



V D V K W R

W I P H G S u r j u d p S u h v h q w d w l r q

Louisiana

**TIMED**

Program



TIMED Program Delivered:  
The Road That Got Us There!

D x j x v w 5 9 / 5 3 4 7



# TIMED Program

- ❖ Transportation Infrastructure Model for Economic Development
- ❖ Established by Act 16 of the 1989 Louisiana Legislature
- ❖ Voted on and Approved by the People of Louisiana
- ❖ Four cent additional gasoline and special fuels tax authorized
- ❖ Sixteen Major Projects
- ❖ \$5 Billion program (current cost)
- ❖ Largest transportation program in LA history



# TIMED Program

- ❖ Enhance economic development
- ❖ Statutory Target of 80% Residency
- ❖ Connect major cities of Louisiana with four lane highways
- ❖ Bridge crossings to promote connectivity
- ❖ Funding for intermodal enhancements



# TIMED Program Projects

- ❖ 16 Projects Across the State
- ❖ Widen over 500 Miles of Highways on 11 Corridors
- ❖ Widen/new Construction of Three Major Bridges
- ❖ Improvements to the Port of New Orleans and New Orleans International Airport





# Initial Progress of the Program

- ❖ Act 16 Allowed for Bond Sale of \$264M in 1990 to Kick off Program.
- ❖ DOTD Initially Delivered TIMED Projects with “pay-as-you-go” Funding
- ❖ Delivery was Slower Than Most were Willing to Accept.
- ❖ Tax Initially Set to Expire in 15 years (2005)
- ❖ By the Late 1990’s, Four of the Program’s Sixteen Projects were Complete.
- ❖ Estimated Completion Date was Projected for 2031.
- ❖ Discussions Began Focused on How the Overall Program Could be Accelerated.



# Proposed Acceleration Plan

- ❖ Accelerate the Construction Schedule
- ❖ Let all Projects Prior to 2010
- ❖ Complete Construction of Highway Projects by 2010
- ❖ Complete Construction of Bridge Projects by 2012
- ❖ Finance the Completion of the Program Through Periodic Issuance of Fuel Tax Revenue Bonds
- ❖ Hire a Program Manager



# Additional Enabling Legislation

- ❖ Act 64 of 1998
  - ▲ Extended the Act 16 Taxes until TIMED Projects are Complete or the Debt is Repaid
  - ▲ Allowed for Project Estimate Revisions
- ❖ Act 1 of 2000
  - ▲ Extended the Opportunity to Issue Revenue Bonds from 2005 to 2010
    - Second Bond Sale in 2002 for \$275 million
  - ▲ Extended the Allowable Bond Maturity Term from 20 to 30 years

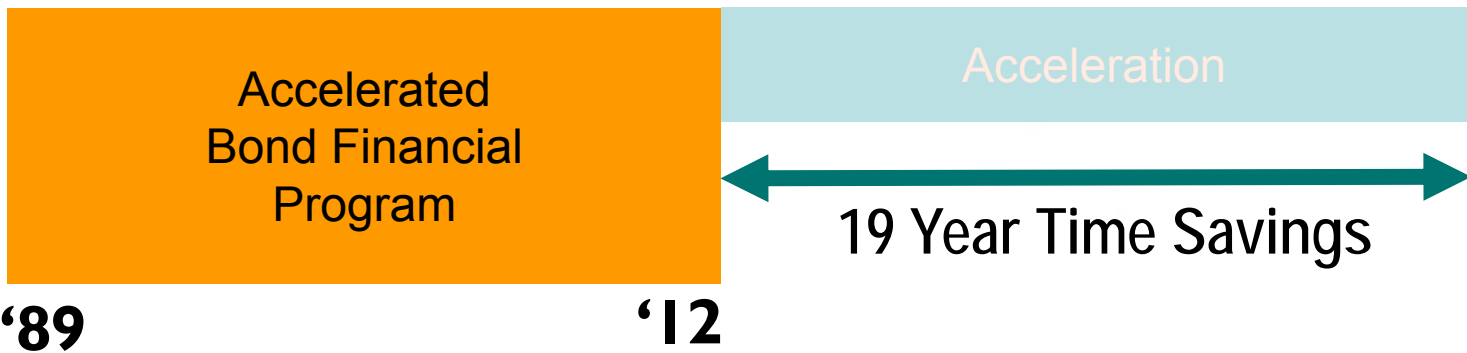


# Program Acceleration

1989

2031

Original Pay-As-You-Go  
Financed TIMED Program



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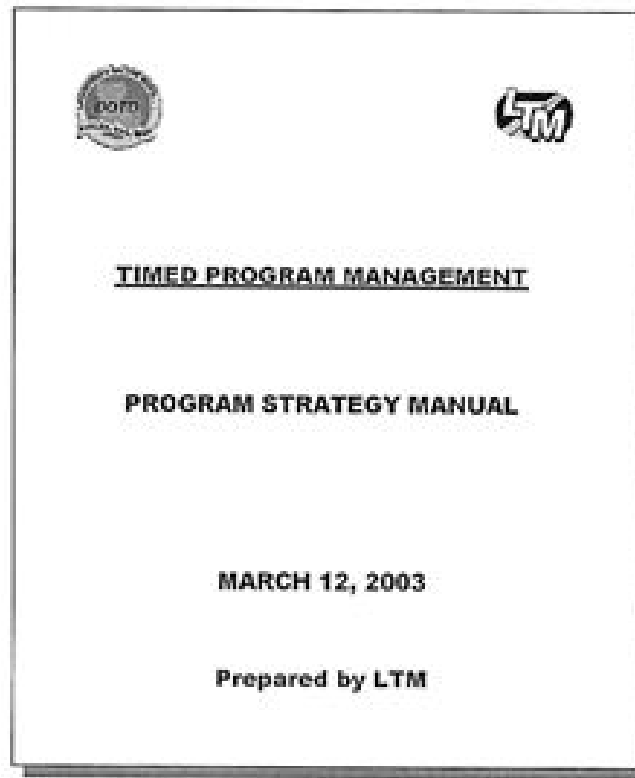
# Hire Program Manager

## ❖ Procurement

- ▲ DOTD Advertised for Program Manager, July 2001
- ▲ Three Competative Proposals Received, November 2001.
- ▲ Selection of Louisiana TIMED Managers (LTM) Announced December 2001
- ▲ Contract Agreement Signed June 2002

# Align

- ❖ Provide Management Program
- ❖ A Partnership Between DOT and LTM
- ❖ Align Roles and Responsibilities
- ❖ End Product of Alignment Process
  - Program Strategy Manual
  - Manual Provides Guidance as to Procedures, Roles and Responsibilities, and DOTD/LTM Interfaces



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Between LTM and  
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in Specific Roles,  
, Followed During



# Scope of Manager Services

- ❖ Implement TIMED Program Strategy
- ❖ Overall Program Financial Management
- ❖ Program Scheduling
- ❖ Project Segment Design Oversight
- ❖ Right-of-Way Management, Acquisition and Relocations
- ❖ Utility Relocation Coordination
- ❖ Environmental Permitting, including Site Assessment of Abandoned Hazardous Waste Site (Underground Storage Tanks)
- ❖ Construction Engineering and Inspection
- ❖ Public Outreach
- ❖ LTM served as a unit of DOTD
  - ▲ LTM Structure Mimicked DOTD's
  - ▲ Given Autonomy to Act on Behalf of DOTD



# Louisiana TIMED Managers

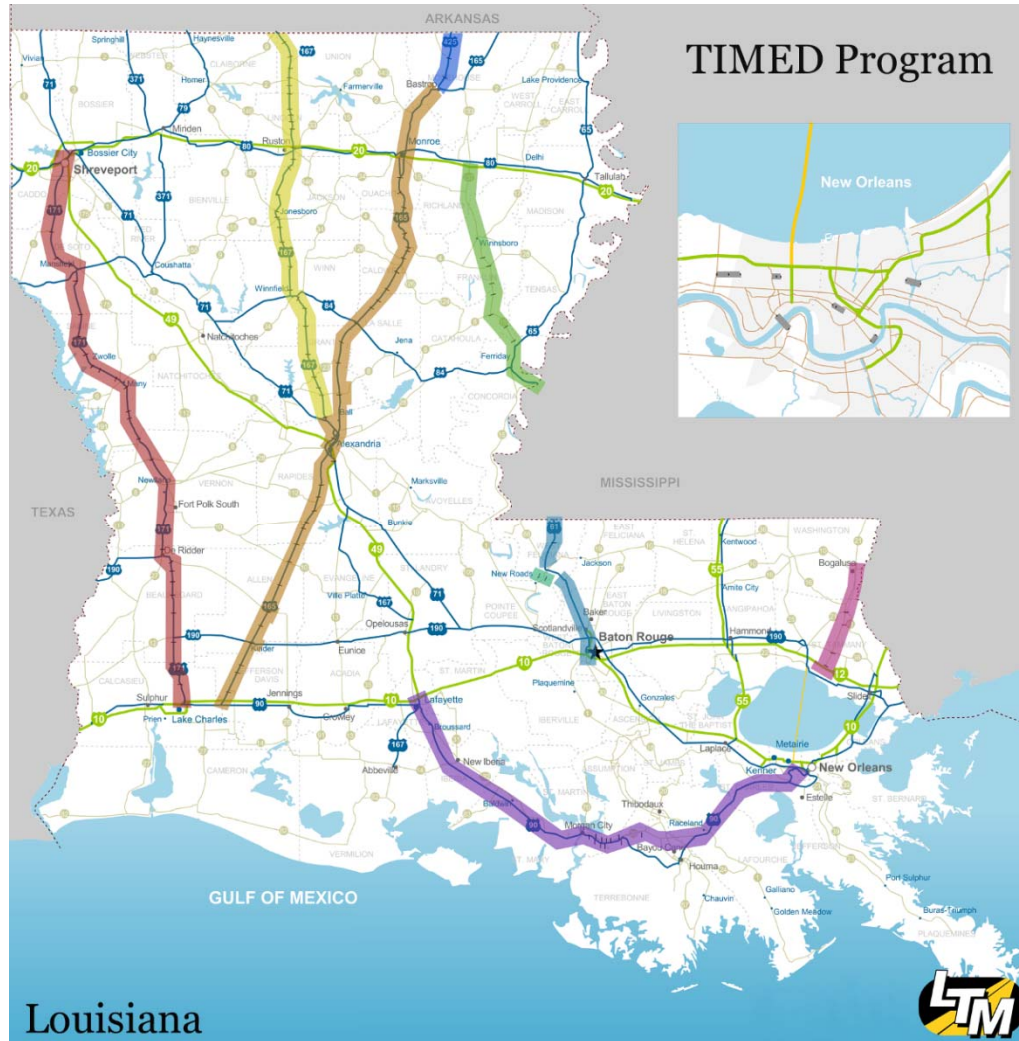


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# TIMED Program



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# Scope of LTM Services

- ❖ Accelerate Schedule and Maintain Budget
- ❖ Manage the Program Finances
- ❖ Eliminate Environmental Issues
- ❖ Design Oversight
- ❖ Negotiate & Acquire Right-of-Way
- ❖ Negotiate & Manage Utility Relocation
- ❖ Assemble Contract Documents for DOT Lettings
- ❖ Perform Construction Administration & Inspection
- ❖ Public Outreach



# OVERVIEW

- ❖ Goals
  - ▲ Complete Highway Program by 2010 and Under Budget
- ❖ Challenges
  - ▲ Utilize as a Minimum 80% Louisiana Residents
  - ▲ Innovation is Required to Meet the Goal
- ❖ “How LTM and TIMED is Different”
  - ▲ Finite Number of Projects with a Finite Schedule
  - ▲ Single Funding Source
  - ▲ Committed Resources
- ❖ Changes Are Difficult to Implement



# INNOVATIONS

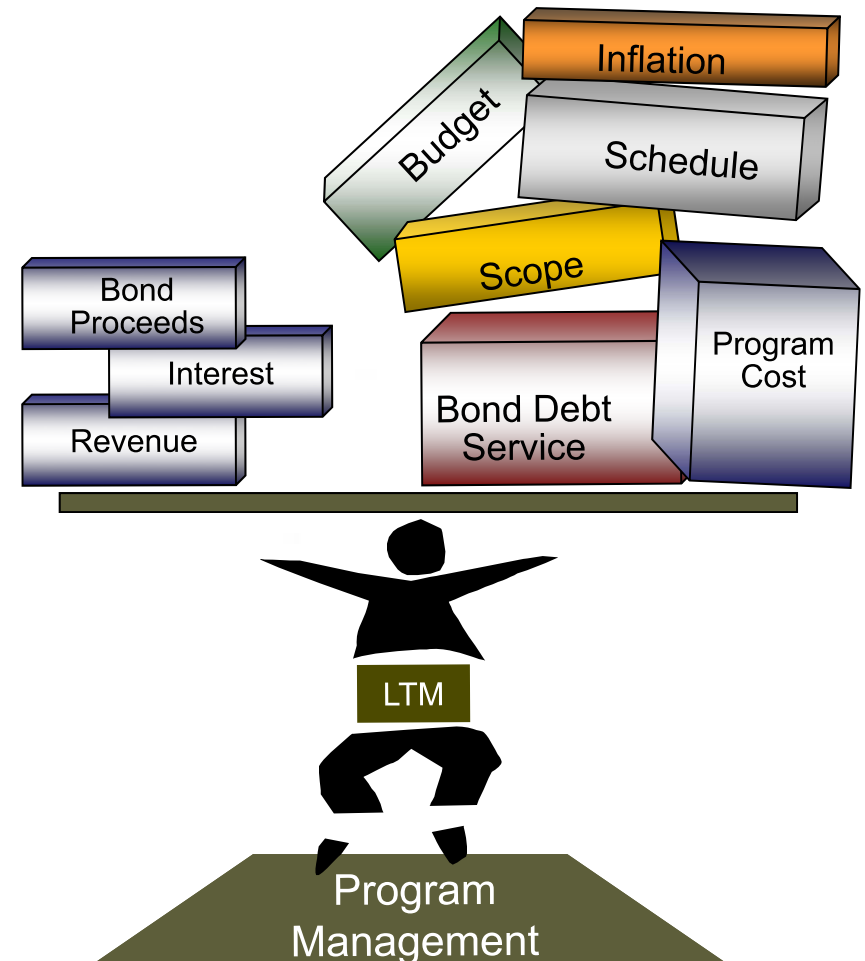
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- ❖ Financial Cash Management of TIMED
- ❖ SCORE
- ❖ Early Involvement – Environmental
- ❖ Environmental GIS Database
- ❖ Use of State Owned Land Banks
- ❖ Systems Approach – Project Development
- ❖ Use of Utility Corridors
- ❖ Site Manager
- ❖ Reduce Construction Delays
- ❖ Lump Sum Bidding



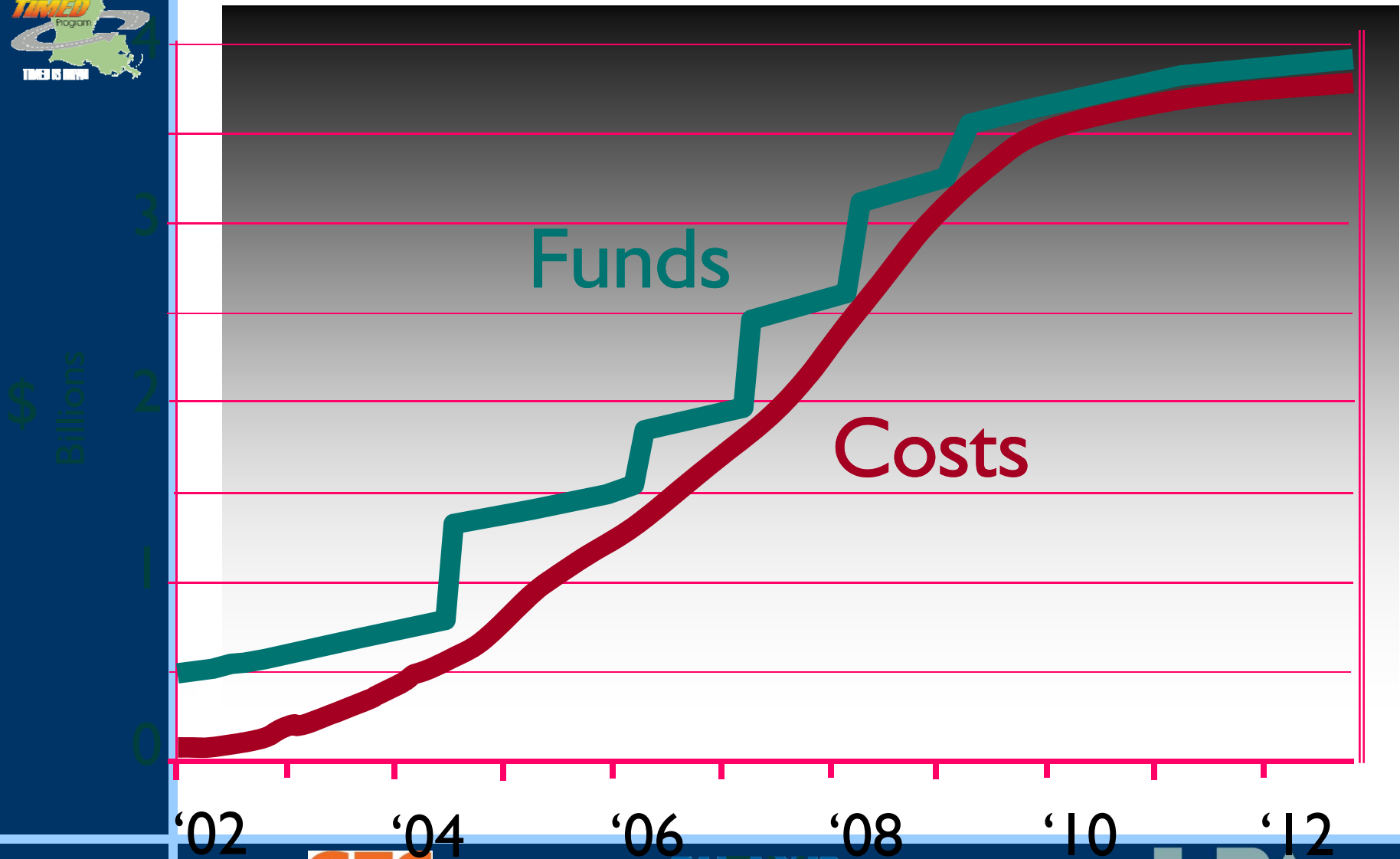
# Cash Management

Using Debt Financing  
Reduce borrowing costs  
Monies provided when needed  
Cost effective financial  
management process





# Cash Management



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# SCORE

Financial, Schedule & Program Management Reports

SCORE

Schedule, Cost, Management

LTM DIRECTORY WEB LINKS LTM SCHEDULE OF EVENTS

Program


URL: Program

Web Based System

- Management
- Schedule
- Financial
- Outreach
- Design
- Environmental
- Right-of-Way
- Utilities
- Construction
- Projects

All Drawings & Correspondence Electronically Accessible

Timely Access to Program Information



**LTM Louisiana TIMED Managers**

**TIMED PROGRAM STATUS REPORT**  
Project Detail  
Cumulative-Table  
April 30, 2003

Project	Expended to Date	Estimate to Complete	Current Budget
US 171 - Lake Charles to Shreveport	\$160,456,872	\$388,205,459	\$548,662,332
US 165 - I-10 - Alexandria-Monroe-Bastrop-Arkansas Line	\$144,673,110	\$595,418,792	\$740,091,902
US 90 - Morgan City to Houma (Completed)	\$255,402,070	\$180,181	\$255,582,251
US 167 - Alexandria-Buston to Arkansas Line	\$80,921,300	\$496,047,676	\$576,968,976

Activity ID	Original Division	Start	Finish	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
<b>LOUISIANA DOTD TIMED PROGRAM</b>													
US171 Lake Charles to Shreveport	30120	31-Oct-01 A	28-Jan-10	[Gantt Chart]									
<b>State Route in Mansfield</b>													
025-05-0024 Design	7920	01-Jan-03 A	02-Mar-05	[Gantt Chart]									
Environmental	9830	01-Nov-02 A	20-Aug-05	[Gantt Chart]									
Right of Way Acquisition & Relocation	4200	17-Apr-05	10-Jun-06	[Gantt Chart]									
Utilities	1670	14-Feb-07	30-Jul-07	[Gantt Chart]									
Construction	11320	16-Nov-06	21-Dec-09	[Gantt Chart]									
Project Segment Mgmt	21720	10-Nov-03	20-Dec-06	[Gantt Chart]									
<b>Sabine Line - Mansfield</b>													
Design	6050	01-Apr-03 A	25-Nov-04	[Gantt Chart]									
Environmental	8190	01-Nov-02 A	29-Mar-05	[Gantt Chart]									
Right of Way Acquisition & Relocation	4500	30-Sep-03	22-Dec-04	[Gantt Chart]									
Utilities	1670	23-Feb-06	08-Aug-06	[Gantt Chart]									
Construction	15870	19-May-05	21-Sep-09	[Gantt Chart]									
Project Segment Mgmt	22290	17-Jun-03	23-Jul-06	[Gantt Chart]									
<b>Converse - DeSoto Line (DOTD Pre Const)</b>													
	5450	01-Jun-02 A	27-Nov-03	[Gantt Chart]									

**LTM Louisiana TIMED Managers**

**PROJECT STATUS REPORT**  
Project Detail  
May 31, 2003

Project: US 171

General Comments	
[Empty Box]	

Design	
# of Consultants	38
Complete Design	Scheduled 2/2/2005 Current 3/30/2005
Contract Value	\$19,090,725 Expended to Date \$12,478,479
Estimate to Complete	\$6,612,246 % Complete 65.36%
Estimate at Completion	\$19,670,224

Utilities	
Complete Relocation	Scheduled 7/30/2007 Current 7/30/2007
Total # of Agreements	0
Agreement Value	\$11,324,455 Expended to Date \$6,593,335
Estimate to Complete	\$4,731,160 % Complete 58.22%
Estimate at Completion	\$17,715,665

Environmental	
Enviro. Site Assess.	Scheduled 5/3/2003 Current
Remediation	Scheduled Current
Contract Value	\$0 Exp. to Dat \$0 Est. to Comp \$1,590,246
T/E Cultural Surveys	Scheduled Current
Wetlands Delineation	Scheduled Current

Right of Way	
Total # of Parcels	455 # of Relocations 153
# of Parcels Acquired	0 # of Relo. Complete 0
ROW Clear Date	Scheduled 6/13/2006 Current 6/13/2006
Current Budget	\$64,209,971 Expended to Date \$28,974,970
Estimate to Complete	\$35,235,001 Estimate at Completion \$64,209,971

Construction	
# of Contracts	Finish Date: Scheduled Current
Original Contract Value	Change Orders
Current Contract Value	Expended to Date
Estimate to Complete	% Complete
Estimate at Completion	



# Early Involvement - Environmental

Accelerated all List B environmental activities  
 Removed environmental from the critical path  
 Discovered environmental problems early  
 Avoid environmental cost overruns and delays

Agency	Finished	Further Action Required	Completion Date
SHPO	35 / 37	2 (II & III)	Phase II – 7/04 Phase III – 7/05
NRCS	37 / 37	None	April 2003
LDFW	1 / 7	6 Scenic Stream Permits	April 2007
USCG	37 / 37	None	October 2003
USFWS	28 / 37	Survey reports for nine segments	June 2004
FEMA	37 / 37	None	May 2004
EPA Aquifers	37 / 37	None	March 2003
USCOE	27 / 37	10 Wetlands permit applications remaining to be submitted. Have received 3 permits.	September 2004



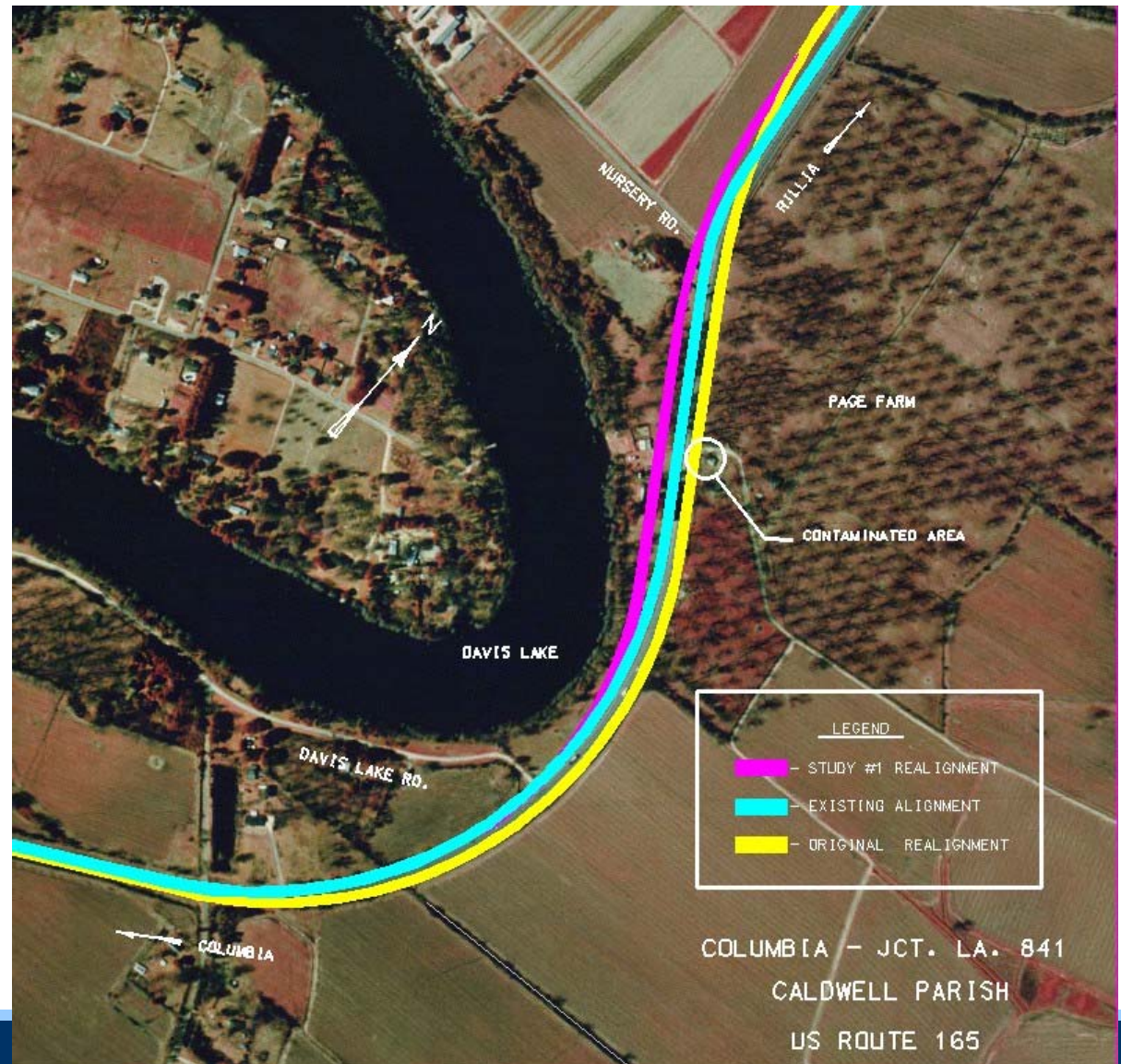
# Phase I Assessments Locate Potential Issues



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# Early Involvement - Environmental

Example:  
US 165  
Page Farm  
Leaking UST  
Ground water  
contaminated





# Environmental GIS Database

Created GIS on the entire List B project segments  
Key for organizing the environmental process  
Web-based for greater accessibility to Design, ROW, Utilities and Construction  
Facilitates the environmental process

## Current Information Residing in GIS Database

USGS quadrangles	Color aerial photos
Engineering plans	WRP properties
Prime farmlands	Scenic Streams
Navigable waters	Sole source aquifers
Water wells	Environmental sites
DNR data	Field data from ESAs
T/E surveys	Wetland delineations
LDWF Natural Heritage Database	

# Environmental GIS Database

Timed Project Appendix B GIS Data - Microsoft Internet Explorer

Timed Project Appendix B GIS Data

Zoom In Zoom Out Zoom to State Pan Identify Measure Clear Selection Toggle Overview

**Layers Legend Print Find**

- All Layers
- Analysis Layers
  - Abandoned Sites
  - Emergency Response
  - Generators
  - Leaking Underground Storage T
  - NFRAP
  - Oil and Gas Wells
  - Pipeline Crossing
  - Powerlines
  - Soil Points
  - Solid Waste
  - Underground Storage Tanks
  - Water Wells
- Field Data
  - Phase I ESA
  - Phase II ESA (points)
  - Phase II ESA (areas)
  - RCW Clusters from Field Data
  - T and E Cover Types
  - Wetlands
  - Wetlands Reserve Program
- General Transportation
  - Railroads
  - Roads
- Louisiana Reference Data
  - Cities and Towns
  - Parishes
  - State Boundary
- Water
  - Streams and Rivers
  - Water Bodies
  - Aquifers Sole Source
  - Natural Heritage
  - Prime and Unique Farmlands
  - Project Roads
  - Right of Ways
  - Scenic Streams
  - Stewardship Areas
  - Aerial Photos
  - Topographic Maps

**Refresh Map**

**Help:**

- A closed group, click to open.
- An open group, click to close.
- A map layer.
- A hidden group/layer, click to make visible.
- A visible group/layer, click to hide.
- A visible layer, but not at this scale.
- A partially visible group, click to make visible.
- An inactive layer, click to make active.
- The active layer.

Click map to Pan

Zoom Bar [Disclaimer](#)





# Use of State Owned Land Banks

## Use of state owned land banks for wetland mitigation:

- ❖ Coordinated with LA wildlife & fisheries (LDWF)
- ❖ LDWF opened land banks across the state
- ❖ COE in favor of keeping public monies in the public sector
- ❖ COE Vicksburg approved use of LDWF land bank in East Carroll Parish to mitigate two segments on US 165
- ❖ This provided DOTD an excellent resource for wetland mitigation on other projects



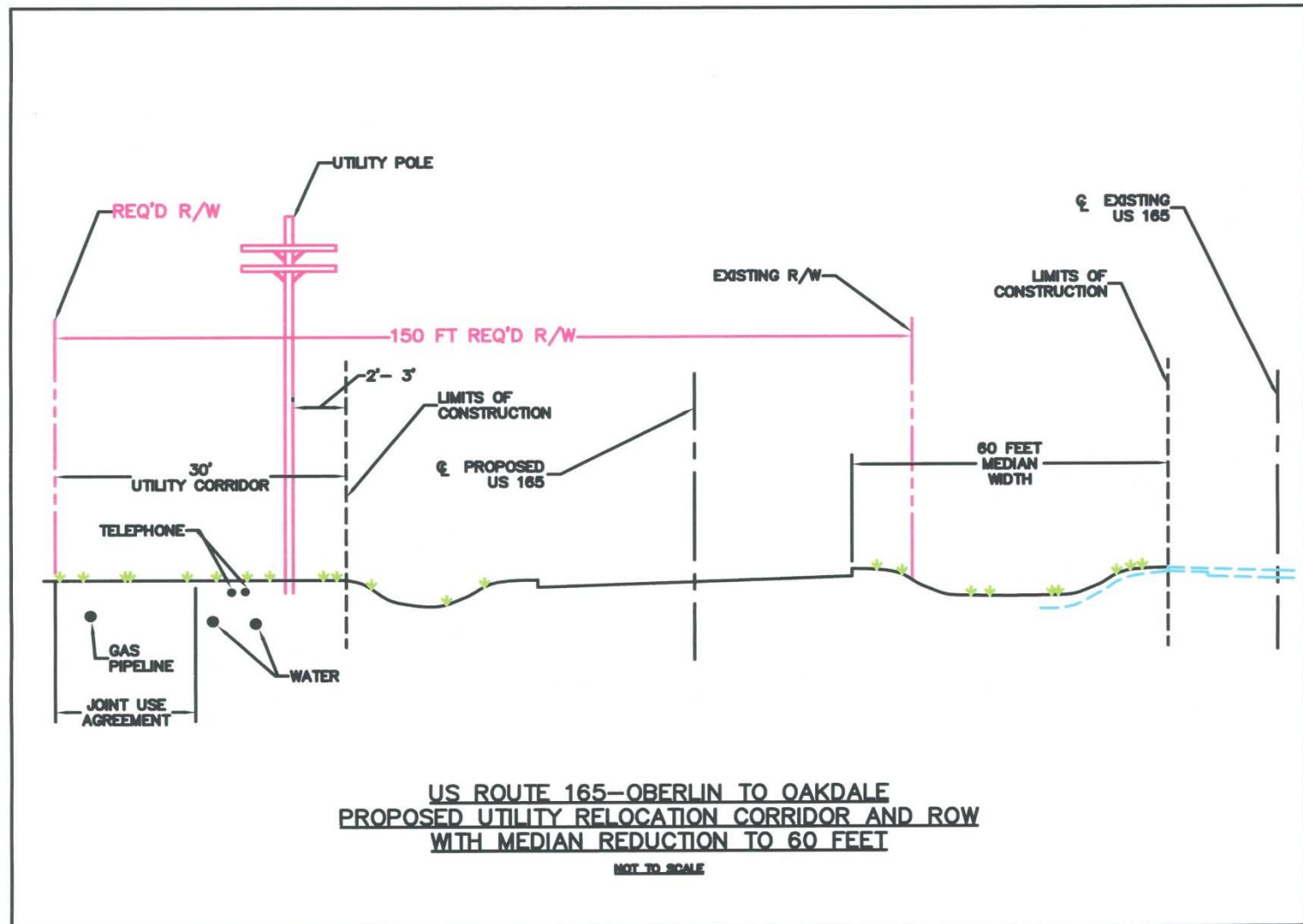
# Systems Approach - Project Development



# Utility Corridors

- ◆ Utilities need right-of-way too
- ◆ When utilities have prior rights DOTD ultimately pays for the utility right-of-way plus acquisition costs
- ◆ Utilities do not have quick take authority
- ◆ Early involvement incorporated utility corridor into design
- ◆ Coordinated with utilities in advance of executing agreements
- ◆ Organized utilities within the corridor
- ◆ Resulted in time and costs savings

# Utility Corridors



# Site Manager

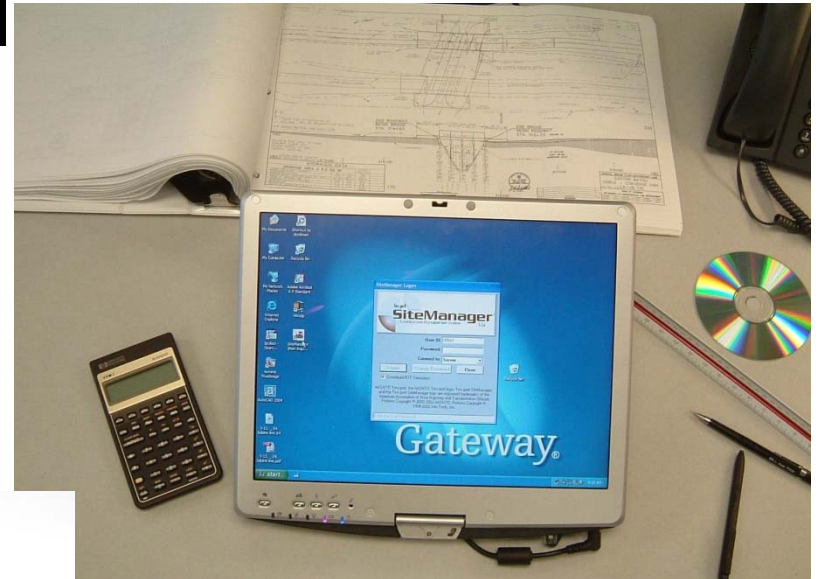
- ❖ Site Manager was just introduced
- ❖ LTM Implemented Site Manager on the entire TIMED Program
- ❖ Utilizing electronic record keeping
- ❖ An efficient construction management tool



The screenshot shows a web-based login interface for SiteManager. The window title is "SiteManager Logon". The main content area features the "Trns-port SiteManager" logo, which includes a stylized globe and the text "Construction Management system 3.2a". Below the logo are three input fields: "User ID:" with the value "d98a1", "Password:" (empty), and "Connect to:" with a dropdown menu set to "Server". There are three buttons: "Logon", "Change Password", and "Close". A checkbox labeled "Download RTF Templates" is checked. At the bottom, there is a text area with the following copyright notice: "AASHTO Trns-port, the AASHTO Trns-port logo, Trns-port SiteManager, and the Trns-port SiteManager logo are registered trademarks of the American Association of State Highway and Transportation Officials Portions Copyright © 2000-2002 AASHTO, Portions Copyright © 1994-2002 Info Tech, Inc." Below the text area is a text input field with the placeholder "Enter the User Password."

# Site Manager

- ❖ Data electronically entered at the source
- ❖ Utilized PC Write Tablets
  - ▲ In the Office
  - ▲ On the Project





# Reduce Construction Delays

- ❖ Calendar Day Contracts
- ❖ Prompt Issuance of NTP
- ❖ Reasonable Contract Times
- ❖ Required CPM Schedule from all Contractors
- ❖ Prompt Resolution of Issues – Performance Driven

# Lump Sum Bidding

- ❖ One Pilot Project Was a Success
- ❖ Reduced Paperwork
- ❖ Expedited Project Close Out







# SUMMARY

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- ❖ Innovative Solutions Helped Accelerate the TIMED Program and Reduce Costs
- ❖ “Lessons Learned” on the TIMED Program May Have Applications Elsewhere