



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
PANAMA CITY REGULATORY OFFICE
475 HARRISON AVENUE, SUITE 202
PANAMA CITY, FLORIDA 32401-2731

REPLY TO
ATTENTION OF

May 22, 2000

Regulatory Division
North Permits Branch
Panama City Regulatory Office
199904932(IP-DH)

Florida Department of Transportation
c/o Mr. Frank Roberts
Post Office Box 607
Chipley, Florida 32428-0607

RECEIVED
MAY 24 2000
Environmental Management

Dear Mr. Roberts:

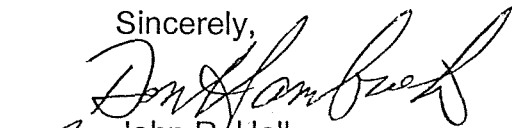
We are pleased to enclose a Department of the Army permit for your project and a Notice of Authorization which should be displayed at the construction site. Work may begin in accordance with the terms and conditions of the issued permit. The appropriate representative of the District Engineer must be notified of:

- a. The date work starts,
- b. The date work stops and starts if work is suspended more than a week, and
- c. The date work is completed.

Mr. Don Hambrick, as the appropriate representative of the District Engineer, can be contacted by writing to the letterhead address. The representative is responsible for inspections to determine that permit conditions are strictly adhered to. A copy of the permit and drawings must be available at the site of work.

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

Sincerely,


John R. Hall
Chief, Regulatory Division

Enclosures

**This notice of authorization must be conspicuously
displayed at the site of work**

United States Army Corps of Engineers

Expiration Date: March 20, 2005

A permit to fill 81.87 acres of wetlands to widen US98 from the intersection of US 98 and Mack Bayou Road eastward to the intersection of US98 and US 331. The project includes the upgrade of various intersections along the project route and the upgrade of a portion of Mack Bayou Road

in wetlands located along the existing route of US98 in Section 25, Township 02 South, Range 21 West; Sections 25, 26, 27, 28, 29 & 30, Township 02 South, Range 20 West; Sections 31 & 36, Township 02 South, Range 19 West; Walton County, Florida.

has been issued to Florida Department of Transportation
c/o Mr. Frank Roberts
Post Office Box 607
Chipley, Florida 32428-0607

on May 22, 2000

199904932(IP-DH)



**Joe R. Miller
Colonel, U.S. Army
District Engineer**

DEPARTMENT OF THE ARMY PERMIT

Permittee: Florida Department of Transportation

Permit No: 199904932(IP-DH)

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 U.S. Army 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: To fill 81.87 acres of wetlands to widen US98 from the intersection of US 98 and Mack Bayou Road eastward to the intersection of US98 and US 331. The project includes the upgrade of various intersections along the project route and the upgrade of a portion of Mack Bayou Road. The work is to be completed in accordance with the attached drawings and mitigation project description: Sheets 1 through 108 for W.P.I. No. 319117; Sheets 1 through 166 for W.P.I. No. 319122; Sheets 1 through 14 for Regional Mitigation Plan for W.P.I. No. 319117; and Sheets 1 through 19 for Regional Mitigation Plan for W.P.I. No. 319122.

Project Location: The project is located along the existing route of US98 in various wetlands along the project route in Section 25, Township 02 South, Range 21 West; Sections 25, 26, 27, 28, 29 & 30, Township 02 South, Range 20 West; Sections 31 & 36, Township 02 South, Range 19 West; Walton County, Florida.

General Conditions:

MAR 202005

1. The time limit for completing the work authorized ends on _____. 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 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 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 ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

Special Conditions:

1. Within 60 days of completion of the work authorized and mitigation (if applicable), the attached "Self-Certification Statement of Compliance" must be completed and submitted to the U.S. Army Corps of Engineers. Mail the completed form to the Regulatory Division, Enforcement Branch, Post Office Box 4970, Jacksonville, Florida 32232-0019.

2. The permittee shall ensure that the mitigation project, as described in the attached NFWMD's regional mitigation plans for FDOT Work Program Item #'s 3119117 and 3119122, is implemented. Review and approval by the Corps in consultation with other federal agencies, of the details for the implementation of the mitigation project, including, but not limited to site specific, detailed plans for each component of the mitigation project, assessment of the relative mitigative value of the various components of the plans to assure that permitted wetland impacts are adequately compensated, and scheduling of monitoring reports to the Corps, is required. The mitigation project, as reviewed and approved by the Corps, shall be fully implemented within five years after the initiation of the permitted work.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:

() 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.

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.

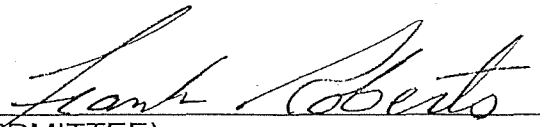
b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (see 4 above).

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

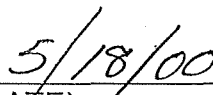
6. **Extensions:** General Condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give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

Permittee: Florida Department of Transportation
Permit Number: 199904932(IP-DH)
Page 5

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

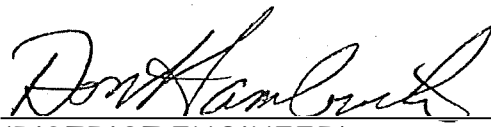


(PERMITTEE)

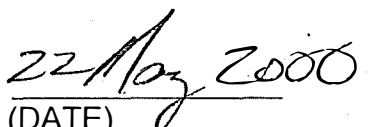


(DATE)


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



(DISTRICT ENGINEER)



(DATE)


Joe R. Miller
Colonel, U.S. Army

DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST

PERMIT NUMBER: 199904932(IP-DH)

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. Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire.

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 and mail to the U.S. Army Corps of Engineers, Panama City Regulatory Office, 475 Harrison Avenue, Suite 202, Panama City, FL 32401.

(TRANSFEEE-SIGNATURE)

(SUBDIVISION)

(DATE)

(LOT)

(BLOCK)

(NAME-PRINTED)

(MAILING ADDRESS)

(CITY, STATE, AND ZIP CODE)

DEPARTMENT OF THE ARMY PERMIT TRANSFER REQUEST

PERMIT NUMBER: 199905053(IP-DH)

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. Although the construction period for works authorized by Department of the Army permits is finite, the permit itself, with its limitations, does not expire.

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 and mail to the U.S. Army Corps of Engineers, Panama City Regulatory Office, 475 Harrison Avenue, Suite 202, Panama City, FL 32401.

(TRANSFEREE-SIGNATURE)

(SUBDIVISION)

(DATE)

(LOT)

(BLOCK)

(NAME-PRINTED)

(MAILING ADDRESS)

(CITY, STATE, AND ZIP CODE)

SELF-CERTIFICATION STATEMENT OF COMPLIANCE

Permit Number: 199904932(IP-DH)

Permittee's Name & Address (please print or type): _____

Telephone Number: _____

Location of the Work: _____

Date Work Started: _____ Date Work Completed: _____

Description of the Work (e.g. bank stabilization, residential or commercial filling, docks, dredging, etc.): _____

Acreage or Square Feet of Impacts to Waters of the United States: _____

Describe Mitigation completed (if applicable): _____

Describe any Deviations from Permit (attach drawing(s) depicting the deviations):

I certify that all work, and mitigation (if applicable) was done in accordance with the limitations and conditions as described in the permit. Any deviations as described above are depicted on the attached drawing(s).

Signature of Permittee

Date

COMPONENTS OF THIS CONTRACT PLANS SET INCLUDE

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS
- ROADWAY LIGHTING PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT SET OF PLANS

INDEX OF ROADWAY PLANS

SHEET NO. SHEET DESCRIPTION

- KEY SHEET
- SUMMARY OF PAY ITEMS
- BOX CULVERT DATA
- SPECIAL ENDIALL
- TYPICAL SECTIONS
- GENERAL NOTES
- MISCELLANEOUS DETAIL
- SUMMARY OF QUANTITIES
- SUMMARY OF DRAINAGE STRUCTURES
- PROJECT LAYOUT & REFERENCE POINTS
- ROADWAY PLANS
- ROADWAY PROFILES
- SIDE STREET PROFILES
- ROADWAY DITCH PROFILES
- MEDIAN OPENINGS DETAIL
- INTERSECTION DETAIL
- DRAINAGE STRUCTURES
- MISCELLANEOUS DRAINAGE DETAILS
- RETENTION POND DETAILS
- POND STRUCTURE DETAILS
- POND SOILS SURVEY
- STORMWATER POLLUTION PREVENTION PLANS
- FLOOD DATA SHEET
- ROADWAY SOIL SURVEY
- ROADWAY CROSS SECTIONS
- UTILITY ADJUSTMENTS

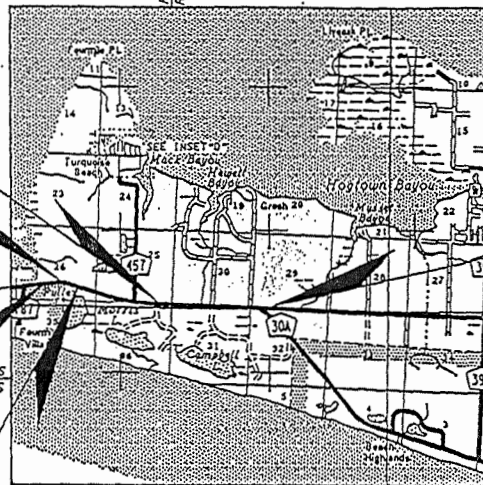
GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION
ROADWAY AND TRAFFIC DESIGN STANDARDS
DATED JANUARY 1995 AND
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION DATED 1999
AS AMENDED BY CONTRACT DOCUMENTS.

REVISIONS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 220637-1-52-01
STATE PROJECT NO. 60020-3517
(FEDERAL FUNDS)
WALTON COUNTY
STATE ROAD NO. 30 (US 98)



EQUATION:
STA. 1296+32.238 BK # =
STA. 1296+34.648 AH

EQUATION:
STA. 177+79.127 BK # =
STA. 177+70.960 AH

BEGIN CONSTRUCTION
K.P. 7.507 = U.P. 4.665
STA. 112+85.734 E CONSTRUCTION

BEGIN PROJECT
K.P. 8.270 = U.P. 5.139
STA. 1080+46.818 E CONSTRUCTION

LOCATION OF PROJECT



ROADWAY PLANS
ENGINEER OF RECORD:
HAL GORE JR., P.E.
P.O. BOX 607
CHIPLEY, FLORIDA 32428
(850)-638-0250 EXT. 499
FAX: (850)-638-0250

DRAINAGE ENGINEER OF RECORD:
SCOTT GOLDEN, P.E.
P.O. BOX 607
CHIPLEY, FLORIDA 32428
(850)-638-0250 EXT. 492
FAX: (850)-638-0250

PLANS PREPARED BY
F.D.O.T. ROADWAY DESIGN
CHIPLEY, FLORIDA 32428

END STATE PROJECT
K.P. 12.521 = U.P. 7.760
STA. 1123+00.000 E CONST.

NOTE: THIS PROJECT GOES WITH FINANCIAL PROJECT NOS.
220642-1-52-01 AND 220637-2-52-01.

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED
BY REPRODUCTION.

NOTE: THIS IS A METRIC UNIT PROJECT.

LENGTH OF PROJECT	
	METERS
ROADWAY	5 013.023
NET LENGTH OF PROJ.	4 250.772
GROSS LENGTH OF PROJ.	4 250.772

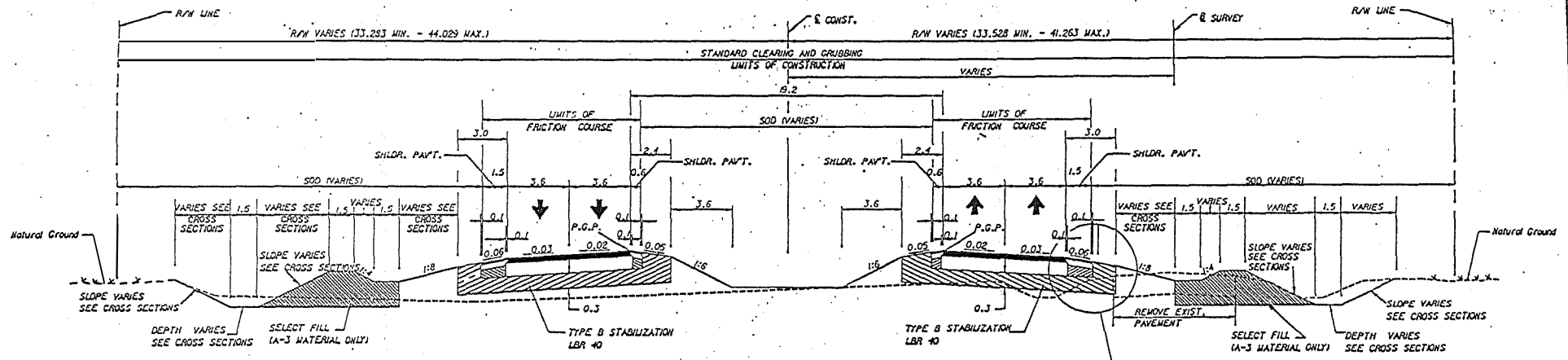
KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
ENGINEER OF RECORD: HAL W. GORE JR., P.E.
P.E. NO. 48105

DESCRIPTION OF PROJECT: SR 30 IUS 981, 0.6 MILES WEST
OF CR 457 TO CR 30A-W

FOOT PROJECT MANAGER : EZZELDIN BEGHUZZI

NOT TO SCALE



CLEAR ZONE = 11.0

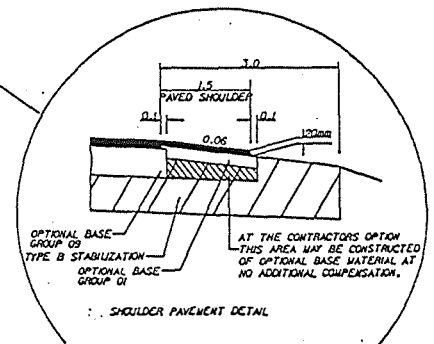
RURAL TYPICAL SECTION
SR 30

STA. 1096+32.238 BK / 1096+34.648 AH TO STA. 1123+00.000

NEW CONSTRUCTION

STA. 1096+32.238 BK / 1096+34.648 AH TO STA. 1123+00.000

OPTIONAL BASE GROUP 09, WITH
TYPE SP (TRAFFIC LEVEL 4) STRUCTURAL COURSE (80mm) AND
FRICTION COURSE (14kg/m²) (FC-5) (RUBBER)



SHOULDER PAVEMENT

OPTIONAL BASE GROUP 01 (THICKNESS VARIES) WITH
TYPE SP STRUCTURAL COURSE (80mm)
AND FRICTION COURSE (FC-5) (14kg/m²) (RUBBER)

OPTIONAL BASE COURSES PERMITTED:
09c 01

TRAFFIC DATA
STA. 1096+34.648 TO STA. 1123+00.000
kd 9.855 = MP 6.124 TO kd 12.520 = MP 7.780

CURRENT YEAR ESTIMATE = 1998 AADT = 23 350
OPENING YEAR ESTIMATE = 2000 AADT = 25 950
DESIGN YEAR ESTIMATE = 2020 AADT = 52 100
K30 = 10.24% D30 = 56% T = 9.5% (24 HOUR)
DESIGN HOUR T = 4.8%
DESIGN HOUR HEAVY T = 3.4%
DESIGN HOUR MEDIUM T = 1.4%
DESIGN SPEED = 110 km/h

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION
SR 30 (US 98)

USE DRAWING SCALE FOR ALL DIMENSIONS UNLESS OTHERWISE NOTED
 DATE: 10/15/03 BY: [signature]

THIS CONTRACT PLAN SET INCLUDES

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT SET OF PLANS

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
1A-1B	SUMMARY OF PAY ITEMS
2-5	BOX CULVERT DATA SHEET
6-13	DRAINAGE MAP
14-16	TYPICAL SECTIONS
17-19	SUMMARY OF QUANTITIES
20-23	SUMMARY OF DRAINAGE STRUCTURES
24-25	PROJECT LAYOUT AND REFERENCE POINTS
26	GENERAL NOTES
27-78	ROADWAY PLANS
79-94	ROADWAY PROFILES
95-100	SIDE STREET PROFILES
101-106	RETENTION POND DETAILS
107	POND STRUCTURE DETAILS
107A-107D	POND SOILS SURVEY
108-154	DRAINAGE STRUCTURES
155-157	MISCELLANEOUS DRAINAGE DETAILS
158-160	STORMWATER POLLUTION PREVENTION PLANS
160A-160E	ROADWAY SOILS SURVEY
161-299	ROADWAY CROSS SECTIONS
300-329	POND CROSS SECTIONS
330-413	TRAFFIC CONTROL SHEETS
414-465	UTILITY ADJUSTMENTS

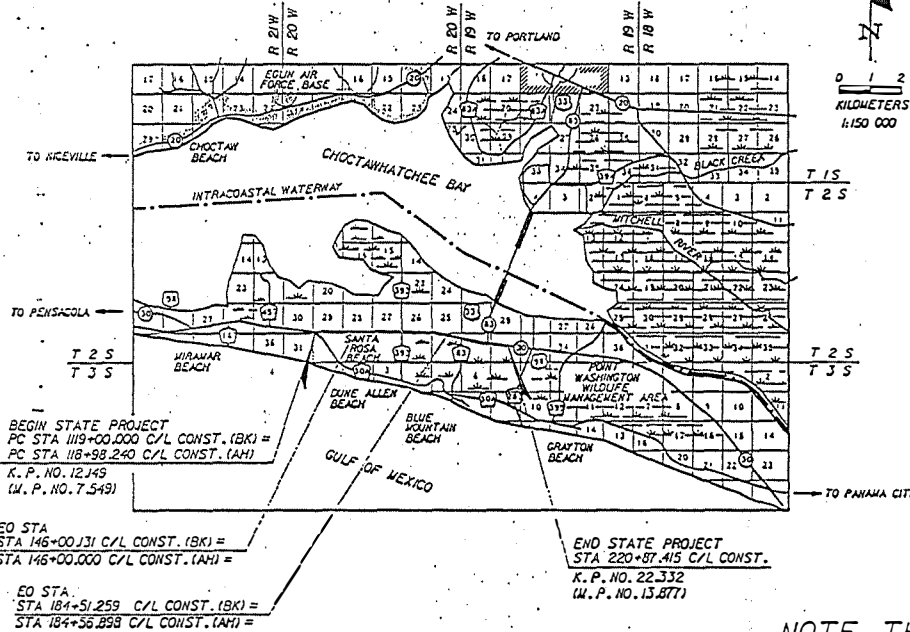
THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, ROADWAY AND TRAFFIC DESIGN STANDARDS BOOKLET DATED JANUARY, 1991.

REVISIONS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
STATE HIGHWAY

STATE PROJECT NO. 60020-3520
(FEDERAL FUNDS)
WALTON COUNTY
STATE ROAD NO. 30



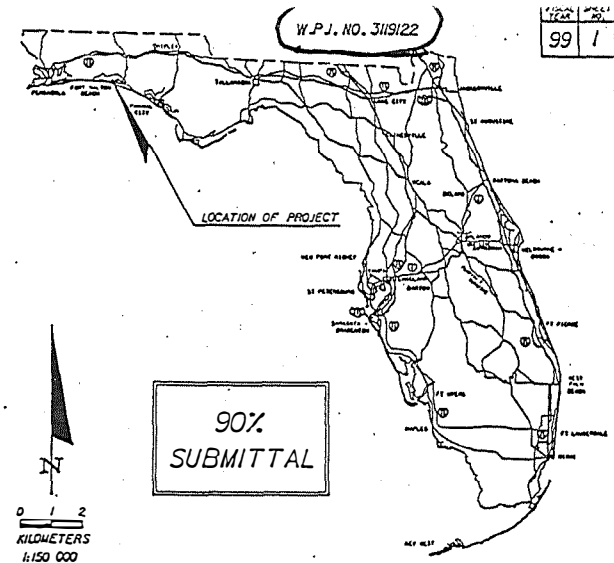
EO STA STA 146+00.000 C/L CONST. (BK) =
STA 146+00.000 C/L CONST. (AH) =
K. P. NO. 12,149
(M. P. NO. 7,549)

EO STA STA 184+51.259 C/L CONST. (BK) =
STA 184+55.859 C/L CONST. (AH) =

END STATE PROJECT
STA 220+07.415 C/L CONST.
K. P. NO. 22,332
(M. P. NO. 13,877)

LENGTH OF PROJECT	
	METERS
ROADWAY	10 183.667
BRIDGES	000.000
NET LENGTH OF PROJ.	10 183.667
EXCEPTIONS	000.000
GROSS LENGTH OF PROJ.	10 183.667

FOOT PROJECT MANAGER: Hal Gore, Jr., P. E.



90%
SUBMITTAL

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO
ROBERT W. HEROD, P.E.
MORELAND ALTOBELLI ASSOCIATES, INC.
926 GREAT POND DRIVE, SUITE 1002
ALTA MONTE SPRINGS, FL 32714
PHONE: (407) 786-0661
FAX: (407) 786-0659

PLANS PREPARED BY: **MA**
Moreland Altobelli Associates, Inc.
Altamonte Springs, Florida

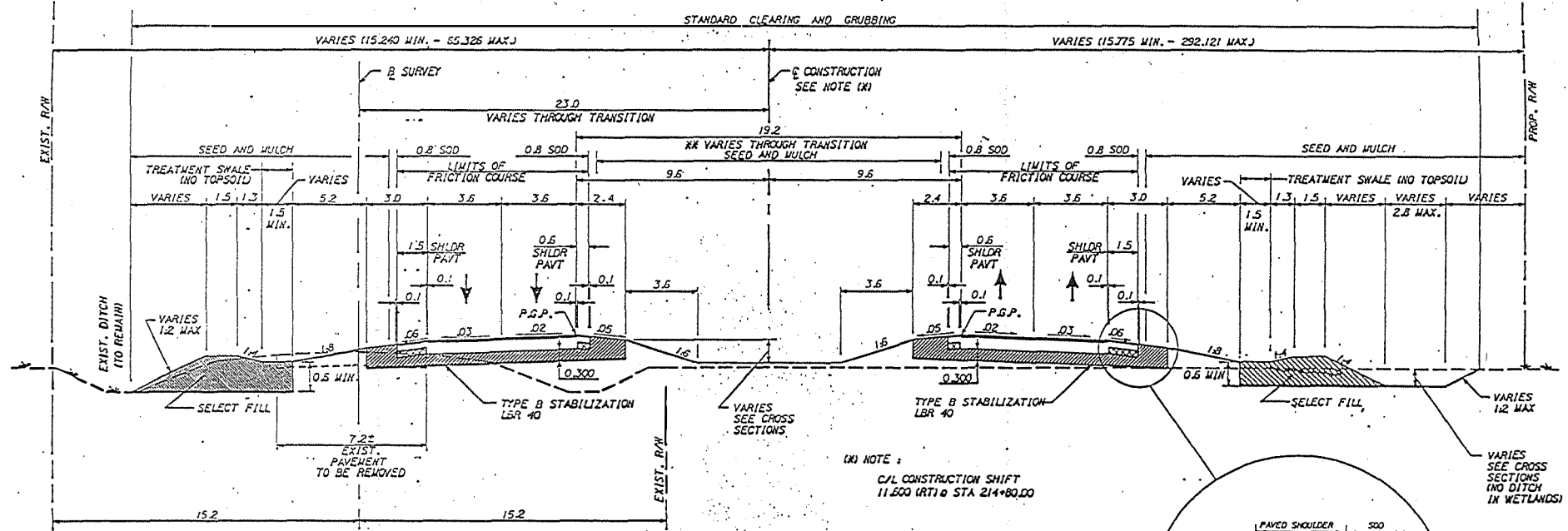
VENDOR NUMBER: 158-174712
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.
GOVERNING SPECIFICATIONS: STATE OF FLORIDA, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, DATED 1996, SUPPLEMENTS AND SPECIAL PROVISIONS THEREIN IF NOTED IN THE CONTRACT SPECIFICATIONS FOR THIS PROJECT.

NOTE: THIS IS A METRIC UNIT PROJECT

REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS
APPROVED BY: ROBERT W. HEROD, P. E.
DATE: _____
P. E. NO. _____

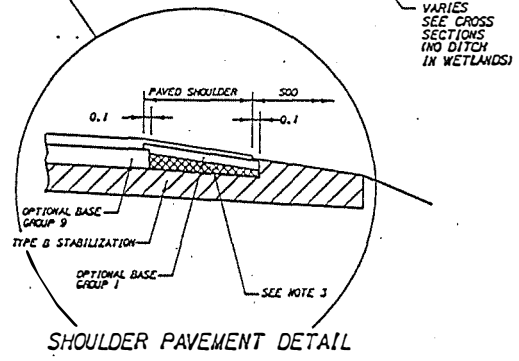
STATE ROAD NO. 30



**TRAFFIC DATA
MAINLINE**
 1991 AADT = 10,250
 2000 AADT = 18,500
 2020 AADT = 34,850
 K = 10.58% D = 5 1/2% T = 7% (24-HR.)
 DESIGN SPEED 105 KM/H

**RURAL TYPICAL SECTION
S.R. 30**
 STA. 118+98.240 TO STA. 146+51.016 C/L CONST.
 **STA. 170+87.709 TO STA. 220+87.415 C/L CONST.
 EQUATION STATION: STA. 1119+00.000 BK = STA. 118+98.240 AH
 STA. 146+00.131 BK = STA. 146+00.000 AH
 STA. 184+51.259 BK = STA. 184+56.898 AH

(X) NOTE:
 C/L CONSTRUCTION SHIFT
 11,600 (RT) @ STA 214+80.00



- NOTES:**
1. NONE OF THE EXISTING LIMEROCK BASE THAT IS REMOVED IS TO BE USED IN THE CONSTRUCTION OF THE NEW LIMEROCK BASE.
 2. ALL OF THE EXISTING LIMEROCK BASE THAT IS REMOVED IS TO BE INCORPORATED IN THE STABILIZED PORTION OF THE SUBGRADE.
 3. AT THE CONTRACTOR'S OPTION, THIS AREA MAY BE CONSTRUCTED OF BASE MATERIAL AT NO ADDITIONAL COMPENSATION.

NEW CONSTRUCTION
 OPTIONAL BASE GROUP 9 WITH
 TYPE S STRUCTURAL COURSE (80 mm) AND FRICTION COURSE FC-2 (15mm) (RUBBER)
OPTIONAL BASE GROUP PERMITTED OPTION CODE
 250 LIME ROCK LBR 100 109
 150 ABC-3 (MIN MARSHALL STABILITY 4500) (FROM STA 119+89.000 TO STA 125+00.000) 109

SHOULDER PAVEMENT
 OPTIONAL BASE GROUP 1 WITH
 TYPE S STRUCTURAL COURSE (30mm) AND FRICTION COURSE FC-2 (15mm) (RUBBER)

NOT TO SCALE

TYPED BY: JEN

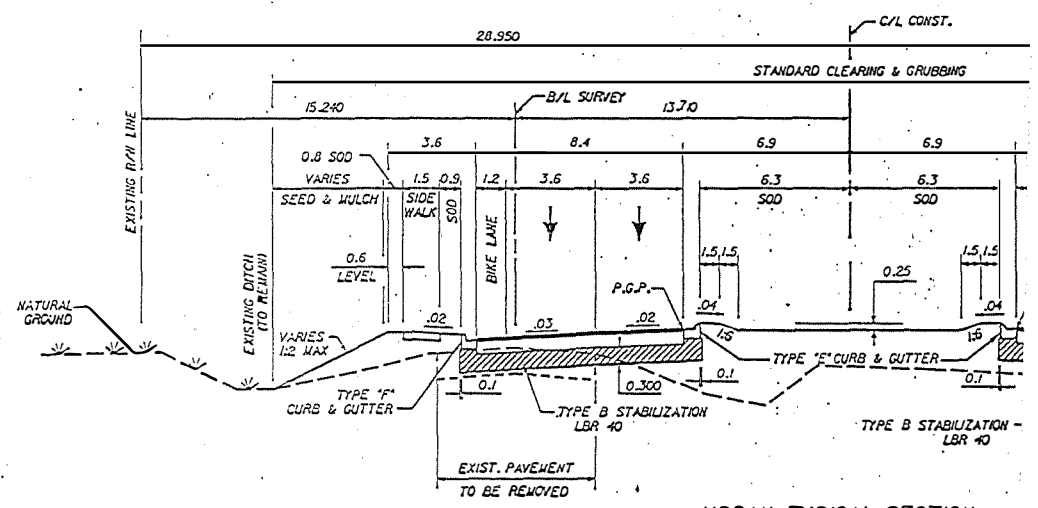
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

MA Moreland Altobelli Associates, Inc.

FLORIDA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION

DATE: 1/1/98



URBAN TYPICAL SECTION
S.R. 30
STA. 146+51.016 TO STA. 170+87.709 C/L

NEW CONSTRUCTION

OPTIONAL BASE GROUP 9 WITH
TYPE 5 STRUCTURAL COURSE (80 mm) AND FRICTION COURSE FC-

OPTIONAL BASE GROUP PERMITTED OPTION CODE

260 LIME ROCK LBR 100	109
150 ASC-3 (MIN MARSHALL STABILITY 4500)	109

WPI # 3119117
FM # 2206371

SR 30 (us 98) from .6 mile w. of
Mach Bayou to CR 30A west

WPI # 3119122
~~FM #~~ FM # 2206421

SR 30 (us 98) from CR 30A west to
SR 83 (301)

72 (24-HR.)

NOT TO SCALE

TYPED BY

DATE		BY		DESCRIPTION		DATE		BY		DESCRIPTION	

DATE: 10-03-97

MA Moreland Altobelli Associates, Inc.

FLORIDA DEPARTMENT OF
TRANSPORTATION

TYPICAL SECTION



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
PANAMA CITY REGULATORY OFFICE
475 HARRISON AVENUE, SUITE 202
PANAMA CITY, FLORIDA 32401-2731

Regulatory Division
North Permits Branch
Panama City Regulatory Office
199904932(IP-DH)
Modification #1

June 21, 2001

Florida Department of Transportation
c/o Frank Roberts
Post Office Box 607
Chipley, Florida 32428

Dear Mr. Roberts:

Reference is made to your letter dated June 4, 2001, in which you requested to modify Department of the Army (DA) permit number 199904932(IP-DH). The permit authorizes the Florida Department of Transportation (FDOT) to fill 81.87 acres of wetlands for the widening of US Highway 98 from Mack Bayou Road, eastward to US Highway 331 in Walton County, Florida. The road widening project includes the upgrading of service of several intersections and intersecting roads along the project corridor.

You requested that the Mack Bayou Road portion of the authorized project be modified to allow the temporary placement of fill material in wetlands for the detouring of Mack Bayou Road during the installation of a new culvert. Approximately 0.1 acre of wetland would be impacted. You stated that the placement of the fill would be temporary, that the wetland would be restored, and that FDOT would be willing to mitigate for the impacts. No details were provided for fill the removal of the temporary fill or for the wetland restoration.

The impacts of the proposed modification on navigation and the environment have been evaluated and found to be insignificant with the incorporation of the special conditions listed below. The area of wetlands permitted to be filled by DA permit #199904932(IP-DS) would increase from 81.87 to 81.97 acres. The permit is hereby modified in accordance with your request, the attached drawing, and the required additional permit special conditions, as follow:

RECEIVED
JUN 25 2001
NWEFMD
REGULATORY

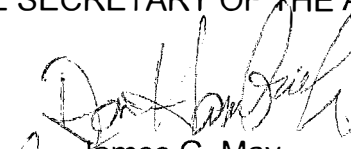
3. Mitigation for the impact of 0.1 acres of wetlands for the temporary detour road at Mack Bayou is required and shall be included in the mitigation projects for Department of the Army permit#199904932(IP-DH), as specified in Special Condition 2 of the permit.

4. Within 60 days of the date of this modification letter, the permittee shall have submitted to the Corps a plan, that has been approved by the Corps, for the restoration of the wetlands impacted by the temporary detour road as described in this modification letter. The plan must include and specify: success criteria, monitoring, and plant species used to revegetate the restored area. The restoration plan, as approved by the Corps, must be successfully implemented by the permittee.

You should attach this letter to the permit. All other conditions, limitations, and stipulations of permit number 199904932(IP-DH) not specifically changed by this modification remain in effect.

Thank you for your cooperation with our permit program.

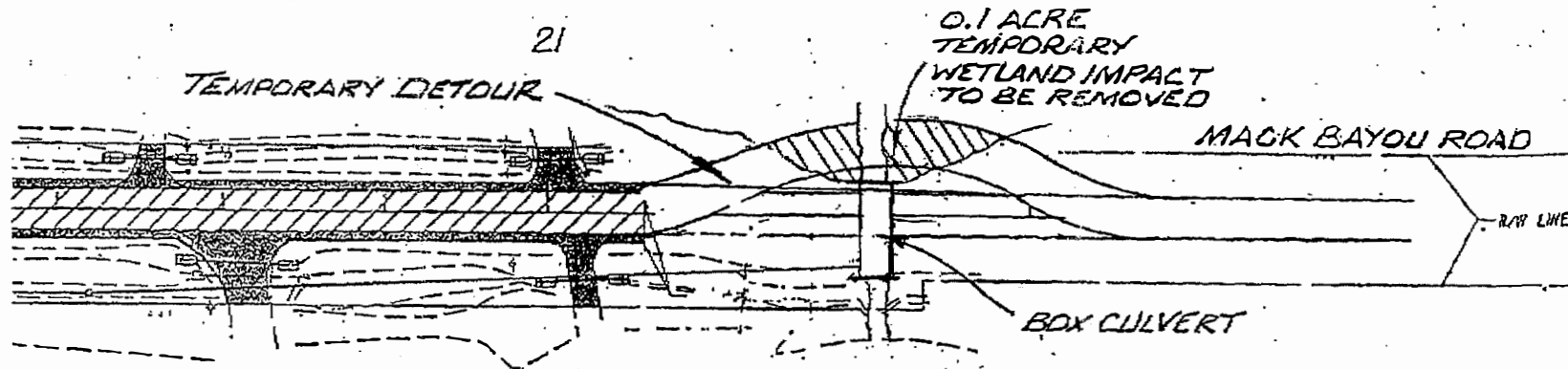
BY AUTHORITY OF THE SECRETARY OF THE ARMY:


James G. May
Colonel, U.S. Army
District Engineer

Copy Furnished:

DEP, Penacola, SLERP
USFWS, Panama City (Cooper)
NWFWMD, Havana (Cairns)

RECEIVED
JUN 25 2001
NWFWMD
REGULATORY



DETOUR MODIFICATION
 ON MACK BAYOU ROAD
 DEP PERMIT NO. 66-016371
 COE PERMIT NO. 199904932 (IP-DH)

FEDERAL AID PARTICIPATING

FINANCIAL PROJECT ID	SHEET NO.
220637-2-52-01	46



FLORIDA DEPARTMENT OF TRANSPORTATION

RECEIVED

JUN 25 2001

AWERND

PROJECT MANAGER



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
PANAMA CITY REGULATORY OFFICE
475 HARRISON AVENUE, SUITE 202
PANAMA CITY, FLORIDA 32401-2731



Regulatory Division
North Permits Branch
Panama City Regulatory Office
199904932(IP-DH)
Modification #2

September 6, 2002

Florida Department of Transportation
c/o Mr. Lyle Seigler
Post Office Box 607
Chipley, Florida 32428

Dear Mr. Seigler:

Reference is made to your letters dated October 26, 2001, and March 26, 2002, in which you requested to modify Department of the Army (DA) permit number 199904932(IP-DH). The permit, as previously modified, authorizes the Florida Department of Transportation (FDOT) to fill 81.97 acres of wetlands for the widening of US Highway 98 from Mack Bayou Road, eastward to US Highway 331 in Walton County, Florida. The road-widening project includes the upgrading of service of several intersections and intersecting roads along the project corridor.

You requested that the permit be modified to authorized the construction of three stormwater treatment facilities, identified and described as follows:

- 1) Mack Bayou Road stormwater treatment pond site: 3.3 acres of mechanically landcleared wetlands to be restored with no permanent direct impacts to wetlands.
- 2) La Canosa Road stormwater treatment pond site: All wetlands on site to be impacted: 0.53 acres.
- 3) County Road 393 stormwater treatment pond site: 6.07 acres of mechanically landcleared wetlands to be restored and 1.3 acres of wetlands to be permanently impacted.

The impacts of the proposed modification on navigation and the environment have been evaluated and found to be insignificant with the incorporation of the special conditions listed below. The area of wetlands permitted to be filled by DA permit #199904932(IP-DH) would increase from 81.97 to 83.80 acres. The permit is hereby modified in accordance with your request, the attached drawings, and the required additional permit special conditions, as follows:

5. Mitigation for the permanent impact of 1.83 acres of wetlands for the construction of stormwater treatment ponds located at and identified as the Mack Bayou Road, La Canosa Road, and County Road 393 sites, and mitigation for the temporary impact and temporal lag of restoring wetlands at the Mack Bayou Road, and County Road 393 sites, is required and shall be included in the mitigation projects for Department of the Army permit #199904932(IP-DH), as specified in Special Condition 2 of the permit.

6. The permittee shall successfully implement the following restoration plan for the Mack Bayou Road and County Road 393 stormwater treatment pond sites:

a. The wetland area to be restored at the Mack Bayou Road site is 3.3 acres in size, and the wetland area to be restored at the County Road 393 site is 6.07 acres in size, as shown on the attached modification #2 drawings, sheets 2 and 6 of 6.

b. Both restoration areas shall be planted with a distribution of the following wetland species at a frequency of 400 to 600 plants per acre: *Taxodium sp.*, *Acer rubrum*, *Magnolia virginiana*, *Nyssa sylvatica* var. *biflora*, *Ilex myrtlefolia*, and *Ilex coriacea*. The distribution of planted species shall reflect their natural habitat needs and provide a diverse vegetative community within the restoration sites.

c. All vegetation when planted, shall be no smaller than containerized one (1) gallon saplings.

d. The complete restoration planting shall occur in the first seasonally appropriate planting period (late September through December, or March through June) after completion of the ponds at a particular site. Planting must be completed either by December 31 for the September to December planting period or June 30 for the March to June planting period. The permittee shall notify the Corps in writing within 30 days of issuance of this permit modification; or within 30 days after completion of a stormwater pond site, if construction of the stormwater treatment pond has not yet been completed by the

issuance date of this modification; that construction of the stormwater pond is completed, when the planting shall commence, and shall be finished. The permittee shall provide the following notification to the Corps in writing within 30 days of the completion of the planting at a particular site; or if the planting has already been completed, within 30 days of the issuance date of this modification. This notification shall include an inspection report that describes the planting, and details the number of plants by species planted on each site. The inspection report shall also include photographs of the post-planted site, at designated points on the site, and at a sufficient number to provide a good visual representation of the vegetative condition of the entire site. The report shall include a site plan that shows the location of the photograph points.

e. The permittee shall monitor the sites for five years and ensure that a minimum of 80% survival rate of the species listed above is maintained at the yearly anniversary of the initial planting date, or the date of this modification, whichever is later. If the survival rate falls to less than 80%, the permittee shall replant to 100% of the initial planting. The permittee shall also assure that less than 1% coverage consists of exotic or invasive species. Each year within 30 days of the anniversary of the notification and inspection report referenced in paragraph d. above, the permittee shall inspect and provide to the Corps an inspection report, as described in paragraph d. The report shall also describe the survival rate for the plantings and the percentage coverage of exotic/invasive species.

f. For the fifth year of monitoring, if 80% plant survival of the planted species has not been maintained, or if more than 1% of coverage consists of exotic and/or invasive species, the permittee must submit and carry out a remedial action plan, subject to the Corps' approval. The permittee shall submit the remedial action plan with the inspection report for the fifth year within 30 days of the anniversary of the notification and inspection report referenced in paragraph d. above. The restored areas shall be maintained in perpetuity.

You should attach this letter to the permit. All other conditions, limitations, and stipulations of permit number 199904932(IP-DH) not specifically changed by this modification remain in effect.

Thank you for your cooperation with our permit program.

BY AUTHORITY OF THE SECRETARY OF THE ARMY:

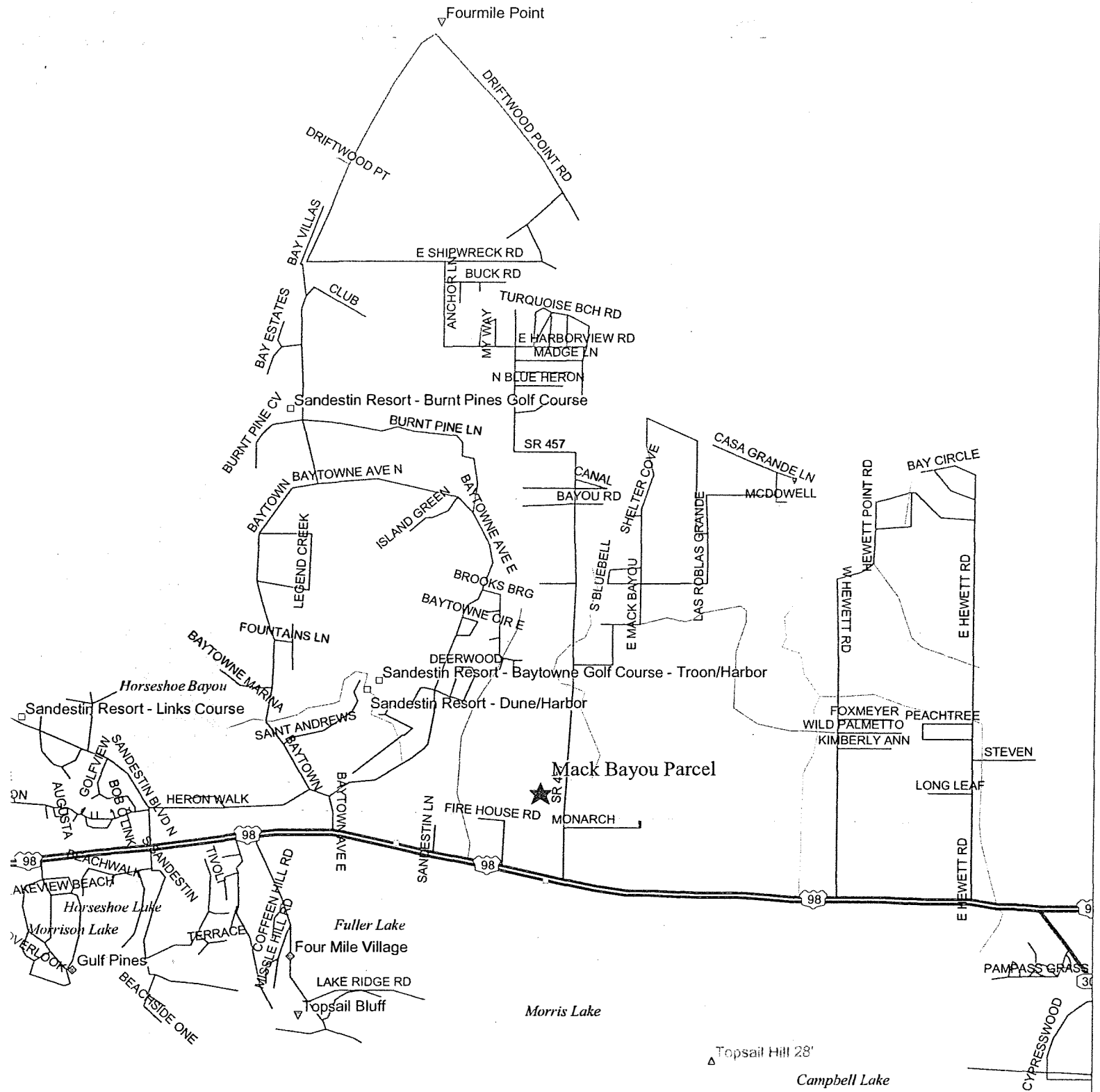
A handwritten signature in black ink that reads "Marie S. Burns". The signature is written in a cursive, flowing style.

for James G. May
Colonel, U.S. Army
District Engineer

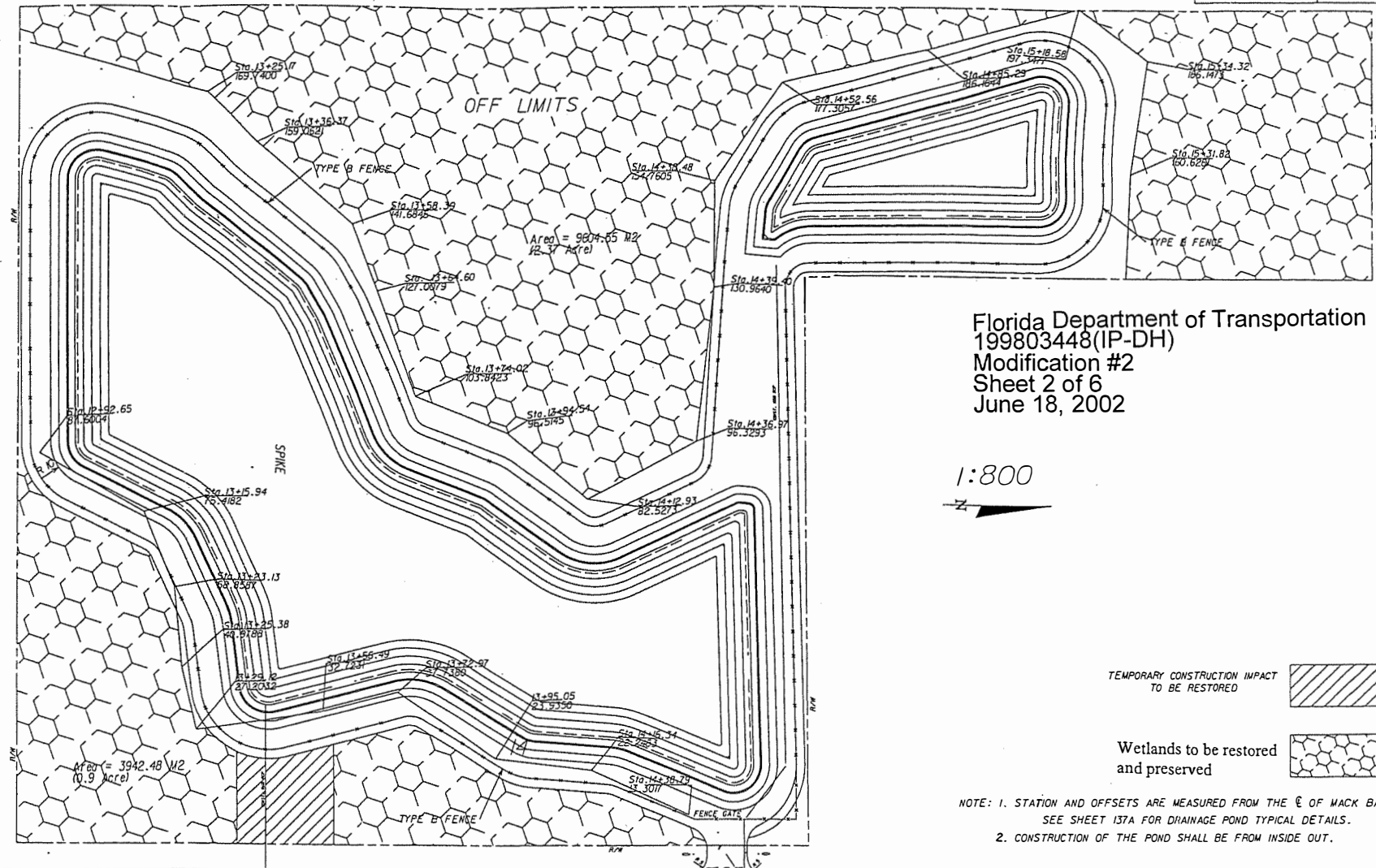
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DEP, Pensacola, SLERP
USFWS, Panama City (Mittiga)
NMFS, Panama City

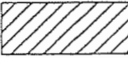
✓ NWFWMMD, Havana (Cairns)

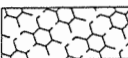


Florida Department of Transportation
 199803448(IP-DH)
 Modification #2
 Sheet 1 of 6
 June 18, 2002



Florida Department of Transportation
 199803448(IP-DH)
 Modification #2
 Sheet 2 of 6
 June 18, 2002

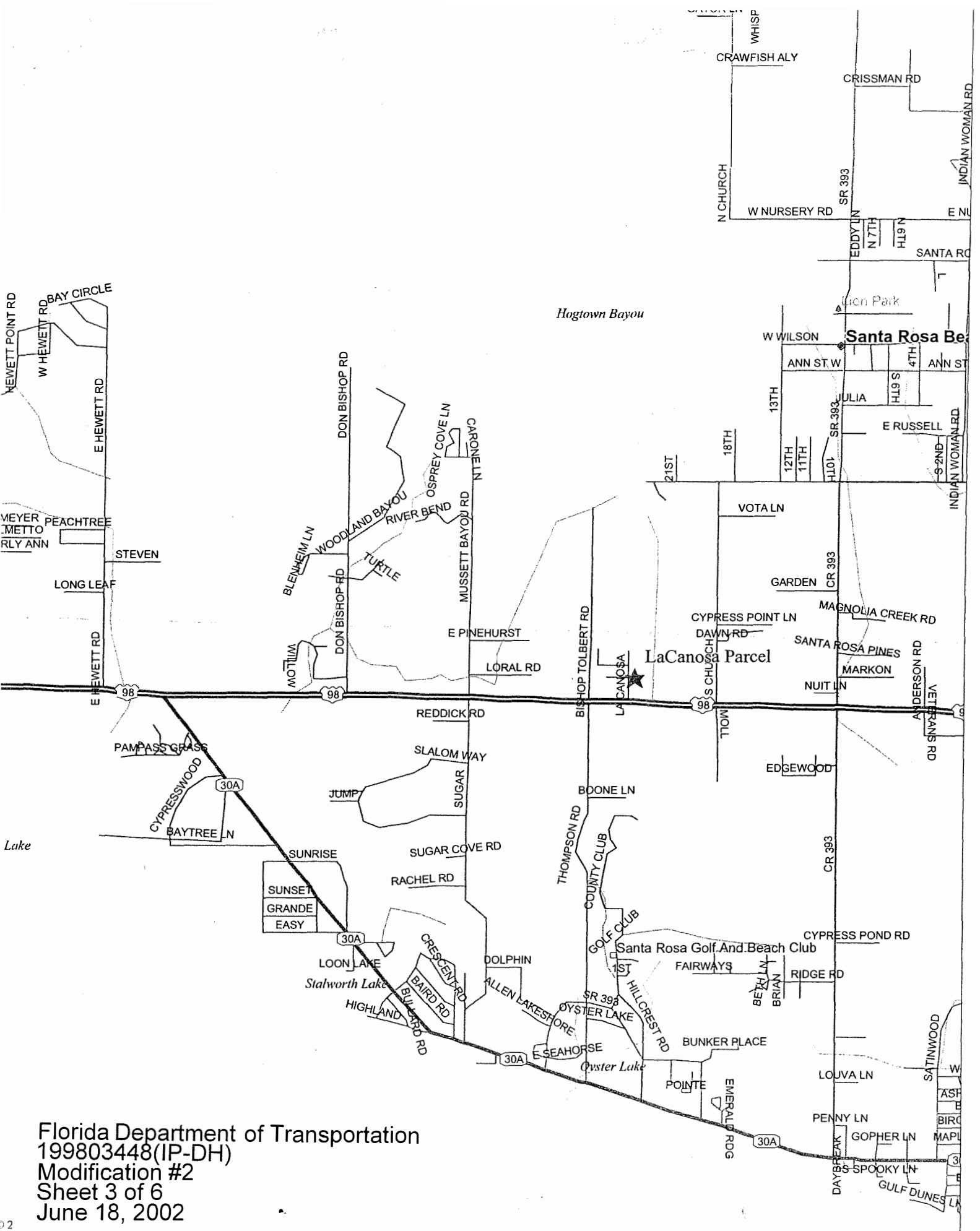
TEMPORARY CONSTRUCTION IMPACT TO BE RESTORED 

Wetlands to be restored and preserved 

- NOTE: 1. STATION AND OFFSETS ARE MEASURED FROM THE C OF MACK BAYOU ROAD. SEE SHEET 137A FOR DRAINAGE POND TYPICAL DETAILS.
 2. CONSTRUCTION OF THE POND SHALL BE FROM INSIDE OUT.

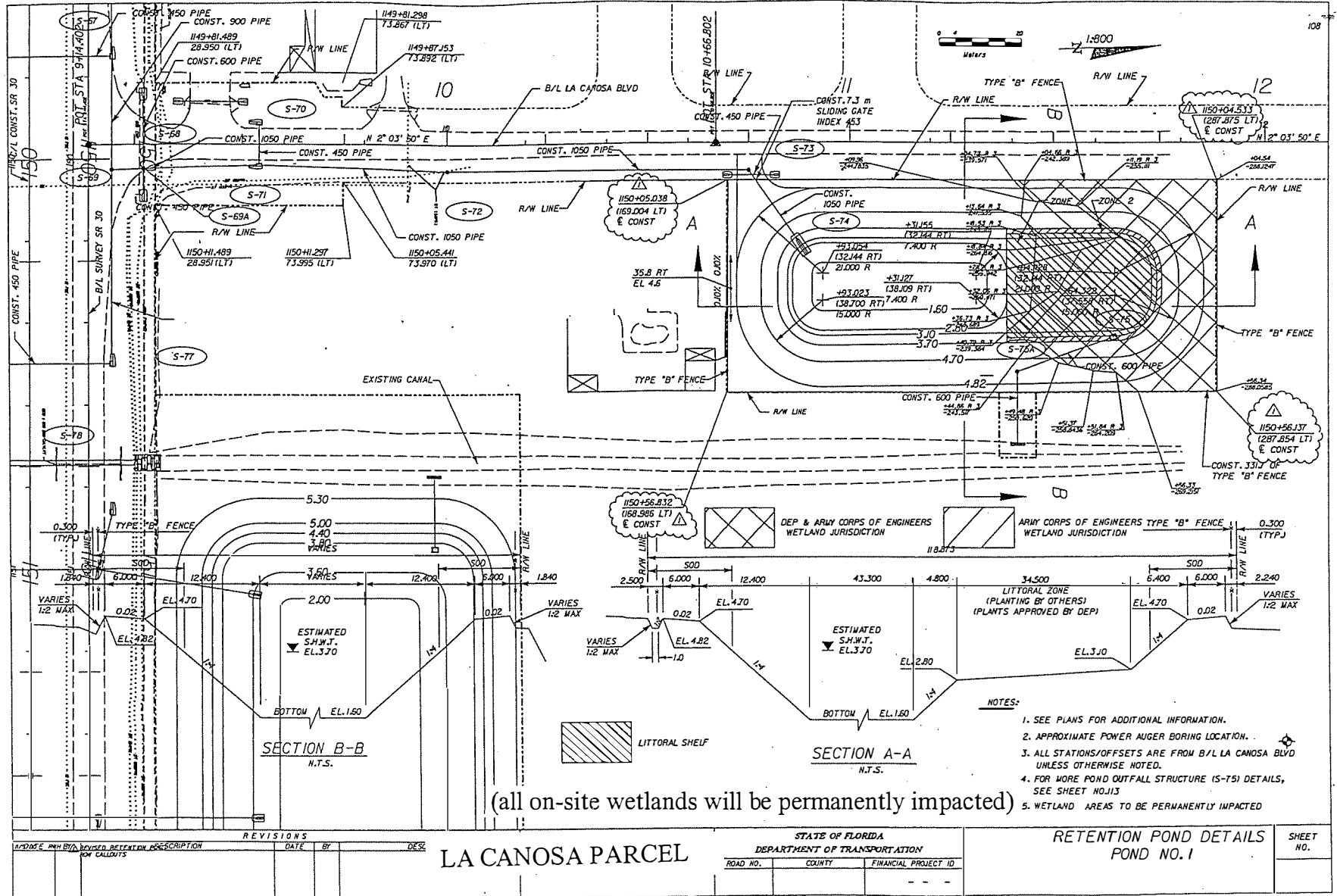
REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

MACK BAYOU PARCEL RETENTION POND DETAIL



Florida Department of Transportation
 199803448(IP-DH)
 Modification #2
 Sheet 3 of 6
 June 18, 2002

Fla Department of Transportat
 199803448(IP-DH)
 Modification #2
 Sheet 4 of 6
 June 18, 2002



Live Oak Point

Alligator Point

Hogtown Bayou

Lion Park

Santa Rosa Beach

CHAT HOLLY RD

CHAT HOLLY RD

CHAT HOLLEY RD

CR 393 Parcel

Campbell Lake

30A

Stabworth Lake

Santa Rosa Golf And Beach Club

30A

Winter Lake

CR 393

Draper Lake

Blue Mountain 26'

Blue Gulf Beach

Blue Mountain Beach

30A

Little Redfish Lake

Alligator Lake

Grayton

283

30

331

331

98

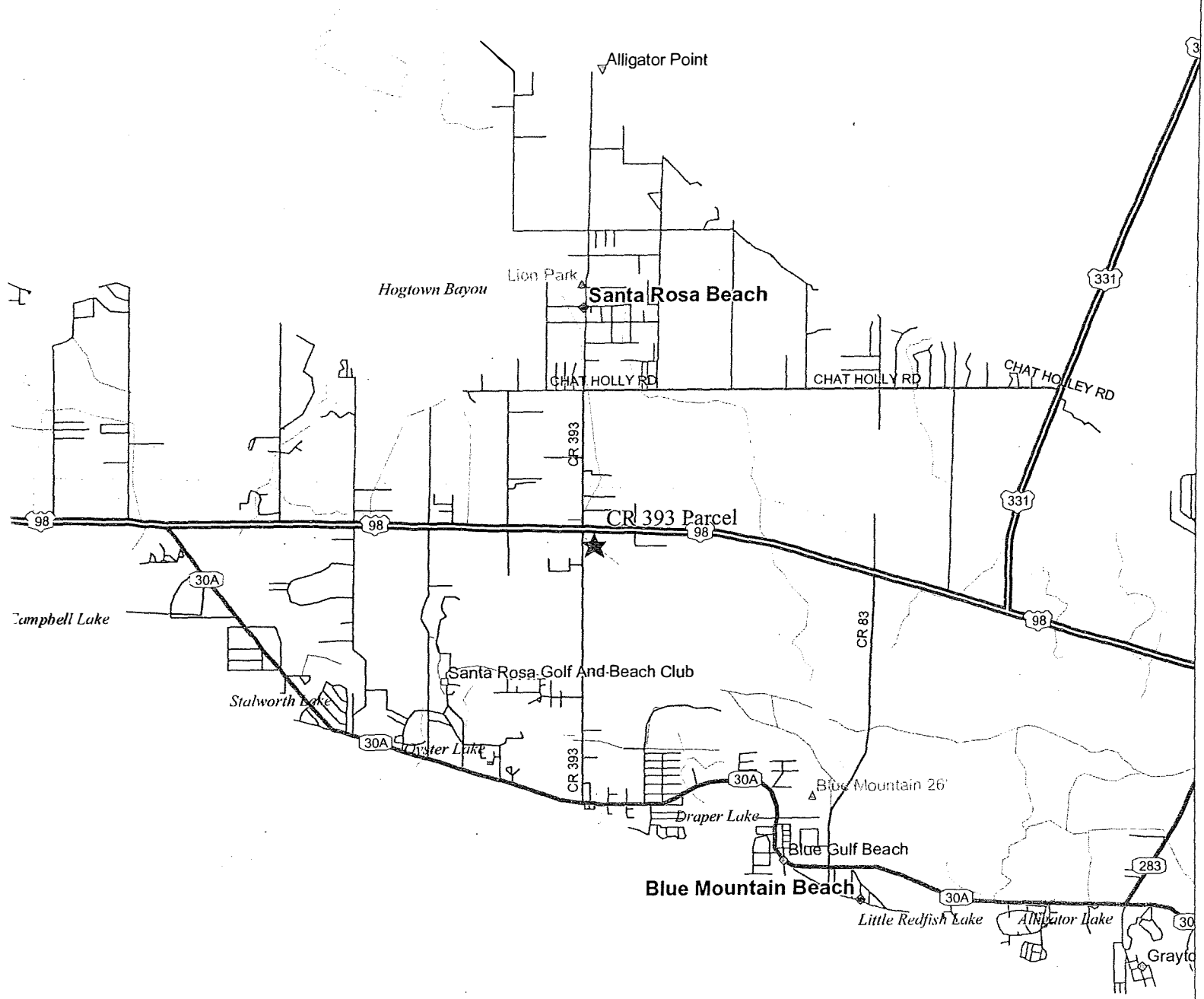
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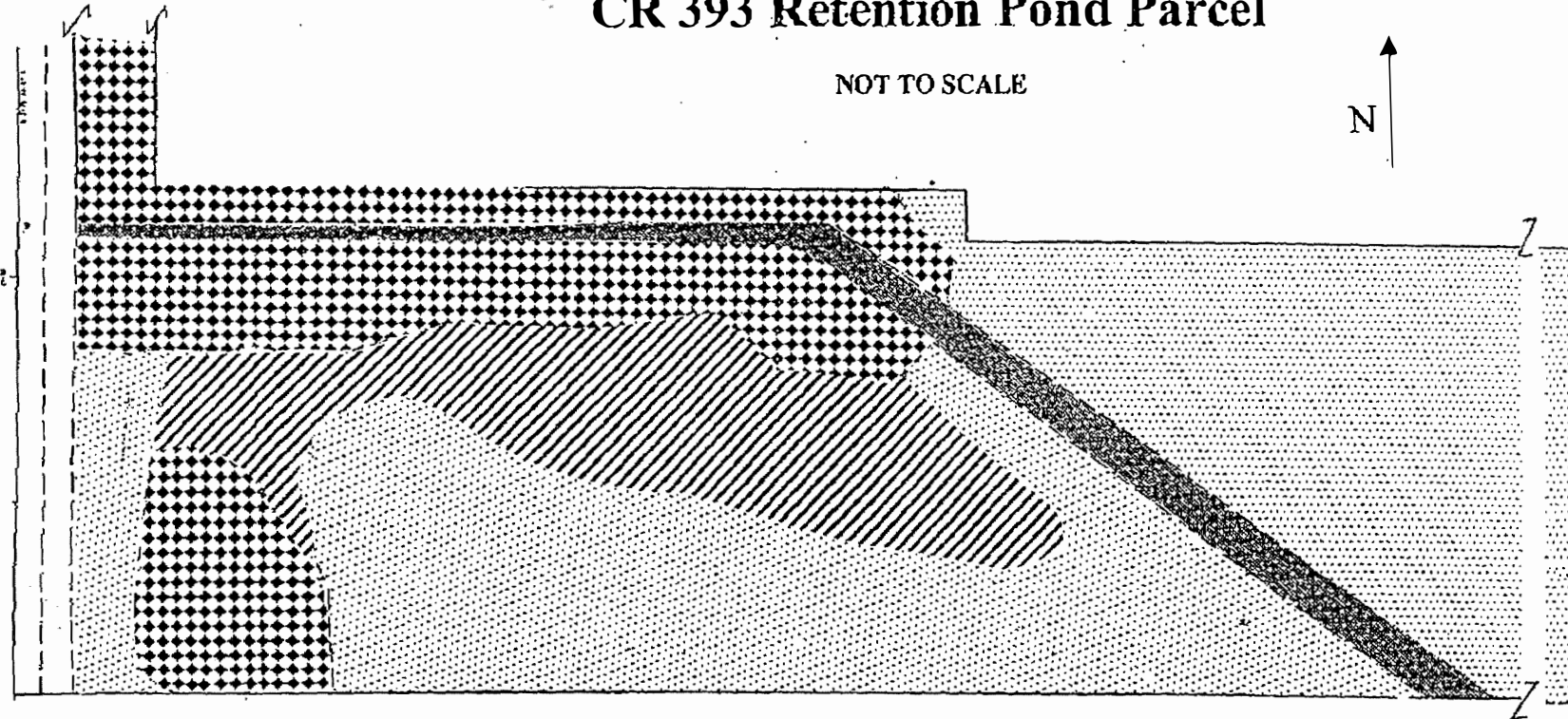
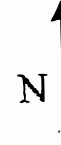
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
Florida Department of Transportation
199803448(IP-DH)
Modification #2
Sheet 5 of 6
June 18, 2002





CR 393 Retention Pond Parcel

NOT TO SCALE



 - ACOE Jurisdictional Wetlands to be restored and preserved (±6.07 ac.)

 - ACOE Jurisdictional Wetlands to be permanently impacted by retention pond (±1.3 ac.)

 - ACOE Jurisdictional Ditch (±1.2 ac.)

 - Uplands (±1.9 ac.)

Florida Department of Transportation
199803448(IP-DH)
Modification #2
Sheet 6 of 6
June 18, 2002



DEPARTMENT OF THE ARMY
JACKSONVILLE DISTRICT CORPS OF ENGINEERS
P. O. BOX 4970
JACKSONVILLE, FLORIDA 32232-0019

REPLY TO
ATTENTION OF

Regulatory Division
Enforcement Branch
Permit Number: 199904932 (AK)

Date of Notice: **MAY 07 2001**

PUBLIC NOTICE

1. **TO WHOM IT MAY CONCERN:** I, Colonel James G. May, District Engineer, Jacksonville District, propose to issue an Order assessing a Class I Administrative Penalty against the Florida Department of Transportation, for a violation of a permit granted under the Clean Water Act.

2. **PERMIT INVOLVED AND ALLEGED VIOLATION:** Department of the Army (DA) permit number 199904932 was issued to the Florida Department of Transportation on May 22, 2000. The permit authorized the discharge of fill material over 87.87 acres of wetlands to facilitate the widening of US Highway 98 from Mack Bayou Road east to US Highway 331. The project is located along existing route of US Highway 98 in Section 25, Township 2 South, Range 21 West, Sections 25, 26, 27, 28, 29 & 30, Township 2 South, Range 20 West and Sections 31 & 36, Township 2 South, Range 19 West, Walton County, Florida.

The permit was violated as follows:

The Florida Department of Transportation discharged fill material over an approximate 10.5 acres of waters of the United States outside of the authorized footprint.

3. **AUTHORITY FOR PROCEEDING:** This administrative penalty proceeding is initiated under the authority of 33 U.S.C. §1319(g) and 33 CFR Part 326.6. The procedure for assessing civil penalties in cases such as this is set out in the statute and the regulation. Following the discovery and investigation of a violation of a permit, notice is given to the responsible party, the appropriate State agency, and the public. The responsible party, the State, or any member of the public may file comments within 30 days. If requested by the responsible party, a hearing will be held before a Presiding Officer who will submit a report and recommend a decision to me. I will issue a Final Order on the case to the responsible party. Public participation in the hearing is permitted if a hearing is held.

4. **PENALTY PROPOSED:** The amount of the penalty proposed in this case is \$25,000. However, this proposal is subject to revision in the interests of justice after all evidence and comments have been received and reviewed. The amount of the penalty that I am authorized to assess as a Class I penalty is \$10,000 per violation and not more than \$25,000 total. In a case involving multiple violators, each violator is subject to a separate, not joint, penalty.

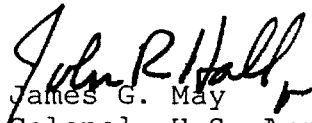
5. **REQUEST FOR HEARING:** The responsible party has 30 days following receipt of this formal notice of Proposed Penalty to request a hearing. Written request, by the responsible party, for a hearing should be directed to me within this designated comment period and must state the specific reasons for requesting a public hearing. The request should specify, in summary form, the factual and legal issues in dispute and the specific grounds for defense. The responsible party has a right to present evidence at the hearing; however, he may not challenge the permit condition(s) or limitation(s), which is the subject matter of this order.

6. **COMMENTS/ADMINISTRATIVE RECORD:** During the 30-day comment period, any person may submit written comments on the Proposed Penalty Order. These comments should be sent to me within this designated comment period. Any submitted comments will be included in the administrative record relating to the Proposed Order. All information submitted by the responsible party and persons commenting on the Proposed Order will be placed in the administrative record which will be available for inspection during regular business hours at the Regulatory Division Office, Jacksonville District, U.S. Army Corps of Engineers. (The administrative record is subject to provisions of law restricting the disclosure of confidential information.)

7. **PUBLIC HEARING:** The responsible party and all persons who file comments will be given notice of any hearing held on this case. The responsible party and all commenters will have a reasonable opportunity to be heard and to present evidence at such hearing, if a hearing is held.

8. **FINAL DECISION:** If the responsible party does not request a hearing, I may issue the Final Order on this violation on or after 30 calendar days following receipt of this formal notice by the responsible party.

9. **POST DECISION HEARING/APPEAL:** Any Final Order issued under these procedures shall become effective 30 calendar days following its issuance unless (1) a petition to set aside the Order and to hold a hearing is filed by any person who commented on the Proposed Order and the petition is granted, or (2) an appeal to the United States District Court is taken under 33 U.S.C. §1319(g)(8).


James G. May
Colonel, U.S. Army
District Engineer

REGIONAL MITIGATION PLAN

BACKGROUND INFORMATION							
Water Management District:	Northwest Florida Water Management District						
Mitigation Project Name:	Devil's Swamp			Project Number: (to be provided by DEP)			
Project Manager:	Duncan Cairns			Phone Number:		850-539-5999	
County(s):	Walton						
Location (central lat/long):	30° 22' 00" North / 86° 15' 00" West						
IMPACT INFORMATION							
DOT Work Program Item (WPI):	3119117	ERP #:		COE #:			
Drainage Basin(s):	Choctawhatchee River & Bay						
Water Body(s):	Choctawhatchee Bay, Hogtown Bayou				SWIM Water Body?	Yes	
Acres and Types of impact to be offset:	21.8 Acres		615		(Fluccs code)		
(Provide the above information for each WPI project, as needed.)							

MITIGATION ENVIRONMENTAL INFORMATION							
Mitigation Type:	Creation	<input checked="" type="checkbox"/>	Restoration	<input checked="" type="checkbox"/>	Enhancement	Preservation	Mitigation Area (acres): Up to 110
SWIM Project?	No	Aquatic Plant Control Project?	No	Exotic Plant Control Project?	No		
Mitigation Bank?	No	If yes, give FDEP/WMD Mitigation Bank Permit #:			COE #:		
Drainage Basin(s):	Choctawhatchee River						
Water Body(s):	Choctawhatchee River				SWIM Water Body?	Yes	
Project Description							
A. Overall project goal: To enhance and/or restore wetlands at Devil's Swamp.							
B. Brief description of current condition: Devil's Swamp has been severely degraded by logging, drainage, and forestry operations (e.g., bedding within wetlands). These activities have resulted in loss of wetland hydrology, vegetation, and habitat.							

C. Brief description of proposed work:	Restoration of Devil’s Swamp by prescribed burns, planting of appropriate wetland species, elimination of drainage ditches, and regrading, as necessary, of bedding associated with pine production.
D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s):	Wetland restoration at Devil’s Swamp will yield significant environmental “lift” to various wetland types (i.e., FLUCCS 620 –Wetland Coniferous Forest, FLUCCS 630 – Wetland Forested Mixed, and FLUCCS 690 – Wetland Scrub Shrub).
E. Brief explanation of why a mitigation bank was/was not chosen, including a discussion of cost:	No permitted mitigation banks currently exist in northwestern Florida.
F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body:	No appropriate or applicable SWIM project exists.

MITIGATION PROJECT IMPLEMENTATION			
Entity responsible for construction:	Northwest Florida Water Management District		
Contact Name:	Duncan Cairns	Phone Number:	850-539-3999
Entity responsible for monitoring and maintenance:	Northwest Florida Water Management District		
Proposed timeframe for implementation	Commence Date:	TBD	Complete Date: TBD
Total Project Cost (\$): (attach itemized cost estimate)	Up to \$ 1,635,000		

Attachments	
X	1. Detailed description of existing site and proposed work. Table 3 or Section F of the ERP application may be used as guidelines.
X	2. Recent aerial photograph with date and scale.
	3. Location map and design drawings of existing and proposed conditions.
	4. Detailed schedule for work implementation, including any and all phases.
	5. Proposed success criteria and associated monitoring plan.
	6. Long-term maintenance plan
	7. Detailed explanation of how this work serves to offset the impacts of the specified DOT project(s).

ATTACHMENT FOR DEVIL'S SWAMP MITIGATION

The US 98 road project (WPI 3119117) from 0.6 miles west of Mack Bayou east to CR 30A West will impact 21.8 acres of wetlands in south Walton County. The FDOT District-3 Environmental Impact Inventory (4/28/99) classifies the impact wetlands as low quality, FLUCCS 615 -- Stream and Lake Swamps. Mitigation for these impacts will consist of restoration activities (e.g., hydrologic, re-vegetation, prescribed burns, etc.) at Devil's Swamp. The proposed mitigation area is proximate to the wetland impacts caused by the FDOT project (Figure 1).

Devil's Swamp Restoration

This area, owned by St. Joe / Arvida Development Corporation, is approximately 3,100 acres. It is bordered to the north by NFWFMD-owned land (Choctawhatchee River floodplain), and to the south by the Intracoastal Waterway. Based on the FDEP (Florida Department of Environmental Protection) landuse coverage, approximately 1,040 acres are wetlands (Figure 2), although preliminary field reconnaissance indicated that the actual jurisdictional wetland acreage is somewhat greater. Devil's Swamp is approximately 10-15 feet higher in elevation than the Choctawhatchee River floodplain (Figure 3). During wet periods with locally high rainfall amounts, water from Devil's Swamp will drain (via intermittent streams on NFWFMD-owned lands) to the Choctawhatchee River floodplain. However, during periods of extreme high river flow and high tides, water from the Choctawhatchee should flow to the swamp (via the intermittent streams on NFWFMD-owned lands to the north). The wetlands within Devils Swamp consist of FLUCCS 620 – Wetland Coniferous Forest, FLUCCS 630 – Wetland Forested Mixed, and FLUCCS 690 – Wetland Scrub Shrub. Devil's Swamp has high potential for hydrologic restoration, re-vegetation, and significant "environmental lift."

Much of Devil's Swamp has been ditched and cut-over (Figure 4). The western portion of Devils Swamp may have been particularly impacted by hydrologic alteration (Figure 5). Preliminary reconnaissance indicated large potential for environmental lift (i.e., several hundred wetland credits) within Devil's Swamp.

Restoration of Devil's Swamp would include re-forestation with appropriate wetland species, pre-scribed burns, plugging or filling in of ditches and reconnecting flow toward the natural drainages to the Choctawhatchee floodplain by the construction of low-water crossings. Relict bedding from forestry operations might also be graded in certain areas. Much of the surrounding uplands have been clear-cut. Eventual restoration of these upland areas to natural conditions (pine flatwoods or longleaf pine / wiregrass community) would provide a buffer of high ecological value for the wetland areas being restored for mitigation purposes. The Devil's Swamp area also includes small, relatively isolated depression wetlands that need hydrologic restoration and are critical for the ecology of many organisms that use wetlands.

Improvement of the hydrologic connections between Devil's Swamp and the Choctawhatchee River floodplain, coupled with restoration to a natural condition, will provide a diverse and ecologically important wetland habitat.

St. Joe / Arvida has expressed a possible interest in negotiation of ownership of this land or the establishment of a conservation easement.

Mitigation Credits

We anticipate needing to restore 55-110 acres at Devil's Swap to obtain 21.8 wetland credits needed to offset the wetland losses of the US 98 project (WPI 3119117).

Monitoring

Appropriate monitoring will be conducted to document the success of the mitigation, or in the case of failure, provide data to determine why the mitigation failed. Monitoring may include the establishment of vegetation transects, time sequence photography, possible installation of shallow groundwater wells, and the placement of recording and non-recording water level staff gages.

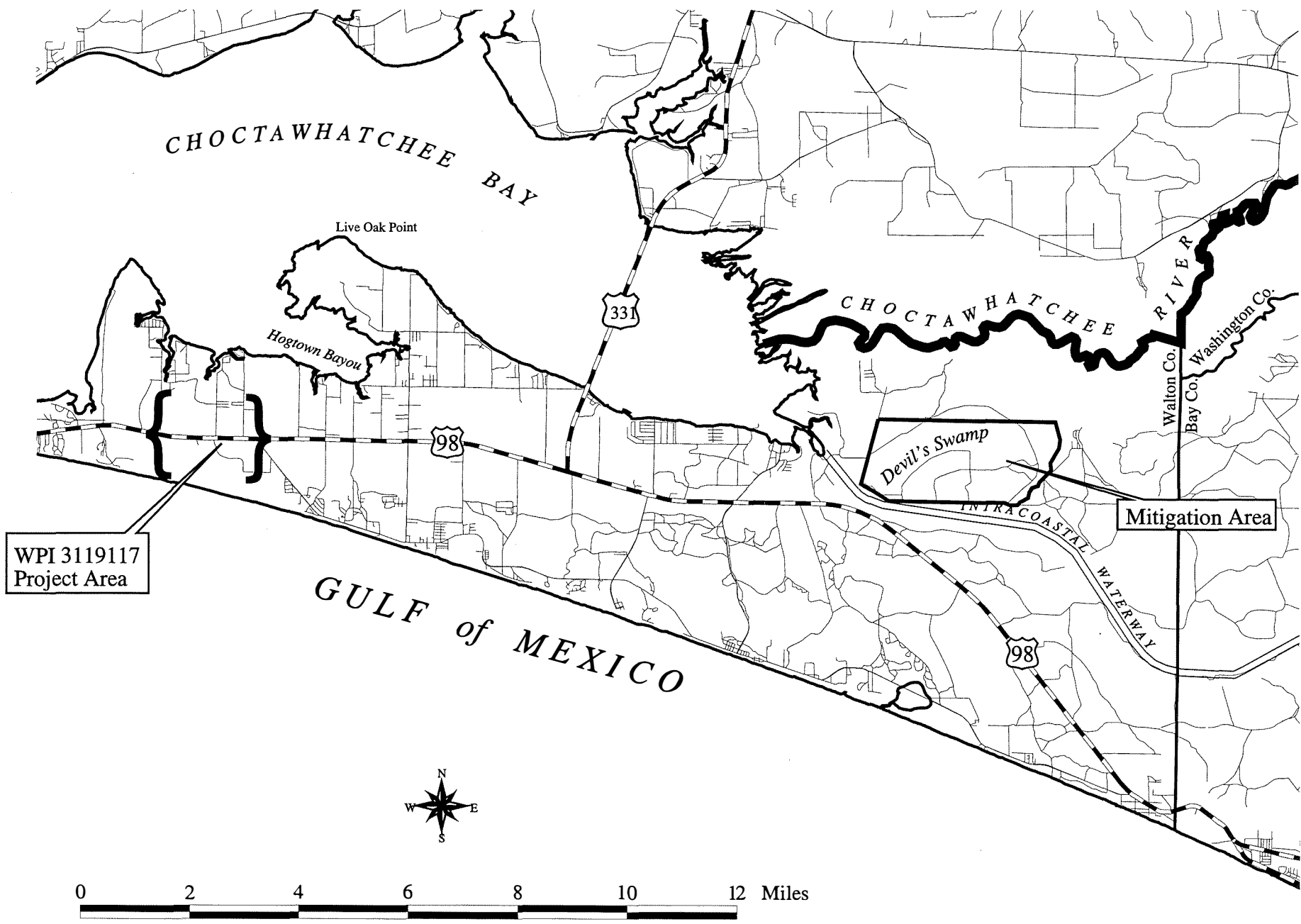
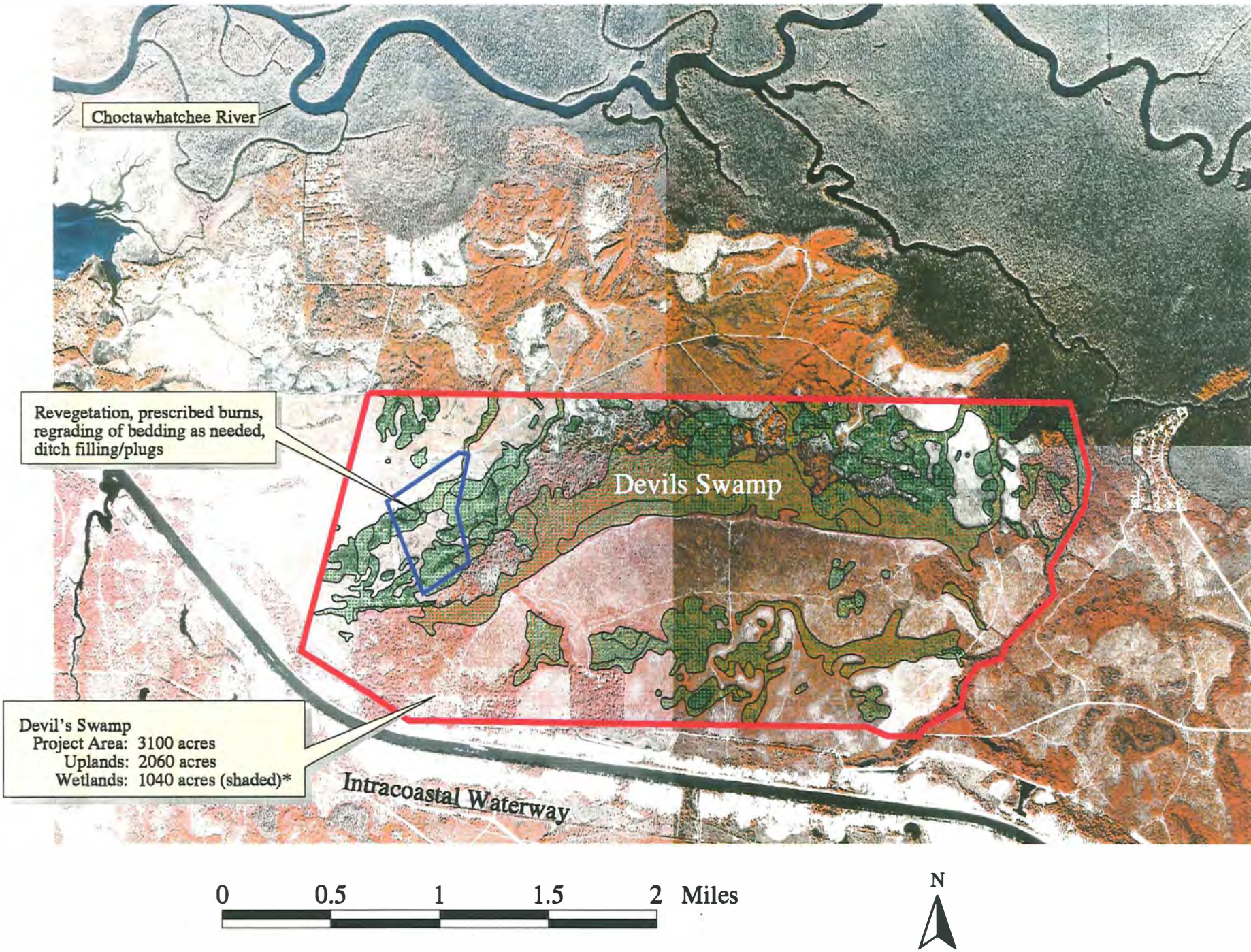


Figure 1 - Location Map

Figure 2 - Devil's Swamp Mitigation Area



*Wetland acreage from FDEP landuse coverage. Actual jurisdictional wetland acreage may be substantially greater.

Figure 3 - Topography of Devil's Swamp

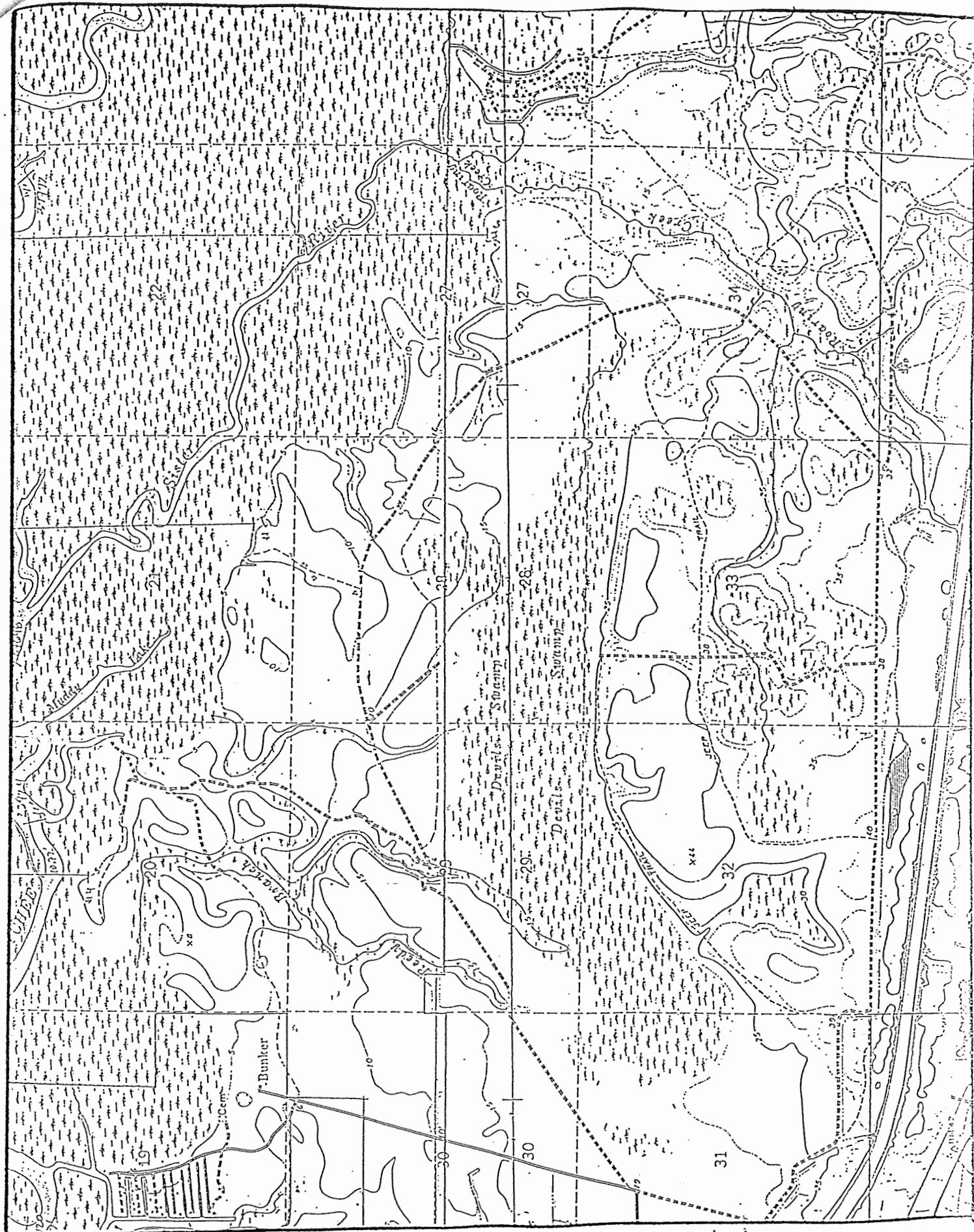
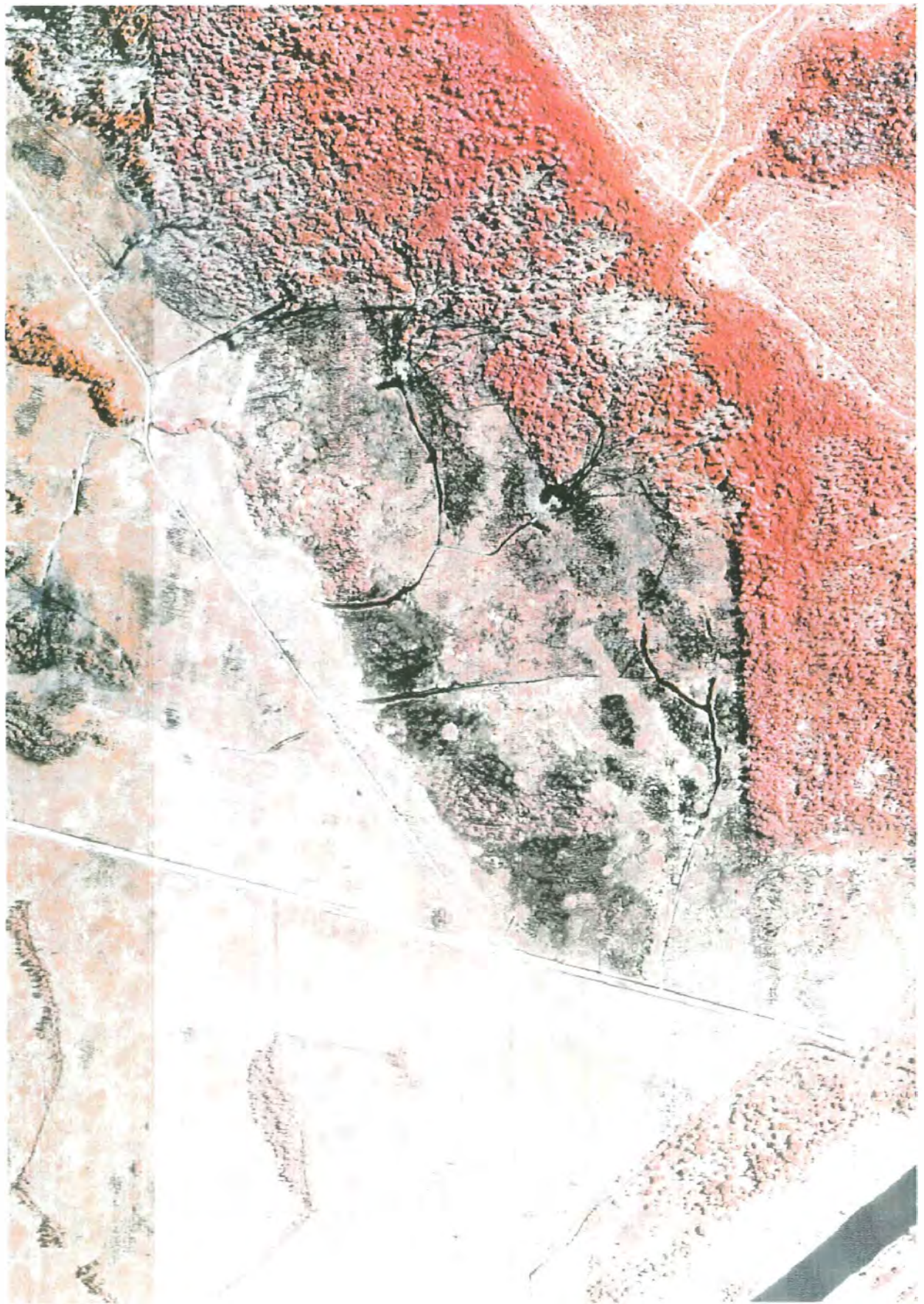


Figure 4 – Logged Area of Devil’s Swamp



Figure 5 - Western Portion of Devil's Swamp Mitigation Area



1 Miles

0.75

0.5

0.25

0



Potential Wetland Mitigation Credits

(to offset WPI 3119117)

Mitigation Area	Preservation Acreage	Restoration Acreage	Mitigation Credits Applied
Devil's Swamp	0	55-110	22

REGIONAL MITIGATION PLAN

BACKGROUND INFORMATION							
Water Management District:	Northwest Florida Water Management District						
Mitigation Project Name:	South Walton County Project			Project Number: (to be provided by DEP)			
Project Manager:	Duncan Cairns			Phone Number:		850-539-5999	
County(s):	Walton						
Location (central lat/long):	30° 22' 00" North / 86° 15' 00" West						
IMPACT INFORMATION							
DOT Work Program Item (WPI):	3119122	ERP #:		COE #:			
Drainage Basin(s):	Choctawhatchee River & Bay						
Water Body(s):	Choctawhatchee Bay, Hogtown Bayou				SWIM Water Body?	Yes	
Acres and Types of impact to be offset:	60.07 Acres		615		(Fluccs code)		
(Provide the above information for each WPI project, as needed.)							

MITIGATION ENVIRONMENTAL INFORMATION									
Mitigation Type:	Creation	<input checked="" type="checkbox"/>	Restoration	<input checked="" type="checkbox"/>	Enhancement	<input checked="" type="checkbox"/>	Preservation	Mitigation Area (acres):	800+
SWIM Project?	No	Aquatic Plant Control Project?		No	Exotic Plant Control Project?		No		
Mitigation Bank?	No	If yes, give FDEP/WMD Mitigation Bank Permit #:					COE #:		
Drainage Basin(s):	Choctawhatchee River & Bay								
Water Body(s):	Choctawhatchee Bay, Hogtown Bayou					SWIM Water Body?	Yes		
Project Description									
A. Overall project goal:									
To acquire, preserve, enhance and/or restore wetland ecosystems in south Walton County within the Choctawhatchee River and Bay watershed.									
B. Brief description of current condition:									
Development threatens a large marsh system at Live Oak Point peninsula (Hogtown Bayou). Opportunities for significant restoration activities exist on NFWFMD-owned land within the Choctawhatchee watershed, and at Devil's Swamp.									

C. Brief description of proposed work:	Acquisition and restoration of wetland tracts. Restoration and enhancement of wetland tracts already owned by state entities, and on lands where conservation easements may be obtained.
D. Brief explanation of how this work serves to offset the impacts of the specified DOT project(s):	Wetland acquisition and restoration are traditional mitigation methods. The proposed areas are proximate to impacts caused by the US 98 project in south Walton County.
E. Brief explanation of why a mitigation bank was/was not chosen, including a discussion of cost:	No permitted mitigation banks currently exist in northwestern Florida.
F. Brief explanation of why a SWIM project was/was not chosen as mitigation, in whole or in part, including a discussion of cost, if the anticipated impacts are located within a SWIM water body:	No appropriate SWIM project exists.

MITIGATION PROJECT IMPLEMENTATION			
Entity responsible for construction:		Northwest Florida Water Management District	
Contact Name:	Duncan Cairns	Phone Number:	850-539-3999
Entity responsible for monitoring and maintenance:		Northwest Florida Water Management District	
Proposed timeframe for implementation	Commence Date:	TBD	Complete Date: TBD
Total Project Cost (\$): (attach itemized cost estimate)	Up to \$ 4,505,250		

Attachments	
X	1. Detailed description of existing site and proposed work. Table 3 or Section F of the ERP application may be used as guidelines.
X	2. Recent aerial photograph with date and scale.
	3. Location map and design drawings of existing and proposed conditions.
	4. Detailed schedule for work implementation, including any and all phases.
	5. Proposed success criteria and associated monitoring plan.
	6. Long-term maintenance plan
	7. Detailed explanation of how this work serves to offset the impacts of the specified DOT project(s).

ATTACHMENT FOR SOUTH WALTON COUNTY MITIGATION

The US 98 road project (WPI 3119122) from SR 83 / US 331 west to CR 30A will impact 60.07 acres of wetlands in south Walton County. The FDOT District-3 Environmental Impact Inventory (4/28/99) classifies the impact wetlands as low quality, FLUCCS 615 – Stream and Lake Swamps. Mitigation for these impacts will consist of: 1) acquisition and preservation of wetlands at Live Oak Point peninsula (Hogtown Bayou), and 2) hydrologic restoration of NFWFMD-owned lands on the lower Choctawhatchee River floodplain coupled with restoration activities (e.g., hydrologic, re-vegetation) on land acquired in the adjacent Devil's Swamp. The proposed mitigation areas are proximate to the wetland impacts caused by the FDOT project (Figure 1).

Live Oak Point Peninsula Acquisitions

Live Oak Point peninsula contains over 1,000 acres of estuarine wetlands, and is the largest tidal marsh system in Choctawhatchee Bay (Figure 2). However, development pressure is intense at Live Oak Point. If these wetlands are lost to development, the Choctawhatchee River delta to the east will be the only remaining substantial marsh within the bay. Therefore, acquisition and preservation of these wetlands is critical to maintaining the ecological health of the Choctawhatchee Bay.

Approximately 300 acres of wetlands at Live Oak Point are already state owned. For mitigation purposes, the NFWFMD has negotiated the purchase of the 344-acre McGill tract for \$688,000 (\$2,000/Acre). The McGill tract consists of 324 acres of estuarine wetlands and 20 acres of wet pine flatwoods. Another 350+ wetland acres have also been targeted for preservation, ideally through outright acquisition, although the establishment of conservation easements in perpetuity would also be considered.

These acquisitions will preserve over 700 acres of high quality wetlands. Given the high ecological value and relative scarcity of these wetlands in Choctawhatchee Bay, it is estimated that these acquisitions will yield 35+ wetland credits at a 20:1 ratio (preserved wetlands to impacted wetlands). These credits will partially offset the impact from the US 98 project.

Lower Choctawhatchee River Floodplain and Devil's Swamp Restoration

This mitigation area (Figure 3) is in the lowermost portion of the Choctawhatchee River floodplain. Approximately 1,675 acres of the proposed mitigation area are owned by the NFWFMD (1,275 acres upland; 400 acres wetlands). The Devil's Swamp portion of the mitigation area, currently owned by private interests, covers about 3,100 acres (1,040 acres wetlands) and is to the south and adjacent to the floodplain. Improvement of the hydrologic connections between Devil's Swamp and the floodplain, coupled with restoration of this area to a natural condition, will provide a very diverse and ecologically important wetland habitat.

The wetlands on the NFWFMD-owned portion of the project area consist of mostly of intermittent streams that connect Devil's Swamp to the floodplain. Virtually all of the wetlands in this area are classified as FLUCCS 630 – Wetland Forested Mixed. Hydrologic restoration of these drainages will restore most of the wetlands in this area to a natural condition. Restoration

of these drainages will also provide important ecological corridors that connect the active river floodplain with Devil's Swamp.

Part of the restoration effort will be to fix inadequate culverts and drainages that have been blocked by logging roads and previous land clearing activities. These blockages interfere with the natural hydrology of the area and over time result in deleterious changes to the ecosystem and structure of the floodplain forest (e.g., tree die-off, changes in seedling recruitment, possible interference of the movement of certain organisms, lack of rehydration). Hydrologic restoration of the area will consist of the installation of low-water crossings (see attached typical) with proper grading of surface slopes and the construction of a bridge where the access road to the Bunker community blocks a stream. Although the improvements to the streamflow corridors only result in an estimated 10 acres of wetlands mitigation credit, the removal of the blockages to these intermittent streams result in significant enhancement and overall added ecological value to all of the wetlands in this area.

The Devil's Swamp area, owned by St. Joe / Arvida Development Corporation, is approximately 3,100 acres. Based on the FDEP (Florida Department of Environmental Protection) landuse coverage, approximately 1,040 acres are wetlands (see Figure 3), although based on preliminary field reconnaissance the actual jurisdictional wetland acreage is likely somewhat larger. Devil's Swamp is approximately 10-15 feet higher in elevation than the Choctawhatchee River floodplain (Figure 4). Removal of the blockages in the stream corridors to the Choctawhatchee River should allow for additional water to flow to the swamp during periods of extreme high river flow and high tides. However, during wet periods with locally high rainfall amounts, water from Devil's Swamp will typically drain to the wetlands in the riverine floodplain. The wetlands within Devils Swamp consist of FLUCCS 620 – Wetland Coniferous Forest, FLUCCS 630 – Wetland Forested Mixed, and FLUCCS 690 – Wetland Scrub Shrub. Devil's Swamp is contiguous with NFWFMD-owned lands and has large potential for hydrologic restoration and revegetation. Restoration of all of Devil's Swamp would more than offset the total wetland credits needed for the US 98 road project. Therefore, only credits needed to offset the US 98 project will be used.

Much of Devil's Swamp has been ditched and cut-over (Figure 5). The western portion of Devil's Swamp has been particularly impacted by hydrologic alteration (Figure 6). Restoration of Devil's Swamp would include re-forestation with appropriate wetland species, pre-scribed burns, plugging or filling in of ditches and reconnecting or redirecting flow toward the natural drainages to the Choctawhatchee floodplain. Relict bedding from forestry operations might also be breached or regraded in certain areas. Much of the surrounding uplands have been clear-cut. Eventual restoration of these upland areas to natural conditions (pine flatwoods or longleaf pine / wiregrass community) would provide a buffer of high ecological value for the wetland areas being restored for mitigation purposes. The Devil's Swamp area also includes small, relatively isolated depression wetlands that need hydrologic restoration and are critical for the ecology of many organisms that use wetlands. St. Joe / Arvida has expressed an interest in the sale of this land or the establishment of a conservation easement with the NFWFMD.

Mitigation Credits

Credits obtained from wetlands preservation at Live Oak Point peninsula will be applied first toward mitigating the US 98 (WPI 3119122) project. We anticipate at least 35 credits will be obtained from the Live Oak Point effort. The remaining 25 credits needed to offset the US 98 project will be generated from restoration efforts in the Lower Choctawatchee River floodplain

and Devil's Swamp. Given the high restoration potential of Devil's Swamp, we anticipate needing to restore only 75-125 acres there to obtain the additional 25 wetland credits needed. The remainder of the sites in Devils Swamp will be restored in the future for other wetland mitigation projects.

Monitoring

Appropriate monitoring will be conducted to ensure the success of the mitigation, or in the case of non-success, provide data to determine why the mitigation was not successful. Monitoring may include the establishment of permanent vegetation transects, vegetation plots, time sequence photography, and the installment of water level monitoring equipment.

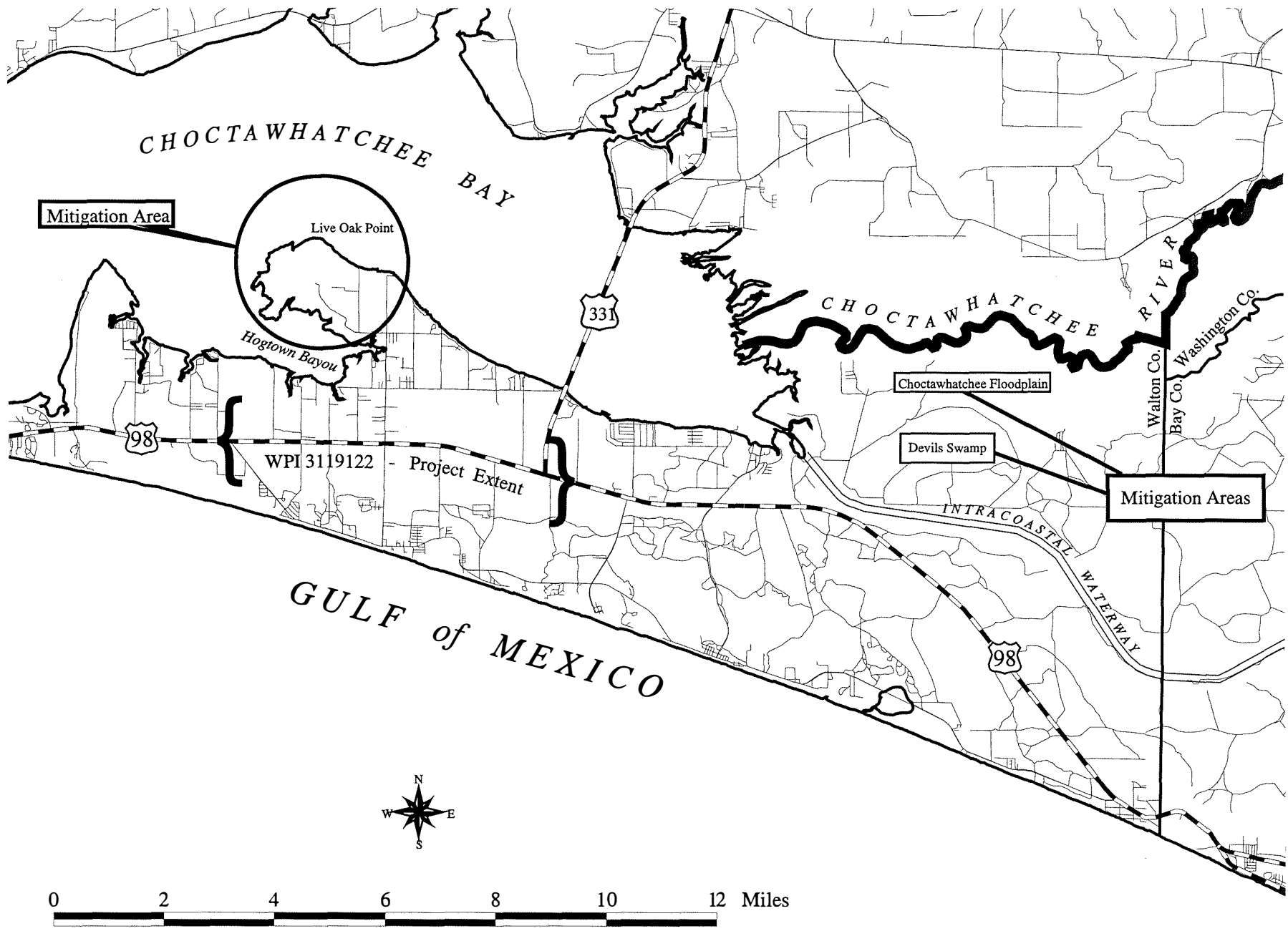


Figure 1 - Location Map

Live Oak Point

No.	Owner
1	Forman
2	Unknown
3	Bishop
4	Dwyer
5	BRW Builders of Destin, Inc.
6	Crystal Beach Development, Inc.
7	Paradise Developers, Inc.
8	Blue
9	PBP Properties, Inc.
10	Patronis
11	Faler
12	Campbell
13	Garretson
14	Lee
15	Unknown
16	Hull
17	Moore
18	Bacon
19	Potter
20	Ross
21	Blue Mt. Beach Properties, Inc.
22	Town of Santa Rosa

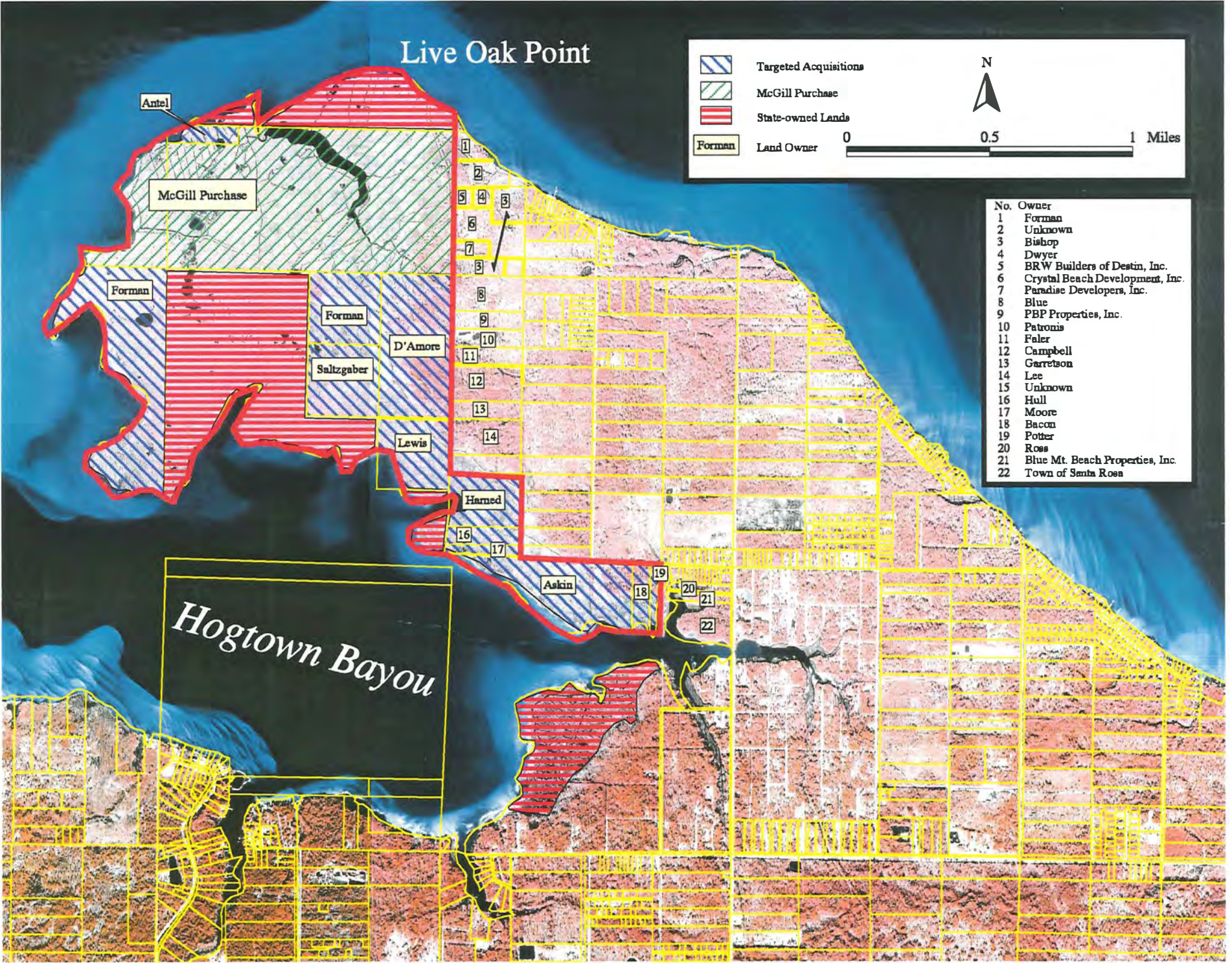
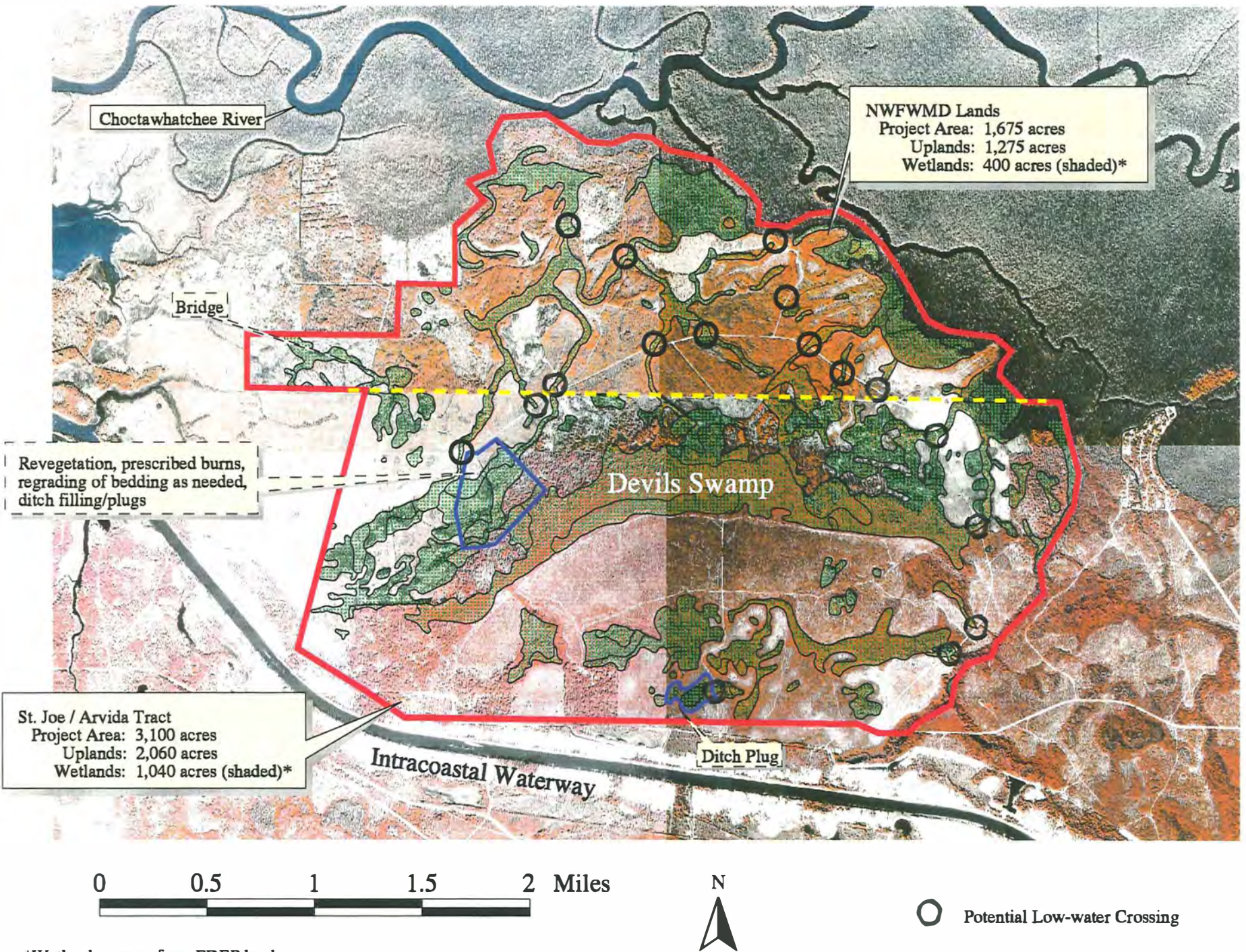


Figure 2 - Live Oak Point Mitigation Area

Figure 3 - Lower Choctawhatchee / Devil's Swamp Mitigation Area



*Wetland acreage from FDEP landuse coverage. Actual jurisdictional wetland acreage may be substantially greater.

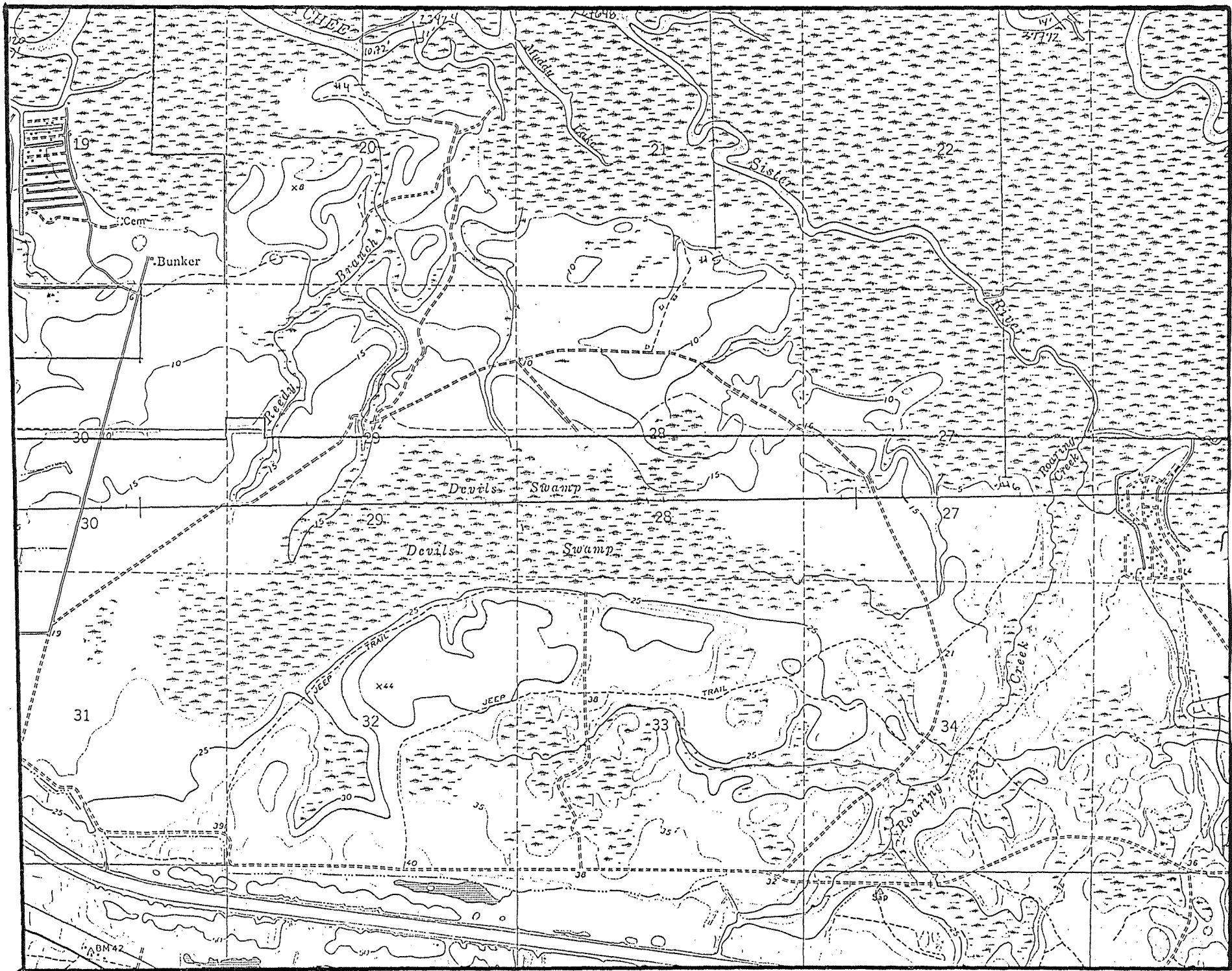
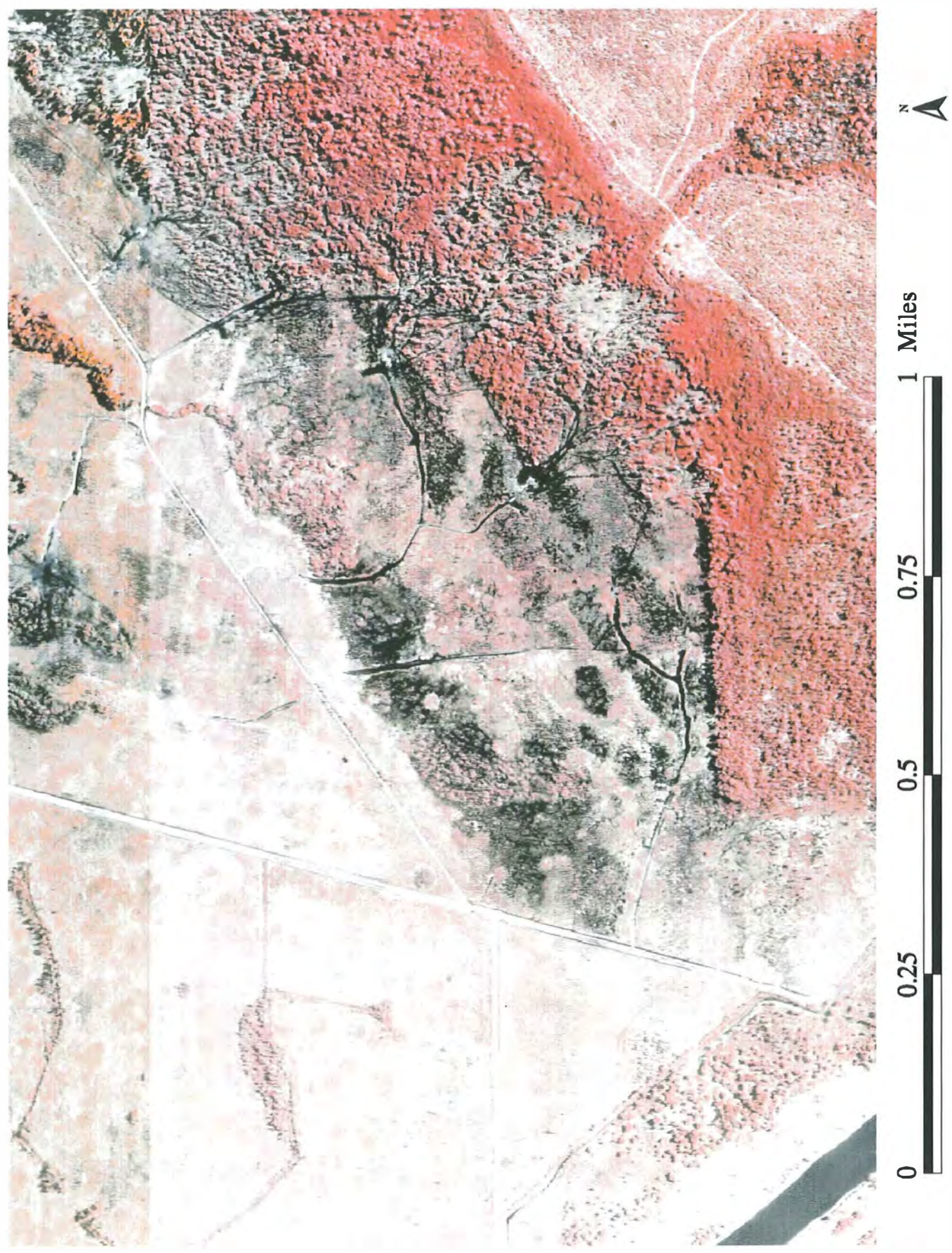


Figure 4 - Topography of Area LC-1 and Devil's Swamp

Figure 5 – Logged Area of Devil’s Swamp



Figure 6 - Western Portion of Devils Swamp Mitigation Area



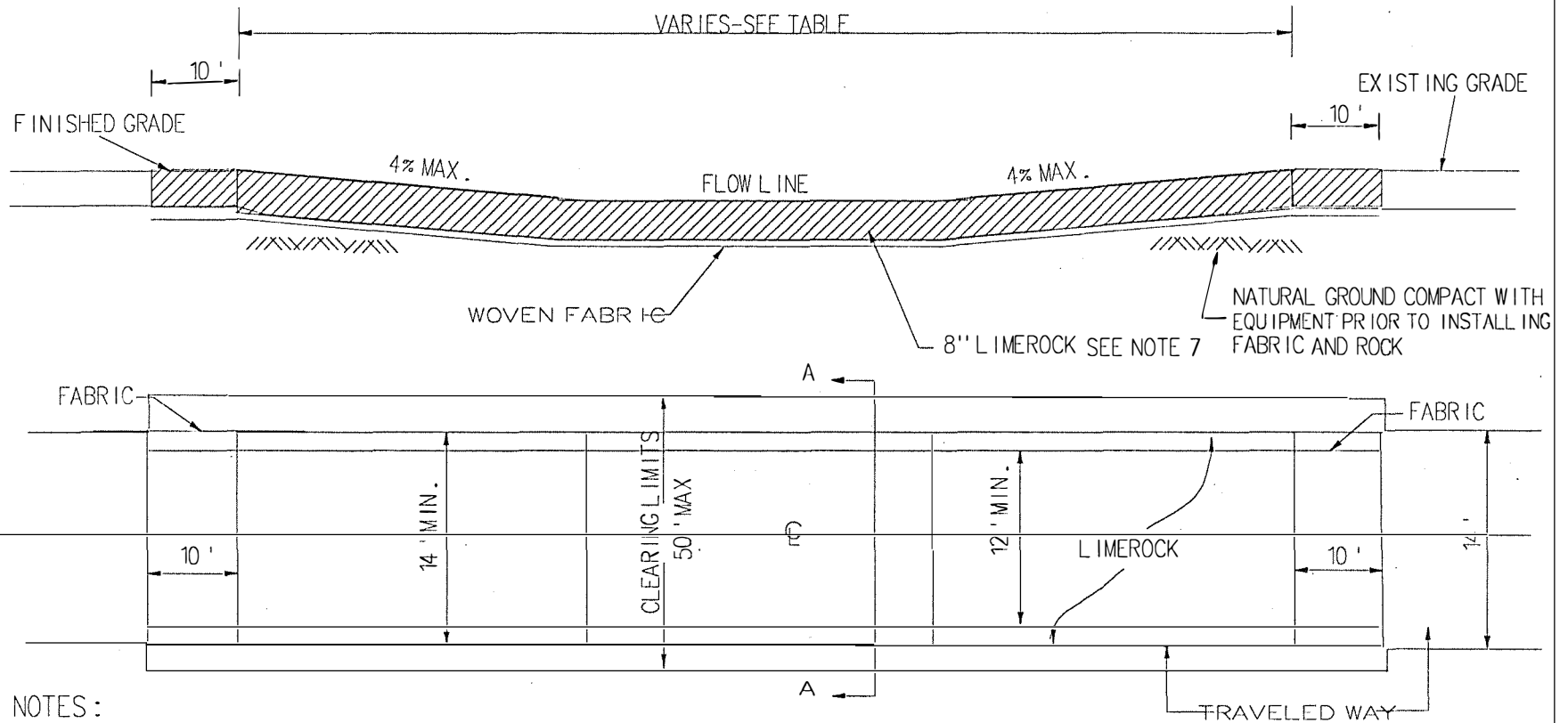
Wetland Mitigation Credits

(to offset WPI 3119122)

Mitigation Area	Preservation Acreage	Restoration Acreage	Enhancement Acreage	Mitigation Credits Applied
Live Oak Point/Lower Choctawhatchee Floodplain/Devil's Swamp	700+	85-145	200-400	62+

TYPICAL HARDENED LOW WATER CROSSING DETAIL

(NOT TO SCALE)



NOTES:

1. ONLY THOSE LWC DESIGNATED FOR HARDENED CROSSINGS WILL RECEIVE LIMEROCK. ALL CROSSINGS NOT DESIGNATED TO BE HARDENED SHALL BE CONSTRUCTED AS SHOWN IN FIGURE 6
2. LIMEROCK SHALL BE TRUCK DUMPED AND MACHINE SPREAD OVER THE FABRIC FOLLOWING PLACEMENT OF FABRIC.
3. COMPACT ION OF LIMEROCK SHALL BE ACCOMPLISHED BY SPREADING EQUIPMENT
4. FABRIC SHALL CONFORM TO MIRAFI INC. 600X GEOTECHNICAL FABRIC OR EQUAL
5. MINIMUM FABRIC OVERLAP SHALL BE 6' ON EACH EDGE. ROCK SHALL BE PLACED ON LAP PRIOR TO PLACING ROCK ON SINGLE LAYERS OF FABRIC TO PREVENT LATERAL MOVEMENT.
6. ALL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.
7. UNLESS OTHERWISE APPROVED BY ENGINEER LIMEROCK SHALL MEET THE FOLLOWING GRADATION.

GRADATION:

SIEVE	% PASSING
8"	100
2"	0-5

