



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

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Consolidated Woodwork Manufacturing, Inc. of DE.
P.O. Box 134, 933 Blackroak Road
Gladwayne ,PA 19035

Your application for Notice of Acceptance (NOA) of:

"Defiance II " Series Outswing Mahogany Wood Casement (XX) Windows-Impact

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Raul Rodriguez
Chief Product Control Division

ACCEPTANCE NO.: 01-0102.06
EXPIRES: 08/02/2006

THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 08/02/2001

Consolidated Woodworking Manufacturing Inc.

ACCEPTANCE No.: 01-0102.06

APPROVED : August 02, 2001

EXPIRES : August 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

- 1.1 This approves an outswing mahogany wood casement window, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

- 2.1 The "Defiance II" series **Outswing Mahogany Wood Casement Window (XX)-Large Missile Impact Resistant** and its components shall be constructed in strict compliance with the following documents: Drawing No **204-00CW**, titled "Defiance II Mahogany Outswing Casement Windows" Sheets 1 through 5 of 5, dated 12-21-2000, 05-31-01 and last revised on 07-03-2001, prepared by EngCo Inc, signed and sealed by Pedro D. Figueiredo, P. E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

- 3.1 This approval applies to single unit applications of outswing casement windows with the configurations, shown in the approved drawings.

4. INSTALLATION

- 4.1 The wood casement windows and its components shall be installed in strict compliance with the approved drawings.
- 4.2 Hurricane protection system (shutters): the installation of this unit **will not require** a hurricane protection system.

5. LABELING

- 5.1 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".

6. BUILDING PERMIT REQUIREMENTS

- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance
- 6.1.2 If applicable, the Notice of Acceptance of "Fixed Window" by CWM Inc.
- 6.1.3 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
- 6.1.4 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Ishaq I. Chanda
Ishaq I. Chanda, P.E. Product Control Examiner
Product Control Division

Consolidated Woodworking Manufacturing Inc.

ACCEPTANCE No.: 01-0102.06

APPROVED : August 02, 2001

EXPIRES : August 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process.
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purpose.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

Ishaq I. Chanda
Ishaq I. Chanda, P. E., Product Control Examiner
Product Control Division

END OF THIS ACCEPTANCE

Consolidated Woodworking Manufacturing Inc.

ACCEPTANCE No.: 01-0102.06

APPROVED : August 02, 2001

EXPIRES : August 02, 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's parts and section drawings.
2. Drawing No **204-00CW**, titled "Defiance II Mahogany Outswing Casement Windows" Sheets 1 through 5 of 5, dated 12-21-2000, 05-31-01 and last revised on 07-03-2001, prepared by EngCo Inc. , signed and sealed by Pedro D. Figueiredo, P. E.

B. TESTS

1. Test reports on
 - 1) Air Infiltration Test, per PA 202-94
 - 2) Uniform Load Static Air Pressure Test, per PA 202-94
 - 3) Water Resistance Test, per PA 202-94
 - 4) Forced Entry Resistance Test, per SFBC3603.2 (b) 5.along with installation diagram of outswing-casement window OX, marked-up by by Hurricane Testing Laboratory, Inc., Test Report No. **0181-0530-00 (HTL-00033) specimen #1**, dated 05/24/00, signed and sealed by Vinu Abraham, P. E.
2. Test reports on
 - 1) Large Missile Impact Test, SFBC PA 201-94
 - 2) Cyclic Loading Test, per SFBC PA 203-94along with installation diagram of outswing-casement window OX, marked-up by Hurricane Testing Laboratory, Inc., Test Report No. **0181-0530-00 (HTL-00033) specimen #1,2 & 3** dated 06/08/00 thru 06/13/00, signed and sealed by Vinu Abraham, P. E.
3. additional Test reports on
 - 1) Large Missile Impact Test, SFBC PA 201-94
 - 2) Cyclic Loading Test, per SFBC PA 203-94along with installation diagram of outswing wood door w/ transom marked-up by Hurricane Testing Laboratory, Inc., Test Report No. **0181-0601-00 (HTL-00033) specimen #1, 2 & 3**, dated 06/02/00, signed and sealed by Vinu Abraham, P. E.
4. additional Test reports on
 - 1) Air Infiltration Test, per PA 202-94
 - 2) Uniform Load Static Air Pressure Test, per PA 202-94
 - 3) Water Resistance Test, per PA 202-94
 - 4) Forced Entry Resistance Test, per SFBC3603.2 (b) 5.along with installation diagram of an outswing-wood door marked-up by by Hurricane Testing Laboratory, Inc., Test Report No. **0181-0601-00 (HTL-00033) specimen #1**, dated 06/19/00 thru 06/26/00, signed and sealed by Vinu Abraham, P. E.

C. CALCULATIONS

1. Anchor verification calculations and structural performance, prepared by Engco Inc, dated 12-21-00, signed and sealed by Pedro D. Figueiredo, P.E.

Ishaq I. Chanda
Ishaq I. Chanda, P.E. Product Control Examiner
Product Control Division

Consolidated Woodworking Manufacturing Inc.

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(For File ONLY. Not part of NOA)

D. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **00-0329.03** , for "SAF-GLAS" issued to Security Impact Glass Holding, expiring 12-16-2001.

E. STATEMENTS

1. Statement letter of conformance and " No financial interest" , dated Novemberr 21, 2000, signed by Pedro D. Figueiredo, P.E.
2. Statement Lab compliance dated October 04, 2000, issued by Hurricane Testing Lab, signed and sealed by Vinu Abraham, P. E.

F. OTHER

1. Glazing compliance per Astm 1300-98.
2. United Windows and doors of Costa Rica" ownership letter dated May 01, 2001, issued by Consolidated Woodworking Manufacturer Inc (C.W.M.), signed by M. Mullock (president).

Ishaq I. Chanda
Ishaq I. Chanda, P.E. Product Control Examiner
Product Control Division

DEFIANCE II MAHOGANY OUTSWING CASEMENT WINDOW – IMPACT

DESIGNED PRESSURE RATING
EXTERIOR: Pd= +65 PSF
INTERIOR: Pd= -65 PSF

INDEX DRAWING 204-00CW:

SHEET 1 of 5 – COVER SHEET, GENERAL NOTES

SHEET 2 of 5 – WINDOW CONFIGURATIONS, HARDWARE SCHEDULE, FRAMING ANCHORAGE

SHEET 3 of 5 – WINDOW SECTION DETAILS

SHEET 4 of 5 – BASIC WINDOW COMPONENTS, GLAZING SPECIFICATIONS

SHEET 5 of 5 – FRAME / SASH CONSTRUCTION

GENERAL NOTES:

1- CODE: This product has been tested and designed in accordance with the South Florida Building Code Dade County Edition.

2- DEFINITION: This product is a mahogany wood casement type window with 7/16" large missile impact resistant laminated glass.

3- POSTING: A permanent legible decal shall be placed at readily visible location reading the following:

" DEFIANCE II MAHOGANY OUTSWING CASEMENT WINDOW – IMPACT
CONSOLIDATED WOODWORK MANUFACTURING, INC
GLADWYNE – PENNSYLVANIA
DADE COUNTY PRODUCT CONTROL APPROVED"

4- LOADS, INSTALLATION AND MANUFACTURING of this product MUST comply with ALL applicable sections of the South Florida Building Code.

5- MATERIAL: All wood material to be fabricated from Kiln dried Mahogany and Glazing with 7/16" "SAF-GLAS" polycarbonate laminate glass.

6- FASTENERS: Assembly screws and anchors shall be as specified at current set of drawings. Installation and loads as per approved NOA.

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE August 03, 2001
BY Isaac V. Chandra
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0102-06

Manufacturer:
C.W.M.

PO Box 134 – GLADWYNE
PENNSYLVANIA, 19035
Tel.: (610) 896-3607
WWW.WOODWINDOWS.COM

Product:
Defiance II
Mahogany
Outswing
Casement
Window

Engineering:
EngCo Inc.

CA 8116
6971 W. Sunrise Blvd. #104
Plantation, FL 33313
Tel.: (954) 585-0304



JUL 02 2001

Engineer Seal
Pedro De Figueiredo
PE 52609

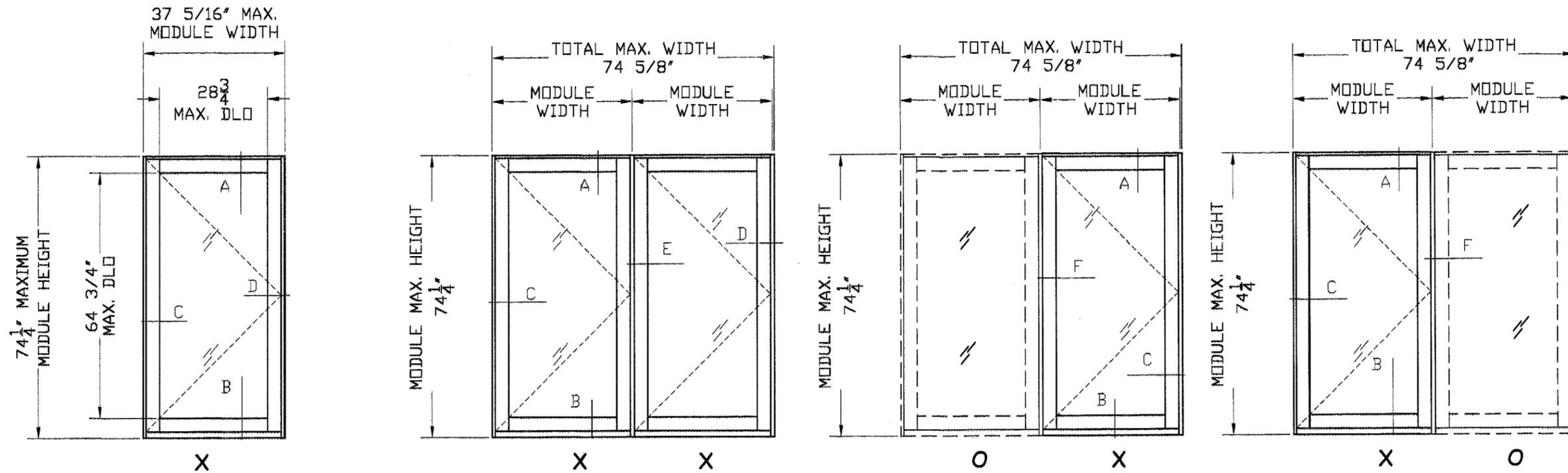
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Design by: PPMF

Revision:
Original 11/6/00
#1- 5/31/01

Drawing Number
204-00CW

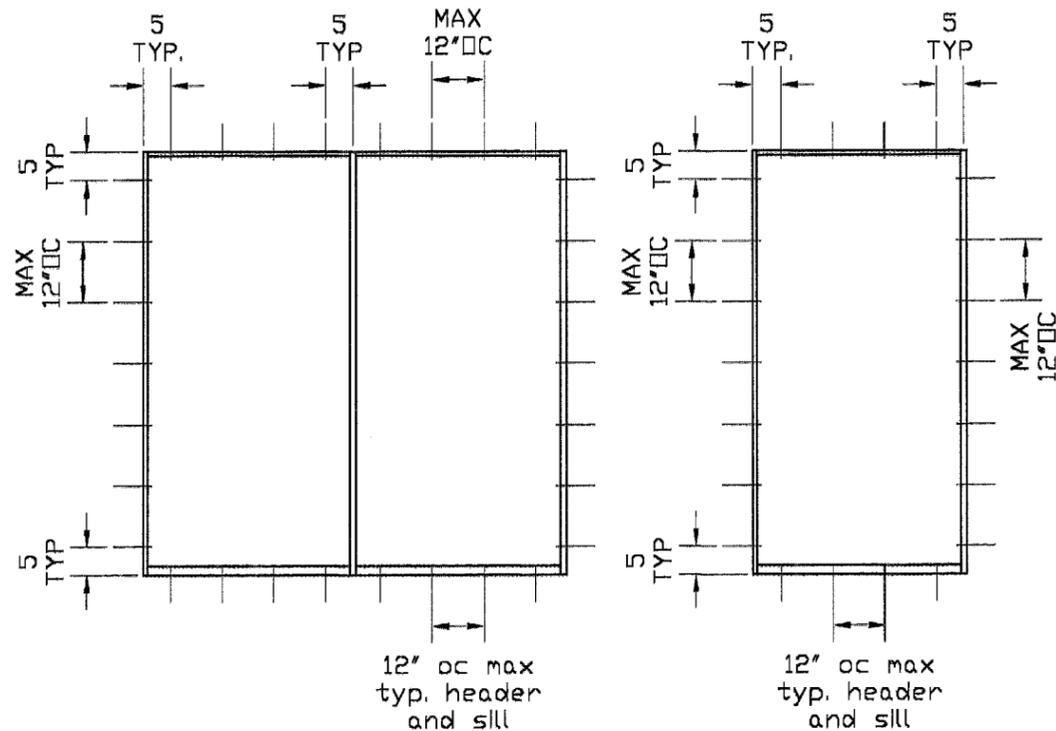
Sheet
1 of 5

WINDOW CONFIGURATIONS



NOTE: FIXED WINDOW MANUFACTURED
BY CWM HOLDING CURRENT NOA

FRAMING ANCHORAGE



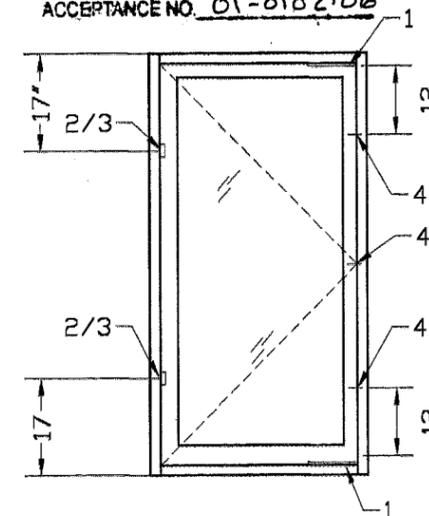
ANCHORAGE NOTES:

BLOCK: 1/4" TAPCONS WITH 1 1/4" MIN. EMBEDMENT.
 CONCRETE: 1/4" TAPCONS WITH 1 1/2" MIN. EMBEDMENT.
 WOOD: #14 SS WOOD SCREWS INTO 2X (SG=, 55) WOOD FRAMING.

HARDWARE SCHEDULE

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE: August 02, 2001
 BY: Ishag I. Zlianda
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0102.06

#	DESCRIPTION
1	(2) 851-064-8046, BRONZE CRAFT 300 SERIES (STERLING) 16" LOOSE RIVET SCISSOR HINGE ASSEMBLY. EACH HINGE IS SECURE TO THE WINDOW FRAMING BY (3) #12x2 1/2"-in FHSS SMS. EACH HINGE IS SECURE TO THE SASH BY (3) #12x2 1/2"-in FHSS SMS.
2	(2) BRONZE CRAFT #202-034 BRASS KEEPER. EACH KEEPER IS SECURE TO THE SASH USING (2) #8x1 1/2"-in fh BRASS WOOD SCREWS.
3	(2) BRONZE CRAFT #144-048 BRASS CAM LOCK. EACH CAM LOCK IS SECURE TO THE FRAME MEMBER USING (2) #8x1 1/2"-in fh BRASS WOOD SCREWS.
4	(3) 1/4-20 X 2" SNUBBER PINS



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JUL 03 2001

Engineer Seal
 Pedro De Figueiredo
 PE 52609

Date: 05/31/01
 Scale: 1:32
 Design by: PPMF

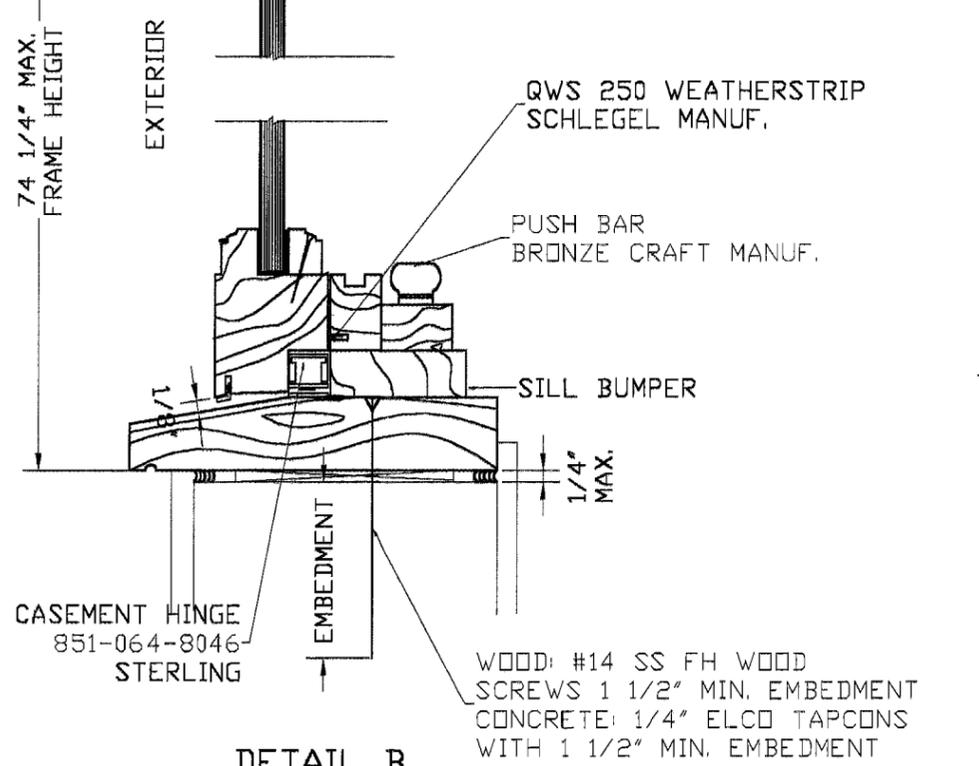
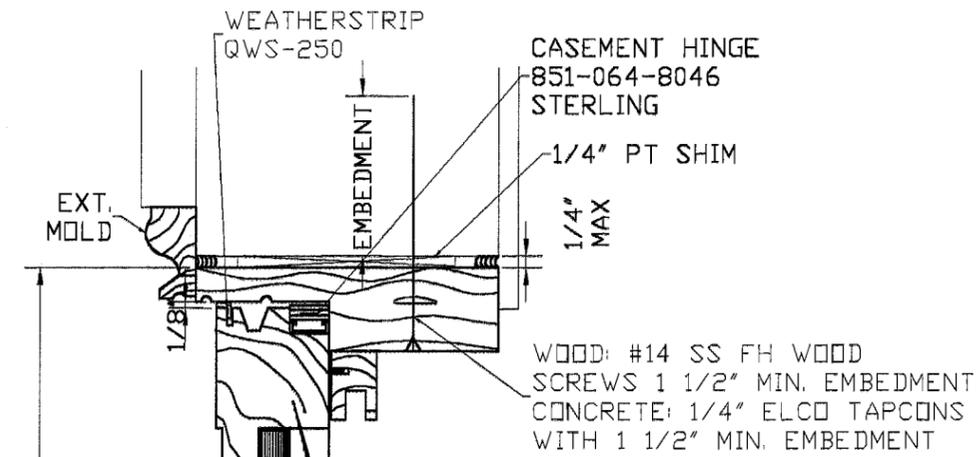
Revision:
 Original 11/6/00
 #1- 5/31/01

Drawing Number
204-00CW

Sheet
 2 of 5

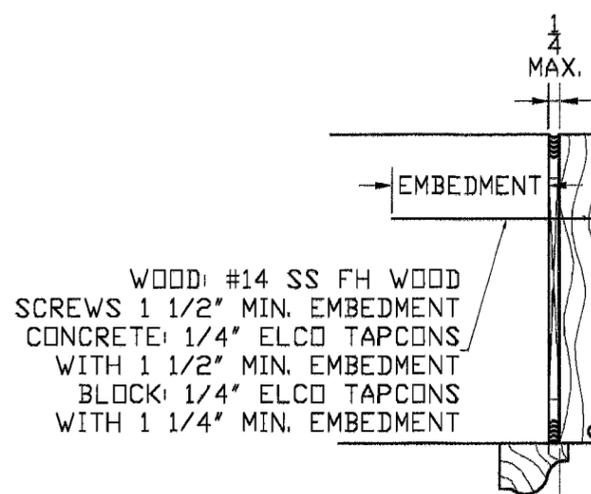
WINDOW SECTION DETAILS

**DETAIL A
HEADER**

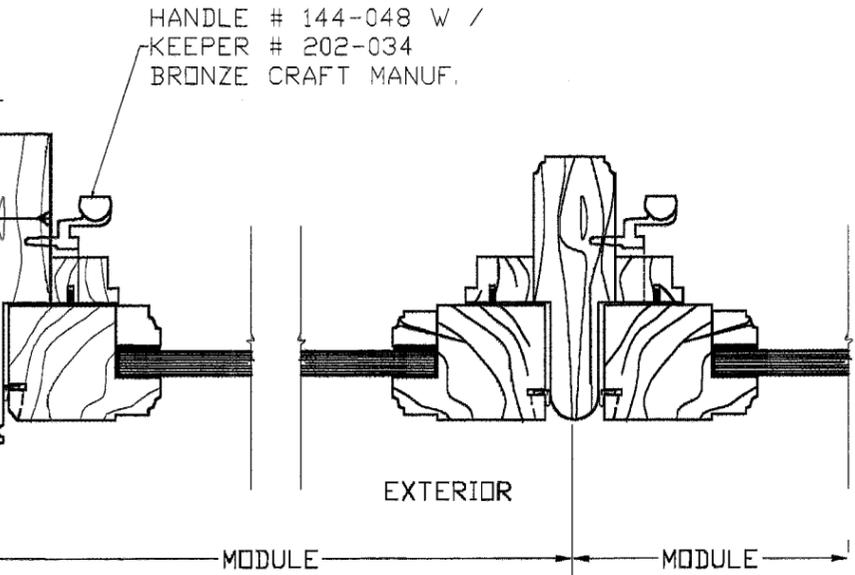


**DETAIL B
SILL**

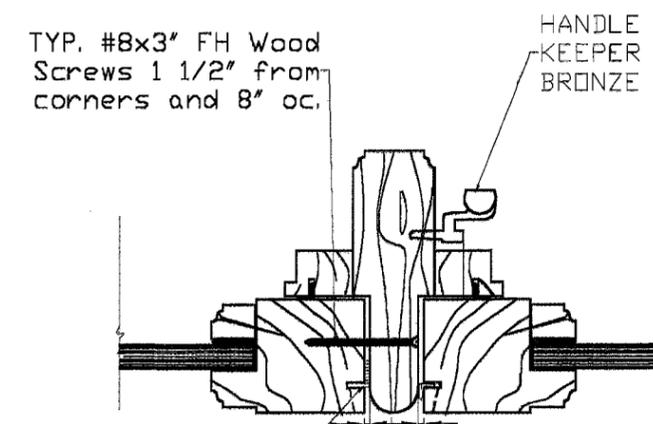
**DETAIL C
LOCK STYLE
JAMB CASEMENT**



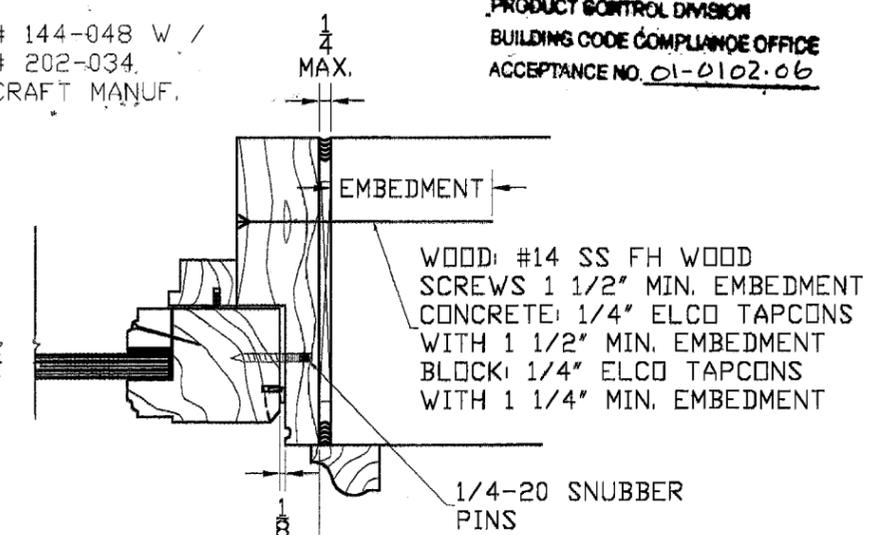
**DETAIL E
INTERMEDIATE MEMBER
CASEMENT AND CASEMENT**



**DETAIL F
INTERMEDIATE MEMBER
FIXED AND CASEMENT**



**DETAIL D
CASEMENT HINGE STYLE
JAMB CASEMENT**



APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: AUGUST 02, 2001
BY: Isaac J. Chaudh
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0102.06

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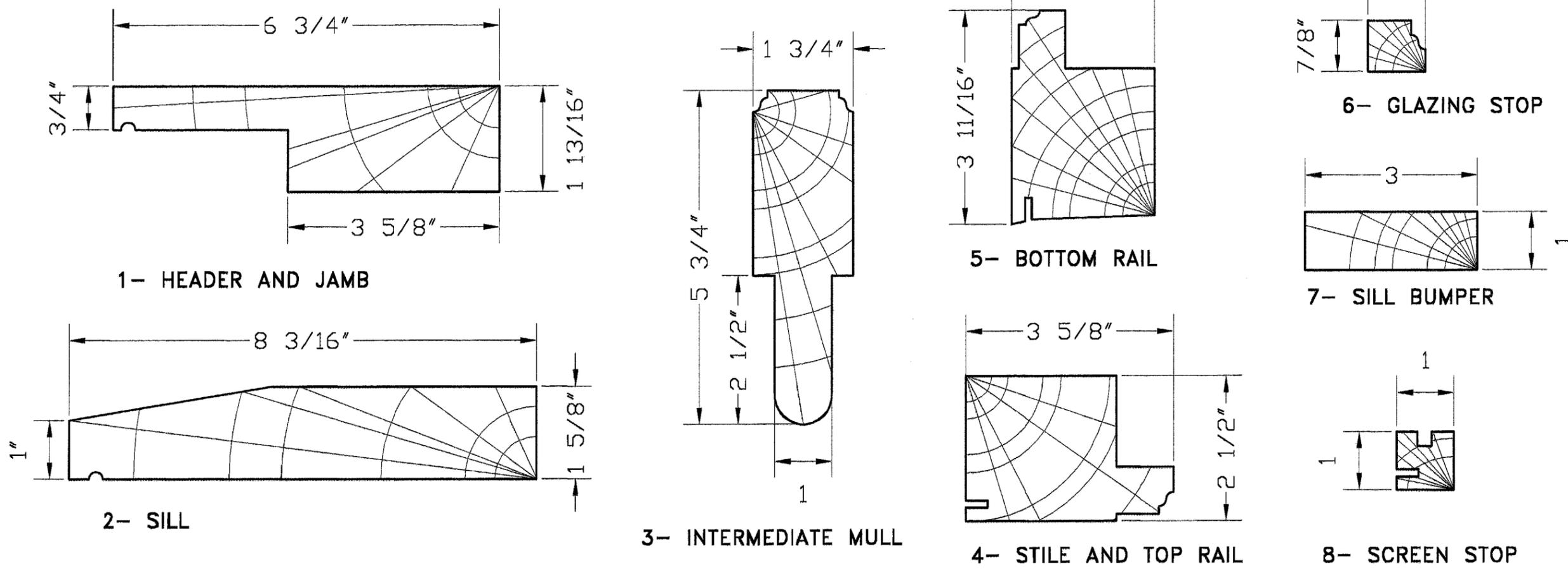
Date: 05/31/01
Scale: 1:32
Design by: PPMF

Revision:
Original 11/6/00
#1- 5/31/01

Drawing Number
204-00CW

Sheet
3 of 5

BASIC WINDOW COMPONENTS

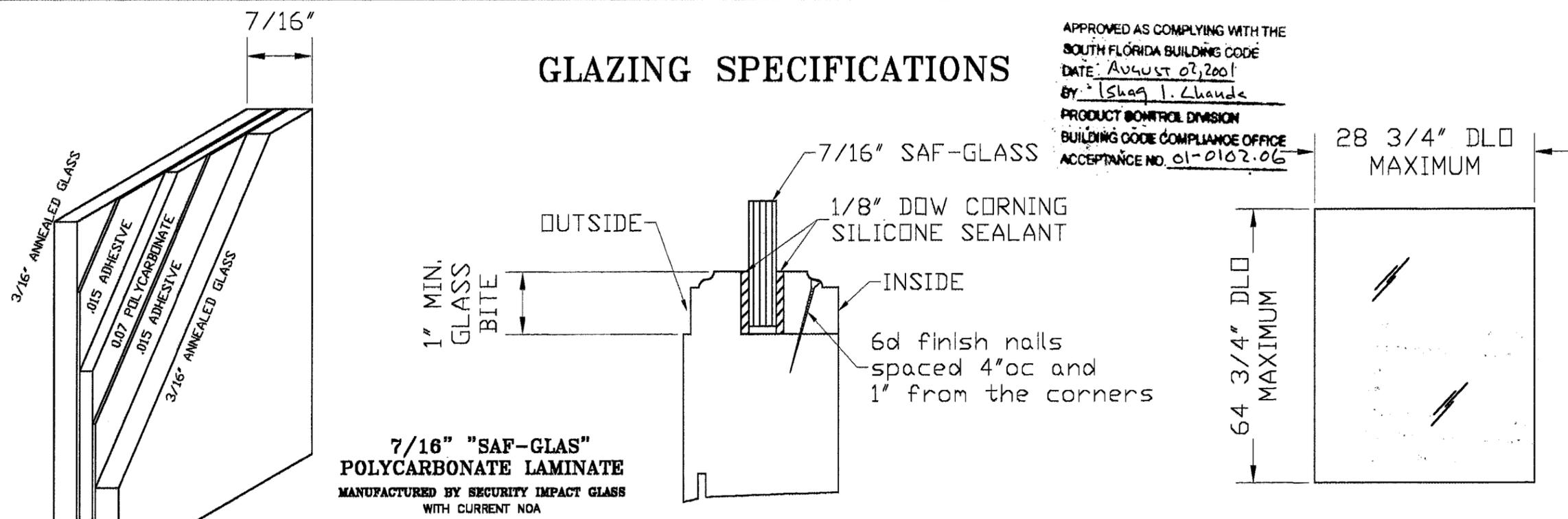


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GLAZING SPECIFICATIONS



JUL 02 2001

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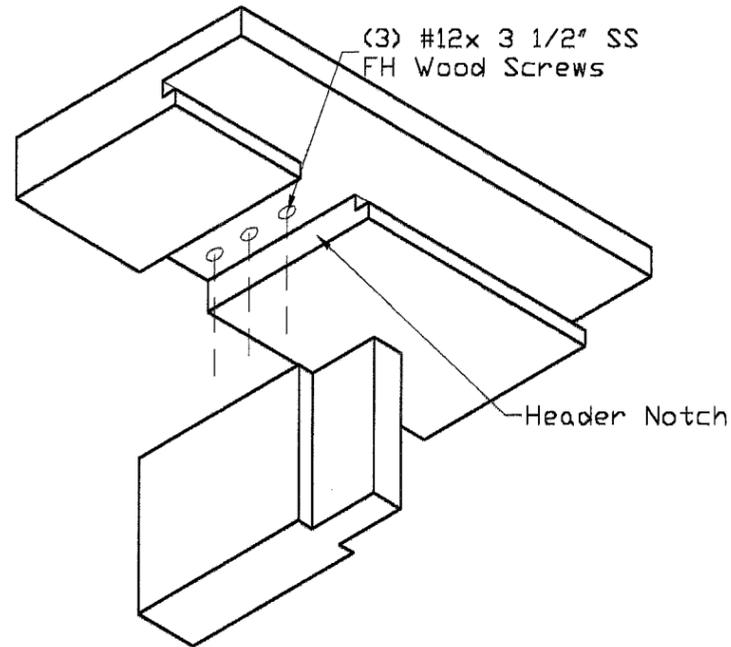
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Revision:
 Original 11/6/00
 #1- 5/31/01

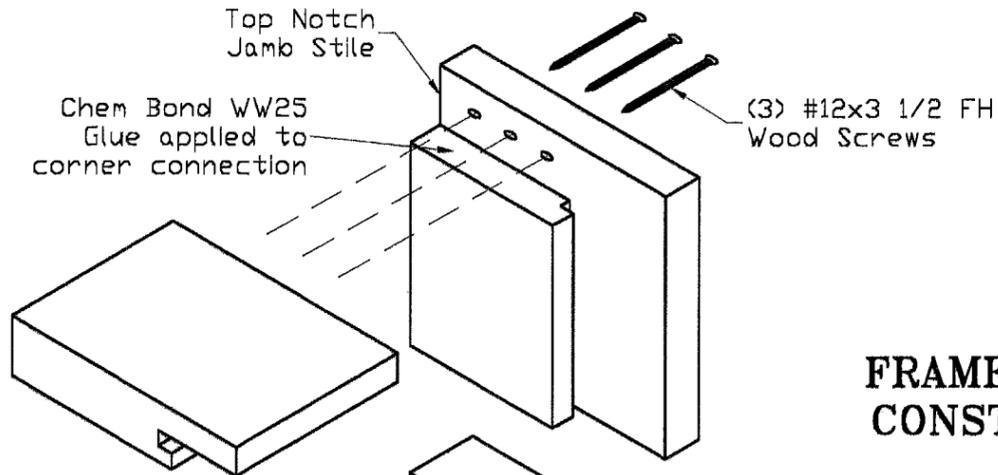
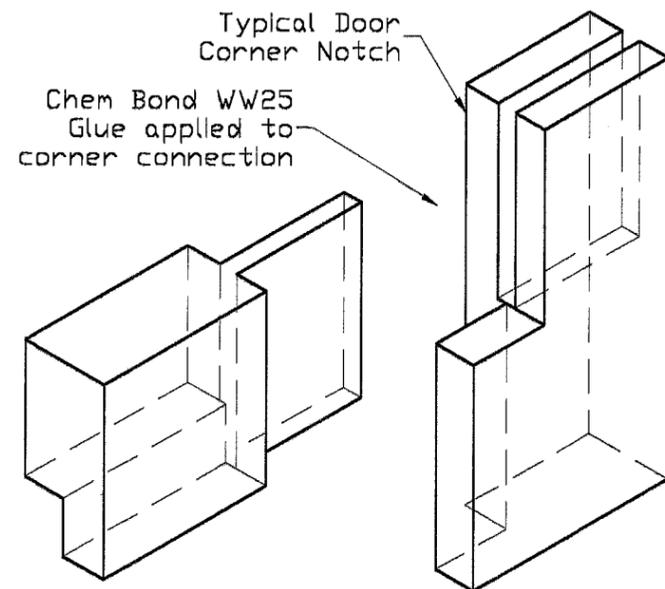
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204-00CW

Sheet
 4 of 5

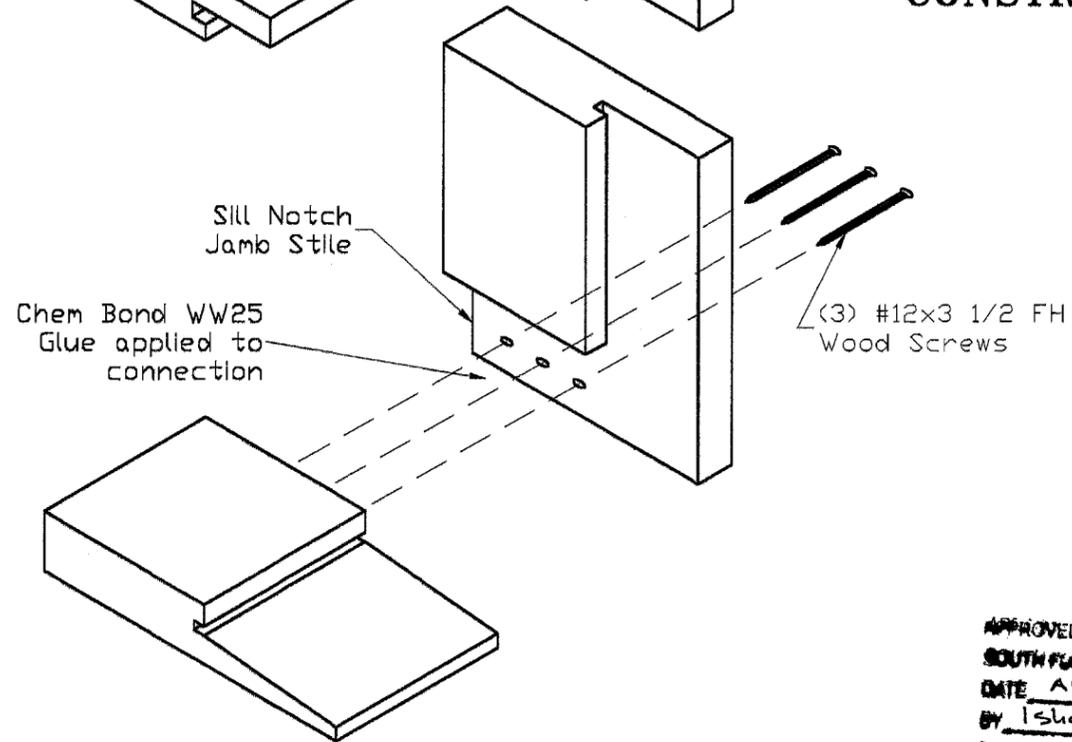
INTERMEDIATE FRAME CONNECTION



WINDOW CORNER CONNECTION



FRAME CORNER CONSTRUCTION



APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE AUGUST 2, 2001
 BY Ishaq I. Chauda
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
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Sheet
5 of 5