

DEPARTMENT OF THE ARMY JACKSONVILLE DISTRICT CORPS OF ENGINEERS COCOA REGULATORY FIELD OFFICE 400 HIGH POINT DRIVE, SUITE 600

400 HIGH POINT DRIVE, SUITE 6 COCOA, FLORIDA 32926

Cocoa Permits Section SAJ-2007-5634(IP-AWP)

SEP 1 9 2008

RECEIVED

SEP 2 2 2008

ENVIRONMENTAL MANAGEMENT OFFICE

Florida Department of Transportation, District 3 Attn: Joy Giddens

P.O. Box 607

Chipley, Florida 32428

Dear Ms. Giddens:

The U.S. Army Corps of Engineers (Corps) is pleased to enclose the Department of the Army permit, which should be available at the construction site. Work may begin immediately but the Corps must be notified of:

- a. The date of commencement of the work,
- b. The dates of work suspensions and resumptions of work, if suspended over a week, and
 - c. The date of final completion.

This information should be mailed to the Enforcement Section of the Regulatory Division of the Jacksonville District at Post Office Box 4970, Jacksonville, Florida 32232-0019. The Enforcement Section is also responsible for inspections to determine whether Permittees have strictly adhered to permit conditions.

IT IS NOT LAWFUL TO DEVIATE FROM THE APPROVED PLANS ENCLOSED.

Sincerely,

for David S. Hobbie

Chief, Regulatory Division

Enclosures

Copies Furnished:

FWS, Panama City (electronically) EPA, Atlanta (electronically) NMFS, St. Pete (electronically) CESAJ-RD-PE

DEPARTMENT OF THE ARMY PERMIT

Permittee: Florida Department of Transportation, District 3

Attn: Joy Giddens

P.O. Box 607

Chipley, Florida 32428

RECEIVED

Permit No: SAJ-2007-5634 (IP-AWP)

SEP 15 2008

Issuing Office: U.S. Army Engineer District, Jacksonville

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: The placement of clean fill material into 4.14 acres of waters of the United States (wetlands) for the replacement of the existing State Road 10 (SR-10)(US-90) bridge over the Perdido River and 1 acre of temporary impacts associated with the conversion of forested wetlands to herbaceous wetlands due to shading by the new structure. (FPN # 411118-1-52-01). The work described above is to be completed in accordance with the 3 attachments affixed at the end of this permit instrument.

<u>Project Location</u>: The project is the replacement of the existing SR-10 (US-90) bridge over the Perdido River. The project is located in Sections 10 and 15, Township 01 South, Range 32 West, and Section 15, Township 06 South, Range 06 East, Escambia County, Florida.

<u>Directions to site</u>: From the intersection of US-90 and Mobile Highway proceed west on US-90 approximately 3.5 miles to the Perdido River crossing.

Latitude & Longitude: Latitude 30.5221 North Longitude 87.4473 West

PERMITTEE: FDOT - District 3

PAGE 2 of 10

Permit Conditions

General Conditions:

- 1. The time limit for completing the work authorized ends on **August 29, 2013**. If you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.
- 2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
- 3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
- 4. If you sell the property associated with this permit, you must obtain the signature and the mailing address of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
- 5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.
- 6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to

PERMITTEE: FDOT - District 3

PAGE 3 of 10

ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

- 1. The Permittee shall use only clean fill material for this project. The fill material shall be free from items such as trash, debris, automotive parts, asphalt, construction materials, concrete block with exposed reinforcement bars, and soils contaminated with any toxic substance, in toxic amounts in accordance with Section 307 of the Clean Water Act.
- 2. Wetland impacts for this project will be mitigated through the Northwest Florida Umbrella, Watershed-Based, Regional Mitigation Plan (PLAN), as defined in the agreement between the Northwest Florida Water Management District (NWFWMD) and the U.S. Army Corps of Engineers (Corps), Jacksonville District, July 31, 2006. The PLAN defines mitigation for this project as a combination of land acquisition, preservation, and restoration at the Perdido River site identified in section 5.1.4 Perdido River WMA, April 7, 2008 update.
- 3. Within 30 days from the date of initiating the authorized work or 12 months from the effective date of this permit, whichever first occurs, the Permittee shall provide verification to the Corps that 10.3 credits have been deducted from the Perdido River WMA credit ledger. The required verification shall reference this project's permit number (SAJ-2007-5634(IP-AWP)).
- 4. A representative of the Corps will be allowed to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of this permit.
- 5. All reports, documentation and correspondence required by the conditions of this permit shall be submitted to the following address: U.S. Army Corps of Engineers, Regulatory Division, Enforcement Section, P.O. Box 4970, Jacksonville, FL 32232 and US Army Corps of Engineers, Cocoa Regulatory Field Office, Attn: Andrew Phillips, 400 High Point Drive, Suite 600, Cocoa, Florida 32926.

PERMITTEE: FDOT - District 3

PAGE 4 of 10

6. Within 10 days from the date of initiating the authorized work, the Permittee shall provide to the Corps a written notification of the date of commencement of work authorized by this permit.

- 7. Prior to the initiation of any work authorized by this permit, the Permittee shall install erosion control measures around all work areas to prevent the displacement of fill material. Immediately after completion of the final grading of the land surface, all slopes, land surfaces, and filled areas adjacent to wetlands shall be stabilized using sod, degradable mats, or a combination of similar stabilizing materials to prevent erosion. The erosion control measures shall remain in place and be maintained until all authorized work has been completed and the site has been stabilized.
- 8. Within 60 days of completion of the authorized work or at the expiration of the construction window of this permit, whichever occurs first, the Permittee shall submit as-built drawings of the authorized work and a completed As-Built Certification Form (Attachment 3) to the Corps. The drawings shall be signed and sealed by a registered professional engineer and include the following:
- a. A plan view drawing of the location of the authorized work footprint (as shown on the permit drawings) with an overlay of the work as constructed in the same scale as the attached permit drawings (8½-inch by 11-inch). The drawing should show all "earth disturbance," including wetland impacts, water management structures, and any on-site mitigation areas.
- b. List any deviations between the work authorized by this permit and the work as constructed. In the event that the completed work deviates, in any manner, from the authorized work, describe on the As-Built Certification Form the deviations between the work authorized by this permit and the work as constructed. Clearly indicate on the as-built drawings any deviations that have been listed. Please note that the depiction and/or description of any deviations on the drawings and/or As-Built Certification Form does not constitute approval of any deviations by the U.S. Army Corps of Engineers.
 - c. The Department of the Army Permit number.

PERMITTEE: FDOT - District 3

PAGE 5 of 10

d. Include pre- and post-construction aerial photographs of the project site, if available.

Further Information:

- 1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
- (X) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
 - (X) Section 404 of the Clean Water Act (33 U.S.C. 1344).
- () Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
 - 2. Limits of this authorization.
- a. This permit does not obviate the need to obtain other Federal, State, or local authorizations required by law.
- b. This permit does not grant any property rights or exclusive privileges.
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal projects.
- 3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
- a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
- b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.

PERMITTEE: FDOT - District 3

PAGE 6 of 10

c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.

- d. Design or construction deficiencies associated with the permitted work.
- e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- 4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.
- 5. Reevaluation of Permit Decision: This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:
- a. You fail to comply with the terms and conditions of this permit.
- b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).
- c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170)

PERMITTEE: FDOT - District 3

PAGE 7 of 10

accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions: General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

PERMITTEE: FDOT - District 3

PAGE 8 of 10

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

Joy Giddens FOOT Permits Coordinator
(PERMITTEE NAME-PRINTED)

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

(DISTRICT ENGINEER)

Paul L. Grosskruger

Colonel, U.S. Army

District Commander

PERMITTEE: FDOT - District 3

PAGE 9 of 10

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

(TRANSFEREE-SIGNATURE)	(DATE)
	•
(NAME-PRINTED)	
(ADDRESS)	
CITY, STATE, AND ZIP CODE)	

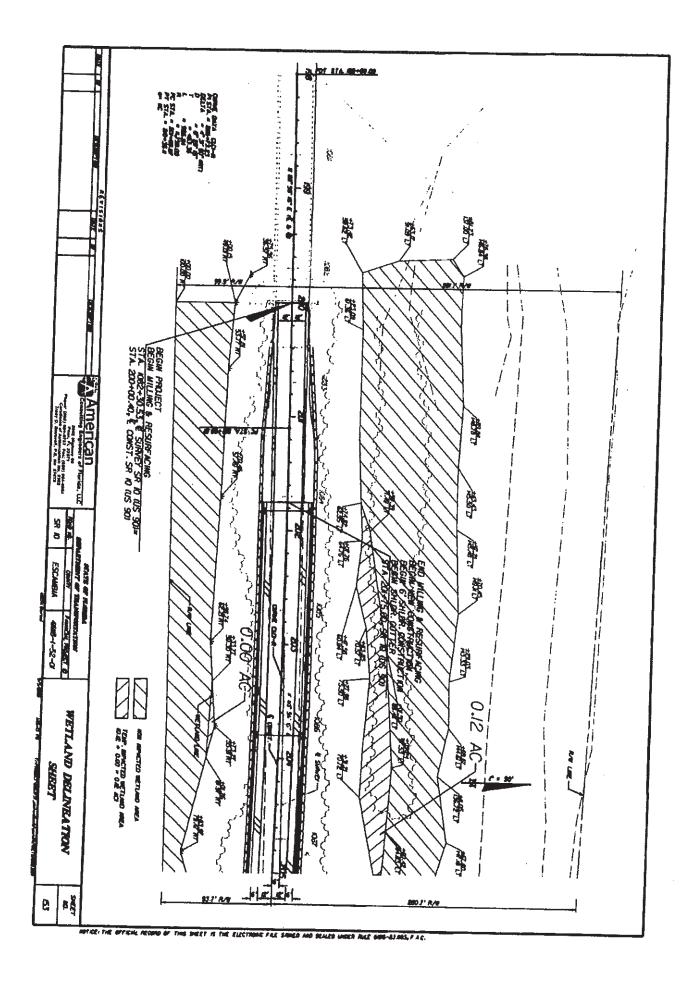
PERMITTEE: FDOT - District 3

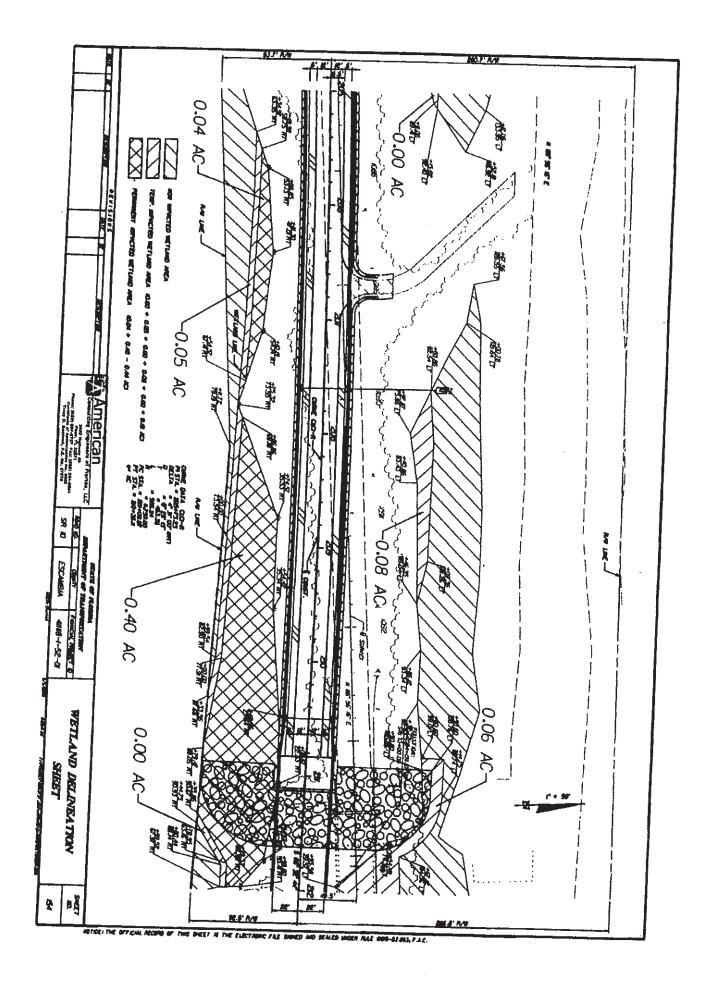
PAGE 10 of 10

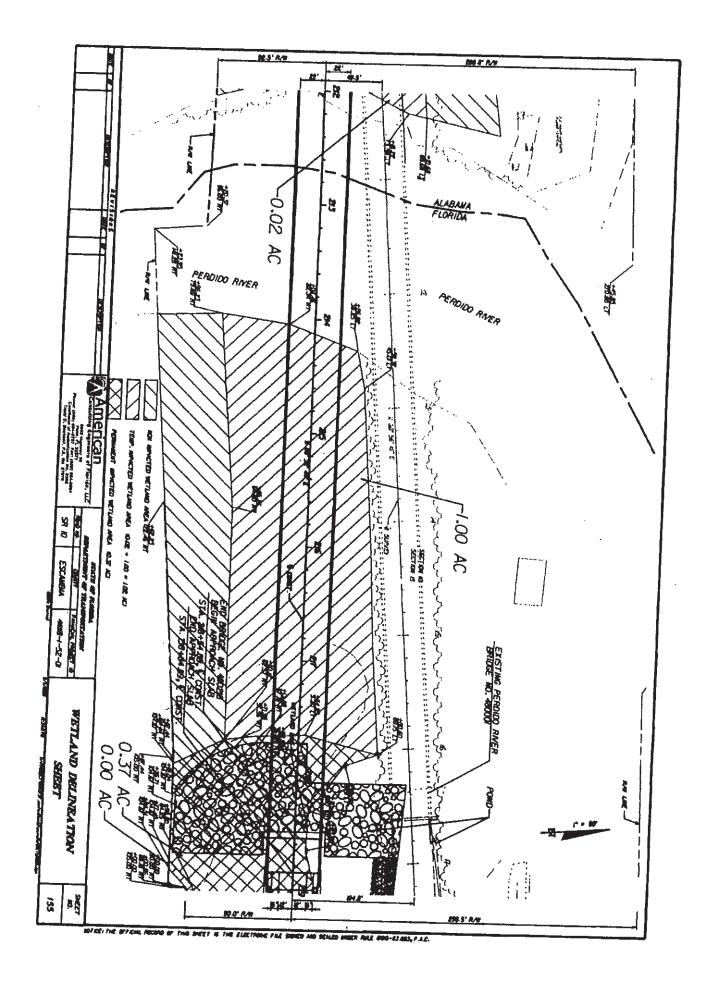
Attachments to Department of the Army Permit Number SAJ-2007-5634(IP-AWP)

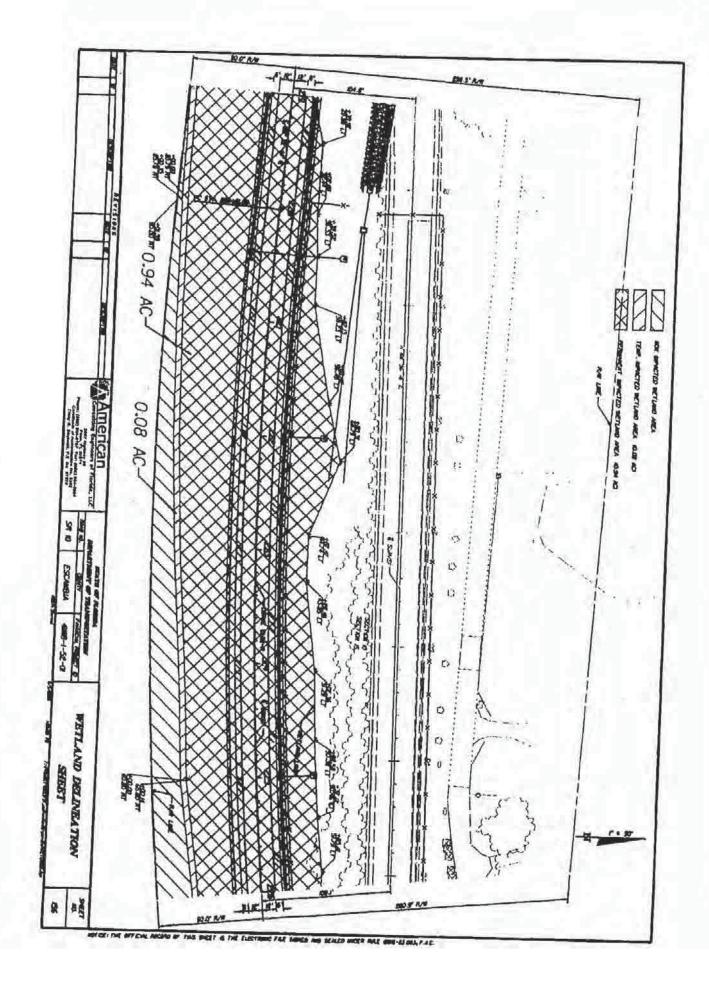
- 1. PERMIT DRAWINGS: 15 pages, dated 5/9/2008
- 2. WATER QUALITY CERTIFICATION: Specific Conditions of the water quality permit/certification in accordance with General Condition number 5 on page 2 of this DA permit. 12 pages.
- 3. As-Built Certification: 1 page

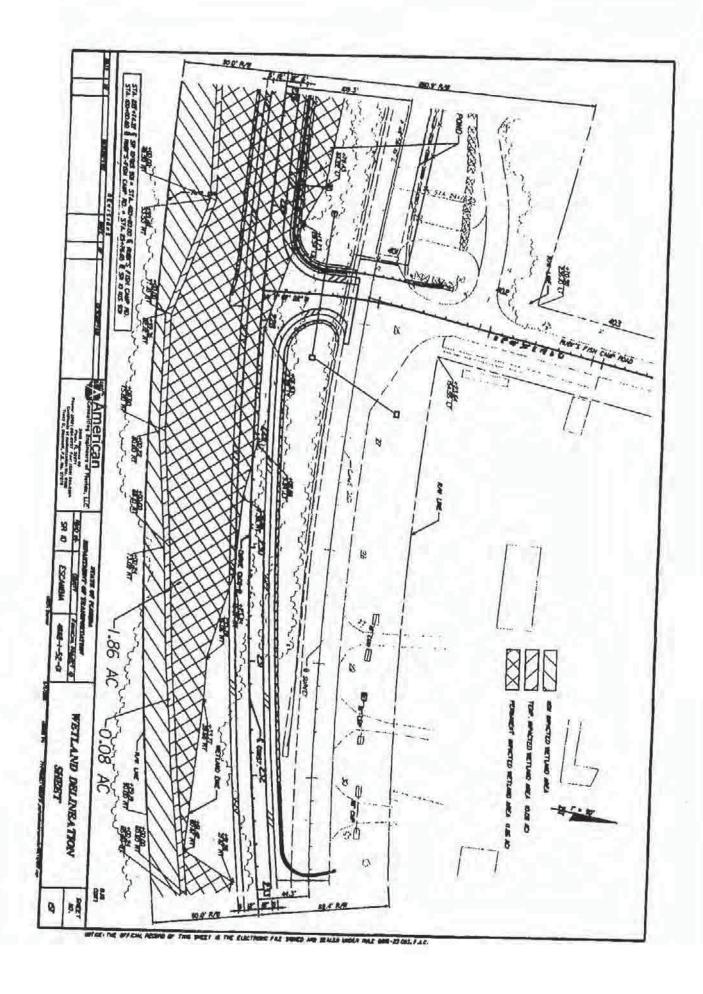
COMPONENTS OF CONTRACT PLANS SET INDEX OF ROADWAY PLANS NEVCE ROADHAY PLANS SIGNING AND PAYEMENT MARKING PLANS STRUCTURE PLANS TACKSONVILLE DISTRICT 800S 3.1 YAM RECEIVED DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID 411118-1-52-01 ESCAMBIA COUNTY, FLORIDA (48010) PROJECT MANAGER: MOJECT LENGTH IS BASED ON & OF CONSTRUCTION BALDWIN COUNTY, ALABAMA LENGTH CONTRACT PLANS STATE OF FLORIDA STATE ROAD NO. 10 LINEAR FEET 4324.90 3783.40 741.50 4524.90 **PROJECT** MILES SH ID NS 901 ares LOCATION OF PROJEC JACKSONVILLE DISTRICT 一八十二年の日本の一日本の DSACE **1** 3 cc. THE REAL ð P METICE: THE OFFICE PECOND OF THIS SHEET IS THE ELECTRONIC FAE SAMED AND SEALED WIDER RALE DAME-23-003, F.A.C. Attachment:

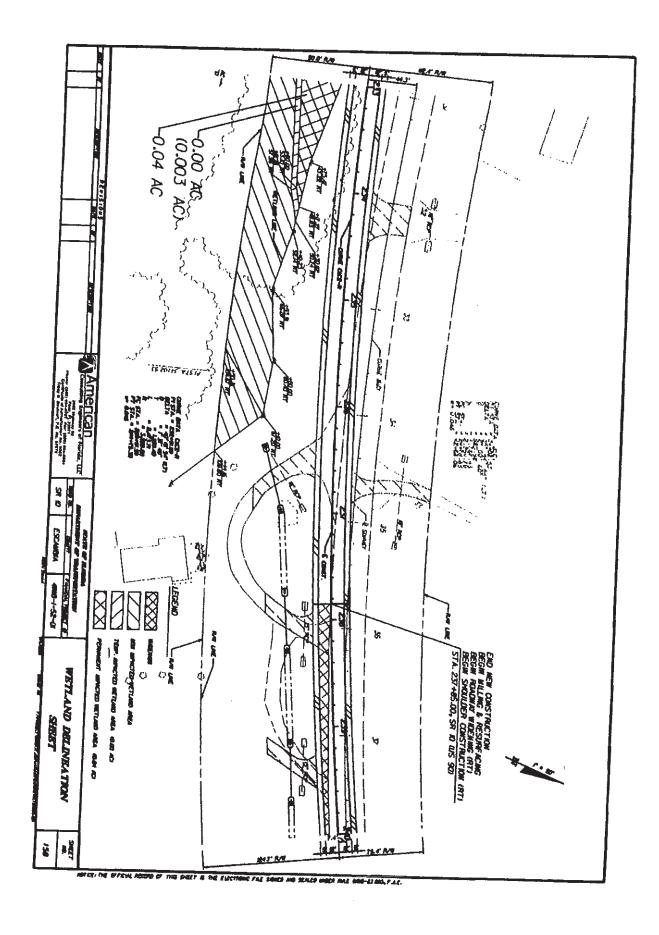


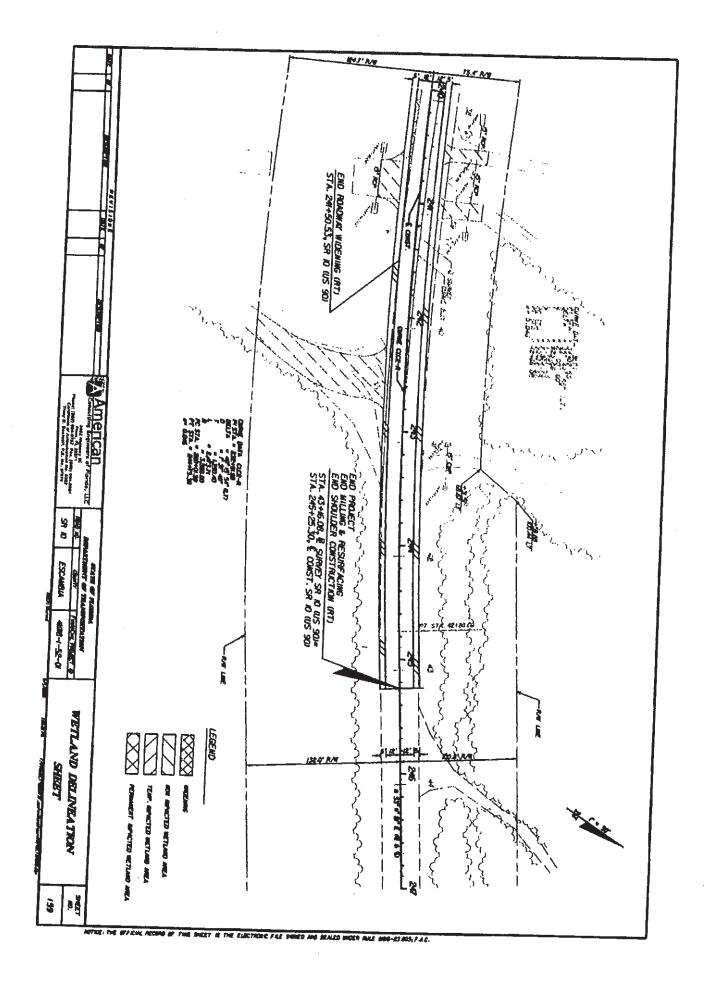














American Consulting Engineers of Florida, LLC

4489 Woodbine Road • Pace, Florida 32571 Tel 850.994.9757 • Fax 850.994.9684 american@ace-fla.com • www.sce-fla.com

Wetland Impacts SR 10 (US 90) OVER PERDIDO RIVER BRIDGE REPLACEMENT

Sheet Totals

01 4455	_	
Sheet 153	Temp. Impacts:	0.12 AC
	Perm. Impacts:	0.00 AC
	, , , , , , , , , , , , , , , , , , ,	0.00710
Sheet 154	Temp. Impacts:	0.19 AC
	Perm. Impacts:	0.44 AC
	· onin impacto,	0.44 AC
Sheet 155	Temp. Impacts:	1.02 AC
	Perm. Impacts:	0.37 AC
Charl 450	- .	
Sheet 156	Temp. Impacts:	0.08 AC
	Perm. Impacts:	0.94 AC
	•	
Sheet 157	Temp. Impacts:	0.08 AC
	Perm. Impacts:	1.86 AC
	· omi impacts.	1.00 AC
Sheet 158	Tomp Impeda	0.00.40
Ollegt 100	Temp. Impacts:	0.00 AC
	Perm. Impacts:	0.04 AC
01		
Sheet 159	Temp. Impacts:	0.00 AC
	Perm. Impacts:	0.00 AC
		V. V V / / V

Project Totals

Temp. Impacts: 1.49 AC Perm. Impacts: 3.65 AC

Total Impacts 5.14 AC

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SEP 15 2008

JACKSONVILLE DISTRICT
USACE

DEPARTMENT OF TRANSPORTATION STATE OF FLORIDA

CONTRACT PLANS

INDEX OF STRUCTURE PLANS

MULACIES 1336

STATE ROAD NO. 10 (US 90) OVER PERDIDO RIVER BRIDGE NO. 480218 FINANCIAL PROJECT ID 411118-1-52-01 ESCAMBIA COUNTY, FLORIDA (48010) BALDWIN COUNTY, ALABAMA

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STRUCTURE PLANS

TO ME SUMMITTED TO:

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American
Consulting Engineers of Florids, LLC PLAS PROMED BY

411 Land O' Labos Bird. Beiss 318
Land O' Labos, Pipride 34838
Phone: (#13) 982-3888 Fox: (#13) 984-1984
Certifiquie of Authorization Mr. 1997
Vendor Mr. 1/7 64385744-061
Centrad No. C-81448

MATE THE STALL OF THEM PLANS AND MANEE COMMENTS AND TO ADMINISTRATION.

FOOT PROJECT MANAGER: BILL HOWELL

SA ID ILS SEE over Persise After Bridge d j ō D. C. 9-6

NOTICE! THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIMED AND SEMES MIDER RALE BOOK-23 COS., F.A.C.

GENERAL MOTES

DESIGN SPECIFICATIONS: FOOT Structures Manuel dated July 2007 (ref. Vol.1, Section 1.6), Subsequent Structures Temporary Design Bulletins February 14, 2007; March 9, 2007; March 27, 2007; April 20, 2007; May 4, 2007 and June 18, 2007. CENERAL SPECIFICATIONS:

Florido Department of Transportation Standard Specifications for Road and Bridge Construction (dated 2007), as amended by contract documents.

DAVIRDNACAT:

Superstructure — Sightly Aggressive
Substructure — Concrete: Estremely Aggressive (Soil — pina.9)
Steel: Estremely Aggressive (Soil — pina.9)

COMOR IE

FUTURE WEARING SURFACE: Design does not include allowance for 15 put.

All concrete shall be in accordance with Section 346. f'c = 3.4 Min. 28-day Compressive Strength (kei) CIP Traffic Railing Barrier Location of Concrete in Structure

V (Special) ₹ II (Bridge Deck) II (Bridge Deck) fc = 4.5 rc = 6.0 Pc = 5.5 Fc = 4.5 Prestressed Ples Substructure CIP Approach Slabs CIP Superstructure

70 =

Prestressed Beams

CUNCRETE COVER:

CIP Superstructure = ?" (Typical encept as noted)

CIP Substructure = 4½" for enternal surfaces cast opainst earth

2" for other suffered surfaces
?" for top of girder padestoss

Concrete covers storm in the plane do not include placement and fabrication toleronces unless shown as "minimum cover". See FDDT Standard Specifications for allowable toleronces.

REINFORCING STEEL: All reinforcing steel shall be ASTN ASIS, Grade 60, Service Stress and Service III loading shall be limited to 24 ks for bent caps.

APPLIED FINISH CONTINC:

A Closes 5 Finish Cooking shall be applied to the partiens of the structures shown on the Surface Finish Detai, see distribit sheet as well as oil exposed surfaces (top, inside and outside) of end bent wingwalds.

PLAN DIMENSIDES
All dimensions in these plans are measured in feet and inches either harizontally or variately unless otherwise notest.

UTILITIES:

Foliocitions of existing ublies, see Plan and Elevation sheets B-03, B-04 and B-05. The ublies shown in the bridge plans are at approximate locations. For additional information refer to the Roadway Plans.

JUNIS IN COMPRETE:
Construction joints will be permitted only of locations indicated on the plans.
Additional construction joints or alterations to those shown shall require approval
of the Engineer.

A SVICE STONE

TAY 11-08 ENGINEER OF RECORD.

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Similar Communication

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SCREDING DECK SLABS: Screed the indige Deck and Approach State to active the Frield (and the Environment from in the plane. Account for therewised deflections due to deck said weight, deck casting sequence, deck forming systems, construction tools and temporary shoring, etc.

STAY IN PLACE DECK FIBBUS:
Design excludes allowance for 20 per over the projected plan area of
the metal forms for the unit emight of metal forms and concrete
required to filthe form flutes.

9

DEMOLITIDA/READYAL OF EXISTING STRUCTURE: Demostion and removal of the existing structure

EXISTING STEEL BEAMS:
Existing steel beams shall be delivered to Tree Langevity CorporationStan Revia – envisinguillaccom
10151 South Loop Road
Pennecoto, FL 37307-8634
Phone (650) 456-6227: Fox (251) 980-6462

LEAD BASED PAINT:
The Controctor is responsible for following the requirements of the Decupational Sofety and Health Administration (IDSNA), the Environmental Protection Agency (EPA) and other governing Authorities when removing point or components coated with lead based point. See the Specifications

PHASING OF WORK:

Work phasing and progression of the work shall conform Traffic Control Plans located in the Roadway Plans. \$

Demosition and removal of the existing structure(s) shall be accomplished ornising impacts to welfends. This well equals the Contractor to adhere to direquirements in the Environmental Funds and aread placing any construction debris within the melland areas. The Contractor will be responsible to retain debris prior to the debris falling into the welfand area. Any debris in the welfand area will be immediately removed.

HAZARDIUS AND NON-HAZARDIUS WASTE:
If how here determined that there is lead pigment on the existing girders in Spon 5. The Constructor shall furnish storage areas, storage contained and of miscellaneous items required for handling and temporary storage of all hazardous and non-hazardous waite material, than-hazardous waite shall be disposed of in accordance with boost sorte and federal large shall be disposed of in accordance with boost sorte and federal large and controllor shall confidently that not feriled to, local landful requirements. The information concerning local requirements. The Deportment is that be responsible for the disposed of hazardous waste.

DESIGN STANDANDS:
The (rathering Design Standards shall be used in this pion set: 189, 420, 2010, 2010, 20189, 20500, 20600, 20601, 20602, 20624, 20900, 21110, 21120 and 21300.

BID ITEM MOTES

for Summary of Bridge Pay Hense, see sheets 2 and 3 of Roadwoy

Payment for incidental lama not specifically covered in individual Bid Items shall be included in the Contract Unit Price for the Bid

J. For Traffic Control Motes, see Roadway Flore

4. Hem Number IID-3 includes removed of the following approximate plan area of axising structures: 24009 square feet - Bridge No. 480001 Administration activities including methods, materials, labor, mark zone profession, equipment and disposed shall be included in the Contract this Price for Bid Hem Alember IIO-3, Removed of Enisting Structures, for limits of removed, use sheet 8-07.

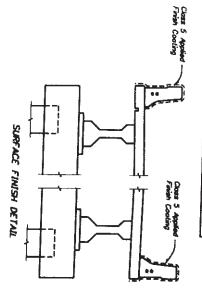
5. The Approach Salo sheets are included with the Bridge Plans, As quantities that are associated with the individual Approach Salos are included with the cauchities for their respective analyse, except for the approach or the approach sociated with the Roseway quantities.

The cost of the deck inserts for fature wildly hargers shad to included in the Confroct Unit Price for Bid flam. Number 400-2-4, Superstructure

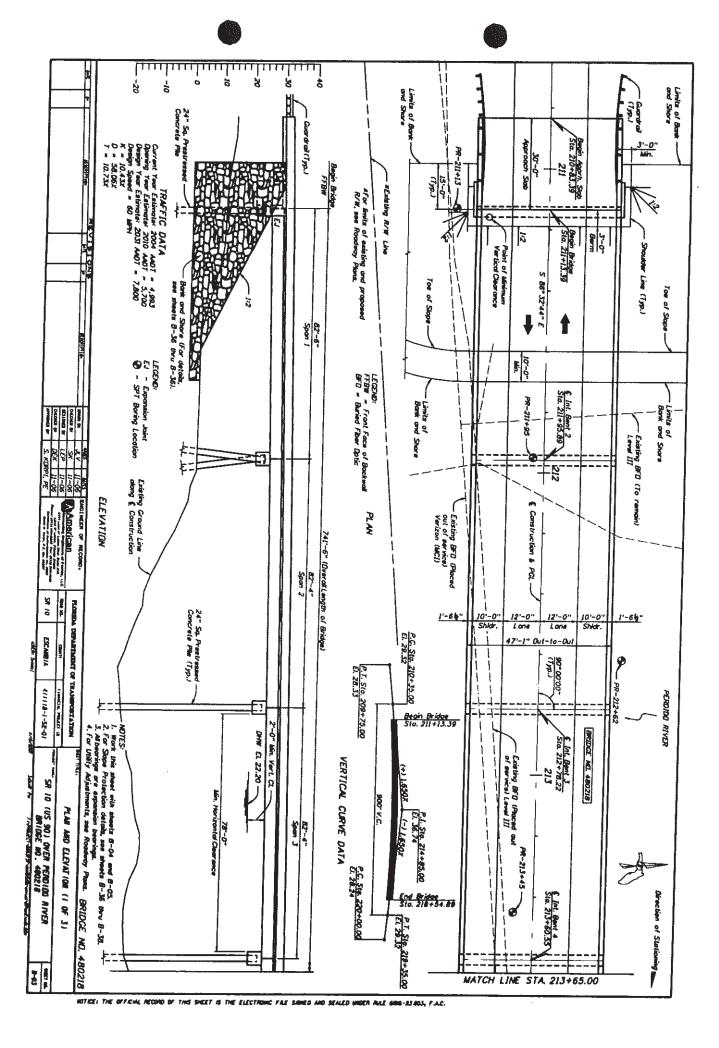
The cost of labor and materials for construction of the expansion joints in the bridge deck shall be included in the Contract Unit Price for Bd (1911 Namber 458-1-1), Bridge Deck Expansion Joint.

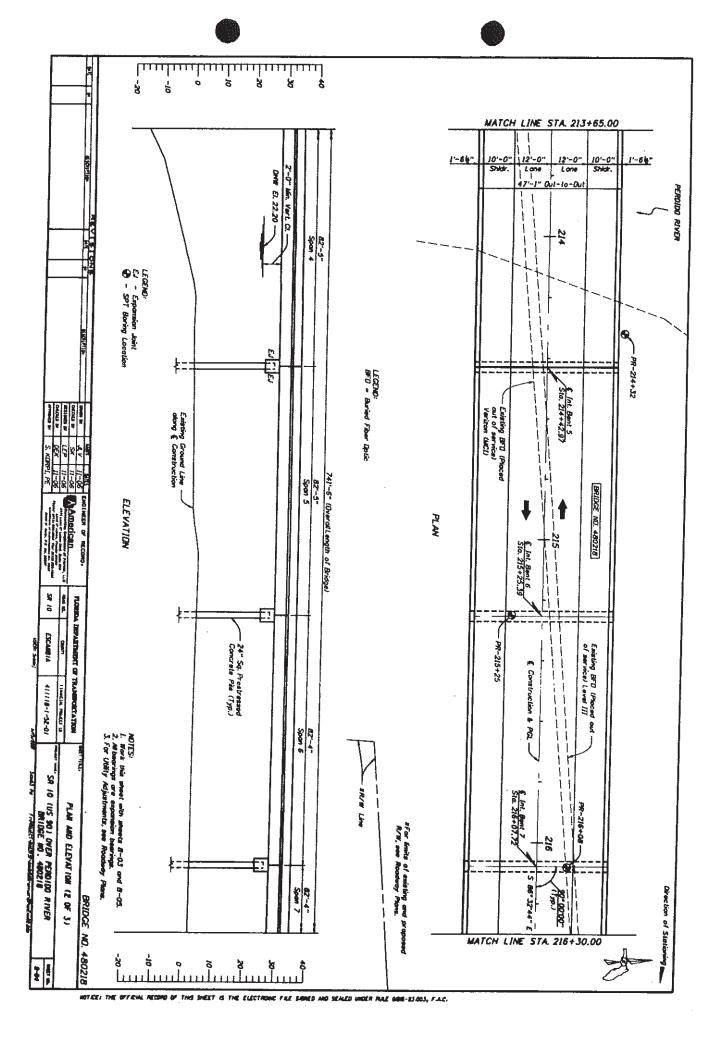
 Payment for furnishing and installing composite negarane bearing peak stall be under Bid Item Number 400–147 and includes the following: Proment for furnishing and installing embedded data collectors shallow included in the Contract Unit Price for Bid flam Number 455–146.

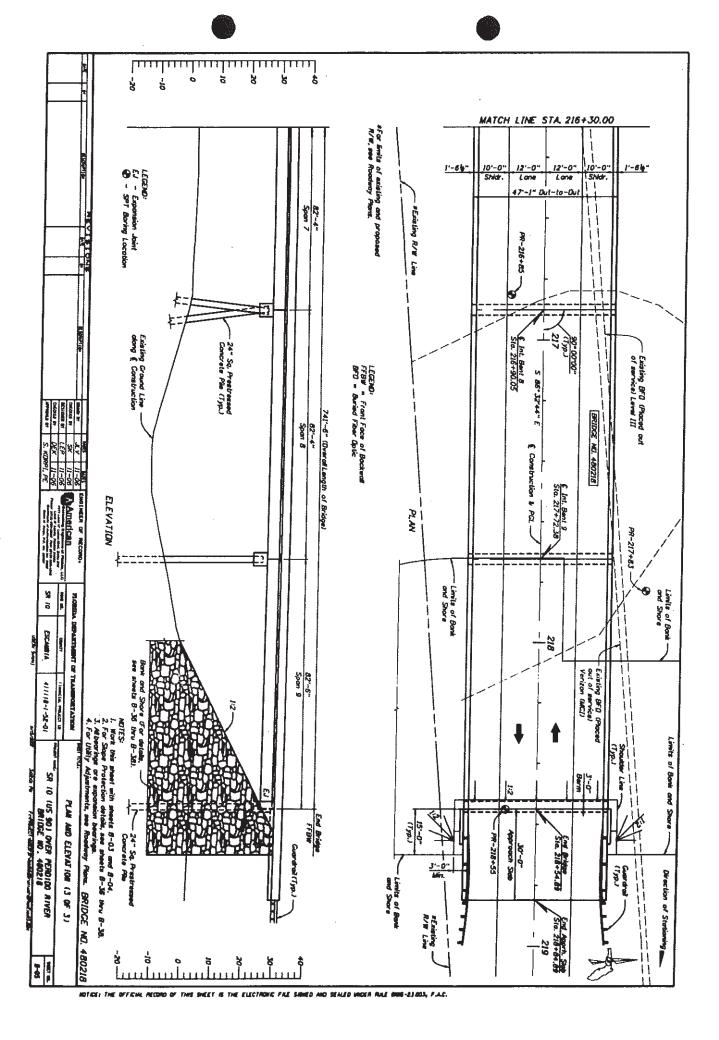
Searing Past Dimension Als of Pasts I'-2" x I'-6" x 2%" 108 STD. BEARING PADS (INDEX NO. 20500) Std. Pad Type
Type III - 8

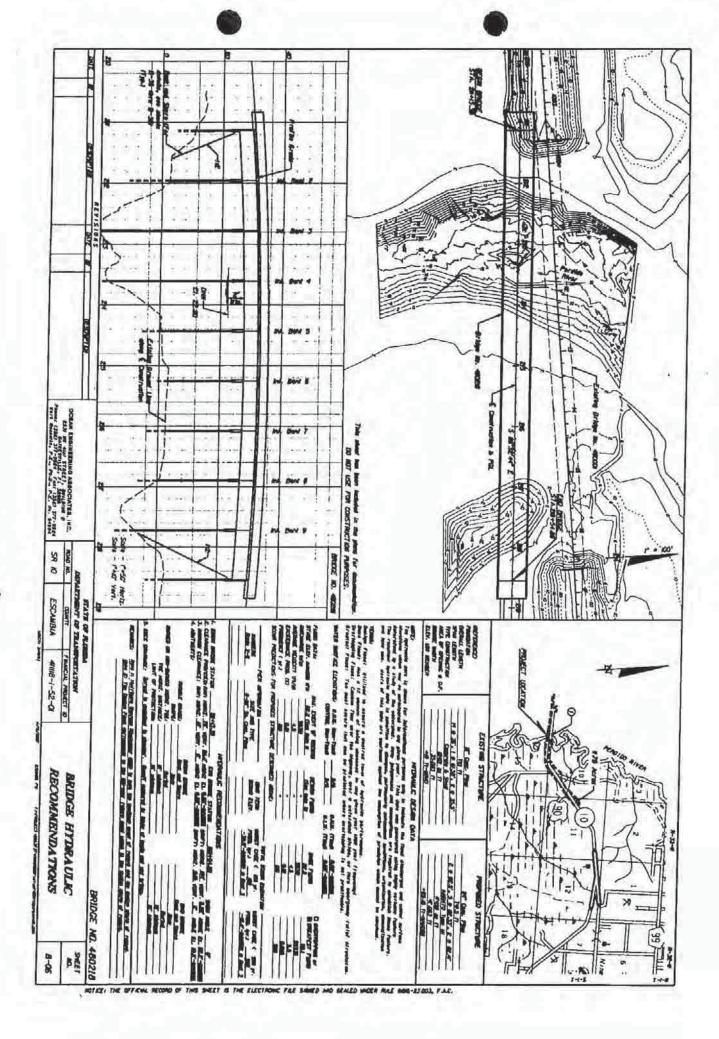


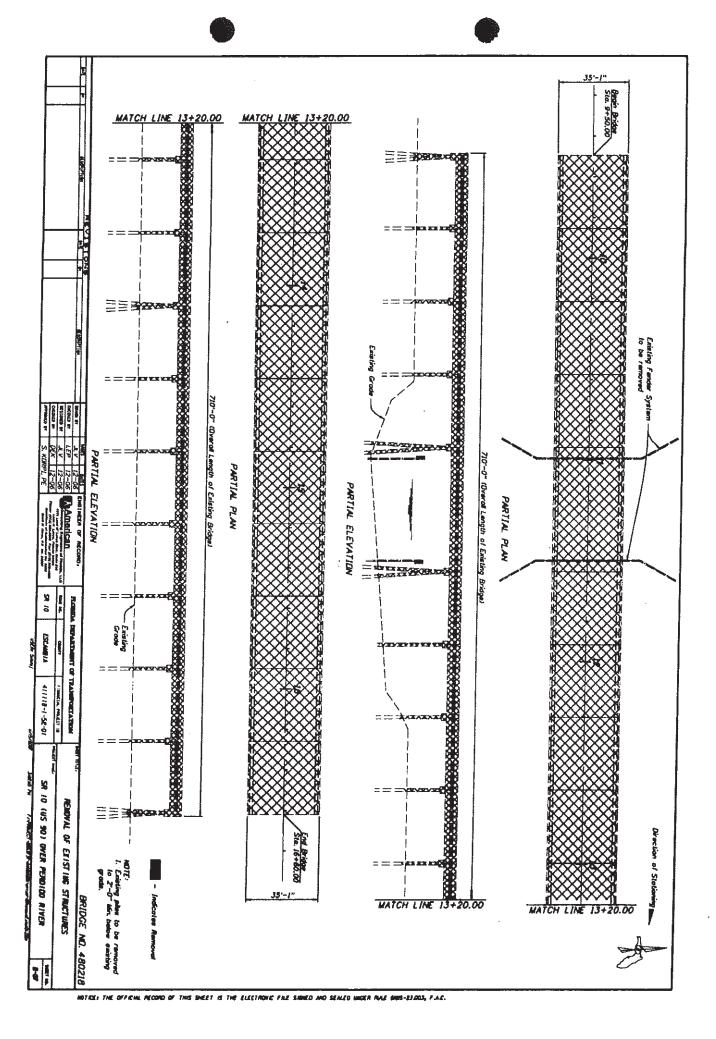
PLOSEDA DEPARTMENT OF TRANSPORTATION 411118-1-52-01 SA 10 105 901 ONER PERDIDO RIVER CENERAL NOTES BRIDGE NO. 480218 Ř













Florida Department of Environmental Protection

Governor . . .

Charlie Crist

Jeff Kottkamp Lt. Governor

Northwest District Office 160 Governmental Center, Suite 308 Pensacola, Florida 32502-5794

Michael W. Sole

WETLAND RESOURCE PERMIT

JACKSONVILLE DISTRICT

PERMITTEE/AUTHORIZED ENTITY:

Florida Department of Transportation Attn: Joy Giddens 1074 Highway 90 Chipley, FL 32428

Permit/Authorization Number:

17-0281915-001-DF
Date of Issue: May 7, 2008
Expiration Date: May 7, 2013

County: Escambia

Project: Perdido River Bridge

reconstruction

This permit is issued under the authority of Part IV of Chapter 373, F.S., and Title 62, Florida Administrative Code (F.A.C.). The activity is not exempt from the requirement to obtain a Wetland Resource Permit. The Department is responsible for reviewing and taking final agency action on this activity.

This permit also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Management Act.

A copy of this authorization also has been sent to the U.S. Army Corps of Engineers (USACOE) for review. The USACOE may require a separate permit. Failure to obtain this authorization prior to construction could subject you to enforcement action by that agency. You are hereby advised that authorizations also may be required by other federal, state, and local entities. This authorization does not relieve you from the requirements to obtain all other required permits and authorizations.

The above named permittee is hereby authorized to construct the work shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof. This permit to use sovereign submerged lands is subject to the limits, conditions, and locations of work shown in the attached drawings, and is also subject to the attached 15 General Conditions and 24 Specific Conditions, which are a binding part of this permit. You are advised to read and understand these drawings and conditions prior to

"More Protection, Less Process" www.dep.state.ll.us U.S. Army Corps of Engineers
Permit # <u>5AT- 2007-5634</u>

Date: <u>8/18/08</u>

Attachment: ______

HH



Florida Department of Environmental Protection

Northwest District Office 160 Governmental Center, Suite 308 Pensacola, Florida 32502-5794 Charlie Crist
Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

E

May 7, 2008

Florida Department of Transportation Attn: Joy Giddens 1074 Highway 90 Chipley, FL 32428

Dear Ms. Giddens:

Enclosed is Wetland Resource Permit, No. 17-0281915-001-DF, issued pursuant to Part IV of Chapter 373, Florida Statutes, and Title 62, Florida Administrative Code.

If you have any questions about this document, please contact me at (850) 595-8300 ext. 1134.

Sincerely,

Environmental Supervisor

Submerged Lands and

Environmental Resources Program

Perdido River Bridge Replacement

File No.: 17-0281915-001-DF

Page 2 of 12

commencing the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings. If you are utilizing a contractor, the contractor also should read and understand these drawings and conditions prior to commencing the authorized activities. Failure to comply with all drawings and conditions shall constitute grounds for revocation of the permit and appropriate enforcement action.

ACTIVITY DESCRIPTION:

The proposed bridge reconstruction calls for the design and construction of a new bridge and approaches on the south side of the existing facility. The necessary additional right-of-way has been obtained.

The total area of wetland within the project right-of-way in the State of Florida is 6.3 acres in size. The proposed bridge replacement will permanently fill 3.2 acres of wetlands and temporarily impact (cleared and/or temporarily filled for construction access) 1.7 acres of DEP wetlands. Unavoidable wetland impacts will be mitigated for in accordance with Florida Statute, Chapter 373.4137.

ACTIVITY LOCATION:

The proposed project limits extend along SR 10 (US 90) approximately three tenths of a mile west of the Florida / Alabama State Line (MP -0.30) to Ruby's Fish Camp Road (MP 0.307), Perdido River, Pensacola, Class III Waters of the State, Prohibited Shellfish Harvesting Area, Section 10, Township 1-south, Range 32-west, Latitude 30°31′20′N, Longitude 87°26′42″W, Escambia County.

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

Perdido River Bridge Replacement

File No.: 17-0281915-001-DF

Page 3 of 12

- 3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- 6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - Have access to and copy any records that must be kept under conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

Perdido River Bridge Replacement File No.: 17-0281915-001-DF

Page 4 of 12

c. Sample or monitor any substances or parameters at any location reasonable necessary to assure compliance with this permit or Department rules.

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Reasonable time may depend on the nature of the concern being investigated.

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. A description of and cause of noncompliance; and
 - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance. The permittee shall be responsible for any and all damages that may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.
- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.
- 11. This permit is transferable only upon Department approval in accordance with rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the Department approves the transfer.

Perdido River Bridge Replacement File No.: 17-0281915-001-DF

Page 5 of 12

- This permit or a copy thereof shall be kept at the work site of the permitted activity.
- 13. This permit also constitutes Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500).
- 14. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 - 1. the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - 3. the dates analyses were performed;
 - the person responsible for performing the analyses;
 - 5. the analytical techniques or methods used; and
 - 6. the results of such analyses.
- 15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law that is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Perdido River Bridge Replacement File No.: 17-0281915-001-DF

Page 6 of 12

SPECIFIC CONDITIONS:

- At no time shall construction material of any type be discharged to wetlands or other surface waters outside the limits of the permitted impact areas.
- The applicant shall be responsible for obtaining all necessary right-of-way authorizations and property access authorizations prior to the commencement of the proposed work.
- 3. If during the progress of this project 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 a 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 their designee, shall 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 pitting 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 Chapter 872.05, Florida Statutes.
- 4. At least 48 hours prior to commencement of work authorized by this permit, the permittee shall notify the Department of Environmental Protection, Submerged Lands & Environmental Resources Program, Compliance and Enforcement Section, Suite 202, Northwest District Office, 160 Governmental Center, Pensacola, Florida 32501-5794, in writing. The Department telephone number for reporting problems, malfunctions or exceedances under this permit is (850 595-8300 during normal working hours.
- 5. Prior to construction, the limits of the proposed fill areas shall be <u>clearly flagged</u> <u>and/or staked</u> particularly in areas adjacent to remaining natural wetlands. All construction personnel shall be shown the location(s) of all wetland areas outside of the construction area so as to prevent encroachment from heavy equipment into these areas.
- If the approved permit drawings conflict with the specific conditions, then the specific conditions shall prevail.

Perdido River Bridge Replacement

File No.: 17-0281915-001-DF

Page 7-of 12

7. All storage or stockpiling of tools or materials (construction materials, pilings, etc.) shall be limited to uplands or within the impact areas authorized by this project. All cleared vegetation, excess material, trash, garbage and any other type of debris shall be removed from wetlands/waters of the state within 14 days of completion of that section of work authorized in this permit.

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- 8. All stockpiled fill material to be used in future construction activities of the project shall be maintained and stabilized in such a manner as to prevent possible erosion or turbid discharges into wetlands or open waters following rain events. Methods of stabilization shall include, but are not limited to the use of staked hay bales, staked filter cloth, sodding, seeding, and mulching; staged construction; and the installation of turbidity screens around the immediate stockpiled fill area.
- 9. The Permittee shall be responsible for ensuring that turbidity levels do not exceed background levels. The following measures shall be taken by the permittee whenever turbidity levels within the waters of the State exceed background.
- Immediately cease all work contributing to the water quality violation.
- b. Modify the work procedures that were responsible for the violation, install floating turbidity screens with weighted skirts that extend within 1 ft. of the bottom around each piling or pile group. The screen shall remain in place for the duration of the procedure causing turbidity levels to exceed permitted values.
- Alternative turbidity control methods may be employed provided these methods maintain turbidity levels within permitted levels.
- d. Turbidity control devices shall be maintained in good working order as necessary so that there are no violations of state water quality standards.
- e. Notify the Bureau of Submerged Lands and Environmental Resources, Compliance and Enforcement Section within 24 hours of the time the violation is first detected.
- 10. The project shall at all times comply with applicable State Water Quality Standards, namely:

62-302.500 -Minimum Criteria for All Waters at All Times and All Places;

Perdido River Bridge Replacement File No.: 17-0281915-001-DF

Page 8 of 12

62-302.510 - Minimum Criteria for all Surface Waters; and 62-302.700 - Special Protection - Outstanding Florida Waters, Outstanding National Resource Waters

- 11. All wetland areas or water bodies outside the specific limits of construction authorized by this permit must be protected from erosion, siltation, scouring and/or dewatering. Turbidity barriers/erosion control devices shall be installed prior to any excavation or placement of fill material and shall be maintained in effective condition at all locations and at all times until construction is completed and disturbed areas are stabilized. Thereafter, the permittee must remove the barriers. At no time shall there be any discharge in violation of the water quality standards in 62-302 F.A.C. Turbidity/erosion controls shall be installed prior to any clearing, excavation or placement of fill material and shall be maintained in an effective condition at all locations until construction is completed, disturbed areas are stabilized, and turbidity levels have fallen to less than ambient background. The permittee shall be responsible for ensuring that erosion control devices/procedures are inspected/maintained daily during all phases of construction authorized by this permit. Once these conditions are met, the turbidity and erosion control devices shall be removed within 14 days. Staked filter cloth shall be positioned at the edge of the permitted fill slopes where they are adjacent to wetlands in order to prevent turbid run-off and erosion.
- 12. Any damage to wetlands/littoral zone area as a result of construction work shall be restored to pre-construction elevations and then replanted with vegetation of the size, density, and species that exist in the adjacent areas. The restoration shall be completed within 30 days of completion of the bridge construction.
- 13. The permittee and its contractors shall adhere to the standard specifications for prevention, control and abatement of erosion and water pollution, as stated in Section 104 of the Florida Department of Transportation Standard Specifications for Road and Bridge Construction, and to any stricter standards as required in these Specific Conditions.
- 14. Best management practices for controlling erosion and turbidity, including but not limited to the use of staked hay bales, turbidity curtains, and staked filter cloth, shall be utilized and maintained at all times during project construction to prevent erosion, sedimentation and the discharge of turbid water into wetlands and other waters of the State outside of the authorized areas of impact. These erosion and turbidity control devices shall be maintained until post-construction stabilization has been achieved in the area.

Perdido River Bridge Replacement

File No.: 17-0281915-001-DF

Page 9 of 12

- 15. The permittee shall assign a qualified environmental scientist(s), who is independent of the construction contractors, to be responsible for oversight and quality assurance of the construction contractors inspections of the erosion and turbidity control devices, for overseeing turbidity monitoring, for keeping a inspection log, and for ensuring that the effectiveness of each erosion and turbidity control device is maintained at all times until post-construction turbidity levels in open water are at ambient levels and vegetative stabilization is achieved on land. The inspection log will be prepared in accordance with FDOT Standard Specifications and forms. The inspection log shall note the date that the control devices were installed, the type of devices, occurrence of precipitation, adequacy of devices, turbidity levels, corrective or maintenance measures required, and the date that the devices were removed. Turbidity monitoring shall be conducted as specified in the MONITORING REQUIRED section of this permit. The log shall be kept up to date, shall be made available upon the Department's request, and shall be submitted to the Northwest District Wetland Resources Program, Compliance-Enforcement Section with the final semiannual narrative report. The name, address, phone number, and qualifications of the environmental scientist(s) shall be indicated in the construction commencement notice and the semi-annual narrative reports.
- 16. If dewatering is necessary for any construction activities associated with this project, it shall be accomplished by pumping the water into functional, upland detention ponds. The capacity of the ponds and the management of pumping rates and discharges shall be adequate to control turbidity such that the turbidity level of the effluent is less than 29 NTUs above ambient levels.

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- 17. No lead-based paint shall be used on the bridges associated with this project. Additionally, no hazardous materials used in association with this project shall be stored within or over the limits of the Department's jurisdiction.
- 18. Fueling of barge mounted equipment, for example, cranes, compressors, etc. will be from double-walled fuel tanks transported and loaded onto the barge that supports the equipment to be fueled. No refueling will occur across open water.
- 19. Construction debris shall not be discarded into open waters or wetlands. For that portion of the material that is suitable for artificial reef deployment, the material must first meet the criteria of the Escambia County Large Area Artificial reef site and be deployed under the direction of the Escambia County Marine Resources Division. That

Perdido River Bridge Replacement File No.: 17-0281915-001-DF

Page 10 of 12

portion of the construction debris not suitable for deployment to artificial reef sites shall be disposed of in an approved solid waste disposal site.

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- 20. There shall be no discharge of oil, greases, solid waste or construction debris in Escambia Bay from any activity associated with this project.
- 21. The contractor(s) shall make portable toilets available at the bridge construction site and, if possible, on construction barges. The portable toilets are to be serviced on a regular basis and at no time shall the contents be released into the Perdido River or other waters of the State.
- Unavoidable wetland impacts shall be mitigated for in accordance with Florida Statute, Chapter 373.4137.

MONITORING REQUIRED

23. Turbidity- During installation of the first bridge piling and removal of the first existing bridge piling, turbidity samples shall be taken at 25, 50 and 100 foot distances upstream and downstream from the piling at top, mid and bottom (one foot above bottom) elevations. If test results indicate turbidity levels below state standards then additional sampling will not be required. If, however, the methodology for piling installation or removal changes then additional monitoring may be required depending on the specific method of construction.

REPORTING

- 24. Semi-annual narrative reports shall be submitted by the Permittee or the designated responsible party to the DEP Northwest District Office at the address on the letterhead of this permit. The reports shall indicate the status of the project and shall include the following information:
- a. Brief description and extent of work (dredging, filling, construction, etc.) completed since the previous report or since permit was issued. Indicate on copies of the permit drawings those areas where work has been completed.
- b. Brief description and extent of work (dredging, construction, planting, etc.) anticipated in the next six months. Indicate on copies of the permit drawings those areas anticipated that work will be done.

Perdido River Bridge Replacement

File No.: 17-0281915-001-DF

Page 11 of 12

c. Brief description of problems encountered and how those problems were resolved.

The first semi-annual report is due six months from the date of permit issuance. The last status report shall be submitted within 30 days after the completion of the construction activities authorized by his permit.

Executed in Escambia County Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Barbara F. Ruth

Program Administrator

Submerged Lands and Environmental

Resource Program

Cc:

U.S. Army Corps of Engineers

Thompson Engineering, Agent

Escambia County Property Appraiser

Enclosure:

Location Map

Project Drawings

Perdido River Bridge Replacement File No.: 17-0281915-001-DF

Page 12 of 12

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this permit

including all copies were mailed before the close of business on

May 7th, 2001 to the above listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to 120.52(9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk Date
Cathy Brewn

May 7th, 2008

Prepared By: Elizabeth Mullins

pages attached

AS-BUILT CERTIFICATION BY PROFESSIONAL ENGINEER

Submit this form and one set of as-built engineered drawings to the U.S. Army Corps of Engineers, Enforcement Branch, Post Office Box 4970, Jacksonville, Florida 32232-0019. If you have questions regarding this requirement, please contact the Enforcement Branch at 904-232-2907.

1.	Departm	ent of the	Army Permit N	Number:	. ,	
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					U.S. Army Corps of Permit # 5/15/ Date: 8/18/ Attachment:	2007-5634

Copy of UWRMP 5.1.4

Perdido River, 4/7/08 Update

Referenced in this Permit

PERDIDO RIVER WMA – PHASE II MITIGATION

UWRMP Section 5.1.4 Supplement

April 7, 2008

Background:

In 2006, the NWFWMD acquired (fee-simple) 5,456 acres from the International Paper Company (IP) to form the Perdido River Water Management Area (WMA). These lands consist of a mosaic of forested wetlands and upland buffers, with extensive cover of loblolly and slash pine plantation. Harvesting rights for merchantable timber stands have been reserved by IP through 2011; the purchase price for this acquisition was ~\$12,000,000. Most funding came from the Florida Forever program, although \$480,000 of FDOT mitigation funding was used for acquisition of 220 acres of the IP lands to offset impacts associated with construction of the US 90 Escambia Co. Weigh Station¹. On the remaining Perdido River WMA lands (i.e., excluding the 220 acres already used as mitigation) there continue to be ample restoration opportunities to offset future FDOT impacts. Plans being developed for the restoration of 54 acres on the Perdido River WMA lands (i.e., "Phase II Mitigation") are described below.

Phase II Mitigation:

This project will restore and enhance ~54 acres of mostly 6-year old bedded pine plantation (loblolly pine planted 2002) to a mixture of ~25 acres of Forested Mixed Wetlands – FLUCCS 630, ~16 acres of Hydric Pine Flatwoods – FLUCCS 625, and ~13 acres of Mesic Pine Flatwoods – FLUCCS 411.

Per NRCS data, the soils of this site consist of:

- Croatan and Pickney Soils, Depressional
- Doravan Muck and Fluvaquents, Frequently Flooded
- Hurricane and Albany Soils, 0-5% Slopes, Occasionally Flooded
- Pehham-Yemassee Complex, Occasionally Flooded

Polygon I (formerly E) – (FLUCCS 441 Current / 630 Restored). This polygon is ~4 acres of mostly pine plantation (FLUCCS 441), with minor inclusions of forested mixed wetlands (FLUCCS 630) along a natural drain, that occur within 300' of US 90. To restore this polygon completely to Forested Mixed Wetlands – FLUCCS 630, the planted slash pine will be removed, relic windrows dispersed, breached or removed, and appropriate forested mixed wetland species planted. Dispersal of relic windrows will only occur during drier periods to prevent rutting and other disturbances to soil structure. Appropriate BMPs will be observed at all times.

¹ This use of 220 acres at the Perdido River WMA to offset the US 90 Escambia Weigh Station impacts constitutes "Phase I Mitigation."

Polygon II (formerly A) – (FLUCCS 441 Current / 630 Restored). This polygon is ~9.5 acres of slash pine plantation (FLUCCS 441) and is greater than 300' from US 90. To restore this polygon to Forested Mixed Wetlands – FLUCCS 630, the planted slash pine will be removed, relic windrows dispersed, breached or removed, and appropriate forested mixed wetland species planted. Dispersal of relic windrows will only occur during drier periods to prevent rutting and other disturbances to soil structure. Appropriate BMPs will be observed at all times.

Polygon III (formerly B) – (FLUCCS 630 Current & Post Mitigation). This polygon consists of ~11.5 acres of Forested Mixed Wetlands – FLUCCS 630 and will be enhanced by management for exotic/invasive species and improvements garnered by restoration of adjacent hydric pine flatwoods and mixed forested wetlands. Prescribed fire from adjacent polygons will be allowed to burn into the Forested Mixed Wetlands areas when it is determined by a state-certified Burn Master that catastrophic damage would not result. Firebreaks will be used only where necessary to prevent catastrophic fire damage. Some brush reduction may be implemented along the margins of this polygon and/or where appropriate

Polygon IV (formerly D) – (FLUCCS 441 Current / 625 Restored). This ~16-acre polygon will be restored to Hydric Pine Flatwoods – FLUCCS 625 by having existing pine plantation (FLUCCS 441) thinned to no more than 112 trees per acre. Brush reduction will be accomplished by prescribed fire and, as necessary, mechanical means such as gyro-tracking or roller chopping. Relic wind rows will be dispersed, breached or removed by bulldozer or other appropriate equipment. Appropriate BMPs will be observed at all times; brush reduction or dispersal of wind rows will occur only during drier conditions when disturbance of the soil matrix is unlikely to occur. To promote groundcover diversity, wiregrass and other species may be planted or seeded if necessary. Prescribed fire (growing season) and exotic/invasive species control will be implemented for long-term management. Removal of existing wind rows will improve hydrologic sheetflow conditions.

<u>Polygon V (formerly C) – (FLUCCS 441 Current / 411 Restored)</u>. This polygon, ~13 acres, will be restored as Mesic Pine Flatwoods (FLUCCS 411). Pine will be thinned to approximately 200 trees per acre. Prescribed fire and exotics management will be implemented.

UMAM analysis by NWFWMD staff and the CORPS/IRT indicate that 8.58 credits will be gained by restoration of this site.

Success Criteria:

Success criteria will be derived from UWRMP Chapter 11.

Monitoring:

Monitoring protocols necessary to ensure effective preservation, enhancement and restoration will be derived from Chapter 11.0 of the UWRMP.

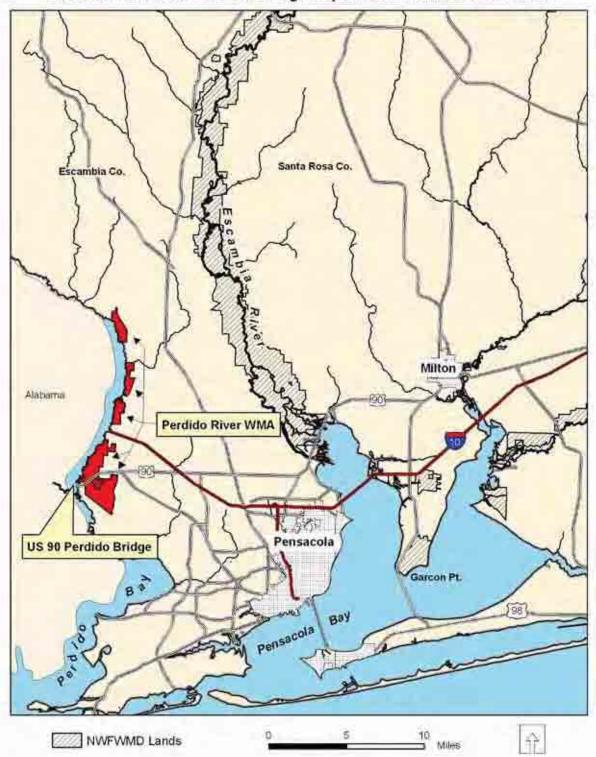
Long-term Management:

The NWFWMD is responsible for ensuring the perpetual management of mitigation lands. Florida Statutes sections 373.1391(1)(a) and 373.59(3) mandate the ecological management and restoration, to the extent practicable, of lands owned by the NWFWMD. Mitigation lands owned by the NWFWMD will be managed in perpetuity for ecological integrity in accordance with the "Management Policies for Water Management Areas of the Northwest Florida Water Management District" (NWFWMD 1998). Long-term management is described in the UWRMP Chapter 11.

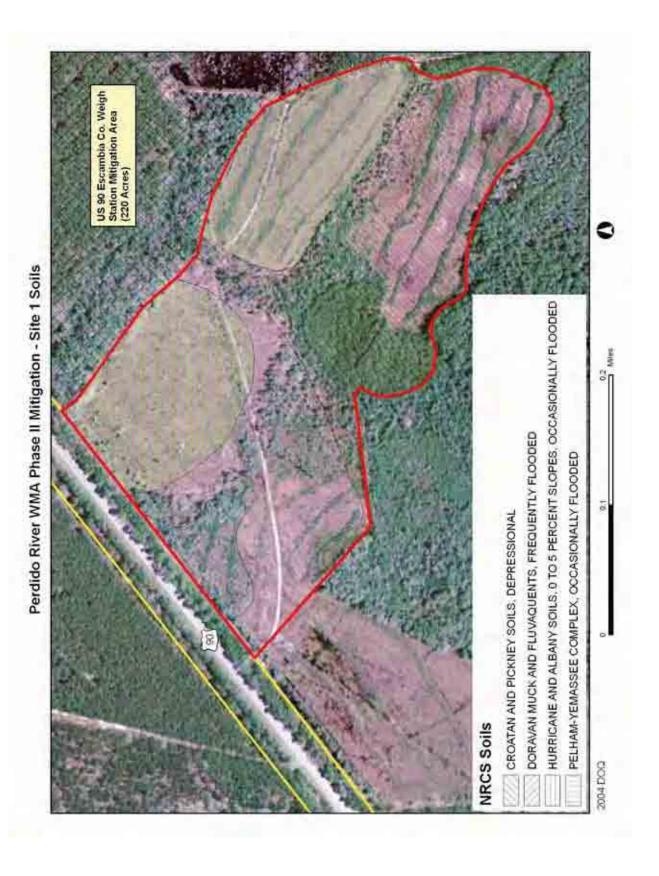
Annual Status Reports:

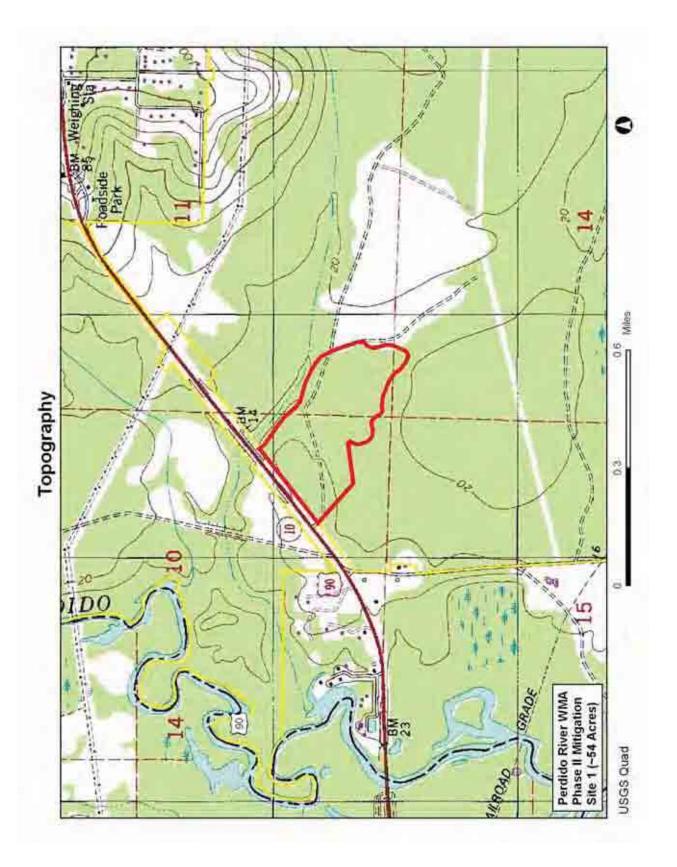
Annual status reports, if required by the CORPS/IRT, will be generated and posted at http://www.nwfwmdwetlands.com. A summary status report for all mitigation projects, including cost accounting, will also be provided annually to the CORPS if requested.

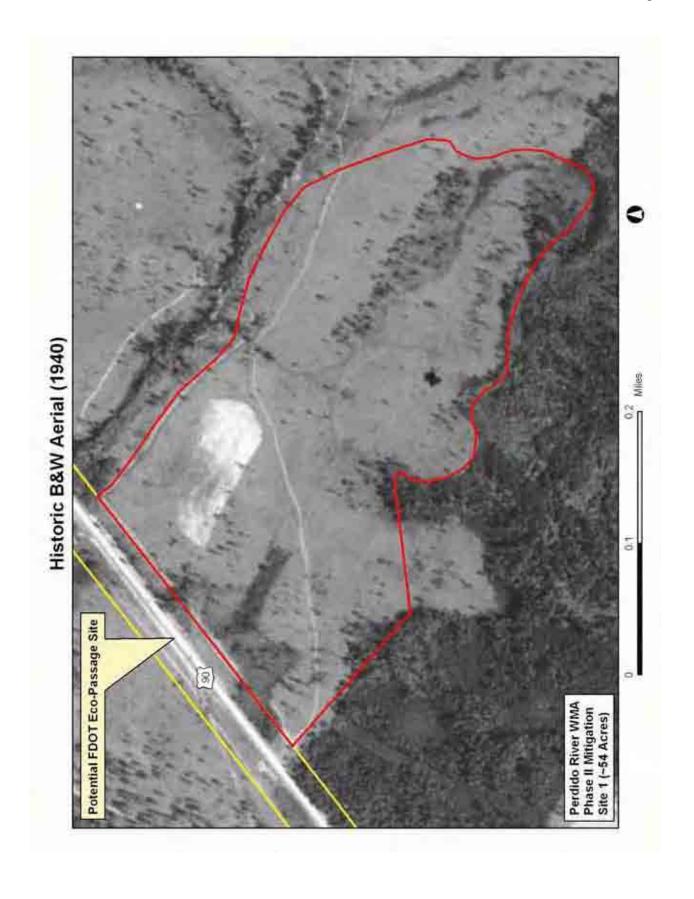
Location of US 90 Perdido Bridge Impact and Perdido River WMA

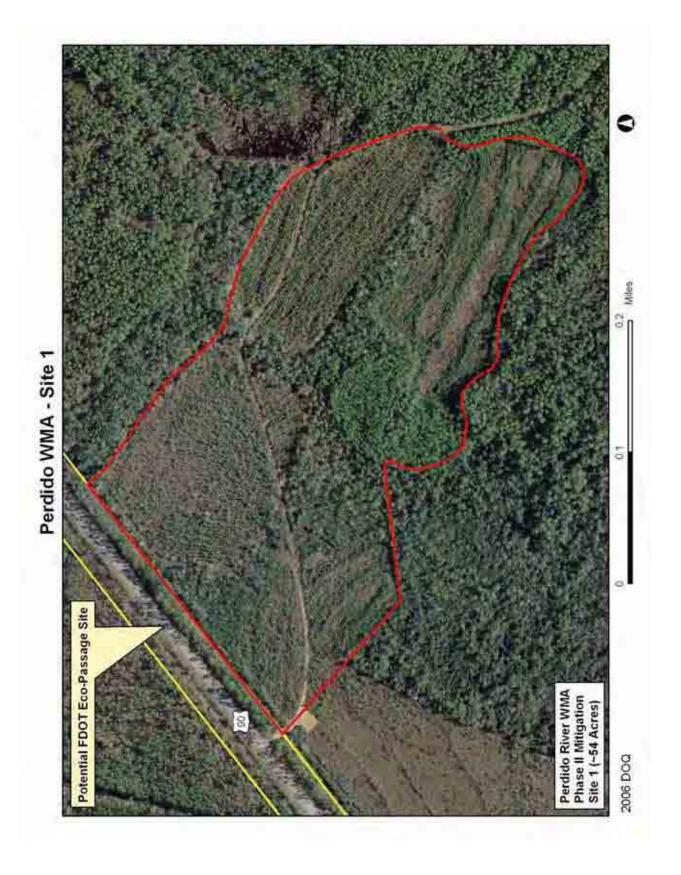


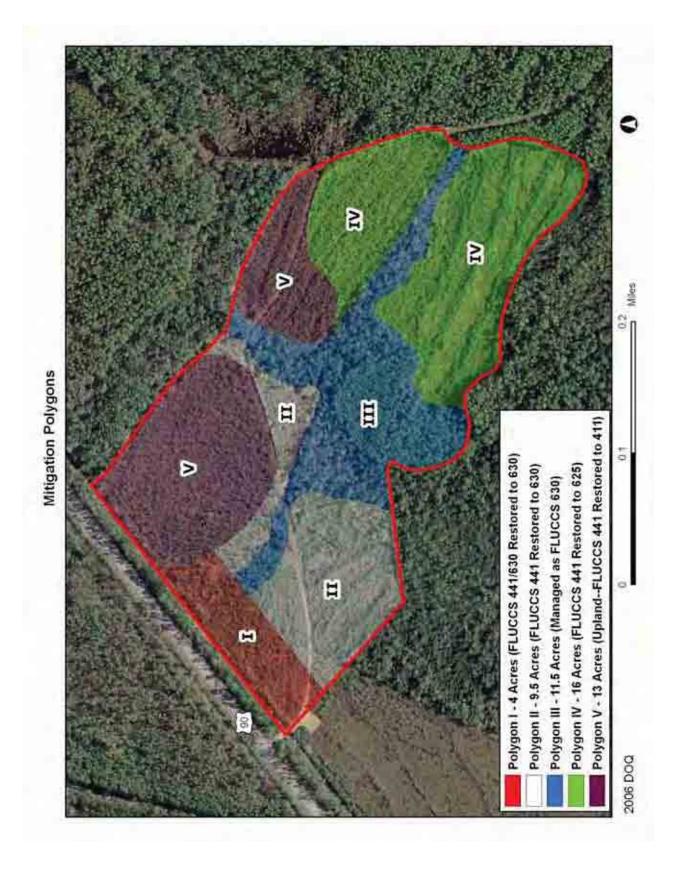
Perdido River WMA - Phase II Mitigation Site 2: Cypress Planting (~1 Acre Perdido River WMA US 90 Escambia Co. Weigh Station Mitigation Area US 90 Bridge Replacement 3.60 Acres Impact Site 1: Flatwoods and Mixed Forested Wetlands Restoration (~54 Acres) 0,5 . Miles 2004 DOQ

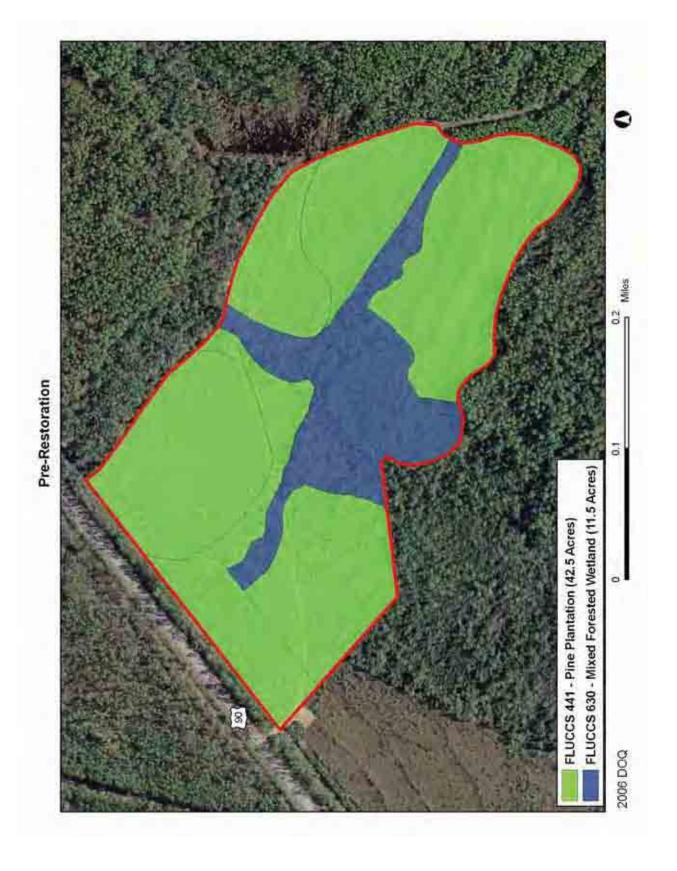


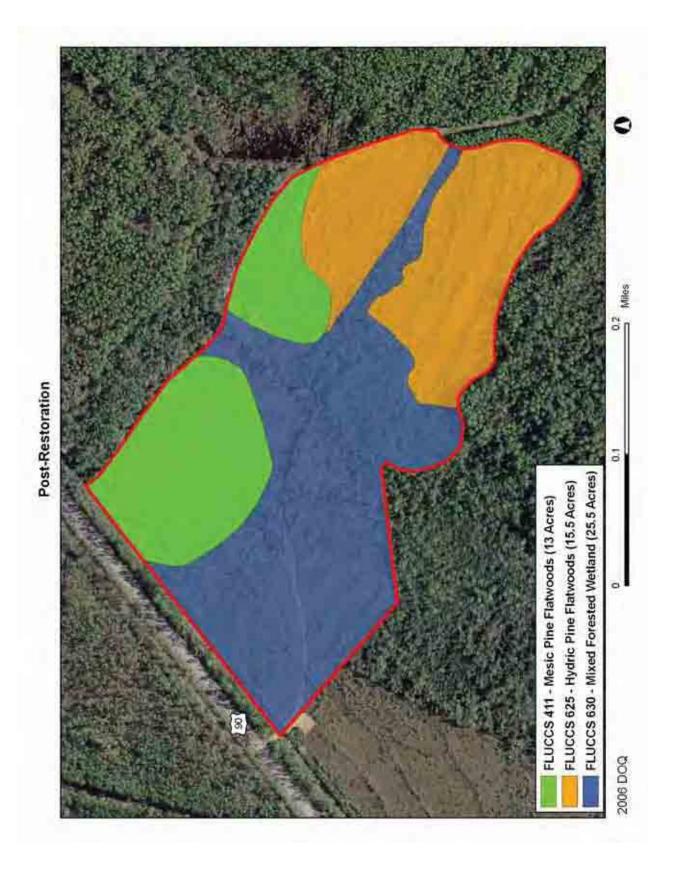


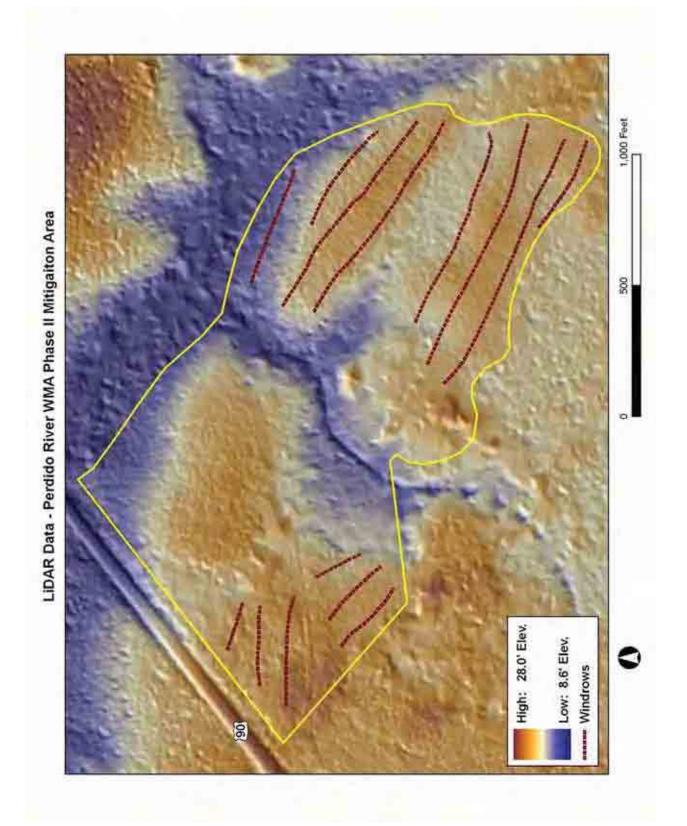


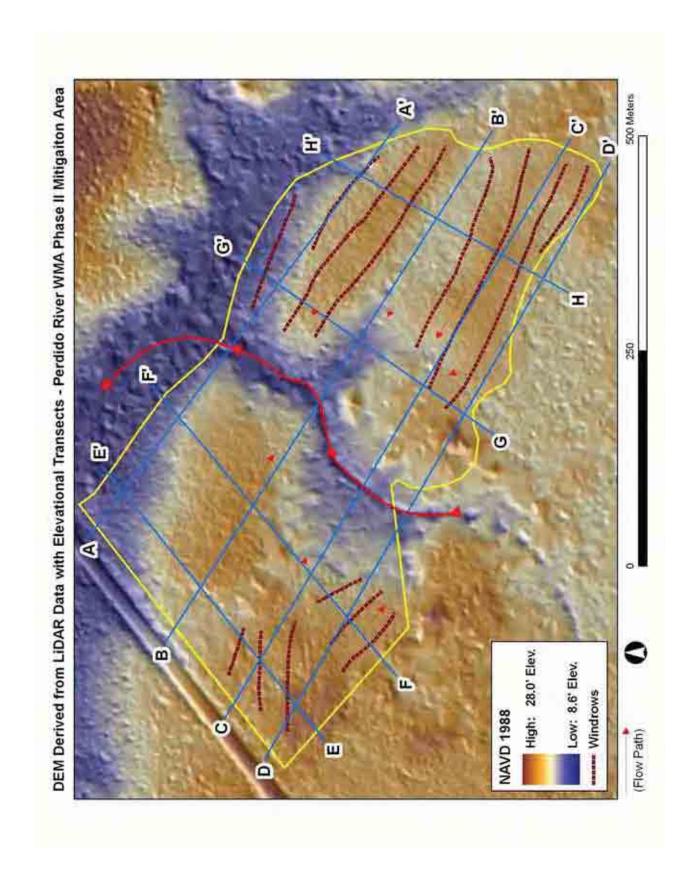


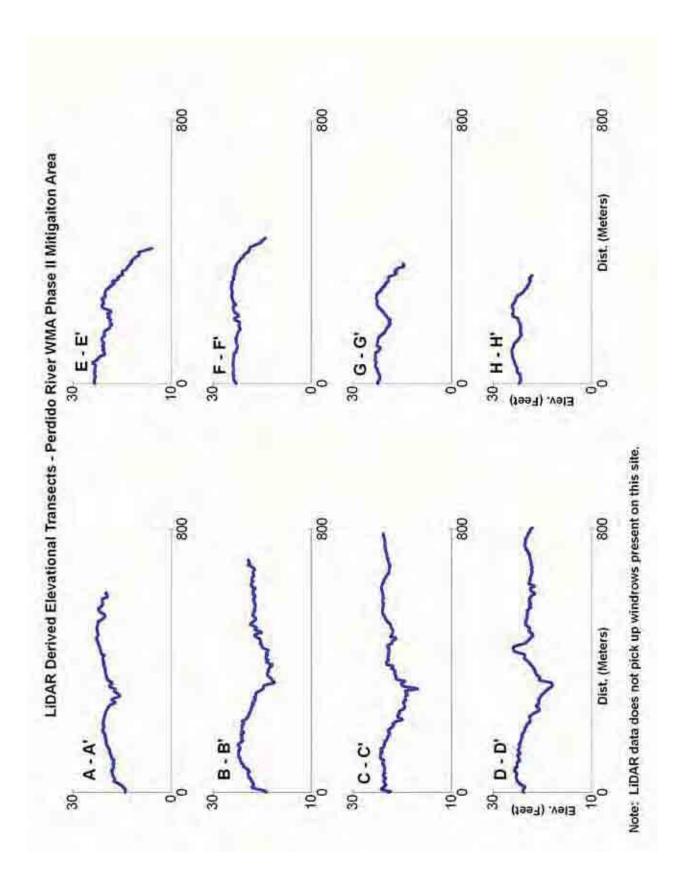














Hydric Pine Flatwoods Restoration Area



Hydric Pine Flatwoods Restoration Area



Forested Mixed Wetlands Enhancement Area



Mesic Pine Flatwoods Enhancement Area

Species List

Perdido River Water Management Area – Phase II Mitigation Site March 5, 2008

Table 1. Polygon I & II (formerly E & A; FLUCCS 441 Current / 630 Restored)

Wildlife observed: crayfish chimney, southern cricket frog, deer scat. Bedded pine with large wind rows and a large amount of sphagnum moss. Water depth 0-2".

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Acer rubrum	Red maple	X			
Andropogon glomeratus	Bushy bluestem				X
Carex tenax	Caric sedge				X
Centella asiatica	Centella				X
Clethra alinfolia	Sweet pepper bush		X		
Cliftonia monoplylla	Black titi		X		
Cyrilla racemiflora	Red titi		X		
Dicanthelium spp.	Panic grass				X
Drosera brevifolia	Small sundew				X
Gaylussacia frondosa var. tomentosa	Blue huckleberry		X		
Hypericum exile	Florida sands St. Johns Wort				X
Ilex coriacea	Large gallberry		X		
Ilex glabra	Gall berry		X		
Ilex myrtifolia	Myrtle-leaved holly		X		
Lachnocaulon anceps	White-headed bog buttons				X
Lycopodiella appressa	Southern club-moss				X
Lycopodiella caroliniana	Slender club-moss				X
Lyonia lucida	Fetter bush		X		
Magnolia grandiflora	Bull bay	X			
Magnolia virginiana	Silver bay	X			
Myrica inodorata	Odorless wax myrtle		X		
Persea paulistris	Silk bay	X			
Pinus elliottii	Slash pine	X			
Quercus hemisphaerica	Diamond oak	X			
Rhexia nashii	Maid Marion meadow beauty				X
Scleria sp.	Scleria				X
Serenoa repens	Saw palmetto		X		
Solidago fistulosa	Pine barrens goldenrod				X
Woodwardia virginica	Virginia chain fern				X
Woodwardia areolata	Netted chain fern				X
Vaccinium corymbosum	High bush blueberry		X		
Viola primulifolia	Primrose leaf violet				X
Vitus rotundifolia	Muscadine grape			X	
Xyris sp.	Yellow eyed grass				X

Table 2. Polygon III (formerly B; FLUCCS 630 current and post mitigation)

Wildlife observed: crayfish chimney, southern cricket frog, sphagnum moss. Water depth 0-6".

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Acer rubrum	Red maple	X			
Andropogon glomeratus	Bushy bluestem				X
Carex tenax	Caric sedge				X
Clethra alinfolia	Sweet pepper bush		X		
Cliftonia monoplylla	Black titi		X		
Cyrilla racemiflora	Red titi		X		
Dicanthelium spp.	Panic grass				X
Drosera brevifolia	Small sundew				X
Eleocharis vivipara	Viparous spikerush				X
Gaylussacia frondosa var.	Blue huckleberry		X		
tomentosa					
Hypericum exile	Florida sands St. Johns Wort				X
Hyptis alata	Musky mint				X
Ilex coriacea	Large gallberry		X		
Ilex glabra	Gall berry		X		
Ilex myrtifolia	Myrtle-leaved holly		X		
Lachnocaulon anceps	White-headed bog buttons				X
*Listera australis forma viridis	Southern tway blade orchid				X
Ludwigia sp.	Seedbox				
Lycopodiella appressa	Southern club-moss				X
Lycopodiella caroliniana	Slender club-moss				X
Lyonia lucida	Fetter bush		X		
Magnolia grandiflora	Bull bay	X			
Magnolia virginiana	Silver bay	X			
Myrica cerifera	Wax myrtle		X		
Myrica inodorata	Odorless wax myrtle		X		
Nyssa sylvatica var. biflora	Swamp tupelo	X			
Osmunda cinnamomea	Cinnamon fern				X
Persea paulistris	Silk bay	X			
Photinia pyrifolia	Red chokeberry		X		
Pinus elliottii	Slash pine	X			
Quercus hemisphaerica	Diamond oak	X			
Rhexia nashii	Maid Marion meadow beauty				X
Rhynchospora capillacea	Wiry Rhynchospora				X
Rubus argutus	Blackberry		X		
Scleria sp.	Scleria				X
Serenoa repens	Saw palmetto		X		
Smilax laurifolia	Catbriar			X	
Solidago fistulosa	Pine barrens goldenrod				X
Taxodium ascendens	Pond cypress	X			
Woodwardia virginica	Virginia chain fern				X
Woodwardia areolata	Netted chain fern				X
Vaccinium corymbosum	High bush blueberry		X		1
Viola primulifolia	Primrose leaf violet				X
Vitus rotundifolia	Muscadine grape			X	1
Xyris sp.	Yellow eyed grass		 		X

^{*} State Threatened Species,

Table 3. Polygon IV (formerly D; FLUCCS 441 current / 625 restored)

Wildlife observed: crayfish chimney, deer scat. Bedded pine with large wind rows and sphagnum moss. Water depth 0-4".

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Acer rubrum	Red maple	X			
Andropogon glomeratus	Bushy bluestem				X
Carex tenax	Caric sedge				X
Cliftonia monoplylla	Black titi		X		
Cyrilla racemiflora	Red titi		X		
Drosera brevifolia	Small sundew				X
Eupatorium capillifolium	Yankee weed				X
Hypericum crux-andreae	St. Andrew's cross				X
Hypericum exile	Florida sands St. Johns Wort				X
Ilex coriacea	Large gallberry		X		
Ilex glabra	Gall berry		X		
Ilex myrtifolia	Myrtle-leaved holly		X		
Ilex vomitoria	Yaupon		X		
Lachnocaulon anceps	White-headed bog buttons				X
Lycopodiella appressa	Southern club-moss				X
Lycopodiella caroliniana	Slender club-moss				X
Lyonia lucida	Fetter bush		X		
Magnolia virginiana	Silver bay	X			
Myrica inodorata	Odorless wax myrtle		X		
Osmunda cinnamomea	Cinnamon fern				X
Persea paulistris	Silk bay	X			
Pinus elliottii	Slash pine	X			
Pluchea sp.	Pluchea				X
Quercus hemisphaerica	Diamond oak	X			
Rhexia nashii	Maid Marion meadow beauty				X
Saccharum giganteum	Giant plume grass				X
Scleria sp.	Scleria				X
Serenoa repens	Saw palmetto		X		
Solidago fistulosa	Pine barrens goldenrod				X
Woodwardia areolata	Netted chain fern				X
Woodwardia virginica	Virginia chain fern				X
Vaccinium corymbosum	High bush blueberry		X		
Viola primulifolia	Primrose leaf violet				X
Vitus rotundifolia	Muscadine grape			X	
Xyris sp.	Yellow eyed grass				X

Table 4. Polygon V [Upland] (formerly C; FLUCCS 441 current / 411 restored)

Wildlife observed: deer scat. Bedded pine with large wind rows.

Scientific Name	Common Name	Tree	Shrub	Vine	Herb
Andropogon glomeratus	Bushy bluestem				X
Cliftonia monoplylla	Black titi		X		
Eupatorium capillifolium	Yankee weed				X
Hypericum crux-andreae	St. Andrew's cross				X
Ilex glabra	Gall berry		X		
Ilex vomitoria	Yaupon		X		
Lachnocaulon anceps	White-headed bog buttons				X
Magnolia grandiflora	Bull bay	X			
Magnolia virginiana	Silver bay	X			
Myrica inodorata	Odorless wax myrtle		X		
Persea borbonia	Red bay	X			
Pinus elliottii	Slash pine	X			
Quercus hemisphaerica	Diamond oak	X			
Rhexia mariana	Pale meadow beauty				X
Serenoa repens	Saw palmetto		X		
Solidago fistulosa	Pine barrens goldenrod				X
Vaccinium corymbosum	High bush blueberry		X		
Viola primulifolia	Primrose leaf violet				X
Vitus rotundifolia	Muscadine grape			X	

PART I – Qualitative Description (See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	ber Assessment Area Name or Number			or Number	
Perdido River WMA - Pha	se II Mitigation	Not	Applicable		Polygon I (formerly E)
FLUCCs code	Further classifica	ation (optional)		Impact	t or Mitigation Site?	Assessment Area Size
441 with 630 inclusions (Current 630 (Post Restoration)	:);				Mitigation	4 Acres
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classificat	ion (i.e.C	DFW, AP, other local/state/federa	al designation of importance)
Perdido River and Bay	III				OFW	
Geographic relationship to and hyd	drologic connection with	h wetlands, other	surface water, up	lands		
Contiguous to Perdido River we	tlands. Polygon is wi	ithin 300' of US 9	90.			
Assessment area description						
Pine Plantation (FLUCCS 411) w	ith inclusions of Fore	ested Mixed Wet	ands (FLUCCS 6	30).		
Significant nearby features			Uniqueness (co landscape.)	nsider	ing the relative rarity in	relation to the regiona
Within Perdido River WMA; adjacent to TNC Rainwater Nature Preserve.			Typical Habitat			
Functions			Mitigation for pre	vious	permit/other historic us	se
Water quality; protection of rech	arge areas; floral and	d faunal habitat.	. None Known			
Anticipated Wildlife Utilization Base that are representative of the asse to be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)			
Deer, possum, raccoon, bob cat racer, oak toad, American toad, cotton mouse, rabbit, squirrel.			Pineland bog button (LT), yellow fringeless orchid (LE), yellow fringed orchid (LT), white top pitcher plant (LE), gulf coast purple pitcher plant (LT), eastern indigo snake (LT), Florida pinesnake (LS), wood stork.			
Observed Evidence of Wildlife Utili	zation (List species dir	ectly observed, o	l r other signs such	as tra	cks, droppings, casing	s, nests, etc.):
		Deer, rabbit,	raccoon.			
Additional relevant factors:						
Assessment conducted by:			Assessment date	e(s):		
IRT / NV	VFWMD Staff				3/25/2008	

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Na	ame			Application Number	Ass	essment Area	a Name or Numbe	r	
Perdido	River WM	A - Phas	e II Mitigation (Site 1)	Not Applicable		Polygo	n I (formerly	E)	
mpact or Mitig	gation			Assessment conducted by:	Ass	essment date	e:		
		Mitigati	on	NWFWMD Staff			3/25/2008		
Scoring G	uidance	7	Optimal (10)	Moderate(7)	Minima	al (4)	Not Present	t (0)	
The scoring indicator is bas would be suitatype of wetland water ass	g of each sed on wha able for the d or surface		Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support of wetland/surface water functions			Condition is insufficient to provide wetland/surface water functions	
` , `	a) Location a			or highway (US 90) impedes v tation within the polygon dimin adjace					
w/out mit		with mit							
.500(6)(b)W (N/A fo	/ater Enviror for Uplands)			lantation bedding and wind ro n optimal. With Mitigation -					
w/out mit	<u> </u>	with mit							
.500(6)(c)Co	ommunity st	ructure							
	n and/or Ber ommunity	nthic		ins as forested mixed wetland asives management implement; reduction o					
w/out mit	,	with mit							
Score = sum of	f above case)C/30 /:#	If preservation as mitig	vation		For impact a	seecement oross		
	, divide by 20		Preservation adjustme			i oi iiipatta	ssessment areas		
w/out mit		with mit	Adjusted mitigation de				N/A		
0.53		0.73			ilygon Acr	eage = 4			
			If mitigation / restoration	on			assessment areas	6	
	[with - w/ou	ut]	Federal Time L	ag Factor (25 years) = 0.68		Mitigation (0.95	
	0.20			Risk factor = 1.25 [(Delta / (Time Lag * Risk)) * Acres] =				0.00	

PART I – Qualitative Description (See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	ber Assessment Area Name or Number			or Number	
Perdido River WMA - Phase I	I Mitigation (Site 1)	Not	Applicable		Polygon II	(formerly A)
FLUCCs code	Further classification	ation (optional)		Impac	t or Mitigation Site?	Assessment Area Size
441 with 630 inclusions (Current 630 (Post Restoration)	t);				Mitigation	9.5 Acres
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classificat	ion (i.e.C	DFW, AP, other local/state/feder	al designation of importance)
Perdido River and Bay	111				OFW	
Geographic relationship to and hyd	drologic connection with	h wetlands, other	surface water, up	lands		
Contiguous to Perdido River we	tlands.					
Assessment area description						
Pine Plantation (FLUCCS 441).						
Significant nearby features			Uniqueness (co landscape.)	nsider	ing the relative rarity in	n relation to the regiona
Within Perdido River WMA; adjacent to TNC Rainwater Nature Preserve.			Typical Habitat			
Functions			Mitigation for pre	evious	permit/other historic us	se
Water quality; protection of recl	narge areas; floral and	d faunal habitat.	. None Known			
Anticipated Wildlife Utilization Bas that are representative of the asse to be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)			
Deer, possum, raccoon, bob cat racer, oak toad, American toad, cotton mouse, rabbit, squirrel.			Pineland bog button (LT), yellow fringeless orchid (LE), yellow fringed orchid (LT), white top pitcher plant (LE), gulf coast purple pitcher plant (LT), eastern indigo snake (LT), Florida pinesnake (LS), wood stork.			
Observed Evidence of Wildlife Util	ization (List species dir	ectly observed, o	r other signs such	as tra	icks, droppings, casing	gs, nests, etc.):
		Deer, rabbit,	raccoon.			
Additional relevant factors:						
Assessment conducted by:			Assessment date	e(s):		
IRT / NV	WFWMD Staff				3/25/2008	

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Perdido River WMA - Phase II Mitigation (Sit	e 1) Not Applicable				
pact or Mitigation	e i) Not Applicable	Polygo	Polygon II (formerly A)		
	Assessment conducted by: Assessment date:				
Mitigation	NWFWMD Staf	f	3/25/2008		
Scoring Guidance Optimal (1	0) Moderate(7)	Minimal (4)	Not Present (0)		
The scoring of each dicator is based on what rould be suitable for the pe of wetland or surface water assessed Condition is opti fully suppo wetland/surface functions	mal and rts Condition is less than optimal, but sufficient to maintain most wetland/surface	mal, but sufficient to maintain most wetland/surface Minimal level of support of wetland/surface water functions			
	<u>n</u> - A major highway (US 90) impedes pine plantation within the polygon dim rration of adjace				
/out mit with mit 8 9					
	<u>n</u> - Pine plantation bedding and wind r s less than optimal. With Mitigation				
/out mit with mit 6 7					
.500(6)(c)Community structure					
Community With Mitigation -	<u>n</u> - Remains as forested mixed wetlan Exotic/invasives management implem d savanna; reduction o				
/out mit with mit 4 8					
core = sum of above scores/30 (if	on as mitigation	For impact	assessment areas		
uplands, divide by 20)	adjustment factor = N/A	i-oi impact a	accessinent areas		
(out mit with mit	igation delta = N/A	1 1	N/A		
0.60					
If mitigation	restoration	lygon Acreage = 9.5	a accomment areas		
Delta = [with - w/out]	Time Lag Factor (6-10 years) = 0.68	3	assessment areas		
0.20 Mitigation Credits Risk factor = 1.25 [(Delta / (Time Lag * Risk)) * Acres]:					

PART I – Qualitative Description (See Section 62-345.400, F.A.C.)

Site/Project Name	Application Number	ber Assessment Area Name or Number			or Number	
Perdido River WMA - Phase II	Mitigation (Site 1)	Not	Applicable		Polygon III	(formerly B)
FLUCCs code	Further classification	ation (optional)		Impac	t or Mitigation Site?	Assessment Area Size
630 - Forested Mixed Wetlands (Current and Post Restoration)					Mitigation	11.5 Acres
Basin/Watershed Name/Number	Affected Waterbody (Clas	ss)	Special Classificat	ion (i.e.C	DFW, AP, other local/state/federa	al designation of importance)
Perdido River and Bay	III				OFW	
Geographic relationship to and hyd	Irologic connection with	h wetlands, other	surface water, up	lands		
Contiguous to Perdido River we	lands.					
Assessment area description						
Primarily Forested Mixed Wetlan	ds (FLUCCS 630).					
Significant nearby features			Uniqueness (collandscape.)	nsider	ring the relative rarity in	n relation to the regiona
Within Perdido River WMA; adjacent to TNC Rainwater Nature Preserve.			Typical Habitat			
Functions			Mitigation for pre	vious	permit/other historic us	se
Water quality; protection of rech	arge areas; floral and	d faunal habitat.	. None Known			
Anticipated Wildlife Utilization Base that are representative of the asset to be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)			
Deer, possum, raccoon, bob cat racer, oak toad, American toad, cotton mouse, rabbit, squirrel.			Pineland bog button (LT), yellow fringeless orchid (LE), yellow fringed orchid (LT), white top pitcher plant (LE), gulf coast purple pitcher plant (LT), eastern indigo snake (LT), Florida pinesnake (LS), wood stork.			
Observed Evidence of Wildlife Utili	zation (List species dir	ectly observed, o	r other signs such	as tra	icks, droppings, casing	js, nests, etc.):
		Deer, rabbit,	raccoon.			
		, , , , , ,				
Additional relevant factors:						
Assessment conducted by:			Assessment date	e(s):		
IRT / NV	/FWMD Staff				3/25/2008	

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Site/Project Name	te/Project Name Applic			Α	Assessment Area Name or Number		
Perdido River	WMA - Phas	e II Mitigation (Site 1)	Not Applicable		Polygon III (formerly B)		
mpact or Mitigation			Assessment conducted by: Assessment date:			` '	
	Mitigati	on	NWFWMD Staff			3/25/2008	
Scoring Guidance	•	Optimal (10)	Moderate(7)	Mini	mal (4)	Not Present	t (0)
The scoring of eac ndicator is based on would be suitable for ype of wetland or sur water assessed	h what the	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal leve wetland/s fun	Condition is insufficient to provide wetland/surface water functions		
.500(6)(a) Locat Landscape Su w/out mit		boundary; existing pine plan <u>Mitigation</u> - Restoration of a	or highway (US 90) impedes v Itation within the polygon diminadjacent hydric pine flatwoods Povides wildlife access across	nishes value o and savanna	of site to wildlife	in surrounding are	ea. Wit
7	8						
.500(6)(b)Water En (N/A for Upla	nds)		olantation bedding and wind ro n optimal. <u>With Mitigation</u> -				
w/out mit 8	with mit						
.500(6)(c)Communi	ty structure						
Vegetation and/or Communit		With Mitigation - Exotic/inv	ins as forested mixed wetland asives management impleme ; reduction of encroaching shr	nted; restorati			
v/out mit	with mit						
Score = sum of above s uplands, divide l		If preservation as mitig	gation		For impact a	ssessment areas	
v/out mit	with mit	Preservation adjustme				N/A	
0.73	0.83	Adjusted mitigation de	lta = N/A				
		If mitigation / restoration	on	ilygon <i>A</i>	Acreage = 11.5		
Delta = [with -	w/out]	1	Lag Factor (8 years) = 0.89			assessment areas	S
0.10		1	Risk factor = 1	Mitigation Credits			

PART I – Qualitative Description (See Section 62-345.400, F.A.C.)

Site/Project Name		Application Number	ber Assessment Area Name or Number			or Number
Perdido River WMA - Phase II	Mitigation (Site 1)	Not .	Applicable		Polygon IV	(formerly D)
FLUCCs code	Further classifica	ation (optional)		Impac	t or Mitigation Site?	Assessment Area Size
441 - Pine Plantation (Current); 63 Hydric Pine Flatwoods (Restored					Mitigation	16 Acres
Basin/Watershed Name/Number A	Affected Waterbody (Clas	ss)	Special Classificati	ion (i.e.0	DFW, AP, other local/state/federa	al designation of importance)
Perdido River and Bay	Ш				OFW	
Geographic relationship to and hydronic relationship to an and hydronic relationship to a second relationship to the sec	rologic connection with	h wetlands, other	surface water, up	lands		
Contiguous to Perdido River wet	ands.					
Assessment area description						
6-year old bedded pine plantation	n (FLUCCS 441) in hy	dric conditions	; upland vegetati	on on	wind rows.	
Significant nearby features			Uniqueness (co landscape.)	nsider	ring the relative rarity in	relation to the regional
Within Perdido River WMA; adjac Preserve.	er Nature	Typical Habitat				
Functions			Mitigation for pre	vious	permit/other historic us	se
Water quality; protection of recha	arge areas; floral and	d faunal habitat.	. None Known			
Anticipated Wildlife Utilization Base that are representative of the asses to be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)			
Deer, possum, raccoon, bob cat, racer, oak toad, American toad, g cotton mouse, rabbit, squirrel.			Pineland bog button (LT), yellow fringeless orchid (LE), yellow fringed orchid (LT), white top pitcher plant (LE), gulf coast purple pitcher plant (LT), eastern indigo snake (LT), Florida pinesnake (LS), wood stork, Southern tway blade (LT).			
Observed Evidence of Wildlife Utiliz	ation (List species dir	ectly observed, o	r other signs such	as tra	acks, droppings, casing	s, nests, etc.):
Deer, rabbit, raccoon, pinewoods bluestem.						
Additional relevant factors:						
Assessment conducted by:			Assessment date	e(s):		
IRT / NW	FWMD Staff				3/25/2008	

PART II – Quantification of Assessment Area (impact or mitigation) (See Sections 62-345.500 and .600, F.A.C.)

Site/Project	Name			Application Number	Assessment Ar	Assessment Area Name or Number					
Perdi	do River WI	MA - Phas	e II Mitigation (Site 1)	Not Applicable	Polygo	Polygon IV (formerly D) Assessment date:					
mpact or Mi	itigation			Assessment conducted by:							
		Mitigati	on	NWFWMD Staff		3/25/2008					
Scoring	Guidance	\exists	Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)					
The scor indicator is to would be so type of wetla	ring of each based on wh uitable for th and or surfac assessed	е	Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface waterfunctions	Minimal level of support o wetland/surface water functions						
` ')(a) Location dscape Supp		<u>Without Mitigation</u> - A major highway (US 90) impedes wildlife access and movement across the northwest boundary; existing pine plantation within the polygon diminishes value of site to wildlife in surrounding area. <u>With Mitigation</u> - Restoration of hydric pine flatwoods increases value to wildlife in surrounding area; FDOT ecopassage provides wildlife access across US 90.								
w/out mit 8	[with mit									
. , . ,)Water Envir A for Upland:		Without Mitigation - Hydrol Mitigation - Removal of win	ogy degraded by bedding, road rows improves sheetflows.	adside ditching along US 90	, and wind rows. <u>With</u>					
.500(6)(c)	Community	structure									
Vegetation and/or Benthic Community			Without Mitigation - Remains as dense planted pine stand with thick shrub layers; groundcover diversity greatly suppressed. With Mitigation - Restored as hydric pine flatwoods with lower pine densities and greater groundcover diversity. Restoration methods may include prescribed fire, mechanical shrub reduction, thinning of pines to not more than 112 trees per acre, planting of wiregrass and possible herbaceous seeding.								
w/out mit		with mit									
Coore	of observe		If proportion on with	intion	Faring	acceptament areas					
Score = sum of above scores/30 (if uplands, divide by 20)		If preservation as mitigation For impact assessment are Preservation adjustment factor = N/A									
w/out mit			Adjusted mitigation de			N/A					
0.57		0.83			llygon Acreage = 16						
			If mitigation / restoration	on		n assessment areas					
Delta = [with - w/out]			Federal Time L	ag Factor (12 years) = 0.83	Mitigation	Credits					
0.27				Risk factor = 1.25	[(Delta / (Time Lag	1 4 10					

Perdido River WMA Phase II Mitigation UMAM Credit Assessment - March, 2008 (IRT and NWFWMD Staff)

DO NOT ENTER DATA ON THIS PAGE ENTER SCORES ONLY ON INDIVIDUAL POLYGON PAGES

								W/Out	With	Raw	Time	Р		Adjusted	UMAM
Polygon	Acres	L1	L2	W1	W1	C1	C2	Score	Score	Delta	Lag	Factor	Risk	Delta	Credits
I (E)	4	6	7	6	7	4	8	0.53	0.73	0.20	0.68	N/A	1.25	0.24	0.95
II (A)	9.5	8	9	6	7	4	8	0.60	0.80	0.20	0.68	N/A	1.25	0.24	2.25
III (B)	11.5	7	8	8	9	7	8	0.73	0.83	0.10	0.89	N/A	1	0.11	1.29
IV (D)	16	8	9	5	7	4	9	0.57	0.83	0.27	0.83	N/A	1.25	0.26	4.10
Uplands	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	54														8.58

L1 = Location and Landscape Support - Without Mitigation

L2 = Location and Landscape Support - With Mitigation

W1 = Water Environment - Without Mitigation

W2 = Water Environment - With Mitigation

C1 = Community Structure - Without Mitigation

C2 = Community Structure - With Mitigation

Raw Delta = w/mit score - without mitigation score Adjusted Delta = Raw Delta / (Time Lag * Risk) UMAM Credits = Acres * Adjusted Delta