


**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT**

**INTER OFFICE MEMORANDUM**

**June 15, 2017**

**TO:** Master Files

**FROM:** John Fleming, Division Head, Environmental Division 

**SUBJECT:** AHTD Job Number 110644  
FAP Number NHPP-0019(41)  
Drainage Ditch Str. & Apprs. (S)  
Bridge Number 02569  
Cross County  
Tier 2 Categorical Exclusion

The Environmental Division has reviewed the referenced project and it falls within the definition of a Tier 2 Categorical Exclusion under 23 Code of Federal Regulations, Section 771.117, and the AHTD/FHWA Memorandum of Agreement on the processing of Categorical Exclusions. A public hearing will not be offered for this project.

The purpose of this project is to replace a weight restricted bridge with a box culvert on a drainage ditch on Highway 75 in Cross County, Arkansas. Highway 75 is a detour route for Interstate 55. The total length of the project is approximately 0.032 mile. A project location map is attached.

Highway 75 consists of two 11-foot paved travel lanes with 3-foot shoulders. The existing right of way width is approximately 80 feet.

The existing 41' x 27' bridge (No. 02569) consists of one span composed of steel girders with a deck supported by timber pile bents. The bridge has a qualifying code of Not Deficient (ND) and a sufficiency rating of 58.5.

The bridge will be replaced on existing location with a triple 9' x 6' x 84' reinforced concrete box culvert. The new approaches will consist of two 11-foot wide paved travel lanes with 4-foot wide shoulders. A temporary detour west of the alignment will be

utilized during construction. The new right of way width will be 185 feet. Approximately 0.55 acre of additional right of way and 0.97 acre of temporary construction easement will be required for this project.

Design data for this project is as follows:

Design Year	Average Daily Traffic	Percent Trucks	Design Speed
2018	540	4	55 mph
2038	650	4	55 mph

No environmental justice issues, hazardous waste deposits, prime farmland, relocatees, protected waters, endangered species, or underground storage tanks are associated with this project. Cultural resource impacts are not anticipated; concurrence from the State Historic Preservation Officer is attached.

Wetland impacts are estimated to be 0.3 acre, and impacts to waters of the United States are estimated to be less than 0.5 acre as well. Compensatory mitigation will be provided at the Glaise Creek Mitigation Bank. Construction should be allowed under the terms of a Nationwide 14 Section 404 Clean Water Act Permit for Linear Transportation Projects as defined in the Federal Register 82(4):1860-2008.

A floodplain permit will be required. Cross County participates in the National Flood Insurance Program. All of the floodplain encroachments within this highway construction project will be designed to comply with the county's local flood damage prevention ordinance. The project lies within the Zone A, Special Flood Hazard Area. The final project design will be reviewed to confirm that the design is adequate and that the potential risk to life and property are minimized. Adjacent properties should not be impacted nor have a greater flood risk than existed before construction of the project. None of the encroachments will constitute a significant floodplain encroachment or a significant risk to property or life.

Based upon the AHTD's *Policy on Highway Traffic Noise Abatement*, a noise analysis is not required for this project. The project meets the criteria for a Type III project established in 23 CFR 772. Therefore, the project requires no analysis for highway traffic noise impacts. Type III projects do not involve added capacity, construction of new through lanes or auxiliary lanes, changes in the horizontal or vertical alignment of the roadway, or exposure of noise sensitive land uses to a new or existing highway

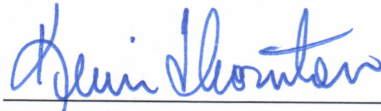
AHTD Job Number 110644  
Tier 2 Categorical Exclusion  
Page 3 of 3

noise source. AHTD acknowledges that a noise analysis is required if changes to the proposed project result in reclassification to a Type I project.

Attachments:

Project Location Map  
SHPO Clearance  
Environmental Study Checklist  
Design Sheet

Approved:

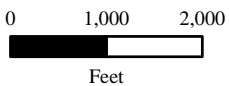
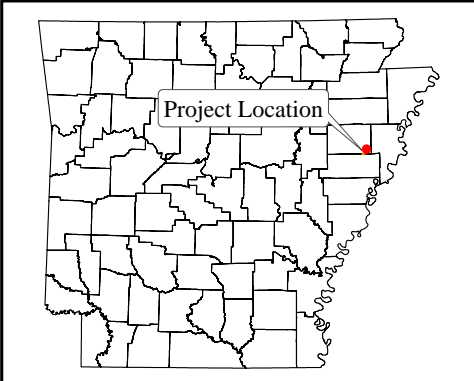
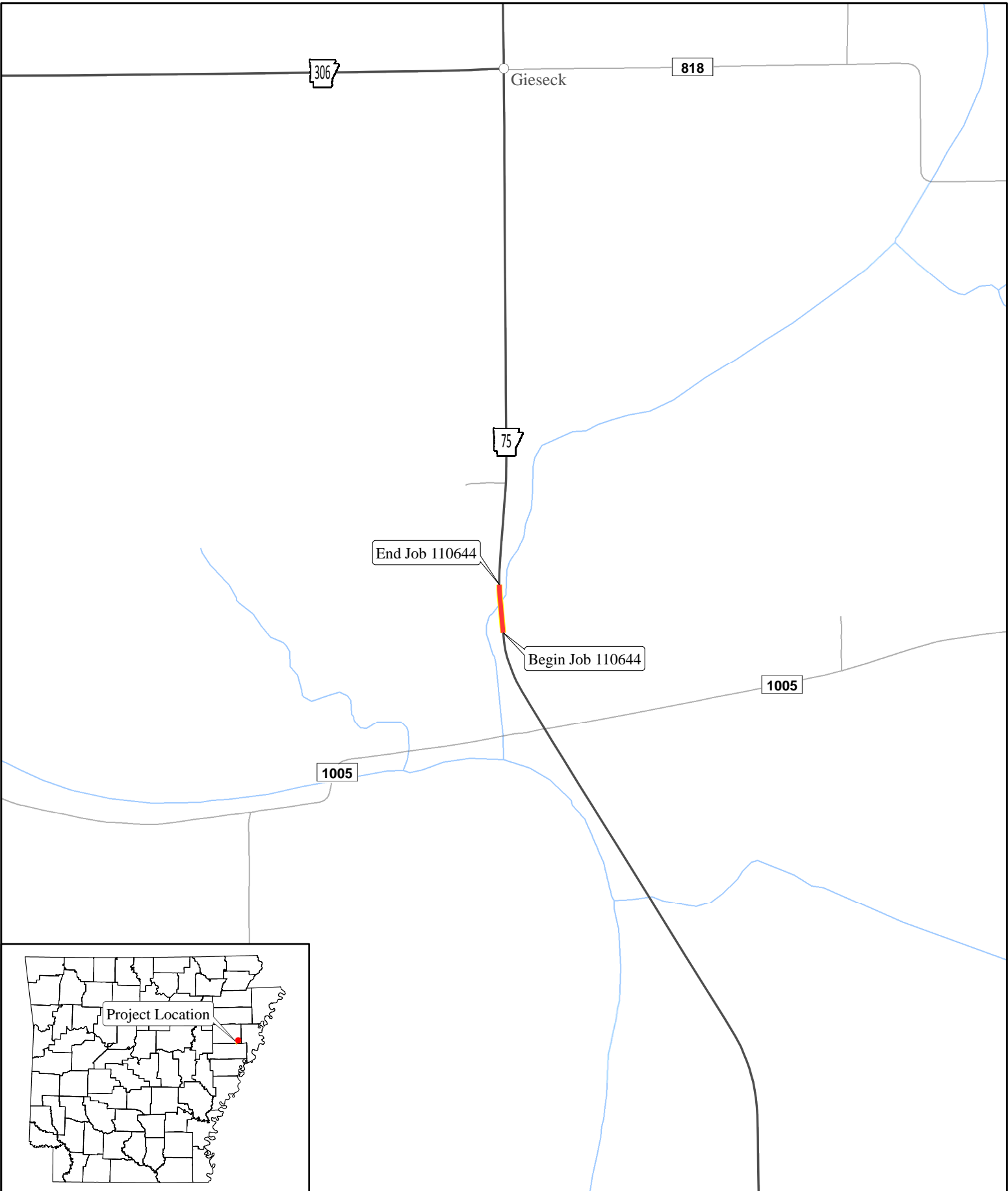


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Kevin Thornton  
Assistant Chief Engineer-Planning

JF:KS:fc

c: Program Management  
Right of Way  
Roadway Design  
District 1  
FHWA  
Master File



AHTD-Environmental GIS-Hopkins  
May 19, 2017

Job 110644  
Drainage Ditch Str. & Apprs.  
(Hwy. 75)  
Cross County

 Project Location



THE DEPARTMENT OF ARKANSAS  
**HERITAGE**

Asa Hutchinson  
Governor

Stacy Hurst  
Director

Arkansas Arts Council

Arkansas Natural  
Heritage Commission

Arkansas State Archives

Delta Cultural Center

Historic Arkansas Museum

Mosaic Templars  
Cultural Center

Old State House Museum

June 1, 2017

Mr. John Fleming  
Division Head  
Environmental Division  
Arkansas State Highway and Transportation Department  
PO Box 2261  
Little Rock, AR 72203-2261

RECEIVED  
AHTD  
JUN 06 2017  
ENVIRONMENTAL  
DIVISION

RE: Cross County – General  
Section 106 Review – FHWA  
Request for Technical Assistance  
AHTD Job Number 110644  
Drainage Ditch Strs. & Apprs. (S)  
AHPP Tracking Number 98437

Dear Mr. Fleming:

This letter is written in response to your inquiry regarding properties of archeological, architectural, or historical significance in the area of the proposed referenced project. The staff of the Arkansas Historic Preservation Program has reviewed the documents for the structures included in your letter of May 31, 2017.

We concur that the bridge (AHTD Bridge Number 2569) to be replaced is not eligible for inclusion in the National Register of Historic Places (NRHP) and that the undertaking will have no effect on historic properties.

Tribes that have expressed an interest in the area include the Chickasaw Nation (Ms. Karen Brunso), the Choctaw Nation of Oklahoma (Dr. Ian Thompson), the Osage Nation (Dr. Andrea Hunter), the Quapaw Tribe of Oklahoma (Mr. Everett Bandy), and the Shawnee Tribe of Oklahoma (Ms. Kim Jumper). We recommend that they be consulted in accordance with 36 CFR § 800.2 (c) (2).

Once the undertaking is further along in the planning stages, we look forward to reviewing the proposed project. If you should have any questions or comments, please do not hesitate to contact Theresa Russell of my staff at (501)-324-9357.

Sincerely,

Marian Boyd  
Interim Director, AHPP

cc: Mr. Randal Looney, Federal Highway Administration  
Dr. Andrea Hunter, Osage Nation  
Dr. Ann Early, Arkansas Archeological Survey



ARKANSAS HISTORIC  
PRESERVATION PROGRAM



1100 North Street  
Little Rock, AR 72201

(501) 324-9880  
fax: (501) 324-9184  
tdd: 711

e-mail:

[info@arkansaspreservation.org](mailto:info@arkansaspreservation.org)

website:

[www.arkansaspreservation.com](http://www.arkansaspreservation.com)

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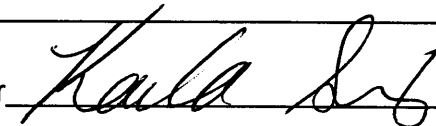
# AHTD ENVIRONMENTAL IMPACTS ASSESSMENT FORM

AHTD Job Number 110644 FAP Number NHPP-0019(41)  
 Job Title Drainage Ditch Str. & Apprs. (S)

Environmental Impacts	None	Minor	Significant	Comments
Air Quality	X			
Construction Impacts		X		Temporary during construction
Cultural Resources	X			
Economic	X			
Endangered Species	X			
Energy Resources	X			
Environmental Justice/Title VI	X			
Fish and Wildlife		X		Temporary during construction
Floodplains		X		
Forest Service Property	X			
Hazardous Materials/Landfills	X			
Land Use Impacts	X			
Migratory Birds	X			
Navigation/Coast Guard	X			
Noise Levels	X			
Prime Farmland	X			
Protected Waters	X			
Public Recreation Lands	X			
Public Water Supply/WHPA	X			
Relocatees	X			
Section 4(f)/6(f)	X			
Social	X			
Underground Storage Tanks	X			
Visual Impacts	X			
Stream Impacts		X		Nationwide 14 Permit
Water Quality		X		Temporary during construction
Wetlands		X		
Wildlife Refuges	X			

Section 401 Water Quality Certification Required? No  
 Short-term Activity Authorization Required? Yes  
 Section 404 Permit Required? Yes Type Nationwide 14

Remarks: \_\_\_\_\_

Signature of Evaluator  Date 6/7/2017

**ROADWAY DESIGN REQUEST**Job Number 110644 FAP No. NHPP-0019(41) County CrossJob Name Drainage Ditch Str. & Apprs. (S)Design Engineer Primary Design Environmental Staff \_\_\_\_\_Brief Project Description To replace a bridge structure with a Triple R.C. Box Culvert

## A. Existing Conditions:

Roadway Width: 22' Shoulder Type/Width: 3' Asph.Number of Lanes and Width: 2-11' Existing Right-of-Way: 80'

Sidewalks? \_\_\_\_\_ Location: \_\_\_\_\_ Width: \_\_\_\_\_

Bike Lanes? \_\_\_\_\_ Location: \_\_\_\_\_ Width: \_\_\_\_\_

## B. Proposed Conditions:

Roadway Width: 22' Shoulder Type/Width: 4' Asph.Number of Lanes and Width: 2- 11' Proposed Right-of-Way: 185'

Sidewalks? \_\_\_\_\_ Location: \_\_\_\_\_ Width: \_\_\_\_\_

Bike Lanes? \_\_\_\_\_ Location: \_\_\_\_\_ Width: \_\_\_\_\_

## C. Construction Information:

If detour: Where: Lt. side of C. L. Length: 855'

## D. Design Traffic Data:

2018 ADT: 540 2038 ADT: 650 % Trucks: 4Design Speed: 55 m.p.h.E. Approximate total length of project: 0.032 mile(s)F. Justification for proposed improvements: Deficient bridge structureG. Total Relocatees: N/A Residences: N/A Businesses: N/AH. Have you coordinated with any outside agencies (e.g., FHWA, City, County, etc.)? NO

Agency/Official	Person Contacted	Date



REPLY TO  
ATTENTION OF

**DEPARTMENT OF THE ARMY**  
LITTLE ROCK DISTRICT, CORPS OF ENGINEERS  
POST OFFICE BOX 867  
LITTLE ROCK, ARKANSAS 72203-0867  
www.swl.usace.army.mil/

March 21, 2018

Regulatory Division

**NATIONWIDE PERMIT NO. MVM 2018-00072**

Mr. John Fleming  
Division Head, Environmental Division  
Arkansas Department of Transportation  
PO Box 2261  
Little Rock, Arkansas 72203-2261

Dear Mr. Fleming:

Please refer to your recent request concerning Department of the Army permit requirements pursuant to Section 404 of the Clean Water Act. You requested authorization for the placement of dredged and fill material in waters of the United States associated with replacing a bridge over an unnamed tributary to Little Bivens Bayou and upgrading the approaches. The bridge will be replaced with a triple box culvert on existing location and the approaches will be upgraded to two 11-foot-wide travel lanes with 4-foot-wide shoulders. A temporary detour road will be constructed 85 feet downstream from the existing bridge. Less than 300 linear feet and 0.1 acres of the tributary will be impacted. The project will adversely impact approximately 0.34 acres of wetlands. There are no endangered species or cultural resources impacts. The project is located on State Highway 75, approximately five miles south of the City of Parkin, in section 9, T. 6 N., R. 5 E., Cross County, Arkansas. A vicinity map, project location map, wetlands impact map and wetlands credits worksheet are enclosed.

The proposed activities are authorized by Department of the Army Nationwide Permit (NWP) **No. 14** (copy enclosed), provided that the following **Special Condition** and General Conditions therein are met. For your convenience, we have highlighted the General Conditions of the NWP that are the most pertinent to your project. You should become familiar with the conditions and maintain a copy of the permit at the worksite for ready reference. If changes are proposed in the design or location of the project, you should submit revised plans to this office for approval before construction of the change begins.

**Special Condition:**

**The ArDOT agrees to mitigate for the adverse impacts to 0.34 acres of wetlands with 3.5 wetland credits at the Glaise Creek Wetland Mitigation Bank located near Worden, Arkansas. The ArDOT will provide documentation of the mitigation bank**



**transaction to the U.S. Army Corps of Engineers Little Rock District Transportation Program Manager.**

Please pay particular attention to General Condition No. 12 which stipulates that appropriate erosion and siltation controls be used during construction and all exposed soil be permanently stabilized. Erosion control measures must be implemented before, during and after construction.

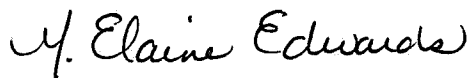
Also, in order to fully comply with the conditions of the NWP, you must submit the enclosed compliance certification within 30 days of completion of the project. This is required pursuant to General Condition No. 30 of the permit.

For your information, we have enclosed a copy of the Arkansas Department of Environmental Quality (ADEQ) Section 401 Water Quality Certification conditions, which are conditions of your permit. If you have any questions concerning compliance with the conditions of the 401 certification, you should contact Ms. Lazendra Hairston at the ADEQ, Water Division, 5301 Northshore Drive, North Little Rock, Arkansas 72118, telephone (501) 682-0645.

The NWP determination will be valid until March 18, 2022. If NWP **No. 14** is modified, suspended, or revoked during this period, your project may not be authorized unless you have begun or are under contract to begin the project. If work has started or the work is under contract, you would then have twelve (12) months to complete the work.

Your cooperation in the Regulatory Program is appreciated. If you have any additional questions about this permit or any of its provisions, please contact Mr. Johnny McLean at (501) 324-5295 and refer to Permit No. **MVM 2018-00072, Unnamed Tributary Structure and Approaches south of Parkin (ArDOT Project No. 110644).**

Sincerely,



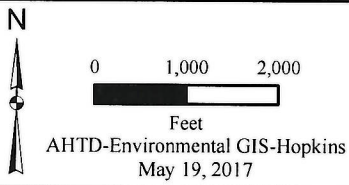
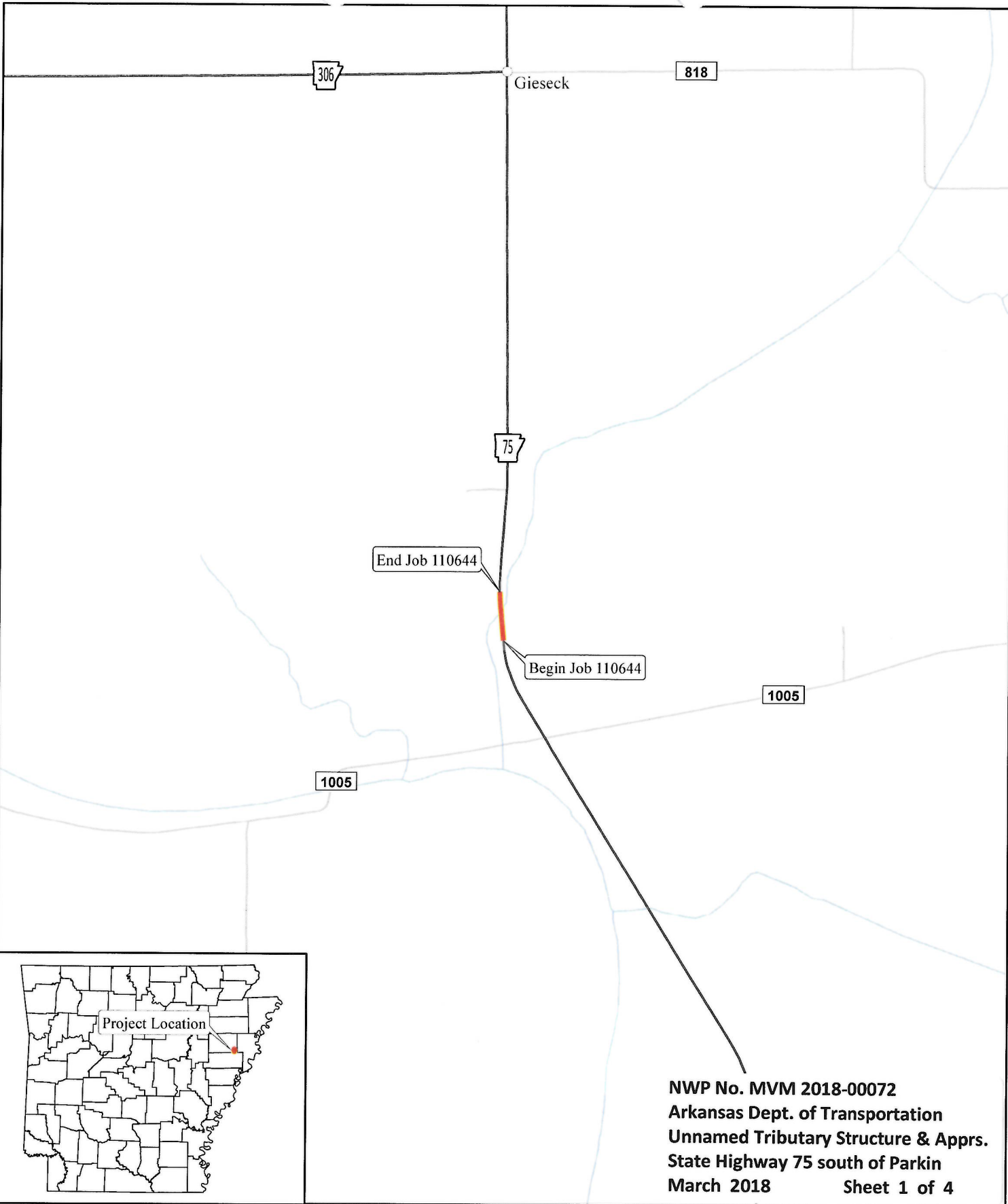
for Sarah Chitwood  
Chief, Regulatory Evaluation Branch

Copy Furnished:

Mr. Roger Allan, w/cy dwgs

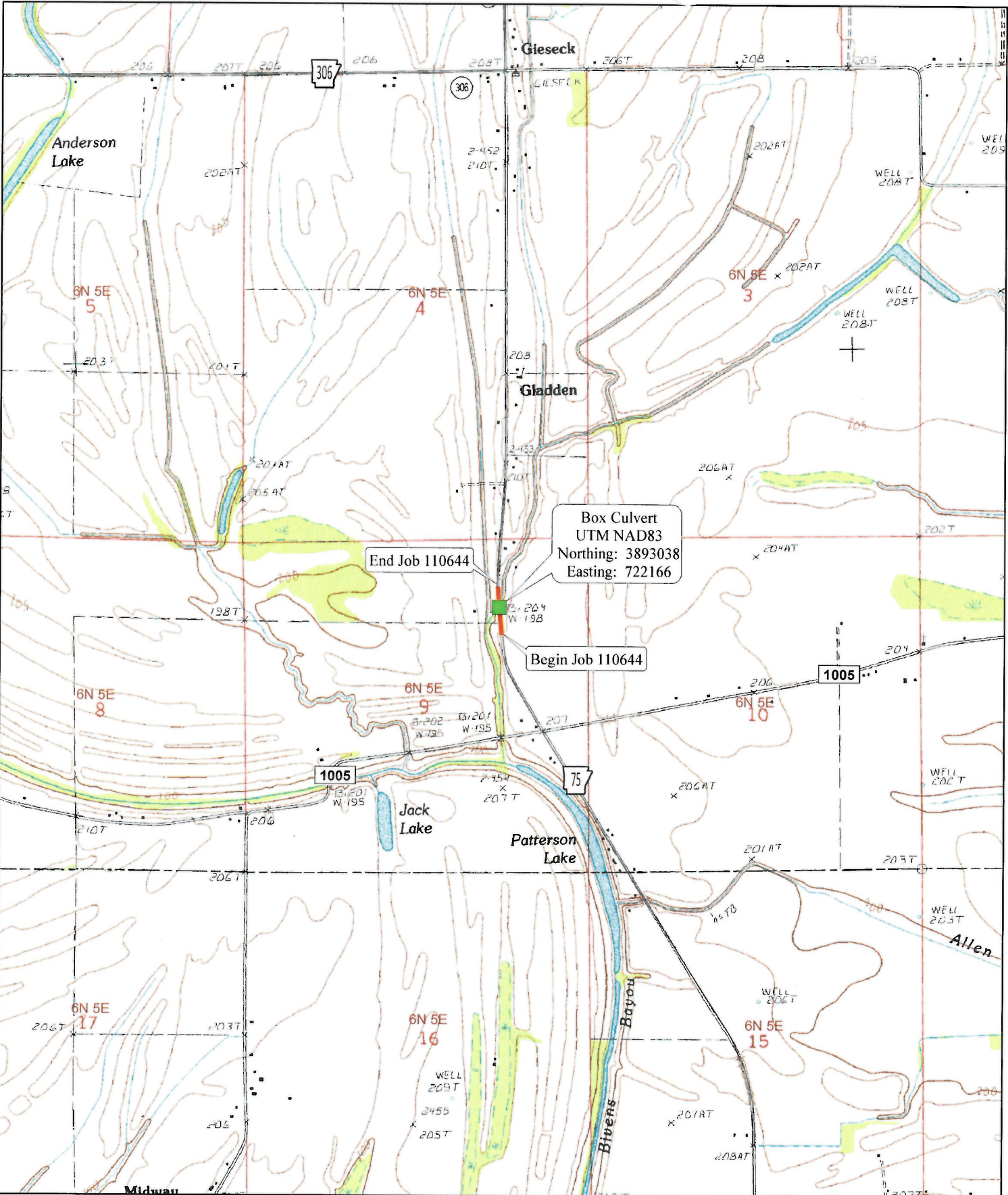
Ms. Lazendra Hairston, Arkansas Department of Environmental Quality, w/cy dwgs



Mr. Lindsey Lewis, U.S. Fish & Wildlife Service, w/cy dwgs




Job 110644  
 Drainage Ditch Str. & Apprs.  
 (Hwy. 75)  
 Cross County

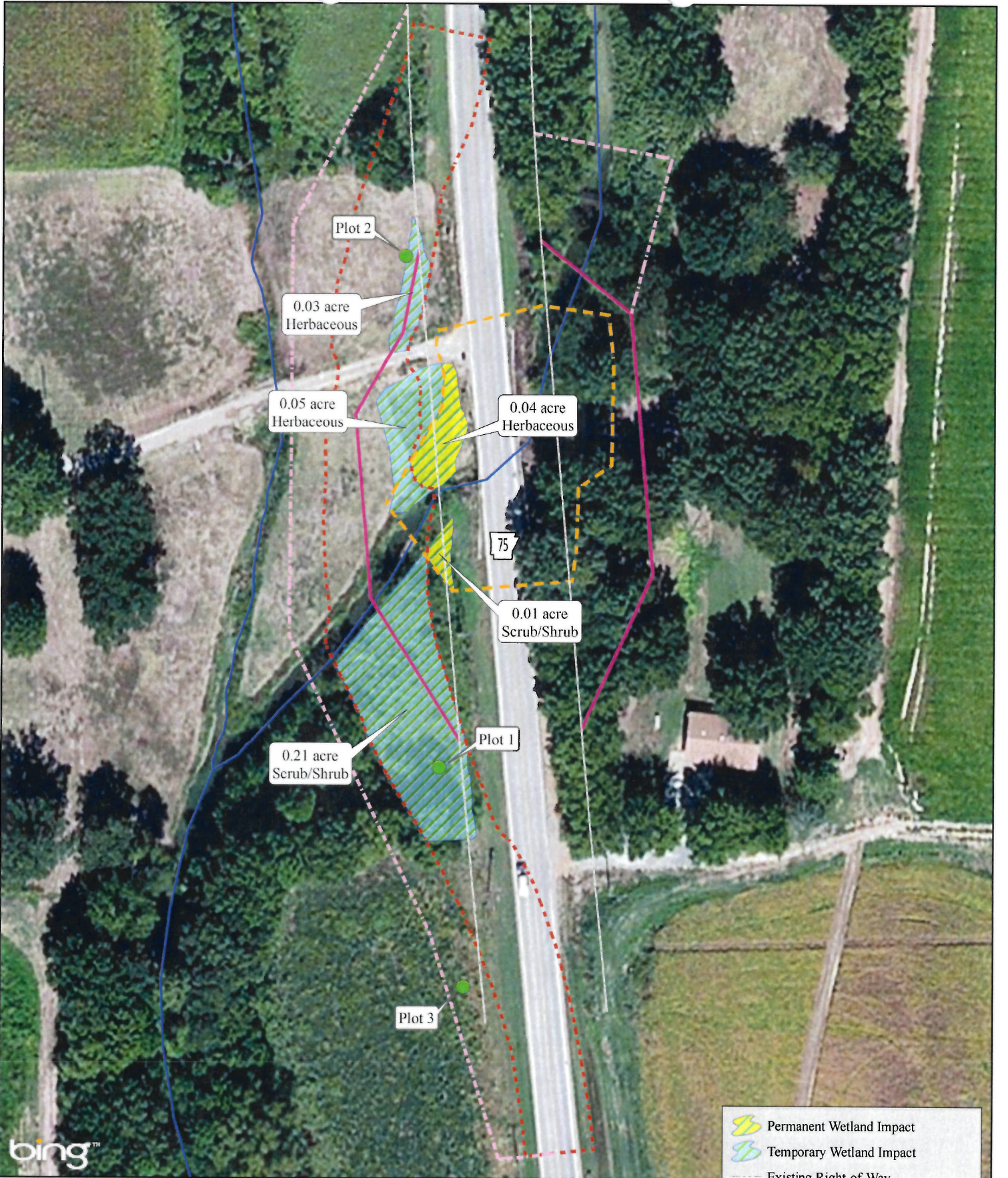
Project Location




  
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 Feet
   
 ArDOT-Environmental GIS-Hopkins
   
 July 6, 2017

Job 110644  
 Drainage Ditch Str. & Apprs.  
 (Hwy. 75)  
 Cross County

**Sheet 2 of 4**
  
 Project Location
   
 USGS Topographic Map
   
 Gieseck 1984



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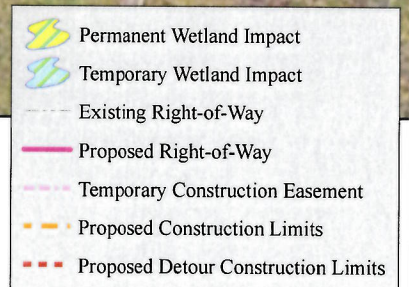


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Feet

ArDOT-Environmental GIS-Hopkins  
July 6, 2017

Job 110644  
Drainage Ditch Str. & Apprs.  
(Hwy. 75)  
Cross County

Sheet 3 of 4



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 x $\sum AA_i$					
Location	On Site 0.0			Off Site 3.0		

REQUIRED MITIGATION CREDITS WORKSHEET

Factor	SS	Herb temp	Herb perm	Area 4	Area 5	Area 6
Lost Type	2.0	0.2	.2			
Priority Category	0.5	0.5	0.5			
Existing Condition	2.0	2.0	2.0			
Duration	0.2	0.2	2.0			
Dominant Impact	3.0	3.0	3.0			
Cumulative Impact	0	0	0			
Location	3.0	3.0	3.0			
Sum of r Factors	R <sub>1</sub> =10.7	R <sub>2</sub> =8.9	R <sub>3</sub> =10.7	R <sub>4</sub> =	R <sub>5</sub> =	R <sub>6</sub> =
Impacted Area	AA <sub>1</sub> =0.22	AA <sub>2</sub> =0.08	AA <sub>3</sub> =0.04	AA <sub>4</sub> =	AA <sub>5</sub> =	AA <sub>6</sub> =
R x AA=	2.354	0.712	0.428			

**Total Required Credits =  $\sum (R \times AA) = \underline{3.495}$**

The average credits per acre at Glaise Creek Mitigation Area is 3.5. To calculate acres required divide credits required by 3.5. To calculate equivalent acreage ratio divide acres required by acres impacted.



**MAR 16 2017**

Colonel Robert G. Dixon  
District Commander  
U.S. Army Corps of Engineers  
P.O. Box 867  
Little Rock, Arkansas 72203-0867

RE: Public Notice: Re-issuance of Nationwide Permits

Dear Colonel Dixon:

The Arkansas Department of Environmental Quality (ADEQ) has completed its review of the above referenced public notice for re-issuance of the U.S. Army Corps of Engineers Nationwide Permits (NWP) for the State of Arkansas.

ADEQ has determined that there is a reasonable assurance that the activities covered under most these NWPs will be conducted in a manner which, according to the Arkansas Pollution Control and Ecology Commission's Regulation No.2, will not physically alter a significant segment of the waterbody and will not violate the water quality criteria.

Therefore, pursuant to §401(a)(1) of the Clean Water Act, the ADEQ hereby issues water quality certification for all NWPs with the exception of NWPs 14, 29, and 43, contingent upon the following conditions:

- 1) An individual water quality certification request must be submitted to ADEQ for Activities which may impact Extraordinary Resource Waters, Ecologically Sensitive Waterbodies, and Natural Scenic Waterways and their tributaries (within 1 mile) as defined in Regulation No. 2, Water Quality Standards.
- 2) The applicant shall contact ADEQ to determine if a Short Term Activity Authorization (STAA) is needed when performing work in the wetted area of any waterbody. More information can be obtained by contacting the Water Division Planning Section of ADEQ at 501-682-0946.
- 3) The applicant shall implement all practicable best management practices (BMPs) to avoid excessive impacts of sedimentation and turbidity to the surface waters.
- 4) The applicant will take all reasonable measures to prevent the spillage or leakage of any chemicals, oil, grease, gasoline, diesel, or other fuels. In the unlikely event such spillage or leakage occurs, the applicant must contact ADEQ immediately.
- 5) The applicant shall limit construction to low flow periods as much as possible to minimize adverse effects on water quality and aquatic life.