



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) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buldingcode

Andersen Corporation
100 Fourth Avenue North
Bayport, MN 55003

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: Narrow Steel Mullion – L.M.I.

APPROVAL DOCUMENT: Drawing No. **M07-03**, titled "Narrow Steel Mullion System", sheets 1 through 11 of 11, dated 07/02/07, with Revision A dated 05/10/10, prepared by Al-Farooq Corporation, 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 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 NOA # **08-0326.01** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**




07/21/10

NOA No. 10-0603.03
Expiration Date: May 2, 2012
Approval Date: August 11, 2010
Page 1

Andersen Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **M07-03**, Sheets 1 through 11 of 11, titled "Narrow Steel Mullion System", dated 07/02/07, with Revision A dated 05/10/10, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS "Submitted under NOA # 08-0326.01"

1. Test reports on:
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94Along with installation diagram of two-wide Fiberglass/Wood Fixed Windows Mullied Jamb-to-Jamb with a Narrow Steel Mullion, prepared by Architectural Testing, Inc., Test Report No. **ATI-76004.01-201-18**, dated 01/08/08, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 05/07/10, signed and sealed by Javad Ahmad, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

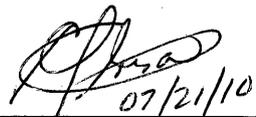
1. None.

F. STATEMENTS

1. Statement letter of code conformance to 2007 FBC and no financial interest, dated 05/07/10, signed and sealed by Javad Ahmad, P.E.
2. Laboratory compliance letter for Test Report no. **ATI-76004.01-201-18**, issued by Architectural Testing, Inc., dated 01/09/08, signed and sealed by Joseph A. Reed, P.E. "*Submitted under NOA # 08-0326.01*"

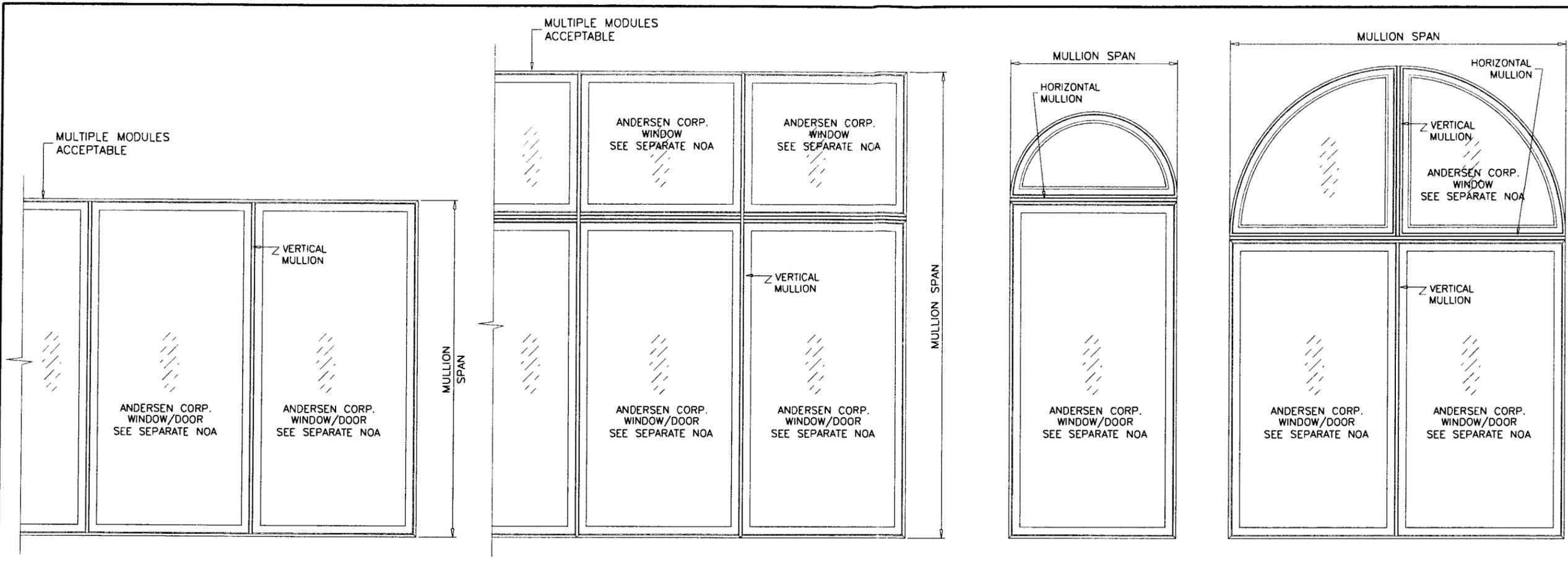
G. OTHER

1. Notice of Acceptance No. **08-0326.01**, issued to Andersen Corporation for their Narrow Steel Mullion, approved on 05/01/08 and expiring on 05/02/12.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 10-0603.03.

Expiration Date: May 2, 2012
Approval Date: August 11, 2010



TYPICAL MULLION ARRANGEMENT

**NARROW STEEL MULLION SYSTEM
WINDOW FRAME MEMBERS INCLUDED IN PROPERTIES**

DESIGN LOAD RATING FOR THIS MULLION TO BE AS PER CHARTS SHOWN ON SHEETS 4 AND 5.

APPROVAL APPLIES TO MULLIONS COMBINATIONS WITH FRAME MEMBERS OF ANDERSEN CORPORATION WINDOW AND DOORS IN ANY COMBINATIONS SEE SHEET 2 FOR WINDOW FRAME MEMBER DETAILS. SEE SHEET 3 FOR DOOR FRAME MEMBER DETAILS.

SEE SEPARATE NOA FOR WINDOW/DOOR ANCHORS AND DESIGN LOAD CAPACITY.

LOWEST VALUE RESULTING FROM MULLION, WINDOW OR DOOR 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).

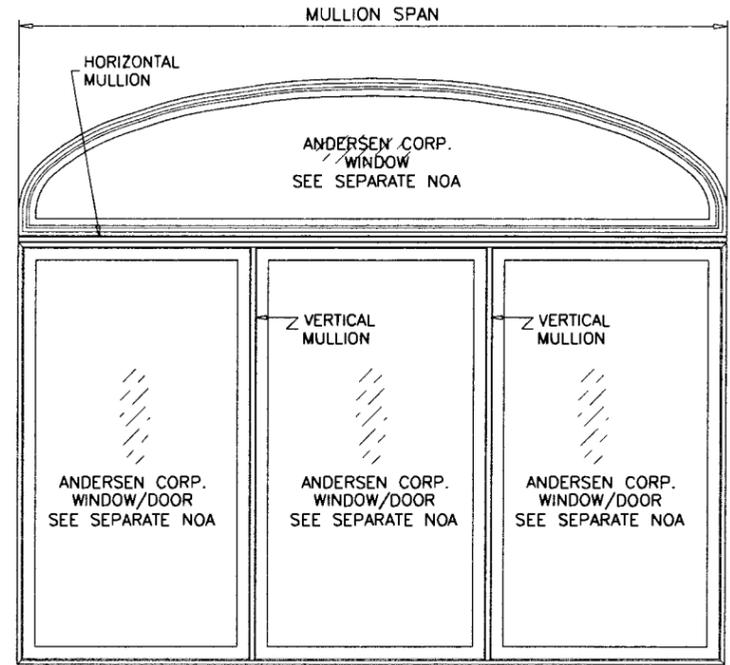
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

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.



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

MAY 14 2010

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 10-0603.03
Expiration Date 05/02/2012

By: *[Signature]*
Miami Dade Product Control Division

MULLION SYSTEM IS RATED FOR LARGE MISSILE IMPACT. AND CAN BE USED WITH ALL MIAMI-DADE COUNTY APPROVED IMPACT AND NON-IMPACT RESISTANT PRODUCTS.

af c
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
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MULLION\M07-03AC

ANDERSEN CORPORATION
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003-1096
TEL. (800) 426-7691 FAX (-)

AW
ANDERSEN

NARROW STEEL MULLION SYSTEM

no	date	by	description
A	05.10.10		UPDATED TO 2007 FBC

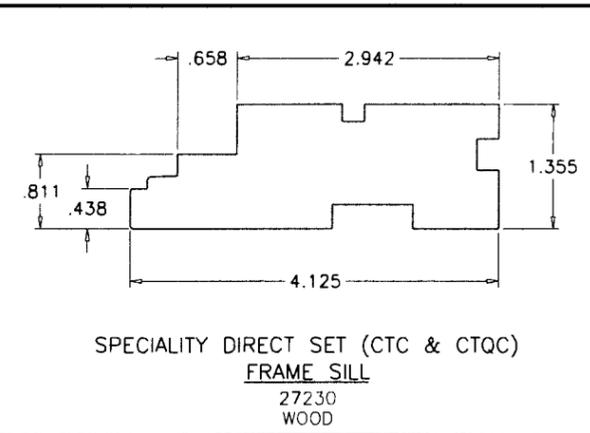
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chk. by:

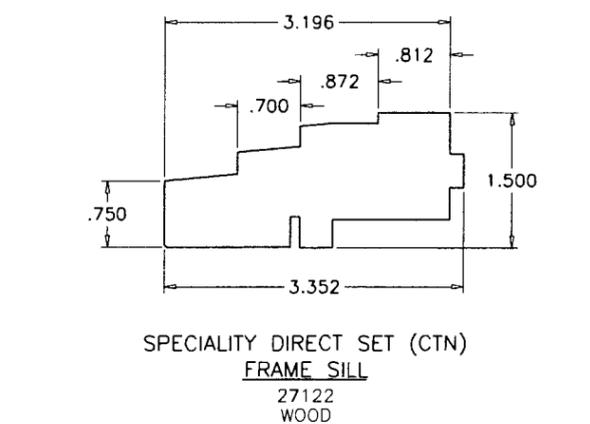
drawing no.
M07-03
sheet 1 of 11

revisions:	no	date	by	description
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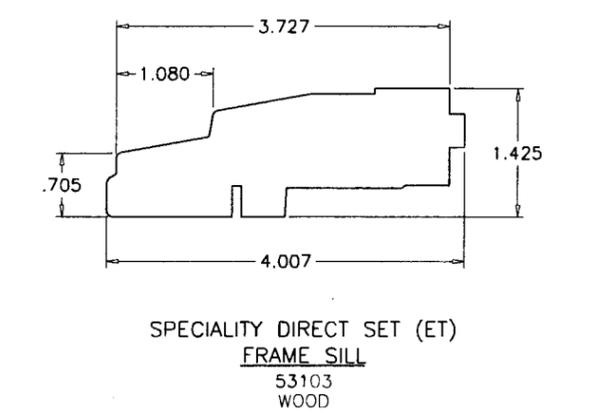
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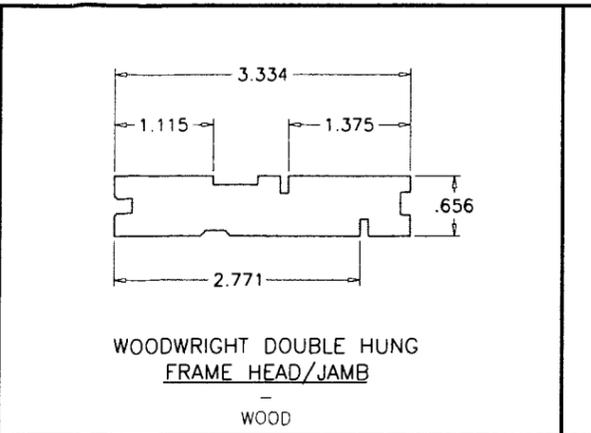
SPECIALITY DIRECT SET (CTC & CTQC)
 FRAME SILL
 27230
 WOOD



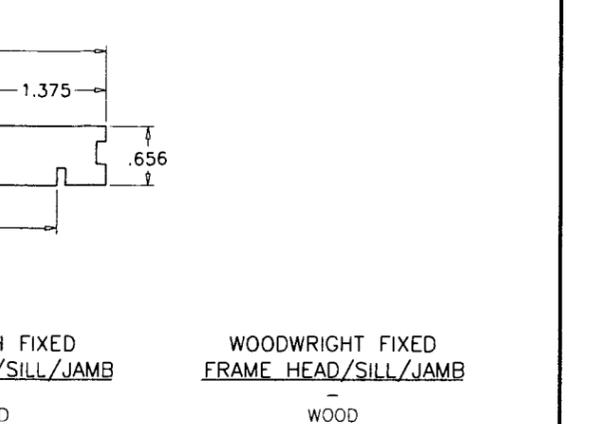
SPECIALITY DIRECT SET (CTN)
 FRAME SILL
 27122
 WOOD



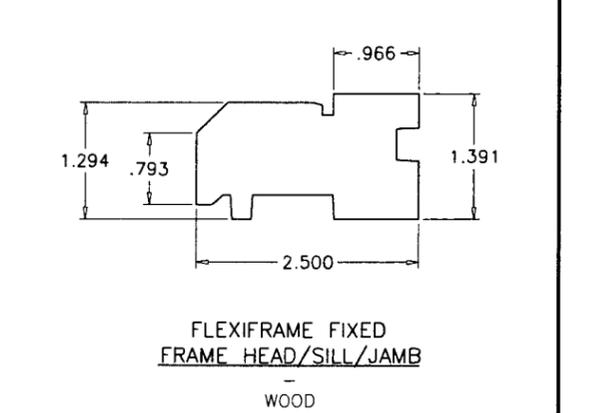
SPECIALITY DIRECT SET (ET)
 FRAME SILL
 53103
 WOOD



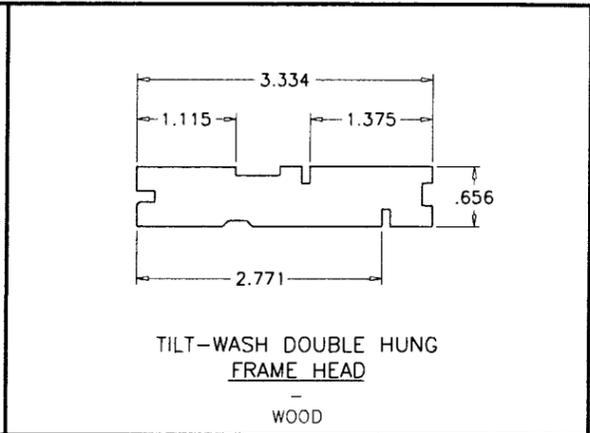
WOODWRIGHT DOUBLE HUNG
 FRAME HEAD/JAMB
 WOOD



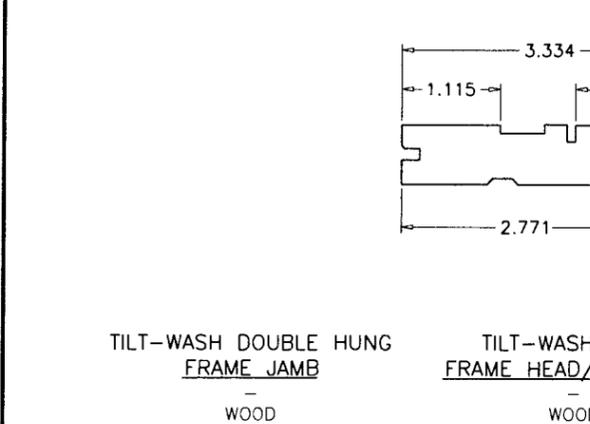
WOODWRIGHT FIXED
 FRAME HEAD/SILL/JAMB
 WOOD



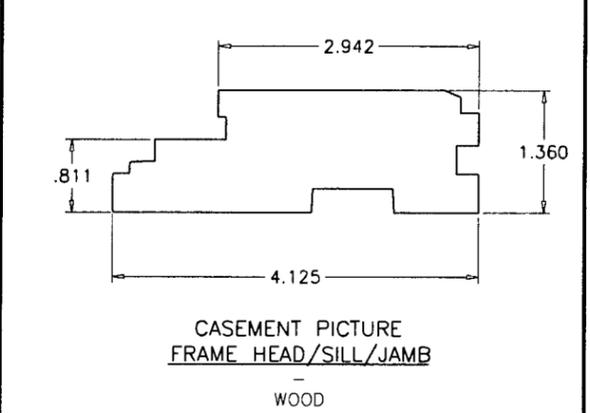
FLEXIFRAME FIXED
 FRAME HEAD/SILL/JAMB
 WOOD



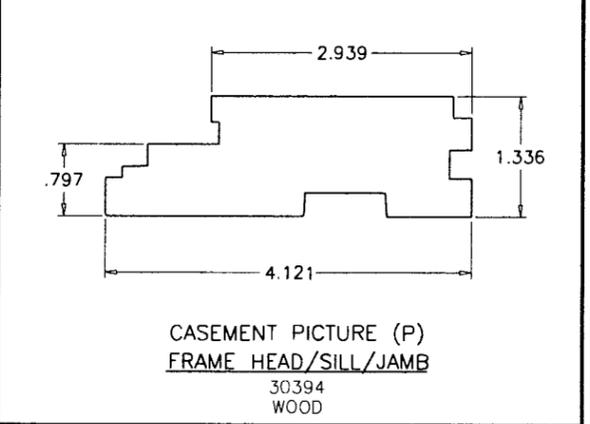
TILT-WASH DOUBLE HUNG
 FRAME HEAD
 WOOD



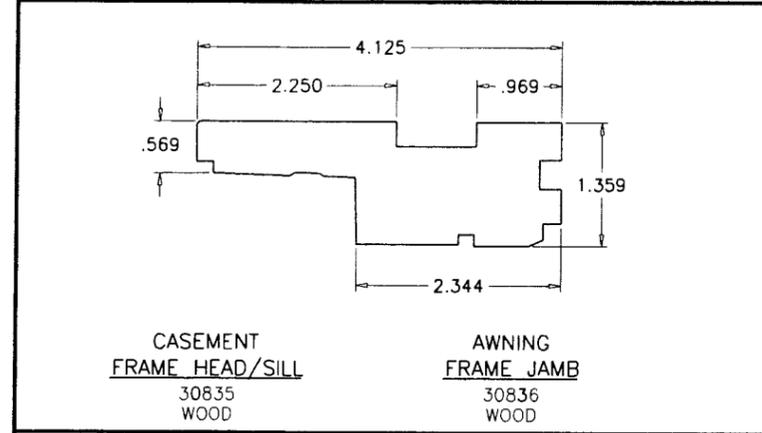
TILT-WASH FIXED
 FRAME HEAD/SILL/JAMB
 WOOD



CASEMENT PICTURE
 FRAME HEAD/SILL/JAMB
 WOOD

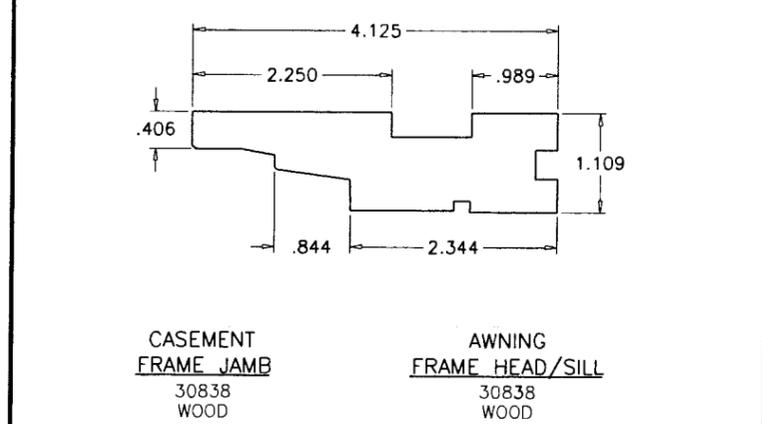


CASEMENT PICTURE (P)
 FRAME HEAD/SILL/JAMB
 30394
 WOOD



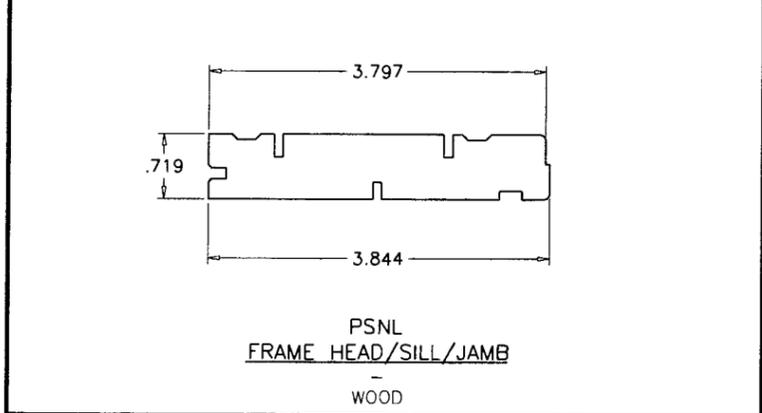
CASEMENT
 FRAME HEAD/SILL
 30835
 WOOD

AWNING
 FRAME JAMB
 30836
 WOOD



CASEMENT
 FRAME JAMB
 30838
 WOOD

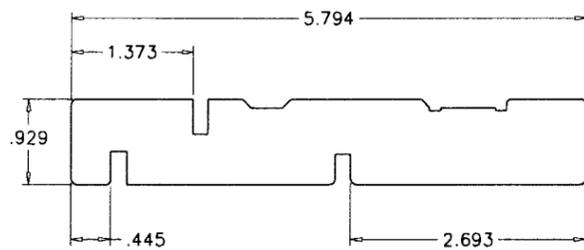
AWNING
 FRAME HEAD/SILL
 30838
 WOOD



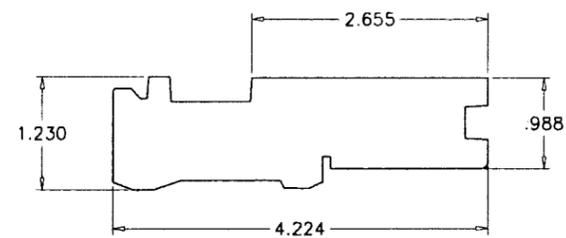
PSNL
 FRAME HEAD/SILL/JAMB
 WOOD

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 MAY 14 2010

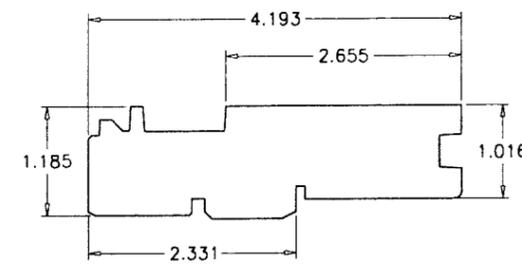
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 10-0603.03
 Expiration Date 05/07/2012
 By *[Signature]*
 Miami Dade Product Control
 Division



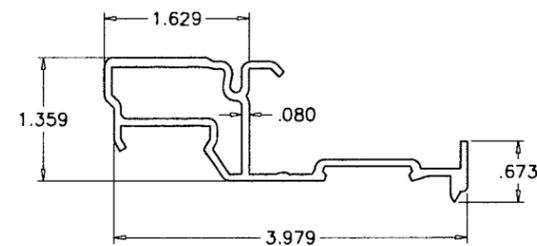
FWG
GLIDING DOOR FRAME HEAD
-
WOOD



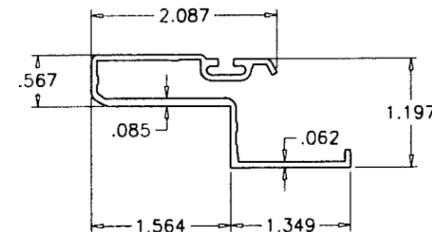
FWH
HINGED DOOR HEAD/JAMB (OPERATING/STATIONARY)
52253
WOOD



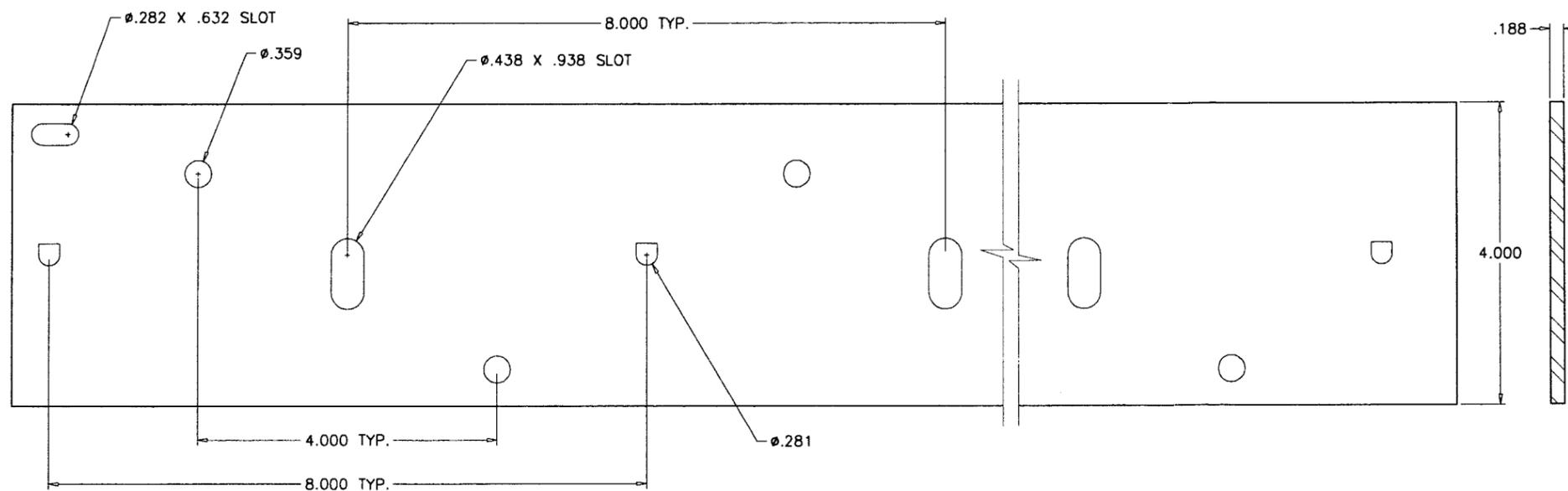
FWO
OUTSWING DOOR HEAD/JAMB (OPERATING/STATIONARY)
57019
WOOD



FWH
HINGED HEAD/JAMB COVER (OPERATING/STATIONARY)
52225
FIBERGLASS



FWO
OUTSWING HEAD/JAMB COVER (OPERATING/STATIONARY)
57031
FIBERGLASS



NARROW MULLION
-
ZINC PLATED STEEL

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

MAY 14 2010

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Expiration Date 05/02/2012
By *[Signature]*
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
MULLION\M07-03AC

NARROW STEEL MULLION SYSTEM
ANDERSEN CORPORATION
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003-1096
TEL. (800) 426-7891 FAX (-)
AW
ANDERSEN

revisions:	no	date	by	description
	A	05.10.10		NO CHANGE THIS SHEET

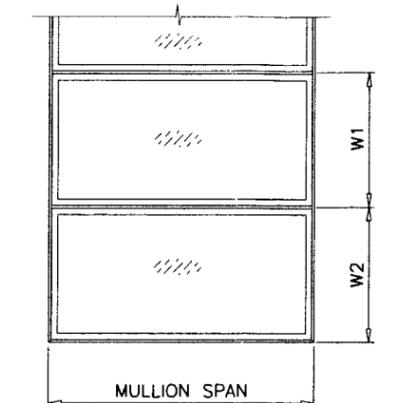
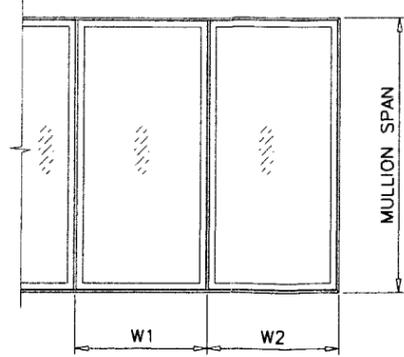
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drawing no.
M07-03
sheet 3 of 11

DESIGN LOAD CAPACITY - PSF W/O INTERMEDIATE HORIZONTALS			
WINDOW DIMS.		EXT. (+) INT. (-)	
WIDTH (W)	MULL SPAN		
12"	60"	100.0	
15"		100.0	
18"		100.0	
21"		94.2	
24"		85.0	
27"		78.0	
30"		72.5	
33"		68.2	
36"		64.8	
39"		62.0	
42"		59.8	
45"		58.0	
48"		56.7	
12"		66"	100.0
15"			100.0
18"			95.4
21"	84.0		
24"	75.6		
27"	69.1		
30"	64.0		
33"	59.9		
36"	56.7		
39"	54.0		
42"	51.8		
45"	50.0		
48"	48.6		
12"	72"		100.0
15"			100.0
18"			86.3
21"		75.8	
24"		68.0	
27"		62.0	
30"		57.3	
33"		53.5	
36"		50.4	
39"		47.8	
42"		45.7	
45"		44.0	
48"		42.5	
12"		78"	100.0
15"			92.6
18"			78.8
21"	69.1		
24"	61.8		
27"	56.2		
30"	51.8		
33"	48.2		
36"	45.3		
39"	42.9		
42"	40.9		

DESIGN LOAD CAPACITY - PSF W/O INTERMEDIATE HORIZONTALS			
WINDOW DIMS.		EXT. (+) INT. (-)	
WIDTH (W)	MULL SPAN		
12"	84"	100.0	
15"		85.3	
18"		72.5	
21"		63.4	
24"		56.7	
27"		51.4	
30"		47.3	
33"		44.0	
36"		41.2	
39"		38.9	
12"		90"	97.1
15"			79.1
18"			67.2
21"			58.7
24"			52.3
27"			47.4
30"	43.5		
33"	40.4		
36"	37.8		
12"	96"		90.7
15"			73.8
18"			62.5
21"			54.5
24"			48.6
27"			44.0
30"			40.3
33"		37.3	
36"		34.9	
12"		102"	85.0
15"			69.1
18"			58.5
21"			51.0
24"			45.3
27"			41.0
30"			37.5
33"	34.7		
12"	108"		80.0
15"			65.0
18"			54.9
21"			47.8
24"			42.5
27"			38.4
30"			35.1
12"			114"
15"		61.3	
18"		51.8	
21"		45.1	
24"		40.0	
27"		36.1	
30"		33.0	

DESIGN LOAD CAPACITY - PSF W/O INTERMEDIATE HORIZONTALS				
WINDOW DIMS.		EXT. (+) INT. (-)		
WIDTH (W)	MULL SPAN			
12"	120"	71.6		
15"		58.0		
18"		49.0		
21"		42.6		
24"		37.8		
27"		34.1		
12"		126"	68.0	
15"			55.1	
18"			46.5	
21"			40.4	
24"			35.8	
27"			32.2	
12"			132"	64.8
15"				52.4
18"				44.2
21"				38.1
24"	33.4			
12"	138"			60.6
15"				48.5
18"				40.5
21"				34.8
24"				30.5
12"		144"		55.3
15"				44.3
18"				37.0
21"				31.7
24"				27.8



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3533
 MAY 14 2010

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By: *[Signature]*
 Miami Dade Product Control
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af c

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 ENGINEERS & PRODUCT DEVELOPMENT
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ANDERSEN CORPORATION
 100 FOURTH AVE. NORTH
 BAYPORT, MN. 55003-1096
 TEL. (800) 426-7891 FAX (-)

AW

NARROW STEEL MULLION SYSTEM

no	date	by	description
A	05.10.10		CHART REVISED

revisions:

date: 07-02-07
 scale: -
 dr. by: HAMID
 chk. by:

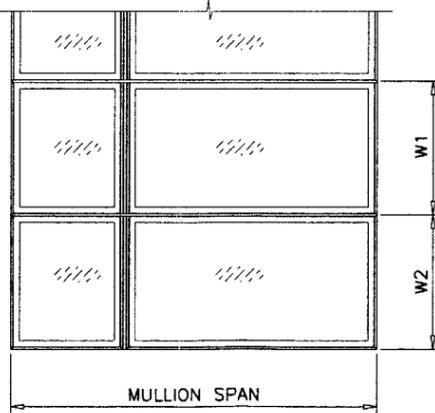
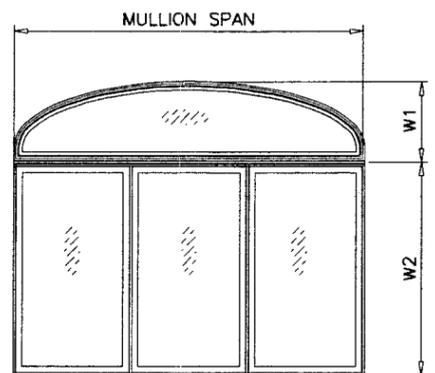
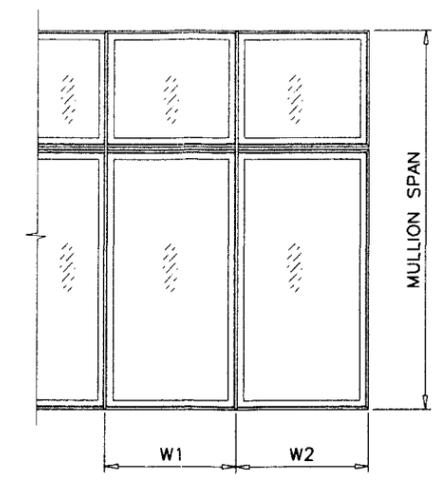
drawing no.
M07-03

sheet 4 of 11

DESIGN LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS			
WINDOW DIMS.		EXT. (+) INT. (-)	
WIDTH (W)	MULLION SPAN		
12"	60"	100.0	
15"		100.0	
18"		100.0	
21"		94.2	
24"		85.0	
27"		78.0	
30"		72.5	
33"		68.2	
36"		64.8	
39"		62.0	
42"		59.8	
45"		58.0	
48"		56.7	
12"		66"	100.0
15"			100.0
18"			95.4
21"	84.0		
24"	75.6		
27"	69.1		
30"	64.0		
33"	59.9		
36"	56.7		
39"	54.0		
42"	51.8		
45"	50.0		
48"	48.6		
12"	72"		100.0
15"			100.0
18"			86.3
21"		75.8	
24"		68.0	
27"		62.0	
30"		57.3	
33"		53.5	
36"		50.4	
39"		47.8	
42"		45.7	
45"		44.0	
48"		42.5	
12"		78"	100.0
15"			92.6
18"			78.8
21"	69.1		
24"	61.8		
27"	56.2		
30"	51.8		
33"	48.2		
36"	45.3		
39"	42.9		
42"	40.9		

DESIGN LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS			
WINDOW DIMS.		EXT. (+) INT. (-)	
WIDTH (W)	MULLION SPAN		
12"	84"	100.0	
15"		85.3	
18"		72.5	
21"		63.4	
24"		56.7	
27"		51.4	
30"		47.3	
33"		44.0	
36"		41.2	
39"		38.9	
12"		90"	97.1
15"			79.1
18"			67.2
21"			58.7
24"			52.3
27"			47.4
30"	43.5		
33"	40.4		
36"	37.8		
12"	96"		90.7
15"			73.8
18"			62.5
21"			54.5
24"			48.6
27"			44.0
30"			40.3
33"		37.3	
36"		34.9	
12"		102"	85.0
15"			69.1
18"			58.5
21"			51.0
24"			45.3
27"			41.0
30"			37.5
33"	34.7		
12"	108"		80.0
15"			65.0
18"			54.9
21"			47.8
24"			42.5
27"			38.4
30"			35.1
12"			114"
15"		61.3	
18"		51.8	
21"		45.1	
24"		39.9	
27"		35.5	
30"		31.9	

DESIGN LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS				
WINDOW DIMS.		EXT. (+) INT. (-)		
WIDTH (W)	MULLION SPAN			
12"	120"	71.6		
15"		57.6		
18"		48.0		
21"		41.1		
24"		36.0		
27"		32.0		
12"		126"	65.3	
15"			52.2	
18"			43.5	
21"			37.3	
24"			32.7	
27"			29.0	
12"			132"	59.5
15"				47.6
18"				39.7
21"				34.0
24"	29.8			
12"	138"			54.4
15"				43.6
18"				36.3
21"				31.1
24"				27.2
12"		144"		49.7
15"				39.8
18"				33.2
21"				28.4
24"				24.9



$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$

Engr. JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 MAY 14 2010

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 Expiration Date 05/02/2012

By: *[Signature]*
 Miami Dade Product Control
 Division

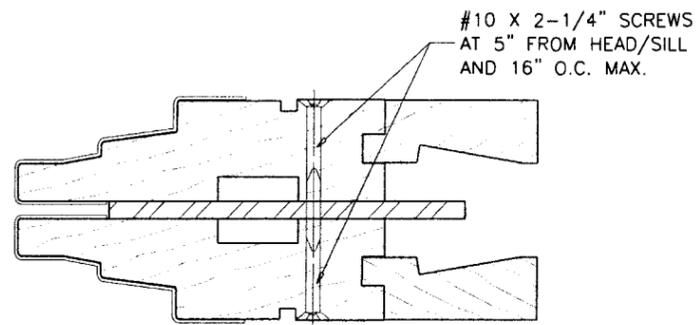
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AL-FAROOQ CORPORATION
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 MIAMI, FLORIDA 33174
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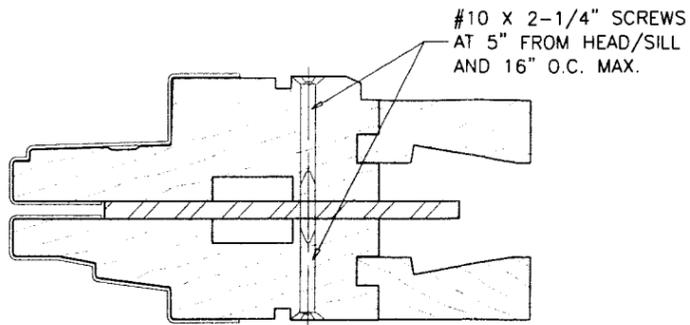
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 scale: -
 dr. by: HAMID
 chk. by:

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M07-03
 sheet 5 of 11

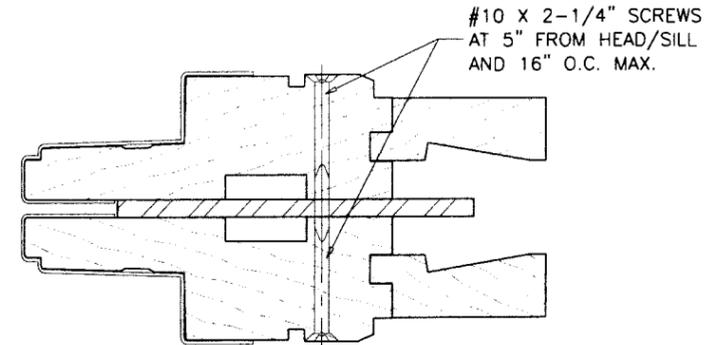


CASEMENT TO CASEMENT
VERTICAL JOIN

AWNING TO AWNING
HORIZONTAL JOIN

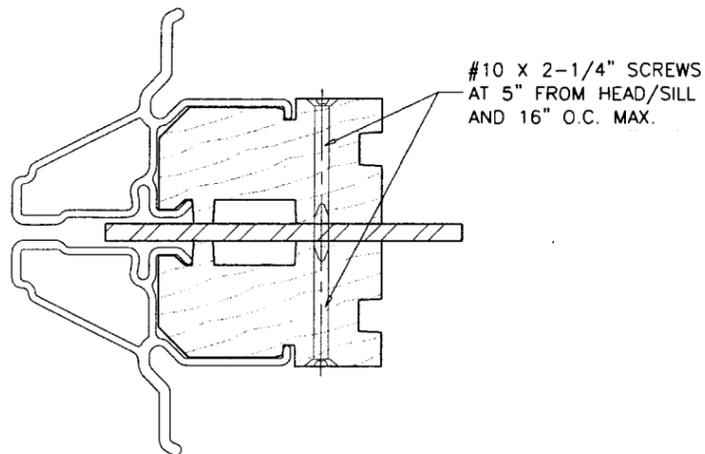


CASEMENT TO AWNING
VERTICAL OR HORIZONTAL JOIN

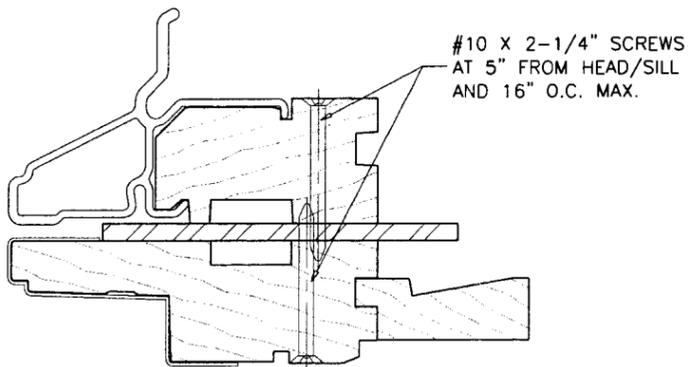


CASEMENT TO CASEMENT
HORIZONTAL JOIN

AWNING TO AWNING
VERTICAL JOIN

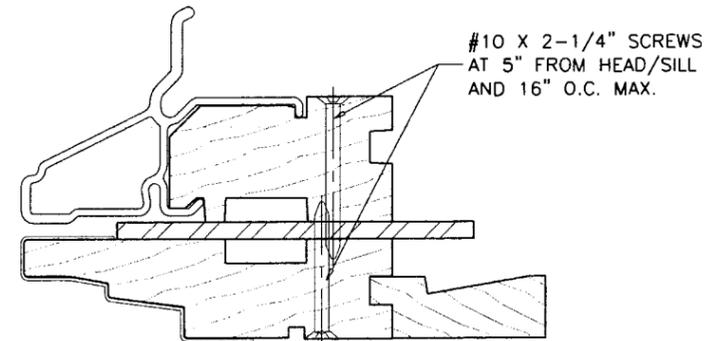


FLEXIFRAME TO FLEXIFRAME
VERTICAL OR HORIZONTAL JOIN



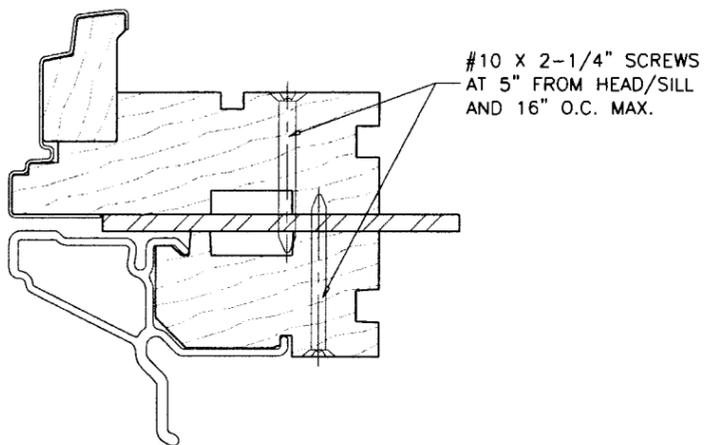
CASEMENT TO FLEXIFRAME
HORIZONTAL JOIN

AWNING TO FLEXIFRAME
VERTICAL JOIN



CASEMENT TO FLEXIFRAME
VERTICAL JOIN

AWNING TO FLEXIFRAME
HORIZONTAL JOIN



FLEXIFRAME TO CIRCLE TOP/QUARTER
VERTICAL OR HORIZONTAL JOIN

Engr: JAVAD AHMAD
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FLA. PE # 70592
C.A.N. 3538
MAY 14 2010
JA

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By *JA*
Miami Trade Product Control
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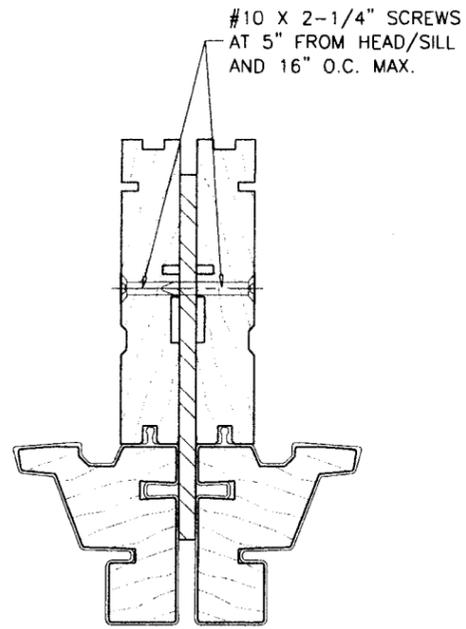
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1235 S.W. 87 AVE
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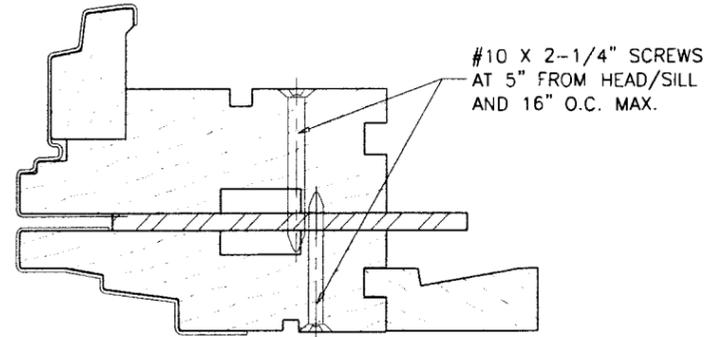
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dr. by: HAMID
chk. by:

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M07-03
sheet 6 of 11

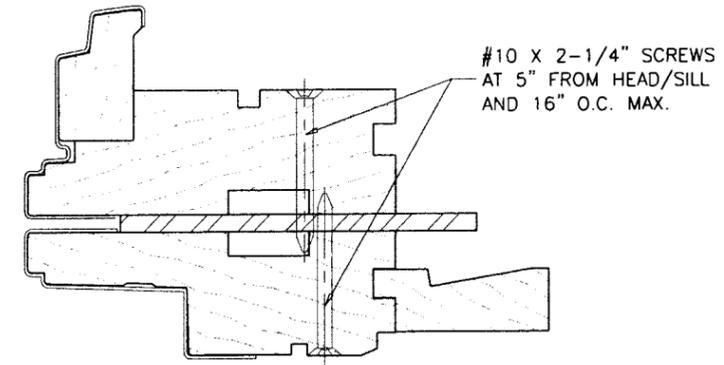


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VERTICAL JOIN

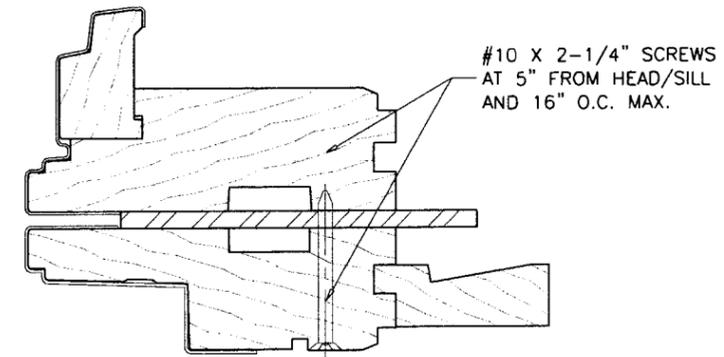
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VERTICAL JOIN



CIRCLE TOP TO AWNING
HORIZONTAL JOIN

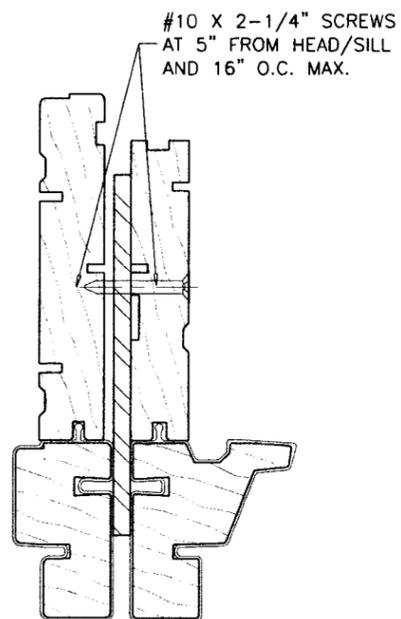


CIRCLE TOP TO CASEMENT
HORIZONTAL JOIN

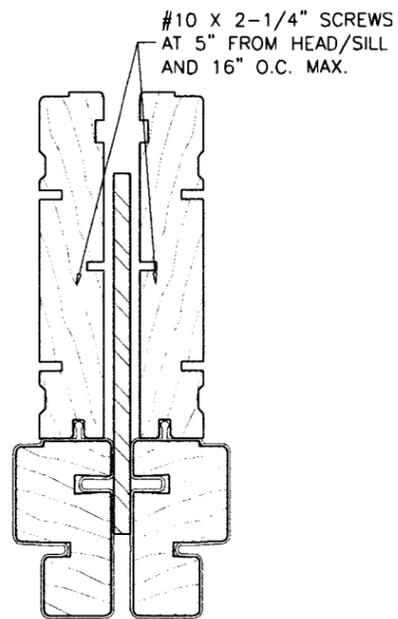


CASMT PICTURE WDW. TO AWNING
VERTICAL JOIN

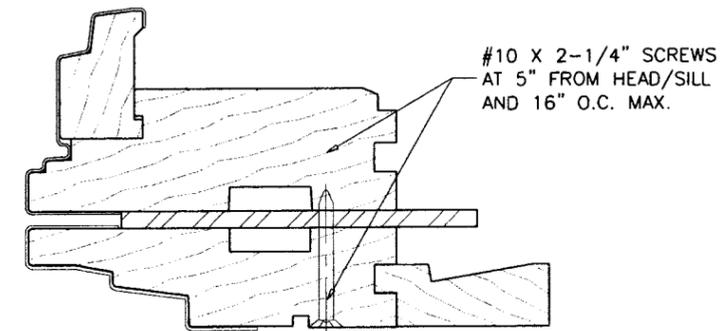
CASMT PICTURE WDW. TO CASEMENT
HORIZONTAL JOIN



PSNL WDW TO 400 TWDH PICTURE WDW
VERTICAL JOIN



PSNL WDW TO PSNL WDW
VERTICAL JOIN



CASMT PICTURE WDW. TO AWNING
HORIZONTAL JOIN

CASMT PICTURE WDW. TO CASEMENT
VERTICAL JOIN

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FLA. PE # 70592
C.A.N. 3538
MAY 14 2010

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By: *[Signature]*
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Division

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1235 S.W. 87 AVE
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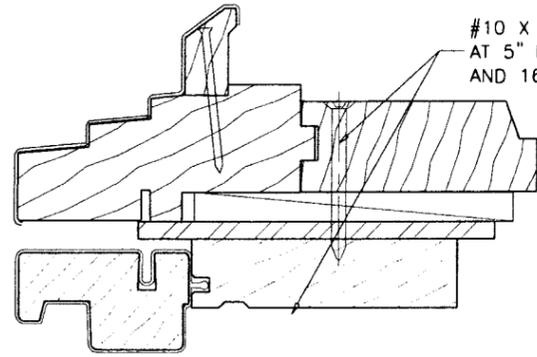
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ANDERSEN CORPORATION
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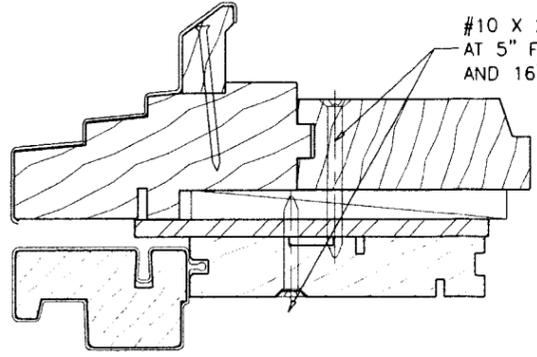
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chk. by:

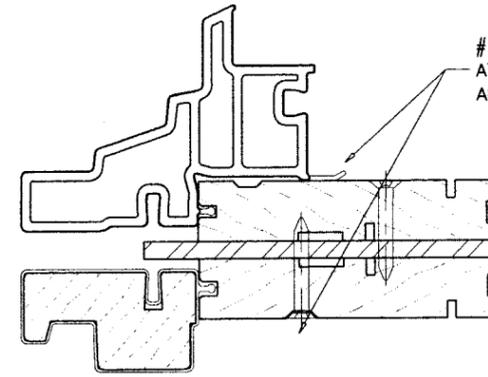
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PSNL TO CIRCLE TOP-NL
HORIZONTAL JOIN



400 TW TO CIRCLE TOP-NL
HORIZONTAL JOIN



400 TW TO TW TRANSOM
HORIZONTAL JOIN

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CIVIL
FLA. PE # 70592
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J.A.

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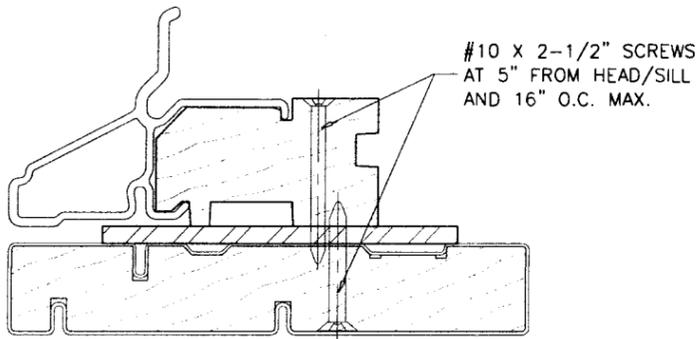
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chk. by:

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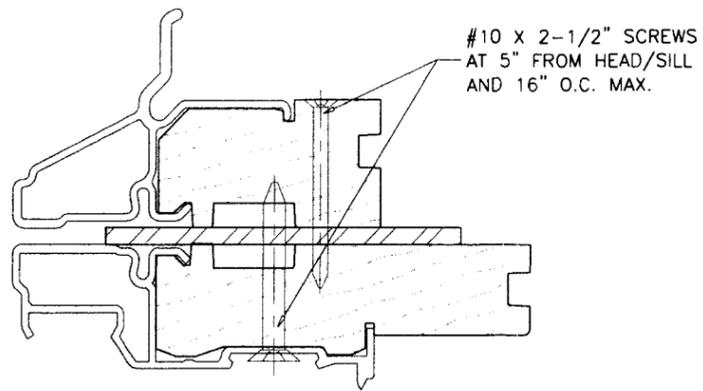
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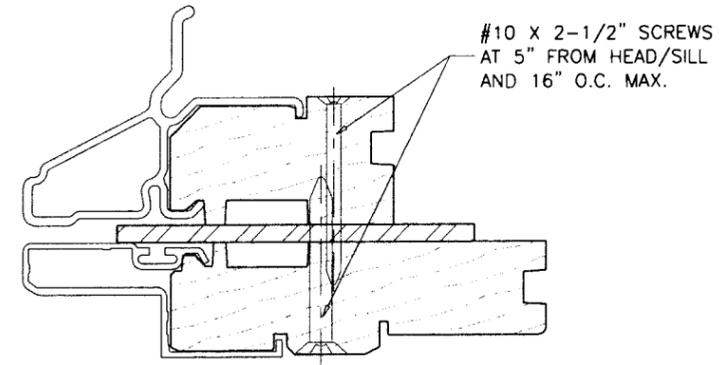
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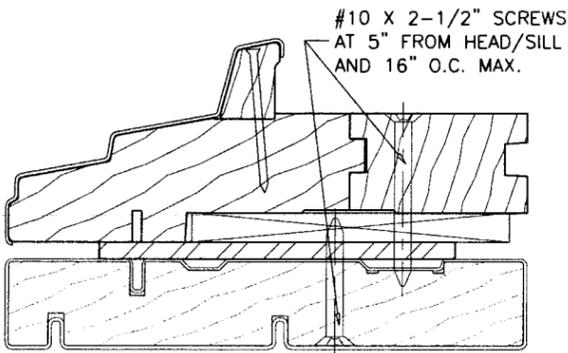
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HORIZONTAL JOIN



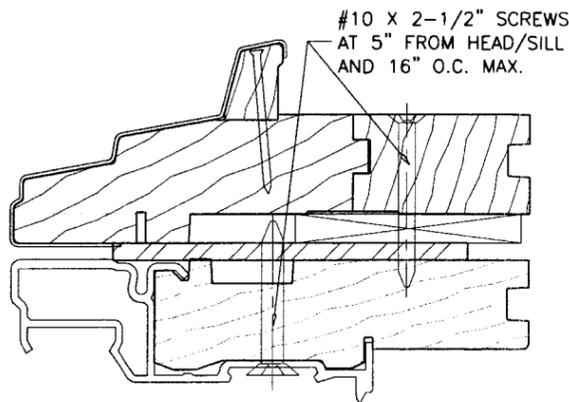
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HORIZONTAL JOIN



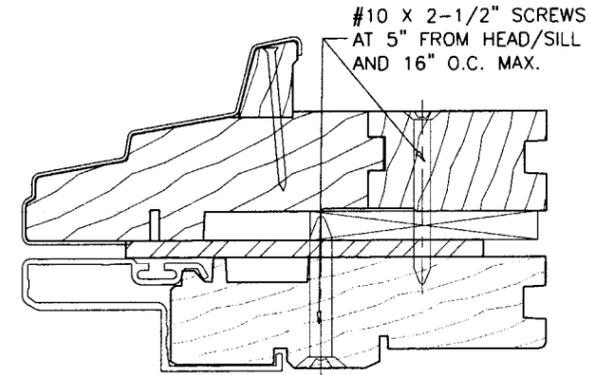
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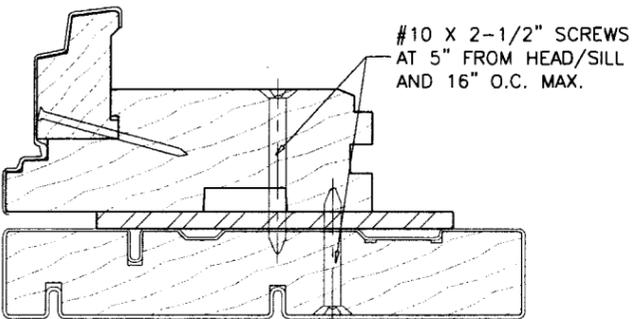
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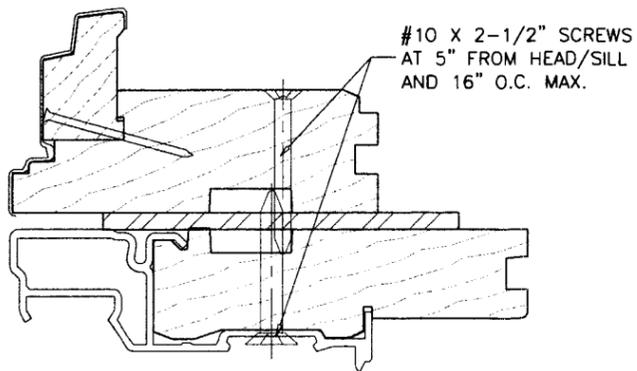
FLEXIFRAME/ARCH/SPRINGLINE TO FWH DOOR
HORIZONTAL JOIN



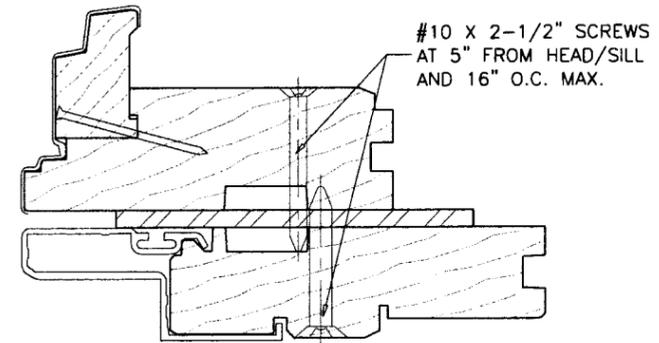
FLEXIFRAME/ARCH/SPRINGLINE TO FWO DOOR
HORIZONTAL JOIN



PSCA PICTURE WDW TO FW GLIDING DOOR
HORIZONTAL JOIN



PSCA PICTURE WDW TO FWH DOOR
HORIZONTAL JOIN



PSCA PICTURE WDW TO FWO DOOR
HORIZONTAL JOIN

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C.A.N. 3536
MAY 14 2010
JA

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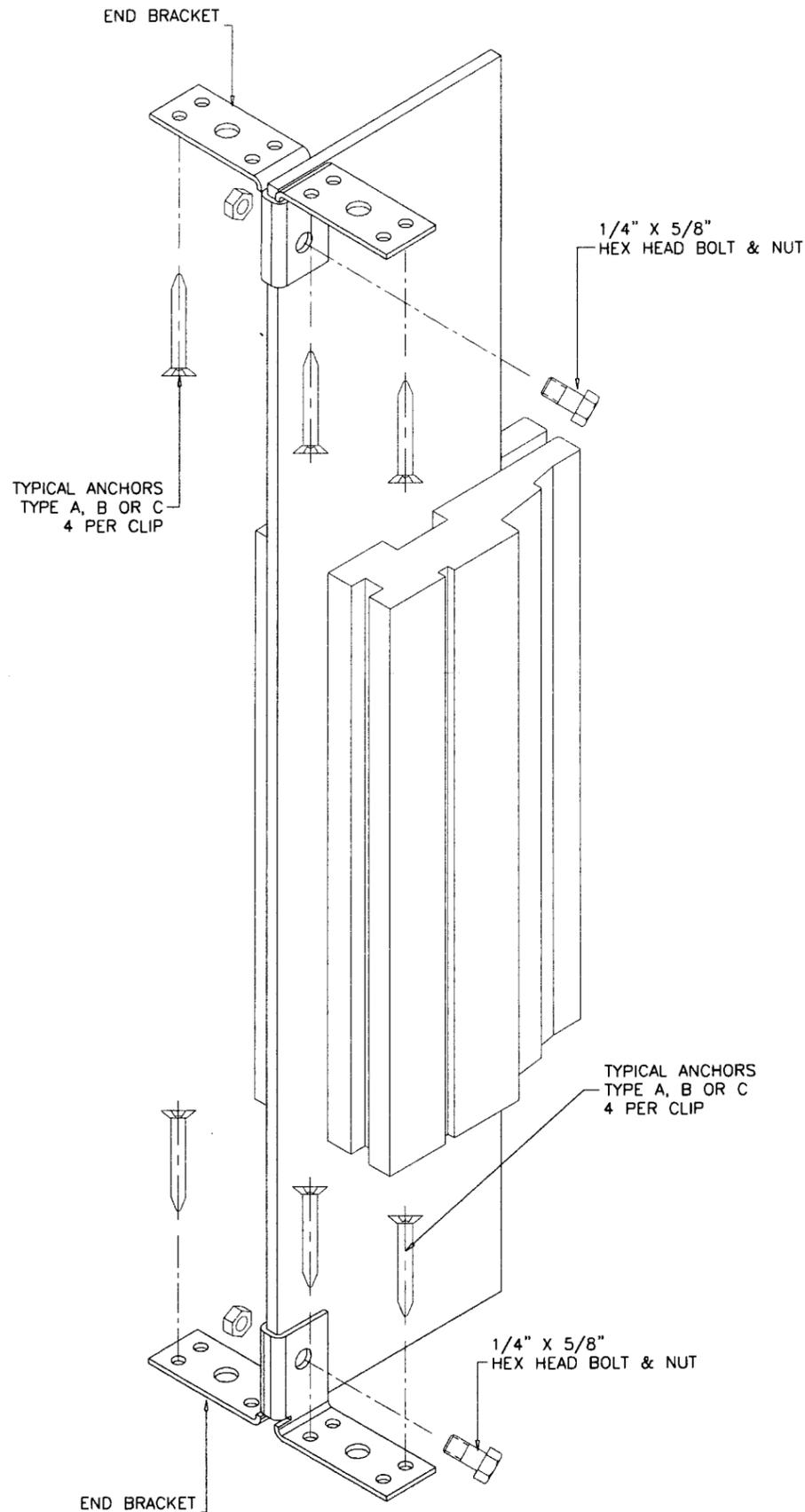
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MIAMI, FLORIDA 33174
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NARROW STEEL MULLION SYSTEM
ANDERSEN CORPORATION
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003-1096
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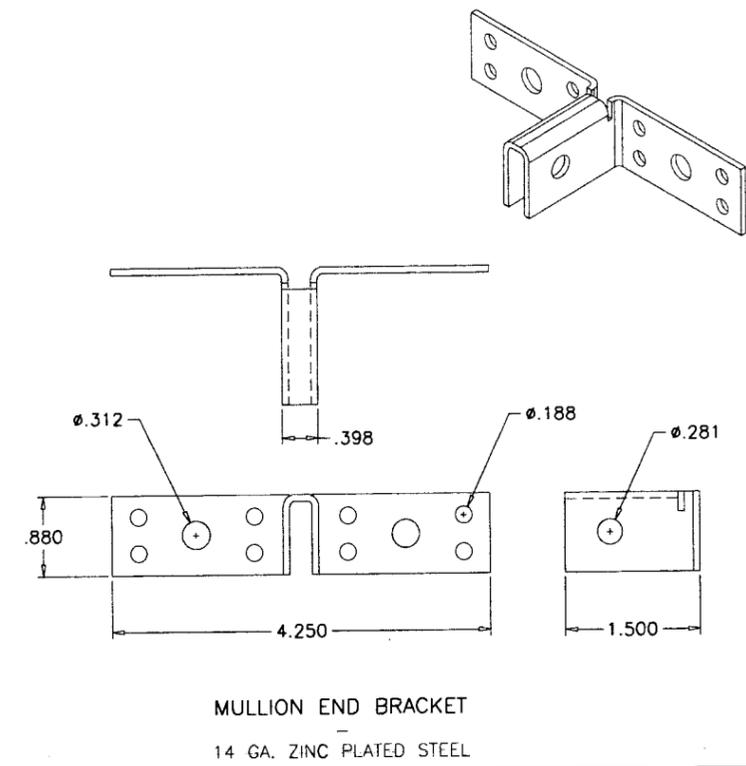
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dr. by: HAMID
chk. by:

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M07-03
sheet 9 of 11



**VERTICAL OR HORIZONTAL
MULLION CONNECTION**



MULLION END BRACKET
14 GA. ZINC PLATED STEEL

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - #12 SMS OR WOOD SCREWS (GRADE 2 CRS)
INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
1-3/8" MIN. PENETRATION INTO WOOD

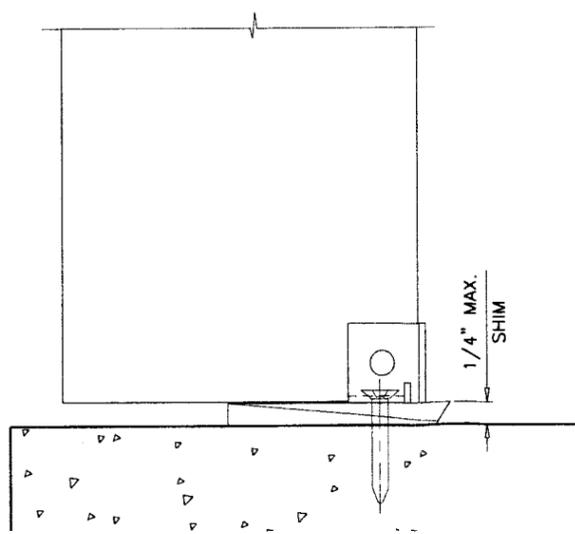
TYPE 'B' - 3/16" DIA. ULTRACON BY 'ELCO' (Fu=177 KSI, Fy=155 KSI)
THRU 1BY WOOD BUCKS INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY
DIRECTLY INTO CONC. OR MASONRY
1-1/4" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'C' - #12 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
INTO METAL STRUCTURES
STEEL : 12 GA. MIN. (Fy = 36 KSI MIN.)
ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE
INTO CONCRETE OR MASONRY = 1-7/8" MIN.
INTO WOOD STRUCTURE = 3/4" MIN.
INTO METAL STRUCTURE = 1/2" MIN.

ANCHORS CL TO CL DISTANCES
INTO CONCRETE AND MASONRY = 1-3/16" MIN.
INTO WOOD STRUCTURE = 3/4" 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.



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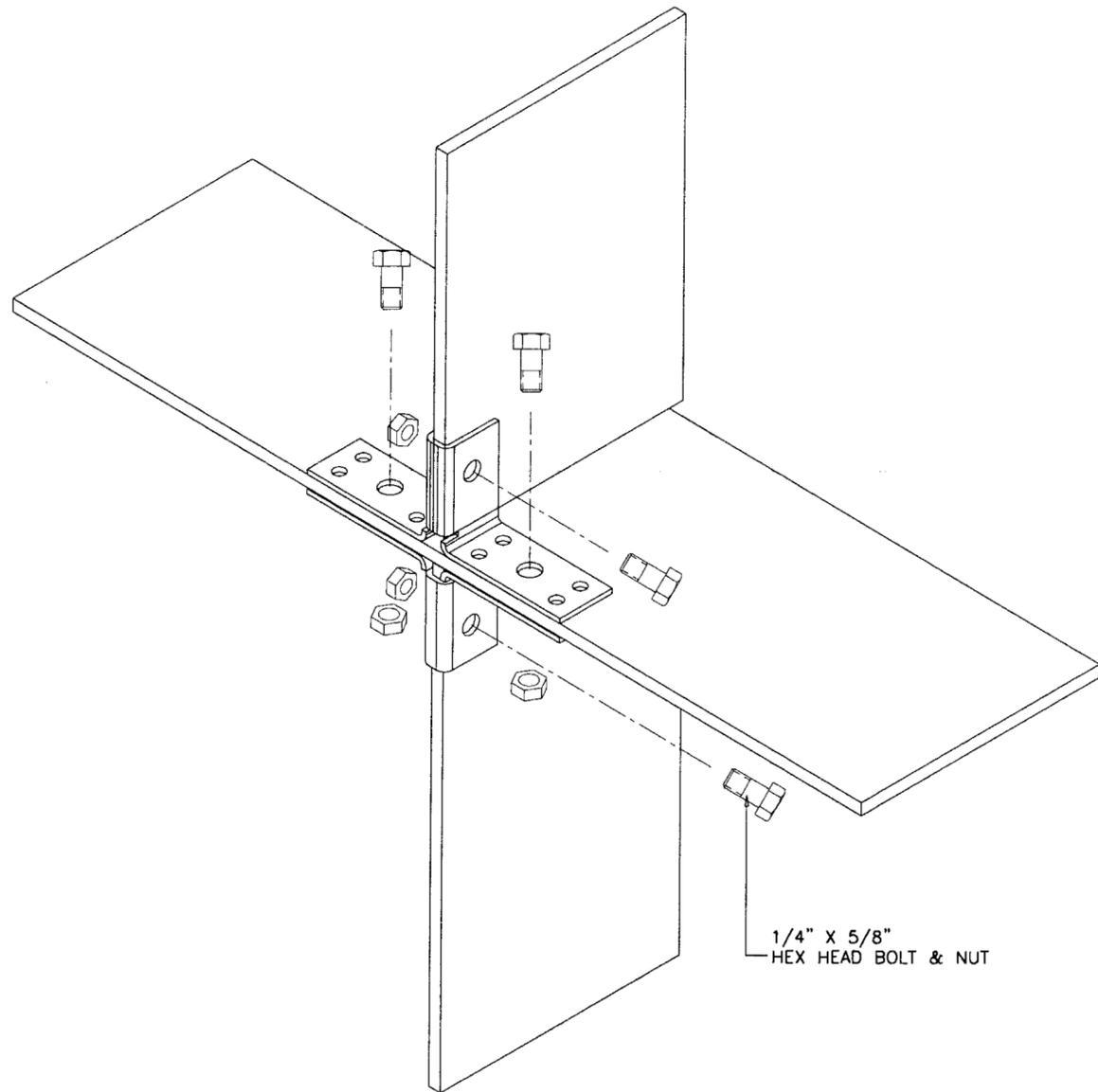
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Engr: JAVAD AHMAD
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dr. by: HAMID
chk. by:
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M07-03
sheet 10 of 11



1/4" X 5/8"
HEX HEAD BOLT & NUT

VERT. MULLION CONNECTION TO HORIZONTAL MULLION

Engr: JAVAD AHMAD
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FLA. PE # 70592
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J.A.

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dr. by: HAMID
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