



INTEROFFICE MEMORANDUM

February 14, 2019

TO: Master Files

FROM: *John Fleming* John Fleming, Division Head, Environmental Division *B. Price*

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:

Design Year	Average Daily Traffic	Percent Trucks	Design Speed
2019	490	7	55 mph
2039	560	7	55 mph

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

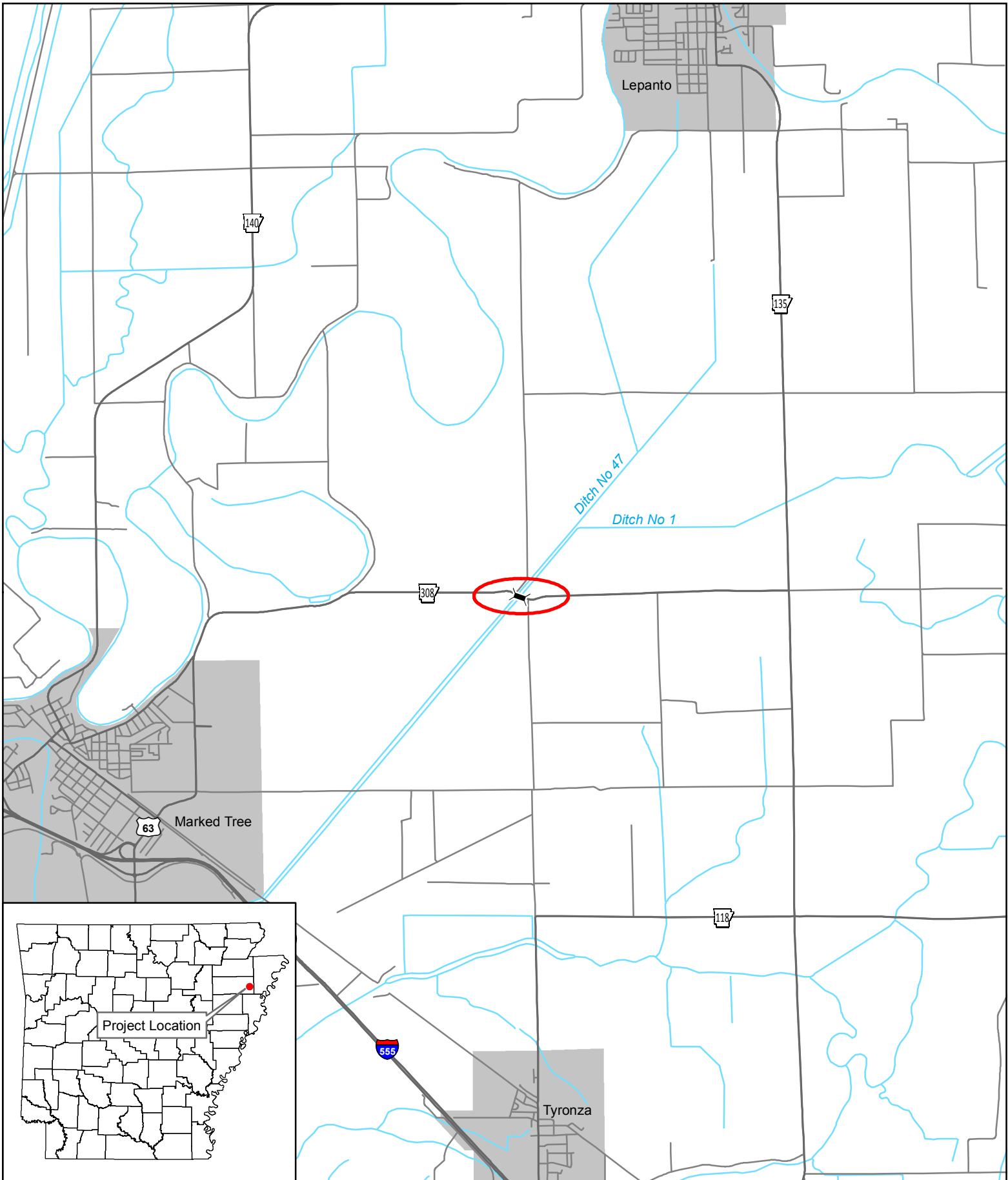
Approved:




Kevin Thornton
Assistant Chief Engineer-Planning

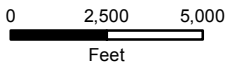
JF:SL:am

c: Bridge Program Management
Right of Way
Roadway Design
District 10
FHWA



Job 100840
Ditch Nos. 1 & 47 Strs. & Apprs.
(Hwy. 308)
Poinsett County

 Project Location



ARKANSAS STATE HIGHWAY
AND
TRANSPORTATION DEPARTMENT

98502
FHWA

Scott E. Bennett, P.E.
Director
Telephone (501) 569-2000
Voice/TTY 711



P.O. Box 2261
Little Rock, Arkansas 72203-2261
Telefax (501) 569-2400
www.arkansashighways.com

June 9, 2017

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

AHPP
JUN 12 2017

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,

A handwritten signature in cursive script that reads "Brenda Price".

for John Fleming
Division Head
Environmental Division

Enclosure
PIF

JF:DW:JE:ym

RECEIVED
AHTD

JUN 14 2017

ENVIRONMENTAL
DIVISION

JUN 12 2017

Date
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 cursive script that reads "Russell".
Arkansas State Historic Preservation Officer

JUN 12 2017

**ARDOT ENVIRONMENTAL VERIFICATION CHECKLIST
FOR CONSIDERATION OF POTENTIAL IMPACTS**

ARDOT Job Number 100840 FAP Number NHPP-0056(36)

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

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

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 LeBlanc Date 2/6/2019

Date Sent: January 17, 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 1/2' 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 Relocates: 0 Residences: 0 Businesses: 0

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

Agency/Official	Person Contacted	Date

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
3. Length: 87 ft Br. Rdwy. Width: 28 ft Deck Width (Out-to-Out): 30.8 ft
4. Type Construction: Concrete Deck Supported by Steel Girders on Timber Substructure
5. Deficiencies: Deteriorating Deck, Girders, and Timber Cap and Piles
6. HBRRP Eligibility: Qualif. Code: SD Sufficiency Rating: 69.3
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
3. Length: 145 ft Br. Rdwy. Width: 28 ft Deck Width (Out-to-Out): 30.8 ft
4. Type Construction: Concrete Deck Supported by Steel Girders on Timber Substructure
5. Deficiencies: Deteriorating Deck, Girders, and Timber Cap and Piles
6. HBRRP Eligibility: Qualif. Code: SD Sufficiency Rating: 37.7
7. Are any Condition Component Ratings at 3 or less? yes

B. Proposed Improvements:

1. Length: 302.24 ft Br. Rdwy. Width: 30 ft Deck Width (Out-to-Out): 33.17 ft
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
6. Concrete Vol. below OHW: TBD yd³ Vol. Bent Excavation: TBD yd³ Vol. Backfill TBD yd³
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 ft
2. Is Fill below OHW required? TBD Surface Area: TBD ft² 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.: _____
2. Length: _____ ft Br. Rdwy. Width: _____ ft Deck Elevation: _____
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? _____

Agency	Person Contacted	Date