



**DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

**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 and accepted by Miami-Dade County PERA -Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

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

APPROVAL DOCUMENT: Drawing No. **W04-51 Rev G**, 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 MAY 17, 2012, 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 Section.

MISSILE IMPACT RATING: Large and Small Missile Impact

Limitations: 1. Lower Design Pressures of Doors, 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 series and following statement: "Miami-Dade County Product Control Approved", 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 # 09-1217.03 and consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

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



NOA No 12-0308.40
Expiration Date: September 16, 2014
Approval Date: May 24, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections (transferred from file # **09-1217.03**)
2. Drawing No. **W04-51 Rev**, 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 MAY 17, 2012, signed and sealed by Javad Ahmad, P.E.

Note: This revision consists of FBC 2010 notes only.

B. TESTS (transferred from file # **09-1217.03)**

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) 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, 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

1. Anchor verification calculations complying with FBC-2010, prepared by Al Farooq Corporation, dated 03/01/12 signed and sealed by Javad Ahmad, P.E.
2. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al Farooq Corporation, dated 12/08/09 signed and sealed by Arshad Viqar, P.E. (transferred from file # **09-1217.03**)
3. Glazing complies w/ ASTME-1300-02 & -04

D. QUALITY ASSURANCE

1. Miami Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

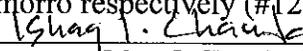
1. Notice of Acceptance No. **11-0624.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass @ Interlayer**", expiring on 01/14/17.
2. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours for "**Butacite PVB Interlayer**", expiring on 12-11-2016

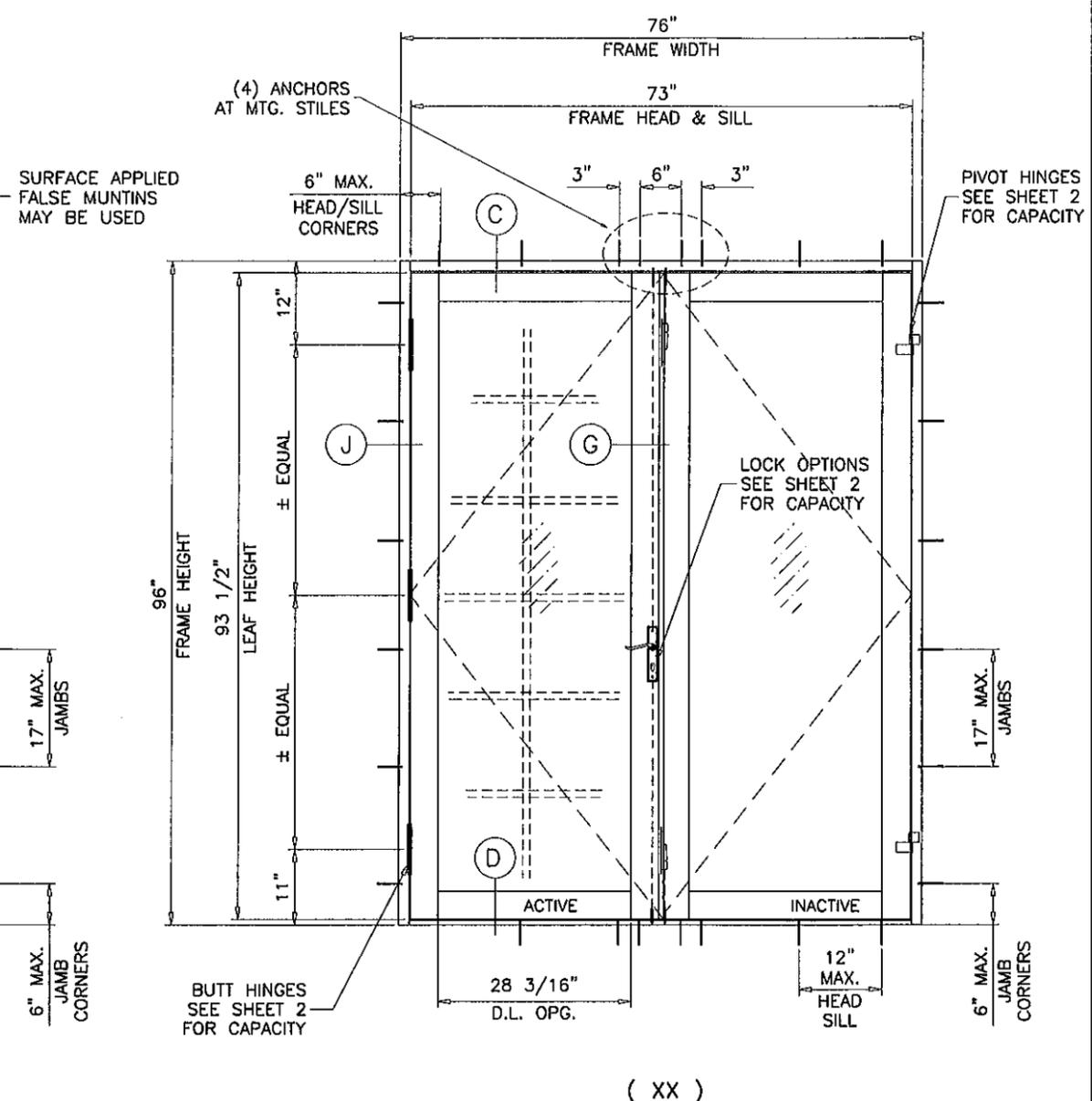
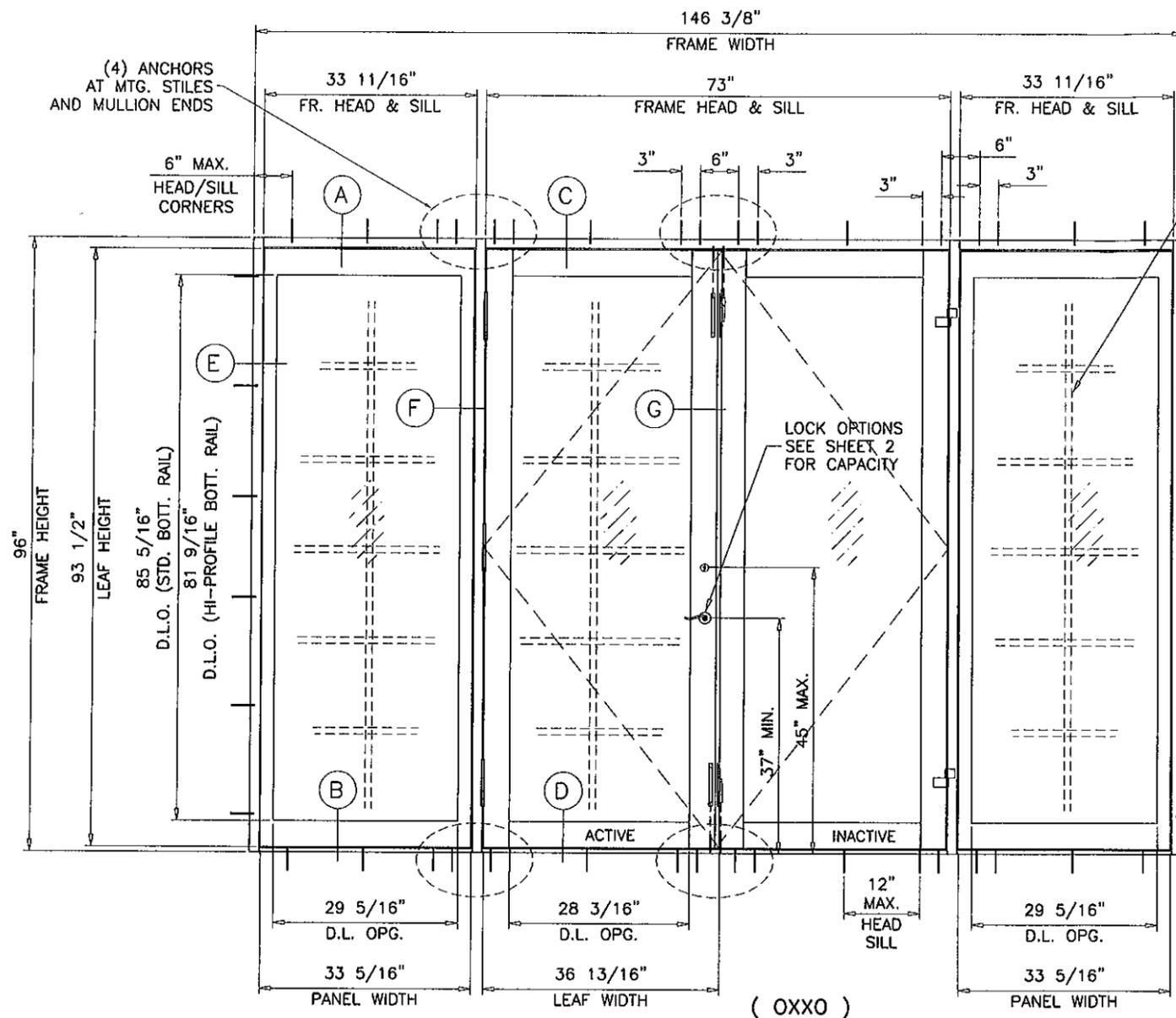
F. STATEMENTS

1. Statement letter of conformance and letter of no financial interest, prepared by Al Farooq Corporation, dated 02/24/12, signed and sealed by Javad Ahmad, P.E.
2. Lab compliance as part of the above referenced test report.

G. OTHER

1. This NOA revises NOA # **09-1217.03**, 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.
3. ES Windows Distribution agreement -Energia Solar, S.A. and ES Windows, LLC, dated 10/20/10, signed by Ms Carla G. Torrente and Andres Chamorro respectively (#12-0130.39).


Ishaq I. Chanda, P.E.
Product Control Examiner
NOA No 12-0308.40
Expiration Date: September 16, 2014
Approval Date: May 24, 2012



TYPICAL ELEVATIONS

TESTED UNITS

PRODUCT REVIEWED
 in compliance with the Florida
 Building Code
 Acceptance No. 12-0308-40
 Expiration Date SEP 16, 2014
 By Ishag I. Chank
 Miami Dade Product Control

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

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 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 THE 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.

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

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 MAY 17 2012

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\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
D	08.14.09		UPDATED FOR 2007 FBC
E	11.23.09		GENERAL REV.
F	03.12.10		REV. PER BCCO COMMENTS
G	02.24.12		UPDATED TO 2010 FBC

date: 06-10-04
 scale: 1/2"=1'-0"
 dr. by: HAMID
 chk. by:

drawing no.
W04-51

sheet 1 of 7



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no.	date	description
D	08.14.09	UPDATED FOR 2007 FBC
E	11.23.09	GENERAL REV.
F	03.12.10	REV. PER BCC COMMENTS
G	02.24.12	NO CHANGE THIS SHEET

date: 06-10-04
scale: 1/2" = 1'-0"
dr. by: HAMID
chk. by:

drawing no.
W04-51
sheet 2 of 7

'X' DOORS

DESIGN LOAD CAPACITY - PSF (GLASS AND HARDWARE OPTIONS)															
FRAME HEIGHT INCHES	FRAME WIDTH INCHES	GLASS TYPES						HINGES				LOCKS			
		'A', 'B' & 'D'		'C' & 'E'		'F'		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 INCHES	FRAME WIDTH INCHES	GLASS TYPES						HINGES				LOCKS			
		'A', 'B' & 'D'		'C' & 'E'		'F'		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:

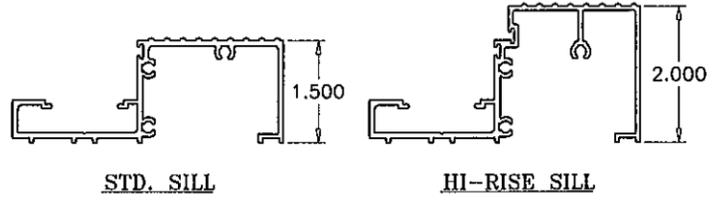
- ACTIVE LEAF:**
- OPTION #1:**
SURFACE MOUNT DEAD BOLT LOCK BY 'YALE' AT 45" FROM BOTTOM, KEY OPERATED ON EXTERIOR AND THUMB TURN ON INTERIOR
FASTENED TO ACTIVE LEAF LOCK STILE WITH (2) 1/4-28 X 2-1/2" OH MS
LEVER TYPE METALLIC HANDLE AT 37" FROM BOTTOM, FASTENED TO ACTIVE LEAF LOCK STILE WITH (2) #8-32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

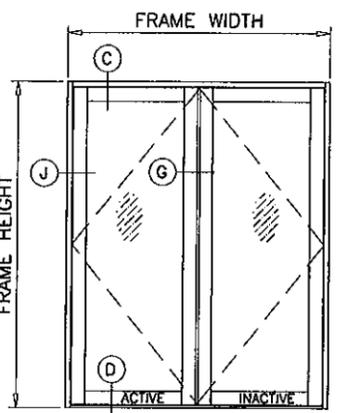
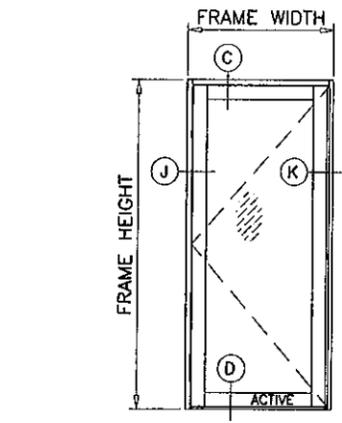
CONCEALED FLUSH BOLTS BY 'SULLIVAN & ASSOC.' MANUALLY OPERATED LEVERS MOUNTED ON INSIDE FACE OF LEAF STILE LOCATED AT 12" FROM TOP AND BOTTOM
FASTENED TO LOCK STILE WITH #8 X 3/4" FH SMS (2) PER BOLT

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)



PRODUCT REVISED
to comply with the Florida Building Code
Acceptance No 12-0308-40
Expiration Date 9/16/14
[Signature]
Miami Dade Product Control



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"

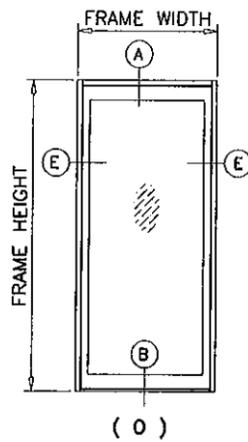
NOTE:
DOOR WIDTH AND HEIGHT MUST COMPLY WITH EGRESS REQUIREMENTS PER FBC WHERE REQUIRED.

HEIGHTS:

NOMINAL HEIGHT	FRAME HEIGHT	LEAF HEIGHT	DAYLITE OPG.	
			STANDARD BOTTOM RAIL	HI-PROFILE 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:
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
[Signature]
MAY 17 2012

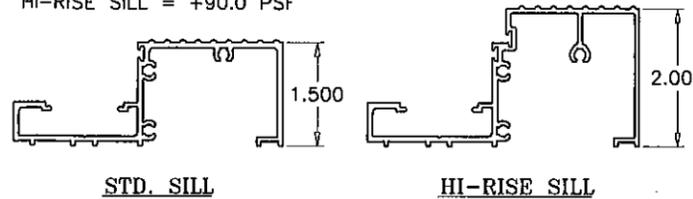


STATIONARY PANEL (O) OR SIDELITES

FRAME HEIGHT FT./IN.	FRAME WIDTH INCHES	DESIGN LOAD CAPACITY - PSF					
		GLASS TYPES					
		'A', 'B', 'D'		'C', 'E'		'F'	
		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

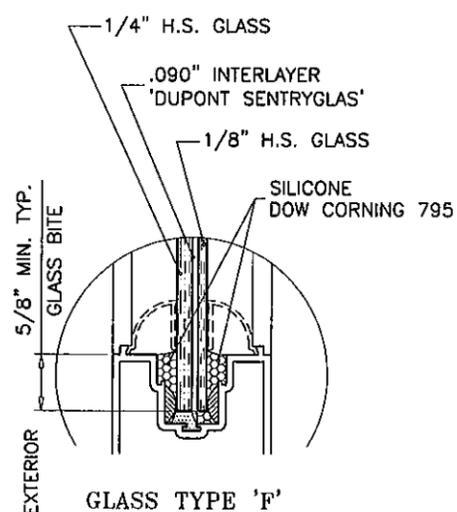
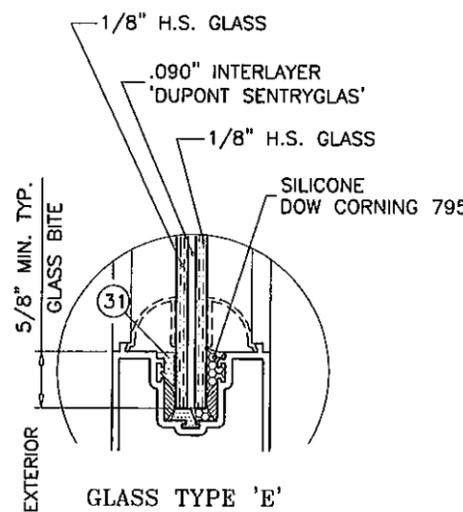
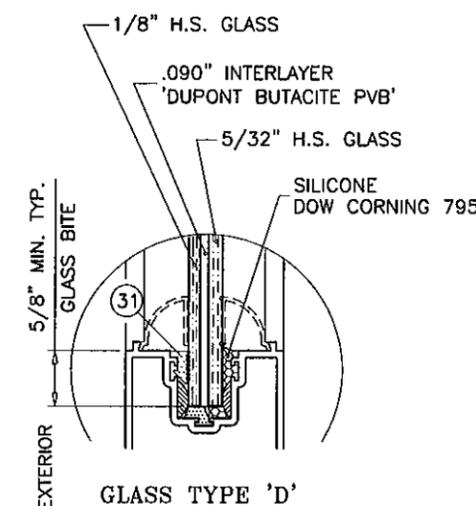
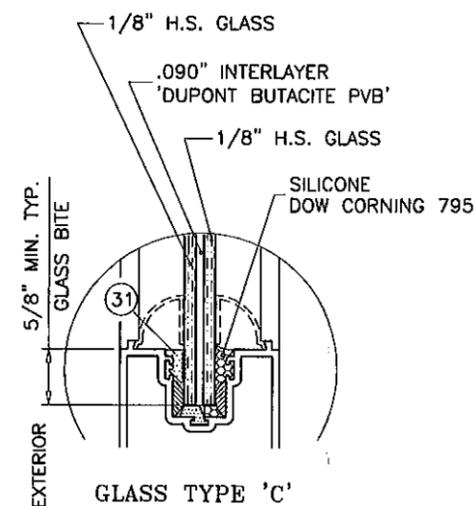
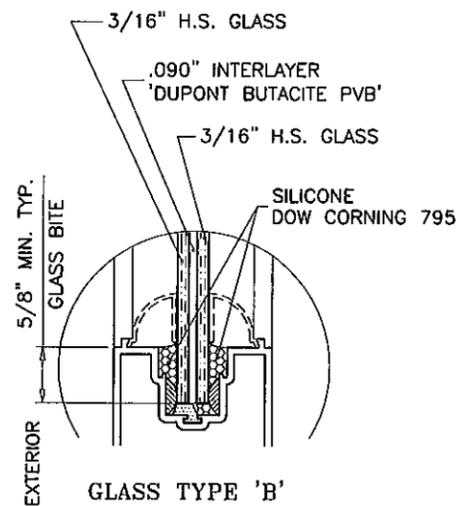
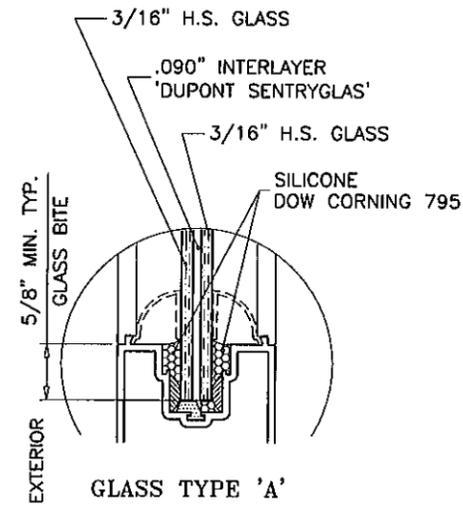
WATER INFILTRATION LIMITATIONS:

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"



PRODUCT REVISED
to comply with the Florida
Building Code
Acceptance No. 12-0308-40
Expiration Date 9/16/14
By: J. J. Chan
Product Control

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
MAY 14 2012

GLAZING OPTIONS

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
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SERIES-3000 ALUM OUTSWING FRENCH DOOR (L.M.I.)
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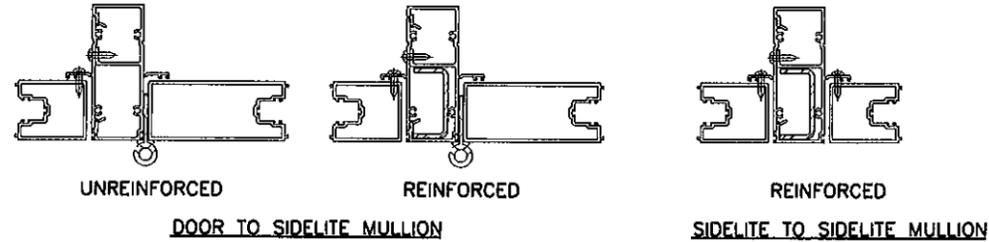
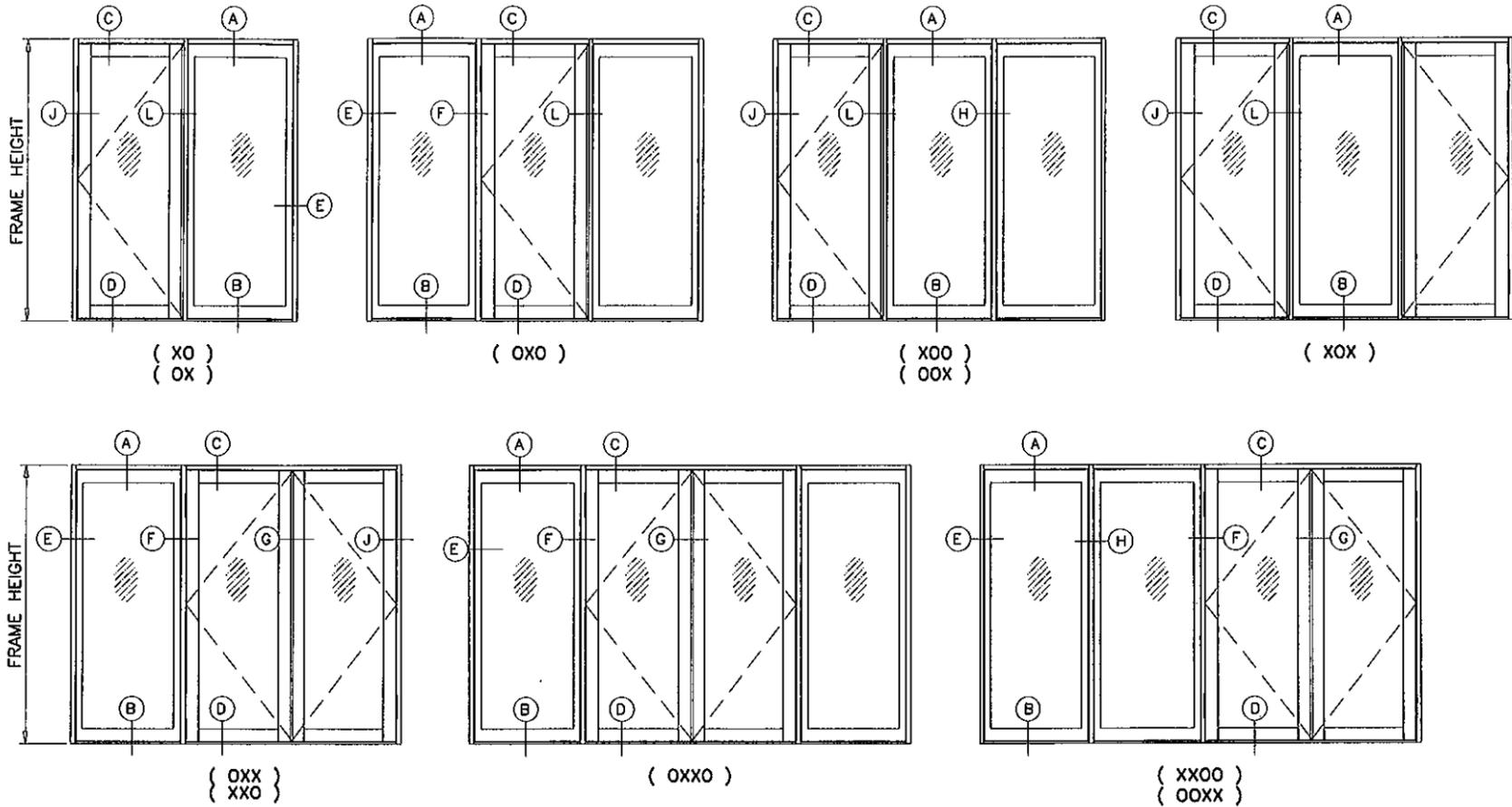
revisions:	no	date	description
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	E	11.23.09	GENERAL REV.
	F	03.12.10	REV. PER BCCO COMMENTS
	G	02.24.12	UPDATED TO 2010 FBC

date:	06-10-04
scale:	1/2" = 1'-0"
dr. by:	HAMID
chk. by:	

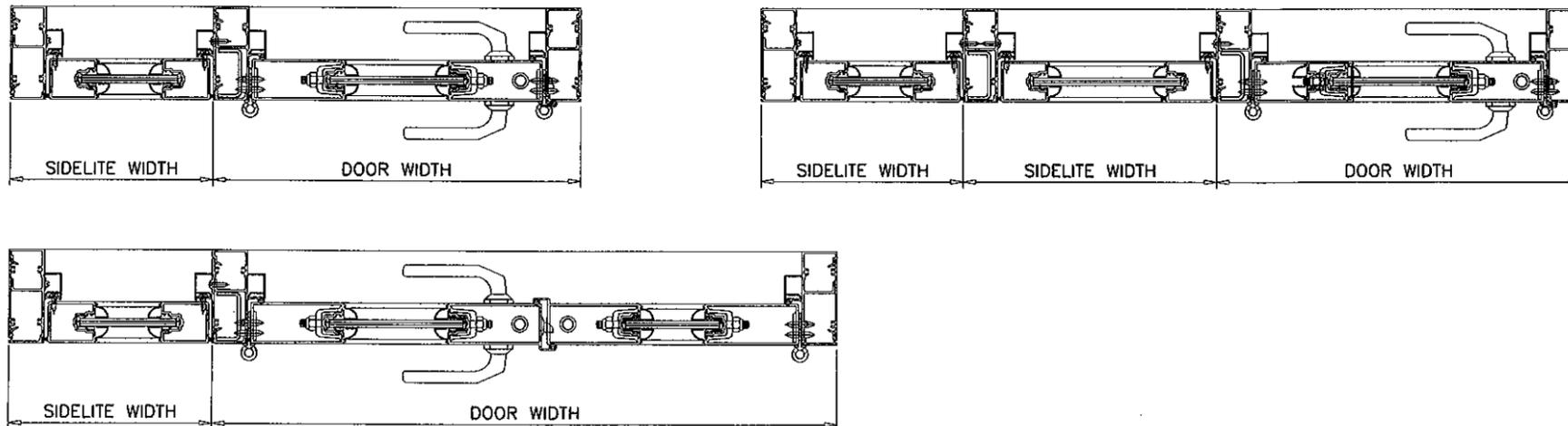
drawing no.	W04-51
sheet	2.1 of 7

MULLION

DESIGN LOAD CAPACITY - PSF				
SIDELITE WIDTH INCHES	FRAME HEIGHT FT./IN.	DOOR TO SIDELITE MULLION		SIDELITE TO 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



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.



Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 MAY 17 2012

PRODUCT REVISED
 in complying with the Florida
 Building Code
 Acceptance No. 12-0308-90
 Expiration Date 9/16/14
 By: [Signature]
 Miami Date/Product Control

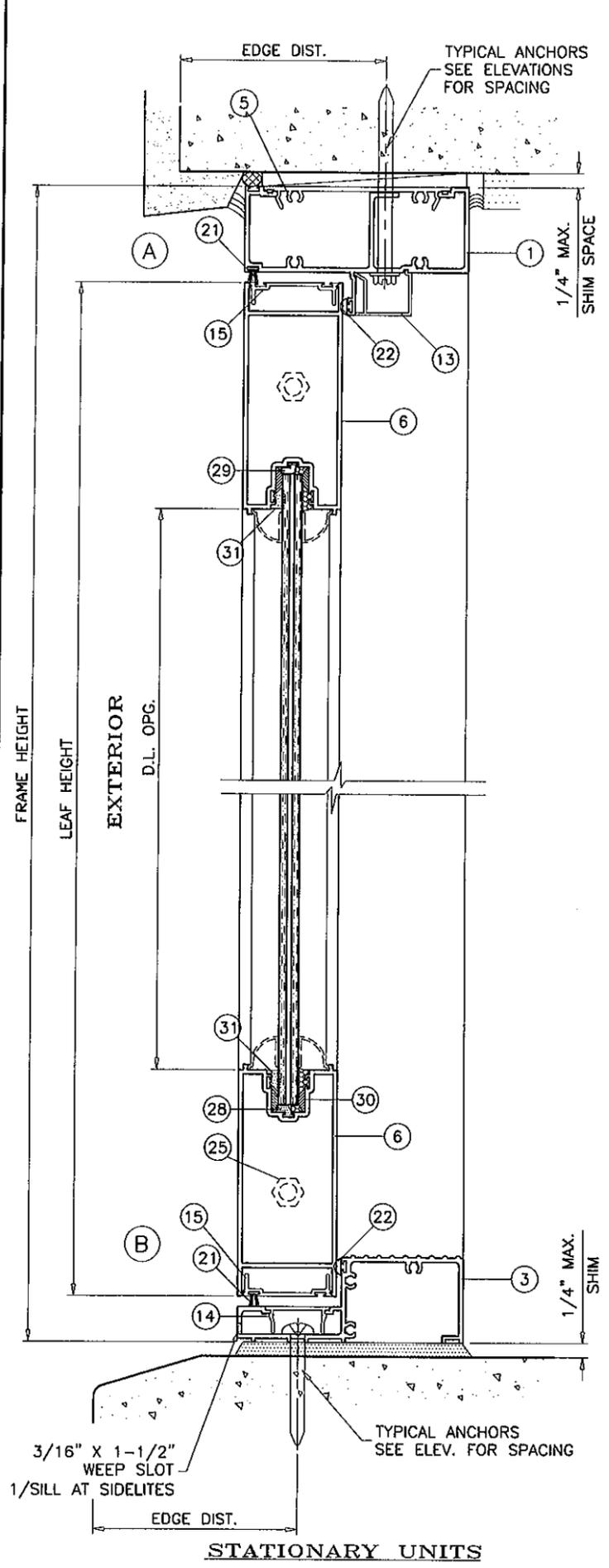
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AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL W04-51ESW

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

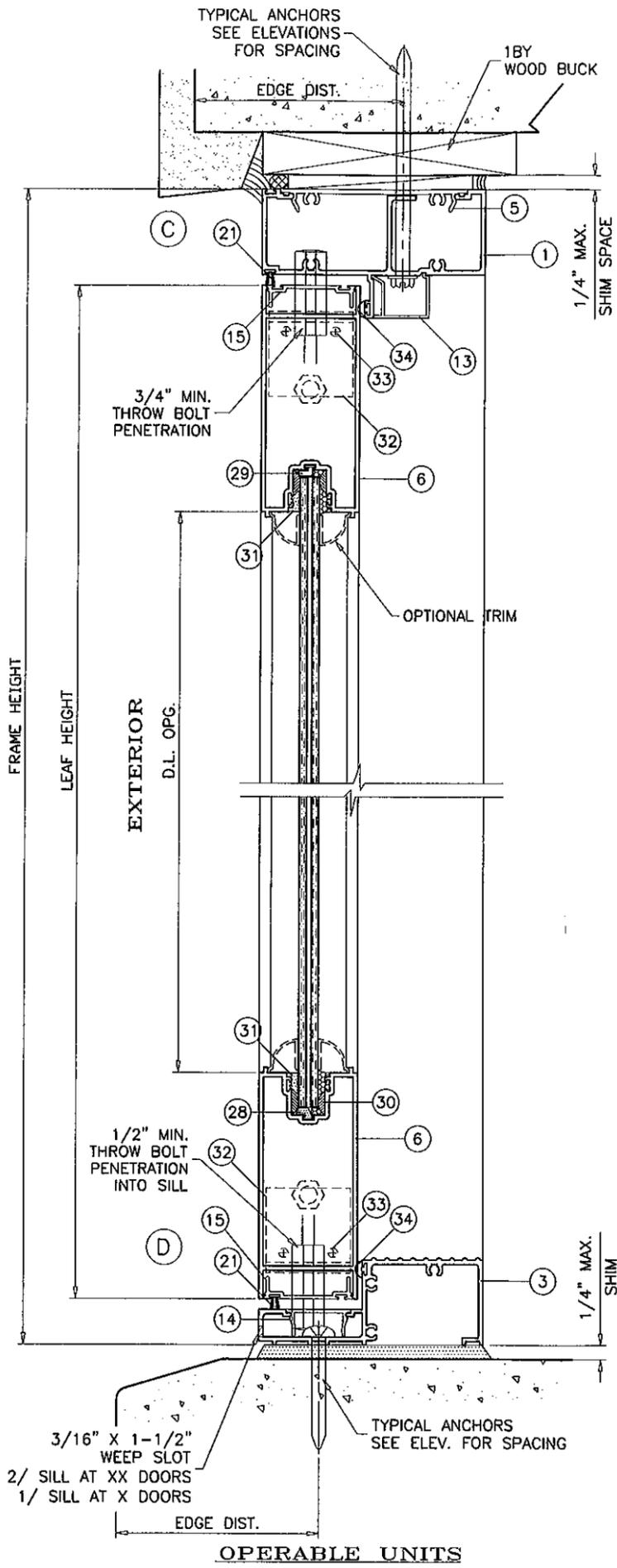
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	F	03.12.10	REV. PER BCCO COMMENTS	
	G	02.24.12	NO CHANGE THIS SHEET	

date:	06-10-04
scale:	1/2" = 1'-0"
dr. by:	HAMID
chk. by:	

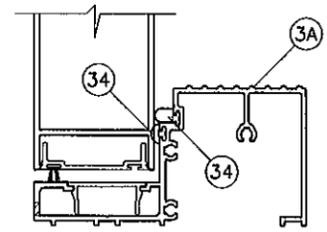
drawing no.	W04-51
sheet	2.2 of 7



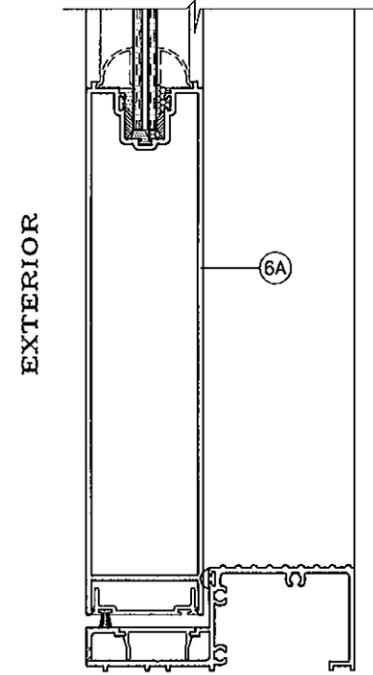
STATIONARY UNITS



OPERABLE UNITS



HI-RISE FRAME SILL
APPLICABLE TO STATIONARY AND OPERABLE UNITS



HI-PROFILE BOTTOM RAIL
APPLICABLE TO STATIONARY AND OPERABLE UNITS

Engr. JAVAD AHMAD
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[Signature]
MAY 27 2012

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to comply with the Florida
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Acceptance No. 12-0308-40
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By: *[Signature]*
Product Control

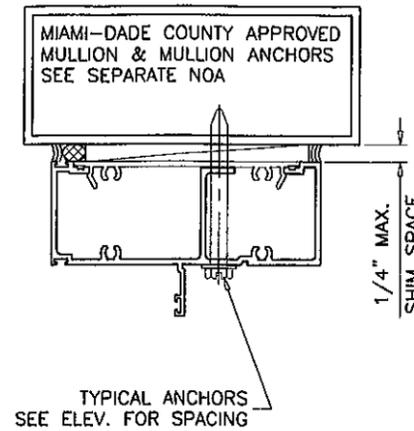
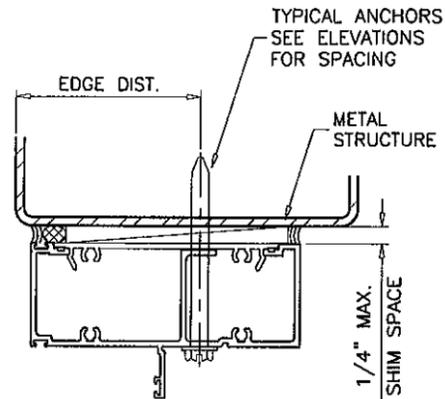
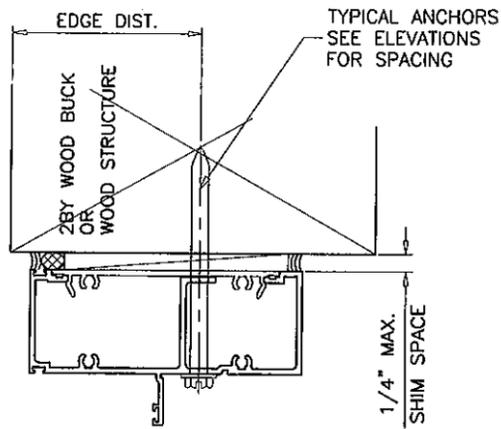
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COMP-ANL W04-51ESW

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

drawing no.
W04-51
sheet 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' (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 MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = 1/8")
 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)

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.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-0308-46
 Expiration Date 9/16/14
 By: Ismael I. Chaudhry
 Miami Dade Product Control

Engr. JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 MAY 21 2012

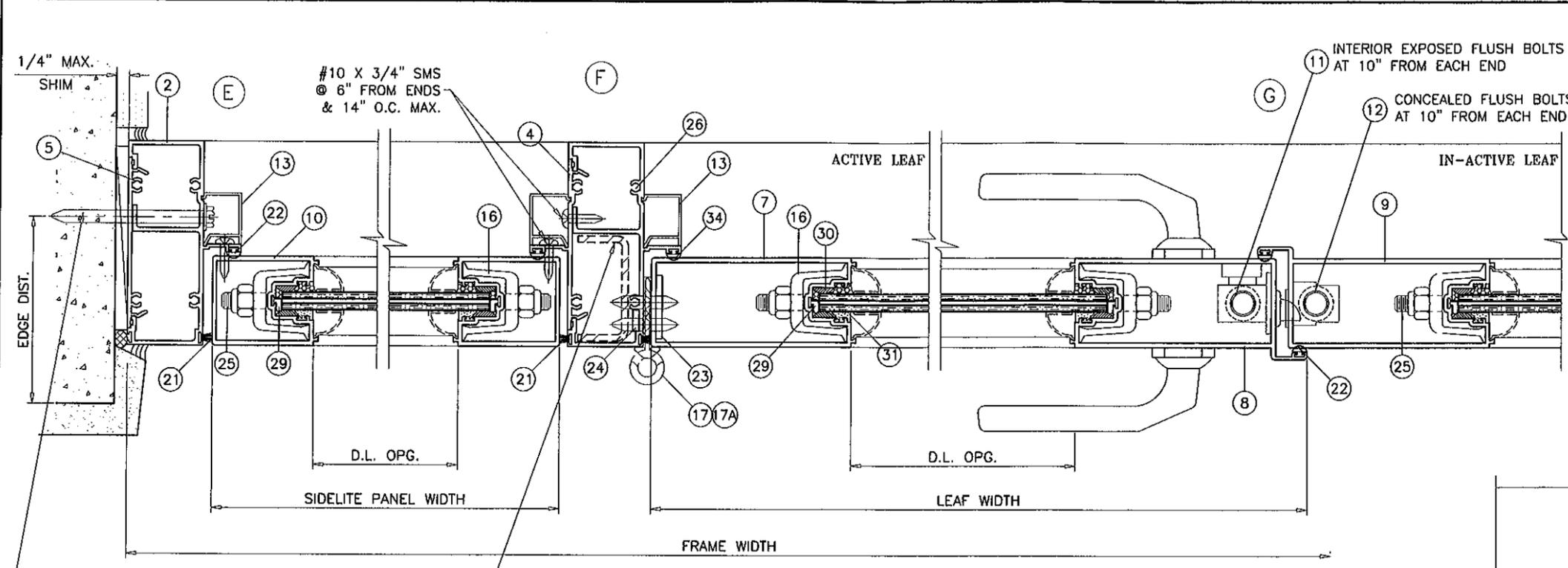
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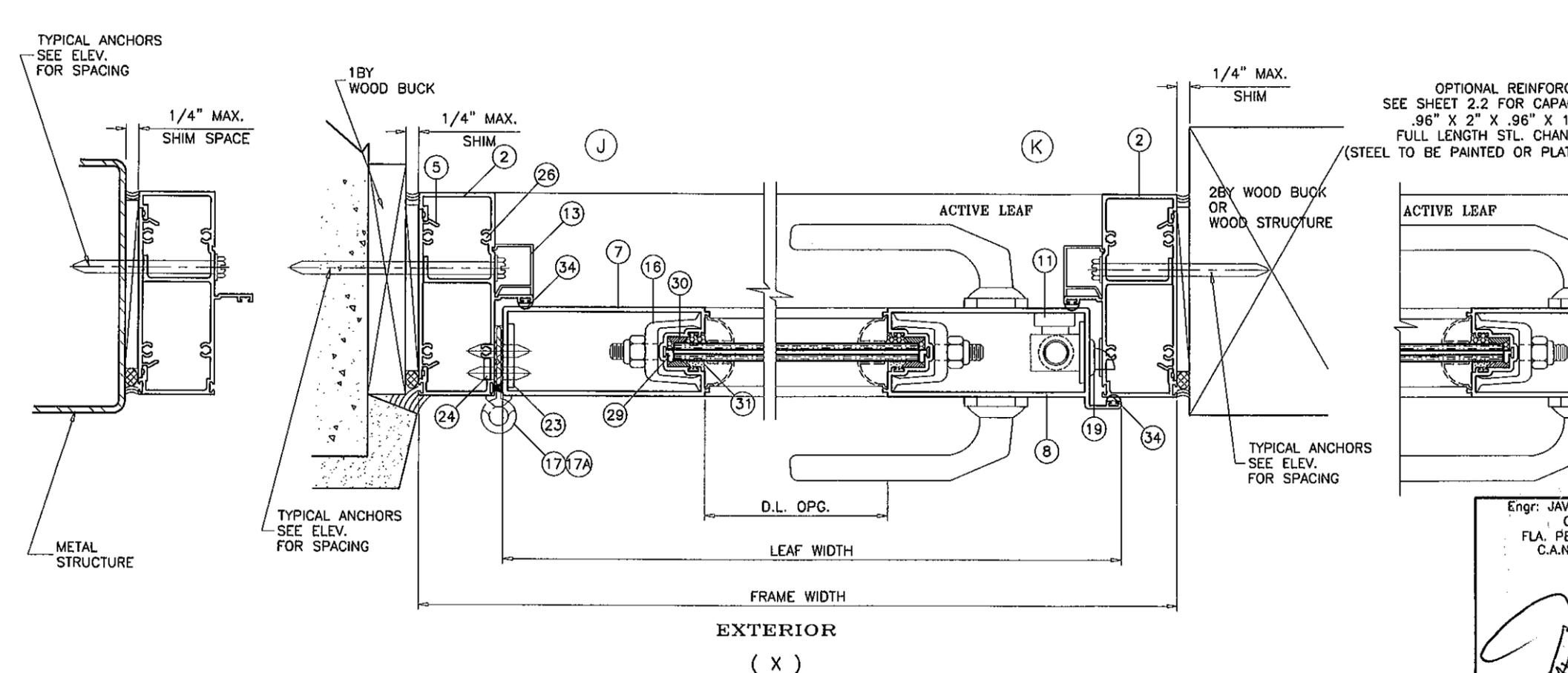
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 chk. by:

drawing no.
W04-51
 sheet 4 of 7



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

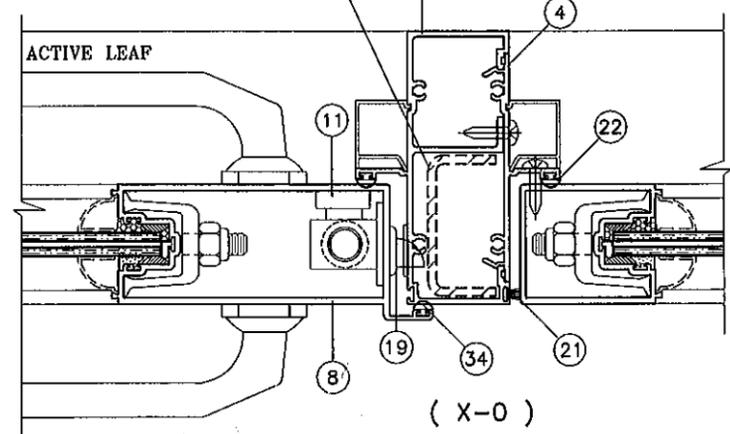


EXTERIOR
(OXXO)

(O-0)

EXTERIOR
(X)

OPTIONAL REINFORCING
SEE SHEET 2.2 FOR CAPACITY
.96" X 2" X .96" X 1/8"
FULL LENGTH STL. CHANNEL
(STEEL TO BE PAINTED OR PLATED)



(X-0)

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

MAY 17 2012

PRODUCT REVISED
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By: Shaghi Chank
Miscel Date Product Control

af c
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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	EPDM	DUROMETER 73±3 SHORE A
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

PRODUCT REVISED
 to comply with the Florida
 Building Code
 Acceptance No. 12-0308-40
 Expiration Date 9/16/14
 By: *Leah L. Chan*
 Manual Draft/Project Comm

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

 MAY 17 2012

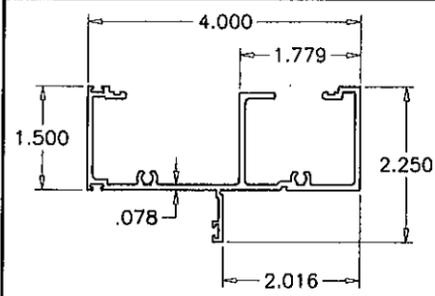
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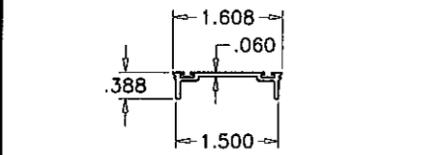
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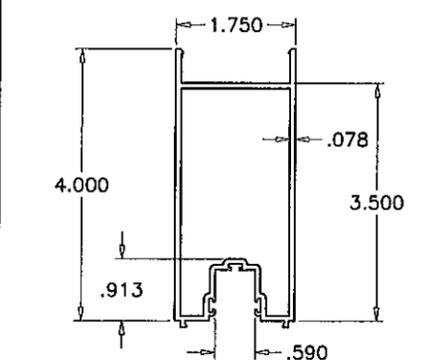
drawing no.
W04-51
 sheet 6 of 7



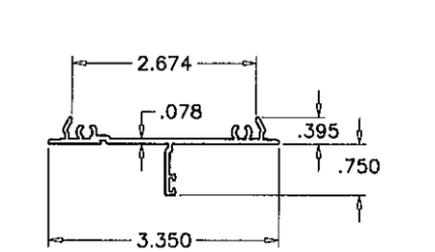
① ② FRAME HEAD/JAMB



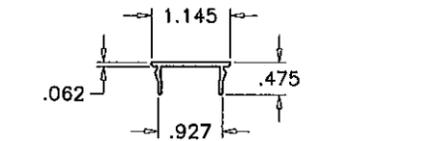
⑮ WEATHERSTRIP ADAPTER



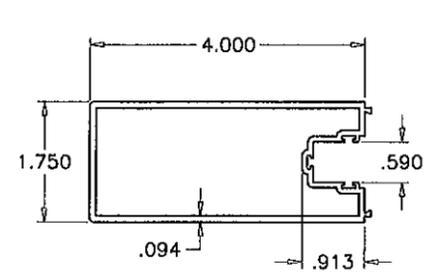
⑥ TOP/BOTTOM RAIL



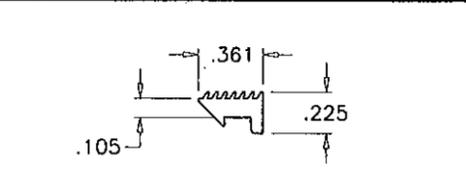
④ SIDELITE ADAPTER



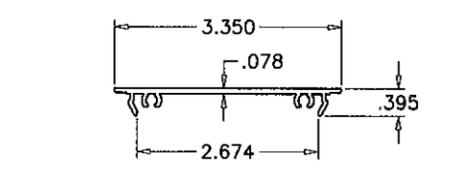
⑭ SILL COVER



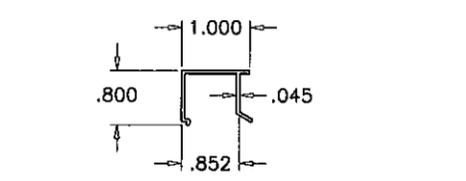
⑦ HINGE STILE



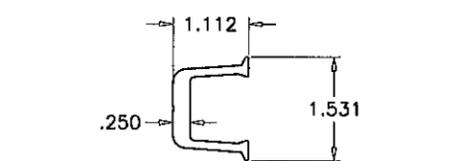
⑳ WEDGE GASKET (SCALE 1:1)



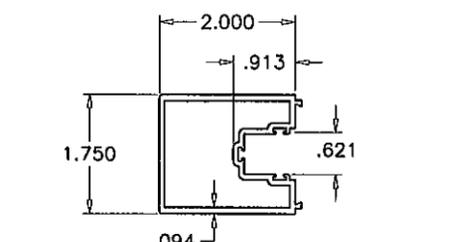
⑤ SHEAR PLATE



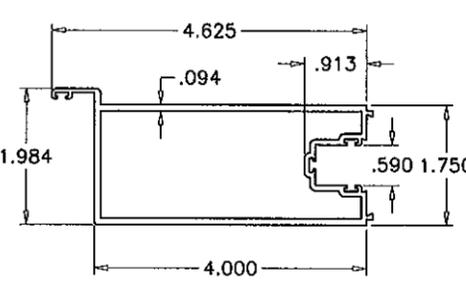
⑬ JAMB TRIM (OPTIONAL)



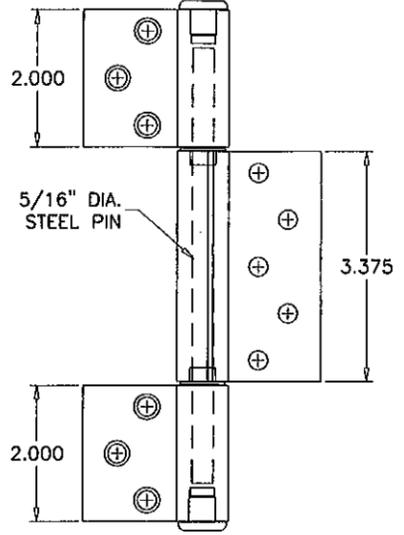
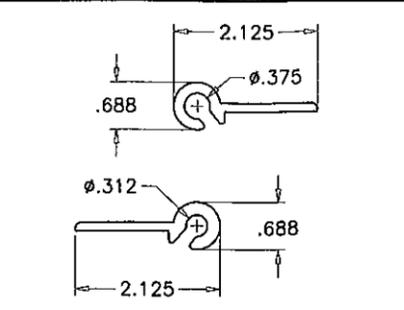
⑯ PANEL CLAMP



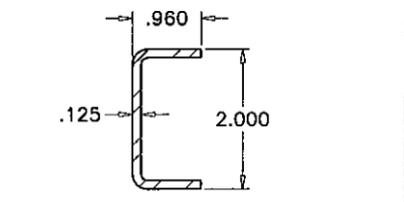
⑩ SIDE LITE STILE



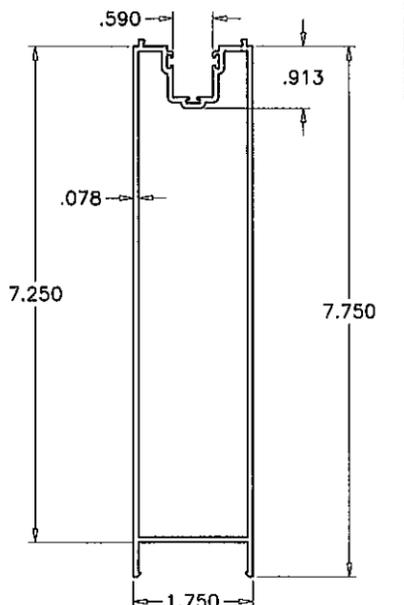
⑧ ⑨ LOCK STILE/KEEPER STILE



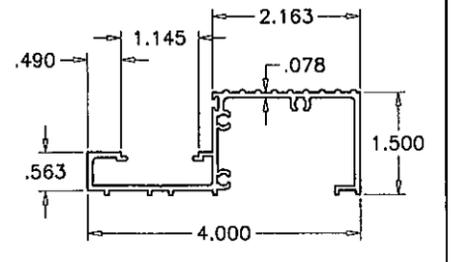
⑰ 3 PIECE HINGE



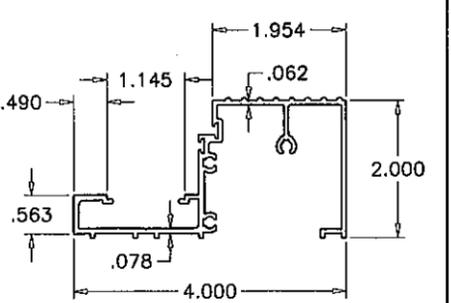
⑳ MULLION REINF. CHANNEL



⑥A HI-PROFILE BOTTOM RAIL



③ FRAME SILL (STD.)



③A FRAME SILL (HI-RISE)

Engr: JAVAD AHMAD
 CIVIL
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 By: Ishaq I. Khan
 Miami Dade Product Control

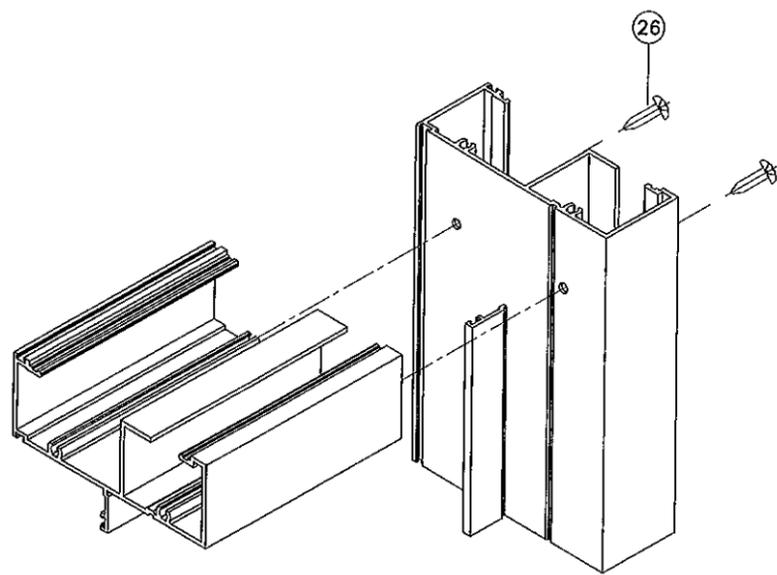
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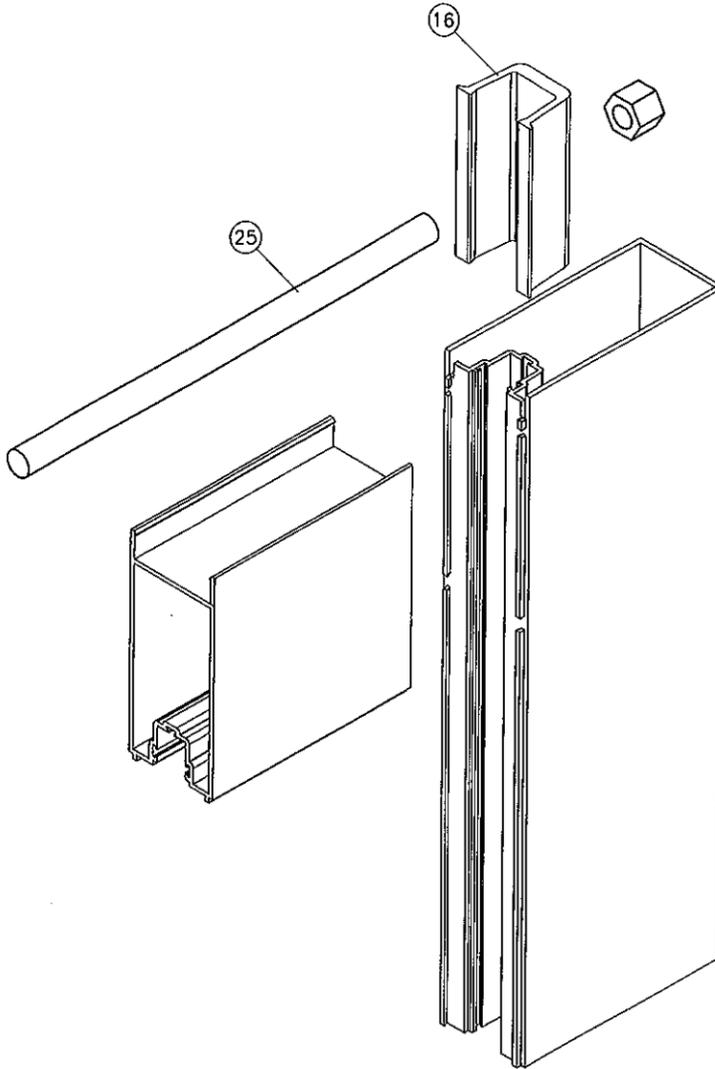
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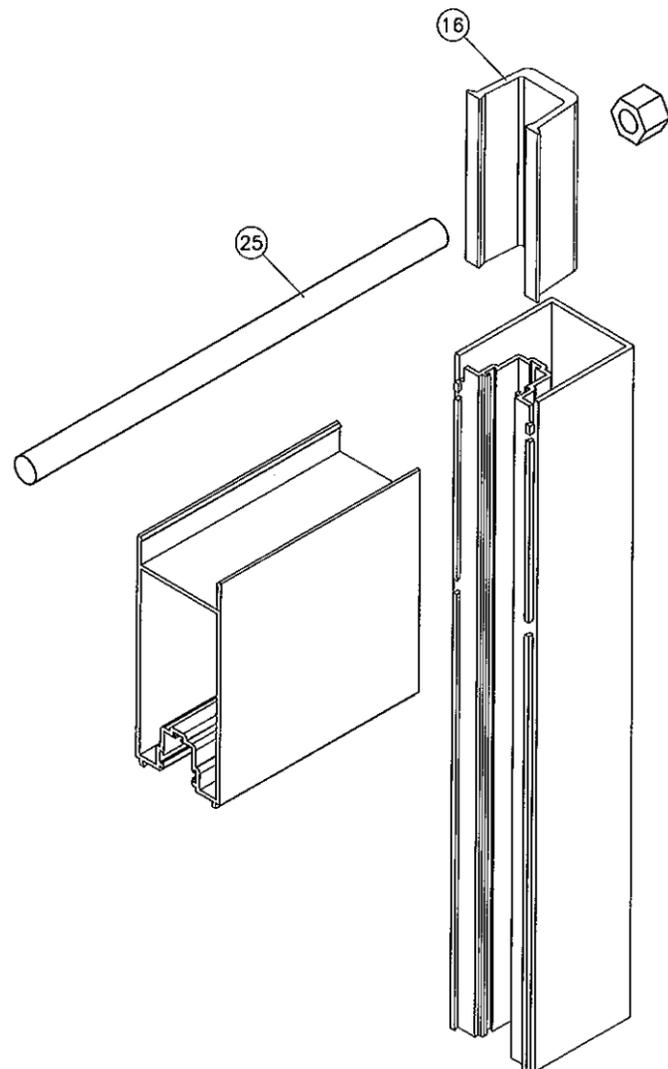
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W04-51
 sheet 6.1 of 7



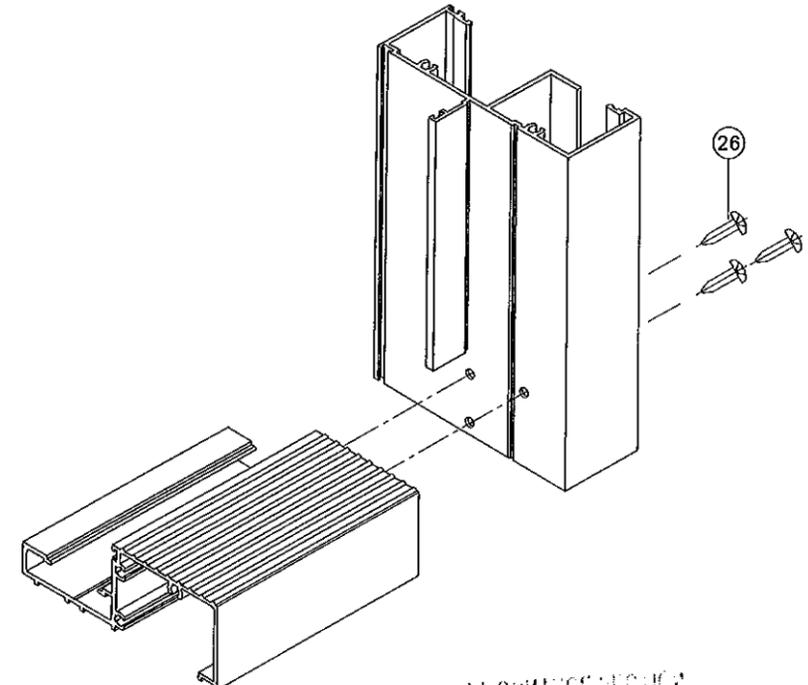
FRAME TOP CORNER



DOOR LEAF CORNER



STATIONARY PANEL OR SIDELITE CORNER



FRAME BOTTOM CORNER

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PRODUCT REVISED
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 Building Code
 Acceptance No. 12-030940
 Expiration Date Sep 16, 2014
 By: *Khag L. Chandra*
 Miami Date Product Control

Engr: JAVAD AHMAD
 CIVIL
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MAJ 17 2012

afc

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