



# INTEROFFICE MEMORANDUM

October 16, 2019

**TO:** Master Files

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

**SUBJECT:** Job Number 101008  
FAP Number NHPP-0047(78)  
Little Cypress Ditch Str. & Apprs. (S)  
Route 308, Section 2  
Bridge Number M3492  
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 on Highway 308 over Little Cypress Ditch in Mississippi County. Total length of the project is 0.04 mile. The attached figure illustrates the project location.

The existing roadway consists of two 10' wide paved travel lanes with 3' wide unpaved shoulders. The existing bridge (M3492) is 69' x 25'.

Proposed improvements include a Triple 11' x 10' x 72' reinforced concrete box culvert with two 11' wide paved travel lanes and 4' wide shoulders (2' paved). The project could acquire up to 10.3 acres of additional right of way.

Design data for this project is as follows:

Design Year	Average Daily Traffic	Percent Trucks	Design Speed
2020	200	7	55 mph
2040	230	7	55 mph

There are no relocations, environmental justice issues, floodplains or endangered species 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 3.8 acres of Prime Farmland 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.

The existing bridge over Little Cypress Ditch, an intermittent stream, will be replaced with a new triple concrete box culvert on existing location. Construction of the new box culvert may require a temporary detour to be constructed adjacent to the existing bridge. Total impacts to waters of the United States will be up to 0.4 acre. Construction should be allowed under the terms of a Section 404 Nationwide Permit 14 for Linear Transportation Crossings as defined in Federal Register 82 (4):1860-2008.

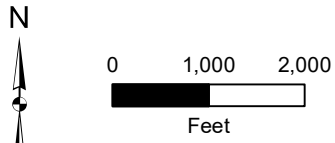
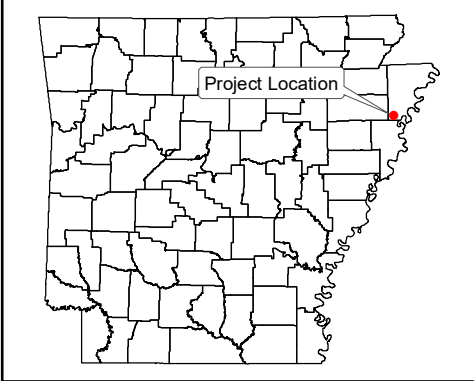
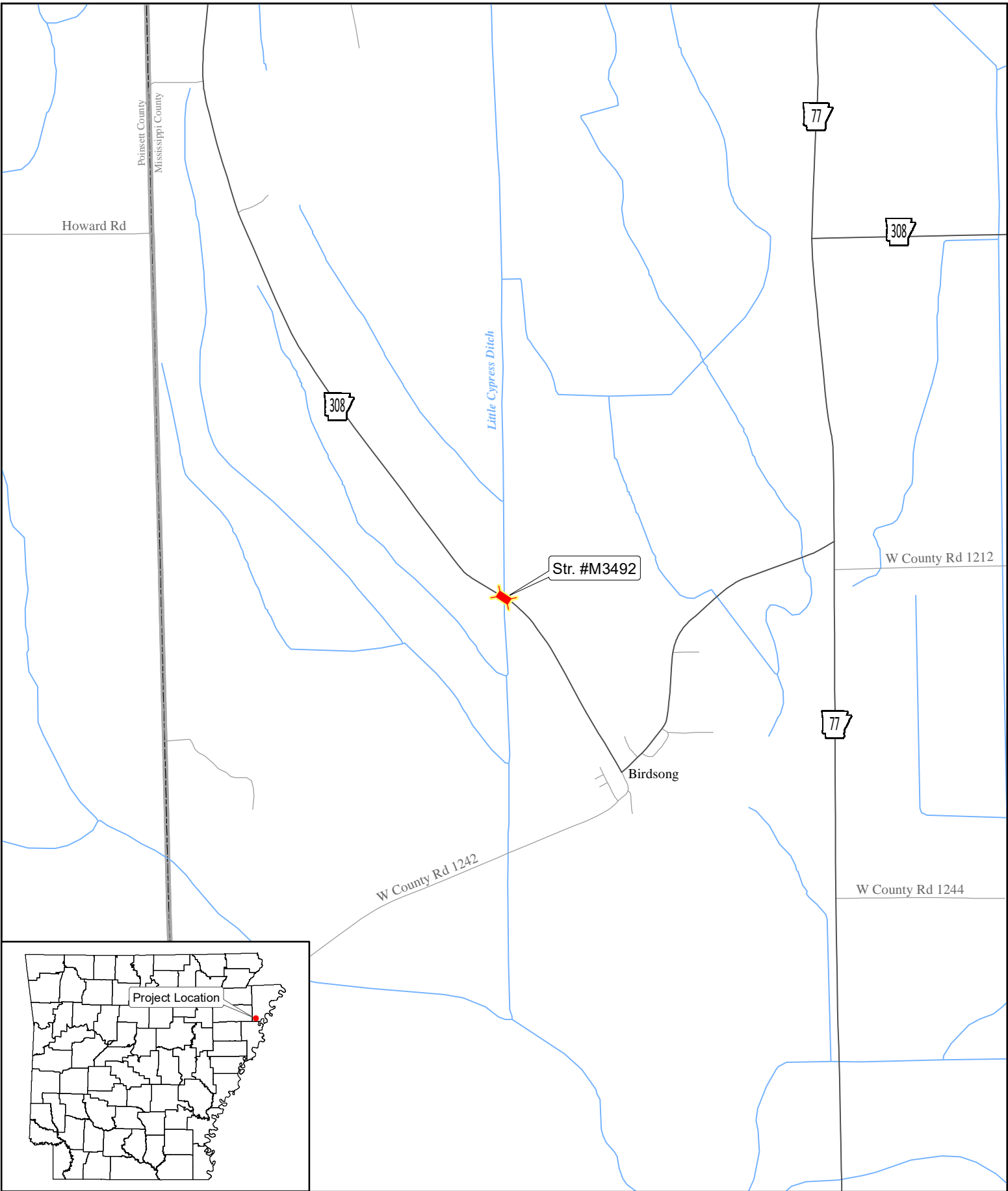
The official species list obtained from the US Fish and Wildlife Service's Information for Planning and Consultation website identified the following species as potentially occurring within the project area: Piping Plover (*Charadrius melodus*), pallid sturgeon (*Scaphirhynchus albus*), Fat Pocketbook (*Potamilus capax*), Rabbitsfoot (*Theliderma cylindrica*) and Scaleshell (*Leptodea leptodon*). Due to lack of habitat and distance to known locations of the species, 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

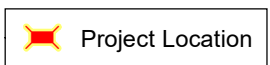
Approved:  
  
Kevin Thornton  
Assistant Chief Engineer-Planning

JF:JB:am

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



Job 101008  
Little Cypress Ditch Str. & Apprs.  
(Hwy. 308)  
Mississippi County





THE DEPARTMENT OF ARKANSAS  
**HERITAGE**

Asa Hutchinson  
*Governor*

Stacy Hurst  
*Director*

July 11, 2019

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

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Arkansas Arts Council

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Arkansas Historic  
Preservation Program

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Arkansas Natural  
Heritage Commission

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Arkansas State Archives

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Delta Cultural Center

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Historic Arkansas Museum

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Mosaic Templars  
Cultural Center

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Old State House Museum

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RE: Mississippi County — General  
Section 106 Review — FHWA  
Response Letter: Little Cypress Ditch Str. & Apprs. (S)  
Route 308, Section 2  
ARDOT Job Number: 101008  
AHPP Tracking Number: 104085.01

Dear Mr. Fleming:

The staff of the Arkansas Historic Preservation Program (AHPP) reviewed the Project Identification Form for the above-referenced job. The undertaking entails replacing Bridge M3492 over the Little Cypress Ditch on Arkansas Highway 308. The established Environmental Clearance Limit for the project is approximately 665 meters (2,180 feet) in length with a total area of 4.2 hectares (10.3 acres). In correspondence dated June 20, 2019, the AHPP concurred that Bridge M3492 is not eligible for inclusion in the National Register of Historic Places (AHPP Tracking Number 104085).

Based on the provided information and the negative results of the cultural resources survey, the AHPP 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 (Ms. Tonya Tipton). We recommend consultation in accordance with 36 CFR § 800.2(c)(2).

Thank you for the opportunity to review this undertaking. 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](mailto:eric.mills@arkansas.gov).

Sincerely,

Scott Kaufman  
Director, AHPP

cc: Mr. Randall Looney, Federal Highway Administration  
Dr. Ann Early, Arkansas Archeological Survey



ARKANSAS HISTORIC  
PRESERVATION PROGRAM



1100 North Street  
Little Rock, AR 72201

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

[info@arkansaspreservation.org](mailto:info@arkansaspreservation.org)  
[www.arkansaspreservation.com](http://www.arkansaspreservation.com)

**FARMLAND CONVERSION IMPACT RATING  
FOR CORRIDOR TYPE PROJECTS**

<b>PART I (To be completed by Federal Agency)</b> Job 101008	3. Date of Land Evaluation Request 10/8/19	4. Sheet 1 of
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1. Name of Project Little Cypress Ditch Str. & Apprs. (S)	5. Federal Agency Involved FHWA
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2. Type of Project Bridge Replacement	6. County and State Mississippi AR.
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<b>PART II (To be completed by NRCS)</b>	1. Date Request Received by NRCS	2. Person Completing Form
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3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form). YES NO	4. Acres Irrigated   Average Farm Size
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5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: %	7. Amount of Farmland As Defined in FPPA Acres: %
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8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
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**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				

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

A. Total Acres Prime And Unique Farmland	3.78
B. Total Acres Statewide And Local Important Farmland	
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	20			
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	5			
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>50</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	50			
<b>TOTAL POINTS (Total of above 2 lines)</b>	<b>260</b>	<b>150</b>			

1. Corridor Selected: New <input type="checkbox"/> existing <input checked="" type="checkbox"/>	2. Total Acres of Farmlands to be Converted by Project: 3.78 acres of Prime Farmland	3. Date Of Selection:	4. Was A Local Site Assessment Used?  YES <input type="checkbox"/> NO <input type="checkbox"/>
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5. Reason For Selection:

Signature of Person Completing this Part: \_\_\_\_\_ DATE: \_\_\_\_\_

*John Baber*

10/9/19

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

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

ARDOT Job Number 101008 FAP Number NHPP-0047(78)

Job Title Little Cypress Ditch Str. & Apprs. (S)

Environmental Resource	None	Minimal	Major	Comments-required for each item
Air Quality	X			No impacts
Cultural Resources	X			No impacts anticipated
Economic	X			No impacts
Endangered Species	X			"No effect" determination
Environmental Justice/Title VI	X			No impacts on protected populations
Fish and Wildlife		X		Temporary impacts during construction
Floodplains	X			No impacts
Forest Service Property	X			None in the project area
Hazardous Materials/Landfills	X			None in project area
Land Use	X			No impacts
Migratory Birds		X		Migratory Bird SP included
Navigation/Coast Guard	X			None in the project area
Noise Levels	X			No increase due to project
Prime Farmland	X			3.78 acres
Protected Waters	X			None in the project area
Public Recreation Lands	X			None in project area
Public Water Supply/WHPA	X			Wellhead Protection SP required
Relocatees	X			No relocations
Section 4(f)/6(f)	X			No 4f/6f resources
Social	X			No impacts to social environment
Underground Storage Tanks	X			No UST's in project area
Visual	X			No changes in visual environment
Streams		X		Nationwide 14 Permit required
Water Quality		X		Temporary during construction
Wetlands	X			None in the project area
Wildlife Refuges	X			None in the project area

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 John Baber Date 10/8/19

**PROJECT DESIGN CRITERIA**

DATE: September 27, 2019

REV.: \_\_\_\_\_

JOB NO: 101008      ROUTE / SECTION: 308/2      LENGTH: 0.04 mile      COUNTY: Mississippi  
 JOB NAME: Little Cypress Ditch Str. & Apprs. (S)      MIN ORDER: 2018-080  
 2020 ADT: 200      2040 ADT: 230      TRUCK: 7%      4-LANE GRID SYSTEM: No  
 APHN: No      INCENTIVE/DISINCENTIVE: No      FUNCTIONAL CLASSIFICATION: Major Collector

**EXISTING CONDITIONS**

ROADWAY WIDTH: 26'      WIDTH OF TRAVELED WAY: 20'      SHOULDERS (WIDTH/TYPE): 3' unpaved  
 BIKE/PED ACCOMMODATIONS: No      CRASH RATE: 0.00      STATEWIDE CRASH RATE: 1.07

**BRIDGE INFORMATION**

Bridge No.	Log Mile	Length x Width	Structure Type	BCI	Deck Rating	Superstructure Rating	Substructure Rating	Posted
M3492	3.62	69.0' x 25.4'	Concrete Channel Beam	45.22	7	7	5	0

\* Refer to PDC Bridge Information Codes

**RECOMMENDED CRITERIA**

NO. OF LANES: 2      WIDTH: 11'      SHOULDERS (WIDTH/TYPE): 4' (2' paved)  
 DIVIDED: No      MEDIAN WIDTH: N/A      PARKING: N/A  
 BRIDGE WIDTHS: N/A      DESIGN SPEED - RURAL: 55 mph      URBAN: N/A  
 DEGREE OF ACCESS CONTROL: None      CLEAR ZONE: 18' @ 4:1  
14' @ 6:1  
 LOCATION OF INTERCHANGES: N/A      CHANNELIZED INTERSECTION: As warranted  
 TRAFFIC SIGNALS: As warranted      RR X-ING PROTECTION: N/A  
 BIKE/PED ACCOMMODATIONS: N/A  
 PREVIOUS PLANNING STUDY: N/A  
 STUDY FINDING: N/A

RECOMMENDED TYPE FUNDS: National Highway Performance Program funds  
 PRELIM COST ESTIMATE:      ROADWAY: \$400,000      BRIDGE: \$0      TOTAL: \$400,000

**REMARKS:**

R.C. Box Culvert  
 Use AASHTO Green Book

**RECOMMENDED BY:**

Charles Ellis: *Charles R. Ellis*  
 Date: 10-1-19

Trinity Smith: *Trinity Smith*  
 Date: 9/30/19

**APPROVED BY:**

Mike Fugett: *[Signature]*  
 ACE-Design

Date: 10-2-19

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