



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.miamidadecounty.gov/buildingcode](http://www.miamidadecounty.gov/buildingcode)

## NOTICE OF ACCEPTANCE (NOA)

E.S. Windows, LLC  
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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION:** Series "3000" Aluminum Outswing French Doors w /wo Sidelites

**APPROVAL DOCUMENT:** Drawing No. **W04-51**, titled "series -3000 Alum Outswing French Doors (LMI)", sheets 1, 2, 2.1, 2.2 through 6 & 6.1 of 7, prepared by Al-Farooq Corporation, dated 06-10-04 and last revised on MAR 25, 2010, signed and sealed by Javad Ahmad, 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. Lower Design Pressures of Door, sidelites, hardware, glass and threshold options shall control.  
2. See sheet 2.1 for single sidelite and sheet 2.2 for doors with sidelites options

**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 # **09-0825.04** 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 09-1217.03  
Expiration Date: September 16, 2014  
Approval Date: May 05, 2010  
Page 1

4/20/10

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS** (transferred from file # **09-0825.04**)

1. Manufacturer's die drawings and sections.
2. Drawing No. **W04-51**, titled "series -3000 Alum Outswing French Doors (LMI)", sheets 1, 2, 2.1, 2.2 through 6 & 6.1 of 7, prepared by Al-Farooq Corporation, dated 06-10-04 and last revised on MAR 25, 2010, signed & sealed by Javad Ahmad, P.E.

**B. TESTS** 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) Large 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 and TAS 202-94

along with marked-up drawing and installation diagram of aluminum outswing French door w/ Sidelites, prepared by Fenestration Testing Laboratory, Inc., No. **FTL-5938**, dated 10/01/09, signed and sealed by Julio E. Gonzales, P.E.

Note: This test report has been revised, reviewed, signed and sealed on 03/29/10 by Jorge A. Causo, P.E.

2. **Additional Test Reports:** Test reports issued by Fenestration Testing Laboratory, Inc Test report No(s) **FTL-3947 & FTL-3955** per TAS 201, 202 & 202-94, dated 02/04/04, both signed and sealed by Edmundo J. Largaespada, P.E. and test report No. **FTL-5164** per TAS 201/203-94, issued by Fenestration Testing Laboratory, Inc, dated 08/01/07, signed & sealed by Carlos S. Roinda, P. E. (transferred from file # **09-0825.04**)

**C. CALCULATIONS** (transferred from file # **09-0825.04**)

1. Anchor verification calculations and structural analysis, prepared by Al Farooq Corporation, dated 12/08/09 signed and sealed by Arshad Viqar, P.E.
2. Glazing complies w/ ASTM-E-1300-02 &-04

**D. QUALITY ASSURANCE BY:**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **05-1208.02** issued to E.I. DuPont DeNemours for "Butacite PVB Interlayer", expiring on 12-11-2010
2. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont Sentry Glass® Interlayer", expiring on 01/14/12.

**F. STATEMENTS**

1. Statement letter of conformance and "No financial interest" issued by Al-Farooq Corp., dated 03/25/10, signed and sealed by Javad Ahmad, P.E.
2. Addendum letter dated April 15, 2010, issued by Fenestration testing lab, signed & sealed by Jorge A. Causo, P. E.
3. Laboratory compliance statements, part of the above referenced test reports.

**G. OTHER**

1. This NOA revises NOA # **09-0825.04**, expiring September 16, 2014.
2. Test proposal No(s) #09-0225 dated 06/17/09, # 06-0411 dated 07/31/07 & 02/06/06 approved by BCCO.

Ishaq I. Chanda

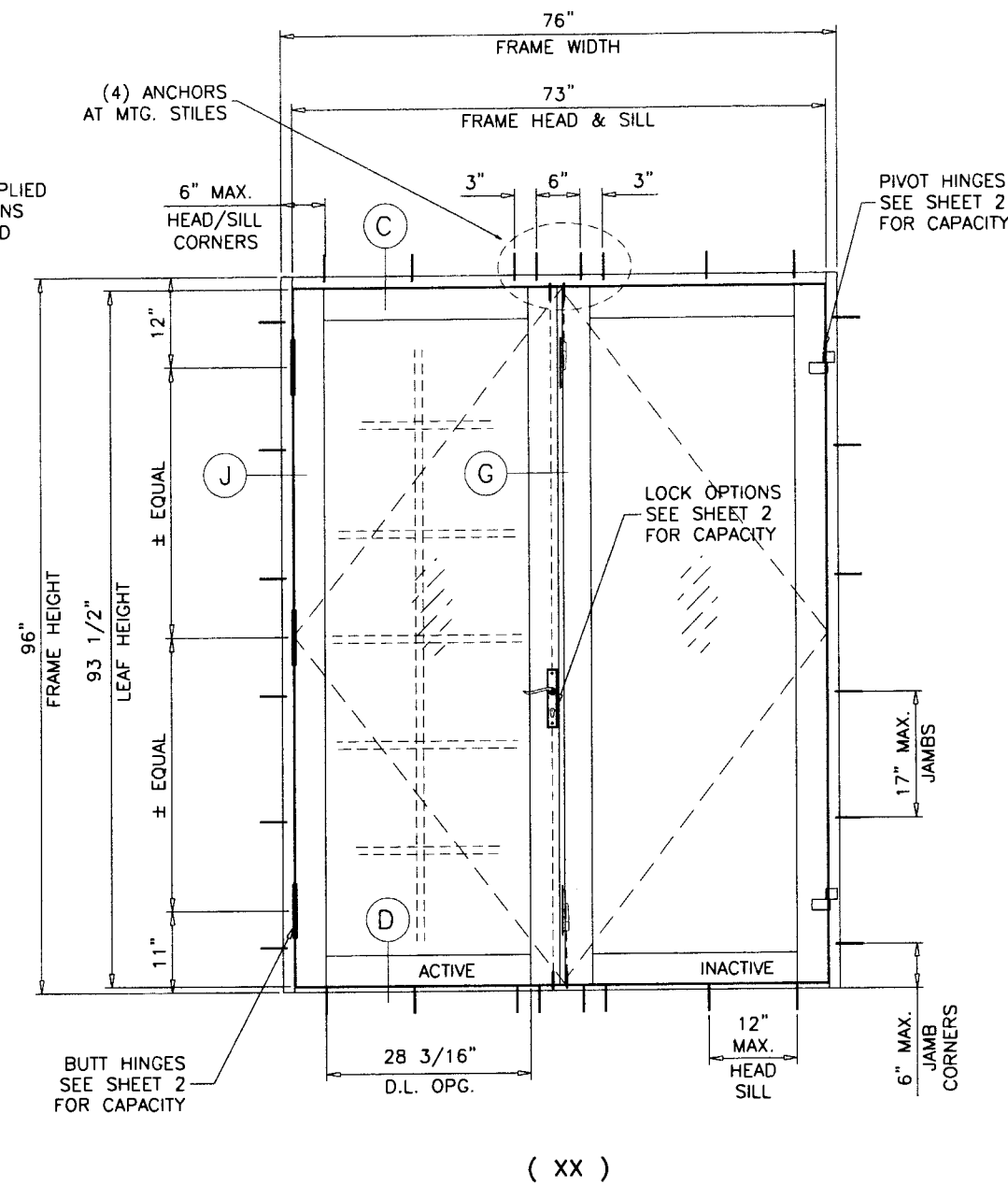
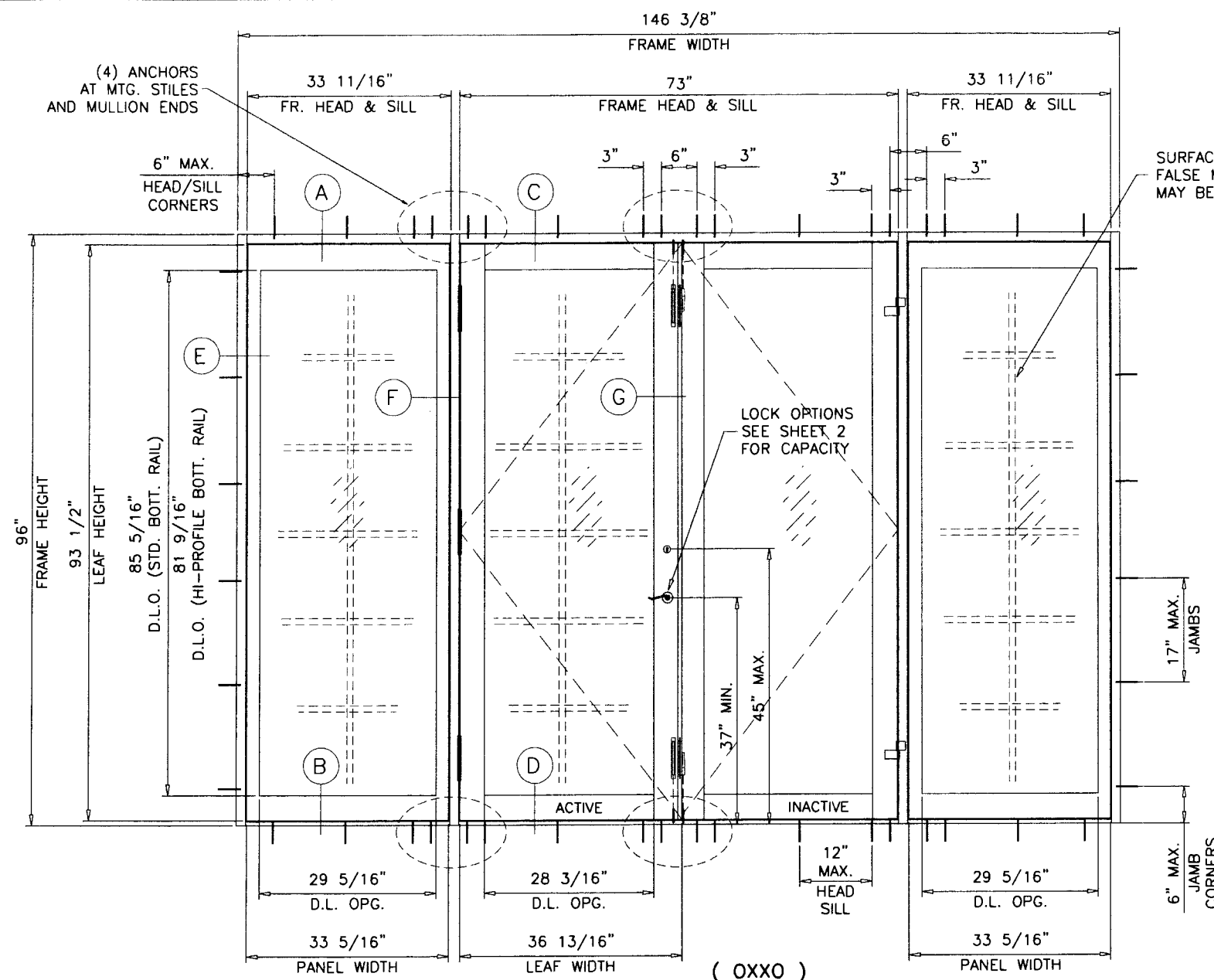
Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 09-1217.03

Expiration Date: September 16, 2014

Approval Date: May 05, 2010



TYPICAL ELEVATIONS  
TESTED UNITS

# SERIES-3000 ALUM OUTSWING FRENCH DOOR

APPROVAL APPLIES TO SINGLE (X) AND DOUBLE (XX) LEAF DOORS WITH OR WITHOUT SIDELITES. SIDE LITES CAN BE ON ONE OR BOTH SIDES OF DOOR.

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.

## INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** FOR SINGLE (X) AND DOUBLE (XX) DOOR CAPACITIES SEE SHEET 2. USE LOWER VALUES FROM GLASS, HINGES, LOCK AND FRAME SILL OPTIONS USED.
- STEP 3** FOR SIDELITE PANEL (O) CAPACITY SEE SHEET 2.1.
- STEP 4** FOR SIDELITE COMBINATION WITH DOOR OR SIDELITE SEE MULLION CAPACITY CHART ON SHEET 2.2.
- STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

NOTE:  
FLUSH BOLTS ARE CONCEALED ON INACTIVE LEAF AND EXPOSED ON ACTIVE LEAF  
SEE DETAIL G ON SHEET 5.

THESE PRODUCTS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

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

MAR 25 2010

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 09-1217-03  
Expiration Date 09-16-2014  
By Ishag J. Llanusa  
Miami Dade Product Control  
Division

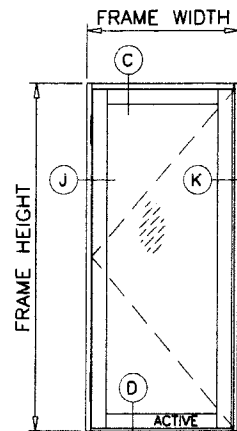
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W04-51ESW

SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.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                  |
|------------|----|----------|----|------------------------------|
|            | C  | 08.17.07 |    | REV. PER BCCO COMMENTS       |
|            | D  | 08.14.09 |    | GLASS 'D' & BOTT. RAIL ADDED |
|            | E  | 11.23.09 |    | UPDATED FOR 2007 FBC         |
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dr. by: HAMID  
chk. by:

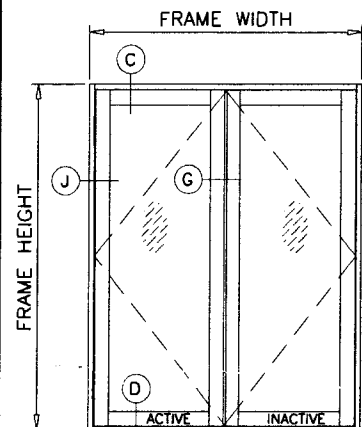
drawing no.  
**W04-51**  
sheet 1 of 7



### 'X' DOORS

| DESIGN LOAD CAPACITY - PSF (GLASS AND HARDWARE OPTIONS) |                       |                |          |           |          |          |          |            |          |            |          |            |          |            |          |
|---------------------------------------------------------|-----------------------|----------------|----------|-----------|----------|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|
| FRAME HEIGHT<br>INCHES                                  | FRAME WIDTH<br>INCHES | GLASS TYPES    |          |           |          |          |          | HINGES     |          |            |          | LOCKS      |          |            |          |
|                                                         |                       | 'A', 'B' & 'D' |          | 'C' & 'F' |          | 'E'      |          | OPTION '1' |          | OPTION '2' |          | OPTION '1' |          | OPTION '2' |          |
|                                                         |                       | EXT. (+)       | INT. (-) | EXT. (+)  | INT. (-) | EXT. (+) | INT. (-) | EXT. (+)   | INT. (-) | EXT. (+)   | INT. (-) | EXT. (+)   | INT. (-) | EXT. (+)   | INT. (-) |
| 95-3/4                                                  | 37-1/2                | 70.0           | 80.0     | 90.0      | 90.0     | 100.0    | 120.0    | 90.0       | 90.0     | 100.0      | 120.0    | 70.0       | 80.0     | 100.0      | 120.0    |
|                                                         | 39-5/8                | -              | -        | 90.0      | 90.0     | 100.0    | 120.0    | 90.0       | 90.0     | 100.0      | 120.0    | 70.0       | 80.0     | 100.0      | 120.0    |

NOTE:  
LOWEST VALUE SELECTED FROM OPTION WILL APPLY.



### 'XX' DOORS

| DESIGN LOAD CAPACITY - PSF (GLASS AND HARDWARE OPTIONS) |                       |                |          |           |          |          |          |            |          |            |          |            |          |            |          |
|---------------------------------------------------------|-----------------------|----------------|----------|-----------|----------|----------|----------|------------|----------|------------|----------|------------|----------|------------|----------|
| FRAME HEIGHT<br>INCHES                                  | FRAME WIDTH<br>INCHES | GLASS TYPES    |          |           |          |          |          | HINGES     |          |            |          | LOCKS      |          |            |          |
|                                                         |                       | 'A', 'B' & 'D' |          | 'C' & 'F' |          | 'E'      |          | OPTION '1' |          | OPTION '2' |          | OPTION '1' |          | OPTION '2' |          |
|                                                         |                       | EXT. (+)       | INT. (-) | EXT. (+)  | INT. (-) | EXT. (+) | INT. (-) | EXT. (+)   | INT. (-) | EXT. (+)   | INT. (-) | EXT. (+)   | INT. (-) | EXT. (+)   | INT. (-) |
| 95-3/4                                                  | 71-3/4                | 70.0           | 80.0     | 90.0      | 90.0     | 90.0     | 90.0     | 90.0       | 90.0     | 90.0       | 90.0     | 70.0       | 80.0     | 90.0       | 90.0     |
|                                                         | 76                    | -              | -        | 90.0      | 90.0     | 90.0     | 90.0     | 90.0       | 90.0     | 90.0       | 90.0     | 70.0       | 80.0     | 90.0       | 90.0     |

#### HINGES:

##### OPTION #1:

THREE PIECE ALUM BUTT HINGE BY 'E.S. WINDOWS'  
(3) HINGES PER LEAF AT 11" FROM TOP & BOTTOM  
AND AT MIDSPAN  
FASTENED TO DOOR FRAME AND LEAF WITH  
#10 X 1" FH SMS  
(6) SCREWS AT FRAME, (5) SCREWS AT LEAF

##### OPTION #2:

FACE MOUNT 2 WING PIVOT HINGE BY 'MASTER ACCESSORIES'  
WITH EXTRUDED ALUMINUM BASE, DIE CAST ALUMINUM  
COVER PLATES, ST. STEEL PIVOTS AND GALV. STEEL  
BRUSHES AND SCREWS  
(2) HINGES PER LEAF AT 12" FROM TOP & BOTTOM  
FASTENED TO DOOR FRAME AND LEAF WITH  
5/16-24 X 1" FH MS (2) PER WING

#### LOCKING HARDWARE:

##### ACTIVE LEAF:

##### OPTION #1:

SURFACE MOUNT DEAD BOLT LOCK BY 'YALE'  
AT 45" FROM BOTTOM, KEY OPERATED ON  
EXTERIOR AND THUMB TURN ON INTERIOR  
FASTENED TO ACTIVE LEAF LOCK STILE WITH  
(2) 1/4-28 X 2-1/2" OH MS  
LEVER TYPE METALLIC HANDLE AT 37" FROM  
BOTTOM, FASTENED TO ACTIVE LEAF LOCK STILE  
WITH (2) #8-32 X 1-3/4" PH MS.

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'  
MANUALLY OPERATED LEVERS MOUNTED ON STILE  
FACE, LOCATED AT 12" FROM TOP AND BOTTOM  
FASTENED TO LOCK STILE WITH  
#8 X 3/4" FH SMS (2) SCREWS PER BOLT

##### OPTION #2:

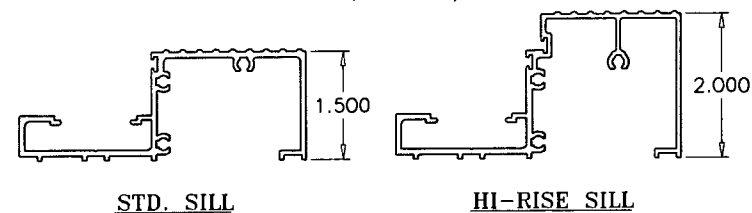
3 POINT LOCK SYSTEM BY 'INTERLOCK' AT 39"  
FROM BOTTOM  
HANDLE ACTIVATES DEAD BOLT AND SHOOT BOLTS  
ENGAGING AT HEAD AND SILL  
KEY OPERATED ON EXTERIOR AND THUMB TURN ON  
INTERIOR  
FASTENED TO ACTIVE LEAF LOCK STILE WITH  
(2) #8-32 X 2" OH MS

##### INACTIVE LEAF

CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.'  
MANUALLY OPERATED LEVERS MOUNTED ON  
INSIDE FACE OF LEAF STILE LOCATED AT  
12" FROM TOP AND BOTTOM  
FASTENED TO LOCK STILE WITH  
#8 X 3/4" FH SMS (2) PER BOLT

#### WATER INFILTRATION LIMITATIONS:

WHERE WATER INFILTRATION RESISTANCE IS REQUIRED  
LIMIT EXTERIOR LOADS FOR ALL CASES AS FOLLOWS  
STD. SILL = +70.0 PSF (X & XX DOORS)  
HI-RISE SILL = +90.0 PSF (XX DOORS)  
+120.0 PSF (X DOORS)



#### D.L. OPENINGS:

D.L.O. HEIGHT = LEAF HEIGHT - 8.1875" (STD. BOT. RAIL)  
D.L.O. HEIGHT = LEAF HEIGHT - 11.9375" (HI RISE BOT. RAIL)  
D.L.O. WIDTH = LEAF WIDTH - 8.625"

#### WIDTHS:

| NOMINAL WIDTH | FRAME WIDTH | LEAF WIDTH | DAYLITE OPG. |
|---------------|-------------|------------|--------------|
| 2/6 (X)       | 31-1/2"     | 28-11/16"  | 20-1/16"     |
| 3/0 (X)       | 37-1/2"     | 34-11/16"  | 26-1/16"     |
| 3/4 (X)       | 39-5/8"     | 36-13/16"  | 28-3/16"     |
| 5/0 (XX)      | 59-3/4"     | 28-11/16"  | 20-1/16"     |
| 6/0 (XX)      | 71-3/4"     | 34-11/16"  | 26-1/16"     |
| 6/4 (XX)      | 76"         | 36-13/16"  | 28-3/16"     |

#### HEIGHTS:

| NOMINAL HEIGHT | FRAME HEIGHT | LEAF HEIGHT | DAYLITE OPG.            |                           |
|----------------|--------------|-------------|-------------------------|---------------------------|
|                |              |             | STANDARD<br>BOTTOM RAIL | HI-PROFILE<br>BOTTOM RAIL |
| 6/8            | 79-3/4"      | 77-1/4"     | 69-1/16"                | 65-5/16"                  |
| 8/0            | 95-3/4"      | 93-1/4"     | 85-1/16"                | 81-5/16"                  |

NOTE:  
DOOR WIDTH AND HEIGHT MUST  
COMPLY WITH EGRESS REQUIREMENTS  
PER FBC WHERE REQUIRED.

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

PRODUCT REVISED  
as complying with the Florida  
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Expiration Date 09-16-2014  
By Ishag I. Choub  
Miami Dade Product Control  
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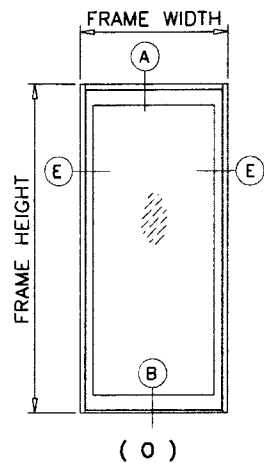
**af c**  
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SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.M.I.)  
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date: 06-10-04  
scale: 1/2"=1'-0"  
dr. by: HAMID  
chk. by:

drawing no.  
**W04-51**  
sheet 2 of 7

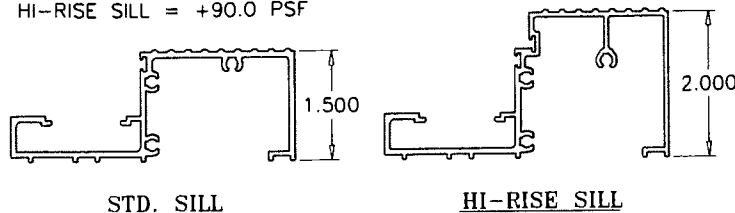


# STATIONARY PANEL (O) OR SIDELITES

| FRAME HEIGHT<br>FT./IN. |                       | DESIGN LOAD CAPACITY - PSF |          |          |          |          |          |
|-------------------------|-----------------------|----------------------------|----------|----------|----------|----------|----------|
|                         |                       | GLASS TYPES                |          |          |          |          |          |
|                         |                       | 'A', 'B', 'D'              |          | 'C', 'E' |          | 'F'      |          |
|                         | FRAME WIDTH<br>INCHES | EXT. (+)                   | INT. (-) | EXT. (+) | INT. (-) | EXT. (+) | INT. (-) |
| 6/8                     | 42                    | 70.0                       | 80.0     | 90.0     | 90.0     | 90.0     | 90.0     |
| 7/0                     | 39                    | 70.0                       | 80.0     | 90.0     | 90.0     | 90.0     | 90.0     |
| 8/0                     | 36                    | 70.0                       | 80.0     | 87.6     | 87.6     | 90.0     | 90.0     |

## WATER INFILTRATION LIMITATIONS:

WHERE WATER INFILTRATION RESISTANCE IS REQUIRED  
LIMIT EXTERIOR LOADS FOR ALL CASES AS FOLLOWS  
STD. SILL = +70.0 PSF  
HI-RISE SILL = +90.0 PSF

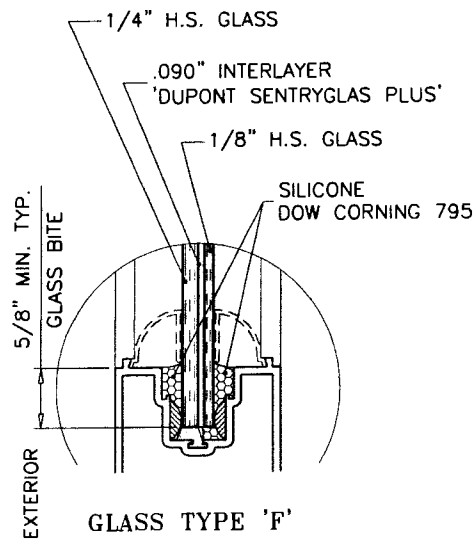
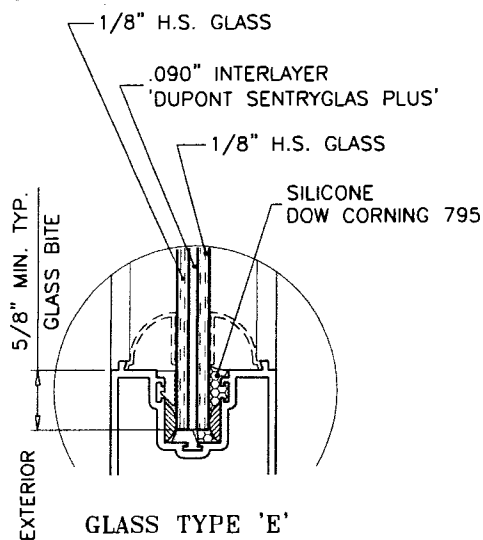
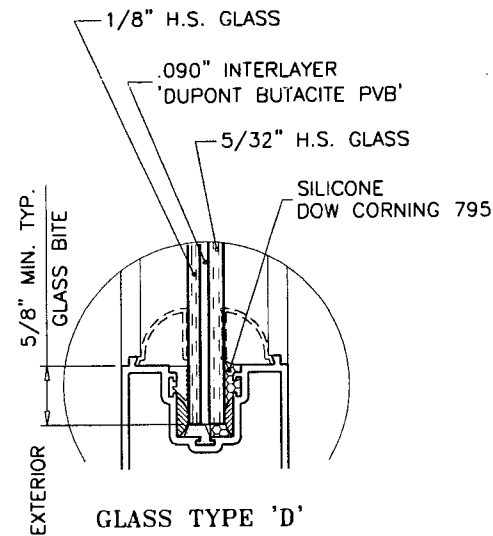
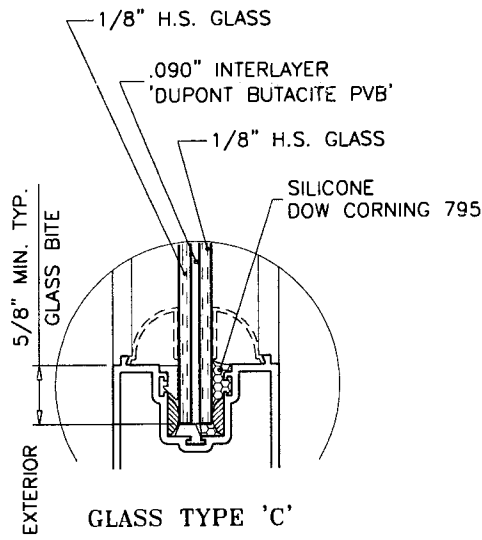
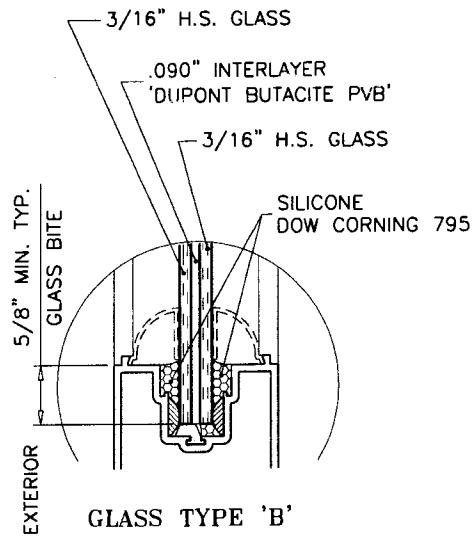
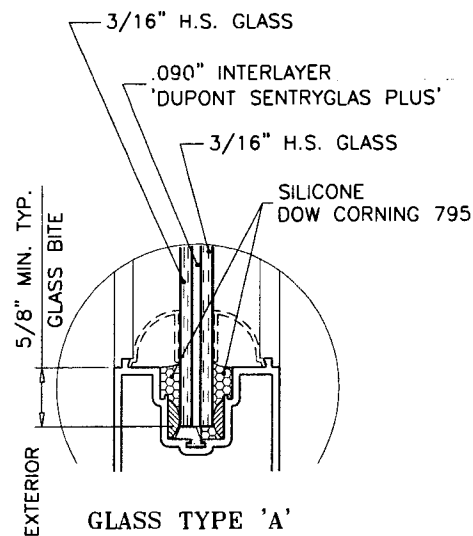


## D.L. OPENINGS:

D.L.O. HEIGHT = LEAF HEIGHT - 8.1875" (STD. BOT. RAIL)

D.L.O. HEIGHT = LEAF HEIGHT - 11.9375" (HI RISE BOT. RAIL)

D.L.O. WIDTH = PANEL WIDTH - 4.000"



## GLAZING OPTIONS

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

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COMP-ANL\W04-51ESW

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| F  | 03.12.10 | GENERAL REV.                |

revisions:

date: 06-10-04

scale: 1/2"=1'-0"

dr. by: HAMID

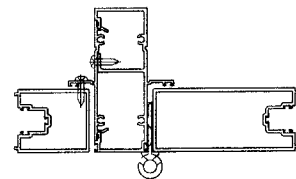
chk. by:

drawing no.  
**W04-51**

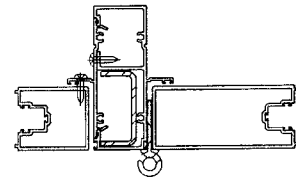
sheet 2.1 of 7

# MULLION

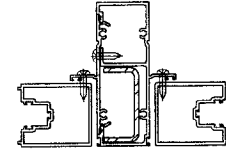
| DESIGN LOAD CAPACITY - PSF |                         |                             |                 |                              |
|----------------------------|-------------------------|-----------------------------|-----------------|------------------------------|
| SIDELITE WIDTH<br>INCHES   | FRAME HEIGHT<br>FT./IN. | DOOR TO<br>SIDELITE MULLION |                 | SIDELITE TO<br>SIDELITE MULL |
|                            |                         | UNREINFORCED                | REINFORCED      | REINFORCED                   |
|                            |                         | EXT.(+)/INT.(-)             | EXT.(+)/INT.(-) | EXT.(+)/INT.(-)              |
| 24                         | 6/8                     | 80.0                        | 80.0            | 90.0                         |
| 27                         |                         | 80.0                        | 80.0            | 90.0                         |
| 30                         |                         | 80.0                        | 80.0            | 90.0                         |
| 33                         |                         | 80.0                        | 80.0            | 90.0                         |
| 36                         |                         | 80.0                        | 80.0            | 90.0                         |
| 39                         |                         | 80.0                        | 80.0            | 90.0                         |
| 42                         |                         | 80.0                        | 80.0            | 90.0                         |
| 24                         | 7/0                     | 80.0                        | 80.0            | 90.0                         |
| 27                         |                         | 80.0                        | 80.0            | 90.0                         |
| 30                         |                         | 80.0                        | 80.0            | 90.0                         |
| 33                         |                         | 80.0                        | 80.0            | 90.0                         |
| 36                         |                         | 80.0                        | 80.0            | 90.0                         |
| 39                         |                         | 80.0                        | 80.0            | 90.0                         |
| 18                         | 8/0                     | 78.9                        | 80.0            | 90.0                         |
| 21                         |                         | 74.8                        | 80.0            | 90.0                         |
| 24                         |                         | 71.1                        | 80.0            | 90.0                         |
| 27                         |                         | 67.9                        | 80.0            | 90.0                         |
| 30                         |                         | 65.0                        | 80.0            | 90.0                         |
| 33                         |                         | 62.4                        | 78.9            | 90.0                         |
| 36                         |                         | 60.1                        | 76.0            | 90.0                         |



UNREINFORCED



REINFORCED



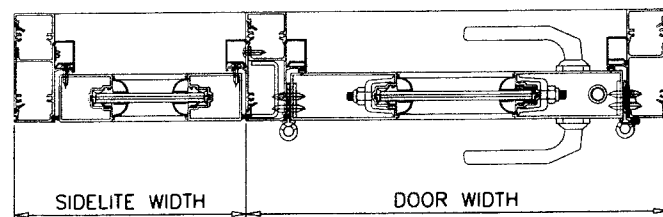
REINFORCED

DOOR TO SIDELITE MULLION

SIDELITE TO SIDELITE MULLION

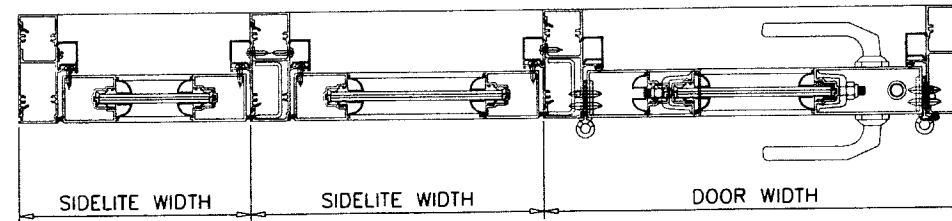
## NOTE:

FOR DOORS CAPACITY SEE SHEET 2  
FOR SIDELITE CAPACITIES SEE SHEET 2.1.  
FOR SIDELITE MULLION CAPACITY SEE CHART ABOVE  
LOWER VALUES FROM DOORS, SIDELITE OR MULLION  
CHART WILL APPLY TO ENTIRE SYSTEM.



SIDELITE WIDTH

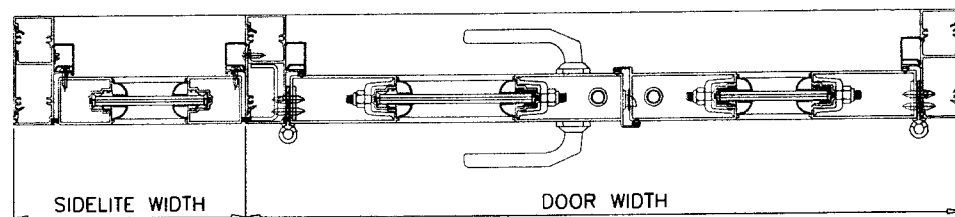
DOOR WIDTH



SIDELITE WIDTH

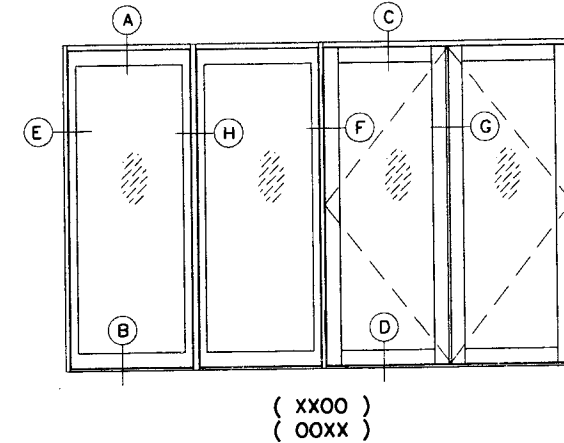
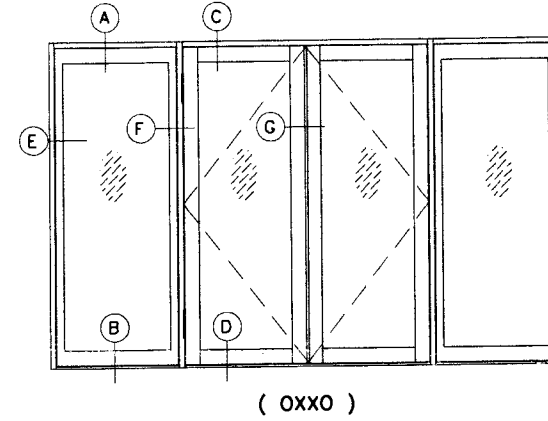
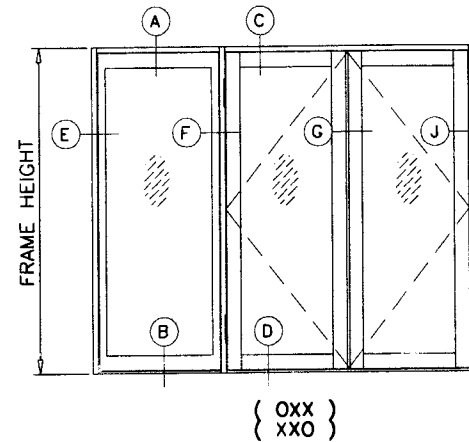
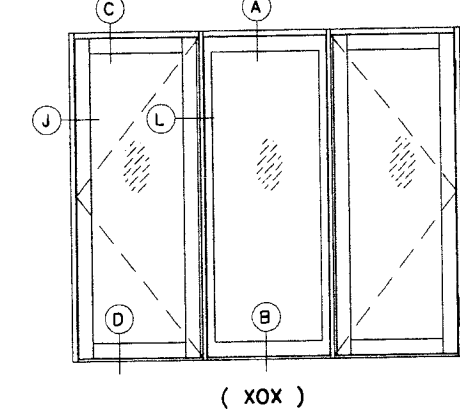
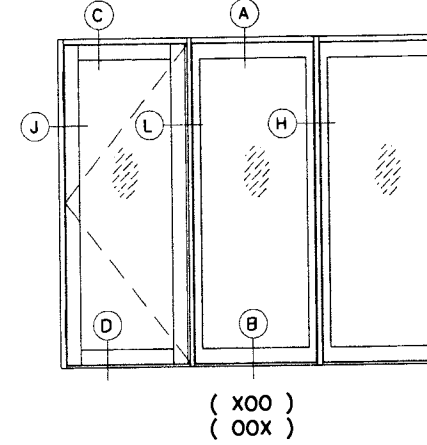
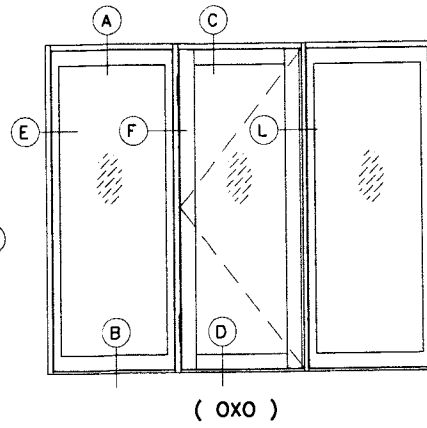
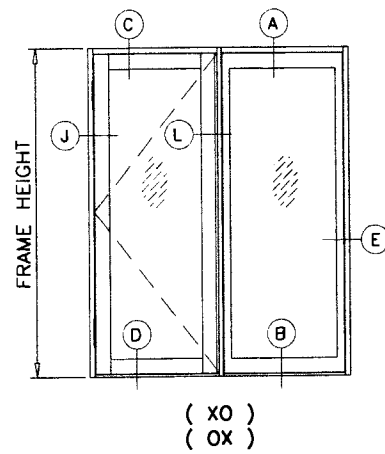
SIDELITE WIDTH

DOOR WIDTH



SIDELITE WIDTH

DOOR WIDTH



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

MAR 25 2010

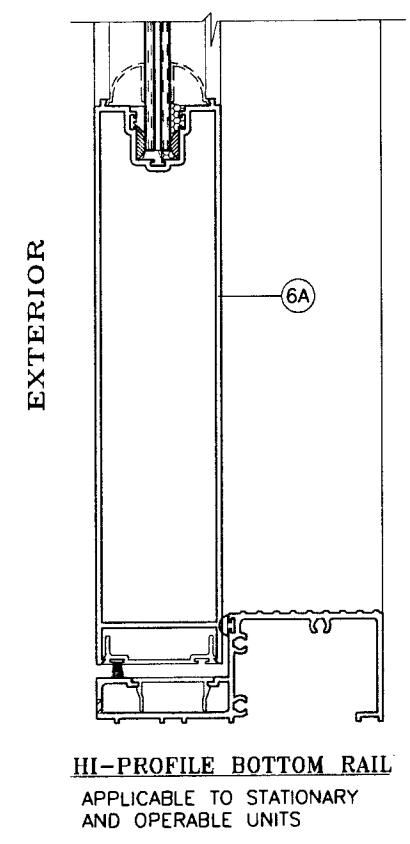
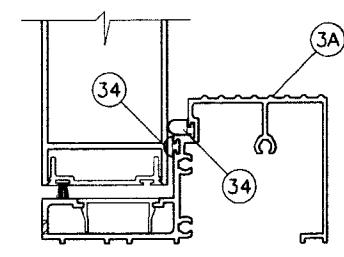
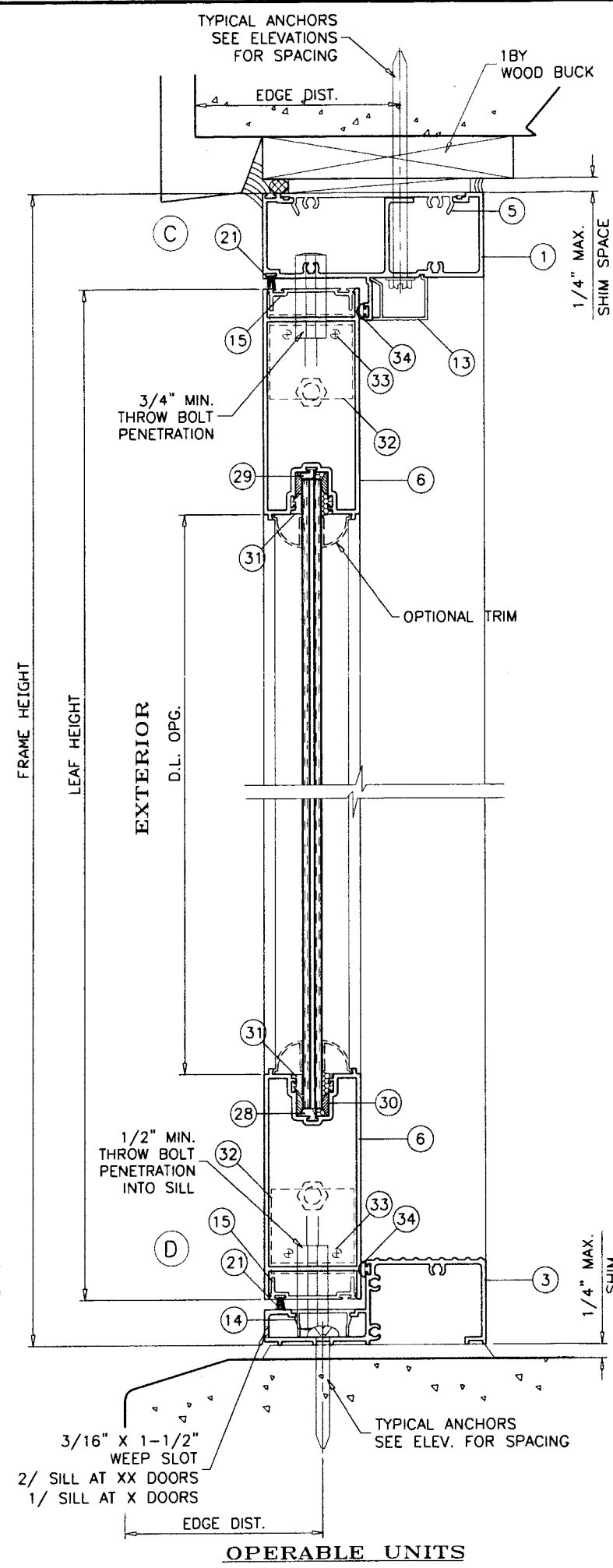
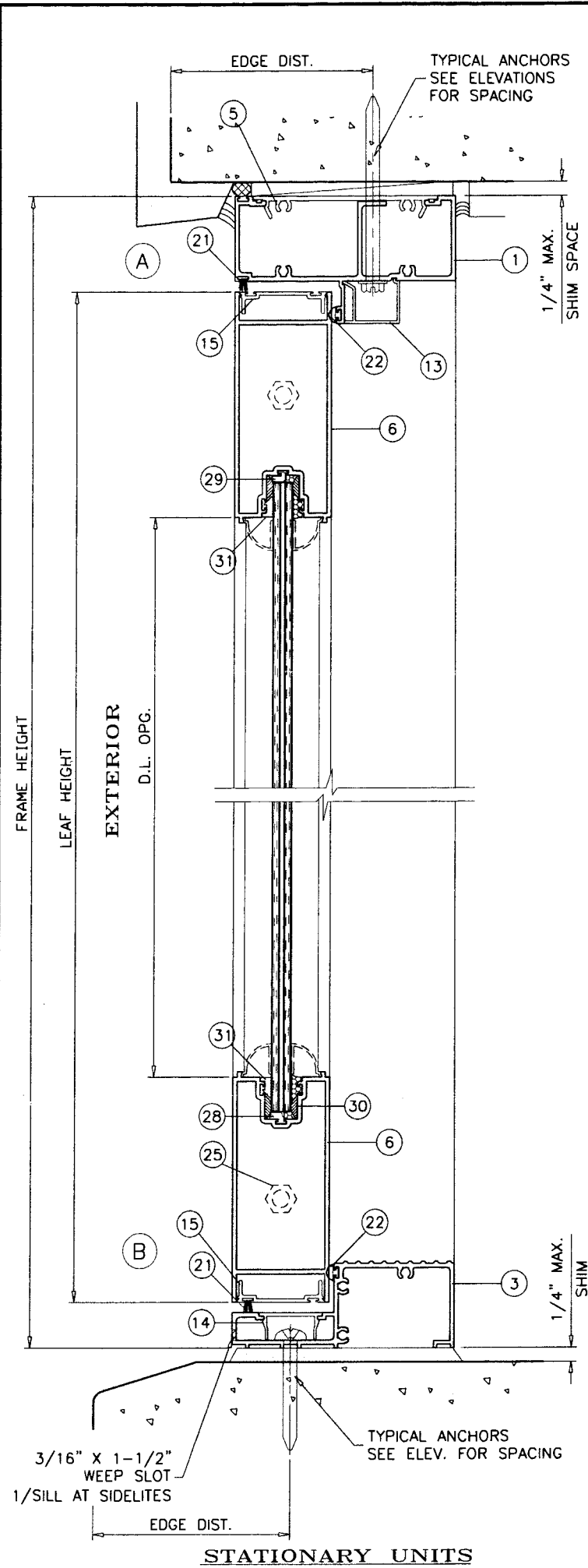
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 09-1217.03  
Expiration Date 09-16-2014  
By Idragi. Chaudhry  
Miami Dade Product Control  
Division

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W04-51ESW

SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.M.I.)  
**E.S. WINDOWS, LLC**  
5220 N.W. 72 AVE. BAY #4  
MIAMI, FL. 33166  
TEL. (305) 624-7775 FAX. (305) 624-7777

| no | date     | by                     | description                  |
|----|----------|------------------------|------------------------------|
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date: 06-10-04  
scale: 1/2"=1'-0"  
dr. by: HAMID  
chk. by:  
drawing no.  
**W04-51**  
sheet 2.2 of 7



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

*JH*  
MAR 25 2010

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By *Ishag I. Chanda*  
Miami Dade Product Control  
Division

**afC**

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date: 06-10-04

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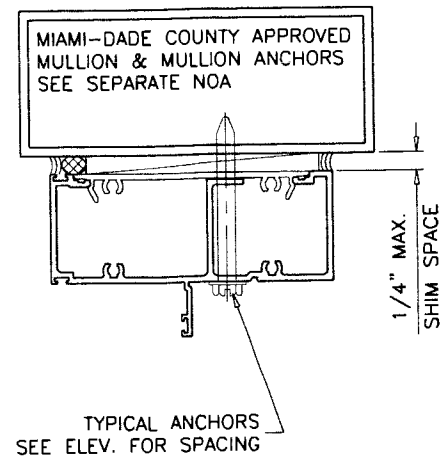
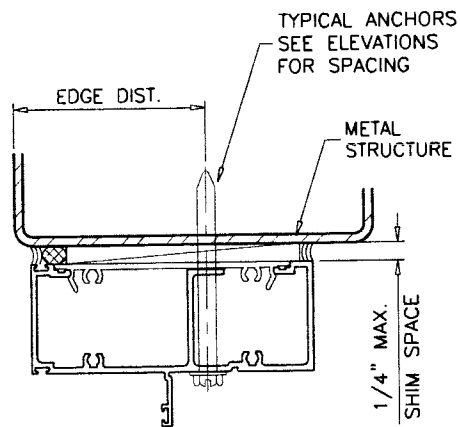
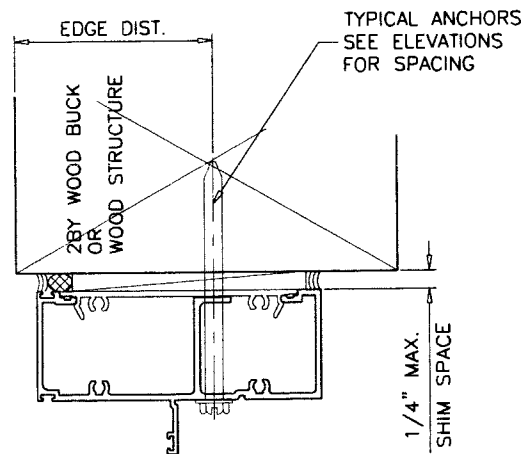
dr. by: HAMID

chk. by:

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drawing no.  
**W04-51**

sheet 3 of 7



WOOD BUCKS AND METAL STRUCTURE NOT BY E.S. WINDOWS  
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'** ( $F_u=177$  KSI,  $F_y=155$  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 MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")

INTO METAL STRUCTURES

STEEL : 1/8" THK. MIN. ( $F_y = 36$  KSI MIN.)

ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

**TYPICAL EDGE DISTANCE**

INTO CONCRETE AND MASONRY = 2-1/2" MIN.

INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE AT HEAD, SILL OR JAMBS  $f'_c = 3000$  PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS  $f'_m = 2000$  PSI MIN.

**SEALANTS:**

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH  
WHITE/ALUMINUM COLORED SILICONE.

Engr: JAVAD AHMAD  
CIVIL  
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By: *Shag I. Chaudhary*  
Miami Dade Product Control  
Division

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COMP - ANL W04 - 51ESW

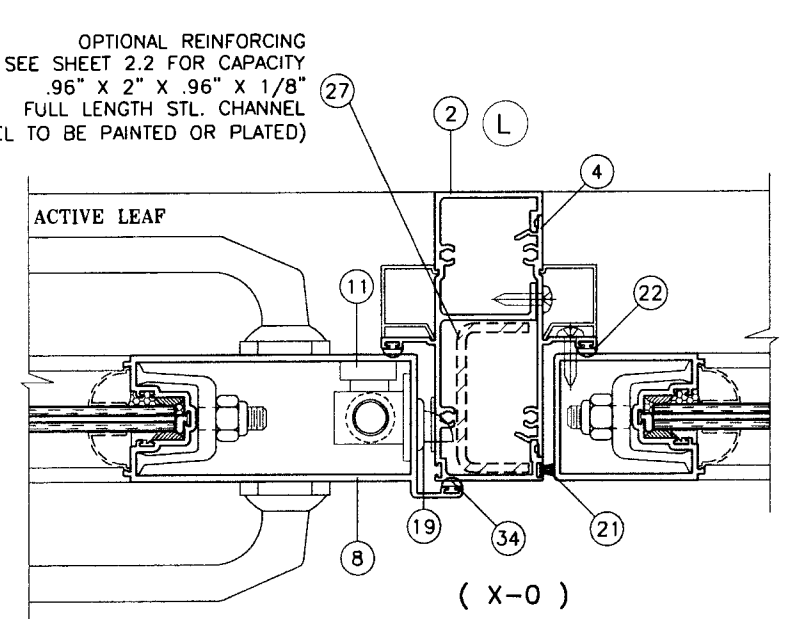
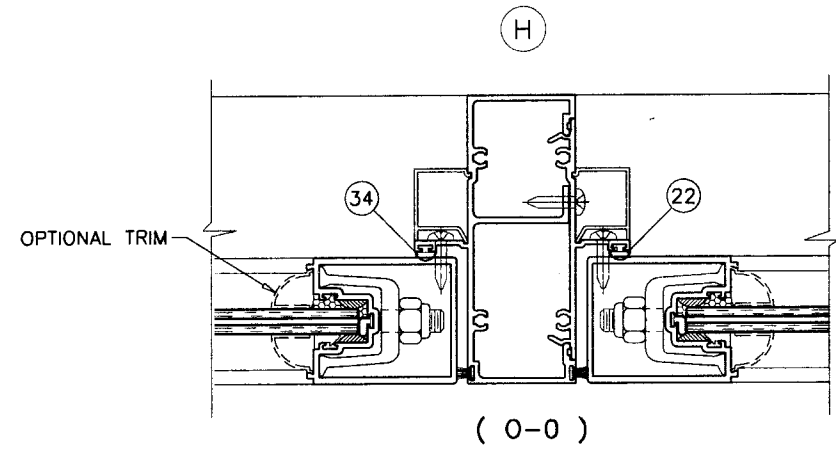
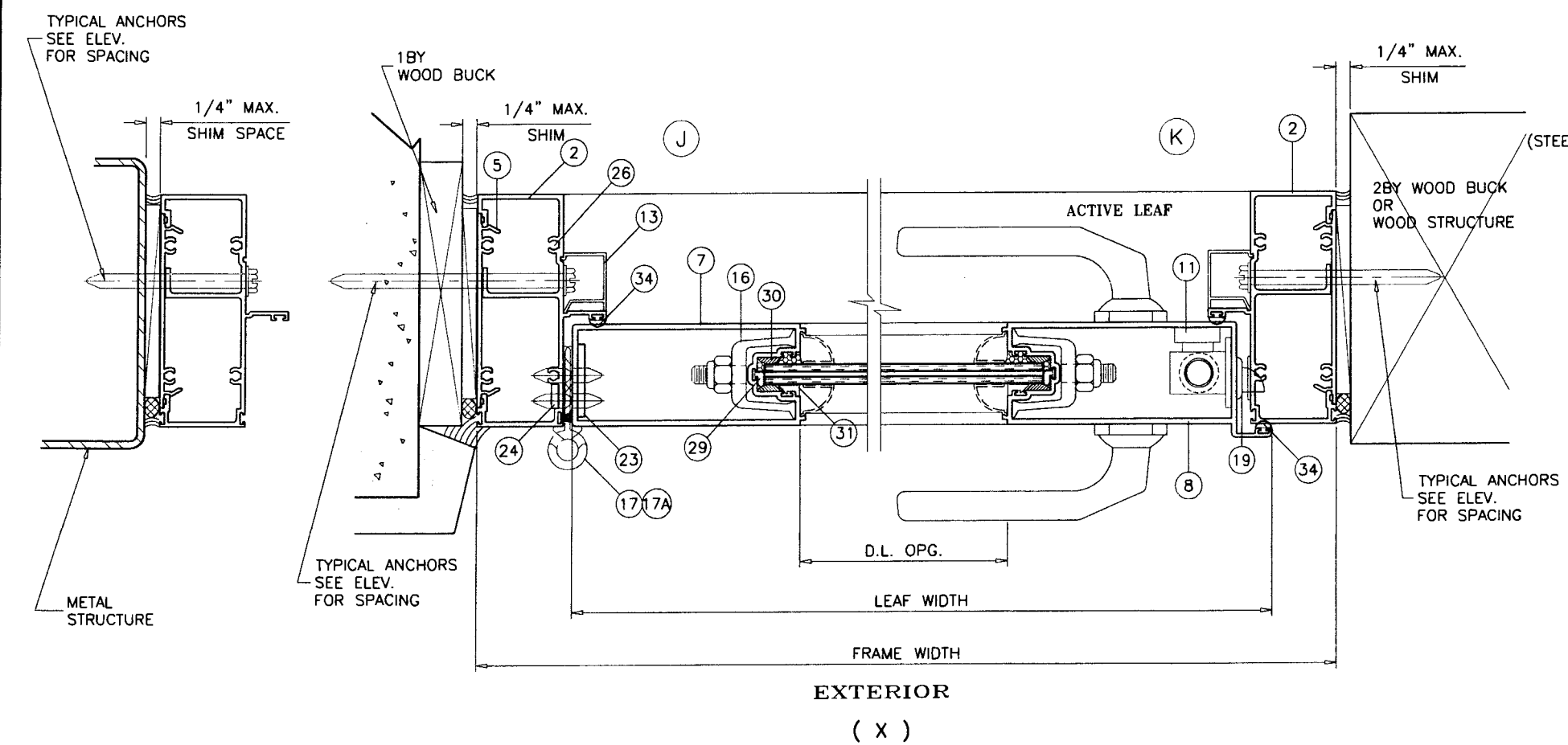
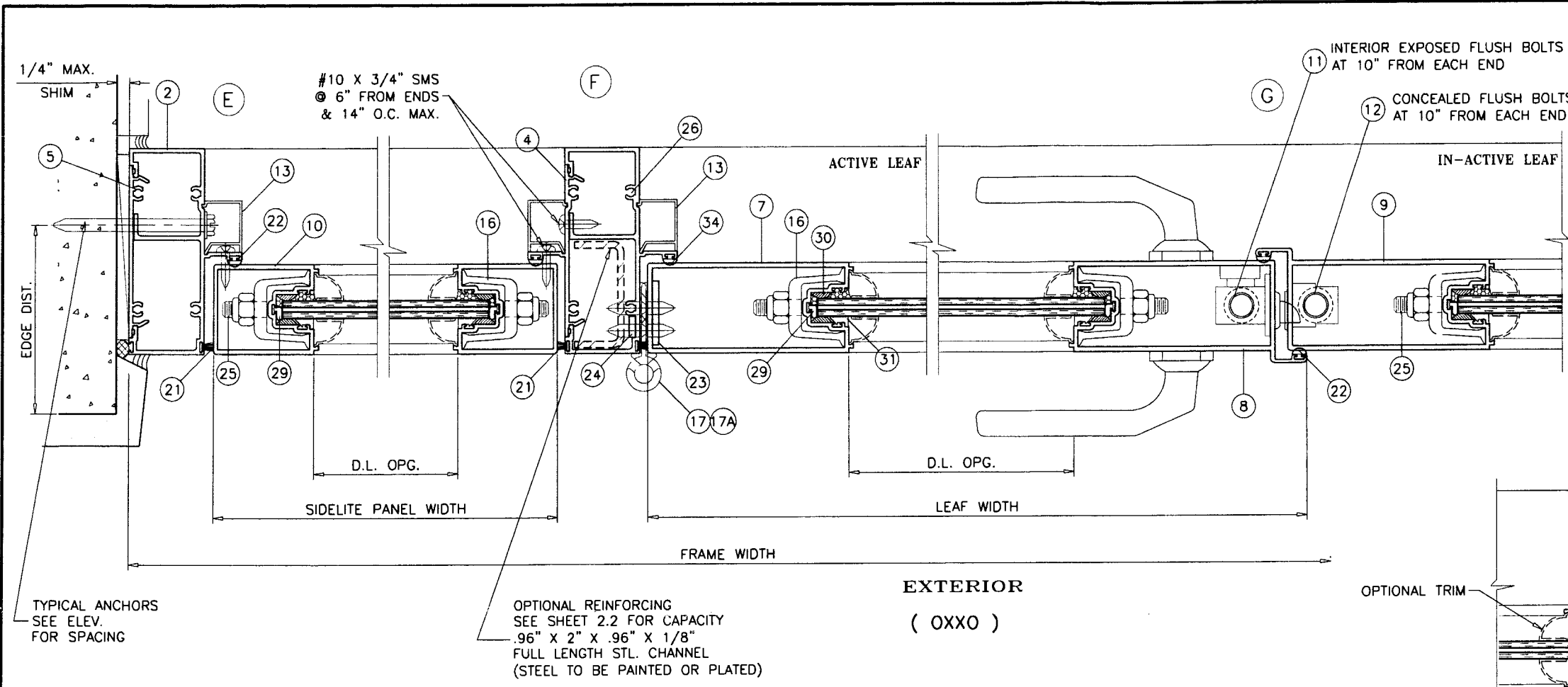
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date: 06-10-04  
scale: 3/8" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W04-51**  
sheet 4 of 7



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

*[Signature]*  
MAR 25 2010

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By *[Signature]*  
Miami Dade Product Control  
Division

(FLUSH BOLTS AT ACTIVE AND INACTIVE LEAFS  
MUST BE ENGAGED DURING PERIODS  
OF HURRICANE WARNING)

**af c**  
**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
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| Revisions: |          |                              |             |
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| scale:   | 3/8" = 1" |
| dr. by:  | HAMID     |
| chk. by: |           |

|             |        |
|-------------|--------|
| drawing no. | W04-51 |
| sheet       | 5 of 7 |

| ITEM # | PART #      | QUANTITY | DESCRIPTION                    | MATERIAL  | MANF./SUPPLIER/REMARKS  |
|--------|-------------|----------|--------------------------------|-----------|-------------------------|
| 1      | ES3001-1    | 1        | FRAME HEAD                     | 6063-T6   | -                       |
| 2      | ES3001-2    | 2        | DOOR FRAME JAMB                | 6063-T6   | -                       |
| 3      | ES3002-1    | 1        | FRAME SILL (STANDARD)          | 6063-T5   | -                       |
| 3A     | ES3025      | 1        | FRAME SILL (HI-RISE)           | 6063-T5   | -                       |
| 4      | ES3003-1    | AS REQD. | SIDELITE ADAPTER               | 6063-T6   | -                       |
| 5      | ES3004      | AS REQD. | SHEAR PLATE @ ANCHOR LOCATIONS | 6063-T6   | 3" LONG                 |
| 6      | ES3005-1    | 2/ LEAF  | TOP AND BOTTOM RAIL            | 6063-T5   | -                       |
| 6A     | ES3024      | 2/ LEAF  | HI-PROFILE BOTTOM RAIL         | 6063-T5   | -                       |
| 7      | ES3006-1    | 1/ LEAF  | DOOR LEAF JAMB - HINGE SIDE    | 6063-T5   | -                       |
| 8      | ES3007-1    | 1/ LEAF  | DOOR LEAF - LOCK SIDE          | 6063-T6   | -                       |
| 9      | ES3007-2    | 1/ LEAF  | DOOR LEAF - KEEPER SIDE        | 6063-T6   | -                       |
| 10     | ES3008-1    | AS REQD. | SIDELITE STILE                 | 6063-T5   | -                       |
| 11     | FB-1202-914 | 2/ LEAF  | EXPOSED FLUSH BOLT             | STEEL     | SULLIVAN & ASSOCIATES   |
| 12     | FB-1202-914 | 2/ LEAF  | CONCEALED FLUSH BOLT           | STEEL     | SULLIVAN & ASSOCIATES   |
| 13     | ES3011      | AS REQD. | JAMB TRIM                      | 6063-T5   | OPTIONAL                |
| 14     | ES3012      | 1        | SILL COVER                     | 6063-T6   | -                       |
| 15     | ES3013      | 2/ LEAF  | WEATHERSTRIP ADAPTER           | 6063-T5   | -                       |
| 16     | ES3014-1    | 4/ PANEL | PANEL CLAMP                    | 6063-T6   | -                       |
| 17     | ES3003-3    | 3/ LEAF  | HINGE ASSEMBLY                 | 6063-T6   | SEE SHEET 2             |
| 17A    | -           | 2/ LEAF  | PIVOT HINGES                   | -         | SEE SHEET 2             |
| 19     | -           | -        | DOOR LOCK (SAVANNAH 201SL)     | -         | YALE                    |
| 20     | -           | -        | DEAD BOLT LOCK (PREMIER)       | -         | YALE                    |
| 21     | W22321NG    | AS REQD. | FIN-SEAL PILE W'STRIPPING      | -         | ULTRAFAB                |
| 22     | ES3020      | AS REQD. | BULB WEATHERSTRIPPING          | VINYL     | AT SIDELITE PANELS      |
| 23     | -           | 1/ HINGE | HINGE REINFORCING BAR          | ALUMINUM  | 1-1/4"X1/8"X4-1/4" LONG |
| 24     | -           | AS REQD. | HINGE REINFORCING BAR          | ALUMINUM  | 1/8" THK. X 7-7/8" LONG |
| 25     | -           | 2/ LEAF  | 3/8" DIA. THREADED ROD W/ NUTS | STEEL     | -                       |
| 26     | -           | AS REQD. | FRAME ASSY. SCREWS             | -         | #10 PAN HEAD SMS        |
| 27     | -           | AS REQD. | MULLION REINFORCING CHANNEL    | A36 STEEL | -                       |
| 28     | ES4014      | AS REQD. | BOTTOM RAIL GLASS STOP         | NEOPRENE  | -                       |
| 29     | ES4019      | AS REQD. | PANEL SILICONE STOP            | NEOPRENE  | -                       |
| 30     | -           | AS REQD. | 3/8" DIA. X 1/8" HT. BUMPER    | SILICONE  | FRANK LOWE RUBBER CO.   |
| 31     | ES4013      | AS REQD. | WEDGE GASKET                   | -         | -                       |
| 32     | ES3022      | 2/ STILE | FLUSH BOLT BRACKET             | 6063-T5   | -                       |
| 33     | -           | 2/ BKT.  | BRACKET INSTALLATION SCREWS    | -         | #10 X 1" FH SMS         |
| 34     | Q/LON       | AS REQD. | DOOR PANEL W'STRIPPING         | -         | SCHLEGEL                |

Engr: JAVAD AHMAD  
CIVIL  
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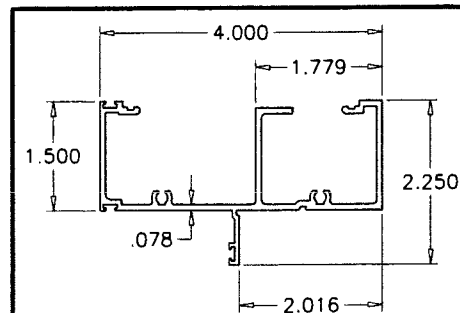
*[Signature]*

MAR 25 2010

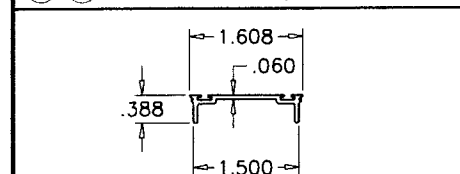
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By Ishag J. Lhank  
Miami Dade Product Control  
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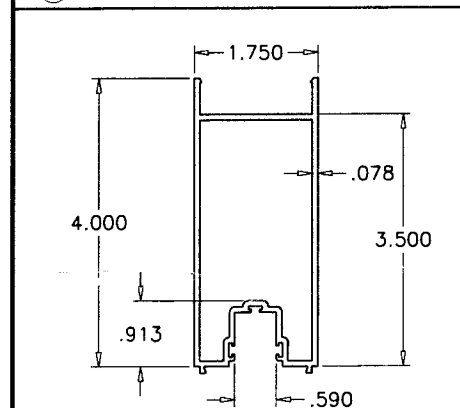
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| <b>af c</b>                                                                                                                                                                  |             |
| <b>AL-FAROOQ CORPORATION</b><br>ENGINEERS & PRODUCT DEVELOPMENT<br>1235 S.W. 87 AVE<br>MIAMI, FLORIDA 33174<br>TEL. (305) 264-8100 FAX. (305) 262-6978<br>COMP-ANL\W04-51ESW |             |
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| revisions:                                                                                                                                                                   | description |
| no                                                                                                                                                                           | date        |
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| date:                                                                                                                                                                        | 06-10-04    |
| scale:                                                                                                                                                                       | 3/8" = 1"   |
| dr. by:                                                                                                                                                                      | HAMID       |
| chk. by:                                                                                                                                                                     |             |
| drawing no.                                                                                                                                                                  | W04-51      |
| sheet 6 of                                                                                                                                                                   | 7           |



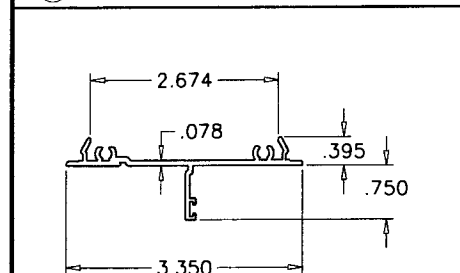
① ② FRAME HEAD/JAMB



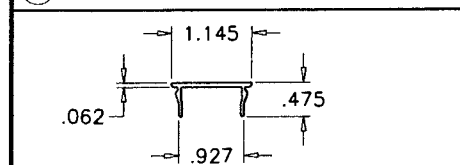
⑮ WEATHERSTRIP ADAPTER



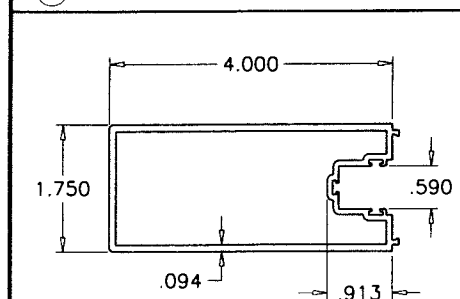
⑥ TOP/BOTTOM RAIL



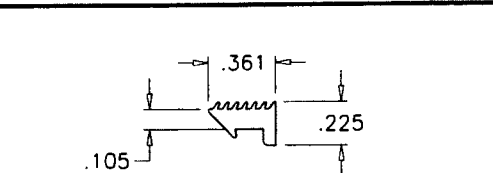
④ SIDELITE ADAPTER



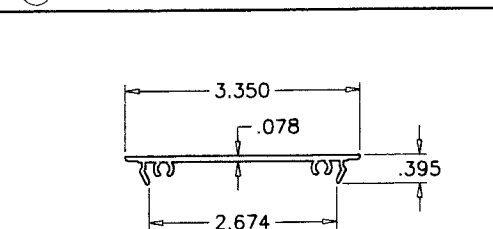
⑭ SILL COVER



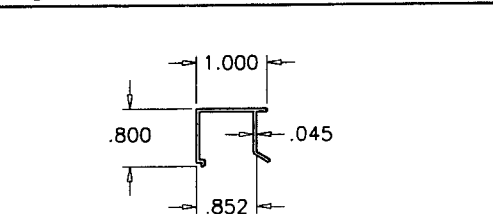
⑦ HINGE STILE



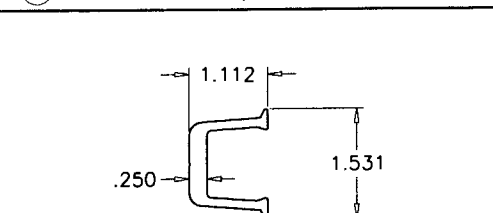
⑮ WEDGE GASKET (SCALE 1:1)



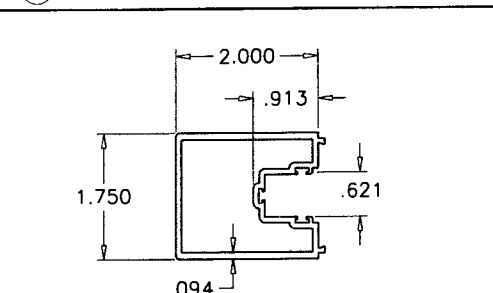
⑤ SHEAR PLATE



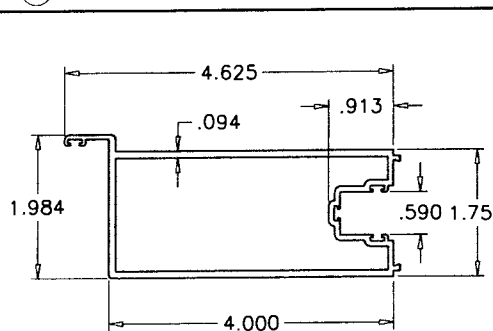
⑬ JAMB TRIM (OPTIONAL)



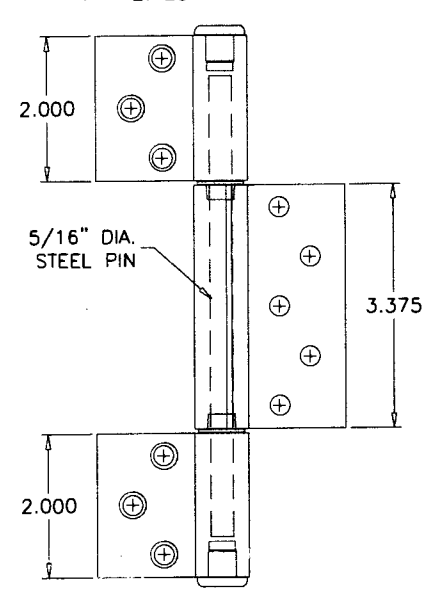
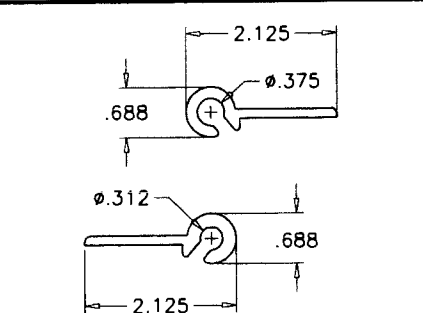
⑮ PANEL CLAMP



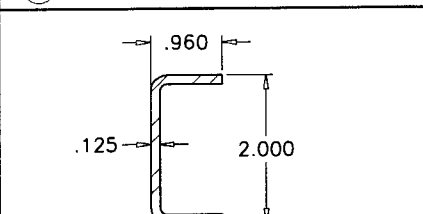
⑩ SIDE LITE STILE



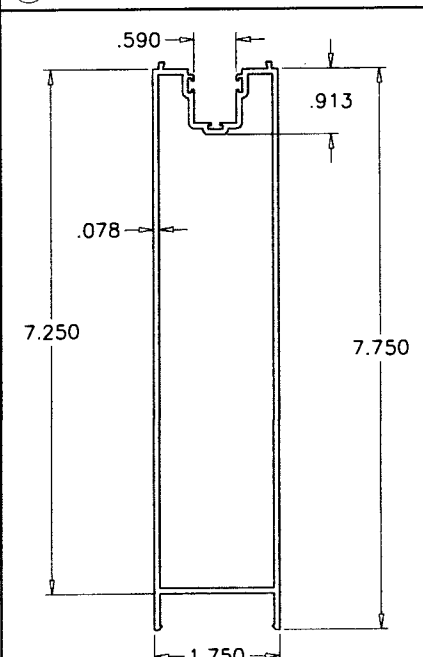
⑧ ⑨ LOCK STILE/KEEPER STILE



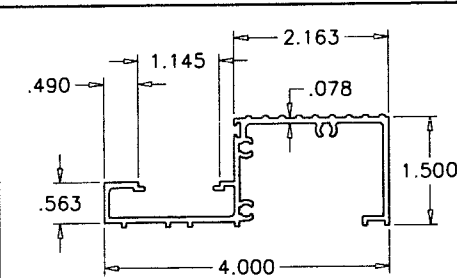
⑰ 3 PIECE HINGE



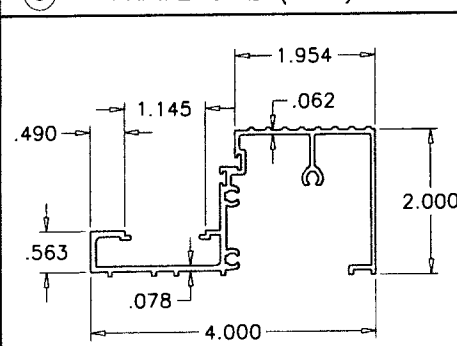
⑰ MULLION REINF. CHANNEL



⑥A HI-PROFILE BOTTOM RAIL



③ FRAME SILL (STD.)



③A FRAME SILL (HI-RISE)

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

*[Signature]*  
MAR 25 2010

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 09-1217-03  
Expiration Date 09-16-2014

By *[Signature]*  
Miami Dade Product Control  
Division

**AL-FAROOQ CORPORATION**  
ENGINEERS & PRODUCT DEVELOPMENT  
1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP--ANL\W04-51ESW

**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                   |
| C          | 08.17.07 REV. PER BCCO COMMENTS       |
| D          | 08.14.09 GLASS 'D' & BOTT. RAIL ADDED |
| E          | 11.23.09 NO CHANGE THIS SHEET         |
| F          | 03.12.10 GENERAL REV.                 |

date: 06-10-04

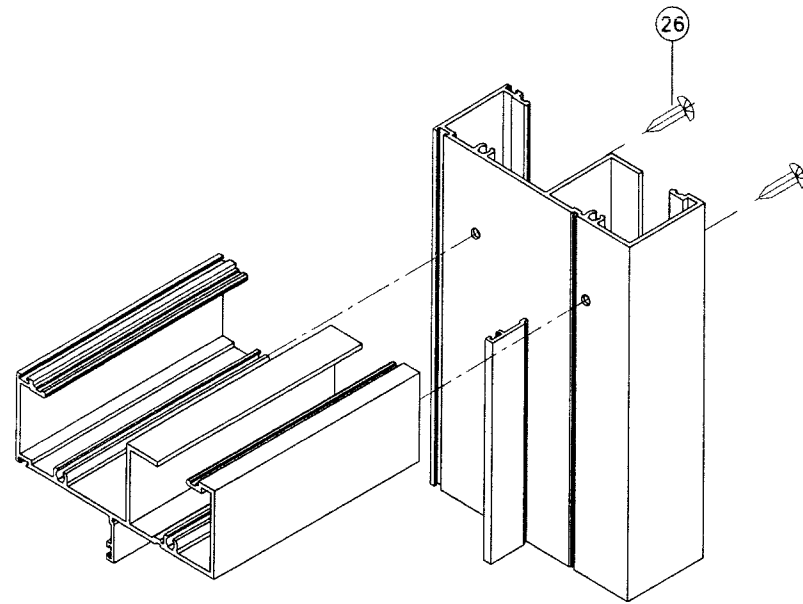
scale: 3/8" = 1"

dr. by: HAMID

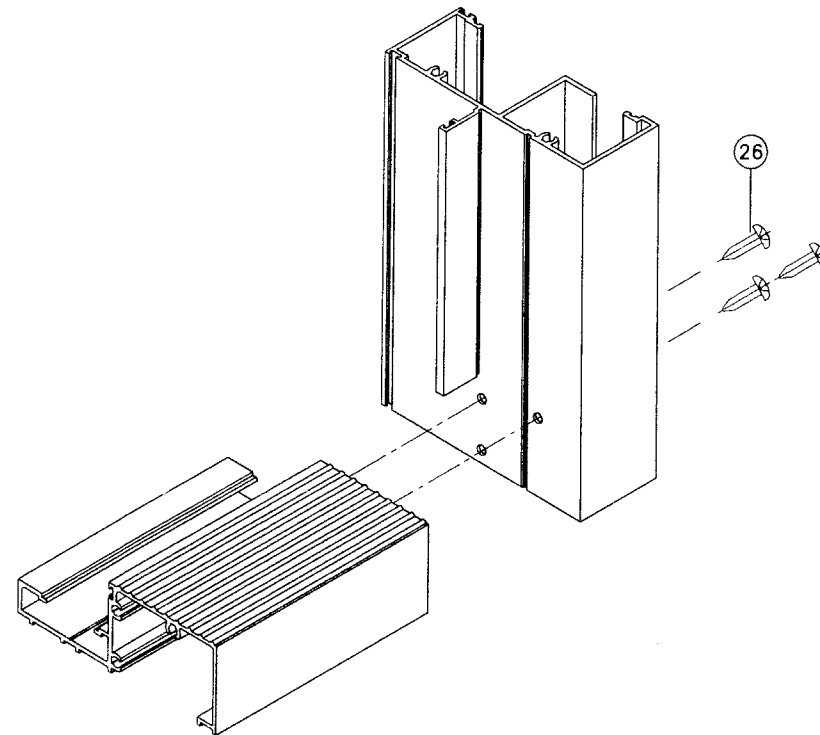
chk. by:

drawing no.  
**W04-51**

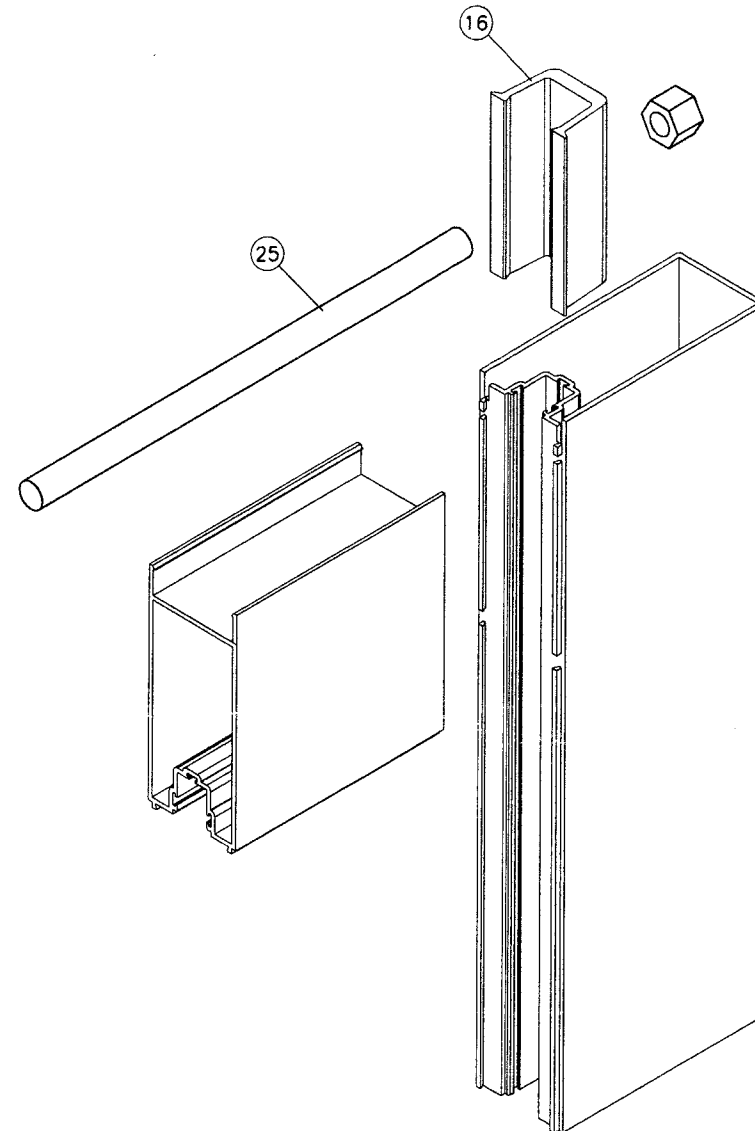
sheet 6.1 of 7



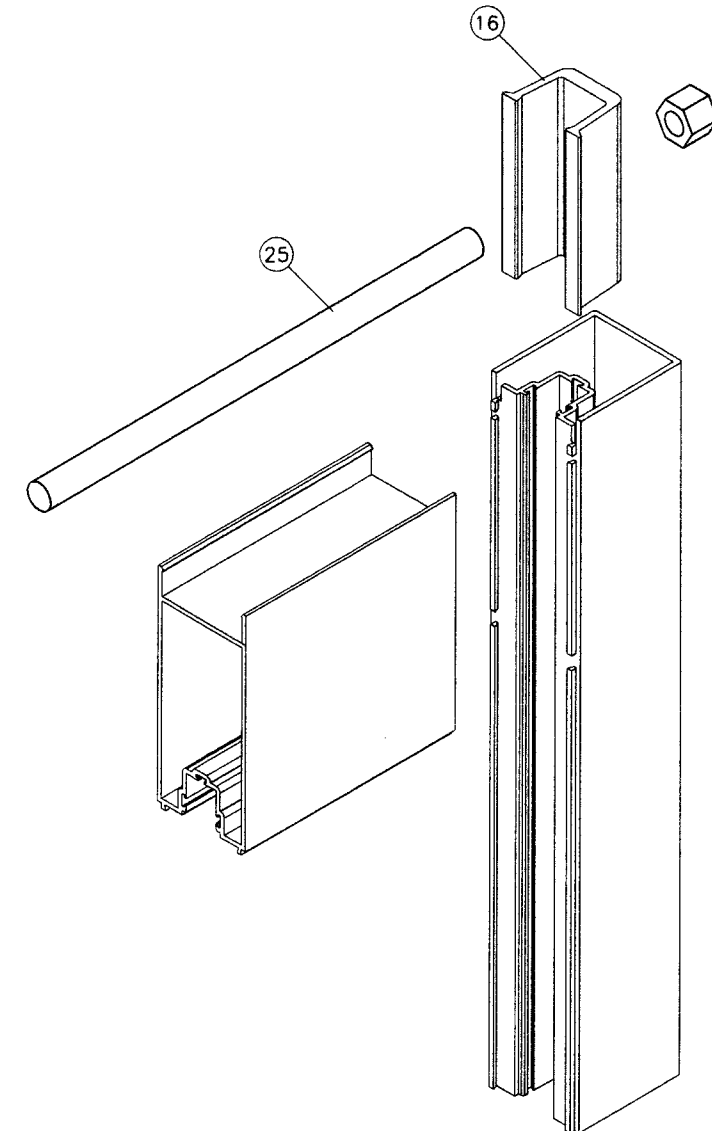
FRAME TOP CORNER



FRAME BOTTOM CORNER



DOOR LEAF CORNER



STATIONARY PANEL OR SIDELITE CORNER

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

*[Signature]*  
MAR 25 2010

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 09-1217-03  
Expiration Date 09-16-2014

By Ishtaq I. Chaudhry  
Miami Dade Product Control  
Division

**af c**  
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1235 S.W. 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
COMP-ANL\W04-51ESW

SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.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            |
|------------|----|----------|----|------------------------|
|            | B  | 06.21.06 |    | NO CHANGE THIS SHEET   |
|            | C  | 08.17.07 |    | NO CHANGE THIS SHEET   |
|            | D  | 08.14.09 |    | NO CHANGE THIS SHEET   |
|            | E  | 11.23.09 |    | GENERAL REV.           |
|            | F  | 03.12.10 |    | REV. PER BCCO COMMENTS |

date: 06-10-04  
scale: 3/8" = 1"  
dr. by: HAMID  
chk. by:

drawing no.  
**W04-51**

sheet 7 of 7