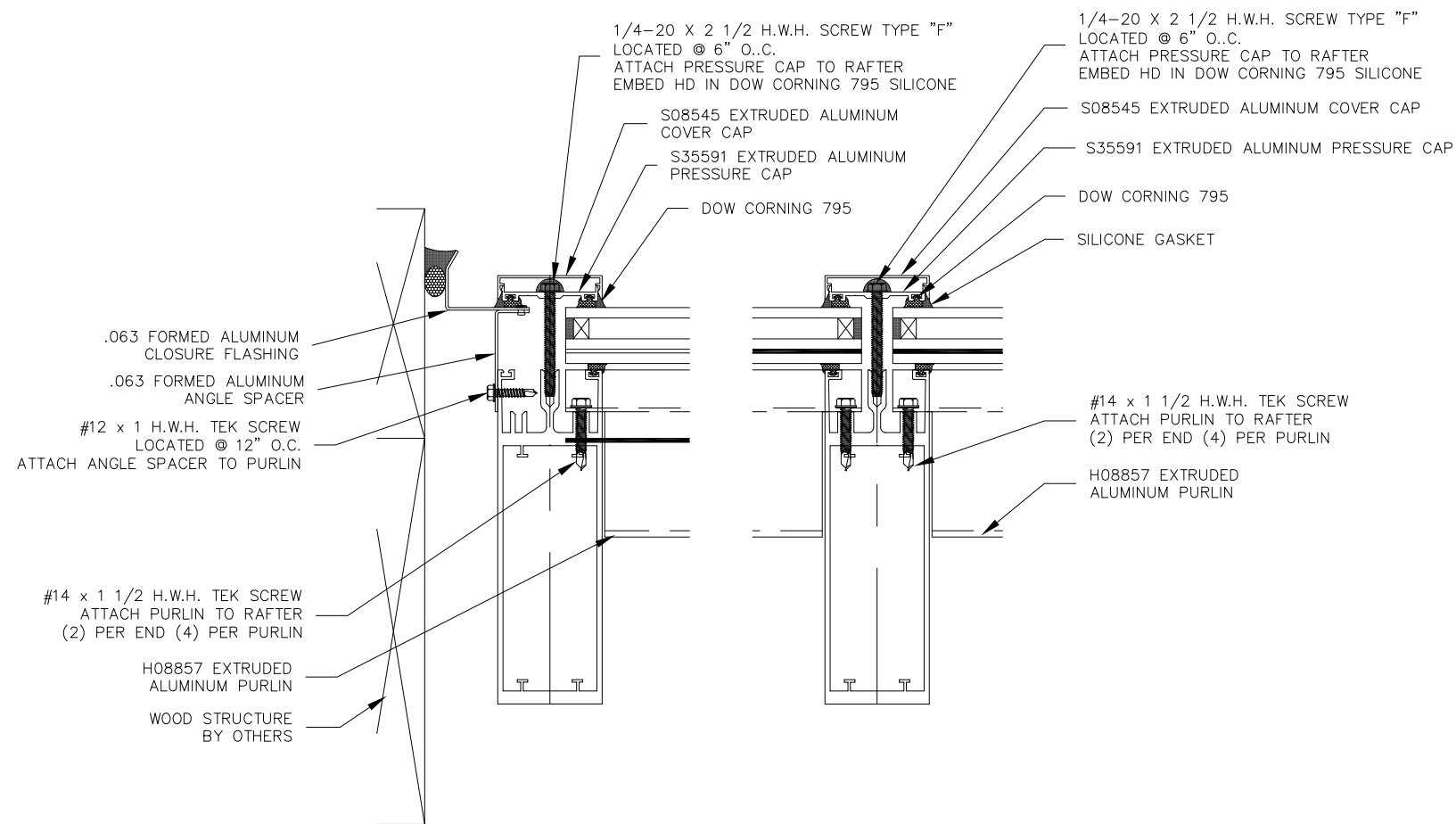
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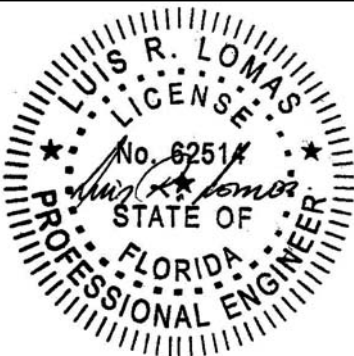
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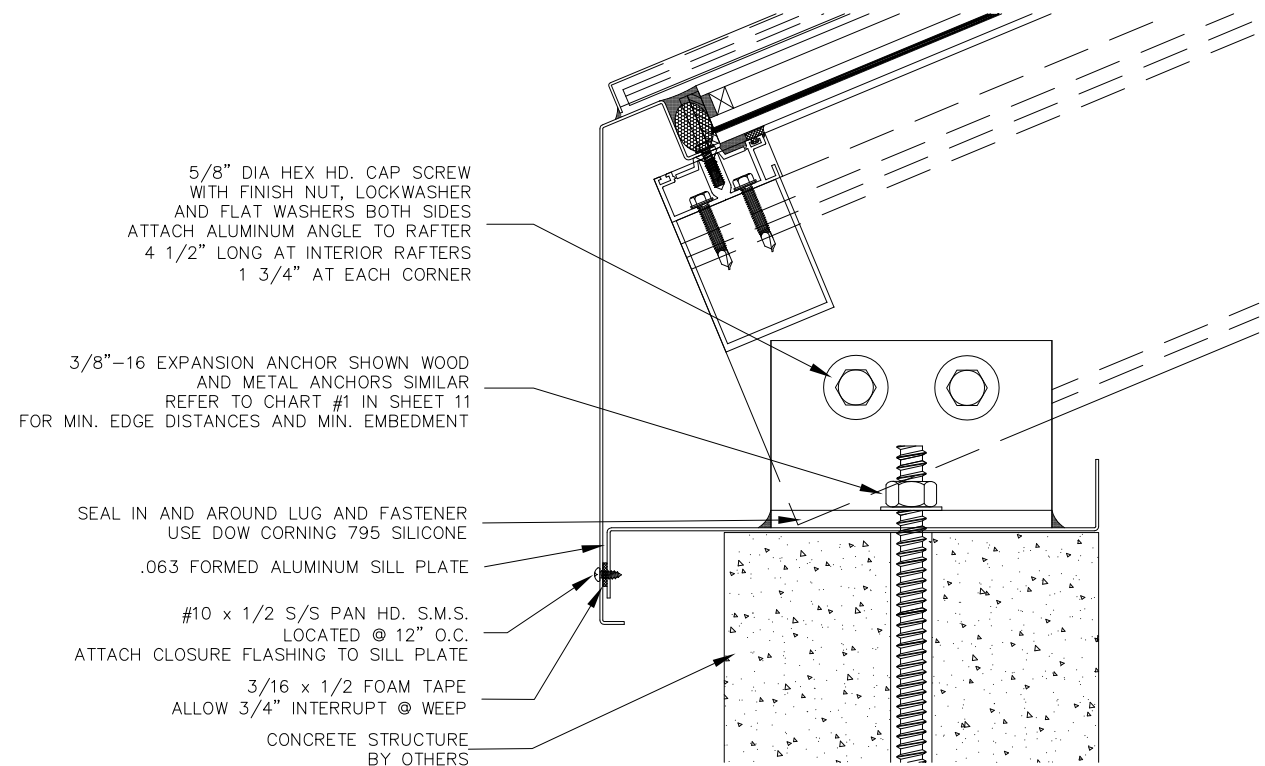
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ACURLITE STRUCTURAL SKYLIGHTS 1017 N. VINE ST. BERWICK, PA 18603			
SECURE SERIES STANDARD FIXED SKYLIGHT SMALL MISSILE IMPACT – HVHZ CROSS SECTIONS			
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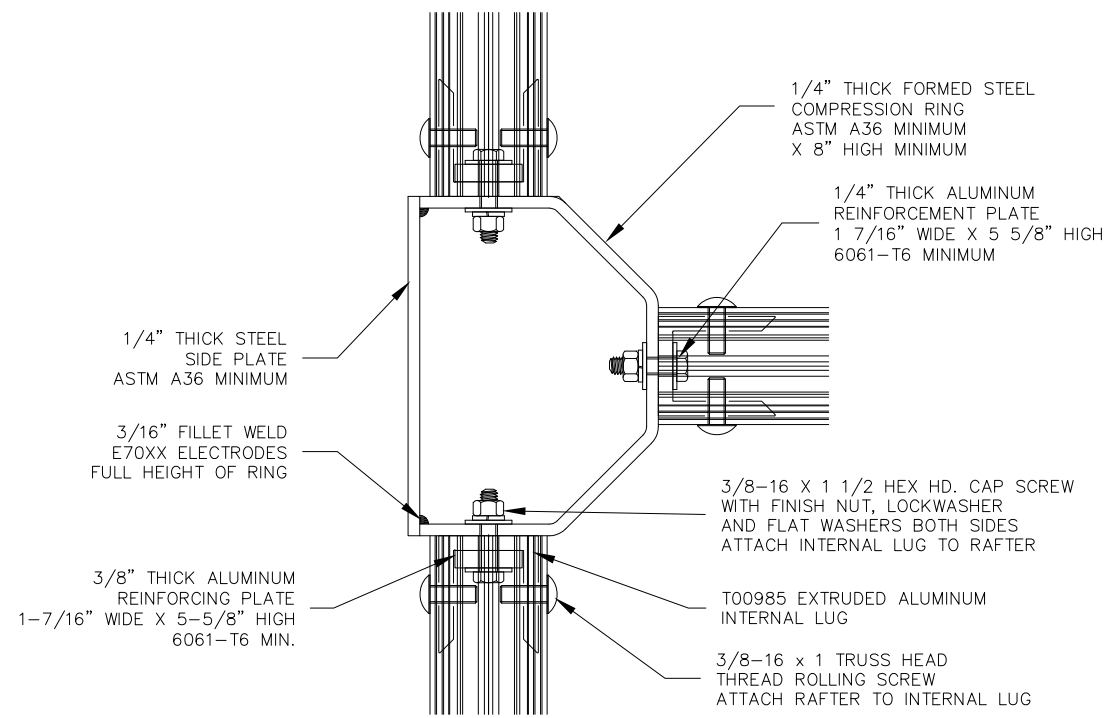


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SILL DETAIL
CONCRETE INSTALLATION



DETAIL K

CHART #1

Anchor Installation Information

SUBSTRATE	ANCHOR		MIN. EDGE DISTANCE	MIN. EMBEDMENT
	Type	Size		
Wood Framing	Lag Screw	1/2"	2"	3"
		3/8"	1 1/2"	2 1/4"
Metal Structure	Grade 5 Hex HD. Tap Bolt	3/8 - 16	1 1/2"	N/A
	Bolt Grade 2	1/2" - 13	2"	N/A
Concrete/Masonry	Tapcon	1/4"	2"	1 1/4"
	Expansion anchor	3/8"	13/16"	3 3/8"

BOLTS INSTALLED INTO METAL STRUCTURE MUST HAVE WASHERS, LOCKWASHER AND NUTS.

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BERWICK, PA 18603

SECURE SERIES STANDARD FIXED SKYLIGHT
SMALL MISSILE IMPACT – HVHZ
INSTALLATION DETAILS

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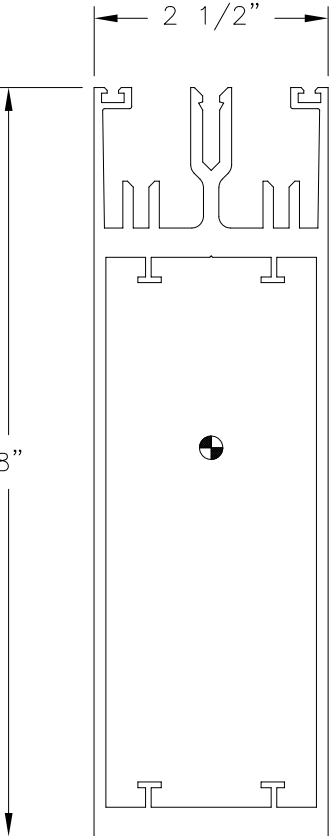
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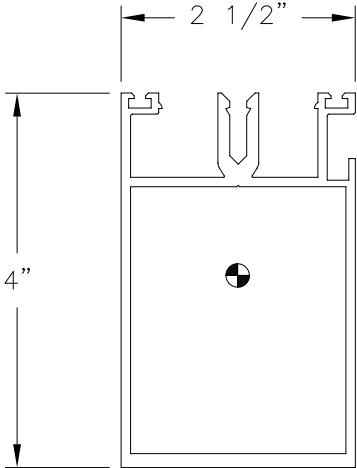
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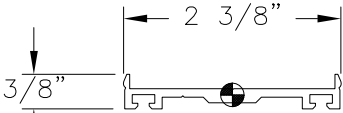
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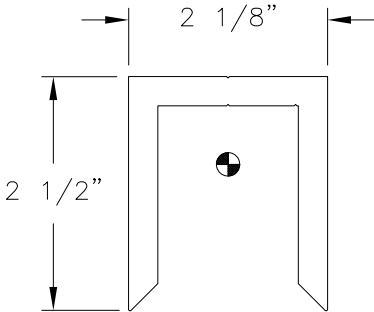
RAFTER (H08858)
ALUMINUM 6063-T6



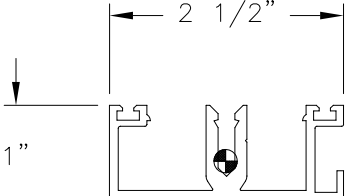
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ALUMINUM 6063-T6



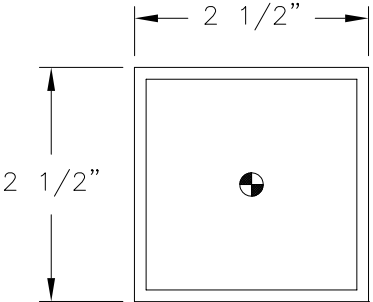
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ALUMINUM 6063-T6



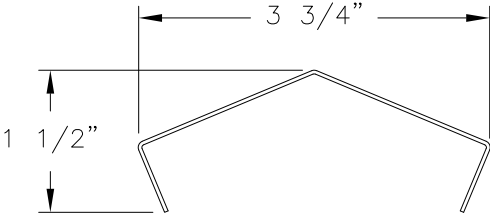
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ALUMINUM 6063-T6



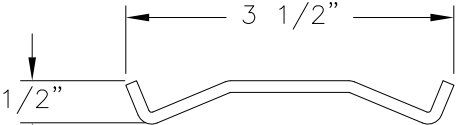
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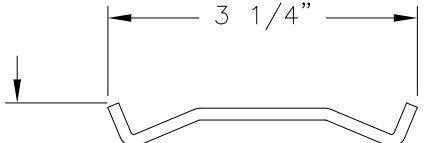
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ALUMINUM 6063-T6



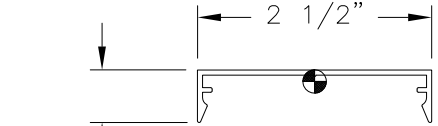
FORMED COVER CAP
ALUMINUM 3003



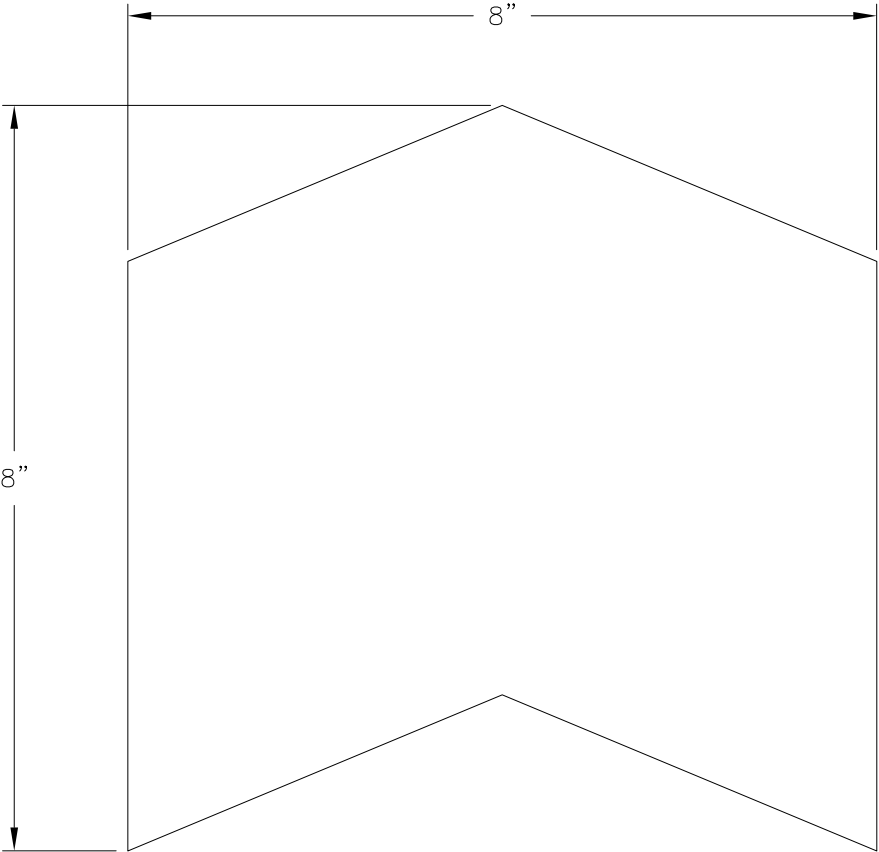
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ALUMINUM 3003



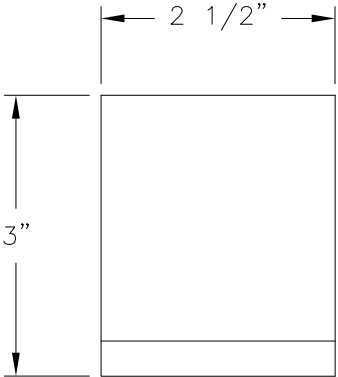
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STEEL ASTM A36



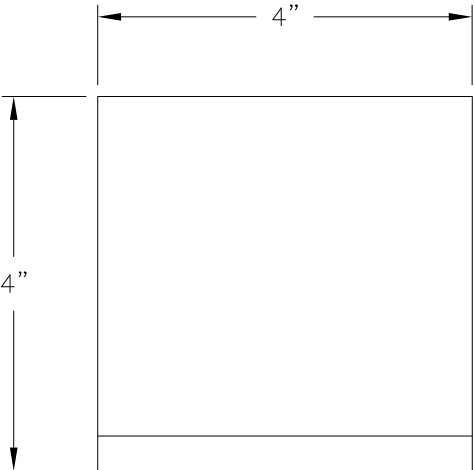
COVER CAP (S08545)
ALUMINUM 6063-T6



GUSSET PLATE
ALUMINUM 6061-T6



STRUCTURAL ANGLE
ALUMINUM 6061-T6



STRUCTURAL ANGLE
ALUMINUM 6061-T6

ACURLITE STRUCTURAL SKYLIGHTS
1017 N. VINE ST.
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DRAWN:
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REV
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SCALE
NTS

DATE
01/06/2022

SHEET
12 OF 12

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