



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
 PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
 T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

PCI Industries Inc. dba All-Lite Arch. Products
 5101 Blue Mound Road
 Fort Worth, TX 76106

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model ECV-645-MD Aluminum Louver

APPROVAL DOCUMENT: Drawing No. ECV-645-MD NOA, titled "ECV-645-MD", sheets 1 through 15 of 15, dated 08/27/2013, with revision 5 dated 10/10/2014, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and 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 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by Carlos M. Utrera, P.E.



[Handwritten signature]
 10/15/2015

NOA No. 14-0605.12
 Expiration Date: January 22, 2020
 Approval Date: January 22, 2015
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **ECV-645-MD NOA**, titled "ECV-645-MD", sheets 1 through 15 of 15, dated 08/27/2013, with revision 5 dated 10/10/2014, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of Model ECV-645-MD Aluminum Louvers, prepared by Architectural Testing, Inc, Test Report No. **C8134.01-801-18**, dated 02/24/2014, signed and sealed by Vinu J. Abraham, P.E.
2. Test Report on High Velocity Wind Driven Rain Resistance per AMCA 550 of a Model ECV-645 Aluminum Louver, prepared by Architectural Testing, Inc, Test Report No. **C3038.02-801-44**, dated 11/02/2012, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. ECV-545-MD louver structural calculations prepared by Rice Engineering, dated 10/22/2014, signed and sealed by Wayne K. Helmila, P.E.
2. ECV-545-MD louver calculations prepared by Rice Engineering, dated 05/15/2014, signed and sealed by L. David Rice, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. Test report on impact test per AMCA 540 of a Model ECV-645-MD Aluminum Louver, prepared by Architectural Testing, Inc, Test Report No. **C6155.01-801-18**, dated 10/21/2013, signed and sealed by Vinu J. Abraham, P.E.

F. STATEMENTS

1. Statement letter of code conformance to 2010 FBC issued by Rice Engineering, dated 05/15/2014, signed and sealed by L. David Rice, P.E.
2. No financial interest letter issued by Rice Engineering, dated 05/15/2014, signed and sealed by L. David Rice, P.E.



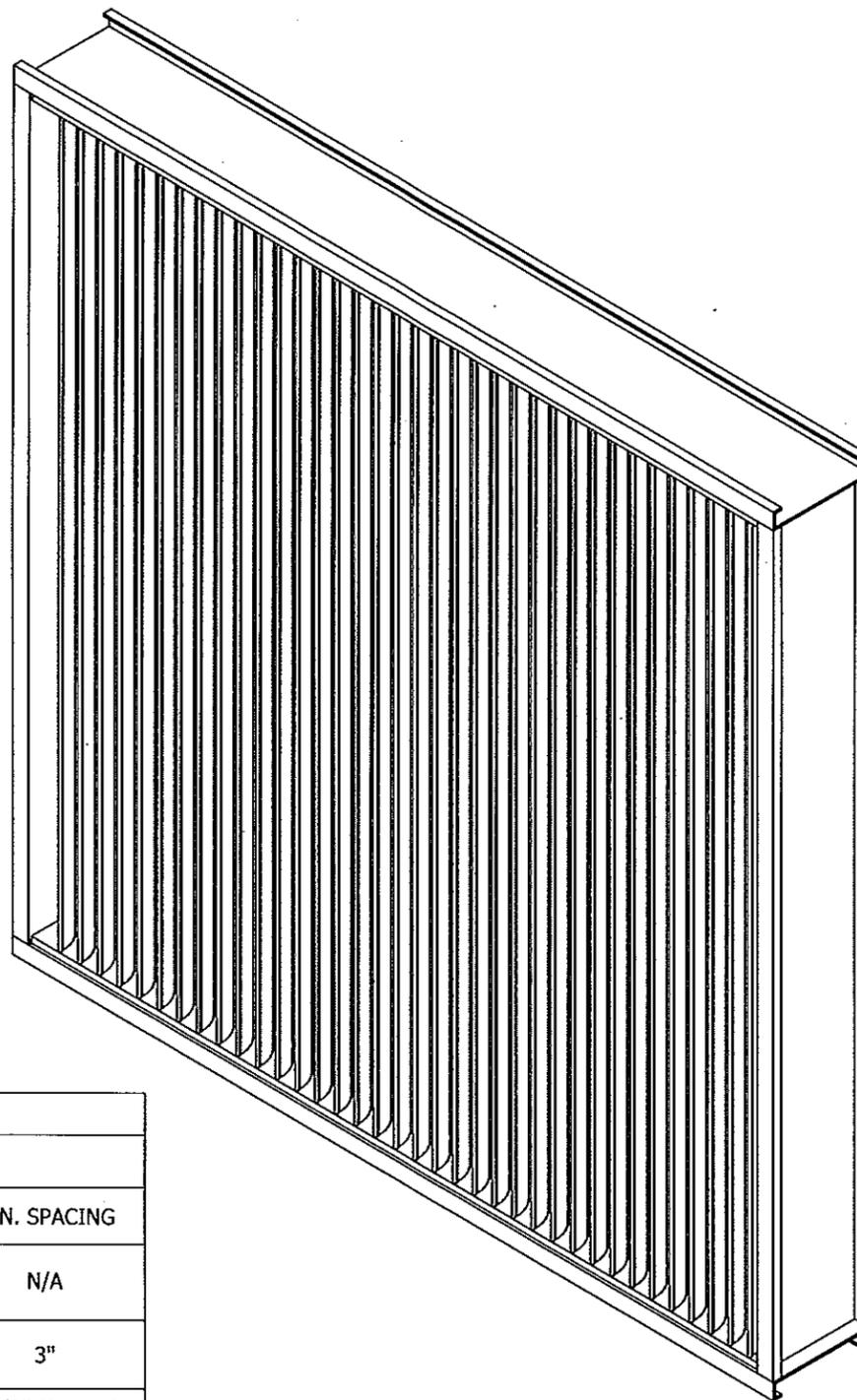
Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 14-0605.12

Expiration Date: January 22, 2020
Approval Date: January 22, 2015

I:\0 ENGINEERING PROJECTS\LOUVERS\NO SO ECV-645MD NOA Creation\Submission Documents\REV. 5\NOA ECV-645-MD Drawing - ALL-LITE REV. 5

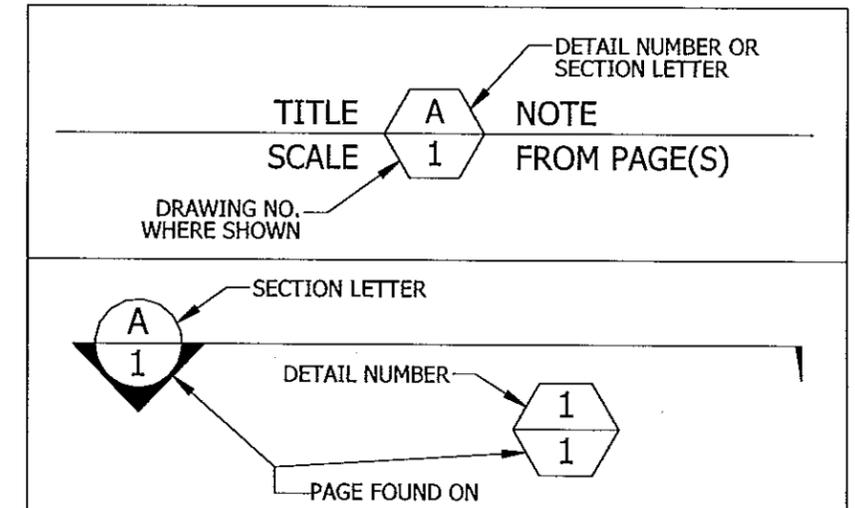
NOTES:

1. THIS NOA DRAWING INCLUDES INSTALLATION DETAILS TO ATTAIN MAXIMUM DESIGN PRESSURES OF 150 PSF AS TESTED IN ACCORDANCE WITH PROTOCOLS TAS 201, TAS 202, TAS 203, AMCA 540, & AMCA 550 FOR USE WITHIN HIGH VELOCITY HURRICANE-AFFECTED ZONES DEFINED BY THE FLORIDA BUILDING CODE.
2. ALL VARIATIONS ARE LARGE MISSILE IMPACT RESISTANT.
3. UNITS OF MEASURE ARE IN FRACTIONAL INCHES UNLESS OTHERWISE SPECIFIED.
4. IT IS ASSUMED THAT THE LOUVER SYSTEMS DO NOT SUPPORT ANY LOADS TRANSFERRED FROM THE BUILDING CONDITION.
5. IT IS ASSUMED THAT THE BUILDING CONDITIONS ARE ADEQUATELY DESIGNED TO SUPPORT LOADS IMPARTED BY THE LOUVER SYSTEM.
6. TO PREVENT GALVANIC CORROSION, ELECTROCHEMICALLY DISSIMILAR MATERIALS IN CONTACT WITH ONE ANOTHER SHALL BE PROTECTED BY PAINT, GASKETING OR OTHER MEANS PER THE FLORIDA BUILDING CODE.
7. OTHER BUILDING CONDITIONS THAN THOSE DENOTED CAN BE UTILIZED IF ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.
8. MULTI-SECTION WIDE AND HIGH LOUVER SYSTEMS ARE ALLOWABLE PROVIDED THE INDIVIDUAL SECTIONS ARE SUPPORTED PER THE DETAILS ON THIS DRAWING AND A SUITABLE SUPPORT STRUCTURE IS ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.



| TABLE 1 | | |
|---------------------------------|-------------|-------------|
| SINGLE SECTION SIZE LIMITATIONS | | |
| MAX DESIGN PRESSURE | MIN (W X H) | MAX (W X H) |
| 150 PSF | 13 X 6-1/2 | 60 X 120 |

| TABLE 2 | |
|---|--------------------|
| MULTIPLE SECTION SIZE LIMITATIONS (MAX DESIGN PRESSURE: 150 PSF) | |
| SINGLE SECTION HIGH - UNLIMITED WIDTH | SEE SHEETS 11 & 12 |



| TABLE 3 | | | | |
|---|---|----------------|------------------------------------|------------------------------------|
| ANCHOR SCHEDULE | | | | |
| SUBSTRATE | ANCHOR TYPE | MIN. EMBEDMENT | MIN. EDGE DISTANCE | MIN. SPACING |
| STEEL (12 GA MIN. THICKNESS F _y = 30 KSI MIN.) | #12-14 X 1" SELF-DRILLING TEK MACHINE SCREW (F-7) | FULL | 3/8" | N/A |
| WOOD (S.G. = 0.43 MIN.) | 1/2" X 3-1/2" LAG BOLT WITH FLAT WASHER (F-9) | 3" | 2-1/2" | 3" |
| CONCRETE (f _c = 2000 PSI MIN.) | 1/2" X 5-1/2" HILTI KWIK-BOLT TZ EXPANSION ANCHOR (F-10) | 3-1/4" | 2-7/8" (SHEAR) 2-1/8" (TENSION) | 6-1/2" (SHEAR) 9-1/2" (TENSION) |
| GROUT-FILLED CMU (f _m = 1500 PSI MIN.) | 5/8" X 5-1/2" HILTI KWIK-BOLT III EXPANSION ANCHOR (F-8) | 4" | 4" | 9-1/2" |

P.E. STAMP

RICE ENGINEERING
 105 School Creek Trail
 Luxemburg, WI 54217
 Phone: 920-845-1042
 Fax: 920-845-1048
 www.rice-inc.com
 Florida Firm No: F-01000005061
 Certificate of Authorization: #9090
 Wayne K. Helmila
 Registration No: 59092
 OCT 22 2014

Approved as complying with the Florida Building Code
 Date: 01/22/2015
 NOA: 14-1605.12
 Miami Dade Product Control
 By: *[Signature]*

| REV. | DESCRIPTION | DATE | DRAWN BY |
|------|------------------------------------|------------|----------|
| 5 | CHANGED LOUVER MATERIAL TO 6063-T6 | 10/10/2014 | NW |
| 4 | REVISED PER MIAMI DADE COUNTY | 8/22/2014 | JG |
| 3 | REVISED PER RICE MARKUPS | 4/23/2014 | JG |
| 2 | REVISED INSTALLATION DETAILS | 1/27/2014 | JG |
| 1 | INITIAL RELEASE | 8/26/2013 | LGH |

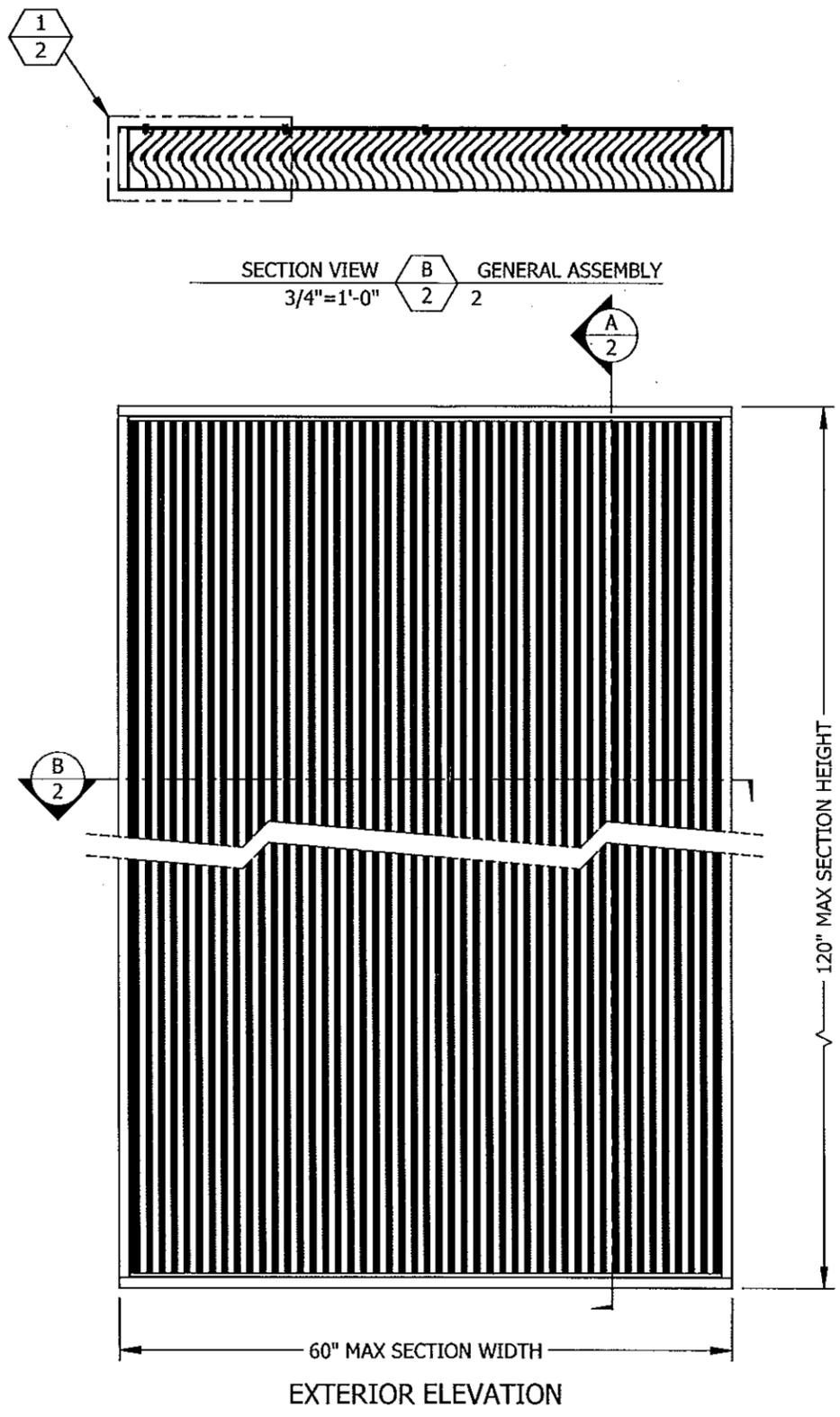
UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.
 TOLERANCE UNLESS NOTED:
 X.X ±0.030
 X.XX ±0.015
 X.XXX ±0.010
 ANGLE ±1°
 FRACTION ±1/16
 MAX HOLE BREAKOUT:
 15% OF MATERIAL THICKNESS

5101 Blue Mound Road
 Fort Worth, Texas 76106
 Phone: 817-509-2300
 Fax: 817-831-3110
 THIRD ANGLE PROJECTION

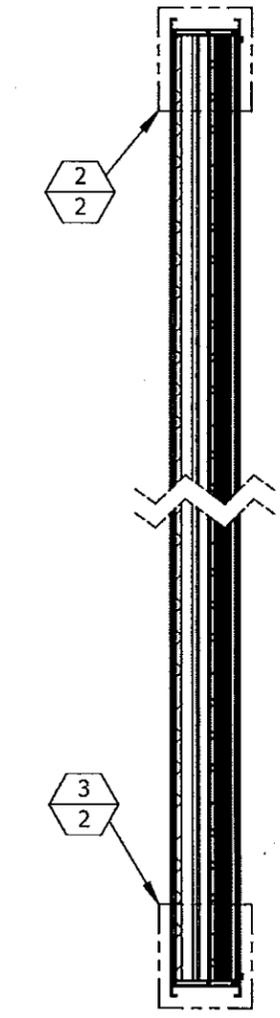
PCI INDUSTRIES DOING BUSINESS AS
ALL-LITE
 ARCHITECTURAL PRODUCTS

| | | | |
|----------------------------|---------------|----------------------------------|-------------|
| DRAWING DESCR: COVER SHEET | | | |
| PROJECT: ECV-645-MD | | | |
| LOCATION: | | | |
| CUSTOMER: | | | |
| PROJ. MGR: | DRAWN BY: LGH | | |
| DATE: 8/27/2013 | CHK'D BY: NW | ORDER NUMBER | P.O. NUMBER |
| SHEET: 1 of 15 | SCALE: NONE | DRAWING NUMBER ECV-645-MD NOA | |

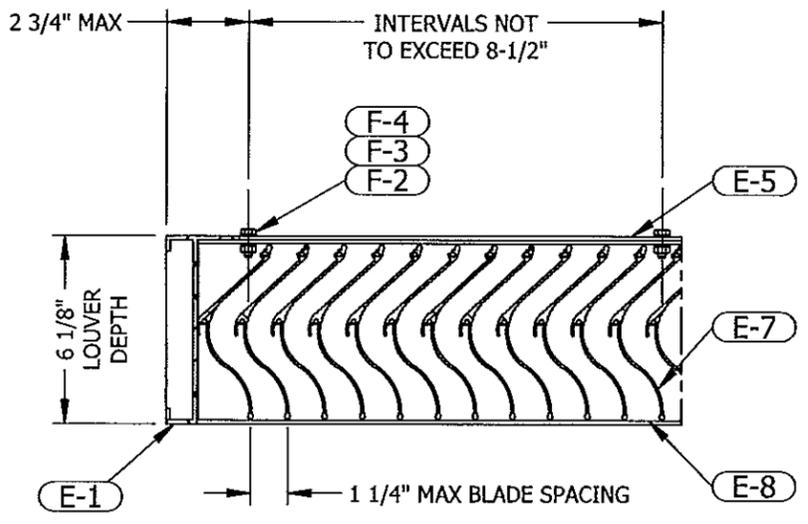
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SECTION VIEW $\frac{1}{2}$ GENERAL ASSEMBLY
 $\frac{3}{4}''=1'-0''$



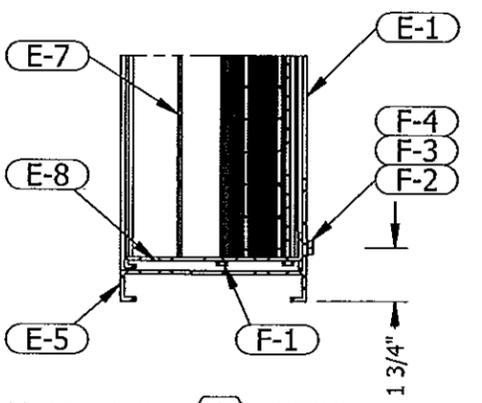
SECTION VIEW $\frac{1}{2}$ GENERAL ASSEMBLY
 $\frac{3}{4}''=1'-0''$



CONSTRUCTION $\frac{1}{2}$ DETAIL
 $2-1/4''=1'-0''$

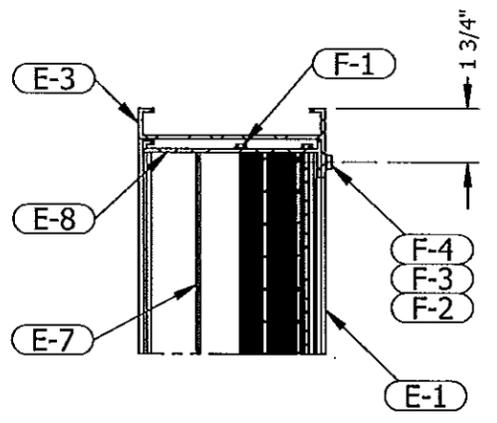
IN FLANGED CONFIGURATIONS:
 E-2 WILL BE USED IN PLACE OF E-1
 E-6 WILL BE USED IN PLACE OF E-5

Approved as complying with the
 Florida Building Code
 Date: 8/22/2014
 NOA: E-0605-12
 Miami Dade Product Control
 By: [Signature]



CONSTRUCTION $\frac{3}{2}$ DETAIL
 $2-1/4''=1'-0''$

IN FLANGED CONFIGURATIONS:
 E-2 WILL BE USED IN PLACE OF E-1
 E-6 WILL BE USED IN PLACE OF E-5



CONSTRUCTION $\frac{2}{2}$ DETAIL
 $2-1/4''=1'-0''$

IN FLANGED CONFIGURATIONS:
 E-2 WILL BE USED IN PLACE OF E-1
 E-4 WILL BE USED IN PLACE OF E-3

P.E. STAMP

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 105 School Creek Trail
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Florida Firm No: F-01000005061
 Certificate of Authorization: #9090
 Wayne K. Helmila
 Registration No: 59092

WAYNE K. HELMILA
 LICENSE
 No. 59092
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 OCT 22 2014

| REV. | DESCRIPTION | DATE | DRAWN BY |
|------|------------------------------------|------------|----------|
| 5 | CHANGED LOUVER MATERIAL TO 6063-T6 | 10/10/2014 | NW |
| 4 | REVISED PER MIAMI DADE COUNTY | 8/22/2014 | JG |
| 3 | REVISED PER RICE MARKUPS | 4/23/2014 | JG |
| 2 | REVISED INSTALLATION DETAILS | 1/27/2014 | JG |
| 1 | INITIAL RELEASE | 8/26/2013 | LGH |

UNLESS OTHERWISE SPECIFIED
 DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
 X.X ±0.030
 X.XX ±0.015
 X.XXX ±0.010
 ANGLE ±1°
 FRACTION ±1/16

MAX HOLE BREAKOUT:
 15% OF MATERIAL THICKNESS

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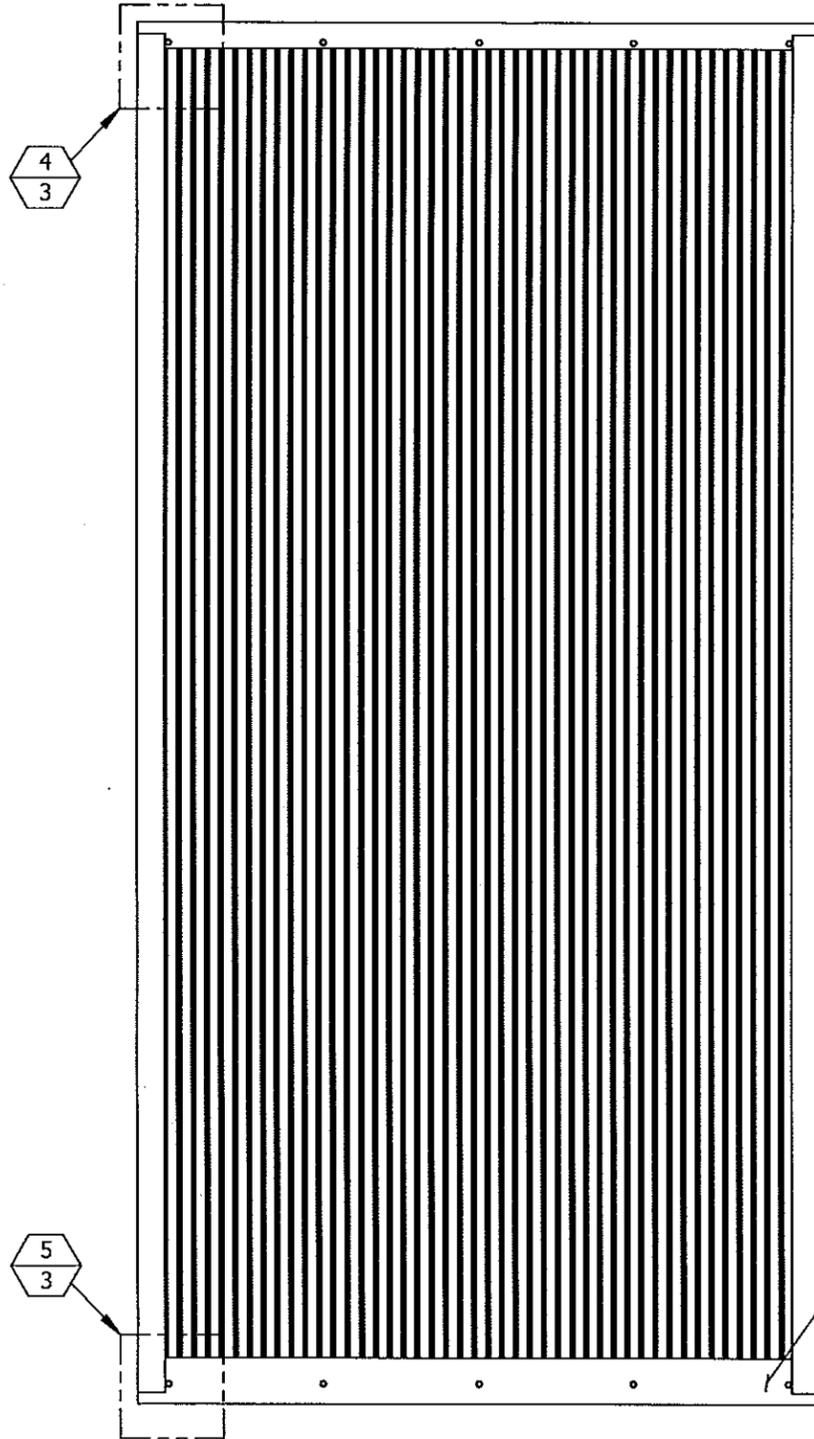
THIRD ANGLE PROJECTION

PCI INDUSTRIES DOING BUSINESS AS
ALL-LITE
 ARCHITECTURAL PRODUCTS

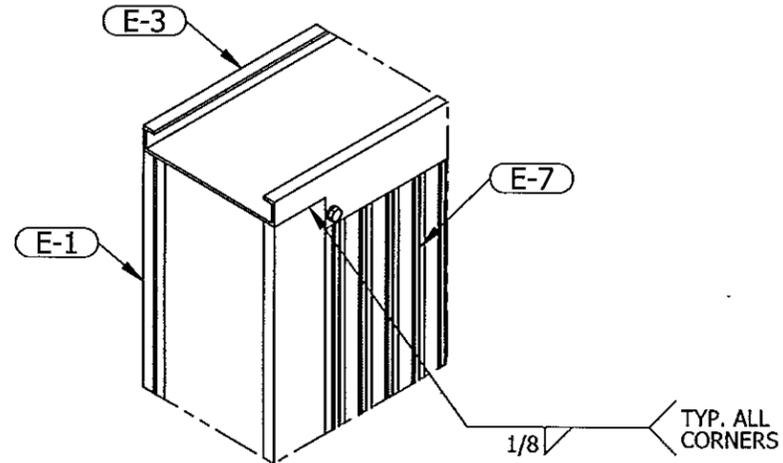
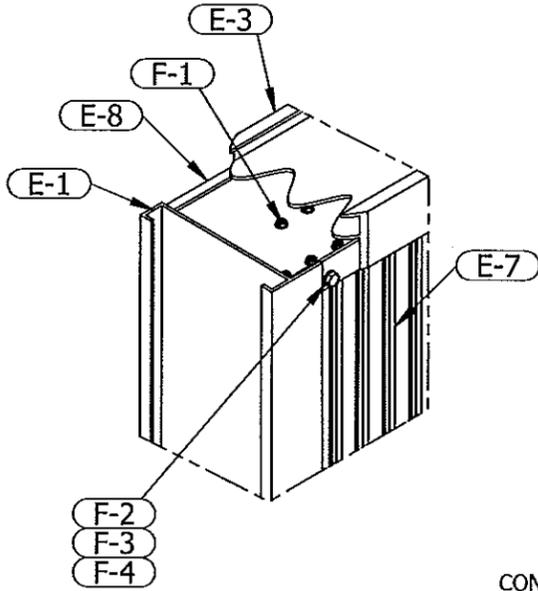
| | | | |
|--|-------------------|--------------|----------------|
| DRAWING DESCR: GENERAL LOUVER ASSEMBLY | | | |
| PROJECT: ECV-645-MD | | | |
| LOCATION: | | | |
| CUSTOMER: | | | |
| PROJ. MGR: | DRAWN BY: LGH | | |
| DATE: 8/27/2013 | CHK'D BY: NW | ORDER NUMBER | P.O. NUMBER |
| SHEET: 2 of 15 | SCALE: 3/4"=1'-0" | | DRAWING NUMBER |
| | | | ECV-645-MD NOA |

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GENERAL LOUVER ASSEMBLY



INTERIOR ELEVATION



CONSTRUCTION $\frac{4}{3}$ DETAIL $\frac{4}{3}$
 2-1/4" = 1'-0"

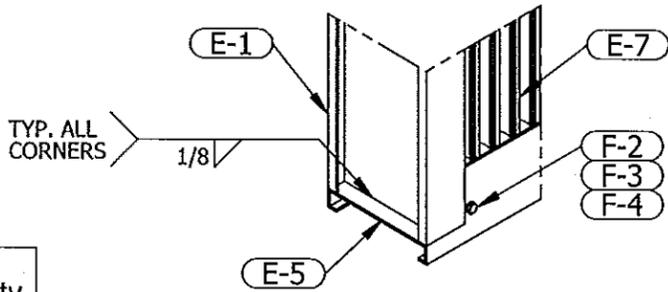
IN FLANGED CONFIGURATIONS:
 E-2 WILL BE USED IN PLACE OF E-1
 E-4 WILL BE USED IN PLACE OF E-3

Approved as complying with the
 Florida Building Code
 Date 01/22/2015
 NOA# 14-0603-12
 Miami Dade Product Control
 By *[Signature]*

ENGRAVED LABEL DETAIL

PCI Industries Inc d/b/a
ALL-LITE
 Ft Worth TX
 SO# 123456

Miami Dade County
 Product Control
 Approved



CONSTRUCTION $\frac{5}{3}$ DETAIL $\frac{5}{3}$
 2-1/4" = 1'-0"

IN FLANGED CONFIGURATIONS:
 E-2 WILL BE USED IN PLACE OF E-1
 E-6 WILL BE USED IN PLACE OF E-5

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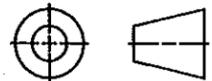
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TOLERANCE UNLESS NOTED:
 X.X ±0.030
 X.XX ±0.015
 X.XXX ±0.010
 ANGLE ±1°
 FRACTION ±1/16

MAX HOLE BREAKOUT:
 15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS
ALL-LITE
 ARCHITECTURAL PRODUCTS

DRAWING DESCR: GENERAL LOUVER ASSEMBLY

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

CHK'D BY: NW

SHEET: 3 of 15

SCALE: 3/4" = 1'-0"

DRAWN BY: LGH

ORDER NUMBER

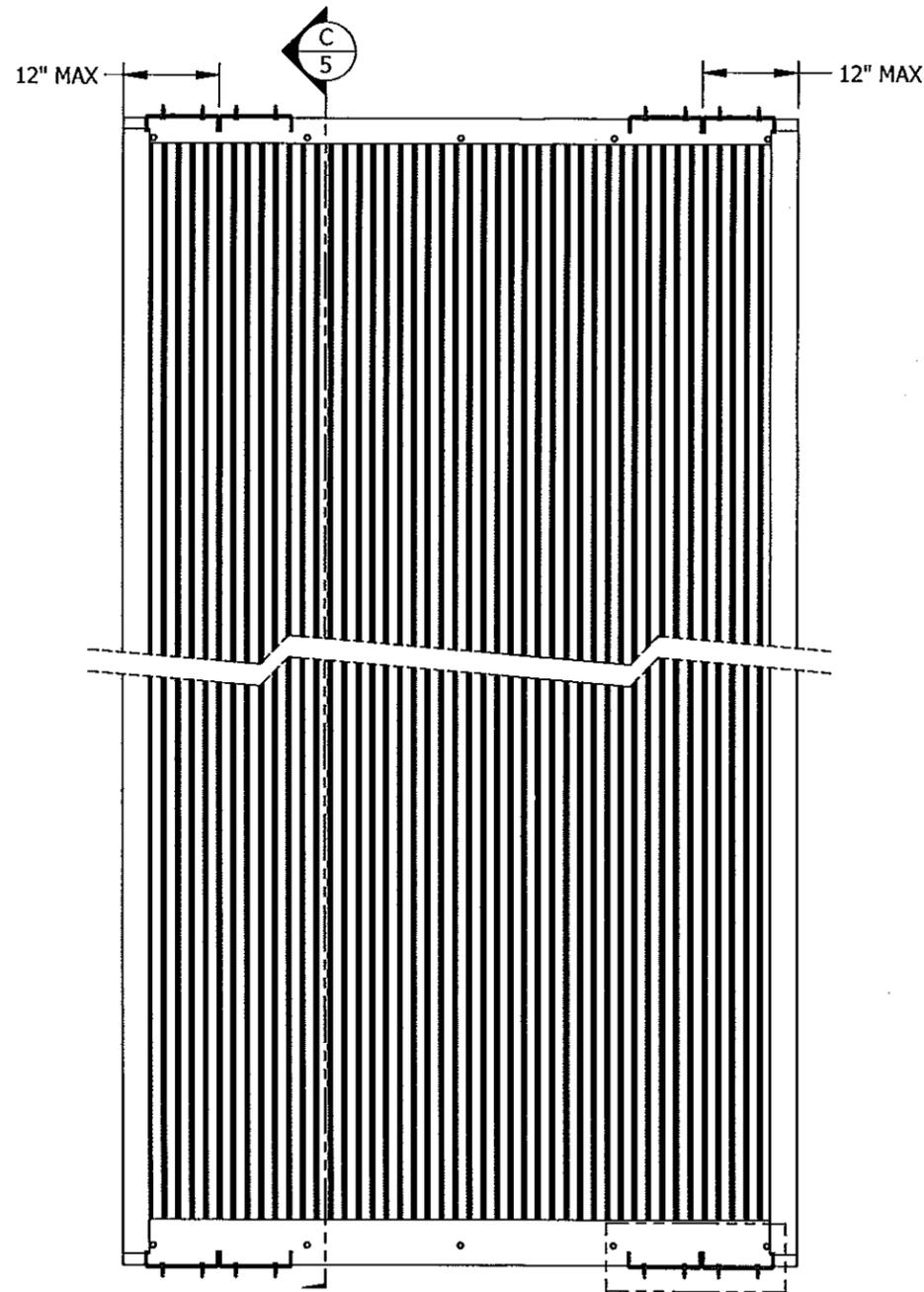
P.O. NUMBER

DRAWING NUMBER

ECV-645-MD NOA

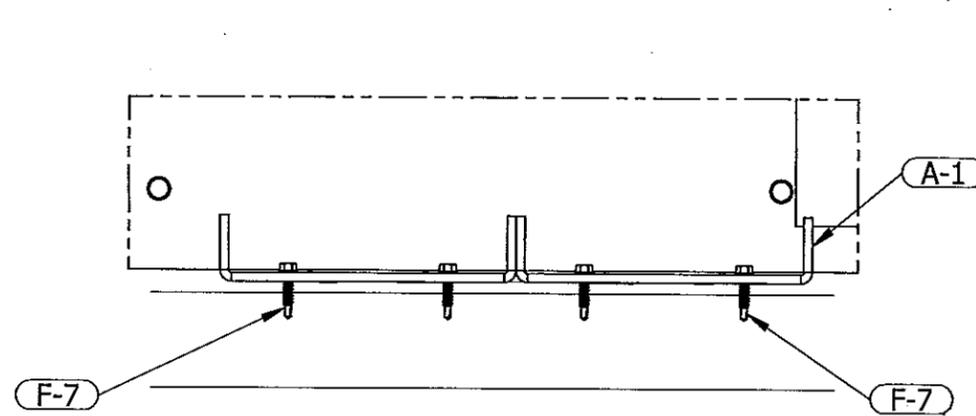
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SINGLE SECTION WIDE X SINGLE SECTION HIGH - STEEL CONDITION

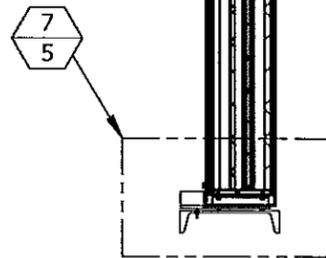


INTERIOR ELEVATION

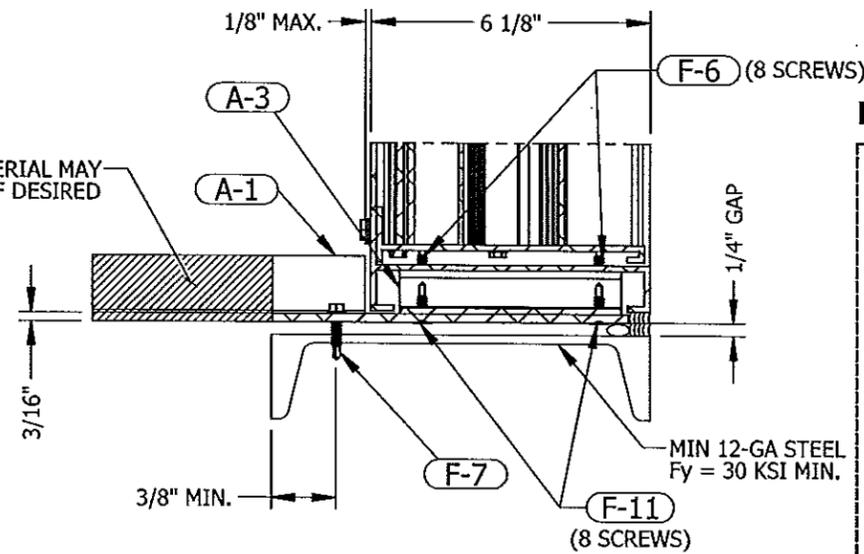
6
5 SINGLE SECTION HIGH C
3/4" = 1'-0" 5 STEEL CONDITION



TOP & BTM MOUNT DETAIL 6 STEEL CONDITION
3" = 1'-0" 5 4, 5, 11



EXCESS MATERIAL MAY BE REMOVED IF DESIRED



TOP & BTM MOUNT DETAIL 7 STEEL CONDITION
3" = 1'-0" 5 5, 11

Approved as complying with the
Florida Building Code
Date 01/22/2015
NOA# 14-0005,12
Miami Dade Product Control
By *[Signature]*

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Wayne K. Helmila
Registration No: 59092

WAYNE K. HELMILA
LICENSE
No. 14999
STATE OF FLORIDA
PROFESSIONAL ENGINEER

OCT 22 2014

NOTE: THE ELEVATION VIEW INCLUDED ON THIS PAGE SHOWS THE ATTACHMENT LOCATIONS FOR A LOUVER SECTION BETWEEN 37" AND 60" WIDE. REFER TO SHEET 4 FOR ATTACHMENT LOCATIONS ON LOUVER SECTIONS LESS THAN 37" WIDE.

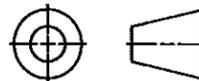
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THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS
ALL-LITE
ARCHITECTURAL PRODUCTS

DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - STEEL CONDITION

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DRAWN BY: LGH

DATE: 8/27/2013

CHK'D BY: NW

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

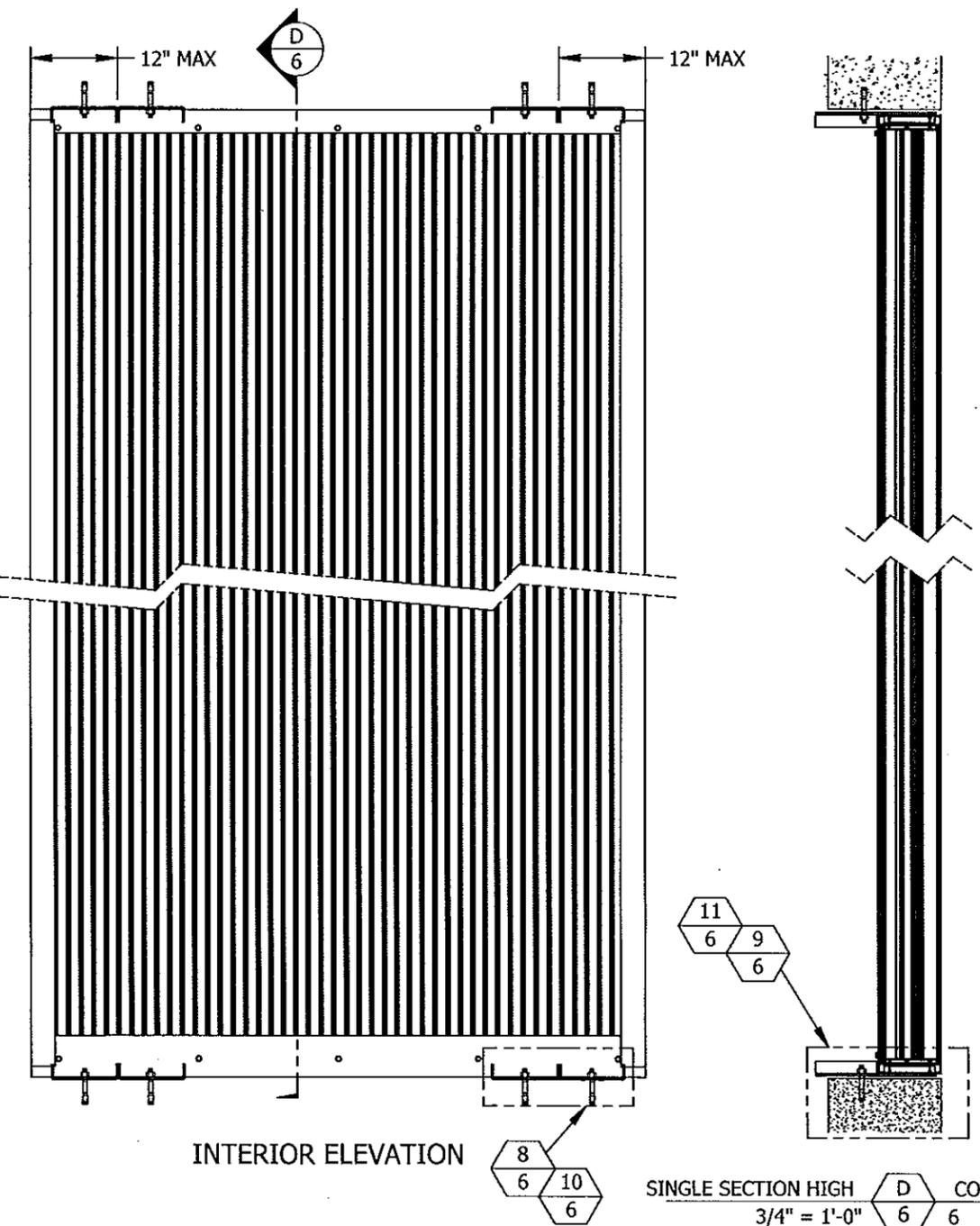
SHEET: 5 of 15

SCALE: 3/4" = 1'-0"

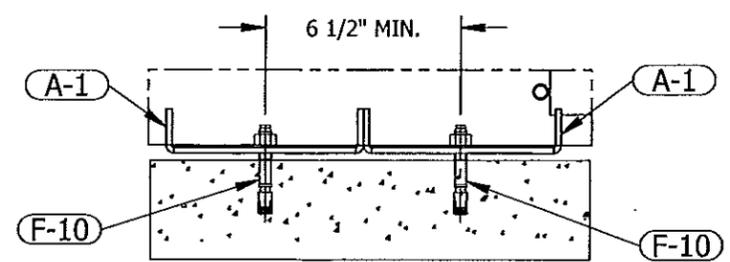
ECV-645-MD NOA

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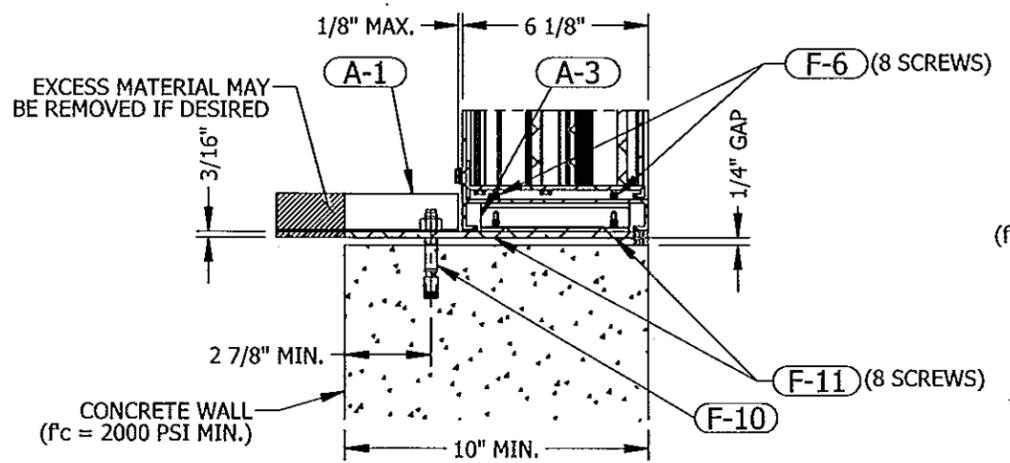
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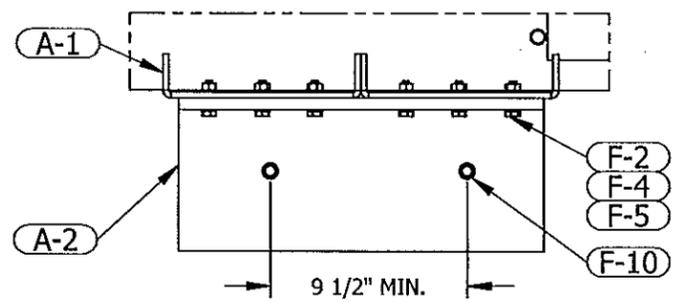
SINGLE SECTION WIDE X SINGLE SECTION HIGH - CONCRETE CONDITION



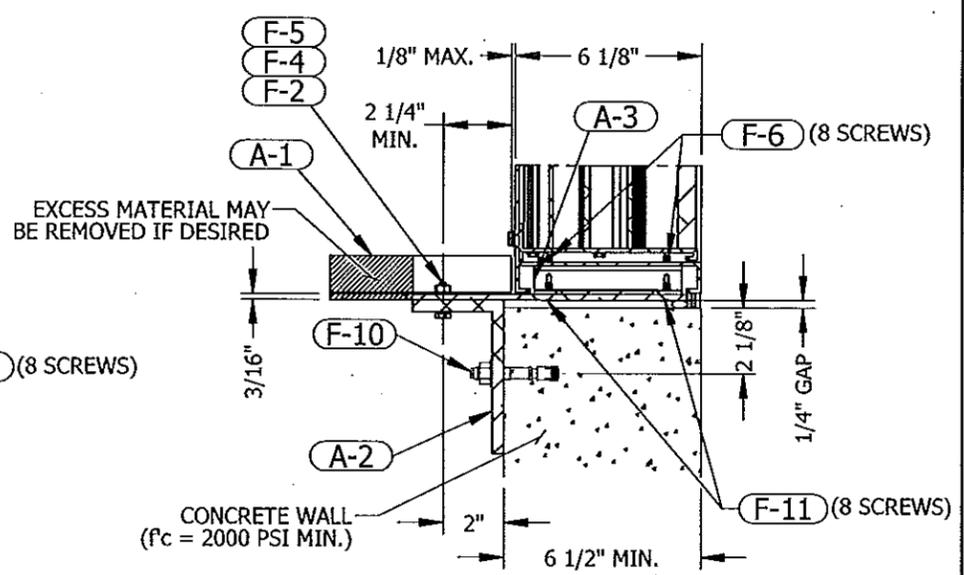
TOP & BTM MOUNT DETAIL **8** CONCRETE CONDITION
6"=1'-0" **6** 4, 6, 11
SHEAR CONNECTION
(FOR WALL OVER 10" THICK)



TOP & BTM MOUNT DETAIL **9** CONCRETE CONDITION
6"=1'-0" **6** 6, 11
SHEAR CONNECTION
(FOR WALL OVER 10" THICK)



TOP & BTM MOUNT DETAIL **10** CONCRETE CONDITION
6"=1'-0" **6** 4, 6, 11
TENSION CONNECTION
(WALL THICKNESS 6-1/2" MIN, 10" MAX)



TOP & BTM MOUNT DETAIL **11** CONCRETE CONDITION
6"=1'-0" **6** 6, 11
TENSION CONNECTION
(WALL THICKNESS 6-1/2" MIN, 10" MAX)

P.E. STAMP

WAYNE K. HELMILA
LICENSED PROFESSIONAL ENGINEER
No. 59092
STATE OF FLORIDA

RICE ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: 920-845-1042
Fax: 920-845-1048
www.rice-inc.com

OCT 22 2014

Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

Approved as complying with the Florida Building Code
Date: 01/22/2015
NOA# 12-0605.12
Miami Dade Product Control
By: *[Signature]*

NOTE: THE ELEVATION VIEW INCLUDED ON THIS PAGE SHOWS THE ATTACHMENT LOCATIONS FOR A LOUVER SECTION BETWEEN 37" AND 60" WIDE. REFER TO SHEET 4 FOR ATTACHMENT LOCATIONS ON LOUVER SECTIONS LESS THAN 37" WIDE.

| REV. | DESCRIPTION | DATE | DRAWN BY |
|------|------------------------------------|------------|----------|
| 5 | CHANGED LOUVER MATERIAL TO 6063-T6 | 10/10/2014 | NW |
| 4 | REVISED PER MIAMI DADE COUNTY | 8/22/2014 | JG |
| 3 | REVISED PER RICE MARKUPS | 4/23/2014 | JG |
| 2 | REVISED INSTALLATION DETAILS | 1/27/2014 | JG |
| 1 | INITIAL RELEASE | 8/26/2013 | LGH |

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
X.X ±0.030
X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

5101 Blue Mound Road
Fort Worth, Texas 76106
Phone: 817-509-2300
Fax: 817-831-3110

THIRD ANGLE PROJECTION

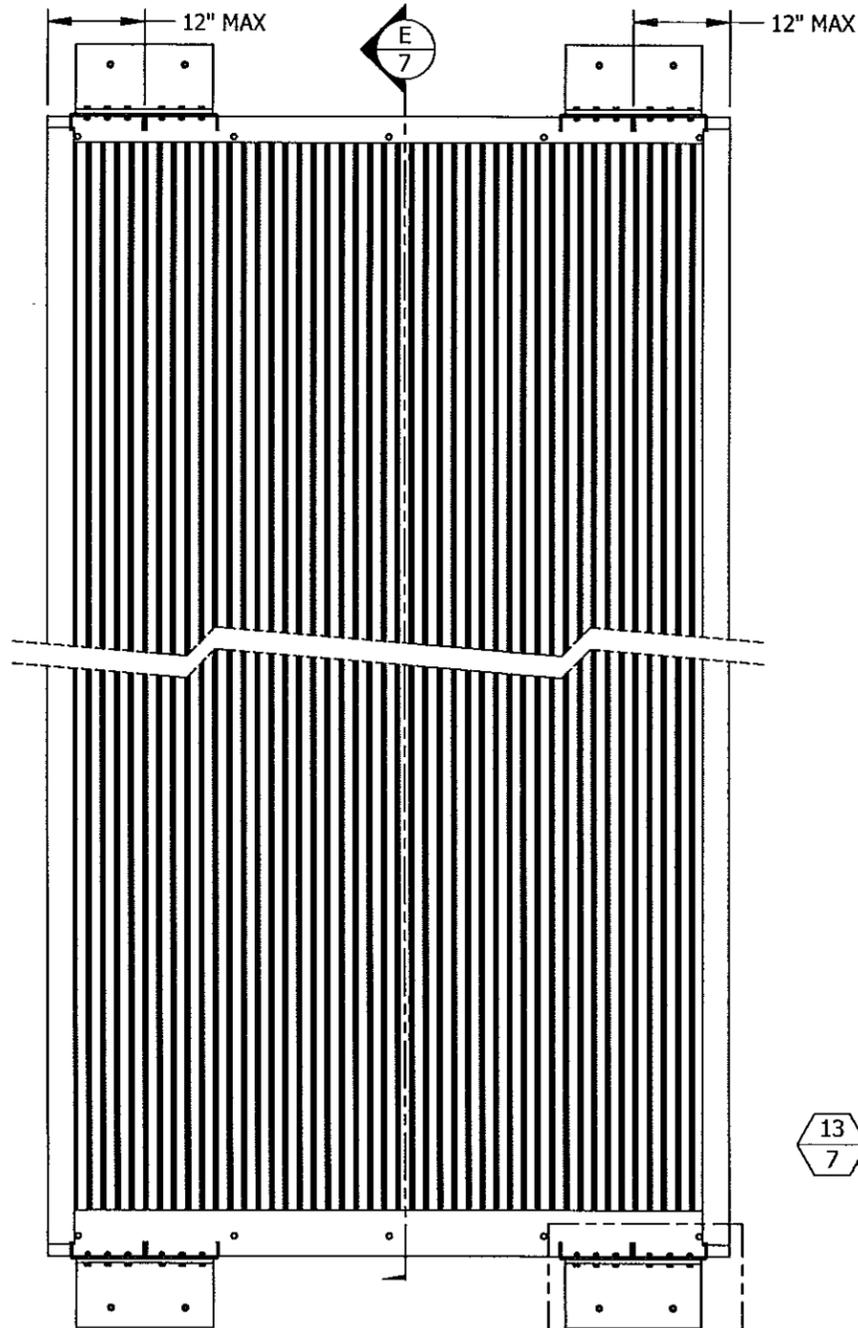
PCI INDUSTRIES DOING BUSINESS AS

ALL-LITE

ARCHITECTURAL PRODUCTS

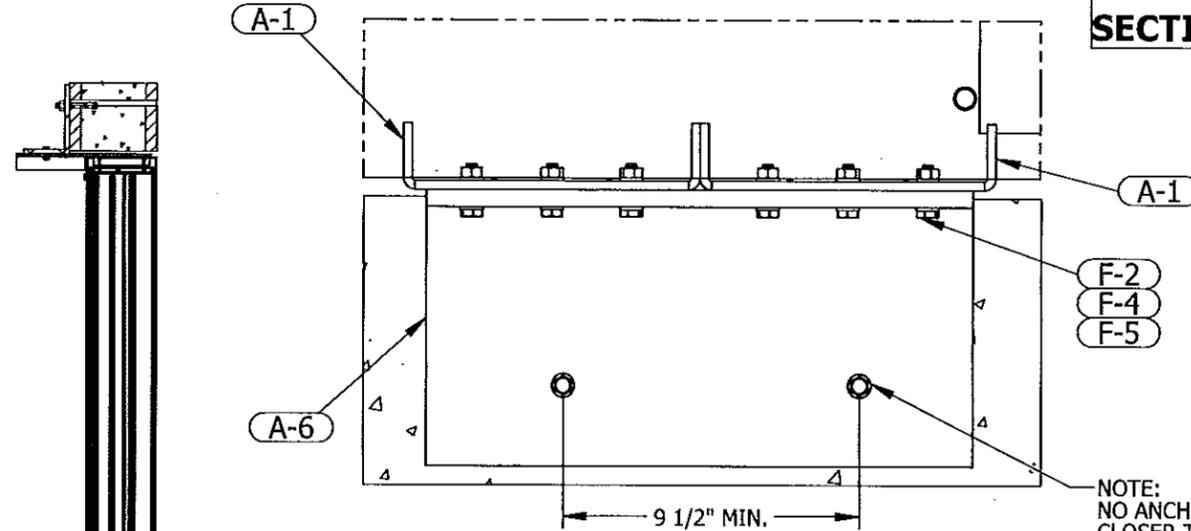
| | | | | |
|---|-------------------|---------------|-------------|----------------|
| DRAWING DESCR: SINGLE SEC. WIDE X SINGLE SEC. HIGH - CONCRETE CONDITION | | | | |
| PROJECT: ECV-645-MD | | | | |
| LOCATION: | | | | |
| CUSTOMER: | | | | |
| PROJ. MGR: | | DRAWN BY: LGH | | |
| DATE: 8/27/2013 | CHK'D BY: NW | ORDER NUMBER | P.O. NUMBER | DRAWING NUMBER |
| SHEET: 6 of 15 | SCALE: 3/4"=1'-0" | | | ECV-645-MD NOA |

I:\0 ENGINEERING PROJECTS\LOUVERS\NO 50 ECV-645MD NOA Creation\Submittal Documents\REV. 5\NOA ECV-645-MD Drawing - ALL-LITE REV. 5



INTERIOR ELEVATION

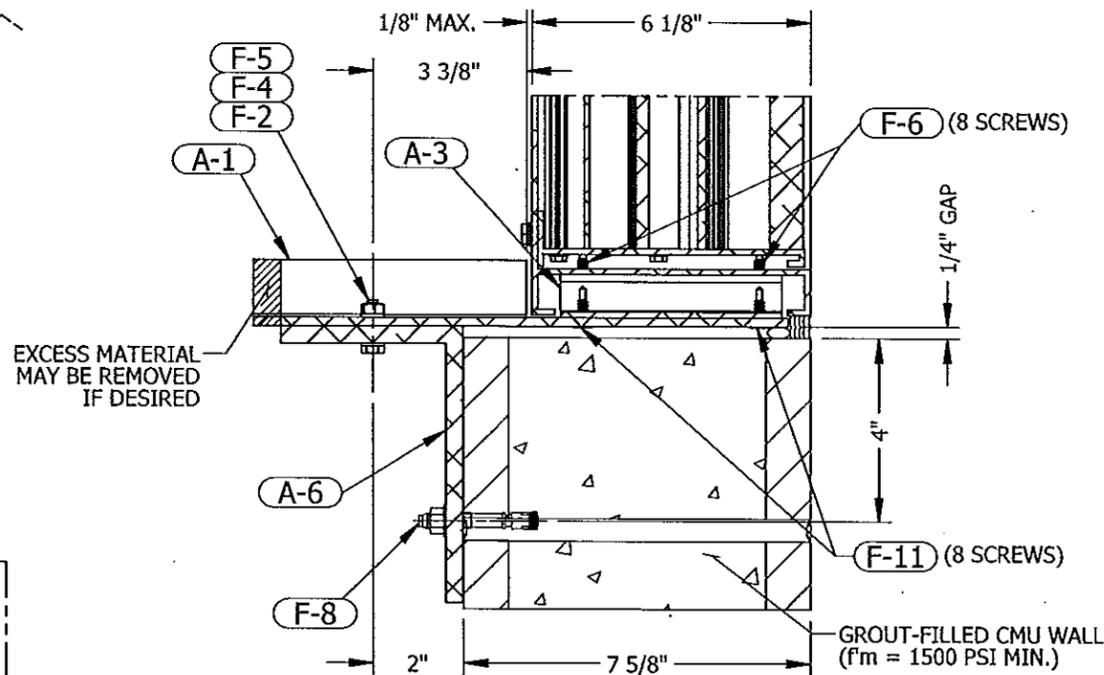
12
7
SINGLE SECTION HIGH E CMU CONDITION
3/4" = 1'-0" 7



TOP & BTM MOUNT DETAIL 12 CMU CONDITION
3" = 1'-0" 7 4, 7, 11

SINGLE SECTION WIDE X SINGLE SECTION HIGH - GROUT-FILLED CMU CONDITION

NOTE:
NO ANCHOR MAY BE LOCATED CLOSER THAN 1-3/8" TO A VERTICAL JOINT BETWEEN CMU BLOCKS AND NO CELL IN EACH BLOCK MAY BE PENETRATED BY MORE THAN ONE ANCHOR.



TOP & BTM MOUNT DETAIL 13 CMU CONDITION
3" = 1'-0" 7 7, 11

EXCESS MATERIAL MAY BE REMOVED IF DESIRED

GROUT-FILLED CMU WALL (f'm = 1500 PSI MIN.)

Approved as complying with the Florida Building Code
Date 01/22/2015
NOA# 14-0005.12
Miami Dade Product Control
By *[Signature]*

P.E. STAMP

WAYNE K. HELMILLA
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STATE OF FLORIDA
PROFESSIONAL ENGINEER

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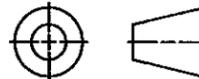
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ANGLE ±1°
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MAX HOLE BREAKOUT:
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THIRD ANGLE PROJECTION



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ARCHITECTURAL PRODUCTS

DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - CMU CONDITION

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DRAWN BY: LGH

DATE: 8/27/2013

CHK'D BY: NW

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

SHEET: 7 of 15

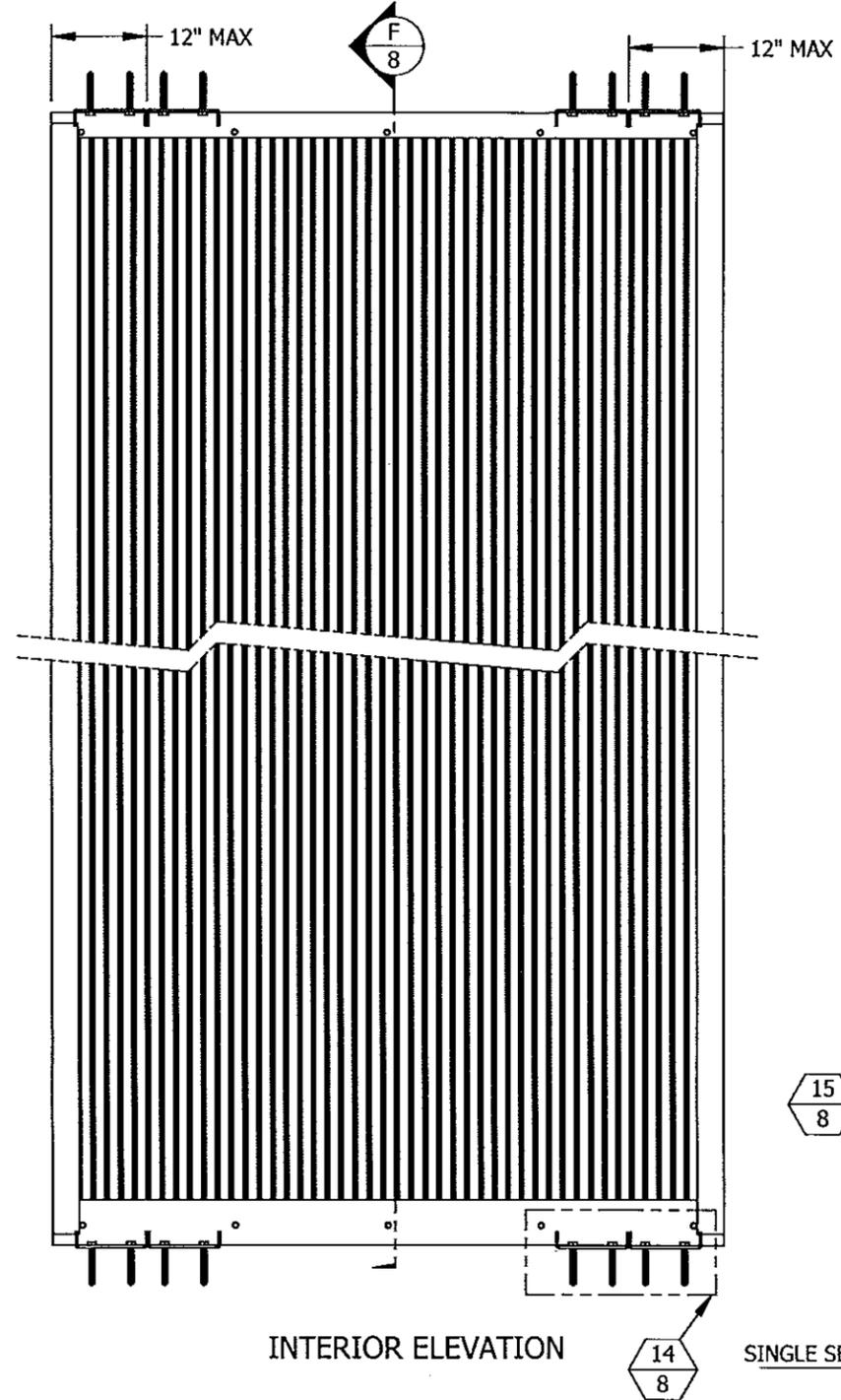
SCALE: 3/4" = 1'-0"

ECV-645-MD NOA

| REV. | DESCRIPTION | DATE | DRAWN BY |
|------|------------------------------------|------------|----------|
| 5 | CHANGED LOUVER MATERIAL TO 6063-T6 | 10/10/2014 | NW |
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I:\0 ENGINEERING PROJECTS\LOUVERS\NO SO ECV-645MD NOA Creation\Submittal Documents\REV. 5\NOA ECV-645-MD Drawing - ALL-LITE REV. 5

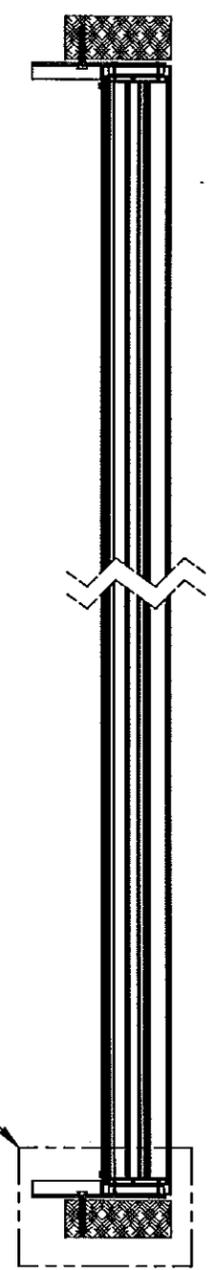
SINGLE SECTION WIDE X SINGLE SECTION HIGH - WOOD CONDITION



INTERIOR ELEVATION

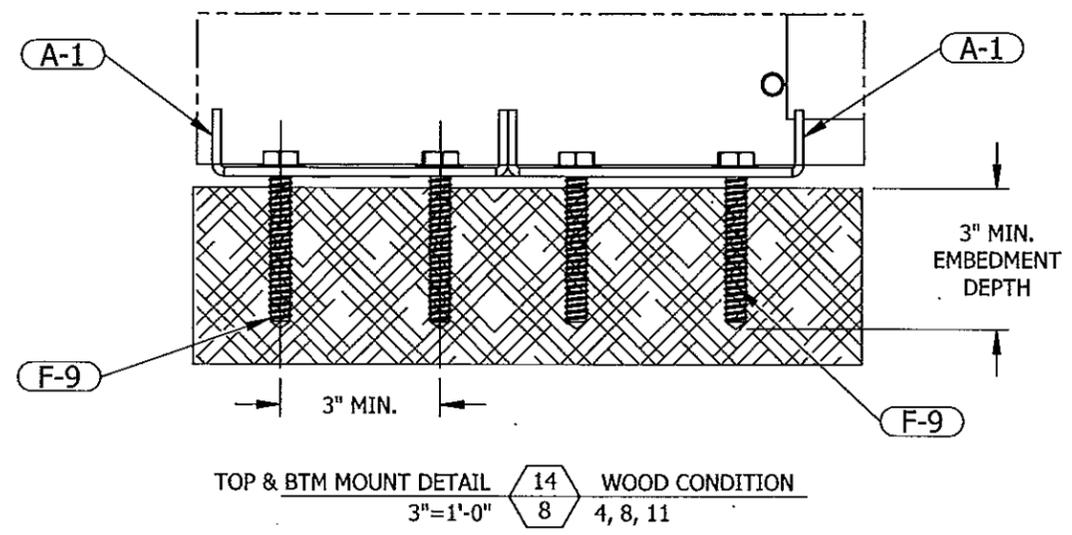
14
8

SINGLE SECTION HIGH $\frac{F}{8}$ WOOD CONDITION
3/4"=1'-0"

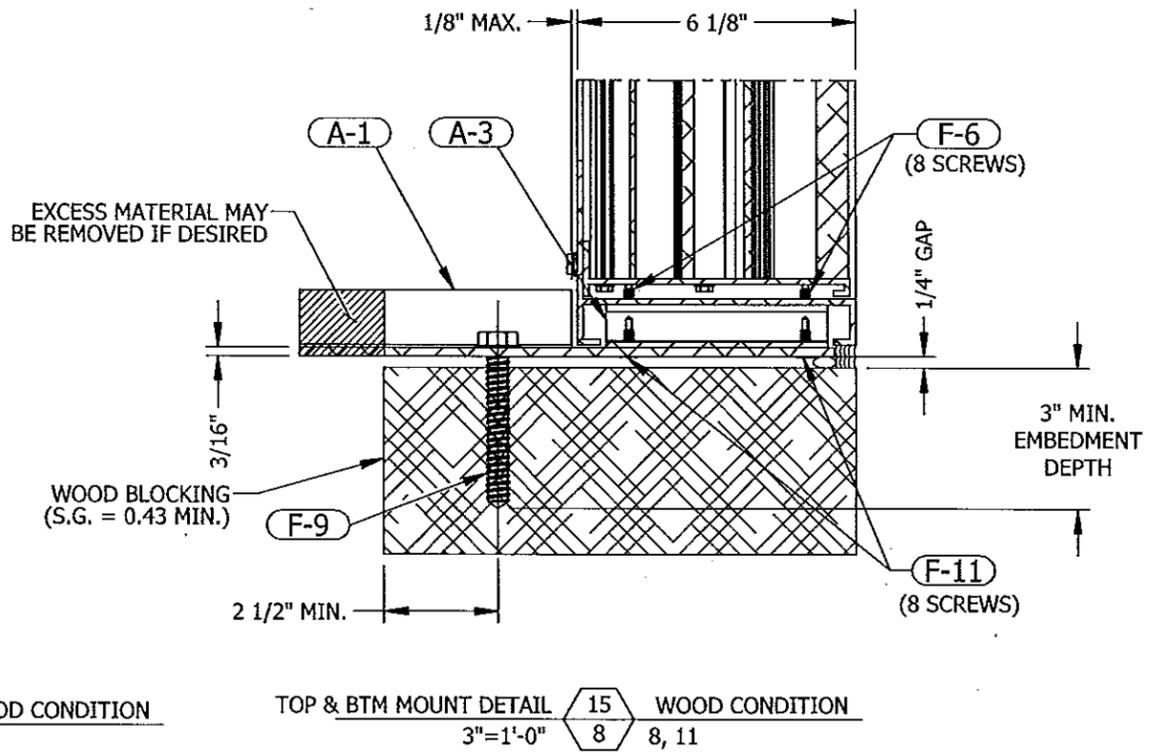


15
8

TOP & BTM MOUNT DETAIL $\frac{15}{8}$ WOOD CONDITION
3"=1'-0"



TOP & BTM MOUNT DETAIL $\frac{14}{8}$ WOOD CONDITION
3"=1'-0" 4, 8, 11



TOP & BTM MOUNT DETAIL $\frac{15}{8}$ WOOD CONDITION
3"=1'-0" 8, 11

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Approved as complying with the Florida Building Code
Date 01/22/2015
NOA# E-645-12
Miami Dade Product Control
By *[Signature]*

P.E. STAMP

WAYNE K. HELMILA
LICENSE
No. 59092
STATE OF FLORIDA
PROFESSIONAL ENGINEER

OCT 22 2014

RICE
ENGINEERING

105 School Creek Trail
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Wayne K. Helmila
Registration No: 59092

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X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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Fort Worth, Texas 76106
Phone: 817-509-2300
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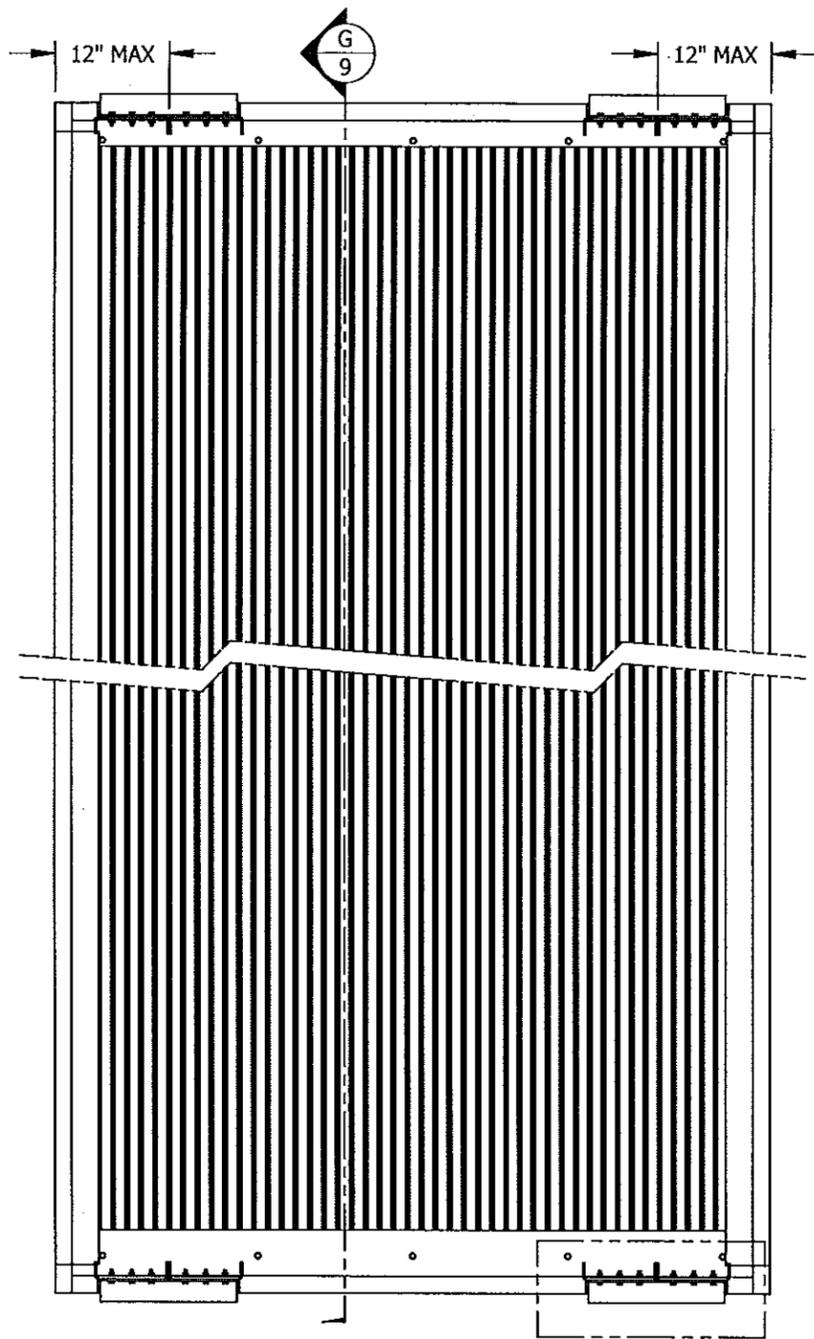
THIRD ANGLE PROJECTION

PCI INDUSTRIES DOING BUSINESS AS

ALL-LITE
ARCHITECTURAL PRODUCTS

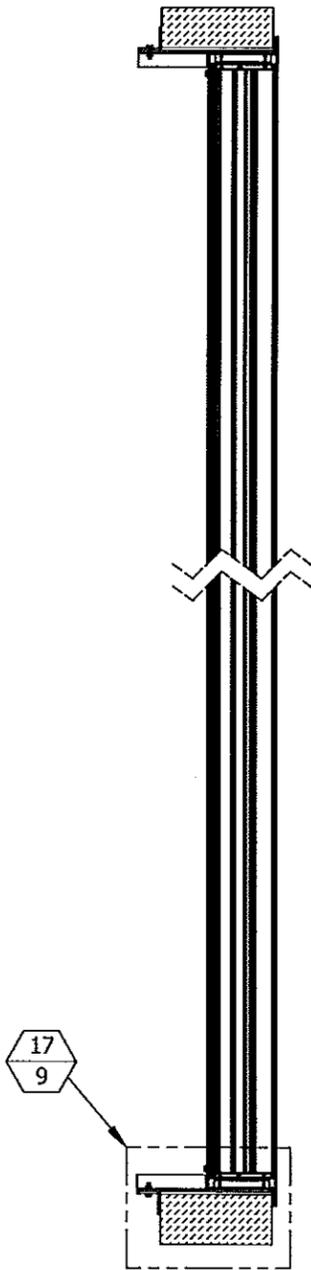
| | | | | |
|---|-------------------|---------------|-------------|----------------|
| DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - WOOD CONDITION | | | | |
| PROJECT: ECV-645-MD | | | | |
| LOCATION: | | | | |
| CUSTOMER: | | | | |
| PROJ. MGR: | | DRAWN BY: LGH | | |
| DATE: 8/27/2013 | CHK'D BY: NW | ORDER NUMBER | P.O. NUMBER | DRAWING NUMBER |
| SHEET: 8 of 15 | SCALE: 3/4"=1'-0" | | | ECV-645-MD NOA |

I:\0 ENGINEERING PROJECTS\LOUVERS\NO 50 ECV-645MD NOA Creation\Submittal Documents\REV. 5\NOA ECV-645-MD Drawing - ALL-LITE REV. 5

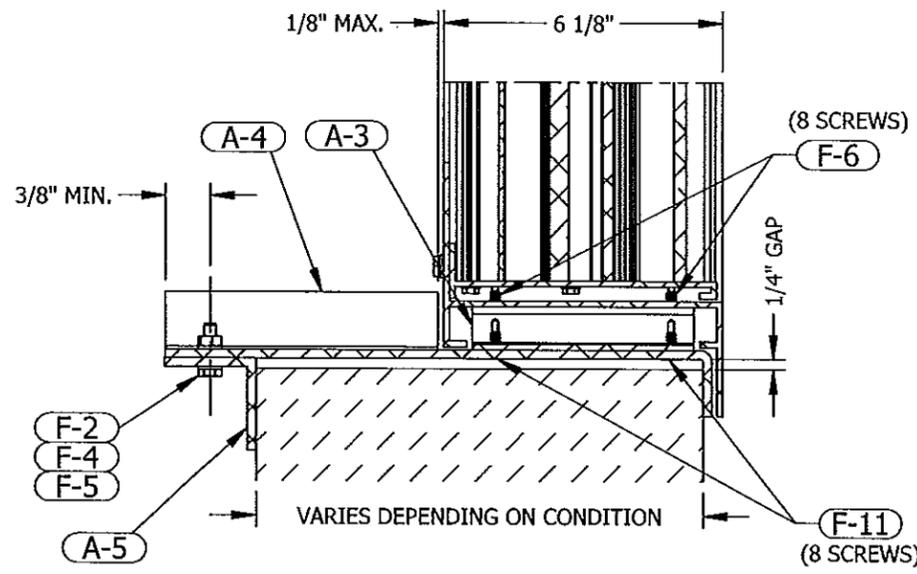
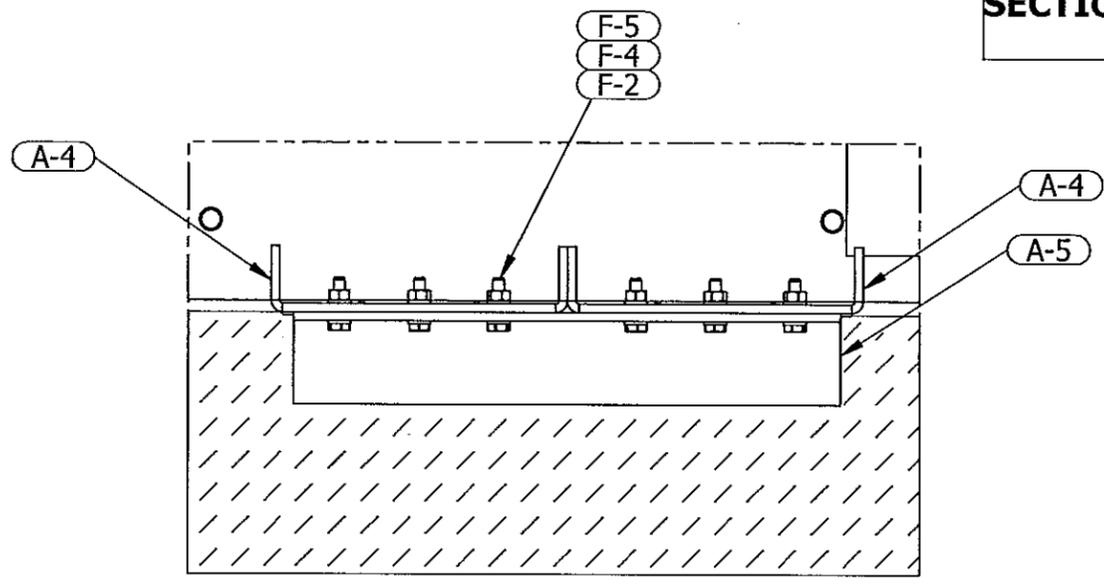


INTERIOR ELEVATION

16
9 FLANGED SINGLE SECTION HIGH **G** ALL CONDITIONS
3/4" = 1'-0" **9**



FLANGED TOP & BTM MOUNT DETAIL **16** ALL CONDITIONS
3" = 1'-0" **9** 4, 9, 12



FLANGED TOP & BTM MOUNT DETAIL **17** ALL CONDITIONS
3" = 1'-0" **9** 9, 12

SINGLE SECTION WIDE X SINGLE SECTION HIGH - FLANGED ASSEMBLY ALL CONDITIONS

Approved as complying with the Florida Building Code
Date 01/22/2012
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Miami Dade Product Control
By *[Signature]*

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Wayne K. Helmila
Registration No: 59092

WAYNE K. HELMILA
LICENSE
No. 59092
STATE OF FLORIDA
PROFESSIONAL ENGINEER
OCT 22 2014

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X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16
MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS

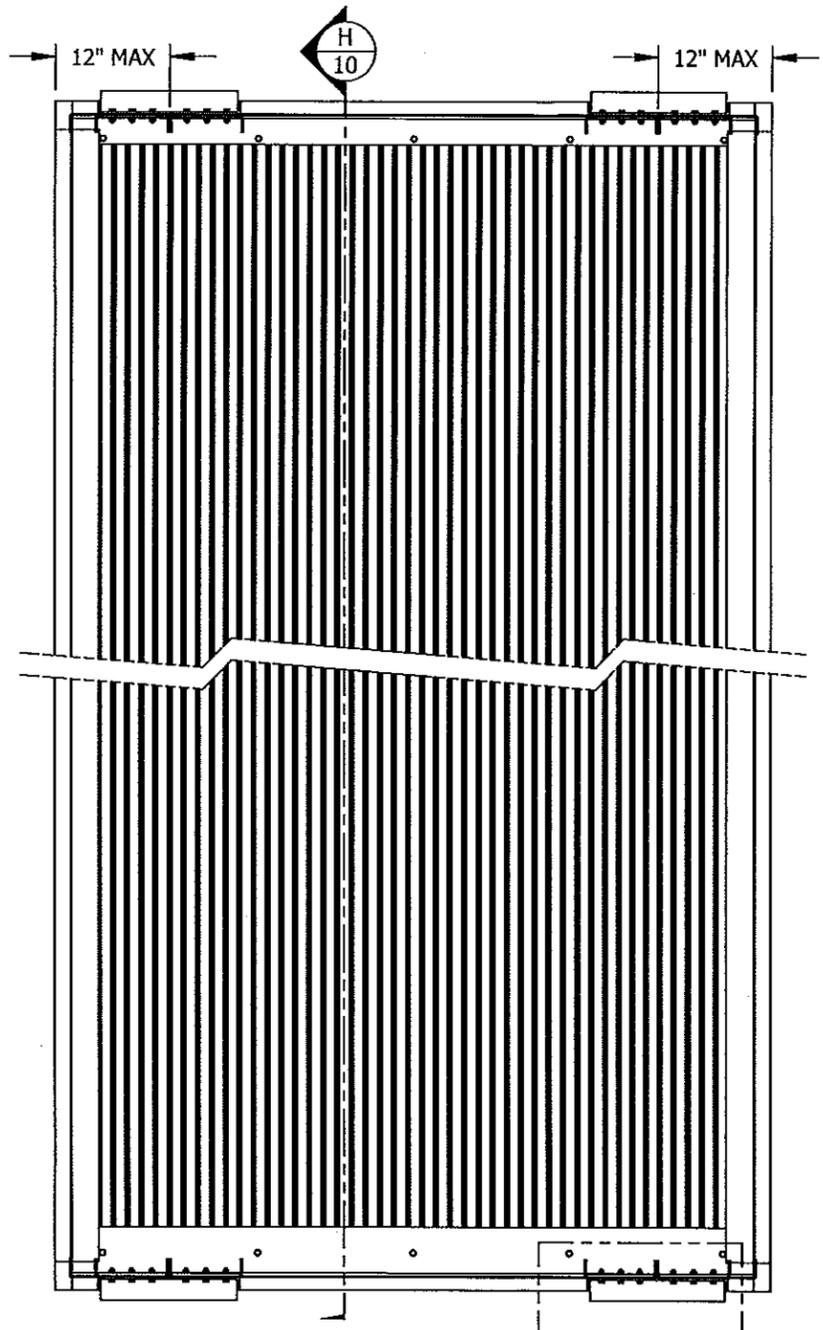
5101 Blue Mound Road
Fort Worth, Texas 76106
Phone: 817-509-2300
Fax: 817-831-3110
THIRD ANGLE PROJECTION

PCI INDUSTRIES DOING BUSINESS AS
ALL-LITE
ARCHITECTURAL PRODUCTS

| | | | | |
|---|-------------------|---------------|-------------|----------------|
| DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - FLANGED ASSY - ALL | | | | |
| PROJECT: ECV-645-MD | | | | |
| LOCATION: | | | | |
| CUSTOMER: | | | | |
| PROJ. MGR: | | DRAWN BY: LGH | | |
| DATE: 8/27/2013 | CHK'D BY: NW | ORDER NUMBER | P.O. NUMBER | DRAWING NUMBER |
| SHEET: 9 of 15 | SCALE: 3/4"=1'-0" | | | ECV-645-MD NOA |

I:\0 ENGINEERING PROJECTS\LOUVERS\NO SO ECV-645MD NOA Creation\Submittal Documents\REV. 5\NOA ECV-645-MD Drawing - ALL-LITE REV. 5\

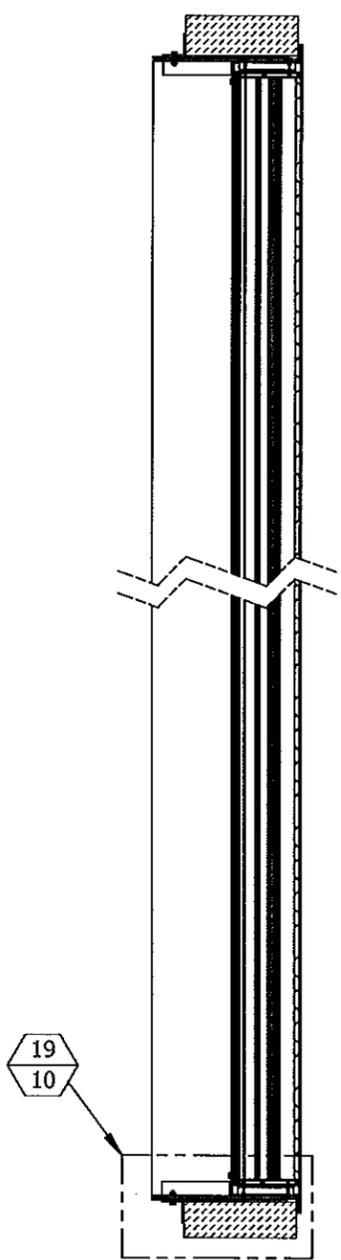
SINGLE SECTION WIDE X SINGLE SECTION HIGH - FLANGED ASSEMBLY WITH SLEEVE - ALL CONDITIONS



INTERIOR ELEVATION

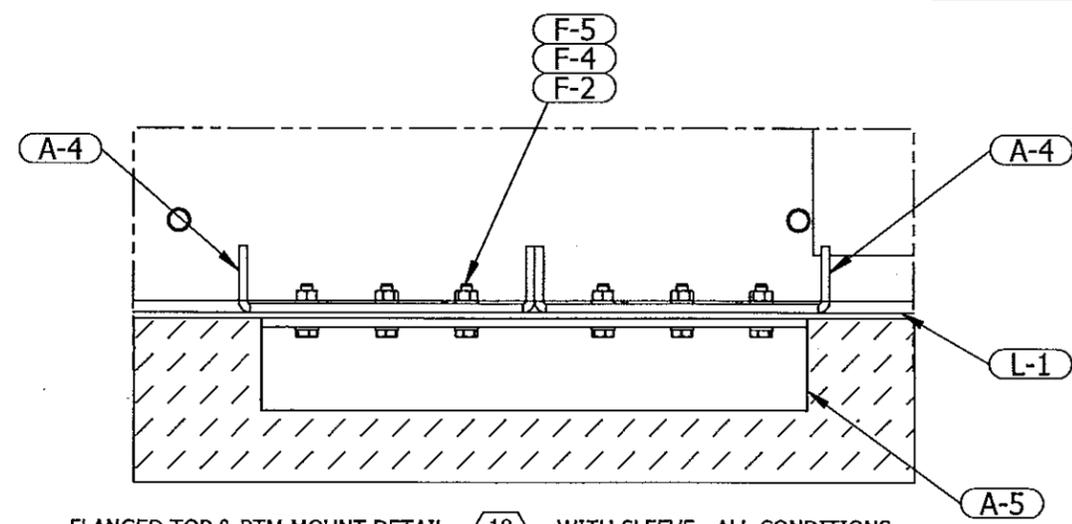
18
10

FLANGED SINGLE SECTION HIGH $\frac{H}{10}$ ALL CONDITIONS
3/4" = 1'-0" 10

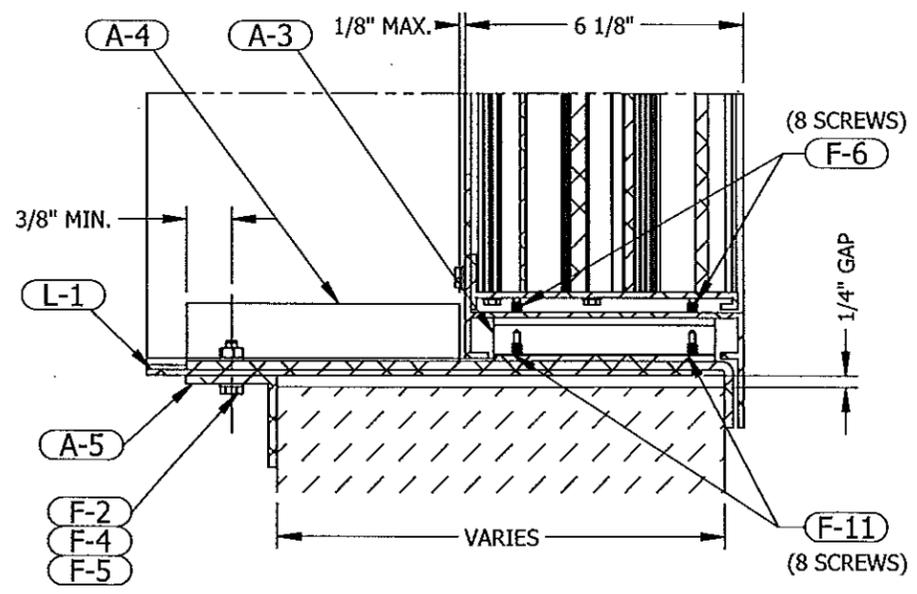


19
10

FLANGED TOP & BTM MOUNT DETAIL $\frac{19}{10}$ WITH SLEEVE - ALL CONDITIONS
3"=1'-0" 10, 12



FLANGED TOP & BTM MOUNT DETAIL $\frac{18}{10}$ WITH SLEEVE - ALL CONDITIONS
3"=1'-0" 4, 10, 12



NOTE: THE ELEVATION VIEW INCLUDED ON THIS PAGE SHOWS THE ATTACHMENT LOCATIONS FOR A LOUVER SECTION BETWEEN 37" AND 60" WIDE. REFER TO SHEET 4 FOR ATTACHMENT LOCATIONS ON LOUVER SECTIONS LESS THAN 37" WIDE.

Approved as complying with the
Florida Building Code
Date 01/22/2015
NOA# 14-0605.12
Miami Dade Product Control
By *[Signature]*

P.E. STAMP

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ENGINEERING

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Luxemburg, WI 54217
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Florida Firm No: F-0100005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

WAYNE K. HELMILA
LICENSED PROFESSIONAL ENGINEER
STATE OF FLORIDA
No. 59092
OCT 22 2014

| REV. | DESCRIPTION | DATE | DRAWN BY |
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| 5 | CHANGED LOUVER MATERIAL TO 6063-T6 | 10/10/2014 | NW |
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TOLERANCE UNLESS NOTED:
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 X.XXX ±0.010
 ANGLE ±1°
 FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION

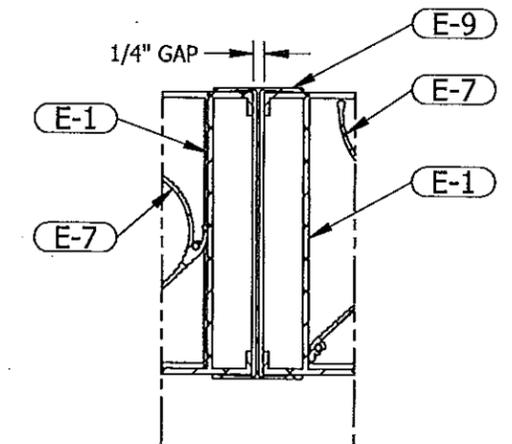
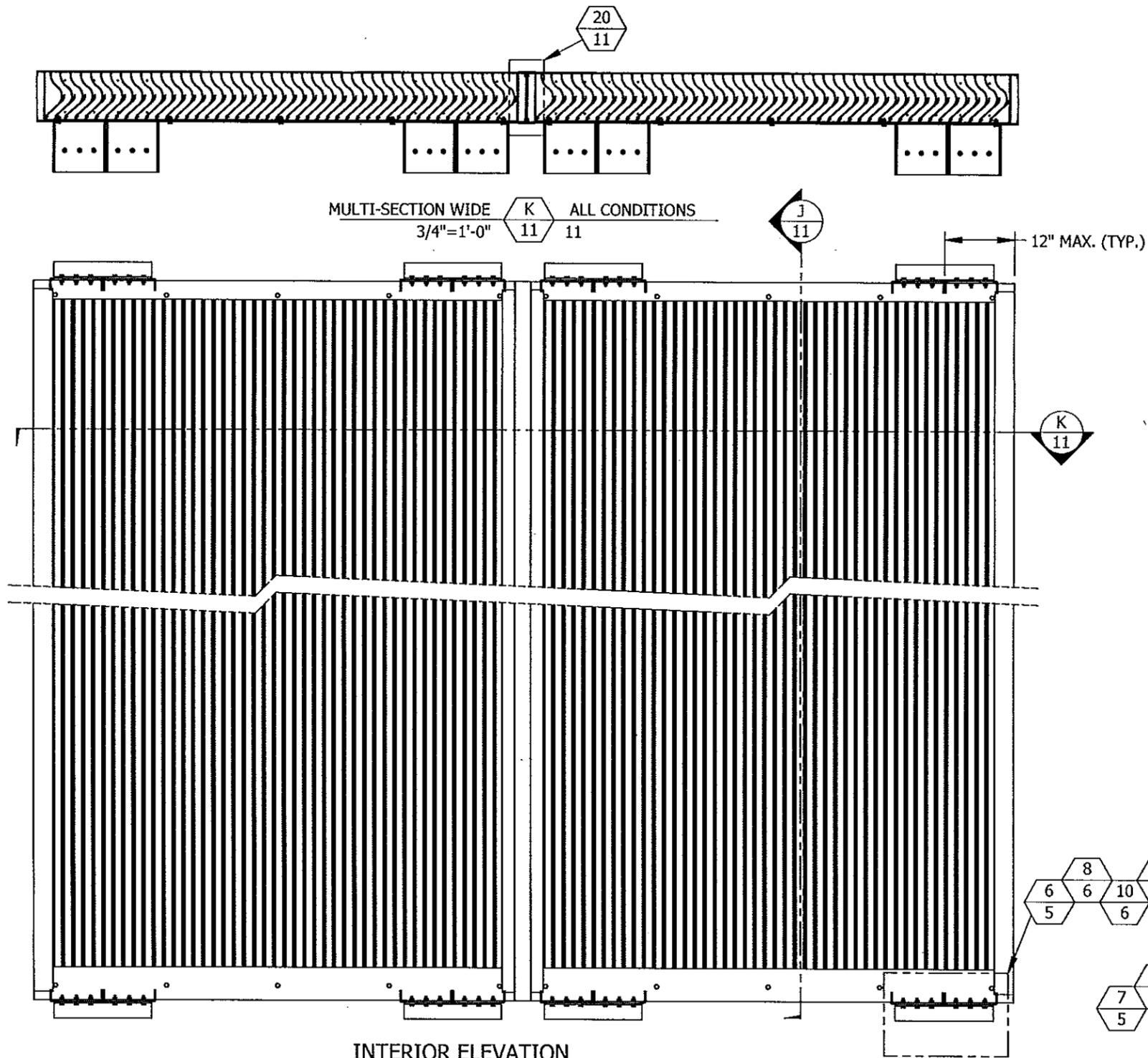
PCI INDUSTRIES DOING BUSINESS AS

ALL-LITE
ARCHITECTURAL PRODUCTS

| | | | | |
|---|-------------------|---------------|-------------|----------------|
| DRAWING DESCR: SINGLE SECT WIDE X SINGLE SECT HIGH - FLANGED SLEEVED ASSY - ALL | | | | |
| PROJECT: ECV-645-MD | | | | |
| LOCATION: | | | | |
| CUSTOMER: | | | | |
| PROJ. MGR: | | DRAWN BY: LGH | | |
| DATE: 8/27/2013 | CHK'D BY: NW | ORDER NUMBER | P.O. NUMBER | DRAWING NUMBER |
| SHEET: 10 of 15 | SCALE: 3/4"=1'-0" | | | ECV-645-MD NOA |

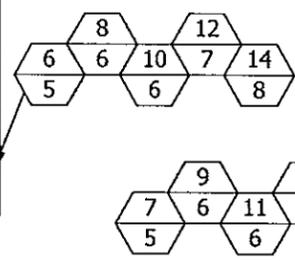
I:\0 ENGINEERING PROJECTS\LOUVERS\NO 50 ECV-645MD NOA Creation\Submittal Documents\REV. 5\NOA ECV-645-MD Drawing - ALL-LITE REV. 5\

MULTI-SECTION WIDE X SINGLE SECTION HIGH - ALL CONDITIONS



MULTI-SECTION WIDE $\frac{20}{11}$ MULLION INSTALLATION
 $\frac{3''=1'-0''}{11}$
 QUANTITY SECTIONS WIDE IS UNLIMITED

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 Florida Building Code
 Date 01/22/2015
 NOA# B-7015-12
 Miami Dade Product Control
 By [Signature]



INTERIOR ELEVATION
 QUANTITY SECTIONS WIDE IS UNLIMITED

MULTI-SECTION WIDE $\frac{J}{11}$ ALL CONDITIONS
 $\frac{3''=1'-0''}{11}$

NOTE: THE ELEVATION VIEW INCLUDED ON THIS PAGE SHOWS THE ATTACHMENT LOCATIONS ON LOUVER SECTIONS BETWEEN 37" AND 60" WIDE. REFER TO SHEET 4 FOR ATTACHMENT LOCATIONS ON LOUVER SECTIONS LESS THAN 37" WIDE.

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 LICENSE No. 10092
 STATE OF FLORIDA
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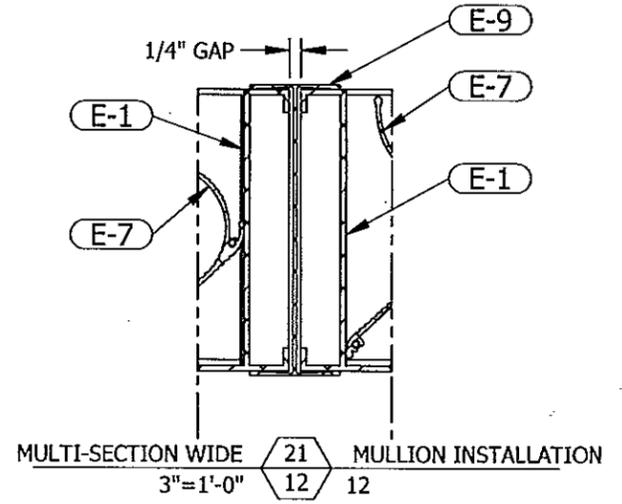
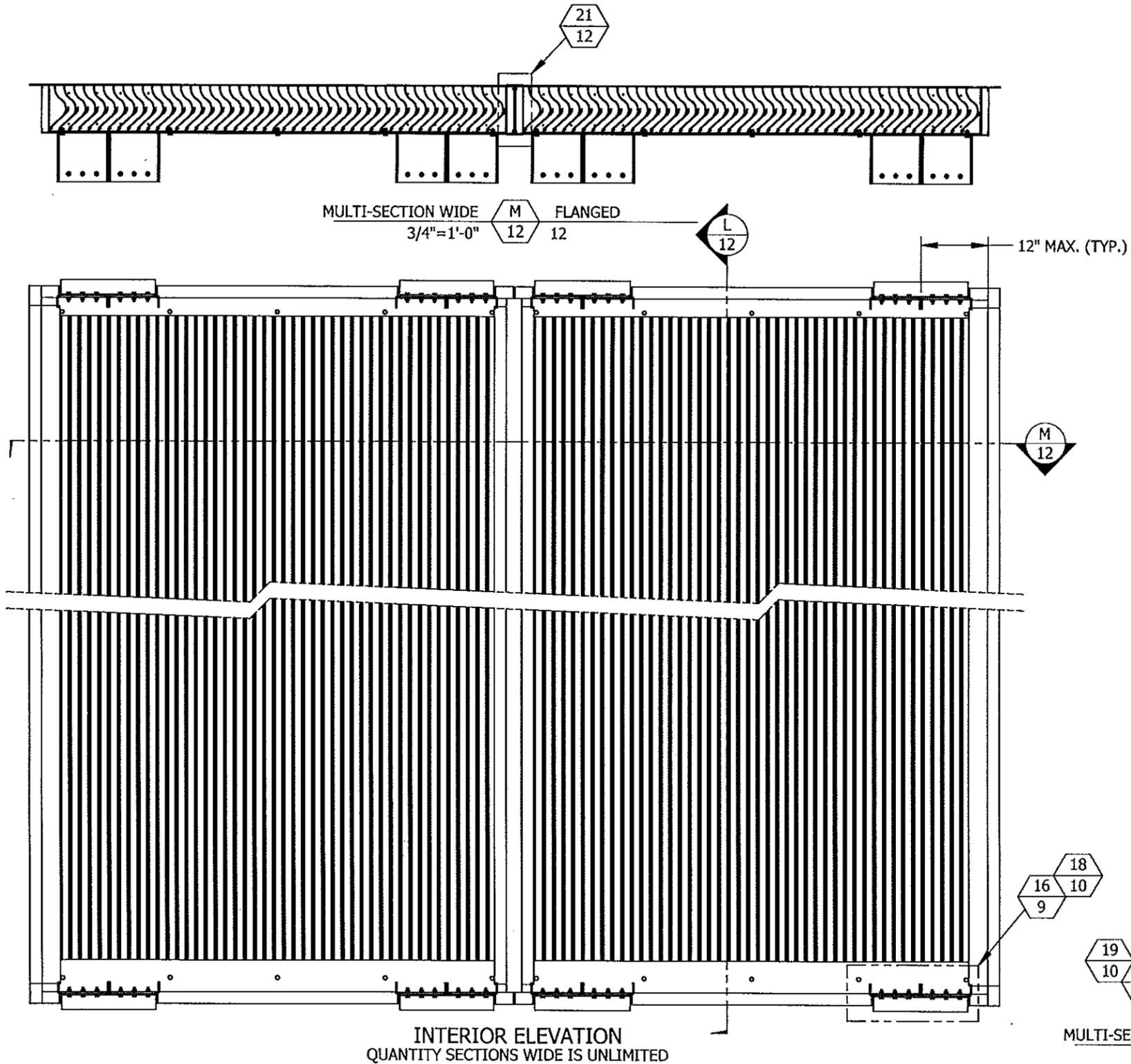
THIRD ANGLE PROJECTION

PCI INDUSTRIES DOING BUSINESS AS
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 ARCHITECTURAL PRODUCTS

| | | | |
|--|-------------------|----------------------------------|-------------|
| DRAWING DESCR: MULTI-SECTION WIDE X SINGLE SECTION HIGH - ALL CONDITIONS | | | |
| PROJECT: ECV-645-MD | | | |
| LOCATION: | | | |
| CUSTOMER: | | | |
| PROJ. MGR: | | DRAWN BY: LGH | |
| DATE: 8/27/2013 | CHK'D BY: NW | ORDER NUMBER | P.O. NUMBER |
| SHEET: 11 of 15 | SCALE: 3/4"=1'-0" | DRAWING NUMBER ECV-645-MD NOA | |

I:\0 ENGINEERING PROJECTS\LOUVERS\NO 50 ECV-645MD NOA Creation\Submittal Documents\REV. 5\NOA ECV-645-MD Drawing - ALL-LITE REV. 5\

MULTI-SECTION WIDE X SINGLE SECTION HIGH - FLANGED - ALL CONDITIONS



QUANTITY SECTIONS WIDE IS UNLIMITED

INTERIOR ELEVATION
QUANTITY SECTIONS WIDE IS UNLIMITED

MULTI-SECTION WIDE L FLANGED
3/4"=1'-0" 12 12

Approved as complying with the Florida Building Code
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NOA# 15-060512
Miami Dade Product Control
By *[Signature]*

P.E. STAMP

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Wayne K. Helmla
Professional Engineer
No. 59092
STATE OF FLORIDA
OCT 22 2014

Florida Firm No: F-01000005061
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Wayne K. Helmla
Registration No: 59092

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THIRD ANGLE PROJECTION

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| | | | | |
|--|-------------------|---------------|-------------|----------------|
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| PROJECT: ECV-645-MD | | | | |
| LOCATION: | | | | |
| CUSTOMER: | | | | |
| PROJ. MGR: | | DRAWN BY: LGH | | |
| DATE: 8/27/2013 | CHK'D BY: NW | ORDER NUMBER | P.O. NUMBER | DRAWING NUMBER |
| SHEET: 12 of 15 | SCALE: 3/4"=1'-0" | | | ECV-645-MD NOA |

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| 5 | CHANGED LOUVER MATERIAL TO 6063-T6 | 10/10/2014 | NW |
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| 3 | REVISED PER RICE MARKUPS | 4/23/2014 | JG |
| 2 | REVISED INSTALLATION DETAILS | 1/27/2014 | JG |
| 1 | INITIAL RELEASE | 8/26/2013 | LGH |

I:\0 ENGINEERING PROJECTS\LOUVERS\NO 50 ECV-645MD NOA Creation\Submittal Documents\REV. 5\NOA ECV-645-MD Drawing - ALL-LITE REV. 5

PART NO: E-1
 PART NAME: LOUVER JAMB, EXTERIOR
 MATERIAL: MINIMUM 0.081" THICK 6063-T6 EXTRUDED ALUMINUM
 SCALE: 6"=1'-0"

PART NO: E-2
 PART NAME: LOUVER JAMB, EXTERIOR, FLANGED
 MATERIAL: MINIMUM 0.081" THICK 6063-T6 EXTRUDED ALUMINUM
 SCALE: 6"=1'-0"

PART NO: E-3
 PART NAME: LOUVER HEAD, EXTERIOR
 MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM
 SCALE: 6"=1'-0"

PART NO: E-4
 PART NAME: LOUVER HEAD, EXTERIOR, FLANGED
 MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM
 SCALE: 6"=1'-0"

PART NO: E-5
 PART NAME: LOUVER SILL, EXTERIOR
 MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM
 SCALE: 6"=1'-0"

PART NO: E-6
 PART NAME: LOUVER SILL, EXTERIOR, FLANGED
 MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM
 SCALE: 6"=1'-0"

Approved as complying with the Florida Building Code
 Date 01/22/2015
 NOA# 14-1609-12
 Miami Dade Product Control
 By *[Signature]*

PART NO: E-7
 PART NAME: BLADE
 MATERIAL: 0.081" THICK 6063-T6 EXTRUDED ALUMINUM
 SCALE: 6"=1'-0"

BILL OF MATERIALS

PART NO: E-8
 PART NAME: LOUVER HEAD / SILL, INTERIOR
 MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM
 SCALE: 6"=1'-0"

PART NO: E-9
 PART NAME: MULLION
 MATERIAL: 0.081" THICK 6063-T6 EXTRUDED ALUMINUM
 SCALE: 6"=1'-0"

P.E. STAMP

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 105 School Creek Trail
 Luxemburg, WI 54217
 Phone: 920-845-1042
 Fax: 920-845-1048
 www.rice-inc.com

Florida Firm No: F-01000005061
 Certificate of Authorization: #9090
 Wayne K. Helmila
 Registration No: 59092

| REV. | DESCRIPTION | DATE | DRAWN BY |
|------|------------------------------------|------------|----------|
| 5 | CHANGED LOUVER MATERIAL TO 6063-T6 | 10/10/2014 | NW |
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UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:
 X.X ±0.030
 X.XX ±0.015
 X.XXX ±0.010
 ANGLE ±1°
 FRACTION ±1/16

MAX HOLE BREAKOUT:
 15% OF MATERIAL THICKNESS

5101 Blue Mound Road
 Fort Worth, Texas 76106
 Phone: 817-509-2300
 Fax: 817-831-3110

THIRD ANGLE PROJECTION

PCI INDUSTRIES DOING BUSINESS AS

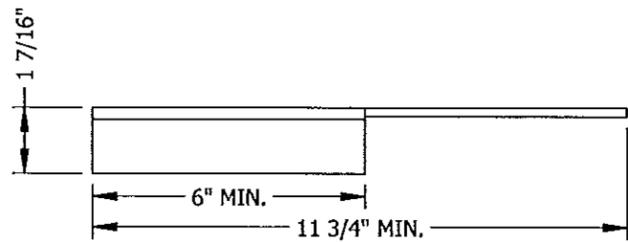
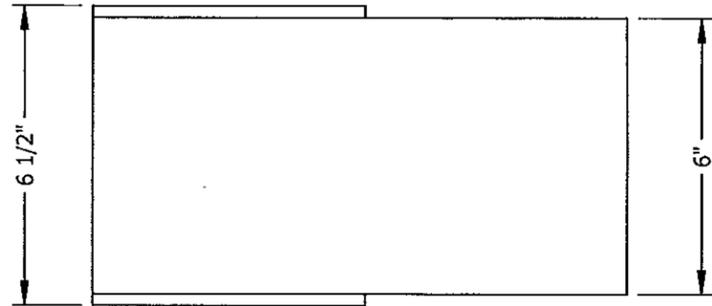
ALL-LITE

ARCHITECTURAL PRODUCTS

| | | | |
|----------------------------------|--------------|-----------------|----------------|
| DRAWING DESCR: BILL OF MATERIALS | | | |
| PROJECT: ECV-645-MD | | | |
| LOCATION: | | | |
| CUSTOMER: | | | |
| PROJ. MGR: | | DRAWN BY: LGH | |
| DATE: 8/27/2013 | CHK'D BY: NW | ORDER NUMBER | P.O. NUMBER |
| SHEET: 13 of 15 | | SCALE: AS NOTED | DRAWING NUMBER |
| | | | ECV-645-MD NOA |

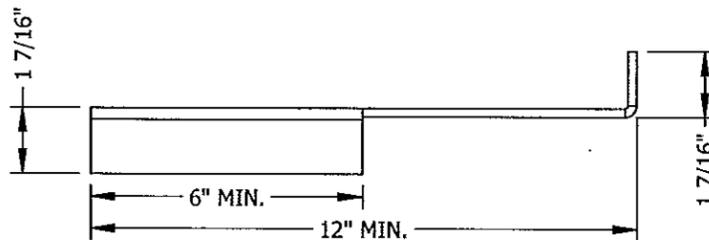
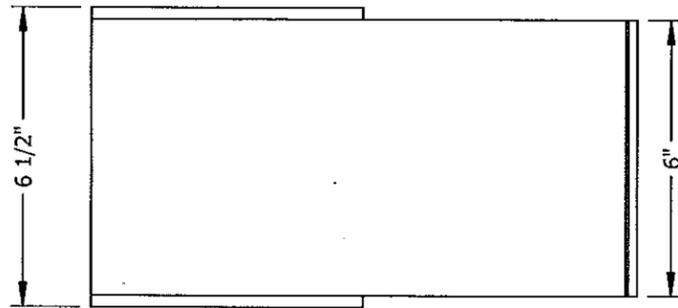
BILL OF MATERIALS

PART NO: A-1
 PART NAME: FORMED CLIP, WITHOUT FRONT FLANGE
 MATERIAL: 3/16" THICK
 5052-H32 FORMED ALUMINUM
 SCALE: 3"=1'-0"

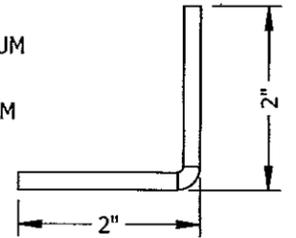


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 Florida Building Code
 Date 01/22/2015
 NOA# 14-0605-12
 Miami Dade Product Control
 By *[Signature]*

PART NO: A-4
 PART NAME: FORMED CLIP WITH FRONT FLANGE
 MATERIAL: 3/16" THICK
 5052-H32 FORMED ALUMINUM
 SCALE: 3"=1'-0"



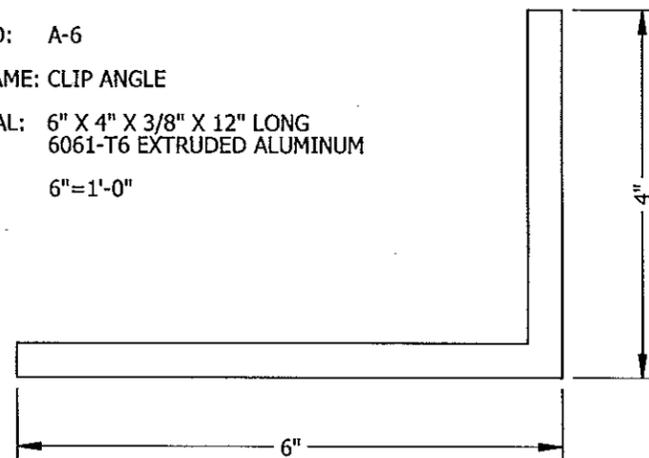
PART NO: A-5
 PART NAME: RETAINING ANGLE
 MATERIAL: 1/4" THICK X 12" LONG
 6063-T5 EXTRUDED ALUMINUM
 OR
 3/16" THICK X 12" LONG
 5052-H32 FORMED ALUMINUM
 SCALE: 6"=1'-0"



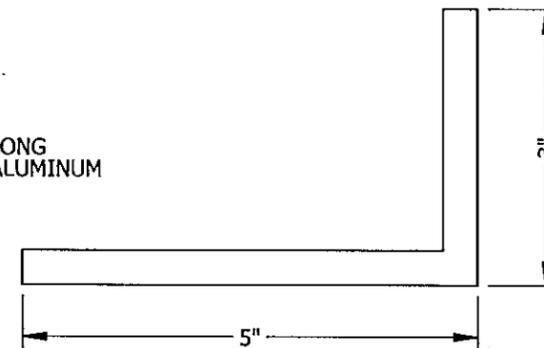
PART NO: L-1
 PART NAME: SLEEVE
 MATERIAL: MIN. 20 GA. THICK
 5052-H32 SHEET ALUMINUM
 OR
 MIN. 20 GA. THICK GALVANIZED,
 304 STAINLESS, OR 316 STAINLESS
 STEEL SHEET
 SCALE: 6"=1'-0"



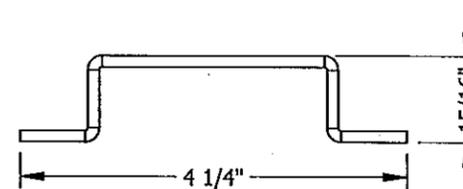
PART NO: A-6
 PART NAME: CLIP ANGLE
 MATERIAL: 6" X 4" X 3/8" X 12" LONG
 6061-T6 EXTRUDED ALUMINUM
 SCALE: 6"=1'-0"



PART NO: A-2
 PART NAME: CLIP ANGLE
 MATERIAL: 5" X 3" X 3/8" X 12" LONG
 6061-T6 EXTRUDED ALUMINUM
 SCALE: 6"=1'-0"



PART NO: A-3
 PART NAME: HAT CHANNEL
 MATERIAL: 1/8" THICK X 5 1/4" LONG
 5052-H32 FORMED ALUMINUM
 SCALE: 6"=1'-0"



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Florida Firm No: F-01000005061
 Certificate of Authorization: #9090
 Wayne K. Helmila
 Registration No: 59092

WAYNE K. HELMILA
 LICENSE
 No. 13092
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER
 OCT 22 2014

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| REV. | DESCRIPTION | DATE | DRAWN BY |
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TOLERANCE UNLESS NOTED:
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 X.XX ±0.015
 X.XXX ±0.010
 ANGLE ±1°
 FRACTION ±1/16

MAX HOLE BREAKOUT:
 15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION

PCI INDUSTRIES DOING BUSINESS AS
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 ARCHITECTURAL PRODUCTS

| | | | |
|----------------------------------|-----------------|---------------|----------------|
| DRAWING DESCR: BILL OF MATERIALS | | | |
| PROJECT: ECV-645-MD | | | |
| LOCATION: | | | |
| CUSTOMER: | | | |
| PROJ. MGR: | CHK'D BY: NW | DRAWN BY: LGH | |
| DATE: 8/27/2013 | SCALE: AS NOTED | ORDER NUMBER | P.O. NUMBER |
| SHEET: 14 of 15 | | | DRAWING NUMBER |
| | | | ECV-645-MD NOA |

BILL OF MATERIALS

| MISCELLANEOUS FASTENERS | |
|-------------------------|--|
| PART NO | DESCRIPTION |
| F-1 | #10-24 X 3/4" LONG, 6 LOBE DRIVE, 410 S.S., HWH, "F" POINT THREAD CUTTING MACHINE SCREW, BRIGHT HARDENED, PASSIVATED & WAXED, NO SERRATIONS UNDER HEAD, MADE IN U.S.A. |
| F-2 | WASHER, FLAT, 1/4" I.D. X 5/8" O.D., 18-8 S.S. |
| F-3 | BOLT, HEX HEAD, 1/4-20 UNC X 3/4" LONG, 18-8 S.S. |
| F-4 | NUT, HEX, 1/4-20 UNC, 18-8 S.S. |
| F-5 | BOLT, HEX HEAD, 1/4-20 UNC X 1" LONG, 304 S.S. |
| F-6 | #12-14 X 3/4" LONG, HWH, 410 S.S. SELF-DRILLING TEK MACHINE SCREW |
| F-7 | #12-14 X 1" LONG, HWH, SELF-DRILLING TEK MACHINE SCREW |
| F-8 | 5/8" x 5-1/2" HILTI KWIK BOLT III EXPANSION ANCHOR |
| F-9 | 1/2" X 3-1/2" LAG BOLT W/FLAT WASHER, 3" MINIMUM EMBEDMENT |
| F-10 | 1/2" x 5-1/2" HILTI KWIK BOLT TZ EXPANSION ANCHOR |
| F-11 | #12-14 X 3/4" LONG FLAT HEAD, 410 S.S. SELF-DRILLING TEK MACHINE SCREW |

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Wayne K. Helmila
 LICENSE No. 59092
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 OCT 22 2014

Florida Firm No: F-01000005061
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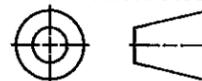
Approved as complying with the Florida Building Code
 Date 01/22/2015
 NOA# 14-3608-12
 Miami Dade Product Control
 By [Signature]

NOTE: ALL INSTALLATION FASTENERS AND ANCHORS SHOULD BE OF CORROSION-RESISTANT STEEL (STAINLESS, HOT-DIP GALVANIZED, OR ZINC-PLATED)

UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.
 TOLERANCE UNLESS NOTED:
 X.X ±0.030
 X.XX ±0.015
 X.XXX ±0.010
 ANGLE ±1°
 FRACTION ±1/16
 MAX HOLE BREAKOUT:
 15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION



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| LOCATION: | | | |
| CUSTOMER: | | | |
| PROJ. MGR: | | DRAWN BY: LGH | |
| DATE: 8/27/2013 | CHK'D BY: NW | ORDER NUMBER | P.O. NUMBER |
| SHEET: 15 of 15 | | SCALE: AS NOTED | DRAWING NUMBER |
| | | | ECV-645-MD NOA |