



**SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
 ENVIRONMENTAL RESOURCE PERMIT NO. 11-03184-P  
 DATE ISSUED: NOVEMBER 19, 2012**

**PERMITTEE:** COLLIER COUNTY BOARD OF COUNTY COMMISSIONERS  
 (COLLIER BLVD - GOLDEN GATE MAIN CANAL TO GOLDEN GATE BLVD)  
 2885 S HORSESHOE DRIVE,  
 NAPLES, FL 34104

**PROJECT DESCRIPTION:** CONSTRUCTION AND OPERATION OF A SURFACE WATER MANAGEMENT SYSTEM TO SERVE A 99.01 ACRE ROADWAY PROJECT KNOWN AS COLLIER BLVD - GOLDEN GATE MAIN CANAL TO GOLDEN GATE BLVD WITH DISCHARGE TO THE C.R. 951 CANAL.

**PROJECT LOCATION:** COLLIER COUNTY , SECTION 10,11,13,14,15,22,23,26,27,34,35 TWP 49S RGE  
 SECTION 2,3 TWP 51S RGE 26E

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

This is to notify you of the District's agency action concerning Permit Application No. 070809-12, dated July 25, 2007. This action is taken pursuant to the provisions of Chapter 373, Part IV, Florida Statutes (F.S.), and the Operating Agreement Concerning Regulation Under Part IV, Chapter 373 F.S., between South Florida Water Management District and the Department of Environmental Protection.

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

1. Not receiving a filed request for an administrative hearing pursuant to Section 120.57 and Section 120.569, or request a judicial review pursuant Section 120.68, Florida Statutes.
2. The attached 19 General Conditions.
3. The attached 23 Special Conditions.
4. The attached 3 Exhibits.

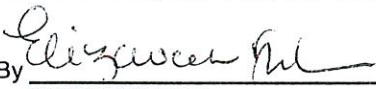
Should you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Should you wish to object to the proposed agency action or file a petition, please provide written objections, petitions and/or waivers to:

Elizabeth Veguilla, Deputy Clerk, MSC2440  
 South Florida Water Management District  
 Post Office Box 24680  
 West Palm Beach, FL 33416-4680

Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights", we will assume that you concur with the District's action.

CERTIFICATION OF SERVICE

I HEREBY CERTIFY that the Staff Report, Conditions and Notice of Rights have been mailed to the Permittee (and the persons listed on the attached staff report distribution list) no later than 5:00 p.m. on this 26th day of November, 2012, in accordance with Section 120.60(3), Florida Statutes, and a copy has been filed and acknowledged with the Deputy District Clerk.

By   
 DEPUTY CLERK  
 SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Attachments

### SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on November 19, 2017.
2. Operation of the surface water management system shall be the responsibility of the permittee.
3. Discharge Facilities:

Basin: North Segment 1, Structure: S-93

1-24" W X 27.6" H RECTANGULAR weir with crest at elev. 12.2' NGVD 29.

1-3" dia. CIRCULAR ORIFICE with invert at elev. 9.6' NGVD 29.

Receiving body : C.R. 951 Canal

Control elev : 9.6 feet NGVD 29.

Basin: North Segment 2, Structure: S-126

1-36" W X 15" H RECTANGULAR weir with crest at elev. 12.2' NGVD 29.

1-3" dia. CIRCULAR ORIFICE with invert at elev. 9.9' NGVD 29.

Receiving body : C.R. 951 Canal

Control elev : 9.9 feet NGVD 29.

Basin: North Segment 3, Structure: S-143

1-12" W X 21.6" H RECTANGULAR weir with crest at elev. 12.65' NGVD 29.

1-3" dia. CIRCULAR ORIFICE with invert at elev. 10.1' NGVD 29.

Receiving body : C.R. 951 Canal

Control elev : 10.1 feet NGVD 29.

Basin: North Segment 4, Structure: S-158

1-14" W X 23.52" H RECTANGULAR weir with crest at elev. 12.59' NGVD 29.

1-3" dia. CIRCULAR ORIFICE with invert at elev. 10.5' NGVD 29.

Receiving body : C.R. 951 Canal

Control elev : 10.5 feet NGVD 29.

Basin: Green Blvd, Structure: S-401

1-49" W X 16.2" H RECTANGULAR weir with crest at elev. 11.65' NGVD 29.

1-3" dia. CIRCULAR ORIFICE with invert at elev. 9.5' NGVD 29.

Receiving body : C.R. 951 Canal

Control elev : 9.5 feet NGVD 29.

Basin: White Blvd, Structure: S-330A

1-49" W X 16.8" H RECTANGULAR weir with crest at elev. 12.5' NGVD 29.

1-3" dia. CIRCULAR ORIFICE with invert at elev. 9.9' NGVD 29.

Receiving body : C.R. 951 Canal

Control elev : 9.9 feet NGVD 29.

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 flooding conditions.
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.
12. The permittee acknowledges that, pursuant to Rule 40E-4.101(2), F.A.C., a notice of Environmental Resource or Surface Water Management Permit may be recorded in the county public records. Pursuant to the specific language of the rule, this notice shall not be considered an encumbrance upon the property.
13. Minimum road crown elevation:
  - Basin: North Segment 1 - 14.24 feet NGVD 29.
  - Basin: North Segment 2 - 13.18 feet NGVD 29.
  - Basin: North Segment 3 - 14.11 feet NGVD 29.
  - Basin: North Segment 4 - 14.20 feet NGVD 29.
  - Basin: Green Blvd - 12.09 feet NGVD 29.
  - Basin: White Blvd - 13.60 feet NGVD 29.
14. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.
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. The wood stork habitat management guidelines (Exhibit 3.3) will be followed during construction.
16. The permittee shall comply with the provisions of the fox squirrel habitat management plan approved for the project site in accordance with Exhibit No. 3.4. Prior to initiating construction activities, the site shall be surveyed for the presence of active Big Cypress fox squirrel nests. A 125 foot radius undisturbed buffer must be maintained around all active nests. Following nesting activities, the nesting tree may be removed following coordination with the Florida Fish and Wildlife Conservation Commission and obtaining all required permits.

Any modifications to this program shall require prior written approval from District staff.

17. Prior to the commencement of construction, the permittee shall conduct a pre-construction meeting with field representatives, contractors and District staff. The purpose of the meeting will be to discuss construction methods and sequencing, including type and location of turbidity and erosion controls to be implemented during construction, mobilization and staging of contractor equipment, phasing of construction, methods of vegetation clearing, construction dewatering if required, wetland/buffer protection methods, and endangered species protection with the permittee and contractors. The permittee shall contact District Environmental Resource Compliance staff from the Lower West Coast Service Center at (239) 338-2929 to schedule the pre-construction meeting.
  18. A mitigation program for Collier Boulevard shall be implemented in accordance with Exhibit No. 3.1-3.2. The permittee shall purchase 1.36 freshwater forested credits from Panther Island Mitigation Bank.
  19. Activities associated with the implementation of the mitigation, monitoring and maintenance plan(s) shall be completed in accordance with the work schedule attached as Exhibit No. 3.2. Any deviation from these time frames will require prior approval from the District's Environmental Resource Compliance staff. Such requests must be made in writing and shall include (1) reason for the change, (2) proposed start/finish and/or completion dates; and (3) progress report on the status of the project development or mitigation effort.
  20. Prior to commencement of construction and in accordance with the work schedule in Exhibit No. 3.2, the permittee shall submit documentation from Panther Island Mitigation Bank that 1.36 freshwater forested credits have been deducted from the official agency ledger.
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21. The District reserves the right to require remedial measures to be taken by the permittee if monitoring or other information demonstrates that adverse impacts to onsite or offsite wetlands, upland conservation areas or buffers, or other surface waters have occurred due to project related activities.
  22. The permittee shall utilize the criteria contained in the Construction Pollution Prevention Plan (Exhibit No. 2.1) and on the applicable approved construction drawings for the duration of the project's construction activities.
  23. The following exhibits for the permit are incorporated by reference herein and are located in the permit file. In addition, these exhibits can be viewed on the District's ePermitting website under this application number.  
  
Exhibit No. 2.0 (pages 13-72 Of 72) Typical Sections and Plan/Profile Sheets  
Exhibit No.3.3 Wood Stork Habitat Management Plan  
Exhibit No. 3.4 Big Cypress Fox Squirrel Management Plan

## GENERAL CONDITIONS

1. All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373, F.S.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. Activities approved by this permit shall be conducted in a manner which does not cause violations of State water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of State water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), incorporated by reference in Rule 40E-4.091, F.A.C. unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
4. The permittee shall notify the District of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.
5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.
6. Within 30 days after completion of construction of the permitted activity, the permittee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.
7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request for conversion of Environmental Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the District in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall initiate transfer of the permit to the approved

responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.
9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the District along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit applications within the South Florida Water Management District, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.
10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.

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11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C..
12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the State, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.
13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No Notice" Rule.
14. The permittee shall hold and save the District harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding, unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.
16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rules 40E-1.6105 and 40E-1.6107, F.A.C.. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.
17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.

18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.
19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

## NOTICE OF RIGHTS

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

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

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

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### **Filing Instructions**

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

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



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

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

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

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

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

### **Mediation**

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

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

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

Last Date For Agency Action: December 30, 2012

**INDIVIDUAL ENVIRONMENTAL RESOURCE PERMIT STAFF REPORT**

**Project Name:** Collier Blvd - Golden Gate Main Canal To Golden Gate Blvd

**Permit No.:** 11-03184-P

**Application No.:** 070809-12      **Associated File:** 120726-7    WU    Concurrent

**Application Type:** Environmental Resource (New Construction/Operation)

**Location:** Collier County, S10,11,13,14,15,22,23,26,27,34,35/T49S/R26E  
S2,3/T51S/R26E

**Permittee :** Collier County Board Of County Commissioners

**Operating Entity :** Collier County Board Of County Commissioners

**Project Area:** 99.01 acres

**FINAL APPROVED BY  
EXECUTIVE DIRECTOR  
NOVEMBER 19, 2012**

**Project Land Use:** Roadway

**Drainage Basin:** WEST COLLIER

**Sub Basin:** 951 CANAL NORTH BASIN

**Receiving Body:** C.R. 951 Canal

**Class:** CLASS III

**Special Drainage District:** NA

<b>Total Acres Wetland Onsite:</b>	1.64	
<b>Total Acres Impacted Onsite :</b>	1.64	
<b>Offsite Mitigation Credits-Mit.Bank:</b>	1.36	Panther Island
<b>Conservation Easement To District :</b>	No	
<b>Sovereign Submerged Lands:</b>	No	

**PROJECT PURPOSE:**

This application is a request for an Environmental Resource Permit to authorize Construction and Operation of a surface water management system to serve a 99.01 acre roadway project known as Collier Blvd - Golden Gate Main Canal to Golden Gate Blvd with discharge to the C.R. 951 Canal.

**PROJECT EVALUATION:****PROJECT SITE DESCRIPTION:**

The site is located in the central region of Collier County along a 4.0-mile section of the north-south corridor between Golden Gate Main Canal and Golden Gate Boulevard. A location map is attached as Exhibit 1.0.

There are no permitted surface water management facilities within the project area. The site contains existing roadway and associated right-of-way, and is bordered by the Collier Boulevard canal, commercial development, golf course, and single family home development. Undeveloped portions of the project area consist of upland pine flatwoods, cabbage palm habitat, and cypress-pine-cabbage palm wetlands. The wetlands are discussed in the wetland section of this staff report. A FLUCCS habitat map is attached as Exhibit 3.0.

**PROPOSED PROJECT:**

The proposed project includes the widening and associated infrastructure improvements of Collier Boulevard from a four lane divided highway to a six lane divided highway from Golden Gate Main Canal to Golden Gate Boulevard. The widening will typically include constructing additional lanes in the existing median and the construction of four foot bike lanes on the outsides of the roadway corridor. Swales and dry detention areas will be constructed adjacent to the roadway and, in the southern segment of the project, the existing canal will be relocated to the east to accommodate the proposed widening. ~~Surface water management areas are located along the project area and adjacent side roads.~~ The surface water management system consists of dry detention ponds for water quality and attenuation. The project is divided into five overall discharge basin areas consisting of eight sub-basins in total.

The South Segment consists of 43.36 acres between Golden Gate Canal and Green Boulevard. Water quality for this basin was provided for via Application No. 040315-10/Permit No. 11-02513-P.

The North Segment consists of 44.39 acres and is broken down into four sub-basins (North Segment 1, 2, 3, and 4). This segment of the project spans from Green Boulevard to Golden Gate Boulevard. The surface water management system for this basin consists of dry detention ponds (Pond\_1, Pond\_2, Pond\_3 and Pond\_4) that provide water quality and attenuation prior to discharge to the adjacent C.R. 951 Canal.

The Green Boulevard basin consists of 2.63 acres and includes the improvements to Green Boulevard as it approaches Collier Boulevard. The surface water management system for this basin consists of a dry detention pond (Green Pond) that provides water quality and attenuation prior to discharge to the C.R. 951 Canal.

The Pine Ridge Road basin consists of 2.23 acres and includes the improvements to Pine Ridge Road at its approach to Collier Boulevard. Water quality and attenuation for this basin is provided within the previously permitted (Application No. 061025-17) development known as the Brooks Village.

The White Boulevard basin consists of 6.36 acres and includes the improvements to White Boulevard at its approach to Collier Boulevard. The surface water management system for this basin consists of a dry detention pond (White Pond) that provides water quality and attenuation prior to discharge to the C.R. 951 Canal.

The construction drawings consisting of the sub-basin maps, typical sections, roadway plans, and stormwater conveyance details are included as Exhibit 2.0.

**LAND USE:**

**Construction Project:**

	This Phase	Total Project	
Dry Detention Areas	2.13	2.13	acres
Impervious	68.56	68.56	acres
Pervious	28.32	28.32	acres
<b>Total:</b>	<b>99.01</b>	<b>99.01</b>	

**WATER QUANTITY :**

**Discharge Rate :**

The project has been designed to provide attenuation under post development conditions. The existing project site discharges directly to the Collier Boulevard / CR 951 Canal, which is operated and maintained by Big Cypress Basin, without water quality treatment or attenuation in the roadway corridor. The proposed project's surface water management system will include dry detention areas within the roadway corridor to provide water quality treatment and attenuation to offset the additional impervious areas associated with the new travel lanes, prior to discharge to the existing canal. Discharge from the Collier Boulevard / CR 951 Canal to the Golden Gate Canal is controlled by Big Cypress Basin Structure CR951\_1. The applicant provided calculations to show that the total post-development peak discharge rate from the roadway corridor to the Collier Boulevard / CR951 Canal during the 25 year - 3 day storm event will be less than the pre-development discharge rate. The proposed widening was evaluated by Big Cypress Basin staff and it was determined that the proposed project would not have an adverse impact on the existing Collier Boulevard / CR 951 Canal.

Discharge Storm Frequency : 25 YEAR-3 DAY

Design Rainfall : 11.14 inches

**Road Design :**

Road Storm Frequency : 25 YEAR-3 DAY

Design Rainfall: 11.14 inches

Basin	Peak Stage ( ft, NGVD 29)	Proposed Min. Road Crown ( ft, NGVD 29)
North Segment 1	14.24	14.24
North Segment 2	13.18	13.18
North Segment 3	14.11	14.11
North Segment 4	14.2	14.2
Green Blvd	12.09	12.09
White Blvd	13.6	13.6

**Control Elevation :**

Basin	Area (Acres)	Ctrl Elev ( ft, NGVD 29)	WSWT Ctrl Elev ( ft, NGVD 29)	Method Of Determination
North Segment 1	21.68	9.6		Wet Season Water Table
North Segment 2	5.15	9.9		Wet Season Water Table
North Segment 3	10.05	10.1		Wet Season Water Table
North Segment 4	7.51	10.5		Wet Season Water Table
Green Blvd	2.63	9.5		Wet Season Water Table
White Blvd	6.36	9.9		Wet Season Water Table

**Receiving Body :**

Basin	Str.#	Receiving Body
North Segment 1	S-93	C.R. 951 Canal
North Segment 2	S-126	C.R. 951 Canal
North Segment 3	S-143	C.R. 951 Canal
North Segment 4	S-158	C.R. 951 Canal
Green Blvd	S-401	C.R. 951 Canal
White Blvd	S-330A	C.R. 951 Canal

**Discharge Structures:** Note: The units for all the elevation values of structures are ( ft, NGVD 29)

**Weirs:**

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Elev.
Green Blvd	S-401	1	Rectangular	49"	16.2"			11.65 (crest)
North Segment 1	S-93	1	Rectangular	24"	27.6"			12.2 (crest)
North Segment 2	S-126	1	Rectangular	36"	15"			12.2 (crest)
North Segment 3	S-143	1	Rectangular	12"	21.6"			12.65 (crest)
North Segment 4	S-158	1	Rectangular	14"	23.52"			12.59 (crest)
White Blvd	S-330A	1	Rectangular	49"	16.8"			12.5 (crest)

**Water Quality Structures:** Note: The units for all the elevation values of structures are ( ft, NGVD 29)

**Bleeders:**

Basin	Str#	Count	Type	Width	Height	Length	Dia.	Invert Angle	Invert Elev.
Green Blvd	S-401	1	Circular Orifice				3"		9.5
North Segment 1	S-93	1	Circular Orifice				3"		9.6
North Segment 2	S-126	1	Circular Orifice				3"		9.9
North Segment 3	S-143	1	Circular Orifice				3"		10.1
North Segment 4	S-158	1	Circular Orifice				3"		10.5
White Blvd	S-330A	1	Circular Orifice				3"		9.9

**WATER QUALITY :**

The proposed surface water management systems for the North segments, Green Boulevard, White Boulevard, and Pine Ridge Road provide a water quality treatment volume of 4.06 acre-feet. This volume exceeds the required 2.14 acre-feet of water quality treatment volume based on 2.5 inches over the additional impervious coverage. A water quality treatment volume of 7.01 acre-feet has been provided for the entire 99.01 acre project. The 7.01 acre-feet of provided water quality includes 2.95 acre-feet provided in Basin 1 of Application No. 040315-10/Permit No. 11-02513-P. The required water quality treatment volume for the project is 3.83 acre-feet based on 2.5 inches times the additional impervious cover. The design of the surface water management system provides an additional fifty percent above the treatment volume required per Section 5.2 of Volume IV - Basis of Review to provide additional assurances that the proposed project will not contribute to impairments of the quality of the downstream receiving waters.

A water quality treatment volume of 2.95 acre-feet was provided for the Southern Segment Basin in Basin 1 of Application No. 040315-10/Permit No. 11-02513-P. The provided volume exceeds the required volume of 1.69 acre-feet based on 2.5 inches time the new impervious area proposed for the southern segment.

The water quality treatment volume is provided in the dry detention ponds located along the project and in Basin 1 of Application No. 040315-10/Permit No. 11-02513-P. In addition, the proposed project includes implementing a Stormwater Pollution Prevention Plan and Erosion Control Plan (Exhibit 2.1) as additional reasonable assurance of improved water quality.

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

#### **WETLANDS:**

There are 1.64 acres of wetlands within the project area consisting of pine-cypress cabbage palm wetlands with varying degrees of exotic vegetation. The wetlands are located on the west side of Collier Boulevard with the exception of Wetland 5 which is located on the north side of White Boulevard. All of the wetlands extend off-site. The Collier Boulevard canal is located on the east side of the roadway.

Native vegetation in Wetland 1 is dominated by cabbage palm, slash pine, myrsine, swamp fern, muscadine grape vine, and poison ivy. Non-native vegetation consists of Brazilian pepper within the canopy and mid-story. Wetland 2 is almost 95% Brazilian pepper with scattered cabbage palm and pond cypress with muscadine grape vine. Wetlands 3, 4, and 5 contain similar native vegetation as Wetland 1. Brazilian pepper in these wetlands consists of approximately 75% of the midstory.

#### **Wetland Impacts:**

The proposed project will directly impact 1.64 acres of wetlands and secondarily impact 0.85 acres of adjacent offsite wetlands. Please see Exhibit 3.0 for the location of the direct and secondary wetland impacts. Secondary impacts are due to a lack of 25' natural buffer. There are no direct impacts to Wetland 2, only secondary impacts.

The proposed project will also impact approximately 5.47 acres of other surface waters consisting of the County Road 951 canal. A portion of the canal which runs parallel to 39th Street will be relocated. No mitigation for impacts to this other surface water is required pursuant to Section 4.2.2.2 of the Basis of Review.

**Mitigation Proposal:**

In order to offset direct impacts to 1.64 acres of wetlands and 0.85 acres of secondary impacts to adjacent off-site wetlands, the applicant is proposing to purchase 1.36 freshwater forested credits from Panther Island Mitigation Bank. A letter of reservation and associated work schedule are attached as Exhibit 3.1 and Exhibit 3.2. A functional analysis to determine the functional loss and offsite mitigation was calculated using the Wetland Rapid Assessment Procedure (WRAP). Please see the permit file for a copy of the functional analysis.

**Wetland Inventory :**

CONSTRUCTION MOD -Collier Boulevard - GG Canal to GG Blvd

Site Id	Site Type	Pre-Development				Post-Development						
		Pre Fluc cs	AA Type	Acreage (Acres)	Current Wo Pres	With Project	Time Lag (Yrs)	Risk Factor	Pres. Adj. Factor	Post Fluc cs	Adj Delta	Functional Gain / Loss
W1s	OFF	624	Secondary	.06							.000	.000
W2	OFF	624	Secondary	.10							.000	.000
W3s	OFF	624	Secondary	.21							.000	.000
W4s	OFF	624	Secondary	.41							.000	.000
W5s	OFF	624	Secondary	.07							.000	.000
OSW	ON	500	Direct	5.47							.000	.000
W1	ON	624	Direct	.11							.000	.000
W3	ON	624	Direct	.34							.000	.000
W4	ON	624	Direct	1.08							.000	.000
W5	ON	624	Direct	.11							.000	.000
<b>Total:</b>				7.96								.00

<u>Fluc cs Code</u>	<u>Description</u>
500	Water
624	Cypress - Pine - Cabbage Palm

MITBANK		PANTHER ISLAND	
Type Of Credits		Number Of Credits	
		<b>Mitigation Bank Cr Used</b>	
Fresh Water Forested		1.36	
<b>Total:</b>		<b>1.36</b>	

**Wildlife Issues:**

The project site does contain habitat for wetland-dependent endangered or threatened wildlife species or species of special concern. Wildlife surveys were conducted in April 2007 and again in April 2012. The

proposed project is within the range of the federally listed wood stork, and the State listed Big Cypress fox squirrel, and Florida black bear. The proposed project is within 18.6 miles of three wood stork colonies. The on-site wetlands provide low quality foraging habitat; however the County Road 951 Canal functions as shallow water feeding habitat. Due to the potential disruption of foraging habitat during the relocation of the canal, the USFWS Habitat Management Guidelines will be used to protect wood storks during construction (Exhibit 3.3).

Due to the potential for nesting fox squirrels, a fox squirrel management plan will be followed during construction (Exhibit 3.4).

Telemetry, nuisance, and road kill data indicates that black bear have come within or very near the proposed project corridor. However, it is unlikely that a black bear will venture close to the project corridor during construction; therefore, no impacts to this species are anticipated during construction activities.

#### Other Wildlife Issues:

The proposed project is within the range of the federally listed eastern indigo snake. The Standard Indigo Snake Protection Measures will be followed during construction.

The original wildlife survey observed one abandoned gopher tortoise burrow approximately 15-ft east of the existing right-of-way. A gopher tortoise survey will be conducted prior to construction and a relocation permit from Florida Fish and Wildlife Conservation Commission will be obtained if necessary.

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
Big Cypress Fox Squirrel	Known Range	Nesting
Eastern Indigo Snake	Known Range	Foraging
Gopher Tortoises	Observed Sign	Burrows
Hérons	Observed	Foraging
Wood Stork	Known Range	Foraging

#### **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 is not necessary for this project.

The applicant has indicated that dewatering is required for construction of this project. Water Use application No. 120726-7 for the northern segment of the roadway (Green Blvd. to Golden Gate Blvd.) is being processed concurrently.

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

**CERP:**

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

**Potable Water Supplier:**

Utilities are not required.

**Waste Water System/Supplier:**

Utilities are not required.

**Right-Of-Way Permit Status:**

A Right-of-Way Permit for activities within the easements of the CR 951 Canal is being processed concurrently.

**DRI Status:**

This project is not a DRI.

**Historical/Archeological Resources:**

The District has received correspondence from the Florida Department of State, Division of Historical Resources indicating that there is some potential for undiscovered archeological site to occur. Please refer to Special Condition No. 14 regarding fortuitous finds or unexpected discoveries during ground disturbing activities on the project site. This permit does not release the permittee from compliance with any other agencies' requirements in the event that historical and/or archaeological resources are found on the site.

**DEO/CZM Consistency Review:**

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

**Third Party Interest:**

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

**Enforcement:**

There has been no enforcement activity associated with this application.

**STAFF RECOMMENDATION TO EXECUTIVE DIRECTOR:**

The Staff recommends that the following be issued :

Construction and Operation of a surface water management system to serve a 99.01 acre roadway project known as Collier Blvd - Golden Gate Main Canal to Golden Gate Blvd with discharge to the C.R. 951 Canal.

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

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

**STAFF REVIEW:**

**NATURAL RESOURCE MANAGEMENT APPROVAL**

**ENVIRONMENTAL EVALUATION**

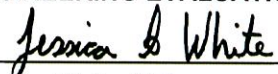
  
Karyn Allman

**SUPERVISOR**

  
Laura Layman

**SURFACE WATER MANAGEMENT APPROVAL**

**ENGINEERING EVALUATION**

  
Jessica White, P.E.

**SUPERVISOR**

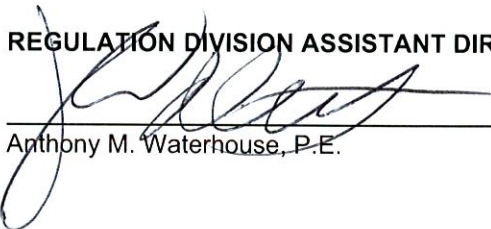
 for  
Daniel F. Waters, P.E.

**ENVIRONMENTAL RESOURCE PERMITTING BUREAU CHIEF :**

  
Anita R. Bain

DATE: 11/19/12

**REGULATION DIVISION ASSISTANT DIRECTOR :**

  
Anthony M. Waterhouse, P.E.

DATE: 11/21/12

## GENERAL CONDITIONS

1. All activities authorized by this permit shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit and Part IV, Chapter 373, F.S.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by District staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. Activities approved by this permit shall be conducted in a manner which does not cause violations of State water quality standards. The permittee shall implement best management practices for erosion and pollution control to prevent violation of State water quality standards. Temporary erosion control shall be implemented prior to and during construction, and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. All practices shall be in accordance with the guidelines and specifications described in Chapter 6 of the Florida Land Development Manual; A Guide to Sound Land and Water Management (Department of Environmental Regulation, 1988), incorporated by reference in Rule 40E-4.091, F.A.C. unless a project-specific erosion and sediment control plan is approved as part of the permit. Thereafter the permittee shall be responsible for the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.
4. The permittee shall notify the District of the anticipated construction start date within 30 days of the date that this permit is issued. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the District an Environmental Resource Permit Construction Commencement Notice Form Number 0960 indicating the actual start date and the expected construction completion date.
5. When the duration of construction will exceed one year, the permittee shall submit construction status reports to the District on an annual basis utilizing an annual status report form. Status report forms shall be submitted the following June of each year.
6. Within 30 days after completion of construction of the permitted activity, the permittee shall submit a written statement of completion and certification by a professional engineer or other individual authorized by law, utilizing the supplied Environmental Resource/Surface Water Management Permit Construction Completion/Certification Form Number 0881A, or Environmental Resource/Surface Water Management Permit Construction Completion Certification - For Projects Permitted prior to October 3, 1995 Form No. 0881B, incorporated by reference in Rule 40E-1.659, F.A.C. The statement of completion and certification shall be based on onsite observation of construction or review of as-built drawings for the purpose of determining if the work was completed in compliance with permitted plans and specifications. This submittal shall serve to notify the District that the system is ready for inspection. Additionally, if deviation from the approved drawings are discovered during the certification process, the certification must be accompanied by a copy of the approved permit drawings with deviations noted. Both the original and revised specifications must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. All surveyed dimensions and elevations shall be certified by a registered surveyor.
7. The operation phase of this permit shall not become effective: until the permittee has complied with the requirements of condition (6) above, and submitted a request for conversion of Environmental

## GENERAL CONDITIONS

Resource Permit from Construction Phase to Operation Phase, Form No. 0920; the District determines the system to be in compliance with the permitted plans and specifications; and the entity approved by the District in accordance with Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit Applications within the South Florida Water Management District, accepts responsibility for operation and maintenance of the system. The permit shall not be transferred to such approved operation and maintenance entity until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the District, the permittee shall initiate transfer of the permit to the approved responsible operating entity if different from the permittee. Until the permit is transferred pursuant to Section 40E-1.6107, F.A.C., the permittee shall be liable for compliance with the terms of the permit.

8. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the initiation of the permitted use of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of the phase or portion of the system to a local government or other responsible entity.
9. For those systems that will be operated or maintained by an entity that will require an easement or deed restriction in order to enable that entity to operate or maintain the system in conformance with this permit, such easement or deed restriction must be recorded in the public records and submitted to the District along with any other final operation and maintenance documents required by Sections 9.0 and 10.0 of the Basis of Review for Environmental Resource Permit applications within the South Florida Water Management District, prior to lot or units sales or prior to the completion of the system, whichever comes first. Other documents concerning the establishment and authority of the operating entity must be filed with the Secretary of State, county or municipal entities. Final operation and maintenance documents must be received by the District when maintenance and operation of the system is accepted by the local government entity. Failure to submit the appropriate final documents will result in the permittee remaining liable for carrying out maintenance and operation of the permitted system and any other permit conditions.
10. Should any other regulatory agency require changes to the permitted system, the permittee shall notify the District in writing of the changes prior to implementation so that a determination can be made whether a permit modification is required.
11. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations prior to the start of any activity approved by this permit. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40E-4 or Chapter 40E-40, F.A.C..
12. The permittee is hereby advised that Section 253.77, F.S. states that a person may not commence any excavation, construction, or other activity involving the use of sovereign or other lands of the State, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.
13. The permittee must obtain a Water Use permit prior to construction dewatering, unless the work qualifies for a general permit pursuant to Subsection 40E-20.302(3), F.A.C., also known as the "No

## GENERAL CONDITIONS

Notice" Rule.

14. 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, alteration, operation, maintenance, removal, abandonment or use of any system authorized by the permit.
15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding, unless a specific condition of this permit or a formal determination under Section 373.421(2), F.S., provides otherwise.
16. The permittee shall notify the District in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of a permitted system or the real property on which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of Rules 40E-1.6105 and 40E-1.6107, F.A.C.. The permittee transferring the permit shall remain liable for corrective actions that may be required as a result of any violations prior to the sale, conveyance or other transfer of the system.
17. Upon reasonable notice to the permittee, District authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with the plans and specifications approved by the permit.
18. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the appropriate District service center.
19. The permittee shall immediately notify the District in writing of any previously submitted information that is later discovered to be inaccurate.

### SPECIAL CONDITIONS

1. The construction phase of this permit shall expire on November 19, 2017.
2. Operation of the surface water management system shall be the responsibility of the permittee.
3. Discharge Facilities:

Basin: North Segment 1, Structure: S-93

1-24" W X 27.6" H RECTANGULAR weir with crest at elev. 12.2' NGVD 29.

1-3" dia. CIRCULAR ORIFICE with invert at elev. 9.6' NGVD 29.

Receiving body : C.R. 951 Canal

Control elev : 9.6 feet NGVD 29.

Basin: North Segment 2, Structure: S-126

1-36" W X 15" H RECTANGULAR weir with crest at elev. 12.2' NGVD 29.

1-3" dia. CIRCULAR ORIFICE with invert at elev. 9.9' NGVD 29.

Receiving body : C.R. 951 Canal

Control elev : 9.9 feet NGVD 29.

Basin: North Segment 3, Structure: S-143

1-12" W X 21.6" H RECTANGULAR weir with crest at elev. 12.65' NGVD 29.

1-3" dia. CIRCULAR ORIFICE with invert at elev. 10.1' NGVD 29.

Receiving body : C.R. 951 Canal

Control elev : 10.1 feet NGVD 29.

Basin: North Segment 4, Structure: S-158

1-14" W X 23.52" H RECTANGULAR weir with crest at elev. 12.59' NGVD 29.

1-3" dia. CIRCULAR ORIFICE with invert at elev. 10.5' NGVD 29.

Receiving body : C.R. 951 Canal

Control elev : 10.5 feet NGVD 29.

Basin: Green Blvd, Structure: S-401

1-49" W X 16.2" H RECTANGULAR weir with crest at elev. 11.65' NGVD 29.

1-3" dia. CIRCULAR ORIFICE with invert at elev. 9.5' NGVD 29.

Receiving body : C.R. 951 Canal

Control elev : 9.5 feet NGVD 29.

Basin: White Blvd, Structure: S-330A

1-49" W X 16.8" H RECTANGULAR weir with crest at elev. 12.5' NGVD 29.

1-3" dia. CIRCULAR ORIFICE with invert at elev. 9.9' NGVD 29.

Receiving body : C.R. 951 Canal

Control elev : 9.9 feet NGVD 29.

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

## SPECIAL CONDITIONS

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 flooding conditions.
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.
12. The permittee acknowledges that, pursuant to Rule 40E-4.101(2), F.A.C., a notice of Environmental Resource or Surface Water Management Permit may be recorded in the county public records. Pursuant to the specific language of the rule, this notice shall not be considered an encumbrance upon the property.
13. Minimum road crown elevation:
  - Basin: North Segment 1 - 14.24 feet NGVD 29.
  - Basin: North Segment 2 - 13.18 feet NGVD 29.
  - Basin: North Segment 3 - 14.11 feet NGVD 29.
  - Basin: North Segment 4 - 14.20 feet NGVD 29.
  - Basin: Green Blvd - 12.09 feet NGVD 29.
  - Basin: White Blvd - 13.60 feet NGVD 29.
14. If prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures, or early colonial or American settlement are encountered at any time within the project site area, the permitted project should cease all activities involving subsurface disturbance in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at (850) 245-6333 or (800) 847-7278, as well as the appropriate permitting agency office. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources. In the event that unmarked human remains are encountered during permitted activities, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes.
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. The wood stork habitat management guidelines (Exhibit 3.3) will be followed during construction.
16. The permittee shall comply with the provisions of the fox squirrel habitat management plan approved for the project site in accordance with Exhibit No. 3.4. Prior to initiating construction activities, the site



## SPECIAL CONDITIONS

shall be surveyed for the presence of active Big Cypress fox squirrel nests. A 125 foot radius undisturbed buffer must be maintained around all active nests. Following nesting activities, the nesting tree may be removed following coordination with the Florida Fish and Wildlife Conservation Commission and obtaining all required permits.

Any modifications to this program shall require prior written approval from District staff.

17. Prior to the commencement of construction, the permittee shall conduct a pre-construction meeting with field representatives, contractors and District staff. The purpose of the meeting will be to discuss construction methods and sequencing, including type and location of turbidity and erosion controls to be implemented during construction, mobilization and staging of contractor equipment, phasing of construction, methods of vegetation clearing, construction dewatering if required, wetland/buffer protection methods, and endangered species protection with the permittee and contractors. The permittee shall contact District Environmental Resource Compliance staff from the Lower West Coast Service Center at (239) 338-2929 to schedule the pre-construction meeting.
18. A mitigation program for Collier Boulevard shall be implemented in accordance with Exhibit No. 3.1-3.2. The permittee shall purchase 1.36 freshwater forested credits from Panther Island Mitigation Bank.
19. Activities associated with the implementation of the mitigation, monitoring and maintenance plan(s) shall be completed in accordance with the work schedule attached as Exhibit No. 3.2. Any deviation from these time frames will require prior approval from the District's Environmental Resource Compliance staff. Such requests must be made in writing and shall include (1) reason for the change, (2) proposed start/finish and/or completion dates; and (3) progress report on the status of the project development or mitigation effort.
20. Prior to commencement of construction and in accordance with the work schedule in Exhibit No. 3.2, the permittee shall submit documentation from Panther Island Mitigation Bank that 1.36 freshwater forested credits have been deducted from the official agency ledger.
21. The District reserves the right to require remedial measures to be taken by the permittee if monitoring or other information demonstrates that adverse impacts to onsite or offsite wetlands, upland conservation areas or buffers, or other surface waters have occurred due to project related activities.
22. The permittee shall utilize the criteria contained in the Construction Pollution Prevention Plan (Exhibit No. 2.1) and on the applicable approved construction drawings for the duration of the project's construction activities.
23. The following exhibits for the permit are incorporated by reference herein and are located in the permit file. In addition, these exhibits can be viewed on the District's ePermitting website under this application number.

Exhibit No. 2.0 (pages 13-72 of 72) Typical Sections and Plan/Profile Sheets

Exhibit No.3.3 Wood Stork Habitat Management Plan

Exhibit No. 3.4 Big Cypress Fox Squirrel Management Plan

**Application No. 070809-12**  
**Permit No. 11-03184-P**  
**Collier Boulevard – Golden Gate Main Canal  
to Golden Gate Boulevard**

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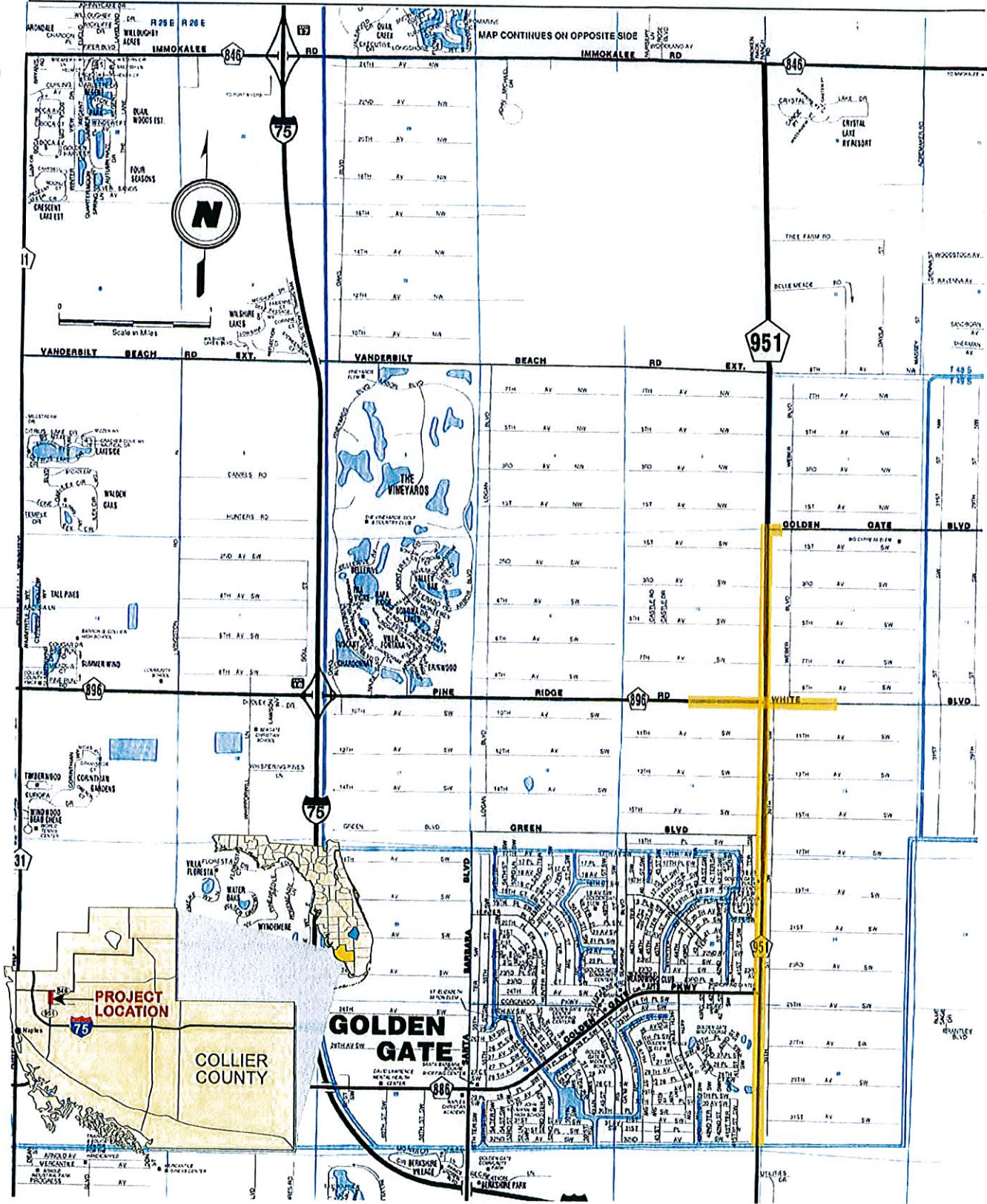
3.0 FLUCCS Habitat Map and Wetland Impact Map

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PROJECT LOCATION

COLLIER COUNTY

GOLDEN GATE

Project Limits



Location Map  
 Collier Boulevard (CR 951)  
 Main Golden Gate Canal to Golden Gate Boulevard

CH2MHILL

- COMPONENTS OF CONTRACT PLANS SET
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**ERP PLAN SET**  
NOVEMBER, 2012

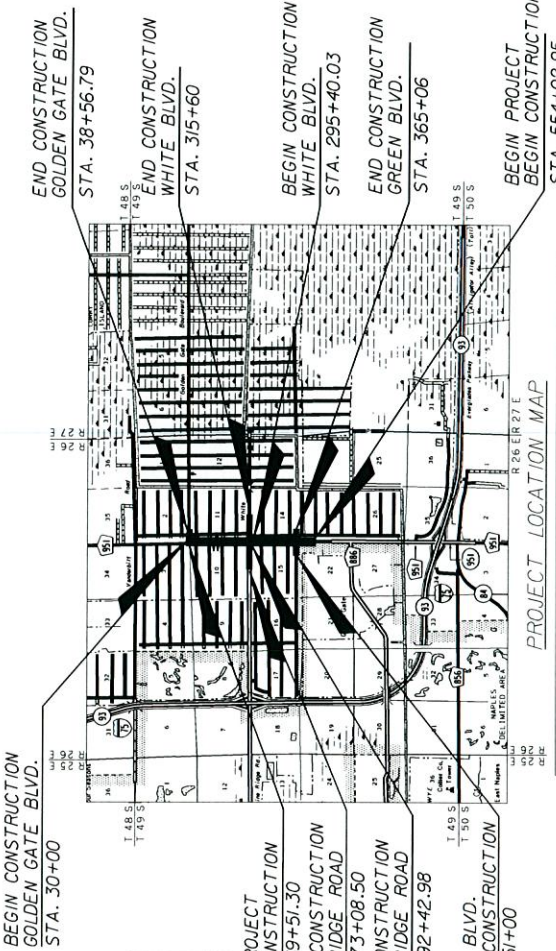
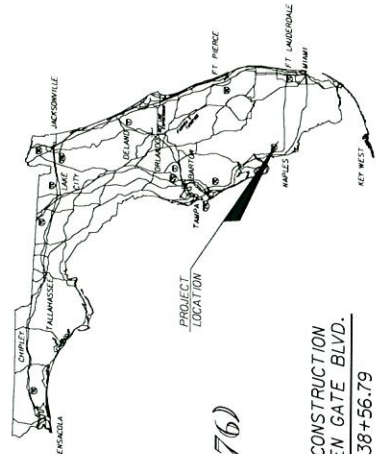
NOT FOR CONSTRUCTION



GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
CONSTRUCTION SPECIFICATIONS FOR ROADS AND  
BRIDGE CONSTRUCTION DATED 2007,  
AS AMENDED BY CONTRACT DOCUMENTS,  
FOR INTERIM STANDARDS SEE:  
<http://www.dot.state.fl.us/roads/yr14/2008intstds.htm>

**TRANSPORTATION ENGINEERING  
AND CONSTRUCTION MANAGEMENT DEPARTMENT**  
PLANS OF PROPOSED

**COLLIER BOULEVARD (CR-951)  
FROM GREEN BOULEVARD (CR-876)  
TO GOLDEN GATE BOULEVARD (CR-876)**  
COLLIER COUNTY PROJECT NO. 68056



PROJECT LOCATION MAP

ROADWAY	LINEAR FEET	MILES
ROADWAY - COLLIER BLVD.	11,548	2.187
ROADWAY - GREEN BLVD.	1271	0.240
ROADWAY - PINE RIDGE/WHITE BLVD.	4,252	0.805
ROADWAY - GOLDEN GATE BLVD.	857	0.163
<b>TOTAL LENGTH OF PROJECT</b>	<b>17,928</b>	<b>3.395</b>
EXCEPTION	X	X
GROSS LENGTH OF PROJECT	X	X

PROJECT LENGTH IS BASED ON E OF CONSTRUCTION  
COLLIER COUNTY PROJECT MANAGER: MARLENE MESSAM, P.E.

ROADWAY SURV DRAWINGS  
TO BE SUBMITTED TO:  
CH2M HILL  
5801 Pelican Bay Blvd.  
Suite Number 505  
Naples, Florida 34108  
Address For 100: 3408  
12391 596-1175

PLANS PREPARED BY:  
**CH2MHILL**

ATTENTION IS DIRECTED TO THE FACT THAT  
THESE PLANS MAY HAVE BEEN REPRODUCED  
IN WHOLE OR IN PART WITHOUT THE  
WRITTEN PERMISSION OF CH2MHILL.  
REPRODUCTION OF THESE PLANS WITHOUT  
THE WRITTEN PERMISSION OF CH2MHILL  
IS STRICTLY PROHIBITED.

ROADWAY PLANS  
ENGINEER OF RECORD: WILLIAM J. GRAMER

P.E. NO. 55030

FISCAL YEAR	SHEET NO.
	1

Exhibit 2.0  
Application No. 070809-12  
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**NOTES TO REVIEWER:**

1. PREPARE FOR COLLIER BOULEVARD NORTH OF GREEN BOULEVARD IS ANTICIPATED TO BE HANDLED BY MEANS OF LATERAL DITCHES.
  - THE EXISTING WEST SIDE LATERAL DITCH WILL BE WIDENED TO ACCOMMODATE THE ADDITIONAL LANE ADDED, APPROXIMATELY 35 FT. OF ROW ACQUISITION FOR THE DITCH WIDENING AND SIDEWALK/PATHWAY.
  - THE EXISTING EAST SIDE LATERAL DITCH IS TO REMAIN.
- A MEETING WITH SPWMD TO OAH CONCURRENCE ON THE PLANNED DESIGN WAS HELD ON APRIL 17, 2007.
2. THE EXISTING VERTICAL PROFILE FOR COLLIER BOULEVARD IS LESS THAN A 0.30% SLOPE. IN SOME CASES WHICH ARE NOT SHOWN, THE SLOPE WILL BE MODIFIED TO 0.30% TO MAINTAIN THE MINIMUM SLOPE. THE SLOPE WILL BE MODIFIED BOTH THE LONGITUDINAL AND TRANSVERSE SLOPE OF THE ROAD. IT WOULD NOT BE FEASIBLE TO CORRECT THE DEFICIENCY.
3. THE PROFILE AND CROSS SECTIONS FOR GREEN BOULEVARD AND GAS STATION DRIVEWAY WILL BE ADDED PRIOR TO 600' PLAN SUBMITTAL. ADDITIONAL SURVEY IS NEEDED IN THOSE AREAS TO COMPLETE DESIGN.
4. THE LIMITS OF BRICK PAVEMENT AND THE LOCATIONS OF IRRIGATION SLEEVES WILL BE COORDINATED WITH P&M WHICH AFTER THE 900' PLANS PHASE AND SHOWN ON THE 900' PLANS SUBMITTAL.
5. RELOCATION OF EPI POLES WILL BE SHOWN ON THE 600' PLANS SUBMITTAL. EPA WILL PROVIDE LOCATIONS BASED ON THE 800' SET OF PLANS
6. THE EXISTING COUNTY UTILITIES SHOWN UNDER WHITE BOULEVARD (EAST OF COLLIER BLVD) WILL REMAIN IN PLACE. THIS WAS PREVIOUSLY DISCUSSED AND AGREED TO BY PUCED IRON DILLARD AT THE 600' COORDINATION MEETING.

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

<b>CH2MHILL</b> 5405 Pelham Bay Drive, Suite 505 Bronx, NY 10476 (212) 556-7100 Certificate of Authorization: 000072 Professional Engineer P.E. License No.: 59030		TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT COUNTY: COLLIER ROAD NO.: 951 FINANCIAL PROJECT ID: 68056	COLLIER BOULEVARD (C.R. 951) NOTES TO REVIEWER	SHEET NO.: 2
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**GENERAL NOTES:**

- ALL DIMENSIONS, ELEVATIONS & RADII ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- EXISTING DRAINAGE STRUCTURES NO LONGER REQUIRED WITHIN THE CONSTRUCTION LIMITS ARE TO BE REMOVED UNLESS OTHERWISE NOTED.
- ANY PUBLIC LAND OR OTHER LAND WITHIN THE LIMITS OF COUNTY ROW IS TO BE PROTECTED BY A CORNER MONUMENT CORNER BY BEING SURVEYED, AND HAS NOT BEEN PROPERLY REFERENCED, THE CEI SHOULD NOTIFY THE COUNTY SURVEYOR.
- IF WATER MANAGEMENT DISTRICT BENCH MARK RELOCATION IS NECESSARY, THE CEI SHALL NOTIFY SOUTH FLORIDA WATER MANAGEMENT DISTRICT CIVIL SURVEY DEPARTMENT STEVE MAGLE 1300 FORT MYERS BLVD. TELEPHONE NO. (239) 338-2829
- THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
- BEFORE BEGINNING EXCAVATION IN THE AREA, THE CONTRACTOR SHALL NOTIFY "SUNSHINE" ONE DAILY UNDERGROUND UTILITY NOTIFICATION CENTER AT 1-800-452-4770 AND NOTIFY ANY UTILITIES WHICH MIGHT BE AFFECTED AT LEAST 48 HOURS IN ADVANCE. ALL UTILITY OWNERS MUST BE A MEMBER, YET BEING DIRECT CONTACT.
- THE CONTRACTOR IS HEREBY NOTIFIED THAT ABOVE GROUND OR UNDERGROUND UTILITIES ARE SHOWN IN THE AREA OF THIS PROJECT.
- FOR UTILITY ADJUSTMENT SYMBOLS, SEE FOOT STANDARD INDEX NO. 002.
- THE LOCATIONS OF THE EXISTING & PROPOSED UTILITIES SHOWN IN THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR AND SHALL BE DETERMINED BY THE UTILITY OWNER & CONTRACTOR DURING CONSTRUCTION.
- FOR DISPOSITION OF UTILITIES, SEE UTILITY ADJUSTMENT SHEETS.
- NORTH, THE GRID, AND THE COORDINATES SHOWN HEREON ARE REFERENCED TO EAST ZONE OF FLORIDA STATE PLANE COORDINATE SYSTEM, NAD 83. ALL ELEVATIONS SHOWN ARE TO NATURAL VERTICAL DATUM OF 1988.
- GRADES SHOWN ARE FINISHED GRADES.
- CONTRACTOR SHALL RESET ALL HORIZONTAL AND VERTICAL CONTROL POINTS OVERLAPPED OR DESTROYED DURING CONSTRUCTION.
- UTILITIES SHOWN ARE TAKEN FROM INFORMATION PROVIDED BY THEIR RESPECTIVE OWNERS AND ARE THE LOCATIONS AND DEPTHS OF UTILITIES AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION OPERATIONS SHALL BE REPHASED AT THE CONTRACTOR'S EXPENSE.
- ALL WORK AFFECTING EXISTING PRIVATE STRUCTURES OR UTILITIES SHALL BE COORDINATED WITH THE OWNER PRIOR TO CONSTRUCTION.
- ALL UTILITY SERVICE SHALL BE MAINTAINED DURING ENTIRE CONSTRUCTION PERIOD ON TEMPORARY FACILITIES PROVIDED. DAMAGED SERVICES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- FLORIDA POWER AND LIGHT COMPANY, ENERGY TELEPHONE SYSTEM, TIME WARNER CABLE, ETC. UTILITIES WILL BE RELOCATED BY THEIR RESPECTIVE OWNERS. STREET LIGHTS ARE TO BE RELOCATED BY THE CONTRACTOR AND DISPOSED OF AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS PRIOR TO BEGINNING CONSTRUCTION IN THE AREA.
- CONTRACTOR SHALL NOT DISTURB AREAS BEYOND 5 FEET OUTSIDE PROPOSED TIE-UP SLOPE OR TOP OF CURB CONTROL POINTS. ANY WORK OUTSIDE OF RIGHT-OF-WAY LINE OR EASEMENT LINES, EXISTING MAIL BOXES SHALL BE RELOCATED IN ACCORDANCE TO THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, NED 503.
- HAZ BALETS ARE TO BE PLACED AT THE UPSTREAM END OF EACH MITERED END SECTION.
- CURB CUT RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD INDEX 304.
- CONTRACTOR SHALL OBTAIN PROPERTY OWNER OR RAYS WRITTEN APPROVAL TO CONSTRUCTION TO MODIFY EXISTING IRRIGATION SYSTEM WITHIN THE PROPOSED ROW. CONTRACTOR SHALL OBTAIN EXISTING SYSTEM AT ROW LINE IF PROPERTY OWNER DOES NOT MODIFY SYSTEM PRIOR TO CONSTRUCTION AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL MARK NEW LOCATION OF IRRIGATION LINE.

- UNLESS OTHERWISE APPROPRIATE, SUCH AS MATCHING EXISTING SUBDIVISION SECTIONS, DATA SHOWN IS TO BE USED IN ALL AREAS WHERE SODDING IS SHOWN AND AS DIRECTED BY THE CONTRACTOR. SODDING WILL BE IN WRITING AND SUBMITTED TO THE CEI.
- LANDSCAPE BASE THAT IS REMOVED MAY BE INCORPORATED IN THE FILL PORTION OF THE EXISTING COMPLETED SURGRADE AND THE STABILIZED PORTION OR REWORKING OF THE EXISTING COMPLETED SURGRADE.
- LIST OF ALL SIGNS THAT ARE DAMAGED AND ARE NOTICED AS TO REMAIN OR TO BE REPLACED SHALL BE DETERMINED BY THE ENGINEER. SIGN PANELS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- ALL GRAVITY AND RETAINING WALLS INCLUDE HANDRAILS UNLESS OTHERWISE NOTED.
- EXISTING STREET AND ROAD NAME SIGNS ARE TO BE TEMPORARILY RELOCATED TO THE CONSTRUCTION LIMITS OF THE ENGINEER AND KEPT WORKABLE. THE COST OF THE RELOCATION OF THE SIGN SHALL BE PAID FOR BY ITEM NO. 002-1.
- PUBLIC ACCESS TO BUSINESSES, RESIDENCES AND SIDE STREETS MUST BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. TURNOUTS AND DRIVEWAYS ARE TO BE CONSTRUCTED AT NIGHT OR UNDER TRAFFIC CONDITIONS WITH LOT MAINTENANCE OF TRAFFIC UTILIZED.
- 4" AND 6" SCHEDULE 40 PVC TO BE CONSTRUCTED LAPPED AND BORED UNDER EXISTING PAVEMENT TO PROVIDE FOR MEDIAN IRRIGATION IN LOCATION SHOWN ON PLANS.
- TEMPORARY SLEETING, FRENCH BOXES & DRAINAGE MAY BE REQUIRED TO CONSTRUCT SOME SEGMENTS OF THE STORM SEWER OR DRAINAGE STRUCTURES. DRAINAGE PERMIT SHALL BE OBTAINED FROM THE COUNTY ENGINEER PRIOR TO CONSTRUCTION. ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE COST OF THE STORM SEWER OR DRAINAGE STRUCTURE.
- THE CONTRACTOR SHALL SMOOTH MATCH LINES FOR JOINING EXISTING PAVEMENT, STREETS, DRIVEWAYS, ETC. COST TO BE INCLUDED IN THE PAVEMENT COSTS.
- THE CONTRACTOR SHALL SUBMIT IN WRITING AN EROSION CONTROL PLAN (ECP) AS REQUIRED IN SECTION 04 OF THE STANDARD SPECIFICATIONS. THIS ECP SHALL INCLUDE THE IMPLEMENTATION SCHEDULE OF ALL EROSION CONTROL MEASURES.
- NONE OF THE EXISTING BASE THAT IS REMOVED IS TO BE USED IN THE CONSTRUCTION OF THE NEW BASE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE HELD TO AN ADDITIONAL COMPENSATION OR CLAIM FOR DELAY FOR DIFFERING SITE CONDITIONS.
- IRRIGATION SLEEVES SHALL BE 4" AND 6" SCH 40 PVC. CASING SHALL EXTEND A MINIMUM OF 6" BELOW FINISHED GRADE. ALL SLEEVES SHALL BE FACED TO TOP OF CASING OR A MAJOR EROSION CONTROL MEASURE SHALL BE INSTALLED AT BOTH ENDS. SLEEVES OF CASING SHALL BE CURVED. 6" PVC SHALL BE PLACED FROM POWER SOURCE TO MEDIAN.

**EROSION CONTROL NOTES**

- EROSION CONTROL PLAN (ECP) THE FINAL EROSION CONTROL PLAN USED AND SUBMITTED BY THE CONTRACTOR SHALL DESCRIBE IN DETAIL HOW THE CONSTRUCTION OPERATIONS SHALL BE PHASED WITH REGARD TO MINIMIZING EROSION PROBLEMS BY THE USE OF TEMPORARY AND PERMANENT EROSION CONTROL MEASURES. THE EROSION CONTROL PLAN SHALL BE REVIEWED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR. THE MODIFICATIONS MUST BE ALLOWED FOR SUCH MODIFICATIONS OR APPROVALS.
- OVERALL PROTECTION OF EXISTING OR DITCH DISCHARGES IN TO OFFSITE DITCHES SHALL BE PROTECTED DAILY FOR PROSS. THE CONTRACTOR SHALL MAINTAIN THE PROTECTION THROUGHOUT THE PROJECT. ANY SEDIMENT BUILDUP ON TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL USE APPROPRIATE FEATURES AS DIRECTED BY THE PROJECT ENGINEER FOR DITCH PROTECTION.
- SLOPE PROTECTION: ANY DISTURBED OR REWORKED SLOPES JEOP GREATER SHALL BE ADEQUATELY PROTECTED FROM EROSION THROUGH THE USE OF TEMPORARY SLOPE PROTECTION MEASURES. SUCH SLOPES SHALL NOT BE LEFT UNPROTECTED MORE THAN 24 HOURS OR DURING RAINFALL EVENTS.

- SWAYBARS, HAIR BALES OR SILT FENCES SHALL BE PLACED AT THE BASE OF ANY SLOPE WHERE BANK PROTECTION IS REQUIRED. HAIR BALES SHALL BE DOUBLE STAKED IN ACCORDANCE WITH STANDARD INDEXES. IF EROSION DEPOSITS SHOULD BE REMOVED, ANY DAMAGED OR INEFFECTIVE HAIR BALES ARE TO BE REPLACED WITH NEW ONES.
- THE CONTRACTOR SHALL SPECIFY OTHER MEASURES AS NECESSARY.
- MEDIAN AND DITCH BOTTOM INLETS SHALL BE PROTECTED FROM SEDIMENT INAKE UNTIL PROJECT IS COMPLETE. HAIR BALES SHALL BE INSTALLED AROUND INLET TOP, APPROXIMATELY 4' OUTSIDE THE INLET. THERE SHALL BE A MINIMUM OF 12" OF FREEBOARD ABOVE THE INLET. HAIR BALES IN PAVED AREAS SHALL ALSO BE PROTECTED WITH A SINGLE LINE OF HAIR BALES TO PREVENT SEDIMENT INAKE FROM OTHER AREAS. CURB PROTECTION SHALL BE INSTALLED IMMEDIATELY ADJACENT TO THE PERIMETER OF THE INLET OPENING IMMEDIATELY ADJACENT TO THE INLET. HAIR BALES SHALL BE PLACED AROUND THE PERIMETER OF THE INLET OPENING IMMEDIATELY ADJACENT TO THE INLET. HAIR BALES SHALL BE COVERED WITH EROSION CONTROL MATTING WITHIN OUTER LIMITS PROTECTED BY A SINGLE ROW OF HAIR BALES.
- STOCKPILED MATERIALS - THIS MATERIAL SHALL NOT BE LEFT IN EROSION PRONE AREAS UNLESS PROTECTED BY COVER OF HAIR BALES.
- WEEKLY INSPECTIONS OF ALL EROSION CONTROL MEASURES AND DEFICIENCIES SHALL BE NOTED AND CORRECTED.
- DEFENTION AREAS OR TREATMENT DITCHES AS A GENERAL RULE ARE TO BE CONSTRUCTED TO COMPLETION ACCORDING TO PLANS AND SPECIFICATIONS. EROSION CONTROL MEASURES ARE TO BE INSTALLED THROUGHOUT THE PROJECT AS DESCRIBED IN OTHER AREAS OF THE EROSION PLAN AND SPECIFICATIONS. EROSION CONTROL MEASURES SHALL BE MAINTAINED TO ENSURE PROPER OPERATION DURING CONSTRUCTION AND FOR FINAL ACCEPTANCE.

**CHANGING OR IMPLEMENTATION OF ENVIRONMENTAL CONTROL PLAN**

- PHASE I DETERMINATION IF TREE PROTECTION AND PRUNING IS APPLICABLE.
- PHASE II INSTALLATION OF ENVIRONMENTAL CONTROL FEATURES ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN PLAN QUANTITIES ARE TO BE INSTALLED THROUGH THE CLEANING AND GRUBBING LIMITS AND ARE TO BE INSTALLED THROUGH THE CLEANING AND GRUBBING LIMITS AREAS AS DIRECTED BY THE CONTRACTOR. HAIR BALES, SILT CONTAINERS, TURBIDITY BARRIERS, ETC.
- PHASE III CLEANING AND GRUBBING SHALL BE LIMITED AS INDICATED ON THE TYPICAL SECTIONS.
- PHASE IV DRAINAGE SYSTEM OR STRUCTURE ENVIRONMENTAL CONTROL FEATURES ENVIRONMENTAL CONTROL FEATURES AS PROVIDED IN PLAN QUANTITIES ARE TO BE INSTALLED AT ALL AREAS OF EXCAVATION OR FILL FOR EXCAVATION OR FILL ALL STREAMS OR DITCHES ARE TO BE PROTECTED FROM EROSION OR SILTATION BY THE METHODS DETAILED IN THE EROSION CONTROL PLAN. ALL EXCAVATION AREAS SHALL ALSO BE PROTECTED FROM SILTATION AS DETAILED IN THE ECP) WITH STOCKED HAIR BALES, SEDIMENT BASINS, TURBIDITY BARRIERS, FLOWING SILT BARRIERS, ETC.
- PHASE V MAINTENANCE OF ENVIRONMENTAL CONTROL FEATURES ALL ENVIRONMENTAL CONTROL FEATURES ARE TO BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT AS NECESSARY FOR THE PROTECTION OF THE ENVIRONMENT. THE CONTRACTOR SHALL MAINTAIN THAT ALL OF THESE FEATURES FUNCTION PROPERLY AT ALL TIMES.

- THE CONTRACTOR MAY CONSTRUCT THE PROJECT IN SEGMENTS BUT EACH OF THE ABOVE PHASES MUST BE FOLLOWED FOR EACH SEGMENT.
- ALL EROSION AND MATERIAL DEPOSITS MUST BE CONTAINED WITHIN THE LIMITS OF PROJECT SEGMENT LIMITS.

DATE		DESCRIPTION	REVISED BY	DATE	DESCRIPTION
P. E. V. I. S. I. O. N. S.					
<b>CH2MHILL</b>			<b>TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT</b>		
5800 Pavilion Bay Drive, Suite 305 Fort Myers, FL 33907 Certified Professional Engineer P.E. License No. 59090		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
	951	COLLIER	680056		
<b>GENERAL NOTE</b>					SHEET NO.
					2A

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**Exhibit 2.0**  
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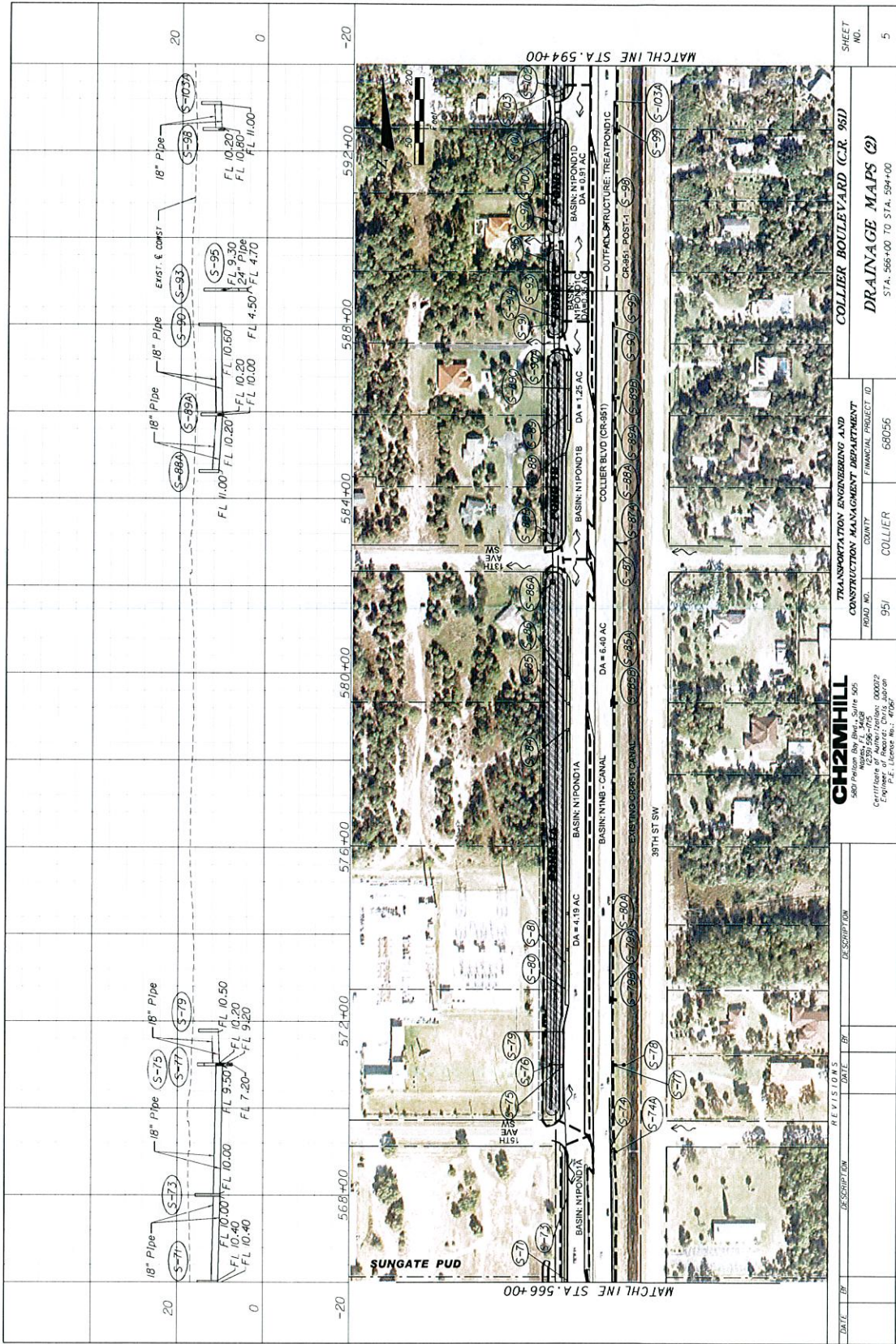


DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

<b>CH2M-HILL</b> 5601 Pearson Blvd., Suite 505 Naples, FL 34108 Certificate of Authorization: 000072 Engineering License No.: 47062		TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT ROAD NO. 951 COUNTY COLLIER FINANCIAL PROJECT ID 68056		COLLIER BOULEVARD (CR-951) DRAINAGE MAPS (I) STA. 538+00 TO STA. 566+00	
PROJECT NO. 68056 COUNTY COLLIER				SHEET NO. 4	

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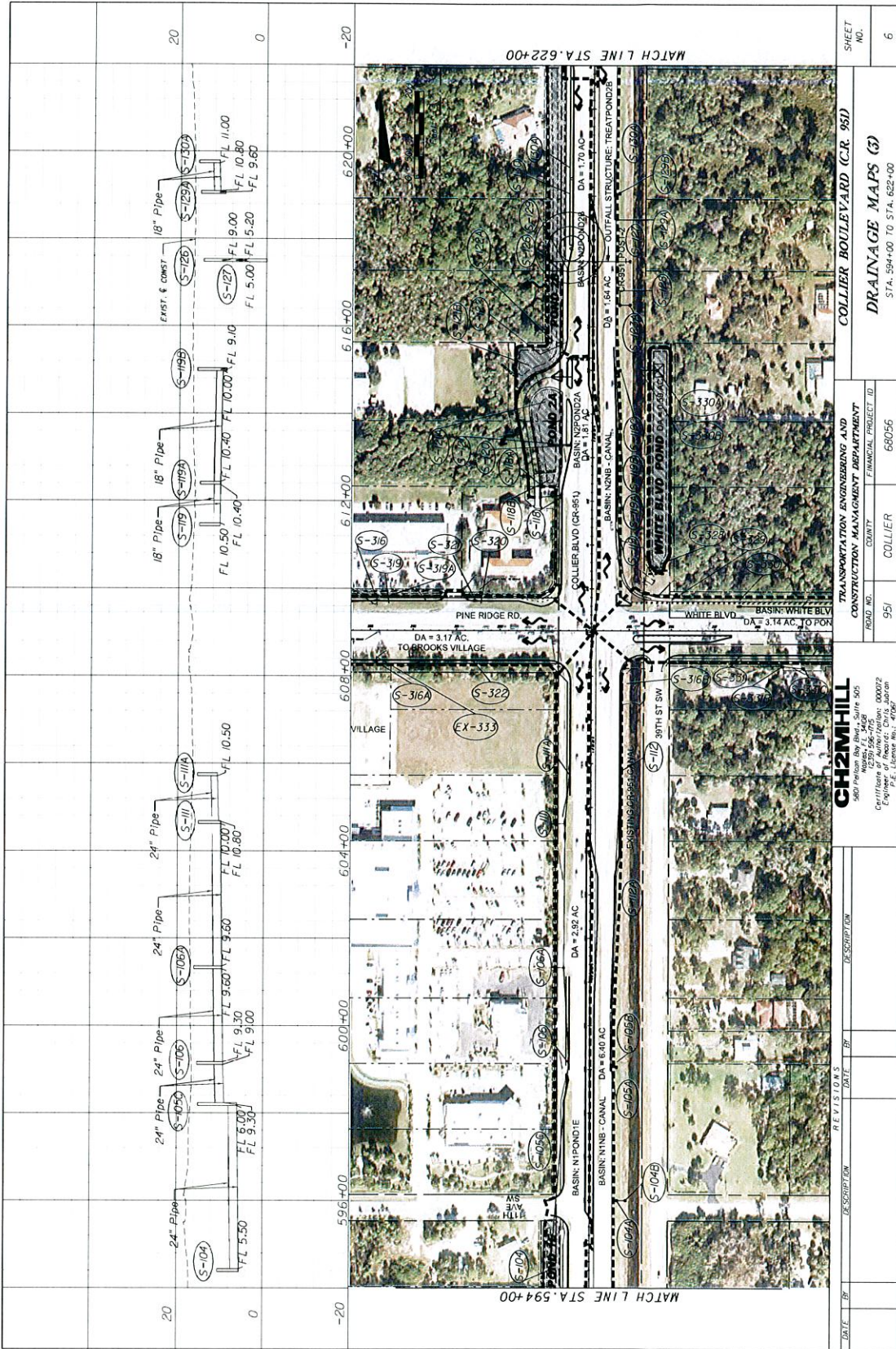
DATE	BY	DESCRIPTION
11/15/15	BR	

<b>CH2M-HILL</b> 5801 Pelham Bay Blvd., Suite 405 New York, NY 11436 Certificate of Authorization: 000072 Civil P.E. License No.: 40927		TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT ROAD NO. 951 COUNTY COLLIER FINANCIAL PROJECT ID 68056
COLLEGER BLVD (C.R. 95) DRAINAGE MAPS (2) STA. 566+00 TO STA. 594+00		SHEET NO. 5

Exhibit 2.0  
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DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

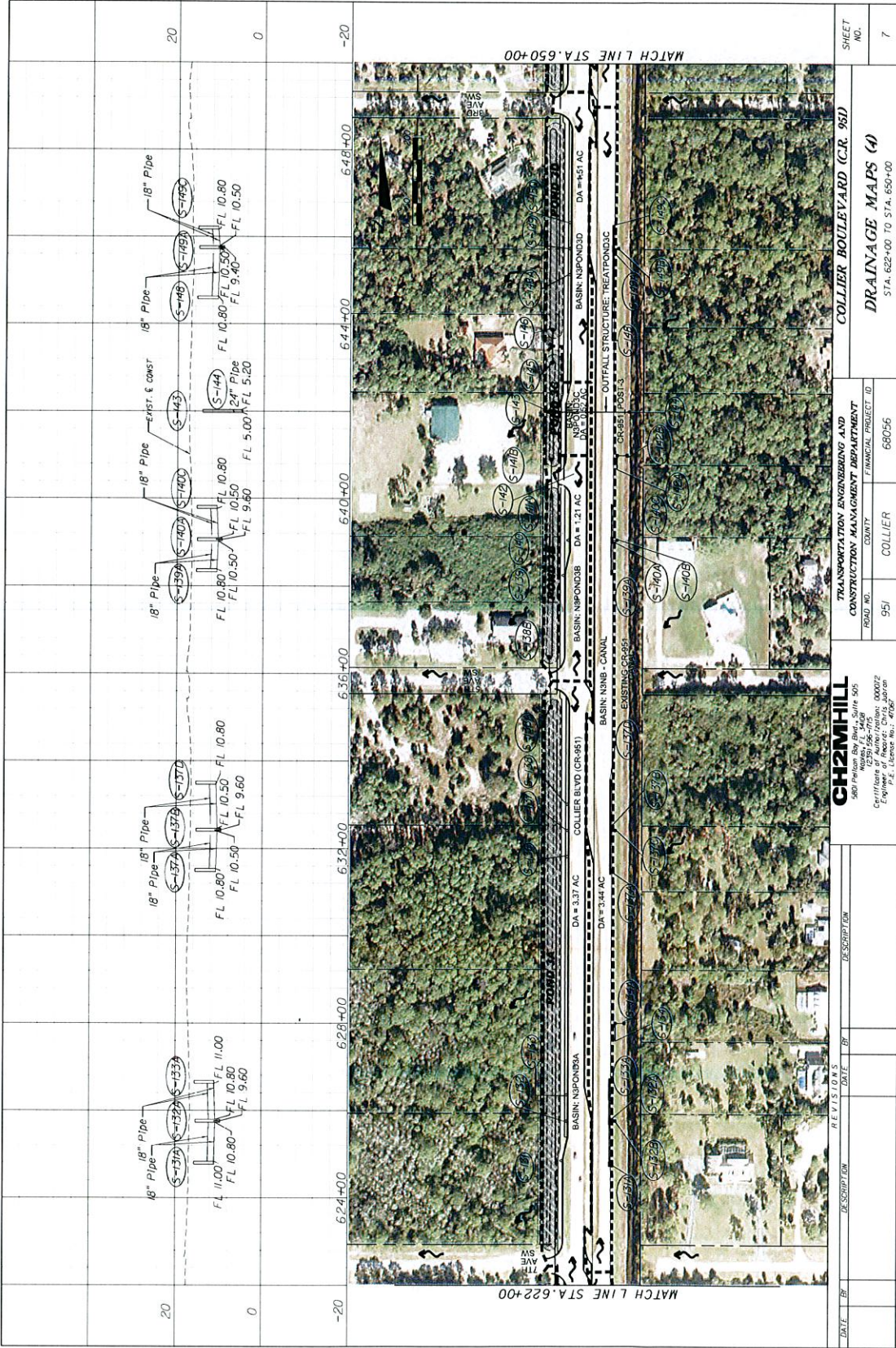
TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT	FINANCIAL PROJECT ID	68056
ROAD NO.	COUNTY	COLLIER
951		

COLLIER BOULEVARD (CR 951)	SHEET NO.	6
<b>DRAINAGE MAPS (8)</b>		
STA. 594+00 TO STA. 622+00		

CH2M HILL	PROJECT	6/4/2002
3800 Parkman Blvd, Suite 505 Naples, FL 34109 Certificate of Authorization: 000072 Engineering License No.: 47092		

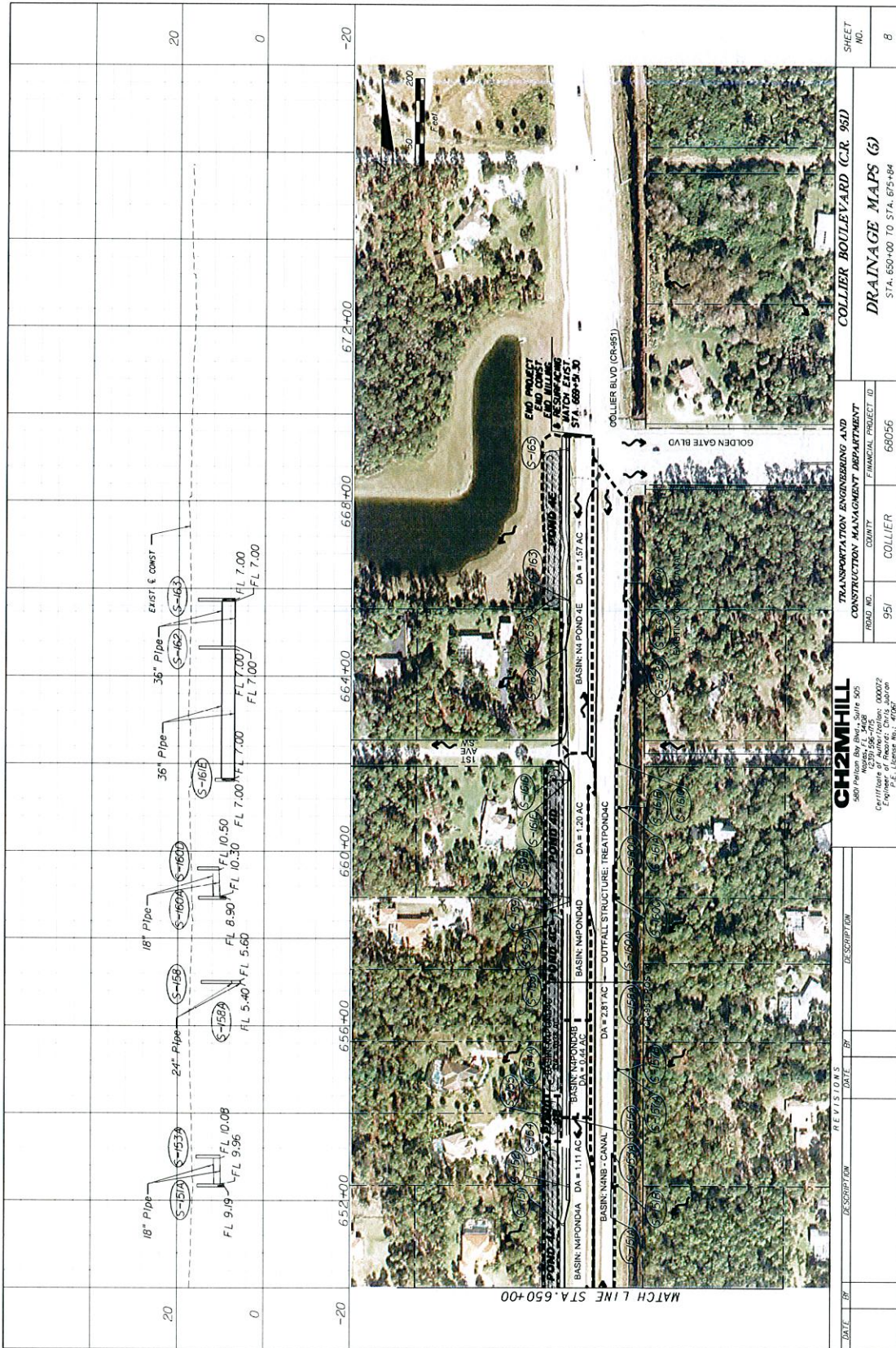


DATE	BY	DESCRIPTION	REVISION	DATE	BY	DESCRIPTION

<b>CH2M-HILL</b> 5801 Nelson Bay Blvd., Suite 505 Nashville, TN 37215-5568 Certificate of Authorization: 000072 Employer's License No.: 47067		TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT	ROAD NO. 951	COUNTY COLLIER	FINANCIAL PROJECT ID 680056
COLLIER HILL		COLLIER BOULEVARD (C.R. 951)	DRAINAGE MAPS (4)		
MATCH LINE STA. 622+00		MATCH LINE STA. 650+00		SHEET NO. 7	

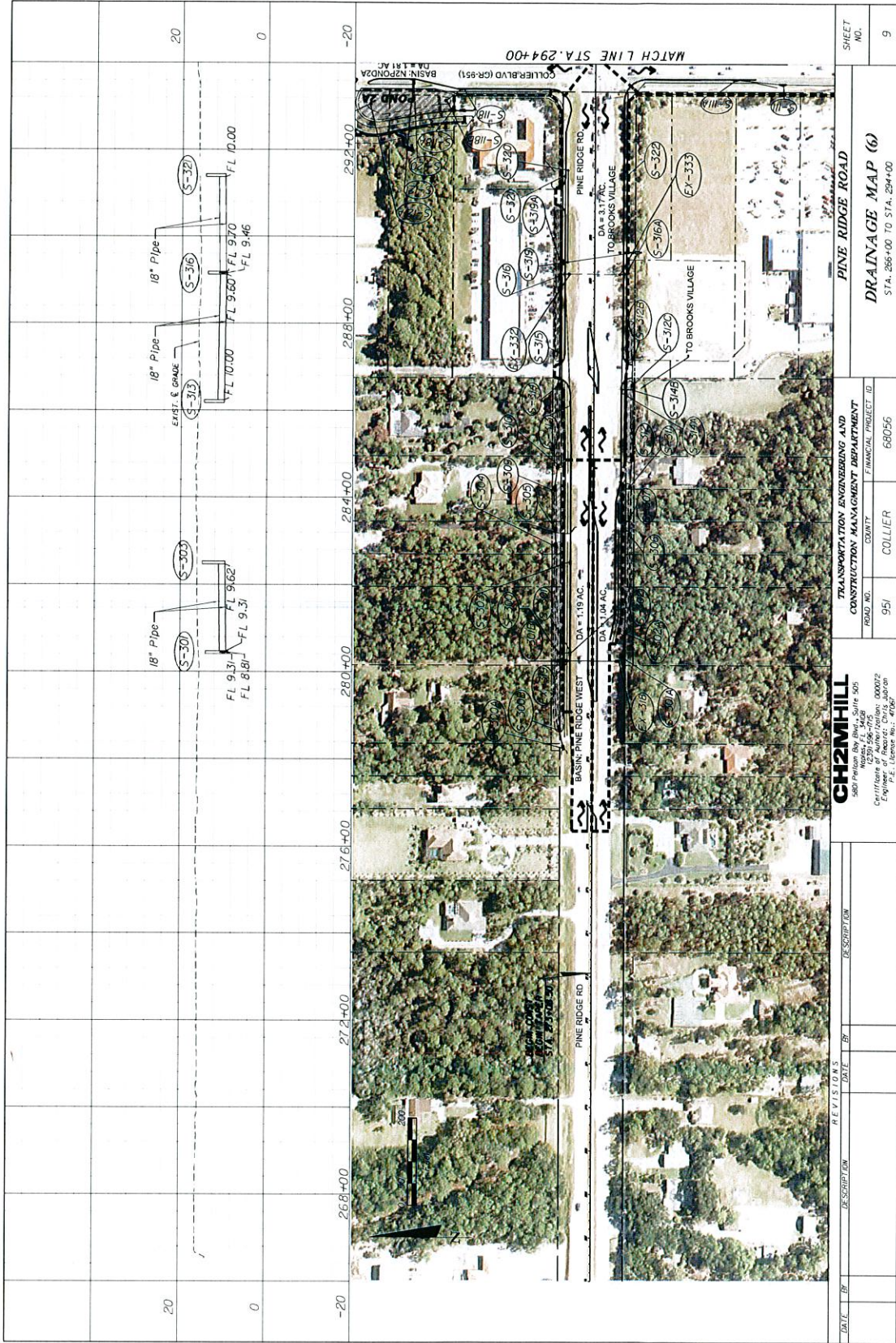
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DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

<b>CH2M-HILL</b> 5800 Preston Bay Blvd., Suite 500 Houston, TX 77056 Certificate of Authorization: 000072 Engineering License No.: 47092	ROAD NO.: 951 COUNTY: COLLIER FINANCIAL PROJECT ID: 68056	TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT	COLLIER BOULEVARD (CR-95) <b>DRAINAGE MAPS (6)</b> STA. 650+00 TO STA. 675+84	SHEET NO.: 8
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DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

<b>CH2M-HILL</b> 5801 Person Bay Blvd., Suite 505 Houston, TX 77056-2718 Certificate of Authorization: 000072 Engineer, P.E. License No.: 41042		TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT ROAD NO. 951 COUNTY COLLIER FINANCIAL PROJECT ID 68056	DRAINAGE MAP (6) STA. 266+00 TO STA. 294+00	SHEET NO. 9
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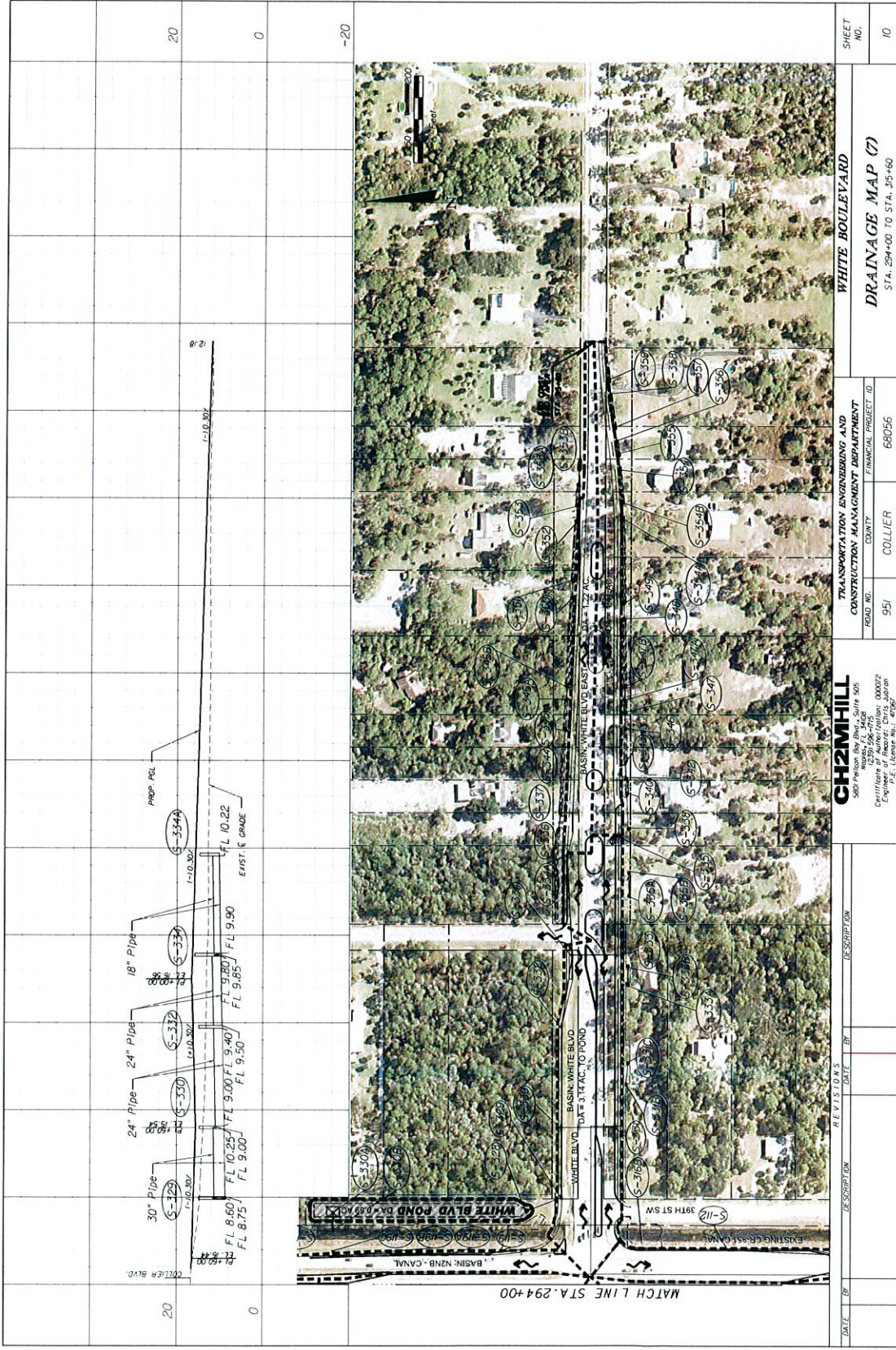


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DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

<b>CH2M-HILL</b> 5601 Preston Bay Blvd., Suite 505 Naples, FL 34108 Certificate of Authorization: 000072 Expire Date: 12/31/2012 License No.: 10062		<b>TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT</b> ROAD NO. 951 COUNTY COLLIER FINANCIAL PROJECT ID 68056		<b>WHITE BOULEVARD DRAINAGE MAP (7)</b> STA. 294+00 TO STA. 315+50		SHEET NO. 10	
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EXIST. PBLT

20

0

-20

20

0

-20

32+00

36+00

40+00

44+00

48+00

52+00

56+00

58+00

BEGIN STA. 30+00

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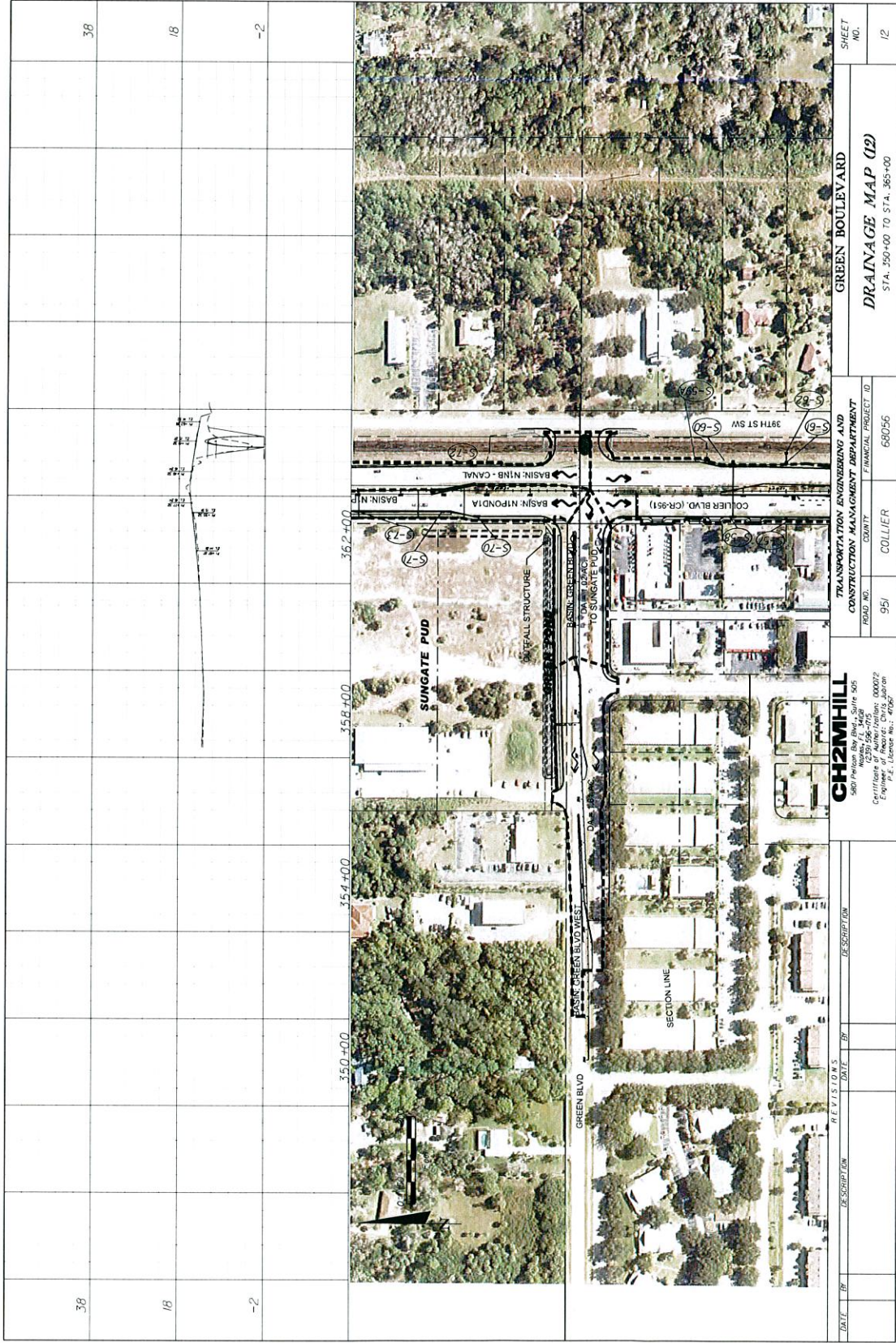
DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION

**CH2M-HILL**  
 580 Perimeter Blvd., Suite 505  
 Marietta, GA 30067  
 (770) 596-7170  
 Certificate of Authorization: 000072  
 C-Engineering License No.: 47092

TRANSPORTATION ENGINEERING AND  
 CONSTRUCTION MANAGEMENT DEPARTMENT  
 ROAD NO. 951 COUNTY COLLIER FINANCIAL PROJECT ID 68056

**GOLDEN GATE BOULEVARD**  
**DRAINAGE MAP (8)**  
 STA. 30+00 TO STA. 58+00

SHEET NO. //



DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

<b>CH2M-HILL</b> 580 Peterson Bay Blvd., Suite 505 Houston, TX 77058 Certificate of Professional Engineer License No. 40042	ROAD NO. 951 COUNTY COLLIER FINANCIAL PROJECT ID 68056	<b>TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT</b> STA. 350+00 TO STA. 365+00	<b>GREEN BOULEVARD</b> <b>DRAINAGE MAP (12)</b>	SHEET NO. 12
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Exhibit 2.0  
 Application No. 070809-12  
 Page 12 of 72

**APPLICATION NO. 070809-12**  
**PERMIT NO. 11-03194-P**  
**Collier Boulevard – Golden Gate Main**  
**Canal to Golden Gate Boulevard**

**Exhibits by Reference:**

**Exhibit 2.0 (pages 13-72 of 72) – Typical  
Sections/ Plan & Profile Sheets**



**CONSTRUCTION POLLUTION PREVENTION PLAN**

Project Name and Location (City, County, Longitude, or Address)	SITE DESCRIPTION
Collier Boulevard 4 miles from Golden Gate Main Canal to Golden Gate Boulevard  Collier County	
Description: (Purpose and Types of Soil Disturbing Activities)	
<p>This project will add 2 lanes to the existing 4-lane urban facility. Construction will include dry detention areas, ditches and considerable grade work. Soil disturbing activities will include: clearing and grubbing, installing a stabilized construction entrance, perimeter berming and silt fence, construction of curb and gutter, road, and preparation for final landscaping.</p>	
Runoff Coefficient:	The final coefficient of runoff for the site will be $c = 0.76$ .
Site Area:	The site area is approximately 98.4 acres of which 29.1 acres will be disturbed by construction activities.
Sequence of Water Activities:	The sequence of construction activities will be in accordance with the Traffic Control Sheets.
Construction (C204) or will be implemented by the Project Engineer in a manner appropriate to environmentally sensitive construction practices:	<p>A. The actual construction schedule will be completed by the Contractor and submitted to the Collier County for concurrence.</p> <p>B. The Contractor must supply DEP with "Plan Changes" filed and signed by a Professional Engineer for implementation of alternative control measures.</p> <p>9. Complete grading subgrade and base course</p> <p>10. Complete final paving</p> <p>11. Complete landscape grading and install irrigation and</p> <p>12. When all construction activity is complete and the site is stabilized, remove temporary earth berms, straw bale barriers and litter fences and re-seed any areas disturbed by their removal.</p>
Partial clearing and grubbing:	
1. Installation of perimeter silt fence per construction plans.	
2. Construction of storm water detention areas, include placement of control structures	
3. Stockpile excavated material.	
4. Stabilize denuded areas and stockpiles within 21 days of completion.	
5. Grade and stabilize perimeter berm.	
6. Install utilities, storm sewer, curb and gutter.	
Name of Receiving Waters:	851 Canal
<b>CONTROLS</b>	
Erosion and Sediment Controls	
Stabilization Practices:	
<p><b>Temporary Stabilization:</b> The Contractor will be responsible for: Top soil, each area and disturbed portion of the site, where construction activity temporarily ceases for at least 21 days will be stabilized with temporary seed and mulch no later than 14 days from the last construction activity in that area. The seed shall be Bahia, millet, ryegrass, or other fast-growing grasses. Areas of the site which will be paved will be temporarily stabilized by applying limestone subgrade until bituminous pavement can be applied.</p> <p><b>Permanent Stabilization:</b> The Contractor will be responsible for: Disturbed portions of the site, where construction activities cease for more than 14 days after the date of the last construction activity. The seed shall be Bahia, millet, ryegrass, or other fast-growing grasses. Prior to seeding, fertilizer or agricultural limestone shall be applied to each area to be temporarily stabilized. After seeding, each area shall be mulched with the mulch disked into place. Refer to FDOT Index-104.</p>	

CONTROLS (Continued)
Structural Practices
<p><b>Silt Fence / Turbidity Barrier</b> – Silt fence will be installed along the project limits and those areas of the project that border adjacent wetlands and a turbidity barrier will be placed at locations per FDOT indexes. Two rows of floating turbidity barrier will be installed at all FDOT Index 102 and 103. The barrier will be anchored such that a 5' separation will be maintained. Refer to FDOT Index 102 and 103.</p> <p><b>Rock Bagged Filter Fabric</b> – will be placed around all constructed storm drain inlets immediately upon completion of construction and shall remain in place until the contributing drainage area is stabilized. Alternatively, grate inlets can be covered with filter fabric material until stabilization. Refer to Index 102.</p>
Storm Water Management
<p>The project will utilize a system of detention areas to provide the required water quality treatment and attenuation. Discharges from the management system will be regulated by a series of water control structures. These control structures will be used to maintain water in the detention areas to ensure the hydroperiod in the surrounding areas. The water control structures will also be used to restrict the discharges from the project.</p> <p>The system will discharge at a rate equal or lower than the predevelopment conditions.</p>
OTHER CONTROLS
Waste disposal:
<p><b>Waste Materials:</b></p> <p>The Contractor will provide litter control and collection within the project boundaries during construction activities. All waste materials will be collected and stored in a trash dumpster or approved containers which will meet all local and State solid waste management regulations. All trash and construction debris from the site will be deposited in these containers. The dumpster will be emptied as needed. All construction waste materials will be disposed of in the appropriate landfill operation. No construction waste materials will be disposed of in any other location. All fertilizers, herbicides, pesticides, and other chemical products shall be disposed of by the Contractor according to EPA standard practices as outlined by the manufacturer.</p> <p><b>Hazardous Waste:</b></p> <p>All hazardous waste materials will be disposed of in the manner specified by local or State regulation or by the manufacturer. Site cleanup activities will be performed in accordance with the Florida Department of Environmental Protection's "FOOT" Standard Specifications for Road and Bridge Construction (2004) – as amended – Section 902. Soil stabilizers will be used in accordance with Section 339 of the Standard Specifications.</p> <p><b>Sanitary Waste:</b></p> <p>The project is located in an urban area. Any field offices will have connection to the Municipal Sewage System of the Contractor will utilize permits for sewage treatment according to FAC 10-09 "Standards for On-Site Sewage Disposal Systems". All sanitary waste shall be removed from the portable units by a local licensed Collier County sanitary waste management contractor, as required by local regulation.</p> <p><b>Non-Storm Water Discharges:</b></p> <p>The Contractor will provide Collier County with an Erosion Control Plan incorporated into the construction schedule that will include spill reporting and response. If contaminated soil or ground water is encountered, Ted Plac, Collier County Project Manager, will be contacted at (239) 659-5773.</p>
TIMING OF CONTROLS/MEASURES
<p>Installation of synthetic bails / silt fence barriers (around wetlands) and stabilized construction entrance will take place prior to extensive clearing or grading of any other portions of the site. Areas where construction activity temporarily ceases for more than 21 days will be stabilized with a temporary seed and mulch within 14 days of the last disturbance. Once construction activity ceases, stabilization measures (e.g., rip-rap, geotextiles). After the entire site is stabilized, the silt fence / synthetic silt barriers can be removed.</p>
CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS
<p>The storm water pollution prevention plan reflects the United States Environmental Protection Agency and the South Florida Water Management District (SFWMD) requirements for storm water management and erosion and sediment control, as established in the Chapter 40E-4 FAC and Chapter 373 FS.</p>

<b>TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT</b>		<b>COLLIER BOULEVARD (CR. 95D)</b>		SHEET NO.
ROAD NO. COUNTY FINANCIAL PROJECT ID		STORM WATER POLLUTION PREVENTION PLAN		185
951	COLLIER	680756		
<small>1/12/2009</small> <small>CH2M HILL</small> <small>5007 Pelican Bay Blvd., Suite 500</small> <small>Cape Coral, Florida 33914</small> <small>Telephone: 239-596-7175</small> <small>Facsimile: 239-596-6626</small> <small>Engineer of Record: William J. Croner</small> <small>P.E., License No. 59090</small>				
DATE	BY	DATE	BY	DATE
<small>R E V I S I O N S</small> <small>DESCRIPTION</small>				

5. MAINTENANCE

a) The Contractor shall be responsible for daily inspection and maintenance of all erosion control devices throughout the construction phase of the project. Maintenance shall be conducted in accordance with Erosion Control Standards for Road and Bridge Construction - (2008) Section 104 and "Design Standards (2006) Standard Indices 100-105.

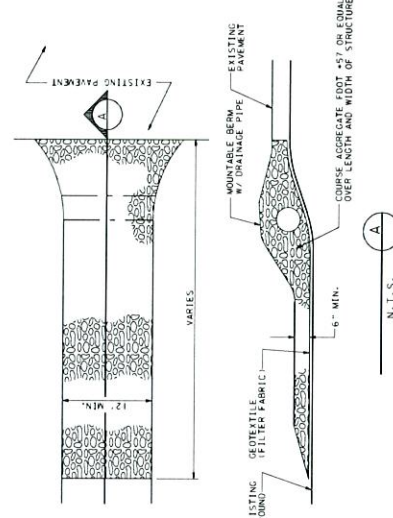
b) The Contractor shall Provide one Person who's sole responsibility will be Inspection, Maintenance and any Upgrades needed of Erosion Control Devices a Minimum of 4 Hours Per Contract Day.

6. INSPECTION

a) The Project Engineer shall be responsible for completing the weekly inspection report forms and submission of the forms to County Construction Office on a monthly basis. Please note that this form must be completed after any 0.25" rainfall. It is the Project Engineer's responsibility to maintain rain gauges on the project site and record weekly rainfall.

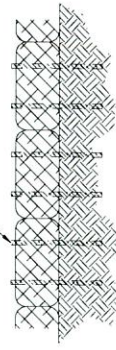
7. PERMITS

SFWDG ERP

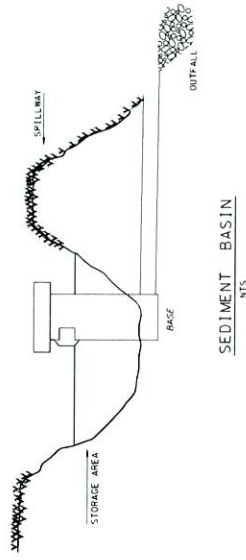


N.T.S.  
SECTION A-A  
STABILIZED CONSTRUCTION EXIT

NOTE: THIS BALE SHALL BE PLACED IN THE DRAINAGE CHANNEL AND SHALL BE MAINTAINED IN THE CHANNEL AS REQUIRED TO MAINTAIN PROPER ALIGNMENT.



N.T.S.  
SYNTHETIC BALES SEDIMENT BARRIER



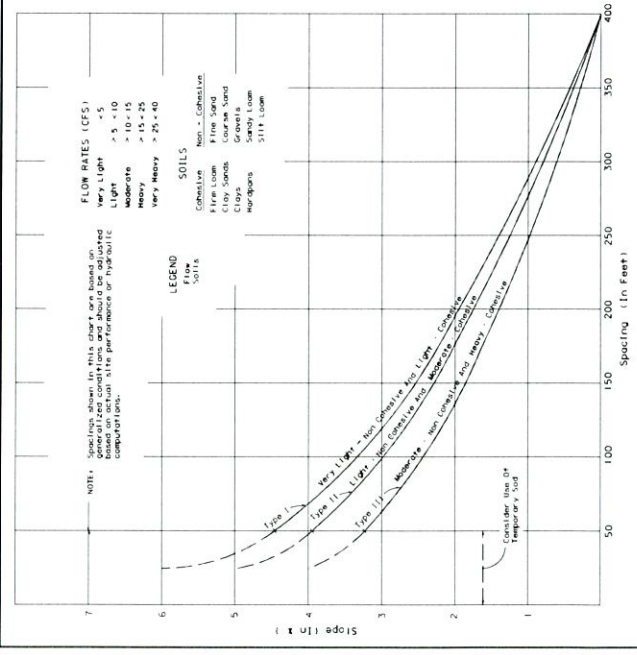
N.T.S.  
SEDIMENT BASIN

DATE	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

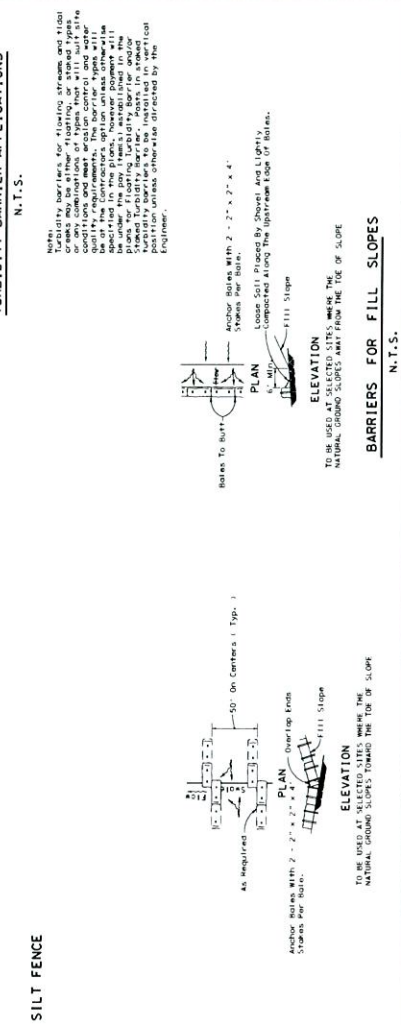
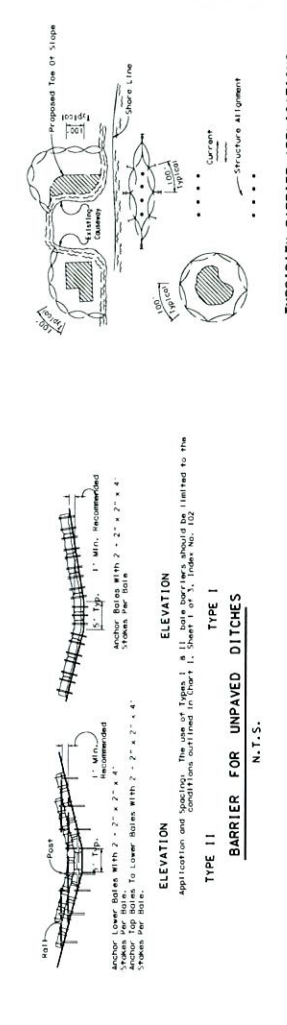
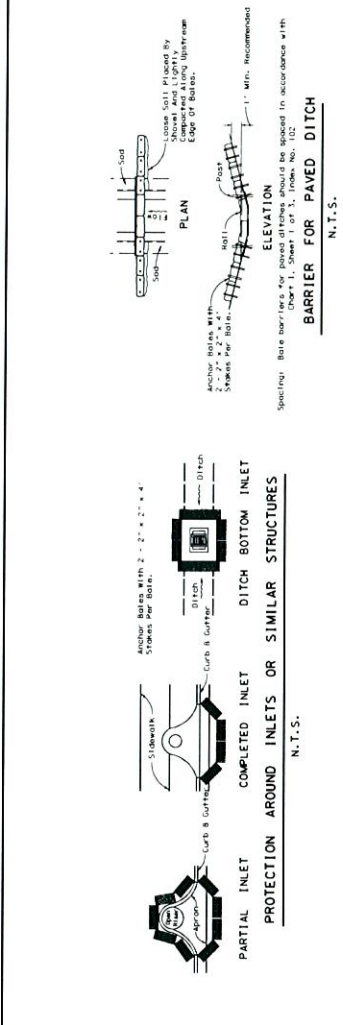
  

TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT		COLLIER BOULEVARD (C.R. 95J)		SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	STORM WATER POLLUTION PREVENTION PLAN	
95J	COLLIER	68056	186	

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 jpernell



**CHART I**  
**RECOMMENDED SPACING FOR SYNTHETIC BALES AND BALE TYPE BARRIERS AND TYPE III SILT FENCE**



TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT		COLLIER BOULEVARD (C.R. 98D)	
ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SHEET NO.
951	COLLIER	68056	187

**PROTECTION AROUND INLETS OR SIMILAR STRUCTURES**  
 N.T.S.

**PARTIAL INLET**  
 Curb & Gutter

**COMPLETED INLET**  
 Curb & Gutter

**DITCH BOTTOM INLET**  
 Ditch

Anchor Bales with 2' x 2' x 4' Spacing Per Bale.

**TURBIDITY BARRIER APPLICATIONS**  
 N.T.S.

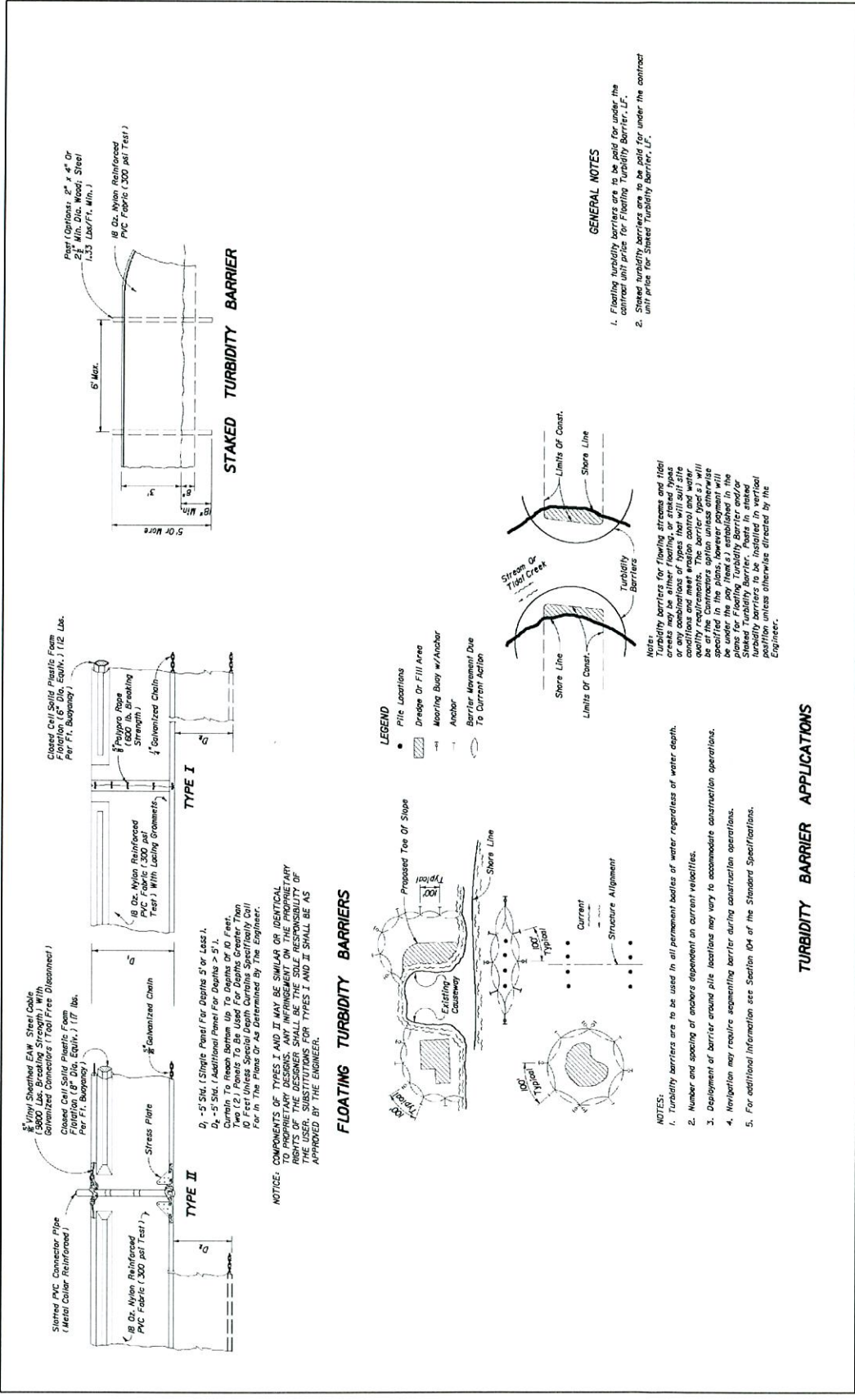
**TYPE I**  
**BARRIER FOR UNPAVED DITCHES**  
 N.T.S.

Application and Spacing: The use of Type I, II, and III barriers should be limited to the conditions outlined in Part I, Sheet 1 of 3, Index No. 802

Anchor Bales with 2' x 2' x 4' Spacing Per Bale.

**TYPE III SILT FENCE**  
 N.T.S.

Note: Silt fence to be used for under the contract unit price for Standard Silt Fence (S.F.).



REVISIONS		DESCRIPTION		DATE	

<b>CH2MHILL</b> 5800 Peachtree Dunwoody Road, Suite 500 Atlanta, Georgia 30340 P.E. License No. 55060		TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT	COUNTY: COLLIER FINANCIAL PROJECT ID: 68056
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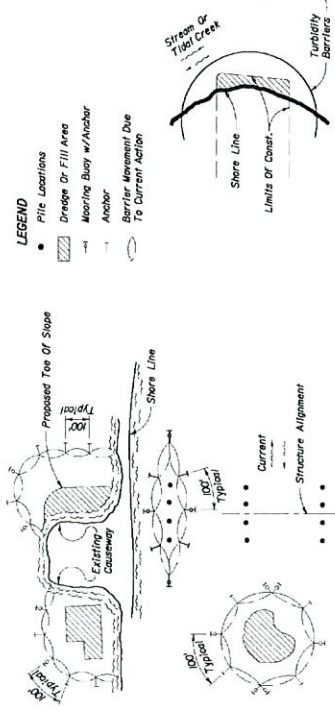
COLLEGER BOULEVARD (C.R. 95D) STORM WATER POLLUTION PREVENTION PLAN	SHEET NO. 188
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**TURBIDITY BARRIER APPLICATIONS**

- GENERAL NOTES**
- Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF.
  - Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

Notes: Turbidity barriers for flowing streams and tidal creeks shall be installed in the water column or on any combination of types that will suit site conditions and meet erosion control and water quality objectives. The design and construction shall be at the Contractor's option unless otherwise specified in the plans, however payment will be under the pay items as established in the Standard Specifications. Parts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

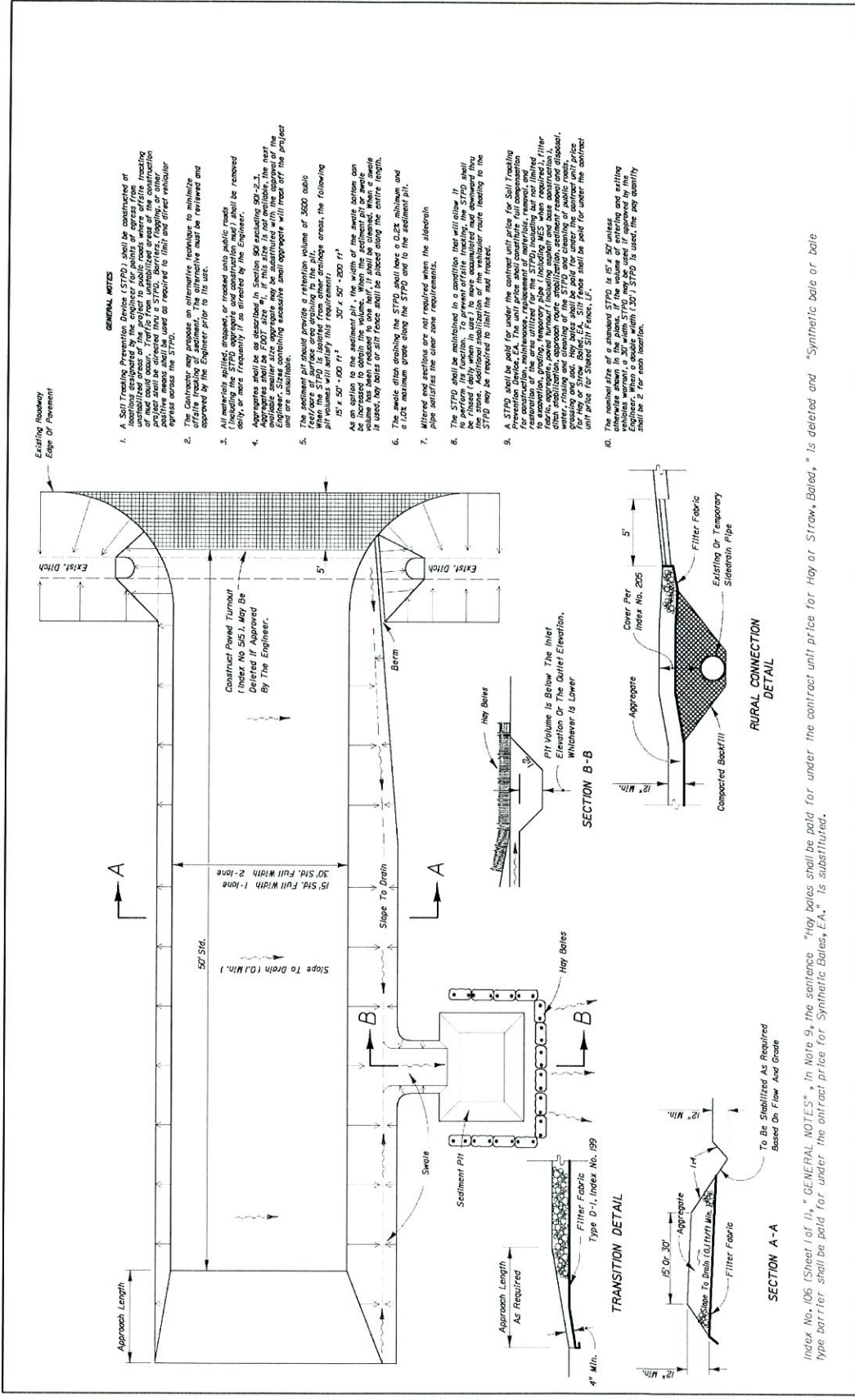
- NOTES:**
- Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
  - Number and spacing of anchors dependent on current velocities.
  - Deployment of barrier around pile locations may vary to accommodate construction operations.
  - Navigation may require segmenting barrier during construction operations.
  - For additional information see Section 04 of the Standard Specifications.



**FLOATING TURBIDITY BARRIERS**

**NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.**

D<sub>1</sub> - 5' Std. (Single Panel For Depths 5' or Less).  
 D<sub>2</sub> - 5' Std. (Additional Panel For Depths > 5').  
 Turnout Length: 10 Feet.  
 Turnout Panel: To Be Used For Turns Greater Than 10 Feet Unless Special Depth Curvature Specifically Call For. In The Plans Or As Determined By The Engineer.



- GENERAL NOTES**
1. Soil Trading Requirements: The Storm Water Pollution Prevention Plan (SWPPP) shall be constructed of unutilized areas of the project to public roads where off-site trading is required. The SWPPP shall be constructed of unutilized areas of the project to public roads where off-site trading is required. The SWPPP shall be constructed of unutilized areas of the project to public roads where off-site trading is required.
  2. The SWPPP shall be constructed of unutilized areas of the project to public roads where off-site trading is required. The SWPPP shall be constructed of unutilized areas of the project to public roads where off-site trading is required.
  3. All materials, installed, removed, or tracked onto public roads (including the SWPPP aggregate and construction mat) shall be removed daily, or more frequently if so directed by the Engineer.
  4. Aggregate shall be as specified in Section 800 including 800-2.1. The available smaller size aggregate may be substituted with the approval of the Engineer. Substituting successive small aggregate will meet off the project and are unallowable.
  5. The settlement pit should provide a retention volume of 3000 cubic feet. The SWPPP shall be constructed of unutilized areas of the project to public roads where off-site trading is required. The SWPPP shall be constructed of unutilized areas of the project to public roads where off-site trading is required.
- As an option to the settlement pit, the width of the swale portion can be increased to obtain the volume. When the settlement pit or swale is used, hay bales or silt fence shall be placed along the entire length. The swale ditch sloping the SWPPP shall have a 0.3% minimum and a 1.0% maximum grade along the SWPPP and to the settlement pit.
- Hay bales are not required when the settlement pit is used to stabilize the area.
- The SWPPP shall be maintained in a condition that will allow it to be placed daily when in use. To be maintained and construct thru the site. Additional stabilization of the vehicular route leading to the SWPPP may be required to limit the road travel.
- A SWPPP shall be paid for under the contract unit price for Soil Trading for construction stabilization. The SWPPP shall be constructed of unutilized areas of the project to public roads where off-site trading is required. The SWPPP shall be constructed of unutilized areas of the project to public roads where off-site trading is required.
- The SWPPP shall be maintained in a condition that will allow it to be placed daily when in use. To be maintained and construct thru the site. Additional stabilization of the vehicular route leading to the SWPPP may be required to limit the road travel.
- A SWPPP shall be paid for under the contract unit price for Soil Trading for construction stabilization. The SWPPP shall be constructed of unutilized areas of the project to public roads where off-site trading is required. The SWPPP shall be constructed of unutilized areas of the project to public roads where off-site trading is required.
- The SWPPP shall be maintained in a condition that will allow it to be placed daily when in use. To be maintained and construct thru the site. Additional stabilization of the vehicular route leading to the SWPPP may be required to limit the road travel.
- A SWPPP shall be paid for under the contract unit price for Soil Trading for construction stabilization. The SWPPP shall be constructed of unutilized areas of the project to public roads where off-site trading is required. The SWPPP shall be constructed of unutilized areas of the project to public roads where off-site trading is required.

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

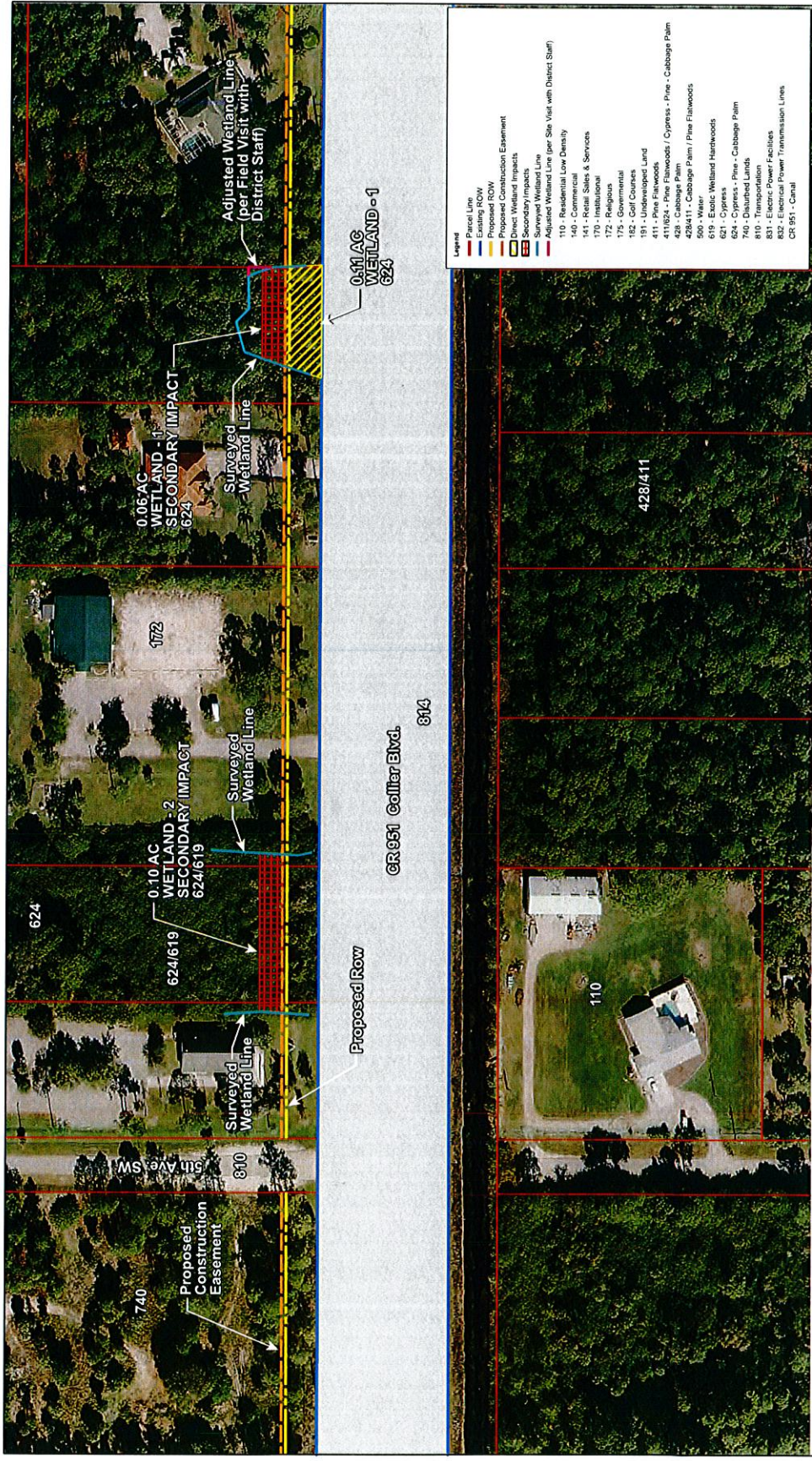
  

<b>CH2MHILL</b> 5400 Parkway Blvd., Suite 500 Dallas, TX 75244-1715 Certifications of Authorization: 000002 Engineering P.E. License No. 59690		TRANSPORTATION ENGINEERING AND CONSTRUCTION MANAGEMENT DEPARTMENT	COLLIER	68036	1/23/2009
ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
951	COLLIER	68036			

<b>COLLIER BOULEVARD (C.R. 95D)</b>		SHEET NO.
<b>STORM WATER POLLUTION PREVENTION PLAN</b>		189

Index No. 006 (Sheet 1 of 1). "GENERAL NOTES" in Note 9, the sentence "Hay bales shall be paid for under the contract unit price for Hay or Straw, Baled," is deleted and "Synthetic bales or bale type barrier shall be paid for under the contract price for Synthetic Bales, E.A." is substituted.



**Legend**

- Parcel Line
- Existing ROW
- Proposed ROW
- Construction Easement
- Direct Wetland Impacts
- Secondary Impacts
- Surveyed Wetland Line
- Adjusted Wetland Line (per Site Visit with District Staff)

110 - Residential Low Density  
 141 - Commercial  
 172 - Religious  
 175 - Governmental  
 182 - Golf Courses  
 191 - Undeveloped Land  
 411 - Pine Flatwoods  
 411/624 - Pine Flatwoods / Cypress - Pine - Cabbage Palm  
 428/411 - Cabbage Palm / Pine Flatwoods  
 500 - Water  
 619 - Exotic Wetland Hardwoods  
 621 - Cypress  
 624 - Cypress - Pine - Cabbage Palm  
 810 - Paused Lands  
 831 - Electric Power Facilities  
 832 - Electrical Power Transmission Lines  
 CR 851 - Canal



**Wetland Impacts**  
 Collier Blvd.  
 Sheet 1/3  
 Golden Gate Blvd to Golden Gate Canal



0 50 100 Feet  
1 inch equals 100 feet

NORTH

Wetland Impacts  
Collier Blvd.  
Sheet 2/3

Golden Gate Blvd to Golden Gate Canal

**Legend**

- Parcel Line
- Existing ROW
- Proposed ROW
- Proposed Construction Easement
- Direct Wetland Impacts
- Secondary Impacts
- Secondary Impacts Line
- Adjusted Wetland Line (per Site Visit with District Staff)
- Adjusted Wetland Line (per Site Visit with District Staff)

**110 - Residential Low Density**

**141 - Retail Sales & Services**

**170 - Institutional**

**172 - Religious**

**182 - Governmental**

**183 - Governmental**

**191 - Undeveloped Land**

**411 - Pine Flatwoods**

**411/624 - Pine Flatwoods / Cypress - Pine - Cabbage Palm**

**428/411 - Cabbage Palm / Pine Flatwoods**

**428/411 - Cabbage Palm / Pine Flatwoods**

**619 - Exotic Wetland Herbaceous**

**621 - Cypress**

**624 - Cypress - Pine - Cabbage Palm**

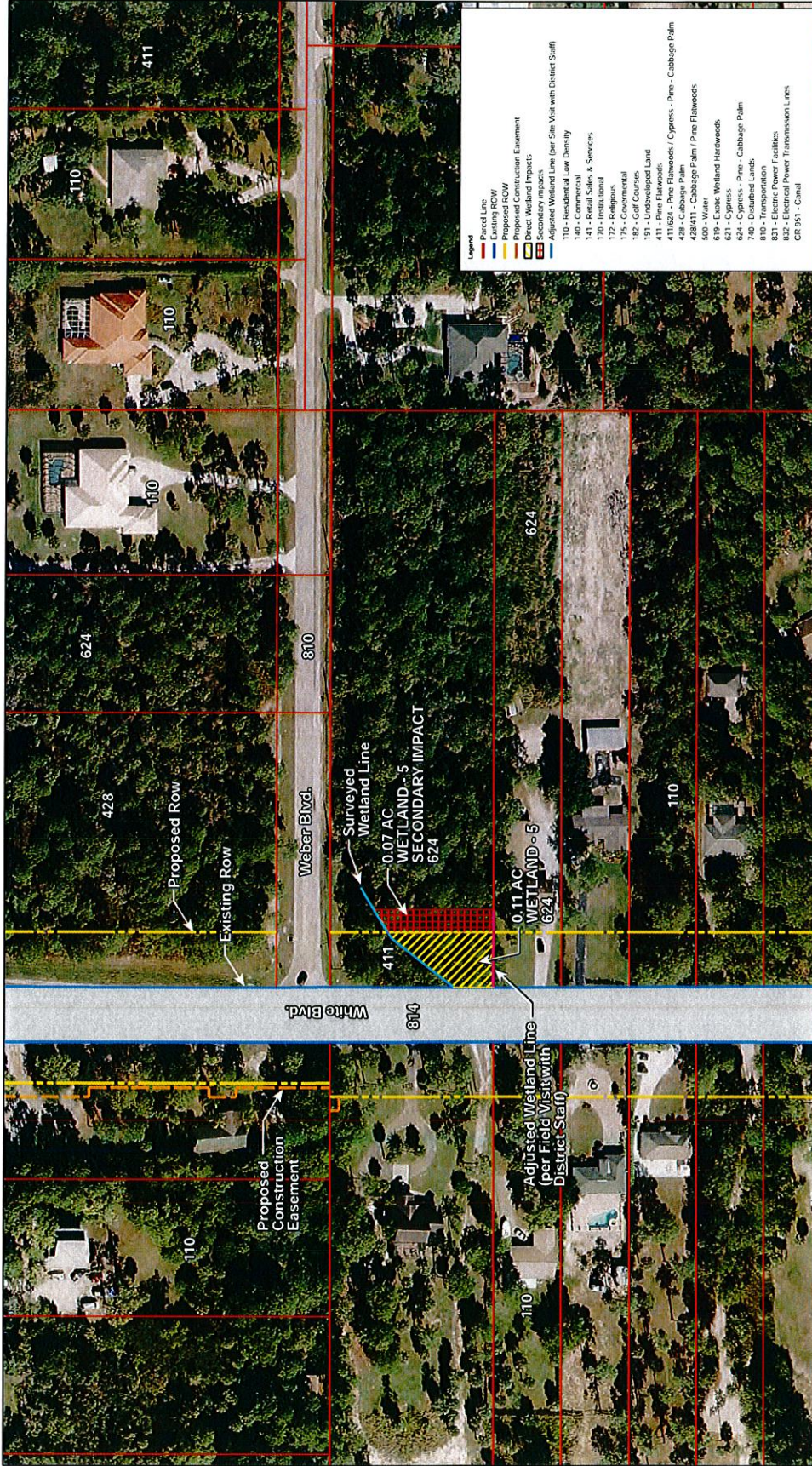
**740 - Disturbed Lands**

**810 - Transportation**

**831 - Electric Power Facilities**

**831 - Electric Power Transmission Lines**

**CR 951 - Canal**



**Wetland Impacts**  
Collier Blvd.  
Sheet 3/3

Golden Gate Blvd to Golden Gate Canal

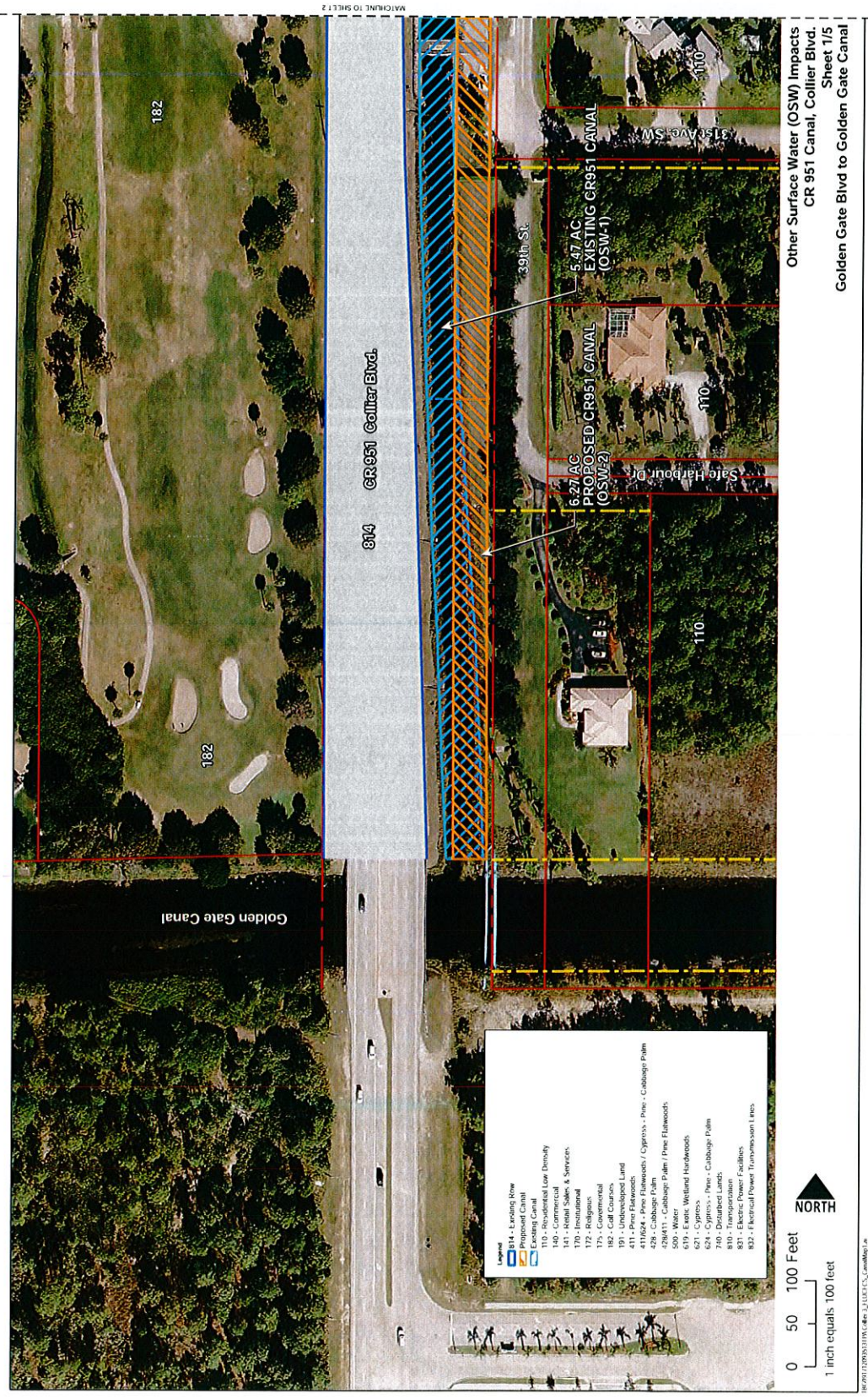
0 50 100 Feet

1 inch equals 100 feet

**NORTH**

16200117050117001.dwg 11/10/2015 11:05:03 AM WetlandMap.dwg

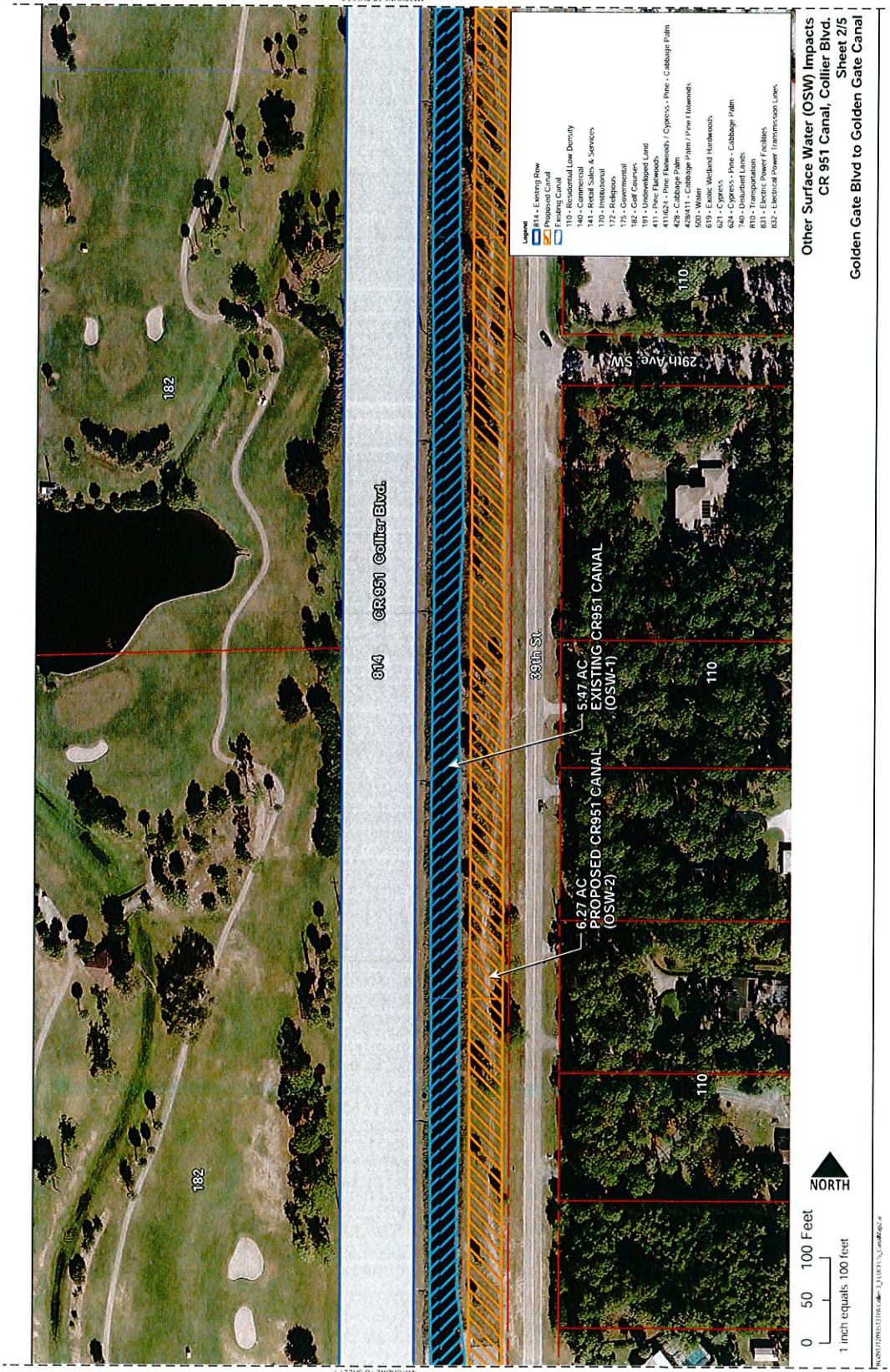




Other Surface Water (OSW) Impacts  
 CR 951 Canal, Collier Blvd.  
 Sheet 1/5  
 Golden Gate Blvd to Golden Gate Canal

Exhibit 3.0  
 Application No. 070809-12  
 4 of 8

- Legend
- 814 - Existing Flow
- 110 - Residential Low Density
- 140 - Commercial
- 141 - Retail Sales & Services
- 112 - Religious
- 175 - Governmental
- 182 - Golf Courses
- 191 - Undeveloped Land
- 199 - Agriculture
- 411824 - Pine Oaks / Cypress / Pine - Cabbage Palm
- 428 - Cabbage Palm / Pine Flattwoods
- 429 - Water / Wetland / Hardwoods
- 627 - Cabbage Palm / Pine - Cabbage Palm
- 628 - Cypress / Pine - Cabbage Palm
- 740 - Disturbed Lands
- 810 - Transportation
- 811 - Electric Power Facilities
- 822 - Electric Power Transmission Lines

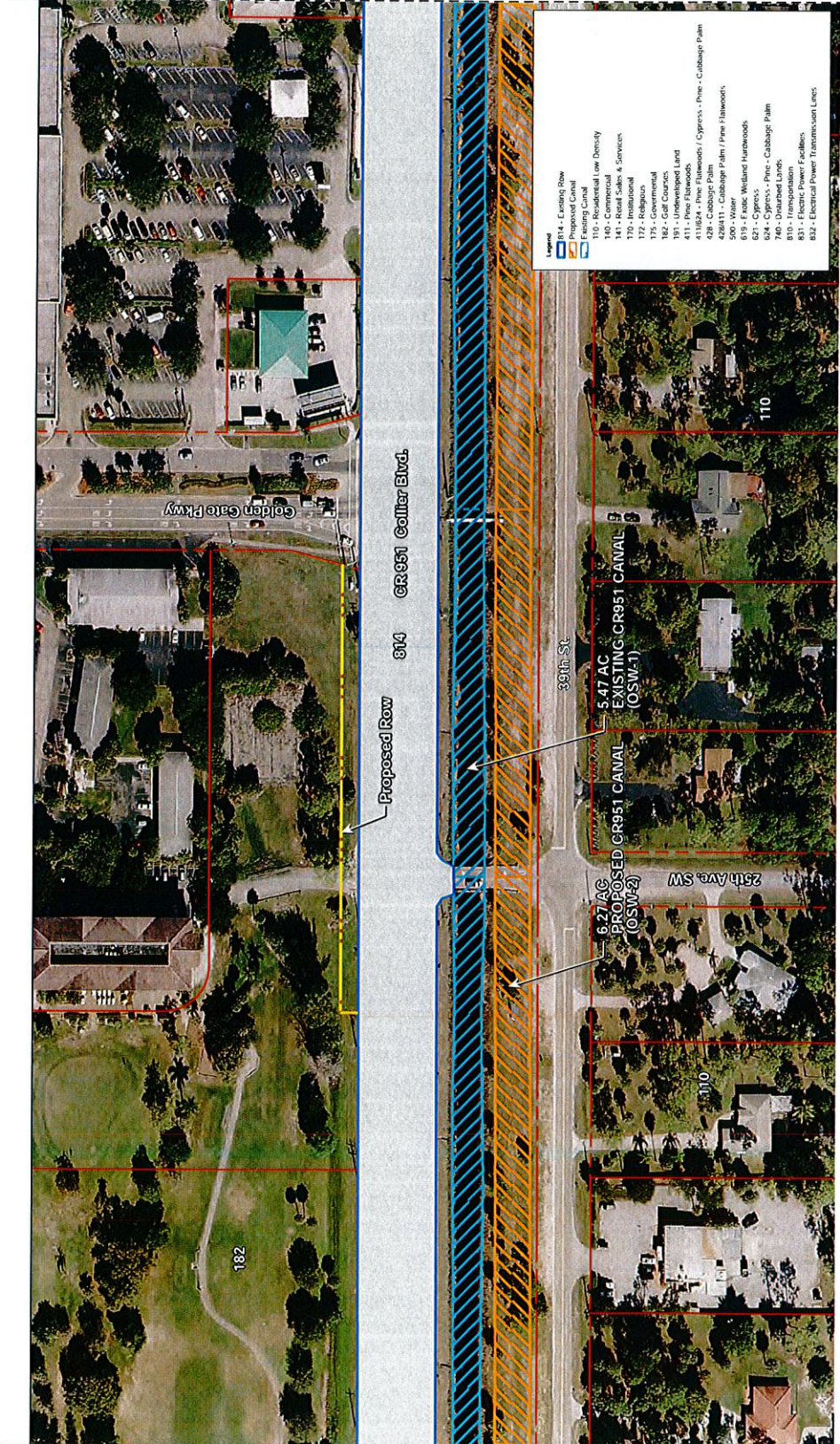


Other Surface Water (OSW) Impacts  
 CR 951 Canal, Collier Blvd.  
 Sheet 2/5  
 Golden Gate Blvd to Golden Gate Canal



- Legend**
- B14 - Existing Flow
  - Proposed Canal
  - 110 - Residential
  - 110 - Commercial
  - 140 - Commercial
  - 141 - Retail Sales & Services
  - 170 - Institutional
  - 172 - Religious
  - 182 - Golf Courses
  - 182 - Golf Courses
  - 191 - Undeveloped Land
  - 411 - Pine Flankwoods
  - 422 - Pine Flankwoods / Cypress - Pine - Cabbage Palm
  - 428411 - Cabbage Palm / Pine Flankwoods
  - 500 - Water
  - 619 - Exotic Wetland Hardwoods
  - 621 - Cypress - Pine - Cabbage Palm
  - 740 - Disturbed Lands
  - 810 - Transportation
  - 831 - Electric Power Facilities
  - 832 - Electric Power Transmission Lines

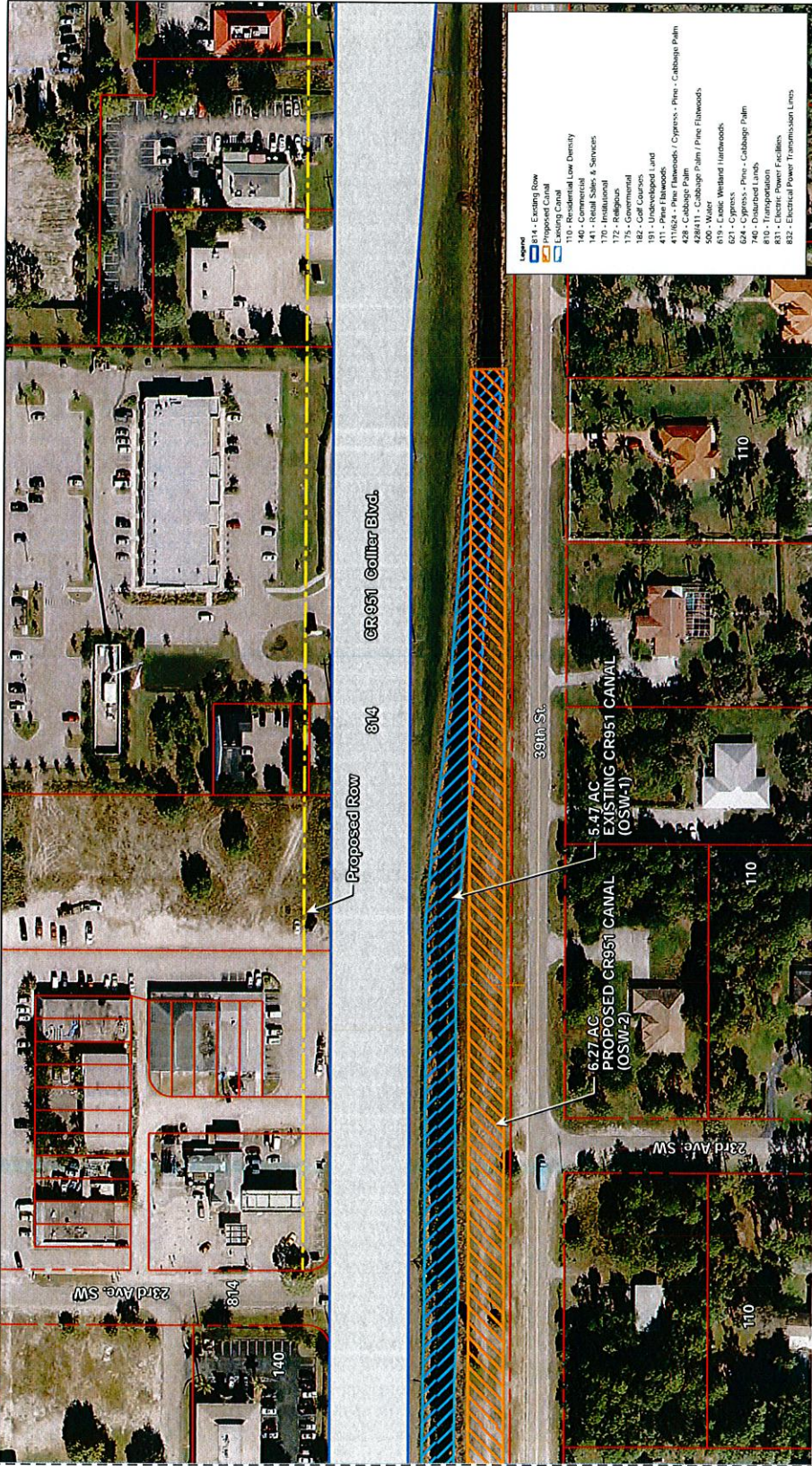
**Other Surface Water (OSW) Impacts**  
 CR 951 Canal, Collier Blvd.  
 Sheet 3/5  
 Golden Gate Blvd to Golden Gate Canal



- Legend**
- Existing Row
  - Proposed Canal
  - Existing Canal
  - 110 - Residential Low Density
  - 140 - Commercial
  - 141 - Retail Sales & Services
  - 170 - Institutional
  - 175 - Governmental
  - 182 - Golf Courses
  - 191 - Undeveloped Land
  - 411 - Pine Forests
  - 428 - Cabbage Palm / Pine Forests
  - 428411 - Cabbage Palm / Pine Forests
  - 500 - Water
  - 619 - Public Wetland Woodlands
  - 624 - Cypress - Pine - Cabbage Palm
  - 746 - Disturbed Lands
  - 810 - Transportation
  - 831 - Electric Power Facilities
  - 832 - Electric Power Transmission Lines

**Other Surface Water (OSW) Impacts**  
**CR 951 Canal, Collier Blvd.**  
 Sheet 4/5  
**Golden Gate Blvd to Golden Gate Canal**







5747 North Andrews Way  
Fort Lauderdale Florida 33309  
Telephone 954.642.2427 888.501.1707  
Fax 866.433.4057

October 1, 2012

Ms. Laura Layman  
Supervisor - Environmental Analyst  
South Florida Water Management District  
2301 McGregor Boulevard  
Fort Myers, FL 33901

**Re: *SFWMD Permit Application No. 070809-12***  
***Project: Collier Boulevard – Golden Gate Main Canal to Golden Gate Boulevard***  
***Panther Island Mitigation Bank Letter of Commitment***

Dear Ms. Layman:

This is to confirm that Collier County Government is purchasing 1.36 freshwater forested mitigation bank credits from the Panther Island Mitigation Bank for the above referenced project. These credits are reserved accordingly.

Please do not hesitate to call if you have any questions or need further information.

Sincerely,

Desmond Duke

cc: Karyn Allman, SFWMD  
Stephen Collins, Panther Island Mitigation Bank  
Angela Dalsis, CH2M HILL  
Marlene Messam, Collier County Government

South Florida Water Management District

Work Schedule Requirements

Application No : 070809-12

Page 1 of 1

Mitigation Plan ID: MIT BANK CREDITS

Activity	Due Date
SUBMIT MITIGATION BANK DOCUMENTATION	31-JAN-13

**Application No. 070809-12**  
**Permit No. 11-03184-P**  
**Collier Boulevard – Golden Gate Main**  
**Canal to Golden Gate Boulevard**

**Exhibits by Reference:**

Exhibit 3.3 Wood Stork Habitat Management Plan (Incorporated by Reference)

Exhibit 3.4 Big Cypress Fox Squirrel Management Plan (Incorporated by Reference)



## STAFF REPORT DISTRIBUTION LIST

COLLIER BLVD - GOLDEN GATE MAIN CANAL TO GOLDEN GATE BLVD

**Application No:** 070809-12

**Permit No:** 11-03184-P

### INTERNAL DISTRIBUTION

- X Jessica White, P.E.
- X Karyn Allman
- X Laura Layman
- X Daniel F. Waters, P.E.
- X A. Bain
- X A. Waterhouse
- X Bill Foley
- X ERC Engineering
- X ERC Environmental
- X Fort Myers Backup File
- X P. Flood
- X R. Valera

### EXTERNAL DISTRIBUTION

- X Permittee - Collier County Board Of County Commissioners
- X Agent - C H 2 M Hill
- X Env Consultant - C H 2 M Hill
- X Owner - Collier County Board Of County Commissioners

### GOVERNMENT AGENCIES

- X Div of Recreation and Park - District 4 - FDEP

### OTHER INTERESTED PARTIES

- X Audubon of Florida - Charles Lee