October 16, 2019

TO: Master Files

FROM: John Fleming, Division Head, Environmental Division

SUBJECT: Job Number 101001
FAP Number NHPP-0047(76)
Ditch No. 35 Str. & Apprs. (S)
Route 120, Section 1
Bridge Number M1834
Mississippi County
Tier 2 Categorical Exclusion

The Environmental Division reviewed the referenced project and has determined it falls within the definition of a Tier 2 Categorical Exclusion under 23 Code of Federal Regulations, Section 771.117, and the ArDOT/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 bridge in poor condition on Highway 120 over Ditch No. 35 in Mississippi County. Total length of the project is 0.398 mile. The attached figure illustrates the project location.

The existing roadway consists of two 10’ wide paved travel lanes with 4’ wide unpaved shoulders. The existing bridge (M1834) is 62’ x 28’.

Proposed improvements include a reinforced concrete box culvert with two 11’ wide paved travel lanes and 4’ wide shoulders (2’ paved). The project could acquire up to 12.14 acres of additional right of way.

Design data for this project is as follows:

<table>
<thead>
<tr>
<th>Design Year</th>
<th>Average Daily Traffic</th>
<th>Percent Trucks</th>
<th>Design Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>2020</td>
<td>330</td>
<td>8</td>
<td>55 mph</td>
</tr>
<tr>
<td>2040</td>
<td>410</td>
<td>8</td>
<td>55 mph</td>
</tr>
</tbody>
</table>
There are no relocations, environmental justice issues, or floodplains associated with this project. No impacts to cultural resources are anticipated; concurrence from the State Historic Preservation Officer is attached. Field inspections found no evidence of existing underground storage tanks or hazardous waste deposits. Up to 0.24 acres of Farmland of Statewide Importance may be converted to highway right of way. Form NRCS-CPA-106 is attached. This project has been determined to generate minimal air quality impacts for Clean Air Act criteria pollutants and has not been linked with any special mobile source air toxic concerns.

Based on the ArDOT's noise policy, a noise analysis is not required for this project. The project does not involve added capacity, construction of new through lanes or auxiliary lanes, substantial changes in the horizontal or vertical alignment of the roadway, or exposure of noise sensitive land uses to a new or existing highway noise source.

There will be no wetland impacts due to construction of the proposed project, and stream impacts are estimated to be less than 0.1 acre. Construction should be covered under the terms of a Nationwide Permit 14 for Linear Transportation Projects as defined in Federal Register 82 (4):1860 – 2008.

The official species list obtained through the US Fish and Wildlife Service's (USFWS) Information for Planning and Consultation website lists the Piping Plover (Charadrius melodus), pallid sturgeon (Scaphirhynchus albus), Fat Pocketbook (Potamilus capax), Rabbitsfoot (Theliderma cylindrica), and the Scaleshell Mussel (Leptodea leetodon) as protected species potentially occurring in the proposed project. Based on the lack of habitat, distance to known species, and scope of the project, it has been determined that the proposed project will have “no effect” on the aforementioned federally listed species.

Attachments:
- Project Location Map
- SHPO Clearance
- Form NRCS-CPA-106
- Environmental Study Checklist
- Design Criteria

Approved:
Kevin Thornton
Assistant Chief Engineer-Planning

JF:JB:am

c: Program Management
   Right of Way
   Roadway Design
   District 10
   FHWA
June 19, 2019

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

RE: Mississippi County — General  
Section 106 Review — FHWA  
Response Letter: Ditch No. 35 Str. & Apprs. (S)  
Route 120, Section 1  
ARDOT Job Number: 101001  
AHPP Tracking Number: 104060

Dear Mr. Fleming:

The staff of the Arkansas Historic Preservation Program (AHPP) reviewed the Cultural Resource Survey Report for the above-referenced job. The undertaking entails replacement of Bridge M1834 on East State Highway 120, northeast of Luxora in Mississippi County.

Based on the provided information in the Project Identification Form, the AHPP concurs that Bridge Number M1834 and Site 3MS0958 are not eligible for inclusion in the National Register of Historic Places. The AHPP also concurs with the finding of no historic properties affected pursuant to 36 CFR § 800.4(d)(1) for the proposed undertaking.

Tribes that have expressed an interest in the area include the Cherokee Nation (Ms. Elizabeth Toombs), the Osage Nation (Dr. Andrea Hunter), the Quapaw Nation (Mr. Everett Bandy), and the Shawnee Tribe of Oklahoma (Ms. Tonya Tipton). We recommend consultation in accordance with 36 CFR § 800.2(c)(2).

Thank you for the opportunity to review this undertaking and thorough report. Please refer to the AHPP Tracking Number listed above in all correspondence. If you have any questions, please call Eric Mills of my staff at 501-324-9784 or email eric.mills@arkansas.gov.

Sincerely,

Scott Kaufman  
Director, AHPP

cc: Mr. Randall Looney, Federal Highway Administration  
Dr. Ann Early, Arkansas Archeological Survey
**FARMLAND CONVERSION IMPACT RATING**
**FOR CORRIDOR TYPE PROJECTS**

### PART I (To be completed by Federal Agency)

1. **Name of Project**: Ditch No. 35 Str. & Apprs. (S)
2. **Type of Project**: Bridge Replacement
3. **Date of Land Evaluation Request**: 10/10/19
4. **Federal Agency Involved**: FHWA
5. **County and State**: Mississippi AR.

### PART II (To be completed by NRCS)

1. **Date Request Received by NRCS**: 10/10/19
2. **Person Completing Form**: [Name]
3. **Does the corridor contain prime, unique statewide or local important farmland?**
   - YES
   - NO
4. **Acres Irrigated**
5. **Farmable Land in Government Jurisdiction**
   - Acres: [Value]
   - %
6. **Amount of Farmland As Defined in FPPA**
   - Acres: [Value]
7. **Name Of Land Evaluation System Used**: [System Name]
8. **Name of Local Site Assessment System**: [System Name]
9. **Date Land Evaluation Returned by NRCS**: [Date]

### PART III (To be completed by Federal Agency)

<table>
<thead>
<tr>
<th>Alternative Corridor For Segment</th>
<th>Corridor A</th>
<th>Corridor B</th>
<th>Corridor C</th>
<th>Corridor D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### PART IV (To be completed by NRCS) Land Evaluation Information

1. **Total Acres To Be Converted Directly**: [Value]
2. **Total Acres To Be Converted Indirectly, Or To Receive Services**: [Value]
3. **Total Acres In Corridor**: [Value]
4. **Total Acres Prime And Unique Farmland**: [Value]
5. **Total Acres Statewide And Local Important Farmland**: [Value]
6. **Percentage Of Farmland in County Or Local Govt. Unit To Be Converted**: [Value]
7. **Percentage Of Farmland in Govt. Jurisdiction With Same Or Higher Relative Value**: [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)

<table>
<thead>
<tr>
<th>Component</th>
<th>Maximum Points</th>
<th>[Corridor Values]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Area in Nonurban Use</td>
<td>15</td>
<td>[Value]</td>
</tr>
<tr>
<td>2. Perimeter in Nonurban Use</td>
<td>10</td>
<td>[Value]</td>
</tr>
<tr>
<td>3. Percent Of Corridor Being Farmed</td>
<td>20</td>
<td>[Value]</td>
</tr>
<tr>
<td>4. Protection Provided By State And Local Government</td>
<td>20</td>
<td>[Value]</td>
</tr>
<tr>
<td>5. Size of Present Farm Unit Compared To Average</td>
<td>10</td>
<td>[Value]</td>
</tr>
<tr>
<td>6. Creation Of Nonfarmable Farmland</td>
<td>25</td>
<td>[Value]</td>
</tr>
<tr>
<td>7. Availability Of Farm Support Services</td>
<td>5</td>
<td>[Value]</td>
</tr>
<tr>
<td>8. On-Farm Investments</td>
<td>20</td>
<td>[Value]</td>
</tr>
<tr>
<td>9. Effects Of Conversion On Farm Support Services</td>
<td>25</td>
<td>[Value]</td>
</tr>
<tr>
<td>10. Compatibility With Existing Agricultural Use</td>
<td>10</td>
<td>[Value]</td>
</tr>
<tr>
<td><strong>TOTAL CORRIDOR ASSESSMENT POINTS</strong></td>
<td>160</td>
<td>[Value]</td>
</tr>
</tbody>
</table>

### PART VI (To be completed by Federal Agency) Corridor Assessment Criteria (These criteria are explained in 7 CFR 658.5(c))

<table>
<thead>
<tr>
<th>Component</th>
<th>Maximum Points</th>
<th>[Corridor Values]</th>
</tr>
</thead>
<tbody>
<tr>
<td>11. Relative Value Of Farmland (From Part V)</td>
<td>100</td>
<td>[Value]</td>
</tr>
<tr>
<td><strong>Total Corridor Assessment (From Part VI above or a local site assessment)</strong></td>
<td>160</td>
<td>[Value]</td>
</tr>
</tbody>
</table>

### TOTAL POINTS (Total of above 2 lines)

<table>
<thead>
<tr>
<th>Component</th>
<th>Maximum Points</th>
<th>[Corridor Values]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL POINTS</strong></td>
<td>260</td>
<td>[Value]</td>
</tr>
</tbody>
</table>

### PART VII (To be completed by Federal Agency)

1. **Corridor Selected**: New Location Adjacent to existing
2. **Total Acres of Farmlands to be Converted by Project**: .24 acres of Farmland of Statewide Importance
3. **Date Of Selection**: 10/10/19
4. **Was A Local Site Assessment Used?**
   - YES [ ]
   - NO [ ]

5. **Reason For Selection**: [Reason]

---

**Signature of Person Completing this Part:**

**John Babes**

**Date:** 10/10/19

**NOTE:** Complete a form for each segment with more than one Alternate Corridor.
**ArDOT ENVIRONMENTAL IMPACTS ASSESSMENT FORM**

**ArDOT Job Number** 101001  **FAP Number** NHPP-0047(76)

**Job Title** Ditch No. 35 Str. & Apprs. (S)

<table>
<thead>
<tr>
<th>Environmental Impacts</th>
<th>None</th>
<th>Minor</th>
<th>Significant</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Quality</td>
<td>X</td>
<td></td>
<td></td>
<td>No impacts</td>
</tr>
<tr>
<td>Construction Impacts</td>
<td>X</td>
<td></td>
<td></td>
<td>No impacts</td>
</tr>
<tr>
<td>Cultural Resources</td>
<td>X</td>
<td></td>
<td></td>
<td>No impacts anticipated</td>
</tr>
<tr>
<td>Economic</td>
<td>X</td>
<td></td>
<td></td>
<td>No impacts</td>
</tr>
<tr>
<td>Endangered Species</td>
<td>X</td>
<td></td>
<td></td>
<td>No Effect determination</td>
</tr>
<tr>
<td>Energy Resources</td>
<td>X</td>
<td></td>
<td></td>
<td>No impacts</td>
</tr>
<tr>
<td>Environmental Justice&gt;Title VI</td>
<td>X</td>
<td></td>
<td></td>
<td>No protected populations</td>
</tr>
<tr>
<td>Fish and Wildlife</td>
<td>X</td>
<td></td>
<td></td>
<td>Temporary during construction</td>
</tr>
<tr>
<td>Floodplains</td>
<td>X</td>
<td></td>
<td></td>
<td>None occur in the project area</td>
</tr>
<tr>
<td>Forest Service Property</td>
<td>X</td>
<td></td>
<td></td>
<td>None occur in the project area</td>
</tr>
<tr>
<td>Hazardous Materials/Landfills</td>
<td>X</td>
<td></td>
<td></td>
<td>None in project area</td>
</tr>
<tr>
<td>Land Use Impacts</td>
<td>X</td>
<td></td>
<td></td>
<td>No impacts</td>
</tr>
<tr>
<td>Migratory Birds</td>
<td>X</td>
<td></td>
<td></td>
<td>Migratory Bird SP included</td>
</tr>
<tr>
<td>Navigation/Coast Guard</td>
<td>X</td>
<td></td>
<td></td>
<td>No navigable waterwas involved</td>
</tr>
<tr>
<td>Noise Levels</td>
<td>X</td>
<td></td>
<td></td>
<td>No increase due to project</td>
</tr>
<tr>
<td>Prime Farmland</td>
<td>X</td>
<td></td>
<td></td>
<td>0.24 Farmland of Statewide Importance</td>
</tr>
<tr>
<td>Protected Waters</td>
<td>X</td>
<td></td>
<td></td>
<td>None in project area</td>
</tr>
<tr>
<td>Public Recreation Lands</td>
<td>X</td>
<td></td>
<td></td>
<td>None in project area</td>
</tr>
<tr>
<td>Public Water Supply/WHPA</td>
<td>X</td>
<td></td>
<td></td>
<td>None in project area</td>
</tr>
<tr>
<td>Relocatees</td>
<td>X</td>
<td></td>
<td></td>
<td>No relocations</td>
</tr>
<tr>
<td>Section 4(f)/6(f)</td>
<td>X</td>
<td></td>
<td></td>
<td>No 4f/6f resources present</td>
</tr>
<tr>
<td>Social</td>
<td>X</td>
<td></td>
<td></td>
<td>No impacts to social environment</td>
</tr>
<tr>
<td>Underground Storage Tanks</td>
<td>X</td>
<td></td>
<td></td>
<td>No UST’s in project area</td>
</tr>
<tr>
<td>Visual Impacts</td>
<td>X</td>
<td></td>
<td></td>
<td>No changes in visual environment</td>
</tr>
<tr>
<td>Stream Impacts</td>
<td>X</td>
<td></td>
<td></td>
<td>Temporary during construction</td>
</tr>
<tr>
<td>Water Quality</td>
<td>X</td>
<td></td>
<td></td>
<td>Temporary during construction</td>
</tr>
<tr>
<td>Wetlands</td>
<td>X</td>
<td></td>
<td></td>
<td>None in the project area</td>
</tr>
<tr>
<td>Wildlife Refuges</td>
<td>X</td>
<td></td>
<td></td>
<td>None in the project area</td>
</tr>
</tbody>
</table>

Section 401 Water Quality Certification Required? **No**
Short-term Activity Authorization Required? **Yes**
Section 404 Permit Required? **Yes** Type NW14

Remarks: 

______________________________

Signature of Evaluator **John Baker** Date 10/10/19
PROJECT DESIGN CRITERIA

DATE: September 24, 2019
REV.:

JOB NO: 101001
ROUTE / SECTION: 120 / 1
LENGTH: 0.25 mile
COUNTY: Mississippi

MIN ORDER: 2018-080

JOB NAME: Ditch No. 35 Str. & Apprs. (S)
2020 ADT: 330
2040 ADT: 410
TRUCK: 8%
4-LANE GRID SYSTEM: No

APHN: No
INCENTIVE/DISINCENTIVE: No
FUNCTIONAL CLASSIFICATION: Major Collector

ROADWAY WIDTH: 28'
WIDTH OF TRAVELED WAY: 20'
SHOULDERS (WIDTH/TYP): 4' / Unpaved
BIKE/PED ACCOMMODATIONS: No
CRASH RATE: 0.00
STATEWIDE CRASH RATE: 1.07

EXISTING CONDITIONS

BRIDGE INFORMATION

<table>
<thead>
<tr>
<th>Bridge No.</th>
<th>Log Mile</th>
<th>Length x Width</th>
<th>Structure Type</th>
<th>BCI</th>
<th>Deck/Culvert Rating</th>
<th>Superstructure Rating</th>
<th>Substructure Rating</th>
<th>Posted</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1834</td>
<td>2.61</td>
<td>62.5' x 28.4'</td>
<td>Timber Multi-Beam</td>
<td>31.98</td>
<td>4</td>
<td>6</td>
<td>4</td>
<td>0</td>
</tr>
</tbody>
</table>

* Refer to PDC Bridge Information Codes

RECOMMENDED CRITERIA

NO. OF LANES: 2
WIDTH: 11'
SHOULDERS (WIDTH/TYP): 4' (2' paved)
DIVIDED: No
MEDIAN WIDTH: N/A
DESIGN SPEED - RURAL: 55 mph
PARKING: No
URBAN: N/A

BRIDGE WIDTHS: N/A

DEGREE OF ACCESS CONTROL: None
CLEAR ZONE: 18' @ 4:1
LOCATION OF INTERCHANGES: N/A
CHANNELIZED INTERSECTION: As warranted

TRAFFIC SIGNALS: As warranted
RR X-ING PROTECTION: N/A

BIKE/PED ACCOMMODATIONS: None
PREVIOUS PLANNING STUDY: None
STUDY FINDING: N/A

RECOMMENDED TYPE FUNDS: NHPP
PRELIM COST ESTIMATE: ROADWAY: $1,100,000 BRIDGE: $0 TOTAL: $1,100,000

REMARKS:
R.C. Box Culvert
Use AASHTO Green Book

RECOMMENDED BY:

Charles Ellis: [Signature]
Date: 9-26-19

Trinity Smith: [Signature]
Date: 9/24/19

APPROVED BY:

Mike Fugett: [Signature]
ACE-Design
Date: 9/30/19

(ATTACH NEW PROJECT MEMO, LOCATION MAP, AND CRASH ANALYSIS)