



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  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

N.R. Architectural Products, Inc.  
4348 Westroads Drive  
West Palm Beach, FL 33407

**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: Series "NRAP 2500-CO" Outswing Aluminum Casement Window – S.M.I.**

**APPROVAL DOCUMENT:** Drawing No. AD12-08, titled "Series NRAP 2500-CO Casement Out Window (S.M.I.)", sheets 1 through 9 of 9, dated 02/23/12, with revision #1 dated 06/14/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., 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 Section.

**MISSILE IMPACT RATING: 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 revises NOA# 09-0519.04 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



*Handwritten signature and date: MP 7/2/13*

NOA No. 12-0619.04  
Expiration Date: August 19, 2014  
Approval Date: July 11, 2013  
Page 1

**N.R. Architectural Products, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **AD12-08**, titled "Series NRAP 2500-CO Casement Out Window (S.M.I.)", sheets 1 through 9 of 9, dated 02/23/12, with revision#1 dated 06/14/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Small Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of casement out & fixed window system, prepared by Hurricane Testing Laboratory, Inc., Test Report No. **HTL 0242-0301-09**, dated 04/07/09, signed and sealed by Vinu J. Abraham, P. E.  
*(Submitted under previous NOA# 09-0519.04)*

**C. CALCULATIONS**

1. Anchor calculations and structural analysis, complying with FBC-2010, dated 06/04/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
2. Glazing complies with ASTM E1300-04

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.
3. Notice of Acceptance No. **12-1231.10** issued to **Eastman Chemical Company (MA)** for their "**Saflex Clear and Color Glass Interlayers**" dated 03/28/13, expiring on 05/21/16.
4. TREMCO Part No. **TR-PS1126E** EPDM exterior glazing gasket complying with ASTM C864 Option II exceptions, ASTM D412 1600 PSI, D395B 22 HRS 158°F.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 12-0619.04

Expiration Date: August 19, 2014  
Approval Date: July 11, 2013

N.R. Architectural Products, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**F. STATEMENTS**

1. Statement letter of conformance, complying with FBC-2010, dated June 04, 2012, issued by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
2. Statement letter of no financial interest, dated June 04, 2012, issued by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
3. Laboratory compliance letter for Test Report No. **HTL 0242-0301-09**, issued by Hurricane Test Laboratory, Inc., dated April 23, 2009, signed and sealed by Vinu J. Abraham, P.E.  
*(Submitted under previous NOA# 09-0519.04)*
4. Notification of Successor Engineer for manufacturer's NOA document per **Section 61G15-27.001** of the **Florida Administrative Code**, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated April 24, 2012, signed and sealed by Yiping Wang, P.E.

**G. OTHER**

1. Notice of Acceptance No. **09-0519.04**, issued to NR Architectural Products for their Series "NRAP 2500-CO" Outswing Aluminum Casement Window – S.M.I., approved on 08/19/09 and expiring on 08/19/14.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 12-0619.04  
Expiration Date: August 19, 2014  
Approval Date: July 11, 2013

**GENERAL NOTES: FLORIDA BUILDING CODE**

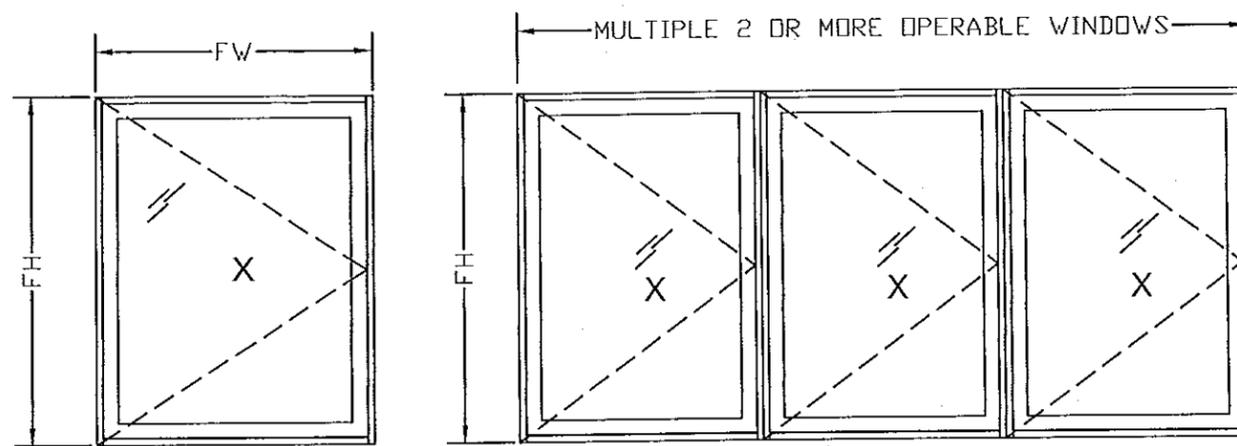
- 1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2- DEFINITION: THIS PRODUCT IS A CASEMENT OUT TYPE WINDOW DESIGNED, CONSTRUCTED AND TESTED TO PROVIDE PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (SMALL MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL. INSTALLATION BELOW 30 FEET ELEVATION IT WILL REQUIRE APPROVED HURRICANE PROTECTION DEVICES.
- 3- POSTING:
  - 'NR ARCHITECTURAL PRODUCTS, INC.  
WEST PALM BEACH - FLORIDA  
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED'
- 4- DESIGN LOADS: THE DESIGNED LOADS MUST BE CALCULATED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE WINDOW PRESSURE.
- 5- MATERIAL: GLAZING TO BE IMPACT LAMINATED GLASS AS SPECIFIED ON THIS APPROVAL.
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR QUANTITY & SPACING MUST NOT EXCEED THE MAXIMUM LIMITS SPECIFIED BY THIS APPROVAL.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
  - 7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
  - 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
  - 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.
- 8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL, HOWEVER, WOOD SCREWS WITH 1.6 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED.
- 9- DISSIMILAR MATERIALS: MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, THAT COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2010 FLORIDA BUILDING CODE.

FOR ALLOWABLE SIZES AND PRESSURES REFER TO:  
SHEETS 2 AND 3

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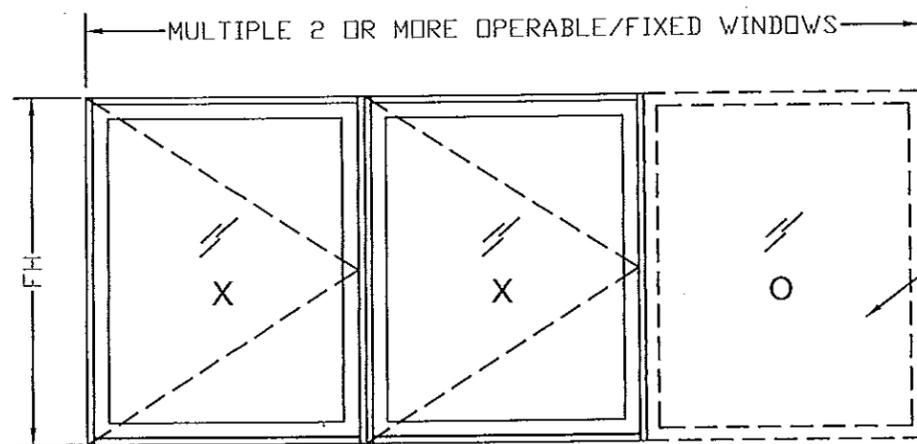
PRODUCT NOT TO BE INSTALLED BELOW 30 FEET ELEVATION  
WITHOUT HURRICANE PROTECTION DEVICES

**TYPICAL ELEVATIONS**



(X) SINGLE CASEMENT OUT WINDOW  
SEE SHEET 2 FOR RATING

(XX, XXX, XXXn)  
MULTIPLE CASEMENT OUT WINDOWS  
SEE SHEET 3 FOR RATING



(XO, XOx, OXO, OXXOXn)  
MULTIPLE COMBINATION OF CASEMENT OUT AND FIXED WINDOWS  
SEE SHEET 3 FOR RATING

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PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0619-04  
Expiration Date Aug. 19, 2014  
By *Manuel Perez*  
Miami Dade Product Control

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677

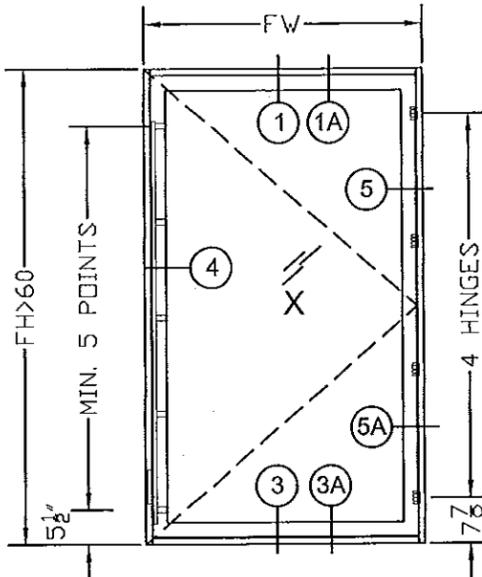
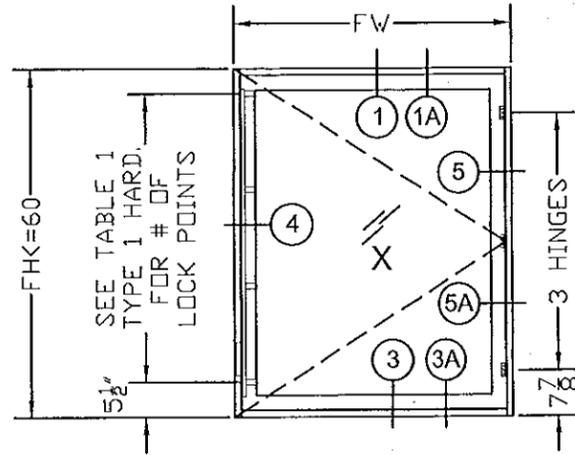
*Yiping Wang*

| <p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NO</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>06/14/12</td> <td>UPDATED FOR FBC 2010</td> </tr> </tbody> </table>   | NO       | DATE                 | DESCRIPTION | 1        | 06/14/12 | UPDATED FOR FBC 2010 | <p><b>MCY ENGINEERING, INC.</b><br/>GLAZING CONSULTANTS</p> <p>8501 SW 124 AVE. STE. 205A<br/>MIAMI, FL 33183</p> <p>P: 305.271.0117<br/>F: 786.573.5063</p> <p>www.MCYEngineering.com<br/>www.MCYEngineering@Att.net</p> | <p>SERIES NRAP 2500-CO CASEMENT OUT WINDOW (S.M.I.)</p> <p>NR ARCHITECTURAL PRODUCTS</p> <p>4348 WESTROADS DRIVE<br/>WEST PALM BEACH, FL 33407<br/>P: (561) 844-1121 F: (561) 844-6131</p> |         |        |             |  |         |  |              |  |  |  |  |  |
|--|----------|----------------------|-------------|----------|----------|----------------------|---|--|---------|--------|-------------|--|---------|--|--------------|--|--|--|--|--|
| NO   | DATE     | DESCRIPTION          |             |          |          |                      |   |  |         |        |             |  |         |  |              |  |  |  |  |  |
| 1  | 06/14/12 | UPDATED FOR FBC 2010 |             |          |          |                      |   |  |         |        |             |  |         |  |              |  |  |  |  |  |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">DATE</td> <td style="width: 15%;">02-23-12</td> <td style="width: 15%;">SCALE</td> <td style="width: 15%;">AS NOTED</td> <td style="width: 15%;">DRAWN</td> <td style="width: 15%;">S.L.</td> </tr> <tr> <td>PROJECT</td> <td>12-028</td> <td colspan="2">DRAWING NO.</td> <td colspan="2">AD12-08</td> </tr> <tr> <td colspan="6" style="text-align: right;">SHEET 1 of 9</td> </tr> </table> |          |                      | DATE        | 02-23-12 | SCALE    | AS NOTED             | DRAWN   | S.L.   | PROJECT | 12-028 | DRAWING NO. |  | AD12-08 |  | SHEET 1 of 9 |  |  |  |  |  |
| DATE   | 02-23-12 | SCALE                | AS NOTED    | DRAWN    | S.L.     |                      |   |  |         |        |             |  |         |  |              |  |  |  |  |  |
| PROJECT  | 12-028   | DRAWING NO.          |             | AD12-08  |          |                      |   |  |         |        |             |  |         |  |              |  |  |  |  |  |
| SHEET 1 of 9   |          |                      |             |          |          |                      |   |  |         |        |             |  |         |  |              |  |  |  |  |  |

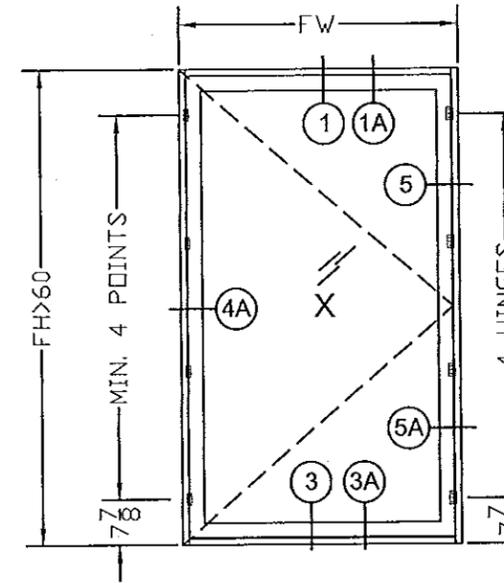
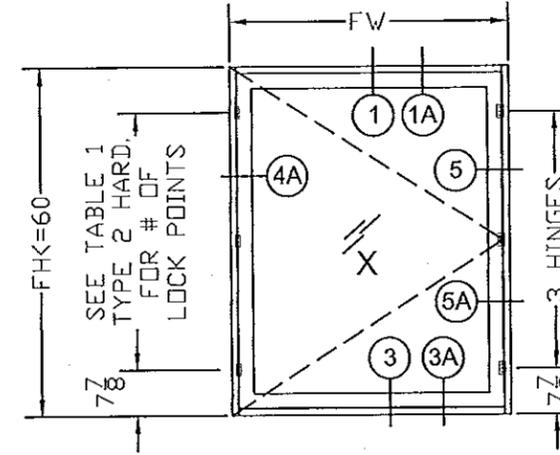
TABLE 1  
DESIGNED RATING FOR  
SINGLE CASEMENT OUT UNITS (PSF)

| MAX. FW | FRAME FH | HARDWARE TYPE 1 |         |             | HARDWARE TYPE 2 |         |             |
|---------|----------|-----------------|---------|-------------|-----------------|---------|-------------|
|         |          | EXT (+)         | INT (-) | LOCK POINTS | EXT (+)         | INT (-) | LOCK POINTS |
| 32      | 38       | 120             | 120     | 3           | 120             | 120     | 3           |
|         | 42       | 120             | 120     | 3           | 120             | 120     | 3           |
|         | 48       | 120             | 120     | 4           | 120             | 120     | 3           |
|         | 54       | 117             | 117     | 4           | 120             | 120     | 3           |
|         | 60       | 101             | 101     | 4           | 120             | 120     | 3           |
|         | 66       | 89              | 89      | 5           | 118             | 118     | 4           |
|         | 72       | 79              | 79      | 5           | 105             | 105     | 4           |
| 38.75   | 38       | 120             | 120     | 3           | 120             | 120     | 3           |
|         | 42       | 120             | 120     | 3           | 120             | 120     | 3           |
|         | 48       | 120             | 120     | 4           | 120             | 120     | 3           |
|         | 54       | 106             | 106     | 4           | 120             | 120     | 3           |
|         | 60       | 90              | 90      | 4           | 120             | 120     | 3           |
|         | 66       | 78              | 78      | 5           | 86              | 86      | 4           |
|         | 72       | 69              | 69      | 5           | 78              | 78      | 4           |
| 44      | 38       | 105             | 105     | 3           | 105             | 105     | 3           |
|         | 42       | 101             | 101     | 3           | 101             | 101     | 3           |
|         | 48       | 101             | 101     | 4           | 101             | 101     | 3           |
|         | 54       | 92              | 92      | 4           | 92              | 92      | 3           |
|         | 60       | 83              | 83      | 4           | 83              | 83      | 3           |
|         | 66       | 73              | 73      | 5           | 75              | 75      | 4           |
|         | 72       | 69              | 69      | 5           | 78              | 78      | 4           |
| 48.625  | 38       | 80              | 80      | 3           | 80              | 80      | 3           |
|         | 42       | 77              | 77      | 3           | 77              | 77      | 3           |
|         | 48       | 75              | 75      | 4           | 75              | 75      | 3           |
|         | 54       | 75              | 75      | 4           | 75              | 75      | 3           |
|         | 60       | 75              | 75      | 4           | 75              | 75      | 3           |
| 54      | 38       | 50              | 50      | 3           | 50              | 50      | 3           |
|         | 42       | 47              | 47      | 3           | 47              | 47      | 3           |
|         | 48       | 45              | 45      | 4           | 45              | 45      | 3           |
|         | 54       | 44              | 44      | 4           | 44              | 44      | 3           |

FW- FRAME WIDTH IN INCHES  
FH- FRAME HEIGHT IN INCHES  
PRESSURES IN PSF  
SEE ELEVATIONS ON THE RIGHT SIDE FOR HARDWARE TYPE  
DLO= FH-7.5" OR FW-7.5"



(X) SINGLE CASEMENT OUT WINDOW WITH HARDWARE TYPE 1 MULTIPOINT LOCK (ADVANTAGE OR ROTO) 3-1/4" BUTT HINGE ADVANTAGE 1192



(X) SINGLE CASEMENT OUT WINDOW WITH HARDWARE TYPE 2 BRONZECRAFT CAMLOCK 3-1/4" BUTT HINGE ADVANTAGE 1192

JUN 14 2012

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0619.04  
Expiration Date Aug 19, 2014  
By *Manuel Cruz*  
Miami Dade Product Control

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677

*Yip Wang*

| NO. | DATE     | DESCRIPTION          |
|-----|----------|----------------------|
| 1   | 06/14/12 | UPDATED FOR FBC 2010 |

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
8501 SW 124 AVE. STE. 205A  
MIAMI, FL 33183  
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**NR ARCHITECTURAL PRODUCTS**  
4348 WESTROADS DRIVE  
WEST PALM BEACH, FL 33407  
P: (561) 844-1121 F: (561) 844-6131

|         |          |
|---------|----------|
| DATE    | 02-23-12 |
| SCALE   | AS NOTED |
| DRAWN   | S.L.     |
| PROJECT | 12-026   |

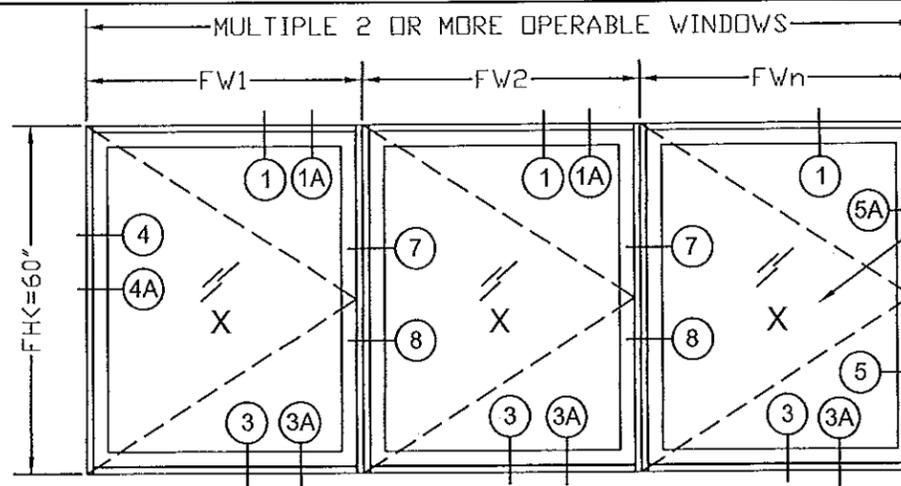
DRAWING NO.  
AD12-08

SHEET 2 of 9

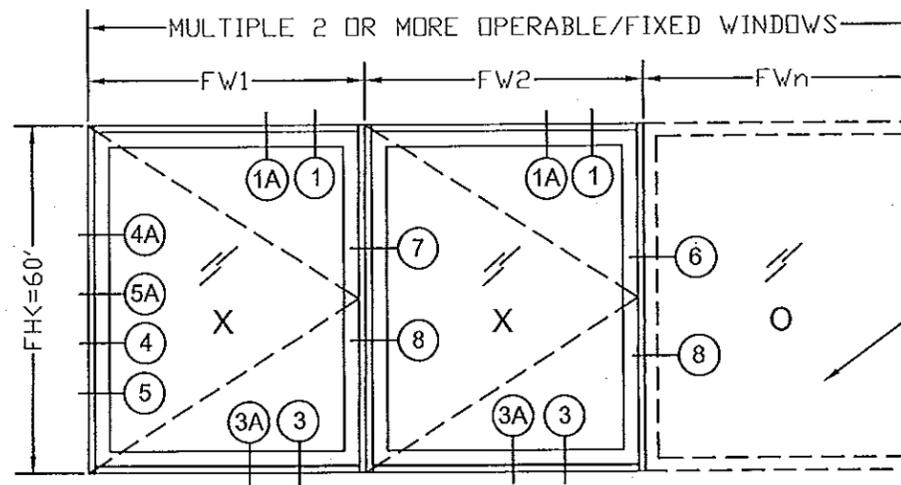
**TABLE 2  
DESIGNED RATING FOR MULLION S ON  
MULTIPLE CASEMENT OR/AND FIXED UNITS (PSF)**

| TM     | FH | MULL TYPE 6 |         | MULL TYPE 7 |         | MULL TYPE 8 |         |
|--------|----|-------------|---------|-------------|---------|-------------|---------|
|        |    | EXT (+)     | INT (-) | EXT (+)     | INT (-) | EXT (+)     | INT (-) |
| 32     | 38 | 120.0       | 120.0   | 120.0       | 120.0   | 120.0       | 120.0   |
|        | 42 | 120.0       | 120.0   | 120.0       | 120.0   | 120.0       | 120.0   |
|        | 48 | 120.0       | 120.0   | 120.0       | 120.0   | 115.0       | 115.0   |
|        | 54 | 120.0       | 120.0   | 116.5       | 116.5   | 97.0        | 97.0    |
|        | 60 | 120.0       | 120.0   | 100.6       | 100.6   | 83.9        | 83.9    |
| 38.75  | 38 | 120.0       | 120.0   | 120.0       | 120.0   | 120.0       | 120.0   |
|        | 42 | 120.0       | 120.0   | 120.0       | 120.0   | 120.0       | 120.0   |
|        | 48 | 120.0       | 120.0   | 120.0       | 120.0   | 106.0       | 106.0   |
|        | 54 | 120.0       | 120.0   | 105.6       | 105.6   | 88.0        | 88.0    |
|        | 60 | 120.0       | 120.0   | 90.0        | 90.0    | 75.0        | 75.0    |
| 44     | 38 | 120.0       | 120.0   | 120.0       | 120.0   | 120.0       | 120.0   |
|        | 42 | 120.0       | 120.0   | 120.0       | 120.0   | 120.0       | 120.0   |
|        | 48 | 120.0       | 120.0   | 120.0       | 120.0   | 103.0       | 103.0   |
|        | 54 | 120.0       | 120.0   | 100.6       | 100.6   | 83.9        | 83.9    |
|        | 60 | 111.2       | 111.2   | 83.4        | 83.4    | 75.0        | 75.0    |
| 48.625 | 38 | 120.0       | 120.0   | 120.0       | 120.0   | 120.0       | 120.0   |
|        | 42 | 120.0       | 120.0   | 120.0       | 120.0   | 120.0       | 120.0   |
|        | 48 | 120.0       | 120.0   | 120.0       | 120.0   | 102.0       | 102.0   |
|        | 54 | 120.0       | 120.0   | 98.1        | 98.1    | 81.8        | 81.8    |
|        | 60 | 105.4       | 105.4   | 79.1        | 79.1    | 75.0        | 75.0    |
| 54     | 38 | 120.0       | 120.0   | 120.0       | 120.0   | 120.0       | 120.0   |
|        | 42 | 120.0       | 120.0   | 120.0       | 120.0   | 120.0       | 120.0   |
|        | 48 | 120.0       | 120.0   | 120.0       | 120.0   | 102.0       | 102.0   |
|        | 54 | 120.0       | 120.0   | 97.2        | 97.2    | 81.0        | 81.0    |

TW- MAXIMUM TRIBUTARY MODULE WIDTH IN INCHES  
FH- MAXIMUM FINISHED HEIGHT IN INCHES  
PRESSURES IN PSF  
DL0= FH-7.5" OR FW-7.5"

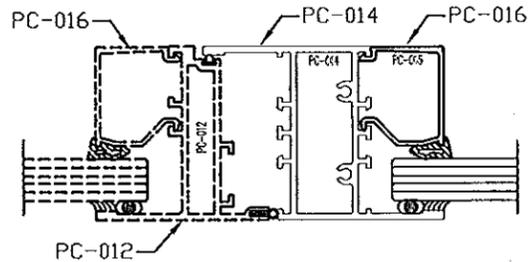


$TM = (FW1 + FW2)/2$

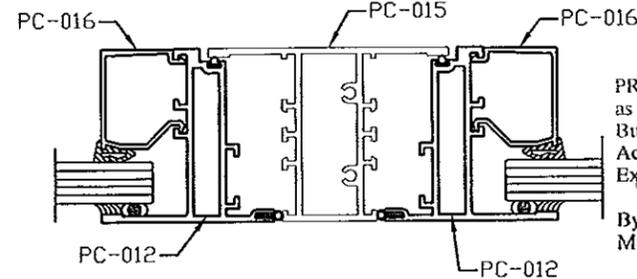


$TM = (FW1 + FW2)/2$

⑥ MULLION 6  
FIXED-CASEMENT

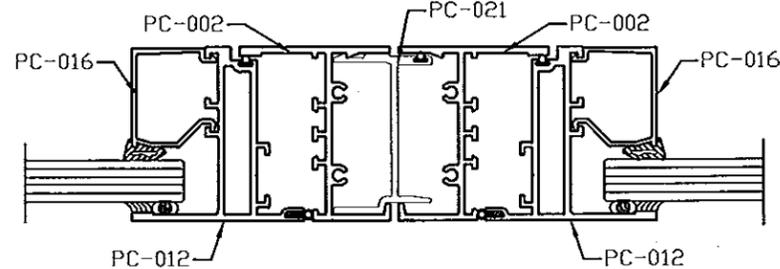


⑦ MULLION 7  
CASEMENT-CASEMENT

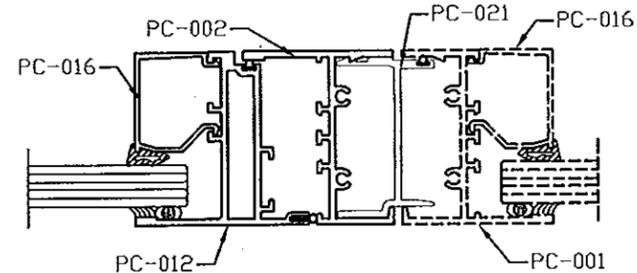


PRODUCT REVISED  
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By Manuel Perez  
Miami Dade Product Control

⑧ MULLION 8  
CASEMENT - CASEMENT



⑧ MULLION 8  
FIXED-CASEMENT



JUN 14 2012

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677

*Yiping Wang*

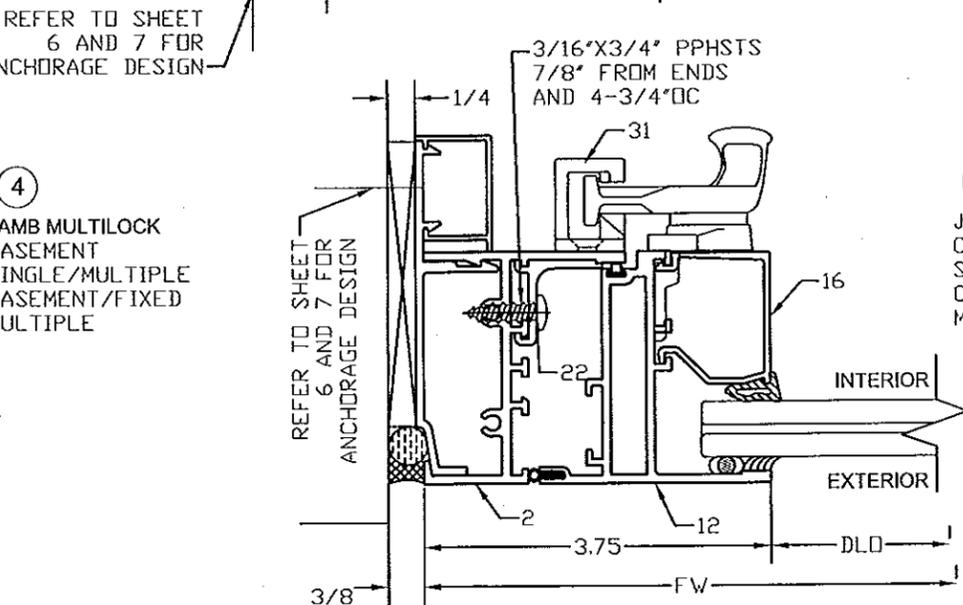
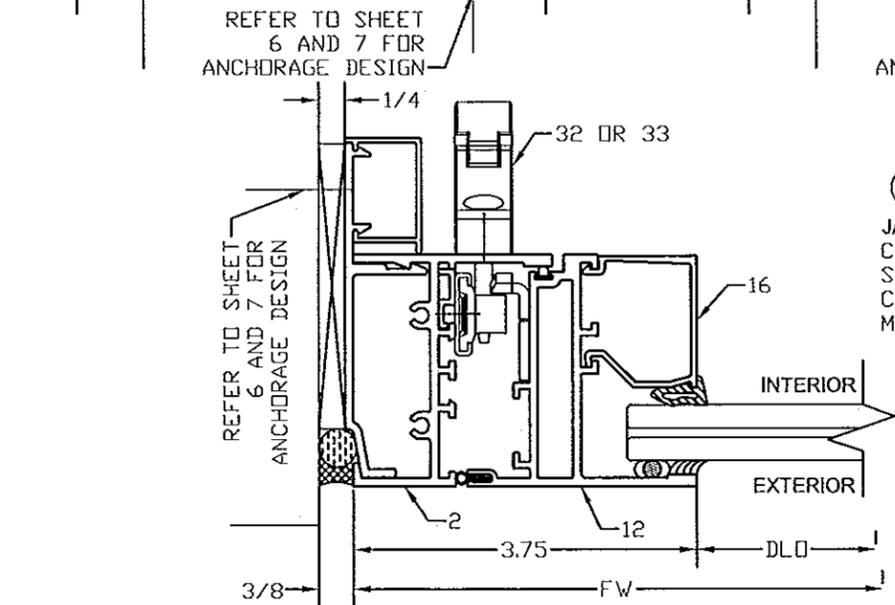
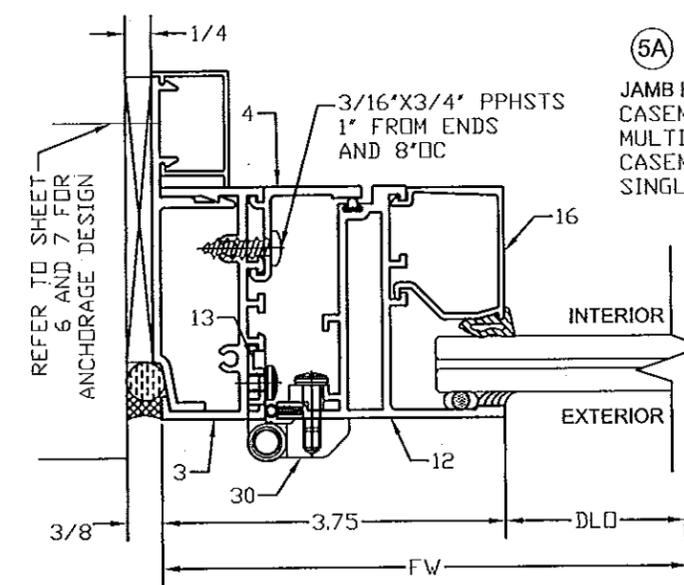
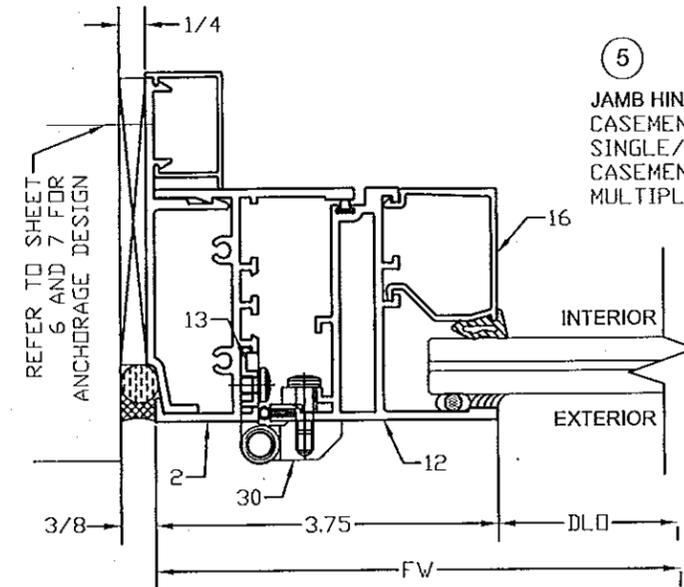
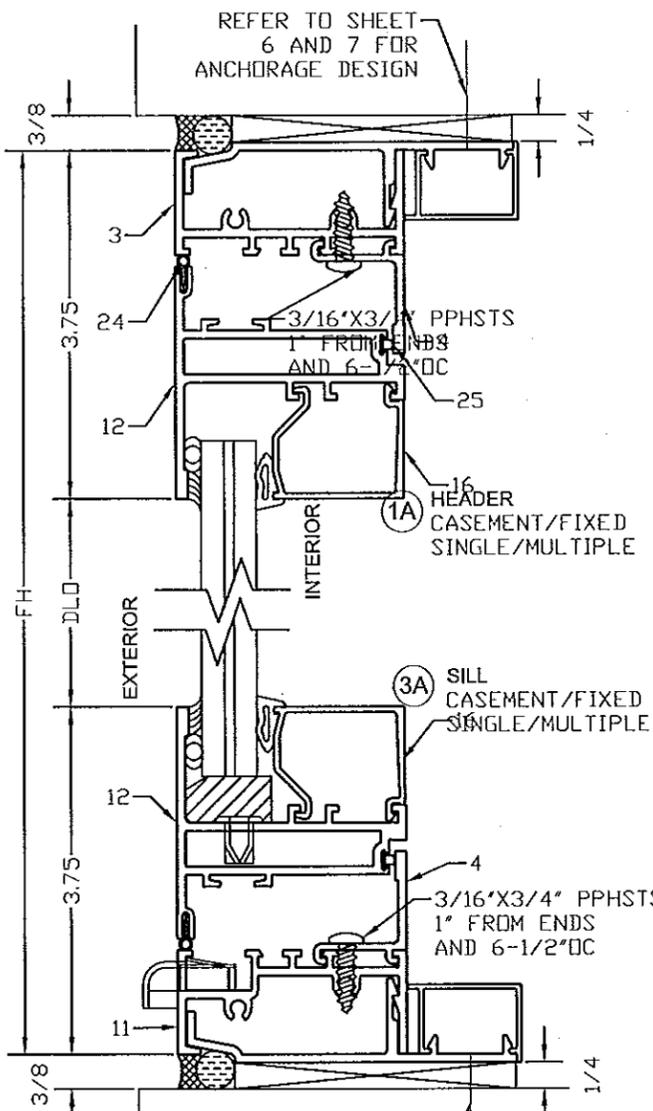
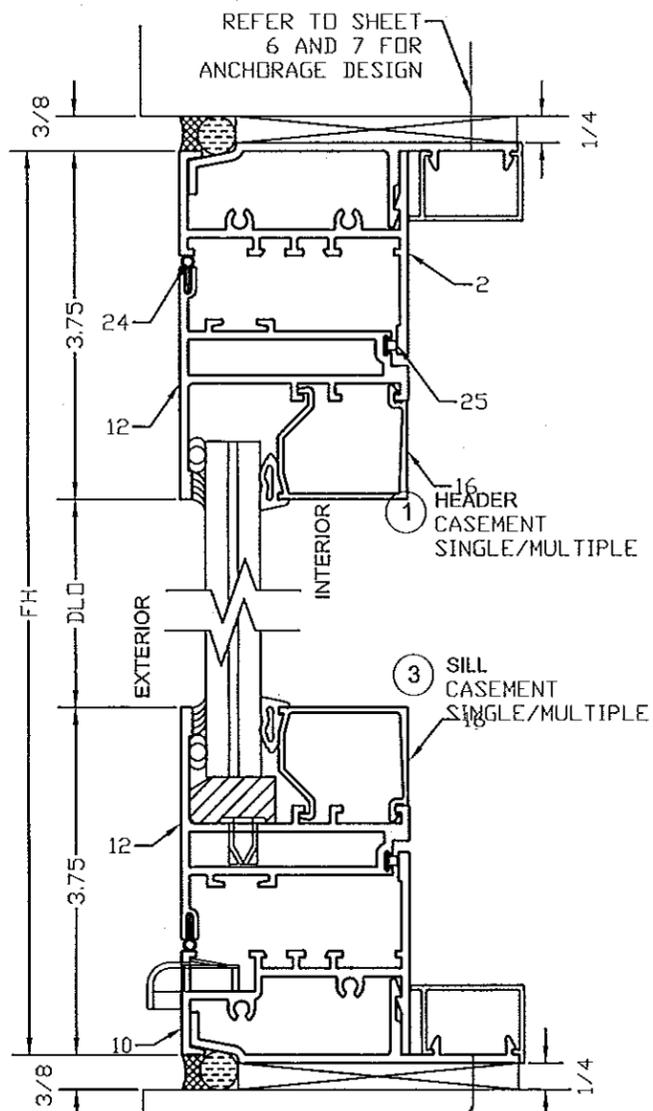
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| 1   | 06/14/12 | UPDATED FOR R3C 2010 |

**MCY ENGINEERING, INC.**  
GLAZING CONSULTANTS  
8501 SW 124 AVE. STE. 205A  
MIAMI, FL 33193  
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www.MCYEngineering.com  
MCY.Engineering@Att.net

SERIES NRAP 2500-CO CASEMENT OUT WINDOW (S.M.I.)  
**NR ARCHITECTURAL PRODUCTS**  
4348 WESTROADS DRIVE  
WEST PALM BEACH, FL 33407  
P: (561) 844 - 1121 F: (561) 844 - 6131

|             |          |
|-------------|----------|
| DATE        | 02-23-12 |
| SCALE       | AS NOTED |
| DRAWN       | S.L.     |
| PROJECT     | 12-028   |
| DRAWING NO. | AD12-08  |
| SHEET       | 3 of 9   |

TYPICAL DETAILS



5  
JAMB HINGE  
CASEMENT  
SINGLE/MULTIPLE  
CASEMENT/FIXED  
MULTIPLE

5A  
JAMB HINGE  
CASEMENT/FIXED  
MULTIPLE  
CASEMENT  
SINGLE/MULTIPLE

4  
JAMB MULTILOCK  
CASEMENT  
SINGLE/MULTIPLE  
CASEMENT/FIXED  
MULTIPLE

4A  
JAMB CAM LOCK  
CASEMENT  
SINGLE/MULTIPLE  
CASEMENT/FIXED  
MULTIPLE

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0619-04  
Expiration Date Aug 19 2014  
By *Manuel Sres*  
Miami Dade Product Control

JUN 14 2012

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677  
*Yip Wang*

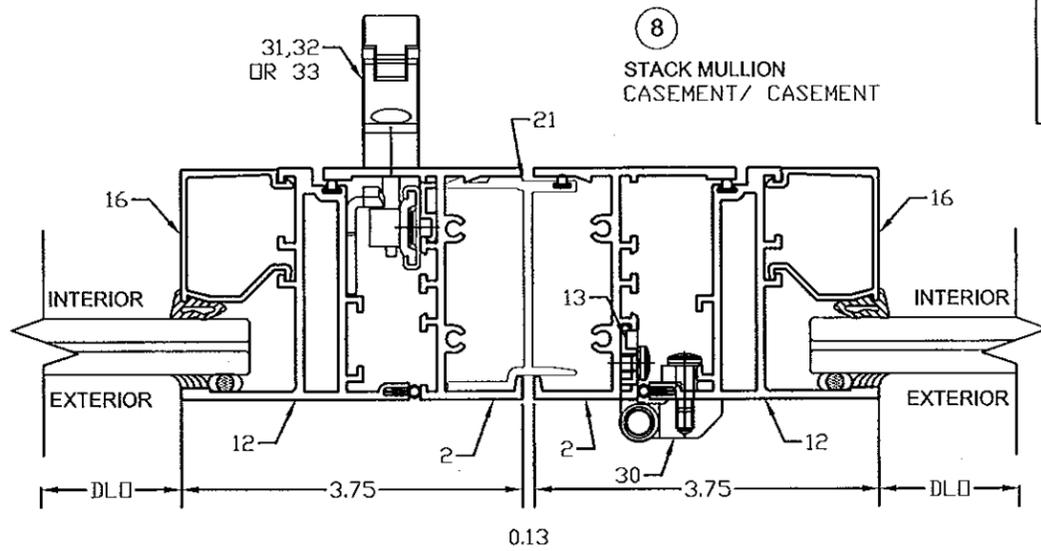
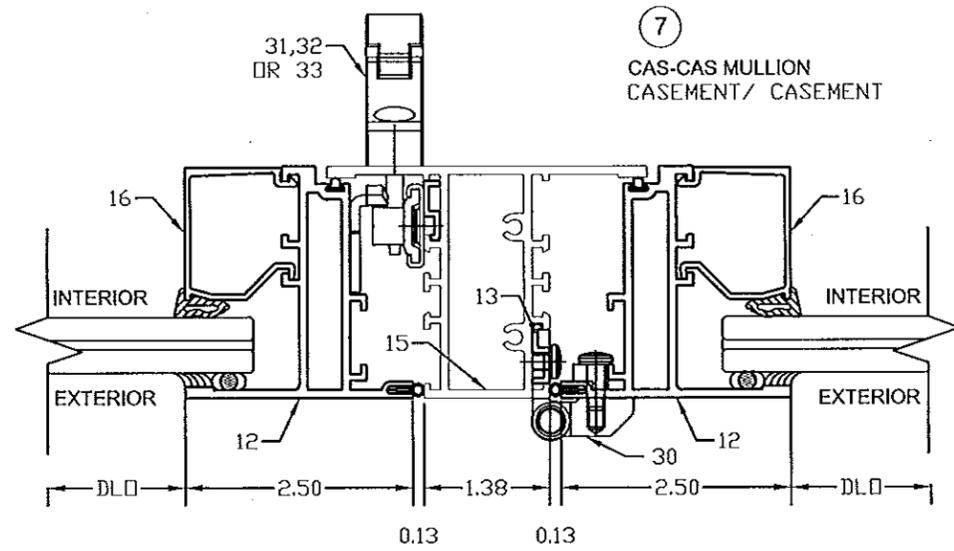
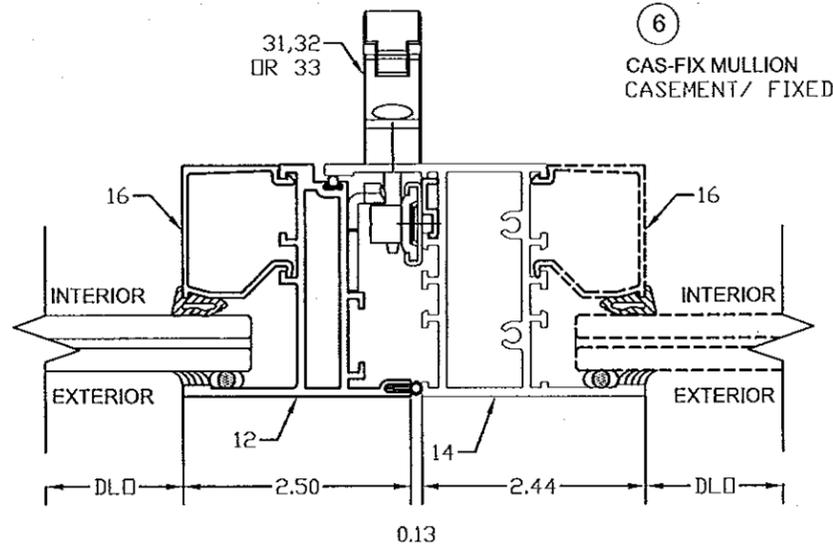
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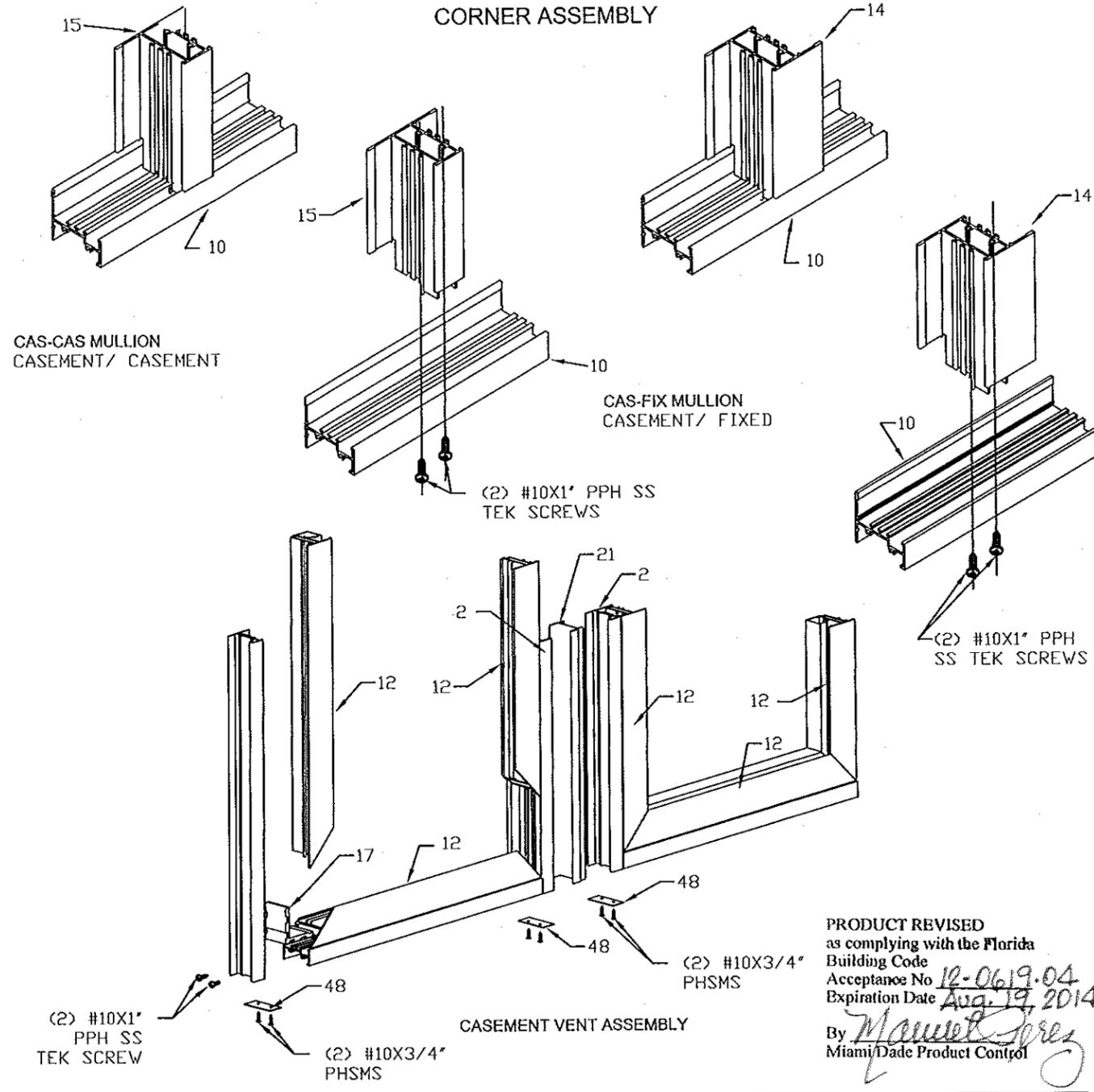
NR ARCHITECTURAL PRODUCTS  
SERIES NRAP 2500-CO CASEMENT OUT WINDOW (S.M.I.)  
4948 WESTROADS DRIVE  
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| DRAWING NO. | AD12-08  |
| SHEET       | 4 of 9   |

TYPICAL DETAILS



CORNER ASSEMBLY



PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No. 12-0619-04  
 Expiration Date Aug. 19, 2014  
 By *Manuel Jerez*  
 Miami Dade Product Control

⑧ STACK MULLION FIXED/ CASEMENT

JUN 14 2012  
 YIPING WANG, P.E.  
 FLORIDA REGISTRATION  
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*Yi Wang*

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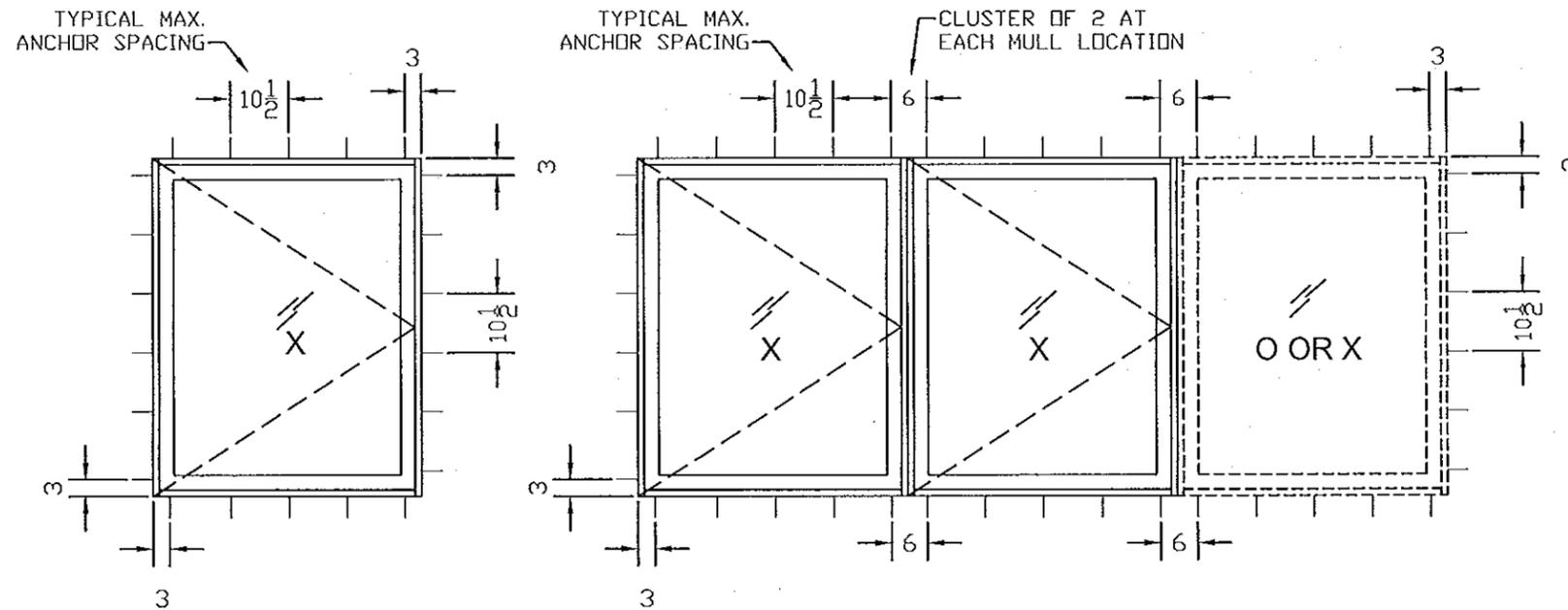
SERIES NRAP 2500-CO CASEMENT OUT WINDOW (S.M.I.)

**NR ARCHITECTURAL PRODUCTS**

4348 WESTROADS DRIVE  
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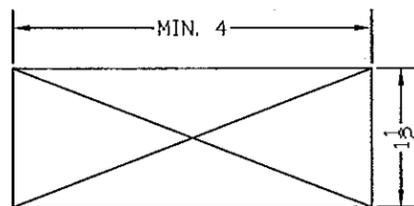
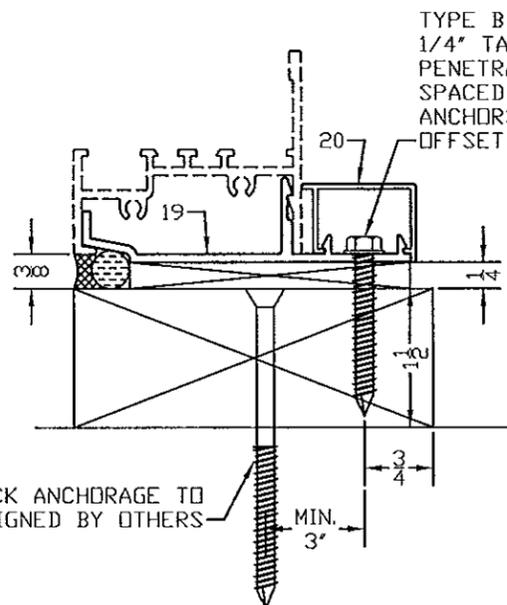
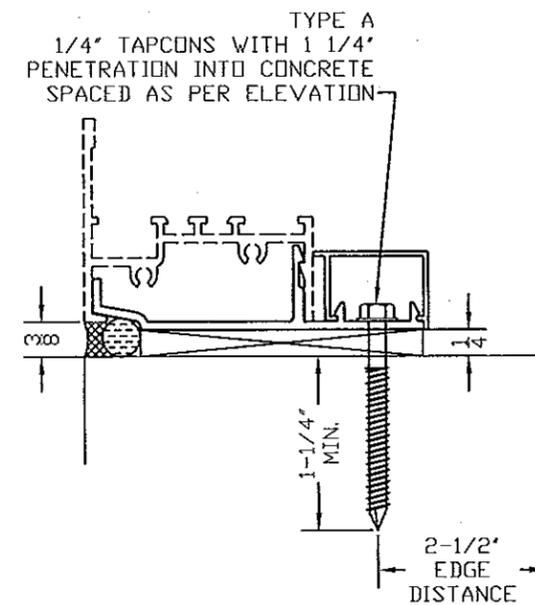
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| PROJECT      | 12-028   |
| DRAWING NO.  | AD12-08  |
| SHEET 5 of 9 |          |

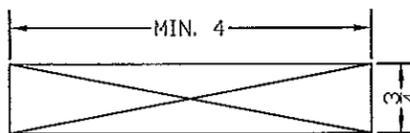
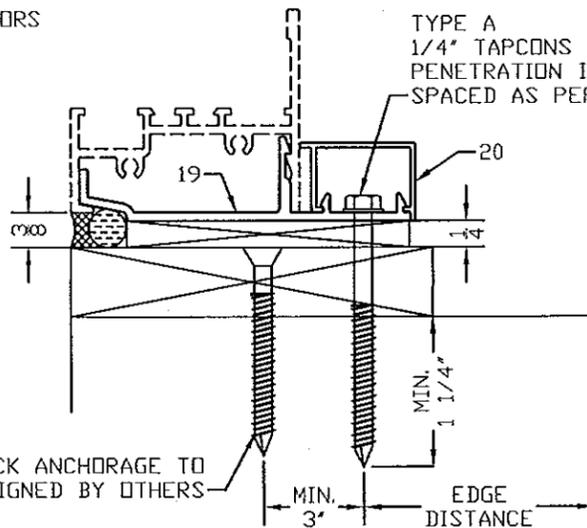


ANCHORAGE LAY-OUT WITH STRAP

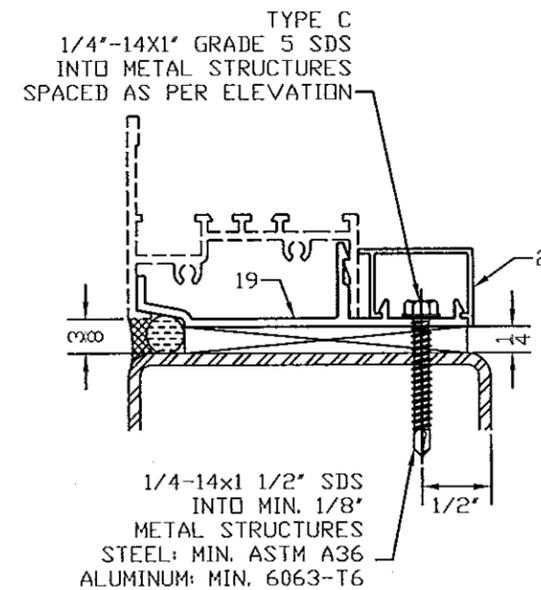
| TYPE | DESCRIPTION  | PENETRATION | EDGE DIST. | SUBSTRATUM                         |
|------|--------------|-------------|------------|------------------------------------|
| A    | 1/4" TAPCONS | 1 1/4"      | 2-1/2"     | MASONRY OR CONCRETE                |
| B    | 1/4" TAPCONS | 1 1/2"      | 3/4"       | INTO 2X BUCK (G>=0.55)             |
| C    | 1/4-14 SDS   | 1/8"        | 1/2"       | 6063-T6 ALUMINUM<br>ASTM A36 STEEL |



2X PRESSURE TREATED SOUTHERN PINE G>=0.55



1X PRESSURE TREATED SOUTHERN PINE G>=0.55



ALL WOOD IN CONTACT WITH MASONRY OR CONCRETE IS TO BE PROTECTED PER FBC 2326

PRODUCT REVISED is complying with the Florida Building Code  
Acceptance No 12-0619.04  
Expiration Date Aug. 19, 2014  
By *Manuel Torres*  
Miami Dade Product Control

JUN 14 2012

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677

*Yiping Wang*

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SERIES NRAP 2500-CO CASEMENT OUT WINDOW (S.M.I.)

**NR ARCHITECTURAL PRODUCTS**

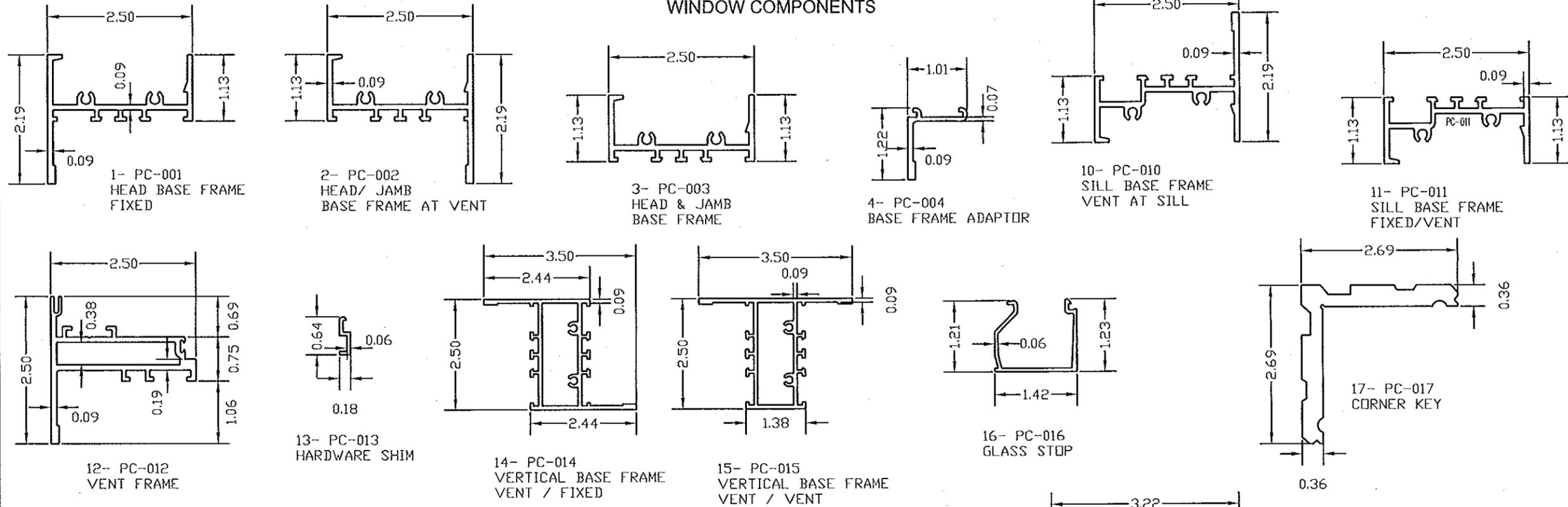
4948 WESTROADS DRIVE  
WEST PALM BEACH, FL 33407

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| DRAWN   | S.L.     |
| PROJECT | 12-028   |

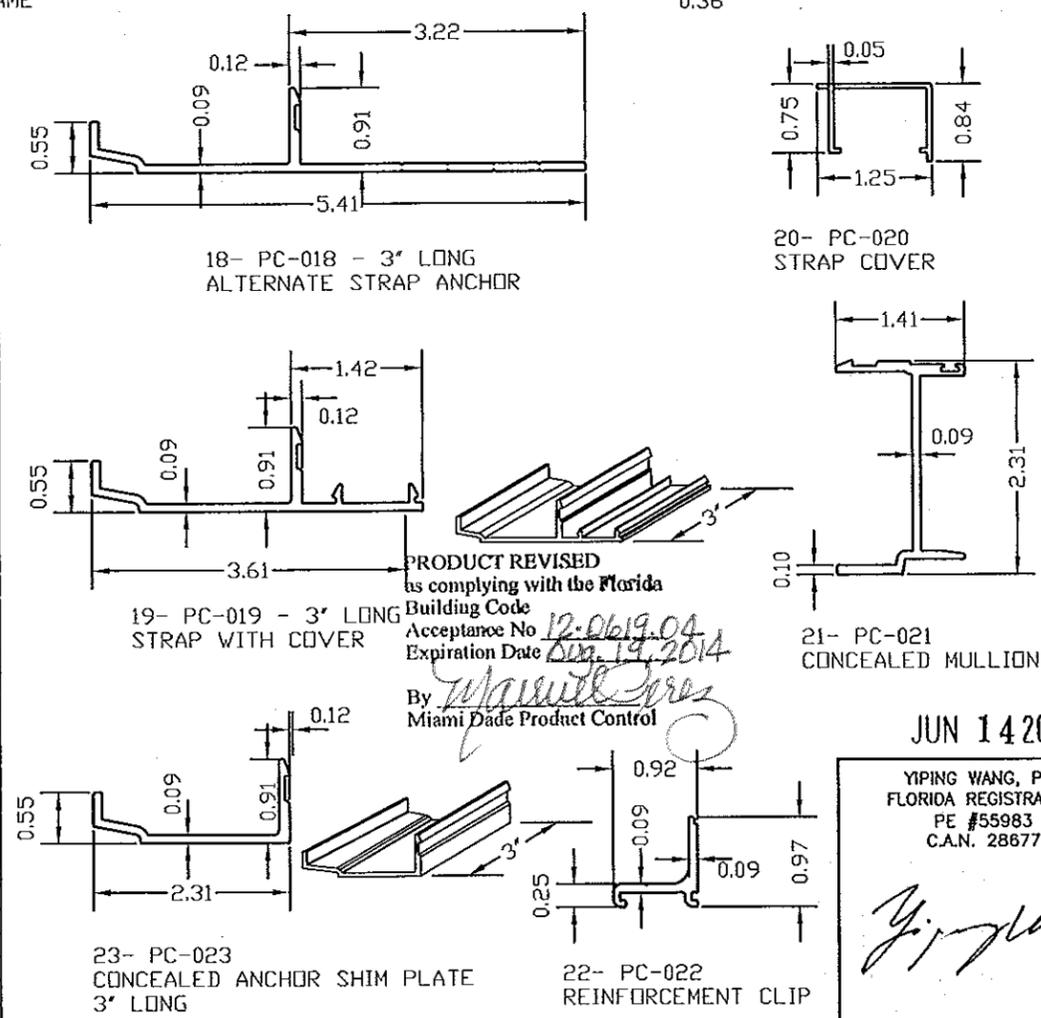
DRAWING NO.  
AD12-08

WINDOW COMPONENTS



COMPONENTS LIST

| ITEM | PART#  | DESCRIPTION                      | MATERIAL         | SUPPLIER                      |
|------|--------|----------------------------------|------------------|-------------------------------|
| 1    | PC-001 | HEAD BASE FRAME (FIXED)          | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 2    | PC-002 | HEAD/JAMB BASE FRAME (OPERABLE)  | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 3    | PC-003 | HEAD AND JAMB BASE FRAME         | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 4    | PC-004 | BASE FRAME ADAPTOR               | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 10   | PC-010 | SILL BASE FRAME (OPERABLE)       | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 11   | PC-011 | SILL BASE FRAME (FIXED/OPERABLE) | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 12   | PC-012 | CASEMENT WINDOW FRAME            | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 13   | PC-013 | HARDWARE SHIM                    | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 14   | PC-014 | VERTICAL BASE FRAME (OPERABLE)   | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 15   | PC-015 | VERTICAL BASE FRAME (FIXED)      | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 16   | PC-016 | GLASS STOP                       | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 17   | PC-017 | CASEMENT CORNER KEY              | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 18   | PC-018 | ALTERNATE STRAP ANCHOR           | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 19   | PC-019 | STRAP ANCHOR                     | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 20   | PC-020 | STRAP ANCHOR COVER               | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 21   | PC-021 | CONCEALED MULLION                | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 22   | PC-022 | REINFORCEMENT CLIP               | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 23   | PC-023 | CONCEALED STRAP ANCHOR           | ALUMINUM 6063-T6 | NR ARCHITECTURAL PRODUCTS     |
| 30   | NR-A25 | BUTT HINGE 1192 3-1/4"           | NA               | ADVANTAGE MANUFACTURING CORP. |
| 31   | NR-A22 | CAMLOCK ASSEMBLY                 | BRONZE           | BRONZECRAFT                   |
| 32   | NR-A26 | MULTI-POINT LOCK                 | STEEL            | ADVANTAGE MANUFACTURING CORP. |
| 33   | NR-A27 | MULTI-POINT LOCK                 | STEEL            | ROTO FRANK OF AMERICA         |
| 34   | --     | 9/16" LAMINATED IMPACT GLASS     | GLASS            | DUPONT                        |
| 35   | NR-A23 | WEEP SLOT COVER                  | PLASTIC          | NR ARCHITECTURAL PRODUCTS     |
| 36   | NR-A24 | VK2526 1/4" PVC SPACER           | PVC              | CAPITAL TAPE                  |
| 37   | --     | GLAZING SEALANT DOW 983 II PART  | SILICONE         | DOW CORNING                   |
| 38   | --     | GLAZING SEALANT DOW 995          | SILICONE         | DOW CORNING                   |
| 39   | NR-G20 | PS 1126E POLY-WEDGE GASKET       | 70 DURO EPDM     | TREMCO                        |
| 40   | NR-G21 | EXT. WEATHERSEAL AP 150          | EXTRUDED TAPE    | SCHLEGEL                      |
| 41   | NR-G22 | INT. WEATHERSEAL TLOK 150        | POLYETHYLENE     | SCHLEGEL                      |
| 42   | NR-G23 | VL 1026-107 WEEP VALVE           | SILICONE         | VERNAV                        |
| 43   | NR-G25 | GLASS SETTING BLOCK TR-1365E     | 70 DURO EPDM     | TREMCO                        |
| 44   | --     | PERIMETER SEALANT DOW 795        | SILICONE         | DOW CORNING                   |
| 45   | --     | FRAME JOINT SEALANT              | SILICONE         | CRL BUILDING PRODUCTS         |
| 46   | NR-F12 | BASE FRAME FIXING SCREWS         | STAINLESS STEEL  | #10X1 PPH TSEK SCREW          |
| 47   | NR-F13 | ADAPTOR FIXING SCREW             | STAINLESS STEEL  | #12 X 3/4" PP TEK SREW        |
| 48   | NR-EP1 | 1/16"-2-1/2"X5/16" END PLATE     | 6063-T6 ALUMINUM | NR ARCHITECTURAL PRODUCTS     |

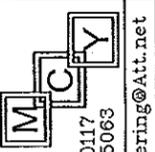


PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0619-04  
Expiration Date Dec 19, 2014  
By *Yiping Wang*  
Miami Dade Product Control

JUN 14 2012

YIPING WANG, P.E.  
FLORIDA REGISTRATION  
PE #55983  
C.A.N. 28677

| NO. | DATE     | DESCRIPTION          |
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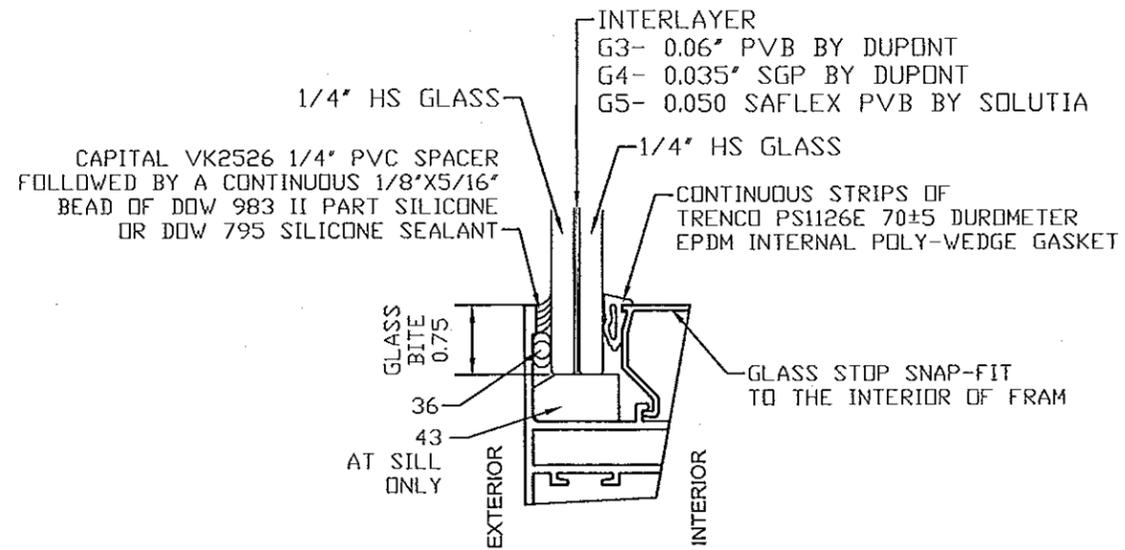
**MCY ENGINEERING, INC.**  
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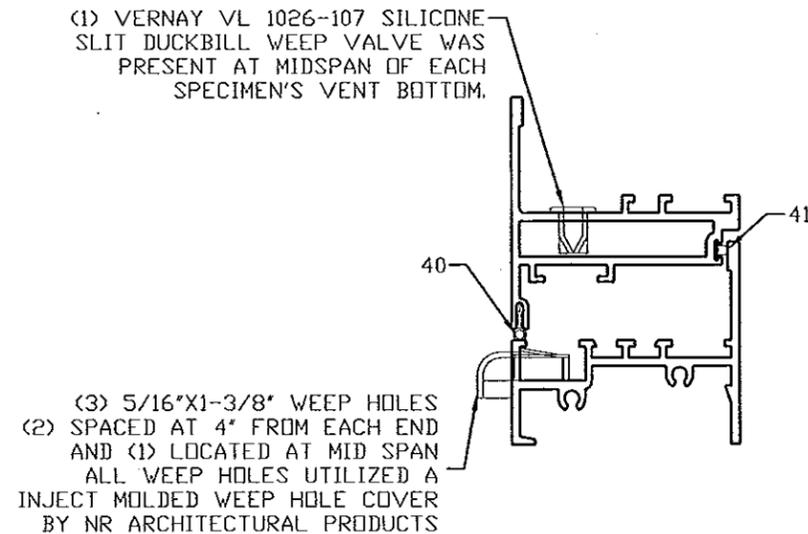
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| PROJECT | 12-026   |

DRAWING NO.  
AD12-08

**GLAZING DETAIL**



**WEEP HOLES, WATER DIVERTERS, COVERS AND WEATHER STRIPPING**



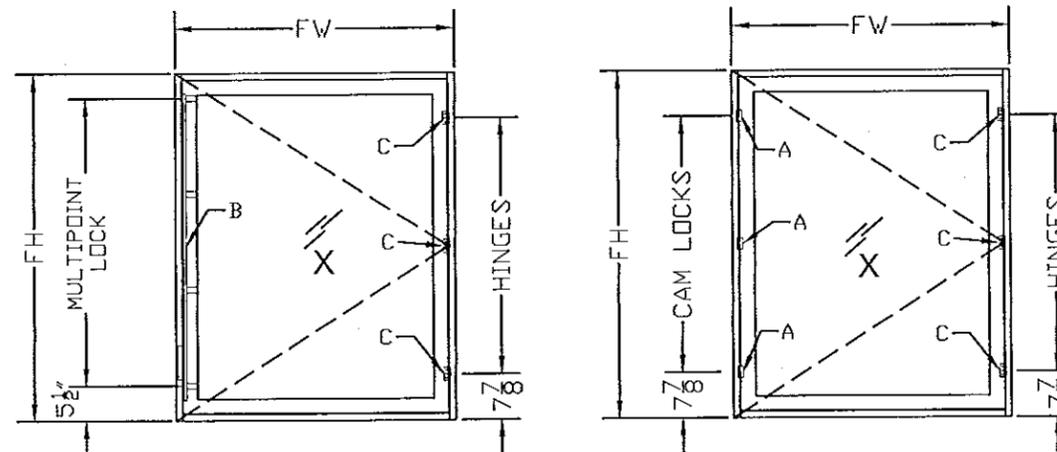
**HARDWARE SCHEDULE:**

A- BRONZECRAFT CAMLOCK ASSEMBLY CONSISTING OF THE HANDLE AND KEEPER. TWO LOCKS LOCATED 7-5/8" FROM THE TOP AND BOTTOM OF THE WINDOW TO CENTERLINE OF THE LOCKS AND THE OTHERS EQUALLY SPACED. THE HANDLE WAS ATTACHED WITH (2) 3/16" X 3/4" PPHMS TO THE OPERABLE VENT JAMB WHILE THE KEEPER WAS FASTENED TO THE FRAME BASE WITH (4) 1/4"-20 X 5/16" FHSTSS SCREWS

B- ADVANTAGE MULTI-POINT LOCK WITH FIRST LOCATED AT 5-1/2" FROM THE BOTTOM OF THE BASE FRAME AND THE BALANCE EVENLY SPACED. THE LOCK HANDLE WAS ATTACHED TO THE JAMB USING (2) #12 X 3/4" PHSMS. THE INTERNAL LOCK ROD IS ATTACHED ON THE INSIDE FACE OF THE JAMB AT 4 LOCATIONS, ONE AT TOP, ONE AT BOTTOM AND TWO AT 1/4" POINTS OF THE OVERALL LENGTH OF THE LOCKING BAR, FASTENED AT TWO POINTS EACH USING #10 X 1/2" FHSMS.

B ALTERNATE- ROTO FRANK AMERICA, INC. MULTI-POINT LOCK WITH FIRST LOCATED AT 5-1/2" FROM THE BOTTOM OF THE BASE FRAME AND THE BALANCE EVENLY SPACED. THE LOCK HANDLE WAS ATTACHED TO THE JAMB USING (2) #8 X 1/2" PHSMS. THE INTERNAL LOCK BAR IS ATTACHED ON THE INSIDE FACE OF THE JAMB AT 6 LOCATIONS, FIRST AT 7-5/16" FROM THE BOTTOM AND THE BALANCE EVENLY SPACED FASTENED WITH (3) #8 X 3/4" FHSMS..

C- ADVANTAGE 1192 3-1/4" BUTT HINGE WITH TWO LOCATED 7-7/8" FROM THE TOP AND BOTTOM OF THE WINDOW AND THE OTHERS EQUALLY SPACED. THE HINGES WERE ATTACHED USING (3) #10 X 3/4" PPHSS SCREWS AT THE JAMB BASE FRAME AND (3) 8/32" X 1/2" PPHSS PER OPERABLE VENT.



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Miami/Dade Product Control

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