

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

July 28, 2010

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

Re: AHTD Job Number 070321  
FAP Number NH-2013(1)  
Hwy. 273– Hwy. 48 NEPA Study  
Dallas and Cleveland 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 273 to Highway 48 at Farindale, and replace seven bridges. The total length of this project is 14.2 miles.

Existing Highway 167 consists of two 11-foot wide travel lanes with eight-foot wide shoulders. The existing right of way along the route averages 120 feet wide. The existing bridge structure locations and descriptions are listed in Table 1.

<b>Table 1</b>			
<b>Existing Bridge Information</b>			
<b>Bridge No.</b>	<b>Sufficiency Rating</b>	<b>Stream</b>	<b>Existing Structure</b>
00788	NQ 76.3	Moro Creek Relief	142' x 28' reinforced concrete deck girders (RCDG) supported by concrete pile bents
00789	NQ 60.8	Moro Creek	106' x 28' RCDG supported by concrete pile bents
00790	NQ 60.8	Moro Creek Relief	106' x 28' RCDG supported by concrete pile bents
00791	NQ 59.0	Moro Creek Relief	71' x 28' RCDG supported by concrete pile bents
00792	NQ 62.5	Moro Creek Relief	141' x 28' RCDG supported by concrete pile bents
00793	NQ 70.8	Guise Creek	141' x 28' RCDG supported by concrete pile bents
00794	NQ 60.5	Guise Creek Relief	106' x 28' RCDG supported by concrete pile bents

The proposed improvements for most of the project will consist of adding two 12-foot wide travel lanes with a eight-foot wide outside shoulder and a six-foot inside shoulder. A 60-foot wide grass median will separate the existing lanes and the proposed lanes. In order to minimize wetland impacts, the proposed cross section at the Moro Creek floodplain will consist of four 12-foot wide paved travel lanes, an 11-foot continuous turn lane and eight-foot wide shoulders. The new right of way for the project will average 210 feet wide. Design data for this project is found in Table 2.

<b>Table 2</b>			
<b>Design Information</b>			
<b>Design Year</b>	<b>Average Daily Traffic</b>	<b>Percent Trucks</b>	<b>Design Speed</b>
2012	4,200	24	60 mph
2032	5,200	24	60 mph

Descriptions and locations of the proposed bridge structures are listed in Table 3. The Moro Creek and Moro Creek Relief bridges will use staged construction and be built 24 feet downstream. The Guise Creek and Guise Creek Relief bridges will have bridges on new location 84 feet downstream. No detours will be constructed.

<b>Table 2</b>		
<b>Proposed Bridge Information</b>		
<b>Bridge No.</b>	<b>Stream</b>	<b>Proposed Structure</b>
00788	Moro Creek Relief	182.17' x 75' continuous prestressed concrete girders on concrete pile bents
00789	Moro Creek	152.17' x 75' continuous prestressed concrete girders on concrete pile bents
00790	Moro Creek Relief	152.17' x 75' continuous prestressed concrete girders on concrete pile bents
00791	Moro Creek Relief	122.17' x 75' continuous prestressed concrete girders on concrete pile bents
00792	Moro Creek Relief	182.17' x 75' continuous prestressed concrete girders on concrete pile bents
00793	Guise Creek	182.17' 75' continuous prestressed concrete girders on concrete pile bents
00794	Guise Creek Relief	152.17' x 75' continuous prestressed concrete girders on concrete pile bents

There are no endangered species, cultural resources or environmental justice issues associated with this project. Approximately 31 acres of prime farmland and 30 acres of farmland of statewide importance will be acquired for right of way. Form NRCS-CPA-106, the Farmland Conversion Impact Rating, is enclosed. Field inspections found no evidence of existing underground storage tanks or hazardous waste deposits. Four residential owners 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.


AHTD Job Number 070321  
Tier Three Categorical Exclusion  
Page 4 of 4

Construction of this project will impact approximately 16 acres of wetlands and have 27 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.

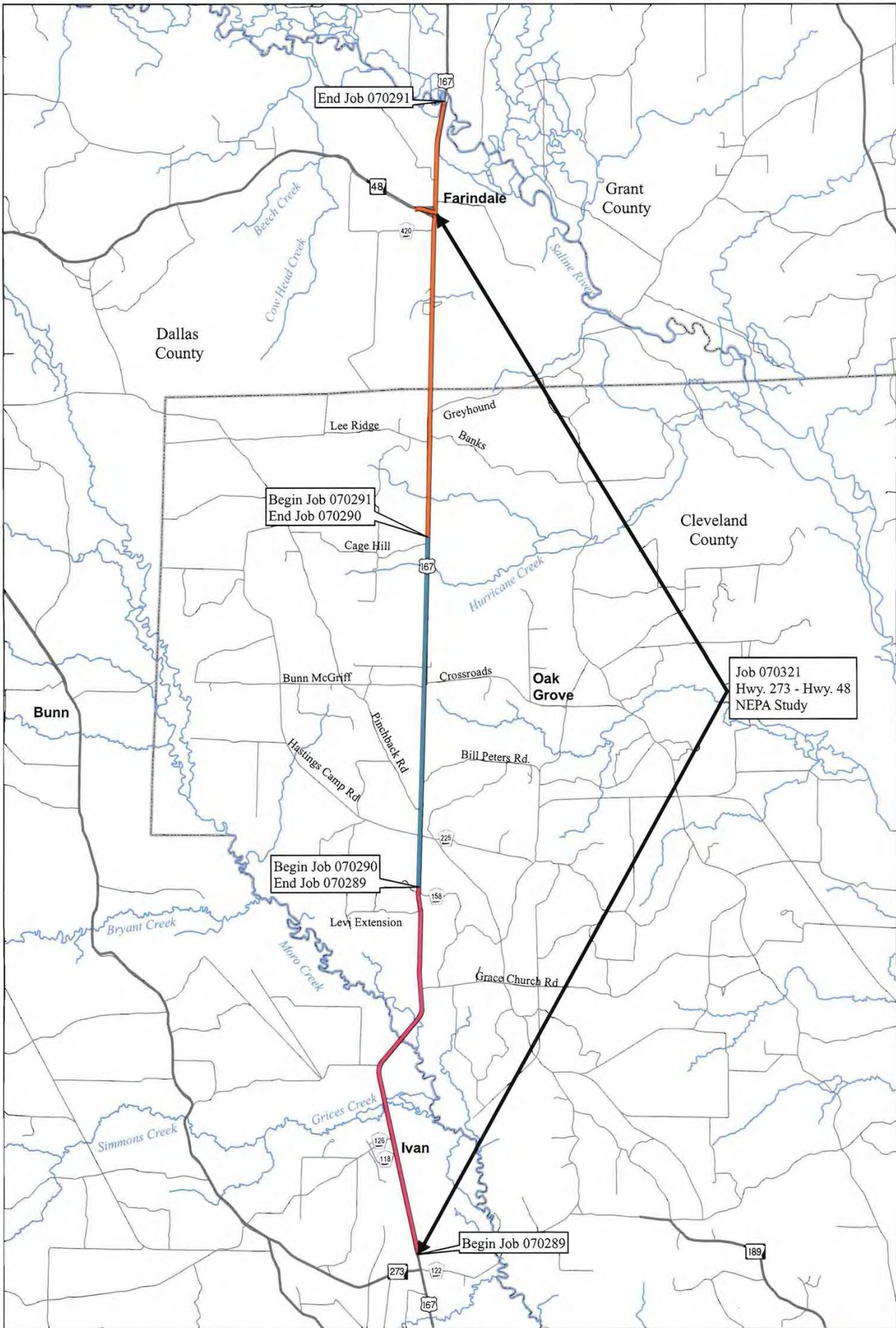
**APPROVED**  
  
Environmental Specialist  
Federal Highway Administration  
Date: 8/2/2010

Sincerely,

  
Lynn P. Malbrough  
Division Head  
Environmental Division

Enclosures  
LPM:JB:trb

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



0 0.25 0.5 1 Mile  
 AHTD Environmental GIS - Dudley  
 Map Date: July 21, 2010

Job 070321  
 Hwy. 273 - Hwy. 48  
 Nepa Study  
 Cleveland and Dallas Counties



## **AHTD Job Number 070290**

### **Noise Assessment**

A noise assessment has been conducted for this project utilizing the Federal Highway Administration's Traffic Noise Model procedures, existing and proposed roadway information, existing traffic information and the traffic projections for the design year of 2031. This assessment is based on the design year Leq Noise Abatement Criteria (NAC) level of 67dBA, which has been established by the Federal Highway Administration (FHWA) as the impact level for noise receptors associated with highway projects. This level or any exceedance of this level is considered a noise impact.

The project design includes a rural roadway cross-section consisting of four 12-foot wide travel lanes separated by a 60-foot wide grass median, with eight-foot wide outside shoulders and six-foot wide inside shoulders.

The results of the noise assessment reveal that any noise receptor located within 153 feet of the proposed centerline along the proposed project location will experience noise levels that exceed the NAC and will be considered impacted by highway traffic noise.

Four sensitive receptors located along the proposed project location are predicted to experience noise impacts resulting from noise levels that approach or exceed 67dBA 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. Based upon AHTD's "Policy of Reasonableness and Feasibility For Type 1 – Noise Abatement Measures," noise abatement barrier walls and/or berms are not warranted due to the low number of sensitive receptors affected and the prohibitive cost per sensitive receptor.

To avoid noise levels in excess of design levels, any future receptors along the project location should be located a minimum of 165 feet from the proposed centerline of Highway 167. This distance should be used as a general guide and not as 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 both the Southeast Arkansas Economic Development District and the Southwest Arkansas Planning and Development District for possible use in present and future land use planning.

FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS

**PART I (To be completed by Federal Agency)** 070321 3. Date of Land Evaluation Request 7/22/10<sup>4</sup> Sheet 1 of \_\_\_

1. Name of Project Hwy 273 - Hwy 48 NEPA 5. Federal Agency Involved FHWA

2. Type of Project Hwy widening 6. County and State Dallas Cleveland

**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? YES  NO   
(If no, the FPPA does not apply - Do not complete additional parts of this form).

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	31.04
B. Total Acres Statewide And Local Important Farmland	30.17
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	Corridor A	Corridor B	Corridor C	Corridor D
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	0			
8. On-Farm Investments	20	0			
9. Effects Of Conversion On Farm Support Services	25	0			
10. Compatibility With Existing Agricultural Use	10	0			
<b>TOTAL CORRIDOR ASSESSMENT POINTS</b>	<b>160</b>	<b>040</b>	<b>0</b>	<b>0</b>	<b>0</b>

**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	040	0	0	0
<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>	<b>0140</b>	<b>0</b>	<b>0</b>	<b>0</b>

1. Corridor Selected: Existing 2. Total Acres of Farmlands to be Converted by Project: 31.04 Prime, 30.17 Statewide

3. Date Of Selection: 4. Was A Local Site Assessment Used? YES  NO

5. Reason For Selection:

Signature of Person Completing this Part: *John Bull* DATE: 7/22/10

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

RECEIVED  
AHTD

JUL 23 2010

ARKANSAS STATE HIGHWAY  
AND  
TRANSPORTATION DEPARTMENT

ENVIRONMENTAL  
DIVISION

73161  
FHU

Dan Flowers  
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Little Rock, Arkansas 72203-2261  
Telefax (501) 569-2400

July 12, 2010

Mr. George McCluskey  
Section 106 Review Officer  
1500 Tower Building  
323 Center Street  
Little Rock, Arkansas 72201

AHPP  
JUL 14 2010

Re: AHTD Job Number 070291  
Saline River – South (Hwy. 167)  
Cleveland/Dallas Counties

Dear Mr. McCluskey:

A Project Identification Form for the referenced project is enclosed. Please review for concurrence with the findings of my staff. If you have any questions or require additional information, please contact Chris Branam of my staff at 501-569-2594.

Sincerely,

A handwritten signature in black ink, appearing to read 'Lynn P. Malbrough', with a long horizontal flourish extending to the right.

Lynn P. Malbrough  
Division Head  
Environmental Division

Enclosure

LPM:JM:CB:ab

Date 07/16/10  
No known historic properties will be affected by this undertaking. This effect determination could change should new information come to light.  
A handwritten signature in black ink, appearing to read 'Frances McSwain', with a long horizontal flourish extending to the right.  
Frances McSwain, Deputy State  
Historic Preservation Officer



ARKANSAS STATE HIGHWAY  
AND  
TRANSPORTATION DEPARTMENT

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AHTD

JUL 23 2010 7 31 68

ENVIRONMENTAL  
DIVISION

FHWB

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Little Rock, Arkansas 72203-2261  
Telefax (501) 569-2400

July 12, 2010

Mr. George McCluskey  
Section 106 Review Officer  
1500 Tower Building  
323 Center Street  
Little Rock, Arkansas 72201

Re: AHTD Job Number 070290  
Peters Rd. (CR 24) – North (S)  
Cleveland County

**AHPP**

JUL 14 2010

Dear Mr. McCluskey:

A Project Identification Form for the referenced project is enclosed. Please review for concurrence with the findings of my staff. If you have any questions or require additional information, please contact Chris Branam of my staff at 501-569-2594.

Sincerely,

A handwritten signature in black ink that reads 'Lynn P. Malbrough'.

Lynn P. Malbrough  
Division Head  
Environmental Division

Enclosure

LPM:JM:CB:ab

Date 07/16/10  
No known historic properties will be  
affected by this undertaking. This  
effect determination could change  
should new information come to light.  
A handwritten signature in black ink that reads 'Frances McSwain'.  
Frances McSwain, Deputy State  
Historic Preservation Officer

ARKANSAS STATE HIGHWAY  
AND  
TRANSPORTATION DEPARTMENT

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AHTD

JUL 23 2010

ENVIRONMENTAL  
DIVISION

73159

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NAE

Dan Flowers  
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Little Rock, Arkansas 72203-2261  
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July 12, 2010

Mr. George McCluskey  
Section 106 Review Officer  
1500 Tower Building  
323 Center Street  
Little Rock, Arkansas 72201

Re: AHTD Job Number 070289  
Hwy. 273 – Peters Rd. (CR 24) (S)  
~~Dallas~~/Cleveland Counties

AHPP  
JUL 14 2010

Dear Mr. McCluskey:

A Project Identification Form for the referenced project is enclosed. Please review for concurrence with the findings of my staff. If you have any questions or require additional information, please contact Chris Branam of my staff at 501-569-2594.

Sincerely,

Lynn P. Malbrough  
Division Head  
Environmental Division

Enclosure

LPM:JM:CB:ab

Date 07/16/10  
This undertaking will have no  
adverse effect on historic properties.  
  
Frances McSwain, Deputy  
State Historic Preservation Officer

# **WETLANDS/STREAM ASSESSMENT**

## **PURSUANT TO SECTION 404**

### **CLEAN WATER ACT**

#### **AHTD JOB NUMBER 070321 HWY. 273 – HWY. 48 NEPA STUDY DALLAS & CLEVELAND COUNTIES**

This analysis finds that there is no practicable alternative to construction in wetlands adjacent to Highway 167 in Dallas and Cleveland 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 include scrub/shrub wetlands, 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 bottomland hardwood wetlands. See the attached wetland location map.

### Description of Wetlands

Wetlands affected by this project include bottomland hardwood wetlands, herbaceous wetlands, and scrub/shrub wetlands. Dominant vegetation in the bottomland hardwood wetlands includes green ash (*Fraxinus pennsylvanica*), American elm (*Ulmus americana*), willow oak (*Quercus phellos*), water oak (*Quercus nigra*), sweet gum (*Liquidambar styraciflua*), and overcup oak (*Quercus lyrata*). Figure 1 illustrates typical bottomland hardwood wetlands.

The dominant vegetation in the herbaceous wetlands includes soft rush (*Juncus spp.*), various sedges (*Carex spp.*), wool grass (*Scirpus cyperinus*), smartweed (*Polygonum spp.*), and southern wild rice (*Zizaniopsis miliacea*). Figure 2 (a and b) shows typical herbaceous wetlands.

The dominant vegetation in the scrub/shrub wetlands includes soft rush (*Juncus spp.*), black willow (*Salix nigra*), smartweed (*Polygonum spp.*), salt bush (*Baccharis halimifolia*), wool grass (*Scirpus cyperinus*), and sweet gum saplings (*Liquidambar styraciflua*). Figure 3 illustrates typical scrub/shrub wetlands.

### Description of Streams

The streams affected by construction of this project are classified as intermittent and perennial streams that are associated with the Saline River drainage system. Moro Creek is the only 5CFS classified stream on the project. The bridge structures will be replaced with new, structurally sufficient bridges. Work roads will be required to provide access for bridge demolition and construction. The existing concrete box culverts will be retained and extended, and where necessary, additional pipe culverts will be added to maintain flow of the streams. Figure 4 (a and b) show typical streams in the area.



Figure 1  
Typical Bottomland Hardwood Wetland



Figure 2 (a)  
Typical Herbaceous Wetland



Figure 2 (b)  
Typical Herbaceous Wetland



Figure 3  
Typical Scrub/Shrub Wetland



Figure 4 (a)  
Typical Stream Crossing



Figure 4 (b)  
Typical Stream Crossing

### 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 located 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.

### Impacts

Construction of this project will permanently impact approximately 16.06 acres of wetlands. There will be approximately 6.78 acres (2.74 hectares) of bottomland hardwood wetlands, 4.61 acres (1.87 hectares) of scrub/shrub wetlands, and 4.67 acres (1.89 hectares) of herbaceous wetlands impacted by the proposed project.

There will be 28 stream crossings of waters of the United States during construction of this project. Approximately 3,010 linear feet of stream relocation will be required for the new stream crossing structures. Stream relocation will be minimized as much as possible during the final design stage of project development.

Water quality will be temporarily impacted during construction due to placement of permanent and temporary fills and excavation for channel conveyance improvements and re-alignments. 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 the unavoidable wetlands impacts due to the proposed project will be offered at the Middle Ouachita River Mitigation Bank Site (MORMBS). Mitigation



credits were calculated using the Charleston Method based on impacts to 6.78 acres of bottomland hardwood wetlands, 4.61 acres of scrub/shrub wetlands, and 4.67 acres of herbaceous wetlands. Mitigation credits debited from the MORMBS will be at a ratio of 3.3:1 for bottomland hardwood wetlands, 2.8:1 for scrub/shrub wetlands, and 2.4:1 for herbaceous wetlands impacted.

### Conclusion

Construction in wetlands adjacent to the proposed project on Highway 167 in Dallas and Cleveland Counties 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

## Calculating Required Mitigation Credits (Debits)

### 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 functioning 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

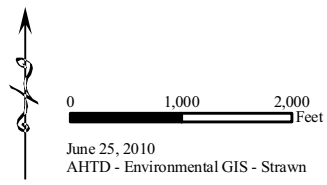
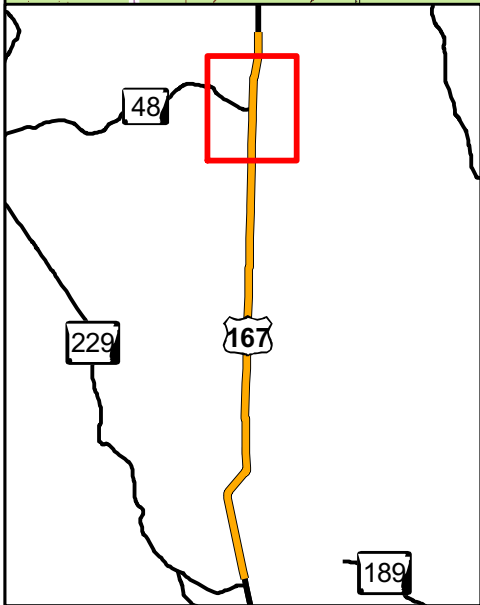
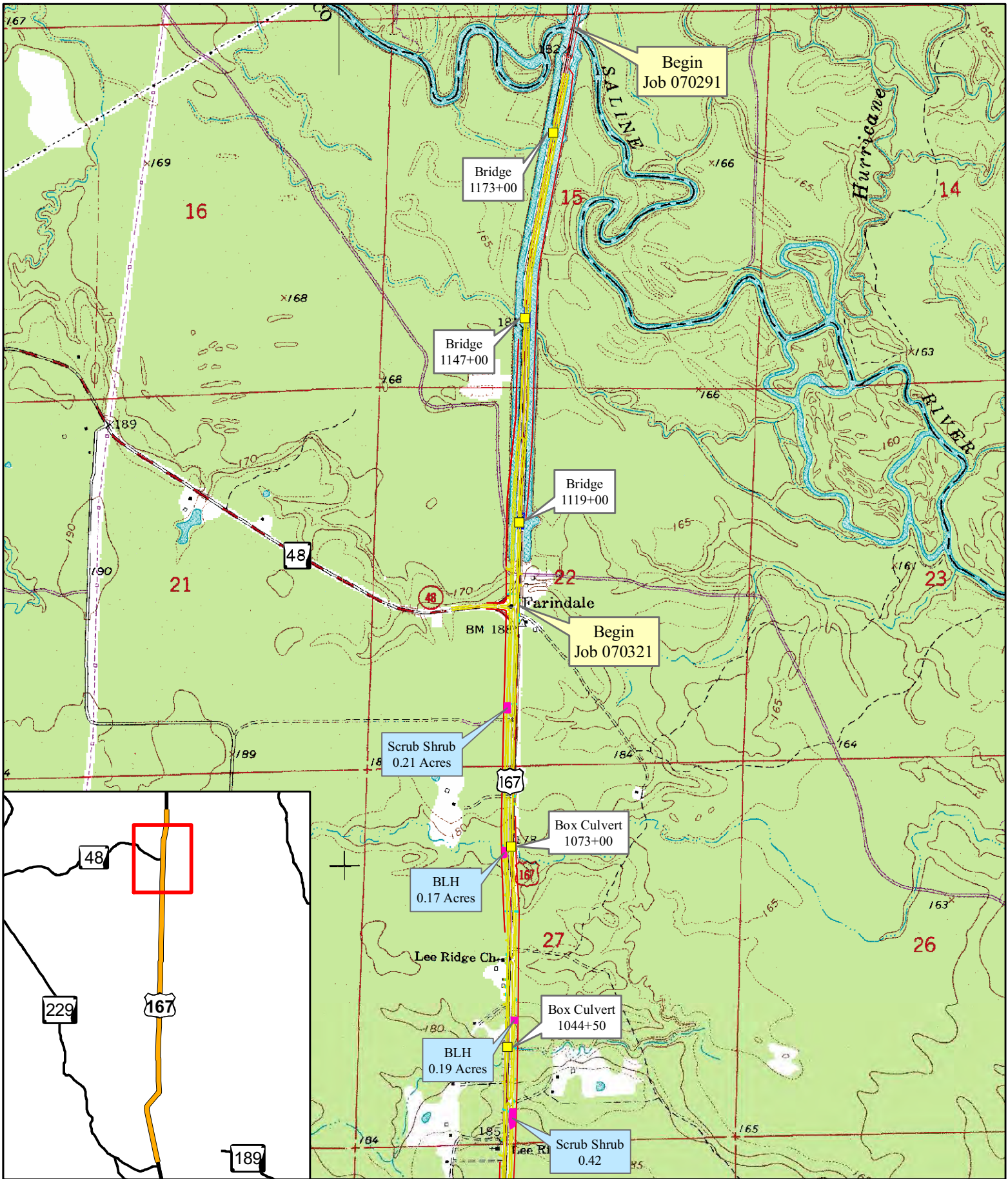
FACTORS	OPTIONS					
<b>Lost Type</b>	Type C 0.2		Type B 2.0		Type A 3.0	
<b>Priority Category</b>	Tertiary 0.5		Secondary 1.5		Primary 2.0	
<b>Existing Condition</b>	Very Impaired 0.1	Impaired 1.0		Slightly Impaired 2.0		Fully Functional 2.5
<b>Duration</b>	Seasonal 0.1	0 to 1 0.2	1 to 3 0.5	3 to 5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

### REQUIRED MITIGATION CREDITS WORKSHEET

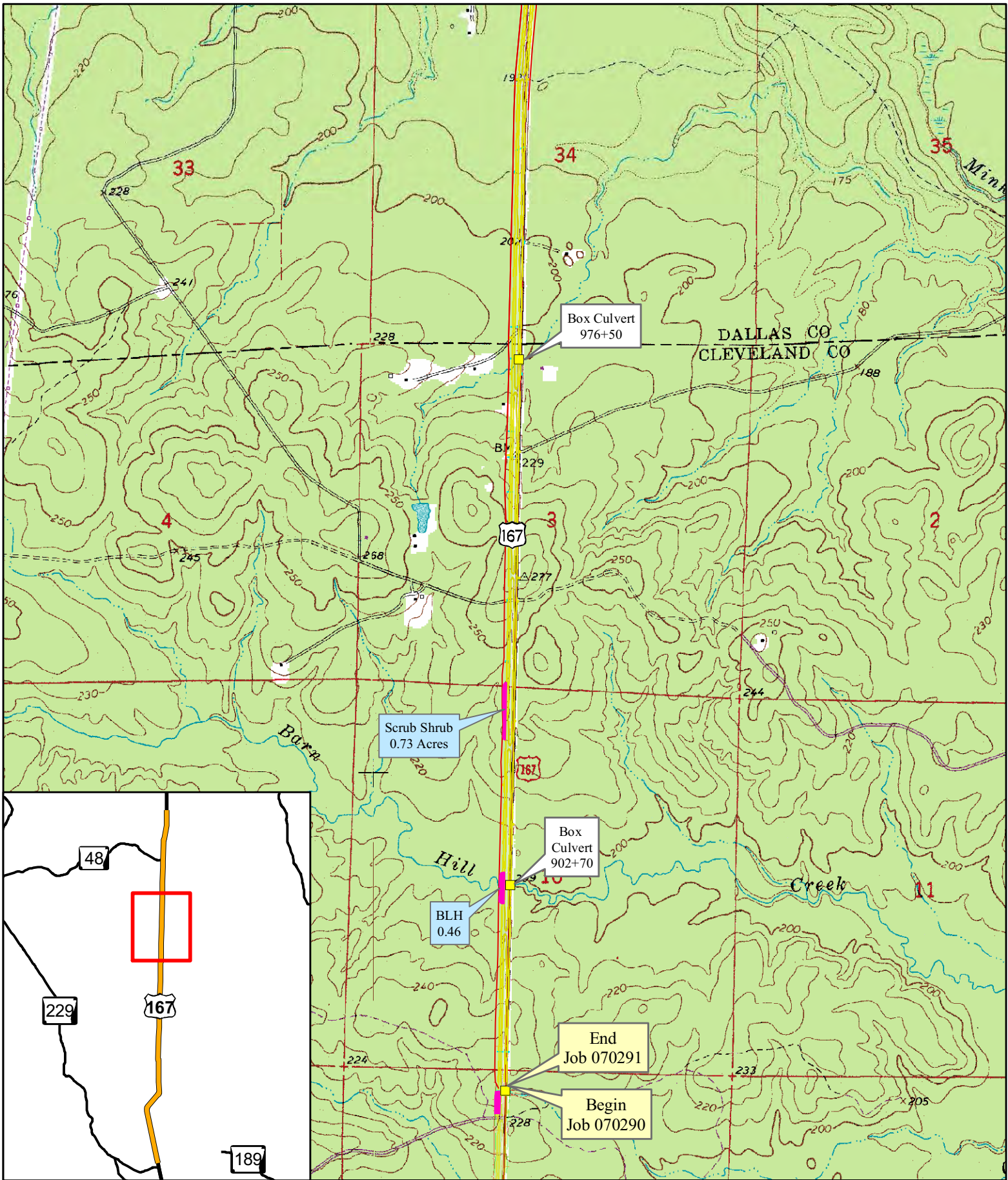
Factor	Forested	Scrub/shrub	Herbaceous
Lost Type	Type A 3.0	Type B 2.0	Type C 0.2
Priority Category	Tertiary 0.5	Tertiary 0.5	Tertiary 0.5
Existing Condition	Fully Functional 2.5	Slightly impaired 2.0	Slightly impaired 2.0
Duration	Over 10 2.0	Over 10 2.0	Over 10 2.0
Dominant Impact	Fill 3.0	Fill 3.0	Fill 3.0
Cumulative Impact	0.8	0.8	0.8
Sum of r Factors	$R_1 = 11.8$	$R_2 = 10.3$	$R_3 = 8.5$
Impacted Area	$A_1 = 6.78$	$A_2 = 4.61$	$A_3 = 4.67$
R x AA=	80.0	47.48	39.70

$$\text{Total Required Credits} = \sum (R \times A) = 167.2$$

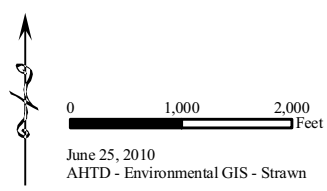
The Middle Ouachita River Mitigation Bank was credited at 3.6 credits per acre, so equivalent acreage ratios are 3.3:1 for the forested wetlands, 2.8:1 for the scrub-shrub wetlands, and 2.4:1 for the herbaceous wetlands.



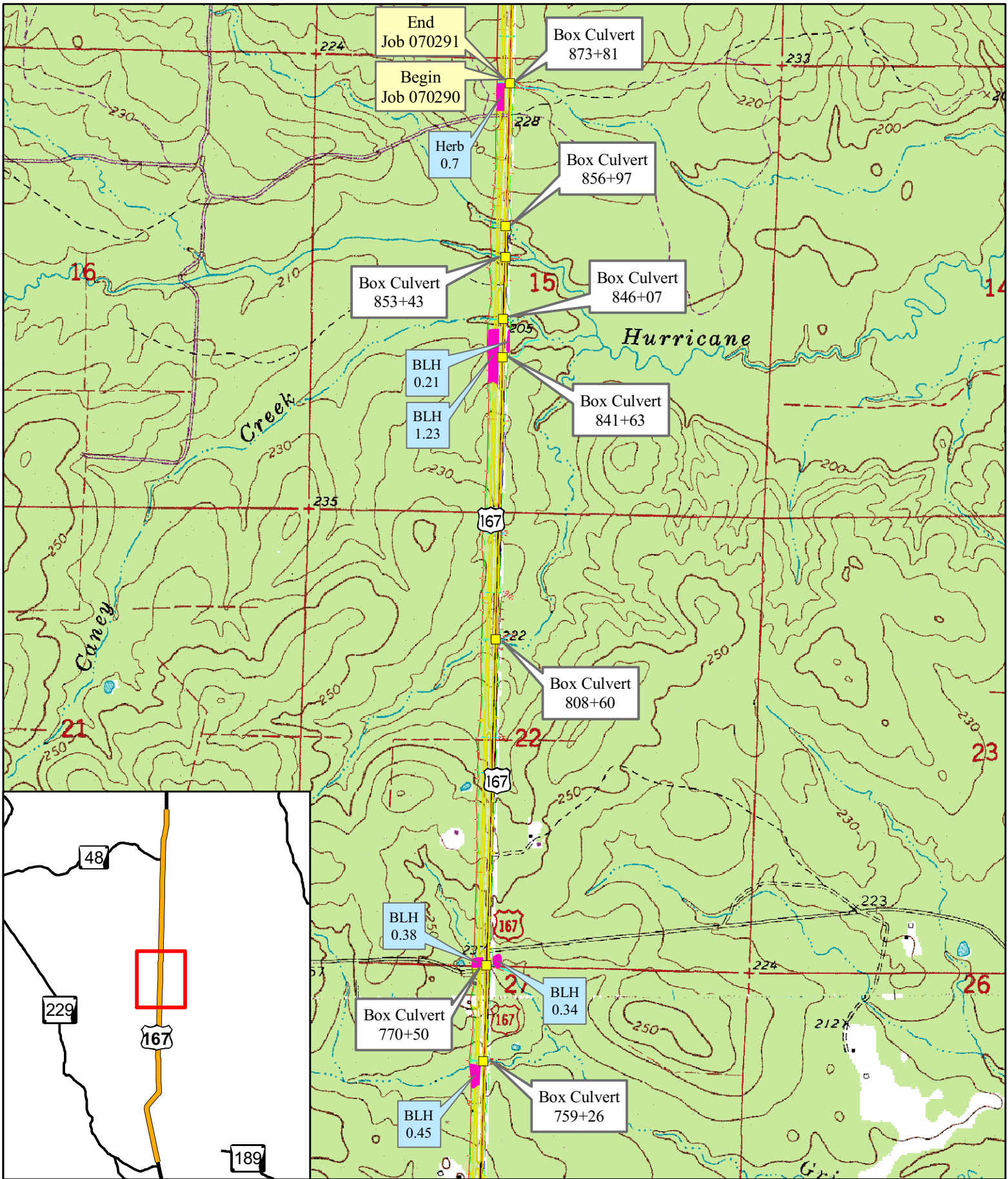
Wetlands and Waters of  
 the U.S. Location Map  
 Job 070321  
 Hwy. 273 - Hwy. 48  
 Highway 167  
 Dallas & Cleveland Counties



Wetlands and Waters of  
 the U.S. Location Map  
 Job 070321  
 Hwy. 273 - Hwy. 48  
 Highway 167  
 Dallas & Cleveland Counties



Bunn 1984 USGS Topographic Map



End  
Job 070291

Box Culvert  
873+81

Begin  
Job 070290

Herb  
0.7

Box Culvert  
856+97

Box Culvert  
853+43

Box Culvert  
846+07

BLH  
0.21

Box Culvert  
841+63

BLH  
1.23

167

Box Culvert  
808+60

167

BLH  
0.38

167

229

167

Box Culvert  
770+50

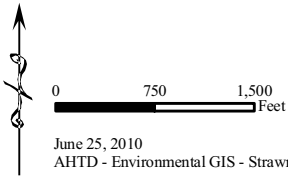
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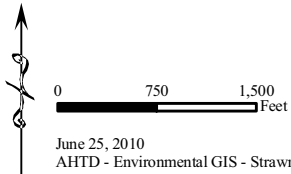
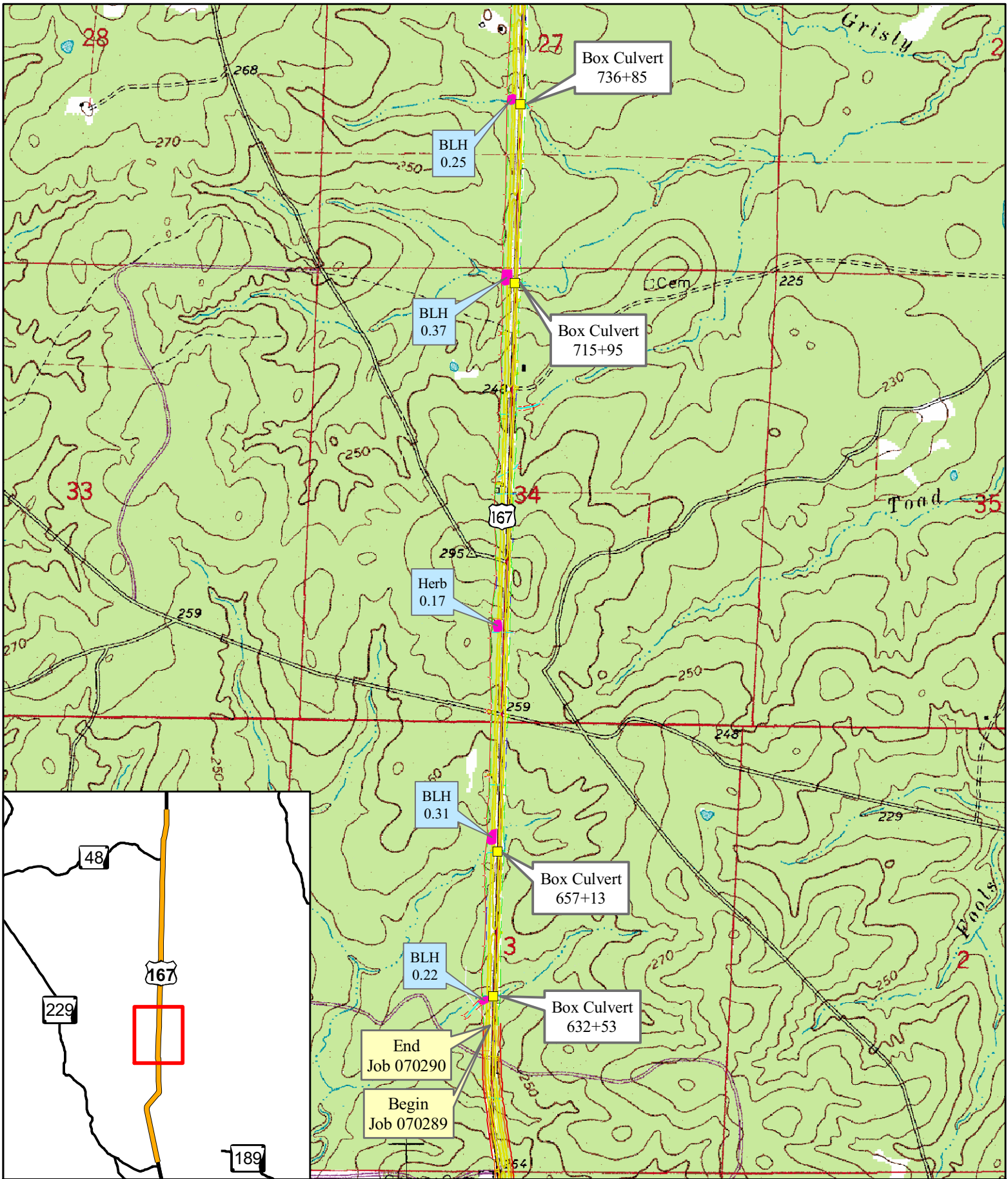
Box Culvert  
759+26

189

Wetlands and Waters of  
the U.S. Location Map  
Job 070321  
Hwy. 273 - Hwy. 48  
Highway 167  
Dallas & Cleveland Counties



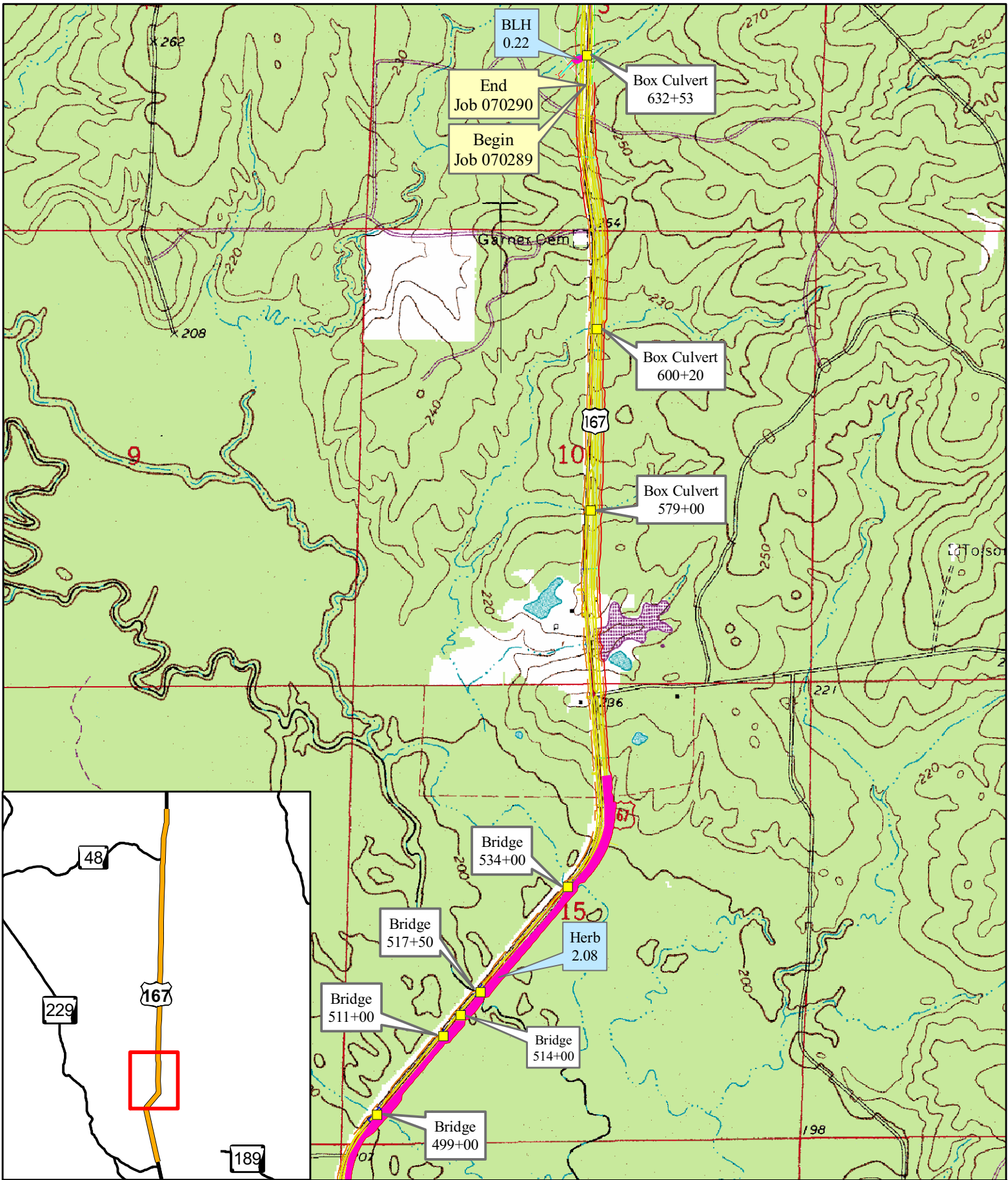
Bunn 1984 USGS Topographic Map  
Ivan 1985 USGS Topographic Map



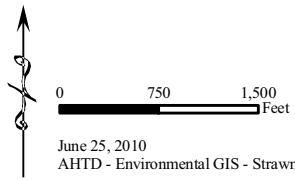
Wetlands and Waters of  
the U.S. Location Map  
Job 070321  
Hwy. 273 - Hwy. 48  
Highway 167  
Dallas & Cleveland Counties

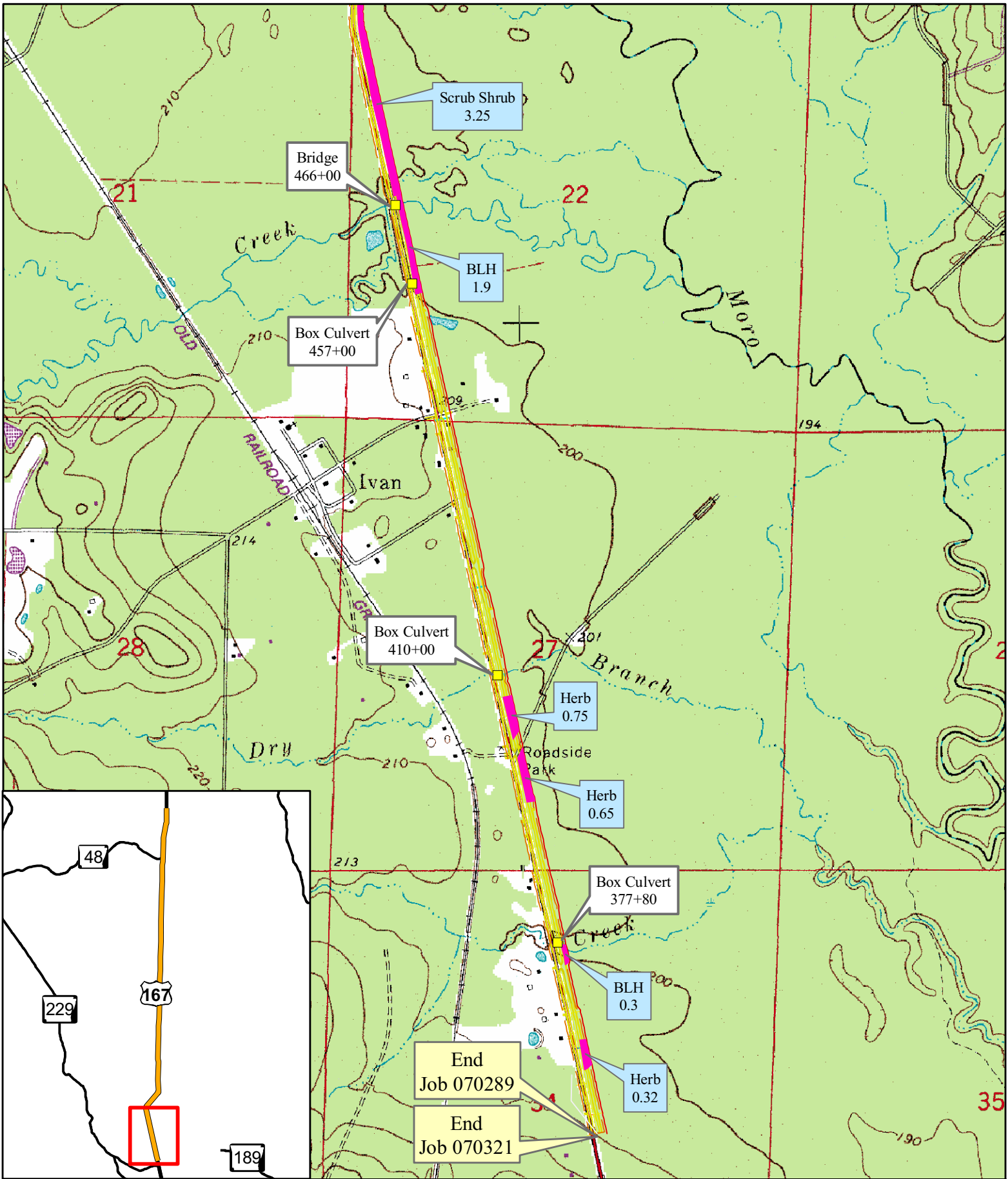
Bunn 1984 USGS Topographic Map  
Ivan 1985 USGS Topographic Map



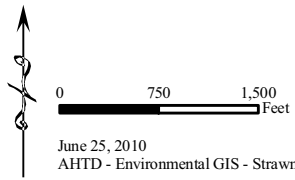


Wetlands and Waters of  
 the U.S. Location Map  
 Job 070321  
 Hwy. 273 - Hwy. 48  
 Highway 167  
 Dallas & Cleveland Counties





Wetlands and Waters of  
 the U.S. Location Map  
 Job 070321  
 Hwy. 273 - Hwy. 48  
 Highway 167  
 Dallas & Cleveland Counties



# PUBLIC INVOLVEMENT MEETING SYNOPSIS

**Job Number 070321**  
**Hwy. 273- Hwy. 48 NEPA Study**  
**Dallas and Cleveland Counties**  
**June 10, 2010**

An open forum public involvement meeting for the Hwy. 273-Hwy.48 NEPA Study was held at the Marks Memorial Church of God in Christ in Fairndale, Arkansas from 4:00-7:00 pm on June 10, 2010. Three proposed construction projects were covered by this meeting, Jobs 070289, 070290, and 070291. 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:

- Display advertisement placed in the Sheridan Headlight on Wednesday, June 2, 2010 and Wednesday, June 9, 2010.
- Public Service Announcement to KBJT/KQEW aired on Monday June 7, 2010 thru Thursday, June 10, 2010.
- Distribution of flyers in the project area.
- Outreach to minority minister letters.

The following information was available for inspection and comment.

- Displays including aerial photographs at a scale of 1 inch equals 922 feet, illustrating the location of the three construction projects..
- Preliminary design layout at a scale of one-inch equal 200 feet.

Handouts for the public included a comment sheet and a small-scale map illustrating the project locations. Copies of the handouts are attached.

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

<b>TABLE 1</b>	
<b>Public Participation</b>	<b>Totals</b>
Attendance at meeting (including AHTD staff)	64
<b>Total comments received</b>	21

*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.

<b>Table 2</b>	
<b>Survey Results</b>	<b>Totals</b>
Supports improvement to Highway 167	13
Opposes improvements to Highway 167	6
Knowledge of any cultural resources	5
Knowledge of any environmental constraints	0
Personal property limitations	1
Suggestions to make project better for community	8
Beneficial impacts due to the proposed project	6
Adverse impacts due to the proposed project	9

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

- Six individuals were concerned about the intersection of Burn McGriff Road and Crossroads. They wanted the intersections realigned.
- Four individuals were concerned about impacts to the churches along the existing highway.
- One individual was concerned about the curves at Moro Creek.

Attachments: Blank comment form  
Small-scale project location map  
Aerial photography displays

RJ       
BP

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT  
(AHTD)**

**CITIZEN COMMENT FORM**

**AHTD JOB NUMBERS 070289, 070290, 070291  
Hwy. 167 Widening  
CLEVELAND, DALLAS AND GRANT COUNTIES**

**LOCATION:  
MARKS MEMORIAL CHURCH OF GOD IN CHRIST  
FELLOWSHIP HALL  
5813 HWY 167 SOUTH  
CARTHAGE, AR  
4:00 – 7:00 P.M.  
THURSDAY, JUNE 10, 2010**

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 Farindale (Hwy. 48) to Hwy. 273? Comment (optional)\_\_\_\_\_

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

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

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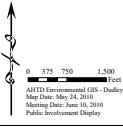
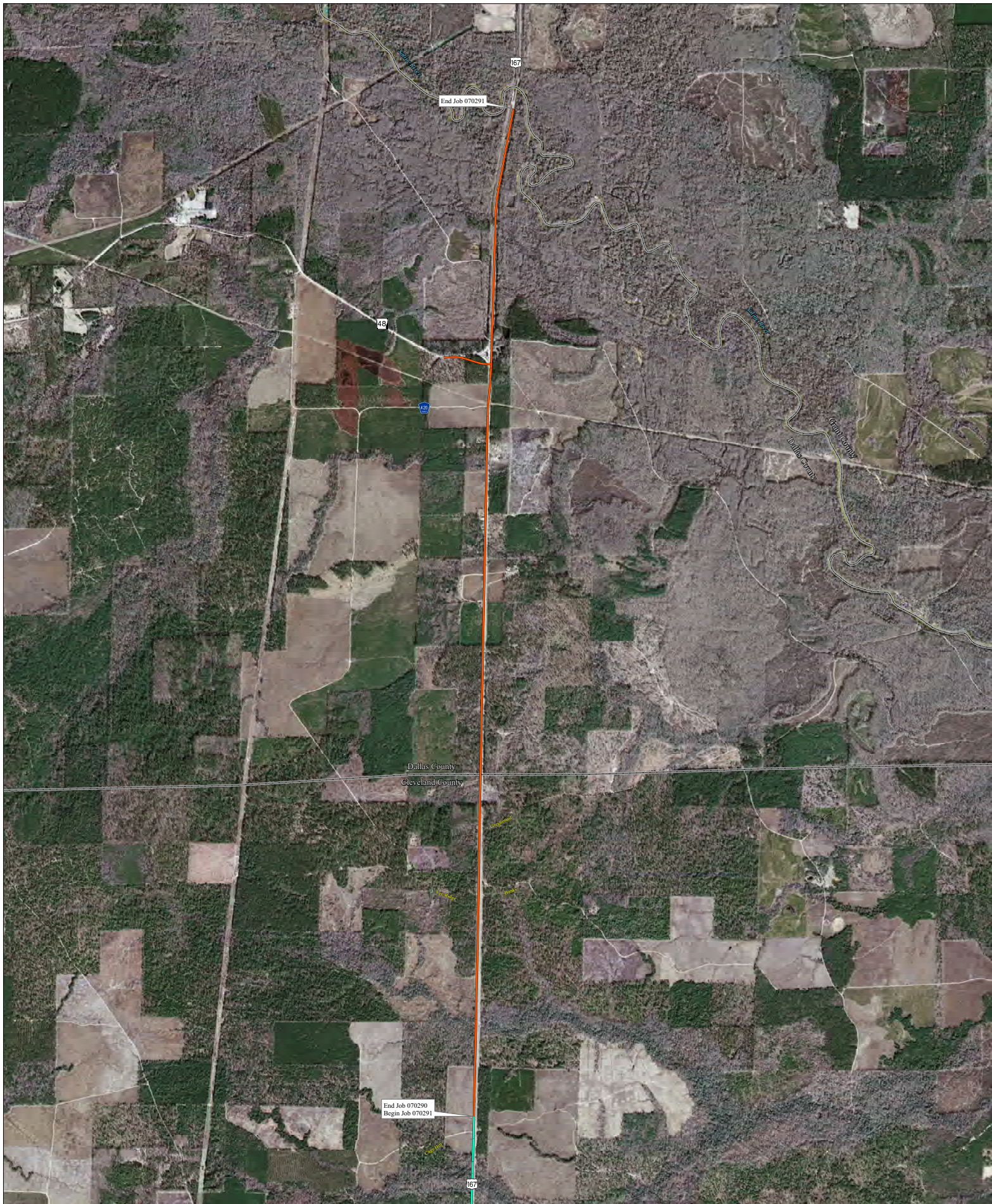
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Does your home or property offer any limitations to the project, such as septic systems, springs or wells that the Department needs to consider in its design? \_\_\_\_\_

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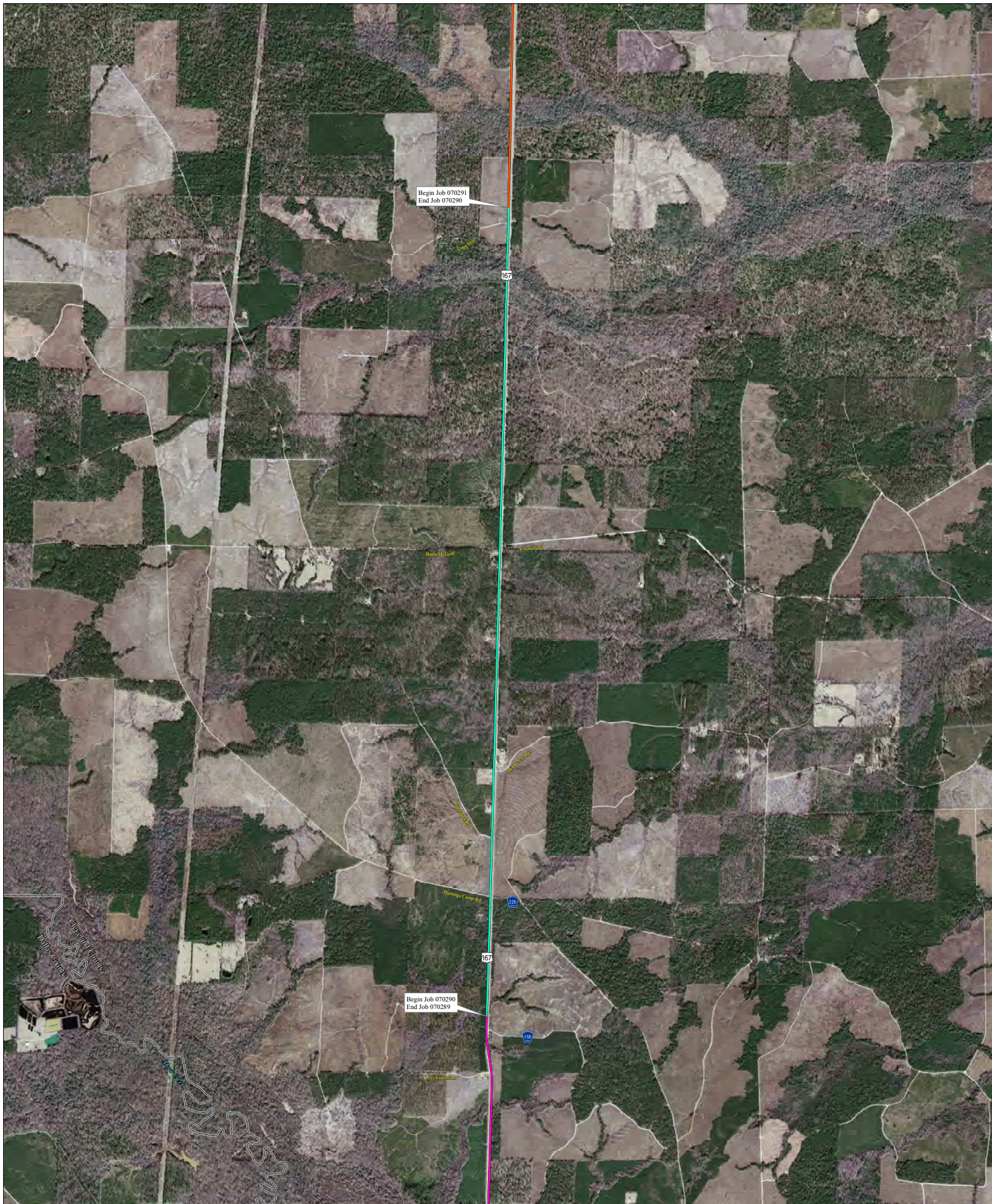


Job 070291  
 Saline River-South  
 Cleveland & Dallas Counties

Preliminary  
 Subject to Revision



Photography date: January 31, 2006



Begin Job 070291  
End Job 070290

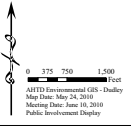
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Job 070290  
Peters Rd. (CR 24)-North  
Cleveland County

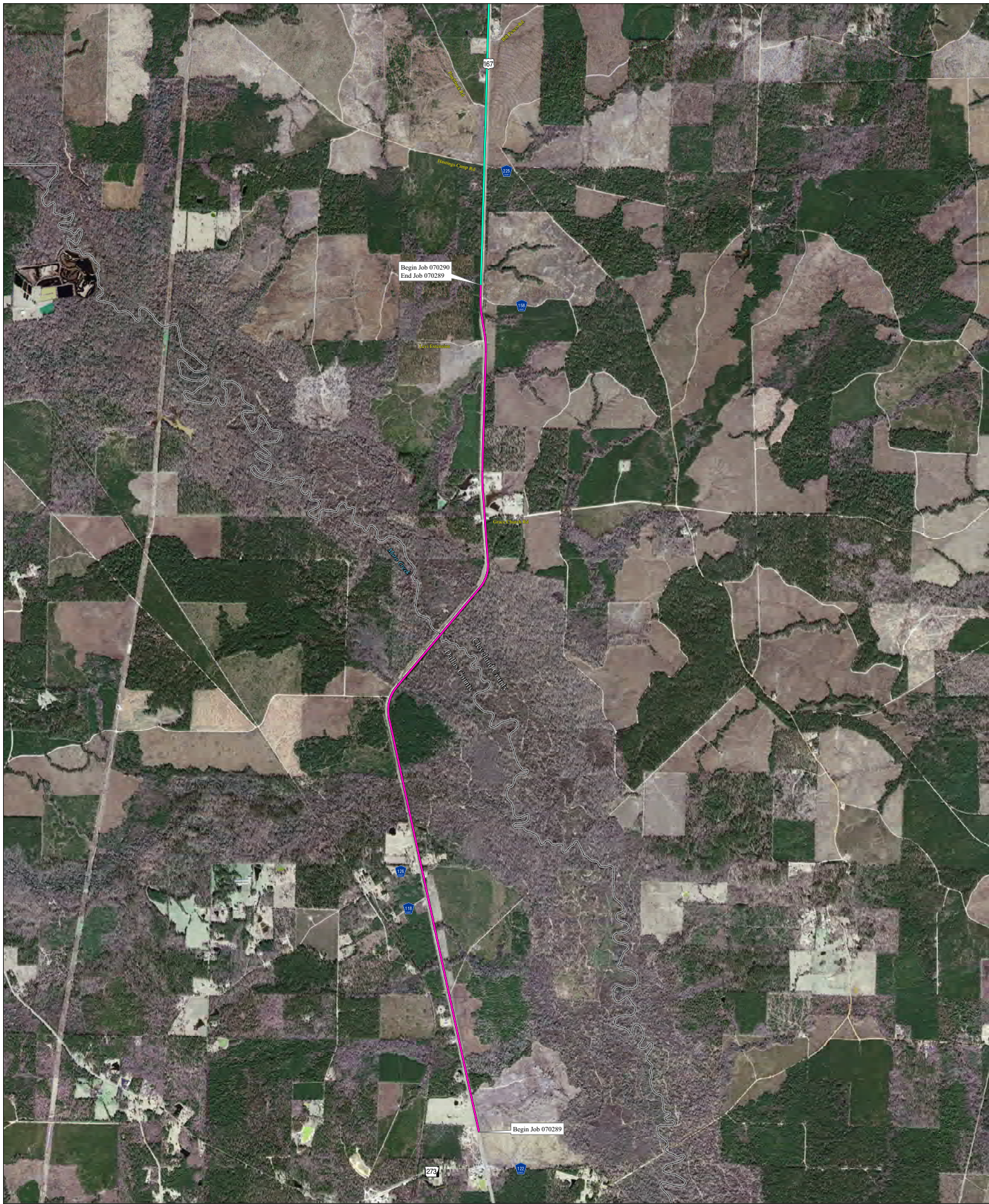
Preliminary  
Subject to Revision

-  Job 070291
-  Job 070290
-  Job 070289

Photography date: January 31, 2006

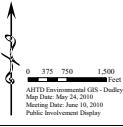






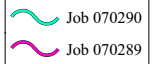
Begin Job 070290  
End Job 070289

Begin Job 070289

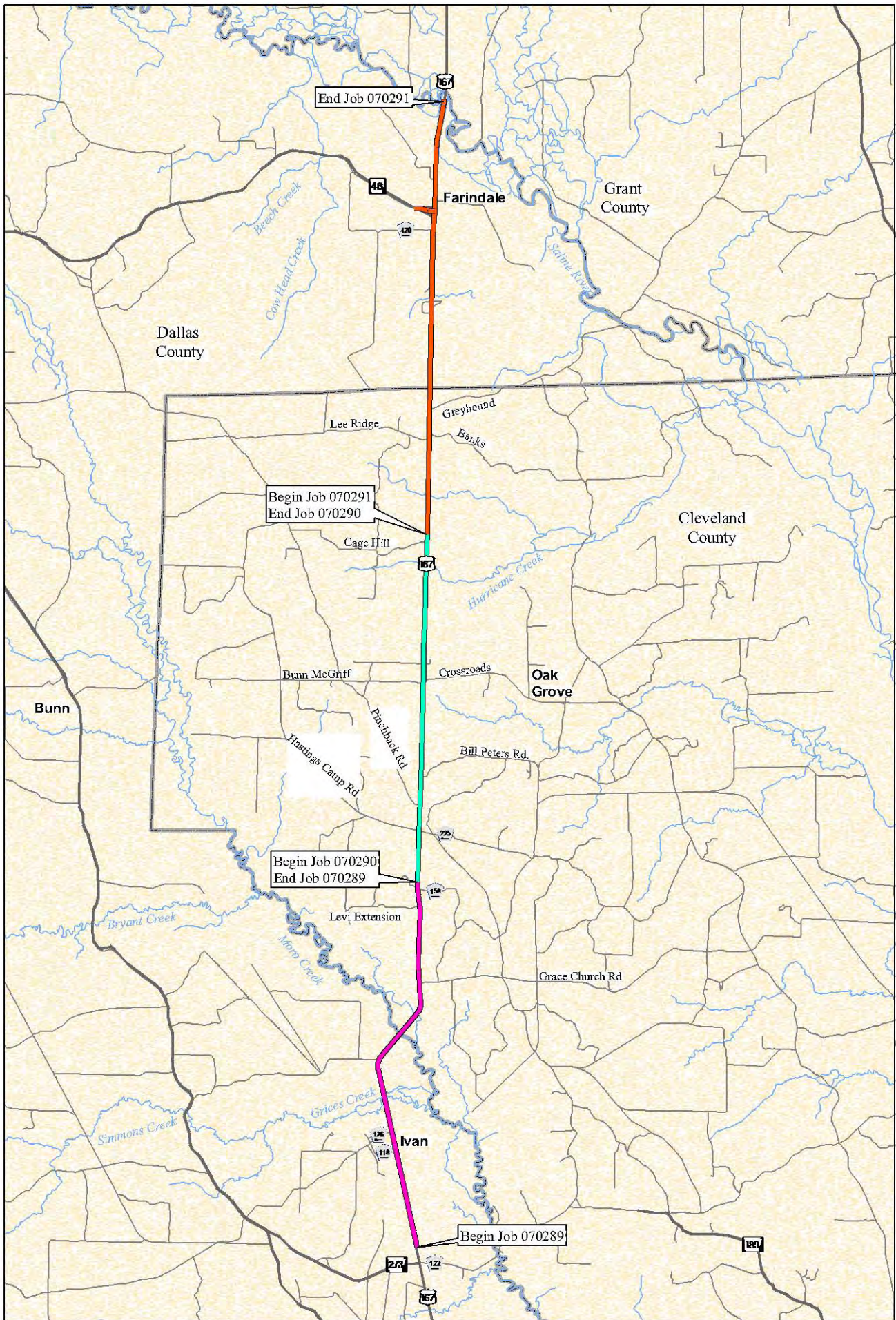


Job 070289  
Hwy. 271 - Peters Rd. (CR 24)  
Dallas & Cleveland Counties

Preliminary  
Subject to Revision



Photography date: January 31, 2006



0 0.25 0.5 1 Mile  
 AHTD Environmental GIS - Dudley  
 Map Date: May 24, 2010  
 Meeting Date: June 10, 2010  
 Public Involvement Handout

Job 070289, Job 070290,  
 & Job 070291  
 Cleveland & Dallas Counties



# AHTD ENVIRONMENTAL IMPACTS ASSESSMENT FORM

AHTD Job Number 070321 FAP Number \_\_\_\_\_

Job Title Hwy 273 - Hwy 48

Environmental Impacts	None	Minor	Significant	Comments
Air Quality	✓			
Construction Impacts		✓		
Cultural Resources	✓			
Economic	✓			
Endangered Species	✓			
Energy Resources	✓			
Environmental Justice	✓			
Fish and Wildlife		✓		
Floodplains	✓			
Forest Service Property	✓			
Hazardous Materials/Landfills	✓			
Land Use Impacts	✓			
Migratory Birds	✓			Bird sp to be included
Navigation/Coast Guard	✓			
Noise Levels	✓			
Prime Farmland		✓		31 acres
Protected Waters	✓			
Public Recreation Lands	✓			
Public Water Supply/WHPA	✓			
Relocates		✓		Four Residential
Section 4(f)/6(f)	✓			
Social	✓			
Underground Storage Tanks	✓			
Visual Impacts	✓			
Stream Relocation		✓		
Water Quality		✓		
Wetlands		✓		16.09 acres Individual permit
Wildlife Refuges	✓			

401 Water Quality Certification Required? yes  
 Short-term Activity Authorization Required? yes  
 Section 404 Permit Required? yes Type Individual

Remarks: W. Ven Highway 167 to Four Lanes from Highway 273 to Highway 48

Signature of Evaluator [Signature] Date July 21 2010

Date Submitted: July 20, 2010

## ROADWAY DESIGN REQUEST (PRELIMINARY)

Job Number 070289 FAP Number \_\_\_\_\_ County Dallas & Cleveland

Job Name Hwy. 273 - Peters Rd. (CR 24) (S)

Design Engineer Jennifer Williams Environmental Staff \_\_\_\_\_

Brief Project Description: Widen a section of Hwy. 167 from two lanes to a four lane divided section with a 60' grass median, 6' inside shoulders, and 8' outside shoulders and widen a section of Hwy. 167 from two lanes to a five lane section with an 11' painted median and 8' shoulders.

### A. Existing Conditions:

1. Roadway Width: Metric: \_\_\_\_\_ English: 38'
2. Shoulder Width: Metric: \_\_\_\_\_ English: 8'
3. Number of Lanes and Width: Metric: \_\_\_\_\_ English: 2 @ 11'
4. Existing Right-of-Way: Metric: \_\_\_\_\_ English: Avg. 120'

### B. Proposed Conditions (Four Lane Section):

1. Roadway Width: Metric: \_\_\_\_\_ English: 2 @ 38' with 60' grass median
2. Shoulder Width: Metric: \_\_\_\_\_ English: 6' Inside, 8' Outside
3. Number of Lanes and Width: Metric: \_\_\_\_\_ English: 2 @ 12'
4. Average Right-of-Way: Metric: \_\_\_\_\_ English: Avg. 210'

### Proposed Conditions (Five Lane Section):

1. Roadway Width: Metric: \_\_\_\_\_ English: 75'
2. Shoulder Width: Metric: \_\_\_\_\_ English: 8'
3. Number of Lanes and Width: Metric: \_\_\_\_\_ English: 4 @ 12' & 1 @ 11'
4. Average Right-of-Way: Metric: \_\_\_\_\_ English: Avg. 210'

### C. Construction Information:

If detour: Where: N/A Length: English \_\_\_\_\_

### D. Design Data:

2012 ADT: 4,200 2032 ADT: 5,200 Trucks 24 %

Design Speed: \_\_\_\_\_ km/h new lanes 60 m.p.h. / existing lanes Avg. running speed

E. Approximate total length of project: \_\_\_\_\_ kilometer(s) 5.15 mile(s)

F. Justification for proposed improvements: Traffic Volume Exceeds Capacity.

G. Total Relocates: 1 Residences: 1 Personal Prop.: 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: July 20, 2010

## ROADWAY DESIGN REQUEST (PRELIMINARY)

Job Number 070291 FAP Number \_\_\_\_\_ County Cleveland & Dallas

Job Name Saline River – South (S)

Design Engineer Jennifer Williams Environmental Staff \_\_\_\_\_

Brief Project Description: Widen a section of Hwy. 167 from two lanes to a four lane divided section with a 60' grass median, 6' inside shoulders, and 8' outside shoulders and widen a section of Hwy. 167 from two lanes to a five lane section with an 11' painted median and 8' shoulders.

### A. Existing Conditions:

1. Roadway Width: Metric: \_\_\_\_\_ English: 38'
2. Shoulder Width: Metric: \_\_\_\_\_ English: 8'
3. Number of Lanes and Width: Metric: \_\_\_\_\_ English: 2 @ 11'
4. Existing Right-of-Way: Metric: \_\_\_\_\_ English: Avg. 120'

### B. Proposed Conditions (Four Lane Section):

1. Roadway Width: Metric: \_\_\_\_\_ English: 2 @ 38' with 60' grass median
2. Shoulder Width: Metric: \_\_\_\_\_ English: 6' Inside, 8' Outside
3. Number of Lanes and Width: Metric: \_\_\_\_\_ English: 2 @ 12'
4. Average Right-of-Way: Metric: \_\_\_\_\_ English: Avg. 210'

### Proposed Conditions (Five Lane Section):

1. Roadway Width: Metric: \_\_\_\_\_ English: 75'
2. Shoulder Width: Metric: \_\_\_\_\_ English: 8'
3. Number of Lanes and Width: Metric: \_\_\_\_\_ English: 4 @ 12' & 1 @ 11'
4. Average Right-of-Way: Metric: \_\_\_\_\_ English: Avg. 210'

### C. Construction Information:

If detour: Where: N/A Length: English \_\_\_\_\_

### D. Design Data:

2012 ADT: 4,200 2032 ADT: 5,200 Trucks 24 %

Design Speed: \_\_\_\_\_ km/h new lanes 60 m.p.h. / existing lanes Avg. running speed

E. Approximate total length of project: \_\_\_\_\_ kilometer(s) 5.86 mile(s)

F. Justification for proposed improvements: Traffic Volume Exceeds Capacity.

G. Total Relocates: 3 Residences: 2 Personal Prop.: 0 Business: 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 \_\_\_\_\_

**BRIDGE INFORMATION - ~~PRELIMINARY~~**

Job Number: 070289 FAP Number: 999 County: Cleveland

Job Name: Hwy. 273-Peters Rd. (CR24)(S)

Design Engineer: JGT Environmental Staff: Fleming

**A. Description of Existing Bridge(s):**

1. Bridge Number: 00788 over Moro Creek Relief
2. Location: Rte. 167 Section: 8 Log Mile: 0.21
3. Length: 142.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.000 ft
4. Type Construction: R.C. Deck Girder
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 76.3

**B. Proposed Improvements:**

1. Length: 182.17 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? \_\_\_\_\_ ; Location: \_\_\_\_\_ ; Width: \_\_\_\_\_ ft

**C. Construction Information:**

1. Location in relation to existing bridge: 24 ft Downstream w/ stage const
2. Superstructure Type: 180' Cont. Prestressed Concrete Girder
3. Span Lengths: 3@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? yes ; 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

Job Number: 070289 FAP Number: 999 County: Dallas & Cleveland  
 Job Name: Hwy. 273-Peters Rd. (CR24)(S)  
 Design Engineer: JGT Environmental Staff: Fleming

**A. Description of Existing Bridge(s):**

1. Bridge Number: 00789 over Moro Creek
2. Location: Rte. 167 Section: 7 Log Mile: 7.52
3. Length: 106.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.000 ft
4. Type Construction: R.C. Deck Girder
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 60.8

**B. Proposed Improvements:**

1. Length: 152.17 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: 24 ft Downstream w/ stage const
2. Superstructure Type: 150' Cont. Prestressed Concrete Girder
3. Span Lengths: 3@50'
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? yes ; 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



Date Submitted to Bridge Division: \_\_\_\_\_ Date Returned to Env. Div. \_\_\_\_\_

**BRIDGE INFORMATION-~~PRELIMINARY~~**

Job Number: 070289 FAP Number: 999 County: Dallas

Job Name: Hwy. 273-Peters Rd. (CR24)(S)

Design Engineer: JGT Environmental Staff: Fleming

**A. Description of Existing Bridge(s):**

1. Bridge Number: 00790 over Moro Creek Relief
2. Location: Rte. 167 Section: 7 Log Mile: 7.45
3. Length: 106.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.000 ft
4. Type Construction: R.C. Deck Girder
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 60.8

**B. Proposed Improvements:**

1. Length: 152.17 ft ; Br. Rdwy. Width: 75.00 ft; Deck Width (Out to Out): 78.170 ft
2. Travel Lanes: No. 4; Width 12 ft *w/11' Painted Median*
3. Shoulder Width: Left: 8.00 ft ; Right: 8.00 ft
4. Sidewalks? \_\_\_\_\_ ; Location: \_\_\_\_\_ ; Width: \_\_\_\_\_ ft

**C. Construction Information:**

1. Location in relation to existing bridge: 24 ft Downstream w/ stage constr.
2. Superstructure Type: 150 Cont. Prestressed Concrete Girder
3. Span Lengths: 3@50'
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? yes ; 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

Job Number: 070289 FAP Number: 999 County: Dallas  
 Job Name: Hwy. 273-Peters Rd. (CR24)(S)  
 Design Engineer: JGT Environmental Staff: Fleming

**A. Description of Existing Bridge(s):**

1. Bridge Number: 00791 over Moro Creek Relief
2. Location: Rte. 167 Section: 7 Log Mile: 7.40
3. Length: 71.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.000 ft
4. Type Construction: R.C. Deck Girder
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 59.0

**B. Proposed Improvements:**

1. Length: 122.17 ft ; Br. Rdwy. Width: 75.00 ft; Deck Width (Out to Out): 78.170 ft
2. Travel Lanes: No. 4; Width 12 ft w/ 11' Painted Medians
3. Shoulder Width: Left: 8.00 ft ; Right: 8.00 ft
4. Sidewalks? \_\_\_\_\_ ; Location: \_\_\_\_\_ ; Width: \_\_\_\_\_ ft

**C. Construction Information:**

1. Location in relation to existing bridge: 24 ft Downstream w/ stage const
2. Superstructure Type: 120' Cont. Prestressed Concrete Girder
3. Span Lengths: 2@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? yes ; 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

Job Number: 070289 FAP Number: 999 County: Dallas  
 Job Name: Hwy. 273-Peters Rd. (CR24)(S)  
 Design Engineer: JGT Environmental Staff: Fleming

**A. Description of Existing Bridge(s):**

1. Bridge Number: 00792 over Moro Creek Relief
2. Location: Rte. 167 Section: 7 Log Mile: 7.16
3. Length: 141.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.000 ft
4. Type Construction: R.C. Deck Girder
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 62.5

**B. Proposed Improvements:**

1. Length: 182.17 ft ; Br. Rdwy. Width: 75.00 ft; Deck Width (Out to Out): 78.170 ft
2. Travel Lanes: No. 4; Width 12 ft w/ 11" Painted Medians
3. Shoulder Width: Left: 8.00 ft ; Right: 8.00 ft
4. Sidewalks? \_\_\_\_\_ ; Location: \_\_\_\_\_ ; Width: \_\_\_\_\_ ft

**C. Construction Information:**

1. Location in relation to existing bridge: 24 ft Downstream w/ stage const
2. Superstructure Type: 180' Cont. Prestressed Concrete Girder
3. Span Lengths: 3@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? yes ; 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

Job Number: 070289 FAP Number: 999 County: Dallas  
 Job Name: Hwy. 273-Peters Rd. (CR24)(S)  
 Design Engineer: JGT Environmental Staff: Fleming

**A. Description of Existing Bridge(s):**

1. Bridge Number: 00793 over Guise Creek
2. Location: Rte. 167 Section: 7 Log Mile: 6.54
3. Length: 141.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.500 ft
4. Type Construction: R.C. Deck Girder
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 70.8

**B. Proposed Improvements:**

1. Length: 182.17 ft ; Br. Rdwy. Width: 38.00 ft; Deck Width (Out to Out): 41.170 ft
2. Travel Lanes: No. 2; Width 12 ft
3. Shoulder Width: Left: 6.00 ft ; Right: 8.00 ft
4. Sidewalks? no ; Location: \_\_\_\_\_ ; Width: \_\_\_\_\_ ft

**C. Construction Information:** *TWIN BRIDGES 84' E TO L BR*

1. Location in relation to existing bridge: CL & 84 ft Downstream
2. Superstructure Type: 180' Cont. Prestressed Concrete Girder
3. Span Lengths: 3@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? no ; 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

Date Submitted to Bridge Division: \_\_\_\_\_ Date Returned to Env. Div. \_\_\_\_\_

**BRIDGE INFORMATION-~~PRELIMINARY~~**

Job Number: 070289 FAP Number: 999 County: Dallas

Job Name: Hwy. 273-Peters Rd. (CR24)(S)

Design Engineer: JGT Environmental Staff: Fleming

**A. Description of Existing Bridge(s):**

1. Bridge Number: 00794 over Guise Creek Relief
2. Location: Rte. 167 Section: 7 Log Mile: 6.36
3. Length: 106.00 ft ; Br. Rdwy. Width: 28.00 ft; Deck Width (Out to Out): 31.500 ft
4. Type Construction: R.C. Deck Girder
5. Deficiencies: Too Narrow
6. HBRRP Eligibility: Qualif. Code NQ ; Suff. Rating 69.5

**B. Proposed Improvements: - TWIN BRIDGES 84' CL TO E BR**

1. Length: 152.17 ft ; Br. Rdwy. Width: 38.00 ft; Deck Width (Out to Out): 41.170 ft
2. Travel Lanes: No. 2; Width 12 ft
3. Shoulder Width: Left: 6.00 ft ; Right: 8.00 ft
4. Sidewalks? no ; Location: \_\_\_\_\_ ; Width: \_\_\_\_\_ ft

**C. Construction Information:**

1. Location in relation to existing bridge: CL & 84 ft Downstream
2. Superstructure Type: 150' Cont. Prestressed Concrete Girder
3. Span Lengths: 3@50'
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? no ; 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