



MIAMI-DADE
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Andersen Corporation
100 Fourth Ave. North
Bayport, MN 55003-1096

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

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

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

DESCRIPTION: Series "Permashield" Vinyl Clad Outswing Wood Casement Window

APPROVAL DOCUMENT: Drawing No. **W03-72** titled " 'Perma-Shield' Vinyl Clad WD. Casement WDW", sheets 1 through 5 of 5, dated 08/22/03 with revision "A" on 02/28/04, prepared by Al-Farooq Corporation, signed and sealed by Humayoun Farooq, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises** NOA # **03-0110.01** and consists of this page 1 and evidence pages E1 and E2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**

MB
 5/27/2004 

NOA No 04-0504.06
Expiration Date: June 22, 2008
Approval Date: June 10, 2004
 Page 1

Andersen Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W03-72** titled " 'Perma-Shield' Vinyl Clad WD. Casement WDW", sheets 1 through 5 of 5, dated 08/22/03 with revision "A" on 02/28/04, prepared by Al Farooq Corporation, signed and sealed by Humayoun Farooq, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of Model CXW16 single panel vinyl clad wood casement windows (3' x 6') marked-up by Architectural Testing Inc., Test Report No. **ATI-02-31165.01**, dated 01/28/99, signed and sealed by Allen N. Reeves, P.E.
"Submitted under NOA#03-0415.14"
2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of Model C15 single panel vinyl clad wood casement windows (2' x 6') marked-up by Architectural Testing Inc., Test Report No. **ATI-02-31166.01**, dated 01/28/99, signed and sealed by Allen N. Reeves, P. E.
"Submitted under NOA#03-0415.14"
3. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of Model C15 single panel vinyl clad wood casement windows marked-up by Architectural Testing Inc., Test Report No. **FLT-02-33003.01**, dated 02/08/01, signed and sealed by Allen N. Reeves, P. E.
"Submitted under NOA # 03-0110.01"



Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 04-0504.06
Expiration Date: June 22, 2008
Approval Date: June 10, 2004

Andersen Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of Model C15 single panel vinyl clad wood casement windows marked-up by Architectural Testing Inc., Test Report No. **ATI- 02-46995.01**, dated 11/26/03, signed and sealed by Joseph A. Reed, P. E.

C. CALCULATIONS

1. Anchor calculations, ASTM-E1300, and structural analysis, prepared by AL-Farooq Corporation, dated 09/26/03, signed and sealed by Humayoun Farooq, P.E. ***“Submitted under NOA # 03-0110.01”***
2. Anchor calculations and comparative analysis, Project #99-0620, dated June 23, 1999, with revision #1 dated May 18, 2000, prepared, signed and sealed by Richard Boyette, P.E. ***“Submitted under NOA-03-0415.14”***
3. Anchor calculations, ASTM-E1300, and structural analysis, prepared by AL-Farooq Corporation, dated 03/03/04, signed and sealed by Humayoun Farooq, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade County Building Code Compliance Office

E. MATERIAL CERTIFICATIONS

1. None

F. STATEMENTS

1. Statement letter of conformance, dated 09/26/03, signed and sealed by Humayoun Farooq, P.E. ***“Submitted under NOA # 03-0110.01”***
2. Statement letter of no financial interest, dated 09/26/03, signed and sealed by Humayoun Farooq, P.E. ***“Submitted under NOA # 03-0110.01”***
3. Statement letter of conformance, dated 03/03/04, signed and sealed by Humayoun Farooq, P.E.
4. Statement letter of no financial interest, dated 03/03/04, signed and sealed by Humayoun Farooq, P.E.



Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 04-0504.06
Expiration Date: June 22, 2008
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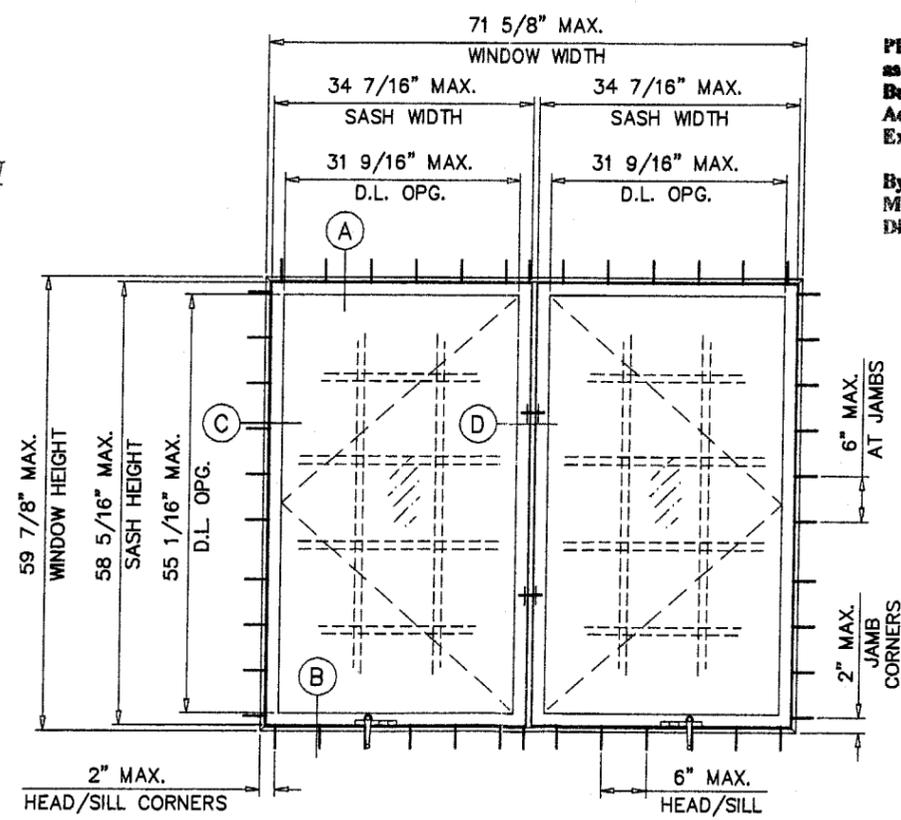
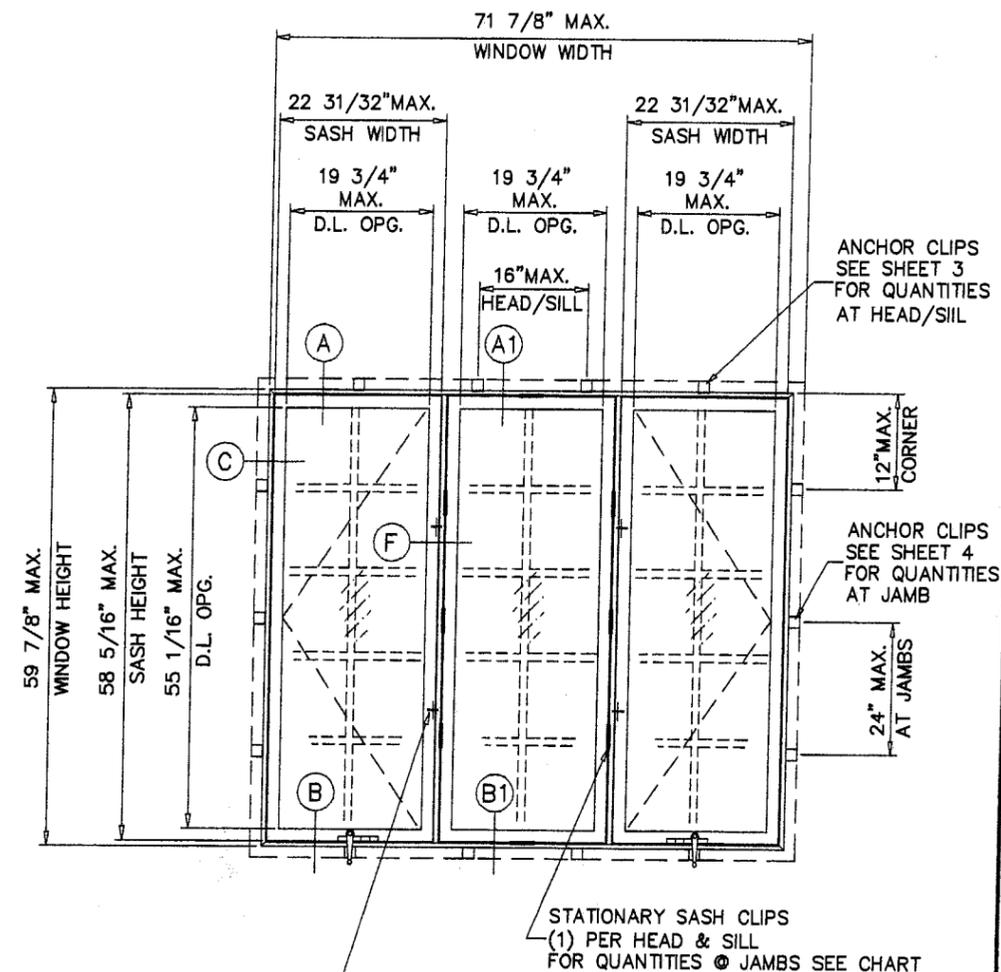
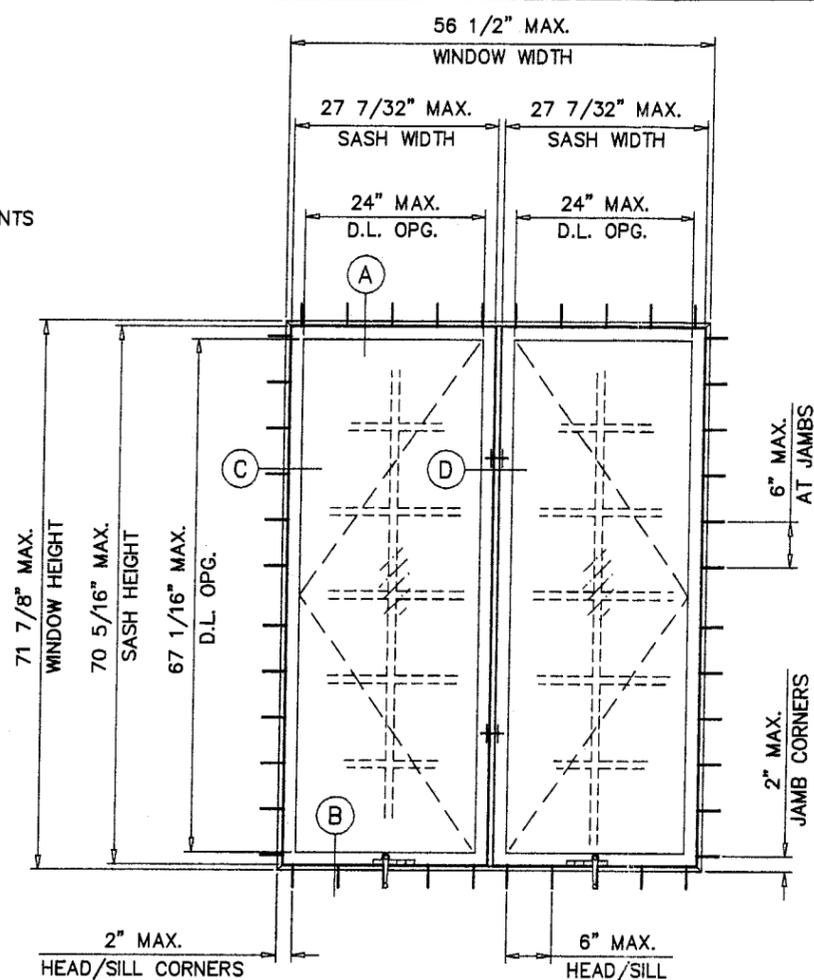
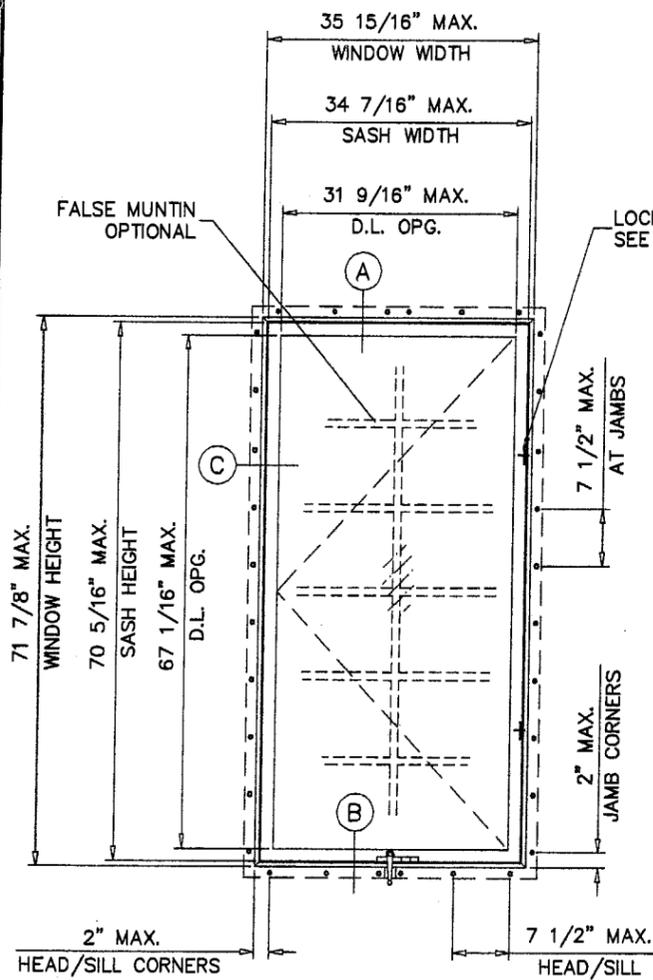
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER

1. Notice of Acceptance No. **03-0415.14** Andersen Corporation, Series "Permashield Vinyl Clad Outswing Wood Casement Window", approved on 05/15/03 and expiring on 6/22/08.
2. Notice of Acceptance No. **03-0110.01** Andersen Corporation, Series "Permashield Vinyl Clad Outswing Wood Casement Window", approved on 01/08/04 and expiring on 6/22/08.
3. Letter from the consultant stating that the product is in compliance with Florida Building Code (FBC).



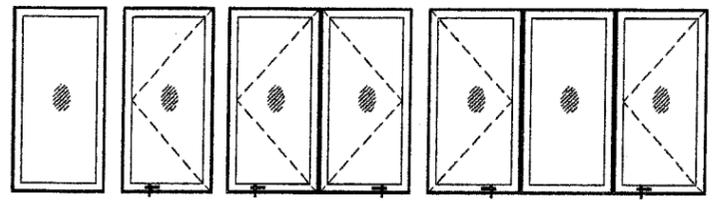
Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 04-0504.06
Expiration Date: June 22, 2008
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'PERMA-SHIELD' VINYL CLAD WOOD CASEMENT WINDOW

WINDOWS ARE NOT RATED FOR IMPACT. AND REQUIRE PROTECTION BY MIAMI-DADE COUNTY APPROVED IMPACT RESISTANT SHUTTERS.

APPROVAL APPLIES TO SINGLE, DOUBLE AND TRIPLE WINDOWS IN ANY COMBINATION OF VENTING OR STATIONARY UNITS.



THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE OF THE 2001 FLORIDA BUILDING CODE.

WOOD BUCKS BY OTHERS (MIN. 2X4 GRADE 2 SYP), MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR 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.

PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 04-0504.06
 Expiration Date 06/22/08

By: *Chandra Beaman*
 Miami Dade Product Control Division

WDW. HEIGHT UPTO	NO. OF KEEPERS AT SASH	NO. OF STAT. CLIPS AT STAT. JAMB
28-3/8"	1	1
40-13/16"	1	2
71-7/8"	2	3

WINDOWS CAN BE INSTALLED WITH ANY OF THE FOLLOWING OPTIONS

- OPTION 1: BY USING FASTENERS THRU INSTALLATION FLANGE AT 2" FROM CORNERS AND 7-1/2" O.C. MAX.
 - OPTION 2: BY USING FASTENERS THRU WINDOW FRAME INTO STRUCTURE AT 2" FROM CORNERS AND 6" O.C. MAX.
 - OPTION 3: BY USING FASTENERS THRU ANCHOR CLIPS AT 12" FROM CORNERS AND 24" O.C. MAX.
- SEE SHEETS 3 AND 4 FOR DETAILS.

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

MAR 30 2004

TYPICAL ELEVATIONS
 TESTED UNITS



AL-FAROOQ CORPORATION
 ENGINEERS, PLANNERS & PRODUCT DESIGN
 1235 SW 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8100 FAX. (305) 262-6978
 COMP-ANL\W03-72AC

ANDERSEN CORPORATION
 100 FOURTH AVE. NORTH
 BAYPORT, MN. 55003-1096
 TEL (800) 426-7881 FAX (-)



REVISIONS:

no	date	description
A	02.28.04	C/W SIZES ADDED

date: 08-22-03
 scale: 1/2"=1'-0"
 dr. by: HAMID
 chk. by:

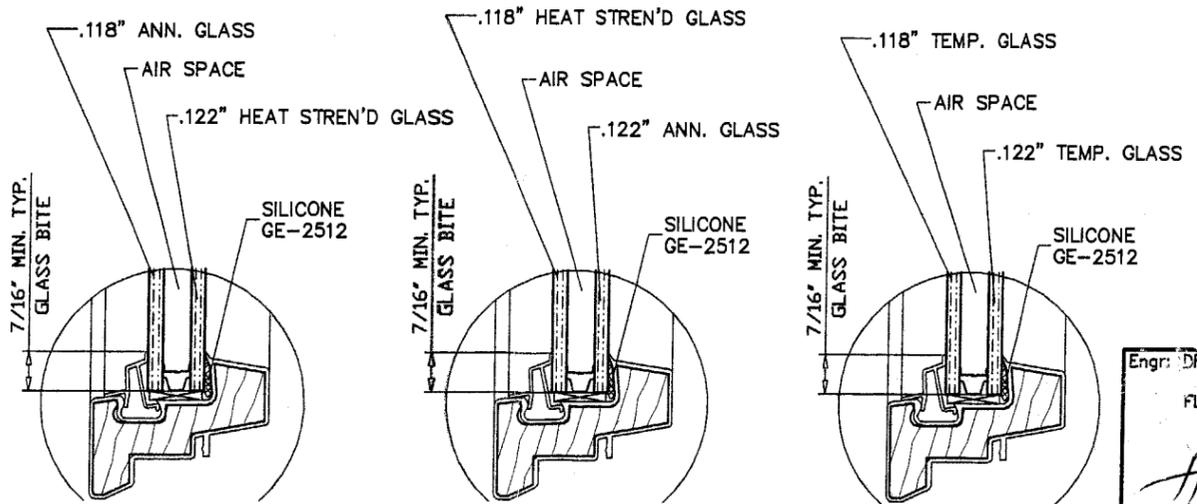
drawing no.
W03-72

sheet 1 of 5

DESIGN LOAD CAPACITY - PSF (SINGLE UNITS)						
VENTING (X), STATIONARY (O)						
WINDOW DESCRIPTION	UNIT WIDTH INCHES	UNIT HT. INCHES	GLASS TYPE 'A' & 'A1'		GLASS TYPE 'B'	
			EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
CR12	17"	24-1/8"	75.0	174.2	75.0	174.2
CN12	20-1/2"		75.0	144.4	75.0	144.4
C12	24-1/8"		75.0	122.7	75.0	122.7
CW12	28-3/8"		75.0	104.3	75.0	104.3
CR125	17"	28-3/8"	75.0	185.1	75.0	185.1
CN125	20-1/2"		75.0	153.5	75.0	153.5
C125	24-1/8"		75.0	130.4	75.0	130.4
CW125	28-3/8"		75.0	110.9	75.0	110.9
CR13	17"	35-15/16"	75.0	150.5	75.0	175.4
CN13	20-1/2"		75.0	117.2	75.0	145.4
C13	24-1/8"		75.0	104.4	75.0	123.6
CW13	28-3/8"		75.0	101.3	75.0	105.1
CXW13	35-15/16"		75.0	81.7	75.0	83.0
CR135	17"	40-13/16"	75.0	136.3	75.0	154.4
CN135	20-1/2"		75.0	99.2	75.0	128.1
C135	24-1/8"		75.0	90.4	75.0	108.8
CW135	28-3/8"		75.0	82.8	75.0	92.5
CXW135	35-15/16"		50.0	72.7	50.0	73.0
CR14	17"	48"	75.0	125.8	75.0	153.2
CN14	20-1/2"		75.0	87.3	75.0	127.0
C14	24-1/8"		70.6	70.6	70.6	107.9
CW14	28-3/8"		69.7	69.7	69.7	91.8
CXW14	35-15/16"		50.0	61.6	50.0	72.5
CR145	17"	52-13/16"	75.0	123.7	75.0	144.4
CN145	20-1/2"		75.0	80.5	75.0	119.7
C145	24-1/8"		63.5	63.5	63.5	101.7
CW145	28-3/8"		50.0	57.4	50.0	86.5
CXW145	35-15/16"		50.0	55.4	50.0	68.3
CR15	17"	59-7/8"	75.0	117.0	75.0	127.3
CN15	20-1/2"		72.4	72.4	75.0	105.6
C15	24-1/8"		55.1	55.1	74.9	89.7
CW15	28-3/8"		50.0	50.2	50.0	76.3
CXW15	35-15/16"		48.4	48.4	50.0	60.2
CR155	17"	64-13/16"	75.0	116.5	75.0	117.6
CN155	20-1/2"		68.0	72.2	68.0	97.5
C155	24-1/8"		50.0	51.8	50.0	82.9
CW155	28-3/8"		43.0	43.0	50.0	70.5
CXW155	35-15/16"		44.5	44.5	50.0	55.6
CR16	17"	71-7/8"	59.0	93.6	59.0	98.2
CN16	20-1/2"		50.0	70.4	50.0	82.2
C16	24-1/8"		47.9	47.9	50.0	70.8
CW16	28-3/8"		38.7	38.7	50.0	61.3
CXW16	35-15/16"		37.4	37.4	50.0	50.2

DESIGN LOAD CAPACITY - PSF (DOUBLE UNITS)						
XX, OX, XO OR OO						
WINDOW DESCRIPTION	UNIT WIDTH INCHES	UNIT HT. INCHES	GLASS TYPE 'A' & 'A1'		GLASS TYPE 'B'	
			EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
CR23	33-3/4"	35-15/16"	65.0	119.2	65.0	119.2
CN23	40-3/4"		65.0	114.0	65.0	114.0
C23	48"		65.0	104.2	65.0	108.6
CW23	56-1/2"		65.0	100.0	65.0	100.0
CXW23	71-5/8"		68.9	68.9	68.9	68.9
CR235	33-3/4"	40-13/16"	65.0	107.4	65.0	107.4
CN235	40-3/4"		65.0	98.5	65.0	103.1
C235	48"		65.0	90.0	65.0	98.6
CW235	56-1/2"		50.0	82.8	50.0	88.1
CXW235	71-5/8"		59.2	59.2	59.2	59.2
CR24	33-3/4"	48"	65.0	93.7	65.0	93.7
CN24	40-3/4"		65.0	86.6	65.0	90.4
C24	48"		65.0	70.2	65.0	86.8
CW24	56-1/2"		50.0	69.7	50.0	74.9
CXW24	71-5/8"		51.6	51.6	51.6	51.6
CR245	33-3/4"	52-13/16"	65.0	86.4	65.0	86.4
CN245	40-3/4"		55.1	77.6	55.1	83.5
C245	48"		50.0	63.2	50.0	80.1
CW245	56-1/2"		50.0	57.4	50.0	68.0
CXW245	71-5/8"		47.0	47.0	47.0	47.0
CR25	33-3/4"	59-7/8"	50.0	77.4	50.0	77.4
CN25	40-3/4"		50.0	71.5	50.0	75.1
C25	48"		50.0	54.7	50.0	70.6
CW25	56-1/2"		50.0	50.2	50.0	60.0
CXW25	71-5/8"		41.0	41.0	41.0	41.0
CR255	33-3/4"	64-13/16"	50.0	72.2	50.0	72.2
CN255	40-3/4"		50.0	70.1	50.0	70.1
C255	48"		50.0	51.5	50.0	65.3
CW255	56-1/2"		42.8	42.8	50.0	55.4
CR26	33-3/4"	71-7/8"	50.0	65.9	50.0	65.9
CN26	40-3/4"		50.0	64.1	50.0	64.1
C26	48"		47.5	47.5	50.0	57.8
CW26	56-1/2"		38.5	38.5	50.0	50.0

DESIGN LOAD CAPACITY - PSF (TRIPLE UNITS)						
XOX, OOX, XOO, OOO OR XXX						
WINDOW DESCRIPTION	UNIT WIDTH INCHES	UNIT HT. INCHES	GLASS TYPE 'A' & 'A1'		GLASS TYPE 'B'	
			EXT. (+)	INT. (-)	EXT. (+)	INT. (-)
C33	71-7/8"	35-15/16"	45.0	75.1	45.0	75.1
C335	71-7/8"	40-13/16"	45.0	66.2	45.0	66.2
C34	71-7/8"	48"	45.0	56.2	45.0	56.2
C345	71-7/8"	52-13/16"	45.0	51.1	45.0	51.1
C35	71-7/8"	59-7/8"	45.0	45.1	45.0	45.1



EXTERIOR

GLASS TYPE 'A' GLASS TYPE 'A1' GLASS TYPE 'B'

GLAZING OPTIONS

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 04-0504.06
 Expiration Date 06/22/08
 By *Arman Hamid*
 Miami Date Product Control
 Division

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

MAR 30 2004

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PERMA-SHIELD VINYL CLAD WD. CASEMENT WDW.
 AW

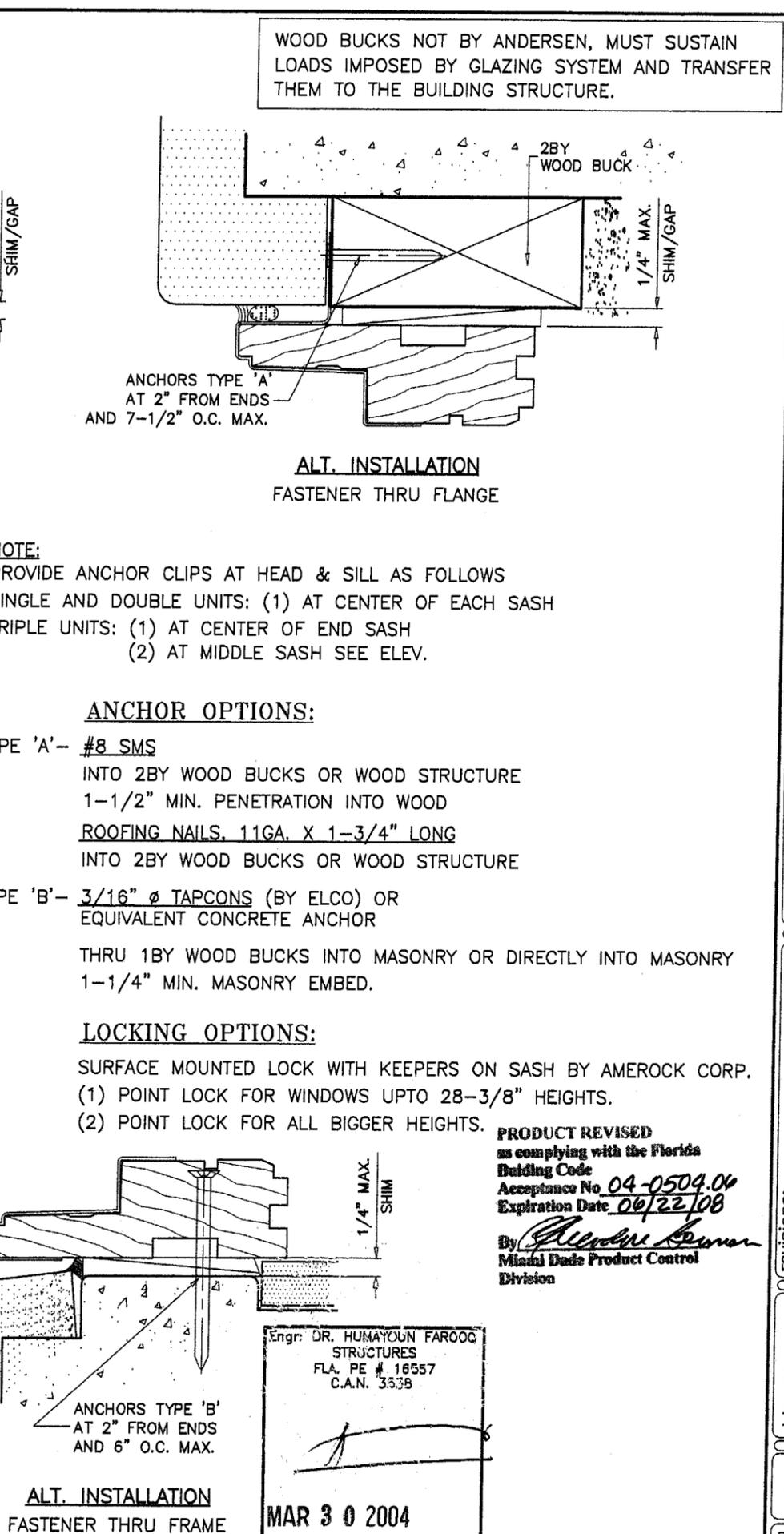
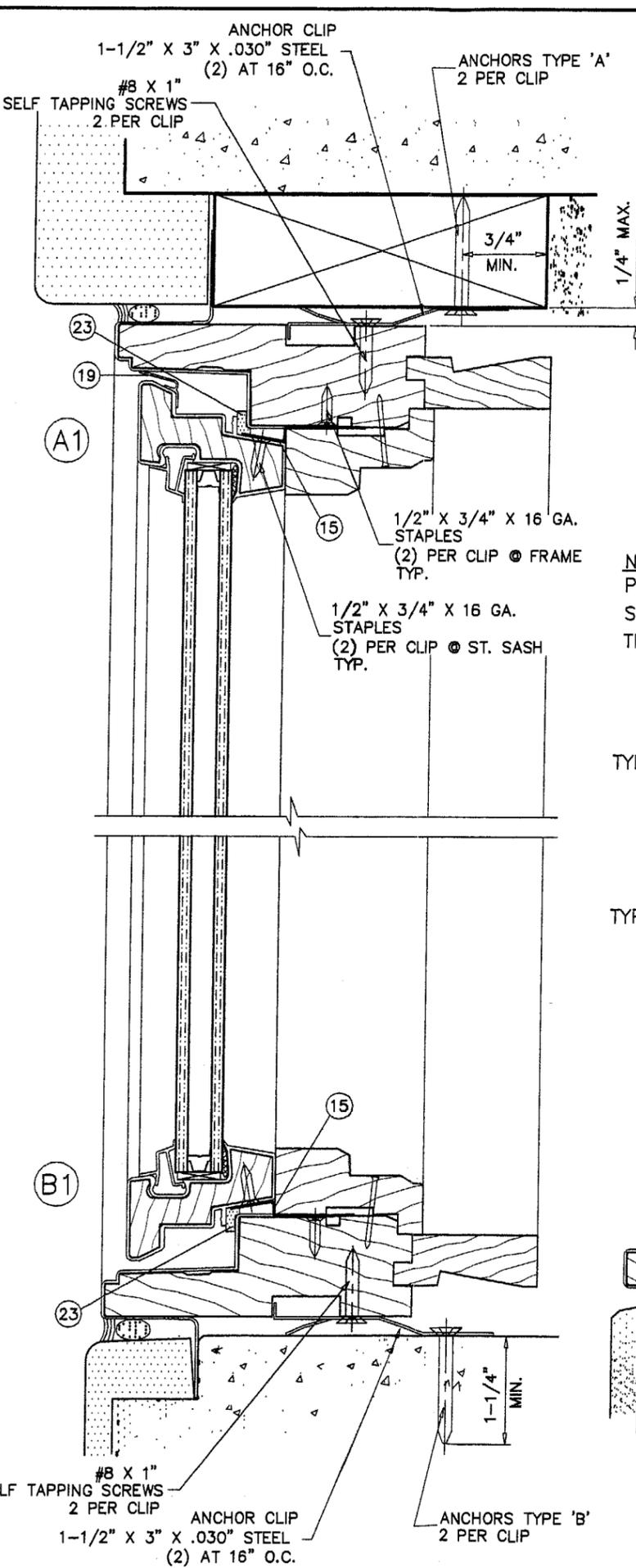
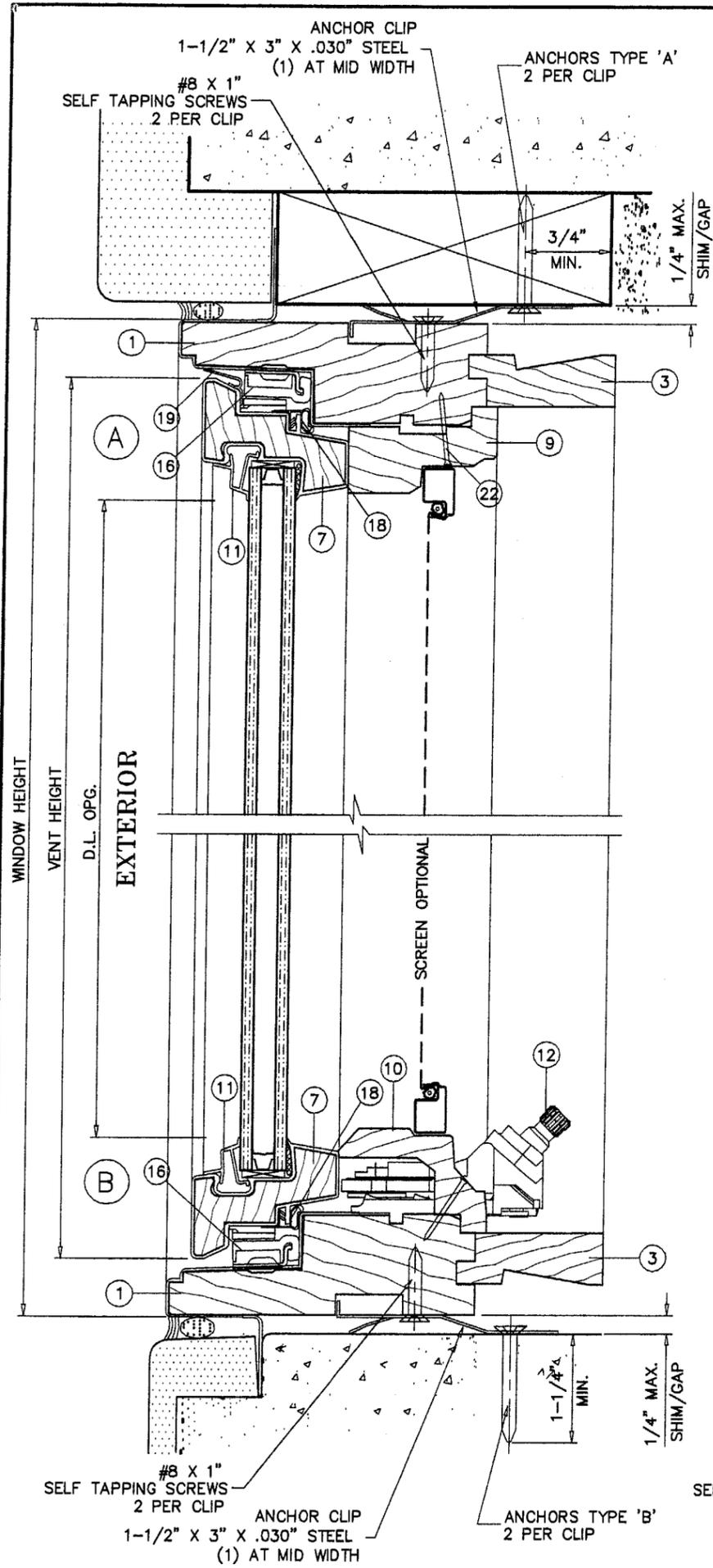
no.	date	description
A	02.28.04	CXW SIZES ADDED

revisions:

date: 08-22-03
 scale: 1/2" = 1"
 dr. by: HAMID
 chk. by:

drawing no.
W03-72

sheet 2 of 5



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PERMA-SHIELD VINYL CLAD WD. CASEMENT WDW.

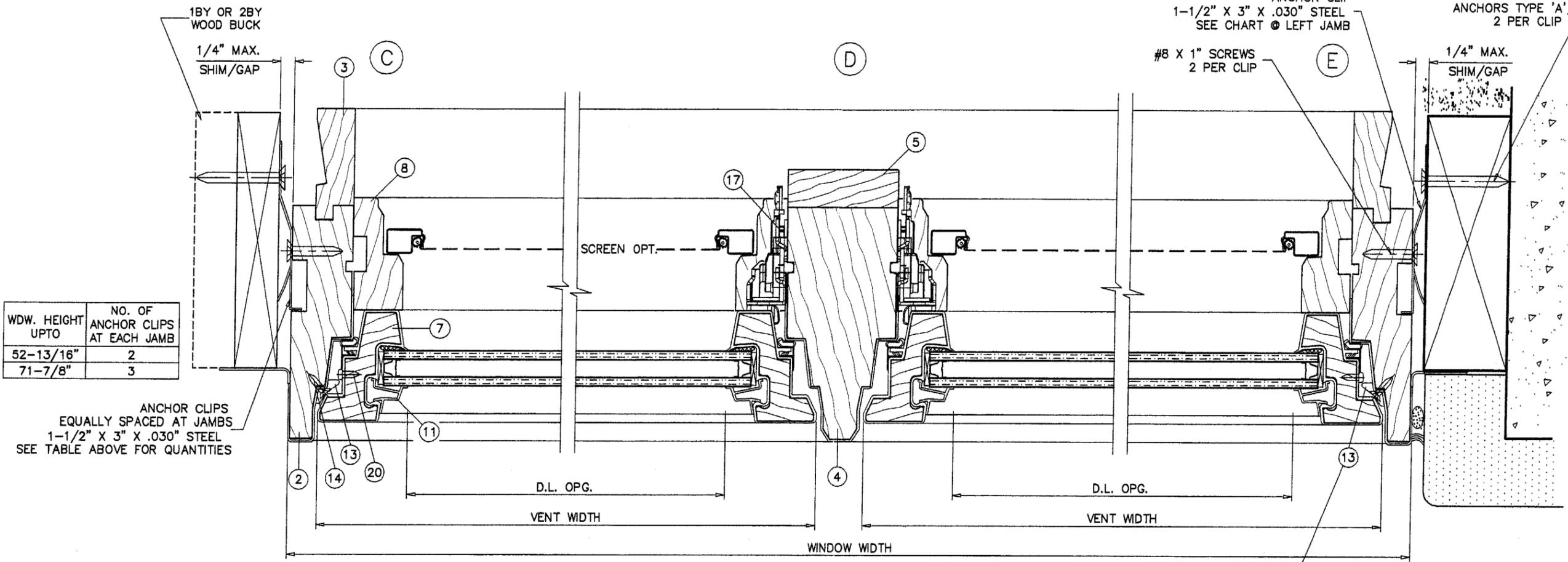
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revisions:

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dr. by: HAMID
chk. by:

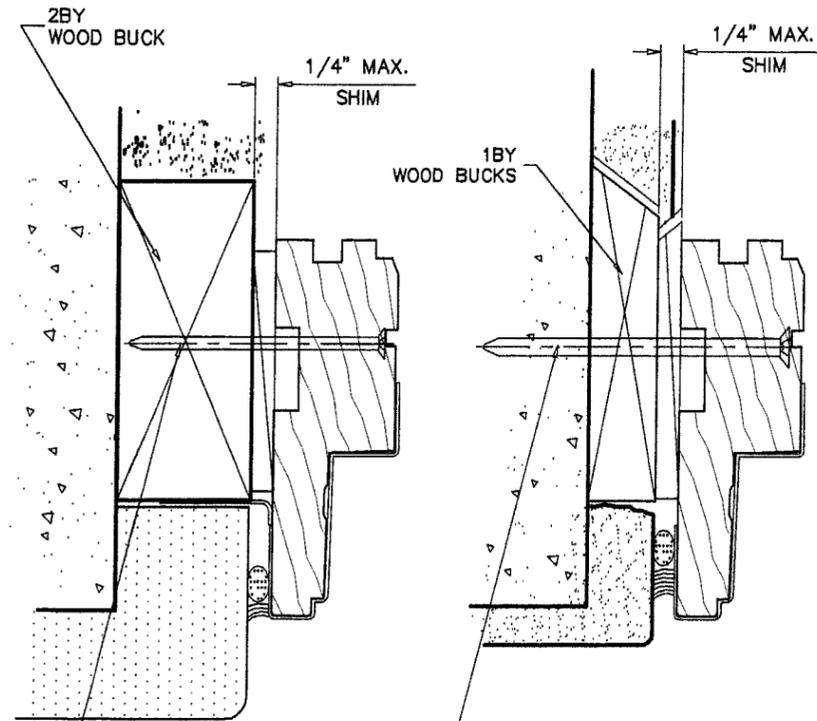
drawing no.
W03-72

sheet 3 of 5



WDW. HEIGHT UPTO	NO. OF ANCHOR CLIPS AT EACH JAMB
52-13/16"	2
71-7/8"	3

ANCHOR CLIPS EQUALLY SPACED AT JAMBS
1-1/2" X 3" X .030" STEEL
SEE TABLE ABOVE FOR QUANTITIES

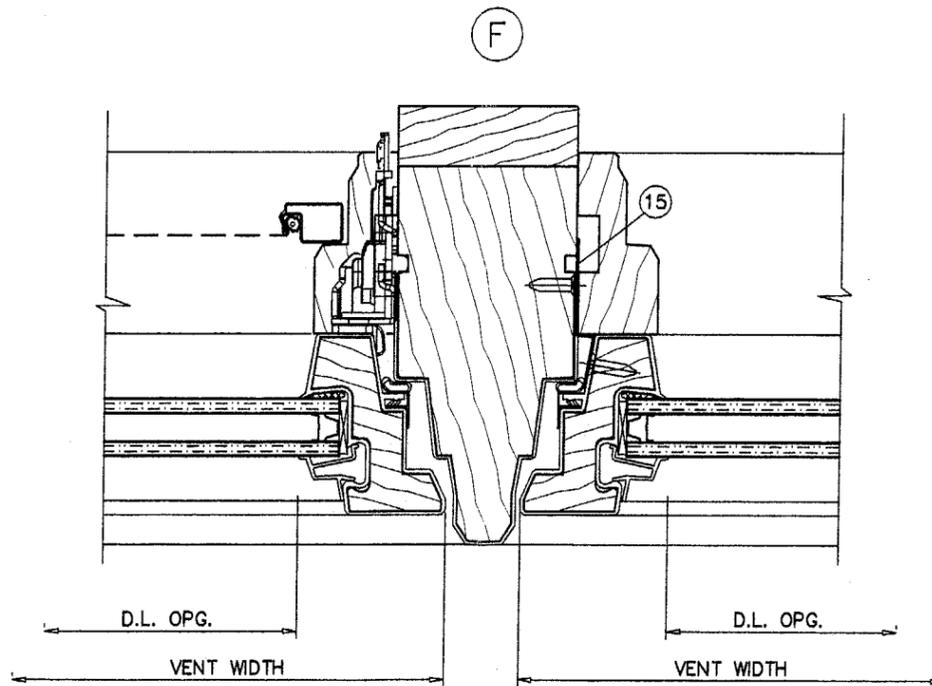


ANCHORS TYPE 'A' AT 2" FROM ENDS AND 6" O.C. MAX.

ALT. INSTALLATION
FASTENER THRU FRAME

ANCHORS TYPE 'B' AT 2" FROM ENDS AND 6" O.C. MAX.

ALT. INSTALLATION
FASTENER THRU FRAME



SASH SIZES	NO. OF SNUGGER BRACKETS AT HINGE JAMB
SIZES UPTO 23" X 51-1/4"	1 AT MIDSPAN
ALL OTHER SIZES	2 AT 20" FROM TOP & BOTTOM

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 04-0504.06
Expiration Date 06/22/08
By *Alvin Berna*
Miami Dade Product Control Division

Engr: DR. HUMAYOUN FAROOQ
STRUCTURES
FLA. PE # 18557
C.A.N. 3538

MAR 30 2004

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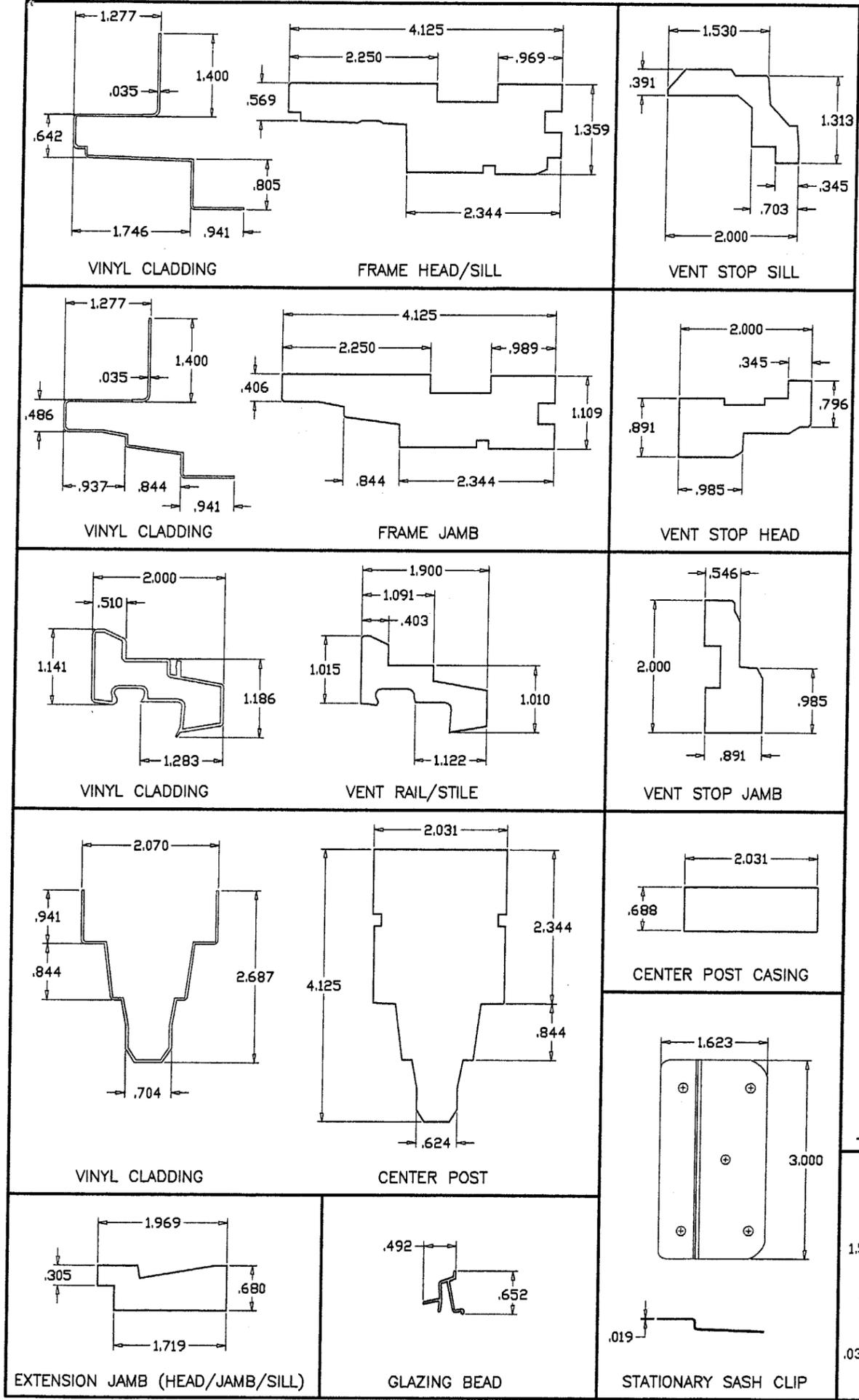
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ANDERSEN CORPORATION
100 FOURTH AVE. NORTH
BAYPORT, MN. 55003-1096
TEL (800) 426-7691 FAX (-)

revisions:

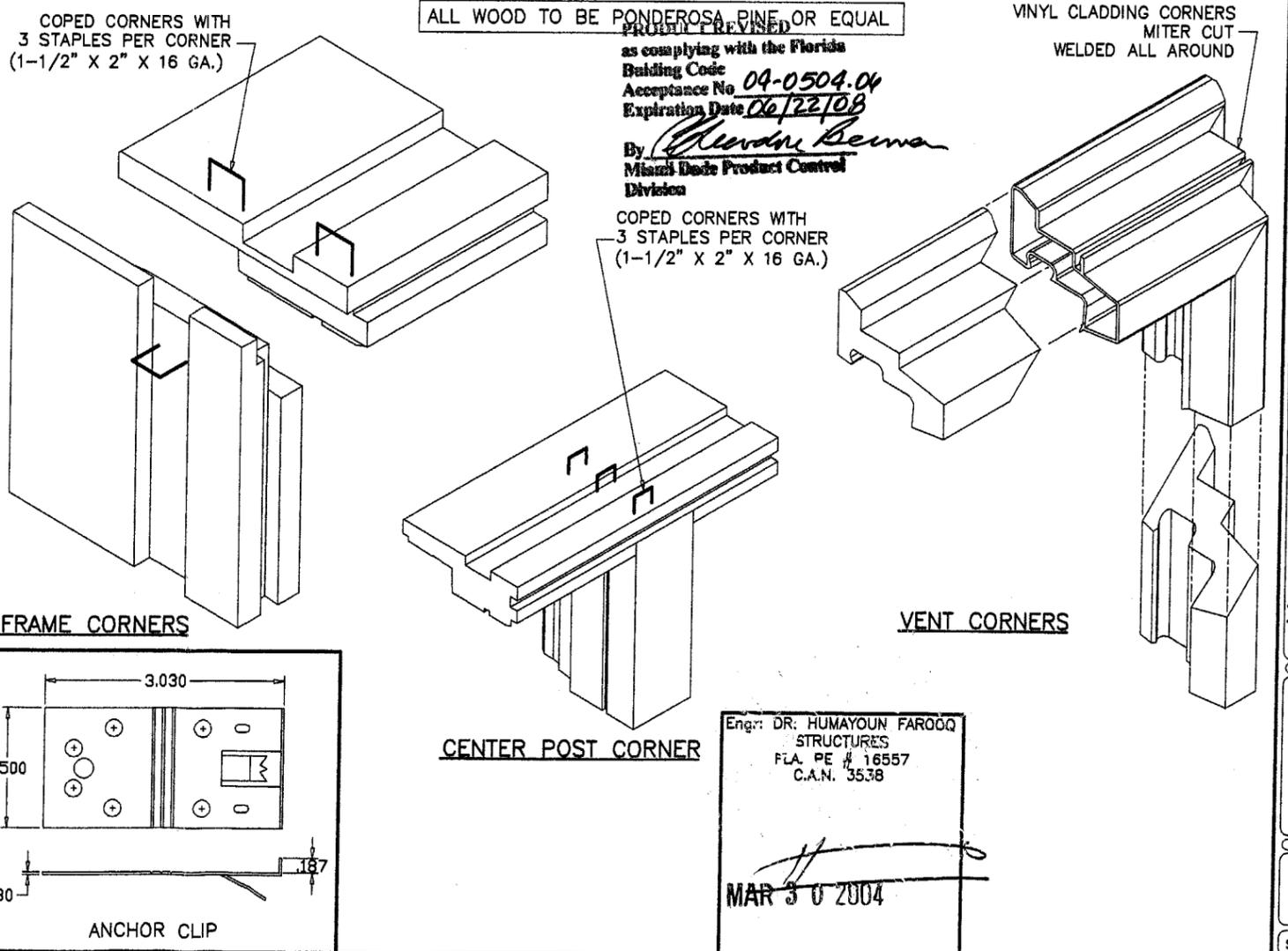
no	date	description
A	02.28.04	NO CHANGE THIS SHEET

date: 08-22-03
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W03-72
sheet 4 of 5



ITEM #	NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	30835	AS REQD.	FRAME HEAD/SILL	WOOD	ANDERSEN
2	30838	AS REQD.	FRAME JAMB	WOOD	ANDERSEN
3	-	OPTIONAL	EXTENSION JAMBS	WOOD	ANDERSEN
4	30839	1	POST MULLION	WOOD	ANDERSEN
5	30056	1	CASING MULLION	-	-
6	-	-	-	-	-
7	30013	4/ SASH	SASH RAIL/STILE	WOOD	ANDERSEN
8	-	2/ WDW.	VENT STOP JAMB	WOOD	ANDERSEN
9	30846/48	1/ WDW.	VENT STOP HEAD	WOOD	ANDERSEN
10	30843/45	1/ WDW.	VENT STOP SILL	WOOD	ANDERSEN
11	30184	AS REQD.	GLAZING BEAD	PVC	-
12	30810/12	1/ SASH	ROTO OPERATOR	STEEL	AMEROCK CORP.
13	30241	AS REQD.	SNUGGER BRACKET	POLYCARBONATE	SEE SHEET 4 FOR QUANTITIES
14	#8 X 1/2"	AS REQD.	SNUGGER SCREWS	-	-
15	30053	-	STATIONARY SASH CLIP	GALV. STEEL	-
16	1361409	2/ SASH	HINGE ASEMBLY AT TOP & BOTTOM OF SASH	STEEL	AMEROCK CORP.
17	-	AS REQD.	LOCK W/ KEEPERS ON SASH	STEEL	AMEROCK CORP.
18	30213	AS REQD.	WEATHERSTRIP STILE	-	-
19	30021	AS REQD.	WATERBAR WEATHERSTRIP	-	-
20	30240	AS REQD.	SNUGGER PIN	-	-
21	-	-	-	-	-
22	-	AS REQD.	BRAD NAILS 1-1/2" LONG	GALV. STEEL	-
23	30172	-	FOAM WEATHERSTRIPPING	-	-



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

MAR 30 2004

afc

AL-FAROOQ CORPORATION
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PERMA-SHIELD VINYL CLAD WD. CASEMENT WDW.

no	date	description
A	02.28.04	NO CHANGE THIS SHEET

revisions:

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sheet 5 of 5