



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
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

YKK AP America
332 Firetower Road
Dublin, GA 31021

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: YKK Series "YOW-225TUH" Aluminum Project Out Window

APPROVAL DOCUMENT: Drawing No. **W03-68**, titled "YOW-225TUH Alum Project Out WDW. (L.M.I)", sheets 1 through 7 of 7, prepared by Al-Farooq Corporation, dated 08/15/03 and last revised on Jan 25, 2008, signed and sealed by Dr. Humayoun Farooq, 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 Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

- Limitation:** 1. Max single project out +fixed window w/ integral post (item #9) must be limited to 62" W X 84"H
- 2. Max. double project out windows w/ integral post (item #8) must be limited to 75-1/2"height.
- 3. Side by side or mulled condition combined with YKK's single or double project out or single project out +fixed windows must have separate current NOA and must be reviewed by AHJ.

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 # **03-1006.07** consists of this page 1 and evidence pages E1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



NOA No 07-1114.09
Expiration Date: February 19, 2014
Approval Date: March 13, 2008

2-19-14

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W03-68**, titled "YOW-225TUH Alum Project out WDW. (L.M.I)", sheets 1 through 7 of 7, prepared by Al-Farooq Corporation, dated 08/15/03 and last revised on Jan 25, 2008, signed and sealed by Dr. Humayoun Farooq, P.E.

B. TESTS (transferred from file # 03-1006.07)

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) Forced Entry Resistance Test, per FBC, TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of an aluminum casement window, prepared by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0231-0810-02HTL**, dated 08/22/02 and **0231-1210-02**, dated 12/12/02 signed and sealed by Vinu J. Abraham, P.E.
2. Additional test report No(s) **G-231-0608-07 & G-231-0607.07** per TAS 201, 202 & 203-94 for single casement windows, dated 09/14/07, issued by Hurricane Testing Lab, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Anchor verification calculations, comparative and structural analysis, prepared by Al Farooq Corporation, dated 10/12/07, signed and sealed by Dr. Humayoun Farooq, P.E.

D. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **07-1116.04** issued to E.I. Dupont De Nemours & CO., Inc. for "DuPont SentryGlas ® Plus", expiring on 01/14/2012.
2. Notice of Acceptance No. **03-0421.01** issued to Solutia, Inc. for "Saflex HP", expiring on 04/14/08.
3. Notice of Acceptance No. **07-1116.11** issued to Security Impact Glass Holdings L.L.C. for "SAF-GLAS", expiring on 12/16/12.
4. Notice of Acceptance No. **03-0415.13** issued to Solutia, Inc. for "Vanceva Strom Composite", expiring on 12/11/08.

E. QUALITY ASSURANCE

1. Miami-Dade County Building Code Compliance Office

F. STATEMENTS

1. Statement letter of conformance and "No financial interest", dated 10/25/07, signed and sealed by Dr. Humayoun Farooq, P.E.
2. Laboratory compliance letter, as part of the above referenced test reports, issued by Hurricane Test Laboratory, Inc.

G. OTHER

1. This NOA revises NOA # **03-1006.07**, expiring 02-19-09.
2. Test proposal dated 05/02/02, 06/20/03 and 12/19/06 approved by BCCO.

Ishaq I. Chanda

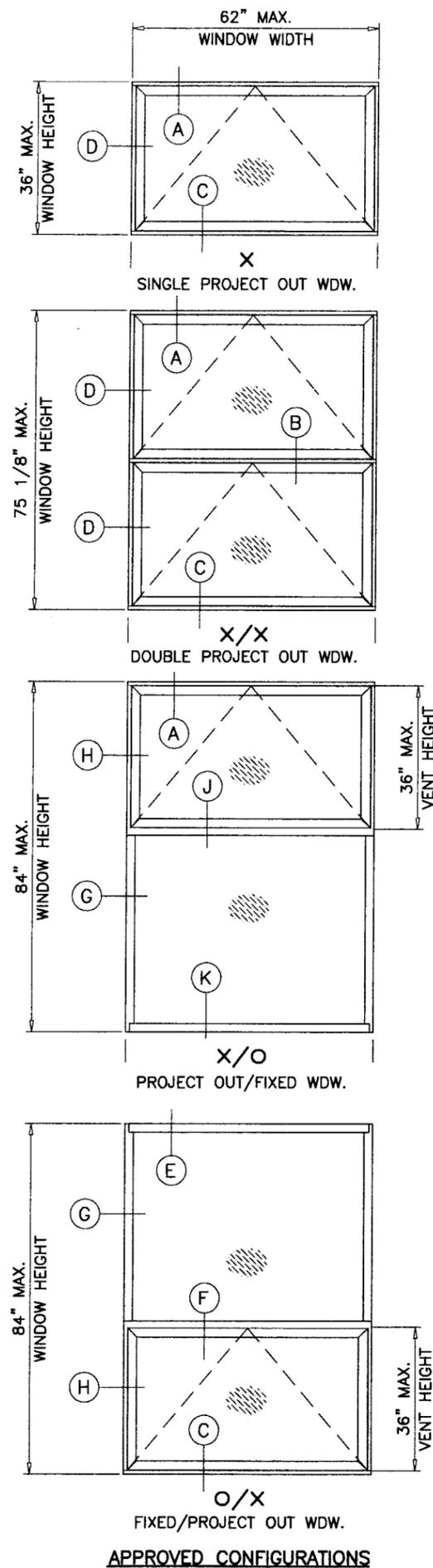
Ishaq I. chanda, P.E.

Product Control Examiner

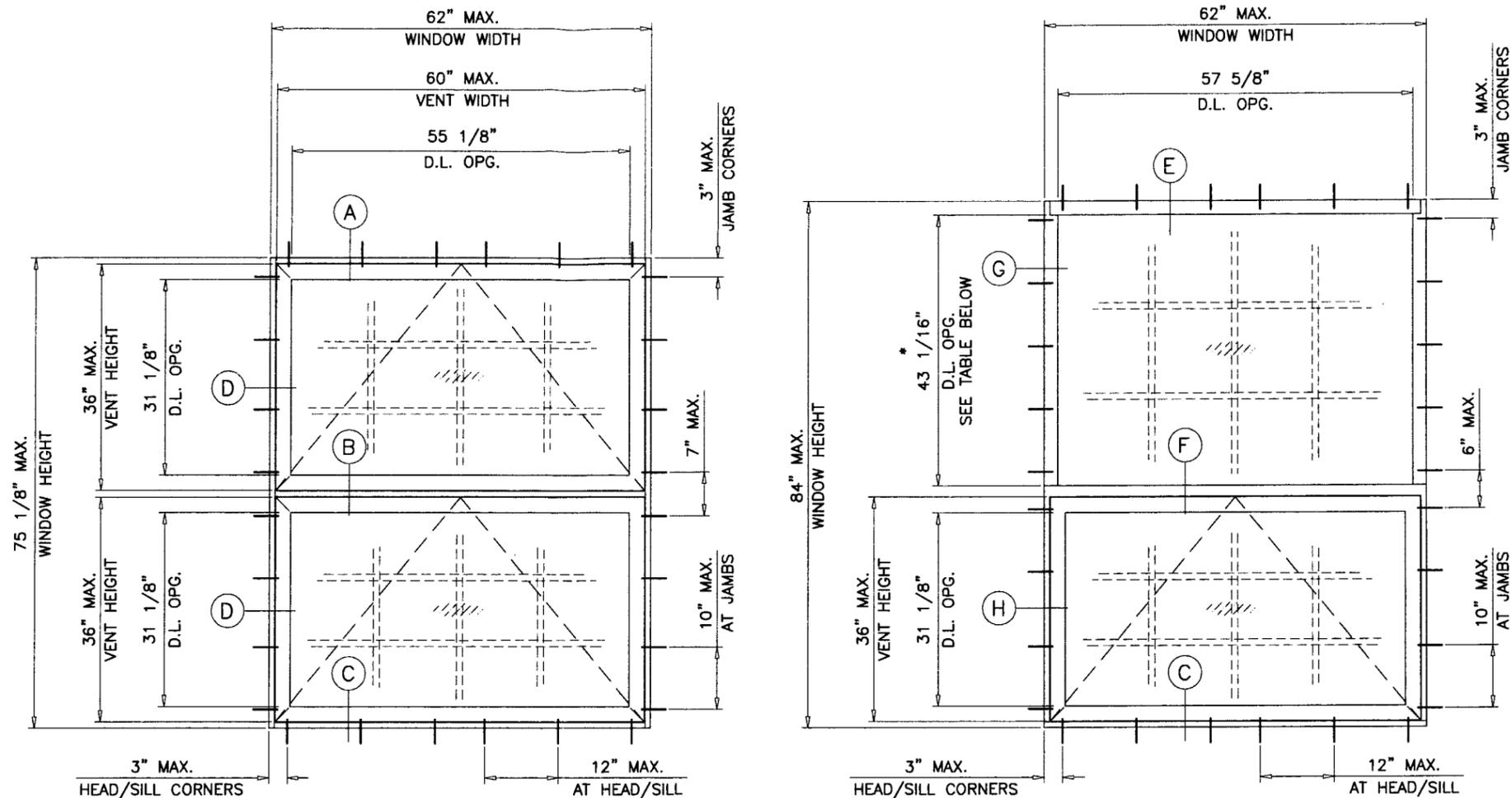
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APPROVED CONFIGURATIONS



TYPICAL ELEVATION
TESTED UNITS

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT.
SHUTTERS ARE NOT REQUIRED.

YOW 225 TUH
THERMAL ALUMINUM PROJECT OUT WINDOWS

APPROVAL APPLIES TO SINGLE OR DOUBLE PROJECTED WINDOWS. ALSO SIDE BY SIDE COMBINATIONS OF PROJECTED/PROJECTED OR PROJECTED WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM, TO BE REVIEWED BY BLDG OFFICIAL.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2004 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004 FLORIDA BLDG. CODE SECTION 2003.8.4.

MAXIMUM DESIGN LOAD RATING = + 65.0 PSF
(FOR SIZES SHOWN OR SMALLER) - 65.0 PSF

* LIMIT MAX. D.L. OPNG. SIZE IN FIXED(O) LITE AS SHOWN BELOW

| GLASS TYPE 'A' | | GLASS TYPES 'B', 'C', 'D', 'E' & 'I' | |
|----------------|----------|--------------------------------------|---------|
| WIDTH | HEIGHT | WIDTH | HEIGHT |
| 57 5/8" | 43 1/16" | 57 5/8" | 29-3/4" |

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-1114-09
Expiration Date FEB 19, 2014
By: Ishtiaq I. Chaudhry
Miami Dade Product Control
Division

LAMINATED GLASS
LARGE MISSILE IMPACT

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

JAN 25 2008

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W03-68YKK

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332 FIRETOWER ROAD
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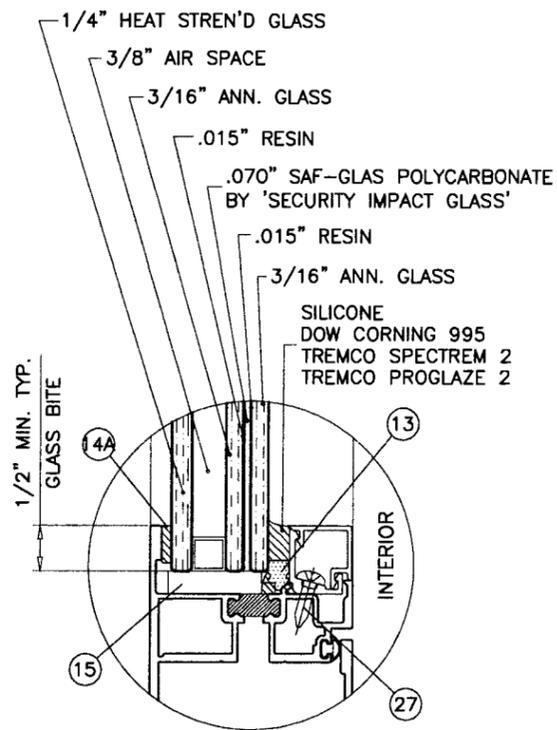
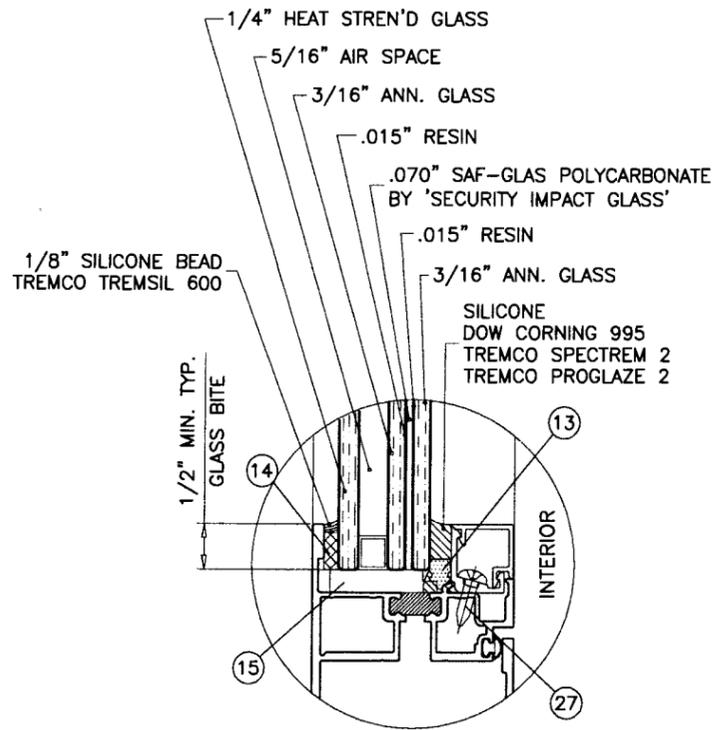
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| A | 10.31.03 | | REV. PER BCCO COMMENTS |
| B | 04.07.05 | | GLAZING OPTIONS ADDED |
| C | 09.18.07 | | GENERAL REVISION |
| D | 01.14.08 | | REV. PER BCCO COMMENTS |

revisions:

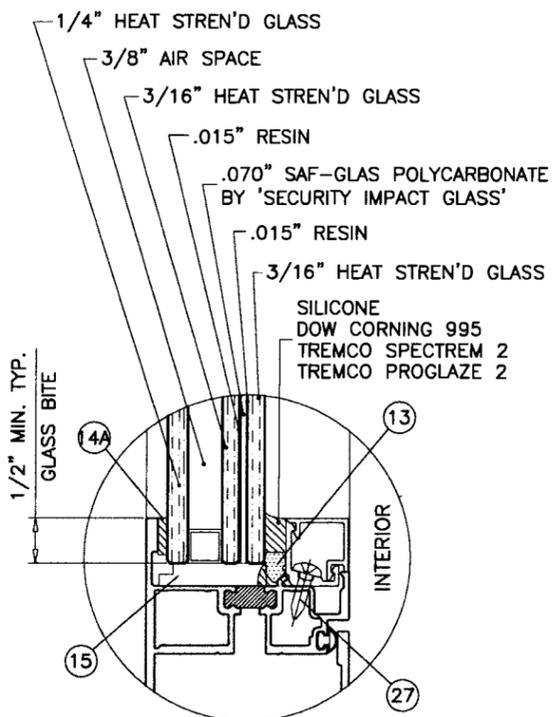
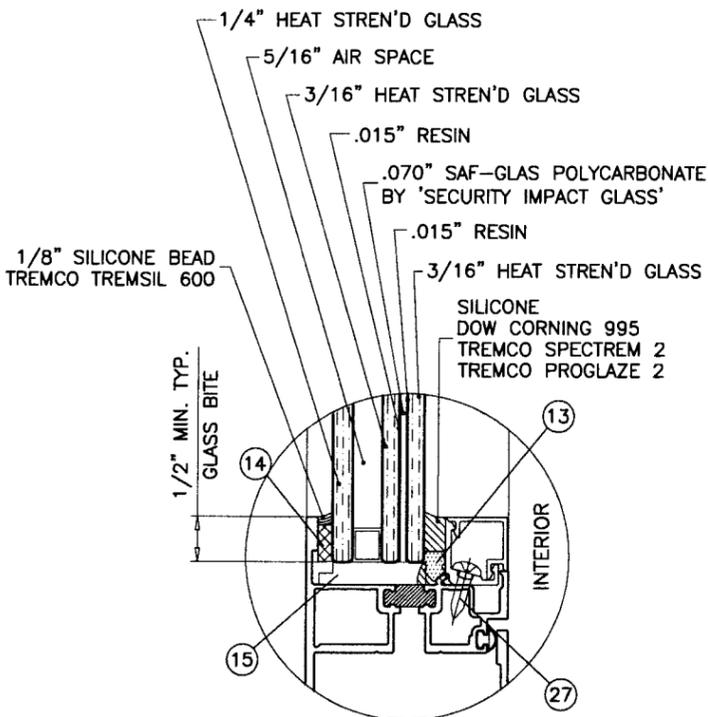
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dr. by: HAMID
chk. by:

drawing no.
W03-68

sheet 1 of 7



GLASS TYPE 'A'



GLASS TYPE 'B'

1-1/16" OVERALL LAMINATED GLASS
LARGE MISSILE IMPACT RESISTANT

GLAZING OPTIONS
SEE SHEET 1 FOR LIMITATIONS

NOTE:
GLASS CAPACITIES ARE
BASED ON ASTM E1300-02 (3 SEC. GUSTS).

SEALANTS:

FRAME CORNERS JOINTS SEALED WITH BUTYL RUBBER
CORNER GASKET (#E2-0644).
TREMCO SPECTRUM 2 SILICONE SEALANT AT PERIMETER.

WEEP HOLES:

W1 = 1/4" X 1-1/16" WEEP SLOT AT CENTERLINE.
W2 = 9/32" DIA. WEEP HOLES AT 4" FROM EACH CORNER

LOCK OPTIONS:

(2) BRONZECRAFT CAM HANDLES (E1-1541/1542)
AT LOCK STILE OF VENT, 8" FROM EACH END
SECURED WITH (2) #10 X 1/2" FH SMS.
(2) BRONZECRAFT KEEPERS (E1-1519)
AT FRAME SILL/HORIZ. IMPOST FACING LOCKS
SECURED WITH (2) #10 X 1/2" FH SMS.

PRODUCT REVISION
as complying with the Florida
Building Code
Acceptance No 07-1114-05
Expiration Date FEB 19 2014
By Ishag I. Chaudhry
Miami Dade Product Control
Division

Engr: DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

JAN 25 2008

afc
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W03-68YK

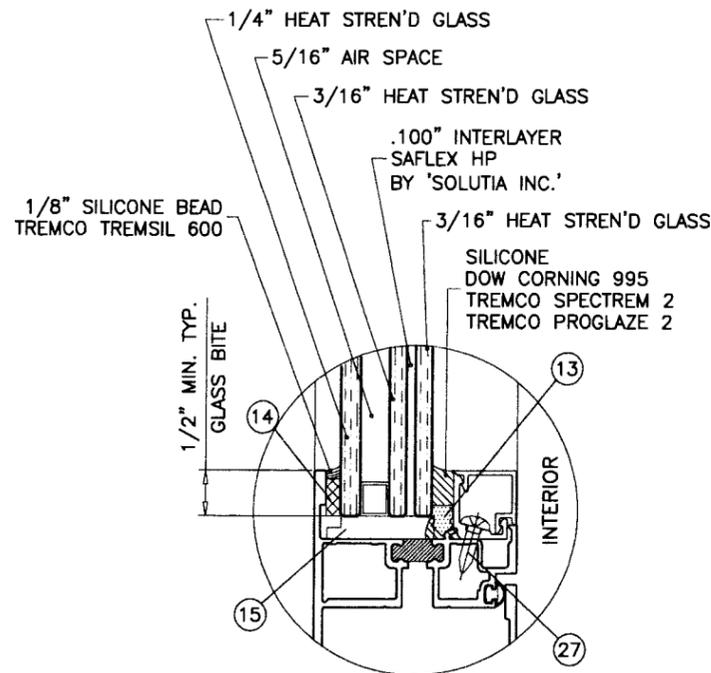
YOW 225 TUH ALUM PROJECT OUT WDW. (L.M.I.)
YKK AP AMERICA INC.
332 FIRETOWER ROAD
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TEL(478) 277-1955 FAX(478) 277-1978

| no | date | by | description |
|----|----------|----|------------------------|
| A | 10.31.03 | | NO CHANGE THIS SHEET |
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| D | 01.14.08 | | REV. PER BCCO COMMENTS |

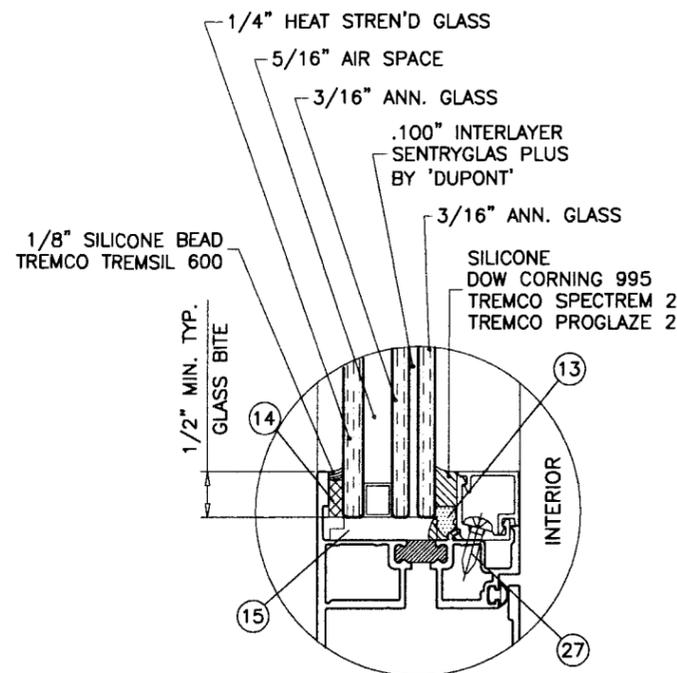
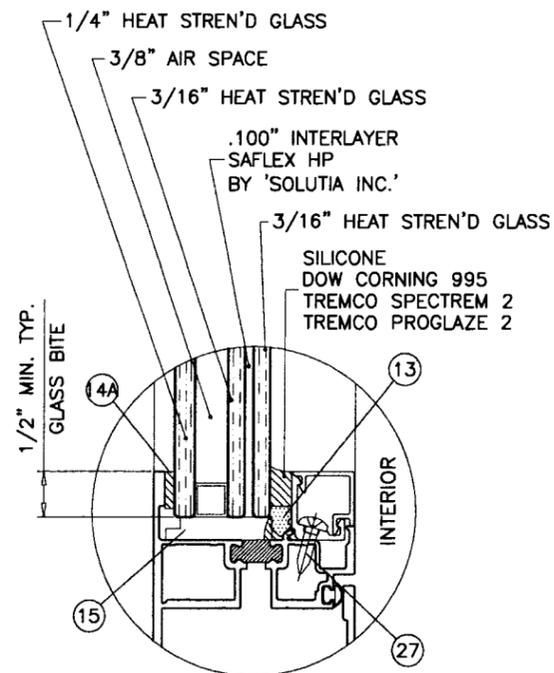
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dr. by: HAMID
chk. by:

drawing no.
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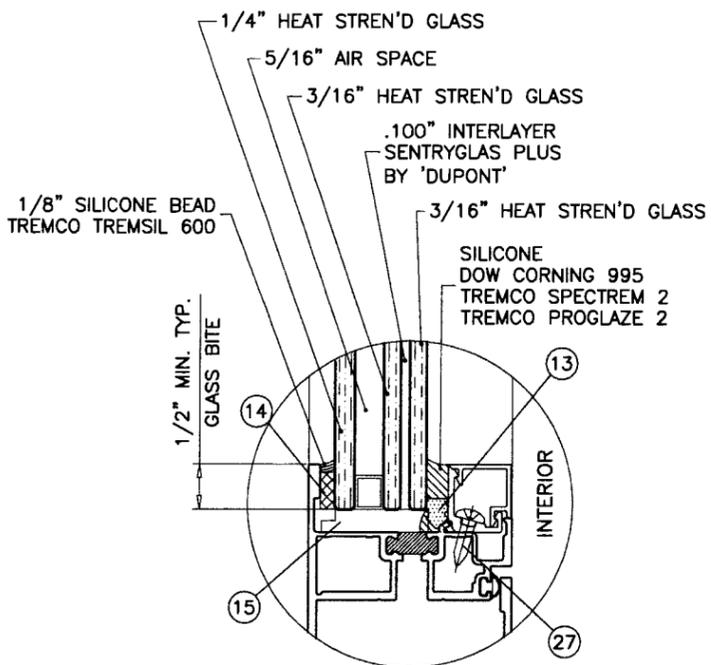
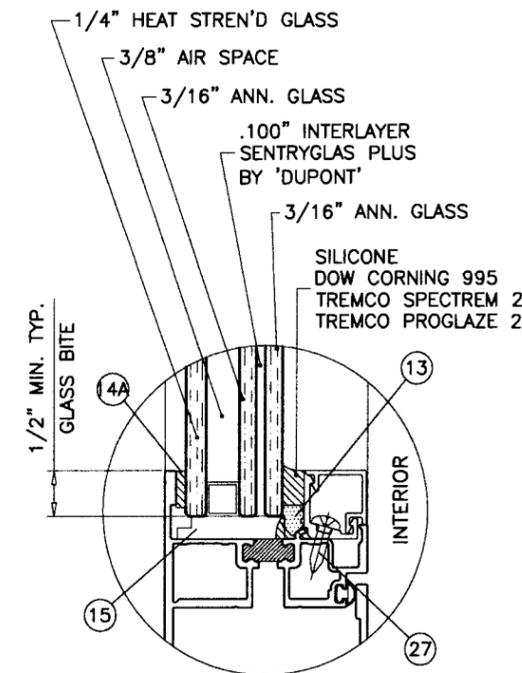
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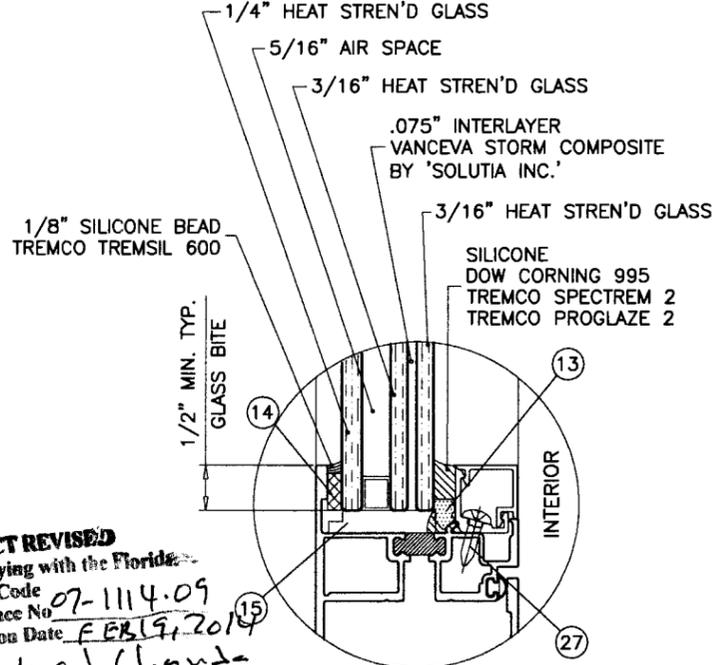
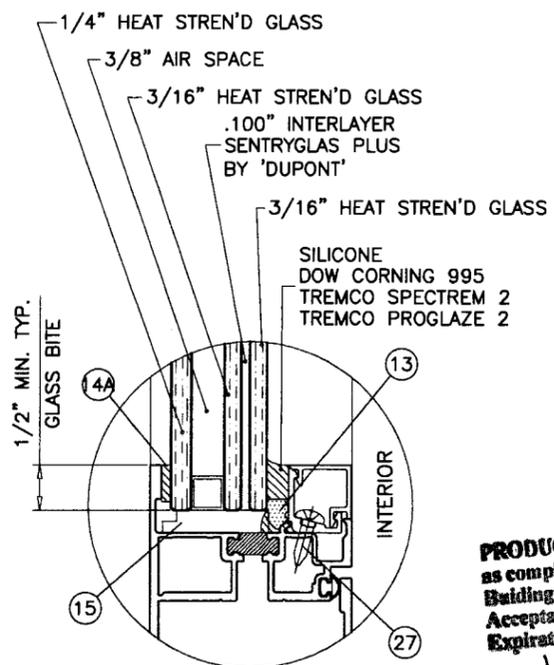
GLASS TYPE 'C'



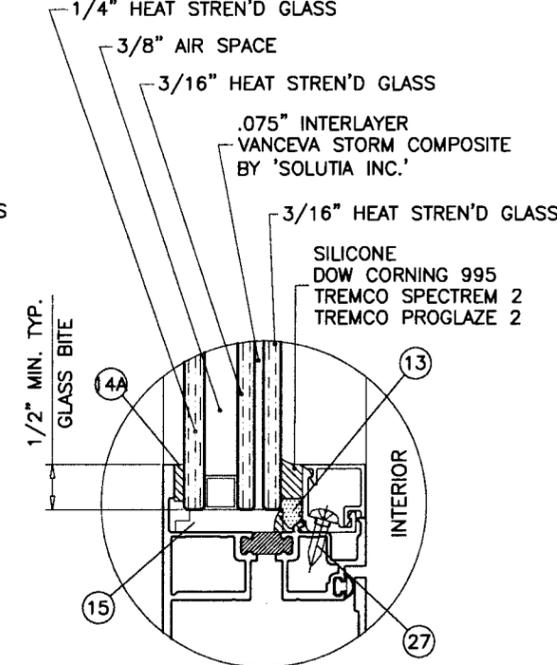
GLASS TYPE 'D'



GLASS TYPE 'E'



GLASS TYPE 'I'



1-1/16" OVERALL LAMINATED GLASS
LARGE MISSILE IMPACT RESISTANT

GLAZING OPTIONS
SEE SHEET 1 FOR LIMITATIONS

PRODUCT REVISED
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Acceptance No. FEB 19, 2014
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By Iskang I. Chanda
Miami Dade Product Control
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NOTE:
GLASS CAPACITIES ARE
BASED ON ASTM E1300-02 (3 SEC. GUSTS).

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

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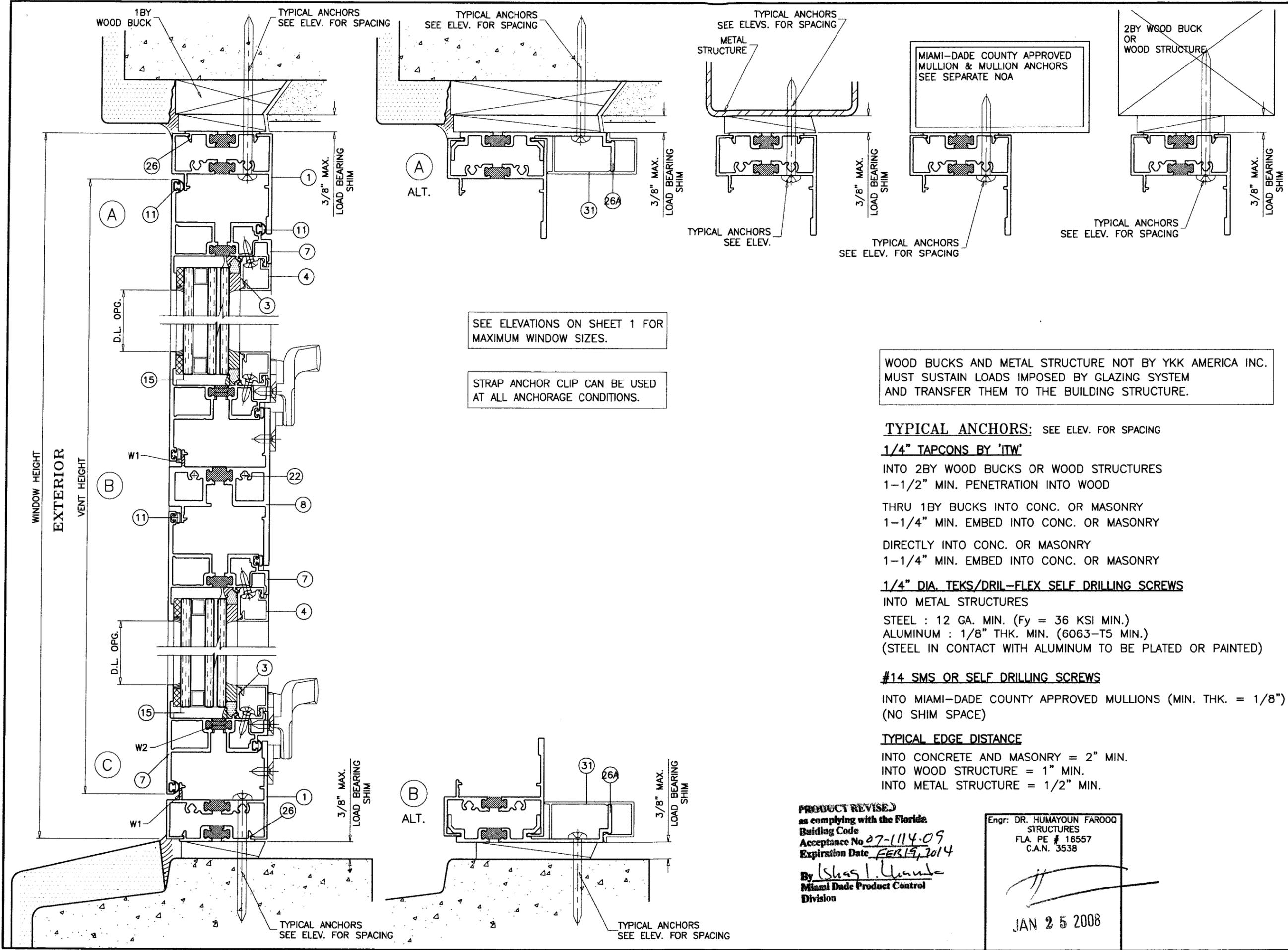
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date: 08-15-03
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W03-68
sheet 3 of 7



SEE ELEVATIONS ON SHEET 1 FOR
MAXIMUM WINDOW SIZES.

STRAP ANCHOR CLIP CAN BE USED
AT ALL ANCHORAGE CONDITIONS.

WOOD BUCKS AND METAL STRUCTURE NOT BY YKK AMERICA INC.
MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM
AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" TAPCONS BY 'ITW'

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-1/2" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

1/4" DIA. TEKS/DRIL-FLEX SELF DRILLING SCREWS

INTO METAL STRUCTURES
STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#14 SMS OR SELF DRILLING SCREWS

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
(NO SHIM SPACE)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 1/2" MIN.

PRODUCT REVISED
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Miami Dade Product Control
Division

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

[Signature]

JAN 25 2008

af c
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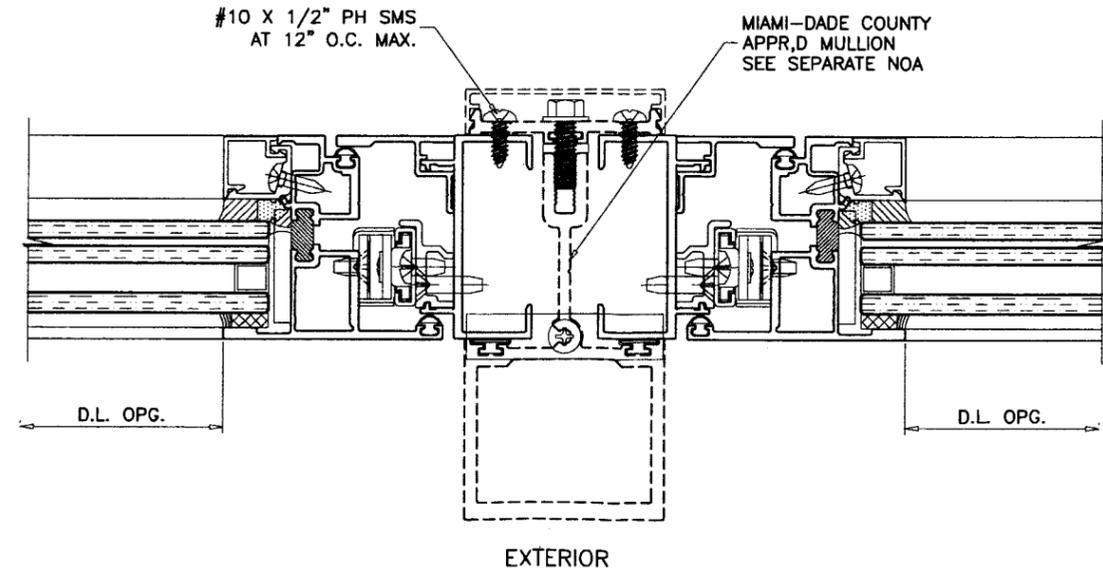
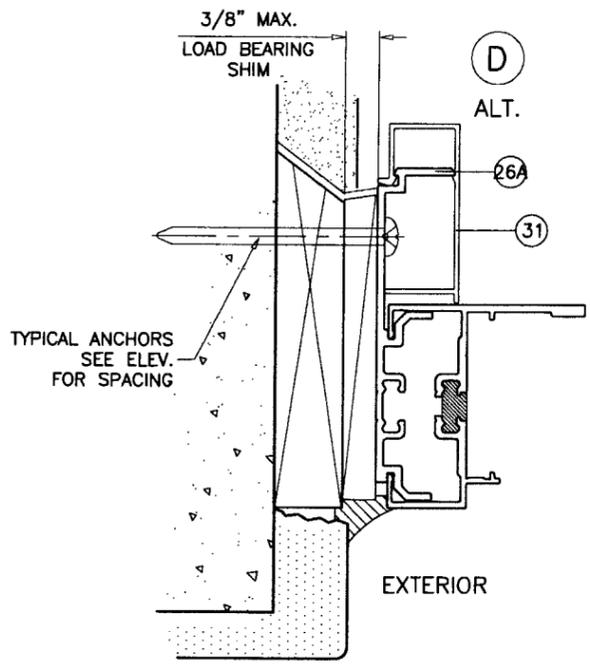
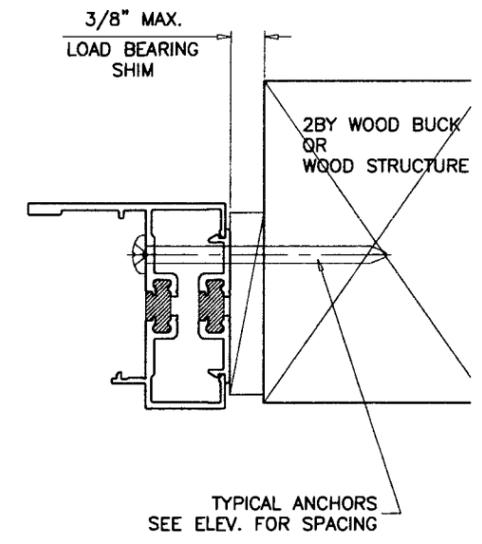
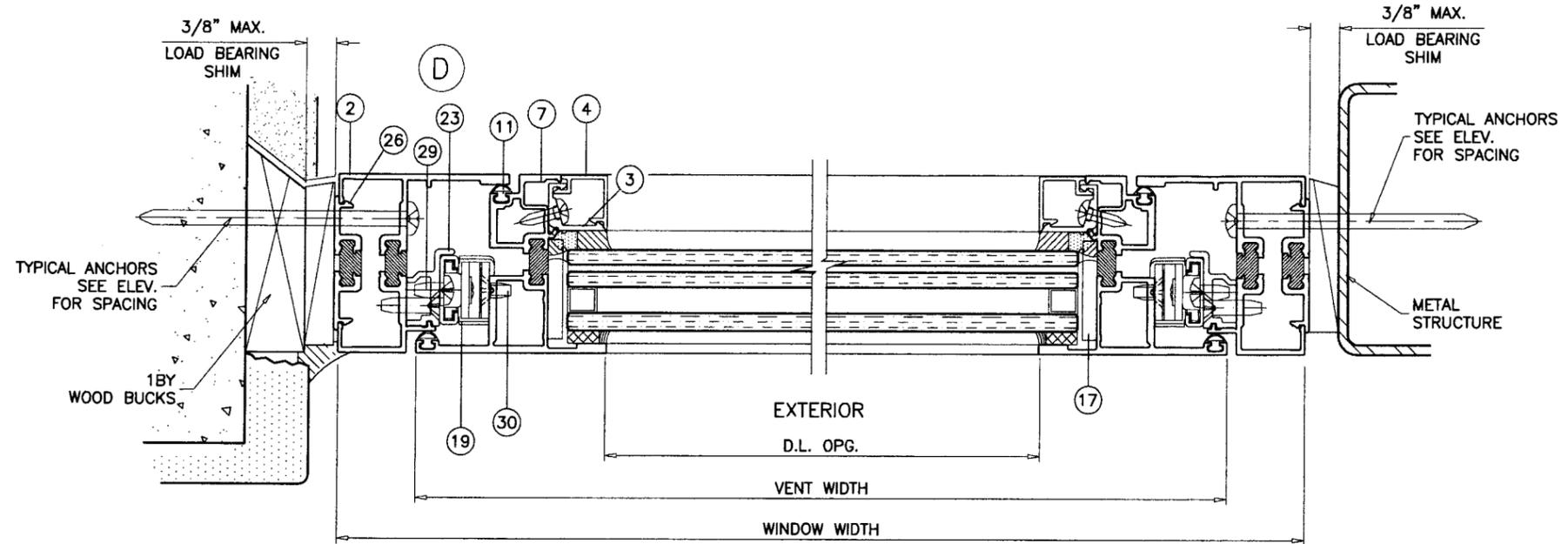
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chk. by:

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sheet 4 of 7

SEE ELEVATIONS ON SHEET 1 FOR
MAXIMUM WINDOW SIZES.



EXTERIOR
SIDE BY SIDE WINDOWS

PRODUCT REVISION
As complying with the Florida
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Acceptance No 07-1114-09
Expiration Date FEB 19, 2014
By Ishag I. Lhanda
Miami Dade Product Control
Division

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 16557
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JAN 25 2008

afc

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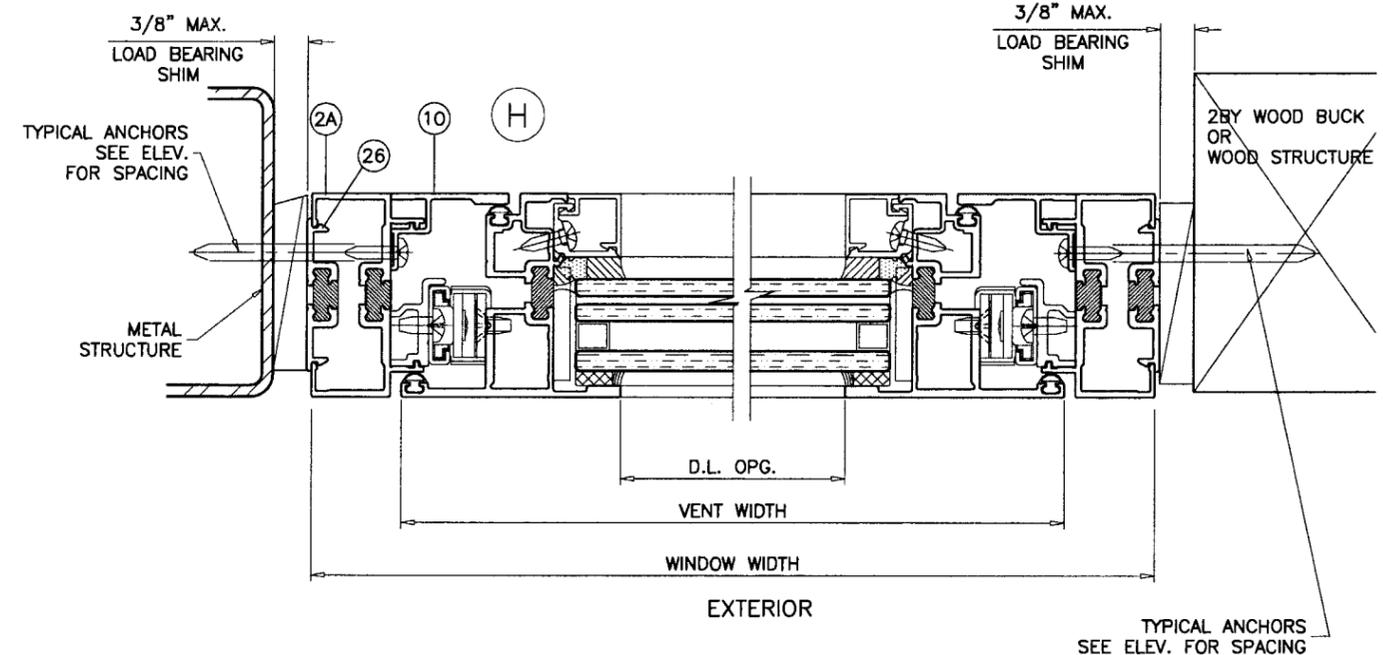
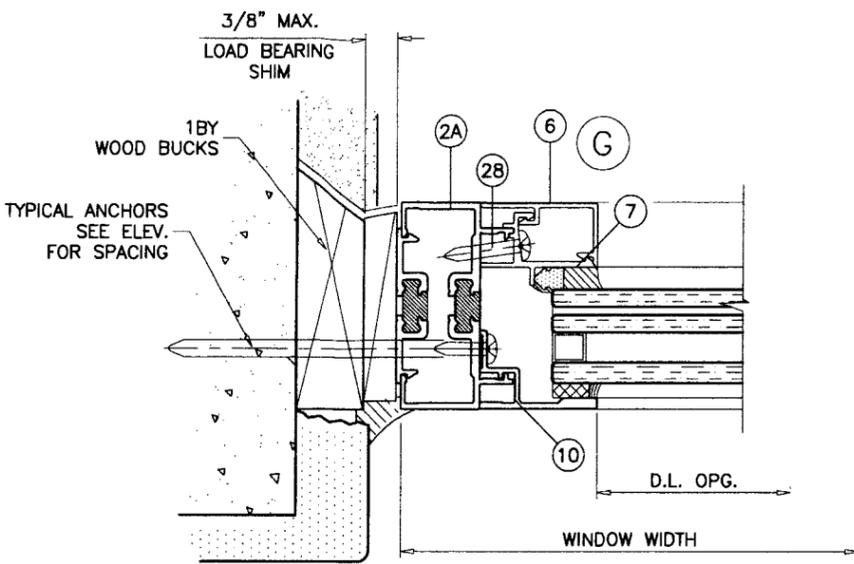
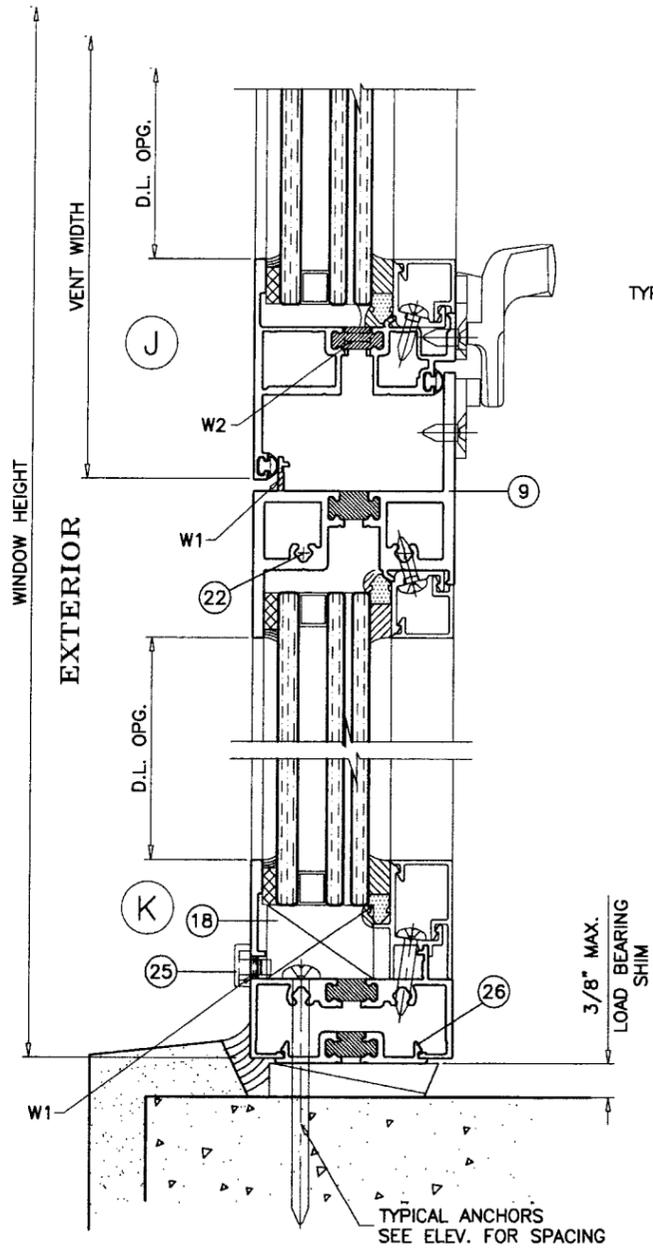
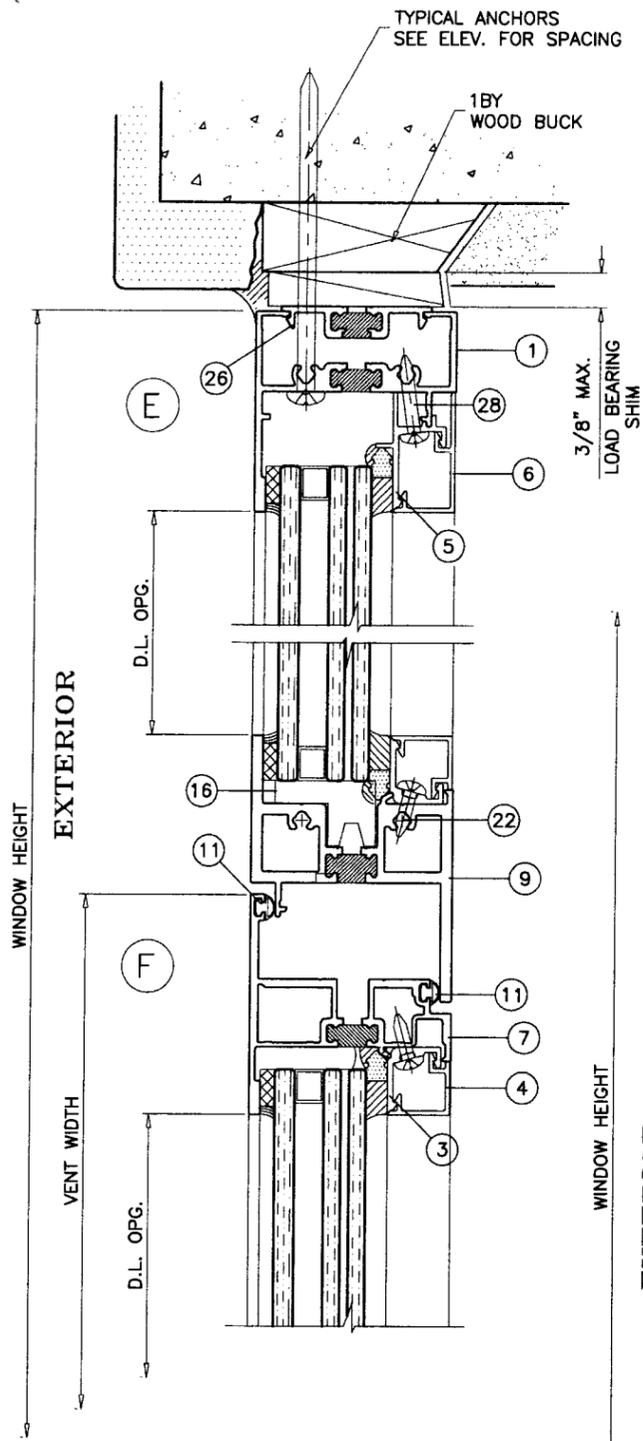
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sheet 5 of 7



SEE ELEVATIONS ON SHEET 1 FOR
MAXIMUM WINDOW SIZES.

Engr: DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

[Signature]

JAN 25 2008

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 02-1114-09
Expiration Date FEB 19, 2014
By Chay L. Chando
Miami Dade Product Control
Division

af c
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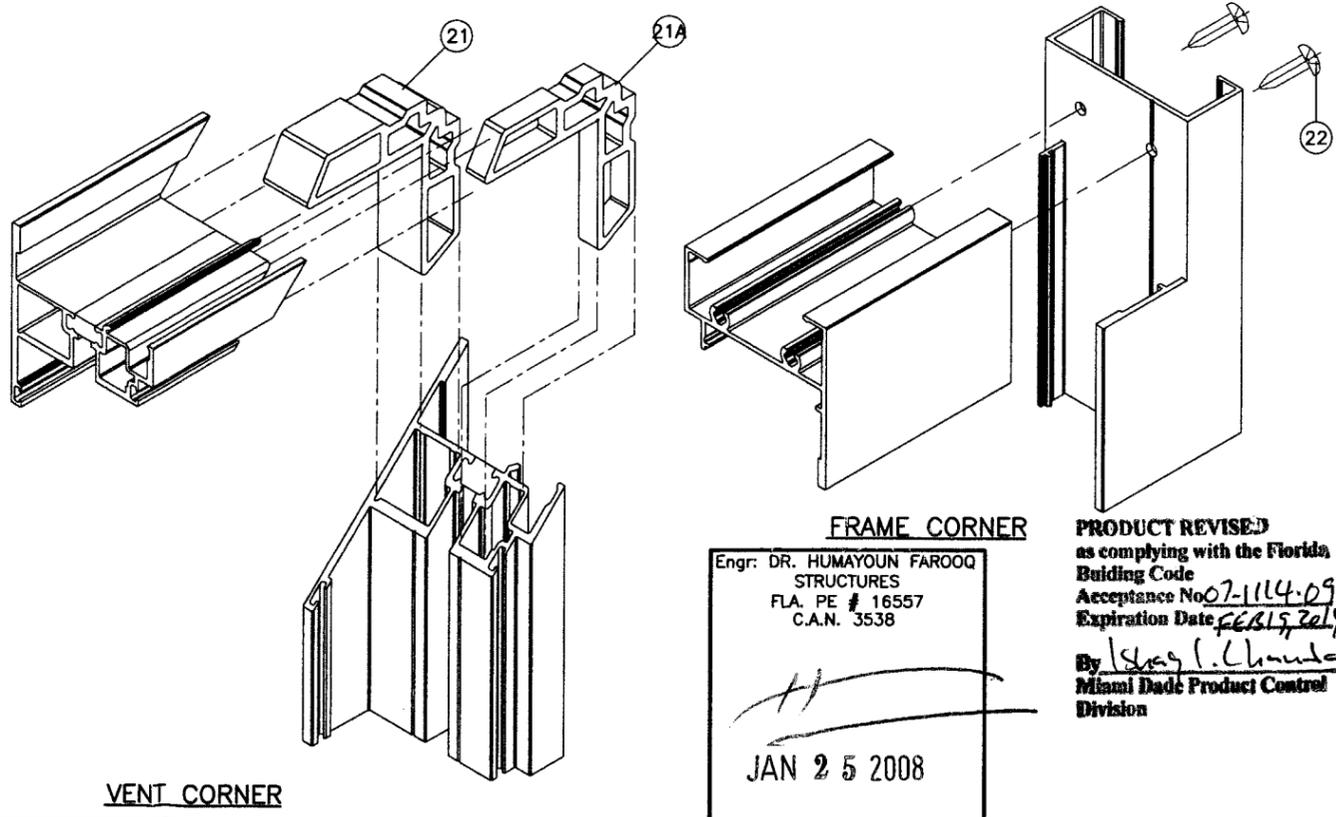
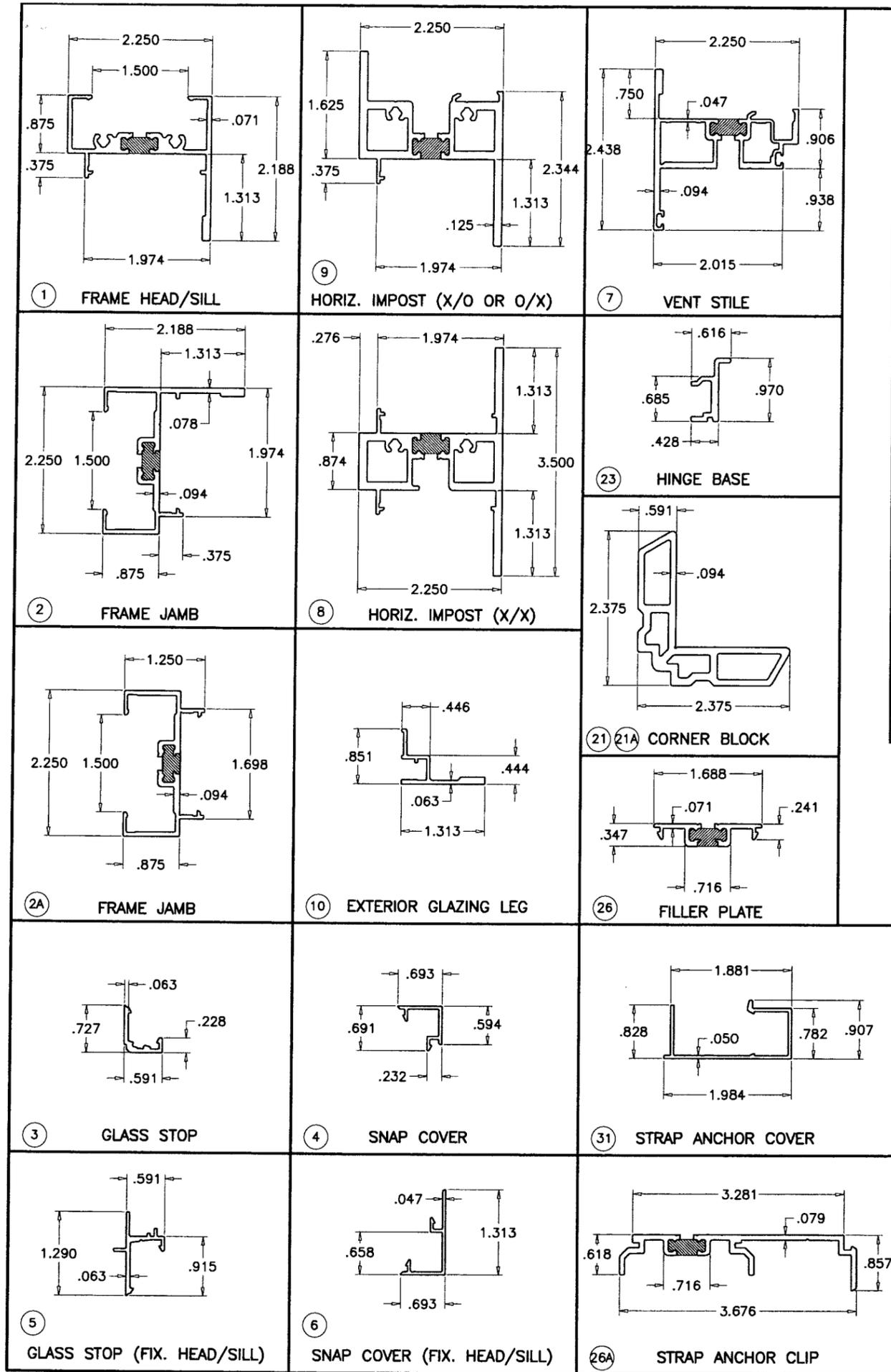
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drawing no.
W03-68
sheet 6 of 7

| ITEM NO. | PART NUMBER | QUANTITY | DESCRIPTION | MATERIAL | MANF./SUPLIER/REMARKS |
|----------|-------------|-----------|---|--------------|--|
| 1 | BE9-4501 | 2/ WDW | FRAME HEAD/SILL | 6063-T5 | YKK AP AMERICA INC. |
| 2 | BE9-4502 | 2/ WDW | FRAME JAMB (VENT) | 6063-T5 | YKK AP AMERICA INC. |
| 2A | BE9-4503 | AS REQD. | FRAME JAMB (FIX. LITE) | 6063-T5 | YKK AP AMERICA INC. |
| 3 | E9-4526 | 4/ WDW | GLAZING STOP (VENT) | 6063-T5 | YKK AP AMERICA INC. |
| 4 | E9-4527 | 4/ WDW | GLAZING STOP COVER (VENT) | 6063-T5 | YKK AP AMERICA INC. |
| 5 | E9-4524 | 4/ WDW | GLAZING STOP (FIX. LITE) | 6063-T5 | YKK AP AMERICA INC. |
| 6 | E9-4525 | 4/ WDW | GLAZING STOP COVER (FIX. LITE) | 6063-T5 | YKK AP AMERICA INC. |
| 7 | BE9-4534 | 4/ WDW | VENT STILE | 6063-T5 | YKK AP AMERICA INC. |
| 8 | BE9-4512 | AS REQD. | HORIZ. IMPOST (X/X) | 6063-T5 | YKK AP AMERICA INC. |
| 9 | BE9-4509 | AS REQD. | HORIZ. IMPOST (X/O OR O/X) | 6063-T5 | YKK AP AMERICA INC. |
| 10 | E9-4513 | AS REQD. | EXTERIOR GLAZING LEG | 6063-T5 | YKK AP AMERICA INC. |
| 11 | E2-0625 | AS REQD. | BULB WEATHERSTRIPPING | PVC | YKK AP AMERICA INC. |
| 12 | E2-0051 | AS REQD. | BULB W'STRIPPING AT MULLION | PVC | YKK AP AMERICA INC. |
| 13 | E2-0359 | AS REQD. | ARROW SPACER, 1" LONG | EPDM SPONGE | AT 3" FROM ENDS & 10" O.C. MAX. |
| 14 | E2-0670 | AS REQD. | BACKER TAPE FOR 1/8" F.C. | POLYURETHANE | - |
| 14A | E2-0648 | AS REQD. | 1/8" EXTERIOR GASKET | EPDM SPONGE | - |
| 15 | E2-0626 | AS REQD. | SETTING BLOCKS (VENT) | EPDM | 1/4" X 1-3/16" X 4" LONG |
| 16 | E2-0647 | AS REQD. | SETTING BLOCKS (FIX. LITE) 12" FROM EACH END | EPDM | 11/16" X 1-1/8" X 4" LONG |
| 17 | E2-0133 | AS REQD. | SIDE BLOCKS (FIX. LITE) | EPDM | - |
| 18 | E2-0646 | AS REQD. | SETTING BLOCKS | EPDM | 13/16" X 1-3/16" X 4" LONG |
| 19 | 4K-14208 | 2/ VENT | 16", 4-BAR SCISSOR HINGE | - | YKK AP AMERICA INC. |
| 21 | E1-1786 | 1/ CORNER | CORNER BLOCK, .684" LONG | 6063-T5 | YKK AP AMERICA INC. |
| 21A | E1-1787 | 1/ CORNER | CORNER BLOCK, .292" LONG | 6063-T5 | YKK AP AMERICA INC. |
| 22 | #10 X 1" | 2/ CORNER | FRAME ASSEMBLY SCREWS | STEEL | PH SMS |
| 23 | E1-1781 | 2/ VENT | HINGE BASE | 6063-T5 | SECURED TO JAMB W/ (3) #10 X 3/4" FH SMS |
| 25 | E3-1127 | 1/ WDW | WEEP COVER | NYLON | AT WEEP SLOTS (AT FIXED ONLY) |
| 26 | BE9-4566 | AS REQD. | FILLER PLATE, 3" LONG AT ANCHOR LOCATIONS | 6063-T5 | YKK AP AMERICA INC. |
| 26A | BE9-4529 | AS REQD. | STRAP ANCHOR, 4-1/2" LONG AT ANCHOR LOCATIONS | 6063-T5 | YKK AP AMERICA INC. |
| 27 | #8 X 1/2" | - | GLAZING STOP SCREWS | - | PH SMS AT 3" FROM ENDS & 10" O.C. |
| 28 | #10 X 1" | - | GLAZING STOP SCREWS | - | PH SMS AT 3" FROM ENDS & 10" O.C. |
| 29 | #10 X 3/8" | 3/ HINGE | HINGE INSTALLATION SCREWS | - | PH SMS |
| 30 | #10 X 3/8" | 3/ HINGE | HINGE INSTALLATION SCREWS | - | FH SMS |
| 31 | E9-8431 | AS REQD. | STRAP ANCHOR COVER | 6063-T5 | YKK AP AMERICA INC. |

YKK EXTRUSIONS Fy (MIN) = 28,350 PSI
POURED AND DEBRIGED THERMAL BREAK MATERIAL IS URETHANE



Engr: DR. HUMAYOON FAROOQ
STRUCTURES
FLA. PE # 16557
C.A.N. 3538

JAN 25 2008

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 07-1114-09
Expiration Date FEB 15, 2014
By: [Signature]
Miami Dade Product Control
Division

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W03-68YKK

YOW 225 TUH ALUM PROJECT OUT WDW. (L.M.I.)
YKK AP AMERICA INC.
332 FIRETOWER ROAD
DUBLIN, GEORGIA 31021
TEL.(478) 277-1955 FAX(478) 277-1978

| no | date | by | description |
|----|----------|------------------------|-------------|
| A | 10.31.03 | REV. PER BCCO COMMENTS | |
| B | 04.07.05 | GLAZING OPTIONS ADDED | |
| C | 09.18.07 | GENERAL REVISION | |
| D | 01.14.08 | REV. PER BCCO COMMENTS | |

revisions:
date: 08-15-03
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W03-68
sheet 7 of 7