

## PA CHECKLIST

Manila

Brown

DATE RECEIVED: 4/20/11 DAY 30: 5/20/11 APPL. NO: 13-0306269-001  
Date entered into PA: \_\_\_\_\_ Date of File Setup: MAY 16 2011APPLICANT/PROJECT NAME: City of Miami - Miami Marine StadiumPROCESSOR Luedtke CO-PROCESSOR \_\_\_\_\_PERMIT FEE Rec'd \$ 0 Correct Amount \$ 710 Amount Refund/Needed: \$ \_\_\_\_\_STATE LANDS FEE Rec'd \$ 0 Type Code ES Subtype Code 09Project and fees reviewed by: Luedtke on 5/16/11

TYPE OF PERMIT/AUTHORIZATION: (Circle One)

A. ERP:

Exemption

De minimus

Notice GP

Standard General

Individual Permit

Conceptual

Modification

Time Extension

B. Mangrove:

Exemption

General Permit

Alteration Permit

C. Non-Binding/Non-Jurisdictional:

Non-Binding

Non-Jurisdictional

PROJECT DESCRIPTION: Shoreline StabilizationSection: 17+18 Township: 54 South Range: 42 East Waterbody: Biscayne Bay  
Water Body Class: 111 OFW: Yes/No Aq. Pres: Yes/No  
Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_Reviewer Comments: Same as 13-0217762-009 fileRequest for Comments  
Date Sent \_\_\_\_\_ Date Rec'd \_\_\_\_\_ Agencies/Commentors: \_\_\_\_\_

Notes/Responses

25° 44' 59.83" MAY 16 2011 ✓ Proprietary Review  
80° 10' 27.33" Title/Land Records Sect.TFT Reed 18030Hydrographic/EngineeringStormwater (Indar)Hydrographic (Jack Wu)FFWCC - Imperiled Species Mgmtffwccmail@myfwc.comOther Agencies/Interested PartiesBeaches & Coastal SystemsDept. of State (Archeology)Dept. Comm. AffairsUSACOE (Corps)Jupiter Inlet DistrictFINDCounty DEEMCityOther:AP Manager Pam SweeneyMailing ListNoneNone - Just NoticeNoneNone!

DATE COMPLETE: \_\_\_\_\_ DAY 65 \_\_\_\_\_ DAY 90 \_\_\_\_\_

SGP Drafted by: Bry LuedtkeDate 8/25/11

Supervisor Review: \_\_\_\_\_

Date \_\_\_\_\_

Manager Review/Signature: \_\_\_\_\_

Date \_\_\_\_\_

Prg. Adm. Review/Signature: \_\_\_\_\_

Date \_\_\_\_\_

Finger  
Island25° 45' 5.04"  
80° 10' 21.83"Spoil  
Island25° 44' 59.83"  
80° 10' 27.33"

# CHRONOLOGY - DEP FILE NAME & NO.

DATE INITIALS

ACTION

5/19/11 BU ~~RAI~~ Site Visit conducted  
No SAV or Mangrove impacts  
w/ project footprint.

5/20/11 BU RAI #1 Sent

6/27/11 BU Response to RAI #1 received!  
File complete pending receipt  
of S+S drawings

6/22/11 BU Received Signed & Sealed  
Drawings.

80.10, 9.1.22,  
72.11.21.22

Project  
Jorge

80.10, 9.1.22,  
72.11.21.22

Project  
Jorge

80.10, 9.1.22, 72.11.21.22



miamidade.gov

Department of Environmental Resources Management  
Natural Resources Regulation and Restoration Division  
701 NW 1st Court, 6th Floor  
Miami, Florida 33136-3912  
T 305-372-6567 F 305-372-6407

RECEIVED

JUL 22 2011

FL DEP  
WEST PALM BEACH

July 21, 2011

Jill King  
Florida Department of Environmental Protection  
Submerged Lands & Environmental Resources Program  
400 N. Congress Avenue, Suite 200  
West Palm Beach, Florida 33401

RE: Miami Marine Stadium Park Shoreline Stabilization (File No. 13-0306269-001)

Dear Ms. King:

Please find the attached check (#02497300) for \$710.00 made out to FDEP for the processing fee associated with the above referenced application. Also attached are two (2) sets of signed and sealed drawings.

Please contact me if you have any questions or need any additional information.

Sincerely,

A handwritten signature in black ink, appearing to read "Josh Mahoney".

Joshua Mahoney, Biologist II  
Restoration and Enhancement Section

cc: Benny Luedike – Florida Department of Environmental Protection  
([Benny.Luedike@dep.state.fl.us](mailto:Benny.Luedike@dep.state.fl.us))

*Delivering Excellence Every Day*



# Florida Department of Environmental Protection

Southeast District Office  
400 N. Congress Avenue, Suite 200  
West Palm Beach, FL 33401  
561-681-6600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

RECEIVED

JUL 22 2011

FL DEP  
WEST PALM BEACH

JUL 18 2011

Department of Environmental Resources Management (DERM)  
Attn: Joshua Mahoney  
701 NW 1st Court, 6th Floor  
Miami, FL 33136-3912

Dear Mr. Mahoney:

Please find the attached check for \$710.00 made out to the FDEP. It appears that two checks were sent for the same project (#02497299 and #02497300). We are hereby returning the check to you.

Feel free to contact me if you have any questions.

Sincerely,

Jill King  
Environmental Manager  
Department of Environmental Protection  
Submerged Lands & Environmental Resource Program  
400 N. Congress Avenue Suite 200  
West Palm Beach, FL 33401  
Phone: (561) 681-6638  
Fax: (561) 681-6780

RECEIVED

JUL 22 2011

FL DEP

WEST PALM BEACH

# MARINE STADIUM FINGER ISLANDS

PROJECT AREA  
SITE 1

PROJECT AREA  
SITE 2

## Survey Notes:

1. All survey information used to prepare these drawings is based on a topographic survey ( "Topographic Survey, Marine Stadium Finger Island" ) supervised, signed and sealed by Mr. Michael J. Whitting, P.S.M., Florida Licence Number 4688, Miami-Dade County Public Works Department, 140 West Flagler Street, Suite #805, Miami, Florida 33130.
2. All measurements were made in US Survey Feet.
3. Elevations are referred to the North American Vertical Datum of 1988 (NAVD). Elevations are based on Miami-Dade County Benchmark KB-3-R; Said Benchmark being a PK Nail and Brass Washer in concrete curb at the east end of the median at the north Rickenbacker Causeway and Miami Marine Stadium.
4. The horizontal coordinates shown on the survey that were used to prepare these drawings were based on the North American Datum of 1983 ( 1990 Adjusted ).
5. The surveyor stated that no attempt was made to locate underground utilities, footings, buildings, walkway, roads, docks, walls or fences, except if shown hereon.

## Drawing Notes:

1. This set of drawings titles, ( "Miami Marine Stadium Shoreline Stabilization Projects", Site 1 and 2 ) were prepared solely for the intent of obtaining all environmental permits necessary to complete this project.
2. These drawings shall not be used for construction.
3. Any deviations in scope from what is presented within these permit drawings shall not be approved unless included in revised set of drawings signed and sealed by Professional Engineer, Licensed in State of Florida.

FOR PERMIT ONLY

JUAN A. GURIEL  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
( NOT FOR CONSTRUCTION )

JOB: AERIAL PICTURES OF AREA AND NOTES

DATE: 02-11

BY: J.M.C.

SHEET: 2 OF 8

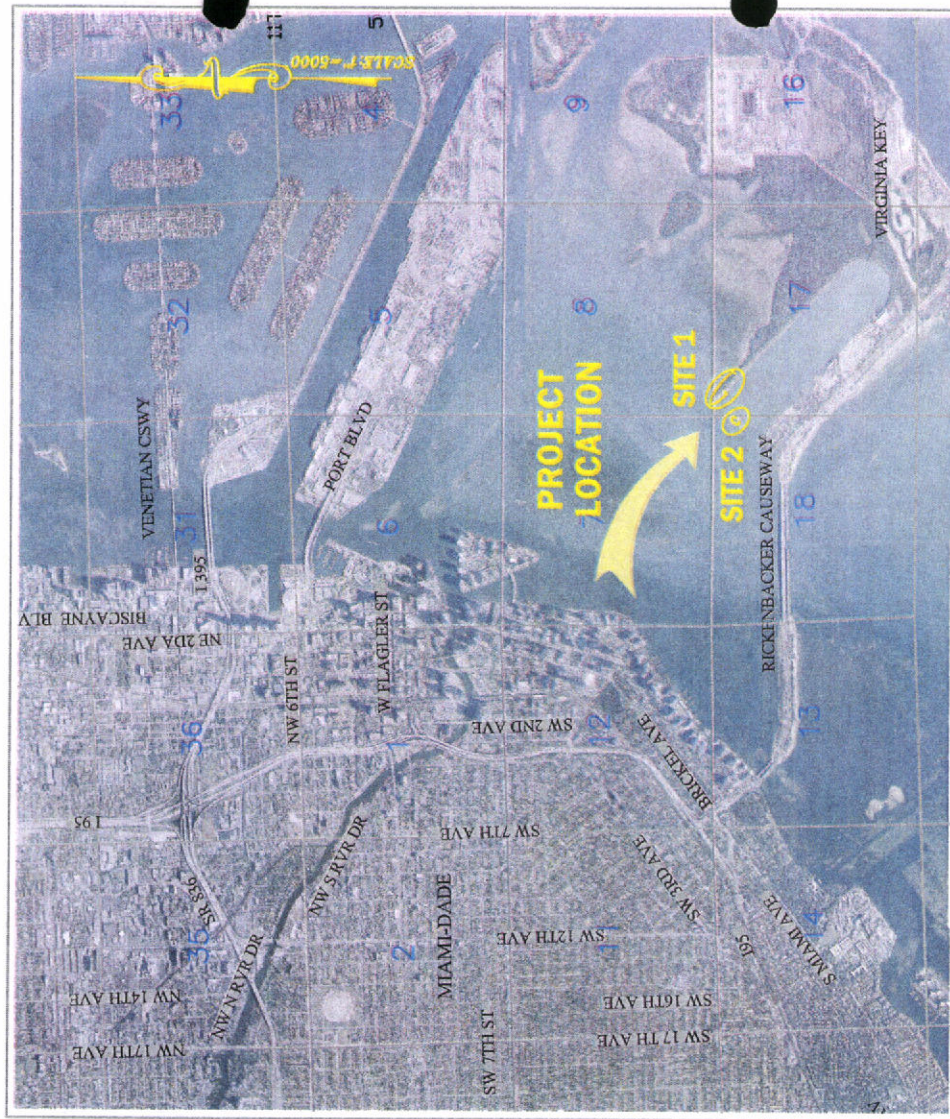
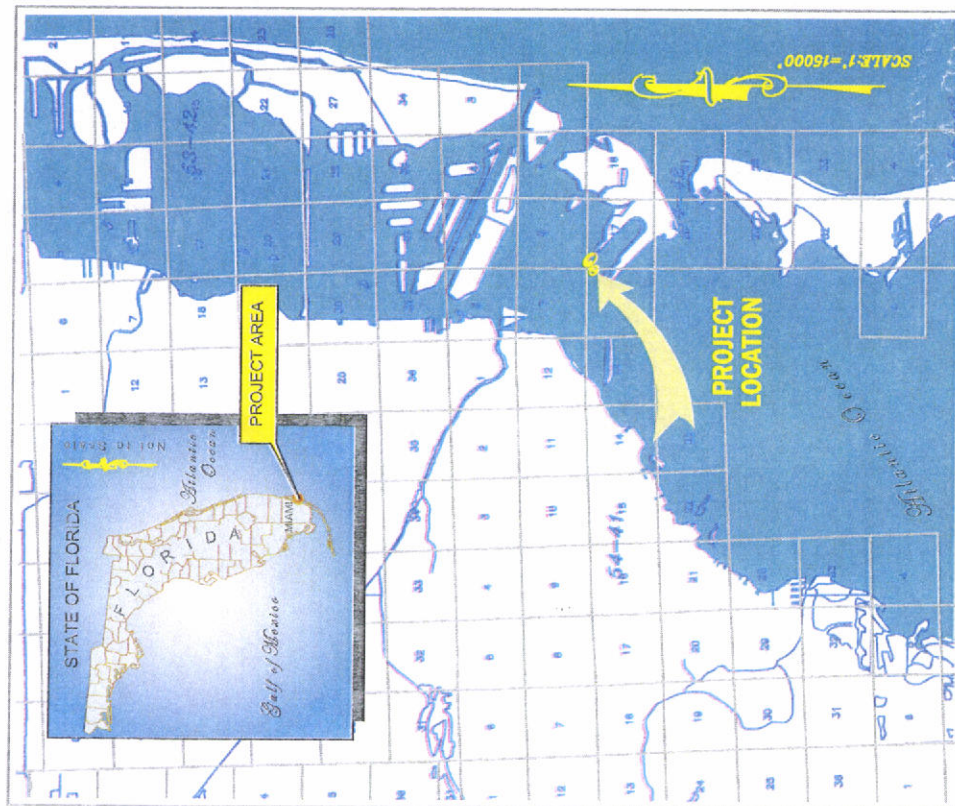
RECEIVED

JUL 22 2011

FL DEP

WEST PALM BEACH

MIAMI DADE COUNTY  
DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT (DERM)  
NOT FOR CONSTRUCTION; FOR PERMIT ONLY



LOCATION MAP

SECTIONS: 8, 17, 18      TWN: 54      RANGE: 42

VICINITY MAP

FOR PERMIT ONLY

## INDEX OF SHEETS

1. VICINITY MAP & INDEX OF DRAWINGS
2. AERIAL PICTURES OF AREA AND NOTES
3. MARINE STADIUM FINGER ISLAND, SITE PLAN (SITE 1)
4. MARINE STADIUM FINGER ISLAND, SITE PLAN (SITE 2)
5. TYPICAL CROSS SECTION, SITE 1 "A" & "B"
6. TYPICAL CROSS SECTION, SITE 1 "C" & "D"
7. TYPICAL CROSS SECTION, SITE 2 "A" & "B"
8. TYPICAL CROSS SECTION, SITE 2 "C" & "D"

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
( NOT FOR CONSTRUCTION )

JOB: VICINITY MAP &amp; INDEX OF DRAWINGS

BY:

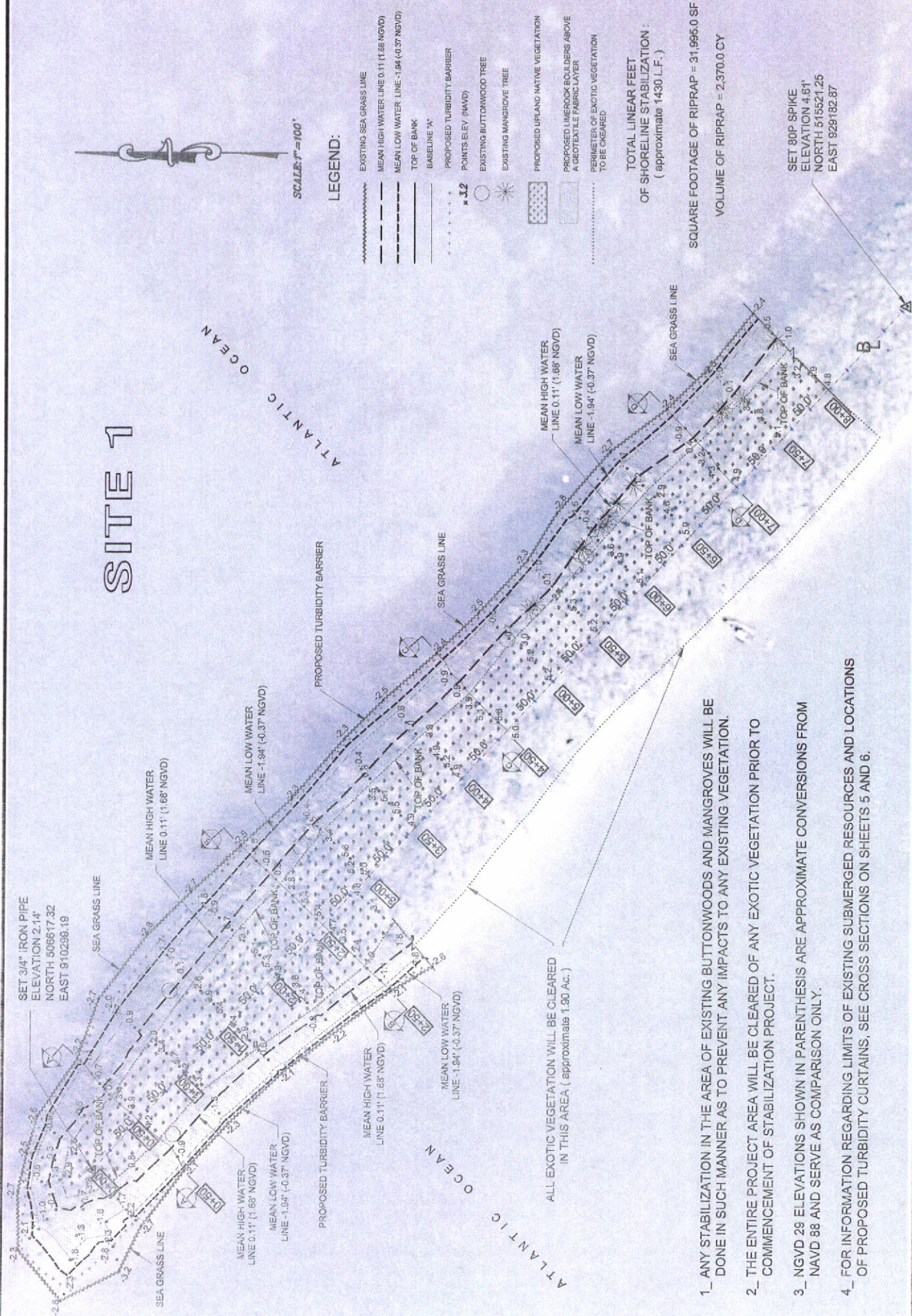
MC

License No. 63890

State of Florida Professional Engineer

License No. 63890

# SITE 1

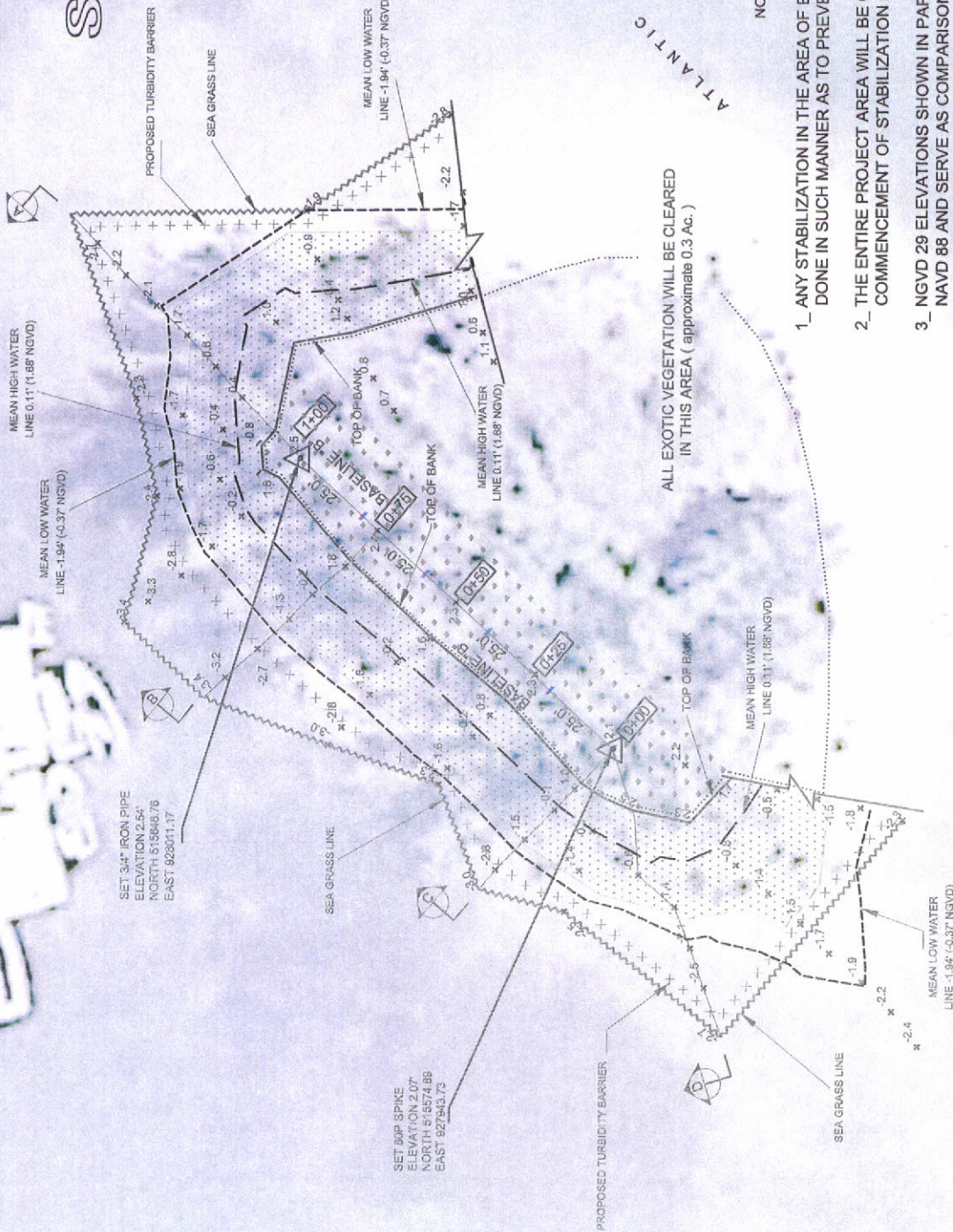


MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION	MIAMI MARINE STADIUM PARK SHORELINE STABILIZATION PROJECT SITE 1 & 2 (NOT FOR CONSTRUCTION)
FOR PERMIT ONLY	JOB: MARINE STADIUM FINGER (SITE 1) BY: J.M.C.
DATE: 02-11	SHIFT: 3 OF 8

- 1\_ ANY STABILIZATION IN THE AREA OF EXISTING BUTTONWOODS AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
- 2\_ THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
- 3\_ NGVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.
- 4\_ FOR INFORMATION REGARDING LIMITS OF EXISTING SUBMERGED RESOURCES AND LOCATIONS OF PROPOSED TURBIDITY CURTAINS, SEE CROSS SECTIONS ON SHEETS 5 AND 6.

JUAN A. GURIEL  
 State of Florida Professional Engineer  
 License No. 63890

# SITE 2



## LEGEND:

- EXISTING SEA GRASS LINE
- MEAN HIGH WATER LINE 0.11' (1.88' NGVD)
- MEAN LOW WATER LINE -1.94' (-0.37' NGVD)
- TOP OF BANK
- PROPOSED TURBIDITY BARRIER
- POINTS ELEV. (NAVD)
- PROPOSED UPLAND NATIVE VEGETATION
- PROPOSED LIMESTONE BOULDERS ABOVE A GEOTEXTILE FABRIC LAYER

PERIMETER OF EXOTIC VEGETATION TO BE CLEARED

TOTAL LINEAR FEET OF SHORELINE STABILIZATION : (approximate 350 L.F.)

SQUARE FOOTAGE OF RIPRAP = 6,615.0 SF

VOLUME OF RIPRAP = 490.0 CY

## NOTES:

- 1\_ ANY STABILIZATION IN THE AREA OF EXISTING BUTTONWOODS AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
- 2\_ THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
- 3\_ NGVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.
- 4\_ FOR INFORMATION REGARDING LIMITS OF EXISTING SUBMERGED RESOURCES AND LOCATIONS OF PROPOSED TURBIDITY CURTAINS, SEE CROSS SECTIONS ON SHEETS 7 AND 8.

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

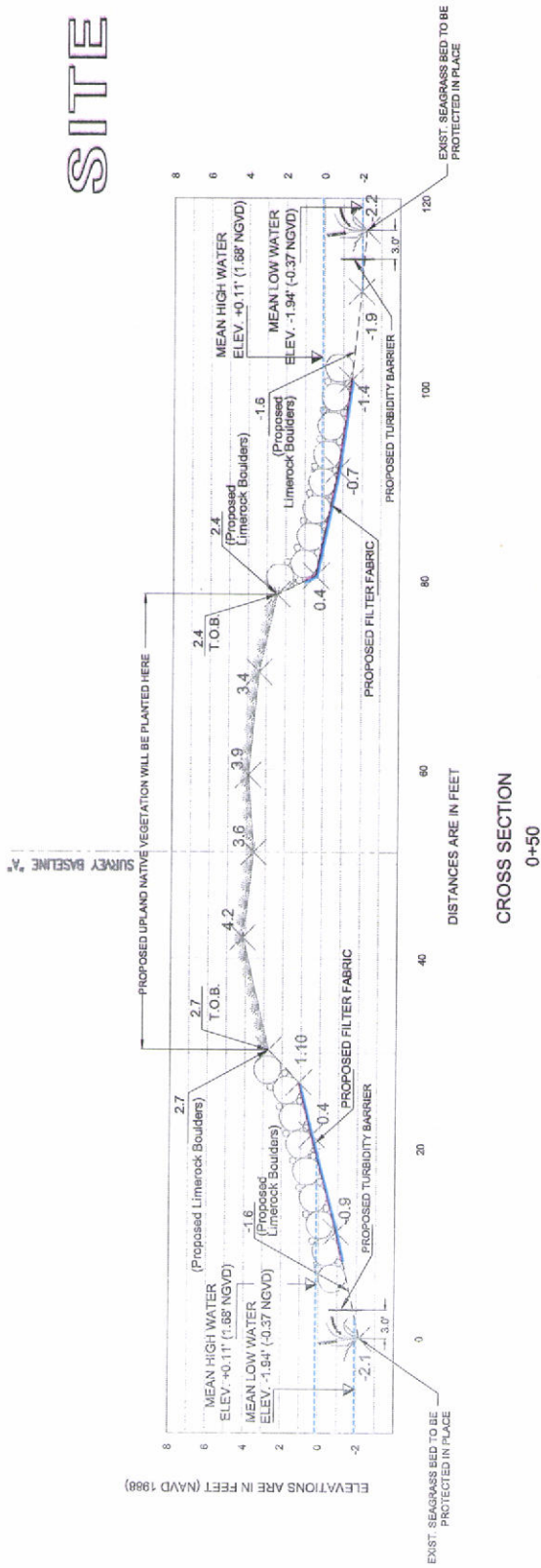
FOR PERMIT ONLY

JUAN A. GURIEL  
State of Florida Professional Engineer  
License No. 63890

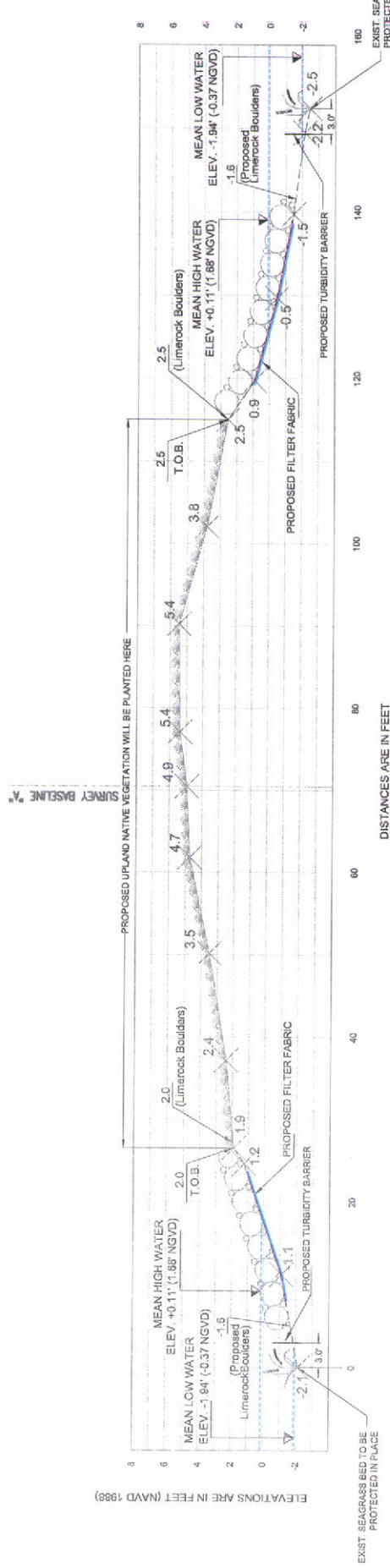
701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

JOB: MARINE STADIUM FINGER ISLAND  
SITE PLAN ( SITE 2 )  
DATE: 02-11  
BY: J.M.C.  
SHEET: 4 OF 8

# SITE 1



CROSS SECTION  
0+50



CROSS SECTION  
2+50

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

## NOTES

1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
2. 1-3" FOOT DIAMETER LIMEROCK BOULDERS.
3. ANY STABILIZATION IN THE AREA OF EXISTING BUTTOWOODS AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
4. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
5. NGVD 29 ELEVATIONS SHOWN IN PARENTHESES ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

FOR PERMIT ONLY

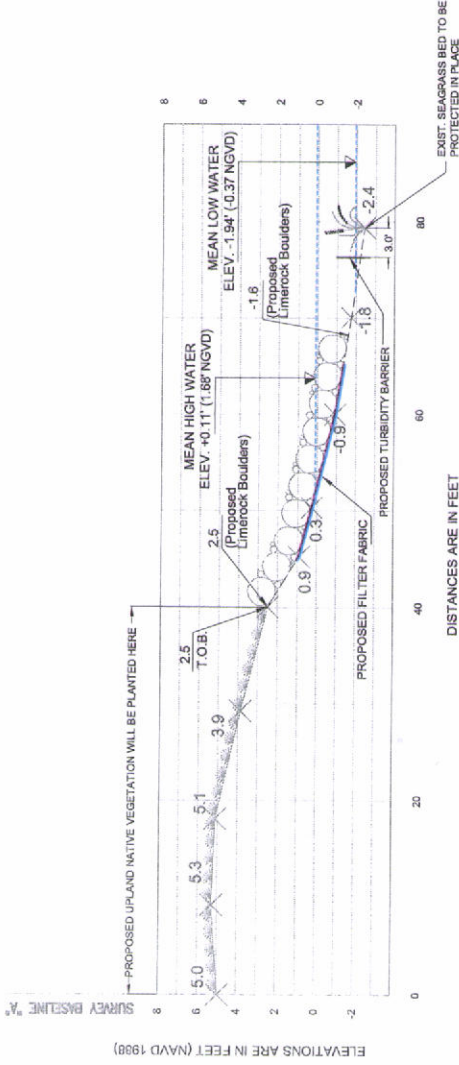
MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION  
701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

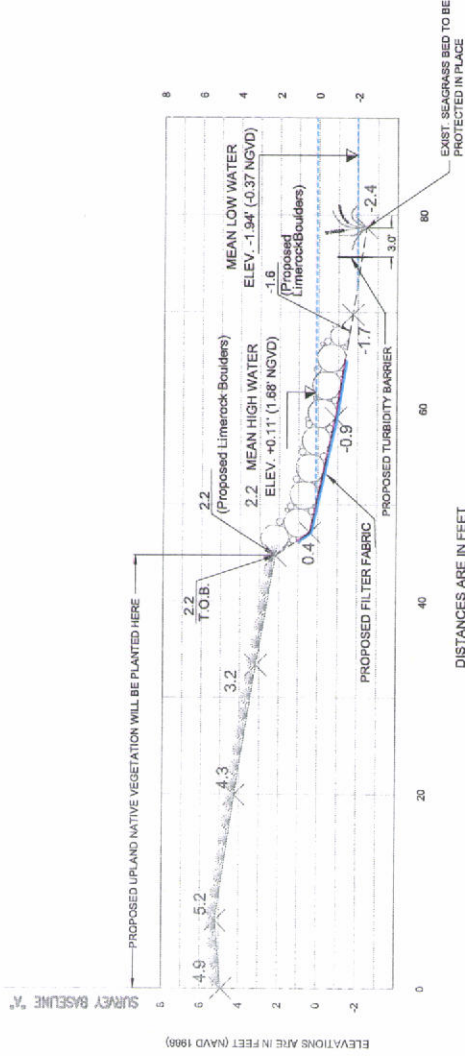
JUAN A. CUREL  
State of Florida Professional Engineer  
License No. 63890

JOB:  
TYPICAL CROSS SECTION - SITE 1 "A" & "B"  
BY:  
J.M.C.  
DATE:  
02-11  
SHEET:  
5 OF 8

# SITE 1



CROSS SECTION 4+50



CROSS SECTION 7+00

NOTES:

1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
2. 1'-3' FOOT DIAMETER LIMEROCK BOULDERS.
3. ANY STABILIZATION IN THE AREA OF EXISTING BUTTOWOODS AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
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5. NGVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

FOR PERMIT ONLY

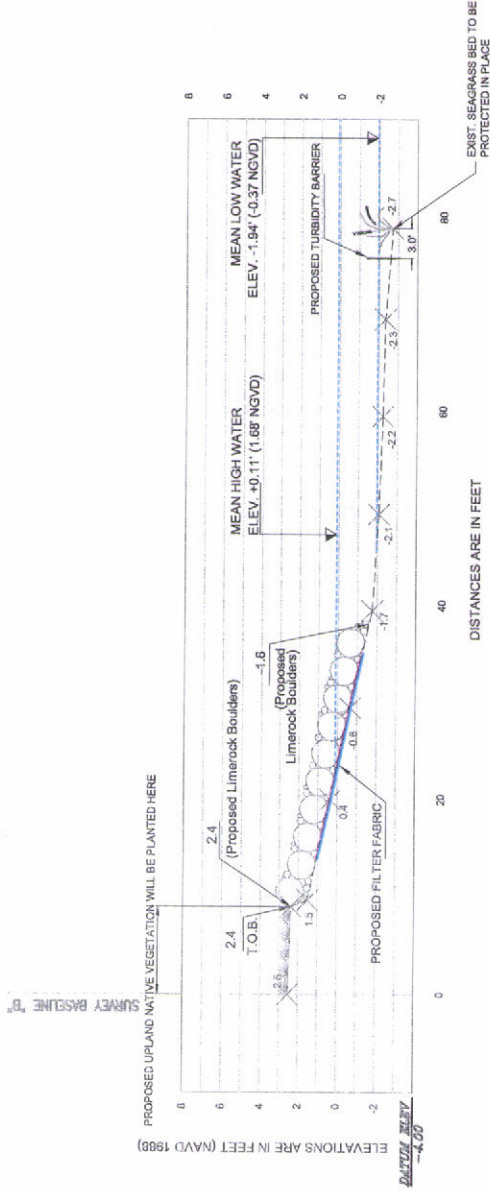
JUAN A. CUREL  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION  
701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

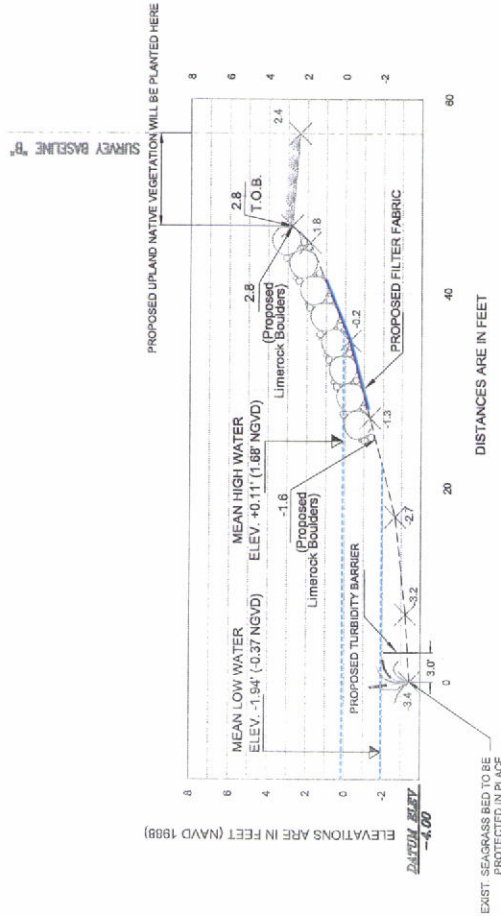
MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

JOB: TYPICAL CROSS SECTION \_ SITE 1 "C" & "D"  
DATE: 02-11  
BY: J.M.C.  
SHEET: 6 OF 8

# SITE 2



**CROSS SECTION**  
98° CLOCKWISE FROM STATION 1+00  
(ALONG SAME PLANE)



**CROSS SECTION**  
0+75

## NOTES:

1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
2. 1'-3' FOOT DIAMETER LIMEROCK BOULDERS.
3. NGVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

FOR PERMIT ONLY

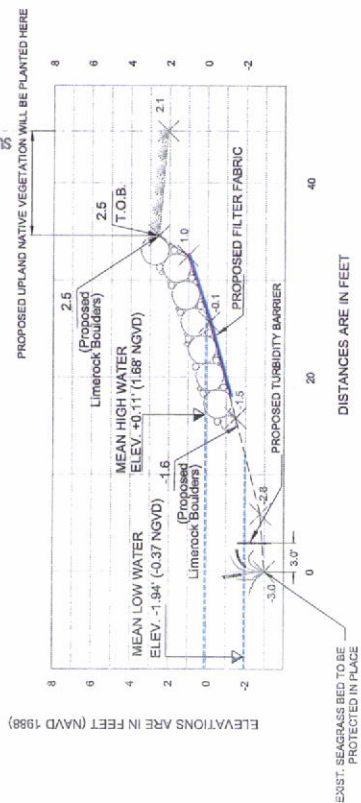
JUAN A. CURIEL  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION  
701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

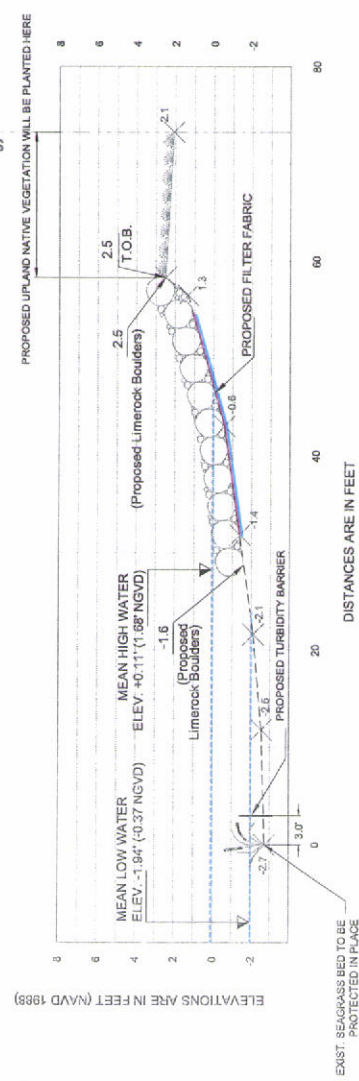
JOB:  
TYPICAL CROSS SECTION - SITE 2 "A" & "B"  
DATE: 02-11  
BY: J.M.C.  
SHEET: 7 OF 8

# SITE 2



CROSS SECTION  
0+00

SURVEY BASELINE "B"



CROSS SECTION  
30' COUNTERCLOCKWISE FROM STATION 0+00

NOTES:

- 1\_ PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
- 2\_ 1'-3' FOOT DIAMETER LIMEROCK BOULDERS.
- 3\_ NGVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

FOR PERMIT ONLY	<p>JUAN A. CUREL State of Florida Professional Engineer License No. 63890</p>	<p>MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION</p> <p>701 NW 1st Court, 5th Floor MIAMI, FLORIDA 33136</p>	<p>MIAMI MARINE STADIUM PARK SHORELINE STABILIZATION PROJECT SITE 1 &amp; 2 (NOT FOR CONSTRUCTION)</p> <p>JOB: TYPICAL CROSS SECTION _ SITE 2 "C" &amp; "D" DATE: 02-11 BY: J.M.C. SHEET: 8 OF 8</p>
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**King, Jill M.**

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**From:** King, Jill M.  
**Sent:** Thursday, July 21, 2011 3:22 PM  
**To:** 'Mahoney, Josh (DERM)'  
**Subject:** City of Miami-Miami Marine Stadium shoreline stabilization

**Josh:**

**I went ahead and reviewed the information that you sent over regarding the Miami Marine Stadium Park shoreline stabilization project/File #13-0306269-001. The application is complete pending the signed and sealed drawings to put into the permit document. Again, I'm sorry that I missed this package, it was at the bottom of the other response but I still should have caught it!!**

**Please send those over signed and sealed drawings over along with returning the check back to us (again I apologize) so that we can move forward with drafting and issuing the permit.**

**Have a good one!**

**Jill**

**Jill King  
Environmental Manager  
Department of Environmental Protection  
400 N. Congress Avenue, Suite 200  
West Palm Beach, FL 33401  
Phone: (561) 681-6638  
Fax: (561) 681-6780  
Email: [Jill.M.King@dep.state.fl.us](mailto:Jill.M.King@dep.state.fl.us)**



miamidade.gov

**Department of Environmental Resources Management**

Natural Resources Regulation and Restoration Division

701 NW 1st Court, 6th Floor

Miami, Florida 33136-3912

T 305-372-6567 F 305-372-6407

RECEIVED

JUN 27 2011

FL DEP  
WEST PALM BEACH

June 23, 2011

Benny Luedike  
Florida Department of Environmental Protection  
Submerged Lands & Environmental Resources Program  
400 N. Congress Avenue, Suite 200  
West Palm Beach, Florida 33401

RE: Miami Marine Stadium Park Shoreline Stabilization (File No. 13-0306269-001)

Dear Mr. Luedike:

Please accept this letter in response to your completeness summary for the above referenced application, dated May 20, 2011 (copy enclosed).

1. Attached please find a check for the \$710.00 processing fee made payable to the Department of Environmental Protection, referencing file No. 13-0306269-001.
2. Please see attached exhibits with water depths adjacent to the proposed equipment/material offloading areas at Sites 1 and 2 and the proposed landside loading site. Water depths were recorded at low tide on June 9, 2011.
3. Specifications for the barge that will be utilized during construction are not known at this time. A shallow-draft barge with crane will be utilized for the placement of limestone boulders at Site 2. All work at Site 1 will be conducted from the uplands via an existing access road to the site. The construction contract and bidding documents will have special provisions that address the protection of sensitive environmental resources. To minimize the potential for unintended resource impacts, offloading by barge shall only be done at high tide.
4. Please see attached exhibits depicting proposed temporary staging area on Site 2 and the use of erosion control devices (i.e., silt fence) between the surface waters and the temporary staging area. Clean limestone boulders, approximately 1'-3' in diameter, and rolls of filter fabric may be stored in this area and aboard the barge during construction.

RECEIVED

*Delivering Excellence Every Day* JUN 27 2011

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WEST PALM BEACH

RECEIVED

JUN 27 2011

FL DEP  
WEST PALM BEACH

5. Upon final acceptance of the permit drawings, scaled and fully dimensional, engineered signed and sealed drawings on 8.5 inch by 11 inch paper will be submitted.

Sheets 3 (Site 1)

- a) Attached please find revised drawings that include the square footage and volume (CY) of riprap to be installed at each island and for each segment of shoreline stabilization.
- b) The limits of the existing seagrass line and proposed turbidity barrier to be used during construction have been labeled.

Sheet 4 (Site 2)

- a) Attached please find revised drawings that include the square footage and volume (CY) of riprap to be installed at each island and for each segment of shoreline stabilization.
- b) The limits of the existing seagrass line and proposed turbidity barrier to be used during construction have been labeled.
- c) The length of shoreline to be stabilized is 350 linear feet.

Please contact me directly if you have any questions or need any additional information.

Sincerely,



Joshua Mahoney, Biologist II  
Restoration and Enhancement Section

cc: Tony Crapp – City of Miami ([tcraff@miamigov.com](mailto:tcraff@miamigov.com))

Jessica Hammers – U.S. Army Corps of Engineers ([jessica.l.hammers@usace.army.mil](mailto:jessica.l.hammers@usace.army.mil))

Jill King – Florida Department of Environmental Protection ([jill.m.king@dep.state.fl.us](mailto:jill.m.king@dep.state.fl.us))

Felix Alvarez – Miami-Dade County DERM ([alvarf@miamidade.gov](mailto:alvarf@miamidade.gov))



## Florida Department of Environmental Protection

Southeast District Office  
400 N. Congress Avenue, Suite 200  
West Palm Beach, FL 33401  
561-681-6600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

MAY 20 2011

City of Miami  
c/o Tony Crapp Jr., City Manager  
444 S.W. 2nd Avenue, 10th Floor  
Miami, FL 33130  
via email: [tcrapp@miamigov.com](mailto:tcrapp@miamigov.com)

File No.: 13-0306269-001  
Applicant: City of Miami (Marine Stadium Spoil Islands)

Dear Mr. Crapp:

This is to acknowledge receipt of your application on April 20, 2011, for a standard general permit, pursuant to Part IV, Chapter 373, Florida Statutes to install riprap along the shoreline of two spoil islands at four separate locations.

In order to review your application, we need the items listed in Part I of the enclosed request for additional information (RAI) by **August 18, 2011**. If necessary, you may request one extension up to 90 additional days. If neither the information nor a request for an extension is received by August 17, 2011, your application may be denied without prejudice. If you revise your project after submitting the initial joint application, please contact us as soon as possible.

We appreciate your cooperation. If you have any questions, please contact me at 561/681-6646 or by email at [Benny.Luedike@dep.state.fl.us](mailto:Benny.Luedike@dep.state.fl.us).

Sincerely,

Benny Luedike  
Environmental Specialist III  
Submerged Lands & Environmental Resources Program

Enclosures

cc: Kellie Youmans, FFWCC Bureau of Imperiled Species Management, [Kellie.Youmans@myfwc.com](mailto:Kellie.Youmans@myfwc.com)  
Joshua Mahoney, Authorized Agent, Miami-Dade DERM, [Mahonj@miamidade.gov](mailto:Mahonj@miamidade.gov)  
Felix Alvarez, Miami-Dade DERM, [Alvarf@miamidade.gov](mailto:Alvarf@miamidade.gov)

Applicant: City of Miami (Marine Stadium Spoil Islands)

File No.: 13-0306269-001

Page 1 of 3

Date Requested: MAY 20 2011

COMPLETENESS SUMMARY/RAI

(Chapter 62-330 or 62-343, Florida Administrative Code)

Part I

PROCESSING FEE

- [ ] 1. Please include a \$710.00 processing fee made payable to the Department of Environmental Protection, referencing FDEP file No. 13-0306269-001.

PROTECTION OF WATER QUALITY & SUBMERGED RESOURCES

- [ ] 2. Thank you for the provided staging and offloading exhibit. Please provide bathymetric data for the waters adjacent to the offloading area for each project site.
- [ ] 3. Provide details regarding the anticipated construction barge that will be transporting construction material to and from the offloading areas, including size and fully-loaded draft of the vessel(s).
- [ ] 4. Provide a typical plan view and cross-section of the storage area, showing the use of erosion control devices installed between the surface waters and the temporary staging area.

FINAL DRAWINGS

- [ ] 5. Prior to application completion, scaled and fully dimensioned, engineered signed and sealed drawings on 8.5 inch by 11 inch paper shall be submitted showing the following additional information:

Plan View Drawings:

Sheet 3 (Site 1)-

- a) Please provide the square footage and volume (CY) of riprap to be installed at each island and for each separate location.
- b) Label the limits of the existing submerged resources and proposed turbidity curtain to be utilized during construction.

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- a) Please provide the square footage and volume (CY) of riprap to be installed at each island and for each separate location.
- a) Label the limits of the existing submerged resources and proposed turbidity curtain to be utilized during construction.
- b) Clarify the linear footage note, since the application states 450 linear feet to be installed and the drawing states 350 linear feet.

---

BUREAU OF IMPERILED SPECIES MANAGEMENT (FFWCC) REVIEW

*Your project has been sent to the Florida Fish and Wildlife Conservation Commission (FFWCC), Bureau of Protected Species Division, for evaluation of potential effects from this project on endangered or threatened species. Please note that additional questions may follow as a result of this review.*

---

FOR YOUR INFORMATION

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Your project may be located within or adjacent to:

- ☐ Biscayne Bay Aquatic Preserve
- ☐ manatee habitat
- ☐ turtle habitat

and may be affected by comments from those entities having special interest in the project. Modifications to your project may be necessary upon receipt of the requested comments.

Your proposal may require a coastal construction permit from the Department's Bureau of Beaches and Coastal Systems. Please contact them at 3900 Commonwealth Boulevard, Mail Station 310, Tallahassee, Florida 32399, (phone: 904/488-3181 or 487-4475), to obtain a determination.

An inspection of the project site may be conducted to determine and evaluate the resources expected to be impacted. Project modifications may be required following the inspection.

Your project is in Class III Waters. According to 373.414(1), F.S., you must provide reasonable assurance that applicable water quality standards, as adopted in Rule 62-302, F.A.C., will not be violated.

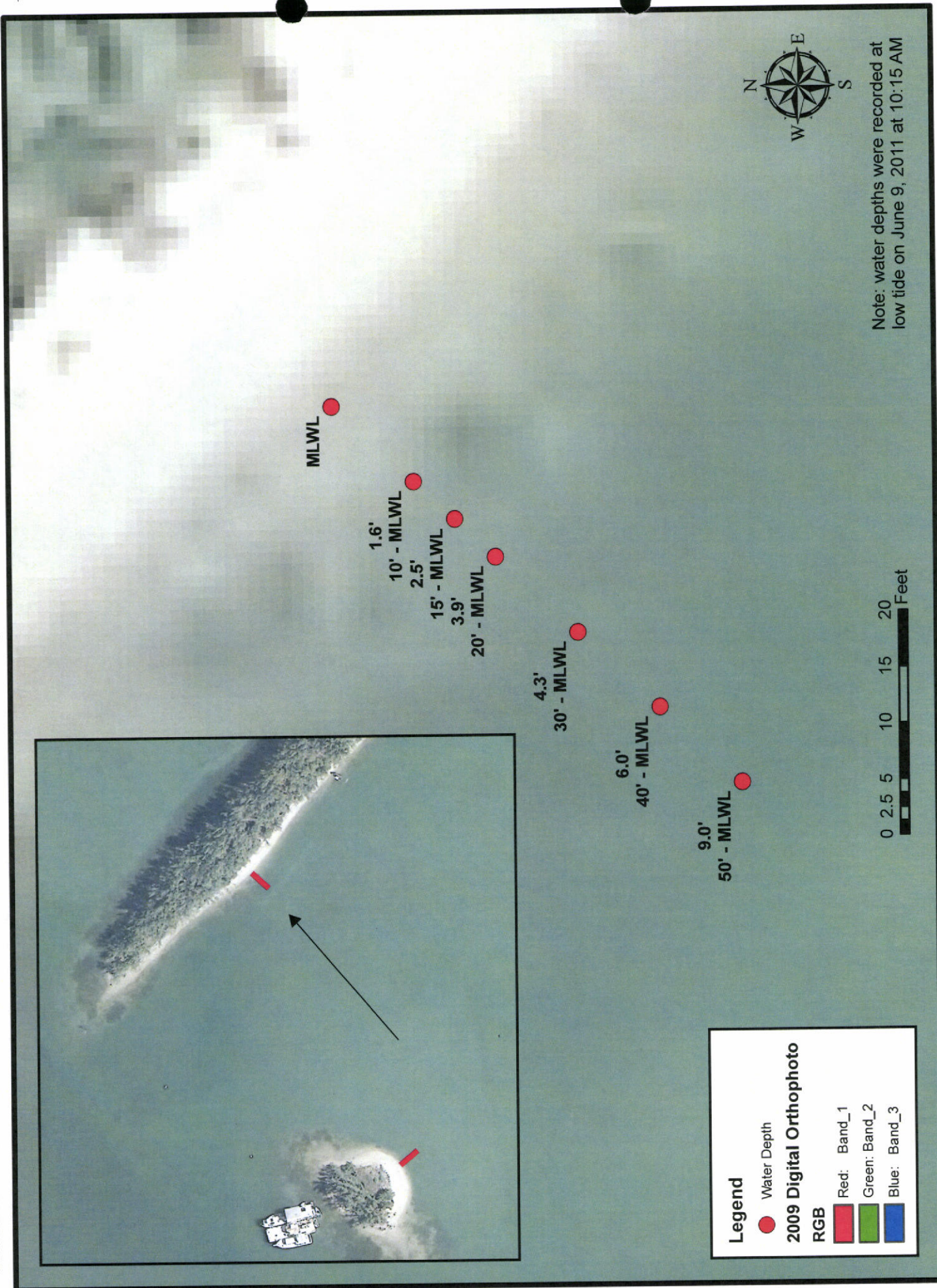
In addition, you must provide reasonable assurance that this activity is not contrary to the public interest. However, if an activity significantly degrades or is within an Outstanding Florida Water (OFW), that project must be shown to be clearly in the public interest. Your project is within an OFW. In determining whether a project is clearly in the public interest, the Department will consider and balance the following criteria:

1. Whether the project will adversely affect the public health, safety, or welfare or the property of others;
2. Whether the project will adversely affect the conservation of fish and wildlife, including endangered or threatened species, or their habitats;
3. Whether the project will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
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6. Whether the project will adversely affect or will enhance significant historical and archeological resources under the provisions of section 267.061; and
7. The current condition and relative value of functions being performed by areas affected by the proposed activity. [See 373.414, F.S.]

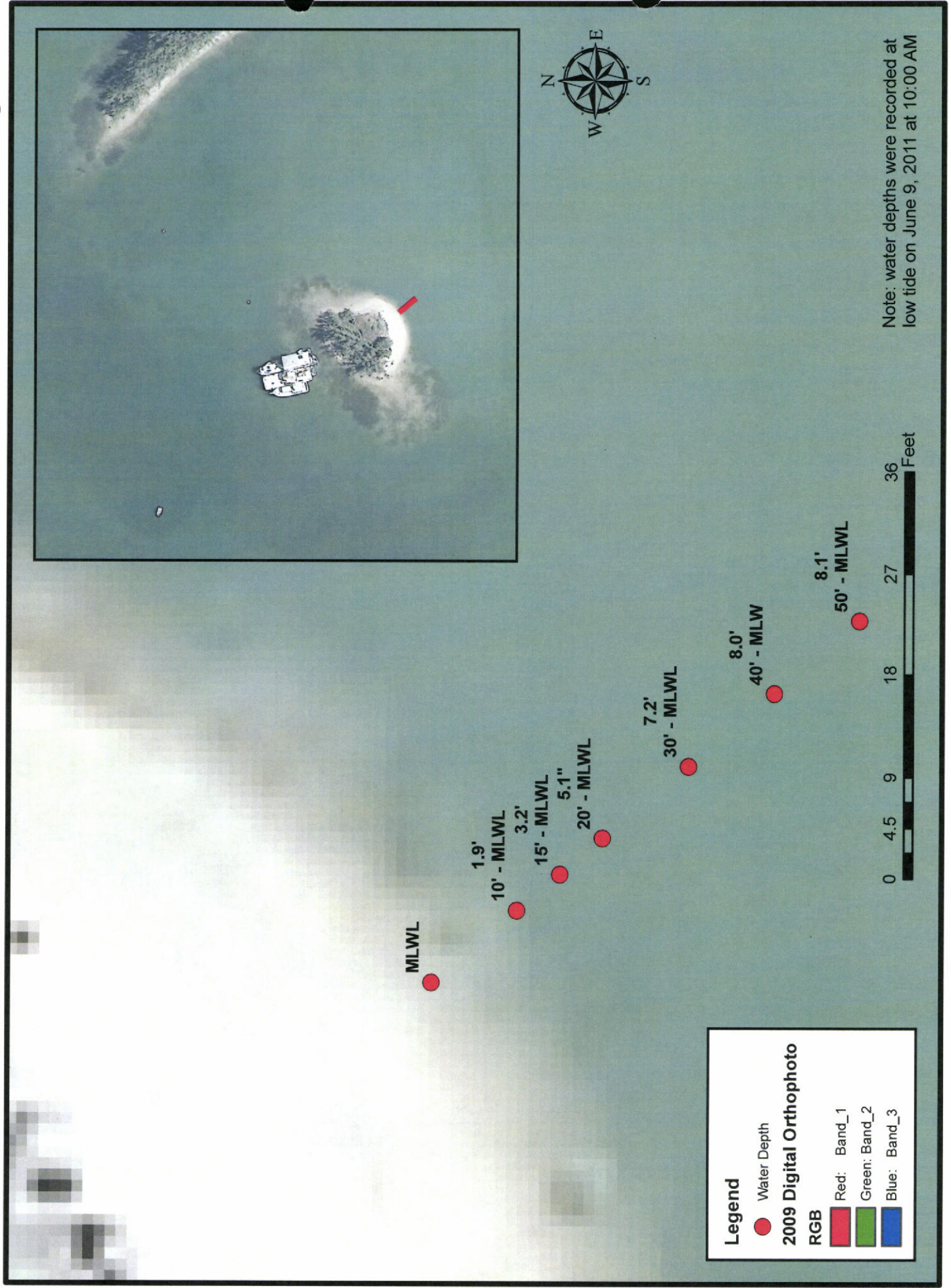
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[373.414(b), F.S.]

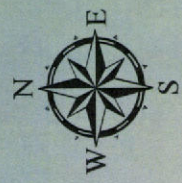
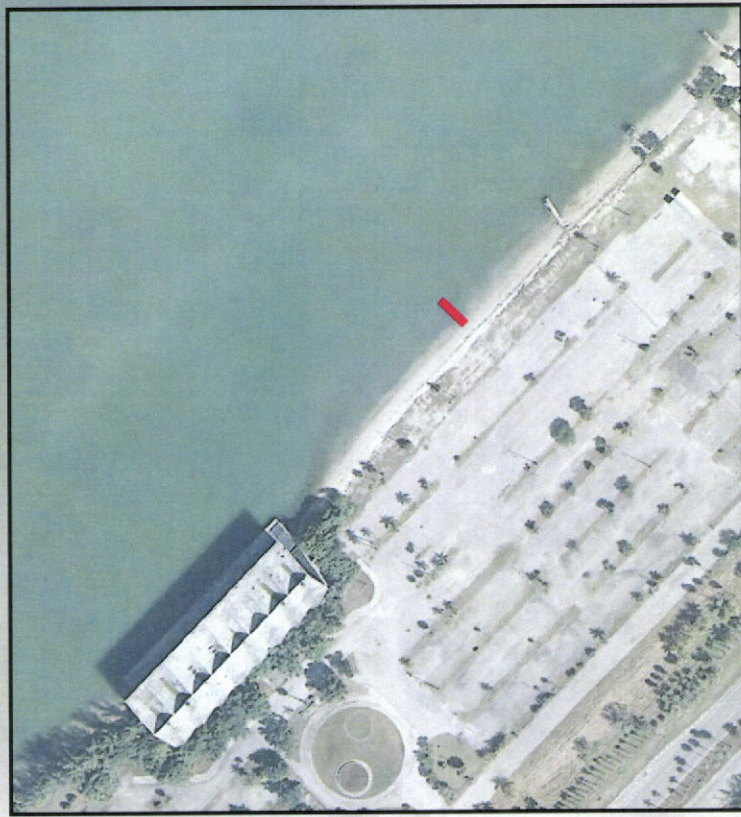
# Miami Marine Stadium Park Site 1: Water Depths Adjacent to Proposed Offloading Area



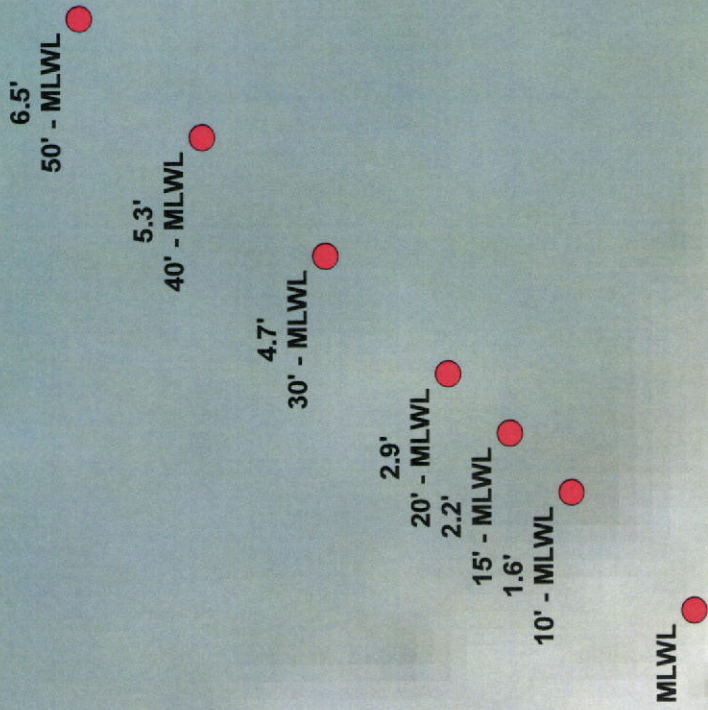
# Miami Marine Stadium Park Site 2: Water Depths Adjacent to Proposed Offloading Area



# Miami Marine Stadium Park: Water Depths Adjacent to Proposed Loading Area



Note: water depths were recorded at low tide on June 9, 2011 at 10:30 AM



**Legend**

● Water Depth

**2009 Digital Orthophoto**

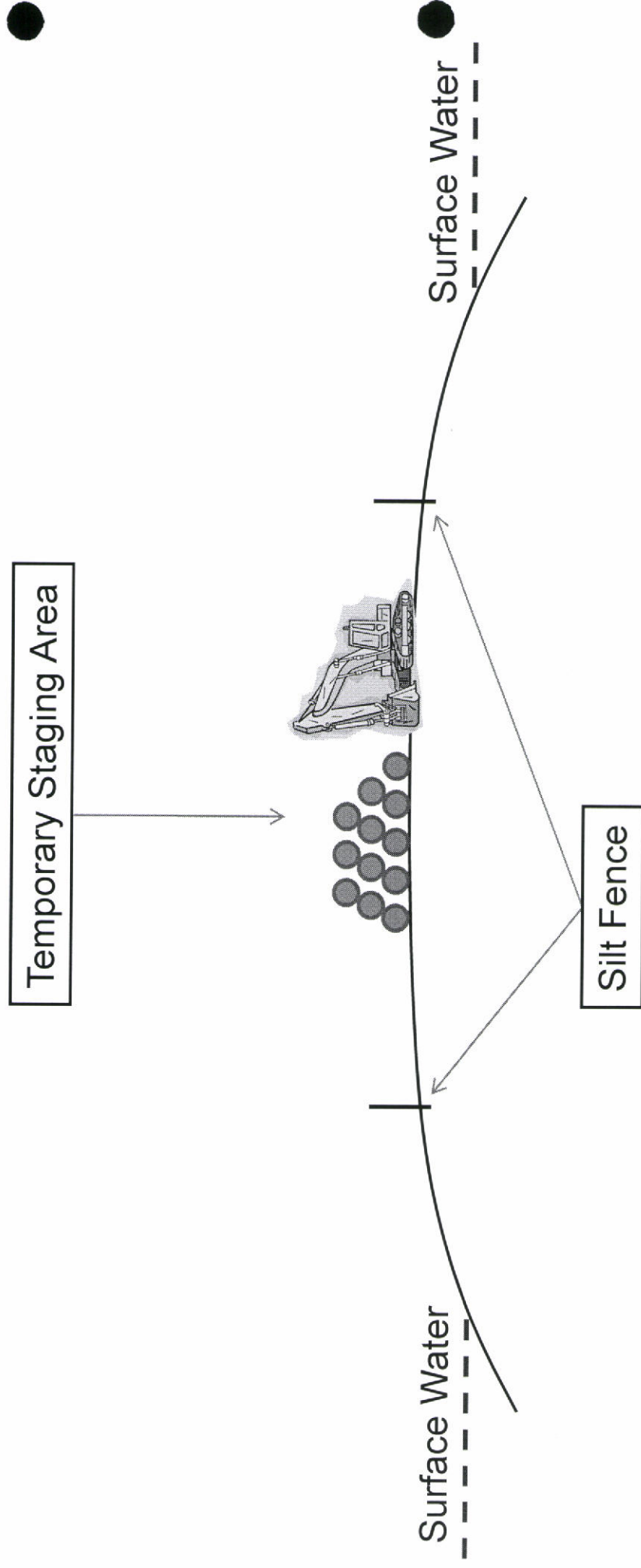
**RGB**

<span style="display:inline-block; width:15px; height:15px; background-color:red; border:1px solid black;"></span> Red: Band_1
<span style="display:inline-block; width:15px; height:15px; background-color:green; border:1px solid black;"></span> Green: Band_2
<span style="display:inline-block; width:15px; height:15px; background-color:blue; border:1px solid black;"></span> Blue: Band_3

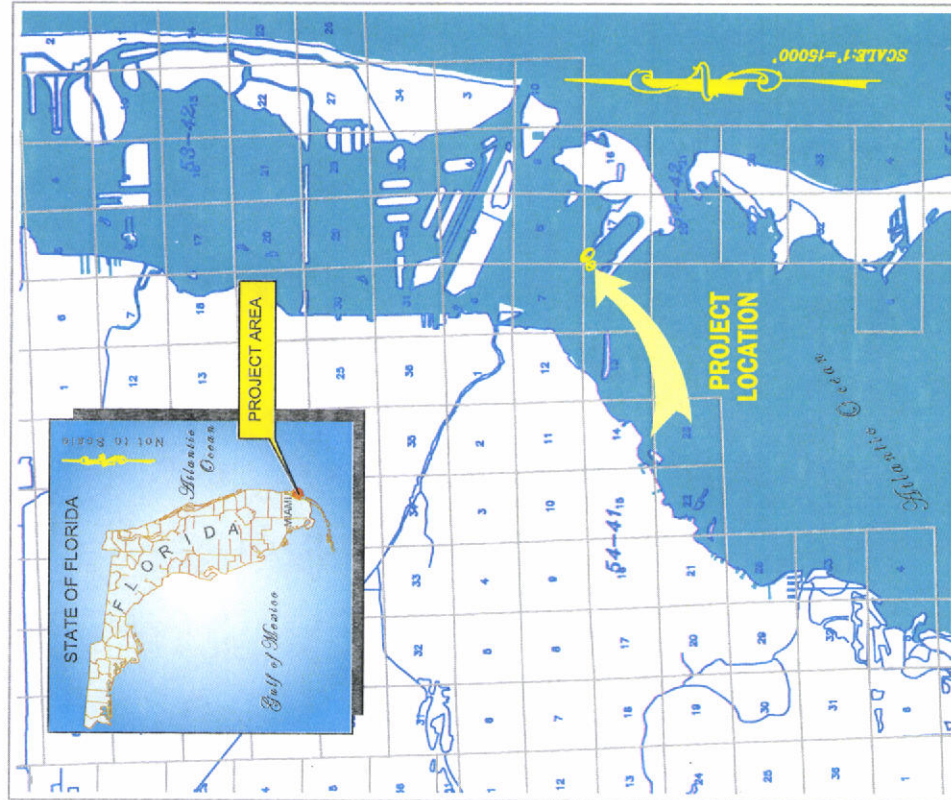
# Miami Marine Stadium Park Site 2 Proposed Staging Area



# Temporary Staging Area: Typical Cross-Section



MIAMI DADE COUNTY  
DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT (DERM)  
NOT FOR CONSTRUCTION; FOR PERMIT ONLY



## LOCATION MAP

SECTIONS: 8,17,18      TWN: 54      RANGE: 42

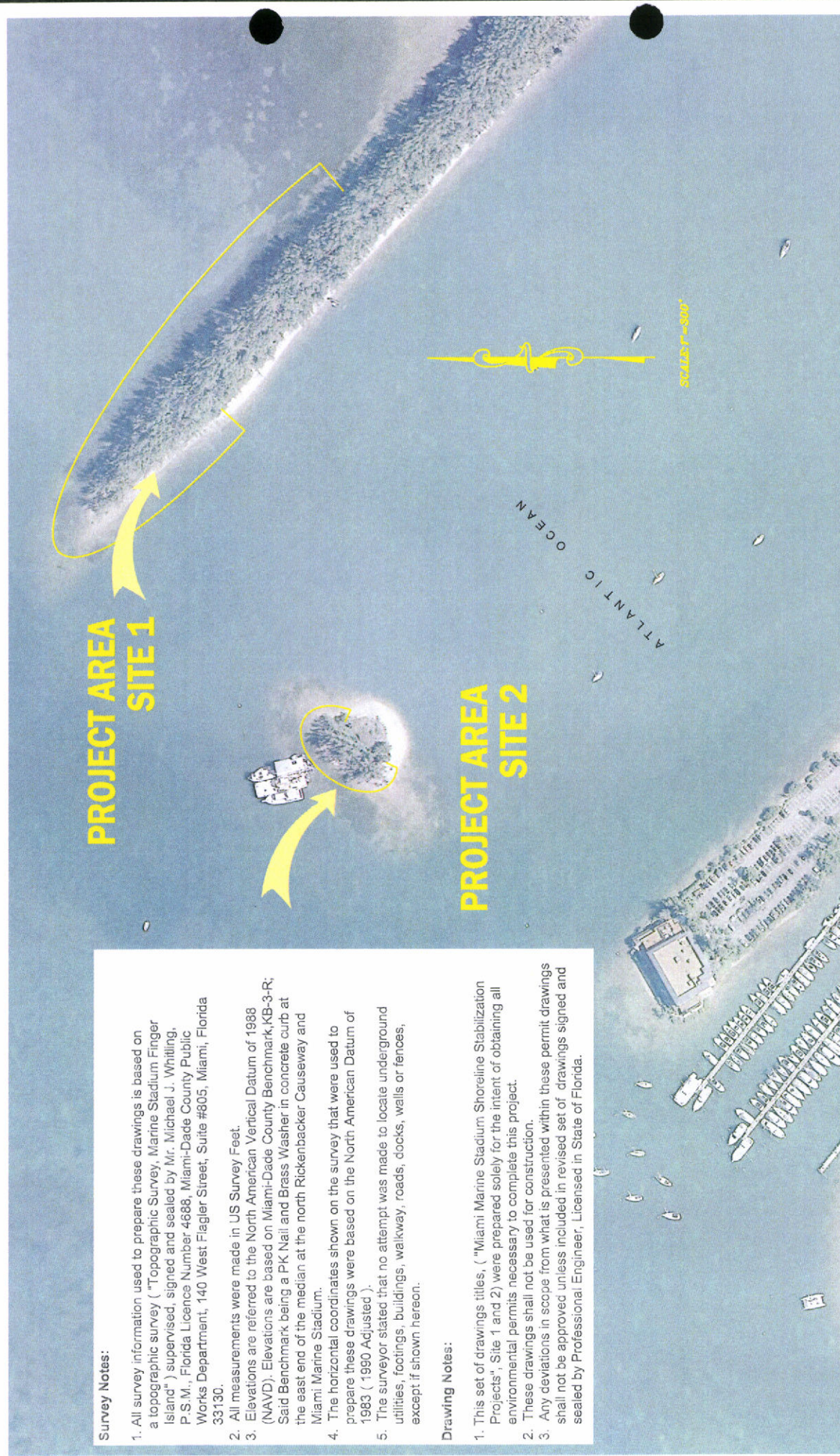


VICINITY MAP

FOR PERMIT ONLY

<p>INDEX OF SHEETS</p> <p>1. VICINITY MAP &amp; INDEX OF DRAWINGS</p> <p>2. AERIAL PICTURES OF AREA AND NOTES</p> <p>3. MARINE STADIUM FINGER ISLAND, SITE PLAN (SITE 1)</p> <p>4. MARINE STADIUM FINGER ISLAND, SITE PLAN (SITE 2)</p> <p>5. TYPICAL CROSS SECTION, SITE 1 "A" &amp; "B"</p> <p>6. TYPICAL CROSS SECTION, SITE 1 "C" &amp; "D"</p> <p>7. TYPICAL CROSS SECTION, SITE 2 "A" &amp; "B"</p> <p>8. TYPICAL CROSS SECTION, SITE 2 "C" &amp; "D"</p>	<p>JUAN A. CUriEL</p> <p>State of Florida Professional Engineer</p> <p>License No. 63890</p>	<p>MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION</p> <p>701 NW 1st Court, 5th Floor MIAMI, FLORIDA 33136</p>	<p>MIAMI MARINE STADIUM PARK SHORELINE STABILIZATION PROJECT SITE 1 &amp; 2 ( NOT FOR CONSTRUCTION )</p>	<p>JOB#: VICINITY MAP &amp; INDEX OF DRAWINGS</p> <p>DATE: 02-11</p> <p>BY: J.M.C.</p> <p>SHEET: 1 OF 8</p>
---	--	---	--	---

# MARINE STADIUM FINGER ISLANDS



## Survey Notes:

1. All survey information used to prepare these drawings is based on a topographic survey ( "Topographic Survey, Marine Stadium Finger Island" ) supervised, signed and sealed by Mr. Michael J. Whitting, P.S.M., Florida Licence Number 4688, Miami-Dade County Public Works Department, 140 West Flagler Street, Suite #805, Miami, Florida 33130.
2. All measurements were made in US Survey Feet.
3. Elevations are referred to the North American Vertical Datum of 1988 (NAVD). Elevations are based on Miami-Dade County Benchmark, KB-3-R; Said Benchmark being a PK Nail and Brass Washer in concrete curb at the east end of the median at the north Rickenbacker Causeway and Miami Marine Stadium.
4. The horizontal coordinates shown on the survey that were used to prepare these drawings were based on the North American Datum of 1983 ( 1990 Adjusted ).
5. The surveyor stated that no attempt was made to locate underground utilities, footings, buildings, walkway, roads, docks, walls or fences, except if shown hereon.

## Drawing Notes:

1. This set of drawings titles, ( "Miami Marine Stadium Shoreline Stabilization Projects", Site 1 and 2 ) were prepared solely for the intent of obtaining all environmental permits necessary to complete this project.
2. These drawings shall not be used for construction.
3. Any deviations in scope from what is presented within these permit drawings shall not be approved unless included in revised set of drawings signed and sealed by Professional Engineer, Licensed in State of Florida.

FOR PERMIT ONLY

JUAN A. CUREL  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
( NOT FOR CONSTRUCTION )

JOB: AERIAL PICTURES OF AREA AND NOTES

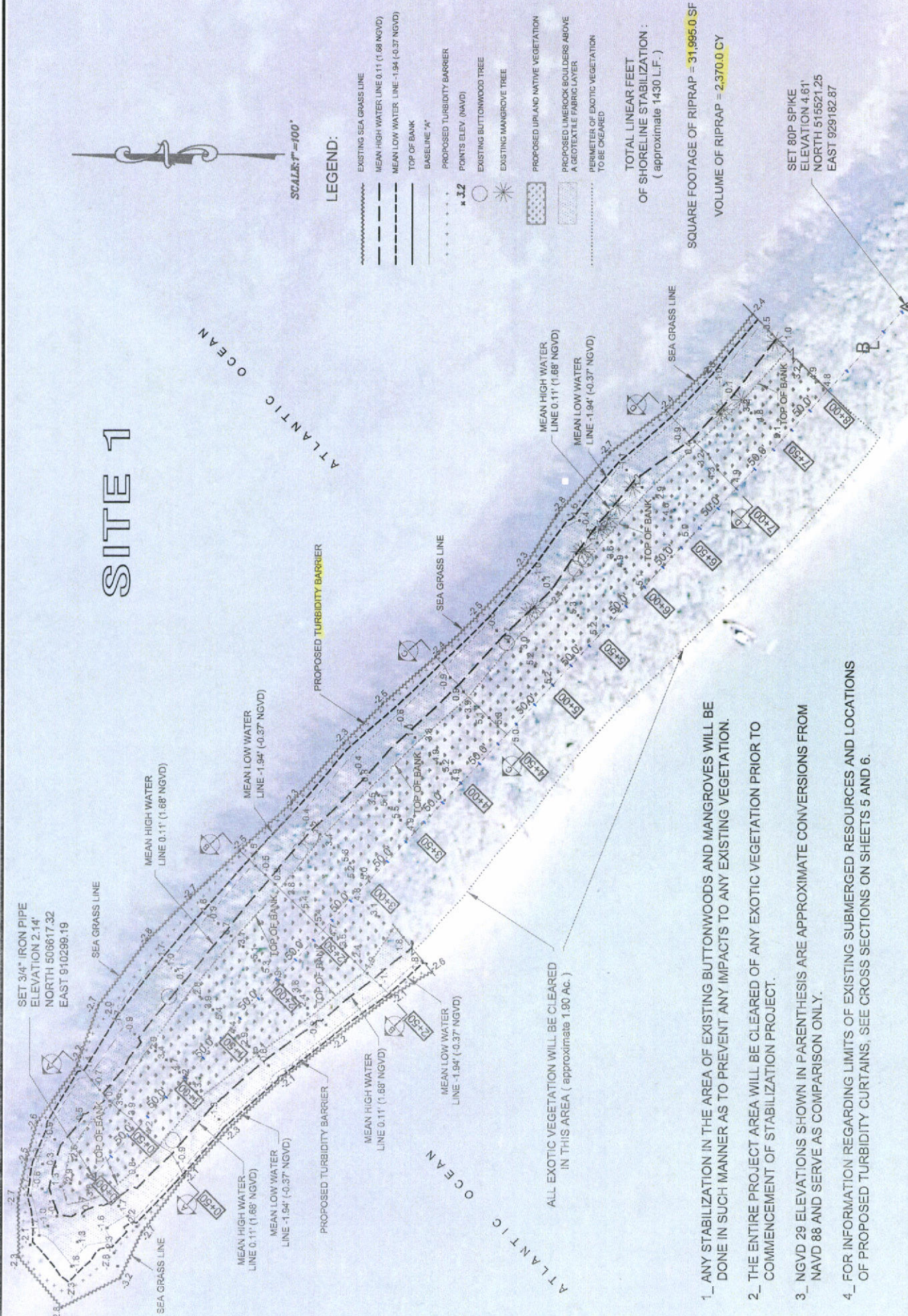
DATE: 02-11

BY:

J.M.C.

SHEET: 2 OF 8

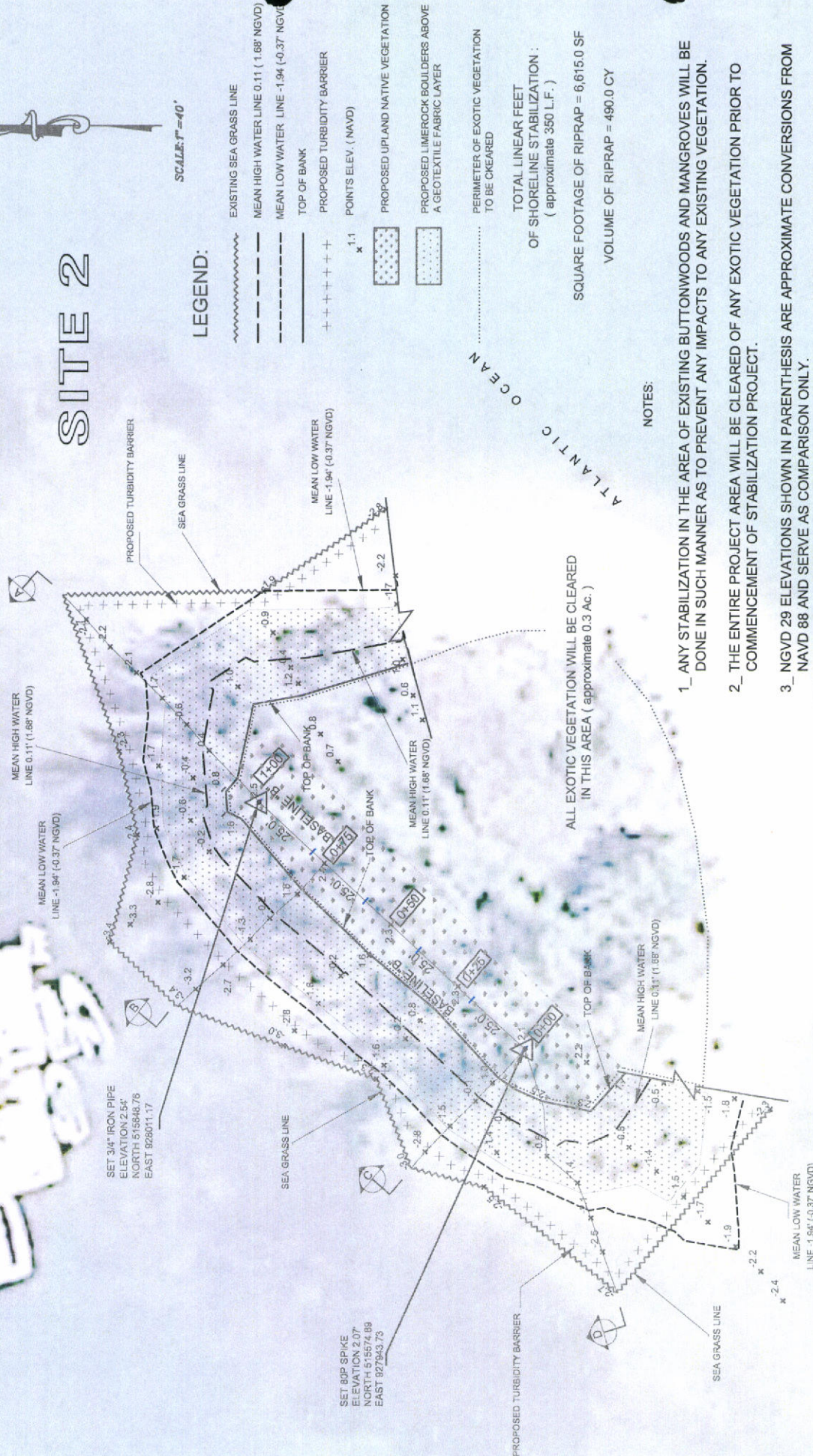
# SITE 1



- 1\_ ANY STABILIZATION IN THE AREA OF EXISTING BUTTONGROVES AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
- 2\_ THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
- 3\_ NGVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.
- 4\_ FOR INFORMATION REGARDING LIMITS OF EXISTING SUBMERGED RESOURCES AND LOCATIONS OF PROPOSED TURBIDITY CURTAINS, SEE CROSS SECTIONS ON SHEETS 5 AND 6.

FOR PERMIT ONLY	JUAN A. CUREL State of Florida Professional Engineer License No. 63890	MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION  701 NW 1st Court, 5th Floor MIAMI, FLORIDA 33136	MIAMI MARINE STADIUM PARK SHORELINE STABILIZATION PROJECT SITE 1 & 2 (NOT FOR CONSTRUCTION)	
			JOB: MARINE STADIUM FINGER ISLAND SITE PLAN ( SITE 1 ) BY: J.M.C.	DATE: 02-11 SHEET: 3 OF 8

# SITE 2

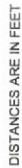


FOR PERMIT ONLY	JUAN A. CUIEL  State of Florida Professional Engineer  License No. 63890	MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION  701 NW 1st Court, 5th Floor MIAMI, FLORIDA 33136	MIAMI MARINE STADIUM PARK SHORELINE STABILIZATION PROJECT SITE 1 & 2 ( NOT FOR CONSTRUCTION )	
			JOB: MARINE STADIUM FINGER ISLAND SITE PLAN ( SITE 2 )	DATE: 02-11
			BY: J.M.C.	SHEET: 4 OF 8

## SURVEY BASELINE "A"



CROSS SECTION  
0+50



CROSS SECTION  
2+50

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
2. 1'-3" FOOT DIAMETER LIMESTONE BOULDERS.
3. ANY STABILIZATION IN THE AREA OF EXISTING BUTTONGROVES AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
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FOR PERMIT ONLY

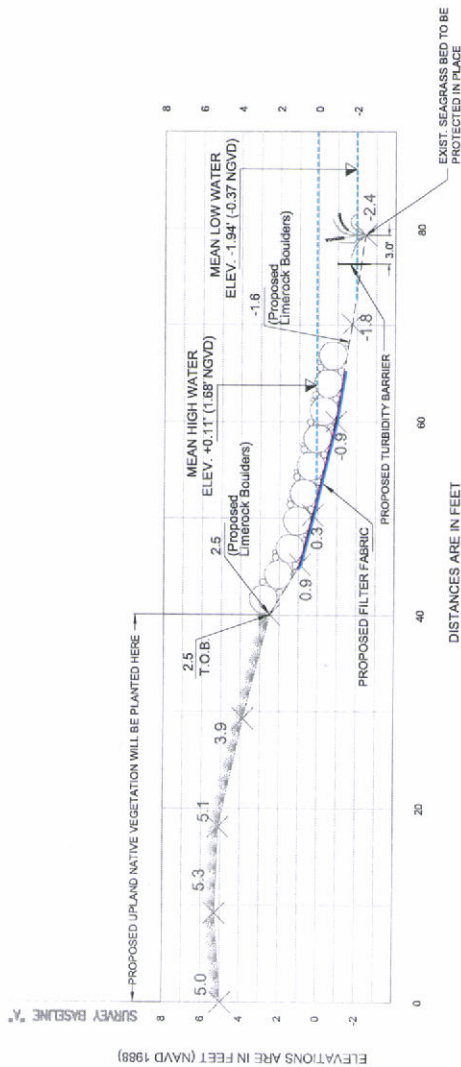
JUAN A. CUIEL  
State of Florida Professional Engineer  
License No. 63890

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
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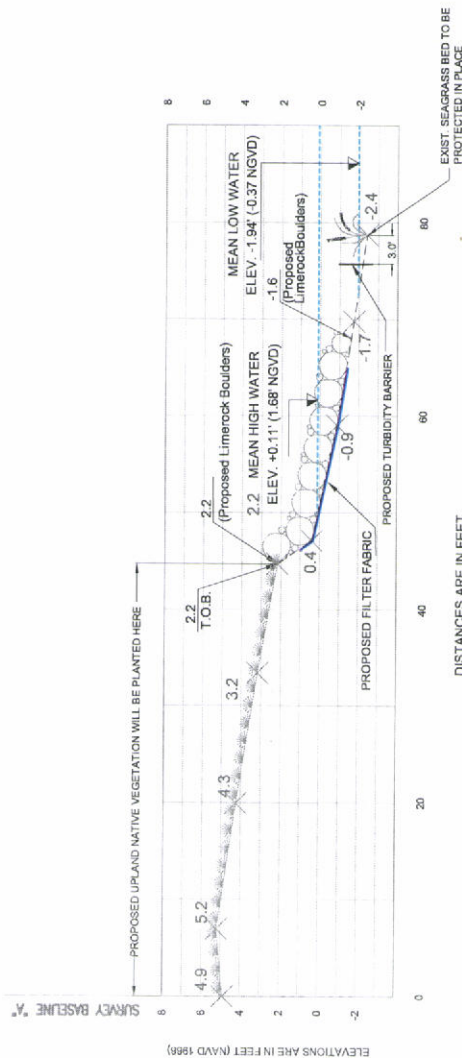
701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

JOB:	TYPICAL CROSS SECTION _ SITE 1 "A" & "B"	DATE:	02-11
BY:	J.M.C.	SHEET:	5 OF 8

# SITE 1



CROSS SECTION 4+50



CROSS SECTION 7+00

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

## NOTES:

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FOR PERMIT ONLY

JUAN A. CUREL  
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License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
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701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
( NOT FOR CONSTRUCTION )

DATE:	02-11
BY:	J.M.C.
SHIFTS:	6 OF 8

## SURVEY BASELINE "B"

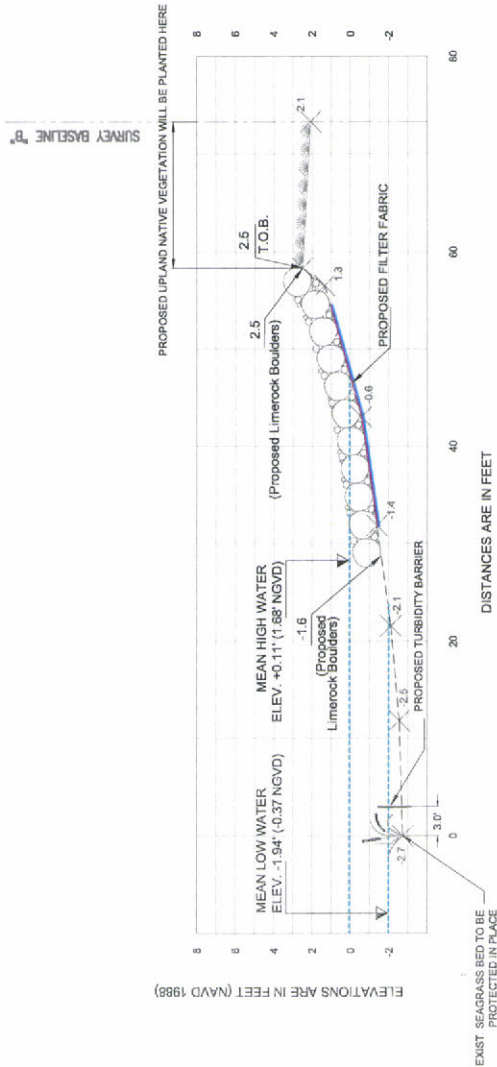
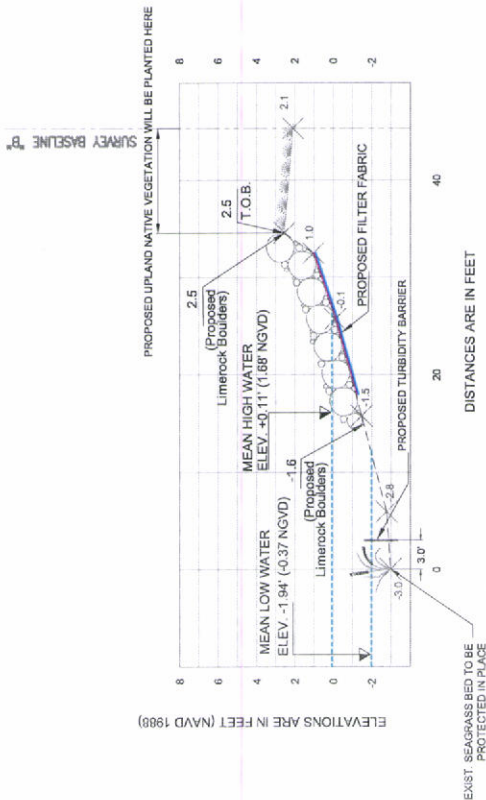


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<p>FOR PERMIT ONLY</p>	<p>JUAN A. CUriEL State of Florida Professional Engineer License No. 63890</p>	<p>MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION</p>	<p>701 NW 1st Court, 5th Floor MIAMI, FLORIDA 33136</p>	<p>MIAMI MARINE STADIUM PARK SHORELINE STABILIZATION PROJECT SITE 1 &amp; 2 ( NOT FOR CONSTRUCTION )</p>	
				<p>JOB:</p>	<p>DATE: 02-11</p>
				<p>TYPICAL CROSS SECTION _ SITE 2 "A" &amp; "B"</p>	<p>BY: J.M.C. SHEET: 7 OF 8</p>

# SITE 2



## NOTES:

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FOR PERMIT ONLY	JUAN A. CURIEL State of Florida Professional Engineer License No. 63890	MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION  701 NW 1st Court, 5th Floor MIAMI, FLORIDA 33136	MIAMI MARINE STADIUM PARK SHORELINE STABILIZATION PROJECT SITE 1 & 2 (NOT FOR CONSTRUCTION)	
			JOB: TYPICAL CROSS SECTION - SITE 2 "C" & "D"	DATE: 02-11
			BY: J.M.C.	SHEET: 8 OF 8



# Florida Department of Environmental Protection

Southeast District Office  
400 N. Congress Avenue, Suite 200  
West Palm Beach, FL 33401  
561-681-6600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

MAY 20 2011

 **FILE COPY**

City of Miami  
c/o Tony Crapp Jr., City Manager  
444 S.W. 2nd Avenue, 10th Floor  
Miami, FL 33130  
via email: [tcrapp@miamigov.com](mailto:tcrapp@miamigov.com)

File No.: 13-0306269-001

Applicant: City of Miami (Marine Stadium Spoil Islands)

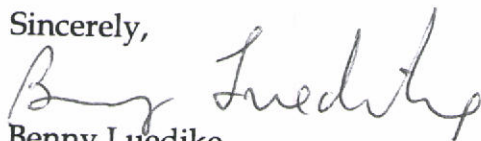
Dear Mr. Crapp:

This is to acknowledge receipt of your application on April 20, 2011, for a standard general permit, pursuant to Part IV, Chapter 373, Florida Statutes to install riprap along the shoreline of two spoil islands at four separate locations.

In order to review your application, we need the items listed in Part I of the enclosed request for additional information (RAI) by **August 18, 2011**. If necessary, you may request one extension up to 90 additional days. If neither the information nor a request for an extension is received by August 17, 2011, your application may be denied without prejudice. If you revise your project after submitting the initial joint application, please contact us as soon as possible.

We appreciate your cooperation. If you have any questions, please contact me at 561/681-6646 or by email at [Benny.Luedike@dep.state.fl.us](mailto:Benny.Luedike@dep.state.fl.us).

Sincerely,



Benny Luedike

Environmental Specialist III

Submerged Lands & Environmental Resources Program

Enclosures

cc: Kellie Youmans, FFWCC Bureau of Imperiled Species Management, [Kellie.Youmans@myfwc.com](mailto:Kellie.Youmans@myfwc.com)  
Joshua Mahoney, Authorized Agent, Miami-Dade DERM, [Mahonj@miamidade.gov](mailto:Mahonj@miamidade.gov)  
Felix Alvarez, Miami-Dade DERM, [Alvarf@miamidade.gov](mailto:Alvarf@miamidade.gov)

Applicant: City of Miami (Marine Stadium Spoil Islands)  
File No.: 13-0306269-001  
Page 1 of 3

Date Requested: MAY 20 2011

**COMPLETENESS SUMMARY/RAI**  
(Chapter 62-330 or 62-343, Florida Administrative Code)  
**Part I**

**PROCESSING FEE**

- [     ] 1. Please include a \$710.00 processing fee made payable to the Department of Environmental Protection, referencing FDEP file No. 13-0306269-001.

**PROTECTION OF WATER QUALITY & SUBMERGED RESOURCES**

- [     ] 2. Thank you for the provided staging and offloading exhibit. Please provide bathymetric data for the waters adjacent to the offloading area for each project site.
- [     ] 3. Provide details regarding the anticipated construction barge that will be transporting construction material to and from the offloading areas, including size and fully-loaded draft of the vessel(s).
- [     ] 4. Provide a typical plan view and cross-section of the storage area, showing the use of erosion control devices installed between the surface waters and the temporary staging area.

**FINAL DRAWINGS**

- [     ] 5. Prior to application completion, scaled and fully dimensioned, engineered signed and sealed drawings on 8.5 inch by 11 inch paper shall be submitted showing the following additional information:

**Plan View Drawings:**

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BUREAU OF IMPERILED SPECIES MANAGEMENT (FFWCC) REVIEW

*Your project has been sent to the Florida Fish and Wildlife Conservation Commission (FFWCC), Bureau of Protected Species Division, for evaluation of potential effects from this project on endangered or threatened species. Please note that additional questions may follow as a result of this review.*

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FOR YOUR INFORMATION

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Your project may be located within or adjacent to:

- ☐ Biscayne Bay Aquatic Preserve
- ☐ manatee habitat
- ☐ turtle habitat

and may be affected by comments from those entities having special interest in the project. Modifications to your project may be necessary upon receipt of the requested comments.

Your proposal may require a coastal construction permit from the Department's Bureau of Beaches and Coastal Systems. Please contact them at 3900 Commonwealth Boulevard, Mail Station 310, Tallahassee, Florida 32399, (phone: 904/488-3181 or 487-4475), to obtain a determination.

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1. Whether the project will adversely affect the public health, safety, or welfare or the property of others;
2. Whether the project will adversely affect the conservation of fish and wildlife, including endangered or threatened species, or their habitats;
3. Whether the project will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
4. Whether the project will adversely affect the fishing or recreational values or marine productivity in the vicinity of the project;
5. Whether the project will be of temporary or permanent nature;
6. Whether the project will adversely affect or will enhance significant historical and archeological resources under the provisions of section 267.061; and
7. The current condition and relative value of functions being performed by areas affected by the proposed activity. [See 373.414, F.S.]

The Department, in deciding to grant or deny a permit, shall consider measures proposed by or acceptable to the applicant to mitigate adverse effects which may be caused by the project. If the applicant is unable to meet water quality standards because existing ambient water quality does not meet standards, the Department shall consider mitigation measures proposed or acceptable to the applicant that cause net improvement of the water quality in the receiving body of water for those parameters which do not meet standards. Before considering mitigation, all practicable measures must first be taken to reduce the adverse effects which otherwise render the project unpermissible. [373.414(b), F.S.]



# Florida Department of Environmental Protection

Southeast District Office  
400 N. Congress Avenue, Suite 200  
West Palm Beach, FL 33401  
561-681-6600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

City of Miami  
c/o Tony Crapp Jr., City Manager  
444 S.W. 2nd Avenue, 10th Floor  
Miami, FL 33130  
Via email: [tcrapp@miamigov.com](mailto:tcrapp@miamigov.com)

 **FILE COPY**

Dear Mr. Crapp:

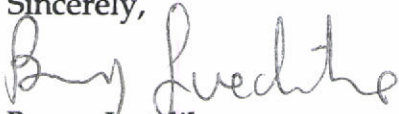
Enclosed is Environmental Resource Permit No. 13-0306269-001, issued pursuant to Part IV of Chapter 373, Florida Statutes (F.S.), and Title 62, Florida Administrative Code (F.A.C.).

Please review this document carefully to ensure compliance with both the general and specific conditions contained herein. As the permittee, you are responsible for compliance with these conditions. **Please ensure all construction personnel associated with your activity review and understand the attached drawings and conditions.** Failure to comply with this permit may result in liability for damages and restoration, and the imposition of civil penalties up to \$10,000.00 per violation per day pursuant to Sections 403.141 and 403.161, F.S.

In addition, please ensure the construction commencement notice and all other reporting conditions are forwarded to the appropriate office as indicated in the specific conditions.

If you have any questions about this document, please contact me at 561/681-6646 or by email at [Benny.Luedike@dep.state.fl.us](mailto:Benny.Luedike@dep.state.fl.us).

Sincerely,



Benny Luedike  
Environmental Specialist III  
Submerged Lands & Environmental  
Resources Program



### Permit Review Checklist

(A summary of the pre-construction, construction, post-construction, requirements and reporting activities for your project)

#### Pre-Construction Requirements

Activity	Date Due	Date Completed
<input type="checkbox"/> Contact DEP to Schedule Pre-construction Meeting	Prior to construction	_____
<input type="checkbox"/> Submit Pre-Construction Notice Form to DEP	48 Hrs. before construction	_____
<input type="checkbox"/> Temporary Erosion Control Structures in Place for Seawall Installation	Prior to construction	_____

#### Construction Requirements

Activity	Date Due	Date Completed
<input type="checkbox"/> Permit With All Attachments Kept at the Work Site	Permit shall be available on-site for DEP inspector at all times	_____
<input type="checkbox"/> Permanent Erosion Control Structures in Place	Structures should be inspected daily and maintained as needed	_____
<input type="checkbox"/> Annual Status Report Submitted (as necessary)	Each year until project completion	_____
<input type="checkbox"/> Report Changes to Permitted Drawings / Plans / Activities	Contact DEP <u>before</u> any changes	_____

#### Other / Post-Construction Requirements

Activity	Date Due	Date Completed
<input type="checkbox"/> Maintain Riprap Area free ( $\leq 5\%$ ) of Non-Native, Nuisance, and Exotic Vegetation	In perpetuity after construction	_____
<input type="checkbox"/> Permit Transfer Form Submitted to DEP (if property sold)	Within 30 Days Sale of property	_____

For the above criteria that require you to contact DEP - you should contact the Southeast District Office, Environmental Resources Permitting Section, Compliance and Enforcement, 400 North Congress Avenue, Suite 200, West Palm Beach, Florida 33401, Attention: Don Keirn, Phone: 561/681-6644, Fax: 561/681-6780.

#### PLEASE NOTE:

As the property owner/permittee, you are ultimately responsible for ensuring that the required conditions of your permit are complied with and timely reported to the Department. Please ensure that any designated contractors or agents acting on your behalf are familiar with these requirements.



# Florida Department of Environmental Protection

Southeast District Office  
400 N. Congress Avenue, Suite 200  
West Palm Beach, FL 33401  
561-681-6600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

**Permittee/Authorized Entity:**

City of Miami  
c/o Tony Crapp Jr., City Manager  
444 S.W. 2nd Avenue, 10th Floor  
Miami, FL 33130  
E-mail: [tcrapp@miamigov.com](mailto:tcrapp@miamigov.com)

**Project Name or Phase:**

City of Miami (Miami Marine Stadium Spoil Island Riprap)

**Authorized Agent:**

Miami-Dade DERM  
Restoration & Enhancement Section  
c/o Joshua Mahoney, Biologist II  
E-mail: [Mahonj@miamidade.gov](mailto:Mahonj@miamidade.gov)

**ERP Processor:**

Benny Luedike / 561-681-6646 / [Benny.Luedike@dep.state.fl.us](mailto:Benny.Luedike@dep.state.fl.us)

**Environmental Resource Permit - Granted**

**State-owned Submerged Lands Authorization - Not Applicable**

**U.S. Army Corps of Engineers Authorization - Separate Corps Authorization Required**

**Permit No.: 13-0306269-001**

**Permit Issuance Date:** Aug 29 2011

**Permit Construction Phase Expiration Date:** Aug 28 2016

## Environmental Resource Permit

**Permittee:** City of Miami

**Project Name or Phase:** City of Miami (Miami Marine Stadium Spoil Island Riprap)

### AUTHORIZATIONS

#### Project Description

The permittee is authorized to install natural limestone riprap (1' to 3' diameter) at a maximum slope of 3H:1V, in order to stabilize portions of the shorelines along two spoil islands, where the finger island (Site 1) shall consist of 1,430-linear feet of riprap, containing 2,370 yd<sup>3</sup> of riprap material within a 31,995 ft<sup>2</sup> area and where the spoil island (Site 2) shall consist of 350-linear feet of riprap, containing 490 yd<sup>3</sup> of riprap material within a 6,615 ft<sup>2</sup> area, located within the landward extent of the Biscayne Bay, in the Biscayne Bay Aquatic Preserve, Class III Waters, Outstanding Florida Waters. Authorized activities are depicted on the attached exhibits.

The project areas consist of a natural sand beach with sporadic mature mangroves. Seagrass resources are not located in the direct vicinity of the project areas, therefore impacts to seagrass resources are not authorized under this permit. In all areas of construction, the toe of the riprap shall be located a minimum of 3-feet landward of any seagrass resources and riprap shall be hand placed in areas where mangroves exist. Impacts to mangrove resources are not authorized under this permit.

The attached standard manatee conditions (version 2011) shall be adhered to during all in water work. All work shall be conducted from the uplands and all construction barges shall be used to transport construction material to and from the project site at the locations depicted in the attached permit sketches and during high tide. All watercraft associated with the construction of the permitted structures shall only operate within waters of sufficient depth (one-foot clearance from the deepest draft of the vessel to the top of submerged resources) so as to preclude bottom scouring, prop dredging, or damage to submerged resources. All waterbodies and wetlands outside the specific limits of construction and staging areas shall be protected from erosion, siltation, sedimentation, and/or scouring. Weighted turbidity curtains, extending to within one foot of the bottom, shall be utilized around the project area to ensure that any turbidity resulting from the project will be contained within the project boundaries.

The project described above may be conducted only in accordance with the terms, conditions and attachments contained in this permit. The issuance of this permit does not infer, nor guarantee, nor imply that future permits or modifications will be granted by the Department.

Permittee: City of Miami

Permit No: 13-0306269-001

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### State-owned Submerged Lands Authorization

As staff to the Board of Trustees, the Department has reviewed the activity described above and has determined the activity is located within Board of Trustees Deed No. 18030 and is not on submerged lands owned by the State of Florida. Therefore, your project is not subject to the requirements of Chapter 253, Florida Statutes.

### Federal Authorization

A copy of this permit has been sent to the U.S. Army Corps of Engineers (USACE). The USACE may require a separate permit. Failure to obtain any required federal permits prior to construction could subject you to enforcement action by that agency.

### Coastal Zone Management

This permit also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Management Act.

### Water Quality Certification

This permit constitutes certification of compliance with state water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341.

### Other Authorizations

You are advised that authorizations or permits for this project may be required by other federal, state or local entities including but not limited to local governments and homeowner's associations. This permit does not relieve you from the requirements to obtain all other required permits or authorizations.

## **PROJECT LOCATION**

The project is located in Biscayne Bay, within the Biscayne Bay Preserve, Class III Waters, Outstanding Florida Waters, along the shoreline of a finger island (25° 45' 5.04" North Latitude, 80° 10' 21.83" West Longitude) and along the shoreline of a spoil island (25° 44' 59.83" North Latitude, 80° 10' 27.33" West Longitude), Miami (Sections 17 and 18, Township 54 South, Range 42 East), in Miami-Dade County.

## **PERMIT**

The activities described herein must be conducted in accordance with:

- **The Specific Conditions**
- **The General Conditions**
- **The limits, conditions and locations of work shown in the attached drawings**
- **The term limits of this authorization**

You are advised to read and understand these conditions and drawings prior to commencing the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings. If you are utilizing a contractor, the contractor also should read and understand these conditions and drawings

Permittee: City of Miami

Permit No: 13-0306269-001

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prior to commencing the authorized activities. Failure to comply with these conditions, including any mitigation requirements, shall constitute grounds for revocation of the Permit and appropriate enforcement action by the Department.

Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and this permit/certification/authorization, as specifically described above.

#### **SPECIFIC CONDITIONS - PROJECT DRAWINGS**

(1) The attached project drawings (sheets 1 through 15); the 1-page permit checklist; the 4-page "*Florida Exotic Pest Plant Council's 2009 List of Invasive Plant Species*" (Exhibit A); the 2-page "*Standard Manatee Conditions for In-Water Work (version 2011)*" (Exhibit B); and DEP forms: 62-343.900(3), (4), (5), and (7) F.A.C., which may be downloaded at <http://www.dep.state.fl.us/water/wetlands/erp/forms.htm> are part of this permit. If the permittee does not have access to the Internet, then they or their contractor shall contact the Department at (561) 681-6646 to request the aforementioned forms and/or documents.

(2) If the attached permit drawings conflict with the specific conditions, then the specific conditions shall prevail.

#### **SPECIFIC CONDITIONS - PRIOR TO CONSTRUCTION**

(3) After selection of the contractor to perform the authorized activities and prior to the initiation of any work authorized by this permit, the permittee (or authorized agent) and the contractor shall attend a pre-construction conference with a representative of the Department. The permittee shall contact the Department in writing to schedule the conference at Department of Environmental Protection, Southeast District, Submerged Lands & Environmental Resources Program, Compliance/Enforcement Section, Attention: Don Keirn, 400 N. Congress Ave., Suite 200, West Palm Beach, Florida 33401 (phone: 561/681-6644).

(4) Prior to construction, the permittee shall be responsible for ensuring that the permit conditions are explained to all construction personnel working on the project, and for providing each contractor and subcontractor with a copy of this permit.

(5) Prior to the initiation of any work authorized by this permit, floating turbidity curtains with weighted skirts that extend to within 1-foot of the bottom shall be placed around the project site and staked erosion control devices shall be placed around the project area and staging area(s). All wetlands, surface waters, and storm drains, outside the specific limits of construction authorized by this permit shall be protected from erosion, siltation, sedimentation, and/or scouring.

#### **SPECIFIC CONDITIONS - PROJECT LIMITS**

(6) The work authorized by this permit shall not be conducted on any property, other than that owned by the permittee, without prior written approval of that property owner.

#### **SPECIFIC CONDITIONS - RESOURCE IMPACTS**

(7) Impacts to seagrasses and mangrove resources are not authorized under this permit. In all areas of construction, the toe of the riprap shall be located a minimum of 3-feet landward of any seagrass resources and riprap shall be hand placed in areas where mangroves exist.

#### **SPECIFIC CONDITIONS - CONSTRUCTION ACTIVITIES**

(8) All storage or stockpiling of construction related tools or materials shall be limited to uplands or within the impact areas authorized by this permit.

(9) All work shall be conducted from the uplands and all construction barges shall ingress and egress to and from the island at the locations depicted in the attached permit sketches and during high tide. All watercraft associated with the construction of the permitted structure shall only operate within waters of sufficient depth (one-foot clearance from the deepest draft of the vessel to the top of submerged resources) so as to preclude bottom scouring, prop dredging, or damage to submerged resources.

(10) Riprap shall consist of unconsolidated natural limestone boulders with a diameter of 1' to 3' and shall be free of sediment, debris, and toxic or otherwise deleterious substance. The slope of the riprap shall be no steeper than 3H:1V and shall be installed in accordance with the attached permit sketches.

#### **SPECIFIC CONDITIONS - PROTECTION OF WATER QUALITY**

(11) Best management practices for erosion control on the uplands shall be implemented and maintained at all times during construction to prevent siltation and turbid discharges in excess of the ambient turbidity levels surrounding the project site. Turbidity curtains and erosion control devices shall be maintained and shall remain in place for the duration of the project construction to ensure that turbidity levels outside the construction area do not degrade the ambient water quality of Outstanding Florida Waters. The permittee shall be responsible for ensuring that turbidity control devices are inspected daily and maintained in good working order so that there are no violations of state water quality standards outside of the turbidity screens.

#### **SPECIFIC CONDITIONS - POST-CONSTRUCTION MAINTENANCE**

(12) The riprap areas shall be maintained in perpetuity, free (< 5% coverage) of non-native, nuisance, and exotic vegetation, as listed on the attached 4-page FLEPPC 2009 List of Invasive Plant Species.

## **SPECIFIC CONDITIONS - PROTECTION OF MANATEES**

(13) The Standard Manatee Conditions for In-Water Work (revision 2011) shall be followed for all in-water activity.

## **GENERAL CONDITIONS**

(14) All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373, F.S.

(15) This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by the Department staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.

(16) Activities approved by this permit shall be conducted in a manner which does not cause violations of state water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of state water quality standards. Temporary erosion control shall be implemented prior to and during construction and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

(17) The permittee shall notify the Department of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the Department an **"Environmental Resource Permit Construction Commencement"** notice (Form No. 62-343.900(3), F.A.C.) indicating the actual start date and the expected completion date.

(18) When the duration of construction will exceed one year, the permittee shall submit construction status reports to the Department on an annual basis utilizing an **"Annual Status Report Form"** (Form No. 62-343.900(4), F.A.C.). Status Report Forms shall be submitted the following June of each year.

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Permit No: 13-0306269-001

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(19) Within 30 days after completion of construction of the permitted activity, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing the supplied **"Environmental Resource Permit As-Built Certification by a Registered Professional"** (Form No. 62-343.900(5), F.A.C.). The statement of completion and certification shall be based on on-site observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the Department that the system is ready for inspection. Additionally, if deviation from the attached drawings is discovered during the certification process, the certification must be accompanied by a copy of the attached permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawing. All surveyed dimensions and elevations shall be certified by a registered surveyor.

(20) The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition # 19 above, has submitted a **"Request for Transfer of Environmental Resource Permit Construction Phase to Operation Phase"** (Form No. 62-343.900(7), F.A.C.); the Department determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the Department in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications Within the South Florida Water Management District - August 1995, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the Department, the permittee shall initiate transfer of the permit to the approved responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 62-343.110(1)(d), F.A.C., the permittee shall be liable for compliance with the terms of the permit.

(21) Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.

(22) For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the Department along with any

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Permit No: 13-0306269-001

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other final operation and maintenance documents required by sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications Within the South Florida Water Management District - August 1995, prior to lot or unit sales or prior to the completion of the system, whichever occurs first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State where appropriate. For those systems which are proposed to be maintained by the county or municipal entities, final operation and maintenance documents must be received by the Department when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.

(23) Should any other regulatory agency require changes to the permitted system, the permittee shall notify the Department in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.

(24) This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C.

(25) The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

(26) The permittee is advised that the rules of the South Florida Water Management District require the permittee to obtain a water use permit from the South Florida Water Management District prior to construction dewatering, unless the work qualifies for a general permit pursuant to subsection 40E-20.302(4), F.A.C., also known as the "No Notice" rule.

(27) The permittee shall hold and save the Department harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.

(28) Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.

(29) The permittee shall notify the Department in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of section 62-343.130, F.A.C. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.

(30) Upon reasonable notice to the permittee, Department authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.

(31) If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate Department office.

(32) The permittee shall immediately notify the Department in writing of any previously submitted information that is later discovered to be inaccurate.

### **NOTICE OF RIGHTS**

This Permit is hereby final unless a sufficient petition for an administrative hearing is timely filed under Sections 120.569 and 120.57 of the Florida Statutes (F.S.) as provided below. The procedures for petitioning for a hearing are set forth below.

Mediation is not available.

A person whose substantial interests are affected by the Department's action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Because the administrative hearing process is designed to re-determine final agency action on the application, the filing of a petition for an administrative hearing may result in a modification of the permit or even a denial of the application. If a sufficient petition for an administrative hearing or request for an extension of time to file a petition is timely filed, this permit automatically becomes only proposed agency action on the application, subject

to the result of the administrative review process. Accordingly, the applicant is advised not to commence construction or other activities under this permit until the deadlines noted below for filing a petition for an administrative hearing, or request for an extension of time has expired.

Under Rule 62-110.106(4), Florida Administrative Code (F.A.C.), a person whose substantial interests are affected by the Department's action may also request an extension of time to file a petition for an administrative hearing. The Department may, for good cause shown, grant the request for an extension of time. Requests for extension of time must be filed with the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, before the applicable deadline. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon. If a request is filed late, the Department may still grant it upon a motion by the requesting party showing that the failure to file a request for an extension of time before the deadline was the result of excusable neglect.

In the event that a timely and sufficient petition for an administrative hearing is filed, other persons whose substantial interests will be affected by the outcome of the administrative process have the right to petition to intervene in the proceeding. Any intervention will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

In accordance with Rule 62-110.106(3) F.A.C., petitions for an administrative hearing by the applicant must be filed within 21 days of receipt of this written notice. Petitions filed by any persons other than the applicant, and other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within 21 days of publication of the notice or within 21 days of receipt of the written notice, whichever occurs first.

Under section 120.60(3) of the Florida Statutes, however, any person who has asked the Department for notice of agency action may file a petition within 21 days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition for an administrative hearing within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 of the Florida Statutes.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

Permittee: City of Miami

Permit No: 13-0306269-001

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(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests are or will be affected by the agency determination;

(c) A statement of when and how the petitioner received notice of the agency decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, including the specific facts that the petitioner contends warrant reversal or modification of the agency's proposed action; and

(f) A statement of the specific rules or statutes that the petitioner contends require reversal or modification of the agency's proposed action;

(g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C. Under Sections 120.569(2)(c) and (d), F.S., a petition for administrative hearing must be dismissed by the agency if the petition does not substantially comply with the above requirements or is untimely filed.

This action is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this order will not be effective until further order of the Department.

This permit constitutes an order of the Department. The applicant has the right to seek judicial review of the order under Section 120.68, F.S., by the filing of a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when the final order is filed with the Clerk of the Department. The applicant, or any party within the meaning of Section 373.114(1)(a), F.S., may also seek appellate review of this order before the Land and Water Adjudicatory Commission under Section 373.114(1), F.S. Requests for review before the Land and Water Adjudicatory Commission must be filed with the Secretary of the Commission and served on the Department within 20 days from the date when the final order is filed with the Clerk of the Department.

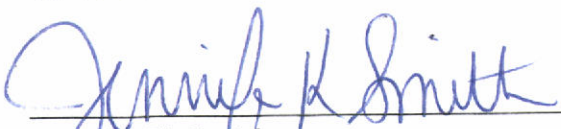
Executed in Palm Beach County, Florida.

Permittee: City of Miami

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STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Jennifer K. Smith  
Program Administrator  
Submerged Lands & Environmental  
Resource Program

**Attachments:**

Permit Checklist (1 page)  
Project Drawings and Design Specs. (15 pages)  
Exhibit A- Florida Exotic Pest Plant Council's 2009 List of Invasive Plant Species (4 pages)  
Exhibit B- 2011 Standard Manatee Conditions for In-Water Work (2 pages)  
Commencement notice /62-343.900(3)\*  
Annual status report/62-343.900(4)\*  
As-built certification/62-343.900(5)\*  
Transfer construction to operation phase/ 62-343.900(7)\*  
\*Can be downloaded at: <http://www.dep.state.fl.us/water/wetlands/erp/forms.htm>

**Copies furnished to:**


Kellie Youmans, FFWCC Bureau of Imperiled Species Management, [Kellie.Youmans@myfwc.com](mailto:Kellie.Youmans@myfwc.com)  
Rosalinda Rodriguez, USACE-Miami Office, [Rosalinda.Rodriguez@usace.army.mil](mailto:Rosalinda.Rodriguez@usace.army.mil)  
Nicole Fresard, Miami-Dade DERM, [Fresan@miamidade.gov](mailto:Fresan@miamidade.gov)  
Joshua Mahoney, Authorized Agent, [Mahonj@miamidade.gov](mailto:Mahonj@miamidade.gov)  
Ben Mostkoff, Shoreline Foundation, Inc., [bmostkoff@shorelinefoundation.com](mailto:bmostkoff@shorelinefoundation.com)  
Kevin Cote, Shoreline Foundation, Inc., [kevincote@shorelinefoundation.com](mailto:kevincote@shorelinefoundation.com)  
Sienna Bass, [siennabass@gmail.com](mailto:siennabass@gmail.com)  
File

**CERTIFICATE OF SERVICE**

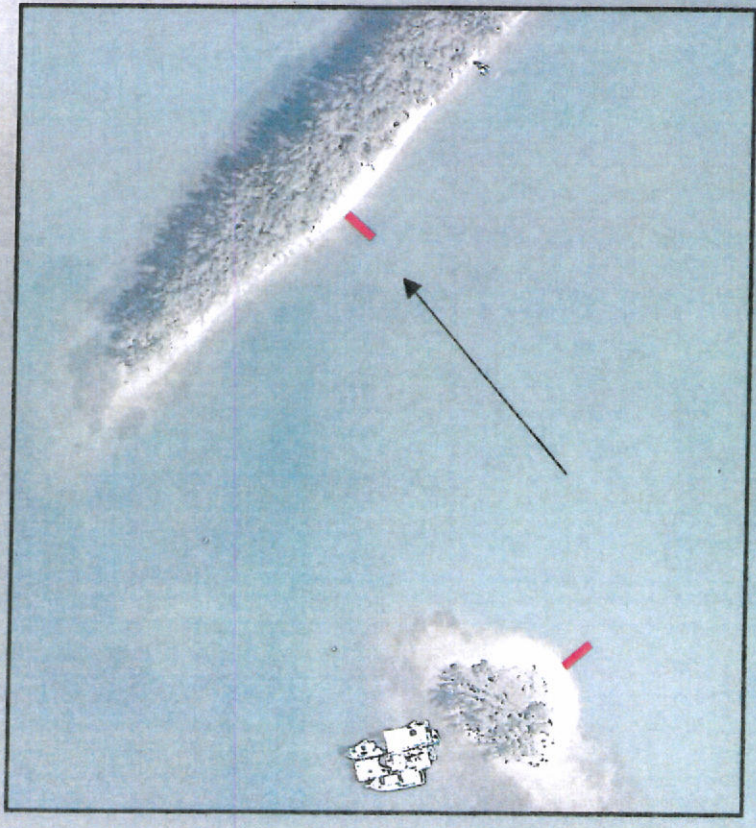
The undersigned hereby certifies that this permit including all copies, were mailed before the close of business on Aug 29, 2011, to the above listed persons.

**FILING AND ACKNOWLEDGMENT**

FILED, on this date, under 120.52(7) of the-Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

 8/29/11  
Clerk Date

# Miami Marine Stadium Park Site 1: Water Depths Adjacent to Proposed Offloading Area



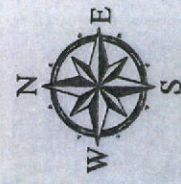
MLWL

1.6' - MLWL  
10' - MLWL  
2.5' - MLWL  
15' - MLWL  
3.9' - MLWL  
20' - MLWL

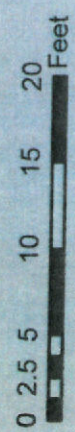
4.3' - MLWL  
30' - MLWL

6.0' - MLWL  
40' - MLWL

9.0' - MLWL  
50' - MLWL



Note: water depths were recorded at low tide on June 9, 2011 at 10:15 AM

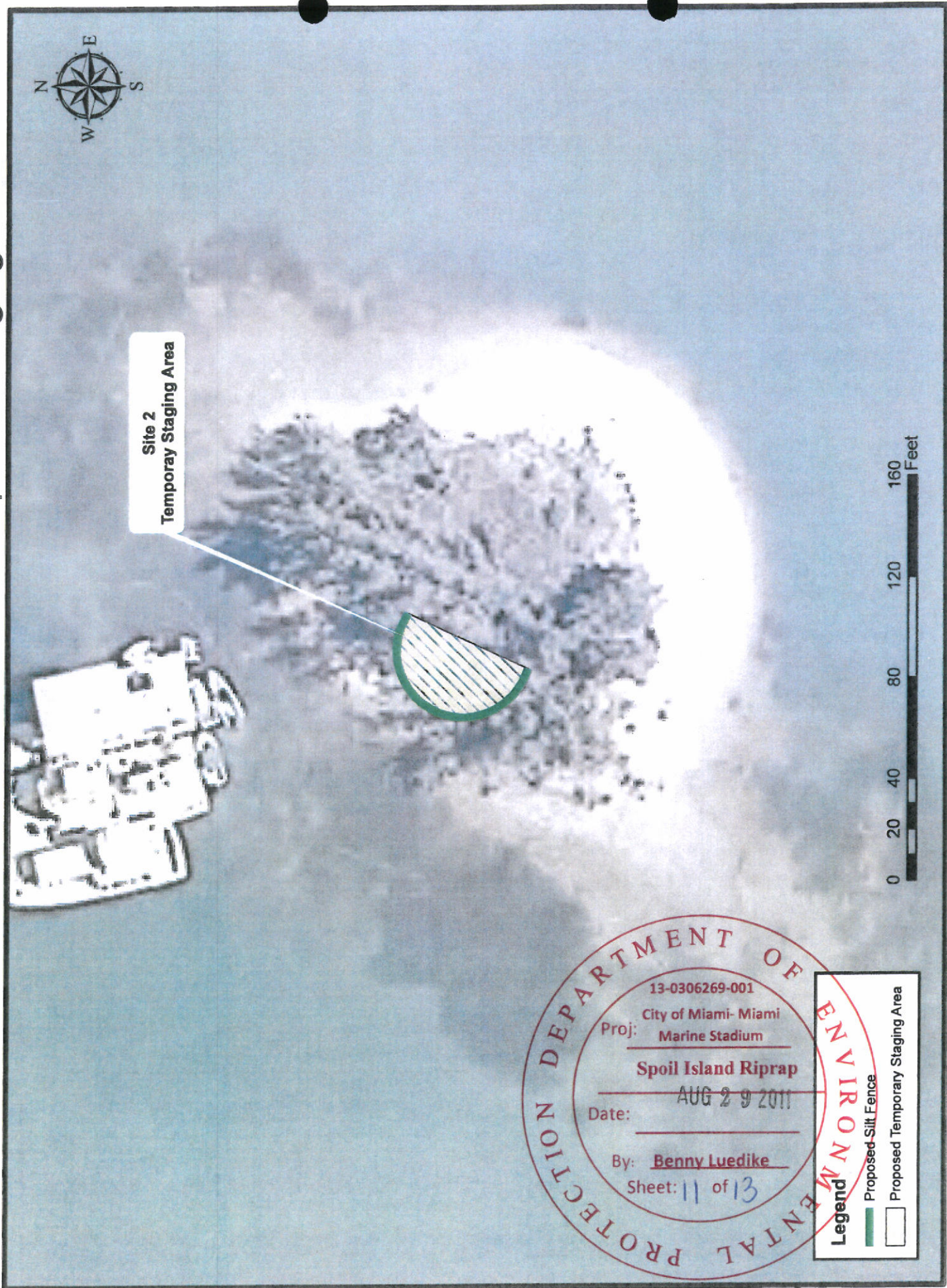


PROTECTION DEPARTMENT OF ENVIRONMENTAL

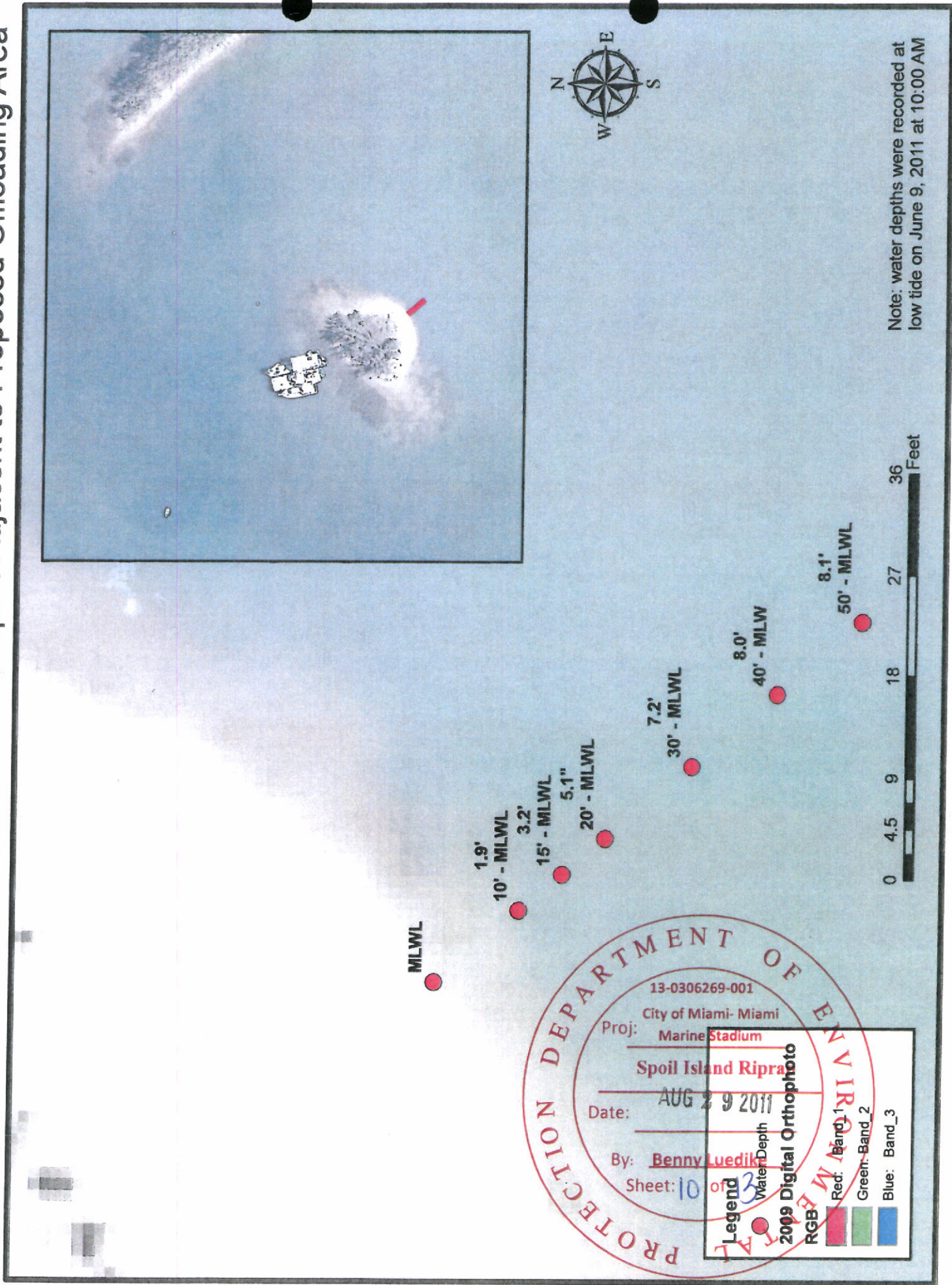
13-0306269-001  
City of Miami- Miami  
Proj: Marine Stadium  
Spoil Island Riprap  
Date: AUG 29 2011  
By: [Signature]  
Sheet: 12 of 13

Legend  
Water Depth  
2009 Digital Orthophoto  
RGB  
Red: Band\_1  
Green: Band\_2  
Blue: Band\_3

# Miami Marine Stadium Park Site 2 Proposed Staging Area

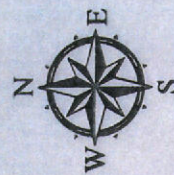
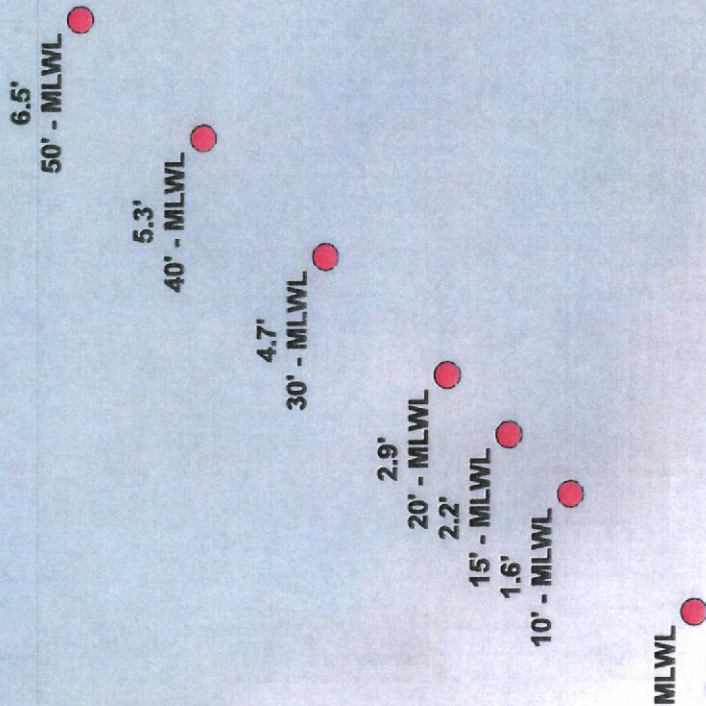


# Miami Marine Stadium Park Site 2: Water Depths Adjacent to Proposed Offloading Area

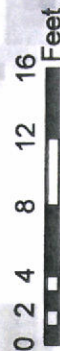


13-0306269-001  
 City of Miami- Miami  
 Proj: Marine Stadium  
 Spoil Island Riprap  
 Date: AUG 29 2011  
 By: Benny Luedik  
 Sheet: 10 of 30

# Miami Marine Stadium Park: Water Depths Adjacent to Proposed Loading Area



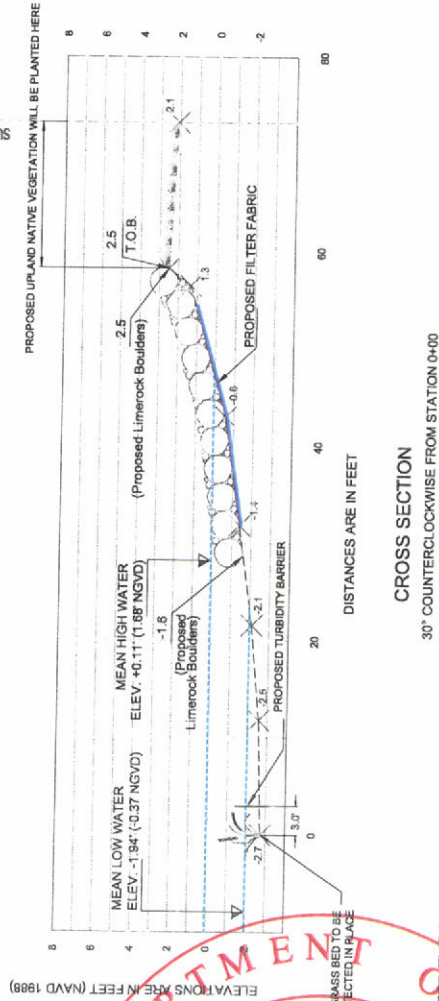
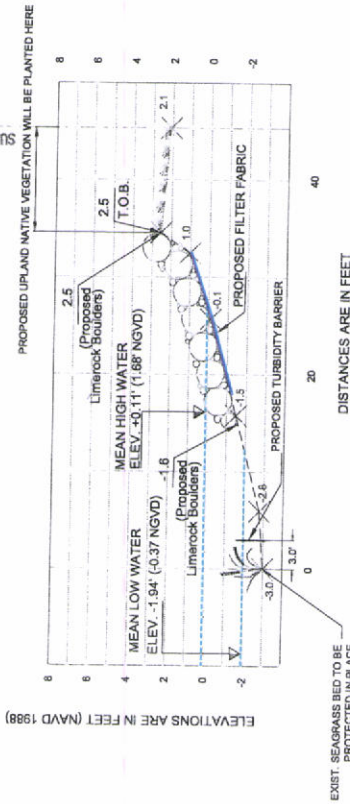
Note: water depths were recorded at low tide on June 9, 2011 at 10:30 AM



13-0306269-001  
City of Miami- Miami  
Proj: Marine Stadium  
Spoil Island Riprap  
Date: AUG 29 2011  
By: Benny Luedtke  
Sheet: 9 of 13

Legend  
Water Depth  
2009 Digital Orthophoto  
RGB  
Red: Band 1  
Green: Band 2  
Blue: Band 3

# SITE 2



SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

JOB:  
TYPICAL CROSS SECTION \_SITE 2 "C" & "D"  
DATE: 02-11  
BY: J.M.C.  
SHEET: 8 OF 8

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

JUAN A. CUREL  
State of Florida Professional Engineer  
License No. 63890

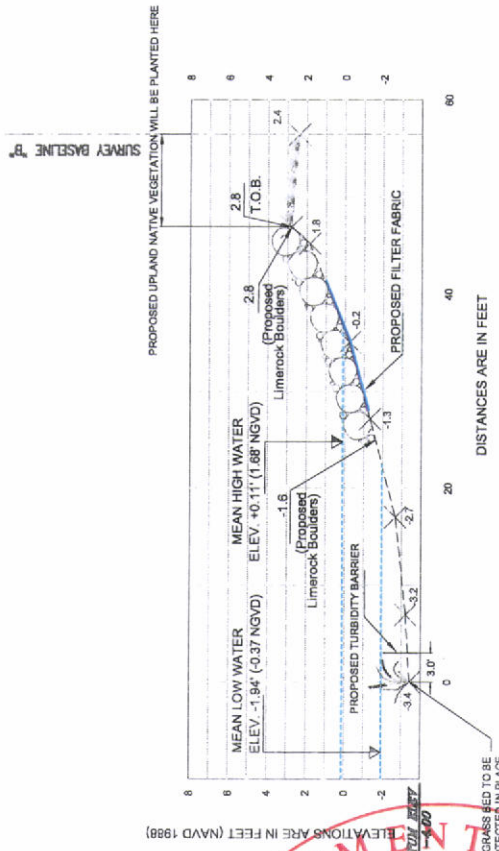
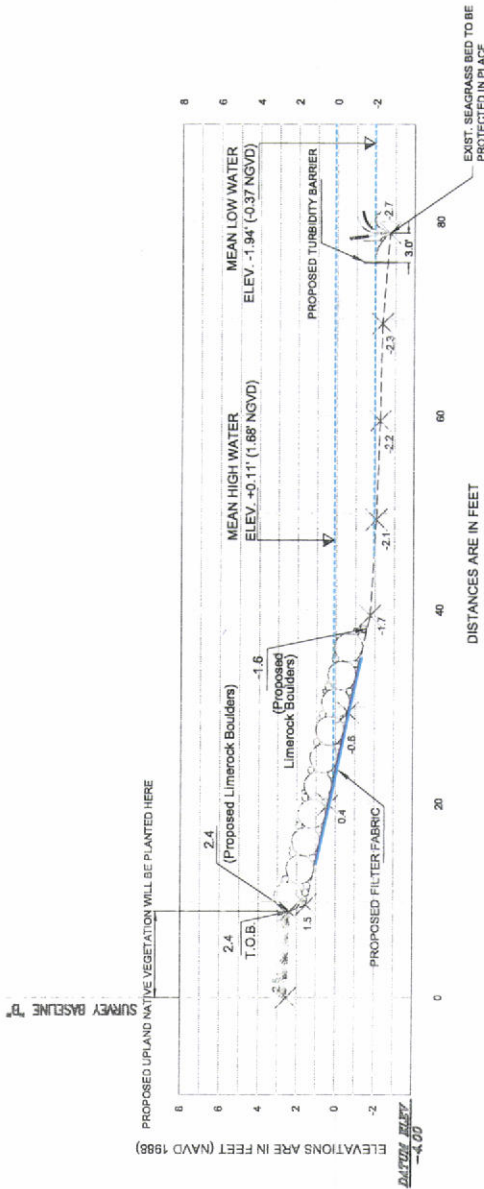
FOR PERMIT ONLY

13-030619-001  
City of Miami- Miami  
Proj: Marine Stadium  
Spoil Island Riprap  
Date: AUG 29 2011  
By: Benny Luedike  
Sheet: 8 of 13

NOTES:

1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
2. 1'-3" FOOT DIAMETER LIMESTONE Boulders
3. NGVD 28 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

# SITE 2



SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

13-0306269-001

City of Miami- Miami

Proj: Marine Stadium

Spoil Island Riprap

Date: AUG 29 2011

By: Benny Luedike

Sheet: 7 of 13

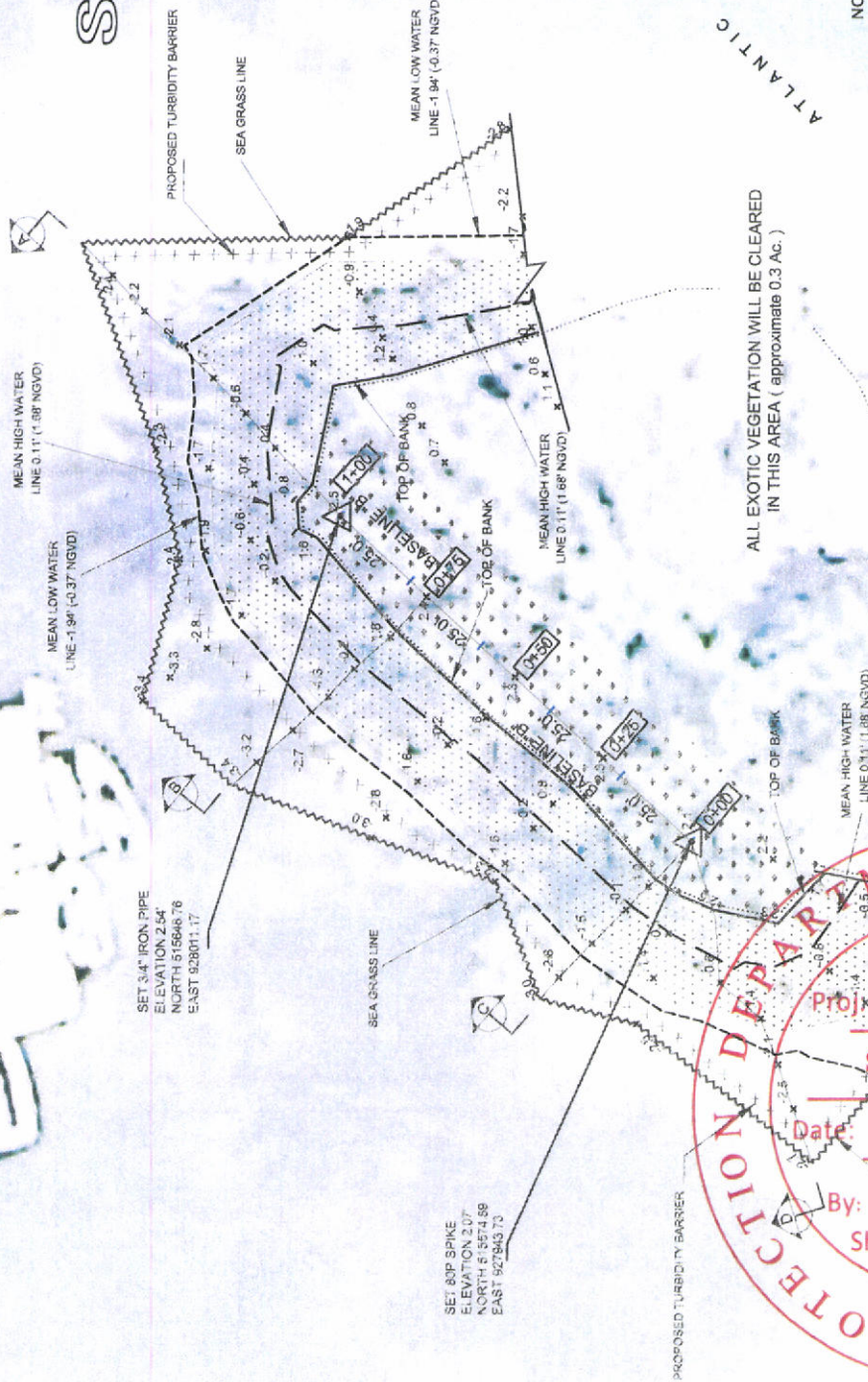
NOTES:

1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
2. 1'-3' FOOT DIAMETER LIMEROCK BOULDERS.
3. NGVD 28 ELEVATIONS SHOWN IN PARENTHESES ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

<p>MIAMI MARINE STADIUM PARK SHORELINE STABILIZATION PROJECT SITE 1 &amp; 2 (NOT FOR CONSTRUCTION)</p>	<p>MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION</p>	<p>JUAN A. GURIEL State of Florida Professional Engineer License No. 63890</p>
<p>JOB: TYPICAL CROSS SECTION _ SITE 2 "A" &amp; "B" BY: J.M.C.</p>	<p>701 NW 1st Court, 5th Floor MIAMI, FLORIDA 33136</p>	<p>DATE: 02-11 SHIFT: 7 OF 8</p>

FOR PERMIT ONLY

# SITE 2



## LEGEND:

- EXISTING SEA GRASS LINE
- MEAN HIGH WATER LINE 0.11 (1.88' NGVD)
- MEAN LOW WATER LINE -1.94 (-0.37' NGVD)
- TOP OF BANK
- PROPOSED TURBIDITY BARRIER
- POINTS ELEV. (NAVD)
- PROPOSED UPLAND NATIVE VEGETATION
- PROPOSED LIMESTONE BOULDERS ABOVE A GEOTEXTILE FABRIC LAYER

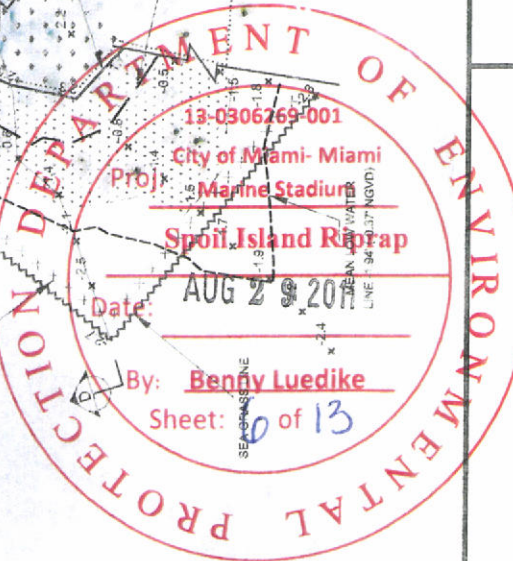
ATLANTIC OCEAN

## NOTES:

1. ANY STABILIZATION IN THE AREA OF EXISTING BUTTONWOODS AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
2. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
3. NGVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.
4. FOR INFORMATION REGARDING LIMITS OF EXISTING SUBMERGED RESOURCES AND LOCATIONS OF PROPOSED TURBIDITY CURTAINS, SEE CROSS SECTIONS ON SHEETS 7 AND 8.

ALL EXOTIC VEGETATION WILL BE CLEARED IN THIS AREA (approximate 0.3 Ac.)

PROPOSED TURBIDITY BARRIER



JUAN A. CUBEL  
State of Florida Professional Engineer  
License No. 63890

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MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

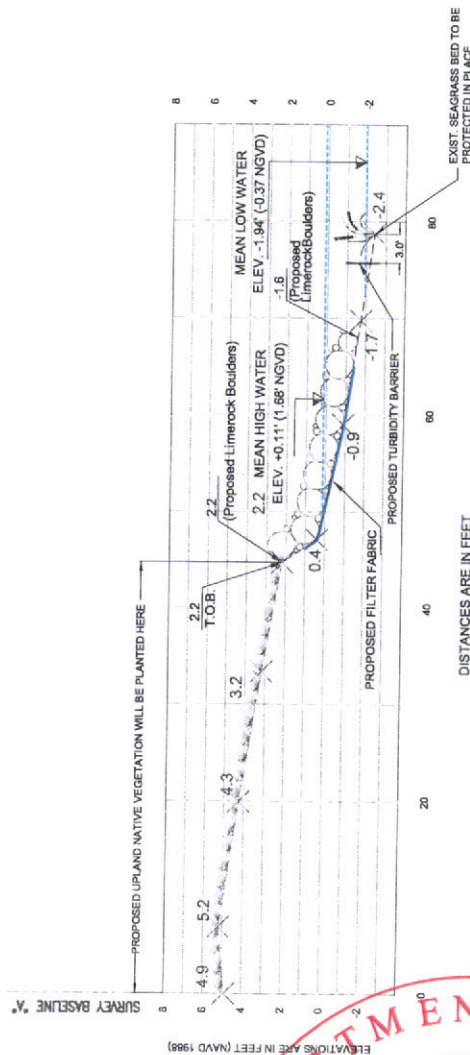
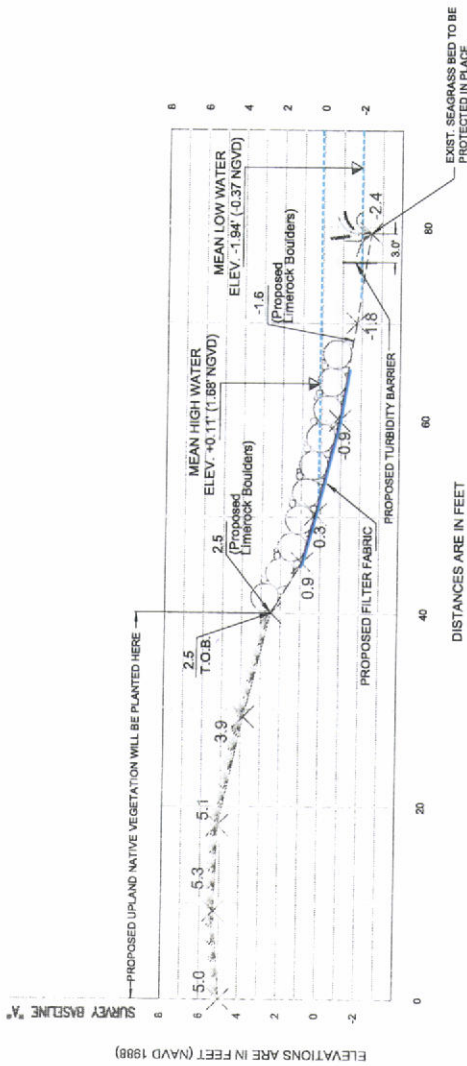
JOB: MARINE STADIUM FINGER ISLAND  
SITE PLAN (SITE 2)

J.M.C.

DATE: 02-11

SHEET: 4 OF 8

# SITE 1



SCALE HOR 1"= 20'  
SCALE VERT 1"= 10'

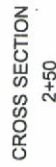
NOTES:

1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
2. 1-3' FOOT DIAMETER LIMESTONE BOULDERS.
3. ANY STABILIZATION IN THE AREA OF EXISTING BOTTOMWOODS AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
4. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
5. NGVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

13-0306265-000  
City of Miami  
Marine Station  
Spoil Island  
Date: AUG 2 2011  
By: Benny L. ...  
Sheet: 5 of 5

<p>MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION</p> <p>701 NW 1st Court, 5th Floor MIAMI, FLORIDA 33136</p>	<p>MIAMI MARINE STADIUM PARK SHORELINE STABILIZATION PROJECT SITE 1 &amp; 2 (NOT FOR CONSTRUCTION)</p>	<p>JUANIA GUREL State of Florida Professional Engineer License No. 63890</p> <p>FOR PERMIT ONLY</p>
<p>JOB: TYPICAL CROSS SECTION - SITE 1 "C" &amp; "D"</p>	<p>DATE: 02-11</p>	<p>BY: J.M.C. SHEET: 6 OF 8</p>

## SURVEY BASELINE "A"



1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
2. 1'-3" FOOT DIAMETER IMPECK BOLLARDS.
3. ANY STABILIZATION IN THE AREA OF EXISTING BUTTONGROVES AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
4. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
5. NGVD 29 ELEVATIONS SHOWN IN PARENTHESES ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

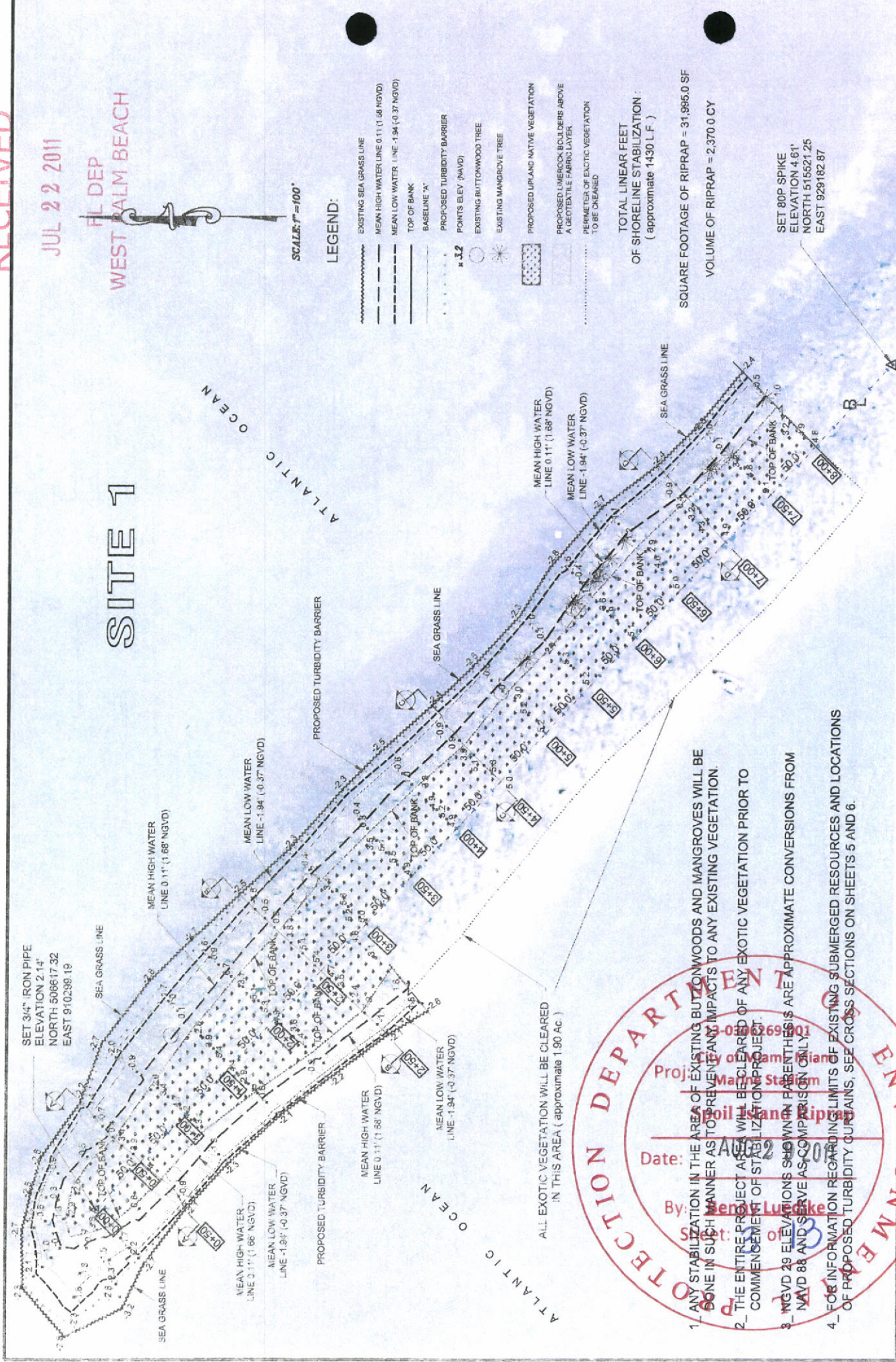
**JULIAN A. CURIER**  
State of Florida Professional Engineer  
License No. 63890

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

JOB:	02-11
TYPICAL CROSS SECTION _ SITE 1 "A" & "B"	DATE:
BY:	SHIFT:
J.M.C.	5 OF 8

FL DEP  
WEST PALM BEACH

# THIS



1. ANY STABILIZATION IN THE AREA OF EXISTING BUTZONWILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO THE ENTIRE PROJECT AREA. WILL BE CLEARED OF ANY E

2. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY E COMMENCEMENT OF STABILIZATION PROJECT.

3. NGVD 29 ELEVATIONS SHOWN IN PARENT THIS IS ARE AP NAVD 88 AND SERVE AS COMPARISON ONLY.

4. FOR INFORMATION REGARDING LIMITS OF EXISTING SUB OF PROPOSED TURBIDITY CURTAINS, SEE CROSS SECTION

1. ANY STABILIZATION IN THE AREA OF EXISTING BUTTONWOODS AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
2. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
3. NGVD 29 ELEVATIONS SHOWN IN PARENTHESES ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.
4. FOR INFORMATION REGARDING LIMITS OF EXISTING SUBMERGED RESOURCES AND LOCATIONS OF PROPOSED TURBIDITY CURTAINS, SEE CROSS SECTIONS ON SHEETS 5 AND 6.

FOR PERMIT ONLY

**JUAN A. GURIEL**  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DERMA  
WATER MANAGEMENT  
DIVISION

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
( NOT FOR CONSTRUCTION )

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

JOB: MARINE STADIUM FINGER ISLAND SITE PLAN ( SITE 1 )	DATE: 02-11
BY: J.M.C.	SHEET: 3 OF 8

# MARINE STADIUM FINGER ISLANDS

## Survey Notes:

1. All survey information used to prepare these drawings is based on a topographic survey ( "Topographic Survey, Marine Stadium Finger Island" ) supervised, signed and sealed by Mr. Michael J. Whitting, P.S.M., Florida Licence Number 4688, Miami-Dade County Public Works Department, 140 West Flagler Street, Suite #805, Miami, Florida 33130.
2. All measurements were made in US Survey Feet.
3. Elevations are referred to the North American Vertical Datum of 1988 (NAVD). Elevations are based on Miami-Dade County Benchmark, KB-3-R; Said Benchmark being a PK Nail and Brass Washer in concrete curb at the east end of the median at the north Rickenbacker Causeway and Miami Marine Stadium.
4. The horizontal coordinates shown on the survey that were used to prepare these drawings were based on the North American Datum of 1983 ( 1990 Adjusted ).
5. The surveyor stated that no attempt was made to locate underground utilities, footings, buildings, walkway, roads, docks, walls or fences, except if shown hereon.

## Drawing Notes:

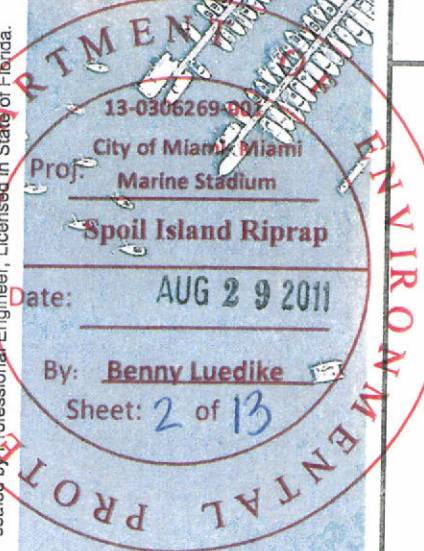
1. This set of drawings titles, ( "Miami Marine Stadium Shoreline Stabilization Projects", Site 1 and 2 ) were prepared solely for the intent of obtaining all environmental permits necessary to complete this project.
2. These drawings shall not be used for construction.
3. Any deviations in scope from what is presented within these permit drawings shall not be approved unless included in revised set of drawings signed and sealed by Professional Engineer, Licensed in State of Florida.

**PROJECT AREA  
SITE 1**

**PROJECT AREA  
SITE 2**

SCALE 1"=500'

ATLANTIC OCEAN



FOR PERMIT ONLY

*Benny Luedike*  
JUANITA OUREA  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION  
701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
( NOT FOR CONSTRUCTION )

JOB:	AERIAL PICTURES OF AREA AND NOTES	DATE:	02-11
BY:	J.M.C.	SHEET:	2 OF 8

RECEIVED

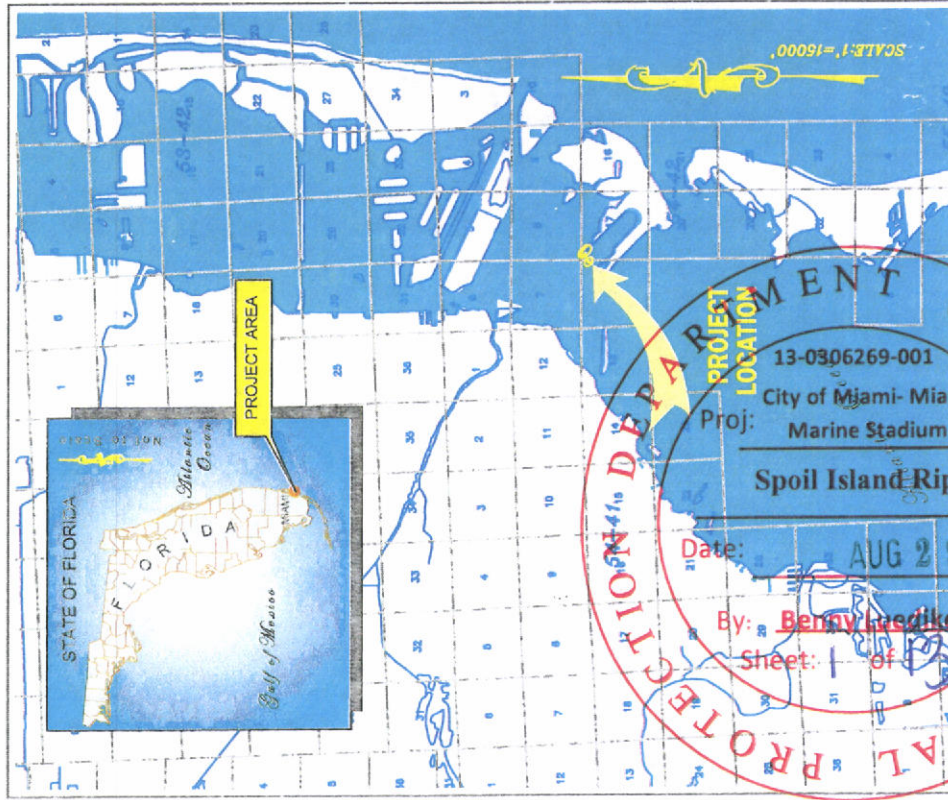
JUL 22 2011

FL DEP

WEST PALM BEACH

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
(Site 1 & 2)

MIAMI DADE COUNTY  
DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT (DERM)  
NOT FOR CONSTRUCTION; FOR PERMIT ONLY



VICINITY MAP

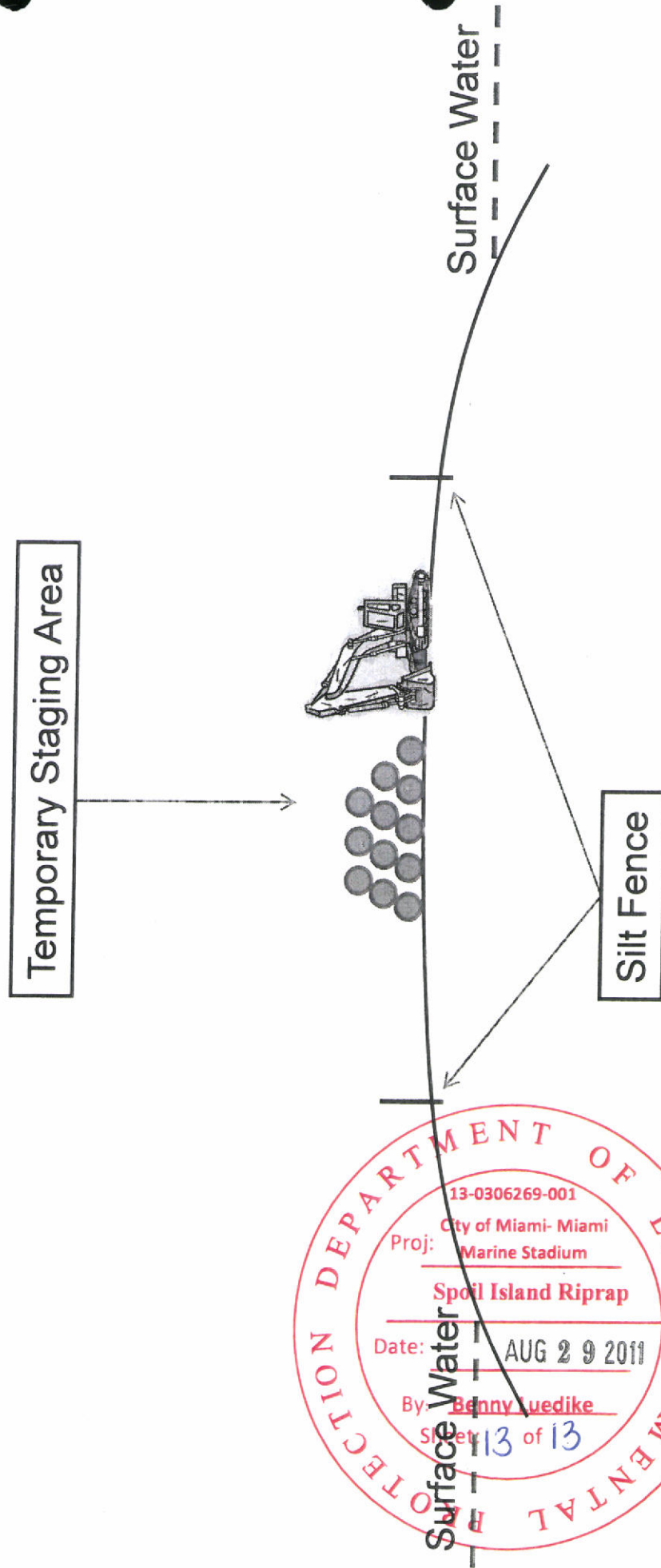
FOR PERMIT ONLY

MIAMI MARINE STADIUM PARK SHORELINE STABILIZATION PROJECT SITE 1 & 2 (NOT FOR CONSTRUCTION)		MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION		701 NW 1st Court, 5th Floor MIAMI, FLORIDA 33136	
JOB:	VICINITY MAP & INDEX OF DRAWINGS	DATE:		02-11	
BY:	J.M.C.	SHEET:		1 OF 8	

- INDEX OF SHEETS
- 1\_ VICINITY MAP & INDEX OF DRAWINGS
  - 2\_ AERIAL PICTURES OF AREA AND NOTES
  - 3\_ MARINE STADIUM FINGER ISLAND, SITE PLAN (SITE 1)
  - 4\_ MARINE STADIUM FINGER ISLAND, SITE PLAN (SITE 2)
  - 5\_ TYPICAL CROSS SECTION, SITE 1 "A" & "B"
  - 6\_ TYPICAL CROSS SECTION, SITE 1 "C" & "D"
  - 7\_ TYPICAL CROSS SECTION, SITE 2 "A" & "B"
  - 8\_ TYPICAL CROSS SECTION, SITE 2 "C" & "D"

JUAN A. GURIEL  
State of Florida Professional Engineer  
License No. 63890

# Temporary Staging Area: Typical Cross-Section



## 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 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 Florida Fish and Wildlife Conservation Commission (FWC) must be used (see [MyFWC.com/manatee](http://MyFWC.com/manatee)). One sign which reads *Caution: Boaters* must be posted. A second sign measuring at least 8 1/2" 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. 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 Exotic Pest Plant Council's 2009 List of Invasive Plant Species

**Purpose of the List:** To focus attention on —

- ▶ the adverse effects exotic pest plants have on Florida's biodiversity and plant communities,
- ▶ the habitat losses from exotic pest plant infestations,
- ▶ the impacts on endangered species via habitat loss and alteration,
- ▶ the need to prevent habitat losses through pest-plant management,
- ▶ the socio-economic impacts of these plants (e.g., increased wildfires in certain areas),
- ▶ changes in the seriousness of different pest plants over time,
- ▶ the need to provide information that helps managers set priorities for control programs.

## CATEGORY I

Invasive exotics that are altering native plant communities by displacing native species, changing community structures or ecological functions, or hybridizing with natives. This definition does not rely on the economic severity or geographic range of the problem, but on the documented ecological damage caused.

Scientific Name	Common Name	FLEPPC Cat.	Gov. List	Reg. Dist.
<i>Abrus precatorius</i>	rosary pea	1	N	C, S
<i>Acacia auriculiformis</i>	earleaf acacia	1		C, S
<i>Albizia julibrissin</i>	mimosa, silk tree	1		N, C
<i>Albizia lebbek</i>	woman's tongue	1		C, S
<i>Ardisia crenata</i> (A. crenulata misapplied)	coral ardisia	1		N, C, S
<i>Ardisia elliptica</i> (A. humilis misapplied)	shoebutton ardisia	1	N	C, S
<i>Asparagus aethiopicus</i> (A. sprengeri, A. densiflorus misapplied)	asparagus-fern	1		N, C, S
<i>Bauhinia variegata</i>	orchid tree	1		C, S
<i>Bischofia javanica</i>	bishopwood	1		C, S
<i>Calophyllum antillanum</i> (C. calaba and C. inophyllum misapplied)	santa maria (names "mast wood," "Alexandrian laurel" used in cultivation)	1		S
<i>Casuarina equisetifolia</i>	Australian-pine, beach sheoak	1	P, N	N, C, S
<i>Casuarina glauca</i>	suckering Australian-pine, gray sheoak	1	P, N	C, S
<i>Cinnamomum camphora</i>	camphor tree	1		N, C, S
<i>Colocasia esculenta</i>	wild taro	1		N, C, S
<i>Colubrina asiatica</i>	lather leaf	1	N	S
<i>Cupaniopsis anacardioides</i>	carrotwood	1	N	C, S
<i>Dioscorea alata</i>	winged yam	1	N	N, C, S
<i>Dioscorea bulbifera</i>	air-potato	1	N	N, C, S
<i>Eichhornia crassipes</i>	water-hyacinth	1	P	N, C, S
<i>Eugenia uniflora</i>	Surinam cherry	1		C, S
<i>Ficus microcarpa</i> (F. nitida and F. retusa var. nitida misapplied) <sup>1</sup>	laurel fig	1		C, S
<i>Hydrilla verticillata</i>	hydrilla	1	P, U	N, C, S
<i>Hygrophila polysperma</i>	green hygro	1	P, U	N, C, S
<i>Hymenachne amplexicaulis</i>	West Indian marsh grass	1		C, S
<i>Imperata cylindrica</i> (I. brasiliensis misapplied)	cogon grass	1	N, U	N, C, S
<i>Ipomoea aquatica</i>	water-spinach	1	P, U	C
<i>Jasminum dichotomum</i>	Gold Coast jasmine	1		C, S
<i>Jasminum fluminense</i>	Brazilian jasmine	1		C, S
<i>Lantana camara</i> (= L. strigocamara)	lantana, shrub verbena	1		N, C, S
<i>Ligustrum lucidum</i>	glossy privet	1		N, C
<i>Ligustrum sinense</i>	Chinese privet, hedge privet	1		N, C, S
<i>Lonicera japonica</i>	Japanese honeysuckle	1		N, C, S
<i>Ludwigia peruviana</i>	Peruvian primrosewillow	1		N, C, S
<i>Luziola subintegra</i>	Tropical American water grass	1		S
<i>Lygodium japonicum</i>	Japanese climbing fern	1	N	N, C, S
<i>Lygodium microphyllum</i>	Old World climbing fern	1	N	C, S

<sup>1</sup>Does not include *Ficus microcarpa* subsp. *fuyensis*, which is sold as "Green Island Ficus"

## FLEPPC List Definitions:

**Exotic** – a species introduced to Florida, purposefully or accidentally, from a natural range outside of Florida.

**Native** – a species whose natural range includes Florida.

**Naturalized exotic** – an exotic that sustains itself outside cultivation (it is still exotic; it has not "become" native).

**Invasive exotic** – an exotic that not only has naturalized, but is expanding on its own in Florida native plant communities.

## Abbreviations:

**Government List (Gov. List):**

P = Prohibited aquatic plant by the Florida Department of Agriculture and Consumer Services;

N = Noxious weed listed by Florida Department of Agriculture & Consumer Services;

U = Noxious weed listed by U.S. Department of Agriculture.

**Regional Distribution (Reg. Dist.):**

N = north, C = central, S = south, referring to each species' current distribution in general regions of Florida (not its potential range in the state).

Please refer to the map below.



## Changes to the 2009 List:

***Luziola subintegra***, added to list as Category I

*Luziola subintegra* (rice grass) was first discovered in Lake Okeechobee by Mike Bodle in 2007. This aquatic grass is spreading in the lake. It grows in water 2-3 m deep, spreads vegetatively and by seed, and aggressively outcompetes other native and exotic species. To date, 2,000 acres have been treated.

***Nymphoides cristata***, moved from Category II to Category I

Snowflake (*Nymphoides cristata*) is an Asian aquatic that became problematic in southwest Florida in the 1990s. It is now an abundant weed in canals and ponds in southwest Florida, and has spread throughout the peninsula where it has been documented in seven counties, from Collier to St. Johns. It has colonized the Big Cypress National Preserve where it is invading several strand swamps along Tamiami Trail, presumably introduced by fisherman using cast nets infested from waters outside of the preserve.

***Salvinia minima***, added to list as Category I

Water spangles (*Salvinia minima*), first found in Florida in 1928, remained a cryptic species during a period when opinions differed on its status as native or introduced in Florida. In 2001, a study of early herbarium voucher data revealed the introduction points and systematic spread of this free-floating fern into and throughout Florida. *S. minima* outcompetes more nutritive native duckweeds by overtopping their thinner fronds, which float flat upon the water surface.

***Scleria lacustris***, moved from Category II to Category I

Wright's nutrush (*Scleria lacustris*) is an annual tropical sedge that was first collected in Florida in 1988. In Florida, its distribution extends to more than 20 distinct natural areas in eight counties within four major drainage regions of the central and southern peninsula. Its unique growth habit obscures open water and drastically alters the naturally sparse and upright structure of preexisting native vegetation. Such domination may even displace native prey for the endangered Florida snail kite, a sight feeder inhabiting many locations where invasive colonization occurs.

Scientific Name	Common Name	FLEPPC Cat.	Gov. List	Reg. Dist.
<i>Macfadyena unguis-cati</i>	cat's claw vine	I		N, C, S
<i>Manilkara zapota</i>	sapodilla	I		S
<i>Melaleuca quinquenervia</i>	melaleuca, paper bark	I	P, N, U	C, S
<i>Melinis repens</i> (= <i>Rhynchelytrum repens</i> )	Natal grass	I		N, C, S
<i>Mimosa pigra</i>	catclaw mimosa	I	P, N, U	C, S
<i>Nandina domestica</i>	nandina, heavenly bamboo	I		N, C
<i>Nephrrolepis cordifolia</i>	sword fern	I		N, C, S
<i>Nephrrolepis brownii</i> (= <i>N. multiflora</i> )	Asian sword fern	I		C, S
<i>Neyraudia reynaudiana</i>	Burma reed, cane grass	I	N	S
<i>Nymphoides cristata</i>	snowflake	I		C, S
<i>Paederia cruddasiana</i>	sewer vine, onion vine	I	N	S
<i>Paederia foetida</i>	skunk vine	I	N	N, C, S
<i>Panicum repens</i>	torpedo grass	I		N, C, S
<i>Pennisetum purpureum</i>	Napier grass	I		N, C, S
<i>Pistia stratiotes</i>	water-lettuce	I	P	N, C, S
<i>Psidium cattleianum</i> (= <i>P. littorale</i> )	strawberry guava	I		C, S
<i>Psidium guajava</i>	guava	I		C, S
<i>Pueraria montana</i> var. <i>lobata</i> (= <i>P. lobata</i> )	kudzu	I	N	N, C, S
<i>Rhodomyrtus tomentosa</i>	downy rose-myrtle	I	N	C, S
<i>Rhynchelytrum repens</i> (See <i>Melinis repens</i> )				
<i>Ruellia brittoniana</i> <sup>2</sup> ( <i>R. tweediana</i> misapplied)	Mexican petunia	I		N, C, S
<i>Salvinia minima</i>	water spangles	I		N, C, S
<i>Sapium sebiferum</i> (= <i>Triadica sebifera</i> )	popcorn tree, Chinese tallow tree	I	N	N, C, S
<i>Scaevola taccada</i> (= <i>Scaevola sericea</i> , <i>S. frutescens</i> )	scaevola, half-flower, beach naupaka	I	N	C, S
<i>Schefflera actinophylla</i> (= <i>Brassaia actinophylla</i> )	schefflera, Queensland umbrella tree	I		C, S
<i>Schinus terebinthifolius</i>	Brazilian pepper	I	P, N	N, C, S
<i>Scleria lacustris</i>	Wright's nutrush	I		C, S
<i>Senna pendula</i> var. <i>glabrata</i> (= <i>Cassia coluteoides</i> )	climbing cassia, Christmas cassia, Christmas senna	I		C, S
<i>Solanum tampicense</i> (= <i>S. houstonii</i> )	wetland nightshade, aquatic soda apple	I	N, U	C, S
<i>Solanum viarum</i>	tropical soda apple	I	N, U	N, C, S
<i>Syngonium podophyllum</i>	arrowhead vine	I		N, C, S
<i>Syzygium cumini</i>	jambolan plum, Java plum	I		C, S
<i>Tectaria incisa</i>	incised halberd fern	I		S
<i>Thespesia populnea</i>	seaside mahoe	I		C, S
<i>Tradescantia fluminensis</i>	small-leaf spiderwort	I		N, C
<i>Urochloa mutica</i> (= <i>Brachiaria mutica</i> )	Para grass	I		C, S

## CATEGORY II

Invasive exotics that have increased in abundance or frequency but have not yet altered Florida plant communities to the extent shown by Category I species. These species may become ranked Category I, if ecological damage is demonstrated.

Scientific Name	Common Name	FLEPPC Cat.	Gov. List	Reg. Dist.
<i>Adenanthura pavonina</i>	red sandalwood	II		S
<i>Agave sisalana</i>	sisal hemp	II		C, S
<i>Aleurites fordii</i> (= <i>Vernicia fordii</i> )	rung oil tree	II		N, C
<i>Alstonia macrophylla</i>	devil tree	II		S
<i>Alternanthera philoxeroides</i>	alligator weed	II	P	N, C, S
<i>Antigonon leptopus</i>	coral vine	II		N, C, S
<i>Aristolochia littoralis</i>	calico flower	II		N, C, S
<i>Asystasia gangetica</i>	Ganges primrose	II		C, S

<sup>2</sup>The Plant List Committee is uncertain as to the correct name for this species. Plants cultivated in Florida, all representing the same invasive species, have in the past been referred to as *Ruellia brittoniana*, *R. tweediana*, *R. caerulea*, and *R. simplex*.

Scientific Name	Common Name	FLEPPC Cat.	Gov. List	Reg. Dist.
<i>Begonia cucullata</i>	wax begonia	II		N, C, S
<i>Blechnum pyramdatum</i>	green shrimp plant, Browne's blechnum	II		N, C, S
<i>Broussonetia papyrifera</i>	paper mulberry	II		N, C, S
<i>Callisia fragrans</i>	inch plant, spironema	II		C, S
<i>Callistemon viminalis</i>	bottlebrush, weeping bottlebrush	II		S
<i>Casuarina cunninghamiana</i>	river sheoak, Australian-pine	II	P	C, S
<i>Cecropia palmata</i>	trumpet tree	II		S
<i>Cestrum diurnum</i>	day jessamine	II		C, S
<i>Chamaedorea seifrizii</i>	bamboo palm	II		S
<i>Clematis terniflora</i>	Japanese clematis	II		N, C
<i>Cryptostegia madagascariensis</i>	rubber vine	II		C, S
<i>Cyperus involucratus</i> ( <i>C. alternifolius</i> misapplied)	umbrella plant	II		C, S
<i>Cyperus prolifer</i>	dwarf papyrus	II		C, S
<i>Dactyloctenium aegyptium</i>	Durban crowfootgrass	II		N, C, S
<i>Dalbergia sissoo</i>	Indian rosewood, sissoo	II		C, S
<i>Elaeagnus umbellata</i>	silverberry, autumn olive	II		N
<i>Elaeagnus pungens</i>	silverthorn, thorny olive	II		N, C
<i>Epipremnum pinnatum</i> cv. Aureum	pothos	II		C, S
<i>Ficus altissima</i>	false banyan, council tree	II		S
<i>Flacourtia indica</i>	governor's plum	II		S
<i>Hemarthria altissima</i>	limpo grass	II		C, S
<i>Hibiscus tiliaceus</i> (See <i>Talipariti tiliaceum</i> )				
<i>Hyparrhenia rufa</i>	jaragua	II		N, C, S
<i>Ipomoea carnea</i> ssp. <i>fistulosa</i> (= <i>I. fistulosa</i> )	shrub morning-glory	II	P	C, S
<i>Jasminum sambac</i>	Arabian jasmine	II		S
<i>Kalanchoe pinnata</i>	life plant	II		C, S
<i>Koeleruteria elegans</i> ssp. <i>formosana</i> (= <i>K. formosana</i> ; <i>K. paniculata</i> misapplied)	flamegold tree	II		C, S
<i>Leucaena leucocephala</i>	lead tree	II	N	N, C, S
<i>Landoltia punctata</i> (= <i>Spirodela punctata</i> )	Spotted duckweed	II		N, C, S
<i>Limnophila sessiliflora</i>	Asian marshweed	II	P, U	N, C, S
<i>Livistona chinensis</i>	Chinese fan palm	II		C, S
<i>Melia azedarach</i>	Chinaberry	II		N, C, S
<i>Melinis minutiflora</i>	Molassesgrass	II		C, S
<i>Merremia tuberosa</i>	wood-rose	II		S
<i>Murraya paniculata</i>	orange-jessamine	II		S
<i>Myriophyllum spicatum</i>	Eurasian water-milfoil	II	P	N, C, S
<i>Panicum maximum</i> (= <i>Urochloa maxima</i> , <i>Megathyrsus maximus</i> )	Guinea grass	II		N, C, S
<i>Passiflora biflora</i>	two-flowered passion vine	II		S
<i>Pennisetum setaceum</i>	green fountain grass	II		S
<i>Phoenix reclinata</i>	Senegal date palm	II		C, S
<i>Phyllostachys aurea</i>	golden bamboo	II		N, C
<i>Pittosporum pentandrum</i>	Philippine pittosporum, Taiwanese cheesewood	II		S
<i>Pteris vittata</i>	Chinese brake fern	II		N, C, S
<i>Ptychosperma elegans</i>	solitaire palm	II		S
<i>Rhoeo spathacea</i> (see <i>Tradescantia spathacea</i> )				
<i>Ricinus communis</i>	castor bean	II		N, C, S
<i>Rotala rotundifolia</i>	roundleaf toothcup, dwarf Rotala	II		S
<i>Sansevieria hyacinthoides</i>	bowstring hemp	II		C, S
<i>Sesbania punicea</i>	purple sesban, rattlebox	II		N, C, S
<i>Solanum diphyllum</i>	two-leaf nightshade	II		N, C, S
<i>Solanum jamaicense</i>	Jamaica nightshade	II		C
<i>Solanum torvum</i>	susumber, turkey berry	II	N, U	N, C, S

***Callistemon viminalis***, added to list as Category II

Bottlebrush (*Callistemon viminalis*), a popular landscape tree, is now invading undisturbed short hydroperiod wetland communities in Miami-Dade, Collier, and Martin Counties, including those in Big Cypress National Preserve and Everglades National Park.

***Dactyloctenium aegyptium***, added to list as Category II

Durban crowfootgrass (*Dactyloctenium aegyptium*) is an annual grass that is a widely distributed weed throughout the southeastern US. In Florida, this species has been documented in 54 counties. While it is primarily a weed of disturbed areas, it also invades beach dune communities in southern Florida, including those located within Everglades and Dry Tortugas National Parks. Dense growth of this species interferes with ground nesting birds in Dry Tortugas and competes with state and federally listed plant species on the mainland.

***Elaeagnus umbellata***, added to list as Category II

Autumn-olive (*Elaeagnus umbellata*) is an aggressive shrub capable of replacing entire native ecosystems, which it has done in numerous locations in other states. There are three known native locations in the eastern Florida panhandle; two are local escapes from cultivation. The third is a mixture of mature upland sand hill and pine communities where a wildlife planting has escaped. The entire 2,081 acre site is infested. The infestation ranges from 100% (12.5 acres), to 50% (49.9 acres), to 25% (38.3 acres), to 10% or less (1,683.4 acres).

***Hyparrhenia rufa***, added to list as Category II

Jaragua (*Hyparrhenia rufa*) is an annual grass that is known from 14 Florida counties. In Miami-Dade County it has been found in intact habitat in at least 12 pine rockland fragments, outcompeting native plant species.

***Landoltia punctata***, added to list as Category II

Spotted duckweed (*Landoltia punctata*) is a small floating aquatic plant that is native to Australia and Southeast Asia. Since it was first found in Missouri in the 1930s, it has spread to 22 states and been documented in 36 Florida counties. It invades a wide range of undisturbed aquatic habitats and outcompetes native species.

***Syzygium jambos***, formerly Category II, removed from List

The Committee has not been able to locate data showing this species behaves as a Category II invasive.

## Use of the FLEPPC List

FLEPPC encourages use of the Invasive Species List for prioritizing and implementing management efforts in natural areas, for educating lay audiences about environmental issues, and for supporting voluntary invasive plant removal programs. When a non-native plant species is to be restricted in some way by law, FLEPPC encourages use of the List as a first step in identifying species worth considering for particular types of restriction. For more information on using the FLEPPC List of Invasive Plant Species, see *Wildland Weeds* Summer 2002 issue (Vol. 5, No. 3), pp. 16-17, or <http://www.fleppc.org/list/list.htm>

**NOTE:** Not all exotic plants brought into Florida become pest plants in natural areas. The FLEPPC List of Invasive Plant Species represents only about 10% of the nearly 1,400 exotic species that have been introduced into Florida and have subsequently established outside of cultivation. Most escaped exotics usually present only minor problems in highly disturbed areas (such as roadsides). And there are other exotics cultivated in Florida that are "well-behaved" — that is, they don't escape cultivation at all.



[www.fleppc.org](http://www.fleppc.org)

Scientific Name	Common Name	FLEPPC Cat.	Gov. List	Reg. Dist.
<i>Sphagneticola trilobata</i> (= <i>Wedelia trilobata</i> )	wedelia	II		N, C, S
<i>Stachytarpheta cayennensis</i> (= <i>S. urticifolia</i> )	nettle-leaf porterweed	II		S
<i>Syagrus romanzoffiana</i> (= <i>Arecastrum romanzoffianum</i> )	queen palm	II		C, S
<i>Talipariti tiliaceum</i> (= <i>Hibiscus tiliaceus</i> )	mahoe, sea hibiscus	II		C, S
<i>Terminalia catappa</i>	tropical-almond	II		C, S
<i>Terminalia muelleri</i>	Australian-almond	II		C, S
<i>Tradescantia spathacea</i> (= <i>Rhoeo spathacea</i> , <i>Rhoeo discolor</i> )	oyster plant	II		S
<i>Tribulus cistoides</i>	puncture vine, burr-nut	II		N, C, S
<i>Urena lobata</i>	Caesar's weed	II		N, C, S
<i>Vitex trifolia</i>	simple-leaf chaste tree	II		C, S
<i>Washingtonia robusta</i>	Washington fan palm	II		C, S
<i>Wedelia</i> (see <i>Sphagneticola</i> above)				
<i>Wisteria sinensis</i>	Chinese wisteria	II		N, C
<i>Xanthosoma sagittifolium</i>	malanga, elephant ear	II		N, C, S

### Citation example:

FLEPPC. 2009. List of Invasive Plant Species. Florida Exotic Pest Plant Council. Internet: <http://www.fleppc.org/list/list.htm> or *Wildland Weeds* Vol. 12(4): 13-16. Fall 2009.

### The 2009 list was prepared by the FLEPPC Plant List Committee:

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**FLEPPC Database** – The Florida Exotic Pest Plant Database contains over 75,000 sight records of infestations of FLEPPC Category I and Category II species in Florida public lands and waters. 211 species are recorded. Nearly all of the records are from local, state, and federal parks and preserves; a few records document infestations in regularly disturbed public lands such as highways or utility rights-of-way. Natural area managers and other veteran observers of Florida's natural landscapes submit these records, with many supported further by voucher specimens housed in local or regional herbaria for future reference and verification. New and updated observations can be submitted online at [www.eddmaps.org/florida/](http://www.eddmaps.org/florida/). This database, along with other plant-data resources such as the University of South Florida Atlas of Florida Vascular Plants at [www.plantatlas.usf.edu](http://www.plantatlas.usf.edu), the Florida Natural Areas Inventory database at [www.fnai.org](http://www.fnai.org), and The Institute for Regional Conservation Floristic Inventory of South Florida database at [www.regionalconservation.org](http://www.regionalconservation.org), provides important basic supporting information for the FLEPPC List of Invasive Plant Species.

**Images and/or distributional data of FLEPPC-listed species** may be found at one or more of the following websites: University of South Florida Atlas of Florida Vascular Plants, [www.plantatlas.usf.edu](http://www.plantatlas.usf.edu); the University of Florida Herbarium collection catalog, <http://www.flmnh.ufl.edu/herbarium/cat/>, and image gallery, <http://www.flmnh.ufl.edu/herbarium/cat/imagesearch.asp>; at Fairchild Tropical Botanic Garden's Virtual Herbarium, [www.virtualherbarium.org/vhportal.html](http://www.virtualherbarium.org/vhportal.html); The Robert K. Godfrey Herbarium at Florida State University, <http://herbarium.bio.fsu.edu/index.php>; the University of Florida's IFAS Center for Aquatic and Invasive Plants, <http://plants.ifas.ufl.edu>, and the USDA PLANTS database, <http://plants.usda.gov/>. Please note that greater success and accuracy in searching for plant images is likely if you search by scientific name rather than a common name. Common names often vary in cultivation and across regions. For additional information on plants included in this list, see related links and pages at [www.fleppc.org](http://www.fleppc.org).

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
SUBMERGED LANDS AND ENVIRONMENTAL RESOURCES PROGRAM  
SITE SURVEY REPORT

**\*Please include copy for CE file\***

FILE NO.: 13-0306269-001

APPLICANT: City of Miami, c/o Tony Crapp Jr., City Manager, 444 S.W. 2nd Avenue, 10th Floor, Miami, FL 33130  
E-mail: tcrapp@miamigov.com

CONSULTANT/AGENT: Joshua Mahoney, Biologist II, Miami-Dade DERM, Restoration & Enhancement Section,  
E-mail: Mahonj@miamidade.gov

WATERBODY: Biscayne Bay

COUNTY: Miami-Dade

LOCATION OF PROJECT/ACTIVITY: The project is located in Biscayne Bay, within the Biscayne Bay Preserve, Class III Waters, Outstanding Florida Waters, along the shoreline of a finger island (25° 45' 5.04" North Latitude, 80° 10' 21.83" West Longitude) and along the shoreline of a spoil island (25° 44' 59.83" North Latitude, 80° 10' 27.33" West Longitude), Miami (Sections 17 and 18, Township 54 South, Range 42 East), in Miami-Dade County.

AQUATIC PRESERVE (Y/N): Yes

IS PROJECT/ACTIVITY IN OFW (Y/N): Yes

WATERBODY CLASSIFICATION: III

DATE OF INSPECTION: 05/19/2011

PROJECT/ACTIVITY DESCRIPTION: Install natural limestone riprap (1' to 3' diameter) at a maximum slope of 3H:1V, in order to stabilize portions of the shorelines along two spoil islands, where the finger island (Site 1) shall consist of 1,430-linear feet of riprap, containing 2,370 yd<sup>3</sup> of riprap material within a 31,995 ft<sup>2</sup> area and where the spoil island (Site 2) shall consist of 350-linear feet of riprap, containing 490 yd<sup>3</sup> of riprap material within a 6,615 ft<sup>2</sup> area.

DESCRIPTION OF GENERAL PROJECT/ACTIVITY AREA: The project areas consist of a natural sand beach with sporadic mature mangroves.

EXPECTED IMPACT OF PROJECT/ACTIVITY: There are no seagrass resources located in the direct vicinity of the project areas, therefore impacts to seagrasses are not authorized under this permit. In all areas of construction, the toe of the riprap shall be located a minimum of 3-feet landward of any seagrass resources and riprap shall be hand placed in areas where mangroves exist.

PICTURES: See the attached photographs.

RECOMMENDATIONS: Standard manatee conditions (version 2011) shall be adhered to during all in water work. All work shall be conducted from the uplands and all construction barges shall be used to transport construction material to and from the project site at the locations depicted in the attached permit sketches and during high tide. All watercraft associated with the construction of the permitted structures shall only operate within waters of sufficient depth (one-foot clearance from the deepest draft of the vessel to the top of submerged resources) so as to preclude bottom scouring, prop dredging, or damage to submerged resources. All waterbodies and wetlands outside the specific limits of construction and staging areas shall be protected from erosion, siltation, sedimentation, and/or scouring. Weighted turbidity curtains, extending to within one foot of the bottom, shall be utilized around the project area to ensure that any turbidity resulting from the project will be contained within the project boundaries.

FIELD STAFF: Benny Luedike, Jason Andreotta, Don Keirn, Jennifer Baez

DATE REPORT PREPARED: May 10, 2011

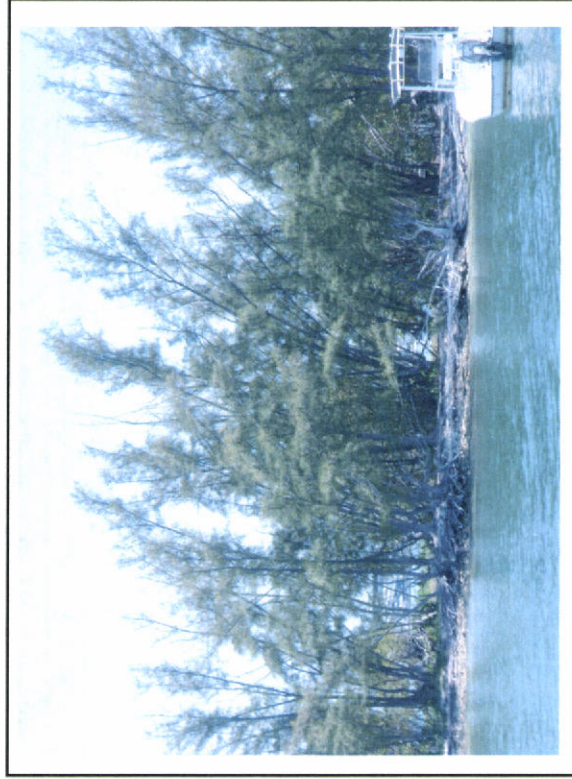
*This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the Department and may be subject to revision pursuant to additional information and further review.*



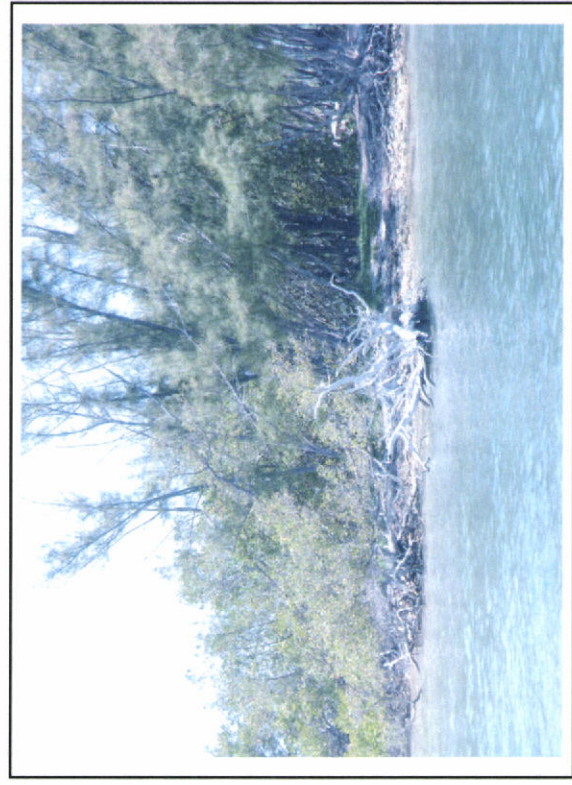
**Photo 1.** View east of western shoreline of spoil island (Site 2).



**Photo 2.** View south of northern shoreline of spoil island (Site 2).



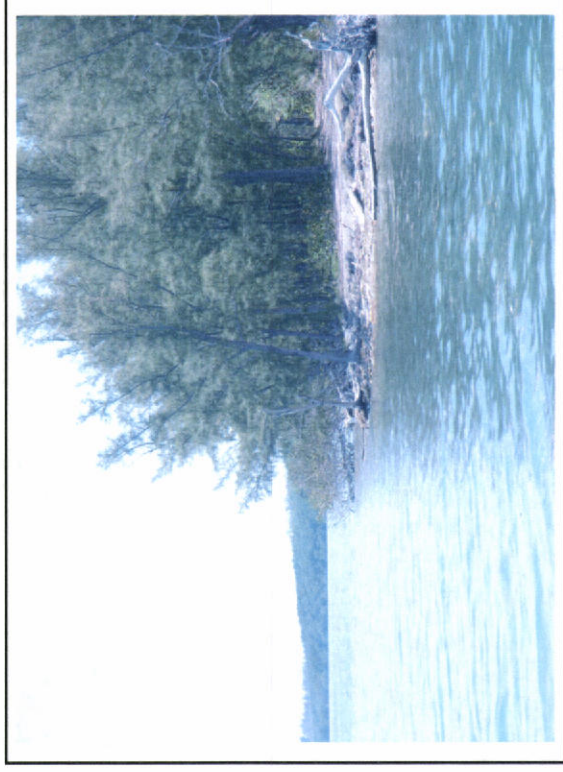
**Photo 3.** View SW of shoreline of spoil island (Site 2).



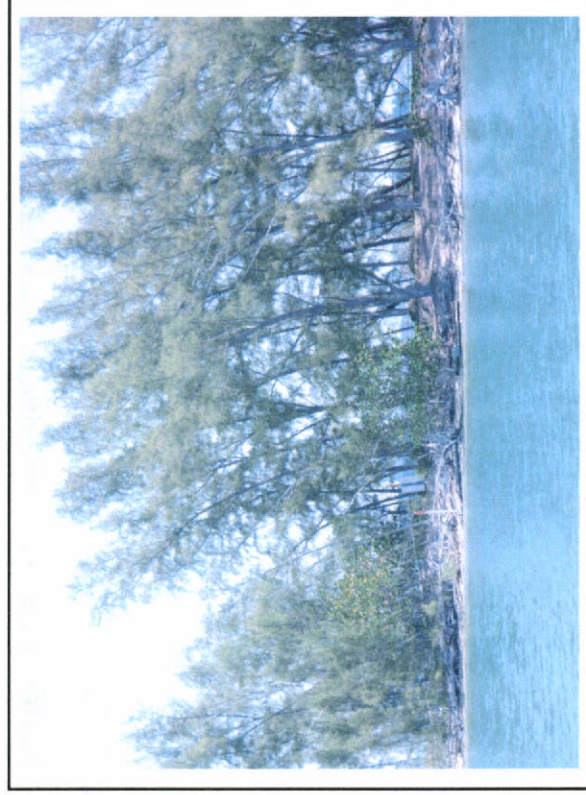
**Photo 4.** View NE of shoreline of spoil island (Site 2).



**Photo 5.** View east of finger island (Site 1).



**Photo 6.** View east along northern shoreline of finger island (Site 1).



**Photo 7.** View north of southern shoreline of finger island (Site 1).

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FL DEP  
WEST PALM BEACH

Photo #1

MARINE STADIUM FINGER ISLANDS

PROJECT AREA  
SITE 1

PROJECT AREA  
SITE 2

ATLANTIC OCEAN

Survey Notes:

1. All survey information used to prepare these drawings is based on a topographic survey ("Topographic Survey, Marine Stadium Finger Island") supervised, signed and sealed by Mr. Michael J. Whitting, P.S.M., Florida License Number 4888, Miami-Dade County Public Works Department, 140 West Flagler Street, Suite #805, Miami, Florida 33130.
2. All measurements were made in US Survey Feet.
3. Elevations are referred to the North American Vertical Datum of 1988 (NAVD). Elevations are based on Miami-Dade County Benchmark, KB-3-R; Said Benchmark being a PK Nail and Brass Washer in concrete curb at the east end of the median at the north Rickenbacker Causeway and Miami Marine Stadium.
4. The horizontal coordinates shown on the survey that were used to prepare these drawings were based on the North American Datum of 1983 (1990 Adjusted).
5. The surveyor stated that no attempt was made to locate underground utilities, footings, buildings, walkway, roads, docks, walls or fences, except if shown hereon.

Drawing Notes:

1. This set of drawings titles, ("Miami Marine Stadium Shoreline Stabilization Projects", Site 1 and 2) were prepared solely for the intent of obtaining all environmental permits necessary to complete this project.
2. These drawings shall not be used for construction.
3. Any deviations in scope from what is presented within these permit drawings shall not be approved unless included in revised set of drawings signed and sealed by Professional Engineer, Licensed in State of Florida.


FOR PERMIT ONLY

JUAN A. CURELL 11/11/2011  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION  
701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

JOB:	AERIAL PICTURES OF AREA AND NOTES	DATE:	02-11
BY:	J.M.C.	SHEET:	2 OF 8

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**WS ID:** 93873

**File Number:** 13-0306269-001

**Counties:** DADE

**Applicant:**

**Address/Bureau:** FOLIO 01-4217-000-0010 LOCATED EAST OF WILLIAM POWELL BRIDGE AND NORTH OF THE RICKENBACKER CAUSEWAY

**Type of Activity:**

<b>Project Location:</b>	<u>Section</u>	<u>Township</u>	<u>Range</u>
	18	54S	42E
	17	54S	42E

**Comments:** SUBMERGED AND PARTLY SUBMERGED LANDS AT SITE WERE INCLUDED IN T1IF DEED NO. 18030 ISSUED TO THE CITY OF MIAMI FOR MUNICIPAL PURPOSES ONLY. PROJECT SITE 1 AND PROJECT SITE 2 ARE WITHIN THE BOUNDARY OF DEED. COPY OF DEED W/MAP ATTACHED.

SKH 5/20/2011 TO BENNY LUEDIKE, SED

**Preparer:** SANDRA K HARRIS

**Date Prepared:** 05/20/2011

<b>Documents:</b>	<u>DM ID</u>	<u>Doc Index</u>	<u>Relevant</u>	<u>Page(s)</u>
	140687	TFI1118030000000000		

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NOTICE: THE CONCLUSIONS AND DETERMINATIONS SET FORTH IN THIS TITLE WORKSHEET ARE BASED ON A REVIEW OF THE RECORDS CURRENTLY AVAILABLE WITHIN THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AS SUPPLEMENTED, IN SOME CASES, BY INFORMATION FURNISHED BY THE REQUESTING PARTY. SINCE THE ACCURACY AND COMPLETENESS OF THE TITLE INFORMATION REVIEWED MAY VARY, THE CONCLUSIONS AND DETERMINATIONS SET FORTH HEREIN DO NOT CONSTITUTE A LEGAL OPINION OF TITLE AND SHOULD NOT BE RELIED ON AS SUCH.

---



REPLY TO  
ATTENTION OF

DEPARTMENT OF THE ARMY  
JACKSONVILLE DISTRICT CORPS OF ENGINEERS  
9900 SOUTHWEST 107<sup>TH</sup> AVE, SUITE 203  
MIAMI, FLORIDA 33176

RECEIVED

JUN 20 2011

FL DEP  
WEST PALM BEACH

JUN 17 2011

Regulatory Division  
South Permits Branch  
Miami Regulatory Office

## ***PUBLIC NOTICE***

Permit Application No. SAJ-2011-01548(IP-JLH)

TO WHOM IT MAY CONCERN: This district has received an application for a Department of the Army permit pursuant to Section 404 of the Clean Water Act (33 U.S.C. §1344) and Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. §403) as described below:

APPLICANT: City of Miami  
c/o Tony E. Crapp, Jr., City Manager  
444 SW 2<sup>nd</sup> Avenue, 2<sup>nd</sup> Floor  
Miami, FL 33130

WATERWAY & LOCATION: The project consists of two (2) sites located in Biscayne Bay, northeast of the Rickenbacker Causeway at the Miami Marine Stadium Park, in Sections 8, 17 and 18, Township 54 South, Range 42 East, in Miami, Miami-Dade County, Florida (Folio # 01-4217-000-0010). Site 1 is located at the northeastern perimeter of the marine stadium basin. Site 2 is located at a spoil island at the mouth of the marine stadium basin, approximately 600 feet southwest of Site 1. (See attached location map).

LATITUDE & LONGITUDE:

Site 1: Latitude 25.751196° North  
Longitude 80.172550° West

Site 2: Latitude 25.749886° North  
Longitude 80.174153° West

PROJECT PURPOSE:

Basic: The basic project purpose is for shoreline stabilization.

Overall: The overall project purpose is for shoreline stabilization at two (2) existing sites at the marine stadium basin in Miami, Florida.

PROPOSED WORK: The applicant proposes to stabilize the eroding shorelines of Sites 1 and 2 by placing natural limerock boulders (1-3 feet in diameter) underlain with filter fabric on the unconsolidated shorelines. The applicant proposes to place 31,995 square feet (2,370 cubic

yards) of rip rap along 1,430 linear feet of shoreline at Site 1, and 6,615 square feet (490 cubic yards) of rip rap along 350 linear feet of shoreline at Site 2. The applicant will deploy floating turbidity barriers prior to the commencement of work, which will remain in place until the work is completed and all erodible materials have stabilized. Work is proposed in U.S. waters.

AVOIDANCE & MINIMIZATION INFORMATION: The applicant has provided the following information in support of efforts to avoid and/or minimize impacts to the aquatic environment:

“The project has been designed around existing natural resources; therefore, no natural resources will be impacted as a result of the proposed shoreline enhancements...Any stabilization in the area of existing buttonwoods or mangroves will be done in such a manner as to prevent any impacts to any existing vegetation.” The applicant’s current proposal avoids all impacts to seagrass present at the sites. The applicant will deploy floating turbidity barriers prior to the commencement of work, which will remain in place until the work is completed and all erodible materials have stabilized.

COMPENSATORY MITIGATION: The applicant has provided the following explanation why compensatory mitigation should not be required:

“The project has been designed around existing natural resources; therefore, no natural resources will be impacted as a result of the proposed shoreline enhancements.”

EXISTING CONDITIONS: The system consists of a saltwater system. Onsite vegetation consists primarily of Australian pines (*Casuarina spp.*), with green buttonwoods (*Conocarpus erectus*) and red mangroves (*Rhizophora mangle*). The soils are mapped as udorthents. Seagrass exists waterward of the proposed rip rap.

ENDANGERED SPECIES: The U.S. Army Corps of Engineers (Corps) has determined the proposal “may affect, but is not likely to adversely affect” the West Indian Manatee (*Trichechus manatus*) or its designated critical habitat. The Corps has programmatic concurrence with this determination pursuant to the Effect Determination Key for the Manatee dated March 2011.

The Corps has determined the project will have “no effect” on Johnson’s seagrass (*Halophila johnsonii*) because seagrass is not located in the project footprint and all seagrass impacts will be avoided. A portion of Site 1 is located within the geographic range of Johnson’s seagrass critical habitat. Because the project is for the stabilization of an eroding shoreline and does not involve impacts to seagrass areas, the Corps has determined the project will have “no effect” on Johnson’s seagrass critical habitat. It is determined that the elements essential for the conservation of the species (adequate water quality, salinity, water transparency and stable, unconsolidated sediments free from physical disturbance) are located outside of the project footprint, waterward of the proposed rip rap area.

ESSENTIAL FISH HABITAT (EFH): This notice initiates consultation with the National Marine Fisheries Service on EFH as required by the Magnuson-Stevens Fishery Conservation and Management Act 1996. The proposal would impact approximately 0.89 acre of aquatic resources considered essential habitat for Federally managed species and associated species as

identified by the South Atlantic Fisheries Management Council. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or Federally managed fisheries in Biscayne Bay. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

NOTE: This public notice is being issued based on information furnished by the applicant. This information has not been verified or evaluated to ensure compliance with laws and regulation governing the regulatory program. The jurisdictional line has not been verified by Corps personnel.

AUTHORIZATION FROM OTHER AGENCIES: Water Quality Certification may be required from the Florida Department of Environmental Protection and/or one of the state Water Management Districts.

Comments regarding the application should be submitted in writing to the District Engineer at the above address within 21 days from the date of this notice.

If you have any questions concerning this application, you may contact Jessica Hammers at the letterhead address, by telephone at 305-779-6056, by fax at 305-526-7184, or by electronic mail at [Jessica.L.Hammers@usace.army.mil](mailto:Jessica.L.Hammers@usace.army.mil).

The decision whether to issue or deny this permit application will be based on the information received from this public notice and the evaluation of the probable impact to the associated wetlands. This is based on an analysis of the applicant's avoidance and minimization efforts for the project, as well as the compensatory mitigation proposed.

**IMPACT ON NATURAL RESOURCES:** Preliminary review of this application indicates an Environmental Impact Statement will not be required. Coordination with U.S. Fish and Wildlife Service, Environmental Protection Agency (EPA), the National Marine Fisheries Services, and other Federal, State, and local agencies, environmental groups, and concerned citizens generally yields pertinent environmental information that is instrumental in determining the impact the proposed action will have on the natural resources of the area.

**IMPACT ON CULTURAL RESOURCES:** Review of the latest published version of the National Register of Historic Places indicates that no registered properties or properties listed as eligible for inclusion therein are located at the site of the proposed work. Unknown archaeological, scientific, pre-historical, or historical data may be lost or destroyed by the work to be accomplished.

**EVALUATION:** The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including cumulative impacts thereof; among these are conservation, economics, esthetics, general environmental concerns, wetlands, historical properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food, and fiber production, mineral needs, considerations of property ownership, and in general, the needs and welfare of the people. Evaluation of the impact of the activity on the public interest will also include application of the guidelines promulgated by the Administrator, EPA, under authority of Section 404(b) of the Clean Water Act or of the criteria established under authority of Section 102(a) of the Marine Protection Research and Sanctuaries Act of 1972. A permit will be granted unless its issuance is found to be contrary to the public interest. The US Army Corps of Engineers (Corps) is soliciting comments from the public; Federal, State, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this determination, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

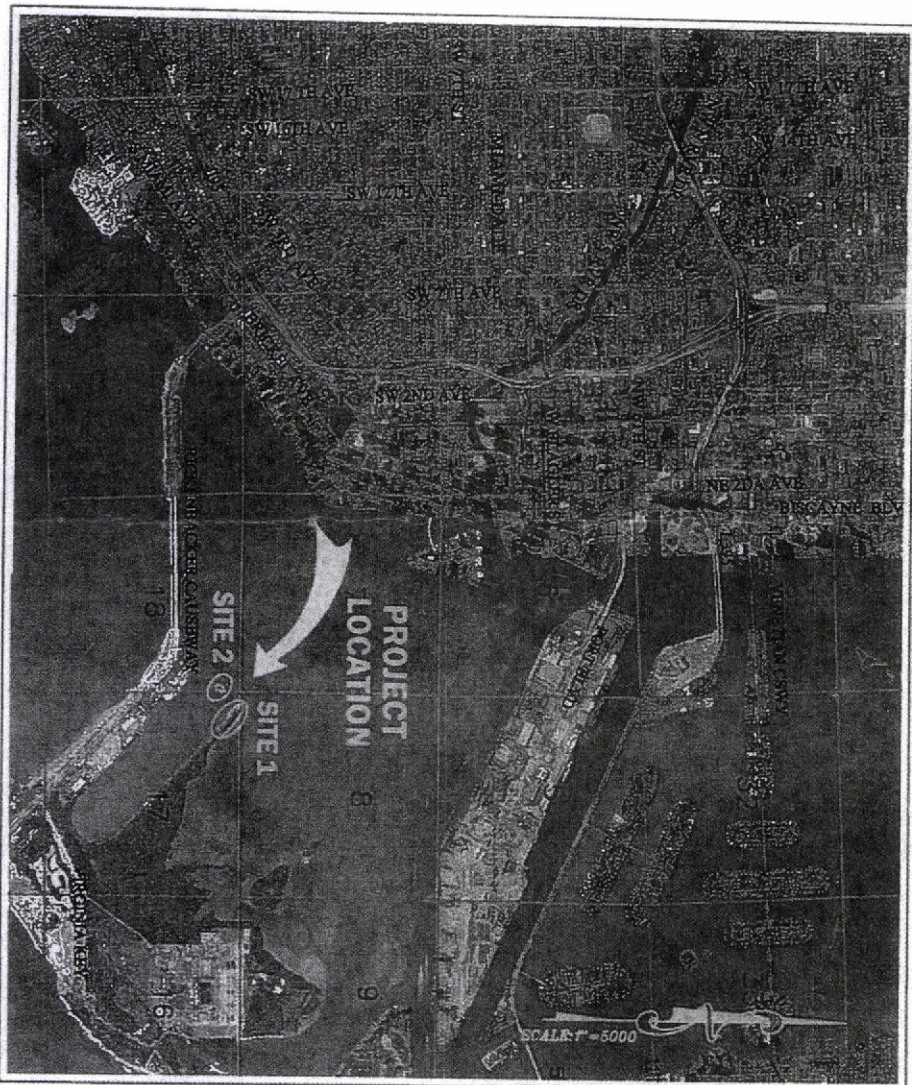
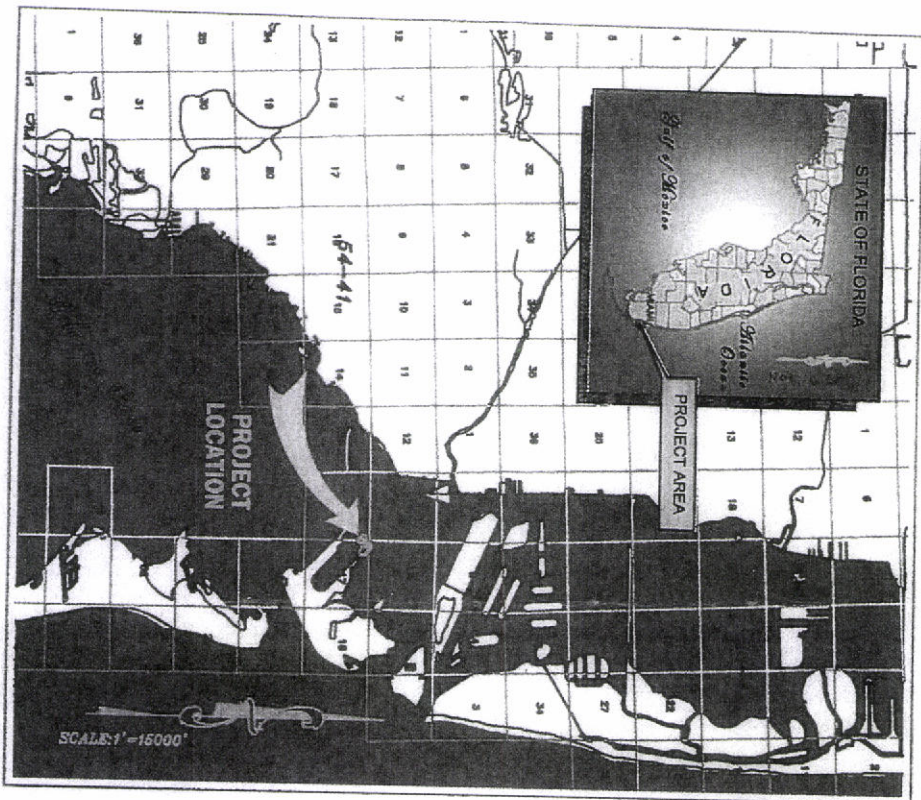
**COASTAL ZONE MANAGEMENT CONSISTENCY:** In Florida, the State approval constitutes compliance with the approved Coastal Zone Management Plan. In Puerto Rico, a Coastal Zone Management Consistency Concurrence is required from the Puerto Rico Planning Board. In the Virgin Islands, the Department of Planning and Natural Resources permit constitutes compliance with the Coastal Zone Management Plan.

**REQUEST FOR PUBLIC HEARING:** Any person may request a public hearing. The request must be submitted in writing to the District Engineer within the designated comment period of the notice and must state the specific reasons for requesting the public hearing.

*D. M. Kuiaid*

# MIAMI MARINE STADIUM PARK SHORELINE STABILIZATION PROJECT ( Site 1 & 2 )

DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT ( DERM )  
MIAMI DADE COUNTY  
NOT FOR CONSTRUCTION; FOR PERMIT ONLY



LOCATION MAP

SECTIONS: 8, 17, 18 TWN. 54 RANGE: 42

US ARMY

VICINITY MAP

FOR PERMIT ONLY

## INDEX OF SHEETS

1. VICINITY MAP & INDEX OF DRAWINGS
2. AERIAL PICTURES OF AREA AND NOTES
3. MARINE STADIUM FINGER ISLAND, SITE PLAN (SITE 1)
4. MARINE STADIUM FINGER ISLAND, SITE PLAN (SITE 2)
5. TYPICAL CROSS SECTION, SITE 1 "A" & "B"
6. TYPICAL CROSS SECTION, SITE 1 "C" & "D"
7. TYPICAL CROSS SECTION, SITE 2 "A" & "B"
8. TYPICAL CROSS SECTION, SITE 2 "C" & "D"

State of Florida Professional Engineer

JUAN A. CURIEL 17211

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

License No. 63890

CODE # 2011-01548

PROJECT MANAGER: JAH

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
( NOT FOR CONSTRUCTION )

JOB: VICINITY MAP & INDEX OF DRAWINGS

BY: J.M.C.

DATE: 02-11

SHEET: 1 OF 8

Proposed 1/8

RECEIVED JUN 06 2011

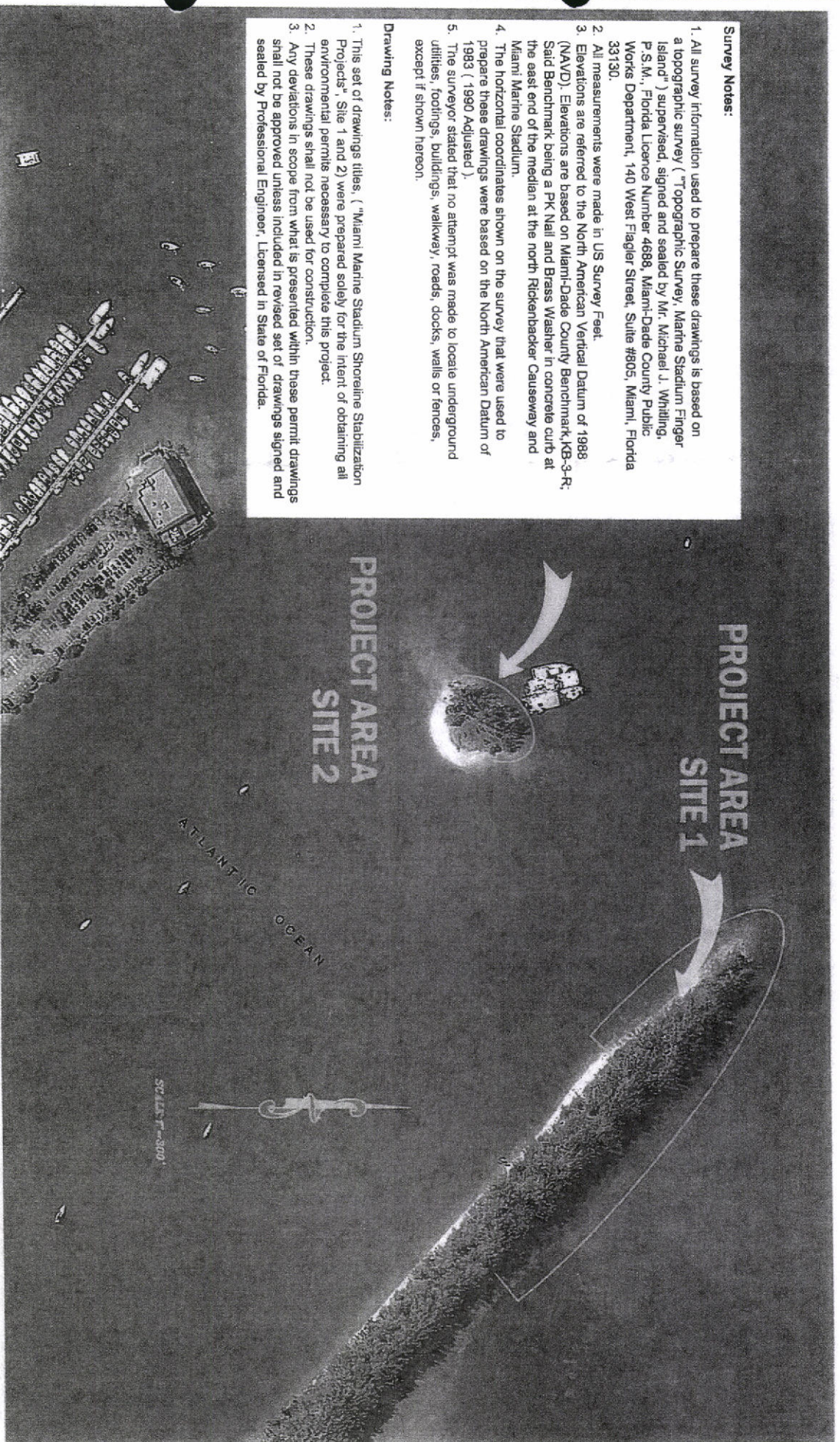
# MARINE STADIUM FINGER ISLANDS

## Survey Notes:

1. All survey information used to prepare these drawings is based on a topographic survey ("Topographic Survey, Marine Stadium Finger Island") supervised, signed and sealed by Mr. Michael J. Whiting, P.S.M., Florida Licence Number 4688, Miami-Dade County Public Works Department, 140 West Flagler Street, Suite #805, Miami, Florida 33130.
2. All measurements were made in US Survey Feet.
3. Elevations are referred to the North American Vertical Datum of 1988 (NAVD). Elevations are based on Miami-Dade County Benchmark KB-3-R, Said Benchmark being a PK Nail and Brass Washer in concrete curb at the east end of the median at the north Rickenbacker Causeway and Miami Marine Stadium.
4. The horizontal coordinates shown on the survey that were used to prepare these drawings were based on the North American Datum of 1983 (1990 Adjusted).
5. The surveyor stated that no attempt was made to locate underground utilities, footings, buildings, walkway, roads, docks, walls or fences, except if shown hereon.

## Drawing Notes:

1. This set of drawings titles, ("Miami Marine Stadium Shoreline Stabilization Projects", Site 1 and 2) were prepared solely for the intent of obtaining all environmental permits necessary to complete this project.
2. These drawings shall not be used for construction.
3. Any deviations in scope from what is presented within these permit drawings shall not be approved unless included in revised set of drawings signed and sealed by Professional Engineer, Licensed in State of Florida.



FOR PERMIT ONLY

JUN 17 2011

State of Florida Professional Engineer

License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
(NOT FOR CONSTRUCTION)

JOE:  
AERIAL PICTURES OF AREA AND NOTES

BY:

J.M.C.

DATE: 02-11

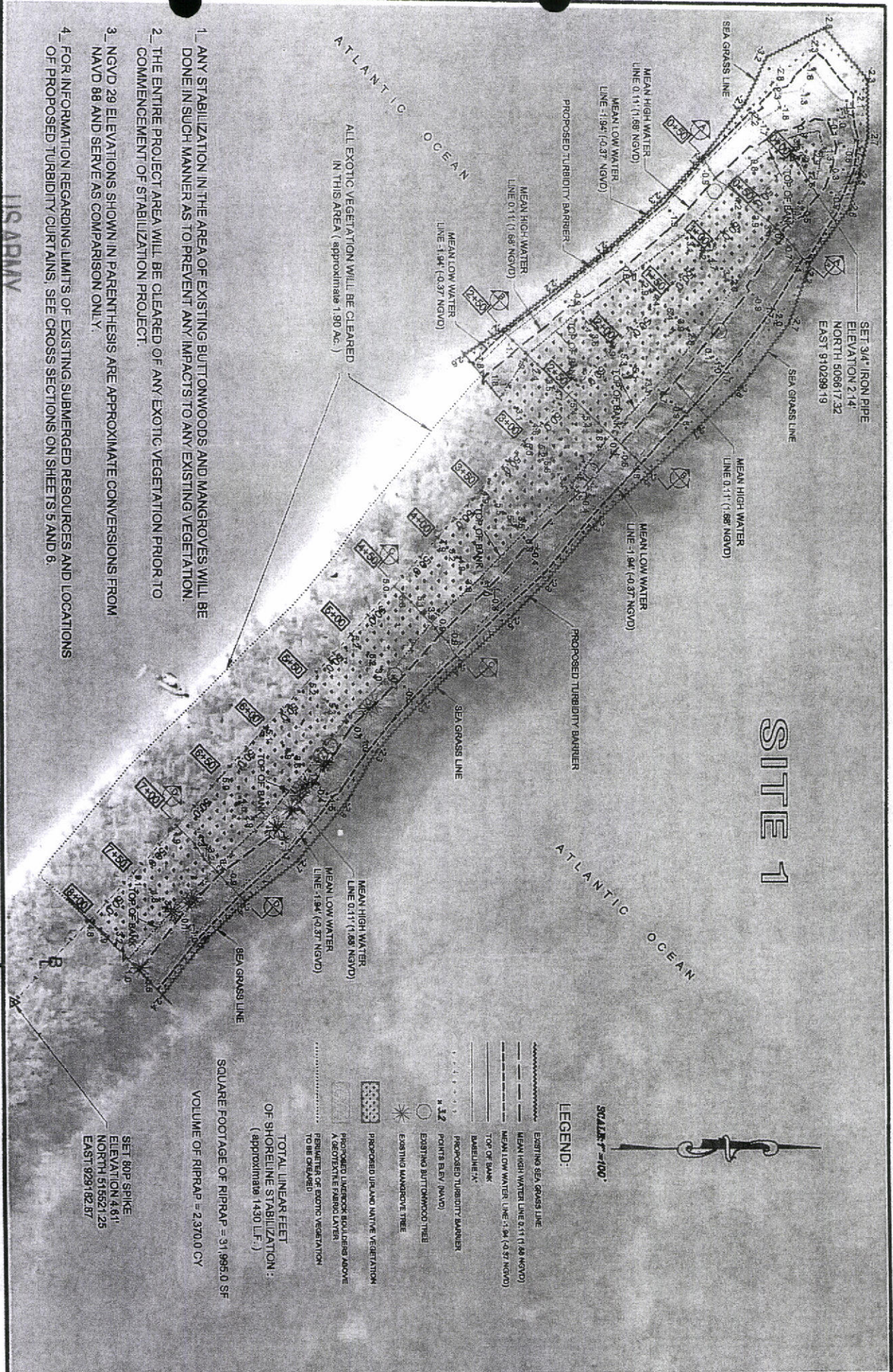
SHEET: 2 OF 8

CODE # 2011-01448

JCH

Proposed 2/8

PROJECT MANAGER



1. ANY STABILIZATION IN THE AREA OF EXISTING BUTTWOODS AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
2. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
3. NGVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.
4. FOR INFORMATION REGARDING LIMITS OF EXISTING SUBMERGED RESOURCES AND LOCATIONS OF PROPOSED TURBIDITY CURTAINS, SEE CROSS SECTIONS ON SHEETS 5 AND 6.

U.S. ARMY

CORPS OF ENGINEERS

FOR PERMIT ONLY 2011

WITHIN THE DISTRICT OFFICE

COE # 2011-01548

PROJECT MANAGER 02/11

proposed 3/8

JUAN A. CUREL  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

JOB: MARINE STADIUM FINGER ISLAND  
SITE PLAN (SITE 1)

BY: J.M.C.

DATE: 02-11

SHEET: 3 OF 8

# SITE 2

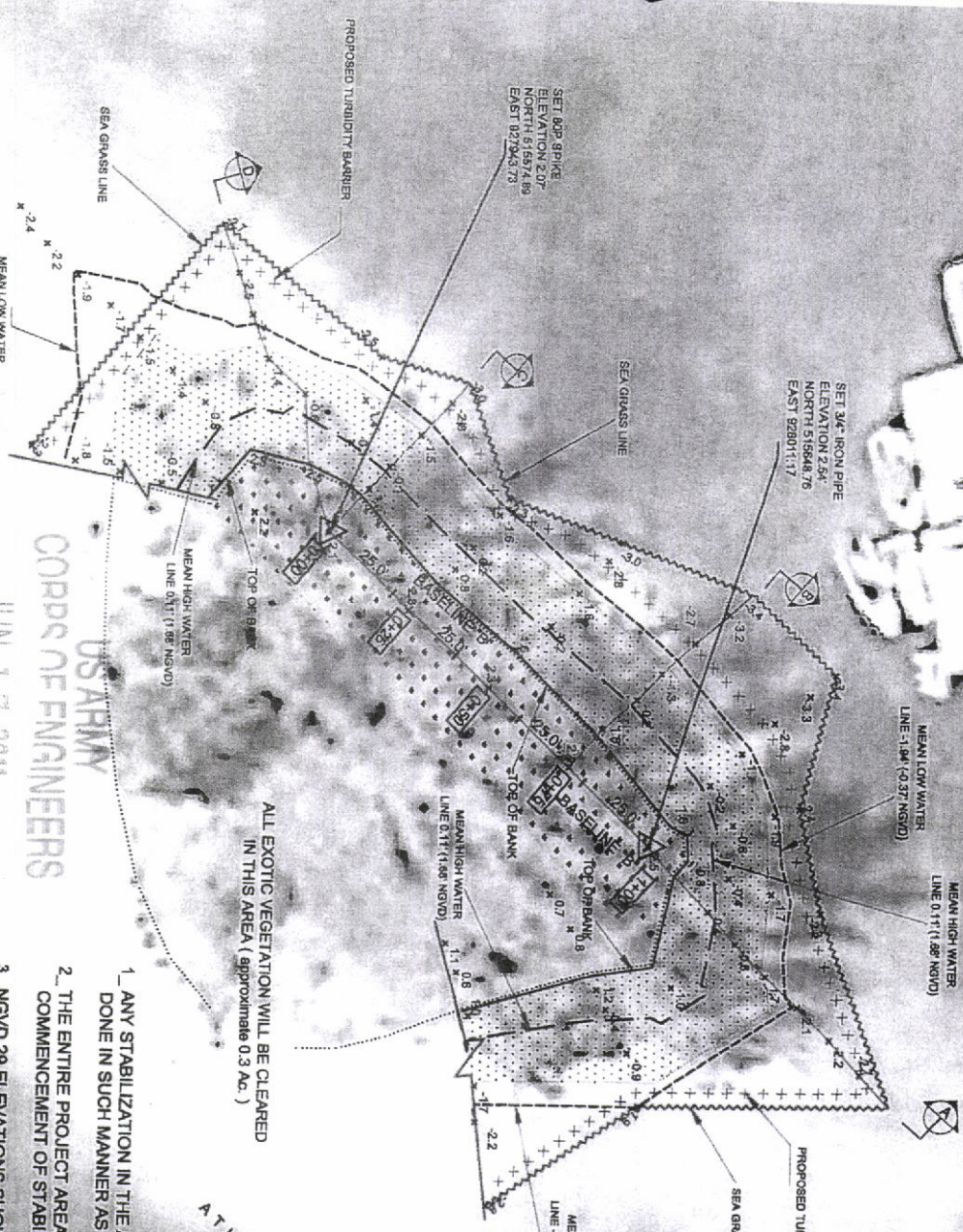
SCALE: 1"=40'

## LEGEND:

- EXISTING SEA GRASS LINE
- MEAN HIGH WATER LINE 0.11 (1.68 NGVD)
- MEAN LOW WATER LINE -1.94 (-0.37 NGVD)
- TOP OF BANK
- PROPOSED TURBIDITY BARRIER
- POINTS ELEV. (NAVD)
- PROPOSED UPLAND NATIVE VEGETATION
- PROPOSED LIMESTONE BOULDER ABOVE A GEOTEXTILE FABRIC LAYER
- PERIMETER OF EXOTIC VEGETATION TO BE CLEARED
- TOTAL LINEAR FEET OF SHORELINE STABILIZATION: (approximate 350 L.F.)
- SQUARE FOOTAGE OF RIPRAP = 6,815.0 SF
- VOLUME OF RIPRAP = 480.0 CY

## NOTES:

1. ANY STABILIZATION IN THE AREA OF EXISTING BUTTONGROVES AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
2. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
3. NGVD 29 ELEVATIONS SHOWN IN PARENTHESES ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.
4. FOR INFORMATION REGARDING LIMITS OF EXISTING SUBMERGED RESOURCES AND LOCATIONS OF PROPOSED TURBIDITY CURTAINS, SEE CROSS SECTIONS ON SHEETS 7 AND 8.



US ARMY  
CORPS OF ENGINEERS

JUN 17 2011

COE # 2011-01548

PROJECT NUMBER 2211

FOR PERMIT ONLY

State of Florida Professional Engineer  
License No. 63890

PROPOSED 4/8  
JUAN A. CURIEL

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

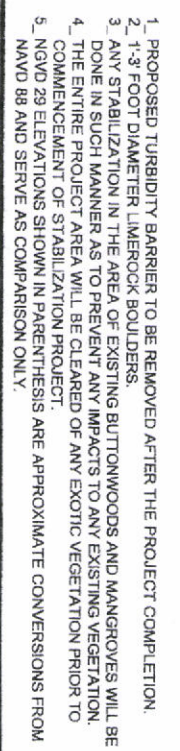
MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

JOB: MARINE STADIUM FINGER ISLAND  
SITE PLAN (SITE 2)

BY: J.M.C.

DATE: 02-11

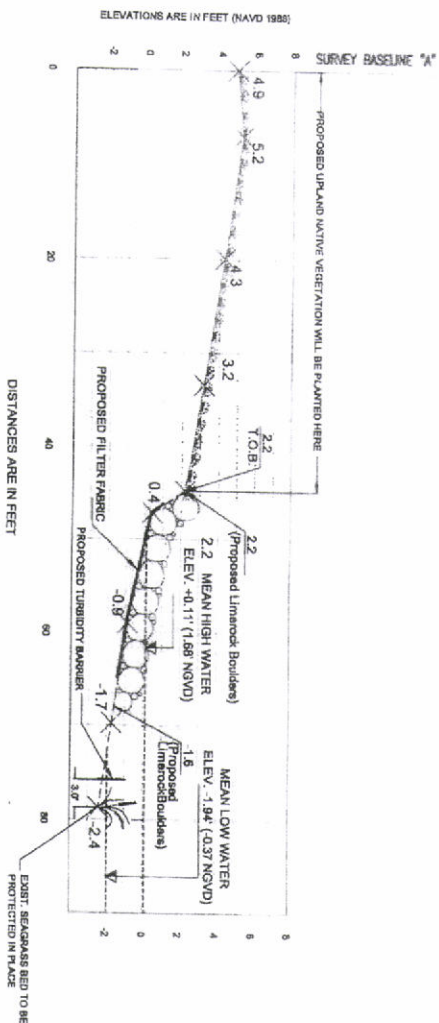
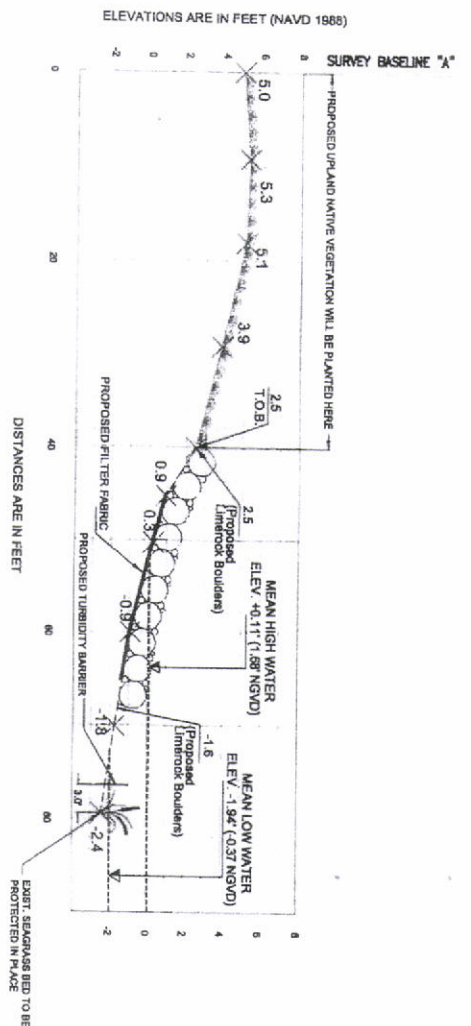
SHEET: 4 OF 8



JO#:	DATE:
TYPICAL CROSS SECTION SITE 1 "A" & "B"	02-11
BY: J.M.C.	SHEET: 5 OF 6

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

# SITE 1



- NOTES:
1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
  2. 1-3 FOOT DIAMETER LIMEROCK BOULDERS.
  3. ANY STABILIZATION IN THE AREA OF EXISTING BUTTOWOODS AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
  4. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
  5. NGVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

FOR PERMIT ONLY

JUAN A. CUREL  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DEEM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

JOB: TYPICAL CROSS SECTION - SITE 1 "C" & "D"  
BY: J.M.C.  
DATE: 02-11  
SHEET: 6 OF 8

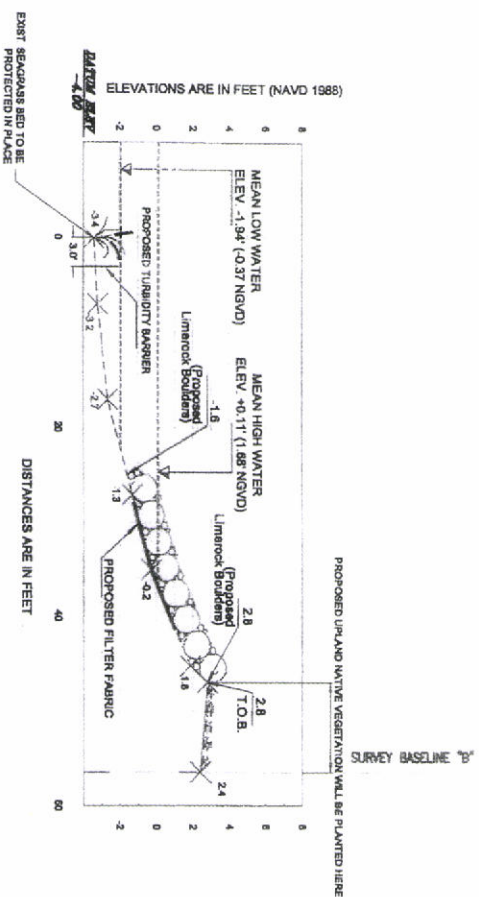
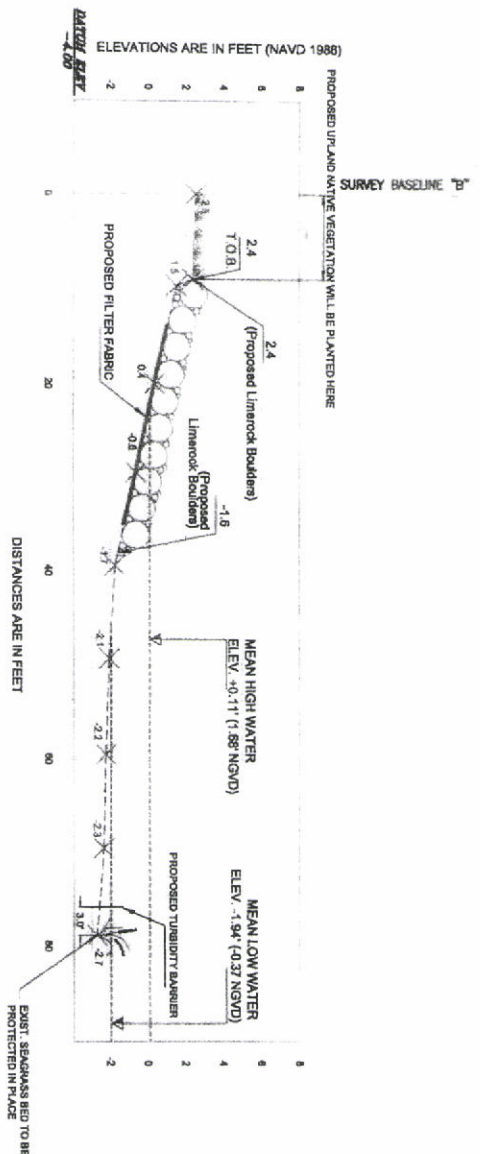
US ARMY  
CORPS OF ENGINEERS

JUL 17 2011

COE # 2011-01548  
PROJECT MANAGER: JCH

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

# SITE 2



- NOTES:
1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
  2. 1-3 FOOT DIAMETER LIMEROCK BOULDERS.
  3. NGVD 29 ELEVATIONS SHOWN IN PARENTHESES ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

FOR PERMIT ONLY

JUAN A. CURIEL  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

JOB: TYPICAL CROSS SECTION - SITE 2 'A' & 'B'  
BY: J.M.C.  
DATE: 02-11  
SHEET: 7 OF 8

USARMY  
CORPS OF ENGINEERS

JUN 17 2011

MIAMI REGIONAL OFFICE

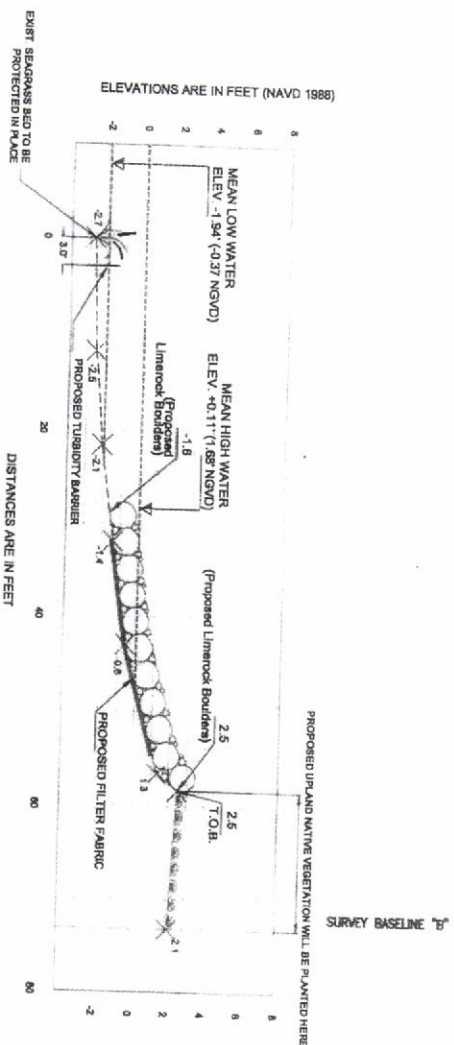
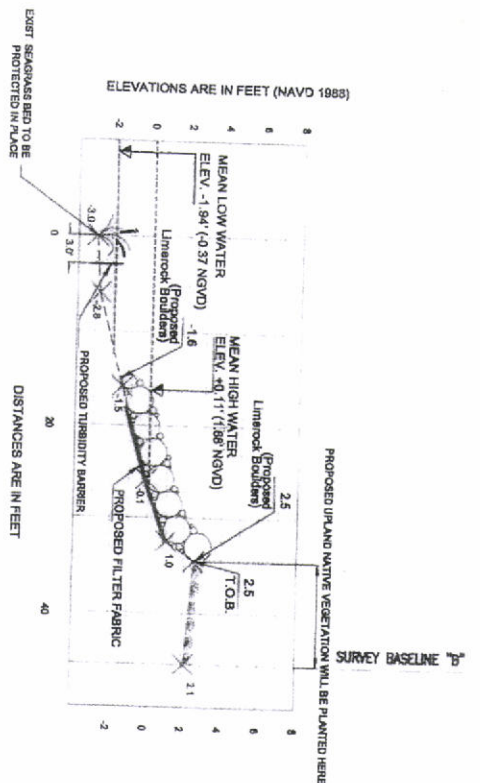
COE #: 2011-01548

PROJECT MANAGER: JCH

proposed 7/8

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

# SITE 2



- NOTES:
1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
  2. 1'-3' FOOT DIAMETER LIMEROCK BOULDERS.
  3. NAVD 88 ELEVATIONS SHOWN IN PARENTHESES ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

FOR PERMIT ONLY

JUAN A. CURIEL  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DEEM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
(NOT FOR CONSTRUCTION)

JOB:  
TYPICAL CROSS SECTION - SITE 2 'C' & 'D'

BY: J.M.C.

DATE: 02-11  
SHEET: 8 OF 8

US ARMY  
CORPS OF ENGINEERS

JUN 17 2011

MIAMI RECREATION OFFICE

COE # 2011-01548  
PROJECT MANAGER: JCH

Proposed 8/8

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

## **Luedike, Benny**

---

**From:** Youmans, Kellie [Kellie.Youmans@MyFWC.com]  
**Sent:** Monday, May 23, 2011 3:57 PM  
**To:** Luedike, Benny  
**Cc:** (Stuart.L.Santos@usace.army.mil); Delta\_Harris@fws.gov  
**Subject:** 13-0306269-001, Miami Marine Stadium Spoil Island, Miami-Dade, Manatee Impact Review, SAJ-2011-01300

Benny:

The Florida Fish and Wildlife Conservation Commission (FWC) has reviewed this application to stabilize the shoreline of the Miami Marine Stadium Spoil Island, and provides the following comments.

It is our recommendation that the Standard Manatee Conditions for In-Water Work (revision 2009) be followed for all in-water activity. If they are made conditions of the permit and followed by the applicant, it is our opinion that no significant adverse impacts to manatees will occur.

Please notify this office of the results of this manatee impact review by copy of the Intent to Issue or Deny, and the final agency action. Please do not hesitate to call me at (850) 922-4330 if you have any questions.

Sincerely,

Kellie Youmans  
Environmental Specialist  
Florida Fish and Wildlife Conservation Commission  
Imperiled Species Management Section  
620 South Meridian Street - 6A, Tallahassee, Florida 32399-1600  
Telephone: 850-922-4330  
Facsimile: 850-922-4338



Carlos Alvarez, Mayor

**Department of Environmental Resources Management**

Natural Resources Regulation and Restoration Division

701 NW 1st Court, 6th Floor

Miami, Florida 33136-3912

T 305-372-6567 F 305-372-6407

miamidade.gov

May 18, 2011

Felix Alvarez  
Miami-Dade County DERM  
701 NW 1<sup>st</sup> Court, 6<sup>th</sup> Floor  
Miami, Florida 33136

RE: Class I Permit Application 2011-CLI-PER-00090: City of Miami – Shoreline stabilization located at Marine Stadium Island and Virginia Key, Miami, Miami-Dade County, Florida. (Folio No. 01-4217-000-0010)

Dear Mr. Alvarez:

Please accept this letter in response to your completeness summary for the above referenced application, dated May 13, 2011 (copy enclosed).

The proposed project consists of the stabilizing of shorelines along the eroding portions of the north marine Stadium Basin shoreline and along the eroding portions of the 0.6 acre spoil island located at the mouth of the basin. The unconsolidated shoreline will be stabilized utilizing limestone boulders and native vegetation. The objective of this project is threefold: to stabilize eroding shoreline, to enhance water quality in Biscayne Bay by reducing turbidity, and to provide additional visual and physical access to Biscayne Bay through the removal of existing exotic vegetation and the subsequent planting of appropriate native plant species.

The landward boundary of seagrass and all mangroves and buttonwoods within the proposed project area have been surveyed by a Miami-Dade County Public Works Department survey crew and DERM biologist and are depicted on the enclosed sketches. The proposed placement of limestone boulders is landward of the existing seagrass line. In addition, a minimum buffer of three (3) feet between the proposed construction turbidity barrier and the existing seagrass line is shown on the sketches. Limestone boulders will be placed around existing mangroves and root structures (i.e., away from pneumatophores and prop roots) within the proposed project area to avoid any impacts to mangrove resources. A DERM biologist will be onsite during construction to ensure that impacts to existing resources are avoided. Any unintended impacts to native wetland groundcover vegetation will be restored by DERM upon project completion.

Please see Page 3 of the submitted sketches for specific locations of existing mangroves and buttonwoods within the project area at Site 1. As stated above, no impacts to existing mangrove resources will result from this shoreline stabilization project.

Attached is a site plan depicting the proposed staging/offload areas and the proposed travel route between these areas.

Please accept the following responses regarding the proposed construction methodology:

- Construction materials (i.e., limestone boulders) and equipment will be transported to the project sites from the proposed staging site at the Marine Stadium parking lot via shallow-draft barge and truck. Please see attached site plan depicting the proposed staging/offload areas and the proposed travel route between these areas.
- The type of equipment may include the following: shallow-draft barge, crane, small excavator, loader, and dump trucks.

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- It is anticipated that work at Site 1 will be land-based. Construction materials and equipment be transported from the proposed staging site at the Marine Stadium to the project site via an existing access road. Stabilization of the eroding shoreline along the northwestern portion of Site 2 will be conducted by barge and crane.
- Specifications for the vessels associated with construction are unknown at this time. It is anticipated that a shallow-draft barge will be utilized to transport equipment and materials from the staging site to Site 2. In addition, a skiff or workboat may be utilized to transport personnel between the staging and project sites. Please see attached sketch with proposed staging/offload areas and the proposed travel route between areas.
- The frequency of trips to and from the project sites cannot be determined at this time and is contingent on many factors. However, it is assumed that in an effort to improve overall efficiency and reduce operating costs, the contractor will develop means and methods to conduct the work with the minimum amount of travel time.

An application for a Joint Environmental Resource Permit was submitted to the Florida Department of Environmental Protection on April 19, 2011, and is currently under review. Once a final determination for use of submerged lands is made, this information will be provided.

Please contact me directly if you have any questions or need any additional information.

Sincerely,



Joshua Mahoney, Biologist II  
Restoration and Enhancement Section

cc: Tony Crapp – City of Miami (tcrapp@miamigov.com)  
Albert Gonzalez – U.S. Army Corps of Engineers (albert.gonzalez@usace.army.mil)  
Rosalinda Rodriguez – U.S. Army Corps of Engineers (rosalinda.rodriguez@usace.army.mil)  
Jill King – Florida Department of Environmental Protection (jill.m.king@dep.state.fl.us)

# Miami Marine Stadium Park Shoreline Stabilization: Proposed Staging/Offload Areas





miamidade.gov

Department of Environmental Resources Management  
Natural Resources Regulation and Restoration Division  
701 NW 1st Court, 6th Floor  
Miami, Florida 33136-3912  
T 305-372-6567 F 305-372-6407

May 13, 2011

City of Miami  
c/o Tony Crapp, City Manager  
444 SW 2<sup>nd</sup> Ave  
Miami, Florida 33130

Re: Class I Permit Application 2011-CLI-PER-00090: City of Miami – Shoreline stabilization located at Marine Stadium Island & Virginia Key, Miami, Miami-Dade County, Florida. (Folio No. 01-4217-000-0010)

Dear Mr. Crapp:

Please accept this letter in response to your submittal of a Class I permit application for the above referenced site. DERM staff has conducted a biological assessment and has the following recommendations to continue processing your permit application.

Dense seagrass resources were documented in the general vicinity of the areas where the riprap is to be installed. In addition, halophytic (salt tolerant) wetland vegetation including *Borrchia frutescens* (sea ox-eye), *Metopium toxiferum* (poisonwood), *Sesuvium portulacastrum* (sea purslane), *Avicennia germinans* (black mangrove), *Laguncularia racemosa* (white mangrove) and *Conocarpus erectus* (buttonwood) were also documented along the project sites. The Department can authorize the project as proposed provided that seagrasses and wetland vegetation are protected during construction and no impacts occur as a result of this project.

Sketches submitted to the Department do not include all of the necessary information. Please make the following corrections to any future sketches. Please note, corrections on sketches should be reviewed and approved by the Department before signed and sealed plans are submitted.

- Please depict the general location of the wetland vegetation and associated dune system on the sketches.
- Please include a site plan depicting the staging/offload areas (mainland and project site) and the proposed travel route between staging/offload areas.

Please submit a construction methodology for the proposed work that includes the following information:

- Indicate how the riprap boulders and construction equipment are to be transported to the project site.
- The type of equipment to be used.
- The location from which the work will take place (e.g. in-water barge or island).
- Typical specifications for the all the vessels associated with construction activities and proposed mooring locations.
- The frequency of trips to and from the project sites for the transport of construction personnel, materials, and equipment. In addition, please provide information regarding potential impacts to navigation as a result of construction operations.

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Direct approval or exemption from the Florida Department of Environmental Protection for the use of the submerged lands is required prior to the issuance of the Class I permit. Please contact Jill King at (561) 681-6638 for more information.

Be advised that the submitted application package is incomplete. Attached please find a Completeness Summary detailing items required in order to complete your Class I Permit Application Package. **Please submit all of the required items within 30 days of the date of issuance of this letter in order for your application to remain in active status.**

Attached please also find a State and Federal Delegated Review Checklist containing additional information and indicating additional items to be submitted prior to Class I permit issuance.

If you have any questions concerning the above referenced application, please contact me at (305) 372-6593 or alvarf@miamidade.gov.

Sincerely,

  
Felix Alvarez, Biologist  
Coastal Resources Section

cc: Joshua Mahoney – Authorized Permit Agent (via email: mahonj@miamidade.gov)  
Albert Gonzalez – U.S. Army Corps of Engineers (albert.gonzalez@usace.army.mil)  
Rosalinda Rodriguez – U.S. Army Corps of Engineers (rosalinda.rodriguez@usace.army.mil)  
Jill King – Florida Department of Environmental Protection (jill.m.king@dep.state.fl.us)

**COMPLETENESS SUMMARY**  
**COASTAL CONSTRUCTION PERMIT APPLICATION**  
**PROJECT NO. 2011-CLI-PER-00090**

**PROJECT NAME:** City of Miami  
**PROJECT ADDRESS:** Marine Stadium Island & Virginia Key  
**DATE:** May 13, 2011  
**PROJECT MANAGER:** Felix Alvarez

**THE FOLLOWING ITEMS WERE OMITTED OR WERE FOUND TO BE INCOMPLETE IN YOUR APPLICATION AS SUBMITTED:**

**THE FOLLOWING DOCUMENTS SHALL BE SUBMITTED TO CONTINUE PROCESSING YOUR PERMIT APPLICATION:**

- Revised sketches including corrections listed in the Completeness Summary Cover Letter shall be submitted for further review by the Department.
- A minimum of 4 copies of engineer signed and sealed plans with location map depicting all existing and proposed structures including cross-sectional and plan views of proposed structures and shop drawings if applicable shall be requested once the sketches have been reviewed and approved by DERM.
- Construction methodology.

**DOCUMENTS REQUIRED PRIOR TO PERMIT ISSUANCE:**

- Name, address, telephone and license number of the contractor who will perform the work.
- Structural and zoning approvals from the City of Miami.
- Authorization for the use of the submerged lands

**STATE AND FEDERAL CHECKLIST**

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP)**

DERM has been delegated the authority to review the proposed project and grant proprietary authorization for the use of sovereign submerged lands pursuant to an operating agreement between DERM and FDEP.

- DERM is unable to grant proprietary authorization under this delegation for the proposed scope of work. Direct approval or exemption from FDEP for use of the sovereign submerged lands will be required prior to permit issuance. Please contact Jill King at the FDEP at (561) 681-6683 for more information.
- Regulatory approval may be required.

**UNITED STATES ARMY CORPS OF ENGINEERS (USACE)**

- Direct approval or exemption from the USACE may be required for the proposed work. Please contact Albert Gonzalez at the USACE at (305) 779-6055 for more information.

**PLEASE SUBMIT THIS INFORMATION AS SOON AS POSSIBLE SO THAT WE MAY COMPLETE THE PROCESSING OF YOUR APPLICATION. ANY QUESTIONS SHOULD BE DIRECTED TO THE DERM PROJECT MANAGER LISTED ABOVE.**

cc: Permit Agent\Contractor

SECTION A

FOR AGENCY USE ONLY

ACOE Application #  
Date Application Received  
Proposed Project Lat.  
Proposed Project Long.

DEP/WMD Application #  
Date Application Received  
Fee Received \$  
Fee Receipt #

**PART 1:**

Are any of the activities described in this application proposed to occur in, on, or over wetlands or other surface waters? ☒ yes ☐ no

Is this application being filed by or on behalf of a government entity or drainage district? ☒ yes ☐ no

**PART 2:**

A. Type of Environmental Resource Permit Requested (check at least one). See Attachment 2 for thresholds and descriptions.

- ☐ Noticed General - include information requested in Section B.  
☐ Standard General (Single Family Dwelling) - include information requested in Sections C and D.  
☒ Standard General (all other Standard General projects) - include information requested in Sections C and E.  
☐ Individual (Single Family Dwelling) - include information requested in Sections C and D.  
☐ Individual (all other Individual projects) - include information requested in Sections C and E.  
☐ Conceptual - include information requested in Sections C and E.  
☐ Mitigation Bank Permit (construction) - include information requested in Sections C and F. (If the proposed mitigation bank involves the construction of a surface water management system requiring another permit defined above, check the appropriate box and submit the information requested by the applicable section.)  
☐ Mitigation Bank (conceptual) - include information requested in Sections C and F.

B. Type of activity for which you are applying (check at least one)

- ☒ Construction or operation of a new system, other than a solid waste facility, including dredging or filling in, on or over wetlands and other surface waters.  
☐ Construction, expansion or modification of a solid waste facility.  
☐ Alteration or operation of an existing system which was not previously permitted by a WMD or DEP.  
☐ Modification of a system previously permitted by a WMD or DEP.  
Provide previous permit numbers: \_\_\_\_\_  
☐ Alteration of a system ☐ Extension of permit duration  
☐ Abandonment of a system ☐ Construction of additional phases of a system  
☐ Removal of a system

C. Are you requesting authorization to use Sovereign Submerged Lands?

☐ yes ☒ no

(See Section G and Attachment 5 for more information before answering this question.)

D. For activities in, on, or over wetlands or other surface waters, check type of federal dredge and fill permit requested:

- ☐ Individual ☐ Programmatic General ☐ General  
☒ Nationwide ☐ Not Applicable

E. Are you claiming to qualify for an exemption? ☐ yes ☒ no

If yes, provide rule number if known. \_\_\_\_\_

RECEIVED

APR 20 2011

FL DEP  
WEST PALM BEACH

<b>PART 3:</b>	
<b>A. OWNER(S) OF LAND</b>	<b>B. ENTITY TO RECEIVE PERMIT (IF OTHER THAN OWNER)</b>
Name	Name
Tony E. Crapp Jr.	Joshua M. Mahoney
Title and Company	Title and Company
City Manager, City of Miami	Biologist II, Miami-Dade County Department of Environmental Resources Management
Address	Address
444 SW 2 <sup>nd</sup> Avenue, 2 <sup>nd</sup> Floor	701 NW 1 Court, 5 <sup>th</sup> Floor
City, State, Zip	City, State, Zip
Miami, FL 33130	Miami, FL, 33136
Telephone and Fax	Telephone and Fax
305-250-5400/305-250-5410	305-372-6922
E-mail Address: (optional) tcrapp@miamigov.com	E-mail Address: (optional) mahonj@miamidade.gov
<b>C. AGENT AUTHORIZED TO SECURE PERMIT</b>	<b>D. CONSULTANT (IF DIFFERENT FROM AGENT)</b>
Name	Name
Joshua M. Mahoney	NA
Title and Company	Title and Company
Biologist II, Miami-Dade County Department of Environmental Resources Management	NA
Address	Address
701 NW 1 Court, 5 <sup>th</sup> Floor	NA
City, State, Zip	City, State, Zip
Miami, FL, 33136	NA
Telephone and Fax	Telephone and Fax
305-372-6922	NA
E-mail Address: (optional) mahonj@miamidade.gov	E-mail Address: (optional) NA

**PART 4: (Please provide metric equivalent for federally funded projects):**

- A. Name of Project, including phase if applicable: Miami Marine Stadium Park Shoreline Stabilization
- B. Is this application for part of a multi-phase project? ☐ Yes ☒ No
- C. Total applicant-owned area contiguous to the project? 1,047 ac.; 423.7 ha.
- D. Total area served by the system: NA ac.; \_\_\_\_\_ ha.
- E. Impervious area for which a permit is sought: NA ac.; \_\_\_\_\_ ha.
- F. Volume of water that the system is capable of impounding: NA ac. ft.; \_\_\_\_\_ m<sup>3</sup>
- G. What is the total area of work in, on, or over wetlands or other surface waters?  
0.57 ac.; 0.23 ha.; 24,829.20 sq. ft.; 2,306.7 sq. m.
- H. Total volume of material to be dredged: NA yd<sup>3</sup>; \_\_\_\_\_ m<sup>3</sup>
- I. Number of new boat slips proposed: NA wet slips; NA dry slips

PART 5:

Project location (use additional sheets if needed):

County(ies) Miami-Dade County

Section(s) 17 Township 54S Range 42E

Section(s) 18 Township 54S Range 42E

Section(s) Township Range

Land Grant name, if applicable: NA

Tax Parcel Identification Number: 01-4217-000-0010

Street Address, Road, or other location: Located east of the William Powell Bridge and north of the Rickenbacker Causeway

City, Zip Code, if applicable: Miami, FL

PART 6: Describe in general terms the proposed project, system, or activity.

The proposed project consists of the stabilizing of shorelines along the eroding portions of the north Marine Stadium Basin shoreline (1,400 linear feet) and along the eroding portions of the 0.6 acre spoil island (450 linear feet) located at the mouth of the basin. The unconsolidated shorelines will be stabilized utilizing natural limerock boulders underlain with filter fabric. The proposed project has been designed around existing natural resources; therefore, no natural resources will be impacted as a result of the proposed shoreline enhancements.

**PART 7:**

A. If there have been any pre-application meetings, including on-site meetings, with regulatory staff, please list the date(s), location(s), and names of key staff and project representatives.

NA

B. Please identify by number any MSSW/Wetland Resource/ERP/ACOE Permits pending, issued or denied for projects at the location, and any related enforcement actions.

Agency	Date	No.\Type of Application	Action Taken
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

C. Note: The following information is required for projects proposed to occur in, on or over wetlands that need a federal dredge and fill permit or an authorization to use state owned submerged lands. Please provide the names, addresses and zip codes of property owners whose property directly adjoins the project (excluding application) and/or (for proprietary authorizations) is located within a 500 ft. radius of the applicant's land. Please attach a plan view showing the owner's names and adjoining property lines. Attach additional sheets if necessary.

- |           |    |
|-----------|----|
| 1.        | 2. |
| <u>NA</u> |    |
| 3.        | 4. |
| 5.        | 6. |
| 7.        | 8. |

PART 8:

A. By signing this application form, I am applying, or I am applying on behalf of the applicant, for the permit and any proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application and represent that such information is true, complete and accurate. I understand this is an application and not a permit, and that work prior to approval is a violation. I understand that this application and any permit issued or proprietary authorization issued pursuant thereto, does not relieve me of any obligation for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree, or I agree on behalf of the applicant, to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a responsible operation entity. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

Joshua M. Mahoney

Typed/Printed Name of Applicant (If no Agent is used) or Agent (If one is so authorized below)

  
Signature of Applicant/Agent

3/24/2011  
Date

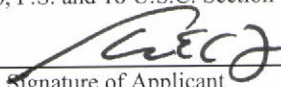
Biologist II, Miami-Dade County Department of Environmental Resources Management  
(Corporate Title if applicable)

**AN AGENT MAY SIGN ABOVE ONLY IF THE APPLICANT COMPLETES THE FOLLOWING:**

B. I hereby designate and authorize the agent listed above to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above; and to furnish, on request, supplemental information in support of the application. In addition, I authorize the above-listed agent to bind me, or my corporation, to perform any requirements which may be necessary to procure the permit or authorization indicated above. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

Tony E. Crapp Jr.

Typed/Printed Name of Applicant

  
Signature of Applicant

4/4/11  
Date

City Manager, City of Miami  
(Corporate Title if applicable)

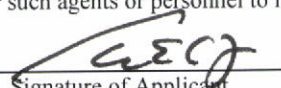
**Please note: The applicant's original signature (not a copy) is required above.**

**PERSON AUTHORIZING ACCESS TO THE PROPERTY MUST COMPLETE THE FOLLOWING:**

C. I either own the property described in this application or I have legal authority to allow access to the property, and I consent, after receiving prior notification, to any site visit on the property by agents or personnel from the Department of Environmental Protection, the Water Management District and the U.S. Army Corps of Engineers necessary for the review and inspection of the proposed project specified in this application. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review and inspection. Further, I agree to provide entry to the project site for such agents or personnel to monitor permitted work if a permit is granted.

Tony E. Crapp Jr.

Typed/Printed Name of Applicant

  
Signature of Applicant

4/4/11  
Date

City Manager, City of Miami  
(Corporate Title if applicable)

## SECTION C

### Environmental Resource Permit Notice of Receipt of Application

Note: this form does not need to be submitted for noticed general permits.

This information is required in addition to that required in other sections of the application. Please submit five copies of this notice of receipt of application and all attachments with the other required information. Please submit all information on 8 1/2" x 11" paper.

Project Name                      Miami Marine Stadium Shoreline Stabilization  
County                              Miami-Dade County  
Owner                                City of Miami  
Applicant:                          Tony E. Crapp Jr., City Manager  
Applicant's Address:              444 SW 2<sup>nd</sup> Avenue, 2<sup>nd</sup> Floor, Miami, FL 33130

1. Indicate the project boundaries on a USGS quadrangle map. Attach a location map showing the boundary of the proposed activity. The map should also contain a north arrow and a graphic scale; show Section(s), Township(s), and Range(s); and must be of sufficient detail to allow a person unfamiliar with the site to find it.

**Please see Attachment B – Permit Sketches**

2. Provide the names of all wetlands, or other surface waters that would be dredged, filled, impounded, diverted, drained, or would receive discharge (either directly or indirectly), or would otherwise be impacted by the proposed activity, and specify if they are in an Outstanding Florida Water or Aquatic Preserve:

**Biscayne Bay, Biscayne Bay Aquatic Preserve**

3. Attach a depiction (plan and section views), which clearly shows the works or other facilities proposed to be constructed. Use multiple sheets, if necessary. Use a scale sufficient to show the location and type of works.

**Please see Attachment B – Permit Sketches**

4. Briefly describe the proposed project (such as "construct dock with boat shelter", "replace two existing culverts", "construct surface water management system to serve 150 acre residential development"):

**The proposed project consists of the stabilizing of shorelines along the eroding portions of the north Marine Stadium Basin shoreline (1,400 linear feet) and along the eroding portions of the 0.6 acre spoil island (450 linear feet) located at the mouth of the basin. The unconsolidated shorelines will be stabilized utilizing natural limerock boulders underlain with filter fabric. The proposed project has been designed around existing natural resources; therefore, no natural resources will be impacted as a result of the proposed shoreline enhancements.**

5. Specify the acreage of wetlands or other surface waters, if any, that are proposed to be filled, excavated, or otherwise disturbed or impacted by the proposed activity:

filled 0.57 ac.; 0 excavated ac.;

other impacts 0 ac.

6. Provide a brief statement describing any proposed mitigation for impacts to wetlands and other surface waters (attach additional sheets if necessary):

## SECTION E

### INFORMATION REQUESTED FOR STANDARD GENERAL, INDIVIDUAL AND CONCEPTUAL ENVIRONMENTAL RESOURCE PERMIT APPLICATIONS NOT RELATED TO A SINGLE FAMILY DWELLING UNIT

Please provide the information requested below if the proposed project requires either a standard general, individual, or conceptual approval environmental resource permit and is not related to an individual, single family dwelling unit, duplex or quadruplex. The information listed below represents the level of information that is usually required to evaluate an application. The level of information required for a specific project will vary depending on the nature and location of the site and the activity proposed. Conceptual approvals generally do not require the same level of detail as a construction permit. However, providing a greater level of detail will reduce the need to submit additional information at a later date. If an item does not apply to your project, proceed to the next item. Please submit all information that is required by the Department on either 8 1/2 in. X 11 in. paper or 11 in. X 17 in. paper. Larger drawings may be submitted to supplement but not replace these smaller drawings.

#### I. Site Information

- A. Provide a map(s) of the project area and vicinity delineating USDA/SCS soil types.

**Please See Attachment A – Soil Map**

- B. Provide recent aerials, legible for photo interpretation with a scale of 1" = 400 ft, or more detailed, with project boundaries delineated on the aerial.

**Please see Attachment B – Permit Drawings**

- C. Identify the seasonal high water or mean high tide elevation and normal pool or mean low tide elevation for each on site wetland or surface water, including receiving waters into which runoff will be discharged. Include dates, datum, and methods used to determine these elevations.

**Please see Attachment B – Permit Drawings**

- D. Identify the wet season high water tables at the locations representative of the entire project site. Include dates, datum, and methods used to determine these elevations.

**NA**

#### II. Environmental Considerations

- A. Provide results of any wildlife surveys that have been conducted on the site, and provide any comments pertaining to the project from the Florida Game and Fresh Water Fish Commission and the U.S. Fish and Wildlife Service.

**Impacts to federal or state listed species are not anticipated during this project. The proposed project will be monitored by a qualified biologist.**

- B. Provide a description of how water quantity, quality, hydroperiod, and habitat will be maintained in on-site wetlands and other surface waters that will be preserved or will remain undisturbed.

**Turbidity curtains, silt fence and/or other erosion control devices will be utilized to promote best management practices. A biologist will supervise the construction crew in order to avoid impacts to native vegetation. Supplemental planting of native vegetation will occur at the top of the slope. A maintenance and monitoring plan will be utilized to suppress all exotic/nuisance species and**

**document the survivorship of planted material as well as native recruitment. The maintenance and monitoring will occur semiannually the first year and annually for four years following.**

- C. Provide a narrative description of any proposed mitigation plans, including purpose, maintenance, monitoring, and construction sequence and techniques, and estimated costs.

**Not Applicable (NA), as this project is an environmental restoration project and no net loss of wetlands will result from this project.**

- D. Describe how boundaries of wetlands or other surface waters were determined. If there has ever been a jurisdictional declaratory statement, a formal wetland determination, a formal determination, a validated informal determination, or a revalidated jurisdictional determination, provide the identifying number.

**The boundaries of the wetlands are located at the lower end of the slope into water body. The methodologies outlined in Chapter 62.340, F.A.C. were used to delineate the boundaries of the wetlands. Due to the severity of erosion along these deposited spoil shorelines, the existing condition of the slopes precludes the establishment of wetland plants.**

- E. Impact Summary Tables:

1. For all projects, complete Tables 1, 2 and 3 as applicable.

**NA**

2. For docking facilities or other structures constructed over wetlands or other surface waters, provide the information requested in Table 4.

**NA**

3. For shoreline stabilization projects, provide the information requested in Table 5.

**NA**

### **III. Plans**

Provide clear, detailed plans for the system including specifications, plan (overhead) views, cross sections (with the locations of the cross sections shown on the corresponding plan view), and profile (longitudinal) views of the proposed project. The plans must be signed and sealed by an appropriate registered professional as required by law. Plans must include a scale and a north arrow. These plans should show the following:

- A. Project area boundary and total land area, including distances and orientation from roads or other land marks;

**Please see Attachment B – Permit Drawings**

- B. Existing land use and land cover (acreage and percentages), and on-site natural communities, including wetlands and other surface waters, aquatic communities, and uplands. Use the Florida Land Use Cover & Classification System (FLUCCS)(Level 3) for projects proposed in the South Florida Water Management District, the St. Johns River Water Management District, and the Suwannee River Water Management District and use the National Wetlands Inventory (NWI) for projects proposed in the Southwest Florida Water Management District. Also identify each community with a unique identification number which must be consistent in all exhibits.

**Please see Attachment D – FLUCCS Map**

- C. The existing topography extending at least 100 feet off the project area, and including adjacent wetlands and other surface waters. All topography shall include the location and a description of known benchmarks, referenced to NGVD. For systems waterward of the mean high water (MHW) or seasonal high water lines, show water depths, referenced to mean low water (MLW) in tidal areas or seasonal low water in non-tidal areas, and list the range between MHW and MLW. For docking facilities, indicate the distance to, location of, and depths of the nearest navigational channel and access routes to the channel.

**Please see Attachment B – Permit Drawings**

- D. If the project is in the known flood plain of a stream or other water course, identify the following: 1) the flood plain boundary and approximate flooding elevations; and 2) the 100-year flood elevation and floodplain boundary of any lake, stream or other watercourse located on or adjacent to the site;

NA

- E. The boundaries of wetlands and other surface waters within the project area. Distinguish those wetlands and other surface waters that have been delineated by any binding jurisdictional determination;

**Please see Attachment B – Permit Drawings**

- F. Proposed land use, land cover and natural communities (acreage and percentages), including wetlands and other surface waters, undisturbed uplands, aquatic communities, impervious surfaces, and water management areas. Use the same classification system and community identification number used in III (B) above.

**Please see Attachment D – FLUCCS Map**

- G. Proposed impacts to wetlands and other surface waters, and any proposed connections/outfalls to other surface waters or wetlands;

**The project will not impact any existing wetlands.**

- H. Proposed buffer zones;

NA

- I. Pre- and post-development drainage patterns and basin boundaries showing the direction of flows, including any off-site runoff being routed through or around the system; and connections between wetlands and other surface waters;

NA

- J. Location of all water management areas with details of size, side slopes, and designed water depths;

**Please see Attachment B – Permit Drawings**

- K. Location and details of all water control structures, control elevations, any seasonal water level regulation schedules; and the location and description of benchmarks (minimum of one benchmark per structure);

NA

- L. Location, dimensions and elevations of all proposed structures, including docks, seawalls, utility lines, roads, and buildings;

**Please see Attachment B – Permit Drawings**

- M. Location, size, and design capacity of the internal water management facilities;  
NA
- N. Rights-of-way and easements for the system, including all on-site and off-site areas to be reserved for water management purposes, and rights-of-way and easements for the existing drainage system, if any;  
NA
- O. Receiving waters or surface water management systems into which runoff from the developed site will be discharged;  
NA
- P. Location and details of the erosion, sediment and turbidity control measures to be implemented during each phase of construction and all permanent control measures to be implemented in post-development conditions;  
**Best Management Practices will be utilized before and after all construction.**
- Q. Location, grading, design water levels, and planting details of all mitigation areas;  
NA
- R. Site grading details, including perimeter site grading;  
NA
- S. Disposal site for any excavated material, including temporary and permanent disposal sites;  
NA
- T. Dewatering plan details;  
NA
- U. For marina facilities, locations of any sewage pumpout facilities, fueling facilities, boat repair and maintenance facilities, and fish cleaning stations;  
NA
- V. Location and description of any nearby existing offsite features which might be affected by the proposed construction or development such as stormwater management ponds, buildings or other structures, wetlands or other surface waters.  
NA
- W. For phased projects, provide a master development plan.  
NA

**IV. Construction Schedule and Techniques**

Provide a construction schedule, and a description of construction techniques, sequencing and equipment. This information should specifically include the following:

- A. Method for installing any pilings or seawall slabs;

NA

- B. Schedule of implementation of temporary or permanent erosion and turbidity control measures;

**Erosion and turbidity control measures will be installed prior to the initiation of construction and will remain in place until completion of the project.**

- C. For projects that involve dredging or excavation in wetlands or other surface waters, describe the method of excavation, and the type of material to be excavated;

NA

- D. For projects that involve fill in wetlands or other surface waters, describe the source and type of fill material to be used. For shoreline stabilization projects that involve the installation of riprap, state how these materials are to be placed, (i.e., individually or with heavy equipment) and whether the rocks will be underlain with filter cloth;

**The shoreline will be stabilized with natural limerock boulders and native vegetation. Appropriate equipment will be utilized to place the boulders along the shoreline. The boulders will be underlain with filter fabric.**

- E. If dewatering is required, detail the dewatering proposal including the methods that are proposed to contain the discharge, methods of isolating dewatering areas, and indicate the period dewatering structures will be in place (Note: a consumptive use or water use permit may be required);

NA

- F. Methods for transporting equipment and materials to and from the work site. If barges are required for access, provide the low water depths and draft of the fully loaded barge;

**Overall, the project will be constructed from the upland utilizing heavy equipment. All construction materials will be delivered to the site from existing upland access roads. A barge will be utilized to transport equipment and materials to the 0.6 acre spoil island.**

- G. Demolition plan for any existing structures to be removed; and

NA

- H. Identify the schedule and party responsible for completing monitoring, record drawings, and as-built certifications for the project when completed.

**It is anticipated that the construction period will be 180-days. Miami-Dade County contractors will be responsible for completing the monitoring, record drawing, and as-built certifications.**

**V. Drainage Information**

- A. Provide pre-development and post-development drainage calculations, signed and sealed by an appropriate registered professional, as follows:

1. Runoff characteristics, including area, runoff curve number or runoff coefficient, and time of concentration for each drainage basin;

NA

2. Water table elevations (normal and seasonal high) including aerial extent and magnitude of any proposed water table draw down;

NA

3. Receiving water elevations (normal, wet season, design storm);  
NA

4. Design storms used including rainfall depth, duration, frequency, and distribution;

NA

5. Runoff hydrograph(s) for each drainage basin, for all required design storm event(s);

NA

6. Stage-storage computations for any area such as a reservoir, close basin, detention area, or channel, used in storage routing;

NA

7. Stage-discharge computations for any storage areas at a selected control point, such as control structure or natural restriction;

NA

8. Flood routings through on-site conveyance and storage areas;

NA

9. Water surface profiles in the primary drainage system for each required design storm event(s);

NA

10. Runoff peak rates and volumes discharged from the system for each required design storm event(s);

NA

11. Tail water history and justification (time and elevation); and

NA

12. Pump specifications and operating curves for range of possible operating conditions (if used in system).

NA

- B. Provide the results of any percolation tests, where appropriate, and soil borings that are representative of the actual site conditions;

NA

C. Provide the acreage, and percentages of the total project, of the following:

1. Impervious surfaces, excluding wetlands;  
**NA**
2. Pervious surfaces (green areas, not including wetlands);  
**0.69 acres/54%**
3. Lakes, canals, retention areas, other open water areas; and  
**0.57/45%**
4. Wetlands.  
**NA**

D. Provide an engineering analysis of floodplain storage and conveyance (if applicable), including:

1. Hydraulic calculations for all proposed traversing works;  
**NA**
2. Backwater water surface profiles showing upstream impact of traversing works;  
**NA**
3. Location and volume of encroachment within regulated floodplain(s); and  
**NA**
4. Plan for compensating floodplain storage, if necessary, and calculations required for determining minimum building and road flood elevations.  
**NA**

E. Provide an analysis of the water quality treatment system including:

1. A description of the proposed stormwater treatment methodology that addresses the type of treatment, pollution abatement volumes, and recovery analysis; and  
**NA**
5. Construction plans and calculations that address stage-storage and design elevations, which demonstrate compliance with the appropriate water quality treatment criteria.  
**NA**

F. Provide a description of the engineering methodology, assumptions and references for the parameters listed above, and a copy of all such computations, engineering plans, and specifications used to analyze the system. If a computer program is used for the analysis, provide the name of the program, a description of the program, input and output data, two diskette copies, if available, and justification for model selection.

**NA**

VI. Operation and Maintenance and Legal Documentation

- A. Describe the overall maintenance and operation schedule for the proposed system.
- B. Identify the entity that will be responsible for operating and maintaining the system in perpetuity if different than the permittee, a draft document enumerating the enforceable affirmative obligations on the entity to properly operate and maintain the system for its expected life, and documentation of the entity's financial responsibility for long-term maintenance. If the proposed operation and maintenance entity is not a property owner's association, provide proof of the existence of an entity, or the future acceptance of the system by an entity which will operate and maintain the system. If a property owner's association is the proposed operation and maintenance entity, provide copies of the articles of incorporation for the association and copies of the declaration, restrictive covenants, deed restrictions, or other operational documents that assign responsibility for the operation and maintenance of the system. Provide information ensuring the continued adequate access to the system for maintenance purposes. Before transfer of the system to the operating entity will be approved, the permittee must document that the transferee will be bound by all terms and conditions of the permit.

**Miami-Dade County will maintain the shoreline.**

- C. Provide copies of all proposed conservation easements, storm water management system easements, property owner's association documents, and plats for the property containing the proposed system.
- NA
- D. Provide indication of how water and waste water service will be supplied. Letters of commitment from off-site suppliers must be included.
- NA
- E. Provide a copy of the boundary survey and/or legal description and acreage of the total land area of contiguous property owned/controlled by the applicant.

**Please see Attachment C**

## **VII. Water Use**

- A. Will the surface water system be used for water supply, including landscape irrigation, or recreation.

**Recreation**

- B. If a Consumptive Use or Water Use permit has been issued for the project, state the permit number.

NA

- C. If no Consumptive Use or Water Use permit has been issued for the project, indicate if such a permit will be required and when the application for a permit will be submitted.

NA

- D. Indicate how any existing wells located within the project site will be utilized or abandoned.

NA







TABLE 4  
DOCKING FACILITY SUMMARY

DOCKING FACILITY SUMMARY							
Type of Structure*	Type of Work**	Number of Identical Docks	Length (feet)	Width (feet)	Height (feet)	Total square feet over water	Number of slips
*Dock, Pier, Finger Pier, or other structure (please specify what type)  **New, Replaced, Existing (unaltered), Removed, or Altered/Modified				TOTALS:		Existing	Proposed
				Number of Slips			
				Square Feet over the water			

Use of Structure:

Will the docking facility provide:

Live-aboard Slips? If yes, Number:

Fueling Facilities: If yes, Number

Sewage Pump-out Facilities? If yes, Number:

Other Supplies or Services Required for Boating (excluding refreshments, bait and tackle)

☐ Yes ☐ No

Type of Materials for Decking and Pilings (i.e., CCA, pressure treated wood, plastic, or concrete)

## Pilings

## Decking

Proposed Dock-Plank Spacing (if applicable)

Proposed Size (length and draft), Type, and Number of Boats Expected to Use or Proposed to be Mooring at the facility)

Table 5: SHORELINE STABILIZATION  
 IF YOU ARE CONSTRUCTING A SHORELINE STABILIZATION PROJECT, PLEASE PROVIDE THE  
 FOLLOWING:

Type of Stabilization Being Done	Length (in feet) of New	Length (in feet) of Replaced	Length (in feet) of Repaired	Length (in feet) of Removed	Slope: H: V:	Width of the Toe (in feet)
Vertical Seawall						
Seawall plus Rip-Rap						
Rip-Rap	1,850	0	0	0	2:1	Refer to plans
Rip-Rap plus Vegetation						
Other Type of Stabilization Being Done:						

Size of the Rip Rap: 1' – 3' diameter

Type of Rip Rap: Natural limerock boulders underlain with filter fabric.

COMMENTS:

## SECTION G

### Application for Authorization to Use Sovereign Submerged Lands

**Part 1:** Sovereign Submerged Lands title information (see Attachment 5 for an explanation). Please read and answer the applicable questions listed below:

- A. I have a sovereign submerged lands title determination from the Division of State Lands which indicates that the proposed project is NOT ON sovereign submerged lands (Please attach a copy of the title determination to the application). Yes ☐ No ☒
- If you answered Yes to Question A and you have attached a copy of the Division of State Lands Title Determination to this application, you do not have to answer any other questions under Part I or II of Section G.
- B. I have a sovereign submerged lands title determination from the Division of State Lands which indicates that the proposed project is ON sovereign submerged lands (Please attach a copy of the title determination to the application). Yes ☐ No ☒
- If you answered yes to question B please provide the information requested in Part II. Your application will be deemed incomplete until the requested information is submitted.
- C. I am not sure if the proposed project is on sovereign submerged lands (please check here). ☒
- If you have checked this box department staff will request that the Division of State Lands conduct a title determination. If the title determination indicates that the proposed project or portions of the project are located on sovereign submerged lands you will be required to submit the information requested in Part II of this application. The application will be deemed incomplete until the requested information is submitted.
- D. I am not sure if the proposed project is on sovereign submerged lands and I DO NOT WISH to contest the Department's findings (please check here). ☐
- If you have checked this box refer to Part II of this application and provide the requested information. The application will be deemed incomplete until the requested information is submitted.
- E. It is my position that the proposed project is NOT on sovereign submerged lands (please check here) ☒
- If you have evidence that indicates that the proposed project is not on sovereign submerged lands please attach the documentation to the application. If the Division of State Lands title determination indicates that your proposed project or portion of your proposed project are on sovereign submerged lands you will be required to provide the information requested in Part II of this application.
- F. If you wish to contest the findings of the title determination conducted by the Division of State Lands please contact the Department of Environmental Protection's Office of General Counsel. Your proposed project will be deemed incomplete until either the information requested in Part II is submitted or a legal ruling indicates that the proposed project is not on sovereign submerged lands.

**Part II:** If you were referred to this section by Part I, please provide this additional information. Please note that if your proposed project is on sovereign submerged lands and the below requested information is not provided, your application will be considered incomplete.

- A. Provide evidence of title to the subject riparian upland property in the form of a recorded deed, title insurance, legal opinion of title, or a long-term lease which specifically includes riparian rights. Evidence submitted must demonstrate that the application has sufficient title interest in the riparian upland property.
- B. Provide a detailed statement describing the existing and proposed upland uses and activities. For commercial uses, indicate the specific type of activity, such as marina, ship repair, dry storage (including the number of storage spaces), commercial fishing/seafood processing, fish camp, hotel, motel resort restaurant, office complex, manufacturing operation, etc.
- For rental operations, such as trailer or recreational vehicle parks and apartment complexes, indicate the number of wet slip units/spaces available for rent or lease and describe operational details (e.g., are spaces rented on a month-to-month basis or through annual leases).
- For multi-family residential developments, such as condominiums, townhomes, or subdivisions, provide the number of living units/lots and indicate whether or not the common property (including the riparian upland property) is or will be under the control of a homeowners association.
- For projects sponsored by a local government, indicate whether or not the facilities will be open to the general public. Provide a breakdown of any fees that will be assessed, and indicate whether or not such fees will generate revenue or will simply cover costs associated with maintaining the facilities.
- C. Provide a detailed statement describing the existing and proposed activities located on or over the sovereign submerged lands at the project site. This statement must include a description of docks and piers, types of vessels (e.g., commercial fishing, liveaboards, cruise ships, tour boats), length and draft of vessels, sewage pumped facilities, fueling facilities, boat hoists, boat ramps, travel lifts, railways, and any other structure or activities existing or proposed to be located waterward of the mean/ordinary high water line.
- If slips are existing and/or proposed, please indicate the number of powerboat slips and sailboat slips and the percentage of those slips available to the general public on a "first come, first served" basis. This statement must include a description of channels, borrow sites, bridges, groins, jetties, pipelines, or other utility crossings, and any other structures or activities existing or proposed to be located waterward of the mean/ordinary high water line. For shoreline stabilization activities, this statement must include a description of seawalls, bulkheads, riprap, filling activities, and any other structure or activities existing or proposed to be located along the shoreline.
- D. Provide the linear footage of shoreline at the mean/ordinary high water line owned by the application which borders sovereign submerged lands.
- E. Provide a recent aerial photo of the area. A scale of 1"=200' is preferred. Photos are generally available at minimal cost from your local government property appraiser's office or from district Department of Transportation offices. Indicate on the photo the specific location of your property/project site.

### PROPRIETARY PROJECT DESCRIPTIONS

Please check the most applicable activity which applies to your project(s):

#### Leases

- ☐ Commercial marinas (renting wet slips) including condos, etc., if 50% or more of their wet slips are available to the general public
- ☒ Public/Local governments
- ☐ Yacht Clubs/Country Clubs (when a membership is required)
- ☐ Condominiums (requires upland ownership)
- ☐ Commercial Uplands Activity (temporary docking and/or fishing pier associated with upland revenue generating activities, i.e., restaurants, hotels, motels) for use of the customer at not charge
- ☐ Miscellaneous Commercial Upland Enterprises where there is a charge associated with the use of overwater structure (Charter Boats, Tour Boats, Fishing Piers)
- ☐ Ship Building/Boat Repair Service Facilities
- ☐ Commercial Fishing Related (Offloading, Seafood Processing)
- ☐ Private Single-family Residential Docking Facilities; Townhome Docking Facilities; Subdivision Docking Facilities (upland lots privately owned)

#### Public Easements and Use Agreements

- ☒ Miscellaneous Public Easements and Use Agreements
- ☐ Bridge Right-of-way (DOT, local government)
- ☐ Breakwater of groin
- ☐ Subaqueous Utility Cable (TV, telephone, electrical)
- ☐ Subaqueous Outfall or Intake
- ☐ Subaqueous Utility Water/Sewer
- ☐ Overhead Utility w/Support Structure on Sovereign Submerged Lands
- ☐ Disposal Site for Dredged Material
- ☐ Pipeline (gas)
- ☐ Borrow Site

#### Private Easements

- ☐ Miscellaneous Private Easements
- ☐ Bridge Right-of-way
- ☐ Breakwater Groin
- ☐ Subaqueous Utility Cable (TV, telephone, electrical)
- ☐ Subaqueous Outfall or Intake
- ☐ Subaqueous Utility Water/Sewer
- ☐ Overhead Utility Crossing
- ☐ Disposal Site for Dredged Material
- ☐ Pipeline (gas)

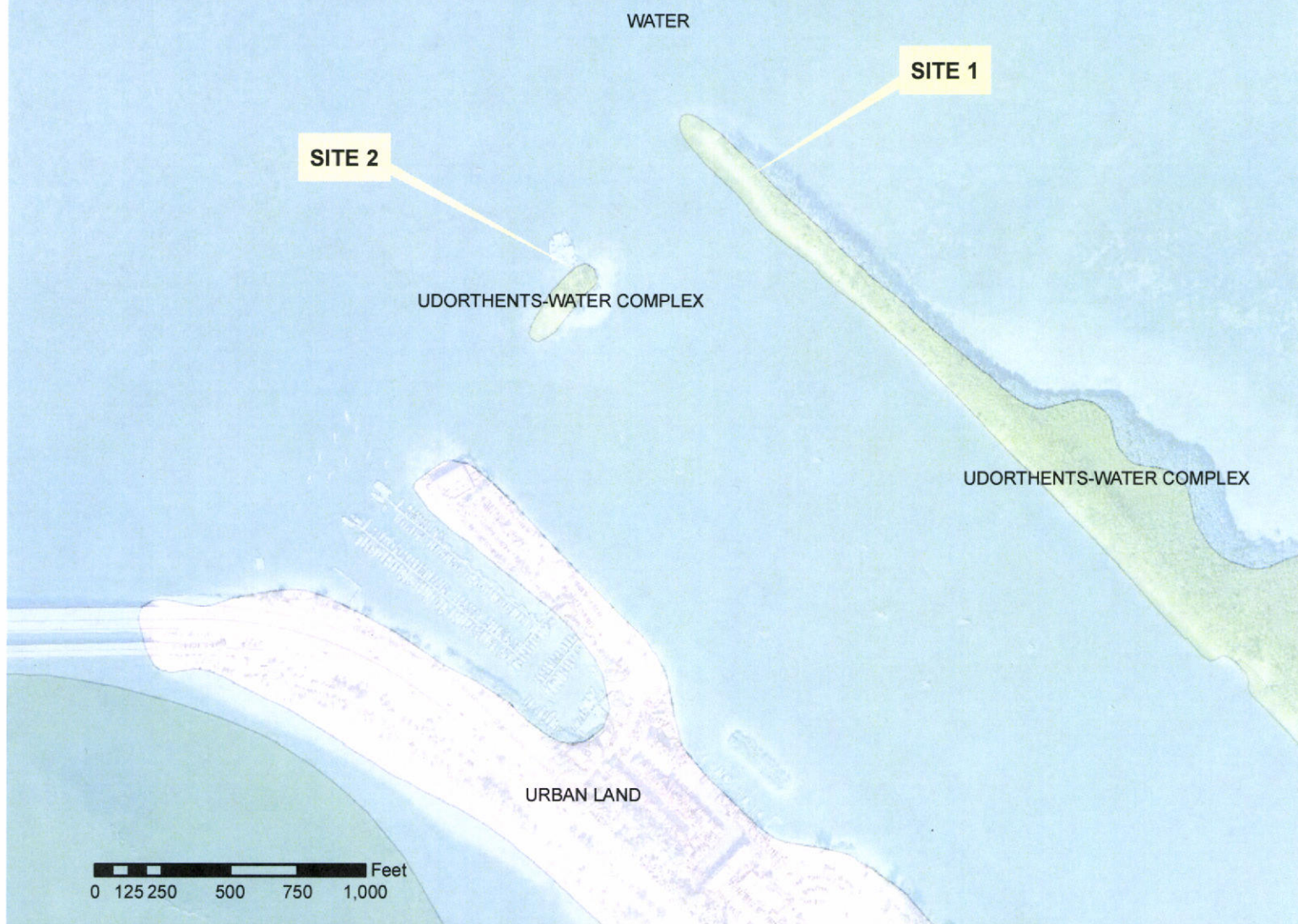
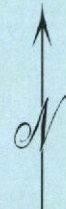
Consents of Use

- ☐ Aerial Utility Crossing w/no support structures on sovereign submerged lands
- ☐ Private Dock
- ☐ Public Dock
- ☐ Multi-family Dock
- ☐ Fishing Pier (private or Multi-family)
- ☐ Private Boat Ramp
- ☐ Sea Wall
- ☐ Dredge
- ☐ Maintenance Dredge
- ☐ Navigation Aids/Markers
- ☐ Artificial Reef
- ☒ Riprap
- ☐ Public Boat Ramp
- ☐ Public Fishing Pier
- ☐ Repair/Replace Existing Public Fishing Pier
- ☐ Repair/Replace Existing Private Dock
- ☐ Repair/Replace Existing Public Dock
- ☐ Repair/Replace Existing Multi-family Dock
- ☐ Repair/Replace Existing Fishing Pier (Private or Multi-family)
- ☐ Repair/Replace Existing Private Boat Ramp
- ☐ Repair/Replace Existing Sea Wall, Revetments, or Bulkheads
- ☐ Repair/Replace/Modify structures/activities within an exiting lease, easement, management agreement or use agreement area or repair/replace existing grandfathered structures
- ☐ Repair/Replace Existing Public Boat Ramp

Miscellaneous

- ☐ Biscayne Bay Letters of Consistency/Inconsistency w/258.397, F.S.
- ☐ Management Agreements - Submerged Lands
- ☐ Reclamation
- ☐ Purchase of Filled, Formerly Submerged Lands
- ☐ Purchase of Reclaimed Lake Bottom
- ☐ Treasure Salvage
- ☐ Insect Control Structures/Swales
- ☐ Miscellaneous projects which do not fall within the activity codes listed above

**Attachment A: Soil Map**



**Attachment B: Permit Sketches**

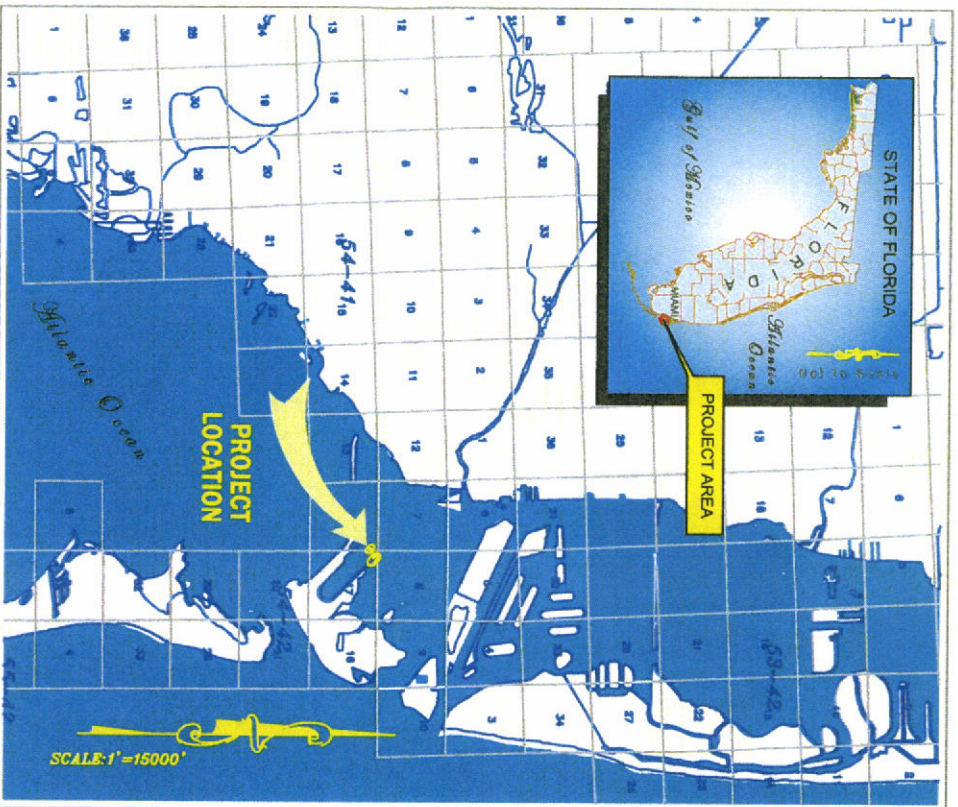
# MIAMI MARINE STADIUM PARK SHORELINE STABILIZATION PROJECT

( Site 1 & 2 )

MIAMI DADE COUNTY

DEPARTMENT OF ENVIRONMENTAL RESOURCES MANAGEMENT ( DERM )

NOT FOR CONSTRUCTION. FOR PERMIT ONLY



LOCATION MAP

SECTIONS: 8, 17, 18 TOWN: 54 RANGE: 42

VICINITY MAP

FOR PERMIT ONLY

- INDEX OF SHEETS
1. VICINITY MAP & INDEX OF DRAWINGS
  2. AERIAL PICTURES OF AREA AND NOTES
  3. MARINE STADIUM FINGER ISLAND, SITE PLAN (SITE 1)
  4. MARINE STADIUM FINGER ISLAND, SITE PLAN (SITE 2)
  5. TYPICAL CROSS SECTION, SITE 1 "A" & "B"
  6. TYPICAL CROSS SECTION, SITE 1 "C" & "D"
  7. TYPICAL CROSS SECTION, SITE 2 "A" & "B"
  8. TYPICAL CROSS SECTION, SITE 2 "C" & "D"

JUAN A. CURIEL  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
( NOT FOR CONSTRUCTION )

JOB: VICINITY MAP & INDEX OF DRAWINGS  
DATE: 02-11  
BY: J.M.C. SHEET: 1 OF 8

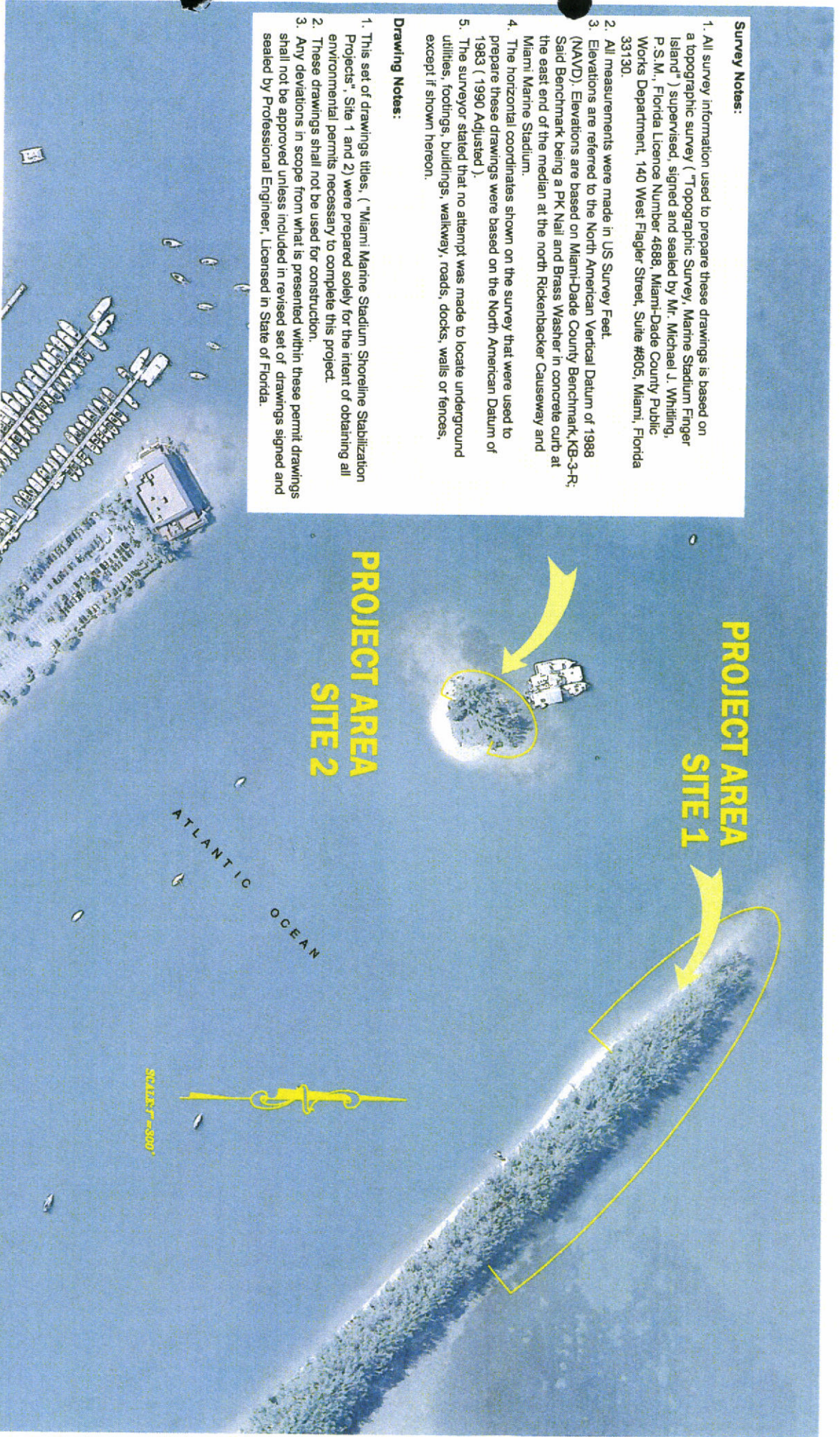
# MARINE STADIUM FINGER ISLANDS

## Survey Notes:

1. All survey information used to prepare these drawings is based on a topographic survey ( "Topographic Survey, Marine Stadium Finger Island" ) supervised, signed and sealed by Mr. Michael J. Whiting, P.S.M., Florida Licence Number 4688, Miami-Dade County Public Works Department, 140 West Flagler Street, Suite #805, Miami, Florida 33130.
2. All measurements were made in US Survey Feet.
3. Elevations are referred to the North American Vertical Datum of 1988 (NAVD). Elevations are based on Miami-Dade County Benchmark, KB-3-R, Said Benchmark being a PK Nail and Brass Washer in concrete curb at the east end of the median at the north Rickenbacker Causeway and Miami Marine Stadium.
4. The horizontal coordinates shown on the survey that were used to prepare these drawings were based on the North American Datum of 1983 ( 1990 Adjusted ).
5. The surveyor stated that no attempt was made to locate underground utilities, footings, buildings, walkway, roads, docks, walls or fences, except if shown hereon.

## Drawing Notes:

1. This set of drawings titles, ( "Miami Marine Stadium Shoreline Stabilization Projects", Site 1 and 2 ) were prepared solely for the intent of obtaining all environmental permits necessary to complete this project.
2. These drawings shall not be used for construction.
3. Any deviations in scope from what is presented within these permit drawings shall not be approved unless included in revised set of drawings signed and sealed by Professional Engineer, Licensed in State of Florida.



**PROJECT AREA  
SITE 2**

**PROJECT AREA  
SITE 1**

ATLANTIC OCEAN

SCALE: 0'-200'

FOR PERMIT ONLY

JUAN A. CURIEL  
State of Florida Professional Engineer  
License No. 63890

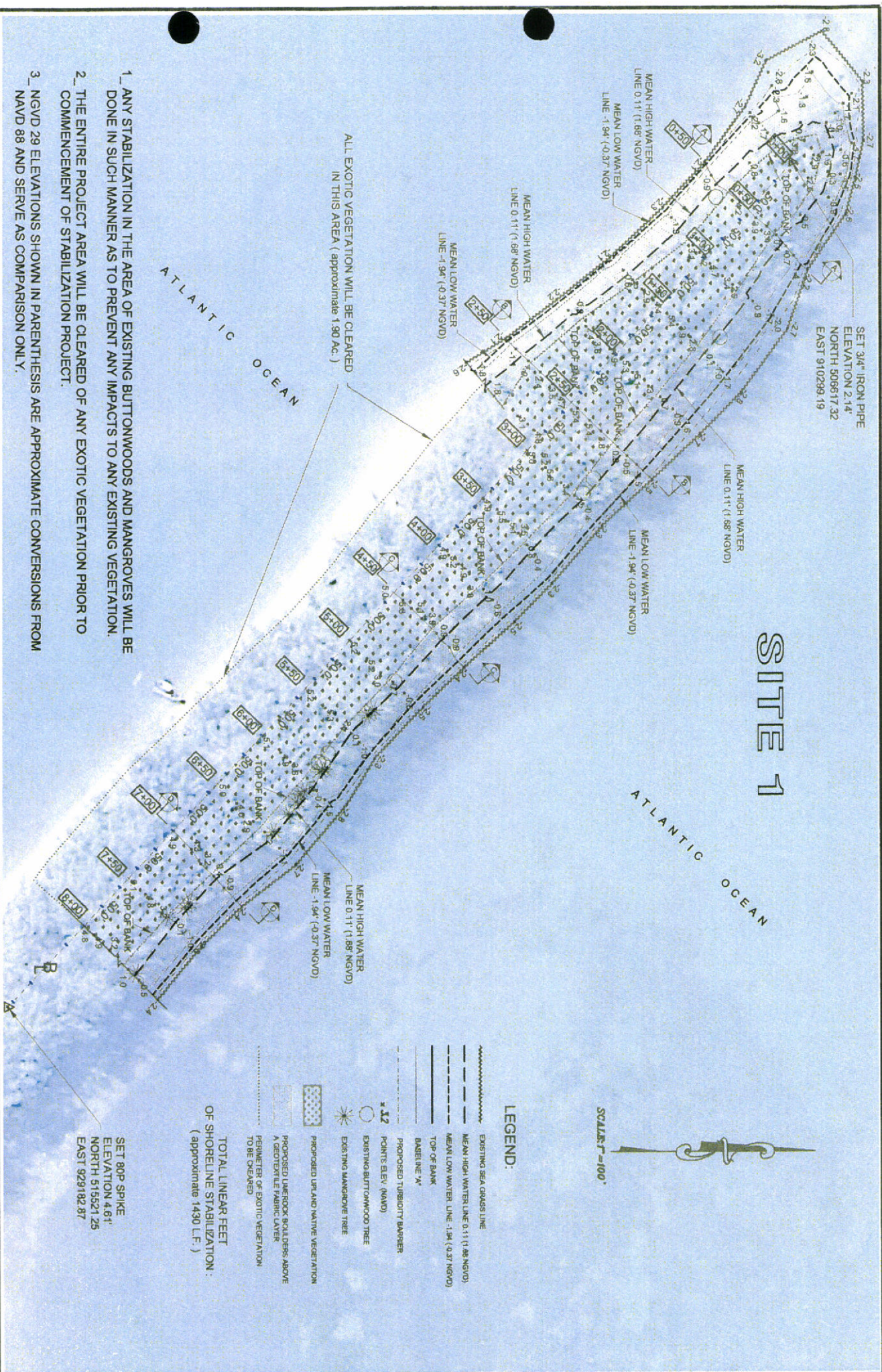
MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
( NOT FOR CONSTRUCTION )

JOB:  
BY: AERIAL PICTURES OF AREA AND NOTES  
J.M.C.

DATE: 02-11  
SHEET: 2 OF 8



1. ANY STABILIZATION IN THE AREA OF EXISTING BUTTWOODS AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
2. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
3. NAVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

FOR PERMIT ONLY

JUAN A. CURIEL  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

JOB: MARINE STADIUM FINGER ISLAND  
SITE PLAN (SITE 1)  
BY: J.M.C.

DATE: 02-11  
SHEET: 3 OF 8



1. ANY STABILIZATION IN THE AREA OF EXISTING BUTTONWOODS AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
2. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
3. NGVD 29 ELEVATIONS SHOWN IN PARENTHESES ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

ALL EXOTIC VEGETATION WILL BE CLEARED  
IN THIS AREA ( approximate 0.3 Ac. )

## NOTES:

FOR PERMIT ONLY

**JUAN A. CURIEL**  
State of Florida Professional Engineer  
License No. 63890

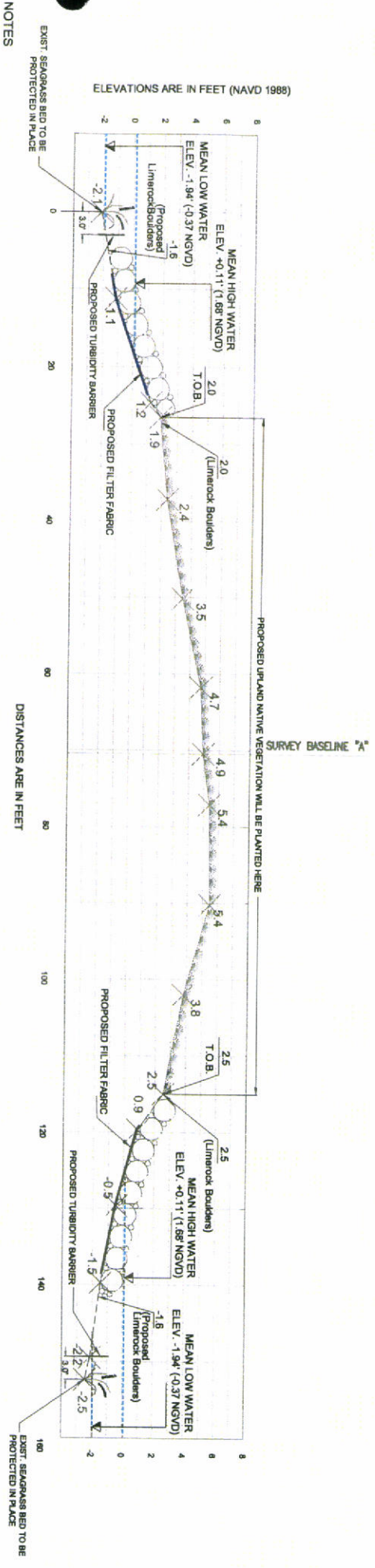
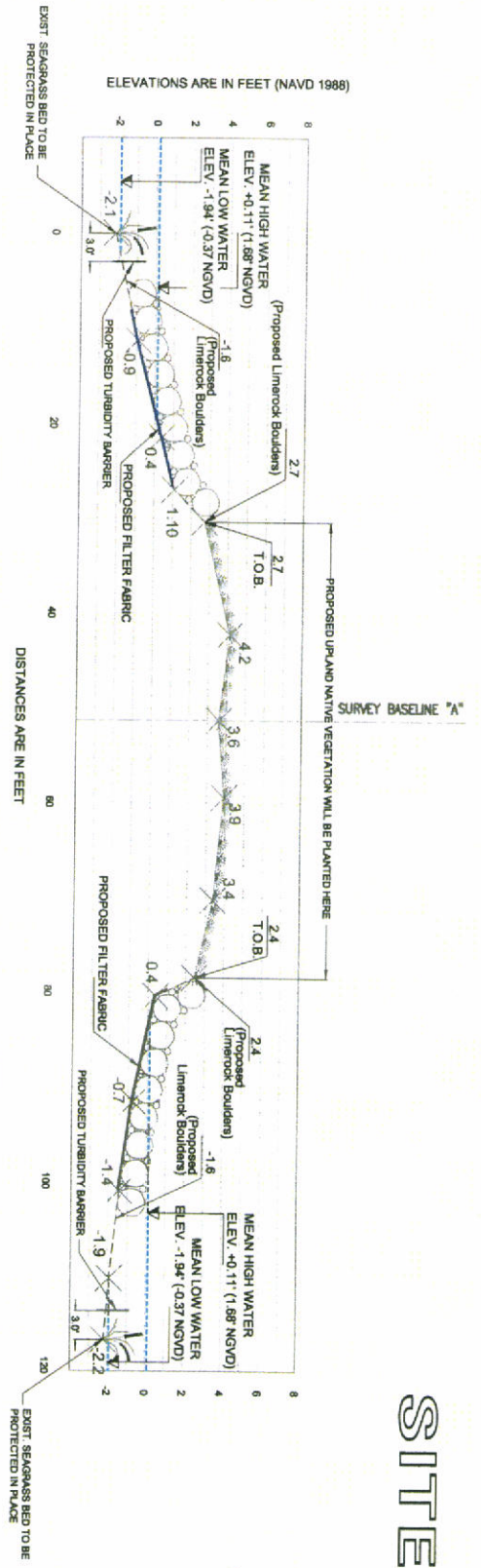
# MIAMI-DADE COUNTY DEPARTMENT OF WATER MANAGEMENT DIVISION

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
( NOT FOR CONSTRUCTION )

**JOB: MARINE STADIUM FINGER ISLAND  
SITE PLAN (SITE 2)**

BY: J.M.C.	SHIFT: 4 OF 8
------------	---------------

# SITE 1



- NOTES**
1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
  2. 1.3' FOOT DIAMETER LIMEROCK BOULDERS.
  3. ANY STABILIZATION IN THE AREA OF EXISTING BUTTONGROVES AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
  4. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
  5. NAVD 88 ELEVATIONS SHOWN IN PARENTHESES ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

FOR PERMIT ONLY

JUAN A. CUREL  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DEERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

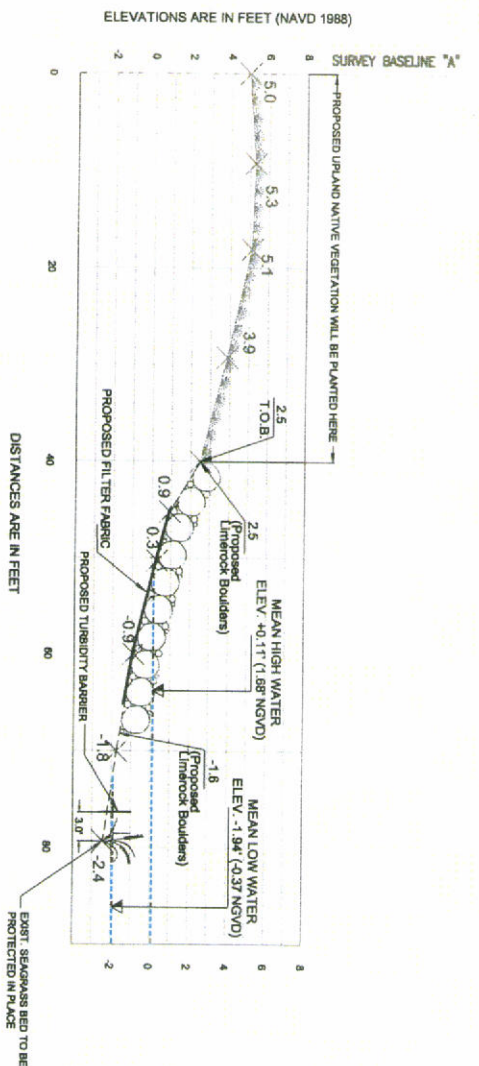
MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

JOB:  
TYPICAL CROSS SECTION - SITE 1 "A" & "B"

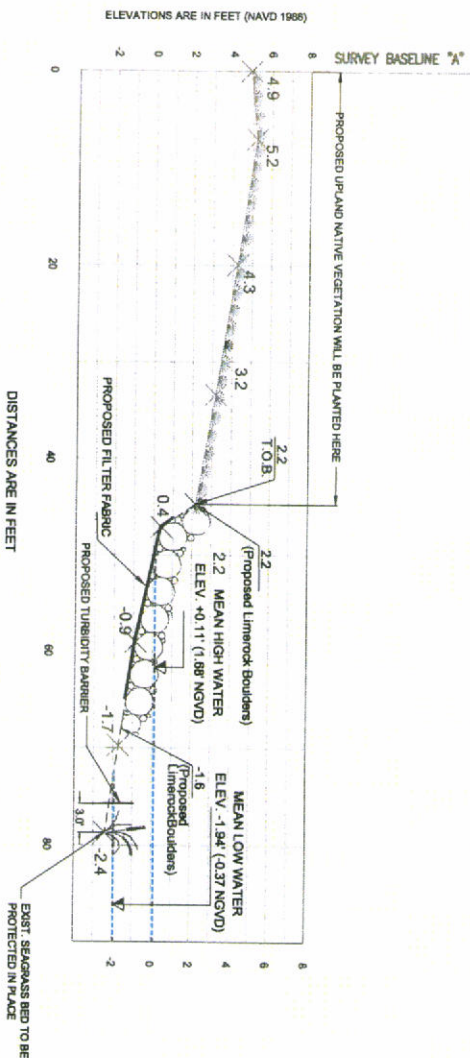
DATE: 02-11

SHIFT: 5 OF 8

# SITE 1



CROSS SECTION  
4+50



CROSS SECTION  
7+00

- NOTES:
1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
  2. 1'-3' FOOT DIAMETER LIMESTONE BOULDERS.
  3. ANY STABILIZATION IN THE AREA OF EXISTING BUTTWOODS AND MANGROVES WILL BE DONE IN SUCH MANNER AS TO PREVENT ANY IMPACTS TO ANY EXISTING VEGETATION.
  4. THE ENTIRE PROJECT AREA WILL BE CLEARED OF ANY EXOTIC VEGETATION PRIOR TO COMMENCEMENT OF STABILIZATION PROJECT.
  5. NGVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

FOR PERMIT ONLY

JUAN A. CUREL  
State of Florida Professional Engineer  
License No. 63890

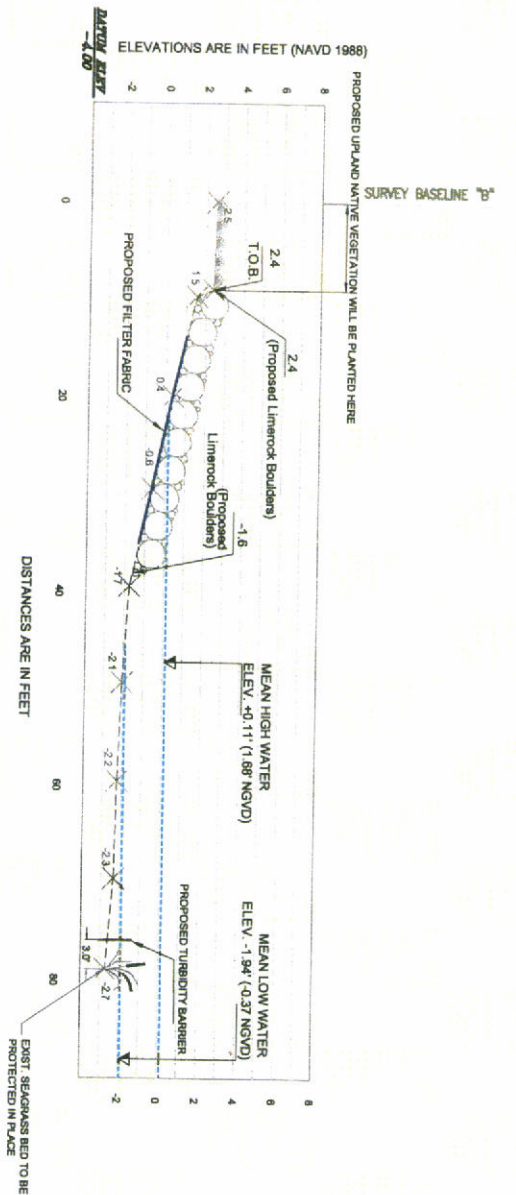
MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

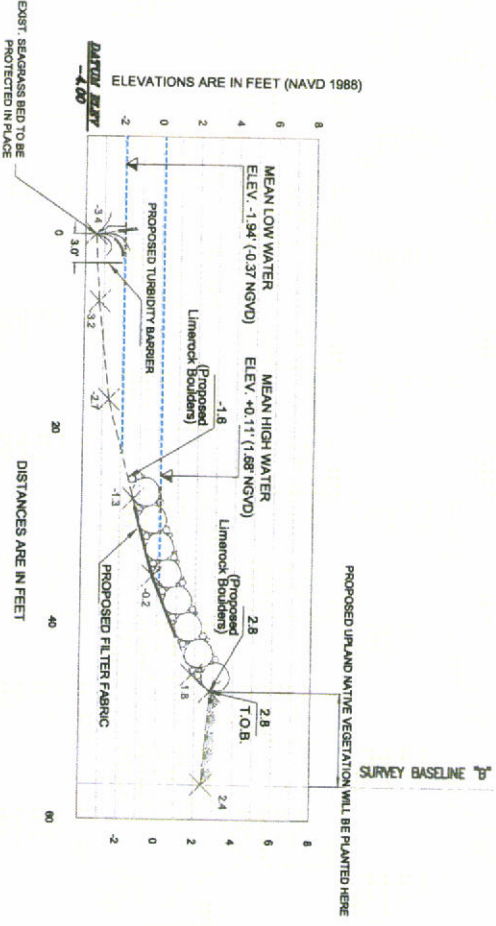
MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

JOB:  
BY: J.M.C. DATE: 02-11  
TYPICAL CROSS SECTION \_ SITE 1 "C" & "D"  
SHEET: 6 OF 8

# SITE 2



**CROSS SECTION**  
98° CLOCKWISE FROM STATION +00  
(ALONG SAME PLANE)



**CROSS SECTION**  
0+75

- NOTES:
1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
  2. 1'-3' FOOT DIAMETER LIMEROCK BOULDERS.
  3. NAVD 29 ELEVATIONS SHOWN IN PARENTHESIS ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

SCALE HOR 1" = 20'  
SCALE VERT 1" = 10'

FOR PERMIT ONLY

JUAN A. CUREL  
State of Florida Professional Engineer  
License No. 63890

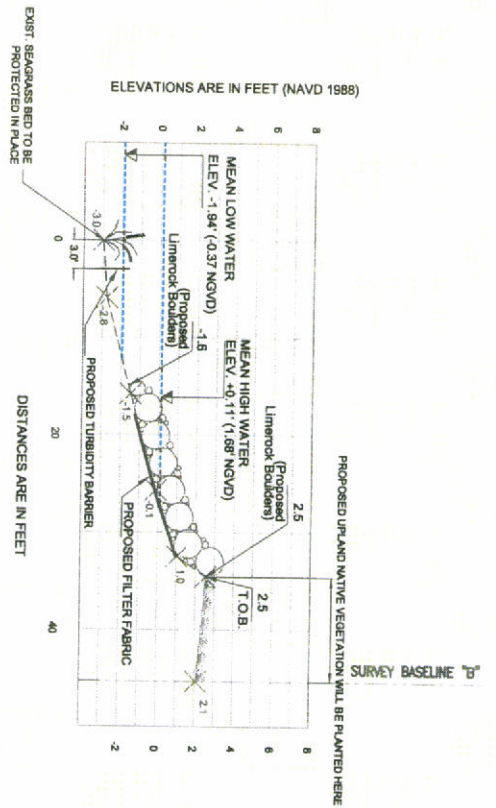
MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

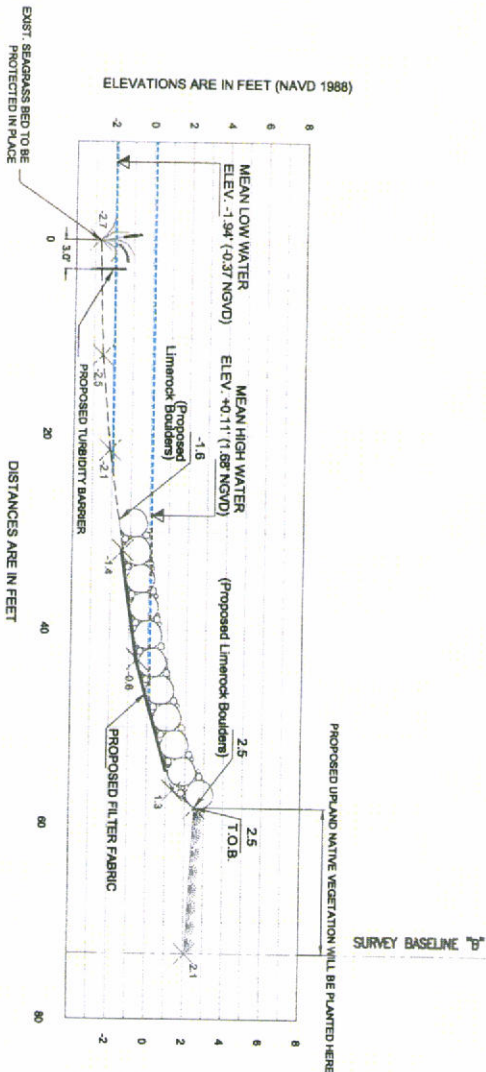
MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

JOB: TYPICAL CROSS SECTION - SITE 2 "A" & "B"  
BY: J.M.C.  
DATE: 02-11  
SHIFT: 7 OF 8

# SITE 2



CROSS SECTION  
0+00



CROSS SECTION  
30' COUNTERCLOCKWISE FROM STATION 0+00

- NOTES:
1. PROPOSED TURBIDITY BARRIER TO BE REMOVED AFTER THE PROJECT COMPLETION.
  2. 1'-3' FOOT DIAMETER LIMEROCK BOULDERS.
  3. NAVD 29 ELEVATIONS SHOWN IN PARENTHESES ARE APPROXIMATE CONVERSIONS FROM NAVD 88 AND SERVE AS COMPARISON ONLY.

FOR PERMIT ONLY

JUAN A. CUREL  
State of Florida Professional Engineer  
License No. 63890

MIAMI-DADE COUNTY DERM  
WATER MANAGEMENT  
DIVISION

701 NW 1st Court, 5th Floor  
MIAMI, FLORIDA 33136

MIAMI MARINE STADIUM PARK  
SHORELINE STABILIZATION PROJECT  
SITE 1 & 2  
(NOT FOR CONSTRUCTION)

JOB:  
BY: J.M.C.

DATE: 02-11  
SHEET: 8 OF 8

SCALE HOR: 1" = 20'  
SCALE VERT: 1" = 10'

**Attachment C: Legal Description**

DEED NO. 19448

ORB 3130 Pg 260

2/24/49

2/24/

KNOW ALL MEN BY THESE PRESENTS: That the undersigned, the Trustees of the Internal Improvement Fund of the State of Florida, under and by virtue of the authority of Section 253.12 Florida Statutes, 1941, and according to the provisions and procedure provided for in Section 253.13, Florida Statutes, 1941, and for and in consideration of the sum of Ten and 00/100 Dollars, and other good and valuable considerations ~~to them~~ to them in hand paid by CITY OF MIAMI

Dade County, Florida, receipt of which is hereby acknowledged, have granted, bargained, sold and conveyed to the said CITY OF MIAMI and its successors ~~to them~~ and assigns, forever, the following described lands, to-wit:

All that submerged and partially submerged land in Sections 21 and 22, 23, 26, 27 and 35, Township 54 South, Range 41 East, described as follows:

Bounded on the Northwest by the United States Pier-head and Bulkhead Line as established along the westerly side of Biscayne Bay;

Bounded on the Northeast by the Southeasterly production of the Northeastly right-of-way line of Kirk Street;

Bounded on the Southwest by the Southeasterly production of the Southwesterly boundary of that tract of land marked "John M. Hopkins Lot, Lake Placid School" according to the Plat of the John M. Hopkins Lake Placid School Property, as recorded in Plat Book 6 at Page 152 of the Public Records of Dade County, Florida;

Bounded on the Southeast by that land which is consistently more than 6 feet below the mean-low-water surface of Biscayne Bay.

PROVIDED, HOWEVER, anything herein to the contrary notwithstanding, this deed is given and granted upon the express condition subsequent that the Grantee herein or its successors and assigns shall never sell or convey or lease the above described land or any part thereof to any private person, firm or corporation for any private use or purpose, it being the intention of this restriction that the said lands shall be used solely for public purposes, including municipal purposes and not otherwise.

PROVIDED, FURTHER, anything herein to the contrary notwithstanding, this deed is given and granted upon the further express condition subsequent that the Grantee herein or its successors or assigns shall not give or grant any license or permit to any private person, firm or corporation to construct or make by any means, any islands, fills, embankments, structures, buildings or other similar things within or upon the above described lands or any part thereof for any private use or purpose, as distinguished from any public or municipal use or purpose.

It is covenanted and agreed that the above conditions subsequent shall run with the land and any violation thereof shall render this deed null and void and the above described lands shall, in such event, revert to the Grantors or their successors.

# EXHIBIT "A"

TO HAVE AND TO HOLD the said above mentioned and described land and premises, and all the title and interest of the Trustees therein as granted to them by Section 253.12, Florida Statutes, 1941, unto the said \_\_\_\_\_

CITY OF MIAMI

and its successors  
and assigns, forever.

SAVING AND RESERVING unto the Trustees of the Internal Improvement Fund of Florida, and their successors, an undivided three-fourths interest in and title in and to an undivided three-fourths interest in all the phosphate, minerals and metals that are or may be in, on or under the said above described lands, and an undivided one-half interest in and title in and to an undivided one-half interest in all the petroleum that is or may be in or under the said above described land, with the privilege to mine and develop the same.

IN WITNESS WHEREOF, The Trustees of the Internal Improvement Fund of the State of Florida have hereto subscribed their names and affixed their seals, and have caused the seal of the DEPARTMENT OF AGRICULTURE OF THE STATE OF FLORIDA, to be hereunto affixed, at the Capitol, in the City of Tallahassee, on this the 24th, day of February, A. D. Nineteen

Hundred and Forty-nine

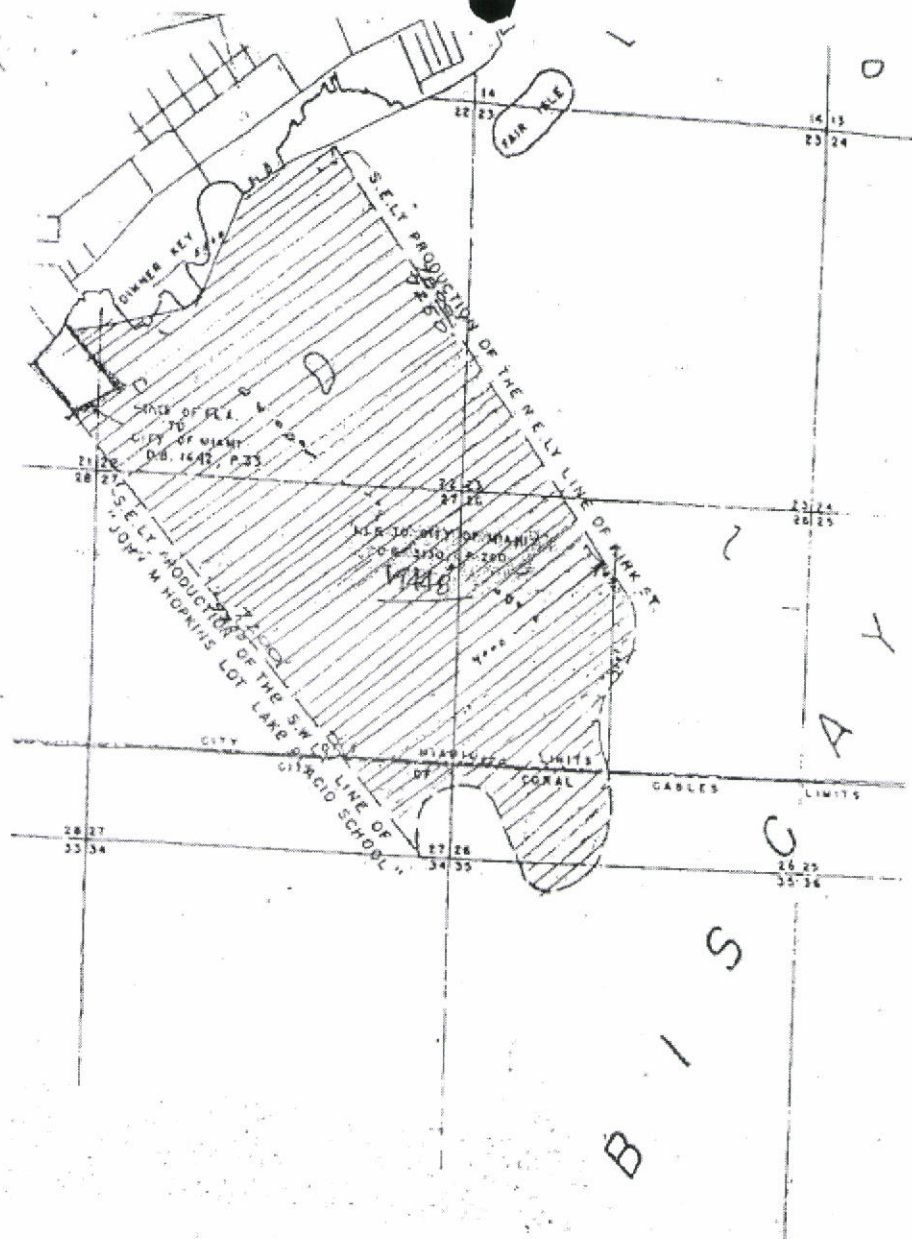
Jacob W. Warran (SEAL)  
Governor.  
C. N. Gay (SEAL)  
Comptroller.  
Edwin L. Brown (SEAL)  
Treasurer.  
Richard W. Ewing (SEAL)  
Attorney-General.  
Harold A. Bly (SEAL)  
Commissioner of Agriculture.

State of Florida, County of Dade.

This instrument was filed for record the 11 day of April, 1949 at 4:00 P. M. and duly recorded in Book 3130 on Page 240 File No. Y-242611

E. B. LEATHERMAN  
Clerk Circuit Court

By W. J. Sparrow D.C.



#### REFERENCES

QUADRANGLE MAP T-8433  
 T-8434  
 SURVEY BOOKS 552, 565, 546, 554, 713  
 J. S. C. & G. MAP 548 - OCT. 1939  
 583 - MAR. 1931  
 HARRIS  
 6-5  
 6-5  
 OFFICIAL MAP MADE CITY 1948  
 GARRIS' SURVEY LAMMUS ISLAND MAR. 1938, JULY 1943  
 MAYNESON ESTATE FEB. 1933  
 BAY BOTTOM LANDS CORRESPONDENCE FILE  
 CHAPTER 24713 - (NO. 1099) SENATE BILL NO. 718

INTERNAL IMPROVEMENT FUND, STATE OF FLORIDA.

DEED NO. 18030

KNOW ALL MEN BY THESE PRESENTS: That the undersigned, the Trustees of the Internal Improvement Fund of the State of Florida, under and by virtue of the authority of Senate Bill No. 682, Chapter 13666, Laws of Florida, Acts of 1929, and for and in consideration of the sum of TWO THOUSAND SIX HUNDRED SEVENTEEN & 50/100 DOLLARS (\$2,617.50), representing the estimated interest of the State School Fund in and to said lands as provided by the State Constitution, to them in hand paid by the City of Miami, a municipal Corporation of the State of Florida, receipt of which is hereby acknowledged, have granted, bargained, sold and conveyed to the said City of Miami for Municipal purposes only, and to its successors, forever, the following described submerged and partly submerged lands, situate lying and being in Dade County, Florida, to-wit:

Beginning at a point on the East boundary of Section 8, in Township 54 South, Range 42 East, Dade County, Florida, 1000 feet North of the Southeast corner of said Section 8;

Thence West parallel with the South boundary of said Section 8, a distance of 5280 feet more or less, to a point on the West boundary of said Section 8, 1000 feet North of the Southwest corner thereof;

Thence South on the West boundary of Section 8 to the Southwest corner of the Section;

Thence West on the North boundary of Section 18, 1000 feet; Thence South to a point 150 feet North of the center line of the proposed Causeway, said distance of 150 feet, being measured at right angles to the axis of the said Causeway;

Thence Northwesterly parallel with and at a distance of 150 feet at right angles with said Causeway to a point where the said line intersects the harbor and bulkhead line as established by the United States on the West side of Biscayne Bay;

Thence following said Harbor and Bulkhead line Southwesterly to a point 150 feet Southwesterly of the center line of said Causeway as measured at right angles thereto;

Thence Southeasterly parallel with and at a distance of 150 feet from the center line of said proposed Causeway to a point 1000 feet West of the Eastern boundary of Section 18;

**EXHIBIT "B"**

Thence South to the intersection of said line with the South boundary of said Section 18;

Thence continuing in Section 19, 1000 feet;

Thence East 1000 feet, more or less, to the Eastern boundary of said Section 19;

Thence South along the Eastern boundary of Section 19, 1300 feet, more or less;

Thence in an Easterly direction to connect with the Southwestern extremity of Virginia Key;

Thence following the West shore line of Virginia Key in a general Northerly and Northeasterly direction to its intersection with the East boundary of Section 17;

Thence North along the East boundary of Section 17, to the Northeast corner of said Section;

Thence North along the East boundary of Section 8, a distance of 1000 feet to the point of beginning first above described.

Containing 1,047 acres, more or less, all being in Township and Range first above described.

TO HAVE AND TO HOLD the said above mentioned and described land and premises and all the title and interest in the Trustees therein unto the said City of Miami and its successors, for municipal purposes only, forever, provided, that this conveyance shall in no way extinguish or effect any lawful lien or trust deed mortgaging riparian rights which may conflict with the above conveyance, or any prior or present existing rights of any party or parties, owning or having an equity in lands or bottoms adjacent to the tract hereby conveyed, and this conveyance is made expressly subject to such provisions.

SAVING AND RESERVING unto the Trustees of the Internal Improvement Fund of Florida, and their successors, an undivided three-fourths interest in and title in and to an undivided three-fourths interest in all the phosphate, minerals and metals that are or may be in, on or under the said above described lands and an undivided one-half interest in and title in and to an undivided one-half interest in all the petroleum that is or may be in or under the said above described land, with the privilege to mine and develop the same.

IN WITNESS WHEREOF, The Trustees of the Internal Improvement Fund of the State of Florida have hereunto subscribed their

Thence South to the intersection of said line with the South boundary of said Section 18;

Thence continuing in Section 19, 1000 feet;

Thence East 1000 feet, more or less, to the Eastern boundary of said Section 19;

Thence South along the Eastern boundary of Section 19, 1300 feet, more or less;

Thence in an Easterly direction to connect with the Southwestern extremity of Virginia Key;

Thence following the West shore line of Virginia Key in a general Northerly and Northeasterly direction to its intersection with the East boundary of Section 17;

Thence North along the East boundary of Section 17, to the Northeast corner of said Section;

Thence North along the East boundary of Section 8, a distance of 1000 feet to the point of beginning first above described.

Containing 1.047 acres, more or less, all being in Township and Range first above described.

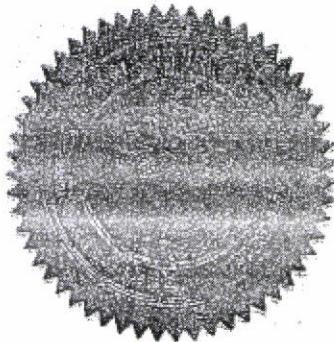
TO HAVE AND TO HOLD the said above mentioned and described land and premises and all the title and interest in the Trustees therein unto the said City of Miami and its successors, for municipal purposes only, forever, provided, that this conveyance shall in no way extinguish or effect any lawful lien or trust deed mortgaging riparian rights which may conflict with the above conveyance, or any prior or present existing rights of any party or parties, owning or having an equity in lands or bottoms adjacent to the tract hereby conveyed, and this conveyance is made expressly subject to such provisions.

SAVING AND RESERVING unto the Trustees of the Internal Improvement Fund of Florida, and their successors, an undivided three-fourths interest in and title in and to an undivided three-fourths interest in all the phosphate, minerals and metals that are or may be in, on or under the said above described lands, and an undivided one-half interest in and title in and to an undivided one-half interest in all the petroleum that is or may be in or under the said above described land, with the privilege to mine and develop the same.

IN WITNESS WHEREOF, The Trustees of the Internal Improvement Fund of the State of Florida have hereunto subscribed their

BOOK 1325 PAGE 250

names and affixed their seals, and have caused the seal of the  
DEPARTMENT OF AGRICULTURE OF THE STATE OF FLORIDA, to be hereunto  
affixed, at the Capitol, in the City of Tallahassee, on this  
the 23<sup>rd</sup> day of July, A. D. Nineteen Hundred and Twenty-  
Nine.



Wayne H. Warren (SEAL)  
GOVERNOR

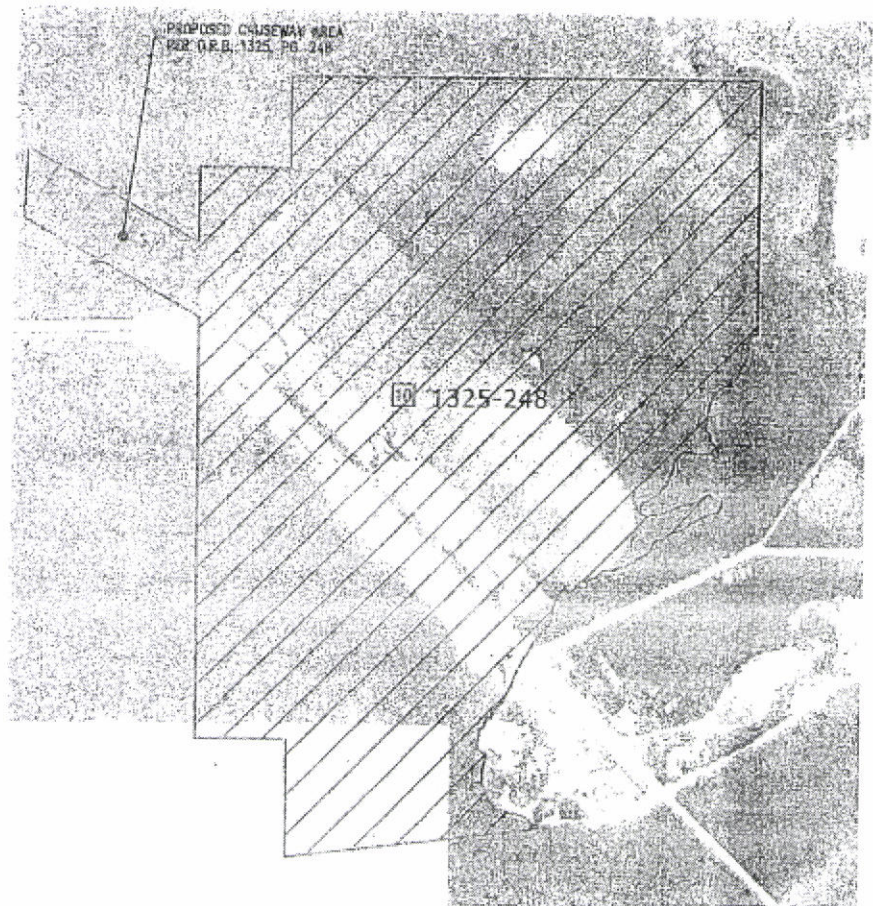
Ernest Amos (SEAL)  
COMPTROLLER.

W. T. Knott (SEAL)  
TREASURER,

Fred W. Jarvis (SEAL)  
ATTORNEY-GENERAL.

W. H. H. H. (SEAL)  
COMMISSIONER OF AGRICULTURE.

FILED Aug 2 1929 AT 3:19 O'CLOCK P.M.  
AND RECORDED IN THE BOOK NOTED ABOVE  
E. B. LEATHERMAN, CLERK CIRCUIT COURT  
DADE COUNTY, FLORIDA



**NOTES:**

1. THIS EXHIBIT SHALL BE USED IN CONJUNCTION WITH THE DRAWING SET ENTITLED "CADASTRAL MAPPING PROGRAM FOR THE ISLAND OF VIRGINIA KEY CITY OF MIAMI, FLORIDA" (THE "CADASTRAL MAP") PREPARED BY PBS&J DATED JULY 1, 2004 UNDER JOB NO.

2. 1325-248 AS INDICATED ON THIS EXHIBIT SHALL MEAN THE ITEM NUMBER, OFFICIAL RECORDS BOOK (OR DEED BOOK) AND PAGE NUMBER AS FOUND ON THE CADASTRAL MAP.

**LEGEND:**

10 SHALL MEAN AN ITEM NUMBER WHICH CONTAINS PROPERTY RESTRICTIONS MORE FULLY DESCRIBED IN THE RECORDED DOCUMENT.

10 SHALL MEAN AN ITEM NUMBER THAT DOES NOT APPEAR TO CONTAIN PROPERTY RESTRICTIONS IN THE RECORDED DOCUMENT.

<b>PBS&amp;J</b> 2001 N.W. 107th AVE. MIAMI, FL 33172-2507 (305) 592-7275  FLORIDA CERTIFICATE OF AUTHORIZATION NUMBER LB24	<b>CITY OF MIAMI</b>		DATE: 10-22-04
	<b>VIRGINIA KEY CADASTRAL</b> <b>O.R.B. 1325-248</b>		DESIGNED: Z.C. PEREZ DRAWN: Z.C. PEREZ CHECKED: D.W. DEANS JOB NO.: 01-1349.01

DEED

THIS DEED, made this 19th day of November, 1948, by  
DADE COUNTY, FLORIDA, party of the first part, and THE CITY OF MIAM  
a municipal corporation of the State of Florida, situate in Dade  
County, whose mailing address is: Court House, Miami, Florida,  
party of the second part,

W I T N E S S E T H:

That the said party of the first part, for and in con-  
sideration of the sum of Ten Dollars (\$10.00) and other valuable  
considerations to it in hand paid by the party of the second part,  
receipt whereof is hereby acknowledged, has granted, bargained and  
sold to the party of the second part and its successors forever, all  
the right, title and interest of the party of the first part in and  
to the following described land lying and being in Dade County,  
Florida:

All that part of Section 17, Township 54 South,  
Range 42 East, lying North and West of a line  
extending from a point on the east line of said  
Section 17, 1,000 feet North of the southeast  
corner thereof to a point on the south line of  
said Section 17, 2100 feet West of the southeast  
corner thereof, excepting therefrom all that part  
of said Section 17 which lies South and West of  
the northeasterly right-of-way line of Rickenbacker  
Causeway, which right-of-way line is 660 feet  
northeasterly from and measured at right angles  
to the center line of said Causeway as the same is  
now constructed.

IT IS SPECIFICALLY PROVIDED that the property herein con-  
veyed shall be used for municipal purposes solely.

IN WITNESS WHEREOF the said party of the first part has  
caused these presents to be executed in its name by its Board of  
County Commissioners acting by the Chairman and Clerk of said Board  
the day and year aforesaid.

DADE COUNTY

BY ITS BOARD OF COUNTY COMMISSIONERS:

By Hugh L. Little Vice-Chairman

ATTEST: E. B. LEATHERMAN,  
Clerk of Board of  
County Commissioners

By H. B. Leathman Deputy Clerk



State of Florida, County of Dade:

This instrument was filed for record the 19 day of Nov  
1948 at 10:49 AM and duly recorded in Deed  
Book 3080 on Page 129 File No. 104652

E. B. LEATHERMAN  
Clerk of Board

## D E E D

THIS DEED, made this 19th day of November, 1948, by  
DADE COUNTY,, FLORIDA, party of the first part, and THE CITY OF MIAMI  
a municipal corporation of the State of Florida, situate in Dade  
County, whose mailing address is: Court House, Miami, Florida,  
party of the second part,

## W I T N E S S E T H:

That the said party of the first part, for and in con-  
sideration of the sum of Ten Dollars (\$10.00) and other valuable  
considerations to it in hand paid by the party of the second part,  
receipt whereof is hereby acknowledged, has granted, bargained and  
sold to the party of the second part and its successors forever, all  
the right, title and interest of the party of the first part in and  
to the following described land lying and being in Dade County,  
Florida:

All that part of Section 17, Township 54 South,  
Range 42 East, lying North and West of a line  
extending from a point on the east line of said  
Section 17, 1,000 feet North of the southeast  
corner thereof to a point on the south line of  
said Section 17, 2100 feet West of the southeast  
corner thereof, excepting therefrom all that part  
of said Section 17 which lies South and West of  
the northeasterly right-of-way line of Rickenbacker  
Causeway, which right-of-way line is 660 feet  
northeasterly from and measured at right angles  
to the center line of said Causeway as the same is  
now constructed.

IT IS SPECIFICALLY PROVIDED that the property herein con-  
veyed shall be used for municipal purposes solely.

IN WITNESS WHEREOF the said party of the first part has  
caused these presents to be executed in its name by its Board of  
County Commissioners acting by the Chairman and Clerk of said Board,  
the day and year aforesaid.

DADE COUNTY

BY ITS BOARD OF COUNTY COMMISSIONERS

By

Vice-Chairman

ATTEST: E. B. LEATHERMAN  
Clerk of Board of  
County Commissioners

By

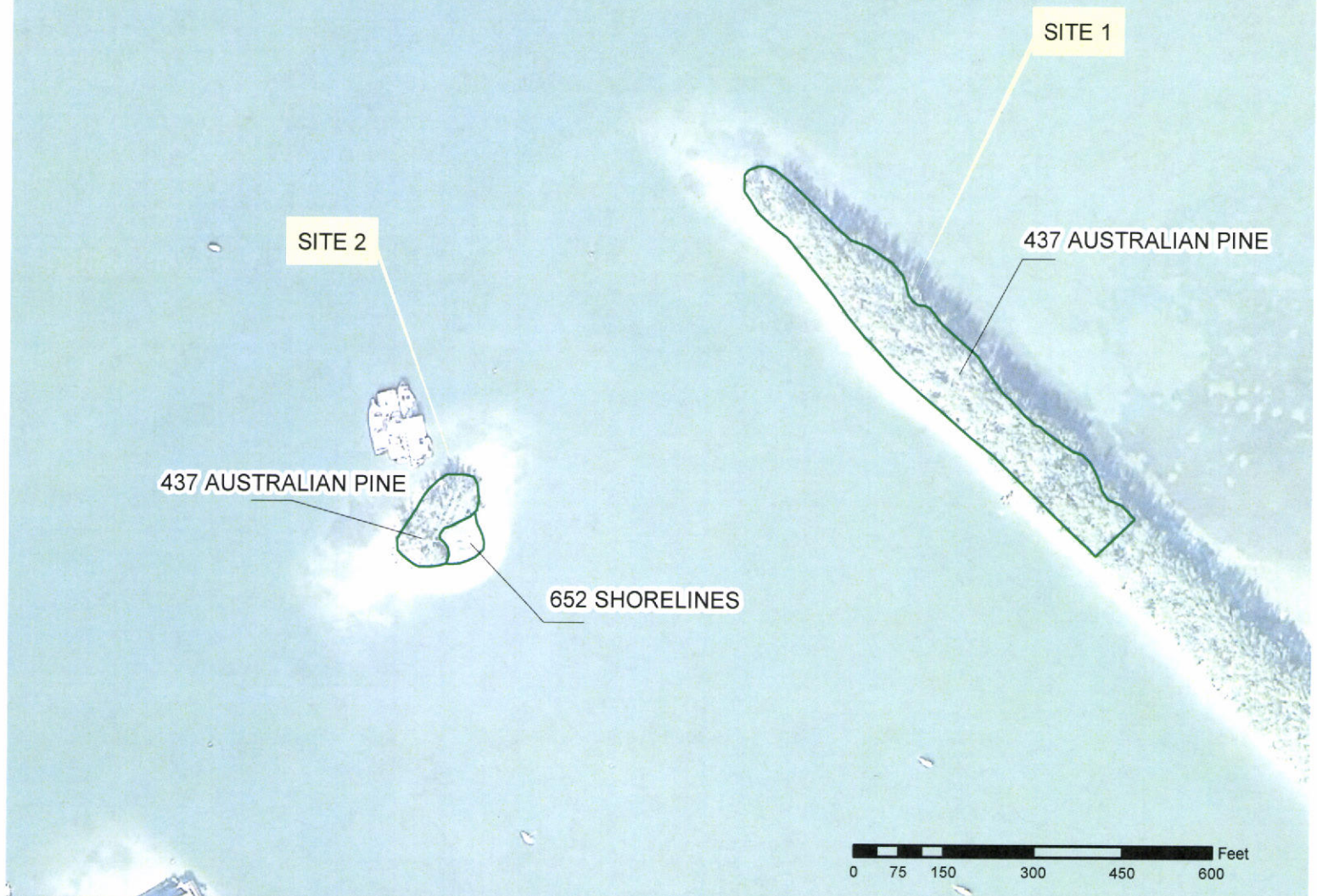
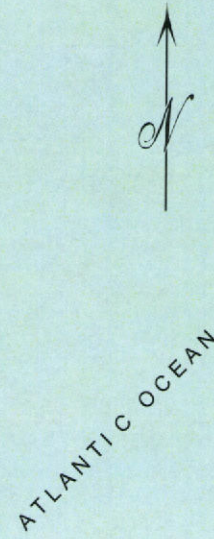
Deputy Clerk

State of Florida, County of Dade:

This instrument was filed for record the 19 day of  
1948 at 2:41 P. M. and duly recorded in  
Book 3080 on Page 129 File No. X-463-2

E. B. LEATHERMAN  
Clerk Circuit Court

**Attachment D: FLUCCS Map**



**Attachment E: Riparian Property Owner's Map**



CITY OF MIAMI-DEPT OF P&D

CITY OF MIAMI-DEPT OF P&D

**SITE 1**

500 FT. Radius

**SITE 2**

500 FT. Radius

CITY OF MIAMI

**PROPERTY WITHIN 500 FT. RADIUS**

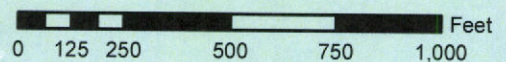
Owner's Name: CITY OF MIAMI  
 PTX Address: 3501 RICKENBACKER CSWY  
 Mail Address: 444 SW 2 Ave.  
 Miami, Florida 33130  
 FOLIO: 0142170000010  
 TTRRSS: 544217

CITY OF MIAMI-RUSTYDELI

CITY OF MIAMI-RICK MARIN

MIAMI DADE COUNTY RICKENBACKER MARINE

CITY OF MIAMI-DEPT OF P&D



**MIAMI MARINE STADIUM PARK  
 SHORELINE STABILIZATION PROJECT  
 SITE 1 & 2**

Figure: **PROPERTY  
 ( 500 ft. Radius )**

# Miami Marine Stadium Park Shoreline Stabilization: Proposed Staging/Offload Areas

