ARKANSAS STATE HIGHWAY
AND
TRANSPORTATION DEPARTMENT

Dan Flowers
Director
Phone (501) 569-2000 Fax (501) 569-2400

P.O. Box 2261
Little Rock, Arkansas 72203-2261
WWW.ARKANSASHIGHWAYS.COM

September 22, 2008

Ms. Sandra Otto
Division Administrator
Federal Highway Administration
3128 Federal Office Building
Little Rock, Arkansas 72201

Re: AHTD Job Number 012091
FAP Number NH-2027(3)
Hwy. 48– Sheridan Bypass
NEPA Study
Dallas and Grant Counties
Tier Three Categorical Exclusion

Dear Ms. Otto:

The Environmental Division has reviewed the referenced project and it falls within the definition of a Tier 3 Categorical Exclusion as defined by the AHTD/FHWA Memorandum of Agreement on the processing of Categorical Exclusions. The following information is included for your review and, if acceptable, approval as the environmental documentation for this project.

The purpose of this project is to widen highway 167 from Highway 48 to the future location of the Sheridan Bypass and replace seven bridges. Total length of this project is 11.9 miles (19.2 kilometers).

The existing Highway 167 consists of two 12-foot (3.6-meter) wide travel lanes with eight-foot (2.4 meter) wide shoulders. The existing right of way along the route is

130 feet (40 meters). The existing bridge structure locations and descriptions are listed in Table 1.

Table 1
Existing Bridge Information

Bridge No.	Sufficiency Rating	Stream	Existing Structure
1356	NQ 60.1	Saline River Relief	28’ x 166’ (8.5 m x 50.6 m) reinforced concrete deck girders (RCDG) supported by concrete pile bents
1355	NQ 60.1	Saline River Relief	28’ x 265’ (8.5 m x 80.7 m) RCDG supported by concrete pile bents
1354	NQ 60.1	Saline River Relief	28’ x 199.’ (8.5 m x 60.6 m) RCDG supported by concrete pile bents
1350	NQ 62.1	Gamble Creek	28’ x 481’ (8.3m x 146.6 m) RCDG supported by concrete pile bents
1351	NQ 62.1	Gamble Creek Relief	28’ x 151 (8.5 m x 46.0 m) RCDG supported by concrete pile bents
1352	NQ 70.1	Gamble Creek	28’ x 91’ (8.5 m x 27.7m) RCDG supported by concrete pile bents
1353	NQ 58.9	Gamble Creek	28’ x 91’ (8.5 m x 27.7m) RCDG supported by concrete pile bents

The proposed improvements will consist of four 12-foot (3.6-meter) wide paved travel lanes, an 11-foot (3.3-meter) continuous turn lane and eight foot (2.4 meter) wide shoulders. The new right of way will vary between 140’ to 260’ (42.6 m to 79.2 m). A description and location of the proposed bridge structures are listed in Table 2. Design data for this project is found in Table 3.

There are no endangered species, cultural resources or environmental justice issues associated with this project. Approximately 35 (14 hectares) of prime farmland will be acquired for right of way. Form NRCS-CPA-106, the Farmland Conversion Impact Rating, is enclosed. Field inspections found evidence of five possible underground storage tanks sites. Underground storage tanks will be removed in accordance with Arkansas Department of Environmental Quality regulations. One business and one residential owner will be relocated as a result of this project. Public law 91-646, Uniform Relocation Assistance Act of 1970, as amended, will apply. A public involvement

meeting was held for this project on June 24, 2008; a synopsis of the meeting is enclosed. A noise analysis is also enclosed.

Table 2
Proposed Bridge Information

Bridge No.	Stream	Proposed Structure
1356	Saline River Relief	75’ x 182’ (22.8 m x 55.5 m) concrete girders on concrete pile bents
1355	Saline River Relief	75’ x 302’ (22.8 m x 92.0 m) concrete girders on concrete pile bents
1354	Saline River Relief	75’ x 242’ (22.8 m x 73.8 m) concrete girders on concrete pile bents
1350	Gamble Creek	75’ x 542’ (22.8 m x 165.2 m) concrete girders on concrete pile bents
1351	Gamble Creek Relief	75’ x 180’ (22.8 m x 54.9 m) concrete girders on concrete pile bents
1352	Gamble Creek	75’ x 111’ (22.8 m x 33.8 m) concrete girders on concrete pile bents
1353	Gamble Creek	75’ x 111’ (22.8 m x 33.8 m) concrete girders on concrete pile bents

Table 3
Design Information

Design Year	Average Daily Traffic	Percent Trucks	Design Speed
2009	5,300	22	60 mph (100 kmph)
2029	7,000	22	60 mph (100 kmph)

Construction of this project will impact approximately 39 acres(15.7) of wetlands and have multiple waters of the United States stream crossings. The wetland impacts are unavoidable and will be mitigated at the Middle Ouachita River Mitigation Bank.

Construction should be allowed under the terms of an Individual Section 404 Permit. A Wetlands Assessment is enclosed.

If you have any questions, please contact the Environmental Division at 569-2281.

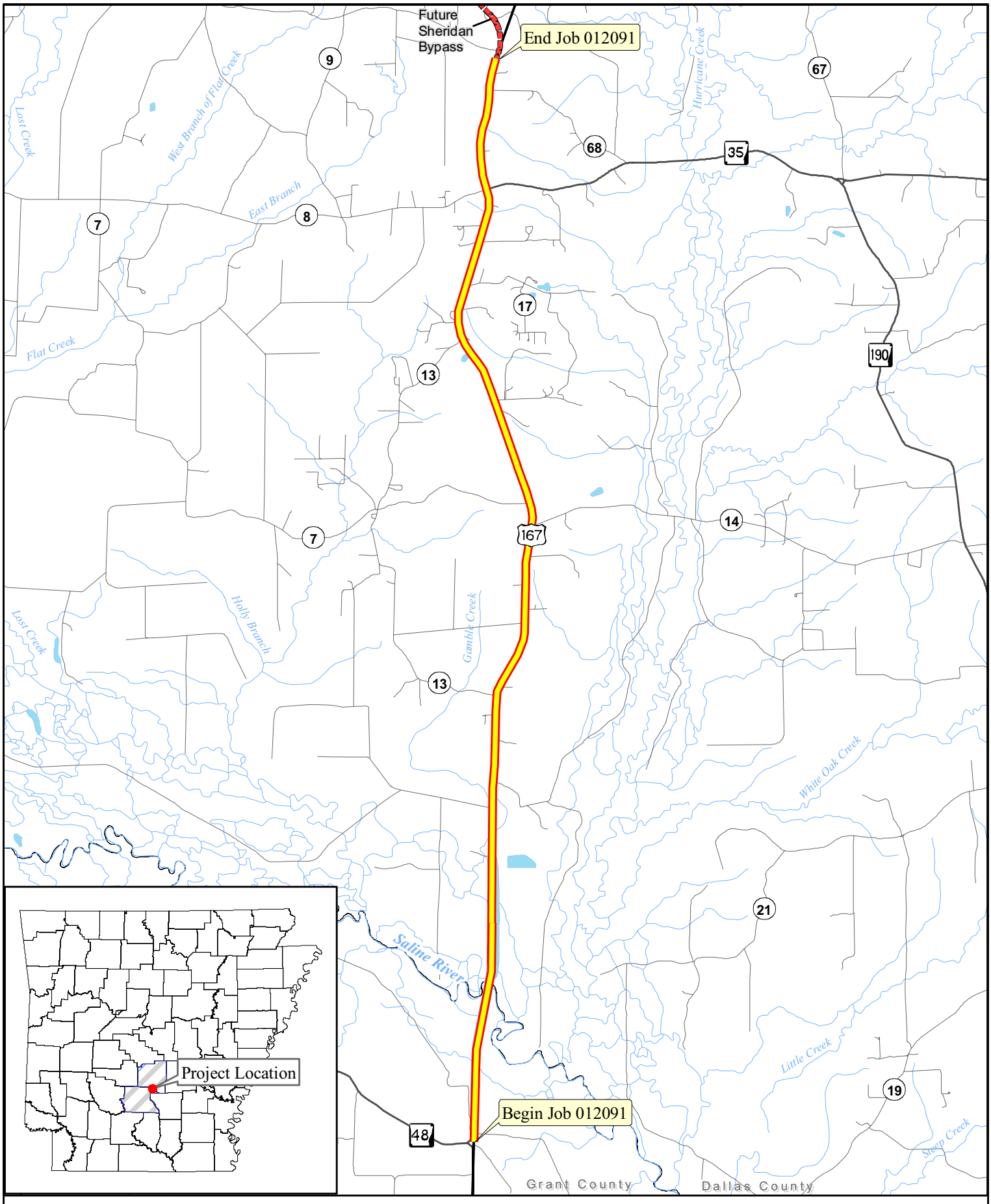
APPROVED
Environmental Specialist
Federal Highway Administration
Date: 9/26/08

Sincerely,

Lynn P. Malbrough
Division Head
Environmental Division

Enclosures
LPM:JB:trb

c: Programs and Contracts
Right of Way
Roadway Design
District Two
District Seven



0 0.25 0.5 1 Mile

N

AHTD-Environmental GIS-Perry
July 24, 2008

Job 012091
Hwy. 48 - Sheridan Bypass NEPA Study
Dallas and Grant Counties

Project Location

The Department of
Arkansas Heritage

Mike Beebe
Governor

Cathie Matthews
Director

Arkansas Arts Council

•

Arkansas Natural Heritage Commission

•

Delta Cultural Center

•

Historic Arkansas Museum

•

Mosaic Templars Cultural Center

•

Old State House Museum

Arkansas Historic Preservation Program

1500 Tower Building
323 Center Street
Little Rock, AR 72201
(501) 324-9880
fax: (501) 324-9184
tdd: (501) 324-9811
e-mail:
info@arkansaspreservation.org
website:
www.arkansaspreservation.com

An Equal Opportunity Employer

September 10, 2008

Mr. Lynn P. Malbrough
Division Head
Environmental Division
Arkansas State Highway and Transportation Department
P.O. Box 2261
Little Rock, Arkansas 72203-2261

RE: Multi County – Sheridan
Report Entitled "A Cultural Resources Survey of AHTD Job Number 012091, Hwy. 48 – Sheridan Bypass, State Highway 167, Grant and Dallas Counties, Arkansas"
AHPP Project Number 66379

Dear Mr. Malbrough:

My staff has reviewed the referenced cultural resources survey report. It is thorough, comprehensive, and well written. We also concur with the findings and conclusions presented therein. With the stipulation that Structure M (a property that is eligible for inclusion in the National Register of Historic Places) be avoided and protected and that archeological monitoring be done during construction, we have no objection to the proposed undertaking.

Thank you for your interest and concern for the cultural heritage of Arkansas. If you have any questions, please contact George McCluskey of my staff at (501) 324-9880.

Sincerely,

Frances McSwain

Frances McSwain
Deputy State Historic Preservation Officer

cc: Federal Highway Administration
Quapaw Tribe of Oklahoma
Tunica-Biloxi Tribe of Louisiana, Inc.

U.S. DEPARTMENT OF AGRICULTURE
Natural Resources Conservation Service

NRCS-CPA-106
(Rev. 1-91)

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

PART I *(To be completed by Federal Agency)* 012091	3. Date of Land Evaluation Request 7/30/08	Sheet 1 of ____
1. Name of Project Hwy 48 - Sheridan Bypass	5. Federal Agency Involved FHWA	
2. Type of Project Hwy Widening	6. County and State Dallas Grant	
PART II *(To be completed by NRCS)*	1. Date Request Received by NRCS	2. Person Completing Form
3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES ☐ NO ☐	4. Acres Irrigated	Average Farm Size
5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: %	7. Amount of Farmland As Defined in FPPA Acres: %
8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS

PART III *(To be completed by Federal Agency)*	Alternative Corridor For Segment ____			
	Corridor A	Corridor B	Corridor C	Corridor D
A. Total Acres To Be Converted Directly				
B. Total Acres To Be Converted Indirectly, Or To Receive Services				
C. Total Acres In Corridor	0	0	0	0
PART IV *(To be completed by NRCS) Land Evaluation Information*				
A. Total Acres Prime And Unique Farmland	34.92			
B. Total Acres Statewide And Local Important Farmland				
C. Percentage Of Farmland in County Or Local Govt. Unit To Be Converted				
D. Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value				
PART V *(To be completed by NRCS) Land Evaluation Information Criterion Relative value of Farmland to Be Serviced or Converted (Scale of 0 - 100 Points)*				
PART VI *(To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))* — Maximum Points				
1. Area In Nonurban Use — 15	15			
2. Perimeter In Nonurban Use — 10	10			
3. Percent Of Corridor Being Farmed — 20	10			
4. Protection Provided By State And Local Government — 20	0			
5. Size of Present Farm Unit Compared To Average — 10	0			
6. Creation Of Nonfarmable Farmland — 25	0			
7. Availability Of Farm Support Services — 5	5			
8. On-Farm Investments — 20	0			
9. Effects Of Conversion On Farm Support Services — 25	0			
10. Compatibility With Existing Agricultural Use — 10	0			
TOTAL CORRIDOR ASSESSMENT POINTS — 160	0 40	0	0	0
PART VII *(To be completed by Federal Agency)*				
Relative Value Of Farmland (From Part V) — 100	100			
Total Corridor Assessment (From Part VI above or a local site assessment) — 160	0 40	0	0	0
TOTAL POINTS *(Total of above 2 lines)* — 260	0 140	0	0	0

1. Corridor Selected:	2. Total Acres of Farmlands to be Converted by Project:	3. Date Of Selection:	4. Was A Local Site Assessment Used?
Existing Loc.	34.92 Acres 14.13 Hectares	7/30/08	YES ☐ NO ☐

5. Reason For Selection:

Signature of Person Completing this Part: [signature] DATE 7/30/08

NOTE: Complete a form for each segment with more than one Alternate Corridor

PUBLIC INVOLVEMENT MEETING SYNOPSIS

Job Number 012091
Hwy. 48-Sheridian bypass NEPA Study (Hwy. 167)
Dallas and Grant Counties
June 24, 2008

An open forum public involvement meeting for the proposed Highway 167 improvement was held at the Hope Pentecostal Church in Sheridan, Arkansas from 4:00 p.m.-7:00 pm on June 24, 2008. Media news releases, flyers, and radio public service announcements were utilized to inform the general public of the meeting. Special efforts to involve minorities and the public in the meeting included the following:

- Displays advertisement placed in the Sheridan Headlight on Wednesday, June 11, 2008 and Wednesday, June 18, 2008.
- Distribution of flyers in the area.
- Outreach to minority minister letters.

The following information was available for inspection and comments.

- Displays including aerial photographs at a scale of 1 inch equals 1,500 feet, that illustrated the project location.
- Preliminary plans at a scale of one-inch equals ten feet.

Handouts for the public included a comment sheet and a small-scale map illustrating the project alternatives, which was identical to the aerial photograph display. Copies of the handouts are attached.

Table 1 describes the results of the public participation at the meeting.

TABLE 1

Public Participation	Totals
Attendance at meeting (including AHTD staff)	65
Comments received at meeting	6
Additional comments received after meeting	24
Total comments received	30

AHTD staff reviewed all comments received and evaluated their contents. The summary of comments listed below reflects the personal perception or opinion of the person or organization making the statement. The sequencing of the comments is

random and is not intended to reflect importance or numerical values. Some of the comments were combined and/or paraphrased to simplify the synopsis process.

An analysis of the responses received as a result of the public survey is shown in Table 2.

Table 2

Survey Results	Totals
Widening of Highway 167 needed	21
Widening of Highway 167 not needed	8

The following is a listing of comments concerning issues associated with this project:

- Eight individuals thought the curve south of Highway 35 at Crossroads should be straightened. Three individuals in this area were concerned about their truck repair business; about the ability to get trucks and trailers in and out of their businesses safely and having enough remaining property to maneuver the trucks. They requested the curve be straightened by taking open land to the west, thus minimizing the impacts to their property.
- Nine individuals were concerned that too much frontage/land would be taken. Four individuals suggested shifting the ROW to the west side to avoid greater impacts to businesses and homes.
- One individual thought a signal was needed at Highway 35/167 at Crossroads.
- Two individuals thought there was not enough traffic to warrant four lanes.
- One individual was concerned about his cattle stock pond.
- One individual was concerned about the cost.
- One individual was concerned about water well on east side of road.
- One individual said archeological and civil war artifacts could be found up and down the highway.
- One individual said there was asbestos in old Wilson Store.
- One individual was concerned about his septic tank.

Attachments: Blank comment form
Small-scale project location handout

JB:

RJ RJ
BP BP

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT (AHTD)

CITIZEN COMMENT FORM

AHTD JOB NUMBER 012091
HWY. 48- SHERIDAN BYPASS NEPA STUDY (HWY. 167)
DALLAS & GRANT COUNTIES

LOCATION:

HOPE PENTECOSTAL CHURCH
19 GRANT ROAD
SHERIDAN, AR
4:00 – 7:00 P.M.
TUESDAY, JUNE 24, 2008

Make your comments on this form and leave it with AHTD personnel at the meeting or mail it within 15 days to: Arkansas State Highway and Transportation Department, Environmental Division, Post Office Box 2261, Little Rock, Arkansas 72203-2261.

Yes ☐ No ☐ Do you feel there is a need for the proposed widening of Highway 167 from Highway 48 to the Sheridan Bypass? Comment (optional)_____

_____

_____

_____

☐ ☐ Do you know of any historical sites, family cemeteries, or archaeological sites in the project area? Please note and discuss with staff. _____

_____

_____

☐ ☐ Do you know of any environmental constraints, such as endangered species, hazardous waste sites, existing or former landfills, or parks and public lands in the vicinity of the project? Please note and discuss with AHTD staff. _____

_____

_____

☐ ☐ Do you feel that the proposed widening of Hwy. 167 will have any impacts (☐ Beneficial or ☐ Adverse) on your property and/or community (economic, environmental, social, etc.)? Please explain. ____

_____

_____

(Continued on back)

Yes No

☐ ☐ Do you have a suggestion that would make this proposed project better serve the needs of the community? _____

_____

_____

_____

_____

It is often necessary for the AHTD to contact property owners along potential routes. If you are a property owner along or adjacent to the route under consideration, please provide information below. Thank you.

Name :_____(*Please Print*)

Address: _____ Phone: (_____) _____--_____

_____

_____

E-mail:_____

Please make additional comments here._____

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End Job
012091

Begin Job
012091

Saline River

Cleveland County

Dallas County

0 1,250 2,500 5,000
Feet

AHTD Environmental GIS - Strawn
Map Date: June 17, 2008
Meeting Date: June 24, 2008
Public Involvement Handout

Job 012091
Hwy. 48 - Sheridan Bypass
NEPA Study
Dallas, Grant County

Preliminary
Subject to Revision

Project Location

Photography Date: January 15th - March 31th, 2006

Notes:

Noise Analysis

No. Millerville-Sheridan Bypass (S)

AHTD Job Number 012091

Grant County

Noise predictions have been made for this project utilizing the Federal Highway Administration's Traffic Noise Model 2.5 procedures, existing and proposed roadway information, existing traffic data and the traffic projections for the design year of 2025. The noise investigation reveals that the 67 dBA Leq design year noise abatement criteria (NAC) will occur 157 feet (48 meters) from the centerline of the proposed project. The proposed cross-section consists of four 12-foot (3.6 meter) wide travel lanes and an 11-foot (3.3 meter) wide continuous turn- lane with 8-foot (2.4 meter) wide shoulders. Forty sensitive receptors located along the proposed project location are predicted to experience noise levels which will approach or exceed 67 dBA during the design year. The term "approach" is considered to be one dBA less than the NAC.

Any noise abatement efforts using barrier walls or berms are not warranted for this project. This is due to the low density of development and to the need to provide direct access to adjacent properties. In order to provide direct access to adjacent properties, breaks in the barrier walls or berms would be required. These necessary highway access breaks would render any noise barrier ineffective.

To avoid noise levels in excess of design levels, any future receptors should be located a minimum of 170 feet (52 meters) from the centerline of the proposed project location. This distance should be used as a general guide and not a specific rule, since the noise will vary depending upon the roadway grades and other noise contributions.

Any excessive project noise, due to construction operations, should be of short duration and have a minimum adverse effect on land uses or activities associated with this project area.

In compliance with Federal guidelines, a copy of this analysis will be transmitted to the Southeast Arkansas Economic Development District for possible use in present and future land use planning.

WETLANDS ASSESSMENT

PURSUANT TO SECTION 404

CLEAN WATER ACT

AHTD JOB NUMBER 012091
HWY. 48 - SHERIDAN BYPASS NEPA STUDY (HWY. 167)
DALLAS and GRANT COUNTIES

This analysis finds that there is no practicable alternative to construction in wetlands adjacent to Highway 167 in Dallas and Grant Counties. This finding is in accordance with Executive Orders 11990 on Protection of Wetlands and 11988 on Management of Floodplains.

Description of the Project

Refer to the Categorical Exclusion for the description of the project.

Project Area

This project is located in the West Gulf Coastal Plain (Coastal Plain) Natural Division (State of Arkansas 1974) and the Gulf Coastal Plain Ecoregion (State of Arkansas 1987). The impact areas along the project are open water/vegetated borrow ditches, bottomland hardwood wetlands, and herbaceous wetlands. The bottomland hardwood wetlands are primarily associated with river and/or stream floodplains. The majority of impacts are in the open water/vegetated borrow ditches. See attached wetland location map.

Description of Wetlands

Wetlands affected by this project are open water/vegetated borrow ditches, bottomland hardwood wetlands, and herbaceous wetlands. Dominant vegetation in the borrow ditches includes button bush (*Cephalanthus occidentalis*), black willow (*Salix nigra*), bald cypress (*Taxodium distichum*), and smartweed (*Polygonum spp.*). Figure 1 shows typical photographs of the vegetated borrow ditch wetlands.

The dominant vegetation in the bottomland hardwood wetlands includes bald cypress, willow oak (*Quercus phellos*), water oak (*Quercus nigra*), overcup oak (*Quercus lyrata*), sweet gum (*Liquidambar styracilflua*), green ash (*Frankinus pennsylvanica*), and American elm (*Ulmus americana*). Figure 2 shows typical photographs of the bottomland hardwood wetlands.

The dominant vegetation in the herbaceous wetlands includes soft rush (*Juncus spp.*) and various sedges (*Carex spp.*). Figure 3 shows a typical photograph of the herbaceous wetlands.

Alternatives Considered

The Do-Nothing Alternative would not alleviate the traffic volume problems associated with Highway 167. The widening will be on existing alignment. Wetlands are on both sides of Highway 167 in the project area. No other alignment alternatives were considered. New location alignments would have greater impacts to the surrounding wetlands and streams.

Figure 1a. Typical Photograph of Vegetated Borrow Ditch Wetlands.

Figure 1b. Typical Photograph of Vegetated Borrow Ditch Wetlands.

Figure 2a. Typical Photograph of Forested Wetlands Behind Borrow Ditch.


Figure 2b. Typical Photograph of Forested Wetlands.

Figure 3. Typical Photograph of Herbaceous Wetlands.

Impacts

Construction of this project will permanently impact approximately 45 acres (18 hectares) of wetlands. The majority of wetland impacts will be to vegetated and open water borrow ditches. There will be approximately 40 acres (16 hectares) of wetland impacts to vegetated/open water borrow ditch wetlands. There will be approximately 2 acres (1 hectare) of wetland impacts to bottomland hardwood wetlands. There will be approximately 3 acres (1 hectare) of wetland impacts to herbaceous wetlands.

Water quality will be temporarily impacted during construction due to the placement of permanent and temporary fill and excavation during channel improvements. Water quality will not be permanently impacted by construction of this project, and it is expected to return to normal levels immediately following completion of the project.

Mitigation

Mitigation for unavoidable wetlands impacts due to the proposed project is offered at the Middle Ouachita River Mitigation Bank (MORMB). Mitigation credits were calculated on impacting 40 acres of vegetated borrow ditch wetlands, 2 acres of bottomland hardwood wetlands, and 3 acres of herbaceous wetlands. Mitigation credits were calculated using the Charleston Method. Total mitigation credits debited from the MORMB will be at a ratio of 2.5:1 acres.

Conclusion

Construction in wetlands discussed in this document is unavoidable. Construction of the proposed project should not permanently impact the functional integrity of the wetland system in the project area. Construction should be allowed under the terms of an Individual Permit.

LITERATURE CITED

State of Arkansas
1974 Arkansas Natural Area Plan. Arkansas Department of Planning. Little Rock, Arkansas. 247p.

State of Arkansas
1985 Physical, Chemical, and Biological Characteristics of Least-Disturbed Reference Streams in Arkansas Ecoregions, Volume II: Data Analysis. Arkansas Department of Pollution Control and Ecology. 148p.

Job 012091
Calculating Required Mitigation Credits (Debits) – Middle Ouachita River

Definitions

Cumulative impact factor, $\sum AA_i$ stands for the sum of the acres of adverse impacts to aquatic areas for the overall project. When computing this factor, round to the nearest tenth decimal place using even number rounding. Thus 0.01 and 0.050 are rounded down to give a value of zero while 0.051 and 0.09 are rounded up to give 0.1 as the value for the cumulative impact factor. The cumulative impact factor for the overall project must be used in each area column on the Required Mitigation Credits Worksheet.

1986 **Duration** means the length of time adverse impacts will last (in years).

Dominant impact factors include fill, impound, drain, dredge, clear, and shade.

Existing Condition means the degree of disturbance.

Fully functional means the system type is functionally naturally. Examples: pristine wetlands or riverine habitats, wetlands with no effective drainage.

Slightly impaired means site disturbances have occurred but functional recovery could be reversed through natural processes, such as clear-cut wetlands, utility corridors, wetlands with ditches that impair but don't eliminate wetland hydrology.

Impaired means functional recovery from disturbance is unlikely to occur naturally. Bedded pine monoculture, severely fragmented areas, channelized streams. Vegetated ditches are here included.

Very impaired means full recovery would require major restoration effort. Filled areas, drained wetlands.

Lost Type categories are based on the suite of functions that they perform.

Type A includes:	Riverine systems including headwaters and riparian zones
	Bottomland hardwoods
Type B includes:	Seeps and bogs
	Savannahs and flatwoods
	Depressions
	Pocosins and bays
Type C includes:	Man-made lakes and ponds
	Vegetated lake littoral
	Impoundments

Other habitat types need to be evaluated and assigned a category ranking. Farmed wetlands and vegetated ditches are here defined as Type C. Scrub-Shrub wetlands are here defined as Type B.

Priority Category means designated areas of aquatic systems that provide functions of recognized importance because of their inherent functions, their position in the landscape, or their rarity.

Primary priority areas provide important contributions to biodiversity or high levels of functions contributing to landscape or human values. Examples include Wild and

Scenic Rivers, Heritage or TNC natural areas, national wildlife refuges, old growth communities, etc.

Secondary priority areas include bay forest, high elevation seep, pond cypress pond, upland depression swamp forest, etc.

Tertiary priority areas include cypress-tupelo swamps, bottomland hardwood, pine flatwoods, etc.

Calculation of Debits

ADVERSE IMPACT FACTORS FOR WETLANDS AND OTHER WATERS OF THE U.S. EXCLUDING STREAMS

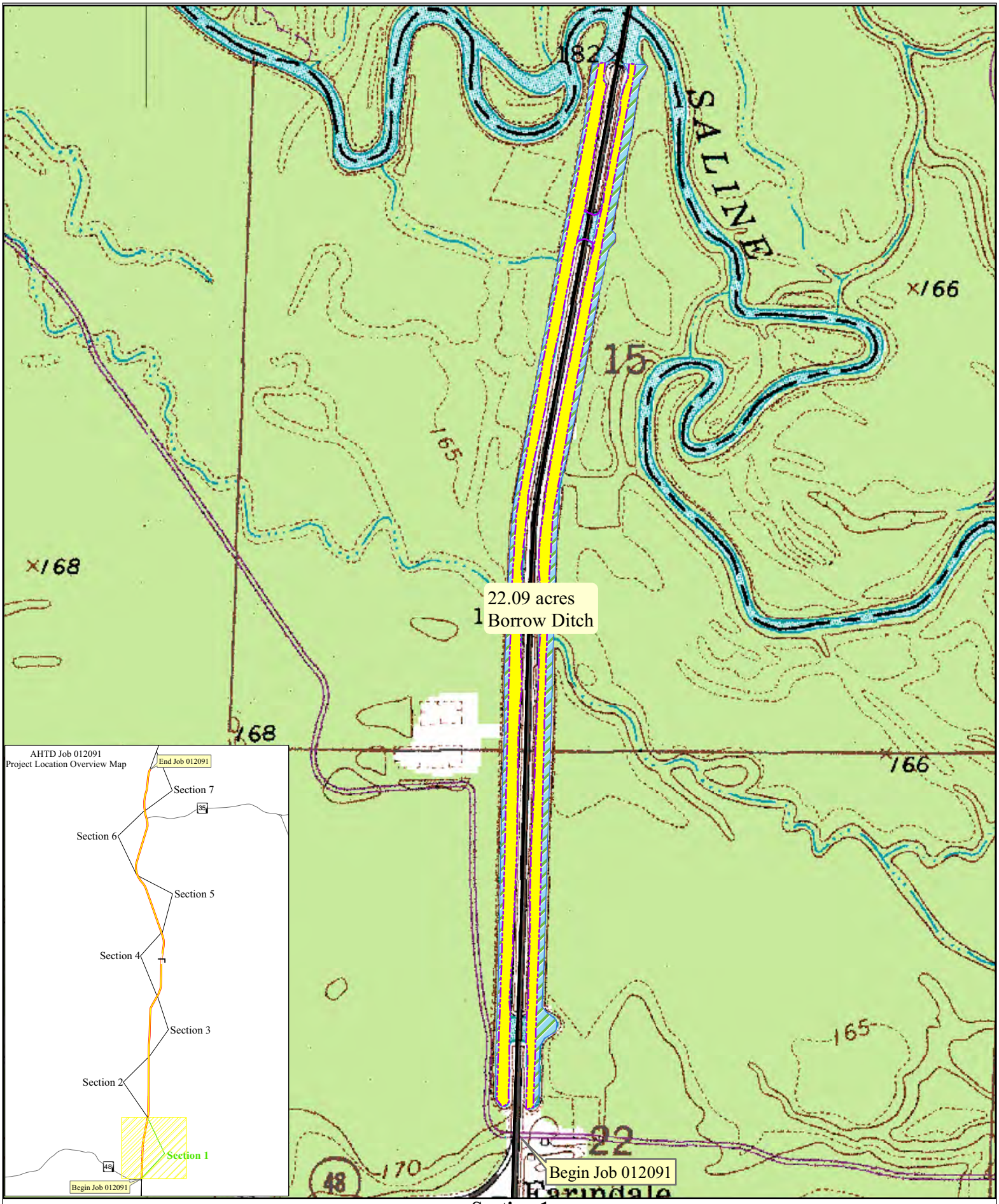
FACTORS	OPTIONS					
Lost Type	Type C 0.2		Type B 2.0		Type A 3.0	
Priority Category	Tertiary 0.5		Secondary 1.5		Primary 2.0	
Existing Condition	Very Impaired 0.1	Impaired 1.0		Slightly Impaired 2.0		Fully Functional 2.5
Duration	Seasonal 0.1	0 to 1 0.2	1 to 3 0.5	3 to 5 1.0	5 to 10 1.5	Over 10 2.0
Dominant Impact	Shade 0.2	Clear 1.0	Dredge 1.5	Drain 2.0	Impound 2.5	Fill 3.0
Cumulative Impact	$0.05 \times \sum A_i$					

REQUIRED MITIGATION CREDITS WORKSHEET

Factor	**Area 1 Vegetated Borrow Ditch**	**Area 2 Bottomland Hardwoods**	**Area 3 Herbaceous Wetland**
Lost Type	**Type C 0.2**	**Type A 3.0**	**Type C 0.2**
Priority Category	**Tertiary 0.5**	**Tertiary 0.5**	**Tertiary 0.5**
Existing Condition	**Impaired 1.0**	**Slightly Impaired 2.0**	**Impaired 1.0**
Duration	**Over 10 2.0**	**Over 10 2.0**	**Over 10 2.0**
Dominant Impact	**Fill 3.0**	**Fill 3.0**	**Fill 3.0**
Cumulative Impact	**2.2**	**2.2**	**2.2**
Sum of r Factors	$R_1 = 8.9$	$R_2 = 12.7$	$R_3 = 8.9$
Impacted Area	$A_1 = 40$	$A_2 = 2$	$A_3 = 3$
R x A=	356.0	25.4	26.7

Total Required Credits = $\sum$ (R x AA) = 408.1

The average credits per acre in the Middle Ouachita River Mitigation Bank is 3.6. The equivalent acreage ratio (113.4 acres of mitigation/45 acres impacted) is 2.5:1.



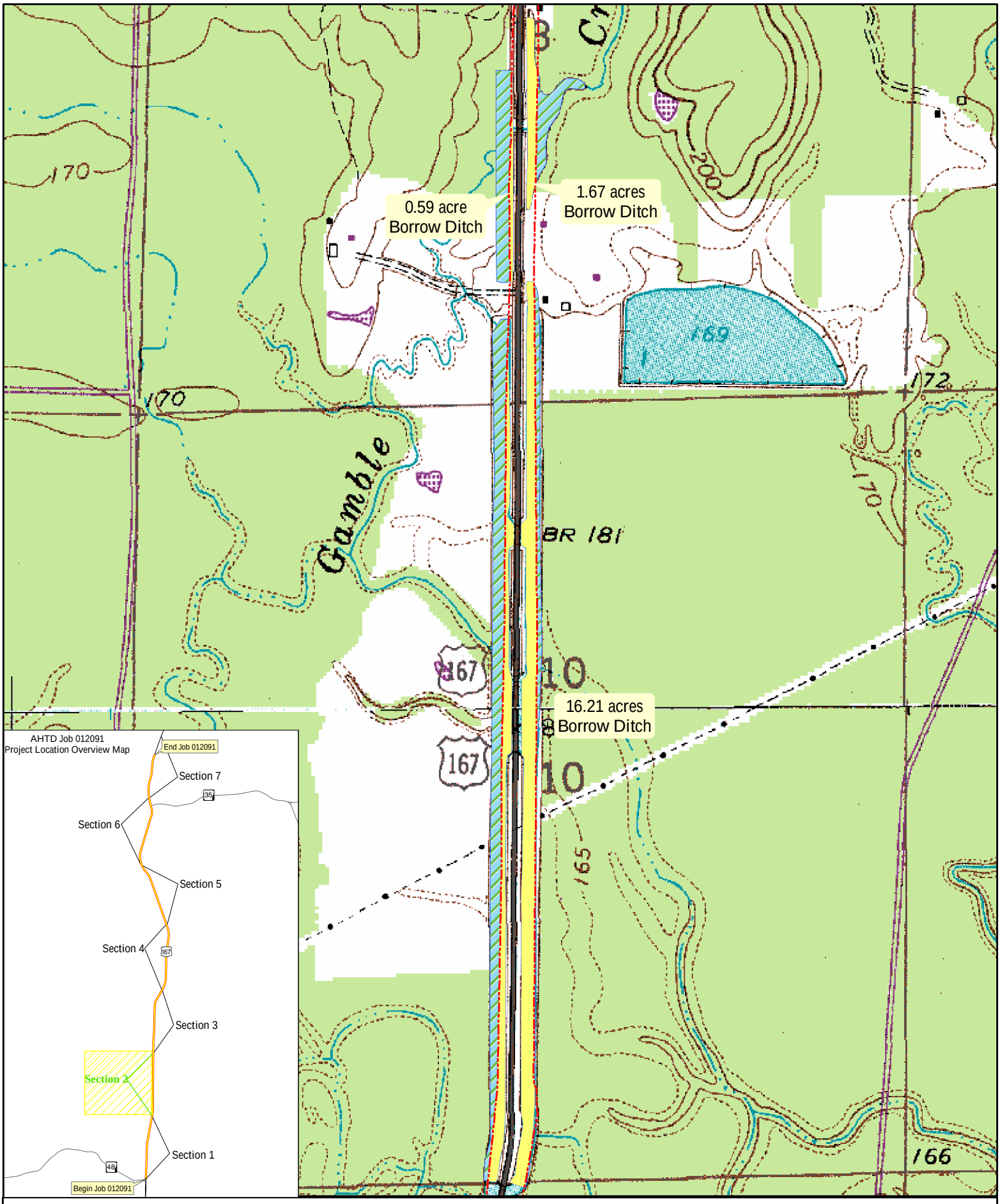
Section 1
Job 012091
Hwy. 48-Sheridan Bypass
NEPA Study
Dallas and Grant Counties

Approximate Scale: 1:10,000
0 200 400 800 Feet
N

Job 012091
AHTD-Environmental GIS-Perry
May 12, 2008

Impacted Wetlands
Wetlands
Estimated Construction Limits

Bunn 1984 USGS Topographic Map



N

Approximate Scale: 1:10,000

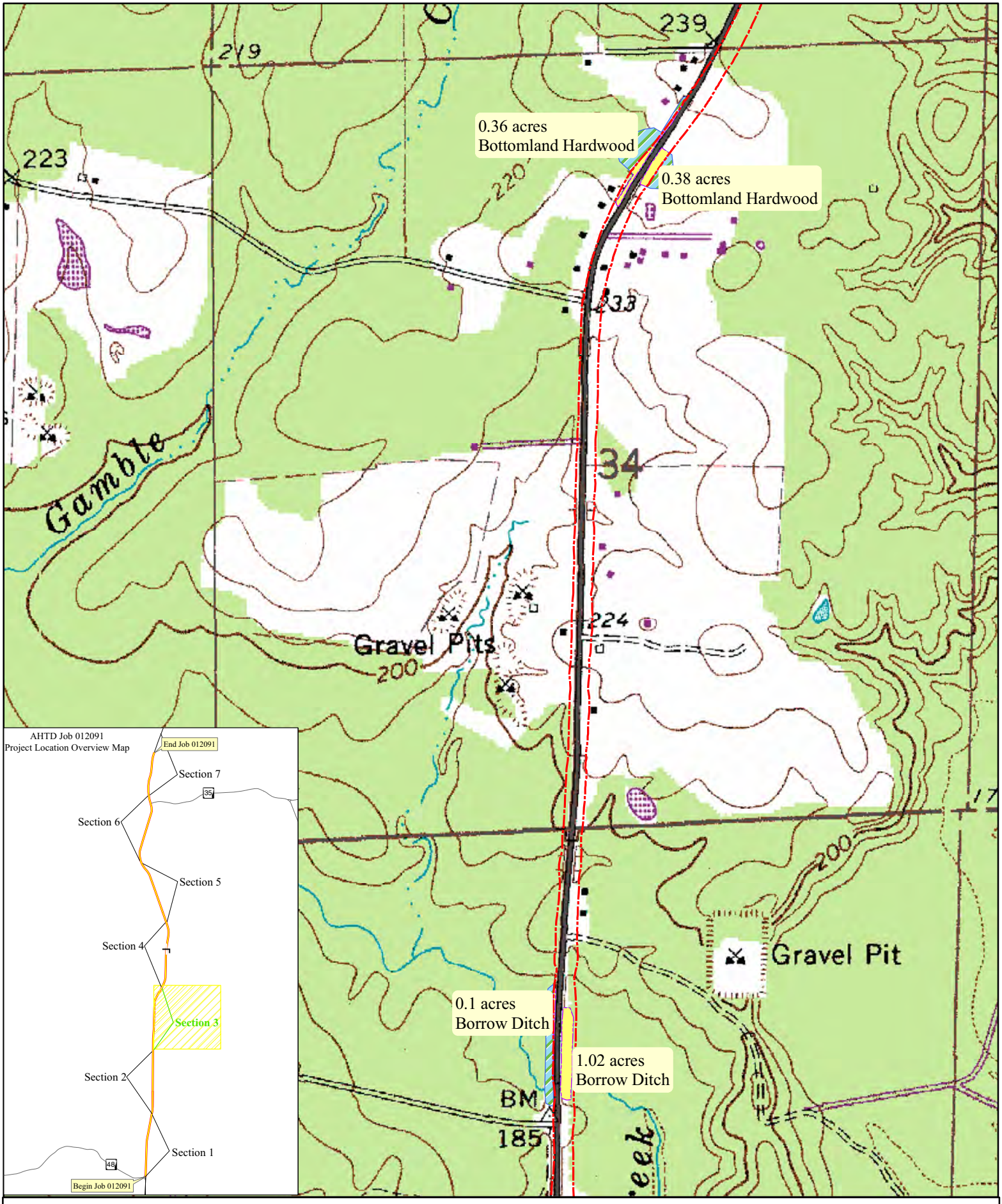
0 250 500 1,000 Feet

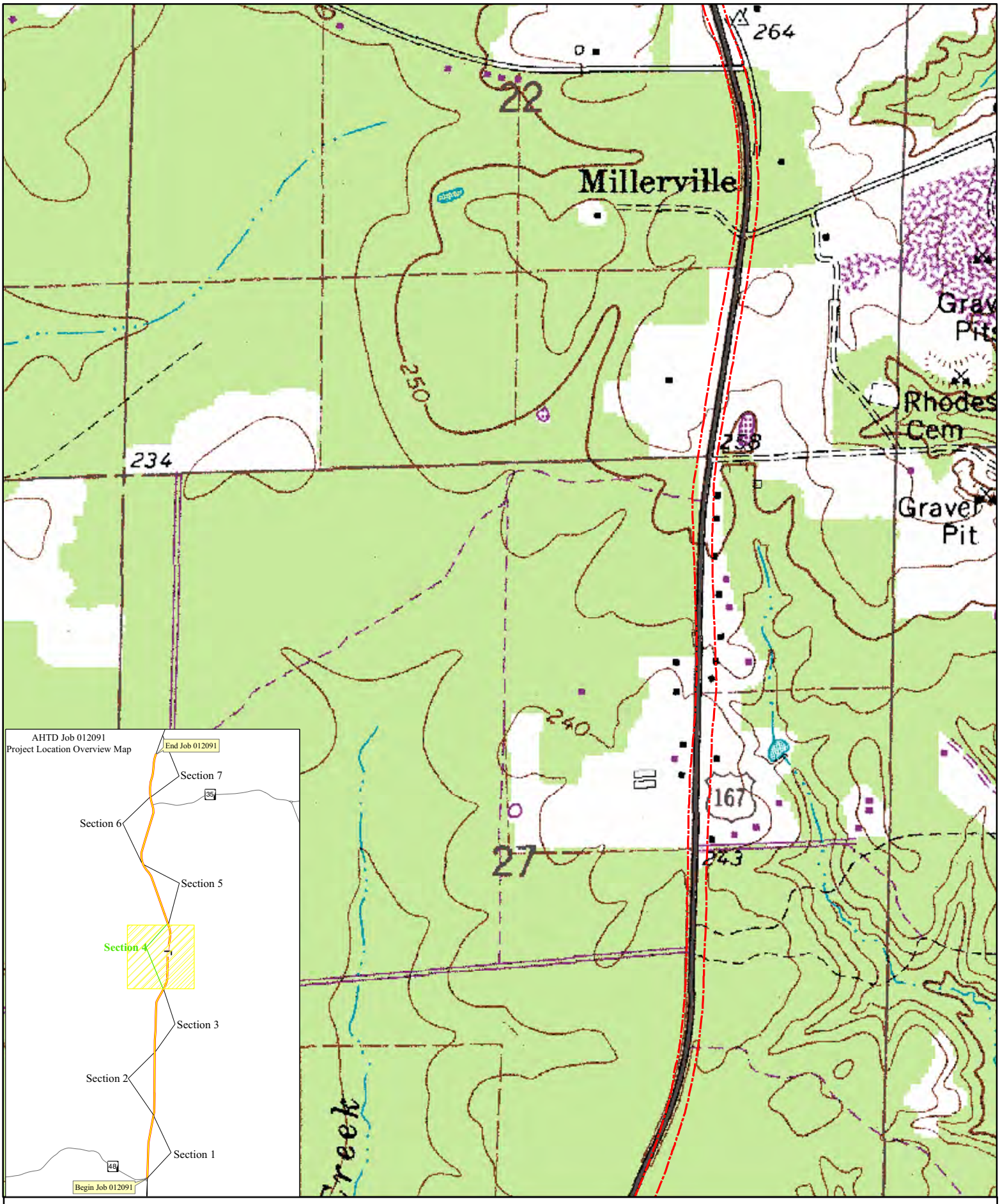
Job 012091
AHTD-Environmental GIS-Perry
June 23, 2008

Section 2

Impacted Wetlands
Wetlands
Construction Limits

Millerville 1984 USGS Topographic Map
Bunn 1984 USGS Topographic Map


0.36 acres
Bottomland Hardwood
0.38 acres
Bottomland Hardwood
0.1 acres
Borrow Ditch
1.02 acres
Borrow Ditch
Gravel Pits
Gravel Pit
Gamble
239
219
223
220
34
224
200
185
BM
AHTD Job 012091
Project Location Overview Map
End Job 012091
Section 7
Section 6
Section 5
Section 4
Section 3
Section 2
Section 1
Begin Job 012091
Approximate Scale: 1:10,000
N
0 250 500 1,000
Feet
Job 012091
AHTD-Environmental GIS-Perry
May 12, 2008
Section 3
Impacted Wetlands
Wetlands
Construction Limits
Millerville 1984 USGS Topographic Map



N

Approximate Scale: 1:10,000

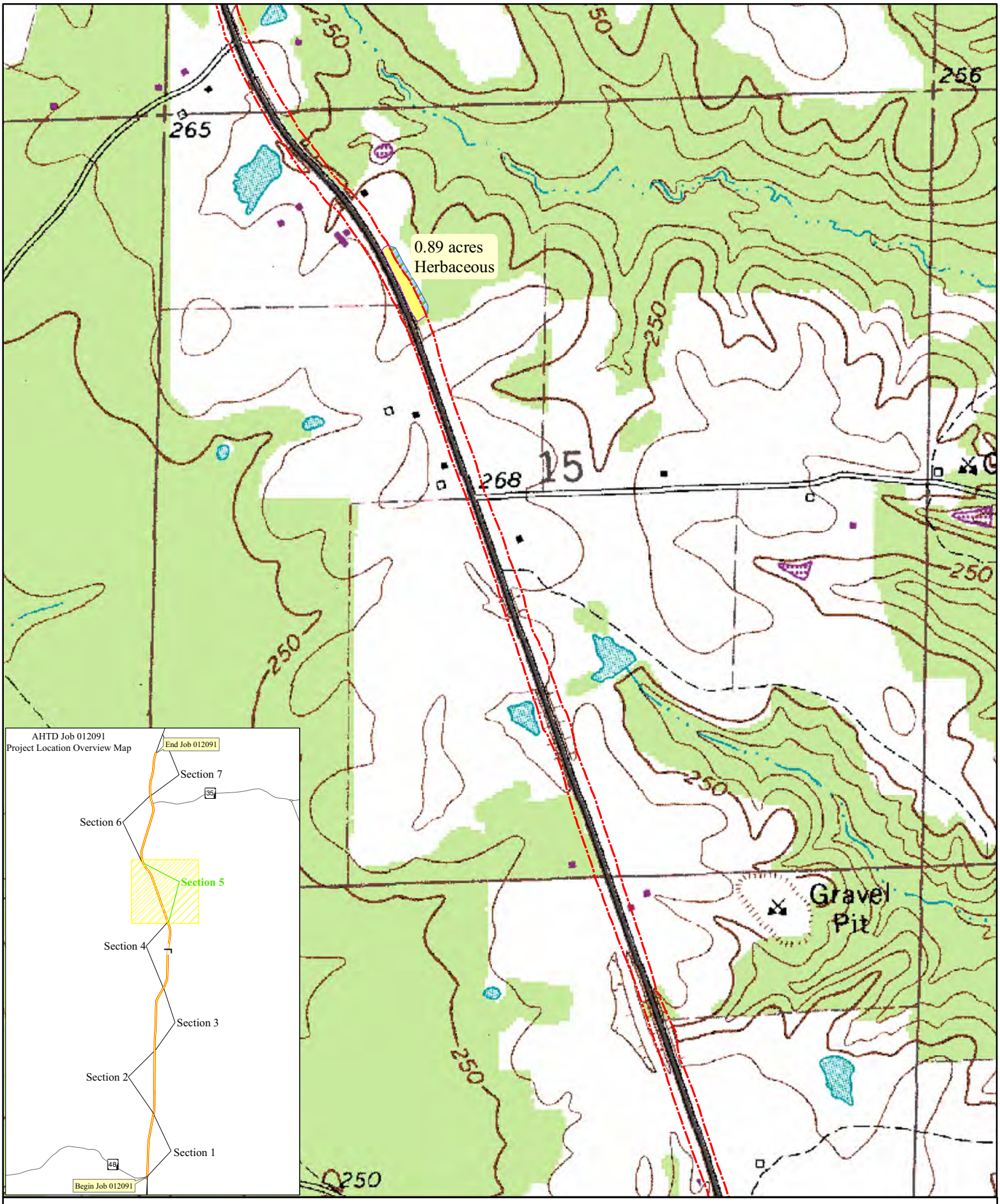
0 250 500 1,000 Feet

Job 012091
AHTD-Environmental GIS-Perry
May 12, 2008

Section 4

Impacted Wetlands
Wetlands
Construction Limits

Millerville 1984 USGS Topographic Map



Approximate Scale: 1:10,000

N

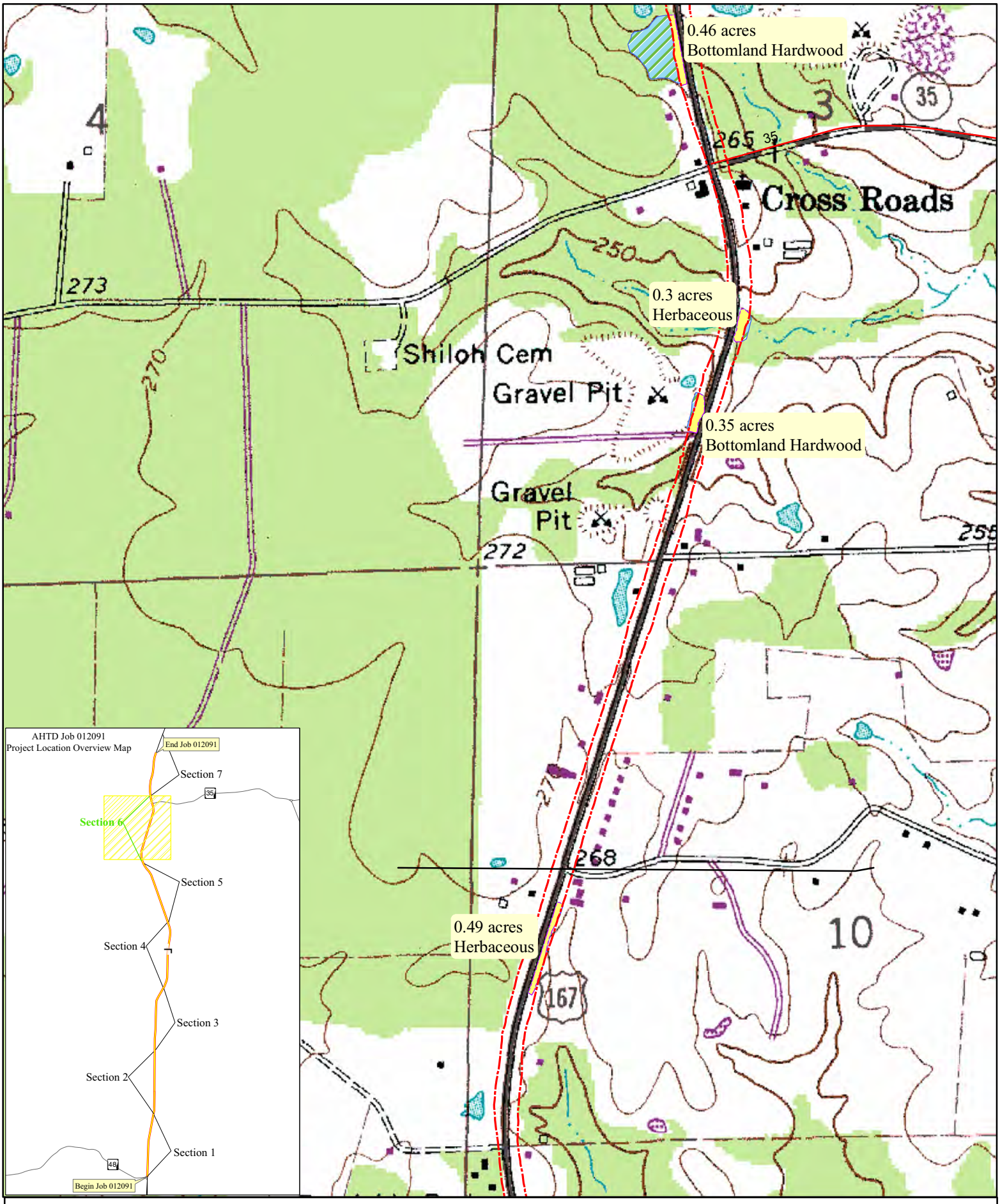
0 250 500 1,000 Feet

Job 012091
AHTD-Environmental GIS-Perry
May 12, 2008

Section 5

Impacted Wetlands
Wetlands
Construction Limits

Millerville 1984 USGS Topographic Map



Approximate Scale: 1:10,000

N

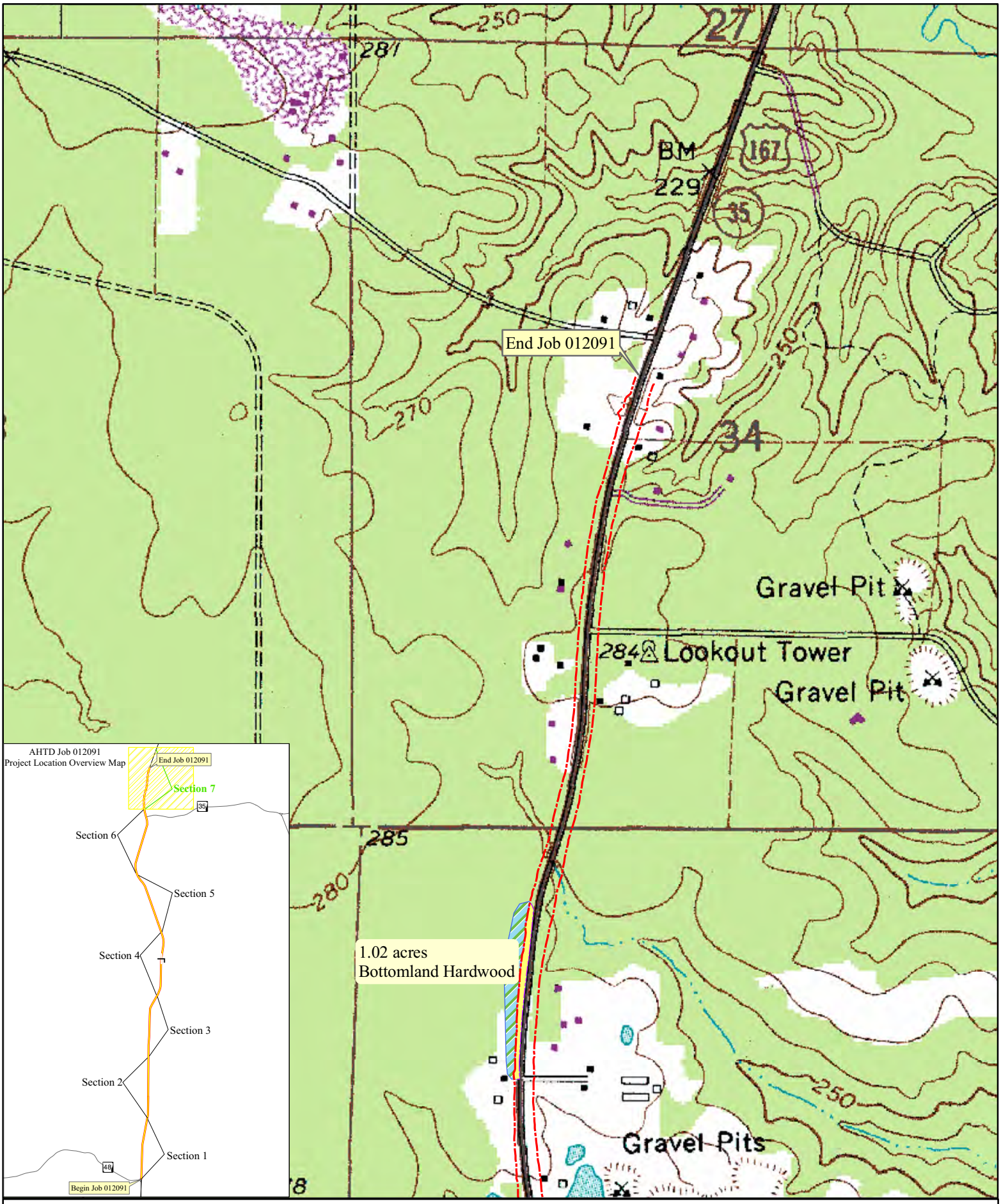
0 250 500 1,000 Feet

Job 012091
AHTD-Environmental GIS-Perry
May 12, 2008

Section 6

Impacted Wetlands
Wetlands
Construction Limits

Millerville 1984 USGS Topographic Map


End Job 012091
1.02 acres
Bottomland Hardwood
Gravel Pit
Lookout Tower
Gravel Pit
Gravel Pits
BM
229
167
35
27
34
285
284
281
280
270
250
AHTD Job 012091
Project Location Overview Map
End Job 012091
Section 7
Section 6
Section 5
Section 4
Section 3
Section 2
Section 1
Begin Job 012091
N
Approximate Scale: 1:10,000
0 250 500 1,000 Feet
Job 012091
AHTD-Environmental GIS-Perry
May 12, 2008
Section 7
Impacted Wetlands
Wetlands
Construction Limits
Millerville 1984 USGS Topographic Map

AHTD ENVIRONMENTAL IMPACTS ASSESSMENT FORM

AHTD Job Number 012091 FAP Number _____

Job Title Highway 46 - Sheridan Bypass

Environmental Impacts	None	Minor	Significant	Comments
Air Quality	✓			
Construction Impacts		✓		
Cultural Resources	✓			
Economic	✓			
Endangered Species	✓			
Energy Resources	✓			
Environmental Justice	✓			
Fish and Wildlife		✓		
Floodplains		✓		Bridges w. 11 to longer
Forest Service Property	✓			
Hazardous Materials/Landfills	✓			
Land Use Impacts	✓			
Migratory Birds		✓		S.P. Required
Navigation/Coast Guard	✓			
Noise Levels		✓		40 receptors NEC Abatement
Prime Farmland		✓		
Protected Streams	✓			Saline bridge currently under Cons.
Public Recreation Lands	✓			
Public Water Supply/WHPA	✓			
Relocatees		✓		1 residental owner 1 Business
Section 4(f)/6(f)	✓			
Social	✓			
Underground Storage Tanks		✓		5 potential locations
Visual Impacts	✓			
Stream Relocation	✓			
Water Quality		✓		
Wetlands		✓		35 acres mitigation mitig. Coord. to
Wildlife Refuges	✓			

Section 401 Water Quality Certification Required? Yes

Short-term Activity Authorization Required? Yes

Section 404 Permit Required? Yes Type Individual Permit

Remarks: widen I67 to Four travel lanes with a Turn lane and replace 7 bridges

Signature of Evaluator _____ Date 7/31/08

Date Submitted: April 30, 2008
Date Revised:

ROADWAY DESIGN REQUEST

Job Number 020424 FAP Number _____ County Grant
Job Name SALINE RIVER-NO.MILLERVILLE (S)
Design Engineer Martin Cruce Environmental Staff _____
Brief Project Description: Roadway Improvement-Widen Lanes and Shoulders

A. Existing Conditions:
1. Roadway Width: Metric: _____ English: 24' - 36'
2. Shoulder Width: Metric: _____ English: 8'
3. Number of Lanes and Width: Metric: _____ English 2 @ 12'
4. Existing Right-of-Way: Metric: _____ English 130'

B. Proposed Conditions:
1. Roadway Width: Metric: _____ English 59'
2. Shoulder Width: Metric: _____ English: 8'
3. Number of Lanes and Width: Metric: _____ English: 4 @ 12' and 1 @ 11'
4. Average Right-of-Way: Metric: _____ English: Varies 140'-260'

C. Construction Information:
If detour: Where: _____ Length: English _____

D. Design Data:
2009 ADT: 4700 2029 ADT: 6200 Trucks 24%

Design Speed: _____ km/h 60 m.p.h.

E. Approximate total length of project: _____ kilometer(s) 4.9 mile(s)

F. Justification for proposed improvements: Increase Capacity

G. Total Relocatees: 0 Residences: 0 Businesses: 0

H. Have you coordinated with any of the following: (Provide name and date)

City and or County Officials: _____
State Agency: _____
Federal Agency: _____

Date Submitted: April 30, 2008
Date Revised:

ROADWAY DESIGN REQUEST

Job Number 020425 FAP Number _____ County Grant
Job Name NO.MILLERVILLE-SHERIDAN BYPASS (S)
Design Engineer Martin Cruce Environmental Staff _____
Brief Project Description: Roadway Improvement-Widen Lanes and Shoulders

A. Existing Conditions:
1. Roadway Width: Metric: _____ English: 24' - 36'
2. Shoulder Width: Metric: _____ English: 8'
3. Number of Lanes and Width: Metric: _____ English 2 @ 12'
4. Existing Right-of-Way: Metric: _____ English 130'

B. Proposed Conditions:
1. Roadway Width: Metric: _____ English 59'
2. Shoulder Width: Metric: _____ English:
8'
3. Number of Lanes and Width: Metric: _____ English: 4 @ 12' and 1 @ 11'
4. Average Right-of-Way: Metric: _____ English: Varies 160'-210'

C. Construction Information:
If detour: Where: _____ Length: English _____

D. Design Data:
2009 ADT: 6500 2029 ADT: 8500 Trucks 21%

Design Speed: _____ km/h 60 m.p.h.

E. Approximate total length of project: _____ kilometer(s) 4.1 mile(s)

F. Justification for proposed improvements: Increase Capacity

G. Total Relocatees: 2? Residences: 1 Businesses: 1?

H. Have you coordinated with any of the following: (Provide name and date)

City and or County Officials: _____
State Agency: _____
Federal Agency: _____

Date Submitted to Bridge Division: _____ Date Returned to Env. Div. 6/30/08 012091

BRIDGE INFORMATION-PRELIMINARY

Job Number: 020424 FAP Number: 9990 County: Grant
Job Name: Saline River - No. Millerville (S)
Design Engineer: Bryan Freeling Environmental Staff: _____

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A. Description of Existing Bridge(s):
1. Bridge Number: 1350 over Gamble Slough
2. Location: Rte. 167 Section: 10 Log Mile: 0.55
3. Length: 481.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.500 ft
4. Type Construction: RCDG spans supported by concrete pile bents
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 62.1

B. Proposed Improvements:
1. Length: 542.13 ft ; Br. Rdwy. Width: 75.00 ft; Deck Width (Out to Out): 78.170 ft
2. Travel Lanes: No. 4; Width 12 ft
3. Shoulder Width: Left: 8.00 ft ; Right: 8.00 ft
4. Sidewalks? no ; Location: _____ ; Width: _____ ft

C. Construction Information:
1. Location in relation to existing bridge: Approx. 24' East of Existing C.L.
2. Superstructure Type: Cont. Prestressed Concrete Girder
3. Span Lengths: 3 Units @ 180' (60'-60'-60')
4. Substructure Type: Concrete Pile Bent
5. Ordinary High Water Elevation: _____
6. Number bents inside Ordinary High Water (OHW) Contours: ___
7. Concrete Volume below OHW:_____ yd3; Volume bent excavation:_____ yd3; Is backfill req'd? _
8. Is Channel Excavation Required? _ ; Surface Area:_____ ft2; Volume: _____ yd3
9. Is Fill below OHW req'd? _ ; Surface Area: _____ ft2; Volume: _____ yd3
10. Is Riprap required? _____ ; Volume: _____ yd3

D. Work Road Information:
1. Is Work Road(s) required? TBD ; Location: ___ ft _____; Top Width: __ ft
2. Is fill below OHW req'd? _____; Surface Area: _____ ft2; Volume: _____ yd3
3. Are Pipes required to meet Backwater Criteria? _; Waterway opening: _____ ft2

E. Detour Information:
1. Is a detour bridge required? No
2. Location in relation to existing Bridge. _____
3. Length: _____ ft ; Br. Rdwy.Width: _____ ft ; Deck Elevation: _____
4. Volume of Fill below OHW: _____ yd3; Surface Area: _____ ft2

F. Coordination with Outside Agencies (e.g. , FHWA, City, County, C of E, USCG)
Has Bridge Div. coordinated with any outside agencies? _____

Agency	Person Contacted	Date

Grant

Date Submitted to Bridge Division: _____ Date Returned to Env. Div. 6/30/08

BRIDGE INFORMATION-PRELIMINARY

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Job Number: 020424 FAP Number: 9990 County: Grant
Job Name: Saline River - No. Millerville (S)
Design Engineer: Bryan Freeling Environmental Staff: _____

A. Description of Existing Bridge(s):
1. Bridge Number: 1351 over Gamble Slough Relief
2. Location: Rte. 167 Section: 10 Log Mile: 0.81
3. Length: 151.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.500 ft
4. Type Construction: RCDG spans supported by concrete pile bents
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 62.1

B. Proposed Improvements:
1. Length: 180.13 ft ; Br. Rdwy. Width: 75.00 ft; Deck Width (Out to Out): 78.170 ft
2. Travel Lanes: No. 4; Width 12 ft
3. Shoulder Width: Left: 8.00 ft ; Right: 8.00 ft
4. Sidewalks? no ; Location: _____ ; Width: _____ ft

C. Construction Information:
1. Location in relation to existing bridge: Approx. 24' East of Existing C.L.
2. Superstructure Type: Cont. Prestressed Concrete Girder
3. Span Lengths: 1 Units @ 180' (60'-60'-60')
4. Substructure Type: Concrete Pile Bent
5. Ordinary High Water Elevation: _____
6. Number bents inside Ordinary High Water (OHW) Contours: ___
7. Concrete Volume below OHW: _____ yd3; Volume bent excavation: _____ yd3; Is backfill req'd? __
8. Is Channel Excavation Required? __ ; Surface Area: _____ ft2; Volume: _____ yd3
9. Is Fill below OHW req'd? __ ; Surface Area: _____ ft2; Volume: _____ yd3
10. Is Riprap required? _____ ; Volume: _____ yd3

D. Work Road Information:
1. Is Work Road(s) required? TBD ; Location: ___ ft _____; Top Width: __ ft
2. Is fill below OHW req'd? _____; Surface Area: _____ ft2; Volume: _____ yd3
3. Are Pipes required to meet Backwater Criteria? _____; Waterway opening: _____ ft2

E. Detour Information:
1. Is a detour bridge required? No
2. Location in relation to existing Bridge. _____
3. Length: _____ ft ; Br. Rdwy.Width: _____ ft ; Deck Elevation: _____
4. Volume of Fill below OHW: _____ yd3; Surface Area: _____ ft2

F. Coordination with Outside Agencies (e.g. , FHWA, City, County, C of E, USCG)
Has Bridge Div. coordinated with any outside agencies? _____

Agency	Person Contacted	Date

Grant

Date Submitted to Bridge Division: _____ Date Returned to Env. Div. 6/30/08

BRIDGE INFORMATION-PRELIMINARY

Job Number: 020424 FAP Number: 9990 County: Grant
Job Name: Saline River - No. Millerville (S)
Design Engineer: Bryan Freeling Environmental Staff: _____

A. Description of Existing Bridge(s):
1. Bridge Number: 1352 over Gamble Creek
2. Location: Rte. 167 Section: 10 Log Mile: 1.35
3. Length: 91.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.500 ft
4. Type Construction: RCDG spans supported by concrete pile bents
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 70.1

B. Proposed Improvements:
1. Length: 111.00 ft ; Br. Rdwy. Width: 75.00 ft; Deck Width (Out to Out): 78.170 ft
2. Travel Lanes: No. 4; Width 12 ft
3. Shoulder Width: Left: 8.00 ft ; Right: 8.00 ft
4. Sidewalks? no ; Location: _____ ; Width: _____ ft

C. Construction Information:
1. Location in relation to existing bridge: Approx. 24' East of Existing C.L.
2. Superstructure Type: Integral W -Beam Unit
3. Span Lengths: 1 Unit @ 110' (35'-40'-35')
4. Substructure Type: Concrete Pile Bent
5. Ordinary High Water Elevation: _____
6. Number bents inside Ordinary High Water (OHW) Contours: ___
7. Concrete Volume below OHW:_____ yd3; Volume bent excavation:_____ yd3; Is backfill req'd? _
8. Is Channel Excavation Required? _ ; Surface Area:_____ ft2; Volume: _____ yd3
9. Is Fill below OHW req'd? _ ; Surface Area: _____ ft2; Volume: _____ yd3
10. Is Riprap required? _____ ; Volume: _____ yd3

D. Work Road Information:
1. Is Work Road(s) required? TBD ; Location: ___ ft _____; Top Width: __ ft
2. Is fill below OHW req'd? _____; Surface Area: _____ ft2; Volume: _____ yd3
3. Are Pipes required to meet Backwater Criteria? _____; Waterway opening: _____ ft2

E. Detour Information:
1. Is a detour bridge required? No
2. Location in relation to existing Bridge. _____
3. Length: _____ ft ; Br. Rdwy.Width: _____ ft ; Deck Elevation: _____
4. Volume of Fill below OHW: _____ yd3; Surface Area: _____ ft2

F. Coordination with Outside Agencies (e.g. , FHWA, City, County, C of E, USCG)
Has Bridge Div. coordinated with any outside agencies? _____

Agency	Person Contacted	Date

Grant

Date Submitted to Bridge Division: _____ Date Returned to Env. Div. 6/30/08

BRIDGE INFORMATION-PRELIMINARY

Job Number: 020424 FAP Number: 9990 County: Grant
Job Name: Saline River - No. Millerville (S)
Design Engineer: Bryan Freeling Environmental Staff: _____

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A. Description of Existing Bridge(s):
1. Bridge Number: 1353 over Gamble Creek
2. Location: Rte. 167 Section: 10 Log Mile: 1.65
3. Length: 91.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.500 ft
4. Type Construction: RCDG spans supported by concrete pile bents
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 58.9

B. Proposed Improvements:
1. Length: 111.00 ft ; Br. Rdwy. Width: 75.00 ft; Deck Width (Out to Out): 78.170 ft
2. Travel Lanes: No. 4; Width 12 ft
3. Shoulder Width: Left: 8.00 ft ; Right: 8.00 ft
4. Sidewalks? no ; Location: _____ ; Width: _____ ft

C. Construction Information:
1. Location in relation to existing bridge: Approx. 24' East of Existing C.L.
2. Superstructure Type: Integral W -Beam Unit
3. Span Lengths: 1 Unit @ 110' (35'-40'-35')
4. Substructure Type: Concrete Pile Bent
5. Ordinary High Water Elevation: _____
6. Number bents inside Ordinary High Water (OHW) Contours: ___
7. Concrete Volume below OHW:_____ yd3; Volume bent excavation:_____ yd3; Is backfill req'd? _
8. Is Channel Excavation Required? _ ; Surface Area:_____ ft2; Volume: _____ yd3
9. Is Fill below OHW req'd? _ ; Surface Area: _____ ft2; Volume: _____ yd3
10. Is Riprap required? _____ ; Volume: _____ yd3

D. Work Road Information:
1. Is Work Road(s) required? TBD ; Location: ___ ft _____; Top Width: __ ft
2. Is fill below OHW req'd? _____; Surface Area: _____ ft2; Volume: _____ yd3
3. Are Pipes required to meet Backwater Criteria? _____; Waterway opening: _____ ft2

E. Detour Information:
1. Is a detour bridge required? No
2. Location in relation to existing Bridge. _____
3. Length: _____ ft ; Br. Rdwy.Width: _____ ft ; Deck Elevation: _____
4. Volume of Fill below OHW: _____ yd3; Surface Area: _____ ft2

F. Coordination with Outside Agencies (e.g. , FHWA, City, County, C of E, USCG)
Has Bridge Div. coordinated with any outside agencies? _____

Agency	Person Contacted	Date

Grant

012041

Date Submitted to Bridge Division: _____ Date Returned to Env. Div. 6/30/08

BRIDGE INFORMATION-PRELIMINARY

Job Number: 070291 FAP Number: 9990 County: Cleveland & Dallas
Job Name: Saline River - South (S)
Design Engineer: Bryan Freeling Environmental Staff: _____

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A. Description of Existing Bridge(s):
1. Bridge Number: 1354 over Saline River Relief
2. Location: Rte. 167 Section: 8 & 9 Log Mile: 3.68
3. Length: 199.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.500 ft
4. Type Construction: RCDG spans supported by concrete pile bents
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 60.1

B. Proposed Improvements:
1. Length: 242.13 ft ; Br. Rdwy. Width: 75.00 ft; Deck Width (Out to Out): 78.170 ft
2. Travel Lanes: No. 4; Width 12 ft
3. Shoulder Width: Left: 8.00 ft ; Right: 8.00 ft
4. Sidewalks? no ; Location: _____ ; Width: _____ ft

C. Construction Information:
1. Location in relation to existing bridge: Not set at this time .
2. Superstructure Type: Cont. Prestressed Concrete Girder
3. Span Lengths: 1 Units @ 240' (60'-60'-60'-60')
4. Substructure Type: Concrete Pile Bent
5. Ordinary High Water Elevation: _____
6. Number bents inside Ordinary High Water (OHW) Contours: ___
7. Concrete Volume below OHW:_____ yd3; Volume bent excavation:_____ yd3; Is backfill req'd? _
8. Is Channel Excavation Required? _ ; Surface Area:_____ ft2; Volume: _____ yd3
9. Is Fill below OHW req'd? _ ; Surface Area: _____ ft2; Volume: _____ yd3
10. Is Riprap required? _____ ; Volume: _____ yd3

D. Work Road Information:
1. Is Work Road(s) required? TBD ; Location: ___ ft _____; Top Width: __ ft
2. Is fill below OHW req'd? _____; Surface Area: _____ ft2; Volume: _____ yd3
3. Are Pipes required to meet Backwater Criteria? _____; Waterway opening: _____ ft2

E. Detour Information:
1. Is a detour bridge required? No
2. Location in relation to existing Bridge. _____
3. Length: _____ ft ; Br. Rdwy.Width: _____ ft ; Deck Elevation: _____
4. Volume of Fill below OHW: _____ yd3; Surface Area: _____ ft2

F. Coordination with Outside Agencies (e.g. , FHWA, City, County, C of E, USCG)
Has Bridge Div. coordinated with any outside agencies? _____

Agency	Person Contacted	Date

Dallas

Date Submitted to Bridge Division: _____ Date Returned to Env. Div. 6/30/08

BRIDGE INFORMATION-PRELIMINARY

Job Number: 070291_____ FAP Number: 9990 County: Cleveland & Dallas
Job Name: Saline River - South (S)
Design Engineer: Bryan Freeling_____ Environmental Staff: _____

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A. Description of Existing Bridge(s):
1. Bridge Number: 1355 over Saline River Relief
2. Location: Rte. 167 Section: 8 & 9 Log Mile: 3.18
3. Length: 265.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.500 ft
4. Type Construction: RCDG spans supported by concrete pile bents
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 60.1

B. Proposed Improvements:
1. Length: 302.17 ft ; Br. Rdwy. Width: 75.00 ft; Deck Width (Out to Out): 78.170 ft
2. Travel Lanes: No. 4; Width 12 ft
3. Shoulder Width: Left: 8.00 ft ; Right: 8.00 ft
4. Sidewalks? no_____ ; Location: _____ ; Width: _____ ft

C. Construction Information:
1. Location in relation to existing bridge: Not set at this time .
2. Superstructure Type: _____Cont. Prestressed Concrete Girder
3. Span Lengths: 1 Units @ 300' (60'-60'-60'-60'-60')
4. Substructure Type: _____Concrete Pile Bent
5. Ordinary High Water Elevation: _____
6. Number bents inside Ordinary High Water (OHW) Contours: ___
7. Concrete Volume below OHW:_____ yd3; Volume bent excavation:_____ yd3; Is backfill req'd? _
8. Is Channel Excavation Required? _ ; Surface Area:_____ ft2; Volume: _____ yd3
9. Is Fill below OHW req'd? _ ; Surface Area: _____ ft2; Volume: _____ yd3
10. Is Riprap required? _____ ; Volume: _____ yd3

D. Work Road Information:
1. Is Work Road(s) required? TBD ; Location: ___ ft _____; Top Width: __ ft
2. Is fill below OHW req'd? ____; Surface Area: _____ ft2; Volume: _____ yd3
3. Are Pipes required to meet Backwater Criteria? _____; Waterway opening: _____ ft2

E. Detour Information:
1. Is a detour bridge required? No
2. Location in relation to existing Bridge. _____
3. Length: _____ ft ; Br. Rdwy.Width: _____ ft ; Deck Elevation: _____
4. Volume of Fill below OHW: _____ yd3; Surface Area: _____ ft2

F. Coordination with Outside Agencies (e.g. , FHWA, City, County, C of E, USCG)
Has Bridge Div. coordinated with any outside agencies? _____

Agency	Person Contacted	Date

Dallas

Date Submitted to Bridge Division: _____ Date Returned to Env. Div. 6/30/08

BRIDGE INFORMATION-PRELIMINARY

Job Number: 070291 FAP Number: 9990 County: Cleveland & Dallas
Job Name: Saline River - South (S)
Design Engineer: Bryan Freeling Environmental Staff: _____

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A. Description of Existing Bridge(s):
1. Bridge Number: 1356 over Saline River Relief
2. Location: Rte. 167 Section: 8 & 9 Log Mile: 2.65
3. Length: 166.17 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.50 ft
4. Type Construction: RCDG spans supported by concrete pile bents
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 60.1

B. Proposed Improvements:
1. Length: 182.13 ft ; Br. Rdwy. Width: 75.00 ft; Deck Width (Out to Out): 78.170 ft
2. Travel Lanes: No. 4; Width 12 ft
3. Shoulder Width: Left: 8.00 ft ; Right: 8.00 ft
4. Sidewalks? no ; Location: _____ ; Width: _____ ft

C. Construction Information:
1. Location in relation to existing bridge: Not set at this time .
2. Superstructure Type: Cont. Prestressed Concrete Girder
3. Span Lengths: 1 Units @ 180' (60'-60'-60')
4. Substructure Type: Concrete Pile Bent
5. Ordinary High Water Elevation: _____
6. Number bents inside Ordinary High Water (OHW) Contours: ___
7. Concrete Volume below OHW: _____ yd3; Volume bent excavation: _____ yd3; Is backfill req'd? _
8. Is Channel Excavation Required? _ ; Surface Area: _____ ft2; Volume: _____ yd3
9. Is Fill below OHW req'd? _ ; Surface Area: _____ ft2; Volume: _____ yd3
10. Is Riprap required? _____ ; Volume: _____ yd3

D. Work Road Information:
1. Is Work Road(s) required? TBD ; Location: ___ ft _____; Top Width: __ ft
2. Is fill below OHW req'd? _____; Surface Area: _____ ft2; Volume: _____ yd3
3. Are Pipes required to meet Backwater Criteria? _____; Waterway opening: _____ ft2

E. Detour Information:
1. Is a detour bridge required? No
2. Location in relation to existing Bridge. _____
3. Length: _____ ft ; Br. Rdwy.Width: _____ ft ; Deck Elevation: _____
4. Volume of Fill below OHW: _____ yd3; Surface Area: _____ ft2

F. Coordination with Outside Agencies (e.g. , FHWA, City, County, C of E, USCG)
Has Bridge Div. coordinated with any outside agencies? _____

Agency	Person Contacted	Date

Dallas