



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)

www.miamidade.gov/buildingcode

E.S. Windows, Inc.
10653 NE Quaybridge CT.
Miami, FL 33138

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: Series 1100 Aluminum Single Hung Window –S.M.I.

APPROVAL DOCUMENT: Drawing No. **W05-20**, titled "Series 1100 Alum Single Hung Window (S.M.I.)", sheets 1 through 6 of 6, prepared by AL-Farooq Corporations, dated 04/26/05 and last revised on March 25, 2010, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: 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 & renews** NOA # **06-0316.03** consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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



NOA No 09-1008.02
Expiration Date: August 11, 2015
Approval Date: July 21, 2010
Page 1

6/24/10

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS (Transferred from file # 06-0316.03)

1. Manufacturer's die drawings and sections.
2. Drawing No. **W05-20**, titled "Series 1100 Alum Single Hung Window (S.M.I.)", sheets 1 through 6 of 6, prepared by AL-Farooq Corporations, dated 04/26/05 and last revised on March 25, 2010, signed and sealed by Javad Ahmad, P.E.

(This revision consists of addition of .035SGP, sweep locks, updating of glazing to ASTM E-1300-04 and anchor verification to FBC-2007 revision)

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

Along with marked-up drawings and installation diagram of an aluminum Single Hung window, prepared by Fenestration Testing Lab., Test Report No. **FTL 5653** dated 10/24/08, signed and sealed by Carlos S. Rionda, P.E.

2. Additional test per TAS 202-94 & 201/203-94(SMI), along with marked-up drawings and installation diagram of an aluminum Single Hung window, prepared by Hurricane Engineering & Testing, Inc., Test Report No. **HETI-05-1432** dated 01/28/05 & **HETI-05-1945**, dated 03/28/05, signed and sealed by Ivonne Ghia, P.E. (transferred from file # 06-0316.03)

C. CALCULATIONS

1. Anchor Verification Calculations complying w/ FBC 2007, prepared by AL-Farooq Corporation, dated 08-21-09, signed and sealed by Arshad Viqar, P.E.
2. Lock rails extrusion structural properties comparison dated Dec 19, 2007, signed and sealed by Dr. Humayoun Farooq, P. E.
3. Glazing Complies with ASTM E1300-02 & -04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

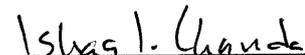
1. Notice of Acceptance No. 09-0312.03, issued to E.I. DuPont DeNemours for "SentryGlas Interlayer ® SGP", expiring on 01/14/12.
2. Notice of Acceptance No. 09-0312.02, issued to E.I. DuPont DeNemours for "Dupont Butacite ® PVB", expiring on 12/11/10.

F. STATEMENTS

1. Statement letters of Compliance and "No financial interest", both dated 03/29/10, signed and sealed by successor engineer Javad Ahmad, P.E.
2. Statement of Lab compliance letter, part of test report.

G. OTHER

1. This NOA **revises & renews** NOA # **06-0316.03 (05-0705.01)**, expiring 08-11-2010.
2. BCCO approved test proposals # 02-0929 dated 01/09/03, Feb. 14, 2006 for "sill base adapter" and MR/Lock test dated Feb. 01, 2008.



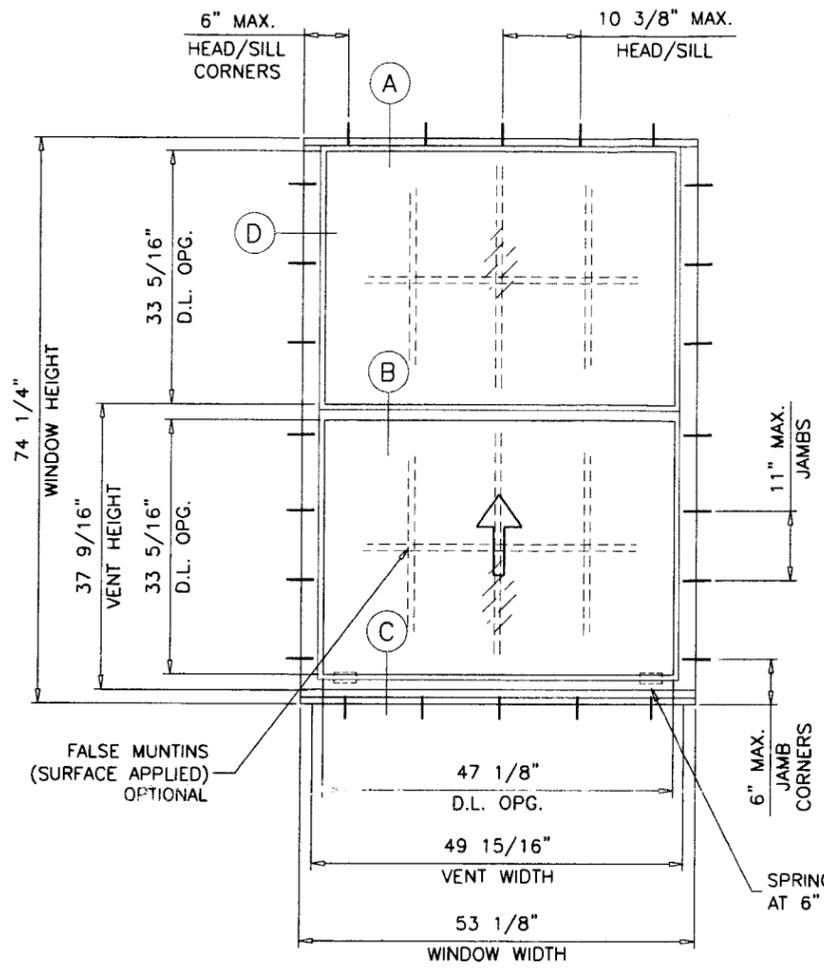
Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 09-1008.02

Expiration Date: August 11, 2015

Approval Date: July 21, 2010

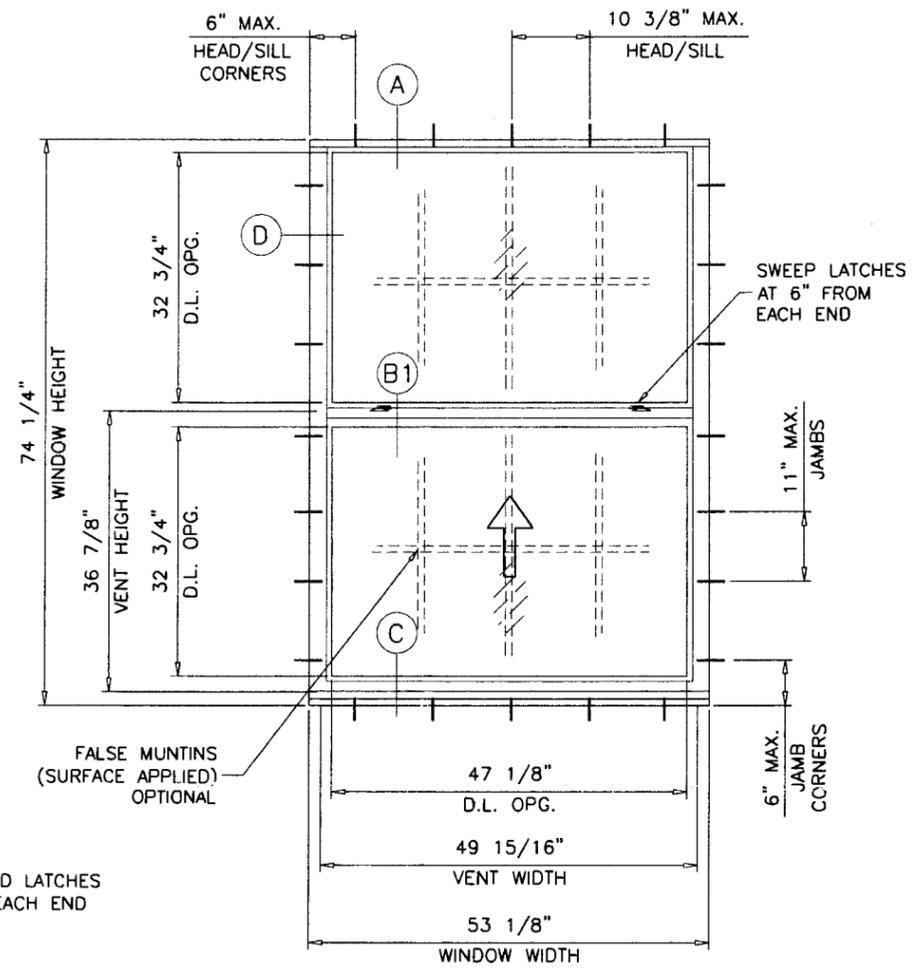


TYPICAL ELEVATION

LATCHES AT BOTTOM RAIL:

DAYLITE OPENINGS:

DLO WIDTH = WINDOW WIDTH - 6.000
 DLO HEIGHT = $\frac{\text{WINDOW HT} - 7.625}{2}$



TYPICAL ELEVATION

LATCHES AT MTG. RAIL:

DAYLITE OPENINGS:

DLO WIDTH = WINDOW WIDTH - 6.000
 DLO HEIGHT = $\frac{\text{WINDOW HT} - 8.750}{2}$

SERIES-1100 ALUMINUM SINGLE HUNG WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG 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.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2007 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 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 2007 FLORIDA BLDG. CODE SECTION 2003.8.4.

THESE WINDOWS ARE RATED FOR SMALL MISSILE IMPACT. MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS REQUIRED FOR INSTALLATIONS UP TO 30 FT. OF GRADE. SHUTTERS NOT REQD. FOR INSTALLATIONS ABOVE 30 FT. OF GRADE.

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538

MAR 25 2010

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 09-1008-02
 Expiration Date AUG 11, 2015
 By: *Ishaq I. Chaudhry*
 Miami-Dade Product Control
 Division

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 \ W05-20ESW

SERIES-1100 ALUM SINGLE HUNG WINDOW (S.M.I.)
E.S. WINDOWS, LLC
 5220 N.W. 72 AVE. BAY #4
 MIAMI, FL. 33166
 TEL. (305) 624-7775 FAX. (305) 624-7777

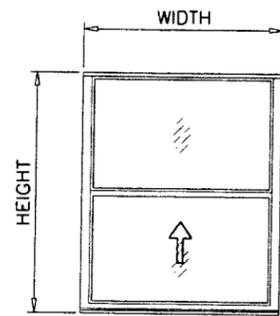
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B	07.14.09	UPDATED FOR 2007 FBC
C	03.12.10	REV. PER BCCO COMMENTS

date: 04-26-05
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W05-20
 sheet 1 of 6

EQUAL LITES WINDOWS DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26" (3)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
37"		80.0	120.0	80.0	140.0
42"		80.0	120.0	80.0	140.0
48"		80.0	120.0	80.0	140.0
53-1/8"		80.0	120.0	80.0	140.0
19-1/8"	38-3/8" (4)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
37"		80.0	120.0	80.0	140.0
42"		80.0	120.0	80.0	140.0
48"		80.0	120.0	80.0	140.0
53-1/8"		80.0	120.0	80.0	140.0
19-1/8"	50-5/8" (5)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
37"		80.0	120.0	80.0	140.0
42"		80.0	120.0	80.0	140.0
48"		80.0	120.0	80.0	140.0
53-1/8"		80.0	120.0	80.0	140.0
19-1/8"	58" (6)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
37"		80.0	120.0	80.0	140.0
42"		80.0	120.0	80.0	140.0
48"		80.0	120.0	80.0	140.0
53-1/8"		80.0	120.0	80.0	140.0
19-1/8"	63" (6)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
37"		80.0	120.0	80.0	140.0
42"		80.0	120.0	80.0	140.0
48"		80.0	120.0	80.0	140.0
53-1/8"		80.0	120.0	80.0	140.0
19-1/8"	74-1/4" (7)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
37"		80.0	120.0	80.0	140.0
42"		80.0	120.0	80.0	140.0
48"		80.0	120.0	80.0	140.0
53-1/8"		80.0	117.5	80.0	140.0

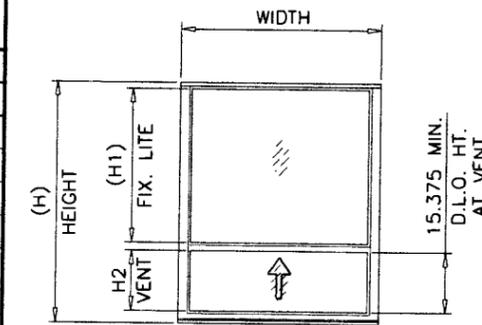
* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



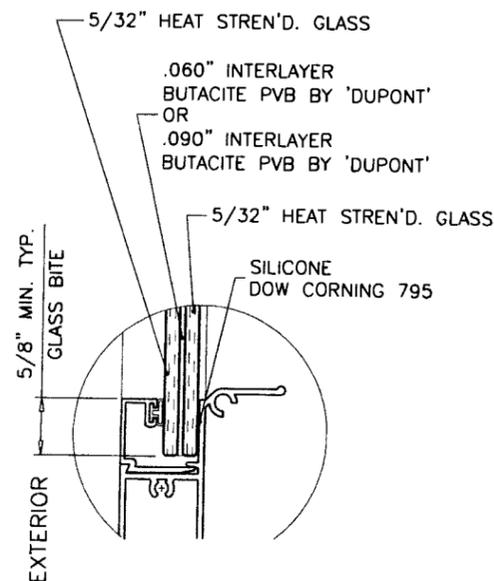
EQUAL LITES

UNEQUAL LITES (ORIEL TYPES) WINDOWS DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	50-5/8" (5)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
37"		80.0	120.0	80.0	140.0
42"		80.0	120.0	80.0	140.0
48"		80.0	120.0	80.0	140.0
53-1/8"		80.0	120.0	80.0	140.0
19-1/8"	58" (6)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
37"		80.0	120.0	80.0	140.0
42"		80.0	120.0	80.0	140.0
48"		80.0	120.0	80.0	140.0
19-1/8"	63" (6)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
37"		80.0	120.0	80.0	140.0
42"		80.0	120.0	80.0	140.0
19-1/8"	74-1/4" (7)	80.0	120.0	80.0	140.0
26-1/2"		80.0	120.0	80.0	140.0
32"		80.0	120.0	80.0	140.0
42"		80.0	120.0	80.0	140.0

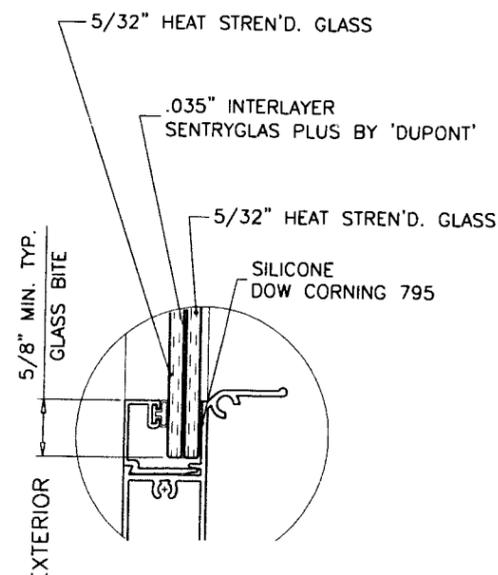
* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



UNEQUAL LITES (ORIEL TYPE)



GLASS TYPE 'A'



GLASS TYPE 'B'

GLAZING OPTIONS

ORIEL TYPE WITH LATCHES AT BOTTOM RAIL:

$$\text{FIXED LITE DLO HEIGHT (H1)} = H - 7.625 - H2$$

ORIEL TYPE WITH LATCHES AT MTG. RAIL:

$$\text{FIXED LITE DLO HEIGHT (H1)} = H - 8.750 - H2$$

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

MAR 25 2010

afC
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
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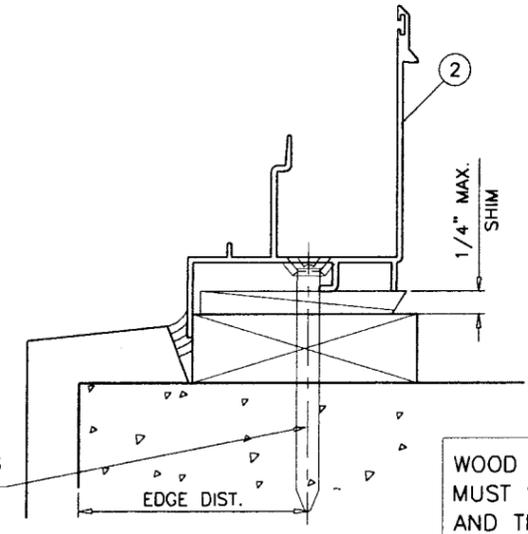
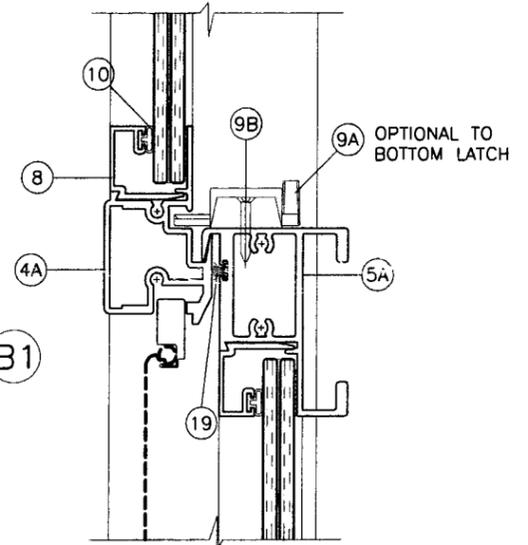
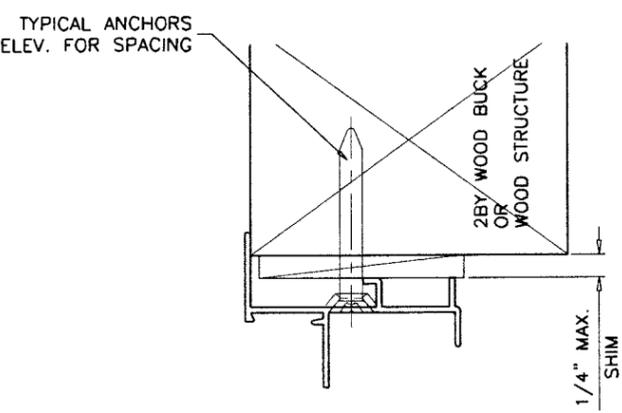
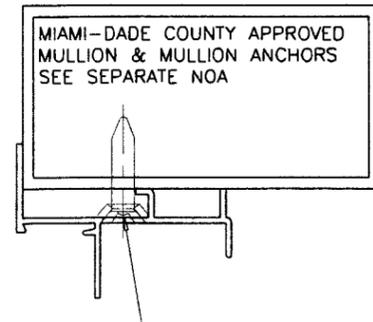
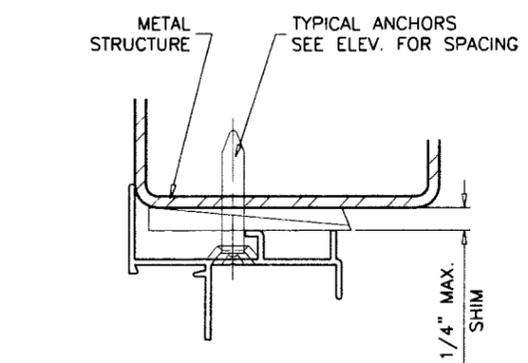
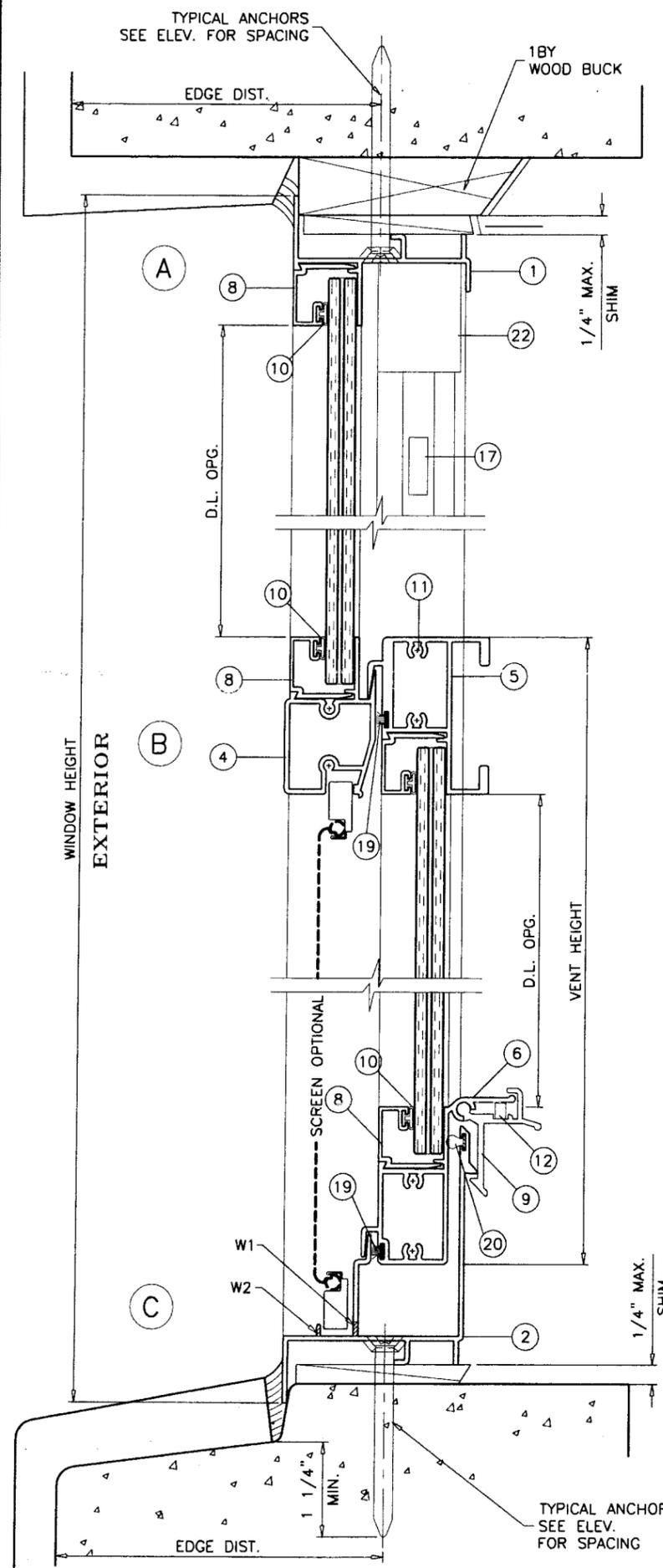
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no	date	description
A	03.03.06	FRAME ADAPTER ADDED
B	07.14.09	UPDATED FOR 2007 FBC
C	03.12.10	REV. PER BCCO COMMENTS

date: 04-26-05
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W05-20
sheet 2 of 6

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 09-1008-02
Expiration Date AUG 11, 2015
By Isheng I. Chande
Miami Dade Product Control
Division



WOOD BUCKS AND METAL STRUCTURE NOT BY E.S. WDW. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-3/8" 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

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO METAL STRUCTURES
 STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

#12 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
 (NO SHIM SPACE)

TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 1-5/8" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE f'c = 3000 PSI MIN.
 C-90 HOLLOW/FILLED BLOCK f'm = 2000 PSI MIN.

SEALANTS:
 ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SCHNEE MOREHEAD SEAM SEALER SM5504.

WEEPHOLES:
 W1 = 1-1/2" X 3/16" WEEPHOLES AT 4" FROM EACH END
 W2 = 1-5/16" NOTCH AT EACH END

PRODUCT RENEWED
 as complying with the Florida Building Code
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 Expiration Date 3/24/11, 2015
 By Ishag J. Chaudhry
 Miami Dade Product Control Division

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
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MAR 25 2010

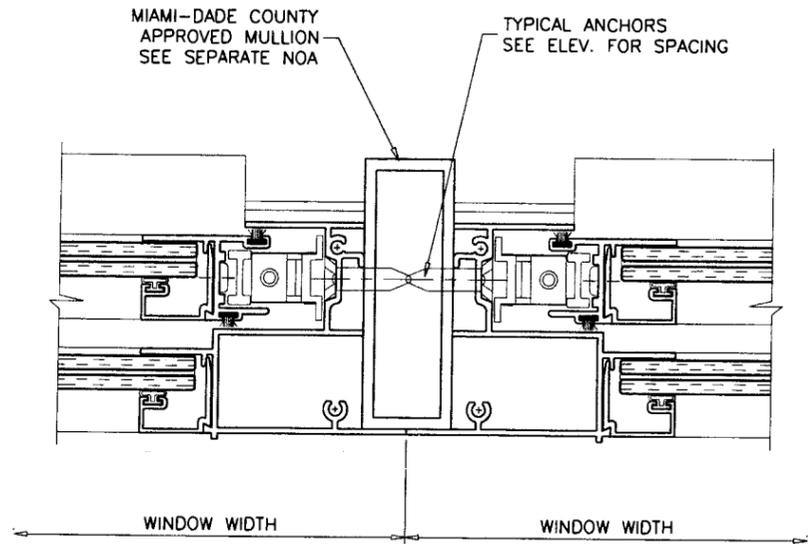
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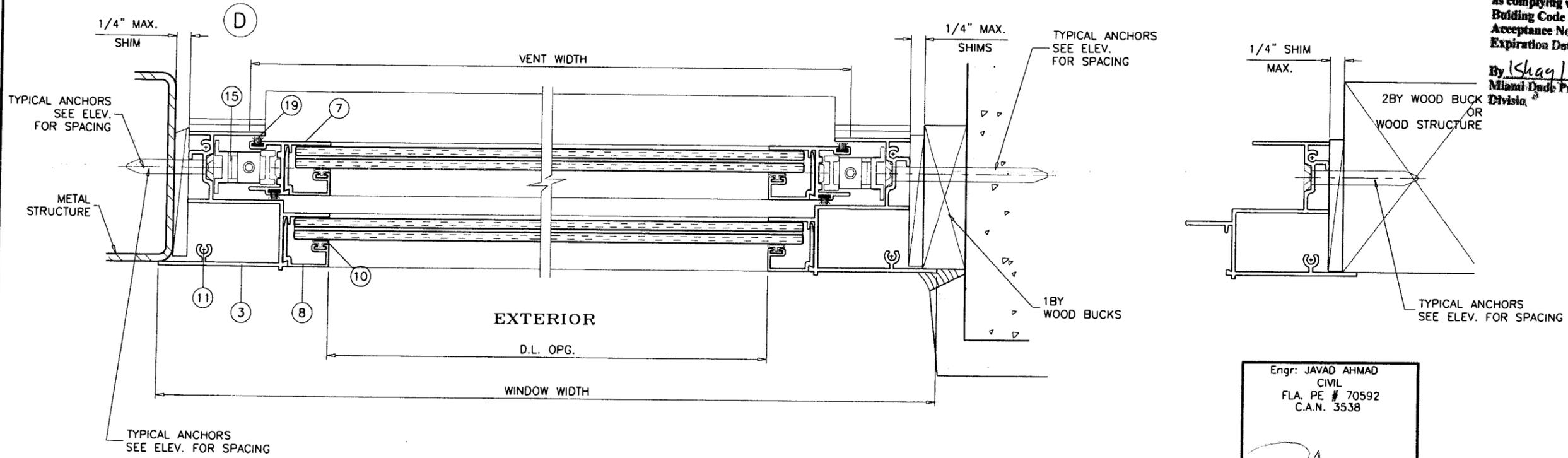
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date: 04-26-05
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W05-20
 sheet 3 of 6



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	ES1001	1	FRAME HEAD	6063-T6	-
2	ES1101	1	FRAME SILL	6063-T6	-
3	ES1003	2	FRAME JAMB	6063-T6	-
4	ES1005	1	FIXED MTG. RAIL (FOR SPRING LATCH)	6063-T6	-
4A	ES1051	1	FIXED MTG. RAIL (FOR SWEEP LATCH)	6063-T6	-
5	ES2004	1	VENT TOP RAIL (FOR SPRING LATCH)	6063-T6	-
5A	ES1053	1	VENT TOP RAIL (FOR SWEEP LATCH)	6063-T6	-
6	ES1006	1	VENT BOTTOM RAIL	6063-T6	-
7	ES1007	2	VENT SIDE RAIL	6063-T6	-
8	ES1103	AS REQD.	GLAZING BEAD	6063-T6	-
9	ES1009	2/ VENT	SPRING LOADED VENT LATCH	6063-T5	AT 12" FROM EACH END
9A	-	2/ VENT	SWEEP LATCH	ZAMAK	AT 12" FROM EACH END
9B	#8 X 1"	2/ LATCH	LATCH INSTALLATION SCREWS	-	FH SMS
10	ES1104	AS REQD.	GLAZING GASKET	NEOPRENE	-
11	#8 SMS	20/ WDW.	FRAME & VENT ASSEMBLY SCREWS	-	#8 X 1" P.H.
12	ES1012	1/ LATCH	LATCH SPRING	ST. STEEL	-
13	-	2/ VENT	BLOCK & TACKLE BALANCES	-	SERIES 120 BY BSI
14	103F	1/ BALANCE	BALANCE TOP GUIDE	NYLON	BY BSI (NOT SHOWN)
15	110F	1/ BALANCE	BALANCE BOTTOM GUIDE	NYLON	BY BSI
16	135	1/ BALANCE	BALANCE TERMINAL CLIP	ST. STEEL	(NOT SHOWN)
17	121	2	BALANCE TAKE OUT CLIP	PLATED STEEL	-
18	ES1011	2/ VENT	SASH CAM	CELCON	-
19	W23211NG	AS REQD.	VENT & FIXED RAIL W'STRIPPING	-	ULTRAFAB OR EQUIV.
20	Q300X190	AS REQD.	FRAME SILL W'STRIPPING	-	Q-LON2
21	-	1	SCREEN (OPTIONAL)	-	5/16" BOX
22	ES1013-1	2	SASH STOP	-	-
23	ES1505	-	FLUSH FRAME ADAPTER	6063-T6	OPTIONAL



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 09-1008-02
 Expiration Date AUG 17, 2015
 By Shayl Chandy
 Miami Dade Product Control
 Division

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 C.A.N. 3538

 MAR 25 2010

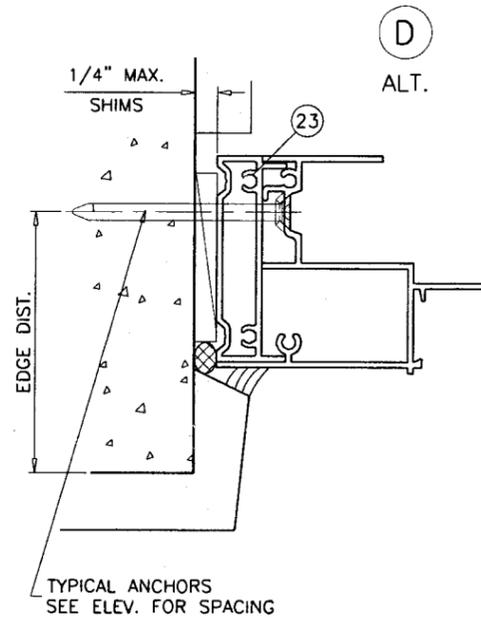
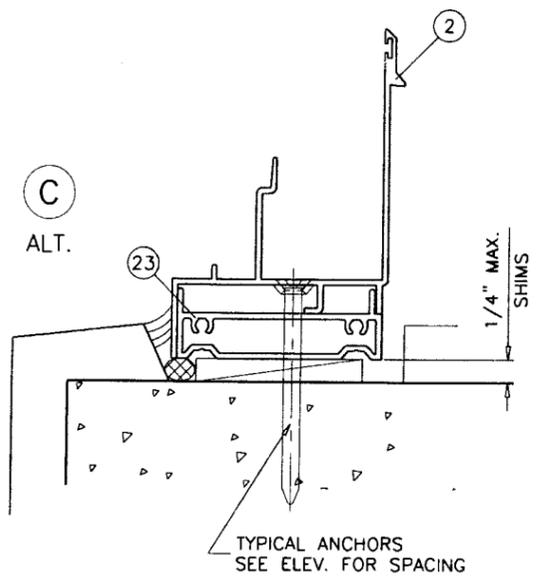
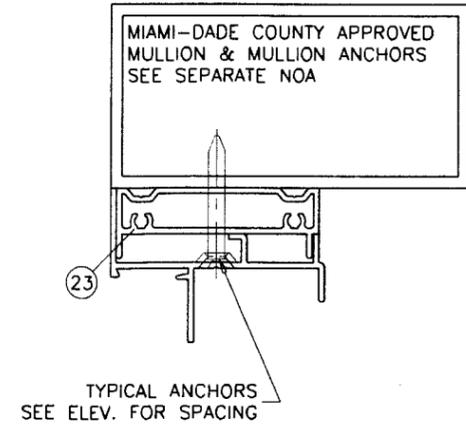
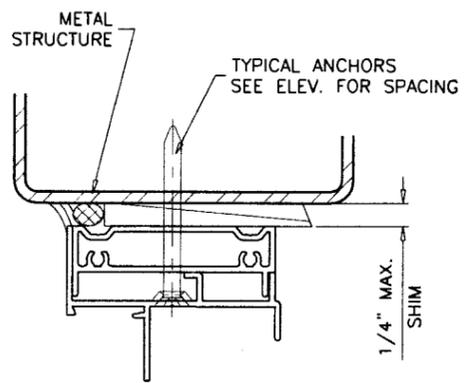
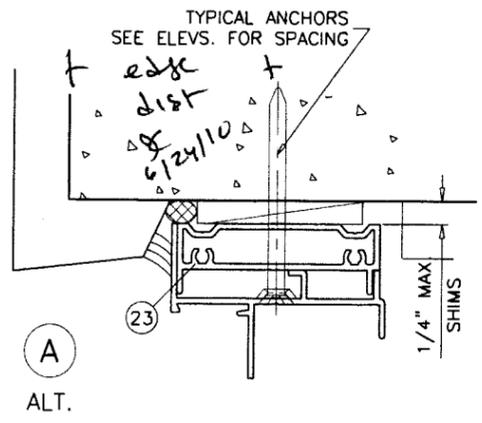
af c
AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP - ANL \ W05 - 20ESW

SERIES-1100 ALUM SINGLE HUNG WINDOW (S.M.I.)
E.S. WINDOWS, LLC
 5220 N.W. 72 AVE. BAY #4
 MIAMI, FL. 33166
 TEL. (305) 624-7775 FAX. (305) 624-7777

revisions:

no	date	by	description
A	03.03.06		FRAME ADAPTER ADDED
B	07.14.09		UPDATED FOR 2007 FBC
C	03.12.10		NO CHANGE THIS SHEET

date: 04-26-05
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:
 drawing no.
W05-20
 sheet 4 of 6



Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

JA

MAR 25 2010

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 09-1008-02
Expiration Date Aug 11, 2015

By: Ishag I. Chaudhry
Miami Dade Product Control
Division

af c

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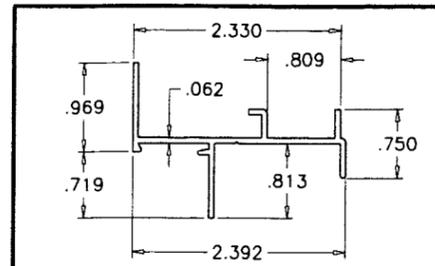
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Revisions:

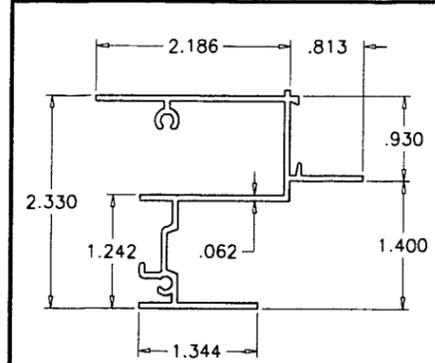
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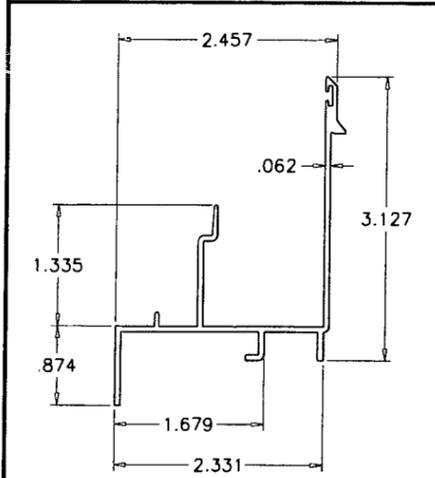
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sheet 5 of 6



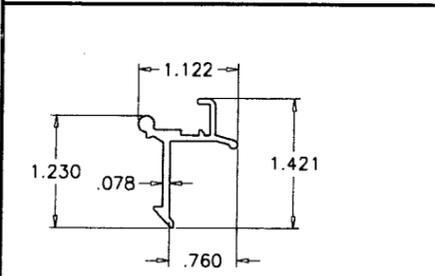
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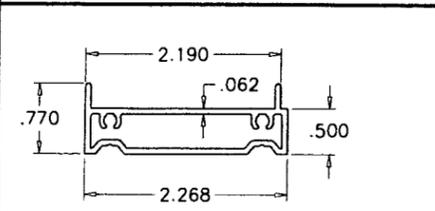
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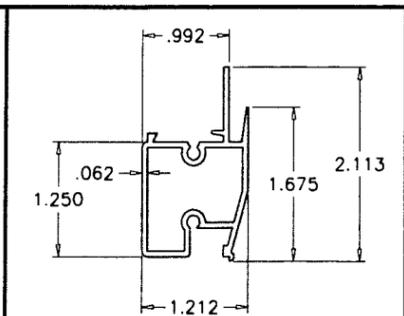
2 FRAME SILL



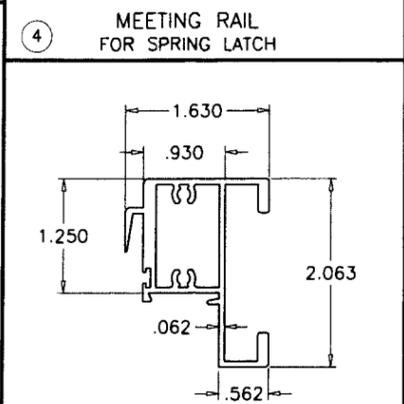
9 VENT LATCH



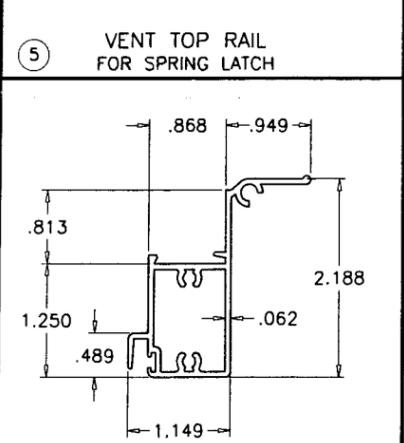
23 FLUSH FRAME ADAPTER



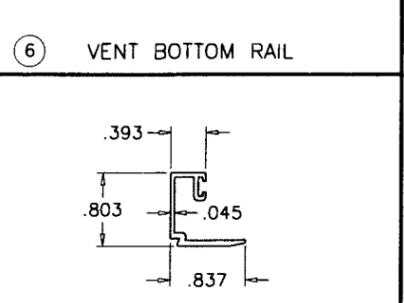
4 MEETING RAIL FOR SPRING LATCH



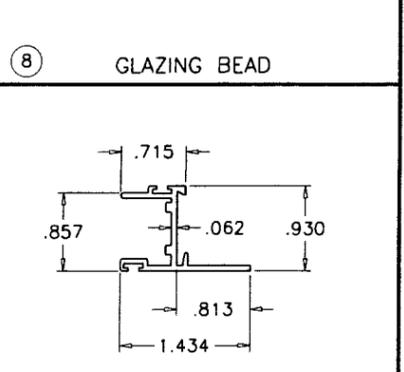
5 VENT TOP RAIL FOR SPRING LATCH



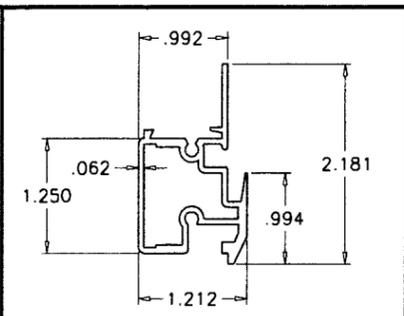
6 VENT BOTTOM RAIL



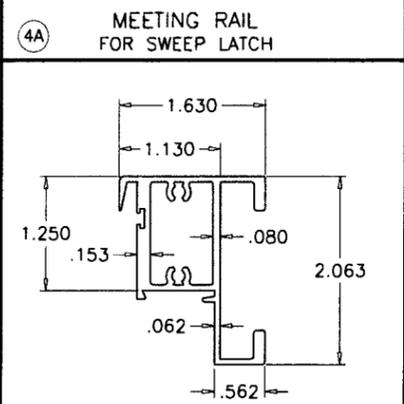
8 GLAZING BEAD



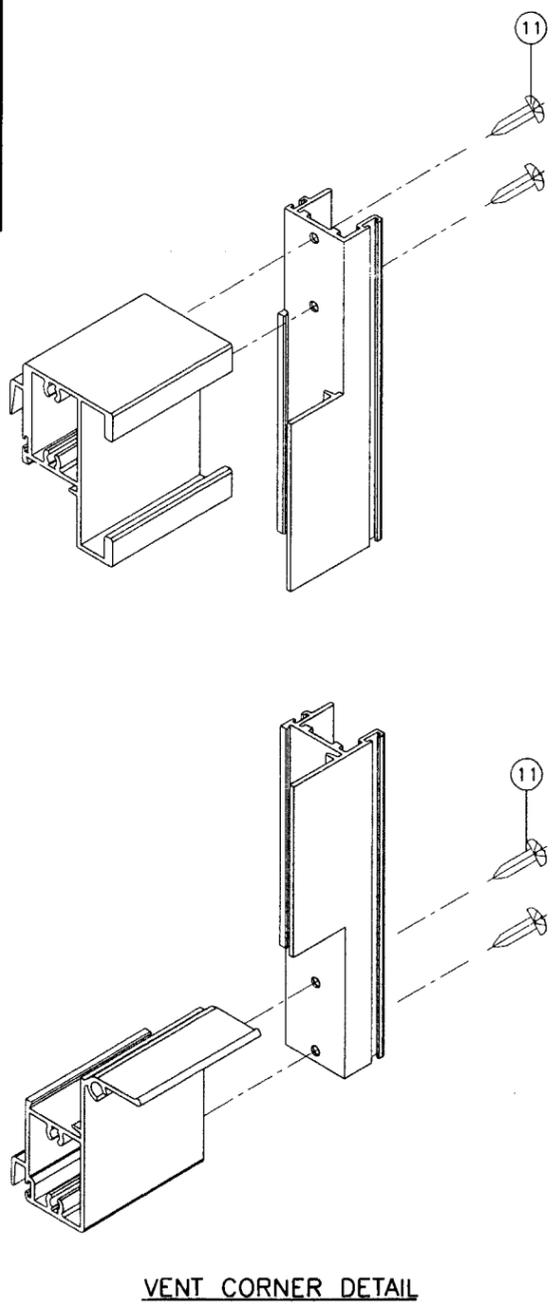
7 VENT SIDE RAIL



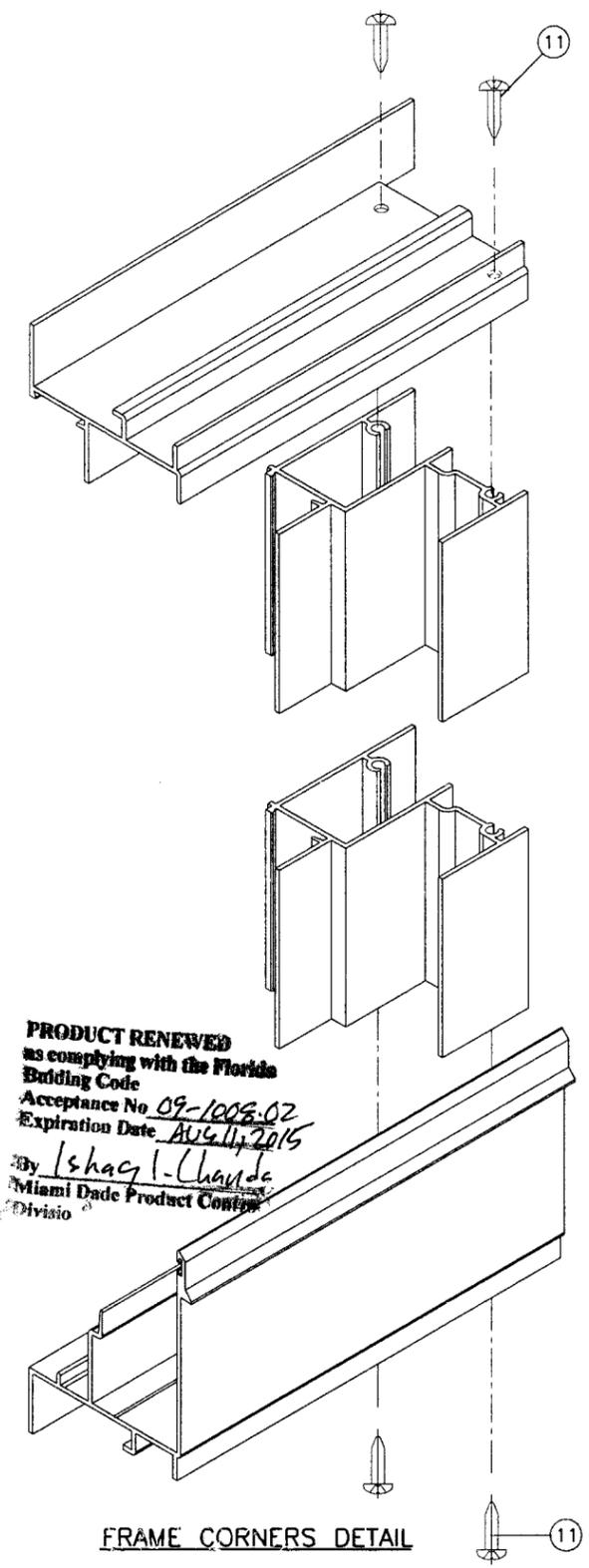
4A MEETING RAIL FOR SWEEP LATCH



5A VENT TOP RAIL FOR SWEEP LATCH



VENT CORNER DETAIL



FRAME CORNERS DETAIL

PRODUCT RENEWED
 as complying with the Florida
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 Expiration Date AUG 11, 2015
 By Ishag I. Chaudhry
 Miami Dade Product Control
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JAVAD AHMAD
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