



Environmental Protection and Growth Management Department

**ENVIRONMENTAL ENGINEERING AND PERMITTING DIVISION**

1 North University Drive, Mailbox 201, Plantation, Florida 33324 • 954-519-1483 • FAX 954-519-1412

November 30, 2018

City of Fort Lauderdale  
Attention: Khant Myat  
100 N. Andrews Avenue  
Fort Lauderdale, FL 33301

Subject: License/Permit Minor Modification  
Project: River Oaks Stormwater Park and Preserve  
License No: DF13-1113  
ERP Permit No. 06-07241-P  
Issued date: November 30, 2018  
Location: 2117 SW 19<sup>th</sup> Ave. Fort Lauderdale, FL 33315 16-50-42

Dear Licensee:

The Environmental Protection and Growth Management Department has reviewed the plans and documents received November 8, 2018 as a minor modification to the above referenced license and permit. The request to modify the previously approved marina basin plan is hereby granted. The revisions are found to be in compliance with the original environmental resource permit and appropriate provisions of rule 62-330.315(2) of the Florida Administrative Code, and the Broward County Natural Resource Protection Code, Section 27-337 and a modification is hereby granted. Please be advised that all previously stipulated conditions of the license remain in effect unless otherwise revised. In addition, all applicable federal, state, or local special district authorizations must be obtained prior to the commencement of construction or alteration of works authorized by this modification.

This modification authorizes a revision to the size of the boardwalk in the wetland, originally licensed to be 108,439 square feet reduced to 5,132 square feet and a change in the slough-deepwater refugia from 0.45 acre to 0.88 acre. This modification does not authorize impacts to natural resources.

The attached drawings, showing details of the modification, shall supersede the corresponding drawings of the original license. All other specific conditions and technical elements of the license not related to the dimensions of the structure, including the December 18, 2020 expiration date, remain as previously authorized.

Attach this letter and drawings to the original license as they become a part thereof. These approved modifications are specific to the County Environmental Resource License for this project; therefore, it is the Licensee's responsibility to make sure that the changes are incorporated in other sets of project-related plans or permits, as necessary, for proper execution by on-site personnel.

If you have any questions regarding this modification approval, please feel free to contact Michelle Decker at (954) 519-1205 or [mdecker@broward.org](mailto:mdecker@broward.org).

Broward County Board of County Commissioners

Mark D. Bogen • Beam Furr • Steve Geller • Dale V.C. Holness • Chip LaMarca • Nan H. Rich • Tim Ryan • Barbara Sharief • Michael Udine  
[www.broward.org](http://www.broward.org)

Sincerely,

*M. Dawn Michelle Decker on behalf of*

Linda Sunderland – NRS  
Natural Resources Program Manager

Enc: revised drawings (12 sheets)

cc: Nick Zweber, The Chappell Group, Inc. (via e-mail)  
Tyler Chappell, The Chappell Group, Inc. (via e-mail)  
USACOE/WPB (via e-mail)

## NOTICE OF RIGHTS

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

### **RIGHT TO REQUEST ADMINISTRATIVE HEARING**

A person whose substantial interests are or may be affected by the Broward County Environmental Protection and Growth Management Department's (EPGMD, formerly known as Department of Planning and Environmental Protection or DPEP) action under the "Delegation Agreement Among the Florida Department of Environmental Protection, The South Florida Water Management District and Broward County" has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Fla. Stat. Persons seeking a hearing on an EPGMD decision which does or may determine their substantial interests shall file a petition for hearing with the EPGMD Environmental Compliance Administrator, within 21 days of receipt of written notice of the decision, unless the following shorter time period applies: within 14 days of service of an Administrative Order pursuant to Subsection 373.119(1), Fla. Stat. "Receipt of written notice of agency decision" means receipt of either written notice through mail, or electronic mail, or posting that the EPGMD has or intends to take final agency action, or publication of notice that the EPGMD has or intends to take final agency action. Any person who receives written notice of an EPGMD decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

### **Filing Instructions**

The Petition must be filed with the EPGMD Enforcement Administration Section's Environmental Compliance Administrator. Filings with the Environmental Compliance Administrator may be made by mail, hand-delivery or facsimile. **Filings by facsimile will not be accepted after October 1, 2014.** A petition for administrative hearing is deemed filed upon receipt during normal business hours by the Environmental Compliance Administrator, at the Broward County government offices in Plantation, Florida. Any document received by the EPGMD Enforcement Administration after 5:00 p.m. shall be filed as of 8:00 a.m. on the next regular business day. Additional filing instructions are as follows:

- Filings by mail must be addressed to the Environmental Compliance Administrator, Enforcement Administration Section, 1 N University Drive, Suite 307, Plantation, FL 33324.
- Filings by hand-delivery must be delivered to the EPGMD Enforcement Administration Section. **Delivery of a petition to the Broward County security desk does not constitute filing. To ensure proper filing, it will be necessary to request the Broward County security officer to contact the Environmental Compliance Administrator's office.** An employee of the Environmental Compliance Administrator's office will receive and file the petition.
- Filings by e-mail must be transmitted to the EPGMD Enforcement Administration Section at [epdhotline@broward.org](mailto:epdhotline@broward.org). The filing date for a document transmitted by electronic mail shall be the date the EPGMD Enforcement Administration Section receives the complete document. A party who files a document by e-mail shall (1) represent that the original physically signed document will be retained by that party for the duration of the proceeding and of any subsequent appeal or subsequent proceeding in that cause and that the party shall produce it upon the request of other parties; and (2) be responsible for any delay, disruption, or interruption of the electronic signals and accepts the full risk that the document may not be properly filed.

### **Initiation of an Administrative Hearing**

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

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

A person may file a request for an extension of time for filing a petition. The EPGMD may, for good cause, grant the request. Requests for extension of time must be filed with the EPGMD prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and that the EPGMD and any other parties agree to or oppose the extension. A timely request for extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

If the EPGMD takes action with substantially different impacts on water resources from the notice of intended agency decision, the persons who may be substantially affected shall have an additional point of entry pursuant to Rule 28-106.111, Fla. Admin. Code, unless otherwise provided by law.

### **Mediation**

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

### **RIGHT TO SEEK JUDICIAL REVIEW**

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

November 7, 2018

Ms. Linda Sunderland  
Broward County Environmental Protection  
& Growth Management Department  
1 North University Drive, Suite 201  
Plantation, FL 33324

**RE: River Oaks  
ERL Modification Request  
No. DF13-1113  
TCG Project No. 14-0083.001**

Dear Ms. Sunderland:

As consultant for the permittee, I hereby request modification of the above-referenced project. The proposed project is the construction and operation of a surface water management system to serve a proposed 8.41-acre passive stormwater park and wetlands preserve to serve the River Oaks neighborhood and alleviate flooding within the neighborhood. The previous application included a proposed boardwalk of 108,439 square feet and a proposed 0.45-acre slough-deepwater refugia. The proposed modification includes the reduction of the boardwalk to 5,132 square feet. Additionally, the proposed modification includes the increase of slough-deepwater refugia to 0.88 acres, extended across the north and northwest regions. The following are included for your review:

- ERL and ERP Modification Fee (\$350)
- Modification plan set (11"x17")

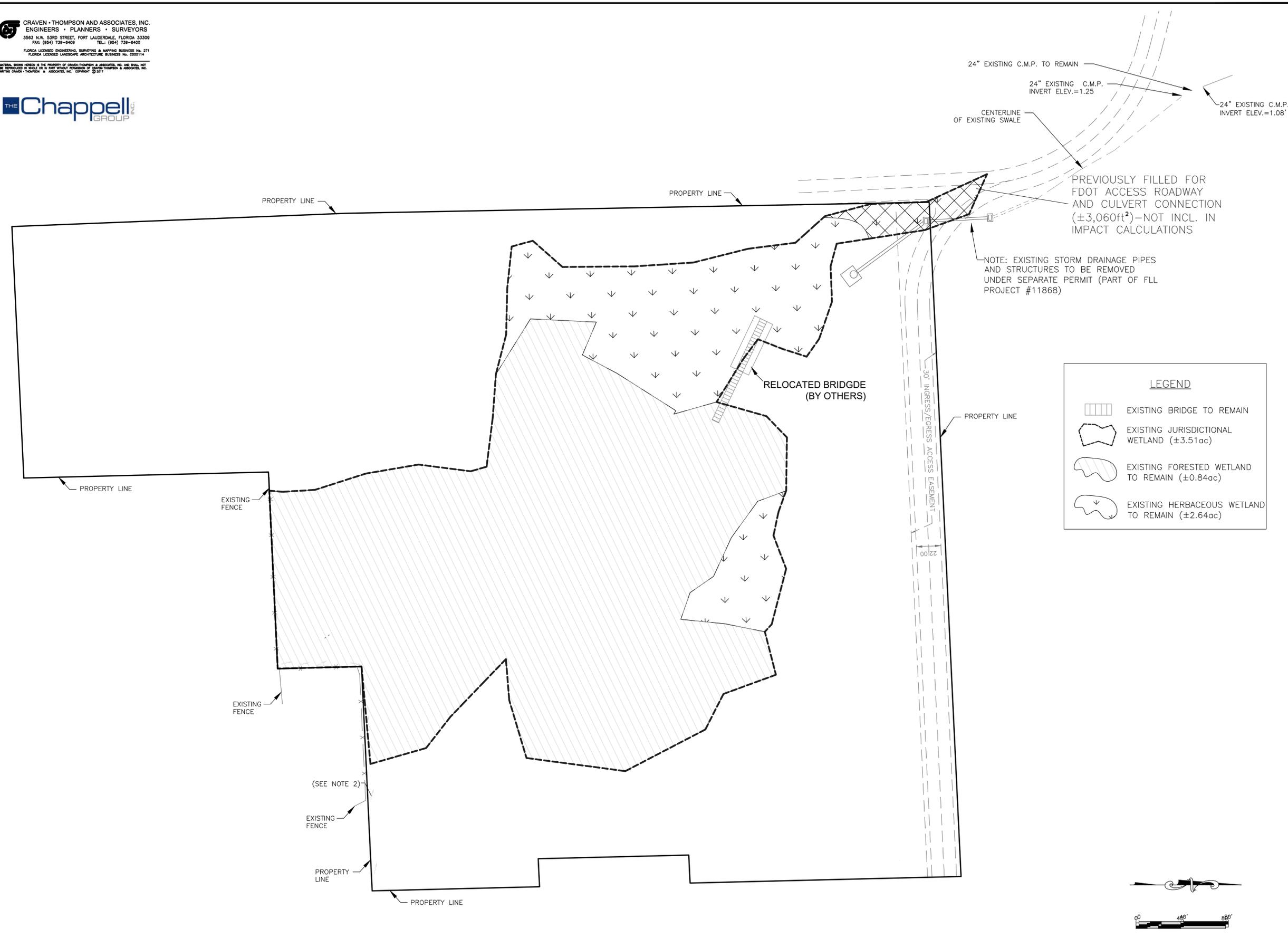
The modification fee will follow under a separate cover letter. If you have any further questions or comments, please feel free to contact my office at (954) 782-1908, or via email at [nick@thechappellgroup.com](mailto:nick@thechappellgroup.com).

Sincerely,

**THE CHAPPELL GROUP, INC.**

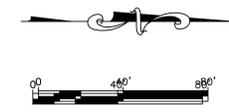


Nick Zweber  
Senior Project Biologist/Regulatory Construction Compliance



**LEGEND**

- EXISTING BRIDGE TO REMAIN
- EXISTING JURISDICTIONAL WETLAND (±3.51ac)
- EXISTING FORESTED WETLAND TO REMAIN (±0.84ac)
- EXISTING HERBACEOUS WETLAND TO REMAIN (±2.64ac)



ENGINEER:  
 PATRICK J. GIBNEY  
 DATE: 10/28/2018  
 TEL: 954-739-6400  
 FAX: 954-739-6409

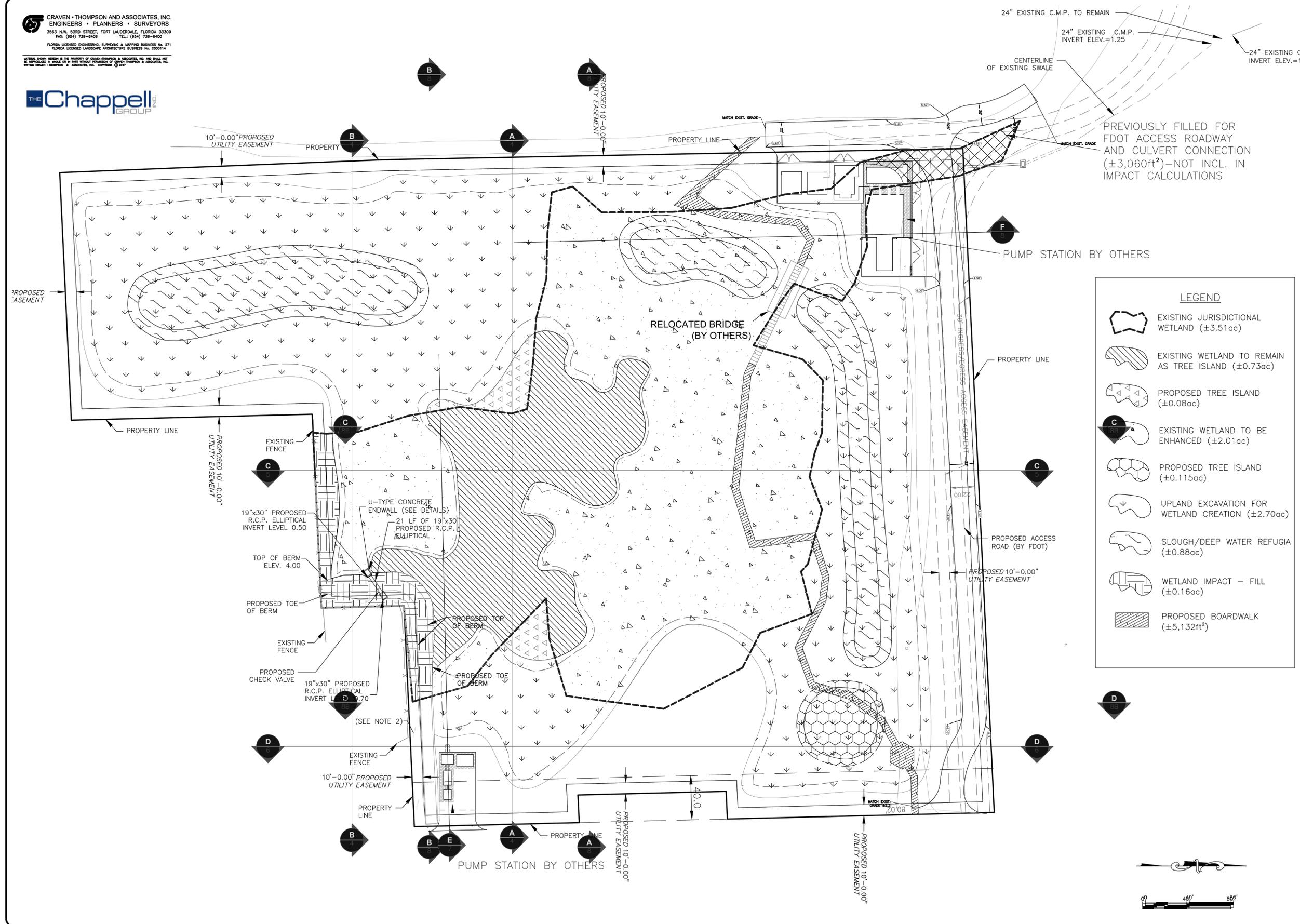
DATE: 10/30/2018  
 L.C./M.N.:  
 W.R./M.N.:  
 VERT SCALE: 1"=2'  
 HOR SCALE: 1"=40'  
 CHECKED BY:  
 A.G.  
 FIELD BOOK:

**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS	
NO.	DESCRIPTION

**PROJECT # 11419**  
**RIVER OAKS PRESERVE**  
**ENVIRONMENTAL**  
**SITE PLAN**  
**EXISTING CONDITIONS**

SHEET NO. 1  
 TOTAL: 11  
 CAD FILE: 11419-004-SITE  
 DRAWING FILE NO. 4-135-B1



**LEGEND**

- EXISTING JURISDICTIONAL WETLAND (±3.51ac)
- EXISTING WETLAND TO REMAIN AS TREE ISLAND (±0.73ac)
- PROPOSED TREE ISLAND (±0.08ac)
- EXISTING WETLAND TO BE ENHANCED (±2.01ac)
- PROPOSED TREE ISLAND (±0.115ac)
- UPLAND EXCAVATION FOR WETLAND CREATION (±2.70ac)
- SLOUGH/DEEP WATER REFUGIA (±0.88ac)
- WETLAND IMPACT - FILL (±0.16ac)
- PROPOSED BOARDWALK (±5,132ft<sup>2</sup>)

ENGINEER: PATRICK J. GIBNEY  
 DATE: 10/30/2018  
 L.C./M.N.: W.R./M.N.  
 DESIGNED BY: W.R./M.N.  
 CHECKED BY: A.G.  
 FIELD BOOK:

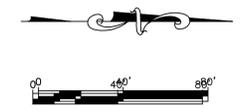
DATE: 10/30/2018  
 SCALE: 1"=2'  
 HORIZ: 1"=40'

**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

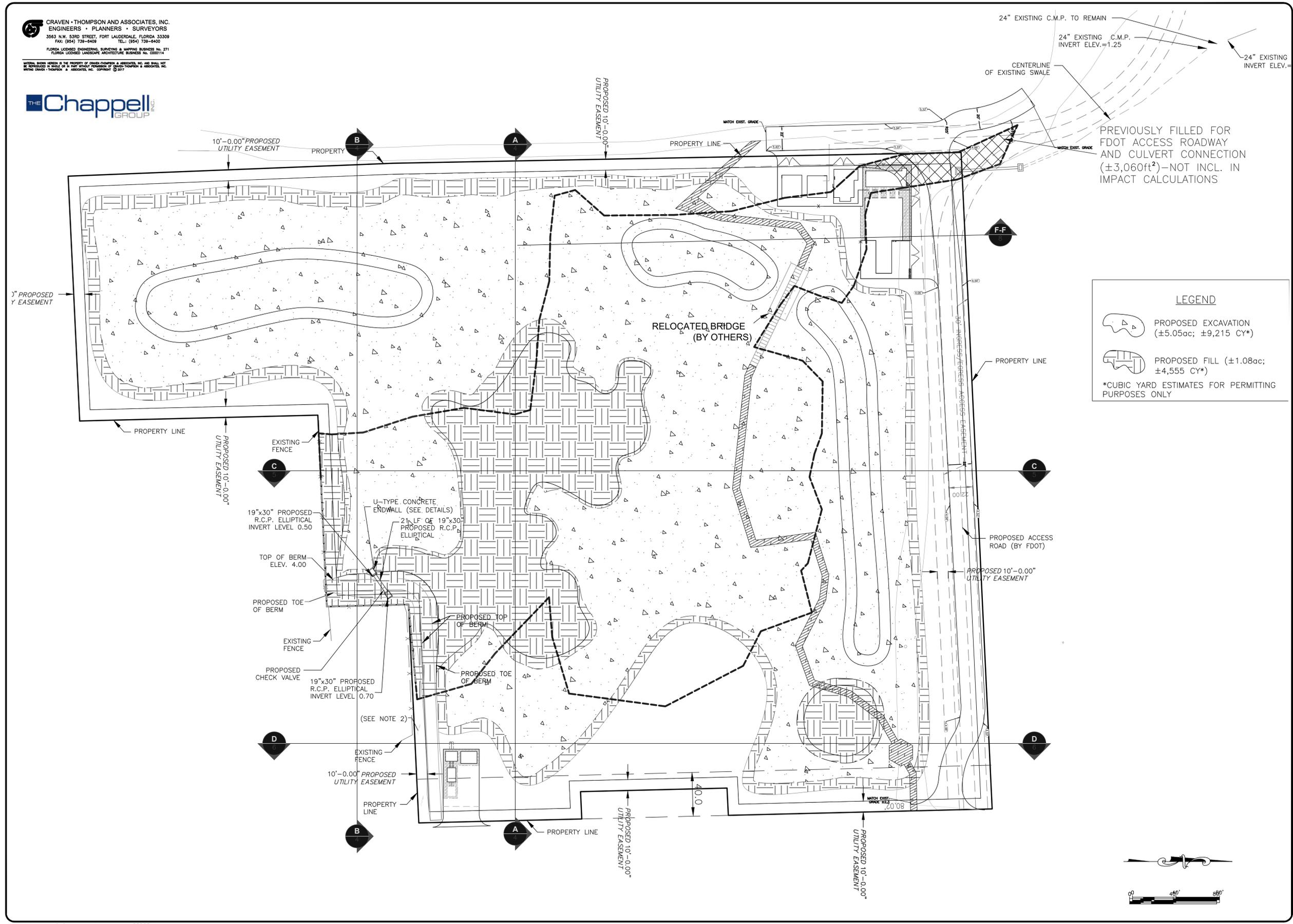
REVISIONS	
NO.	DESCRIPTION

**PROJECT # 11419**  
**RIVER OAKS PRESERVE**  
**ENVIRONMENTAL**  
**SITE PLAN**  
**PROPOSED CONDITIONS**

SHEET NO. **2**  
 TOTAL: 11  
 CAD FILE: 11419-004-SITE  
 DRAWING FILE NO. 4-135-B1



**CRAVEN • THOMPSON AND ASSOCIATES, INC.**  
 ENGINEERS • PLANNERS • SURVEYORS  
 3583 N.W. 53RD STREET, FORT LAUDERDALE, FLORIDA 33309  
 FAX: (954) 739-6409 TEL: (954) 739-6400  
 FLORIDA LICENSED ENGINEERING, SURVEYING & MAPPING BUSINESS NO. 271  
 FLORIDA LICENSED LANDSCAPE ARCHITECTURE BUSINESS NO. 0502114  
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**LEGEND**

- PROPOSED EXCAVATION (±5.05ac; ±9,215 CY\*)
- PROPOSED FILL (±1.08ac; ±4,555 CY\*)

\*CUBIC YARD ESTIMATES FOR PERMITTING PURPOSES ONLY

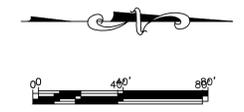
ENGINEER: PATRICK J. GIBNEY  
 DATE: 10/30/2018  
 DESIGNED BY: SCALE: 1"=2'  
 W.R./M.N. VERT: 1"=2'  
 CHECKED BY: HOR: 1"=40'  
 A.G.  
 FIELD BOOK:

CITY OF FORT LAUDERDALE  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

**PROJECT # 11419**  
**RIVER OAKS PRESERVE**  
**ENVIRONMENTAL**  
**SITE PLAN**  
**DREDGE & FILL**

REVISIONS	
NO.	DESCRIPTION

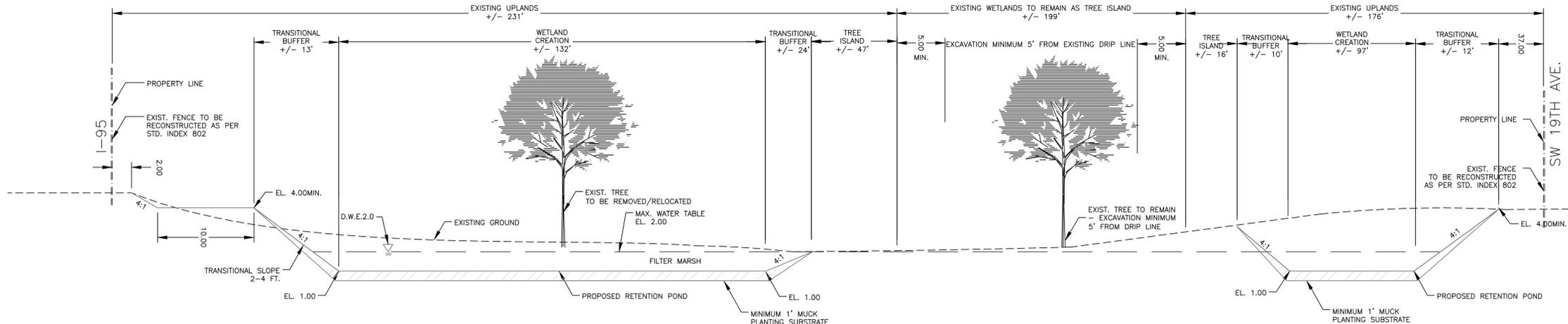
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 DRAWING FILE NO. 4-135-B1



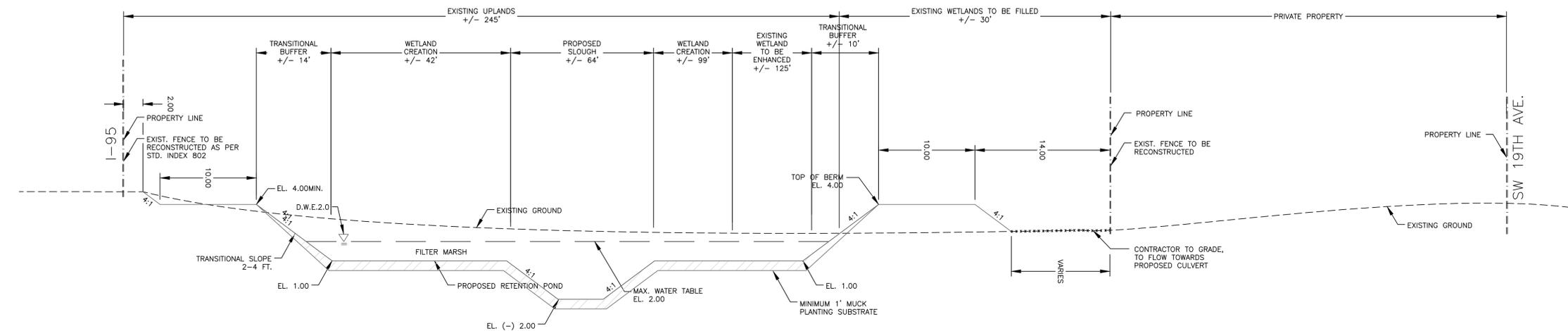
REVISIONS	
NO.	DESCRIPTION

**PROJECT # 11419**  
**RIVER OAKS PRESERVE**  
**ENVIRONMENTAL**  
**SITE PLAN**  
**SECTIONS A & B**

SHEET NO. **4**  
 TOTAL: 11  
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 DRAWING FILE NO. 4-135-B1

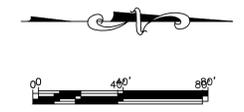


# SECTION A-A



# SECTION B-B

NOTE: ELEVATIONS SHOWN IN NAVD88

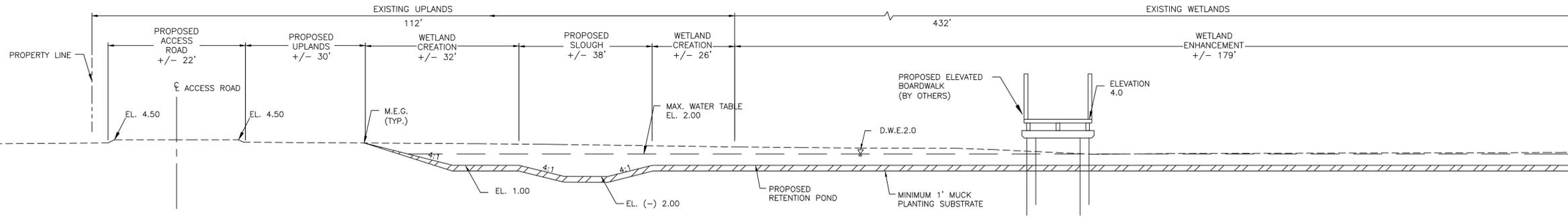


NO.	DATE	BY	CHK'D	DESCRIPTION

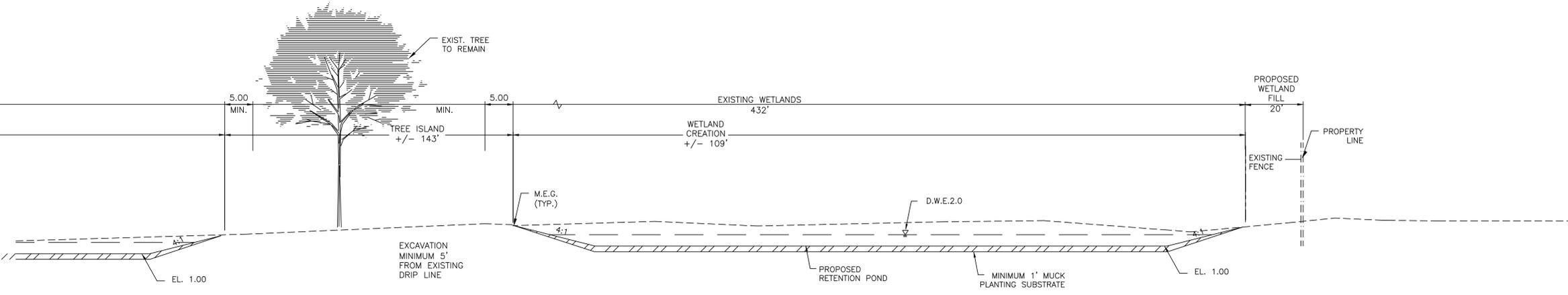
**PROJECT # 11419**  
**RIVER OAKS PRESERVE**  
**ENVIRONMENTAL**  
**SITE PLAN**  
**SECTION C**

SHEET NO. **5**

TOTAL:	11
CAD FILE:	11419-004-SITE
DRAWING FILE NO.:	4-135-B1



**SECTION C-C**



**SECTION C-C CONT.**

NOTE: ELEVATIONS SHOWN IN NAVD88

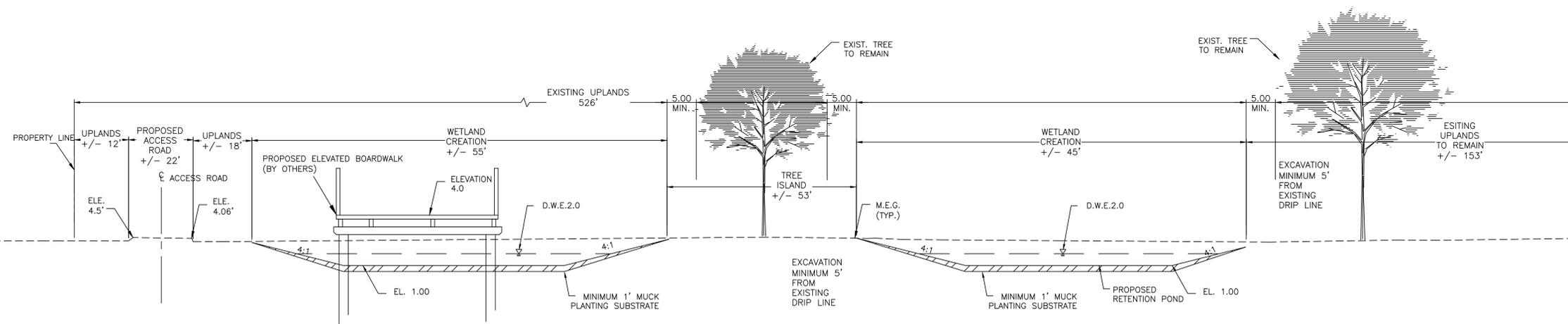


REVISIONS	
NO.	DESCRIPTION

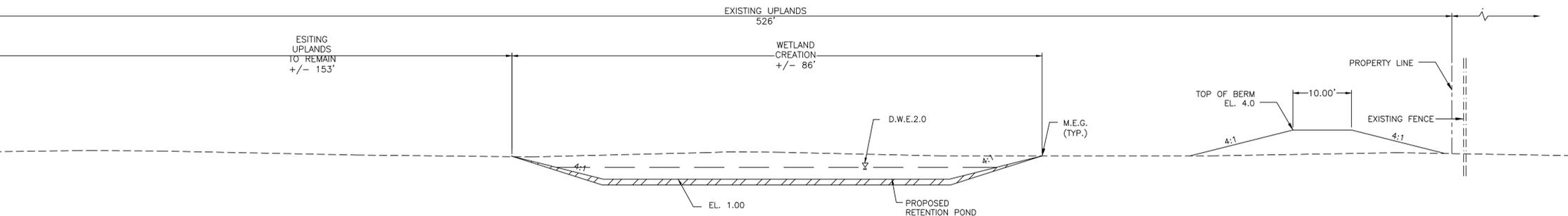
PROJECT # 11419  
 RIVER OAKS PRESERVE  
 ENVIRONMENTAL  
 SITE PLAN  
 SECTION D

SHEET NO. 0

TOTAL:	11
CAD FILE:	11419-004-SITE
DRAWING FILE NO.:	4-135-B1



SECTION D-D

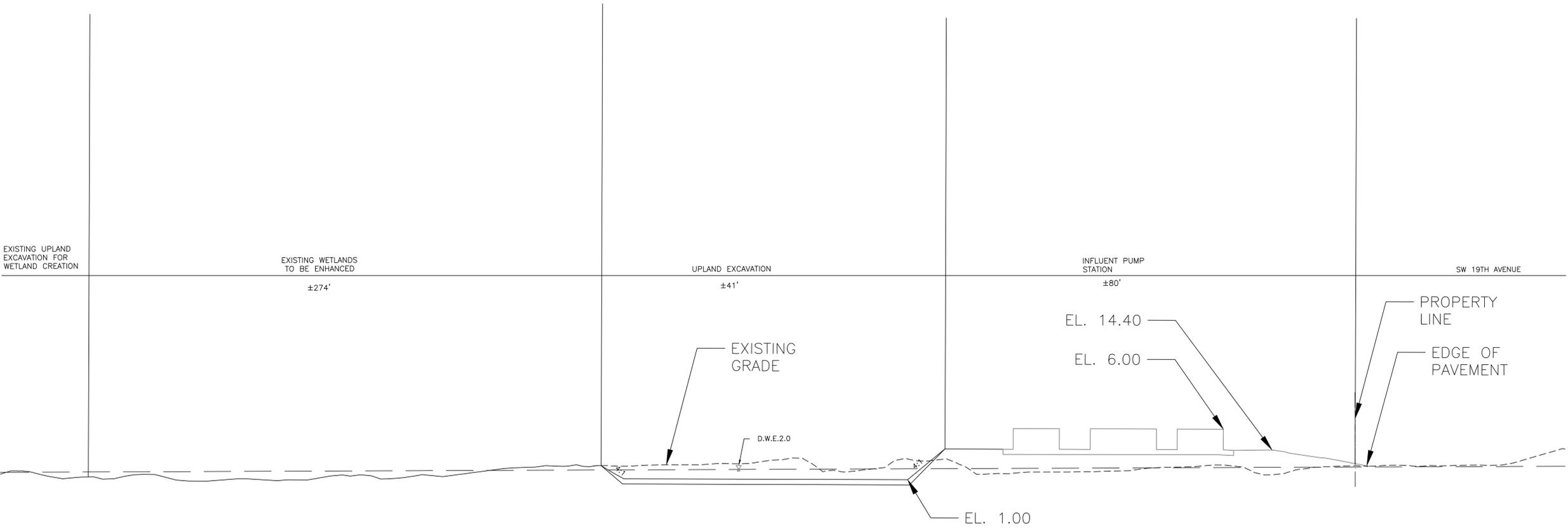


SECTION D-D CONT.

NOTE: ELEVATIONS SHOWN IN NAVD88



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# SECTION E-E



ENGINEER:  
 PATRICK J. GIBNEY  
 DATE: 10/28/2018  
 TEL: 954-739-6400  
 FAX: 954-739-6409

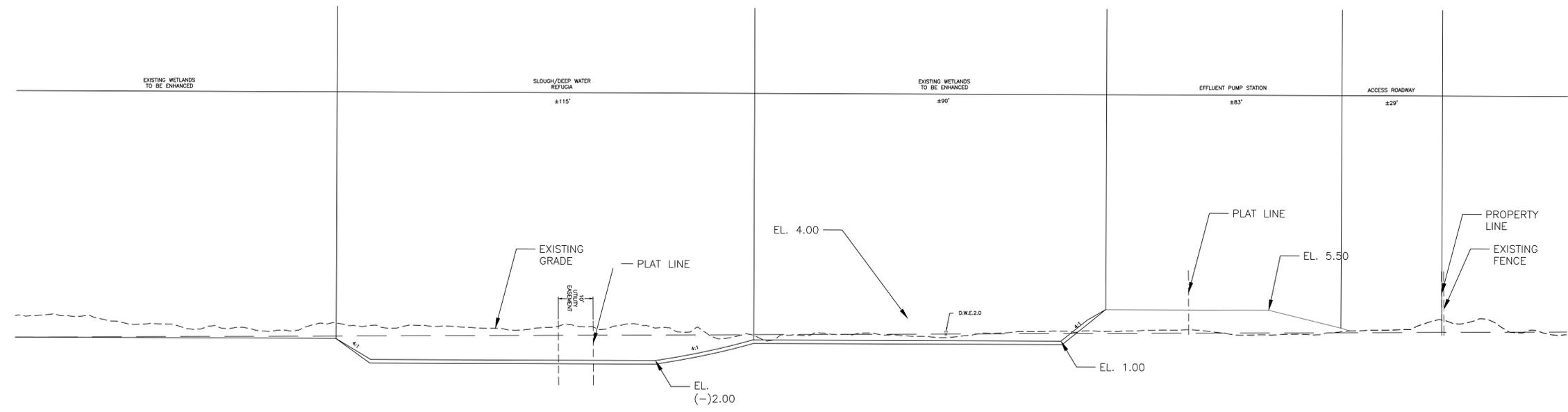
DATE: 10/30/2018  
 DRAWN BY: L.C./M.N.  
 DESIGNED BY: W.R./M.N.  
 CHECKED BY: A.G.  
 SCALE: 1"=2'  
 VERT: 1"=40'  
 HOR: 1"=40'  
 FIELD BOOK:

**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		DESCRIPTION
NO.	DATE	BY / CHKD

**PROJECT # 11419**  
**RIVER OAKS PRESERVE**  
**ENVIRONMENTAL**  
**SITE PLAN**  
**SECTION E**

SHEET NO.  
**7**  
 TOTAL: 11  
 CAD FILE:  
 11419-004-SITE  
 DRAWING FILE NO.  
 4-135-B1



**SECTION F-F**

REVISIONS		DESCRIPTION
NO.	DATE	BY / CHKD

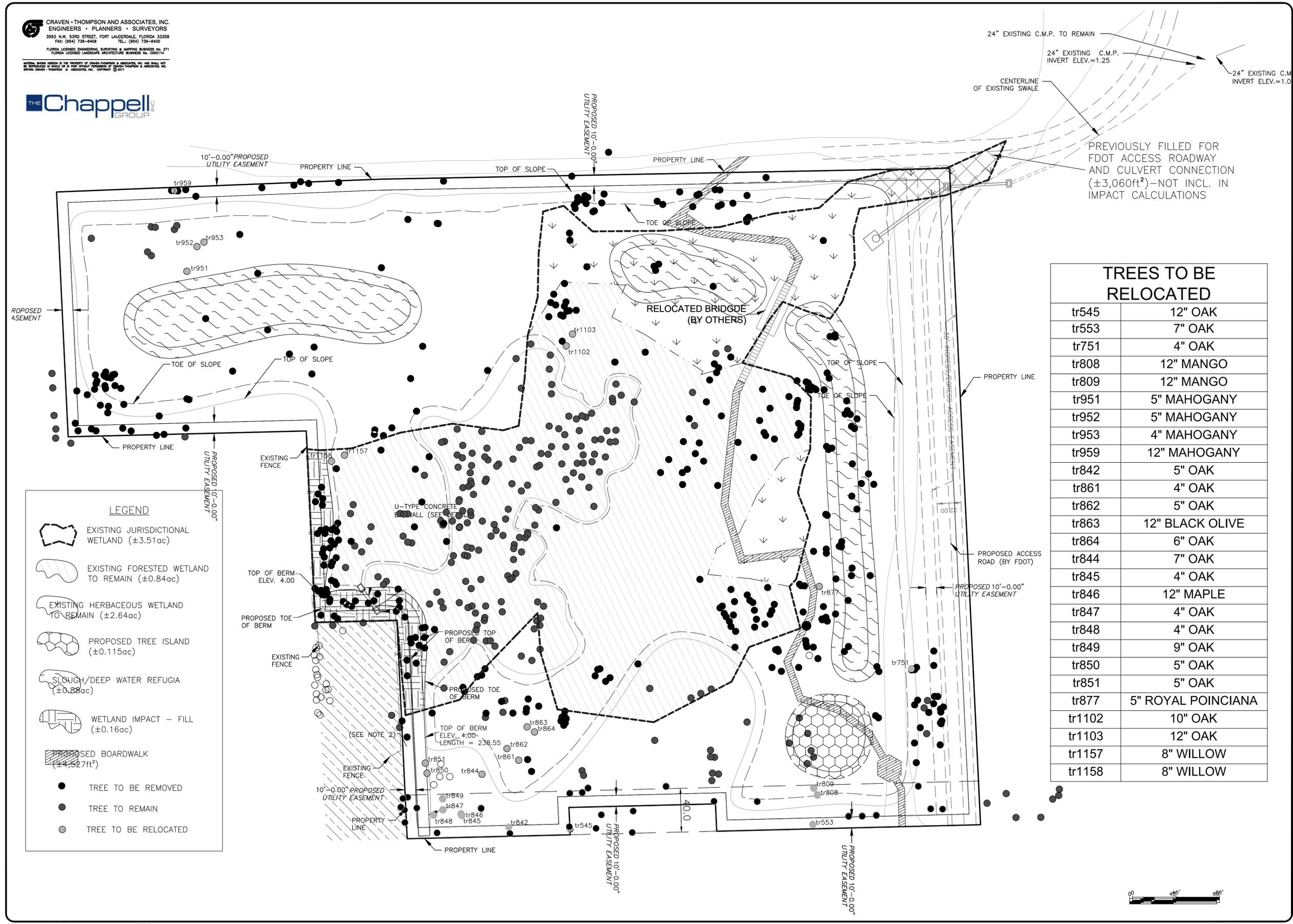
**PROJECT # 11419**  
**RIVER OAKS PRESERVE**  
**ENVIRONMENTAL**  
**SITE PLAN**  
**SECTION F**

SHEET NO. **8**

TOTAL:	11
CAD FILE:	11419-004-SITE
DRAWING FILE NO.:	4-135-B1



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TREES TO BE RELOCATED	
tr545	12" OAK
tr553	7" OAK
tr751	4" OAK
tr808	12" MANGO
tr809	12" MANGO
tr951	5" MAHOGANY
tr952	5" MAHOGANY
tr953	4" MAHOGANY
tr959	12" MAHOGANY
tr842	5" OAK
tr861	4" OAK
tr862	5" OAK
tr863	12" BLACK OLIVE
tr864	6" OAK
tr844	7" OAK
tr845	4" OAK
tr846	12" MAPLE
tr847	4" OAK
tr848	4" OAK
tr849	9" OAK
tr850	5" OAK
tr851	5" OAK
tr877	5" ROYAL POINCIANA
tr1102	10" OAK
tr1103	12" OAK
tr1157	8" WILLOW
tr1158	8" WILLOW

**LEGEND**

- EXISTING JURISDICTIONAL WETLAND (±3.51ac)
- EXISTING FORESTED WETLAND TO REMAIN (±0.84ac)
- EXISTING HERBACEOUS WETLAND TO REMAIN (±2.64ac)
- PROPOSED TREE ISLAND (±0.115ac)
- SLOUGH/DEEP WATER REFUGIA (±0.88ac)
- WETLAND IMPACT - FILL (±0.16ac)
- PROPOSED BOARDWALK (±4,527ft<sup>2</sup>)
- TREE TO BE REMOVED
- TREE TO REMAIN
- TREE TO BE RELOCATED

ENGINEER: PATRICK J. GIBNEY  
 DATE: 10/30/2018  
 L.C./M.N.: 10/30/2018  
 DESIGNED BY: SCALE: 1"=2'  
 W.R./M.N.: VERT: 1"=40'  
 CHECKED BY: HOR: 1"=40'  
 A.G.  
 FIELD BOOK:

CITY OF FORT LAUDERDALE  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

REVISIONS		
NO.	DATE	DESCRIPTION

PROJECT # 11419  
 RIVER OAKS PRESERVE  
 ENVIRONMENTAL  
 SITE PLAN  
 TREE EXHIBIT

SHEET NO. 9  
 TOTAL: 11  
 CAD FILE: 11419-004-SITE  
 DRAWING FILE NO. 4-135-B1

# PLANTING PLAN

## MARSH (± 4.0 ac)

SPECIES	COMMON NAME	SPACING	QUANTITY	SIZE	ELEVATION
<i>Pontederia cordata</i>	Pickerelweed	3' o/c	5,000	BR	1.0' - 2.0' NAVD
<i>Sagittaria lancifolia</i>	Duck potato	3' o/c	5,000	BR	1.0' - 2.0' NAVD
<i>Sagittaria latifolia</i>	Arrow arum	3' o/c	2,400	BR	1.0' - 1.5' NAVD
<i>Thalia geniculata</i>	Fireflag	3' o/c	2,260	BR	1.0' - 2.0' NAVD
<i>Crinum americanum</i>	Swamp lily	3' o/c	3,200	BR	1.5' - 2.0' NAVD
<b>Subtotal</b>			<b>17,860</b>		

### TREES

SPECIES	COMMON NAME	SPACING	QUANTITY	SIZE	ELEVATION
<i>Taxodium distichum</i>	Bald cypress	10' o/c	80	7gal	1.5' - 2.5' NAVD
<i>Pinus elliotii</i>	Slash pine	10' o/c	70	7gal	1.5' - 4.0' NAVD
<i>Sabal palmetto</i>	Cabbage palm	10' o/c	150	8-10'	1.5' - 4.0' NAVD
<b>Subtotal</b>			<b>300</b>		

### SHRUBS & GROUNDCOVERS

SPECIES	COMMON NAME	SPACING	QUANTITY	SIZE	ELEVATION
<i>Tripsacum dactyloides</i>	Fakahatchee grass	4' o/c	180	1gal	3.5' - 4.0' NAVD
<i>Spartina bakeri</i>	Sand cordgrass	4' o/c	200	1gal	2.5' - 4.0' NAVD
<i>Hamelia patens</i>	Firebush	4' o/c	600	1gal	2.0' - 4.0' NAVD
<i>Psychotria nervosa</i>	Wild coffee	4' o/c	600	1gal	2.0' - 4.0' NAVD
<i>Muhlenbergia capillaris</i>	Muhly grass	4' o/c	300	LN	2.0' - 4.0' NAVD
<b>Subtotal</b>			<b>1,880</b>		

<b>TOTAL</b>	<b>20,040</b>
--------------	---------------

## SLOUGH (± 0.88ac)

<i>Scirpus californicus</i>	Giant bulrush	3' o/c	1,060	BR	1.0' - (-) 2.0' NAVD
<i>Nymphaea odorata</i>	White water lily	3' o/c	3,200	BR	1.5' - (-) 2.0' NAVD
<b>Subtotal</b>			<b>4,260</b>		

## TREE ISLAND (± 0.925 ac)

### TREES

EXISTING TREES TO REMAIN ON TREE ISLANDS AND SUPPLEMENTAL PLANTINGS TO BE DONE WITH RELOCATED TREES

### SHRUBS & GROUNDCOVERS

SPECIES	COMMON NAME	SPACING	QUANTITY	SIZE	ELEVATION
<i>Chrysobalanus icaco</i>	Cocoplum	4' o/c	850	1gal	2.5' - 4.0' NAVD
<i>Tripsacum dactyloides</i>	Fakahatchee grass	4' o/c	200	1gal	≥3.5' NAVD
<i>Hamelia patens</i>	Firebush	4' o/c	850	1gal	2.5' - 4.0' NAVD
<i>Psychotria nervosa</i>	Wild coffee	4' o/c	620	1gal	2.5' - 4.0' NAVD
<b>Subtotal</b>			<b>2,520</b>		



MITIGATION SIGNAGE (TYP.)



ENGINEER:  
 PATRICK J. GIBNEY  
 DATE: 10/26/2018  
 TEL: 954-739-6400  
 FAX: 954-739-6409

DATE: 10/30/2018  
 L.C./M.N.:  
 DESIGNED BY: SCALE:  
 W.R./M.N.: VERT 1"=2'  
 CHECKED BY: HOR 1"=40'  
 A.G.  
 FIELD BOOK:

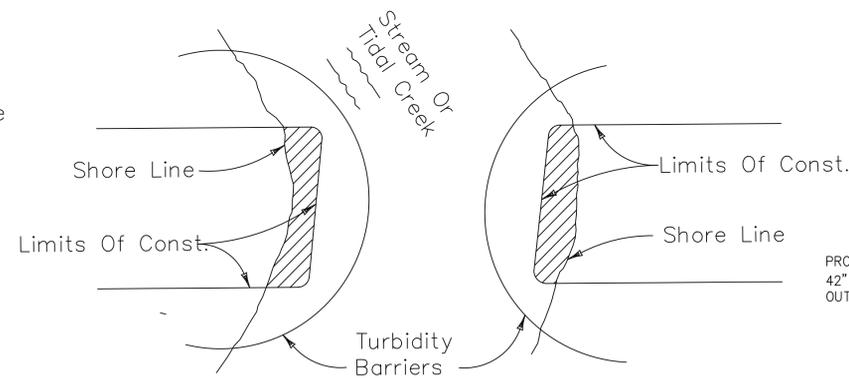
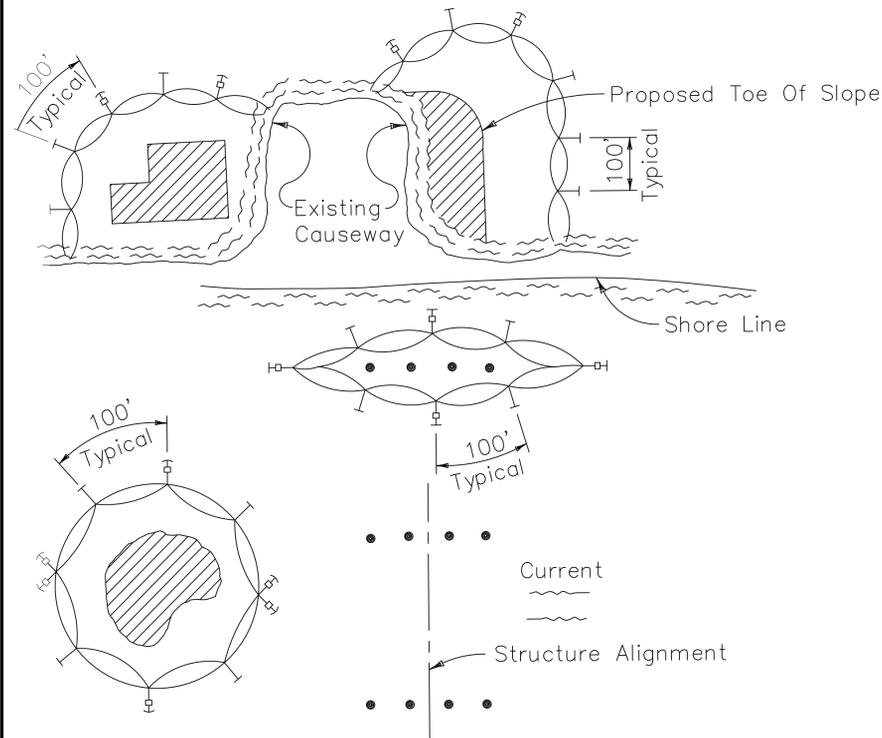
CITY OF FORT LAUDERDALE  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHKD	DESCRIPTION

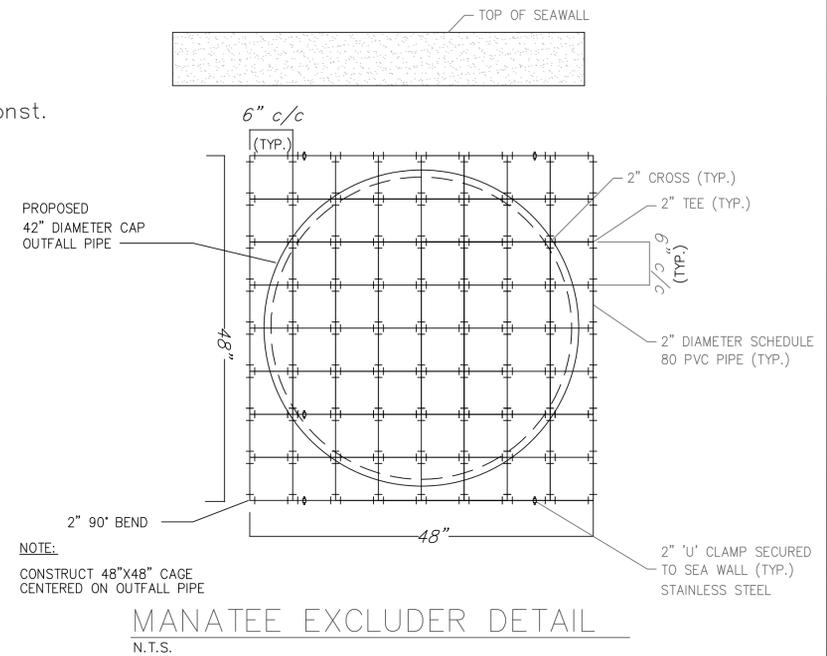
PROJECT # 11419  
 RIVER OAKS PRESERVE  
 ENVIRONMENTAL  
 SITE PLAN  
 PLANTING PLAN

SHEET NO.  
**10**  
 TOTAL: 11  
 CAD FILE:  
 11419-004-SITE  
 DRAWING FILE NO.  
 4-135-B1

# TURBIDITY BARRIER APPLICATIONS



**Note:**  
 Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however payment will be under the pay item(s) established in the plans for Floating Turbidity Barrier and/or Staked Turbidity Barrier. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.



- LEGEND**
- Pile Locations
  - ▨ Dredge Or Fill Area
  - Mooring Buoy w/Anchor
  - |— Anchor
  - Barrier Movement Due To Current Action

- NOTES:**
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
  2. Number and spacing of anchors dependent on current velocities.
  3. Deployment of barrier around pile locations may vary to accommodate construction operations.
  4. Navigation may require segmenting barrier during construction operations.
  5. For additional information see Section 104 of the Standard Specifications.



ENGINEER: PATRICK J. GIBNEY	DATE: 10/30/2018
DATE: 10/26/2018	DESIGNED BY: W.R./M.N.
SCALE: VERT 1"=2' HOR 1"=40'	CHECKED BY: A.G.
FIELD BOOK:	

**CITY OF FORT LAUDERDALE**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING & ARCHITECTURE  
 100 North Andrews Avenue, Fort Lauderdale, Florida 33301

NO.	DATE	BY	CHKD	DESCRIPTION

**PROJECT # 11419**  
**RIVER OAKS PRESERVE**  
**ENVIRONMENTAL**  
**SITE PLAN**  
**EXISTING CONDITIONS**

SHEET NO.	11
TOTAL:	11
CAD FILE:	11419-004-SITE
DRAWING FILE NO.	4-135-B1