



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

3301 Gun Club Road, West Palm Beach, Florida 33406 • (561) 686-8800 • FL WATS 1-800-432-2045 • TDD (561) 697-2574
Mailing Address: P.O. Box 24680, West Palm Beach, FL 33416-4680 • www.sfwmd.gov

July 24, 2007

City of Port St. Lucie
121 SW Port St. Lucie Blvd.
Port St. Lucie, FL 34984

Subject: Application No. 070601-4, **C-23 Outfall and Watershed B Retrofits**
St. Lucie County, S7,17-21,28-34/T37S/R40E
S11,13,14,23-26,36/T37S/R39E

Enclosed is a copy of the South Florida Water Management District's staff report covering the permit application referenced therein. It is requested that you read this staff report thoroughly and understand its contents. The recommendations as stated in the staff report will be presented to our Governing Board for consideration on **Thursday, August 9, 2007**.

Should you wish to object to the staff recommendation or file a petition, please provide written objections, petitions and/or waivers (refer to the attached "Notice of Rights") to:

Elizabeth Veguilla, Deputy Clerk
South Florida Water Management District
Post Office Box 24680
West Palm Beach, Florida 33416-4680

The "Notice of Rights" addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. You are advised, however, to be prepared to defend your position regarding the permit application when it is considered by the Governing Board for final agency action, even if you agree with the staff recommendation, as the Governing Board may take final agency action which differs materially from the proposed agency action.

Please contact the District if you have any questions concerning this matter.

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a "Notice of Rights" has been mailed to the addressee this 24th day of July, 2007 in accordance with Section 120.60 (3), Florida Statutes.

Sincerely,

A handwritten signature in black ink, appearing to read "Damon Meiers".

Damon Meiers, P.E., Deputy Director
Environmental Resource Regulation Department

DM/ja

CERTIFIED #7005 0390 0005 9817 0745
RETURN RECEIPT REQUESTED

GOVERNING BOARD

Kevin McCarty, *Chair*
Irela M. Bague, *Vice-Chair*
Miya Burt-Stewart

Alice J. Carlson
Michael Collins
Nicolás J. Gutiérrez, Jr., Esq.

Lennart E. Lindahl, P.E.
Harkley R. Thornton
Malcolm S. Wade, Jr.

EXECUTIVE OFFICE

Carol Ann Wehle, *Executive Director*

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 and/or judicial review when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Not all the legal proceedings detailed below may be an applicable or appropriate remedy. You may wish to consult an attorney regarding your legal rights.

Right to Request Administrative Hearing

A person whose substantial interests are or may be affected by the South Florida Water Management District's (SFWMD or District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569, 120.57, and 120.60(3), Fla. Stat. Persons seeking a hearing on a District decision which does or may determine their substantial interests shall file a petition for hearing with the District Clerk within 21 days of receipt of written notice of the decision in accordance with Rule 28-106.111, Fla. Admin. Code. Any person who receives written notice of a District decision and fails to file a written request for hearing within 21 days waives the right to request a hearing on that decision as provided by Subsection 28-106.111(4), Fla. Admin. Code.

The Petition must be filed at the Office of the District Clerk of the SFWMD, 3301 Gun Club Road, P.O. Box 24680, West Palm Beach, Florida, 33416, and must comply with the requirements of Rule 28-106.104, Fla. Admin. Code. Filings with the District Clerk may be made by mail, hand-delivery or facsimile. **Filings by e-mail will not be accepted.** A petition for administrative hearing is deemed filed upon receipt during normal business hours by the District Clerk at SFWMD headquarters in West Palm Beach, Florida. Pursuant to Rule 28-106.104, Fla. Admin. Code, any document received by the office of the District Clerk after 5:00 p.m. shall be filed as of 8:00 a.m. on the next regular business day.

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

The following provisions may be applicable to SFWMD actions in combination with the applicable Uniform Rules of Procedure (Subsections 40E-0.109(1)(a) and 40E-1.511(1)(a), Fla. Admin. Code):

- (1)(a) "Receipt of written notice of agency decision" as set forth in Rule 28-106.111, Fla. Admin. Code, means receipt of either written notice through mail or posting that the District has or intends to take final agency action, or publication of notice that the District has or intends to take final agency action.
- (b) If notice is published pursuant to Chapter 40E-1, F.A.C., publication shall constitute constructive notice to all persons. Until notice is published, the point of entry to request a formal or informal administrative proceeding shall remain open unless actual notice is received.
- (2) If the District's Governing Board takes action which substantially differs 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. The District Governing Board's action is considered to substantially differ from the notice of intended agency decision when the potential impact on water resources has changed.
- (3) Notwithstanding the timeline in Rule 28-106.111, Fla. Admin. Code, intended agency decisions or agency decisions regarding consolidated applications for Environmental Resource Permits and Use of Sovereign Submerged Lands pursuant to Section 373.427, Fla. Stat., shall provide a 14 day point of entry to file petitions for administrative hearing.

Hearings Involving Disputed Issues of Material Fact

The procedure for hearings involving disputed issues of material fact is set forth in Subsection 120.57(1), Fla. Stat., and Rules 28-106.201-217, Fla. Admin. Code. Petitions involving disputed issues of material fact shall be filed in accordance with Rule 28-106.104, Fla. Admin. Code, and must comply with the requirements set forth in Rule 28-106.201, Fla. Admin. Code.

Hearings Not Involving Disputed Issues of Material Fact

The procedure for hearings not involving disputed issues of material fact is set forth in Subsection 120.57(2), Fla. Stat., and Rules 28-106.301-.307, Fla. Admin. Code. Petitions not involving disputed issues of material fact shall be filed in accordance with Rule 28-106.104, Fla. Admin. Code, and must comply with the requirements set forth in Rule 28-106.301, Fla. Admin. Code.

Mediation

As an alternative remedy under Sections 120.569 and 120.57, Fla. Stat., any person whose substantial interests are or may be affected by the SFWMD's action may choose to pursue 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. Choosing mediation will not adversely affect the rights to a hearing if mediation does not result in a settlement.

DISTRICT COURT OF APPEAL

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



Last Date For Agency Action: 09-AUG-2007

INDIVIDUAL SURFACE WATER MANAGEMENT STAFF REPORT

Project Name: C-23 Outfall And Watershed B Retrofits

Permit No.: 56-00332-S

Application No.: 070601-4

Associated File: 070601-39 WU

Application Type: Surface Water Management (Construction/Operation Modification)

Location: St Lucie County, S7, 17-21, 28-34/T37S/R40E
S11,13,14,23-26, 36/T37S/R39E

Permittee : City Of Port St Lucie

Operating Entity : City Of Port St Lucie

Project Area: 240.73 acres

Project Land Use: Other
Residential

Drainage Basin: C-23

Drainage Basin: C-24

Receiving Body: C-23 Canal and E-8 Waterway

Class: CLASS III

Special Drainage District: NA

Conservation Easement To District : No

Sovereign Submerged Lands: No

PROJECT PURPOSE:

Modification of a Surface Water Management Permit to authorize construction and operation of water quality retrofits to serve approximately 241 acres of existing development in Watershed "B" and to add a high stage outfall from Watershed "A" to the C-23 Canal. Staff recommends approval with conditions.

PROJECT EVALUATION:**PROJECT SITE DESCRIPTION:**

Watershed "A" is a 8,802 acre developed basin located on the west side of the City of Port St. Lucie that is bordered by Gatlin Boulevard and Tulip Boulevard to the north, I-95 to the west, the Florida Turnpike to the east and the C-23 Canal to the south. The E-5 Canal (Horseshoe Canal) and the E-84 Canal are the main collection facilities for the Watershed "A" drainage basin, that discharges through three existing control structures; A-18, A-19 and A-20. An emergency outfall structure within the northern portion of Watershed "A" that discharges into the C-24 Canal adjacent to Florida's Turnpike has been permitted (App. No. 010706-4). The proposed high stage outfall into the C-23 Canal will provide for additional stormwater flow capability within the southern portion of the Watershed "A" Basin. The site for the proposed outfall structure is located at the intersection of the E-17 Canal and the C-23 Canal adjacent to Florida's Turnpike. Currently there is no structure in this location. The E-17 Canal was recently re-constructed as part of the Becker Road / Turnpike Interchange project.

Watershed "B" is a 2,298 acre developed basin located on the west side of the City of Port St. Lucie, bordered by the C-24 Canal to the north, I-95 to the west, Gatlin Boulevard (and Watershed "A") to the south and the Florida Turnpike to the east. The E-8 Waterway is the existing detention outfall for Watershed "B" that discharges through existing control structures B-1 and B-2 into the tidal portion of the C-24 Canal between Port St. Lucie Boulevard and the Florida Turnpike. The proposed improvements will provide additional water quality treatment within the Watershed "B" Basin. There are no wetlands located within or affected by this project.

PROJECT BACKGROUND:

The City of Port St. Lucie has a master surface water management (SWM) system serving the southwest portion of the city that is comprised of interconnected lakes that ultimately discharge to the St. Lucie River. The system was initially permitted in 1979 as a part of the General Development Corp. development of the City of Port St. Lucie. Since then, the permit has been modified many times for development within the City. In December of 2006 (App. No. 060926-17) the City of Port St. Lucie accepted the operation and maintenance responsibility for the master system covered by Permit No. 56-00332-S.

PROPOSED PROJECT:

Watershed "A": Construct an outfall structure with a 36" diameter operable maintenance gate in the City's E-17 Canal. The proposed outfall structure is designed to allow discharge when the E-17 Canal stages above the current 10-yr/3-day storm event. The structure will consist of a Type "K" inlet with the top grate/overflow set at the 10-yr/3-day storm elevation of 15.68 NGVD (14.20 NAVD). The 36" diameter operable maintenance gate will provide the ability for drawdown of the E-17 Canal for maintenance purposes. Any maintenance drawdown will require a dewatering permit approval (Water Use permit).

Watershed "B":

Construct the B-5 control structure at the E-80 Canal outfall into the E-8 Canal to provide additional water quality treatment.

Construct a 50 ft. weir structure (B-10) at the outfall of the Pond "N" Basin adjacent to the E-8 Canal to provide additional water quality treatment.

Modify the existing stormwater treatment area (STA) at the intersection of Oakner Street and the E-8 Canal to improve the function of the STA.

B-5: The B-5 control structure was included in the original design plan for the NE8.3B basin but never constructed. The existing NE8.3B basin, which totals 132.65 acres, drains into the E-51 and E-80 Canals which discharge into the E-8 Canal. The existing water quality volume within the basin is within a pond, which discharges into the E-51 Canal, and the storage within the roadside swales.

The existing NE8.3B basin will be split into two separate basins (B5U and NE8.3B). Basin B5U will include the proposed B-5 control structure that will control discharge from the E-80 Canal into the E-8 Canal. The B-5 structure will provide 8.80 ac-ft of water quality volume within the E-80 and E-51 Canals for the 105.56 acre basin before discharging into the E-8 Canal. Basin NE8.3B will include the remaining 27.09 acres on the north side of the E-8 Canal which flows directly into the E-8.

B-10: The B-10 control structure was included in the original design plan for the Pond "N" basin but never constructed. The existing Pond "N" basin collects local runoff from within adjoining basin areas and discharges freely into the E-8 Canal. The existing basin totals 4.11 acres which includes the 1.56 acre pond and the remaining green space within the basin. The existing B-10U basin drains into the E-44 Canal through a single 24" pipe and outfalls into the E-8 Canal.

To improve water quality in the B-10U basin, the existing pipe will be removed and the canal will be regraded to drain into a proposed 24" reinforced concrete pipe that will outfall into the adjacent Pond "N" which will provide water quality treatment for the existing Pond "N" and B10U basins. The new B-10 control structure will control discharge from the combined basins into the E-8 Canal. 2.12 ac-ft of water quality volume will be stored within Pond "N" before discharging into the E-8 canal.

Stormwater Treatment Area: The existing stormwater treatment area (STA) located in basin B20U provides water quality treatment and controls discharge into the E-8 canal over an existing weir. This existing weir is constructed as a steel sheet pile weir and concrete cap with a top of weir invert of 14.10 NGVD and a corrugated metal pipe with worm gear gate at invert 10.24 NGVD.

To improve the function of the STA, a weir will be installed in the E-8 canal to divert water through ten 30" diameter RCP pipes that will be installed between the STA and the E-8 Canal. The interior of the STA will be regraded and a diversion berm will be built to increase the flow path through the STA. The existing weir will remain at the discharge from the STA to the E-8 Canal.

WATER QUANTITY :

Discharge Rate :

The proposed project is consistent with the land use and site grading assumptions from the design of the master surface water management systems. The proposed water quality improvements will provide additional storage and will not result in an increase in the discharge rate. The grate elevation of the C-23 emergency structure is set at the design storm (10 year 3 day) stage and will not increase the discharge for the design storm.

Control Elevation :

Basin	Area (Acres)	Ctrl Elev (ft, NAVD 88)	WSWT Ctrl Elev (ft, NAVD 88)	Method Of Determination
B-5U	105.56	16	16.00	Previously Permitted
B-10U	25.41	15.05	15.05	Previously Permitted
STA	109.76	12.63	12.63	Previously Permitted

Receiving Body :

Basin	Str.#	Receiving Body
B-5u	B-5	E-8 Canal
B-10u	B-10	E-8 Canal

Receiving Body :

Basin	Str.#	Receiving Body
Sta	STA E-8 We	E-8 Canal
E-17	E-17 Emer	C-23 Canal

Discharge Structures: Note: The units for all the elevation values of structures are (ft, NAVD 88)

Gates:

Basin	Str#	Count	Type	Width	Height	Invert Elev.
E-17	E-17 Emerg	1	Slide Gate	3'	3'	4

Inlets:

Basin	Str#	Count	Type	Width	Length	Dia.	Crest Elev.
E-17	E-17 Emerg	1	Fdot Mod K Drop Inlet	5'	9'		14.2

Water Quality Structures: Note: The units for all the elevation values of structures are (ft, NAVD 88)

Bleeders:

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Invert Angle	Invert Elev.
B-10U	B-10	1	Rectangular Notch	1'	1.5'				15.05
B-5U	B-5	1	Rectangular Notch	2.5'	3.05'				16

Weirs:

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Elev.
B-10U	B-10	1	Sharp Crested	50'				16.55 (crest)
B-5U	B-5	1	Sharp Crested	30'				19.05 (crest)
STA	STA E-8 Weir	1	Rectangular Notch	30'	1.11'			17.6 (crest)
STA	STA E-8 Weir	1	Sharp Crested	100'				18.71 (crest)

WATER QUALITY :

The proposed water quality retrofits will add water quality treatment to the existing system. The "Required Volume" in the table below is based on one inch of water quality treatment for the basin served by the control structure.

No adverse water quality impacts are anticipated as a result of the proposed project. The applicant has provided reasonable assurances that water quality standards will not be violated as a result of the proposed work. Best Management Practices (BMPs) will be implemented and silt screens and turbidity barriers will be placed so as to contain turbidity during construction of the proposed project. All erosion and turbidity control measures shall remain in place until the completion of onsite construction. Please refer to Exhibit 2 and the Special Conditions.

The applicant will implement a water quality monitoring plan in accordance with Exhibit 3 and the Special Conditions. In addition, riprap will be placed on the downstream end of the proposed C-23 emergency outfall structure to prevent erosion.

Basin	Treatment Method		Vol Req'd (ac-ft)	Vol Prov'd
B-5U	Treatment	Wet Detention	8.8	8.8
B-10U	Treatment	Wet Detention	2.12	2.12

Basin	Treatment Method		Vol Req.d (ac-ft)	Vol Prov'd
STA	Treatment	Wet Detention	9.15	9.15

Wildlife Issues:

No wetland-dependent endangered/threatened species or species of special concern were observed onsite; however, portions of the proposed project are in the known range of the West Indian manatee (*Trichechus manatus*). To reduce the risk of entrapment and drowning of manatees, manatee exclusion grating shall be installed over any submerged or partially submerged pipes and culverts accessible to manatees during any tidal phase (Exhibit 2.3). The standard manatee construction conditions will also be followed for all in-water construction in areas accessible to manatees during any tidal phase. This permit does not relieve the applicant from complying with all applicable rules and any other agencies' requirements if, in the future, endangered/threatened species or species of special concern are discovered on the site. Please refer to the Special Conditions.

Species	Potential Occurrence	Use Types
Manatee	Known Range	Known Use

CERTIFICATION AND MAINTENANCE OF THE WATER MANAGEMENT SYSTEM:

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

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

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

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

RELATED CONCERNS:

Water Use Permit Status:

The applicant has indicated that irrigation water is not required for the project.

The applicant has indicated that dewatering is required for construction of this project. Water Use application number 070601-39 has been submitted and is being processed concurrently for this project.

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation, unless the work qualifies for a No-Notice Short-Term Dewatering permit pursuant to Chapter 40E-20.302(3) or is exempt pursuant to Section 40E-2.051, FAC.

CERP:

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

Potable Water Supplier:

Potable water is not required for the project.

Waste Water System/Supplier:

Waste water service is not required for the project.

Right-Of-Way Permit Status:

A Right-of-Way Permit, 07-0613-1, is being processed concurrently for this project.

DRI Status:

This project is not a DRI.

Historical/Archeological Resources:

No information has been received that indicates the presence of archaeological or historical resources or that the proposed activities could cause adverse impacts to archaeological or historical resources.

DCA/CZM Consistency Review:

The District has not received a finding of inconsistency from the Florida Department of Environmental Protection or other commenting agencies regarding the provisions of the federal Coastal Zone Management Plan.

Third Party Interest:

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

Enforcement:

There has been no enforcement activity associated with this application.

STAFF RECOMMENDATION:

The Staff recommends that the following be issued :

Construction and operation modification of a surface water management system for water quality retrofits to serve approximately 241 acres of existing development in Watershed "B" and to add a high stage outfall from Watershed "A" to the C-23 Canal.

Based on the information provided, District rules have been adhered to.

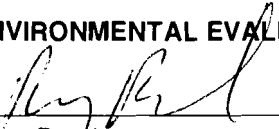
Staff recommendation is for approval subject to the attached
Standard Limiting and Special Conditions.



STAFF REVIEW:

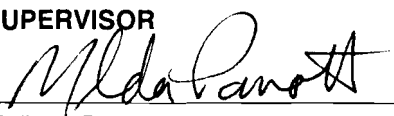
NATURAL RESOURCE MANAGEMENT DIVISION APPROVAL

ENVIRONMENTAL EVALUATION



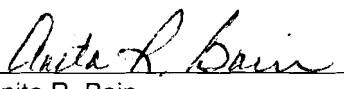
Ryan Bond

SUPERVISOR



Melinda Parrott

DIVISION DIRECTOR :

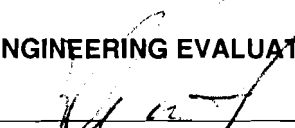


Anita R. Bain

DATE: 7/23/07

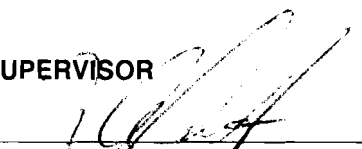
SURFACE WATER MANAGEMENT DIVISION APPROVAL

ENGINEERING EVALUATION



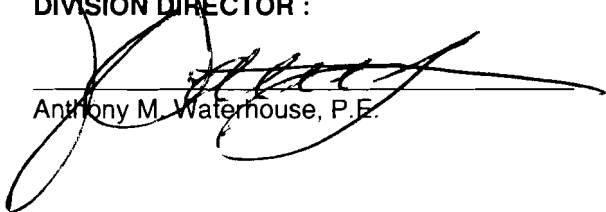
Hugo A. Carter, P.E.

SUPERVISOR



Hugo A. Carter, P.E.

DIVISION DIRECTOR :



Anthony M. Waterhouse, P.E.

DATE: 7/18/07

LIMITING CONDITIONS

1. The permittee shall implement the work authorized in a manner so as to minimize any adverse impact of the works on fish, wildlife, natural environmental values, and water quality. The permittee shall institute necessary measures during the construction period, including full compaction of any fill material placed around newly installed structures, to reduce erosion, turbidity, nutrient loading and sedimentation in the receiving waters.
2. Water quality data for the water discharged from the permittee's property or into surface waters of the State will be submitted to the District as required by Section 5.9, "Basis of Review for Surface Water Management Permit Applications within South Florida Water Management District". Parameters to be monitored may include those listed in Chapter 62-302, F.A.C.. If water quality data is required, the permittee shall provide data on volumes of water discharged, including total volume discharged during the days of sampling and total monthly discharges from the property or into surface waters of the State.
3. This permit shall not relieve the permittee of any obligation to obtain necessary federal, State, local or special district approvals.
4. The operation phase of this permit will not become effective until the District's acceptance of certification of the completed surface water management system. The permittee shall request transfer of the permit to the responsible operation entity accepted by the District, if different from the permittee. The transfer request can be submitted concurrently with the construction completion certification.
5. All road elevations shall be set in accordance with the criteria set forth in Section 6.5, "Basis of Review for Surface Water Management Permit Applications within South Florida Water Management District".
6. All building floor elevations shall be set in accordance with the criteria set forth in Section 6.4, "Basis of Review for Surface Water Management Permit Applications within South Florida Water Management District".
7. Off-site discharges during construction and development will be made only through the facilities authorized by this permit.
8. A permit transfer to the operation phase shall not occur until a responsible entity meeting the requirement in Section 9.0, "Basis of Review for Surface Water Management Permit Applications within South Florida Water Management District" has been established to operate and maintain the system. The entity must be provided with sufficient ownership or legal interest so that it has control over all water management facilities authorized herein.
9. The permit does not convey to the permittee any property rights or privileges other than those specified in the permit and Chapter 40E-4, F.A.C..
10. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance or use of any facility authorized by the permit.
11. This permit is issued based on the applicant's submitted information which reasonably demonstrates that adverse water resource related impacts will not be caused by the completed permit activity. Should any adverse impacts caused by the completed surface water management system occur, the District will require the permittee to provide appropriate mitigation to the District or other impacted party. The District will require the permittee to modify the surface water management system, if necessary, to eliminate the cause of the adverse impacts.

LIMITING CONDITIONS

12. Within 30 days of issuance of this permit, the permittee or authorized agent shall notify the District (via the supplied construction commencement notice or equivalent) of the actual or anticipated construction start date and the expected completion date.
13. When the duration of construction exceeds one year, the permittee or authorized agent shall submit construction status reports on an annual basis (via the supplied annual status report or equivalent) beginning one year after the initial commencement of construction.
14. Within 30 days after completion of construction of the surface water management system, the permittee or authorized agent shall file a written statement of completion and certification by a Florida registered professional engineer. These statements must specify the actual date of construction completion and must certify that all facilities have been constructed in substantial conformance with the plans and specifications approved by the District (via the supplied construction completion/certification or equivalent). The construction completion certification must include, at a minimum, existing elevations, locations and dimensions of the components of the water management facilities. Additionally, if deviations from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted.
15. Within 30 days of any sale, conveyance or other transfer of any of the land which is proposed for development under the authorization of this permit, the permittee shall notify the District of such transfer in writing via either Form 0483, Request for Permit Transfer; or Form 0920, Request for Transfer of Surface Water Management Construction Phase to Operation Phase (to be completed and submitted by the operating entity), in accordance with Sections 40E-1.6105 AND 40E-4.351, F.A.C..
16. A prorated share of surface water management retention/detention areas, sufficient to provide the required flood protection and water quality treatment, must be provided prior to occupancy of any building or residence.
17. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
18. It is the responsibility of the permittee to insure that adverse off-site water resource related impacts do not occur during construction.
19. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(4), F.A.C..

SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on August 9, 2012.
2. Operation of the surface water management system shall be the responsibility of the permittee.
3. Discharge Facilities:

Basin: B-5U

1-30' WIDE SHARP CRESTED weir with crest at elev. 19.05' NAVD 88.
1-2.5' W X 3.05' H RECTANGULAR NOTCH with invert at elev. 16' NAVD 88.
Receiving body : E-8 Canal
Control elev : 16 feet NAVD 88.

Basin: B-10U

1-50' WIDE SHARP CRESTED weir with crest at elev. 16.55' NAVD 88.
1-1' W X 1.5' H RECTANGULAR NOTCH with invert at elev. 15.05' NAVD 88.
Receiving body : E-8 Canal
Control elev : 15.05 feet NAVD 88.

Basin: STA

1-100' WIDE SHARP CRESTED weir with crest at elev. 18.71' NAVD 88.
1-30' W X 1.11' H RECTANGULAR NOTCH weir with crest at elev. 17.6' NAVD 88.
Receiving body : E-8 Canal
Control elev : 12.63 feet NAVD 88.

Basin: E-17

1-5' W X 9' L drop inlet with crest at elev. 14.2' NAVD 88.
1-3' wide X 3' high slide gate with invert at elev. 4' NAVD 88.
Receiving body : C-23 Canal

4. The permittee shall be responsible for the correction of any erosion, shoaling or water quality problems that result from the construction or operation of the surface water management system.
5. Measures shall be taken during construction to insure that sedimentation and/or turbidity violations do not occur in the receiving water.
6. The District reserves the right to require that additional water quality treatment methods be incorporated into the drainage system if such measures are shown to be necessary.
7. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of two feet below the control elevation. Side slopes shall be nurtured or planted from 2 feet below to 1 foot above control elevation to insure vegetative growth, unless shown on the plans.
8. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.
9. A stable, permanent and accessible elevation reference shall be established on or within one hundred (100) feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.
10. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse

SPECIAL CONDITIONS

flooding conditions.

11. Silt screens, hay bales, turbidity screens/barriers or other such sediment control measures shall be utilized during construction. The selected sediment control measures shall be installed prior to the commencement of construction in or adjacent to other surface waters in accordance with Exhibit No. 2 and shall remain in place until all adjacent construction is completed. All areas shall be stabilized and vegetated immediately after construction to prevent erosion into the surface waters.
12. A water quality monitoring program shall be implemented as outlined below:

Turbidity expressed in nephelometric turbidity units (ntu). Background samples shall be taken 300 feet upstream of any construction activity within adjacent surface waters. Compliance samples shall also be taken 100 feet downstream. Samples shall be taken twice daily, with at least a four-hour interval, during all in-water work authorized in the C-23 and E-8 Canals by this permit.

Monitoring shall begin on the first day of construction for all activities within or adjacent to surface waters. Monitoring shall cease when all construction activities are completed. The monitoring data must demonstrate that turbidity 100 feet downstream of all proposed activities is less than or equal to 29 NTU's above natural background turbidity and 100 feet upstream of each proposed activity for a period of 7 consecutive days after completion of construction. If monitoring shows such levels to be exceeded, construction shall cease and District compliance staff shall be notified immediately. Work shall not resume until District staff is satisfied that adequate corrective measures have been taken and turbidity has returned to acceptable levels.

All monitoring data shall be maintained onsite and be available to District staff during regular business hours. All monitoring data shall be submitted within one (1) week of analysis, and the monitoring reports shall include:

1) permit and application number; (2) dates of sampling and analysis; (3) statement describing the methods used in collection, handling, storage and analysis of the samples; (4) a map indicating the sampling locations and (5) a statement by the individual responsible for implementation of the sampling program concerning the authenticity, precision, limits of detection and accuracy of the data.

Monitoring reports shall also include the following information for each sample that is taken:

- (a) time of day samples taken;
- (b) depth of water body;
- (c) depth of samples;
- (d) antecedent weather conditions;
- (e) wind direction and velocity;
- (f) tidal stage and direction of flow.

Monitoring reports shall be submitted to the District Environmental Resource Compliance staff. Failure to submit reports in a timely manner (as indicated above) constitutes grounds for revocation of the permit, enforcement or other action by the District.

13. Manatee exclusion gates shall be placed across the openings of existing or proposed culverts or pipes that are greater than eight inches but smaller than eight feet in diameter in accordance with Exhibit No. 2. The installation of gates applies to any submerged or partially submerged pipes and culverts accessible to manatees during any tidal phase. Permittee shall keep all gates free and clear of debris.
14. The permittee shall instruct all personnel associated with the project of the potential presence of manatees and the need to avoid collisions with manatees. All construction personnel are responsible for observing water-related activities for the presence of manatee(s).

SPECIAL CONDITIONS

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 of 1972, The Endangered Species Act of 1973, and the Florida Manatee Sanctuary Act.

Siltation barriers shall be made of material in which manatees cannot become entangled, are properly secured, and are regularly monitored to avoid manatee entrapment. Barriers must not block manatee entry to or exist from essential habitat.

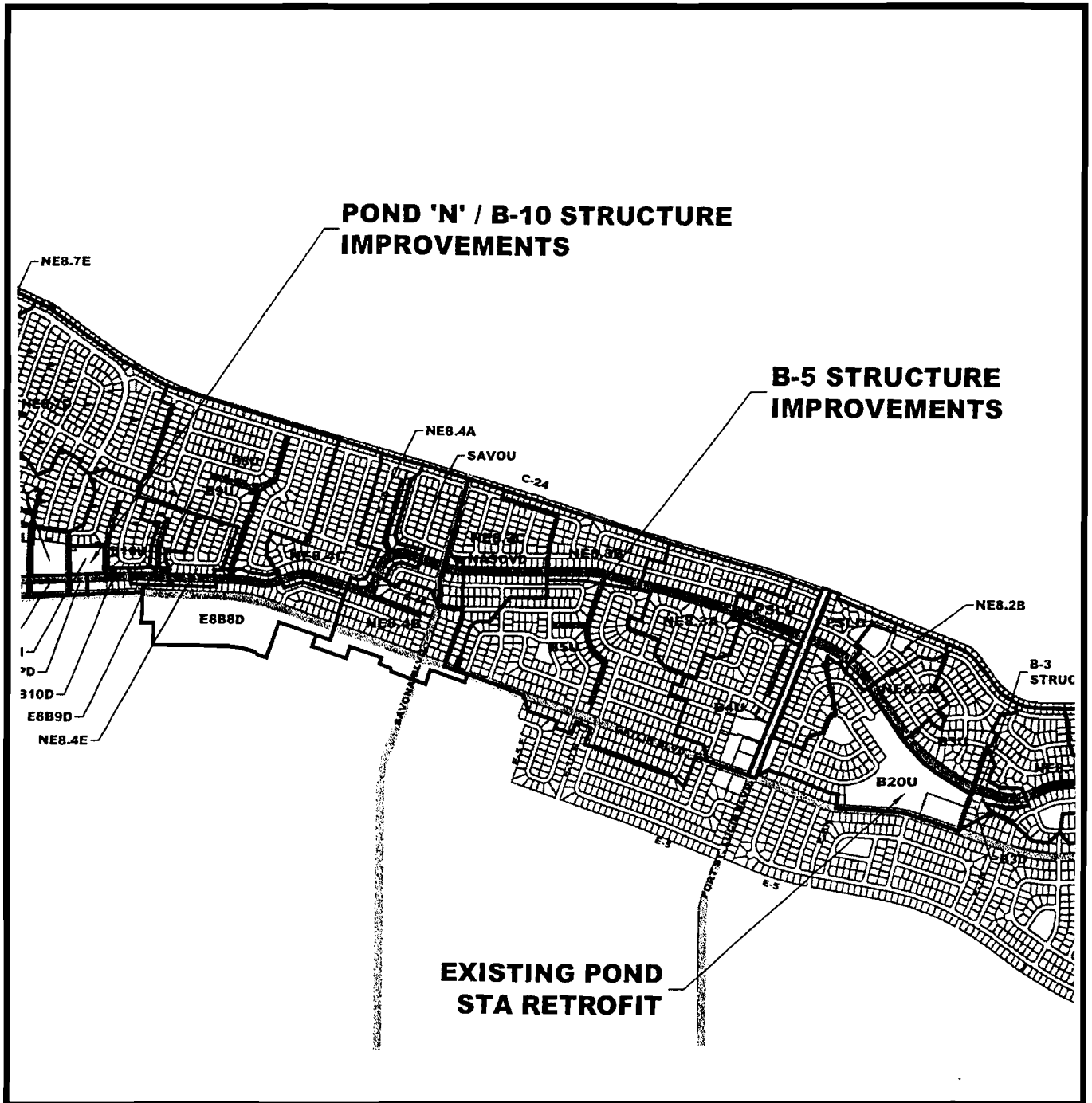
All vessels associated with the construction project shall operate at "no wake/idle" speeds at all times while in the construction area and while in water where the draft of the vessel provides less than a four-foot clearance from the bottom. All vessels will follow routes of deep water whenever possible.

If manatee(s) are seen within 100 yards of the active daily construction/dredging operation or vessel movement, all appropriate precautions shall be implemented to ensure protection of the manatee. These precautions shall include the operation of all moving equipment no closer than 50 feet of a manatee. Operation of any equipment closer than 50 feet to a manatee shall necessitate immediate shutdown of that equipment. Activities will not resume until the manatee(s) has departed the project area of its own volition.

Any collision with and/or injury to a manatee shall be reported immediately to the FWC Hotline at 1-888-404-FWCC. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580) for north Florida or Vero Beach (1-772-562-3909) in south Florida.

Temporary signs concerning manatees shall be posted prior to and during all construction/dredging activities. All signs are to be removed by the permittee upon completion of the project. A sign measuring at least 3 ft. by 4 ft. which reads Caution: Manatee Area will be posted in a location prominently visible to water related construction crews. A second sign should be posted if vessels are associated with the construction, and should be placed visible to the vessel operator. The second sign should be at least 8 1/2" by 11" which reads Caution: Manatee Habitat. Idle speed is required if operating a vessel in the construction area. All equipment must be shutdown if a manatee comes within 50 feet of operation. Collision and/or injury should also be reported to the U.S. Fish and Wildlife Service in Jacksonville (1-904-232-2580) for north Florida or Vero Beach (1-772-562-3909) in south Florida.

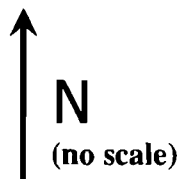
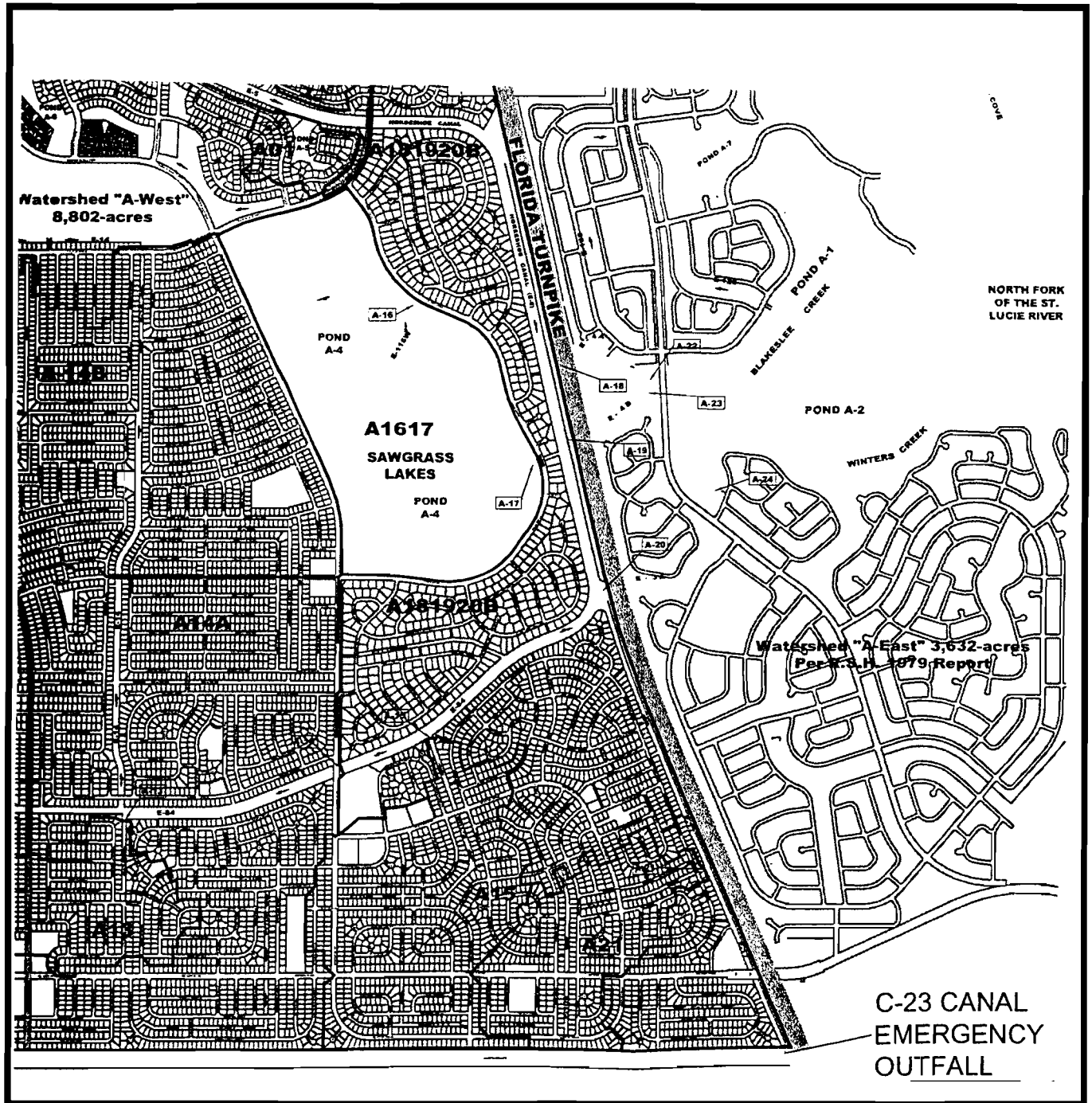
15. Endangered species, threatened species and/or species of special concern have been observed onsite and/or the project contains suitable habitat for these species. It shall be the permittee's responsibility to coordinate with the Florida Fish and Wildlife Conservation Commission and/or the U.S. Fish and Wildlife Service for appropriate guidance, recommendations and/or necessary permits to avoid impacts to listed species.
16. The exhibits and special conditions in this permit apply only to this application. They do not supersede or delete any requirements for other applications covered in Permit No. 56-00332-S unless otherwise specified herein.
17. The operable structure shall remain closed at all times unless specific approval is granted by the District for its operation. The structures shall not be operated to bypass the water quality detention requirements or to lower the E-17 Canal below the permitted control elevations for the project unless authorized by a District dewatering permit, unless the dewatering is determined by District staff to not require a permit. If for whatever reason, it is determined that the permittee has not complied with the directives of the District, and/or has operated the structure contrary to the intended purpose of this permit, the structure shall be modified to permanently prevent operation of the structure. In addition, the structure shall be equipped with a mechanism to prevent unauthorized use.



N

(no scale)

C-23 OUTFALL AND WATERSHED B RETROFITS Location Map



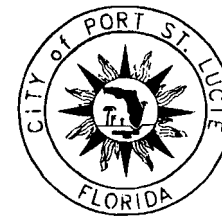
C-23 OUTFALL AND WATERSHED B RETROFITS Location Map

Application 070601-4

Exhibit 1-B



CONSTRUCTION PLANS FOR WATERSHED 'B' PHASE 2 WATER QUALITY RETROFITS FOR THE CITY OF PORT ST. LUCIE LYING WITHIN THE CITY OF PORT ST. LUCIE ST. LUCIE COUNTY, FLORIDA



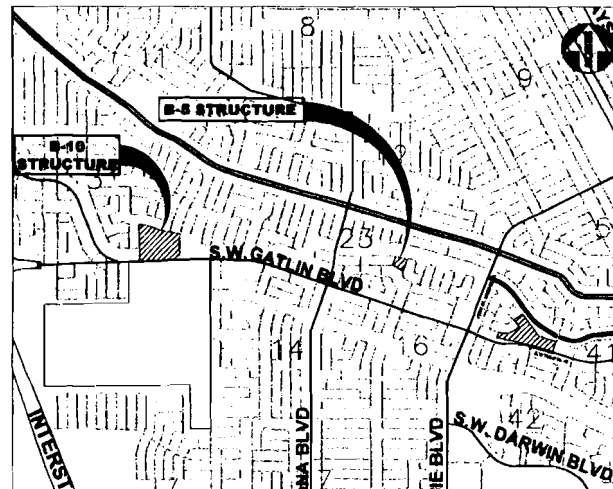
CITY OFFICIALS

PATRICIA CHRISTENSEN
JASH KELLY
MICHELLE L. BARGER
CHRISTOPHER S. COOPER
LINDA BARTZ
DONALD S. COOPER
WALTER ENGLAND, P.E.

MAYOR
VICE MAYOR
COUNCIL MEMBER
COUNCIL MEMBER
COUNCIL MEMBER
CITY MANAGER
CITY ENGINEER

ENGINEER

MR. JOSEPH W. CAPRA, P.E.
CAPTEC ENGINEERING, INC.
361 NW FLAGLER AVENUE
STUART, FLORIDA 34904
PHONE: (772) 623-4344
FAX: (772) 623-4341
EMAIL: CAPTEC1@AOL.COM
P.E. NO. 37630



Site Map

N.T.S.

ELEVATIONS AS SHOWN HEREON REFERENCE MOVD 1989 DATUM, REFERENCE AN PORT ST. LUCIE BENCHMARK "48M" ELEVATION = 33.844 FEET, PORT ST. LUCIE BENCHMARK "33P" ELEVATION = 19.888 FEET AND PORT ST. LUCIE BENCHMARK "35S 489" ELEVATION = 32.383 FEET.

SHEET INDEX

SHEET NUMBER	SHEET TITLE/DESCRIPTION
1	COVER SHEET
2-3	SPECIFIC PURPOSE SURVEYS
4	B-8 CONTROL STRUCTURE CONSTRUCTION PLANS AND SECTIONS
5	B-10 CONTROL STRUCTURE CONSTRUCTION PLANS AND SECTIONS
6	DRAINAGE DETAILS
7	GENERAL NOTES

APPLICATION 070601-4
EXHIBIT 2.1A

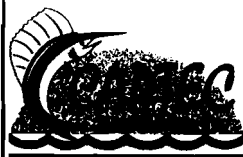
ORIGINAL SUBMITTAL
JUN 1 2002
M/SL
MSE/EC

[Signature]
JUN 11 2002

PROJECT #607.2 - WATERSHED 'B' PHASE 2 WATER QUALITY RETROFITS

PROJECT #607.2 - WATERSHED 'B' PHASE 2 WATER QUALITY RETROFITS

070601-4

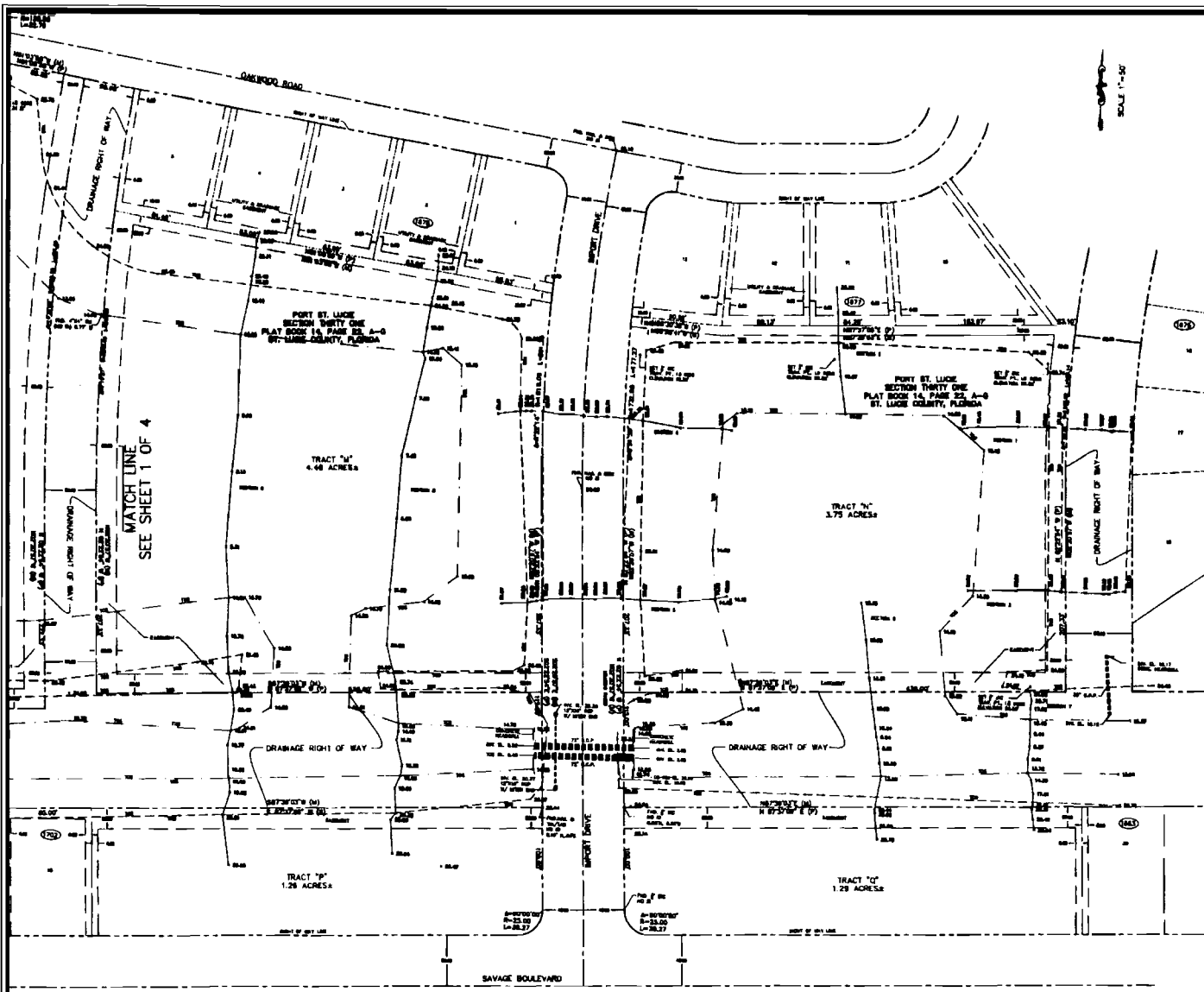


Civil Engineering Professionals

Engineering Business
Bld. 28-0027667

Civil Engineering
Professionals

301 N.W. Flagler Avenue
Stuart, Florida 34904
Phone: (772) 662-0544
Fax: (772) 662-0541
Email: Capra1@AOL.COM



- ABBREVIATIONS**
- CHC BORN
 - CONCRETE MONUMENT
 - CONCRETE PLASTIC PIPE
 - DELSA
 - ELEVATION
 - FOUND
 - MARK
 - IRON ROD & CAP
 - LEARNED BARRIER NUMBER
 - MEASURED
 - PROFESSIONAL LAND SURVEYOR
 - POINT
 - REMARKS
 - RECORDED CONCRETE PIPE
 - TOP OF ROAD
 - LINE OF SLOPE
 - BRIDGE
- SYMBOL LEGEND**
- 1. MAP FIELD LOCATES POINT WITH ELEVATION
 - 2. CONCRETE MONUMENT
 - 3. IRON ROD AND CAP
 - 4. 1/4" & 1/2" AND 1/4" 1/4"

- SURVEYOR'S NOTES**
1. BEARINGS AS SHOWN HEREON ARE BASED ON STATE PLANE COORDINATES, REFERENCE THE NORTH AMERICAN DATUM OF 1983 (N.A.D. 83), FLORIDA EAST ZONE. REFERENCE A BEARING OF $N42^{\circ}20'57''W$ ALONG THE EAST RIGHT OF WAY LINE OF IMPORT DRIVE.
 2. ELEVATIONS AS SHOWN HEREON REFERENCE NAVD 83 DATUM. REFERENCE AN PORT ST. LUCIE COUNTY BENCHMARK BM 4008. ELEVATION = 21.888 FEET.
 3. THIS SURVEY WAS DONE WITHOUT THE BENEFIT OF A TITLE COMMITMENT.
 4. THIS SURVEY IS BASED ON A CLOSED GEOMETRIC FIGURE EXCEEDING A HORIZONTAL CLOSURE OF 1:110,000.
 5. THERE WAS NO ATTEMPT TO LOCATE ANY SUBSURFACE FOUNDATIONS.
 6. NO UNDERGROUND UTILITIES WERE LOCATED OR SHOWN HEREON.
 7. THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR.
 8. THIS PROPERTY IS LOCATED IN FEDERAL FLOOD ZONE K, REFERENCE FEMA MAP COMMUNITY NO. 120287, PANEL 0273, SUFFIX F, EFFECTIVE DATE AUGUST 19, 1991.

APPLICATION 070601-4
EXHIBIT 2.1C

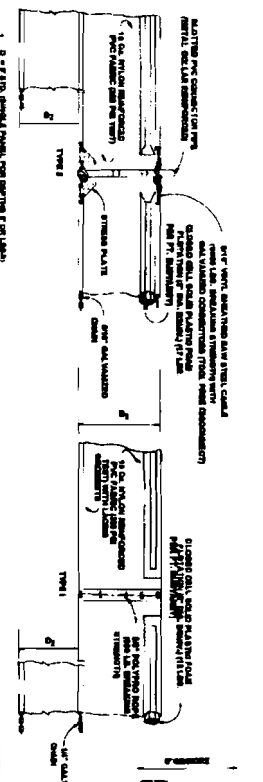
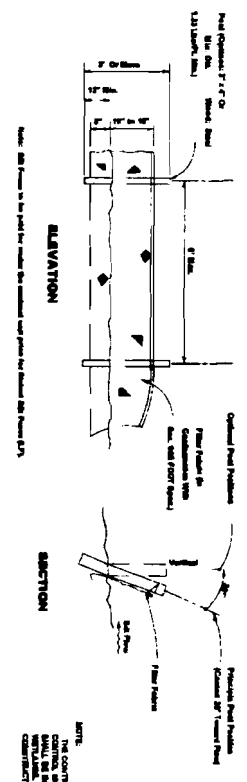
B B BETSY LINDSAY, INC.
 SURVEYING AND MAPPING
 707 W. JACK JAMES DRIVE STUART, FLORIDA 34987
 888-888-8888 FAX
 LICENSED SURVEYOR NO. 0002

DATE	REVISIONS

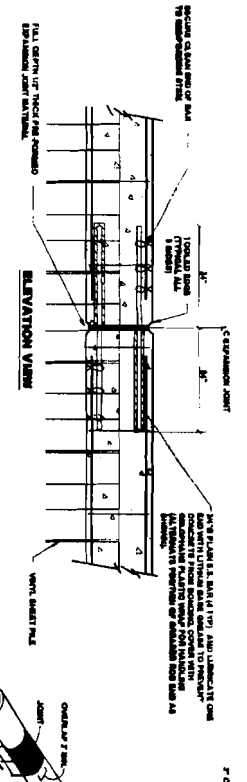
DATE XX/XX/05
 SCALE 1"=40'
 FIELD BY XXXXXXXX
 DRAWN BY XX
 CHECKED BY XX

PORT ST. LUCIE E-B PHASE II POND L, M AND N
 CAPTEC ENGINEERING, INC.
 SPECIFIC PURPOSE SURVEY

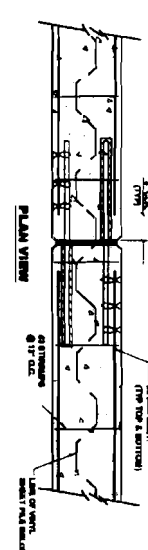
SHEET NO. 3
 OF 7 SHEETS
 PROJECT NO.
 08-110



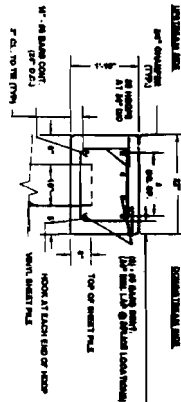
FLOATING TURBIDITY BARRIERS



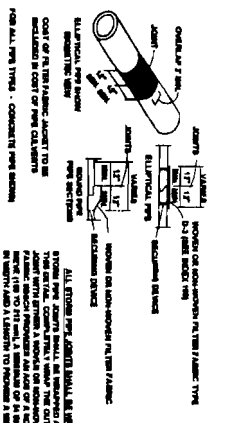
BUCKHEAD CAP DETAIL



STAKED TURBIDITY BARRIER



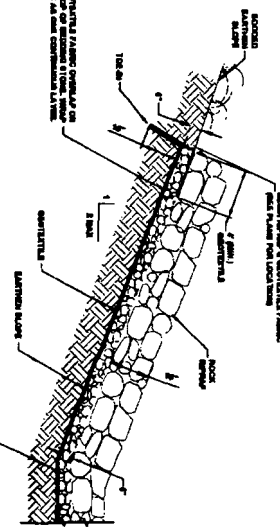
SHEET PILE BUCKHEAD CAP DETAIL



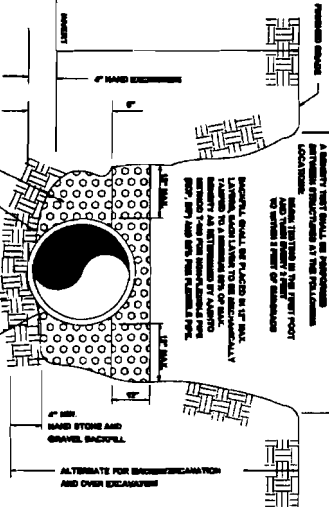
FILTER FABRIC JACKET DETAIL



TYPICAL RIPRAP INSTALLATION DETAIL



TYPICAL TRENCH DETAIL



**WATERSHED 'B' PHASE 2
WATER QUALITY RETROFITS
PORT ST. LUCIE, FLORIDA**

**DRAINAGE DETAILS
APPLICATION 070601-4**

EXHIBIT 2.1F

SCALE VERIFICATION

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

DATE

PROJECT NO.

SCALE

DATE

COMPEC

Civil Engineering Professionals

[illegible][illegible]

NO - REINFORCED CONCRETE PIPE
 RNY - REINFORCED CONCRETE PIPE, BELL/FLANGE
 HRP - HIGH DENSITY POLYETHYLENE
 CAP - CORRUGATED ALUMINUM PIPE
 N/A - MIXED END SECTION

REPORT

2. ROCK SHALL COVERED BY PLASTER, STONE, MASON, AND/OR ANOTHER ROCK WITH THE FOLLOWING REQUIREMENTS FOR FINISHES: (a) PLASTER SHALL BE FINISHED WITH A FINISH OF PLASTER OR STUCCO, (b) STONE SHALL BE FINISHED WITH A FINISH OF PLASTER OR STUCCO, (c) MASON SHALL BE FINISHED WITH A FINISH OF PLASTER OR STUCCO, (d) ANOTHER ROCK SHALL BE FINISHED WITH A FINISH OF PLASTER OR STUCCO.

[illegible]

THE NEW YORK TIMES, NEW YORK, N.Y., MAY 1, 1970, PAGE 1, C-1, C-2, C-3, C-4, C-5, C-6, C-7, C-8, C-9, C-10, C-11, C-12, C-13, C-14, C-15, C-16, C-17, C-18, C-19, C-20, C-21, C-22, C-23, C-24, C-25, C-26, C-27, C-28, C-29, C-30, C-31, C-32, C-33, C-34, C-35, C-36, C-37, C-38, C-39, C-40, C-41, C-42, C-43, C-44, C-45, C-46, C-47, C-48, C-49, C-50, C-51, C-52, C-53, C-54, C-55, C-56, C-57, C-58, C-59, C-60, C-61, C-62, C-63, C-64, C-65, C-66, C-67, C-68, C-69, C-70, C-71, C-72, C-73, C-74, C-75, C-76, C-77, C-78, C-79, C-80, C-81, C-82, C-83, C-84, C-85, C-86, C-87, C-88, C-89, C-90, C-91, C-92, C-93, C-94, C-95, C-96, C-97, C-98, C-99, C-100, C-101, C-102, C-103, C-104, C-105, C-106, C-107, C-108, C-109, C-110, C-111, C-112, C-113, C-114, C-115, C-116, C-117, C-118, C-119, C-120, C-121, C-122, C-123, C-124, C-125, C-126, C-127, C-128, C-129, C-130, C-131, C-132, C-133, C-134, C-135, C-136, C-137, C-138, C-139, C-140, C-141, C-142, C-143, C-144, C-145, C-146, C-147, C-148, C-149, C-150, C-151, C-152, C-153, C-154, C-155, C-156, C-157, C-158, C-159, C-160, C-161, C-162, C-163, C-164, C-165, C-166, C-167, C-168, C-169, C-170, C-171, C-172, C-173, C-174, C-175, C-176, C-177, C-178, C-179, C-180, C-181, C-182, C-183, C-184, C-185, C-186, C-187, C-188, C-189, C-190, C-191, C-192, C-193, C-194, C-195, C-196, C-197, C-198, C-199, C-200, C-201, C-202, C-203, C-204, C-205, C-206, C-207, C-208, C-209, C-210, C-211, C-212, C-213, C-214, C-215, C-216, C-217, C-218, C-219, C-220, C-221, C-222, C-223, C-224, C-225, C-226, C-227, C-228, C-229, C-230, C-231, C-232, C-233, C-234, C-235, C-236, C-237, C-238, C-239, C-240, C-241, C-242, C-243, C-244, C-245, C-246, C-247, C-248, C-249, C-250, C-251, C-252, C-253, C-254, C-255, C-256, C-257, C-258, C-259, C-260, C-261, C-262, C-263, C-264, C-265, C-266, C-267, C-268, C-269, C-270, C-271, C-272, C-273, C-274, C-275, C-276, C-277, C-278, C-279, C-280, C-281, C-282, C-283, C-284, C-285, C-286, C-287, C-288, C-289, C-290, C-291, C-292, C-293, C-294, C-295, C-296, C-297, C-298, C-299, C-300, C-301, C-302, C-303, C-304, C-305, C-306, C-307, C-308, C-309, C-310, C-311, C-312, C-313, C-314, C-315, C-316, C-317, C-318, C-319, C-320, C-321, C-322, C-323, C-324, C-325, C-326, C-327, C-328, C-329, C-330, C-331, C-332, C-333, C-334, C-335, C-336, C-337, C-338, C-339, C-340, C-341, C-342, C-343, C-344, C-345, C-346, C-347, C-348, C-349, C-350, C-351, C-352, C-353, C-354, C-355, C-356, C-357, C-358, C-359, C-360, C-361, C-362, C-363, C-364, C-365, C-366, C-367, C-368, C-369, C-370, C-371, C-372, C-373, C-374, C-375, C-376, C-377, C-378, C-379, C-380, C-381, C-382, C-383, C-384, C-385, C-386, C-387, C-388, C-389, C-390, C-391, C-392, C-393, C-394, C-395, C-396, C-397, C-398, C-399, C-400, C-401, C-402, C-403, C-404, C-405, C-406, C-407, C-408, C-409, C-410, C-411, C-412, C-413, C-414, C-415, C-416, C-417, C-418, C-419, C-420, C-421, C-422, C-423, C-424, C-425, C-426, C-427, C-428, C-429, C-430, C-431, C-432, C-433, C-434, C-435, C-436, C-437, C-438, C-439, C-440, C-441, C-442, C-443, C-444, C-445, C-446, C-447, C-448, C-449, C-450, C-451, C-452, C-453, C-454, C-455, C-456, C-457, C-458, C-459, C-460, C-461, C-462, C-463, C-464, C-465, C-466, C-467, C-468, C-469, C-470, C-471, C-472, C-473, C-474, C-475, C-476, C-477, C-478, C-479, C-480, C-481, C-482, C-483, C-484, C-485, C-486, C-487, C-488, C-489, C-490, C-491, C-492, C-493, C-494, C-495, C-496, C-497, C-498, C-499, C-500, C-501, C-502, C-503, C-504, C-505, C-506, C-507, C-508, C-509, C-510, C-511, C-512, C-513, C-514, C-515, C-516, C-517, C-518, C-519, C-520, C-521, C-522, C-523, C-524, C-525, C-526, C-527, C-528, C-529, C-530, C-531, C-532, C-533, C-534, C-535, C-536, C-537, C-538, C-539, C-540, C-541, C-542, C-543, C-544, C-545, C-546, C-547, C-548, C-549, C-550, C-551, C-552, C-553, C-554, C-555, C-556, C-557, C-558, C-559, C-560, C-561, C-562, C-563, C-564, C-565, C-566, C-567, C-568, C-569, C-570, C-571, C-572, C-573, C-574, C-575, C-576, C-577, C-578, C-579, C-580, C-581, C-582, C-583, C-584, C-585, C-586, C-587, C-588, C-589, C-590, C-591, C-592, C-593, C-594, C-595, C-596, C-597, C-598, C-599, C-600, C-601, C-602, C-603, C-604, C-605, C-606, C-607, C-608, C-609, C-610, C-611, C-612, C-613, C-614, C-615, C-616, C-617, C-618, C-619, C-620, C-621, C-622, C-623, C-624, C-625, C-626, C-627, C-628, C-629, C-630, C-631, C-632, C-633, C-634, C-635, C-636, C-637, C-638, C-639, C-640, C-641, C-642, C-643, C-644, C-645, C-646, C-647, C-648, C-649, C-650, C-651, C-652, C-653, C-654, C-655, C-656, C-657, C-658, C-659, C-660, C-661, C-662, C-663, C-664, C-665, C-666, C-667, C-668, C-669, C-670, C-671, C-672, C-673, C-674, C-675, C-676, C-677, C-678, C-679, C-680, C-681, C-682, C-683, C-684, C-685, C-686, C-687, C-688, C-689, C-690, C-691, C-692, C-693, C-694, C-695, C-696, C

MAINT. QUALITY NOTES

THE CHAIRMAN, CONGRESSMAN JAMES H. LEACH, R-IA, HAS A LONG RECORD OF COMMITMENT TO THE QUALITY OF LIFE IN HIS CONSTITUENT DISTRICT. HE HAS BEEN A LEADER IN THE FIGHT AGAINST DRUGS AND ALCOHOL ABUSE, AND HAS BEEN A VIGILANT WATCHDOG ON THE BEHAVIOR OF THE FEDERAL GOVERNMENT. HE HAS BEEN A LEADER IN THE FIGHT AGAINST THE DESTRUCTION OF THE ENVIRONMENT, AND HAS BEEN A VIGILANT WATCHDOG ON THE BEHAVIOR OF THE FEDERAL GOVERNMENT. HE HAS BEEN A LEADER IN THE FIGHT AGAINST THE DESTRUCTION OF THE ENVIRONMENT, AND HAS BEEN A VIGILANT WATCHDOG ON THE BEHAVIOR OF THE FEDERAL GOVERNMENT.

[illegible]

THESE RESULTS ARE IN ACCORDANCE WITH THE CONCLUSIONS OF OTHER INVESTIGATORS WHO HAVE REPORTED THAT THE INFLUENCE OF THE INFLUENTIAL GROUPS ON THE POLITICAL BEHAVIOR OF THE INDIVIDUALS BELONGING TO THEM IS NOT ONLY LIMITED TO THE POLITICAL AND ECONOMIC BEHAVIOR, BUT ALSO TO THE SOCIAL AND CULTURAL BEHAVIOR. THE RESULTS OF THE PRESENT STUDY ALSO INDICATE THAT THE INFLUENCE OF THE INFLUENTIAL GROUPS ON THE POLITICAL BEHAVIOR OF THE INDIVIDUALS BELONGING TO THEM IS NOT ONLY LIMITED TO THE POLITICAL AND ECONOMIC BEHAVIOR, BUT ALSO TO THE SOCIAL AND CULTURAL BEHAVIOR. THE RESULTS OF THE PRESENT STUDY ALSO INDICATE THAT THE INFLUENCE OF THE INFLUENTIAL GROUPS ON THE POLITICAL BEHAVIOR OF THE INDIVIDUALS BELONGING TO THEM IS NOT ONLY LIMITED TO THE POLITICAL AND ECONOMIC BEHAVIOR, BUT ALSO TO THE SOCIAL AND CULTURAL BEHAVIOR.

[illegible]

with accuracy." The defendant's attorney, Jeffrey M. Korman, said his client was "a very intelligent, very capable man" who was "not a person who would be involved in a crime of this nature." Korman said his client was "a very intelligent, very capable man" who was "not a person who would be involved in a crime of this nature." Korman said his client was "a very intelligent, very capable man" who was "not a person who would be involved in a crime of this nature."

[illegible]

UTILITY COMPANIES
are seeking an experienced Field Supervisor for the Dallas area. Must have 10 years experience in the field. Salary \$18,000-\$22,000. Send resume to: Mr. J. R. Smith, P.O. Box 1000, Dallas, TX 75201.

RETAIL STORE
for the Dallas area. Must have 10 years experience in the field. Salary \$18,000-\$22,000. Send resume to: Mr. J. R. Smith, P.O. Box 1000, Dallas, TX 75201.

[illegible]

FORM 10-70 (Rev. 10-1-70)									
FEDERAL BUREAU OF INVESTIGATION									
U. S. DEPARTMENT OF JUSTICE									
REPORT OF INVESTIGATION									
TITLE OF INVESTIGATION									
CHARACTER OF CASE									
SYNOPSIS									
DETAILS									
CONCLUSIONS									
RECOMMENDATIONS									
ADMINISTRATIVE									
1. NAME OF SUBJECT	2. ALIAS	3. DATE OF BIRTH	4. PLACE OF BIRTH	5. RACE	6. SEX	7. HEIGHT	8. WEIGHT	9. EYES	10. HAIR
11. OCCUPATION	12. EDUCATION	13. MARITAL STATUS	14. RELIGION	15. POLITICAL AFFILIATION	16. SOCIAL AFFILIATION	17. EMPLOYMENT HISTORY	18. CRIMINAL RECORD	19. PSYCHOLOGICAL RECORD	20. PHYSICAL RECORD
21. SOURCE OF INFORMATION	22. METHOD OF OBTAINING INFORMATION	23. DATE OF INFORMATION	24. NAME OF AGENT	25. TITLE OF AGENT	26. DIVISION	27. CITY	28. STATE	29. ZIP CODE	30. TELEPHONE

[illegible]

CALL 48 HOURS BEFORE
YOU DRO IN FLORIDA
1-800-432-4777
IT'S THE LAINE
ALABAMA STATE COURT

**WATERSHED 'B' PHASE 2
WATER QUALITY RETROFITS
PORT ST. LUCIE, FLORIDA**

GENERAL NOTES

APPLICATION 070601-4

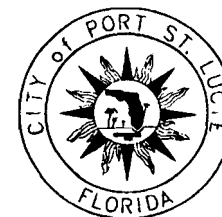
**SCALE
VERIFICATION**

0  1

SOLID BAR IS EQUAL
TO ONE INCH ON
ORIGINAL DRAWING.
ADJUST ALL SCALED
DIMENSIONS
ACCORDINGLY

[illegible]

DATE: 8/20/87
 ORDER BY: TEL
 ORDERED BY: TEL
 CHECKED BY: RPS
 PROJECT NO.: 007.1
 HORIZ. SCALE: 1"=10'
 VERT. SCALE: 1"=10'
 GRID FILE: 000.DOTEN



CONSTRUCTION PLANS FOR WATERSHED 'B' PHASE 1 WATER QUALITY RETROFITS FOR THE CITY OF PORT ST. LUCIE LYING WITHIN THE CITY OF PORT ST. LUCIE ST. LUCIE COUNTY, FLORIDA



LOCATION MAP

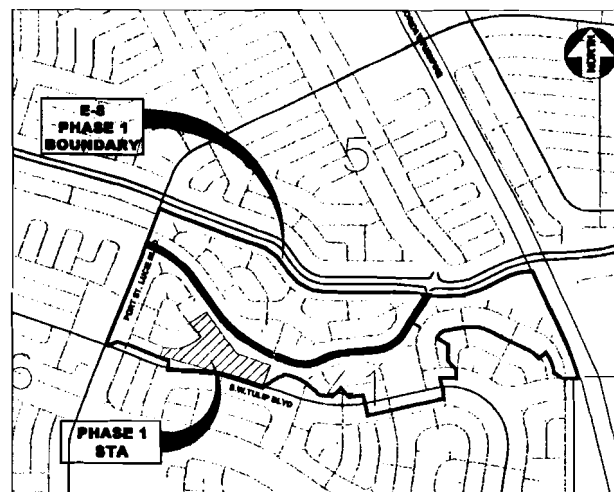
CITY OFFICIALS

PATRICIA CHRISTENSEN
JACK KELLY
MICHELLE L. BERGER
CHRISTOPHER S. COOPER
LINDA BARTZ
DONALD E. COOPER
WALTER ENGLAND, P.E.

MAYOR
VICE MAYOR
COUNCIL MEMBER
COUNCIL MEMBER
CITY MANAGER
CITY ENGINEER

ENGINEER

MR. JOSEPH W. CAPRA, P.E.
CAPTSC ENGINEERING, INC.
301 NW FLAGLER AVENUE
STUART, FLORIDA 34994
PHONE: (772) 882-4344
FAX: (772) 882-4341
EMAIL: CAPTSC1@AOL.COM
P.E. NO. 37638



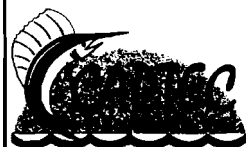
Site Map

N.T.S.

ELEVATIONS AS SHOWN HEREIN REFERENCE NORTH AMERICAN VERTICAL DATUM OF 1988
(N.A.V.D. 88 DATUM), REFERENCING PORT ST. LUCIE BENCHMARK "338" ELEVATION = 10.418 FEET.

SHEET INDEX

SHEET NUMBER	SHEET TITLE/DESCRIPTION
1	COVER SHEET
2	E-S PHASE 1 SPECIFIC PURPOSE SURVEY (1 OF 3)
3	E-S PHASE 1 SPECIFIC PURPOSE SURVEY (2 OF 3)
4	E-S PHASE 1 SPECIFIC PURPOSE SURVEY (3 OF 3)
5	STA IMPROVEMENTS AND SECTIONS
6	GENERAL NOTES



Civil Engineering
Professionals

Civil Engineering Professionals

Engineering Business
No. EB-000007

301 N.W. Flagler Avenue
Stuart, Florida 34994
Phone: (772) 882-4344
Fax: (772) 882-4341
Email: Capra1@AOL.Com

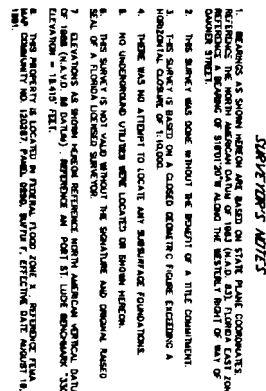
PROJECT #807.1 - WATERSHED 'B' PHASE 1 WATER QUALITY RETROFITS

APPLICATION 070601-4

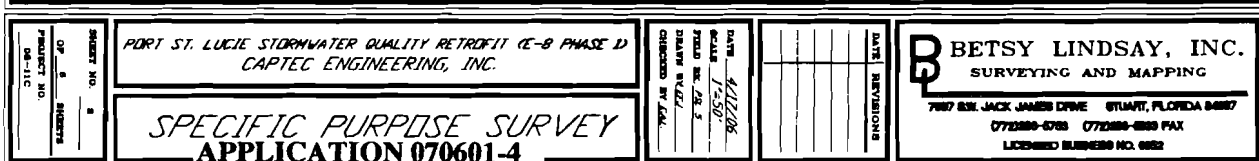
PROJECT #807.1 - WATERSHED 'B' PHASE 1 WATER QUALITY RETROFITS

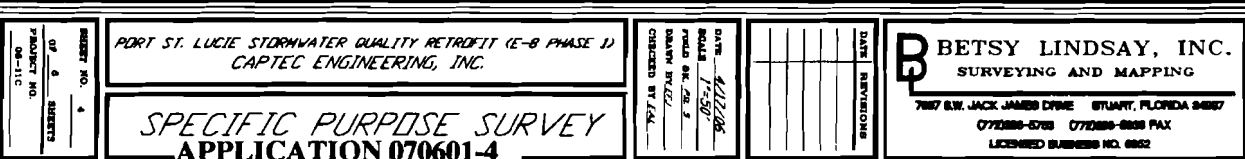
EXHIBIT 2.2A

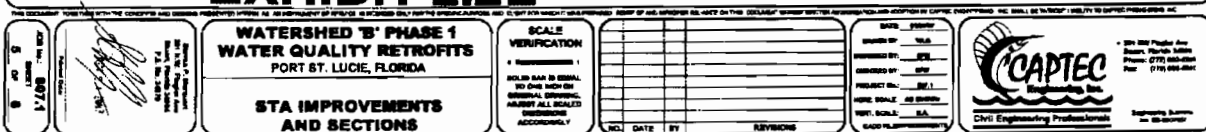
[Signature]
JUN 01 2007



SHEET NO. 3 OF 8 SHEETS	PORT ST. LUCIE STORMWATER QUALITY RETROFIT (E-B PHASE 1) CAPTEC ENGINEERING, INC.	DATE 4/11/06 DRAWN J-SP CHECKED M. J. J. DESIGNED BY LAK	DATE REVISIONS	B BETSY LINDSAY, INC. SURVEYING AND MAPPING 7887 E. JACK JAMES DRIVE STUART, FLORIDA 34987 (772) 888-6788 (772) 888-8888 FAX LICENSED SURVEYOR NO. 0002
SPECIFIC PURPOSE SURVEY APPLICATION 070601.4				







1. ROCK-BALL, COMEST OF QUARTZITE, SLAND, HANG, AND/OR IN ROCK SELLING IN FOLLOWING COUNTRIES:
DANIELT AMERICAN BANK, BOSTON, EST AND ABBOTT, EST:

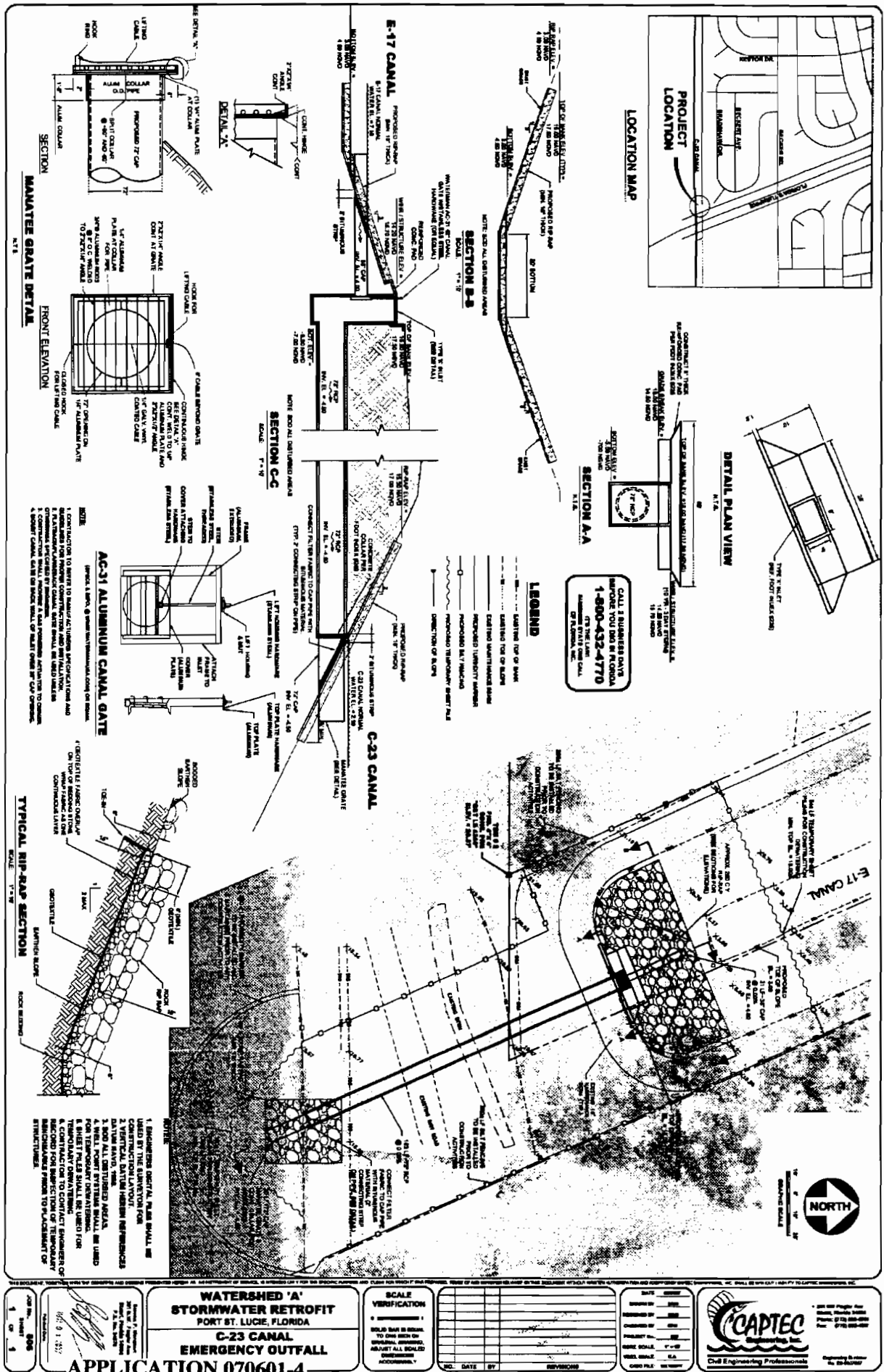
[illegible][illegible]

William P. Montgomery
401 E.W. Taylor Road
Birmingham, Florida 33426
P.O. Box 24879

[Signature]

JUN 6 1987

Printed Name



C-23 CANAL EMERGENCY OUTFALL & RETROFITS Water Quality Monitoring Plan

Water quality monitoring for turbidity around the work site shall be taken a minimum of twice daily while in or over water work (including construction activities and/or dredging related activities) is being conducted in accordance with the standard specifications. Turbidity levels shall be monitored in accordance with the following program:

Turbidity expressed in nephelometric turbidity units (ntu).

Background samples shall be taken 300 feet upstream of any in-water construction or dredging-related activity within adjacent surface waters.

Compliance samples shall also be taken in the C-23 and C-24 Canals 100 feet upstream and 100 feet downstream as well as no more than 100 feet outside of any screened area during in-water construction activities to determine compliance with State water quality standards.

Samples shall be taken twice daily, with at least a four-hour interval, during all in-water work.

Monitoring shall begin on the first day of such activities within or adjacent to surface waters. Monitoring shall cease when all project-related in-water activities are completed. The monitoring data must demonstrate that compliance turbidity samples are less than 29 ntu's above natural background turbidity levels.

All monitoring data shall be maintained on site and be available to District staff during regular business hours. All monitoring data shall be submitted within one (1) week of analysis and the monitoring reports shall contain the following information:

- 1) Permit and application number;
- 2) Date of sampling and analysis;
- 3) A statement describing the collection methods, handling, storage and sample analysis;
- 4) A map indicating the sampling locations; and
- 5) A statement by the individual responsible for implementation of the sampling program concerning the authenticity, precision, limits of detection and accuracy of the data.

Monitoring reports shall also include the following information for each sample that is taken:

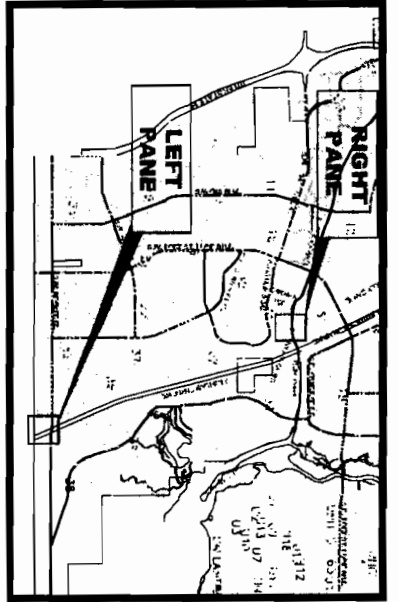
- 1) Time of day samples taken;
- 2) Depth of water body;
- 3) Depth of samples;
- 4) Antecedent weather conditions;
- 5) Wind direction and velocity; and
- 6) Tidal stage and direction of flow.

If water quality monitoring reveals turbidity levels downstream of the site to be more than 29 ntu's above natural background turbidity levels, in-water project activities shall cease and District compliance staff shall be notified immediately. Work shall not resume until District staff are satisfied that adequate corrective measures have been taken and turbidity has returned to acceptable levels.

Monitoring reports shall be submitted to the District Environmental Resource Compliance staff. Failure to submit reports in a timely manner (as indicated above) constitutes grounds for revocation of the permit, enforcement or other action by the District.



100' 0' 100' 200'
GRAPHIC SCALE



Key Map

N.T.S.

SFWMD S-49
STRUCTURE

WATER QUALITY MONITORING SITE
300 FT UPSTREAM / 100' DOWNSTREAM
IN C-24 CANAL

DOUBLE FLOATING
TURBIDITY BARRIER
(TYP)

WQ - 3
C-24 CANAL

WQ - 4

B-1

SW SIMMS
CT.
ANN ARBOR RD.

STEVEN P. MARQUART
P.E. No. 34879

E-8 CANAL

WQ - 5

B-2

C-23 CANAL

WQ - 2

WQ - 1

WATER QUALITY MONITORING SITE
300' UPSTREAM / 100' DOWNSTREAM IN C-23 CANAL

DOUBLE FLOATING
TURBIDITY BARRIER
(TYP)

FLORIDA TURNPIKE

MICA CT

BRADSHAW CIR

**PORT ST. LUCIE C-23 EMERGENCY OUTFALL
AND RETROFITS**
CITY OF PORT ST. LUCIE, FLORIDA

WATER QUALITY MONITORING LOCATIONS

SCALE
VERIFICATION

0 0.5
SOURCING IS FROM AERIAL
PHOTOGRAPHY. ALL
SCALES AND DIMENSIONS
ARE APPROXIMATE.



Civil Engineering Professionals

• Joseph W. Caputo
301 N.W. Eagle Ave
Suwanee, Florida 31824
P.E. No. 37028
Phone: (772) 602-4344
Fax: (772) 602-4341
E-mail: CaputoJ@captec.com

DATE: 06/26/17
DRAWN BY: WLC
CHECKED BY: SIM
PROJECT NO.: 26
HORIZ. SCALE: 1" = 100'
VERT. SCALE: N/A
CADD FILE: WQ MONITORING

Sheet No. 1 of 1

EXHIBIT 3.02

STAFF REPORT DISTRIBUTION LIST

C-23 OUTFALL AND WATERSHED B RETROFITS

Application No: 070601-4

Permit No: 56-00332-S

INTERNAL DISTRIBUTION

- X Hugo A. Carter, P.E. - 4220
- X Ryan Bond - 4250
- X Melinda Parrott - 4250
- X A. Bain - 4250
- X A. Waterhouse - 4220
- X ERC Martin/St. Lucie - 6880
- X J. Golden - 4210
- X Permit File

GOVERNING BOARD MEMBERS

- Mr. Charles J Dauray
- Mr. Eric Buermann
- Mr. Harkley R. Thornton
- Mr. Malcolm S. Wade, Jr.
- Mr. Michael Collins
- Mr. Nicolas Gutierrez, Jr.
- Mr. Patrick Rooney, Jr.
- Ms. Melissa Meeker
- Ms. Shannon A. Estenoz

EXTERNAL DISTRIBUTION

- X Permittee - City Of Port St Lucie
- X Engr Consultant - Captec Engineering Inc

GOVERNMENT AGENCIES

- X City Engineer, City of Port Saint Lucie
- X City of Port St Lucie - Planning Div
- X Dept of Environmental Protection - Port St. Lucie
- X Florida Fish & Wildlife Conservation Commission -
Imperiled Species Mgmt Section
- X St Lucie County - Planning Div
- X St. Lucie County Community Development Director
- X St. Lucie County Engineer - Chris Lestrangle
- X St. Lucie County Environmental Resource Manager
- X U.S. Army Corps of Engineers

OTHER INTERESTED PARTIES

- X Sierra Club - Central Florida Group P.O. Box 941692