



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

September 20, 2017

REPLY TO  
ATTENTION OF

Regulatory Division  
South Permits Branch  
Miami Permits Section  
SAJ-2001-04039 (NW-PMG)

Daniel J. Alfonso  
City of Miami, City Manager  
3500 Pan American Way  
Miami, FL 33133

Dear Applicant:

The U.S. Army Corps of Engineers (Corps) assigned your application for a Department of the Army permit, which the Corps received on April 27, 2017, the file number SAJ-2001-04039. A review of the information and drawings provided indicates that the proposed work would result in the repair / replacement of an existing dock, boat ramp and sea wall in the same footprint. Removal of an existing 302 sf wood dock, 12 wood 12" piles, cement bags at various areas around the site, chain link fence that runs into the edge of the water, and a concrete column. To construct a new 43.4' x 6.5' wooden dock with micro mesh decking, supported on 10 – 12" wooden piles. A new concrete boat ramp measuring 63.3' long x 36.8' wide overall with 22' extending below the MHWL with 2.93 CY of fill. Removal of a landward section of the existing riprap to repair 113 linear feet seawall with 82 – concrete panels each measuring 2'6" wide x 24' tall x 1' thick topped off with a concrete cap measuring 2'4" x 2'6" along the entire length. To return previously moved riprap back against the repaired seawall. The project is located along Biscayne Bay, at 6447 NE 7 AVE, legally described 48.1 AC M/L BEG 1064.7FT N & 15FTE OF SW COR GOVT LOT 5 TH E100.64FT S25FT E99.26FT N25FT E876FT S233FT E66FT SWLY84FT M/L E174FT TO BLKHD/L CONT ELY2347.29FT NELY652.96FT W2232.81FT TO BLKHD/L CONT WLY1490.89FT S373.46FT TO POB & LOTS 43 & 44 LESS W100FT PER PB B-11, in Section 18, Township 53 South, Range 42 East, Miami, Miami-Dade County, Florida (Folio # 01-3218-000-0030)

Your project, as depicted on the enclosed drawings, is authorized by Nationwide Permit (NWP) Number 3. In addition, project specific conditions have been enclosed. This verification is valid until **March 18, 2022**. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have 12 months from the date of the modification or revocation of the NWP to complete the activity under the present terms and conditions of this nationwide permit. Please access the U.S. Army Corps of Engineers'

(Corps) Jacksonville District's Regulatory Internet page to access Internet links to view the Final Nationwide Permits, Federal Register Vol. 82, dated January 06, 2017, specifically pages 1879 – 1881, and the List of Regional Conditions. The Internet page address is:

<http://www.saj.usace.army.mil/Missions/Regulatory.aspx>

Please be aware this Internet address is case sensitive and should be entered as it appears above. Once there you will need to click on "Source Book"; and, then click on "Nationwide Permits." These files contain the description of the Nationwide Permit authorization, the Nationwide Permit general conditions, and the regional conditions, which apply specifically to this verification for NWP 3. Enclosed is a list of the six General Conditions, which apply to all Department of the Army authorizations. You must comply with all of the special and general conditions and any project specific condition of this authorization or you may be subject to enforcement action. In the event you have not completed construction of your project within the specified time limit, a separate application or re-verification may be required.

The following special conditions are included with this verification:

1. **Reporting Address:** The Permittee shall submit all reports, notifications, documentation and correspondence required by the conditions of this permit shall be submitted to the following address:

a. For standard mail: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Branch, 9900 Southwest 107th Avenue, Suite 203, Miami, Florida 33176.

b. For electronic mail: CESAJ-ComplyDocs@usace.army.mil (not to exceed 10 MB).

The Permittee shall reference this permit number, SAJ-2001-04039 (NW-PMG), on all submittals.

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

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

**4. Sea turtle and smalltooth sawfish conditions:** The Permittee shall comply with National Marine Fisheries Service's "Sea Turtle and Smalltooth Sawfish Construction Conditions," dated March 23, 2006, attached to this permit.

**5. Manatee Conditions:** The Permittee shall abide by the enclosed standard construction conditions designed to protect the endangered West Indian manatee, 2011, attached to this permit.

**6. Turbidity controls:**

- a. Shall be used throughout construction to control erosion and siltation and ensure that turbidity levels within the project area do not exceed background conditions.
- b. Shall be made of material in which listed species cannot become entangled (i.e., reinforced impermeable polycarbonate vinyl fabric [PVC]), and shall be monitored to ensure listed species are not entangled or trapped in the project area.
- c. Shall be removed promptly when the work is complete and the water quality in the project area has returned to background conditions.
- d. Shall not block entry to or exit from designated critical habitat.

**7. Posting of Permit:** The Permittee shall have available and maintain for review a copy of this permit and approved plans at the construction site.

**8. Agency Changes/Approvals:** Should any other agency require and/or approve changes to the work authorized or obligated by this permit, the Permittee is advised a re-verification to this permit instrument is required prior to initiation of those changes. It is the Permittee's responsibility to request a re-verification of this permit from the Miami Permits Section. The Corps reserves the right to fully evaluate, amend, and approve or deny the request for re-verification of this permit.

**9. Historic Properties:**

a. No structure or work shall adversely affect impact or disturb properties listed in the National Register of Historic Places (NRHP) or those eligible for inclusion in the NRHP.

b. If during the ground disturbing activities and construction work within the permit area, there are archaeological/cultural materials encountered which were not the subject of a previous cultural resources assessment survey (and which shall include, but not be limited to: pottery, modified shell, flora, fauna, human remains, ceramics, stone tools or metal implements, dugout canoes, evidence of structures or any other physical remains that could be associated with Native American cultures or early colonial or American settlement), the Permittee shall immediately stop all work and ground-disturbing activities within a 100-meter diameter of the discovery and notify the Corps within the same business day (8 hours). The Corps shall then notify the Florida State Historic Preservation Officer (SHPO) and the appropriate Tribal Historic Preservation Officer(s) (THPO(s)) to assess the significance of the discovery and devise appropriate actions.

c. Additional cultural resources assessments may be required of the permit area in the case of unanticipated discoveries as referenced in accordance with the above Special Condition; and if deemed necessary by the SHPO, THPO(s), or Corps, in accordance with 36 CFR 800 or 33 CFR 325, Appendix C (5). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume on non-federal lands without written authorization from the SHPO for finds under his or her jurisdiction, and from the Corps.

d. In the unlikely event that unmarked human remains are identified on non-federal lands, they will be treated in accordance with Section 872.05 Florida Statutes. All work and ground disturbing activities within a 100-meter diameter of the unmarked human remains shall immediately cease and the Permittee shall immediately notify the medical examiner, Corps, and State Archeologist within the same business day (8-hours). The Corps shall then notify the appropriate SHPO and THPO(s). Based, on the circumstances of the discovery, equity to all parties, and considerations of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. Such activity shall not resume without written authorization from the State Archeologist and from the Corps.

10. The project must be completed in accordance with the **enclosed construction drawings (pages 1-17), date-stamped June 17 2017 by the U.S. Army Corps of Engineers (Corps)**, and the general and special conditions which are incorporated in, and made a part of, the permit.

11. **Endangered Species:** The permittee agrees to comply with all of the activity specific Project Design Criteria (PDCs) listed in the National Marine Fisheries Service's (NMFS) Statewide Programmatic Biological Opinion (SWPBO), dated December 4, 2015. Failure to comply with these conditions could result in enforcement action by the Corps and/or NMFS.

**12. Right Whale Protection:** It is illegal to approach within 500 yards of a right whale by vessel, aircraft, or any other means (50 CFR 224.103 (c)). Any vessel finding itself within 500 yards of a right whale must depart immediately at a slow speed.

**13. Species reporting:** Any collision(s) with and/or injuries to any sea turtle, sawfish, whale, or sturgeon occurring during the construction of a project, shall be reported immediately to NMFS's Protected Resources Division (PRD) at (727-824-5312) or by email to [takereport.nmfs@noaa.gov](mailto:takereport.nmfs@noaa.gov) [CESAJ-ComplyDocs@usace.army.mil](mailto:CESAJ-ComplyDocs@usace.army.mil). Sea turtle and marine mammal stranding/rescue organizations' contact information is available by region at <http://www.nmfs.noaa.gov/pr/health/networks.htm>. Smalltooth sawfish encounters shall be reported to <http://www.flmnh.ufl.edu/fish/sharks/sawfish/sawfishencounters.html>.

\*Failure to report take of a federally listed threatened or endangered species may lead to suspension, revocation, or modification of this authorization. (From Section 3(18) of the Federal Endangered Species Act: The term 'take' means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct.)

**14. Marine Life Entrapment:** Neither structure nor material or the method of construction shall pose more than minimal risk of entrapping fish, marine turtles, or marine mammals. In-water lines must be industrial grade metal or heavy cables that do not readily loop and tangle. All in-water lines (rope and cable) must be rigid and cannot have excess line in the water. Lines may be enclosed in a plastic or rubber sleeve/tube to add rigidity.

**15. Noise Effects BMPs:** All projects shall comply with the requirements of the attached "Noise Best Management Practices (BMPs) for Piling Installation" (see attachment)

**16. Educational Signage:** The permittee shall install Educational signs in a visible location on the structure(s) to alert the public of listed species in the area susceptible to vessel strikes or hook-and-line captures. The most current version of the signs are available at [http://sero.nmfs.noaa.gov/protected\\_resources/section\\_7/protected\\_species\\_educational\\_signs/index.html](http://sero.nmfs.noaa.gov/protected_resources/section_7/protected_species_educational_signs/index.html).

**17. Educational Signage:** The permittee shall install Educational signs in a visible location on the structure(s) to alert the public of listed species in the area susceptible to vessel strikes or hook-and-line captures. The most current version of the signs are available at [http://sero.nmfs.noaa.gov/protected\\_resources/section\\_7/protected\\_species\\_educational\\_signs/index.html](http://sero.nmfs.noaa.gov/protected_resources/section_7/protected_species_educational_signs/index.html).

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

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

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

If you are unable to access the internet or require a hardcopy of any of the conditions, limitations, or expiration date for the above referenced NWP, please contact me by telephone at 305-779-6058.

Thank you for your cooperation with our permit program. The Corps Jacksonville District Regulatory Division is committed to improving service to our customers. We strive to perform our duty in a friendly and timely manner while working to preserve our environment. We invite you to complete our automated Customer Service Survey at [http://corpsmapu.usace.army.mil/cm\\_apex/f?p=regulatory\\_survey](http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey).

Please be aware this Internet address is case sensitive; and, you will need to enter it exactly as it appears above. Your input is appreciated – favorable or otherwise.

Sincerely,

Patrick Gaughran  
Project Manager

Enclosures:

- General Conditions
- Self-Certification Statement of Compliance
- Permit Transfer Request
- Site plans dated by the Corps 17 June 2017
- FWS Standard Manatee Conditions for In-Water Work (2011)
- NMFS Sea Turtle and Smalltooth Sawfish Construction Conditions (2006)

Copy/ies Furnished:

- Agent: Colin Henderson, T.Y. Lin International (via email)
- CESAJ-RD-PE

GENERAL CONDITIONS  
33 CFR PART 320-330

1. The time limit for completing the work authorized ends on **March 18, 2022**.
2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
4. If you sell the property associated with this permit you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
6. You must allow a representative from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.



**DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST**

**PERMIT NUMBER: SAJ-2001-04039 (NW-PMG)**

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

To validate the transfer of this permit and the associated responsibilities associated with compliance with its terms and conditions, have the transferee sign and date below and mail to the U.S. Army Corps of Engineers, Enforcement Section, Post Office Box 4970, Jacksonville, FL 32232-0019.

\_\_\_\_\_  
**(TRANSFEREE-SIGNATURE)**

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

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

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

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

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

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

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

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

**SELF-CERTIFICATION STATEMENT OF COMPLIANCE**

**Permit Number: SAJ-2001-04039**

**Permit type: NW-3**

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

\_\_\_\_\_

\_\_\_\_\_

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

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

\_\_\_\_\_

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

**PROPERTY IS INACCESSIBLE WITHOUT PRIOR NOTIFICATION: YES \_\_\_\_\_ NO \_\_\_\_\_**

**TO SCHEDULE AN INSPECTION PLEASE CONTACT \_\_\_\_\_**

**AT \_\_\_\_\_**

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

\_\_\_\_\_

\_\_\_\_\_

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

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

\_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

\*\*\*\*\*

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

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

\_\_\_\_\_  
Date

Commission:

Mayor

Tomas P. Regalado

Chairman / D1 Commissioner

Wifredo (Willy) Gort

Chairman / D5 Commissioner

Keon Hardemon

D2 Commissioner

Ken Russell

D3 Commissioner

Frank Carollo

D4 Commissioner

Francis Suarez

City Manager

Daniel J. Alfonso

# CITY OF MIAMI

## CAPITAL IMPROVEMENTS PROGRAM

JEOVANNY RODRIGUEZ, P.E., DIRECTOR

### LEGION PARK SEAWALL & BOAT RAMP

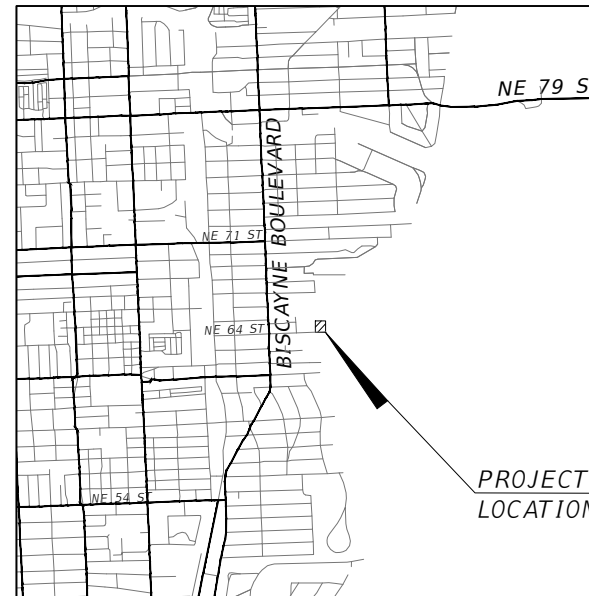
#### PROJECT No. B-40510



PERMIT PLANS  
MARCH 15, 2017

### INDEX OF SHEETS

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LOCATION MAP  
SCALE :1" = 4,000'

PLANS PREPARED BY:

### T·Y·LIN INTERNATIONAL

201 ALHAMBRA CIRCLE SUITE 900  
CORAL GABLES, FLORIDA 33134  
PHONE: (305) 567-1888  
FAX: (305) 567-1771  
EB00002017

GOVERNING STANDARDS AND SPECIFICATIONS:

- FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED 2014, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2014, AS AMENDED BY CONTRACT DOCUMENTS.

- CITY OF MIAMI ENGINEERING STANDARDS FOR DESIGN AND CONSTRUCTION DATED DECEMBER 2010

- MIAMI 21 CODE DATED MAY 2010.



ROADWAY PLANS

ENGINEER OF RECORD: FRANCISCO J. ALONSO, P.E.

P.E. NO.: 66918

STRUCTURAL PLANS

ENGINEER OF RECORD: ALEJANDRO SALAS

P.E. NO.: 74789

ELECTRICAL PLANS

ENGINEER OF RECORD: ENRIQUE JR. SOSA, P.E.

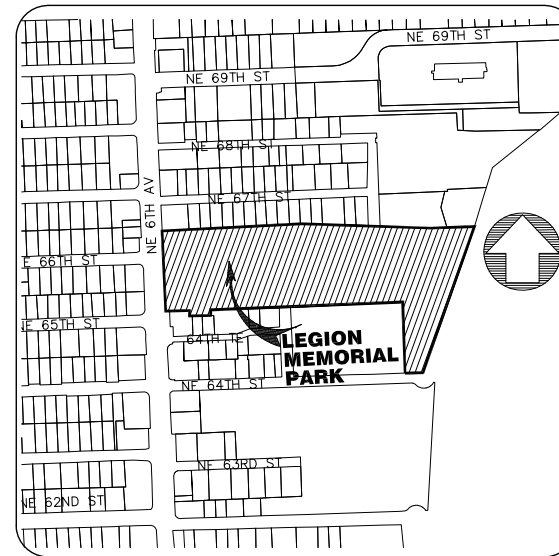
P.E. NO.: 53885

SHEET NO.

G-1

# BOUNDARY AND TOPOGRAPHIC SURVEY OF "LEGION MEMORIAL PARK"

## SECTION 18 - TOWNSHIP 53 SOUTH - RANGE 42 EAST



LOCATION MAP  
NOT TO SCALE

**SURVEYOR'S NOTES:**

**SECTION 1) DATE OF FIELD SURVEY:**

1. The date of completion of the field work of the Boundary and Topographic Survey was on May 05, 2016.

**SECTION 2) LEGAL DESCRIPTION:**

Beginning at a point 15 feet East of the Southwest corner of Government Lot 5 in Section 18 Township 53 South of Range 42 East, Dade County, Florida; Thence run North parallel with and 15 feet East of the West boundary line of said Government Lot 5, a distance of 747.7 feet, more or less to the Southwest corner of Lot 2, of Mary Brickell's Plat, recorded in Plat Book "B", on page 11, of the public Records of Dade county, Florida; Thence run East 1155 feet, more or less, to the West shore of Biscayne Bay; Thence Northerly along and meandering said West shore of Biscayne Bay to the Southeast corner of that certain property heretofore conveyed by the Grantor herein to Walter Harris Company, a corporation, by deed recorded in Deed Book 257 at page 424 of the Public Records of Dade County Florida; Thence in a Westwardly course along and following the South boundary of the tract heretofore conveyed by the Grantor herein to said Walter Harris Company, a corporation, as described in Deed Book 257 at page 424 of the public Records of Dade County, Florida, to a point 15 feet East of the West boundary of Government Lot 1 in section 18, Township 53 South of Range 42 East, Dade County, Florida; Thence South parallel to and 15 feet East of said west boundaries of Government Lots 1 and 5 in said section 18, 690.5 feet more or less, to the place of beginning; Less, however, Tracts "K" and "L" as shown on a Plat of a Subdivision of Government Lot 5 in Section 18, Township 53 South, of Range 42 East, recorded in Plat Book "A", at page 1 of the Public Records of Dade County, Florida; Also less a strip of land measuring 25 feet North and South and 125 feet East and West, lying to the North of Tracts "K" and "L" as shown on the Plat above referred to and recorded in plat Book "A" at page 1, of the Public Records of Dade County, Florida, and otherwise referred to, described and indicated as Tract "M" on a certain plat attached to a mortgage heretofore encumbering the property herein conveyed, which said mortgage is recorded in Mortgage Book 55 at page 146, of the Public Records of Dade County, Florida.

Together with the following described property conveyed to the Trustees for the Harvey W. seeds Post No. 29 American Legion by the Trustees of the Internal Improvement Fund of the State of Florida as recorded in Deed Book 1590 at Page 83 and Deed Book 2578 at Page 300 of the public Records of Dade County, Florida: From the Southwest corner of Government Lot 5, which is in the center of section 18, Township 53 South, Range 42 East, Dade County, Florida, go northerly along the said West line of said Government Lot 5; a distance of 1,438.1 feet; thence, right with a deflection angle of 90 20' a distance of 667 feet; thence, right with a deflection angle of 3 36' a distance of 559 feet more or less, to a point of beginning; said point being the northeasterly corner of the land conveyed to S. S. McCahill, et al, as Trustees for Harvey W. Seeds Post No. 29, American Legion, Department of Florida, by deed recorded in Deed Book 1543, page 24 public Records of Dade County, Florida. From said point of beginning go easterly along a line 650(Deed 600) feet, more or less, north of and parallel to the north line of N. E. 64th Street in Miami, Florida, produced easterly a distance of 2,513 (Deed 2,400) feet, more or less, to a line 250 feet westerly from the center line of the Inland Waterway Channel as constructed by the United states and parallel to said center line; thence southerly along said line a distance of 653 (Deed 600) feet, more or less to its intersection with the north line of said N. E. 64th Street produced easterly a distance of 2,500 feet, more or less, to the western shore of Biscayne Bay; thence, northerly along the western shore of Biscayne Bay and the property of Harvey W. Seeds Post No. 29, American Legion. Department of Florida, a distance of 653 (Deed 600) feet, more or less, to the point of beginning, all lying and being in Township 53 South, Range 42 East, Dade County Florida.

LESS: LEGION PARK, according to the Plat thereof, recorded in Plat Book 39, at Page 86, of the Public Records of Dade County, Florida;

ALSO LESS : The Amended Plat of LEGION PARK, according to the Plat thereof, recorded in Plat Book 39, at page 93, of the Public Records of Dade County, Florida;

ALSO LESS: All that part of Government Lot 5 in Section 18, Township 53, South, Range 42 East as per Plat recorded in Plat Book A, at page 1, of the Public Records of Dade County Florida, which part is particularly bounded and described as follows, to-wit:

Commencing at a point the Northwest corner of Lot D of Legion Park, as per Plat Recorded in Book 39, at Page 93, of the Public Records of Dade County, Florida, running thence Westerly and parallel to the North line of Lot 1 of Arlington, as said Lot 1 is show on map recorded in Plat Book 7, Page 44, of the Public Records of Dade County, Florida, a distance of 56 feet, thence south parallel to the Westerly line of Said Lot D a distance of 25 feet to the Northwest corner of Lot 1 of said Arlington, thence Easterly along the Northerly line of said Lot 1 of Arlington 56 feet to the Westerly line of said Lot D, thence North along the Westerly line of said Lot D, 25 feet to the point of Beginning.

ALSO LESS: All that part of Government Lot 5 in Section 18, Township 53, South, Range 42 East, as per Plat recorded in Plat Book A, at page 1 of the public Records of Dade County, Florida, which part is particularly bounded and described as follows, to-wit:

Commencing at a Point the Northeast corner of Lot 2 of Arlington, as said Lot is shown on map recorded in Plat Book 7, page 44, of the Public Records of Dade County, Florida, running thence North parallel to the west line of Lot D of Legion Park, as per plat recorded in Book 39, at page 93, of the Public Records of Dade County, Florida, 25 feet to a point being the Northwest corner of tract conveyed to Randolph B. Covington and Rose Covington, his wife, by Deed recorded in Deed Book 2258 at Page 173, thence West and parallel to the North line of said Lot 2 of Arlington 56 feet to a point, and then South and parallel to the Westerly line of Lot D as aforesaid 25 feet to the Northwest Corner of said Lot 2 of Arlington, thence East along the North line of said Lot 2, 56 feet to the point of Beginning; plat above referred to and

ALSO LESS: Lots 1, 2 and 6 of the Mary Brickell Subdivision, as per Plat thereof recorded in Plat Book B, at page 11, of the Public Records of Dade County, Florida. Said Lot 6 is also shown as Lot 6 of Legion Park, on Plat recorded in Plat Book 39, at page 93, of the public Records of Dade County, Florida.

ALSO LESS: The following described property : Commence at the southwest corner of the SW 1/4 of the NE 1/4 of section 18, Township 53 South, Range 42 East, thence north along the west line of the NE 1/4 of aforesaid Section, 727.67 feet to the point of intersection with the center line of Northeast 64th Street, thence east along the center line of Northeast 64th Street, 600 feet to a point, thence north parallel to the west line of the NE 1/4 of aforesaid Section 18 a distance of 20.0 feet to the Southwest corner of Lot 26 of MARY BRICKELL SUBDIVISION as recorded in plat Book B, at page 11, of the Public Records of Dade County, Florida, said point being the point of beginning of the parcel of land hereinafter described as follows, thence north along the west line of said Lot 26 and the east line of Northeast 7th Avenue as shown on AMENDED PLAT OF LEGION PARK, Plat Book 39, at Page 93, of the Public Records of Dade County, Florida, a distance of 317.1 feet to a point, thence east parallel to the center line of Northeast 64th Street 500 feet to a point, thence south parallel to the east line of Northeast 7th Avenue, 317.1 feet to the north line of Northeast 64th Street (Bay Street) Plat Book B, Page 411, Public Records of Dade County, Florida, thence west along the north line of Northeast 64th Street, 500 feet to the Point of Beginning. The above described property contains approximately 48 acres.

**SECTION 3) ACCURACY:**

The accuracy obtained by field measurement methods and office calculations of closed geometric figures meets and exceeds the Standards of Practice requirement for this Type of Survey as defined in Rule 5J-17.051, Florida Administrative Code.

Elevations of well identified features as depicted on the Survey Map were measured to an estimated vertical position accuracy of 1/100 of a foot on hard surfaces and 1/10 of a foot on ground surfaces.

Well identified features as depicted on the Survey Map were measured to an estimated horizontal position accuracy of 1/10 of a foot.

This Map of Survey is intended to be displayed at a scale of (1"=50') or smaller.

**SECTION 4) SOURCES OF DATA:**

North arrow direction is based on an assumed Meridian.

(Warranty Deed, dated July 27th, 1966, recorded in Official Records Book 5154, Page 287, Miami-Dade County Records).

Bearings as shown hereon are based upon the Westerly Boundary Line with an assumed bearing of S02°21'41"E, said line to be considered a well established and monumented line.

This property is to be located in Flood Zone "X", Zone "AE", Elevation 8.0, 9.0 and 10, as per Federal Emergency Management Agency (FEMA) Community Number 120650 (City of Miami), Map Panel No. 12086C0308, Suffix L, Map Revised Date: September 11, 2009. (As Shown of the Survey Map)

Legal Description was furnished by client.

City of Miami Municipal Atlas, Sheet No. 14 C, D, and G, prepared by the City of Miami, Department of Engineering.

Benchmark E-243, Elevation: + 11.76 feet (NGVD 29)

Located:  
NE 68 St.-----On South Side  
NE 4 Ct.-----150' West of C/L  
35' East of East Rail of Main Track  
Found:

Us C & G Brass Disc set vertically in the West wall of a Bldg., 0.5' South of the NW Corner of Bldg., 2' above ground level.

Elevations as shown hereon are based on (City of Miami Datum), Miami-Dade County Benchmark "E-243" was used its Elevation was converted by adding 0.26".  
BM Elevations 11.76 (NGVD 29) +0.26"= 12.02 (City of Miami Datum).

The Mean High Water Elevation as shown hereon was established by extending the elevation shown at Mean High Water Interpolation Point No. 137 as per Florida Department of Environmental Protection.

**SECTION 5) LIMITATIONS:**

Since no other information were furnished other than what is cited in the Sources of Data, the Client is hereby advised that there may be legal restrictions on the Subject Property that are not shown on the Survey Map that may be found in the Public Records of Miami-Dade County.

The Surveyor makes no representation as to ownership or possession of the Subject Property by any entity or individual who may appear of public records of this County.

No excavation or determination was made as to how the Subject Property is served by utilities.

No improvements were located, other than those shown. No underground foundations, improvements and/or utilities were located or shown hereon.

**SECTION 6) CLIENT INFORMATION:**

This Boundary Survey was prepared at the request of and certified to:

CAPITAL IMPROVEMENTS AND TRANSPORTATION P.

**SECTION 7) SURVEYOR'S CERTIFICATE:**

I hereby certify: That this "Boundary and Topographic Survey" and the Survey Map resulting therefrom was performed under my direction and is true and correct to the best of my knowledge and belief and further, that said "Boundary and Topographic Survey" meets the intent of the applicable provisions of the "Standards of Practice for Land Surveying in the State of Florida", pursuant to Rule 5J-17.051 through 5J-17.052 of the Florida Administrative Code and its implementing law, Chapter 472.027 of the Florida Statutes.

**HADONNE CORP.**, a Florida Corporation  
Florida Certificate of Authorization Number LB7097

By: \_\_\_\_\_  
**Abraham Hada, PSM**  
Registered Surveyor and Mapper LS6006  
State of Florida

**NOTICE:** Not valid without the signature and original raised seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to Survey Maps by other than the signing party are prohibited without the written consent of the signing party.

LAND SURVEYOR AND MAPPERS  
3D LASER SCANNING  
UTILITY COORDINATION  
SUBSURFACE UTILITY ENGINEERING  
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**BNDY. & TOPOGRAPHIC SURVEY**  
for  
**CITY OF MIAMI CAPITAL IMPROVEMENTS AND TRANSPORTATION**  
of  
**6447 NE 7th AVENUE, MIAMI, FL 33138**

REVISIONS	6	7	8	9	10

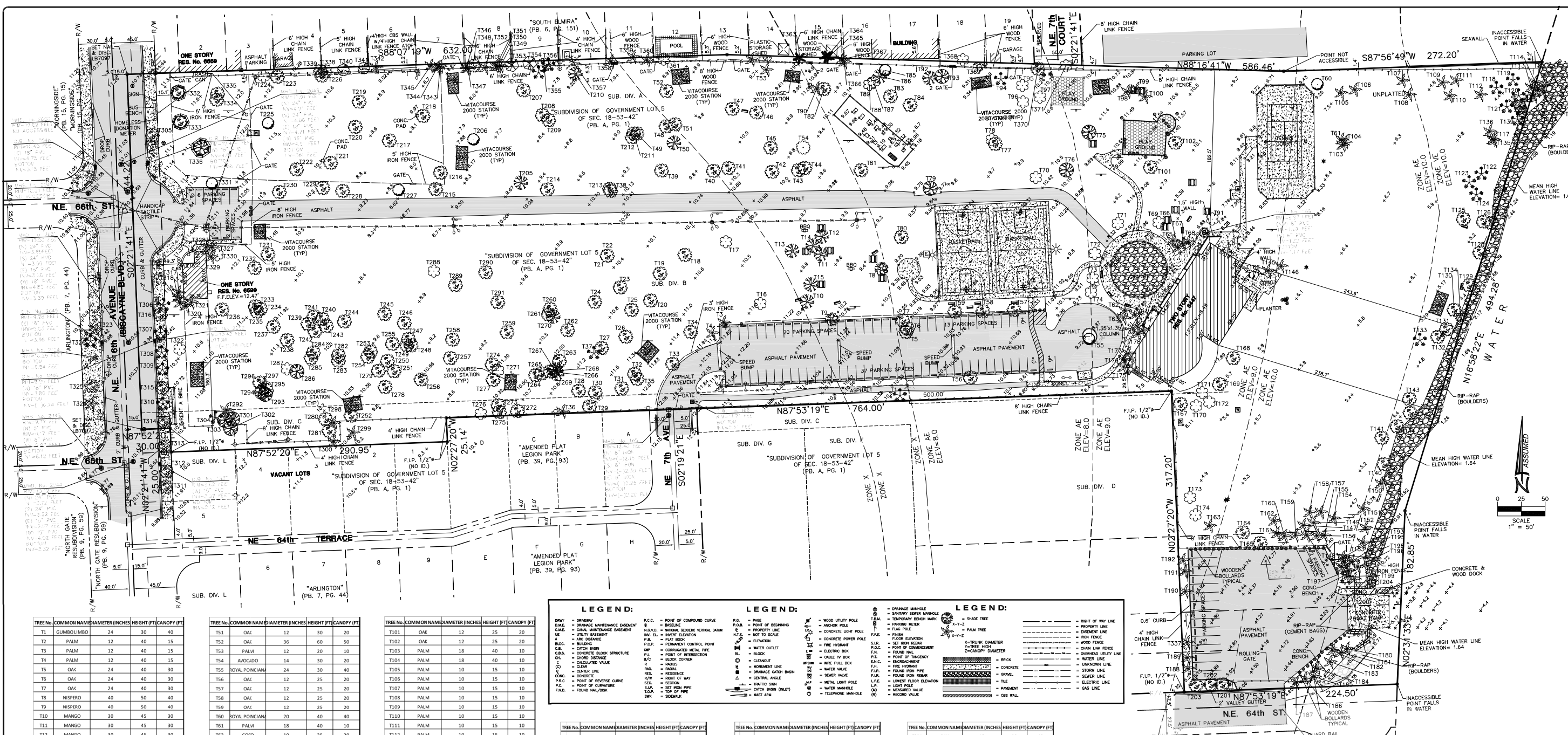
Field Book:	FILE
DRAWN BY:	MG
TECH BY:	RI
QA/QC BY:	AH
Job No.:	16053



LAND SURVEYOR AND MAPPERS  
3D LASER SCANNING  
UTILITY COORDINATION  
SUBSURFACE UTILITY ENGINEERING

**HADONNE**  
MAP OF BOUNDARY SURVEY  
for  
CAPITAL IMPROVEMENTS AND TRANSPORTATION  
of  
6447 NE 7th AVENUE, MIAMI, FL 33138

REVISIONS	1	2	3	4	5
FILE					
DRAWN BY:	MG				
TECH BY:	RI				
QA/QC BY:	AH				
Job No.:	16053				
	1/1				



TREE NO.	COMMON NAME	DIAMETER (INCHES)	HEIGHT (FT)	CANOPY (FT)
T1	GUMBO LIMBO	24	30	40
T2	PALM	12	40	15
T3	PALM	12	40	15
T4	PALM	12	40	15
T5	OAK	24	40	30
T6	OAK	24	40	30
T7	OAK	24	40	30
T8	NSPIRO	40	50	40
T9	NSPIRO	40	50	40
T10	MANGO	30	45	30
T11	MANGO	30	45	30
T12	MANGO	30	45	30
T13	MANGO	30	45	30
T14	MANGO	12	30	15
T15	MANGO	12	30	15
T16	TREE	4	15	10
T17	TREE	4	15	10
T18	OAK	36	50	40
T19	OAK	36	50	40
T20	OAK	36	50	40
T21	OAK	36	50	40
T22	OAK	36	50	40
T23	OAK	36	50	40
T24	OAK	36	50	40
T25	OAK	36	50	40
T26	OAK	36	50	40
T27	OAK	36	50	40
T28	OAK	36	50	40
T29	OAK	36	50	40
T30	OAK	36	50	40
T31	OAK	36	50	40
T32	OAK	36	50	40
T33	OAK	36	50	40
T34	OAK	36	50	40
T35	OAK	12	35	20
T36	PALM	12	20	10
T37	GUMBO LIMBO	40	60	40
T38	OAK	36	50	40
T39	OAK	36	50	40
T40	OAK	36	50	40
T41	OAK	36	50	40
T42	OAK	36	50	40
T43	OAK	36	50	40
T44	OAK	36	50	40
T45	OAK	36	50	40
T46	OAK	36	50	40
T47	OAK	36	50	40
T48	OAK	36	50	40
T49	OAK	72	50	60
T50	MANGO	36	50	40

TREE NO.	COMMON NAME	DIAMETER (INCHES)	HEIGHT (FT)	CANOPY (FT)
T51	OAK	12	30	20
T52	OAK	36	60	50
T53	PALM	12	20	10
T54	MANGO	24	30	20
T55	ROYAL PONCIAN	14	30	40
T56	OAK	12	25	20
T57	OAK	12	25	20
T58	OAK	12	25	20
T59	OAK	12	25	20
T60	ROYAL PONCIAN	20	40	40
T61	PALM	18	40	10
T62	COCO	10	25	20
T63	COCO	10	25	20
T64	COCO	10	25	20
T65	COCO	10	25	20
T66	COCO	10	25	20
T67	COCO	10	25	20
T68	COCO	10	25	20
T69	TREE	48	25	25
T70	TREE	4	15	10
T71	TREE	4	15	10
T72	TREE	4	15	10
T73	TREE	4	15	10
T74	TREE	4	15	10
T75	FICUS	112	55	50
T76	FICUS	48	45	45
T77	OAK	24	50	35
T78	TREE	14	25	15
T79	FICUS	100	60	50
T80	OAK	48	50	50
T81	OAK	48	50	50
T82	OAK	48	50	50
T83	OAK	48	50	50
T84	OAK	48	50	50
T85	ROYAL PONCIAN	48	50	45
T86	MANGO	12	25	15
T87	TREE	18	50	30
T88	TREE	48	60	40
T89	TREE	48	60	40
T90	PALM	18	15	10
T91	TREE	130	60	50
T92	MANGO	12	20	20
T93	FICUS	140	50	50
T94	GUMBO LIMBO	15	45	25
T95	TREE	30	50	40
T96	TREE	30	50	40
T97	TREE	30	50	40
T98	PALM	12	15	10
T99	PALM	12	15	10
T100	PALM	12	15	10

TREE NO.	COMMON NAME	DIAMETER (INCHES)	HEIGHT (FT)	CANOPY (FT)
T101	OAK	12	25	20
T102	OAK	12	25	20
T103	OAK	18	40	10
T104	PALM	18	40	10
T105	PALM	10	15	10
T106	PALM	10	15	10
T107	PALM	10	15	10
T108	PALM	10	15	10
T109	PALM	10	15	10
T110	PALM	10	15	10
T111	PALM	10	15	10
T112	PALM	10	15	10
T113	PALM	10	15	10
T114	PALM	10	15	10
T115	PALM	10	15	10
T116	PALM	10	15	10
T117	PALM	10	15	10
T118	GUMBO LIMBO	14	35	30
T119	GUMBO LIMBO	14	35	30
T120	TREE	14	35	30
T121	GUMBO LIMBO	14	35	30
T122	GUMBO LIMBO	14	35	30
T123	GUMBO LIMBO	14	35	30
T124	GUMBO LIMBO	14	35	30
T125	OAK	16	40	35
T126	OAK	16	40	35
T127	OAK	16	40	35
T128	OAK	16	40	35
T129	OAK	16	40	35
T130	OAK	16	40	35
T131	OAK	16	40	35
T132	OAK	16	40	35
T133	GUMBO LIMBO	15	25	20
T134	SEAGRape	6	18	12
T135	PALM	12	15	10
T136	PALM	12	15	10
T137	PALM	12	15	10
T138	PALM	12	15	10
T139	GUMBO LIMBO	15	25	20
T140	OAK	24	35	25
T141	OAK	24	35	25
T142	OAK	24	35	25
T143	OAK	24	35	25
T144	OAK	12	20	15
T145	COCO	10	20	10
T146	COCO	10	20	10
T147	COCO	12	40	20
T148	COCO	12	40	20
T149	COCO	12	40	20
T150	COCO	10	25	15

TREE NO.	COMMON NAME	DIAMETER (INCHES)	HEIGHT (FT)	CANOPY (FT)
T151	COCO	10	25	15
T152	COCO	10	25	15
T153	COCO	10	25	15
T154	COCO	10	25	15
T155	COCO	10	25	15
T156	COCO	10	25	15
T157	COCO	10	25	15
T158	COCO	10	25	15
T159	COCO	10	25	15
T160	COCO	10	25	15
T161	COCO	10	25	15
T162	COCO	10	25	15
T163	COCO	10	25	15
T164	OAK	24	50	35
T165	OAK	24	50	35
T166	SEAGRape	80	70	60
T167	OAK	24	50	35
T168	OAK	24	50	35
T169	OAK	24	50	35
T170	TREE	60	50	40
T171	TREE	60	50	40
T172	TREE	36	50	40
T173	TREE	8	15	8
T174	TREE	36	25	15
T175	PALM	8	10	10
T176	PALM	8	10	10
T177	PALM	8	10	10
T178	PALM	8	10	10
T179	PALM	8	10	10
T180	PALM	10	20	10
T181	PALM	10	20	10
T182	PALM	10	20	10
T183	PALM	10	20	10
T184	PALM	10	20	10
T185	PALM	10	20	10
T186	PALM	10	20	10
T187	PALM	10	20	10
T188	PALM	10	20	10
T189	PALM	10	20	10
T190	PALM	10	20	10

TREE NO.	COMMON NAME	DIAMETER (INCHES)	HEIGHT (FT)	CANOPY (FT)
T201	OAK	15	30	40
T202	OAK	15	30	40
T203	OAK	15	30	40
T204	OAK	15	30	40
T205	OAK	30	50	40
T206	OAK	40	50	45
T207	OAK	40	50	45
T208	OAK	40	50	45
T209	OAK	40	50	45
T210	OAK	24	50	40
T211	OAK	24	50	40
T212	OAK	24	50	40
T213	OAK	24	50	40
T214	OAK	50	60	65
T215	MANGO	30	60	45
T216	MANGO	30	60	45
T217	OAK	80	70	60
T218	OAK	80	70	60
T219	PALM	10	20	10
T220	PALM	10	20	10
T221	PALM	10	20	10
T222	PALM	10	20	10
T223	PALM	10	20	10
T224	TREE	6	15	12
T225	ROYAL PONCIAN	18	40	30
T226	OAK	24	60	45
T227	ROYAL PONCIAN	24	50	40
T228	OAK	24	50	45
T229	OAK	24	50	45
T230	OAK	24	50	45

TREE NO.	COMMON NAME	DIAMETER (INCHES)	HEIGHT (FT)	CANOPY (FT)
T231	TREE	15	40	30
T232	OAK	25	70	40
T233	OAK	25	70	40
T234	OAK	25	70	40
T235	OAK	25	70	40
T236	OAK	20	40	30
T237	OAK	20	40	30
T238	OAK	20	40	30
T239	OAK	20	40	30
T240	OAK	20	40	30
T241	OAK	20	40	30
T242	OAK	20	40	30
T243	OAK	20	40	30
T244	OAK	20	40	30
T245	OAK	20	40	30
T246	OAK	20	40	30



**GENERAL NOTES**

- GENERAL NOTES ON THE PROJECT PLANS AND DRAWINGS ARE SOLELY TO AID AND ASSIST THE CONTRACTOR WITH THE FIELD OPERATIONS FOR THE PROJECT. SAID GENERAL NOTES MAY NOT FULLY DESCRIBE ALL OF THE REQUIREMENTS FOR AN ITEM. THEREFORE, THE CONTRACTOR SHALL READ AND VERIFY THE CONTRACT DOCUMENTS, INCLUDING BUT NOT LIMITED TO THE PLANS, SPECIFICATIONS, GENERAL TERMS AND CONDITIONS, AND THE SUPPLEMENTAL TERMS AND CONDITIONS, TO FULLY UNDERSTAND AND COMPLY WITH ALL THE REQUIREMENTS THEREIN.
- THE CONTRACTOR MUST HAND EXCAVATE AROUND AREAS WHERE EXISTING UNDERGROUND UTILITIES ARE EXPECTED OR SUSPECTED IN ORDER TO AVOID DAMAGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS AND COSTS TO CORRECT DAMAGES RESULTING FROM FAILURE TO TAKE ALL NECESSARY PRECAUTIONS INCLUDING LOCATING, MARKING AND CAREFUL EXCAVATION, AND SHOULD BE INCIDENTAL TO THE COST OF THE PROJECT.
- IT IS THE OBLIGATION OF THE BIDDER OR THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION AND SATISFY HIMSELF FULLY OF SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS BID. FAILURE TO DO SO, WILL NOT RELIEVE HIM OF HIS OBLIGATION TO COMPLETE THE WORK FULLY AND ACCEPTABLE TO THE ENGINEER AND THE OWNER FOR THE CONSIDERATION SET FORTH IN HIS BID.
- CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM PRINTS FOR CONSTRUCTION PURPOSES.
- ALL DISTURBED GRASS AREAS SHALL BE RESTORED WITH SUITABLE SOIL AND SOLID ST AUGUSTINE SOD IF NOT SPECIFIED OTHERWISE ON THE PLANS.
- IT IS THE INTENT OF THESE PLANS TO BE IN COMPLIANCE WITH APPLICABLE CODES OF AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES, UTILITIES AND UTILITY MARKERS, WHICH MAY NOT BE SHOWN ON PLANS. ANY EXISTING STRUCTURES, PAVEMENT, TREES, UTILITIES, UTILITY MARKERS OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARILY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- ANY DISCREPANCIES IN THESE DRAWINGS WITH THE FIELD CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. CONSTRUCTION SHALL NOT CONTINUE UNTIL ENGINEER ADDRESSES THE DISCREPANCIES.

**CONSTRUCTION NOTES**

- ALL WORK TO BE IN COMPLIANCE WITH THE REQUIREMENTS OF AND ACCEPTABLE TO CITY OF MIAMI PUBLIC WORKS DEPARTMENT AND MIAMI-DADE COUNTY R.E.R.
- CONTRACTOR SHALL PROVIDE HIS OWN LINE AND GRADE FROM HORIZONTAL AND VERTICAL CONTROL. CONTRACTOR SHALL ALSO PROVIDE "AS BUILT" GRADES CERTIFIED BY A REGISTERED LAND SURVEYOR AS REQUIRED BY THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT.
- BID PRICES SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS COMPLETE IN PLACE, TESTED, AND ACCEPTED BY THE ENGINEER.
- THE CONTRACTOR SHALL USE SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING INLETS AND CULVERTS CLEAN OF DEBRIS AND ANY OTHER MATERIALS USED DURING CONSTRUCTION. THIS SHALL BE DONE DURING THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. ALL EXISTING LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
- CONTRACTOR SHALL CONTACT SUNSHINE AT (800) 432-4770 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES.
- ALL TREES TO BE RELOCATED OUTSIDE OF CONSTRUCTION AREA WHERE FEASIBLE. UNAVOIDABLE IMPACT TO MANGROVE TREES ARE TO BE MITIGATED IN ACCORDANCE TO APPROVED PERMITS.
- THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS LISTED IN PROJECT SPECIFICATION (WHERE APPLICABLE).
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES.
- ALL EXISTING DRAINAGE STRUCTURES AND PIPES ARE TO REMAIN AND TO BE PROTECTED UNLESS OTHERWISE SPECIFIED AND APPROVED.
- CONTRACTOR SHALL IMPLEMENT AND ENFORCE ALL NPDES EROSION AND SEDIMENT CONTROL RULES AND REGULATIONS.
- CONTRACT SHALL INCLUDE IN THE BID PRICE FOR CLEARING AND GRUBBING.

**SURVEY NOTES**

SURVEY INFORMATION PROVIDED BY THE CITY OF MIAMI AND PREPARED BY HADONNE LAND SURVEYORS AND MAPPERS PREPARED ON 05/05/2016. EXISTING ELEVATIONS SHOWN ARE BASED ON CITY OF MIAMI DATUM, MIAMI DADE COUNTY BENCHMARK "E-243" WAS USED AND ITS ELEVATION WAS CONVERTED BY ADDING 0.26'. BM ELEVATION 11.76 (NGVD 29) +0.26' = 12.02 (CITY OF MIAMI DATUM).

GEOTECHNICAL INFORMATION PROVIDED BY NV5 ON THEIR REPORT DATED DECEMBER 1, 2016.

**ENVIRONMENTAL NOTES**

- ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES.
- THE CONTRACTOR SHALL REVIEW ENVIRONMENTAL REQUIREMENTS OF ANY PROPOSED STAGING AREAS WITH THE PROJECT ENGINEER AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO USE.
- NO STAGING OR OTHER ACTIVITIES FOR THIS PROJECT WILL BE ALLOWED WITHIN ENVIRONMENTALLY SENSITIVE AREAS.
- CONTRACTOR SHALL NOT STAGE OR OPERATE EQUIPMENT WITHIN THE DRIPLINE OF TREES.
- CONTRACTOR TO PROVIDE A CERTIFIED ARBORIST WHO WILL DETERMINE ANY ROOT PRUNING AND ANY OTHER TRIMMING ACTIVITIES. COST TO BE INCIDENTAL TO CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PROVIDED.

**STRUCTURAL NOTES**

- CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FDOT 2015 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- DESIGN SHALL BE IN ACCORDANCE WITH THE FDOT STRUCTURES MANUAL JANUARY 2015, AND SUBSEQUENT STRUCTURES DESIGN BULLETINS, THE FDOT STRUCTURAL DESIGN STANDARD INDEXES/DRAWINGS, 2015, AS AMENDED BY CONTRACT DOCUMENTS, AND ALL SUBSEQUENT INTERIMS.
- VERTICAL DATUM IS CITY OF MIAMI DATUM.
- ENVIRONMENT IS CLASSIFIED AS EXTREMELY AGGRESSIVE.
- MATERIALS
  - BULKHEADS REINFORCED C.I.P. CONCRETE CAP: CONCRETE CLASS V(SPECIAL) f'c = 6,000psi, WITH SILICA FUME, METAKAOLIN, OR ULTRA FINE FLY ASH.
- CONCRETE COVER
  - 3" CLEAR COVER, COVER DOES NOT INCLUDE TOLERANCES. REFER TO FDOT SPECIFICATION 415 FOR ALLOWABLE TOLERANCES.
- PLAN DIMENSIONS
  - ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.
- UTILITIES
  - LOCATIONS AND ELEVATIONS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS.
  - FOR STORM DRAINS AND OTHER UTILITIES, FOLLOW GENERAL NOTES ON PROCEDURES INVOLVING EXISTING UTILITIES.
- JOINTS IN CONCRETE: CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT THE LOCATIONS INDICATED IN THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE APPROVAL OF THE ENGINEER.
- CUT AND FILL OPERATIONS
  - THE CONTRACTOR SHALL NOTIFY ADJACENT OWNERS AND INVOLVED UTILITIES IN WRITING TWO (2) WEEKS BEFORE EXCAVATION OPERATIONS BEGIN.
  - QUANTITIES FOR CUT AND FILL SHOWN IN THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR BEFORE BIDDING.
  - ANY EXCAVATED MATERIAL THAT IS DEEMED BY THE ENGINEER UNSUITABLE FOR FILLING SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR AT AN APPROVED FACILITY OR DUMP SITE. THE COST FOR DISPOSAL OF UNSUITABLE MATERIAL SHALL BE INCLUDED IN THE COST OF CUT AND FILL.

**MICRO-MESH NOTES:**

- CONTRACTOR SHALL INSTALL GRATINGS IN ACCORDANCE WITH MANUFACTURER'S ASSEMBLY DRAWINGS. PANELS ARE TO BE SUPPORTED WITH GRATING LEGS IN EACH CORNER OR OTHER EQUIVALENT SUPPORT MECHANISM. LOCK GRATING PANELS SECURELY IN PLACE WITH HOLD-DOWN FASTENERS OR AS SPECIFIED HEREIN. FIELD CUT AND DRILL FIBERGLASS REINFORCED PLASTIC PRODUCTS WITH CARBIDE OR DIAMOND TIPPED BITS AND BLADES. SEAL CUT OR DRILLED SURFACES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FOLLOW MANUFACTURER'S INSTRUCTIONS WHEN CUTTING OR DRILLING FIBERGLASS PRODUCTS OR USING RESIN PRODUCTS; PROVIDE ADEQUATE VENTILATION.
- HOLD DOWN CLIPS: GRATINGS MUST BE MECHANICALLY FASTENED IN PLACE TO PREVENT SLIDING. EACH GRATING PANEL SHOULD BE FASTENED TO EACH SUPPORTING WOOD STRINGER/STRUCTURE USING A MINIMUM OF FOUR "M" STYLE HOLD DOWN CLIPS. FOR LARGER PANELS, 6 TO 8 HOLD DOWN CLIPS ARE RECOMMENDED.

**UTILITY COMPANY CONTACT LIST:**

COMCAST CABLE	LEONARD MAXWELL-NEWBOLD	305-951-7669	LEONARD_MAXWELL-NEWBOLD@CABLE.COMCAST.COM
FLORIDA POWER AND LIGHT-DADE	MARIO ESCALONA	305-219-9143	MARIO.ESCALONA@FPL.COM
DADE COUNTY PUBLIC WORKS AND TRAFFIC	OCTAVIO VIDAL	305-412-0891	LPRIDEMORE@HTLOCATING.COM
TECO PEOPLES GAS SOUTH FLORIDA	ALEX ROCHE	954-453-0824	ARROCHE@TECOENERGY.COM
MIAMI-DADE WATER AND SEWER	MARIA CAPOTE	786-268-5329	MARIA.CAPOTE@MIAMIDADE.GOV
AT&T DISTRIBUTION	STEVE LOW	305-222-8745	SL4504@ATT.COM

<p style="text-align: center;"><i>REVISIONS</i></p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			DATE	BY	DESCRIPTION				<p>EOR</p> <p style="text-align: center;">Francisco J. Alonso, P.E. No. 66918</p> <p><b>T·Y·LIN INTERNATIONAL</b></p>	 <p><b>CITY OF MIAMI</b> CAPITAL IMPROVEMENTS PROGRAM</p> <p>444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253</p>	<p style="text-align: center;"><b>CITY OF MIAMI</b> CAPITAL IMPROVEMENTS PROGRAM</p> <table border="1"> <thead> <tr> <th>PROJECT NAME</th> <th>PROJECT No.</th> </tr> </thead> <tbody> <tr> <td>LEGION PARK SEAWALL &amp; BOAT RAMP 6447 NE 7th Ave, Miami, FL 33138</td> <td>B-40510</td> </tr> </tbody> </table>	PROJECT NAME	PROJECT No.	LEGION PARK SEAWALL & BOAT RAMP 6447 NE 7th Ave, Miami, FL 33138	B-40510	<p style="text-align: center;"><b>GENERAL NOTES</b></p> <p style="text-align: center;">G-4</p>
DATE	BY	DESCRIPTION														
PROJECT NAME	PROJECT No.															
LEGION PARK SEAWALL & BOAT RAMP 6447 NE 7th Ave, Miami, FL 33138	B-40510															

**FENCE AND GATE NOTES**

**PART 1 - GENERAL**

**1.01 WORK INCLUDED**

THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND APPURTENANCES NECESSARY FOR INSTALLATION OF THE WELDED ORNAMENTAL STEEL FENCE SYSTEM DEFINED HEREIN AT LEGION PARK BOAT RAMP.

**1.02 RELATED WORK**

EARTHWORK - POST FOOTINGS SHALL BE 4XPOST WIDTH DIAMETER X 36"DEEP. SOIL AT EXCAVATION SHALL BE THOROUGHLY COMPACTED. CARE SHALL BE TAKEN TO INSURE PROPER ALIGNMENT AND PLUM INSTALLATION. WASTE MATERIAL FROM EXCAVATION SHALL BE SPREAD AS DIRECTED ON SITE, OR REMOVED AS DIRECTED BY THE OWNER.

CONCRETE - POST SHALL BE SET IN 3000 PSI CONCRETE. ALL POST WILL BE SET IN CONCRETE FOOTINGS WITH ALLOWANCE FOR A MINIMUM OF 6" OF CONCRETE BETWEEN BOTTOM OF POST AND BOTTOM OF CONCRETE FOOTING. ALL FOOTING SHALL EXTEND 2" ABOVE FINISHED GRADE AND SHALL BE CROWNED TO SHED WATER. SPATTERED CONCRETE WILL BE REMOVED FROM ALL FENCE MATERIAL.

**1.03 SYSTEM DESCRIPTION**

THE MANUFACTURER SHALL SUPPLY A TOTAL FENCE SYSTEM OF MONTAGE® STANDARD PICKET SPACE WELDED AND RACKABLE OR APPROVED EQUAL (ATF - ALL TERRAIN FLEXIBILITY) ORNAMENTAL STEEL CLASSIC™ DESIGN OR APPROVED EQUAL). THE SYSTEM SHALL INCLUDE ALL COMPONENTS (I.E., PANELS, POSTS, GATES AND HARDWARE) REQUIRED.

**1.04 QUALITY ASSURANCE**

THE CONTRACTOR SHALL PROVIDE LABORERS AND SUPERVISORS WHO ARE THOROUGHLY FAMILIAR WITH THE TYPE OF CONSTRUCTION INVOLVED AND MATERIALS AND TECHNIQUES SPECIFIED.

**1.05 REFERENCES**

- ASTM A653/A653M - STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOY COATED (GALVANNEALED) BY THE HOT-DIP PROCESS.
- ASTM B117 - PRACTICE FOR OPERATING SALT-SPRAY (FOG) APPARATUS.
- ASTM D523 - TEST METHOD FOR SPECULAR GLOSS.
- ASTM D714 - TEST METHOD FOR EVALUATING DEGREE OF BLISTERING IN PAINT.
- ASTM D822 - PRACTICE FOR CONDUCTING TESTS ON PAINT AND RELATED COATINGS AND MATERIALS USING FILTERED OPEN-FLAME CARBON-ARC LIGHT AND WATER EXPOSURE APPARATUS.
- ASTM D1654 - TEST METHOD FOR EVALUATION OF PAINTED OR COATED SPECIMENS SUBJECTED TO CORROSIVE ENVIRONMENTS.
- ASTM D2244 - TEST METHOD FOR CALCULATION OF COLOR DIFFERENCES FROM INSTRUMENTALLY MEASURED COLOR COORDINATES.
- ASTM D2794 - TEST METHOD FOR RESISTANCE OF ORGANIC COATINGS TO THE EFFECTS OF RAPID DEFORMATION (IMPACT).
- ASTM D3359 - TEST METHOD FOR MEASURING ADHESION BY TAPE TEST.
- ASTM F2408 - ORNAMENTAL FENCES EMPLOYING GALVANIZED STEEL TUBULAR PICKETS.

**1.06 SUBMITTAL**

THE MANUFACTURER'S LITERATURE SHALL BE SUBMITTED PRIOR TO INSTALLATION.

**1.07 PRODUCT HANDLING AND STORAGE**

UPON RECEIPT AT THE JOB SITE, ALL MATERIALS SHALL BE CHECKED TO ENSURE THAT NO DAMAGE OCCURRED DURING SHIPPING OR HANDLING. MATERIALS SHALL BE STORED IN SUCH A MANNER TO ENSURE PROPER VENTILATION AND DRAINAGE, AND TO PROTECT AGAINST DAMAGE, WEATHER, VANDALISM AND THEFT.

**1.08 PRODUCT WARRANTY**

A. ALL STRUCTURAL FENCE COMPONENTS (I.E. RAILS, PICKETS, AND POSTS) SHALL BE WARRANTED WITHIN SPECIFIED LIMITATIONS, BY THE MANUFACTURER AS STATED IN THE MONTAGE PRODUCT WARRANTY. WARRANTY SHALL COVER ANY DEFECTS IN MATERIAL FINISH, INCLUDING CRACKING, PEELING, CHIPPING, BLISTERING OR CORRODING.

B. REIMBURSEMENT FOR LABOR NECESSARY TO RESTORE OR REPLACE COMPONENTS THAT HAVE BEEN FOUND TO BE DEFECTIVE UNDER THE TERMS OF MANUFACTURES WARRANTY SHALL BE GUARANTEED FOR FIVE (5) YEARS FROM DATE OF ORIGINAL PURCHASE.

**PART 2 - MATERIALS**

**2.01 MANUFACTURER**

THE FENCE SYSTEM SHALL CONFORM TO MONTAGE® STANDARD CLASSIC™ PICKET SPACE WELDED AND RACKABLE BY AMERISTAR PERIMETER SECURITY USA INC. OR APPROVED EQUAL (ATF - ALL TERRAIN FLEXIBILITY) ORNAMENTAL STEEL, DESIGN, EXTENDED PICKET BOTTOM RAIL TREATMENT, 3-RAIL STYLE.

**2.02 MATERIAL**

A. STEEL MATERIAL FOR FENCE PANELS AND POSTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A653/A653M, WITH A MINIMUM YIELD STRENGTH OF 45,000 PSI (310 MPA) AND A MINIMUM ZINC (HOT-DIP GALVANIZED) COATING WEIGHT OF 0.60 OZ/FT<sup>2</sup> (184 G/M<sup>2</sup>), COATING DESIGNATION G-60.

B. MATERIAL FOR PICKETS SHALL BE 5/8" SQUARE X 18 GA. TUBING. THE RAILS SHALL BE STEEL CHANNEL, 1.25" X 0.92" X 14 GA. PICKET HOLES IN THE RAIL SHALL BE SPACED (SPECIFY 4.334" O.C. FOR STANDARD PICKET SPACE OR 3.500" O.C. FOR 3" AIR SPACE). FENCE POSTS SHALL BE A MINIMUM OF 2" SQUARE X 16 GA. GATE POSTS SHALL MEET THE MINIMUM REQUIREMENTS OF TABLE 1.

**2.03 FABRICATION**

A. PICKETS, RAILS AND POSTS SHALL BE PRE-CUT TO SPECIFIED LENGTHS. RAILS SHALL BE PRE-PUNCHED TO ACCEPT PICKETS.

B. PICKETS SHALL BE INSERTED INTO THE PRE-PUNCHED HOLES IN THE RAILS AND SHALL BE ALIGNED TO STANDARD SPACING USING A SPECIALLY CALIBRATED ALIGNMENT FIXTURE. THE ALIGNED PICKETS AND RAILS SHALL BE JOINED AT EACH PICKET-TO-RAIL INTERSECTION BY AMERISTAR'S PROPRIETARY FUSION WELDING PROCESS, THUS COMPLETING THE RIGID PANEL ASSEMBLY (NOTE: THE PROCESS PRODUCES A VIRTUALLY SEAMLESS, SPATTER-FREE GOOD-NEIGHBOR APPEARANCE, EQUALLY ATTRACTIVE FROM EITHER SIDE OF THE PANEL).

C. THE MANUFACTURED PANELS AND POSTS SHALL BE SUBJECTED TO AN INLINE ELECTRODE POSITION COATING (E-COAT) PROCESS CONSISTING OF A MULTI-STAGE PRETREATMENT/WASH, FOLLOWED BY A DUPLEX APPLICATION OF AN EPOXY PRIMER AND AN ACRYLIC TOPCOAT. THE MINIMUM CUMULATIVE COATING THICKNESS OF EPOXY AND ACRYLIC SHALL BE 2 MILS (0.058 MM). THE COLOR SHALL BE BLACK. THE COATED PANELS AND POSTS SHALL BE CAPABLE OF MEETING THE PERFORMANCE REQUIREMENTS FOR EACH QUALITY CHARACTERISTIC SHOWN IN TABLE 2 (NOTE: THE REQUIREMENTS IN TABLE 2 MEET OR EXCEED THE COATING PERFORMANCE CRITERIA OF ASTM F2408).

D. THE MANUFACTURED FENCE SYSTEM SHALL BE CAPABLE OF MEETING THE VERTICAL LOAD, HORIZONTAL LOAD, AND INFILL PERFORMANCE REQUIREMENTS FOR RESIDENTIAL WEIGHT FENCES UNDER ASTM F2408.

E. GATES SHALL BE FABRICATED USING WELDED ORNAMENTAL PANEL MATERIAL AND GATE ENDS HAVING A 1-1/4" SQUARE CROSS-SECTIONAL SIZE. ALL RAIL AND UPRIGHT INTERSECTIONS SHALL BE JOINED BY WELDING. ALL PICKET AND RAIL INTERSECTIONS SHALL ALSO BE JOINED BY WELDING.

**PART 3 - EXECUTION**

**3.01 PREPARATION**

ALL NEW INSTALLATION SHALL BE LAID OUT BY THE CONTRACTOR IN ACCORDANCE WITH THE CONSTRUCTION PLANS.

**3.02 FENCE INSTALLATION**

FENCE POST SHALL BE SPACED ACCORDING TO PLANS, PLUS OR MINUS 1/2". FOR INSTALLATIONS THAT MUST BE RAKED TO FOLLOW SLOPING GRADES, THE POST SPACING DIMENSION MUST BE MEASURED ALONG THE GRADE. FENCE PANELS SHALL BE ATTACHED TO POSTS WITH BRACKETS SUPPLIED BY THE MANUFACTURER. THE "EARTHWORK" AND "CONCRETE" SECTIONS OF THIS SPECIFICATION SHALL GOVERN MATERIAL REQUIREMENTS FOR THE CONCRETE FOOTER.

**3.03 FENCE INSTALLATION MAINTENANCE**

WHEN CUTTING/DRILLING RAILS OR POSTS ADHERE TO THE FOLLOWING STEPS TO SEAL THE EXPOSED STEEL SURFACES; 1) REMOVE ALL METAL SHAVINGS FROM CUT AREA. 2) APPLY ZINC-RICH PRIMER TO THOROUGHLY COVER CUT EDGE AND/OR DRILLED HOLE; LET DRY. 3) APPLY 2 COATS OF CUSTOM FINISH PAINT MATCHING FENCE COLOR. FAILURE TO SEAL EXPOSED SURFACES PER STEPS 1-3 ABOVE WILL NEGATE WARRANTY. AMERISTAR SPRAY CANS OR PAINT PENS SHALL BE USED TO PRIME AND FINISH EXPOSED SURFACES; IT IS RECOMMENDED THAT PAINT PENS BE USED TO PREVENT OVERSPRAY. USE OF NON-AMERISTAR PARTS OR COMPONENTS WILL NEGATE THE MANUFACTURES' WARRANTY.

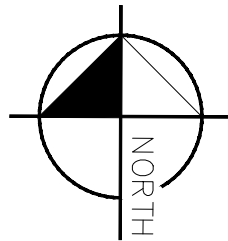
**3.04 GATE INSTALLATION**

GATE POSTS SHALL BE SPACED ACCORDING TO THE MANUFACTURERS' GATE DRAWINGS, DEPENDENT ON STANDARD OUT-TO-OUT GATE LEAF DIMENSIONS AND GATE HARDWARE SELECTED. TYPE AND QUANTITY OF GATE HINGES SHALL BE BASED ON THE APPLICATION; WEIGHT, HEIGHT, AND NUMBER OF GATE CYCLES. THE MANUFACTURERS' GATE DRAWINGS SHALL IDENTIFY THE NECESSARY GATE HARDWARE REQUIRED FOR THE APPLICATION. GATE HARDWARE SHALL BE PROVIDED BY THE MANUFACTURER OF THE GATE AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

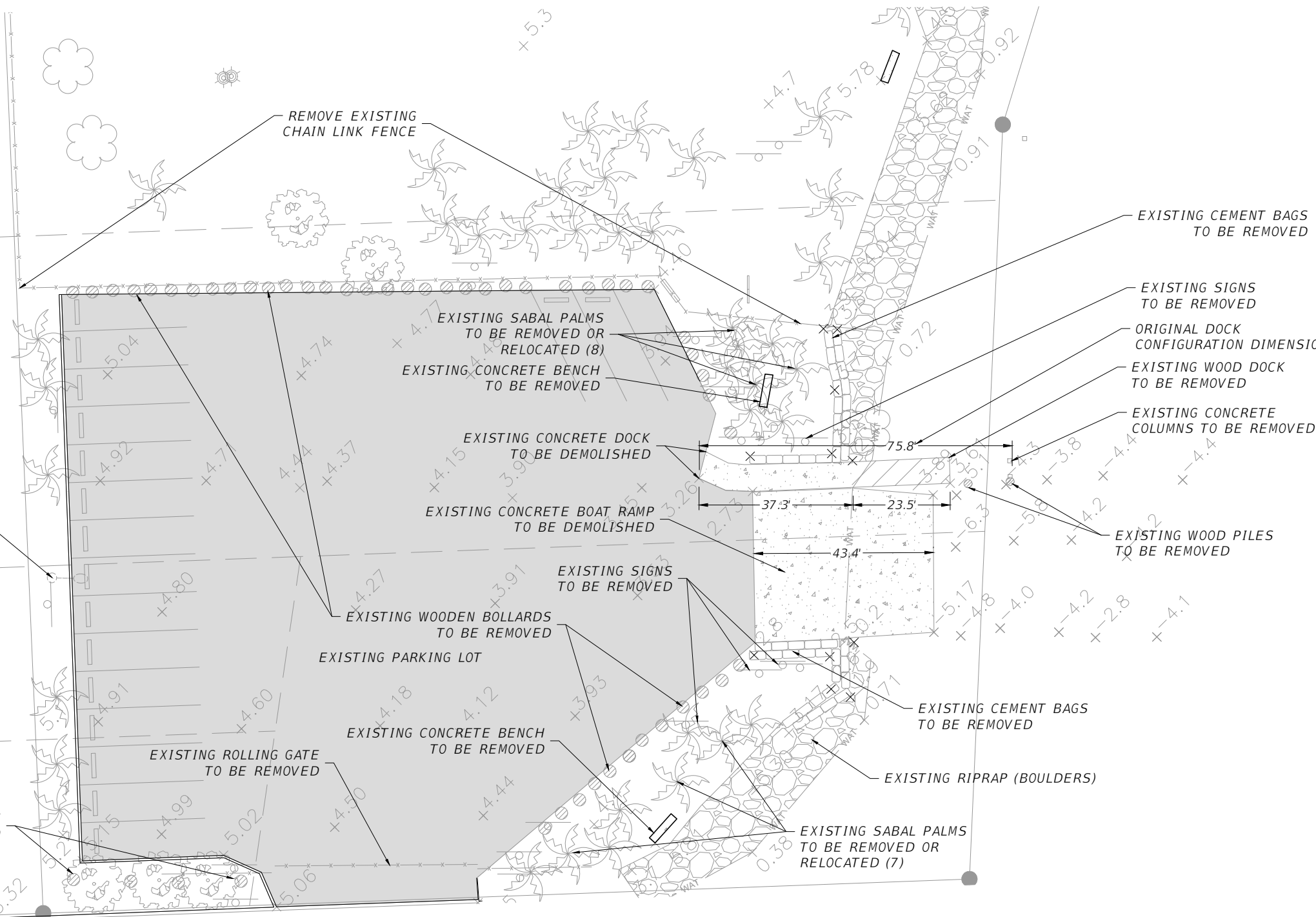
**3.05 CLEANING**

THE CONTRACTOR SHALL CLEAN THE JOBSITE OF EXCESS MATERIALS; POST-HOLE EXCAVATIONS SHALL BE SCATTERED UNIFORMLY AWAY FROM POSTS.

REVISIONS			EOR	 <b>CITY OF MIAMI</b> CAPITAL IMPROVEMENTS PROGRAM 444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253	CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM		GENERAL NOTES	SHEET NO.  G-5
DATE	BY	DESCRIPTION			PROJECT NAME	PROJECT No.		
			Francisco J. Alonso, P.E. No. 66918	 <b>T·Y·LIN INTERNATIONAL</b>	LEGION PARK SEAWALL & BOAT RAMP 6447 NE 7th Ave, Miami, FL 33138	B-40510		



SCALE 1"=30'



EXISTING LIGHT POLE TO BE REMOVED AND DISPOSED

REMOVE EXISTING CHAIN LINK FENCE

EXISTING SABAL PALMS TO BE REMOVED OR RELOCATED (8)  
EXISTING CONCRETE BENCH TO BE REMOVED

EXISTING CONCRETE DOCK TO BE DEMOLISHED

EXISTING CONCRETE BOAT RAMP TO BE DEMOLISHED

EXISTING SIGNS TO BE REMOVED

EXISTING WOODEN BOLLARDS TO BE REMOVED

EXISTING PARKING LOT

EXISTING CONCRETE BENCH TO BE REMOVED

EXISTING ROLLING GATE TO BE REMOVED

EXISTING WOODEN BOLLARDS TO BE REMOVED

EXISTING CEMENT BAGS TO BE REMOVED

EXISTING SIGNS TO BE REMOVED

ORIGINAL DOCK CONFIGURATION DIMENSION

EXISTING WOOD DOCK TO BE REMOVED

EXISTING CONCRETE COLUMNS TO BE REMOVED

EXISTING WOOD PILES TO BE REMOVED

EXISTING CEMENT BAGS TO BE REMOVED

EXISTING RIPRAP (BOULDERS)

EXISTING SABAL PALMS TO BE REMOVED OR RELOCATED (7)

EXISTING PAVEMENT TO BE REMOVED

WAT ——— EDGE OF WATER

REVISIONS	
DATE	DESCRIPTION

EOR  
Francisco J. Alonso, P.E.  
No. 66918  
**T.Y. LIN INTERNATIONAL**



**CITY OF MIAMI**  
CAPITAL IMPROVEMENTS PROGRAM  
444 S.W. 2ND AVENUE, 8TH FLOOR  
MIAMI, FLORIDA 33130  
(305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
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LEGION PARK SEAWALL & BOAT RAMP 6447 NE 7th Ave, Miami, FL 33138	B-40510

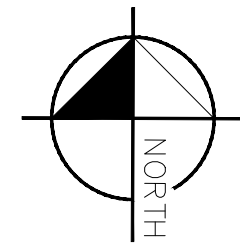
**DEMOLITION PLAN**

SHEET NO.  
G-6

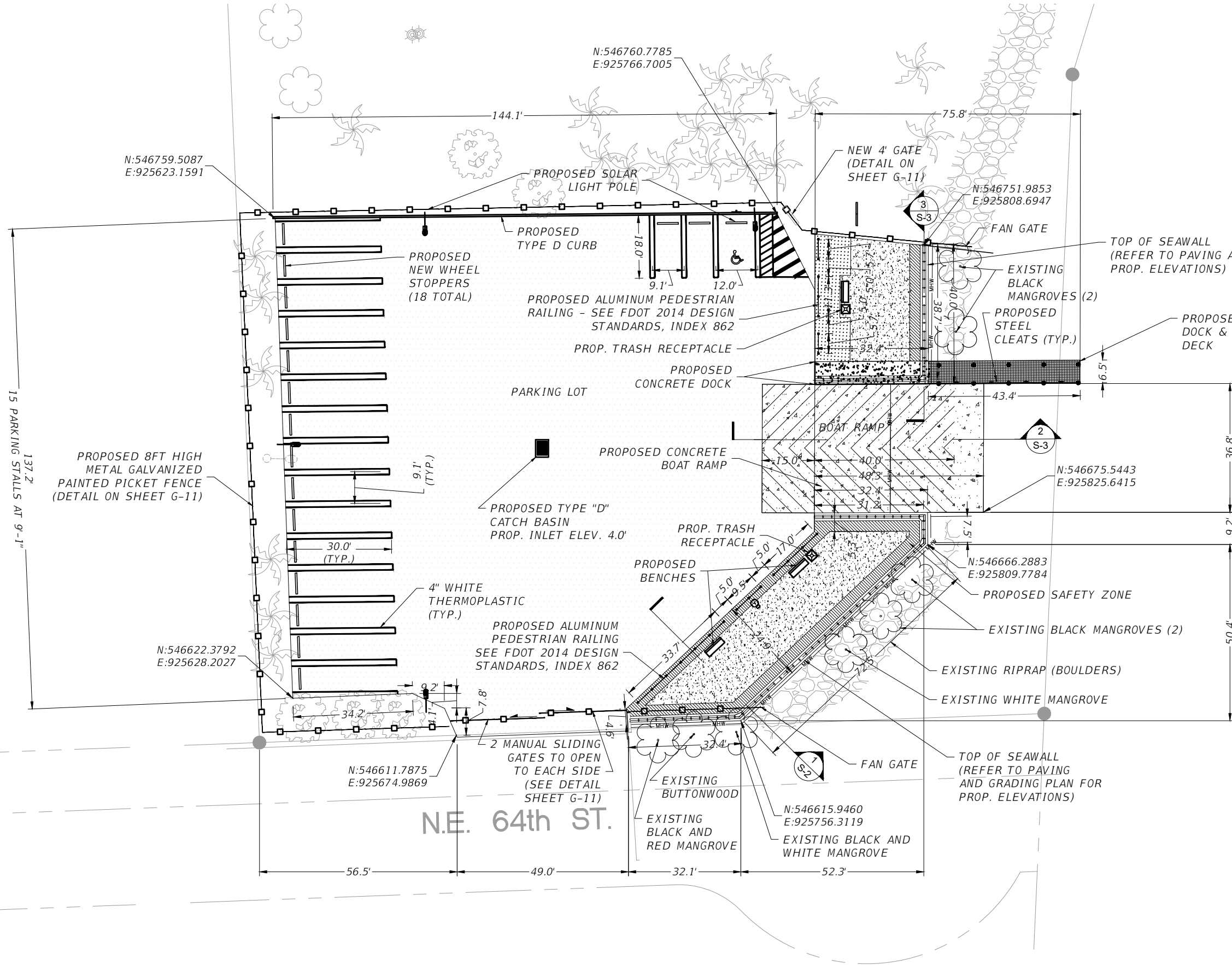
SAJ-2001-04039 Legion Park (Sheet 6 of 18) UPDATED 07/06/2017

NOT FOR CONSTRUCTION PERMITS PLANS





SCALE 1"=30'



- PROPOSED POLYETHYLENE SLEAVED 12" Ø WOOD PILES
- PROPOSED ALUMINUM PEDESTRIAN RAILING FDOT 2014 DESIGN STANDARDS INDEX 862
- PROPOSED SOLAR LIGHTING
- PROPOSED MICRO MESH DECK
- PROPOSED CONCRETE DOCK/ABUTMENT
- PROPOSED CONCRETE BOAT RAMP AND RAMP APPROACH WITH GROOVES
- PROPOSED SAFETY ZONE
- PROPOSED SEAWALL
- PROPOSED GRASS AREA
- PROPOSED CIRCULATION ZONE
- PAVEMENT RECONSTRUCTION/RESURFACING (SEE SHEET G-7)
- PROPOSED FENCE
- MHW MHW MEAN HIGH WATER LEVEL

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Francisco J. Alonso, P.E.  
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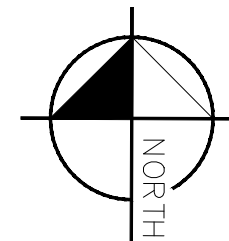
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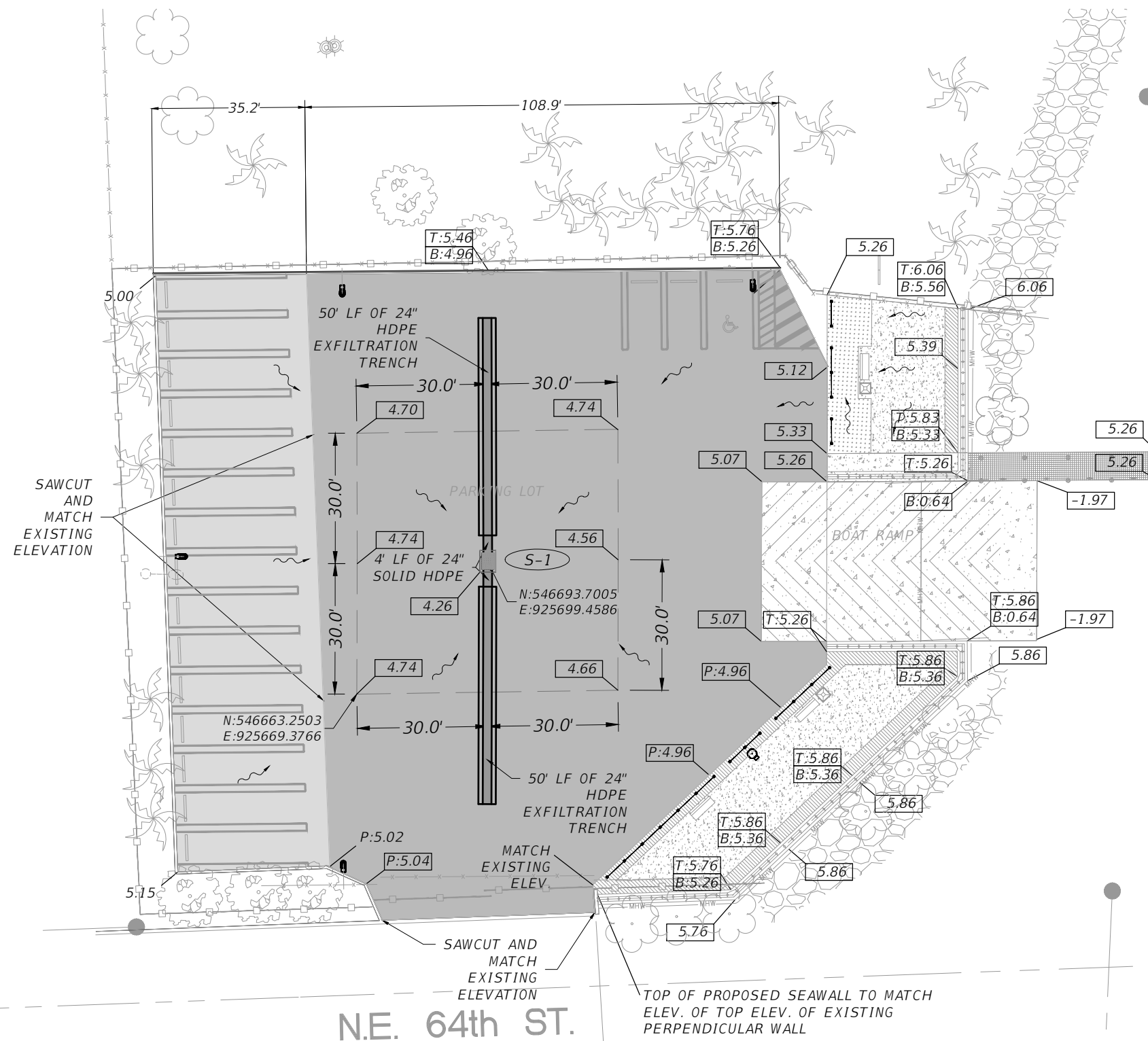
**SITE PLAN**

SHEET NO.  
**G-7**

NOT FOR CONSTRUCTION PERMITS PLANS















SCALE 1"=30'



\*NOTE: EXISTING AND PROPOSED ELEVATIONS SHOWN ARE BASED ON CITY OF MIAMI DATUM

**S-1** CITY OF MIAMI TYPE D-4 INLET  
 GRATE ELEV. = +4.26  
 INV. N. = -0.74  
 INV. S. = -0.74  
 BOT. = -2.74

-  PROPOSED MICRO MESH DECKING
-  PROPOSED CONCRETE DOCK
-  PROPOSED CONCRETE BOAT RAMP AND RAMP APPROACH WITH GROOVES
-  PROPOSED SAFETY ZONE
-  PROPOSED SEAWALL & BULKHEAD
-  PROPOSED GRASS AREA
-  PROPOSED CIRCULATION ZONE
-  PAVEMENT RECONSTRUCTION
-  MILL AND RESURFACE PAVEMENT
-  X.XX PROPOSED GRADE ELEVATION (CITY OF MIAMI DATUM)
-  T:X.XX  
B:X.XX PROPOSED GRADE ELEVATION - TOP ELEVATION, BOTTOM ELEVATION ((CITY OF MIAMI DATUM)
-  X.XX EXISTING ELEVATION TO MATCH (CITY OF MIAMI DATUM)

NOT FOR CONSTRUCTION PERMITS PLANS

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 No. 66918  
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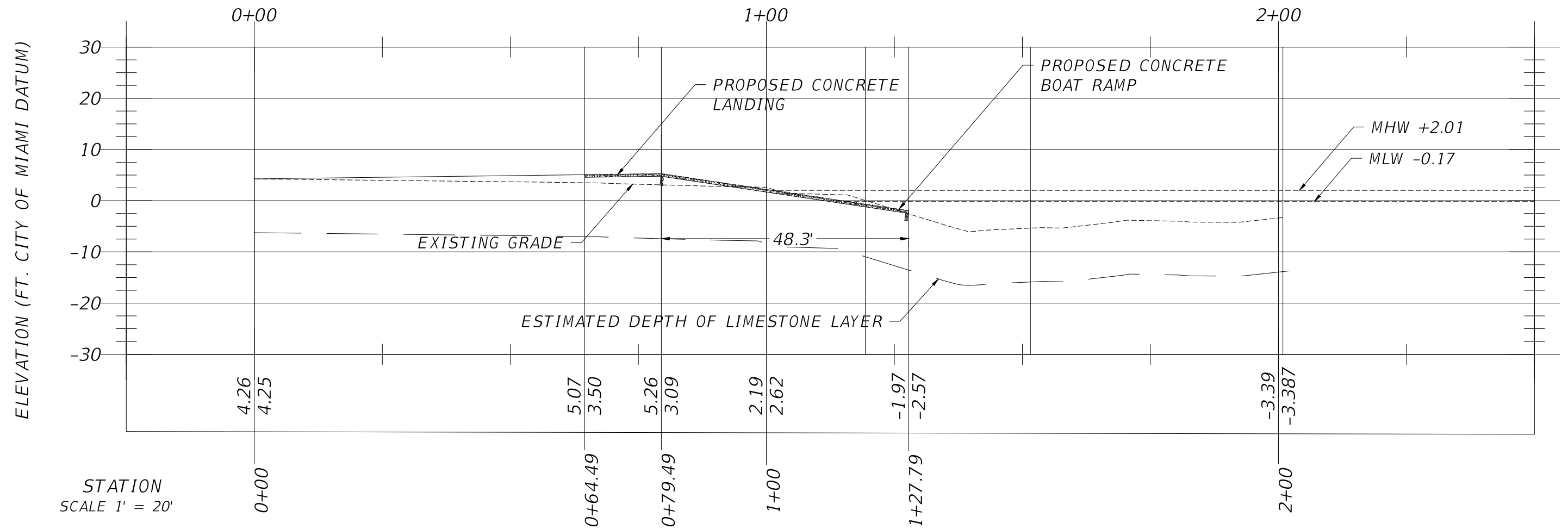
**CITY OF MIAMI**  
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**PAVING, GRADING & DRAINAGE**

SHEET NO.  
**G-8**

# CONCRETE BOAT RAMP PROFILE

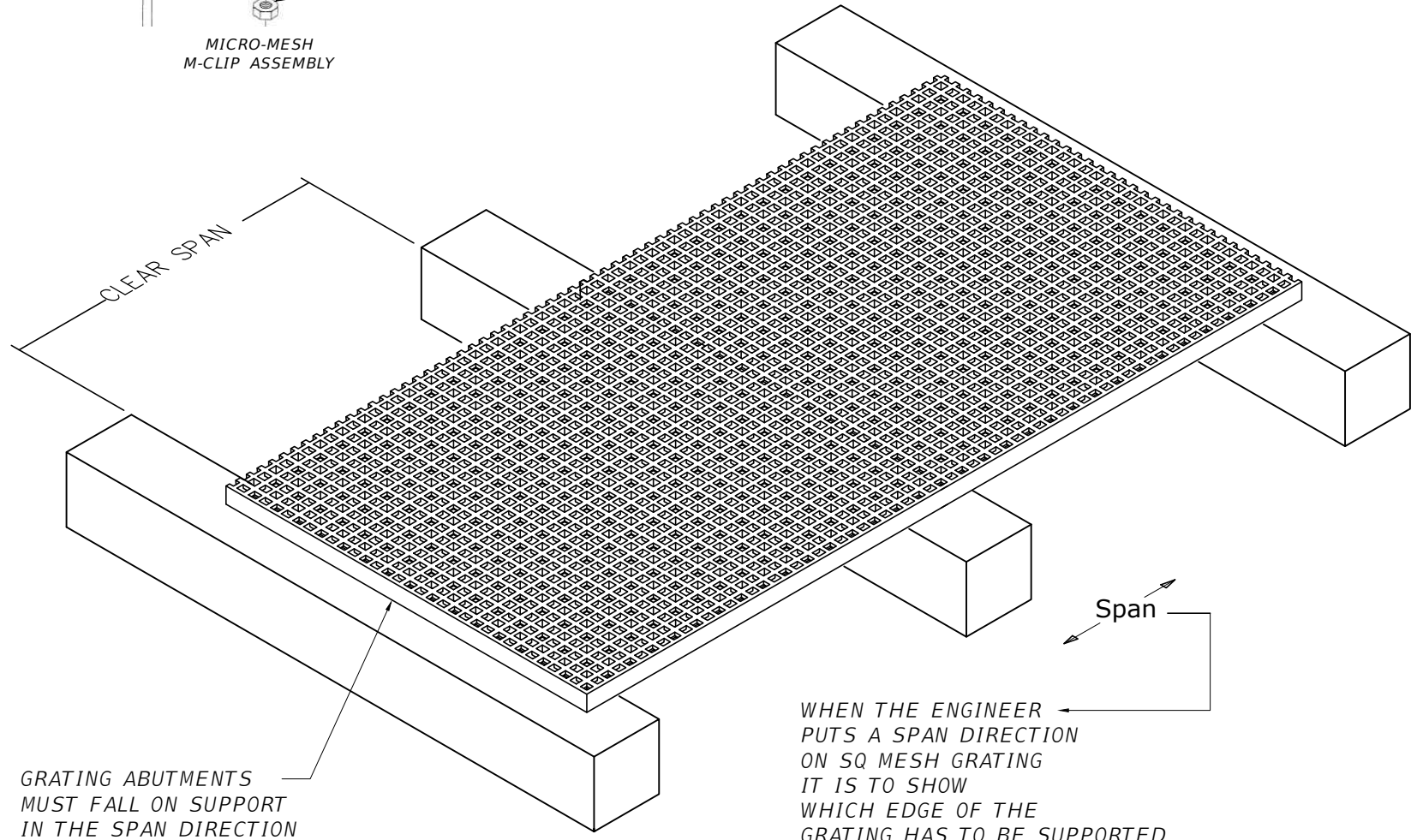
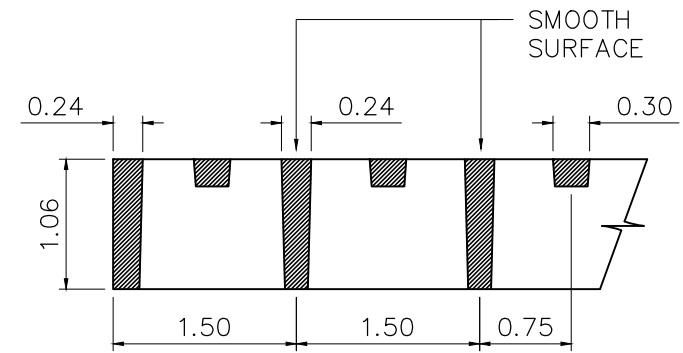
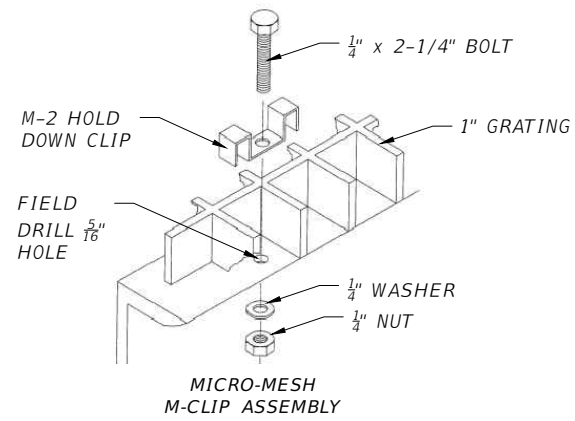
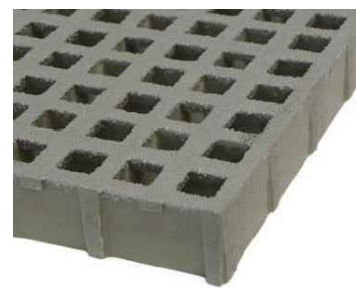
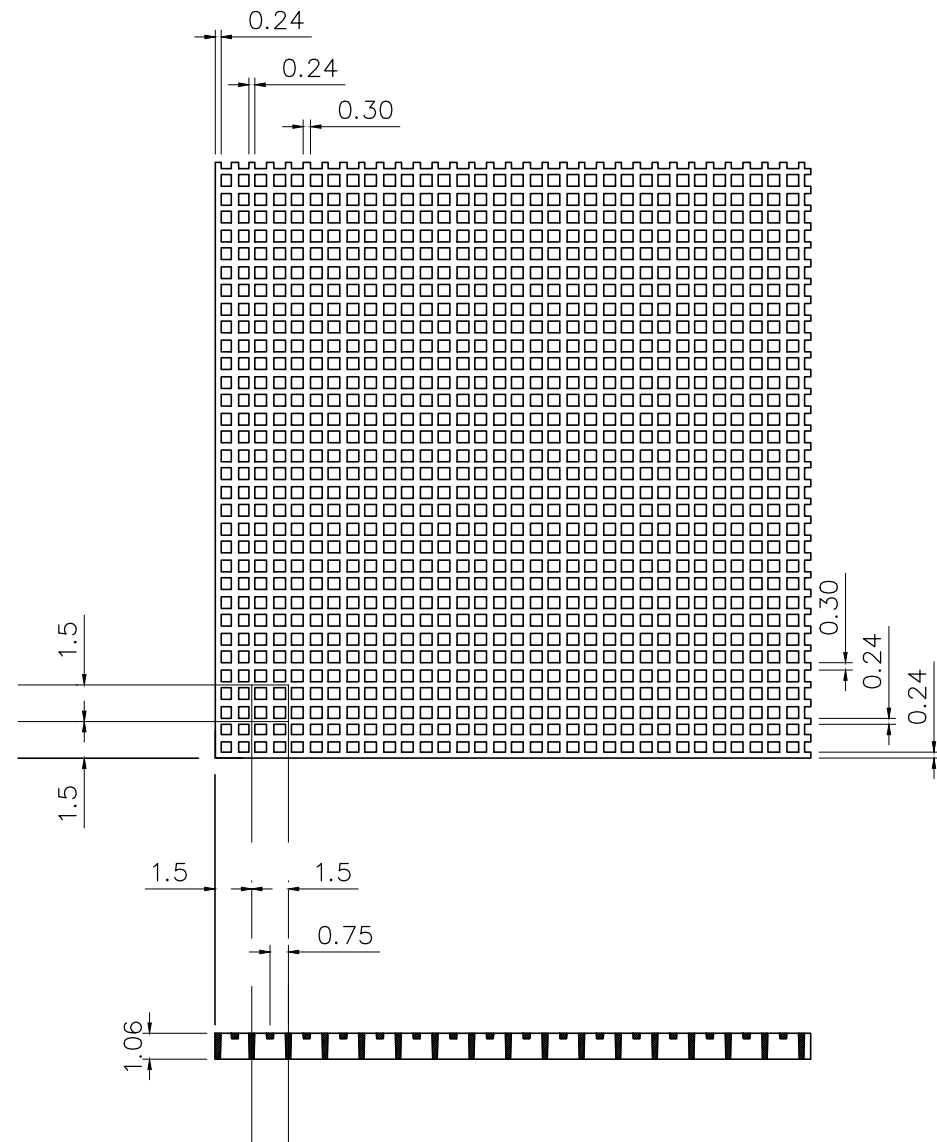


NOT FOR CONSTRUCTION PERMITS PLANS

REVISIONS		EOR	<b>CITY OF MIAMI</b> CAPITAL IMPROVEMENTS PROGRAM	<b>CITY OF MIAMI</b> CAPITAL IMPROVEMENTS PROGRAM		CONCRETE BOAT RAMP PROFILE	SHEET NO.
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		Francisco J. Alonso, P.E. No. 66918 <b>T·Y·LIN INTERNATIONAL</b>	444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253	LEGION PARK SEAWALL & BOAT RAMP 6447 NE 7th Ave, Miami, FL 33138	B-40510		



PANEL SIZES: 4'x12'



**MICRO MESH DETAIL**  
MICRO-MESH 1" DEEP X 3/4" TOP SQ MESH MOLDED GRATING



NOT FOR CONSTRUCTION PERMITS PLANS

REVISIONS	
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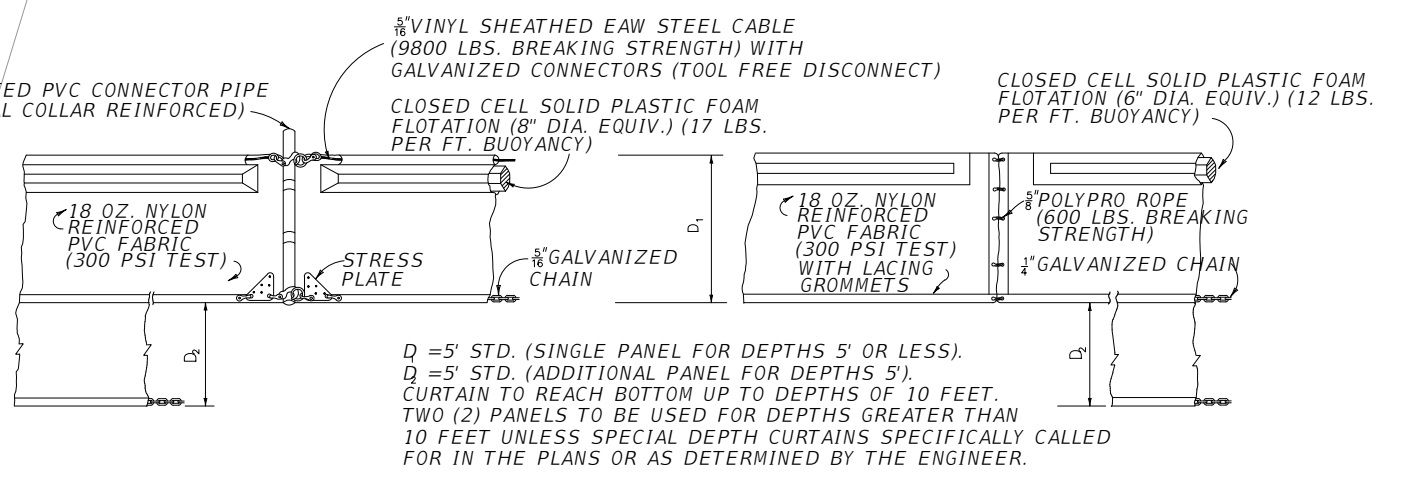
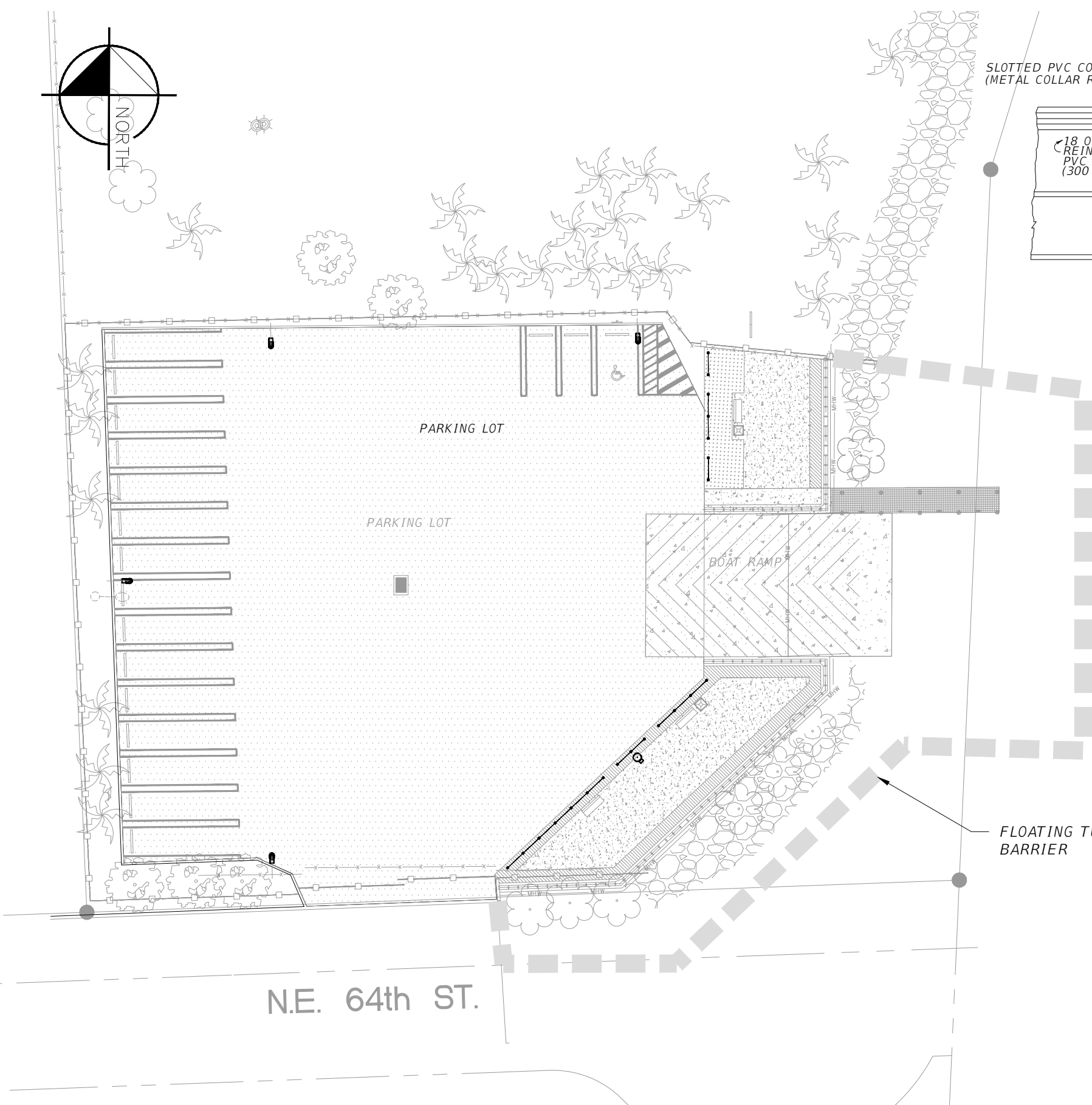
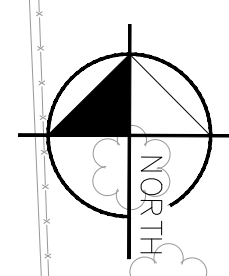
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**MICRO-MESH INSTALLATION DETAIL**

SHEET NO.  
**G-14**



### FLOATING TURBIDITY BARRIERS



BISCAYNE BAY

FLOATING TURBIDITY BARRIER

N.E. 64th ST.

#### TURBIDITY BARRIER NOTES

- 1. TURBIDITY CURTAINS SHALL BE DEPLOYED IN A MANNER NOT TO ENTANGLE OR HARM MANATEES.
- 2. TURBIDITY SHALL BE MONITORED AS OUTLINED IN THE REGULATORY PERMITS.
- 3. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF THE WATER DEPTH.
- 4. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
- 5. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
- 6. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.

#### EROSION/SEDIMENT CONTROL NOTES

THE PURPOSE OF EROSION CONTROL IS TO PREVENT POLLUTION OF BODIES OF WATER ON OR ADJACENT TO THE PROJECT SITE. IN ADDITION, EROSION CONTROL SHALL PREVENT DAMAGE TO ADJACENT PROPERTY, AND WORK IN PROGRESS. ALL EROSION AND SILTATION MEASURES ARE TO BE PLACED PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INSPECT ALL EROSION CONTROL DEVICES PERIODICALLY AND AFTER EVERY RAINFALL. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY.

REVISIONS	
DATE	DESCRIPTION

EOB  
**Francisco J. Alonso, P.E.**  
No. 66918  
**T·Y·LIN INTERNATIONAL**



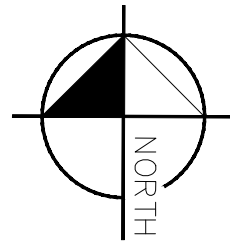
**CITY OF MIAMI**  
CAPITAL IMPROVEMENTS PROGRAM  
444 S.W. 2ND AVENUE, 8TH FLOOR  
MIAMI, FLORIDA 33130  
(305) 416-1213 FAX (305) 416-1253

CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT NO.
LEGION PARK SEAWALL & BOAT RAMP 6447 NE 7th Ave, Miami, FL 33138	B-40510

**TURBIDITY CONTROL**

SHEET NO.  
**G-15**

NOT FOR CONSTRUCTION PERMITS PLANS



ONE (1) SIGN



ONE (1) SIGN

CAUTION BOATERS (2009)  
MINIMUM SIZE SHOULD BE 30" TALL X 24" WIDE WITH ROUNDED CORNERS



ONE (1) SIGN

FLORIDA FRIENDLY BOATING (2009)  
MINIMUM SIZE SHOULD BE 30" TALL X 36" WIDE WITH ROUNDED CORNERS



THREE (3) SIGNS



PARKING LOT

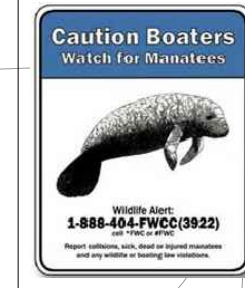
PARKING LOT

BOAT RAMP

NE. 64th ST.

TWO (2) SIGNS

CAUTION BOATERS (2009)  
MINIMUM SIZE SHOULD BE 30" TALL X 24" WIDE WITH ROUNDED CORNERS



NOTE:  
CAUTION BOATERS AND FLORIDA FRIENDLY BOATING SIGNS SHALL FACE LANDSIDE (TOWARDS PARKING LOT) THEY CANNOT FACE WATER

NOT FOR CONSTRUCTION PERMITS PLANS

REVISIONS	
DATE	BY

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**SIGNS**

SHEET NO.  
**G-16**



# STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT
ADD'L	ADDITIONAL
ACI	AMERICAN CONCRETE INSTITUTE
ALUM	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
APPROX	APPROXIMATE
B/EL	BOTTOM ELEVATION
BOTT	BOTTOM
BRG	BEARING
CL	CENTER LINE
CJ	CONTROL JOINT
CLR	CLEAR
CONC	CONCRETE
CONT	CONTINUOUS
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
ELEV	ELEVATION
EMBED	EMBEDMENT
EW	EACH WAY
EXP	EXPANSION
EXT	EXTERIOR
FDN	FOUNDATION
FT	FEET
FTG	FOOTING
GALV	GALVANIZED
IN	INCHES
INT	INTERIOR
JT	JOINT
KIP	KIPS (1 KIP = 1,000 LBS.)
K/FT	KIPS PER FOOT
KSF	KIPS PER SQUARE FOOT
L	LENGTH
LBS	POUNDS
LL	LIVE LOAD
MAT'L	MATERIAL
MAX	MAXIMUM
MFG	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MPH	MILES PER HOUR
MWFRS	MAIN WIND FORCE RESISTING SYSTEM
#	NUMBER SYMBOL FOR REBAR SIZE
NTS	NOT TO SCALE
OC	ON CENTER
PCF	POUNDS PER CUBIC FOOT
PL or PL	PLATE
PEJ	PREFORMED EXPANSION JOINT MATERIAL
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PT	PRESSURE TREATED WOOD
PVC	POLYVINYL CHLORIDE
REF	REFERENCE
REINF	REINFORCED
REQ'D	REQUIRED
REV	REVISION
STN STL	STAINLESS STEEL
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
T	TOP
T/	TOP OF
T/ELEV	TOP ELEVATION
T&B	TOP AND BOTTOM
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WWF	WELD WIRE FABRIC

# GENERAL NOTES

- THE FOLLOWING NOTES APPLY, UNLESS OTHERWISE NOTED OR SHOWN ON PLANS.
- WORK SHALL COMPLY WITH THE MIAMI 21 ZONING CODE, AND THE 2014 EDITION OF THE FLORIDA BUILDING CODE WITH FLORIDA DEPARTMENT OF TRANSPORTATION MODIFICATIONS (2015).
  - SECTIONS AND DETAILS SHOWN ON DRAWINGS ARE TYPICAL. USE SIMILAR CONSTRUCTION AT LOCATIONS NOT SPECIFICALLY DETAILED.
  - THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & DIMENSIONS PRIOR TO THE START OF WORK.
  - PROTECTION OF EXISTING STRUCTURES DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
  - INSTALL MATERIALS PER MANUFACTURERS' RECOMMENDATIONS AND SPECIFICATIONS.
  - DRAWINGS HEREIN ARE BASED ON GEOTECHNICAL REPORT BY NV5 DATED DECEMBER 1, 2016. BORINGS INDICATE LIMESTONE AT A DEPTH OF 10.5± BELOW EXISTING GRADE. SEE NOTES FOR PILE DRIVING REGARDING TIMBER PILES AND PRECAST CONCRETE SHEET PILES.

# DESIGN NOTES:

- DESIGN CRITERIA
  - DOCK/PIER LIVE LOADS: (FDOT STANDARDS) TYPICAL UNLESS NOTED OTHERWISE 100 PSF
  - WIND LOADS: (ASCE 7-10, CHAPTER 7)
 

BASIC WIND SPEED	170 MPH
RISK CATEGORY	I
WIND EXPOSURE	D
INTERNAL PRESSURE COEFFICIENT	N/A (OPEN STRUCTURE)

# CONCRETE NOTES

- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE TO SECTION 346 OF THE FDOT SPECIFICATIONS.
- CONSTRUCTION OF ALL STRUCTURAL FOUNDATIONS TO FOLLOW SECTION 455 OF FDOT SPECIFICATIONS.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF:
 

PRECAST SHEETPILES	6000 PSI
BULKHEAD	6000 PSI
REMAINING CAST-IN-PLACE	4000 PSI
- PORTLAND CEMENT USED FOR CONCRETE WORK SHALL COMPLY WITH ASTM C-150 FOR TYPE I/II CEMENT.
- NORMAL WEIGHT CONCRETE SHALL CONTAIN FINE AND COARSE AGGREGATES COMPLYING WITH ASTM C-33. THE MAXIMUM SIZE OF COARSE AGGREGATES SHALL BE OF SIZES SUITABLE FOR PLACEMENT IN STRUCTURAL ELEMENTS CONSIDERING THEIR SIZE AND REINFORCEMENT CONFIGURATION.
- REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BARS COMPLYING WITH ASTM A615. WELDED WIRE FABRIC SHALL BE GRADE 65 PLAIN WIRE CONFORMING TO ASTM A185.
- CHAMFER EXPOSED CORNERS OF CONCRETE 3/4 INCH.
- CLEAN REINFORCING OF LOOSE RUST, MILL SCALE, DIRT, OR ANY OTHER FOREIGN MATERIAL. ACCURATELY POSITION, SUPPORT AND SECURE REINFORCEMENT.
- MINIMUM CONCRETE PROTECTIVE COVER FOR REINFORCEMENT SHALL BE 1.5".

# CONCRETE REINFORCEMENT NOTES

- ALL REINFORCING STEEL TO BE IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 415.
- REINFORCEMENT WORK OF DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)", "ACI DETAILING MANUAL (SP-66)", "CRSI MANUAL OF STANDARD PRACTICE (MSP 1)" AND "STRUCTURAL WELDING CODE - REINFORCING STEEL (AWS D1.4)".
- STEEL REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL COMPLY TO ASTM A615 GRADE 60 (Fy = 60,000 PSI). REINFORCING TO BE WELDED SHALL COMPLY TO ASTM A706 (Fy = 60,000 PSI) OR MILL TEST REPORTS SHALL BE SUBMITTED SHOWING CARBON EQUIVALENT.
- MINIMUM CONCRETE PROTECTIVE COVER FOR REINFORCEMENT SHALL BE AS FOLLOWS UON:
  - CONCRETE CAST AGAINST EARTH . . . . . 3.0"
  - CONCRETE EXPOSED TO WEATHER. . . . . 2.0"
  - ALL OTHER LOCATIONS . . . . . 0.75"
- LAPS SHALL BE CLASS B TENSION LAP SPLICES, FOR #4 BARS AND LARGER UON.
- WHERE REINFORCEMENT IS SHOWN IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES.
- REINFORCEMENT SHALL NOT BE TACK WELDED OR HEATED FOR BENDING.
- INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY CONTRACTING OFFICER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED COMPLETION OF THE INSTALLATION OF REINFORCEMENT.
- CLEAN REINFORCING OF LOOSE RUST, MILL SCALE, DIRT, OR ANY OTHER FOREIGN MATERIAL. ACCURATELY POSITION. PROVIDE SUPPORT BARS AT NOT MORE THAN 4'-0" ON CENTER AND SECURE REINFORCEMENT.

# FOUNDATION NOTES

- SLAB-ON-GRADE/COVERED SHELTER FOUNDATIONS ARE DESIGNED FOR AN ASSUMED ALLOWABLE BEARING CAPACITY OF 2,000 POUNDS PER SQUARE FOOT. CONTRACTOR TEST SOIL TO VERIFY SOIL BEARING CAPACITY PRIOR TO CONSTRUCTION.
- COMPACTED BACKFILL: BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY ACCORDING TO ASTM D1557. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH. DO NOT DAMAGE WALL CONSTRUCTION WITH COMPACTION EQUIPMENT.
- FOUNDATIONS ARE TO BEAR ON COMPACTED "RESIDUAL SOIL" OR ON TESTED, STRUCTURAL BACKFILL (98% MODIFIED PROCTOR VALUE FOR BACKFILL).
- FOUNDATION DESIGN BASED ON GEOTECHNICAL REPORT PREPARED BY NV5, DATED DECEMBER 1, 2016.

# WOOD GENERAL NOTES

- GENERAL: THE FOLLOWING SPECIFICATIONS GOVERN:
  - NDS (2012)
  - AISC (13th Edition)
  - ACI (2011)
- DESIGN CRITERIA:
  - LIVE LOAD ON DECK: 100 PSF
  - DEAD LOAD: 20 PSF
  - DENSITY OF WOOD: 50 lb/Ft<sup>3</sup>
  - 2000 POUNDS MAXIMUM MOORING LOADS PER CLEAT @ 8'-0" MIN.
- ELEVATIONS:
  - ALL ELEVATIONS ARE IN FEET AND TENTHS AND THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO CONSTRUCTION.
  - ALL ELEVATIONS ARE REFERENCED TO N.G.V.D.
- COORDINATION:
  - STRUCTURAL DRAWINGS SHALL BE WORKED TOGETHER WITH CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS. ANY DISCREPANCY WITH THE STRUCTURAL DRAWING SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
  - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD BEFORE PROCEEDING WITH THE WORK.
- TIMBER
  - ALL TIMBER OTHER THAN PILES SHALL BE PRESSURE TREATED No. 1 SOUTHERN YELLOW PINE OR BETTER HAVING THE FOLLOWING PROPERTIES WHEN MOISTURE CONTENT EXCEEDS 19%. (GRADE No. 1)
 

Fb=	1350 psi
E=	1600,000 psi (MODULUS OF ELASTICITY)
  - ALL TIMBER SHALL BE PRESSURE TREATED WITH CHROMATED COPPER ARSENATE (CCA) FOR MARINE USE WITH A MINIMUM RETENTION IN POUNDS PER CUBIC FT. AS FOLLOWS:
    - PILING = 2.50
    - JOISTS, STRINGERS AND BLOCKINGS = 2.50
    - DECKING = 0.60
  - TREATMENT SHALL BE IN CONFORMANCE WITH THE STANDARDS OF AWPA C18 CUT OR SAWED SURFACES IN PRESERVATIVE TREATED MEMBERS SHALL RECEIVE TWO COATS OF THE SAME PRESERVATIVE USED IN THE ORIGINAL TREATMENT.
  - TIMBER DECKING SHALL BE PLACED "BACKSIDE" FACE UP, AND BE CUT IN CONTINUOUS LENGTH. ANCHORS OF DECKING TO FRAMING SYSTEM SHALL BE HAND TIGHT. TIMBER DECK SHALL BE FREE OF SPLINTERS WARPAGE, BOW, ETC., AND SHALL BE "PLANED" TO A FINISHED SURFACE. SPACING BETWEEN DECK BOARDS SHALL BE 1/2".
  - TIMBER PILE, JOISTS AND STRINGERS SHALL BE ROUGH SAWN.
  - TIMBER PILES SHALL BE GREENHEART GRADE HS WITH fb= 3785 PSI MIN.
- HARDWARE:
  - ALL HARDWARE INCLUDING BOLTS, NUTS, WASHERS, STEEL ANGLES, ETC. SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH ASTM A123. TIMBER SHALL BE PREDRILLED FOR THE NAIL INSTALLATION AND BOLTED CONNECTORS TO AVOID SPLITTING.
- STRUCTURAL STEEL:
  - STRUCTURAL STEEL BOLTS AND FASTENERS SHALL CONFORM TO ASTM A307.
- CLEATS:
  - CLEATS SHALL BE AS SPECIFIED BELOW OR APPROVED EQUAL: CAST STEEL CLEATS CAPABLE OF RESISTING 2,000 POUNDS. SUBMIT CUT SHEET FOR APPROVAL
- SHOP DRAWINGS
  - CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS FOR THE FOLLOWING, FOR REVIEW AND APPROVAL, PRIOR TO CONSTRUCTION OR INSTALLATION.
  - TREATMENT PLANT DATA FOR PILES SHOWING THE FOLLOWING:
    - TYPE CERTIFICATION
    - CHEMICAL PROCESS USED FOR TREATMENT
    - NET AMOUNT OF CHEMICAL RETAINED
  - FASTENERS
- FOUNDATION
  - EXISTING PILES ASSUMED TO BE 12" O GREENHEART TIMBER DRIVEN 5' INTO ROCK OR FIRM SOIL AS DETAILED IN MIAMI-DADE DERM'S APPROVAL DATED 5-4-2004.

REVISIONS	
DATE	DESCRIPTION

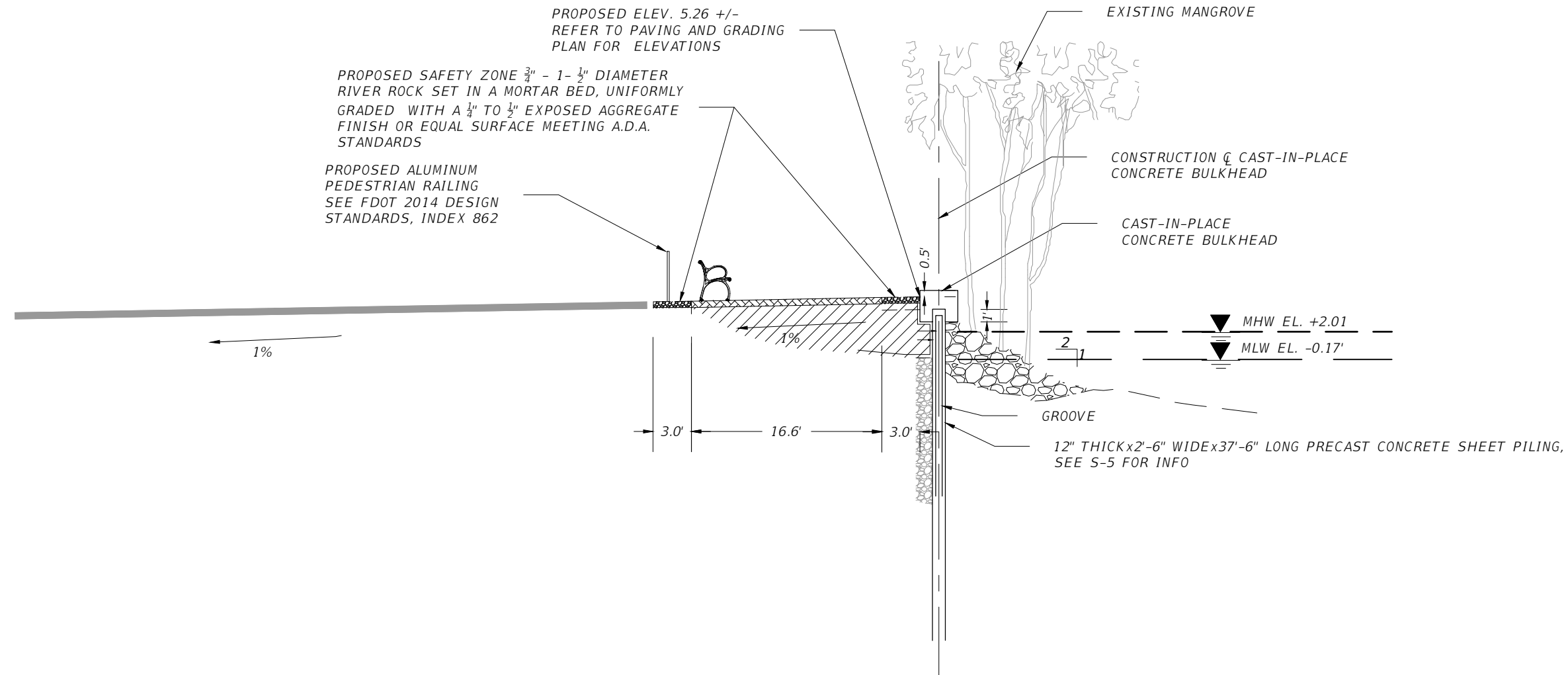
EOR  
  
Alejandro Salas P.E.  
No. 74789  
**T·Y·LIN INTERNATIONAL**



**CITY OF MIAMI**  
CAPITAL IMPROVEMENTS PROGRAM  
PROJECT NAME: LEGION PARK SEAWALL & BOAT RAMP  
PROJECT No.: B-40510

STRUCTURAL GENERAL NOTES & ABBREVIATIONS  
SHEET NO. S-1

NOT FOR CONSTRUCTION PERMITS PLANS



TYPICAL SECTION 1  
 VERTICAL SCALE 1"=10'  
 HORIZONTAL SCALE 1"=10'

NOT FOR CONSTRUCTION PERMITS PLANS

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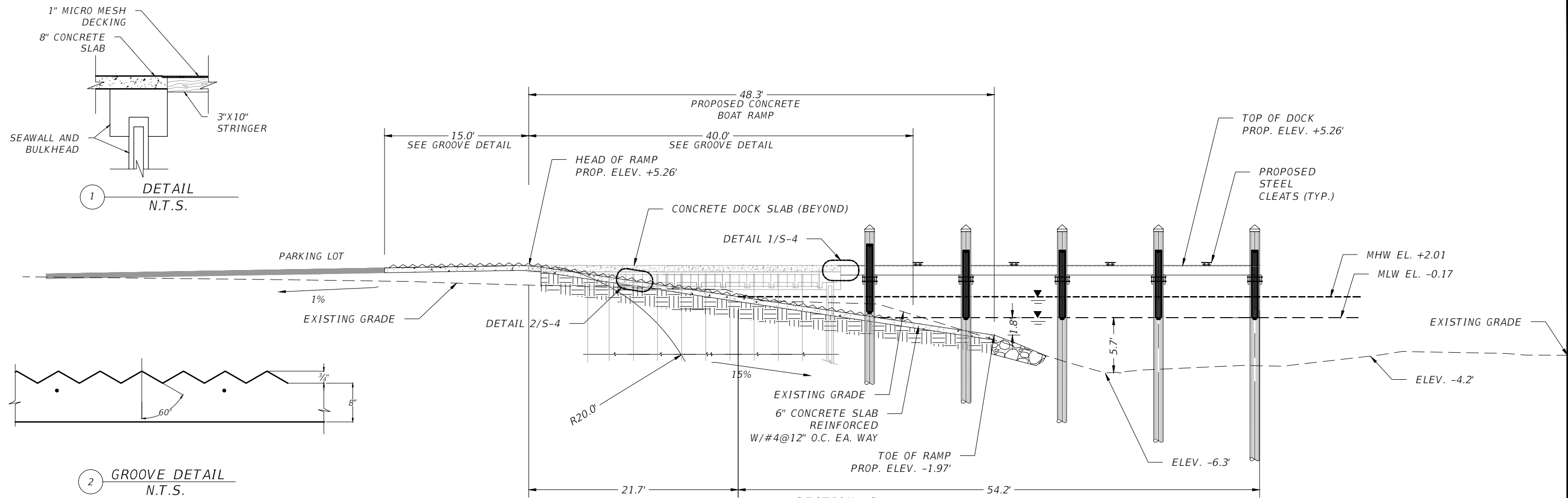
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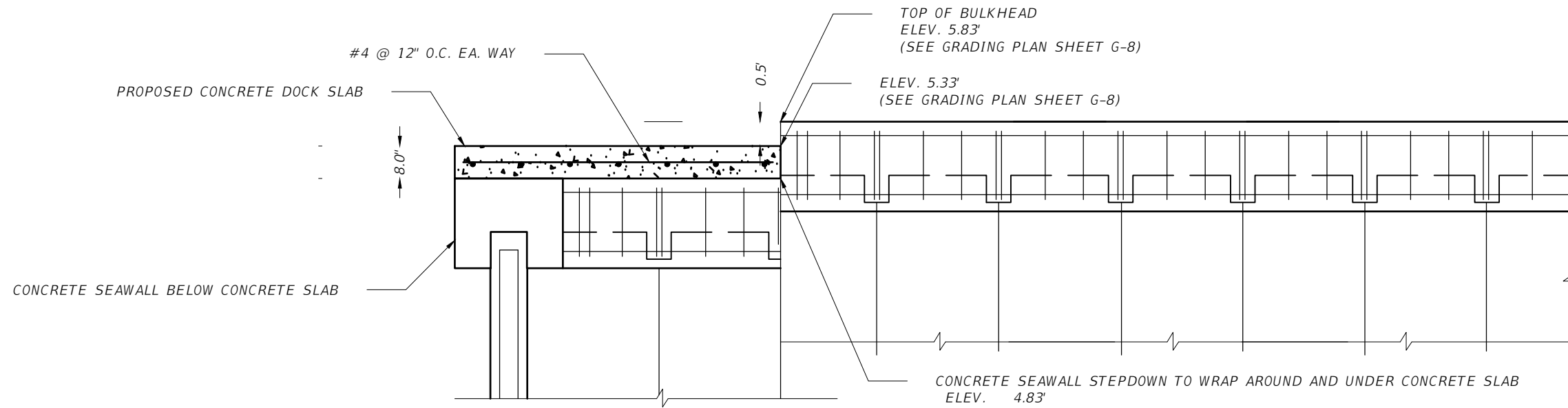
CROSS SECTION

SHEET NO.  
 S-2





SECTION 2  
 VERTICAL SCALE 1"=10'  
 HORIZONTAL SCALE 1"=10'



SECTION 3  
 NTS

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DATE	DESCRIPTION

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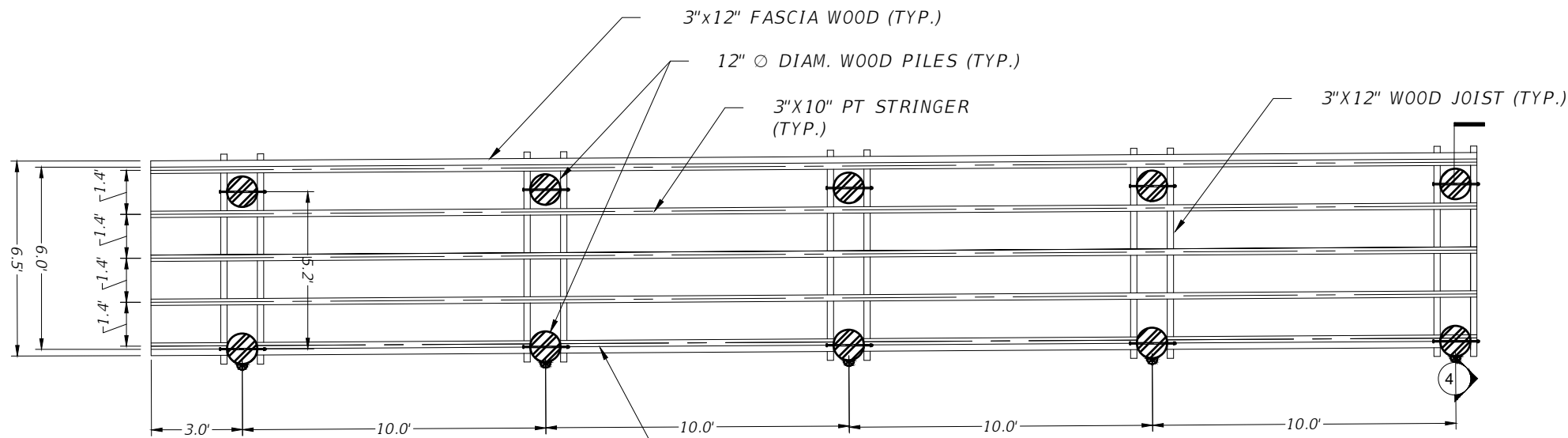


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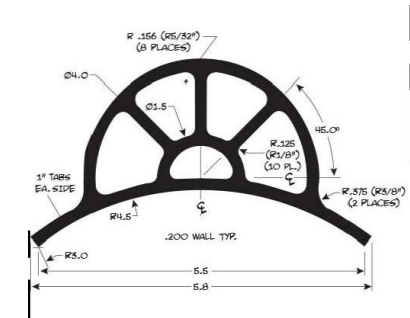
CROSS SECTION  
 SHEET NO.  
 S-3

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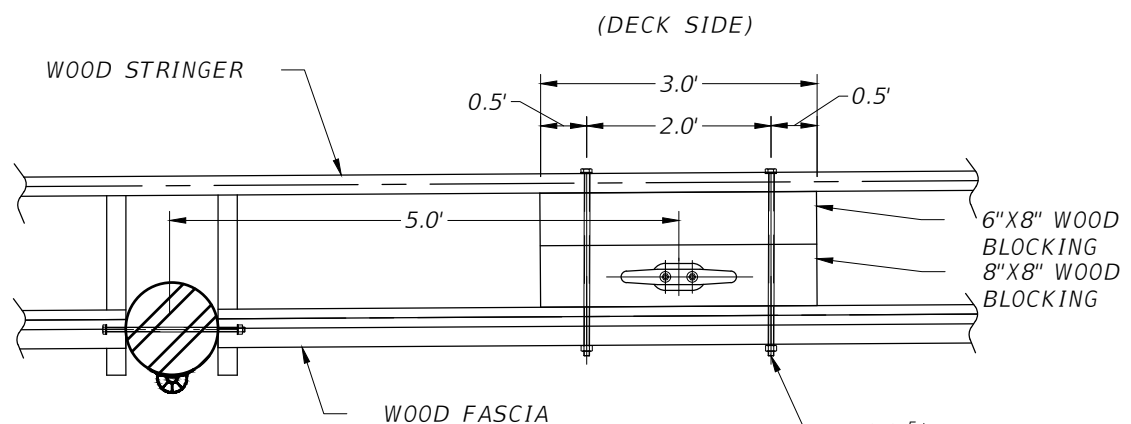


WOOD DECK FRAMING PLAN  
SCALE 1" = 5'

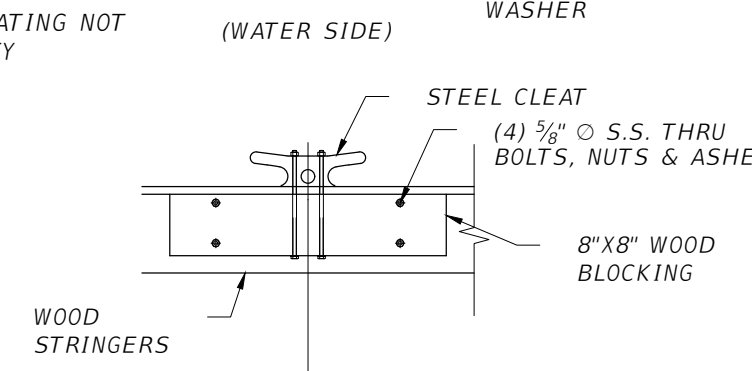
(2) 1" Ø DIAM. S.S. THRU  
BOLTS, NUTS & WASHERS  
(TYP.) THRU PILES



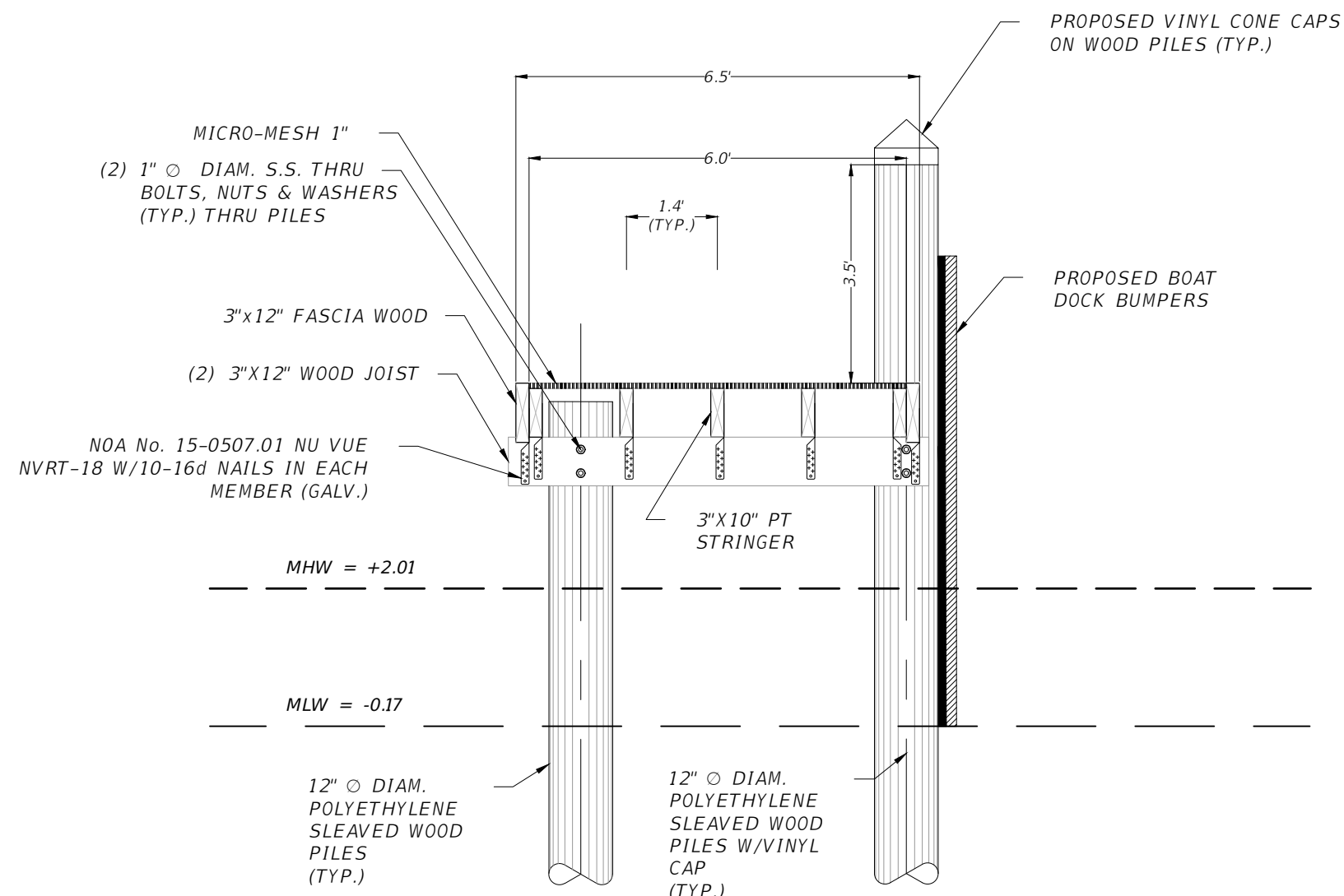
BUMPER DETAIL  
MARINE QUALITY PVC BUMPER MOUNTED DIRECTLY  
ON PILING USING S.S. NAILS  
(FEND-ALL FA400 PILE MOUNT OR EQUAL)  
N.T.S



NOTE: FLOOR GRATING NOT  
SHOWN FOR CLARITY



STEEL CLEAT DETAIL  
N.T.S



SECTION 4  
SCALE 1" = 2.5'

NOT FOR CONSTRUCTION PERMITS PLANS

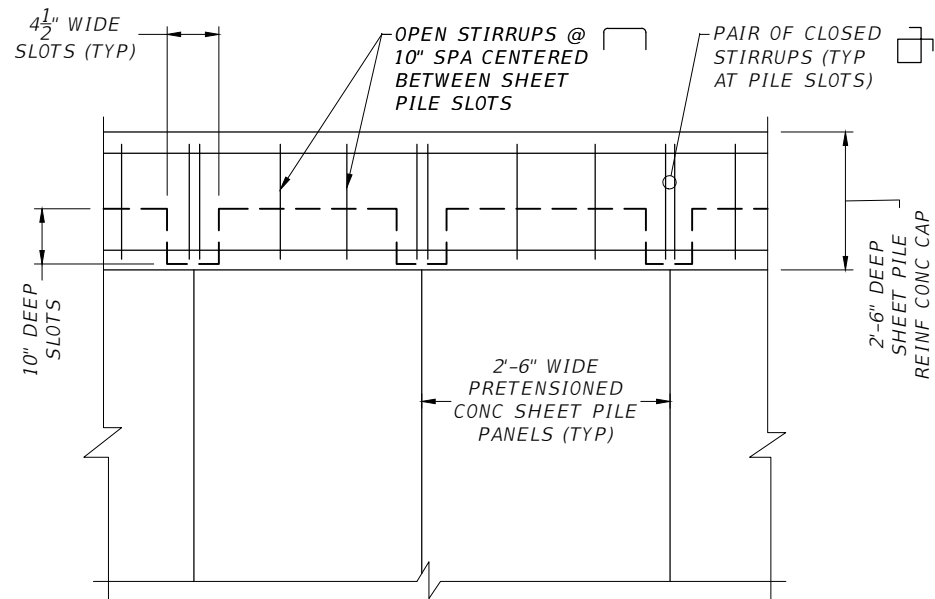
REVISIONS	
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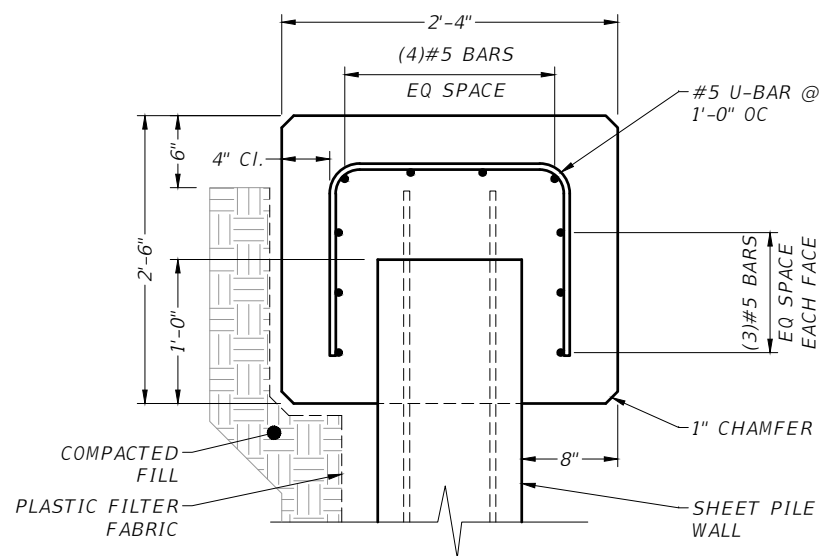
**CITY OF MIAMI**  
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PROJECT NAME: LEGION PARK SEAWALL & BOAT RAMP  
PROJECT No.: B-40510

**WOOD DECK FRAMING PLAN & FIXED DOCK CROSS SECTION**  
SHEET NO. S-4



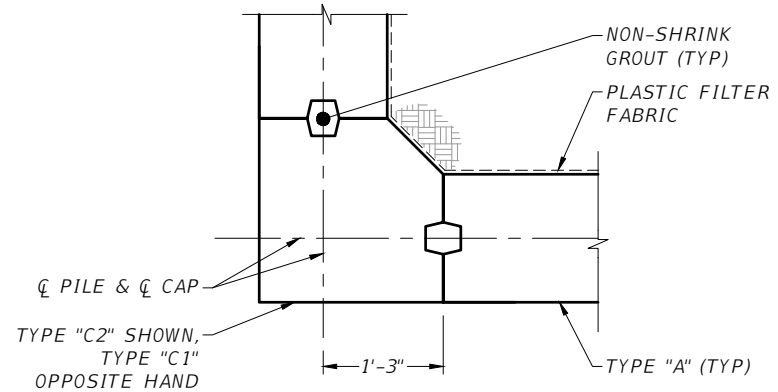
**SHEETPILE PARTIAL ELEVATION**

NTS



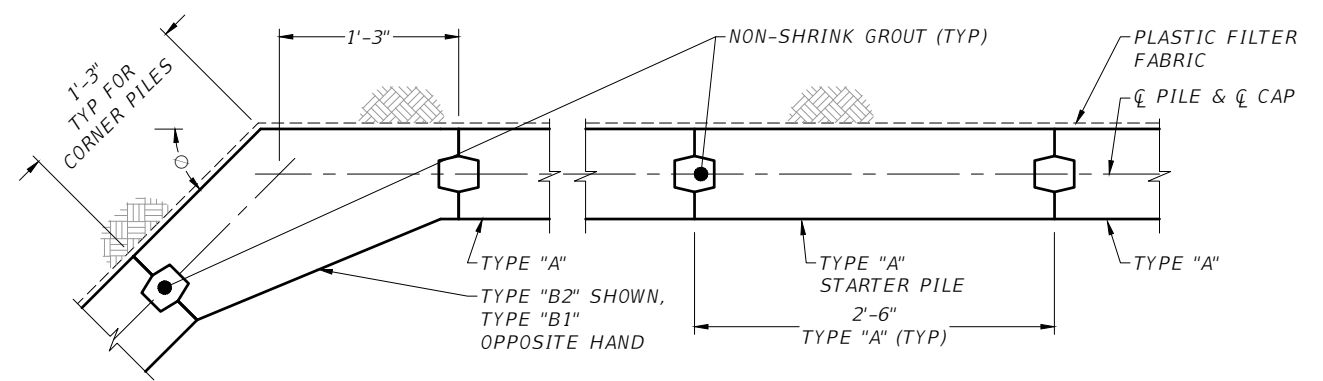
**BULKHEAD TYPICAL SECTION**

NTS



**DETAIL "A"**

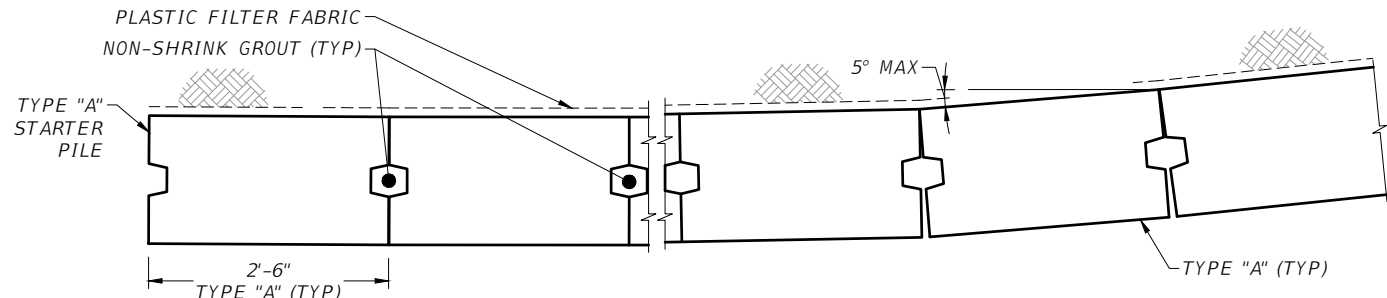
1/2" = 1'-0"



**DETAIL "C"**

3/4" = 1'-0"

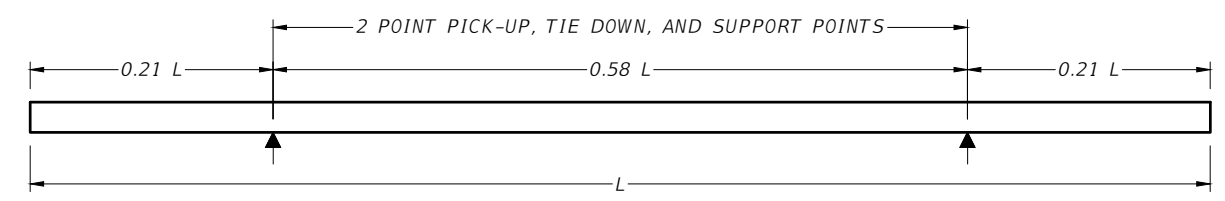
NOTES:  
1. BULKHEAD NOT SHOWN FOR CLARITY.



**DETAIL "B"**

1/2" = 1'-0"

NOTES:  
1. BULKHEAD NOT SHOWN FOR CLARITY.



**PILE STORAGE AND TRANSPORTATION SUPPORT DETAIL**

NTS

NOTES:  
1. TOTAL LENGTH, L = XXXX ft

**PRESTRESSED CONCRETE SEAWALL PILE DESIGN CRITERIA AND NOTES**

- SOIL BORINGS INDICATE LIMESTONE AT DEPTH OF 12± BELOW EXISTING GRADE PER GEOTECHNICAL REPORT BY NV5 DATED DECEMBER 1, 2016. PRECAST CONCRETE PILE ARE TO BE INSTALLED IN ACCORDANCE WITH FDOT SPECIFICATION 455 (STRUCTURES FOUNDATIONS).
- CANTILEVERED CONCRETE RETAINING WALL (SEAWALL) INCLUDES DETAILS FOR FOUR TYPES OF PILES. TYPES "B1", "B2", AND "C1" PILES (CORNER PILES) ARE OF REINFORCED CONCRETE CONSTRUCTION, AND TYPE "A" IS OF PRESTRESSED CONCRETE CONSTRUCTION. THE PILES SHALL BE MANUFACTURED, CURED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- MATERIALS:  
CONCRETE CLASS: V (SPECIAL) FOR SLIGHTLY AND MODERATELY AGGRESSIVE ENVIRONMENTS  
V (SPECIAL W/ SILICA FUME) FOR EXTREMELY AGGRESSIVE ENVIRONMENT  
UNIT WEIGHT: 150 PCF  
MODULUS OF ELASTICITY: BASED ON THE USE OF FLORIDA LIMEROCK CONCRETE  
REINFORCING STEEL: ASTM A615 GRADE 60  
PRESTRESSING STEEL: ASTM A416 GRADE 270 (LOW-RELAXATION STRAND)
- DESIGN PARAMETERS:  
TYPE "A"  
CONCRETE COMPRESSIVE STRENGTH AT RELEASE OF PRESTRESSING: 4000 PSI MINIMUM  
UNIFORM COMPRESSION AFTER PRESTRESSING LOSSES: 1000 PSI MINIMUM  
PICK-UP, STORAGE AND TRANSPORTATION: 0.0 PSI TENSION WITH 1.5 TIMES PILE SELF WEIGHT  
TYPES "B1", "C1", & "C2"  
PICK-UP, STORAGE AND TRANSPORTATION: MINIMUM COMPRESSIVE STRENGTH F'CI ≥ 4000 PSI  
5. GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 6,000 PSI. THE GROUT SHALL BE NON-METALLIC AND NON-SHRINK. GROUT TO BE DUMPED IN PLACE AT ALL VERTICAL PANEL JOINTS.  
6. PILE PICK-UP AND HANDLING:  
TYPE "A"  
PICK-UP OF PILE MAY BE EITHER A SINGLE POINT PICK-UP OR A TWO POINT PICK-UP AS SHOWN BELOW.  
TYPES "B1", "C1" & "C2"  
TWO POINT PICK-UP FOR LIFTING OUT OF FORMS & TWO POINT SUPPORT FOR STORAGE & TRANSPORTATION. SINGLE POINT PICK-UP FOR INSTALLATION ONLY.  
7. PILE FIT-UP: THE 2-6" SHEET PILE DIMENSION IS NOMINAL. THIS DIMENSION MAY BE SHORTENED BY THE MANUFACTURER UP TO 1/2" TO ALLOW FOR SHEET PILE FIT-UP IN ITS FINAL POSITION. MINIMUM SHEET PILE WIDTH IS 2-5 1/2". NO CHANGES SHALL BE MADE TO THE TONGUES OR GROOVES.  
8. BULKHEAD: PROVIDE 1/2" OPEN JOINT EVERY 30'-0" MAXIMUM SPACING.

REVISIONS		
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**SEAWALL DETAILS**

SHEET NO.  
**S-5**

NOT FOR CONSTRUCTION PERMITS PLANS

CONCRETE SHEET PILE WALL, CANTILEVER DATA TABLE															
CONSTRUCTION INFORMATION											DESIGN PARAMETERS				
WALL LOCATION		WALL NO.	TYPE (See Detail A)	NUMBER REQUIRED	PILE LENGTH L (ft)	PILE THICKNESS T (in)	GROOVE LENGTH X (ft)	CORNER ANGLE Ø (degrees)	MINIMUM WALL TIP ELEVATION (ft)	WALL TOP ELEV. (ft)	SOIL (4 LAYERS) ELEVATION		WATER ELEVATION		DESIGN LIVE LOAD (psf)
STATION (begin to end)	OFFSET (ft)										FRONT OF WALL (ft)	BACK OF WALL (ft)	FRONT OF WALL (ft)	BACK OF WALL (ft)	
			A (starter)	2	24.0	12	9.27	N/A	-20.5	+3.50	-3.65	5.00	1.75	+3.00	100
			A (typical)	79	24.0	12	9.27	N/A	-20.5	+3.50	-7.00	-7.00			
			B1	1	24.0	12	9.27	47	-20.5	+3.50		-23.00			
			B2	1	24.0	12	9.27	41	-20.5	+3.50		-33.00			
			C1	2	24.0	12	9.27	90	-20.5	+3.50					

**NOTES**

1. WORK THE DATA TABLE WITH INDEX NO. 6040.
2. ENVIRONMENTAL CLASSIFICATION IS "EXTREMELY AGGRESSIVE"
3. CONCRETE FOR CAST-IN-PLACE RETAINING WALL CAP SHALL BE CLASS V (F'C = 6000 PSI), WITH SILICA FUME, METAKAOLIN OR ULTRAFINE FLY ASH.
4. REFER TO GEOTECHNICAL REPORT FOR SOIL DESCRIPTION.

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>			DATE	BY	DESCRIPTION				<p>EOR</p> <p>Alejandro Salas P.E. No. 74789</p> <p><b>T·Y·LIN INTERNATIONAL</b></p>	 <p><b>CITY OF MIAMI</b> CAPITAL IMPROVEMENTS PROGRAM</p> <p>444 S.W. 2ND AVENUE, 8TH FLOOR MIAMI, FLORIDA 33130 (305) 416-1213 FAX (305) 416-1253</p>	<p><b>CITY OF MIAMI</b> CAPITAL IMPROVEMENTS PROGRAM</p> <table border="1"> <thead> <tr> <th>PROJECT NAME</th> <th>PROJECT No.</th> </tr> </thead> <tbody> <tr> <td>LEGION PARK SEAWALL &amp; BOAT RAMP 6447 NE 7th Ave, Miami, FL 33138</td> <td>B-40510</td> </tr> </tbody> </table>	PROJECT NAME	PROJECT No.	LEGION PARK SEAWALL & BOAT RAMP 6447 NE 7th Ave, Miami, FL 33138	B-40510	<p>CONCRETE SHEET PILE</p>	<p>SHEET NO.</p> <p>S-6</p>
DATE	BY	DESCRIPTION															
PROJECT NAME	PROJECT No.																
LEGION PARK SEAWALL & BOAT RAMP 6447 NE 7th Ave, Miami, FL 33138	B-40510																

## STANDARD MANATEE CONDITIONS FOR IN-WATER WORK

2011

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

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

# CAUTION: MANATEE HABITAT

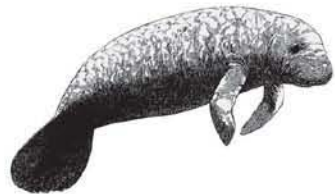
All project vessels

**IDLE SPEED / NO WAKE**

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

**SHUT DOWN**

Report any collision with or injury to a manatee:



**Wildlife Alert:**

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

cell \*FWC or #FWC





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

## **SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS**

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

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

Revised: March 23, 2006

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