February 14, 2019

TO: Master Files

FROM: John Fleming, Division Head, Environmental Division

SUBJECT: Job Number 100840
FAP Number NHPP-0056(36)
Ditch Nos. 1 & 47 Strs. & Apprs. (S)
Route 308, Section 1
Bridge Numbers M4012 & M4006
Poinsett 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 two structurally deficient bridges on Highway 308 in Poinsett County. Total project length is 0.52 mile. A project location map is attached.

The existing roadway consists of two 10’ wide paved travel lanes with 3’ wide paved shoulders. The two bridges to be replaced are over Ditch No. 1 and Ditch No. 47. Existing right of way width averages 80 feet.

The bridges will be replaced with a single bridge approximately 55’ downstream. The new approaches will include two 11’ wide paved travel lanes with 4’ wide shoulders (2’ paved). The right of way width will vary between 65’ - 230’. Approximately 3.2 acres of additional right of way will be required for the project.
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>2019</td>
<td>490</td>
<td>7</td>
<td>55 mph</td>
</tr>
<tr>
<td>2039</td>
<td>560</td>
<td>7</td>
<td>55 mph</td>
</tr>
</tbody>
</table>

The project will not involve relocations, prime farmlands, wetlands, underground storage tanks, hazardous materials, environmental justice issues, or cultural resources. 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 (MSAT) concerns. The State Historic Preservation Officer’s clearance is attached.

Piping Plover (*Charadrius melodus*), pallid sturgeon (*Scaphirhynchus albus*), Fat Pocketbook (*Potamilus capax*), Rabbitsfoot (*Theliderma cylindrica*), Scaleshell Mussel (*Leptodea leptodon*), and pondberry (*Lindera melissifolia*) are species potentially affected by the proposed project. This project will not affect these species due to the lack of suitable habitat and distance to known species locations. There are no wetlands to support pondberry and the nature (size, shape, etc.) of these ditches does not contain suitable habitat for the other species.

The project will have a discharge of dredged or fill material into waters of the United States associated with the bridge construction; therefore, a Section 404 permit will be required. The project should be authorized by Nationwide Permit 14 for Linear Transportation Projects as defined in Federal Register 82(4): 1860-2008.

Poinsett County participates in the National Flood Insurance Program. The project lies within Zone A, Special Flood Hazard Area. The 100-year floodplain limits extend across the limits of the project. 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 substantial floodplain encroachment or risk to property or life.

Noise predictions have been made for this project utilizing the Federal Highway Administration’s TNM 2.5 (Traffic Noise Model) procedures. These procedures indicate that noise levels are below the FHWA noise criteria beyond the project’s proposed right of way limits. Any increases in roadway noise levels will not be the result of the proposed project, but instead a result of traffic volume increases during the planning period (Year 2039). Therefore, any noise level increases will
occur independently of this proposed project, and no project related noise impacts are anticipated. In compliance with Federal guidelines, local authorities will not require notification.

Attachments:
- Project Location Map
- SHPO Clearance
- Environmental Study Checklist
- Design Sheets

Approved:

[Signature]
Kevin Thornton
Assistant Chief Engineer-Planning

JF:SL:am
c: Bridge Program Management
   Right of Way
   Roadway Design
   District 10
   FHWA
June 9, 2017

Ms. Stacy Hurst
Arkansas Historic Preservation Program
1100 North Street
Little Rock, Arkansas 72201

RE: AHTD Job No. 100840
Ditch Nos. 1 & 47 Strs. & Apprs. (S)
Poinsett County

Dear Ms. Hurst:

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 Jason Eads of my staff at (501) 569-2181.

Sincerely,

[Signature]

for

John Fleming
Division Head
Environmental Division

Enclosure
PIF

JF:DW:JE:ym
## ArDOT ENVIRONMENTAL VERIFICATION CHECKLIST
### FOR CONSIDERATION OF POTENTIAL IMPACTS

<table>
<thead>
<tr>
<th>Environmental Resource</th>
<th>None</th>
<th>Minimal</th>
<th>Major</th>
<th>Comments-required for each item</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Quality</td>
<td>X</td>
<td></td>
<td></td>
<td>No impacts anticipated</td>
</tr>
<tr>
<td>Cultural Resources</td>
<td>X</td>
<td></td>
<td></td>
<td>None in project area</td>
</tr>
<tr>
<td>Economic</td>
<td>X</td>
<td></td>
<td></td>
<td>Will not be impacted by project</td>
</tr>
<tr>
<td>Endangered Species</td>
<td>X</td>
<td></td>
<td></td>
<td>&quot;No Effect&quot; determination</td>
</tr>
<tr>
<td>Environmental Justice/Title VI</td>
<td>X</td>
<td></td>
<td></td>
<td>No protected populations in project area</td>
</tr>
<tr>
<td>Fish and Wildlife</td>
<td>X</td>
<td></td>
<td></td>
<td>Minor impacts during construction</td>
</tr>
<tr>
<td>Floodplains</td>
<td>X</td>
<td></td>
<td></td>
<td>Zone A</td>
</tr>
<tr>
<td>Forest Service Property</td>
<td>X</td>
<td></td>
<td></td>
<td>None in the area</td>
</tr>
<tr>
<td>Hazardous Materials/Landfills</td>
<td>X</td>
<td></td>
<td></td>
<td>No sites in project area</td>
</tr>
<tr>
<td>Land Use</td>
<td>X</td>
<td></td>
<td></td>
<td>Will not be impacted by project</td>
</tr>
<tr>
<td>Migratory Birds</td>
<td>X</td>
<td></td>
<td></td>
<td>Bird SP will be added</td>
</tr>
<tr>
<td>Navigation/Coast Guard</td>
<td>X</td>
<td></td>
<td></td>
<td>Non-navigable waters</td>
</tr>
<tr>
<td>Noise Levels</td>
<td>X</td>
<td></td>
<td></td>
<td>No increases due to project</td>
</tr>
<tr>
<td>Prime Farmland</td>
<td>X</td>
<td></td>
<td></td>
<td>None in project area</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>No public water supplies 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>4f/6f resources not present</td>
</tr>
<tr>
<td>Social</td>
<td>X</td>
<td></td>
<td></td>
<td>No impacts to the social environment</td>
</tr>
<tr>
<td>Underground Storage Tanks</td>
<td>X</td>
<td></td>
<td></td>
<td>No USTs in project area</td>
</tr>
<tr>
<td>Visual</td>
<td>X</td>
<td></td>
<td></td>
<td>No changes to visual environment</td>
</tr>
<tr>
<td>Streams</td>
<td>X</td>
<td></td>
<td></td>
<td>Minor impacts during construction</td>
</tr>
<tr>
<td>Water Quality</td>
<td>X</td>
<td></td>
<td></td>
<td>Minor impacts during construction</td>
</tr>
<tr>
<td>Wetlands</td>
<td>X</td>
<td></td>
<td></td>
<td>None in the project construction limits</td>
</tr>
<tr>
<td>Wildlife Refuges</td>
<td>X</td>
<td></td>
<td></td>
<td>None in the area</td>
</tr>
</tbody>
</table>

**Section 401 Water Quality Certification Required?** N

**Short-term Activity Authorization Required?** Y

**Section 404 Permit Required?** Y Type NWP 14

**Remarks:**

__________________________________________________________________________

__________________________________________________________________________

Signature of Evaluator **Sherry LaBlanc**  Date **2/6/2019**
ROADWAY DESIGN REQUEST

Job Number 100840  FAP No. ____________________________  County Poinsett

Job Name Ditch Nos. 1 & 47 Strs. & Apprs. (S)

Design Engineer David Baker  Environmental Staff

Brief Project Description Replacement of a bridge on new location.

A. Existing Conditions:

Roadway Width: 26’  Shoulder Type/Width: 3’ Paved

Number of Lanes and Width: 2 @ 10’  Existing Right-of-Way: 80’

Sidewalks? No  Location:  Width: 

Bike Lanes? No  Location:  Width: 

B. Proposed Conditions:

Roadway Width: 30’  Shoulder Type/Width: 4'/2' Paved

Number of Lanes and Width: 2 @ 11’  Proposed Right-of-Way: 65'-230'

Sidewalks? No  Location:  Width: 

Bike Lanes? No  Location:  Width: 

C. Construction Information:

If detour: Where:  Length: 

D. Design Traffic Data:

2019 ADT: 490  2039 ADT: 560  % Trucks: 7%

Design Speed: 55 m.p.h.

E. Approximate total length of project: 0.518 mile(s)

F. Justification for proposed improvements: Bridge replacement requires new location.

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

H. Have you coordinated with any outside agencies (e.g., FHWA, City, County, etc.)? 

<table>
<thead>
<tr>
<th>Agency/Official</th>
<th>Person Contacted</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>
BRIDGE INFORMATION – PRELIMINARY

Job Number: __100840__  FAP Number: _Z001-0056-036__  County: _Poinsett__
Job Name: _Ditch No. 1 & 47 Strs. & Apprs.(S)___
Design Engineer: _Garver (Steven Peyton overseeing for ARDOT)___
Environmental Staff: _Sherry LeBlanc, Mickey Mathews_

A. Description of Existing Bridge:
1. Bridge Number _M4006_ over _Ditch No. 47_
2. Location: Rte.: __308__  Section: _1_  Log Mile: __4.39__
4. Type Construction: Concrete Deck Supported by Steel Girders on Timber Substructure
5. Deficiencies: Deteriorating Deck, Girders, and Timber Cap and Piles
7. Are any Condition Component Ratings at 3 or less? _No_

1. Bridge Number _M4012_ over _Ditch No. 1_
2. Location: Rte.: __308__  Section: _1_  Log Mile: __4.41__
4. Type Construction: Concrete Deck Supported by Steel Girders on Timber Substructure
5. Deficiencies: Deteriorating Deck, Girders, and Timber Cap and Piles
7. Are any Condition Component Ratings at 3 or less? _Yes_

B. Proposed Improvements:
2. Travel Lanes: _2_  Width: _11.0_ ft
3. Shoulder Width: Left: _4.0_ ft  Right: _4.0_ ft
4. Sidewalks? _No_  Location: ___________  Width: _______ ft

C. Construction Information:
1. Location in relation to existing bridge: Approximately 55 Feet Downstream
2. Superstructure Type: _Continuous Composite Steel W-Beam Unit_
3. Span Lengths: _6 spans @ 50’ each_
4. Substructure Type: _Concrete Filled Steel Shell Pile Trestle Bents w/Pile Encasement_
5. Ordinary High Water Elev. (OHW): __211.0__  No. of Bents inside OHW Contours: _3_
7. Is Channel Excavation below OHW Required? _No_  Surface Area: ______ ft²  Volume: ______ yd³
8. Is Fill below OHW Req’d.? _No_  Surface Area: ______ ft²  Volume: ______ yd³
9. Is Riprap below OHW Required? _No_  Volume: _TBD_ yd³

D. Work Road Information:
1. Is Work Road(s) required? _Yes_  Location: TBD  Top Width: TBD
2. Is Fill below OHW required? _TBD_  Surface Area: TBD  Volume: TBD yd³
3. Are Pipes required to meet Backwater Criteria? _TBD_  Waterway Opening: ______ ft²
E. Detour Information:
1. Is a detour bridge required? No  Location in relation to Existing Br.: ____________
3. 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 Division coordinated with any outside agencies? ________

<table>
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<tr>
<th>Agency</th>
<th>Person Contacted</th>
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<tbody>
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