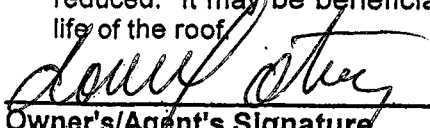


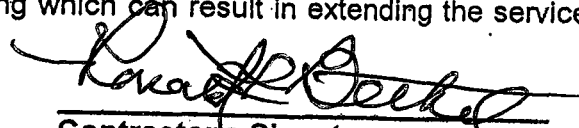
**SECTION 1524 [Florida Building Code]
HIGH VELOCITY HURRICANE ZONES - REQUIRED OWNERS NOTIFICATION
FOR ROOFING CONSIDERATIONS**

§1524.1 - Scope. As it pertains to this section, it is the responsibility of the roofing contractor to provide the owner with the required roofing permit, and to explain to the owner the content of this section. The provisions of Chapter 15 of the Florida Building Code, Building govern the minimum requirements and standards of the industry for roofing system installations. Additionally, the following items should be addressed as part of the agreement between the owner and the contractor. The owner's initial in the designated space indicates that the item has been explained.

- ☒ 1. **Aesthetics-Workmanship:** The workmanship provisions of Chapter 15 (High Velocity Hurricane Zone) are for the purpose of providing that the roofing system meets the wind resistance and water intrusion performance standards. Aesthetics (appearance) are not a consideration with respect to workmanship provisions. Aesthetic issues such as color or architectural appearance, that are not part of a zoning code, should be addressed as part of the agreement between the owner and the contractor.
- ☒ 2. **Renailing Wood Decks:** When replacing roofing, the existing wood roof deck may have to be renailed in accordance with the current provisions of Chapter 16 (High Velocity Hurricane Zones) of the [Code]. (The roof deck is usually concealed prior to removing the existing roof system).
- ☒ 3. **Common Roofs:** Common roofs are those which have no visible demarcation between neighboring units (i.e., townhouses, condominiums, etc.). In buildings with common roofs, the roofing contractor and/or owner should notify the occupants of adjacent units of roofing work to be performed.
- ☒ 4. **Exposed ceilings:** Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance; therefore, roofing nail penetrations of the underside of the decking may not be acceptable. The [Code] provides [an alternate for] maintaining this appearance.
- ☒ 5. **Ponding Water:** The current roof system and/or deck of the building may not drain well and may cause water to pond (accumulate) in low-lying areas of the roof. Ponding may be an indication of structural distress and may require the review of a professional structural engineer. Ponding may shorten the life expectancy and performance of the new roofing system. Ponding conditions may not be evident until the original roofing system is removed. Ponding conditions should be corrected.
- ☒ 6. **Overflow Scuppers (wall outlets):** It is required that rainwater flow off of the roof. If the roof is not overloaded from a buildup of water. Perimeter/edge walls or other roof extensions may block this discharge if overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the requirements of: [Chapter 16].
- ☒ 7. **Ventilation:** Most roof structures should have some ability to vent natural air flow through the interior of the structural assembly (the building itself). The existing amount of attic ventilation shall not be reduced. It may be beneficial to consider additional venting which can result in extending the service life of the roof.


Owner's/Agent's Signature

8/11/06
Date


Contractor's Signature

Section A (General Information)

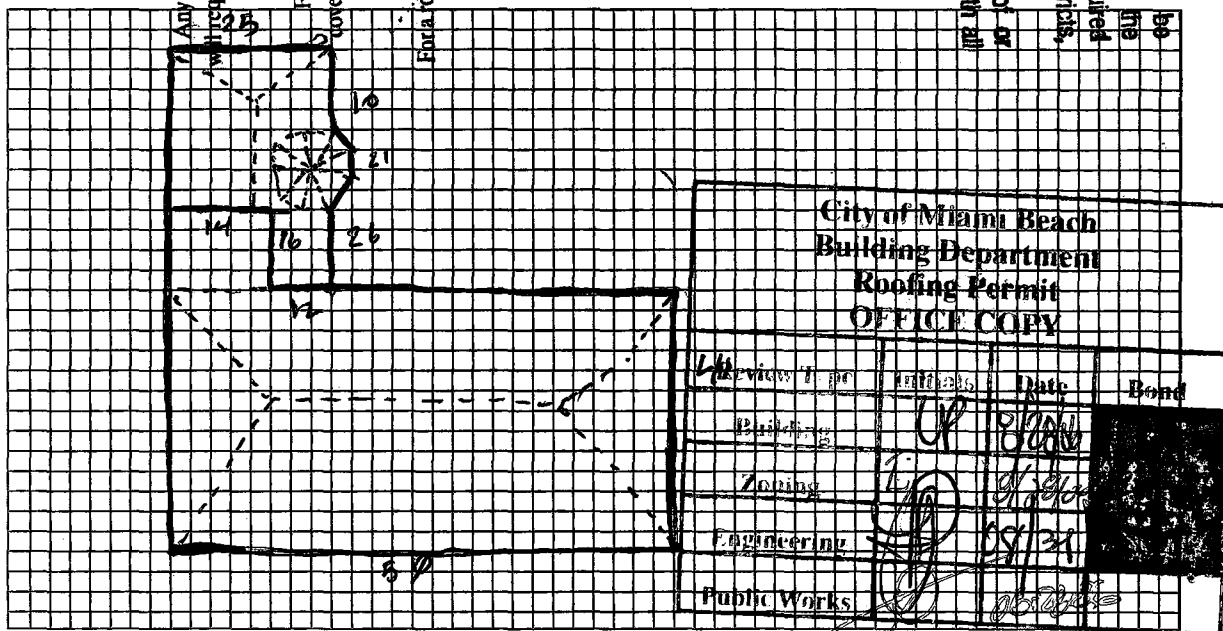
Job Address 15 east San Marino Miami Beach Fl, 33140

- ☐ Low Slope
- ☐ Asphaltic Shingles
- ☐ Mechanically Fastened Tile
- ☐ Metal Panel/Shingles
- ☒ Mortar/Adhesive Set Tile
- ☐ Wood Shingles/Shakes
- ☐ Prescriptive BUR-RAS 150

☐ New Roof ☒ Reroofing ☐ Recovering ☐ Repair

Steep Sloped Roof Area (SF) 4000 sf.

Sketch Roof Plan: Illustrate all levels and sections, roof drains, scuppers, overflow scuppers and overflow drain. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.



* NO Mech

48 HOURS PRIOR TO EXCAVATING
CONTRACTOR SHALL CALL FOR LOCATION
OF UNDERGROUND UTILITIES
SUNSHINE ONE-CALL 1-800-432-4770
CITY OF MIAMI BEACH 305-673-7080

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PUBLIC WORKS
PLAN REVIEW NOTICE
Phone 305-673-7080 Fax 305-673-7028

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR
OBTAINING BUILDING PERMITS ONLY.

All construction and/or use of equipment in the right-of-way and/or
easements, requires a separate Public Works Department permit prior
to start of construction.

Permit Requirements: Proof of existing sidewalk/swale area conditions
(pictures) and/or posting of sidewalk/roadway bonds
(Public Works Inspection of the right-of-way will be required prior to
final sign-off on the C.C. / C.O., or the release of bonds.)

Approved/Reviewed By: [Signature] Date: 6/18/06

Florida Building Code Edition 2004
High Velocity Hurricane Zone Uniform Permit Application Form

Section D (Steep Sloped Roof System)

Roof System Manufacturer: <u>Monier Lifetime, LLC</u>
Notice of Acceptance Number: <u>02-1211.08</u>
Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations): Pmax1: <u>~~N/A~~ -45</u> Pmax2: <u>~~N/A~~ -45.1</u> Pmax3: <u>~~N/A~~ -45.1</u>
Maximum Design Pressure (From the NOA Specific System): <u>118.9</u>
Method of Tile Attachment: <u>Tile Bond Roof Tile Adhesive</u>

Steep Sloped System Description

Roof Slope: <u>4 : 12</u>	Deck Type: <u>1X6 Decking Wood</u>
	Type Underlayment: <u>30 #</u>
	Insulation: <u>N/A</u>
	Fire Barrier: <u>N/A</u>
Ridge Ventilation? <u>N/A</u>	Fastener Type & Spacing: <u>1 1/4 Hank Shank nails w/ Tin Tags</u>
	Adhesive Type: <u>Hot Tar type ~~IF~~ Poly Pro</u>
	Type Cap Sheet: <u>90 #</u>
Mean Roof Height: <u>12</u>	Roof Covering: <u>Monier Lifetime, LLC</u>
	Type & Size Drips Edge: <u>3K3 gal 20GA</u>

Florida Building Code Edition 2002

High Velocity Hurricane Zone Uniform Permit Application Form.

Section E (Tile Calculations)

For Moment based tile systems, choose wither Method 1 or 2. Compare the values for M_t with the values from M_r . If the M_r values are greater than or equal to the M_r values, for each area of roof, then the tile attachment method is acceptable.

Method 1 "Moment Based Tile Calculations Per RAS 127"

$$\begin{array}{llllllll}
 \text{(P1: } 45 \text{ X } \lambda \text{ } 24 \text{ equals } 108 \text{) minus } Mg: 5.9 \text{ equals } Mr1: 118.9 & NOA & Mf & 118.9 \\
 \text{(P2: } 951 \text{ X } \lambda \text{ } 24 \text{ equals } 22824 \text{) minus } Mg: 5.9 \text{ equals } Mr1: 17.824 & NOA & Mf & 118.9 \\
 \text{(P3: } 951 \text{ X } \lambda \text{ } 24 \text{ equals } 22824 \text{) minus } Mg: 5.9 \text{ equals } Mr1: 17.824 & NOA & Mf & 118.9
 \end{array}$$

Method 2 "Simplified Tile Calculation Per Table Below"

Required Moment of Resistance (M_r) From below: 28.9 NOA M_r 118.9

M_r Required Moment Resistance*

Mean Roof Height Roof Slope →	15'	20'	25'	30'	40'
2:12	30.7	33.4	35.7	37.7...	40.7
3:12	28.7	31.3	33.4	35.2 ..	38.1
4:12	26.6	28.9	30.9	32.6	35.2
5:12	24.5	26.7	28.5	30.0	32.5
6:12	22.5	24.5	26.2	27.6	29.8
7:12	20.8	22.6	24.1	25.4	27.5

* Must be used in conjunction with a list of moments based tile system endorsed by the Broward County Board of Rules and Appeals.

For Uplift based tile system use Method 3. Compared the values for F' with the values for F_r . If the F' value are greater than or equal to the F_r values, for each area of the roof, then the tile attachment method is acceptable.

Method 3 "Uplift Based Tile Calculations Per RAS 127"

$$\begin{array}{llllllllll}
 \text{(P1: } \text{ } \text{ X } l: \text{ } \text{ equals } \text{ } \text{ X } w: \text{ } \text{ equals } \text{ } \text{) minus } W: \text{ } \text{ X } \cos \theta: \text{ } \text{ equals } Fr1: \text{ } \text{ NOA } F' \text{ } \\
 \text{(P2: } \text{ } \text{ X } l: \text{ } \text{ equals } \text{ } \text{ X } w: \text{ } \text{ equals } \text{ } \text{) minus } W: \text{ } \text{ X } \cos \theta: \text{ } \text{ equals } Fr1: \text{ } \text{ NOA } F' \text{ } \\
 \text{(P3: } \text{ } \text{ X } l: \text{ } \text{ equals } \text{ } \text{ X } w: \text{ } \text{ equals } \text{ } \text{) minus } W: \text{ } \text{ X } \cos \theta: \text{ } \text{ equals } Fr1: \text{ } \text{ NOA } F' \text{ }
 \end{array}$$

Where to Obtain Information

DESCRIPTION	SYMBOL	WHERE TO FIND
Design Pressure	P1, P2 or P3	RAS 127 Table 1 or by an engineering analysis prepared by PE based on ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	θ	Job Site
Aerodynamic Multiplier	λ	NOA
Restoring Moment due to Gravity	M_g	NOA
Attachment Resistance	M_r	NOA
Required Moment Resistance	M_r	Calculated
Minimum Attachment Resistance	F'	NOA
Required Uplift Resistance	F_r	Calculated
Average Tile Weight	W	NOA
Tile Dimensions	l = length w = width	NOA

All calculations must be submitted to the Building Official at the time of permit application.

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

OFFICE OF ACCEPTANCE (NOA)

Under Lifetile, Inc.
135 NW 20th Street
Boca Raton, FL 33431

SCORE

The NOA being issued under the applicable codes and regulations governing the construction materials. The documents submitted have 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 High-Crookley Hurricane Zone of the Florida Building Code.

DESCRIPTION: Atlantis Shake & Slate Concrete Roof Tile

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, date 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 distributor and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 6.

The submitted documentation was reviewed by Frank Zuloaga, RRC



NOA No.: 02-1211.08
Expiration Date: 12/16/07
Approval Date: 01/09/03
Page 1 of 6

Frank Zuloaga
02/28/08

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Flat Profile Roofing Tiles
Material: Concrete

1. SCOPE

This renews a system using Monier Lifetile Atlantis Shake & Slate Concrete Roof Tile, as manufactured Monier Lifetile LLC and described in Section 2 of this Notice of Acceptance. For locations where the pressure requirements, as determined by applicable Building Code does not exceed the design pressure values obtained by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

2. PRODUCT DESCRIPTION

<u>Manufactured by</u> <u>Applicant</u>	<u>Dimensions</u>	<u>Test</u> <u>Specifications</u>	<u>Product</u> <u>Description</u>
Monier Lifetile Atlantis Shake and Slate Tile	l = 15" w = 10 ³ / ₈ " 1 ¹ / ₄ " thick	PA 112	Flat, interlocking, high pressure extruded concrete shake and slate roof tile equipped with two nail holes. For direct deck, mortar or adhesive set applications.
Trim Pieces	l = varies w = varies varying thickness	PA 112	Accessory trim, concrete roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.

2.1 SUBMITTED EVIDENCE:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Redland Technologies	7161-03 Appendix III	Static Uplift Testing PA 102 & PA 102(A)	Dec. 1991
The Center for Applied Engineering, Inc.	94-060A 94-084	Static Uplift Testing PA 101 (Mortar Set) (Adhesive Set)	March, 1994 May 1994
The Center for Applied Engineering, Inc.	25-7094-2	Static Uplift Testing PA 102 (4" Headlap, Nails, Direct Deck, New Construction)	Oct. 1994
The Center for Applied Engineering, Inc.	25-7094-8	Static Uplift Testing PA 102 (4" Headlap, Nails, Battens)	Oct. 1994
The Center for Applied Engineering, Inc.	25-7094-5	Static Uplift Testing PA 102 (4" Headlap, Nails, Direct Deck, Recover/Reroof)	Oct. 1994



NOA No.: 02-1211.08
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Approval Date: 01/09/03
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<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
The Center for Applied Engineering, Inc.	25-7183-6	Static Uplift Testing PA 102 (2 Quik-Drive Screws, Direct Deck)	Feb. 1995
The Center for Applied Engineering, Inc.	25-7183-5	Static Uplift Testing PA 102 (2 Quik-Drive Screws, Battens)	Feb. 1995
The Center for Applied Engineering, Inc.	25-7214-1	Static Uplift Testing PA 102 (1 Quik-Drive Screw, Direct Deck)	March, 1995
The Center for Applied Engineering, Inc.	25-7214-5	Static Uplift Testing PA 102 (1 Quik-Drive Screw, Battens)	March, 1995
Redland Technologies	7161-03 Appendix II	Wind Tunnel Testing PA 108 (Nail-On)	Dec. 1991
Redland Technologies	Letter Dated Aug. 1, 1994	Wind Tunnel Testing PA 108 (Nail-On)	Aug. 1994
Redland Technologies	P0631-01	Wind Tunnel Testing PA 108 (Mortar Set)	July 1994
Redland Technologies	P0402	Withdrawal Resistance Testing of screw vs. smooth shank nails	Sept. 1993
The Center for Applied Engineering, Inc. Professional Service Industries, Inc.	Project No. 307025 Test #MDC-77 224-47099	Wind Driven Rain PA 100 Physical Properties PA 112	Oct. 1994 Sept. 1994
Celotex Corporation Testing Service	520109-1 520111-4 520191-1	Static Uplift Testing PA 101	Dec. 1998 March 1999
Walker Engineering, Inc.	Calculations	Aerodynamic Multiplier	March 1999
Walker Engineering, Inc.	Calculations	Moment of Gravity	Sept. 1999
Walker Engineering, Inc.	Calculations	25-7094	February 1996
Walker Engineering, Inc.	Calculations	25-7496	April 1996
Walker Engineering, Inc.	Calculations	25-7584 25-7804b-8 25-7804-4 & 5 25-7848-6	December 1996
Walker Engineering, Inc.	Calculations	25-7183	March 1995
Walker Engineering, Inc.	Calculations	Aerodynamic Multipliers	April 1999
Walker Engineering, Inc.	Calculations	Two Patty Adhesive Set System	April 1999



NOA No.: 02-1211.08
Expiration Date: 12/16/07
Approval Date: 01/09/03
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3. LIMITATIONS

- 3.1 Fire classification is not part of this acceptance.
- 3.2 For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with RAS 106.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Building Code Compliance Office for review.
- 3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
- 3.7 May be installed on slopes 7:12 and greater with a minimum of two screws.

4. INSTALLATION

- 4.1 Monier Lifetile Atlantis Shake and Slate Concrete Roof Tile and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119, and RAS 120.
- 4.2 Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
Monier Lifetile Atlantis Shake & Slate Tile	8.5	1.25	0.865

Table 2: Aerodynamic Multipliers - λ (ft ³)	
Tile Profile	λ (ft ³) Direct Deck Application
Monier Lifetile Atlantis Shake & Slate Tile	0.24

Table 3: Restoring Moments due to Gravity - M_g (ft-lbf)					
Tile Profile	3":12"	4":12"	5":12"	6":12"	7":12" or greater
Monier Lifetile Atlantis Shake & Slate Tile	Direct Deck 6.0	Direct Deck 5.9	Direct Deck 5.8	Direct Deck 5.6	Direct Deck 5.5



NOA No.: 02-1211.08
 Expiration Date: 12/16/07
 Approval Date: 01/09/03
 Page 4 of 6

Table 4: Attachment Resistance Expressed as a Moment - M_r (ft-lbf) for Nail-On Systems				
Tile Profile	Fastener Type	Direct Deck (min. 15/32" plywood)	Direct Deck (min. 19/32" plywood)	Battens
Monier Lifetile Atlantis Shake & Slate Tile	2-10d Ring Shank Nails	30.9	38.1	17.2
	1-10d Smooth or Screw Shank Nail	7.3	9.8	4.9
	2-10d Smooth or Screw Shank Nails	14.0	18.8	7.4
	1 #8 Screw	30.8	30.8	18.2
	2 #8 Screw	51.7	51.7	24.4
	1-10d Smooth or Screw Shank Nail (Field Clip)	24.3	24.3	24.2
	1-10d Smooth or Screw Shank Nail (Eave Clip)	19.0	19.0	22.1
	2-10d Smooth or Screw Shank Nails (Field Clip)	35.5	35.5	34.8
	2-10d Smooth or Screw Shank Nails (Eave Clip)	31.9	31.9	32.2
	2-10d Ring Shank Nails ¹	50.3	65.5	48.3
1 Installation with a 4" tile headlap and fasteners are located a min. of 2 1/2" from head of tile.				

Table 5: Attachment Resistance Expressed as a Moment M_r (ft-lbf) for Two Patty Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
Monier Lifetile Atlantis Shake & Slate Tile	Adhesive	31.3 ³
2 See manufactures component approval for installation requirements.		
3 Flexible Products Company TileBond Average weight per patty 13.9 grams. Polyfoam Product, Inc. Average weight per patty 8 grams.		

Table 5A: Attachment Resistance Expressed as a Moment - M_r (ft-lbf) for Single Patty Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
Monier Lifetile Atlantis Shake & Slate Tile	PolyPro™	118.9 ⁴
	PolyPro™	40.4 ⁵
4 Large patty placement of 45 grams of PolyPro™.		
5 Medium patty placement of 24 grams of PolyPro™.		

Table 5B: Attachment Resistance Expressed as a Moment - M_r (ft-lbf) for Mortar or Adhesive Set Systems		
Tile Profile	Tile Application	Attachment Resistance
Monier Lifetile Atlantis Shake & Slate Tile	Mortar Set ^b	39.0



NOA No.: 02-1211.08
Expiration Date: 12/16/07
Approval Date: 01/09/03
Page 5 of 6

5. LABELING

All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo, or following statement: "Miami-Dade County Product Control Approved".

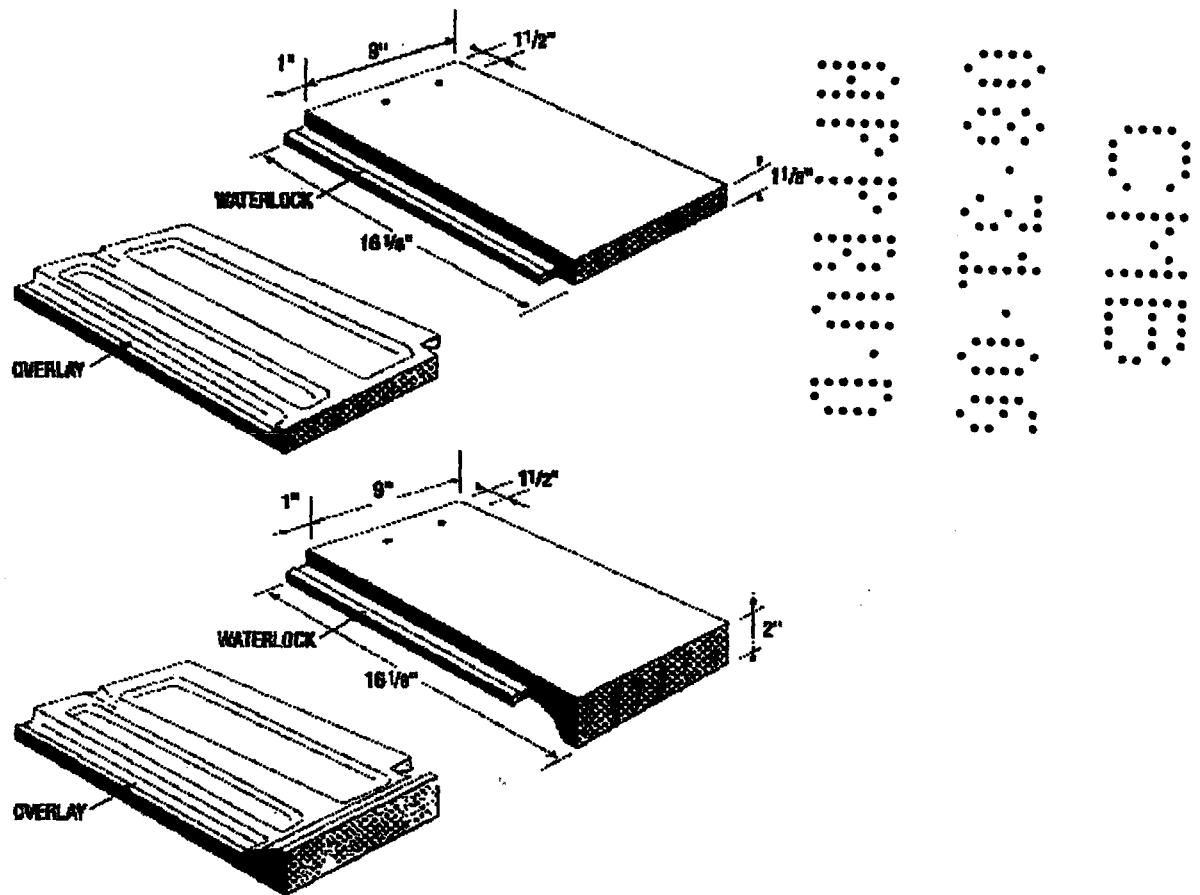
6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance.

6.1.2 Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this system.

PROFILE DRAWINGS



MONIER LIFETILE ATLANTIS SHAKE & SLATE CONCRETE ROOF TILE

END OF THIS ACCEPTANCE



NOA No.: 02-1211.08
Expiration Date: 12/16/07
Approval Date: 01/09/03
Page 6 of 6

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE BUILDING
140 WEST FLAGLER STREET, SUITE 603
MIAMI, FLORIDA 33132-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

Polyform Products, Inc.
11715 Doudreaux Road
Tomball, TX 77375

SCOPE:

This NOA is being issued for the applicable codes and regulations governing the use of construction materials. The documentation submitted has been reviewed by the BCCO and accepted by the Building Code and Product Review Committee 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 BCCO (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. BCCO reserves the right to revoke this acceptance, if it is determined by BCCO 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Polypro® AH160

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been a 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 the 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, the entire NOA shall be done in its entirety.

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

This NOA renews NOA No.01-0521.02 and consists of pages 1 through 7
The submitted documentation was reviewed by Jorge L. Acebo.

[Handwritten signature]



[Handwritten signature]

08/28/00

NOA No.: 06-0201.02
Expiration Date: 05/10/11
Approval Date: 04/13/06
Page 1 of 7

NOTICE: In addition to the requirement of this permit, there may be additional restrictions applicable to this property. These may be found in the public records of this County and there may be additional permits required from other governmental entities, such as water management districts, state and local laws, rules and regulations, or federal agencies, or any combination thereof. The City of Miami Beach assumes no responsibility for accuracy of or results from these plans which are approved subject to compliance with all applicable laws, rules and regulations.

ROOFING ASSEMBLY APPROVAL:

Category: Roofing
Sub Category: Roof tile adhesive
Materials: Polyurethane

SCOPE:

This approves Polypro® AH160 as manufactured by Polyfoam Products, Inc. as described in Section 2 of this Notice of Acceptance. For the locations where the design pressure requirements, as determined by applicable building code, does not exceed the design pressure values obtained by calculations in compliance with Roofing Application Standard RAS 127, for use with approved flat, low, and high profile roof tiles system using Polypro® AH 160. Where the attachment calculations are done as a moment based system for single patty placement, and as an uplift based system for double patty systems

PRODUCTS MANUFACTURED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Polypro® AH160	N/A	TAS 101	Two component polyurethane foam adhesive
Foampro® RTF1000	N/A		Dispensing Equipment
ProPack® 30 & 100	N/A		Dispensing Equipment

PRODUCTS MANUFACTURED BY OTHERS:

Any Miami-Dade County Product Control Accepted Roof Tile Assembly having a current NOA which list moment resistance values with the use of Polypro AH160 roof tile adhesive.

PHYSICAL PROPERTIES:

<u>Property</u>	<u>Test</u>	<u>Results</u>
Density	ASTM D 1622	1.6 lbs./ft. ³
Compressive Strength	ASTM D 1621	18 PSI Parallel to rise 12 PSI Perpendicular to rise
Tensile Strength	ASTM D 1623	28 PSI Parallel to rise
Water Absorption	ASTM D 2127	0.08 Lbs./Ft ²
Moisture Vapor Transmission	ASTM E 96	3.1 Perm / Inch
Dimensional Stability	ASTM D 2126	+0.07% Volume Change @ -40° F., 2 weeks +6.0% Volume Change @158°F., 100% Humidity, 2 weeks
Closed Cell Content	ASTM D 2856	86%

Note: The physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.



NOA No.: 06-0201.02
Expiration Date: 05/10/11
Approval Date: 04/13/06
Page 2 of 7

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Center for Applied Engineering	#94-060	TAS 101	04/08/94
	257818-1PA	TAS 101	12/16/96
	25-7438-3	SSTD 11-93	10/25/95
	25-7438-4		
	25-7438-7	SSTD 11-93	11/02/95
	25-7492	SSTD 11-93	12/12/95
Miles Laboratories Polymers Division	NB-589-631	ASTM D 1623	02/01/94
 Ramtech Laboratories, Inc.	 9637-92	 ASTM E 108	 04/30/93
Southwest Research Institute	01-6743-011	ASTM E 108	11/16/94
	01-6739-062b[1]	ASTM E 84	01/16/95
Trinity Engineering	7050.02.96-1	TAS 114	08/14/96
Celotex Corp. Testing Services	528454-2-1	TAS 101	10/23/98
	528454-9-1		
	528454-10-1		
	520109-1	TAS 101	12/28/98
	520109-2		
	520109-3		
	520109-6		
	520109-7		
	520191-1	TAS 101	03/02/99
	520109-2-1		

LIMITATIONS:

1. Fire classification is not part of this acceptance. Refer to the Prepared Roof Tile Assembly for fire rating.
2. Polypro® AH160 shall solely be used with flat, low, & high tile profiles.
3. Minimum underlayment shall be in compliance with the Roofing Application Standard RAS 120.
4. Roof Tile manufactures acquiring acceptance for the use of Polypro® AH160 roof tile adhesive with their tile assemblies shall test in accordance with TAS 101.
5. Roof Tile manufactures acquiring acceptance for the use of HANDI-STICK roof tile adhesive with their tile assemblies shall test in accordance with TAS 101 with section 10.4 as modified herein.

F W
2
F= MS



NOA No.: 06-0201.02
Expiration Date: 05/10/11
Approval Date: 04/13/06
Page 3 of 7

INSTALLATION:

1. Polypro® AH160 may be used with any roof tile assembly having a current NOA that lists uplift resistance values with the use of Polypro® AH160.
2. Polypro® AH160 shall be applied in compliance with the Component Application section and the corresponding Placement Details noted herein. The roof tile assembly's adhesive attachment with the use of Polypro® AH160 shall provide sufficient attachment resistance, expressed as an uplift based system, to meet or exceed the uplift resistance determined in compliance with Miami-Dade County Roofing Application Standards RAS 127. The adhesive attachment data is noted in the roof tile assembly NOA
3. Polypro® AH160 roof tile adhesive and its components shall be installed in accordance with Roofing Application Standard RAS 120, and Polyfoam Products, Inc. Polypro® AH160 Operating Instruction and Maintenance Booklet.
4. Installation must be by a Factory Trained 'Qualified Applicator' approved and licensed by Polyfoam Products, Inc. Polyfoam Products Inc. shall supply a list of approved applicators to the authority having jurisdiction.
5. Calibration of the Foampro® dispensing equipment is required before application of any adhesive. The mix ratio between the "A" component and the "B" component shall be maintained between 1.0-1.15 (A): 1.0 (B). The dispense timer shall be set to deliver 0.0175 to 0.15 pounds per tile as determined at calibration. No other settings shall be approved.
6. Polypro® AH160 shall be applied with Foampro RTF1000 or ProPack® 30 & 100 dispensing equipment only.
7. Polypro® AH160 shall not be exposed permanently to sunlight.
8. Tiles must be adhered in freshly applied adhesive. Tile must be set within 2 to 3 minutes after Polypro® AH160 has been dispensed.
9. Polypro® AH160 placement and minimum patty weight shall be in accordance with the 'Placement Details' herein. Each generic tile profile requires the specific placement noted herein.

Table 1: Adhesive Placement For Each Generic Tile Profile

Tile Profile	Placement Detail	Single Paddy Weight Min. (grams)	Two Paddy Weight per paddy Min. (grams)
Flat, Low, High Profiles	#1	35	N/A
High Profile (2 Piece Barrel)	#1	17/side on cap and 34/pan	N/A
Flat, Low, High Profiles	#2	24	N/A
Flat, Low, High Profiles	#3		8

LABELING:

All Polypro® AH160 containers shall comply with the Standard Conditions listed herein.

BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or applicable building code in order to properly evaluate the installation of this system.



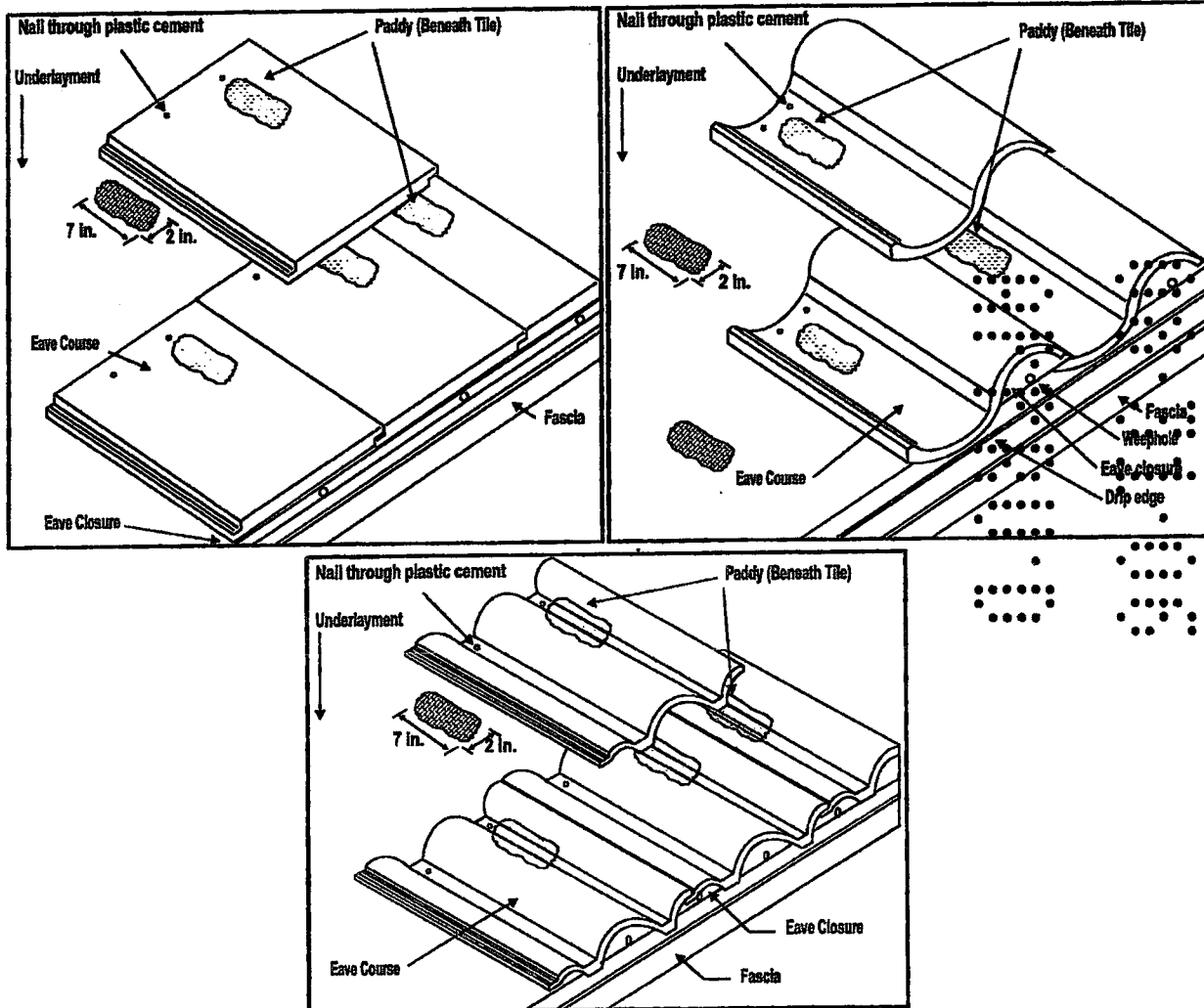
NOA No.: 06-0201.02
Expiration Date: 05/10/11
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Page 4 of 7

A 4x4 grid of dots forming the number 25. The top row has 4 dots, the second row has 4 dots, the third row has 4 dots, and the bottom row has 4 dots.



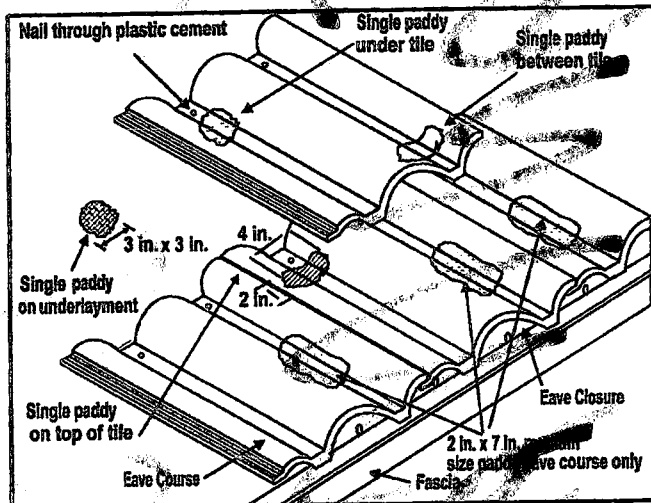
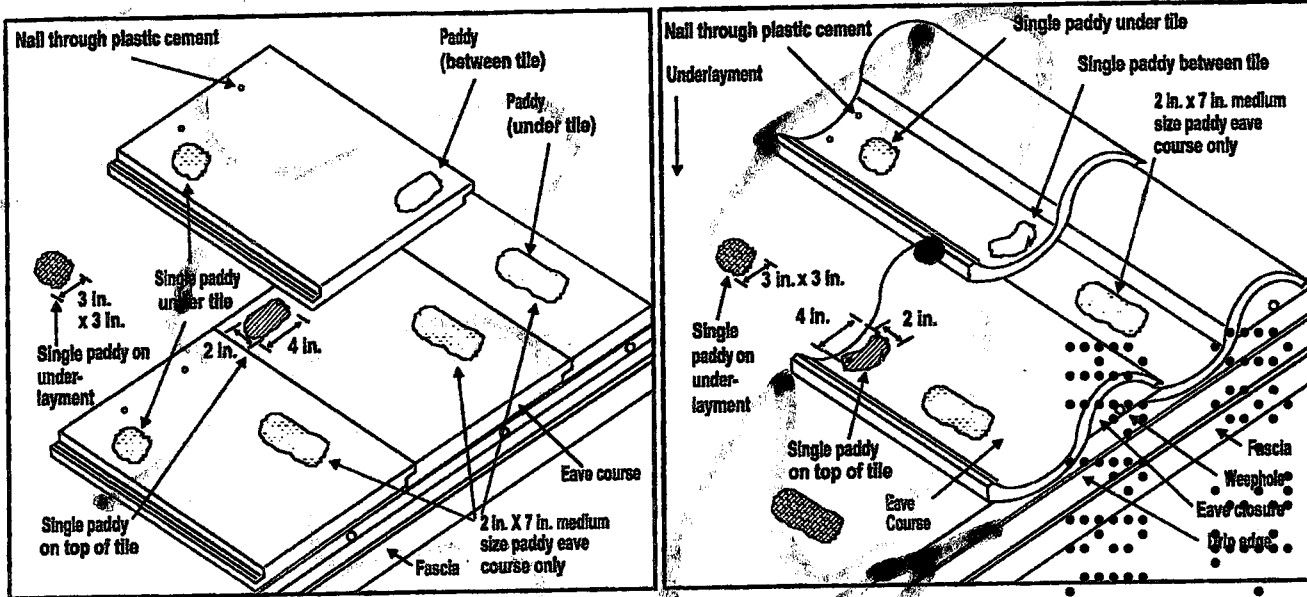
Page 5 of 7

ADHESIVE PLACEMENT DETAIL 2 SINGLE PATTY



NOA No.: 06-0201.02
 Expiration Date: 05/10/11
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ADHESIVE PLACEMENT DETAIL 3 DOUBLE PATTY



END OF THIS ACCEPTANCE



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Page 7 of 7

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**CITY OF MIAMI BEACH
BUILDING DEPARTMENT
1700 CONVENTION CENTER DRIVE
2ND FLOOR - CITY HALL
MIAMI BEACH, FL 33139**

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**NOTICE TO THE CITY OF MIAMI BEACH BUILDING
DEPARTMENT OF EMPLOYMENT AS SPECIAL INSPECTOR
UNDER THE FLORIDA BUILDING CODE**

I, have been retained by **15-21 San Marino, LLC** to perform Special Inspector services under the Florida Building Code at the **15 East San Marino Drive Residence**, on the below listed structures as of February 7, 2007. I am a professional engineer licensed in the State of Florida.

Process Number:

B07 03847

NO ELECTRICAL WORK WITH THIS
Master Permit APPLICATION AND PLANS

- Special Inspector for Pilings, FBC 1822.1.20
- Special Inspector for Soil Compaction, FBC 1820.3.1
- Special Inspector for Precast Attachments, FBC 1927.12.2 (By P.E. or R.A.)
- Special Inspector for Reinforced Masonry, FBC 2122.4
- Special Inspector for Steel Bolted & Welded Connections, FBC 2319.17.2.4.2 (By P.E. or R.A.)
- Special Inspector for Trusses over 35 feet long or 6 feet high, FBC 2319.17.2.4.2 (By P.E. or R.A.)
- Special Inspector for _____

IF ELECTRICAL WORK IS REQUIRED,
PROVIDE SEPERATE PLANS SEALED
AND SIGNED BY P.E. BEFORE THE
ELECTRICAL PERMIT IS ISSUED.

NOTE Only the marked boxes apply

The following individuals employed by this firm or me are authorized representatives to perform inspections*

1. _____
3. _____

* NOTE: FBC 2004 HVZ sections 1927.12.2, 2319.17.2.4.2 requires either a Registered Professional Engineer or Registered Architect to perform the actual inspections.

I will notify the City of Miami Beach Building Department of any changes regarding authorized personnel performing inspection services.

I understand that a Special Inspection Log for each building must be displayed in a convenient location on the site for reference by the City of Miami Beach Building Department Inspector. All mandatory inspections, as required of the Florida Building Code, Inspection performed by the Special Inspector hired by the Owner, are in addition to the mandatory inspections performed by the Building Department. Further, upon completion of the work under each building permit, I will submit to the Building Inspector at the time of the final inspection the completed Inspection Log form and sealed statement that to the best of my knowledge, belief and professional judgment those portions outlined above meet the intent of the Florida Building Code and are in subsequent accordance with the approved plans.

Signed and Sealed

PE # 56902

License Number

Date: 04/10/07

Architect / Engineer Signature:

Architect / Engineer Name:

Dennis K. Solano, PE

Address:

7500 NW 25th Street, # 205, Miami, FL 33122

Phone Number:

(305) 592-9396 Q, (305) 599-1914 F

Owner / Agent Signature:

Owner Agent Name:

Building Department Accepted by

J. A. Cevallos 04/19/07

STRUCTURAL REPORT

15-21 San Marino, LLC
New Concrete Seawall and
Timber Boat Dock Reconstruction
15 East San Marino Drive
Miami Beach, Florida

Note: Denis K. Solano assumes responsibility for both computer
and hand written calculations.

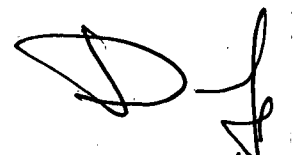
By:

Denis K. Solano
P.E. 56902
S.I. 2046

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SolVer Structural Partnership, Inc.
7500 NW 25th Street, Suite 205
Miami, Florida 33122
(305) 592-9396 Office
(305) 599-9347 Fax


04/10/07



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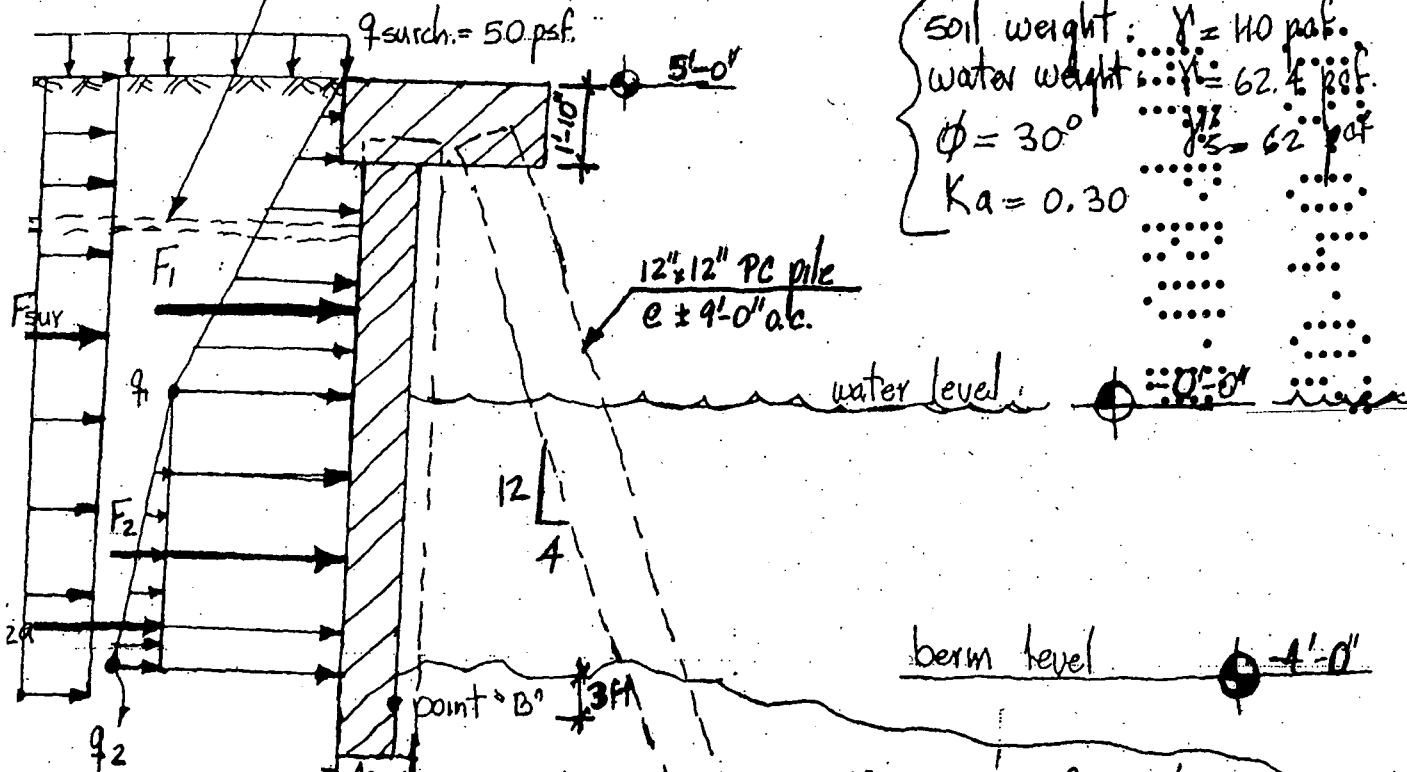
Project: _____
Sheet #: _____
Date: 7/03
Rev: _____

Existing dead
man of unknown dims. This
calculation is very conservative
since dead man is loose in a
local area.

Data:

soil characteristics:

Soil weight: $\gamma = 110 \text{ psf.}$
water weight: $\gamma_w = 62.4 \text{ psf.}$
 $\phi = 30^\circ$
 $K_a = 0.30$



$$q_1 = (\gamma \times K_a \times 5.0')$$

$$q_1 = 110 \text{ psf} \times 0.30 \times 5'$$

$$q_1 = 165 \text{ psf.}$$

$$F_1 = \frac{165 \text{ psf} \times 5'}{2} = 412 \text{ pounds.}$$

$$q_2 = q_1 + (\gamma'_s \times 4.0' \times K_a)$$

$$q_2 = 239 \text{ psf.}$$

$$F_2 = 165 \text{ psf} \times 4.0' = 660'$$

$$F_{2a} = \frac{75 \text{ psf} \times 4.0'}{2} = 149 \text{ lb.}$$



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Project: _____
Sheet #: 2
Date: 8/1/03
Rev: _____

- $q_{\text{surcharge}} = 0.30 \times 50 \text{ psf}$
 $q_{\text{surcharge}} = 15 \text{ psf.}$

$F_{\text{sur}} = 15 \text{ psf} \times 9'$
 $F_{\text{sur}} = 135 \text{ lb.}$

- $\sum M_b = (F_1 \times 8.66') + (F_2 \times 50') + (F_{2a} \times 4.333') + (F_{\text{sur}} \times \frac{12'}{2})$

$\sum M_b = 9133 \text{ lb-ft/ft} \rightarrow \text{(with surcharge)}$

$\sum M_b = 7513 \text{ lb-ft/ft} \rightarrow \text{(without surcharge)}$

- Shear @ cap = $\frac{9133 \text{ lb-ft/ft} \times (9'-0")}{(12'-1.8')}$

(with surch) Shear @ cap = 8085 lb.

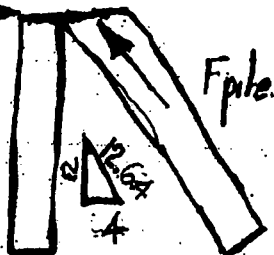
(without sur) Shear @ cap = 6629 lb.

Shear Flow = $\frac{8 \text{ k}}{9.0'}$

Shear Flow = 0.89 k/ft.

(w/surch) $F = 8.0 \text{ k}$

(without surcharge) $F = 6.6 \text{ k}$



$F_{\text{pile}} = \frac{1/58}{\text{batter}} \times \begin{cases} 8 \text{ k} \text{ or } 6.6 \text{ k} \end{cases}$

$F_{\text{pile}} = 25 \text{ k} \text{ (12.6 tons) with surcharge.}$

$F_{\text{pile}} = 20.8 \text{ k} \text{ (10.5 tons) without surcharge}$

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• 2250 S.W. Third Avenue • Suite 201 • Miami, Florida 33129 • Phone: (305) 890-9860 • Fax: (305) 890-0409 •
• e-Mail: solver@worldnet.att.net

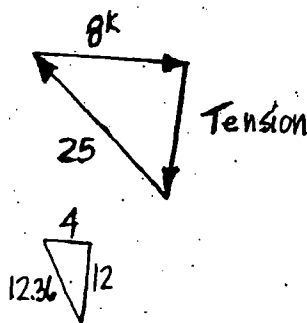


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1 of 1

Project
 Sheet #: 3
 Date: _____
 Rev: _____

② Check tension force on vertical piles: (use 4 $\frac{12.64}{12}$ batter piles)



- tension on vert pile: $\frac{12.64}{12} \times 25 = 23.73 \text{ K}$

- Determine N acting on the vert. pile:

• weight of conc. Cap = $\frac{(36'' \times 22'' \times 0.15)}{144} \times \frac{8.2}{2 \text{ piles}} = 3.38 \text{ K}$

• weight of conc. seawall = $\left(\frac{8''}{12} \times 0.15\right) \left(\frac{10' \text{ long} \times 8.2'}{1 \text{ pile}}\right) = 8.2 \text{ K}$

• weight of pile = $\left(\frac{12 \times 12}{144}\right) \times 0.15 \times 30' = 4.5 \text{ K}$

$\Sigma \text{ weight} = 3.38 \text{ K} + 8.2 \text{ K} + 4.5 \text{ K} = 16 \text{ K}$

Not tension on vert. pile = $23.73 \text{ K} - 0.6(16 \text{ K}) = 14.13 \text{ K} (7.06 \text{ tons}) < 8 \text{ tons}$

(OK)

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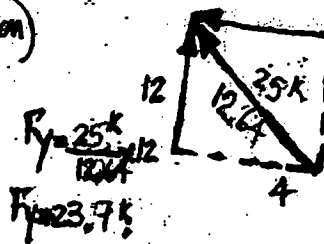
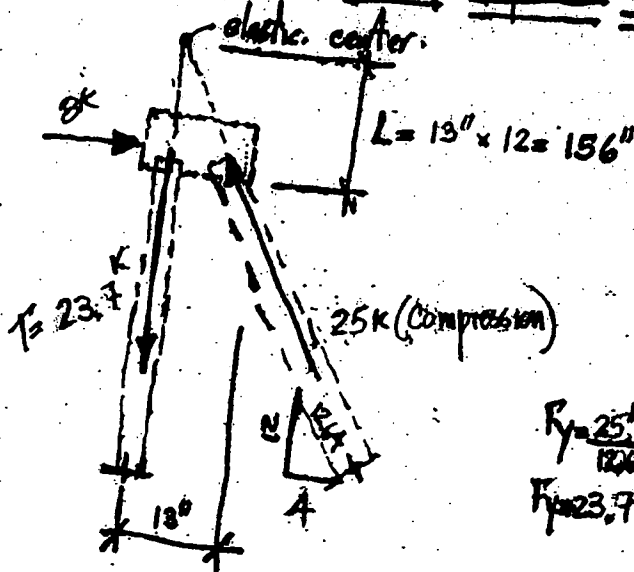
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Project: _____
 Sheet #: 4
 Date: 1/1/
 Rev: _____

② Calculate reinf. required for torsion & shear in the pile cap:



$$F_x = \frac{25K}{12.6} \times 4 = 8K$$

Note: vertical component correct out. each other; no add'l stress is considered.

- M factored about the center of vert = $(24K \times \frac{13}{12}) \times 1.7$

M factored about the center of vert = $26K-ft \times 1.7$

M factored about the center of vert = $44.2K-ft$

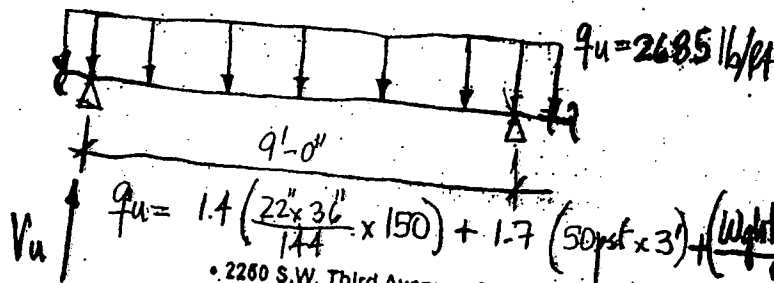
$V_u = q_u \times \frac{span}{2}$ sea calc.

$V_u = 2685 p/f \times q'$

$V_u = \frac{24,200}{2} K$

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$q_u = 1.4 \left(\frac{22 \times 36}{144} \times 150 \right) + 1.7 (50 pcf \times 3') + \left(\frac{Weight of wall}{9 ft \times 4} \right) \times 1.4$

Date: 02-Aug-2004 Time: 4:38 PM		Jessica Urizar	
Project: ASDIP		CONCRETE BEAM DESIGN	
Descrip: Rasco residence		REINFORCEMENT DESIGN:	
Engineer: denis Solano		- TRANSVERSE:	
SECTION GEOMETRY:		Transverse Reinf. A/s (in ² /in/leg) 0.0163	
Beam Section Type (Note 1):	1	Stirrups # 3 @ 6.2 in.	
Left Flange Width (in):	0.0	- LONGITUDINAL:	
Beam Web Width (in):	36.0	Bending Longitudinal Reinf. (in ²) 0.70	
Right Flange Width (in):	0.0	Bending Reinforcement Ratio Rho 0.15%	
Beam Total Height (in):	15.0	Torsional Longitudinal Reinf. (in ²) 1.74	
Flange Thickness (in):	0.0	Use 3 Bars # 4 on each Side	
COMBINED FACTORED LOADS:		Use 4 Bars # 5 Top or Bottom	
Shear Force V (kip):	12.1	BENDING CAPACITY CHECK:	
Bending Moment M (k-ft):	29.1	Minimum Bending Moment (k-ft) 82	
Torsional Moment T (k-ft):	44.7	Allowable Bending Moment (k-ft) 523	
MATERIALS:		GREAT!, BENDING CAPACITY IS OK!	
Concrete Strength f _c (ksi):	5.0	TORSION CAPACITY CHECK:	
Main Steel Strength f _y (ksi):	60.0	Minimum Torsional Moment (k-ft) 14.3	
Stirrups Strength f _y (ksi):	60.0	TORSION EFFECT MUST BE CONSIDERED	
SHEAR CAPACITY CHECK:		Max. Shear/Torsion Stress (psi) 196	
Force Taken by Concrete (kip):	54.1	Max. Allowable Stress (psi) 601	
Allowable Shear Force (kip):	184.0	Shear/Torsion Stress Ratio 0.33	
GREAT!, SHEAR CAPACITY IS OK!		GREAT!, BEAM DIMENSIONS ARE OK!	

Notes:

- 1.- Beam types are as follows:
 - Type 1.- Edge or interior beams cast monolithically with slab.
 - Type 2.- L-shaped or inverted Tee supporting beams.
- 2.- In beams type 1, any flange width is either:
 - a) Total height - slab thickness, or
 - b) 4 times the slab thickness, whichever is less.
- 3.- All stirrups must be closed, with 135-deg hooks.
 - Maximum spacing is $ph/8$, $d/2$, or 12".
- 4.- If the required number of bars do not fit in the web width, place the reinforcement in two layers.
- 5.- Beams type 2 must be designed also for local effects on the beam ledges. Use the CORBEL program for this.

Ref: "Design of Concrete Beams for Torsion"
 by D. Fanella and B. Rabbat
 Portland Cement Association
 2nd Edition, 1997

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Jessica Urizar

TORSION

Transv. Reinf.
 0.85 Phi torsion
 540 Acp (in²)
 102 Pcp (in)
 14.3 øTcr/4 (k-ft)
 57.3 øTcr (k-ft)
 0.4 ds (in)
 379.3 Aoh (in²)
 322.4 Ao (in²)
 0.0163 At/s (in²/in/leg)
 Long. Reinf.
 1.44 A't (in²)
 1.74 A't min (in²)
 1.74 USE A't (in²)
 Crushing
 196.0 Vu/bw...
 801.0 10øSQRT(f'c)
 0.33 Ratio

SHEAR

0.85 Phi shear
 450.0 bd (in²)
 63.64 Vc (kip)
 183.97 Vallow (kip)
 0.00 Vs (kip)
 0.0000 AV/s (two legs)
 TRANSV. REINF.
 0.0328 A/s Total
 0.0300 A/s min.
 0.0326 Use A/s (two legs)
 6.74 s req (in)
 88.5 ph (in)
 6.25 s max. (in)
 6.25 USE s (in)
 0.20 A (in²) (two legs)

BENDING

0.9 Phi bending
 0.0138 M/øb²...
 0.9836 SQRT()
 1.6810 1+...
 0.0139 1+...
 0.0139 w
 0.0012 Rho
 0.0033 Rho min.
 0.040 w min.
 82.4 M min.
 0.80 Beta
 0.0252 Rho max.
 0.3018 w max.
 523.3 M max.
 0.0015 Use Rho
 0.70 As (in²)

REINFORCEMENT DESIGN

0.43 A't/4 (in²)
 3 Bars on Sides (As>A't/4)
 0 Bars on Sides (s<12")
 0.96 As total (in²)
 4 Bars at Top or Bottom

Rasco residence

Calculations

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Bar #	Area	Diam.
3	0.11	0.375
4	0.20	0.500
5	0.31	0.625
6	0.44	0.750
7	0.60	0.875
8	0.79	1.000
9	1.00	1.128
10	1.27	1.270
11	1.56	1.410

	X	Y	X ²	XY
Left	0	0	0	0
Center	36	15	225	8100
Right	0	0	0	0
			8100	1000

	X	Y	X ²	XY
Flange	0	36	0	0
Web	36	15	225	8100
			8100	1000



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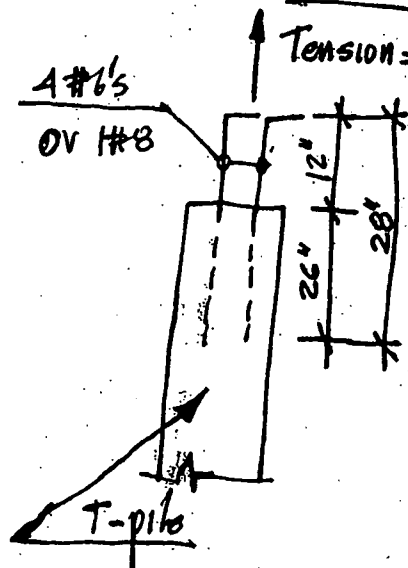
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Project: _____
 Sheet #: _____
 Date: _____
 Rev: _____

④ Check development of the 4 #6's dowels @ each exist T-pile:



+ Check epoxy-rebars inside conc pile:
 (See attached sheet from #11)

4#6 { 4 #6's (11 1/4" emb w/ epoxy - tie & adhesive) = 4 x 11 k
 { 4 #6's tension cap. based on steel strength = 44 k
 1#8 { 1 #8 (15" emb w/ epoxy) = 85,970 lb = 42.2 k
 44.2 k governs > Net tension on pile = 238 k x 1.5
 (See calc sheet #1)
 revision Δ

44.2 k > 35.7 k acting tension. (O.K.)

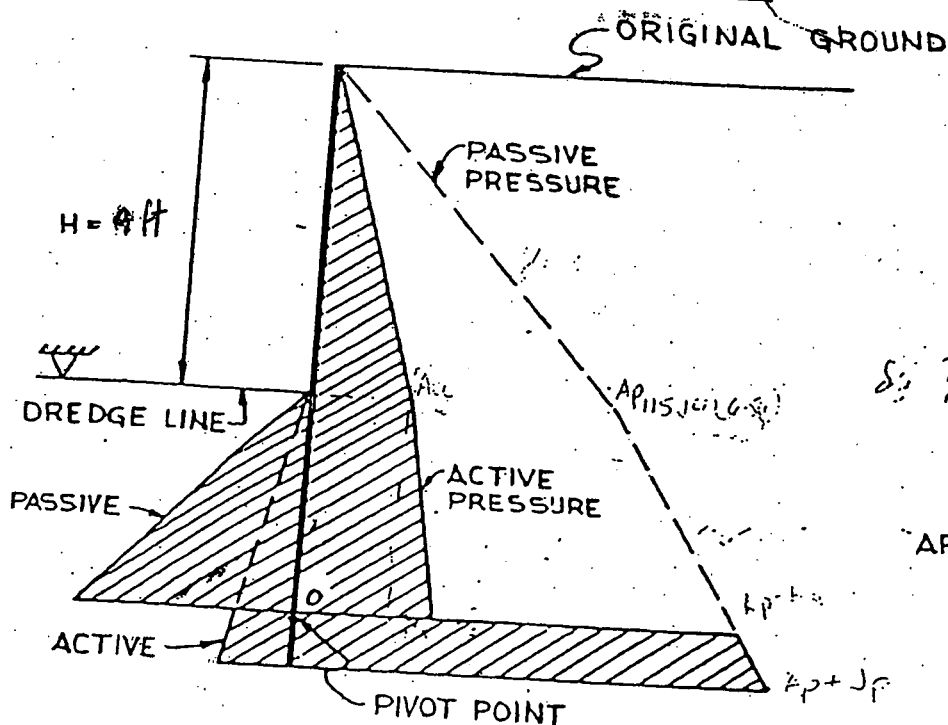
+ Check development of hooked rebars inside conc pile cap:

Min. Tension emb. lengths for standard end hook on grade
 60 bars (See attached sheet):

#6 { #6 requires 10" in 4000 psi conc.
 { #6 requires 9" in 5000 psi conc.
 1#8 { 1 #8 (15" emb. w/ epoxy) = 85,970 lb.

5 DESIGN OF CANTILEVERED Seawall, Det. Pivot

RESULTANT PRESSURE DISTRIBUTION



MEDIUM SAND

$$\gamma = 115 \text{ PCF}$$

$$\gamma' = 65 \text{ PCF}$$

$$\phi = 35^\circ$$

$$\delta = 7, \beta \gamma / \phi = -0.5$$

$$K_a = 0.27 \quad \text{SEE FIG. 5A}$$

$$K_p = 6.56$$

APPLY SAFETY FACTOR

AT END

$$K_p - K_a = 6.29$$

a Coulomb's style

K_p = 6.56 (see Fig. 5A)

K_a = 0.27 (see Fig. 5A)

clipped to K_p = 6.29

K_a = 0.27

($\delta = 0$) but $K_p = 3.69$ if $\delta = 0$

DETERMINE WALL PRESSURES

$$- P_{A1} = \gamma H K_a = (115)(9.0)(0.27) = 279 \text{ PSE}$$

$$- P_{A2} = P_{A1} + \gamma' D K_a = 279 + (65)(0.27) D$$

$$= 279 + 17.55 D$$

$$= 490.2$$

$$- P_E = \gamma' D (K_p - K_a) - P_{A1} = 65 D (6.29) - 279$$

$$= 408.9 D - 279$$

$$= 4628$$

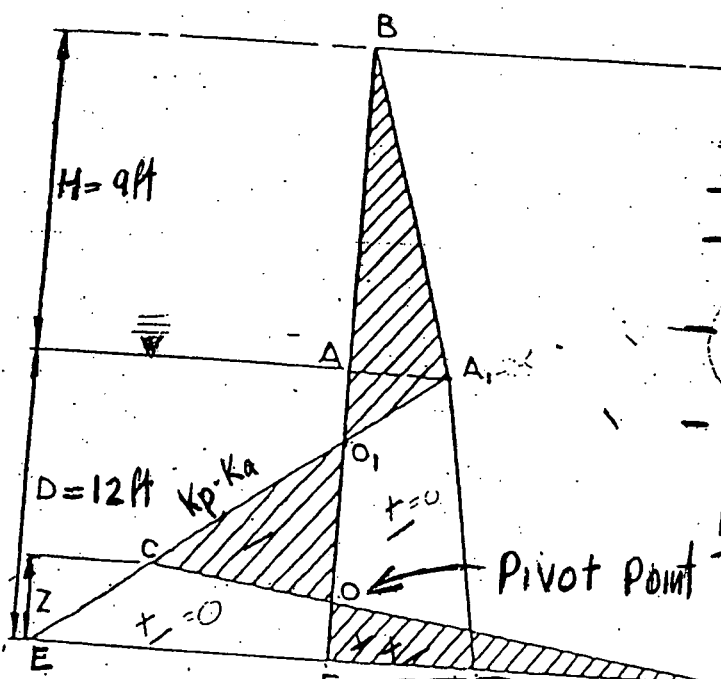
$$- P_J = \gamma' D (K_p - K_a) + \gamma H K_p = 65 D (6.29) + 115(9)(6.56)$$

$$= 408.9 D + 6789.6$$

$$P_J = 11696$$

K_p due to reversing acting of tip of pile.

CONVENTIONAL ASSUMED PRESSURE DIAGRAM



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ℓ_{dh} MINIMUM TENSION EMBEDMENT LENGTHS FOR STANDARD END HOOKS ON GRADE 60 BARS

TABLE 5-18(a) General Use (Non-Seismic)

Bar Size	NORMAL WEIGHT CONCRETE, f_c (psi)					
	3,000	4,000	5,000	6,000	7,000	8,000
# 3	6"	6"	6"	6"	6"	6"
# 4	8"	7"	6"	6"	6"	6"
# 5	10"	9"	6"	6"	6"	6"
# 6			6"	6"	6"	6"
# 7	12"	10"	8"	7"	6"	6"
# 8	14"	12"	9"	8"	7"	6"
# 9	16"	14"	11"	10"	9"	7"
# 10	18"	15"	12"	11"	10"	9"
# 11	20"	17"	14"	13"	12"	10"
# 14	22"	19"	15"	14"	13"	11"
# 18	37"	32"	17"	16"	14"	12"
	50"	43"	29"	27"	25"	23"
			39"	35"	33"	31"

- Notes: 1. Side cover $\geq 2\frac{1}{2}$ in.
 2. End cover (90° hooks) ≥ 2 in.
 3. For 180° hooks at right angles to exposed surfaces, see Table 5-19 for minimum lengths to provide 2 in. minimum cover to tail.
 4. For epoxy-coated hooks, increase the above embedment lengths by 20%.

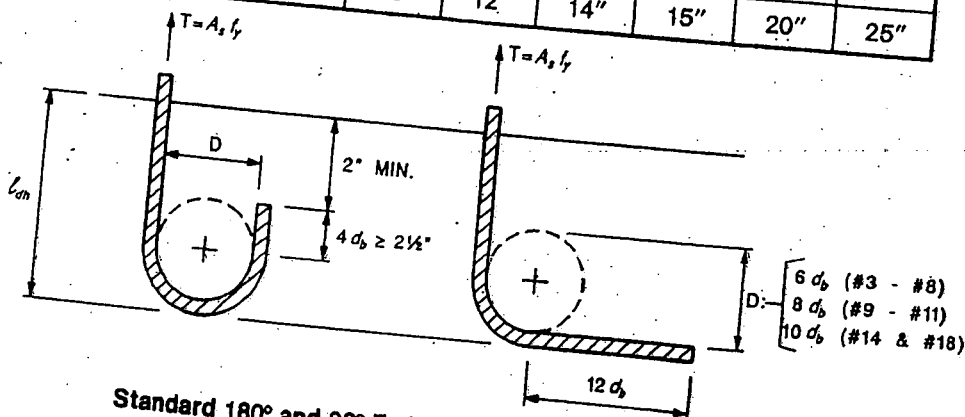
TABLE 5-18(b) Special Confinement (Non-Seismic)

Bar Size	NORMAL WEIGHT CONCRETE, f_c (psi)					
	3,000	4,000	5,000	6,000	7,000	8,000
# 3	6"	6"	6"	6"	6"	6"
# 4	6"	6"	6"	6"	6"	6"
# 5	8"	7"	6"	6"	6"	6"
# 6			6"	6"	6"	6"
# 7	10"	8"	6"	6"	6"	6"
# 8	11"	10"	7"	7"	6"	6"
# 9	13"	11"	9"	8"	7"	6"
# 10	14"	12"	10"	9"	8"	7"
# 11	16"	14"	11"	10"	9"	8"
# 14	18"	15"	12"	11"	9"	9"
# 18	37"	32"	14"	13"	11"	10"
	50"	43"	29"	27"	25"	23"
			39"	35"	33"	31"

- Notes: 1. Side cover $\geq 2\frac{1}{2}$ in.
 2. End cover (90° hooks) ≥ 2 in.
 3. For 180° hooks at right angles to exposed surfaces, see Table 5-19 for minimum lengths to provide 2 in. minimum cover.
 4. For epoxy-coated hooks, increase the above embedment lengths by 20%.

TABLE 5-19 Minimum Embedment Lengths To Provide 2 in. Cover to Tail of Standard 180° End Hook

#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18
6"	7"	7"	8"	9"	10"	12"	14"	15"	20"	25"



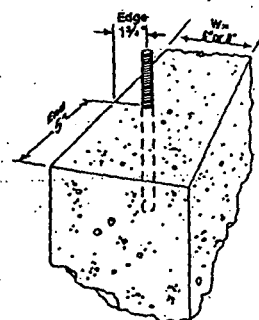
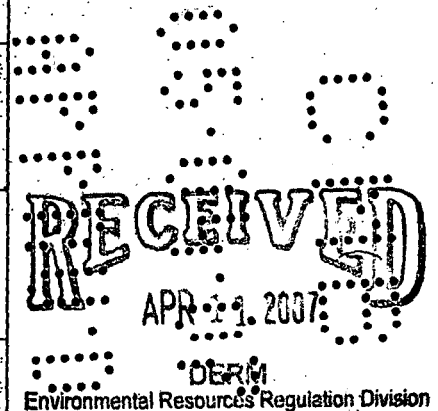
Standard 180° and 90° End Hooks (ACI 7.1)

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Tension and Shear Loads for Rebar Dowels in Concrete

Rebar Size No. (mm)	Drill Bit Dia. in.	Embed. Depth in. (mm)	Spacing (1.75E) in. (mm)	Critical Edge Dist. in. (mm)	Tension Load Based on Bond Strength						Tension & Shear Load Based on Steel Strength	
					F _c = 2000 psi (13.8 MPa) Concrete			F _y = 4800 psi (27.6 MPa) Steel				Allowable lbs. (kN)
					Ultimate lbs. (kN)	Std. Dev. lbs. (kN)	Allowable lbs. (kN)	Ultimate lbs. (kN)	Std. Dev. lbs. (kN)			
#4 (12.7)	5/8	4 1/4 (108.0)	7 1/2 (190.5)	6 3/8 (161.9)	17,596 (78.3)	533 (2.4)	4,400 (19.6)	•	•	4,400 (19.6)	4,800 (21.4)	
		5 1/8 (130.2)	9 (228.6)	7 3/4 (196.9)	•	•	•	•	•	4,730 (21.0)		
		6 (152.4)	10 1/2 (266.7)	9 (228.6)	•	•	•	20,250 (90.1)	263 (1.2)	5,080 (22.5)		
#5 (15.9)	3/4	5 (127.0)	8 3/4 (222.3)	7 1/2 (190.5)	26,427 (119.1)	1,009 (4.4)	6,385 (28.3)	•	•	6,385 (28.3)	7,440 (33.1)	
		7 1/4 (184.2)	12 3/4 (323.9)	10 7/8 (276.2)	•	•	•	•	•	6,880 (30.6)		
		9 3/8 (238.1)	15 1/2 (419.1)	14 1/8 (358.8)	•	•	•	29,511 (131.3)	2,270 (10.1)	7,375 (32.8)		
#6 (19.1)	7/8	6 3/4 (171.5)	12 (304.8)	10 1/8 (257.2)	41,812 (186.0)	595 (2.6)	10,455 (46.5)	•	•	10,455 (46.5)	10,560 (47.0)	
		9 (228.6)	15 3/4 (400.1)	13 1/2 (342.9)	•	•	•	•	•	10,750 (47.8)		
		11 1/4 (285.8)	19 3/4 (501.7)	16 7/8 (428.6)	•	•	•	44,210 (196.7)	1,227 (5.5)	11,050 (49.2)		
#7 (22.2)	1	7 3/4 (196.9)	13 5/8 (346.1)	11 5/8 (295.3)	50,241 (223.5)	2,995 (13.3)	12,560 (56.9)	•	•	12,560 (56.9)	14,400 (64.1)	
		10 1/2 (266.7)	18 3/8 (466.7)	15 3/4 (400.1)	•	•	•	•	•	13,720 (61.0)		
		13 1/8 (333.4)	23 (584.2)	19 3/4 (501.7)	•	•	•	60,328 (263.9)	3,444 (15.3)	14,830 (66.0)		
#8 (25.4)	1 1/8	9 (228.6)	15 3/4 (400.1)	13 1/2 (342.9)	60,145 (267.5)	5,493 (24.4)	15,035 (66.9)	•	•	15,035 (66.9)	18,960 (84.3)	
		12 (304.8)	21 (533.4)	18 (457.2)	•	•	•	•	•	18,260 (81.2)		
		15 (381.0)	26 1/4 (666.8)	22 1/2 (571.5)	•	•	•	85,970 (382.4)	17,965 (79.9)	21,490 (95.6)		
#9 (28.6)	1 1/4	10 1/8 (257.2)	17 3/4 (450.9)	15 1/4 (387.4)	•	•	15,038 (66.9)	•	•	18,035 (80.9)	24,000 (106.8)	
		13 1/2 (342.9)	23 5/8 (600.1)	20 1/4 (514.4)	•	•	•	•	•	21,310 (94.8)		
		16 7/8 (428.6)	29 5/8 (752.5)	25 3/8 (644.6)	•	•	•	110,320 (491.0)	4,768 (21.2)	27,590 (122.7)		
#10 (31.8)	1 1/2	11 1/4 (285.8)	19 3/4 (501.7)	16 7/8 (428.6)	70,685 (314.4)	1,112 (4.9)	17,670 (78.6)	•	•	17,670 (78.6)	30,480 (135.6)	
		15 (381.0)	26 1/4 (666.8)	22 1/2 (571.5)	•	•	•	•	•	23,960 (106.6)		
		18 3/4 (476.3)	32 7/8 (835.0)	28 1/8 (714.4)	•	•	•	120,976 (538.1)	6,706 (29.8)	30,245 (134.5)		
#11 (34.9)	1 5/8	12 3/8 (314.3)	21 3/4 (552.5)	18 5/8 (473.1)	78,422 (348.8)	4,603 (20.5)	19,605 (87.2)	•	•	19,605 (87.2)	37,440 (166.5)	
		16 1/2 (419.1)	28 7/8 (733.4)	24 3/4 (628.7)	•	•	•	•	•	28,605 (127.2)		
		20 5/8 (523.9)	36 1/8 (917.6)	31 (787.4)	•	•	•	150,415 (669.1)	8,287 (36.9)	37,608 (167.3)		
#14 (44.5)	2	15 3/4 (400.1)	27 5/8 (701.7)	23 5/8 (600.1)	91,518 (407.1)	3,797 (16.9)	22,880 (101.8)	•	•	22,880 (101.8)	54,000 (240.2)	

- Allowable load must be the lesser of the bond or steel strength.
- Allowable tension loads may be increased by 33 1/3% percent for short-term loading due to wind or seismic forces for only the shallowest embedment depths listed.
- The allowable loads listed under allowable bond in the table are based on a safety factor of 4.0. Refer to page 36 for allowable bond strength adjustment factors for spacing and edge distance (minimum embedments only).
- Refer to Temperature Sensitivity Chart for allowable bond strength reduction for temperature.
- Anchors can be used to resist tension forces in ceiling or wall installations when special consideration is given to fire-exposure conditions.



Edge and end distances for threaded rod in concrete foundation stemwall corner installation

Tension Loads for Threaded Rod Anchors in Concrete Stemwall

Rod Dia. in. (mm)	Drill Bit Dia. in.	Embed. Depth in. (mm)	Stemwall Width in. (mm)	Min. Edge Dist. in. (mm)	Min. End Dist. in. (mm)	Tension Load Based on Bond Strength			Tension Load Based on Steel Strength (SAE 1018)
						Concrete	Concrete	Concrete	
5/8 (15.9)	3/4	9 1/2 (241.3)	6 (152.4)	1 3/4 (44.5)	5 (127.0)	10,720 (47.7)	1,559 (6.9)	2,680 (11.9)	5,875 (26.1)
5/8 (15.9)	3/4	12 (304.8)	6 (152.4)	1 3/4 (44.5)	5 (127.0)	16,160 (71.9)	260 (1.2)	4,040 (18.0)	5,875 (26.1)
7/8 (22.2)	1	12 1/2 (317.5)	8 (203.2)	1 3/4 (44.5)	5 (127.0)	17,000 (75.6)	303 (1.3)	4,250 (18.9)	11,500 (51.2)
7/8 (22.2)	1	15 1/2 (393.7)	8 (203.2)	1 3/4 (44.5)	5 (127.0)	23,340 (103.8)	762 (3.4)	5,835 (26.0)	11,500 (51.2)

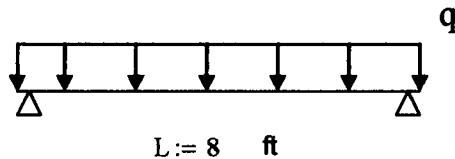
- Allowable load must be the lesser of the bond or steel strength.
- Allowable tension loads may be increased by 33 1/3% for short-term loading due to wind or seismic forces.
- The allowable loads listed under allowable bond in the table are based on a safety factor of 4.0.
- Refer to Temperature Sensitivity Chart for allowable bond strength reduction for temperature (tension only).
- Anchors can be used to resist tension forces in ceiling or wall installations when special consideration is given to fire-exposure conditions.

PROJECT:
SHEET #:
DATE: - -
REV:

DESIGN OF HEADERS:

DATA: DL := 10 PSF

LL := 60 PSF



$$q := (DL + LL) \cdot \frac{12.5}{2}$$

$$q = 437.5 \text{ PLF}$$

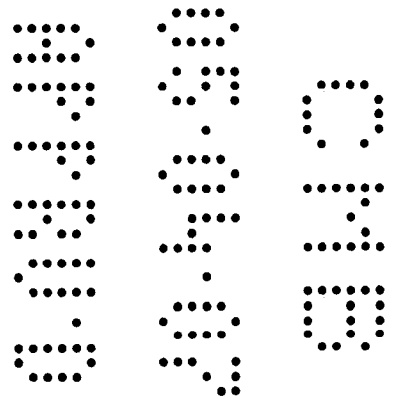
$$M := \frac{(q \cdot L^2)}{8}$$

$$M = 3.5 \times 10^3 \text{ lb-ft}$$

$$S_x := \frac{(M \cdot 12)}{(0.9 \cdot 1050)} \text{ (required)}$$

$$S_x = 44.444 \text{ in}^3 \text{ (required)}$$

USE -3"X12" HEADER: ($S_x=52.73\text{in}^3$)



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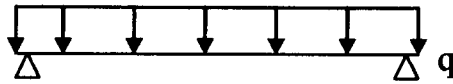
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PROJECT:
SHEET # : 1
DATE: / /
REV:

DESIGN OF STRINGER:

DATA: DL := 10 PSF

LL := 60 PSF



L := 12 ft

$$q := (DL + LL) \cdot \frac{20}{12}$$

$$q = 116.667 \text{ LF}$$

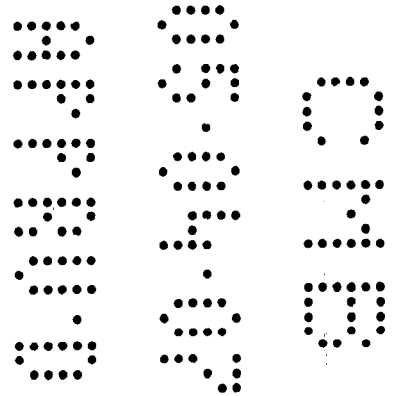
$$M := \frac{(q \cdot L^2)}{8}$$

$$M = 2.1 \times 10^3 \text{ lb-ft}$$

$$S_x := \frac{(M \cdot 12)}{(0.9 \cdot 1050)} \text{ (required)}$$

$$S_x = 26.667 \text{ in}^3 \text{ (required)}$$

USE 3"X 10" STRINGER: ($S_x=35.65 \text{ in}^3$)



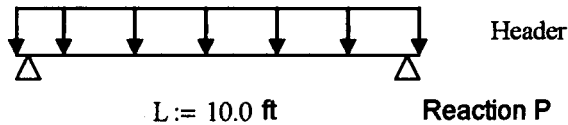
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.PROJECT:Landing at las Olas
SHEET # : 1
DATE: 09/26/04
REV:

DESIGN CONNECTION OF HEADER TO PILES:

DATA: DL := 10 PSF Tributary Length TL := 12.50
 LL := 60 PSF to
 Header

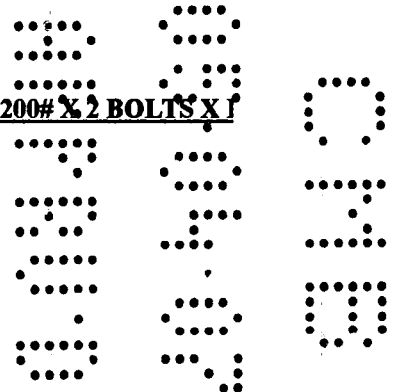


$$P := (DL + LL) \cdot \frac{TL \cdot L}{2 \cdot 2}$$

P = 2187.5 Pound

Z(perp) FOR SOUTHERN PINE; 7/8" DIA.; SIDE MEMBER=2 1/2" = 1200# X 2 BOLTS X 1
MAIN MEMBER 7 1/2"

Z(perp) = 2400 LBX0.9 > 2187 LBS O.K.



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">"

330
330
330

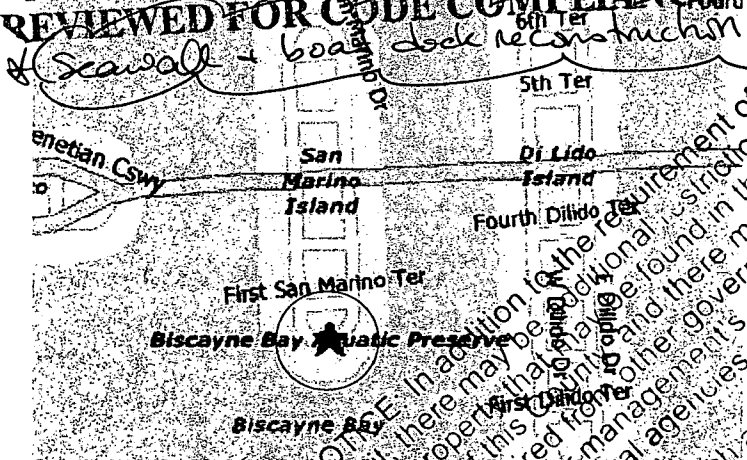
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CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
MECHANICAL:
FIRE PREVENTION:
ENGINEERING:
PUBLIC WORKS:
STRUCTURAL:
ACCESSIBILITY:
LEVATOR:

As per Florida Building Code Section 104.5.3
REVIEWED FOR CODE COMPLIANCE



DERM COASTAL SECTION
PRELIMINARY APPROVAL
NAME Priscilla Wilson
DATE 4/11/07

CONSULTANTS:

Solver Structural Partnership, Inc.
7500 NW 25 St., Suite 205 Phone: (305) 562-9390
Miami, Florida 33122 Fax: (305) 561-3447
E-Mail: solverstructural@aol.com

04/10/07
Denis K. Solano
P.E. 56902
S.I. 2046
C.O.A. 00009095

sheet no.
S-1
1 of 3

GENERAL NOTES

GENERAL
ELEVATIONS SHOWN REFER TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.

ALL DIMENSIONS ON PLANS ARE SUBJECT TO VERIFICATION IN THE FIELD. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF ENGINEER BEFORE PROCEEDING WITH WORK.

IT IS THE INTENT OF THESE PLANS AND THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL AND BUILDING PERMITS ISSUED FOR THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE AND GOVERN HIMSELF BY ALL PROVISIONS OF THESE PERMITS.

APPLICABLE BUILDING CODE: FLORIDA BUILDING CODE, 2004 EDITION.

CONCRETE AND REINFORCING STEEL

1. ALL CONCRETE (EXCEPT PRECAST PILES) SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI. AT THE END OF 28 DAYS. FOUR (4) CONCRETE CYLINDERS SHALL BE TAKEN FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF AND SHALL BE TESTED AT 3, 7 & 28 DAYS. SLUMP SHALL NOT EXCEED 4" (± 1). MAX W/C RATIO = 0.40.
2. ALL REINFORCEMENT SHALL BE 60,000 PSI MINIMUM YIELD NEW BILLET STEEL IN ACCORDANCE WITH ASTM A615 GRADE 60. ALL BAR LAPS SHALL BE A MINIMUM OF 36 BAR DIAMETERS. PLACING OF REINFORCEMENT SHALL CONFORM TO THE LATEST ACI CODE AND MANUAL OF STANDARD PRACTICE.
3. ALL CONCRETE SHALL BE PLACED WITHIN 90 MINUTES FROM BATCH TIME, AND VIBRATED AS REQUIRED BY THE ACI MANUAL OF CONCRETE PRACTICE. TEMPERATURE OF CONCRETE AT TIME OF PLACEMENT SHALL BE BETWEEN 75° AND 100° F.
4. ALL CONCRETE DECK SURFACES SHALL HAVE A LIGHT BROOM FINISH.
5. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4", OR AS SHOWN ON THE PLANS.

PRECAST CONCRETE PILING

1. PRECAST CONCRETE DOCK PILES SHALL BE 12" X 12" PILES W/5000 PSI MIN. CONCRETE & 4-7/16" DIAMETER 270 KSI ASTM A416 LOW-LAX STRANDS W/ 24" MIN. CONCRETE COVER TO TIES. DRIVEN TO A MINIMUM BEARING CAPACITY OF 25 TONS WITH 12" MINIMUM PENETRATION INTO FIRM MATERIAL BELOW SILT LAYER.
2. PILES SHALL BE CUT OFF AT ELEVATIONS SHOWN ON THE PLANS & SECTIONS.

STEEL SHEETING

1. STEEL SHEETING SHALL BE S2-14.5 OR EQUIVALENT.

WOOD PILING

1. ALL WOOD PILES TO BE SOUTHERN PINE AND COMPLY WITH A.S.T.M. D25-79 AND BE PRESSURE TREATED W/ C.C.A., FEDERAL SPECIFICATIONS TT-W-550D (1) OR TT-W-00550E (1) AND AWFA-MP-4. PILES TO HAVE A MIN. DIA. OF 12".

HARDWARE

1. ALL HARDWARE TO BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A-153-80 OR AS SPECIFIED.

BOLTS

1. ALL MACHINED BOLTS TO BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A307-83A

WOOD

1. PRIMARY WOOD FRAMING MEMBERS SHALL BE NO. 2 PRESSURE TREATED SOUTHERN PINE OR BETTER. (FB = 1050 PSI MINIMUM).

MISCELLANEOUS

1. FASTENERS EMBEDDED INTO CONCRETE STRUCTURES SHALL BE ANCHORED WITH TWO PARTY EPOXY ADHESIVE ("RAWL-CHEM" FAST CARTRIDGE SYSTEM OR EQUAL). ANCHOR HOLES SHALL BE DRILLED TO 1/8" GREATER THAN THE SPECIFIED FASTENER SIZE. HOLES SHALL BE DRILLED TO MINIMUM DEPTH SHOWN ON PLANS & SHALL BE THOROUGHLY CLEANED OUT AND DRY PRIOR TO INJECTION OF EPOXY.

LOADS

LL = 60 PSF

DL = 10 PSF

DERM COASTAL SECTION

FINAL APPROVAL

NAME Priscilla Wilson
DATE 8/3/2007

EXISTING DOCK
SUPPORT PILES (8)
TO BE USED TO
RE-CONSTRUCT
DOCK DAMAGED
DUE TO 2005
HURRICANES.

INSTALL NEW 100' LONG SEAWALL
MAX. 12" IN FRONT OF EXISTING
WALL. REMOVE EXISTING 7' WATER
PILES WITH CAPS

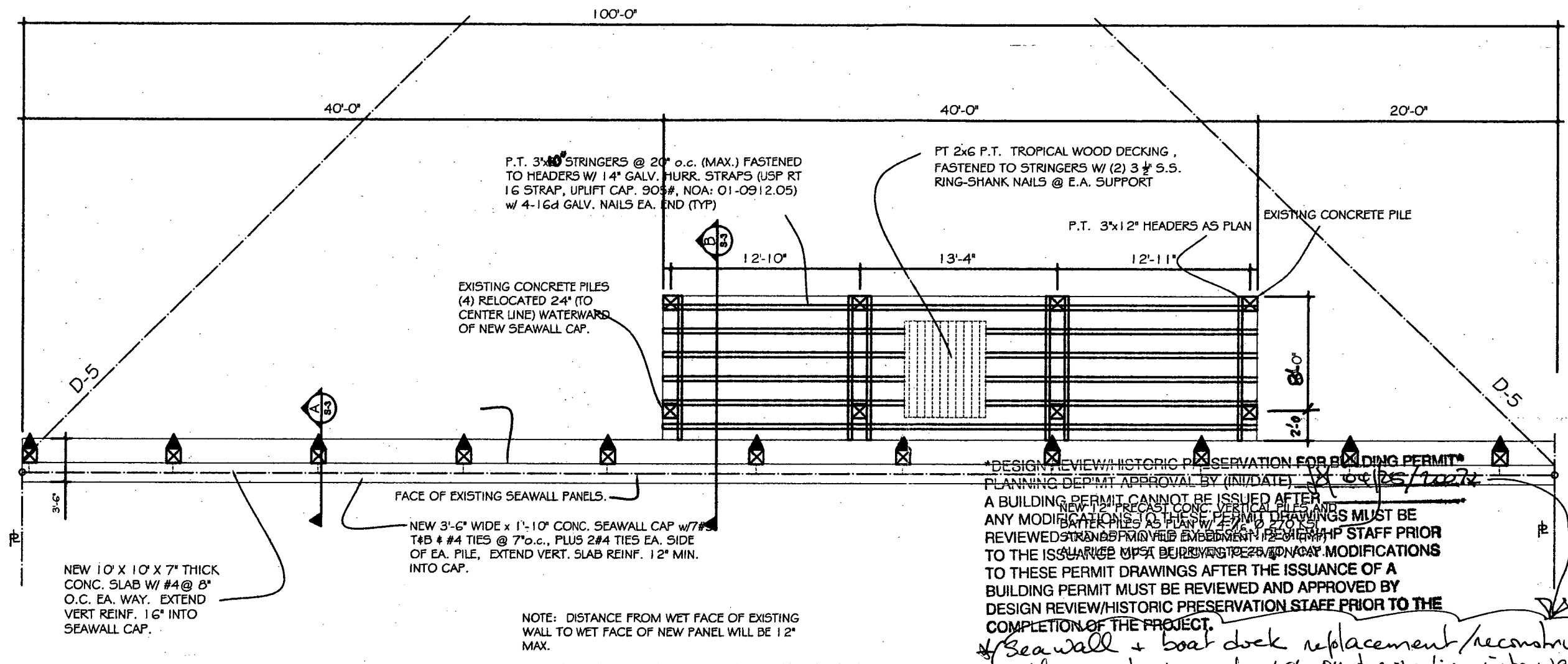
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SCALE: N.T.S.

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SITE PLAN
 SCALE: 1/8" = 1'-0"

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DERM COASTAL SECTION
FINAL APPROVAL
 NAME *[Signature]*
 DATE 8/3/2007

DERM COASTAL SECTION
PRELIMINARY APPROVAL
 NAME *[Signature]*
 DATE 4/11/07

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 Miami, Florida 33122 Fax: (305) 881-3447
 E-Mail: solverstruct@aol.com
 DESIGN - INSPECTION - INVESTIGATION - REPORTS

[Signature]
 04/10/07
 Denis K. Solano
 P.E. 56902
 S.I. 2046
 C.O.A. 00009095

job name: 15-21 SAN MARINO, LLC.
 15 EAST SAN MARINO DRIVE
 MIAMI BEACH, FLORIDA
 title: NEW 100' SEAWALL & TIMBER DOCK

date _____
 issued _____
 drawn _____
 checked _____
 project no. _____
 revisions: _____

sheet no.
S-2
 2 of 3

hbl@tridentenv.com
 305-244-0595 (m)
 17313 SW 149th Place
 Miami, Florida 33187

tridentenv.com
 Trident Environmental Consultants, Inc.
 17313 SW 149th Place
 Miami, Florida 33187
 Environmental Consultants, Inc.
 17313 SW 149th Place
 Miami, Florida 33187

SECTION

SCALE: 3/8" = 1'-0"

A
S-3

NOTE: 3" STEEL CLEAR TO CONC.

NEW 3'-6" WIDE x 1'-10" CONC. SEAWALL CAP
w/7#5 T&B & #4 TIES @ 7" o.c., PLUS 2#4
TIES EA. SIDE OF EA. PILE.
EXTEND VERT. SLAB REINF. 12" MIN. INTO
CAP.

NEW 12" X 12" P/C CONC. PILE AS A PLAN
EXTEND STRANDS 16" MIN. INTO CAP.
12'-0" MIN. PILE EMBEDMENT INTO BERM.
PILE MUST BE DRIVEN TO 25 TON CAP.

NOTE: DISTANCE FROM WET FACE
OF EXISTING WALL TO WET FACE OF
NEW PANEL WILL BE 12" MAX.

NEW 7" X 16" X 9" THICK CONC.
SLAB w/#4 @ 8" o.c. EA. WAY.
EXTEND VERT. REINF. 16" INTO
SEAWALL CAP.

BOTTOM PANEL @ EL -6'-6" N.G.V.D.

EXISTING SEAWALL
PANELS AND PILES TO
REMAIN. EXISTING
SEAWALL CAP TO BE
REMOVED.

TOP/ SEAWALL CAP @ EL +5'-0" N.G.V.D.

TOP/ NEW PANEL @ EL +4'-0" N.G.V.D.

BOTTOM SEAWALL CAP @ EL +3'-8" N.G.V.D.

M.H.W. EL + 1.52' N.G.V.D.

MLW EL -0.62' N.G.V.D.

CORAL ROCK RIP-RAP BOULDERS (1' TO 3' DIAMETER)
PLACED AT 2:1 SLOPE ALONG TOE OF SEAWALL EXTENDING A
MAX. OF 10' WATERWARD AS PER PERMIT REQUIREMENTS.

NEW 12" X 12" P/C CONC. BATTER PILE AS A
PLAN EXTEND STRANDS 16" MIN. INTO CAP.
12'-0" MIN. PILE EMBEDMENT INTO BERM.
PILE MUST BE DRIVEN TO 25 TON CAP.

EXISTING CORAL ROCK BERM

BERM @ EL -5' M.L.W.

BOTTOM BATTER & T PILE @ EL -18'-0" N.G.V.D.

NEW P.T. 3"x12" STRINGERS @ 20" o.c.
(MAX.) FASTENED TO HEADERS W/ 1"
x12" HOT DIPPED GALV. STRAPS w/
4-16d GALV. NAILS EA. END (TYP)

PT 2x6 P.T. TROPICAL
WOOD DECKING,
FASTENED TO
STRINGERS W/ (2) 3 1/2"
S.S. RING-SHANK NAILS
@ E.A. SUPPORT

P.T. 3"x12"
HEADERS AS
PLAN

EXISTING 12"x12"
PRECAST CONC.
PILES AS PLAN.

TOP/ DOCK

2-7/8" Ø H.D.G.
THRU-BOLTS W/
WASHERS (TYP.
FOR ALL PILES)

M.H.W. EL + 1.52' N.G.V.D.

MLW EL -0.62' N.G.V.D.

BERM VARIES
(-4'-0")

SECTION

SCALE: 3/8" = 1'-0"

B
S-3

DERM COASTAL SECTION
PRELIMINARY APPROVAL
NAME Priestina Evans
DATE 4/11/07

DERM COASTAL SECTION
FINAL APPROVAL

NAME [Signature]
DATE 8/3/2007

CONSULTANTS:

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15-21 SAN MARINO, LIC:
15 EAST SAN MARINO DRIVE
MIAMI BEACH, FLORIDA

title: NEW 100' SEAWALL & TIMBER DOCK

date _____
issued _____
drawn _____
checked _____
project no. _____
revisions: _____

sheet no.

S-3
3 of 3

RECEIVED
APR 11 2007

DERM
Environmental Resources Regulation Division

OFFICE COPY

CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING: 04/25/07
ZONING: 04/25/07
DRY: 04/25/07
CONCRETE: 04/25/07
PLUMBING: 04/25/07
ELECTRICAL: 04/25/07
MECHANICAL: 04/25/07
FIRE PREVENTION: 04/25/07
ENGINEERING: 04/25/07
PUBLIC WORKS: 04/25/07
STRUCTURAL: 04/25/07
ACCESSIBILITY: 04/25/07
LEVATOR: 04/25/07

As per Florida Building Code Section 104.5.3

REVIEWED FOR CODE COMPLIANCE

Sea wall & boat dock re construction only.

48 HOURS PRIOR TO EXCAVATING
CONTRACTOR SHALL CALL FOR LOCATION
OF UNDERGROUND UTILITIES
SUNSHINE ONE-CALL 1-800-432-4778
CITY OF MIAMI BEACH 305-673-7089

PUBLIC WORKS
PLAN REVIEW NOTICE

Phone 305-673-7080 Fax 305-673-7089

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR
OBTAINING BUILDING PERMITS ONLY.

All construction and/or use of equipment in the right-of-way and/or
easements, requires a separate Public Works Department permit prior
to start of construction.

Permit Requirements: Proof of existing sidewalk/curb area conditions
(pictures) and/or posting of sidewalk/roadway bonds
(Public Works inspection of the right-of-way will be required prior to
final sign-off on the C.C. / C.O., or the release of bonds.)

Approved/Reviewed By:

Date: 04/25/07

BO703847

15 E SW 11th Ave

CITY OF MIAMI BEACH
Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139
Inspections: (305) 673-7370 Office: (305) 673-7610

Bldg Small Work Permit

08-24-2007

Activity Number: B0706429

Status: APPROVED

Issued By: BUILSANK

Site Address: 15 E SAN MARINO DR MBCH
Parcel #: 32320030460

Applied: 08/24/2007
Approved: 08/24/2007
Completed:
To Expire: 02/20/2008

Valuation: \$45,000.00

Applicant: BAEZ, RAMON
4259 SW 72ND AVE
MIAMI FL 33155
305-668-8805

Property Owner: 15-21 SAN MARINO LLC
3929 PONCE DE LEON BLVD
CORAL GABLES FL 331347214

Description: REPLACE 66 WINDOWS & 8 DOORS. ALL IMPACT
Inspector Area: S Class Code: R3

DETAIL LIST

Alteration/Repair Fees

Alteration Building/Structures - Per Costs:	\$0.00	\$0.00
Awning, Canopy, Patio Cover - Per Costs:	\$0.00	\$0.00
Area Under Roof - RADON - Per Sq.Ft.:	0	\$0.00
Walk-Thru - Per Valuation:	\$0.00	\$45.00
Repairs to Building/Structure - Per Costs:	\$0.00	\$0.00
Roofing or Re-roofing - Per Sq.Ft.:	0	\$0.00
Window/Doors - Per # of:	74	\$370.00
Signs 36-4 (Writer/Erect) - Per Sq.Ft.:	0	\$0.00
Fence and/or Wall - Per Linear Feet:	0	\$0.00
Partial Demo (Struct, Sign, Wall) - Per Costs:	\$0.00	\$0.00
Swimming Pool - Per Gallon:	0	\$0.00
Painting - Per Costs:	\$0.00	\$0.00
Sandblasting - Per Costs:	\$0.00	\$0.00
Paving - Per Sq.Ft.:	0	\$0.00
Concrete Slab - No Paving - Per Sq.Ft.:	0	\$0.00
Trees - Per # of:	0	
Hedges - Per Linear Feet:	0	
Groundcover - Per Sq.Ft.:	0	
Landscaping Fee:		\$0.00
Other Fees:		\$0.00
Penalty Fee (If Applicable):		\$0.00

Activity Number: B0706429**Fire Safety Fees**

New Building or Addition - Per Sq.Ft.:	0	\$0.00
Storage/Industrial Bldg - E & F Occup - Per Sq.Ft.:	0	\$0.00
Greenhouse/Argiculture on Premises - Per Sq.Ft.:	0	\$0.00
Screen Enclsoure/Trail on Premises - Per Sq.Ft.:	0	\$0.00
SS Underground Tanks/App Shelter - Per #:	0	\$0.00
Construction not shown Above - Per Costs:	\$0.00	\$0.00
Alt/Repair Building/Structure - Per Costs:	\$0.00	\$0.00

Marine Structure Fee

Dock Area - Per Sq.Ft.:	0	\$0.00
Seawall - Per Linear Feet:	0	\$0.00
Boat Lifts, Davits, Hoist - Per # of:	0	\$0.00
Batter, Mooring, Dock Piles - Per # of:	0	\$0.00
Marine Structure Alt/Repair - Per Costs:	\$0.00	\$0.00

SFBC Compliance Surcharge

New Const/Add - Res/Mult-Fam/Comm - Per Sq.Ft.:	0	\$0.00
New Const/Add - Strg/Ind/Msc - Per Sq.Ft.:	0	\$0.00
Cost for Other Construction:		\$0.00

Training Fee

Training Fee:		\$45.00
Sanitation Fee:		\$135.00

Additional Fees

1st Reinspection:		\$0.00
Continued Reinspections - Per # of:	0	\$0.00
Building Joint Inspections - Per # of:	0	\$0.00
Change of Contractor Per # of:	0	\$0.00
Permit Extension - Per # of:	0	\$0.00

Residential Card:

Commercial Card:

Permit Card Replacements: \$0.00

Lost Plan Fee - SF: \$0.00

Lost Plan Fee - Other: \$0.00

Overtime Inspection Fees: \$0.00

Total of All Fees: \$622.00

Total of Payments: \$622.00

Balance Due: \$0.00



MIAMI BEACH

BUILDING DEPARTMENT

1700 Convention Center Drive

Miami Beach, FL 33139

Office: 305-673-7610 Fax: 305-673-7857

Lib Ins
white frame Blue glass**WORK PERMIT APPLICATION****FLORIDA BUILDING CODE IN EFFECT**\$622⁰⁰

DATE ____/____/____

PERMIT # B0706429

If subsidiary or revision, provide the Master building permit number here B: _____

IS THIS PERMIT ASSOCIATED WITH A VIOLATION? If so; BV# _____

For **DEMOLITION** provide the year the structure was built _____ Historic District ☐ Yes ☐ NoType of Property ☒ Single Family ☐ Commercial ☐ Multi-Family/CondoTYPE OF IMPROVEMENT: ☐ Building ☐ Electrical ☐ Plumbing ☐ Mechanical ☐ REVISIONDescribe replace windows & doors
66 window & 8 doorsJob Value \$ 45,000.00 Square Feet 1,666 Linear Feet _____ Pool Gallonage _____ No. of units _____Job Address 15 E San Marino DriveFolio # 62-3232-003-0460

Unit # _____

City Miami Beach State FL Zip 33139 Phone _____Owner/Owner Builder 15-21 San Marino LLC Drivers License No. _____Address 3929 Ponce de Leon BlvdCity Coral Gables State FL Zip 33146 Phone _____

Fee Simple Titleholder's Name (if other than owner) _____

Address Same as above

City _____ State _____ Zip _____ Phone _____

Contractor South Florida Impact Windows License No. SEC131149911Address 4259 SW 72 Ave.City Miami State FL Zip 33155 Phone (305) 668-8805

Cell# _____ Fax # _____

☐ Architect _____ License No. _____

Address _____

City _____ State _____ Zip _____ Phone _____

☐ Engineer Carlos Perez License No. 54844Address 9420 SW 112th St.City Miami State FL Zip 33176 Phone (786) 242-1720

PLEASE COMPLETE SHADED AREAS

BUILDING WORK PERMIT APPLICATIONS ARE AVAILABLE ON THE MIAMI BEACH WEBSITE AT :WWW.MIAMIBEACHFL.GOV

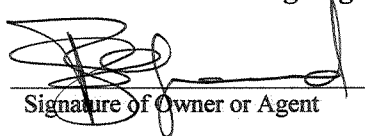
Bonding company Name NA
Address _____
City _____ State _____ Zip _____ Phone _____
Mortgage Lender's Name NA
Address _____
City _____ State _____ Zip _____ Phone _____

This application is hereby made to obtain a permit to do the work and installations as indicated. I certify that all work will be performed to meet the standards of all laws and construction regulations in this jurisdiction. I understand that **SEPARATE PERMITS** are required for *Electrical, Mechanical, Plumbing, Signs, Swimming Pools, Spas, Windows, Sliding Glass Doors and Roofing*.

OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and Zoning.

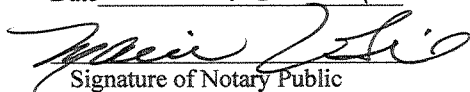
NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies.

* If the contractor is going to be hired by the tenant, check here. ☐


Signature of Owner or Agent

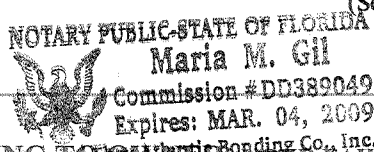
RODOLPHE LEGRAND
Printed Name of Owner or Agent

Date 8-16-07


Signature of Notary Public

Identification _____

Sworn to and subscribed before me this
16 day of AUG 20 07.
(Seal)



Signature of Tenant

Printed Name of Tenant

Date _____

Signature of Notary Public

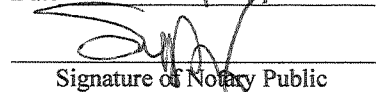
Identification _____

Sworn to and subscribed before me this
_____ day of _____ 20 ____.
(Seal)

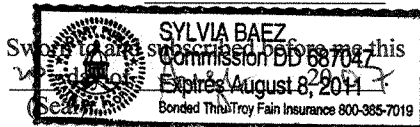

Signature of Qualifier

Laman Baez
Printed Name of Qualifier

Date 8-20-07


Signature of Notary Public

Identification _____



WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. NOTICE OF COMMENCEMENT SHOULD BE FILED AT: 22 NW 1ST STREET, MIAMI, FL

STATE OF FLORIDA

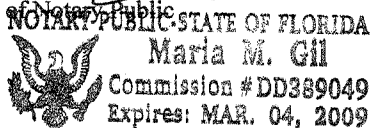
RODOLPHE LEGRAND

Print Owner's Name

Sworn to and subscribed before me this 16 day of AUG

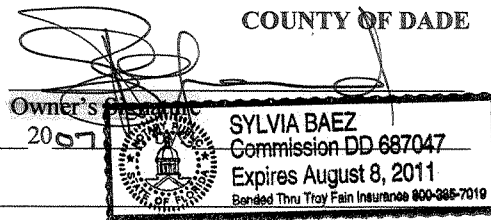
☒ Personally Known ☐ Produced Identification - Type of Identification _____


Signature of Notary Public

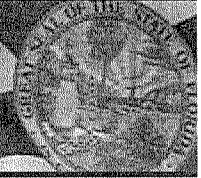


Bonded Thru Atlantic Bonding Co., Inc.
Application Approved By: _____

COUNTY OF DADE



Permit Clerk

**FLORIDA DEPARTMENT OF STATE
DIVISION OF CORPORATIONS**[Home](#)[Contact Us](#)[E-Filing Services](#)[Document Searches](#)[Forms](#)[Help](#)[Previous on List](#)[Next on List](#)[Return To List](#)[No Events](#)[No Name History](#)

Detail by Entity Name

Florida Limited Liability Company

15-21 SAN MARINO, LLC

Filing Information

Document Number L05000009785**FEI Number** 627323399**Date Filed** 01/31/2005**State** FL**Status** ACTIVE

Principal Address

3929 PONCE DE LEON BLVD.
CORAL GABLES FL 33055

Mailing Address

3929 PONCE DE LEON BLVD.
CORAL GABLES FL 33055

Registered Agent Name & Address

LEGRAND, RODOLPHE
3929 PONCE DE LEON BLVD.
CORAL GABLES FL 33055

Manager/Member Detail

Name & Address

Title MGRM

LEGRAND, RODOLPHE
3929 PONCE DE LEON BLVD.
CORAL GABLES FL 33055

Annual Reports

Report Year Filed Date

2006 07/31/2006**2007** 04/30/2007

Document Images

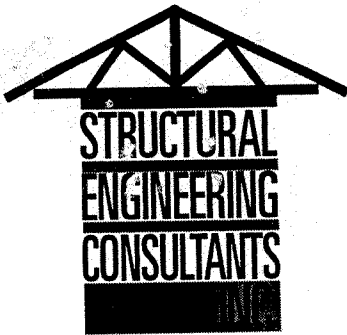
[04/30/2007 -- ANNUAL REPORT](#)

[07/31/2006 -- ANNUAL REPORT](#)

[01/31/2005 -- Florida Limited Liabilities](#)

Note: This is not official record. See documents if question or conflict.

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- 305 673.7857

- Building

- plw

- structural

- zoning

105538622.00

WIND CALCULATIONS

NOTICE: In addition to the requirement of this permit, there may be additional restrictions applicable to this property that may be found in the Public Records of this County and there may be additional permits required from other government entities such as water management districts, state agencies, or federal agencies. The City of Miami Beach assumes no responsibility for accuracy or compliance with these plans which are approved subject to compliance with all applicable State and Local Laws, Rules, and Regulations.

PROJECT:

B0706429

WINDOW / DOOR INSTALLATION AT:

15 E. SAN MARINO DRIVE
MIAMI BEACH, FLORIDA
MIAMI-DADE COUNTY

OFFICE COPY

CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY
THE FOLLOWING:

BUILDING:

ZONING:

PLUMBING:

ELECTRICAL:

AUGUST 7, 2007

MECHANICAL:

FIRE PREVENTION

ENGINEERING:

PUBLIC WORKS:

PREPARED BY:
CARLOS M. PEREZ, P.E.
STRUCTURAL ENGINEER
FL. P.E.#154844
E.B.#: 007781

08/24/07
B8/24/07

08-24-2007
JCA 08/24/07

"YOUR ON-CALL ENGINEERING COMPANY"

9420 S.W. 112TH STREET, Miami, Florida 33176
Tel: (786) 242-1720 - Fax: (786) 242-4399

DESIGN CALCULATIONS

- CODE: ASCE 7-02
- WIND VELOCITY = 146 MPH
- EXPOSURE CATEGORY = C
- BUILDING CATEGORY = II
- IMPORTANCE FACTOR (I) = 1.00
- $K_d = 1.00$; $K_{zt} = 1.00$
- VELOCITY PRESS. EXPOSURE COEF. (K_h) = 0.916
(FROM TABLE 6-3)
- ROOF SLOPE = 4 / 12
- BLDG. "W" @ NARROWEST DIM. = 49'-9"
- MEAN ROOF HEIGHT (h) = 21'-6"
- a (CORNER DISTANCE FOR ZONE 5).
 $a = 0.4 \times 21'-6" = 8'-7"$
 $a = 0.1 \times 49'-9" = 5'-0" \leftarrow$

$$q_h = 0.00256 K_h K_{zt} K_d V^2 I$$

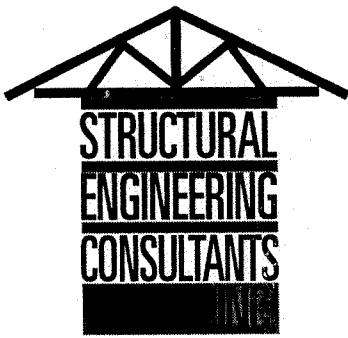
$$q_h = 0.00256 (0.916) (1.00) (1.00) (146)^2 (1.00)$$

$$q_h = 50.0 \text{ PSF}$$

$$P = q_h (GC_p) \pm q_h (GC_e)$$

* WHERE: $GC_e = \pm 0.18$

	WINDOWS CRIT. AREA < 10 ϕ		DOORS CRIT. AREA = 18 ϕ	
ZONE :	4	5	4	5
$GC_p(+)$	1.00	1.00	0.955	0.955
$GC_p(-)$	-1.10	-1.40	-1.055	-1.310
PRESSURE (+) PSF	+59.0	+59.0	+56.7	+56.7
SUCTION (-) PSF	-64.0	-79.0	-61.7	-74.4



August 7, 2007

City of Miami Beach
Building Department
Miami-Dade County, Florida

Job: Window / Door Installation at:
15 E. San Marino Drive, Miami Beach, Florida
RE: Window / Door Units Design Wind Pressures

Dear Sirs:

We hereby attest to the best of our knowledge, belief, and professional judgment that according to the above referenced building's configuration, height, and category that the maximum design pressures for exterior openings are:

WINDOWS:

Positive Design Pressure (Zone 4): 59.0 psf
Negative Design Pressure (Zone 4): 64.0 psf
Positive Design Pressure (Zone 5): 59.0 psf
Negative Design Pressure (Zone 5): 79.0 psf

DOORS:

Positive Design Pressure (Zone 4): 56.7 psf
Negative Design Pressure (Zone 4): 61.7 psf
Positive Design Pressure (Zone 5): 56.7 psf
Negative Design Pressure (Zone 5): 74.4 psf

NOTE: "Zone 5" pressures are applicable to openings that are within 5'-0" of building corners -
Refer to calculations.

The above stated design pressures have been determined in accordance with ASCE 7-02 based on the following criteria:

- * Building Category: II
- * Exposure Category: C
- * Building Mean Roof Height: 21'-6"
- * Basic Wind Speed: 146 mph

Anchor spacings and installation of glazing / window and mullion systems to main structure must be in strict accordance with the Product Control N.O.A. and have not been independently verified by Structural Engineering Consultants, Inc.

If you should happen to have any questions or concerns regarding this or any other matter, please do not hesitate to contact us.

Sincerely,
STRUCTURAL ENGINEERING CONSULTANTS, INC. (E.B.#: 007781)
8/7/07

Carlos M. Perez, P.E., Structural Engineer
FL. P.E.#: 54844

"YOUR ON-CALL ENGINEERING COMPANY"

9420 S.W. 112TH STREET, MIAMI, FLORIDA 33176
Tel: (786) 242-1720 - FAX: (786) 242-4399



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
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

PGT Industries
1070 Technology Drive
Nokomis, FL 34275

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 1"X Heavy Wall Aluminum Tube Clipped Mullion-L.M.I.

APPROVAL DOCUMENT: Drawing No. 6221, titled "1" Heavy Wall, Elevations Aluminum Tube Clipped Mullion", sheets 1 through 7 of 7, dated 04/28/00, with last revision on 05/30/06, prepared by PGT Industries, signed and sealed by Robert L. Clark, P.E., bearing the Miami-Dade County Product Control Renewal 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

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 of 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 **renews and revises** NOA # 04-0528.05 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



J. Gascon
6/28/06

NOA No 06-0125.07
Expiration Date: June 28, 2011
Approval Date: July 20, 2006
Page 1

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

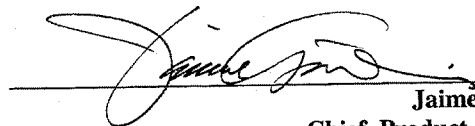
1. Manufacturer's die drawings and sections.
2. Drawing No **6221**, titled "1" Heavy Wall, Elevations Aluminum Tube Clipped Mullion", Sheets 1 through 7 of 7, dated 04/28/00, with last revision on 05/30/06, prepared by PGT Industries, signed and sealed by Robert L. Clark, P.E.

B. TESTS

1. Test reports on 1) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
2) Large Missile Impact Test, FBC, TAS 201-94
3) Cyclic Loading Test, per FBC, TAS 203-94
along with installation diagram of a pair of fixed alum. windows (OO configuration) 60" x 54" mulled together with a 1x 2 x std. wall mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2902**, dated 01/05/01, signed and sealed by Antonio Acevedo, P.E.
"Submitted under NOA # 04-0528.05"
2. Test reports on 1) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
2) Large Missile Impact Test, FBC, TAS 201-94
3) Cyclic Loading Test, per FBC, TAS 203-94
along with installation diagram of a pair of fixed alum. windows (OO configuration) 80" x 76" mulled together with a 1x 4 x std. wall mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2903**, dated 01/05/01, signed and sealed by Antonio Acevedo, P.E.
"Submitted under NOA # 04-0528.05"
3. Test reports on 1) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
2) Large Missile Impact Test, FBC, TAS 201-94
3) Cyclic Loading Test, per FBC, TAS 203-94
along with installation diagram of a pair of fixed alum. windows with a transom lite (O/OO configuration) mulled together with a 1x 2 x 3/4" wall vertical mullion and a 2 x 6" x 1/4" wall horizontal mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2975**, dated 01/23/01, signed and sealed by Antonio Acevedo, P.E.
"Submitted under NOA # 04-0528.05"

C. CALCULATIONS

1. Revised Anchor Calculations and structural analysis, complying with FBC-2004, prepared by PGT Industries, dated 05/30/06, signed and sealed by Robert L. Clark, P.E.



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 06-0125.07
Expiration Date: June 28, 2011
Approval Date: July 20, 2006

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

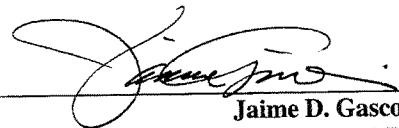
1. None.

F. STATEMENTS

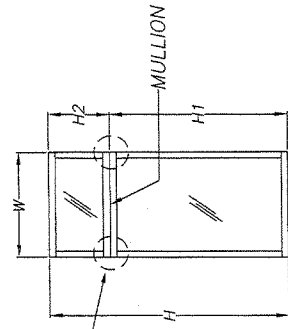
1. Statement letter of conformance and no financial interest, dated January 23, 2006, signed and sealed by Robert L. Clark, P.E.

G. OTHER

1. Notice of Acceptance No. **04-0528.05**, issued to PGT Industries for their 1" x Heavy Wall-Aluminum Tube Clipped Mullion, approved on 07/15/2005 and expiring on 06/28/06.

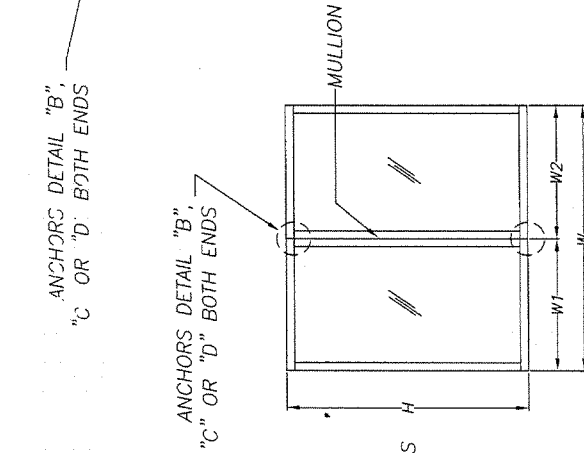


Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 06-0125.07
Expiration Date: June 28, 2011
Approval Date: July 20, 2006



(1) WINDOW MULLED
W/ONE ABOVE

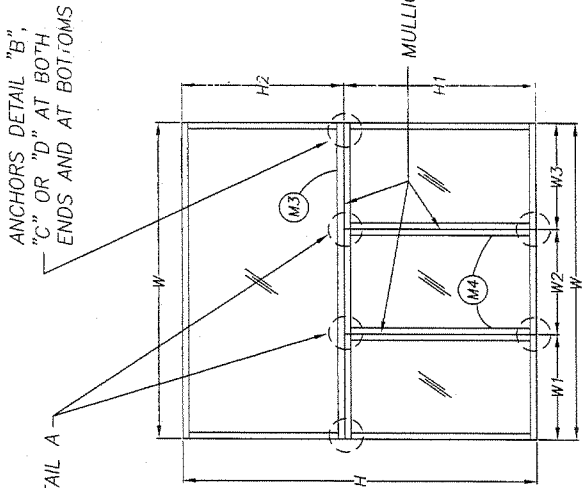
FOR DETERMINING MAX ALLOWABLE
DESIGN PRESSURE SEE TABLES
ON PAGES 5, 6 & 7
MAX OPENING = H OR H1+H2
MULL LENGTH = W



W = W1+W2

(2) WINDOWS MULLED TOGETHER

FOR DETERMINING MAX ALLOWABLE
DESIGN PRESSURE SEE TABLES
ON PAGES 5, 6 & 7
MAX OPENING = W OR W1+W2
MULL LENGTH = H

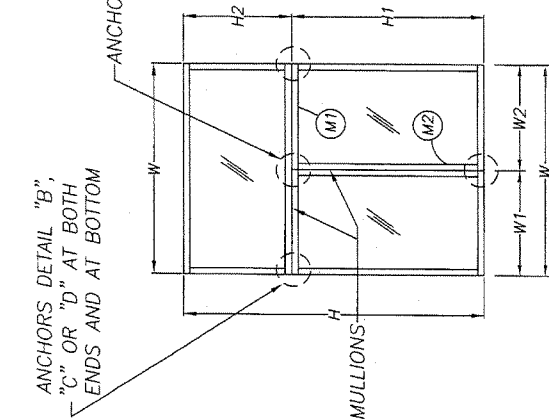


W = W1+W2+W3

H = H1+H2

(3) MULTIPLE WINDOWS MULLED
W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE
DESIGN PRESSURE SEE TABLES
ON PAGES 5, 6 & 7
M3) MAX OPENING = H OR H1+H2
M4) MAX OPENING = W OR W1+W2+W3
MULL LENGTH = H1



W = W1+W2

H = H1+H2

(2) WINDOWS MULLED
W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE
DESIGN PRESSURE SEE TABLES
ON PAGES 5, 6 & 7
M1) MAX OPENING = H OR H1+H2
M2) MAX OPENING = W OR W1+W2
MULL LENGTH = H1

NOTES:

1. THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE TYPE, QUANTITY AND LOCATION, REFER TO SHEETS 2, 3, 5, 6 AND 7.

2. WINDOWS AND DOORS OR COMBINATIONS THEREOF MAY BE MULLED TO A MAXIMUM OF (7) UNITS.

3. MULLIONS ARE APPROVED FOR IMPACT AND NON-IMPACT APPLICATIONS.

4. REFERENCE - TEST REPORTS: FTL-2902, 2903 AND 2975.

ELCO TEXTRON NOA: 04-0721.01, 03-0225.05

ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION

ADM-2000 ALUMINUM DESIGN MANUAL

5. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2004 EDITION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

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

PRODUCT RENEWED
In compliance with the Florida
Building Code
Approval No. 06-0125.07
Expiration Date 06/23/11
By: [Signature]
National Building Products Council
Division

V, Y, X, DD,
BB, X

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revised By: F.K.	Date: 5/30/06	Revisions: D-ADD NOTES 5 & 6
Revised By: F.K.	Date: 5/5/06	Revisions: C-ADD TECH. REFS.
Drawn By: P.J.P.	Date: 4/28/00	
Description: 1" HEAVY WALL, ELEVATIONS		

PGT
INDUSTRIES

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

[Signature]
5/30/06

Robert L. Clark, P.E.
PE #39712
Structural

ALUMINUM TUBE CLIPPED MULLION

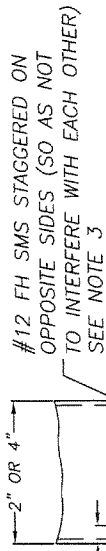
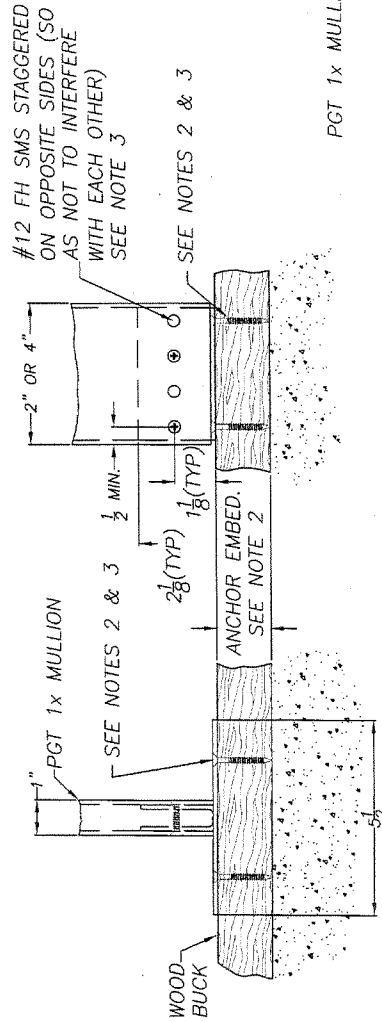
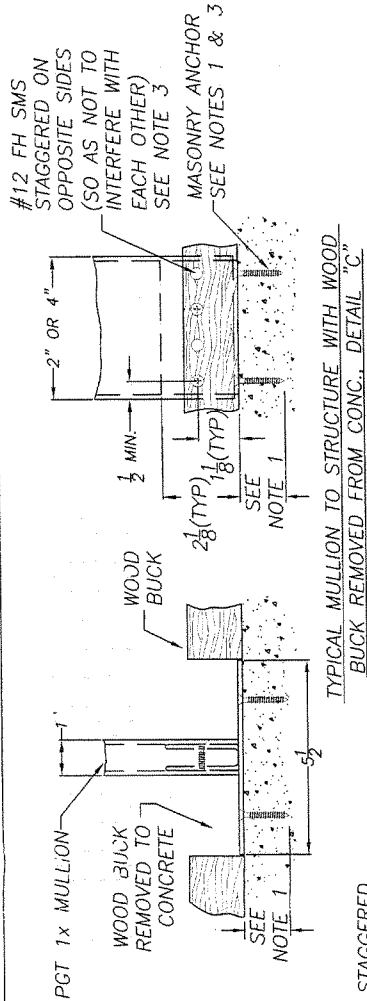
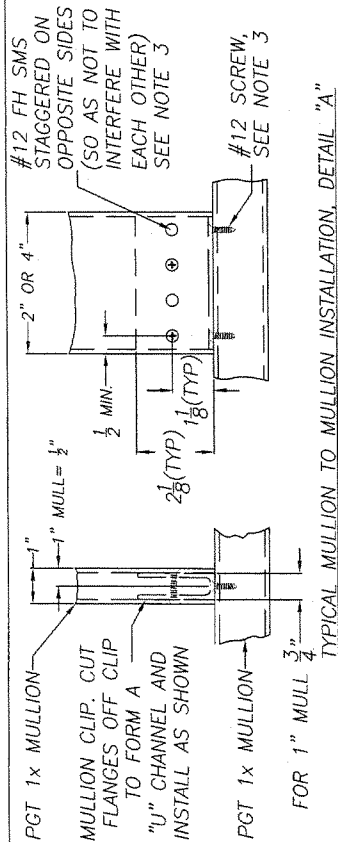
Series/Model:
MULLS

Scale:
NTS

Sheet:
1 of 7

Drawing No.
6221

Rev:
D



NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX MASONRY ANCHORS. MINIMUM DISTANCE FROM CENTER OF ANCHORS TO CONCRETE EDGE IS 2 1/2". MIN. EMBEDMENT: TAPCONS 1 1/4". CRETE-FLEX 1 3/4"
2. FOR WOOD APPLICATIONS USE #12 SCREWS, ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX MASONRY ANCHORS. MIN. EMBEDMENT 1 1/2"
3. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
4. FOR MULL SIZE AND QUANTITY OF ANCHORS SEE SHEETS 5, 6 AND 7. FOR ANCHOR LOCATIONS SEE SHEET 3. QUANTITY OF PINNING SCREWS FOR MULL-TO-CLIP TO BE HALF THE QUANTITY OF ANCHORS FROM CLIP-TO-OPENING (MINIMUM OF 2 SCREWS PER CLIP).
5. IMPORTANT: QUANTITY OF ANCHORS SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS, REFER TO CHARTS 1 THROUGH 4 ON SHEETS 5, 6 AND 7. FIND THE APPLICABLE MULL SIZE AND PRESSURE REQUIRED FOR YOUR SPECIFIC APPLICATION. ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL. ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.
6. REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS



1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Robert L. Clark, P.E.
PE #39712
Structural

Revised By:	Revisions:
F.K.	5/30/06 D-MODIFY NOTES 3 & 5
Revised By:	Revisions:
F.K.	5/3/04 C-ADD EMBED. DETAILS
Drawn By:	Date:
P.J.P.	4/28/00

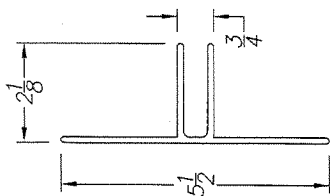
Description:

1" HEAVY WALL, CLIP INSTALLATION DETAIL

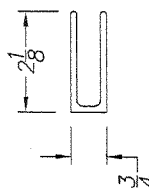
ALUMINUM TUBE CLIPPED MULLION

Scale:	Sheet:	Drawing No.	Rev:
NTS	2 of 7	6221	D

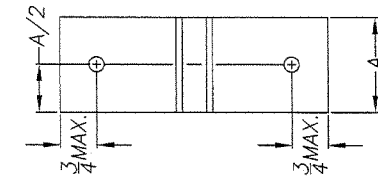
PRODUCT REVIEWED
in compliance with the Florida
Building Code
Acceptance No. 06-0125-07
Expiration Date 06/28/11
By: [Signature]
Miami Building Product Council



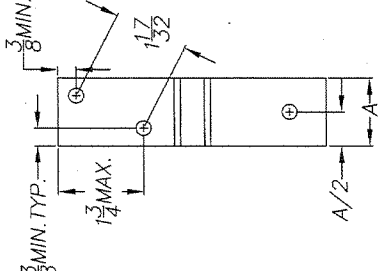
1" MULL CLIP
(CLIP TO OPENING)
EXTRUSION DWG #1099



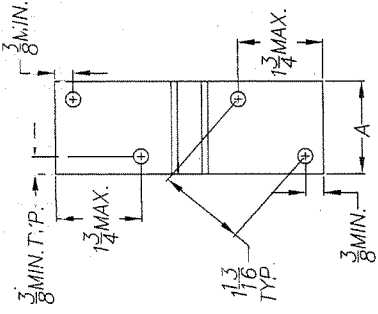
1" MULL CLIP
W/TABS REMOVED
(CLIP TO MULL)
EXTRUSION DWG #1099



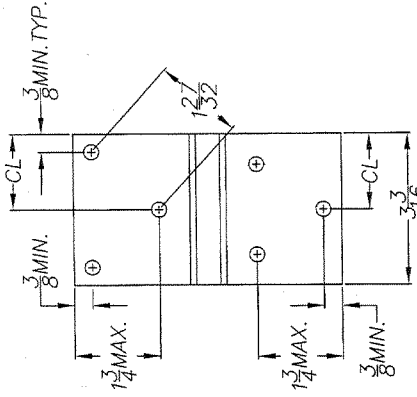
(A) TWO (2) ANCHOR LOCATIONS



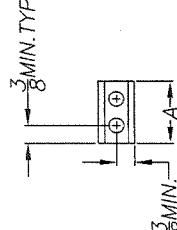
(B) THREE (3) ANCHOR LOCATIONS



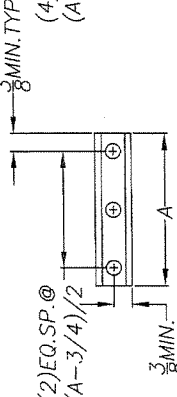
(C) FOUR (4) ANCHOR LOCATIONS



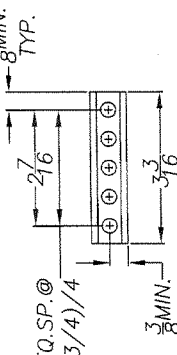
(D) SIX (6) ANCHOR LOCATIONS



(1) ONE (1) ANCHOR LOCATION



(2) TWO (2) ANCHOR LOCATION



(3) THREE (3) ANCHOR LOCATIONS

(4) FIVE (5) ANCHOR LOCATIONS

NOTES:

- IMPORTANT: QUANTITY OF ANCHORS SHOWN ARE FOR PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS, PLEASE REFER TO CHARTS 1 THROUGH 4 ON SHEETS 5, 6 AND 7. FIND THE CORRECT MULL SIZE AND PRESSURE REQUIRED FOR YOUR SPECIFIC APPLICATION.
- 3/8 MIN. EDGE DISTANCE APPLIES TO ALL DIMENSION SHOWN AS MAX.
- REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.

CLIP LENGTH CHART FOR 1x MULL	
MULL SIZE	'A'
1 x 2 x 3/8	1 3/16
1 x 2 x 3/4 x 3/8	1 15/16
1 x 2 x 3/4 x 21/32	1 3/8
1 x 4 x 3/8	3 3/16

Robert L. Clark, P.E.
5/31/06

Robert L. Clark, P.E.
PE #33712
Structural



1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS	
Revised By: F.K.	Date: 5/30/06
Revised By: F.K.	Date: 5/5/06
Drawn By: P.J.P.	Date: 4/28/00
Description: 1" HEAVY WALL, ANCHOR LOCATIONS	

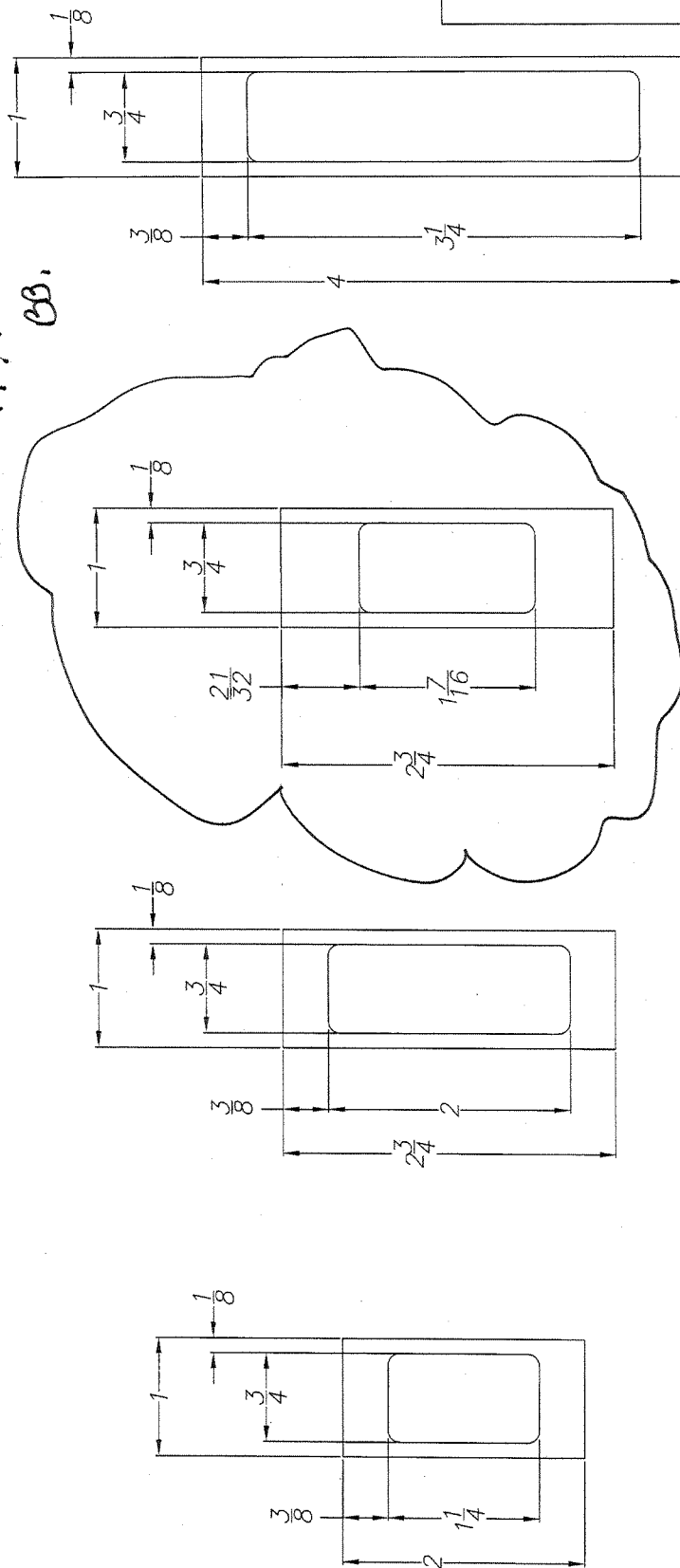
Title: ALUMINUM TUBE CLIPPED MULLION

Series/Model: MULLS
Scale: NTS
Sheet: 3 of 7
Drawing No. 6221

Rev: D

PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 06-0125-07
Expiration Date 12/31/11
By: *Michael J. Pickett*
Division

V.V., X.D.D.,
CB.



1x HEAVY WALL MULLS

MAT'L: 6063-T6

PRODUCT REVIEWED
in compliance with the Florida
Building Code
Acceptance No. 06-0125-07
Expiration Date 06/23/11
By: [Signature]
Aluminum Division

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revised By: F.R.	Date: 5/30/06	Revisions: D-NO CHG THIS SHIT
Revised By: F.R.	Date: 5/5/06	Revisions: C-NO CHG THIS SHIT
Drawn By: P.J.P.	Date: 4/28/00	



1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

[Signature]

5/30/06
Robert L. Clark, P.E.
PE #39712
Structural

1" HEAVY WALL, MULLION PROFILES

ALUMINUM TUBE CLIPPED MULLION

Series/Model: MULLS

Scale: 1X

Sheet: 4 of 7

Drawing No. 6221

Rev: D

NOTE:

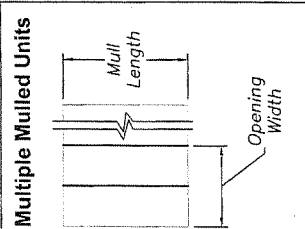
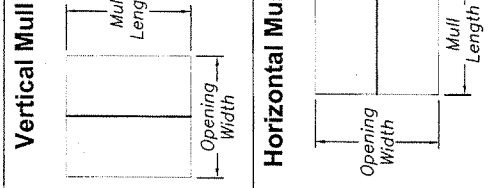
1. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

CHART 2. - 1x2.75x.375

QTY. & TYP. ANCHOR	OPENING WIDTH IN INCHES											
	50	60	70	80	90	100	110	120	130	140	150	160
CLIP TO OPENING	(2) A (3) B	(2) A (3) B	(2) A (3) B	(2) A (3) B	(2) A (3) B	(2) A (3) B	(2) A (3) B	(2) A (3) B	(2) A (3) B	(2) A (3) B	(2) A (3) B	(2) A (3) B
CLIP TO MULL	(3) B (3) B	(3) B (3) B	(3) B (3) B	(3) B (3) B	(3) B (3) B	(3) B (3) B	(3) B (3) B	(3) B (3) B	(3) B (3) B	(3) B (3) B	(3) B (3) B	(3) B (3) B
MULL LENGTH IN INCHES	42	170	170	170	170	170	170	170	170	170	170	170
	48	170	170	170	170	170	170	170	170	170	170	170
	50.625	170	170	161	170	148	170	136	170	134	170	134
	54	166	170	147	170	135	165	126	153	121	146	119
	60	145	152	127	131	112	112	99	99	84	84	80
	63	131	131	112	112	99	99	85	85	77	72	68
	66	113	113	97	97	85	85	77	77	68	68	65
	72	86	86	73	73	65	65	58	58	54	54	50
	76	73	73	62	62	54	54	49	49	45	45	42
	78	67	67	57	57	50	50	45	45	41	41	38
	84	54	54	45	45	40	40	35	35	32	32	30
	90	43	43	37	37	32	32	28	28	26	26	24
	96	36	36	30	30	26	26	23	23	21	21	19
	108	25	25	21	21	18	18	16	16	-	-	-
	111	23	23	19	19	17	17	15	15	-	-	-

CHART 1. - 1x2x.375

QTY. & TYP. ANCHOR	OPENING WIDTH IN INCHES											
	50	60	70	80	90	100	110	120	130	140	150	160
CLIP TO OPENING	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B	(2) A (2) B
CLIP TO MULL	(1) B (1) B	(1) B (1) B	(1) B (1) B	(1) B (1) B	(1) B (1) B	(1) B (1) B	(1) B (1) B	(1) B (1) B	(1) B (1) B	(1) B (1) B	(1) B (1) B	(1) B (1) B
MULL LENGTH IN INCHES	42	155	142	134	130	130	130	130	130	130	130	130
	48	129	116	107	102	100	99	99	99	99	99	99
	50.625	115	100	91	85	82	80	80	80	80	80	80
	54	94	81	73	68	64	63	62	62	62	62	62
	60	67	58	51	47	44	42	41	41	41	41	41
	63	58	49	44	40	37	35	34	34	34	34	34
	66	50	43	38	34	32	30	29	28	28	28	28
	72	38	32	29	26	24	22	21	20	20	20	20
	76	32	27	24	22	20	18	17	16	16	16	16
	78	30	25	22	20	18	17	16	15	15	-	-
	84	24	20	17	16	-	-	-	-	-	-	-
	90	19	16	-	-	-	-	-	-	-	-	-
	96	16	-	-	-	-	-	-	-	-	-	-



PRODUCT REVIEWED
 as complying with the Florida
 Building Code
 Acceptance No. 06-01250-2
 Expiration Date 06/12/2011
 By *[Signature]*
 Miami Building Product Council
 Division

- NOTES:**
1. MAXIMUM ALLOWABLE PRESSURE IN PSF.
 2. DESIGN IS BASED ON OPENING WIDTH. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME. SEE SHEET 1.
 3. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975
 4. ANCHOR TYPES: A. ELCO 1/4" TAPCONS, EMBED. (1 1/4") OR 1/4" SS4 CRETE-FLEX, EMBED. (1 3/4")
 B. #12 SCREWS
 5. SEE ANCHOR SPACING DETAILS SHEET 3.

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS



[Signature]
 5/30/06

Revised By: F.K. Date: 5/30/06
 Revisions: D-NO CHG THIS SHIT

Revised By: F.K. Date: 5/5/06
 Revisions: C-MARKED REVISIONS

Drawn By: P.J.P. Date: 4/28/00
 Description:

Title:
 1" HEAVY WALL, PRESSURE CHARTS 1 & 2

1070 TECHNOLOGY DRIVE
 NOKOMIS, FL 34275
 P.O. BOX 1529
 NOKOMIS, FL 34274

Robert L. Clark, P.E.
 PE #38712
 Structural

Scale: NTS 5 of 7
 Drawing No. 6221
 Rev: D

CHART 3. - 1x2.75x.650

QTY. & TYP. ANCHOR	OPENING WIDTH IN INCHES											
	50	60	70	80	90	100	110	120	130	160		
CLIP TO OPENING	(2) A (3) B (4) B	(2) A (3) B (4) B	(2) A (3) B (4) B	(2) A (3) B (4) B	(2) A (3) B (4) B	(2) A (3) B (4) B	(2) A (3) B (4) B	(2) A (3) B (4) B	(2) A (3) B (4) B	(2) A (3) B (4) B	(2) A (3) B (4) B	(2) A (3) B (4) B
CLIP TO MULL 	(2) B (2) B (2) B	(2) B (2) B (2) B	(2) B (2) B (2) B	(2) B (2) B (2) B	(2) B (2) B (2) B	(2) B (2) B (2) B	(2) B (2) B (2) B	(2) B (2) B (2) B	(2) B (2) B (2) B	(2) B (2) B (2) B	(2) B (2) B (2) B	(2) B (2) B (2) B
MULL LENGTH IN INCHES	42	170	170	170	170	170	170	170	170	170	170	170
	48	170	170	160	170	170	170	170	170	170	170	170
	50.625	166	170	148	169	141	161	138	158	137	157	137
	54	152	170	135	155	124	136	125	143	123	141	123
	60	133	152	117	134	106	122	99	113	108	124	108
	63	125	143	110	126	99	114	92	105	88	100	88
	66	118	135	103	118	93	107	86	97	81	91	80
	72	106	108	92	92	81	81	73	67	60	58	56
	76	91	91	77	77	68	68	61	56	49	47	45
	78	84	84	71	71	63	63	56	51	45	42	40
	84	67	67	57	57	50	50	44	40	35	32	30
	90	54	54	46	46	40	40	36	32	28	25	23
	96	44	44	38	38	33	33	29	26	23	20	18
	108	31	31	26	26	23	23	20	18	15	-	-
	111	29	29	24	24	21	21	18	17	15	-	-

NOTES:

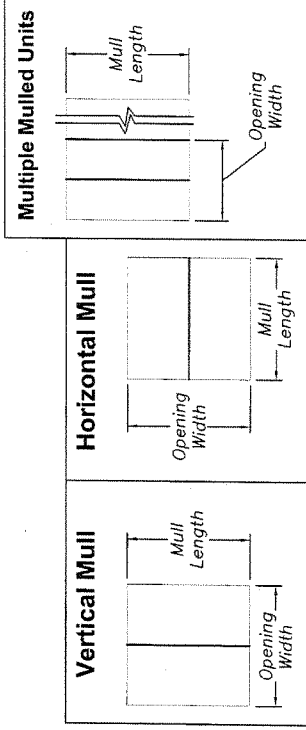
1. MAXIMUM ALLOWABLE PRESSURE IN PSF.
2. DESIGN IS BASED ON OPENING WIDTH. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME. SEE SHEET 1.
3. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975
4. ANCHOR TYPES: A. ELCO 1/4" TAPCONS, EMBED. (1 1/4") OR 1/4" SS4 CRETE-FLEX, EMBED. (1 3/4")
B. #12 SCREWS
5. SEE ANCHOR SPACING DETAILS SHEET 3.

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS



Robert L. Clark, P.E.
5/8/06

Robert L. Clark, P.E.
PE #39712
Structural



PRODUCT RENEWED
in compliance with the Florida
Building Code
Acceptance No. 06-0125-07
Expiration Date 06/28/11
By: *Robert L. Clark*
National Grade Product Council
Division

1" HEAVY WALL, PRESSURE CHART 3

ALUMINUM TUBE CLIPPED MULLION

Scale: NTS 6 of 7 Drawing No. 6221 Rev: D

CHART 4. - 1x4x.375

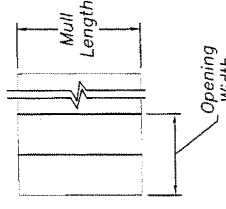
QTY. & TYP. ANCHOR		OPENING WIDTH IN INCHES												160	
		50	60	70	80	90	100	110	120	130	140	150	160		
CLIP TO OPENING	(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B
		(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B	(3) A (6) B (5) B	(2) A (4) B (5) B	(3) A (6) B (5) B
42	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
48	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
50.625	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
54	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
60	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
63	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
66	170	170	170	170	170	170	170	170	170	170	170	170	170	170	170
72	154	170	170	170	170	170	170	170	170	170	170	170	170	170	170
76	144	170	170	170	170	170	170	170	170	170	170	170	170	170	170
78	140	170	170	170	170	170	170	170	170	170	170	170	170	170	170
84	128	138	111	117	98	102	90	92	83	83	77	77	73	73	73
90	112	112	95	95	82	82	74	74	67	67	62	62	58	58	58
96	92	92	78	78	67	67	60	60	54	54	50	50	47	47	47
108	64	64	54	54	47	47	42	42	37	37	34	34	32	32	32
111	59	59	50	50	43	43	38	38	34	34	31	31	29	29	29
144	27	27	22	22	19	19	17	17	15	15	-	-	-	-	-

MULL LENGTH IN INCHES

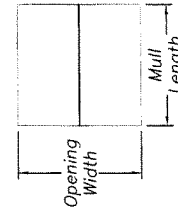
NOTES:

1. MAXIMUM ALLOWABLE PRESSURE IN PSF.
2. DESIGN IS BASED ON OPENING WIDTH. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME. SEE SHEET 1.
3. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975
4. ANCHOR TYPES: A. ELCO 1/4" TAPCONS, EMBED. (1 1/4") OR 1/4" SS4 CRETE-FLEX, EMBED. (1 3/4")
B. #12 SCREWS
5. SEE ANCHOR SPACING DETAILS SHEET 3.

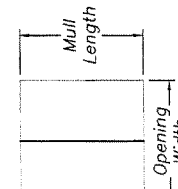
Multiple Mull Units



Horizontal Mull



Vertical Mull



TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revised By: F.K.	Date: 5/30/06	Revisions: D-NO CHG THIS SHIT
Revised By: F.K.	Date: 5/5/06	Revisions: C-MARKED REVISIONS
Drawn By: P.J.P.	Date: 4/28/00	
Description: 1" HEAVY WALL, PRESSURE CHART 4		



1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Reviewed: J. Cloutier, P.E.
PE #35712
Structural

Title: ALUMINUM TUBE CLIPPED MULLION

Series/Model: MULLS
Scale: NTS
Sheet: 7 of 7
Drawing No. 6221

Rev: D

PRODUCT REVIEWED
in accordance with the Florida
Building Code
Approval No. 06-0125-07
Expiration Date 06/28/11
By: [Signature]
Florida State Product Council
Divided



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)

www.buldingcodeonline.com

PGT Industries
1070 Technology Drive
Nokomis, FL 34275

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 PW-701 Aluminum Fixed Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 4259-4, titled "Aluminum Picture Window, Impact", sheets 1 through 12 of 12, prepared by manufacturer, dated 7/14/03, with revision "B", dated 4/4/07, signed and sealed by Robert L. Clark, 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 # 03-1105.01 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

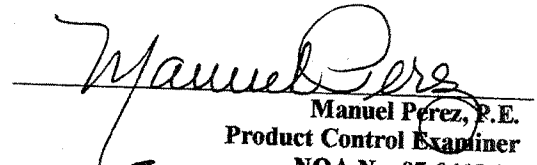
The submitted documentation was reviewed by Manuel Perez, P.E.



NOA No. 07-0418.06
Expiration Date: February 19, 2009
Approval Date: June 21, 2007
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. **DRAWINGS**
1. Manufacturer's die drawings and sections.
 2. Drawing No. **4259-4**, titled "Aluminum Picture Window, Impact", sheets 1 through 12 of 12, prepared by manufacturer, dated 7/14/03, with revision "B", dated 4/4/07, signed and sealed by Robert L. Clark, P.E.
- B. **TESTS**
1. Test reports on 1) Uniform Static Air Pressure Test, Loading 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 alum. fixed windows of different shapes, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3835**, dated 07/18/03, signed and sealed by Joseph Chan, P.E.
(Submitted under previous NOA #03-1105.01)
 2. 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
along with marked-up drawings and installation diagram of an aluminum picture window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3850**, dated 07/31/03, signed and sealed by Joseph Chan, P.E.
(Submitted under previous NOA #03-1105.01)
- C. **CALCULATIONS**
1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by manufacturer, dated 4/13/07, signed and sealed by Robert L. Clark, P.E.
Complies with ASTM E1300-02
- D. **QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO).
- E. **MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **02-0828.15** issued to E.I. DuPont DeNemours for "DuPont Butacite PVB Material" dated 11/21/02, expiring on 12/11/05.
 2. Notice of Acceptance No. **01-0205.02** issued to Solutia, Inc. for "Saflex / Keepsafe Maximum" dated 5/17/01, expiring on 5/21/06.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-0418.06
Expiration Date: February 19, 2009
Approval Date: June 21, 2007

PGT Industries

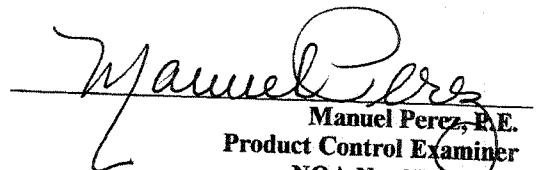
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

1. Statement letter of conformance, dated April 13, 2007, signed and sealed by Robert L. Clark, P.E.
2. Statement letter of no financial interest, dated April 13, 2007, signed and sealed by Robert L. Clark, P.E.

G. OTHER

1. Notice of Acceptance No. **03-1105.01**, issued to PGT Industries for their Series "PW-701" Aluminum Picture Window-LMI, approved on 02/19/04 and expiring on 02/19/09.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-0418.06
Expiration Date: February 19, 2009
Approval Date: June 21, 2007

NOTES: LARGE MISSILE WINDOWS

1. GLAZING OPTIONS:

- A. 7/16" LAMINATED GLASS COMPRISED OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 2/16" HEAT STRENGTHENED GLASS WITH AN .090 INTERLAYER OF DUPONT BUTACITE OR SAFLEX KEEPSAFE MAXIMUM PVB.
- B. 7/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 INTERLAYER OF DUPONT BUTACITE OR SAFLEX KEEPSAFE MAXIMUM PVB.
- C. 1 1/16" LAMI I.G. GLASS COMPRISED OF (1) LITE OF 3/16" HEAT STRENGTHENED GLASS, A 7/16" AIRSPACE AND 7/16" LAMINATED GLASS WHICH IS COMPRISED OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 INTERLAYER OF DUPONT BUTACITE OR SAFLEX KEEPSAFE MAXIMUM PVB.
- D. 1 1/16" LAMI I.G. GLASS COMPRISED OF (1) LITE OF 3/16" HEAT STRENGTHENED GLASS, A 7/16" AIRSPACE AND 7/16" LAMINATED GLASS WHICH IS COMPRISED OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 INTERLAYER OF DUPONT BUTACITE OR SAFLEX KEEPSAFE MAXIMUM PVB.

2. DESIGN PRESSURE RATINGS: (FLANGED - SEE SHEET 5, TABLE 1 AND INTEGRAL FIN - SEE SHEET 6, TABLE 2)

- A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-02.
- B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-02.

3. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION.

FOR ANCHORAGE INFORMATION SEE SHEETS 10 THROUGH 12.

4. SHUTTER REQUIREMENT: NONE REQUIRED

5. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME.

6. REFERENCES: TEST REPORTS, FTL-3835 & FTL-3850

ELCO TEXTRON NOA: 04-0721.01, 03-0225.05

ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION

ADM-2000 ALUMINUM DESIGN MANUAL

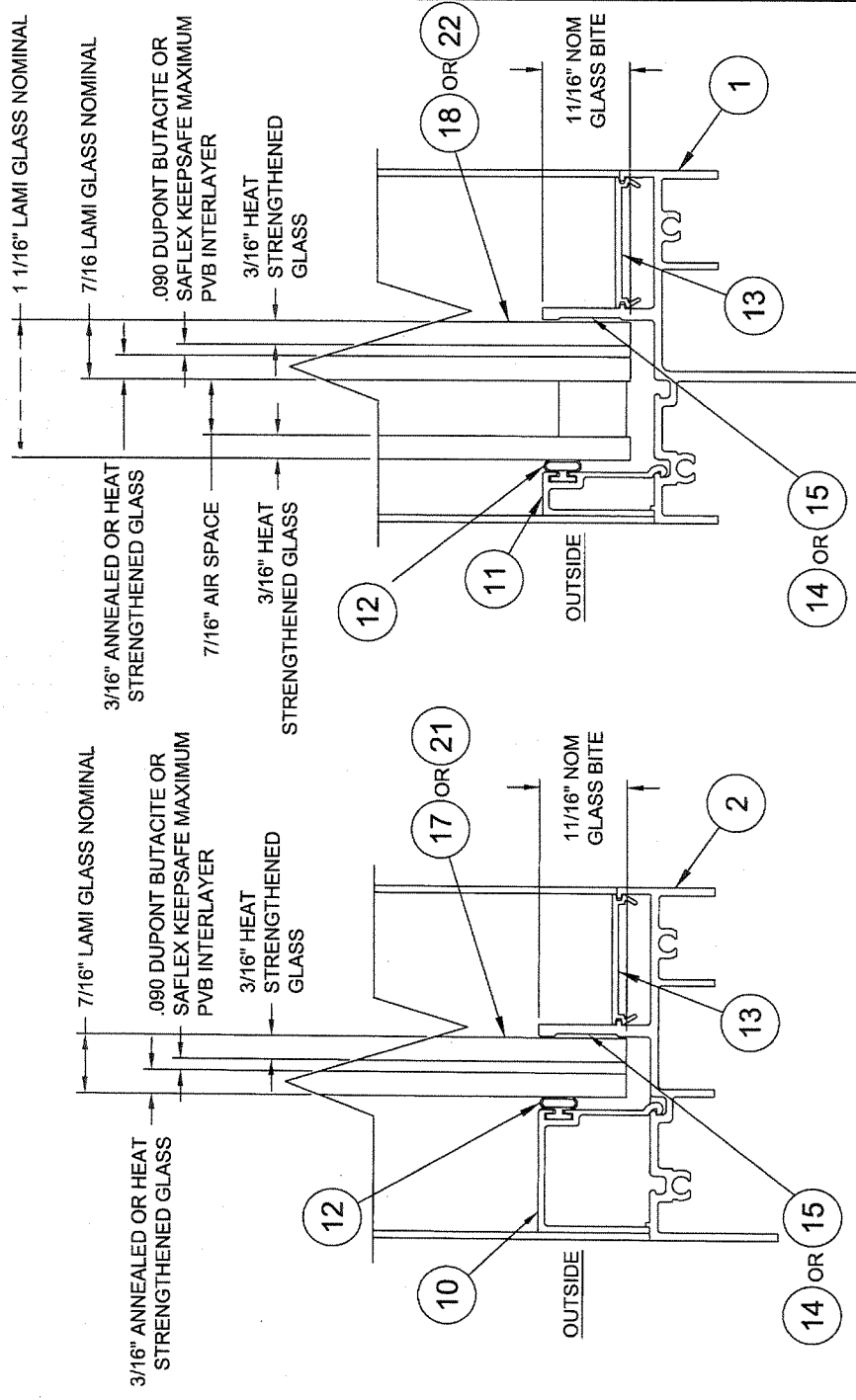
7. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, CURRENT EDITION INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).

NOA DRAWING TABLE OF CONTENTS	
GENERAL NOTES	SHEET
GLAZING DETAILS	1
ELEVATIONS, FLANGED	2
ELEVATIONS, INTEGRAL FIN	3
DESIGN PRESSURES FLANGED	4
DESIGN PRESSURES FLANGED	5
SECTIONS, FLANGED	6
CORNER ASSY, FLANGED	7
SECTIONS, INTEGRAL FIN	8
CORNER ASSY, INTEGRAL FIN	8
EXTRUSION PROFILES	9
PARTS LIST	9
ANCHORAGE	10-12

PRODUCT REVISED
in compliance with the Florida
Building Code
Acceptance No. 07-0418-06
Expiration Date FEB 15, 2009
By *Manuel Diaz*
Miami/Dade Product Control
Division

Revised By:	Date:	Revisions:	Revised By:	Date:
F.K.	4/14/07	CHG. NOTE 2 TO REF. ASTM E 1300-02 AND REVISE ANCHORAGE	F.K.	12/15/03
F.K.	12/15/03	NOTE 3. ADD REFERENCES TO NOTE 6 AND ADD NOTE 7.	F.K.	7/14/03
F.K.	7/14/03	REDUCE ANCHOR SPACING		

1070 TECHNOLOGY DRIVE NOKOMIS, FL 34278 P.O. BOX 1929 NOKOMIS, FL 34274	PGT Visibly Better	Notes & Table of Contents ALUMINUM PICTURE WINDOW, IMPACT	Sheet NTS	1 of 12	Drawing No. PW-701	Rev. B
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1 1/16" LAMI I.G. GLAZING DETAIL
 FLANGED OR INTEGRAL FIN FRAME
 (INTEGRAL FIN FRAME SHOWN)

7/16" LAMI GLAZING DETAIL
 FLANGED OR INTEGRAL FIN FRAME
 (FLANGE FRAME SHOWN)

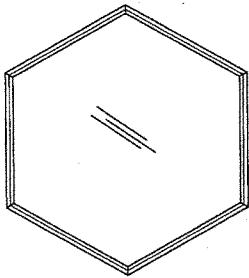
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 07-0418.06
 Expiration Date: FEB. 19, 2009
 By: *Maribel Zera*
 Miami/Dade Product Control
 Division

Robert L. Clark, P.E.
 4/13/07
 PE #38712
 Structural

Revised By:		Date:	Revisions:	Description:	
Revised By:	F.K.	4/4/07	Revisions:	GLAZING DETAILS	
Revised By:	F.K.	12/15/03	Revisions:	ALUMINUM PICTURE WINDOW, IMPACT	
Drawn By:	F.K.	7/14/03	Checked By:	PW-701	
			Revisions:	Sheet	Page
			Revisions:	2 of 12	4259-4
			Revisions:	FULL	B

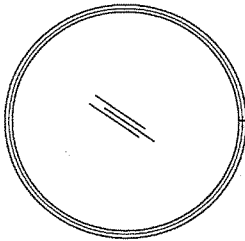


1070 TECHNOLOGY DRIVE
 NOKOMIS, FL 34275
 P.O. BOX 1629
 NOKOMIS, FL 34274



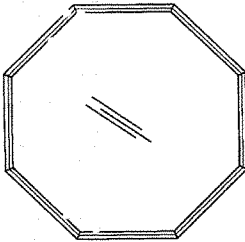
HEXAGON

MAX. SIZE = 60" BETWEEN FLATS
OR MAX. AREA = 21.65 SQ. FT.



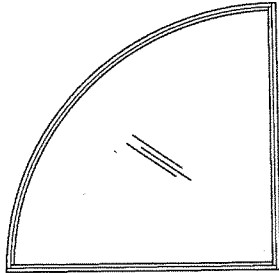
FULL CIRCLE

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OR MAX. AREA = 19.63 SQ. FT.



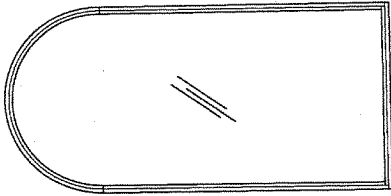
OCTAGON

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OR MAX. AREA = 20.71 SQ. FT.



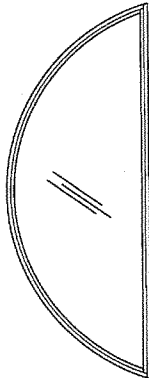
QUARTER CIRCLE

MAX. SIZE = 68" X 68"
OR MAX. AREA = 25.22 SQ. FT.



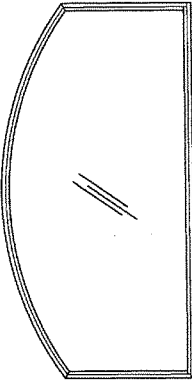
ARCH

MAX. SIZE = 48" X 96"
OR MAX. AREA = 30.28 SQ. FT.



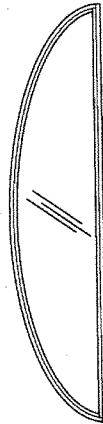
FAN

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OR MAX. AREA = 24.47 SQ. FT.



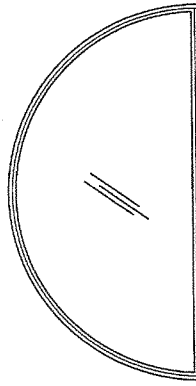
EYEBROW

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OR MAX. AREA = 31.99 SQ. FT.



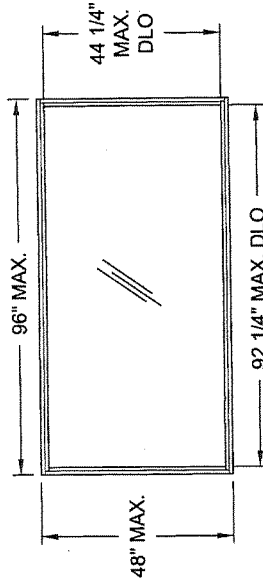
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OR MAX. AREA = 31.99 SQ. FT.



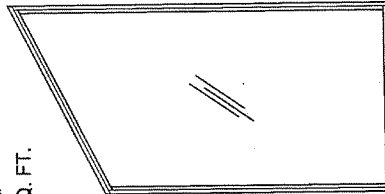
HALF CIRCLE

MAX. SIZE = 96" X 48"
OR MAX. AREA = 25.13 SQ. FT.



RECTANGLE

MAX. SIZE = 48" X 96"
OR MAX. AREA = 32.00 SQ. FT.



TRAPEZOID

MAX. SIZE = 48" X 96"
OR MAX. AREA = 31.99 SQ. FT.

NOTE: B

FOR ANCHORAGE INFORMATION SEE SHEETS 10 THROUGH 12.

Revised By:	Date:	Revisions:	Update Anchorage Note
F.K.	4/4/07	B	
F.K.	12/15/03	A	NO CHANGE THIS SHEET
Checked By:	Date:	Checked By:	Date:
F.K.	7/14/03		

Description: FLANGED ELEVATIONS			
The ALUMINUM PICTURE WINDOW, IMPACT			
Scale:	Sheet:	Drawn By:	Rev:
NTS	3 of 12	4259-4	B

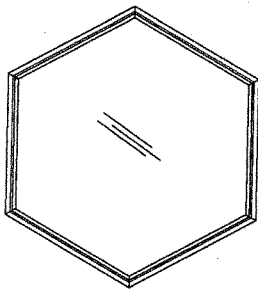
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275	
P.O. BOX 1529 NOKOMIS, FL 34274	

PGI	
Visibly Better	

PRODUCT REVISED
in compliance with the Florida
Building Code
Approval No. 07-0418.06
Expiration Date FEB. 15, 2009
By *Michael D. Clark*
Michael D. Clark, P.E.
Director

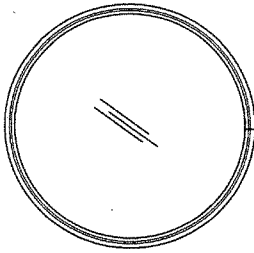
Robert L. Clark, P.E.
PE #39712
Structural

4/10/07



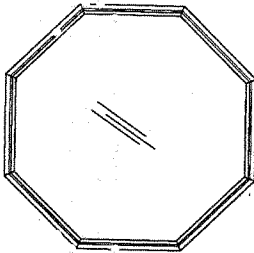
HEXAGON

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OR MAX. AREA = 21.65 SQ. FT.



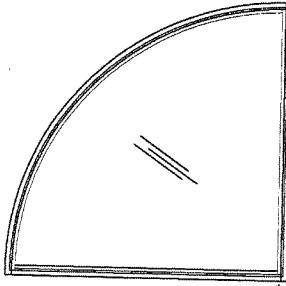
FULL CIRCLE

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OR MAX. AREA = 19.63 SQ. FT.



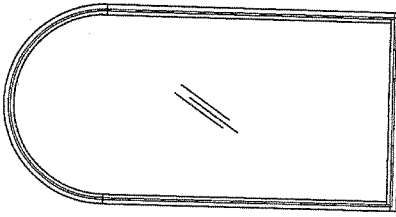
OCTAGON

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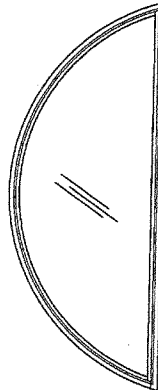
QUARTER CIRCLE

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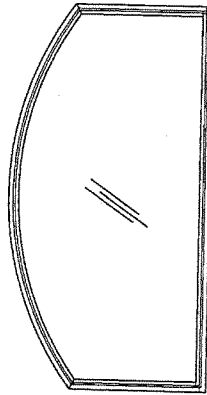
ARCH

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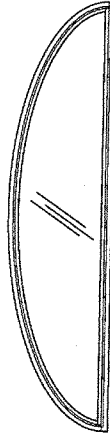
FAN

MAX. SIZE = 96" X 47"
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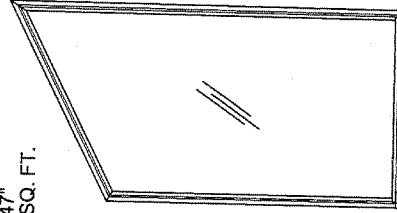
EYEBROW

MAX. SIZE = 96" X 48"
OR MAX. AREA = 31.99 SQ. FT.



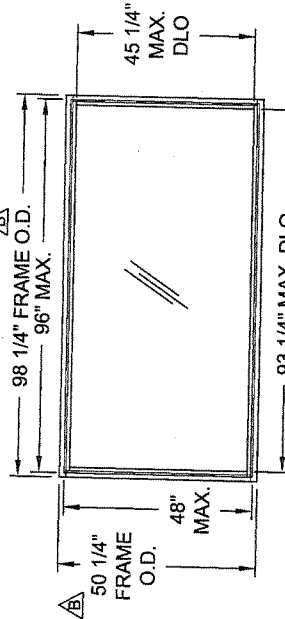
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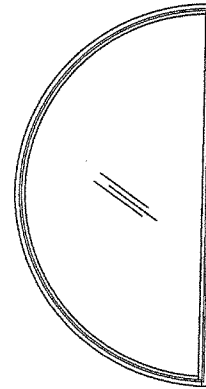
TRAPEZOID

MAX. SIZE = 48" X 96"
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RECTANGLE

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OR MAX. AREA = 32.00 SQ. FT.



HALF CIRCLE

MAX. SIZE = 96" X 48"
OR MAX. AREA = 25.13 SQ. FT.

NOTE:

FOR ANCHORAGE INFORMATION SEE SHEETS 10 THROUGH 12.

Revised By:	Date:	Revised By:	Date:	Revised By:	Date:	Revised By:	Date:
F.K.	4/4/07	F.K.	12/15/03	F.K.	7/14/03		
ADD FRAME O.D. DIMENSIONS AND UPDATE ANCHORAGE NOTE				NO CHANGE THIS SHEET			
Checked By:				Date:			
F.K.				7/14/03			
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274							
Visibly Better							
INTEGRAL FIN ELEVATIONS							
ALUMINUM PICTURE WINDOW, IMPACT							
PGI-701							
NTS							
4 of 12							
4259-4							
B							

PRODUCT EVALUATION
as complying with the Florida
Building Code
Acceptance No. 07-0418, 06
Expiration Date 03/13/2009
By
Aluminum Date Product Control
Division

Robert L. Clark, P.E.
PE #89712
Structural

TABLE 1. DESIGN PRESSURES, FLANGED WINDOWS (DIMENSIONS ARE TIP-TO-TIP)

GLASS TYPES: A. 7/16" LAMINATED GLASS (3/16" A, .090, 3/16HS)
 B. 7/16" LAMINATED GLASS (3/16" HS, .090, 3/16HS)
 C. 1 1/16" LAMI I.G., 3/16HS, 7/16" SPACE, 7/16" LAMI (x/16" A, .090, 3/16" HS)
 D. 1 1/16" LAMI I.G., 3/16HS, 7/16" SPACE, 7/16" LAMI (x/16" HS, 0+0, 3/16" HS)

WINDOW "X" DIM.	GLASS TYPE	WINDOW "Y" DIMENSION									
		28.500	34.000	39.500	45.000	46.500	48.000	48.000	48.000	48.000	48.000
49.000	A,B,C,D	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	AREA	9.70 SQ.FT.	11.57 SQ.FT.	13.44 SQ.FT.	15.31 SQ.FT.	15.82 SQ.FT.	16.33 SQ.FT.	16.33 SQ.FT.	16.33 SQ.FT.	16.33 SQ.FT.	16.33 SQ.FT.
54.500	A,B,C,D	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	AREA	10.79 SQ.FT.	12.87 SQ.FT.	14.95 SQ.FT.	17.03 SQ.FT.	17.60 SQ.FT.	18.17 SQ.FT.	18.17 SQ.FT.	18.17 SQ.FT.	18.17 SQ.FT.	18.17 SQ.FT.
60.000	A,B,C,D	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	AREA	11.88 SQ.FT.	14.17 SQ.FT.	16.46 SQ.FT.	18.75 SQ.FT.	19.38 SQ.FT.	20.00 SQ.FT.	20.00 SQ.FT.	20.00 SQ.FT.	20.00 SQ.FT.	20.00 SQ.FT.
65.500	A,B,C,D	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	AREA	12.96 SQ.FT.	15.47 SQ.FT.	17.97 SQ.FT.	20.47 SQ.FT.	21.15 SQ.FT.	21.83 SQ.FT.	21.83 SQ.FT.	21.83 SQ.FT.	21.83 SQ.FT.	21.83 SQ.FT.
71.000	A,B,C,D	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	AREA	14.05 SQ.FT.	16.76 SQ.FT.	19.48 SQ.FT.	22.19 SQ.FT.	22.93 SQ.FT.	23.67 SQ.FT.	23.67 SQ.FT.	23.67 SQ.FT.	23.67 SQ.FT.	23.67 SQ.FT.
76.500	A	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	B,C,D	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
82.000	AREA	15.14 SQ.FT.	18.06 SQ.FT.	20.98 SQ.FT.	23.91 SQ.FT.	24.70 SQ.FT.	25.50 SQ.FT.	25.50 SQ.FT.	25.50 SQ.FT.	25.50 SQ.FT.	25.50 SQ.FT.
	A	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	B,C,D	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
87.500	AREA	16.23 SQ.FT.	19.36 SQ.FT.	22.49 SQ.FT.	25.63 SQ.FT.	26.48 SQ.FT.	27.33 SQ.FT.	27.33 SQ.FT.	27.33 SQ.FT.	27.33 SQ.FT.	27.33 SQ.FT.
	A	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	C	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
93.000	B,D	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	AREA	17.32 SQ.FT.	20.66 SQ.FT.	24.00 SQ.FT.	27.34 SQ.FT.	28.26 SQ.FT.	29.17 SQ.FT.	29.17 SQ.FT.	29.17 SQ.FT.	29.17 SQ.FT.	29.17 SQ.FT.
96.000	A	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	C	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
99.000	B,D	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	AREA	18.41 SQ.FT.	21.96 SQ.FT.	25.51 SQ.FT.	29.06 SQ.FT.	30.03 SQ.FT.	31.00 SQ.FT.	31.00 SQ.FT.	31.00 SQ.FT.	31.00 SQ.FT.	31.00 SQ.FT.
102.000	A	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	C	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
105.000	B,D	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0	+80.0	-80.0
	AREA	19.00 SQ.FT.	22.67 SQ.FT.	26.33 SQ.FT.	30.00 SQ.FT.	31.00 SQ.FT.	32.00 SQ.FT.	32.00 SQ.FT.	32.00 SQ.FT.	32.00 SQ.FT.	32.00 SQ.FT.

NOTES: A

- ALL MAXIMUM SIZES SHOWN ON SHEET 3 ARE QUALIFIED TO THE PRESSURE OF A32 SQ. FT. UNIT IN TABLE 1.
- ALL SHAPES LESS THAN THE MAXIMUM SIZE, QUALIFY TO PRESSURE FOR THE MAXIMUM SIZE LISTED IN TABLE 1, OR TO THE PRESSURE FOR THE SMALLEST RECTANGULAR SIZE IN TABLE 1, WHICH THEIR OVERALL WIDTH AND HEIGHT DIMENSIONS COMPLETELY FIT WITHIN.
- SEE SHEET 10 THROUGH 12 FOR ANCHORAGE INFORMATION.

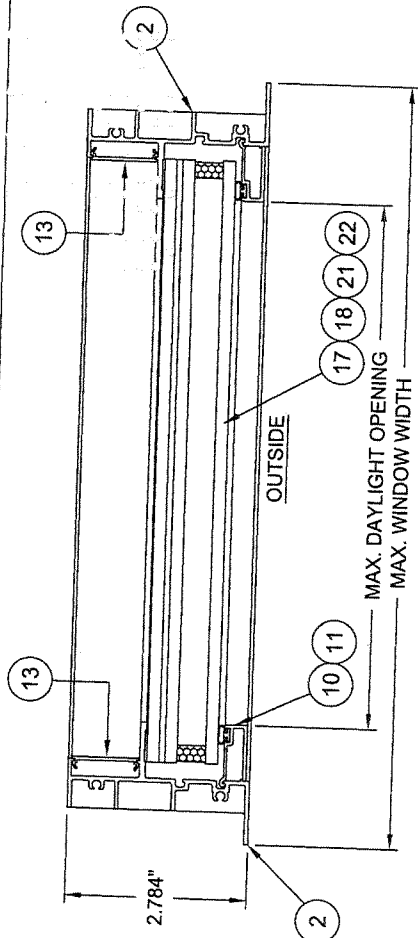
Revised By: _____ Date: _____	Revised By: _____ Date: _____	Revised By: _____ Date: _____	Revised By: _____ Date: _____
Revised By: F.K. Date: 4/4/07	Revised By: B Date: 4/4/07	Revised By: A Date: 12/15/03	Revised By: A Date: 7/14/03
UPDATE DESIGN PRESSURES PER ASTM E 1363-02 AND NOTES. CLEAN UP TABLE 1 DESCRIPTION AND HEADINGS.			
CHANGE NOTE 1 ANCHORING WITH #12 SCREWS			
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274		PGI Visibly Better	
Description: FLANGED UNIT DESIGN PRESSURES		The ALUMINUM PICTURE WINDOW, IMPACT	
Sheet: NTS	5 of 12	Drawing No: PW-701	Rev: B

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 07-0418.06
 Expiration Date FEB 19, 2009
 By: [Signature]
 [Signature]
 [Signature]

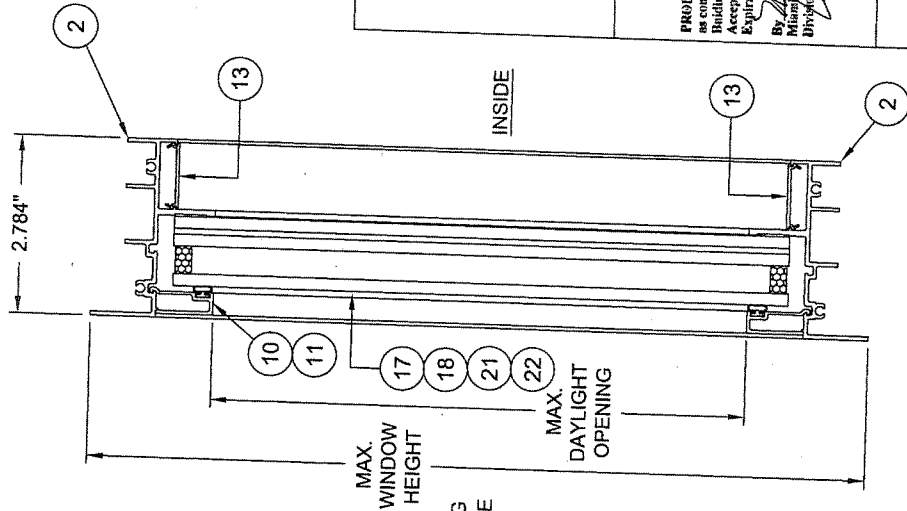
Robert L. Clark, P.E.
 PE #39712
 Structural

NOTES: B

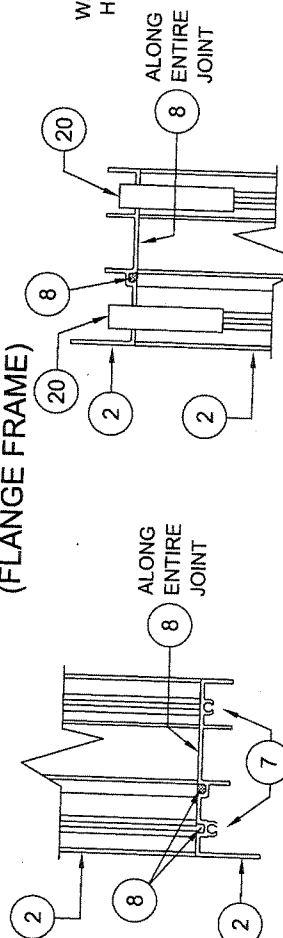
Robert L. Clark, P.E.
PE #38712
Structural



**HORIZONTAL SECTION
(FLANGE FRAME)**

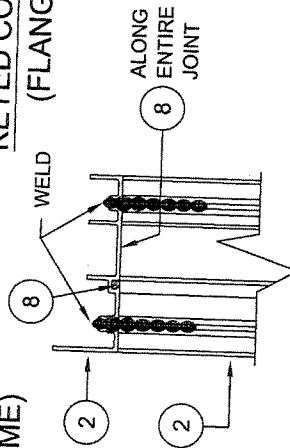


**VERTICAL SECTION
(FLANGE FRAME)**



**SCREWED CORNER ASS'Y
(FLANGE FRAME)**

**KEYED CORNER ASS'Y
(FLANGE FRAME)**



WELDED CORNER ASS'Y (FLANGE FRAME)

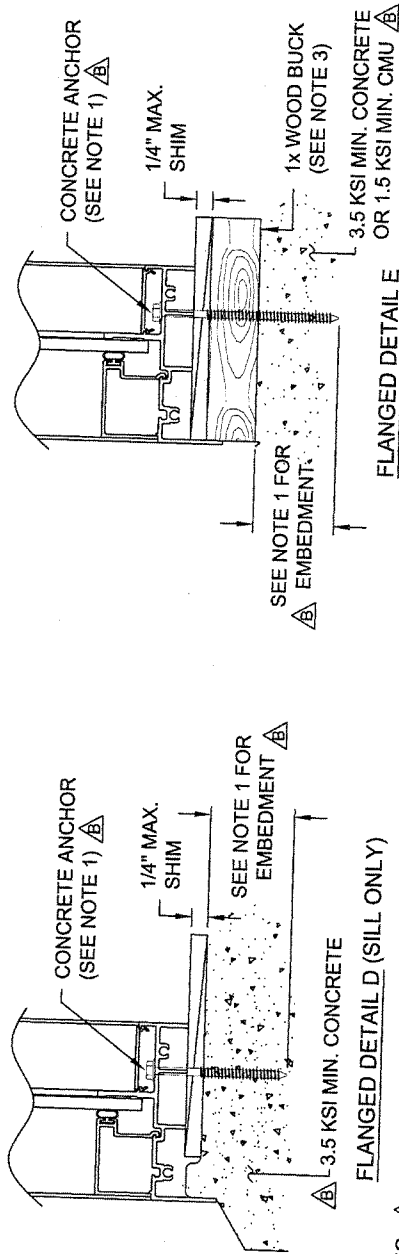
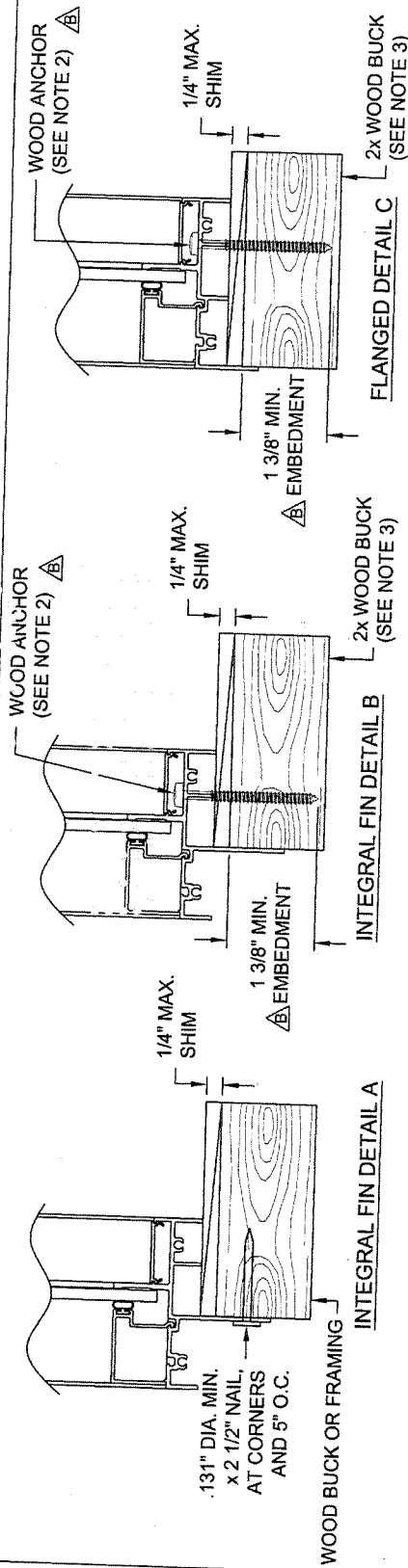
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0418-06
Expiration Date FEB. 19, 2009
By *Michael Della*
Miami Dade Product Control
Division

P. J. Clark
4/13/09
Robert L. Clark, P.E.
PE #39712
Structural

Revised By:	Date:	Revisions:	Revised By:	Date:	Revisions:
F.K.	4/4/07	B	NO CHANGE THIS SHEET		
F.K.	12/15/03	A	NO CHANGE THIS SHEET		
Drawn By:	Date:	Checked By:	Date:		
F.K.	7/14/03				

1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1529 NOKOMIS, FL 34274	PGT Visibly Better	Sections: SECTIONS & CORNER ASS'Y, FLANGED	Sheet: 7 of 12	Drawn No: 4259-4	Rev: B
		Topic: ALUMINUM PICTURE WINDOW, IMPACT			
		Scale: PW-701			

Robert L. Clark, P.E.
PE #39712
Structural



NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 1/4" ELCO TAPCONS, EMBEDDED 1 3/8" MIN., 5/16" ELCO TAPCONS EMBEDDED 1 3/4" MIN. OR 1/4" SS4 CRETE-FLEX EMBEDDED 1 3/4" MIN. DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 1 3/4" MIN.
2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #12 OR #14 STEEL SCREWS (G5) OR 1/4" SS4 CRETE-FLEX.
3. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 1x WOOD BUCKS ARE OPTIONAL IF UNIT CAN BE INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
4. FOR ATTACHMENT TO ALUMINUM: THE MATERIAL SHALL BE A MINIMUM STRENGTH OF 6063-T5 AND A MINIMUM OF 1/8" THICK. THE ALUMINUM STRUCTURAL MEMBER SHALL BE OF A SIZE TO PROVIDE FULL SUPPORT TO THE WINDOW FRAME SIMILAR TO THAT SHOWN IN THESE DETAILS FOR 2x WOOD BUCKS. THE ANCHOR SHALL BE A #12 SHEET METAL SCREW WITH FULL ENGAGEMENT INTO THE ALUMINUM. IF THESE CRITERIA ARE MET, THE RESPECTIVE DESIGN PRESSURES AND ANCHORAGE SPACING FOR TAPCONS MAY BE USED.

1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275 P.O. BOX 1629 NOKOMIS, FL 34274		PGT Visibly Better		ANCHORAGE - HEAD, SILL AND JAMBS ALUMINUM PICTURE WINDOW, IMPACT		Scale NTS		Sheet 10 of 12		Drawing No. 4259-4		Rev B
Revised By: F.K.	Date: 4/4/07	Revisions: B	Revised By: F.K.	Date: 12/15/03	Revisions: A	Revised By: F.K.	Date: 7/14/03	CHANGE NOTE 1 AND FASTENER SPACING		Checked By:		Date:

PRODUCT REVISED
in compliance with the Florida
Building Code
Amendment No. 07-04/2.06
Expiration Date FEB. 19, 2009
By: [Signature]
Miami-Dade Product Control
Division

[Signature]
4/13/07
Robert L. Clark, P.E.
PE #39712
Structural

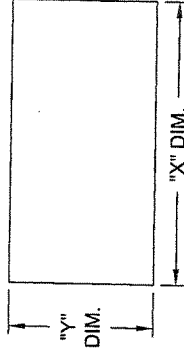
TABLE 3. ANCHOR ON-CENTER DIMENSION BY ANCHOR TYPE - WOOD SUBSTRATE

WIND. "X" DIM.	WINDOW "Y" DIMENSION											
	15.0"			20.0"			25.0"			30.0"		
	1.2.4.	1.2.4.	1.2.4.	1.2.4.	1.2.4.	1.2.4.	1.2.4.	1.2.4.	1.2.4.	1.2.4.	1.2.4.	1.2.4.
49.0"	O.C.	X	Y	X	Y	X	X	Y	X	Y	X	Y
54.5"	O.C.	X	Y	X	Y	X	X	Y	X	Y	X	Y
60.0"	O.C.	X	Y	X	Y	X	X	Y	X	Y	X	Y
65.5"	O.C.	X	Y	X	Y	X	X	Y	X	Y	X	Y
71.0"	O.C.	X	Y	X	Y	X	X	Y	X	Y	X	Y
76.5"	O.C.	X	Y	X	Y	X	X	Y	X	Y	X	Y
82.0"	O.C.	X	Y	X	Y	X	X	Y	X	Y	X	Y
87.5"	O.C.	X	Y	X	Y	X	X	Y	X	Y	X	Y
93.0"	O.C.	X	Y	X	Y	X	X	Y	X	Y	X	Y
96.0"	O.C.	X	Y	X	Y	X	X	Y	X	Y	X	Y

ANCHOR TYPES:
1. #12 STEEL SCREW (G5)
2. #14 STEEL SCREW (G5)
3. 1/4" ELCO TAPCON
4. 1/4" ELCO SS4 CRETEFLEX
5. 5/16" ELCO TAPCON

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-0418-06
Expiration Date FEB 13, 2009
By: [Signature]
Product Control
Dymon

[Signature]
4/13/09
Robert L. Clark, P.E.
PE #38712
Structural



NOTES:
1. ANCHOR SPACING FOR SQUARE AND RECTANGULAR WINDOWS:
MAX. ON-CENTER (O.C.) "X" AND "Y" DIMENSION FROM TABLE 3 (MIN. 2 1/8" O.C. CONCRETE SUBSTRATE)
MAX. 8 1/2" FROM CORNERS

2. ANCHOR SPACING FOR WINDOW SHAPES OTHER THAN SQUARE OR RECTANGULAR:
FIND THE SMALLEST WINDOW SIZE IN TABLE 3 WHICH THE OVERALL WIDTH AND HEIGHT DIMENSIONS COMPLETELY FIT WITHIN AND USE THE ON-CENTER DIMENSION FOR THE RESPECTIVE ANCHOR TYPE AROUND THE PERIMETER OR CIRCUMFERENCE, NOT EXCEEDING 8 1/2" FROM ANY CORNER.

Revised By: F.K.	Date: 4/14/07	Revised By: B	Date:
Drawn By: F.K.	Date: 7/14/03	Checked By:	Date:
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34278 P.O. BOX 1539 NOKOMIS, FL 34274			
PGI Visibly Better			
ANCHORAGE, WOOD SUBSTRATE ALUMINUM PICTURE WINDOW, IMPACT			
Sheet: NTS	Drawn No: 4259-3	Rev: 11 of 12	B

[illegible]

1. ANCHOR SPACING FOR SQUARE AND RECTANGULAR WINDOWS:

2. ANCHOR SPACING FOR WINDOW SHAPES OTHER THAN SQUARE OR RECTANGULAR:

By	Date	Revision

DIMENSION FOR THE RESPECTIVE ANCHOR TYPE AROUND THE PERIMETER OR CIRCUMFERENCE, NOT EXCEEDING 8 1/2" FROM ANY CORNER.

By: _____	Date: _____	By: _____	Date: _____
Revised: _____	By: _____	Revised: _____	By: _____
4/4/07	B	4/4/07	B
Year	Revision	Year	Revision
NEW SHEET		NEW SHEET	
1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275		1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275	
			
Description: ANCHORAGE, CONCRETE SUBSTRATE		Description: ALUMINUM PICTURE WINDOW, IMPACT	
Title:		Title:	
Scale:		Scale:	

[illegible]

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 07-D412-06
Expiration Date FEB 15, 2009
By: Manuel Perez
District Product Control
Division

Robert L. Clark, P.E.
PE #39712
Structural



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

www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

PGT Industries
1070 Technology Drive
Nokomis, FL 3427

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: 1"x Std. Wall-Aluminum Tube Clipped Mullion-L.M.I.

APPROVAL DOCUMENT: Drawing No. 6220, titled "1" STD. Wall, Elevations Aluminum Tube Clipped Mullion", sheets 1 through 5 of 5, prepared by PGT Industries, signed and sealed by Robert L. Clark, P.E., dated 04/28/00, with last revision on 05/30/06, bearing the Miami-Dade County Product Control Division stamp with last the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

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

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 the 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 and renews NOA # 04-0528.04 and, consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



J. Gascon
6/28/06

NOA No 06-0125.06
Expiration Date: June 28, 2011
Approval Date: July 20, 2006
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

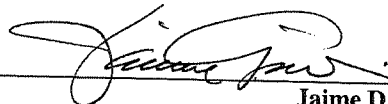
1. Manufacturer's die drawings and sections.
2. Drawing No **6220**, Sheets 1 through 5 of 5, titled "1" STD. Wall, Elevations Aluminum Tube Clipped Mullion, prepared by PGT Industries, dated 04/28/00, with last revision on 05/30/06, signed and sealed by Robert L. Clark, P.E.

B. TESTS

1. Test reports on 1) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
2) Large Missile Impact Test, FBC, TAS 201-94
3) Cyclic Loading Test, per FBC, TAS 203-94
along with installation diagram of a pair of fixed alum. windows (OO configuration) 60" x 54" mulled together with a 1x 2 x std. wall mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2902**, dated 01/05/01, signed and sealed by Antonio Acevedo, P.E.
"Submitted under NOA# 04-0528.04"
2. Test reports on 1) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
2) Large Missile Impact Test, FBC, TAS 201-94
3) Cyclic Loading Test, per FBC, TAS 203-94
along with installation diagram of a pair of fixed alum. windows (OO configuration) 80" x 76" mulled together with a 1x 4 x std. wall mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2903**, dated 01/05/01, signed and sealed by Antonio Acevedo, P.E.
"Submitted under NOA# 04-0528.04"
3. Test reports on 1) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
2) Large Missile Impact Test, FBC, TAS 201-94
3) Cyclic Loading Test, per FBC, TAS 203-94
along with installation diagram of a pair of fixed alum. windows with a transom lite (O/OO configuration) mulled together with a 1x 2 x 3/4" wall vertical mullion and a 2 x 6" x 1/4" wall horizontal mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2975**, dated 01/23/01, signed and sealed by Antonio Acevedo, P.E.
"Submitted under NOA# 04-0528.04"

C. CALCULATIONS

1. Revised Anchor Calculations and structural analysis, complying with FBC-2004, prepared by PGT Industries, dated 05/30/06, signed and sealed by Robert L. Clark, P.E.



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 06-0125.06
Expiration Date: June 28, 2011
Approval Date: July 20, 2006

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

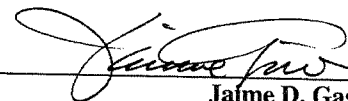
1. Notice of Acceptance No. **04-0721.01** issued to Elco Textron, Inc., for Tapcon Concrete Anchor, dated 03/09/06, expiring on 01/08/11.

F. STATEMENTS

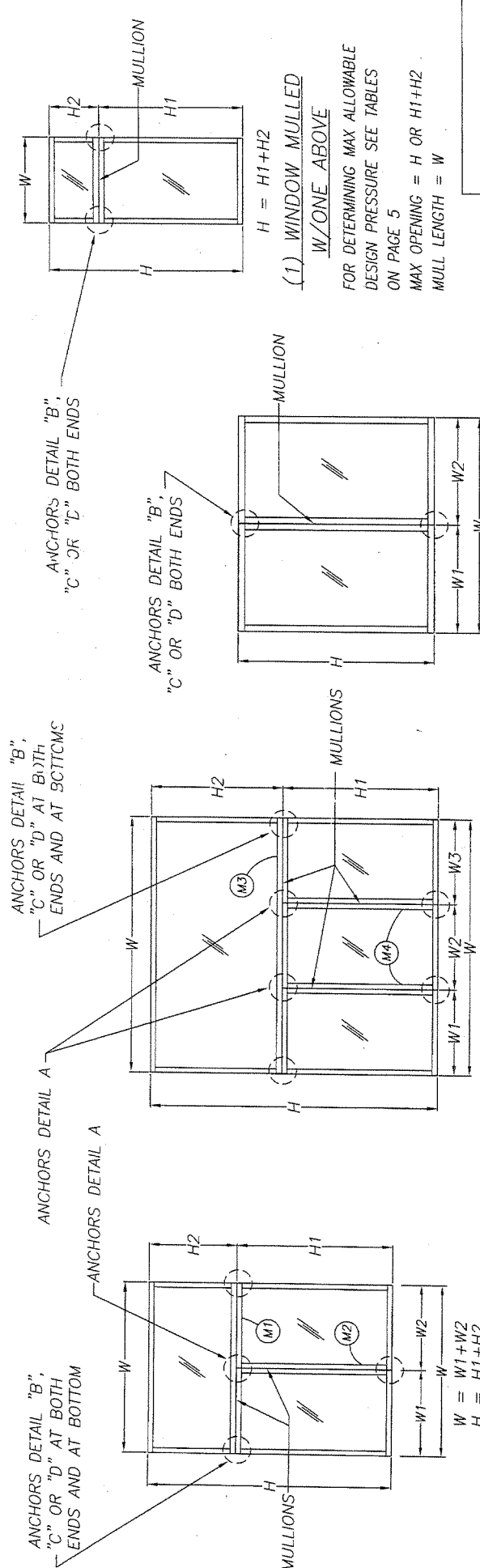
1. Statement letter of conformance and no financial interest, dated 01/23/06, signed and sealed by Robert L. Clark, P.E.

G. OTHER

1. Notice of Acceptance No. **04-0528.04**, issued to PGT Industries for 1" x Std. Wall-Aluminum Tube Clipped Mullions, dated 07/08/04 and expiring on 06/28/06.



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 06-0125.06
Expiration Date: June 28, 2011
Approval Date: July 20, 2006



(1) WINDOW MULLED W/ONE ABOVE
 FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5
 MAX OPENING = H OR H1+H2
 MULL LENGTH = W

(2) WINDOWS MULLED W/ONE ABOVE
 FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5
 MAX OPENING = H OR H1+H2
 MULL LENGTH = W

(3) WINDOWS MULLED TOGETHER
 FOR DETERMINING MAX ALLOWABLE DESIGN PRESSURE SEE TABLES ON PAGE 5
 MAX OPENING = W OR W1+W2
 MULL LENGTH = H

NOTES:
 1. THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE TYPE, QUANTITY AND LOCATION, REFER TO SHEETS 2, 3 AND 5.
 2. WINDOWS AND DOORS OR COMBINATIONS THEREOF MAY BE MULLED TO A MAXIMUM OF (7) UNITS.
 3. MULLIONS ARE APPROVED FOR IMPACT AND NON-IMPACT APPLICATIONS.
 4. REFERENCE - TEST REPORTS: FTL-2902, 2903 AND 2975.
 ELCO TEXTRON NOA: 04-0721.01, 03-0225.05
 ANSI/AF&PA NDS-2001 FOR WOOD CONSTRUCTION
 ADM-2000 ALUMINUM DESIGN MANUAL
 5. THIS PRODUCT HAS BEEN DESIGNED & TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE, 2004 EDITION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
 6. WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

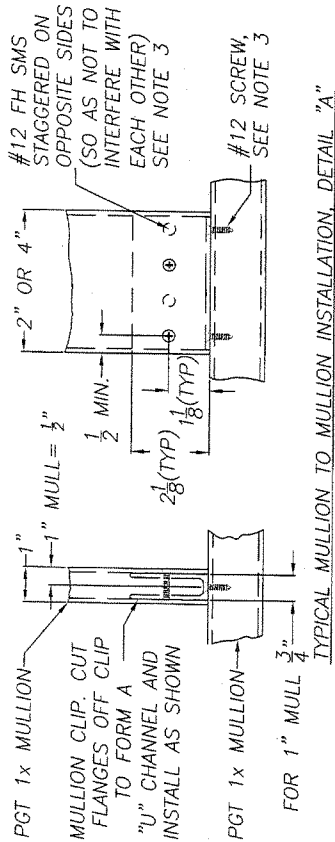
PGT INDUSTRIES
 1070 TECHNOLOGY DRIVE
 NOKOMIS, FL 34275
 P.O. BOX 1529
 NOKOMIS, FL 34274

Robert L. Clark, P.E.
 PE #39712
 Structural

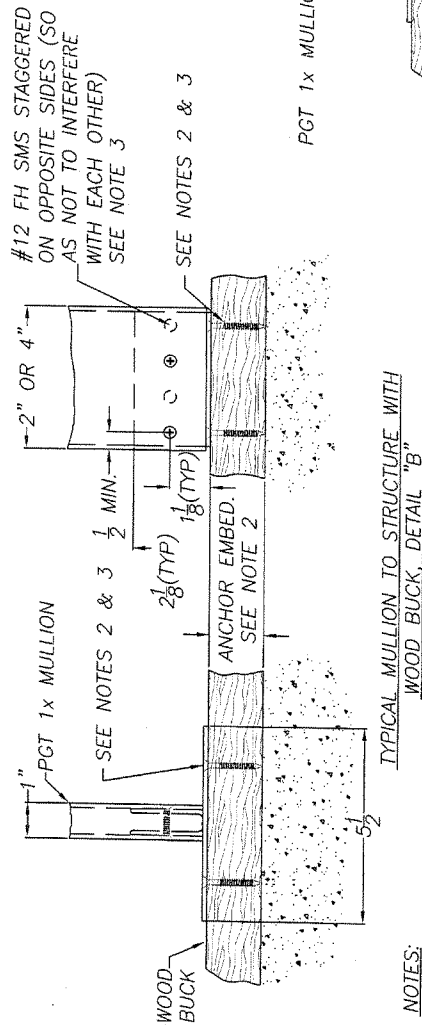
TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revised By: F.K.	Date: 5/30/06	Revisions: D-ADD NOTES 5 & 6
Revised By: F.K.	Date: 5/8/06	Revisions: C-ADD TECH. REFS.
Drawn By: P.J.P.	Date: 4/28/00	
Description: 1" STANDARD WALL, ELEVATIONS		
Title: ALUMINUM TUBE CLIPPED MULLION		
Series/Model: MULLS	Scale: NTS	Sheet: 1 of 5
Drawing No. 6220	Rev: D	

PRODUCT RENEWED
 in compliance with the Florida
 Building Code
 Acceptance No. 06-0125.04
 Expiration Date 06-12-11
 PGT Industries
 Division

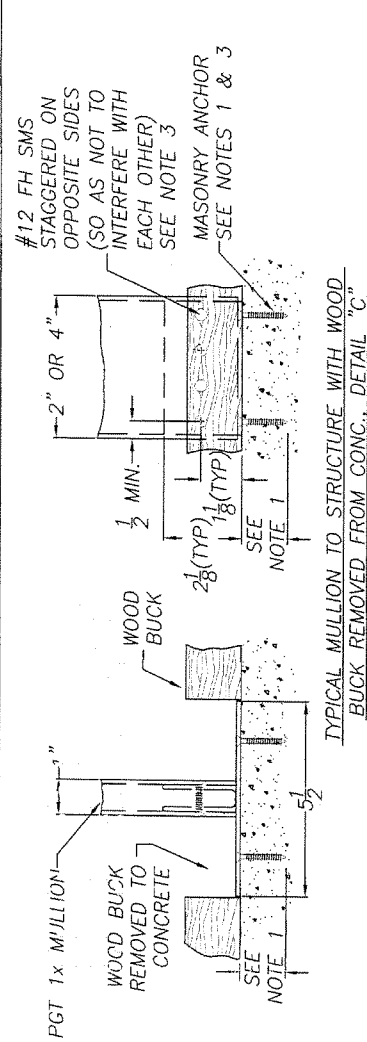


TYPICAL MULLION TO MULLION INSTALLATION, DETAIL "A"

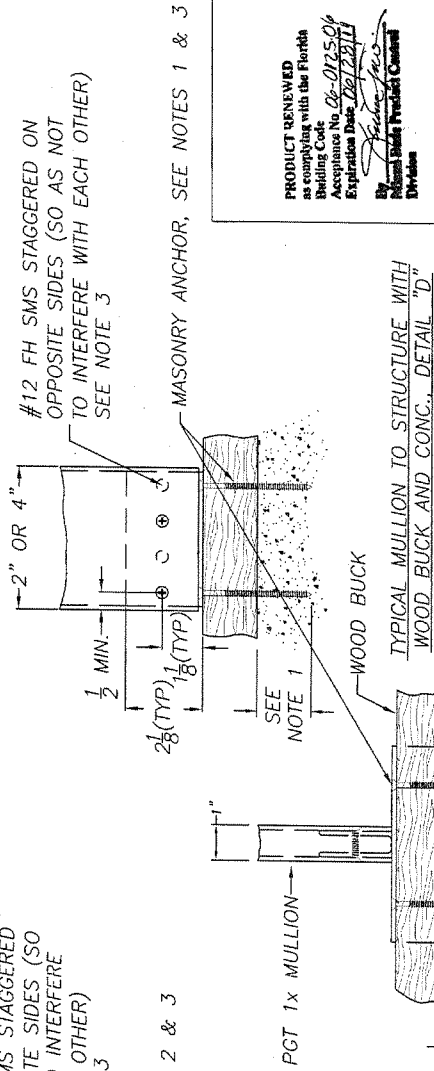


NOTES:

1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX MASONRY ANCHORS. MINIMUM DISTANCE FROM CENTER OF ANCHORS TO CONCRETE EDGE IS 2 1/2". MIN. EMBEDMENT: TAPCONS 1 1/4". CRETE-FLEX 1 3/4"
2. FOR WOOD APPLICATIONS USE #12 SCREWS, ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX MASONRY ANCHORS. MIN. EMBEDMENT 1 1/2"
3. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO
4. FOR MULL SIZE AND QUANTITY OF ANCHORS SEE SHEET 5. FOR ANCHOR LOCATIONS SEE SHEET 3. QUANTITY OF PINNING SCREWS FOR MULL-TO-CLIP TO BE HALF THE QUANTITY OF ANCHORS FROM CLIP-TO-OPENING (MINIMUM OF 2 SCREWS PER CLIP)
5. IMPORTANT: QUANTITY OF ANCHORS SHOWN ABOVE ARE FOR PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS, REFER TO CHARTS 1 AND 2 ON SHEET 5. FIND THE APPLICABLE MULL SIZE AND PRESSURE REQUIRED FOR YOUR SPECIFIC APPLICATION. ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL. ALL STEEL IN CONTACT WITH ALUMINUM TO BE PAINTED OR PLATED.
6. REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK REMOVED FROM CONC., DETAIL "C"



TYPICAL MULLION TO STRUCTURE WITH WOOD BUCK AND CONC., DETAIL "D"

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revised By:	Date:	Revisions:
F.K.	5/30/06	D-MODIFY NOTES 3 & 5
Revised By:	Date:	Revisions:
F.K.	5/8/06	C-ADD EMBED. DETAILS
Drawn By:	Date:	
P.J.P.	4/28/00	



1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

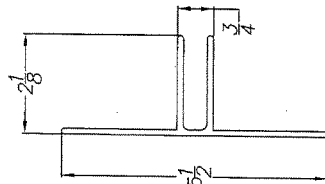
Robert L. Clark, P.E.
5/31/06

Robert L. Clark, P.E.
PE #39712
Structural

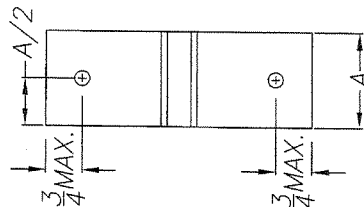
1" STD. WALL, CLIP INSTALLATION DETAIL

Title:	Scale:	Sheet:	Rev:
ALUMINUM TUBE CLIPPED MULLION	NTS	2 of 5	D
Series/Model:	MULLS	Drawing No.	6220

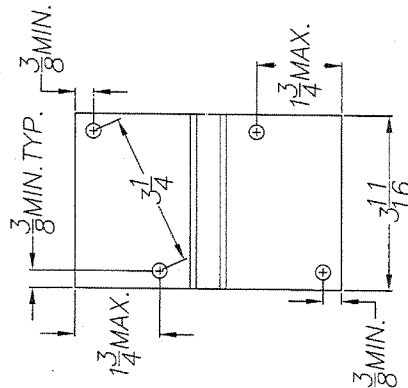
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 06-072504
Expiration Date 06/23/11
By: *Robert L. Clark*
Florida State Product Council
Division



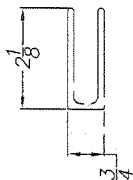
1" MULL CLIP
(CLIP TO OPENING)
EXTRUSION DWG #1099



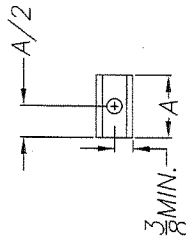
(A) TWO (2) ANCHOR
LOCATIONS



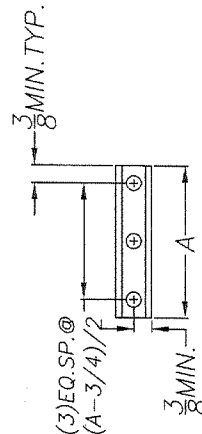
(B) FOUR (4) ANCHOR
LOCATIONS



1" MULL CLIP
W/TABS REMOVED
(CLIP TO MULL)
EXTRUSION DWG #1099



(1) ONE (1) ANCHOR
LOCATION



(2) THREE (3) ANCHOR
LOCATIONS

NOTES:

- IMPORTANT: QUANTITY OF ANCHORS SHOWN ARE FOR PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS, PLEASE REFER TO CHARTS 1 AND 2 ON SHEET 5. FIND THE CORRECT MULL SIZE AND PRESSURE REQUIRED FOR YOUR SPECIFIC APPLICATION.
- 3/8 MIN. EDGE DISTANCE APPLIES TO ALL DIMENSION SHOWN AS MAX.
- REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.

CLIP LENGTH CHART FOR 1x MULL	
MULL SIZE	'A'
1 x 2 x 1/8	1 11/16
1 x 4 x 1/8	3 11/16

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS	
Revised By: F.K.	Date: 5/30/06
Revised By: F.K.	Date: 5/8/06
Drawn By: P.J.P.	Date: 4/28/00
Description: 1" STD. WALL, ANCHOR LOCATIONS	

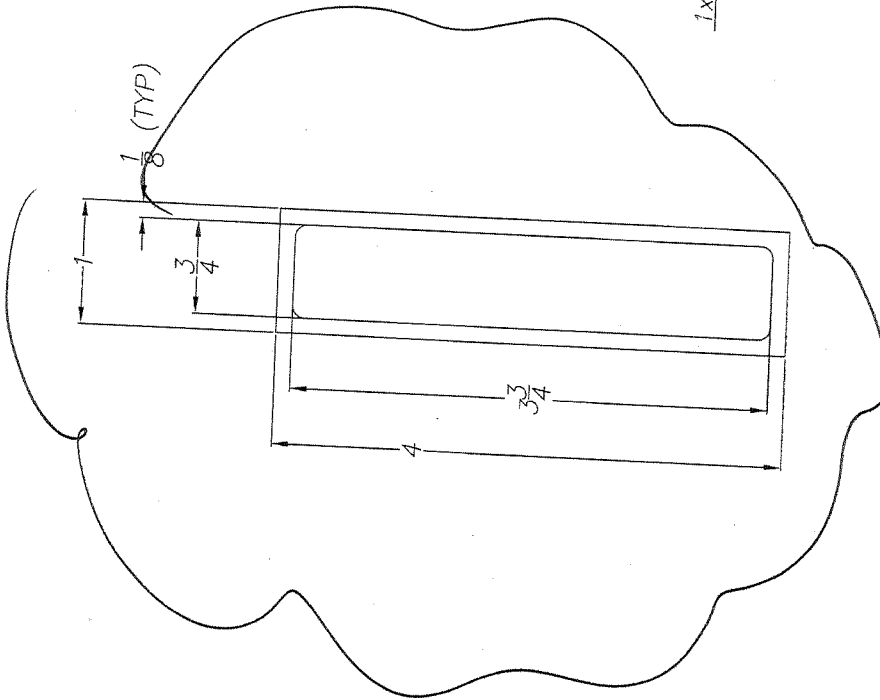


1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Robert L. Clark
5/30/06
Robert L. Clark, P.E.
PE #39712
Structural

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 06-0125-06
Expiration Date 08/22/11
By *Robert L. Clark*
Richard Bush Product Control
Division

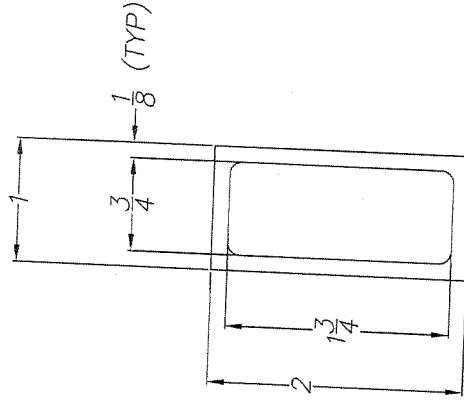
Title: ALUMINUM TUBE CLIPPED MULLION	
Series/Model: MULLS	Scale: NTS
Sheet: 3	of 5
Drawing No. 6220	Rev: D



H, C

1x STD. WALL MULLS

MAT'L: 6063-T6



PRODUCT REVIEWED
as complying with the Florida
Building Code
Acceptance No. 06-0125.04
Expiration Date 06/12/12
By: [Signature]
National Building Products Council
Division

NOTE:

1. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS



1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

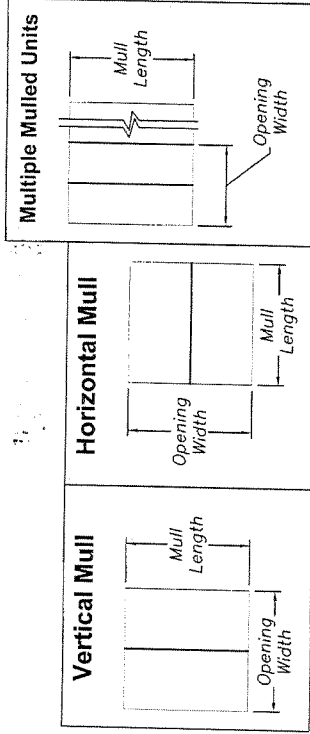
Robert L. Clark, P.E.
PE #39712
Structural

Revised By:	Date:	Revisions:
F.K.	1/9/06	B-NO CHG. THIS SHIT.
Revised By:	Date:	Revisions:
F.K.	5/8/06	C-NO CHG THIS SHIT
Drawn By:	Date:	
P.J.P.	4/28/00	
Description:		
1" STD. WALL, MULLION PROFILES		

Title:		
ALUMINUM TUBE CLIPPED MULLION		
Series/Model:	Scale:	Sheet:
MULLS	1X	4 of 5
Drawing No.		6220
Rev:		D

CHART 1. - 1x2x.125													
QTY. & TYP.	ANCHOR	OPENING WIDTH IN INCHES											
		50	60	70	80	90	100	110	120	130	160	160	160
CLIP TO OPENING	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A
	(2) B	(2) B	(2) B	(2) B	(2) B	(2) B	(2) B	(2) B	(2) B	(2) B	(2) B	(2) B	(2) B
CLIP TO MULL	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B
	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B	(1) B
MULL LENGTH IN INCHES	42	129	115	107	104	103	103	103	103	103	103	103	103
	48	83	73	67	63	61	61	61	61	61	61	61	61
	50.625	70	61	55	52	50	49	49	49	49	49	49	49
	54	57	49	44	41	39	38	38	38	38	38	38	38
	60	41	35	31	29	27	26	25	25	25	25	25	25
	63	35	30	27	24	23	22	21	20	20	20	20	20
	66	30	26	23	21	19	18	18	17	17	17	17	17
	72	23	20	17	16	-	-	-	-	-	-	-	-
	76	20	17	15	-	-	-	-	-	-	-	-	-
	78	18	15	-	-	-	-	-	-	-	-	-	-

CHART 2. - 1x4x.125													
QTY. & TYP.	ANCHOR	OPENING WIDTH IN INCHES											
		50	60	70	80	90	100	110	120	130	160	160	160
CLIP TO OPENING	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A	(2) A
	(4) B	(4) B	(4) B	(4) B	(4) B	(4) B	(4) B	(4) B	(4) B	(4) B	(4) B	(4) B	(4) B
CLIP TO MULL	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B
	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B	(3) B
MULL LENGTH IN INCHES	42	170	170	170	170	170	170	170	170	170	170	170	170
	48	170	170	170	170	170	170	170	170	170	170	170	170
	50.625	170	170	170	170	170	170	170	170	170	170	170	170
	54	170	170	170	170	170	162	158	157	157	157	157	157
	60	170	170	157	143	134	127	124	122	122	122	122	122
	63	170	160	141	128	119	112	108	106	106	106	106	106
	66	170	145	127	115	106	100	96	93	92	92	92	92
	72	142	120	105	95	87	81	77	74	72	71	71	71
	76	120	102	90	81	74	69	65	63	61	59	59	59
	78	111	94	83	74	68	63	60	57	55	53	53	53
MULL LENGTH IN INCHES	84	88	75	65	59	53	49	46	44	42	40	40	40
	90	72	60	53	47	43	39	37	35	33	31	31	31
	96	59	50	43	38	35	32	30	28	27	24	24	24
	108	41	35	30	27	24	22	20	19	18	16	16	16
	111	38	32	28	24	22	20	19	17	16	-	-	-
	144	17	-	-	-	-	-	-	-	-	-	-	-



NOTES:

1. MAXIMUM ALLOWABLE PRESSURE IN PSF.
2. DESIGN IS BASED ON OPENING WIDTH. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME. SEE SHEET 1.
3. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975
4. ANCHOR TYPES: A. ELCO 1/4" TAPCONS, EMBED. (1 1/4") OR 1/4" SS4 CRETE-FLEX, EMBED. (1 3/4") B. #12 SCREWS
5. SEE ANCHOR SPACING DETAILS SHEET 3.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 06-0175-00
Expiration Date 06/2017

TO BE USED ONLY WITH PGT INDUSTRIES' PRODUCTS



1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Robert L. Clark, P.E.
PE #359712
Structural

Rev: D
Drawing No: 6220
Sheet: 5 of 5

Title: 1" STD. WALL, PRESSURE CHARTS 1 & 2

ALUMINUM TUBE CLIPPED MULLION

Series/Model: MULLS Scale: NTS



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
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

PGT Industries
1070 Technology Drive
Nokomis, FL 34275

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 2"x Heavy Wall Aluminum Tube Clipped Mullion - L.M.I.

APPROVAL DOCUMENT: Drawing No. 6223, titled "2" Heavy Wall, Elevations Aluminum Tube Clipped Mullion", sheets 1 through 5 of 5, dated 04/28/00, with revision "C" dated 05/03/06, prepared by PGT Industries, signed and sealed by Robert L. Clark, P.E., bearing the Miami-Dade County Product Control Renewal 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

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 **renews NOA # 04-0528.06** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



J. Gascon
5/16/06

NOA No 06-0125.08
Expiration Date: June 28, 2011
Approval Date: June 08, 2006
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

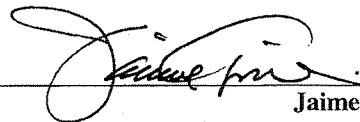
1. Manufacturer's die drawings and sections.
2. Drawing No **6223**, titled 2" Heavy Wall, Elevations Aluminum Tube Clipped Mullion, Sheets 1 through 5 of 5, dated 04/28/00, with revision "**C**" on 05/03/06, prepared by PGT Industries, signed and sealed by Robert L. Clark, P.E.

B. TESTS

1. Test reports on 1) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
2) Large Missile Impact Test, FBC, TAS 201-94
3) Cyclic Loading Test, per FBC, TAS 203-94
along with installation diagram of a pair of fixed aluminum windows (OO configuration) 60" x 54" mullied together with a 1x 2 x std. wall mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2902**, dated 01/05/01, signed and sealed by Antonio Acevedo, P.E.
"Submitted under NOA# 04-0528.06"
2. Test reports on 1) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
2) Large Missile Impact Test, FBC, TAS 201-94
3) Cyclic Loading Test, per FBC, TAS 203-94
along with installation diagram of a pair of fixed aluminum windows (OO configuration) 80" x 76" mullied together with a 1x 4 x std. wall mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2903**, dated 01/05/01, signed and sealed by Antonio Acevedo, P.E.
"Submitted under NOA# 04-0528.06"
3. Test reports on 1) Uniform Load Static Air Pressure Test, per FBC, TAS 202-94
2) Large Missile Impact Test, FBC, TAS 201-94
3) Cyclic Loading Test, per FBC, TAS 203-94 discussed
along with installation diagram of a pair of fixed aluminum windows with a transom lite (O/OO configuration) mullied together with a 1x 2 x 3/4" wall vertical and a 2 x 6" x 1/4" wall horizontal mullion, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-2975**, dated 01/23/01, signed and sealed by Antonio Acevedo, P.E.
"Submitted under NOA# 04-0528.06"

C. CALCULATIONS

1. Revised Anchor Calculations and structural analysis, complying with FBC-2004, prepared by PGT Industries, dated 01/23/06, signed and sealed by Robert L. Clark, P.E.



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 06-0125.08
Expiration Date: June 28, 2011
Approval Date: June 08, 2006

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

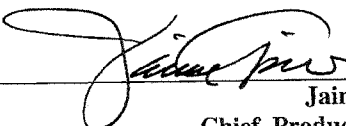
1. None.

F. STATEMENTS

1. Statement letter of conformance, dated 01/23/06, signed and sealed by Robert L. Clark, P.E.
2. Statement letter of no financial interest, dated 01/23/06 and sealed by Robert L. Clark, P.E.

G. OTHER

1. Notice of Acceptance No. **04-0528.06**, issued to PGT Industries for their 2" x Heavy Wall-Aluminum Tube Clipped Mullion, approved on 07/15/04 and expiring on 06/28/06.
2. Letter from consultant dated 04/21/06, stating that the product is in compliance with the Florida Building Code (FBC).



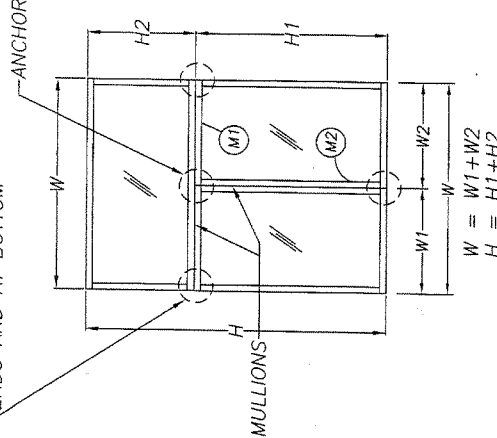
Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 06-0125.08
Expiration Date: June 28, 2011
Approval Date: June 08, 2006

ANCHORS DETAIL "B",
"C" OR "D" AT BOTH
ENDS AND AT BOTTOM

ANCHORS DETAIL "B",
"C" OR "D" AT BOTH
ENDS AND AT BOTTOMS

ANCHORS DETAIL "B",
"C" OR "D" BOTH ENDS

ANCHORS DETAIL "B",
"C" OR "D" BOTH ENDS

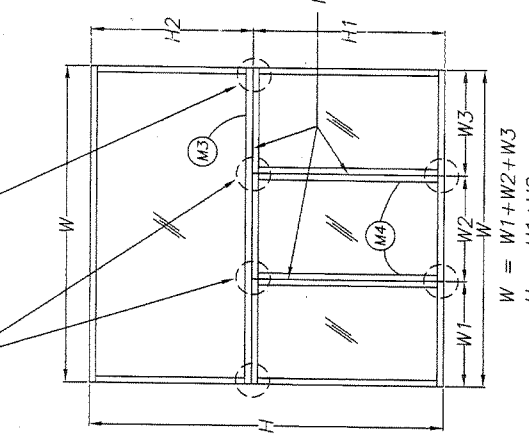


(2) WINDOWS MULLED
W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE
DESIGN PRESSURE SEE TABLES
ON PAGE 5

M1) MAX OPENING = H OR H1+H2
MULL LENGTH = W OR W1+W2

M2) MAX OPENING = W OR W1+W2
MULL LENGTH = H1

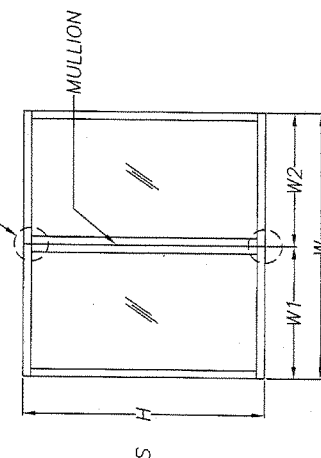


MULTIPLE WINDOWS MULLED
W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE
DESIGN PRESSURE SEE TABLES
ON PAGE 5

M3) MAX OPENING = H OR H1+H2
MULL LENGTH = W OR W1+W2+W3

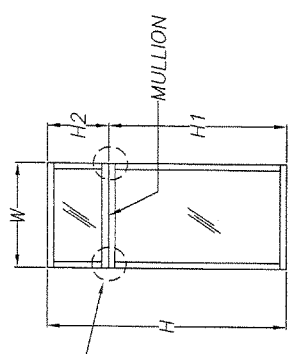
M4) MAX OPENING = W1+W2 OR W2+W3
MULL LENGTH = H1



(2) WINDOWS MULLED TOGETHER

FOR DETERMINING MAX ALLOWABLE
DESIGN PRESSURE SEE TABLES
ON PAGE 5

MAX OPENING = W OR W1+W2
MULL LENGTH = H



(1) WINDOW MULLED
W/ONE ABOVE

FOR DETERMINING MAX ALLOWABLE
DESIGN PRESSURE SEE TABLES
ON PAGE 5

MAX OPENING = H OR H1+H2
MULL LENGTH = W

PRODUCT REVIEWED
as completed with the Florida
Building Code, 2001 Edition
Approved by: 06-0125-08
Expiration Date: 01/28/11
By: [Signature]
Title: [Signature]
Division: [Signature]

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revised By:	Date:	Revisions:
F.K.	1/9/06	B-REVISE ANCHORAGE
F.K.	5/3/06	C-NO CHG THIS SHT
Drawn By:	Date:	
P.J.P.	4/28/00	



1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34475
P.O. BOX 1529
NOKOMIS, FL 34474

Robert L. Clark, P.E.
PE #39712
Structural

5/5/06

NOTES:

1. THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. FOR ANCHORAGE TYPE, QUANTITY AND LOCATION, REFER TO SHEETS 2, 3 AND 5.
2. WINDOWS AND DOORS OR COMBINATIONS THEREOF MAY BE MULLED TO A MAXIMUM OF (7) UNITS.
3. MULLIONS ARE APPROVED FOR IMPACT AND NON-IMPACT APPLICATIONS.
4. REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.

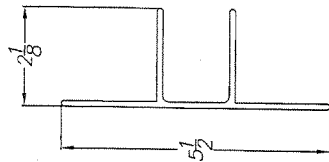
Title: 2" HEAVY WALL, ELEVATIONS

ALUMINUM TUBE CLIPPED MULLION

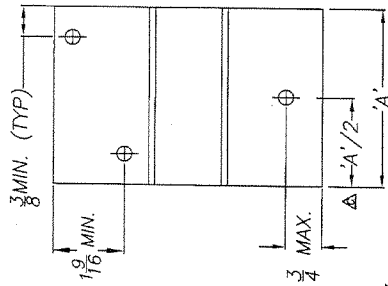
Series/Model:	Scale:	Sheet:	Rev:
MULLS	NTS	1 of 5	C

Drawing No.

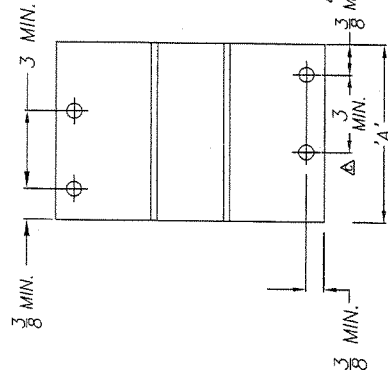
6223



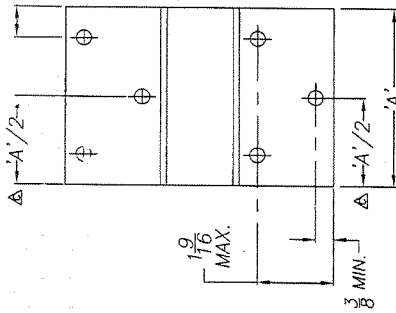
2" MULL CLIP
EXTRUSION DWG #513



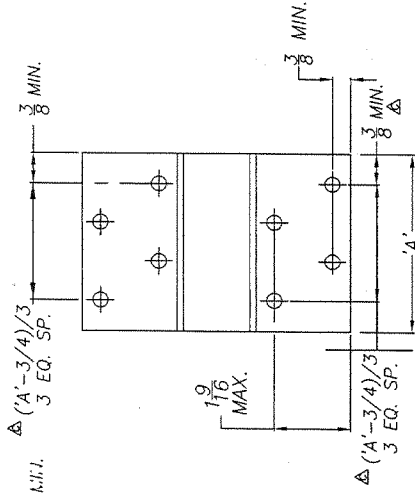
(3) ANCHOR LOCATIONS



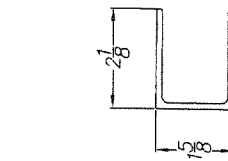
(4) ANCHOR LOCATIONS



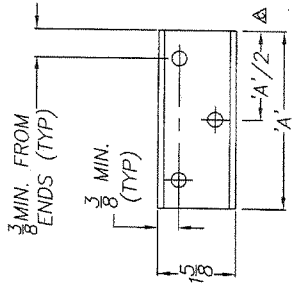
(6) ANCHOR LOCATIONS



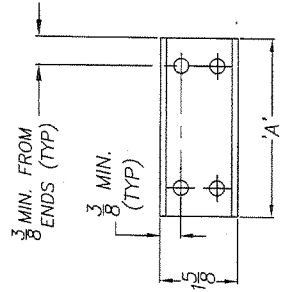
(8) ANCHOR LOCATIONS



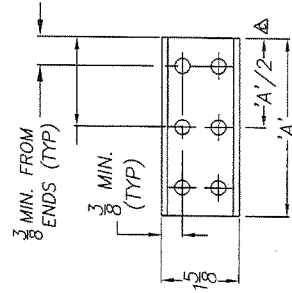
2" MULL CLIP
W/TABS REMOVED
EXTRUSION DWG #513



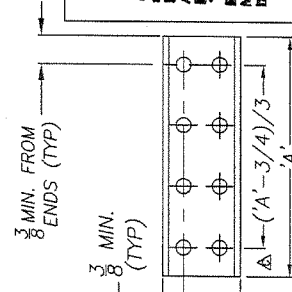
(3) ANCHOR LOCATIONS



(4) ANCHOR LOCATIONS



(6) ANCHOR LOCATIONS



(8) ANCHOR LOCATIONS

PRODUCT REVIEWED
as meeting with the Product
Manager
Approved By: 06-0125.09
Expiration Date: 06-01-11
By: [Signature]
Division

CLIP LENGTH CHART FOR 1x MULL	
MULL SIZE	'A'
2 x 4 x 1/4	3 7/16
2 x 6 x 1/4	5 7/16

- NOTES:
- IMPORTANT: QUANTITY OF ANCHORS SHOWN ARE FOR PICTORIAL REPRESENTATION ONLY. FOR CORRECT QUANTITY OF ANCHORS, PLEASE REFER TO CHARTS 1 AND 2 ON SHEET 5. FIND THE CORRECT MULL SIZE AND PRESSURE REQUIRED FOR YOUR SPECIFIC APPLICATION.
 - REFERENCE TEST REPORTS: FTL-2902, 2903 AND 2975.

[Signature]
5/15/06
Robb L. Clark, P.E.
PL #357.2
Structural

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS

Revised By: F.K.	Date: 1/9/06	Revisions: B-ADD 3-4 HOLE APP.
Revised By: F.K.	Date: 3/3/06	Revisions: C-ADD MISSING DIM.
Drawn By: P.J.P.	Date: 4/28/00	

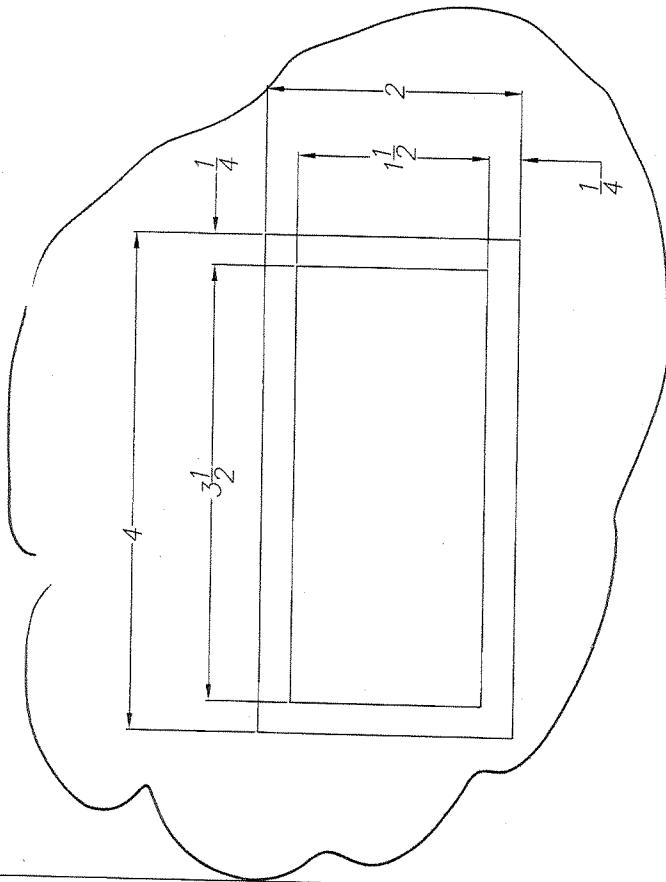


1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Title:
2" HEAVY WALL, ANCHOR LOCATIONS

Series/Model:
MULLS

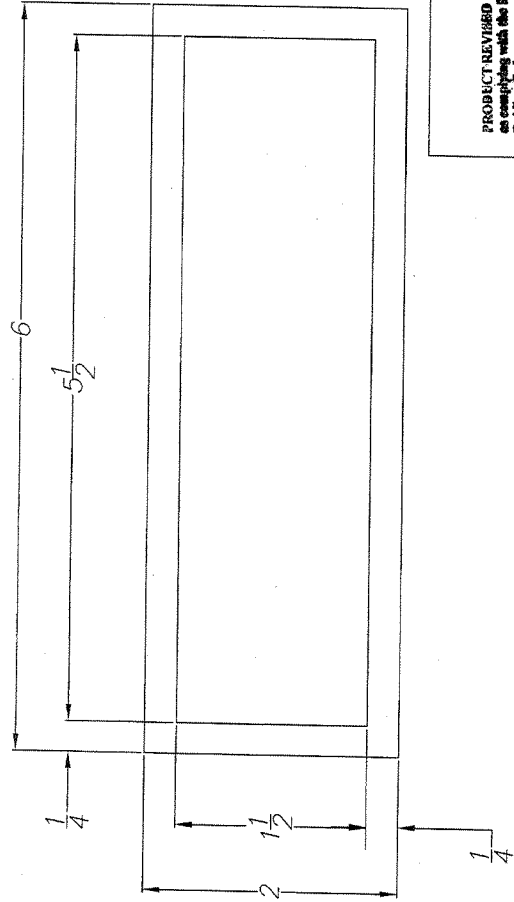
Scale: NTS
Sheet: 3 of 5
Drawing No: 6223
Rev: C



J, G, B

2x HEAVY WALL MULLS

MAT'L: 6063-T6



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 06-0125-08
Inspection Date 06/22/11
By [Signature]
Miami Trade Product Control
Division

NOTE:

1. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS



1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Revised By: F.K.	Date: 1/9/06	Revisions: B-NO CHG. THIS SHI.
Revised By: F.K.	Date: 5/3/06	Revisions: C-NO CHG. THIS SHI.
Drawn By: P.J.P.	Date: 4/28/00	

Description:

2" HEAVY WALL, MULLION PROFILES

Title:

ALUMINUM TUBE CLIPPED MULLION

Series/Model: MULLS	Scale: 1X	Sheet: 4	Drawing No. 6223	Rev: C
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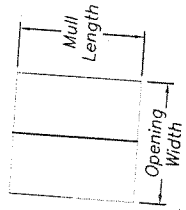
CHART 2. - 2x6x.250

ANCHOR TYPE & QTY.	OPENING WIDTH IN INCHES									
	50		60		70		80		90	
	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B
42	170	170	170	170	170	170	170	170	170	170
48	170	170	170	170	170	170	170	170	170	170
50.625	170	170	170	170	170	170	170	170	170	170
54	170	170	170	170	170	170	170	170	170	170
60	170	170	170	170	170	170	170	170	170	170
63	170	170	170	170	170	170	170	170	170	170
66	170	170	170	170	170	170	170	170	170	170
72	170	170	170	170	170	170	170	170	170	170
76	170	170	170	170	170	170	170	170	170	170
78	170	170	170	170	170	170	170	170	170	170
84	170	170	170	170	170	170	170	170	170	170
90	170	170	170	170	170	170	170	170	170	170
96	170	170	170	170	170	170	170	170	170	170
108	170	170	170	170	170	170	170	170	170	170
111	170	170	170	170	170	170	170	170	170	170
144	170	170	170	170	170	170	170	170	170	170

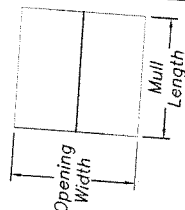
CHART 1. - 2x4x.250

ANCHOR TYPE & QTY.	OPENING WIDTH IN INCHES									
	50		60		70		80		90	
	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B	(3) A (6) B	(4) A (8) B
42	170	170	170	170	170	170	170	170	170	170
48	170	170	170	170	170	170	170	170	170	170
50.625	170	170	170	170	170	170	170	170	170	170
54	170	170	170	170	170	170	170	170	170	170
60	170	170	170	170	170	170	170	170	170	170
63	170	170	170	170	170	170	170	170	170	170
66	170	170	170	170	170	170	170	170	170	170
72	170	170	170	170	170	170	170	170	170	170
76	170	170	170	170	170	170	170	170	170	170
78	170	170	170	170	170	170	170	170	170	170
84	170	170	170	170	170	170	170	170	170	170
90	170	170	170	170	170	170	170	170	170	170
96	170	170	170	170	170	170	170	170	170	170
108	170	170	170	170	170	170	170	170	170	170
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144	170	170	170	170	170	170	170	170	170	170

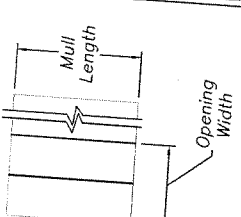
Vertical Mull



Horizontal Mull



Multiple Mulls Units



NOTES:

1. MAXIMUM ALLOWABLE PRESSURE IN PSF.
2. DESIGN IS BASED ON OPENING WIDTH. FOR MULTIPLE UNITS, CONSIDER ONLY TWO ADJACENT UNITS AT A TIME. SEE SHEET 1.
3. REFERENCE TEST REPORT FTL-2902, 2903 AND 2975
4. ANCHOR TYPES: A. 1/4" TAPCON
B. #12 SCREW

PRODUCT REVISED
in compliance with the Florida
Building Code
Amendment No. 06-0125.08
Expiration Date 12/31/11
By: [Signature]
Aluminum Products Division

TO BE USED ONLY WITH PGT INDUSTRIES PRODUCTS



1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

Revised By: L. Davis, P.E.
PC #39712
Structural

Revised By: F.K.
Date: 1/9/06

Revised By: F.K.
Date: 5/3/06
Revised By: C-NO CHG THIS SHT
Date: 4/28/00

Description:
2" HEAVY WALL, PRESSURE CHARTS 1 & 2

Title:
ALUMINUM TUBE CLIPPED MULLION

Series/Model:
MULLS

Scale:
NTS

Sheet:
5 of 5

Drawing No.
6223

Rev:
C



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

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

www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

PGT Industries
1070 Technology Drive
Nokomis, FL 34274

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 C-740 Aluminum Casement Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **7045-8**, titled "Aluminum Casement Window, Impact", sheets 1 through 13 of 13, dated 12/17/02 with revision "**D**" dated 06/23/05, prepared by PGT Industries, signed and sealed by Lucas A. Turner, 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

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, and the 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. Fair use of any 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 # **03-0611.02** 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 **Herminio F. Gonzalez, P.E., Director, BCCO**

NOA No 05-1129.11
Expiration Date: May 22, 2008
Approval Date: February 23, 2006
Page 1



NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. **DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **7045-8**, titled "Aluminum Casement Window, Impact", sheets 1 through 13 of 13, dated 12/17/02 with revision "**D**" dated 06/23/05, prepared by PGT, signed and sealed by Lucas A. Turner, P.E.

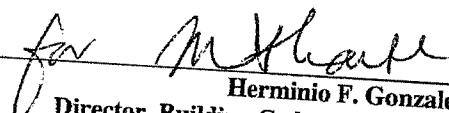
B. **TESTS**

1. Test reports on 1) Uniform Static Air Pressure Test, Loading 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 two outswing aluminum casement windows, prepared by Fenestration Testing Laboratory, Test Report No. **FTL 4608** dated 05/10/05, signed and sealed by Edmundo Largespada, P.E.

2. 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 and TAS 202-94
along with marked-up drawings and installation diagram of two outswing aluminum casement windows, prepared by Fenestration Testing Laboratory, Test Report No. **FTL 4607** dated 05/10/05, signed and sealed by Edmundo Largespada, P.E.

3. Test reports on 1) Uniform Static Air Pressure Test, Loading 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 two outswing aluminum casement windows, prepared by Fenestration Testing Laboratory, Test Report No. **FTL 3729** dated 2/28/03, signed and sealed by Joseph Chan, P.E.
"Submitted under NOA# 03-0611.02"

4. 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 and TAS 202-94
along with marked-up drawings and installation diagram of two outswing aluminum casement windows, prepared by Fenestration Testing Laboratory, Test Report No. **FTL 3587** dated 10/8/02, signed and sealed by Joseph Chan, P.E.
"Submitted under NOA# 03-0611.02"


Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office

NOA No 05-1129.11

Expiration Date: May 22, 2008

Approval Date: February 23, 2006

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. 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 and TAS 202-94
along with marked-up drawings and installation diagram of one outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Test Report No. **FTL 3582** dated 10/3/02, signed and sealed by Joseph Chan, P.E.
"Submitted under NOA# 03-0611.02"

6. 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 and TAS 202-94
along with marked-up drawings and installation diagram of three aluminum outswing casement windows, prepared by Fenestration Testing Laboratory, Test Report No. **FTL 3580** dated 10/3/02, signed and sealed by Joseph Chan, P.E.
"Submitted under NOA# 03-0611.02"

C. CALCULATIONS

1. Revised Anchor Calculations and structural analysis, prepared by manufacturer, dated 11/21/05, signed and sealed by Lucas A. Turner, P.E.
Complies with ASTM E 1300-98

D. QUALITY ASSURANCE

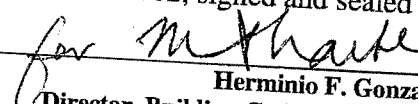
1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **01-0205.02** issued to Solutia, Inc. for "Saflex/Keepsafe Maximum" dated 5/17/01, expiring on 5/21/06.
2. Notice of Acceptance No. **05-1208.02** issued to E.I. DeNemours for "Dupont Butacite ® PVB" dated 01/05/06, expiring on 12/11/10.

F. STATEMENTS

1. Statement letter of conformance, dated 12/19/02, signed and sealed by Robert L. Clark, P.E.
2. Statement letter of no financial interest, dated 12/19/02, signed and sealed by Robert L. Clark, P.E.


Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office

NOA No 05-1129.11

Expiration Date: May 22, 2008

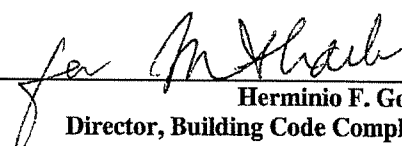
Approval Date: February 23, 2006

PGT Industries

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER

1. Notice of Acceptance No. **03-0611.02**, issued to PGT Industries, Series "640" Aluminum Casement Window, approved on 10/09/03 and expiring on 5/22/08.
2. Letter from the consultant, dated 01/25/06, stating that the product is in compliance with the Florida Building Code (FBC).



Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office

NOA No 05-1129.11

Expiration Date: May 22, 2008

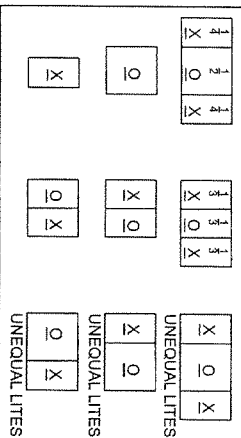
Approval Date: February 23, 2006

NOTES: LARGE MISSILE WINDOWS

1. GLAZING OPTIONS:

- 5/16" LAMINATED GLASS COMPRISED OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS W/ AN .090 INTERLAYER OF SOLUTIA OR DUPONT PVB.
- 5/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS W/ AN .090 INTERLAYER OF SOLUTIA OR DUPONT PVB.
- 7/16" LAMINATED GLASS COMPRISED OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS W/ AN .090 INTERLAYER OF SOLUTIA OR DUPONT PVB.
- 7/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS W/ AN .090 INTERLAYER OF SOLUTIA OR DUPONT PVB.
- 13/16" I.G. GLASS COMPRISED OF (1) LITE OF 1/8" HEAT STRENGTHENED GLASS AND (1) 5/16" LAMINATED COMPONENT WITH A 3/8" AIR SPACE. 5/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH AN .090 SOLUTIA OR DUPONT PVB INTERLAYER.
- 13/16" I.G. GLASS COMPRISED OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) 7/16" LAMINATED COMPONENT WITH AN AIR SPACE. 7/16" LAMINATED GLASS COMPRISED OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 SOLUTIA OR DUPONT PVB INTERLAYER.
- 13/16" I.G. GLASS COMPRISED OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) 7/16" LAMINATED COMPONENT WITH AN AIR SPACE. 7/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS WITH AN .090 SOLUTIA OR DUPONT PVB INTERLAYER.

CONFIGURATIONS OPTIONS



NOA DRAWING TABLE OF CONTENTS

NOTES	SHEET
GLAZING DETAILS.....	1
ELEVATIONS.....	2
DESIGN PRESSURE TABLES.....	3-4
SECTIONS.....	5-9
CORNER CONSTRUCTION.....	10
EXTRUSION PROFILES.....	11
PARTS LIST.....	11-12
ANCHORAGE.....	12
	1,3,4,13

2. CONFIGURATIONS: X, XX, XO, OX, XOX AND O

- DESIGN PRESSURE RATINGS / COMPARATIVE ANALYSIS TABLES:
- NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-98.
- POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-98.
- DESIGN PRESSURES UNDER 40 P.S.F. NOT APPLICABLE IN MIAMI-DADE COUNTY.
- FOR "X" CONFIGURATIONS SEE SHEET 5.
- FOR "XX" CONFIGURATIONS SEE SHEET 6.
- FOR "XOX" & "OX" CONFIGURATIONS SEE SHEET 7.
- FOR "XOX" & "XOX" OR "XOX" CONFIGURATIONS SEE SHEET 8.
- FOR UNEQUAL LITE "XOX", "XOX" & "XOX" CONFIGURATIONS SEE SHEET 9.

4. ANCHORAGE: THE 33 1/3% STRESS INCREASE HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT. SEE SHEETS 3, 4 AND 13 FOR ADDITIONAL ANCHORAGE INFORMATION.

HEAD & SILL:

- MAX. 4" FROM CORNERS
- MAX. 4" & 7" ON EACH SIDE OF MEETING RAILS
- MAX. 14 1/2" SPACING ON VENTS
- MAX. 13" SPACING ON FIXED LITES

JAMBS:

- (2) ANCHORS 3" APART AT MID-SPAN ON FIXED LITE ONLY
- MAX. 4" FROM CORNERS
- MAX. 13" SPACING
- (2) ANCHORS 3" APART AT MID-SPAN

SEE SHEET 13 FOR APPROVED ANCHORS. 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX MAY BE USED IN CONCRETE OR WOOD APPLICATIONS TO ACHIEVE THE DESIGN PRESSURES SHOWN IN SHEETS 5 THROUGH 9. SEE SHEETS 5 THROUGH 9 FOR DESIGN PRESSURE LIMITATIONS WHEN ANCHORING WITH #12 SCREWS.

5. SHUTTER REQUIREMENT: NONE REQUIRED

6. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME.

7. REFERENCE TEST REPORTS: FTL-3580, FTL-3782, FTL-3587, FTL-3729, FTL4607 AND FTL-4608.

Revised By	Date	Revisions
F.K.	3/25/03	B
F.K.	7/10/03	C
F.K.	6/23/05	D
F.K.	12/17/02	

ADD 13/16" I.G. & MOVE GLAZING DETAILS TO SHEET 2
NO CHANGE THIS SHEET
ADD 7/16" HT. GLASS TYPES F AND G. REVISE ANCHORAGE.

1070 TECHNOLOGY DRIVE
MCKINNEY, TX 75069
P.O. BOX 1529
MCKINNEY, TX 75069
PGT
Visibly Better
ALUMINUM CASEMENT WINDOW, IMPACT
CA-740
NTS
1 of 13
7045-8
Rev D

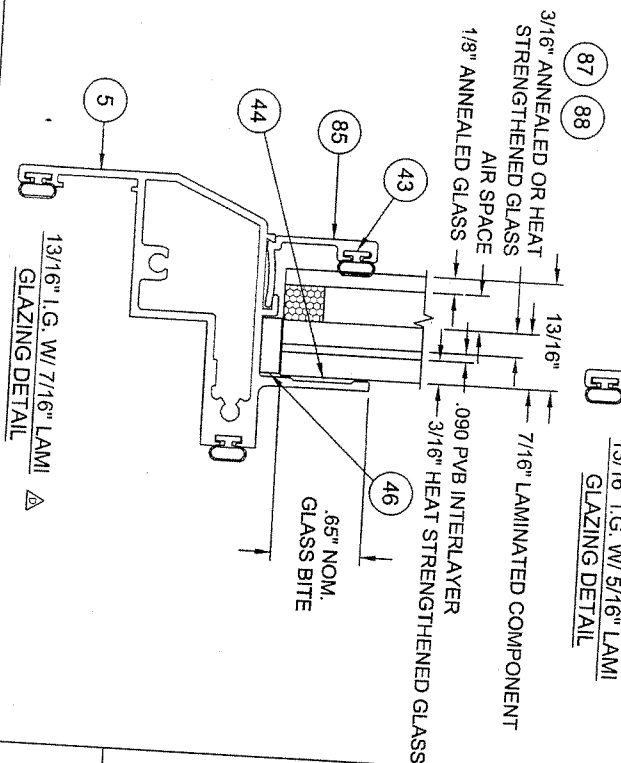
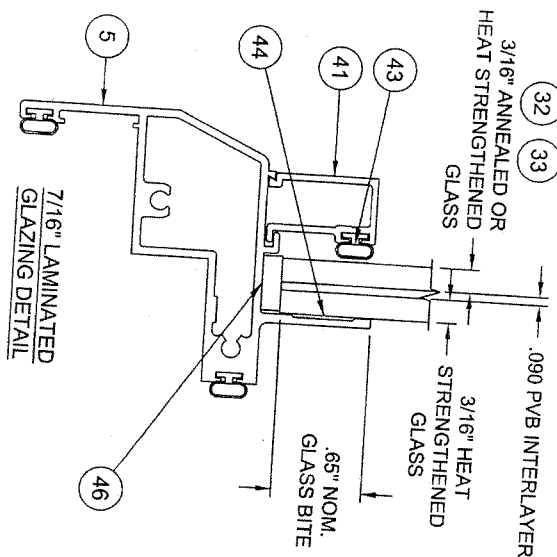
Lucas A. Turner, P.E.
PE #89201
Mechanical

PRODUCT REVISED
to comply with the Florida
Building Code
Effective 05-11-29
Revised 05-11-29
By: [Signature]
Checked: [Signature]
Drawn: [Signature]

1/12/05



NOTE: PVB INTERLAYER IS BY SOLLUTIA OR DUPONT



13/16 1.G. W/ 5/16" LAM
GLAZING DETAIL

Received By	Date	Received By	Date
F.K.	3/25/03	B	
Received By	Date	Received By	Date
F.K.	7/10/03	C	
Received By	Date	Received By	Date
F.K.	6/23/06	D	
Received By	Date	Received By	Date
F.K.	6/23/03		

REDRAW GLA'ING DET. 'LS , ADD 13/16" , 3.

NO CHANGE THIS SHEET

ADD 13/16" LAM I.G. W/ 7/16" LAM I. & CORRECT 5/16" LAM DETAIL

1000 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT
Visibly Better

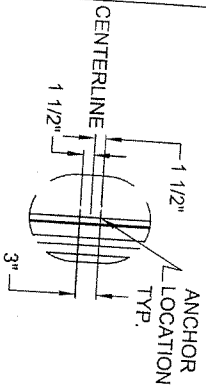
Description: GLAZING DETAILS Title:	
--	--

ALUMINUM CASEMENT WINDOW, IMPACT

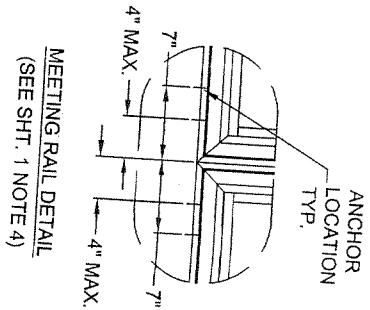
NTS	2 of 13	Ordering No. 7045-8	Rev. D
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Lucas A. Turner, P.E.
PE #56201
Mechanical

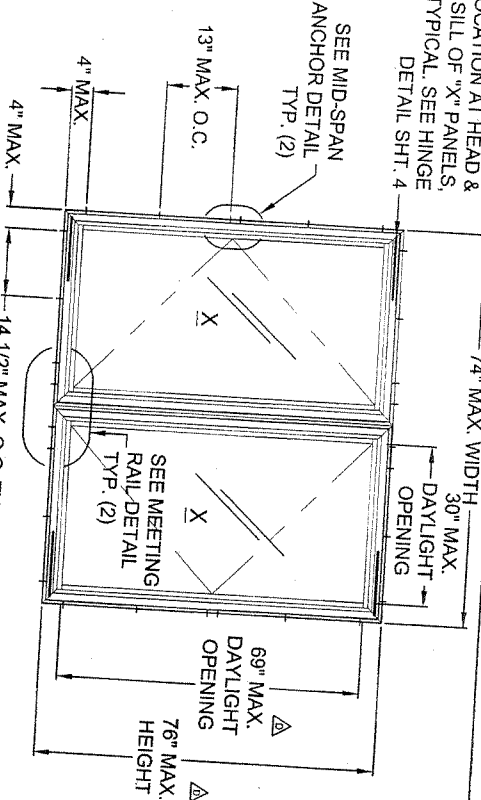
PRODUCT APPROVED
in compliance with the Florida
Building Code
Approved By: 05-1129-11
Expiration Date: 05/22/08
By: *[Signature]*
Michael Davis, Product Control
Division



MID-SPAN ANCHOR DETAIL
(SEE SHT. 1 NOTE 4)

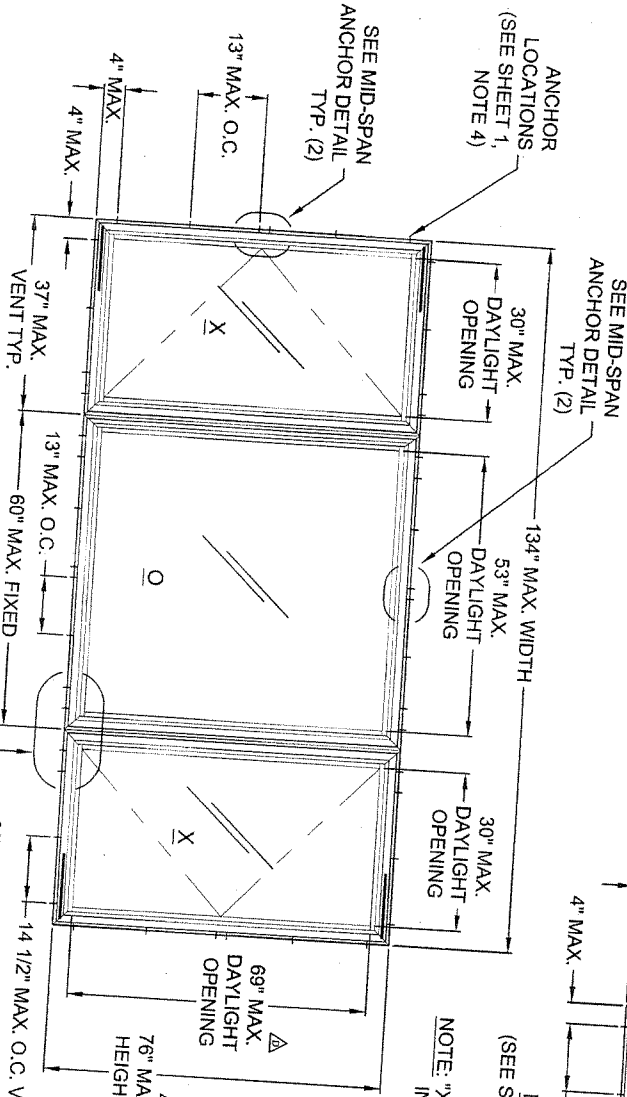


DENOTES HINGE LOCATION AT HEAD & SILL OF "X" PANELS, TYPICAL. SEE HINGE DETAIL SHT. 4



ELEVATION "B" - "XX"
(SEE SHEET 7 FOR PRESSURES)

NOTE: "X" PANEL MAY SWING IN EITHER DIRECTION



ELEVATION "A" - "XOX" (SEE SHEETS 7-9 FOR PRESSURES)

Revised By	Date	Revisions
F.K.	3/25/03	B
F.K.	7/10/03	C
F.K.	8/23/05	D
Checked By	Date	
F.K.	12/17/02	

CHANGE SHEET NO. RE-ENG-008
ADD HINGE LOCATION DETAILS
CHANGE MAX. HT. TO 76" AND MAX. DLO TO 69"

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1629
NOKOMIS, FL 34274

PGI

ALUMINUM CASEMENT WINDOW, IMPACT

CA-740 NTS 3 d 13 Drawing No. 7045-8

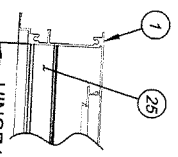
D

PRODUCT LISTED
As meeting with the Florida
Building Code
Effective 08-11-2001
Exempt from 2001 Florida
Building Code
Florida Building Code
Division

LUCAS A. TURNER, P.E.
FE #38201
MECHANICAL

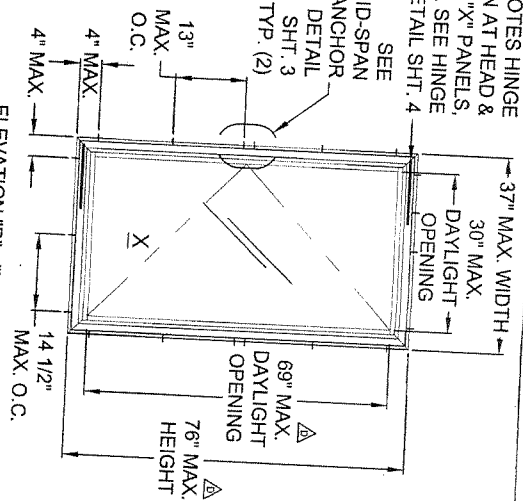
1/21/05

DENOTES HINGE LOCATION AT HEAD & SILL OF "X" PANELS. TYPICAL. SEE HINGE DETAIL SHT. 4

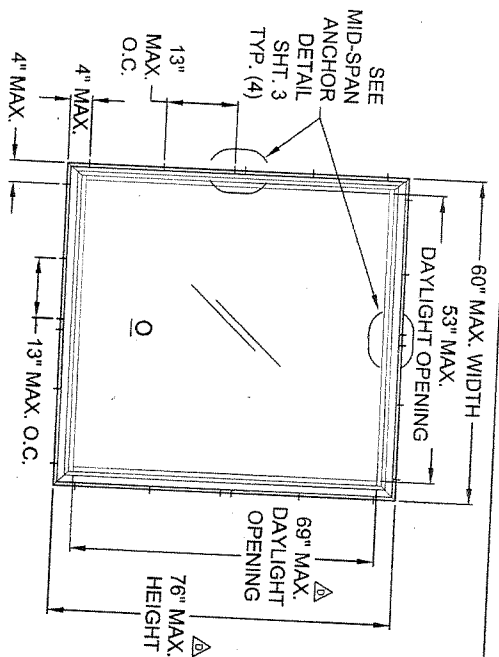


HINGE LOCATED APPROX. FLUSH AGAINST JAM, TYPICAL HEAD & SILL HINGE LOCATION DETAIL

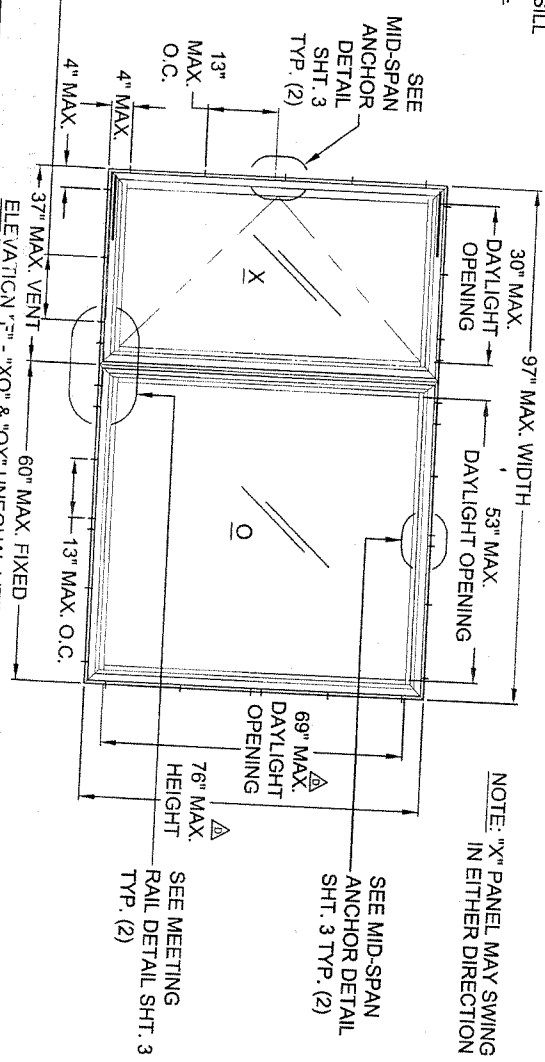
ELEVATION "D" - "X"



ELEVATION "E" - "O"



NOTE: "X" PANEL MAY SWING IN EITHER DIRECTION



Revised By	Date	Revisions
F.K.	3/25/03	B
Drawn By	Date	Revisions
F.K.	8/22/05	C
Drawn By	Date	Revisions
F.K.	7/10/03	D
Drawn By	Date	Revisions
F.K.	12/17/02	F.K.

CHANGE SHEET NO. R77E7PNCES
ADD HINGE DETAIL & HINGE LOCATION NOTES
CHANGE MAX. HT. TO 76" AND MAX. D.D. TO 69"

1070, TECHNOLOGY DRIVE
NOKOMIS, FL 34276
P.O. BOX 1529
NOKOMIS, FL 34274

1070, TECHNOLOGY DRIVE
NOKOMIS, FL 34276
P.O. BOX 1529
NOKOMIS, FL 34274

1070, TECHNOLOGY DRIVE
NOKOMIS, FL 34276
P.O. BOX 1529
NOKOMIS, FL 34274

1070, TECHNOLOGY DRIVE
NOKOMIS, FL 34276
P.O. BOX 1529
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1070, TECHNOLOGY DRIVE
NOKOMIS, FL 34276
P.O. BOX 1529
NOKOMIS, FL 34274

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NOKOMIS, FL 34274

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1070, TECHNOLOGY DRIVE
NOKOMIS, FL 34276
P.O. BOX 1529
NOKOMIS, FL 34274

1070, TECHNOLOGY DRIVE
NOKOMIS, FL 34276
P.O. BOX 1529
NOKOMIS, FL 34274

PRODUCT REVISED
as shown on the Florida
Building Code, 2001 Edition
Amended by 05-1129
F.S. 627.01
05/12/05
By: [Signature]
For: [Signature]
Mechanical

Lucas A. Turner, P.E.
FE #35201
Mechanical

11/2/05

GLAZING OPTIONS:

100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5900, 5910, 5920, 5930, 5940, 5950, 5960, 5970, 5980, 5990, 6000, 6010, 6020, 6030, 6040, 6050, 6060, 6070, 6080, 6090, 6100, 6110, 6120, 6130, 6140, 6150, 6160, 6170, 6180, 6190, 6200, 6210, 6220, 6230, 6240, 6250, 6260, 6270, 6280, 6290, 6300, 6310, 6320, 6330, 6340, 6350, 6360, 6370, 6380, 6390, 6400, 6410, 6420, 6430, 6440, 6450, 6460, 6470, 6480, 6490, 6500, 6510, 6520, 6530, 6540, 6550, 6560, 6570, 6580, 6590, 6600, 6610, 6620, 6630, 6640, 6650, 6660, 6670, 6680, 6690, 6700, 6710, 6720, 6730, 6740, 6750, 6760, 6770, 6780, 6790, 6800, 6810, 6820, 6830, 6840, 6850, 6860, 6870, 6880, 6890, 6900, 6910, 6920, 6930, 6940, 6950, 6960, 6970, 6980, 6990, 7000, 7010, 7020, 7030, 7040, 7050, 7060, 70

B. 5/16" LAMI (1/8" HS., .090, 1/8" HS) E 13/16"

TEST REPORTS: FTL-3582 ETI 2582 ETI

[illegible]

TABLE 2

GLAZING OPTION: ☒ 3" WINDOWS

TEST PEDOPHILE

ALL "X" SIZES UP TO 37" WIDE x 63" HIG.

ON 10. FILE-3580, FTL-3587

TABLE 2A

GLAZING OPTIONS: C 7/16" ANGLE IRON
"X" WINDOWS

1

ALL "X" SIZES UP TO 37" WIDE x 72" HS.

55.0

8

DE

1X

5, 4, 2

PRODUCT RECEIVED
as complying with the Florida
Building Code
Acceptance No. 05-12911
Expiration Date 05/22/08
By *Mr. Neal*
Michael D. Neal Product Control
Director

NOTES: 

1. FOR INSTALLATIONS IN WOOD C 1/4" SS4 CRETE-FLEX ANCHORS.
2. IF INSTALLING WITH #48 C...

... WITH #12 SCREWS, DESIGN PRESSURE IS LIMITED TO 69.6 P.S.F.

... COVERS, USE ELCO 1/4" TAPCONS OR

Revised By: F.K.	Date: 3/25/03	Revisions: B
Revised By: F.K.	Date: 7/10/03	Revisions: C
Revised By: F.K.	Date: 6/23/05	Revisions: D
Drawn By: F.K.	Date: 12/17/02	Checked By:

ADD GLASS TYPE TO TABLES 1 & 4

NO CHANGE THIS SHEET

Y	REVISE ANCHORS & ADD 76" HEIGHT OPTION
Date:	

1070 TECHNOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1529
NOKOMIS, FL 34274

PGT

Visibly Better

Description: PRESSURES- X CONFIG. WINDOWS

1

CA-7a

Scale:
NTS

α 13

vv, invp-a

Rev:

Lucas A. Turner, P.E.
PE #58201
Mechanical

COMPARATIVE ANALYSIS TABLE 3.

"XX"		GLAZING OPTION A 5/16" LAMI (1/8" A, .090, 1/8" HS)																								"XX" WINDOWS		TEST REPORTS: FTL-3582
		HEIGHT																										
		26		31		36		38 3/8		43		48		50 5/8		54		57		60		63						
WIDTH		NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS			
37	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0			
43	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0			
48	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0			
53 1/8	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0			
57	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0			
60	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0			
64	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0			
68	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0			
72	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0			
74	A	-75.0	70.0	-75.0	70.0	-73.7	70.0	-67.9	67.9	-59.0	59.0	-52.8	52.8	-49.9	49.9	-46.4	46.4	-43.5	43.5	-41.1	41.1	-38.6	38.6	-35.7	35.7			

TABLE 4.

GLAZING OPTIONS:	B. 5/16" LAMI (1/8"HS., .090, 1/8"HS)	E. 13/16" LAMI (1/8"HS, 3/8" SPACE, 5/16" LAMI-W/ 1/8"HS., .090, 1/8"HS)
TEST REPORTS: FTL-3582, FTL-3729		
ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE		

TABLE 5.

TEST REPORT: FTL-3580	GLAZING OPTION: C, 7/16" LAMI (3/16" A, .080, 3/16" HS)
-----------------------	---

TABLE 5A.

GLAZING OPTIONS:	C: 7/16" LAMI (3/16"A, .090, 3/16"HS)	F: 1/31/16" LAMI (1/8"A, AIR SPACE, 7/16" LAMI-W/ 3/16"A, .090, 3/16"HS)	TEST REPORTS:	FTL-3580, FTL-4607, FTL-4608
		ALL "XX" SIZES UP TO 74" WIDE x 76" HIGH	-55.0	55.0

NOTES:

1. FOR INSTALLATIONS IN WOOD OR CONCRETE TO THE FULL DESIGN PRESSURES IN THE ABOVE TABLES, USE ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX ANCHORS.
2. IF INSTALLING WITH #12 SCREWS, DESIGN PRESSURE IS LIMITED TO 69.6 P.S.F.

[illegible]
$$\frac{IX}{IX}$$

PRODUCT REVISOR
in compliance with the Florida
Building Code
Assignment No. 05-1129.17
Expiration Date 05/22/08
By Mr. Frank
Florida Building Product Council
Division

4A, 6B

207
11/21/05

[illegible]

TEST REPORTS: FTL-3582, FTL-3729, ETI-4607, ETI-4608

A₁.090.3/16"HS)

A. AIR SPACE, 7/16" LAMI-W/ 3/16"A., 0.90, 3/16"(HS)

GLAZING OPTION:	U	SHGL	TEST REPORT:
ALL "O" SIZES UP TO 60" WIDE X 63" HIGH AND ALL "1/4-1/2-1/4 XOX" SIZES UP TO 120" WIDE X 63" HIGH	0.14-1/2-1/4 XOX	0.09-0.16(HS)	FTL-3580

PRODUCT REVISED
as compared with the Florida
Building Code
Adoption No. 05-112611
Expiration Date 05/22/08
By *[Signature]*
Name John Robert Oswald
Division

Lucas
11/2/05

Lucas A. Turner, P.E.
PE #58201
Mechanical

10

COMPARATIVE ANALYSIS TABLE 8

"XO" or "OX" & "1/3-1/3-1/3 XO" WINDOWS
GLAZING OPTION: A. 5/16" LAMI (1/8" A, .090, 1/8" HS)

TEST REPORT: FTL-3582

"XO" WIDTH	"OX" WIDTH	HEIGHT											
		26	31	36	38 3/8	43	48	50 5/8	54	57	60	63	
37	55 1/2	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	NEG POS
48	72	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	NEG POS
49 1/3	74	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	NEG POS
53 1/8	79 2/3	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	NEG POS
56	84	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	NEG POS
60	90	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	NEG POS
64	96	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	NEG POS
67.333	101	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	NEG POS
70.917	106 3/8	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	NEG POS
72	108	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	NEG POS
74	111	A	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	NEG POS

TABLE 9

GLAZING OPTIONS: B. 5/16" LAMI (1/8" HS, .090, 1/8" HS) E. 13/16" LAMI (1/8" HS, 3/8" SPACE, 5/16" LAMI-W/ 1/8" HS, .090, 1/8" HS)
ALL "XO" OR "OX" SIZES UP TO 74" WIDE x 63" HIGH AND ALL "1/3-1/3-1/3 XO" SIZES UP TO 111" WIDE x 63" HIGH

TEST REPORTS: FTL-3582, FTL-3729

TABLE 10

"XO" or "OX" & "1/3-1/3-1/3 XO" WINDOWS
GLAZING OPTION: C. 7/16" LAMI (3/16" A, .090, 3/16" HS)

TEST REPORT: FTL-3580

TABLE 10A

GLAZING OPTIONS: C. 7/16" LAMI (3/16" A, .090, 3/16" HS) F. 13/16" LAMI (1/8" A, AIR SPACE, 7/16" LAMI-W/ 3/16" A, .090, 3/16" HS)
ALL "XO" OR "OX" SIZES UP TO 74" WIDE x 76" HIGH AND ALL "1/3-1/3-1/3 XO" SIZES UP TO 111" WIDE x 76" HIGH

-55.0 55.0

- NOTES: **A**
- FOR INSTALLATIONS IN WOOD OR CONCRETE TO THE FULL DESIGN PRESSURES IN THE ABOVE TABLES, USE ELCO 1/4" TAPCONS OR 1/4" SSA CRETE-FLEX ANCHORS.
 - IF INSTALLING WITH #12 SCREWS, DESIGN PRESSURE IS LIMITED TO 69.6 P.S.F.

Revised By: F.K.	Date: 3/25/03	Revised By: B	Date: 3/25/03	ADD GLASS 1/2" E TO TAB. E 9
Revised By: F.K.	Date: 7/10/03	Revised By: C	Date: 7/10/03	NO CHANGE THIS SHEET
Revised By: F.K.	Date: 6/23/05	Revised By: D	Date: 6/23/05	CHANGE ANCHORS AND ADD 7/8" HEIGHT OPTION
Drawn By: F.K.	Date: 12/17/02	Checked By:	Date:	

1070, ECHOLOGY DRIVE
NOKOMIS, FL 34275
P.O. BOX 1639
NOKOMIS, FL 34274

PGI
ALUMINUM CASEMENT WINDOW, IMPACT

Pressures: XO, OX & 1/3-1/3-1/3 XO WINDOWS

Scale: 8" = 13"

NTS

7045-8

D

1 1 1
3 3 3
X O X

X O

O X

PRODUCT REVISED
As per drawing with the Florida
Building Code 2001-12-21
Approved by: 05-11-24
E. 05-11-24
By: [Signature]
Mechanical Engineer

Lucas A. Turner, P.E.
PE 459201
Mechanical

COMPARATIVE ANALYSIS TABLE 11.

"XO" or "OX" & "XOX" UNEQUAL LITE WINDOWS

TEST REPORTS: FTL-3580, FTL-3582, FTL-3729, FTL-4607, FTL-4608

GLAZING OPTIONS:															A. 5/16" LAMI (1/8"A, 0.090, 1/8"HS)															B. 5/16" LAMI (1/8"HS, 0.090, 1/8"HS)															C. 7/16" LAMI (3/16"A, 0.090, 3/16"HS)															F. 13/16" LAMI (1/8"A, AIR SPACE 7/16" LAMI-W/ 3/16"A, 0.090, 3/16"HS)															F.L.L-3/29, F.L.L-45U, F.L.L-46																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
E. 13/16" LAMI (1/8"HS, 3/8" SPACE 5/16" LAMI-W/ 1/8"HS, 0.090, 1/8"HS)															HEIGHT															HEIGHT															HEIGHT															HEIGHT															HEIGHT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
WIDHTHS															26	36	38 3/8	43	48	50 5/8	54	57	60	63	67	72	76																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
"XOX"	VENT	FIXED	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG	POS	NEG

"XO" & "OX" WINDOW WIDTHS EQUAL THE SUM OF THE VENT WIDTH AND THE FIXED WIDTH.

TABLE 12

"XO" or "OX" & "XOX" UNEQUAL LITE WINDOWS

TEST REPORT: FTL-3580

GLAZING OPTION: D. 7/16" LAMI (3/16" HS, 0.090 3/16" HS)

ALL "XOX" SIZES UP TO 134" WIDE X 63" HIGH WITH 37" MAX. VENT WIDTH AND 60" MAX. FIXED WIDTH AND ALL "XO" or "OX" SIZES UP TO 97" WIDE X 63" HIGH WITH 37" MAX. VENT WIDTH AND 60" MAX. FIXED WIDTH

TABLE 12A

"XO" or "OX" & "XOX" UNEQUAL LITE WINDOWS

TEST REPORTS: FTL-3580, FTL-4607, FTL-4608

GLAZING OPTIONS: D. 7/16" LAMI (3/16" HS, 0.090 3/16" HS) G. 13/16" LAMI (1/8" A, AIR SPACE 7/16" LAMI-W 3/16" HS, 0.090 3/16" HS)

ALL "XOX" SIZES UP TO 134" WIDE X 76" HIGH WITH 37" MAX. VENT WIDTH AND 60" MAX. FIXED WIDTH AND ALL "XO" or "OX" SIZES UP TO 97" WIDE X 76" HIGH WITH 37" MAX. VENT WIDTH AND 60" MAX. FIXED WIDTH

NOTES: 1. FOR INSTALLATIONS IN WOOD OR CONCRETE TO THE FULL DESIGN PRESSURES IN THE ABOVE TABLES, USE ELCO 1/4" TAPCONS OR 1/4" SS4 CRETE-FLEX ANCHORS.
2. IF INSTALLING WITH #12 SCREWS, DESIGN PRESSURE IS LIMITED TO 69.6 P.S.F.

Revised By: F.K.	Date: 3/25/03	Revised By: B	Date: 3/25/03	Revised By: C	Date: 3/25/03	Revised By: D	Date: 3/25/03
Revised By: F.K.	Date: 7/10/03	Revised By: C	Date: 7/10/03	Revised By: D	Date: 7/10/03	Revised By: D	Date: 7/10/03
Revised By: F.K.	Date: 02/28/05	Revised By: D	Date: 02/28/05	Revised By: D	Date: 02/28/05	Revised By: D	Date: 02/28/05
Revised By: F.K.	Date: 12/17/02	Revised By: D	Date: 12/17/02	Revised By: D	Date: 12/17/02	Revised By: D	Date: 12/17/02

ADD GLASS TYPE E TO TABLE 11

NO CHANGE THIS SHEET

CHANGE ANCHORS AND ADD 76" HEIGHT OPTION

100% TECHNOLOGY DRIVE
NOKOMIS, FL 34275

P.O. BOX 1629
NOKOMIS, FL 34274

Visibly Better

ALUMINUM CASEMENT WINDOW, IMPACT

CA-740

Scale: NTS

Sheet: 9 of 13

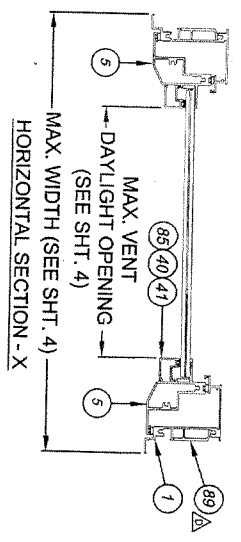
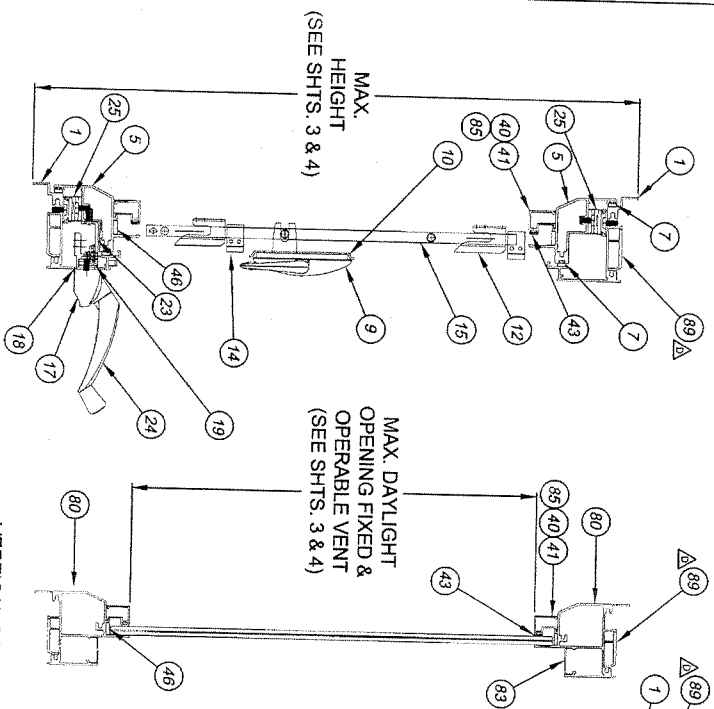
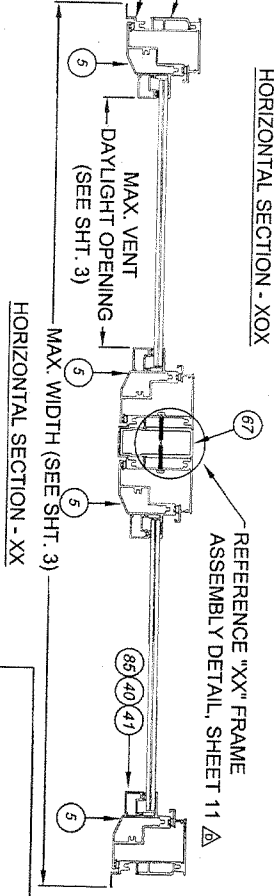
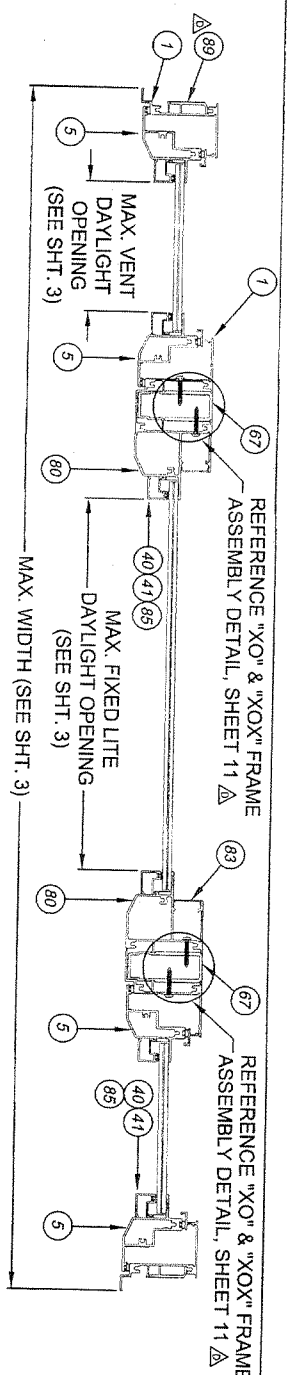
Drawing No. 7045-8

Rev: D

Lucas A. Turner, P.E.
PE #66001
Mechanical

PRODUCT REVISION
with the Florida
Building Code
Adopted by the Florida
Building Code
Effective 05/12/08
by the Florida Building Code

X	O	X
UNEQUAL LITES		
X	O	
UNEQUAL LITES		
O	X	
UNEQUAL LITES		



VERTICAL SECTION
OPERABLE UNIT

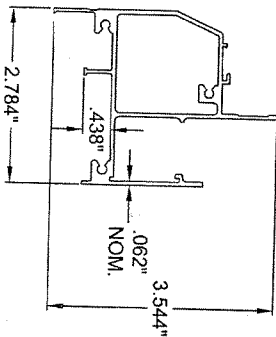
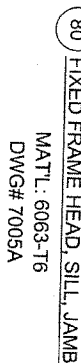
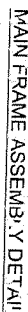
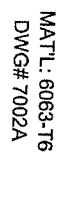
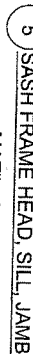
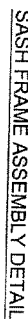
VERTICAL SECTION
FIXED UNIT

Revised By	Date	Revised By	Date	Revised By	Date
F.K.	3/25/03	B	7/10/03	C	6/23/05
F.K.	7/10/03	C	6/23/05	D	12/17/02
F.K.	6/23/05	D	12/17/02		
ADD 13416 L, J GLAZING BLAD ITEM		SHOW TOP HINGE		CHG SHT. NO. REF. AND ADD ITEM 89	
1070 TECHNOLOGY DRIVE		P.O. BOX 1529		MORRIS, FL 34274	
PGI		Visibly Better			
ALUMINUM CASEMENT WINDOW, IMPACT		CA-740		NTS	
10		10		13	
7045-8					
D					

PRODUCT REVISED
Drawing No. 05-1129-11
Supersedes Drawing 05-1129-10
Revision Date 05/12/08
By: [Signature]
Check: [Signature]
Title: Product Engineer

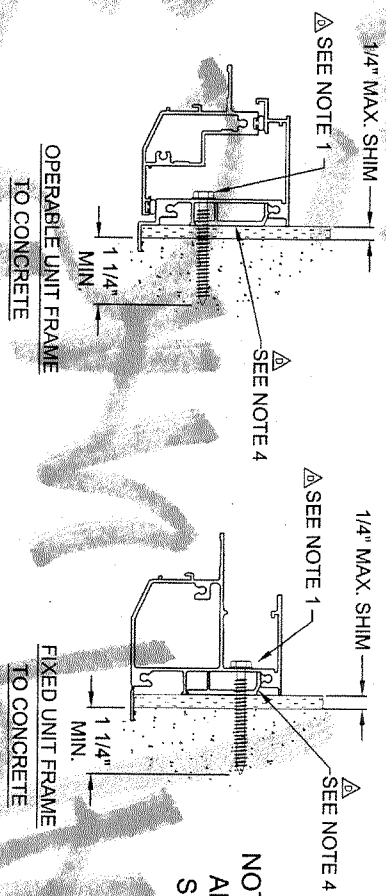
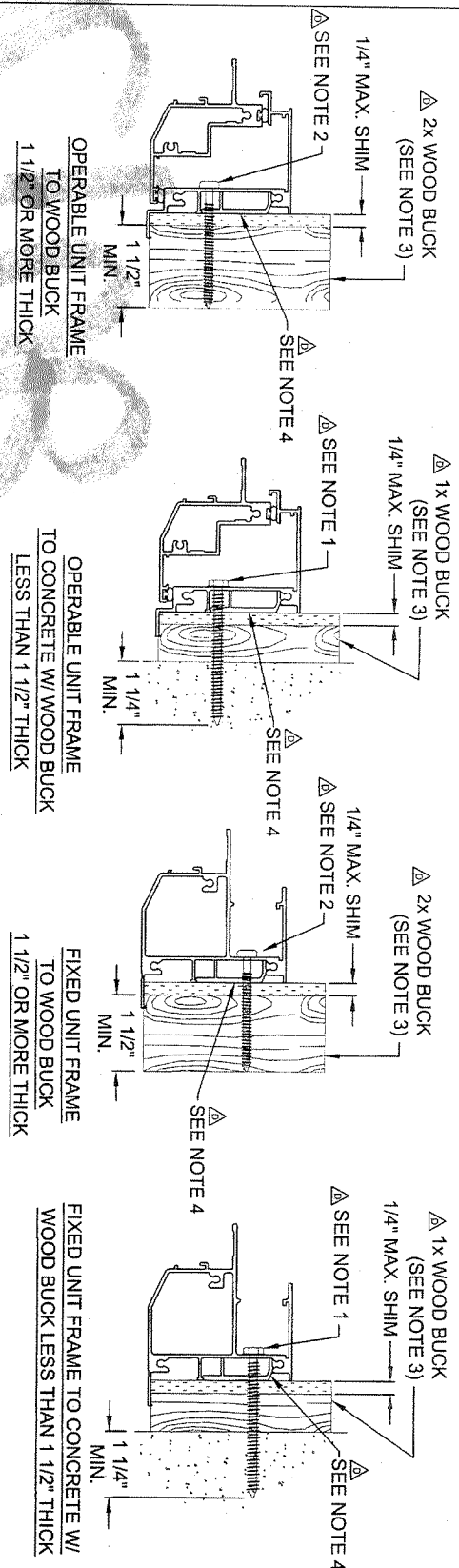
Lucas A. Turner, P.E.
PE #85071
Mechanical

Handwritten: L A T
11/2/05



11/21/05

PRODUCT REVIEWED
 as complying with the Federal
 Building Code
 Acceptance No. 05-1129.11
 Expiration Date 05/22/2008
 Death Product Category
 Section



NOTE: ALL DETAILS
APPLY TO HEAD,
SILL, AND JAMB.

- NOTES: Δ
1. FOR CONCRETE APPLICATIONS IN MIAMI-DADE COUNTY, USE ONLY MIAMI-DADE COUNTY APPROVED 1/4" ELCO TAPCONS OR 1/4" SS4 CRETE-FLEX CONCRETE ANCHORS. MINIMUM DISTANCE FROM ANCHOR TO CONCRETE EDGE IS 2 1/2". SEE SHEET 1 FOR SPACING.
 2. FOR WOOD APPLICATIONS IN MIAMI-DADE COUNTY, USE #12 SCREWS, 1/4" ELCO TAPCONS OR 1/4" ELCO SS4 CRETE-FLEX. SEE SHEET 1 FOR SPACING.
 3. WOOD BUCKS DEPICTED IN THE SECTIONS ON THIS PAGE AS 1x ARE BUCKS WHOSE TOTAL THICKNESS IS LESS THAN 1 1/2". 1x WOOD BUCKS ARE OPTIONAL IF UNIT IS INSTALLED DIRECTLY TO SOLID CONCRETE. WOOD BUCKS DEPICTED AS 2x ARE 1 1/2" THICK OR GREATER. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS TO BE ENGINEERED BY OTHERS OR AS APPROVED BY AUTHORITY HAVING JURISDICTION.
 4. ITEM 89, BACKING PLATE, NOT REQUIRED FOR INSTALLATIONS OUTSIDE OF MIAMI-DADE COUNTY.

Revised By / Date	Revised By / Date	Revised By / Date	Revised By / Date	Revised By / Date
F.K. 3/25/03	B	NO CHANGE THIS SHEET	1070 TECHNICAL SERVICE	ANCHORAGE DETAILS
F.K. 7/10/03	C	NO CHANGE THIS SHEET	KICKER, FL 34275	ALUMINUM CASEMENT WINDOW, IMPACT
F.K. 6/23/05	D	REVISE NOTES AND REMOVE 3/16" TAPCONS & #14 SCREWS	P.O. BOX 1523	CA-740
F.K. 12/17/02			MIAMI, FL 34274	NTS 13 of 13
				7045-8
				D

PRODUCT REVIEWED
By: [Signature]
Date: 05-11-25-11
Reviewed By: [Signature]
Date: 05-11-25-11

Lucas A. Turner, P.E.
PE #38201
Mechanical

1 1/2 inch

48 HOURS PRIOR TO EXCAVATING
CONTRACTOR SHALL CALL FOR LOCATION
OF UNDERGROUND UTILITIES
SUNSHINE ONE-CALL 1-800-432-4770
CITY OF MIAMI BEACH 305-673-7080

08-24-2007

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR
OBTAINING BUILDING PERMITS ONLY.

Phone 305-673-7080
Fax 305-673-7028

PUBLIC WORKS
PLAN REVIEW NOTICE

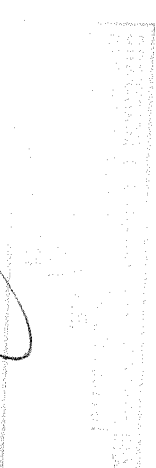
All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.

Permit Requirements: Proof of existing sidewalk/swale area conditions (pictures) and/or posting of sidewalk/roadway bonds (Public Works inspection of the right-of-way will be required prior to final sign-off on the C.C. / C.O. or the release of bonds.)

JOB NAME :

RESIDENCE

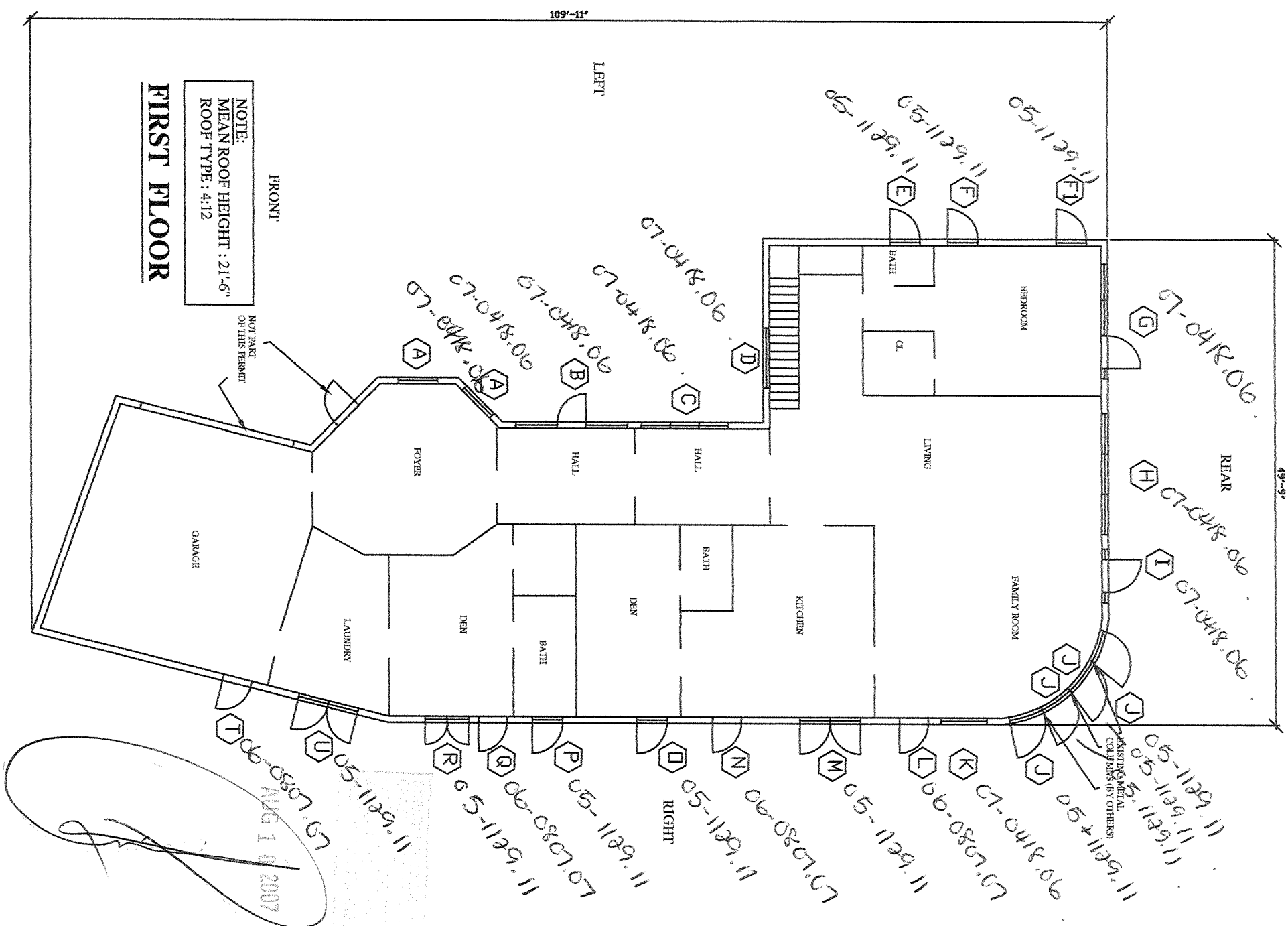
15 E SAN MARINO DR
MIAMI BEACH , FL



ARCHITECT:
PROJECT: RESIDENCE
LOCATION: 15 E SAN MARINO DR
MIAMI BEACH , FL.

DATE: 08/10/07
SCALE: 3/16" = 1'
DWG. BY: M.R.Z.
JOB #: 822

1 of 6



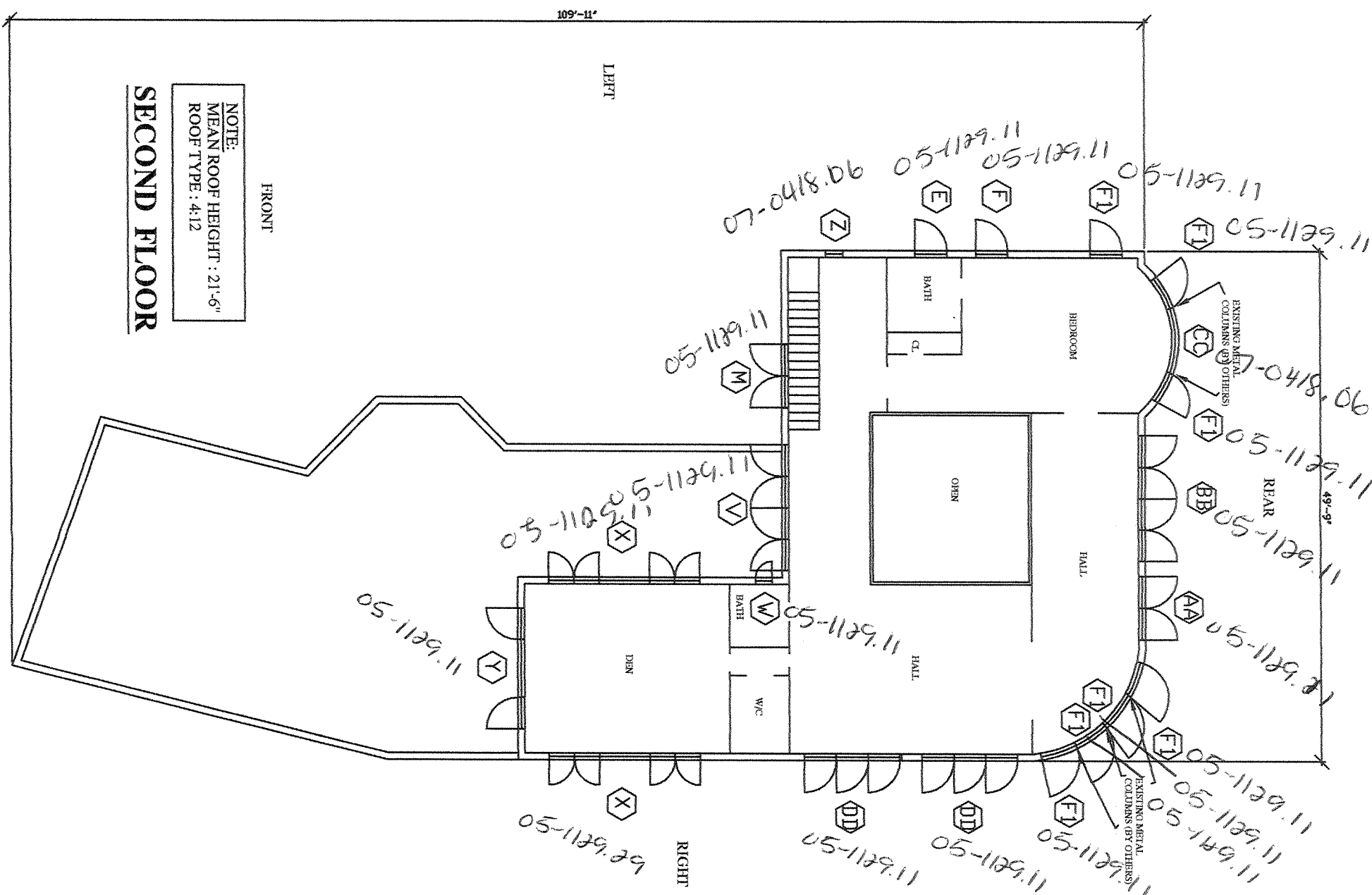
	REVISION:
--	------------------

ARCHITECT:

PROJECT: RESIDENCE

LOCATION: 15 E SAN MARINO DR
MIAMI BEACH , FL.

DATE: 08/10/07
SCALE: 3/16" = 1'
DWG. BY: M.R.Z.
JOB #: 822
2 of 6

[illegible]

REVISION:

ARCHITECT:
PROJECT: RESIDENCE
LOCATION: 15 E SAN MARINO DR
MIAMI BEACH , FL.

DATE: 08/10/07
SCALE: 3/16" = 1'
DWG. BY: M.R.Z.
JOB #: 822

"J" 37" X 50-5/8"(X)

SERIES C- 740 ALUMINUM CASEMENT WINDOW-IMPACT
N.O.A. : 05-1129.11
ZONE 5: +59.0 -79.0
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN GLASS
.090 SOLUTIA OR DUPONT PVB INNERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

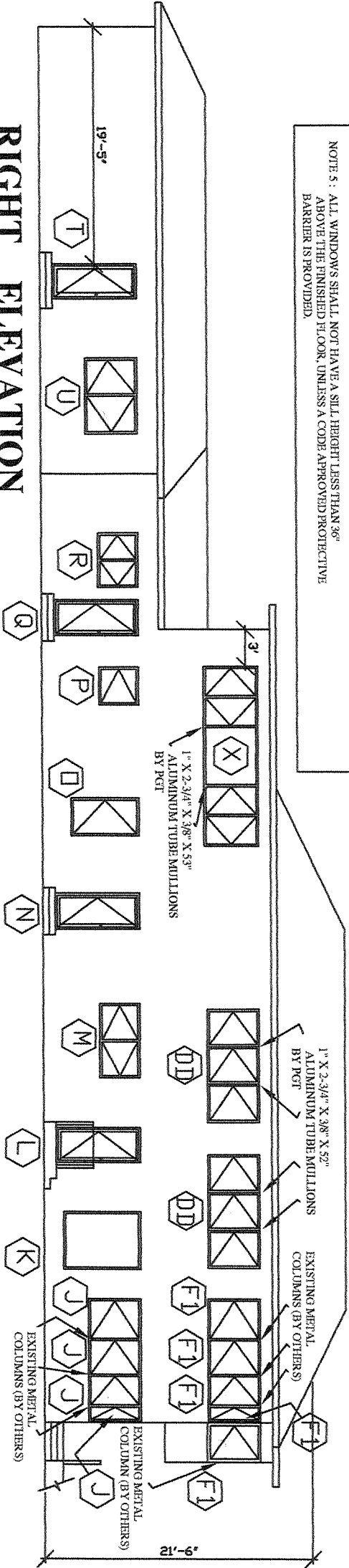
"I1" 37" X 52"(X)

SERIES C- 740 ALUMINUM CASEMENT WINDOW-IMPACT
N.O.A. : 05-1129.11
ZONE 5: +59.0 -79.0
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN GLASS
.090 SOLUTIA OR DUPONT PVB INNERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

"DD" M.O.111" X 52"

(3)37" X 52"(X)
SERIES C- 740 ALUMINUM CASEMENT WINDOW-IMPACT
N.O.A. : 05-1129.11
ZONE 4: +59.0 -64.0
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" H.S.GLASS
.090 SOLUTIA OR DUPONT PVB INNERLAYER
INTERIOR LITE: 1/8" H.S. GLASS
NOTE: WINDOW UNITS SHALL BE MULLED TOGETHER USING:
1" X 2-3/4" X 3/8" X 52" ALUMINUM TUBE MULLIONS
BY PGT. N.O.A. : 06-0125.07.

NOTE 1: WINDOW FRAMES/MULLION ANCHORAGE TO MAIN STRUCTURE SHALL BE IN STRICT ACCORDANCE WITH THE UNIT'S NOTICE OF ACCEPTANCE-REFER TO PRODUCTS CONTROLS.
NOTE 2 : ONLY THE OPENINGS THAT ARE IDENTIFIED WITH THEIR PRODUCTS CONTROL N.O.A. DESIGN PRESSURES, AND SIZE ARE PART OF THIS PERMIT. ALL OTHER OPENINGS ARE NOT PART OF THIS PERMIT.
NOTE 3 : THE MAIN WIND FORCE RESISTING SYSTEM OF THE STRUCTURE (IE: BEAMS,COLUMNS,FRAMING,ETC) SHALL BE DESIGNED TO WITHSTAND THE LOADS IMPOSED BY THE GLAZING. NO CALCULATIONS HAVE BEEN PERFORMED TO VERIFY THEIR ADEQUACY.
NOTE 4 : ALL EGRESS WINDOWS SHALL HAVE A SILL HEIGHT NOT TO EXCEED 44" ABOVE THE FINISHED FLOOR.
NOTE 5 : ALL WINDOWS SHALL NOT HAVE A SILL HEIGHT LESS THAN 36" ABOVE THE FINISHED FLOOR, UNLESS A CODE APPROVED PROTECTIVE BARRIER IS PROVIDED.



RIGHT ELEVATION

"U" 74" X 50-5/8"(XX)

SERIES C- 740 ALUMINUM CASEMENT WINDOW-IMPACT
N.O.A. : 05-1129.11
ZONE 4: +59.0 -64.0
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" H.S.GLASS
.090 SOLUTIA OR DUPONT PVB INNERLAYER
INTERIOR LITE: 1/8" H.S. GLASS

"T"

35" X 81"(NOMINAL)
FD-101 OUTSWING FRENCH DOOR IMPACT
N.O.A. 06-0807.07
ZONE 4: +56.7 -61.7
GLAZING: 3/8" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S.GLASS
.090 DUPONT BUTACITE PVB OR SOLUTIA SAFLEX
KEEPSAFE MAXIMUM INTERLAYER
INTERIOR LITE: 1/8" ANN GLASS

"P" 33-1/2" X 38-3/8"(X)

SERIES C- 740 ALUMINUM CASEMENT WINDOW-IMPACT
N.O.A. : 05-1129.11
ZONE 4: +59.0 -64.0
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" ANN GLASS
.090 SOLUTIA OR DUPONT PVB INNERLAYER
INTERIOR LITE: 1/8" H.S. GLASS

"N"

36" X 84-1/2"(NOMINAL)
FD-101 OUTSWING FRENCH DOOR IMPACT
N.O.A. 06-0807.07
ZONE 4: +56.7 -61.7
GLAZING: 3/8" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S.GLASS
.090 DUPONT BUTACITE PVB OR SOLUTIA SAFLEX
KEEPSAFE MAXIMUM INTERLAYER
INTERIOR LITE: 1/8" ANN GLASS

"R" 53" X 38-3/8"(XX)

SERIES C- 740 ALUMINUM CASEMENT WINDOW-IMPACT
N.O.A. : 05-1129.11
ZONE 4: +59.0 -64.0
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" ANN GLASS
.090 SOLUTIA OR DUPONT PVB INNERLAYER
INTERIOR LITE: 1/8" H.S. GLASS

"Q"

35" X 82"(NOMINAL)
FD-101 OUTSWING FRENCH DOOR IMPACT
N.O.A. 06-0807.07
ZONE 4: +56.7 -61.7
GLAZING: 3/8" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S.GLASS
.090 DUPONT BUTACITE PVB OR SOLUTIA SAFLEX
KEEPSAFE MAXIMUM INTERLAYER
INTERIOR LITE: 1/8" ANN GLASS

"O" 36-1/2" X 63"(X)

SERIES C- 740 ALUMINUM CASEMENT WINDOW-IMPACT
N.O.A. : 05-1129.11
ZONE 4: +59.0 -64.0
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" H.S.GLASS
.090 SOLUTIA OR DUPONT PVB INNERLAYER
INTERIOR LITE: 1/8" H.S. GLASS

"M" 74" X 38-3/8"(XX)

SERIES C- 740 ALUMINUM CASEMENT WINDOW-IMPACT
N.O.A. : 05-1129.11
ZONE 4: +59.0 -64.0
GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 1/8" ANN GLASS
.090 SOLUTIA OR DUPONT PVB INNERLAYER
INTERIOR LITE: 1/8" H.S. GLASS

"X" M.O.176" X 53"

(2)38-2/3" X 53"(XX)(LATERALS)
SERIES C- 740 ALUMINUM CASEMENT WINDOW-IMPACT
N.O.A. : 05-1129.11
ZONE 5: +59.0 -79.0
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" ANN GLASS
.090 SOLUTIA OR DUPONT PVB INNERLAYER
INTERIOR LITE: 3/16" H.S. GLASS

(1) 58-5/8" X 53"(CENTER)

"PW 701" ALUMINUM PICTURE WINDOW-LMI
N.O.A. : 07-0418.06
ZONE 5: +59.0 -79.0
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S.GLASS
.090 DUPONT BUTACITE OR
SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER
INTERIOR LITE: 3/16" H.S.GLASS

NOTE: WINDOW UNITS SHALL BE MULLED TOGETHER USING:
1" X 2-3/4" X 3/8" X 53" ALUMINUM TUBE MULLIONS
BY PGT. N.O.A. : 06-0125.07.

"L"

35" X 87"(NOMINAL)
FD-101 OUTSWING FRENCH DOOR IMPACT
N.O.A. 06-0807.07
ZONE 4: +56.7 -61.7
GLAZING: 3/8" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S.GLASS
.090 DUPONT BUTACITE PVB OR SOLUTIA SAFLEX
KEEPSAFE MAXIMUM INTERLAYER
INTERIOR LITE: 1/8" ANN GLASS

"K" 56" X 75"

"PW 701" ALUMINUM PICTURE WINDOW-LMI
N.O.A. : 07-0418.06
ZONE 4: +59.0 -64.0
GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS
EXTERIOR LITE: 3/16" H.S.GLASS
.090 DUPONT BUTACITE OR
SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER
INTERIOR LITE: 3/16" H.S.GLASS

Aug 10 2007

REVISION:

ARCHITECT:

PROJECT: RESIDENCE

LOCATION: 15 E SAN MARINO DR
MIAMI BEACH , FL.

DATE: 08/10/07
SCALE: 3/16" = 1'
DWG. BY: M.R.Z.

JOB #: 822

RECEIVED
08/10/07
AUG 10 2007

"G" M.O.140-1/2" X 86-1/2"

(1)13" X 74"(LATERAL/LEFT)

"PW 701" ALUMINUM PICTURE WINDOW-LMI

N.O.A. : .07-0418.06

ZONE 5: +59.0 -79.0

GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS

EXTERIOR LITE: 3/16" ANN GLASS

.090 DUPONT BUTACITE OR

SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER

INTERIOR LITE: 3/16" H.S.GLASS

(2)44" X 74"(LATERAL/RIGHT)

"PW 701" ALUMINUM PICTURE WINDOW-LMI

N.O.A. : .07-0418.06

ZONE 5: +59.0 -79.0

GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS

EXTERIOR LITE: 3/16" H.S.GLASS

.090 DUPONT BUTACITE OR

SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER

INTERIOR LITE: 3/16" H.S.GLASS

(1) 37-1/2" X 86-1/2"(CENTER)

FD-101 OUTSWING FRENCH DOOR IMPACT

N.O.A. .06-0807.07

ZONE 5: +56.7 -74.4

GLAZING: 3/8" LAMINATED IMPACT RESISTANT GLASS

EXTERIOR LITE: 3/16" H.S.GLASS

.090 DUPONT BUTACITE PVB OR SOLUTIA SAFLEX

KEEPSAFE MAXIMUM INTERLAYER

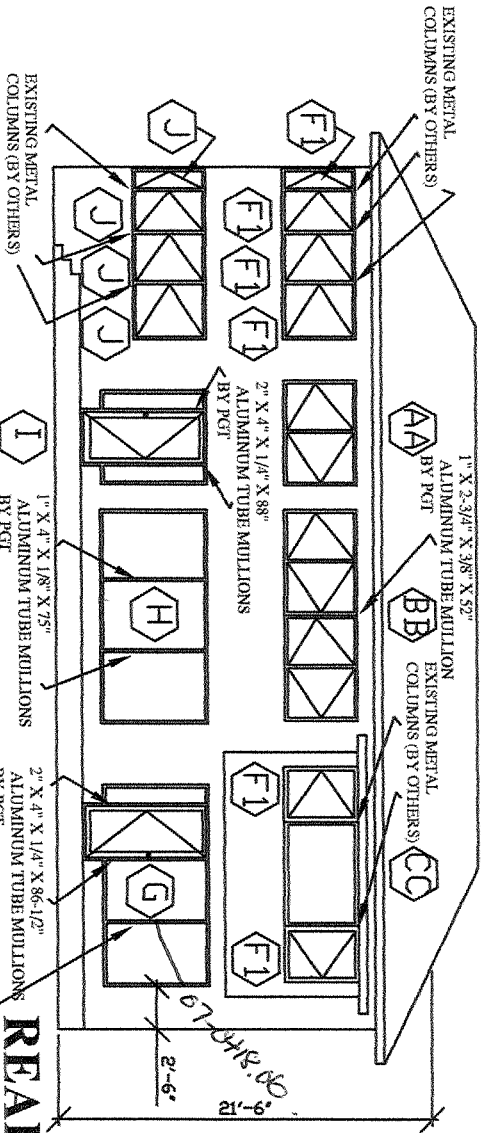
INTERIOR LITE: 1/8" ANN GLASS

NOTE : WINDOW/DOOR UNITS SHALL BE MULLIED TOGETHER USING:

2" X 4" X 1/4" ALUMINUM TUBE MULLIONS

BY PGT. N.O.A. : .06-0125.08. REFER TO ELEVATION FOR

LENGTHS & PLACEMENTS OF MULLIONS



"BB" M.O.148" X 52"

(2)74" X 52"(XX)

SERIES C- 740 ALUMINUM CASEMENT WINDOW-IMPACT

N.O.A. : .05-1129.11

ZONE 4: +59.0 -64.0

GLAZING: 5/16" LAMINATED IMPACT RESISTANT GLASS

EXTERIOR LITE: 1/8" H.S.GLASS

.090 SOLUTIA OR DUPONT PVB INTERLAYER

INTERIOR LITE: 1/8" H.S. GLASS

NOTE: WINDOW UNITS SHALL BE MULLIED TOGETHER USING:

1" X 2-3/4" X 3/8" X 52" ALUMINUM TUBE MULLION

BY PGT. N.O.A. : .06-0125.07.

REAR ELEVATION

"H" M.O. 148-1/2" X 75"

(3)49-1/2" X 75"

"PW 701" ALUMINUM PICTURE WINDOW-LMI

N.O.A. : .07-0418.06

ZONE 4: +59.0 -64.0

GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS

EXTERIOR LITE: 3/16" H.S.GLASS

.090 DUPONT BUTACITE OR

SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER

INTERIOR LITE: 3/16" H.S.GLASS

NOTE : WINDOW UNITS SHALL BE MULLIED TOGETHER USING:

1" X 4" X 1/8"X 75" ALUMINUM TUBE MULLIONS

BY PGT. N.O.A. : .06-0125.06.

"CC" 72-1/2" X 52"

"PW 701" ALUMINUM PICTURE WINDOW-LMI

N.O.A. : .07-0418.06

ZONE 5: +59.0 -79.0

GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS

EXTERIOR LITE: 3/16" H.S.GLASS

.090 DUPONT BUTACITE OR

SAFLEX/KEEPSAFE MAXIMUM PVB INTERLAYER

INTERIOR LITE: 3/16" H.S.GLASS

NOTE 1: WINDOW FRAMES/MULLION ANCHORAGE TO MAIN STRUCTURE SHALL BE IN STRICT ACCORDANCE

WITH THE UNIT'S NOTICE OF ACCEPTANCE-REFER TO PRODUCTS CONTROLS.

NOTE 2 : ONLY THE OPENINGS THAT ARE IDENTIFIED WITH THEIR PRODUCTS CONTROL N.O.A. DESIGN

PRESSURES, AND SIZE ARE PART OF THIS PERMIT. ALL OTHER OPENINGS ARE NOT PART OF THIS

PERMIT.

NOTE 3 : THE MAIN WIND FORCE RESISTING SYSTEM OF THE STRUCTURE(BEAMS,COLUMNS,FRAMING,ETC)

SHALL BE DESIGNED TO WITHSTAND THE LOADS POSTED BY THE GLAZING. NO

CALCULATIONS HAVE BEEN PERFORMED TO VERIFY THEIR ADEQUACY.

NOTE 4 : ALL EGRESS WINDOWS SHALL HAVE A SILL HEIGHT NOT TO EXCEED 44" ABOVE THE FINISHED FLOOR.

NOTE 5 : ALL WINDOWS SHALL NOT HAVE A SILL HEIGHT LESS THAN 36"

ABOVE THE FINISHED FLOOR, UNLESS A CODE APPROVED PROTECTIVE

BARRIER IS PROVIDED.

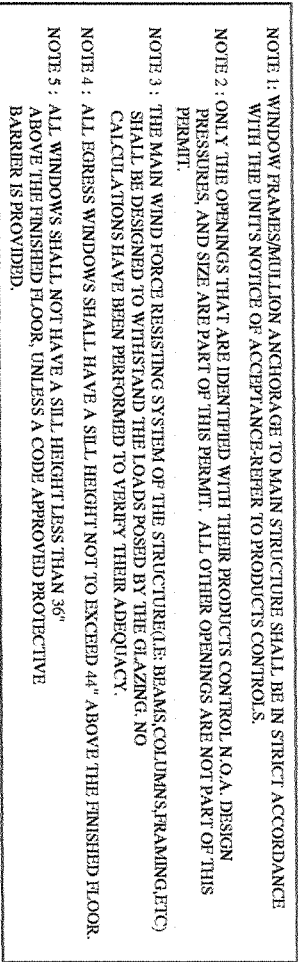
REVISION:	
-----------	--

ARCHITECT:

PROJECT: RESIDENCE

LOCATION: 15 E SAN MARINO DR
MIAMI BEACH , FL.

DATE: 08/10/07	
SCALE: 3/16" = 1'	
DWG. BY: M.R.Z.	
JOB #: 822	
6	of 6



(1) 33" X 88"(CENTER)
FD-101 OUTSWING FRENCH DOOR IMPACT
N.O.A. 06-0807.07
ZONE 4: +56.7 -61.7
GLAZING: 3/8" LAMINATED IMPACT RESISTANT GLASS

NOTE: WINDOW/DOOR UNITS SHALL BE MULLED TOGETHER USING

BY PGJ

SERIES C-740 ALUMINUM CASEMENT WINDOW-IMPACT

ZONE 3: +23.0 -19.0

OLGA: 1910-1911

NOTES

INDEX

SERIES C-740 ALUMINUM CASEMENT WINDOW-IMPACT

TITLUS - COPIES - VOLUMES

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SERIES C-740 ALUMINUM CASEMENT WINDOW-IMPACT

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EXPERIMENT 1

EXHIBIT

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"PW 701" ALUMINUM PICTURE WINDOW-L.M.I.

N.O.A. : 0/-0418.06

ZONE 3: +39.0 - 19.0

THE

SAFETY

IN LEB

(3) 35-3/8" X 77"

"PW-701" ALUMINUM PICTURE WINDOW-LML

ZONE 4: +590 -640

GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS

090 DUPONT BILACITE OR

СЪДЪРЖАНИЕ

[illegible]

1"X4"X1/8"X71" ALUMINUM TUBE MULTION

BI POL. N.O.A.: 00-0123.00.

"PW 701" ALUMINUM PICTURE WINDOW-LMI

N.O.A.: 07-0418.06

GLAZING: 7/16" LAMINATED IMPACT RESISTANT GLASS

0000 DITTONS MILLS RD

THE X S CONTAIN THE NAME OF THE PERSON/PERSONS

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

NOTE: WINDOW UNITS SHALL BE MULLED TOGETHER USING:

1" X 2-3/4" X 3/8" X 53" ALUMINUM TUBE MULTIONS

BI FGI.N.O.A.: 00-012307.

Public Works ENC - ENC - 08-24-2007

B0706429
BUR 08/24/07
STR LAC 08/24/07

48 HOURS PRIOR TO EXCAVATING
CONTRACTOR SHALL CALL FOR LOCATION
OF UNDERGROUND UTILITIES
SUNSHINE ONE-CALL 1-800-432-4770
CITY OF MIAMI BEACH 305-673-7080

THIS PLAN REVIEW CONSTITUTES APPROVAL FOR
OBTAINING BUILDING PERMITS ONLY.

PUBLIC WORKS
PLAN REVIEW NOTICE

Phone 305-673-7080 Fax 305-673-7028

All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.

Permit Requirements: Proof of existing sidewalk/swale area conditions (pictures) and/or posting of sidewalk/roadway bonds (Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C. / C.O., or the release of bonds.)

Approved/Reviewed by: 08-24-2007

CITY OF MIAMI BEACH
Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139

Inspections: (305) 673-7370

Office: (305) 673-7610

Bldg Small Work Permit

03-31-2008

Activity Number: B0802557

Status: APPROVED

Issued By: BUILGRIM

Site Address: 15 E SAN MARINO DR MBCH

Applied: 03/31/2008

Parcel #: 32320030460

Approved: 03/31/2008

Completed:

To Expire: 09/27/2008

Valuation: \$4,500.00

Applicant: GATOR POOLS OF MIAMI
12251 SW 202 AVE
MIAMI FL 33196
305-220-0199

Property Owner: 15-21 SAN MARINO LLC
3929 PONCE DE LEON BLVD
CORAL GABLES FL 331347323

CONDITION(s):

Description: **POOL RESURFACING**

Inspector Area: S Class Code: R3

DETAIL LIST

Alteration/Repair Fees

Alteration Building/Structures - Per Costs:	\$0.00	\$0.00
Awning, Canopy, Patio Cover - Per Costs:	\$0.00	\$0.00
Area Under Roof - RADON - Per Sq.Ft.:	0	\$0.00
Walk-Thru - Per Valuation:	\$0.00	\$15.00
Repairs to Building/Structure - Per Costs:	\$0.00	\$0.00
Roofing or Re-roofing - Per Sq.Ft.:	0	\$0.00
Window/Doors - Per # of:	0	\$0.00
Signs 36-4 (Writer/Erect) - Per Sq.Ft.:	0	\$0.00
Fence and/or Wall - Per Linear Feet:	0	\$0.00
Partial Demo (Struct, Sign, Wall) - Per Costs:	\$0.00	\$0.00
Swimming Pool - Per Gallon:	20000	\$115.00
Painting - Per Costs:	\$0.00	\$0.00
Sandblasting - Per Costs:	\$0.00	\$0.00
Paving - Per Sq.Ft.:	0	\$0.00
Concrete Slab - No Paving - Per Sq.Ft.:	0	\$0.00
Trees - Per # of:	0	
Hedges - Per Linear Feet:	0	
Groundcover - Per Sq.Ft.:	0	
Landscaping Fee:		\$0.00
Other Fees:		\$0.00
Penalty Fee (If Applicable):		\$0.00

Activity Number: B0802557**Fire Safety Fees**

New Building or Addition - Per Sq.Ft.:	0	\$0.00
Storage/Industrial Bldg - E & F Occup - Per Sq.Ft.:	0	\$0.00
Greenhouse/Argiculture on Premises - Per Sq.Ft.:	0	\$0.00
Screen Enclosure/Trail on Premises - Per Sq.Ft.:	0	\$0.00
SS Underground Tanks/App Shelter - Per #:	0	\$0.00
Construction not shown Above - Per Costs:	\$0.00	\$0.00
Alt/Repair Building/Structure - Per Costs:	\$0.00	\$0.00

Marine Structure Fee

Dock Area - Per Sq.Ft.:	0	\$0.00
Seawall - Per Linear Feet:	0	\$0.00
Boat Lifts, Davits, Hoist - Per # of:	0	\$0.00
Batter, Mooring, Dock Piles - Per # of:	0	\$0.00
Marine Structure Alt/Repair - Per Costs:	\$0.00	\$0.00

SFBC Compliance Surcharge

New Const/Add - Res/Mult-Fam/Comm - Per Sq.Ft.:	0	\$0.00
New Const/Add - Strg/Ind/Msc - Per Sq.Ft.:	0	\$0.00
Cost for Other Construction:		\$0.00

Training Fee

Training Fee:	\$5.00
Sanitation Fee:	\$20.00

Additional Fees

1st Reinspection:		\$0.00
Continued Reinspections - Per # of:	0	\$0.00
Building Joint Inspections - Per # of:	0	\$0.00
Change of Contractor Per # of:	0	\$0.00
Permit Extension - Per # of:	0	\$0.00

Residential Card:

Commercial Card:

Permit Card Replacements:	\$0.00
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Lost Plan Fee - SF:	\$0.00
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Lost Plan Fee - Other:	\$0.00
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Overtime Inspection Fees:	\$0.00
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Total of All Fees:	\$158.00
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Total of Payments:	\$158.00
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Balance Due:	\$0.00
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Office: 305-673-7610 Fax: 305-673-7857

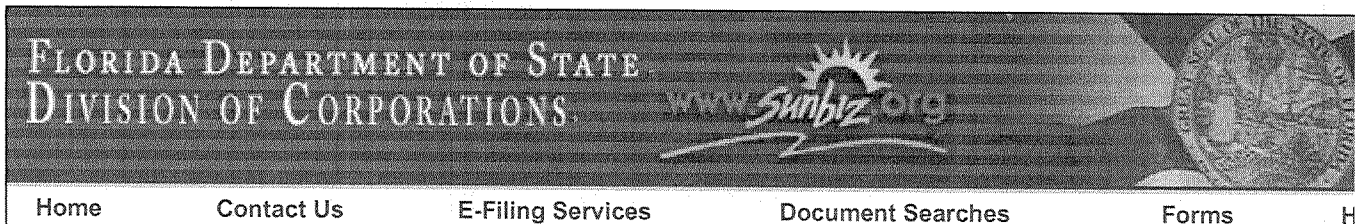
WORK PERMIT APPLICATION

FLORIDA BUILDING CODE IN EFFECT

PERMIT # 13080255

City _____ State _____ Zip _____ Phone _____

BUILDING WORK PERMIT APPLICATIONS ARE AVAILABLE ON THE MIAMI BEACH WEBSITE AT :WWW.MIAMIBEACHFL.GOV

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No Events

No Name History

Entity Name:

Detail by Entity Name

Florida Limited Liability Company

15-21 SAN MARINO, LLC

Filing Information

Document Number L05000009785

FEI Number 627323399

Date Filed 01/31/2005

State FL

Status ACTIVE

Principal Address

3929 PONCE DE LEON BLVD.
CORAL GABLES FL 33055

Mailing Address

3929 PONCE DE LEON BLVD.
CORAL GABLES FL 33055

Registered Agent Name & Address

LEGRAND, RODOLPHE
3929 PONCE DE LEON BLVD.
CORAL GABLES FL 33055

Manager/Member Detail

Name & Address

Title MGRM

LEGRAND, RODOLPHE
3929 PONCE DE LEON BLVD.
CORAL GABLES FL 33055

Annual Reports

Report Year Filed Date

2006 07/31/2006

2007 04/30/2007

Document Images

[04/30/2007 -- ANNUAL REPORT](#)[View image in PDF format](#)[07/31/2006 -- ANNUAL REPORT](#)[View image in PDF format](#)[01/31/2005 -- Florida Limited Liabilities](#)[View image in PDF format](#)

Note: This is not official record. See documents if question or conflict.

[Previous on List](#)[Next on List](#)[Return To List](#)**No Events****No Name History**

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Department of State

I certify the attached is a true and correct copy of the Articles of Organization of 15-21 SAN MARINO, LLC, a limited liability company organized under the laws of the state of Florida, filed on January 31, 2005, as shown by the records of this office.

The document number of this limited liability company is L05000009785.



CR2EO22 (2-03)

Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capitol, this the
Thirty-first day of January, 2005

Glenda E. Hood

Glenda E. Hood
Secretary of State

Articles Of Organization

Of

15-21 SAN MARINO, LLC

The undersigned, desiring to form a limited liability company under and pursuant to Florida Statutes Chapter 608, adopt the following Articles of Organization:

ARTICLE I.
NAME

The name of this limited liability company shall be 15-21 SAN MARINO, LLC.

ARTICLE II.
ADDRESS

The street address, mailing address and the principal place of business of this limited liability company shall be 3929 Ponce De Leon Boulevard, Coral Gables, Florida 33055.

ARTICLE III.
DURATION

This limited liability company shall have perpetual existence unless sooner dissolved as provided by law.

ARTICLE IV.
MANAGEMENT

The limited liability company shall be managed by its members.

ARTICLE V.
PURPOSE

FILED
05 JAN 31 PM 2:33
SECRETARY OF STATE
TALLAHASSEE, FLORIDA

This limited liability company is being formed for the purpose of engaging in any activities or business permitted for a limited liability company under the laws of the State of Florida.

ARTICLE VI.
REGISTERED OFFICE AND REGISTERED AGENT

The address of the registered office of this Limited Liability Company is, **3929 Ponce de Leon Boulevard, Coral Gables, Florida 33055**, and the name of the initial registered agent located at that address shall be Rodolphe LeGrand.

IN WITNESS WHEREOF, the undersigned has executed these Articles of Organization on January 31st, 2005

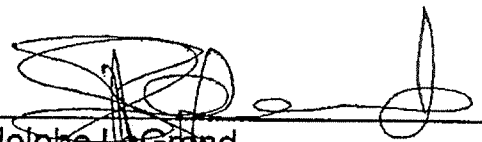


Rodolphe LeGrand, member

(In accordance with Section 608.408(3), Florida Statutes, the execution of this document constitutes an affirmation under the penalties of perjury that the facts stated herein are true.)

REGISTERED AGENT ACCEPTANCE

I hereby accept appointment to act as the initial registered agent for this Limited Liability Company, as stated in the Articles of Organization. I am familiar with the obligations of the position.



Rodolphe LeGrand

Bonding company Name _____
Address _____
City _____ State _____ Zip _____ Phone _____
Mortgage Lender's Name _____
Address _____
City _____ State _____ Zip _____ Phone _____

This application is hereby made to obtain a permit to do the work and installations as indicated. I certify that all work will be performed to meet the standards of all laws and construction regulations in this jurisdiction. I understand that **SEPARATE PERMITS** are required for **Electrical, Mechanical, Plumbing, Signs, Swimming Pools, Spas, Windows, Sliding Glass Doors and Roofing**.

OWNER'S AFFIDAVIT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and Zoning.

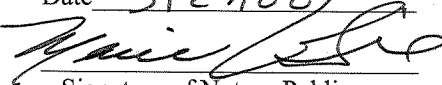
NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies.

* If the contractor is going to be hired by the tenant, check here. ☐


Signature of Owner or Agent

Rodolphe Legend
Printed Name of Owner or Agent

Date 3/24/08


Signature of Notary Public

Identification FDL

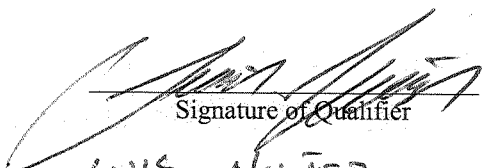
Signature of Tenant

Printed Name of Tenant

Date _____

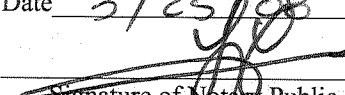
Signature of Notary Public

Identification _____


Signature of Qualifier

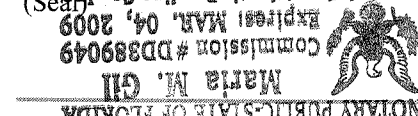
LUIS NUÑEZ
Printed Name of Qualifier

Date 3/25/08


Signature of Notary Public

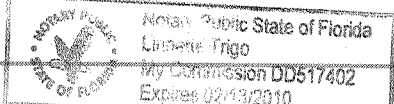
Identification 11590-520-66-

Sworn to and subscribed before me this
24 day of MARCH, 2008
(Seal)


Commission # DD389049
Expires MAR. 04, 2009
Maria M. Gil
NOTARY PUBLIC-STATE OF FLORIDA

Sworn to and subscribed before me this
____ day of _____, 20____.
(Seal)

Sworn to and subscribed before me this
25 day of March, 2008.
(Seal)


Notary Public State of Florida
Lina Trigo
My Commission DD517402
Expires 02/13/2010

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. NOTICE OF COMMENCEMENT SHOULD BE FILED AT: 22 NW 1ST STREET, MIAMI, FL

STATE OF FLORIDA

COUNTY OF DADE

Print Owner's Name _____

Sworn to and subscribed before me this _____ day of _____

Owner's Signature _____

20____, by: _____

() Personally Known () Produced Identification - Type of Identification _____

Signature of Notary Public _____

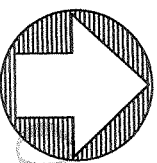
(Seal)

Application Approved By: _____

Permit Clerk _____

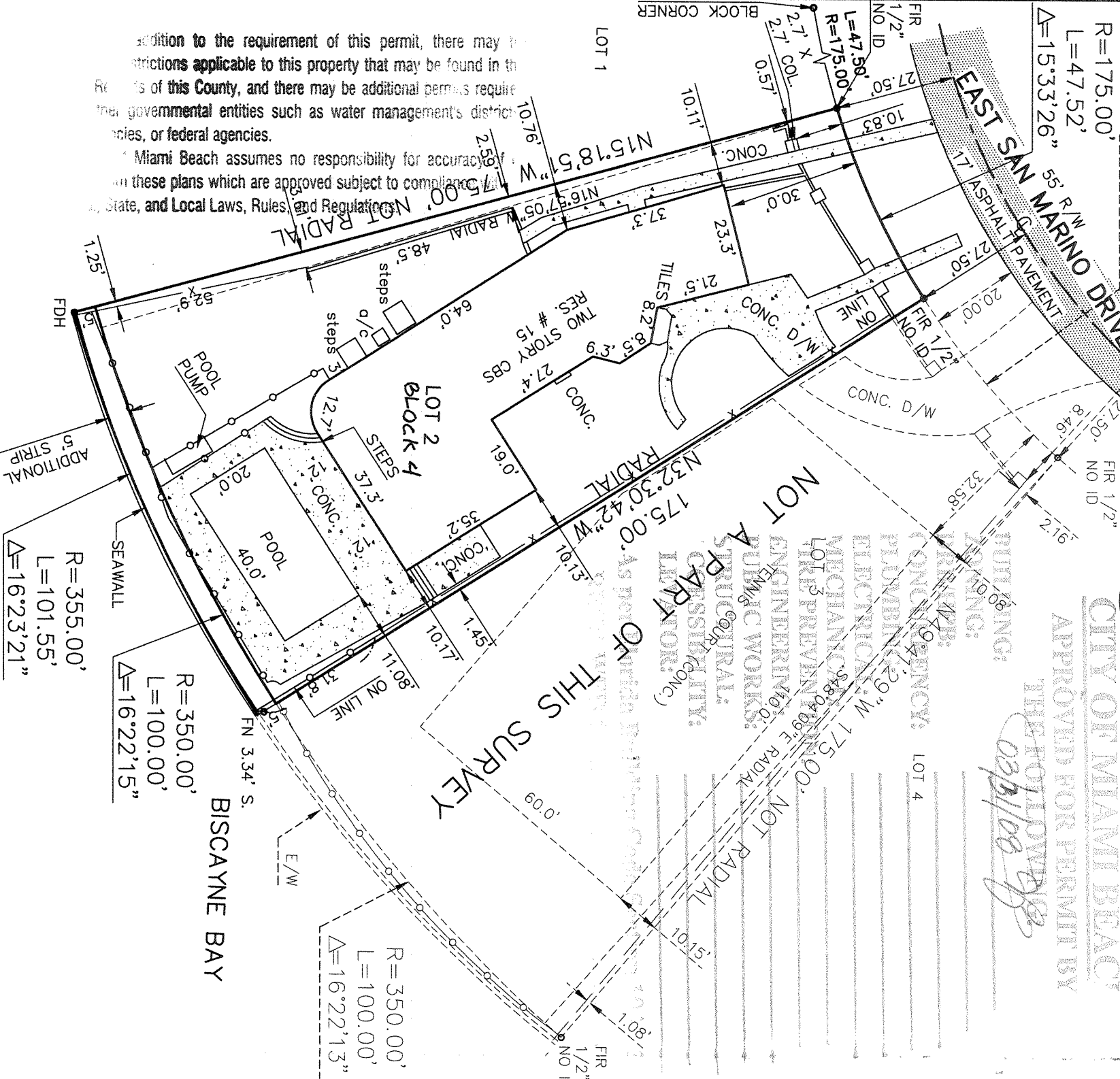
MAP OF BOUNDARY SURVEY

R=175.00'
L=47.52'
Δ=15°33'26"



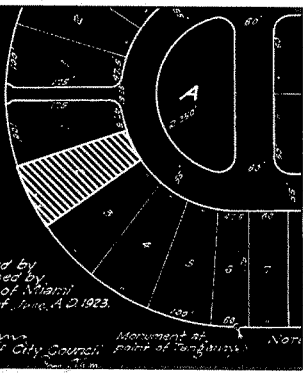
SCALE: 1" = 30'

OFFICE COPY
CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:
03/1/06



LOCATION MAP

PROPERTY ADDRESS
15 E SAN MARINO DRIVE, MIAMI BEACH, FL 33139



LEGAL DESCRIPTION:

LOT 2, BLOCK 4, OF SAN MARINO, A SUBDIVISION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 9, PAGE 22, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA; AND A FIVE FOOT STRIP OF LAND CONTIGUOUS TO THE SOUTHERLY BOUNDARY OF LOT 2, BLOCK 4, OF SAN MARINO, AN ISLAND IN BISCAYNE BAY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 9, PAGE 22, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA, LYING BETWEEN THE SOUTHERLY EXTENSIONS OF THE EASTERLY BOUNDARY LINE AND THE WESTERLY BOUNDARY LINE OF SAID LOT 2, BLOCK 4, OF SAN MARINO, TOGETHER WITH ANY RIPARIAN RIGHTS AND WATER PRIVILEGES THAT MAY APPERTAIN THERETO; TOGETHER WITH ALL IMPROVEMENTS LOCATED THEREON.

FLOOD ZONE INFORMATION:

BASED ON THE FLOOD INSURANCE RATE MAP OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY REVISED ON 3/2/94 AND INDEX MAP REVISED ON 7/17/95 THE HEREIN DESCRIBED PROPERTY IS WITHIN ZONE AE BASE FLOOD ELEVATION 10 COMMUNITY NAME & NUMBER UNINCORPORATED 120635 MAP & PANEL NUMBER 12025C0226 SUFFIX J

LEGEND & SYMBOLS

- A = ARC DISTANCE
- A/C = AIR CONDITIONER PAD
- BUDG = BUILDING
- BM = BENCHMARK
- CBS = CONCRETE BLOCK & STUCCO
- (C) = CALCULATED
- CB = CATCH BASIN
- CG = CURB & GUTTER
- CL = CHAIN LINK FENCE
- CONC = CONCRETE
- DME = DRAINAGE & MAINTENANCE
- (EC) = ENCROACHMENT
- D/W = DRIVE-WAY
- EP = EDGE OF PAVEMENT
- FDH = FOUND DRILL HOLE
- FH = FIRE HYDRANT
- PCP = PERMANENT CONTROL POINT
- PIP = FOUND IRON PIPE
- PIR = FOUND IRON ROD
- FND = FOUND NAIL (NO ID)
- O/U = OVERHEAD UTILITY WIRE
- LP = LIGHT POLE
- (M) = MEASURED
- MH = MAN HOLE
- (P) = PLAT
- PC = POINT OF CURVATURE
- PI = POINT OF INTERSECTION
- PL = PLANTER
- POB = POINT OF BEGINNING
- POC = POINT OF COMMENCEMENT
- PRM = PERMANENT REFERENCE MONUMENT
- SP = SPUR IRON PIPE
- (R) = RADIUS DISTANCE
- R/W = RIGHT OF WAY
- RES. = RESIDENCE
- SND = SET NAIL & DISK
- SMK = SIDEWALK
- (TYP) = TYPICAL
- UB = UTILITY BOX
- UE = UTILITY EASEMENT
- U/P = UTILITY POLE
- WM = WATER METER
- Δ = CENTRAL ANGLE
- M = MONUMENT LINE
- CL = CENTER LINE
- (OO) = ORIGINAL LOT DISTANCE
- X— = GRAIN LINK FENCE
- O— = IRON FENCE

SURVEYOR'S NOTES:

1. ELEVATIONS WHEN SHOWN REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD). 2. NO ATTEMPT WAS MADE TO LOCATE FOOTINGS/FOUNDATIONS UNLESS OTHERWISE NOTED. 3. THE LANDS SHOWN HEREON HAVE NOT BEEN ABSTRACTED IN REGARDS TO MATTERS OF INTEREST BY OTHER PARTIES, SUCH AS EASEMENTS, RIGHTS OF WAYS, RESERVATIONS, ETC. ONLY PLATTED EASEMENTS ARE SHOWN. 4. THIS SURVEY WAS PREPARED FOR AND CERTIFIED TO THE PARTY(IES) INDICATED HEREON AND IS NOT TRANSFERABLE OR ASSIGNABLE. 7. ALL BOUNDARY LIMIT INDICATORS SET ARE STAMPED LB# 7104. 8. THE BOUNDARY LIMITS ESTABLISHED ON THIS SURVEY ARE BASED ON THE LEGAL DESCRIPTION PROVIDED BY CLIENT OR ITS REPRESENTATIVE. 9. BEARINGS WHEN SHOWN ARE TO AN ASSUMED MERIDIAN AND THE EAST LINE OF LOT 2 HAS BEEN ASSIGNED A BEARING OF S31°01'05"E.

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS RECENTLY SURVEYED AND DRAWN UNDER MY DIRECTION AND MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA STATE BOARD OF SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATUTE.

SEAL

AUTHENTIC COPIES OF THIS SURVEY SHALL BEAR THE RAISED SEAL OF THE ATTESTING REGISTERED SURVEYOR AND MAPPER

JUAN A. SUAREZ
PROFESSIONAL SURVEYOR AND MAPPER
STATE OF FLORIDA LIC. # 6220

DATE: 11/24/04
JOB #04114821
CAD: J/BC
FILE # C-3628
F.B D P.G. D
SHEET 1 OF 1

CERTIFIED TO:
15 EAST SAN MARINO, LLC.



suarez surveying & mapping, inc.
10691 N. Kendall Dr., Suite 300, Miami, Florida 33176
Tel: 305.596.1799 Fax: 305.596.1886
url: www.suryland.com

LEGEND:

- CATCH BASIN
- WM — WATER METER
- WPP — WOOD POWER POLE
- CL — CENTER LINE

SKETCH OF SURVEY

PREPARED BY:
GUNTER GROUP, INC.

LAND SURVEYING - LAND PLANNING
FLORIDA CERTIFICATE OF AUTHORIZATION NO. LB 4507
9350 S.W. 22nd TERRACE
MIAMI, FLORIDA 33165
(305) 220-0073

ABBREVIATIONS:

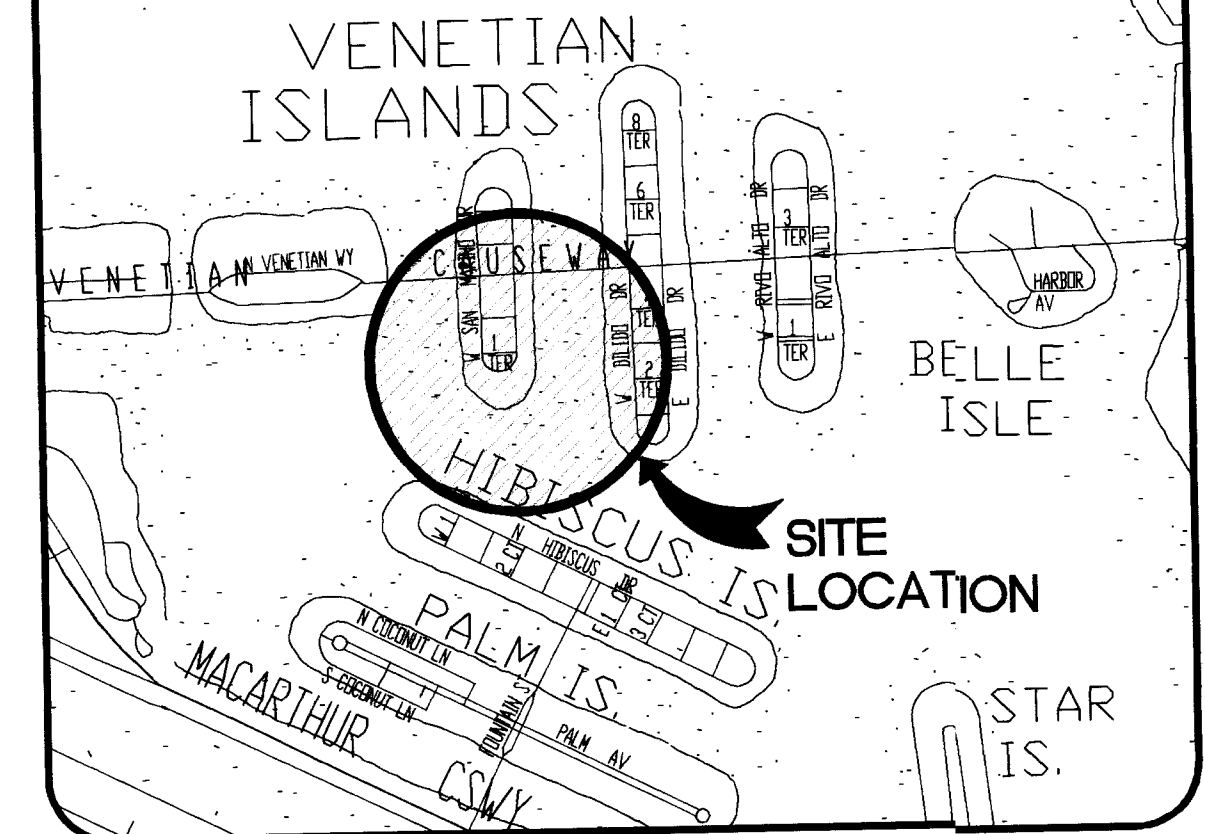
CONC.	CONCRETE
(Meas)	MEASURED
(R)	RECORD
C.L.F.	CHAIN LINK FENCE
A/C	AIR CONDITIONER
C.B.S.	CONCRETE BLOCK & STUCCO
L=	ARC LENGTH
Tan=	TANGENT
I.D.	IDENTIFICATION
Delta=	INTERIOR ANGLE OF CURVE
R=	RADIUS

SCALE 1" = 20'

LOCATION MAP

NOT TO SCALE

SUNSET ISLANDS



PROPERTY ADDRESS:

15 East San Marino Drive Miami Beach, Florida 33139.

LEGAL DESCRIPTION:

Lot 2 in Block 4 of "PLAT OF SAN MARINO" according to the plat thereof as recorded in Plat Book 9 at Page 32 of the public records of Miami-Dade County, Florida.

FOR:

15-21 SAN MARINO LLC.

SURVEYOR'S NOTES:

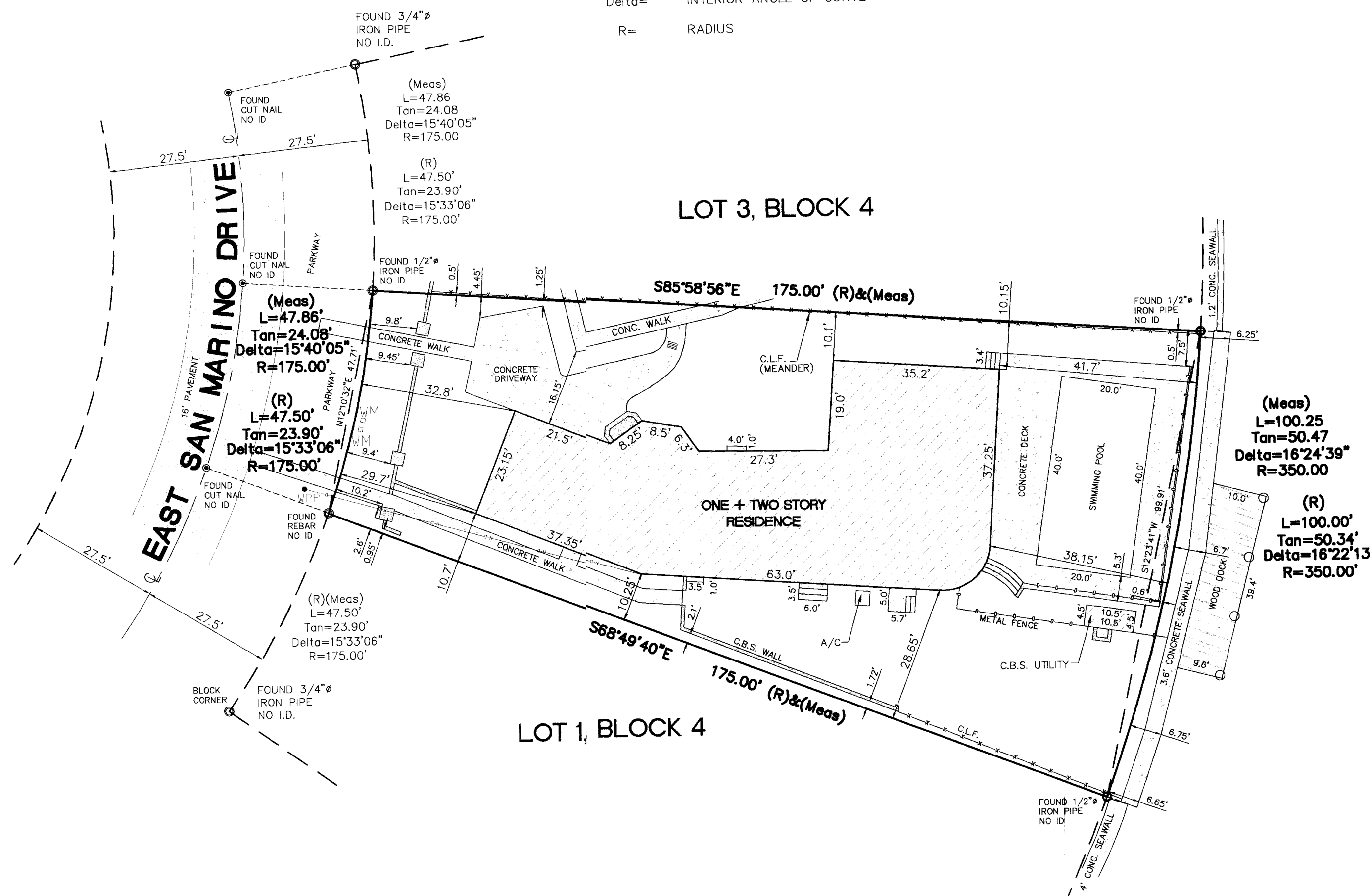
- 1) This survey was conducted for the purpose of a "Boundary Survey" only and is not intended to delineate the regulatory jurisdiction of any federal, state, regional or local agency, board, commission or other entity.
- 2) The accuracy obtained by measurements and calculations on this survey, meets and exceeds the Minimum Technical Standards requirements for a Suburban area (1 foot in 7,500 feet) as specified in Chapter 61G17-6, Florida Administrative Code.
- 3) Bearings shown hereon are based on an assumed meridian of S68°49'40"E along the Southerly boundary line of the subject property.
- 4) Legal description was provided by the client and is subject to any dedications, limitations, restrictions reservations or easements of record.
- 5) Examination of the Abstract of Title will have to be made to determine recorded instruments, if any affecting the property; search of Public Records not performed by this office.
- 6) No effort was made by this office to locate any underground utilities and/or structures within or abutting the subject property.
- 7) This survey has been prepared for the exclusive use of the entities named hereon only and the certifications hereon do not extend to any unnamed parties.
- 8) According to the National Flood Insurance Program the subject property falls in Community No. 120651, Panel No. 0183, Suffix "J", Date of FIRM 07-17-1995, Flood Zone "AE", Base Flood Elevation: 9.00 feet.
- 9) Contact the appropriate authorities prior to any design work on the hereon-described parcel for Building and Zoning information.
- 10) Professional Land Surveyor and Mapper in responsible charge: Rolando Ortiz LS 4312, State of Florida.
- 11) This survey is not valid without the signature and the raised seal of a Florida Licensed Land Surveyor and Mapper.

I hereby certify to 15-21 SAN MARINO LLC. that the Sketch of Boundary Survey of the described property is true and correct to the best of my knowledge and belief, as recently surveyed and platted under my direction; also that meets the Minimum Technical Standards set in Chapter 61G17-6, Florida Administrative Code, pursuant to Section 472.027 Florida Statutes.

[Signature]

Date: 07-07-2008
Job No.: 00-13413-A
Sketch No. 12274-A

By: Rolando Ortiz LS 4312
Professional Land Surveyor
& Mapper, State of Florida.



48 HOURS PRIOR TO EXCAVATING
CONTRACTOR SHALL CALL FOR LOCATION
OF UNDERGROUND UTILITIES
SUNSHINE ONE-CALL 1-800-433-8770
CITY OF MIAMI BEACH 305-576-7880

[illegible]

15 EAST SAN MARINO DRIVE
MIAMI BEACH, FLORIDA 33139

PROJECT No. 08-21

REVISIONS

SITE PLAN

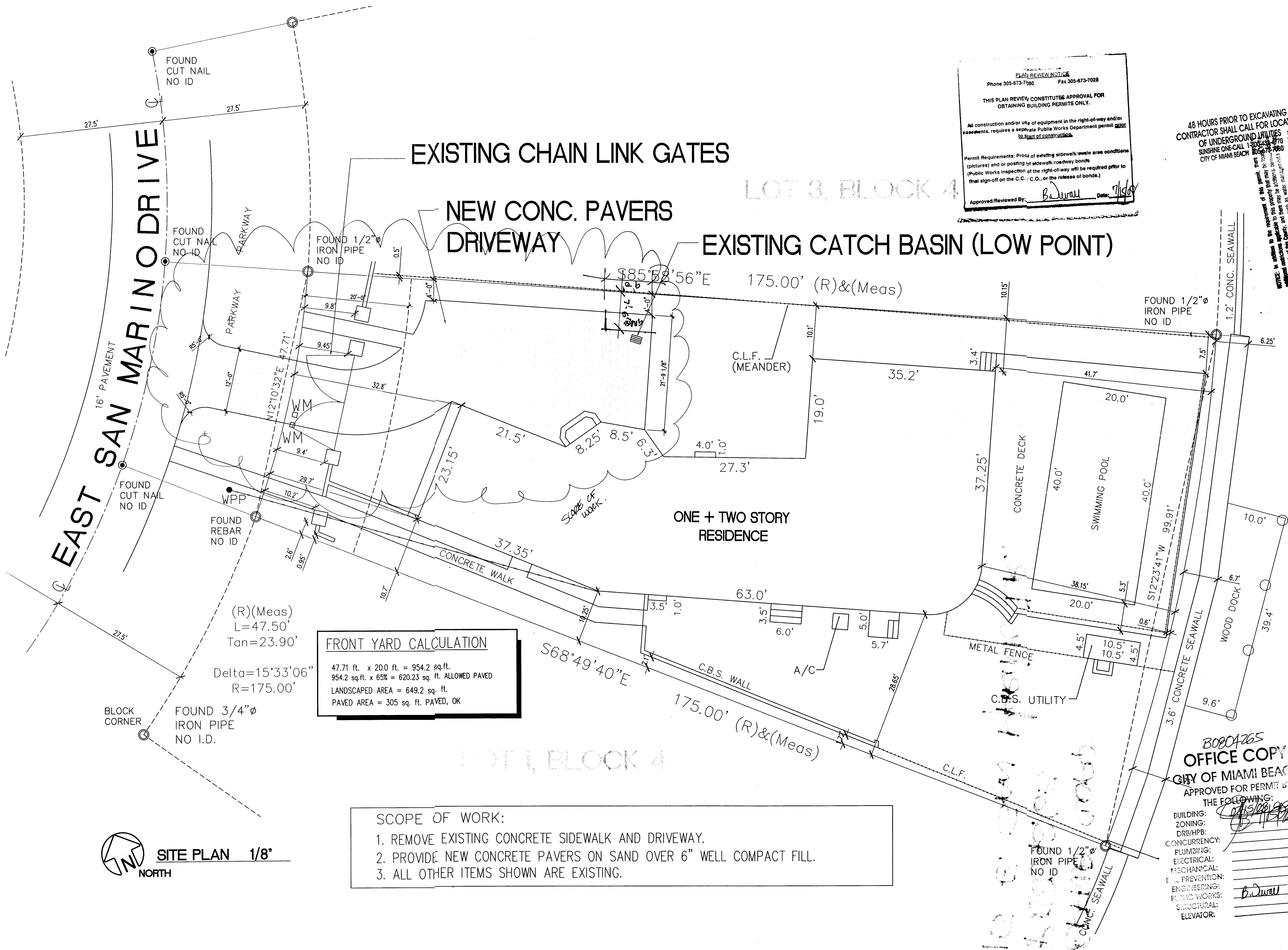
NOTICE: In addition to the requirement of the posted additional restrictions applicable to the property listed on the Public Records of this County, and there may be additional restrictions from other governmental entities such as water management agencies, or local agencies.

The City of Miami Beach assumes no responsibility for the results from these procedures that are approved subject to Federal, State and Local Laws, Rules and Regulations.

SCALE: _____

DATE: JUNE 30, 2008

A1.0



BO804265

OFFICE COPY
BO804265
15 E. SAN MARINO DR.



**CITY OF MIAMI BEACH
BUILDING DEPARTMENT
1700 CONVENTION CENTER DRIVE
2ND FLOOR - CITY HALL
MIAMI BEACH, FL 33139**

**NOTICE TO THE CITY OF MIAMI BEACH BUILDING
DEPARTMENT OF EMPLOYMENT AS SPECIAL INSPECTOR
UNDER THE FLORIDA BUILDING CODE**

I, (we) have been retained by: Mr. Legrand to perform special inspector services under the Florida Building Code at the 15 E. San Marino Dr project on the below listed structures as of 5/30/2013 (date). I am a professional engineer licensed in the State of Florida.

Process Number: B 1304584

Master Permit (IF APPLICABLE): _____

- ☐ Special Inspector for Pilings, FBC 1822.1.20
- ☐ Special Inspector for Soil Compaction, FBC 1820.3.1
- ☐ Special Inspector for Precast Attachments, FBC 1927.12.2 (By P.E. or R.A..)
- ☐ Special Inspector for Reinforced Masonry, FBC 2122.4
- ☐ Special inspection for Steel Bolted & Welded Connections, FBC 2218.2 (By P.E. or R.A..)
- ☐ Special Inspector for Trusses over 35 feet long or 6 feet high, FBC 2319.17.2.4.2 (By P.E. or R. A..)
- ☒ Special Inspector for structural repair of concrete grade beam, rib joist and soffit

NOTE: Only the marked boxes apply.

The following individual's) employed by this firm or me are authorized representatives to perform inspections*

1. J.N. Sheingold, P.E.
2. _____
3. _____
4. _____

***NOTE: FBC 2001 HVZ sections 1927.12.2, 2218.2, 2319.17.4.2 requires either a Registered professional Engineer or Registered Architect to perform the actual inspections.**

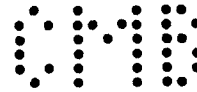
I, (we) will notify the City of Miami Beach Building Department of any changes regarding authorized personnel performing inspection services.

I, (we) understand that a Special Inspection Log for each building must be displayed in a convenient location on the site for reference by the City of Miami Beach Building Department Inspector. All mandatory inspections, as required of the Florida Building Code, Inspection performed by the Special Inspector hired by the Owner are in addition to the mandatory inspections performed by the Building Department. Further, upon completion of the work under each building permit, I will submit to the Building Inspector at the time of final inspection the completed Inspection Log form and sealed statement that, to the best of my knowledge, belief and professional judgment those portions outlined above meet the intent of the Florida Building Code and are in subsequent accordance with the approved plans.

Architect/Engineer Signature: [Signature]
Architect/Engineer Name Printed: J.N. Sheingold, P.E.
Address: 12420 S.W. 75th Avenue
Phone Number: 305.378.1244
Owner/Agent Signature: [Signature]
Owner/Agent Name Printed: RODOLPHE LEGRAND
Building Department Accepted By: AV 6/6/13

Signed and Sealed
P.E. 21181
License Number

Date: 5/30/13



AMERICAN SOCIETY
OF CIVIL ENGINEERS
NATIONAL ACADEMY
OF BUILDING INSPECTION
ENGINEERS

J. N. Sheingold, P.E.
CONSULTING ENGINEER
PROFESSIONAL BUILDING INSPECTION
12420 S.W. 75th AVE., / MIAMI, FLORIDA 33156
TELEPHONE: (305) 378-1244
Established 1976

NATIONAL SOCIETY OF
PROFESSIONAL ENGINEERS
FLORIDA ENGINEERING
SOCIETY

30 May, 2013

City of Miami Beach
Building Department
1700 Convention Center Drive
Miami Beach, Florida 33139

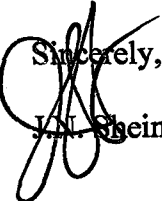
**Ref: 15 East San Marino Drive
Miami Beach, Florida**

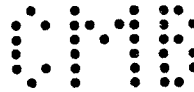
Att: Building Official

I, J.N. Sheingold, P.E. have prepared the concrete restoration plans and specifications to correct the structural deficiencies at the above referenced SFR. Please be advised that the work as described will not reduce the structural strength or the stability of the building structure, or any individual member, thereof as per FBC 2010 edition.

If you have any questions or require additional information, please do not hesitate to call this office.

Sincerely,


J.N. Sheingold, P.E. 21181



AMERICAN SOCIETY
OF CIVIL ENGINEERS

NATIONAL ACADEMY
OF BUILDING INSPECTION
ENGINEERS

J. N. Sheingold, P.E.
CONSULTING ENGINEER
PROFESSIONAL BUILDING INSPECTION
12420 S.W. 75th AVE., / MIAMI, FLORIDA 33156
TELEPHONE: (305) 378-1244
Established 1976

NATIONAL SOCIETY OF
PROFESSIONAL ENGINEERS
FLORIDA ENGINEERING
SOCIETY

30 May, 2013

City of Miami Beach
Building Department
1700 Convention Center Drive
Miami Beach, Florida 33139

**Ref: 15 E. San Marino Drive
Miami Beach, Florida**

Att: Building Official

We have been retained by the owners of 15 E. San Marino Drive, Miami Beach, to provide special inspector services as defined in section 105 of the F.B.C. The repairs are to be performed by Robbins Gunite under contract to the owner.

The repairs will consist of structural repair to the following:

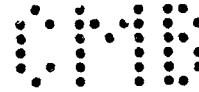
- A. Structural repair of 160 lineal feet of spalled reinforced concrete grade beam
- B. Structural repair of 300 square feet of spalled reinforced concrete floor slab soffit
- C. Structural repair of 600 lineal feet of reinforced concrete rib joist.

The area of repair is shown on the attached survey

Repair Procedure

- 1. Remove all loose and spalling concrete using a light chipping hammer.
- 2. Inspect exposed interior reinforcing steel and replace any steel damaged in excess of 10%. Should laps be required, at least 48 bar diameters or 30 inch minimum is required as per ACI 318-11. Steel is to be 60 KSI. Concrete cover for steel rebar is to be a minimum of 1.5 inches. Coat steel with SIKA 110 or equivalent.
- 3. Embedment of rebar into existing concrete structures is to be a minimum of 9 inches and Sika 31 Gel epoxy is to be used.
- 4. Restore affected areas to original dimension using pneumatically applied concrete (Gunite).

- Note:**
- A. Concrete batch mix must comply with ACI Table 4.2.2 for locations subject to salt spray. Rebar cover must comply with FBC 1926.5. No work to be concealed without inspection by the Engineer-of-record. The engineer's inspections are in addition to those required by the Building Department.
 - B. The work is to be in accordance with the FBC 2010-Existing Bldg Manual Section 506.



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12420 S.W. 75th AVE., / MIAMI, FLORIDA 33156
TELEPHONE: (305) 378-1244
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Page 2

15 E. San Marino Dr

- C. Preliminary Inspection showed the structure to have less than substantial structural damage**
- D. The areas defined above will be inspected after all loose material is removed to determine if the extent of damage exceeds expectation.**

In progress inspections will be performed and a final inspection report will be forwarded upon completion.

Very truly yours,

J.N. Sheingold, P.E. 21181

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NATIONAL ACADEMY
OF BUILDING INSPECTION
ENGINEERS

J. N. Sheingold, P.E.

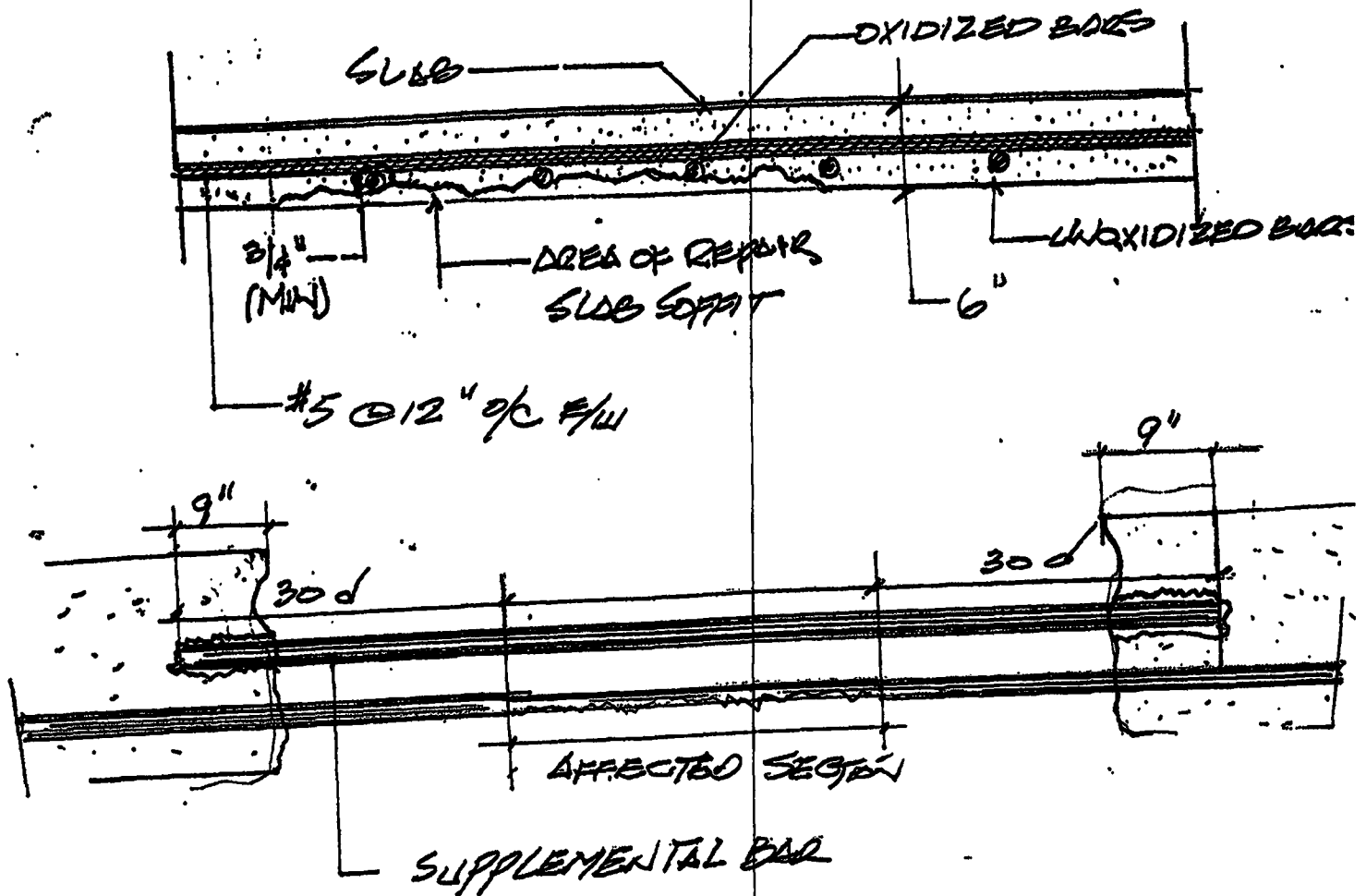
CONSULTING ENGINEER
PROFESSIONAL BUILDING INSPECTION
12420 S.W. 75th AVE., / MIAMI, FLORIDA 33156
TELEPHONE: (305) 378-1244
Established 1976

NATIONAL SOCIETY OF
PROFESSIONAL ENGINEERS

FLORIDA ENGINEERING
SOCIETY

30 MAY 2013

15 E. SAN MARINO DR.



[Signature]
5/30/13

AMERICAN SOCIETY
OF CIVIL ENGINEERS

NATIONAL ACADEMY
OF BUILDING INSPECTION
ENGINEERS

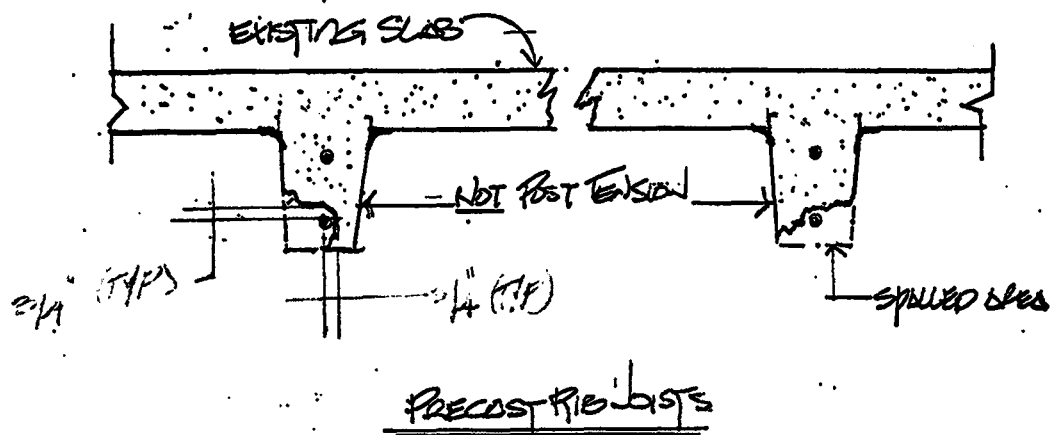
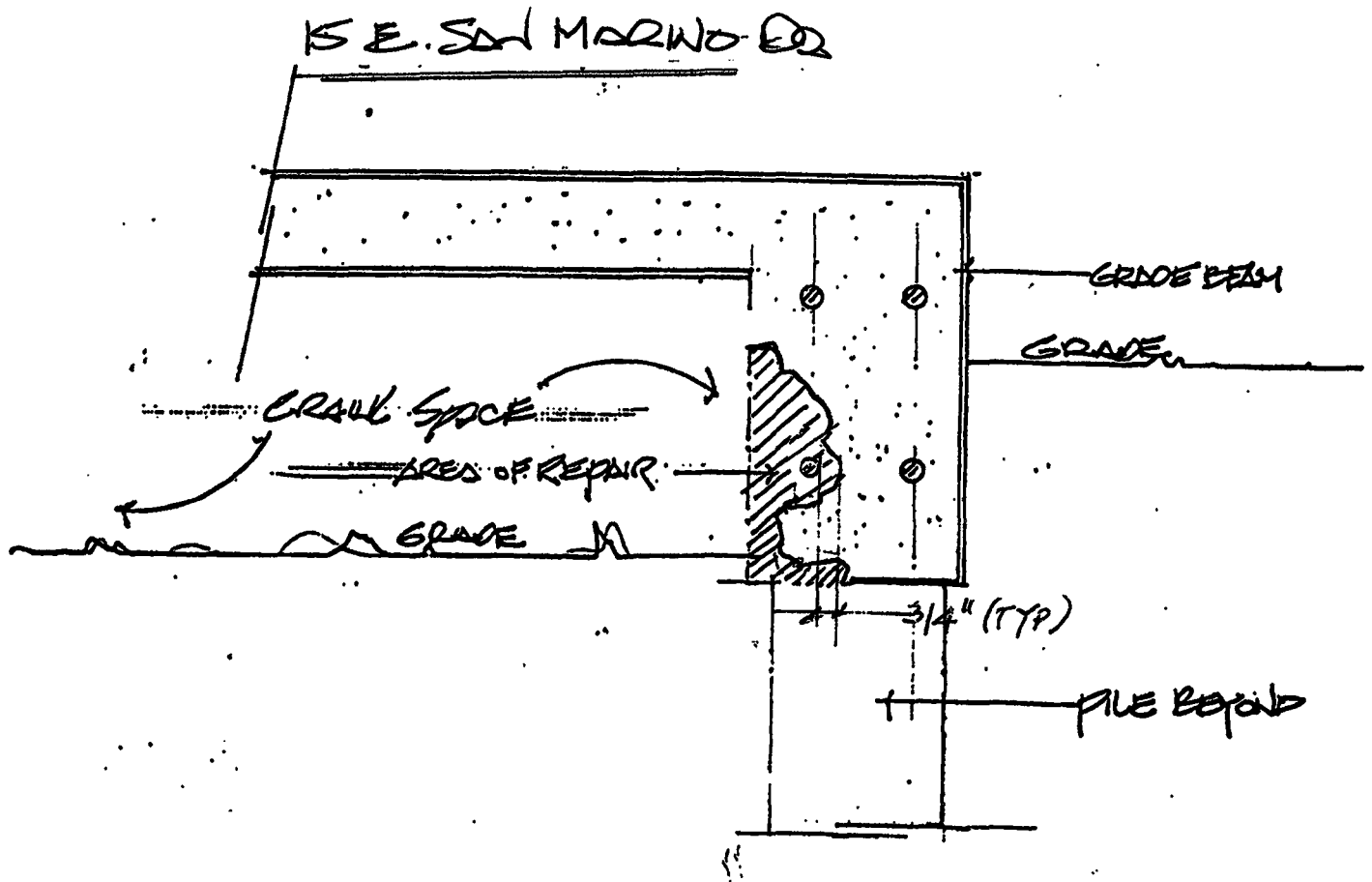
J. N. Sheingold, P.E.

CONSULTING ENGINEER
PROFESSIONAL BUILDING INSPECTION
12420 S.W. 75th AVE., / MIAMI, FLORIDA 33156
TELEPHONE: (305) 378-1244
Established 1976

NATIONAL SOCIETY OF
PROFESSIONAL ENGINEERS

FLORIDA ENGINEERING
SOCIETY

30 MAY 2013



[Signature]
5/30/13

Florida Building Code Edition 2010
High Velocity Hurricane Zone Uniform Permit Application Form

Section A (General Information)

Master Permit No. 01501138 Process No. _____

Contractor's Name American Construction & Repairs Inc.

Job Address 13 E. San Marino Dr

ROOF CATEGORY

- ☐ Low Slope ☐ Mechanically Fastened Tile ☒ Mortar/Adhesive Set Tile
☐ Asphaltic Shingles ☐ Metal Panel/Shingles ☐ Wood Shingles/Shakes

☐ Prescriptive BSR-BAS 150

ROOF TYPE

- ☐ New Roof ☒ Reroofing ☐ Repair ☐ Maintenance

ROOF SYSTEM INFORMATION

Low Slope Roof Area (SF) 1822 Steep Sloped Roof Area (SF) 1822 Total (SF) 3644

SECTION B (Roof Plan)

Sketch Roof Plan. Illustrate all levels and sections, roof drainage, scuppers, overflow drains. Include dimensions of sections and levels, clearly identify dimensions of elevated pressure zones and location of parapets.

City of Miami Beach
Building Department
Roofing Permit
OFFICE 2024

REVIEW TYPE: Initial
REVIEWER: [Signature]
DATE: 11/05/14

See Attached Drawings

B1501138



"Delivering Excellence Every Day"

SECTION 1524

HIGH VELOCITY HURRICANE ZONES-- REQUIRED OWNERS NOTIFICATION FOR ROOFING CONSIDERATIONS

1524.1 Scope. As it pertains to this section, it is the responsibility of the roofing contractor to provide the owner with the required roofing permit, and to explain to the owner the content of this section. The provisions of Chapter 15 of the *Florida Building Code, Building* govern the minimum requirements and standards of the industry for roofing system installations. Additionally, the following items should be addressed as part of the agreement between the owner and the contractor. The owner's initial in the designated space indicates that the item has been explained.

☒ **1. Aesthetics-workmanship:** The workmanship provisions of Chapter 15 (High Velocity Hurricane Zone) are for the purpose of providing that the roofing system meets the wind resistance and water intrusion performance standards. Aesthetics (appearance) are not a consideration with respect to workmanship provisions. Aesthetic issues such as color or architectural appearance, that are not part of a zoning code, should be addressed as part of the agreement between the owner and the contractor.

☒ **2. Renailing wood decks:** When replacing roofing, the existing wood roof deck may have to be renailed in accordance with the current provisions of Chapter 16 (High Velocity Hurricane Zones) of the *Florida Building Code*. (The roof deck is usually concealed prior to removing the existing roof system).

☒ **3. Common roofs:** Common roofs are those which have no visible delineation between neighboring units (i.e. townhouses, condominiums, etc.). In buildings with common roofs, the roofing contractor and/or owner should notify the occupants of adjacent units of roofing work to be performed.

☒ **4. Exposed ceilings:** Exposed, open beam ceilings are where the underside of the roof decking can be viewed from below. The owner may wish to maintain the architectural appearance; therefore, roofing nail penetrations of the underside of the decking may not be acceptable. The owner provides the option of maintaining this appearance.

☒ **5. Ponding water:** The current roof system and/or deck of the building may not drain well and may cause water to pond (accumulate) in low-lying areas of the roof. Ponding can be an indication of structural distress and may require the review of a professional structural engineer. Ponding may shorten the life expectancy and performance of the new roofing system. Ponding conditions may not be evident until the original roofing system is removed. Ponding conditions should be corrected.

☒ **6. Overflow scuppers (wall outlets):** It is required that rainwater flow off so that the roof is not overloaded from a build up of water. Perimeter/edge walls or other roof extensions may block this discharge if overflow scuppers (wall outlets) are not provided. It may be necessary to install overflow scuppers in accordance with the requirements of: Chapter 15 and 16 herein and the *Florida Building Code, Plumbing*.

☒ **7. Ventilation:** Most roof structures should have some ability to vent natural airflow through the interior of the structural assembly (the building itself). The existing amount of attic ventilation shall not be reduced. **Exception:** Attic spaces, designed by a Florida-licensed engineer or registered architect to eliminate the attic venting, venting shall not be required.

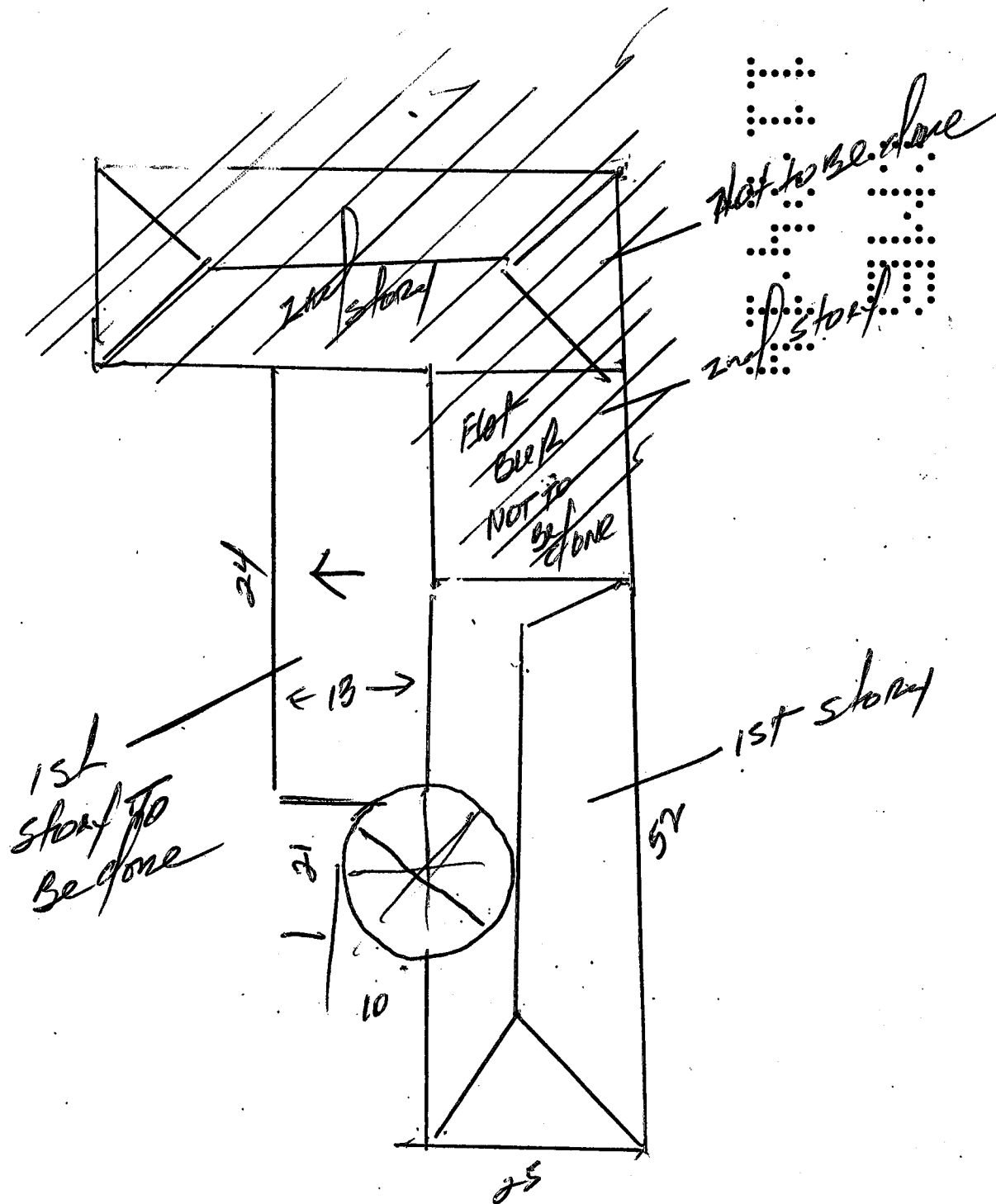
Owner's/Agent's Signature:

Date: 11 / 25 / 14

Contractor's Signature:

Permit Number:

Property Address: 15 E. San Tranno Dr



4:12 16'

Florida Building Code Edition 2010
High Velocity Hurricane Zone Uniform Permit Application Form

Section D (Steep Sloped Roof System)

Roof System Manufacturer:	HANSON ROOFING
Product Approval Number:	12-1218,14
Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):	P1: 7.46 P2: 18.98 P3: 31.88
Maximum Design Pressure	40.4
Product Approval Specific System:	SM 2
Method of Tile Attachment:	POLYFOAM Medium Pottery 24 grams

Steep Sloped System Description

Roof Slope: 4 : 12	Deck Type:	Plywood min 5/8"
	Type Underlayment:	30# ASTM D226 Type II
	Insulation:	N/A
	Fire Barrier:	N/A
	Fastener Type & Spacing:	1 1/4" RS 604 1 5/8" TC
	Adhesive Type:	N/A. See Material
	Type Cap Sheet:	Polyglass Tile Flash
	Roof Covering:	HANSON CHARTER SHAIRED
	Type & Size Drips	3x3 26 ga GALV
	Edge:	
Ridge Ventilation?	N/A	
Mean Roof Height:	14'	

10 in. LAYERS
2 ROWS @ 12" OC. FINISH

Florida Building Code Edition 2010
High Velocity Hurricane Zone Uniform Permit Application Form

Section E (Tile Calculations)

For Moment based tile systems, choose either Method 1 or 2. Compare the values for M_r with the values from M_i . If the M_r values are greater than or equal to the M_i values, for each area of the roof, then the tile attachment method is acceptable.

Method 1 "Moment Based Tile Calculations Per RAS 127"

$(P_1: 47.9 \times \lambda, 330 = 1551) - M_g: 8.05 = M_{r1} 746$ Product Approval M_i 404
 $(P_2: 81.1 \times \lambda, 330 = 2703) - M_g: 8.05 = M_{r2} 1898$ Product Approval M_i 404
 $(P_3: 121.0 \times \lambda, 330 = 3993) - M_g: 8.05 = M_{r3} 3188$ Product Approval M_i 40

Method 2 "Simplified Tile Calculation Per Table Below"

Required Moment of Resistance (M_r) From Table Below _____ Product Approval M_i _____

M _r Required Moment Resistance*					
Mean Roof Height → Roof Slope ↓	15'	20'	25'	30'	40'
2:12	34.4	36.5	38.2	39.7	42.2
3:12	32.2	34.4	36.0	37.4	39.8
4:12	30.4	32.2	33.8	35.1	37.3
5:12	28.4	30.1	31.6	32.8	34.9
6:12	26.4	28.0	29.4	30.5	32.4
7:12	24.4	25.9	27.1	28.2	30.0

*Must be used in conjunction with a list of moment based tile systems endorsed by the Broward County Board of Rules and Appeals.

For Uplift based tile systems use Method 3. Compare the values for F' with the values for F_r . If the F' values are greater than or equal to the F_r values, for each area of the roof, then the tile attachment method is acceptable.

Method 3 "Uplift Based Tile Calculations Per RAS 127"

$(P_1: \text{ } \times 1: \text{ } = \text{ } \times w: \text{ } = \text{ }) - W: \text{ } \times \cos \theta: \text{ } = F_{r1}$ Product Approval F' _____
 $(P_2: \text{ } \times 1: \text{ } = \text{ } \times w: \text{ } = \text{ }) - W: \text{ } \times \cos \theta: \text{ } = F_{r2}$ Product Approval F' _____
 $(P_3: \text{ } \times 1: \text{ } = \text{ } \times w: \text{ } = \text{ }) - W: \text{ } \times \cos \theta: \text{ } = F_{r3}$ Product Approval F' _____

Where to Obtain Information		
Description	Symbol	Where to find
Design Pressure	P1 or P2 or P3	RAS 127 Table 1 or by an engineering analysis prepared by PE based on ASCE 7
Mean Roof Height	H	Job Site
Roof Slope	θ	Job Site
Aerodynamic Multiplier	λ	Product Approval
Restoring Moment due to Gravity	M_g	Product Approval
Attachment Resistance	M_i	Product Approval
Required Moment Resistance	M_r	Calculated
Minimum Attachment Resistance	F'	Product Approval
Required Uplift Resistance	F_r	Calculated
Average Tile Weight	W	Product Approval
Tile Dimensions,	l = length w = width	Product Approval

All calculations must be submitted to the Building Official at the time of permit application.



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

B1501138

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474

T (786) 315-2590 • F (786) 315-2599

www.miamidade.gov/pers

NOTICE OF ACCEPTANCE (NOA)

Hanson Roof Tile
1340 SW 34 Ave
Deerfield Beach, FL. 33442

SCOPE:

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

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

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

DESCRIPTION: Hanson Flat Tile including Slate, Chalet Shake, Southern Shake, and Victorian Slate

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 renews NOA# 10-0706.08 and consists of pages 1 through 9.
The submitted documentation was reviewed by Alex Tigera.



[Signature]

NOA No.: 12-1218.14
Expiration Date: 04/10/18
Approval Date: 03/21/13
Page 1 of 9

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Roofing Tiles
Material: Concrete

1. SCOPE

This is a new system using Hanson Flat Tile including Slate, Chalet Shake, Southern Shake, and Victorian Slate, as manufactured by Hanson Roof Tile Inc. in Deerfield Beach, Florida and described in Section 2 of this Notice of Acceptance. For locations where the pressure requirements, as determined by applicable Building Code does not exceed the design pressure values obtained by calculations in compliance with RAS 127 using the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

2. PRODUCT DESCRIPTION

<u>Manufactured by</u> <u>Applicant</u>	<u>Dimensions</u>	<u>Test</u> <u>Specifications</u>	<u>Product</u> <u>Description</u>
Hanson Flat Tile	l = 17.25" w = 13"	TAS 112	Flat, interlocking, concrete tile equipped with two nail holes. For direct deck or battened nail-on, mortar or adhesive set applications.
Hanson Slate	l = 17.25" w = 13"	TAS 112	Flat, interlocking, concrete tile equipped with two nail holes. For direct deck or battened nail-on, mortar or adhesive set applications.
Hanson Chalet Shake	l = 17.25" w = 13"	TAS 112	Flat, interlocking, concrete tile equipped with two nail holes. For direct deck or battened nail-on, mortar or adhesive set applications.
Hanson Southern Shake	l = 17.25" w = 13"	TAS 112	Flat, interlocking, concrete tile equipped with two nail holes. For direct deck or battened nail-on, mortar or adhesive set applications.
Hanson Victorian Slate	l = 17.25" w = 13"	TAS 112	Flat, interlocking, concrete tile equipped with two nail holes. For direct deck or battened nail-on, mortar or adhesive set applications.
Trim Pieces	l = varies w = varies varying thickness	TAS 112	Accessory trim, concrete roof pieces for use at hips, rakes, ridges and valley terminations. Manufactured for each tile profile.

2.1 PRODUCT DESCRIPTION

1. Deerfield Beach, FL.



NOA No.: 12-1218.14
Expiration Date: 04/10/18
Approval Date: 03/21/13
Page 2 of 9

2.2 SUBMITTED EVIDENCE:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
IBA Consultants, Inc.	2381-265	TAS 112	Feb. 2008
Redland Technologies	7161-03	Static Uplift Testing	Dec. 1991
	Appendix III	TAS 102 & TAS 102(A)	
The Center for Applied Engineering, Inc.	94-084	Static Uplift Testing	May 1994
The Center for Applied Engineering, Inc.	94-060A	TAS 101 (Mortar Set)	
The Center for Applied Engineering, Inc.	25-7094-2	Static Uplift Testing	March, 1994
		TAS 101 (Adhesive Set)	
		Static Uplift Testing TAS 102	Oct. 1994
		(4" Headlap, Nails, Direct Deck, New Construction)	
The Center for Applied Engineering, Inc.	25-7094-8	Static Uplift Testing TAS 102	Oct. 1994
		(4" Headlap, Nails, Battens)	
The Center for Applied Engineering, Inc.	25-7094-5	Static Uplift Testing TAS 102	Oct. 1994
		(4" Headlap, Nails, Direct Deck, Recover/Reroof)	
The Center for Applied Engineering, Inc.	25-7183-6	Static Uplift Testing TAS 102	Feb. 1995
		(2 Quik-Drive Screws, Direct Deck)	
The Center for Applied Engineering, Inc.	25-7183-5	Static Uplift Testing TAS 102	Feb. 1995
		(2 Quik-Drive Screws, Battens)	
The Center for Applied Engineering, Inc.	25-7214-1	Static Uplift Testing TAS 102	March, 1995
		(1 Quik-Drive Screw, Direct Deck)	
The Center for Applied Engineering, Inc.	25-7214-5	Static Uplift Testing TAS 102	March, 1995
		(1 Quik-Drive Screw, Battens)	
Redland Technologies	7161-03	Wind Tunnel Testing	Dec. 1991
	Appendix II	TAS 108 (Nail-On)	
Redland Technologies	Letter Dated Aug. 1, 1994	Wind Tunnel Testing	Aug. 1994
		TAS 108 (Nail-On)	
Redland Technologies	P0631-01	Wind Tunnel Testing	July 1994
		TAS 108 (Mortar Set)	
Redland Technologies	P0402	Withdrawal Resistance Testing of screw vs. smooth shank nails	Sept. 1993
The Center for Applied Engineering, Inc.	Project No. 307025	Wind Driven Rain TAS 100	Oct. 1994
Nutting Engineering	Test #MDC-77		
	13343.1	Physical Properties TAS 112	Aug. 2006
Celotex Corporation Testing Service	520109-1	Static Uplift Testing TAS 101	Dec. 1998
	520111-4		
Celotex Corporation Testing Service	520191-1	Static Uplift Testing TAS 101	March 1999
Walker Engineering, Inc.	Calculations	Aerodynamic Multiplier	May 2006
Walker Engineering, Inc.	Calculations	Restoring Moments	May 2006
Walker Engineering, Inc.	Evaluation Calculations	25-7094	February 1996
Walker Engineering, Inc.	Evaluation Calculations	25-7496	April 1996

MIAMI-DADE COUNTY
APPROVED

NOA No.: 12-1218.14
Expiration Date: 04/10/18
Approval Date: 03/21/13
Page 3 of 9

2.2 SUBMITTED EVIDENCE:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Walker Engineering, Inc.	Evaluation Calculations	25-7584 25-7804b-8 25-7804-4 & 5 25-7848-6 25-7183	December 1996 March 1995 April 1999
Walker Engineering, Inc.	Evaluation Calculations	Two Patty Adhesive Set System	
Walker Engineering, Inc.	Calculations		

3. LIMITATIONS

- 3.1 Fire classification is not part of this acceptance.
- 3.2 For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with TAS 106.
- 3.3 Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Building Code Compliance Office for review.
- 3.4 Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
- 3.5 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.6 This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.

4. INSTALLATION

- 4.1 Hanson Flat Tile including Slate, Chalet Shake, Southern Shake, and Victorian Slate and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119, and RAS 120.
- 4.2 Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w)			
Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
Hanson Flat Tile including Slate, Chalet Shake, Southern Shake, and Victorian Slate	11.6	1.4375	1.08

Table 2: Aerodynamic Multipliers - λ (ft ³)		
Tile Profile	λ (ft ³) Batten Application	λ (ft ³) Direct Deck Application
Hanson Flat Tile including Slate, Chalet Shake, Southern Shake, and Victorian Slate	0.304	0.330



Table 3: Restoring Moments due to Gravity - M _g (ft-lbf)												
Tile Profile	2":12"		3":12"		4":12"		5":12"		6":12"		7":12" or greater	
Hanson Flat Tile including Slate, Chalet Shake, Southern Shake, and Victorian Slate	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck
	7.53	8.25	7.46	8.17	7.35	8.05	7.20	7.88	7.02	7.69	6.83	7.48

Table 4: Attachment Resistance Expressed as a Moment - M_r (ft-lbf) for Nail-On Systems				
Tile Profile	Fastener Type	Direct Deck (min 15/32" plywood)	Direct Deck (min. 19/32" plywood)	Battens
Hanson Flat Tile including Slate, Chalet Shake, Southern Shake, and Victorian Slate	2-10d Ring Shank Nails	30.9	38.1	17.2
	1-10d Smooth or Screw Shank Nail	7.3	9.8	4.9
	2-10d Smooth or Screw Shank Nails	14.0	18.8	7.4
	1 #8 Screw	30.8	30.8	18.2
	2 #8 Screw	51.7	51.7	24.4
	1-10d Smooth or Screw Shank Nail (Field Clip)	24.3	24.3	24.2
	1-10d Smooth or Screw Shank Nail (Eave Clip)	19.0	19.0	22.1
	2-10d Smooth or Screw Shank Nails (Field Clip)	35.5	35.5	34.8
	2-10d Smooth or Screw Shank Nails (Eave Clip)	31.9	31.9	32.2
	2-10d Ring Shank Nails ¹	50.3	65.5	48.3
¹ Installation with a 4" tile headlap and fasteners are located a min. of 2½" from head of tile.				



Table 6: Attachment Resistance Expressed as a Moment M_r (ft-lbf) for Two Patty Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
Hanson Flat Tile including Slate, Chalet Shake, Southern Shake, and Victorian Slate	Adhesive ²	31.3 ³
2 See manufactures component approval for installation requirements.		
3 Flexible Products Company TileBond Average weight per patty 13.9 grams. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 Average weight per patty 8 grams.		

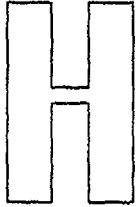
Table 7: Attachment Resistance Expressed as a Moment - M_r (ft-lbf) for Single Patty Adhesive Set Systems		
Tile Profile	Tile Application	Minimum Attachment Resistance
Hanson Flat Tile including Slate, Chalet Shake, Southern Shake, and Victorian Slate	3M™ 2-Component Foam Roof Tile Adhesive AH-160	118.9 ⁴
	3M™ 2-Component Foam Roof Tile Adhesive AH-160	40.4 ⁵
4 Large paddy placement of 45grams of 3M™ 2-Component Foam Roof Tile Adhesive AH-160.		
5 Medium paddy placement of 24grams of 3M™ 2-Component Foam Roof Tile Adhesive AH-160.		

Table 8: Attachment Resistance Expressed as a Moment - M_r (ft-lbf) for Mortar Set Systems		
Tile Profile	Tile Application	Attachment Resistance
Hanson Flat Tile including Slate, Chalet Shake, Southern Shake, and Victorian Slate	Mortar Set ⁶	39.0
6 See specific mortar manufacturers Notice of Acceptance		

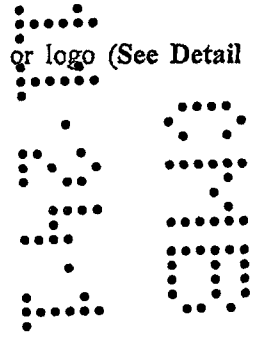
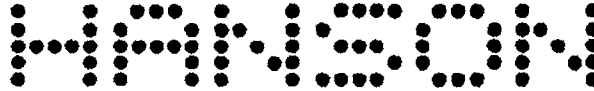


5. LABELING

All tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo (See Detail Below), or following statement: "Miami-Dade County Product Control Approved".



AND/OR



HANSON FLAT TILE INCLUDING SLATE, CHALET SHAKE, SOUTHERN SHAKE, AND VICTORIAN SLATE
(LOCATED ON UNDERSIDE OF TILE)

6. BUILDING PERMIT REQUIREMENTS

6.1 Application for building permit shall be accompanied by copies of the following:

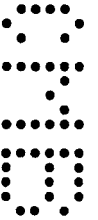
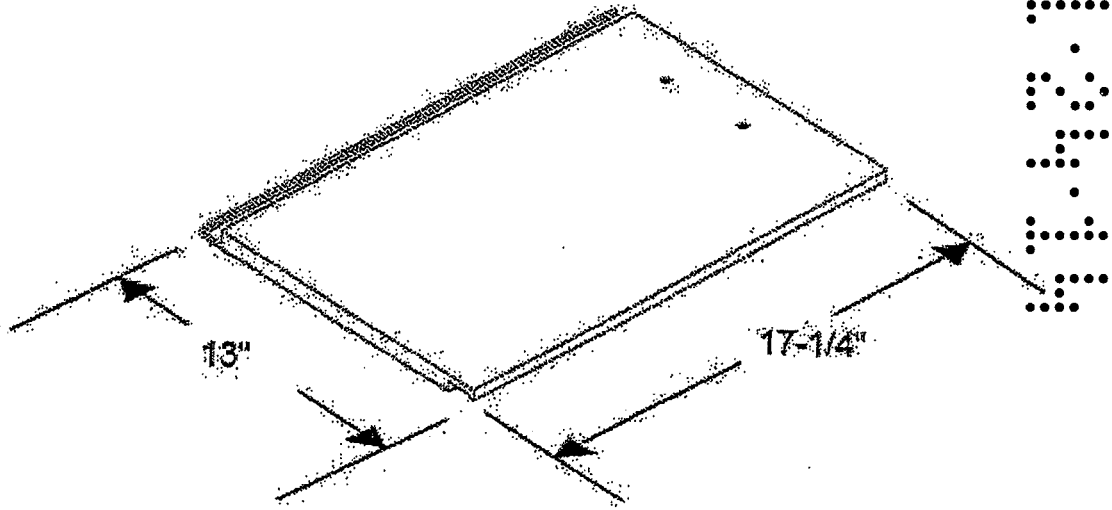
6.1.1 This Notice of Acceptance.

6.1.2 Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this system.

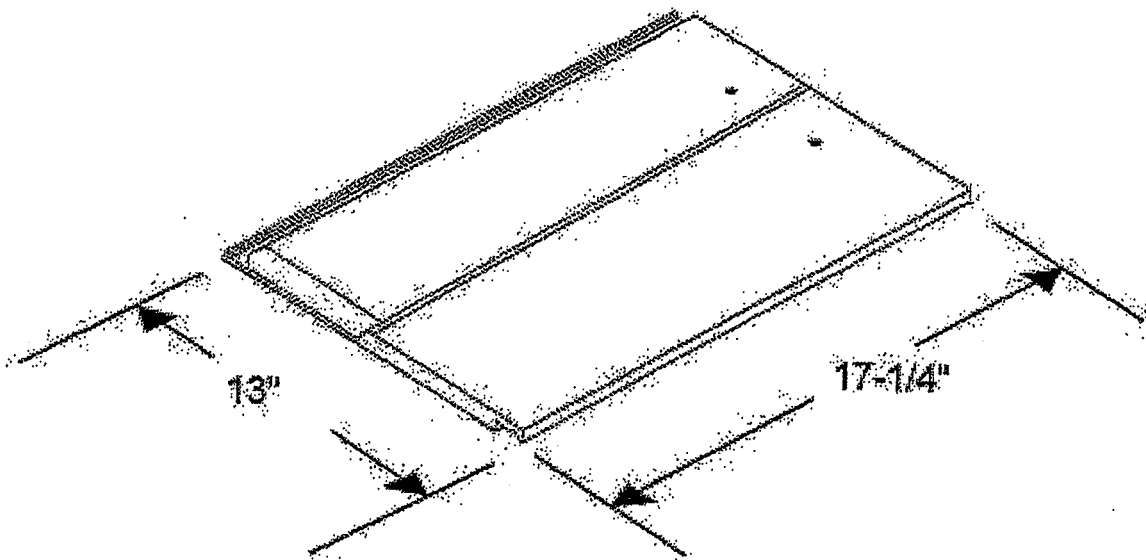


NOA No.: 12-1218.14
Expiration Date: 04/10/18
Approval Date: 03/21/13
Page 7 of 9

PROFILE DRAWINGS

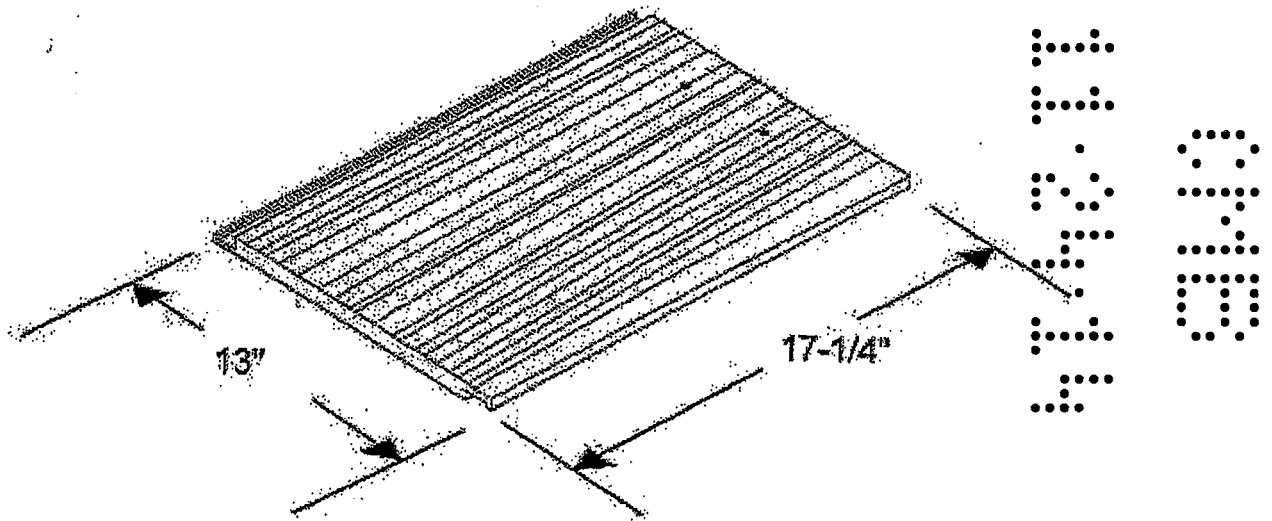


HANSON SLATE TILE

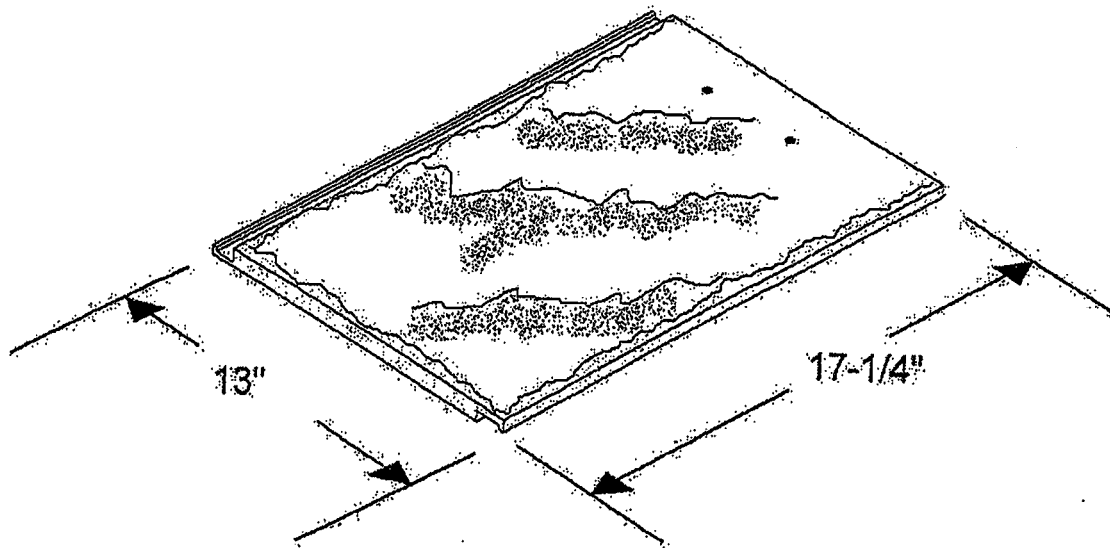


CHALET SHAKE TILE





SOUTHERN SHAKE



VICTORIAN SLATE

END OF THIS ACCEPTANCE





DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

150138

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Polyglass USA Inc.
150 Lyon Drive
Fernley, NV 89408

SCOPE:

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

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

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

DESCRIPTION: Polyglass Polystick Underlayments

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 revises NOA #11-1229.01 and consists of pages 1 through 8.
The submitted documentation was reviewed by Alex Tigera.

Alex Tigera



NOA No.: 12-0713.02
Expiration Date: 09/13/16
Approval Date: 02/14/13
Page 1 of 8

ROOFING COMPONENT APPROVAL

Category: Roofing
Sub-Category: Underlayment
Material: SBS , APP Self-Adhering Modified Bitumen

PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Polystick MTS underlayment <i>Manufacturing Location #2</i>	Roll: 65'8" x 3'3-3/8" 60 mils thick	TAS 103	A homogeneous, rubberized asphalt waterproofing membrane, glass fiber reinforced with polyolefinic film on the upper surface for use as an underlayment for metal roofing, roof tile, slate tiles and shingle underlayment.
Polystick IR-Xe underlayment <i>Manufacturing Location #1 & #2</i>	Roll: 65' x 3'3-3/8" Or 65' x 3' 60 mils thick	TAS 103 and ASTM D 1970	A fine granular/sand top surface self-adhering, APP polymer modified, fiberglass reinforced, bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as an ice & rain shield and as a flat roof tile underlayment.
Polystick TU underlayment <i>Manufacturing Location #1 & #2</i>	Roll: 32'10" x 3'3-3/8" 100 mils thick	TAS 103 and ASTM D 1970	A heavy granuled surface self adhering, APP polymer modified, fiberglass or polyester reinforced, bituminous sheet material for use as an underlayment in sloped roof assemblies. Designed as a a roof tile underlayment.
Polystick TU Plus underlayment (Surface Printing) <i>Manufacturing Location #1 & #2</i>	Roll: 65' x 3'3-3/8" 80 mils thick	TAS 103 and ASTM D 1970	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.
Polystick TU P underlayment <i>Manufacturing Location #2</i>	Roll: 32'10" x 3'3-3/8" 130 mils thick	TAS 103 and ASTM D 1970	A rubberized asphalt waterproofing membrane, glass-fiber/polyester reinforced, with a granular surface designed for use as a tile roof underlayment.
Polystick Tile Pro <i>Manufacturing Location #2</i>	Roll: 61' x 3'3-3/8" 60 mils thick	TAS 103 and ASTM D 1970	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.
Polystick Dual Pro <i>Manufacturing Location #2</i>	Roll: 61' x 3'3-3/8" 60 mils thick	TAS 103 and ASTM D 1970	A rubberized asphalt self-adhering, glass-fiber/polyester reinforced waterproofing membrane. Designed as a metal roofing and roof tile underlayment.



PRODUCTS DESCRIPTION:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specification</u>	<u>Product Description</u>
Polystick TU Max <i>Manufacturing Location</i> #2	Roll: 65'8" x 3'3-3/8" 60 mils thick	TAS 103 and ASTM D 1970	A rubberized asphalt self-adhering, polyester reinforced waterproofing membrane. Designed as a roof tile underlayment.

MANUFACTURING PLANTS:

1. Hazelton, PA
2. Winter Haven, FL

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Exterior Research & Design, LLC	11756.04.01-1	TAS 103	04/27/01
	11756.08.01-1	ASTM D 1970	08/14/01
Trinity ERD	02202.08.05	TAS 103	08/29/05
	P5110.08.07	TAS 103	08/29/07
	P10870.09.08-R1	TAS 103	12/04/08
	P10870.04.09	TAS 103/ASTM D4798 & G155	04/13/09
	P33360.06.10	ASTM D1970	07/01/10
	P33370.03.11	TAS 103	03/02/11
	P33370.04.11	ASTM D 1623	04/26/11
	P36900.09.11	TAS 103/ASTM D4798 & G155	09/01/11
	P37300.10.11	TAS 110/ASTM D4798 & D1970	10/19/11
	P40390.08.12-1	TAS 103 & TAS 110	08/06/12
	P40390.08.12-2	ASTM D 1623	08/07/12
	P40390.10.12	ASTM D 1970	10/03/12
	PRI01111	ASTM D 4977	04/08/02
PRI Asphalt Technologies	PUSA-005-02-01	ASTM D 4977	01/31/02
	PUSA-018-02-01	ASTM D 2523	07/14/03
	PUSA-035-02-01	TAS 103	09/29/06
	PUSA-033-02-01	ASTM D 1970	01/12/06
	PUSA-055-02-02	TAS 103	12/10/07
	PUSA-083-02-01	TAS 103	06/30/08
	PUSA-089-02-01	TAS 103/ASTM D4798 & G155	07/06/09
	JX20H7A	TAS 103/ASTM D4798 & G155	04/01/08
Momentum Technologies, Inc.	RX14E8A	TAS 103/ASTM D4798 & G155	11/09/09
	DX23D8B	TAS 103/ASTM D4798 & G155	02/18/10
	DX23D8A	TAS 103/ASTM D4798 & G155	02/18/10

INSTALLATION PROCEDURES:

Deck Type 1:	Wood, non-insulated
Base Sheet:	One or more plies of ASTM D 226 Type II or ASTM D 2626.
Fastening:	Per FBC 1518.2 & 1518.4 Nails and tin caps 12" grid, 6" o.c. at a minimum 4" head lap. (for base sheet only)
Membrane:	Polystick membranes self-adhered.
Surfacing:	None

1. All nails in the deck shall be carefully checked for protruding heads. Re-fasten any loose decking panels, and sweep the deck thoroughly to remove any dust and debris prior to application.
2. Place the underlayment over metal drip edge in accordance with RAS 111.
3. Place the first course of membrane parallel to the eave, rolling the membrane to obtain maximum contact. Remove the release film as the membrane is applied. . All side laps shall be a minimum of 3-½" and end laps shall be a minimum of 6." Roll the membrane into place after removing the release strip. Vertical strapping of the roof with Polystick is acceptable. Membrane shall be back nailed in accordance with applicable building code.
4. When applying the membrane in the valley, start at the low point and work to the high point, rolling the membrane from the center outward in both directions.
5. For ridge applications, center the membrane and roll from the center outward in both directions.
6. Roll or broom the entire membrane surface so as to have full contact with the surface, giving special attention to lap areas.
7. Flash vent pipes, stacks, chimneys and penetrations in compliance with Roof Assembly current Product Control Notice of Acceptance.
8. All protrusions or drains shall be initially taped with a 6" piece of underlayment. The flashing tape shall be pressed in place and formed around the protrusion to ensure a tight fit. A second layer of Polystick shall be applied over the underlayment.

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance.
2. Polystick MTS, TU Plus, Tile Pro and Dual Pro may be used in asphaltic shingles, wood shakes and shingles, non-structural metal roofing, roof tile systems and quarry slate roof assemblies. Polystick IR-Xe, TU, and TU P may be used in all the previous assemblies listed except metal roofing. Polystick TU Max may be used in roof tile systems only.
3. Deck requirements shall be in compliance with applicable building code.
4. Polyglass Polystick membranes shall be applied to a smooth, clean and dry surface. The deck shall be free of irregularities.
5. Polyglass Polystick membranes and underlayments shall not be adhered directly over a pre-existing roof membrane as a recover system.
6. Polyglass Polystick membranes shall not be left exposed as a temporary roof for longer than the amount of days listed in the table below after application. Polyglass reserves the right to revise or alter product exposure times; not to exceed the preceeding maximum time limitations.

Exposure Limitations (days)								
	MTS	IR-Xe	TU	TU Plus	TU P	Tile Pro	Dual Pro	TU Max
Winter Haven, FL.	180	180	180	180	180	180	180	180
Hazleton, PA.	N/A	30	30	180	N/A	N/A	N/A	N/A

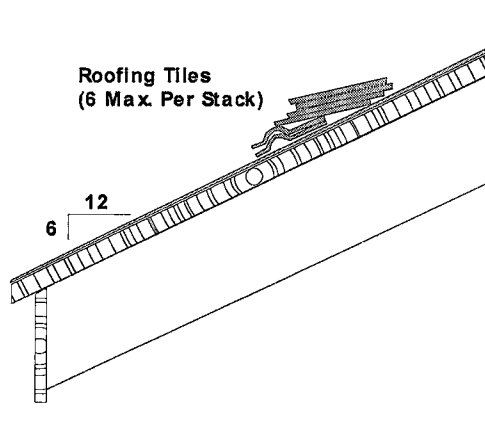
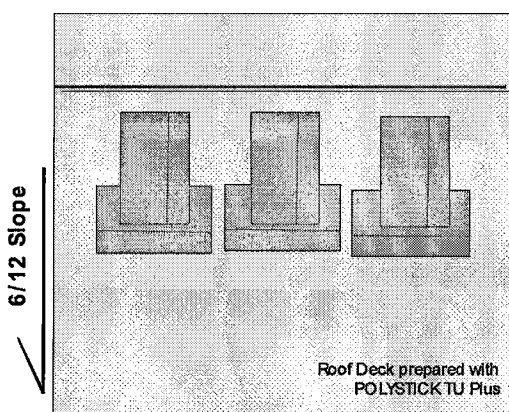
7. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.
8. In roof tile application, data for the attachment resistance of roof tiles shall be as set forth in the roof tile manufacturer's Notice of Acceptance. Polystick TU, TU Plus, Tile Pro and TU Max may be used in both adhesive set and mechanically fastened roof tile applications. Polystick IR-Xe, and Dual Pro are limited to mechanically fastened roof tile applications. Polystick MTS is limited to mechanically fastened with battens roof tile applications. Polystick TU P may be used in both adhesive set and mechanically fastened roof tile applications with the exception of mortar set tile applications.
9. The maximum roof slope for use as roof tile underlayment for (direct-to-deck) tile assemblies shall be as follows: (See Table Below)

Tile Profile	Polystick MTS	Polystick IR-Xe	Polystick TU, TU Plus, TU P, Tile Pro	Polystick TU Max
Flat Tile	Prohibited without battens	5:12	No limitation	No limitation
Profiled Tile	Prohibited without battens	Prohibited	No limitation	No limitation

The above slope limitations can be exceeded only by using battens and counter battens in accordance with the Approved Tile System Notice of Acceptance and applicable Florida Building Code requirements. **Battens are required for both loading and installation of tiles at all times.**

GENERAL LIMITATIONS: (CONTINUED)

10. Care should be taken during the loading procedure to keep foot traffic to a minimum and to avoid dropping of tile directly on the underlayment. Refer to Polyglass' Tile loading detail below for loading procedure for all underlayments except Polystick MTS which shall be loaded onto battens.



11. Refer to prepared roofing system Product Control Notice of Acceptance for listed approval of this product with specific prepared roofing products. Polystick MTS, IR-Xe, TU, TU Plus, TU P, TU Max, Dual Pro and Tile Pro may be used with any approved roof covering Notice of Acceptance listing Polystick MTS, IR-Xe, TU, TU Plus, TU P, TU Max, Dual Pro and Tile Pro as a component part of an assembly in the Notice of Acceptance. If Polystick MTS, IR-Xe, TU, TU Plus, TU P, TU Max, Dual Pro and Tile Pro is not listed, a request may be made to the Authority Having Jurisdiction (AHJ) or the Miami-Dade County Product Control Department for approval provided that appropriate documentation is provided to detail compatibility of the products, wind uplift resistance, and fire testing results.

LABELING:

1. All membranes or packaging shall bear the imprint or identifiable marking of the manufacturer's name or logo, city and state of manufacturing facility and the following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



BUILDING PERMIT REQUIREMENTS:

Application for building permit shall be accompanied by copies of the following:

1. This Notice of Acceptance.
2. Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this materials.



NOA No.: 12-0713.02
Expiration Date: 09/13/16
Approval Date: 02/14/13
Page 6 of 8

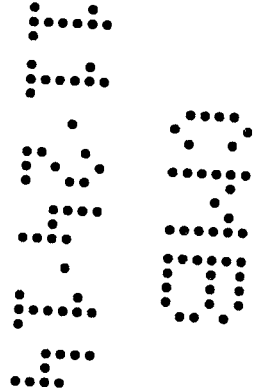
POLYGLASS GENERAL APPLICATION GUIDELINES FOR POLYSTICK MEMBRANES:

1. Polyglass does accept the direct application of Polystick underlayment membranes to wood decks. Installers are cautioned to refer to applicable local building codes prior to direct deck installation to ensure this is acceptable. Please also refer to applicable Product Data Sheets of the corresponding products.
2. All rolls, with the exception of Polystick TU Plus should be back-nailed in selvage edge seam as per Polyglass Back Nailing Guide. Nails shall be, 11 gauge ring shank type, applied with a minimum 1" metal disk as required in Dade County or simplex type nail as otherwise allowable in other regions, at a minimum rate of 12" o.c. Polystick TU Plus should be back nailed in designated area marked "nail area, area para clavar" on the face of membrane, with the above stated nails and/or disks. The head lap membrane is to cover the area being back-nailed. (Please refer to applicable local building codes prior to installation.)
3. All seal lap seams (selvage laps) must be rolled with a hand roller to ensure full contact.
4. All fabric over fabric; and granule over granule end laps, shall have a 6" wide, uniform layer of Polyglass Polyplus 55 Premium Modified Flashing Cement, Polyglass Polyplus 50 Premium MB Flashing Cement, Polyglass PG500 MB Flashing Cement, applied in between the application of the lap. The use of mastic between the laps does not apply to Polystick MTS.
5. A maximum of 6 tiles per stack are allowed when loading tile on the underlayments. Refer to the Polyglass Tile Loading Guidelines. See General Limitations #9 and #10.
6. Battens and/or Counter-battens, as required by the tile manufacturers NOA's, must be used on all projects for pitch/slopes of 7"/12" or greater. It is suggested that on pitch/slopes in excess of 6 1/4"/12", precautions should be taken, such as the use of battens to prevent tile sliding during the loading process.
7. Minimum cure time after membrane installation & before loading of roofing tiles is Forty-Eight (48) Hours.
8. Polystick membranes may not be used in any exposed application such as crickets, exposed valleys, or exposed roof to wall details.
9. Repair of Polystick membranes is to be accomplished by applying Polyglass Polyplus 55 Premium Modified Flashing Cement, Polyglass Polyplus 50 Premium MB Flashing Cement, Polyglass PG500 MB Flashing Cement to the area in need of repair, followed by a patch of the Polystick material of like kind should be set and hand rolled in place over the area needing such repair. Patching membrane shall be a minimum of 6 inches in either direction. The repair should be installed in such a way so that water will run parallel to or over the top of all laps of the patch.
10. All self-adhered membranes must be rolled to ensure full contact with approved substrates. Polyglass requires a minimum of 40 lbs for a weighted roller for the rolling of the field membrane. Hand rollers are acceptable for rolling of patches or small areas of the roof. Brooming may be used where slope prohibits rolling.
11. All approved substrates should be dry, clean and properly prepared, before any application of Polystick membranes commences. An approved substrate technical bulletin can be furnished upon request. It is recommended to refer to applicable building codes prior to installation to verify acceptable substrates.
12. The Polyglass Miami-Dade Notice of Acceptance (NOA) approval for Polystick membranes and PolyProtector UDL can be furnished upon request by our Technical Services Department by calling 1 (800) 894-4563.

13. Questions in regards to the application of Polyglass products should be directed to our Technical Services Department at 1 (800) 894-4563.
14. Polyglass recommends that applicators follow good roofing practices and applicable procedures as outlined by the National Roofing Contractors Association (NRCA).

PLEASE CHECK WITH LOCAL BUILDING CODES REGARDING LIMITATIONS OF SPECIFIC APPLICATIONS. LOCAL CODES MAY SUPERSEDE POLYGLASS REQUIREMENTS AND RECOMMENDATIONS.

END OF THIS ACCEPTANCE





DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

131501138

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208

Miami, Florida 33175-2474

T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera

NOTICE OF ACCEPTANCE (NOA)

3M Company

3M Center Building 0220-05-E-06

St. Paul, MN. 55144-1000

SCOPE:

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

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

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

DESCRIPTION: 3M™ 2-Component Foam Roof Tile Adhesive AH-160

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 renews and revises NOA# 11-0124.04 and consists of pages 1 through 7.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 12-0228.18
Expiration Date: 05/10/17
Approval Date: 05/10/12
Page 1 of 7

ROOFING COMPONENT APPROVAL:

Category: Roofing
Sub Category: Roof tile adhesive
Materials: Polyurethane

SCOPE:

This approves **3M™ 2-Component Foam Roof Tile Adhesive AH-160** as manufactured by **3M Company** as described in Section 2 of this Notice of Acceptance. For the locations where the design pressure requirements, as determined by applicable building code, does not exceed the design pressure values obtained by calculations in compliance with Roofing Application Standard RAS 127, for use with approved flat, low, and high profile roof tiles system using 2-Component Foam Roof Tile Adhesive AH-160. Where the attachment calculations are ~~done as~~ a moment based system for single patty placement, and as an uplift based system for double patty systems

PRODUCTS MANUFACTURED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
3M™ 2-Component Foam Roof Tile Adhesive AH-160	N/A	TAS 101	Two component polyurethane foam adhesive
Foam Dispenser RTF1000	N/A		Dispensing Equipment
ProPack® 30 & 100	N/A		Dispensing Equipment

PRODUCTS MANUFACTURED BY OTHERS:

Any Miami-Dade County Product Control Accepted Roof Tile Assembly having a current NOA which list moment resistance values with the use of 2-Component Foam Roof Tile Adhesive AH-160 roof tile adhesive.

MANUFACTURING LOCATION:

1. Tomball, TX.

PHYSICAL PROPERTIES:

<u>Property</u>	<u>Test</u>	<u>Results</u>
Density	ASTM D 1622	1.6 lbs./ft. ³
Compressive Strength	ASTM D 1621	18 PSI Parallel to rise 12 PSI Perpendicular to rise
Tensile Strength	ASTM D 1623	28 PSI Parallel to rise
Water Absorption	ASTM D 2127	0.08 Lbs./Ft ²
Moisture Vapor Transmission	ASTM E 96	3.1 Perm / Inch
Dimensional Stability	ASTM D 2126	+0.07% Volume Change @ -40° F., 2 weeks +6.0% Volume Change @158°F., 100% Humidity, 2 weeks
Closed Cell Content	ASTM D 2856	86%



NOA No.: 12-0228.18
Expiration Date: 05/10/17
Approval Date: 05/10/12
Page 2 of 7

Note: The physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Center for Applied Engineering	#94-060	TAS 101	04/08/94
	257818-1PA	TAS 101	12/16/96
	25-7438-3	SSTD 11-93	10/25/95
	25-7438-4		
	25-7438-7	SSTD 11-93	11/02/95
	25-7492	SSTD 11-93	12/12/95
Miles Laboratories Polymers Division	NB-589-631	ASTM D 1623	02/01/94
Ramtech Laboratories, Inc.	9637-92	ASTM E 108	04/30/93
Southwest Research Institute	01-6743-011	ASTM E 108	11/16/94
	01-6739-062b[1]	ASTM E 84	01/16/95
Trinity Engineering	7050.02.96-1	TAS 114	03/14/96
Celotex Corp. Testing Services	528454-2-1	TAS 101	10/23/98
	528454-9-1		
	528454-10-1		
	520109-1	TAS 101	12/28/98
	520109-2		
	520109-3		
	520109-6		
	520109-7		
	520191-1	TAS 101	03/02/99
	520109-2-1		

LIMITATIONS:

1. Fire classification is not part of this acceptance. Refer to the Prepared Roof Tile Assembly for fire rating.
2. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall solely be used with flat, low, & high tile profiles.
3. Minimum underlayment shall be in compliance with the Roofing Application Standard RAS 120.
4. Roof Tile manufactures acquiring acceptance for the use of 3M™ 2-Component Foam Roof Tile Adhesive AH-160 roof tile adhesive with their tile assemblies shall test in accordance with TAS 101.
5. Roof Tile manufactures acquiring acceptance for the use of HANDI-STICK roof tile adhesive with their tile assemblies shall test in accordance with TAS 101 with section 10.4 as modified herein.

$$F' = \frac{\left(\frac{F}{2} \right) - W}{MS}$$



NOA No.: 12-0228.18
 Expiration Date: 05/10/17
 Approval Date: 05/10/12
 Page 3 of 7

INSTALLATION:

1. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 may be used with any roof tile assembly having a current NOA that lists uplift resistance values with the use of 3M™ 2-Component Foam Roof Tile Adhesive AH-160.
2. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall be applied in compliance with the Component Application section and the corresponding Placement Details noted herein. The roof tile assembly's adhesive attachment with the use of 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall provide sufficient attachment resistance, expressed as an uplift based system, to meet or exceed the uplift resistance determined in compliance with Miami-Dade County Roofing Application Standards RAS 127. The adhesive attachment data is noted in the roof tile assembly NOA.
3. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 and its components shall be installed in accordance with Roofing Application Standard RAS 120, and 3M Company's 3M™ 2-Component Foam Roof Tile Adhesive AH-160 Operating Instruction and Maintenance Booklet.
4. Installation must be by a Factory Trained 'Qualified Applicator' approved and licensed by 3M Company. 3M Company shall supply a list of approved applicators to the authority having jurisdiction.
5. Calibration of the Foam Dispenser RTF1000 dispensing equipment is required before application of any adhesive. The mix ratio between the "A" component and the "B" component shall be maintained between 1:0.15 (A):1.0 (B). The dispense timer shall be set to deliver 0.0175 to 0.15 pounds per tile as determined at calibration. No other settings shall be approved.
6. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall be applied with Foam Dispenser RTF1000 or ProPack® 30 & 100 dispensing equipment only.
7. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 shall not be exposed permanently to sunlight.
8. Tiles must be adhered in freshly applied adhesive. Tile must be set within 2 to 3 minutes after 3M™ 2-Component Foam Roof Tile Adhesive AH-160 has been dispensed.
9. 3M™ 2-Component Foam Roof Tile Adhesive AH-160 placement and minimum patty weight shall be in accordance with the 'Placement Details' herein. Each generic tile profile requires the specific placement noted herein.

Table 1: Adhesive Placement For Each Generic Tile Profile

Tile Profile	Placement Detail	Single Paddy Weight Min. (grams)	Two Paddy Weight per paddy Min. (grams)
Flat, Low, High Profiles	#1	35	N/A
High Profile (2 Piece Barrel)	#1	17/side on cap and 34/pan	N/A
Flat, Low, High Profiles	#2	24	N/A
Flat, Low, High Profiles	#3		8

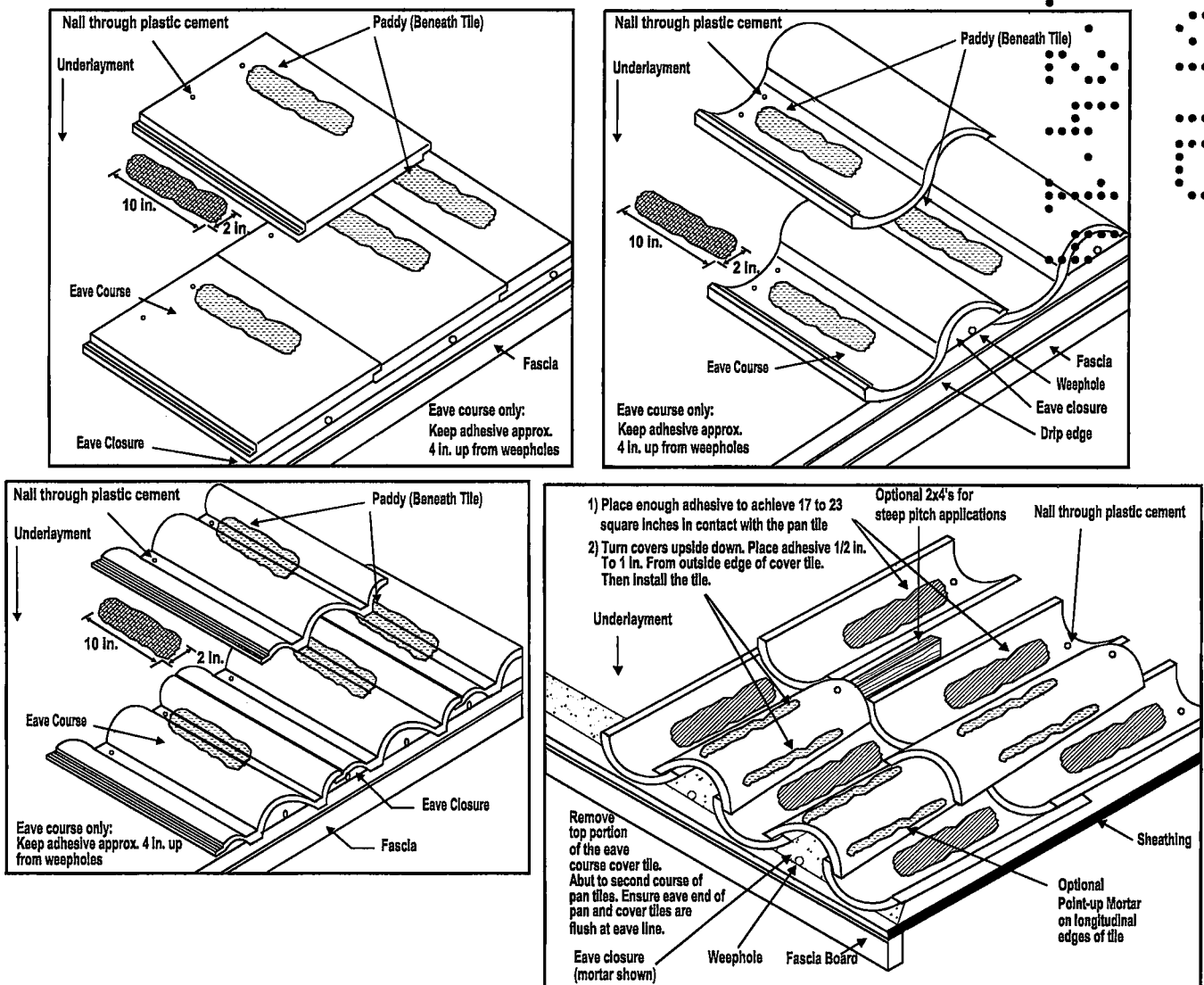
LABELING:

All 3M™ 2-Component Foam Roof Tile Adhesive AH-160 containers shall comply with the Standard Conditions listed herein.

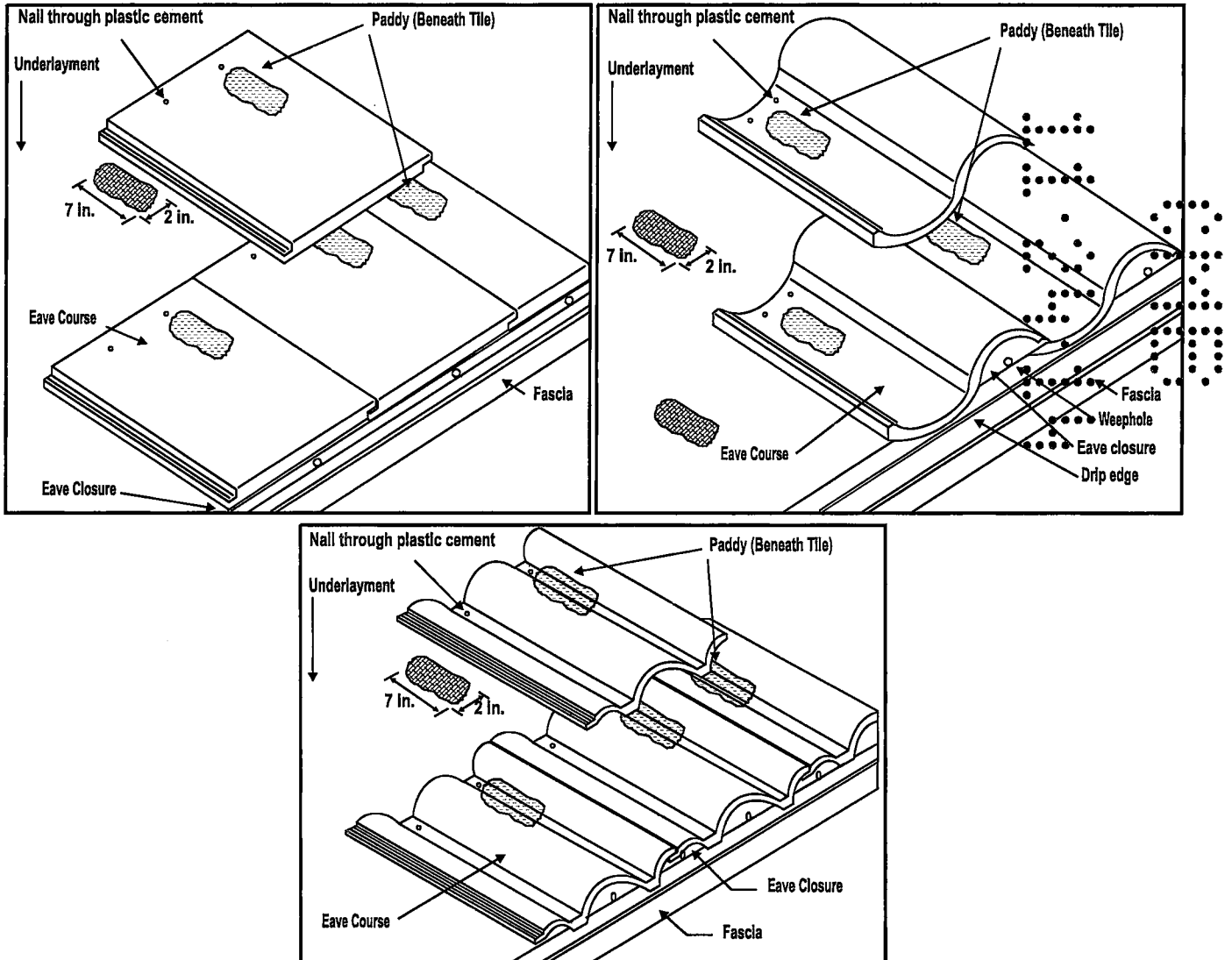
BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or applicable building code in order to properly evaluate the installation of this system.

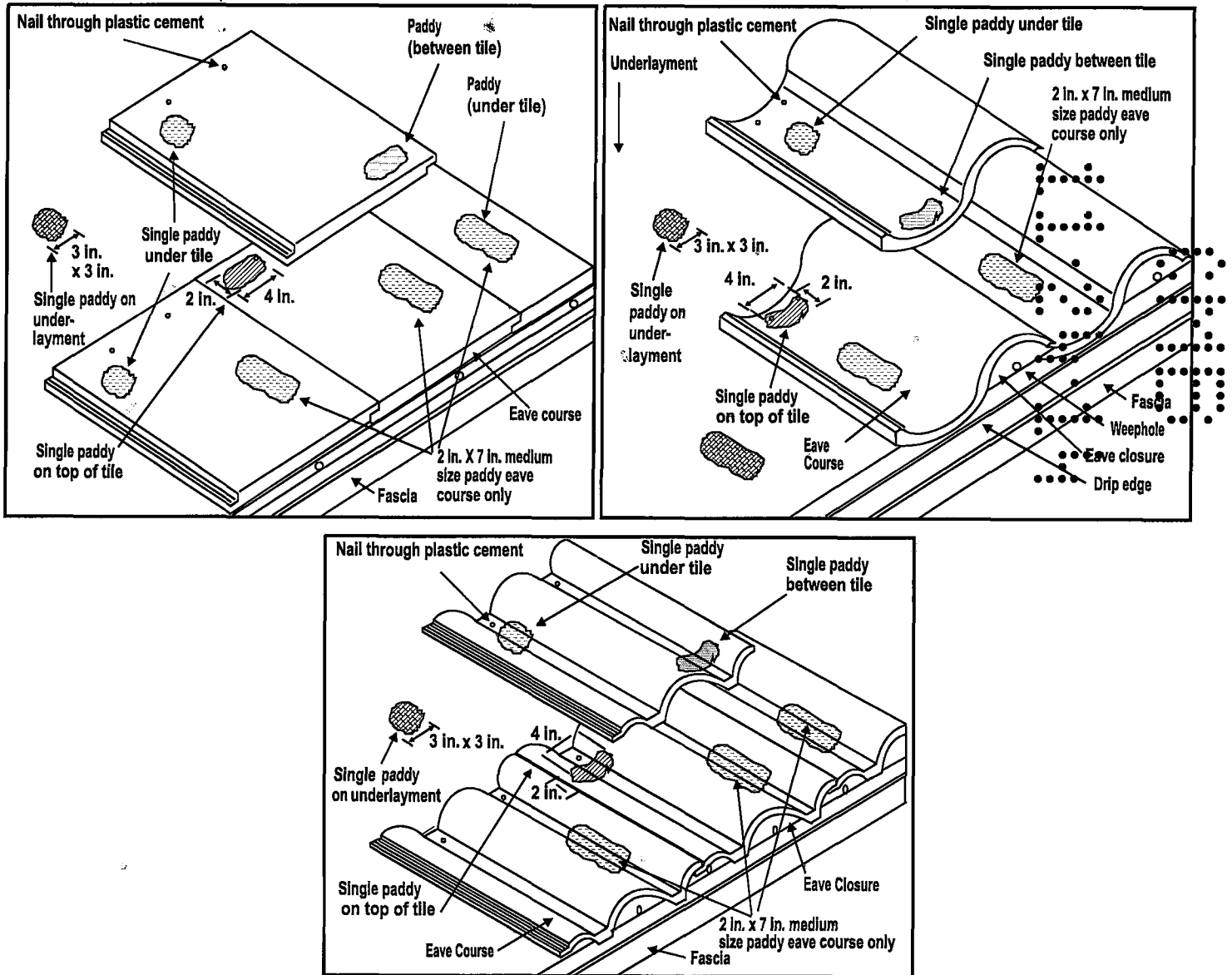
ADHESIVE PLACEMENT DETAIL 1 SINGLE PATTY



ADHESIVE PLACEMENT DETAIL 2 SINGLE PATTY



ADHESIVE PLACEMENT DETAIL 3 DOUBLE PATTY



END OF THIS ACCEPTANCE

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CITY OF MIAMI BEACH
Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139
Inspections: (305) 673-7370 Office: (305) 673-7610

Bldg Demolition Permit

03-05-2007

Activity Number: BD050156

Status: FINAL

Issued By: BUILWILR

Site Address: 15 E SAN MARINO DR MBCH

Applied: 06/10/2005

Parcel #: 32320030460

Approved: 06/21/2005

Completed:

To Expire: 12/18/2005

Valuation: \$8,000.00

Applicant: AMICON BUILDERS CORPORATION
3800 S OCEAN DRIVE SUITE 216
HOLLYWOOD 33019
954-458-7828

Property Owner: 15 E SAN MARINO LLC
790 NW 107 AVE #209
MIAMI FL 33172

Description: Demo part of pool deck, chain lnk, tennis court

Inspector Area: S

DETAIL LIST

Demolition Fees

Building Floor Area:	\$0.00
Other Fee:	\$0.00
SFBC Compliance Fee:	\$4.80
Training Fee:	\$0.00
Penalty Fee:	\$0.00

Additional Fees

1st Reinspection:	\$0.00
Continued Reinspections:	\$0.00
Change of Contractor:	\$0.00
Permit Extension:	\$0.00
Permit Card Replacements:	\$0.00
Overtime Inspection Fees:	<u>\$0.00</u>

Total of All Fees:	\$549.30
Total of Payments:	\$549.30
Balance Due:	<u>\$0.00</u>

CITY OF MIAMI BEACH
Miami Beach, Florida 33139

RECEIPT OF PAYMENT

(This is not a permit it is a receipt only)

06-10-2005

Receipt:

Activity Number: BD050156
Status: APPLIED

Date Applied: 06/10/2005
Date Completed:

Date Issued:
Date Expired:

Entered By: BUILWILR

Site Address: 15 E SAN MARINO DR MBCH
Parcel #: 32320030460

Balance Due: \$549.30
Valuation: \$8,000.00

Applicant: AMICON BUILDERS CORPORATION Owner: 15 E SAN MARINO LLC
3800 S OCEAN DRIVE SUITE 216 790 NW 107 AVE #209
HOLLYWOOD 33019 MIAMI FL 33172
954-458-7828

Description: Demo part of pool deck, chain lnk, tennis court

Payments made for this receipt:

Type	Method	Description	Amount
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Payment Made:	Accepted By:
---------------	--------------

Total Payment: .00	Payee:
--------------------	--------

Current Payment Made to the Following Items:

Account Summary for Fees and Payments:

Item#	Description	Account Code	Tot Fee	Paid	Prev. Pmts	Cur. Pmts
80	Demolition	0118000322110	512.50	.00	.00	.00
420	SFBC Compliance Fee	6017000229217	4.80	.00	.00	.00
430	Training	6017000229253	8.00	.00	.00	.00
440	Sanitation Impact Fe	4358000363293	24.00	.00	.00	.00

WORK PERMIT APPLICATION

(PLEASE FILL OUT COMPLETELY)

DATE: 6/1/05

CODE IN EFFECT: BDO50156
FLORIDA BUILDING CODE

IF SUBSIDIARY OR REVISION PROVIDE THE MASTER BUILDING PERMIT NUMBER HERE:

B

LOCATION OF IMPROVEMENTS	CONTRACTOR INFORMATION
JOB ADDRESS: <u>15 E SAN MARINO DR</u>	LICENSE #: <u>CAC1304283</u>
FOLIO NUMBER: _____	SS #: <u>230 026818</u>
LOT: <u>2</u>	COMPANY: <u>AMICON BUILDERS CORP</u>
BLOCK: <u>4</u>	QUALIFIER: <u>John Wood</u>
SUBDIVISION: <u>SAN MARINO</u>	ADDRESS: <u>3800 S. OCEAN DRIVE</u>
P. B. PAGE: _____	CITY/STATE/ZIP: <u>HOLLYWOOD, FL 33019</u>
YEAR BUILT: <u>1972</u>	PHONE #: <u>954 4587828</u>

TYPE OF IMPROVEMENTS

DESCRIPTION OF WORK: DEMOLITION OF PART OF POOL DECK, CHAIN LINK, TENNIS COURT
VALUE OF WORK: \$ 8,000.00 NO BLDGS.: _____ NO OF UNITS: _____ NO OF FLOORS: _____
SQUARE FEET: 300 LINEAL FEET: _____ POOL GALLONAGE: _____

☐ NEW CONSTRUCTION ON VACANT LAND	☐ FOUNDATION ONLY	☐ SHELL ONLY	☐ SIGNS
☐ ALTERATION INTERIOR	☐ ENCLOSURE	☐ ADDITION ATTACHED	☐ SWIMMING POOL/SPA
☐ ALTERATION EXTERIOR	☐ REPAIR	☐ ADDITION DETACHED	☐ HURRICANE SHUTTERS
☐ STRUCTURE RELOCATION	☐ REPAIR DUE TO FIRE	☐ AWNING/CANOPIES	☐ WINDOWS/SLIDING DOORS
	☒ DEMOLISH	☐ FENCING	

ROOFING

☐ (92) LOW SLOPE APPLICATION (GRAVEL, SMOOTH MODIFIED, SINGLE PLY)	SQUARE FEET: _____
☐ (95) SHINGLES (ASPHALT, FIBERGLASS)	☐ SINGLE FAMILY
☐ (96) SHINGLES (METAL ROOFS/WOOD SHINGLES & SHAKE)	☐ MULTI-FAMILY
☐ (0107) TILE ROOF	☐ COMMERCIAL
☐ LIGHT WEIGHT	

PERMIT TYPE

☒ BUILDING ☐ MECHANICAL
☐ ELECTRICAL ☐ PLUMBING
☐ FIRE

CHANGE TO EXISTING

☐ CHANGE CONTRACTOR ☐ PERMIT UPGRADE
☐ REVISIONS ☐ SUPPLEMENTAL

OWNER'S INFORMATION

NAME: 1521 SAN MARINO LLC
ADDRESS: 3929 Ponce De Leon Blvd
CITY/STATE/ZIP: Coral Gables FL 33134
PHONE NUMBER: 305 443 2322

MORTGAGE LENDER'S INFORMATION

NAME: _____
ADDRESS: _____
CITY/STATE/ZIP: _____
PHONE NUMBER: _____

ARCHITECT'S INFORMATION

NAME: _____
ADDRESS: _____
CITY/STATE/ZIP: _____
PHONE NUMBER: _____
LICENSE #: _____

ENGINEER'S INFORMATION

NAME: _____
ADDRESS: _____
CITY/STATE/ZIP: _____
PHONE NUMBER: _____
LICENSE #: _____

CITY OF MIAMI BEACH
BUILDING DEPARTMENT
1700 CONVENTION CENTER DR
MIAMI BEACH, FL 33139

305-673-7610 OFFICE

305-673-7857 FAX

OCCUPANCY CLASSIFICATIONS

ASSEMBLY OCC. - GROUP A1 GREATER THAN 1,000

ASSEMBLY OCC. - GROUP A2 50 TO 1,000

BUSINESS OCC. - GROUP B

DAY CARE OCC. - GROUP D

EDUCATIONAL OCC. - GROUP E

FACTORY OCC. - GROUP F

HAZARDOUS OCC. - GROUP H1 EXPLOSIVE

HAZARDOUS OCC. - GROUP H2 BURNING

HAZARDOUS OCC. - GROUP H3 PHYSICAL

HAZARDOUS OCC. - GROUP H4 HEALTH

INSTITUTIONAL OCC. - GROUP I UNRESTRICTED

INSTITUTIONAL OCC. - GROUP I RESTRICTED

MERCANTILE OCC. - GROUP M

RESIDENTIAL OCC. - GROUP R1 HOTEL/MOTEL

RESIDENTIAL OCC. - GROUP R2 APTS/CONDO

RESIDENTIAL OCC. - GROUP R3 S/F

RESIDENTIAL OCC. - GROUP R4 CARE FACILITIES

STORAGE OCC. - GROUP S1 ORDINARY HAZARD

STORAGE OCC. - GROUP S2 LOW HAZARD

Application is hereby made to obtain a permit to do work and installation as indicated. I certify that all work will be performed to meet the standards of all laws regulation construction in this jurisdiction. I understand that **SEPARATE PERMITS ARE REQUIRED** for **Electrical, Mechanical, Plumbing, Signs, Swimming Pools and Spas, Windows and Sliding Glass Doors and Roofing**. As per Florida Building Code 104.4.1.4:

NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies.

SIGNATURE OF QUALIFIER ONLY

STATE OF FLORIDA

COUNTY OF DADE

Sworn to and subscribed before me this 1st day of JUNE, 2005, By:

JOHN WOOD

PLEASE PRINT QUALIFIER'S NAME

(X) Personally Known to me. () Procured Identification:

Type of Identification:

SELF

() DID TAKE OATH.

(X) DID NOT TAKE OATH



Adam J. Mueller
MY COMMISSION # DD250035 EXPIRES
September 15, 2007
FONDED THROUGH CARM INSURANCE, INC.

Signature of Notary Public

DATE: 6/1/05

OWNER'S AFFIDAVIT

ATTENTION: BUILDING OFFICIAL

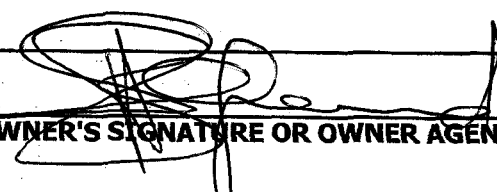
I, RUDOLPH LEGRAND certify that I am the owner of the property described as:

ADDRESS: 15 E SAN MARINO

LOT: 2 BLOCK: 4 SUBDIVISION: SAN MARINO

I authorize AMICON BUILDERS as my agent to obtain a building permit for the following work:

MINOR DEMO OF TENNIS COURT, DRIVEWAY, AND FENCE


OWNER'S SIGNATURE OR OWNER AGENT'S SIGNATURE

STATE OF FLORIDA

COUNTY OF DADE

Sworn to and subscribed before me this 1 day of JUNE 2005 by:

RODOLPHE LEGRAND YBA 15-21 San Marino LLC
PLEASE PRINT OWNER'S NAME OR OWNER AGENT'S NAME

☒ Personally Known to me. ☐ Produced Identification

Type of Identification: _____

☐ DID TAKE OATH ☐ DID NOT TAKE OATH



John Wood
MY COMMISSION # DD162498 EXPIRES
December 17, 2006
BONDED TRILITROY FAIN INSURANCE, INC.
SIGNATURE OF NOTARY PUBLIC

Notice of Commencement must be filed if the job valuation of \$ 2,500.00 and/or more in labor and material

Notice of Commencement must be posted prior to the job commencing.

**Notice of Commencement should be filed at:
22 NW 1st Street, Miami, Florida**

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

Q. What is the Construction Lien Law?

A. The new "Construction Lien Law" (Chapter 713, Florida Statute, as amended) is the current law which replaces the older Mechanics Lien Law. The Construction Lien is a method by which a contractor may claim a lien on real property which they have performed work or provided materials.

Q. Does the Construction Lien Law apply to me?

A. Yes! If

****** You own an interest in real property that is being improved.

****** You are employing someone other than yourself to supply materials and labor.

Q. When does the Construction Lien Law become effective?

A. Section 13 (conditional payment of bonds, certificates of payment, and notices of contest), Section 17 (misapplication of funds), and Section 29 (enacting paragraph) take effect on October 1, 1990. The other amendments are effective January 1, 1991. These amendments modify the existing Mechanics Lien Law.

Q. Why should I, as a future home builder, be concerned about the Construction Lien Law?

A. Because a failure to make proper construction payments can result in a lien filed which may result in your property being sold which may result in your property being sold to satisfy the debt.

Q. Can a Homeowner be compelled to pay two (2) times for the same work?

A. Yes! When the homeowner doesn't make sure the construction payments are proper, he/she can again be required to pay the unpaid laborer, material man, subcontractor, or sub-subcontractor to the extent of services rendered and not compensated.

Q. Who is affected by the Construction Lien Law?

A. (With few exceptions), Every person who is improving property in the State of Florida.

Q. As a homeowner, what steps can I take to protect myself?

A. Before you begin construction, file a Notice of Commencement with the Clerk of Circuit Court in the County where the work will be performed, and post a certified copy at the job site.

Before you make any payment on the job, make sure you receive a Final Release of Lien from your contractor covering the work performed.

Before final payment is made, make sure you receive a Final Release of Lien from your contractor covering all laborers, material suppliers, contractors, subcontractors and sub-subcontractors.

UNDER NO CIRCUMSTANCES SHOULD YOU MAKE PAYMENT WITHOUT RECEIVING A RELEASE OF LIEN ! ! ! ! !

State of Florida



Department of State

I certify the attached is a true and correct copy of the Articles of Organization of 15-21 SAN MARINO, LLC, a limited liability company organized under the laws of the state of Florida, filed on January 31, 2005, as shown by the records of this office.

The document number of this limited liability company is L05000009785.

Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capitol, this the
Thirty-first day of January, 2005



CR2EO22 (2-03)

Glenda E. Hood
Glenda E. Hood
Secretary of State

Articles Of Organization

Of

15-21 SAN MARINO, LLC

The undersigned, desiring to form a limited liability company under and pursuant to Florida Statutes Chapter 608, adopt the following Articles of Organization:

ARTICLE I.
NAME

The name of this limited liability company shall be 15-21 SAN MARINO, LLC.

ARTICLE II.
ADDRESS

The street address, mailing address and the principal place of business of this limited liability company shall be 3929 Ponce De Leon Boulevard, Coral Gables, Florida 33056.

ARTICLE III.
DURATION

This limited liability company shall have perpetual existence unless sooner dissolved as provided by law.

ARTICLE IV.
MANAGEMENT

The limited liability company shall be managed by its members.

ARTICLE V.
PURPOSE

FILED
05 JAN 31 PM 2:33
SECRETARY OF STATE
TALLAHASSEE, FLORIDA

This limited liability company is being formed for the purpose of engaging in any activities or business permitted for a limited liability company under the laws of the State of Florida.

**ARTICLE VI.
REGISTERED OFFICE AND REGISTERED AGENT**

The address of the registered office of this Limited Liability Company is, 3929 Ponce de Leon Boulevard, Coral Gables, Florida 33055, and the name of the initial registered agent located at that address shall be Rodolphe LeGrand.

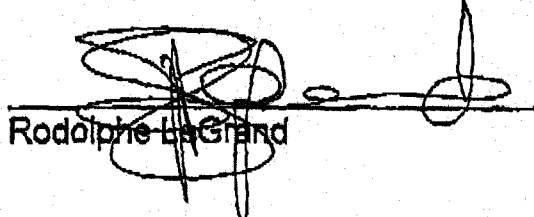
IN WITNESS WHEREOF, the undersigned has executed these Articles of Organization on January 31st, 2005


Rodolphe LeGrand, member

(In accordance with Section 608.408(3), Florida Statutes, the execution of this document constitutes an affirmation under the penalties of perjury that the facts stated herein are true.)

REGISTERED AGENT ACCEPTANCE

I hereby accept appointment to act as the initial registered agent for this Limited Liability Company, as stated in the Articles of Organization. I am familiar with the obligations of the position.


Rodolphe LeGrand



CFN 2005R0277503
OR Bk 23189 Pgs 2306 - 2307; (2pgs)
RECORDED 03/22/2005 11:13:43
DEED DOC TAX 32,220.00
HARVEY RUVIN, CLERK OF COURT
MIAMI-DADE COUNTY, FLORIDA

Prepared by and return to:
Mark D. Balzli, Esq.
President
Law Office of Mark D. Balzli, P.A.
1929 Sunset Harbour Drive
Miami Beach, FL 33139

File Number: MB05-0004
Will Call No.:

(Space Above This Line For Recording Data)

Warranty Deed

This Warranty Deed made this 16th day of March, 2005 between 15 East San Marino, LLC, Limited Liability Company whose post office address is 790 NW 107th Avenue # 209, Miami, FL 33172, grantor, and 15-21 San Marino, LLC, a Florida Limited Liability Company whose post office address is 15-21 East San Marino Dr., Miami Beach, FL 33139, grantee:

(Whenever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives, and assigns of individuals, and the successors and assigns of corporations, trusts and trustees)

Witnesseth, that said grantor, for and in consideration of the sum of TEN AND NO/100 DOLLARS (\$10.00) and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained, and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Miami-Dade County, Florida to-wit:

Lot 2, Block 4, of SAN MARINO, a Subdivision, according to the Plat thereof as recorded in Plat Book 9, Page 22, of the Public Records of Miami-Dade County, Florida, and

A five foot strip of land contiguous to the Southerly boundary of Lot 2, Block 4, of SAN MARINO, an island in Biscayne Bay, according to the Plat thereof, as recorded in Plat Book 9, Page 22, of the Public Records of Miami-Dade County, Florida, lying between the Southerly extensions of the Easterly boundary line and the Westerly boundary line of said Lot 2, Block 4, of SAN MARINO, together with any riparian rights and water privileges that may appertain thereto. Together with all improvements located thereon.

Parcel Identification Number: 02-3232-003-0460

and

Lot 3, of Block 4, of SAN MARINO, a Subdivision, according to the Plat thereof, as recorded in Plat Book 9, Page 22, of the Public Records of Miami-Dade County, Florida.

Parcel Identification Number: 02-3232-003-0470

Subject to taxes for 2005 and subsequent years; covenants, conditions, restrictions, easements, reservations and limitations of record, if any.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to

DoubleTimes

said land and will defend the same against the lawful claims of all persons whomsoever, and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2004.

In Witness Whereof, grantor has hereunto set grantor's hand and seal the day and year first above written.

Signed, sealed and delivered in our presence:

Maria Boy
Witness Name: MARIA BOY

JOSE L. PAGGI
Witness Name: JOSE L. PAGGI

15 East San Marino, LLC, Limited Liability Company

By: Francis Judson Laird, IV, Manager

(Corporate Seal)

State of Florida
County of Miami-Dade

The foregoing instrument was acknowledged before me this 16th day of March, 2005 by Francis Judson Laird, IV, Manager of 15 East San Marino, LLC, Limited Liability Company, on behalf of the corporation. He ☐ is personally known to me or ☒ has produced a driver's license as identification.

[Notary Seal]



Mark D Balzli
My Commission DD182853
Expires May 18, 2007

Mark D Balzli
Notary Public

Printed Name: MARK D. BALZLI

My Commission Expires: 5/18/07

CITY OF MIAMI BEACH
Miami Beach, Florida 33139

RECEIPT OF PAYMENT
(This is not a permit it is a receipt only)

06-21-2005

Receipt: R010129215

Activity Number: BD050156
Status: APPLIED

Date Applied: 06/10/2005
Date Completed:

Date Issued:
Date Expired:

Entered By: BUILWILR

Site Address: 15 E SAN MARINO DR MBCH
Parcel #: 32320030460

Balance Due: \$0.00
Valuation: \$8,000.00

Applicant: AMICON BUILDERS CORPORATION Owner: 15 E SAN MARINO LLC
3800 S OCEAN DRIVE SUITE 216 790 NW 107 AVE #209
HOLLYWOOD 33019 MIAMI FL 33172
954-458-7828

Description: Demo part of pool deck, chain lnk, tennis court

Payments made for this receipt:

Type	Method	Description	Amount
Payment	Check	2549	549.30
Payment Made:	06/21/2005	09:00 AM Accepted By:	RW
Total Payment:	549.30	Payee:	permit x

Current Payment Made to the Following Items:

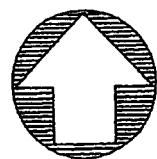
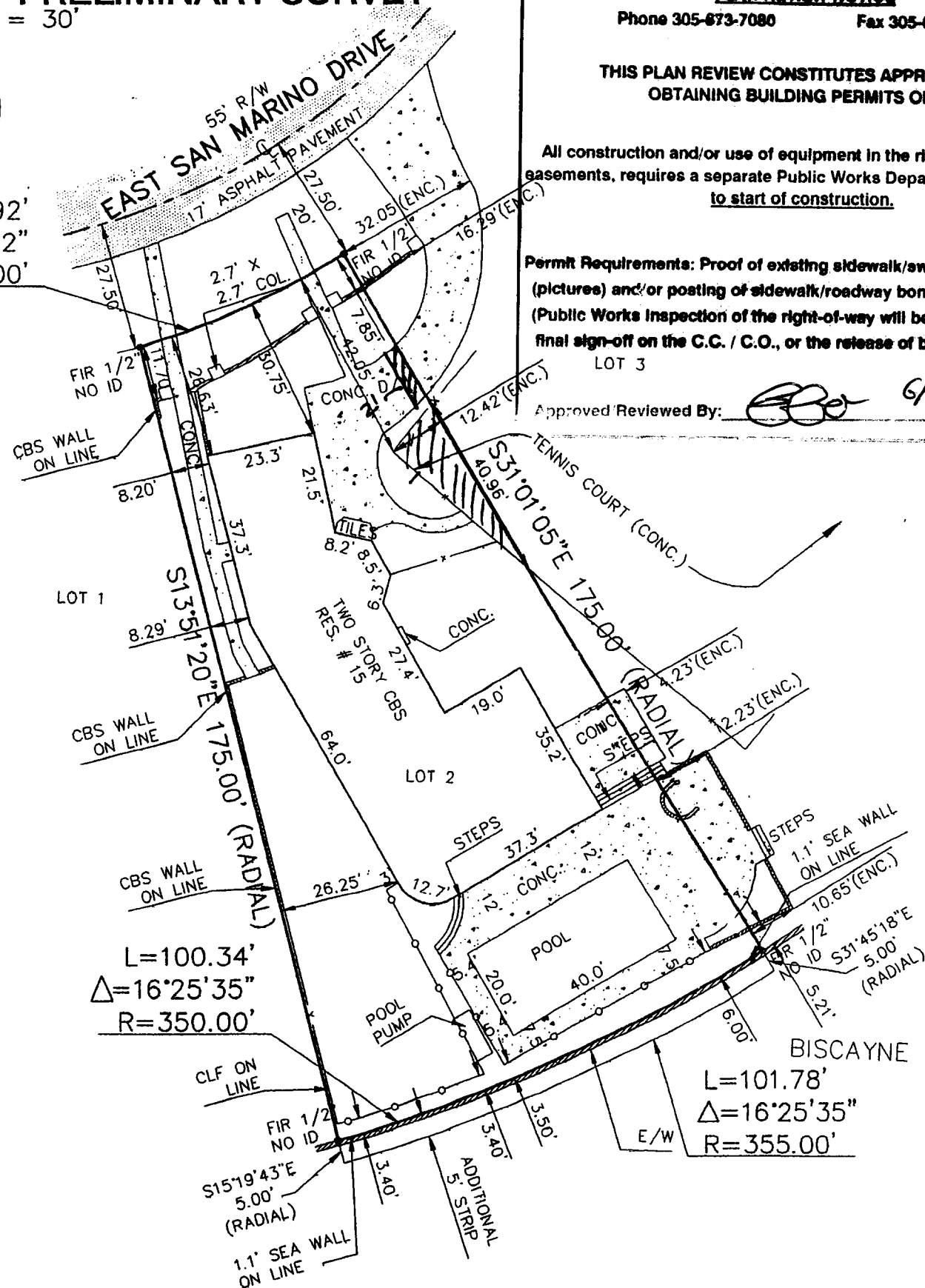
Account Code	Description	Amount
011800032211	Demolition	512.50
435800036329	Sanitation Impact Fees	24.00
601700022921	SFBC Compliance Fee	4.80
601700022925	Training	8.00

Account Summary for Fees and Payments:

Item#	Description	Account Code	Tot Fee	Paid	Prev. Pmts	Cur. Pmts
80	Demolition	0118000322110	512.50	512.50	.00	512.50
420	SFBC Compliance Fee	6017000229217	4.80	4.80	.00	4.80
430	Training	6017000229253	8.00	8.00	.00	8.00
440	Sanitation Impact Fe	4358000363293	24.00	24.00	.00	24.00

PAID
CITY OF MIAMI BEACH
BUILDING DEPARTMENT

SCALE: 1" = 30'


$$\begin{aligned} L &= 47.92' \\ \Delta &= 15^\circ 41' 22'' \\ R &= 175.00' \end{aligned}$$


Phone 305-673-7080 Fax 305-673-7020

**THIS PLAN REVIEW CONSTITUTES APPROVAL FOR
OBTAINING BUILDING PERMITS ONLY.**

All construction and/or use of equipment in the right-of-way and/or easements, requires a separate Public Works Department permit prior to start of construction.

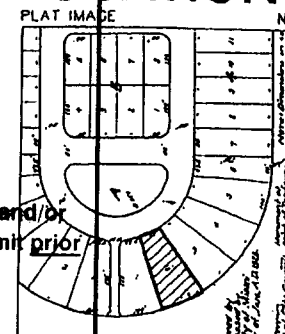
Permit Requirements: Proof of existing sidewalk/ewale area conditions (pictures) and/or posting of sidewalk/roadway bonds (Public Works Inspection of the right-of-way will be required prior to final sign-off on the C.C. / C.O., or the release of bonds.)

LOT 3

Approved/Reviewed By: Date: 9/9/20

PROPERTY ADDRESS:

15 E SAN MARINO DRIVE, MIAMI BEACH, FL 33139



48 HOURS PRIOR TO DECAVATION
CONTRACTOR SHALL CALL FOR LOCATION OF
UNDERGROUND UTILITIES

Sunshine One-Call 1-800-432-4770
City of Miami Beach 305-673-7000

LEGAL	DESCRIPTION:
-------	--------------

LOT 2, BLOCK 4, OF SAN MARINO, A SUBDIVISION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 9, PAGE 22, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA; AND A FIVE FOOT STRIP OF LAND CONTIGUOUS TO THE SOUTHERLY BOUNDARY OF LOT 2, BLOCK 4, OF SAN MARINO, AN ISLAND IN BISCAYNE BAY, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 9, PAGE 22, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA, LYING BETWEEN THE SOUTHERLY EXTENSIONS OF THE EASTERLY BOUNDARY LINE AND THE WESTERLY BOUNDARY LINE OF SAID LOT 2, BLOCK 4, OF SAN MARINO, TOGETHER WITH ANY RIPARIAN RIGHTS AND WATER PRIVILEGES THAT MAY APPERTAIN THERETO; TOGETHER WITH ALL IMPROVEMENTS LOCATED THEREON.

FLOOD ZONE INFORMATION:

BASED ON THE FLOOD INSURANCE RATE MAP OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY
REVISED ON 3/2/94 AND INDEX MAP REVISED ON 7/17/95 THE HEREIN DESCRIBED PROPERTY IS WITHIN
ZONE AE BASE FLOOD ELEVATION 10 COMMUNITY NAME & NUMBER UNINCORPORATED 120635 MAP &
PANEL NUMBER 12025C0276 SUFFIX J

LEGEND & SYMBOLS

A = ARC DISTANCE
A/C = AIR CONDITIONER PAD
BLDG = BUILDING
BM = BENCH MARK
CBS = CONCRETE BLOCK & STUCCO
(C) = CALCULATED
CB = CATCH BASIN
C&G = CURB & GUTTER
CLF = CHAIN LINK FENCE
COL = COLUMN
CONC = CONCRETE
DME = DRAINAGE & MAINTENANCE EASEMENT

D/W = DRIVE-WAY
EP = EDGE OF PAVEMENT
FDH = FOUND DRILL HOLE
FH = FIRE HYDRANT
PCP = PERMANENT CONTROL POINT
FIP = FOUND IRON PIPE
FIR = FOUND IRON ROD
FND = FOUND NAIL (NO ID)
FND = FOUND NAIL & DISK
O/U = OVERHEAD FILE
LP = LIGHT POLE
(M) = MEASURED
MH = MAN HOLE

(P) = PLAT
PC = POINT OF CURVATURE
PI = POINT OF INTERSECTION
PL = PLANTER
PB = POINT OF BEGINNING
FO = FIRST COMMENT
PM = PERMANENT REFERENCE
PT = POINT OF TANGENCY
SH = SHOOTING
R = RECORD
RW = RIGHT OF WAY
B = BOUNDARY

SND = SET NAIL & DISK
SWK = SIDEWALK
(TYP) = TYPICAL
UB = UTILITY BOX
UE = UTILITY EASEMENT
UTP = UTILITY POLE
WM = WATER METER
Δ = CENTRAL ANGLE
V = MONUMENT LINE
C = CENTER LINE
MOD = BEARING, DIST. DISTANCE
* = CHAIN LINK FENCE
F = FENCE
FENCE = FENCE

(ENK) = ENCROACHMENT
SURVEYOR'S NOTES:

1. ELEVATIONS WHEN SHOWN REFER TO NATIONAL GEODETIC VERTICAL DATUM (NGVD). 2. NO ATTEMPT WAS MADE TO LOCATE FOOTINGS/FOUNDATIONS UNLESS OTHERWISE NOTED. 3. THE LANDS SHOWN HEREON HAVE NOT BEEN ABSTRACTED IN REGARDS TO MATTERS OF INTEREST BY OTHER PARTIES. 4. EASEMENTS, RIGHTS OF WAY, RESERVATIONS, ETC. ONLY PLATTED EASEMENTS ARE SHOWN. 5. THIS SURVEY WAS PREPARED FOR AND CERTIFIED TO THE PARTY(IES) INDICATED HEREON AND IS NOT TRANSFERABLE OR ASSIGNABLE. 6. TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE INFORMATION CONTAINED HEREON IS TRUE AND CORRECT. 7. THIS SURVEY IS COMMUNICATED BY THE CERTIFIED PARTIES IS FOR REAL-ESTATE TRANSACTION OR MORTGAGE REFINANCING. THIS SURVEY IS NOT TO BE USED FOR ANY OTHER PURPOSE OR PARTY(IES) WITHOUT THE AUTHORIZATION OF THE SURVEYOR. 8. THIS SURVEY IS NOT INTENDED FOR NEITHER DESIGN NOR CONSTRUCTION PURPOSES, FOR THOSE PURPOSES A TOPOGRAPHIC SURVEY IS REQUIRED. 9. MY BOUNDARY LINE INDICATORS ARE STAMPED LB# 7104. 10. THE BOUNDARY LINES SHOWN ON THIS SURVEY ARE BASED ON A LEGAL DESCRIPTION PROVIDED BY CLIENT OR ITS REPRESENTATIVE. 11. BEARINGS WHEN SHOWN ARE TO AN ASSUMED MERIDIAN AND THE EAST END OF LOT 2 HAS BEEN ASSIGNED A BEARING OF 100° 00' 00" E. 12. THE SURVEYOR'S NAME AND FIRM ARE TO BE PRINTED IN THE FOLLOWING:

BUILDING:
ZONING:
DRB/HPB:
CONCURRENCY:
PLUMBING:
ELECTRICAL:
SANITARY:

ADDITIONAL NOTES: PROPERTY HAS ACCESS TO PUBLIC RIGHT-OF-WAYS; ENCROACHMENTS AS NOTED ON MAP OR SURVEY.

SURVEYOR'S CERTIFICATE:

I HEREBY CERTIFY THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AS RECENTLY SURVEYED AND DRAWN UNDER MY DIRECTION IN ACCORDANCE WITH THE TECHNICAL STANDARDS SET FORTH BY THE FLORIDA STATE BOARD OF SURVEYORS AND MAPPERS IN CHAPTER 61G17-6 FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATUTE.

AUTHENTIC COPIES OF THIS
SURVEY SHALL BEAR THE
RAISED SEAL OF THE
ATTESTING REGISTERED
SURVEYOR AND MAPPER

FIRE PREVENTION
TRUE AND CORRECT TO THE BEST OF
STRUCTURAL AND ELECTRICAL ENGINEERING TECHNICIANS
PERSONS IN CHAPTER 61G17-5, FLORIDA ADMINISTRATION CODE
PUBLIC WORKS:
STRUCTURAL:
ACCESSIBILITY:
ELEVATOR:

As per Florida Building Code Section 104.5.3
 REVIEWED FOR CODE COMPLIANCE

[illegible]

6745
 2005
 CERTIFIED TO
 BC PROPERTY INVESTMENTS, L.C.
 ATTORNEY'S TITLE INSURANCE FUND, INC.
 BALZLI AND ASSOCIATES
 WEISBURD, EISEN & POSSENTI, P.A.
 COMMERCIAL BANK OF FLORIDA

suarez surveying & mapping, inc.
10691 N. Kendall Dr., Suite 300, Miami, Florida 33176
Tel: 305.596.1799 Fax: 305.596.1886
url: www.suarezland.com

DATE: 11/24/04
JOB # 04114821
CAD: J/BC
FILE # C-3628
F.B.D P.G. D
SHEET 1 OF 1

PERMIT #	COMP_TYPE	SUB_TYPE	APPLIED	APPROVED	EXPIRED	STATUS
BD050156	BDEMOPRJ	PARTIAL	10-Jun-05	21-Jun-05	18-Dec-05	FINAL
BM980047	BMECH	ALT	13-Oct-97	13-Oct-97	27-Jul-98	FINAL
BMS0502455	BMISC	RESEARCH	21-Mar-05			CLOSED
BMS0700903	BMISC	REVISE	20-Dec-06	12-Mar-07	08-Sep-07	FINAL
BMS0800919	BMISC	DOC HIST	17-Jan-08			CLOSED
B0201907	BSBUILD	FENCE	22-Feb-02	25-Feb-02	08-Oct-02	FINAL
B0706429	BSBUILD	DRWNW-R	24-Aug-07	24-Aug-07	03-Sep-08	FINAL
BS910176	BSBUILD	OTH	24-Oct-90	24-Oct-90	22-Apr-91	CLOSED
B0001980	BSBUILD		01-Mar-00	14-Mar-00	18-Oct-00	FINAL
B1501138	BSBUILD	ROOFING	25-Nov-14	09-Dec-14	26-Aug-15	FINAL
B0606020	BSBUILD	ROOFING	17-Aug-06	01-Sep-06	28-Feb-07	CLOSED
B0804265	BSBUILD	PAVING	15-Jul-08	15-Jul-08	14-Jan-09	FINAL
B0703847	BSBUILD	MRNE-R	19-Apr-07	09-Aug-07	30-Mar-08	FINAL
B0703025	BSBUILD	ROOFING	08-Mar-07	08-Mar-07	02-Oct-07	FINAL
B0802557	BSBUILD	POOL-R	31-Mar-08	31-Mar-08	14-Apr-09	FINAL
B0506036	BSBUILD	FENCE-R	15-Aug-05	29-Aug-05	25-Feb-06	FINAL
B1003138	BUILD	MRNE	20-May-10	12-Nov-10	11-May-11	VOID
B1304584	BUILD	ALTRMD-R	06-Jun-13	06-Jun-13	03-Dec-13	FINAL
BV06000892	BVIO	STRUCT	05-Jul-06	05-Jul-06	20-Apr-07	CLOSED

DESCRIPTION
Demo part of pool deck, chain link, tennis court 300sf
REPL 5T SYS SHTT
property research
REV. TO B0703025/ REVISION FOR PROPER HIGHT
60 copies
ALUMINUM PICKET RAILING AND REMOVE EXISTING CHAIN LINK FENCE. 168 L. FT.
REPLACE 66 WINDOWS & 8 DOORS. ALL IMPACT
REPAIR LEAK IN ROOF 50 SQUARE FEET
PSI STAMP CRETE DRIVEWAY & WALKWAY & APPROACH.
Re-roof 1,900 s.f of tileroof (first floor only)
TO CORRECT OPEN VIOLATION # BV0600892/ RE ROOF TILE TO TILE 4,000 SFT
CONC. PAVER DRIVEWAY SFR
CONCRETE SEAWALL AND TIMBER BOAT DOCK RECONSTRUCTION.
TO RENEWL B06060206/TO CORRECT OPEN VIOLATION # BV0600892/ RE ROOF TILE TO TILE 4,000 SFT
POOL RESURFACING
INSTALL 160 LFT OF CHAIN LINK FENCE & 26/2 LFT OF ALUMINIUM FENCE.
NEW MOORING PILE AND FVP
Guinite Repair under house to grade beams-rib joist and soffit slab.
NOV / SWO ISSUED FOR ROOF REPAIR AND NEW TIN CAP INSTALLED W/O AN APPROVED PERMIT, NEED TO SUBMIT THE REQUIRED DOC. AND OBTAIN PERMIT, DOUBLE FEE + \$100.00 FINE ISSUED

[illegible]

CITY OF MIAMI BEACH
Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139
Inspections: (305) 673-7370 Office: (305) 673-7610

Miscellaneous Receipt

03-12-2007

Activity Number: BMS0700903

Status: APPROVED

Issued By: BUILSANK

Site Address: 15 E SAN MARINO DR MBCH
Parcel #: 32320030460

Applied: 12/20/2006
Approved: 03/12/2007

Valuation: \$0.00

Applicant: RO-LE-BE CONSTRUCTION

Property Owner: 15 E SAN MARINO LLC
790 NW 107 AVE #209
MIAMI FL 331723158

Description: REV. TO B0703025/ REVISION FOR PROPER HIGHT
Inspector Area: S Class Code:

Fees Summary

Total of All Fees:	\$160.00
Total of Payments:	\$160.00
Balance Due:	\$0.00

CITY OF MIAMI BEACH
Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139

Inspections: (305) 673-7370

Office: (305) 673-7610

Bldg Misc Fees

03-09-2007

Activity Number: BMS0700903

Status: APPLIED

Issued By: BUILSANK

Site Address: 15 E SAN MARINO DR MBCH
Parcel #: 32320030460

Applied: 12/20/2006
Approved:

Valuation: \$0.00

Applicant: RO-LE-BE CONSTRUCTION

Property Owner: 15 E SAN MARINO LLC
790 NW 107 AVE #209
MIAMI FL 331723158

Description: REV. TO B0703025/ REVISION FOR PROPER HIGHT
Inspector Area: S Class Code:

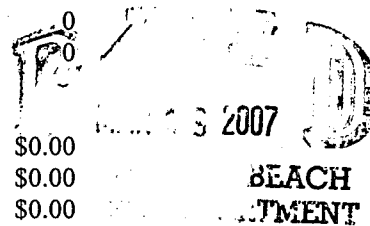
DETAIL LIST

Miscellaneous Fees

Microfilm Copies - Per # of:	0	\$0.00
Photostatic Copies - Per # of:	0	\$0.00
Fax Transmittal Pages - Per # of:	0	\$0.00
Special Project Fee:		\$0.00
Occupant Content Certificate - Per # of:	0	\$0.00
Builders Bond:		\$0.00
Certified Copies - Per # of:	0	\$0.00
Flood Zone Determination - Per # of:		\$0.00

NSF Check Amounts & Charges

Building Work Permit:	\$0.00	\$0.00
Electrical Work Permit:	\$0.00	\$0.00
Mechanical Work Permit:	\$0.00	\$0.00
Plumbing Work:	\$0.00	\$0.00
Demolition Work Permit:	\$0.00	\$0.00
Certificate of Completion:	\$0.00	\$0.00
Certificate of Occupancy:	\$0.00	\$0.00
Recertification:	\$0.00	\$0.00
Microfilm:	\$0.00	\$0.00
Photostatic Copies:	\$0.00	\$0.00
Miscellaneous Fees:	\$0.00	\$0.00
Bonds:	\$0.00	\$0.00
Fire Safety Fees:	\$0.00	\$0.00
Marine Structures:	\$0.00	\$0.00
Elevator/Escalator Fees:	\$0.00	\$0.00



Conversion Letters

Zoning Conversion Letter - Per # of:	0	\$0.00
Buildig Conversion Letter - Per # of:	0	\$0.00

Elevator Re-inspection Fees:

Elevator 1st Reinspection - Per Inspection:	0	\$0.00
Elevator Subsequent Inspection - Per Inspection:	0	\$0.00
Elevator - Other Fees:		\$0.00
Elevator - Explain Other Fees:		

Total of All Fees:		\$160.00
Total of Payments:		\$160.00
Balance Due:		\$0.00

CITY OF MIAMI BEACH
BUILDING DEPARTMENT
1700 CONVENTION CENTER DR
2ND FLOOR - CITY HALL
MIAMI BEACH, FLORIDA 33139
(305) 673-7610

COMPLETE DESCRIPTION

DATE: 03-09-2007

PERMIT NUMBER: **BMS0700903**

STATUS: APPLIED

JOB SITE ADDRESS: **15 E SAN MARINO DR MBCH**

CONTRACTOR: RO-LE-BE CONSTRUCTION

OWNER: 15 E SAN MARINO LLC

DESCRIPTION

REV. TO B0703025/ REVISION FOR PROPER HIGHT

CITY OF MIAMI BEACH
Miami Beach, Florida 33139

RECEIPT OF PAYMENT

(This is not a permit it is a receipt only)

03-09-2007

Receipt: R010185871

Activity Number: BMS0700903

Status: APPLIED

Date Applied: 12/20/2006
Date Completed:

Date Issued:
Date Expired:

Entered By: BUILSANK

Site Address: 15 E SAN MARINO DR MBCH
Parcel #: 32320030460

Balance Due: \$0.00
Valuation: \$0.00

Applicant: RO-LE-BE CONSTRUCTION

Owner: 15 E SAN MARINO LLC
790 NW 107 AVE #209
MIAMI FL 331723158

Description: REV. TO B0703025/ REVISION FOR PROPER HIGHT

Payments made for this receipt:

Type	Method	Description	Amount
Payment	Credit C VISA	4427 3225 1100 8729	160.00
Payment Made:	03/09/2007	02:36 PM Accepted By:	YC

Total Payment: 160.00 Payee: NICK NEDDEFF

Current Payment Made to the Following Items:

Account Code	Description	Amount
011800032210	Building Permits	160.00

Account Summary for Fees and Payments:

Item#	Description	Account Code	Tot Fee	Paid	Prev. Pmts	Cur. Pmts
10	Building Permits	0118000322100	160.00	160.00	.00	160.00



MIAMIBEACH

BUILDING DEPARTMENT

1700 Convention Center Drive

Miami Beach, FL 33139.

Office: 305-673-7610 Fax: 305-673-7857

WORK PERMIT APPLICATION

FLORIDA BUILDING CODE IN EFFECT

DATE 3/7/07

PERMIT #

~~00000000~~ B0703025

If subsidiary or revision, provide the Master building permit number here B: ~~00000000~~ B0703025

IS THIS PERMIT ASSOCIATED WITH A VIOLATION? If so; BV#

For DEMOLITION provide the year the structure was built

Historic District ☐ Yes ☐ No

Type of Property ☒ Single Family ☐ Commercial ☐ Multi-Family/Condo

TYPE OF IMPROVEMENT: ☒ Building ☐ Electrical ☐ Plumbing ☐ Mechanical

☒ REVISION

Describe PROPER HEIGHT

Estimated Job Value \$ 20,000 Square Feet 4300 Linear Feet _____ Pool Gallage _____

Job Address 15 E. San Marino

Folio # _____

Unit # _____

City Miami Beach

State FL

Zip _____

Phone _____

Owner/Owner Builder 15-21 San Marino LLC Drivers License No. _____

Address 15 E. San Marino

City Miami Beach

State FL

Zip _____

Phone 786-286-2386

Fee Simple Titleholder's Name (if other than owner) _____

Address _____

City _____

State _____

Zip _____

Phone _____

Contractor Ro-Lo-Be Construction

License No. CC # 15099081

Address 1779 NW. 93 St.

City Miami

State FL

Zip 33147

Phone _____

Cell# 561-305-0219

Fax # _____

☐ Architect _____

License No. _____

Address _____

City _____

State _____

Zip _____

Phone _____

☐ Engineer _____

License No. _____

Address _____

City _____

State _____

Zip _____

Phone _____

Bonding company Name

Address

City

State

Zip

Phone

Mortgage Lender's Name

Address

City

State

Zip

Phone

This application is hereby made to obtain a permit to do the work and installations as indicated. I certify that all work will be performed to meet the standards of all laws and construction regulations in this jurisdiction. I understand that **SEPARATE PERMITS** are required for *Electrical, Mechanical, Plumbing, Signs, Swimming Pools, Spas, Windows, Sliding Glass Doors and Roofing*.

OWNER'S AFFIDAVIT & HOLD HARMLESS STATEMENT: I certify that all the foregoing information is accurate and that all work will be done in compliance with all applicable laws regulating construction and Zoning. I agree to hold the City of Miami Beach harmless and indemnify it and relieve it from any responsibility for any legal action or damage in the issuance of this permit. I further assume responsibility for the construction or repair work performed under the requested permit. ******If this application is being signed by the owner's agent, the owner's agent must provide a power of attorney along with the owner's affidavit.**

STATE OF FLORIDA

COUNTY OF DADE

Print Owner's Name

Owner's Signature

Sworn to and subscribed before me this _____ day of _____

20_____, by: _____

() Personally Known () Produced Identification - Type of Identification _____

Signature of Notary Public

(Seal)

NOTICE: In addition to the requirements of this permit, there may be additional restrictions applicable to this property that may be found in the public records of this county, and there may be additional permits required from other governmental entities such as water management districts, state agencies or federal agencies.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. NOTICE OF COMMENCEMENT SHOULD BE FILED AT: 22 NW 1ST STREET, MIAMI, FL

Rudolph Legrand
Signature of Owner or Agent

RUDOLPH LEGRAND
Printed Name of Owner or Agent

Ronald L. Bethel
Signature of Qualifier

RONALD L. BETHEL
Printed Name of Qualifier

(☒) Personally Known () Produced Identification - Type of Identification _____

Date

3/5/07

NOTARY PUBLIC-STATE OF FLORIDA

Jenica Joseph

Commission # DD541610

Expires: APR. 18, 2010

Bonded Thru Atlantic Bonding Co., Inc.

(Seal)

Date

3/5/07

NOTARY PUBLIC-STATE OF FLORIDA

Jenica Joseph

Commission # DD541610

Expires: APR. 18, 2010

Bonded Thru Atlantic Bonding Co., Inc.

(Seal)

PLEASE COMPLETE SHADED AREAS

Application Approved By: _____

Permit Clerk

*See Venetian Islands Improvement Ass'n letter dated June 14, 1938, in Survey File.

spot survey ns 7/8/55

P.S. ISAACS

Owner OTTO J. COHEN

Lot 2 + 3 Block 4

General Contractor P. J. Davis

Architect David T. Ellis

Zoning Regulations: Use RD

Building Size: Front 47'

Certificate of Occupancy No.

Type of Construction CBS

Subdivision SAN MARINO ISLAND

9746

Area 20

Depth 73'

Permit No. 11290

Cost \$24,500: See Over

Address 15 East San Marino Drive

Bond No. 1837

Engineer

Lot Size 47'5 x 100' (pie shaped)

Height 22'

Stories 2

Use RESIDENCE & GARAGE: SWIMMING POOL & DOCK

Concrete Piling

Roof Tile

Date June 24, 1938

PLUMBING Contractor #11148 A. E. Christen

Sewer Connection

Date

14 Fixtures:

Temporary Water Closet 1 --- July 20, 1938

Water Closets

Lavatories

Bath Tubs

Showers

Urinals

Sinks

Dish Washing Machine

Laundry Trays

Laundry Washing Machines

Drinking Fountains

Floor Drains

Grease Traps

Safe Wastes

Swimming Pool Traps

Steam or Hot Water Boilers

ROUGH APPROVAL

FINAL APPROVAL

Down Spouts

Wells

GAS Contractor

Gas Ranges

Gas Water Heaters

--- Gas Space Heaters --- 2

Gas Refrigerators

Gas Steam Tables

Gas Broilers

Date

Gas Frylators

Gas Pressing Machine

Gas Vents for Stove

GAS Rough APPROVAL

GAS FINAL APPROVAL

J.J. Farrey - July 19, 1938

AIR CONDITIONING Contractor

SEPTIC TANK Contractor (Christen)

OIL BURNER Contractor

SPRINKLER Contractor

One - 650 gallons - Miami Concrete Products - October 6, 1938

#33442-Acme Septic Tank Co: Relay 125' drain field: 6/6/1952

ELECTRICAL Contractor #11148 B & W Electric

Date July 25, 1938

OUTLETS Switches 20 Ranges 1
Lights 22 Irons 1
Receptacles 25 Refrigerators 1

Temporary Service

Neon Transformers

Sign Outlets

Meter Change

Centers of Distributions 1,

Service

Violations

#12178- Ast -Dec. 20, '38 Motors 2
HEATERS Water -- 1, Appliances
Space

FIXTURES 24 -----

Electrical Contractor #11842 B & W Elec. Date Nov. 21, '38

#11842 B & W Electric:

9 Light outlets, 13 Fixtures, 3 Space heaters,

2 centers, November 28, 1938

24 11/48 M. B. T.

FINAL APPROVAL

By H.C. Inman

Date

See Over ---

Alterations or Repairs --- Over

ALTERATIONS & ADDITIONS

Building Permits: #12787 Remodeling porch into room: P.J. Davis, contractor: \$ 2,500: Aug. 7, 1939
David Ellis, architect:

#16278 Concrete slab between swimming pool & residence and enclosing roof over existing porch: P.J. Davis, contractor: \$ 800: Oct. 13, 1941
Kittle & McNeil, architects:

#20967 Waterproofing: Insul-Mastic Laboratories, contractor: \$ 717: May 19, 1949

Isaacs #30711 New addition to pool deck: Shinn Construction Company \$ 3,200: Sept. 8, 1949

Wahl Snyder, architect: Jorgensen, engineer: concrete piling:
48582 ADDITION OF PATIO, WALL AND ADDITION OF TWO ROOMS: on piling and tile roof:

H. Maxwell Parish, architect: Gunn and Gunn, contractor \$ 20,000 Sept. 12, 195

#52327 Esbary Foundation Co.: Repair of Dock: \$950.00: December 18, 1956

#53372 C.E. Morgan: 2-1 ton window air conditioners-\$400.00- May 24, 1957 OK 6/20/57 Plaag
#53839 Sam L. Hamilton, Inc. 1-5# pkg unit air cooled, heat pump-\$1500-July 8, 1957 OK 9-16-57 Plaag

Plumbing Permits: #35056 Serota Plumbing: Relocate Plumbing Fixtures: July 1, 1953 Rothman, 12-29-53

37372 C. C. Gillett: 1 septic tank, 2 water closets, 2 lavatories, 1 shower,
1 laundry tray, 1 laundry washing machine, 1 floor drain: 9/12/1955

37394 Acme Septic Tank Co: one, 500 gallon septic tank Sept. 20, 1955 OK, Rothman
9/20/1955

#39479 Stolpmann Plbg: 1 4" Sewer - May 16, 1957 OK 5/27/57 Rothman

Electrical Permits: #13224 Miami Beach Electric: 1 Switch outlet, 4 Light outlets, 6 receptacles,
4 fixtures, August 19, 1939

#18001 State Electric: 4 Receptacles, November 17, 1941

Isaacs -----#29796 Hosack Electric: 4 Receptacles, 1 Center of fistribution, Oct. 14, 1949

#43245 Astor Electric..one switch outlet, one light outlet, one fixture, 1 motor...
OK, Plaag 1/19/1955 October 22, 1954

46071 Stewart Electric: 14 switch outlets, 20 receptacles, 18 light outlets,
18 fixtures, 2 refrigerator outlets, 2 lwater heater outlet, 1 fan outlet,
1 center of distribution, 1 service, 1 meter change Nov. 3, 1955

#50063 Astor Elec: 2 motors(1HP)- June 7, 1957 OK 6/20/57 Plaag

#50405 Lyon Elec: 2 Motors (1HP), 1 Motor (2-5HP)- July 16, 1957 OK 8-3-57 Hosack

Lot 283

Block 4

Subdivision

ALTERATIONS & ADDITIONS

Building Permits:

#82415 Alfred Sansone Exterior and interior painting \$4000.00 5/23/69

#83098 Alfred Sansone Inc. - Concrete slab for tennis court. This is no permit for fence \$5,000.00 10/9/69

#868 - Central Air Cond. & Sheet Metal - 1-5 Ton Air Cond. 10/20/69

#83398 - Lascher Roofing Co. - Repair tile roof 1 square \$125.00 12/3/69

ON 12/10/69 CITY COUNCIL DISAPPROVED VARIANCE WHICH WAS GRANTED BY ZBA ON 11/7/69 FOR PERMISSION TO CONSTRUCT A CHAIN LINK FENCE 10' HIGH WHICH WILL PROJECT INTO THE REAR SETBACK AREA AT A GRADUATING SCALE, ITS CLOSEST POINT TO THE PROPERTY LINE TO BE APPROXIMATELY 23'6". IN ACCORDANCE WITH A 1-PAGE PLAN DRAWN BY COLIN ARNOLD ARCHITECT. FILE #682.

ON 1/21/70 CITY COUNCIL RECONSIDERED AND APPROVED VARIANCE WHICH WAS GRANTED BY ZBA ON 11/7/69 FOR PERMISSION TO CONSTRUCT A CHAIN LINK FENCE 10' HIGH WHICH WILL PROJECT INTO THE REAR SETBACK AREA AT A GRADUATING SCALE, ITS CLOSEST POINT TO THE PROPERTY LINE TO BE APPROXIMATELY 23'6". IN ACCORDANCE WITH A 1-PAGE PLAN DRAWN BY COLIN ARNOLD ARCHITECT, WITH THE CONDITION THAT CONSTRUCTION COMMENCE WITHIN 6-MONTHS AFTER CITY COUNCIL APPROVAL. FILE #682.

Plumbing Permits:

#47466 - Edwin M. Green - 1 swimming pool piping 9/25/69

Electrical Permits:

Lot 2

Block 4

Subdivision SAN MARINO ISLAND

ALTERATIONS & ADDITIONS

Building Permits:

#54363 Palmer Roofing: Reroofing 2nd story flat deck roof gravel- \$145.00- September 4, 1957
#55280 Ace Sandblasting: Guniting repairs to swimming pool - \$2000 - Dec. 30, 1957

Plumbing Permits:

Electrical Permits:

Lot 2 & 3

Block 4

Subdivision San Marino Island

ALTERATIONS & ADDITIONS

Building Permits: #83588 - Clark Sales & Service - Installation of fence as per plan \$2,000.00 1/12/70

#83657 - Clarks Sales & Service Inc. Install 80' of 5' high fence on Existing 5' fence

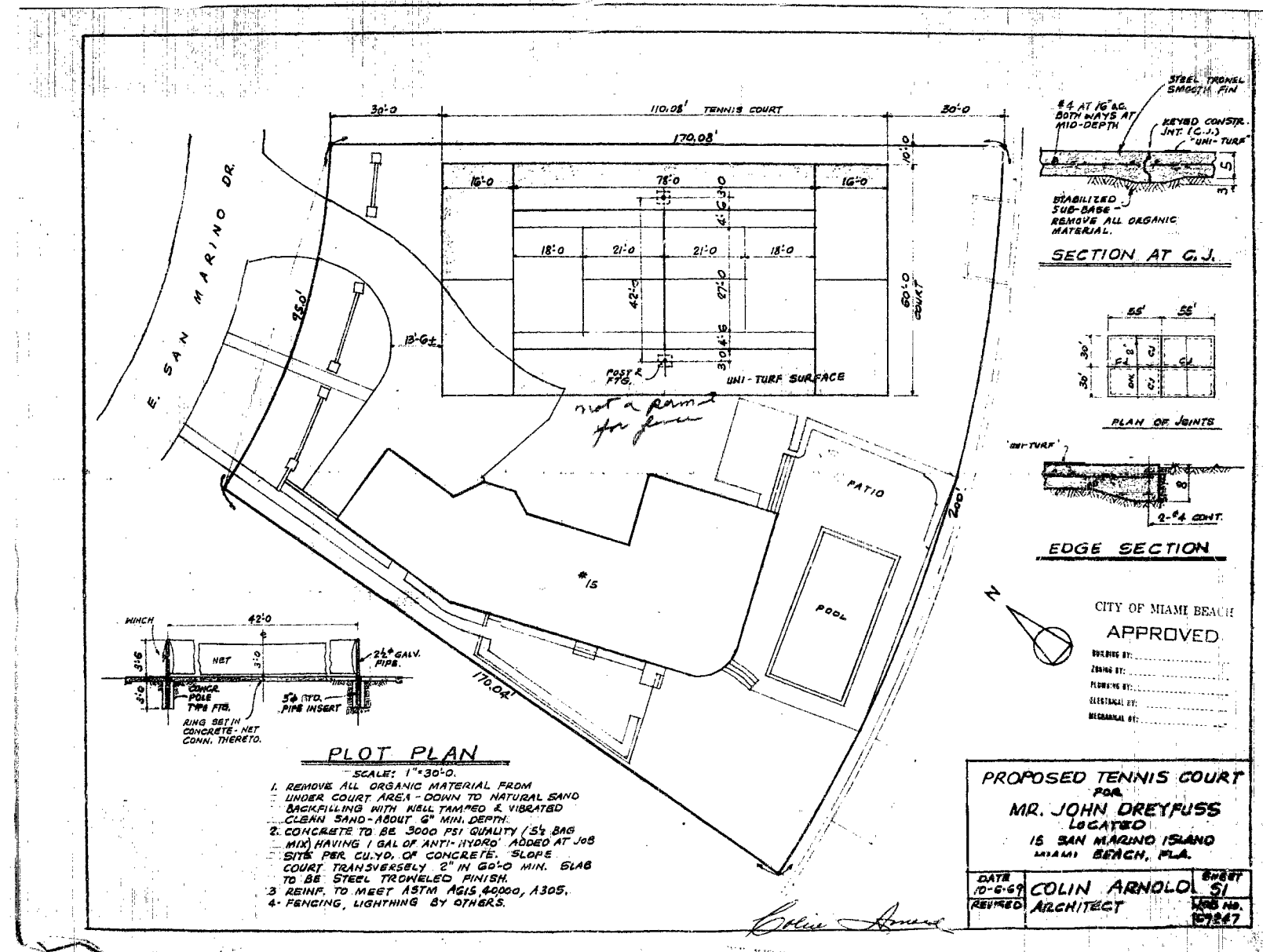
#85492 - Alfred Sansone - Remove concrete and Install clay in Tennis Ct. \$350.00 1/26/70
\$4,000.00 11/9/70

#03959-Orkin Ext.Co.-Fumigation-\$260-9-4-73

17780 Gonzalez Bros. dock repair & tie backs \$4,6000. 3-27-80

Plumbing Permits: #48119 - Kuznik Well Drilling Inc. - 1 sprinkler system 12/4/70

Electrical Permits:



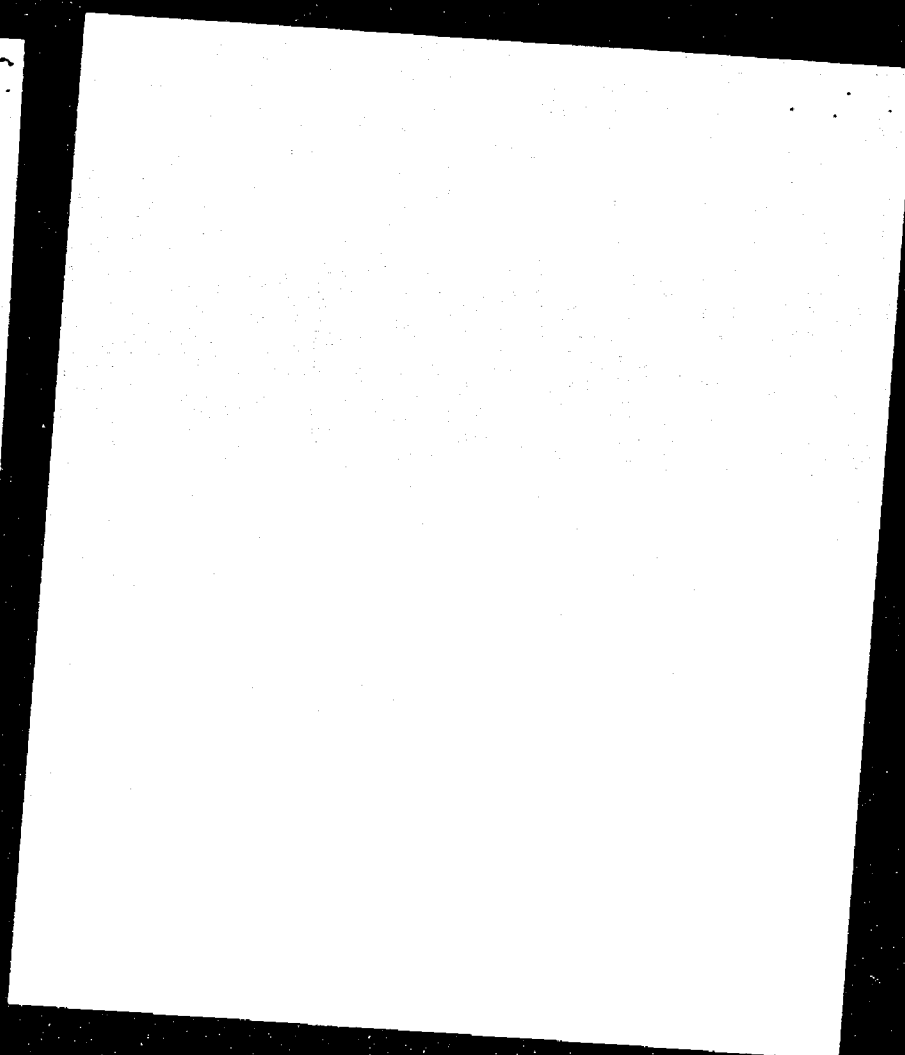
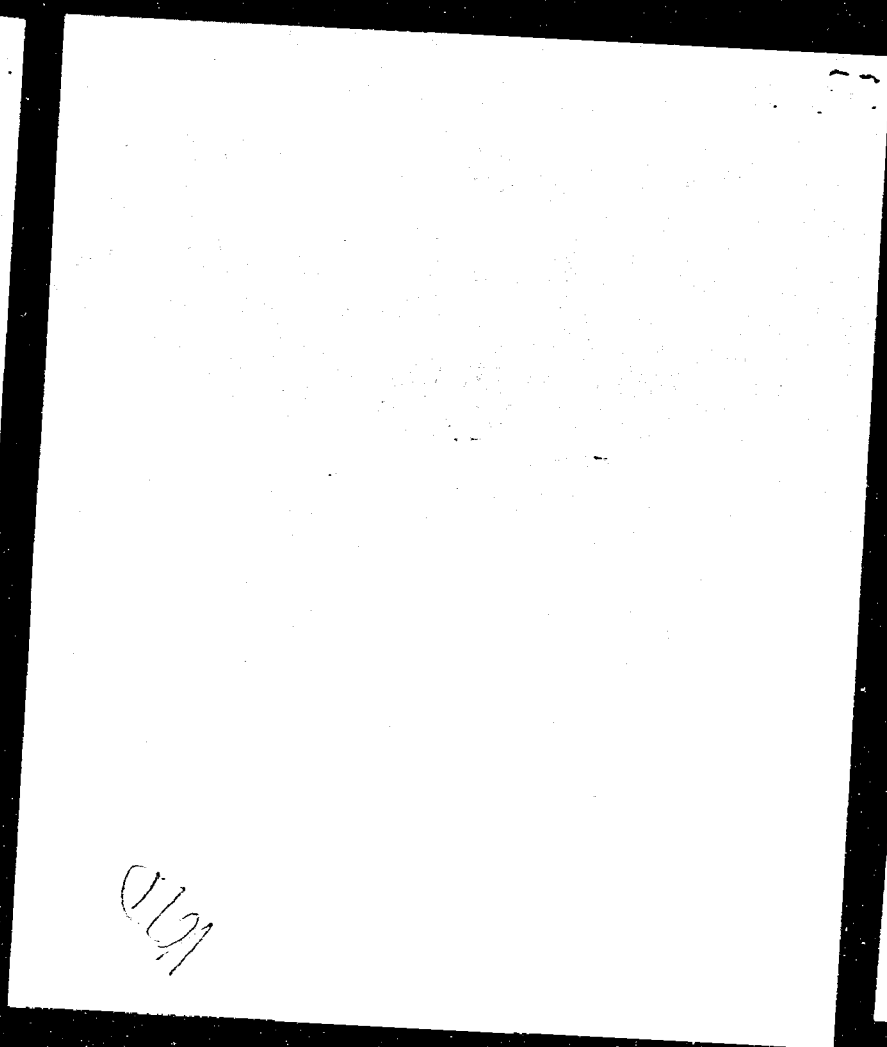
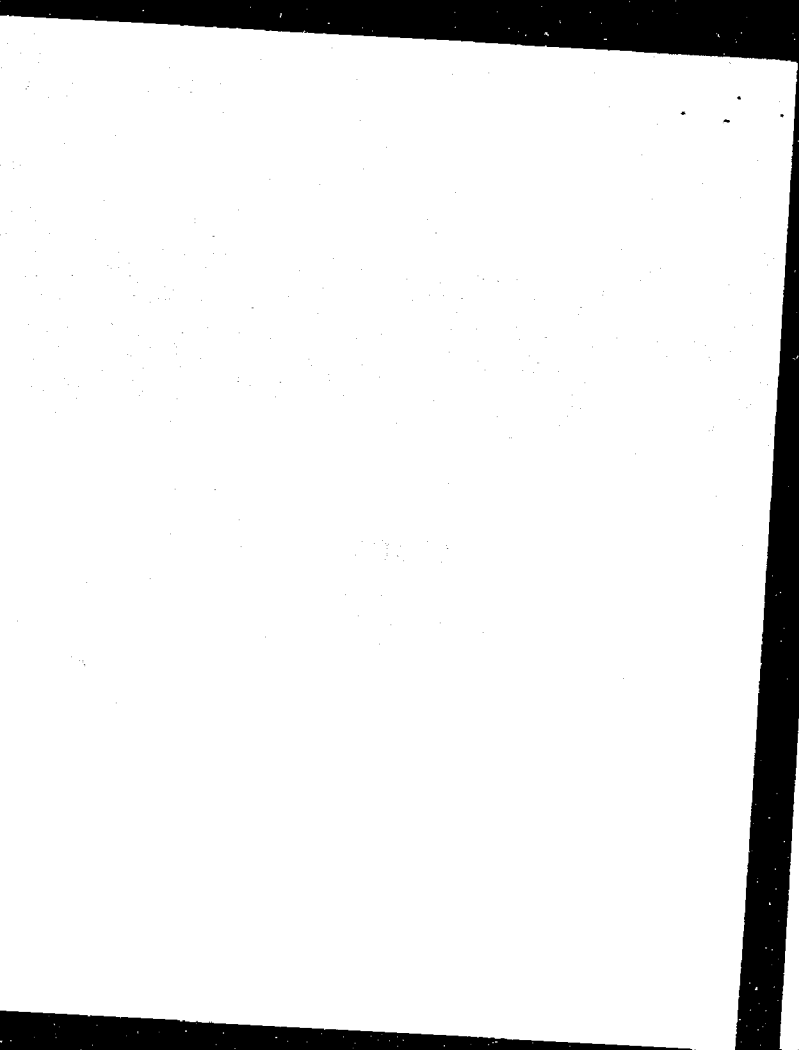
83098 S-1



PERMIT #

B0506036

21



P0506036
156m/1000R

