

Session 14

Bob Crim

FL. Dept. of Transportation

Integrating ETDM into Project Development

Topic Description

Integrating ETDM into Project Development:

This session will provide an overview of the Efficient Transportation Decision Making (ETDM) process and provide a summary of how it has been implemented to date. There are also presentations providing District perspectives, methods, and project examples on how ETDM is being integrated into project development and design. The session will be presented in a panel format, with the overview provided by Bob Crim, a District 4 presentation by Richard Young, a District 5 presentation by Lynn Marie Whately and Kevin Moss, and a District 1 presentation by Gwen Pipkin. There will be time for questions and answers at the end by all panel members.

Speaker Biography

Bob Crim has worked for the Florida DOT for eighteen years, with more than fourteen years in the Environmental Management Office in the department's central office. Prior to working for the FDOT, he worked for the Federal Highway Administration for twelve years in several states, including Florida.

He currently holds the position of State Environmental Programs Engineer and oversees the Project Development and Environmental Programs Section where he is responsible for developing and coordinating department policy and procedures relating to project development activities during the preliminary design and environmental review phase of transportation projects. Mr. Crim also coordinates the department's Transportation Enhancement Program and manages the statewide component of the program.

Mr. Crim holds a B.S. degree in Civil Engineering from the University of Florida as well as an M.S. degree in Civil Engineering from Northeastern University, and is a registered professional engineer in the States of Massachusetts and Florida.

Session 14

Kevin Moss

Carter & Burgess, Inc.

Integrating ETDM into Project Development

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Speaker Biography

Mr. Moss is a Project Manager with Carter & Burgess, Inc. specializing in roadway design. He is experienced in all types of design from major interchange reconstructions to 3-R projects. He has also worked on numerous PD&E and planning studies throughout his career including Interstate 10 in Leon County and SR 15 in Seminole County. Mr. Moss is registered professional engineer in the State of Florida and holds a degree in Engineering from the University of Central Florida.

Session 14

Gwen Pipkin

FL. Dept. of Transportation

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Speaker Biography

Gwen Pipkin manages the ETDM program for District One, serving as both the ETDM Coordinator and the CLC Coordinator. She is responsible for following these projects through the planning stages, and into the PD&E phase, which includes agency and MPO coordination, class of action determination, and project scoping. She has integrated the concepts of ETDM throughout the planning and PD&E phases to increase the efficiency of project delivery, and she recently implemented and served on the multidisciplinary team that resulted in the revision of the old Preliminary Engineering Report (PER) into the new Project Development Summary Report (PDSR).

Ms. Pipkin has been with the FDOT for 10 years, as an Environmental Project Manager in the PD&E Department. When not doing ETDM, she serves as the Project Manager for several PD&E projects, including the Snake Road PD&E project, which involves Seminole and Miccosukee tribal lands, and the Upper Manatee River PD&E project, which is currently completing an EIS. Ms. Pipkin also manages the environmental aspects of several other ongoing PD&E projects.

Ms. Pipkin has a B.S. in Biology from Florida Southern College.

Session 14

Lynn Marie Whately

Carter & Burgess, Inc.

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Speaker Biography

Lynne Marie Whately, AICP is a Senior Project Manager with Carter & Burgess, Inc. and has provided project management and professional planning services to the Florida Department of Transportation on PD&E studies and in the development and implementation of the State Scenic Byways programs. Ms. Whately served as a member of a multi-discipline team of experts that developed the initial Program Manual for the FSHP and currently manages Program implementation for FDOT. She provides training and presentations about the program to local and state officials, program participants and industry professionals; has developed a logo sign for the program; reviews state grant applications; reviews designation applications; provides technical assistance to communities and local governments' and has lead efforts in regards to scenic highways and their relationship to other policies and programs, such as NEPA, Funding Sources, Signage, Economic Benefits and local government comprehensive planning. Ms. Whately assisted in the development of Florida Administrative Rules and FDOT Procedures and has also served as a speaker at several past National Scenic Byways Conferences. Ms. Whately has a Bachelors Degree in Planning and Public Administration from the University of Southern California, in Los Angeles, and a Masters Degree in Urban Planning for Florida State University in Tallahassee.

Session 14

Richard Young

FL. Dept. of Transportation

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Speaker Biography

Richard Young is the District 4 ETDM Coordinator and a Senior Project Manager in the Planning and Environmental Management Office. He has 13 years of experience working for the FDOT and oversees FDOT staff as well as consultant contracts and staff.

He is responsible for managing several PD&E projects, and supervises the District's Traffic Noise Program and the District Environmental Management Office's Public Involvement Program in addition to coordinating the District's ETDM activities. Mr. Young holds a B.S. degree in Civil Engineering from Michigan State University and a Masters in Business Administration from Florida Atlantic University. He is a registered professional engineer in the State of Florida.

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Efficient Transportation Decision Making

**FICE/FDOT
Design Conference
2006**



August 1, 2006

**Session 14:
Integrating ETDM into Project Development**

Environmental Management Office
Florida Department of Transportation



Today's Presentation

- Florida's Efficient Transportation Decision Making Process- Bob Crim
- District Four Lessons Learned- Richard Young
- District Five Lessons Learned- Lynn Marie Whately and Kevin Moss
- District One Lessons Learned- Gwen Pipkin

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Efficient Transportation Decision Making (ETDM)

- A new integrated approach to transportation planning, project development and delivery in Florida.
- A collaborative process involving
 - FDOT
 - Resource Agencies
 - MPOs
 - The Public
- Committed to at the HIGHEST LEVELS
- Process principles incorporated into formalized agreements

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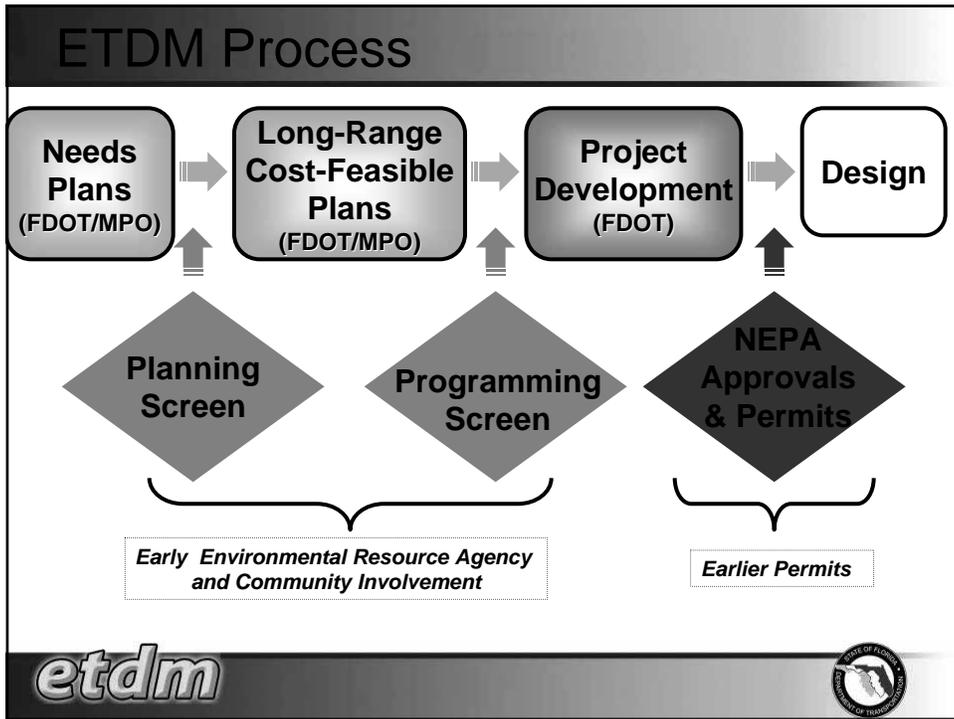


Goals of The ETDM Process

- Earlier identification and consideration of potential environmental and sociocultural effects of major transportation capacity improvements
- More efficient planning and project development
 - Build on input at each stage
 - Don't continue to invest time and money if fatally flawed
 - Don't continue to address if a non-issue
- Obtain permits earlier when appropriate

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- ## Agencies Participating in the ETDM Process
- More than 30 state, tribal, federal, and local agencies participate in the ETDM Process
- | | |
|---|---|
| <ul style="list-style-type: none"> Federal Highway Administration (FHWA) Federal Transit Agency (FTA) US Army Corp of Engineers (USACE) US Coast Guard (USCG) US Environmental Protection Agency (USEPA) USDA Natural Resources Conservation Service US Fish & Wildlife Service (USFWS) US Forest Service (USFS) National Marine Fisheries Service (NMFS) National Park Service (NPS) Seminole Tribe Miccosukee Tribe Florida County Governments 25 Metropolitan Planning Organizations | <ul style="list-style-type: none"> Florida Department of Environmental Protection (FDEP) Florida Department of Community Affairs (DCA) Florida Department of Transportation (FDOT) FL Department of Agriculture and Consumer Services (FDACS) Florida Fish and Wildlife Conservation Commission (FFWCC) Northwest Florida Water Management District (NFWFMD) South Florida Water Management District (SFWMD) Southwest Florida Water Management District (SWFWMD) St. Johns River Water Management District (SJRWMD) Suwannee River Water Management District (SRWMD) |
|---|---|
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Types of Projects Subject to ETDM Screening

- “Major Transportation Projects”
 - Roadway Projects
 - Where capacity is added to an existing road in the form of additional through lanes
 - New Roadways
 - Major Interchanges, Interchange modifications
 - Major Bridges, Bridge replacements, Bridge Projects involving additional lanes
 - Public Transportation Projects
 - Major capital improvements including Intermodal Centers, Rail, Transit Centers

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Technology Foundation

- Florida Geographic Data Library (FGDL)
 - Digital repository of GIS Assets (containing over 350 data layers)
 - FGDL responsible for presentation, storage, analysis, and retrieval of supporting data.
- Environmental Screening Tool
 - Web-based GIS application designed to Improve access to information and provide better decision support
 - Maintains communication record
 - Provides standardized analysis and reporting tools

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Technology Building Blocks

D A T A	Project Diary	Community Characteristics	Standard Analyses	Responses Commitments & Recommendations				
	Florida Geographic Data Library <i>Digital Repository With Over 350 GIS Data Layers</i>							
T O O L S	Maintain Project Records	Record Project Effects	Summarize Public Involvement	Coordinate Among ETAT	Provide Feedback	Search Data Records	Retrieve Standard Reports	View and Query Maps

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EST and FGDL Data Sources

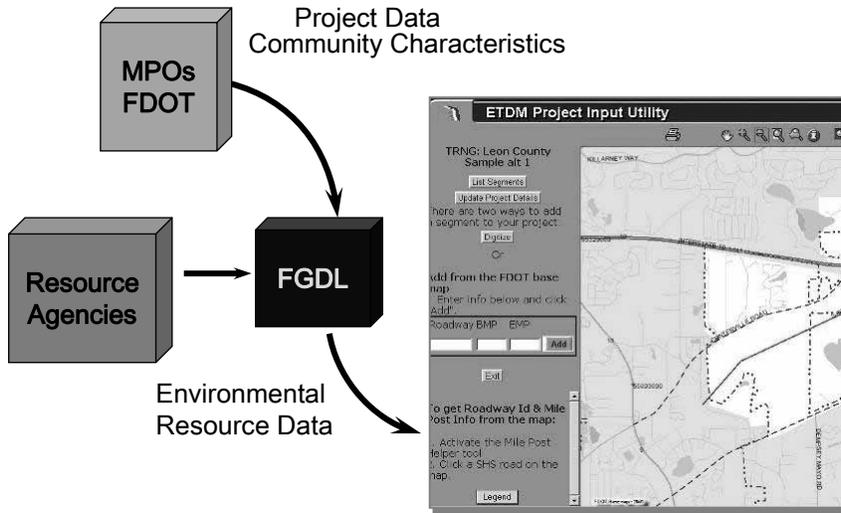
More than 30 state, federal and local agencies, nonprofit organizations and private companies have contributed their data to the FGDL.

<ul style="list-style-type: none"> Bureau of Transportation Statistics Environmental Protection Agency Federal Aviation Administration Federal Emergency Management Agency Florida Department of Environmental Protection Florida Department of Revenue Florida Department of Transportation Florida Division of Emergency Management Florida Fish and Wildlife Conservation Commission Florida Marine Research Institute Florida Natural Areas Inventory Florida Resources & Environmental Analysis Center 	<ul style="list-style-type: none"> Florida's 5 Water Management Districts Florida County Governments National Climatic Data Center Space Imaging Earth Observation Satellite Company (EOSAT) SPOT Image Corporation University of Florida GeoPlan Center US Census Bureau USDA Natural Resources Conservation Service US Fish & Wildlife Service US Forest Service US Geological Survey 26 Metropolitan Planning Organizations
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Step 1. Data Entry



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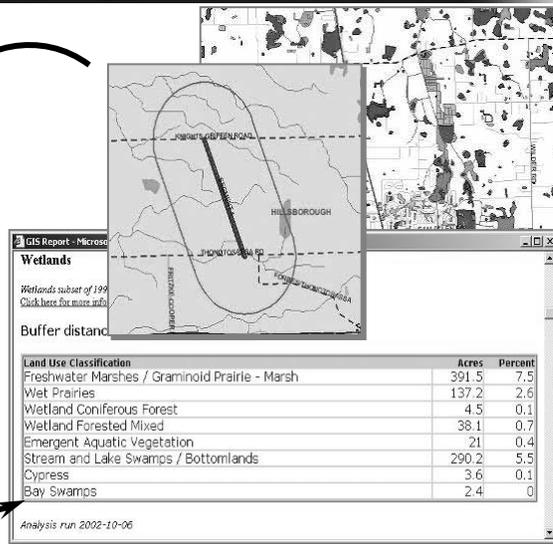
Step 2. GIS Analysis

GIS Layers of Projects
And Resources

ArcGIS Application

- > Buffer
- > Query
- > Clip
- > Summarize

Analysis Results



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Issues Agencies Comment On

- Aesthetics
- Air Quality
- Coastal and Marine
- Contaminated Sites
- Economic
- Farmlands
- Floodplains
- Historic and Archaeological Sites
- Infrastructure
- Land Use
- Mobility
- Navigation
- Recreation Areas
- Relocation
- Secondary and Cumulative Effects
- Section 4(f) Potential
- Social/Community Concerns
- Special Designations
- Water Quality and Quantity
- Wetlands
- Wildlife and Habitat

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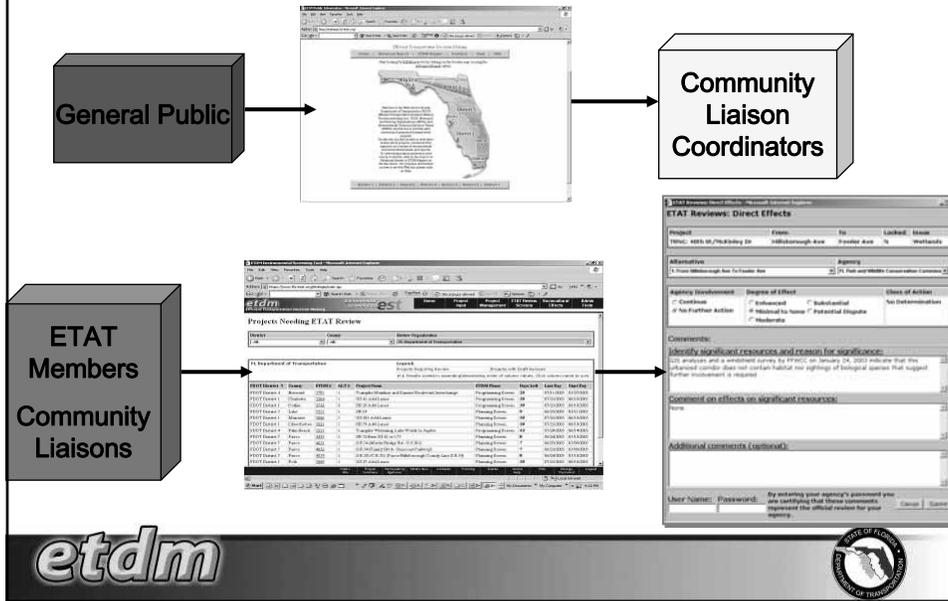
Degree of Effect

Enhanced	Positive effect on resources
Minimum/None	Little adverse effect on resources
Moderate	Resources are affected; avoidance, minimization options available
Substantial	ETAT understands project need; substantial interaction required; avoidance, minimization, mitigation
Potential Dispute	Does not conform to agency requirements

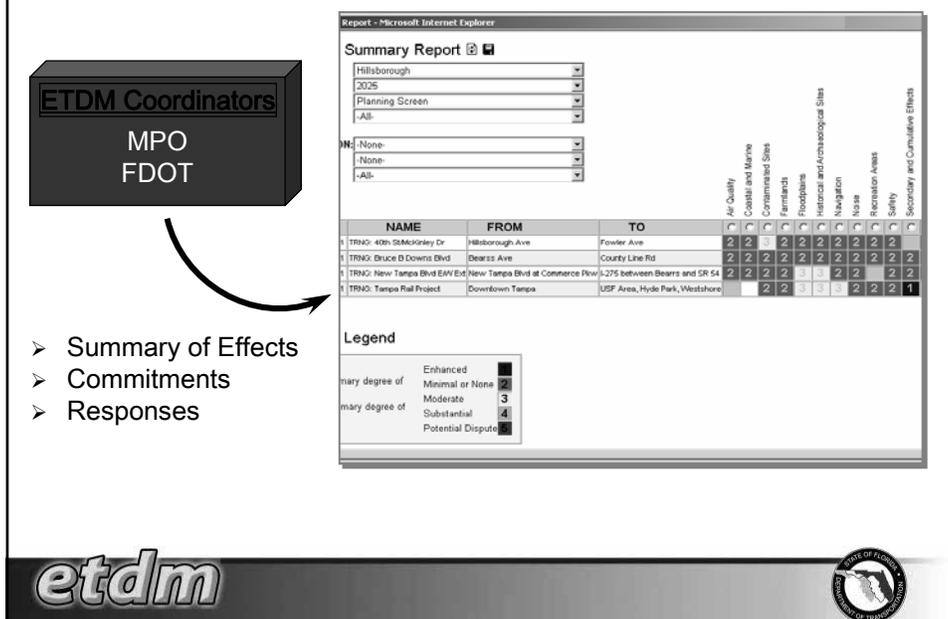
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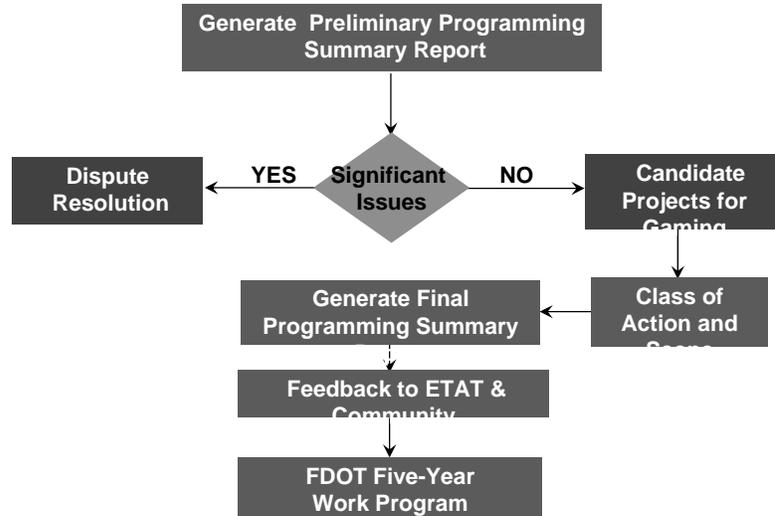
Step 3. Project Released for Review



Step 4. Summary Report



Programming Summary Report Flow



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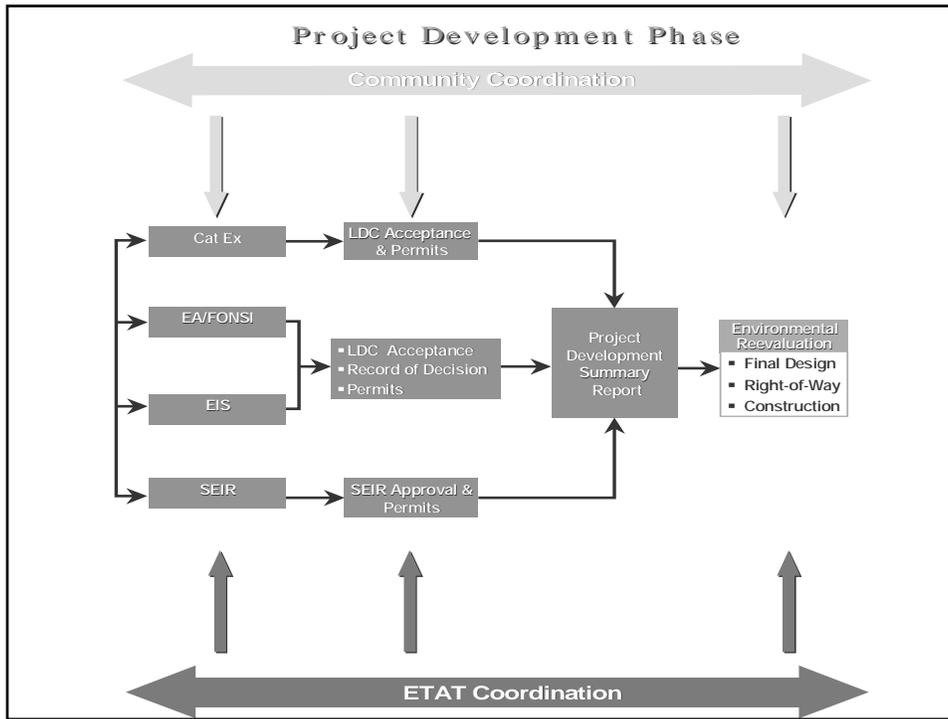


Final Summary Report Contents

- Purpose and need
- Class of action determination
- GIS mapping depicting sociocultural and natural resources
- Project development scope of work
- Dispute resolution (if applicable)
- Acceptability of alternatives
- Summary of public involvement and comments

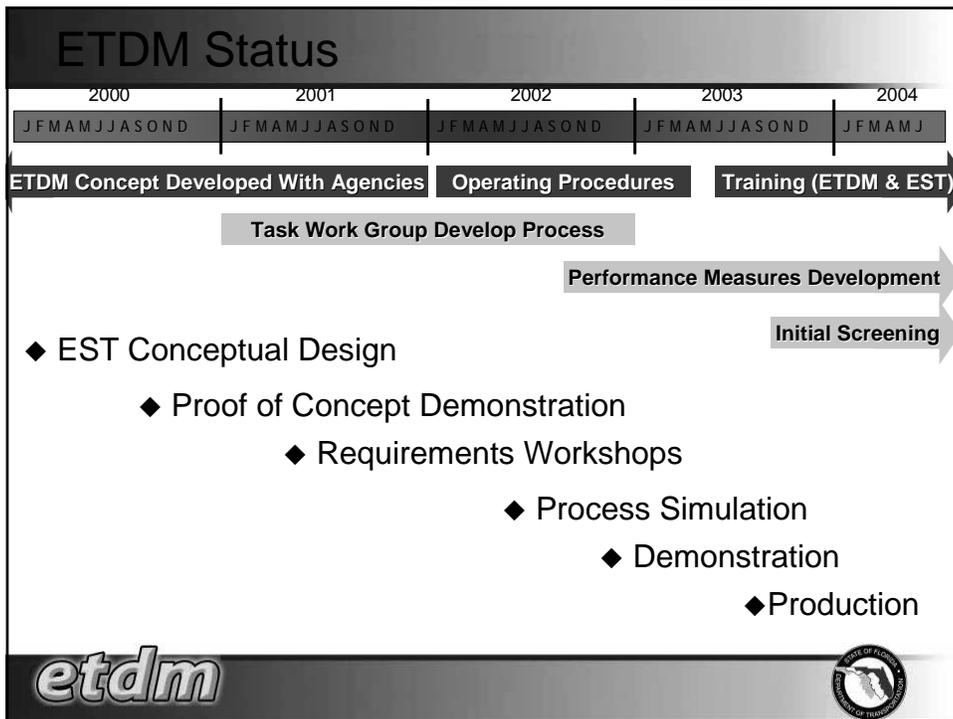
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Efficient Transportation Decision Making

ETDM Status



Status as of 4/15/2006

- 220 projects through ETAT review
- 500 participants
 - 150+ Trained in Project Input Module
 - 150+ ETAT reviewers trained
- Preparation for 2007 Work Program
 - Programming Screen Event – Spring 2006
- Public access site available
 - <http://etdmpub.fl-a-etat.org/>




Florida's ETDM Process

Benefit's



Benefits

- Early identification of potential issues and possible avoidance/minimization options
- Early identification of community expressed needs
- Integration of agency and community perspectives
- MPO & FDOT LRTP processes enhanced by earlier understanding of projects' potential environmental & sociocultural effects and their associated costs and acceptability
- Projects enter the FDOT Work Program and MPO TIP with better definition of issues, feasibility, and potential costs.

Benefits (continued)

- Agencies and affected community have ready access to quality data and feedback
- Project “diary” follows project through all phases
- Focuses project scopes on key technical issues
- Review and permitting processes integrated
- Early NEPA reviews/approvals
- Expected reduction in late project challenges and litigation

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Efficient Transportation Decision Making

Thank You



Integrating ETDM into Project Development

Richard Young P.E.
District 4 ETDM Coordinator



FLORIDA DEPARTMENT OF TRANSPORTATION

DISTRICT FOUR



Integrating ETDM into Project Development

Implementation of ETDM prior to PD&E

- ✓ Review Programming Summary Report
- ✓ Develop customized scope of services



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Primavera Goals

This tool is expected to:

- ✓ Document the Process
- ✓ Develop Schedule Logic
- ✓ Develop Reporting System
- ✓ Monitor Integrity
- ✓ Measure Performance
- ✓ Share and Distribute Data
- ✓ Manage Resources



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DISTRICT FOUR



Internal Coordination of Process

Identify "Liaisons"

- ✓ Traffic
- ✓ Environmental
- ✓ Design
- ✓ Drainage



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DISTRICT FOUR



Internal Coordination of Process

Liaisons involved during
PD&E:

- ✓ Provide specialized expertise
- ✓ Document unit workload
- ✓ Report activity progress



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Integrating ETDM into PD&E Schedule Revisions of Primavera Schedule for Type 2 CE

- ✓ Revise existing activities
- ✓ Add new ETDM related activities



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DISTRICT FOUR



Integrating ETDM into Project Development

Implementation of ETDM during to PD&E

- ✓ Internal Coordination of Process
- ✓ Revision of Primavera schedule
- ✓ Performance Tracking
- ✓ Coordination with ETAT
- ✓ Integration of Permit Process



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DISTRICT FOUR



Primavera Goals

This tool is expected to:

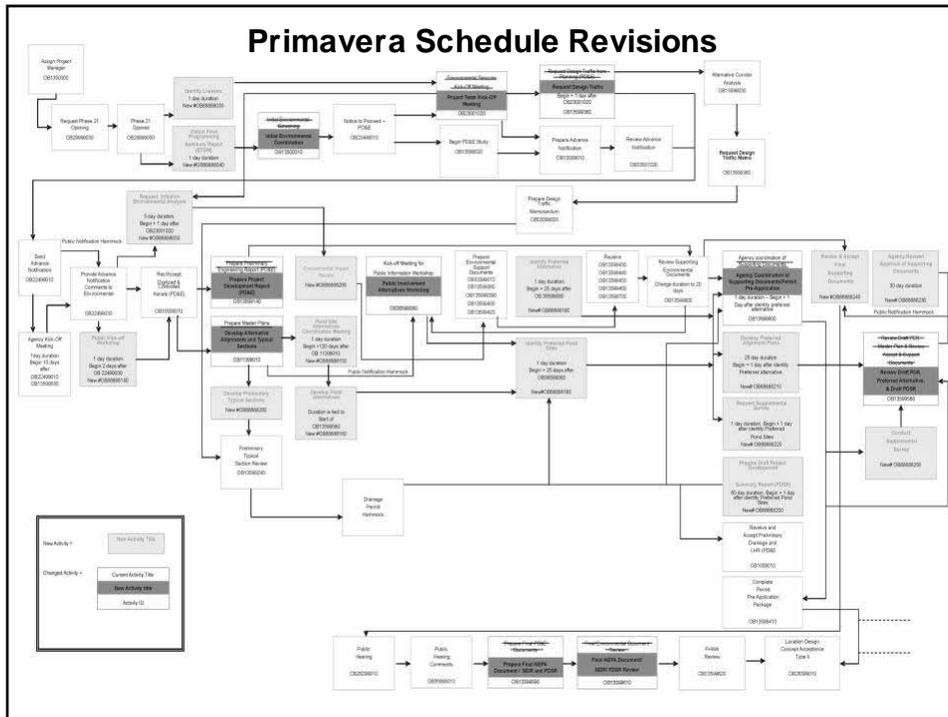
- ✓ Document the Process
- ✓ Develop Schedule Logic
- ✓ Develop Reporting System
- ✓ Monitor Integrity
- ✓ Measure Performance
- ✓ Share and Distribute Data
- ✓ Manage Resources



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New Primavera Activities

- ✓ Identify liaisons
- ✓ Review Programming Summary Report
- ✓ Prepare Project Development Report
- ✓ Prepare Pond Siting Report
- ✓ Prepare Permit Package
- ✓ Prepare PDSR



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Monthly Production Book Milestone Activities

- ✓ Send AN
- ✓ Receive Design Traffic
- ✓ Receive Digitized Aerial Survey
- ✓ Develop Alternative Alignments
- ✓ Develop Preferred Alignment
- ✓ Review & Accept Documents
- ✓ Public Hearing
- ✓ LDCA



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Coordination with ETAT

- ✓ Programming Screen comments drive scope development
- ✓ Field reviews with ETAT members
- ✓ "Summit meetings with ETAT
- ✓ Monthly permit meetings with SFWMD and ACOE



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Integration of ETDM Permit Process

- ✓ Pond Alternatives
Coordination Meeting
- ✓ Develop Pond Alternatives
- ✓ Identify Preferred Pond Sites
- ✓ Prepare Pond Siting Report
- ✓ Prepare Permit Application



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Integration of ETDM Permit Process

- ✓ Coordinate with
Permitting Agencies
- ✓ LDCA
- ✓ Permit Issuance



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Integration of ETDM Permit Process

What happens between LDCA and Design?

- ✓ Continued permit coordination
and/or issuance



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Thank You



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DISTRICT FOUR



LESSONS LEARNED

Implementing the ETDM Process on the State Road 15 PD&E Study



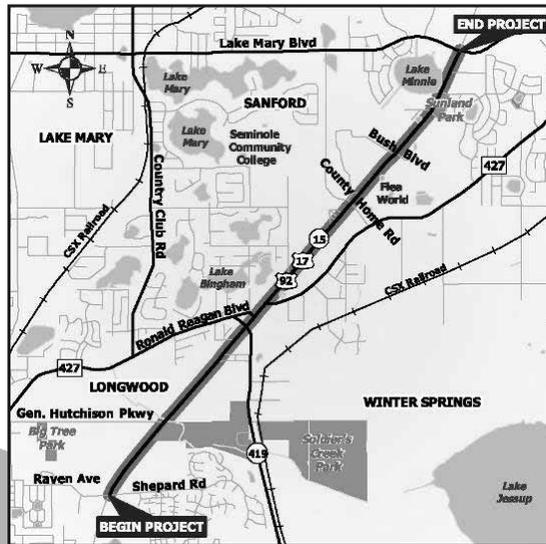
SR 15/600 (US 17/92) PD&E Study from Shepard Road to Lake Mary Boulevard, Seminole County
FM: 240196-1-22-01

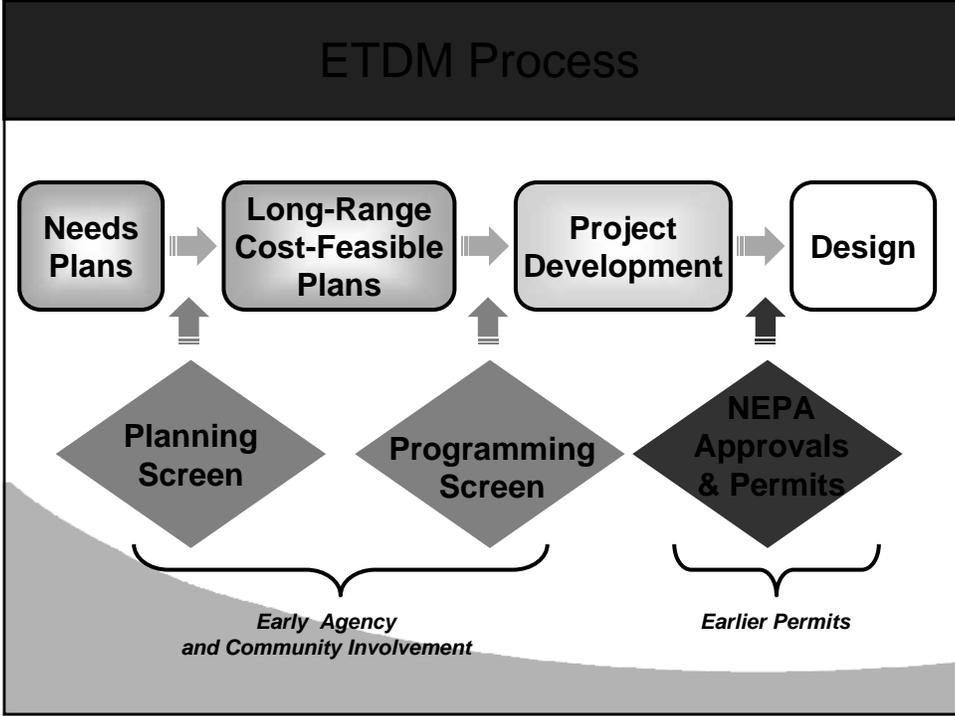


FDOT Design Conference
August 2006

Carter=Burgess

Project Location Map





Planning and Programming Screens

- Project entered into EST for agency review prior to PD&E

Programming Screen Comments for US 17/92 (SR 15/600) from Shepard to Lk. Mary Blvd.

ALT #	Agency	Agency Involvement	Issue	Effect	Review Date
1	FL Department of Community Affairs	Continue	Land Use	Minimal to None	07-12-04
1	FL Department of Environmental Protection	No Further Action	Section 4(f) Potential	Minimal to None	07-22-04
1	FL Department of Environmental Protection	No Further Action	Water Quality and Quantity	Minimal to None	07-22-04
1	FL Department of State	Continue	Historic and Archaeological Sites	Substantial	07-22-04
1	Federal Highway Administration	Continue	Contaminated Sites	Minimal to None	07-15-04
1	Federal Highway Administration	Continue	Historic and Archaeological Sites	Minimal to None	06-08-04
1	Federal Highway Administration	Continue	Land Use	Minimal to None	07-15-04
1	Federal Highway Administration	Continue	Section 4(f) Potential	Minimal to None	06-08-04
1	Federal Highway Administration	Continue	Social	Minimal to None	07-15-04
1	Federal Transit Administration	Continue	Mobility	Minimal to None	07-06-04
1	National Marine Fisheries Service	Continue	Wetlands	Moderate	07-22-04
1	Natural Resources Conservation Service	Continue	Farmlands	Minimal to None	06-23-04
1	US Army Corps of Engineers	Continue	Wetlands	Moderate	06-23-04
1	US Fish and Wildlife Service	Continue	Wetlands	Moderate	06-28-04
1	US Fish and Wildlife Service	Continue	Wildlife and Habitat	Minimal to None	06-28-04

Project Need

- North/south route provides relief for I-4
- Connects many Central Florida municipalities
- Consistent with local transportation plans
- Improve safety & traffic flow
- Project will be a Type 2: CE



Goal of the ETDM Process

Through a new ETDM process, this project will:

- Provide early coordination with local environmental permitting agencies
- Conduct survey during PD&E Phase
- Begin permitting during PD&E Phase
- Move directly into Design
- Shorten the overall project schedule

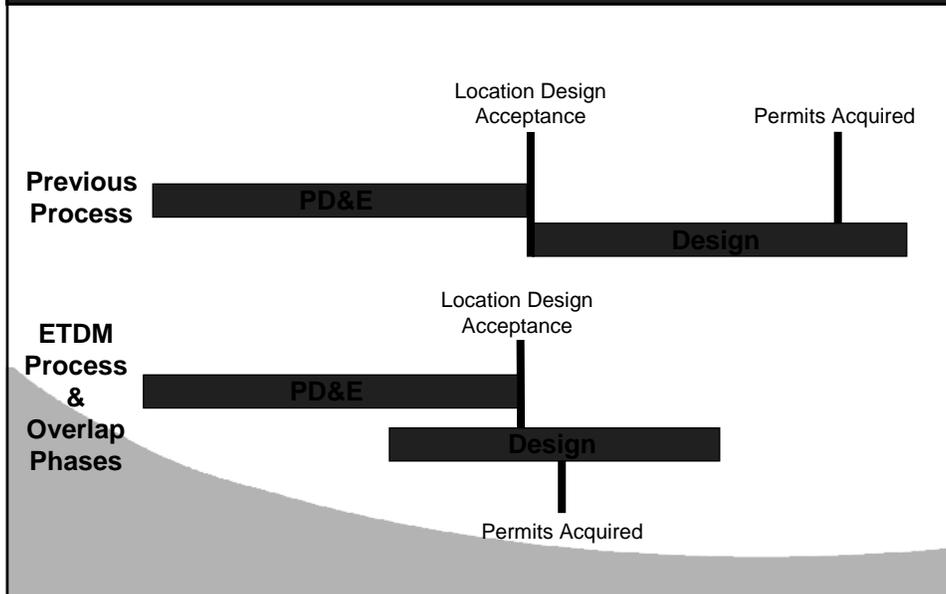
Lessons Learned

- **Survey during PD&E**
 - More accurate PD&E concepts
 - Because PD&E is more conceptual in nature, the alternative analysis could move forward if delays in survey work fell behind.

Lessons Learned

- **Agency Comments (Programming Screen)**
 - Focused environmental work
 - Combined Biological Summary Report (vs. ESBA & WER)
- **EST vs. Project Diary**
- **Project Diary**
 - When and how info is uploaded
 - Can ETAT Agencies download large files?
 - ETAT reviews – are they doing them?
- **Project Field Trip**

Overlap in Phases



Lessons Learned

- **Completed Design Survey during PD&E**
 - More accurate PD&E concepts
 - Any delay in the survey schedule did not significantly impact the project.
 - Because PD&E is more conceptual in nature, the alternative analysis could move forward when delays in survey work (alignment) fell behind. This would not be the case in Design.

Lessons Learned

- **When do we conduct VE?**
 - Design Phase
- **When do we submit a Typical Section Package?**
 - Since straight-forward project, the Typical Section Package was submitted as part of the PD&E Phase

Lessons Learned

- **Public/Agency involvement?**
 - Ability to discuss specific issues with more detail
 - Ability to make decisions sooner in process
 - It was determined that one (1) CAP meeting would take place after the 60% phase submittals in Design

Lessons Learned

- **Project Schedule...**

- Overlapped PD&E and Design
- Looked for items that could be “done once”
 - Property Owner Letters
 - Utility Assessment Package (data collection)
 - Access Management

Lessons Learned

- **Design Negotiations occurred during PD&E...**

- Many elements and items needed for determining staff hours and units were not yet available from the PD&E Phase.
- We attempted to negotiate Design prior to the submittal of draft reports (i.e. Pond Siting) and prior to the Alternative Public Meeting.
- The overlap of the two phases is a valuable effort, but may need to be delayed until a bit further along in the PD&E.
- A conservative estimate of the number and acreage of the pond sites was agreed upon and used as the basis for units.

Lessons Learned

- **Design Negotiations occurred during PD&E...**
 - More accurate determination of side street impacts
 - More accurate determination of signalization impacts
 - Second survey phase to locate recent improvements
 - Many items – Geotech, R/W Mapping, Structural design – negotiated on a 'worst case' scenario
 - Close coordination between FDOT Design and EMO

Thank You



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2006

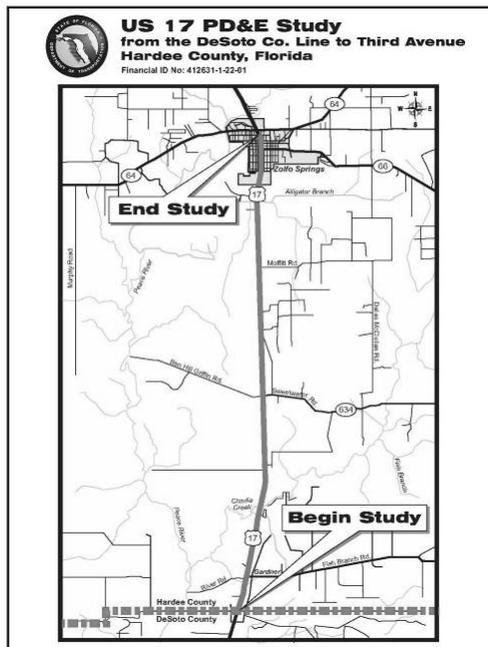


ETDM: Changing the Way We Do Business

Presented by
Gwen G. Pipkin, ETDM Coordinator
FDOT District One
August 1, 2006

The US 17 Hardee County PD&E Study

PDSR mailed to
FHWA 6-14-06



Project Description



**US 17 from south of the DeSoto County Line to
3rd Street in Zolfo Springs, 10.8 miles**

Existing Roadway



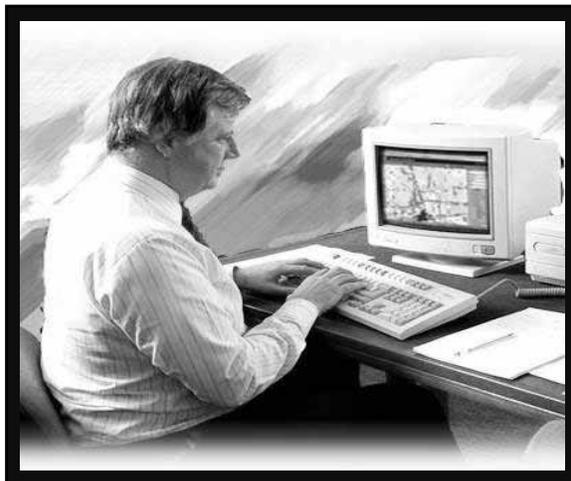
2-Lane rural roadway south of town

Existing Roadway



4-Lane undivided urban roadway in town

ETDM Programming Screen



A Programming screen was conducted in April 2004 one of the first ones completed

ETDM Programming Screen

Project #3051 - US 17
Add Lanes
Summary Report

District: District 1
Phase: Programming
Screen
Planning Organization:

		Evaluation of Direct Effects															Secondary and Cumulative Effects			
		Natural										Cultural		Community						
		Air Quality	Coastal and Marine Contaminated Sites	Farmlands	Floodplains	Infrastructure	Navigation	Special Designations	Water Quality and Quantity	Wetlands	Wildlife and Habitat	Historic and Archaeological Sites	Recreation Areas	Section 4(f) Potential	Aesthetics	Economic	Land Use	Mobility	Relocation	Social
Alternative #1	From Hardee/DeSoto Co/L To: 3rd Ave in Zolfo Springs		3						2	3	2			2		2		3	3	

Only 16 comments obtained from 6 agencies

ETDM Programming Screen

ETDM Environmental Screening Tool - Microsoft Internet Explorer

File Edit View Favorites Tools Help

etdm Environmental Screening Tool est Home Project Input Project Management ETAT Review Screens Sociocultural Effects

Class of Action Determination

Signatures

Reviewers' Signatures	Name	Review Status	Date
FDOT ETDM Coordinator	Owen Figlin	ACCEPTED	07-OCT-2004
Comments	This project covers the last piece of US 17 in this area that has not been 4-laned. No project issues have been identified with a rating over moderate. The Department recommends that this project be processed as a Categorical Exclusion.		
Lead Federal Agency ETAT Member	Memo Chacko (Federal Highway Administration)	ACCEPTED	23-NOV-2004
Comments	Wetland assessment needed as project moves forward.		

Accepted Not Accepted (Provide Explanation Below)

User Name: _____ Password: _____ [Submit] [Cancel]

Public Site Project Information Participating Agencies What's New Contacts Training Events Drive Help FAQ Change Password Logout

The Class of Action (Type II CE) was completed in November 2004

Creating a New Document

- Determined the needs of our Design group
- Convened a multidisciplinary team
- Reviewed the contents and format of our existing PERs
- Incorporated the required PD&E Documents (Type II CE, Preliminary Engineering Report, and Transcript Certification Package) into ONE document
- Eliminated some sections of PER that were never used by our customers
- Created “one stop shopping” for the design staff

PDSR Task Team Members

- Project Manager
 - Tony Sherrard
- PD&E Engineer
 - Marlon Bizerra
- Environmental Administrator
 - Mark Schulz
- Project Engineer
 - Scott McCall
- ETDM Coordinator
 - Gwen Pipkin
- Inwood Consulting Engineers, Inc
 - Alex Hull



PDSR Format

Professional Engineer Certification Page

PROFESSIONAL ENGINEER CERTIFICATE

I hereby certify that I am a registered professional engineer in the State of Florida practicing with Inwood Consulting Engineers, Inc., a Florida corporation, authorized to operate as an engineering business, EB8003556, by the State of Florida Department of Professional Regulation, Board of Engineers, and that I have prepared or approved the evaluation, findings, opinions, conclusions, or technical advice hereby reported for:

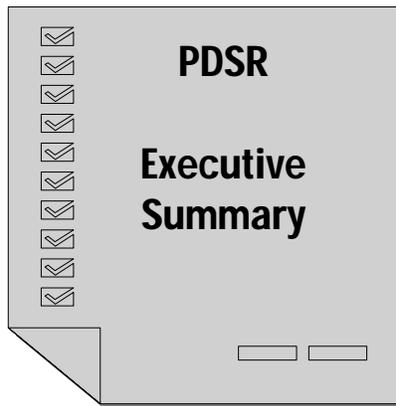
Financial Project ID: 412631-1-22-01
FAP Project Number: N/A
Project: US 17 PD&E Study
County: Hardee
FDOT Project Manager: Tony Bernard

I acknowledge that the procedures and references used to develop the results contained in this report are standard to the professional practice of transportation engineering as applied through professional judgment and experience.

SIGNATURE: 

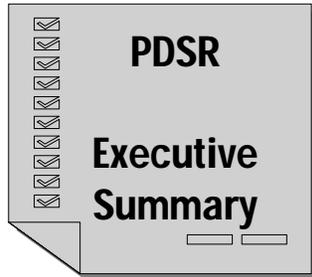
NAME: Alex B. Hull, P.E.
FIRM: Inwood Consulting Engineers
P.E. No.: 21769
DATE: May 24, 2006

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The Executive Summary contains a brief overview of all the pertinent project issues

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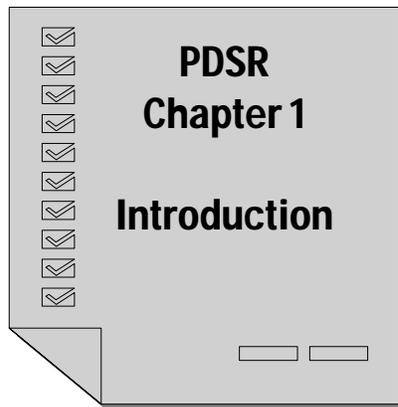


- Production schedule and segments for design

Table 1 - 2006 - 2010 Work Program (Update: 1/20/2006)

US 17	Preliminary Engineering	Right-of-Way	Construction
FPID 420663-1: From CR 634 (Sweetwater Road) to 3 rd Avenue (Zolfo Springs) 5.831 Miles	FY 2006 \$4,085,000	Not Funded	Not Funded
FPID 414547-1: From DeSoto/Hardee County Line to CR 634 (Sweetwater Road) 5.034 Miles	FY 2011 \$3,500,000	Not Funded	Not Funded

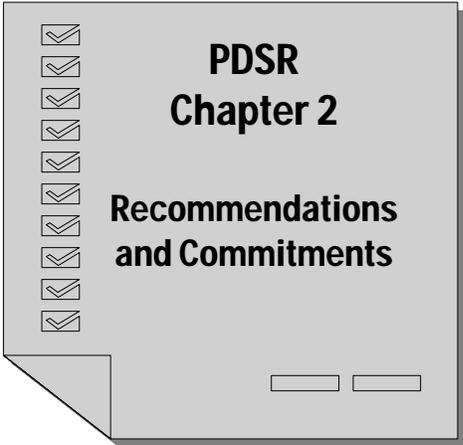
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Purpose
Project
description

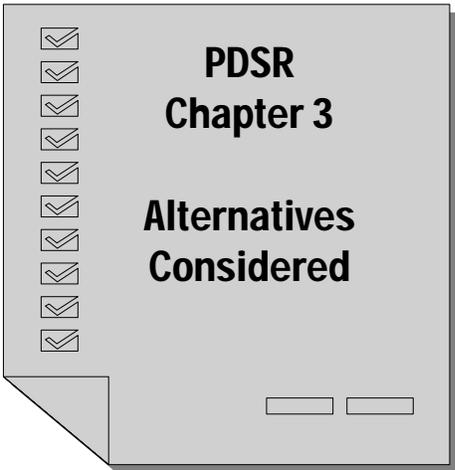
Old PER Chapter 2

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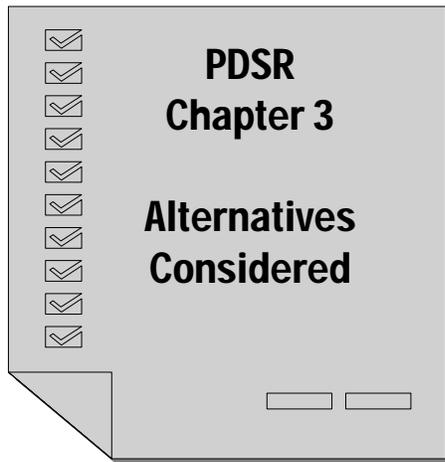
Old PER Chapter 1

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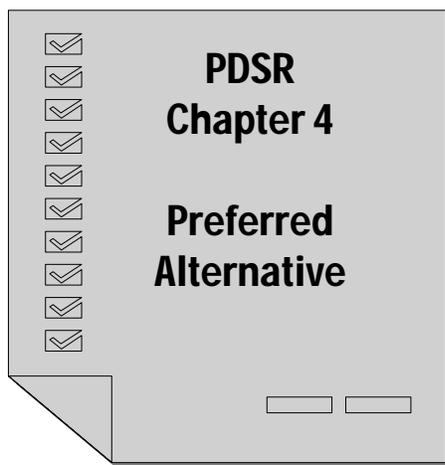
Old PER Chapters 5, 7, 8, and 9

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- Alternatives Considered
- Corridor Analysis
- No-Build Alternative
- TSM
- Build Alternatives
- Design Criteria

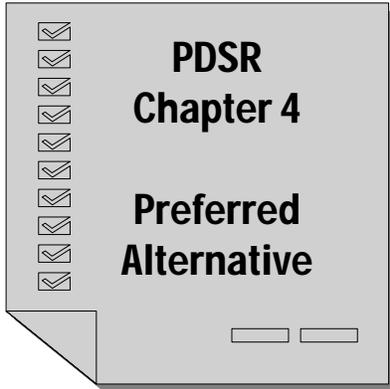
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Existing information from old Chapter 4 & impacts from old Chapter 9 have been integrated into one discussion per topic

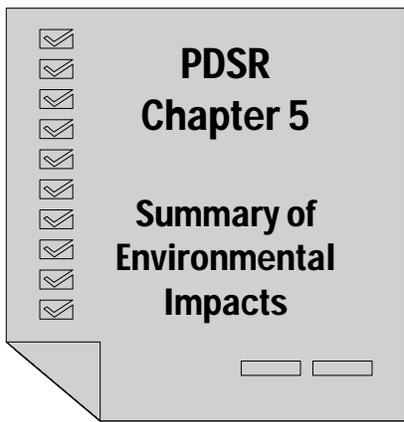
Old PER Chapters 4, 6 & 9

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- Typical Sections
- Horizontal and Vertical Alignment
- Drainage
- Structures
- Traffic
- Pedestrian and Bicycle Facilities
- Access Management
- Right of Way and Relocations
- Utilities and Lighting
- Traffic Control Plan
- Value Engineering
- Production Schedule
- Cost Estimates

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Discussions previously contained in the attachments to the Type II CE are now included in this chapter

Old PER Chapters 4 & 9

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Old 508-01 form ratings have been replaced by the degrees of effect from the ETDM process

Color Code	Degree of Effect	Definition
Blue	Enhances	Natural and Cultural Resources: Project has positive effect on the ETAT resource or can reverse a previous adverse effect leading to environmental improvement. Community Resources: Project has positive effect on community. Affected community supports the proposed project.
Green	Minimum to None	Natural and Cultural Resources: Project has little adverse effect on ETAT resources. Permit issuance or consultation involves routine interaction with the agency. Low-cost options are available to address concerns. Community Resources: Project has minimum adverse effect on elements of the affected community. Minimum community concern about the planned project. Little or no mitigation is needed.
Yellow	Moderate	Natural and Cultural Resources: Agency resources are affected by the proposed project, but avoidance and minimization options are available and can be addressed during Project Development with a moderate amount of agency involvement and moderate cost impact. Community Resources: Project has adverse effect on elements of the affected community. Public involvement is needed to seek alternatives more acceptable to the community. Moderate community involvement is required during Project Development.
Orange	Substantial	Natural and Cultural Resources: The project has substantial adverse effects, but ETAT understands the project need and will seek avoidance and minimization or mitigation options during Project Development. Substantial interaction is required during Project Development and permitting. Community Resources: Project has substantial adverse effects on the community and faces substantial community opposition. Intense community interaction with focused public involvement is required during Project Development to address community concerns.
Red	Dispute Resolution	Natural and Cultural Resources: Project is contrary to a state or federal resource agency's program, appears non-permissible, has significant environmental issues or purpose and need is disputable. Community Resources: Community strongly opposes the project. Project is not in conformity with local comprehensive plan and has severe negative impact on the affected community.

Table 5-2 - Summary of Environmental Impacts Checklist

Tropical Category	Enhances	Substantial	Moderate	Minimal to None	Adverse	Basis for Decision*
A. NATURAL ENVIRONMENT						
1. Coastal and Marine	()	()	()	(X)	()	Section 5.1.1
2. Farmlands	()	()	()	(X)	()	Section 5.1.2
3. Floodplains	()	()	()	(X)	()	Section 5.1.3
4. Special Designation	()	()	()	(X)	()	Section 5.1.4
5. Water Quality	()	()	()	(X)	()	Section 5.1.5
6. Wetlands	()	()	()	(X)	()	Section 5.1.6
7. Wildlife and Habitat	()	()	(X)	()	()	Section 5.1.7
B. CULTURAL ENVIRONMENT						
1. Historical / Archeological	()	()	()	(X)	()	Section 5.2.1
2. Recreation Lands	()	()	()	(X)	()	Section 5.2.2
3. Section 4(f) Lands	()	()	()	(X)	()	Section 5.2.3
C. SOCIAL ENVIRONMENT						
1. Aesthetics	()	()	()	(X)	()	Section 5.3.1
2. Economic	()	()	()	(X)	()	Section 5.3.2
3. Land Use Changes	()	()	()	(X)	()	Section 5.3.3
4. Mobility	()	()	()	(X)	()	Section 5.3.4
5. Social	()	()	(X)	()	()	Section 5.3.5
6. Relocation Potential	()	()	(X)	()	()	Section 5.3.6
7. Infrastructure	()	()	(X)	()	()	Section 5.3.7
D. OTHER						
1. Noise	()	()	(X)	()	()	Section 5.4.1
2. Air Quality	()	()	()	(X)	()	Section 5.4.2
3. Construction	()	()	()	(X)	()	Section 5.4.3
4. Contamination	()	()	()	(X)	()	Section 5.4.4
5. Navigation	()	()	()	(X)	()	Section 5.4.5

* - The Basis for Decision in Table 5-2 refers to supplemental information contained in this report and contains the reference to the section of the report where the supplemental information can be found.

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Old 508-01 subject categories have been replaced by the categories from ETDM, including the 6 new Sociocultural issues

Project #3051 - US 17
Add Lanes
Summary Report

District: District 1
Phase: Programming
Screen

Planning Organization:
From Hardee/DeSoto
Cov. To: 3rd Ave in
Alternative #1 - Zolfo Springs.

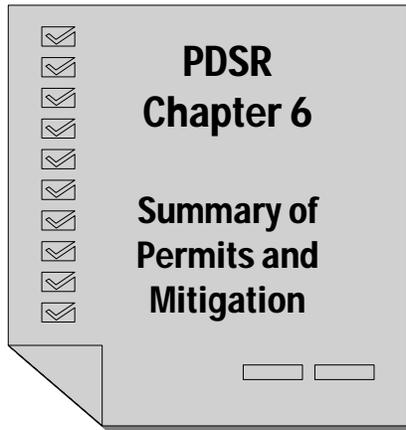
Evaluation of Direct Effects		
Natural	Cultural	Community
Air Quality Coastal and Marine Contaminated Sites Farmlands Floodplains Hazardous Waste Navigation Social Designations Water Quality and Quantity Wetlands Wildlife and Habitat	Historic and Archeological Sites Recreation Areas Section 4(f) Potential Aesthetics Economic Land Use Mobility Recreation Social	Secondary and Cumulative Effects
3	3	3

Table 5-2 - Summary of Environmental Impacts Checklist

Tropical Category	Enhances	Substantial	Moderate	Minimal to None	Adverse	Basis for Decision*
A. NATURAL ENVIRONMENT						
1. Coastal and Marine	()	()	()	(X)	()	Section 5.1.1
2. Farmlands	()	()	()	(X)	()	Section 5.1.2
3. Floodplains	()	()	()	(X)	()	Section 5.1.3
4. Special Designation	()	()	()	(X)	()	Section 5.1.4
5. Water Quality	()	()	()	(X)	()	Section 5.1.5
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7. Wildlife and Habitat	()	()	(X)	()	()	Section 5.1.7
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C. SOCIAL ENVIRONMENT						
1. Aesthetics	()	()	()	(X)	()	Section 5.3.1
2. Economic	()	()	()	(X)	()	Section 5.3.2
3. Land Use Changes	()	()	()	(X)	()	Section 5.3.3
4. Mobility	()	()	()	(X)	()	Section 5.3.4
5. Social	()	()	(X)	()	()	Section 5.3.5
6. Relocation Potential	()	()	(X)	()	()	Section 5.3.6
7. Infrastructure	()	()	(X)	()	()	Section 5.3.7
D. OTHER						
1. Noise	()	()	(X)	()	()	Section 5.4.1
2. Air Quality	()	()	()	(X)	()	Section 5.4.2
3. Construction	()	()	()	(X)	()	Section 5.4.3
4. Contamination	()	()	()	(X)	()	Section 5.4.4
5. Navigation	()	()	()	(X)	()	Section 5.4.5

* - The Basis for Decision in Table 5-2 refers to supplemental information contained in this report and contains the reference to the section of the report where the supplemental information can be found.

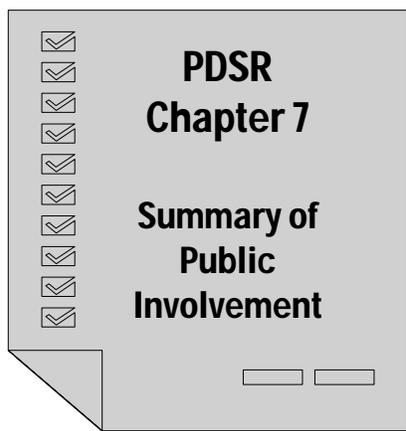
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- Permits required
- Permits obtained
- Work done in support of permits
- Mitigation options available

Old PER Chapter 9

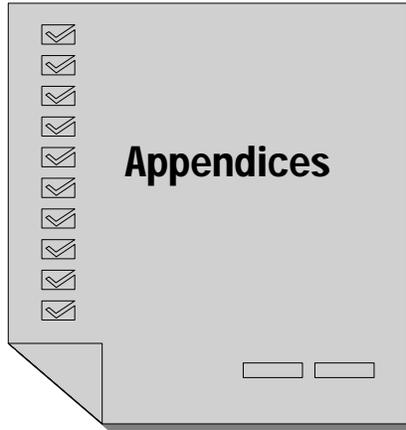
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- Public Involvement Plan
- ETDM Screening
- Advance Notification
- Newsletters
- Small group meetings
- Public workshop
- Public hearing

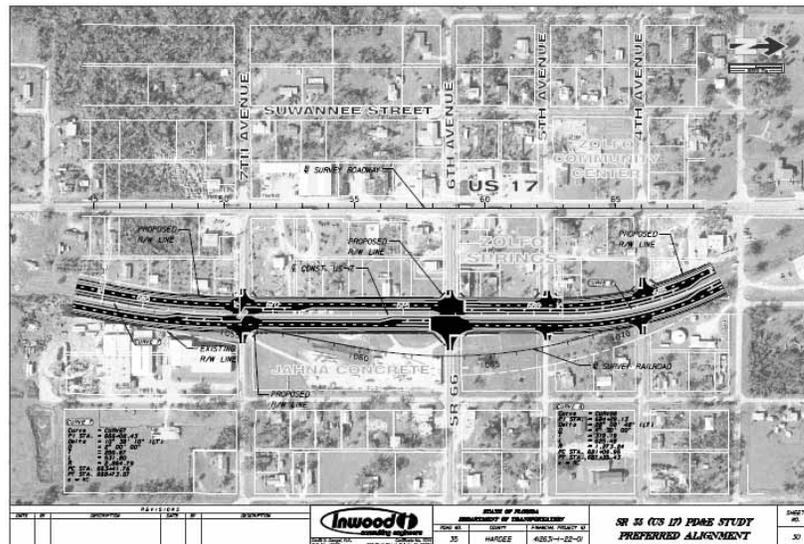
Summary of Comments & Coordination Report

Appendices to the PDSR



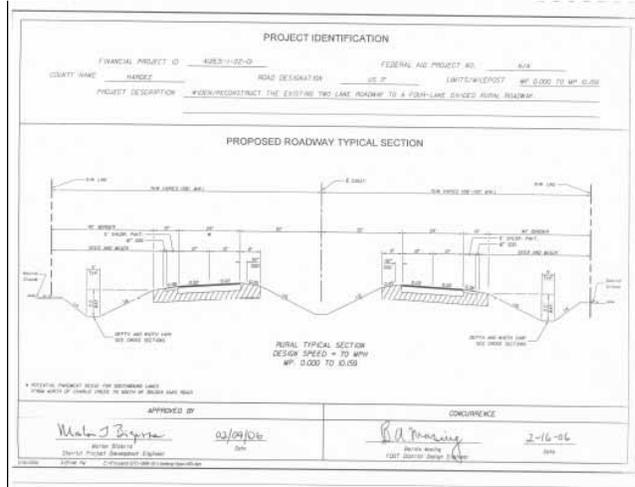
- Concept Plans
- Typical Section Package
- Design Variations
- Long Range Estimates
- ETDM Summary Report
- Agency Clearance Letters
- Public Hearing Transcript & Comments

Appendices to the PDSR



11 x 17 set of Concept Plans for the preferred alternative

Appendices to the PDSR



Typical Section Package

Appendices to the PDSR

Design Variations and Exceptions

To: Mr. Bernie Masino, District Design Engineer Date: May 4, 2005

Subject: Design Variation

Financial Project ID: 412631-1-22-01
 County Section Number: 06010
 State Road Number: SR 35, US 17
 Federal Aid Number: N/A
 Federal Oversight: Yes No

Project Description: Four lane rural widening from the DeSoto County Line to the southern limits of the Town of Zolfo Springs and four-lane urban widening from the southern limits of the Town of Zolfo Springs to 3rd Avenue.

Begin Milepost: 0.000 End Milepost: 10.865
 New Construction: RRR:

A design variation is requested for the following element(s):

<input type="checkbox"/> Design Speed	<input type="checkbox"/> Lane Widths	<input type="checkbox"/> Shoulder Width
<input type="checkbox"/> Bridge Widths	<input type="checkbox"/> Structural Capacity	<input type="checkbox"/> Vertical Clearance
<input type="checkbox"/> Grades	<input type="checkbox"/> Cross Slope	<input type="checkbox"/> Superelevation
<input type="checkbox"/> Horizontal Alignment	<input type="checkbox"/> Vertical Alignment	<input type="checkbox"/> Stopping Sight Distance
<input checked="" type="checkbox"/> Horizontal Clearance	<input checked="" type="checkbox"/> Other - Border Width	

INTRODUCTION

This Design Variation is being requested as part of the preliminary design of the four lane widening of SR 35 (US 17) in Hardee County, Florida from the DeSoto County Line to 3rd Avenue in Zolfo Springs. US 17 is currently a two-lane rural roadway from the DeSoto County Line to the southern limits of the Town of Zolfo Springs and a four-lane undivided urban roadway through the Town of Zolfo Springs. US 17 is classified as a rural Principal Arterial. The existing posted speed limit is 60 miles per hour (mph) through the section of US 17 from the DeSoto County Line to the southern limits of Zolfo Springs and 35 mph through the Town of Zolfo Springs. US 17 is part of the Florida Intra-state Highway System (FIHS). There are three bridges within the project limits at Charlie Creek, Charlie Creek overflow area and at Alligator Branch. The project length is approximately 10.9 miles. Please see Attachment 1 (Segment 3 Concept Plans) and Attachment 2 (Segment 3 Preferred Typical Section).

Appendices to the PDSR

Date: 6/20/06 9:57:57 AM
FDOT Long Range Estimating System
R3: Project Details by Sequence Report

Project: 412681-1-22-01 Letting Date: 01/20/09
 Description: US 17 FROM DEBOTO COL. TO THIRD AVE (ZOLFO SPR)
 District: 01 County: DE HARDEE Market Area: 06 Units: English
 Contract Class: 4 Lump Sum Project N Design/Built: N Project Length: 10.980 MI
 Project Manager: RAL-RLC

Version 32 Project Grand Total **\$48,350,583.38**
 Description: 416547-1 (Design Segment 1)- DeBoto Co. Line to Sweetwater Unit Cost Update 06/20/06
 Sequence: 1NDR - New Construction, District, Rural Net Length: 3.963 MI
 Description: Design Segment 1 - Full Reconstruction (STA 100+0 to STA 209+42)

Long Range Estimates

EARTHWORK COMPONENT					
User Input Data					
Description	Value				
Standard Clearing and Grubbing Limits LIR	106.00 / 106.00				
Incidental Clearing and Grubbing Area	1.14				
Alignment Number	1				
Distance	3.433				
Top of Structural Course For Begin Section	105.00				
Top of Structural Course For End Section	105.00				
Horizontal Elevation For Begin Section	100.00				
Horizontal Elevation For End Section	100.00				
Front Slope LIR	6 to 1 / 6 to 1				
Median Slope LIR	6 to 1 / 6 to 1				
Median Shoulder Cross Slope LIR	5.00 % / 5.00 %				
Outside Shoulder Cross Slope LIR	6.00 % / 6.00 %				
Roadway Cross Slope LIR	2.00 % / 2.00 %				
Alignment Number	2				
Distance	0.200				
Top of Structural Course For Begin Section	115.00				
Top of Structural Course For End Section	115.00				
Horizontal Elevation For Begin Section	100.00				
Horizontal Elevation For End Section	100.00				
Front Slope LIR	6 to 1 / 6 to 1				
Median Slope LIR	6 to 1 / 6 to 1				
Median Shoulder Cross Slope LIR	5.00 % / 5.00 %				
Outside Shoulder Cross Slope LIR	6.00 % / 6.00 %				
Roadway Cross Slope LIR	2.00 % / 2.00 %				
Pay Items					
Pay Item	Description	Quantity	Unit	Unit Price	Extended Amount
110-1-1	CLEARING & GRUBBING	94.15 AC		\$15,000.00	\$1,411,950.00
110-1-1	CLEARING & GRUBBING	1.14 AC		\$15,000.00	\$17,100.00
120-8	EMBANKMENT	532,249.49 CY		\$20.00	\$10,644,989.20
Earthwork Component Total					\$12,074,043.20

Appendices to the PDSR

ETDM Programming Summary Report

Summary Report

Project #3051 - US 17 Add Lanes, Published on 10/07/2004

District:	District 1	Phase:	Programming Screen
County:	Hardee County	From:	0.00 (DeBoto Co.L)
Planning Organization:	FH&I Central Office	To:	10.9 (3rd Ave / Zolfo Springs)

Evaluation of Direct Effects

Alternative #1	Air Quality	Cultural and Marine	Contaminated Sites	Floodplains	Floodplains Infrastructure	Navigation	Special Designations	Water Quality and Quantity	Wetlands and Wetland	Wetlands and Wetland	Historic and Archeological Sites	Recreation Areas	Section 4(f) Potential	Evaluation of Direct Effects			
														Natural	Cultural	Community	
1	3																

Project #3051 - US 17 Add Lanes Summary Report
 District: District 1
 Phase: Programming Screen
 Planning Organization: FH&I Central Office

From Hardee/DeBoto Co.L To: 3rd Ave In Zolfo Springs

Appendices to the PDSR

Agency Concurrence Letters

United States Department of the Interior

FISH AND WILDLIFE SERVICE
South Florida Ecological Services Office
1139 20th Street
Vero Beach, Florida 32980

November 29, 2005

Elizabeth Sordynski
Florida Department of Transportation
Post Office Box 1249
Bartow, Florida 33831-1249

RECEIVED
DEC 06 2005
ENVIRONMENTAL
MANAGEMENT OFFICE

Service Log No.: 4-1-04-PL-7312
Date Received: October 6, 2005
Project: U.S. Highway 17, DeSoto County Line
to 3rd Avenue in Zolfo Springs
County: Hardee

Dear Ms. Sordynski:

The Fish and Wildlife Service (Service) has received your letter dated October 3, 2005, and the Endangered Species Biological Assessment dated September 2005 regarding the proposed widening of U.S. Highway 17. This information was submitted on behalf of the Federal Highway Administration. This letter represents the Service's view on the effects of the proposed action on threatened and endangered species in accordance with section 7 of the Endangered Species Act of 1973, as amended (ESA) (87 Stat. 884; 16 U.S.C. 1531 et seq.).

PROJECT DESCRIPTION

The Florida Department of Transportation (FDOT) proposes to widen U.S. Highway 17 from the DeSoto County line to 3rd Avenue in the City of Zolfo Springs. The existing two-lane road will be enlarged to four lanes. The purpose of the project is to relieve traffic congestion associated with ongoing human population growth and development, and to provide additional hurricane evacuation capacity. The project is located in Sections 2, 3, 10, 22, and 15, Township 36 South, Range 25 East; Sections 2, 3, 10, 15, 22, 27, and 34, Township 23 South, Range 35 East; and Sections 27 and 34, Township 25 South, Range 34 East, Hardee County, Florida.

THREATENED AND ENDANGERED SPECIES

Red-cockaded woodpecker

The project corridor is not located within the Service's consultation area for the endangered red-cockaded woodpecker (*Picoides borealis*). The FDOT has determined the project will have "no effect" on the red-cockaded woodpecker. The Service supports this determination.

**TAKE PRIDE
IN AMERICA**

Appendices to the PDSR

Public Hearing Transcript and Comments

17 **US 17 Project Development and Environment (PD&E) Study**
from the DeSoto County Line to 3rd Avenue in Zolfo Springs
Hardee County, Florida
Financial Project ID: 412631-1-22-01

RECEIVED
APR 10 2006

Public Hearing - March 30, 2006 ENVIRONMENTAL
MANAGEMENT OFFICE

COMMENT FORM

We would like to see a deceleration lane on the North
bound lane entering Brookside Bluff Condominiums Hwy Drive
and a acceleration lane going south bound from the park
If you will be pulling out into the South bound passing
lane we would also like to see the same happen
from south and north of the Condominiums Hwy Drive
this would also not be a safety hazard. Thank you
for your time.

P.S. Approval of where you are running both lanes
west side of park

Paul Swannick, Prop
Brookside Bluff Condominiums

Name: Paul Swannick
Address: 1751 Brook Blvd
Zolfo Springs, FL 33890

Please place this form in the Comment Box or mail it, postmarked no later than April 10, 2006, to the address below. If you choose to mail this form, please fold as indicated on the reverse side, tape together, and mail. You may also leave your comments on the project website at www.us17pd&e.com.

Mr. Tony Sherrard
Florida Department of Transportation
Post Office Box 1249
Bartow, Florida 33831
tony.sherrard@dot.state.fl.us



Benefits Obtained

Several benefits were obtained from the Integration of the ETDM process into a PD&E project :

- **The Class of Action was determined prior to the start of the study**
- **A more focused scope resulted in cost savings**
- **A new streamlined document was created**
- **We created an opportunity for several disciplines to work together to create a concise and useful reference document**

FICE/FDOT
Design Conference
2006



Changing the Way We Do Business

Presented by
Gwen G. Pipkin
FDOT District One
2006 Design Conference
Session 14, August 1, 2006

Thank You for the Opportunity to
Present

Questions for the Panel ??

