



**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)**

**Whirlwind Building Systems  
8234 Hansen Road  
Houston, TX 77075-1089**

**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: Weather Lok-16, 24 ga. (0.024" min.) Steel Roof Panel**

**APPROVAL DOCUMENT:** Drawing No. 14003502, titled "Weather Lok 16-24 Details", sheets 1 through 8, prepared by manufacturer, dated 3/27/02, signed and sealed by Terrence E. Wolfe, 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 Division.

**MISSILE IMPACT RATING: None**

**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 consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**

*TJB*  
7/8/2003



**NOA No 03-0708.01  
Expiration Date: August 29, 2007  
Approval Date: July 08, 2003  
Page 1**

**Wirlwind Building Systems**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

(For File ONLY. Not part of NOA)

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **14003502**, titled "Weather Lok 16-24 Details", sheets 1 through 8, prepared by manufacturer, dated 3/27/02, signed and sealed by Terrence E. Wolfe, P.E.

**B. TESTS**

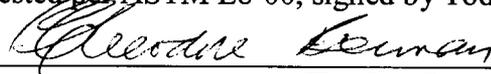
1. Test reports on 1) Uniform Static Air Pressure Test, Loading per SFBC PA 20294 along with marked-up drawings and installation diagram 24 GA 16" steel roof panel, prepared by Farabaugh Engineering & Testing, Inc., Test Report No. T191-01, dated 11/17/01, signed and sealed by Daniel Farabaugh, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per SFBC PA 20294 along with marked-up drawings and installation diagram 24 GA 16" steel roof panel, prepared by Farabaugh Engineering & Testing, Inc., Test Report No. T190-01, dated 11/17/01, signed and sealed by Daniel Farabaugh, P.E.
3. Test reports on 1) Large Missile Impact Test per SFBC, PA 201-94 along with marked-up drawings and installation diagram 24 GA 16" steel roof panel, prepared by Farabaugh Engineering & Testing, Inc., Test Report No. T209-01, dated 11/17/01, signed and sealed by Daniel Farabaugh, P.E.
4. Test reports on 1) Wind and Wind Driven Rain Resistance of Discontinuous Roof Systems, P 100-95 along with marked-up drawings and installation diagram 24 GA 16" steel roof panel, prepared by Asphalt Technologies, Inc., Test Report No. DDI-001-02-01, dated 12/11/01, signed and sealed by Charles L. Thomas, P.E.

**C. CALCULATIONS**

1. Anchor Calculations and structural analysis, prepared by Terrence E. Wolfe, P.E., dated 4/3/02, signed and sealed by Terrence E. Wolfe, P.E.

**D. MATERIAL CERTIFICATION**

1. Mill Certificate, prepared by Metal Prep, dated 7/12/02.
2. Tensile Test prepared by West Penn Testing Laboratories, Inc., Project No. T191-01, dated 7/19/01, for steel samples, tested per ASTM E8-00, signed by Todd Ault.
3. Tensile Test prepared by West Penn Testing Laboratories, Inc., Project No. T190-01, dated 7/19/01, for steel samples, tested per ASTM E8-00, signed by Todd Ault.
3. Tensile Test prepared by West Penn Testing Laboratories, Inc., Project No. T209-01, dated 7/19/01, for steel samples, tested per ASTM E8-00, signed by Todd Ault.



**Theodore Berman, P.E.**  
**Deputy Director, Product Control Division**

**NOA No 03-0708.01**

**Expiration Date: August 29, 2007**

**Approval Date: July 08, 2003**

**Wirlwind Building Systems**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

(For File ONLY. Not part of NOA)

**E. STATEMENTS**

1. Statement letter of conformance, dated 2/5/02, signed and sealed by Terrence E. Wolfe, P.E.
2. Statement letter of no financial interest, dated 2/5/02, signed by Terrence E. Wolfe, P.E., and signed and sealed by Debra Parten.

**F. OTHER**

1. Letter from Maurice Gray Associates, Inc.



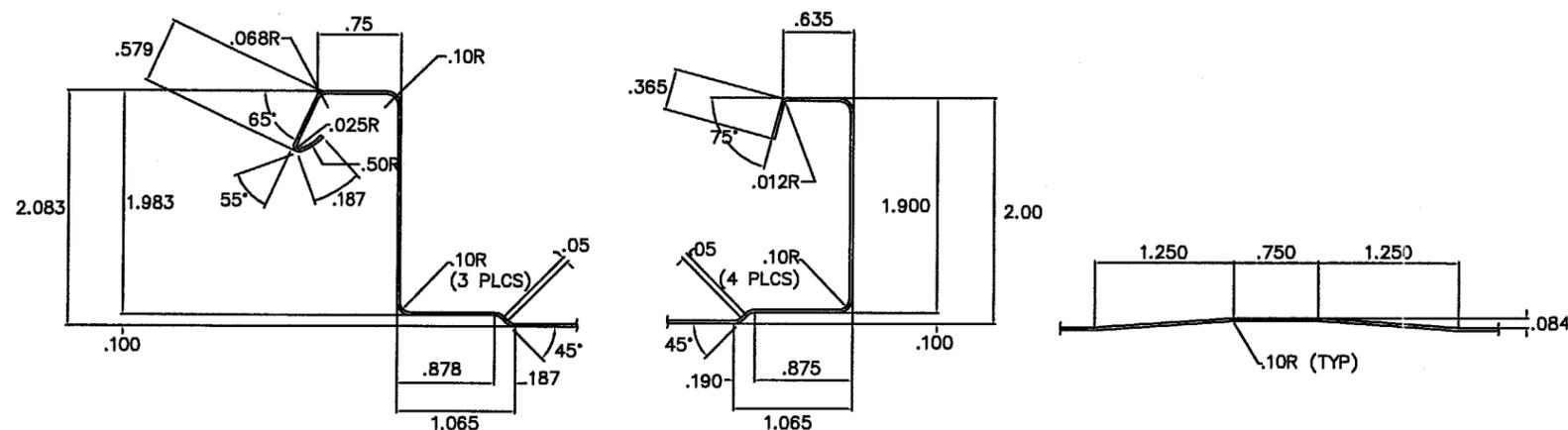
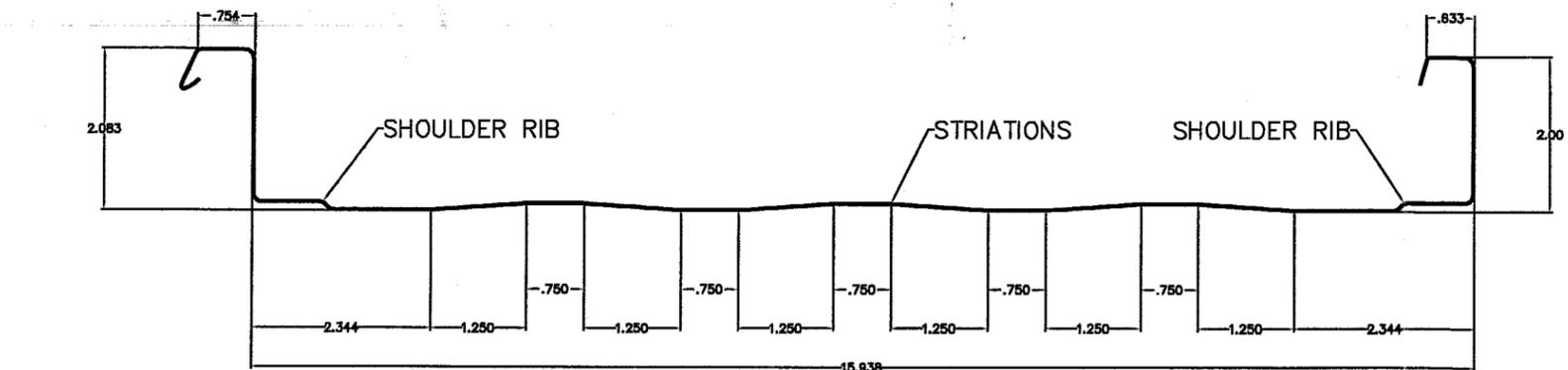
**Theodore Berman, P.E.**

**Deputy Director, Product Control Division**

**NOA No 03-0708.01**

**Expiration Date: August 29, 2007**

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| PANEL PROPERTIES                                     |                         |                 |                   |             |                |                |
|--|-------------------------|-----------------|-------------------|-------------|----------------|----------------|
| PANEL GAGE   | PAINTED PANEL THICKNESS | YIELD STRENGTH* | TENSILE STRENGTH* | ELONGATION* | STEEL COATING* | PAINT COATINGS |
| 24   | 0.024" MIN.             | 50 KSI          | 65 KSI            | 26.5        | AZ 55          | KYNAR 500      |
| *CONFORM TO ASTM A792<br>STRUCTURAL QUALITY GRADE 50 |                         |                 |                   |             |                |                |

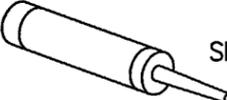
**NOTES:**

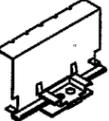
1. THE WEATHER LOK 16-24 ROOF PANELS SHALL BE USED FOR ROOF CONSTRUCTION ONLY. THE ACTUAL ROOF PROJECT SHALL BE CONSTRUCTED USING THE SAME DETAILS SHOWN ON THESE DRAWINGS INCLUDING:
  - a. DETAILS, ALL PANEL MATERIAL CHARACTERISTICS AND SECTION WITH DIMENSION AND THICKNESS
  - b. ERECTION DETAILS INCLUDING ALL CONNECTION'S FASTENERS DIAGRAM WITH SIZE AND LOCATION.
  - c. PANEL MAXIMUM SPAN AND PRESSURE FOR THE FIELD, PERIMETERS AND CORNERS BASED ON PANEL ALLOWABLES SHOWN BELOW.
2. THE MAXIMUM ALLOWABLE SPANS AND UPLIFT PRESSURES FOR THE WEATHER LOK 16-24 STEEL ROOF PANEL ARE AS FOLLOWS:

| MAXIMUM PANEL SPAN | MAXIMUM UPLIFT PRESSURE (psf) |
|--------------------|-------------------------------|
| 1'-0"              | 133.40                        |
| 1'-6"              | 122.53                        |
| 2'-0"              | 111.66                        |
| 2'-6"              | 100.79                        |
| 3'-0"              | 89.92                         |
| 3'-6"              | 79.06                         |
| 4'-0"              | 68.19                         |
| 4'-6"              | 57.32                         |
| 5'-2"              | 42.80                         |

3. ALL PANEL SUBMEMBERS SHALL BE MIN. 16 GA. (.056"). THEY ARE NOT PART OF APPROVAL AND SHALL BE REVIEWED STRUCTURALLY BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT FOR EACH JOB.

**PANEL ACCESSORIES**

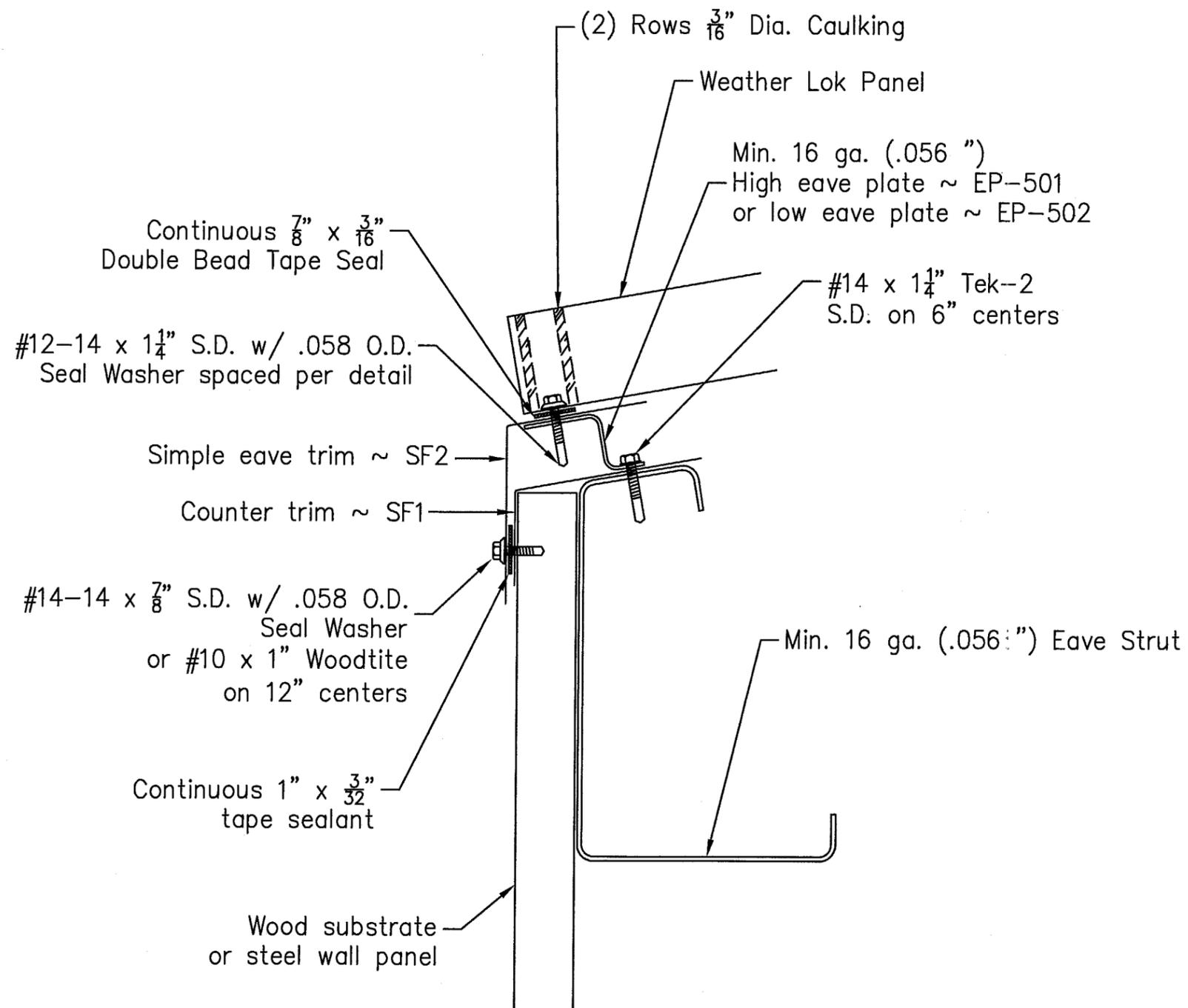
-  #12-14 x 1 1/4" ULTIMATE LONG-LIFE ZINC-ALUMINUM HEAD SELF-DRILLING w/ .58 O.D. SEALING WASHER, BY ATLAS.
-  #14 x 1 1/4" TEK-2 SELF-DRILLER, BY ATLAS
-  #14-14 x 7/8" ULTIMATE SELF-DRILLER W/ .58 O.D. SEALING WASHER, BY ATLAS.
-  #10 x 1" WOODTITE WOOD FASTENER w/DISH-BONDED ONE-PIECE SEALING WASHERS, BY ATLAS.
-  SM5522 ACRYL-R ACRYLIC SEALANT, BY SCHNEE-MOREHEAD.

-  1" x 3/32" BUTYL TAPE
-  1 1/2" x 3/32" BUTYL TAPE
-  1 5/8" x 1/8" BUTYL TAPE
-  7/8" x 3/16" DOUBLE BEAD BUTYL TAPE
-  2 1/2" x 3/16" TRI-BEAD BUTYL TAPE
-  WEATHER LOK LOW MOVABLE CLIP
-  WEATHER LOK HIGH MOVABLE CLIP

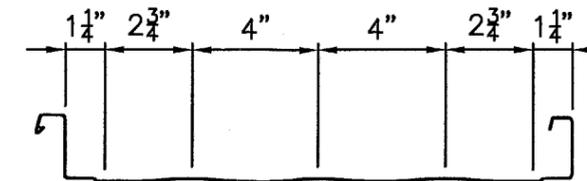
Approved as existing with the Florida Building Code  
 Date 07/08/03  
 NOAS 03-0408-01  
 Miami Dade Product Control  
 Division  
 By: *Glenn Korman*

|   |                              |                |                         |
|---|------------------------------|----------------|-------------------------|
| MANUFACTURING ENGINEER<br>TERRENCE E. WOLFE, P.E.   |                              |                |                         |
| FLORIDA REGISTRATION NO.<br>44923   |                              |                |                         |
| WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24  |                              |                |                         |
|  WHIRLWIND BUILDING SYSTEMS<br><small>P.O. BOX 75280 • 8234 HANSEN HOUSTON, TX 77254-0280 • 713-948-7140</small> |                              |                |                         |
| PROJECT   | DADE COUNTY PRODUCT APPROVAL | REV. BY        | DATE                    |
| SHEET TITLE   | WEATHER LOK 16-24 DETAILS    | CHECKED BY     | SCALE 3-27-02           |
| LOCATION  | DADE COUNTY, FLORIDA         | PROJECT NUMBER | DRAWING NUMBER 14003502 |
|   |                              |                | SHEET NUMBER 1 of 8     |

*Terrence Wolfe*  
 APR 03 2002



LOW EAVE



PANEL-EAVE FASTENERS

Approved as complying with the  
Florida Building Code  
Date 07/06/03  
NOAR 03-0308.01  
Miami Code Product Control  
By *Terrence E. Wolfe*

MANUFACTURING ENGINEER

TERRENCE E. WOLFE, P.E.

FLORIDA REGISTRATION NO.

44923

WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24



PROJECT

DADE COUNTY PRODUCT APPROVAL

| REV. | BY | DESCRIPTION | DATE |
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SHEET TITLE

WEATHER LOK 16-24 DETAILS

DRAWN BY:

DATE 3-27-02

CHECKED BY:

SCALE N.T.S.

LOCATION

DADE COUNTY, FLORIDA

PROJECT NUMBER

DRAWING NUMBER

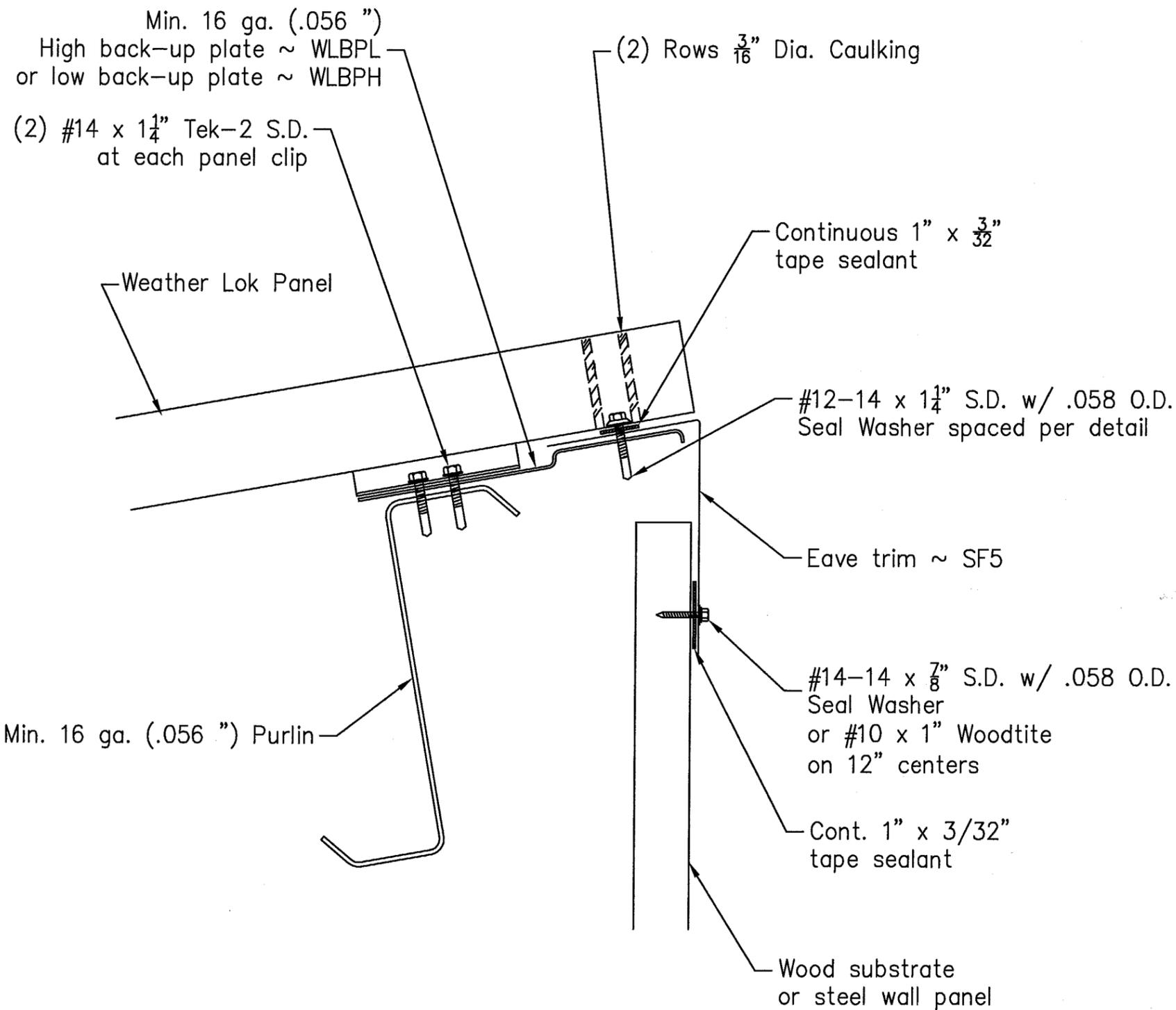
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SHEET NUMBER

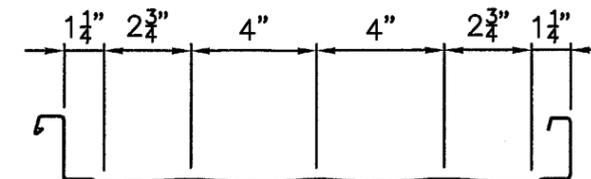
2 of 8

*Terrence Wolfe*

APR 03 2002



HIGH EAVE



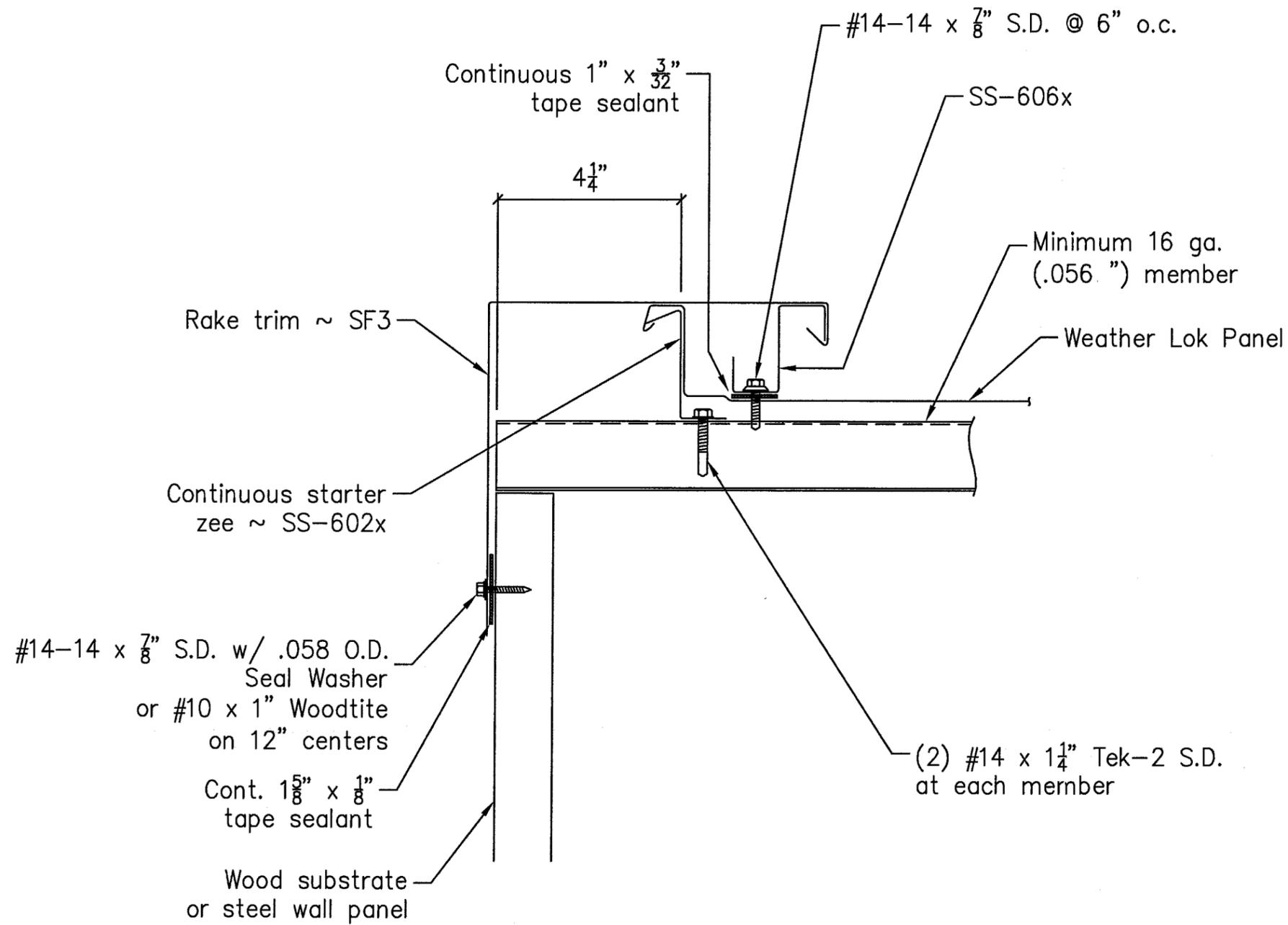
HIGH SIDE FASTENERS

Approved as complying with the  
Florida Building Code  
Date: 03/08/03  
NOA# 02-0308.01  
Miami Code Product Control  
Division  
By: *Terrence E. Wolfe*

|  |    |                |                |
|--|----|----------------|----------------|
| MANUFACTURING ENGINEER   |    |                |                |
| TERRENCE E. WOLFE, P.E.  |    |                |                |
| FLORIDA REGISTRATION NO.   |    |                |                |
| 44923  |    |                |                |
|  |    |                |                |
| <b>WHIRLWIND BUILDING SYSTEMS</b><br><small>P.O. BOX 75280 • 8234 HANSEN<br/>HOUSTON, TX 77234-5280 • 713-846-7140</small> |    |                |                |
| PROJECT  |    |                |                |
| DADE COUNTY PRODUCT APPROVAL   |    |                |                |
| REV.   | BY | DESCRIPTION    | DATE           |
|  |    |                |                |
| SHEET TITLE  |    | DRAWN BY:      | DATE           |
| WEATHER LOK 16-24 DETAILS  |    |                | 3-27-02        |
| CHECKED BY:  |    | SCALE          |                |
|  |    | N.T.S.         |                |
| LOCATION   |    | PROJECT NUMBER | DRAWING NUMBER |
| DADE COUNTY, FLORIDA   |    |                | 14003502       |
|  |    | SHEET NUMBER   |                |
|  |    |                | 3 of 8         |

*Terrence E. Wolfe*

APR 03 2002



RAKE I

*Terrence Wolfe*  
 APR 03 2002

Approved as complying with the  
 Florida Building Code  
 Date 03/08/03  
 NOAH 03-0308.01  
 Miami Dade Product Control  
 Division  
 By *Glenn Berman*

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MANUFACTURING ENGINEER  
 TERRENCE E. WOLFE, P.E.

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FLORIDA REGISTRATION NO.  
 44923

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WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24

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**WHIRLWIND BUILDING SYSTEMS**  
 P.O. BOX 75280 • 8234 HANSEN  
 HOUSTON, TX 77234-5280 • 713-946-7140

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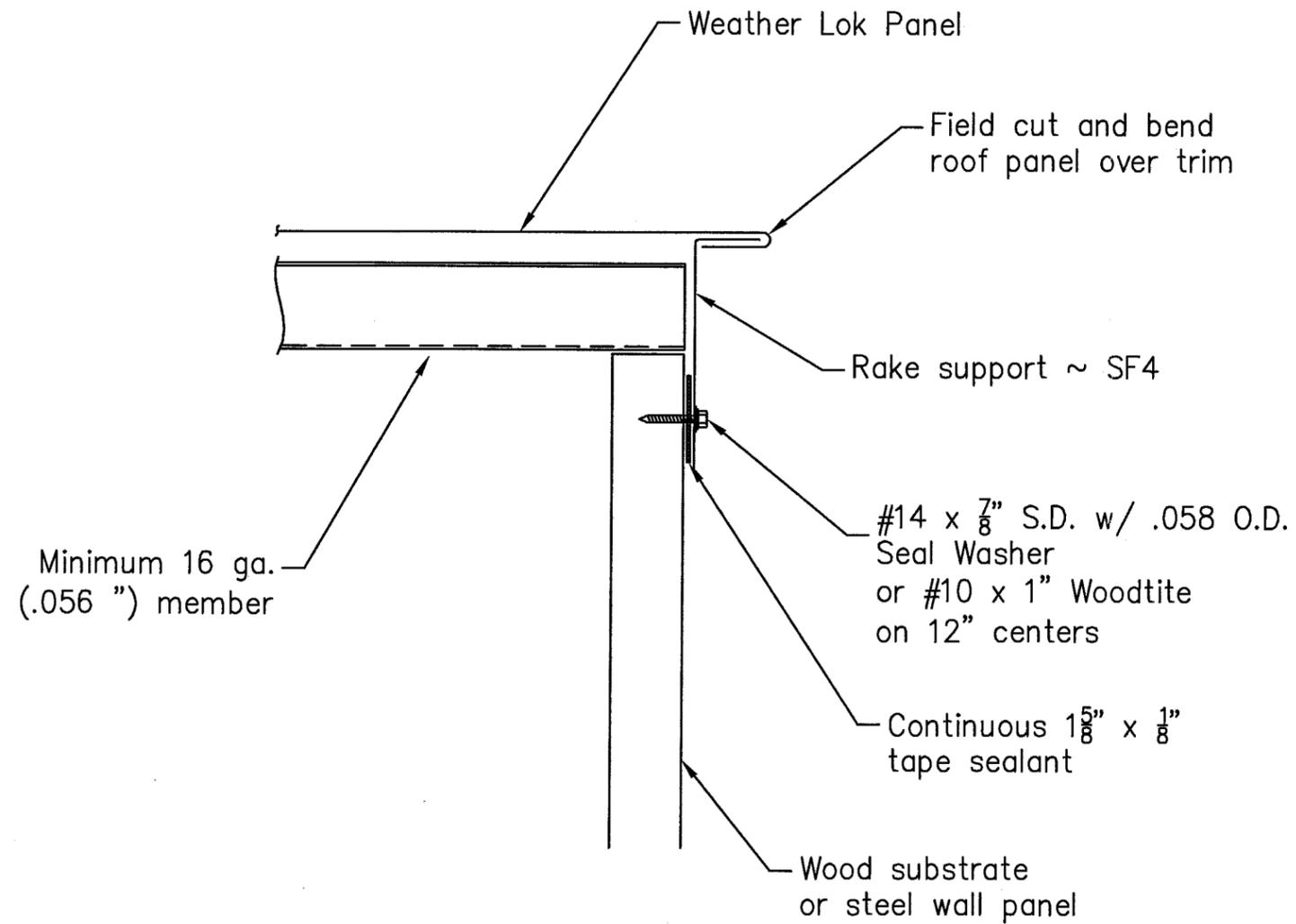
PROJECT  
 DADE COUNTY PRODUCT APPROVAL

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| REV. | BY | DESCRIPTION | DATE |
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| SHEET TITLE<br>WEATHER LOK 16-24 DETAILS | DRAWN BY                   | DATE<br>3-27-02        |
| LOCATION<br>DADE COUNTY, FLORIDA         | CHECKED BY                 | SCALE<br>N.T.S.        |
| PROJECT NUMBER                           | DRAWING NUMBER<br>14003502 | SHEET NUMBER<br>4 of 8 |

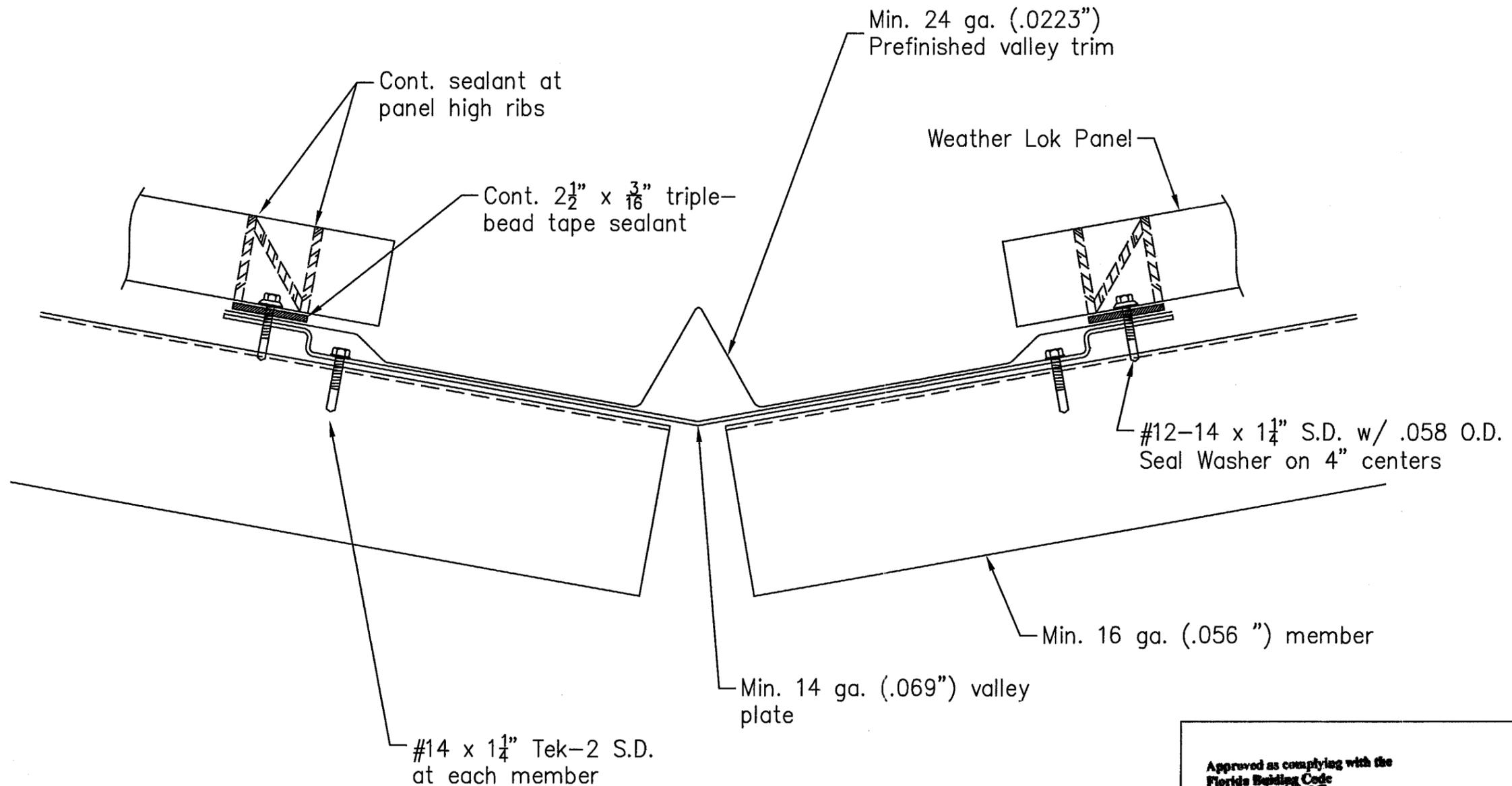


RAKE II

Approved as complying with the Florida Building Code  
 Date 03/08/03  
 NOAS 03-0308.01  
 Miami Code Product Control  
 Division  
 By *Terrence E. Wolfe*

|   |    |                |                             |
|---|----|----------------|-----------------------------|
| MANUFACTURING ENGINEER  |    |                |                             |
| TERRENCE E. WOLFE, P.E.   |    |                |                             |
| FLORIDA REGISTRATION NO.  |    |                |                             |
| 44923   |    |                |                             |
| WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24  |    |                |                             |
|  |    |                |                             |
| P.O. BOX 75280 • 8234 HANSEN HOUSTON, TX 77234-8280 • 713-846-7140                    |    |                |                             |
| PROJECT   |    |                |                             |
| DADE COUNTY PRODUCT APPROVAL  |    |                |                             |
| REV.  | BY | DESCRIPTION    | DATE                        |
|   |    |                |                             |
| DRAWN BY:   |    | DATE 3-27-02   |                             |
| CHECKED BY:   |    | SCALE N.T.S.   |                             |
| LOCATION  |    | PROJECT NUMBER | DRAWING NUMBER SHEET NUMBER |
| DADE COUNTY, FLORIDA  |    |                | 14003502 5 of 8             |

*Terrence Wolfe*  
 APR 03 2002



VALLEY

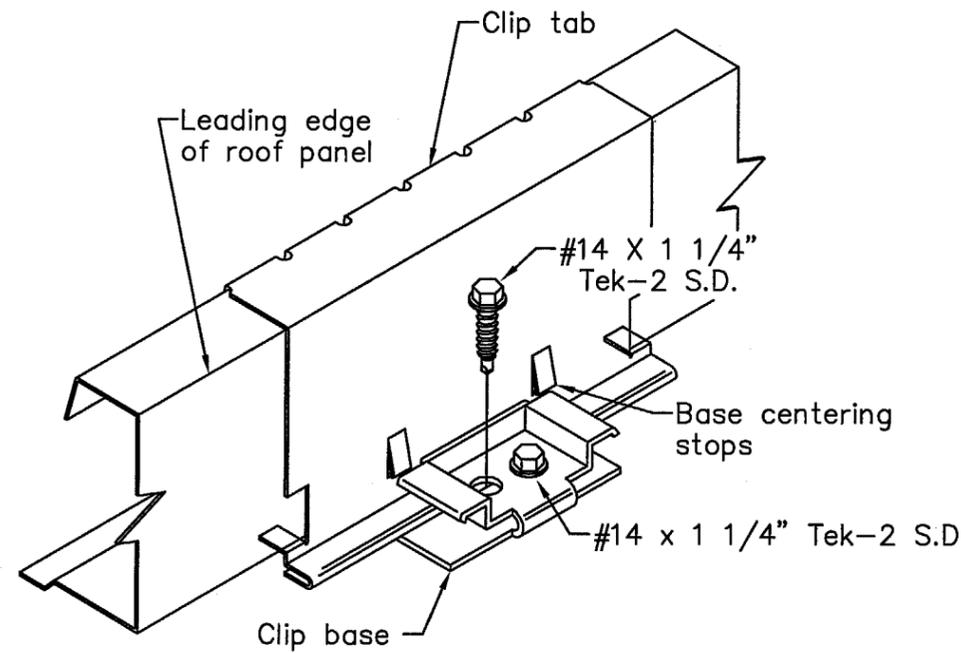
Approved as complying with the  
 Florida Building Code  
 Date 03/08/03  
 NOA# 03-0308.01  
 Miami Dade Product Control  
 Division  
 By *Cheridan Brown*

|   |    |                |                |
|---|----|----------------|----------------|
| MANUFACTURING ENGINEER  |    |                |                |
| TERRENCE E. WOLFE, P.E.   |    |                |                |
| FLORIDA REGISTRATION NO.  |    |                |                |
| 44923   |    |                |                |
| WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24  |    |                |                |
|  |    |                |                |
| P.O. BOX 75280 • 8234 HANSEN<br>HOUSTON, TX 77234-5280 • 713-946-7140                 |    |                |                |
| PROJECT   |    |                |                |
| DADE COUNTY PRODUCT APPROVAL  |    |                |                |
| REV.  | BY | DESCRIPTION    | DATE           |
|   |    |                |                |
| DRAWN BY:   |    | DATE           |                |
| WEATHER LOK 16-24 DETAILS   |    | 3-27-02        |                |
| CHECKED BY:   |    | SCALE          |                |
|   |    | N.T.S.         |                |
| LOCATION  |    | PROJECT NUMBER | DRAWING NUMBER |
| DADE COUNTY, FLORIDA  |    | 14003502       | SHEET NUMBER   |
|   |    |                | 6 of 8         |

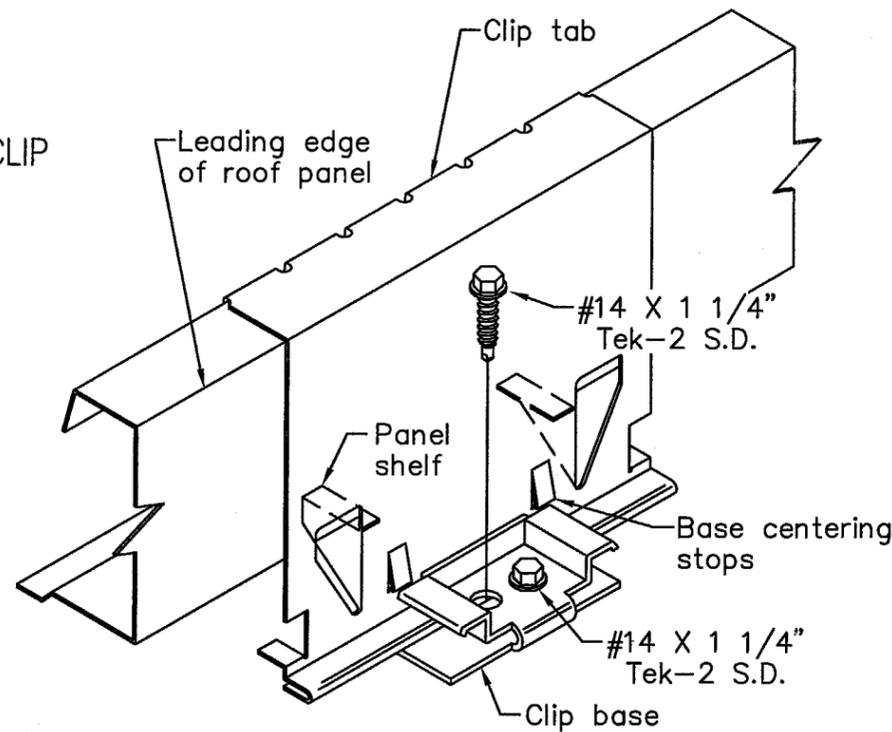
*Terrence Wolfe*  
 APR 03 2002

Notes:

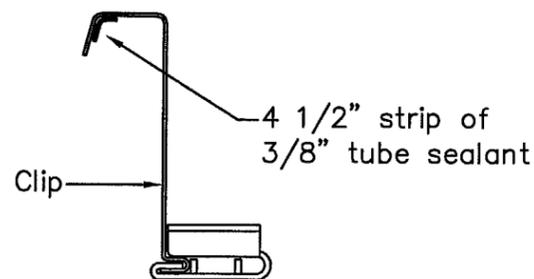
1. There are two types of clips that can be furnished with this roof system, the 3/8" stand-off and the 1-3/8" stand-off. Both of these are floating clips.
2. Thermal spacers are required with the 1-3/8" stand-off clip.
3. Apply a 4-1/2" strip of 3/8" x 3/32" tube sealant to the underside of each clip before installation per Detail "A".
4. Install panel clips along the male edge of the panel at each purlin location.
5. Attach clip to purlin with (2) #14 x 1-1/4" Tek-2 self-drilling screws per clip.



3/8" STAND-OFF CLIP  
WL-16 Low Clip  
(MC 120310)



1 3/8" STAND-OFF CLIP  
WL-16 High Clip  
(MC 121310)



DETAIL "A"

Approved as complying with the  
Florida Building Code  
Date: 02/08/03  
NOAR 03-0308.01  
Miami Code Product Control  
Division  
By: *Terrence E. Wolfe*

MANUFACTURING ENGINEER

TERRENCE E. WOLFE, P.E.

FLORIDA REGISTRATION NO.

44923

WHIRLWIND BUILDING SYSTEMS WEATHR LOK 16-24



PROJECT

DADE COUNTY PRODUCT APPROVAL

SHEET TITLE

WEATHER LOK 16-24 DETAILS

LOCATION

DADE COUNTY, FLORIDA

REV. BY

DESCRIPTION

DATE

DRAWN BY:

DATE 3-27-02

CHECKED BY:

SCALE N.T.S.

PROJECT NUMBER

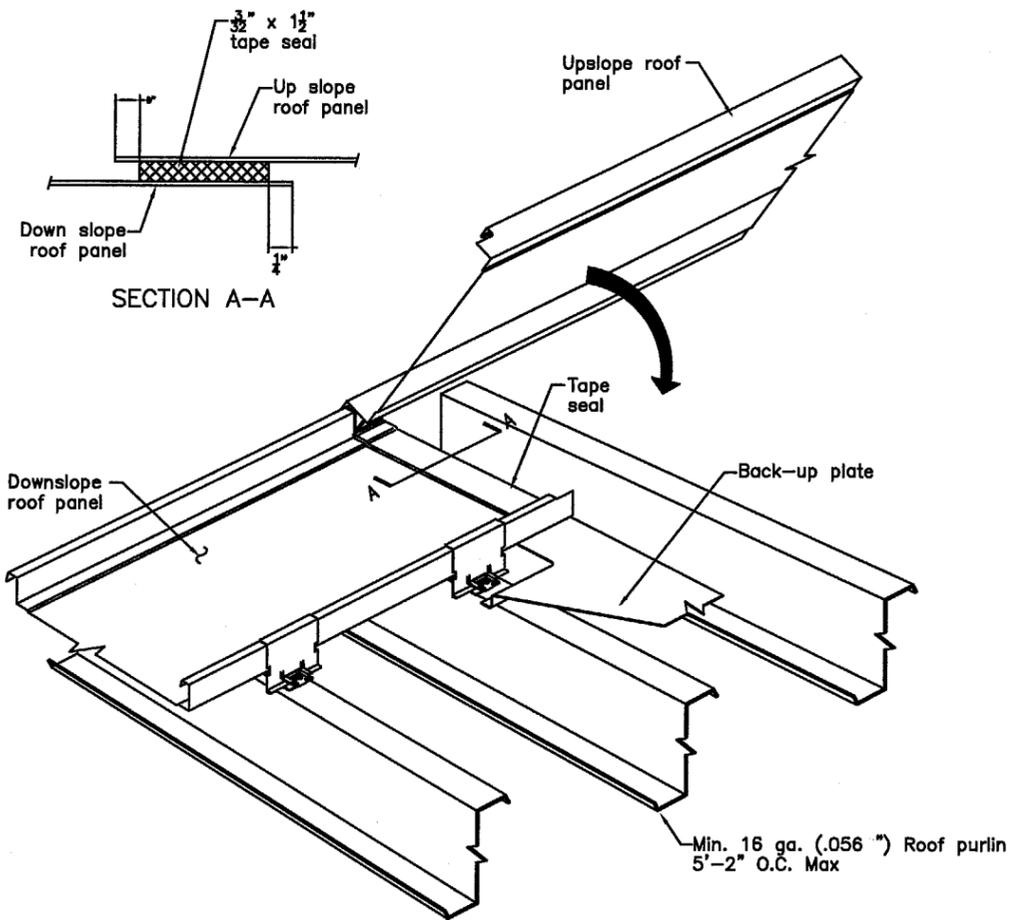
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SHEET NUMBER

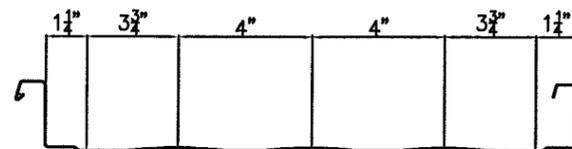
14003502

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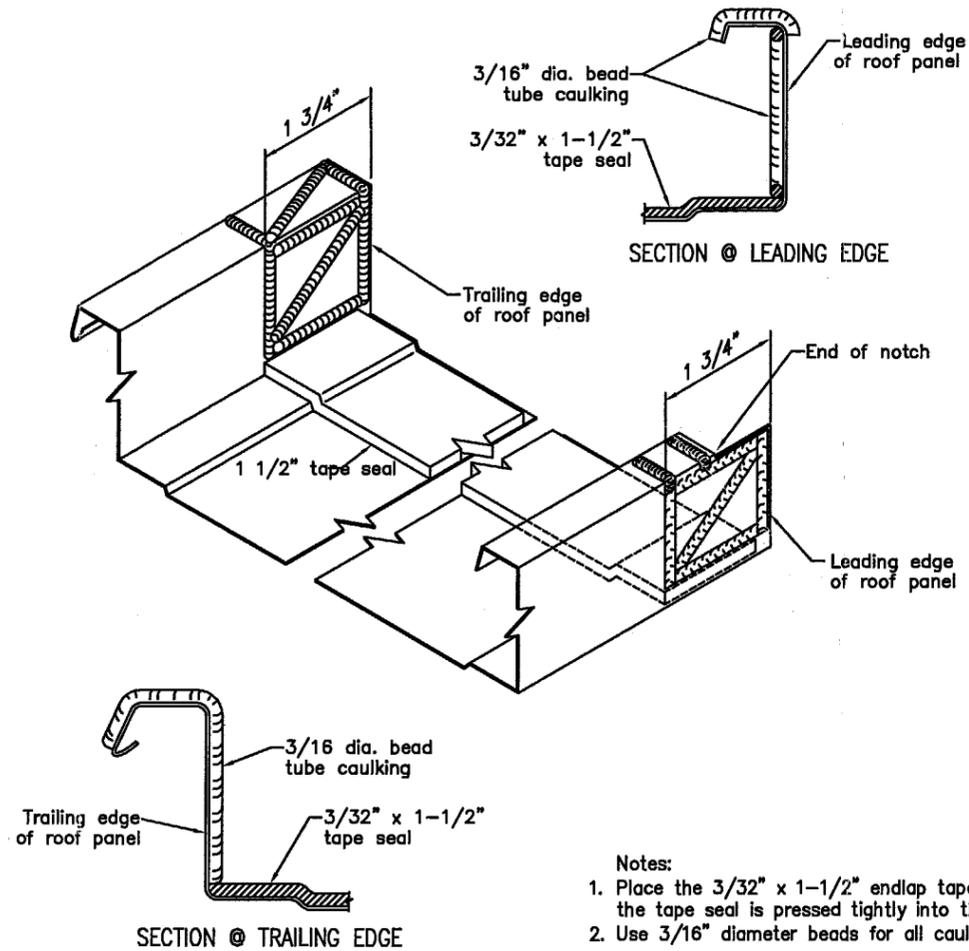
*Terrence E. Wolfe*  
APR 03 2002



- Notes:
1. Position the up slope panel so the total panel lap is 2".
  2. The endlap tape seal and the up slope panel are positioned so their edges are 1/4" apart. (See section above)
  3. When placing the up slope panel care must be taken to prevent moving or wiping the tape seal and caulking from the down slope panel.



LAP FASTENERS



- Notes:
1. Place the 3/32" x 1-1/2" endlap tape seal as shown in the above illustrations. Make sure the tape seal is pressed tightly into the panel bends and corners.
  2. Use 3/16" diameter beads for all caulking shown. Caulking can not have any gaps.

Approved as complying with the  
 Florida Building Code  
 Date: 02/08/03  
 NOAS 03-0308.01  
 Miami Code Product Control  
 Division  
 By: *Terrence E. Wolfe*

MANUFACTURING ENGINEER  
 TERRENCE E. WOLFE, P.E.

FLORIDA REGISTRATION NO.  
 44923

WHIRLWIND BUILDING SYSTEMS WEATHER LOK 16-24

**WHIRLWIND BUILDING SYSTEMS**  
 P.O. BOX 75280 • 8234 HANSEN  
 HOUSTON, TX 77234-5280 • 713-946-7140

PROJECT  
 DADE COUNTY PRODUCT APPROVAL

SHEET TITLE  
 WEATHER LOK 16-24 DETAILS

LOCATION  
 DADE COUNTY, FLORIDA

| REV. | BY | DESCRIPTION | DATE |
|------|----|-------------|------|
|      |    |             |      |
|      |    |             |      |
|      |    |             |      |

DATE 3-27-02  
 SCALE N.T.S.  
 DRAWING NUMBER 14003502  
 SHEET NUMBER 8 of 8

*Terrence E. Wolfe*  
 APR 03 2002