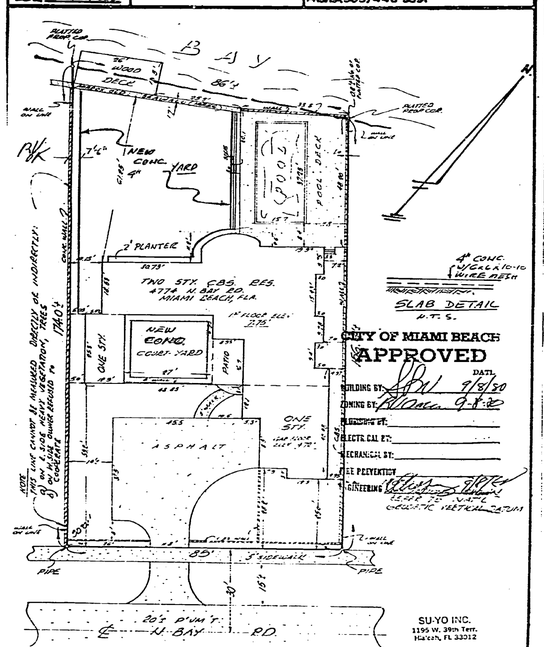
Section: 22-53-42
Order No: 11380-121
F.B. No: 29-86 D
Date: AUG. 13, 1980

FOR: SHAPIRO & BARRY

DÉNES & DÉNES & ASSOC, INC.
SURVEYORS · ENGINEERS · PLANNERS
278 Aragon Ave., Coral Gables, Fla, 33134
Phone (305) 446-3591



SU-YO INC.
1195 W. 39th Terr.
Hialeah, Fl. 33012

SHEET 2 OF 2 SHEETS

Section: 22-53-42
Order No: 11380-121
F.B. No: 29-86 D
Date: AUG. 13, 1980

FOR: SHAPIRO & BARRY

DÉNES & DÉNES & ASSOC, INC.
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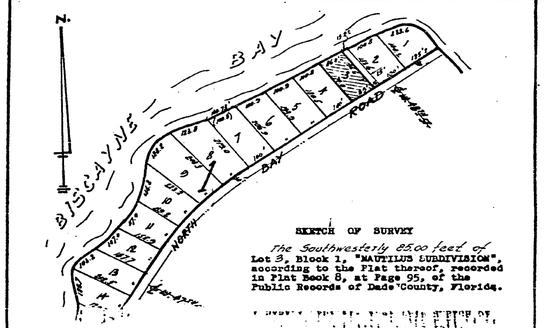


SKETCH OF SURVEY

The Southwesterly 85.00 feet of Lot 9, Block 1, "NAUTILUS SUBDIVISION", according to the Plat thereof, recorded in Plat Book 8, at Page 95, of the Public Records of Dade County, Florida.

Eugene Denes
Registered Land Surveyor #1025
State of Florida

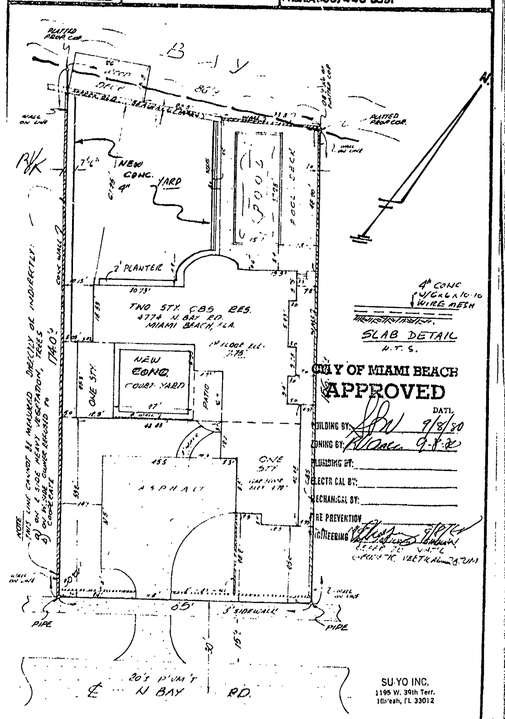
1. INSIDE REPAIRS TO WALLS TO BE MADE
2. NEW CONC. PATIO, FRONT & BACK
3. KITCHEN TO BE REMODELED BY "EURO DESIGN"
4. HOUSE TO BE PAINTED
5. FRONT SIDE WALK TO BE REPAIRED.

TOTAL COST. $ 23,000.00

BY.
SU-YO Inc.
GENERAL CONTRACTORS

SU-YO INC.
1195 W. 39th Terr.
Hialeah, Fl. 33012

1 8829



Section 22-53-42
Order No. 11980-121
F.B. No. 29-86 D
Date: AUG 12, 1980

FOR: SHAPIRO & BARRY

DÉNES & DÉNES & ASSOC. INC.
SURVEYORS · ENGINEERS · PLANNERS
270 Aragon Ave., Coral Gables, Fla. 33134
Phone (305) 446-3591

CITY OF MIAMI BEACH
APPROVED
DATE
BUILDING BY: 9/8/80
ZONING BY: 9-8-80
PLUMBING BY:
ELECTRICAL BY:
MECHANICAL BY:
FIRE PREVENTION
ENGINEERING 9/8/80
SLAB TO V.H.C.
CHECK VERTICAL DATUM

SU-YO INC.
1195 W. 39th Terr.
Hialeah, FL 33012

SHEET 2 OF 2 SHEETS

Section 22-53-42
Order No. 11980-121
F.B. No. 29-86 D
Date: AUG 12, 1980

FOR: SHAPIRO & BARRY

DÉNES & DÉNES & ASSOC. INC.
SURVEYORS · ENGINEERS · PLANNERS
270 Aragon Ave., Coral Gables, Fla. 33134
Phone (305) 446-3591

SKETCH OF SURVEY

The Southwesterly 85.00 feet of Lot 3, Block 1, "NAUTILUS SUBDIVISION", according to the Plat thereof, recorded in Plat Book 8, at Page 95, of the Public Records of Dade County, Florida.

[illegible]

Eugene Denes
Registered Land Surveyor #1025
State of Florida

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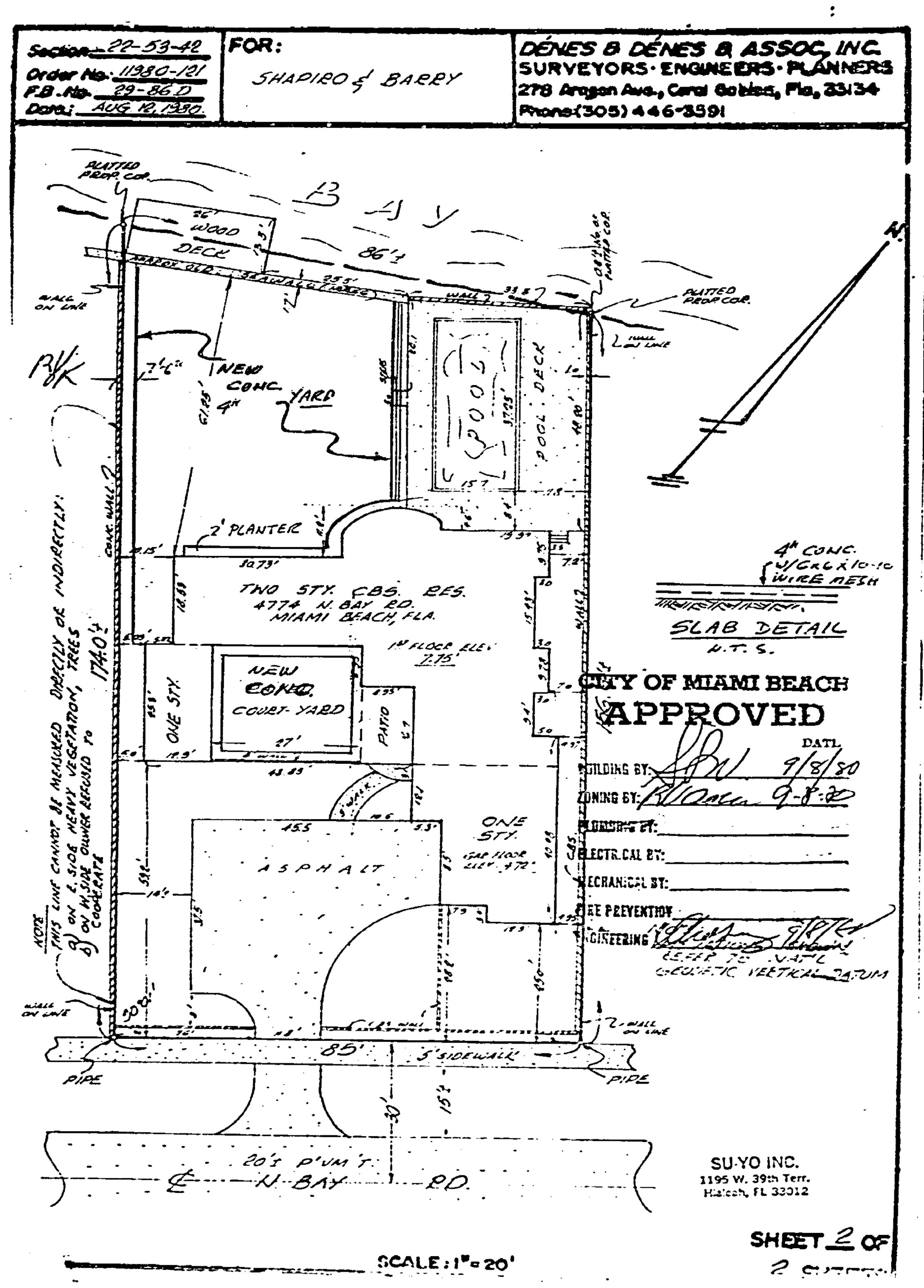
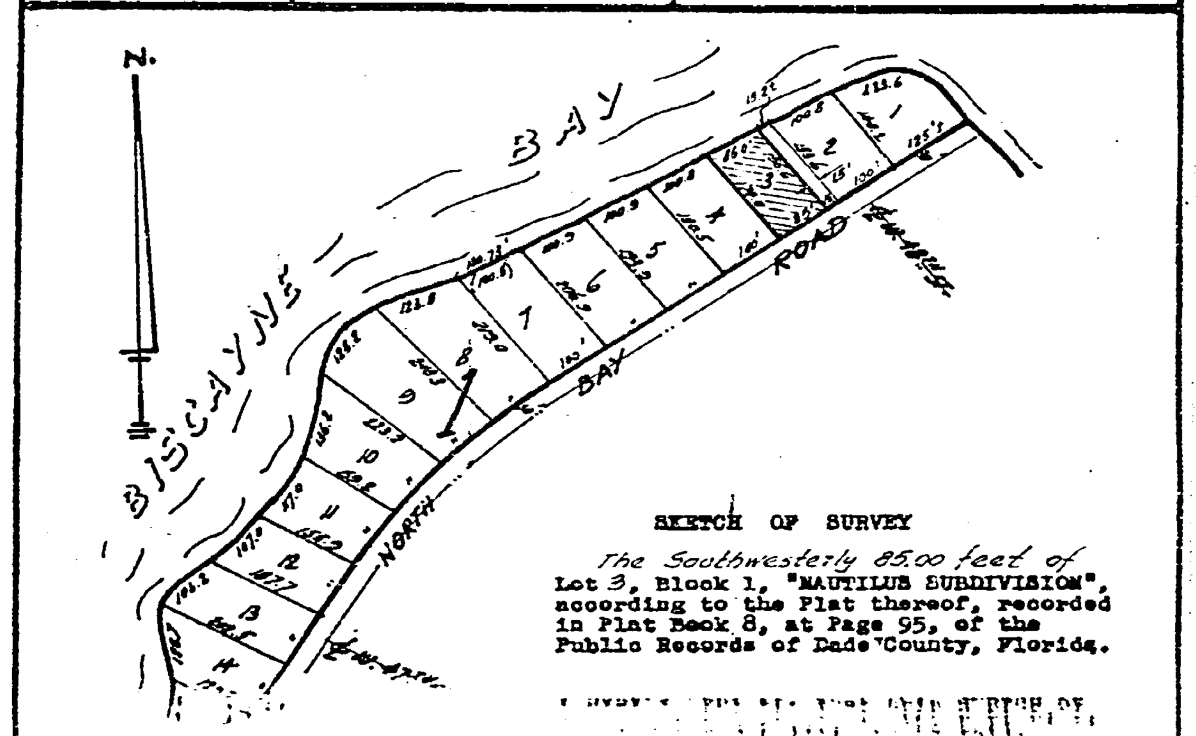
2- NEW CONC. PATIO, FRONT & BACK.
3- KITCHEN TO BE REMODELED BY "EURO DESIGN"
4- HOUSE TO BE PAINTED
5- FRONT SIDEWALK TO BE REPAIRED
TOTAL COST. $23,000.00

BY.
SU-YO Inc.
GENERAL CONTRACTORS

SU-YO INC.
1195 W. 39th Terr.
Hialeah, FL 33012



Section: 22-53-42 Order No.: 11980-121 F.B. No.: 99-86 D Date: AUG. 12, 1980.	FOR: SHAPIRO & BARRY	DENES & DENES & ASSOC, INC. SURVEYORS · ENGINEERS · PLANNERS 278 Aragon Ave., Coral Gables, Fla. 33134 Phone (305) 446-3591



SKETCH OF SURVEY

The Southwesterly 85.00 feet of Lot 3, Block 1, "NAUTILUS SUBDIVISION", according to the Plat thereof, recorded in Plat Book 8, at Page 95, of the Public Records of Dade County, Florida.

Eugene Denes
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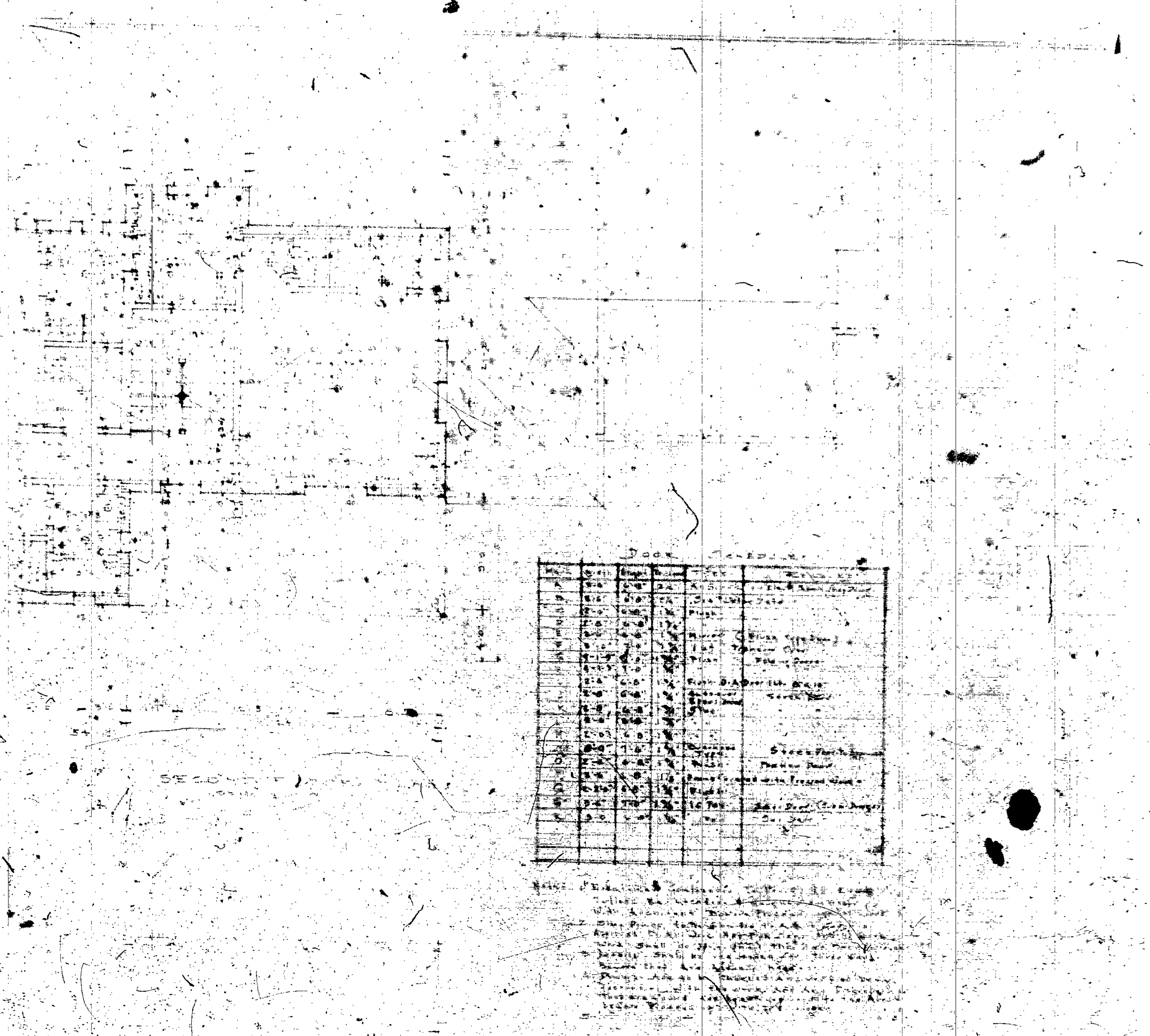
TOTAL COST. $23,000.00

BY.
SU-YO Inc.
GENERAL CONTRACTORS

SU-YO INC.
1195 W. 39th Terr.
Hialeah, FL 33012

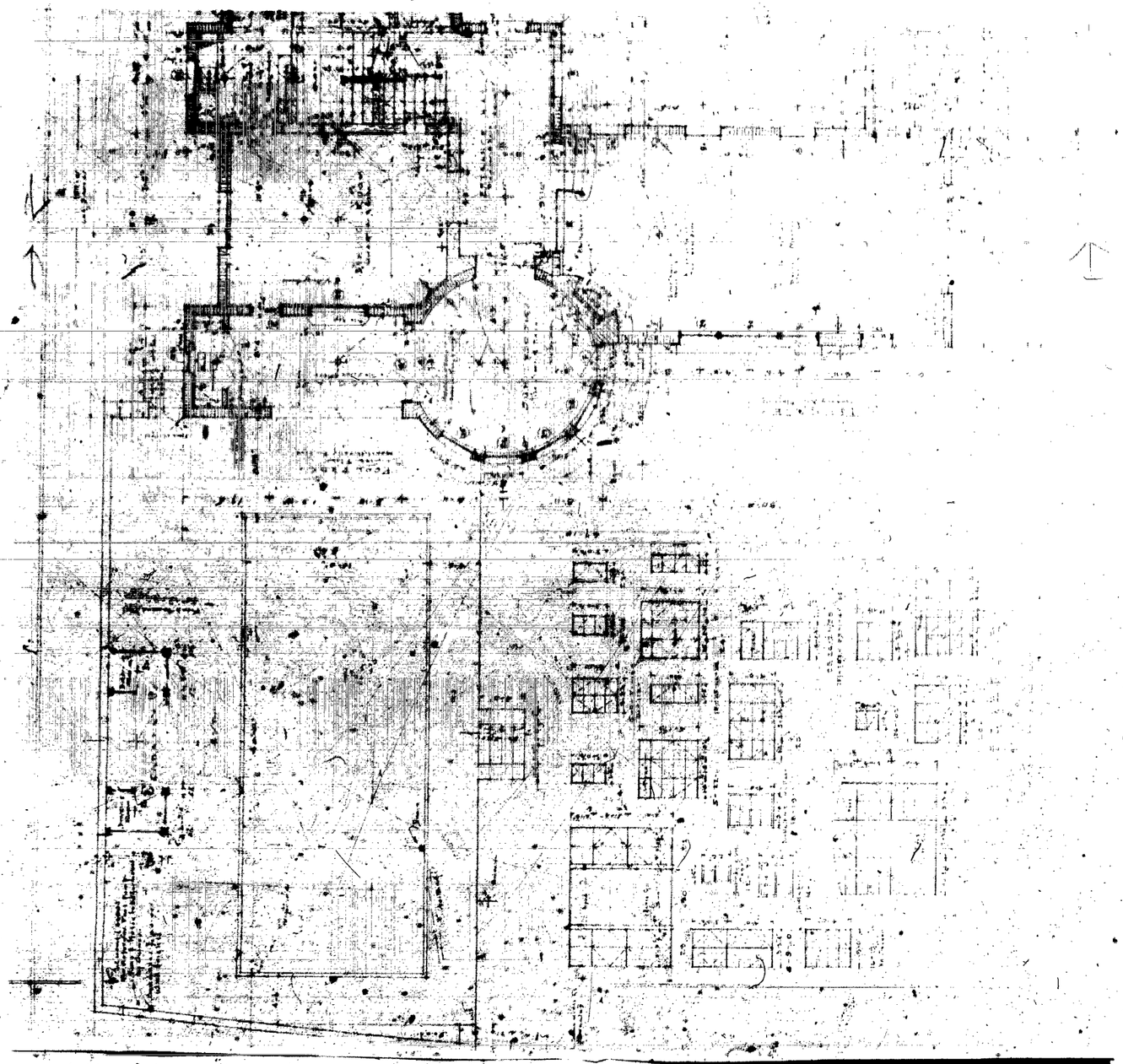
18829

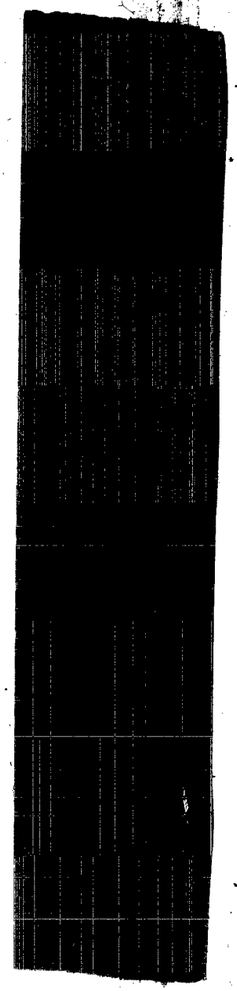


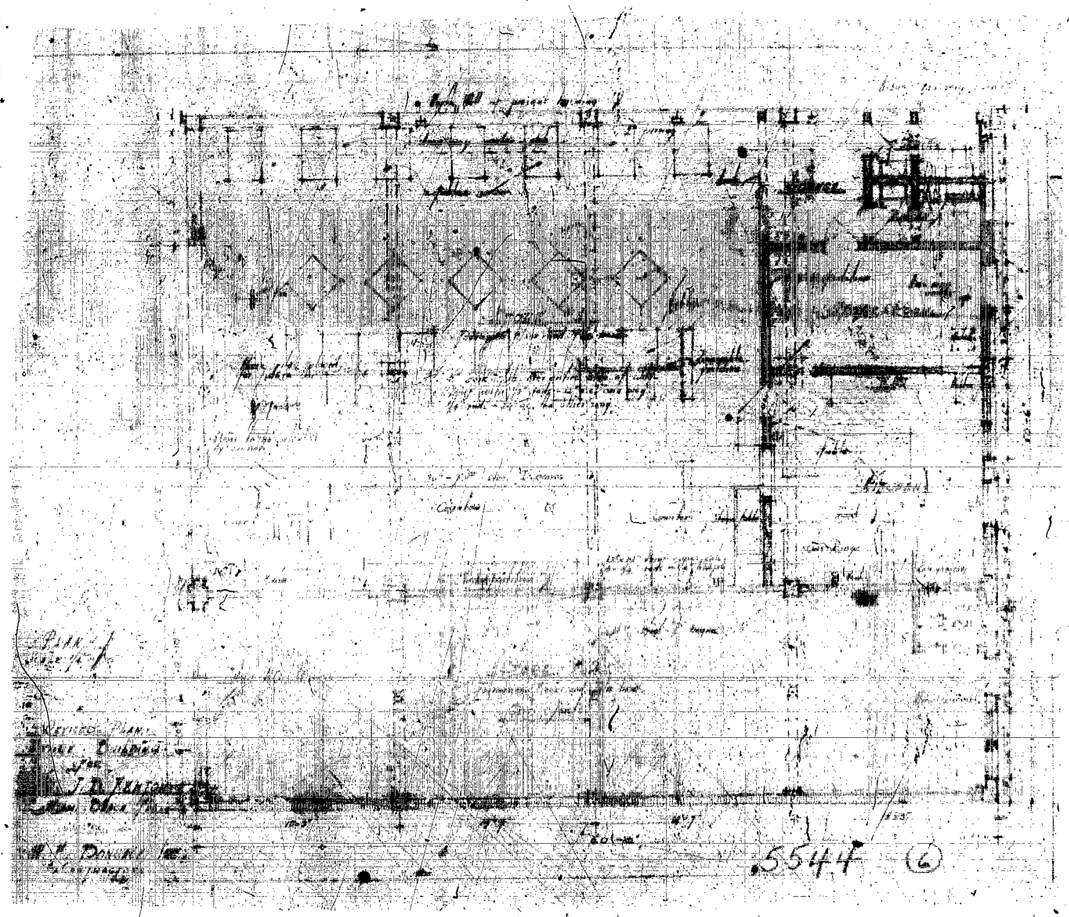
RESIDENCE FOR
DIDGE INC.
ROBERT L. WEED ARCHITECT
MIAMI FLORIDA
SECOND FLOOR PLAN
SCHEDULES

SHEET No. 2

398



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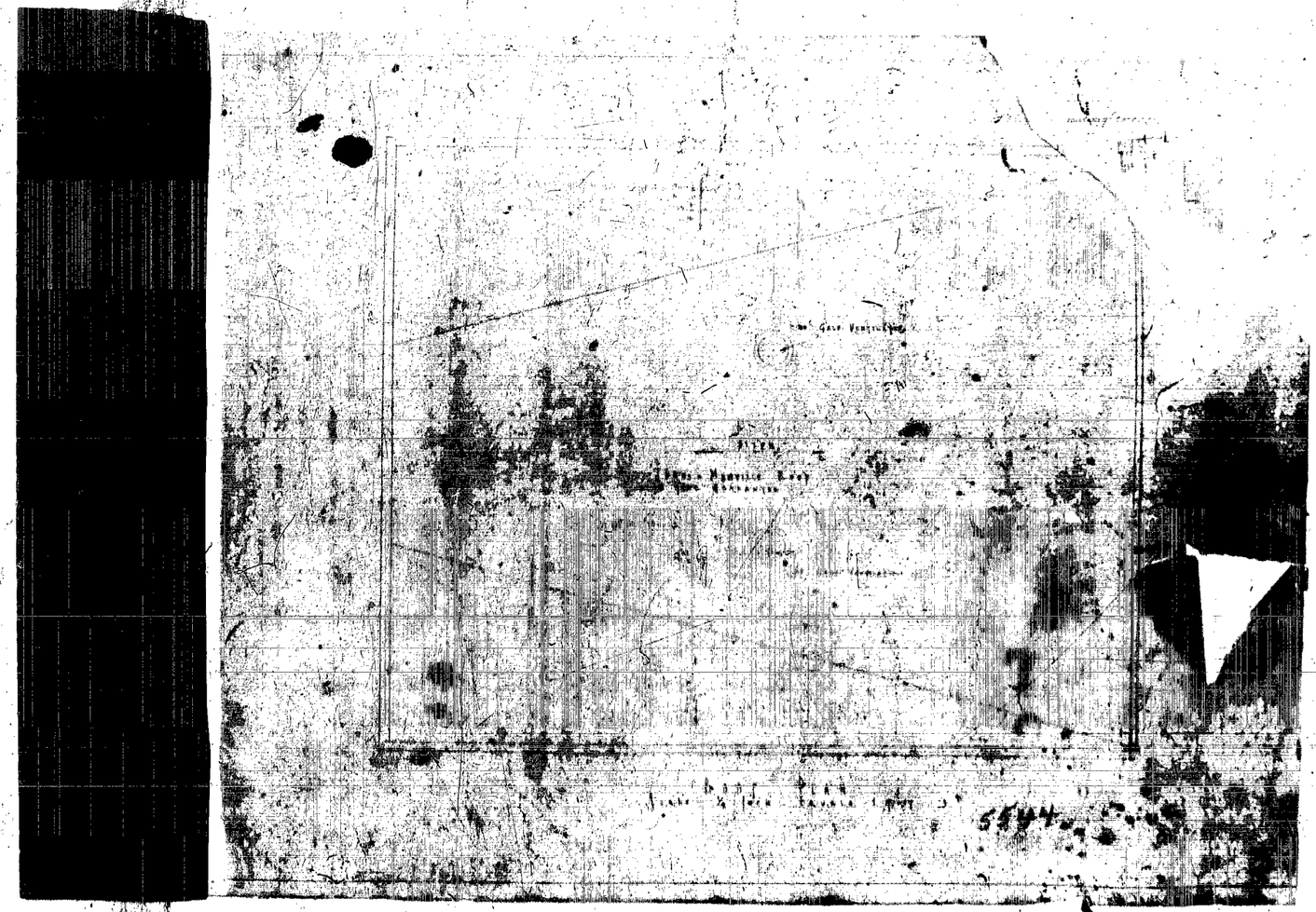
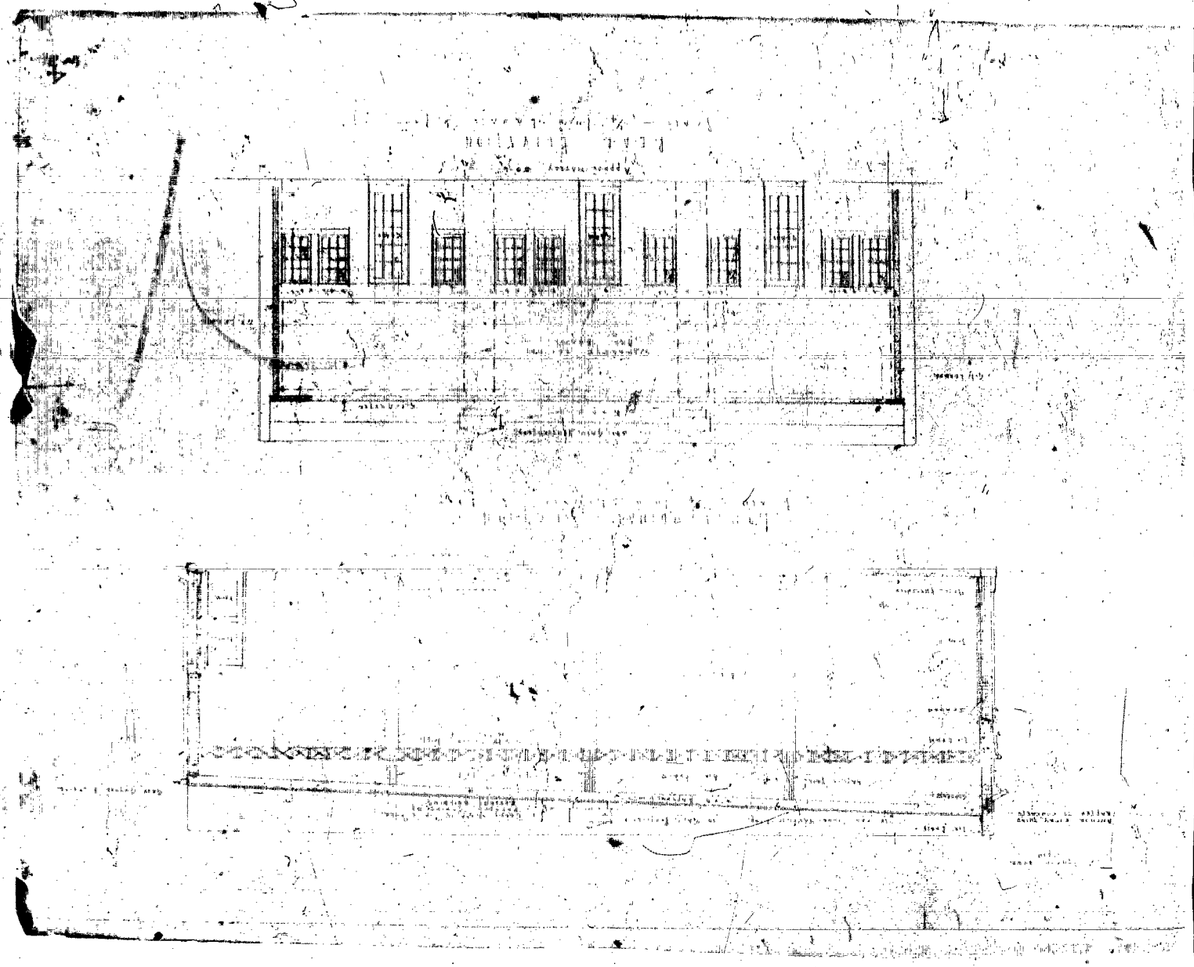




CITY OF MIAMI BEACH **B1100066 APP**
Building Department
1700 Convention Ctr Drive, 2nd Floor
Miami Beach, Florida 33139
Inspections: (305) 673-7370
Office: (305) 673-7610

Bldg Small Work Permit

10-06-2010

Activity Number: B1100066

Status: APPROVED Issued By: BUILRODR

Site Address: 4774 N BAY RD MBCH
Parcel #: 32220110030

Applied: 10/06/2010
Approved: 10/06/2010
Completed:
To Expire: 04/04/2011

Valuation: $14,000.00

Applicant: PRESTIGE ROOFING INC
DBA/PINNACLE A ROOFING COMPANY
P.O. BOX 398777
941-591-0291

Property Owner: STUART SHEPPARD &W MARJORY
4774 N BAY RD
MIAMI BEACH FL 331402814

Description: RE-ROOF TILE TO TILE 3,300
Inspector Area: N Class Code: R3

DETAIL LIST

Alteration/Repair Fees		
New Construction - Per Sq.Ft.:	0	$0.00
Alteration Bulding/Structures - Per Sq.Ft.:	3300	$390.00
Awning, Canopy, Patio Cover - Per Costs:	$0.00	$0.00
Area Under Roof - RADON - Per Sq.Ft.:	3300	$16.50
Walk-Thru (Zoning)- Per Valuation:	$14,000.00	$10.00
Repairs to Building/Structure - Per Sq.Ft.:	$0.00	$0.00
Roofing or Re-roofing - Per Sq.Ft.:	3300	$0.00
Window/Doors - Per # of Openings:	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:	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

PAID

[BSBLDPRM]

Activity Number: B1100066

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
Fire Fee		$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
SFBC Compliance:		$8.40
Training Fee		
Training Fee:	$23.40	$0.00
Sanitation Fee:		$42.00
Fire Training Fee:		$0.00
Public Works Fee:		$0.00
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:		$496.15
Total of Payments:		$496.15
Balance Due:		$0.00

MIAMIBEACH

BUILDING DEPARTMENT
1700 Convention Center Drive | Miami Beach, FL 33139
Office: 305.673.7610 | Fax: 305.673.7857

S,R-PW $496.00 15

WORK PERMIT APPLICATION

FLORIDA BUILDING CODE _____ EDITION

~~B1100066~~

Date: 10/5/10	**DATA INFORMATION** PLEASE PRINT (USE BLACK OR BLUE INK)	Permit No: B1100066 **(For office use only)**

Parcel/ Folio No. 3227-011-0080	Job Address: 4774 N. Bay Rd
If subsidiary or revision; provide the **Master Building Permit Number:**	**Is this permit associated with a violation?** If yes, BV #:

Type of Service: Check Applicable	☒ **New** Permit Application	☐ Revision	Change of: ☐ Architect ☐ Engineer	☐ Shop Drawings	☐ Occupant Content	
Type of Permit: Check Applicable Provide permit detail on page 4	☒ Building	☐ Electrical	☐ Mechanical	☐ Plumbing	☐ Fire	☐ Special Events	☐ Demolition Year Built: _____
Type of Property: Check Applicable	☐ Commercial	☒ Residential (SFH or Duplex)	☐ Multi – Family			
Type of Improvement: Check Applicable	☐ New Construction	☐ Addition	☐ Reconfiguration of space	☒ Remove & Replace		
Type of Review: Check Applicable	☒ Regular Walk Thru	☐ 24 Hour Walk Thru	☐ Drop Off	☐ Electronic Plan Review	☐ Expedited Plan Review **(O.T Payment Required)**	
Type of Project: Check Applicable	☐ City Project	☐ Historic	☐ Housing Urban Development **(HUD)**	☐ Leadership In Energy & Environmental **(LEED)**	☐ Special Inspector	☐ Private Provider

Type of Occupancy: Check Applicable	☐ A-1 Assembly (Theater/ Concert Hall) ☐ A-2 Assembly (Restaurant/Night Club/ Bar) ☐ A-3 Assembly (Worship/Amusement/ Arcade Community Hall ☐ B – Business ☐ D/E -Daycare & Educational	☐ I-1 Institutional (Ambulatory) ☐ I-2 Institutional (Non Ambulatory) ☐ M -Department Store / Drug Store ☐ M -Gas Station ☐ M – Retail/ Warehouse ☐ R-1 Residential Transient (Boarding House/ Hotel/Motel) ☐ R-2 Residential Permanent (Apartment/Dormitory/ Timeshare)	☐ R-3 Residential (Dwelling/ Custom Homes) ☐ R-4 Residential (Assisted Living 6-16 person) ☐ S-1 Storage (Mod. Hazard (Repair Garage) ☐ S-2 Storage (Low Hazard (excluding Parking Garage) ☐ S-2 Storage (Parking Garage)
Square feet for each occupancy type: 1. _____ 2. _____ 3. _____			

Other:	Job Value$: 14,000	Square Ft: 3,300
Description of Work: Please be specific with description	Re-Roofing tile to tile	
Extent of Work: Check Applicable	☐ Alteration Level I ☐ Alteration Level II	☐ Alteration Level III ☐ Change of Occupancy

Building Information:	Number of Units: 1	Height of Building: 12	Number of Stories: 1

New Construction/Addition:	Job Value $:	Sq Ft:
Alteration/Reconfiguration of space:	Job Value $:	Sq Ft:

Architect:	Name: _____ Address: _____ Suite No: _____ City/State/Zip Code: _____ Email Address: _____ License No: _____ Office#: _____ Cell#: _____	**Engineer:**	Name: _____ Address: _____ Suite No: _____ City/State/Zip Code: _____ Email Address: _____ License No: _____ Office#: _____ Cell#: _____
Bonding Company Name:	Name: _____ Address: _____ Suite No: _____ City/State/Zip Code: _____ Office#: _____ Cell#: _____	**Fee Simple Title Holder: (If Other Than Owner)**	Name: _____ Address: _____ Suite No: _____ City/State/Zip Code: _____ Office#: _____ Cell#: _____
Contractor:	Name: Prestige Roofing. Address: 1205 Lincoln Rd Suite No: — 204 — City/State/Zip Code: Miami Beach FL 33139 Email Address: — License No: CCC055594 Office#: (305) 951-1878 Cell#: _____	**Property Owner:**	Name: Margoiee Sheppard Address: 4774 N. Bay Rd Suite No: _____ City/State/Zip Code: Miami Beach Email Address: — Driver License No: S 448-236-48-317-0 Office#: _____ Cell#: (305) 262-4024

ATTENTION:
Important Notice
Please Read Carefully

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 a **separate permit** must be secured for **Electrical, Mechanical, Plumbing, Signs, Wells, Pools, Furnaces, Boilers, Heaters, Tanks, and Air Conditioners, Etc.**

CONDO CONVERSIONS are a change of use of the building and require a new certificate of occupancy. If this application implies a condo conversion, it shall be clearly stated in the description and on the plans; otherwise, the certificate of occupancy will be denied.

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.

OWNER'S OR PERSON RESPONSIBLE FOR IMPROVEMENTS 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.**

Under penalties of perjury, I declare that to the best of my knowledge, the facts stated in this document are true. Any information found to be false may cause the revocation and/or denial of the permit and/or certificate of occupancy.

Owner	Tenant (If Applicable)	Qualifier
Signature of Owner of Agent:	Signature of Tenant:	Signature of Qualifier:
Printed Name of Owner of Agent: Marlon Sheppard	Printed Name of Tenant:	Printed Name of Qualifier: Robert Thomas
Date of Signature: 10/5/10	Date of Signature:	Date of Signature: 10/5/10
Signature of Notary Public	Signature of Notary Public	Signature of Notary Public
Identification: personal	Identification	Identification: personal
Swore to and subscribed before me this 5 day of 10 20 10	Swore to and subscribed before me this ____ day of ____ 20 ____	Swore to and subscribed before me this 5 day of oct 20 10
(SEAL) OMAYRA IZQUIERDO Notary Public - State of Florida My Commission Expires Jan 24, 2011 Commission # DD 632614 Bonded Through National Notary Assn.	(SEAL)	(SEAL) OMAYRA IZQUIERDO Notary Public - State of Florida My Commission Expires Jan 24, 2011 Commission # DD 632614 Bonded Through National Notary Assn.

THE SIGNATURE REQUIRED BELOW IS FOR *OWNER/BUILDER APPLICANTS ONLY*. PLEASE DO NOT SIGN BELOW IF THIS IS NOT AN OWNER/BUILDER APPLICATON.

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 FIRST STREET, MIAMI, FL

STATE OF FLORIDA _____ COUNTY OF _____

_____ _____

Print Owner' s Name Owner's Signature

Sworn to and subscribed before me this _____ day of _____ 20 ____ , by _____

- ☐ Personally
- ☐ Produced Identification – Type of Identification _____

_____

Signature of Notary Public (SEAL)

Application Approval By: _____ _____

Permit Clerk Signature Date

MIAMIBEACH

BUILDING DEPARTMENT
1700 Convention Center Drive, 2nd Floor
Miami Beach, FL, 33139
Phone 305-673-7610 Fax 305-673-7857

VIOLATIONS SECTION AUTHORIZATION FORM

Check Box That Applies:

☒ Authorization for applicant to obtain a permit(s) with expired permits under the contractor's license number: Number of expired permits 10; See attached printout.

☐ Authorization for applicant to obtain a permit(s) with violations under the following property address: _____

☐ Approval for partial compliance of a violation
Double Fee ☐ Yes ☐ No

_____
Signature of Qualifier

Robert Thomas
Printed Name of Qualifier

CCC055594
License #

STATE OF FLORIDA
COUNTY OF _____

Sworn to and subscribed before me this 5 day of October 2010, by: _____

(X) Personally Known ( ) Produced Identification - Type of Identification _____

_____
Signature of Notary Public (Seal)

MAYRA IZQUIERDO
Notary Public - State of Florida
My Commission Expires Jan 24, 2011
Commission # DD 632614
Bonded Through National Notary Assn.

==========

FOR OFFICE USE ONLY

Chief Building Code Compliance Officer _____ Ext. 6045

Sr. Building Inspector _____ 10/05/10 Ext. 6801

Permit Clerk I _____ Ext. 2555

Small

B1100066

MIAMI-DADE COUNTY

"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.

MS **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.

MS **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).

MS **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.

MS **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 on the underside of the decking may not be acceptable. The owner provides the option of maintaining this appearance.

MS **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.

MS **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***.

MS **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: 10 / 5 / 10

Contractor's Signature: _____ Permit Number: _____

Property Address: 4774 N. Bay Rd

B11000666

Florida Building Code Edition 2007
High Velocity Hurricane Zone Uniform Permit Application Form

Section A (General Information)

Master Permit No. _____ **Process No.** _____

Contractor's Name Prestige Roofing Inc

Job Address 4774 N. Bay Rd Miami Beach.

ROOF CATEGORY

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

Are there Gas Vent Stacks? Yes☐ No☐
Type: Natural☐ LPGX☐

ROOF TYPE

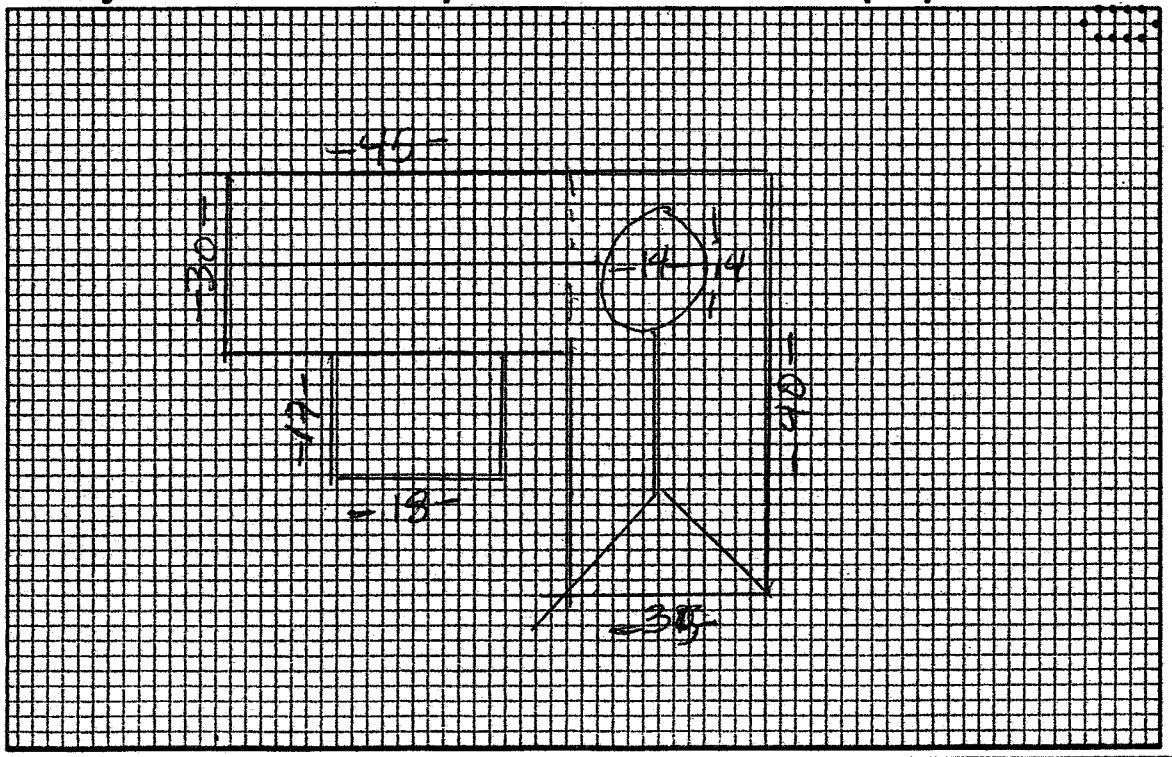
- ☐ New Roof
- ☒ Re-Roofing
- ☐ Recovering
- ☐ Repair
- ☐ Maintenance

ROOF SYSTEM INFORMATION

Low Slope Roof Area (SF)	Steep Sloped Roof Area (SF)	Total (SF)
	3,300	3,300

Section B (Roof Plan)

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



Florida Building Code Edition 2007
High Velocity Hurricane Zone Uniform Permit Application Form

Section D (Steep Sloped Roof System)

Roof System Manufacturer: Monier Lifetile, LLC

Notice of Acceptance Number: 07-0711.03

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):

P1: 45.1 **P2:** 78.6 **P3:** 116.2

Maximum Design Pressure (From the NOA Specific System): 31.3

Method of tile attachment: tile bond (two patty system)

Steep Sloped Roof System Description

Deck Type: 5/8 Plywood

Type Underlayment: 30# Astm.

Roof Slope: 3 : 12

Insulation: — o —

Fire Barrier: — o —

Fastener Type & Spacing: 1¼ Ring Shank nails 6" lap 12" o.c. field

Ridge Ventilation? N/A

Adhesive Type: Self Adhesive

Type Cap Sheet: Poly Glass (Peel and stick) ist Plus

Roof Covering: Monier Lifetile Saxony 900 Flat tile 13" white

Mean Roof Height: 12

Type & Size Drip Edge: 3X3 Galv.

Florida Building Code Edition 2002
High Velocity Hurricane Zone Uniform Permit Application Form.

Section E (Tile Calculations)

For Moment based tile systems, choose either Method 1 or 2. Compared the values for M_r with the values from M_f. If the M_f values are greater than or equal to the Mr 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: 45.1 x λ 0.318 = 14.11) – Mg: 8.03 = M_{r1} 6.08 NOA M_f 31.3

(P_2: 78.6 x λ 0.313 = 24.60) – Mg: 8.03 = M_{r2} 16.57 NOA M_f 31.3

(P_3: 116.2 x λ 0.313 = 36.37) – Mg: 8.03 = M_{r3} 28.34 NOA M_f 31.3

tile bond (two path system)

Method 2 "Simplified Tile Calculation Per Table Below"

Required Moment of Resistance (M_r) From Table Below _____ **NOA M_f** _____

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. Compared 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: ____ x l: ____ = ____ x w: = ____) – W: ____ x cos θ: ____ = F_{r1}: ____ NOA F'____

(P_2: ____ x l: ____ = ____ x w: = ____) – W: ____ x cos θ: ____ = F_{r2}: ____ NOA F'____

(P_3: ____ x l: ____ = ____ x w: = ____) – W: ____ x cos θ: ____ = F_{r3}: ____ NOA 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	NOA
Restoring Moment due to Gravity	M_g	NOA
Attachment Resistance	M_f	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.		

Florida Building Code Edition 2002
High Velocity Hurricane Zone Uniform Permit Application Form.

Section D (Steep Sloped Roof System)

Roof System Manufacturer:_____

Notice of Acceptance Number:_____

Minimum Design Wind Pressures, If Applicable (From RAS 127 or Calculations):

P1:_____ **P2:**_____ **P3:**_____

Maximum Design Pressure (From the NOA Specific System):_____

Method of tile attachment:_____

Steep Sloped Roof System Description

Deck Type:

Type Underlayment:

Roof Slope:
_____: 12

Insulation:

Fire Barrier:

Ridge Ventilation?
_____

Fastener Type & Spacing:

Adhesive Type:

Type Cap Sheet:

Roof Covering:

Mean Roof Height:_____

Type & Size Drip Edge:

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

MonierLifetile, LLC
200 Story Road
Lake Wales, FL 33853

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 and the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Saxony 900 (Shake, Slate & Split Shake) Concrete Roof Tile

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# 07-0228.03 and consists of pages 1 through 7.
The submitted documentation was reviewed by Alex Tigera.

ROOFING ASSEMBLY APPROVAL

Category: Roofing

Sub-Category: Flat Profile Roofing Tiles

Material: Concrete

SCOPE:

This new NOA approves a system using MonierLifetile Saxony 900 (Shake, Slate & Split Shake) Concrete Roof Tile, as manufactured MonierLifetile LLC and described 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 the installation section herein. The attachment calculations shall be done as a moment based system.

PRODUCT DESCRIPTION

Manufactured by Applicant	Dimensions	Test Specifications	Product Description
MonierLifetile LLC Saxony 900	l = 17" w = 13" 1-5/32" thick Slate 1-9/32" thick Shake & Split Shake	TAS 112	Flat profile, interlocking, high-pressure extruded concrete roof tile equipped with two nail holes. For direct deck or battened nail-on, mortar set 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.

SUBMITTED EVIDENCE:

Test Agency	Test Identifier	Test Name/Report	Date
Redland Technologies	7161-03 Appendix III	Static Uplift Testing PA 102 & PA 102(A)	Dec. 1991
The Center for Applied Engineering, Inc.	94-084	Static Uplift Testing PA 101 (Mortar Set)	May 1994
The Center for Applied Engineering, Inc.	94-060A	Static Uplift Testing PA 101 (Adhesive Set)	March, 1994
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

Test Agency	Test Identifier	Test Name/Report	Date
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.	Project No. 307025 Test #MDC-77	Wind Driven Rain PA 100	Oct. 1994
Atlanta Testing & Engineering, Inc.	R1.894 R2.894 R3.894	Physical Properties PA 112	Aug. 1994
Celotex Corporation Testing Service	520109-1 520111-4	Static Uplift Testing PA 101	Dec. 1998
Celotex Corporation Testing Service	520191-1	Static Uplift Testing PA 101	March 1999
Walker Engineering, Inc.	Evaluation Calculations	25-7094	February 1996
Walker Engineering, Inc.	Evaluation Calculations	25-7496	April 1996
Walker Engineering, Inc.	Evaluation Calculations	25-7584 25-7804b-8 25-7804-4 & 5 25-7848-6	December 1996
Walker Engineering, Inc.	Evaluation Calculations	25-7183	March 1995
Walker Engineering, Inc.	Evaluation Calculations	Aerodynamic Multipliers	January 2007
Walker Engineering, Inc.	Calculations	Two Patty Adhesive Set System	April 1999
Walker Engineering, Inc.	Evaluation Calculations	Restoring Moments Due to Gravity	February 2007
Nutting Engineers	130	TAS 112	January 2007

LIMITATIONS:

1. Fire classification is not part of this acceptance.
2. For mortar or adhesive set tile applications, a static field uplift test shall be performed in accordance with RAS 106.
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.
4. Minimum underlayment shall be in compliance with the applicable Roofing Applications Standards listed section 4.1 herein.
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.
6. This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.

INSTALLATION:

1. MonierLifetile Saxony 900 (Slate, Shake & Split Shake) Concrete Roof Tile and its components shall be installed in strict compliance with Roofing Application Standard RAS 118, RAS 119, and RAS 120.
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)
MonierLifetile Saxony 900 Slate, Shake & Split Shake	11.5	1.417	1.08

Table 2: Aerodynamic Multipliers - λ (ft^3)

Tile Profile	λ (ft^3) Batten Application	λ (ft^3) Direct Deck Application
MonierLifetile Saxony 900 Slate, Shake & Split Shake	0.289	0.313

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	
Saxony 900	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck	Battens	Direct Deck
Slate, Shake & Split Shake	7.16	8.12	7.08	8.03	6.97	7.91	6.82	7.74	6.65	7.55	6.46	7.34

Table 4: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Nail-On Systems				
Tile Profile	**Fastener Type**	**Direct Deck (min 15/32" plywood)**	**Direct Deck (min. 19/32" plywood)**	**Battens**
Saxony 900 Slate, Shake & Split Shake	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 Screws	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

Table 5: Attachment Resistance Expressed as a Moment M_f (ft-lbf) for Two Patty Adhesive Set Systems		
Tile Profile	**Tile Application**	**Minimum Attachment Resistance**
MonierLifetile Saxony 900 Slate, Shake & Split Shake	Adhesive	31.3[2]
1 See manufactures component approval for installation requirements.		
2 Dow Chemical 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_f (ft-lbf) for Single Patty Adhesive Set Systems		
Tile Profile	**Tile Application**	**Minimum Attachment Resistance**
MonierLifetile Saxony 900 Slate, Shake & Split Shake	Polyfoam PolyPro™	118.9[3]
	Polyfoam PolyPro™	40.4[4]
3 Large paddy placement of 45 grams of PolyPro™.		
4 Medium paddy placement of 24 grams of PolyPro™.		

Table 5B: Attachment Resistance Expressed as a Moment - M_f (ft-lbf) for Mortar Set Systems		
Tile Profile	**Tile Application**	**Attachment Resistance**
MonierLifetile Saxony 900 Slate, Shake & Split Shake	Mortar Set[1]	43.9[5]
5. Tile-Tite Roof Tile Mortar		

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".

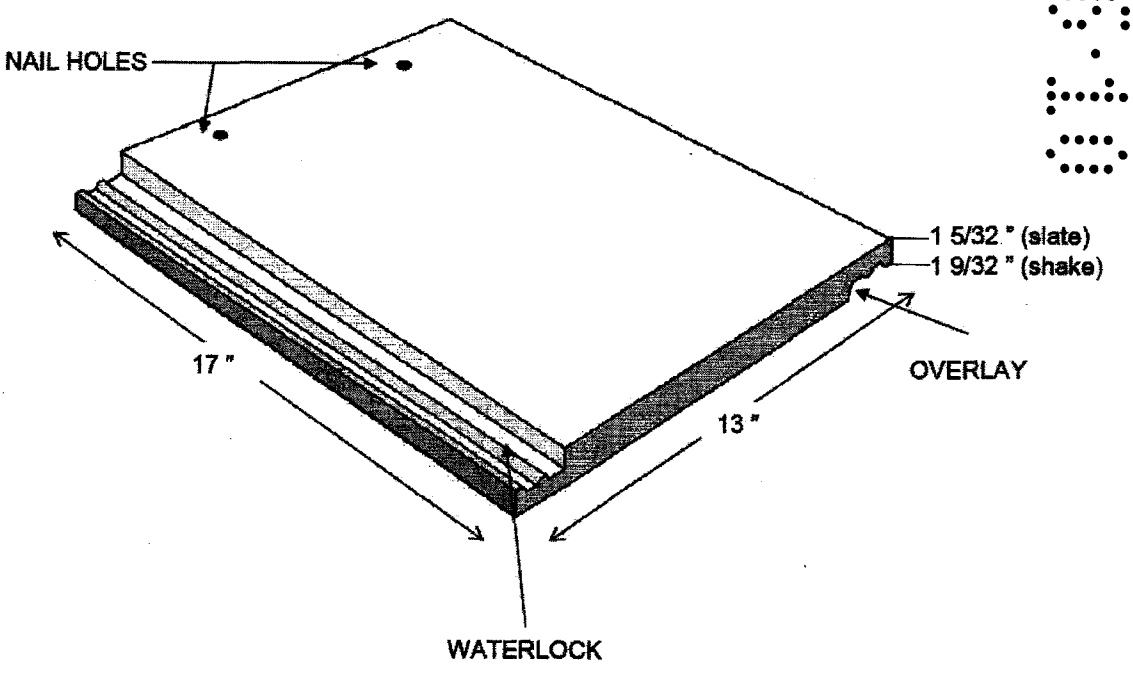
MONIERLIFETILE LLC, SAXONY 900 TILE (LAKE WALES FL PLANT 2)
LOCATED UNDERNEATH TILE

BUILDING PERMIT REQUIREMENTS:

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

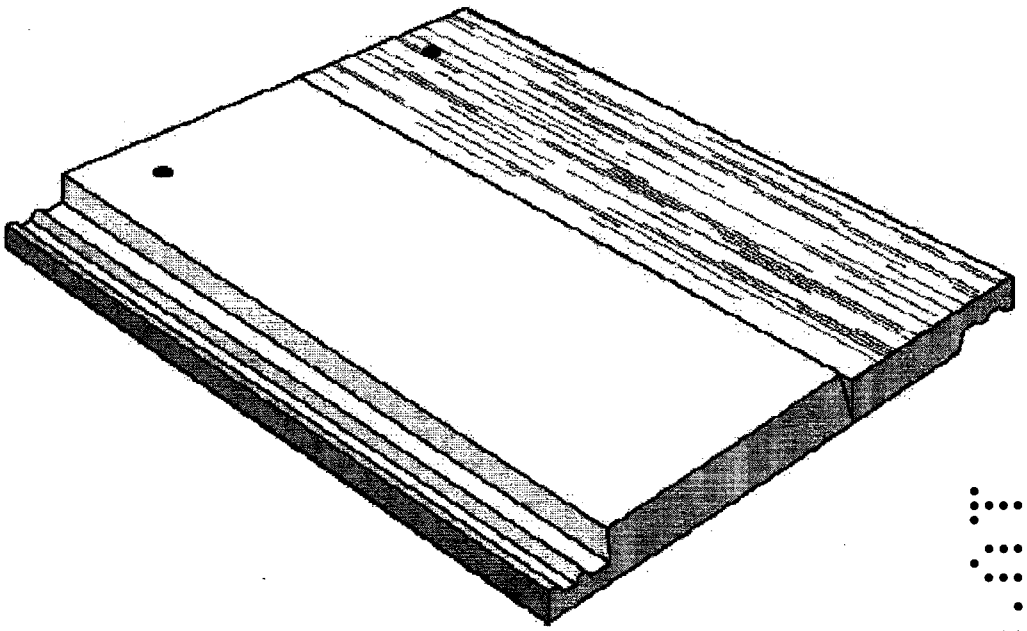
1. This Notice of Acceptance.
2. Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this system.

PROFILE DRAWING

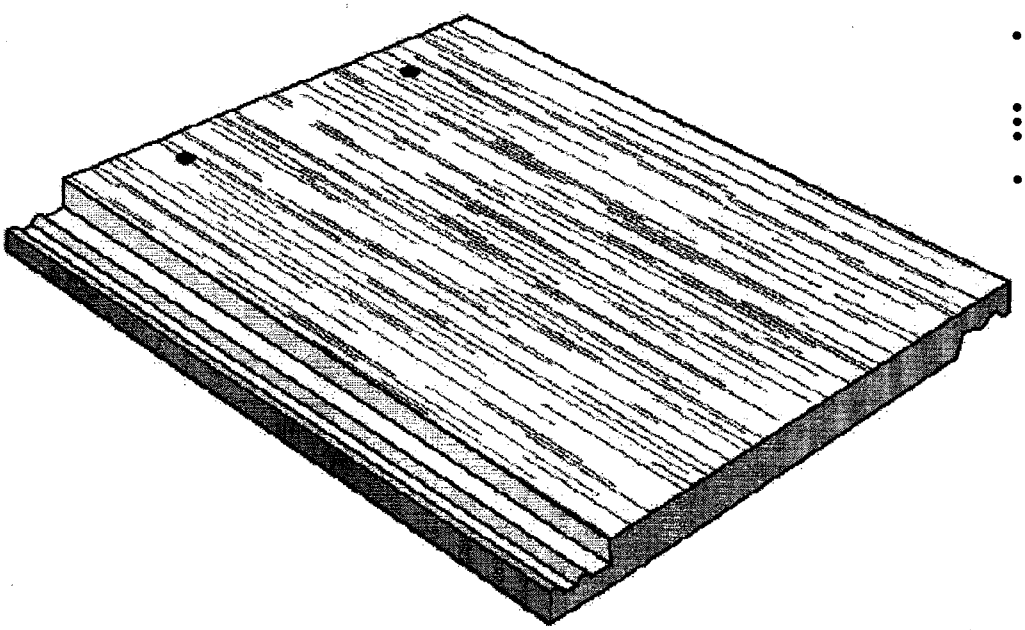


MONIERLIFETILE SAXONY 900 CONCRETE ROOF TILE (SLATE MODEL)

PROFILE DRAWING



MONIERLIFETILE SAXONY 900 CONCRETE ROOF TILE (SPLIT SHAKE MODEL)



MONIERLIFETILE SAXONY 900 CONCRETE ROOF TILE (SHAKE MODEL)

END OF THIS ACCEPTANCE

MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

The Dow Chemical Company
1605 Joseph Drive
200 Larkin Center
Midland, MI 48674

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 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: Tile Bond-Roof Tile Adhesive

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 No. 06-0417.02 and consists of pages 1 through 9.
The submitted documentation was reviewed by Alex Tigera.

MIAMI-DADE COUNTY APPROVED

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub Category: 07320 Roof Tile Adhesive
Material: Polyurethane

SCOPE:

This approves **TILE BOND** as manufactured by **The Dow Chemical Company,** as described in this Notice of Acceptance, designed to comply with the High Velocity Hurricane Zone of the Florida Building Code. For the locations where the pressure requirements, as determined by applicable building code, do not exceed the design pressure values; as obtained by calculations in compliance with RAS 127, using **TILE-BOND**, and where the attachment calculations shall be done as an uplift based system.

PRODUCT DESCRIPTION:

Manufactured by Applicant	Dimensions	Product Description
Tile-Bond	Factory premixed canisters	Single component polyurethane foam roof tile adhesive

COMPONENTS OR PRODUCTS MANUFACTURED BY OTHERS:

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

TYPICAL PHYSICAL PROPERTIES:

Property	Test	Results
Density	ASTM D 1622	1.91 lbs./ft.^{3}
Compressive Strength	ASTM D 1621	10 PSI @ 10% deflection
Tensile Strength	ASTM D 1623	17.0 lbf @ 180°F, 65% RH for 90 days, concrete to concrete
Water Absorption	ASTM D 2842	3.96% absorbed by Volume
Moisture Vapor Transmission	ASTM E 96	2.67Perm / Inch
Dimensional Stability	ASTM D 2126	1.01% Volume Change @ -40°C., 2 weeks 10.44% Volume Change @70°C., 97% Humidity, 2 weeks

LIMITATIONS:

1. Fire classification is not part of this acceptance.
2. All approved products listed herein shall be labeled and shall bear the imprint or identifiable marking of the manufacturer's name or logo and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

MIAMI-DADE COUNTY APPROVED

3. TILE BOND shall solely be used with flat, low, medium, and high tile profiles.
4. Minimum underlayment shall be in compliance with the Roofing Application Standard RAS 120.
5. Roof Tile manufactures acquiring acceptance for the use of TILE-BOND roof tile adhesive with their tile assemblies shall test in accordance with RAS 101 with section 10.4 as modified herein.
6. $$F' = \frac{\left(\frac{F}{2}\right) - W}{MS}$$

INSTALLATION:

1. TILE BOND may used with any roof tile assembly having a current NOA that lists uplift resistance values with the use of TILE BOND.
2. TILE BOND 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 TILE BOND shall provide sufficient attachment resistance, expressed as an uplift based system, to meet or exceed the uplift resistance determined in compliance with Roofing Application Standards RAS 127. The adhesive attachment data is noted in the roof tile assembly NOA
3. TILE-BOND roof tile adhesive and its components shall be installed in accordance with Roofing Application Standard RAS 120, and The Dow Chemical Company TILE BOND Operating Instruction and Maintenance Booklet.
4. Installation must be by a Factory Trained 'Qualified Applicator' approved and licensed by The Dow Chemical Company.
5. Pressure treated wood filler block shall be required on all eave course of all tile profiles, except on two piece barrel tile
6. Tiles must be adhered in freshly applied adhesive. Tile must be set within 4 minutes after TILE BOND has been dispensed.
7. TILE BOND 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**	**Minimum patty Weight per tile (grams)**	**Contact Area (Square inches)**
Flat / Low Profile	#1	11.1	19.5
Medium Profile	#2	11.0	19.5
High Profile (Head) High Profile (Nose)	#3	22.0 11.0	39 19.5
Two Piece Barrel	#4	11.6	20

LABELING:

All TILE BOND containers shall comply with the Standard Conditions listed herein.

BUILDING PERMIT REQUIREMENTS:

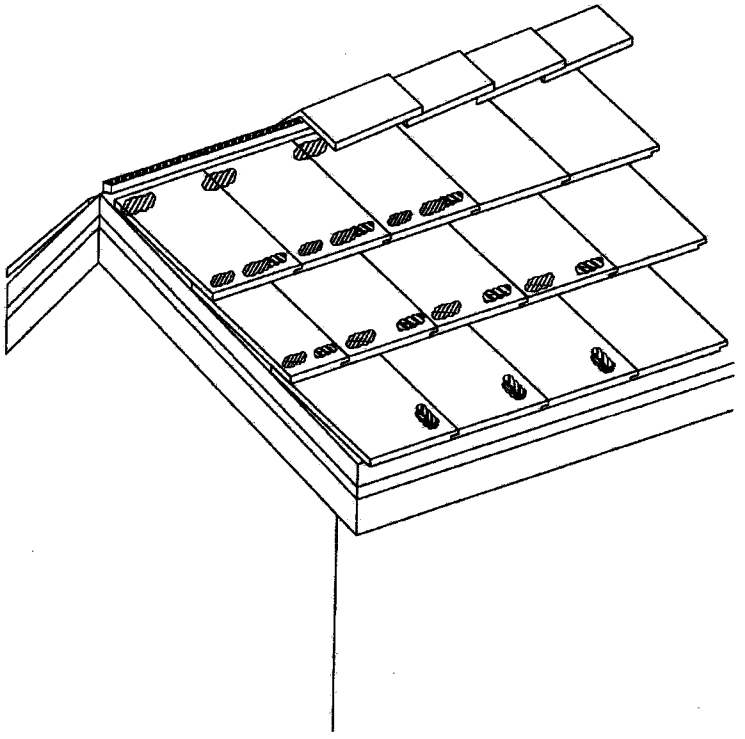
Any documentation required by the Building Official or applicable building code in order to properly evaluate the installation of this system

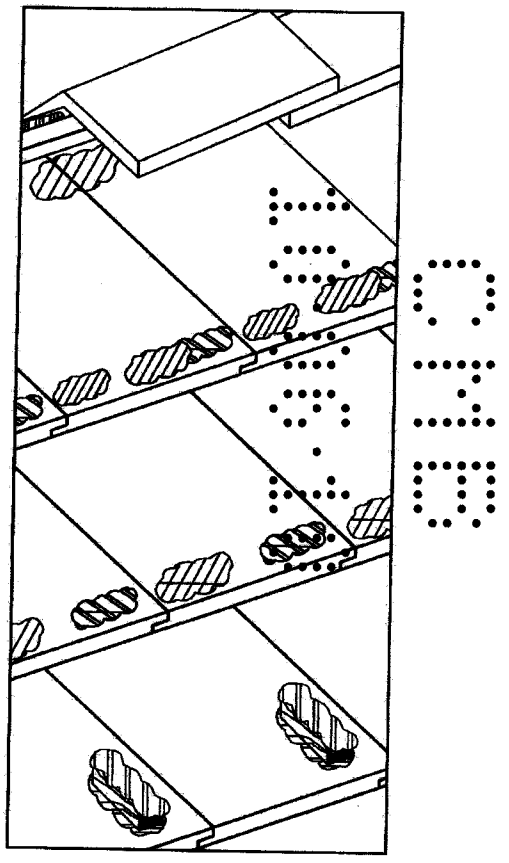
EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Center for Applied Engineering	25-7512-1	TAS 101	01/25/96
	25-7512-2	TAS 101	01/25/96
	25-7512-3	TAS 101	01/25/96
	25-77512-4	TAS 101	01/25/96
	25-7781	Physical Properties Testing	11/07/96
	257794-2	SSTD 11-93	10/03/96
South Research Institute	01.8366-014	ASTM E108-95a	February 1997
Walker Engineering, Inc.	N/A	Evaluation of Test on a Two-pad System	12/16/97
Celotex Corp. Testing Services	520111-1	TAS 101	12/28/98
	520111-2	TAS 101	12/28/98
	520111-3	TAS 101	12/28/98
	520111-4	TAS 101	12/28/98
	520111-7	TAS 101	12/28/98
	520111-8	TAS 101	12/28/98
	520111-12	TAS 101	12/28/98
	520135-3	TAS 101	02/01/99
	520135-4	TAS 101	02/01/99
	520135-5	TAS 101	02/01/99
IBA Consultants Inc.	4848-8	TAS 101	05/19/08
	4848-7	TAS 101	05/19/08
	4848-6	TAS 101	05/19/08
	4848-5	TAS 101	05/19/08
	4848-4	TAS 101	05/19/08
	4848-3	TAS 101	05/19/08
	4848-2	TAS 101	05/19/08
	4848-1	TAS 101	05/19/08

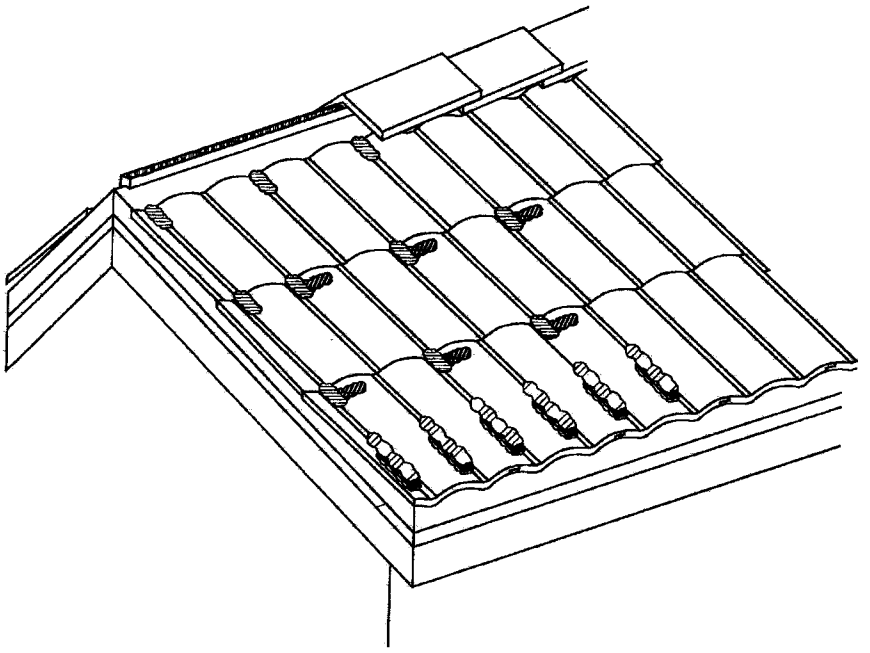
ADHESIVE PLACEMNT DETAIL

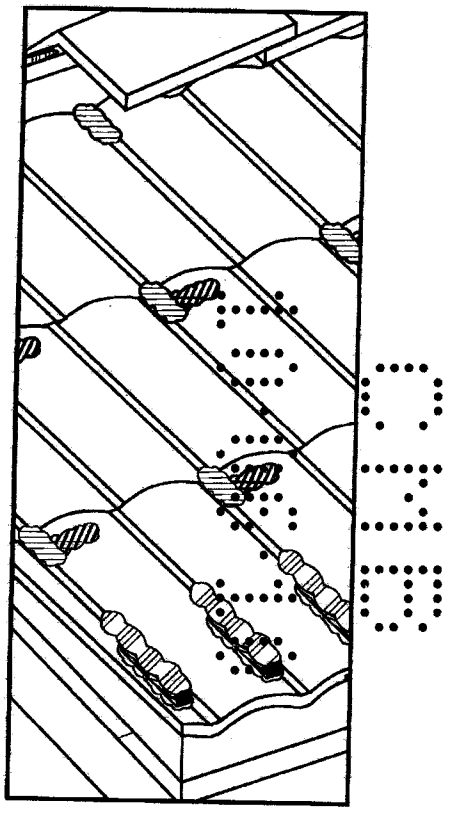
LOW (FLAT) PROFILE
DETAIL #1



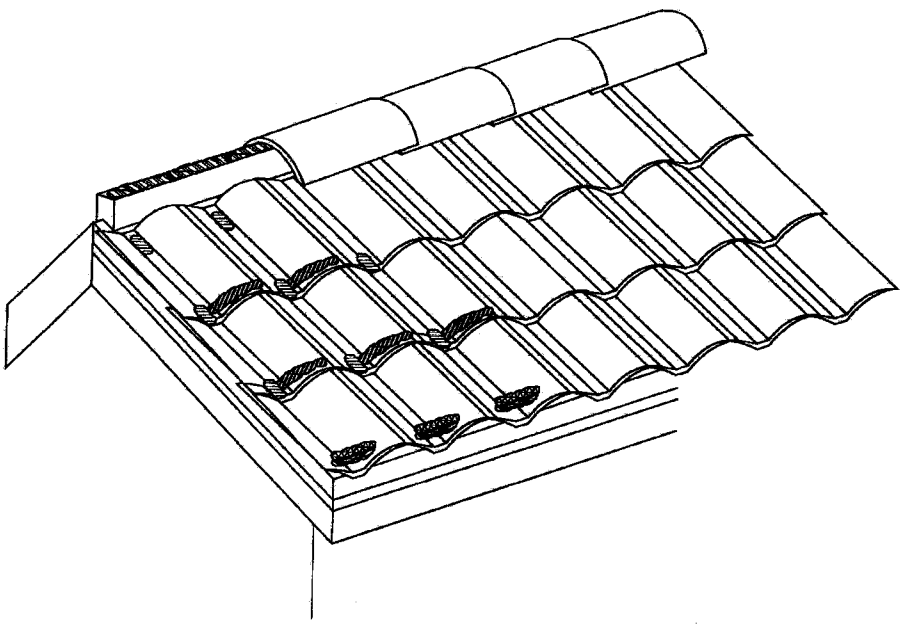


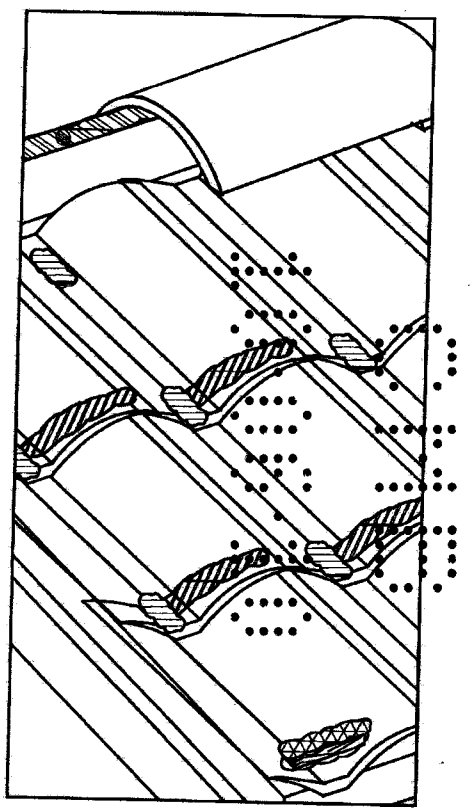
MEDIUM PROFILE
DETAIL #2



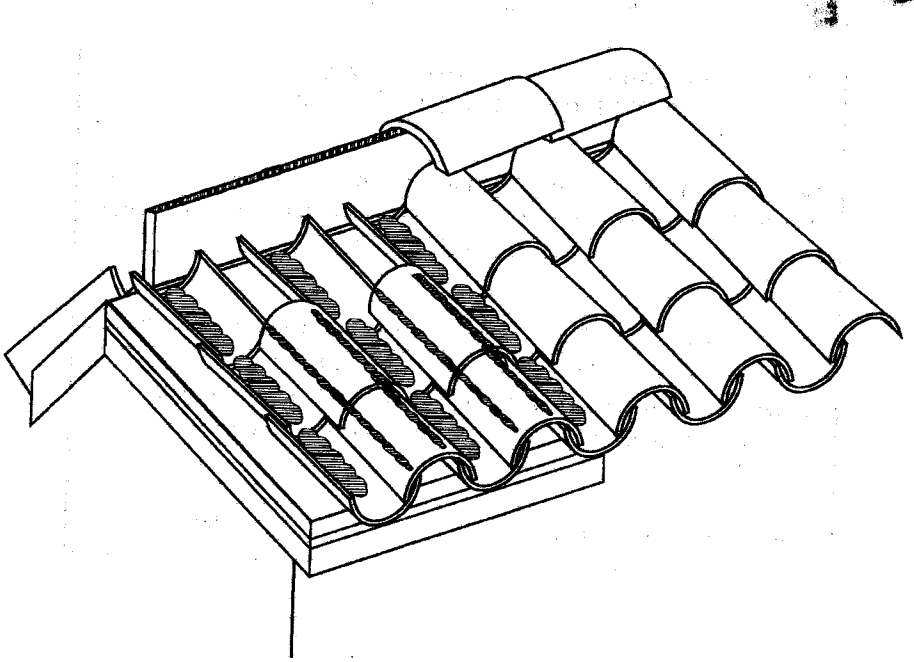


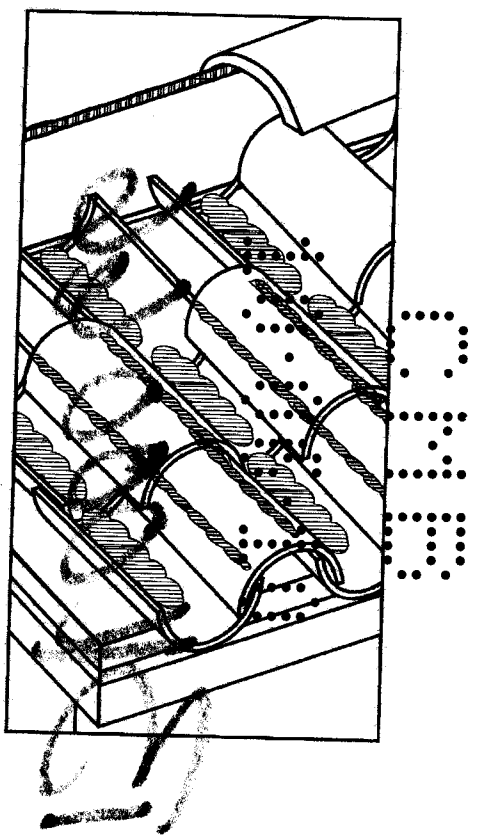
HIGH PROFILE
DETAIL #3





BARREL PROFILE
DETAIL #4





END OF THIS ACCEPTANCE

4774 N BAY Rd

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: ____ Date: 10.06.10

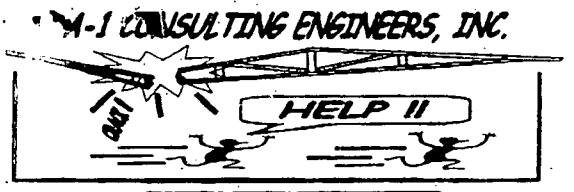
B1000 66

City of Miami Beach
Building Department
Roofing Permit
OFFICE COPY

Review Type	Initials	Date	Bond
Structural	AV	10/6/10	N/A
Zoning		10/6/10	N/A
Engineering			N/A
Public Works		10.06.10	

OFFICE COPY

UPLIFT



UPLIFT TEST EXPERTS

A-1 CONSULTING ENGINEERS, INC

ROOF STRUCTURES CONSULTING

ON SITE CONCENTRATED UPLIFT LOAD TESTING ROOF TILE IN ACCORDANCE WITH METRO-DADE BUILDING CODE COMPLIANCE TAS No. 106

SITE SPECIFIC INFORMATION

Owner's Name: _____ Permit #: B11000666 AM

Job Address: 4774 BAY RD. MIAMI BEACH, FL

Roofing Contractor: PRESTIGE ROOFING & ASSOCIATES, INC.

Type of Tile: MONIER FLAT ROOF TILES Date installed: 11/8/10

Approximate Roof Height: 15 feet Roof Pitch: 3/12

Type of Access to Roof: _____ Scaffolds _____ Ladder _____ Other

Approximate Square Footage of Roof: 40 ft 2

Required Testing Force: 35 lbs. Testing Equipment: F.G.E. 100

Date Tested: 11/10/10

TEST LOCATION	UPLIFT PULL TEST	TEST LOCATION	UPLIFT PULL TEST	TEST LOCATION	UPLIFT PULL TEST	TEST LOCATION	UPLIFT PULL TEST	TEST LOCATION	UPLIFT PULL TEST	TEST LOCATION	UPLIFT PULL TEST
1	PASS	26	PASS	51	PASS	76	PASS	101		126	
2		27		52		77		102		127	
3		28		53		78		103		128	
4		29		54		79		104		129	
5		30		55		80		105		130	
6		31		56		81		106		131	
7		32		57		82		107		132	
8		33		58		83		108		133	
9		34		59		84		109		134	
10		35		60		85		110		135	
11		36		61		86		111		136	
12		37		62		87		112		137	
13		38		63		88		113		138	
14		39		64		89		114		139	
15		40		65		90		115		140	
16		41		66		91		116		141	
17		42		67		92		117		142	
18		43		68		93	PASS	118		143	
19		44		69		94		119		144	
20		45		70		95		120		145	
21		46		71		96		121		146	
22		47		72		97		122		147	
23		48		73		98		123		148	
24		49		74		99		124		149	
25	PASS	50	PASS	75	PASS	100		125		150	

PASS
A-1 Consulting Engineers
Test: 93
Date: 11/10/10

IN ACCORDANCE WITH THE CRITERIA OF PROTOCOL PA 106, THIS ROOF ASSEMBLY HAS PASSED THE STATIC UPLIFT QUALITY CONTROL TEST. THIS TAS 106 TEST HAS BEEN PERFORMED IN FULL ACCORDANCE TO THE REQUIREMENTS OF DADE COUNTY, WITH NO DEVIATIONS.

THIS REPORT SUBMITTED BY:

José A. Martínez
P.E. # 031509
A-1 CONSULTING ENGINEERS, INC.

Lab. Certification # 07-0306.03 *Renews:* 01-1224.05

4383 S.W. 70th Ct, Miami, Florida 33155 • Telephone (305)740-9550 • Fax (305) 740-9550
ENGLISH: Cell (305) 609-6388 • SPANISH: Cell (305) 498-9804

A-1 CONSULTING ENGINEERS INC.
ROOF STUCTURES CONSULTING UPLIFT TEST EXPERTS
LAB. CERTIFICATION No.01-1224-5
4383 SW 70 CT, MIAMI FL. 33155
TEL.305-740-9550 FAX.305-740-9550

AN

Owner's name: _____ **Permit#:** B11000066

Job address: 4774 N BAY RD MIAMI BEACH FL.

Roofing contractor: PRESTIGE ROOFING & ASSOCIATES INC

Type of tile: MONIER FLAT TILE **Date installed:** _____

Approximate roof height: 15 **feet** **Roof pitch:** 3/12

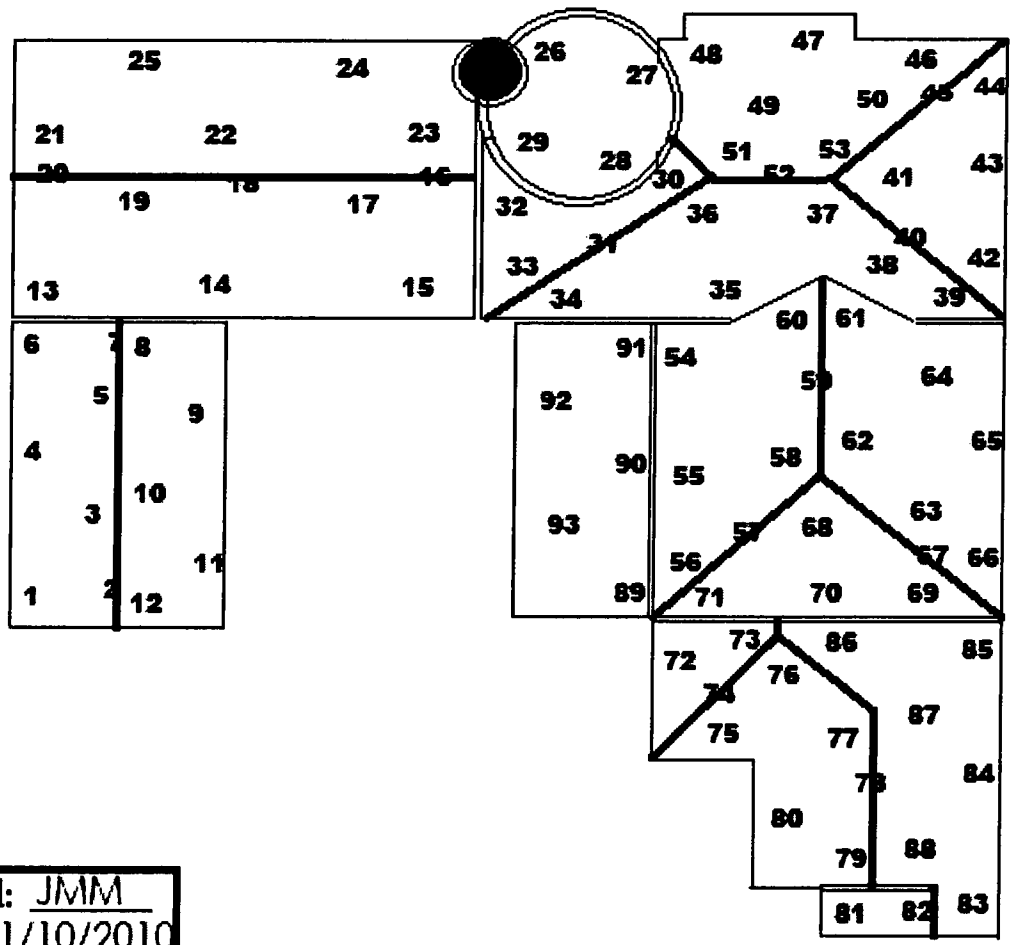
Tipe of access to roof: _____ **Scaffold:** _____ **Ladder:** _____ **Other:**

Approximate square footage of roof: 40 **ft2**

Required testing force: 35 lbs

Date tested: _____ **Number of tests:** 93

SKETCH OF ROOF



Reviced: JMM
Date: 11/10/2010

PERMIT NUMBER

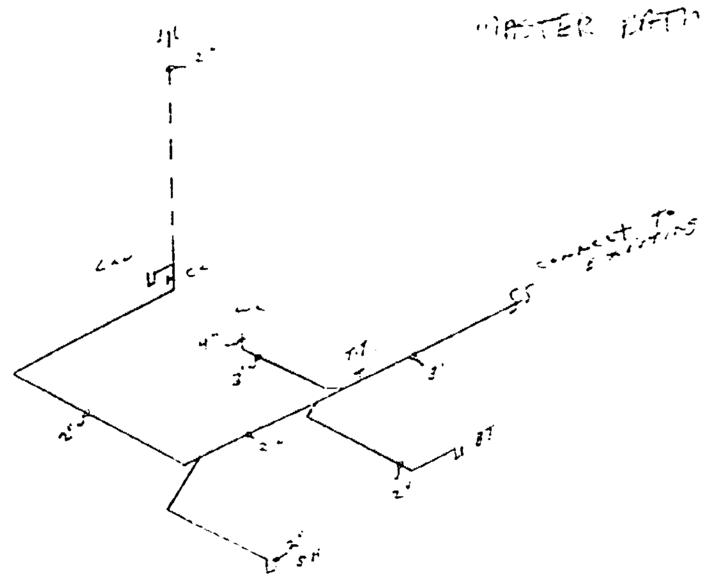
B 9603405

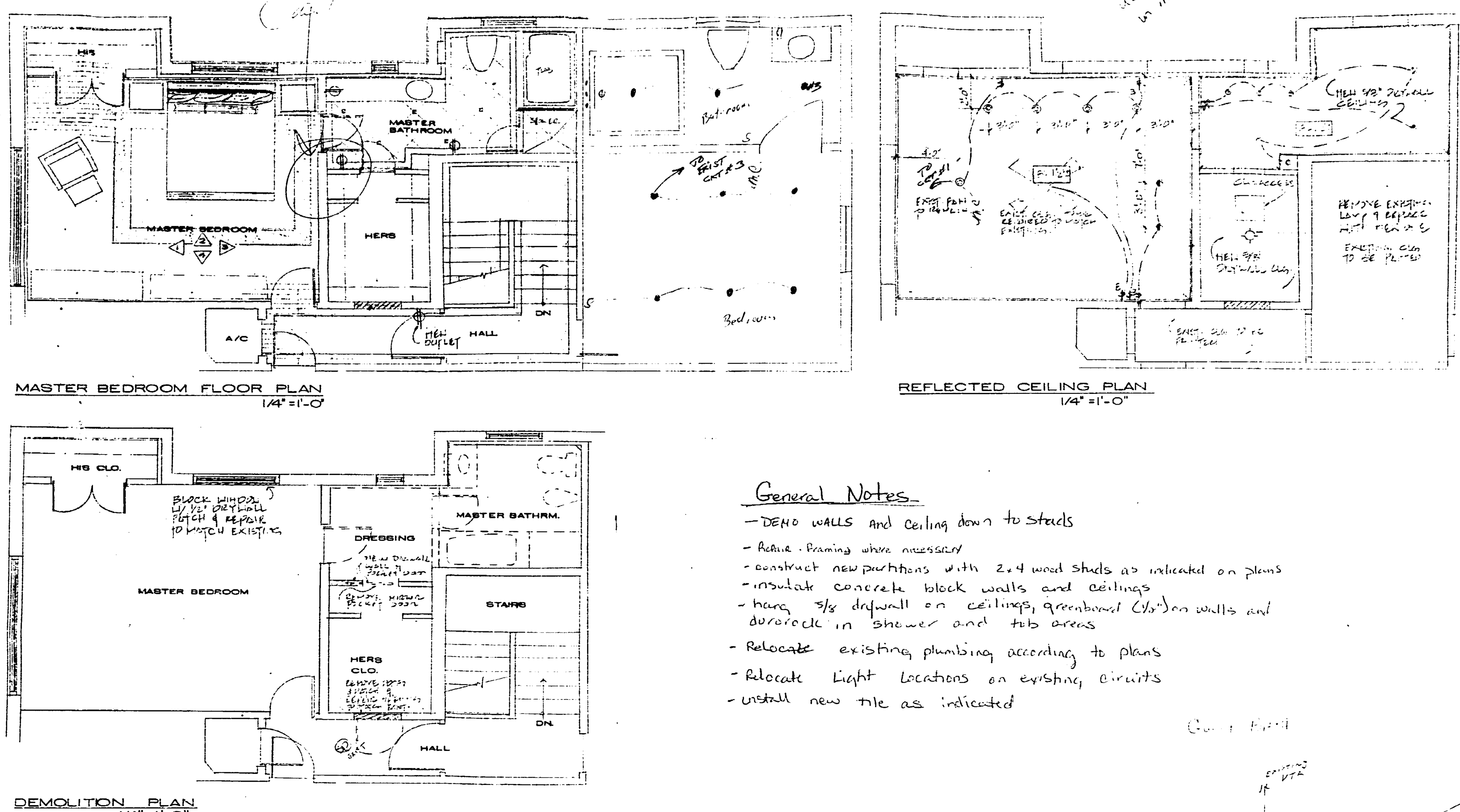
ADDRESS

24

24

B9603405





DEMOLITION PLAN
1/4" =1'-0"

DEMOLITION NOTES :

MASTER BEDROOM :
- REMOVE EXISTING CARPET & WOOD STRIPS.
- REMOVE [illegible]
  WOOD [illegible] & [illegible]
- PATCH & REPAIR TO RECEIVE NEW FINISHES

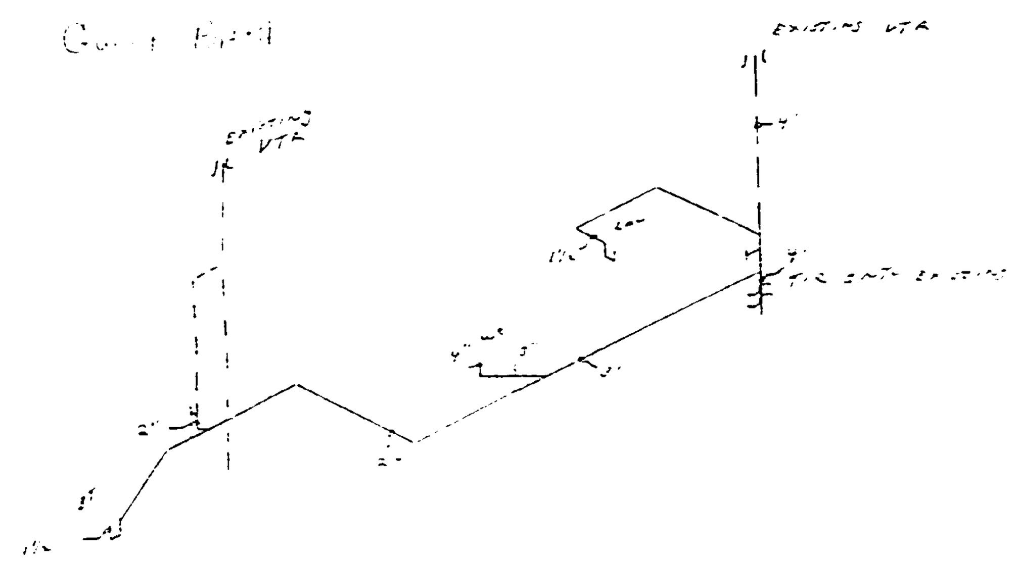
NOTE : WHEN EXISTING CONDITION CONFLICTS WITH DEMOLITION NOTES OR WITH NEW INSTALLATION [illegible] PRIOR TO CONTINUANCE OF DEMOLITION WORK.

WHERE EXISTING FINISHES ARE TO BE REMOVED CLEAN UP ALL SURFACES FOR NEW INSTALLATION.

MASTER CLOSET & BATHROOMS
- REMOVE MARBLE FLOOR & WALLS & PREPARE WALLS W/ NEW DUROROCK TO RECEIVE NEW MARBLE TILE.
- REMOVE CARPET AT CLOSET
- REMOVE TUB, SINK, CABINET, NICHE, TOILET, BIDET & ALL FITTINGS
- REMOVE ALL EXISTING LIGHT FIXTURES
- REMOVE EXISTING CEILING.
- REMOVE DOOR FROM HALL TO HER CLO PATCH & REPAIR TO MATCH EXISTING.
- REMOVE & RE-INSTALL BATHROOM/BEDROOM DOOR

General Notes

- DEMO WALLS And Ceiling down to studs
- Repair Framing where necessary
- construct new partitions with 2x4 wood studs as indicated on plans
- insulate concrete block walls and ceilings
- hang 5/8 drywall on ceilings, greenboard (1/2") on walls and durorock in shower and tub areas
- Relocate existing plumbing according to plans
- Relocate Light Locations on existing circuits
- install new tile as indicated



RECEIVED
SEP 1 8 1996
CITY OF MIAMI BEACH
BUILDING DEPARTMENT

OFFICE COPY
CITY OF MIAMI BEACH

APPROVED FOR PERMIT BY THE FOLLOWING:

BUILDING:	9/18/96
ZONING:	9/18/96
PLUMBING:	[illegible]
ELECTRICAL:	9/19/96
MECHANICAL:	
FIRE PREVENTION:	9/18/96
ENGINEERING:	9/19
PUBLIC WORKS:	
STRUCTURAL:	
ACCESSIBILITY:	
ELEVATOR:	

REVISIONS	BY

MARTIN & VANDEWALL, INC.
INTERIOR DESIGN - SPACE PLANNING
4701 LEJEUNE RD / STE. 328 CORAL GABLES, FL 33134
(305)448-9943 / FAX (305)448-0334

MR. & MRS. STUART SHEPPARD
4774 NORTH BAY ROAD
MIAMI BEACH, FLORIDA 33140

Date	8/26/96
Scale	
Drawn	
Job	
Sheet	ID-1
Of	Sheets

24

B9603405

MIAMIBEACH

Building Department
1700 Convention Center Drive, 2nd FL
Miami Beach, Florida 33139
305.673.7610 Fax: 305.673.7857

Work Permit BR1802821

Building - Residential

Status:	Issued	Date:	1/17/2019
Site Address:	4774 N N BAY RD	Applied:	12/10/2018
Parcel #:	0232220110030	Issued:	01/17/2019
		Expiration Date:	07/16/2019
Total Job Value:	$21,000.00	PIN:	81703
Contractor:	MORRISON CONTRACTORS INC CGC1518076 3000 SW 26TH TERRACE DANIA, FL	Owner:	MARJORY SHEPARD 4774 N BAY RD MIAMI BEACH, FL 33140

Description: 16X54' DOCK WITH NEW WOOD PILINGS, 7 NEW PILES

Inspector Area: Class Code:

Statement of Work	Quantity	Total Fee
Permit 20% Initial Charge - Planning	105.00	$50.00
Permit 20% Initial Charge - Building	357.00	$71.40
Florida Building Code - DBPR Fee	3.57	$3.57
Permit Fee - Building Department	285.60	$285.60
Training/Technology Fee - Building	357.00	$21.42
MDC Compliance Fee	21,000.00	$12.60
Permit Fee - Planning Department	55.00	$55.00
Sanitation Surcharges	21,000.00	$63.00
Florida Building Code Admin and Inspector Fund	357.00	$5.36
Training/Technology Fee - Planning	357.00	$21.42

Total of All Fees:	$589.37
Total of All Payments:	$589.37
Balance Due:	$0.00

MIAMIBEACH Permit Application

Applicant Information (Blue or Black Ink Only)

Office Use Only
Submittal Date:
Permit #: BP B02821

Parcel / Folio Number: 02-3222-011-0080

Building Department
1700 Convention Center Drive, 2nd Floor
Miami Beach, Florida 33139
Telephone: 305- 673-7610; Fax: 305-673-7857
http://www.miamibeachfl.gov/building/

Property Address: 4774 N. Bay Rd
Unit #:
Master Permit Number (If applicable):
Violation # (If applicable):

Permit Type (select one)
- ☑ Building
- ☐ Electrical
- ☐ Mechanical
- ☐ Plumbing
- ☐ Roofing
- ☐ Phased Permit
- ☐ Demo year built__
- ☐ Generator
- ☐ Temporary Structure
- ☐ Fire

Permit Request (select all that apply)
- ☑ New Permit
- ☐ Change of Contractor
- ☐ Change of Architect/Engineer
- ☐ LEED
- ☐ Permit Extension
- ☐ Permit Renewal
- ☐ Permit Revision
- ☐ Change of Use
- ☐ Private Provider
- ☐ City Project

Property Information (select one)
- ☐ Commercial
- ☐ Multi-Family Residential
- ☑ Residential: Single-Family Residential or Duplex

Occupancy Classification:

New Construction/Addition
Total Value:
Square Footage: 804
Value of Work: $ 21,000.00

Alteration/Reconfiguration of Space
$

Description of Work: 12' x 54' dock w/ 8 new wood pilings. 7 New Piles

Property Owner
Name: Marjory Sheppard
Address: 4774 N. Bay Rd. Suite:
City: Miami Beach State: FL. Zip Code: 33140
Driver's License/ State Identification Number:
E-Mail Address: Cambroad@bellsouth.net Daytime phone: 305-538-5683

Contractor
Name: Michael Morrison
Address: 3000 SW 9th Terr. Suite:
City: Dania Beach State: FL. Zip Code: 33312
State Identification Number/License: CGC151807
E-Mail Address: permits@morrisonbuilder.com Daytime phone: 954-583-8500

Architect
Name: License Number:
E-Mail Address: Daytime phone:

Structural Engineer
Name: License Number:
E-Mail Address Daytime phone:

Notice & Certification

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 a **separate permit** must be secured for **Electrical, Elevator, Fire, Mechanical, Plumbing, Signs, Wells, Pools, Furnaces, Boilers, Heaters, Tanks, Air Conditioners**, etc.

Owner's Affidavit: I certify that all the forgoing information is correct. Owner Certifies that the aforementioned Contractor has the authorization to perform the work as specified above.

Lessee's Affidavit: Lessee certifies that he has full consent and authorization from owner of subject property to perform the above mentioned work and to hire above captioned contractor.

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: the Environmental Division of Miami-Dade County; Permitting, Environment and Regulatory Affairs, Water & Sewer Department, Department of Environmental Protection, South Florida Water Management District, Miami-Dade County Impact Fee, water management districts, state agencies, and/or federal agencies.

Under penalties of perjury, I declare that to the best of my knowledge, the facts stated in this document are true. Any information found to be false may cause the revocation and/or denial of the permit and/or Certificate of Occupancy.

OWNER'S ELECTRONIC SUBMISSION STATEMENT: Under penalty of perjury, I declare that all the information contained in this permit application is true and correct.

☐ **Owner/Lessee for new permits** (Documentation establishing ownership may be requested).
☐ **Master Permit Contractor of Record** (For sub-permit / change of contractor).
☐ **TEMPORARY STRUCTURE PERMIT PACKAGE MUST BE SUBMITTED TWO (2) WEEKS IN ADVANCE.**

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT IS REQUIRED FOR ANY WORK WITH COST EXCEEDING $2,500.00.

Signature of Owner/Agent or GC (for Sub-permits): X Marjory Sheppard
PRINT NAME: Marjory Sheppard
STATE OF FLORIDA MIAMI-DADE COUNTY
Sworn to and subscribed before me this 12 day of June, 20 18
by Marjory Sheppard
Signature of Notary Public
Print Name: Cheryl Seager
(SEAL)
Personally known
or Produced Identification

CHERYL L SEAGER MY COMMISSION # FF984736 EXPIRES June 23, 2020 (407) 398-0153 FloridaNotaryService.com

Signature of Qualifier: Michael Morrison
PRINT NAME: Michael Morrison
STATE OF FLORIDA MIAMI-DADE COUNTY
Sworn to and subscribed before me this 8 day of June, 20 18
by Michael Morrison
Signature of Notary Public
Print Name: Cheryl Seager
(SEAL)
Personally known
or Produced Identification

CHERYL L SEAGER MY COMMISSION # FF984736 EXPIRES June 23, 2020 (407) 398-0153 FloridaNotaryService.com

OFFICE OF THE PROPERTY APPRAISER

Summary Report

Generated On : 12/5/2018

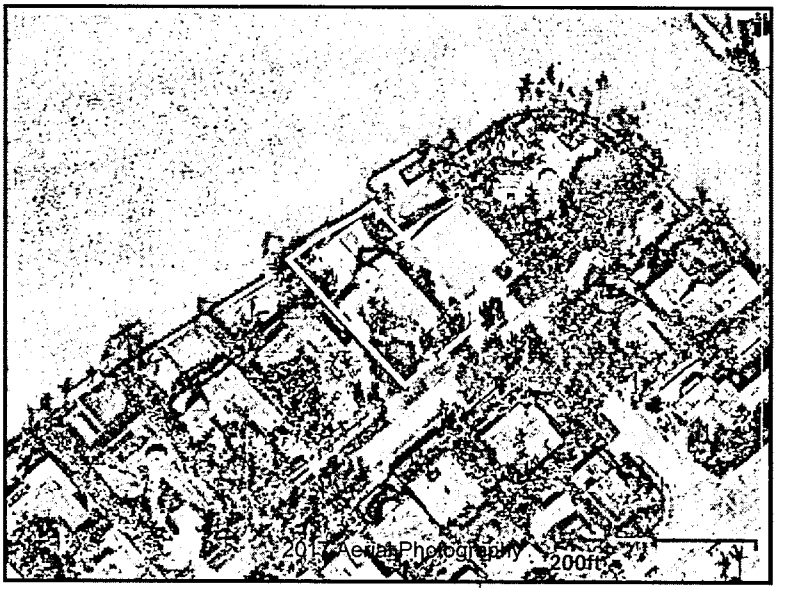
Property Information	
Folio:	02-3222-011-0030
Property Address:	4774 N BAY RD Miami Beach, FL 33140-2814
Owner	MARJORY SHEPPARD
Mailing Address	4774 N BAY RD MIAMI BEACH, FL 33140-2814
PA Primary Zone	0800 SGL FAMILY - 1701-1900 SQ
Primary Land Use	0101 RESIDENTIAL - SINGLE FAMILY : 1 UNIT
Beds / Baths / Half	6 / 4 / 0
Floors	2
Living Units	1
Actual Area	4,818 Sq.Ft
Living Area	3,922 Sq.Ft
Adjusted Area	4,044 Sq.Ft
Lot Size	14,365 Sq.Ft
Year Built	1933

Assessment Information			
Year	2018	2017	2016
Land Value	$6,967,025	$5,695,722	$5,695,722
Building Value	$424,620	$424,620	$424,620
XF Value	$35,485	$35,706	$35,927
Market Value	$7,427,130	$6,156,048	$6,156,269
Assessed Value	$876,861	$858,826	$841,162

Benefits Information				
Benefit	Type	2018	2017	2016
Save Our Homes Cap	Assessment Reduction	$6,550,269	$5,297,222	$5,315,107
Homestead	Exemption	$25,000	$25,000	$25,000
Second Homestead	Exemption	$25,000	$25,000	$25,000
Widow	Exemption	$500	$500	$500

Note: Not all benefits are applicable to all Taxable Values (i.e. County, School Board, City, Regional).

Short Legal Description
22-27 53 42 NAUTILUS SUB PB 8-95 SWLY85FT OF LOT 3 BLK 1 LOT SIZE 85.000 X 169 OR 11798-2794 0583 6



Taxable Value Information			
	2018	2017	2016
County			
Exemption Value	$50,500	$50,500	$50,500
Taxable Value	$826,361	$808,326	$790,662
School Board			
Exemption Value	$25,500	$25,500	$25,500
Taxable Value	$851,361	$833,326	$815,662
City			
Exemption Value	$50,500	$50,500	$50,500
Taxable Value	$826,361	$808,326	$790,662
Regional			
Exemption Value	$50,500	$50,500	$50,500
Taxable Value	$826,361	$808,326	$790,662

Sales Information			
Previous Sale	Price	OR Book-Page	Qualification Description
05/01/1983	$675,000	11798-2794	Other disqualified
08/01/1980	$320,000	10856-1087	Sales which are qualified

Version:

MIAMIBEACH BR1802821

Building Department
1700 Convention Center Drive, 2nd FL
Miami Beach, Florida 33139
Telephone: 305-673-7610
http://www.miamibeachfl.gov/city-hall/building/

NOTICE TO THE CITY OF MIAMI BEACH BUILDING DEPARTMENT OF EMPLOYMENT AS SPECIAL INSPECTOR UNDER THE FLORIDA BUILDING CODE (6th Edition, 2017)

I have been retained by: Marjory Sheppard to perform special inspector services at the 4774 N. Bay Road project on the below listed structures as of 11/27/18 (date). I am a registered architect or a professional engineer licensed in the State of Florida.

Process Number: _____ Master Permit (IF APPLICABLE): _____

- (●) Special Inspector for Pilings, CMDC Sect. 8-22
- ( ) Special Inspector for Lightweight Insulating Concrete, CMDC Sect. 8-22
- ( ) Special Inspector for Soil Compaction, CMDC Sect. 8-22
- ( ) Special Inspector for Precast Units and Attachments, CMDC Sect. 8-22
- ( ) Special Inspector for Reinforced Masonry, FBC 2122.2.4 & CMDC Sect. 8-22
- ( ) Special inspector for Steel Bolted & Welded Connections, CMDC Sect. 8-22
- ( ) Special Inspector for Trusses over 35 feet long or 6 feet high, CMDC Sect. 8-22
- ( ) Special Inspector for Curtain Wall, CMDC Sect. 8-22
- ( ) Special Inspector for Structural Glazing, CMDC Sect. 8-22
- ( ) Special Inspector for Composite Floor System, CMDCC Sect. 8-22
- ( ) Special Inspector for _____

NOTE: Only the marked boxes apply.

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

1. Mark Weber
2. _____
3. _____
4. _____

* Special inspectors utilizing authorized representatives shall insure the authorized representative is qualified by education or licensure to perform the duties assigned by the Special Inspector. The qualifications shall include: licensure as a professional engineer or architect; graduation from an engineering education program in civil or structural engineering; graduation from an architectural education program; successful completion of the NCEES Fundamentals Examination; or registration as a building inspector or general contractor.

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

I understand that all mandatory inspections, as required by the Florida Building Code, shall be requested by the permit holder and approved by the Building Department Inspectors. Inspections performed by the Special inspector hired by the Owner are in addition to the mandatory inspections performed by the Building Department. A Special Inspection Log for each building must be displayed in a convenient location on the site for inspection by the Building Department Inspectors. Further, upon completion of the work under each building permit, I will submit to the Building Department 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's Printed Name and Signature: _____

Address, Telephone, and E-mail: MW ENGINEERING, INC.
902 NE 1st Street, Suite 2
Ph: 754-333-0877
Pompano Beach, FL 33060

License Number: _____

MARK E. WEBER LICENSE No.53895 STATE OF FLORIDA PROFESSIONAL ENGINEER

Signed and Sealed: _____ Mark Weber, PE #53895 - Florida
MarkWeber@MwEngineering.net

NOV 26 2018
Date: _____

Accepted at the Building Department by: _____

VE 12.13.18
Date: _____

Revised May 2018

MW
ENGINEERING, INC.
Specialty Foundation, Marine & Aquatic Engineering and Inspection
902 NE 1st Street, Ste 2
Pompano Beach, FL 33060
Phone: 754-333-0877

WOOD DOCK CALCULATIONS

Per ASCE 7-10 and Florida Building Code 2017, 6th Ed.

Job Name	Marjory Sheppard - 4774 N Bay Road - Miami Beach - FL
Date:	12-19-18

MW Engineering, Inc.
CA #30702

DEC 19 2018

MARK E. WEBER
LICENSE
No.53895
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Mark E. Weber, PE 53895
Florida Registered Professional Engineer

Not Valid without Engineer's Seal and Original Signature
Seal valid for this page and Analysis Pages 1 thru 4

WIND LOADING ANALYSIS - Main Wind-Force Resisting System

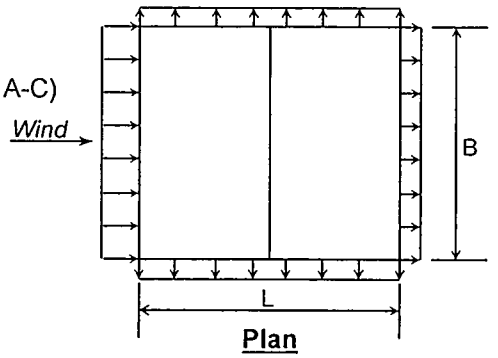
Per ASCE 7-10 Code for Enclosed or Partially Enclosed Buildings

Using Method 2: Analytical Procedure (Section 27 & 28) for Low-Rise Buildings

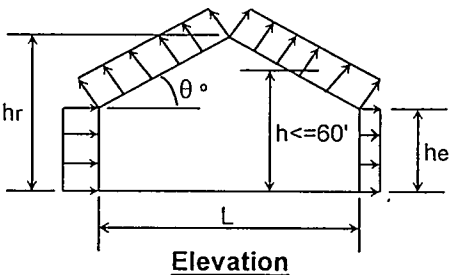
Job Name:		Date:	

Input Data:

Wind Speed, V =	175	mph (Wind Map, Figure 26.5-1A-C)
Bldg. Classification =	II	(Table 1.5-1 Risk Category)
Exposure Category =	D	(Sect. 26.7)
Ridge Height, hr =	10.00	ft. (hr >= he)
Eave Height, he =	10.00	ft. (he <= hr)
Building Width =	24.00	ft. (Normal to Building Ridge)
Building Length =	12.00	ft. (Parallel to Building Ridge)
Roof Type =	Monoslope	(Gable or Monoslope)
Topo. Factor, Kzt =	1.00	(Sect. 26.8 & Figure 26.8-1)
Direct. Factor, Kd =	0.85	(Table 26.6)
Enclosed? (Y/N)	N	(Sect. 26.2 & Table 26.11-1)
Hurricane Region?	N	



Plan



Elevation

Resulting Parameters and Coefficients:

Roof Angle, θ =	0.00	deg.
Mean Roof Ht., h =	10.00	ft. (h = he, for angle <=10 deg.)

Check Criteria for a Low-Rise Building:
1. Is h <= 60' ? Yes, O.K. 2. Is h <= Lesser of L or B? Yes, O.K.

External Pressure Coeff's., GCpf (Fig. 28.4-1):
(For values, see following wind load tabulations.)
Positive & Negative Internal Pressure Coefficients, GCpi (Table 26.11-1):

+GCpi Coef. =	0.55	(positive internal pressure)
-GCpi Coef. =	-0.55	(negative internal pressure)

If h < 15 then: Kh = 2.01*(15/zg)^(2/α) (Table 28.3-1)
If h >= 15 then: Kh = 2.01*(z/zg)^(2/α) (Table 28.3-1)

α =	11.50	(Table 26.9-1)
zg =	700	(Table 26.9-1)
Kh =	1.03	(Kh = Kz evaluated at z = h)

Velocity Pressure: qz = 0.00256*Kz*Kzt*Kd*V^2 (Sect. 28.3.2, Eq. 28.3-1) * 0.6 ASD Design
qh = 41.19 psf qh = 0.00256*Kh*Kzt*Kd*V^2*0.6 (qz evaluated at z = h)
Design Net External Wind Pressures (Sect. 28.4.1):
p = qh*[(GCpf) - (+/-GCpi)] (psf, Eq. 28.4-1)

Wall and Roof End Zone Widths 'a' and '2*a' (Fig. 28.4-1):

a =	3.00	ft.
2*a =	6.00	ft.

MWFRS Wind Load for Load Case A

Surface	GCpf	p = Net Pressures (psf)	
		(w/ +GCpi)	(w/ -GCpi)
Zone 1	0.40	-6.18	39.13
Zone 2	-0.69	**-51.08**	-5.77
Zone 3	-0.37	-37.90	7.41
Zone 4	-0.29	-34.60	10.71

*Note: Use roof angle θ = 0 degrees for Longitudinal Direction.

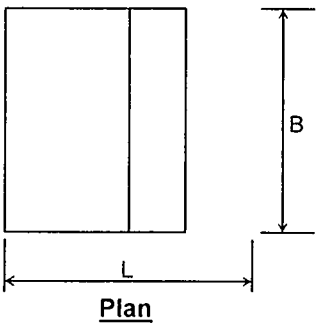
WIND LOADING ANALYSIS - Roof Components and Cladding

Per ASCE 7-10 Code for Bldgs. of Any Height with Gable Roof θ <= 45° or Monoslope Roof θ <= 3°
Using Part 1 & 3: Analytical Procedure (Section 30.4 & 30.6)

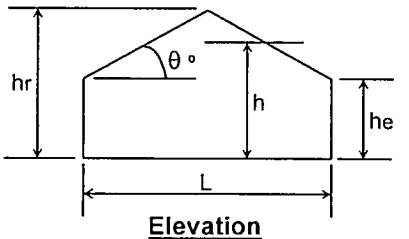
Job Name:		Date:	

Input Data:

Wind Speed, V =	175	mph (Wind Map, Figure 26.5-1A-C)
Bldg. Classification =	II	(Table 1.5-1 Risk Category)
Exposure Category =	D	(Sect. 26.7)
Ridge Height, hr =	10.00	ft. (hr >= he)
Eave Height, he =	10.00	ft. (he <= hr)
Width =	0.50	ft. (Normal to Building Ridge)
Length =	2.00	ft. (Parallel to Building Ridge)
Roof Type =	Gable	(Gable or Monoslope)
Topo. Factor, Kzt =	1.00	(Sect. 26.8 & Figure 26.8-1)
Direct. Factor, Kd =	0.85	(Table 26.6)
Enclosed? (Y/N)	N	(Sect. 28.6-1 & Figure 26.11-1)
Hurricane Region?	Y	
Component Name =	Decking	(Purlin, Joist, Decking, or Fastener)
Effective Area, Ae =	1	ft.^2 (Area Tributary to C&C)
Overhangs? (Y/N)	N	(if used, overhangs on all sides)



Plan



Elevation

Resulting Parameters and Coefficients:

Roof Angle, θ =	0.00	deg.
Mean Roof Ht., h =	10.00	ft. (h = he, for roof angle <=10 deg.)

Roof External Pressure Coefficients, GCp:

GCp Zone 1-3 Pos. =	0.30	(Fig. 30.4-2A, 30.4-2B, and 30.4-2C)
GCp Zone 1 Neg. =	-1.00	(Fig. 30.4-2A, 30.4-2B, and 30.4-2C)
GCp Zone 2 Neg. =	-1.80	(Fig. 30.4-2A, 30.4-2B, and 30.4-2C)
GCp Zone 3 Neg. =	-2.80	(Fig. 30.4-2A, 30.4-2B, and 30.4-2C)

Positive & Negative Internal Pressure Coefficients, GCpi (Figure 26.11-1):

+GCpi Coef. =	0.55	(positive internal pressure)
-GCpi Coef. =	-0.55	(negative internal pressure)

If z <= 15 then: Kz = 2.01*(15/zg)^(2/α) , If z > 15 then: Kz = 2.01*(z/zg)^(2/α) (Table 30.3-1)

α =	11.50	(Table 26.9-1)
zg =	700	(Table 26.9-1)
Kh =	1.03	(Kh = Kz evaluated at z = h)

Velocity Pressure: qz = 0.00256*Kz*Kzt*Kd*V^2 (Sect. 30.3.2, Eq. 30.3-1) * 0.6 ASD Design

qh = 41.19 psf qh = 0.00256*Kh*Kzt*Kd*V^2*0.6 (qz evaluated at z = h)

Design Net External Wind Pressures (Sect. 30.4 & 30.6):
For h <= 60 ft.: p = qh*((GCp) - (+/-GCpi)) (psf)
For h > 60 ft.: p = q*(GCp) - qi*(+/-GCpi) (psf)
where: q = qh for roof
qi = qh for roof (conservatively assumed per Sect. 30.6)

Wind Load Tabulation for Roof Components & Cladding

Component		Kh	qh (psf)	p = Net Design Pressures (psf)			
				Zone 1,2,3 (+)	Zone 1 (-)	**Zone 2 (-)**	Zone 3 (-)
DECKING		1.03	41.19	35.01	-63.85	**-96.80**	-138.00

Introduction
The following calculations are for a wood dock system.The substringers and joists were calculated using a 40 psf live load; private dock, with a 5 psf dead load for joists and decking. Substringer attachment, and uplift on joists and decking was also reviewed.

Stringer and Substringer Connection Calculations:

Substringers

Maximum loading at piling longest span

W1:	14.3		Tributary Width (ft) (Substringer Length)
L1:	7.5		Tributary Length (ft) (Stringer Length)
Load:	2413.1	lbs	45 psf x W x 1/2 L

Connection wood piling to substringer:

Allowable	1625	lbs	3/4" Dia Bolt double shear per to grain (from Database)
Qty:	2		
Allowable	3250	lbs >	2413 lbs OK

Uplift Calculations:

WIND LOADING ANALYSIS

175	Wind Speed, V
II	Bldg. Classification
D	Exposure Category

Dock:	51.08	psf	Main Wind-Force Resisting System
Deck:	96.80	psf	Roof Components and Cladding

W:	2.00	Stringer Spacing (ft)
L:	7.5	Tributary Length (ft)
Wd:	0.5	Dock Board Width (ft)

Uplift: = (Dock psf - 2.5 psf dead) * L/2

Uplift:	383.09	lbs	(Max. Uplift Each Joist)
Allowable:	600	lbs	for Simpson H2 5A strap w/ 5 8d at each end
Qty:	1		
Allowable:	600	lbs >	383.1 lbs OK

Strap each stringer to substringer with (2) 2.5A strap

Connection to decking:

Uplift: = Deck psf * Joist Spacing * Dock Board Width

Uplift:	96.80	lbs	
Allowable:	163	lbs	per inch embedment for #10 screws (from Database)
Allowable:	489	lbs	for (2) #10 x 2.5" deck screws with 1.5" embedment
Allowable:	489	lbs >	96.80 lbs OK

Substringer Stress Calculations:

Size: 3x12 Substringer

SOUTHERN PINE NO. 1 DENSE

Shear allowable:	175	psi	
Substringer Span:	14.3	ft	
Board Width:	2.5	in	
Board Heigth:	11.25	in	
Gross Area:	28.13	in^2	
Shear Area:	18.76	in^2	(gross area * .667)

SPAN

L1:	9.33		Tributary Width (ft) (Substringer Length)
Max. Loading:	1769.1	lbs	(from Connection Calculations)
Max. Shear:	=Max. Loading/1 SubStringer/Shear Area		(worst case 15'x15' framing)
Max. Shear:	94.3	psi <	175 psi allowable OK

Bending allowable:	1200	psi	No. 1 Dense
Section Mod. (S):	52.73	in^3	
Mmax:	= wL^2/8		

Reactions: 1769.1 lbs
L: = 2 * reactions / span = dist. Load
379.2 lbs / ft
Mmax: 4126.3 ft-lbs
Max. Bending: = 12*M / S

Max. Bending:	939.0	psi <	1200	psi allowable OK

Stringer Stress Calculations:

Size: 3x8 Stringer
SOUTHERN PINE NO. 1 DENSE
Shear allowable: 175 psi
Span: 7.5 ft
Board Width: 2.5 in
Board Heigth: 7.5 in
Gross Area: 18.75 in^2
Shear Area: 12.51 in^2 (gross area * .667)
Max. Loading: 383.1 lbs (from Max. Uplift per Joist Calculations)
Max. Shear: = Max. Loading / Shear Area

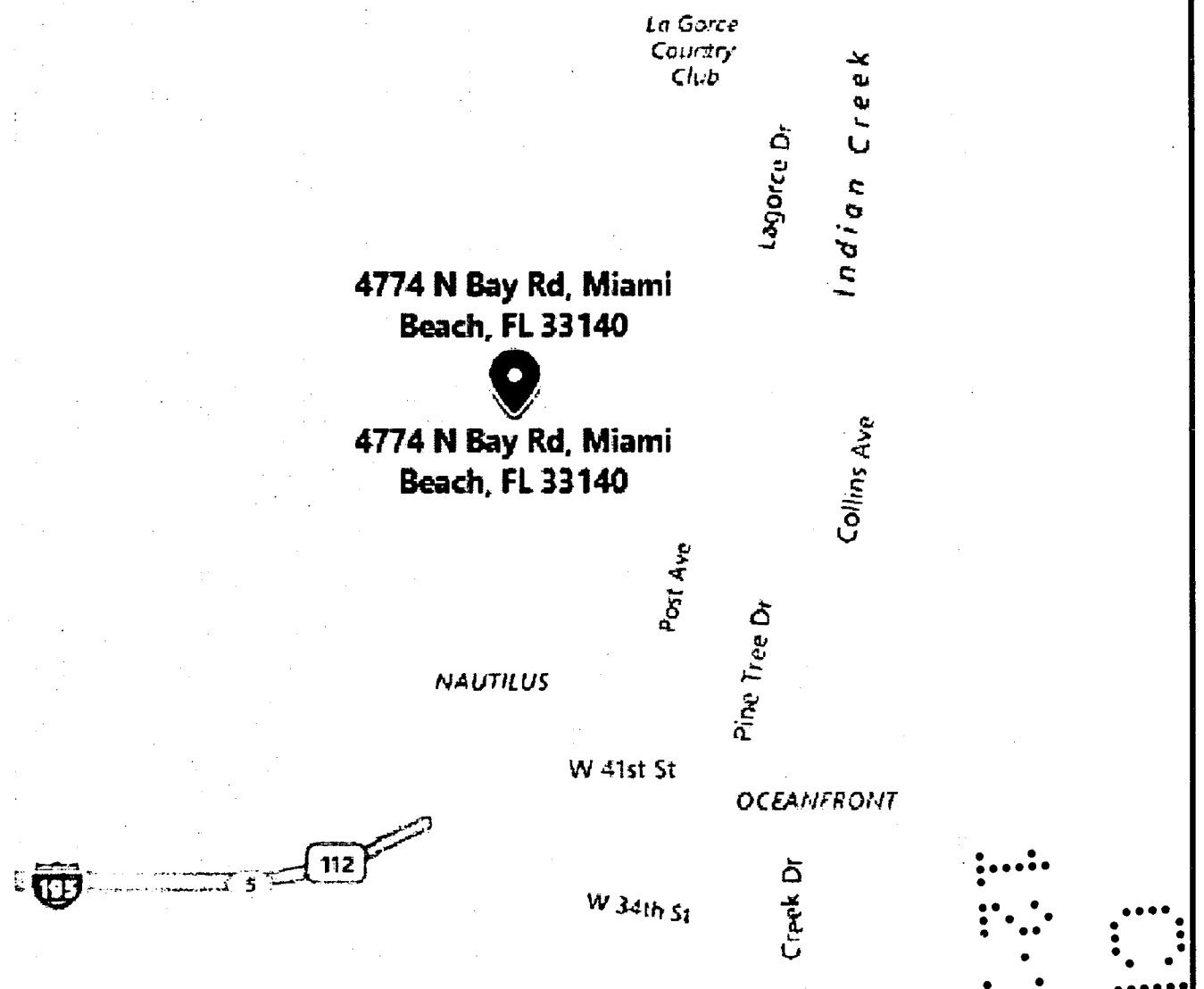
Max. Shear:	30.6	psi <	175	psi allowable OK

Bending allowable: 1200 psi No. 1 Dense

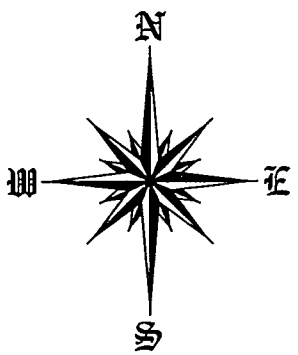
Section Mod. (S): 21.9 in^3
Mmax: = wL^2/8
Reactions: 383.1 lbs
L: = 2 * reactions / span = dist. Load
102.2 lbs / ft
Mmax: 718.3 ft-lbs
Max. Bending: = 12*M / S

Max. Bending:	393.6	psi <	1200	psi allowable OK

Model No.	Ga	Fasteners			DF/SP Allowable Loads			Uplift with 8dx1½ Nails (160)	SPF/HF Allowable Loads			Uplift with 8dx1½ Nails (160)
		To Rafters/ Truss	To Plates	To Studs	Uplift (160)	Lateral (160) F_1	Lateral (160) F_2		Uplift (160)	Lateral (160) F_1	Lateral (160) F_2	
H1	18	6-8dx1½	4-8d	—	585	485	165	455	400	415	140	370
H2A	18	5-8dx1½	2-8dx1½	5-8dx1½	575	130	55	—	495	130	55	—
H2ASS	18	5-SS8D	2-SS8D	5-SS8D	400	130	55	400	345	130	55	345
H2.5A	18	5-8d	5-8d	—	600	110	110	575	535	110	110	495
H2.5ASS	18	5-SS8d	5-SS8d	—	440	75	70	365	380	75	70	310
H2.5T	18	5-8d	5-8d	—	545	135	145	425	545	135	145	425
H3	18	4-8d	4-8d	—	455	125	160	415	320	105	140	290
H4	20	4-8d	4-8d	—	360	165	160	360	235	140	135	235
H5	18	4-8d	4-8d	—	455	115	200	455	265	100	170	265
H6	16	—	8-8d	8-8d	950	—	—	—	820	—	—	—
H7Z	16	4-8d	2-8dx1½	8-8d	985	400	—	—	845	345	—	—
H8	18	5-10dx1½	5-10dx1½	—	745	75	—	630	565	75	—	510
H10A Sloped	18	9-10dx1½	9-10dx1½	—	855	590	285	—	760	505	285	—
H10A	18	9-10dx1½	9-10dx1½	—	1140[7]	590	285	—	1015	505	285	—
H10ASS	18	9-SSN10	9-SSN10	—	970	565	170	—	835	485	170	—
H10AR	18	9-10dx1½	9-10dx1½	—	1050	490	285	—	905	420	285	—
H10S[9,10]	18	8-8dx1½	8-8dx1½[10]	8-8d	1010	660	215	550	870	570	185	475
H10A-2	18	9-10dx1½	9-10dx1½	—	1245	815	260	—	1070	700	225	—
H10-2	18	6-10d	6-10d	—	760	455	395	—	655	390	340	—



Location Map



PREPARED FOR :

Morrison Contractors
3000 SW 26 Terrace
Dania Beach, Florida 33312
(954) 583-8500 Fax: (954) 766-4505

Project:
Dock Replacement
Marjory Sheppard
4774 N Bay Road
Miami Beach, FL 33140

BCI80884

ERNEST W. DUNCAN P.S.M. 5182

521 SE 5TH COURT
POMPANO BEACH, FL. 33060

PHONE: (754) 264-2166
FAX: (954) 827-0535

BOUNDARY SURVEY

JOB NO. 07-03-18

PROPERTY ADDRESS: 4774 N. BAY ROAD MIAMI BEACH, FL 33140

Scale: 1" = 30'

LEGAL DESCRIPTION:

THE SOUTHWESTERLY 85' OF LOT 3, BLOCK 1 OF "NAUTILUS SUBDIVISION". ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 8, PAGE 95, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

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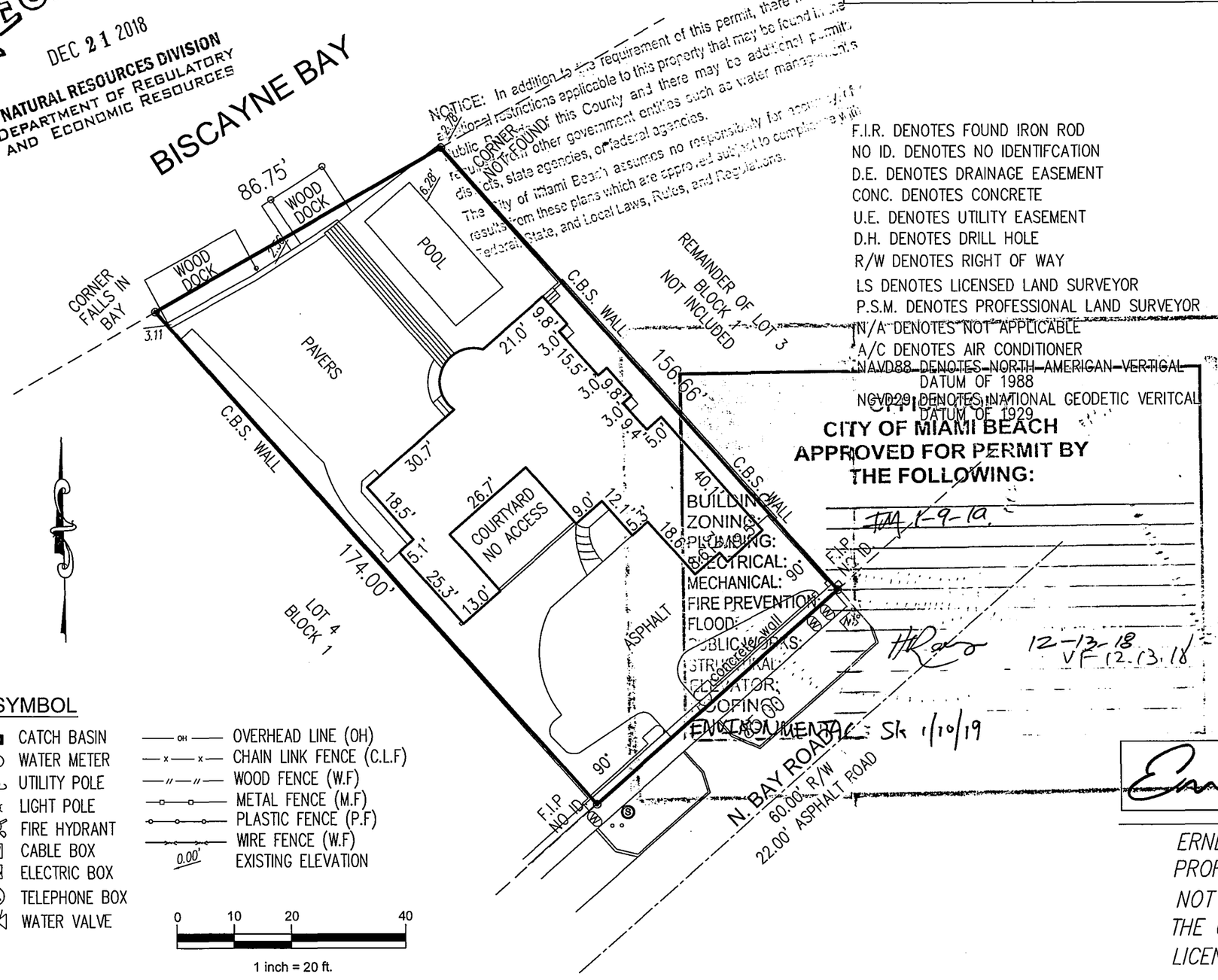
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES



CITY OF MIAMI BEACH
APPROVED FOR PERMIT BY
THE FOLLOWING:

JJA 1-9-19
12-13-18
VF 12.13.18
SK 1/10/19

F.I.R. DENOTES FOUND IRON ROD
NO ID. DENOTES NO IDENTIFCATION
D.E. DENOTES DRAINAGE EASEMENT
CONC. DENOTES CONCRETE
U.E. DENOTES UTILITY EASEMENT
D.H. DENOTES DRILL HOLE
R/W DENOTES RIGHT OF WAY
LS DENOTES LICENSED LAND SURVEYOR
P.S.M. DENOTES PROFESSIONAL LAND SURVEYOR
N/A DENOTES NOT APPLICABLE
A/C DENOTES AIR CONDITIONER
NAVD88 DENOTES NORTH AMERICAN VERTICAL DATUM OF 1988
NGVD29 DENOTES NATIONAL GEODETIC VERITCAL DATUM OF 1929

SURVEYORS NOTES:

1. ANGLES SHOWN HEREON ARE REFERENCED TO THE RECORD PLAT AND ARE AS MEASURED.
2. BENCHMARK REFERENCE: DADE COUNTY BENCHMARK "D-132-R" ELEVATION = 6.68 NAVD88. ELEVATIONS SHOWN ARE REFERENCED TO NAVD88.
3. MINIMUM LINEAR ACCURACY OBTAINED: 1 FOOT IN 7,500 FEET AS REQUIRED FOR A SUBURBAN SURVEY
4. NO TITLE INFORMATION WAS SUPPLIED OR REVIEWED IN THE PREPARATION OF THIS SURVEY WITH THE EXCEPTION OF THE LEGAL DESCRIPTION.
5. NO ATTEMPT WAS MADE TO LOCATE ANY UNDERGROUND IMPROVEMENTS, OVERHEAD UTILITIES, (POWERLINES, ETC) FOUNDATIONS OR WETLANDS.
6. EASEMENTS SHOWN HEREON ARE PER THE PLAT.
7. SURVEYOR HAS MADE NO RESEARCH OF THE PUBLIC RECORDS. THERE MAY BE ADDITIONAL RESTRICTIONS NOT SHOWN HEREON THAT MAY BE FOUND IN THE PUBLIC RECORDS.

FLOOD ZONE: AE
BASE FLOOD ELEV.= 8.0'
FEMA MAP # 12086C 0309 L
DATE OF FIRM: 09/11/2009

CERTIFIED TO:
MARJORY SHEPPARD

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DATE OF SURVEY 5/7/17

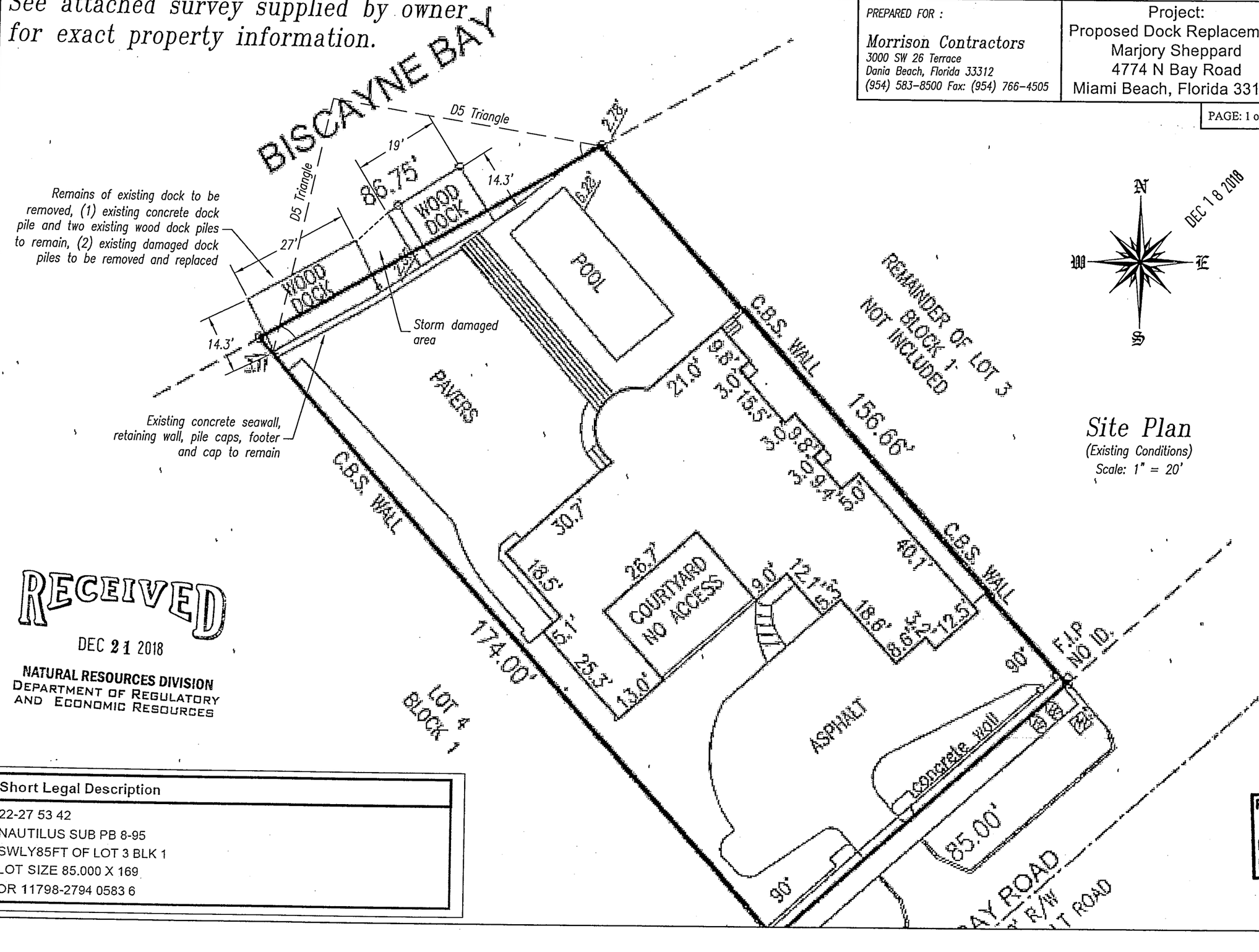
SYMBOL

- CATCH BASIN
- WATER METER
- UTILITY POLE
- LIGHT POLE
- FIRE HYDRANT
- CABLE BOX
- ELECTRIC BOX
- TELEPHONE BOX
- WATER VALVE
- OVERHEAD LINE (OH)
- CHAIN LINK FENCE (C.L.F)
- WOOD FENCE (W.F)
- METAL FENCE (M.F)
- PLASTIC FENCE (P.F)
- WIRE FENCE (W.F)
- 0.00' EXISTING ELEVATION

0 10 20 40
1 inch = 20 ft.

ERNEST W. DUNCAN, P.S.M. STATE OF FLORIDA
PROFESSIONAL SURVEYOR AND MAPPER No. LS 5182
NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

See attached survey supplied by owner for exact property information.



PREPARED FOR :	Project:
Morrison Contractors *3000 SW 26 Terrace* *Dania Beach, Florida 33312* *(954) 583-8500 Fax: (954) 766-4505*	Proposed Dock Replacement Marjory Sheppard 4774 N Bay Road Miami Beach, Florida 33140

PAGE: 1 of 5

MARK E. WEBER, P.E.
LICENSE #53895

MW ENGINEERING, INC
902 NE 1 Street Suite #2
Pompano Beach, Florida 33060
Ofc: 754-333-0877
WWW.MwEngineering.net

MARK E. WEBER LICENSE No.53895 STATE OF FLORIDA PROFESSIONAL ENGINEER

DEC 18 2018

SCALE:	240
DATE:	09.18.2018
DRAWN BY:	WRT
CHECKED BY:	MW
Morrison\Docks\4774 SP 240	

Site Plan

(Existing Conditions)
Scale: 1" = 20'

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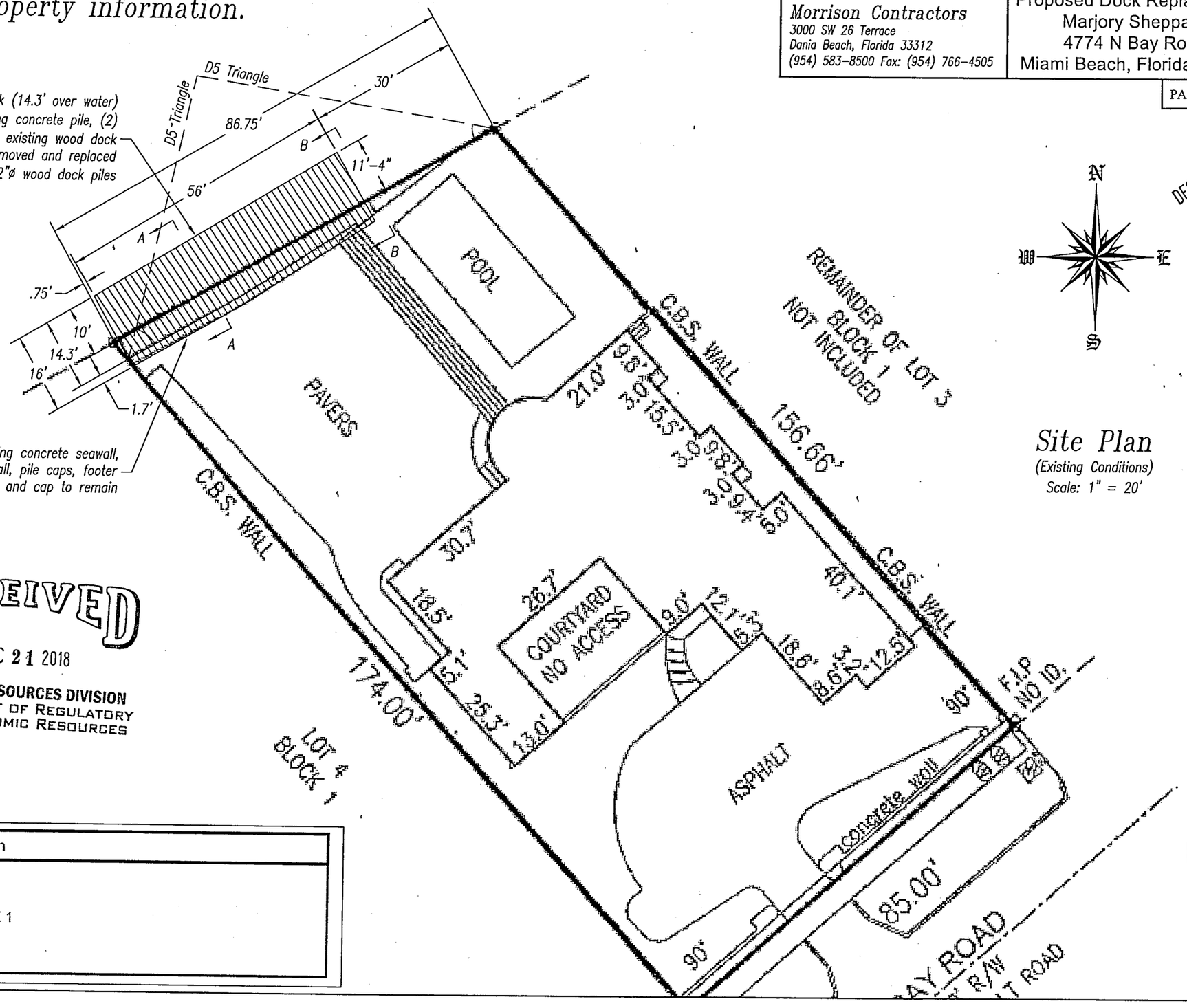
Short Legal Description
22-27 53 42
NAUTILUS SUB PB 8-95
SWLY85FT OF LOT 3 BLK 1
LOT SIZE 85.000 X 169
OR 11798-2794 0583 6

CLI 2018-0267
RER - NATURAL RESOURCES DIVISION
PRELIMINARY APPROVAL
NAME
DATE 1/7/19

See attached survey supplied by owner for exact property information.



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Site Plan

(Existing Conditions)
Scale: 1" = 20'

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PAGE: 2 of 5

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SCALE:	240
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Morrison\Docks\4774 SP 240	

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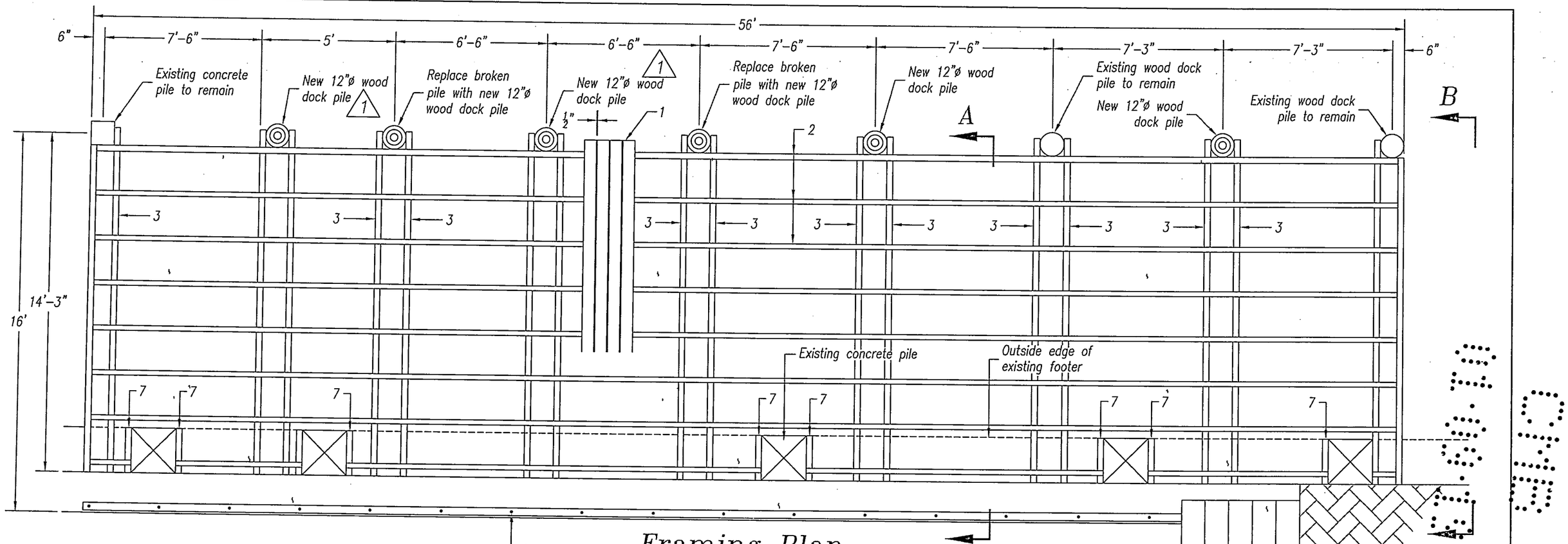
DATE 1/7/19



Framing Plan

Scale 1/4"= 1'-0"

1. 2x6 P.T. wood decking with (2) #10x3" stainless steel deck screws per stringer, ½" spacing to minimize bottom shading
2. 3x8 Stringers @ 24" max spacing with Simpson hurricane strap H2.5A (FL10456) with (5) 8d nails each leg into substringers
3. 3x12 Substringers with (2) ¾"ø thru bolt @ pile and drop hanger
4. 3x12 Substringer with (2) ¾"ø thru bolts at new 12"ø wood dock piles and (2) ¾"ø wedge anchors into existing concrete pile, minimum embedment = 4"
5. 4x12 drop hanger with (2) ¾"ø wedge anchors into existing concrete seawall wall, minimum embedment = 4"
6. 4x4 sleeper with ½"ø wedge anchors @ 36" on center into existing cap, minimum embedment = 4"
7. 3x12 Substringer with (2) ⅝"ø wedge anchors into existing concrete pile, minimum embedment = 4"

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REVISIONS		
1	12.17.18	Added Piles

PAGE: 3 of 5

SCALE:	48
DATE:	06.13.2018
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CHECKED BY:	MW
4774 FP 48	

PREPARED FOR :

Morrison Contractors
3000 SW 26 Terrace
Dania Beach, Florida 33312
(954) 583-8500 Fax: (954) 766-4505

Project:
Dock Replacement
Marjory Sheppard
4774 N Bay Road
Miami Beach, FL 33140

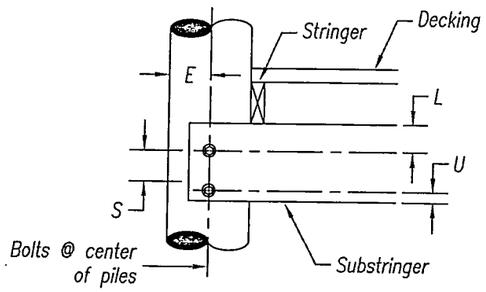
MARK E. WEBER
LICENSE
No.53895
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

MARK WEBER, P.E.
LICENSE #53895 | CA 30702

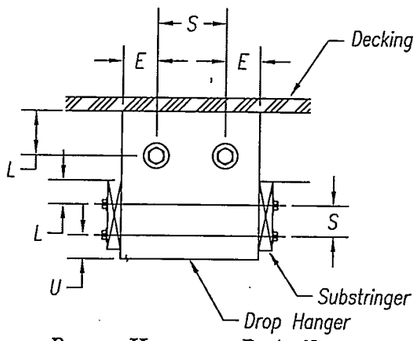
MW ENGINEERING, INC
902 NE 1 Street Suite #2
Pompano Beach, Florida 33060
Ofc: 754-333-0877
WWW.MwEngineering.net

1	12.17.18	Added Piles

REVISIONS



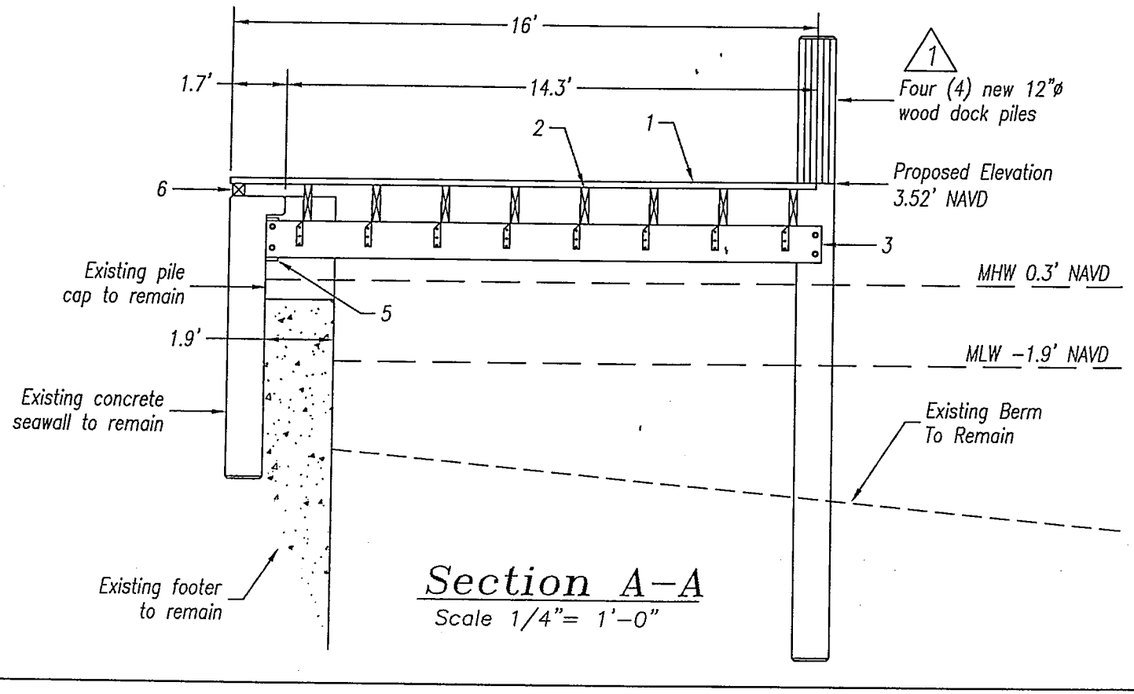
Pile Connection Detail



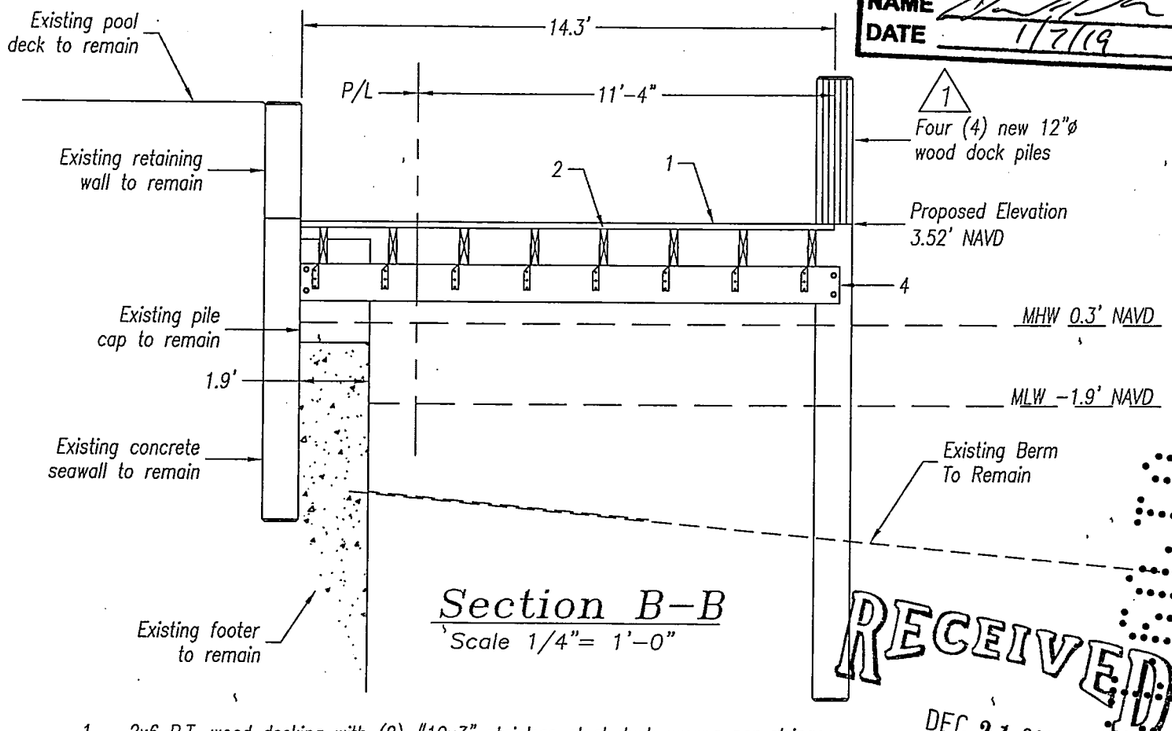
Drop Hanger Detail

Bolt Diameter	1/2"	5/8"	3/4"	1"
E = End Dist = 4D	2	2 1/2"	3	4
L = Edge Dist, Loaded = 4D	2	2 1/2"	3	4
S = Spacing = 4D	2	2 1/2"	3	4
U = End Dist, Unloaded = 1.5D	3/4	15/16	1 1/8	1 1/2

NDS Bolt Spacing Requirements



Section A-A
Scale 1/4"= 1'-0"



Section B-B
Scale 1/4"= 1'-0"

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DATE 1/7/19

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1. 2x6 P.T. wood decking with (2) #10x3" stainless steel deck screws per stringer, 1/2" spacing to minimize bottom shading
2. 3x8 Stringers @ 24" max spacing with Simpson hurricane strap H2.5A (FL10456) with (5) 8d nails each leg into substringers
3. 3x12 Substringers with (2) 3/4"ø thru bolt @ pile and drop hanger
4. 3x12 Substringer with (2) 3/4"ø thru bolts at new 12"ø wood dock piles and (2) 3/4"ø wedge anchors into existing concrete pile, minimum embedment = 4"
5. 4x12 drop hanger with (2) 3/4"ø wedge anchors into existing concrete seawall wall, minimum embedment = 4"
6. 4x4 sleeper with 1/2"ø wedge anchors @ 36" on center into existing cap, minimum embedment = 4"
7. 3x12 Substringer with (2) 5/8"ø wedge anchors into existing concrete pile, minimum embedment = 4"

SCALE:	48
DATE:	06.13.2018
DRAWN BY:	RDL
CHECKED BY:	MW
4774 FP 48	

MARK E. WEBER LICENSE No.53895 STATE OF FLORIDA PROFESSIONAL ENGINEER

MARK WEBER, P.E.
LICENSE #53895 | CA 30702

MW ENGINEERING, INC
902 NE 1 Street Suite #2
Pompano Beach, Florida 33060
Ofc: 754-333-0877
WWW.MwEngineering.net

PREPARED FOR :

Morrison Contractors
3000 SW 26 Terrace
Dania Beach, Florida 33312
(954) 583-8500 Fax: (954) 766-4505

Project:
Dock Replacement
Marjory Sheppard
4774 N Bay Road
Miami Beach, FL 33140

GENERAL NOTES:

1. Construction to follow the Florida Building Code 6th Edition (2017) and amendments as applicable and all Local, State and Federal Laws.
2. Licensed contractor shall verify the existing conditions prior to the commencement of the work, Any conflicts or omissions between existing conditions or the various elements of the working drawing shall be brought to the attention of the Engineer prior to the commencement of the work. The Licensed Contractor and all subcontractors are responsible for all lines, elevations, and measurements in connection with their work.
3. Do not scale drawings for dimensions.
4. Any deviation ord/or substitution from the information provided herein shall be submitted to the Engineer for approval prior to commencement of work.
5. All unanticipated or unforeseen demolition and/or new construction conditions which require deviation from the plans and notes herein shall be reported to the Engineer prior to commencement of work.
6. All new work and/or materials shall conform to all requirements of each administrative body having jurisdiction in each pertaining circumstance.
7. All new materials and/or patchwork shall be provided to match existing materials and/or adjoining work where practical except as specifically noted herein.
8. Licensed Contractor to shall use all possible care to protect all existing materials, surfaces, and furnishings from damage during all phases of construction.
9. Licensed Contractor to verify location of existing utilities prior to commencing work.
10. The Licensed contractor to install and remove all shoring and bracing as required for the proper execution of the work.
11. Licensed Contractor to obtain all permits as necessary from all Local, State, and Federal agencies.
12. Turbidity barriers to be marked with site contractor's company name using permanent markings no smaller than 3 inches in height on the top of the barrier.

PILE DRIVING:

1. Pile driving operations shall be observed by a special inspector, including test pile installation to determine the approximate length required to meet design capacity.
2. Piles shall be driven using an approved cushion block consisting of material so arranged so as to provide the transmission of the hammer energy.
3. Piles shall be driven to required capacity a minimum of 8' into berm or refusal.
4. Piles shall be driven with a drop hammer or gravity hammer provided the hammer shall weight no less than 3,000 pounds, and the fall of the hammer shall not exceed 6'.
5. Piles shall be driven with a variation of not more than $\frac{1}{4}$ inch per foot from the vertical, or from the batter line indicated, with a maximum variation of the head of the pile from the position shown on the plans of not more than three inches.
6. Where piling must penetrate strata offering high resistance to driving, the structural engineer of records or special inspector may require that the piles be set in pre-drilled or punched holes. The piles shall reach their final penetration by driving.

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DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES

CONCRETE NOTES:

1. Concrete shall conform to ACI 318 (latest edition), and shall be regular weight, sulfate resistant, with a design strength of 4000 psi at 28 days with a maximum water-cementitious materials ratio, by weight aggregate concrete of 0.40.
2. Owner shall employ and pay for testing services from an independent testing laboratory for concrete sampling and testing in accordance with ASTM.
3. Licensed contractor is responsible for the adequacy of forms and shoring and for safe practice in their use and removal.
4. Concrete cover shall be 3" unless otherwise noted on the approved drawings.
5. Reinforcing steel shall be in conformance with the latest version of ASTM A615 Grade 60 specifications. All reinforcement shall be placed in accordance with ACI 315 and ACI Manual of Standard Practice.
6. Splices in reinforcing bars shall be not be less than 48 bar diameters and reinforcing shall be continuous around all corners and change in direction. Continuity shall be provided at corners or changes in direction by bending the longitudinal and steel around the corner 48 bar diameters.
7. For repair of defective, cracked or loose concrete areas must be cut out, the rebar must be cleaned, coated with zinc and repaired with at least 3" of expoxy-concrete mix or gunnite concrete with sulfate-resistant cement.

PILE NOTE:

1. Wood piles to be 2.5 lb. CCA treated in accordance with AWPA standard C18.
2. Wood piles shall be driven to a minimum bearing capacity of 10 tons.
3. Wood piles shall be a minimum diameter of 10", Miami Dade County requires minimum diameter of 12".
4. Concrete piles shall attain 6000 psi compressive strength in 28 days.
5. Concrete piles shall be reinforced with four - $\frac{7}{16}$"ø lo-lax strands, 270 kips, and #5 spiral ties.
6. Concrete piles shall be 12"x12" square, minimum length of 20'.
7. Concrete piles shall be driven to a minimum bearing capacity of 10 tons.

WOOD DOCK NOTES:

1. All materials to be pressure treated pine unless otherwise noted.
2. All frame work materials to be grade #2.
3. All Decking materials to be grade #1 unless otherwise noted.
4. All hardware to be Stainless Steel unless otherwise noted.

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RER - NATURAL RESOURCES DIVISION
PRELIMINARY APPROVAL
NAME
DATE 11/30/18

NOV 26 2018

SCALE:	48
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PAGE: 5 of 5

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4774 N BAY RD
BR1802824

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: _____ Date: 12-13-18