



DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
9900 SOUTHWEST 107th AVE, SUITE 203  
MIAMI, FLORIDA 33176

REPLY TO  
ATTENTION OF

Regulatory Division  
South Permits Branch  
Miami Section  
SAJ-2013-01694 (NW-AG)

SEP 19 2013

City of Miami  
3500 Pan American Drive  
Miami, FL 33133

Dear Permittee,

Your application for a Department of the Army (DA) permit received on 13 June 2013, has been assigned number SAJ-2013-01694 (NW-AG). A review of the information and drawings provided shows the project is for the replacement of approximately 240 linear feet of existing bulkhead with 151 linear feet of new sheet pile bulkhead located landward of the existing coral rock wall and 68 linear feet (approximately 95 cubic yards) of riprap along a portion of the shoreline where the existing coral rock wall has failed. The newly proposed riprap will only extend to the location of the existing failed wall that will be removed and will be in line with the new adjacent sheet pile wall sections. The project will also include the construction of an 8 foot wide by 30 foot long kayak ramp. The new kayak ramp will not require any excavation in tidal waters (see attached site plans). This activity meets the terms and conditions for authorization under Nationwide Permit 13/36, as published in the 29 March 2012, issue of the Federal Register (72 FR 11092).

The project is located at Manatee Bend Park at 457 NE 77<sup>th</sup> Street Rd.; in Section 7, Township 53 south, Range 42 east, Miami, Miami -Dade County, Florida.

**Approximate Central Coordinates:** Latitude: 25.846655°  
Longitude: -80.186974°

Your project, as depicted on the enclosed drawings, date-stamped by the U.S. Army Corps of Engineers (Corps) on **September 19, 2013 (9 pages)**, is authorized by the NWP Number 13/36. **In addition, project specific conditions are enclosed. This verification is valid until the NWP is modified, reissued, or revoked prior to March 18, 2017.** It is incumbent upon you to remain informed of changes to the NWPs. We will issue a public notice when the NWPs are issued. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. Please access the U.S. Army Corps of Engineers' (Corps) Jacksonville District's Regulatory webpage to access web links to view the Final Nationwide Permits, Federal Register Vol. 77, dated February 21,

2012, specifically pages 10270 – 10290, the Corrections to the Final Nationwide Permits, Federal Register 77, March 19, 2012, and the List of Regional Conditions. The website address is as follows: <http://www.saj.usace.army.mil/Divisions/Regulatory/sourcebook.htm>.

Please be aware this web address is case sensitive and should be entered as it appears above. Once there you will need to click on “Nationwide Permits.” These files contain the description of the NWP authorization, the NWP general conditions, and the regional conditions, which apply specifically to this verification for NWP 13/36. Additionally, enclosed is a list of the six General Conditions, which apply to all DA authorizations. You must comply with all of the special and general conditions and any project specific condition of this authorization or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verification may be required.

**The following special conditions are included with this verification:**

1. **Reporting Address:** All reports, documentation and correspondence required by the conditions of this permit shall be submitted to the following address: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Section, 9900 Southwest 107<sup>th</sup> Avenue, Suite 203, Miami, Florida 33176. The Permittee shall reference this permit number, SAJ-2013-01694 (NW-AG), on all submittals.

2. **Commencement Notification:** Within ten (10) days from the date of initiating the authorized work, the Permittee shall provide to the Corps a written notification of the date of commencement of work authorized by this permit.

3. **Self-Certification:** Within sixty (60) days of completion of the authorized work or at the expiration of the construction authorization of this permit, whichever occurs first, the Permittee shall complete the attached “Self-Certification Statement of Compliance” form (attached) and submit to the Corps. In the event that the completed work deviates, in any manner, from the authorized work, the Permittee shall describe, on the Self-Certification Form, the deviations between the work authorized by the permit and the work as constructed. Please note that the description of any deviations on the Self-Certification Form does not constitute approval of any deviations by the Corps.

4. **Posting of Permit:** The Permittee shall ensure that all contractors, sub-contractors, and entities associated with the implementation of the project review, understand, and comply with the approved plans and special conditions made part of this permit. Complete copies of the permit and approved plans shall be available at the construction site at all times. Failure to comply with the approved plans and permit special conditions may subject the Permittee to enforcement action.

**5. Regulatory Agency Changes:** Should any other regulatory agency require changes to the work authorized or obligated by this permit, the Permittee is advised that a modification of this permit is required prior to initiation of those changes. It is the Permittee's responsibility to request a modification from the Miami Regulatory Office.

**6. Manatee Conditions:**

a) The Permittee shall comply with the "Standard Manatee Conditions for In-Water Work – 2011," attached to this permit.

b) No later than 30 days after slip occupancy, the permittee shall install permanent manatee awareness signs. The permittee agrees to replace the signs in the event the signs fade, become damaged or outdated, and maintain these signs for the life of the facility. The on-site locations and types of signs must be acceptable to the FWC, which can be contacted at: [ImperiledSpecies@myfwc.com](mailto:ImperiledSpecies@myfwc.com). The types of signs, sign vendors, and the process for FWC approval can be found at: [http://www.myfwc.com/media/415211/Manatee EducationalSign.pdf](http://www.myfwc.com/media/415211/Manatee_EducationalSign.pdf)

c) The permittee shall install timber bollards in locations designed to impede the launching ability of motorized vessels from the kayak launch ramp.

**7. Sea Turtle and Smalltooth Sawfish Conditions:** The Permittee agrees to abide by the enclosed standard construction conditions designed to protect the Smalltooth sawfish and sea turtles (National Marine Fisheries, 2006).

**8. Turbidity Barriers:** Prior to the initiation of any of the work authorized by this permit the Permittee shall install floating turbidity barriers with weighted skirts that extend to within one foot of the bottom around all work areas that are in, or adjacent to, surface waters. The turbidity barriers shall remain in place and be maintained until the authorized work has been completed and all erodible materials have been stabilized.

**9. Water Quality Certification and FWC Licensing:** This letter of authorization does not obviate the necessity to obtain any other Federal, State, or local permits, which may be required. Prior to the initiation of any construction, projects qualifying for this Nationwide permit must qualify for an exemption under section 403.813(1), F.S. or 373.406, F.S., or otherwise be authorized by the applicable permit required under Part IV of Chapter 373, F.S., by the Department of Environmental Protection, a water management district under section 373.069, F.S., or a local government with delegated authority under section 373.441, F.S., and receive Water Quality Certification (WQC) and applicable Coastal Zone Consistency Concurrence (CZCC) or waiver thereto, as well as any authorizations required for the use of state-owned submerged lands under Chapter 253, F.S., and, as applicable, Chapter 258, F.S. You should check State-permitting requirements with the Florida Department of Environmental Protection or the appropriate water management district.

This letter of authorization does not include conditions that would prevent the 'take' of a state-listed fish or wildlife species. These species are protected under sec. 379.411, Florida Statutes, and listed under Rule 68A-27, Florida Administrative Code. With regard to fish and wildlife species designated as species of special concern or threatened by the State of Florida, you are responsible for coordinating directly with the Florida Fish and Wildlife Conservation Commission (FWC). You can visit the FWC license and permitting webpage (<http://www.myfwc.com/license/wildlife/>) for more information, including a list of those fish and wildlife species designated as species of special concern or threatened. The Florida Natural Areas Inventory (<http://www.fnai.org/>) also maintains updated lists, by county, of documented occurrences of those species.

**10. Cultural Resources/Historic Properties:**

- a. No structure or work shall adversely affect, impact, or disturb properties listed in the National Register of Historic Places (NRHP) or those eligible for inclusion in the NRHP.
- b. If during the ground disturbing activities and construction work within the permit area, there are archaeological/cultural materials encountered which were not the subject of a previous cultural resources assessment survey (and which shall include, but not be limited to: pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement), the Permittee shall immediately stop all work in the vicinity and notify the Corps. The Corps shall then notify the Florida State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) to assess the significance of the discovery and devise appropriate actions.
- c. A cultural resources assessment may be required of the permit area, if deemed necessary by the SHPO, THPO(s), or Corps, in accordance with 36 CFR 800 or 33 CFR 325, Appendix C (5). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume on non-federal lands without written authorization from the SHPO and the Corps.
- d. In the unlikely event that unmarked human remains are identified on non-federal lands, they will be treated in accordance with Section 872.05 Florida Statutes. All work in the vicinity shall immediately cease and the Permittee shall immediately notify the medical examiner, Corps, and State Archeologist. The Corps shall then notify the appropriate SHPO and THPO(s). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume without written authorization from the State Archeologist, SHPO and the Corps.

e. In the unlikely event that human remains are encountered on federal or tribal lands, or in situations where Archaeological Resources Protection Act of 1979, or Native American Graves Protection Repatriation Act of 1990 applies, all work in the vicinity shall immediately cease and the Permittee immediately notify the Corps. The Corps shall then notify the appropriate THPO(s) and SHPO. Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. After such notification, project activities on federal lands shall not resume without written authorization from the Corps, and/or appropriate THPO(s), SHPO, and federal manager. After such notification, project activities on tribal lands shall not resume without written authorization from the appropriate THPO(s) and the Corps.

11. **Best Management Practices:** Environmental controls and best management practices must be implemented to properly contain construction materials and prevent fugitive particulates from entering surrounding waters during the construction of the project.

12. **Assurance of Navigation and Maintenance:** The Permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structures or work herein authorized, or if in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the Permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

This letter does not give absolute Federal authority to perform the work as specified on your application. The proposed work may be subject to local building restrictions mandated by the National Flood Insurance Program. You should contact your local office that issues building permits to determine if your site is located in a flood-prone area, and if you must comply with the local building requirements mandated by the National Flood Insurance Program.

If you are unable to access the internet or require a hardcopy of any of the conditions, limitations, or expiration date for the above referenced NWP, please contact Albert Gonzalez at the letterhead address, by electronic mail at [Albert.Gonzalez@usace.army.mil](mailto:Albert.Gonzalez@usace.army.mil), by telephone at 305-779-6055, or by fax at 305-526-7184.

Thank you for your cooperation with our regulatory program. The Corps Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to take a few minutes to visit <http://per2.nwp.usace.army.mil/survey.html> and complete our automated Customer Service Survey. Your input is appreciated – favorable or otherwise.

Sincerely,



Albert Gonzalez  
Project Manager

Enclosures:

General Conditions

Seaturtle and Sawfish Conditions

Standard Manatee Conditions

Self-Certification Statement of Compliance

Permit transfer form

Site plans date-stamped by the Corps on September 19, 2013

Copies Furnished:

CESAJ-RD-PE



GENERAL CONDITIONS

33 CFR PART 320-330

PUBLISHED FEDERAL REGISTER DATED 13 NOVEMBER 1986

1. The time limit for completing the work authorized ends on **date identified in the letter**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow a representative from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

**SELF-CERTIFICATION STATEMENT OF COMPLIANCE**

**Permit Number: SAJ-2013-01694 (NW-AG)**

Permittee's Name & Address (please print or type): \_\_\_\_\_

\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Location of the Work: \_\_\_\_\_

Date Work Started: \_\_\_\_\_ Date Work Completed: \_\_\_\_\_

Description of the Work (e.g. bank stabilization, residential or commercial filling, docks, dredging, etc.): \_\_\_\_\_

\_\_\_\_\_

Acreage or Square Feet of Impacts to Waters of the United States:

\_\_\_\_\_

Describe Mitigation completed (if applicable): \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Describe any Deviations from Permit (attach drawing(s) depicting the deviations):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\*\*\*\*\*

I certify that all work, and mitigation (if applicable) was done in accordance with the limitations and conditions as described in the permit. Any deviations as described above are depicted on the attached drawing(s).

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date



**DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST**

**PERMIT NUMBER: SAJ-2013-01694(NW-AG)**

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire.

To validate the transfer of this permit and the associated responsibilities associated with compliance with its terms and conditions, have the transferee sign and date below and mail to the U.S. Army Corps of Engineers, Enforcement Section, 9900 Southwest 107<sup>th</sup> Ave, Suite 203, Miami, Florida 33176.

\_\_\_\_\_  
**(TRANSFEEE-SIGNATURE)**

\_\_\_\_\_  
**(SUBDIVISION)**

\_\_\_\_\_  
**(DATE)**

\_\_\_\_\_  
**(LOT)**                      **(BLOCK)**

\_\_\_\_\_  
**(NAME-PRINTED)**

\_\_\_\_\_  
**(STREET ADDRESS)**

\_\_\_\_\_  
**(MAILING ADDRESS)**

\_\_\_\_\_  
**(CITY, STATE, ZIP CODE)**

## STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

The permittee shall comply with the following conditions intended to protect manatees from direct project effects:

- a. All personnel associated with the project shall be instructed about the presence of manatees and manatee speed zones, and the need to avoid collisions with and injury to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act, the Endangered Species Act, and the Florida Manatee Sanctuary Act.
- b. All vessels associated with the construction project shall operate at "Idle Speed/No Wake" at all times while in the immediate area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.
- c. Siltation or turbidity barriers shall be made of material in which manatees cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee entanglement or entrapment. Barriers must not impede manatee movement.
- d. All on-site project personnel are responsible for observing water-related activities for the presence of manatee(s). All in-water operations, including vessels, must be shutdown if a manatee(s) comes within 50 feet of the operation. Activities will not resume until the manatee(s) has moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the manatee(s) has not reappeared within 50 feet of the operation. Animals must not be herded away or harassed into leaving.
- e. Any collision with or injury to a manatee shall be reported immediately to the Florida Fish and Wildlife Conservation Commission (FWC) Hotline at 1-888-404-3922. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-731-3336) for north Florida or Vero Beach (1-772-562-3909) for south Florida, and to FWC at [ImperiledSpecies@myFWC.com](mailto:ImperiledSpecies@myFWC.com)
- f. Temporary signs concerning manatees shall be posted prior to and during all in-water project activities. All signs are to be removed by the permittee upon completion of the project. Temporary signs that have already been approved for this use by the FWC must be used. One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 ½" by 11" explaining the requirements for "Idle Speed/No Wake" and the shut down of in-water operations must be posted in a location prominently visible to all personnel engaged in water-related activities. These signs can be viewed at [MyFWC.com/manatee](http://MyFWC.com/manatee). Questions concerning these signs can be sent to the email address listed above.

# CAUTION: MANATEE HABITAT

**All project vessels**

## **IDLE SPEED / NO WAKE**

When a manatee is within 50 feet of work  
all in-water activities must

## **SHUT DOWN**

Report any collision with or injury to a manatee:



**Wildlife Alert:**

**1-888-404-FWCC(3922)**

cell \*FWC or #FWC



**Florida Fish  
and Wildlife  
Conservation  
Commission**

*Managing fish and wildlife  
resources for their long-term  
well-being and the benefit  
of people.*

620 South Meridian Street  
Tallahassee, Florida  
32399-1600

MyFWC.com

## **Manatee Educational Signs**

Required by Permit or Submerged Lands Lease

March 2011

In order to obtain FWC approval for the manatee educational signs required by state permit or submerged lands lease, requests should be sent to:

[ImperiledSpecies@myfwc.com](mailto:ImperiledSpecies@myfwc.com)

or:

Florida Fish and Wildlife Conservation Commission  
Imperiled Species Management Section 6-A  
620 South Meridian Street Tallahassee, FL 32399-1600.

The FWC requests that the permittee propose and submit a plan for installing signs based on the guidelines discussed below. FWC will review the sign placement proposal and notify the permittee within 60 days of receiving the plan if the signs and locations are unacceptable. Modifications to the type, location and number of proposed signs may be required. All sign proposals should follow the general guidelines in this document. The following information should be included in this plan and forwarded to FWC for review:

- A detailed upland project site plan with proposed sign locations, types, and proposed numbers of manatee signs. Include which way the signs are proposed to face.
- The project address or a location map of the facility in relation to waterways.
- The project permit or submerged lands lease number.
- Your name, email address, mailing address and a phone number.

### **Guidelines for the installation of signs**

- Signs must be placed in a prominent location for maximum visibility. Areas that are recommended include: dock walkways, dock master offices, near restrooms or other high patron foot traffic areas.
- Signs must be replaced when faded, damaged or outdated.
- If the facility is large or has multiple docks with separate walkways that are a considerable distance apart, multiple signs should be installed.
- These signs must not face the water, must never be attached to pilings or navigational markers in the water. One exception to signs facing the water exists for the temporary sign, "Caution Boaters" during in-water work.

### **FWC Approved Signs and Sign Specifications**





The FWC designs manatee educational signs, which can be produced by most sign companies. Signs other than depicted may be considered, but must be pre-approved by FWC's Imperiled Species Management Section. There is a list of known sign vendors who produce FWC signs on our [Manatee Sign Vendor webpage](#) as well as downloadable files for sign companies not on this list who may want to produce these signs.

## Manatee Educational Signs

February 2011

For durability, all signs should be fiberglass or metal with rounded corners (hand-sanded to remove all sharp edges and burrs), constructed of 0.08 Gauge 5052-H38 Aluminum with an Alodine 1200 conversion coating and Engineer Grade Type I reflective sheeting. Signs constructed to other specifications may not provide durability acceptable to the consumer.

The approved signs must meet the following specifications:

| <b>Florida Friendly Boating (2009)</b>   | <b>Caution: Boaters (2009)</b>   | <b>Entanglement (2010)</b>  | <b>Caution: Shut Down (2009)</b>   |
|--|--|---|--|
| Minimum size should be 30" tall x 36" wide with rounded corners  | Minimum size should be 30" tall x 24" wide with rounded corners  | Minimum size should be 15" tall X 12" wide with rounded corners                     | Minimum size should be 8½" tall by 11" wide metal with rounded corners   |
|    |    |  |    |
| This sign is considered the manatee educational sign. In 2009, it replaced the older manatee educational sign called "Manatee Basics for Boaters". | This sign is sometimes referred to as an awareness sign. In 2009, it replaced the "Caution: Manatee Area" sign. These signs are also frequently used as temporary signs for construction purposes. | This entanglement sign is typically placed near recycling bins or trash containers. | This temporary sign is required as part of the standard manatee construction conditions and is intended to be placed near dredge, tugboat and work boat operators. |

The size and type of signs required by permit or lease may vary from those depicted in this guide. If you have any questions, please contact FWC's Imperiled Species Management Section.



UNITED STATES DEPARTMENT OF COMMERCE  
National Oceanic and Atmospheric Administration  
NATIONAL MARINE FISHERIES SERVICE  
Southeast Regional Office  
263 13th Avenue South  
St. Petersburg, FL 33701

## SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS

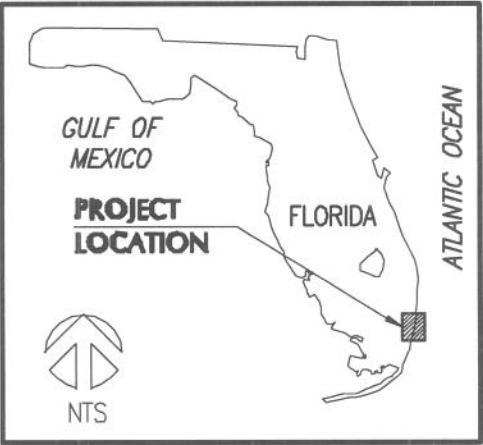
The permittee shall comply with the following protected species construction conditions:

- a. The permittee shall instruct all personnel associated with the project of the potential presence of these species and the need to avoid collisions with sea turtles and smalltooth sawfish. All construction personnel are responsible for observing water-related activities for the presence of these species.
- b. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming, harassing, or killing sea turtles or smalltooth sawfish, which are protected under the Endangered Species Act of 1973.
- c. Siltation barriers shall be made of material in which a sea turtle or smalltooth sawfish cannot become entangled, be properly secured, and be regularly monitored to avoid protected species entrapment. Barriers may not block sea turtle or smalltooth sawfish entry to or exit from designated critical habitat without prior agreement from the National Marine Fisheries Service's Protected Resources Division, St. Petersburg, Florida.
- d. All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water depths where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will preferentially follow deep-water routes (e.g., marked channels) whenever possible.
- e. If a sea turtle or smalltooth sawfish is seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure its protection. These precautions shall include cessation of operation of any moving equipment closer than 50 feet of a sea turtle or smalltooth sawfish. Operation of any mechanical construction equipment shall cease immediately if a sea turtle or smalltooth sawfish is seen within a 50-ft radius of the equipment. Activities may not resume until the protected species has departed the project area of its own volition.
- f. Any collision with and/or injury to a sea turtle or smalltooth sawfish shall be reported immediately to the National Marine Fisheries Service's Protected Resources Division (727-824-5312) and the local authorized sea turtle stranding/rescue organization.
- g. Any special construction conditions, required of your specific project, outside these general conditions, if applicable, will be addressed in the primary consultation.

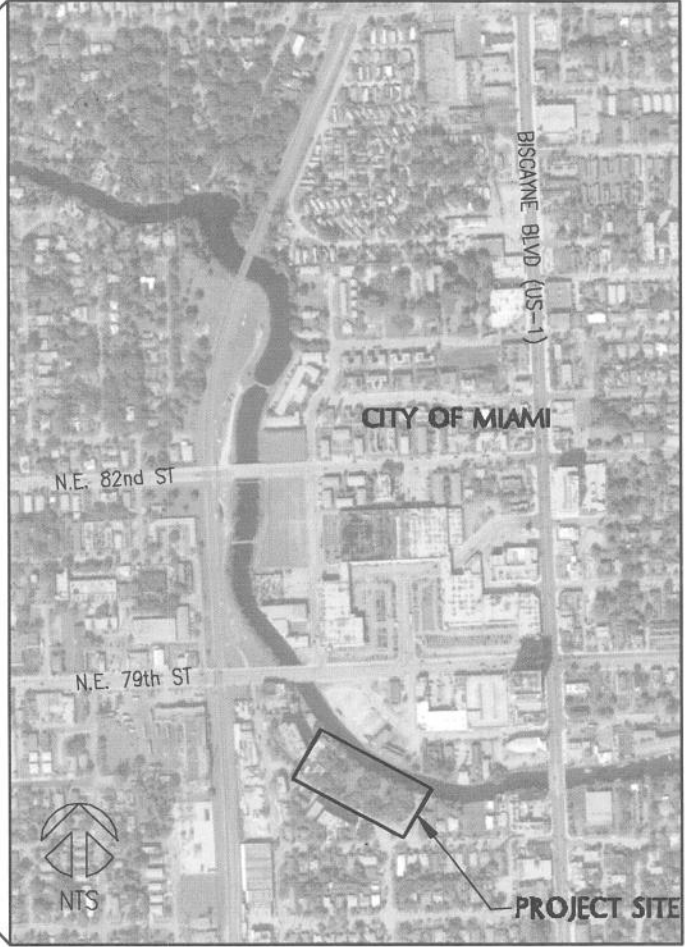
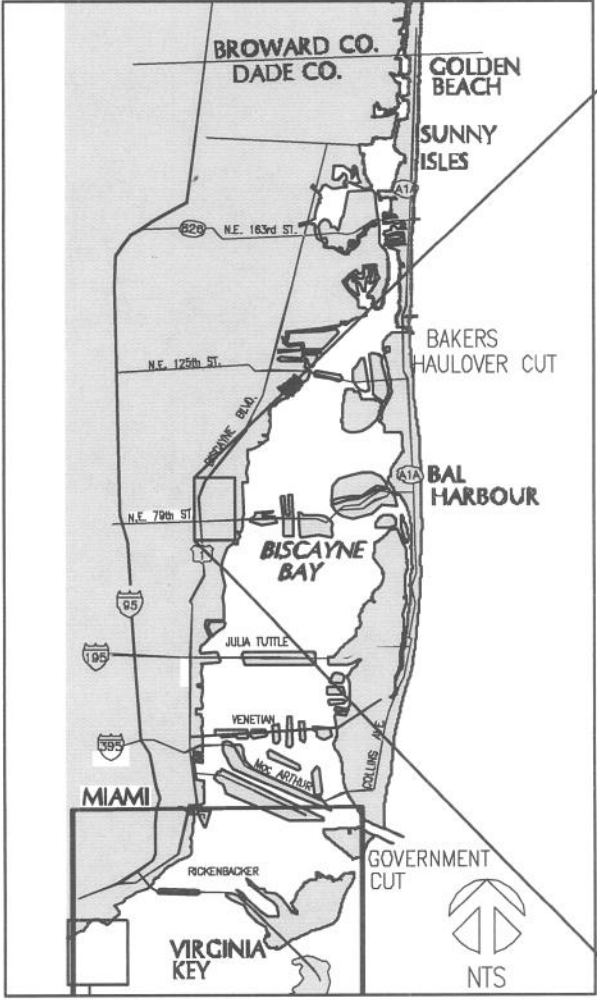
Revised: March 23, 2006

O:\forms\Sea Turtle and Smalltooth Sawfish Construction Conditions.doc





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|-----------------|--|
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| 9               | GENERAL NOTES                          |




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US ARMY  
CORPS OF ENGINEERS

SEP 19 2013

MIAMI REGULATORY OFFICE  
COE #: 2013-01694  
T.K. BLANKENSHIP  
FL REG. 55910

|  |                          |
|--|--------------------------|
| APP. NO:   | .                        |
| PROJECT NO:  | 220250.03                |
| DATUM:   | NAVD                     |
| DRAWN BY:  | VC                       |
| CHECKED BY:  | TKB                      |
| DATE:  | 07/30/13                 |
| DESCRIPTION:   | DERM REVISIONS           |
|  | 06/03/13 PERMIT SKETCHES |
| SUBMITTED BY:  |                          |
|  <b>COASTAL SYSTEMS INTERNATIONAL, INC.</b><br>464 South Dixie Highway, Coral Gables, Florida 33146<br>Tel: 305-661-3855 Fax: 305-661-1914 www.CoastalSystemsInt.com<br>STATE OF FLORIDA EB #7087<br>Coastal, Environmental, Civil Engineering and Management |                          |


|         |  |
|---------|--|
| CLIENT: | <b>CITY OF MIAMI</b>                       |
|         | 3500 PAN AMERICAN DRIVE<br>MIAMI, FL 33133 |
|         | MANATEE BEND PARK<br>SHORELINE PROJECT     |
|         | <b>LOCATION MAP</b>                        |
|         | SHEET 1 OF 9                               |



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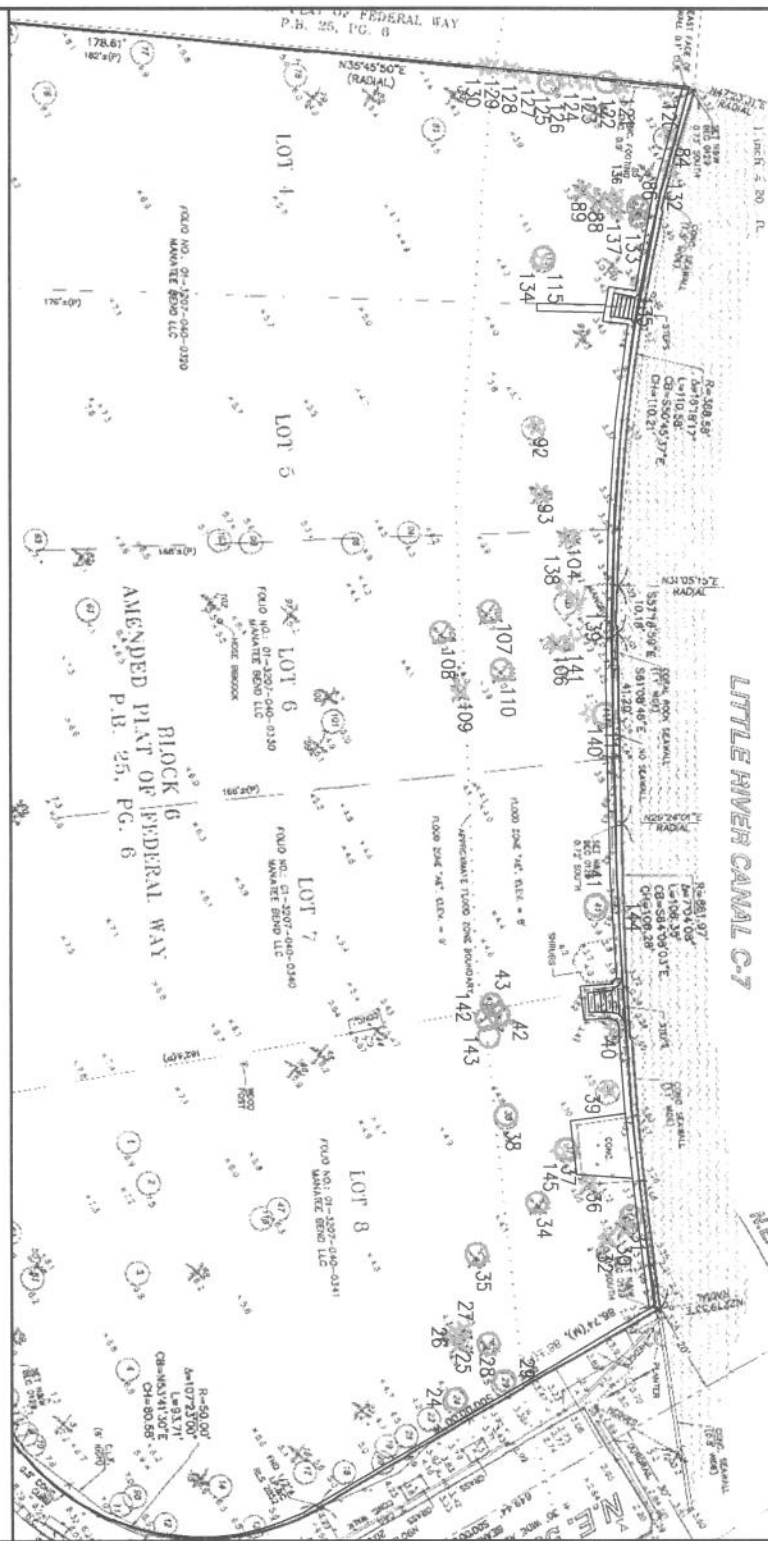
SEP 10 2013  
 MIAMI REGULATORY OFFICE  
 COE #: 2013-01694  
 PROJECT MANAGER: A. Gonzalez

|  |           |
|--|-----------|
| APP. NO:   | .         |
| PROJECT NO:  | 220250.03 |
| DATUM:   | NAVD      |
| DRAWN BY:  | VC        |
| CHECKED BY:  | TKB       |
| SUBMITTED BY:  |           |
|  <b>COASTAL SYSTEMS INTERNATIONAL, INC.</b><br>464 South Dixie Highway, Coral Gables, Florida 33146<br>Tel: 305-861-3855 Fax: 305-861-1914 www.CoastalSystemsInt.com<br>STATE OF FLORIDA EB #7067<br>Coastal, Environmental, Civil Engineering and Management |           |

|  |
|--|
| CLIENT:  |
| <b>CITY OF MIAMI</b><br>3500 PAN AMERICAN DRIVE<br>MIAMI, FL 33133 |
| MANATEE BEND PARK<br>SHORELINE PROJECT                             |
| <b>EXISTING CONDITIONS</b>   |
| SHEET 2 OF 9   |

T.K. BLANKENSHIP  
 FL. REG. 55910

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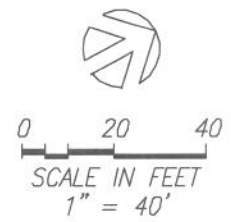
SEP 19 2013

MIAMI REGULATORY OFFICE

COE #: 2013-01694  
PROJECT MANAGER: A. Gonzalez

**NOTES:**  
1. EXOTIC TREES TO BE REMOVED.

**LEGEND**  
○ 110 NATIVE TREE  
★ 109 EXOTIC TREE



|                                   |                 |   |           |                          |  |
|-----------------------------------|-----------------|---|-----------|--------------------------|--|
|                                   |                 | APP. NO:  |           | CLIENT:                  |  |
|                                   |                 | PROJECT NO:   | 220250.03 | CITY OF MIAMI            |  |
|                                   |                 | DATUM:  | NAVD      | 3500 PAN AMERICAN DRIVE  |  |
| 07/30/13                          | DERM REVISIONS  | DRAWN BY:   | VC        | MIAMI, FL 33133          |  |
| 06/03/13                          | PERMIT SKETCHES | CHECKED BY:   | TKB       | MANATEE BEND PARK        |  |
| DATE:                             | DESCRIPTION:    | SUBMITTED BY:   |           | SHORELINE PROJECT        |  |
|                                   |                 |  <b>COASTAL SYSTEMS INTERNATIONAL, INC.</b><br>464 South Dixie Highway, Coral Gables, Florida 33146<br>Tel: 305-661-3655 Fax: 305-661-1914 www.CoastalSystemsintl.com<br>STATE OF FLORIDA EB #7087<br>Coastal, Environmental, Civil Engineering and Management |           | <b>UPLAND VEGETATION</b> |  |
| T.K. BLANKENSHIP<br>FL REG. 55910 |                 |   |           | SHEET 3 OF 9             |  |

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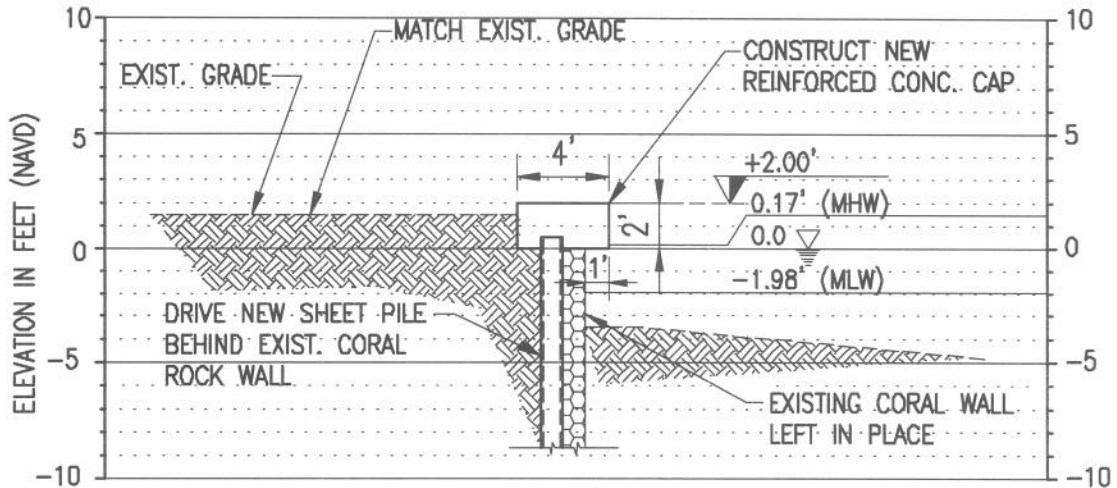
| TREE/SHRUB TABLE |                      |  |              |            |            |
|------------------|----------------------|--|--------------|------------|------------|
| Point #          | Common Name          | Scientific Name                                  | Diameter (") | Height (') | Spread (') |
| 24               | Gumbo Limbo          | <i>Bursera simaruba</i>                          | 10           | 30         | 20         |
| 25               | Solitaire Palms      | <i>Ptychosperma elegans</i>                      | 4            | 40         | 7          |
| 26               | Solitaire Palms      | <i>Ptychosperma elegans</i>                      | 5            | 30         | 7          |
| 27               | Solitaire Palms      | <i>Ptychosperma elegans</i>                      | 5            | 30         | 7          |
| 28               | Coconut Palm         | <i>Cocos nucifera</i>                            | 14           | 40         | 30         |
| 29               | Live Oak             | <i>Quercus virginiana</i>                        | 14           | 40         | 25         |
| 30 (7)           | Areca Palm           | <i>Dypsis lutescens</i>                          | 2            | 8          | 15         |
| 31               | Coconut Palm         | <i>Cocos nucifera</i>                            | 8            | 45         | 20         |
| 32 (5)           | Travelers Tree       | <i>Ravenala madagascariensis</i>                 | 6            | 12         | 7          |
| 34               | Coconut Palm         | <i>Cocos nucifera</i>                            | 12           | 35         | 15         |
| 35               | Coconut Palm         | <i>Cocos nucifera</i>                            | 12           | 40         | 18         |
| 36 (7)           | Travelers Tree       | <i>Ravenala madagascariensis</i>                 | 4            | 27         | 25         |
| 37 (2)           | Live Oak             | <i>Quercus virginiana</i>                        | 30           | 50         | 55         |
| 38               | Gumbo Limbo          | <i>Bursera simaruba</i>                          | 48           | 45         | 50         |
| 39               | Brazil Beauty Leaf   | <i>Calophyllum brasiliense</i>                   | 10           | 35         | 25         |
| 40 (9)           | Areca Palm           | <i>Dypsis lutescens</i>                          | 2            | 15         | 12         |
| 41               | Seagrape             | <i>Coccoloba uvifera</i>                         | 96           | 30         | 35         |
| 42               | Manila Palm          | <i>Veitchia merrillii</i>                        | 4            | 35         | 10         |
| 43               | Manila Palm          | <i>Veitchia merrillii</i>                        | 6            | 25         | 12         |
| 84               | Orchid Tree          | <i>Bauhinia variegata</i>                        | 28           | 25         | 35         |
| 92               | Common Screw Pine    | <i>Pandanus utilis</i>                           | 10           | 20         | 10         |
| 93 (17)          | Areca Palm           | <i>Dypsis lutescens</i>                          | 3            | 25         | 20         |
| 104              | Solitaire Palms      | <i>Ptychosperma elegans</i>                      | 3            | 20         | 10         |
| 105              | Live Oak             | <i>Quercus virginiana</i>                        | 30           | 45         | 45         |
| 106              | Washington Palm      | <i>Washingtonia robusta</i>                      | 12           | 30         | 15         |
| 107              | Coconut Palm         | <i>Cocos nucifera</i>                            | 8            | 35         | \          |
| 108              | Coconut Palm         | <i>Cocos nucifera</i>                            | 12           | 40         | 20         |
| 109              | Washington Palm      | <i>Washingtonia robusta</i>                      | 15           | 35         | 15         |
| 110              | Coconut Palm         | <i>Cocos nucifera</i>                            | 12           | 40         | 20         |
| 111              | Strangler Fig        | <i>Ficus aurea</i>                               | 180          | 40         | 25         |
| 117              | Spider Lily          | <i>Hymenocallis sp.</i>                          | \            | \          | \          |
| 118              | Spider Lily          | <i>Hymenocallis sp.</i>                          | \            | \          | \          |
| 119              | Seaside Mahoe        | <i>Thespesia populnea</i>                        | \            | \          | \          |
| 120              | Dracaena             | <i>Dracaena marginata</i>                        | 0.5          | 2          | \          |
| 121              | Dracaena             | <i>Dracaena marginata</i>                        | 0.5          | 2          | \          |
| 122              | Dinnerplate Aralia   | <i>Polyscias scutellaria</i>                     | 4            | \          | 3          |
| 123              | Ornamental Plant     | \  | \            | \          | \          |
| 124              | Ornamental Plant     | \  | \            | \          | \          |
| 125              | Ornamental Plant     | \  | \            | \          | \          |
| 126              | Dinnerplate Aralia   | <i>Polyscias scutellaria</i>                     | 5            | \          | 7          |
| 127              | Ornamental Plant     | \  | \            | \          | 4          |
| 128              | Pothos               | <i>Epipremnum aureum</i>                         | \            | \          | 4          |
| 129              | Pothos               | <i>Epipremnum aureum</i>                         | \            | \          | 2          |
| 130              | Pothos               | <i>Epipremnum aureum</i>                         | \            | \          | 2          |
| 131              | Live Oak             | <i>Quercus virginiana</i>                        | 40           | 35         | 60         |
| 132              | Spider Lily          | <i>Hymenocallis sp.</i>                          | \            | \          | 2          |
| 133              | Manila Palm          | <i>Veitchia merrillii</i>                        | \            | 8          | 3          |
| 134              | Seagrape & Pothos    | <i>Coccoloba uvifera &amp; Epipremnum aureum</i> | \            | \          | \          |
| 135              | Spider Lily          | <i>Hymenocallis sp.</i>                          | \            | \          | 2.5        |
| 136              | Travelers Tree       | <i>Ravenala madagascariensis</i>                 | 2            | 2          | \          |
| 137              | Travelers Tree       | <i>Ravenala madagascariensis</i>                 | 3            | 4          | \          |
| 138              | Mother Inlaw Tongues | <i>Sansevieria trifasciata</i>                   | \            | \          | 3          |
| 139              | Scaveola sp.         | <i>Scaveola sp.</i>                              | \            | \          | 11         |
| 140              | Mother Inlaw Tongues | <i>Sansevieria trifasciata</i>                   | \            | \          | \          |
| 141              | Scaveola sp.         | <i>Scaveola sp.</i>                              | \            | \          | \          |
| 142              | Manila Palm          | <i>Veitchia merrillii</i>                        | 5            | 20         | 12         |
| 143              | Manila Palm          | <i>Veitchia merrillii</i>                        | 6            | 20         | 12         |
| 144              | Commonn Screw Pine   | <i>Pandanus utilis</i>                           | 5            | 20         | 11         |
| 145              | Commonn Screw Pine   | <i>Pandanus utilis</i>                           | 1            | 5          | 2.5        |

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SEP 19 2018  
MIAMI REGULATORY OFFICE  
2013-01694  
PROJECT MANAGER: A. Guadalupe

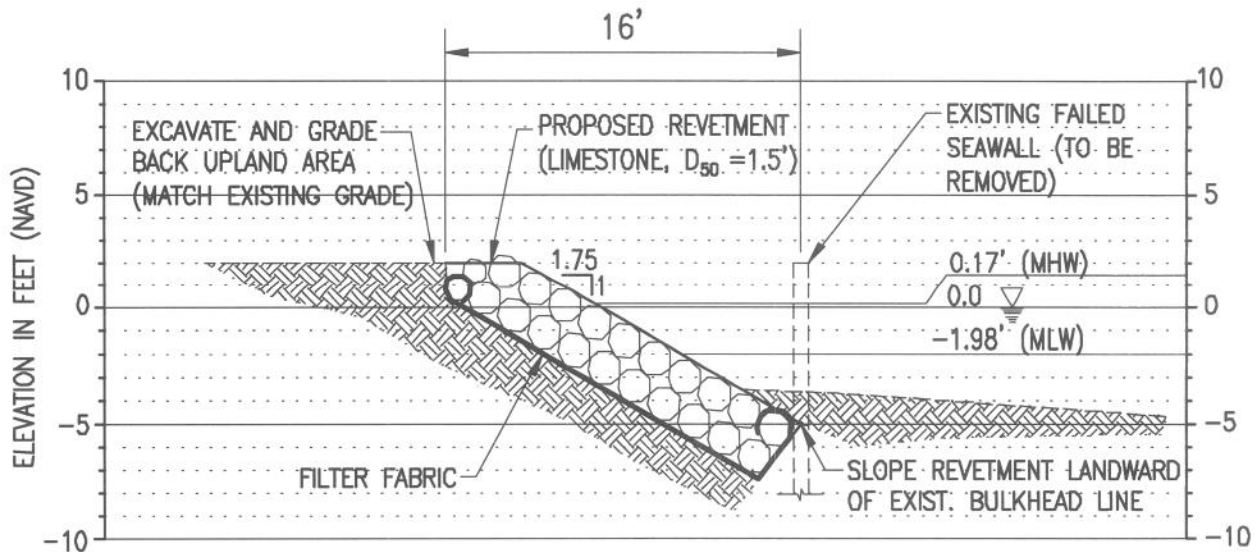
|   |  |                                |  |
|---|--|--------------------------------|--|
| APP. NO:  |  | CLIENT:                        |  |
| PROJECT NO: 220250.03   |  | CITY OF MIAMI                  |  |
| DATUM: NAVD   |  | 3500 PAN AMERICAN DRIVE        |  |
| DRAWN BY: VC  |  | MIAMI, FL 33133                |  |
| CHECKED BY: TKB   |  | MANATEE BEND PARK              |  |
| SUBMITTED BY:   |  | SHORELINE PROJECT              |  |
|  <b>COASTAL SYSTEMS INTERNATIONAL, INC.</b><br>464 South Dixie Highway, Coral Gables, Florida 33146<br>Tel: 305-661-3655 Fax: 305-661-1914 www.CoastalSystemsInt.com<br>STATE OF FLORIDA EB #7087<br>Coastal, Environmental, Civil Engineering and Management. |  | <b>UPLAND VEGETATION TABLE</b> |  |
| T.K. BLANKENSHIP<br>FL. REG. 55910  |  | SHEET 4 OF 9                   |  |







**(A) TYPICAL REPLACEMENT BULKHEAD**  
SCALE: 1" = 8'



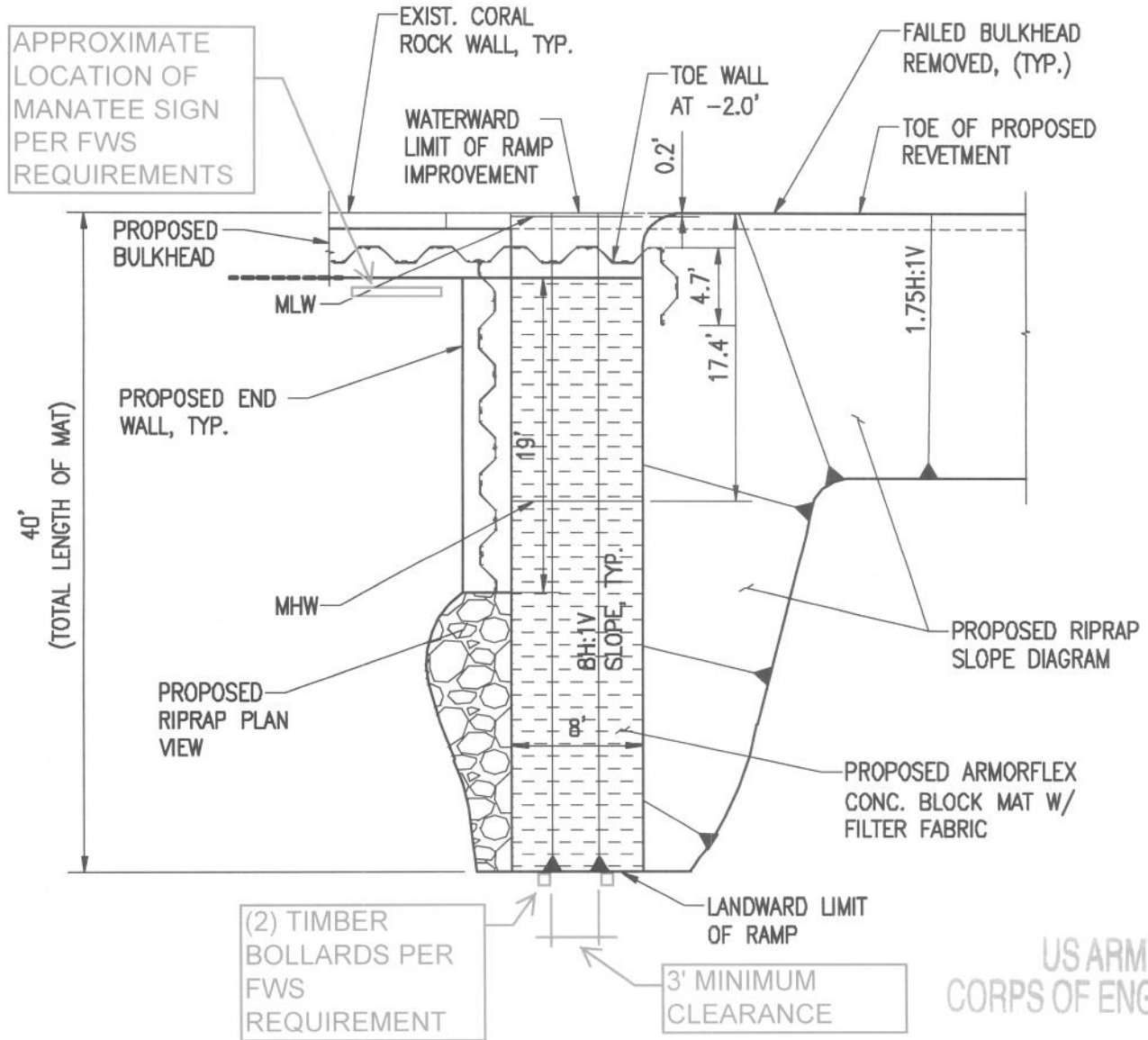
**(B) RIPRAP REVETMENT SECTION**  
SCALE: 1" = 8'

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|                                    |                          |  |   |
|------------------------------------|--------------------------|--|---|
| SEP 19 2013                        |                          | APP. NO:   | CLIENT:   |
| MIAMI REGULATORY OFFICE            |                          | PROJECT NO: 220250.03  | CITY OF MIAMI                                     |
| COE #: 2013-01694                  | 07/30/13 DERM REVISIONS  | DATUM: NAVD  | 3500 PAN AMERICAN DRIVE                           |
| PROJECT MANAGER: A. Gonzalez       | 06/03/13 PERMIT SKETCHES | DRAWN BY: VC   | MIAMI, FL 33133                                   |
|                                    | DATE: DESCRIPTION:       | CHECKED BY: TKB  | MANATEE BEND PARK                                 |
|                                    |                          | SUBMITTED BY:  | SHORELINE PROJECT                                 |
|                                    |                          |  | <b>RIPRAP &amp; BULKHEAD REPLACEMENT SECTIONS</b> |
| T.K. BLANKENSHIP<br>FL. REG. 55910 |                          | COASTAL SYSTEMS INTERNATIONAL, INC.<br>464 South Dixie Highway, Coral Gables, Florida 33146<br>Tel: 305-661-3800 Fax: 305-661-1914 www.CoastalSystemsint.com<br>STATE OF FLORIDA EB #7087<br>Coastal, Environmental, Civil Engineering and Management. | SHEET 6 OF 9                                      |

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US ARMY  
CORPS OF ENGINEERS

SEP 19 2013

MIAMI REGULATORY OFFICE

COE #: 2013-01684  
PROJECT MANAGER: A. Gonzalez

**1 KAYAK LAUNCH AREA**  
SCALE: 1" = 10'

|  |           |
|--|-----------|
| APP. NO:   | .         |
| PROJECT NO:  | 220250.03 |
| DATUM:   | NAVD      |
| DRAWN BY:  | VC        |
| CHECKED BY:  | TKB       |
| SUBMITTED BY:  |           |
|  <b>COASTAL SYSTEMS INTERNATIONAL, INC.</b><br>464 South Dixie Highway, Coral Gables, Florida 33146<br>Tel: 305-861-3855 Fax: 305-861-1914 www.CoastalSystemsInt.com<br>STATE OF FLORIDA EB #7087<br>Coastal, Environmental, Civil Engineering and Management |           |

|  |
|--|
| CLIENT:                                    |
| <b>CITY OF MIAMI</b>                       |
| 3500 PAN AMERICAN DRIVE<br>MIAMI, FL 33133 |
| MANATEE BEND PARK<br>SHORELINE PROJECT     |
| <b>KAYAK LAUNCH AREA PLAN</b>              |
| SHEET 7 OF 9                               |

T.K. BLANKENSHIP  
FL. REG. 55910

T.K. BLANKENSHIP  
FL REG. 55910



COASTAL SYSTEMS INTERNATIONAL, INC.  
466 South Dade Highway, Coral Gables, Florida 33146  
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STATE OF FLORIDA EB #7087  
Coastal, Environmental, Civil Engineering and Management

SHEET 8 OF 9

KAYAK LAUNCH AREA SECTION

MANATEE BEND PARK  
SHORELINE PROJECT

3500 PAN AMERICAN DRIVE  
MIAMI, FL 33133

CITY OF MIAMI

CLIENT:

|               |                |
|---------------|----------------|
| APP. NO:      | .              |
| PROJECT NO:   | 220250.03      |
| DATUM:        | NAVD           |
| DRAWN BY:     | VC             |
| CHECKED BY:   | TKB            |
| DATE:         | 07/30/13       |
| DESCRIPTION:  | PERM REVISIONS |
| DATE:         | 06/03/13       |
| DESCRIPTION:  | PERM SKETCHES  |
| SUBMITTED BY: |                |

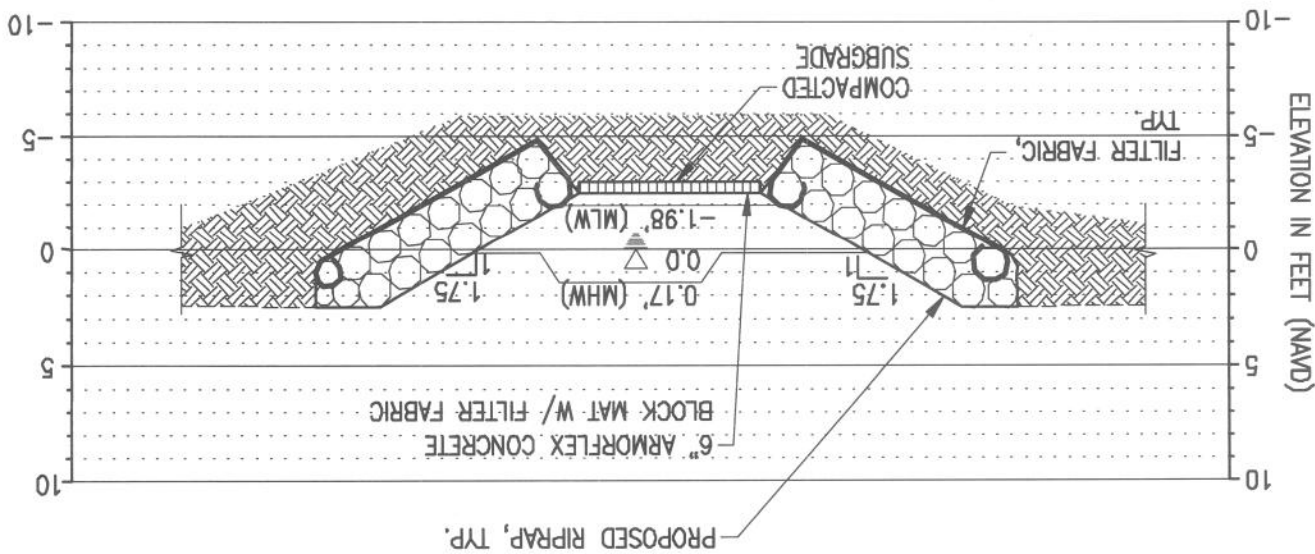
COE #: 2013-01634  
PROJECT MANAGER: A. Gonzalez

MIAMI REGULATORY OFFICE

SEP 18 2013

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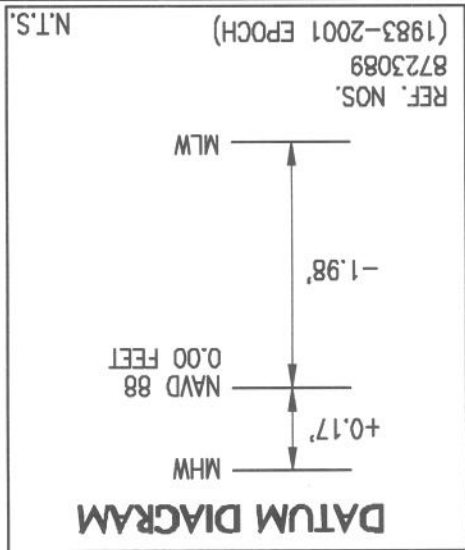
TYPICAL SECTION  
SCALE: 1" = 8'



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|  |  |   |                          |
|--|--|---|--------------------------|
| T.K. BLANKENSHIP<br>FL. REG. 55910         |  |  COASTAL SYSTEMS INTERNATIONAL, INC.<br>464 South Dixie Highway, Coral Gables, Florida, 33134<br>Tel: 305-881-3555 Fax: 305-881-1914 www.CoastalSysIntl.com<br>Coastal Environmental, Civil Engineering and Management<br>STATE OF FLORIDA EB #7087<br>Coastal Environmental, Civil Engineering and Management |                          |
| SHEET 9 OF 9                               |  | SUBMITTED BY:   |                          |
| GENERAL NOTES                              |  | DATE:   | 07/30/13                 |
| MANATEE BEND PARK<br>SHORELINE PROJECT     |  | DESCRIPTION:  | 06/03/13 PERMIT SKETCHES |
| 3500 PAN AMERICAN DRIVE<br>MIAMI, FL 33133 |  | CHECKED BY:   | TKB                      |
| CITY OF MIAMI                              |  | DRAWN BY:   | VC                       |
| CLIENT:                                    |  | DATUM:  | NAVD                     |
|  |  | PROJECT NO:   | 220250.03                |
|  |  | APP. NO:  | .                        |



US ARMY  
 CORPS OF ENGINEERS  
 SEP 19 2013  
 MIAMI REGULATORY OFFICE  
 COE # 2013-01694  
 PROJECT MANAGER: *A. Gonzalez*

- GENERAL NOTES:**
1. HYDROGRAPHIC & TOPOGRAPHIC DATA COLLECTED BY MARTINEZ AND MARTINEZ ENTERPRISES, INC. AND COASTAL SYSTEMS INTERNATIONAL INC. ON APRIL 2, 2013.
  2. UNDERGROUND AND SUBAQUEOUS IMPROVEMENTS AND/OR UTILITIES WERE NOT LOCATED AS PART OF THIS SURVEY AND SHOULD BE FIELD VERIFIED PRIOR TO ANY MARINE CONSTRUCTION.
  3. HORIZONTAL COORDINATES ARE IN FEET AND BASED ON FLORIDA STATE PLANE EAST,, NAD 83.
  4. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). REFER TO VERTICAL DATUM DIAGRAM THIS SHEET.
  5. THE INFORMATION DEPICTED ON THE SURVEY REPRESENTS THE RESULTS OF THE SURVEY ON THE DATES INDICATED AND CAN ONLY BE CONSIDERED AS AN INDICATION OF THE GENERAL CONDITIONS EXISTING AT THAT TIME.
  6. THESE DRAWINGS ARE "PERMIT SKETCHES" INTENDED TO PROVIDE SUFFICIENT DATA FOR REVIEW AND EVALUATIONS BY REGULATORY AGENCIES. THESE DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION.
  7. CONSTRUCTION WILL NOT REQUIRE WATER-BASED EQUIPMENT.
  8. UPLAND VEGETATION SURVEY COMPLETED BY COASTAL SYSTEMS ON APRIL 2, 2013.
  9. TOTAL LENGTH OF NEW WALL AND RIP RAP: 237 LF  
 - NEW SHEETPILE WALL 159 LF  
 - NEW RIPRAP REVETMENT 78 LF
  10. CONSTRUCTION WILL OCCUR PRIOR TO THE REMOVAL OF THE EXISTING WALL TO THE EXTENT POSSIBLE. DOUBLE TURBIDITY CURTAINS WILL BE USED AT THE KAYAK RAMP AND RIP-RAP REVETMENT AREAS.