

TIER 3 CATEGORICAL EXCLUSION

**ARDOT JOB NUMBER 090551
FAP NUMBER STPB-0045(32)
LOCUST CREEK STR. & APPRS. (S)
ROUTE 268, SECTION 0
MARION COUNTY**

Submitted Pursuant to 42 U.S.C. 4332(2)

By the

U.S. Department of Transportation


Federal Highway Administration

And the

Arkansas Department of Transportation

August 2019

August 1, 2019
Date of Approval


Randal Looney
Environmental Coordinator
Federal Highway Administration

The Environmental Division reviewed the referenced project and has determined it falls within the definition of the Tier 3 Categorical Exclusion as defined by the ARDOT/FHWA Memorandum of Agreement on the processing of Categorical Exclusions. The following information is included for your review and, if acceptable, approval as the environmental documentation for this project.

The purpose of this project is to replace Bridge No. M3776 over Locust Creek on Highway 268. Total length of the project is approximately 0.3 mile. A project location map is attached.

The existing roadway has two 11' wide paved travel lanes with 2' wide paved shoulders. The bridge is in poor condition. Existing right of way width is 80'.

The existing bridge will be replaced with a new bridge. The roadway will have two 11' wide paved travel lanes with 6' wide shoulders (2' paved, 4' gravel). A maximum of approximately 9.5 acres of additional right of way will be required for this project.

Design data for this project is as follows:

Design Year	Average Daily Traffic	Percent Trucks	Design Speed
2020	1,000	2	55 mph
2040	1,200	2	55 mph

Based on the ARDOT's noise policy, a noise analysis is not required for this project. The bridge replacement does not involve adding capacity, substantially changing the horizontal or vertical alignment of the roadway, or exposing noise sensitive land uses to new traffic noise sources. In compliance with federal guidelines, local authorities will not require notification.

There are no relocations, floodplains, wetlands, environmental justice concerns, underground storage tanks/hazardous wastes, or cultural resources associated with this project. State Historic Preservation Officer clearance is attached. A maximum of 4.8 acres of Farmland of Statewide Importance will be converted to highway right of way. Form NRCS-CPA-106 is attached.

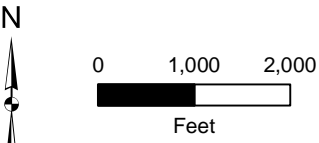
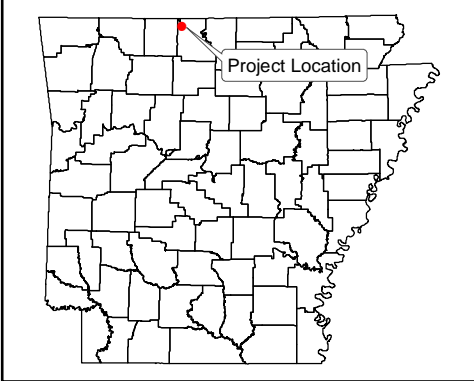
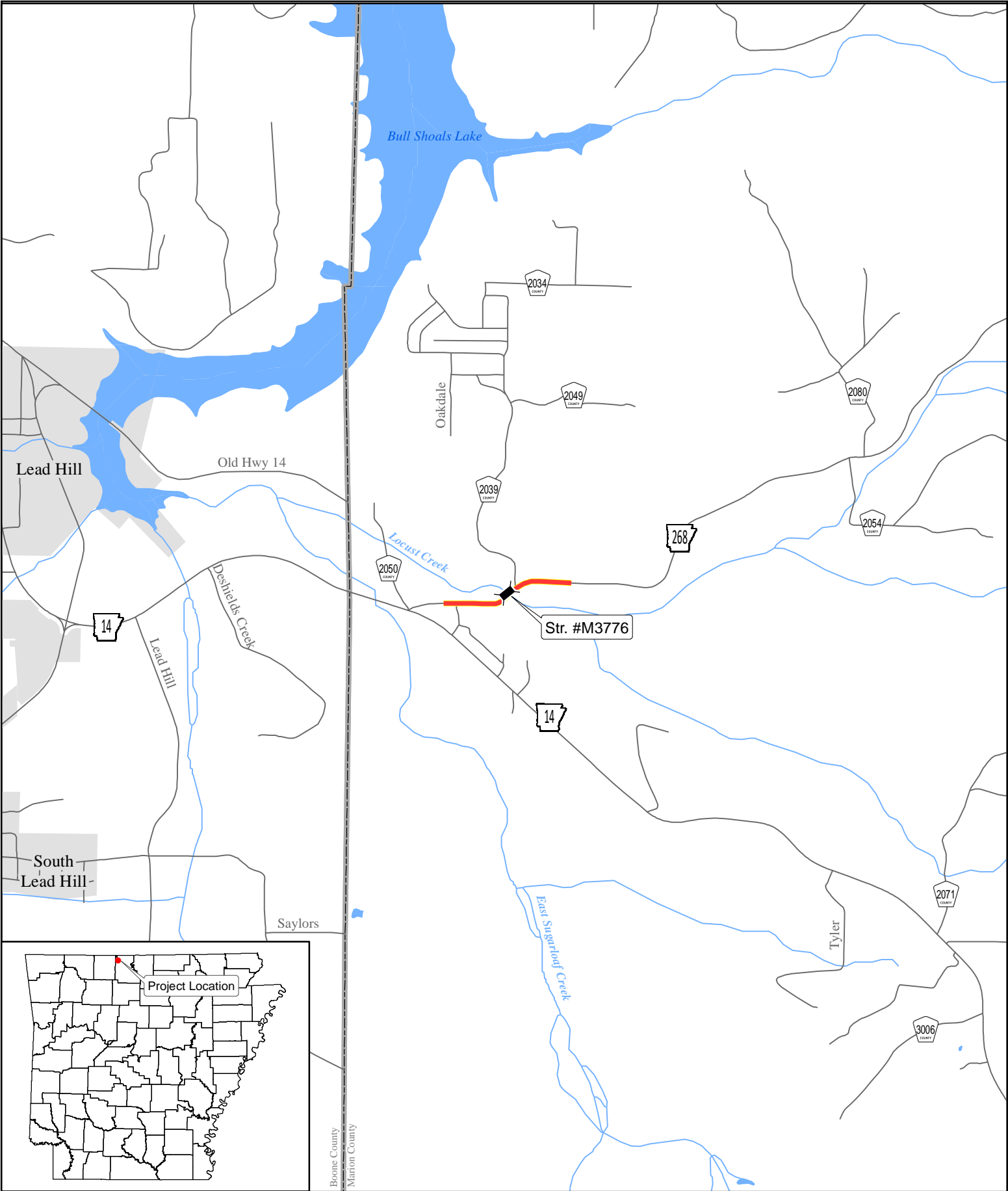
This project has been determined to generate minimal air quality impacts for Clean Air Act criteria pollutants and has not been linked with any special mobile source air toxic (MSAT) concerns. As such, this project will not result in changes in traffic volumes, vehicle mix, basic project location, or any other factor that would cause a meaningful increase in MSAT impacts of the project from that of the no-build alternative.

The official species list obtained through the U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) website identifies the following species as potentially occurring in the project area: Missouri bladderpod (*Physaris filiformis*), gray bat (*Myotis grisescens*), Indiana bat (*Myotis sodalis*), Ozark big-eared bat (*Corynorhinus townsendii ingens*), and northern long-eared bat (*Myotis septentrionalis*). It has been determined that the project will have "no effect" on the Missouri bladderpod due to the lack of suitable habitat in the project area. The USFWS's official species list is attached.

A bat survey was conducted and no federally listed bat species were caught. It has been determined that the project will have "no effect" on the gray bat and the Ozark big-eared bat due to the lack of known occurrences near the project area. Utilizing the *FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat*, it has been determined that the project "may affect, but is not likely to adversely affect" both the Indiana bat and the northern long-eared bat. The ARDOT bat survey report, Species List and Consistency Letter generated from IPaC, and USFWS concurrence letter are attached.


Extraordinary Resource Waterbodies are located within one mile of the project area, and a Section 401 Water Quality Certification will be required. Water Pollution Control, Vegetated Buffer, and Wellhead Protection Area Special Provisions will be needed. Permanent and temporary impacts to waters of the U.S. are estimated to be less than 0.1 acre. Construction of the proposed project should be allowed under the terms of a Nationwide 14 Section 404 Permit for Linear Transportation Projects as defined in the Federal Register 82(4):1860-2008.

No other adverse environmental impacts were identified. The checklist used to verify consideration of potential environmental impacts is attached.



ARDOT - Environmental GIS - Hopkins
June 25, 2019

Job 090551
Locust Creek Str. & Apprs.
(Hwy. 268)
Marion County

 Project Location



THE DEPARTMENT OF ARKANSAS
HERITAGE

Asa Hutchinson
Governor

Stacy Hurst
Director

June 4, 2019

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

Arkansas Arts Council

*

Arkansas Historic
Preservation Program

*

Arkansas Natural
Heritage Commission

*

Arkansas State Archives

*

Delta Cultural Center

*

Historic Arkansas Museum

*

Mosaic Templars
Cultural Center

*

Old State House Museum

RE: Marion County — General
Section 106 Review — FHWA
Response Letter: Locust Creek Str. & Apprs. (S)
Route 268, Section 0
ARDOT Job Number: 090551
AHPP Tracking Number: 103831.01

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 Number M3776 in Sections 3 and 10, Township 20 North, Range 18 West. The property is a concrete channel beam bridge dating from 1965. In correspondence dated May 21, 2019 (AHPP Tracking Number 103831) the AHPP concurred that the structure is not eligible for listing in the National Register of Historic Places.

There are no finalized design plans at the time of this review. Therefore, the AHPP understands the Arkansas Department of Transportation (ARDOT) employed an expansive area of investigation to account for potential design options. The project length is 660 meters covering an area of 13.5 acres (5.5 hectares).

The investigation noted steep slopes and rocky soils in the southwest quadrant of the project corridor, evidence of frequent inundation in the lower elevations, and eroded rocky soils in the higher terraced areas. ARDOT personnel excavated shovel tests on the north and south sides of Highway 268 through the project corridor. Shovel testing, pedestrian survey, and background research failed to identify any cultural resources.

Based on the provided information, 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 Absentee Shawnee Tribe of Oklahoma (Ms. Devon Frazier), the Caddo Nation (Ms. Tamara Francis), the Cherokee Nation of Oklahoma (Ms. Elizabeth Toombs), the Eastern Shawnee Tribe of Oklahoma (Mr. Brett Barnes), the Osage Nation



1100 North Street
Little Rock, AR 72201

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

info@arkansaspreservation.org
www.arkansaspreservation.com

(Dr. Andrea Hunter), the Quapaw Nation (Mr. Everett Bandy), the Shawnee Tribe of Oklahoma (Ms. Tonya Tipton), the United Keetoowah Band of Cherokee Indians (Ms. Erin Thompson and Charlotte Wolfe), and the Wichita and Affiliated Tribes (Mr. Gary McAdams). 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.

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) Job 090551	3. Date of Land Evaluation Request 7/29/19	4. Sheet 1 of
--	--	---------------

1. Name of Project Locust Creek Str. & Apprs. (Hwy. 268)	5. Federal Agency Involved FHWA
--	---------------------------------

2. Type of Project Bridge Replacement	6. County and State Marion AR.
---------------------------------------	--------------------------------

PART II (To be completed by NRCS)	1. Date Request Received by NRCS	2. Person Completing Form
--	----------------------------------	---------------------------

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
---	--

5. Major Crop(s)	6. Farmable Land in Government Jurisdiction Acres: %	7. Amount of Farmland As Defined in FPPA Acres: %
------------------	---	--

8. Name Of Land Evaluation System Used	9. Name of Local Site Assessment System	10. Date Land Evaluation Returned by NRCS
--	---	---

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				
--	--	--	--	--

B. Total Acres Statewide And Local Important Farmland	4.8			
---	-----	--	--	--

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				
--	----------------	--	--	--	--

1. Area in Nonurban Use	15	15			
-------------------------	----	----	--	--	--

2. Perimeter in Nonurban Use	10	10			
------------------------------	----	----	--	--	--

3. Percent Of Corridor Being Farmed	20	5			
-------------------------------------	----	---	--	--	--

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			
--	----	---	--	--	--

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	35			
---	-----	----	--	--	--

X _____ l of above 2 lines)	260	135			
-----------------------------	-----	-----	--	--	--

ing	2. Total Acres of Farmlands to be Converted by Project: 4.8 acres of Farmland of Statewid Importance	3. Date Of Selection:	4. Was A Local Site Assessment Used? YES <input type="checkbox"/> NO <input type="checkbox"/>
-----	--	-----------------------	--

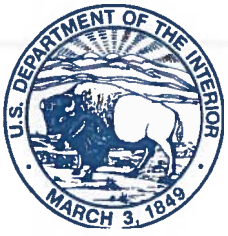
5. Reason For Selection:

Signature of Person Completing this Part: _____ DATE _____

John Baber

7/29/19

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



IN REPLY REFER TO:

United States Department of the Interior

FISH AND WILDLIFE SERVICE

Arkansas Ecological Service Field Office
110 South Amity Road, Suite 300
Conway, Arkansas 72032



July 15, 2019

Mr. John Fleming
c/o Kayti Ewing
Arkansas Department of Transportation
10324 Interstate 30
Little Rock, Arkansas 72209

Consultation Code: 04ER1000-2019-I-1119

Dear Mr. Fleming,

The U.S. Fish and Wildlife Service (Service) is responding to your request dated July 8, 2019, regarding Arkansas Department of Transportation (ArDOT) Job # 090551, Locust Creek Str. & Apprs., in Marion County, Arkansas. The project was described and assessed as follows (abbreviated):

The Arkansas Department of Transportation is proposing to replace the existing bridge over Locust Creek in Marion County, Arkansas.

The official species list obtained through the U.S. Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) website identifies the following as potentially occurring in the project area: Missouri Bladderpod (*Physaris filiformis*), Gray Bat (*Myotis grisescens*), Indiana Bat (*Myotis sodalis*), Ozark Big-eared Bat (*Corynorhinus townsendii ingens*), and Northern Long-eared Bat (*Myotis septentrionalis*). See the attached species list. A 'no effect' determination was made for the Missouri Bladderpod due to the lack of suitable habitat in the project area. A "no effect" determination was made for the Gray Bat and the Ozark Big-eared Bat due to the lack of known occurrences near the project area. Also, a bat survey was conducted and no federally listed bat species were caught. Please see the attached ArDOT bat survey report. We request your concurrence with our determination.

A "may affect, but is not likely to adversely affect" determination was made for the Northern Long-eared Bat and the Indiana Bat. A bat survey was conducted and no federally listed bat species were caught; however, the proposed project will temporarily remove any potential foraging habitat, and may disrupt foraging during construction. See the attached consistency letter for the Indiana Bat and Northern Long-eared Bat. The final 4(d) rule applies to the project's activities that have the potential to affect Northern Long-eared Bats. The final 4(d) rule exempts the incidental take of Northern Long-eared Bats from take prohibitions in the Endangered Species Act. The exemptions apply as long as the activities do

not occur within 0.25 mile of a known hibernaculum or within 150 feet of a known occupied maternity roost from June 1 to July 31. No known hibernacula or maternity roosts exist within the project limits; therefore, the project applies. All offsite locations will require separate coordination with USFWS.

The Service has reviewed your determination that the proposed action will not result in any prohibited incidental take for Northern Long-eared Bat. This project may affect the Northern Long-eared Bat; however, there are no effects beyond those previously disclosed in the Service's programmatic biological opinion for the final 4(d) rule dated January 5, 2016. Any taking that may occur incidental to this project is not prohibited under the final 4(d) rule (50 CFR§17.40(o)).

This project is consistent with the description of the proposed action in the programmatic biological opinion, and the 4(d) rule does not prohibit incidental take of the Northern Long-eared Bat that may occur as a result of this project. Therefore, the programmatic biological opinion satisfies the "action agency" responsibilities under ESA section 7(a)(2) relative to the Northern Long-eared Bat for this project.

Please keep in mind that you must report any departures from the plans submitted; results of any surveys conducted; or any dead, injured, or sick Northern Long-eared Bats that are found to this office. If this project is not completed within one year of this letter, you must update your determination and resubmit the required information.

The Service has received your concurrence verification letter and request to verify that the Proposed Action may rely on the concurrence provided in the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 et seq.).

Based on the information you provided, you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, may affect, but is not likely to adversely affect (NLAA) the Indiana Bat.

The Service concurs that this action may rely on the PBO. Furthermore, due to the limited size of the area being affected along existing bridges, roadway and adjacent new right-of-way, the distance to known species locations or hibernacula, the implementation of BMPs, the negative bat presence survey results, mitigation provided, and the standard provisions for stream sediment control and water quality conservation measures, the Service agrees with your determinations of "not likely to adversely affect" for Indiana Bat. The Service also agrees with your assessment for all other listed species identified. No further consultation is necessary at this time.

If the Proposed Action is modified, or new information reveals that it may affect the Indiana Bat and/or Northern Long-eared Bat in a manner or to an extent not considered in the PBO, further

Mr. John Fleming

3

review to conclude the requirements of ESA Section 7(a)(2) may be required. If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation is required. If the proposed action has the potential to take Bald or Golden Eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

For further assistance or if you have any questions, please contact Lindsey Lewis at (501) 513-4489 or lindsey_lewis@fws.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Melvin L. Tobin".

Melvin L. Tobin
Field Supervisor

cc: Project File
Read File

Filename: C:\Users\lilewis\Documents\PROJECTS\FY2019\ARDOT\Job # 090551, Locust Creek Str. & Apprs\AFO Letter -Job 090551-Locust Creek Str Apprs - Comments.docx



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Arkansas Ecological Services Field Office
110 South Amity Suite 300
Conway, AR 72032-8975
Phone: (501) 513-4470 Fax: (501) 513-4480
<http://www.fws.gov/arkansas-es>

In Reply Refer To:
Consultation Code: 04ER1000-2019-SLI-1119
Event Code: 04ER1000-2019-E-02197
Project Name: 090551_Locust Creek Str. & Apprs.

July 08, 2019

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies endangered, threatened, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). **This letter only provides an official species list and technical assistance; if you determine that listed species and/or designated critical habitat may be affected in any way by the proposed project, even if the effect is wholly beneficial, consultation with the Service will be necessary.**

If you determine that this project will have no effect on listed species and their habitat in any way, then you have completed Section 7 consultation with the Service and may use this letter in your project file or application.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found on our website.

Please visit our website at <http://www.fws.gov/arkansas-es/IPaC/home.html> for species-specific guidance to avoid and minimize adverse effects to federally endangered,

threatened, proposed, and candidate species. Our web site also contains additional information on species life history and habitat requirements that may be useful in project planning.

If your project involves in-stream construction activities, oil and natural gas infrastructure, road construction, transmission lines, or communication towers, please review our project specific guidance at <http://www.fws.gov/arkansas-es/IPaC/ProjSpec.html>.

The karst region of Arkansas is a unique region that covers the **northern third of Arkansas** and we have specific guidance to conserve sensitive cave-obligate and bat species. **Please visit <http://www.fws.gov/arkansas-es/IPaC/Karst.html> to determine if your project occurs in the karst region and to view karst specific-guidance.** Proper implementation and maintenance of best management practices specified in these guidance documents is necessary to avoid adverse effects to federally protected species and often avoids the more lengthy formal consultation process.

If your species list includes any mussels, Northern Long-eared Bat, Indiana Bat, Yellowcheek Darter, Red-cockaded Woodpecker, or American Burying Beetle, your project may require a presence/absence and/or habitat survey prior to commencing project activities. Please check the appropriate species-specific guidance on our website to determine if your project requires a survey. We strongly recommend that you contact the appropriate staff species lead biologist (see office directory or species page) prior to conducting presence/absence surveys to ensure the appropriate level of effort and methodology.

Under the ESA, it is the responsibility of the Federal action agency or its designated representative to determine if a proposed action "may affect" endangered, threatened, or proposed species, or designated critical habitat, and if so, to consult with the Service further. Similarly, it is the responsibility of the Federal action agency or project proponent, not the Service, to make "no effect" determinations. If you determine that your proposed action will have "no effect" on threatened or endangered species or their respective critical habitat, you do not need to seek concurrence with the Service. Nevertheless, it is a violation of Federal law to harm or harass any federally-listed threatened or endangered fish or wildlife species without the appropriate permit.

Through the consultation process, we will analyze information contained in a biological assessment that you provide. If your proposed action is associated with Federal funding or permitting, consultation will occur with the Federal agency under section 7(a)(2) of the ESA. Otherwise, an incidental take permit pursuant to section 10(a)(1)(B) of the ESA (also known as a habitat conservation plan) is necessary to harm or harass federally listed threatened or endangered fish or wildlife species. In either case, there is no mechanism for authorizing incidental take "after-the-fact." For more information regarding formal consultation and HCPs, please see the Service's Consultation Handbook and Habitat Conservation Plans at www.fws.gov/endangered/esa-library/index.html#consultations.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to

federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, **the accuracy of this species list should be verified after 90 days.** This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. **Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.**

Attachment(s):

- Official Species List
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Arkansas Ecological Services Field Office

110 South Amity Suite 300

Conway, AR 72032-8975

(501) 513-4470

Project Summary

Consultation Code: 04ER1000-2019-SLI-1119

Event Code: 04ER1000-2019-E-02197

Project Name: 090551_Locust Creek Str. & Apprs.

Project Type: BRIDGE CONSTRUCTION / MAINTENANCE

Project Description: The proposed project will replaced the existing bridge over Locust Creek, either on existing location, to the north of the existing bridge, or to the south.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/36.40612968177136N92.87817437267584W>



Counties: Marion, AR

Endangered Species Act Species

There is a total of 5 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Gray Bat <i>Myotis grisescens</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6329	Endangered
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949	Endangered
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened
Ozark Big-eared Bat <i>Corynorhinus (=Plecotus) townsendii ingens</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/7245	Endangered

Flowering Plants

NAME	STATUS
Missouri Bladderpod <i>Physaria filiformis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5361	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Arkansas Ecological Services Field Office
110 South Amity Suite 300
Conway, AR 72032-8975
Phone: (501) 513-4470 Fax: (501) 513-4480
<http://www.fws.gov/arkansas-es>

In Reply Refer To:

July 11, 2019

Consultation Code: 04ER1000-2019-I-1119

Event Code: 04ER1000-2019-E-02256

Project Name: 090551_Locust Creek Str. & Apprs.

Subject: Concurrence verification letter for the '090551_Locust Creek Str. & Apprs.' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request dated to verify that the **090551_Locust Creek Str. & Apprs.** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, may affect, but is not likely to adversely affect (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the threatened Northern long-eared bat (*Myotis septentrionalis*).

The Service has 14 calendar days to notify the lead Federal action agency or designated non-federal representative if we determine that the Proposed Action does not meet the criteria for a NLAA determination under the PBO. If we do not notify the lead Federal action agency or designated non-federal representative within that timeframe, you may proceed with the Proposed Action under the terms of the NLAA concurrence provided in the PBO. This verification period allows Service Field Offices to apply local knowledge to implementation of the PBO, as we may identify a small subset of actions having impacts that were unanticipated. In such instances, Service Field Offices may request additional information that is necessary to verify inclusion of the proposed action under the PBO.

For Proposed Actions that include bridge/structure removal, replacement, and/or maintenance activities: If your initial bridge/structure assessments failed to detect Indiana bats, but you later detect bats during construction, please submit the Post Assessment Discovery of Bats at Bridge/Structure Form (User Guide Appendix E) to this Service Office. In these instances, potential incidental take of Indiana bats may be exempted provided that the take is reported to the Service.

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or Northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required. If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation is required. If the proposed action has the potential to take bald or golden eagles, additional coordination with the Service under the Bald and Golden Eagle Protection Act may also be required. In either of these circumstances, please contact this Service Office.

The following species may occur in your project area and **are not** covered by this determination:

- Gray Bat, *Myotis grisescens* (Endangered)
 - Missouri Bladderpod, *Physaria filiformis* (Threatened)
 - Ozark Big-eared Bat, *Corynorhinus (=Plecotus) townsendii ingens* (Endangered)
-

Project Description

The following project name and description was collected in IPaC as part of the endangered species review process.

Name

090551_Locust Creek Str. & Apprs.

Description

The proposed project will replaced the existing bridge over Locust Creek, either on existing location, to the north of the existing bridge, or to the south.

Determination Key Result

Based on your answers provided, this project(s) may affect, but is not likely to adversely affect the endangered Indiana bat and/or the threatened Northern long-eared bat. Therefore, consultation with the U.S. Fish and Wildlife Service pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended 16 U.S.C. 1531 *et seq.*) is required. However, also based on your answers provided, this project may rely on the concurrence provided in the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat.

Qualification Interview

1. Is the project within the range of the Indiana bat^[1]?

[1] See [Indiana bat species profile](#)

Automatically answered

Yes

2. Is the project within the range of the Northern long-eared bat^[1]?

[1] See [Northern long-eared bat species profile](#)

Automatically answered

Yes

3. Which Federal Agency is the lead for the action?

A) Federal Highway Administration (FHWA)

4. Are *all* project activities limited to non-construction^[1] activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)

[1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting.

No

5. Does the project include *any* activities that are **greater than** 300 feet from existing road/rail surfaces^[1]?

[1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

No

6. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum^[1]?

[1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

No

7. Is the project located **within** a karst area?

Yes

8. Will the project include *any* type of activity that could impact a **known** hibernaculum^[1], or impact a karst feature (e.g., sinkhole, losing stream, or spring) that could result in effects to a **known** hibernaculum?

[1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

No

9. Is there *any* suitable^[1] summer habitat for Indiana Bat or NLEB **within** the project action area^[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

[2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the [national consultation FAQs](#).

Yes

10. Will the project remove *any* suitable summer habitat^[1] and/or remove/trim any existing trees **within** suitable summer habitat?

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

Yes

11. Will the project clear more than 20 acres of suitable habitat per 5-mile section of road/rail?

No

12. Have presence/probable absence (P/A) summer surveys^{[1][2]} been conducted^{[3][4]} **within** the suitable habitat located within your project action area?

[1] See the Service's [summer survey guidance](#) for our current definitions of suitable habitat.

[2] Presence/probable absence summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate distance from hibernacula) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.

[3] For projects within the range of either the Indiana bat or NLEB in which suitable habitat is present, and no bat surveys have been conducted, the transportation agency will assume presence of the appropriate species. This assumption of presence should be based upon the presence of suitable habitat and the capability of bats to occupy it because of their mobility.

[4] Negative presence/probable absence survey results obtained using the [summer survey guidance](#) are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

Yes

SUBMITTED DOCUMENTS

- *ARDOT Job 090551v2.pdf* <https://ecos.fws.gov/ipac/project/X7EEJUFXYZF7VEOAYRAT5TQORO/projectDocuments/17353168>

13. Did the presence/probable absence (P/A) summer surveys detect Indiana bats and/or NLEB^[1]?

[1] P/A summer surveys conducted within the fall swarming/spring emergence home range of a documented Indiana bat hibernaculum (contact local Service Field Office for appropriate home range) that result in a negative finding requires additional consultation with the local Service Field Office to determine if clearing of forested habitat is appropriate and/or if seasonal clearing restrictions are needed to avoid and minimize potential adverse effects on fall swarming and spring emerging Indiana bats.

No

14. Were the P/A summer surveys conducted **within** the fall swarming/spring emergence range of a documented Indiana bat hibernaculum^[1]?

[1] Contact the local Service Field Office for appropriate distance from hibernacula.

No

15. Does the project include activities **within documented Indiana bat habitat**^{[1][2]}?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

16. Will the removal or trimming of habitat or trees occur **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors?

Yes

17. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors occur^[1]?

[1] Coordinate with the local Service Field Office for appropriate dates.

C) During both the active and inactive seasons

18. When in the active season will the removal or trimming of habitat or trees occur **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors?

C) During the active season both during and outside of the period May 1 to July 31

19. Will the removal or trimming of habitat or trees **within** suitable but **undocumented Indiana bat** roosting/foraging habitat or travel corridors that occurs between May 1 and July 31 be limited such that all trees can be visually assessed for use by bats?

Yes

20. Does the project include activities **within documented NLEB habitat**^{[1][2]}?

[1] Documented roosting or foraging habitat – for the purposes of this consultation, we are considering documented habitat as that where Indiana bats and/or NLEB have actually been captured and tracked using (1) radio telemetry to roosts; (2) radio telemetry biangulation/triangulation to estimate foraging areas; or (3) foraging areas with repeated use documented using acoustics. Documented roosting habitat is also considered as suitable summer habitat within 0.25 miles of documented roosts.)

[2] For the purposes of this key, we are considering documented corridors as that where Indiana bats and/or NLEB have actually been captured and tracked to using (1) radio telemetry; or (2) treed corridors located directly between documented roosting and foraging habitat.

No

21. Will the removal or trimming of habitat or trees occur **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors?

Yes

22. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors occur?

C) During both the active and inactive seasons

23. Are *any* trees being removed **greater than** 9 inches diameter at breast height (dbh)?

Yes

24. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces?

Yes

25. Will the tree removal alter *any* **documented** Indiana bat or NLEB roosts and/or alter any surrounding summer habitat **within** 0.25 mile of a documented roost?

No

26. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

Yes

27. Are *all* trees that are being removed clearly demarcated?

Yes

28. Will the removal of habitat or the removal/trimming of trees involve the use of **temporary** lighting?

No

29. Will the removal of habitat or the removal/trimming of trees include installing new or replacing existing **permanent** lighting?

No

30. Does the project include wetland or stream protection activities associated with compensatory wetland mitigation?

No

31. Does the project include slash pile burning?

Yes

32. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)?

Yes

33. Is there *any* suitable habitat^[1] for Indiana bat or NLEB **within** 1,000 feet of the bridge? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)

[1] See the Service's current [summer survey guidance](#) for our current definitions of suitable habitat.

Yes

34. Has a bridge assessment^[1] been conducted **within** the last 24 months^[2] to determine if the bridge is being used by bats?

[1] See [User Guide Appendix D](#) for bridge/structure assessment guidance

[2] Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges that meet the physical characteristics described in the Programmatic Consultation, regardless of whether assessments have been conducted in the past. Due to the transitory nature of bat use, a negative result in one year does not guarantee that bats will not use that bridge/structure in subsequent years.

Yes

SUBMITTED DOCUMENTS

- *M3776InpsRpt2018.08 002.pdf* <https://ecos.fws.gov/ipac/project/X7EEJUFXYZF7VEOAYRAT5TQORQ/projectDocuments/17353544>
- *AppDBridgeStructureAssessmentForm_090551.pdf* <https://ecos.fws.gov/ipac/project/X7EEJUFXYZF7VEOAYRAT5TQORQ/projectDocuments/17353594>

35. Did the bridge assessment detect *any* signs of Indiana bats and/or NLEBs roosting in/under the bridge (bats, guano, etc.)^[1]?

[1] If bridge assessment detects signs of *any* species of bats, coordination with the local FWS office is needed to identify potential threatened or endangered bat species. Additional studies may be undertaken to try to identify which bat species may be utilizing the bridge prior to allowing *any* work to proceed.

Note: There is a small chance bridge assessments for bat occupancy do not detect bats. Should a small number of bats be observed roosting on a bridge just prior to or during construction, such that take is likely to occur or does occur in the form of harassment, injury or death, the PBO requires the action agency to report the take. Report all unanticipated take within 2 working days of the incident to the USFWS. Construction activities may continue without delay provided the take is reported to the USFWS and is limited to 5 bats per project.

No

36. Will the bridge removal, replacement, and/or maintenance activities include installing new or replacing existing **permanent** lighting?

No

37. Does the project include the removal, replacement, and/or maintenance of *any* structure other than a bridge? (e.g., rest areas, offices, sheds, outbuildings, barns, parking garages, etc.)

No

38. Will the project involve the use of **temporary** lighting *during* the active season?

No

39. Will the project install new or replace existing **permanent** lighting?

No

40. Does the project include percussives or other activities (**not including tree removal/trimming or bridge/structure work**) that will increase noise levels above existing traffic/background levels?

No

41. Are *all* project activities that are **not associated with** habitat removal, tree removal/trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives, limited to actions that DO NOT cause any additional stressors to the bat species?

Examples: lining roadways, unlighted signage, rail road crossing signals, signal lighting, and minor road repair such as asphalt fill of potholes, etc.

Yes

42. Will the project raise the road profile **above the tree canopy**?

No

43. Is the slash pile burning portion of this project consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because it is near suitable habitat and >0.5 miles from any hibernaculum

44. Are the project activities that are not associated with habitat removal, tree removal/trimming, bridge and/or structure activities, temporary or permanent lighting, or use of percussives consistent with a No Effect determination in this key?

Automatically answered

Yes, other project activities are limited to actions that DO NOT cause any additional stressors to the bat species as described in the BA/BO

45. Is the location of this project consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because no bats were detected during presence/probable absence surveys conducted during the summer survey season and outside of the fall swarming/spring emergence periods. Additionally, all activities were at least 0.5 miles from any hibernaculum.

46. Is the bridge removal, replacement, or maintenance activities portion of this project consistent with a No Effect determination in this key?

Automatically answered

Yes, because the bridge has been assessed using the criteria documented in the BA and no signs of bats were detected

47. **General AMM 1**

Will the project ensure *all* operators, employees, and contractors working in areas of known or presumed bat habitat are aware of *all* FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable Avoidance and Minimization Measures?

Yes

48. **Hibernacula AMM 1**

Will the project ensure that on-site personnel will use best management practices^[1], secondary containment measures, or other standard spill prevention and countermeasures to avoid impacts to possible hibernacula?

[1] Coordinate with the appropriate Service Field Office on recommended best management practices for karst in your state.

Yes

49. **Hibernacula AMM 1**

Will the project ensure that, where practicable, a 300 foot buffer will be employed to separate fueling areas and other major containment risk activities from caves, sinkholes, losing streams, and springs in karst topography?

Yes

Project Questionnaire

1. Have you made a No Effect determination for *all* other species indicated on the FWS IPaC generated species list?

Yes

2. Have you made a May Affect determination for *any* other species on the FWS IPaC generated species list?

Yes

3. How many acres^[1] of trees are proposed for removal between 0-100 feet of the existing road/rail surface?

[1] If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

1.5

4. How many acres^[1] of trees are proposed for removal between 100-300 feet of the existing road/rail surface?

[1] If described as number of trees, multiply by 0.09 to convert to acreage and enter that number.

1.0

5. Please describe the proposed bridge work:

The proposed bridge will be replaced on either 1. existing location, 2. to the north of the existing bridge, or 3. to the south of the existing bridge. If on existing location a temporary detour will be used. If not on existing location, the existing bridge will be utilized for maintenance of traffic during construction.

6. Please state the timing of all proposed bridge work:

During both the active and inactive season

7. Please enter the date of the bridge assessment:

20180801

Avoidance And Minimization Measures (AMMs)

This determination key result includes the commitment to implement the following Avoidance and Minimization Measures (AMMs):

GENERAL AMM 1

Ensure all operators, employees, and contractors working in areas of known or presumed bat habitat are aware of all FHWA/FRA/FTA (Transportation Agencies) environmental commitments, including all applicable AMMs.

HIBERNACULA AMM 1

For projects located within karst areas, on-site personnel will use best management practices, secondary containment measures, or other standard spill prevention and countermeasures to avoid impacts to possible hibernacula. Where practicable, a 300 foot buffer will be employed to separate fueling areas and other major containment risk activities from caves, sinkholes, losing streams, and springs in karst topography.

Determination Key Description: FHW A, FRA, FTA Programmatic Consultation For Transportation Projects Affecting NLEB Or Indiana Bat

This key was last updated in IPaC on March 16, 2018. Keys are subject to periodic revision.

This decision key is intended for projects/activities funded or authorized by the Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and/or Federal Transit Administration (FTA), which require consultation with the U.S. Fish and Wildlife Service (Service) under Section 7 of the Endangered Species Act (ESA) for the endangered **Indiana bat** (*Myotis sodalis*) and the threatened **Northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should only be used to verify project applicability with the Service's [February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects](#). The programmatic biological opinion covers limited transportation activities that may affect either bat species, and addresses situations that are both likely and not likely to adversely affect either bat species. This decision key will assist in identifying the effect of a specific project/activity and applicability of the programmatic consultation. The programmatic biological opinion is not intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.

APPENDIX D: Bridge/Structure Assessment Form

This form will be completed and submitted to the District Environmental Manager by the Contractor prior to conducting any work below the deck surface either from the underside; from activities above that bore down to the underside; from activities that could impact expansion joints; from deck removal on bridges; or from structure demolition for bridges/structures within 1000 feet of suitable bat habitat.

DOT Project # 090551	Water Body Locust Creek	Date/Time of Inspection 2018/08/01	Within 1,000ft of suitable bat habitat (circle one) <input checked="" type="radio"/> Yes <input type="radio"/> No
--------------------------------	-----------------------------------	--	--

Route	County	Federal Structure ID
268	Marion	M3776

If the bridge/structure is 1,000 feet or more from suitable bat habitat (e.g., an urban or agricultural area without suitable foraging habitat or corridors linking the bridge to suitable foraging habitat), check box and STOP HERE. No assessment required.

Please submit to the U.S. Fish and Wildlife Service.

Areas Inspected (Check all that apply)

Bridges		Culverts/Other Structures		Summary Info (circle all that apply)			
All vertical crevices sealed at the top and 0.5-1.25" wide & ≥4" deep	<input checked="" type="checkbox"/>	Crevices, rough surfaces or imperfections in concrete		Human disturbance or traffic under bridge/in culvert or at the structure	High	<input checked="" type="radio"/> Low	None
All crevices >12" deep & not sealed	<input checked="" type="checkbox"/>	Spaces between walls, ceiling joists		Possible corridors for netting	None/poor	<input checked="" type="radio"/> Marginal	Excellent
All guardrails	<input checked="" type="checkbox"/>						
All expansion joints	<input checked="" type="checkbox"/>						
Spaces between concrete end walls and the bridge deck	<input checked="" type="checkbox"/>						

Vertical surfaces on concrete I-beams	✓						
---------------------------------------	---	--	--	--	--	--	--

Evidence of Bats (Circle all that apply) Presence of one or more indicators is sufficient evidence that bats may be using the structure.

None

Visual (e.g. survey, thermal, emergent etc.)

- Live __ number seen
- Dead __ number seen

Photo documentation Y/N

Guano

Odor Y/N

Photo documentation Y/N

Staining definitively from bats

Photo documentation Y/N

Audible

Assessment Conducted By: <u> Kayti Ewing </u> Signature(s): <u> <i>Kayti Ewing</i> </u>
District Environmental Use Only: Date Received by District Environmental Manager: _____

DOT Bat Assessment Form Instructions

1. Assessments must be completed no more than 2 years prior to conducting any work below the deck surface on all bridges, regardless of whether assessments have been conducted in the past.
2. Any bridge/structure suspected of providing habitat for any species of bat will be removed from work schedules until such time that the DOT has coordinated with the USFWS. Additional studies may be undertaken by the DOT to determine what species may be utilizing each structure identified as supporting bats prior to allowing any work to proceed.
3. Any questions should be directed to the District Environmental Manager.

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

ARDOT Job Number 090551 FAP Number STPB-0045(32)

Job Title Locust Creek Str. & Apprs. (S)

Environmental Resource	None	Minimal	Major	Comments-required for each item
Air Quality	X			No air quality/MSAT concerns
Cultural Resources	X			SHPO concurrence (6/4/19) attached
Economic	X			No adverse impacts
Endangered Species		X		USFWS consultation. 'No effect' & NLAA determinations attached
Environmental Justice/Title VI	X			EJ populations not identified in project area
Fish and Wildlife		X		Temporary during construction
Floodplains	X			None in project footprint
Forest Service Property	X			None within project area
Hazardous Materials/Landfills	X			None identified in project footprint
Land Use		X		Max. of 9.5 acres new ROW
Migratory Birds		X		Migratory Bird SP added
Navigation/Coast Guard	X			No navigable waterways in project area
Noise Levels	X			No permanent noise impacts
Prime Farmland		X		Approx. 4.8 acres; NRCS Form Attached
Protected Waters	X			IWQC will be required due to ERWs within 1.0 mile of the project area. WPC SP and Vegetated buffer SP needed
Public Recreation Lands	X			None in project area
Public Water Supply/WHPA	X			Wellhead Protection SP needed
Relocatees	X			No relocations required
Section 4(f)/6(f)	X			4(f)/6(f) resources not in project area
Social	X			No adverse impacts
Underground Storage Tanks	X			None identified in project area
Visual	X			No adverse impacts
Streams		X		Total stream impacts less than 0.1 acre
Water Quality		X		Temporary during construction
Wetlands	X			None within project area
Wildlife Refuges	X			None within project area

Section 401 Water Quality Certification Required? Yes

Short-term Activity Authorization Required? Yes

Section 404 Permit Required? Yes Type NWP 14

Remarks: .

Signature of Evaluator Mary L. Pearson Date July 25, 2019

PROJECT DESIGN CRITERIA

DATE: May 8, 2019

REV.: _____

JOB NO: 090551 ROUTE / SECTION: 268/0 LENGTH: 0.28 mile COUNTY: Marion
 JOB NAME: Locust Creek Str. & Apprs. (S) MIN ORDER: 2018-080
 2020 ADT: 1000 2040 ADT: 1200 TRUCK: 2% 4-LANE GRID SYSTEM: No
 APHN: No INCENTIVE/DISINCENTIVE: No FUNCTIONAL CLASSIFICATION: Minor Collector

EXISTING CONDITIONS

ROADWAY WIDTH: 26' WIDTH OF TRAVELED WAY: 22' SHOULDERS (WIDTH/TYPE): 2' paved
 CRASH RATE: 3.04 STATEWIDE CRASH RATE: 1.07

BRIDGE INFORMATION

Bridge No.	Log Mile	Length x Width	Structure Type	BCI	Deck Rating	Superstructure Rating	Substructure Rating	Posted
M3776	0.31	69.0' x 22.0'	Concrete Channel Beam	64.28	5	5	4	5

* 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: None
 BRIDGE WIDTHS: 30'-0" DESIGN SPEED - RURAL: 55 MPH URBAN: N/A
 DEGREE OF ACCESS CONTROL: None CLEAR ZONE: 4:1 (24')
 LOCATION OF INTERCHANGES: N/A CHANNELIZED INTERSECTION: N/A
 TRAFFIC SIGNALS: N/A RR X-ING PROTECTION: N/A
 PREVIOUS PLANNING STUDY: N/A
 STUDY FINDING: N/A

RECOMMENDED TYPE FUNDS:

PRELIM COST ESTIMATE: ROADWAY: \$600,000 BRIDGE: \$400,000 TOTAL: \$1,000,000

REMARKS:

- Replace 1 structure.
- Use AASHTO Green Book

RECOMMENDED BY:

Charles Ellis: Charles R. Ellis

Trinity Smith: Trinity Smith

Date: 5/13/19

Date: 5/9/19

APPROVED BY:

Mike Fugett: [Signature]
 ACE-Design

Date: 5/14/19

(ATTACH NEW PROJECT MEMO AND LOCATION MAP)