

Historic Architectural Review Commission

Agenda Packet

August 31, 2010 – 3:00 p.m.

City Commission Chamber
Old City Hall, 510 Greene Street



Item 5.b.4.

Request to replace existing garage door, open boarded fenestrations and install new storefront and windows. New color scheme and new fence- #1114 White Street Applicant: Mike Marino
(H10-01-242) Change existing storefront glass to impact rated, windows and doors with white frames. Replace existing garage door at storefront with the same impact rated windows as above. Existing garage door art will be saved and used inside. Replace double doors in rear of building with impact rated overhead door. Replace jalousie windows along right side of building with impact rated fixed windows. Reopen old window openings and add impact rated windows (4) along left side of building. Repair spalling concrete as needed. Request to add architectural details as shown on attached elevation drawing. Paint exterior. Replace existing chain link fence with white picket fence with working gates.

- 5b 4 Request to replace existing garage door, open boarded fenestrations and install new storefront and windows. New color scheme and new fence-
#1114 White Street Applicant: Mike Marino (H10-01-242)

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The building located on 1114 White Street is listed as a contributing structure. The one story cbs building was built circa 1912. Its used has been changed through time. The project includes the removal of an existing front garage door that has a mural painted by Rick Worth and its replacement with a storefront. The garage door will be kept in the interior of the building and visually accessible. The request also proposes the installation of impact glass windows on existing boarded fenestrations, replacement of jalousie windows, replace back door, installation of a garage door on the back, new color scheme for the walls and a new fence.

The existing Rick Worth's mural *Come and Eat* was commissioned in 1999 and was painted over an existing garage door. The building has been altered through time; in 1995 it was used as a plate glass shop.

Guidelines that should be reviewed for this application;

- Commercial storefronts and signage (page 46);

Storefronts are the focus of historical commercial buildings and are very important in defining the overall character. Many of the late 19th and early 20th century buildings in the commercial hub of Key West Old Town share a similarity and consistency that create a strong visual impact. Storefronts are often altered to meet the needs of a new business, but careful planning is required to protect the building's architecture and character.

It is staff believes that, although the existing mural over the garage door is not historic it gives character to this building and to the surrounding structures that possess art work in their facades. The applicant is requesting the installation of a similar storefront that is in existence and understands that his new business will need a transparent storefront. The applicants request to install a new storefront is in

keeping with the guidelines but the existing art work gives character to this building. The applicant proposes to keep the garage door on a visible area inside of the building.

For the review of proposed new windows staff believe that guidelines for windows, pages 29-30, can be apply to this request;

- *(3)- Replacement windows on contributing structures should be made to fit the original window opening without the use of blocking or infill. Such replacement windows, sills, muntins, sashes, surrounds and other window features should be of similar and compatible configuration, material, size, design, and placement as those of original windows-* The building have boarded fenestrations on the south side and jalousie windows on its north side, which are not historic. The applicant proposes to open existing boarded fenestrations and install impact windows. The existing jalousie windows will be replaced with impact windows.

For the proposed fence staff understands that guidelines for Fences and walls, pages 41-42, can be used to review this request.

- *(3) A picket fence up to 4 feet in height is permitted at the front of the structure; if a building is located on a corner lot this height should be consistent on both front and side elevations, at least to the rear edge of the structure. Picket fences should be constructed in proportion to historic dimensions-* The applicant is proposing to install a four feet picket fence on the front of the property, a gate, also four feet height, will provide access to the existing driveway.

The applicant included a color scheme for the exterior of the building;
Maga Greige- SW 7031 for the walls below the existing awning.
Anew Gray- SW 7030 for the wall above the awning
Incredible white- SW 7028 for trims

Application



CITY OF KEY WEST
BUILDING DEPARTMENT
CERTIFICATE OF APPROPRIATENESS

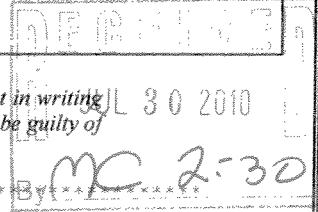
APPLICATION # 10-01-0242

OWNER'S NAME: Marino Construction Group
DATE: 07/30/10
OWNER'S ADDRESS: 1114 White St. Key West
PHONE #: 305 851 2201
APPLICANT'S NAME: Mike Marino
PHONE #: 305 359 5269
APPLICANT'S ADDRESS: PO Box 1706 Key West FL 33041
ADDRESS OF CONSTRUCTION: 1114 White Street # OF UNITS: 1

THERE WILL BE A FINAL INSPECTION REQUIRED UNDER THIS PERMIT

DETAILED DESCRIPTION OF WORK: See attached

Chapter 837.06 F.S.-False Official Statements - Whoever knowingly makes a false statement in writing with the intent to mislead a public servant in the performance of his or her official duty shall be guilty of a misdemeanor of the second degree punishable as provided for in s. 775.082 or 775.083



This application for Certificate of Appropriateness must precede applications for building permits, right of way permits, variances, and development review approvals. Applications must meet or exceed the requirements outlined by the Secretary of the Interior's Standards for Rehabilitation and Key West's Historic Architectural Guidelines.

Once completed, the application shall be reviewed by staff for completeness and either approved or scheduled for presentation to the Historic Architectural Review Commission at the next available meeting. The applicant must be present at this meeting. The filing of this application does not ensure approval as submitted.

Applications that do not possess the required Submittals will be considered incomplete and will not be reviewed for approval.

Date: 07/30/10

Applicant's Signature: [Signature]

Required Submittals

Table with 2 columns: Description of submittal, and a blank column for tracking. Rows include: TWO SETS OF SCALED DRAWINGS OF FLOOR PLAN, SITE PLAN AND EXTERIOR ELEVATIONS; TREE REMOVAL PERMIT; PHOTOGRAPHS OF EXISTING BUILDING; PHOTOGRAPHS OF ADJACENT BUILDINGS; ILLUSTRATIONS OF MANUFACTURED PRODUCTS TO BE USED SUCH AS SHUTTERS, DOORS, WINDOWS, PAINT COLOR CHIPS, AND AWNING FABRIC SAMPLES.

Staff Use Only

Date: _____

Staff Approval: _____

Fee Due:\$ _____

HISTORIC ARCHITECTURAL REVIEW APPLICATION

HISTORIC ARCHITECTURAL REVIEW COMMISSION USE ONLY

Approved _____

Denied _____

Deferred _____

Reason for Deferral or Denial:

HARC Comments:

Building is not listed in the surveys.
Guidelines for storefronts and windows.

Limit of Work Approved, Conditions of Approval and/or Suggested
Changes:

Date: _____

Signature: _____

Historic Architectural
Review Commission



MARINO CONSTRUCTION GROUP, INC.

PO BOX 1706, KEY WEST, FL 33041
OFFICE (305) 359-5269 • FAX (305) 459-1940
LIC. # CGC 021647

Property Address: 1114 White Street, Key West, Fl. 33040

Future location for: Marino Construction Group, Inc.

Former location of: Pages Paint Store

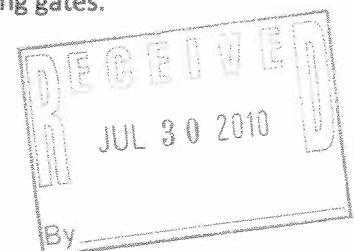
Detailed Description of Work

- Change existing storefront glass to impact rated, windows and doors, with white frames.
- Replace existing garage door at storefront with the same impact rated windows as above.
↳ EXISTING GARAGE DOOR ART WILL BE SAVED AND USED INSIDE
- Replace double doors in rear of building with impacted rated overhead door.
- Replace jalousie windows along right side of building with impact rated fixed windows.
- Add impact rated windows (4) along left side of building. (REOPEN OLD WINDOW OPENINGS)
- Repair spalling concrete as needed.
- Request to add architectural details as shown on attached elevation drawing.
- Paint exterior as follows:

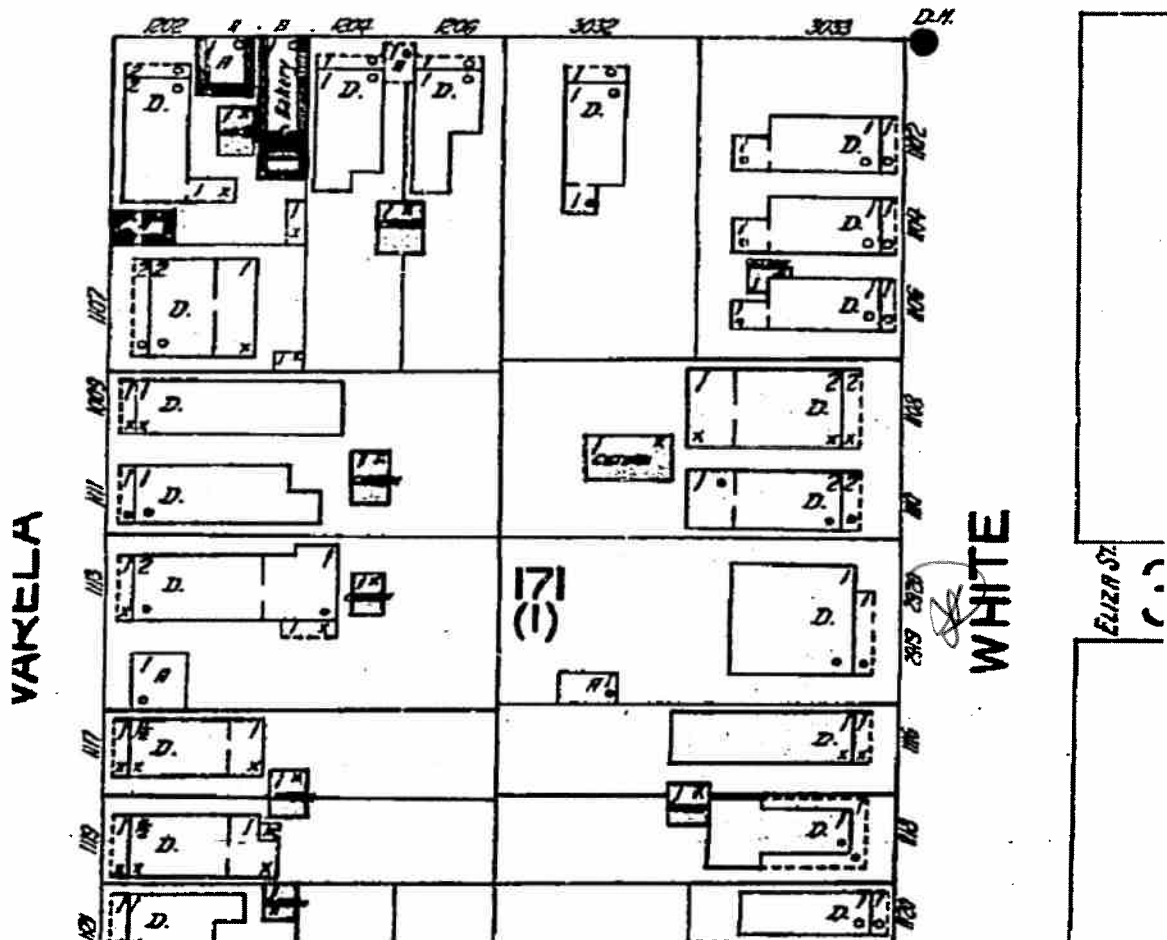
Below existing metal awning – Sherwin Williams SW7032 Warm Stone

Above existing metal awning – Sherwin Williams SW 7031 Mega Greige

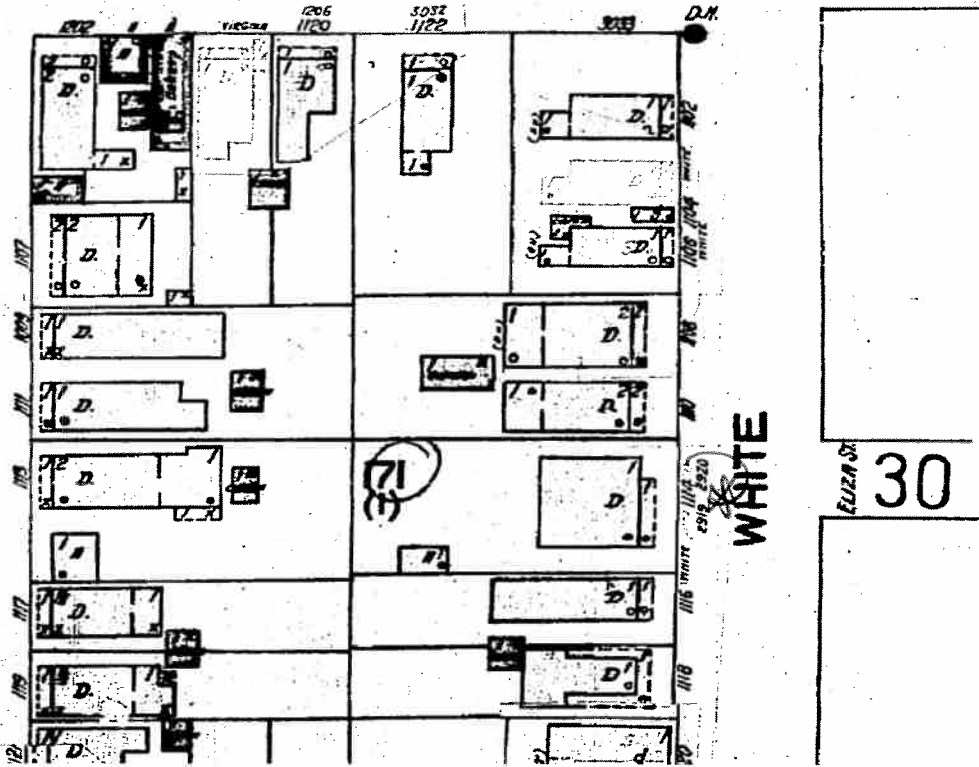
Added architectural details – Sherwin Williams SW 7028 Incredible White
- Replace existing chain link fence with white picket fence with working gates.



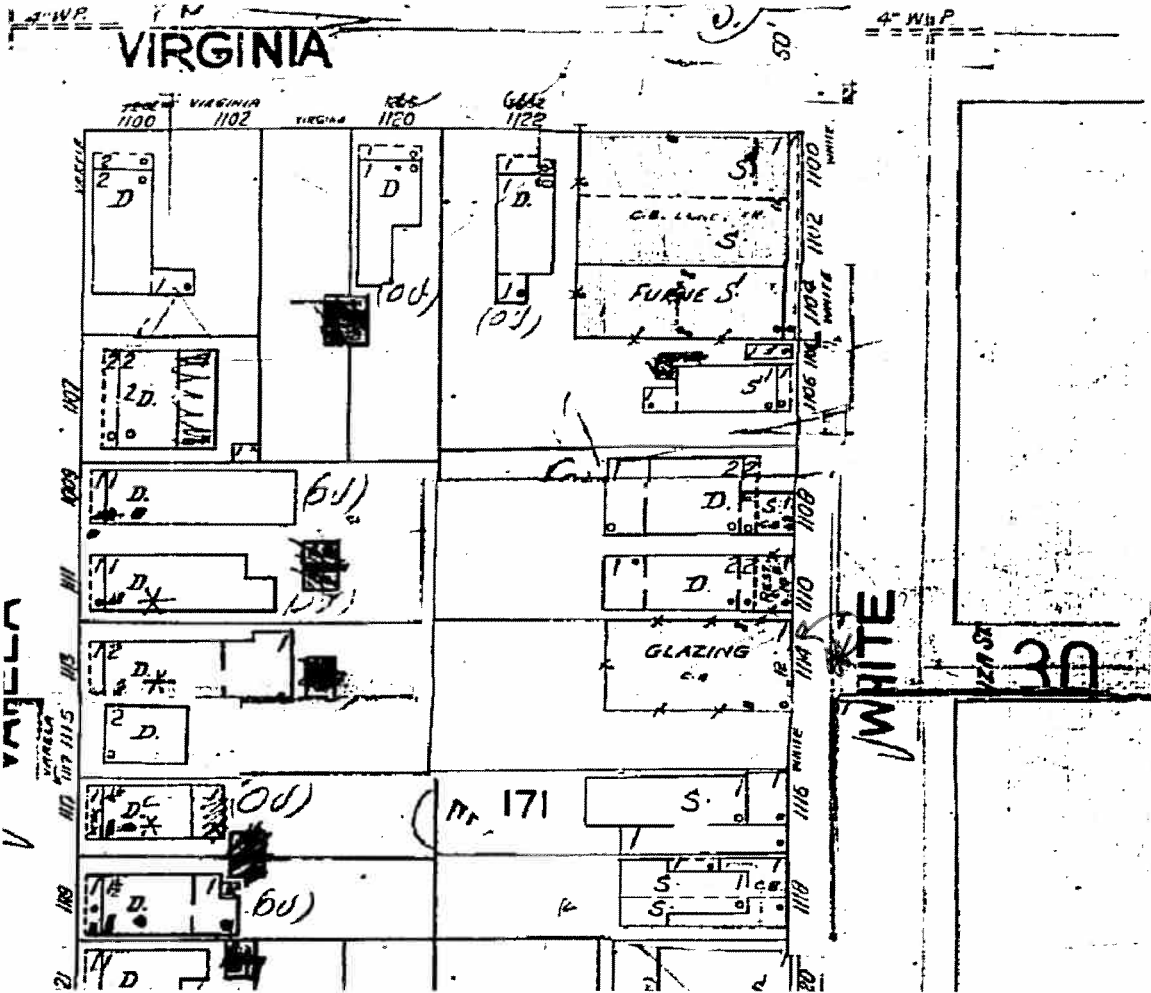
Sanborn Maps



#1114 White Street Sanborn map 1926

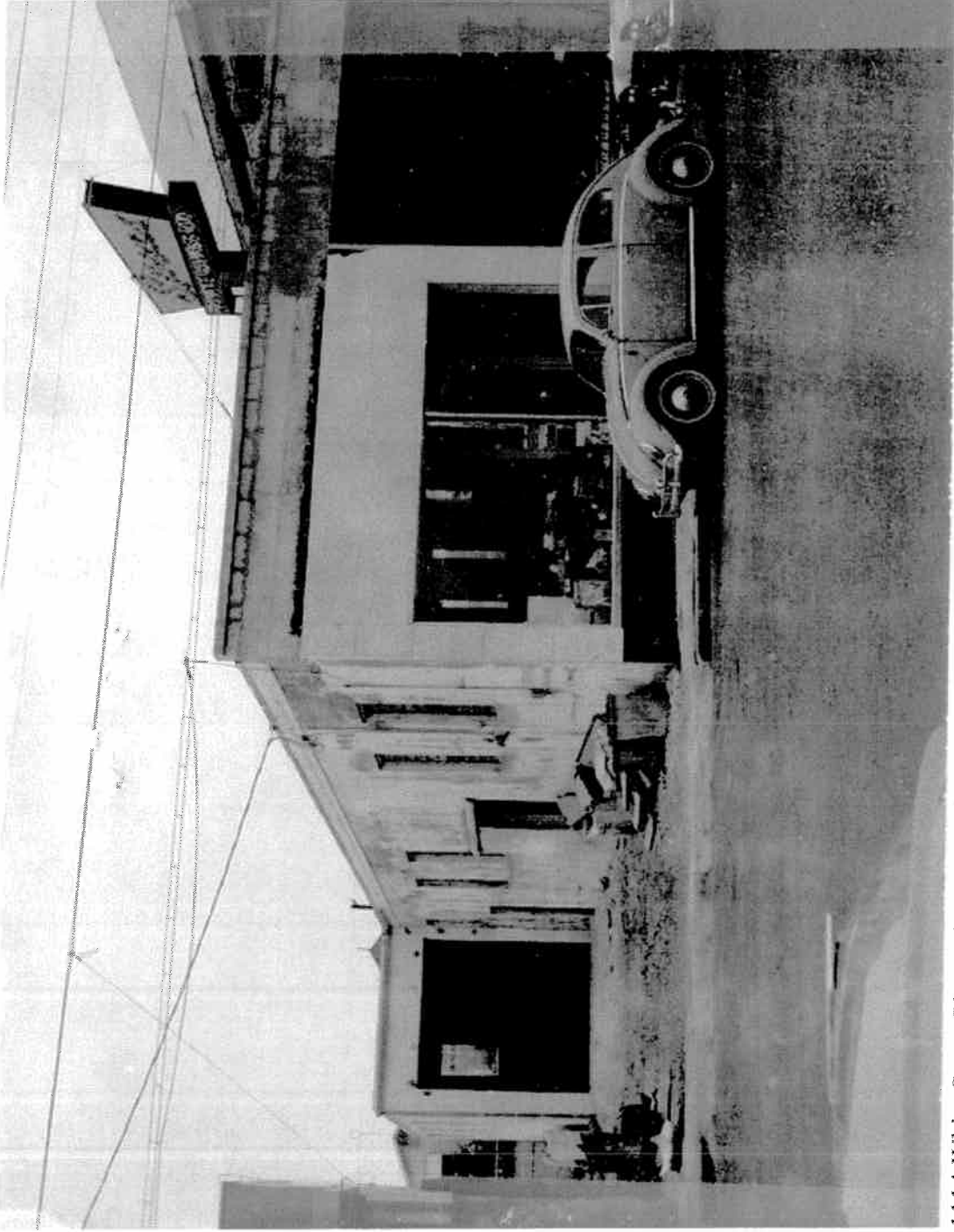


#1114 White Street Sanborn map Copy 1948



#1114 White Street Sanborn Map 1962

Project Photos

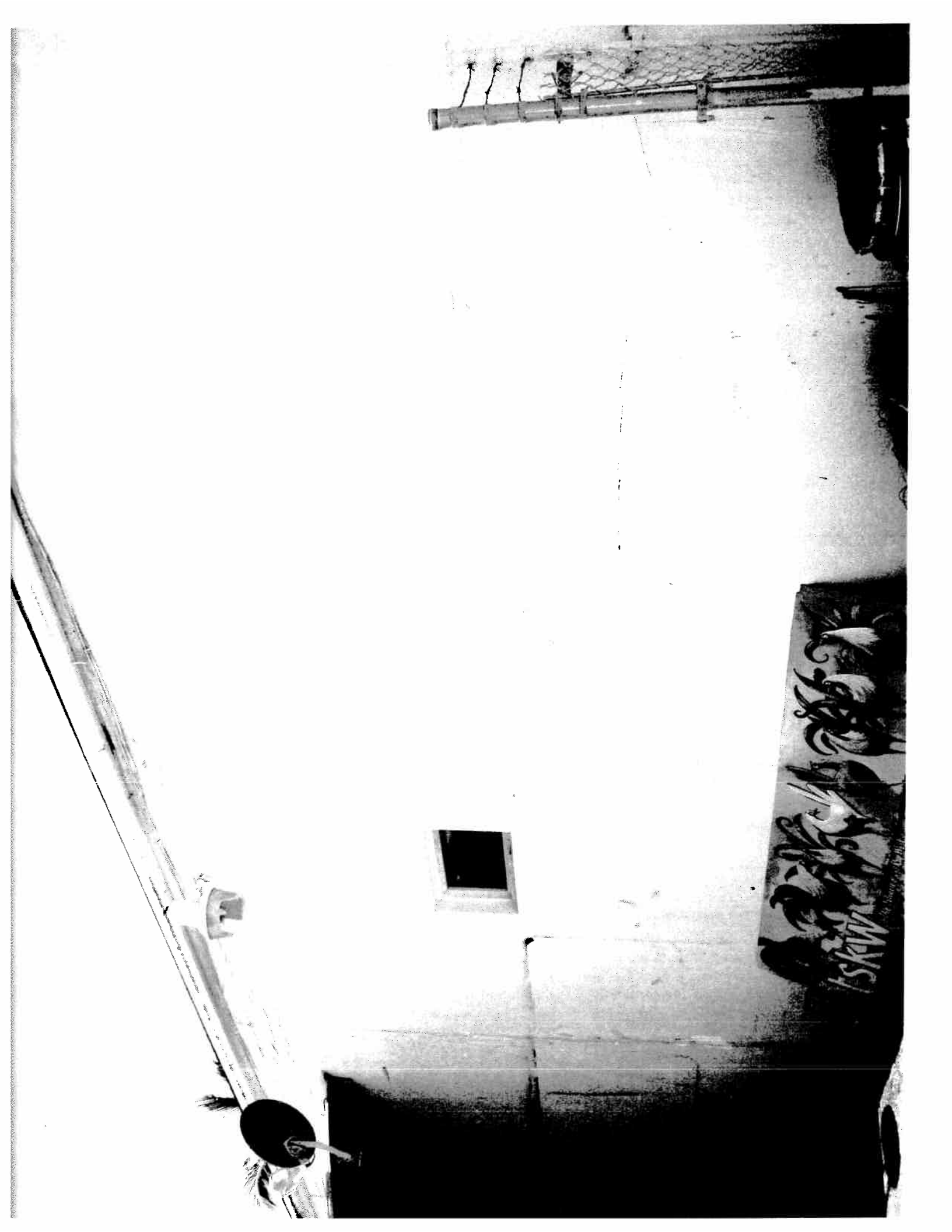


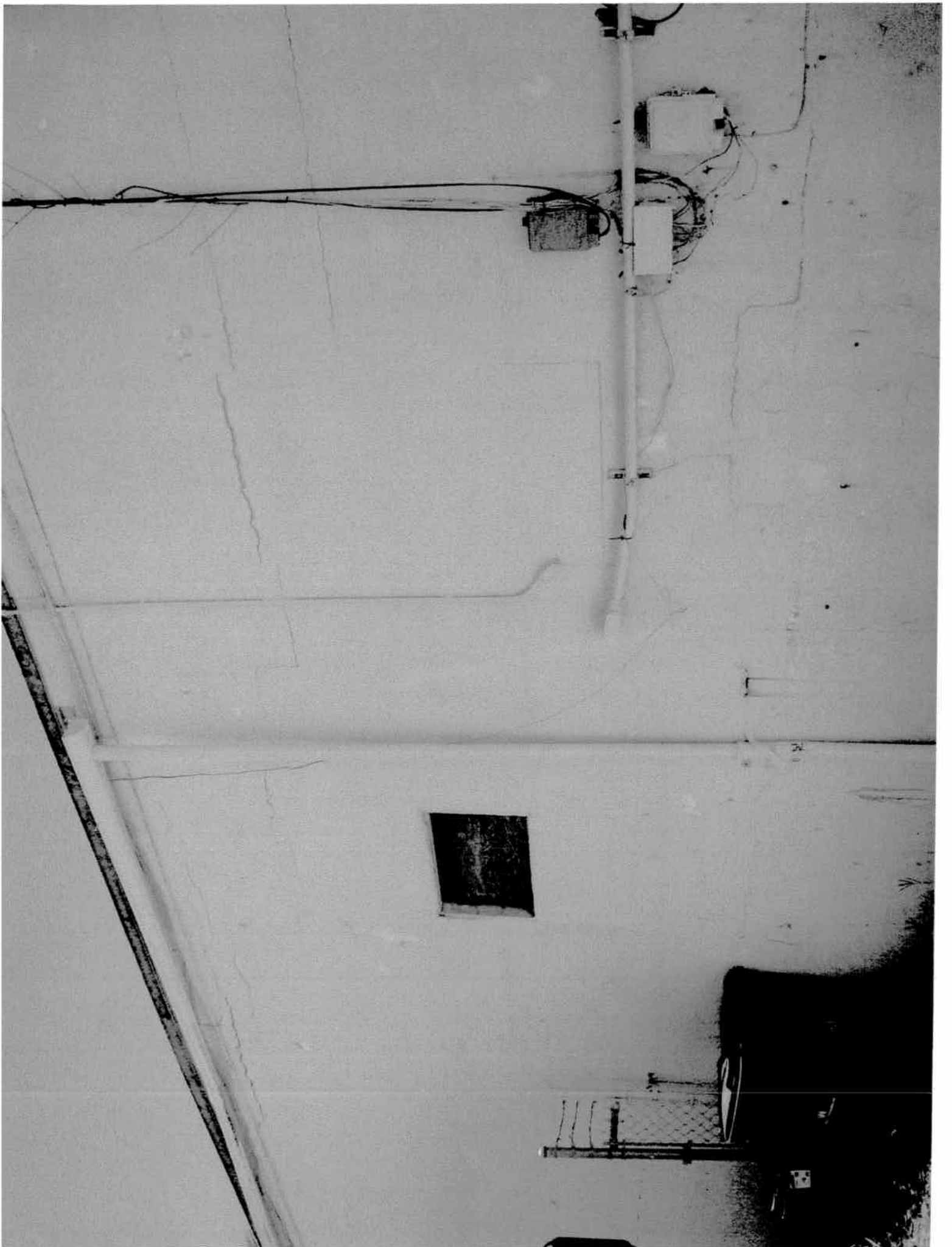
1114 White Street Photo circa 1965 Courtesy of Monroe County Library



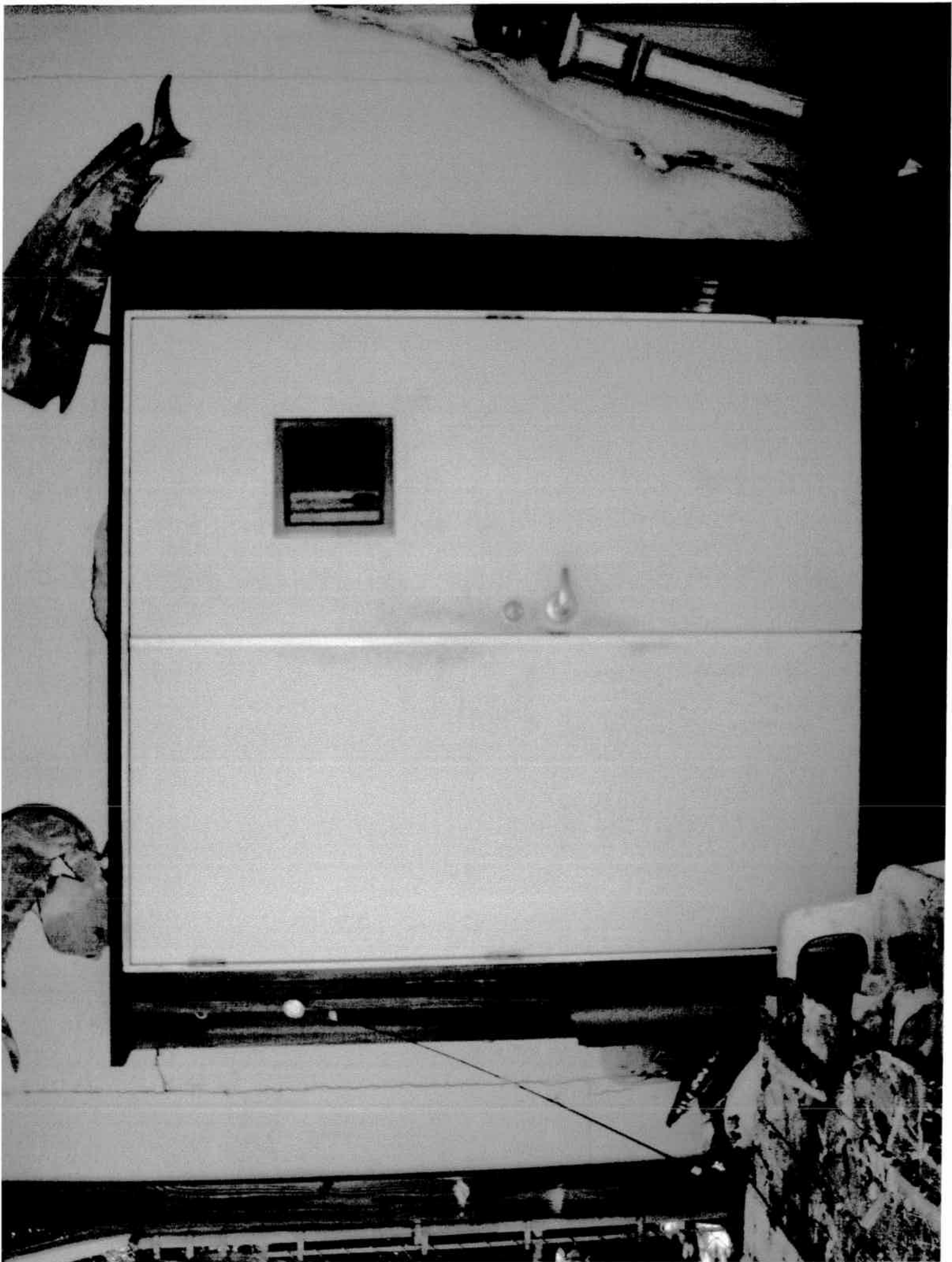




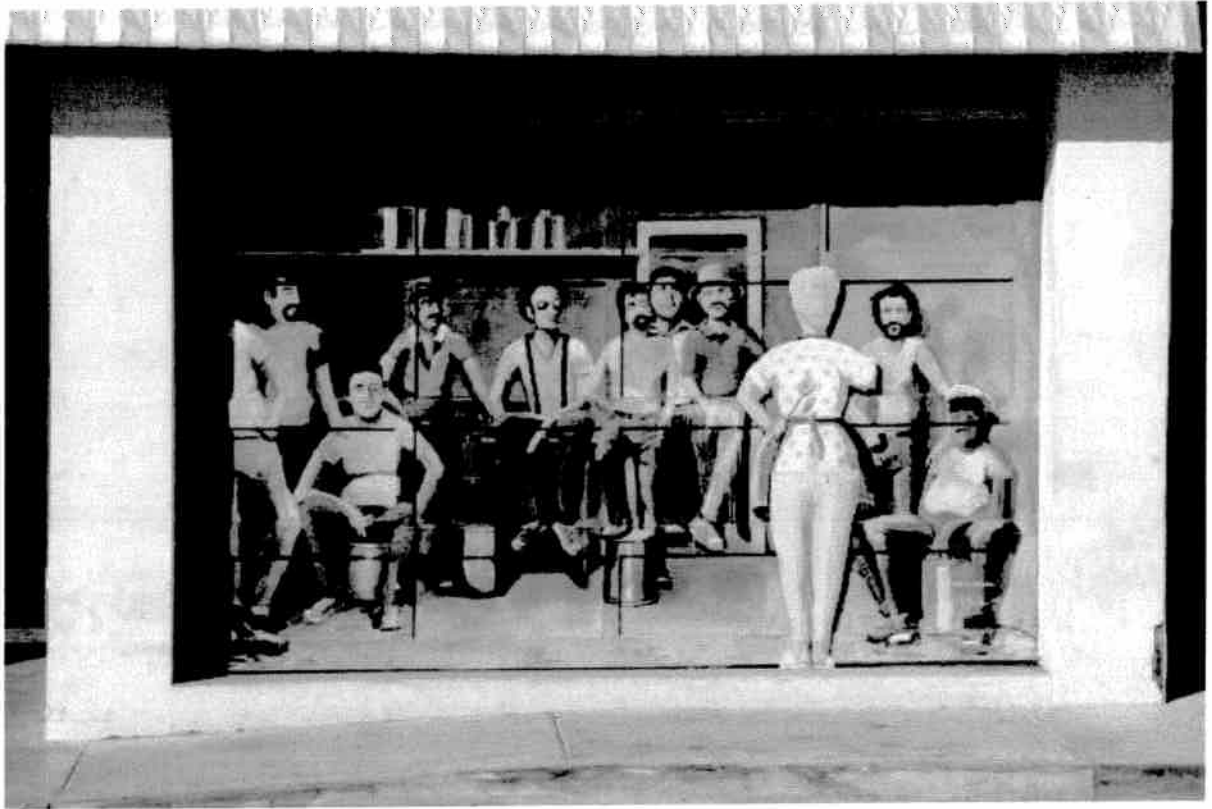












Correspondence

Historical Architectural Review Commission (HARC)
604 Simonton Street
Key West, Fl. 33030

To whom it may concern:

July 26, 2010

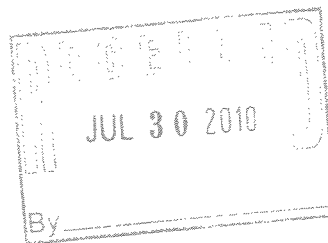
Currently, I am the owner of 1114 White Street, Key West, Florida 33040. I am in the process of selling this property to Marino Construction Group and we are set to close on this property August 20th. Please allow Marino Construction Group to submit their plans for exterior renovation, prior to obtaining official ownership of this building, so they may begin improvements as soon as they have closed on this property.

If you require additional information or paperwork, please let me know.

Thank you,

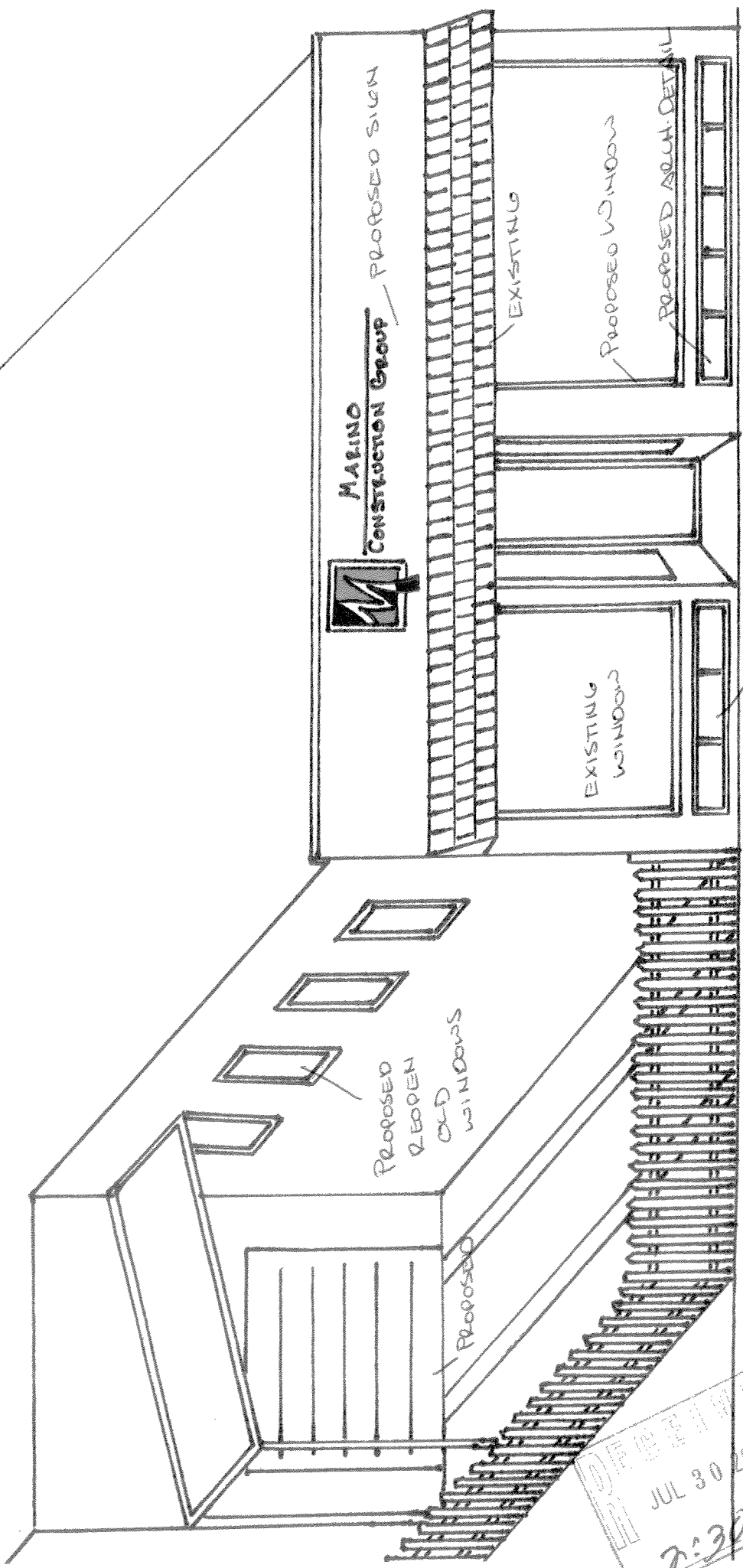


David Pfent



Site Plans

SCALE 3/16" = 1'



MARINO
Construction Group

PROPOSED SIGN

EXISTING

PROPOSED WINDOW

PROPOSED ALUM. DETAIL

EXISTING WINDOW

PROPOSED ALUM. DETAIL

PROPOSED REOPEN OLD WINDOWS

PROPOSED

DATE RECEIVED
JUL 30 2010
2:30 PM



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

www.miamidade.gov/buildingcode

NOTICE OF ACCEPTANCE (NOA)

Arch Aluminum & Glass Company
10200 NW 67 Street
Tamarac, FL 33321

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 "Impactwall 3000/L-3000" Aluminum Window Wall System - L.M.I.

APPROVAL DOCUMENT: Drawing No. 98-42, titled "Impactwall 3000/L-3000 Window Wall Sys.", sheets 1 through 11 of 11, dated 12/09/98, with revision J dated 08/10/09, 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 # 09-0122.06 and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



NOA No. 09-1110.03
Expiration Date: March 18, 2014
Approval Date: March 31, 2010
Page 1

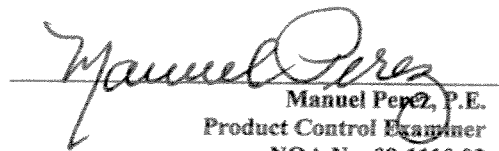
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **98-42**, titled "Impactwall 3000/L-3000 Window Wall Sys.", sheets 1 through 11 of 11, dated 12/09/98, with revision J dated 08/10/09, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, 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 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 202-94along with marked-up drawings and installation diagram of series 3000/L-3000 aluminum window wall system, prepared by Aluminum Window Wall System, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5893**, dated 04/02/09, signed and sealed by Michael R. Wenzel, P.E.
2. Test reports on:
 - 1) Large Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of Series 3000/L-3000 aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5416**, dated 11/15/07, signed and sealed by Michael Wenzel, P.E.
(Submitted under NOA# 09-0122.06)
3. Test reports on Safety Glazing Materials per ANSI Z97.1-1984 and CPSC 16 CFR 1201 of series 3000/L-3000 aluminum window wall System, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5421**, dated 10/18/07, signed and sealed by Michael Wenzel, P.E.
(Submitted under NOA# 09-0122.06)
4. Test reports on:
 - 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of an aluminum storefront system, prepared & issued by Fenestration Testing Laboratory, Test Report No. **FTL-3398**, dated 12/10/03, signed & sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA# 03-1211.08)


Manuel Perez, P.E.
Product Control Examiner

NOA No. 09-1110.03

Expiration Date: March 18, 2014

Approval Date: March 31, 2010

Arch Aluminum & Glass Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

5. Test reports on: 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum Window Wall system, prepared & issued by Fenestration Testing Laboratory, Test Report No. **FTL-3363** dated 04/24/03, signed and sealed by Edmundo J. Largaespada, P.E.
(Submitted under NOA# 03-1211.08)
6. Test reports on: 1) Large Missile Impact Test PA 201-94
2) Cyclic Loading Test, per SFBC PA 203-94
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc. Test Reports No. **FTL-3326**, dated 01/09/02, signed and sealed by Luis Antonio Figueredo, P.E.
(Submitted under NOA# 03-1211.08)
7. Test reports on: 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
3) Water Resistance Test, per SFBC, PA 202-94
4) Large Missile Impact Test per SFBC, PA 201-94
5) Cyclic Wind Pressure Loading per SFBC, PA 203-94
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-1010**, dated 10/25/94, signed and sealed by Yamil Gerardo Kuri, P.E.
(Submitted under NOA# 03-1211.08)
8. Test reports on: 1) Air Infiltration Test, per SFBC, PA 202-94
2) Uniform Static Air Pressure Test, Loading per SFBC, PA 202-94
3) Water Resistance Test, per SFBC, PA 202-94
along with marked-up drawings and installation diagram of an aluminum window wall system, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2221**, dated Dec. 9, 1998, signed and sealed by Gilbert Diamond, P.E.
(Submitted under NOA# 03-1211.08)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 09/04/09, signed and sealed by Arshad Viqar, P.E.
Complies with ASTM E1300-02/04

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-1110.03

Expiration Date: March 18, 2014
Approval Date: March 31, 2010

Arch Aluminum & Glass Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **07-1116.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont SentryGlas ® Plus**" dated 01/03/08, expiring on 01/14/12.
2. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G Clear or colored Interlayer**" dated 05/04/06, expiring on 05/21/11.
3. Notice of Acceptance No. **08-0206.01** issued to Solutia Inc. for their "**Saflex HP a polyvinyl butyral interlayer for lamination of glass**" dated 04/17/08, expiring on 04/14/13.

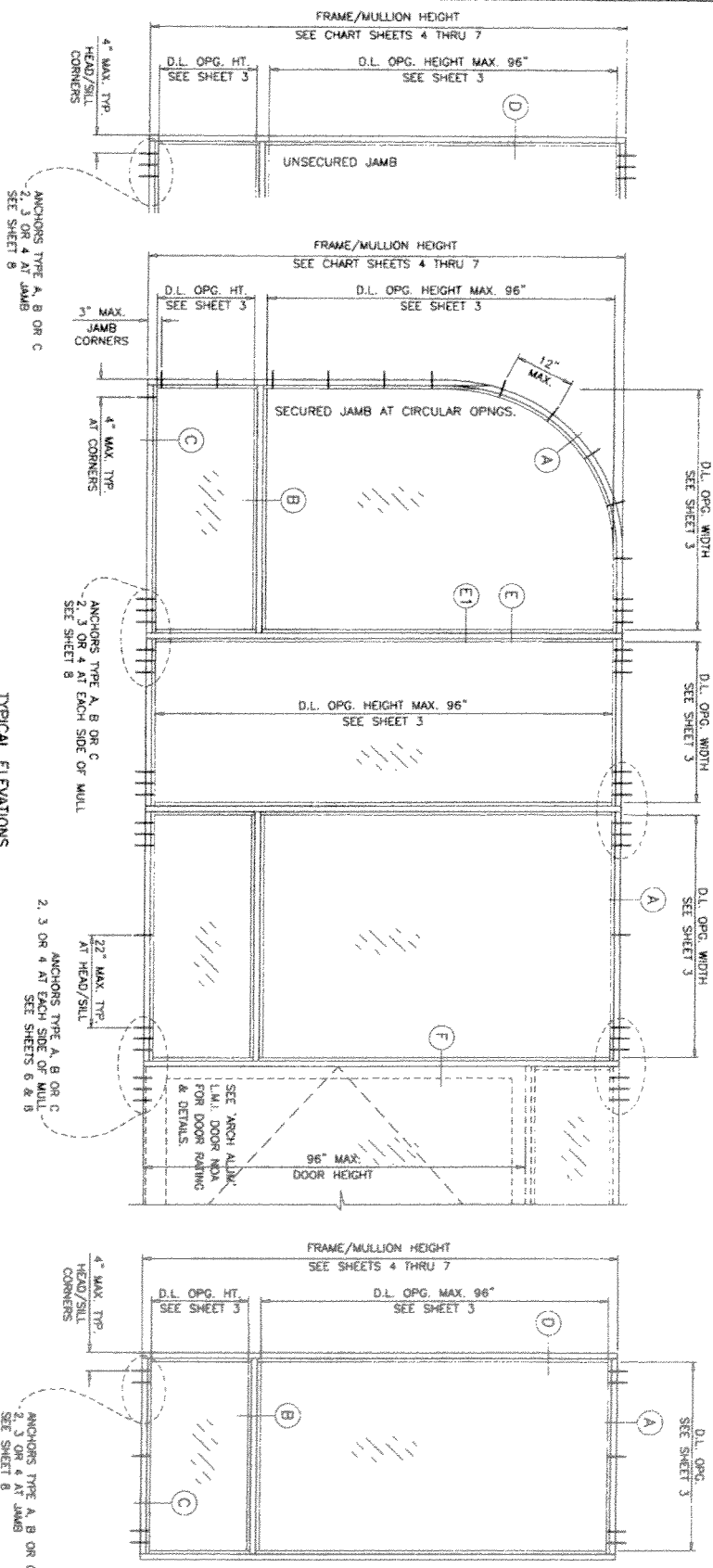
F. STATEMENTS

1. Statement letter of conformance and no financial interest, dated July 30, 2009, signed and sealed by Arshad Viqar, P.E.
2. Laboratory compliance letter for Test Reports No. **FTL- 5416** and **FTL-5421**, issued by Fenestration Testing Laboratory, Inc., dated 11/15/07 and 10/18/07 respectively and signed and sealed by Michael Wenzel, P.E.
3. Laboratory compliance letter for Test Report No. **FTL- 5416** and **FTL-5421**, issued by Fenestration Testing Laboratory, Inc., dated 11/20/07 and 10/29/07 respectively, signed and sealed by Michael Wenzel, P.E.

G. OTHER

1. Notice of Acceptance No. **09-0122.06**, issued to Arch Aluminum & Glass Company for their Series "3000/L-3000" Aluminum Window Wall System – L.M.I., approved on 03/18/09 and expiring on 03/18/14.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-1110.03
Expiration Date: March 18, 2014
Approval Date: March 31, 2010



**IMPACT WALL 3000/L-3000 ALUMINUM WINDOW WALL SYSTEM
INSIDE OR OUTSIDE GLAZED**

WINDOW WALL SYSTEM IS RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.
THIS SYSTEM MAY BE USED IN CONJUNCTION WITH MIAMI DADE COUNTY APPROVED ENTRANCE DOORS.
CODE REQUIREMENTS FOR SAFEGUARDS MUST BE OBSERVED.

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, ALUM. SCREENS, THAT COME INTO CONTACT WITH OTHER DISSIPATING MATERIALS SHALL MEET THE REQUIREMENTS OF 2007 FLORIDA BLDG. CODE SECTION 2003.8.4.

TYPICAL ELEVATIONS

INSTRUCTIONS:

- USE CHARTS AS FOLLOWS:
- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND SPEED, EXPOSURE, HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
 - STEP 2** SEE CHARTS ON SHEET 3 FOR DESIGN LOAD CAPACITY OF DESIRED GLASS SIZE.
 - STEP 3** CHECK MULLION CAPACITY FOR A GIVEN SPACING AND HEIGHT USING CHARTS ON SHEET 4 THROUGH 7. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
 - STEP 4** USING CHART ON SHEET 8 SELECT ANCHOR OPTION WITH DESIGN RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
 - STEP 5** THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

PRODUCT COMPLIES WITH REQUIREMENTS OF ANSI Z97.1

Eng. AND ARCHT.
OAL
FLA. REG. # 70582
CAL. REG. # 5538
MAR 29 2010

PROJECT REVISIONS
REVISIONS TO BE MADE TO THIS DRAWING
BY: *[Signature]*
DATE: 09-11-03
APPROVED: *[Signature]*
DATE: 09-11-03
REVISIONS TO BE MADE TO THIS DRAWING
BY: *[Signature]*
DATE: 03-29-10

no.	date	by	description
F	07.22.04		GENERAL REVISION
D	11.08.05		D.L. NO. REV.
H	01.12.06		NOTES REV.
L	10.14.08		UPDATED FOR 2007 FBC
T	08.10.09		GENERAL REVISION

IMPACTWALL 3000/L-3000 WINDOW WALL SYS.
ARCH ALUMINUM & GLASS L.C.
10200 N.W. 67th street
TAMARAC, FL. 33321
TEL. (800) 432-8132 FAX. (954) 724-9293

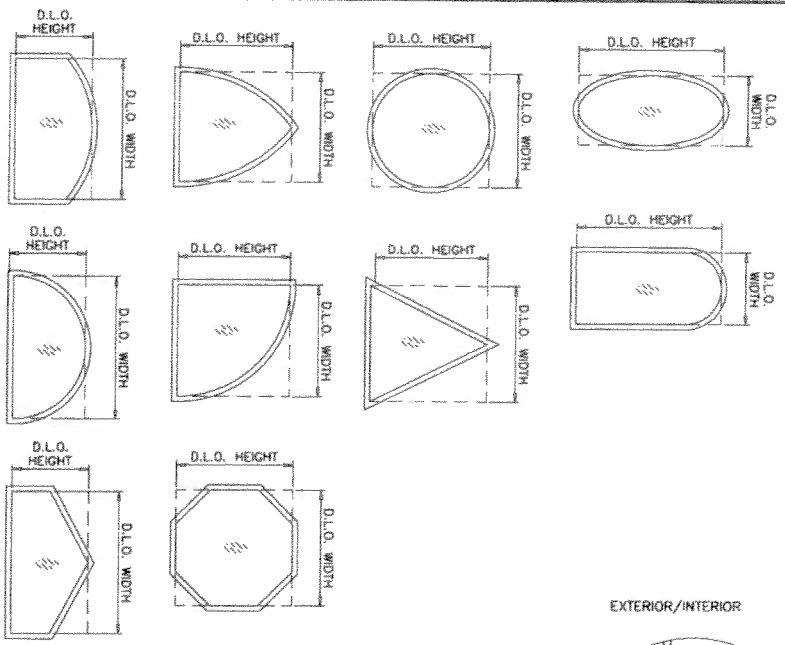
AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-8878
STORE 98-42AA

note: 12-09-08
scale: 1/2"=1'-0"
dr. by: HAMID
chk. by:

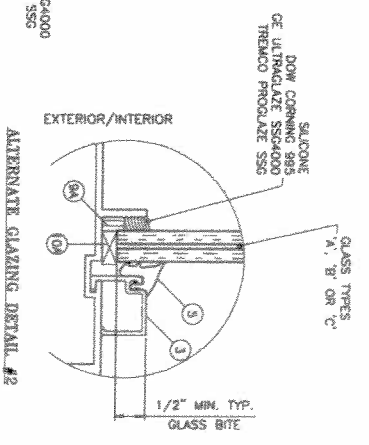
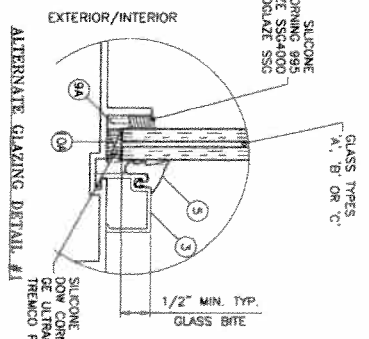
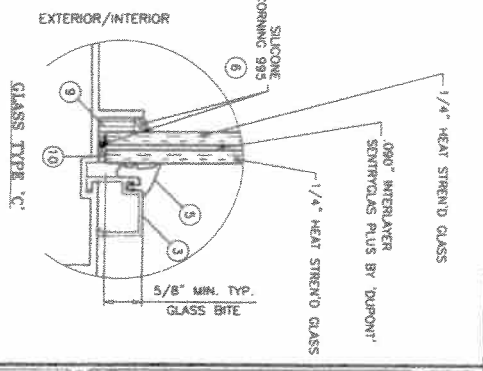
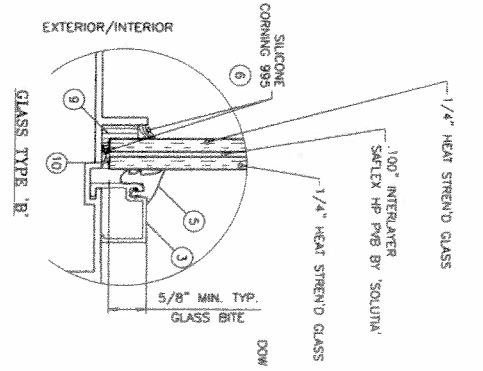
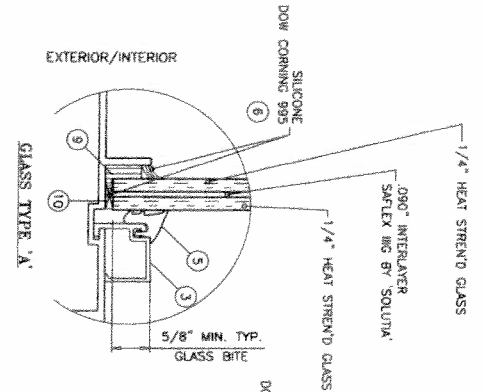
drawing no. 98-42
sheet 1 of 11

FOR ALTERNATE SHAPES LIMIT MAX. LOADS TO ±90.0 PSF
 SEE SHEET 3 FOR D.L.O. WIDTHS AND HEIGHTS.
 USE ANCHOR TYPES A, B OR C AT 4" FROM FRAME ENDS AND 12" O.C. MAX. SPACING.

ALLOWABLE LOADS FOR ALTERNATE SHAPES AS SHOWN ABOVE OR SIMILAR CAN BE
 VERIFIED BY INSCRIBING PICTURE WINDOW SHAPE WITHIN SQUARE OR RECTANGLE AS
 SHOWN IN DOTTED LINES AND OBTAINING ALLOWABLE LOADS FROM THOSE SHAPES.
 SINGLE LITES MAY BE INSTALLED VERTICALLY AS SHOWN ABOVE OR HORIZONTALLY.



GLAZING OPTIONS
 9/16" OVERALL UNLAMINATED GLASS



ALTERNATE GLAZING DETAIL #2
 FOR GLAZING DETAIL #2 ONLY
 LIMIT MAX. LOADS TO ±50.0 PSF
 LIMIT MAX. GLASS AREA TO 29 SQ. FT.

Engr. JAWAD FAROOQ
 CIVIL
 P.L.A. No. 70993
 C.A.M. 3538
 MAR 20 2010

PHOTOGRAPH BY JAWAD FAROOQ
 as evidenced with the double
 signature of the
 Architect and the
 Engr. on 09-11-03
 Registration Date 09-11-03
 Professional Seal of JAWAD FAROOQ
 Engr. JAWAD FAROOQ

no.	date	description
1	01.13.08	GLAZING DETAIL ADDED
2	12.14.08	NO CHANGE THIS SHEET
3	08.10.09	GENERAL REVISION

date: 12-09-08
 scale: 1/2" = 1"
 dr. by: HAMD
 chg. by:

IMPACTWALL 3000/L-3000 WINDOW WALL SYS.
 ARCH ALUMINUM & GLASS LC.
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 TAMARAC, FL. 33321
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 1236 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 264-8300 FAX. (305) 262-6978
 STORE 98-42AA

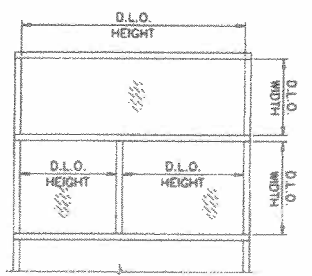


DESIGN LOAD CAPACITY - PSF						
NOMINAL DIMS.	GLASS TYPE A	GLASS TYPE B	GLASS TYPE C	GLASS TYPE A	GLASS TYPE B	GLASS TYPE C
D.L.O. HEIGHT	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)
36"	87.0	100.0	100.0	87.0	100.0	100.0
39"	87.0	100.0	100.0	87.0	100.0	100.0
42"	87.0	100.0	100.0	87.0	100.0	100.0
45"	87.0	100.0	100.0	87.0	100.0	100.0
48"	87.0	100.0	100.0	87.0	100.0	100.0
51"	87.0	100.0	100.0	87.0	100.0	100.0
54"	87.0	100.0	100.0	87.0	100.0	100.0
57"	87.0	100.0	100.0	87.0	100.0	100.0
60"	87.0	100.0	100.0	87.0	100.0	100.0
63"	87.0	100.0	100.0	87.0	100.0	100.0
66"	87.0	100.0	100.0	87.0	100.0	100.0
69"	87.0	100.0	100.0	87.0	100.0	100.0
72"	87.0	100.0	100.0	87.0	100.0	100.0

DESIGN LOAD CAPACITY - PSF						
NOMINAL DIMS.	GLASS TYPE A	GLASS TYPE B	GLASS TYPE C	GLASS TYPE A	GLASS TYPE B	GLASS TYPE C
D.L.O. HEIGHT	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)
36"	87.0	100.0	100.0	87.0	100.0	100.0
39"	87.0	100.0	100.0	87.0	100.0	100.0
42"	87.0	100.0	100.0	87.0	100.0	100.0
45"	87.0	100.0	100.0	87.0	100.0	100.0
48"	87.0	100.0	100.0	87.0	100.0	100.0
51"	87.0	100.0	100.0	87.0	100.0	100.0
54"	87.0	100.0	100.0	87.0	100.0	100.0
57"	87.0	100.0	100.0	87.0	100.0	100.0
60"	87.0	100.0	100.0	87.0	100.0	100.0
63"	87.0	100.0	100.0	87.0	100.0	100.0
66"	87.0	100.0	100.0	87.0	100.0	100.0
69"	87.0	100.0	100.0	87.0	100.0	100.0
72"	87.0	100.0	100.0	87.0	100.0	100.0

DESIGN LOAD CAPACITY - PSF						
NOMINAL DIMS.	GLASS TYPE A	GLASS TYPE B	GLASS TYPE C	GLASS TYPE A	GLASS TYPE B	GLASS TYPE C
D.L.O. HEIGHT	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)
36"	87.0	100.0	100.0	87.0	100.0	100.0
39"	87.0	100.0	100.0	87.0	100.0	100.0
42"	87.0	100.0	100.0	87.0	100.0	100.0
45"	87.0	100.0	100.0	87.0	100.0	100.0
48"	87.0	100.0	100.0	87.0	100.0	100.0
51"	87.0	100.0	100.0	87.0	100.0	100.0
54"	87.0	100.0	100.0	87.0	100.0	100.0
57"	87.0	100.0	100.0	87.0	100.0	100.0
60"	87.0	100.0	100.0	87.0	100.0	100.0
63"	87.0	100.0	100.0	87.0	100.0	100.0
66"	87.0	100.0	100.0	87.0	100.0	100.0
69"	87.0	100.0	100.0	87.0	100.0	100.0
72"	87.0	100.0	100.0	87.0	100.0	100.0

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-02/04 (3 SEC. GUSTS)



Eng: Javed Ahmad
P.L. P.E. & Todd
C.A.M. 3000
MAR 9 9 2011

PROJECT: 13-110-03
Revision: 10/18/10
Responsible Date: 10/18/10

no	date	by	description
1	07.22.04		GENERAL REVISION
2	11.08.05		NO CHANGE THIS SHEET
3	01.12.08		NOTES REV.
4	10.14.08		NO CHANGE THIS SHEET
5	08.10.09		GENERAL REVISION

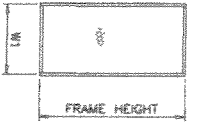
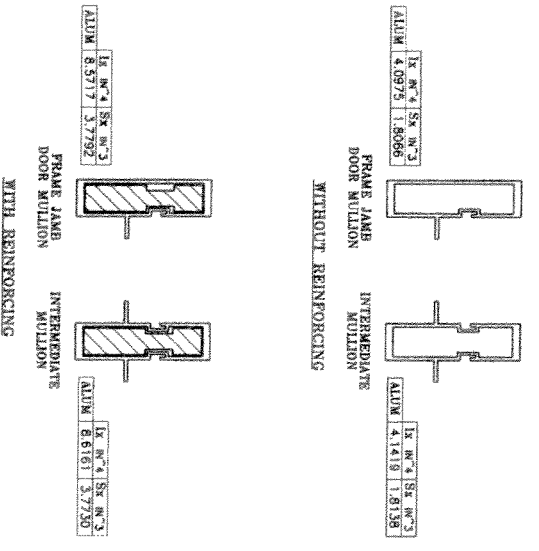
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MIAMI, FLORIDA 33174
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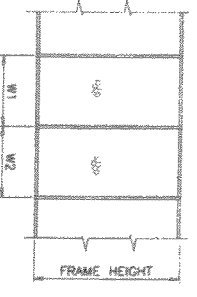
drawing no. **98-42**
Sheet 3 of 11
STORE: 98-42AA

MULLION LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS. WIDTH (W)	FRAME HEIGHT	WITHOUT REINFORCING	
		EXT(+)/INT(-)	EXT(+)/INT(-)
24"		87.5	100.0
30"		87.5	100.0
36"		87.5	100.0
42"		87.5	100.0
48"		87.5	100.0
54"		87.5	100.0
60"		87.5	100.0
66"		87.5	100.0
72"		87.5	100.0
24"		87.5	100.0
30"		87.5	100.0
36"		87.5	100.0
42"		87.5	100.0
48"		87.5	100.0
54"		87.5	100.0
60"		87.5	100.0
66"		87.5	100.0
72"		87.5	100.0
24"		87.5	100.0
30"		87.5	100.0
36"		87.5	100.0
42"		87.5	100.0
48"		87.5	100.0
54"		87.5	100.0
60"		87.5	100.0
66"		87.5	100.0
72"		87.5	100.0
24"		87.5	100.0
30"		87.5	100.0
36"		87.5	100.0
42"		87.5	100.0
48"		87.5	100.0
54"		87.5	100.0
60"		87.5	100.0
66"		87.5	100.0
72"		87.5	100.0

MULLION LOAD CAPACITY - PSF WITHOUT INTERMEDIATE HORIZONTALS			
NOMINAL DIMS. WIDTH (W)	FRAME HEIGHT	WITHOUT REINFORCING	
		EXT(+)/INT(-)	EXT(+)/INT(-)
24"		85.7	100.0
30"		89.3	100.0
36"		98.5	100.0
42"		51.0	100.0
48"		45.5	94.7
54"		41.4	88.1
60"		38.2	79.5
66"		35.7	74.3
24"		72.7	100.0
30"		58.7	100.0
36"		49.6	100.0
42"		43.1	89.7
48"		38.4	79.8
54"		34.8	72.4
60"		32.0	66.7
24"		62.2	100.0
30"		50.2	100.0
36"		42.3	88.0
42"		36.8	76.5
48"		32.7	68.0
54"		29.6	61.5
60"		27.2	56.5



WIDTH (W) = W1 (JAMBS)



WIDTH (W) = W1 + W2

Engr. JAWAD AHMED
P.L.A. No. 70682
C.A.N. 8539
MAR 9 9 2010

REINFORCING REVISED
as per drawing with the frame
Revision: Code
Description: No.
Date: _____

date: 12-09-98	revisions:
scale: 1/2" = 1"	no. date by description
dr. by: HAMD	F 07.22.04 GENERAL REVISION
chk. by:	G 11.08.05 NO CHANGE THIS SHEET
	H 01.12.08 NO CHANGE THIS SHEET
	I 10.14.08 NO CHANGE THIS SHEET
	J 08.10.09 GENERAL REVISION

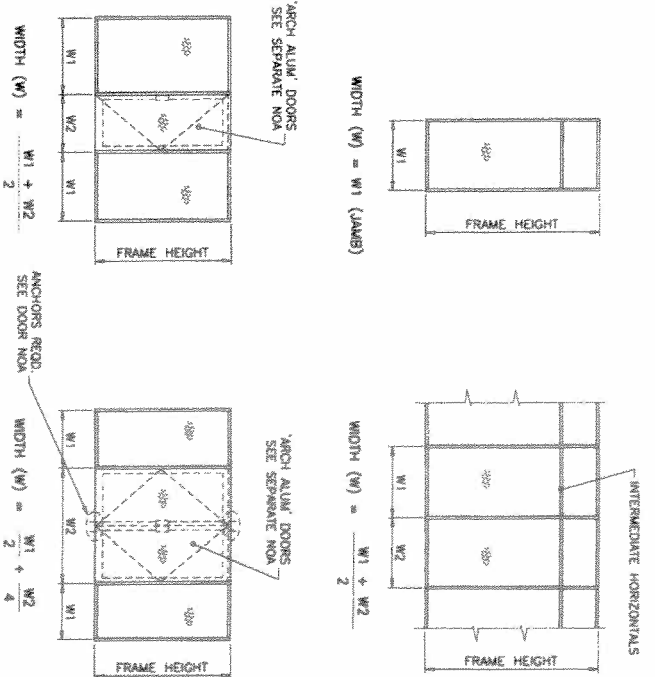
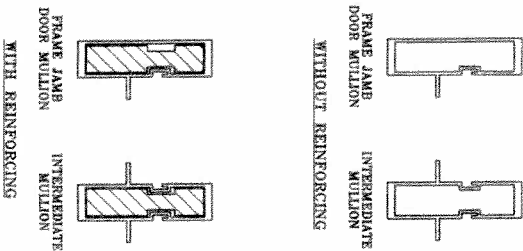
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MIAMI, FLORIDA 33174
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a f c
STORE 98-42AA

MILLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS. WIDTH (W)	FRAME HEIGHT	WITHOUT REINFORCING	
		EXT (+) / INT (-)	EXT (+) / INT (-)
24"		87.5	100.0
30"		87.5	100.0
36"		87.5	100.0
42"		87.5	100.0
48"		87.5	100.0
54"		87.5	100.0
60"		82.9	100.0
66"		75.4	100.0
72"		69.1	100.0
24"		87.5	100.0
30"		87.5	100.0
36"		87.5	100.0
42"		87.5	100.0
48"		87.5	100.0
54"		79.0	100.0
60"		71.1	100.0
66"		64.6	100.0
72"		59.2	100.0
24"		87.5	100.0
30"		87.5	100.0
36"		87.5	100.0
42"		83.1	100.0
48"		72.7	100.0
54"		64.6	100.0
60"		58.2	100.0
66"		52.9	100.0
72"		48.5	100.0
24"		87.5	100.0
30"		87.5	100.0
36"		79.9	100.0
42"		68.5	100.0
48"		59.9	100.0
54"		53.3	100.0
60"		47.9	99.7
66"		43.6	90.7
72"		39.9	83.1
24"		87.5	100.0
30"		79.9	100.0
36"		66.6	100.0
42"		57.1	100.0
48"		50.0	100.0
54"		44.4	92.4
60"		40.0	83.1
66"		36.3	75.6
72"		-	69.3

MILLION LOAD CAPACITY - PSF WITH INTERMEDIATE HORIZONTALS			
NOMINAL DIMS. WIDTH (W)	FRAME HEIGHT	WITHOUT REINFORCING	
		EXT (+) / INT (-)	EXT (+) / INT (-)
24"		84.2	100.0
30"		67.3	100.0
36"		56.1	100.0
42"		46.1	100.0
48"		42.1	87.5
54"		37.4	77.8
60"		33.7	70.0
66"		30.6	63.7
72"		27.6	58.6
24"		71.6	100.0
30"		57.3	100.0
36"		47.7	98.3
42"		40.9	85.1
48"		35.8	74.4
54"		31.8	66.2
60"		28.6	59.6
66"		26.1	54.1
72"		24.3	51.1



Eng. JAWAD AHMAD
P.E. No. 32862
C.A.S. No. 5331
MAR 29 2010

PROJECT #37-0423
as approved with the Florida
Professional Seal
09-1119-03
10-14-08
10-14-08

date:	12-09-98
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

no	date	description
F	07.22.04	GENERAL REVISION
G	11.08.05	NO CHANGE THIS SHEET
H	01.12.06	NO CHANGE THIS SHEET
I	10.14.08	NO CHANGE THIS SHEET
J	08.10.09	GENERAL REVISION

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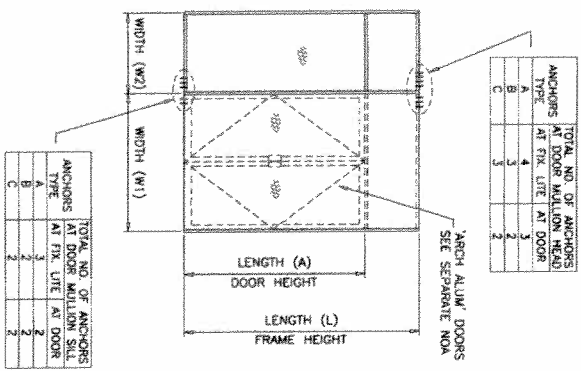
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1236 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8500 FAX. (305) 262-6978
STORE #88-42AA

MULLION LOAD CAPACITY - PSF AT DOUBLE DOOR WITH TRANSOM				MULLION LOAD CAPACITY - PSF AT DOUBLE DOOR WITH TRANSOM			
NOMINAL DIMS.		REINFORCING		REINFORCING		REINFORCING	
WIDTH (W1)	WIDTH (W2)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)
30"	30"	71.1	87.5	87.5	87.5	87.5	87.5
33"	33"	68.1	87.5	87.5	87.5	87.5	87.5
36"	36"	65.3	87.5	87.5	87.5	87.5	87.5
39"	39"	62.7	87.5	87.5	87.5	87.5	87.5
42"	42"	60.3	87.5	87.5	87.5	87.5	87.5
48"	48"	56.0	87.5	87.5	87.5	87.5	87.5
54"	54"	52.3	87.5	87.5	87.5	87.5	87.5
30"	96"	64.5	87.5	87.5	87.5	87.5	87.5
33"	102"	62.0	87.5	87.5	87.5	87.5	87.5
36"		59.6	87.5	87.5	87.5	87.5	87.5
39"		57.5	87.5	87.5	87.5	87.5	87.5
42"		55.5	87.5	87.5	87.5	87.5	87.5
48"		51.8	87.5	87.5	87.5	87.5	87.5
54"		48.6	87.5	87.5	87.5	87.5	87.5

MULLION LOAD CAPACITY - PSF AT DOUBLE DOOR WITH TRANSOM				MULLION LOAD CAPACITY - PSF AT DOUBLE DOOR WITH TRANSOM			
NOMINAL DIMS.		REINFORCING		REINFORCING		REINFORCING	
WIDTH (W1)	WIDTH (W2)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)
30"	30"	38.3	80.0	80.0	80.0	80.0	80.0
33"	33"	36.8	77.0	77.0	77.0	77.0	77.0
36"	36"	35.5	74.2	74.2	74.2	74.2	74.2
39"	39"	34.2	71.6	71.6	71.6	71.6	71.6
42"	42"	33.1	69.1	69.1	69.1	69.1	69.1
48"	48"	31.0	64.7	64.7	64.7	64.7	64.7
54"	54"	29.1	60.9	60.9	60.9	60.9	60.9
30"	96"	34.3	71.8	71.8	71.8	71.8	71.8
33"	120"	33.2	68.3	68.3	68.3	68.3	68.3
36"		32.1	67.1	67.1	67.1	67.1	67.1
39"		31.0	64.9	64.9	64.9	64.9	64.9
42"		30.1	62.9	62.9	62.9	62.9	62.9
48"		28.3	59.2	59.2	59.2	59.2	59.2

MULLION LOAD CAPACITY - PSF AT DOUBLE DOOR WITH TRANSOM				MULLION LOAD CAPACITY - PSF AT DOUBLE DOOR WITH TRANSOM			
NOMINAL DIMS.		REINFORCING		REINFORCING		REINFORCING	
WIDTH (W1)	WIDTH (W2)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)
30"	30"	85.0	87.5	87.5	87.5	87.5	87.5
33"	33"	81.3	87.5	87.5	87.5	87.5	87.5
36"	36"	78.0	87.5	87.5	87.5	87.5	87.5
39"	39"	74.9	87.5	87.5	87.5	87.5	87.5
42"	42"	72.1	87.5	87.5	87.5	87.5	87.5
48"	48"	67.0	87.5	87.5	87.5	87.5	87.5
54"	54"	62.6	87.5	87.5	87.5	87.5	87.5
30"	90"	77.0	87.5	87.5	87.5	87.5	87.5
33"		74.0	87.5	87.5	87.5	87.5	87.5
36"		71.3	87.5	87.5	87.5	87.5	87.5
39"		68.7	87.5	87.5	87.5	87.5	87.5
42"		66.3	87.5	87.5	87.5	87.5	87.5
48"		62.0	87.5	87.5	87.5	87.5	87.5
54"		58.2	87.5	87.5	87.5	87.5	87.5
30"	102"	67.0	87.5	87.5	87.5	87.5	87.5
33"		64.3	87.5	87.5	87.5	87.5	87.5
36"		61.8	87.5	87.5	87.5	87.5	87.5
39"		59.5	87.5	87.5	87.5	87.5	87.5
42"		57.3	87.5	87.5	87.5	87.5	87.5
48"		53.5	87.5	87.5	87.5	87.5	87.5
54"		50.1	87.5	87.5	87.5	87.5	87.5
30"	90"	60.5	87.5	87.5	87.5	87.5	87.5
33"		58.3	87.5	87.5	87.5	87.5	87.5
36"		56.2	87.5	87.5	87.5	87.5	87.5
39"		54.3	87.5	87.5	87.5	87.5	87.5
42"		52.5	87.5	87.5	87.5	87.5	87.5
48"		49.2	87.5	87.5	87.5	87.5	87.5
54"		46.3	87.5	87.5	87.5	87.5	87.5
30"	108"	54.0	87.5	87.5	87.5	87.5	87.5
33"		51.9	87.5	87.5	87.5	87.5	87.5
36"		49.9	87.5	87.5	87.5	87.5	87.5
39"		48.1	87.5	87.5	87.5	87.5	87.5
42"		46.5	87.5	87.5	87.5	87.5	87.5
48"		43.4	87.5	87.5	87.5	87.5	87.5
54"		40.8	87.5	87.5	87.5	87.5	87.5
30"	90"	48.5	87.5	87.5	87.5	87.5	87.5
33"		46.8	87.5	87.5	87.5	87.5	87.5
36"		45.2	87.5	87.5	87.5	87.5	87.5
39"		43.7	87.5	87.5	87.5	87.5	87.5
42"		42.4	87.5	87.5	87.5	87.5	87.5
48"		39.8	87.5	87.5	87.5	87.5	87.5
54"		37.6	87.5	87.5	87.5	87.5	87.5

MULLION LOAD CAPACITY - PSF AT DOUBLE DOOR WITH TRANSOM				MULLION LOAD CAPACITY - PSF AT DOUBLE DOOR WITH TRANSOM			
NOMINAL DIMS.		REINFORCING		REINFORCING		REINFORCING	
WIDTH (W1)	WIDTH (W2)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)	EXT (+) INT (-)
30"	30"	44.3	87.5	87.5	87.5	87.5	87.5
33"	33"	41.1	87.5	87.5	87.5	87.5	87.5
36"	36"	39.6	87.5	87.5	87.5	87.5	87.5
39"	39"	38.5	87.5	87.5	87.5	87.5	87.5
42"	42"	35.9	87.5	87.5	87.5	87.5	87.5
48"	48"	33.7	87.5	87.5	87.5	87.5	87.5
54"	54"	30.7	87.5	87.5	87.5	87.5	87.5
30"	90"	38.7	87.5	87.5	87.5	87.5	87.5
33"	114"	38.3	87.5	87.5	87.5	87.5	87.5
36"		37.1	87.5	87.5	87.5	87.5	87.5
39"		35.8	87.5	87.5	87.5	87.5	87.5
42"		34.8	87.5	87.5	87.5	87.5	87.5
48"		32.8	87.5	87.5	87.5	87.5	87.5
54"		31.0	87.5	87.5	87.5	87.5	87.5
30"	90"	38.9	87.5	87.5	87.5	87.5	87.5
33"		35.5	87.5	87.5	87.5	87.5	87.5
36"		34.3	87.5	87.5	87.5	87.5	87.5
39"		33.1	87.5	87.5	87.5	87.5	87.5
42"		32.0	87.5	87.5	87.5	87.5	87.5
48"		30.0	87.5	87.5	87.5	87.5	87.5
54"		28.5	87.5	87.5	87.5	87.5	87.5
30"	90"	33.0	87.5	87.5	87.5	87.5	87.5
33"	120"	31.9	87.5	87.5	87.5	87.5	87.5
36"		30.9	87.5	87.5	87.5	87.5	87.5
39"		29.0	87.5	87.5	87.5	87.5	87.5
42"		27.4	87.5	87.5	87.5	87.5	87.5
48"		27.4	87.5	87.5	87.5	87.5	87.5



TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD		TOTAL NO. OF ANCHORS AT FIX LITE AT DOOR	
A	B	C	D
4	3	3	2
3	2	2	2
2	2	2	2

TOTAL NO. OF ANCHORS AT DOOR MULLION HEAD		TOTAL NO. OF ANCHORS AT FIX LITE AT DOOR	
A	B	C	D
4	3	3	2
3	2	2	2
2	2	2	2

Eng. Javed Ahmad
 P.E. No. 17542
 CA No. 2008
 MARCH 28 2010

PROJECT REVISED
 as complying with the Florida
 Building Code
 Amendment No. 09-110-03
 Effective Date: 08/15/2014
 The following changes were made:
 1. Updated for 2007 FBC

no.	date	by	description
1	07.22.04		GENERAL REVISION
2	11.08.05		NO CHANGE THIS SHEET
3	01.13.08		NO CHANGE THIS SHEET
4	10.14.08		UPDATED FOR 2007 FBC
5	08.10.09		GENERAL REVISION

IMPACTWALL 3000/L-3000 WINDOW WALL SYS.
ARCH ALUMINUM & GLASS L.C.
 10200 N.W. 67th street
 TAMARAC, FL. 33321
 TEL. (800) 432-8132 FAX. (954) 724-9293

AL-FAROOQ CORPORATION
 ENGINEERS & PRODUCT DEVELOPMENT
 1235 S.W. 87 AVE
 MIAMI, FLORIDA 33174
 TEL. (305) 284-8100 FAX. (305) 262-6978
 STORE 98-42AA

Drawing no. **98-42**
 Scale: 1/2" = 1"
 Date: 12-09-08
 Dr. by: HAMD
 Sheet 6 of 11

ANCHOR LOAD CAPACITY - PSF									
NOMINAL DIMS. WIDTH (W) x FRAME HEIGHT	ANCHORS TYPE 'A'			ANCHORS TYPE 'B'			ANCHORS TYPE 'C'		
	A2	A3	A4	B2	B3	B4	C2	C3	C4
24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"	90.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"	80.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"	72.6	100.0	100.0	94.5	100.0	86.4	81.0	100.0	100.0
72"	60.3	90.8	100.0	78.8	100.0	81.0	100.0	100.0	100.0
24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"	96.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"	84.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
60"	74.9	100.0	100.0	97.5	100.0	100.0	100.0	100.0	100.0
72"	67.4	100.0	100.0	87.6	100.0	90.3	100.0	100.0	100.0
84"	61.3	91.9	100.0	79.8	100.0	82.1	100.0	100.0	100.0
96"	56.2	84.3	100.0	73.1	100.0	75.2	100.0	100.0	100.0
24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"	85.9	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"	78.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
54"	68.9	100.0	100.0	91.0	100.0	93.6	100.0	100.0	100.0
60"	62.9	94.4	100.0	81.9	100.0	84.3	100.0	100.0	100.0
72"	57.2	85.8	100.0	74.5	100.0	76.6	100.0	100.0	100.0
84"	52.4	78.7	100.0	68.3	100.0	70.2	100.0	100.0	100.0
96"	48.2	73.8	98.3	64.0	98.0	65.8	98.8	100.0	100.0
24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	92.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"	79.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
48"	69.4	100.0	100.0	80.4	100.0	82.9	100.0	100.0	100.0
54"	61.7	92.5	100.0	80.3	100.0	82.5	100.0	100.0	100.0
60"	55.5	83.3	100.0	72.3	100.0	74.4	100.0	100.0	100.0
72"	50.5	75.7	100.0	65.7	98.6	67.6	100.0	100.0	100.0
84"	46.3	69.4	92.5	60.2	90.4	62.0	92.9	100.0	100.0
96"	42.4	64.0	100.0	56.0	100.0	58.0	100.0	100.0	100.0
24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	87.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"	74.9	100.0	100.0	87.5	100.0	100.0	100.0	100.0	100.0
48"	65.6	98.3	100.0	85.3	100.0	87.8	100.0	100.0	100.0
54"	58.3	87.4	100.0	79.9	100.0	78.0	100.0	100.0	100.0
60"	52.4	78.7	100.0	68.3	100.0	70.2	100.0	100.0	100.0
72"	47.7	71.5	95.4	62.1	93.1	63.8	93.8	100.0	100.0

ANCHOR LOAD CAPACITY - PSF									
NOMINAL DIMS. WIDTH (W) x FRAME HEIGHT	ANCHORS TYPE 'A'			ANCHORS TYPE 'B'			ANCHORS TYPE 'C'		
	A2	A3	A4	B2	B3	B4	C2	C3	C4
24"	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
30"	99.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
36"	82.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
42"	71.0	100.0	100.0	92.4	100.0	95.0	100.0	100.0	100.0
48"	62.1	93.2	100.0	80.8	100.0	83.2	100.0	100.0	100.0
54"	55.2	82.8	100.0	71.9	100.0	73.9	100.0	100.0	100.0
60"	49.7	74.5	99.4	64.7	97.0	66.5	98.6	100.0	100.0
72"	44.4	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
84"	78.7	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
96"	67.4	100.0	100.0	87.8	100.0	90.3	100.0	100.0	100.0
108"	59.0	88.5	100.0	76.8	100.0	79.0	100.0	100.0	100.0
120"	52.4	78.7	100.0	68.3	100.0	70.2	100.0	100.0	100.0
132"	47.2	70.8	94.4	61.4	92.2	63.2	94.8	100.0	100.0

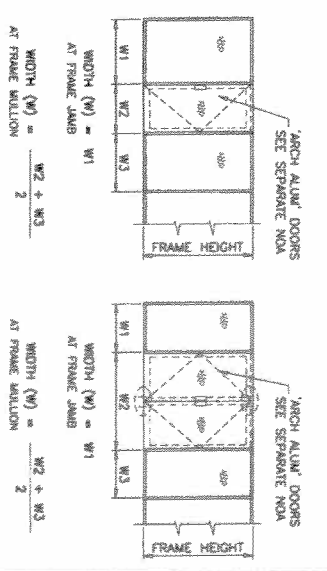
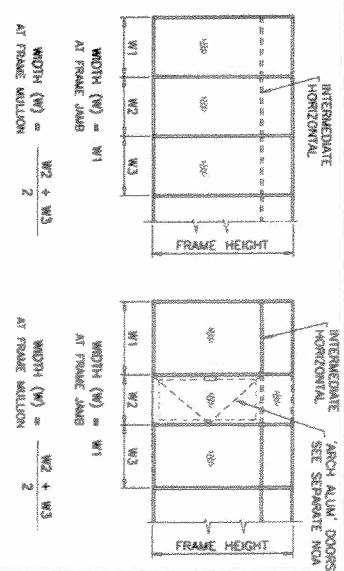
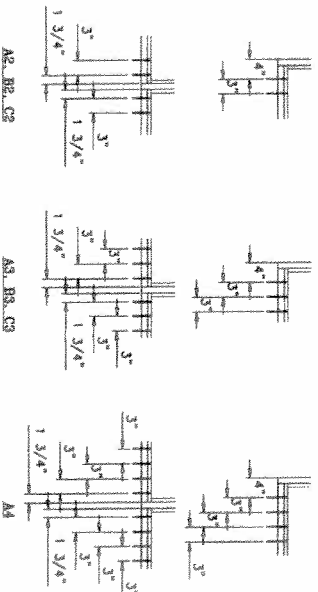
ANCHORS TYPES SEE SHEET 9 FOR DESCRIPTION

A2 = (2) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
A3 = (3) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION
A4 = (4) ANCHORS TYPE 'A' AT JAMB OR EACH SIDE OF MULLION

B2 = (2) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
B3 = (3) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION
B4 = (4) ANCHORS TYPE 'B' AT JAMB OR EACH SIDE OF MULLION

C2 = (2) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION
C3 = (3) ANCHORS TYPE 'C' AT JAMB OR EACH SIDE OF MULLION

ALL OTHER ANCHORS TO BE SPACED AS PER ELEVATION.



Eng. JAWAD FAROOQ
P.L.A. No. 70582
C.A.N. 5538

MAR 29 2010

PROJECT SERVICES
on collaborating with the Provider
Building Co. Inc.
Residential Building
02-118-0304

date:	12-09-08
scale:	1/2" = 1'
dr. by:	HAMD
chk. by:	

no.	date	by	description
1	07.23.04		GENERAL REVISION
2	11.08.05		NO CHANGE THIS SHEET
3	01.12.08		CHART REV.
4	10.14.08		UPDATED FOR 2007 FBC
5	08.10.09		GENERAL REVISION

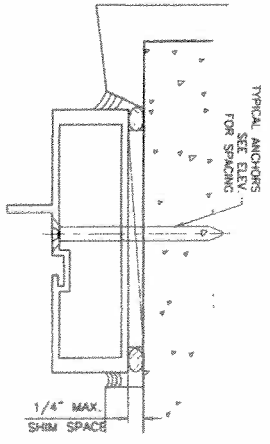
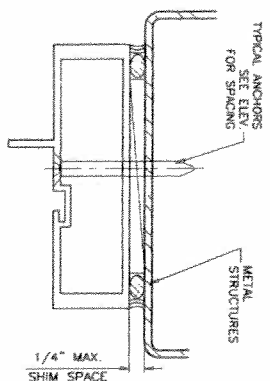
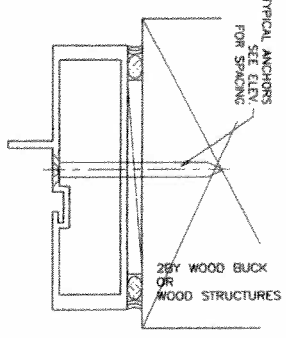
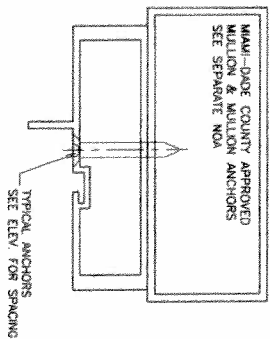
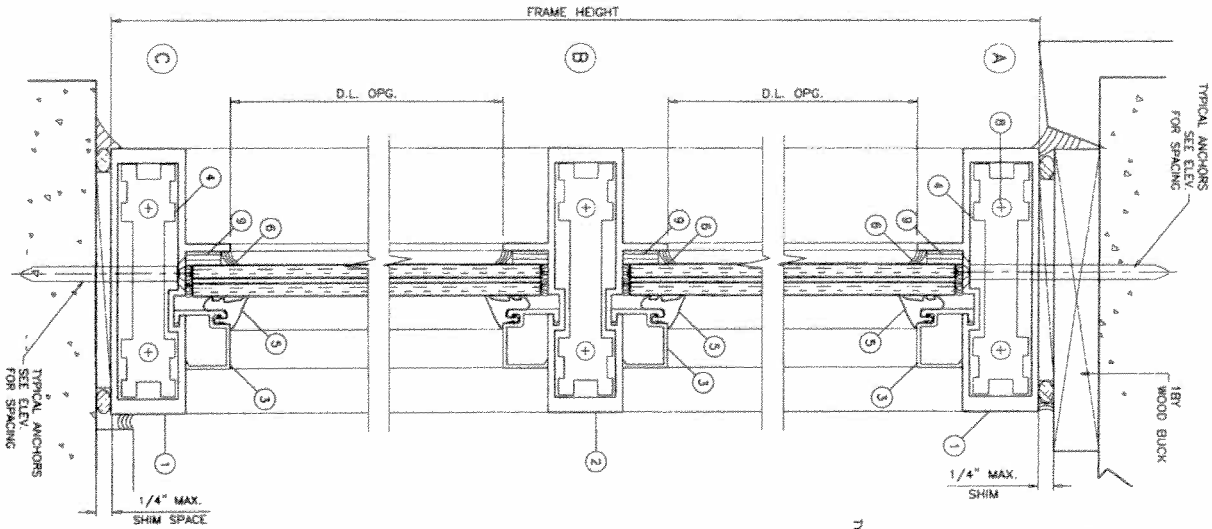
IMPACTWALL 3000/L-3000 WINDOW WALL SYS

ARCH ALUMINUM & GLASS L.C.
10200 N.W. 67th street
TAMARAC, FL 33321
TEL. (800) 432-8132 FAX. (954) 724-9283

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

STORE 95-42AA

EXTERIOR OR INTERIOR



THIS PRODUCT MAY BE INSTALLED INSIDE OR OUTSIDE GLAZED

WOOD BLOCKS AND METAL STRUCTURE NOT BY ARCH ALUM. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

TYPE 'A' - 1/4" DIA. ULTRACON BY 'ECCO' (F_u=177 KSI, F_y=155 KSI) INTO 2BY WOOD BUCKS OR WOOD STRUCTURES 1-3/8" MIN. PENETRATION INTO WOOD THRU 1BY BUCKS INTO CONC. OR MASONRY 1-1/4" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'B' - 1/4" DIA. ULTRACON BY 'ECCO' (F_u=177 KSI, F_y=155 KSI) DIRECTLY INTO CONC. OR MASONRY 1-5/8" MIN. EMBED INTO CONC. OR MASONRY

TYPE 'C' - #14 SMS OR SELF-DRILLING SCREWS (SPACE 2 CRS) INTO MIAMI-DADE COUNTY APPROVED MULLIONS (1/8" THK. MIN.) INTO METAL STRUCTURES STEEL : 12 GA. MIN. (F_y = 36 KSI MIN.) ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.) (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 2-1/2" MIN.
INTO WOOD STRUCTURE = 1" MIN.
INTO METAL STRUCTURE = 3/4" MIN.

CONCRETE f_c = 3000 PSI MIN.
C-90 HOLLOW/FILLED BLOCK f_m = 2000 PSI MIN.

SEALANTS:

GLAZING BEAD AT FRAME SILL SEALED TO GLASS WITH DOW CORNING 995.
FRAME CORNERS SEALED WITH DOW CORNING 999.

Eng: AMAD AMAD
P.L.A. CIVIL 20562
C.A.N. 20562

ARCH ALUMINUM & GLASS L.C.
10200 N.W. 67th Street
TAMARAC, FL 33321
TEL: (800) 432-8132 FAX: (954) 724-9293

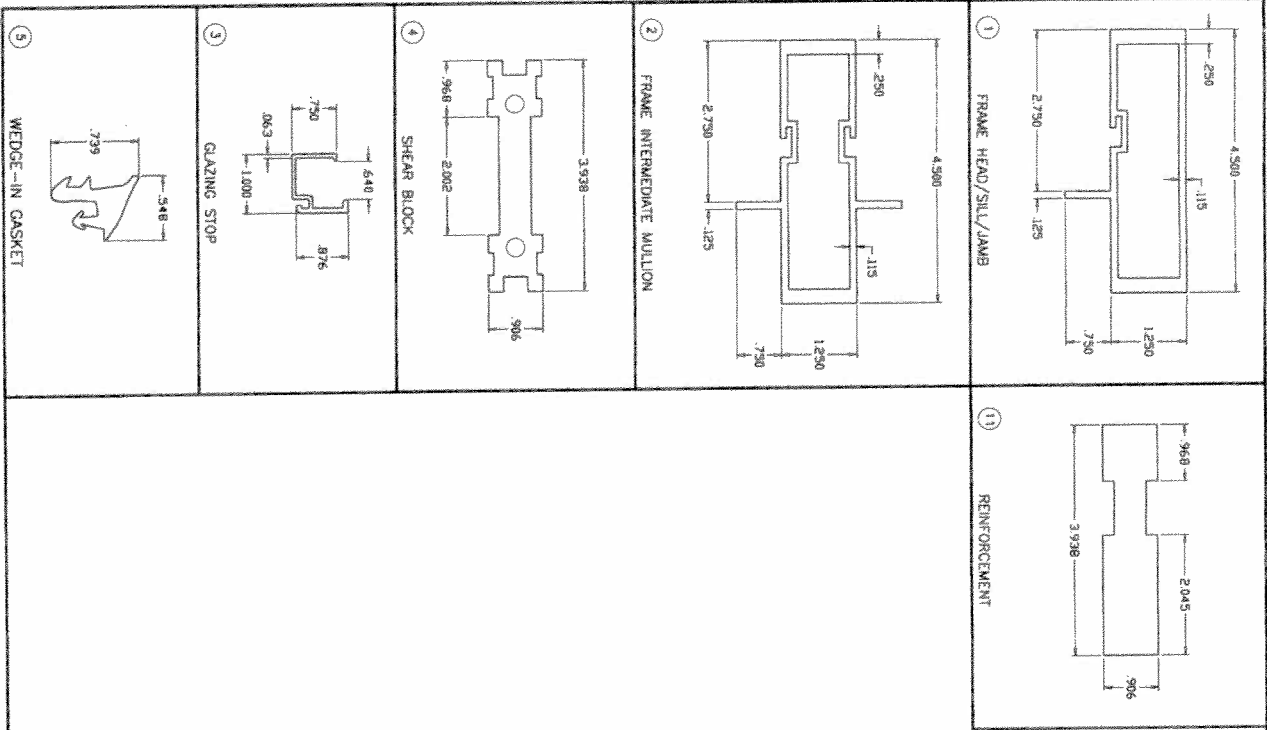
DATE: 12-09-98
SCALE: 1/2" = 1"
DR. BY: HAMD
CHK. BY:

no.	date	description
0	07.22.04	GENERAL REVISION
1	11.08.05	METAL EDGE DET. ADDED
2	01.13.06	NO CHANGE THIS SHEET
3	10.14.06	UPDATED FOR 2007 FBC
4	08.10.06	GENERAL REVISION

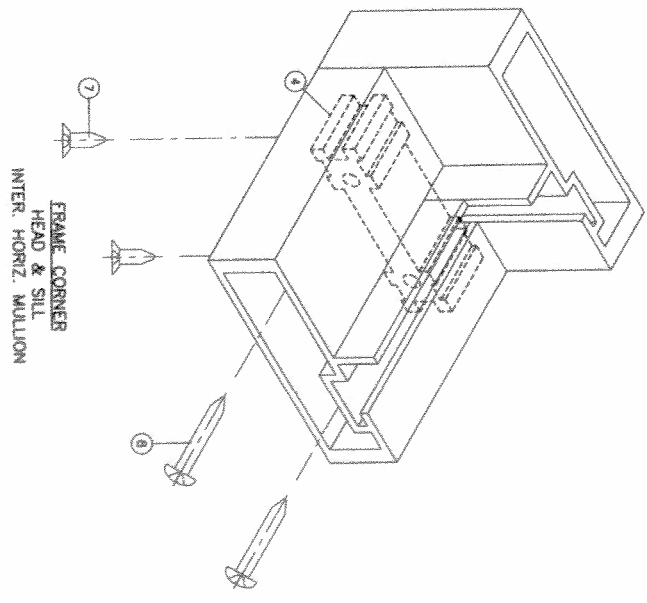
IMPACTWALL 3000/L-3000 WINDOW WALL SYS.
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MIAMI, FLORIDA 33174
TEL. (305) 284-8100 FAX. (305) 282-8978

Sheet 9 of 11
98-42
STORE 98-42AA



ITEM NO.	PART NUMBER	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	3001 (400-356)	AS REQD.	FRAME HEAD/SILL/JAMB	6063-T6	ARCH ALUM & GLASS CO.
2	3002	AS REQD.	INTERMEDIATE MULLION (VERT./HORIZ.)	6063-T6	ARCH ALUM & GLASS CO.
3	3003	AS REQD.	GLAZING STOP	6063-T6	ARCH ALUM & GLASS CO.
4	AS-3004	1/ CORNER	SHEAR BLOCK	6063-T6	1" LONG
5	H-63	AS REQD.	GLAZING GASKET	EPDM TO 25	UNIVERSAL RUBBER CO.
6	DC995	AS REQD.	GLAZING COMPOUND	SILICONE	DOW CORNING
7	#12-24 X 3/4"	Z/ CORNER	FLAT HEAD THREAD CUTTING SCREWS	-	-
8	1/4-20 X 1-1/2"	Z/ CORNER	FLAT HEAD MACHINE SCREWS	-	-
9	V2100	-	ADHESIVE FOAM TAPE	-	HORTON
9A	V2200	-	ADHESIVE FOAM TAPE	-	SMART CORIAN PLASTICS
10	HE20	AS REQD.	SETTING BLOCK (1/2" X 1/8" X 4" LONG)	REINFORCING	NORTON
10A	HE20	AS REQD.	SETTING BLOCK (1/2" X 1/4" X 4" LONG)	REINFORCING	NORTON
11	3004A	AS REQD.	ALUMINUM REINFORCEMENT	6063-T6	ARCH ALUM & GLASS CO.



Eng. JAMES ARNOLD
 P.L. # 20032
 C.A.S. 5/18
 MAR 29 2010

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Approved by the
 State of Florida
 PROFESSIONAL ENGINEER
 JAMES ARNOLD
 No. 10146
 State of Florida

no.	date	by	description
F	07.22.04		GENERAL REVISION
G	11.08.05		ALLOY REV.
H	01.12.08		MATERIAL LIST REV.
I	10.14.08		NO CHANGE THIS SHEET
J	08.10.09		GENERAL REVISION

IMPACTWALL 3000/L-3000 WINDOW WALL SYS.
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 TEL. (305) 264-8100 FAX. (305) 262-6978
 STORE 98-42AA

date: 12-09-98
 scale: 1/2" = 1"
 dr. by: HAMD
 chg. by:
 drawing no. 98-42
 sheet 11 of 11