



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

December 1, 2006

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

Subject: Application No. 060929-17 – **E-8 Waterway (B-1, B-2, and B-3) Improvements**
St. Lucie County S17/T37S/R40E

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, December 14, 2006**.

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 1st day of December, 2006 in accordance with Section 120.60 (3), Florida Statutes.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert M. Brown".

Robert M. Brown, Director
Environmental Resource Regulation Department

RMB/gh

CERTIFIED #7005 0390 0005 9818 0492
RETURN RECEIPT REQUESTED

GOVERNING BOARD

Kevin McCarty, *Chair*
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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: 14-DEC-06

INDIVIDUAL SURFACE WATER MANAGEMENT STAFF REPORT

Project Name: E-8 Waterway (B-1, B-2, And B-3) Improvements

Permit No.: 56-00332-S

Application No.: 060929-17

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

Location: St Lucie County, S17/T37S/R40E

Permittee : Port St Lucie City Of

Operating Entity : Permittee

Project Area: 2298 acres

Project Land Use: Residential

Drainage Basin: C-24

Receiving Body: C-24 Canal

Special Drainage District: NA

Conservation Easement To District : No

Sovereign Submerged Lands: No

Sub Basin:



Class: CLASS III

PROJECT PURPOSE:

This application is a request for replacement of two control structures (B-1 and B-2) and modification of a third (B-3) located in the E-8 Waterway. Staff recommends approval with conditions.

PROJECT EVALUATION:**PROJECT SITE DESCRIPTION:**

The site is located in Port St. Lucie at the intersection of the C-24 Canal and the E-8 Waterway. The site is bordered by residential development (see Exhibit 1). Structures B-1, B-2, and B-3 currently exist.

There are no wetlands located within or affected by the proposed project.

PROPOSED PROJECT:

Watershed B is located on the west side of the City of Port St. Lucie, bordered on the north by the District's C-24 Canal, I-95 to the west, Gatlin Boulevard to the south and the Florida Turnpike to the east. Runoff in this developed 2,298 acre residential basin is directed to the E-8 Waterway which discharges into the C-24 Canal downstream of the District's Structure (S-49).

The structure connecting the E-8 Waterway to the C-24 canal was originally constructed prior to 1974 and was replaced in 1995 after the original structure failed during a storm event. It is anticipated that the structure will fail again during a significant storm event. A study of the Watershed B drainage basin was done to evaluate the performance of the existing Watershed B drainage system and recommend system improvements. The proposed project will replace the existing structure (B-1) with a new structure. The immediately upstream structure (B-2) will also be replaced and the structure at Oakner Street (B-3) will be modified. The replacement structures have been designed to provide water quality treatment while not increasing the design storm discharge rate.

A by-pass structure will be constructed between the E-8 Waterway and the C-24 Canal which will include an operable gate. An operable gate will also be installed as part of the B-3 structure improvements. The gates will not be used for pre or post storm drawdown but are intended only to allow lowering the water level in the E-8 Waterway for maintenance purposes (Exhibit 2.2). A dewatering permit may be required prior to lowering the water level.

WATER QUANTITY :**Discharge Rate :**

The permittee's engineer has submitted calculations documenting that the design storm discharge rate for the proposed structure is not increased over the previously permitted discharge rate.

Control Elevation :

Basin	Area (Acres)	Ctrl Elev (ft, NGVD)	WSWT Ctrl Elev (ft, NGVD)	Method Of Determination
E-8	2298.00	5.5	5.50	Previously Permitted
B-2	104.60	11.8	11.80	Previously Permitted
B-3	2193.40	13.58	13.58	Previously Permitted

Receiving Body :

Basin	Str.#	Receiving Body
E-8	B-1	C-24
B-2	B-2	E-8
B-3	B-3A	E-8
B-3	B-3B	E-8

Receiving Body :

Basin	Str.#	Receiving Body
B-3	B-3C	E-8
B-3	B-3D	E-8

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

Bleeders:

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Invert Angle	Invert Elev.
B-2	B-2	2	Rectangular Notch	5"	26.4"				11.8
B-3	B-3C	1	Rectangular Notch	24"	15.24"				13.58

Culverts:

Basin	Str#	Count	Type	Width	Length	Dia.
B-2	B-2	2	Reinforced Concrete Pipe		64'	72"
B-3	B-3A	1	Reinforced Concrete Pipe		100'	42"
B-3	B-3B	1	Reinforced Concrete Pipe		100'	42"
B-3	B-3C	1	Reinforced Concrete Pipe		100'	36"
B-3	B-3D	1	Reinforced Concrete Pipe		100'	72"
E-8	B-1	2	Reinforced Concrete Pipe		105'	72"

Inlets:

Basin	Str#	Count	Type	Width	Length	Dia.	Crest Elev.
B-3	B-3C	1	Inlet	53"	71"		14.85
B-3	B-3D	1	Inlet	40"	104"		15

Weirs:

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Elev.
B-2	B-2	2	Sharp Crested	105"	42"			14 (crest)
E-8	B-1	2	Sharp Crested	30"	102"			5.5 (crest)

WATER QUALITY :

No adverse water quality impacts are anticipated as a result of the proposed project. The replacement B-2 structure has been designed to provide water quality treatment (one inch over the basin) for the B-2 drainage basin.

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 (refer to Exhibit No. 2 and Special Conditions). All erosion and turbidity control measures shall remain in place until the completion of onsite construction. Additionally, the applicant will implement a water quality monitoring plan in accordance with Exhibit No. 3 and Special Condition No. 14.

Riprap will be placed on the downstream end of the proposed structures to prevent erosion.

Endangered Species:

No wetland-dependent endangered/threatened species or species of special concern were observed onsite; however, the proposed project is in the known range of the West Indian manatee (*Trichechus manatus*). To reduce the risk of entrapment and drowning of manatees, grating shall be installed over pipes greater than 8 inches, but smaller than 8 feet in diameter in accordance with Exhibit 2 and Special Condition No. 12. The standard manatee construction conditions will also be followed for all in-water

construction (Special Condition No. 11). 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.

Species	Potential Occurrence	Use Types
Manatee	Known Use	Known Use

OPERATING ENTITY:

The City of Port St. Lucie will be the operating entity for the master surface water management system included in Permit No. 56-00332-S, including Watershed B system. Documentation was submitted demonstrating the transfer of ownership of the master system to the City.

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-4361(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 is not required for this project. An application (App. No. 061004-24) has been submitted for short-term dewatering and is being reviewed simultaneously with the environmental resource permit application

This permit modification 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.

Right-Of-Way Permit Status:

A Right-of-Way Permit (App. No. 06-1010-2, Permit No. 12976) has been issued for the project.

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 :

Replacement of the B-1 and B-2 structures and modification of the B-3 structure in the City of Port St. Lucie's E-8 Waterway.

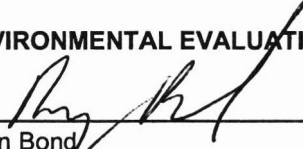
Based on the information provided, District rules have been adhered to.

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

STAFF REVIEW:

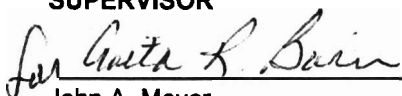
NATURAL RESOURCE MANAGEMENT DIVISION APPROVAL

ENVIRONMENTAL EVALUATION



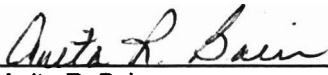
Ryan Bond

SUPERVISOR



John A. Meyer

DIVISION DIRECTOR :

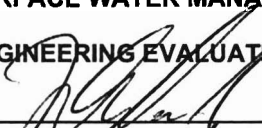


Anita R. Bain

DATE: 11/29/06

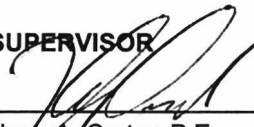
SURFACE WATER MANAGEMENT DIVISION APPROVAL

ENGINEERING EVALUATION



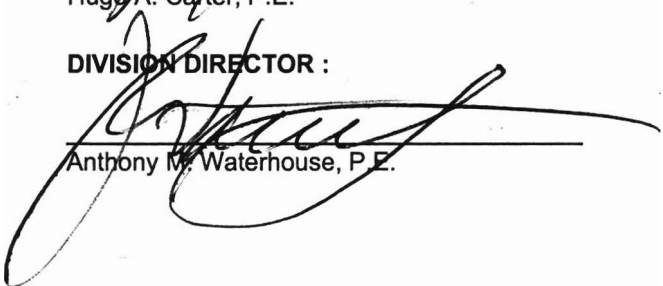
Hugo A. Carter, P.E.

SUPERVISOR



Hugo A. Carter, P.E.

DIVISION DIRECTOR :



Anthony M. Waterhouse, P.E.

DATE: 11/30/06

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 December 14, 2011.
2. Operation of the surface water management system shall be the responsibility of the permittee.
3. Discharge Facilities:

Basin: E-8

2-30" W X 102" H SHARP CRESTED weirs with crest at elev. ' NGVD.
2-72" dia. REINFORCED CONCRETE PIPE culverts each 105' long.

Receiving body : C-24
Control elev : 5.5 feet NGVD.

Basin: B-2

2-105" W X 42" H SHARP CRESTED weirs with crest at elev. 14' NGVD.
2-5" W X 26.4" H RECTANGULAR NOTCHES with invert at elev. 11.8' NGVD.
2-72" dia. REINFORCED CONCRETE PIPE culverts each 64' long.

Receiving body : E-8
Control elev : 11.8 feet NGVD.

Basin: B-3, Structure: B-3A

100 LF of 42" dia. REINFORCED CONCRETE PIPE culvert.

Receiving body : E-8
Control elev : 13.6 feet NGVD.

Basin: B-3, Structure: B-3B

100 LF of 42" dia. REINFORCED CONCRETE PIPE culvert.

Receiving body : E-8
Control elev : 13.6 feet NGVD.

Basin: B-3, Structure: B-3C

1-24" W X 15.24" H RECTANGULAR NOTCH with invert at elev. 13.58' NGVD.
100 LF of 36" dia. REINFORCED CONCRETE PIPE culvert.
1-53" W X 71" L drop inlet with crest at elev. 14.85' NGVD.

Receiving body : E-8
Control elev : 13.6 feet NGVD.

Basin: B-3, Structure: B-3D

100 LF of 72" dia. REINFORCED CONCRETE PIPE culvert.
1-40" W X 104" L drop inlet with crest at elev. 15' NGVD.

Receiving body : E-8
Control elev : 13.6 feet NGVD.

SPECIAL CONDITIONS

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. Facilities other than those stated herein shall not be constructed without an approved modification of this permit.
8. 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.
9. The permittee shall provide routine maintenance of all of the components of the surface water management system in order to remove all trapped sediments/debris. All materials shall be properly disposed of as required by law. Failure to properly maintain the system may result in adverse flooding conditions.
10. 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.
11. 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).

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.

SPECIAL CONDITIONS

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.

12. Manatee exclusion grates 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. Bars or grates no more than 8 inches apart shall be placed on the accessible end(s) to restrict manatee access. The installation of grates applies to any submerged or partially submerged pipes and culverts accessible to manatees during any tidal phase. Permittee shall keep all grates free and clear of debris.
13. 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 adjacent areas.
14. A water quality monitoring program shall be implemented as outlined below:

Turbidity expressed in nephelometric turbidity units (ntu). Background samples shall be taken 100 feet upstream of any construction activity within adjacent surface waters. Samples shall also be taken 100 feet downstream. Samples shall be taken twice daily, with at least a four-hour interval, during all work authorized 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 during 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 on site and be available to District staff during regular business hours. The content of the data 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.

15. Endangered species, threatened species and/or species of special concern have been observed

SPECIAL CONDITIONS

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. All special conditions and exhibits previously stipulated by permit number 56-00332-S remain in effect unless otherwise revised and shall apply to this modification.
17. The operable structure (B-1 and B-3) 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-8 Waterway 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)

E-8 Waterway (B-1, B-2, And B-3) Improvements Location Map

Application 060929-17

Exhibit 1

E-8 WATERWAY/C-24 CANAL OUTFALL IMPROVEMENTS Maintenance Gate

The City of Port St. Lucie will install a 36" diameter by-pass culvert around the B-1 and B-2 structures as the first step in the construction of the E-8 Waterway / C-24 Canal Outfall Improvements. The 36" RCP by-pass will be used for dewatering and maintenance of purposes during construction. The 36" RCP bypass system will include a FDOT Type "G" Inlet that will be fitted with a Waterman A-31 canal gate after construction of the B-1 and B-2 outfall structures is complete. The City will also install a 36" diameter canal gate in the B-3 control structure for maintenance purposes of the E-8 Waterway.

The 36" by-pass and canal gate system will be used for maintenance purposes after all construction is complete. Maintenance activities that the canal gates will be activated include:

1. Repair and replacement of existing culverts that discharge into the E-8 Waterway between Port St. Lucie Boulevard, Oakner Street (the B-3 Structure) and the B-2 Structure;
2. Removal of shoaling and channel bank repairs;
3. Removal of nuisance vegetation; and
4. Control structure repairs.

The maintenance gates are not intended to be used for pre-storm draw down and a SFWMD dewatering permit will be applied for prior to the use of either of the maintenance gates.

End of Section

**App. No. 060929-17
EXHIBIT 2.2**

CONSTRUCTION PLANS FOR E-8 WATERWAY/C-24 CANAL OUTFALL IMPROVEMENTS (B-1 / B-2 / B-3 STRUCTURES)



LOCATION MAP



**LYING WITHIN THE CITY OF PORT ST. LUCIE
ST. LUCIE COUNTY, FLORIDA**

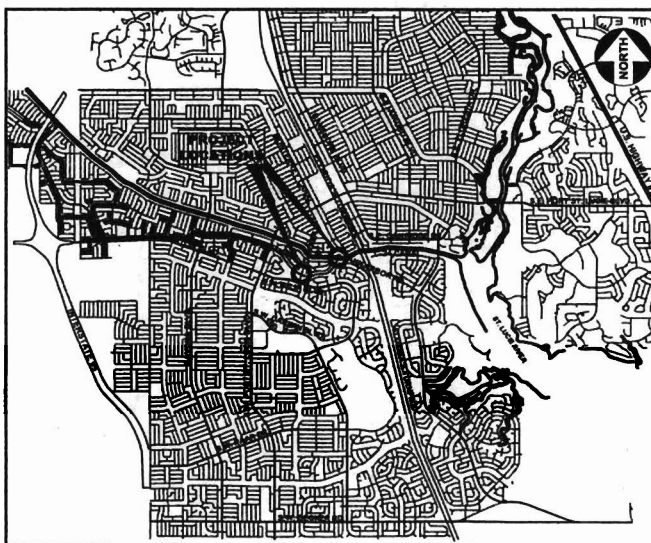
CITY OFFICIALS

ROBERT E. MINSKY
PATRICIA CHRISTENSEN
MICHELLE BERGER
CHRISTOPHER S. COOPER
JACK KELLY
DONALD B. COOPER

MAYOR
VICE MAYOR
COUNCIL MEMBER
COUNCIL MEMBER
COUNCIL MEMBER
CITY MANAGER

ENGINEER

MR. JOSEPH W. CAPRA, P.E.
CAPTEC ENGINEERING, INC.
301 NW FLAGLER AVENUE
STUART, FLORIDA 34994
PHONE: (772)-892-4344
FAX: (772)-892-4341
EMAIL: CAPTEC1@AOL.COM
P.E. NO. 37638



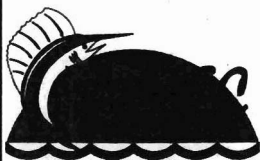
Vicinity Map

N.T.S.

ELEVATIONS AS SHOWN HEREON REFERENCE NGVD 1929 DATUM, REFERENCE AN
PORT ST. LUCIE BENCHMARK "330" ELEVATION = 18.887 FEET AND PORT ST. LUCIE
BENCHMARK "BM 4006" ELEVATION = 23.343 FEET.

SHEET INDEX

SHEET NUMBER	SHEET TITLE/DESCRIPTION
1	COVER SHEET
2	MASTER SITE PLAN
3	DRAINAGE BASIN MAP
4	DEMOLITION PLAN
5	STRUCTURE B-1 IMPROVEMENT PLAN
6	STRUCTURE B-2 IMPROVEMENT PLAN
7	STRUCTURE B-3 IMPROVEMENT PLAN
8-9	SECTIONS & DETAILS
10	GENERAL NOTES



Civil Engineering Professionals

Engineering Business
No. EB-0007657

**Civil Engineering
Professionals**

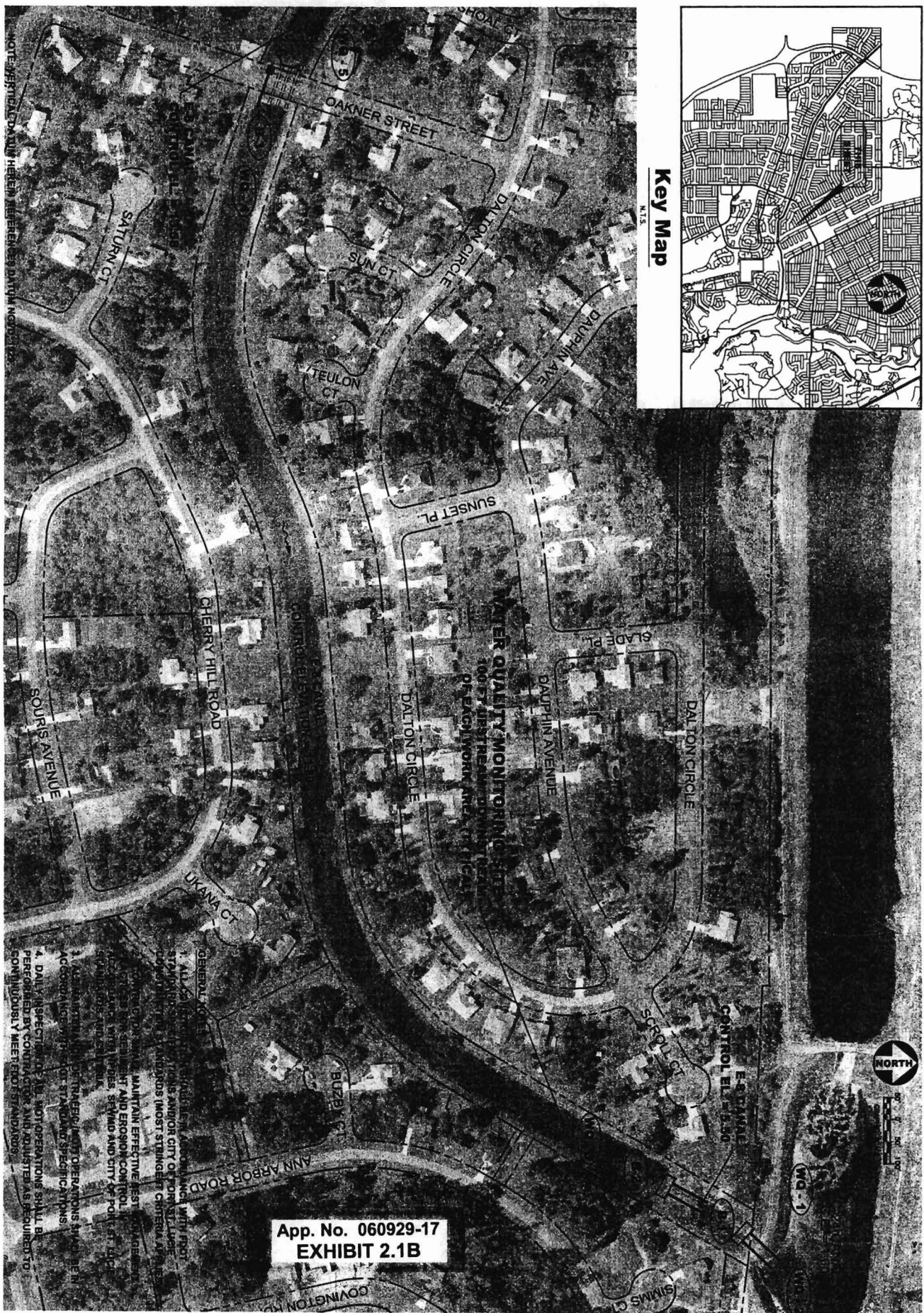
301 N.W. Flagler Avenue
Stuart, Florida 34994
Phone: (772) 892-4344
Fax: (772) 892-4341
Email: Captec1@AOL.Com

Signature
11/27/06

PROJECT #801.6.2 E-8 WATERWAY/C-24 CANAL OUTFALL IMPROVEMENTS

App. No. 060929-17
EXHIBIT 2.1A

PROJECT #801.6.2 E-8 WATERWAY/C-24 CANAL OUTFALL IMPROVEMENTS



App. No. 060929-17
EXHIBIT 2.1B

GENERAL NOTES:
1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PORT ST. LUCIE, FLORIDA, STANDARD SPECIFICATIONS FOR ROAD AND CITY UTILITIES.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PORT ST. LUCIE, FLORIDA, STANDARD SPECIFICATIONS FOR ROAD AND CITY UTILITIES.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF PORT ST. LUCIE, FLORIDA, STANDARD SPECIFICATIONS FOR ROAD AND CITY UTILITIES.
4. DAILY INSPECTION OF ALL NOTIFICATIONS SHALL BE PERFORMED BY CONTRACTOR AND ADJUSTED AS REQUIRED TO CONTINUOUSLY MEET CITY STANDARDS.

**E-8 WATERWAY/C-24 CANAL
OUTFALL IMPROVEMENTS**
CITY OF PORT ST. LUCIE, FLORIDA
MASTER SITE PLAN

SCALE VERIFICATION
1" = 50' (AS SHOWN)
1" = 50' (AS SHOWN)
1" = 50' (AS SHOWN)
1" = 50' (AS SHOWN)
1" = 50' (AS SHOWN)
1" = 50' (AS SHOWN)
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1" = 50' (AS SHOWN)

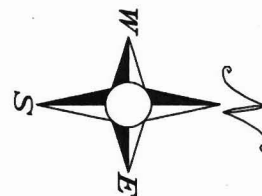
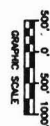
NO.	DATE	BY	REVISIONS

DATE: 1/20/09
DRAWN BY: WLO
DESIGNED BY: WLO
CHECKED BY: BPM
PROJECT NO: 060929-17
HORIZ. SCALE: AS SHOWN
VERT. SCALE: N/A
CADD FILE: 060929-17.DWG

Civil Engineering Professionals, Inc.
301 NW Flagger Ave.
Bart, Florida 34904
Phone: (772) 692-4344
Fax: (772) 692-4341
Engineering Business
No. 06-000767

1/29/06
11/29/06
JOB NO. 060929-17
SHEET 2 OF 10

PORT ST. LUCIE FLORIDA



BASIN MAP

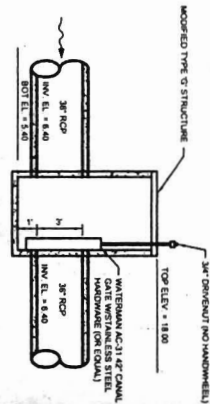
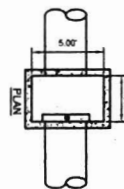
SOLID BAR IS EQUAL TO ONE INCH ON ORIGINAL DRAWING. ADJUST ALL SCALED DIMENSIONS ACCORDINGLY

DATE _____
DRAWN BY _____
DESIGNED BY _____
CHECKED BY _____
PROJECT No: _____
HORZ. SCALE: _____
VERT. SCALE _____
CADD FILE _____

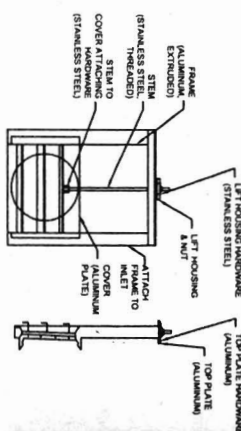


• 301 NW Flagler Ave
Stuart, Florida 34994
Phone: (772) 682-4344
Fax: (772) 682-4341

Engineering Business
No. EB-0007557

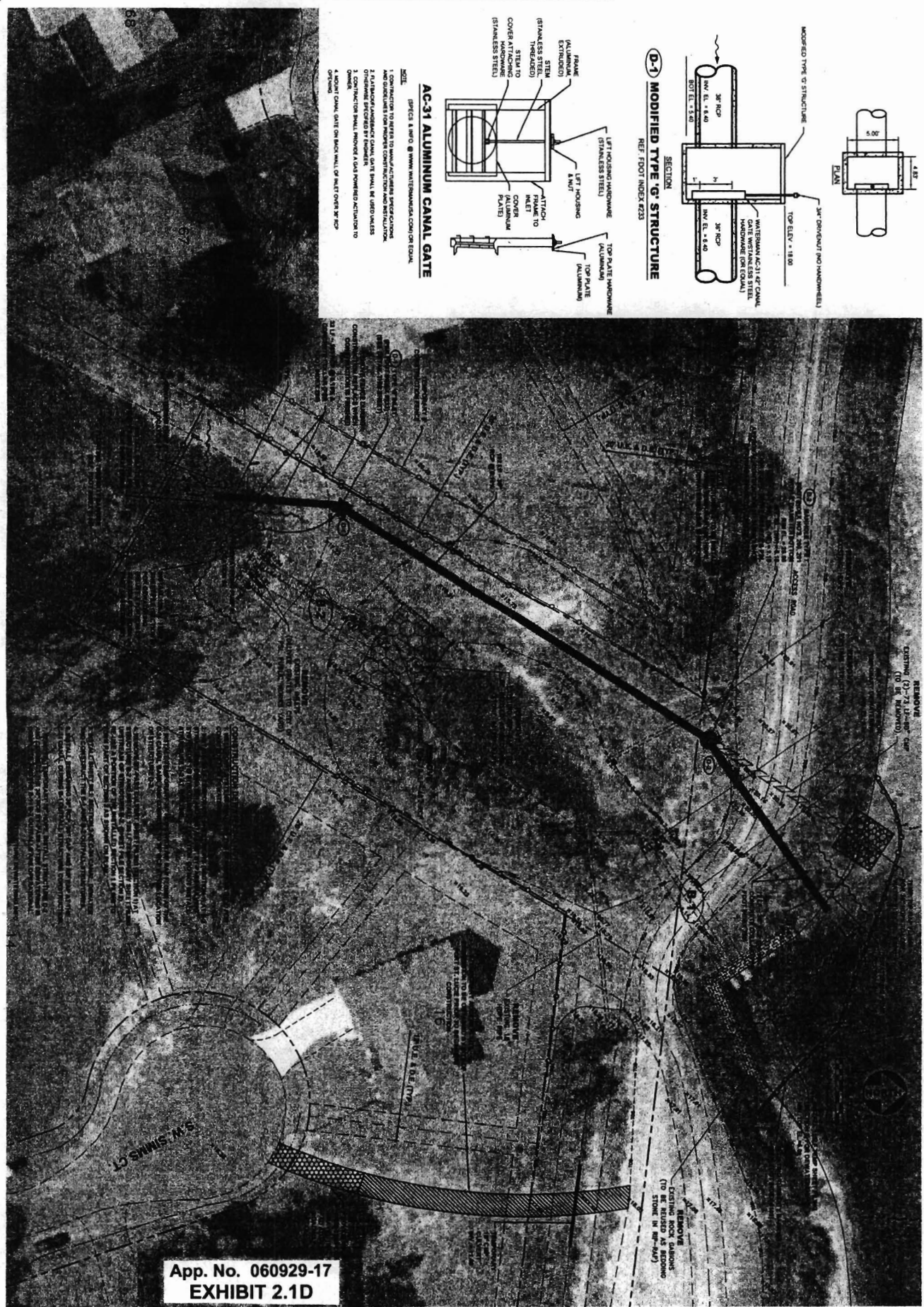


(D-1) MODIFIED TYPE 'G' STRUCTURE
REF. FOOT INDEX #23

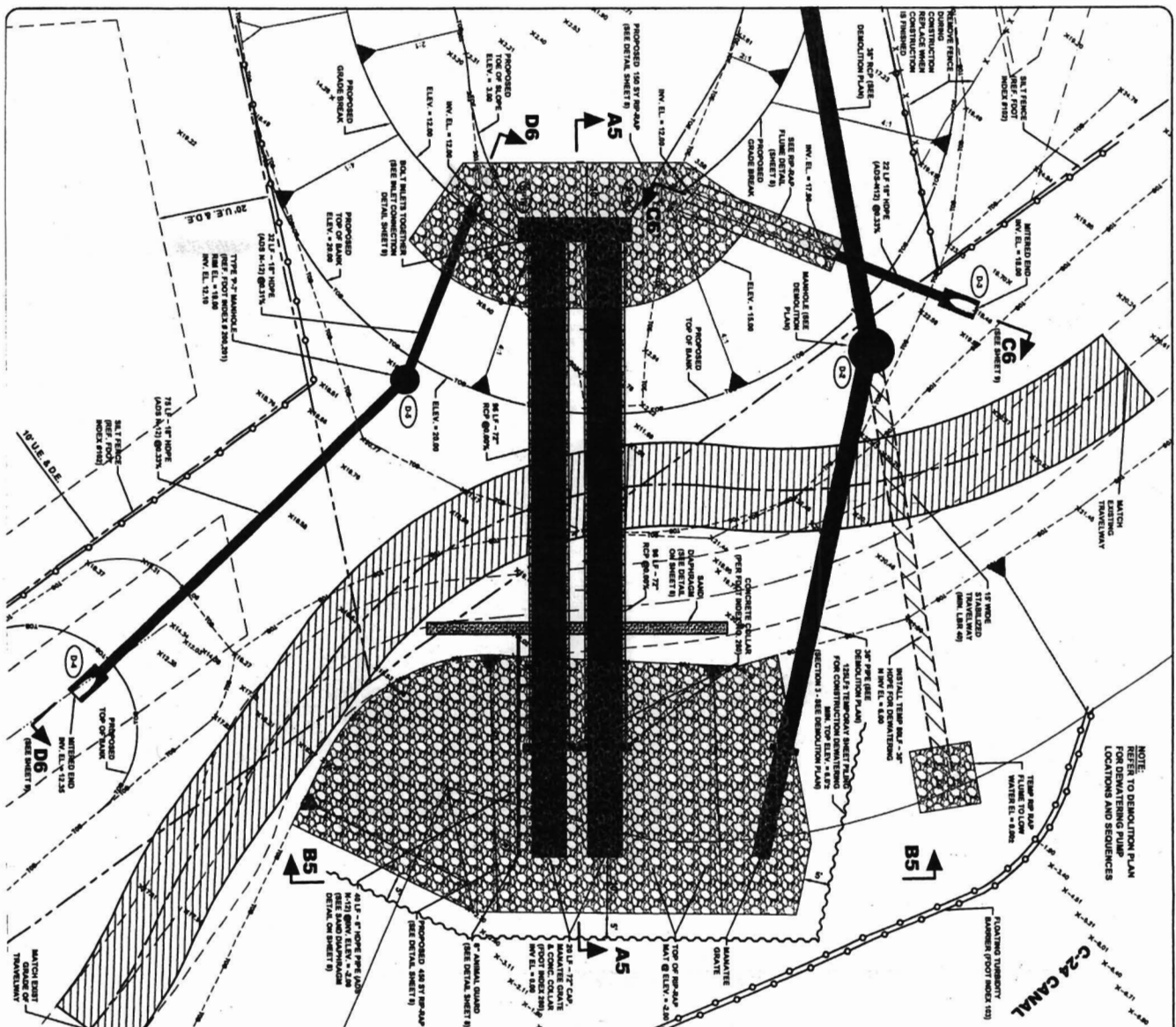


AC-31 ALUMINUM CANAL GATE

- NOTE:**
1. CONTRACTOR TO REFER TO SPECIFICATIONS SPECIFICATIONS AND DIMENSIONS FOR MATERIALS, CONSTRUCTION AND INSTALLATION.
 2. ALUMINUM HARDWARE SHALL BE USED UNLESS OTHERWISE SPECIFIED.
 3. CONTRACTOR SHALL PROVIDE A LIFT OVER 36\"/>



App. No. 060929-17
EXHIBIT 2.1D



NOTE: SEE DETAIL SHEET FOR DEWATERING PUMP LOCATIONS AND SEQUENCES

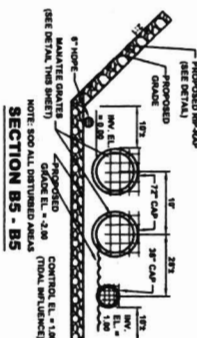
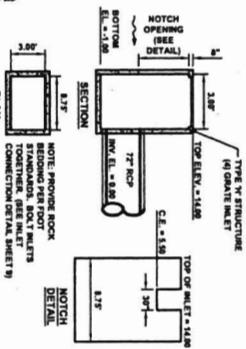


GRAPHIC SCALE
0' 5' 10'

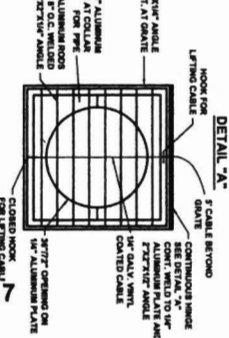
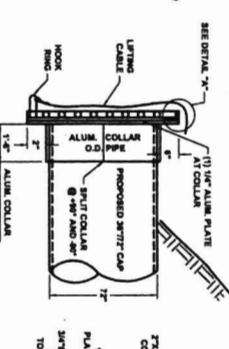
LEGEND

- EXISTING LOT LINE
- EXISTING RIGHT OF WAY
- EXISTING EASEMENT LINE
- EXISTING TRAILWAY
- EXISTING SMALL
- EXISTING TOP OF BANK
- EXISTING ELEVATION
- EXISTING STRUCTURE
- EXISTING BR-40P
- PROPOSED TOP OF BANK
- PROPOSED TOP OF BANK
- PROPOSED MANHOLE
- PROPOSED WETTED AND SECTION
- PROPOSED ALIGNMENT OF
- PROPOSED BR-40P
- SET FENCE

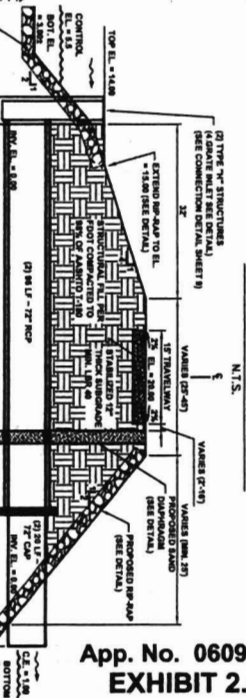
TYPE "H" STRUCTURE (4) GRATE INLET
(TYPICAL OF 2)
REF. FOOT INDEX 2232



MANATEE GRATE DETAIL
N.T.S.



SECTION A5 - A5
CONTROL STRUCTURE B-1 DETAIL
N.T.S.



App. No. 060929-17
EXHIBIT 2.1E

**E-8 WATERWAY/C-24 CANAL
OUTFALL IMPROVEMENTS**
CITY OF PORT ST. LUCIE, FLORIDA
**STRUCTURE B-1
IMPROVEMENT PLAN**

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

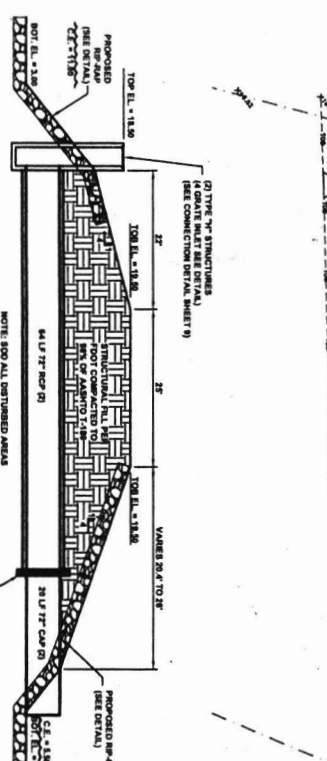
NO.	DATE	BY	REVISIONS

DATE:	11/15/2017
DRAWN BY:	WLS
DESIGNED BY:	WLS
CHECKED BY:	SPW
PROJECT NO.:	0615.2
WORK SCALE:	AS NOTED
DATE FILED:	11/15/2017



301 NW Flagler Ave.
Room 100, Fort Pierce, FL 34946
Phone: (888) 693-4344
Fax: (772) 693-4341
Civil Engineering Professionals
Engineering Number: 18-000757

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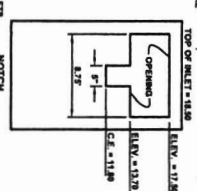


64 U.S. 77, 802 P.2d 1011

ROOF CONTRACTOR TO
REPAIR AND REINFORCE
ROOF OF AREA 1-1-14

SECTION A6-A6

CONTROL STRUCTURE B-2 DETAIL



PLAN
TYPE 'H' STRUCTURE (4) GRATE INLET
(TYPICAL OF 2)



**8 WATERWAY/C-24 CANAL
OUTFALL IMPROVEMENTS
CITY OF PORT ST. LUCIE, FLORIDA**

**STRUCTURE B-2
IMPROVEMENT PLAN**

[illegible]

CAPTEC ENGINEERING, INC. SHALL BE WITHOUT LIABILITY TO CAPTEC ENGINEERING.

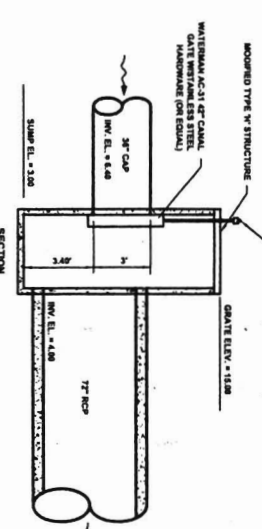


• 301 NW Flamingo Ave
Beverly, Florida 34494
Phone: (772) 892-4344
Fax: (772) 892-4341

Civil Engineering Professionals

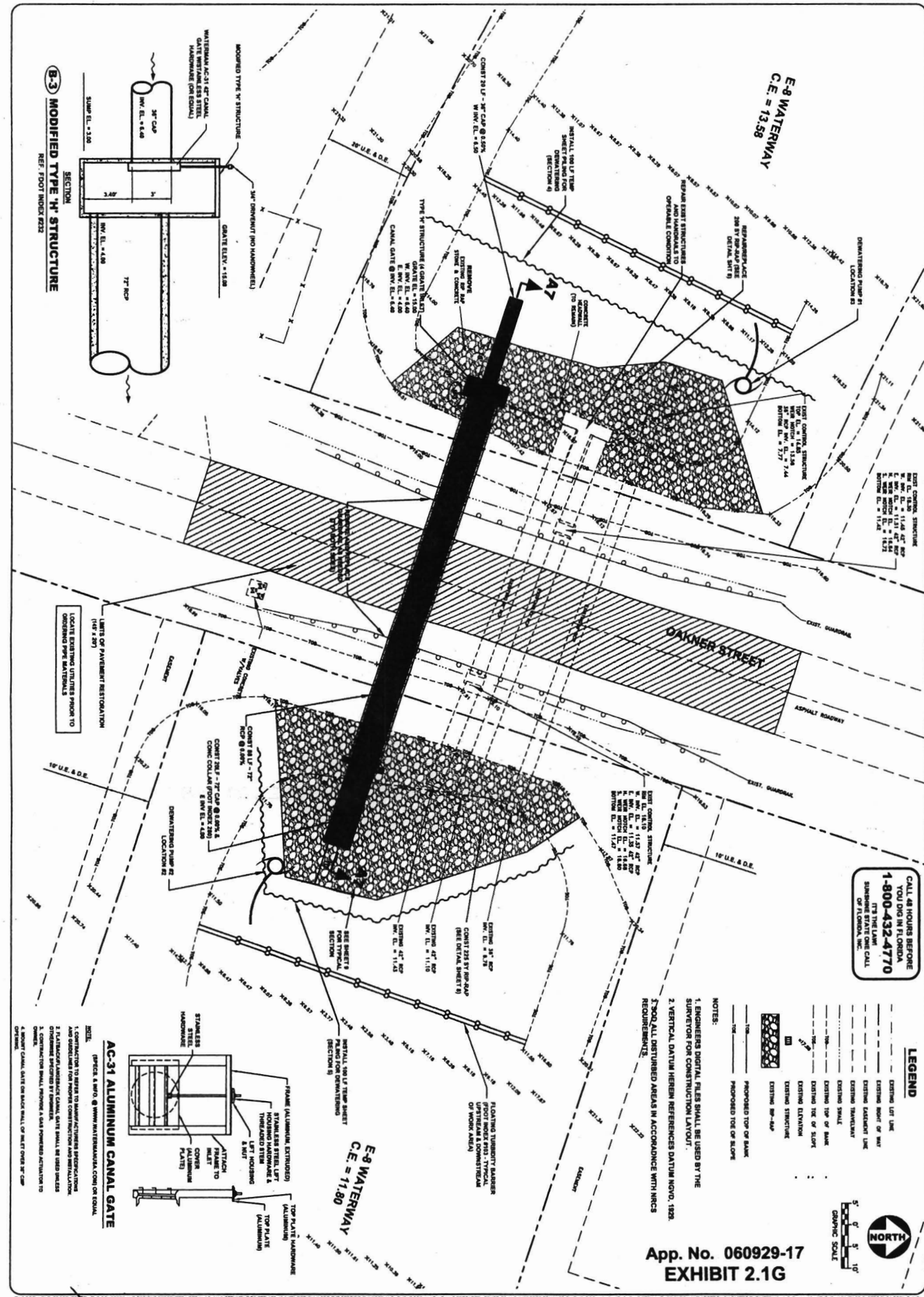
Engineering Business
No. EE-0002637

B-3 MODIFIED TYPE 'H' STRUCTURE
REF: FOOT INDEX #232



LOCATE EXISTING UTILITIES PRIOR TO
BEGINNING TYPE MATERIALS

LIMITS OF PAVEMENT RESTORATION
(REF: 1.207)



E-8 WATERWAY
C.E. = 13.58

E-8 WATERWAY
C.E. = 11.80

CALL 48 HOURS BEFORE
YOU DIG IN FLORIDA
1-800-432-4770
IT'S THE LAW
FLORIDA STATE ONE CALL
OF FLORIDA, INC.

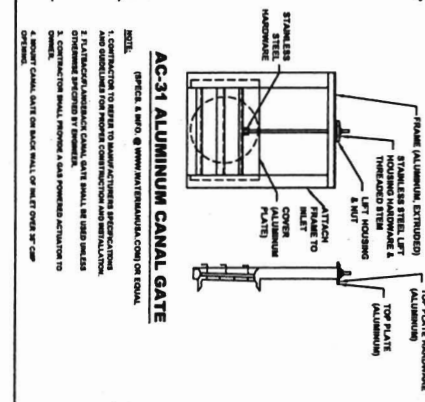
LEGEND

- EXISTING LOT LINE
- EXISTING RIGHT OF WAY
- EXISTING EASEMENT LINE
- EXISTING TRAILWAY
- EXISTING SHALE
- EXISTING TOP OF BANK
- EXISTING TOP OF SLOPE
- EXISTING ELEVATION
- EXISTING STRUCTURE
- EXISTING SP-400
- PROPOSED TOP OF BANK
- PROPOSED TOP OF SLOPE



- NOTES:**
- ENGINEERED DIGITAL FILES SHALL BE USED BY THE SUBMITTOR FOR CONSTRUCTION LAYOUT.
 - VERTICAL DATUM HEREIN REFERENCES DATUM NO. 1002.
 - DO NOT DISTURB AREAS IN ACCORDANCE WITH NCS REQUIREMENTS.

App. No. 060929-17
EXHIBIT 2.1G



AC-31 ALUMINUM CANAL GATE

NOTES:

- CONNECTION TO GATE TO BE MADE BY THE SUBMITTOR AND SHALL BE IN ACCORDANCE WITH THE NCS REQUIREMENTS.
- FLATWORK/LANDSCAPE CANAL GATE SHALL BE USED INSTEAD OF THE GATE SPECIFIED BY THE NCS.
- CONNECTION SHALL BE MADE BY THE SUBMITTOR AND SHALL BE IN ACCORDANCE WITH THE NCS REQUIREMENTS.
- CONNECTION SHALL BE MADE BY THE SUBMITTOR AND SHALL BE IN ACCORDANCE WITH THE NCS REQUIREMENTS.

**E-8 WATERWAY/C-24 CANAL
OUTFALL IMPROVEMENTS**
CITY OF PORT ST. LUCIE, FLORIDA

**STRUCTURE B-3
IMPROVEMENT PLAN**

SCALE VERIFICATION

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

NO.	DATE	BY	REVISIONS

DATE: 11/26/06
DRAWN BY: JLS
CHECKED BY: JLS
PROJECT NO.: 060929-17
SHEET NO.: 001 OF 02
CADD FILE: 061-04-000

301 NW Flagler Ave.
Port St. Lucie, Florida 34956
Phone: (772) 882-4344
Fax: (772) 882-4341

Civil Engineering Professionals
Engineering Division
No. 0007651

JOB NO. 801.0-2
SHEET
8 OF 10

1. Model

- [illegible]

4. PROOF TO AND DURING CON-

- [illegible]

ON ALLOCATION MATTERS
THE DETAILS FOR THE SITE

- NOTE - REINFORCED CONCRETE PIPE, ELECTRICAL
PIPE - HIGH DENSITY POLYETHYLENE
CSP - COMPOUNDED ALUMINUM PIPE
M.E. - METRIC DIM SECTION
FILTER FABRIC
THE CONTRACTOR SHALL SUPPLY ALL STRAIN PIPE JOINT CONSTRUCTION SHALL BE PER FIG. 2.1.1.1. INDEX NO. 280
AND SHALL BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE MANUFACTURER. THE FABRIC SHALL BE
APPLIED TO A MINIMUM OF 12 INCHES OF THE STRAIN PIPE JOINT AND SHALL BE SECURED TO THE STRAIN PIPE JOINT BY
A MINIMUM OF 12 INCHES OF THE STRAIN PIPE JOINT AND SHALL BE SECURED TO THE STRAIN PIPE JOINT BY A MINIMUM OF 12 INCHES OF THE STRAIN PIPE JOINT.

- [illegible]

GROUNDWATER

- CONCLUSION**
- There were no serious deleterious effects to the eye and eye area affected by the self-applied treatment. The treatment was well tolerated and did not cause any adverse effects on the skin. The treatment was well tolerated and did not cause any adverse effects on the skin. The treatment was well tolerated and did not cause any adverse effects on the skin.

SITE PREPARATION AND GRADING

- [illegible]

SOIL EROSION PLANS

- [illegible]

WATER QUALITY NOTES

- [illegible]

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE

- [illegible]

5. CONCLUSION

- [illegible]

TRAFEG

- [illegible]

- UTILITY COMPANIES
OF NORTH KENTUCKY REQUEST CALL NUMBER: 3100-0000

PLATE 10

- LOCAL PUBLIC WORKS DEPARTMENT CONSTRUCTION FIELD OBSERVATIONS**

- **1. OTHERS**
- **PEP LAYING WITHIN PUBLIC RIGHT-OF-WAY.**

1. **RESEARCH** - RESEARCH AND DEVELOPMENT OF NEW PRODUCTS
2. **MARKETING** - MARKETING STRATEGIES
3. **FINANCIAL** - FINANCIAL ANALYSIS
4. **OPERATIONS** - OPERATIONS MANAGEMENT
5. **QUALITY** - QUALITY CONTROL
6. **SALES** - SALES REPRESENTATIVES
7. **TRAINING** - TRAINING PROGRAMS
8. **LEGAL** - LEGAL COUNSEL
9. **COMPUTER** - COMPUTER PROGRAMS
10. **GENERAL** - GENERAL MANAGEMENT
11. **RESEARCH** - RESEARCH AND DEVELOPMENT OF NEW PRODUCTS
12. **MARKETING** - MARKETING STRATEGIES
13. **FINANCIAL** - FINANCIAL ANALYSIS
14. **OPERATIONS** - OPERATIONS MANAGEMENT
15. **QUALITY** - QUALITY CONTROL
16. **SALES** - SALES REPRESENTATIVES
17. **TRAINING** - TRAINING PROGRAMS
18. **LEGAL** - LEGAL COUNSEL
19. **COMPUTER** - COMPUTER PROGRAMS
20. **GENERAL** - GENERAL MANAGEMENT

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1-800-432-4770
IT'S THE LAW!

App. No. 060929-17
EXHIBIT 2.1J

GENERAL NOTES

**E-8 WATERWAY/C-24 CANAL
OUTFALL IMPROVEMENTS**
CITY OF PORT ST. LUCIE, FLORIDA

SCALE

VERIFICATION

0 ————— 1

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

[illegible]

DATE:	11/2/98
DRAWN BY:	WLO
DESIGNED BY:	WLO
CHECKED BY:	SPM
PROJECT No.:	001.6.3
HORIZ. SCALE:	N/A
VERT. SCALE:	N/A
CADD FILE: 4-3-GEN NOTE	



• 301 NW Flaming Ave
Stuart, Florida 34984
Phone: (772) 882-4344
Fax: (772) 882-4341

Engineering Business
No. EB-000767

JOB No.: 801.6.
SHEET
10 of 10

Shirleen P. Marquardt
201 N.W. 75th Avenue
Davie, Florida 33414
P.E. No. 24675

11/27/06

Printed Date

E-8 WATERWAY/C-24 CANAL OUTFALL IMPROVEMENTS

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 100 feet upstream of any in-water construction or dredging-related activity within adjacent surface waters.

Compliance samples shall also be taken in the E-8 Waterway 100 feet upstream and/or downstream as well as no more than 100 feet outside of any screened area during dredging and 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.

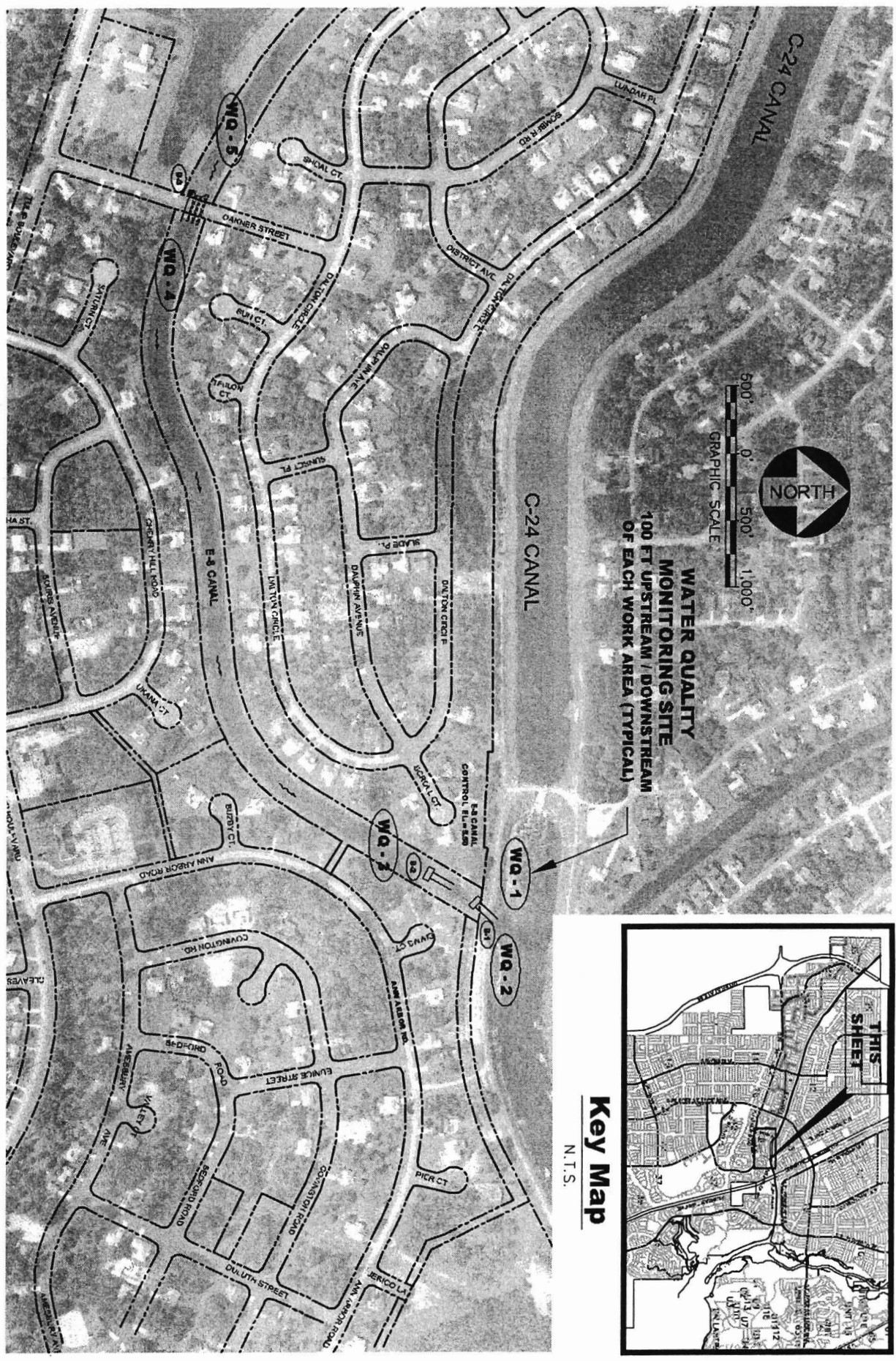
Monitoring reports shall also include the following information for each sample that is taken:

- 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.

EXHIBIT 3.1



Key Map
N.T.S.



Civil Engineering Professionals

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E-74647 E & S-4444
No. 15-000000

DATE:	10/05/06
DRAWN BY:	WLC
DESIGNED BY:	WLC
CHECKED BY:	SPH
PROJECT NO.:	SP-02
WORK SCALE:	1" = 400'
VERT. SCALE:	N/A
CADD FILE:	WA-06-07-06

**PORT ST. LUCIE E-8 WATERWAY / C-24 CANAL
OUTFALL IMPROVEMENTS**

CITY OF PORT ST. LUCIE, FLORIDA

WATER QUALITY MONITORING LOCATIONS

SCALE

VERIFICATION

3" = 35'

SOLID LINE & EQUAL THICK-
AN INCH ON ORIGINAL
DRAWING, ALL OTHER ALL
SCALES DIMENSIONS
AS SHOWN

Sheet No. 1 of 1

STAFF REPORT DISTRIBUTION LIST

E-8 WATERWAY (B-1, B-2, AND B-3) IMPROVEMENTS

Application No: 060929-17

Permit No: 56-00332-S

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- 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

OTHER INTERESTED PARTIES

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