



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) 372-6339

[www.miamidade.gov/buildingcode](http://www.miamidade.gov/buildingcode)

## NOTICE OF ACCEPTANCE (NOA)

The Airolite Company, LLC.  
27855 State Route 7  
Marietta, OH 45750

### 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 Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: SCH601MD Louver with and without VCD-40 Damper

**APPROVAL DOCUMENT:** Drawing No. SCH601MD, titled "SCH601MD Louver Flanged Frame", sheets 1 through 13 of 13, dated 03/14/07, prepared by Rice Engineering, signed and sealed by L. David Rice, P.E. on 01/24/08, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

### 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 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 revises NOA # 07-0925.03 and 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.**



*Signature*  
3/17/08

NOA No 08-0229.05  
Expiration Date: November 1, 2012  
Approval Date: April 10, 2008  
Page 1

**The Airolite Company, LLC**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **SCH601MD**, titled "SCH601MD Louver Flanged Frame", sheets 1 through 13 of 13, dated 03/14/07, with no revision, prepared by Rice Engineering, signed and sealed by L. David Rice, P.E., on 01/24/08.

**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 marked-up drawings and installation diagram of Series/Model EHH-601D, fixed aluminum louvers, prepared by Architectural Testing, Inc., Test Report No. **74301.01-602-18**, dated 09/04/07, signed and sealed by Joseph A. Reed, P.E.
2. Test report on Standard Test Methods for Tensile Testing of Metallic Materials, per ASTM E8-03, prepared by Architectural Testing, Inc., Test Report No. **74301.02-602-18**, dated 09/12/07, signed and sealed by Joseph A. Reed, P.E.  
**"Evidence Submitted under NOA # 07-0925.02"**
3. Test report on Modified Wind Driven Rain Resistance TAS 110(A)-95 (Louvers Checklist # 0240), prepared by Architectural Testing, Inc., Test Report No. **79201.01-109-18**, dated 02/05/08, signed and sealed by Michael D. Stremmel, P.E.

**C. CALCULATIONS**

1. Structural calculations, prepared by Rice Engineering, dated 08/13/07, signed and sealed by L. David Rice, P.E.  
**"Evidence Submitted under NOA # 07-0925.02"**

**D. QUALITY ASSURANCE**

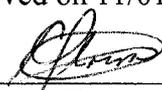
1. Miami Dade Building Code Compliance Office (BCCO).

**E. STATEMENTS**

1. Statement letter of conformance issued by Rice Engineering, dated 01/24/08, signed and sealed by L. David Rice, P.E.
2. Statement letter of no financial interest issued by Rice Engineering, dated 01/24/08, signed and sealed by L. David Rice, P.E.
3. Statement letter of conformance issued by Architectural Testing, Inc., dated 02/08/08, signed and sealed by Michael D. Stremmel, P.E.  
**"Evidence Submitted under NOA # 08-0229.06"**

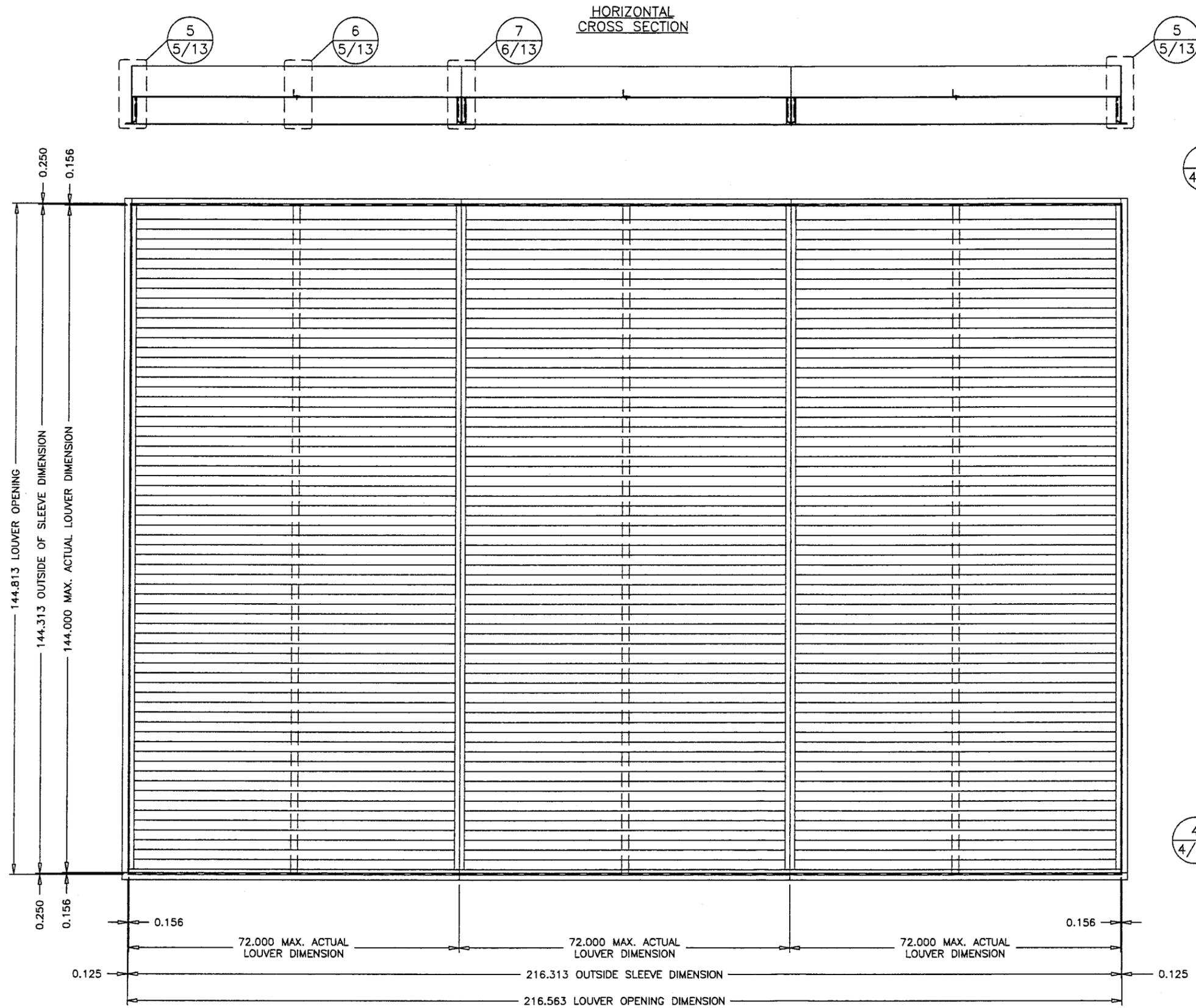
**F. OTHER**

1. Notice of Acceptance # **07-0925.03**, issued to Greenheck Fan Corporation for their EHH-601D Louver with and without VCD-40 Damper, approved on 11/01/07 and expiring on 11/01/12.

 3/17/08

Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No 08-0229.05

Expiration Date: November 1, 2012  
Approval Date: April 10, 2008



HORIZONTAL  
CROSS SECTION

VERTICAL  
CROSS SECTION



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715-359-6171

**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  
L. David Rice  
Registration No: 50923

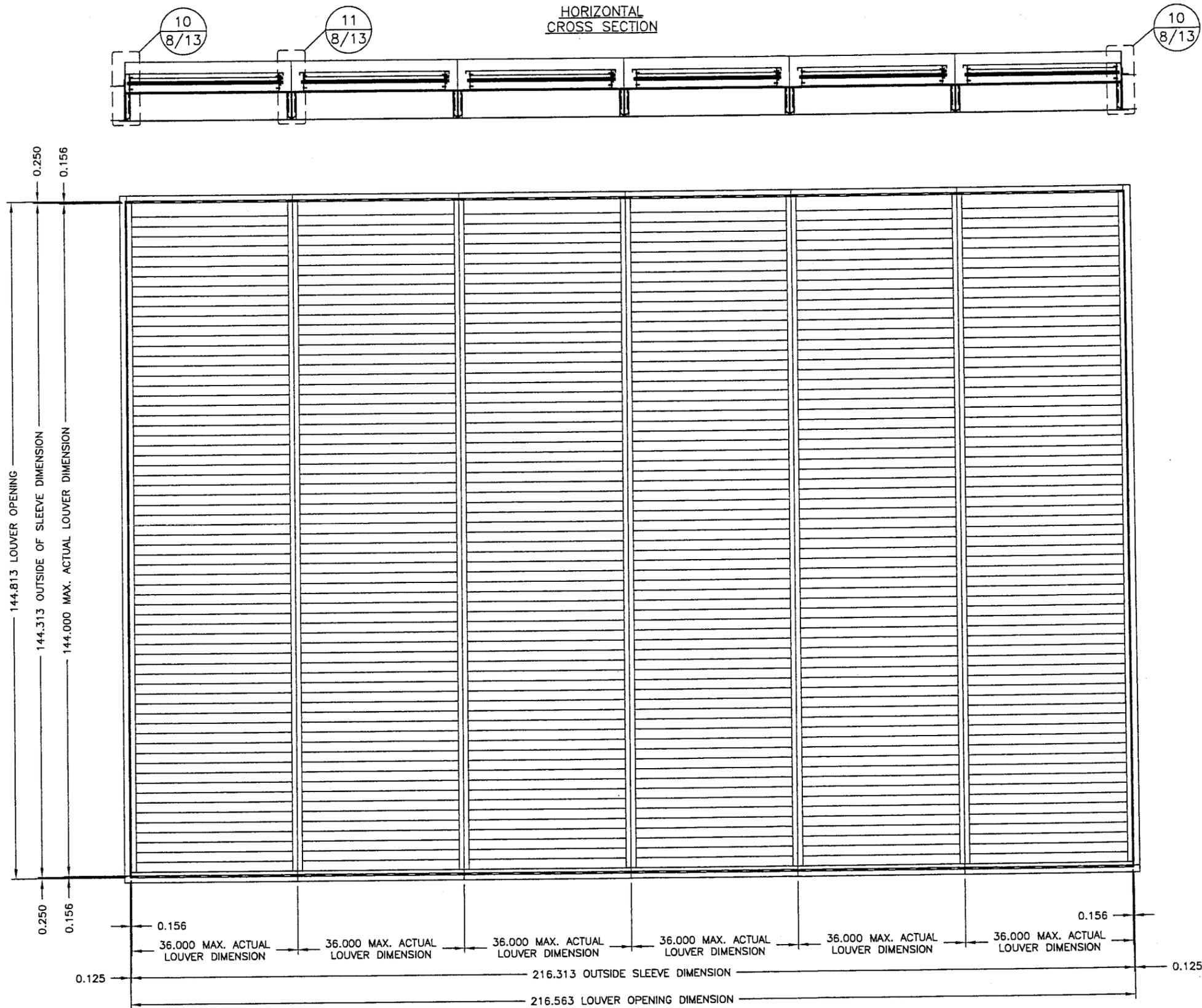
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No 08-0229-05  
Expiration Date 11/1/2012  
By [Signature]  
Miami Dade Product Control  
Division

*[Signature]*

L. DAVID RICE

|                 |                |
|-----------------|----------------|
| DATE            | 3/14/2007      |
| DRAWN BY        | MARTENS        |
| SCALE           | 1/2" = 1' - 0" |
| SHEET NO.       | 1 OF 13        |
| CAD DRAWING NO. | SCH601MD       |

TITLE  
SCH601MD LOUVER  
FLANGED FRAME  
ELEVATION



DRAWN BY: MARTENS  
 DATE: 3/14/2007  
 SCALE: 1/2" = 1'-0"  
 SHEET NO.: 2 OF 13  
 CAD DRAWING NO.: SCH601MD

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 715-359-6171

TITLE: SCH601MD LOUVER  
 FLANGED FRAME  
 W/ VCD-40  
 ELEVATION

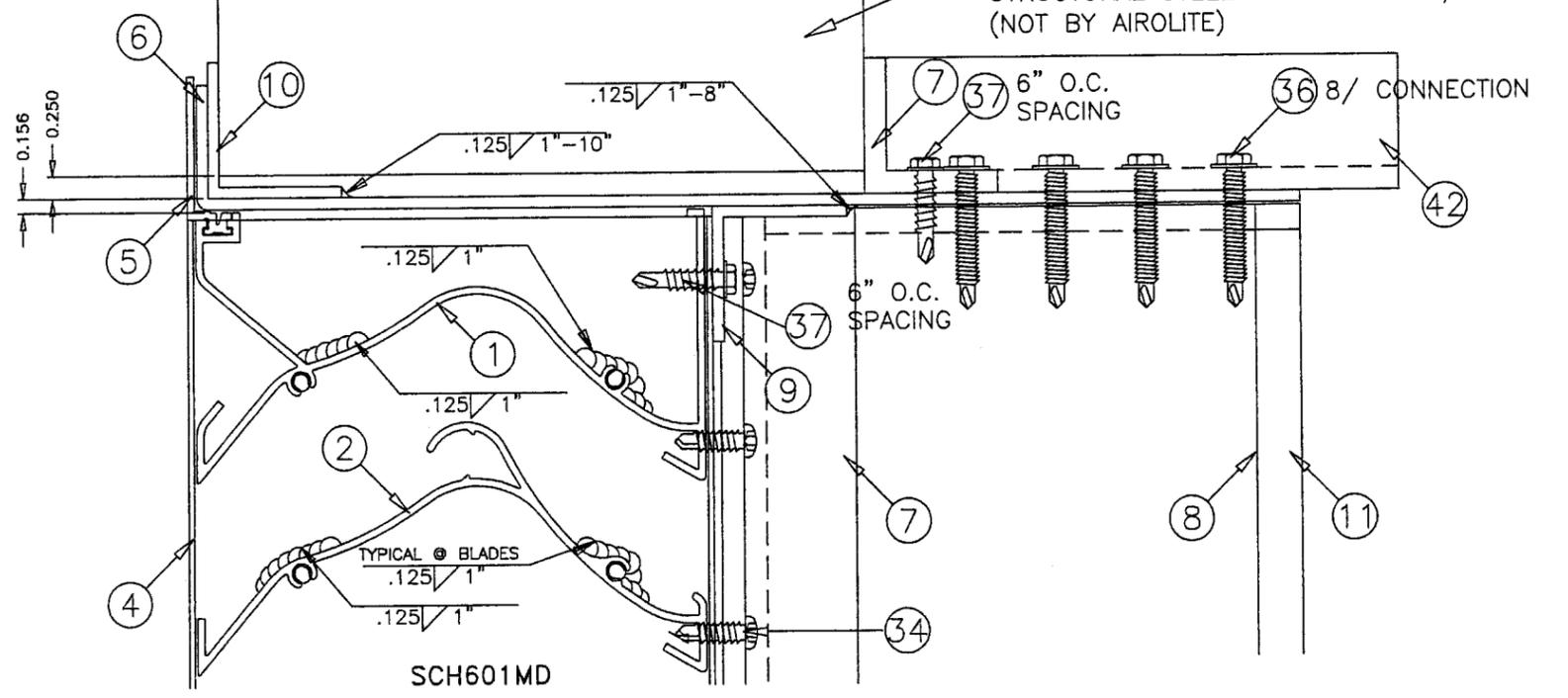
**RICE ENGINEERING**  
 105 School Creek Trail  
 Luxemburg, WI 54217  
 Phone: 920.845.1042  
 Fax: 920.845.1048  
 www.rice-inc.com

Florida Firm No: F-01000005061  
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 L. David Rice  
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 as complying with the Florida  
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 Acceptance No 08-0229.05  
 Expiration Date 11/1/2012  
 By: [Signature]  
 Miami Dade Product Control  
 Division

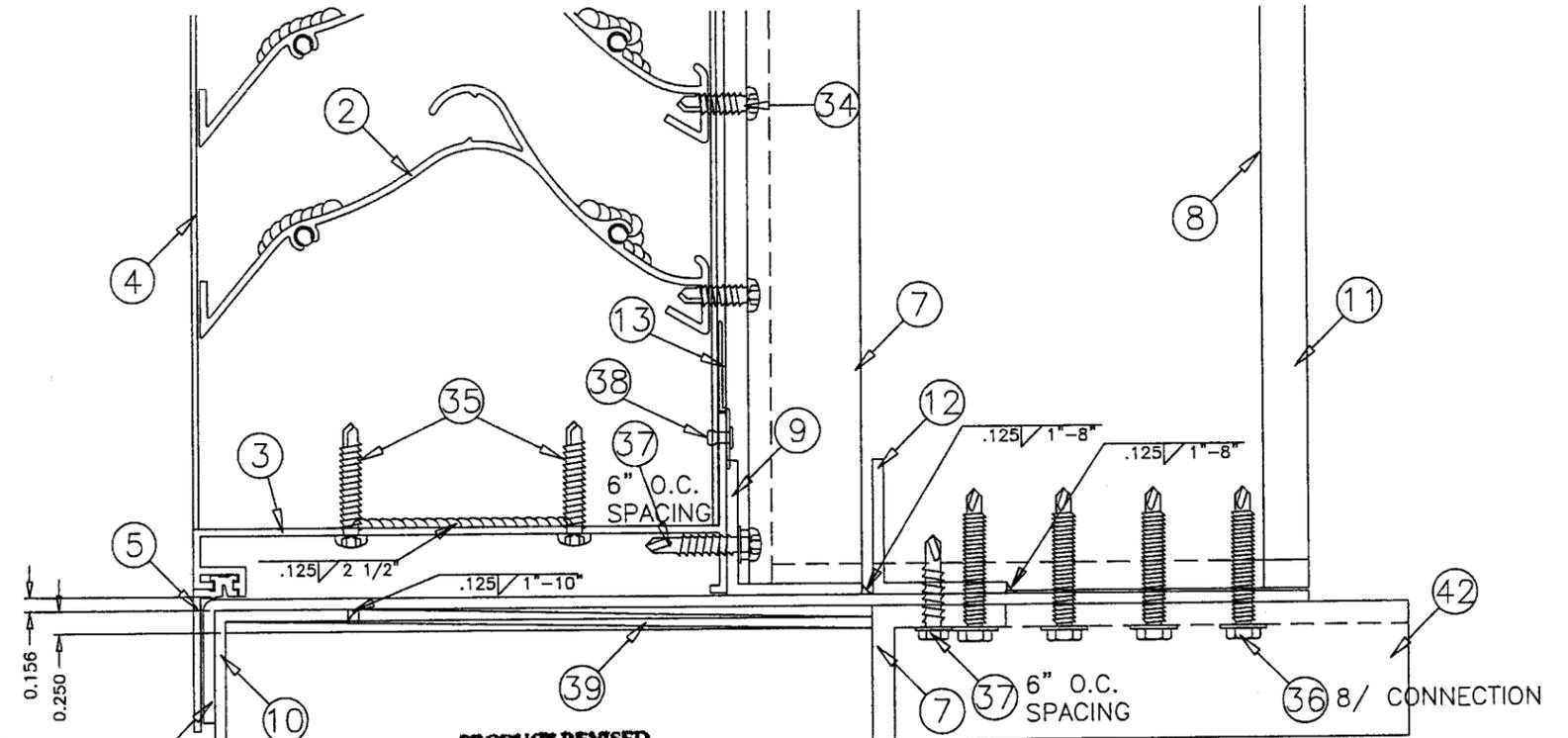
[Signature]  
 L. DAVID RICE

1A HEAD DETAIL  
LOUVER HEIGHT ≤ 144 IN.  
3/13 SCALE: -



SCH601MD

BUILDING STRUCTURE/DEPTH MAY VARY.  
BUILDING STRUCTURES INCLUDE BUT NOT  
LIMITED TO WOOD FRAME, STEEL STUDS,  
STRUCTURAL STEEL AND CONCRETE/MASONRY  
(NOT BY AIROLITE)

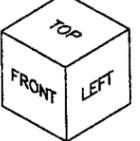
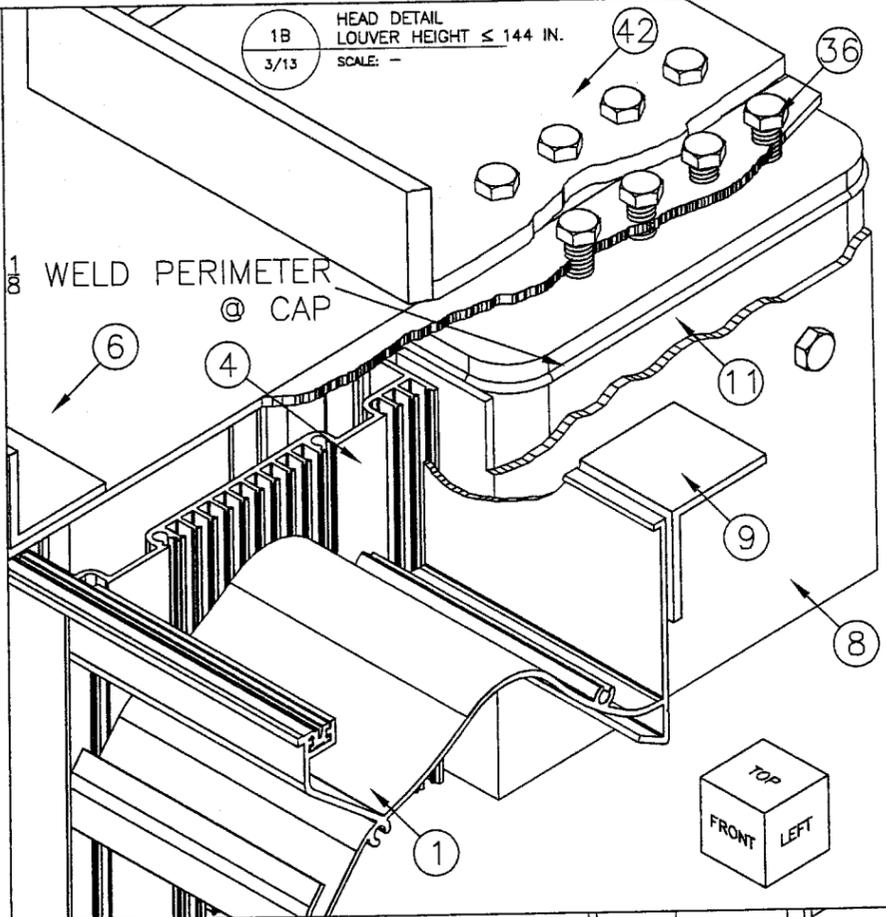


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Division

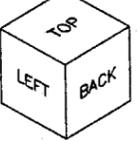
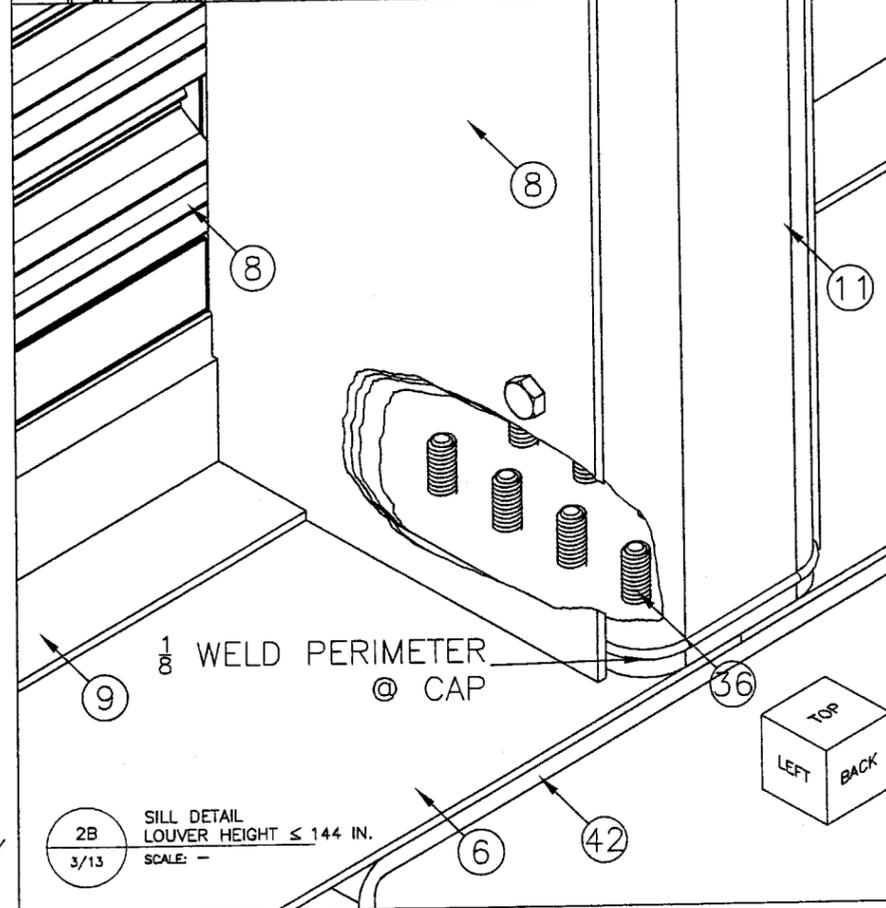
2A SILL DETAIL  
LOUVER HEIGHT ≤ 144 IN.  
3/13 SCALE: -

BUILDING STRUCTURE/DEPTH MAY VARY.  
BUILDING STRUCTURES INCLUDE BUT NOT  
LIMITED TO WOOD FRAME, STEEL STUDS,  
STRUCTURAL STEEL AND CONCRETE/MASONRY  
(NOT BY AIROLITE)

1B HEAD DETAIL  
LOUVER HEIGHT ≤ 144 IN.  
3/13 SCALE: -



2B SILL DETAIL  
LOUVER HEIGHT ≤ 144 IN.  
3/13 SCALE: -



|                     |                   |                      |                             |
|---------------------|-------------------|----------------------|-----------------------------|
| DRAWN BY<br>MARTENS | DATE<br>3/14/2007 | SHEET NO.<br>3 OF 13 | CAD DRAWING NO.<br>SCH601MD |
| SCALE<br>1/2        |                   |                      |                             |

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SCH601MD LOUVER  
FLANGE FRAME  
HEAD & SILL DETAILS  
W/TUBE CONNECTION

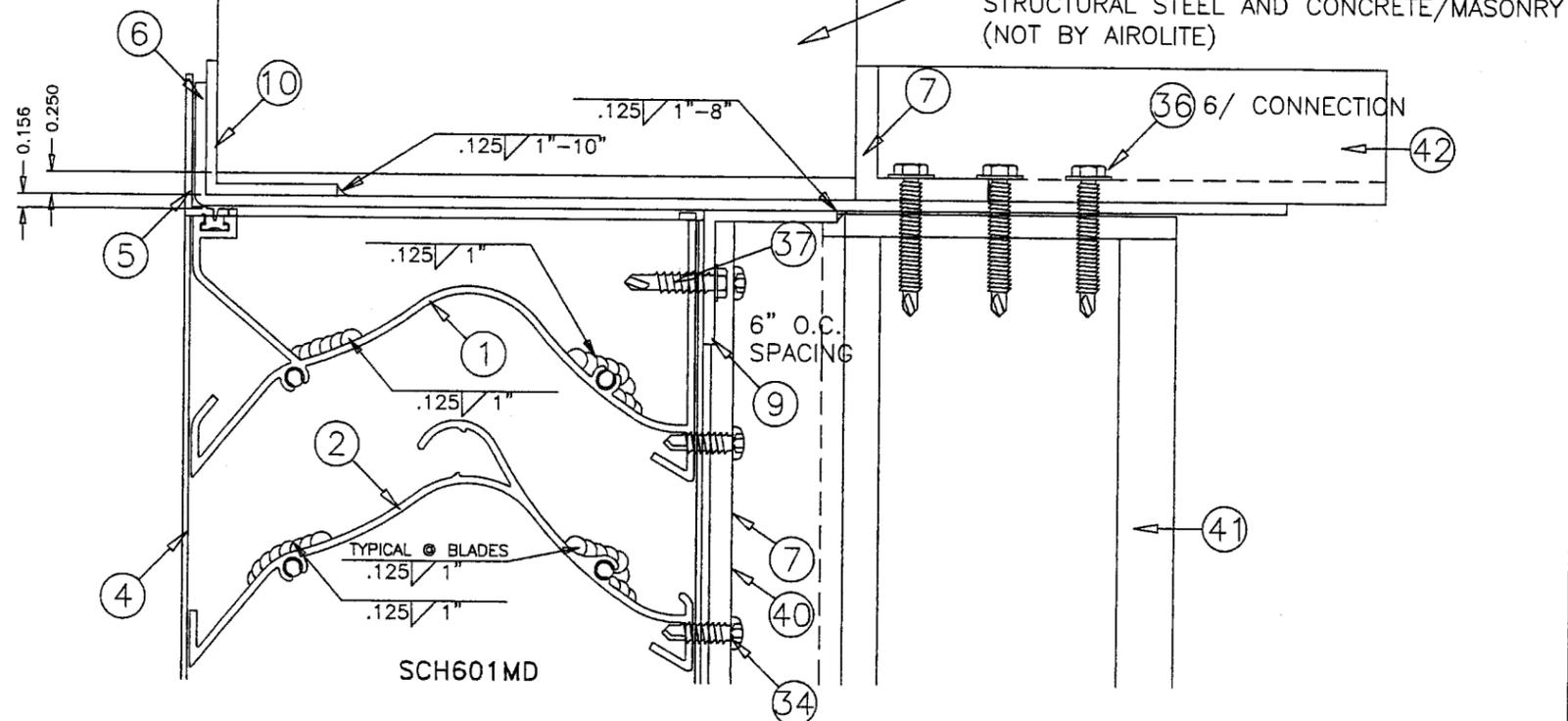
**RICE**  
**ENGINEERING**  
105 School Creek Trail  
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Fax: 920.845.1048  
www.rice-inc.com  
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Certificate of Authorization: #9090  
L. David Rice  
Registration No: 50923

*[Signature]*

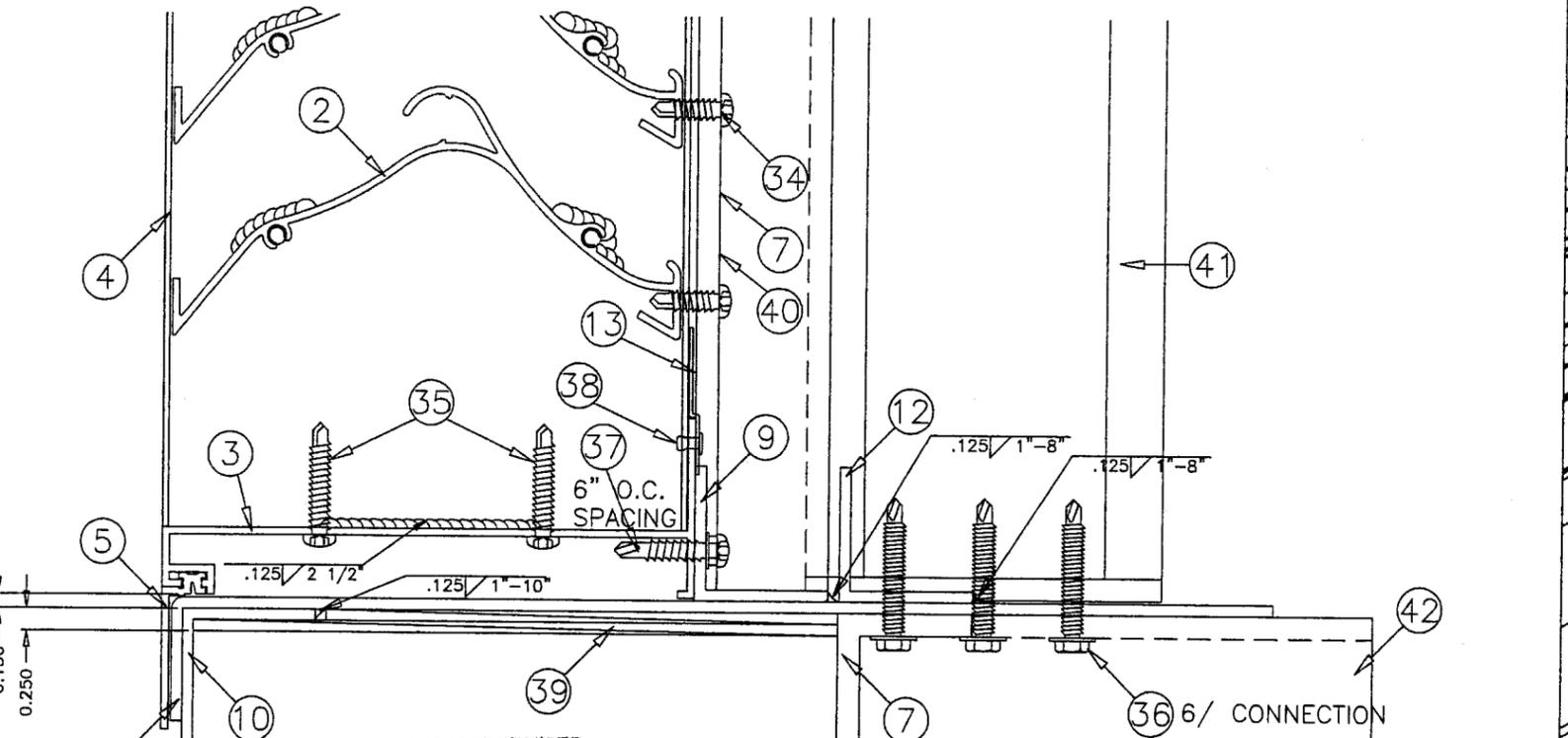
L. DAVID RICE

JAN 24 2008

3A HEAD DETAIL  
LOUVER HEIGHT ≤ 96 IN.  
4/13 SCALE: -



SCH601MD



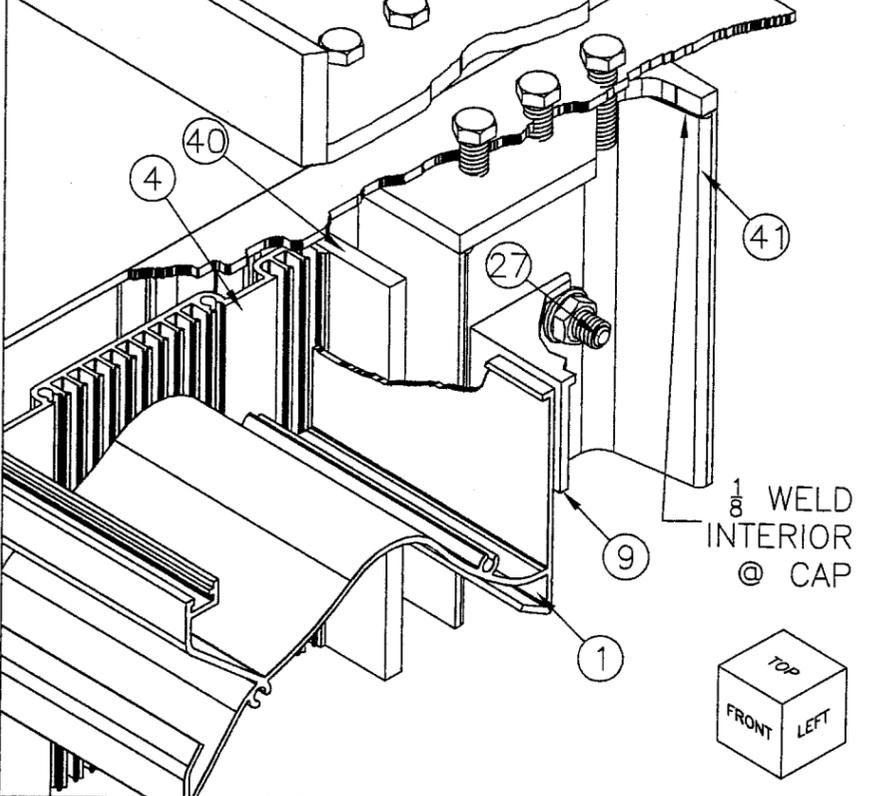
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No *08-2229.05*  
Expiration Date *11/1/2012*  
By *[Signature]*  
Miami Trade Product Control  
Division

4A SILL DETAIL  
LOUVER HEIGHT ≤ 96 IN.  
4/13 SCALE: -

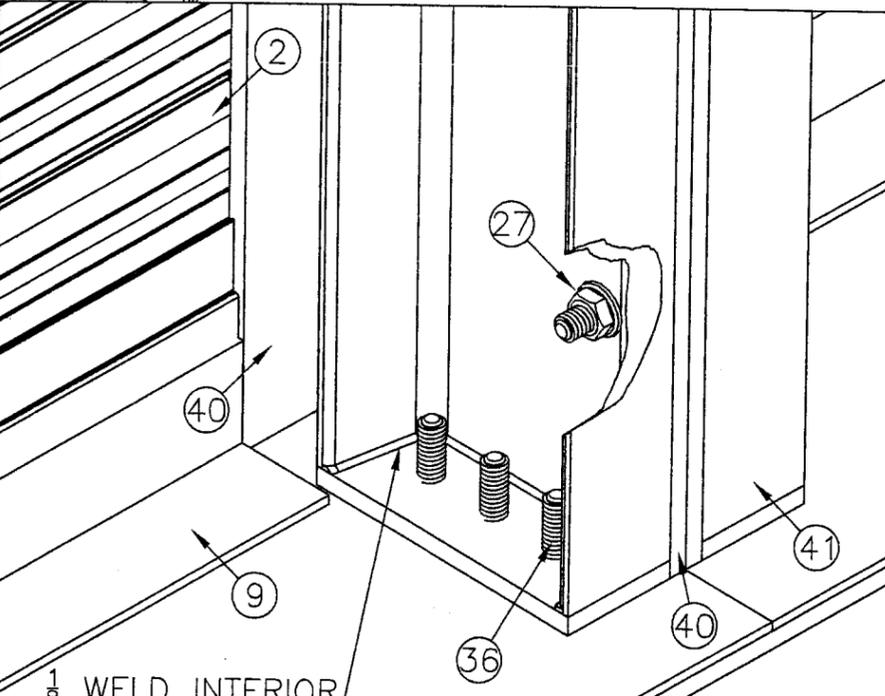
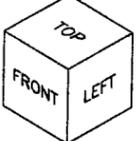


BUILDING STRUCTURE/DEPTH MAY VARY.  
BUILDING STRUCTURES INCLUDE BUT NOT  
LIMITED TO WOOD FRAME, STEEL STUDS,  
STRUCTURAL STEEL AND CONCRETE/MASONRY  
(NOT BY AIROLITE)

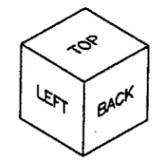
3B HEAD DETAIL  
LOUVER HEIGHT ≤ 96 IN.  
4/13 SCALE: -



1/8" WELD  
INTERIOR  
@ CAP



1/8" WELD  
INTERIOR  
@ CAP



4B SILL DETAIL  
LOUVER HEIGHT ≤ 96 IN.  
4/13 SCALE: -

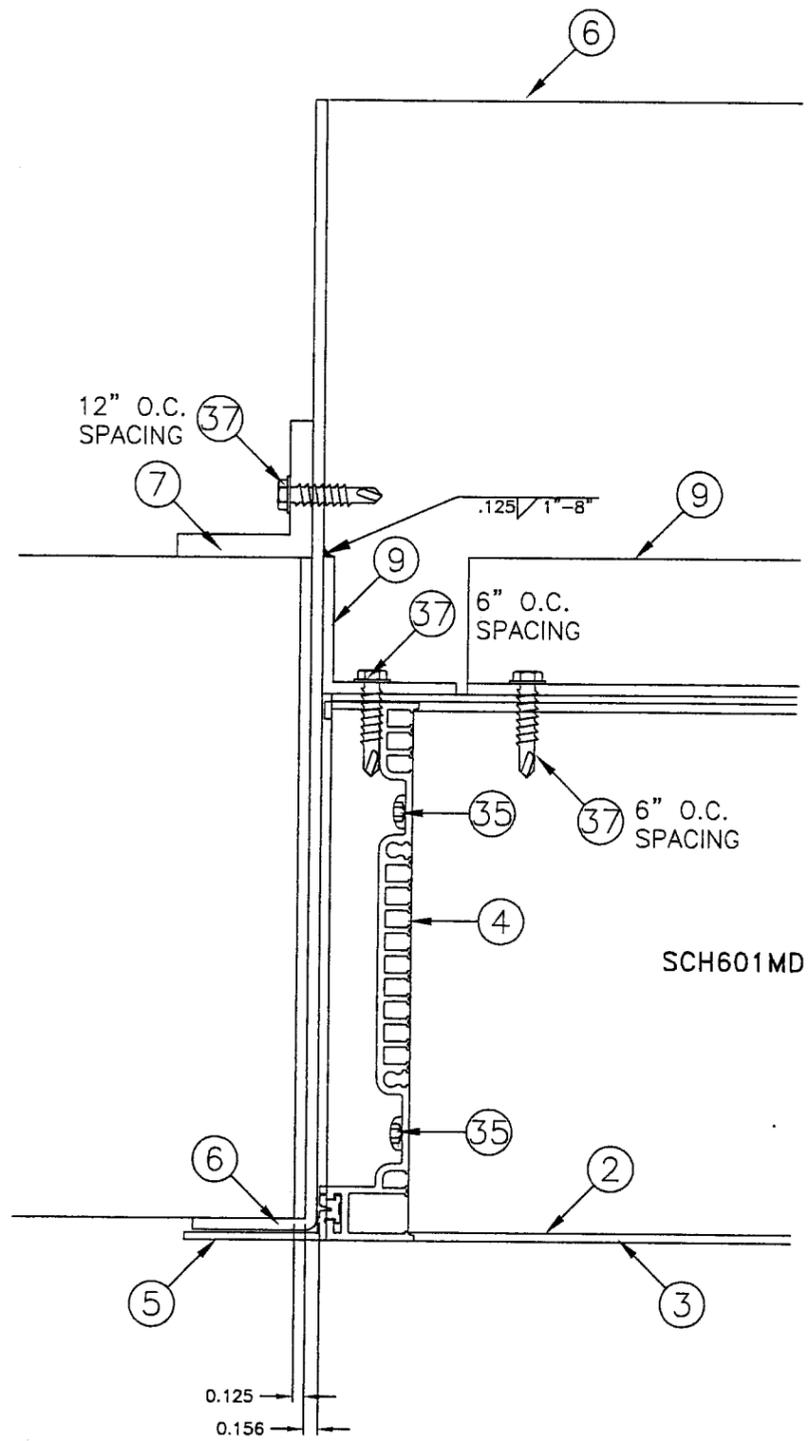
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|-----------------------------|----------------------|
| DRAWN BY<br>MARTENS         | DATE<br>3/14/2007    |
| SCALE<br>1/2                | SHEET NO.<br>4 OF 13 |
| CAD DRAWING NO.<br>SCH601MD |                      |

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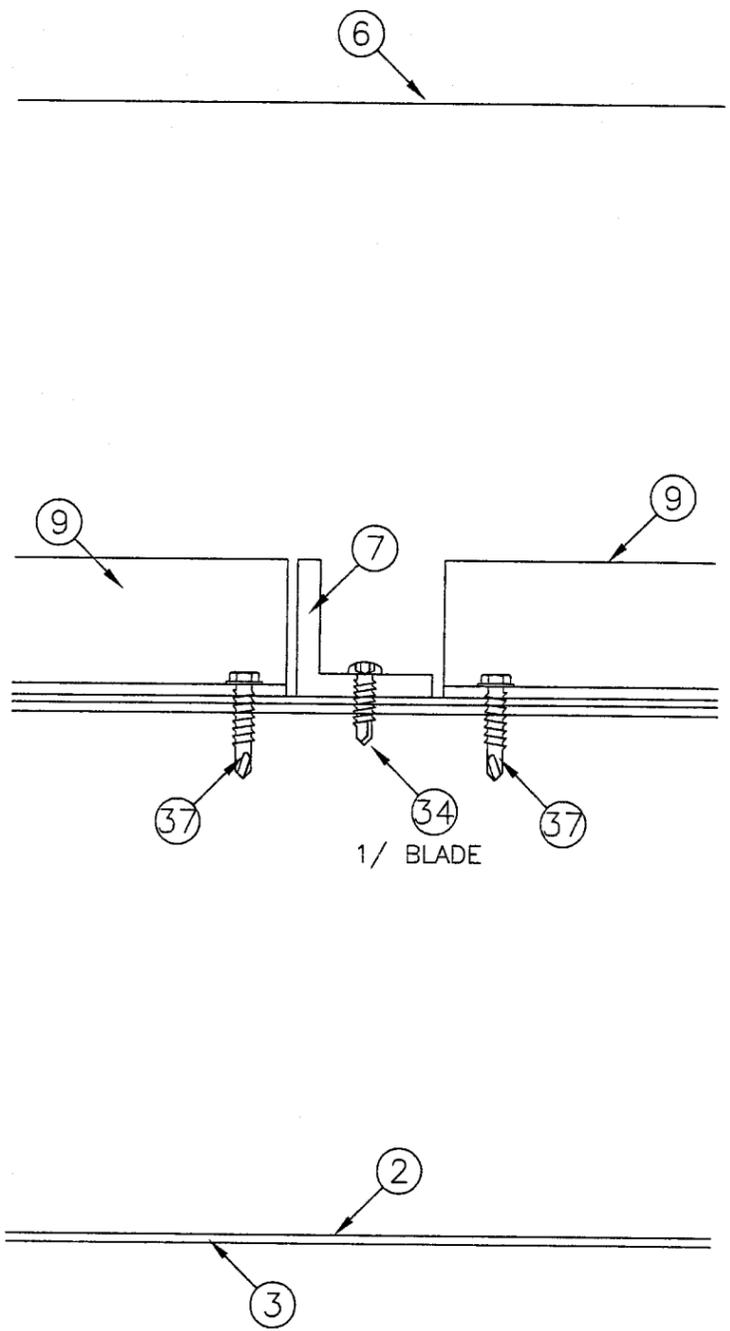
TITLE  
SCH601MD LOUVER  
FLANGE FRAME  
HEAD & SILL DETAILS  
C-CHANNEL CONNECTION

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105 School Creek Trail  
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Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
L. David Rice  
Registration No: 50923

*[Signature]*  
L. DAVID RICE



5 JAMB DETAIL  
5/13 SCALE: -



6 SUPPORT DETAIL  
5/13 SCALE: -

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Acceptance No *DR-02291.05*  
Expiration Date *11/1/2012*  
By *[Signature]*  
Miami Dade Product Control  
Division

|                             |                      |
|-----------------------------|----------------------|
| DRAWN BY<br>MARTENS         | DATE<br>3/14/2007    |
| SCALE<br>1/2                | SHEET NO.<br>5 OF 13 |
| CAD DRAWING NO.<br>SCH601MD |                      |

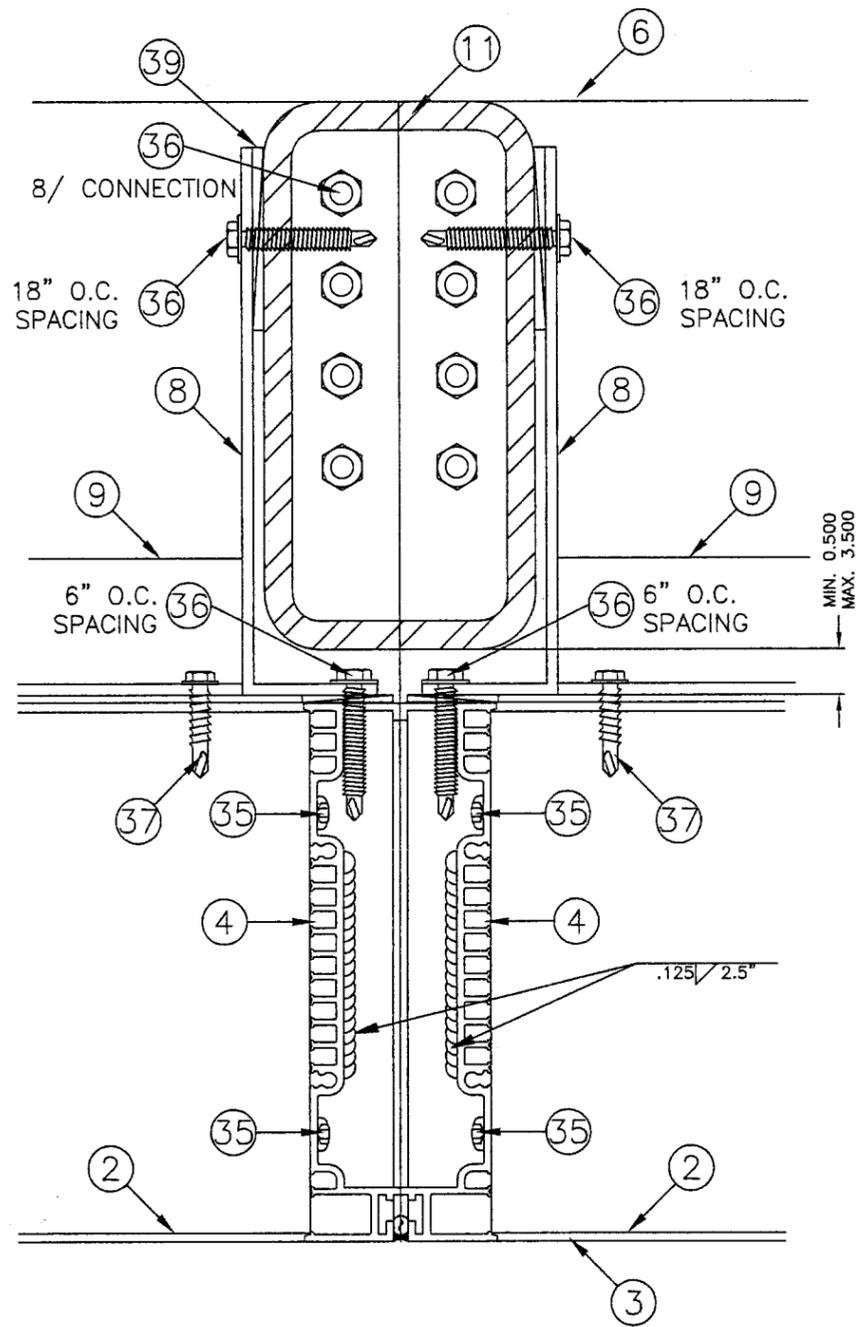


SCH601MD LOUVER  
FLANGE FRAME  
JAMB DETAILS

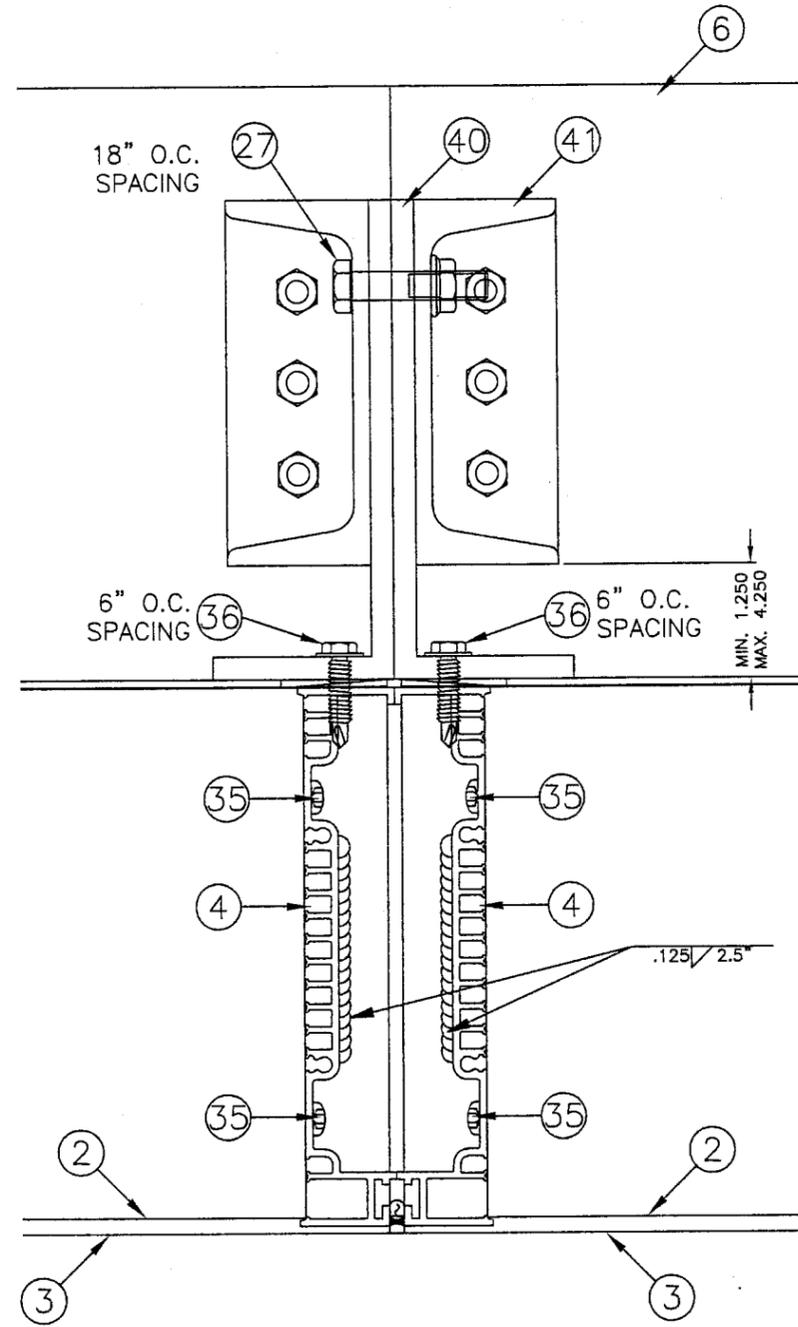
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Certificate of Authorization: #9090  
L. David Rice  
Registration No: 50923

*[Signature]*  
L. DAVID RICE



7A STACK DETAIL  
LOUVER HEIGHT ≤ 144 IN.  
6/13 SCALE: -



7B STACK DETAIL  
LOUVER HEIGHT ≤ 96 IN.  
6/13 SCALE: -

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Building Code  
Acceptance No 08-0229.05  
Expiration Date 11/1/2012  
By [Signature]  
Miami Dade Product Control  
Division

|                 |           |
|-----------------|-----------|
| DATE            | 3/14/2007 |
| DRAWN BY        | MARTENS   |
| SCALE           | 1/2       |
| SHEET NO.       | 6 OF 13   |
| CAD DRAWING NO. | SCH601MD  |

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SCH601MD LOUVER  
FLANGE FRAME  
JAMB DETAILS

**RICE**  
**ENGINEERING**

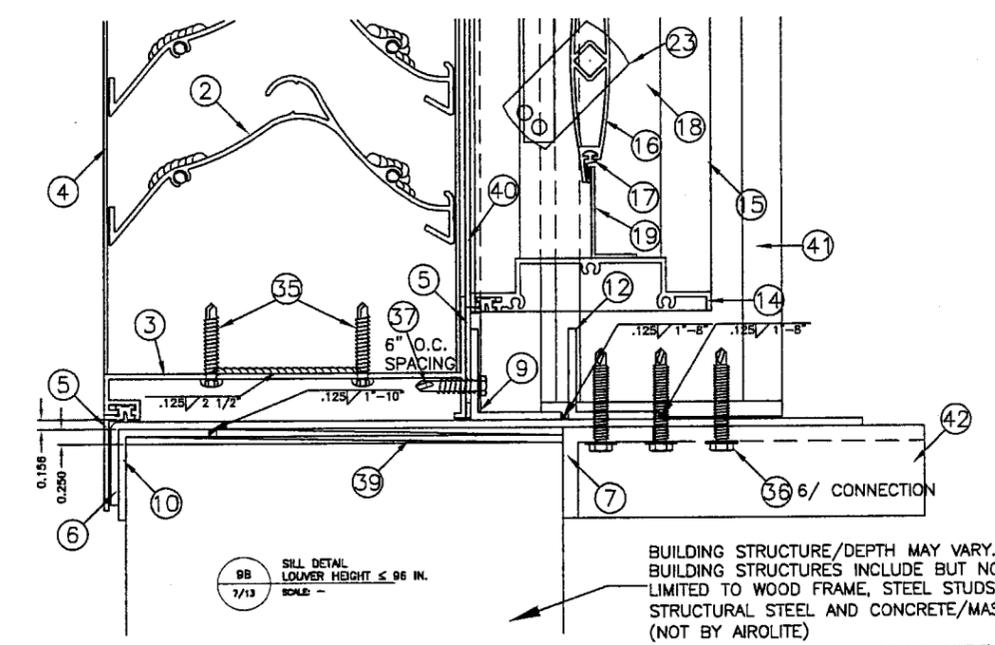
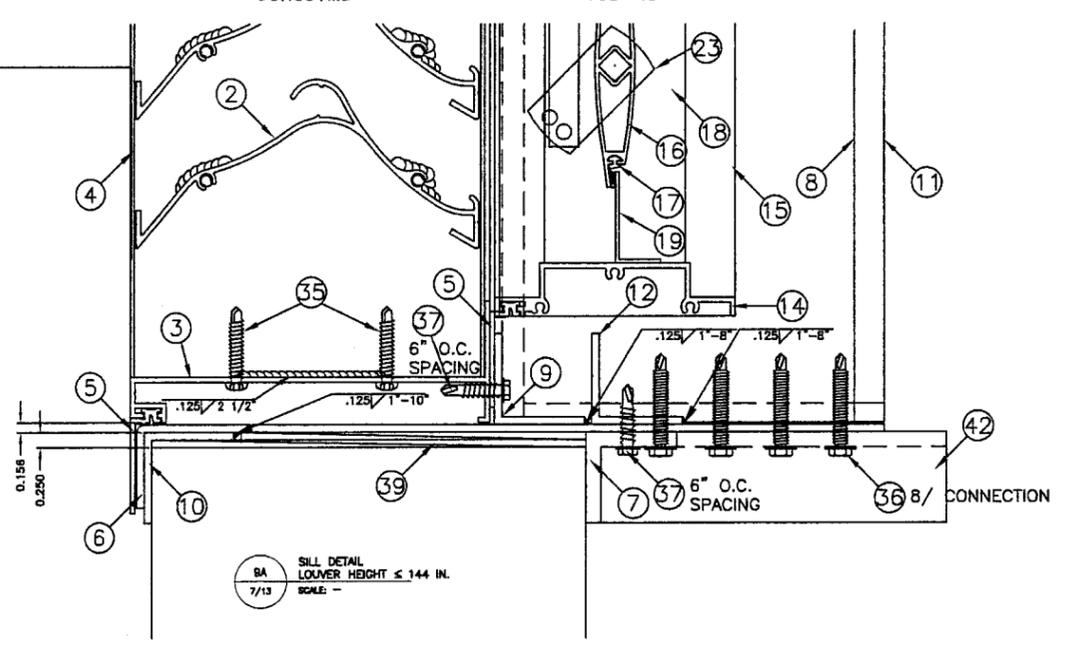
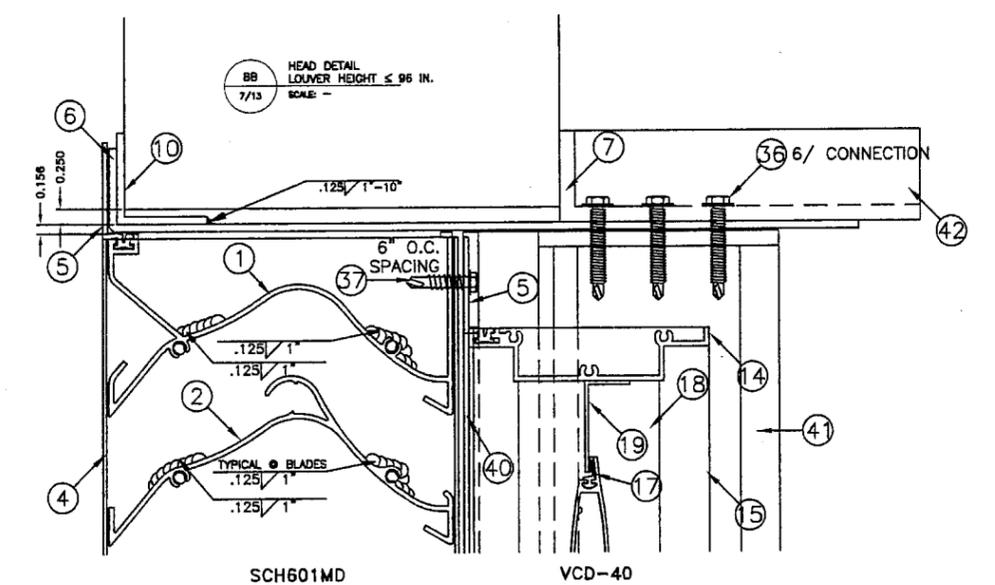
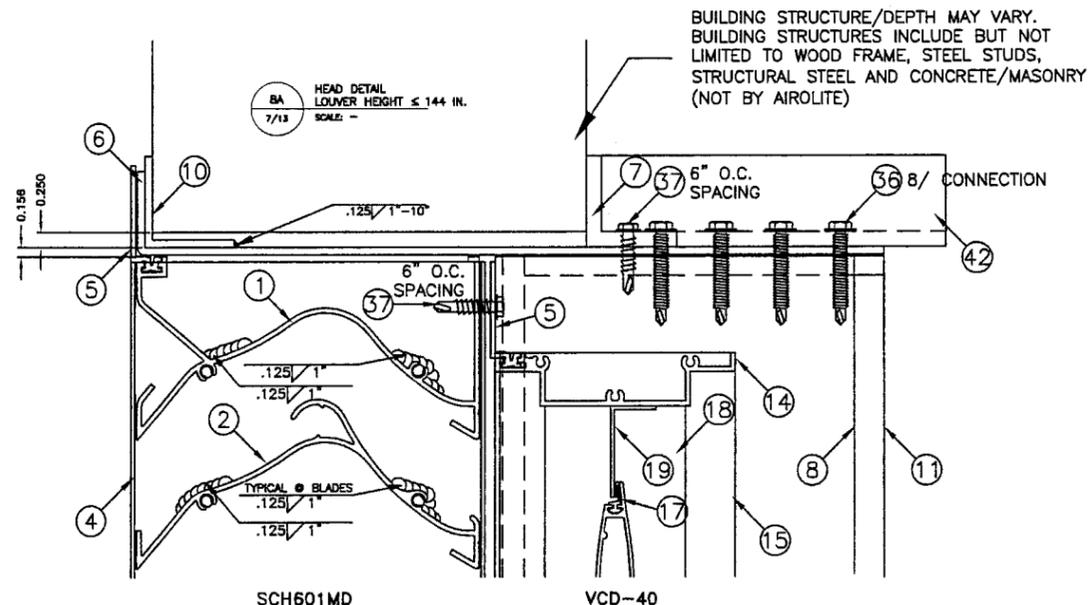
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: 920.845.1042  
Fax: 920.845.1048  
www.rice-inc.com

Florida Firm No: F-0100005061  
Certificate of Authorization: #9090  
L. David Rice  
Registration No: 50923

[Signature]

L. DAVID RICE

JAN 24 2008



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 as complying with the Florida  
 Building Code  
 Acceptance No. *CR-0229-05*  
 Expiration Date *11/17/2012*  
 By *[Signature]*  
 Miami Dade Product Control  
 Division

|                                    |                             |
|------------------------------------|-----------------------------|
| DRAWN BY<br><b>MARTENS</b>         | DATE<br><b>3/14/2007</b>    |
| SCALE<br><b>1/3</b>                | SHEET NO.<br><b>7 OF 13</b> |
| CAD DRAWING NO.<br><b>SCH601MD</b> |                             |

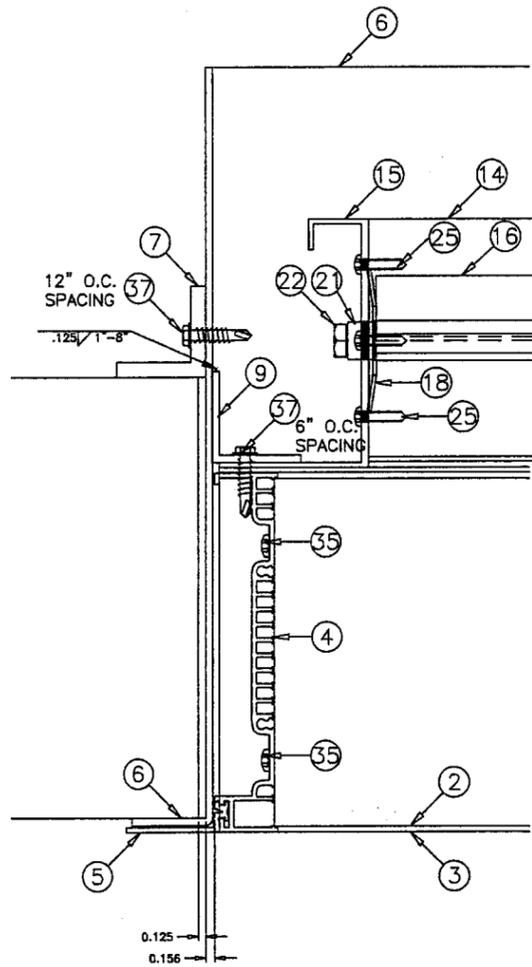
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TITLE  
**SCH601MD LOUVER  
 FLANGE FRAME  
 W/ VCD-40  
 HEAD & SILL DETAIL**

**RICE**  
**ENGINEERING**  
 105 School Creek Trail  
 Luxemburg, WI 54217  
 Phone: 920.845.1042  
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Florida Firm No: F-01000005061  
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 L. David Rice  
 Registration No: 50923

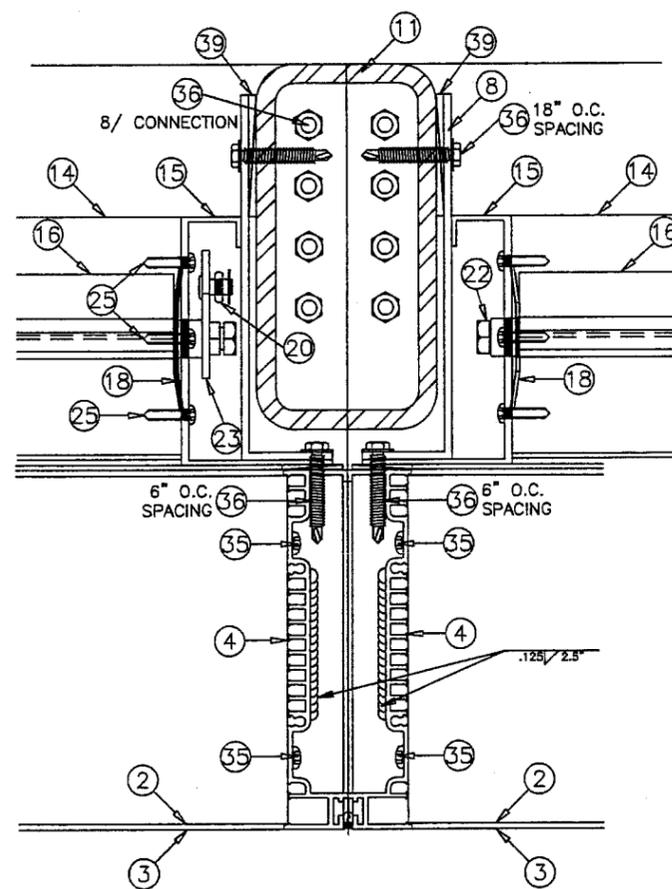
*[Signature]*  
**DAVID RICE**



10 JAMB DETAIL  
SCALE: -  
8/13

VCD-40

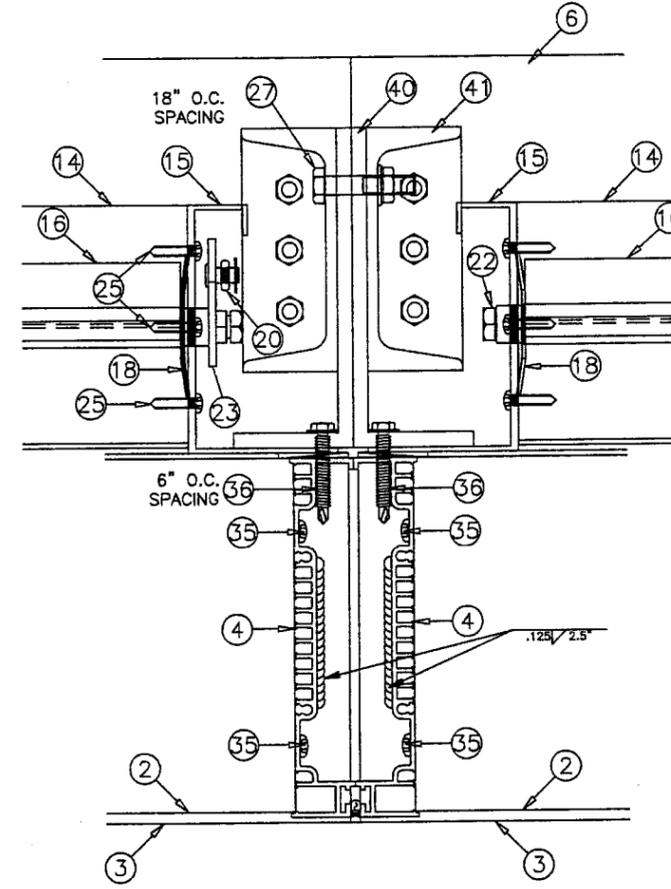
SCH601MD



11A STACK DETAIL  
LOUVER HEIGHT ≤ 144 IN.  
SCALE: -  
8/13

VCD-40

SCH601MD



11B STACK DETAIL  
LOUVER HEIGHT ≤ 96 IN.  
SCALE: -  
8/13

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No *08-0229-05*  
Expiration Date *11/1/2012*  
By *[Signature]*  
Miami/Dade Product Control  
Division

|                                    |                             |
|------------------------------------|-----------------------------|
| DRAWN BY<br><b>MARTENS</b>         | DATE<br><b>3/14/2007</b>    |
| SCALE<br><b>1/3</b>                | SHEET NO.<br><b>8 OF 13</b> |
| CAD DRAWING NO.<br><b>SCH601MD</b> |                             |

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SCH601MD LOUVER  
FLANGE FRAME  
W/ VCD-40  
JAMB DETAILS

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*[Signature]*

L. DAVID RICE

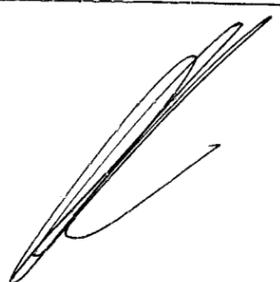
JAN 24 2008

**GENERAL NOTES:**

1. IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVERS.
2. THE SCH601MD AND SCH601MD/VCD-40 HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) AND TEST PROTOCOLS TAS-201 (IMPACT), TAS-202 (UNIFORM STATIC PRESSURE), AND TAS-203 (CYCLIC FATIGUE). THE SCH601MD/VCD-40 HAS BEEN TESTED IN ACCORDANCE WITH TAS100(A)-95 (WIND DRIVEN RAIN).
3. MAXIMUM SINGLE SECTION SIZE IS 72" WIDE X 144" HIGH.
4. MAXIMUM ASSEMBLED LOUVER SIZE IS UNLIMITED WIDE X 144" HIGH.
5. SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDING A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
6. ALL WOOD SUBSTRATE SHALL BE G = 0.55 DENSITY OR BETTER.
7. ALL METAL STUD SUBSTRATE SHOULD BE MIN. 16 GA. FY = 50 KSI.
8. ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 1/4" THICK FY = 36 KSI.
9. ALL CONCRETE SUBSTRATE SHALL BE MIN. 3000 PSI.
10. CONCRETE MASONRY SHALL BE ASTM C90, TYPE II, 2000 PSI GROUT-FILLED.
11. THE LOUVER UTILIZES AN ANCHORLESS INSTALLATION METHOD THAT DOES NOT REQUIRE THE USE OF FASTENERS INTO THE SUBSTRATE. IT MAY BE INSTALLED IN ANY SUBSTRATE THAT WILL WITHSTAND THE LOADS TRANSFERRED TO IT BY THE LOUVER. AIROLITE DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE STRUCTURE.
12. LOUVER ASSEMBLY IS QUALIFIED FOR A MAXIMUM DESIGN LOAD OF +/- 150 PSF.
13. LOUVER ASSEMBLY WITHOUT VCD-40 DAMPER SHALL ONLY BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM AND THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.
14. LOUVER ASSEMBLY WITH THE VCD-40 DAMPER MAY BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM OR THE ROOM WILL HOUSE NON-WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES. LOUVER ASSEMBLY WITH VCD DAMPER INSTALLATION IS LIMITED TO AN ELEVATION OF 33 FT ABOVE GRADE.
15. INSTALLER TO PROVIDE SEPARATION OF DISSIMILAR MATERIALS AS REQUIRED.
16. THE VCD-40 MAY BE OPERATED BY THE MANUAL QUADRANT SHOWN ON 13/13 OR BY AN ELECTRIC OR PNEUMATIC ACTUATOR. THE DAMPER'S ACTUATOR IS NOT PART OF THIS APPROVAL, BUT SHALL BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY.
17. FRAME CONSTRUCTION, HEADS AND SILLS ARE SQUARE CUT. JAMBS SQUARE CUT @ HEAD AND SILL. CORNERS ARE SECURED WITH (2) #10x1-1/4 SMS AND SILICONE SEALED. BLADES ARE SECURED TO JAMBS WITH (2) #10x1-1/4 SMS AND WELDED @ EACH END.

| ITEM # | DESCRIPTION                  | MATERIAL                       | NOTES                            |
|--------|------------------------------|--------------------------------|----------------------------------|
| 1      | LOUVER HEAD                  | 6063-T5 ALUMINUM               |                                  |
| 2      | LOUVER BLADE                 | 6063-T5 ALUMINUM               | 2.125" MAX. SPACING              |
| 3      | LOUVER SILL                  | 6063-T5 ALUMINUM               |                                  |
| 4      | LOUVER JAMB                  | 6063-T5 ALUMINUM               |                                  |
| 5      | LOUVER FLANGE                | 6063-T5 ALUMINUM               |                                  |
| 6      | FORMED SLEEVE                | 5052-H32 ALUMINUM              | 1/8" FORMED SLEEVE-DEPTH VARIES  |
| 7A     | 1 1/2 X 1 1/2 X 1/4 ANGLE    | 6063-T5 ALUMINUM               | BLADE SUPPORT ANGLE              |
| 7B     | 1 1/2 X 1 1/2 X 1/4 ANGLE    | 6063-T5 ALUMINUM               | USED AT HEAD & SILL OF SLEEVE    |
| 7C     | 1 1/2 X 1 1/2 X 1/4 ANGLE    | 6063-T5 ALUMINUM               | USED AT JAMB OF LOUVER/SLEEVE    |
| 8      | 1 1/2 X 6 X 1/8 ANGLE        | 6063-T5 ALUMINUM               | JAMB ANGLE                       |
| 9A     | 1 1/2 X 1 1/2 X 1/8 ANGLE    | 6063-T5 ALUMINUM               | USED AT HEAD & SILL OF LOUVER    |
| 9B     | 1 1/2 X 1 1/2 X 1/8 ANGLE    | 6063-T5 ALUMINUM               | USED AT JAMB OF SLEEVE           |
| 10     | 1 1/2 X 1 1/2 X 1/8 ANGLE    | 6063-T5 ALUMINUM               | USED AT HEAD & SILL OF SLEEVE    |
| 11     | 3 X 6 X 5/16 STEEL TUBE      | A36                            |                                  |
| 12     | 1 1/2 X 1 1/2 X 1/8 ANGLE    | 6063-T5 ALUMINUM               | USED AT SILL AS BACK OF SILL PAN |
| 13     | LOUVER BLANK OFF             | 6063-T5 ALUMINUM               | 3" LONG                          |
| 14     | DAMPER HEAD/SILL             | 6063-T5 ALUMINUM               |                                  |
| 15     | DAMPER JAMB                  | 6063-T5 ALUMINUM               |                                  |
| 16     | DAMPER BLADE                 | 6063-T5 ALUMINUM               | 3.75 MAX. SPACING                |
| 17     | DAMPER BLADE SEAL            | SILICONE                       |                                  |
| 18     | DAMPER JAMB SEAL             | SS                             |                                  |
| 19     | DAMPER TOP/BOTTOM CLOSURE    | ALUMINUM                       |                                  |
| 20A    | DAMPER LINKAGE BAR           | GALV. STEEL                    |                                  |
| 20B    | DAMPER LINKAGE BAR           | SS                             |                                  |
| 21A    | DAMPER AXLE BUSHING          | DELTRIN                        |                                  |
| 21B    | DAMPER AXLE BUSHING          | BRONZE                         |                                  |
| 21C    | DAMPER AXLE BUSHING          | SS                             |                                  |
| 22A    | NON-DRIVE DAMPER AXLE ASST.  | ZC STEEL PIN W/DELTRIN BUSHING |                                  |
| 22B    | NON-DRIVE DAMPER AXLE ASST.  | ZC STEEL PIN W/BRONZE BUSHING  |                                  |
| 22C    | NON-DRIVE DAMPER AXLE ASST.  | ZC STEEL PIN W/ SS BUSHING     |                                  |
| 22D    | NON-DRIVE DAMPER AXLE ASST.  | SS PIN W/ DELTRIN BUSHING      |                                  |
| 22E    | NON-DRIVE DAMPER AXLE ASST.  | SS PIN W/ BRONZE BUSHING       |                                  |
| 22F    | NON-DRIVE DAMPER AXLE ASST.  | SS PIN W/ SS BUSHING           |                                  |
| 23A    | DRIVE SIDE DAMPER AXLE ASST. | ZC/GALV. STEEL                 |                                  |
| 23B    | DRIVE SIDE DAMPER AXLE ASST. | SS                             |                                  |
| 24A    | 1/4 DIA. E-CLIP              | ZP                             |                                  |
| 24B    | 1/4 DIA. E-CLIP              | SS                             |                                  |
| 25     | #8 X .75 TYP TYPE AB SMS     | SS                             |                                  |
| 26     | #14 X .75 TEK                | ZP                             |                                  |
| 27A    | 1/4-20 X 1.25 HH CS          | ZP                             |                                  |
| 27B    | 1/4-20 X 1.5 HH CS           | SS                             |                                  |
| 28A    | 1/4-20 SF NUT                | ZP                             |                                  |
| 28B    | 1/4-20 SF NUT                | SS                             |                                  |
| 29     | REINFORCING STRAP            | 18-8 SS                        |                                  |
| 30     | 1/4-20 X .562 BALL SWIVEL    | ZP                             |                                  |
| 31A    | DAMPER BLADE DRIVE LEVER     | SS                             |                                  |
| 31B    | DAMPER BLADE DRIVE LEVER     | GALV. STEEL                    |                                  |
| 32     | DAMPER MANUAL QUAD ASSY.     |                                |                                  |
| 33     | 5/16 DIA. LINKAGE ROD        | ZP                             |                                  |
| 34     | #10 X 3/4" TYP SMS 18-8 SS   | 18-8 SS                        |                                  |
| 35     | #10 X 1 1/4" TYP SMS 316 SS  | 316 SS                         |                                  |
| 36     | 1/4" DIA. SS SCREW           |                                | 1 1/2" LONG                      |
| 37     | 1/4" DIA. SS SCREW           |                                | 1" LONG                          |
| 38     | 1/8" DIA. BLIND RIVET        | ALUMINUM                       |                                  |
| 39     | DEAD LOAD SHIMS              |                                | NOT BY AIROLITE                  |
| 40     | 5 1/4 X 2 X 1/4 ANGLE        | 6063-T5 ALUMINUM               | USED AT JAMB OF LOUVER/SLEEVE    |
| 41     | 4" CHANNEL                   | 6061-T6 ALUMINUM               | USED AT JAMB OF LOUVER/SLEEVE    |
| 42     | MULLION SLEEVE BRACKET       | 5052-H32 ALUMINUM              |                                  |
| 43     |                              |                                |                                  |

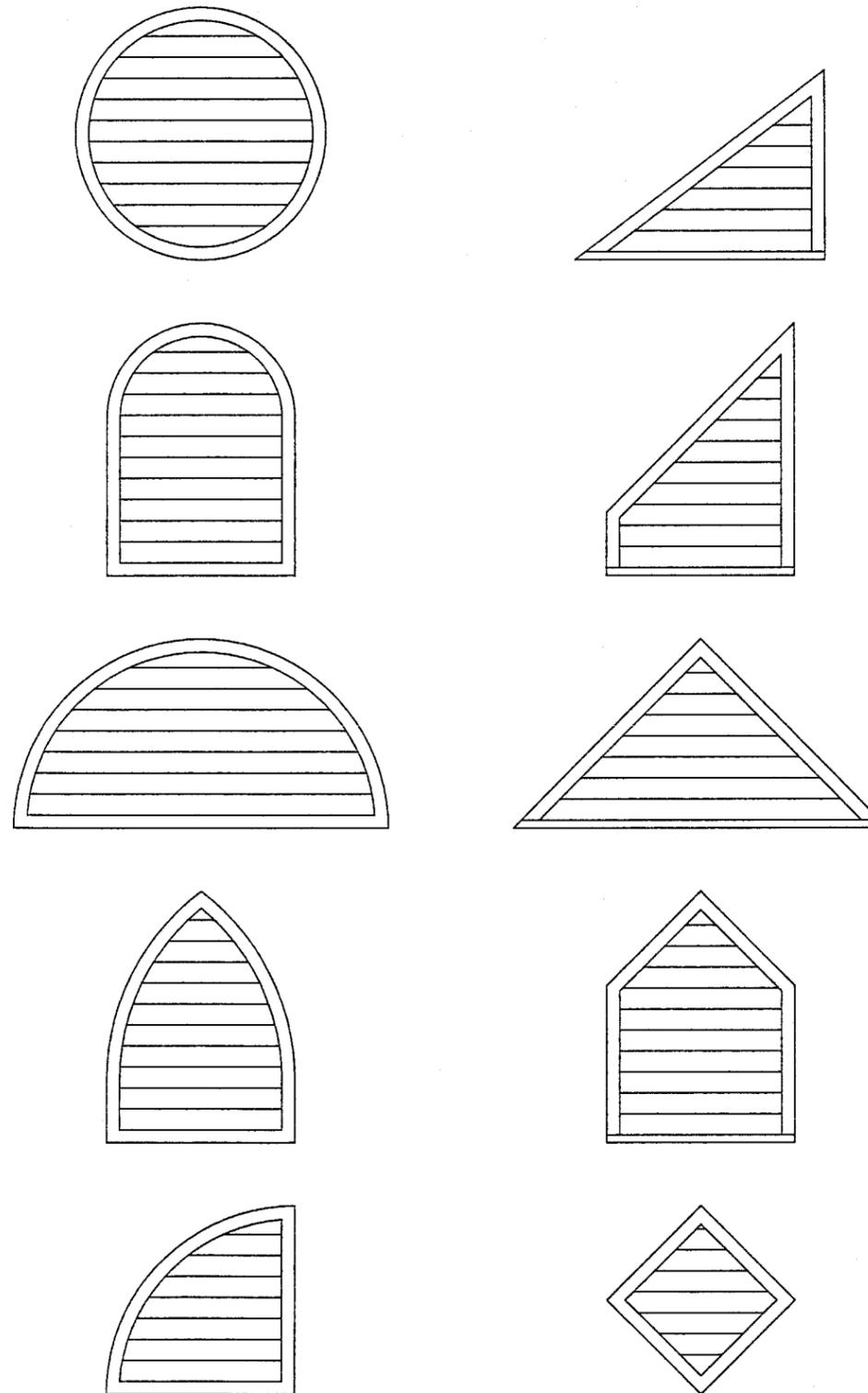
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| DCR  | BY  | DATE          | SYM |                             |
|  | NAH | 01/17<br>2008 | (1) |                             |
| ADDED WIND DRIVEN RAIN APPRVL  |     |               |     | DATE<br>3/14/2007           |
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| TITLE<br>SCH601MD LOUVER<br>FLANGED FRAME<br>W/ VCD-40   |     |               |     | NOTES/BILL OF MATERIAL      |
| <b>RICE ENGINEERING</b><br>105 School Creek Trail<br>Luxemburg, WI 54217<br>Phone: 920.845.1042<br>Fax: 920.845.1048<br>www.rice-inc.com<br><br>Florida Firm No: F-01000005061<br>Certificate of Authorization: #9090<br>L. David Rice<br>Registration No: 50923 |     |               |     |                             |
| <br>L. DAVID RICE   |     |               |     |                             |

**NOTES:**

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN AND HAVE CORNER CONSTRUCTION AS DESCRIBED ON ALL SHEETS.
2. ALL SHAPED LOUVER PANELS ARE RESTRICTED TO THE SAME PANEL WIDTH AND PRESSURE AS THE RECTANGULAR LOUVER PANELS AND MAY BE STACKED VERTICALLY AND HORIZONTALLY THE SAME AS THE RECTANGULAR PANELS.
3. WHEN SECTIONS EXCEED 36" IN LENGTH BLADE SUPPORT ANGLE AND BRACKETS ARE REQUIRED.

**AVAILABLE SHAPES**



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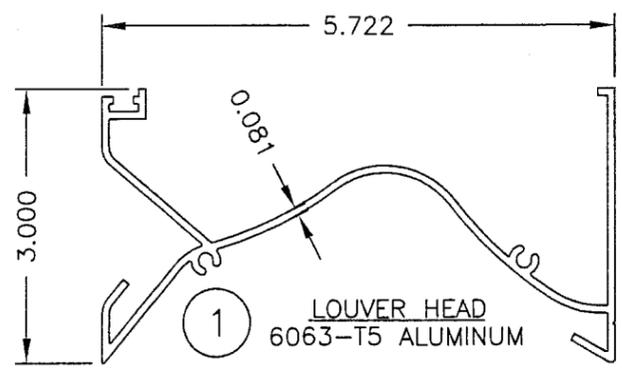
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 FLANGED FRAME  
 W/ VCD-40  
 AVAILABLE SHAPES

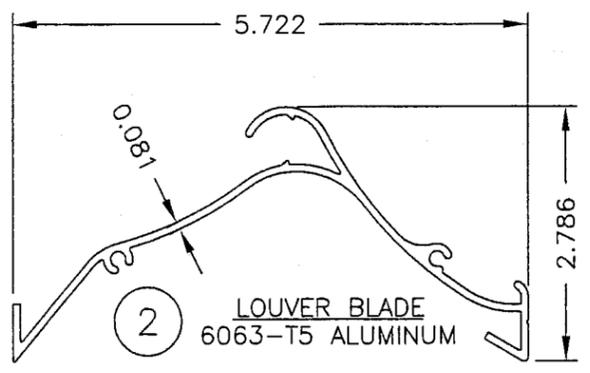
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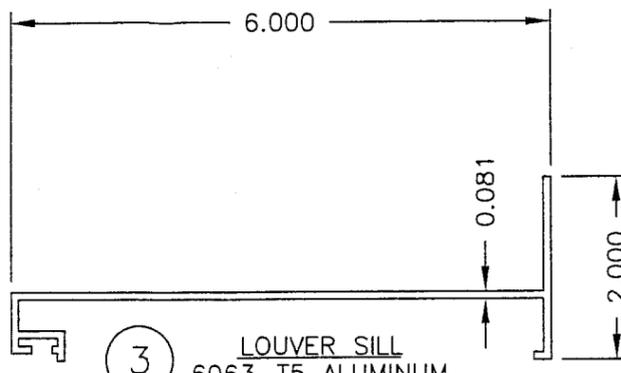
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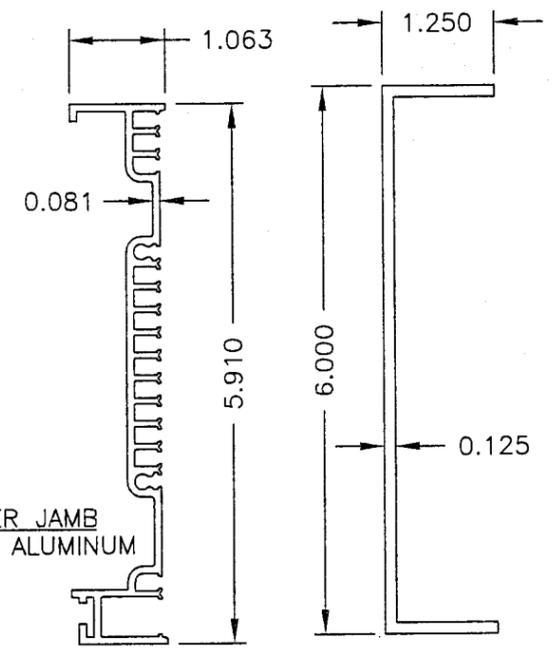
1 LOUVER HEAD  
6063-T5 ALUMINUM



2 LOUVER BLADE  
6063-T5 ALUMINUM

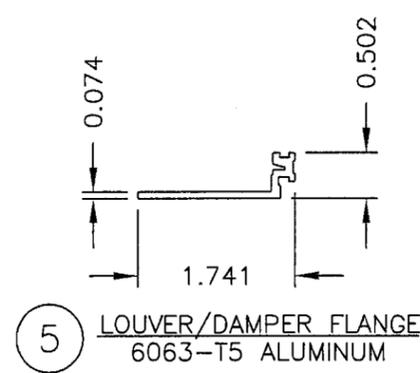


3 LOUVER SILL  
6063-T5 ALUMINUM

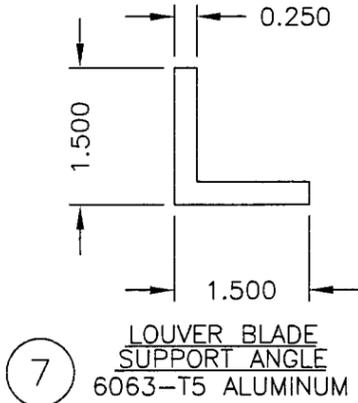


4A LOUVER JAMB  
6063-T5 ALUMINUM

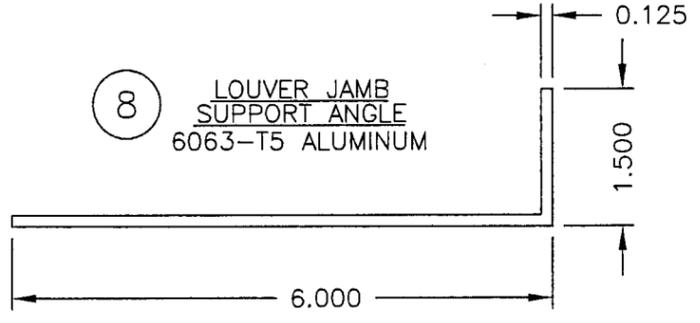
4B OPTIONAL JAMB  
6063-T5 ALUMINUM



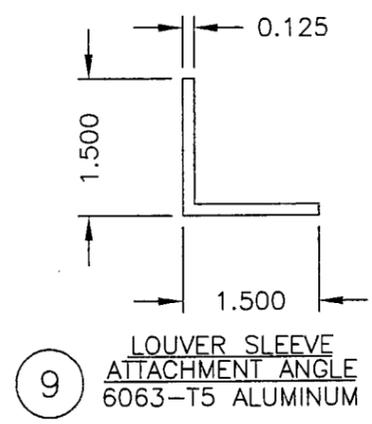
5 LOUVER/DAMPER FLANGE  
6063-T5 ALUMINUM



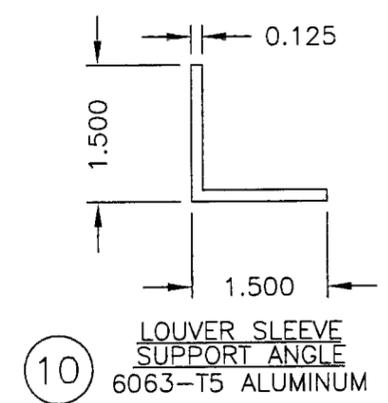
7 LOUVER BLADE  
SUPPORT ANGLE  
6063-T5 ALUMINUM



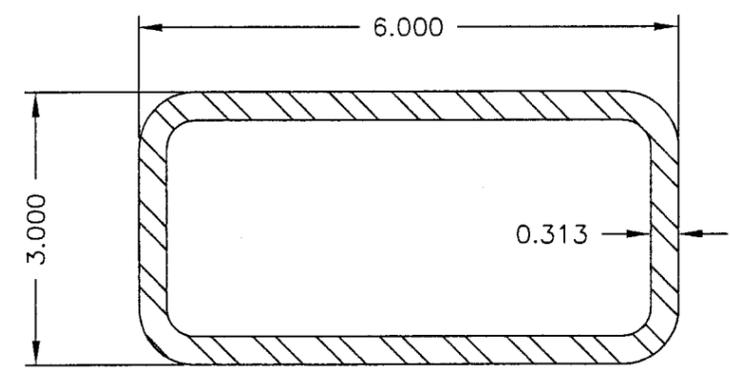
8 LOUVER JAMB  
SUPPORT ANGLE  
6063-T5 ALUMINUM



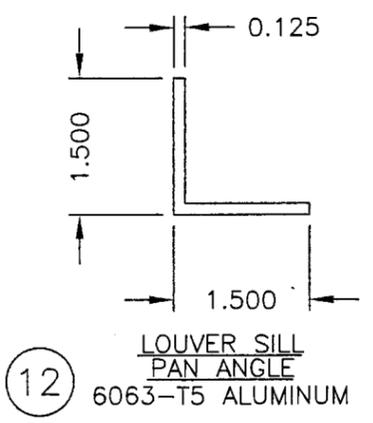
9 LOUVER SLEEVE  
ATTACHMENT ANGLE  
6063-T5 ALUMINUM



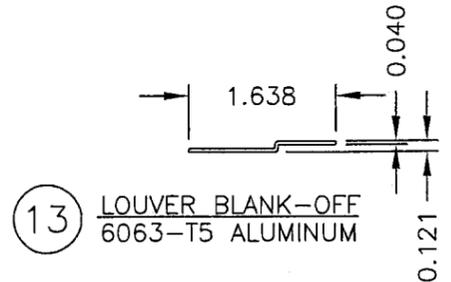
10 LOUVER SLEEVE  
SUPPORT ANGLE  
6063-T5 ALUMINUM



11 STEEL TUBE  
A36



12 LOUVER SILL  
PAN ANGLE  
6063-T5 ALUMINUM



13 LOUVER BLANK-OFF  
6063-T5 ALUMINUM

|                             |                       |
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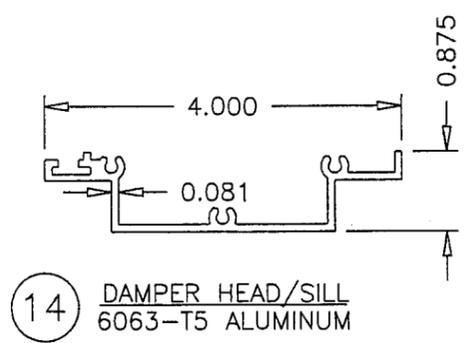
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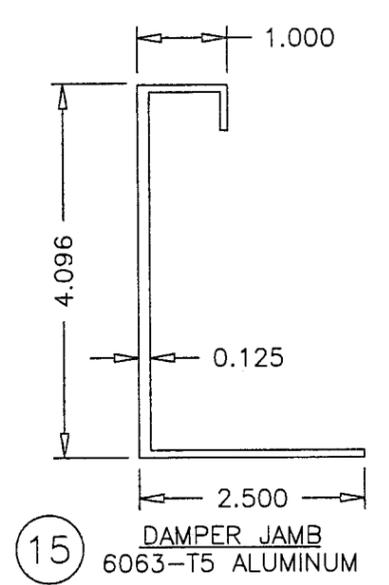
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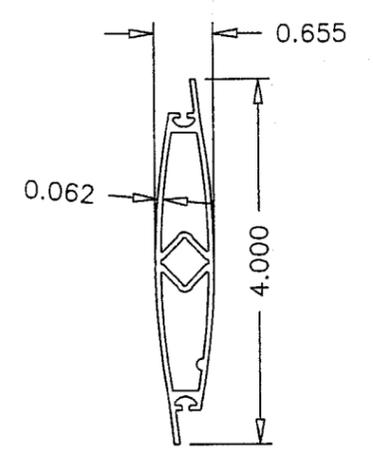
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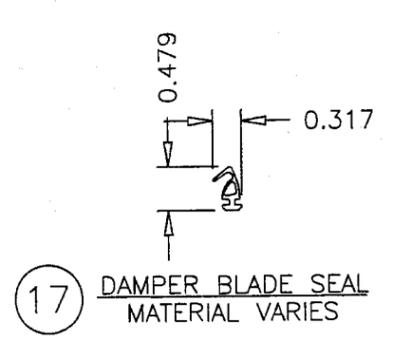
14 DAMPER HEAD/SILL  
6063-T5 ALUMINUM



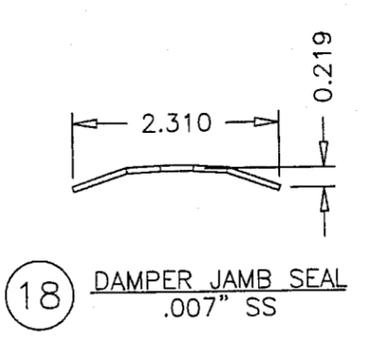
15 DAMPER JAMB  
6063-T5 ALUMINUM



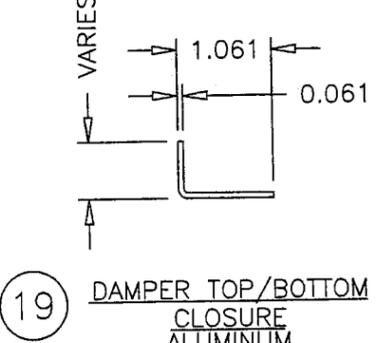
16 DAMPER BLADE  
6063-T5 ALUMINUM



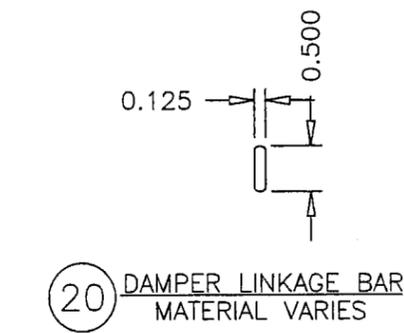
17 DAMPER BLADE SEAL  
MATERIAL VARIES



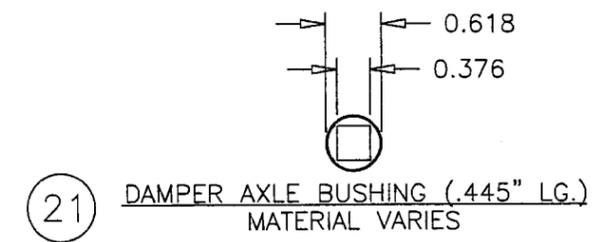
18 DAMPER JAMB SEAL  
.007" SS



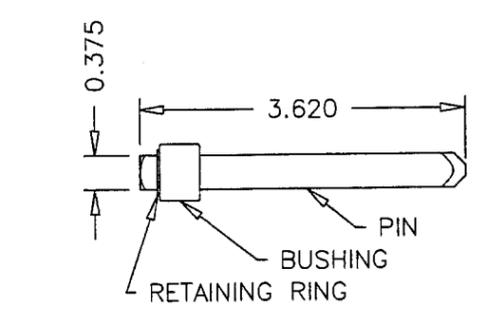
19 DAMPER TOP/BOTTOM  
CLOSURE  
ALUMINUM



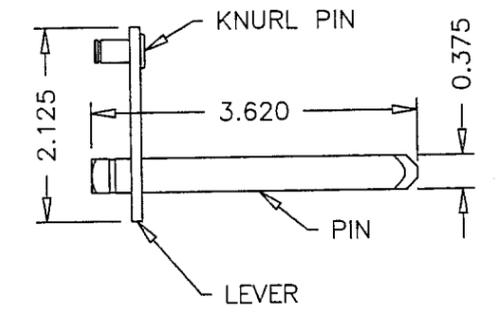
20 DAMPER LINKAGE BAR  
MATERIAL VARIES



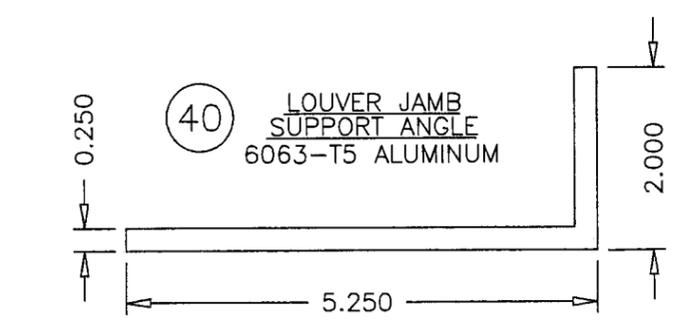
21 DAMPER AXLE BUSHING (.445" LG.)  
MATERIAL VARIES



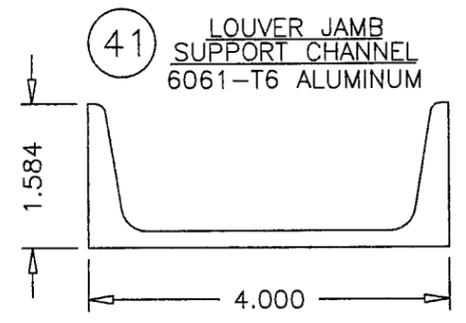
22 NON-DRIVE DAMPER AXLE ASSY.  
MATERIAL VARIES



23 DRIVE-SIDE DAMPER AXLE ASSY.  
MATERIAL VARIES

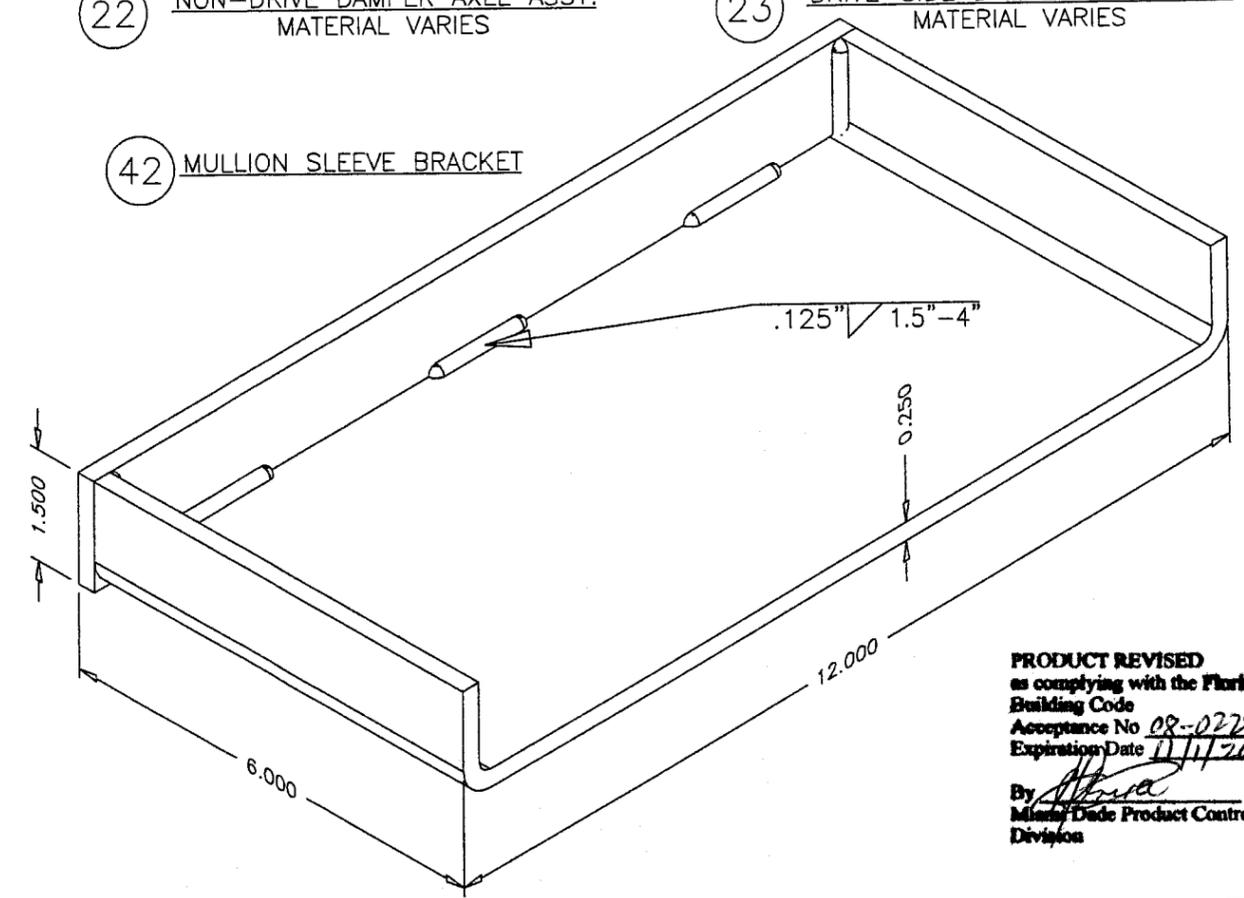


40 LOUVER JAMB  
SUPPORT ANGLE  
6063-T5 ALUMINUM



41 LOUVER JAMB  
SUPPORT CHANNEL  
6061-T6 ALUMINUM

42 MULLION SLEEVE BRACKET



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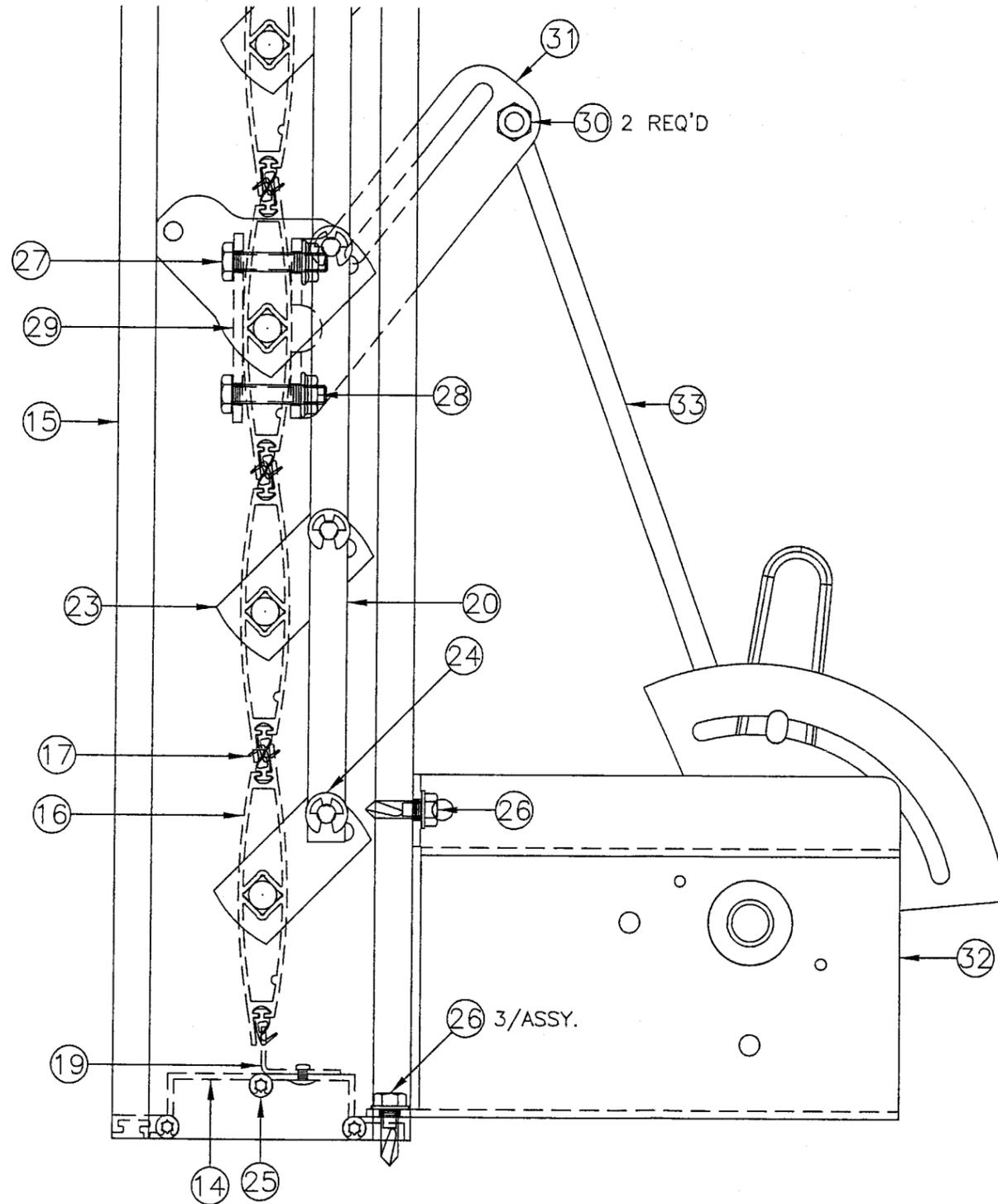
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Certificate of Authorization: #9090  
L. David Rice  
Registration No: 50923

*[Signature]*  
L. DAVID RICE



MANUAL QUADRANT ACTUATOR AS SHOWN  
 NOTE: DAMPER MAY BE OPERATED BY  
 MANUAL QUADRANT, AN ELECTRIC OR  
 PNEUMATIC ACTUATOR.

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