



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov

Acurlite Structural Skylights, Inc.
1017 North Vine Street, P. O. Box 5
Berwick, PA 18603

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 9/16" Laminated Glass and Aluminum Extrusions Skylight System

APPROVAL DOCUMENT: Drawing No. SMNOA-001, titled " Secure Series Small Missile " sheets 1 through 14 of 14, dated February 04, 2010, prepared by Acurlite, signed and sealed by Robert J. McCloy, P.E., on February 08, 2010, bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, City, State, and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

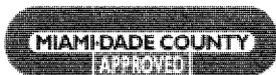
RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
08/11/2010

NOA No. 10-0607.01
Expiration Date: 08/11/2015
Approval Date: 08/11/2010
Page 1

Acurlite Structural Skylights, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. SMNOA-001, titled " Secure Series Small Missile " sheets 1 through 14 of 14, dated February 04, 2010, prepared by Acurlite, signed and sealed by Robert J. McCloy, P.E., on February 08, 2010.*

B. TESTS

1. *Test report on Small Missile Impact Test and Cyclic Load Test on Acurlite Structural Skylights, prepared by HTL, Report No. 0541-0418-09, dated 12/14/09, signed and sealed by Vinu J. Abraham, P.E.*
2. *Test report on Uniform Static air Pressure Test on Acurlite Structural Skylights, prepared by HTL, Report No. 0541-0418-09, dated 12/14/09, signed and sealed by Vinu J. Abraham, P.E.*
3. *Corner joint pull-test, prepared by HTL, Report No. 0541-0910-09, dated 11/05/09, signed and sealed by Vinu J. Abraham, P.E.*

C. CALCULATIONS

1. *Calculation titled " Skylight Structural Calculations ", pages 1 through 359 of 359, dated 01/22/10, signed and sealed by Robert J. McCloy, P.E.*

D. QUALITY ASSURANCE

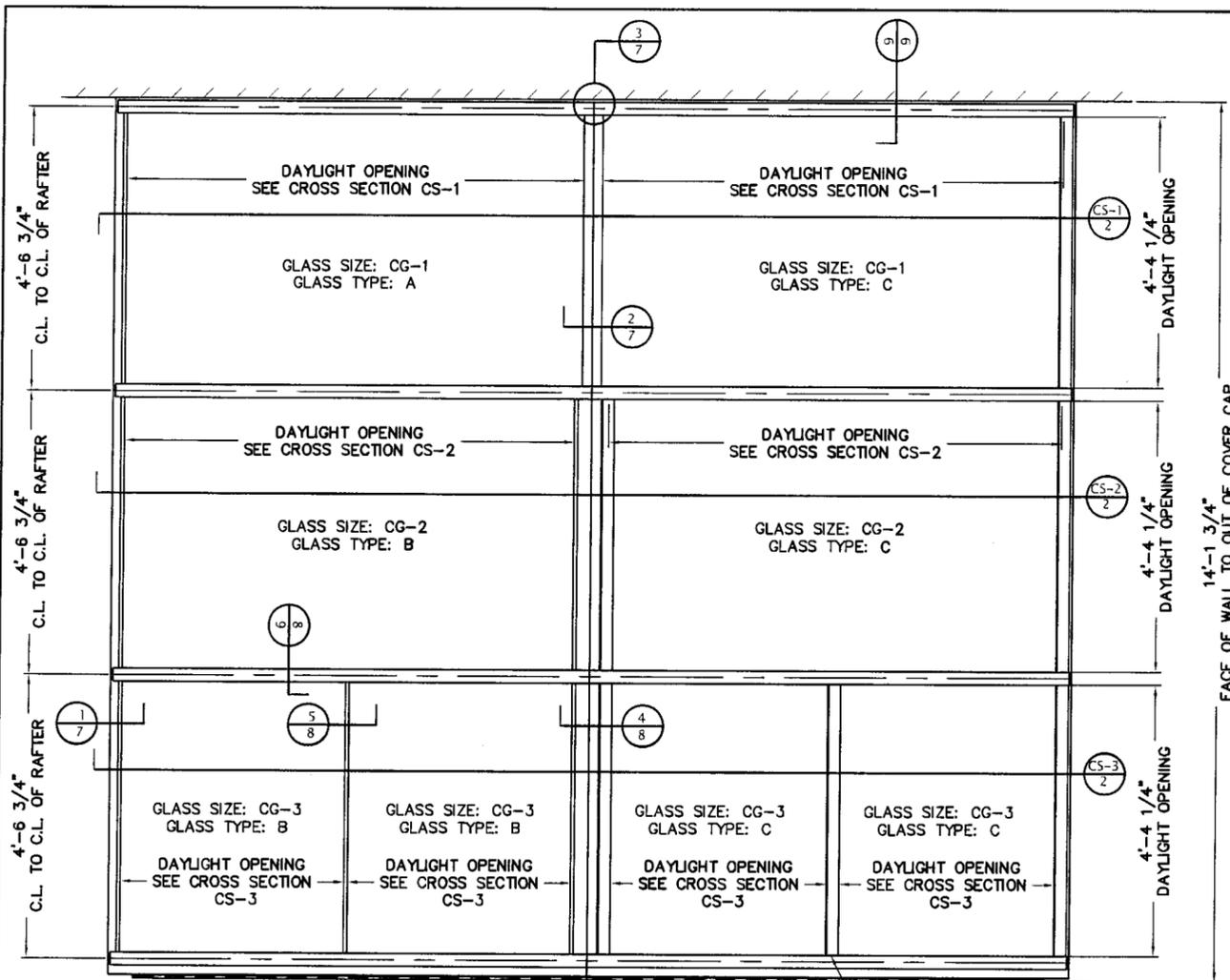
1. *By Miami-Dade County Building Code Compliance office.*

E. MATERIAL CERTIFICATIONS

1. *Die Drawings for Extrusion Members.*

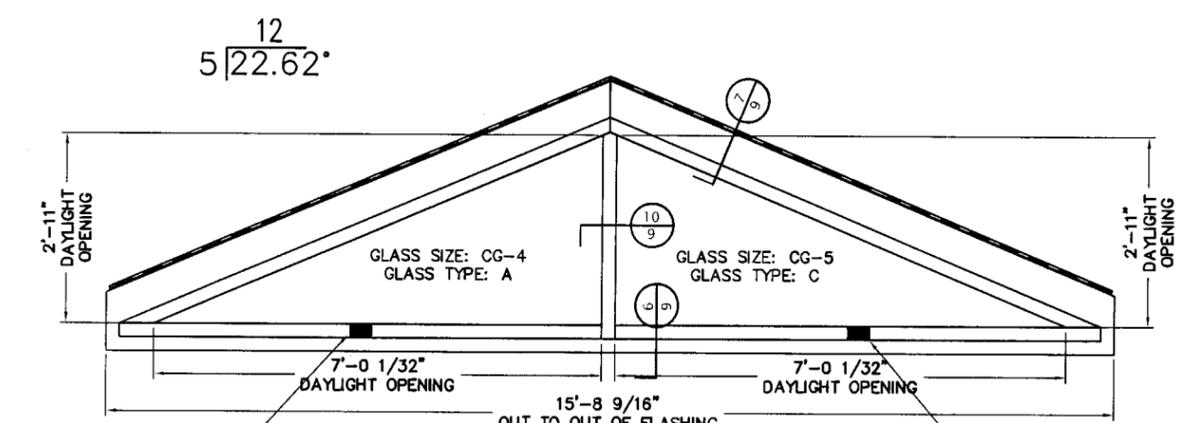


Helmy A. Makar, P.E., M.S.
Senior Product Control Examiner
NOA No. 10-0607.01
Expiration Date: 08/11/2015
Approval Date: 08/11/2010



PLAN VIEW
SCALE: 3/8" = 1'-0"

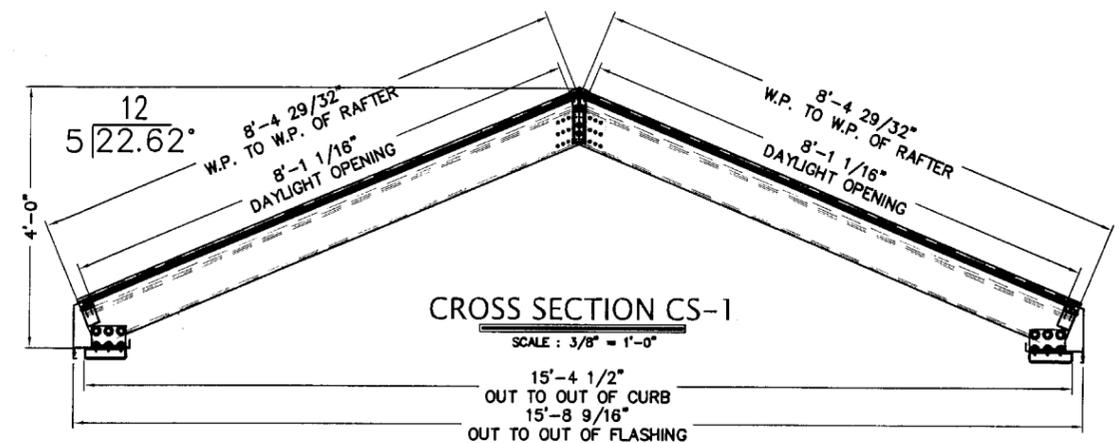
SEAL INTERSECTION OF ALL PRESSURE CAPS AND COVER CAPS. USE DOW CORNING 795



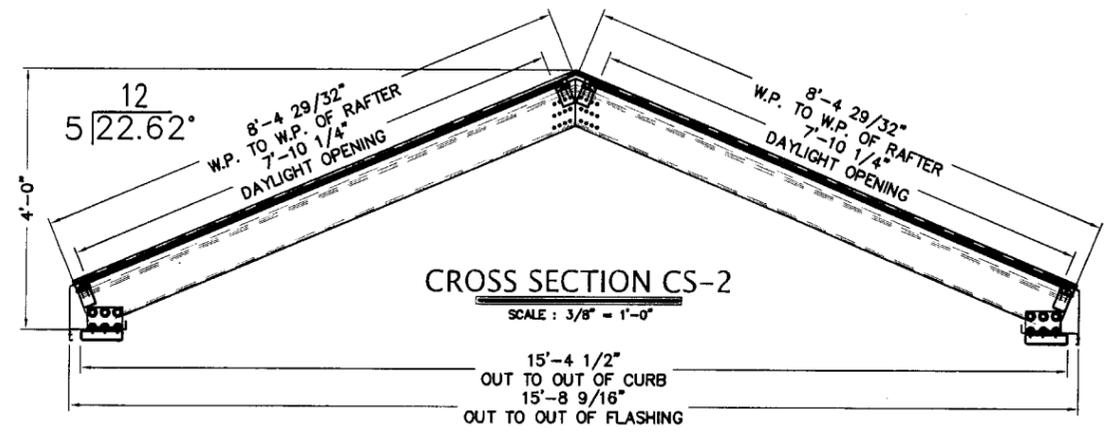
GABLE VIEW
SCALE: 3/8" = 1'-0"

3/8 X 3 X 3 X 4 LONG INTERMEDIATE PURLIN SUPPORT ANGLE ATTACH TO CURB USING 1/2-13 HEX HD TAP BOLT DRILL AND TAP INTO STEEL ATTACH TO PURLIN USING (4) #12 X 1 H.W.H. TEK SCREWS QUANTITY, SIZE AND REQUIREMENT OF SUCH BASED ON SIZE AND GEOMETRY OF SKYLIGHT (NOT PART OF PRODUCT APPROVAL)

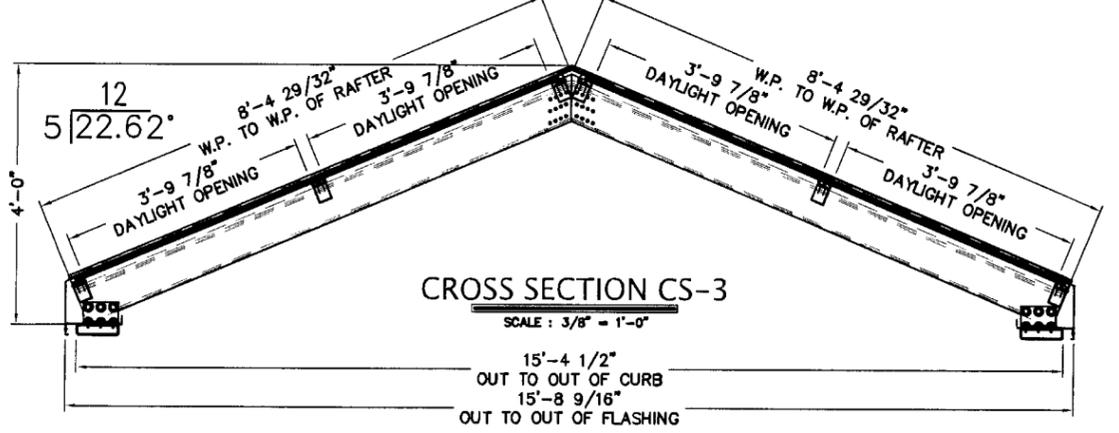
NOTES:
1. SEE SHEET 6 OF 14 FOR GLASS SIZES AND TYPES.



CROSS SECTION CS-1
SCALE: 3/8" = 1'-0"



CROSS SECTION CS-2
SCALE: 3/8" = 1'-0"



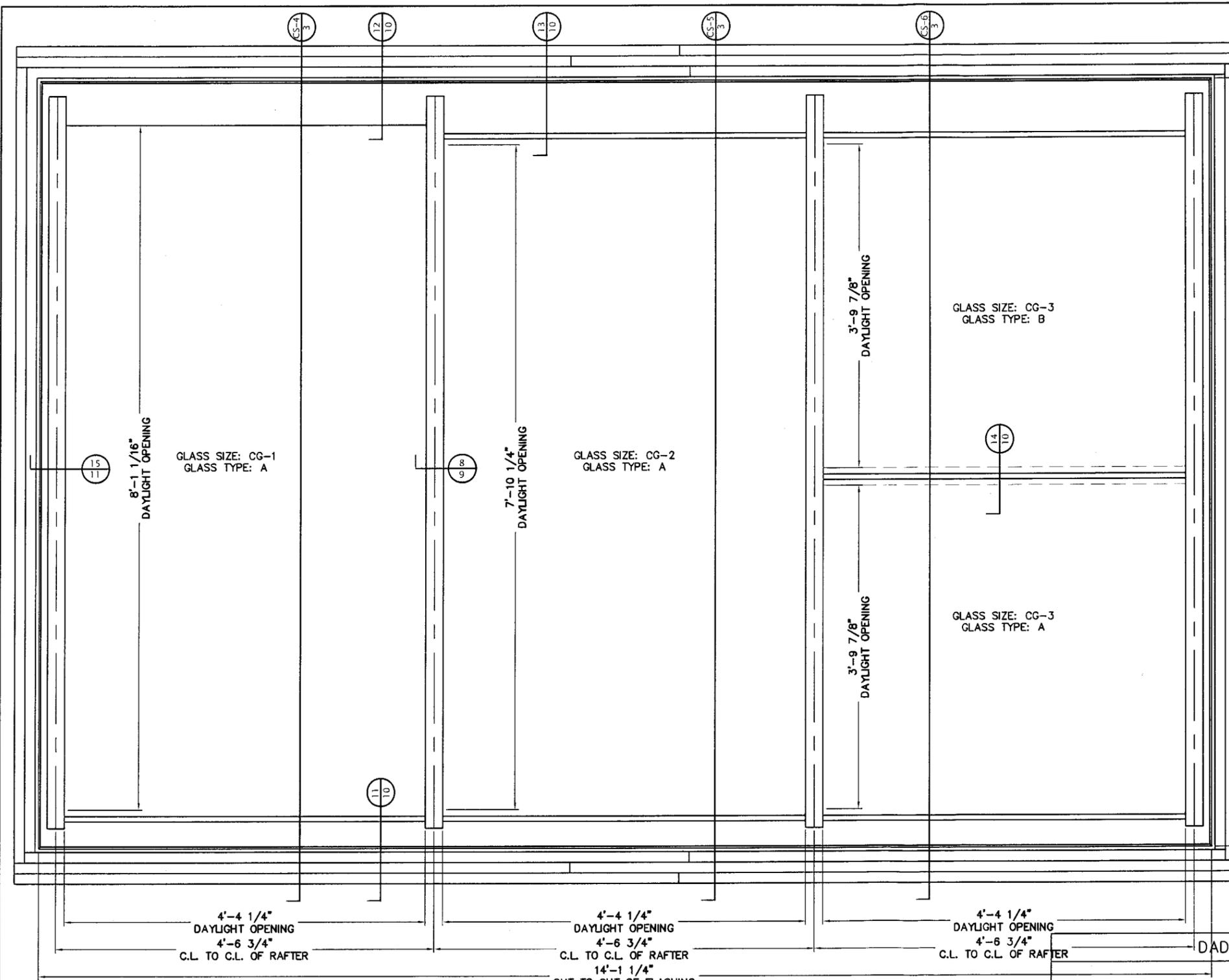
CROSS SECTION CS-3
SCALE: 3/8" = 1'-0"

DADE COUNTY USE		ENGINEER STAMP
Approved as complying with the Florida Building Code Date <u>08/11/2010</u> NOA# <u>10-0607-01</u> Miami Dade Product Control Division By <u>Heather A. [Signature]</u>		[Signature] <u>2/8/10</u>
PRODUCT NAME: SECURE SERIES PRODUCT TYPE: SMALL MISSILE DRAWING TITLE: PLANS AND ELEVATIONS		DOCUMENT NO: SMNOA-001 DRAWN BY: K. MAZZIE CHECKED BY: DATE: 2/4/10 SCALE: AS NOTED DRAWING FILE: SHEET 2 of 14

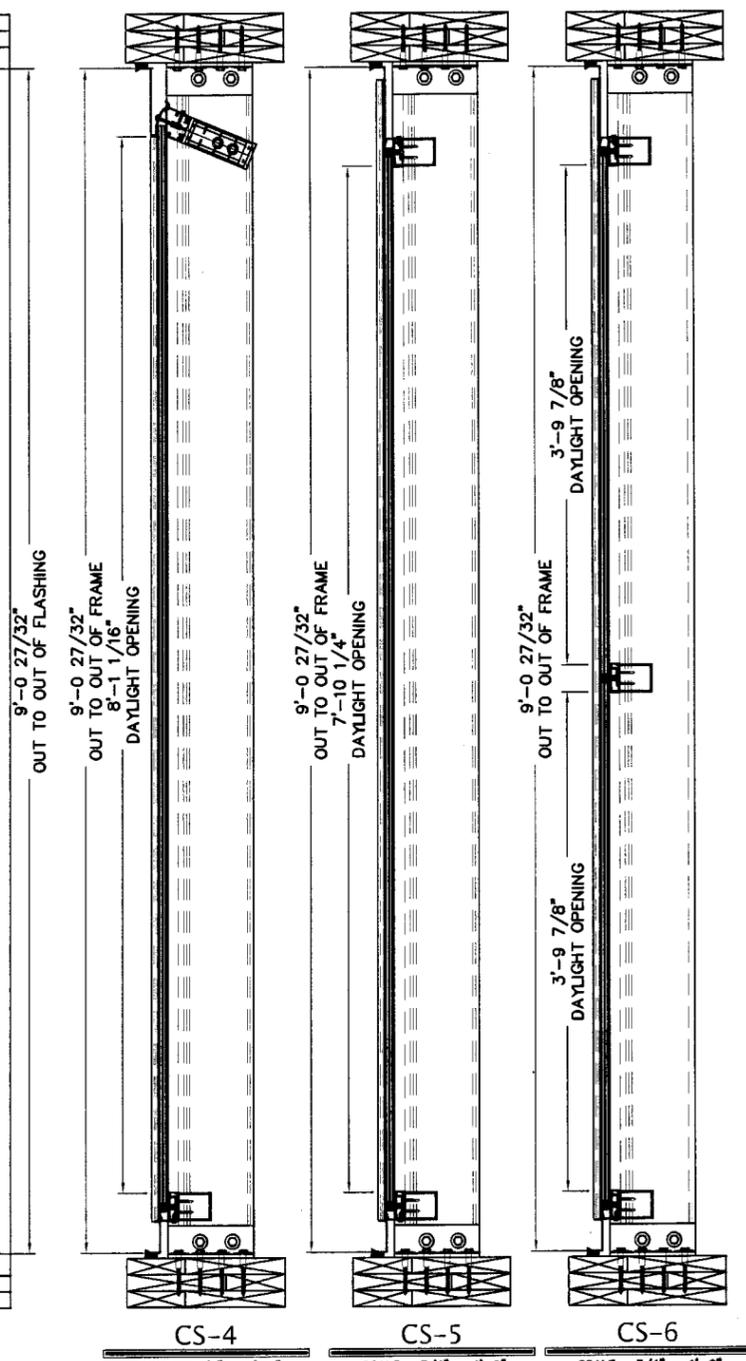
acurlite
engineering light
Acurlite Structural Skylights Inc.
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Barrick, PA 15003
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800.779.4882 @ 717.779.9553

2/4/10

SECURE SERIES
SMALL MISSILE
PLANS AND ELEVATIONS



TEST SPECIMEN ELEVATION
SCALE: 3/4" = 1'-0"



DADE COUNTY USE

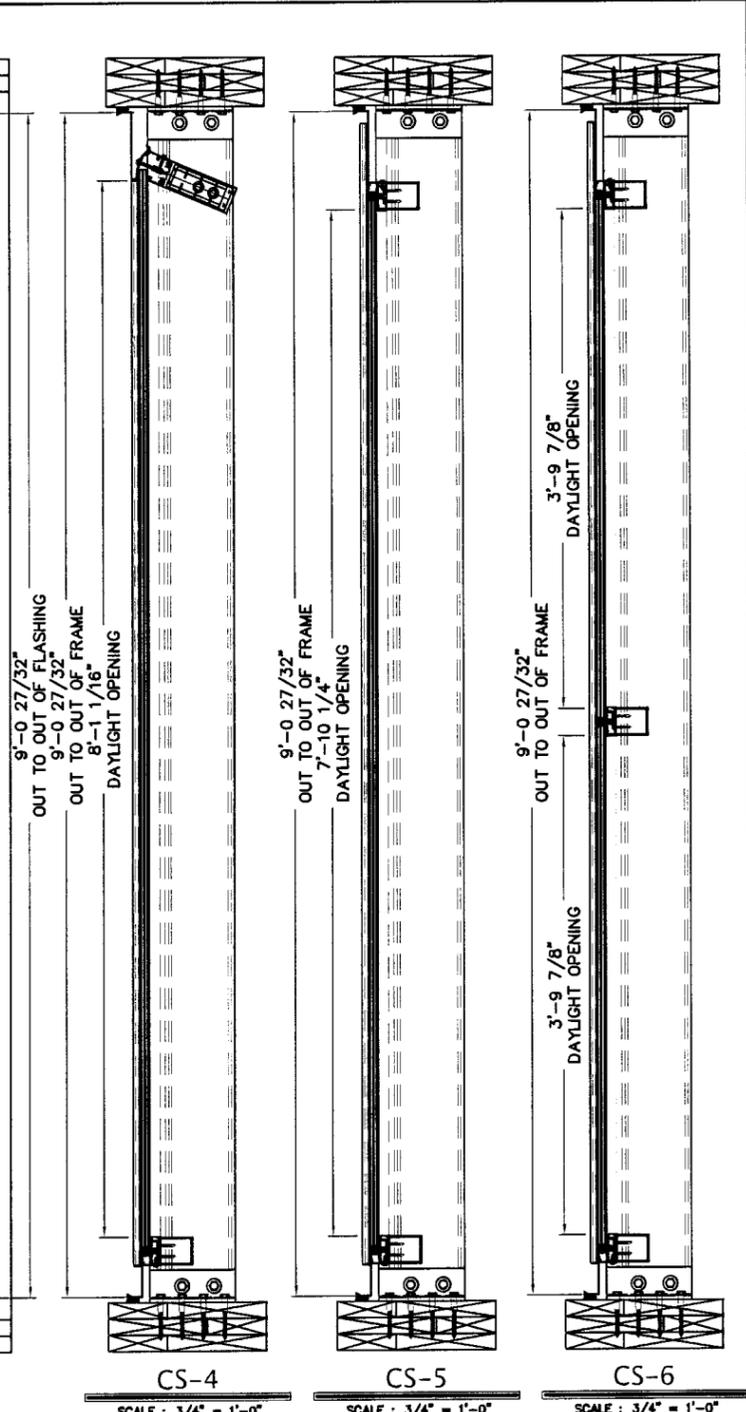
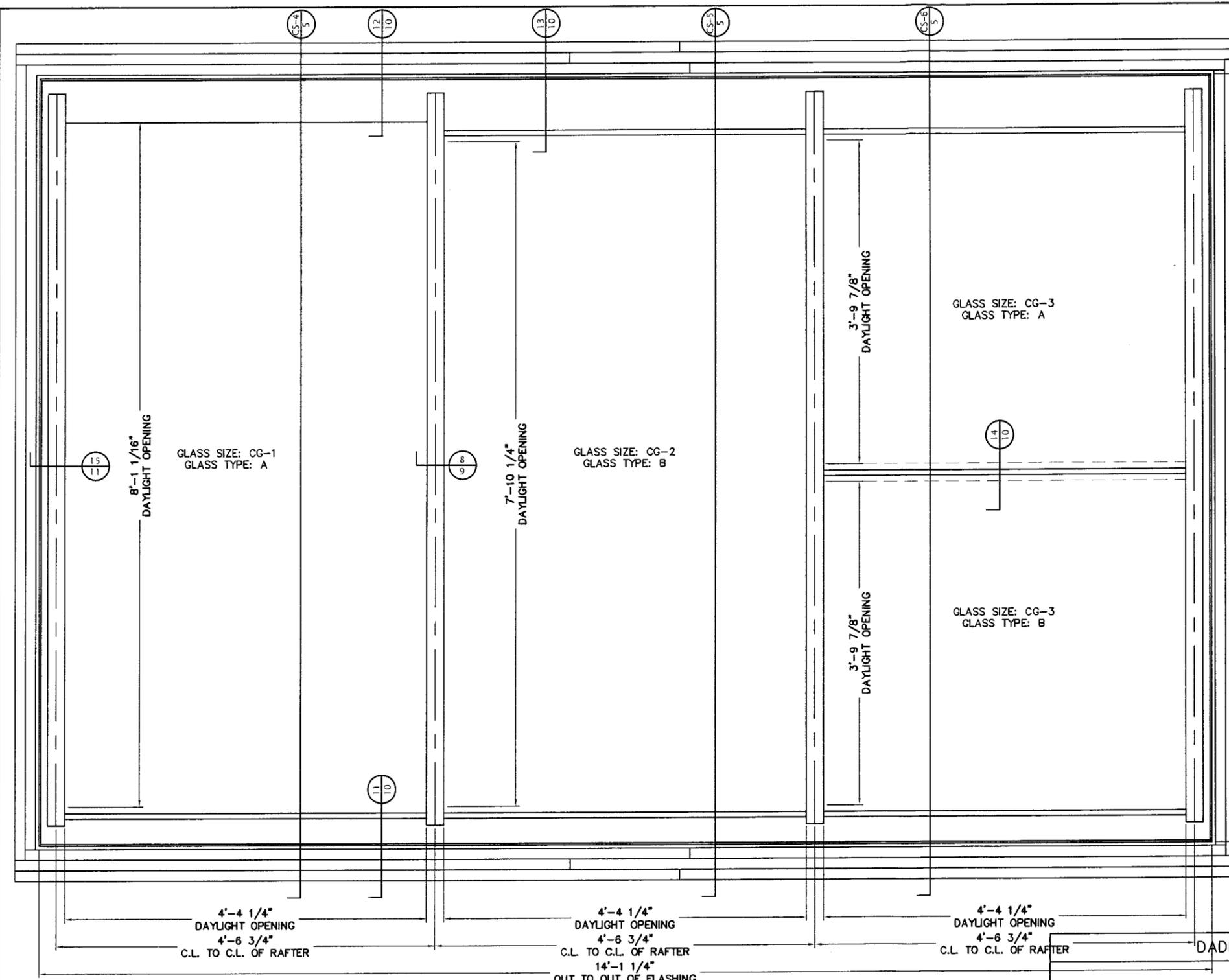
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 Florida Building Code
 Date 08/11/2010
 NOA# 10-0607.01
 Miami Dade Product Control
 Division
 By *Heather A. Martin*

Robert Meloy
 2/8/10

NOTES:
 1. SEE SHEET 6 OF 14 FOR GLASS SIZES AND TYPES.

 acurllite engineering light Acurllite Engineering Light Inc. 107 North West Avenue, PO Box 3 Barrick, PA 15003 © 570.795.4882 © 570.795.9532 sales@acurllite.com	
© 2/4/10	REV. DT. DATE
PRODUCT NAME: SECURE SERIES	PRODUCT TYPE: SMALL MISSILE
DRAWING TITLE: PLANS AND ELEVATIONS	DRAWING FILE: SMNOA-001
DRAWN BY: K. MAZIE	CHECKED BY:
DATE: 2/4/10	SCALE: AS NOTED
SHEET 3 of 14	DESCRIPTION



TEST SPECIMEN ELEVATION
SCALE: 3/4" = 1'-0"

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Date 08/11/2010
NOA# 10-0607.01
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Division
By *Helmut A. Weber*

Roby Meloy
2/8/10

NOTES:
1. SEE SHEET 6 OF 14 FOR GLASS SIZES AND TYPES.

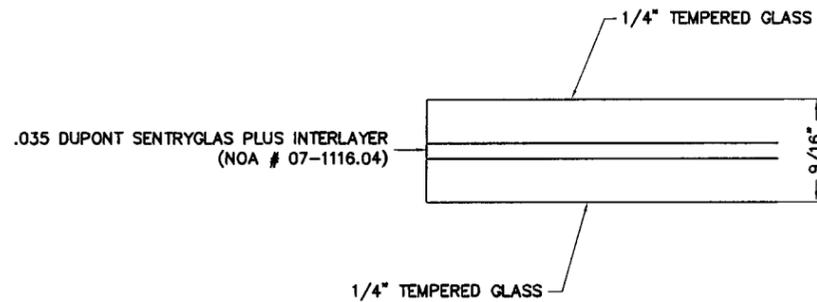
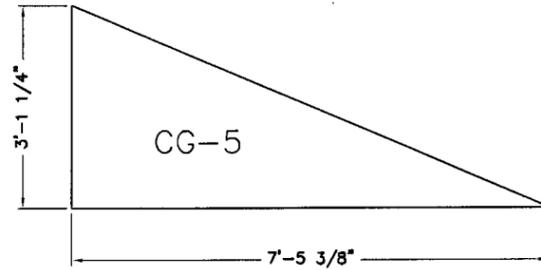
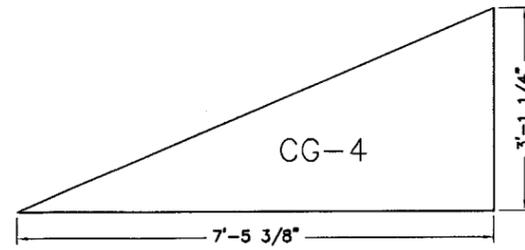
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Barrick, PA 16803
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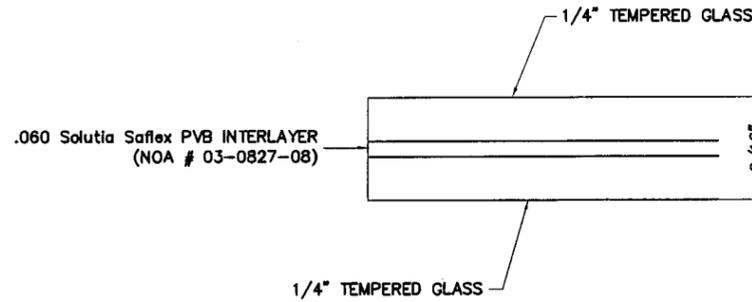
PRODUCT NAME: SECURE SERIES
PRODUCT TYPE: SMALL MISSILE
DRAWING TITLE: PLANS AND ELEVATIONS

DOCUMENT NO: SMNOA-001
DRAWN BY: K. MAZZIE
CHECKED BY:
DATE: 2/4/10
SCALE: AS NOTED
DRAWING FILE:

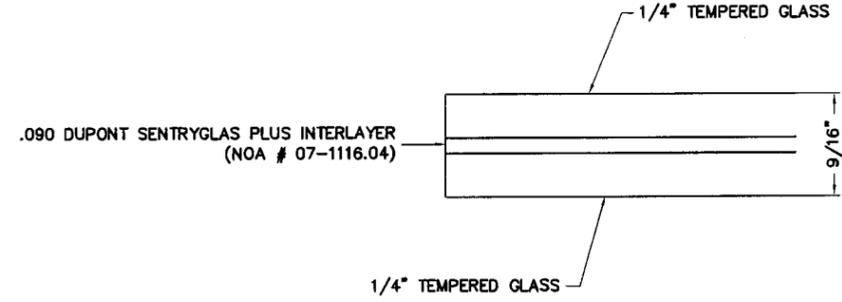
	SIZE
CG-1	54 x 99
CG-2	54 x 96
CG-3	54 x 49 5/8
CG-4	SEE PATTERN
CG-5	SEE PATTERN



GLASS TYPE A



GLASS TYPE B



GLASS TYPE C

NOTES:
1. SEE SHEET 2,3,4 AND 5 OF 12 FOR LOCATIONS OF GLASS SIZES AND TYPES.

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 Date 08/11/2010
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 Miami Dade Product Control
 Division
 By *[Signature]*

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[Signature]
 2/10/10

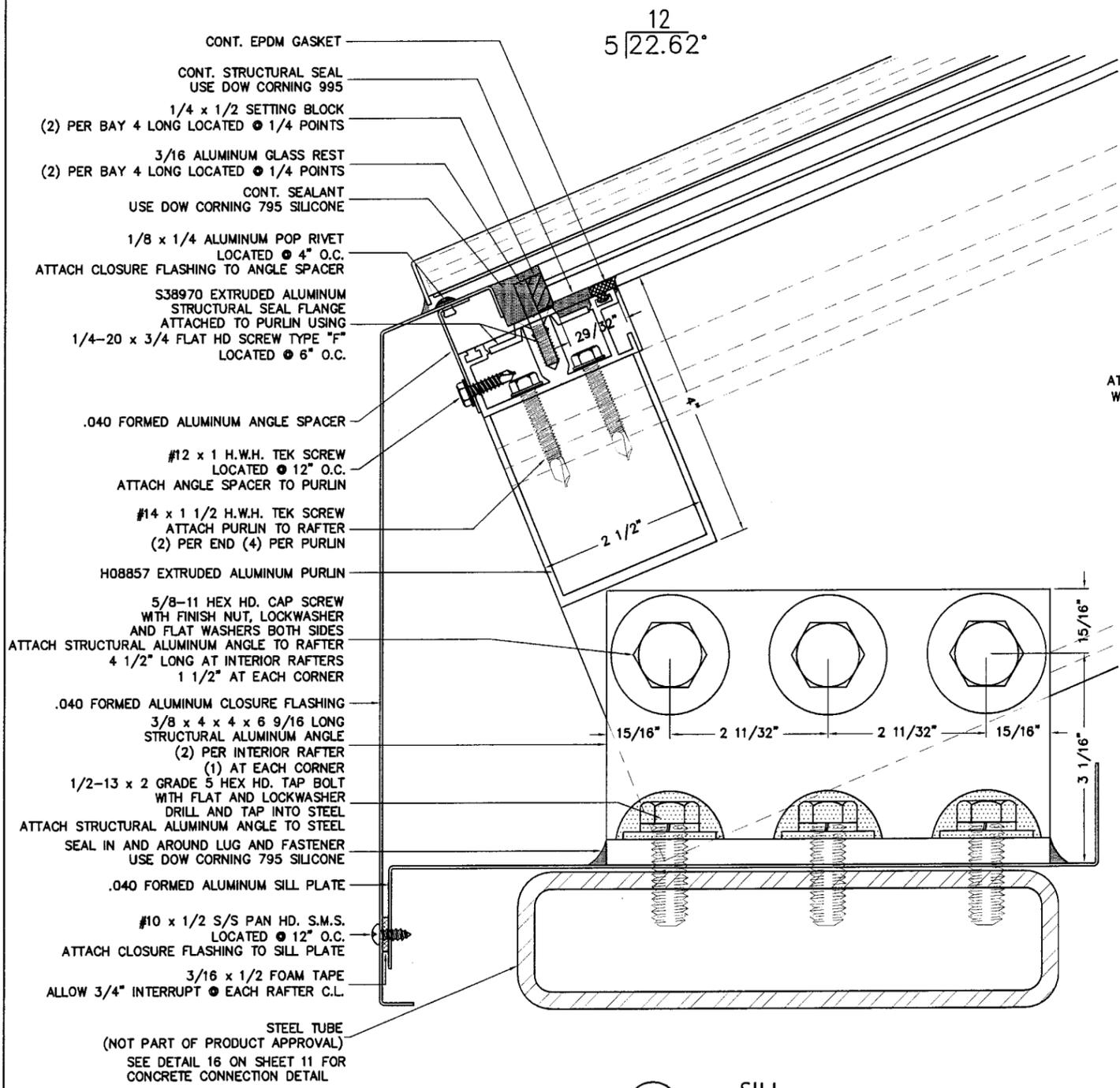
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 Acurlite Structural Skylights Inc.
 107 North Yule Street, PO Box 3
 Berwick, PA 18609
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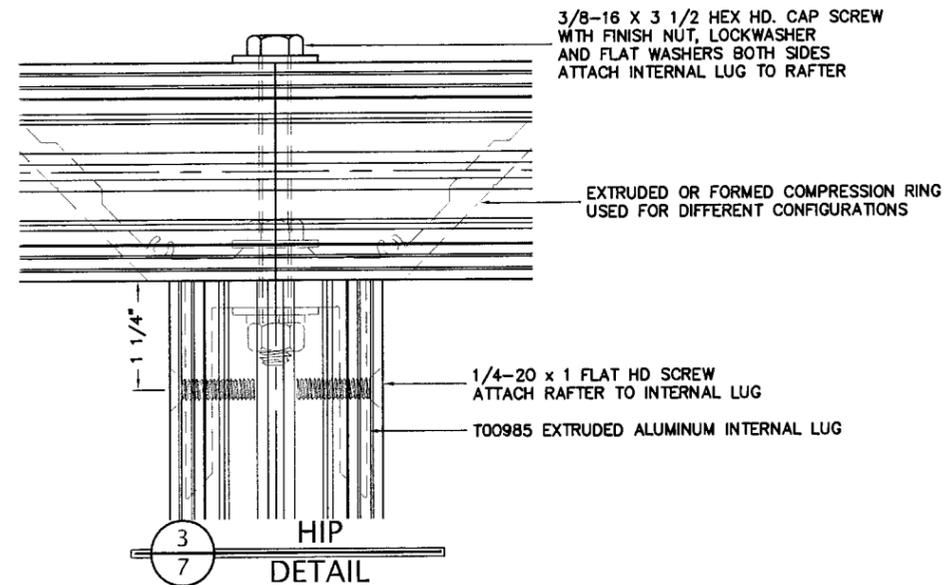
2/4/10

SECURE SERIES
 SMALL MISSILE
 GLAZING

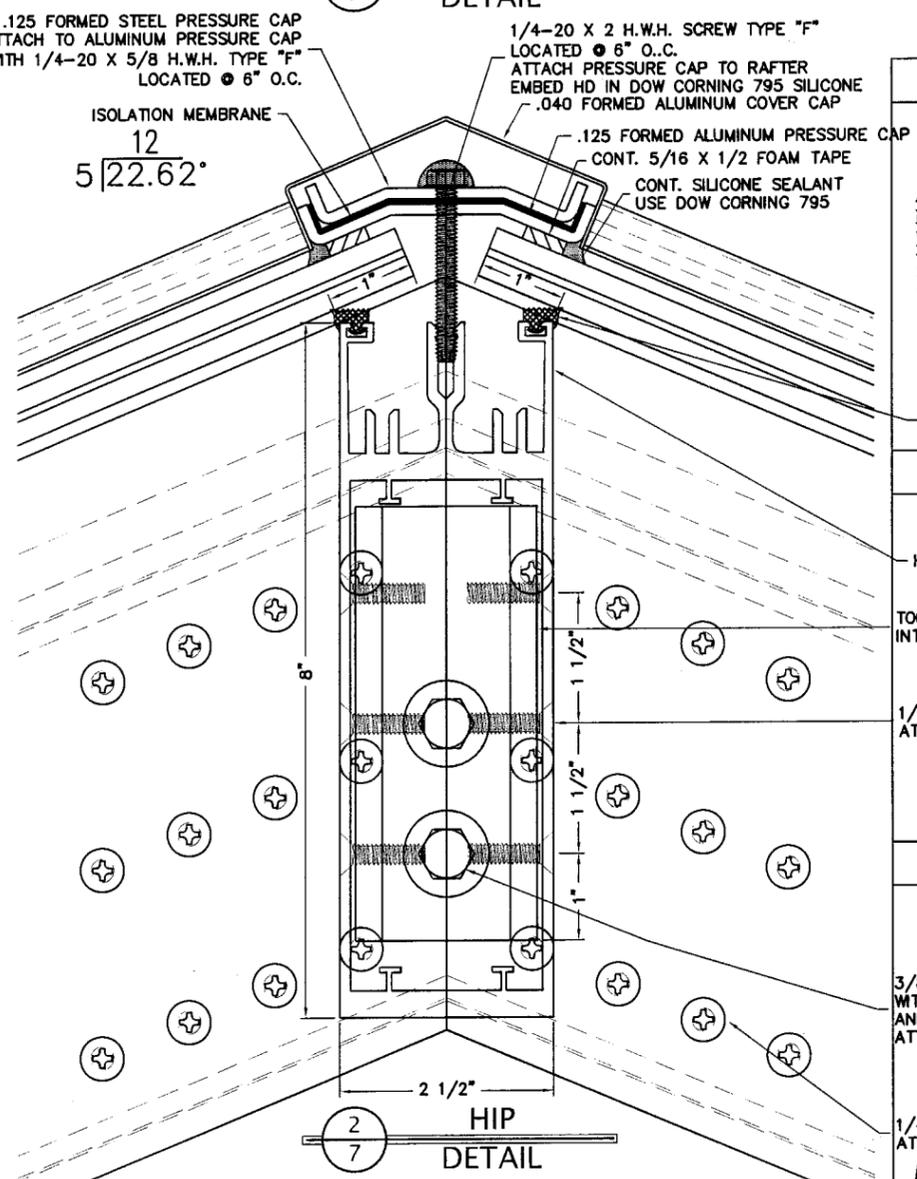
DOCUMENT NO: SMNOA-001
 DRAWN BY: K. MAZZIE
 CHECKED BY:
 DATE: 2/4/10
 SCALE: NONE
 DRAWING FILE:
 SHEET: 6 of 14



1
7 SILL
DETAIL



3
7 HIP
DETAIL



2
7 HIP
DETAIL

NOTES:
1. SEE SHEET 6 OF 14 FOR GLASS SIZES AND TYPES.

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Date 08/11/2010
NOA# 10-0607.01
Miami Dade Product Control Division
By *Helmut A. Mahr*

CONT. EPDM GASKET

DADE COUNTY USE

H08858 EXTRUDED ALUMINUM RAFTER

T00985 EXTRUDED ALUMINUM INTERNAL LUG

1/4-20 x 1 FLAT HD SCREW ATTACH RAFTER TO INTERNAL LUG

ENGINEER STAMP

3/8-16 x 3 1/2 HEX HD. CAP SCREW WITH FINISH NUT, LOCKWASHER AND FLAT WASHERS BOTH SIDES ATTACH INTERNAL LUG TO RAFTER

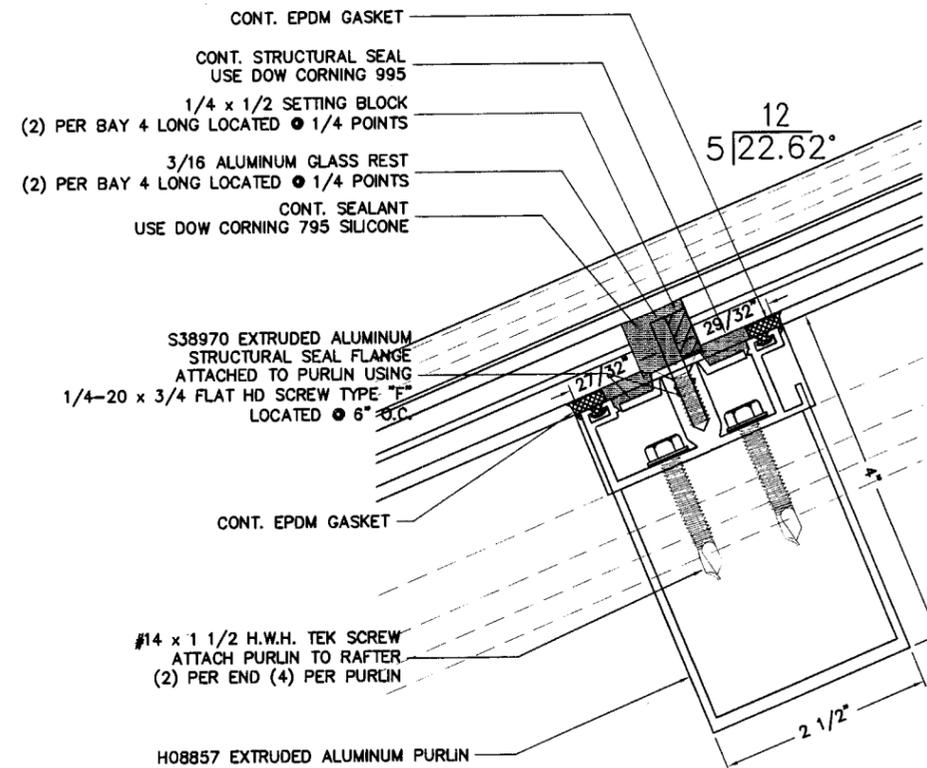
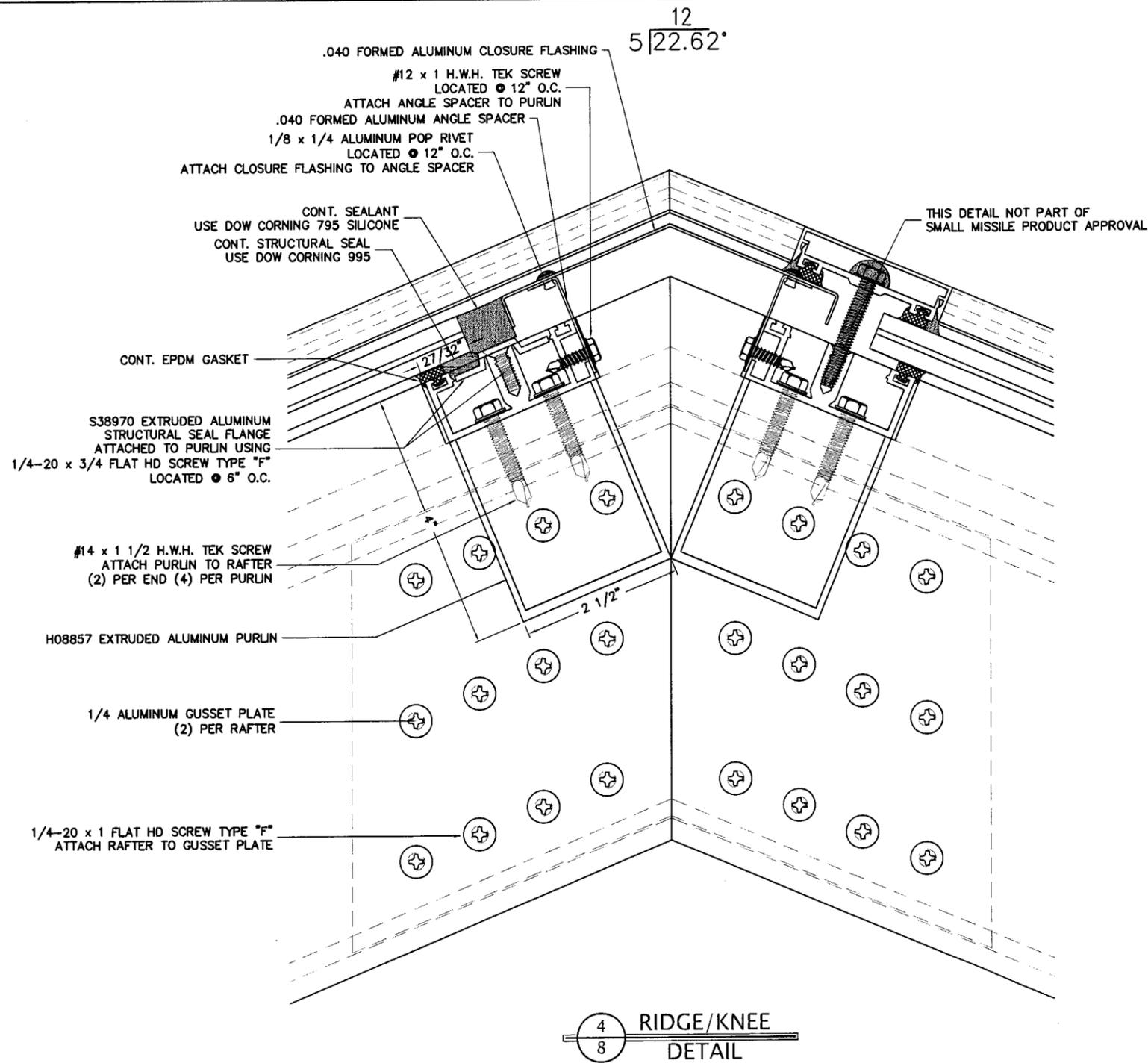
1/4-20 x 1 FLAT HD SCREW TYPE "F" ATTACH RAFTER TO BUSSET PLATE

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engineering light
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1077 North Vero Beach, PO Box 5
Barrick, FL 32903
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2/4/10

SECURE SERIES
SMALL MISSILE
DETAILS

DATE: 2/4/10
SCALE: HALF
DRAWING FILE:
SHEET: 7 of 14



NOTES:
1. SEE SHEET 6 OF 14 FOR GLASS SIZES AND TYPES.

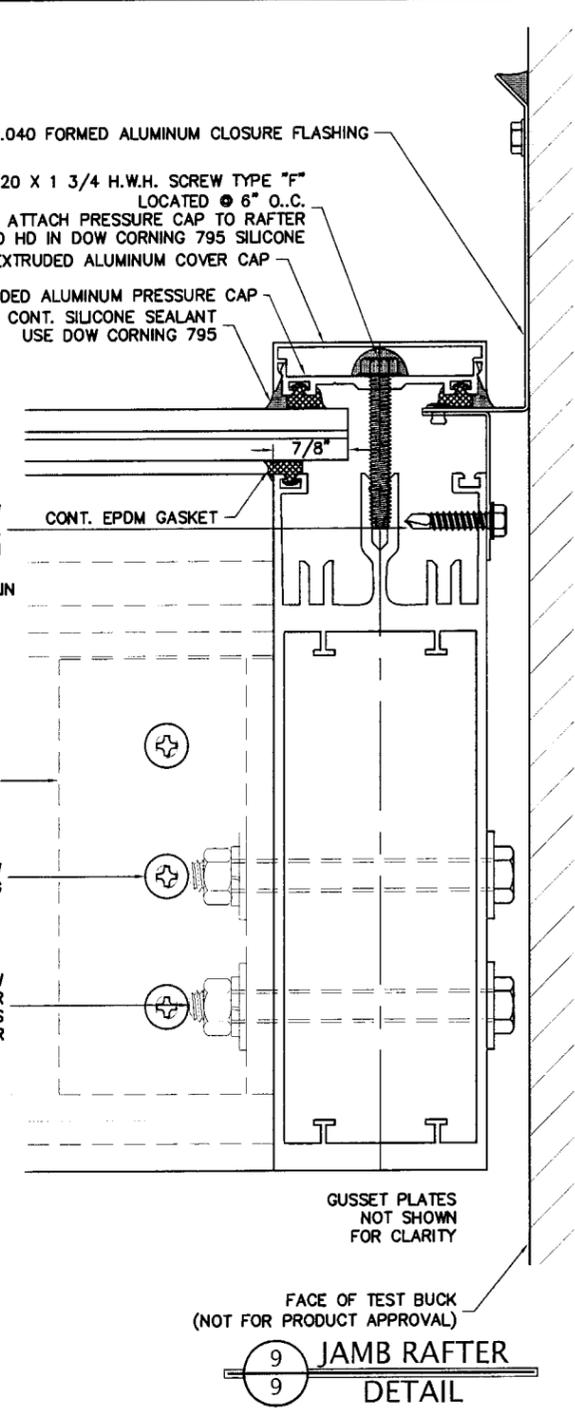
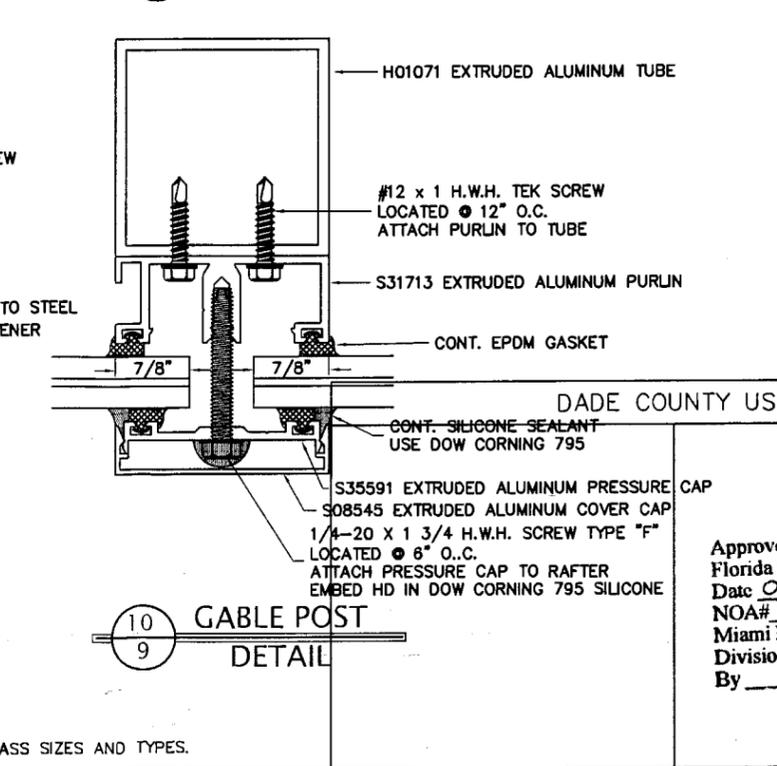
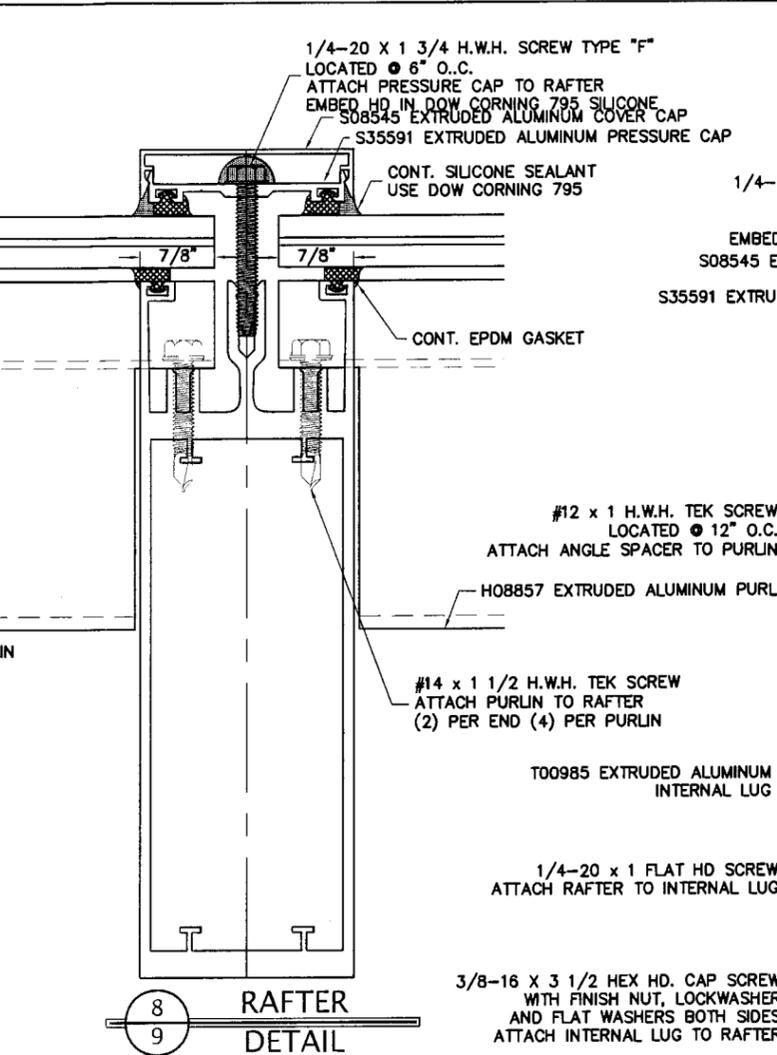
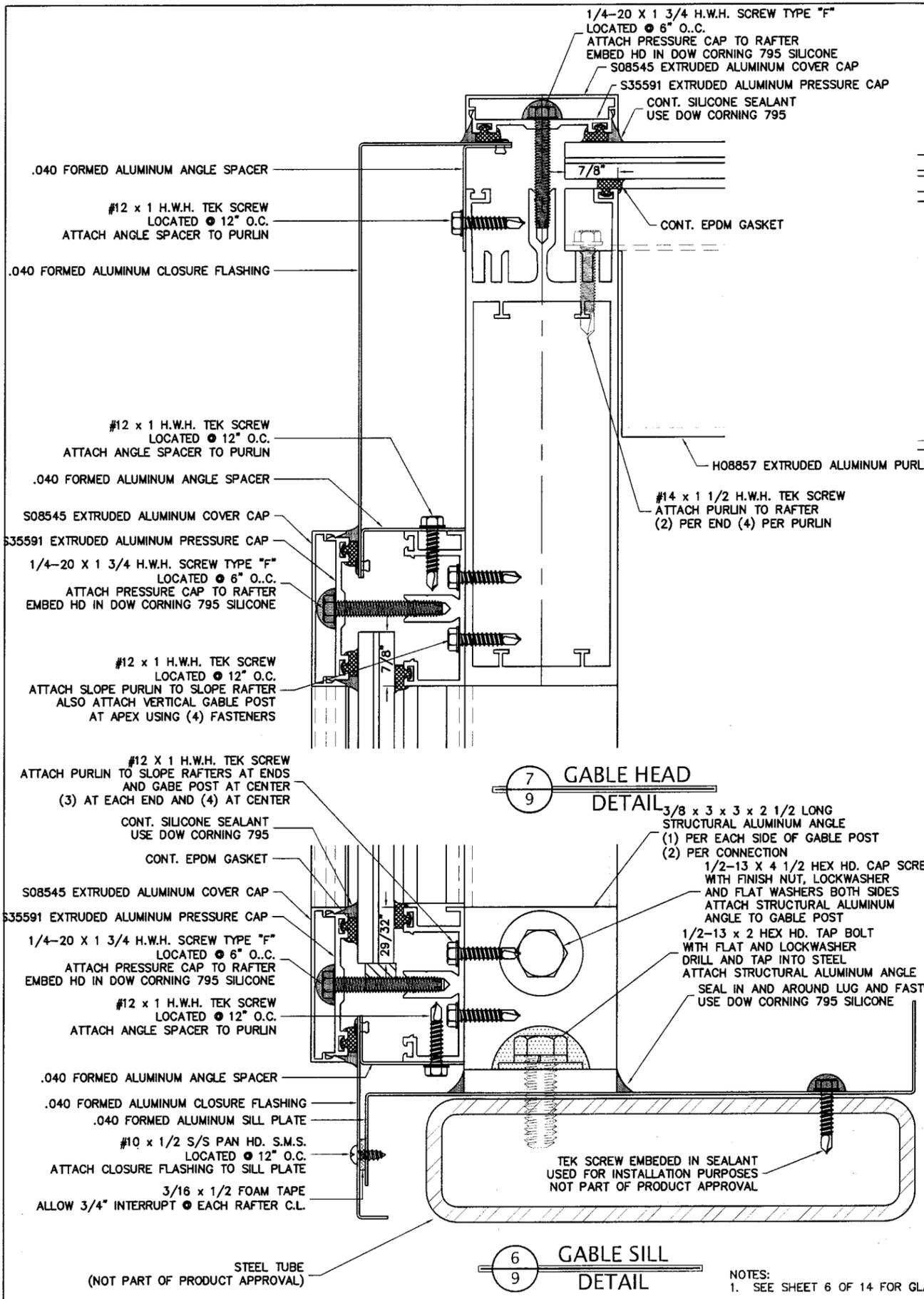
DADE COUNTY USE		ENGINEER STAMP
<p>Approved as complying with the Florida Building Code Date 08/11/2010 NOA# 10-0607.01 Miami Dade Product Control Division By <i>Helmy A. Helmy</i></p>		<p><i>Robert Meloy</i> 2/8/10</p>
<p>PRODUCT NAME: SECURE SERIES PRODUCT TYPE: SMALL MISSILE DRAWING TITLE: DETAILS</p> <p>DATE: 2-4-10 SCALE: HALF DRAWING FILE: SHEET 8 of 14</p>		

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DESCRIPTION
REV. BY
DATE



NOTES:
 1. SEE SHEET 6 OF 14 FOR GLASS SIZES AND TYPES.

DADE COUNTY USE

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 Date 08/11/2010
 NOA# 10-0607.01
 Miami Dade Product Control Division
 By *Heather A. Miller*

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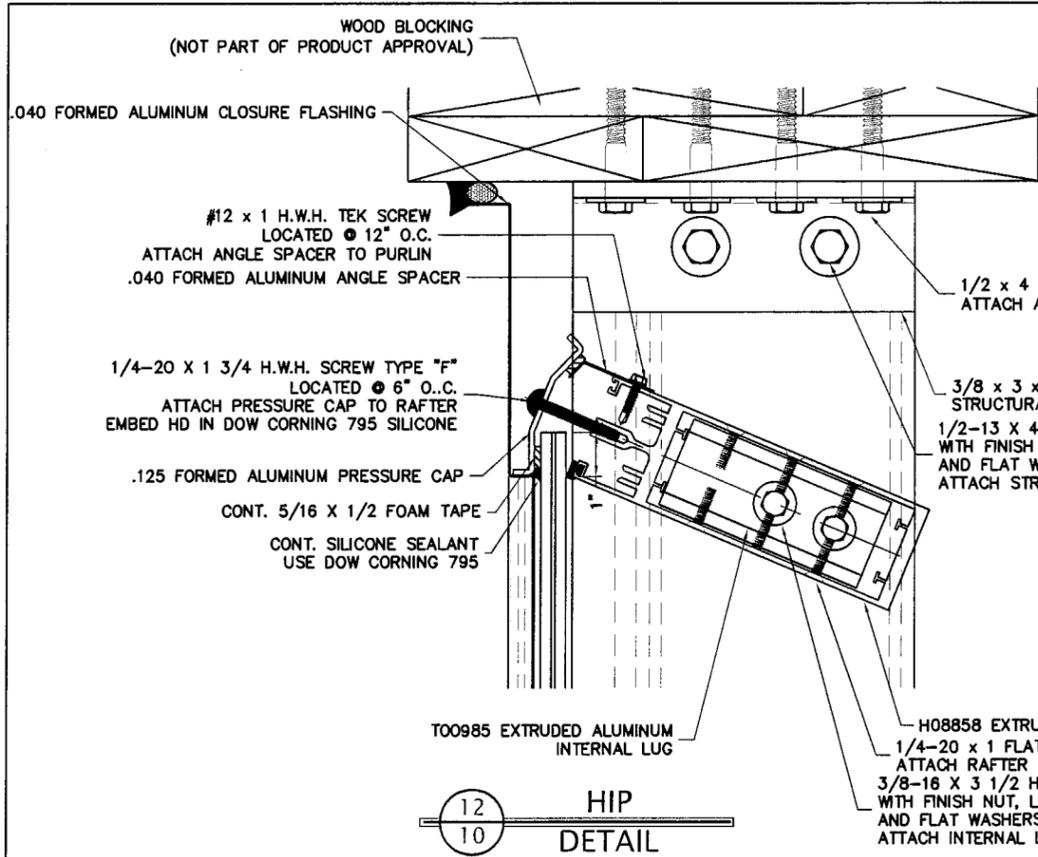
Robert M. Meleny
 2/4/10

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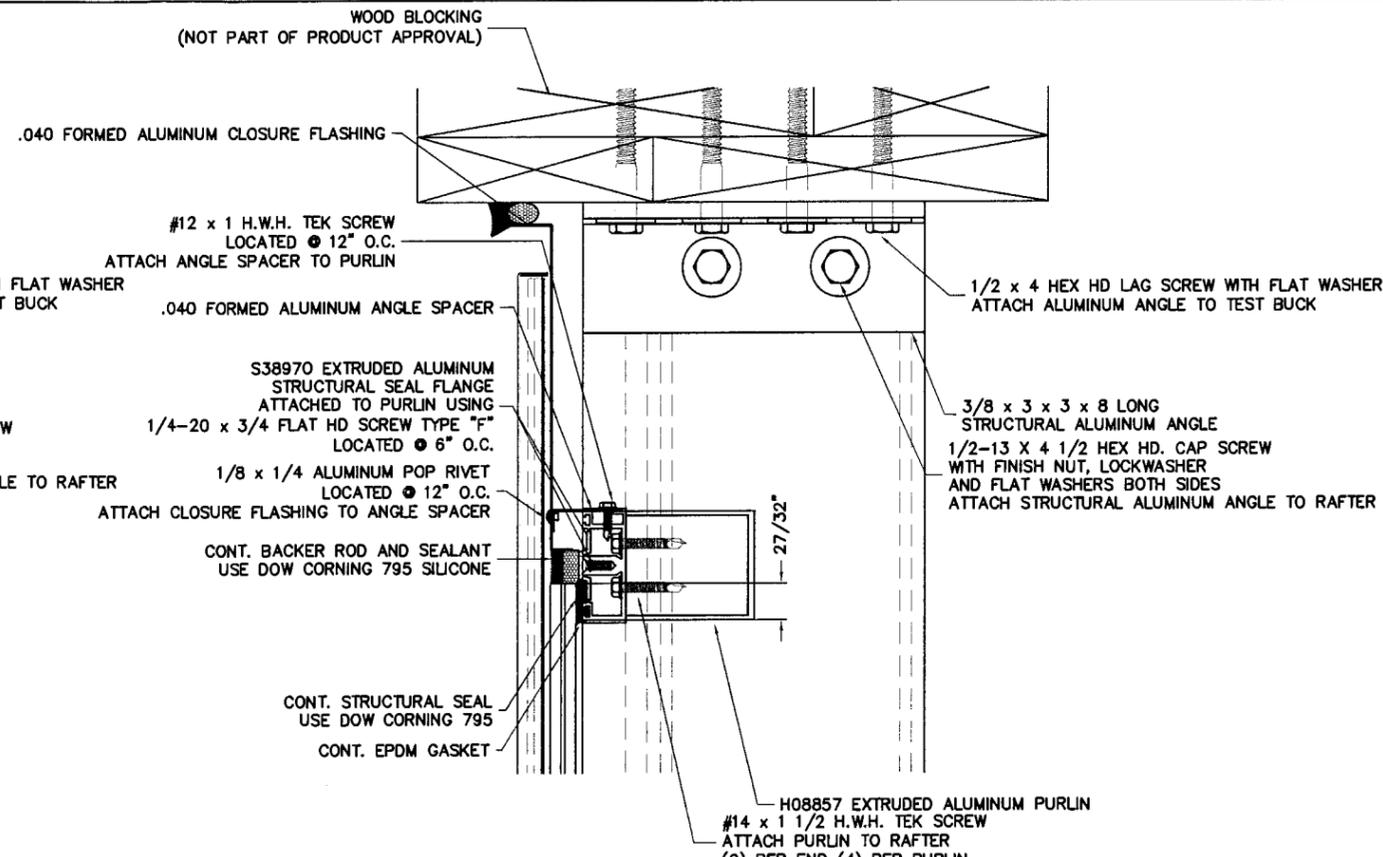
2/4/10

SECURE SERIES
 SMALL MISSILE
 DETAILS

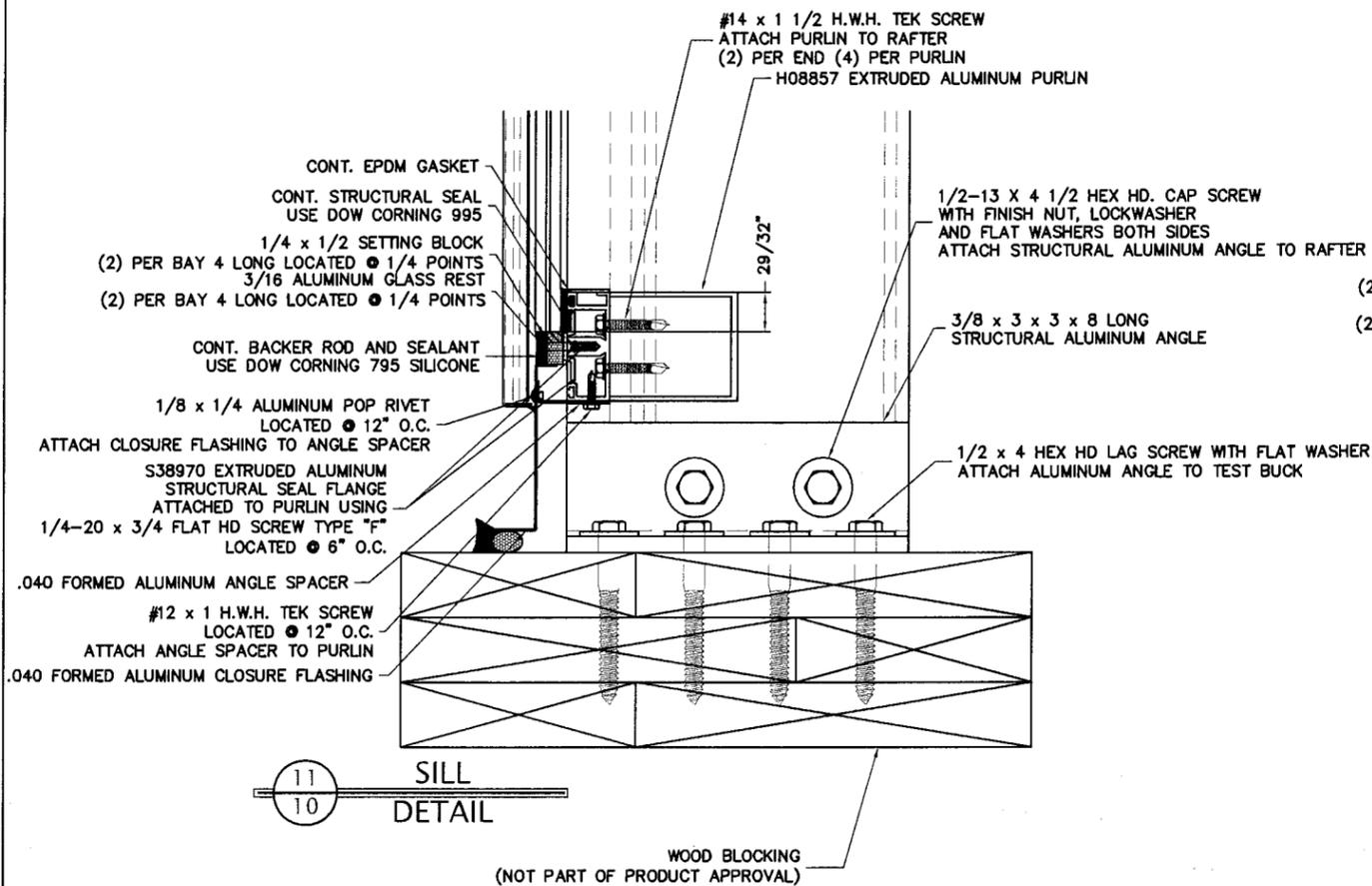
9 of 14



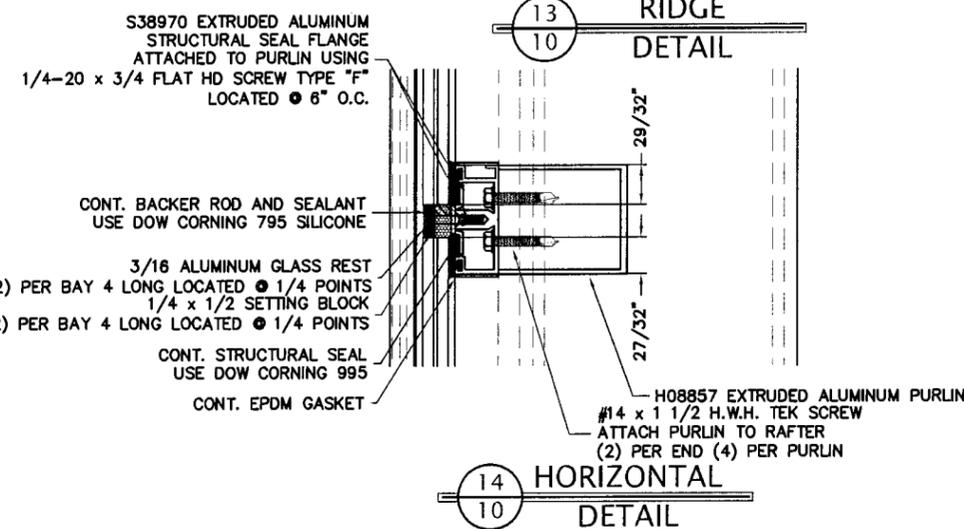
12
10
**HIP
DETAIL**



13
10
**RIDGE
DETAIL**



11
10
**SILL
DETAIL**



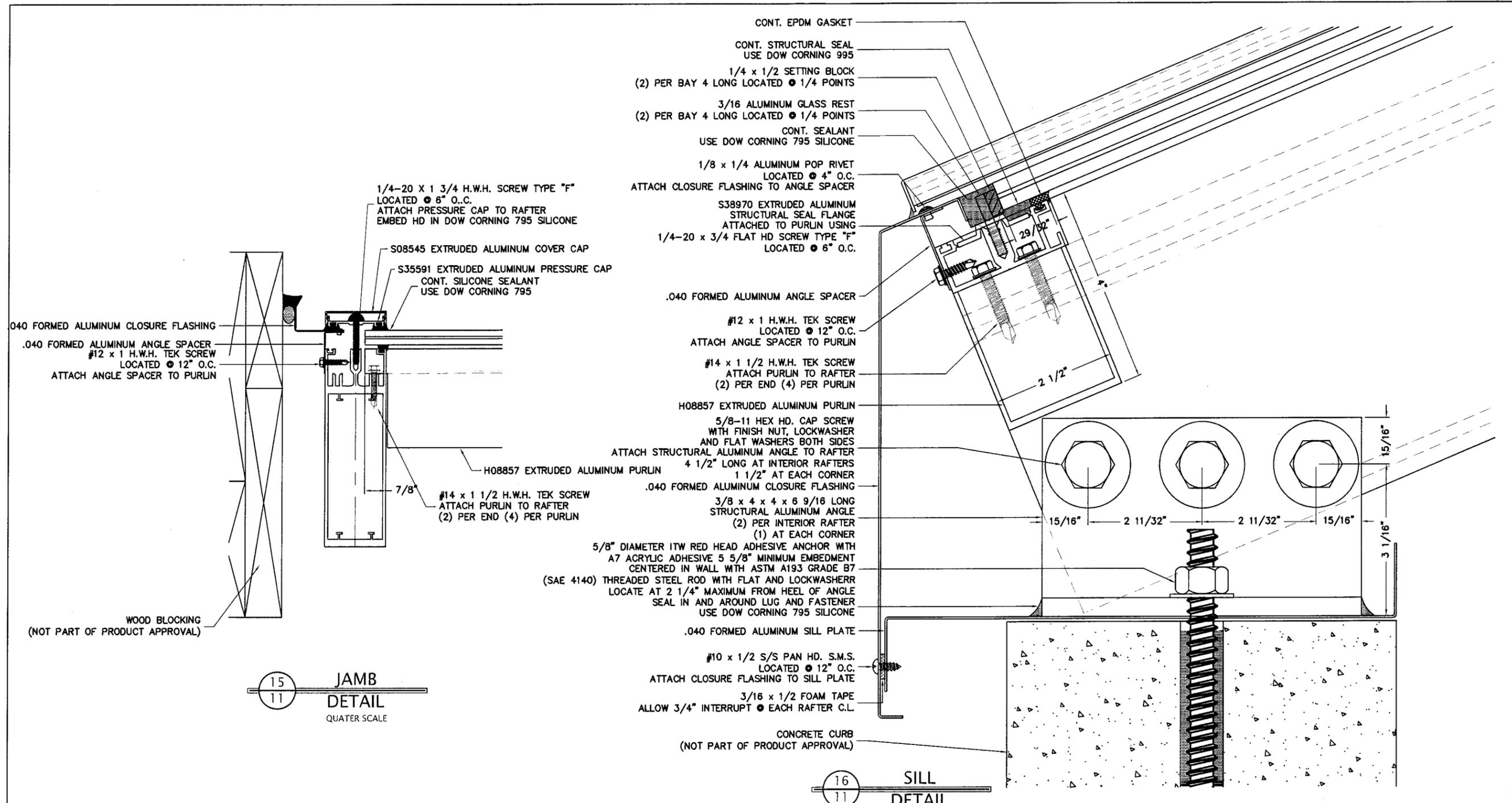
14
10
**HORIZONTAL
DETAIL**

WOOD BLOCKING
(NOT PART OF PRODUCT APPROVAL)

NOTES:
1. SEE SHEET 6 OF 14 FOR GLASS SIZES AND TYPES.

DADE COUNTY USE		ENGINEER STAMP	
Approved as complying with the Florida Building Code Date 08/11/2010 NOA# 10-0607-01 Miami Dade Product Control Division By <i>Heather A. [Signature]</i>		<i>Robert [Signature]</i> 2/18/10	
DOCUMENT NO. SMNOA-001 DRAWN BY: K. MAZZIE CHECKED BY: DATE: 2-4-10 SCALE: QUATER DRAWING FILE: SHEET 10 of 14			

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 engineering light
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1/4-20 x 1 3/4 H.W.H. SCREW TYPE "F"
LOCATED @ 6" O.C.
ATTACH PRESSURE CAP TO RAFTER
EMBED HD IN DOW CORNING 795 SILICONE

S08545 EXTRUDED ALUMINUM COVER CAP

S35591 EXTRUDED ALUMINUM PRESSURE CAP
CONT. SILICONE SEALANT
USE DOW CORNING 795

.040 FORMED ALUMINUM CLOSURE FLASHING

.040 FORMED ALUMINUM ANGLE SPACER
#12 x 1 H.W.H. TEK SCREW
LOCATED @ 12" O.C.
ATTACH ANGLE SPACER TO PURLIN

H08857 EXTRUDED ALUMINUM PURLIN

#14 x 1 1/2 H.W.H. TEK SCREW
ATTACH PURLIN TO RAFTER
(2) PER END (4) PER PURLIN

WOOD BLOCKING
(NOT PART OF PRODUCT APPROVAL)

15
11
**JAMB
DETAIL**
QUATER SCALE

CONT. EPDM GASKET

CONT. STRUCTURAL SEAL
USE DOW CORNING 995

1/4 x 1/2 SETTING BLOCK
(2) PER BAY 4 LONG LOCATED @ 1/4 POINTS

3/16 ALUMINUM GLASS REST
(2) PER BAY 4 LONG LOCATED @ 1/4 POINTS

CONT. SEALANT
USE DOW CORNING 795 SILICONE

1/8 x 1/4 ALUMINUM POP RIVET
LOCATED @ 4" O.C.
ATTACH CLOSURE FLASHING TO ANGLE SPACER

S38970 EXTRUDED ALUMINUM
STRUCTURAL SEAL FLANGE
ATTACHED TO PURLIN USING
1/4-20 x 3/4 FLAT HD SCREW TYPE "F"
LOCATED @ 6" O.C.

.040 FORMED ALUMINUM ANGLE SPACER

#12 x 1 H.W.H. TEK SCREW
LOCATED @ 12" O.C.
ATTACH ANGLE SPACER TO PURLIN

#14 x 1 1/2 H.W.H. TEK SCREW
ATTACH PURLIN TO RAFTER
(2) PER END (4) PER PURLIN

H08857 EXTRUDED ALUMINUM PURLIN

5/8-11 HEX HD. CAP SCREW
WITH FINISH NUT, LOCKWASHER
AND FLAT WASHERS BOTH SIDES
ATTACH STRUCTURAL ALUMINUM ANGLE TO RAFTER

4 1/2" LONG AT INTERIOR RAFTERS
1 1/2" AT EACH CORNER

.040 FORMED ALUMINUM CLOSURE FLASHING

3/8 x 4 x 4 x 6 9/16 LONG
STRUCTURAL ALUMINUM ANGLE
(2) PER INTERIOR RAFTER
(1) AT EACH CORNER

5/8" DIAMETER ITW RED HEAD ADHESIVE ANCHOR WITH
A7 ACRYLIC ADHESIVE 5 5/8" MINIMUM EMBEDMENT
CENTERED IN WALL WITH ASTM A193 GRADE B7
(SAE 4140) THREADED STEEL ROD WITH FLAT AND LOCKWASHER
LOCATE AT 2 1/4" MAXIMUM FROM HEEL OF ANGLE
SEAL IN AND AROUND LUG AND FASTENER
USE DOW CORNING 795 SILICONE

.040 FORMED ALUMINUM SILL PLATE

#10 x 1/2 S/S PAN HD. S.M.S.
LOCATED @ 12" O.C.
ATTACH CLOSURE FLASHING TO SILL PLATE

3/16 x 1/2 FOAM TAPE
ALLOW 3/4" INTERRUPT @ EACH RAFTER C.L.

CONCRETE CURB
(NOT PART OF PRODUCT APPROVAL)

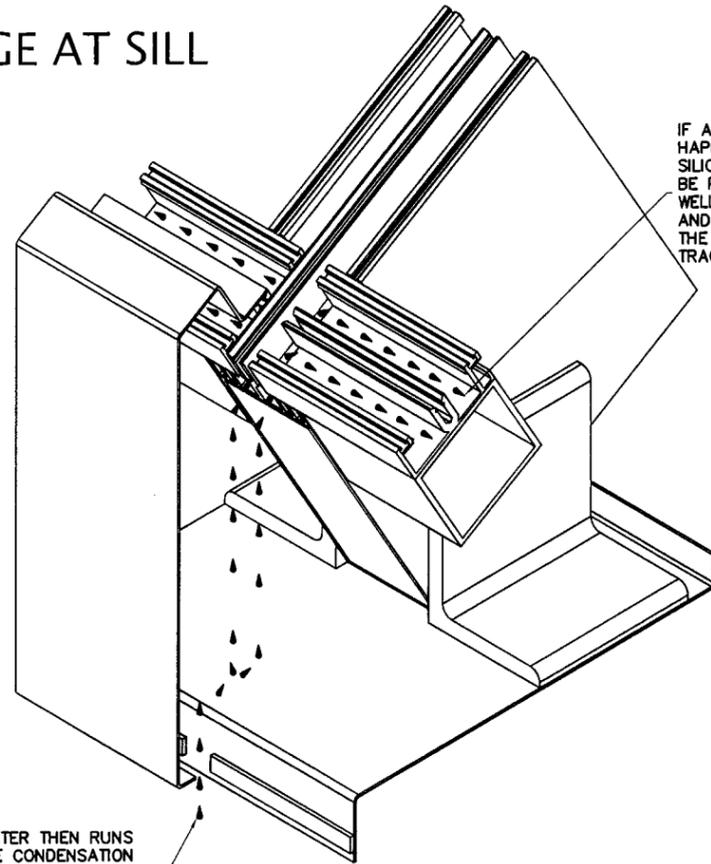
16
11
**SILL
DETAIL**
HALF SCALE

NOTES:
1. SEE SHEET 6 OF 14 FOR GLASS SIZES AND TYPES.

DADE COUNTY USE		ENGINEER STAMP
Approved as complying with the Florida Building Code Date 08/11/2010 NOA# 10-0607.01 Miami Dade Product Control Division/ By <i>Heather A. Heber</i>		<i>Roger McElroy</i> 2/8/10

American Structural Skylights Inc. 107 North Vero Street, PO Box 5 Barrick, PA 18609 © 570.795.6882 © 570.795.9553 sales@acurllite.com	
PRODUCT NAME SECURE SERIES	DRAWING TITLE SMALL MISSILE DETAILS
DOCUMENT NO. SMNOA-001	SHEET 11 of 14
DRAWN BY: K. MAZZIE	DATE: 2-4-10
CHECKED BY:	SCALE: AS NOTED
DRAWING FILE:	DESCRIPTION:

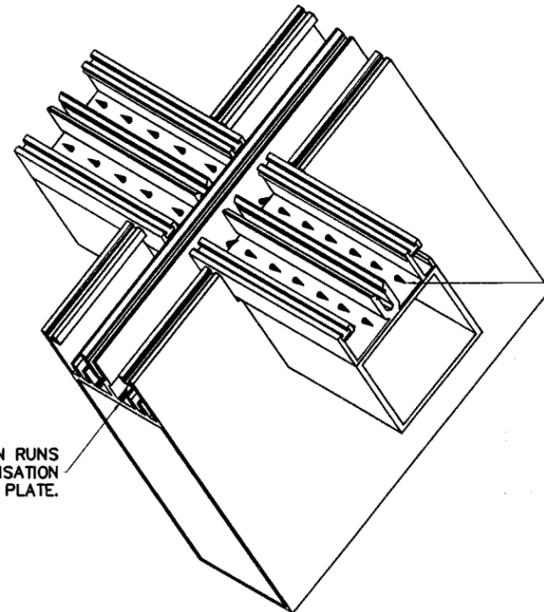
WEEPAGE AT SILL



IF ANY WATER WOULD HAPPEN TO PENETRATE THE SILICONE JOINT IT WOULD BE PICKED UP IN THE WELL OF THE PURLIN AND TRANSFERRED TO THE CONDENSATION TRACK OF THE RAFTER.

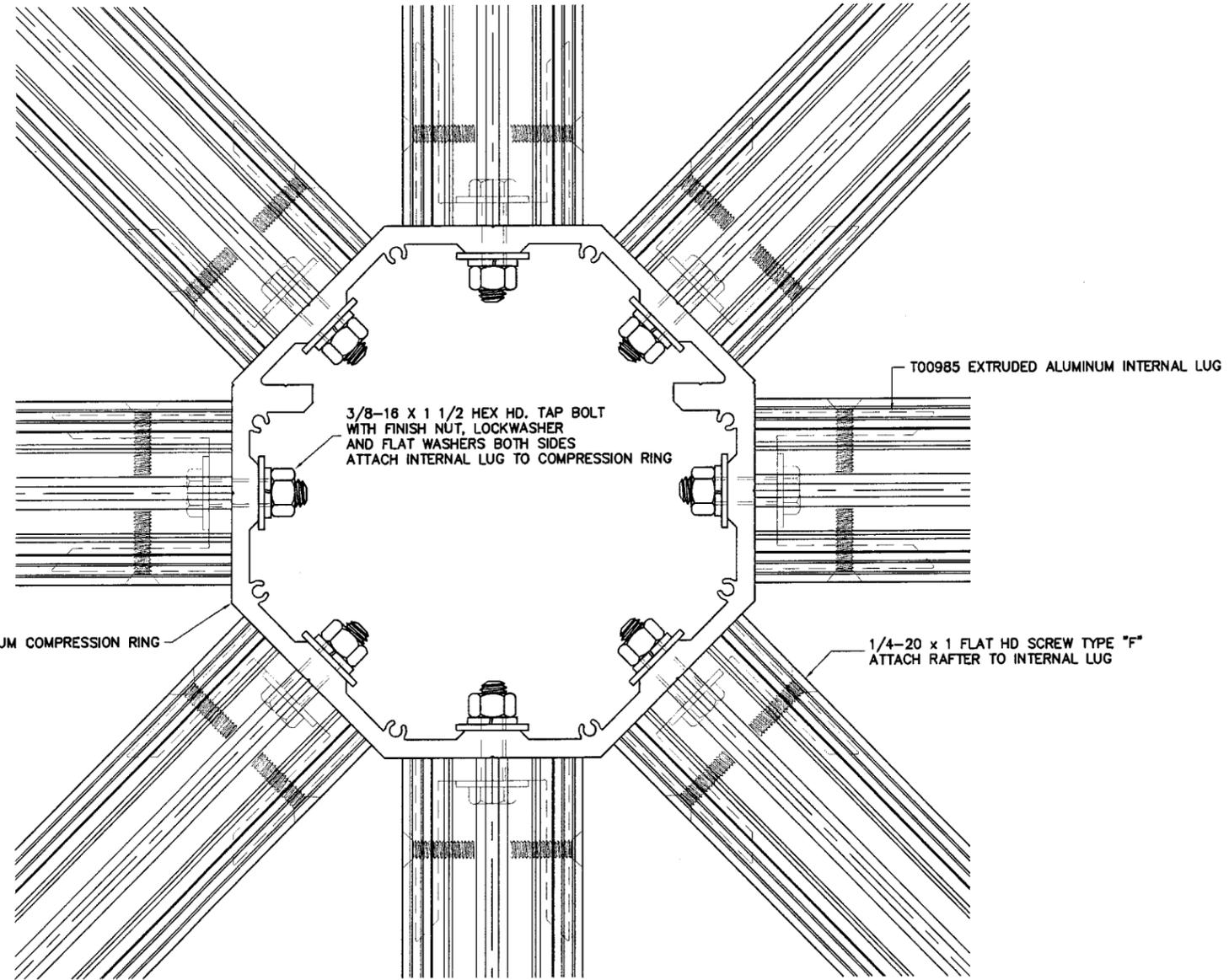
THE WATER THEN RUNS DOWN THE CONDENSATION TRACK ONTO THE SILL PLATE. FROM HERE IT WILL WORK ITS WAY FORWARD TO THE EDGE OF THE SILL PLATE AND DRAIN AT THE 3/4" VOID IN THE SPONGE GASKET. VOID FILLED WITH 30 PPI WEEP BAFFLE.

WEEPAGE AT INTERMEDIATE



IF ANY WATER WOULD HAPPEN TO PENETRATE THE SILICONE JOINT IT WOULD BE PICKED UP IN THE WELL OF THE PURLIN AND TRANSFERRED TO THE CONDENSATION TRACK OF THE RAFTER.

THE WATER THEN RUNS DOWN THE CONDENSATION TRACK TO THE SILL PLATE.



EXTRUDED ALUMINUM COMPRESSION RING

16
12 COMP. RING
DETAIL

T00985 EXTRUDED ALUMINUM INTERNAL LUG

3/8-16 X 1 1/2 HEX HD. TAP BOLT WITH FINISH NUT, LOCKWASHER AND FLAT WASHERS BOTH SIDES ATTACH INTERNAL LUG TO COMPRESSION RING

1/4-20 x 1 FLAT HD SCREW TYPE "F" ATTACH RAFTER TO INTERNAL LUG

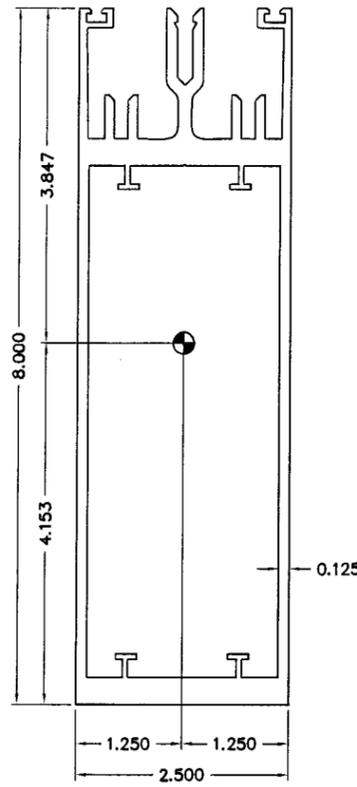
NOTES:
1. SEE SHEET 6 OF 14 FOR GLASS SIZES AND TYPES.

DADE COUNTY USE		ENGINEER STAMP
<p>Approved as complying with the Florida Building Code Date <i>08/11/2010</i> NOA# <i>10-0607.01</i> Miami Dade Product Control Division By <i>[Signature]</i></p>		<p><i>[Signature]</i> 2/10/10</p>
<p>PRODUCT NAME: SECURE SERIES PRODUCT TYPE: SMALL MISSILE DRAWING TITLE: DETAILS</p>		<p>DATE: 2-4-10 SCALE: HALF DRAWING FILE: SHEET: 12 of 14</p>

© 2/4/10

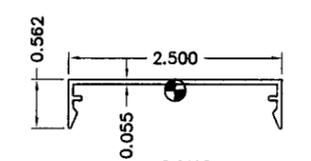
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REV.	BY	DATE	DESCRIPTION



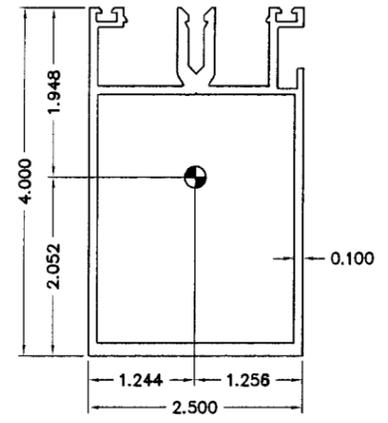
Area: 4.0777
 Perimeter: 54.9115
 Bounding box: X: -1.2500 --- 1.2500
 Y: -4.1528 --- 3.8472
 Moments of inertia: X: 31.3863
 Y: 3.5664
 Product of inertia: XY: 0.0000
 Radii of gyration: X: 2.7743
 Y: 0.9352
 Principal moments and X-Y directions about centroid:
 I: 3.5664 along [0.0000 1.0000]
 J: 31.3863 along [-1.0000 0.0000]
 Weight per lineal foot: 4.77 lbs.
 Aluminum Alloy: 6063-T6

H08858 RAFTER
 FULL SCALE



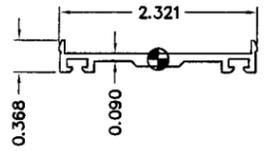
Area: 0.2110
 Perimeter: 7.5289
 Bounding box: X: -1.2500 --- 1.2500
 Y: -0.4392 --- 0.1228
 Moments of inertia: X: 0.0049
 Y: 0.1783
 Product of inertia: XY: 0.0000
 Radii of gyration: X: 0.1527
 Y: 0.9191
 Principal moments and X-Y directions about centroid:
 I: 0.0049 along [1.0000 0.0000]
 J: 0.1783 along [0.0000 1.0000]
 Weight per lineal foot: 0.25 lbs.
 Aluminum Alloy: 6063-T6

S08545 COVER GAP
 FULL SCALE



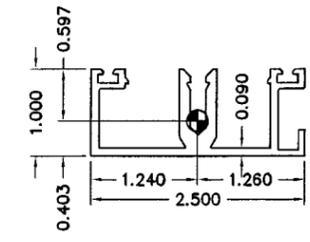
Area: 1.6983
 Perimeter: 31.2602
 Bounding box: X: -1.2438 --- 1.2562
 Y: -2.0520 --- 1.9480
 Moments of inertia: X: 3.4266
 Y: 1.4491
 Product of inertia: XY: -0.0162
 Radii of gyration: X: 1.4204
 Y: 0.9237
 Principal moments and X-Y directions about centroid:
 I: 1.4489 along [0.0082 -1.0000]
 J: 3.4267 along [1.0000 0.0082]
 Weight per lineal foot: 1.99 lbs.
 Aluminum Alloy: 6063-T6

H08857 PURLIN
 FULL SCALE



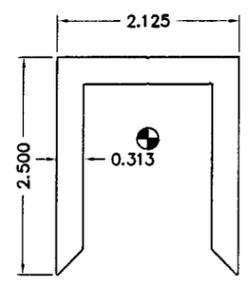
Area: 0.2955
 Perimeter: 6.9688
 Bounding box: X: -1.1634 --- 1.1626
 Y: -0.1489 --- 0.2190
 Moments of inertia: X: 0.0012
 Y: 0.1486
 Product of inertia: XY: 0.0000
 Radii of gyration: X: 0.0634
 Y: 0.7092
 Principal moments and X-Y directions about centroid:
 I: 0.0012 along [1.0000 0.0000]
 J: 0.1486 along [0.0000 1.0000]
 Weight per lineal foot: 0.354 lbs.
 Aluminum Alloy: 6063-T6

S35591 PRESSURE CAP
 FULL SCALE



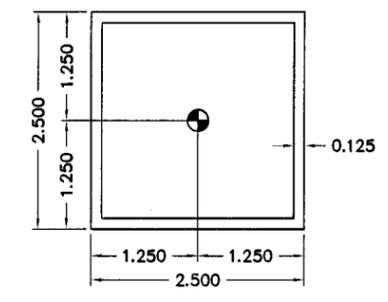
Area: 0.7307
 Perimeter: 15.0209
 Bounding box: X: -1.2403 --- 1.2597
 Y: -0.4032 --- 0.5968
 Moments of inertia: X: 0.0800
 Y: 0.4177
 Product of inertia: XY: -0.0027
 Radii of gyration: X: 0.3309
 Y: 0.7561
 Principal moments and X-Y directions about centroid:
 I: 0.0800 along [1.0000 -0.0080]
 J: 0.4178 along [0.0080 1.0000]
 Weight per lineal foot: 0.86 lbs.
 Aluminum Alloy: 6063-T6

S31713 PURLIN
 FULL SCALE



Area: 1.9456
 Perimeter: 13.3068
 Bounding box: X: -1.0624 --- 1.0626
 Y: -1.5635 --- 0.9365
 Moments of inertia: X: 1.0731
 Y: 1.3224
 Product of inertia: XY: -0.0001
 Radii of gyration: X: 0.7427
 Y: 0.8244
 Principal moments and X-Y directions about centroid:
 I: 1.0731 along [1.0000 -0.0004]
 J: 1.3224 along [0.0004 1.0000]
 Weight per lineal foot: 2.335 lbs.
 Aluminum Alloy: 6063-T6

T00985 INTERNAL LUG
 FULL SCALE



Area: 1.1875
 Perimeter: 19.0000
 Bounding box: X: -1.2500 --- 1.2500
 Y: -1.2500 --- 1.2500
 Moments of inertia: X: 1.1195
 Y: 1.1195
 Product of inertia: XY: 0.0000
 Radii of gyration: X: 0.9709
 Y: 0.9709
 Principal moments and X-Y directions about centroid:
 I: 1.1195 along [0.7071 -0.7071]
 J: 1.1195 along [0.7071 0.7071]
 Weight per lineal foot: 1.39 lbs.
 Aluminum Alloy: 6063-T6

H01071 TUBE
 FULL SCALE

NOTES:
 1. SEE SHEET 6 OF 14 FOR GLASS SIZES AND TYPES.

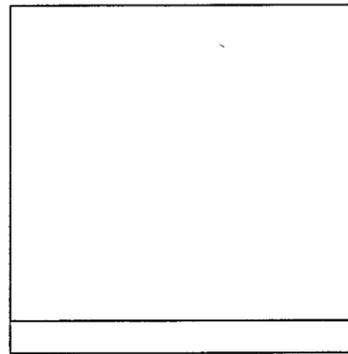
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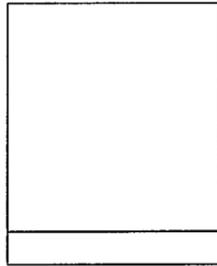
2/14/10

SECURE SERIES
 SMALL MISSILE
 BILL OF MATERIALS

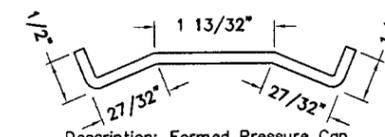
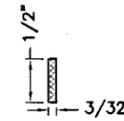
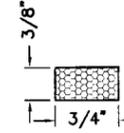
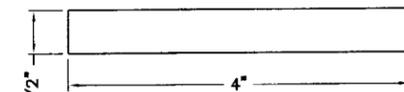
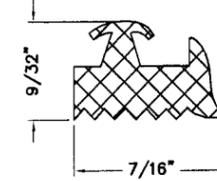
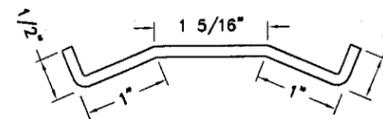
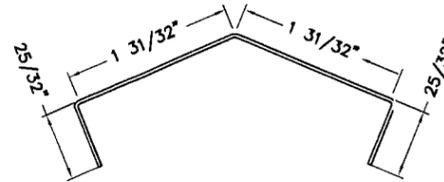
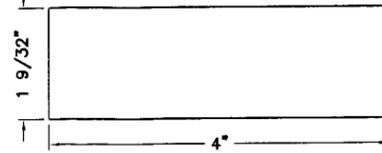
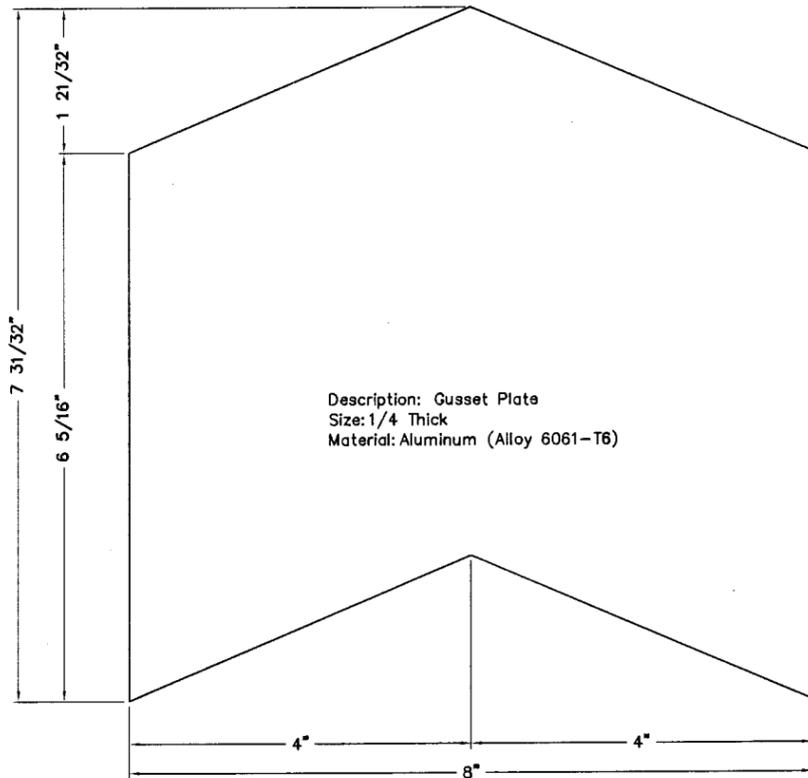
DATE: 2-4-10
 SCALE: HALF
 SHEET: 13 of 14



Description: Structural Aluminum Angle
Size: 3/8 x 4 x 4
Material: Aluminum (Alloy 6061-T6)



Description: Structural Aluminum Angle
Size: 3/8 x 3 x 3
Material: Aluminum (Alloy 6061-T6)



Description: Pop Rivet
Size: 1/8 x 1/4
Material: Aluminum



Description: Pan Head Sheet Metal Screw (Pan Hd. S.M.S.)
Size: #10 x 1/2
Material: Stainless Steel



Description: Hex Washer Head Tek Screw (H.W.H. Tek Screw)
Size: #12 x 1
Material: SAE Grade 2 Steel



Description: Flat Head Screw Type "F" (F.H.S. Type "F")
Size: 1/4-20 x Varies
Material: SAE Grade 2 Steel



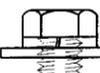
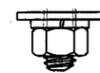
Description: Hex Washer Head Tek Screw (H.W.H. Tek Screw)
Size: #14 x 1 1/2
Material: SAE Grade 2 Steel



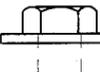
Description: Hex Washer Head Screw Type "F" (H.W.H. Screw Type "F")
Size: 1/4-20 x 1 3/4
Material: SAE Grade 2 Steel



Description: Hex Head Cap Screw with Finish Nut, Flat Washers and Lockwasher
Size: 3/8-16 x 4 1/2
Material: ASTM Grade 2 Steel



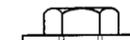
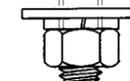
Description: Hex Head Tap Bolt with Flat Washer and Lockwasher
Size: 1/2-13 x 2
Material: ASTM A449 Grade 5



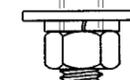
Description: Hex Head Tap Bolt with Finish Nut, Flat Washers and Lockwasher
Size: 1/2-13 x 1 1/2
Material: ASTM Grade 2 Steel



Description: Hex Head Cap Screw with Finish Nut, Flat Washers and Lockwasher
Size: 1/2-13 x 4 1/2
Material: SAE Grade 2 Steel



Description: Hex Head Cap Screw with Finish Nut, Flat Washers and Lockwasher
Size: 5/8-11 x 4 1/2
Material: ASTM A307 Steel



NOTES:
1. SEE SHEET 6 OF 14 FOR GLASS SIZES AND TYPES.

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<p>PRODUCT NAME: SECURE SERIES PRODUCT TYPE: SMALL MISSILE DRAWING TITLE: BILL OF MATERIALS</p>		<p>DATE: 2-10-10 SCALE: HALE: DRAWING FILE: SHEET: 14 of 14</p>

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