



**SOUTH FLORIDA WATER MANAGEMENT DISTRICT
 ENVIRONMENTAL RESOURCE
 STANDARD PERMIT NO. 13-05394-P
 DATE ISSUED: August 7, 2013**

Form #0941
08/95

PERMITTEE: CITY OF MIAMI
444 S W 2ND AVE
MIAMI, FL 33130

PROJECT DESCRIPTION: Construction and operation of a pedestrian walkway and associated drainage features, serving a recreational project known as Miami Woman's Club Baywalk, and authorization to use Sovereignty Submerged Lands in the form of a letter of consent.

PROJECT LOCATION: MIAMI-DADE COUNTY, SEC 19 TWP 53S RGE 42E

PERMIT DURATION: See Special Condition No:1. Pursuant to Rule 40E-4.321, Florida Administrative Code.

This is to notify you of the District's agency action concerning Notice of Intent for Permit Application No. 130426-5, dated April 26, 2013. This action is taken pursuant to Rule 40E-1.603 and Chapter 40E-40 , Florida Administrative Code (F.A.C.).

Based on the information provided, District rules have been adhered to and an Environmental Resource Permit is in effect for this project subject to:

1. Not receiving a filed request for a Chapter 120, Florida Statutes, administrative hearing.
2. the attached 19 General Conditions (See Pages : 2 - 4 of 7),
3. the attached 14 Special Conditions (See Pages : 5 - 6 of 7),
4. the attached General Conditions for Authorizations for Use of Sovereign Submerged Lands (See Pages : 7 - 7 of 7) and
5. the attached 3 Exhibit(s)

Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights," we will assume that you concur with the District's action.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a "Notice of Rights" has been mailed to the Permittee (and the persons listed in the attached distribution list) no later than 5:00 p.m. on this 7th day of August, 2013, in accordance with Section 120.60(3), Florida Statutes.

BY: Anita R. Bain

Anita R. Bain
Bureau Chief - Environmental Resource Permitting
Regulation Division

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SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on August 7, 2018.
2. Operation of the surface water management system shall be the responsibility of PERMITTEE.
3. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.
4. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.
5. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.
6. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.
7. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
8. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.
9. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.
10. The permittee acknowledges that, pursuant to Rule 40E-4.101(2), F.A.C., a notice of Environmental Resource or Surface Water Management Permit may be recorded in the county public records. Pursuant to the specific language of the rule, this notice shall not be considered an encumbrance upon the property.
11. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

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GENERAL CONDITIONS

1. 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.
2. 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 District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. 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), incorporated by reference in Rule 40E-4.091, F.A.C. 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.
4. The permittee shall notify the District 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 District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.
5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.
6. Within 30 days after completion of construction of the permitted activity, the permittee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite 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 District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved 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" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.
7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request for conversion of Environmental Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to

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GENERAL CONDITIONS

be in compliance with the permitted plans and specifications; and the entity approved by the District 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, 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 District, 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 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. 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.
9. 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 District along with any 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, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District 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.
10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.
11. 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..
12. 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.
13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No Notice" Rule.
14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities

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GENERAL CONDITIONS

which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.

15. 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.
16. The permittee shall notify the District 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 Rules 40E-1.6105 and 40E-1.6107, 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.
17. Upon reasonable notice to the permittee, District 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.
18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.
19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

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1. The construction phase of this permit shall expire on August 7, 2018.
2. Operation of the surface water management system shall be the responsibility of the permittee.
3. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.
4. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.
5. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.
6. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.
7. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
8. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.
9. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.
10. The permittee acknowledges that, pursuant to Rule 40E-4.101(2), F.A.C., a notice of Environmental Resource or Surface Water Management Permit may be recorded in the county public records. Pursuant to the specific language of the rule, this notice shall not be considered an encumbrance upon the property.
11. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.
12. The permittee shall comply with the following conditions intended to protect manatees and marine turtles from direct project effects:
 - a. All personnel associated with the project shall be instructed about the presence of marine turtles, manatees and manatee speed zones, and the need to avoid collisions with and injuries to manatees. The permittee shall advise all construction personnel that there are civil and criminal penalties for harming,

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SPECIAL CONDITIONS

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 and marine turtles cannot become entangled, shall be properly secured, and shall be regularly monitored to avoid manatee and marine turtle 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 marine turtles and manatee(s). All in-water operations, including vessels, must be shutdown if a marine turtle or manatee(s) comes within 50 feet of the operation. Activities will not resume until the animal(s) have moved beyond the 50-foot radius of the project operation, or until 30 minutes elapses if the animal(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 marine turtle or manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580) for north Florida or Vero Beach (1-772-562-3909) for south Florida.

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. Awareness signs that have already been approved for this use by the Florida Fish and Wildlife Conservation Commission (FWC) must be used. One sign measuring at least 3 ft. by 4 ft. which reads Caution: Manatee Area 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.

13. Silt screens and turbidity screens/barriers or other such sediment control measures shall be utilized during construction. Netting or similar material shall be installed on the seaward side of the seawall to capture debris produced from the seawall repairs and prevent the debris from falling into the water. The selected sediment and debris control measures shall be installed prior to the commencement of construction in or adjacent to other surface waters in accordance with Exhibit No. 2 and shall remain in place until all adjacent construction is completed.

The two concrete support piles shall be driven using equipment operated from the uplands. The use of barges for construction of the project is not authorized.

All landward areas disturbed by construction shall be stabilized and vegetated immediately after construction to prevent erosion into the surface waters.

14. The authorization for construction of the surface water management system is issued pursuant to the water quality net improvement provisions referenced in Rule Section 40E-4.303(1), Florida Administrative Code; therefore, the state water quality certification is waived.

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**GENERAL CONDITIONS FOR AUTHORIZATIONS FOR USE OF
SOVEREIGN SUBMERGED LANDS**

Project No. 130426-5

Chapter 18-21.004(7), F.A.C., provides that all authorizations granted by rule or in writing under Rule 18-21.005, F.A.C., except those for aquaculture activities and geophysical testing, shall be subject to the general conditions as set forth in paragraphs (a) through (i) below. The general conditions shall be part of all authorizations under this chapter, shall be binding upon the grantee, and shall be enforceable under Chapter 253 or Chapter 258, Part II, F.S.

Chapter 18-21.004(7), F.A.C., General Conditions for Authorizations:

(a) Authorizations are valid only for the specified activity or use. Any unauthorized deviation from the specified activity or use and the conditions for undertaking that activity or use shall constitute a violation. Violation of the authorization shall result in suspension or revocation of the grantee's use of the sovereignty submerged land unless cured to the satisfaction of the Board.

(b) Authorizations convey no title to sovereignty submerged land or water column, nor do they constitute recognition or acknowledgment of any other person's title to such land or water.

(c) Authorizations may be modified, suspended or revoked in accordance with their terms or the remedies provided in Sections 253.04 and 258.46, F.S., or Chapter 18-14, F.A.C.

(d) Structures or activities shall be constructed and used to avoid or minimize adverse impacts to sovereignty submerged lands and resources.

(e) Construction, use, or operation of the structure or activity shall not adversely affect any species which is endangered, threatened or of special concern, as listed in Rules 68A-27.003, 68A-27.004, and 68A-27.005, F.A.C.

(f) Structures or activities shall not unreasonably interfere with riparian rights. When a court of competent jurisdiction determines that riparian rights have been unlawfully affected, the structure or activity shall be modified in accordance with the court's decision.

(g) Structures or activities shall not create a navigational hazard.

(h) Structures shall be maintained in a functional condition and shall be repaired or removed if they become dilapidated to such an extent that they are no longer functional. This shall not be construed to prohibit the repair or replacement subject to the provisions of Rule 18-21.005, F.A.C., within one year, of a structure damaged in a discrete event such as a storm, flood, accident, or fire.

(i) Structures or activities shall be constructed, operated, and maintained solely for water dependent purposes, or for non-water dependent activities authorized under paragraph 18-21.004(1)(g), F.A.C., or any other applicable law.

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NOTICE OF RIGHTS

As required by Sections 120.569(1), and 120.60(3), Fla. Stat., following is notice of the opportunities which may be available for administrative hearing or judicial review when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on a District decision which does or may determine their substantial interests shall file a petition for hearing with the District Clerk within 21 days of receipt of written notice of the decision, unless one of the following shorter time periods apply: 1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Fla. Stat.; or 2) within 14 days of service of an Administrative Order pursuant to Subsection 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of either written notice through mail, or electronic mail, or posting that the District has or intends to take final agency action, or publication of notice that the District has or intends to take final agency action. Any person who receives written notice of a SFWMD decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

Filing Instructions

The Petition must be filed with the Office of the District Clerk of the SFWMD. Filings with the District Clerk may be made by mail, hand-delivery or facsimile. **Filings by e-mail will not be accepted.** Any person wishing to receive a clerked copy with the date and time stamped must provide an additional copy. A petition for administrative hearing is deemed filed upon receipt during normal business hours by the District Clerk at SFWMD headquarters in West Palm Beach, Florida. Any document received by the office of the SFWMD Clerk after 5:00 p.m. shall be filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the SFWMD Clerk, P.O. Box 24680, West Palm Beach, Florida 33416.
- Filings by hand-delivery must be delivered to the Office of the SFWMD Clerk. **Delivery of a petition to the SFWMD's security desk does not constitute filing. To ensure proper filing, it will be necessary to request the SFWMD's security officer to contact the Clerk's office.** An employee of the SFWMD's Clerk's office will receive and file the petition.
- Filings by facsimile must be transmitted to the SFWMD Clerk's Office at (561) 682-6010. Pursuant to Subsections 28-106.104(7), (8) and (9), Fla. Admin. Code, a party who files a document by facsimile represents that the original physically signed document will be retained by that party for the duration of that proceeding and of any subsequent appeal or subsequent proceeding in that cause. Any party who elects to file any document by facsimile shall be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed with the clerk as a result. The filing date for a document filed by facsimile shall be the date the SFWMD Clerk receives the complete document.

Initiation of an Administrative Hearing

Pursuant to Rules 28-106.201 and 28-106.301, Fla. Admin. Code, initiation of an administrative hearing shall be made by written petition to the SFWMD in legible form and on 8 and 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other SFWMD identification number, if known.
2. The name, address and telephone number of the petitioner and petitioner's representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the SFWMD's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the SFWMD's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the SFWMD's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the SFWMD to take with respect to the SFWMD's proposed action.

A person may file a request for an extension of time for filing a petition. The SFWMD may, for good cause, grant the request. Requests for extension of time must be filed with the SFWMD prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and that the SFWMD and any other parties agree to or oppose the extension. 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 the District takes action with substantially different impacts on water resources from the notice of intended agency decision, the persons who may be substantially affected shall have an additional point of entry pursuant to Rule 28-106.111, Fla. Admin. Code, unless otherwise provided by law.

Mediation

The procedures for pursuing mediation are set forth in Section 120.573, Fla. Stat., and Rules 28-106.111 and 28-106.401-405, Fla. Admin. Code. The SFWMD is not proposing mediation for this agency action under Section 120.573, Fla. Stat., at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Sections 120.60(3) and 120.68, Fla. Stat., a party who is adversely affected by final SFWMD action may seek judicial review of the SFWMD's final decision by filing a notice of appeal pursuant to Florida Rule of Appellate Procedure 9.110 in the Fourth District Court of Appeal or in the appellate district where a party resides and filing a second copy of the notice with the SFWMD Clerk within 30 days of rendering of the final SFWMD action.

Last Date For Agency Action: September 7, 2013

STANDARD ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT

Project Name: Miami Woman'S Club Baywalk

Permit No.: 13-05394-P

Application No.: 130426-5

Application Type: Environmental Resource (New Standard Permit)

Location: Miami-Dade County, S19/T53S/R42E

Permittee : City Of Miami

Operating Entity : Permittee

Project Area: 0.10 acres

Project Land Use: Recreational

Drainage Basin: INTRACOASTAL WATERWAY

Receiving Body: Biscayne Bay via Margaret Pace Park SWMS

Class: OFW

Special Drainage District: NA

Conservation Easement To District : No

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Sovereign Submerged Lands: Yes

Type: Letter Of Consent

PROJECT PURPOSE:

This application is a request for an Environmental Resource Permit to authorize construction and operation of a pedestrian walkway and associated drainage features serving a recreational project known as Miami Woman's Club Baywalk. The application also includes a request for authorization to use Sovereignty Submerged Lands in the form of a letter of consent.

PROJECT EVALUATION:**PROJECT SITE DESCRIPTION:**

The project site is located along the western shoreline of Biscayne Bay (Biscayne Bay Aquatic Preserve, Outstanding Florida Waters) at 1737 North Bayshore Drive, in the City of Miami, Miami-Dade County.

There are no permitted surface water management facilities within the project area. The area subject to this application consists of paved parking area of the Miami Woman's Club, an existing seawall extending several feet above grade, and some green space located along Margaret Pace Park. The proposed walkway overhangs approximately 594 square feet (0.01 acre) of submerged lands in the intertidal zone of Biscayne Bay and will be supported by two piles within the overhang footprint. Stormwater from a portion of the parking area of the Miami Woman's Club currently discharges through scuppers in the seawall directly into the Bay.

The Wetlands section of this staff report provides details of the submerged bottom within the project area and adjacent areas.

PROPOSED PROJECT:

This application is a request for an Environmental Resource Permit to authorize construction and operation of a pedestrian walkway and associated drainage features serving a recreational project known as Miami Woman's Club Baywalk. The application also includes a request for authorization to use Sovereign Submerged Land in the form of a letter of consent.

The proposed project consists of the construction of a concrete walkway that will connect an existing walkway located to the south along the shore line of the Doubletree Hotel and Marina to Margaret Pace Park to the north.

The proposed walkway is approximately 156 feet long and 22 feet wide with a portion extending over Biscayne Bay, and a 9 ft. wide by 77 ft. long transitional section, connecting to the existing walkway to the north. The transitional section will be constructed at grade between two new low retaining walls on the uplands. Minor repairs to the existing seawall are also proposed. See Exhibit 2 for project plans.

The majority of the structure is on uplands, and cantilevers over the existing seawall, which will be cut down to grade. The walkway will run parallel to the shoreline, extending less than 5 feet east over Biscayne Bay. The southern portion includes a 13.5 ft. long cantilevered segment, supported by two 14-inch square pilings, providing the wider section (approximately 12.5 feet over the Bay) to allow for the transition to the existing walkway on the property to the south. The two support pilings and decking will be constructed of concrete. Construction will be conducted using land-based equipment.

The proposed stormwater management system to collect runoff from the walkway and existing parking area, will consist of yard drains and culverts that collect and convey stormwater runoff to a "continuous deflective separation" system to provide water quality treatment in the form of sediment removal, and which connects to the City of Miami Margaret Pace Park stormwater management system.

WATER QUANTITY :

No adverse water quantity impacts are anticipated as a result of the construction of the proposed pedestrian walkway.

Control Elevation :

Basin	Area (Acres)	Ctrl Elev (ft, NGVD 29)	WSWT Ctrl Elev (ft, NGVD 29)	Method Of Determination
Site	.10	2	2.00	Mean High Tide

Receiving Body :

Basin	Str.#	Receiving Body
Site	S-15	Margaret Pace Park SWMS

WATER QUALITY :

The authorization for construction of the surface water management system is issued pursuant to the water quality net improvement provisions referenced in Rule Section 40E-4.303(1), Florida Administrative Code; therefore, the state water quality certification is waived. The applicant proposes to incorporate a continuous deflective separation device into the stormwater management system to provide water quality treatment by means of sediment removal prior to discharge.

The project involves minimal work in the water and includes measures to prevent water quality degradation within Biscayne Bay Aquatic Preserve, Outstanding Florida Waters. The applicant shall install and maintain temporary silt fences and a turbidity barrier around the limits of construction in accordance with Exhibit 2, Page 4 of 14, and Special Condition No. 13, such that turbidity beyond the work area does not exceed background background levels. The only construction in the water is installation of the two concrete piles supporting the southern end of the walkway. The piles will be driven using upland-based equipment, requiring approximately one day to complete. Seawall repairs will be accomplished using sawcuts rather than jackhammering. Temporary netting will be installed along the seawall to catch debris associated with the seawall repairs (Exhibit 2, Page 8 of 14, Demolition notes). Material will be disposed at an upland location. The temporary erosion control barriers and netting will be installed prior to construction and will be removed upon completion of the work.

No adverse water quality impacts are anticipated as a result of the proposed project.

WETLANDS:

Approximately 594 square feet (0.01 acre) of the proposed walkway extends over the western intertidal shoreline of Biscayne Bay. The at-grade portion of the walkway on the Park property is on uplands landward of an existing rock seawall.

The shoreline consists of unvegetated sand and rubble which is exposed at low tide and submerged at high tide. The area exposed at low tide is approximately between 5 to 10 feet beyond the seawall. A seagrass community dominated by *Syringodium filiforme* (manatee grass) and *Halodule wrightii* (shoal grass) occurs offshore from approximately 14 feet waterward of the seawall for most of its length, but 60 feet waterward at the south end, and extends seaward to unknown distance. It appears that seagrass establishment is inhibited closer to the south end of the site due to large rubble debris on the substrate, and by outflows from an existing outfall in the seawall at the Doubletree property to the south. Exhibit 3 contains a map of the seagrass locations.

The overhang of the majority of the walkway is less than 5 feet wide with the exception of the southern connecting area, where the overhanging is approximately 12.5 feet wide (Exhibit 2, Pages 10 and 13 of 14). The overhanging portion is located above unvegetated sand and rubble, is elevated approximately 3 feet above the mean high water elevation, and for most of the walkway's length is at least 9 feet from the

nearest edge of the seagrasses. The pile-supported transitional section that will connect to the existing walkway to the south is approximately 48 feet from the nearest edge of the seagrasses. The piles will be driven using upland-based equipment, and turbidity curtains are proposed to delineate the work area. Special netting attached to the seawall is proposed to capture any debris from the seawall repairs. Therefore, no impacts to seagrasses are anticipated or authorized.

Wildlife Issues:

The project site is located within habitat used by manatees (listed as endangered) and sea turtles (listed as endangered and threatened) although none were observed during staff's site inspection. Special Condition No. 12 requires the applicant to construct the project in accordance with the Standard Manatee and Sea Turtle Construction Conditions for In-water Work. This permit does not relieve the applicant from complying with all applicable rules and any other agencies' requirements if, in the future, endangered/threatened species or species of special concern are discovered on the site.

SPECIAL CONSIDERATIONS:

BISCAYNE BAY AQUATIC PRESERVE

The portion of the walkway that extends waterward of the seawall is located over and within the Biscayne Bay Aquatic Preserve (BBAP). Therefore, it is subject to review under Chapter 18-18, FAC. Because the project qualifies for a letter of consent authorization to use sovereignty submerged lands, a demonstration of hardship under the rule is not necessary. However, the applicant must demonstrate that the proposed activity is water dependent. The applicant provided information describing the proposed walkway as a structure that provides a transition from an existing water-dependent facility (marina to the south) to the park located to the north of the Women's Club property. Likewise, the walkway extends the park landside to the marina by providing pedestrian access between the two locations. Alternatives for locating the boardwalk totally outside the BBAP were determined not to be reasonable based on site constraints and requirements of the City's Master Plan. The present boardwalk design is a significant reduction in the area of encroachment into the preserve compared to the site plan discussed during the pre-application reviews. Those plans indicated a totally pile-supported concrete walkway consisting of a 13.5 ft wide portion extending approximately 2,619 sq ft (.06 acre) over the Preserve and 18 piles installed into the Preserve bottom. Considering the reduced footprint over the Preserve and minimal construction in the Preserve, the proposal is consistent with the intent of Chapter 18-18, FAC, to preserve the biological and aesthetic values of Biscayne Bay.

CERTIFICATION AND MAINTENANCE OF THE WATER MANAGEMENT SYSTEM:

It is suggested that the permittee retain the services of a Professional Engineer registered in the State of Florida for periodic observation of construction of the surface water management (SWM) system. This will facilitate the completion of construction completion certification Form #0881 which is required pursuant to Section 10 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, and Rule 40E-4.361(2), Florida Administrative Code (F.A.C.).

Pursuant to Chapter 40E-4 F.A.C., this permit may not be converted from the construction phase to the operation phase until certification of the SWM system is submitted to and accepted by this District. Rule 40E-4.321(7) F.A.C. states that failure to complete construction of the SWM system and obtain operation phase approval from the District within the permit duration shall require a new permit authorization unless a permit extension is granted.

For SWM systems permitted with an operating entity who is different from the permittee, it should be noted that until the permit is transferred to the operating entity pursuant to Rule 40E-1.6107, F.A.C., the permittee is liable for compliance with the terms of this permit.

The permittee is advised that the efficiency of a SWM system will normally decrease over time unless the system is periodically maintained. A significant reduction in flow capacity can usually be attributed to partial blockages of the conveyance system. Once flow capacity is compromised, flooding of the project may result. Maintenance of the SWM system is required to protect the public health, safety and the natural resources of the state. Therefore, the permittee must have periodic inspections of the SWM system performed to ensure performance for flood protection and water quality purposes. If deficiencies are found, it is the responsibility of the permittee to correct these deficiencies in a timely manner.

SOVEREIGN/SUBMERGED LANDS:

The portion of the project in or over sovereignty submerged lands includes approximately 594 square feet (0.01 acre) of the walkway extending over Biscayne Bay and an approximately 3 sq. ft area where the pilings will be driven into the submerged bottom. Proprietary authorization for these activities is approved under a letter of consent in accordance with Rule 18-21.005(1)(c)10, FAC.

RELATED CONCERNS:

Water Use Permit Status:

The applicant has indicated that the project does not require irrigation water or dewatering. This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

CERP:

The proposed project is not located within or adjacent to a Comprehensive Everglades Restoration Project component.

Potable Water Supplier:

Not required for this project.

Waste Water System/Supplier:

Not required for this project.

Right-Of-Way Permit Status:

A District Right-of-Way Permit is not required for this project.

DRI Status:

This project is not a DRI.

Historical/Archeological Resources:

No information has been received that indicates the presence of archaeological or historical resources in the project area or indicating that the project will have any effect upon significant historic properties listed, or eligible for listing in the National Register of Historic Places. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.

DEO/CZM Consistency Review:

The issuance of this permit constitutes a finding of consistency with the Florida Coastal Management Program.

Third Party Interest:

No third party has contacted the District with concerns about this application.

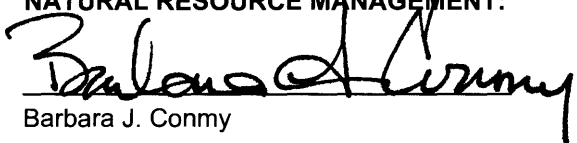
Enforcement:

There has been no enforcement activity associated with this application.

STAFF REVIEW:

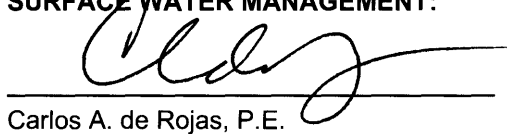
DIVISION APPROVAL:

NATURAL RESOURCE MANAGEMENT:


Barbara J. Conmy

DATE: 8/6/13

SURFACE WATER MANAGEMENT:

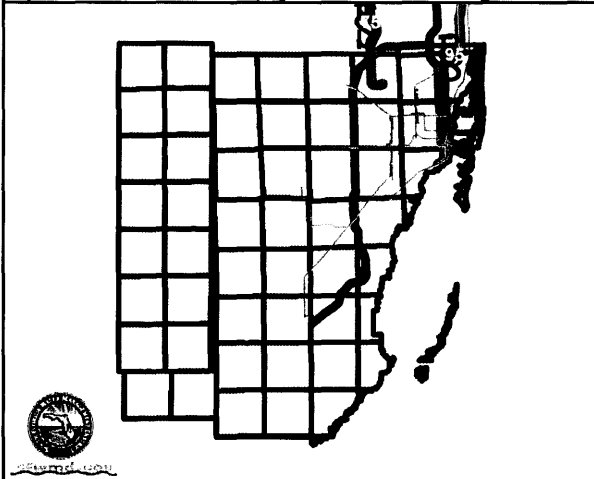
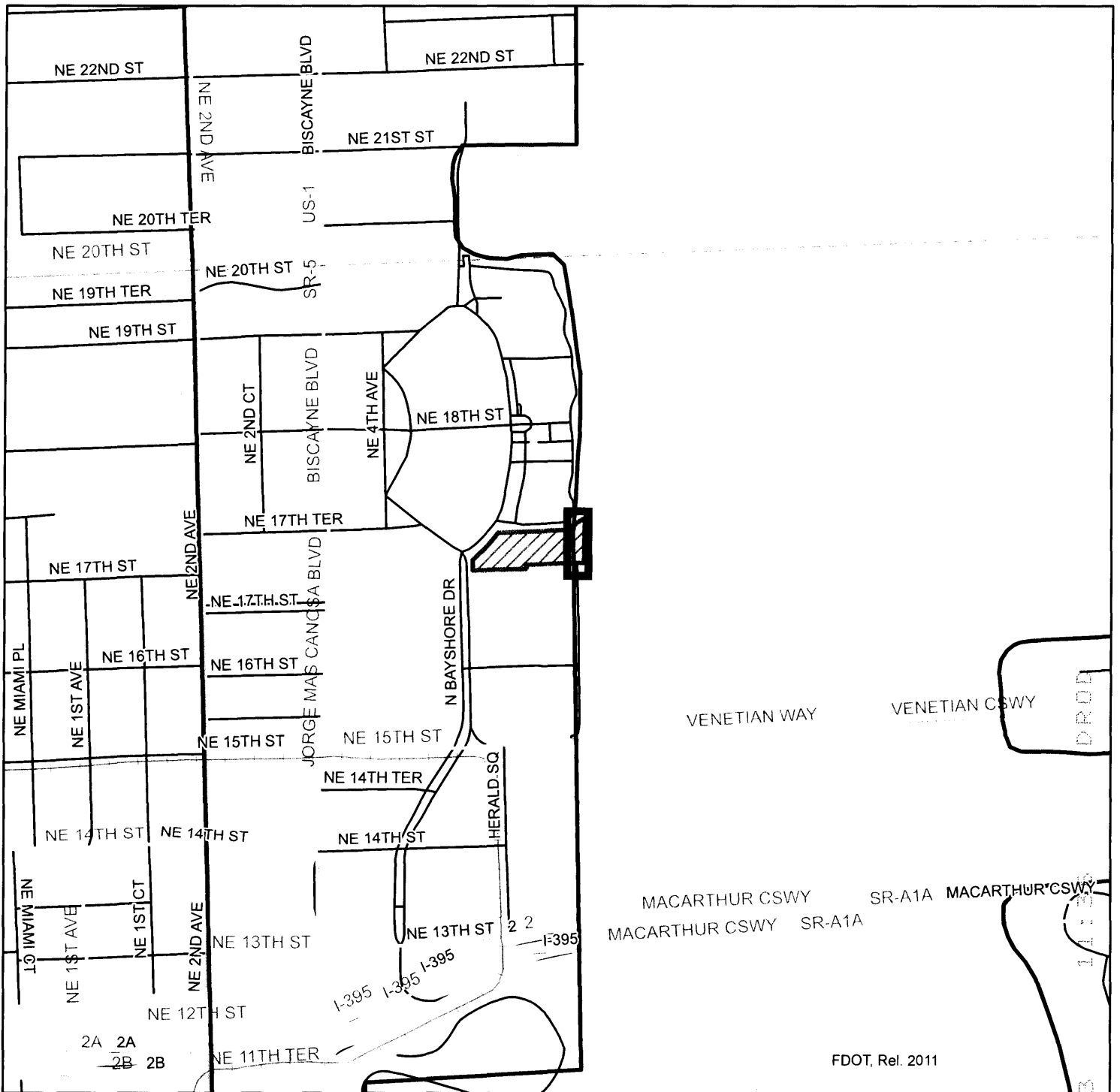

Carlos A. de Rojas, P.E.

DATE: 8/5/13

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Table of Contents for Staff Report Exhibits
Miami Woman's Club
Application No. 130426-5

- 1 Location Map
- 2 Plans
- 3 Seagrass Location



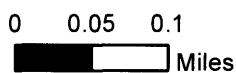
MIAMI-DADE COUNTY, FLORIDA

Legend

-  Miami Woman's Club
-  Boardwalk location

Sec 19 / Twp 53 / Rge 42

Project Name: MIAMI WOMAN'S CLUB BAYWALK



FDOT, Rel. 2011

11:33
 08/07/2013
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Commission:

Mayor

Tomas P. Regalado

Commissioner

Wifredo (Willy) Gort

Commissioner

Marc Sarnoff

Commissioner

Frank Carollo

Commissioner

Francis Suarez

Commissioner

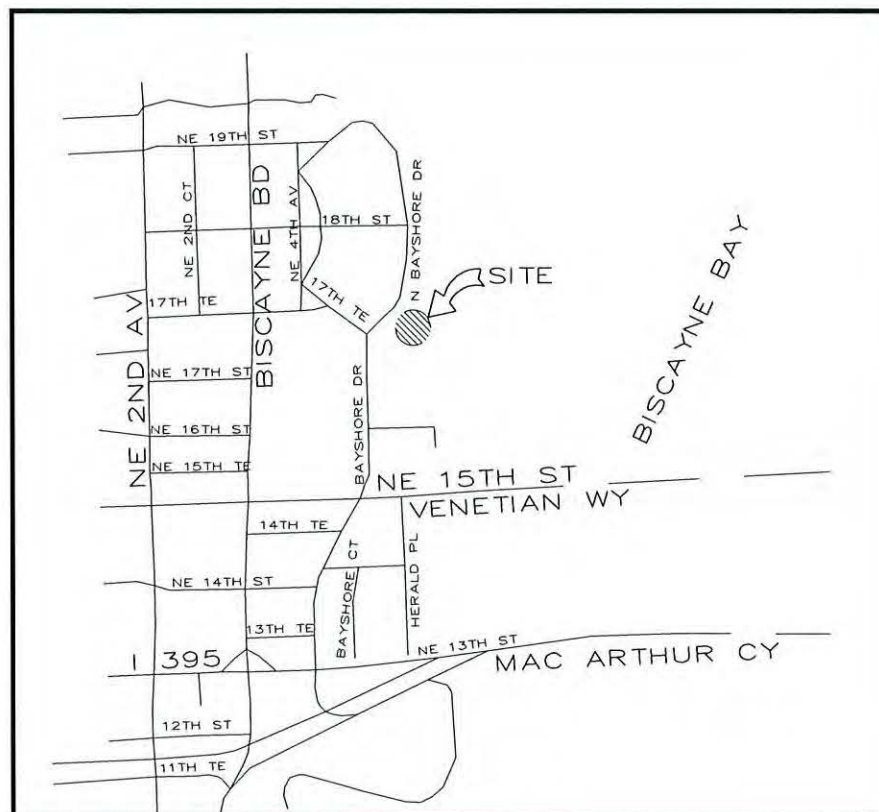
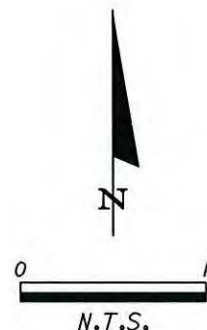
Michelle Spence Jones

City Manager

Johnny Martinez, P.E.

CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM

MARK SPANIOLI, P.E. DIRECTOR
PROJECT No. B-30731
MIAMI WOMAN'S CLUB
SEAWALL & BAYWALK
CONSTRUCTION PLANS



INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF QUANTITIES
3	GENERAL NOTES
4	ENGINEERING PLAN
5	AMMENITIES PLAN
6 & 7	ENGINEERING DETAILS
S-1	STRUCTURAL NOTES
S-2	KEY PLAN
S-3 to S-5	PLAN SHEETS
S-6 & S-7	SECTIONS & DETAILS
S-8	CONCRETE REPAIR DETAILS

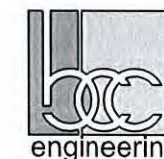
ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

Ricardo A. Ayala, P.E.
BCC engineering
7300 N Kendall Drive, Suite 400
Miami, Florida 33156
Phone: (305) 670-2350
Fax: (305) 670-2351

STRUCTURAL SHOP DRAWINGS TO BE SUBMITTED TO:

Steve Goldstein, P.E.
BCC engineering
7300 N Kendall Drive, Suite 400
Miami, Florida 33156
Phone: (305) 670-2350
Fax: (305) 670-2351

PLANS PREPARED BY:



7300 N Kendall Drive, Suite 400
Miami, Florida 33156
Phone: (305) 670-2350
Fax: (305) 670-2351
Certificate of Authorization No. 7184



NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED DUE TO REPRODUCTION.

ROADWAY PLANS
ENGINEER OF RECORD: RICARDO A. AYALA, P.E.

P.E. NO.: 69950

GOVERNING STANDARDS AND SPECIFICATIONS:
- FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2010,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2010,
AS AMENDED BY CONTRACT DOCUMENTS.
- CITY OF MIAMI ENGINEERING STANDARDS FOR
DESIGN AND CONSTRUCTION DATED DECEMBER 2010.

CITY OF MIAMI PROJECT MANAGER: ORLANDO MISAS

CITY OF MIAMI CONSTRUCTION MANAGER: ERIC RUSH, P.E.

SHEET NO.

1

ITEM	PAY ITEM	DESCRIPTION	UNITS	QUANTITY
1	101-1	MOBILIZATION	LS	1
2	104-10-3	SILT FENCE	LF	328
3	104-11	FLOATING TURBIDITY BARRIER	LF	175
4	104-18	INLET PROTECTION SYSTEM	EA	2
5	110-1-1	CLEARING AND GRUBBING	AC	0.084
6	120-6	EMBANKMENT (FILL TO REGRADE GREEN AREAS ALONG WALKWAY)	CY	6
7	425-2-101	HYDRO INTERNATIONAL - MODEL 4-FT DIAMETER FIRST DEFENSE	EA	1
8	425-10	YARD DRAIN - NYLOPLAST (8")	EA	13
9	425-10	DRAIN BASIN - NYLOPLAST (12")	EA	1
10		TRENCH DRAIN (ZURN Z-886 OR APPROVED EQUAL)	LF	8
11	430-175-112	PIPE CULV (OPT MA TL)(ROUND)(8") (ALL PIPE TO BE PVC)	LF	166
12	430-175-112	PIPE CULV (OPT MA TL)(ROUND)(10") (ALL PIPE TO BE HDPE)	LF	30
13	455-34-2	PRESTRESSED CONCRETE PILING, 14" SQ	LF	48
14	515-2-319	PEDESTRIAN RAILING	LF	140
15	520-2-4	CONCRETE CURB (TYPE "D")	LF	143
16	550-10-929	FENCING (ALUMINUM PICKET FENCE)	LF	150
17	570-1-2	PERFORMANCE TURF, SOD	SY	120
18	580-1-2	LANDSCAPE COMPLETE (CABBAGE PALM OR EQUAL)	EA	17
19		SEAWALL REPAIR	SF	150
20		RIVER ROCK	SF	510
21		CAST-IN-PLACE CONCRETE	CY	132
22	715-2-11	LIGHTING - CONDUIT UNDERGROUND	LF	450
23	715-14-32	LIGHTING - PULLBOX, INSTALL	EA	5
24	715-511-115	LIGHT POLE COMPLETE SPECIAL DESIGN (15' H), F&I	EA	3
25	721-75-1	BENCH (AS PER CITY OF MIAMI GREENWAY STANDARDS)	EA	4
26	721-74-1	TRASH RECEPTACLE (AS PER CITY OF MIAMI GREENWAY STANDARDS)	EA	2

PAY ITEM NOTES:

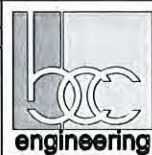
PAY ITEMS INCLUDES ESTIMATED QUANTITY CONTINGENT UPON FIELD CONDITIONS AND MAY BE INCREASED OR DECREASED AS DIRECTED BY THE ENGINEER.

CLEARING AND GRUBBING INCLUDES REMOVAL OF EXISTING PAVEMENT, MISCELLANEOUS CONCRETE (SEAWALL DEMOLITION), VEGETATION, TREES AND DEBRIS TO BE DISPOSED OF IN LEGAL AREAS PROVIDED BY THE CONTRACTOR. INCLUDES THE COST OF CLEANING-OUT ALL EXISTING DRAINAGE STRUCTURES WHICH ARE TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION.

425-2-101 THIS PAY ITEM SHALL INCLUDE FURNISHING AND INSTALLING COMPLETE HYDRODYNAMIC DEVICE AS SPECIFIED IN THE PLANS (CONTECH HYDRODYNAMIC SEPARATION SYSTEM - MODEL No. CDS2015). INSTALLATION OF HYDRODYNAMIC DEVICES SHALL COMPLY WITH THE MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS AND WITH FDOT SPECIFICATIONS, SECTION 425 FOR INSTALLATION OF MANHOLES.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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Certificate of Authorization No. 7184

CITY OF MIAMI	
CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

SUMMARY OF QUANTITIES
SHEET NO. 2

GENERAL NOTES

1. B.M. DATA AND ELEVATION ARE CITY OF MIAMI DATUM.
2. ANY BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED AND PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. IF ANY MONUMENT IS IN DANGER OF DAMAGE, THE PROJECT ENGINEER SHALL NOTIFY THE CITY OF MIAMI SURVEYOR, DEPARTMENT OF PUBLIC WORKS, (305) 416-1200.
3. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND CITY MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED, OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED-LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO CITY OF MIAMI SURVEYOR, DEPARTMENT OF PUBLIC WORKS A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.
4. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT AND ANY OTHER STATE OR LOCAL AGENCY WITH JURISDICTION. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION, ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
5. MIAMI-DADE COUNTY WATER AND SEWER DEPARTMENT REQUIRES THAT ACCESS TO ALL WATER AND SEWER VALVES, SANITARY MANHOLES, AND OTHER CONTROL MECHANISMS BE MAINTAINED THROUGHOUT CONSTRUCTION IN THE EVENT OF AN EMERGENCY TO ENSURE THE PUBLIC HEALTH AND SAFETY. COVERING VALVE BOXES AND MANHOLES CAN BE CONSIDERED UNAUTHORIZED OBSTRUCTION OF AND TAMPERING WITH DEPARTMENT UTILITIES. CITY OF MIAMI CONTRACTOR TO COORDINATE AND WORK WITH MDWASD TO ADJUST, RELOCATE AND ISNTALL ANY MDWASD FACILITY REQUIRING WORK TO PERFORMED DURING CONSTRUCTION. FOR MANHOLE AND VALVES, CONTACT THE CONSTRUCTION MANAGEMENT SECTION (MIGUEL PICHARDO) AT (786) 268-5170. FOR THE ADJUSTMENT OF WATER METERS, CONTACT THE METER SHOP AT (786) 268-5469. FOR ANY FIRE HYDRANTS THAT ARE DAMAGED OR BUMPED DURING CONSTRUCTION, CONTACT THE MDWASD HYDRANT SHOP AT (786) 552-4926 BEFORE CASTING CONCRETE FOR THE SIDEWALK. IN THE EVENT OF A WATER OR SEWER EMERGENCY, CONTACT MIAMI DADE WATER AND SEWER DEPARTMENT EMERGENCY HOTLINE AT (786) 552-8901 THIS LINE IS OPEN 24 HOURS, 7 DAYS A WEEK.
6. CLEARING AND GRUBBING, GRADING AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE R/W SHALL BE INCLUDED IN RELATED BID ITEMS.
7. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS TO ENGINNER OF RECORD FOR ALL ITEMS USED IN THIS PROJECT.
8. WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.
9. EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE NOTED.
10. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF RECORD OF ANY OBVIOUS STRUCTURAL DEFICIENCIES
11. THERE SHALL BE NO MORE THAN THREE LATERAL DRAINAGE INSTALLATIONS WITHOUT BACKFILLING. BACKFILLING OF LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF EXCAVATION.
12. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH THE EXISTING PAVEMENT.
13. WHERE CONNECTIONS TO EXISTING SIDEWALKS AND DRIVEWAYS ARE NOT INDICATED ON PLANS, PROPER CONNECTIONS ARE TO BE MADE AS DIRECTED BY THE ENGINEER OF RECORD. DROP CURB AND DRIVEWAY CONNECTIONS SHALL BE PROVIDED FOR ACCESS TO ALL PRIVATE PROPERTIES ADJACENT TO THE PROJECT. PAYMENT SHALL BE INCLUDED IN THE COST OF RELATED BID ITEMS.
14. CONTRACTOR TO INSTALL PREFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING
15. PROPOSED ASPHALT PAVEMENT SHALL MEET APPLICABLE CITY OF MIAMI SPECIFICATIONS AND 2010 EDITION OF THE FDOT SPECIFICATIONS.
16. ALL CONCRETE SHALL DEVELOP A MINIMUM OF 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE NOTED.
17. ALL PIPES ENTERING PROPOSED STRUCTURES SHALL BE FLUSH WITH THE INSIDE FACE OF THE WALL AND FINISHED IN A NEAT AND WORKMANLIKE MANNER.
18. THE CONTRACTOR SHALL ASSIST THE CITY WITH THE HANDLING OF PUBLIC INFORMATION MATERIALS, INCLUDING CITIZEN NOTIFICATION LETTERS AND PROJECT CONSTRUCTION SIGNS, PRIOR TO THE START OF EACH SIGNIFICANT PHASE OF CONSTRUCTION. COST OF THIS WORK SHALL BE INCLUDED IN THE MAINTENANCE OF TRAFFIC BID ITEM.
19. FOR TYPICAL TRENCH BAKCFILL FOR PROPOSED PIPES REFER TO CITY OF MIAMI STANDARD DETAIL MISC. 35-86-38.
20. CONTRACTOR SHALL AVOID DAMAGE TO EXISTING DOCK AND SEA WALL. ANY DAMAGE TO PRIVATE PROPERTY SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE OWNER.
21. ADDITIONAL WORK AS A RESULT OF THIS PROJECT IN, OVER AND UPON TIDAL WATERS OF MIAMI -DADE COUNTY REQUIRES A CLASS I PERMIT.



R E V I S I O N S					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

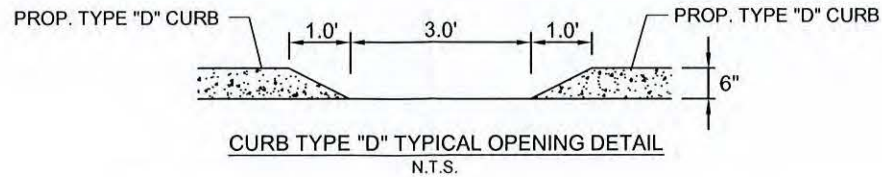


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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

GENERAL NOTES
SHEET NO. 3

LEGEND	
	PROPOSED SAFETY BUFFER ZONE
	PROPOSED CONCRETE BAYWALK
	PROPOSED SOD REGRADING
	PROPOSED CONCRETE HEADER
	PROPOSED NYLOPLAST DRAIN
	PROPOSED ADS DOME GRATES
	EXISTING TOPOGRAPHIC GRADE
	PROPOSED CONCRETE GRADE
	PROPOSED SOD GRADE
	PROPOSED PLANTER AREA
	FLOATING TURBIDITY BARRIER
	SILT FENCE



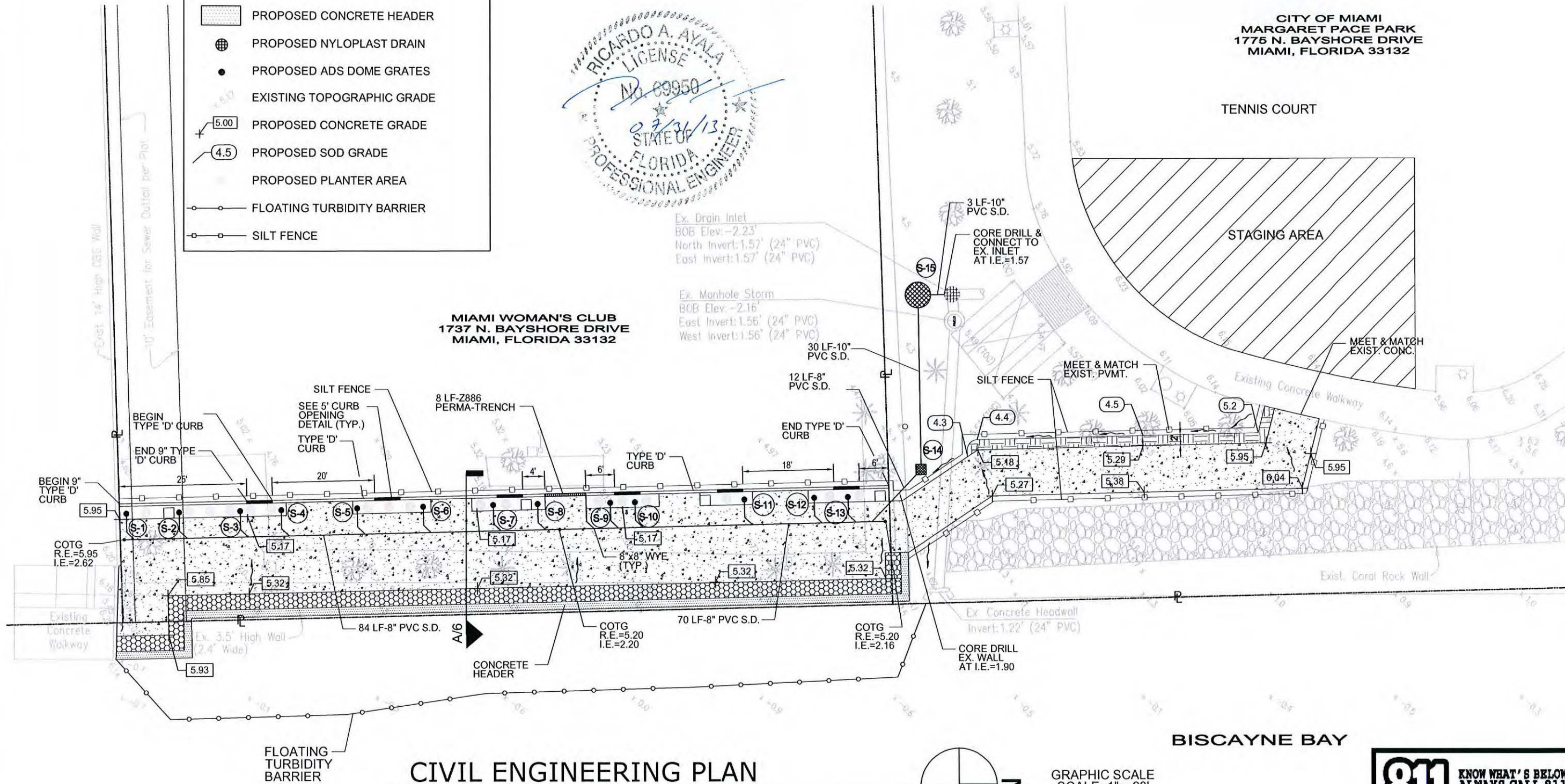
TOTAL PROJECT AREA	4033 SF
TOTAL PROJECT AREA ABOVE WATER	594 SF
TOTAL PROJECT AREA LANDSIDE	3439 SF

CITY OF MIAMI
MARGARET PACE PARK
1775 N. BAYSHORE DRIVE
MIAMI, FLORIDA 33132

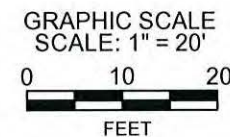
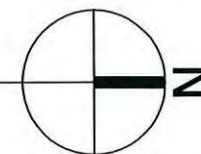


Ex. Drain Inlet
BOB Elev: -2.23'
North Invert: 1.57' (24" PVC)
East Invert: 1.57' (24" PVC)

Ex. Manhole Storm
BOB Elev: -2.16'
East Invert: 1.56' (24" PVC)
West Invert: 1.56' (24" PVC)



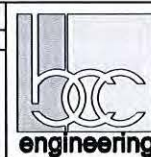
CIVIL ENGINEERING PLAN
SCALE: 1" = 20'



BISCAYNE BAY



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION







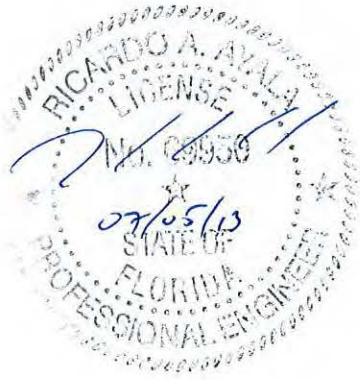
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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	PROJECT ID B-30731

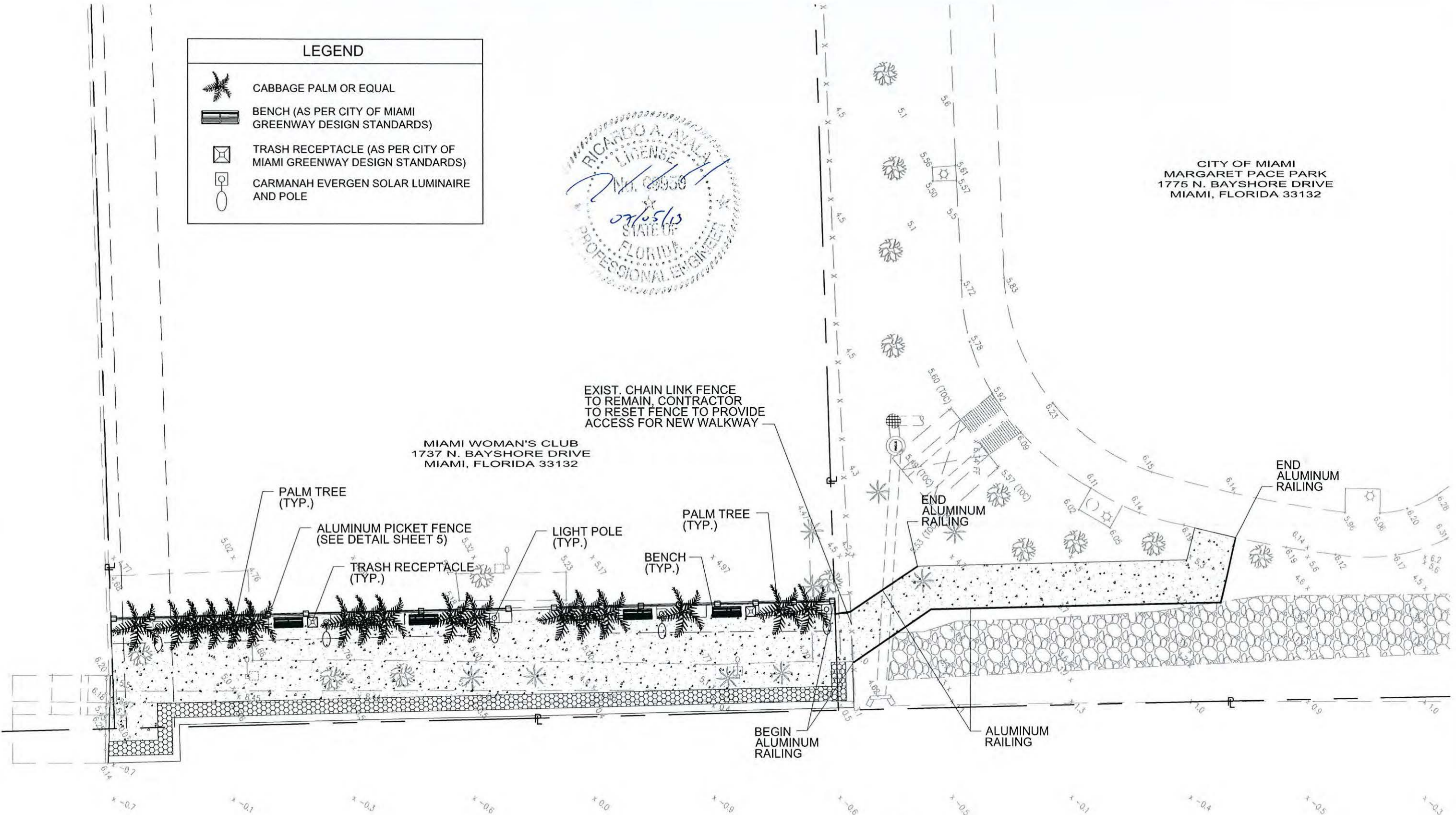
ENGINEERING PLAN

SHEET NO. 4

LEGEND	
	CABBAGE PALM OR EQUAL
	BENCH (AS PER CITY OF MIAMI GREENWAY DESIGN STANDARDS)
	TRASH RECEPTACLE (AS PER CITY OF MIAMI GREENWAY DESIGN STANDARDS)
	CARMANAH EVERGEN SOLAR LUMINAIRE AND POLE



CITY OF MIAMI
 MARGARET PACE PARK
 1775 N. BAYSHORE DRIVE
 MIAMI, FLORIDA 33132



MIAMI WOMAN'S CLUB
 1737 N. BAYSHORE DRIVE
 MIAMI, FLORIDA 33132

EXIST. CHAIN LINK FENCE
 TO REMAIN, CONTRACTOR
 TO RESET FENCE TO PROVIDE
 ACCESS FOR NEW WALKWAY

PALM TREE
 (TYP.)

ALUMINUM PICKET FENCE
 (SEE DETAIL SHEET 5)

TRASH RECEPTACLE
 (TYP.)

LIGHT POLE
 (TYP.)

PALM TREE
 (TYP.)

BENCH
 (TYP.)

END ALUMINUM
 RAILING

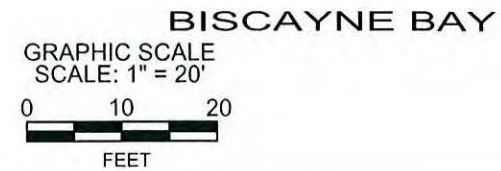
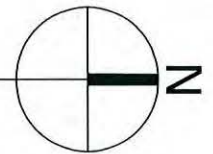
END ALUMINUM
 RAILING

BEGIN ALUMINUM
 RAILING

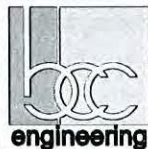
ALUMINUM
 RAILING

AMMENITIES PLAN

SCALE: 1" = 20'



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

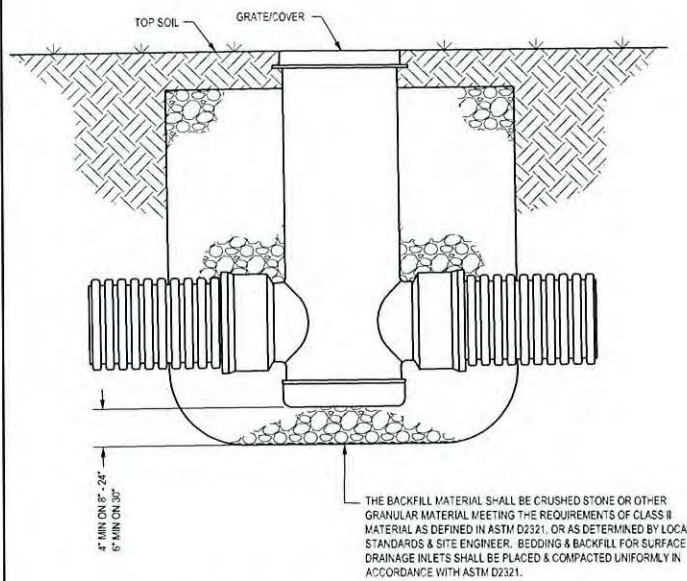


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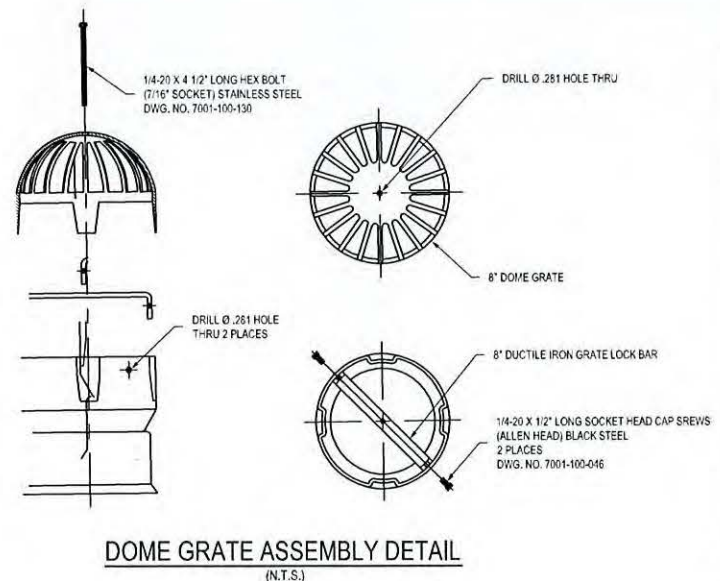
CITY OF MIAMI	
CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

AMMENITIES PLAN

SHEET NO.
5



NYLOPLAST 12" DRAIN BASIN (N.T.S.)



DOME GRATE ASSEMBLY DETAIL (N.T.S.)

NO.	TYPE & INSIDE DIMENSION	GRATE/RIM ELEVATION	PIPE INVERT ELEVATION				BOTTOM SLAB TOP ELEV.	PRB	REMARKS:
			N	S	E	W			
S-1	8" YARD DRAIN	5.90			3.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-2	8" YARD DRAIN	5.30			2.80				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-3	8" YARD DRAIN	5.00			2.50				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-4	8" YARD DRAIN	5.00			2.50				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-5	8" YARD DRAIN	5.00			2.50				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-6	8" YARD DRAIN	5.00			2.50				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-7	8" YARD DRAIN	5.00			2.50				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-8	8" YARD DRAIN	5.00			2.50				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-9	8" YARD DRAIN	5.00			2.50				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-10	8" YARD DRAIN	5.00			2.50				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-11	8" YARD DRAIN	5.00			2.50				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-12	8" YARD DRAIN	5.00			2.50				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-13	8" YARD DRAIN	5.00			2.50				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION.
S-14	12" DRAIN BASIN	4.00		1.85		1.85			NYLOPLAST DRAIN BASIN W/ SOLID DUCTILE IRON COVER, HINGED DESIGN & LOCKING OPTION.
S-15	4-FT DIAMETER FIRST DEFENSE	5.07	1.57		1.57		(-) 4.83		HYDRO INTERNATIONAL - MODEL 4-FT DIAMETER FIRST DEFENSE

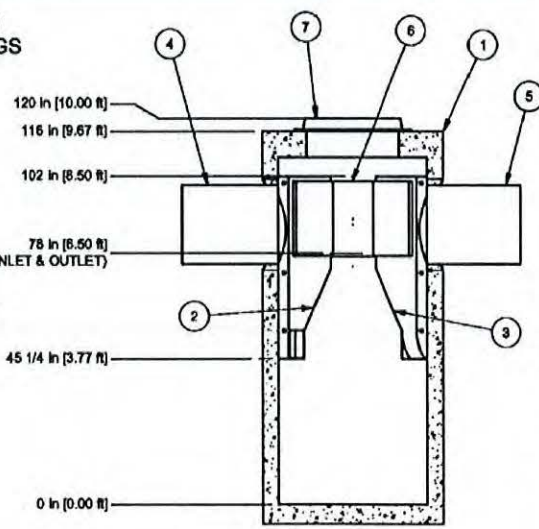
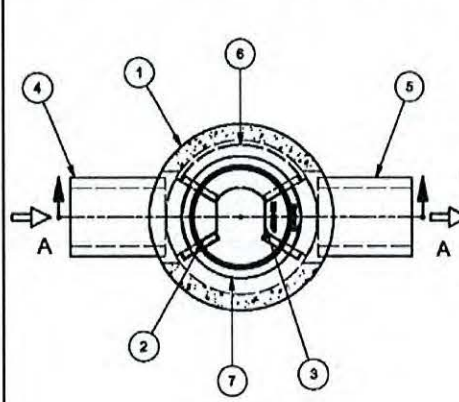
THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321, OR AS DETERMINED BY LOCAL STANDARDS & SITE ENGINEER. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

NOTES:
ALUMINUM PICKET FENCE TO BE WITH ELECTROSTATIC PAINT FINISH GREEN.

ALUMINUM PICKET FENCE DETAIL (N.T.S.)



NOT FOR CONSTRUCTION - CONTACT HYDRO INTERNATIONAL FOR SITE SPECIFIC DRAWINGS



SECTION A-A

- Notes**
1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
 2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING FIRST DEFENSE MANHOLE.
 3. CONTRACTOR TO CONFIRM RIM, PIPE INVERTS, PIPE DIA. AND PIPE ORIENTATION PRIOR TO RELEASING UNIT TO FABRICATION.

REV	BY	DATE	DESCRIPTION
			FIRST ISSUE

REVISION HISTORY
Date: 11/1/2011
Scale: 5/16" = 1'-0"

Title
4-FT DIAMETER FIRST DEFENSE
GENERAL ARRANGEMENT

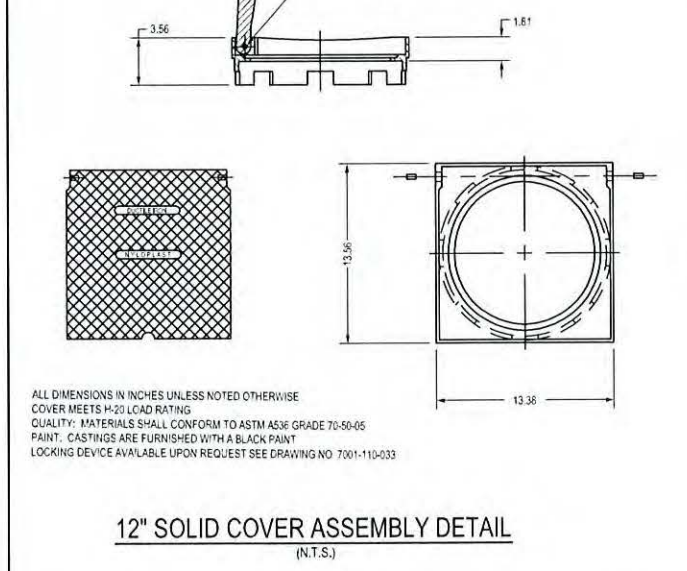
Hydro International
Stormwater Solutions
94 Hutchins Drive
Portland, Maine 04102
Tel: (207) 756-6200
Fax: (207) 756-6212
stormwaterinquiry@hydro-int.com

CAD Ref: F4GA
Project No.
Drawing No. F4GA Rev.

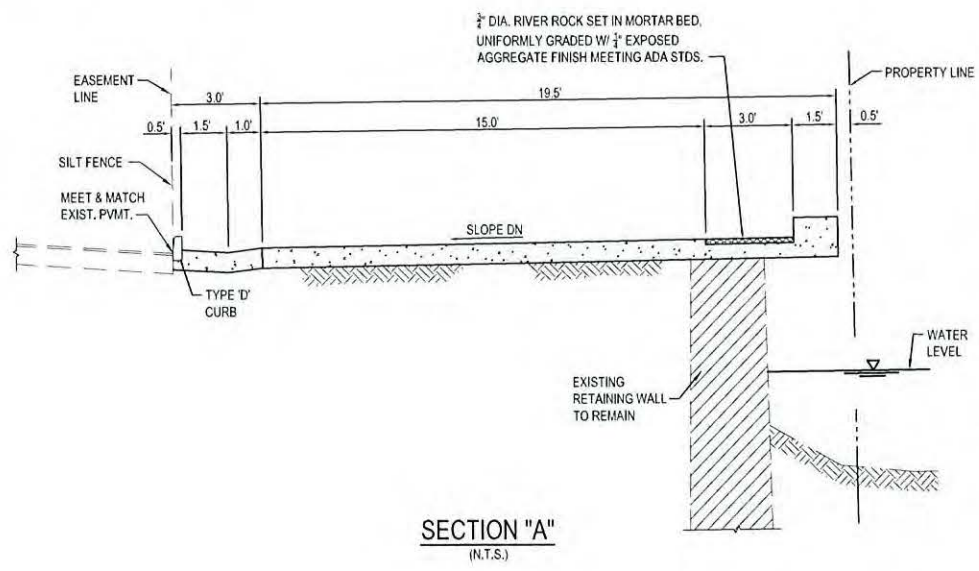
ITEM	SIZE (in)	DESCRIPTION
1	48	I.D. CONCRETE MANHOLE
2		INLET CHUTE (W/ FLOATABLES TRAP)
3		OUTLET CHUTE
4	18	INLET PIPE (BY OTHERS)
5	18	OUTLET PIPE (BY OTHERS)
6		HIGH FLOW BYPASS
7	30	FRAME AND COVER (OR GRATE)

- CAPACITIES:**
1. PEAK HYDRAULIC FLOW: 6.0 cfs (170 l/s)
 2. TREATMENT FLOW: 0.7 cfs (20 l/s)
 3. SEDIMENT STORAGE CAPACITY: 1 cu. yd. (0.76 cu. m.)
 4. OIL STORAGE CAPACITY: 180 gal. (681 liters)
- ADDITIONAL DESIGN INFORMATION:**
1. MAXIMUM INLET/OUTLET PIPE DIAMETERS: 18 in.
 2. MAXIMUM NUMBER OF INLET PIPES: 2
 3. MINIMUM ANGLE BETWEEN PIPES: 90 DEGREES

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12" SOLID COVER ASSEMBLY DETAIL (N.T.S.)



SECTION "A" (N.T.S.)

ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE
COVER MEETS H-20 LOAD RATING
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-033

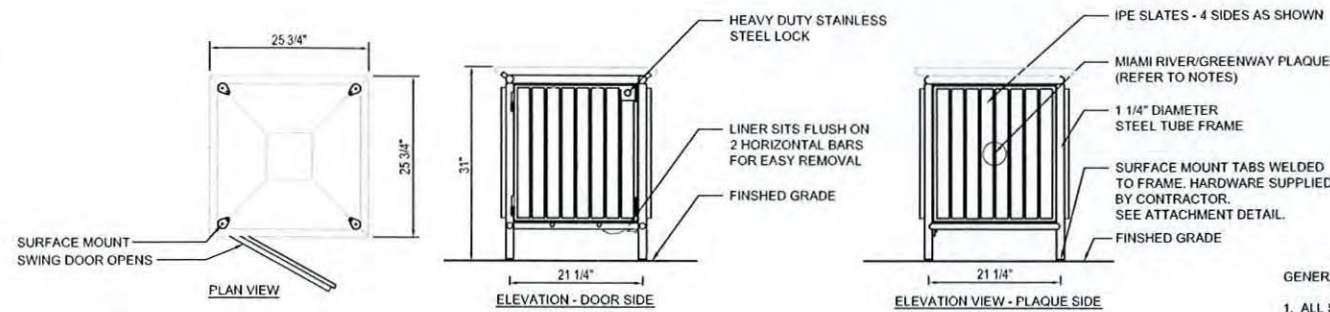
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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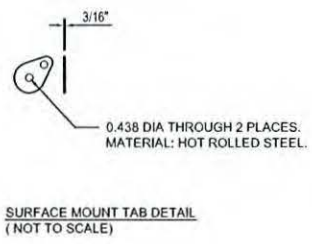
CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
PROJECT NAME: MIAMI WOMAN'S CLUB SEAWALL & BAYWALK
PROJECT ID: B-30731

ENGINEERING DETAILS

SHEET NO. 6

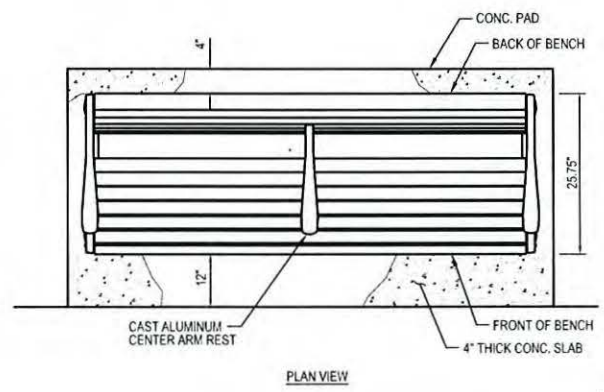


NOTES:
 MANUFACTURER: LANDSCAPE FORMS, INC.
 VENDOR: GAP ARCHITECTURAL PRODUCTS (407) 645-2854.
 LITTER MODEL: PLAINWELL WASHINGTON SQUARE
 LITTER RECEPTACLE WITH PLAQUE, IPE SLATS, HEAVY DUTY STAINLESS STEEL LOCK, SM TABS SURFACE MOUNT
 STYLE: SIDE OPENING
 MOUNTING: SURFACE-MOUNTING
 LINER COLOR: BLACK
 FINISH: PANGARD II® POLYESTER POWDERCOAT
 FINISH COLOR: BLACK
 ANCHORS: STAINLESS STEEL
NOTES:
 1. ALL HARDWARE SUPPLIED BY CONTRACTOR TO BE STAINLESS STEEL.
 2. ANCHORS TO BE 3/8" DIA., STUD TYPE EXPANSION ANCHOR, MIN. OF 2-1/2" LONG MOUNTING HOLES ARE 7/16" DIA.
 3. LINER TO HAVE (5) 1/2" DIAMETER HOLES TO ALLOW FOR DRAINAGE.
 4. CONTRACTOR TO MANUFACTURE AND SUPPLY MIAMI RIVERWALK/GREENWAY PLAQUE AS PER "MIAMI RIVER REGULATORY DESIGN STANDARDS", CENTER ON PANEL OPPOSITE OF DOOR. PLAQUE INSTALLED BY LANDSCAPE FORMS, INC.

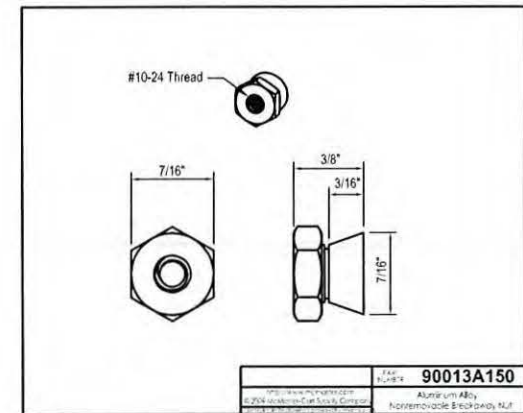


GENERAL AMENITY FURNISHING NOTES:
 1. ALL SITE FURNISHINGS SHALL MEET OR EXCEED ASTM, BIFMA OR INDUSTRY STANDARDS.
 2. SITE FURNISHING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 3. INSTALL SITE FURNISHINGS WITH TAMPER-PROOF BOLTS OR SIMILAR AS SPECIFIED BY MANUFACTURER.
 4. REFER TO MANUFACTURER'S PRODUCT SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
 5. ALL SITE FURNISHINGS TO BE FIELD LOCATED.
 6. MANUFACTURER NOTE: CONTRACTOR TO COORDINATE AND MANUFACTURER MIAMI RIVER/GREENWAY LOGO AS PER "MIAMI REGULATORY DESIGN STANDARDS," TO BE MOUNTED ON BENCH AND TRASH RECEPTACLE.
 7. SUBMIT FOR REVIEW CUT SHEETS FOR ALL SITE FURNISHINGS PRIOR TO INSTALLATION. CUT SHEETS TO INCLUDE INSTALLATION METHODS OF ATTACHMENT TO CONCRETE SURFACE.

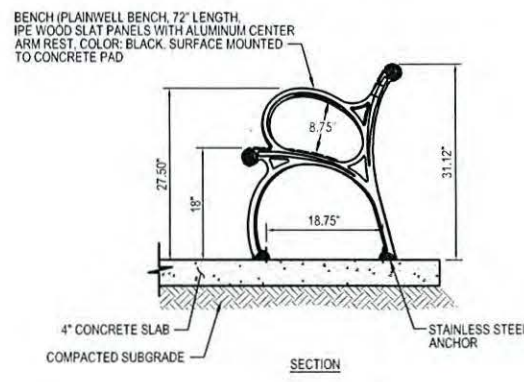
LITTER RECEPTACLE - SURFACE MOUNTED
(N.T.S.)



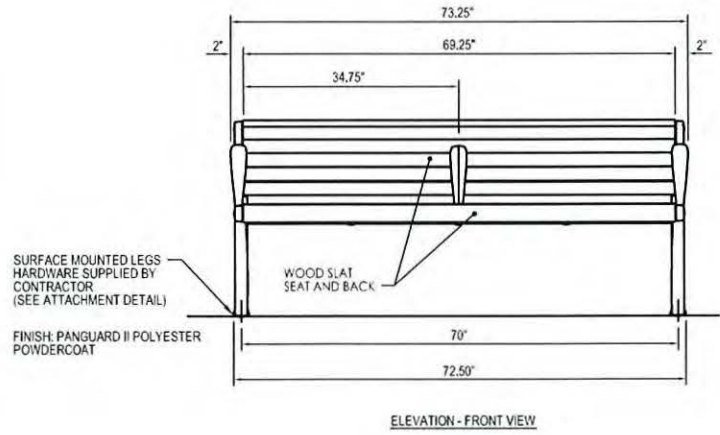
NOTES:
 1. ALL HARDWARE SUPPLIED BY CONTRACTOR TO BE STAINLESS STEEL.
 2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
 3. SURFACE MOUNT ANCHORING TO BE USED WITH CORROSION-RESISTANT HARDWARE W/ 13/32" DIA. HOLES WITH COUNTERBORE PROVIDED FOR SOCKET HEAD CAP SCREWS.



BENCH ATTACHMENT DETAIL
(N.T.S.)

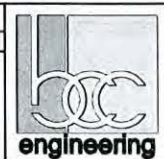


BENCH DETAIL
(N.T.S.)



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

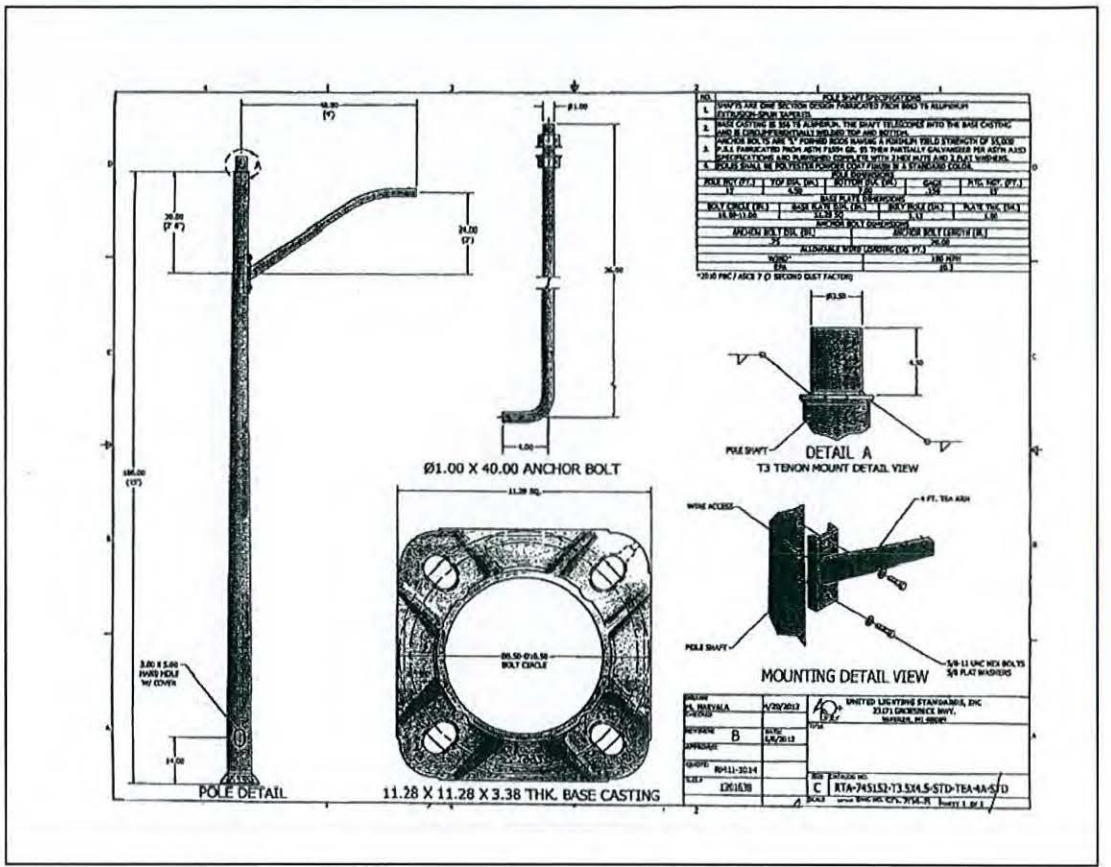


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CITY OF MIAMI
CAPITAL IMPROVEMENTS PROGRAM
 PROJECT NAME: MIAMI WOMAN'S CLUB SEAWALL & BAYWALK
 PROJECT ID: B-30731

ENGINEERING DETAILS

SHEET NO.
 7



GENERAL LIGHTING NOTES:

- GOVERNING STANDARDS AND SPECIFICATIONS ARE: THE DESIGN STANDARDS OF 2013, THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE 2005 NATIONAL ELECTRICAL CODE, NATIONAL ELECTRICAL SAFETY CODE OR LATER EDITION AND LOCAL CODES WHICH EXCEEDS THESE SPECIFICATIONS.
- GROUND RODS ARE TO BE LOCATED AT EACH PULL BOX ASSOCIATED WITH A LIGHTING POLE. THE MIAMI-DADE PUBLIC WORKS STANDARDS REQUIRES A 5/8" X 20' COPPER CLAD STEEL GROUNDING ELECTRODE.
- ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMICALLY WELDED AS PER IFC SPECIFICATIONS SECTION 715-11 AND MIAMI-DADE COUNTY MAINTENANCE AGENCY NEW SPECIFICATIONS.
- LIGHT POLES SHALL BE GROUNDING WITH INSULATED GREEN THW CONDUCTORS RUNNING INSIDE THE CONDUIT.
- THE CONTRACTOR SHALL CHECK THE CONTINUITY OF GROUNDING CONDUCTOR USING MEGGER OR EQUAL LOW RESISTANCE/HIGH CAPACITY OHMMETER CALIBRATED WITHIN THE PAST 180 DAYS. A NEUTRAL/GROUND LOOP RESISTANCE OF MORE THAN 0.5 OHMS-PER THOUSAND FEET SHALL BE CONSIDERED INADEQUATE.
- PULL BOX COVER SHALL BE BOLTED TO THE PULL BOX USING A TAMPER PROOF NUT.
- THE CONTRACTOR SHALL CONSTRUCT CONCRETE SLABS AROUND ALL PULL BOXES LOCATED IN UNPAVED/GRASS AREA. SEE INDEX 17500 FOR DETAILS AND NOTES.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- LUMINAIRE SHALL BE A 40 WATT CARMANAH EVERGEN SOLAR LED SERIES 1710 WITH A MOUNTING HEIGHT OF 15 FT.



GENERAL NOTES

- THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE, 2010 EDITION. THIS CODE PRESCRIBES WHICH EDITION OF EACH REFERENCED STANDARD APPLIES TO THIS PROJECT.
- TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL DRAWINGS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING BUILDING CODE.
- CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.
- THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE CIVIL DOCUMENTS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.
- DETAILS LABELED "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYS IN AT EACH LOCATION. QUESTIONS REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ENGINEER.
- CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS DURING BIDDING OR CONSTRUCTION SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE ENGINEER WILL RESOLVE THE CONDITION AND ISSUE A WRITTEN CLARIFICATION.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS AND DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS; USE ONLY PRINTED DIMENSIONS. REPORT ANY DISCREPANCIES IN WRITING TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD.
- THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.
- THE STRUCTURE IS DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED. PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING. WHEREVER THE CONTRACTOR IS UNSURE OF THESE REQUIREMENTS, THE CONTRACTOR SHALL RETAIN A FLORIDA LICENSED ENGINEER TO DESIGN AND INSPECT THE TEMPORARY BRACING AND STABILITY OF THE STRUCTURE.
- DESIGN SUPERIMPOSED LOADS:

OCCUPANCY	LIVE LOAD	DEAD LOAD
WALKWAY	100 PSF	25 PSF (RIVER ROCK ADJACENT TO CURB)

DESIGN WIND LOADS

GOVERNING CODE	ASCE 7-10
BASIC WIND SPEED	V = 175 MPH
RISK CATEGORY	II
DIRECTIONALITY FACTOR	KD = 0.85
EXPOSURE - MWFRS	D
- COMPONENTS AND CLADDING	D
INTERNAL PRESSURE COEFFICIENT	GCPI = 0.55
MEAN ROOF HEIGHT	5 FEET

SHOP DRAWINGS AND OTHER SUBMITTALS

- SUBMIT SPECIFIC COMPONENTS, SUCH AS BEAMS, PLANKS, ETC., IN A SINGLE PACKAGE.
- ON FIRST SUBMITTAL, CLEARLY FLAG AND CLOUD ALL DIFFERENCES FROM THE CONTRACT DOCUMENTS. ON RESUBMITTALS, FLAG AND CLOUD ALL CHANGES AND ADDITIONS TO PREVIOUS SUBMITTAL; ONLY CLOUDED ITEMS WILL BE REVIEWED.
- SUBMITTALS FOR SPECIAL STRUCTURAL, LOAD-CARRYING ITEMS THAT ARE REQUIRED BY CODES OR STANDARDS TO RESIST FORCES MUST BE PREPARED BY, OR UNDER THE DIRECT SUPERVISION OF, A DELEGATED ENGINEER. EXAMPLES INCLUDE PRECAST, PRESTRESSED CONCRETE PLANK AND PRECAST, PRESTRESSED CONCRETE PILES.
- A DELEGATED ENGINEER IS DEFINED AS A FLORIDA LICENSED ENGINEER WHO SPECIALIZES IN AND UNDERTAKES THE DESIGN OF STRUCTURAL COMPONENTS OR STRUCTURAL SYSTEMS INCLUDED IN A SPECIFIC SUBMITTAL PREPARED FOR THIS PROJECT AND IS AN EMPLOYEE OR OFFICER OF, OR CONSULTANT TO, THE CONTRACTOR OR FABRICATOR RESPONSIBLE FOR THE SUBMITTAL. THE DELEGATED ENGINEER SHALL SIGN, SEAL AND DATE THE SUBMITTAL, INCLUDING CALCULATIONS AND DRAWINGS.
- THE TRADE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT THE JOB SITES, FOR TOLERANCES, CLEARANCES, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF THE WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL REVIEW AND APPROVE SUBMITTALS AND SHALL SIGN AND DATE EACH DRAWING PRIOR TO SUBMITTING TO THE ARCHITECT. THIS APPROVAL IS TO CONFIRM THAT THE SUBMITTAL IS COMPLETE, COMPLIES WITH THE SUBMITTAL REQUIREMENTS AND IS COORDINATED WITH FIELD DIMENSIONS, OTHER TRADES, ERECTION SEQUENCING AND CONSTRUCTABILITY.
- THE STRUCTURAL ENGINEER REVIEWS SUBMITTALS TO CONFIRM THAT THE SUBMITTAL IS IN GENERAL CONFORMANCE WITH THE DESIGN CONCEPT PRESENTED IN THE CONTRACT DOCUMENTS. QUANTITIES AND DIMENSIONS ARE NOT CHECKED. NOTATIONS ON SUBMITTALS DO NOT AUTHORIZE CHANGES TO THE CONTRACT SUM. CHECKING OF THE SUBMITTAL BY THE STRUCTURAL ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS AND FROM ERRORS OR OMISSIONS IN THE SUBMITTAL.
- IN ADDITION TO THE ABOVE, THE STRUCTURAL ENGINEER'S REVIEW OF DELEGATED ENGINEER SUBMITTALS IS LIMITED TO VERIFYING THAT THE SPECIFIED STRUCTURAL SUBMITTAL HAS BEEN FURNISHED, SIGNED AND SEALED BY THE DELEGATED ENGINEER AND THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND USED THE SPECIFIED STRUCTURAL CRITERIA. NO DETAILED CHECK OF CALCULATIONS WILL BE MADE. THE DELEGATED ENGINEER IS SOLELY RESPONSIBLE FOR HIS/HER DESIGN, INCLUDING BUT NOT LIMITED TO THE ACCURACY OF HIS/HER CALCULATIONS AND COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.

DRIVEN PILES

- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL INVESTIGATION, DATA, AND RECOMMENDATIONS IN REPORT #21172 BY GEOSOL DATED JANUARY 11, 2012.
 - STRUCTURAL DESIGN OF PILES SHALL BE BY A DELEGATED ENGINEER IN ACCORDANCE WITH FLORIDA BUILDING CODE SECTION 1825 AND ACI 543R-12.
 - USE THE FOLLOWING PRECAST PRESTRESSED CONCRETE PILES:
- | PILE SIZE | MIN. LONGITUDINAL STRANDS | BEARING CAPACITY | LATERAL CAPACITY | MAX. CASTING LENGTH |
|-----------|---------------------------|------------------|------------------|---------------------|
| 14x14 | 4-7/16" | 15 TONS | 2 TONS | 30' |
- USE ASTM A-416, 7 WIRE STRANDS, CONFINED WITH NO. 5 GAGE SPIRAL TIES WITH EACH END HAVING 5 TURNS AT 1" PITCH, 16 TURNS AT 3" PITCH AND THE INTERIOR TURNS AT 8" PITCH.

- CONCRETE STRENGTH SHALL BE MINIMUM 3000 PSI AT RELEASE AND MINIMUM 5000 PSI AT TIME OF DRIVING.
- INSTALL PILES IN ACCORDANCE WITH SECTION 455.B OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- PILE HAMMER AND ASSOCIATED EQUIPMENT SHALL BE LOCATED LANDWARD OF EXISTING RETAINING WALL.
- CENTER SINGLE PILES UNDER BEAMS. PLACE ALL PILES WITHIN 3" OF SPECIFIED LOCATION AND 2% OF PLUMBNESS.
- PROVIDE A SURVEY OF AS-BUILT PILE LOCATIONS. REFERENCE ALL PILES TO THEIR LOCATION SPECIFIED ON THE STRUCTURAL DRAWINGS AND FLAG ALL PILES WHICH EXCEED ALLOWABLE TOLERANCE OR ARE DAMAGED. SUBMIT SURVEY AT LEAST 48 HOURS PRIOR TO POURING AFFECTED BEAMS.

EXCAVATION, BACKFILL AND DEWATERING

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS. DO NOT EXCAVATE WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROPERLY PROTECTED AGAINST SETTLEMENT.
- DO NOT BACKFILL AGAINST WALLS UNTIL 7 DAYS AFTER THE WALLS ARE BRACED BY THE STRUCTURE OR ARE TEMPORARILY BRACED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ALL ACCUMULATED WATER IN A MANNER THAT DOES NOT INCONVENIENCE OR DAMAGE THE WORK.

SLABS ON GRADE

- REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION MORE THAN 12" BELOW BOTTOM OF SLAB.
- ABOVE SUBGRADE, USE FILL CONTAINING NOT MORE THAN 10% PASSING #200 SIEVE AND MAXIMUM 1 INCH DIAMETER. COMPACT TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D-1557. EACH LAYER OF FILL SHALL NOT EXCEED 6" LOOSE THICKNESS. COMPACT PRIOR TO PLACEMENT OF THE NEXT LAYER.
- FILL PLACEMENT AND COMPACTION SHALL BE MONITORED AND ACCEPTED BY THE TESTING AGENCY. TAKE A MINIMUM OF TWO FIELD DENSITY TESTS (ASTM D-1556 OR D-2922). THE TESTING AGENCY SHALL RANDOMLY SELECT TEST LOCATIONS.
- DO NOT USE ANY POLYETHYLENE SHEETING BELOW EXTERIOR CONCRETE SLABS.
- USE WELDED WIRE REINFORCEMENT SUPPLIED IN FLAT SHEETS ONLY. USE CHAIRS TO SUPPORT WIRE FABRIC IN THE CENTER OF SLAB.
- PROVIDE CRACK CONTROL JOINTS AT 10 FEET MAXIMUM TO LIMIT AREAS BETWEEN JOINTS TO 100 SQ. FT. IN ALL FLOATING SLABS ON GRADE.

REINFORCED CONCRETE

- COMPLY WITH ACI 301-10 AND ACI 318-08.
 - PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH IN 28 DAYS AS FOLLOWS:
- | ELEMENT | STRENGTH |
|------------------------|--|
| FOOTINGS | 4,000 PSI |
| WALLS | 4,000 PSI |
| ELEVATED SLABS & BEAMS | 5,000 PSI MAX. W/C=0.40 MAX. CHLORIDE ION CONTENT=0.15 |
| SLABS ON GRADE | 4,000 PSI |

ELEVATED SLAB INCLUDES BACKUP SPAN CAST ON GRADE.

- USE NORMAL WEIGHT CONCRETE FOR ALL STRUCTURAL MEMBERS.
 - PROVIDE ASTM A-615 GRADE 60 REINFORCING STEEL. REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE, WITH APPROPRIATE BAR SUPPORTS AND SPACERS. LAP CONTINUOUS REINFORCING 48 BAR DIA. LAP BOTTOM STEEL OVER SUPPORTS AND TOP STEEL AT MIDSPAN (U.C.N.). HOOK DISCONTINUOUS ENDS OF ALL TOP BARS. PROVIDE COVER OVER REINFORCING AS FOLLOWS:
- | ELEMENT | BOTTOM | TOP | SIDES |
|------------------------|--------|--------|--------|
| FOOTINGS | 3" | 2" | 3" |
| ELEVATED SLABS & BEAMS | 1-1/2" | 1-1/2" | 1-1/2" |
| SLABS ON GRADE | 3" | 2" | 2" |
| WALLS RETAINING FILL | - | - | 2" |

- WHERE SPECIFIED, PROVIDE PLAIN, COLD-DRAWN ELECTRICALLY-WELDED WIRE REINFORCEMENT CONFORMING TO ASTM A-185. SUPPLY IN FLAT SHEETS ONLY. LAP SPlice ONE CROSS WIRE SPACING PLUS TWO INCHES.
- PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI 318, SECTION 6.4. PROVIDE KEYWAYS AND ADEQUATE DOWELS. SUBMIT DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND DIRECTION OF POUR FOR REVIEW.
- PROVIDE 3/4" CHAMFER FOR ALL EXPOSED CORNERS.
- PROVIDE REINFORCING STEEL PLACER WITH A SET OF STRUCTURAL DRAWINGS FOR FIELD REFERENCE. INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL DRAWINGS.

STRUCTURAL PRECAST CONCRETE

- THE STRUCTURAL DRAWINGS SHOW THE INTENT AND CONFIGURATION OF THE PRECAST CONCRETE FRAMING. THE PRECAST FABRICATOR SHALL RETAIN A DELEGATED ENGINEER RESPONSIBLE FOR THE DESIGN AND DETAILING OF ALL PRECAST CONCRETE ELEMENTS, CONNECTIONS AND BRACING, INCLUDING TEMPORARY BRACING.

DEMOLITION

- SAWCUT PORTION OF EXISTING RETAINING WALL TO BE REMOVED. PROVIDE NETTING ON SEAWARD SIDE OF WALL TO PREVENT DEBRIS FROM FALLING INTO BAY.
- AT ALL LOCATIONS WHERE THE DEMOLITION OF A CONCRETE MEMBER LEAVES THE ENDS OF REINFORCING STEEL EXPOSED, CHIP CONCRETE AROUND THE STEEL TO A DEPTH OF 1" CUT OFF REINFORCING STEEL 1/2" BELOW THE CONCRETE SURFACE AND FILL THE CAVITY FLUSH WITH A CEMENTITIOUS REPAIR MORTAR.
- REMOVE COMPLETELY FROM THE SITE AND LEGALLY DISPOSE OF ALL DEBRIS GENERATED BY THE DEMOLITION WORK.

EXPANSION ANCHORS

- USE WEDGE-TYPE EXPANSION ANCHORS SUCH AS THE HILTI KWIK BOLT II, ITW RAMSET RED HEAD TRUBOLT WEDGE, POWERS RAWL POWER-STUD, SIMPSON STRONG-TIE WEDGE-ALL OR ACCEPTED EQUIVALENT. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.
- CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A 1/4" DIAMETER PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.

CHEMICAL ADHESIVE FOR ANCHORING REINFORCING BARS, THREADED BARS AND ANCHOR BOLTS

- USE AN EPOXY, ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS THE HILTI HIT HY150, ITW RAMSET/RED HEAD EPCON A7 OR C6 INJECTION SYSTEM, POWERS RAWL POWER-FAST SYSTEM, SIMPSON STRONG-TIE AT OR ET, ALLIED FASTENER ALLIED GOLD A-1000, OR ACCEPTED EQUIVALENT. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.
- CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A 1/4" DIAMETER PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR APPROPRIATE DRILL SIZE. THOROUGHLY CLEAN HOLE INCLUDING REMOVAL OF DUST PRIOR TO FILLING WITH EPOXY.
- PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.
- THREADED RODS ARE A-36 GALVANIZED STEEL, U.O.N.

STRUCTURAL SHEET LIST:

S-1	GENERAL NOTES
S-2	KEY PLAN
S-3 to S-5	PLAN SHEETS
S-6 & S-7	SECTIONS & DETAILS
S-8	CONCRETE REPAIR DETAILS

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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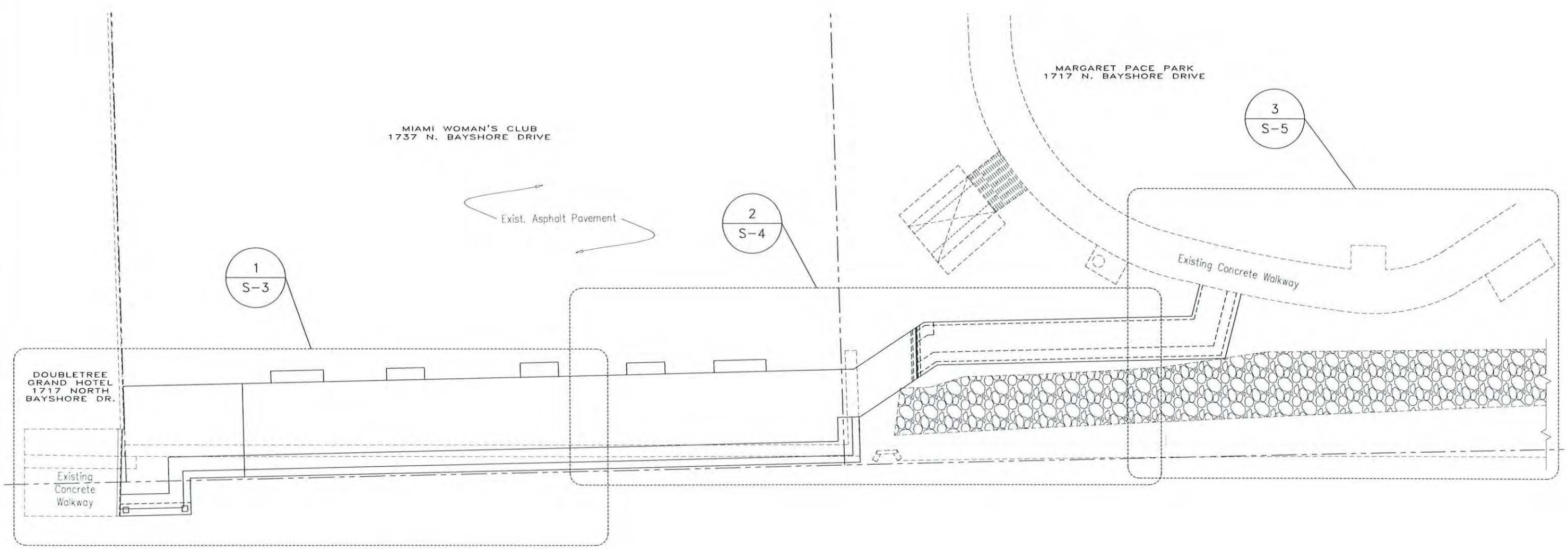
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CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

STRUCTURAL NOTES

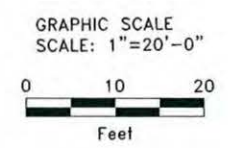
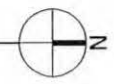
SHEET NO.
S-1





BISCAYNE BAY

KEY PLAN
SCALE: 1" = 20'-0"



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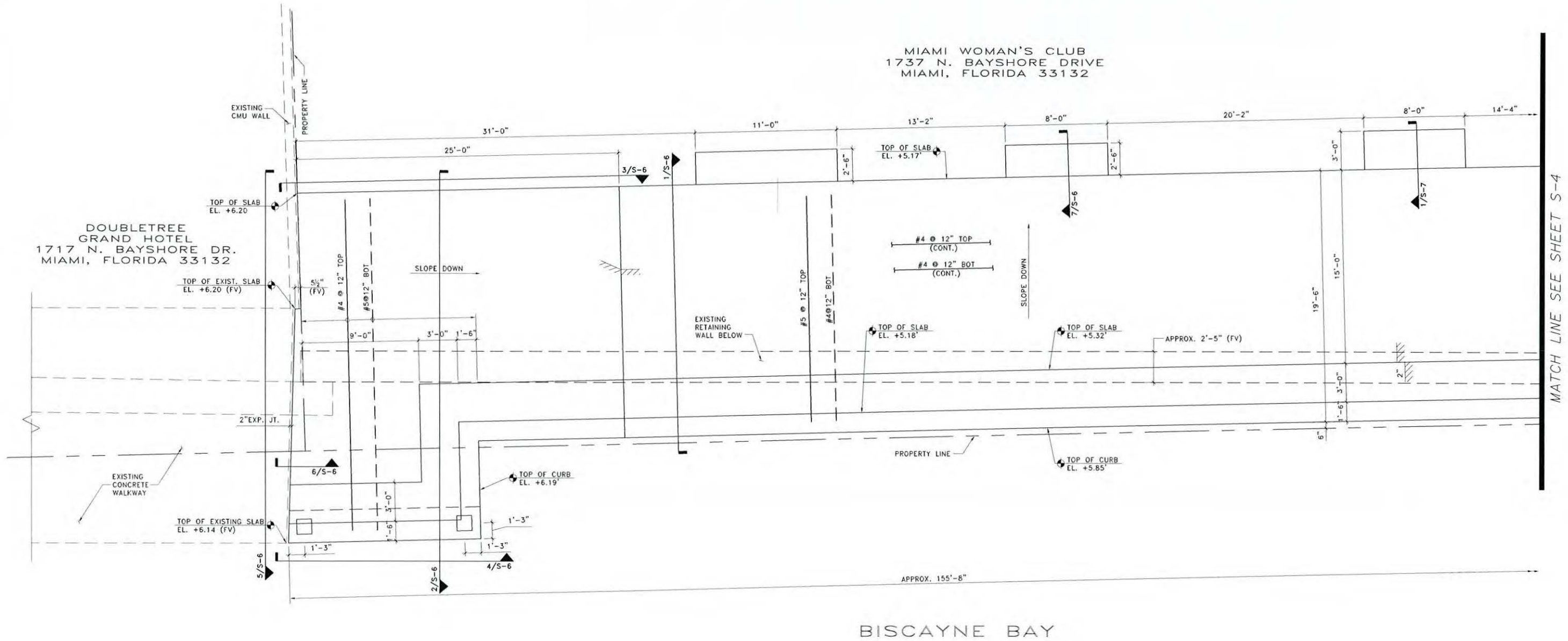
CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	PROJECT ID B-30731

KEY PLAN

SHEET NO.
S-2

MIAMI WOMAN'S CLUB
1737 N. BAYSHORE DRIVE
MIAMI, FLORIDA 33132

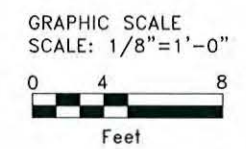
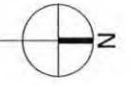
DOUBLETREE
GRAND HOTEL
1717 N. BAYSHORE DR.
MIAMI, FLORIDA 33132



MATCH LINE SEE SHEET S-4

BISCAYNE BAY

1 PLAN No. 1
SCALE: 1/8" = 1'-0"



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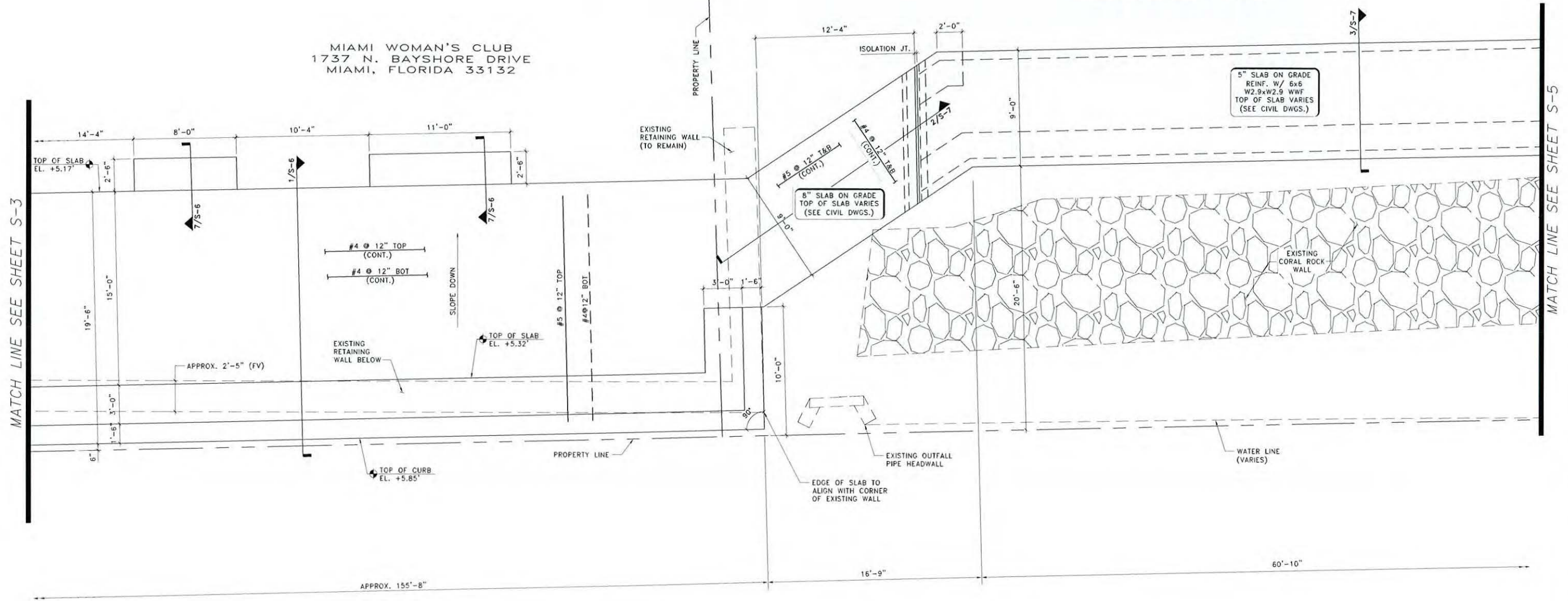
PROJECT NAME MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	PROJECT ID B-30731
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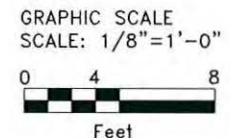
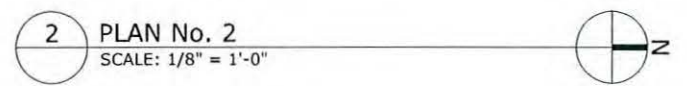
SHEET NO.
S-3

MARGARET PACE PARK
1775 N. BAYSHORE DRIVE
MIAMI, FLORIDA 33132

MIAMI WOMAN'S CLUB
1737 N. BAYSHORE DRIVE
MIAMI, FLORIDA 33132



BISCAYNE BAY



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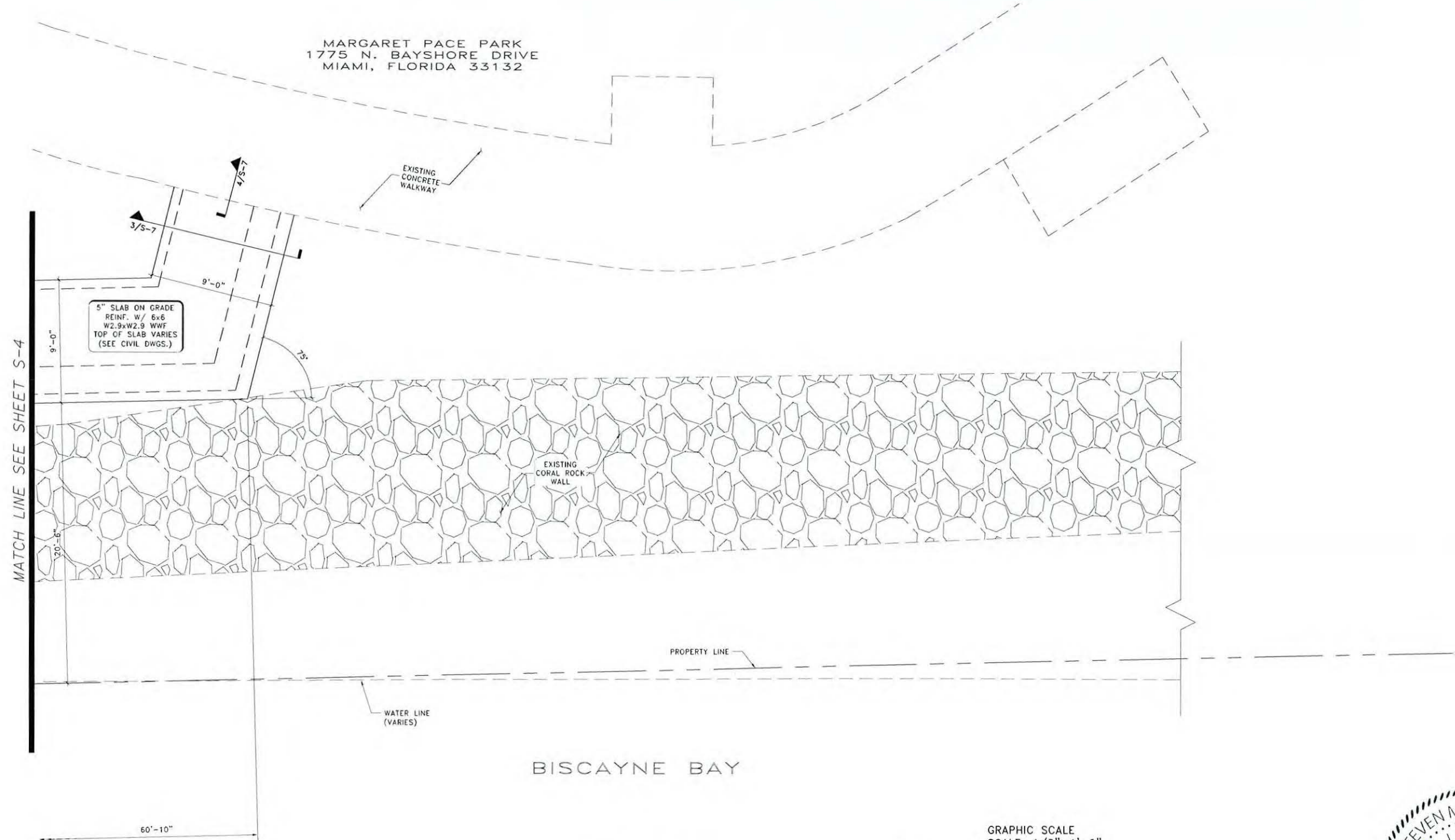
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 PROJECT ID: B-30731

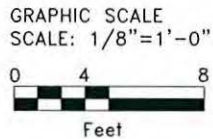
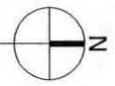
PLAN No. 2

SHEET NO.
S-4

MARGARET PACE PARK
1775 N. BAYSHORE DRIVE
MIAMI, FLORIDA 33132



3 PLAN No. 3
SCALE: 1/8" = 1'-0"



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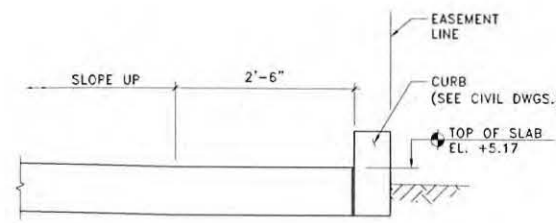


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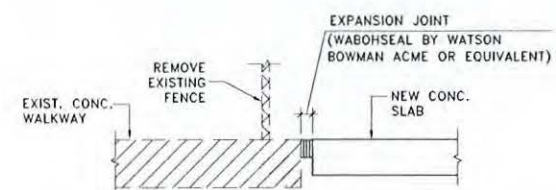
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PROJECT NAME MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	PROJECT ID B-30731

PLAN No. 3

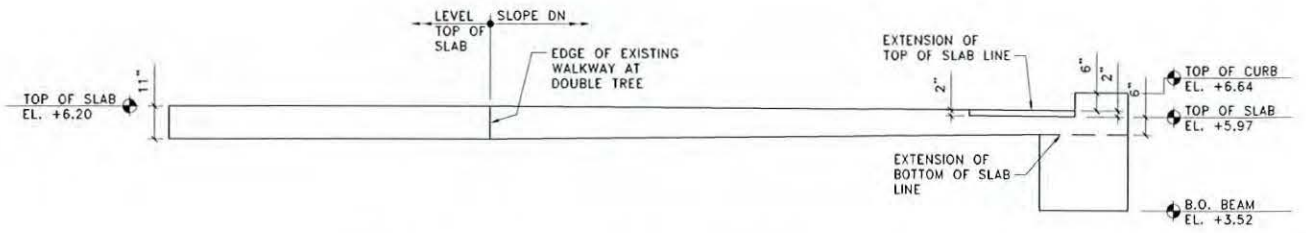
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S-5



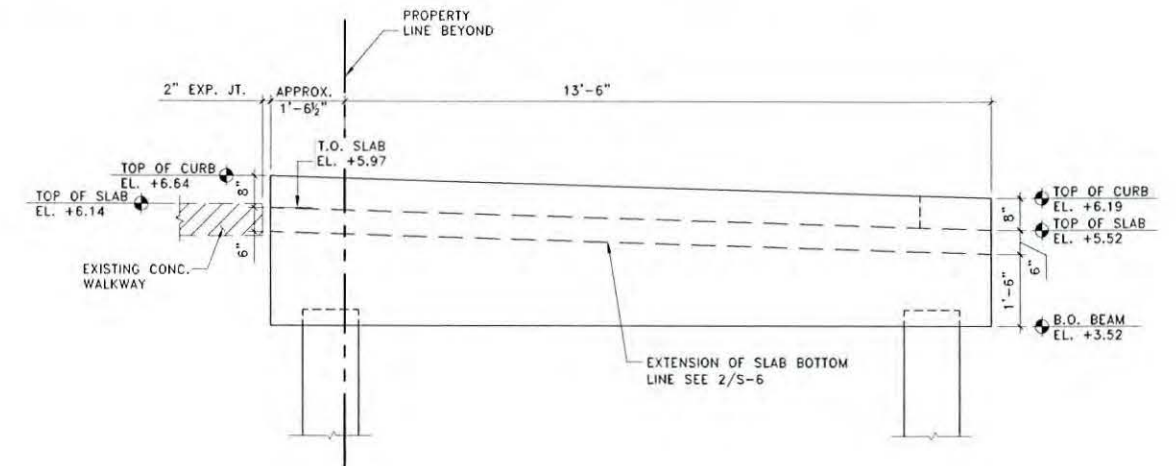
7 SECTION AT BENCH/TRASH RECEPTACLE SLAB
SCALE: 3/4" = 1'-0"



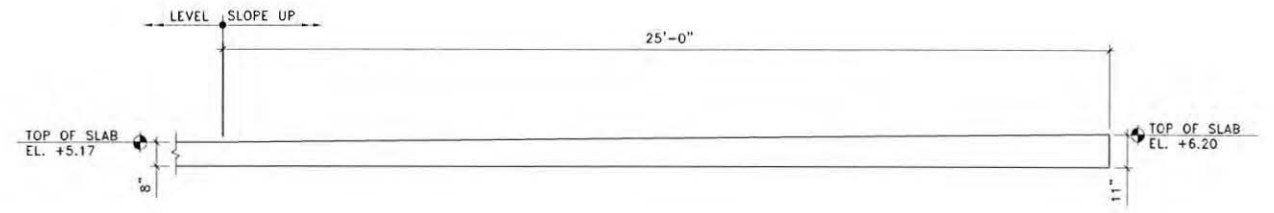
6 SECTION AT EXPANSION JOINT AT DOUBLETREE
SCALE: 3/4" = 1'-0"



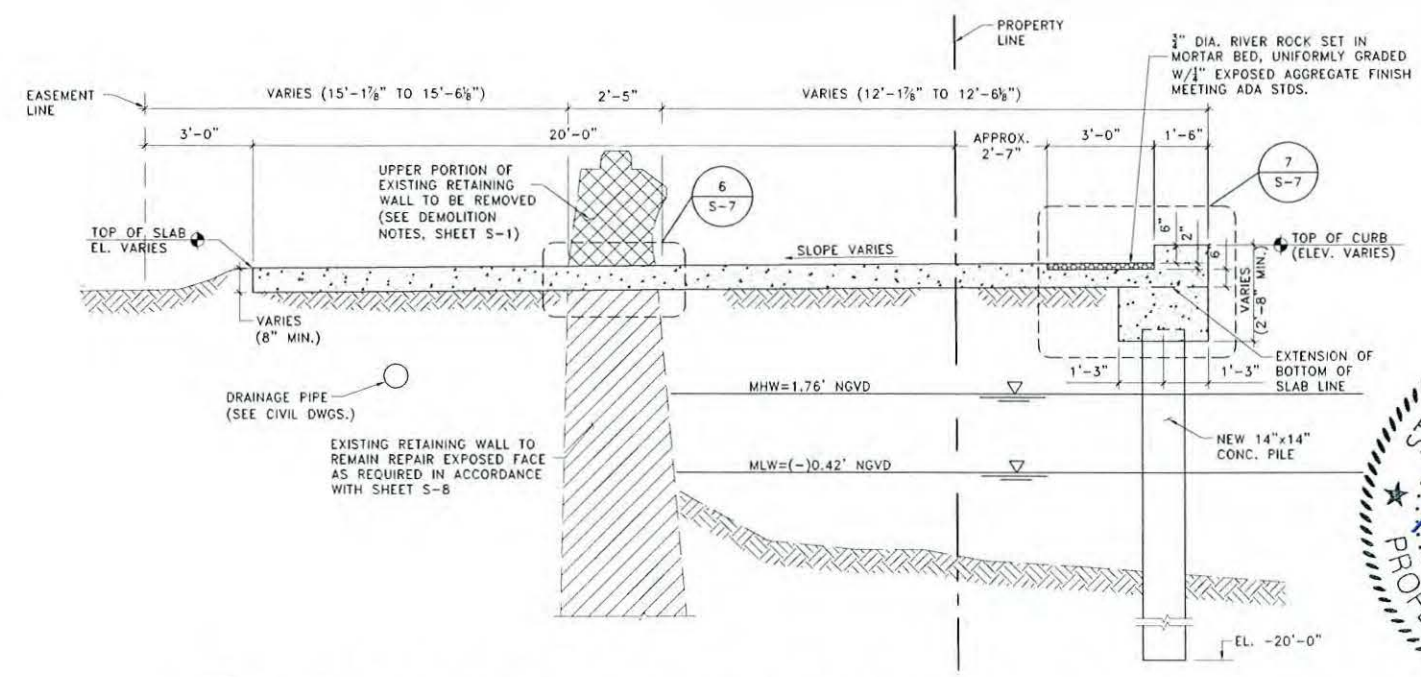
5 ELEVATION AT SOUTH WALKWAY EDGE
SCALE: 3/8" = 1'-0"



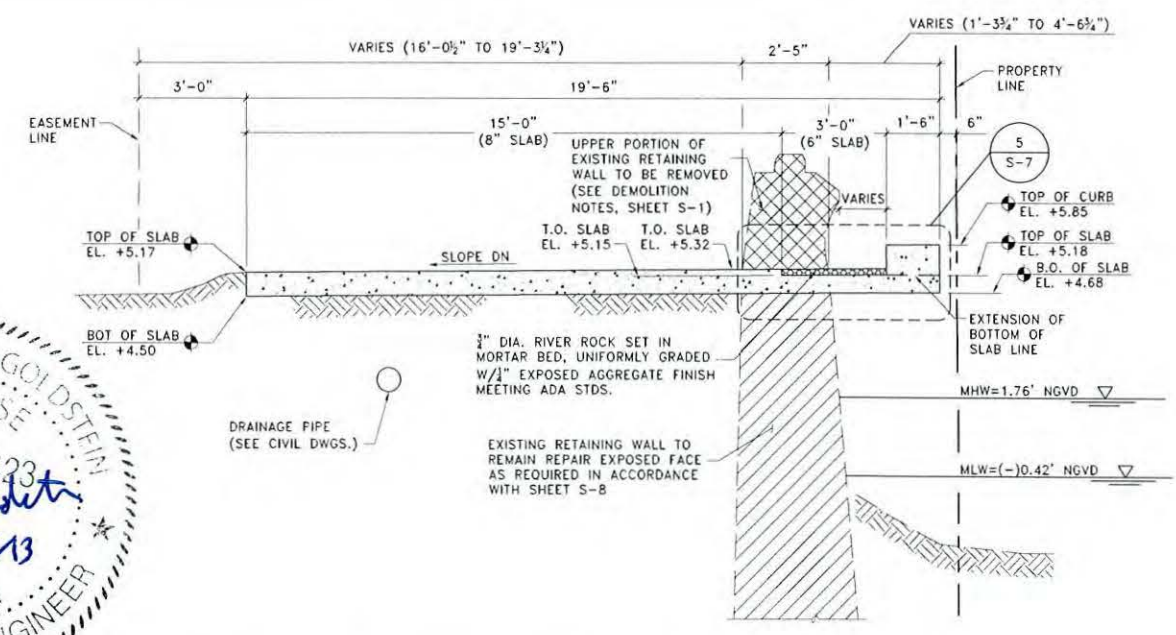
4 ELEVATION AT EAST WALKWAY EDGE
SCALE: 1/2" = 1'-0"



3 ELEVATION AT WEST WALKWAY EDGE
SCALE: 3/8" = 1'-0"



2 SECTION THROUGH WALKWAY TRANSITION AT DOUBLETREE/WOMAN'S CLUB
SCALE: 3/8" = 1'-0"



1 SECTION THROUGH WALKWAY AT MIAMI WOMAN'S CLUB
SCALE: 3/8" = 1'-0"

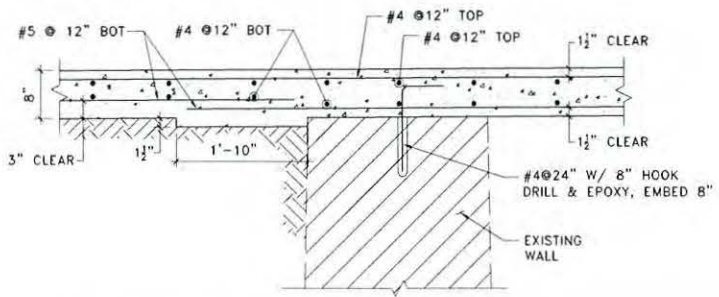


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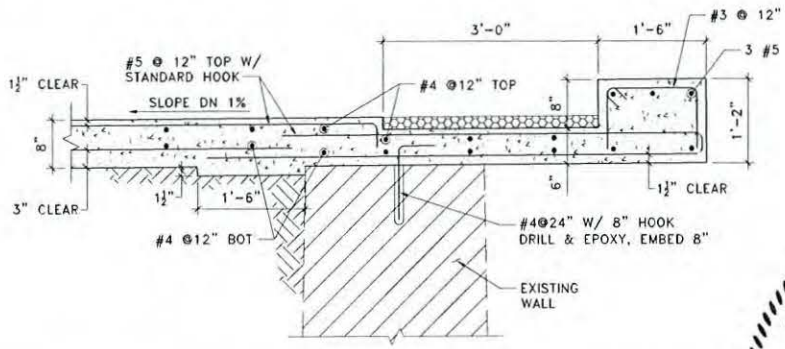
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PROJECT ID: B-30731

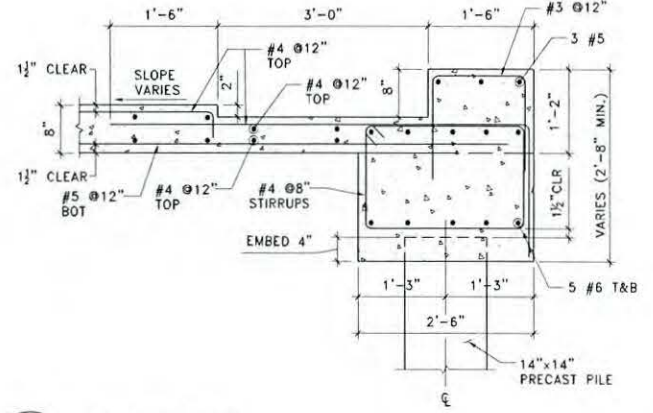
SECTIONS AND DETAILS
SHEET NO. S-6



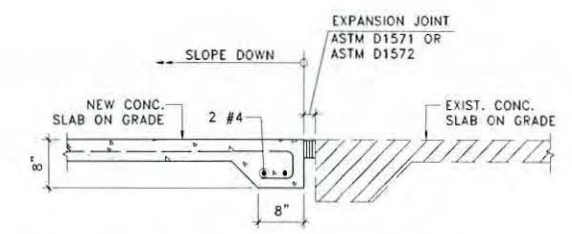
6 WALL CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



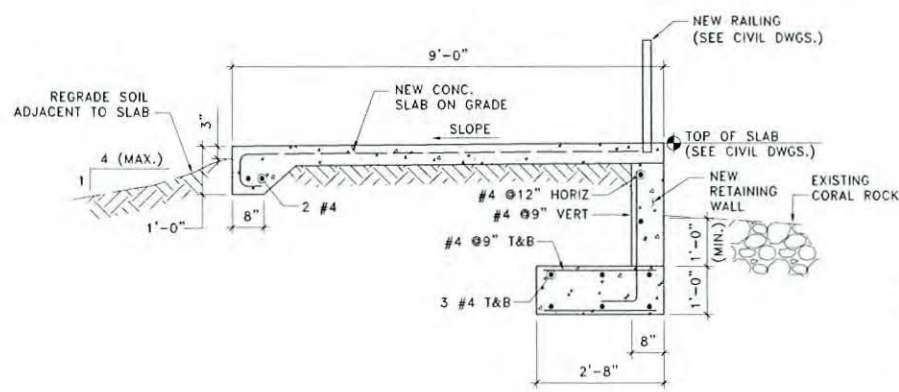
5 SLAB EDGE DETAIL
SCALE: 3/4" = 1'-0"



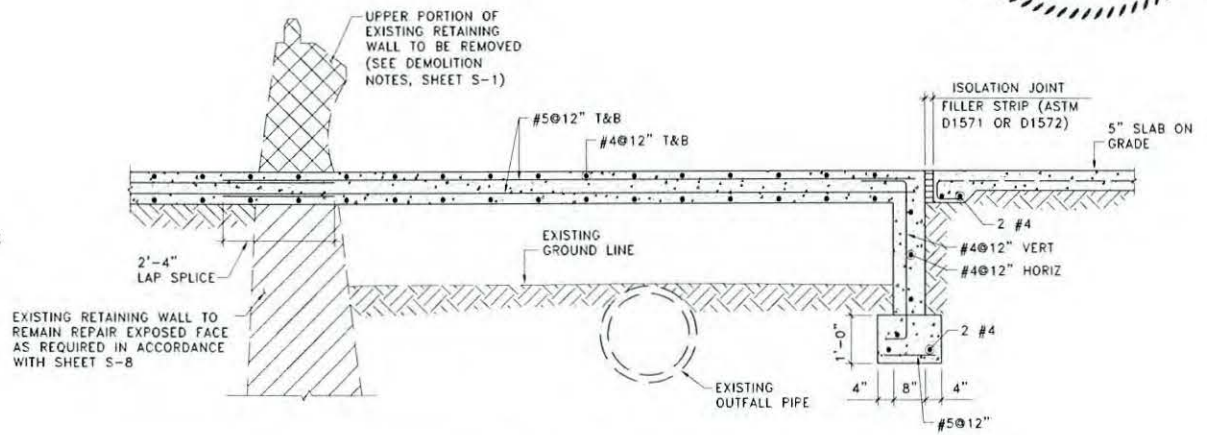
7 BEAM DETAIL
SCALE: 3/4" = 1'-0"



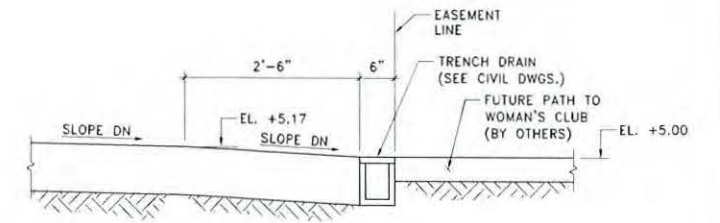
4 SECTION AT EXISTING WALKWAY
SCALE: 3/4" = 1'-0"



3 SECTION THROUGH WALKWAY ON GRADE
SCALE: 1/2" = 1'-0"



2 SECTION AT EXPANSION JOINT AT MARGARET PACE PARK
SCALE: 1/2" = 1'-0"



1 SECTION AT PATH TO WOMAN'S CLUB
SCALE: 3/4" = 1'-0"



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PROJECT ID: B-30731

SECTIONS AND DETAILS

SHEET NO. S-7

Biological Assessment Sketch

CLI-2012-0265 / City of Miami

1737 North Bayshore Drive, Miami

Upland inspection done on September 25, 2012 at 2:05PM

In-water inspection done on October 3, 2012 at 8:00AM

Biologist: Nicole Fresard

Resources -

Halodule wrightii (HW)

Syringodium filiforme (SF)

Acetabularia calyculus - sparse coverage documented lw and ww of the seagrass line.

0 to 135 LF from the north PL:

Total coverage 70% (HW 10%, SF 60%)

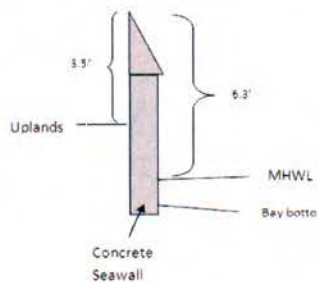
SF ~1 ft tall

135 LF to south PL:

Total coverage 40% HW (increases to ~70% within 10 ft ww)

HW ~ 0.5 ft tall

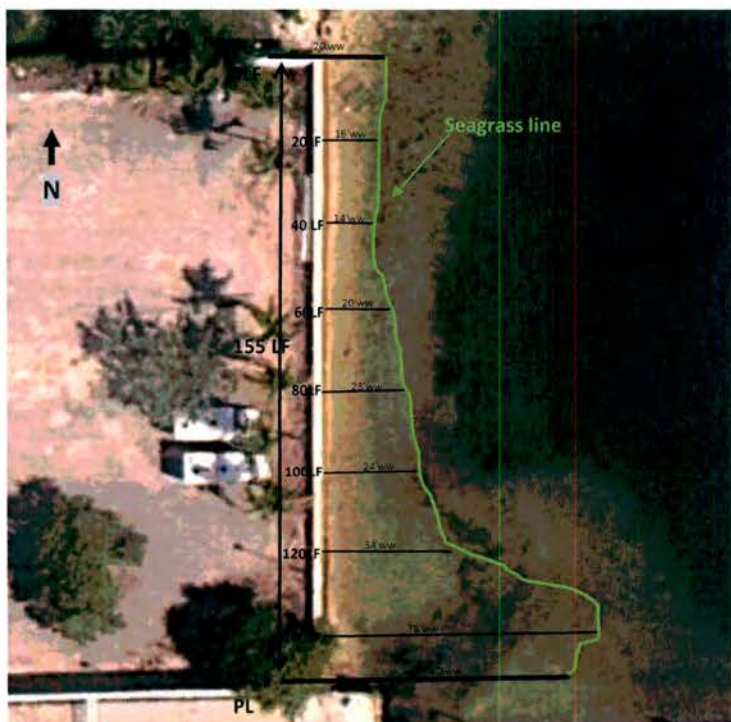
Seawall Cross Sectional View -



Seagrass Line and water depths -

LF	Seagrass line	Water Depths (1ft lw of SG line)
0	20'ww	0.5'MLW
20	14'ww	0.2'MLW
40	16'ww	0.2'MLW
60	20'ww	0.6'MWL
80	23'ww	0.6'MWL
100	24'ww	0.2'MLW
120	34'ww	0.2'MLW
140	78'ww	1.2'MLW
155	60'ww	0.2'MLW

* Exposed bottom at the seawall at MLW.
* All depths adjusted to MLW (adjustment 0.8')



Legend -

PL - property line

LF - linear feet

ww - waterward

lw - landward

MLW - mean low water

Notes -

- A concrete bag footer was documented between 145 and 155 LF from the NPL. (1 bag high by 1 bag wide)
- Rock rubble was documented within 5 feet ww of the existing seawall.
- Debris was documented within 5 LF from the SPL associated with the outfall on the adjacent property extending approximately to 20 feet ww.

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MIAMI WOMAN'S CLUB BAYWALK

Application No: 130426-5

Permit No: 13-05394-P

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