FHWA-Indiana Environmental Document CATEGORICAL EXCLUSION / ENVIRONMENTAL ASSESSMENT FORM GENERAL PROJECT INFORMATION

Road No./County:	State Route (SR) 140, Rush and Henry Counties
Designation Number(s):	2002071
Project Description/Termini:	Bridge replacement project on SR 140 over Big Blue River, 0.68 mile south of US 40 in Rush and Henry Counties, IN. The limits of the project extend from 378 feet north of the north corner of CR 1200 N to 922-feet south of CR 1200 N, for a total of 1300 feet (including incidental construction), encompassing the SR 140 bridge over Big Blue River and approaches.

	Categorical Exclusion, Level 2 – Required Signatories: INDOT DE and/or INDOT ESD
Х	Categorical Exclusion, Level 3 – Required Signatories: INDOT ESD
	Categorical Exclusion, Level 4 – Required Signatories: INDOT ESD and FHWA
	Environmental Assessment (EA) – Required Signatories: INDOT ESD and FHWA
	Additional Investigation (AI) – The proposed action included a design change from the original approved environmental document. Required Signatories must include the appropriate environmental approval authority

Approval		
INDOT DE Signature ar	nd Date	NDOT ESD Signature and Date
FHWA Signature and	Date	
	N/A	ADWr September 17, 2024
Release for Public Involvement	INDOT DE Initials and Date	INDOT ESD Initials and Date
Certification of Public Involvement		
	INDOT Consultant S	ervices Signature and Date
INDOT DE/ESD Reviewer Signature and Date:		
Name and Organization of CE/EA Preparer:	April Arroyo-Monroe, Kaskaskia Eng	gineering Group, LLC

Note: Refer to the most current INDOT CE Manual, guidance language, and other ESD resources for further guidance regarding any section of this form.

County Rush and Henry

Route SR 140

Des. No. 2002071

Part I – Public Involvement

Every Federal action requires some level of public involvement, providing for early and continuous opportunities throughout the project development process. The level of public involvement should be commensurate with the proposed action.

Does the project have a historic bridge processed under the Historic Bridges PA*? If No, then:

Opportunity for a Public Hearing Required?

Yes	No
	Х
	Х

*A public hearing is required for all historic bridges processed under the Historic Bridges Programmatic Agreement between INDOT, FHWA, SHPO, and the ACHP.

Discuss what public involvement activities (legal notices, letters to affected property owners and residents (i.e. notice of entry), meetings, special purpose meetings, newspaper articles, etc.) have occurred for this project.

Notice of Entry letters were mailed to potentially affected property owners near the project area on August 30, 2021, notifying them about the project and that individuals responsible for land surveying and field activities may be seen in the area. A sample copy of the Notice of Entry letter is included in Appendix G (Page 1).

The project will meet the minimum requirements described in the current *Indiana Department of Transportation (INDOT) Project Development Public Involvement Procedures Manual* which requires the project sponsor to offer the public an opportunity to submit comments and/or request a public hearing. Therefore, a legal notice will appear in a local publication contingent upon the release of this document for public involvement. This document will be revised after the public involvement requirements are fulfilled.

Public Controversy on Environmental Grounds

Discuss public controversy concerning community and/or natural resource impacts, including what is being done during the project to minimize impacts.

At this time, there is no substantial public controversy concerning impacts to the community or to natural resources.

Part II - General Project Identification, Description, and Design Information

Sponsor of the Project:	INDOT District:	Greenfield	
Local Name of the Facility:			
Funding Source (mark all that	apply): Federal X State X Local	Other*	
*If other is selected, please id	entify the funding source:		

PURPOSE AND NEED:

The need should describe the specific transportation problem or deficiency that the project will address. The purpose should describe the goal or objective of the project. The solution to the traffic problem should NOT be discussed in this section.

The need for this project is due to the deterioration of the bridge (140-70-06039 B/ NBI 026970). Per the Indiana Department of Transportation's (INDOT's) November 18, 2022, Bridge inspection report (Appendix I, Page 1), overall, the bridge is in poor condition (condition rating of 4), on a scale from 0 (failed) to 9 (excellent). The post-tensioned precast deck panels are in serious condition (condition rating 3 out of possible 9) with scattered delaminations, spall, exposed rebar, and some full-depth holes. Copings have heavy spalls with rebar exposure. The wearing surface is in fair condition (5 out of 9) with wide transverse reflective cracks and spalling areas at joints between the precast panels. The continuous steel beams are in fair condition (5 out of 9) with areas of heavy spalling, and

This is page 2 of 23 Project name: SR 140 over Big Blue River Bridge Replacement Date: September 11, 2024

	male	ina Departine		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
County	Rush and Henry	Route SR 1	40	Des. No.	2002071
roots expo	ebar. The channel below the bridg used and trees leaning approximatel ase of the project is to address the with a minimum condition rating of 7	y 30 feet north of the overall deficienci	e structure. es associated with the br	ridge, and to	provide continued vehicular
PROJEC	T DESCRIPTION (PREFERREI	O ALTERNATIVE):		
County: Limits of P	of CR 1200 N, f	or a total of approx	n 180 feet north of the inte		R 1200 N to 922-feet south instruction), encompassing
Total	Work Length: <u>0.17</u> Mile(s)		Total Work Area:		
lf y	an Interstate Access Document (IAE res, when did the FHWA provide a E ceptability? ¹ If an IAD is required; a copy of the final approval of the IAD.	Determination of Er			Ves ¹ No X Date: WA with a request for
current defi	cation of project including township, ciencies, roadway description, surro d how the project will meet the Purp	unding features, et	c. Preferred alternative sh	ould include t	the scope of work, anticipated

The INDOT and the Federal Highway Administration (FHWA) intend to proceed with the bridge replacement project.

The project is located within Henry and Rush Counties, on SR 140 over Big Blue River, 0.68 mile south of US 40, Section 4 Township 16 North Range 9 East and Township 15 North Range 9 East Ripley Township, Rush and Henry Counties (Appendix B, Page 1).

This section of SR 140 is classified as a Rural Major Collector. Within the project limits, the roadway consists of 2 paved, 12-feet wide travel lanes (one north bound, one southbound) with 8-feet usable shoulders, 6-feet paved, 2-feet gravel up to/away from the approaches of bridge. The existing 241.50 feet long SR 140 bridge over Big Blue River (140-70-06039B/NBI 026970) is a 5-span continuous composite steel beam bridge with longitudinally post-tensioned prestressed concrete deck panels. The deck is 39-feet wide including the 7.5-feet concrete shoulders, with a 70-feet maximum span and a 13.24-feet clearance from the low structure to the flow line. The bridge width curb-to-curb is 36 feet, and the out-to-out width is 39 feet. The existing bridge was built in 1970 reusing the 1902 original bridge stone abutments. (Appendix I, Page 1). This bridge is not listed in INDOT's Historic Bridges Inventory and is not eligible for listing in the National Register of Historic Places.

The most recent INDOT Bridge Inspection Report (November 11, 2022) determined that the overall condition of the SR 140 over Big Blue River bridge is poor. The deck is in serious condition, with a condition rating of 3 (primary structure affected) on a scale from 0 (failed) to 9 (excellent). There are minor spalls at the panel joints, scattered delaminations, heavy spalls and exposed rebar on the copings below the drains, all of the panel brackets are heavily corroded along the top flanges of the beams (most have fallen off), full depth holes at some of the joints, some of the post-tensioning strands are heavily corroded or fractured in both directions at the ends, and there are panels fractured and they deflect as cars cross the southbound lane. The wearing surface is in fair condition (condition rating 5). There are wide longitudinal and transverse cracks at the joints between precast deck panels and there is some spalling. The superstructure is in fair condition (condition rating 5, minor section loss) with minor section loss, fairly heavy corrosion on some beams. The substructure is also in fair condition (condition rating 5, minor section loss) with areas of heavy spalling and exposed rebar, especially at the ends. The bank is eroded in the channel (condition rating 5, major damage). There is fairly heavy bank erosion with exposed roots and leaning trees (Appendix I, Page 6). Existing right of way varies from approximately 37 to 51 feet from centerline on the west side of SR 140 and from approximately 41 to 74 feet from centerline on the east side of SR 140.

The surrounding area consists of forest, rural residential, rural commercial, and row crop agriculture.

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County Rush and Henry Route	SR 140	Des. No.	2002071	
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The preferred alternative is to completely replace the bridge with a 3-span continuous composite prestressed concrete bulb-tee beam bridge and rebuild the approaches. The new bridge number will be 140-70-10811 and will be 262 feet long with an out-to-out width of 42 feet. Thirty feet of Class 2 rip rap, on Type 3 geotechnical cloth, will be placed on 3:1 slopes under the north and south sides of bridge. All existing guardrail will be removed and replaced with approximately 91 feet of guardrail at each corner. The new guardrail will be a Midwest guardrail system (MGS) with outside shoulder (OS) end treatments, placed after the concrete bridge rail transitions on the approach slabs. This alternative includes 196.5 linear feet of permanent impacts to a small perennial stream (UNT to Big Blue River) for scour protection and bank repair and relocating UNT to Big Blue River 15 feet east to avoid the riprap footprint. The total of new right-of-way (ROW) needed for this alternative is 1.15 acres acquired from all around the bridge. This ROW will be used to replace the structure, correct side slopes, reshape ditches, and access the streams. There were no wetlands found within the project area so no impacts to wetlands are expected. Also, no more than 0.91 acre of trees will need to be removed and mitigation will be completed. The streams, ROW and terrestrial habits, including mitigation, are discussed further in the individual sections of this document. The details for the new bridge and all other work discussed in this document are located on the plan sheets Appendix B pages 23-26.

The proposed maintenance-of-traffic (MOT) involves closing the road to traffic and using an 11.1 mile detour. The detour will follow US 40, SR 3, CR 900, and Rushville Rd (Appendix B Pages 29-30). The MOT for the project is discussed in further detail in the MOT During Construction section of this document.

This alternative satisfies both the purpose and need by removing all the deficiencies of the existing bridge by replacing it with a completely new bridge and setting the age of the structure to 0. This will provide a minimum of approximately 75 years of operation for the traveling public to cross Big Blue River using SR 140 at the same location.

This project is focused on SR 140 over Big Blue River bridge. The termini for the project and the subsequent review of its environmental impacts extend from approximately 180-feet north of the SR 140 intersection with CR 1200 N to 700-feet south of CR 1200 N, for a total of 700-feet (including incidental construction, all lengths are approximate), encompassing the SR 140 bridge over Big Blue River and approaches.

This project demonstrates independent utility because it will replace the existing SR 140 bridge over Big Blue River as an independent project and does not depend on any other planned projects.

OTHER ALTERNATIVES CONSIDERED:

Provide a header for each alternative. Describe all discarded alternatives, including the No Build Alternative. Explain why each discarded alternative was not selected. Make sure to state how each alternative meets or does not meet the Purpose and Need and why.

Do Nothing Alternative: The do nothing alternative involves allowing the bridge to continue to deteriorate until failure, resulting in an unsafe facility necessitating an unscheduled road closure. This will result in long-term impacts and loss of a safe facility for the traveling public. This neither meets the purpose nor need of the project.

Х

Х

Neither the Engineer's Report nor the INDOT scope mention rehabilitation as an alternative that was considered for this bridge.

The No Build Alternative is not feasible, prudent or practicable because (Mark all that apply):

It would not correct existing capacity deficiencies;

It would not correct existing safety hazards;

It would not correct the existing roadway geometric deficiencies;

It would not correct existing deteriorated conditions and maintenance problems; or

It would result in serious impacts to the motoring public and general welfare of the economy. Other (Describe):

ROADWAY CHARACTER:

If the proposed action includes multiple roadways, complete and duplicate for each roadway.

Name of Roadway SR 140						
Functional Classification:	Major Colle	ector				
Current ADT:	2365	VPD: 2025	Design Year ADT:	2365	VPD): 2045
This is page 4 of 23	Project name:	SR 140 over Big	Blue River Bridge Rep	lacement	Date:	September 11, 2024

Count	y Rush and Henry	Route	SR 140		Des. No.	2002071
-	a Hour Volume (DHV): 25 and Speed (mph): 30	7 Truck Perce mph Legal Speed		4.28% 50 mph		
		Existing		Proposed		
	Number of Lanes:	2		2		
	Type of Lanes:	12-foot travel lanes	6	12-foot travel lane	s	
	Pavement Width:	36	ft.	36	ft.	
	Shoulder Width:	6 ft paved	ft.	6 ft paved	ft.	
		2 ft unpaved		2 ft unpaved		
		Total 8 ft usable		Total 8 ft usable		
	Median Width:	0	ft.	0	ft.	
	Sidewalk Width:	0	ft.	0	ft.	
	Setting:	Urban Level	X	Suburban Rolling	X Rural Hilly	
BRID	GES AND/OR SMALL ST	RUCTURE(S):				
•	oposed action includes multi and proposed bridge(s) and			-	ge and/or small st	ructure. Include both
					. Poor B	ridge Inspection Report

Structure/NBI Number(s):

140-70-06039B/026970

Sufficiency Rating:

Poor, Bridge Inspection Report November 18, 2022

(Rating, Source of Information)

	Existing		Proposed	
Bridge/Structure Type:	continuous composite steel beam bridge		continuous composite prestressed concrete bulb-te beam bridge	
Number of Spans:		5		3
Weight Restrictions:	NA	ton	NA	ton
Height Restrictions:	NA	ft.	NA	ft.
Curb to Curb Width:	36	ft.	39.33	ft.
Outside to Outside Width:	39	ft.	42.33	ft.
Shoulder Width:	8	ft.	7.66	ft.

Describe impacts and work involving bridge(s), culvert(s), pipe(s), and small structure(s). Provide details for small structure(s): structure number, type, size (length and dia.), location and impacts to water. Use a table if the number of small structures becomes large. If the table exceeds a complete page, put it in the appendix and summarize the information below with a citation to the table.

The existing 5-span continuous composite steel beam bridge with longitudinally post-tensioned prestressed concrete deck panels SR 140 over Big Blue River bridge (140-70-06039B/NBI 026970) and all approaches will be replaced with a 3-span continuous composite prestressed concrete bulb-tee beam bridge and rebuild the approaches; new bridge number 140-70-10811. This bridge is not listed as historic on the Indiana Historic Bridges Inventory. No small structures or pipes are located within the project area.

MAINTENANCE OF TRAFFIC (MOT) DURING CONSTRUCTION:

	Yes	No
Is a temporary bridge proposed?		Х
Is a temporary roadway proposed?		Х
Will the project involve the use of a detour or require a ramp closure? (describe below)	Х	
Provisions will be made for access by local traffic and so posted.	Х	
Provisions will be made for through-traffic dependent businesses.	Х	
Provisions will be made to accommodate any local special events or festivals.	Х	
Will the proposed MOT substantially change the environmental consequences of the action?		Х
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County	Rush and Henry	Route	SR 140	Des. No.	2002071	
				-		

Is there substantial controversy associated with the proposed method for MOT? Will the project require a sidewalk, curb ramp, and/or bicycle lane closure? (describe below) Provisions will be made for access by pedestrians and/or bicyclist and so posted (describe below).

Yes	No
	Х
	Х
	X

sent to the PM (July 29, 2024).

Discuss closures, detours, and/or facilities (if any) that will be provided for maintenance of traffic. Any known impacts from these temporary measures should be quantified to the extent possible, particularly with respect to properties such as Section 4(f) resources and wetlands. Discuss any pedestrian/bicycle closures. Any local concerns about access and traffic flow should be detailed as well.

The MOT for the project is to close the road to traffic and use an 11.1-mile official detour route on US 40, SR 3, CR 900, and Rushville Rd. Lane closures will be in effect for no more than 12 months (Appendix B Pages 29-30). The official detour was created with the discussion and approval of INDOT and Rush County.

The lane restrictions will pose a temporary inconvenience to traveling motorists (including school buses and emergency services), however, no significant delays are anticipated, and all inconveniences and delays will cease upon project completion.

ESTIMATED PROJECT COST AND SCHEDULE:

Engineering: \$ 165,000* (2024) Right-of-Way: \$ 20,000* (2025) Construction: \$ 5,735,000* (2025) *A request to update the STIP has been

Anticipated Start Date of Construction: Spring 2025

RIGHT OF WAY:

	Amount (acres)			
Land Use Impacts		Permanent	Temporary	
Residential		NA	NA	
Commercial		NA	NA	
Agricultural		0.10	NA	
Forest		0.91	NA	
Wetlands		NA	NA	
Other: mowed roadside		0.14	NA	
Other:		NA	NA	
	TOTAL	1.15	NA	

Describe both Permanent and Temporary right-of-way and describe their current use. Typical and Maximum right-of-way widths (existing and proposed) should also be discussed. Any advance acquisition, reacquisition or easements, either known or suspected, and their impacts on the environmental analysis should be discussed.

The right-of-way (ROW) is measured from the centerline of the road. The existing right-of-way on the north side of CR 1200 N, is 40feet on the west side and 73-feet on the east side. On the south side of CR 1200 N, the existing ROW is 44 to 52-feet on the west side and 58 to 73-feet on the east side, up to and over the bridge. The existing ROW consists of forested, agricultural, riparian, and mowed roadside vegetation.

New ROW necessary for the project is 1.15 acres of permanent ROW, and no temporary ROW. Evey effort to avoid, minimize, and/or mitigate project impacts will be made. The permanent ROW impacts are 0.38 acre in the northwest quadrant, 0.35 acre in the southwest guadrant, 0.20 acre in the northeast guadrant (including 0.1 acre of farmland), and 0.22 acre in the southeast guadrant of the project area. The permanent ROW will be used to replace the structure, correct sideslopes and reshape ditches, place riprap, and clear the channel.

The new ROW limits will be 40 feet on the west side and 64 feet on the east side north of CR 1200 N. On the south side of CR 1200 N, the ROW will be from 85 to 100 feet on the west side and 100 feet on the east side up to and over the bridge. On the south side of the bridge, the new ROW limits will be from 100 feet to 55 on the west side and from 100 feet to 75 feet on the east side.

If the scope of work or permanent or temporary ROW amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately.

This is page 6 of 23 Project name:

County Rush and Henry

SR 140 Route

2002071 Des. No.

Part III - Identification and Evaluation of Impacts of the Proposed Action

SECTION A - EARLY COORDINATION:

List the date(s) coordination was sent and all resource agencies that were contacted as a part of the development of this Environmental Study. Also, include the date of their response or indicate that no response was received. Early coordination letters were sent on October 9, 2023 (Appendix C, Pages 1).

Agency	Date Sent	Response Date	Appendix
Indiana Geological and Water Survey	October 9, 2023	October 9, 20223	Appendix C, Page 5
National Resources Conversation Service (NRCS), State Conservationist	October 9, 2023	October 12, 2023	Appendix C, Page 8
Indiana Department of Environmental Management (IDEM),	October 9, 2023	October 13, 2023	Appendix C, Page 1
Groundwater Section	October 9, 2023	October 13, 2023	Appendix C, Fage T
Indiana Department of Natural Resources (IDNR), Division of Fish and Wildlife (DFW)	October 9, 2023	November 8, 2023	Appendix C, Page 1
US Fish and Wildlife Service (USFWS), Bloomington Indiana Field Office	October 9, 2023	December 5, 2023	Appendix C, Page 3
Federal Highway Administration (FHWA)	October 9, 2023	No response received	N/A
INDOT Greenfield Project Manager	October 9, 2023	No response received	N/A
Eighth Coast Guard District	October 9, 2023	No response received	N/A
Rush County Emergency Management Agency	October 9, 2023	No response received	N/A
INDOT Greenfield District Environmental Section Manager	October 9, 2023	No response received	N/A
US Army Corps of Engineers, Louisville District	October 9, 2023	No response received	N/A
National Park Service, Midwest Regional Office	October 9, 2023	No response received	N/A
US Department of Housing and Urban Development	October 9, 2023	No response received	N/A
Rush County, Northern District County Commissioner	October 9, 2023	No response received	N/A
Rush County, Planning and Zoning Department	October 9, 2023	No response received	N/A
IDEM Wetlands and Stormwater Section	October 9, 2023	No response received	N/A
Western Indiana Regional Planning Commission	October 9, 2023	No response received	N/A
Rush County Sherriff	October 9, 2023	No response received	N/A
Knights Town Police Department	October 9, 2023	No response received	N/A
Henry County Emergency Management Services	October 9, 2023	No response received	N/A
Presbyterian Church Bethel	October 9, 2023	No response received	N/A
Rush County, Ripley Township Trustee	October 9, 2023	No response received	N/A
Knightstown Town Council	October 9, 2023	No response received	N/A
Knightstown Water Utility	October 9, 2023	No response received	N/A
Knightstown Friend Church	October 9, 2023	No response received	N/A
Knightstown United Methodist	October 9, 2023	No response received	N/A
Rush County Surveyor	October 9, 2023	No response received	N/A
Rush County, County Council	October 9, 2023	No response received	N/A
Knights Town Clerk-Treasurer	October 9, 2023	No response received	N/A
Knightstown Fire Department	October 9, 2023	No response received	N/A
Knightstown High School	October 9, 2023	No response received	N/A
Knightstown Christian Church	October 9, 2023	No response received	N/A
Hoosier Youth Challenge Academy	October 9, 2023	No response received	N/A
IDNR Gas & Oil Inspector District 5	August 14, 2024	No response received	N/A

All applicable recommendations are included in the Environmental Commitments section of this CE document.

SR 140 over Big Blue River Bridge Replacement Date: September 11, 2024

Indiana	Department of	Transportation
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County	Rush and	d Henry	Route	<u> </u>	Des.	No. 20020	71		
SECTION	B – ECC	LOGICAL RE	SOURCES:						
	Federal W State Natu Nationwide Outstandir	ild and Scenic R	ecreational Rivers ry (NRI) listed	dictional Fea	tures	Presence	Yes X X X X X X	No	
Total stream(s) in project area: <u>998</u> Linear feet Total i					Total impacte	d stream(s):	205 (Permane 88.3 (Tempor		inear feet.
Stream		Classification	Total Size in Project Area (linear feet)	Impacted (linear feet)			ow direction, lik		
		D	000	<u>^</u>					

Big Blue River	Perennial	683	0	Flows southwest under the bridge, Likely Waters of the US
Unnamed Tributary (UNT) to Big Blue River	Perennial	315	338.3	Located approximately 27-feet southeast of the bridge/east of SR 140, it flows northeast to Big Blue River, Likely Waters of the US

Describe all streams, rivers, watercourses and other jurisdictional features adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if the streams or rivers are listed on any federal or state lists for Indiana. Include if features are likely subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

Based on the desktop review, the aerial map of the project area (Appendix B, Page 1), and the RFI report (Appendix E, Page 2) there are seven rivers, streams, watercourses, or other jurisdictional features within the 0.5-mile search radius. There are two streams, rivers, watercourses, or other jurisdictional features within or adjacent to the project area. That number was confirmed on July 5, 2023, by Kaskaskia Engineering Group, LLC (KEG) staff.

The Big Blue River is located within the project area and is mapped as an IDEM 303d Listed Stream. Big Blue River is listed for E. coli. (Appendix E Page 3). Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure. This has been added as a firm commitment.

Big Blue River is impaired for PCBs and mercury in fish tissue (Appendix E Page 3). Exposure to PCBs and mercury in fish tissue is considered low, assuming workers are not eating biota surrounding or associated with the water body. Workers will be informed. If there will be sediment and/or soils disturbed by construction, additional investigation may be necessary. Coordination with INDOT ESD SAM will occur.

Big Blue River is a salmonid stream, is on the Indiana Outstanding Rivers list within Rush County and is an Indiana Navigable Waterway. No Federal, Wild and Scenic Rivers; State Natural, Scenic, and Recreational Rivers; or National Rivers Inventory waterways are present in or adjacent to the project area.

A Waters of the US Determination/ Wetland Delineation Report was completed for the project December 13, 2023, and approved by INDOT Ecology, Waterway Permitting, and Stormwater (EWPSO) office December 27, 2023. Please refer to Appendix F for the Waters of the US Determination/ Wetland Delineation Report. It was determined that Big Blue River and UNT to Big Blue River are likely jurisdictional waters. The US Army Corps of Engineers (USACE) makes all final determinations.

Big Blue River is a perennial stream with well-defined bed and bank. The substrate was sand, silt, muck over native limestone rock. There are forested riparian corridors on both sides of the river, with the southern side extending into a forest while the north side was much thinner and bordered by row crops in the north (Appendix B, Page 4). The stream was deemed "average" during a qualitative assessment of the reach within the project area. The ordinary high water mark (OHWM) was approximately 27 feet wide and 1 foot deep as measured 210 feet upstream from the bridge. There will be no permanent or temporary impacts to Big Blue River from this project. Big Blue River will be labeled on the plans as "Do Not Disturb." This is included as a firm commitment in the Environmental

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Indiana	Department of	Transportation
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County	Rush and Henry	Route	SR 140	Des. No.	2002071
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Commitments Section of this CE document.

UNT to Big Blue River is a perennial stream with a well-defined bed and bank. There are forested riparian zones on both sides of the stream, the northeast side extends into the forest while the southwest side is thinner between SR 140 and the stream (Appendix B, Page 4). The stream was deemed "average" during a qualitative assessment of the reach within the project area. The OHWM was approximately 7.1 feet wide and 0.34 feet deep. Permanent impacts to UNT to Big Blue River include 196.5 linear feet (0.033 acre) of Class 2 riprap (for scour protection around the bridge) and clean soil fill (for stream relocation to avoid riprap area). Temporary impacts include 88.3 linear feet (0.0131 acre) from traversable check dams, filter sock, and temporary construction access. Avoidance was not practicable, as project limits have been constrained to the smallest possible to complete the project.

Per coordination with INDOT Ecology and Waterway Permitting (EWPO), due to impacts to Waters of the US, a USACE Section 404 Permit (NWP) and an IDEM Section 401 Water Quality Certification (WQC) will be required. Likely there will be no stream mitigation required regarding this permit.

IDNR DFW responded during early coordination on November 8, 2023, with recommendations on reducing impacts to the streams such as erosion control and revegetation, stream crossing design, fish and wildlife crossing considerations, and best management practices of working within and along the banks of Big Blue River and UNT to Big Blue River (Appendix C, Page 12). All applicable recommendations are included in the Environmental Commitments section of this CE document.

	Presence	Im	pacts
Open Water Feature(s)		Yes	No
Reservoirs			
Lakes			
Farm Ponds			
Retention/Detention Basin			
Storm Water Management Facilities			
Other:			

Describe all open water feature(s) identified adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if features are likely subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

Based on the desktop review, the aerial map of the project area (Appendix B, Page 1), and the RFI report (Appendix E, Page 3) there are 2 open water features within the 0.5-mile search radius. There are no open water features within or adjacent to the project area. This was confirmed on July 5, 2023, by KEG staff. No impact to open water features is expected.

A Waters of the US Determination/ Wetland Delineation Report was completed for the project December 13, 2023, and approved by INDOT Ecology and Waterway Permitting (EWPO) office December 27, 2023. Please refer to Appendix B, Page 4 and Appendix F, Page 5, for the Waters of the US Determination/ Wetland Delineation Report. It was determined that there are no jurisdictional open water features within or adjacent to the project area. Therefore, no impacts are expected.

Wetlands			Presence	<u>e</u>]	Yes No
Total wetland area:	<u>NA</u>	Acre(s)	Total wetland area impacted:	<u>NA</u>	Acre(s)
(If a determination has not been ma	de for no	on-isolated/isc	plated wetlands, fill in the total wetla	nd area	impacted above.)

Wetland No.	Classification	Total Size (Acres)	Impacted Acres	Comments (i.e. location, likely Water of the US, appendix reference)

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County	Rush and Henry	Route	SR 140	Des. No. 2002071					
We	etlands (Mark all that apply)		Documentation	ESD Approval Date	<u>s</u>				
	Wetland Determination Wetland Delineation USACE Isolated Waters Determi	nation							
Improvements that will not result in any wetland impacts are not practicable because such avoidance would result in (Mark all that apply and explain): Substantial adverse impacts to adjacent homes, business or other improved properties;									

Substantially increased project costs;

Unique engineering, traffic, maintenance, or safety problems;

Substantial adverse social, economic, or environmental impacts, or

The project not meeting the identified needs.

Describe all wetlands identified adjacent or within the project area. Include whether or not impacts (both permanent and temporary) will occur to the features identified. Include if features are likely subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.

Based on the desktop review, the aerial map of the project area (Appendix B, Page 1), and the RFI report (Appendix E, Pages 2 to 3) there are 7 National Wetland Inventory (NWI) features within the 0.5-mile search radius. There are no wetlands within or adjacent to the project area. This was confirmed on July 5, 2023, by KEG staff.

A Waters of the US Determination/ Wetland Delineation Report was completed for the project December 13, 2023, and approved by INDOT Ecology and Waterway Permitting (EWPO) office December 27, 2023. Please refer to Appendix B, Page 4 and Appendix F, Page 5, for the Waters of the US Determination/ Wetland Delineation Report. It was determined that there are no jurisdictional, or isolated, wetland features within or adjacent to the project area. No impacts to wetlands are expected.

			Presence	Impacts	
Terrestrial Habitat			X	YES NO	
Total terrestrial habitat in project area:	1.076	Acre(s)	Total tree clearing:	0.91 Acre(s)

Describe types of terrestrial habitat (i.e. forested, grassland, farmland, lawn, etc) adjacent or within the project area. Include whether or not impacts will occur to habitat identified. Include total terrestrial habitat impacted and total tree clearing that will occur. Discuss measure to avoid, minimize, and mitigate if impacts will occur.

Based on a desktop review, a site visit July 5, 2023, by KEG staff, the aerial map of the project area (Appendix B, Page 1) there are two types of terrestrial habitat in the project area: forest (including riparian) and row crop agriculture. The dominant vegetation within the forest (including riparian) is comprised of Eastern black walnut (*Juglans nigra*), American sycamore (*Platanus occidentalis*), silver maple (*Acer saccharinum*), box elder (*Acer negundo*), bristly greenbrier (*Smilax tamnoides*), amur honeysuckle (*Lonicera maackii*), wrinkled leaf goldenrod (*Solidago rugosa*), and Canadian wood nettle (*Laportea canadensis*). Approximately a total of 1.076, including 0.91 acres of tree removal and 0.1 acre of agricultural vegetation, are likely to be impacted due to construction access for the bridge replacement and installation of riprap. Avoidance alternatives would not be practical as the project limits have been constrained to the smallest area possible to complete the project. Mitigation for terrestrial impacts is anticipated to be required by permits.

INDR DFW responded during early coordination on November 8, 2023, with recommendations on reducing terrestrial impacts such as erosion control and revegetation, best management practices of tree removal, and habitat impact reduction (Appendix C, Page 12). All applicable recommendations are included in the Environmental Commitments section of this CE document.

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County	Rush and Henry	Route	SR 140		Des.	No	2002071	
	rotected Species ederally Listed Bats Information for Planning and Section 7 informal consultation Section 7 formal consultation	on completed (IPa	C cannot be con	npleted)	d	Yes X		No X X
D	etermination Received for List	ed Bats from USF	NS: N	E	NLAA		LAA	Х
O	ther Species not included in Additional federal species for State species (not bird) found	und in project area				Yes		No X X
М	igratory Birds Known usage or presence of State bird species based upo		h IDNR			Yes X		No X

Discuss IDNR coordination and species identified. Describe USFWS Section 7 consultation and determination received for Indiana bat and northern long-eared bat impacts. Discuss if other federally listed species were identified. If so, include consultation that has occurred and the determination that was received. Discuss if migratory birds have been observed and any impacts.

Based on a desktop review, and the RFI report (Appendix E, Page 5) completed by KEG August 31, 2023, and approved by INDOT Site Assessment and Management (SAM) September 1, 2023, the IDNR Rush and Henry Counties Endangered, Threatened and Rare (ETR) Species list has been checked. According to the IDNR DFW early coordination letter dated November 8, 2023, (Appendix C, Page 12), the Natural Heritage Program's Database has been checked and stated, "To date, no plant or animal species listed as state or federally threatened, endangered, or rare have been reported to occur in the project vicinity." There was also no mention of critical habits, therefore, it is assumed there aren't any in the area. An INDOT 0.5-mile bat review occurred on May 19, 2023. The USFWS database indicated there were 10 documented capture sites within a half mile of the project area.

Project information was submitted through the USFWS's Information for Planning and Consultation (IPaC) portal, and an official species list was generated (Appendix C, Page 36). The project is within range of the federally endangered Indiana bat (*Myotis sodalis*) and northern long-eared bat (NLEB) (*Myotis septentrionalis*).

The official species list generated from IPaC indicated three other species that may be present within the project area: proposed endangered species- tricolored bat (*Perimyotis subflavus*), experimental population non-essential species- whooping crane (*Grus americana*), and the candidate species monarch butterfly (*Danaus plexippus*). This project does qualify for the most current INDOT/USFWS agreement.

The project qualified and completed Limited Formal Programmatic Consultation for the Indiana bat and northern long-eared bat (NLEB) due to the originally anticipated 1.02 acres of tree removal within documented Indiana bat habitat causing an incidental take of Indiana Bats. Tree removal has now been reduced to 0.91 acre. A bridge inspection occurred on July 5, 2023, and there were no bats or signs of bats, though there were bird nests found. (Appendix C, Page 31). An effect determination key was completed November 13, 2023, and based on the responses provided, the project received a "likely to adversely affect" the Indiana bat and/or the NLEB determination. INDOT verified the effect finding and submitted it to USFWS on November 14, 2023. On December 5, 2023, USFWS issued a concurrence letter confirming the "likely to adversely affect" finding (Appendix C, Page 32). Proposed impacts have been minimized to the extent practicable and cannot be avoided due to construction access for the bridge replacement.

Avoidance and Minimization Measures (AMMs) and/or commitments are included as firm commitments in the Environmental Commitments section of this document. These AMMs include directing temporary lighting away from suitable habitat during the active season, avoiding tree removal and clearly marking only those trees that must be removed, and ensuring everyone involved with the project are aware of potential bat habitat and all of the environmental commitments (Appendix C, Page 27).

A "Reinitiation Notice" is required if: more than 1.02 acres of suitable habitat is to be cleared; new information about listed species is encountered; the project is modified in a manner that causes an effect to the listed species; or a new species or critical habitat is listed that the project may affect. These requirements, and the Avoidance and Minimization Measures (AMMs) from the Project Submittal Form, are included as firm commitments for this project.

"Reasonable and Prudent Measures" (RPM) are required. The sole RPM of the BO requires the Federal Transportation Agencies to ensure that State/Local transportation agencies offer training to appropriate personnel about using the BO, and promptly report sick,

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injured, or dead bats (regardless of species) or any other federally listed species located at the project site.

Additionally, "Reporting Dead or Injured Bats" is required. Any contractors must take care when handling dead or injured Indiana bats and NLEBs, or any other federally listed species that are found at the project site to preserve biological material in the best possible condition and to protect the handler from exposure to diseases, such as rabies. Project personnel are responsible for ensuring that any evidence about determining the cause of death or injury is not unnecessarily disturbed. Reporting the discovery of dead or injured listed species is required in all cases.

INDOT shall satisfy the compensatory mitigation requirements of the formal consultation with USFWS for the Indiana bat (mitigation is not required for the NLEB) through one of the conservation options outlined on page 41 of the May 20, 2016, Programmatic Biological Opinion for Transportation Projects (BO) in the Range of the Indiana bat and NLEB. The amount to be paid to the Range-wide In-lieu Fee Program, to be administered by The Conservation Fund, shall be \$20,259.75. The purchase of species conservation credits and/or in-lieu fee contributions shall occur prior to construction of a transportation project covered under this programmatic BO.

USFWS bridge/Structure Assessment shall take place no earlier than two (2) years prior to the start of construction. If construction will begin after July 5, 2025, an inspection of the structure by a qualified individual, must be performed. Inspection of the structure should check for presence of bats/bat indicators and/or presence of birds. The results of the inspection must indicate no signs of bats or birds. If signs of bats or birds are documented during this inspection, the INDOT District Environmental Manager must be contacted immediately.

The official species list generated from IPaC indicated three other listed species present within the project area: the tricolored bat (*Perimyotis subflavus*), the whooping crane (*Grus americana*) and the monarch butterfly (*Danaus plexippus*). The whooping crane is listed as endangered wherever found, except where listed as an experimental population according to the Environmental Conservation Online System (<u>https://ecos.fws.gov/ecp/species/758</u>). The whooping crane is listed as an experimental population in this location. The monarch butterfly is identified as a candidate species and is not yet listed or proposed for listing. The tricolored bat is proposed for listing. Therefore, these species were not considered as part of this project, and the USFWS Interim Policy is not applicable because there are no other federally protected species identified within the project area. No further coordination is needed with USFWS.

Prior to any demolition, the structure(s) will be inspected for bats or evidence of bats. If bats, or evidence of bats, are found coordination will occur with INDOT ESD and USFWS before demolition may occur. If further coordination is needed no demolition shall occur until coordination is concluded with INDOT ESD and USFWS. This firm commitment is included in the Environmental Commitments of this document.

Migratory Birds

Bridge 140-70-06039B/NBI 026970 has shown evidence of use (i.e. nests) by a bird species protected under the Migratory Bird Treaty Act (MBTA) during the May 3, 2023, inspection. Avoidance and minimization measures must be implemented prior to the start of and during the nesting season. Nests without eggs or young should be removed prior to construction during the non-nesting season (September 8 – April 30) and during the nesting season if no eggs or young are present. Nests with eggs or young cannot be removed or disturbed during the nesting season (May 1 – September 7). Nests with eggs or young should be screened or buffered from active construction. Details of the required procedures are outlined in the "Potential Migratory Bird on Structure" Unique Special Provision (USP). This firm commitment is included in the *Environmental Commitments* of this document.

This precludes the need for further consultation on this project as required under Section 7 of the Endangered Species Act, as amended. If new information on endangered species at the site becomes available, or if project plans are changed, USFWS will be contacted for consultation.

eological and Mineral Resources	Yes	<u>No</u>
Project located within the Indiana Karst Region		
Karst features identified within or adjacent to the project area		
Oil/gas or exploration/abandoned wells identified in the project area	X	

Date Karst Evaluation reviewed by INDOT EWPO (if applicable):

Discuss if project is located in the Indiana Karst Region and if any karst features have been identified in the project area (from RFI). Discuss response received from IGWS coordination. Discuss if any mines, oil/gas, or exploration/abandoned wells were identified and if impacts will occur. Include discussion of karst study/report was completed and results. (Karst investigation must comply with

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County	Rush and Henry	Route	SR 140	Des. No.	2002071	

the current Protection of Karst Features during Planning and Construction guidance and coordinated and reviewed by INDOT EWPO)

Based on a desktop review and the Indiana Karst Region map, the project is located outside the designated Indiana Karst Region as outlined in the most current *Protection of Karst Features during Project Development and Construction*. According to the topo map of the project area (Appendix B, Pages 2 and 3), the RFI report (Appendix E, Page 2), and the field visit by KEG staff on July 5, 2023, there are no karst features identified within or adjacent to the project area. In the early coordination response October 9, 2023, the Indiana Geological and Water Survey (IGWS) did not indicate that karst features exist in the project area (Appendix C, Page 5) The IGWS also indicated that the geological hazards could be a floodway and the potential for high liquefaction. There is a high potential for bedrock resources and sand and gravel resources. The features will not be affected because they do not exist within the project area. Response from IGWS has been communicated with the designer on March 1, 2023. No impacts are expected.

Based on the RFI report (Appendix E, Page 3), one (1) petroleum well is located within the project area. A coordination letter was sent to the IDNR Oil & Gas inspector for district 5, August 14, 2024 (Appendix C Page 1).

SECTION C - OTHER RESOURCES

Drinking Water Resources	Presence	<u>Impa</u> Yes	<u>cts</u> No
Wellhead Protection Area(s)			
Source Water Protection Area(s) Water Well(s)			
Urbanized Area Boundary			
Public Water System(s)			
		Yes	No
Is the project located in the St. Joseph Sole Source Aquifer (SSA)	:		
If Yes, is the FHWA/EPA SSA MOU Applicable? If Yes, is a Groundwater Assessment Required?			

Check the appropriate boxes and discuss each topic below. Provide details about impacts and summarize resource-specific coordination responses and any mitigation commitments. Reference responses in the Appendix.

The project is located in Rush and Henry Counties, which are not located within the area of the St. Joseph Sole Source Aquifer, the only legally designated sole source aquifer in the state of Indiana. Therefore, the FHWA/EPA/INDOT Sole Source Aquifer Memorandum of Understanding (MOU) is not applicable to this project, a detailed groundwater assessment is not needed, and no impacts are expected.

This project is not located within a Wellhead Protection Area or Source Water Area. In an early coordination letter dated October 13, 2023, IDEM stated the project is not located within a wellhead area (Appendix C, Page 10). No impacts are expected.

The Indiana Department of Natural Resources Water Well Record Database website (https://www.in.gov/dnr/water/3595.htm) was accessed on March 1, 2024, by KEG staff. No wells are located near this project. Therefore, no impacts are expected.

Based on a desktop review of the Indiana Map (<u>https://www.indianamap.org/</u>) by KEG staff on March 1, 2024, this project is not located in an Urban Area Boundary. No impacts are expected.

Based on a desktop review, a site visit on July 5, 2023, the aerial map of the project area (Appendix B, Page 1), and discussion with INDOT Utilities and Railroads, March 7, 2024, (Appendix I Page 15), no public water systems were identified. Therefore, no impacts are expected.

County	Rush and Henry Route SR 140		Des	Des. No. 2002071			
Flo	oodplains			Presence	<u>Impacts</u> Yes No		
	Project located within a regularized constraints of the constraint of the constraints of		wnstream from pro	ject	X		
lf a	applicable, indicate the Flood	plain Level?					
Le	vel 1 Level 2	Level	3 📃 Le	evel 4 X L	evel 5		

Use the IDNR Floodway Information Portal to help determine potential impacts. Include floodplain map in appendix. Discuss impacts according to the classification system. If encroachment on a flood plain will occur, coordinate with the Local Flood Plain Administrator during design to insure consistency with the local flood plain planning.

Based on a desktop review of The Indiana Department of Natural Resources Indiana Floodway Information Portal website (<u>https://www.in.gov/dnr/water/surface-water/indiana-floodplain-mapping/indiana-floodplain-information-portal/</u>) by KEG staff on September 28, 2023, and the RFI report, this project is located in a regulatory floodplain as determined from approved IDNR floodplain maps (Appendix F, Page 9). An early coordination letter was sent on October 9, 2023, to the local Floodplain Administrator. The floodplain administrator did not respond within the 30-day time frame. This project qualifies as a Category 4 per the current INDOT CE Manual, which states:

No homes are located with the base floodplain within 1,000 feet upstream and no homes are located within the base floodplain within 1,000 feet downstream. The proposed structure will have an effective capacity such that backwater surface elevations are not expected to substantially increase. As a result, there will be no substantial adverse impacts on natural and beneficial floodplain values; there will be no termination of emergency service or emergency evacuation routes; therefore, it has been determined that this encroachment is not substantial. A hydraulic design study that addresses various structure size alternatives will be completed during the preliminary design phase. A summary of this study can be found in Appendix I (Page 27).

	Presence	Impacts
Farmland		Yes No
Agricultural Lands Prime Farmland (per NRCS)	X X	X X
Total Points (from Section VII of CPA-106/AD-1006*) *If 160 or greater, see CE Manual for guidance.	87	

Discuss existing farmland resources in the project area, impacts that will occur to farmland, and mitigation and minimization measures considered.

Based on a desktop review, a site visit on July 5, 2023, by KEG staff and the aerial map of the project area (Appendix B, Page 1) the project will convert 0.096-acre of farmland as defined by the Farmland Protection Policy Act. An early coordination letter was sent on October 9, 2023, to Natural Resources Conservation Service (NRCS). Coordination with NRCS resulted in a score of 87 on the (AD 1006 Form) (Appendix C, Page 9). NRCS's threshold score for significant impacts to farmland that result in the consideration of alternatives is 160. Since this project score is less than the threshold, no significant loss of prime, unique, statewide, or local important farmland will result from this project. No alternatives other than those previously discussed in this document will be investigated without reevaluating impacts to prime farmland.

SECTION D – CULTURAL RESOURCES

Minor Projects P/		(ies) and Type(s)	INDOT Ap May 2, 20	oproval Date	e(s) N/A	
This is page 14 of 23	Project name:	SR 140 over Big Blue River	Bridge Replacement	Date: S	September 11, 20)24

County	Rush and Henry	Route SR 140 De	es. No. 2002071
Fu	III 106 Effect Finding No Historic Properties Affecto	ed No Adverse Effect Advers	se Effect
EI	igible and/or Listed Resource NRHP Building/Site/District(s		P Bridge(s)
Do	APE, Eligibility and Effect De 800.11 Documentation Historic Properties Report or Archaeological Records Cher Archaeological Phase Ia Sun Archaeological Phase Ic Sun Other:	ermination	s) SHPO Approval Date(s)
	Memorandum of Agreement	MOA)	s (List all signatories)
full Section local newsp Section 106 On May 2	106, use the headings provid papers. Please indicate the pu <u>6 work which must be complet</u> 2, 2024, the INDOT Cultural R	be the category(ies) that the project falls under and any ed. The completion of the Section 106 process requires blication date, name of the paper(s) and the comment p ed at a later date, such as mitigation from a MOA or ave esources Office (CRO) determined that this project falls ammatic Agreement, (Appendix D, Page 1).	that a Legal Notice be published in period deadline. Include any further oidance commitments.

B-12. Replacement, widening, or raising the elevation of the superstructure on existing bridges, and bridge replacement projects (when both the superstructure and substructure are removed), under the following conditions [BOTH Condition A, which pertains to Archaeological Resources, and Condition B, which pertains to Above-Ground Resources, must be satisfied]:

- Condition A (Archaeological Resources) ii. Work occurs in undisturbed soils and an archaeological investigation conducted by the applicant and reviewed by INDOT Cultural Resources Office determines that no National Register-listed or potentially National Register-eligible archaeological resources are present within the project area. If the archaeological investigation locates National Register-listed or potentially National Register-eligible archaeological resources, then full Section 106 review will be required. Copies of any archaeological reports prepared for the project will be provided to the DHPA and any archaeological site form information will be entered directly into the SHAARD by the applicant. The archaeological reports will also be available for viewing (by Tribes only) on INSCOPE.
- Condition B (Above-Ground Resources) The conditions listed below must be met (BOTH Condition i and Condition ii must be satisfied)
 - i. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource:
 - AND ii. With regard to the subject bridge, at least one of the conditions listed below is satisfied (AT LEAST one of the conditions a, b or c, must be fulfilled):
 - b. The bridge was built after 1945, and is a common type as defined in Section V. of the Program Comment Issued for Streamlining Section 106 Review for Actions Affecting Post-1945 Concrete and Steel Bridges issued by the Advisory Council on Historic Preservation on November 2, 2012, for so long as that Program Comment remains in effect AND the considerations listed in Section IV of the Program Comment do not apply.

An Archaeological Phase 1a Reconnaissance Survey was completed April 8, 2024, and approved May 2, 2024, by INDOT CRO. There were no archaeological resources identified or located (Appendix D Page 5). INDOT CRO submitted the survey to SHAARD and INSCOPE for record keeping purposes only. No further consultation is required. This completes the Section 106 process and the responsibilities of the FHWA under Section 106 have been fulfilled.

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County	Rush and Henry
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Route SR 140

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SECTION E - SECTION 4(f) RESOURCES/ SECTION 6(f) RESOURCES

	Presence	Use	<u>)</u>
Parks and Other Recreational Land Publicly owned park Publicly owned recreation area Other (school, state/national forest, bikeway, etc.) Wildlife and Waterfowl Refuges National Wildlife Refuge National Natural Landmark State Wildlife Area State Nature Preserve Historic Properties Site eligible and/or listed on the NRHP		Yes	No
	Evaluations Prepared		
Programmatic Section 4(f) "De minimis" Impact Individual Section 4(f) Any exception included in 23 CFR 774.13			

Discuss Programmatic Section 4(f) and "de minimis" Section 4(f) impacts in the discussion below. Individual Section 4(f) documentation must be included in the appendix and summarized below. Discuss proposed alternatives that satisfy the requirements of Section 4(f). FHWA has identified various exceptions to the requirement for Section 4(f) approval. Refer to 23 CFR § 774.13 - Exceptions.

Section 4(f) of the U.S. Department of Transportation Act of 1966 prohibits the use of certain public and historic lands for federally funded transportation facilities unless there is no feasible and prudent alternative. The law applies to significant publicly owned parks, recreation areas, wildlife / waterfowl refuges, and NRHP eligible or listed historic properties regardless of ownership. Lands subject to this law are considered Section 4(f) resources.

Based on a desktop review, the aerial map of the project area (Appendix B, Page 1), and the RFI report (Appendix E, Page 2) there are 3 potential 4(f) resources located within the 0.5-mile search radius. Knightstown Public Access Site to the Big Blue River is located approximately 0.10 mile west of the bridge. According to communication with the designer on August 13, 2024, the public access site is outside of the project limits and will remain accessible to the public during construction. According to the site visit on July 5, 2023, by KEG staff, there are no Section 4(f) resources within or adjacent to the project area. An early coordination letter was submitted to IDNR DFW October 9, 2023, and no response was received within the 30-day response time frame. The project will not use this resource by taking permanent ROW and will not indirectly use the resource in such a way that the protected activities, features, or attributes that qualify a resource for protection under Section 4(f) are substantially impaired. Therefore, no 4(f) use is expected.

Section 6(f) Involvement	Presence	Use Vac
Section 6(f) Property		Yes No

Discuss Section 6(f) resources present or not present. Discuss if any conversion would occur as a result of this project. If conversion will occur, discuss the conversion approval.

The U.S. Land and Water Conservation Fund Act of 1965 established the Land and Water Conservation Fund (LWCF), which was created to preserve, develop, and assure accessibility to outdoor recreation resources. Section 6(f) of this Act prohibits conversion of lands purchased with LWCF monies to a non-recreation use.

A review of 6(f) properties on the INDOT ESD website revealed no 6(f) properties in Rush County (no list) and two in Henry County (Appendix I Page 16). None of these properties are located within or adjacent to the project area. Therefore, there will be no impact to 6(f) resources.

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County Rush and Henry	Route SR 140	Des. No. 2002071
SECTION F – Air Quality		
If Yes, then: Is the project in the most Is the project exempt fro If No, then:	rrent STIP/TIP? MPO Area? y non-attainment or maintenance area? current MPO TIP? m conformity? ransportation Plan (TP)?	Yes No X X X
Location in STIP:		FY 2024-2028, Initial, September 21, 2023
Name of MPO (if applicable):	
Location in TIP (if applicable	e):	
Level of MSAT Analysis req	uired?	
Level 1a Level 1	b Level 2 Level 3	Level 4 Level 5
Iocated. Indicate whether the project the TP and TIP. Describe if a hot spore The project is included in the Fiscal 1). This project is located in Rush and Greenbook (https://www3.epa.gov/ County (https://www.in.gov/idem/sig not apply. This project is of a type qualifying a	is exempt from a conformity determination of analysis is required and the MSAT Leve Year (FY) 2024-2028 Statewide Transp Henry Counties, which are currently in airquality/greenbook/anayo_in.html) and os/nonattainment-status-of-counties/). The	ortation Improvement Program (STIP) (Appendix H, Page attainment for all criteria pollutants according to the EPA d IDEM's Current Status and Nonattainment History, by herefore, the conformity procedures of 40 CFR Part 93 do der 23 CFR 771.117(c) or exempt under the Clear Air Act
SECTION G - NOISE		
Date Noise Analysis was ap Describe if the project is a Type I or		
	accordance with 23 CFR 772 and the c s not require a formal noise analysis.	urrent Indiana Department of Transportation Traffic Noise

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County	Rush and Henry	Route	SR 140	_ Des. No.	2002071	
SECTION	N H – COMMUNITY IMPACTS					

Regional, Community & Neighborhood Factors

Will the proposed action comply with the local/regional development patterns for the area?
Will the proposed action result in substantial impacts to community cohesion?
Will the proposed action result in substantial impacts to local tax base or property values?
Will construction activities impact community events (festivals, fairs, etc.)?
Does the community have an approved transition plan?
If No, are steps being made to advance the community's transition plan?

Does the project comply with the transition plan? (explain in the discussion below)

No
Х
Х
Х
Х

Discuss how the project complies with the area's local/regional development patterns; whether the project will impact community cohesion; and impact community events. Discuss how the project conforms with the ADA Transition Plan.

A comprehensive plan for Rush County was not available for review of online resources by KEG staff, March 4, 2024; however, the project is not anticipated to negatively affect community cohesion, the local tax base, or property values, since transportation within the county and connectivity to community resources will not be permanently affected.

SR 140 is shown as a *Major Collector* connecting Knightstown to the rest of the county, especially the county seat of New Castle in the Henry County Comprehensive Plan (Appendix I Page 29). The project supports the stated transportation outcomes for Henry County, by maintaining the crossing over Big Blue River for the next 75 years, thus allowing continued travel between Rush and Henry Counties. This project is not anticipated to negatively affect community cohesion, the local tax base, or property values within the county, and connectivity to community resources will not be permanently affected.

On March 4, 2024, KEG staff reviewed <u>www.indianafestivals.org</u> for any special events or festivals in Knightstown (Henry County) and Rush County throughout the year. The following special event was noted: Wendal Willkie Days September 20-22, 2024. There will be a detour for the traveling public. Delays shall occur during construction but will cease with project completion. Temporary community and economic impacts will occur due to increased travel time and expense; therefore, no long-term negative impacts to the community or its economy are expected.

Public Facilities and Services

Discuss what public facilities and services are present in the project area and impacts (such as MOT) that will occur to them. Include how the impacts have been minimized and what coordination has occurred. Some examples of public facilities and services include health facilities, educational facilities, public and private utilities, emergency services, religious institutions, airports, transportation or public pedestrian and bicycle facilities.

Based on a desktop review, the aerial map of the project area (Appendix B, Page 1), the RFI report (Appendix E, Page 2), there is one public facility, Bethel Church, within the 0.5-mile search radius. The RFI Addendum indicated pipelines within the project area (Appendix E Page 12). Communication with INDOT Railroads and Utilities, March 7, 2024, disclosed that there are no pipelines within the project area (Appendix I, Page 15). There are no public facilities within or adjacent to the project area, which was confirmed by the site visit July 5, 2023. Therefore, no impacts are expected. Access to all properties will be maintained during construction.

It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access.

 Environmental Justice (EJ) (Presidential EO 12898)
 Yes

 During the development of the project were EJ issues identified?
 X

 Does the project require an EJ analysis?
 X

 If YES, then:
 X

 Are any EJ populations located within the project area?
 X

 Will the project result in adversely high and disproportionate impacts to EJ populations?
 X

Indicate if EJ issues were identified during project development. If an EJ analysis was not required, discuss why. If an EJ analysis was required, describe how the EJ population was identified. Include if the project has a disproportionately high or adverse effect on EJ populations and explain your reasoning. If yes, describe actions to avoid, minimize and mitigate these effects.

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County Rush and Henry Route	SR 140	Des. No.	2002071	
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Under FHWA Order 6640.23A, FHWA and the project sponsor (INDOT), as a recipient of funding from FHWA, are responsible to ensure that their programs, policies, and activities do not have a disproportionately high and adverse effect on minority or low-income populations. Per the current INDOT Categorical Exclusion Manual, an Environmental Justice (EJ) analysis is required for any project that has two or more relocations or 0.5 acre of additional permanent ROW. Relocations of people or businesses will not be required. This project will require 1.15 acre of permanent ROW. Therefore, an EJ analysis is required.

Potential EJ impacts are detected by locating minority and low-income populations relative to a reference population to determine if populations of EJ concern exist and whether there could be disproportionately high and adverse impacts to them. The reference population may be a county, city or town and is called the community of comparison (COC). In this project, COC-H is the population of Henry County, COC-R is the population in Rush County, and COC-T is the combined populations of COC-H + COC-R. The community that overlaps the project area is called the affected community (AC). In this project the AC-H is Henry County, Census Tract 9767, AC-R is Rush County Census Tract 9742, and AC-T is the combined population of AC-H + AC-R. An AC has a population of concern for EJ if the EJ population is over 50% or is 125% of the COC's EJ population. Data from the US Census Bureau, American Community Survey 2022, was obtained from https://data.census.gov/ on March 26, 2024, by KEG staff. The data collected for minority and low income populations within the ACs are summarized in the below table.

Table: Minority and Low-Income Data (US Census Bureau, American Community Survey, 5 Year Estimates 2022; Data Set ACSDT52022)

	СОС-Н	АС-Н	COC-R	AC-R	COC- T	AC-T
Percent Low-Income	13.72 %	23.51 %	11.71 %	12.96 %	13.19%	18.98%
125% of COC	17.14 %	AC > 125% COC	14.64 %	AC > 125% COC	616.48%	AC < 125% COC
EJ Population o Concern	f	Yes		No		Yes
Percent Minority	7.27 %	1.84 %	5.04 %	1.28 %	6.70 %	1.60 %
125% of COC	9.09 %	AC < 125% COC	6.30 %	AC < 125% COC	<i>6</i> 8.37 %	AC < 125% COC
EJ Population o Concern	f	No		No		No

Appendix I, Page 18

AC-H has a percent low-income of 23.51% which is below 50% but is above the 125% COC threshold. Therefore, AC-H has a low-income population of concern.

AC-R has a percent low-income of 12.96% which is below 50% and is below the 125% COC threshold. Therefore, AC-R does not have a low-income population of concern.

AC-T has a percent low-income of 18.98% which is below 50% but is above the 125% COC threshold. Therefore, the AC-T has a low-income of concern.

AC-H has a percent minority of 1.84% which is below 50% and is below the 125% COC threshold. Therefore, AC-H does not have a minority population of concern.

AC-R has a percent minority of 1.28% which is below 50% and is below the 125% COC threshold. Therefore, the AC-R does not have a minority population of concern.

AC-T has a percent minority of 1.60% which is below 50% and is below the 125% COC threshold. Therefore, the AC-T does not have a minority population of concern.

The identified EJ populations will benefit from the project by having an improved crossing at this location. Overall, the negative impacts to the identified EJ populations of concern will consist of short-term construction impacts resulting from potential short term travel delays during construction due to the maintenance of traffic (MOT). The MOT will use phased construction resulting in a single lane being open for traffic (Appendix B Pages 29-30). This MOT will last no more than 12 months. In relationship to the project, the nearest urbanized area likely servicing the affected community is Greenfield, which is approximately 13 miles to the West on US 40 and the Town of Knightstown, which is approximately 0.10 mile to the North on SR 140. Once construction is complete, full access along SR 140 at this location will be restored.

The prepared EJ Analysis was sent to INDOT ESD on March 27, 2024. INDOT ESD concurred on May 2, 2024 (Appendix I, Page

This is page 19 of 23 Project name: <u>SR 140 over Big Blue River Bridge Replacement</u> Date: <u>September 11, 2024</u>

County	Rush and Henry	Route	SR 140	Des. No.	2002071
EJ and n The positi concern i The com	acts have been reduced as much as ion-EJ populations. Several unofficia tive impacts of the project will equall s not expected to experience disprop upleted analysis, census data sheet iental justice analysis is warranted.	detours, o y benefit the ortionately	ffering a slightly short e EJ and the non-EJ p high and adverse imp	ter route concerning veh populations. Therefore, the acts from the project.	icle miles, are also available. he identified population of EJ
R	elocation of People, Businesses o	r Farms			Yes No
	/ill the proposed action result in the result in the result of CSRS required?	elocation of	people, businesses o	r farms?	
N	umber of relocations: Residenc	es:	Businesses:	Farms:	Other:
Discuss ar	ny relocations that will occur due to th	e project. If	a BIS or CSRS is req	uired, discuss the results	in the discussion below.
No reloca	ations of people, businesses, or farms	s will take pl	ace as a result of this	project.	
SECTIO	N I – HAZARDOUS MATERIALS	6 & REGU	LATED SUBSTAN	CES	
R P P	azardous Materials & Regulated S ed Flag Investigation (RFI) hase I Environmental Site Assessme hase II Environmental Site Assessme esign/Specifications for Remediation	nt (Phase I ent (Phase I	ESA)	Documen	tation

Date RFI concurrence by INDOT SAM (if applicable): September 1, 2023 and RFI Addendum: October 23, 2023

Include a summary of the potential hazardous material concerns found during review. Discuss in depth sites found within, directly adjacent to, or ones that could impact the project area. Refer to current INDOT SAM guidance. If additional documentation (special provisions, pay quantities, etc.) will be needed, include in discussion. Include applicable commitments.

Based on a review of GIS and available public records, the RFI was completed on August 31, 2023, and INDOT SAM provided their concurrence on September 1, 2023. An RFI Addendum was completed on October 23, 2023, and INDOT SAM provided their concurrence on October 23, 2023. There are 3 potential hazmat sites located within the 0.5-mile search radius of the project area, 2 USTs and one NPDES facility (Appendix E, Page 4). None of the hazmat sites will impact the project. Further investigation for hazardous material concerns is not required at this time.

Part IV – Permits and Commitments

PERMITS CHECKLIST

Permits (mark all that apply)

Likely Required

Army Corps of Engineers (404/Section10 Permit)

Nationwide Permit (NWP) Regional General Permit (RGP) Individual Permit (IP) Other

Х	

This is page 20 of 23 Project name: <u>SR 140 over Big Blue River Bridge Replacement</u> Date: <u>September 11, 2024</u>

County	Rush and Henry	Route	SR 140	Des. No.	2002071
	Department of Environmental Ma	nagement			
(4)	01/Rule 5)				
	Nationwide Permit (NWP)	N .			
	Regional General Permit (RGP Individual Permit (IP))	X		
	Isolated Wetlands		~		
	Rule 5		X		
	Other				
IN	Department of Natural Resources	;			
	Construction in a Floodway		X		
	Navigable Waterway Permit				
	Other				
Mi	tigation Required		Х		
US	S Coast Guard Section 9 Bridge Pe	ermit			
Ot	hers (Please discuss in the discus	ssion belov	v)		

List the permits likely required for the project and summarize why the permits are needed, including permits designated as "Other."

Per coordination with INDOT EWPSO on January 11, 2024, due to impacts to likely Waters of the U.S., a U.S. Army Corps of Engineers (USACE) Section 404 Nationwide Permit (NWP), an IDEM 401 Individual Permit, and an IDNR Construction in a Floodway (CIF) Permit, and an IDEM construction Stormwater General Permit (CGSP) (formerly Rule 5) will be required. Stream mitigation will likely be required due to cumulative impacts to streams greater than 300 feet. Tree mitigation will likely be required due to tree removal greater than 0.1 acre.

Bat mitigation is necessary per the USFWS.

Applicable recommendations provided by resource agencies are included in the Environmental Commitments section of this document. If permits are found to be necessary, the conditions of the permit will be requirements of the project and will supersede these recommendations.

It is the responsibility of the project sponsor to identify and obtain all required permits.

ENVIRONMENTAL COMMITMENTS

List all commitments and include the name of agency/organization requesting/requiring the commitment(s). Listed commitments should be numbered.

Firm:

- 1) If the scope of work or permanent or temporary ROW amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately. (INDOT ESD and INDOT Greenfield District)
- 2) It is the responsibility of the project sponsor to notify school corporations and emergency services at least two weeks prior to any construction that would block or limit access. (INDOT ESD)
- 3) A "Reinitiation Notice" is required if: more than 1.02 acres of trees are to be cleared; the amount or extent of incidental take of Indiana bat and/or northern long-eared bat is exceeded; new information about listed species in encountered; new species is listed or critical habitat designated that the project may affect; the project is modified in a manner that causes an effect to the listed species; or, new information reveals that the project may affect listed species or critical habitat in a manner not considered in the BO or the project information. (USFWS)
- 4) Contractors must take care when handling dead or injured bats (regardless of species), and any other federally listed species that are found at the Project site in order to preserve biological material in the best possible condition and protect the handler from exposure to diseases, such as rabies. Project personnel are responsible for ensuring that any evidence

This is page 21 of 23 Project name: <u>SR 140 over Big Blue River Bridge Replacement</u> Date: <u>September 11, 2024</u>

•		D (00.440		0000074		
County	Rush and Henry	Route	SR 140	Des. No.	2002071		
	listed species is required in the BO is exceeded, and t	all cases to enable to o ensure that the ter f any bat (regardless	he USFWS to de ms and conditio s of species), or	rily disturbed. Reporting the etermine whether the level of ns are appropriate and effe- other endangered or threat S)	incidental take exempted b ctive. Parties finding a dead		
5)	The INDOT Project Manager will assure that \$20,259.75 of Preliminary Engineering funds will be allocated to the Rangewide In-Lieu Fee Program, administrated by The Conservation Fund, to resolve formal consultation under the Rangewide Programmatic (1.02- acres X 1.75 X \$11,350 = \$20,259.75). Payment shall be in process for Ready for Contracts (RFC) date. (USFWS)						
6)	construction will begin afte Inspection of the structure	r July 5, 2025, an i should check for pre signs of bats or birds	nspection of the sence of bats/ba . If signs of bats	r than two (2) years prior to structure by a qualified ind at indicators and/or presence or birds are documented duri NDOT ESD and USFWS)	dividual, must be performed e of birds. The results of th		
7)	Bird treaty Act (MBTA) during prior to the start of and during during the nesting season. season (September 8 – Apr	ng the July 5, 2023, ng the nesting season Nests without eggs il 30) and during the ng should be screene	inspection. Avoi n. Nests without or young should nesting season if d or buffered fro	i.e. nests) by a bird species dance and minimization mea eggs or young should be ren be removed prior to constru disturbed during the nesting m active construction. Detai DOT ESD)	asures must be implemente noved prior to the start of an uction during the non-nestin season (May 1 – Septembe		
8)	Big Blue River will be labele	d as "Do Not Disturb"	on project plans	. (INDOT ESD)			
9)	The Big Blue River is located within the project area and is mapped as an IDEM 303d Listed Stream. Big Blue River is listed for E. coli. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure. This has been added as a firm commitment. (INDOT ESD)						
10)	low, assuming workers are	not eating biota sur	rounding or asso construction, add	xposure to PCBs and mercu cciated with the water body. litional investigation may be nitment. (INDOT ESD)	Workers will be informed.		
11)				rs working in areas of knowr onmental commitments, inc			
12)	Lighting AMM 1: Direct temp	oorary lighting away fi	rom suitable habi	tat during the active season.	(USFWS)		
13)	Tree Removal AMM 1: Mo removal. (USFWS)	dify all phases/aspe	ct of the project	(e.g., temporary work area	as, alignments) to avoid tre		
14)		nd how they are mar	ked in the field (e	specified in project plans e.g., install bright colored flag s)			
For Fur	her Consideration:						
15)	except for work within seale	ed structures such as erated below Ordinar	caissons or coff	uring the fish spawning seas rerdams that were installed p lark during this time unless	prior to the spawning seasor		
16)				ropriate situations. Suitable r shelves in culverts, amph			

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Indiana Department of Transportation							
County	Rush and Henry	Route	SR 140	Des. No.	2002071		
	fencing. (USFWS and IDNR)						
17)	Minimize the extent of hard a riprap is utilized for bank stabi	· · · /	•	5 5 5			
18)	Restrict below low water work around the bridge abutments,				s, shaping of the spill slopes		
19)	All plant material, mud, debris waterway to prevent the sprea				efore entering or leaving the		
20)	Do not construct any temporal	y run arounds, acc	ess bridges, cause	ways, cofferdams, diversior	is, or pumparounds. (IDNR)		
21)	Ensure that all repairs are cor (USFWS)	npleted with the lea	ast toxic epoxy proc	duct available, both now an	d during future maintenance.		
22)	Plant five trees, at least 2 inc greater DBH. (IDNR)	hes in diameter-at	-breast height (DBF	H), for each tree which is re	emoved that is ten inches or		
23)	Protect the area around and appropriate structural armame	•	• •	points, down to the waterw	ay's normal flow level, with		
24)	Riprap must not be placed in aquatic or aquatic organism p used only at the toe of the s grasses, sedges, wildflowers bank/floodway stabilization pu	assage (riprap mu sideslopes up to tl s, shrubs, and tr	ist not be placed a he ordinary high w ees native to Rus	bove the existing streambe ater mark (OHWM). The g sh and Henry Counties	ed elevation). Riprap may be geotextiles and a mixture of		

25) Use minimum average 6-inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids. (IDNR)

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Appendix A INDOT Supporting Information

Categorical Exclusion Level Thresholds Des 2002071

	РСЕ	Level 1	Level 2	Level 3	Level 4 ¹
Section 106	Falls within guidelines of Minor Projects PA	"No Historic Properties Affected"	"No Adverse Effect"	-	"Adverse Effect" Or Historic Bridge involvement ²
Stream Impacts ³	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	USACE Individual 404 Permit ⁴
Wetland Impacts ³	No adverse impacts to wetlands	< 0.1 acre	-	< 1.0 acre	\geq 1.0 acre
Right-of-way ⁵	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations ⁶	None	-	-	< 5	\geq 5
Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat)*	"No Effect", "Not likely to Adversely Affect" (With select AMMs ⁷)	"Not likely to Adversely Affect" (With any AMMs or commitments)	-	"Likely to Adversely Affect"	Project does not fall under Species Specific Programmatic ⁸
Threatened/Endangered Species (Any other species)*	Falls within guidelines of USFWS 2013 Interim Policy or "No Effect"	"Not likely to Adversely Affect"	-	-	"Likely to Adversely Affect"
Environmental Justice	No disproportionately high and adverse impacts	-	-	-	Potential ⁹
Sole Source Aquifer	No Detailed Groundwater Assessment	-	-	-	Detailed Groundwater Assessment
Floodplain	No Substantial Impacts	-	-	-	Substantial Impacts
Section 4(f) Impacts	None	-	-	-	Any ¹⁰
Section 6(f) Impacts	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Noise Analysis Required	No	-	-	-	Yes
Air Quality Analysis Required	No	-	-	-	Yes ¹¹
 Approval Level District Env. (DE) Env. Serv. Div. (ESD) FHWA 	Concurrence by DE or ESD	DE or ESD	DE or ESD	DE and/or ESD	DE and/or ESD; and FHWA

¹ Coordinate with INDOT Environmental Services Division. INDOT will then coordinate with the appropriate FHWA Environmental Specialist.

² Any involvement with a bridge processed under the Historic Bridge Programmatic Agreement.

³ Total permanent impacts to streams (linear feet) and wetlands (acres).

⁴ US Army Corps of Engineers Individual 404 Permit

⁵ Total permanent and temporary right-of-way. This does not include reacquisition of existing apparent right-of-way.

⁶ If any relocations are within an area with a known or suspected Environmental Justice (EJ) or disadvantaged population, or has greater than 5 relocations, a conversation with FHWA, through INDOT ESD, is needed to confirm NEPA classification and outreach plan for the project.

⁷ Avoidance and Mitigation Measures (AMMs) determined by the IPAC determination key to be required that are not tree AMMs, bridge AMMs, or structure AMMs.

⁸ Projects that do not fall under a Species Specific Programmatic and results in a "Likely to Adversely Affect". Other findings can be processed as a lower-level CE. ⁹ Potential for causing a disproportionately high and adverse impact.

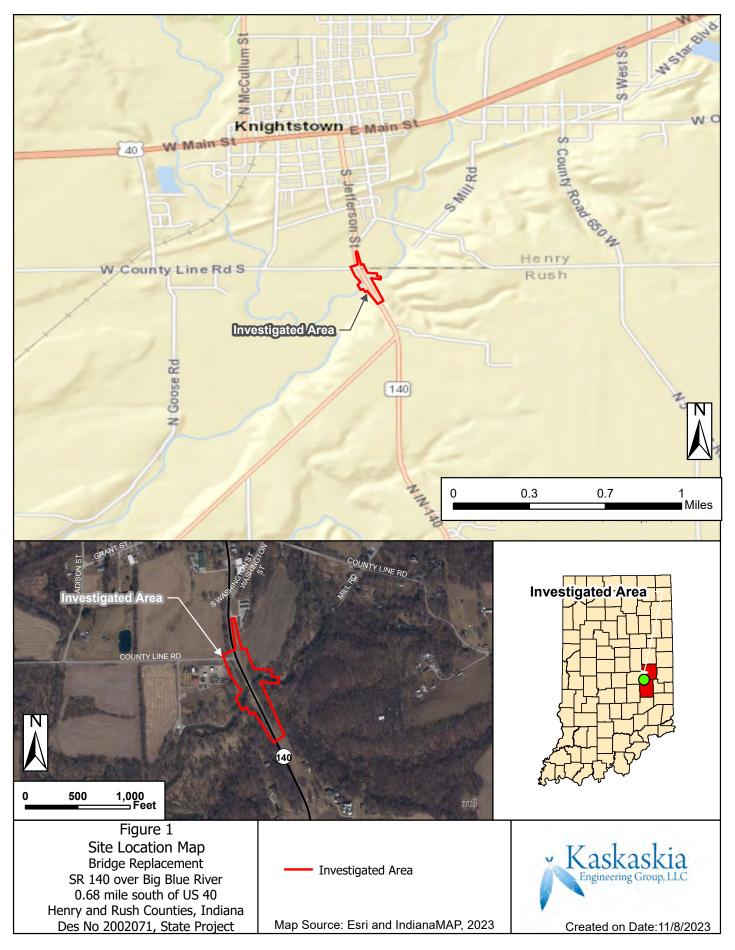
¹⁰ Section 4(f) use resulting in an Individual, Programmatic, or *de minimis* evaluation. The only exception is a *de minimis* evaluation for historic properties (Effective January 2, 2020). If a historic property *de minimis* and no other use, mark the *None* column.

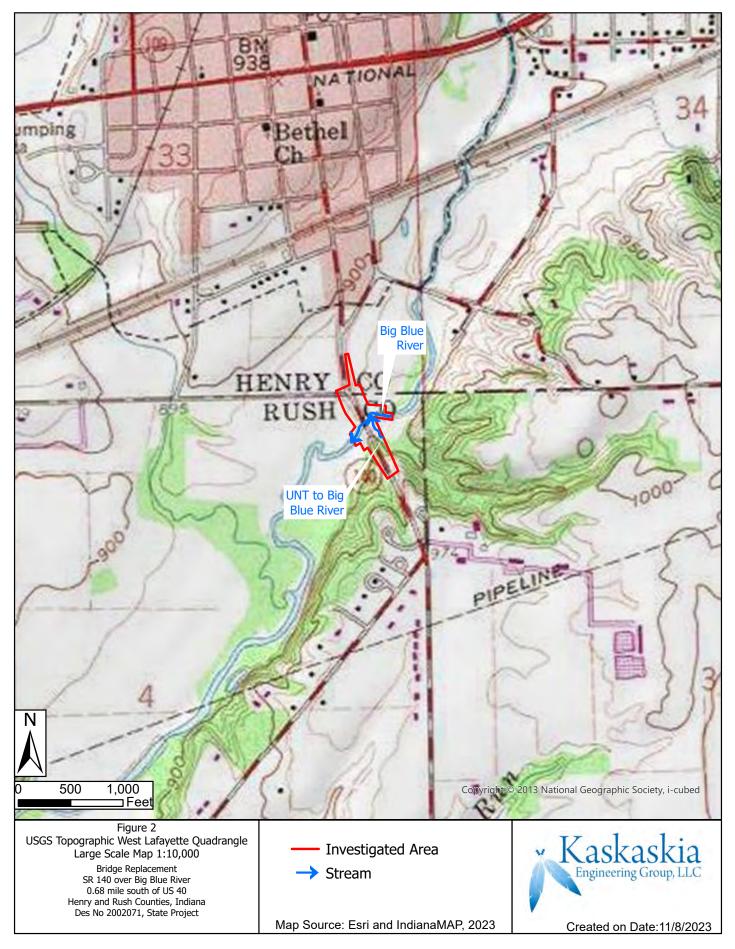
¹¹ Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

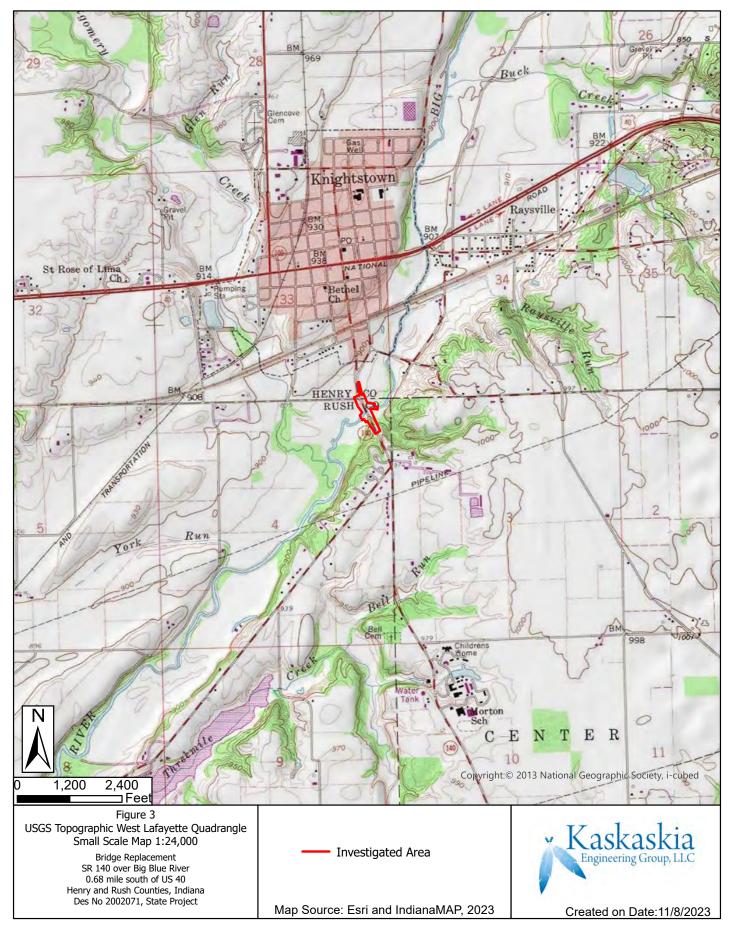
* Includes the threatened/endangered species critical habitat

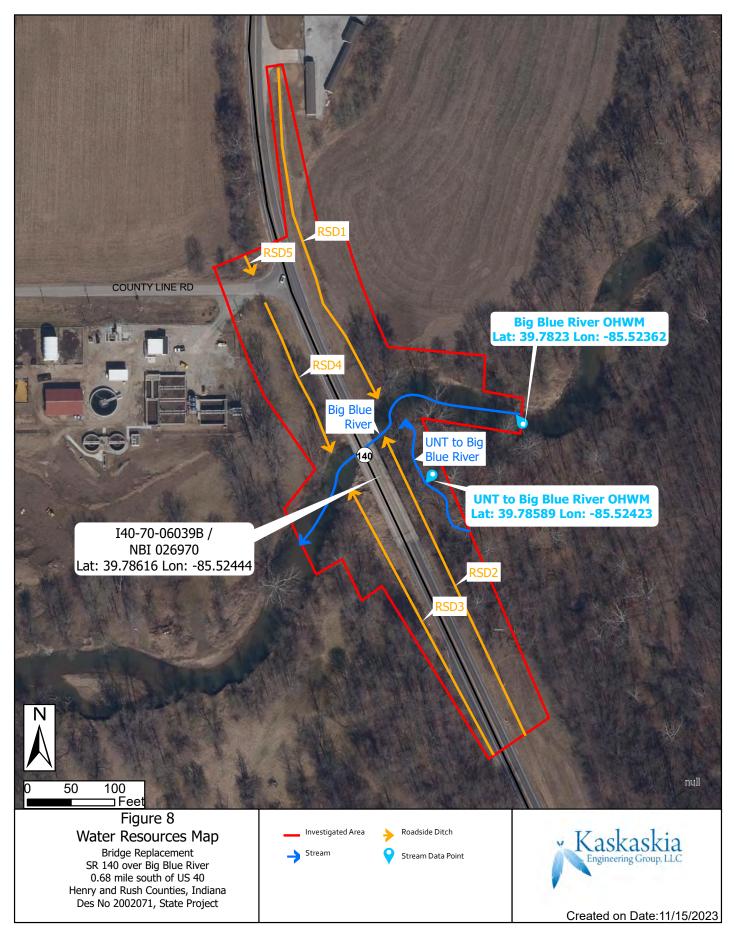
Note: Substantial public or agency controversy may require a higher-level NEPA document.

Appendix B Graphics









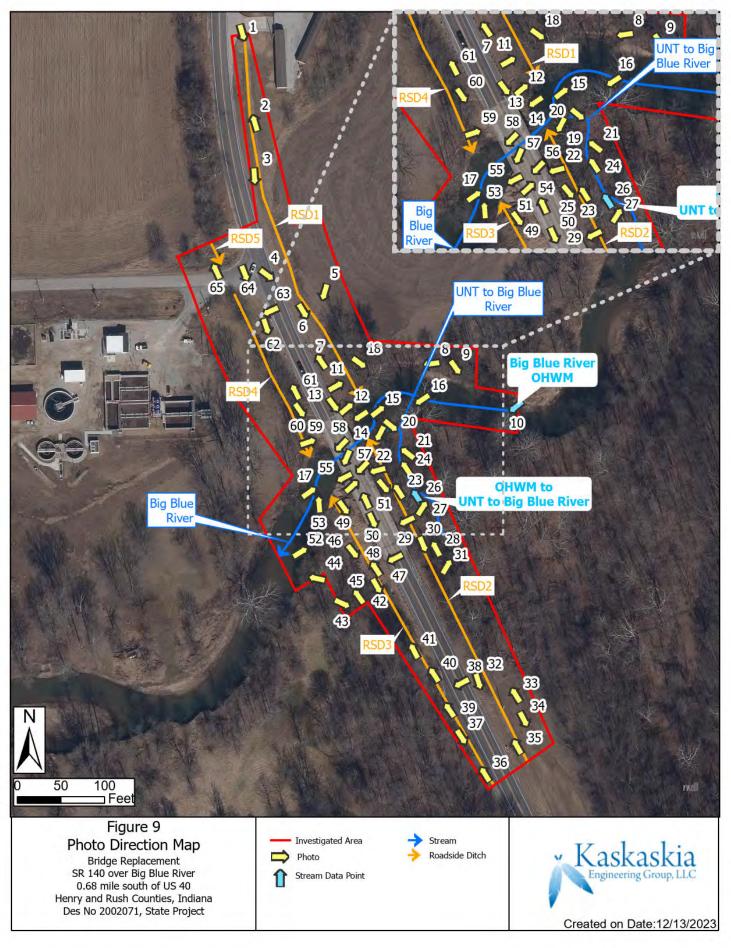




Photo 1: Looking southeast along RSD1, from the northeast corner of the investigated area.



Photo 2: Looking northwest along RSD1, within the northeast quadrant of the investigated area.



Photo 3: Looking southeast along RSD1, within the northeast quadrant of the investigated area.



Photo 4: Looking southeast, along RSD1, toward where the riparian corridor of the south bank of Big Blue River meets SR 140.



Photo 5: Looking southwest from the southwest edge of the south bank riparian corridor and the intersection of SR 140.



Photo 6: Looking southeast along RSD1 toward Big Blue River from the northeast quadrant of the investigated area.



Photo 7: Looking northwest along RSD1 from the southeast edge of the south bank riparian corridor and the intersection of SR 140.



Photo 8: Looking southwest, along the north bank the riparian corridor, from the central northeast edge of the investigated area.

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Photo 9: Looking southeast, along the north bank the riparian corridor, from the central northeast edge of the investigated area.

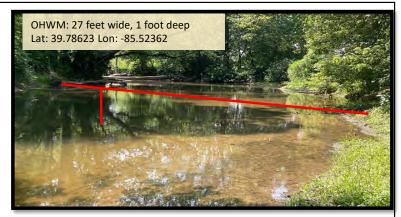


Photo 10: Looking southwest (downstream) at the OHWM of Big Blue River from approximately 250 feet northeast (upstream) from the bridge (140-70-06039 B / NBI 026970).

(Lat: 39.78623 Lon: -85.52362)



Photo 11: Looking northeast along a short drainage from the northeast corner of the bridge.



Photo 12: Looking northeast along the drainage from the northeast corner of the bridge.

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Photo 13: Looking southeast, across Big Blue River, from the northeast bank.



Photo 14: Looking southwest, under the bridge from the northeast corner of the bridge. There were no signs of bats or birds.



Photo 15: Looking northeast (upstream) from the south bank at the southeast corner of the bridge.



Photo 16: Looking southwest (downstream) at the opening of the bridge from the south bank southeast of the bridge.

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Photo 17: Looking northeast (upstream) from the southwest side of the bridge. There were no signs of bats.



Photo 18: Looking southeast (slightly upstream) at the southeast bank from the northeast bank of Big Blue River.



Photo 19: Looking southwest (downstream) at the west opening of the bridge from the south bank of Big Blue River southeast of the bridge.



Photo 20: Looking southeast (upstream) at UNT to Big Blue River from where it joins Big Blue River southeast of the bridge.



Photo 21: Looking northwest (downstream) from just inside the forest at the outlet of UNT to Big Blue River.



Photo 22: Looking west at the drainage from the southeast corner of the bridge.



Photo 23: Looking northwest along the bridge from the southeast corner of the bridge.



Photo 24: Looking northwest (upstream) along UNT to Big Blue River from upstream.



Photo 25: Looking southeast at the southwest corner of the bridge from the south bank of Big Blue River.

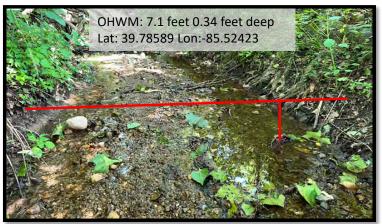


Photo 26:Looking northwest (downstream) at the OHWM of UNT to Big Blue River. The OHWM was 7.1 feet wide and 0.34 feet deep. Lat: 39.78589 Lon:-85.52423



Photo 27: Looking northeast at the forest on the east bank of UNT to Big Blue River



Photo 28: Looking northwest from the top of the southeast slope and southeast corner of the bridge.



Photo 29: Looking southwest under the bridge from the southeast corner. There were no signs of birds or bats.



Photo 30: Looking southeast along the southeast slope of SR 146 and the southeast corner of the bridge.



Photo 31: Looking northeast into the forest adjacent to the southeast corner of the bridge between the southeast side of SR 140 and UNT to Big Blue River.



Photo 32: Looking southeast along RSD2 from its center.



Photo 33: Looking northwest where the residential lawn meets the forest in the southwest quadrant of the investigated area.



Photo 34: Looking southeast along the residential lawn between RSD2 and the forest in the southeast quadrant of the investigated area.



Photo 35: Looking northwest along RSD2 from the southeast corner of the investigated area.



Photo 36: Looking northwest along RSD3 from the southeast corner of the investigated area.



Photo 37: Looking southeast at the beginning of RSD3, from the southwest corner of the investigated area.



Photo 38: Looking southwest at the entrance to the road/path over RSD3 in the southwest quadrant of the investigated area.



Photo 39: Looking northwest at the drive pipe along RSD3 that goes under the entrance to the road/path in the southwest investigated area.



Photo 40: Looking northwest along RSD3 from the entrance to the road/path in the southwest quadrant of the investigated area.



Photo 41: Looking northwest toward the end of the concrete section of RSD3.



Photo 42: Looking southeast along RSD3 from the southwest corner of the bridge.



Photo 43: Looking southeast at the forest in the central west of the investigate area.:



Photo 44: Looking northwest from the south bank of Big Blue River southwest of the bridge.



Photo 45: Looking northwest from the top of the slope adjacent to the southwest corner of the bridge.



Photo 46: Looking southeast, upslope, along RSD3 as it comes along the southwest side of the bridge.



Photo 47: Looking southwest at the edge of the forest adjacent to the utility corridor on the southwest side of the bridge.



Photo 48: Looking northwest at the grassy area along the southwest side of the bridge.



Photo 49: Looking southeast along the southwest side of the bridge.



Photo 50: Looking southeast at the south headwall of the bridge. There were no signs or bats or birds.



Photo 51: Looking northwest from under the south side of the bridge.



Photo 52: Looking northeast from the south bank of Big Blue River on the southwest side of the bridge.



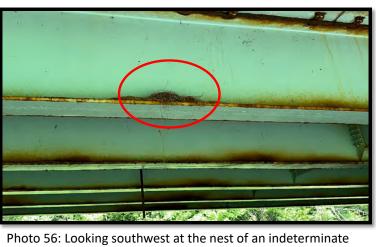
Photo 53: Looking north at the southwest (downstream) opening of the bridge from the south bank in southwest corner of the bridge.



Photo 54: Looking northeast at the terrestrial animal tracks under the south end of the bridge.



Photo 55: Looking southwest (downstream) along Big Blue River from under the southwest end of the bridge.



species of bird under the south end of the bridge.

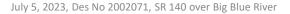




Photo 57: Looking southwest at the scour under the south end of the bridge.



Photo 58: Looking southwest (downstream) at Big Blue River from the deck of the bridge.



Photo 59: Looking northeast through the north end of the bridge. There were no signs of bat or birds.



Photo 60: Looking southeast along the west side of the bridge from the northwest bank of Big Blue River.



Photo 61: Looking northwest along RSD4 from the northwest corner of the bridge.



Photo 62: Looking southeast along RSD4 from the northwest approach.

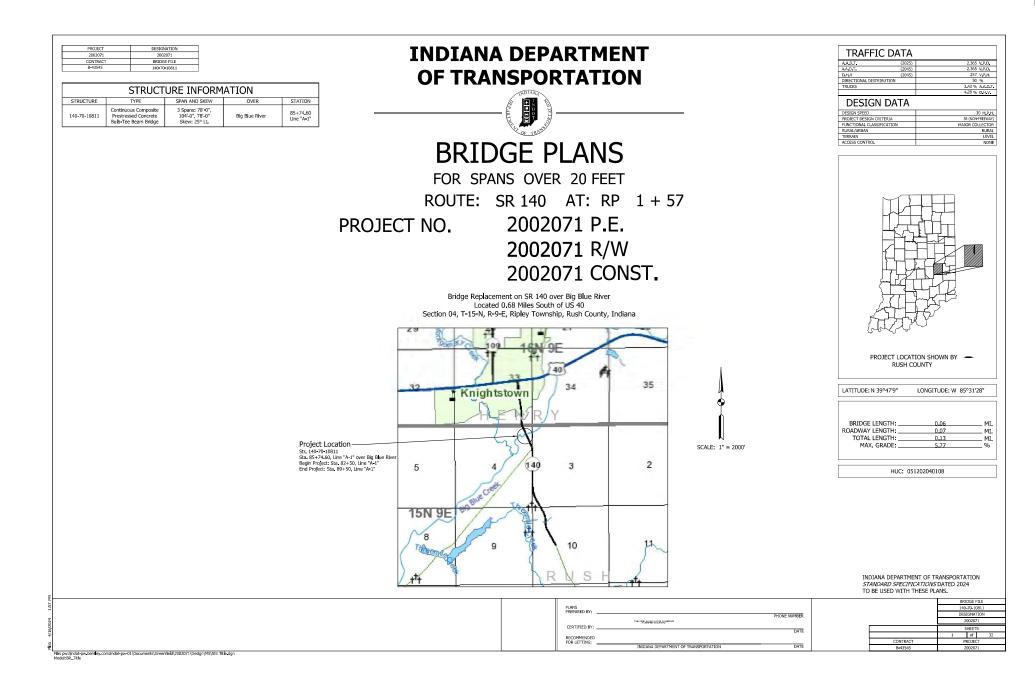


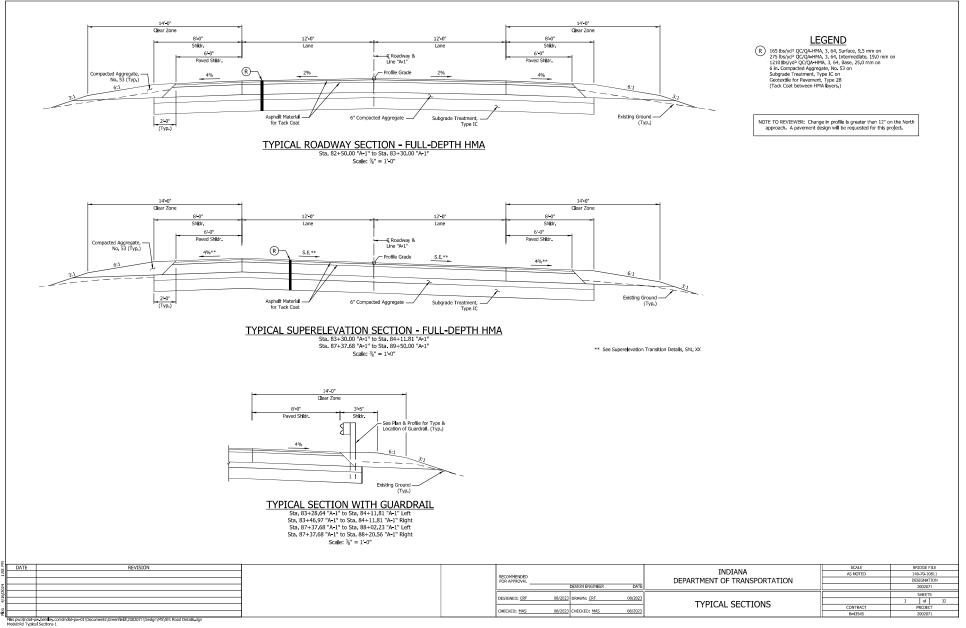
Photo 63: Looking southwest across the row crops in the northwest corridor.



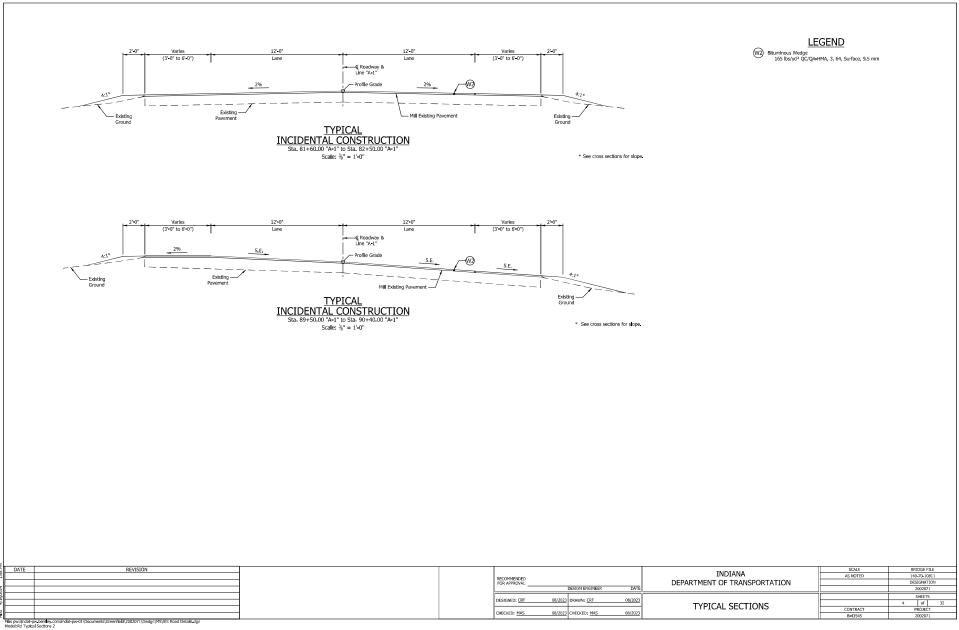
Photo 64: Looking southeast along RSD4 from the intersection of County Line Rd (1200 N) and SR 140.

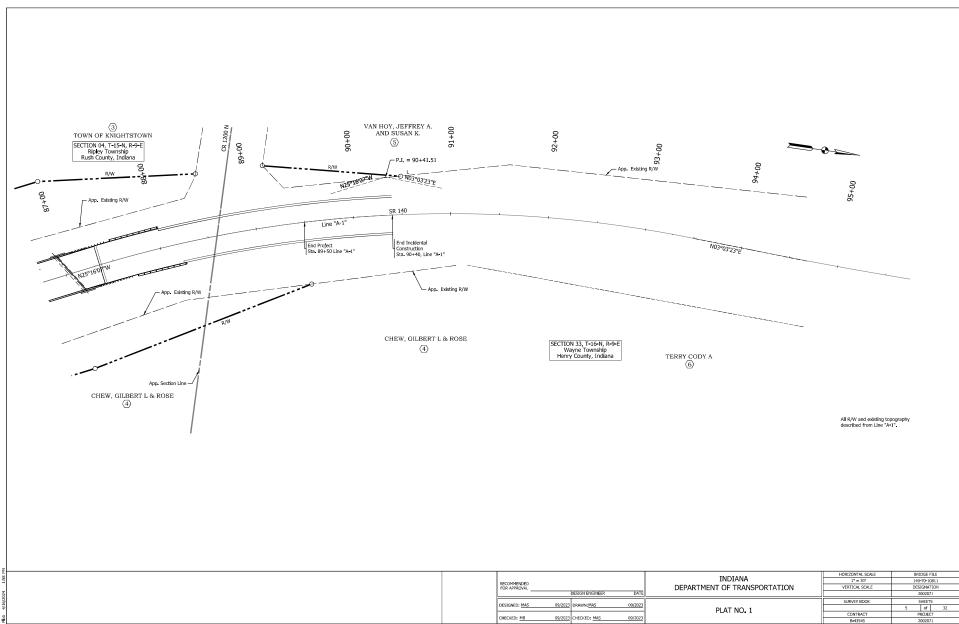
Photo 65: Looking northwest along RSD5 from the intersection of County Line Road and SR 140.	



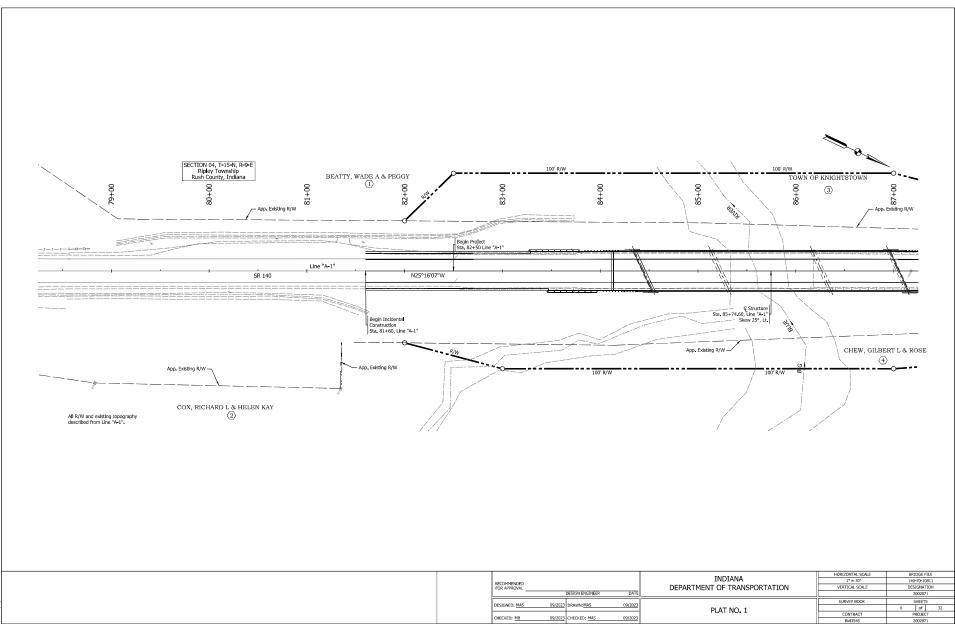


Appendix B Page 24 of 36

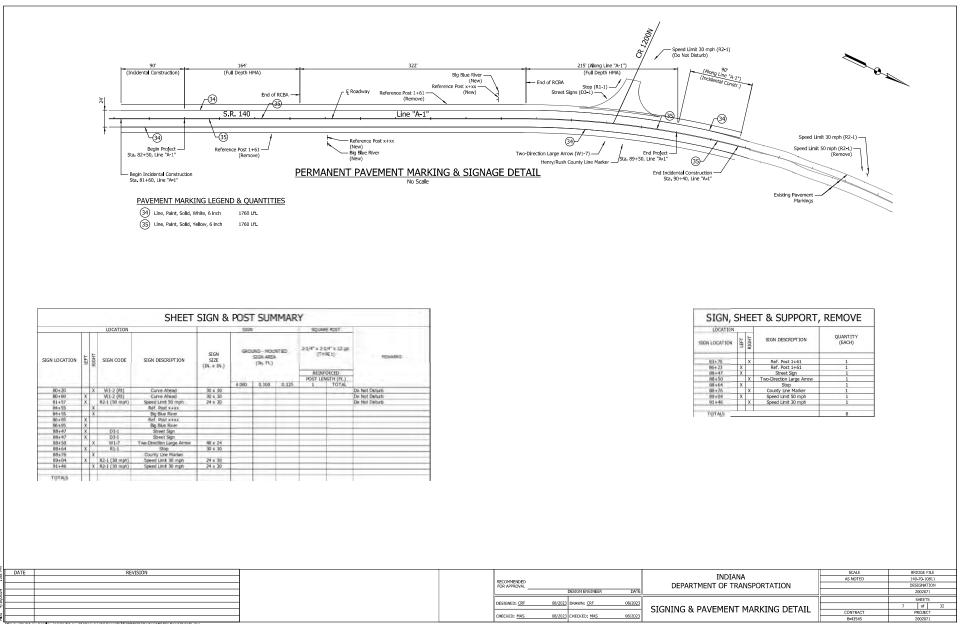




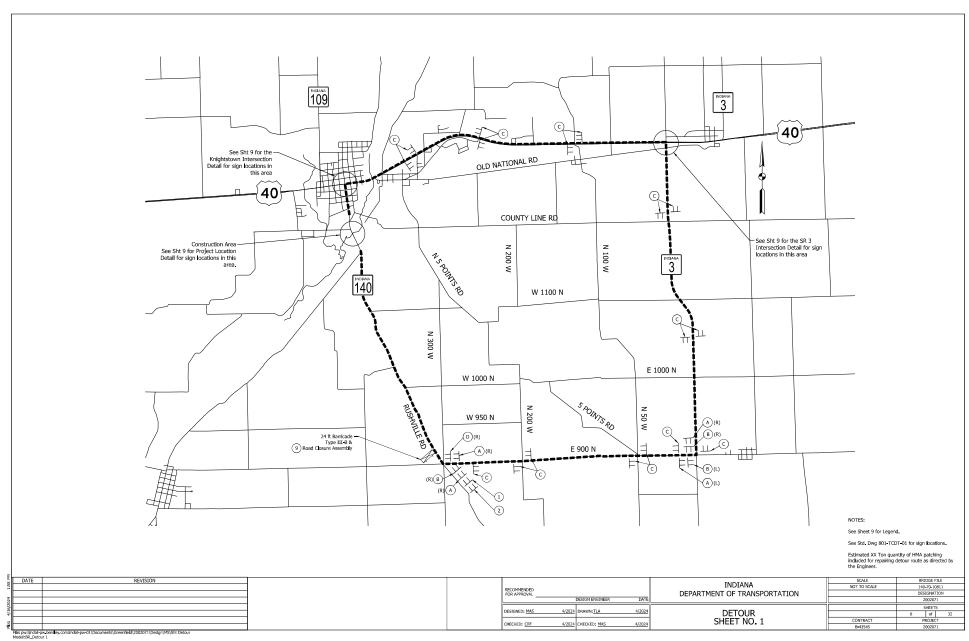
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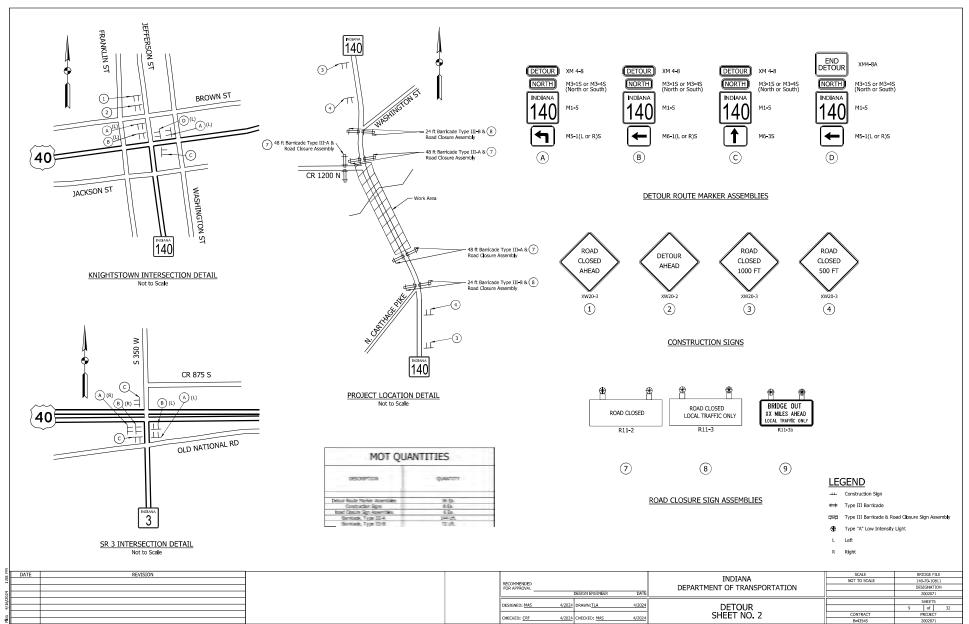


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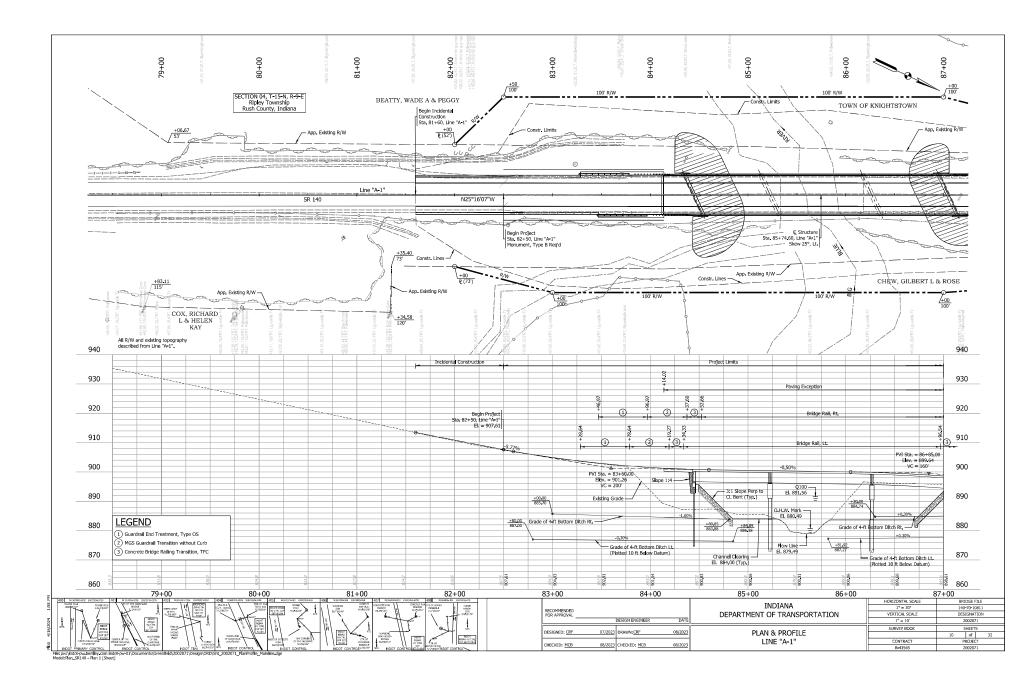


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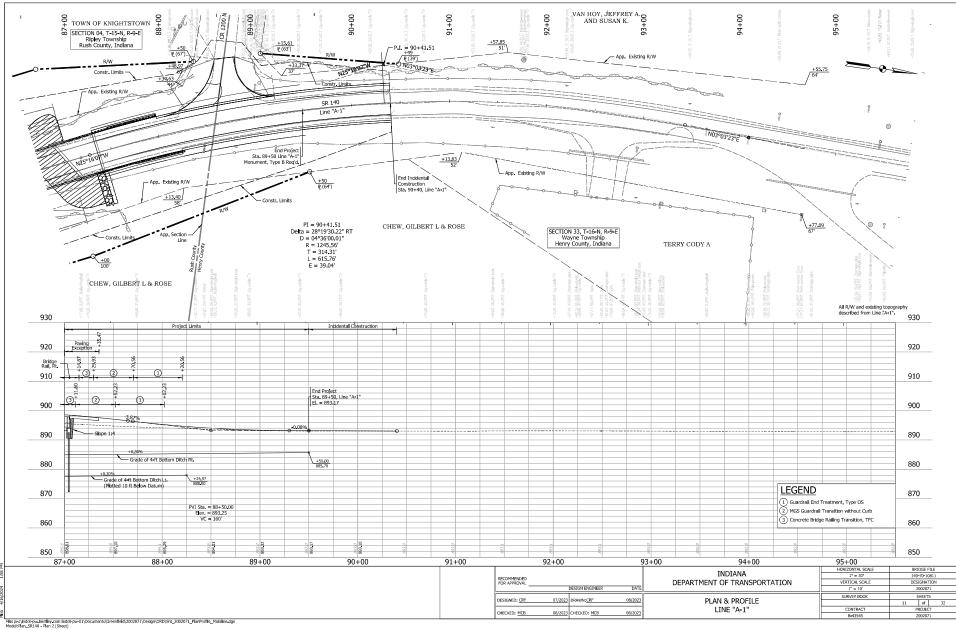


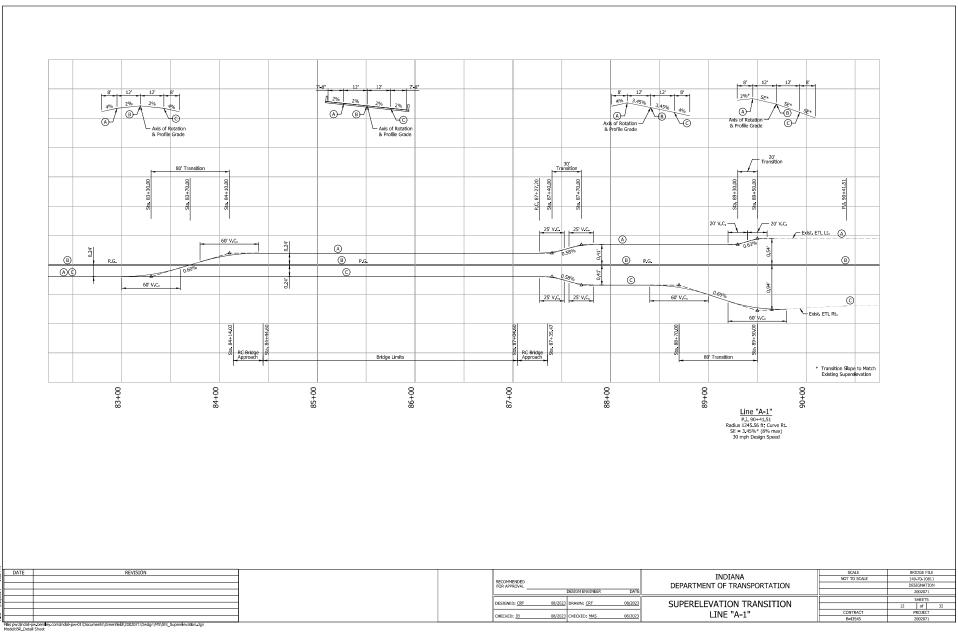


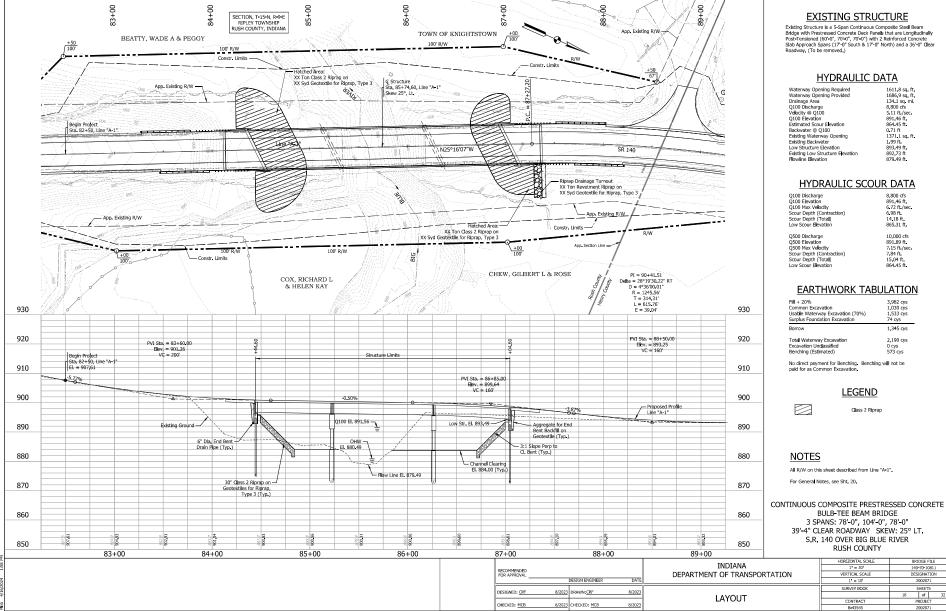
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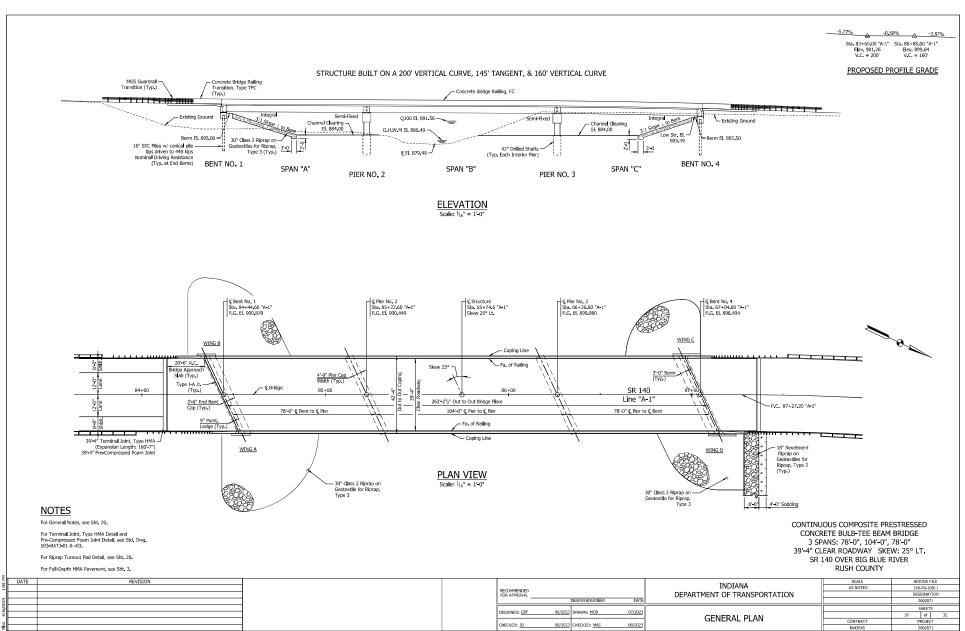
Appendix B Page 31 of 36



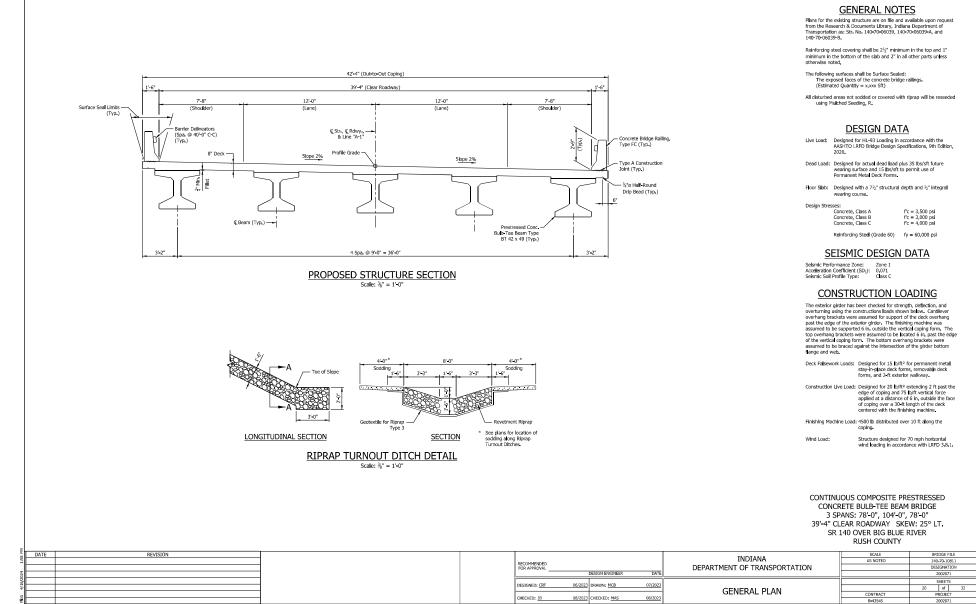




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INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 PHONE: (317) 694-8283 Eric Holcomb, Governor Michael Smith, Commissioner

DATE SAMPLE LETTER (Sent out October 9, 2023 and August 14, 2024)

Re: Early Coordination Letter, Des. No.: 2002071, Bridge Project on SR 140 over Big Blue River, 0.68 Mile South of US 40, Rush County, Indiana KEG No. 19-1164.04

Dear Interested Party,

The Indiana Department of Transportation (INDOT), with federal funding, intends to proceed with a project involving the aforementioned bridge in Rush County. This letter is part of the early coordination phase of the environmental review process. We are requesting comments from your area of expertise regarding any possible environmental effects associated with this project. **Please use the above designation number and description in your reply**. We will incorporate your comments into a study of the project's environmental impacts.

This project is located on State Route (SR) 140 over Big Blue River, 0.68 mile south of US 40 in Rush County, Indiana. This section of SR 140 is a two lane *Rural Major Collector*. The existing SR 140 approach cross section consists of two 12-foot through lanes bordered by a 6-foot paved shoulder. The existing structure is a 5-span continuous composite steel beam with prestressed concrete deck panels (Str. #140-70-06039 B / NBI 026970). The draft need is due to the deterioration of the structure: the deck (rating 3 out of 9) is in serious condition, and the wearing surface, superstructure, substructure, and channel/channel protection (rating 5 out of 9) are in fair condition. The draft purpose is to have a structure with a condition rating of at least 7 (good condition) out of 9. The approximate existing right-of-way (ROW) varies within the project limits: west of SR 140, the existing ROW varies from 44 feet to 52 feet, and east of SR 140, the existing ROW varies from the SR 140 centerline.

The proposed project is anticipated to include a total bridge replacement and reconstruction of the approach roadway. The replacement structure is anticipated to be a 3 span (78'-0", 104'-0", 78'-0") Continuous Composite Prestressed Concrete Bulb-Tee bridge, with a 42'-4" clear roadway width. The proposed bridge will be skewed at a 25 degree (left) skew. Revetment riprap turnouts are also anticipated. The project includes the acquisition of 0.43 acres of temporary right-of-way and 1.15 acres of permanent right-of-way. Proposed permanent right-of-way widths along SR 140 are 100 feet from centerline. The proposed temporary right-of-way is 120 feet from centerline, east of SR 140. The project will be approximately 1300 feet in length. The proposed maintenance of traffic (MOT) is anticipated to be a full road closure with a temporary runaround to the east of SR 140. Approximately 1.02 acres of trees will be cleared for this project. The project is anticipated to begin construction in November 2024.

Land use in the vicinity of the project is typical of a rural area with agricultural, and forested acres, in addition to be directly south of Knightstown, Indiana. Kaskaskia Engineering Group, LLC will perform the waters and wetlands determinations to identify water resources that may be present. The project is anticipated to qualify for the Rangewide Programmatic Agreement for the Indiana bat and northern long-eared bat by completing the Information for Planning and Consultation

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(IPaC). Coordination will occur with INDOT Cultural Resources Office (CRO) to evaluate the project area for archaeological and historic resources and for Section 106 compliance. The results of this investigation will be forwarded to the State Historic Preservation Officer (SHPO) for review and concurrence as appropriate.

Please provide your response within thirty (30) calendar days from the date of this letter. However, should you find that an extension to the response time is necessary; a reasonable amount may be granted upon request. If you have any questions regarding this matter, please feel free to contact me, Brigitte Moneymaker at 618-233-5877 or bmoneymaker@kaskaskiaeng.com, or Don McGhghy, INDOT Project Manager at 317-467-3920 or dmcghghy@indot.in.gov. Thank you in advance for your input.

Sincerely,

By the Mark

Brigitte Moneymaker Environmental Scientist Kaskaskia Engineering Group, LLC

Attachment -

- Early Coordination Letter Recipient List
- Maps (Location, Aerial, Topographic)
- Photo Log
- cc: Jeff Bislich, PE, WSP Cheryl Folz, PE, INDOT



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N758-ES Indianapolis, Indiana 46204 PHONE: (317) 694-8283 Eric Holcomb, Governor Michael Smith, Commissioner

The following agencies received Early Coordination Letters:

Federal Highway Administration Federal Office Building, Room 254 575 North Pennsylvania Street Indianapolis, Indiana 46204 (electronic coordination)

Indiana Geological and Water Survey 611 North Walnut Grove Bloomington, Indiana 47405 (electronic coordination)

INDOT Project Manager Indiana Department of Transportation Greenfield District 32 S Broadway St Hancock County Greenfield, Indiana 46140 (electronic coordination)

Commander Eighth Coast Guard District Attn: Bridge Branch 1222 Spruce Street Room 2.102D St Louis, Missouri 0 (electronic coordination)

Director Emergency Management Agency Rush County 101 East Second Street, Room 102 Rushville, Indiana 46173 (electronic coordination) Chief Indiana Department of Environmental Management Groundwater Section 100 N. Senate Avenue Indianapolis, Indiana 46204 (electronic coordination)

Environmental Coordinator Indiana Department of Natural Resources Division of Fish and Wildlife 402 West Washington Street Room W273 Indianapolis, Indiana 46204 (electronic coordination)

Environmental Section Manager Indiana Department of Transportation Greenfield District 33 S Broadway St Hancock County Greenfield, Indiana 46140 (electronic coordination)

U.S. Army Corps of Engineers Louisville District Indianapolis Regulatory Office Indianapolis, Indiana 46216 (electronic coordination)

Highway Superintendent Highway Department Rush County 1352 East State Road 44 Rushville, Indiana 46173 (electronic coordination) Regional Environmental Coordinator Midwest Regional Office National Park Service 601 Riverfront Drive Omaha, Nebraska 68102 (electronic coordination)

Field Environmental Officer, Chicago Regional Office U.S. Dept. of Housing & Urban Development Metcalfe Federal Building 77 West Jackson Boulevard, Room 2401 Chicago, Illinois 60604 (electronic coordination)

Field Supervisor U.S. Fish and Wildlife Service Bloomington Indiana Field Office 620 South Walker Street Bloomington, Indiana 0 (electronic coordination)

County Commissioner Rush County Northern District 101 East Second Street Room 102 Rushville, Indiana 46173 (electronic coordination)

Executive Director Planning and Zoning Department Rush County 101 East Second Street Room 102 Rushville, Indiana 46173 (electronic coordination)

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Section Chief, Wetlands and Stormwater Programs Indiana Department of Environmental Management 100 N. Senate Avenue Indianapolis, IN 46204

Eastern Indiana Regional Planning Commission 721 W 21st Street Connersville, Indiana 47331

Sheriff Rush County 131 East First Street Rushville, Indiana 46173

Chief Knightstown Police Department 24 S Washington Street Knightstown, Indiana 46148 (electronic coordination)

Knightstown Police Department 120 East Street Knightstown, Indiana 46148

Henry County Emergency Medical Services 127 N 12th Street New Castle, Indiana 47362

Presbyterian Church Bethel 112 S Franklin Street Knightstown, Indiana 46148

Added August 14, 2024 IDNR Oil & Gas Program Inspector District 5 402 W. Washington St, Rm 293 Indianapolis, IN 46204 State Conservationist Natural Resources Conservation Service 6013 Lakeside Boulevard Indianapolis, Indiana 46278

Ripley Township Trustee Rush County P. O. Box 182 Carthage, Indiana 46115 (electronic coordination)

President Town Council Knightstown 120 E. Main Street Knightstown, Indiana 46148

Superintendent of Water Knightstown Water Utility 7500 W 1200 N Knightstown, Indiana 46148 (electronic coordination)

Southwest District Ambulance 7984 W US-40 Knightstown, Indiana 46148

Knightstown Friends Church 214 E Brown Street Knightstown, Indiana 46148

Knightstown United Methodist 27 S Jefferson Street Knightstown, Indiana 46148 (electronic coordination) Surveyor Rush County 101 East Second Street Room 102 Rushville, Indiana 46173 (electronic coordination)

President Rush County Council 101 East Second Street Room 102 Rushville, Indiana 46173 (electronic coordination)

Clerk-Treasurer Knightstown 120 E. Main Street Knightstown, Indiana 46148 (electronic coordination)

Knightstown Fire Department 30 S Washington Street Knightstown, Indiana 46148 (electronic coordination)

Principal Knightstown High School 8149 W US HWY 40 Knightstown, Indiana 46148 (electronic coordination)

Knightstown Christian Church 138 W Main Street Knightstown, Indiana 46148 (electronic coordination)

Terry Cody Hoosier Youth Challenge Academy 10892 N State Road Knightstown, Indiana 46148 (electronic coordination)



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Organization and Project Information

Project ID:	19-1164.04
Des. ID:	2002071
Project Title:	SR 140 over Big Blue River Bridge Project
Name of Organization:	Kaskaskia Engineering Group LLC
Requested by:	Brigitte Moneymaker

Environmental Assessment Report

1. Geological Hazards:

- High liquefaction potential
- Floodway

2. Mineral Resources:

- Bedrock Resource: High Potential
- Sand and Gravel Resource: High Potential

3. Active or abandoned mineral resources extraction sites:

• Petroleum Exploration Wells

*All map layers from Indiana Map (maps.indiana.edu)

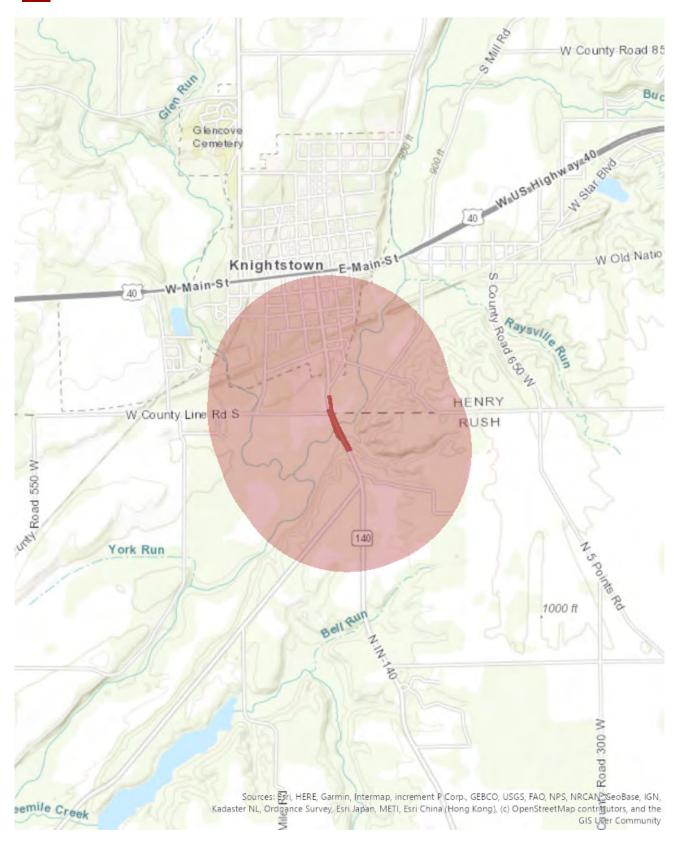
DISCLAIMER:

This document was compiled by Indiana University, Indiana Geological Survey, using data believed to be accurate; however, a degree of error is inherent in all data. This product is distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of these data and document to define the limits or jurisdiction of any federal, state, or local government. The data used to assemble this document are intended for use only at the published scale of the source data or smaller (see the metadata links below) and are for reference purposes only. They are not to be construed as a legal document or survey instrument. A detailed on-the-ground survey and historical analysis of a single site may differ from these data and this document.

This information was furnished by Indiana Geological Survey Address: 1001 E. 10th St., Bloomington, IN 47405 Email: IGSEnvir@indiana.edu

Phone: 812 855-7428

Date: October 09, 2023



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Metadata:

- https://igws.indiana.edu/pdms/
- $\bullet https://portal.igs.indiana.edu/arcgis/rest/services/Seismic_Earthquake_Liquefaction_Potential/MapServer/info/metadata/metadata.xml?format=default&output=html archives/info/metadata/metadat$
- $\bullet https://portal.igs.indiana.edu/arcgis/rest/services/Industrial_Minerals_SandAndGravel_Resources/MapServer/info/metadata/metadata.xml?format=default&output=html to the services/Industrial_Minerals_SandAndGravel_Resources/MapServer/info/metadata/metadata.xml?format=default&output=html to the services/Industrial_Minerals_SandAndGravel_Resources/Industrial_Minerals_SandAndGravel_Resources/Industrial_Minerals_SandAndGravel_Resources/Industrial_Minerals_SandAndGravel_Resources/Industrial_Minerals_SandAndGravel_Resources/Industrial_Minerals_SandAndGravel_Resources/Industrial_Minerals_SandAndGravel_Resources/Industrial_Minerals_SandAndGravel_Resources/Industrial_Minerals_SandAndGravel_Resources/Industrial_Minerals_SandAndGravel_Resources/Industrial_Minerals_SandAndGravel_Resources/Industrial_Mineral$
- $\bullet\ https://gisdata.in.gov/server/rest/services/Hosted/FIRM_Flood_Hazard_Zones_2023/FeatureServer/info/metadata$



States nent of ure Farm Production and Conservation Natural Resources Conservation Service Indiana State Office 6013 Lakeside Boulevard Indianapolis, Indiana 46278 317-295-5800

October 12, 2023

Brigitte Moneymaker 208 E Main Street #100 Belleville, Illinois 62220

Dear Ms. Moneymaker:

The proposed Bridge Project on SR 140 over Big Blue River, 0.68 Mile South of US 40, Rush County (Des.No.2002071) as referred to in your letter received October 9, 2023, will cause a conversion of prime farmland.

The attached packet of information is for your use competing Parts VI and VII of the AD-1006. After completion, the federal funding agency needs to forward one copy to NRCS for our records.

If you need additional information, please contact John Allen at 317-295-5859 or john.allen@usda.gov.

Sincerely,



Digitally signed by JOHN ALLEN Date: 2023.10.12 12:36:30 -04'00'

JOHN ALLEN State Soil Scientist

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FA	U.S. Departme	5		ATING						
PART I (To be completed by Federal Agency,)	Date O	of Land Evaluation Request							
Name of Project DES2002071_SR140) over Big Blue R	Federal Agency Involved FHWA								
Proposed Land Use INDOT ROW, slop			County and State Rush County, IN							
PART II (To be completed by NRCS)		Date R	Pate Request Received By Person Completing Form:							
Does the site contain Prime, Unique, Statewid (If no, the FPPA does not apply - do not comp			YES NO	Acres Irrigated Average Fa						
Major Crop(s) Corn	Farmable Land In Govt. Acres: 255429 % 98		 on	Amount of F Acres: 24		Defined in FP	PA			
Name of Land Evaluation System Used LESA	Name of State or Local S	Site Asses	Returned by NF	/ NRCS						
PART III (To be completed by Federal Agenc	y)					e Site Rating				
A. Total Acres To Be Converted Directly				Site A 0.096	Site B	Site C	Site D			
B. Total Acres To Be Converted Indirectly				0.000			-			
C. Total Acres In Site				0.096						
PART IV (To be completed by NRCS) Land I	Evaluation Information									
A. Total Acres Prime And Unique Farmland				0.95						
B. Total Acres Statewide Important or Local In	nportant Farmland			0.00						
C. Percentage Of Farmland in County Or Loca	al Govt. Unit To Be Converted			< 0.001						
D. Percentage Of Farmland in Govt. Jurisdiction	on With Same Or Higher Relati	ive Value		97						
PART V (To be completed by NRCS) Land E Relative Value of Farmland To Be Con		s)		57						
PART VI (To be completed by Federal Agence (Criteria are explained in 7 CFR 658.5 b. For Co		CPA-106	Maximum	Site A	Site B	Site C	Site D			
1. Area In Non-urban Use			(15)	10						
2. Perimeter In Non-urban Use			(10)	10						
3. Percent Of Site Being Farmed			(20)	0						
4. Protection Provided By State and Local Go	overnment		(20)	0						
5. Distance From Urban Built-up Area			(15)	5						
6. Distance To Urban Support Services			(15)	0		_				
7. Size Of Present Farm Unit Compared To A	Average		(10)	0						
8. Creation Of Non-farmable Farmland			(10)	0						
9. Availability Of Farm Support Services			(5)	0		_				
10. On-Farm Investments			(20)	0						
11. Effects Of Conversion On Farm Support S			(10)	0						
12. Compatibility With Existing Agricultural Us	e		160	5						
TOTAL SITE ASSESSMENT POINTS			160	30	0	0	0			
PART VII (To be completed by Federal Age	ency)		400			-				
Relative Value Of Farmland (From Part V)		100	57	0	0	0				
Total Site Assessment (From Part VI above of	r local site assessment)		160	30	0	0	0			
TOTAL POINTS (Total of above 2 lines)			260	87 Was A Loca	0 Il Site Asses	0 sment Used?	0			
Site Selected:	Date Of Selection	ction Was A Local Site Assessment Used?								
Reason For Selection:										
Location of the property in relation	ion to the needs of th	ne proj	ect							

Name of Federal agency representative completing this form: April Arroyo-Monroe

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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Eric J. Holcomb Governor

Brian C. Rockensuess Commissioner

October 13, 2023

Kaskaskia Engineering Group, LLC Attention: Brigitte Moneymaker 323 Main Street Evansville, IN 47708

Dear Brigitte Moneymaker:

Re: Wellhead Protection Area Proximity Determination Des No 2002071 Bridge Project on SR 140 over Big Blue River, 0.68 Mile South of US 40, Rush County, Indiana

Upon review of the above referenced project site, it has been determined that the proposed project area **is not located within** a Wellhead Protection Area. However, the proposed project area **is located within 2,700 feet** of a Wellhead Protection Area If the contact information is needed for the WHPA, please contact the reference located at the bottom of the letter for the appropriate information. The information is accurate to the best of our knowledge; however, there are in some cases a few factors that could impact the accuracy of this determination. Some Wellhead Protection Area Delineations have not been submitted, and many have not been approved by this office. In these cases, we use a 3,000-foot fixed radius buffer to make the proximity determination. To find the status of a Public Water Supply System's (PWSS's) Wellhead Protection Area Delineation Area Delineation please visit our tracking database at

http://www.in.gov/idem/cleanwater/2456.htm and scroll to the bottom of the page.

The project area **is not located within** a Source Water Assessment Area for a PWSS's surface water intake. The Source Water Assessment Area relates to the surface water drainage area that water could potentially flow and influence water quality for a PWSS's source of drinking water.

In the future, **please consider using this self-service tool** if it suits your needs. The Drinking Water Branch has a self-service tool which allows one to determine wellhead proximity without submitting the application form. Go to <u>https://www.in.gov/idem/cleanwater/pages/wellhead/</u> and use the instructions at the bottom of the page.



Please Reduce, Reuse, Recycle

Brigitte Moneymaker Page 2

If you have any additional questions, please feel free to contact me at the address above or at 317-233-9158 and aturnbow@idem.in.gov.

Sincerely,

Alisha Turnbow

Alisha Turnbow, Environmental Manager Ground Water Section Drinking Water Branch Office of Water Quality

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife Early Coordination/Environmental Assessment

DNR#: ER-26006

Request Received: October 9, 2023

Requestor:

Brigitte Moneymaker Kaskaskia Engineering Group, LLC 208 East Main Street, Suite 100 Belleville, IL 62220

Project:

SR 140 bridge (#140-70-06039 B / NBI 026970) replacement over Big Blue River, 0.68 miles south of US 40; KEG #19-1164.04, Des #2002071

County/Site Info: Rush County

The Indiana Department of Natural Resources has reviewed the above referenced project per your request. Our agency offers the following comments for your information and in accordance with the National Environmental Policy Act of 1969.

If our agency has regulatory jurisdiction over the project, the recommendations contained in this letter may become requirements of any permit issued. If we do not have permitting authority, all recommendations are voluntary.

Regulatory Assessment:

This proposal will require the formal approval for construction in a floodway under the Flood Control Act, IC 14-28-1. Please submit a copy of this letter with the permit application.

Natural Heritage Database:

The Natural Heritage Program's data have been checked. To date, no plant or animal species listed as state or federally threatened, endangered, or rare have been reported to occur in the project vicinity.

Fish and Wildlife Comments:

Avoid and minimize impacts to fish, wildlife, and botanical resources to the greatest extent possible, and compensate for impacts. The following are recommendations that address potential impacts identified in the proposed project area:

A) Stream Crossing Design

Bridges are preferred over culverts, and three-sided culverts are preferred over box or pipe culverts. Multiple culverts or culverts with multiple openings are not recommended for approval. These types of structures are often problematic for fish and wildlife passage as they tend to accumulate debris and become blocked. If box and pipe culverts are used, the culvert bottoms should be sumped a minimum of 6" (or 20% of the culvert height or diameter, whichever is greater up to a maximum of 2') below the stream bed elevation. Sumping is not required for bridges or three-sided culverts. Crossings must span the entire channel width (a minimum of 1.2 times the ordinary high-water mark width). Crossings must maintain the natural stream substrate within the structure (natural stream substrate must be replaced in sumped box and pipe culverts up to the existing flowline). Scour protection at the inlet and outlet must not extend above the existing flowline elevation. Stream depth, channel width and water velocities in the crossing structure during low-flow conditions must approximate those in the natural stream channel.

The new/replacement/rehabilitated crossing structure, and any bank stabilization under or around the structure, must not create conditions that are less favorable for wildlife passage when compared to existing conditions. Upgrading wildlife passage for replacement/rehabilitated structures is recommended whenever possible to improve wildlife/vehicle safety. White-tailed deer passage must be incorporated into all new structures where no structure previously existed. Minimum structure dimensions for white-tailed deer passage are 20 feet of width clearance (overall span of the structure) and 8 feet of height clearance measured from the ordinary high-water mark (OHWM). Bank lines must be maintained or restored within structures to allow for wildlife passage above the OHWM. All wildlife passage designs must include a smooth level pathway a minimum of 1-3 feet in width composed of natural substrate (soil, sand, gravel, etc.) or compacted aggregate fill over riprap (#2, #53, #73, etc.) tied into existing elevations both upstream and downstream. The width and location of the wildlife pathway is dependent on the wildlife species using the area.

There are several techniques and materials for incorporating wildlife passage into the design of a crossing structure if maintaining or restoring banklines is not possible. Coordination with a Regional Environmental Biologist to address wildlife passage issues before submitting a permit application (if required) is encouraged to avoid delays in the permitting process. The following links are good resources to consider in the design of stream crossing structures to maintain fish and wildlife passage:

https://www.fs.usda.gov/ccrc/tool/fishxing-fish-passage-learning-systems https://www.fs.usda.gov/wildlifecrossings/library/index.php https://www.fhwa.dot.gov/clas/ctip/wildlife_crossing_structures/ https://www.fhwa.dot.gov/engineering/hydraulics/pubs/11008/hif11008.pdf

B) Streambank Stabilization

Some form of bank stabilization is almost always needed with the construction, repair, replacement, or modification of a stream channel or crossing structure. For streambank stabilization and erosion control, regrading to a stable slope (2:1 or shallower) and establishing native vegetation along the banks are typically the most effective techniques and allow a vegetated stream bank to develop. A variety of methods to accomplish this include planting plugs, whips, container stock, seeding, and live stakes. In addition to vegetation establishment, some additional level of bioengineered bank stabilization may be needed under certain circumstances (inability to regrade to a stable slope, flow velocities that exceed the limits of vegetation alone, etc.). Combining vegetation with any of the following bank stabilization methods can provide additional bank protection while not compromising benefits to fish, wildlife, and botanical resources:

- Geotextiles (erosion control blankets and/or turf reinforcement mats that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles)
- Vegetated geogrids or soil lifts, fiber rolls, glacial stone, or riprap.

Riprap or other hard bank stabilization materials should be used only at the toe of the sideslopes up to the OHWM with the exception of areas directly under bridges for instance. The banks above the OHWM should be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to Central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. Information about bioengineering techniques can be found at the following link to a USDA/NRCS document that outlines many different bioengineering techniques for streambank stabilization: https://efotg.sc.egov.usda.gov/references/public/IA/Chapter-16_Streambank_and_Shoreline_Protection.pdf.

C) Riparian Habitat

We recommend a mitigation plan be developed (and submitted with the permit application, if required) for any unavoidable habitat impacts that will occur. The DNR's Habitat Mitigation Guidelines (and plant lists) can be found online at: https://www.in.gov/nrc/files/IB-17.pdf.

Impacts to non-wetland forest of one (1) acre or more in a rural or urban area should be mitigated at a minimum 2:1 ratio based on area of impact. Impacts to non-wetland forest under one (1) acre but at least 0.10 acre in a rural or urban area should be mitigated at a minimum 1:1 ratio based on area of impact. Impacts under 0.10 acre in a rural area typically do not require mitigation or additional plantings beyond seeding and stabilizing disturbed areas, though there are exceptions for high quality habitat sites. Impacts under 0.10 acre

in an urban area should be mitigated by replacing trees that are 10" diameter-at-breast height (dbh) or greater by planting five trees, 1" to 2" in dbh, for each tree which is removed that is 10" dbh or greater. Seeding and stabilizing disturbed areas is required regardless of the impact amount and location. If floodway impacts to forested wetland and non-wetland habitat areas combine to be 0.10 acres or more, mitigation should be done and coordinated with the biologist, as needed.

The mitigation site should be located in the floodway, downstream of the one (1) square mile drainage area of that stream (or another stream within the 8-digit HUC, preferably as close to the impact site as possible) and adjacent to existing forested riparian habitat.

The additional measures listed below should be implemented to avoid, minimize, or compensate for impacts to fish, wildlife, and botanical resources:

- Revegetate all bare and disturbed areas that are not currently mowed and maintained with a mixture of grasses, sedges, and wildflowers native to Central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion; turf-type grasses (including low-endophyte, friendly endophyte, and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used in currently mowed areas only. A native herbaceous seed mixture must include at least 5 species of grasses and sedges and 5 species of wildflowers.
- 2. Minimize and contain within the project limits in-channel disturbance and the clearing of trees and brush.
- 3. Do not work in the waterway from April 1 through June 30 without the prior written approval of the Division of Fish and Wildlife.
- 4. Do not cut any trees suitable for Indiana Bat or Northern Long-eared Bat roosting (3 inches or greater diameter-at-breast height, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
- 5. Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumparounds.
- 6. Use minimum average 6-inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
- 7. Do not use broken concrete as riprap.
- 8. Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.
- 9. Minimize the movement of resuspended bottom sediment from the immediate project area.
- 10. Do not deposit or allow construction/demolition materials or debris to fall or otherwise enter the waterway. Any incidental fallen material or debris in the waterway must be removed within 24 hours using best management practices, particularly lifting material out of the waterway and not dragging it across the streambed whenever possible.
- 11. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the waterbody or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
- 12. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use loosewoven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles (follow manufacturer's recommendations for selection and installation); seed and apply mulch on all other disturbed areas.

Contact Staff:

Our agency appreciates this opportunity to be of service. Please contact me at RVanVoorhis@dnr.IN.gov or (317) 232-8163 if we can be of further assistance.

Rachel Van Voorhis

Rachel Van Voorhis Environmental Coordinator Division of Fish and Wildlife Date: November 8, 2023



United States Department of the Interior

FISH AND WILDLIFE SERVICE Indiana Ecological Services Field Office 620 South Walker Street Bloomington, IN 47403-2121 Phone: (812) 334-4261 Fax: (812) 334-4273



In Reply Refer To:November 13, 2023Project code: 2024-0014940Project Name: SR 140 over Big Blue River, Bridge Replacement, DES 2002071

Subject: Consistency letter for the 'SR 140 over Big Blue River, Bridge Replacement, DES 2002071' project under the amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (NLEB).

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request dated November 13, 2023 to verify that the **SR 140 over Big Blue River, Bridge Replacement, DES 2002071** (Proposed Action) may rely on the amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion Opinion (dated March 23, 2023) 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. At least one of the qualification interview questions indicated an activity or portion of your project is consistent with a likely to adversely affect therefore, the overall determination for your project is, may affect, and is likely to adversely affect the endangered Indiana bat (*Myotis sodalis*) and/or the endangered northern long-eared bat (*Myotis septentrionalis*). Consultation with the Service pursuant to section 7(a)(2) of the ESA (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) is required.

This "<u>may affect - likely to adversely affect</u>" determination becomes effective when the lead Federal action agency or designated non-federal representative requests the Service rely on the PBO to satisfy the agency's consultation requirements for this project. Please provide this consistency letter to the lead Federal action agency or its designated non-federal representative for review, and as the agency deems appropriate, transmit to this Service Office for verification that the project is consistent with the PBO. This Service Office will respond by letter to the requesting Federal action agency or designated non-federal representative within 30 calendar days after receiving request for verification to:

- verify that the Proposed Action is consistent with the scope of actions covered under the PBO;
- verify that all applicable avoidance, minimization, and compensation measures are included in the action proposal;
- identify any action-specific monitoring and reporting requirements, consistent with the monitoring and reporting requirements of the PBO, and
- identify anticipated incidental take.

ESA Section 7 compliance for this Proposed Action is not complete until the Federal action agency or its designated non-federal representative receives a verification letter from 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.

For Proposed Actions that include bridge/culvert or structure removal, replacement, and/or maintenance activities: If your initial bridge/culvert or structure assessments failed to detect Indiana bats, but you later detect bats prior to, or during construction, please submit the Post Assessment Discovery of Bats at Bridge/Culvert or 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 may affect any other federally-listed or proposed species and/or designated critical habitat, additional consultation between the lead Federal action agency and this Service Office 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 advise the lead Federal action agency accordingly.

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

- Monarch Butterfly Danaus plexippus Candidate
- Tricolored Bat Perimyotis subflavus Proposed Endangered
- Whooping Crane Grus americana Experimental Population, Non-Essential

PROJECT DESCRIPTION

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

NAME

SR 140 over Big Blue River, Bridge Replacement, DES 2002071

DESCRIPTION

This project is located on State Route (SR) 140 over Big Blue River, approximately 0.68 mile south of US 40 in Rush and Henry Counties, Indiana. The proposed project is anticipated to include a total bridge replacement (Str. #140-70-06039 B / NBI 026970). In addition to the structure replacement activities, the project will include reconstruction of the approach roadway, roadside ditch work, grading, revetment riprap turnouts, and replacement of the guardrails. There is suitable summer habitat within the project area. The removal of 1.02 acres of trees within 100 feet of the roadway east and west of SR 140 is anticipated during the inactive season. The dominant species of the trees to be removed includes Norway Maple (Acer platanoides), Sycamore (Platanus occidentalis), Eastern Black Walnut (Juglans nigra), and Tree-of-Heaven (Ailanthus altissima). INDOT personnel from the Greenfield District stated on May 19, 2023 that a review of the USFWS database indicated 'there are ten documented Indiana Bat capture sites within a half mile of the project area'. The BIAS inspection by INDOT on November 18, 2022 did not find any evidence indicating bats were seen or heard on the bridge. An environmental inspection of the bridge by Kaskaskia Engineering Group, LLC on July 5, 2023 did not find evidence indicating bats were seen or heard on the bridge. Construction is anticipated to begin in Fall 2024. No permanent lighting is anticipated; however, temporary lighting changes are possible due to nighttime construction. This project will require mitigation under the In-Lieu Fee Program, (1.02 acres x 1.75 x \$11,350) = \$20,259.75.

The approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@39.7862765,-85.52465711478192,14z</u>



DETERMINATION KEY RESULT

Based on your answers provided, this project is likely to adversely affect the endangered Indiana bat and/or the endangered 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 conclusion and Incidental Take Statement provided in the amended February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023) 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?

No

8. 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 <u>summer survey guidance</u> 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 <u>User's</u> <u>Guide for the Range-wide Programmatic Consultation for Indiana Bat and Northern Long-eared Bat</u>.

Yes

9. 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 <u>summer survey guidance</u> for our current definitions of suitable habitat. *Yes*

- 10. Will the project clear more than 20 acres of suitable habitat per 5-mile section of road/rail? *No*
- 11. 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 <u>summer survey guidance</u> 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 <u>summer survey guidance</u> are valid for a minimum of two years from the completion of the survey unless new information (e.g., other nearby surveys) suggest otherwise.

No

12. 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.

Yes

13. Will the project remove or trim *any* habitat or trees that occur **within documented Indiana bat roosting/foraging habitat**^[1] or travel corridors^[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.

Yes

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

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

B) During the inactive season

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

Yes

16. 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.

B) During the inactive season

17. 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

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

Yes

19. 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?

B) During the inactive season

- 20. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces? *Yes*
- 21. Will the tree removal alter *any* **documented** Indiana bat roosts and/or alter any surrounding summer habitat **within** 0.25 mile of a documented roost? *Yes*
- 22. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

No

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

Yes

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

No

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

Yes

26. Does the project include slash pile burning?

No

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

28. 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 <u>summer survey guidance</u> for our current definitions of suitable habitat. *Yes*

29. 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 <u>User Guide Appendix D</u> 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

- Bat Assessment 2002071.pdf <u>https://ipac.ecosphere.fws.gov/project/</u> <u>WWYYS42T6VHP7CMNWKX7X5OIVA/</u> projectDocuments/134492237
- SR 140 Bridge Inspection Report_2022.pdf <u>https://ipac.ecosphere.fws.gov/project/</u> <u>WWYYS42T6VHP7CMNWKX7X5OIVA/</u> projectDocuments/134492242
- 30. 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

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

No

- 32. 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

- 33. Will the project involve the use of **temporary** lighting *during* the active season? *Yes*
- 34. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **temporary** lighting will be used?

Yes

- 35. Will the project install new or replace existing **permanent** lighting? *No*
- 36. 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

37. 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

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

No

39. Are the wetland or stream protection activities associated with compensatory wetland/ stream mitigation portion of this project consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because your activities associated with compensatory wetland/stream mitigation activities do not clear suitable summer habitat and are not within 0.5 miles of Indiana bat or NLEB hibernaculum.

40. 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

41. Is the habitat removal portion of this project consistent with a Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because tree removal that occurs within documented Indiana bat roosting/foraging habitat or travel corridors outside the active season will be done \leq 300 feet from the existing road/rail surface

11

42. Is the habitat removal portion of this project consistent with a Not Likely to Adversely Affect determination in this key?

Automatically answered

Yes, because the tree removal/trimming that occurs outside of the Indiana bat's active season occurs greater than 0.5 miles from the nearest hibernaculum, is less than 100 feet from the existing road/rail surface, includes clear demarcation of the trees that are to be removed, and does not alter documented roosts and/or surrounding summer habitat within 0.25 miles of a documented roost.

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

Automatically answered

Yes, because the tree removal/trimming that occurs outside of the NLEB's active season occurs greater than 0.5 miles from the nearest hibernaculum, is less than 100 feet from the existing road/rail surface, includes clear demarcation of the trees that are to be removed, and does not alter documented roosts and/or surrounding summer habitat within 0.25 miles of a documented roost.

44. 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

45. 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

46. Tree Removal AMM 1

Can *all* phases/aspects of the project (e.g., temporary work areas, alignments) be modified, to the extent practicable, to avoid tree removal^[1] in excess of what is required to implement the project safely?

Note: Tree Removal AMM 1 is a minimization measure, the full implementation of which may not always be practicable. Projects may still be NLAA as long as Tree Removal AMMs 2, 3, and 4 are implemented and LAA as long as Tree Removal AMMs 3, 5, 6, and 7 are implemented.

[1] The word "trees" as used in the AMMs refers to trees that are suitable habitat for each species within their range. See the USFWS' current summer survey guidance for our latest definitions of suitable habitat. *Yes*

47. Tree Removal AMM 3

Can tree removal be limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits)?

Yes

48. Lighting AMM 1

Will *all* **temporary** lighting be directed away from suitable habitat during the active season?

Yes

49. For Indiana bat, if applicable, compensatory mitigation measures are required to offset adverse effects on the species (see Section 2.10 of the BA). Please select the mechanism in which compensatory mitigation will be implemented:

1. Range-wide In Lieu Fee Program, The Conservation Fund

PROJECT QUESTIONNAIRE

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

N/A

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

N/A

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.

1.02

4. Please verify:

All tree removal will occur greater than 0.5 mile from any hibernaculum.

Yes, I verify that all tree removal will occur greater than 0.5 miles from any hibernaculum.

- 5. Is the project location 0-100 feet from the edge of existing road/rail surface? *Yes*
- 6. Is the project location 100-300 feet from the edge of existing road/rail surface?

No

7. Please verify:

No documented Indiana bat roosts or surrounding summer habitat within 0.25 mile of documented roosts will be impacted between May 1 and July 31.

No, this is not the case.

8. Please verify:

No documented NLEB roosts or surrounding summer habitat within 150 feet of documented roosts will be impacted between June 1 and July 31.

Yes, I verify that no documented NLEB roosts or surrounding summer habitat within 150 feet of documented roosts will be impacted during this period.

9. Please describe the proposed bridge work:

The proposed project is anticipated to include a total bridge replacement (Str. #140-70-06039 B / NBI 026970). In addition to the structure replacement activities, the project will include reconstruction of the approach roadway, roadside ditch work, grading, revetment riprap turnouts, and replacement of the guardrails.

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

Fall 2024

11. Please enter the date of the bridge assessment:

BIAS: 11/18/22; Env. Inspection: 7/5/2023

- 12. You have indicated that the following Avoidance and Minimization Measures (AMMs) will be implemented as part of the proposed project:
 - Tree Removal AMM 1
 - Lighting AMM 1
 - Tree Removal AMM 3
 - General AMM 1

AVOIDANCE AND MINIMIZATION MEASURES (AMMS)

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

TREE REMOVAL AMM 1

Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal.

LIGHTING AMM 1

Direct temporary lighting away from suitable habitat during the active season.

TREE REMOVAL AMM 3

Ensure tree removal is limited to that specified in project plans and ensure that contractors understand clearing limits and how they are marked in the field (e.g., install bright colored flagging/fencing prior to any tree clearing to ensure contractors stay within clearing limits).

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.

DETERMINATION KEY DESCRIPTION: FHWA, FRA, FTA PROGRAMMATIC CONSULTATION FOR TRANSPORTATION PROJECTS AFFECTING NLEB OR INDIANA BAT

This key was last updated in IPaC on October 30, 2023. 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 may 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 endangered **northern long-eared bat** (NLEB) (*Myotis septentrionalis*).

This decision key should <u>only</u> be used to verify project applicability with the Service's <u>amended</u> <u>February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion (dated March 23, 2023)</u> 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 <u>not</u> intended to cover all types of transportation actions. Activities outside the scope of the programmatic biological opinion, or that may affect ESAlisted species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.

IPAC USER CONTACT INFORMATION

Agency:Indiana Department of TransportationName:Brigitte MoneymakerAddress:323 Main Street Suite ECity:EvansvilleState:INZip:47708Emailbmoneymaker@kaskaskiaeng.comPhone:6182335877

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration

Bridge/Structure Bat Assessment Form

	<u>te & Time</u> Assessment		<u>DT Project</u> Imber	Route/Facility Carried					<u>County</u>		
	<u>deral</u> ucture ID	_	r <u>ucture Coordinates</u> titude and longitude)		ructure Height oproximate)			<u>Sti</u> Le			
St	ructure Type (check one)			St	ructure Mat	teri	al (check all	th	at apply)		
Br	idge Construction Style			De	eck Material	Be	am Material	Er	nd/Back Wall	Material	
	Cast-in-place		Pre-stressed Girder		Metal		None Concrete		Concrete		
					Concrete Timber		Steel		Timber Stone/Masonry		
	Flat Slab/Box		Steel I-beam		Open grid		Timber		Other:		
	Truss		Covered		Other:		Other:	Сі	reosote Evide	ence	
	Parallel Box Beam		Other:	Сι	ulvert Material	I			No		
Сι	Ilvert Type	O	ther Structure		Metal Concrete			Nc	Unknown otes:		
	Box				Plastic						
	Pipe/Round				Stone/Masonry						
	Other:				Other:						
Cr	ossings Traversed (check all th	at	apply)	Sι	urrounding	Ha	bitat (check	all	I that apply)		
	Bare ground		Open vegetation		Agricultural				Grassland		
	Rip-rap		Closed vegetation		Commercial				Ranching		
	Flowing water		Railroad		Residential-urba	n			Riparian/wetlan Mixed use	d	
	Standing water Seasonal water		Road/trail - Type: Other:		Residential-rural Woodland/forest	ed			Other:		
					woodand/forest	cu			ouldi.		
	reas Assessed (check all that ap				11 I						
	eck all areas that apply. If an area is not						da abata daau		atatian an india	otod	
	cument all bat indicators observed during										
Ar	ea (check if assessed)	A	ssessment Notes	E)	vidence of E	sat	s (include pr	lOt		/	
	All crevices and cracks:		Not present		Visual - live #		dead #		Audible	Species	
	Bridges/culverts: rough surfaces or				Guano		ueau #		Odor Photos	-	
Щ	imperfections in concrete Other structures: soffits, rafters, attic				Staining				1 110103	-	
					3						
-	areas		Not present						Audible	Species	
	Concrete surfaces (open roosting on				Visual - live #		dead #		Odor		
	concrete)				Guano				Photos		
					Staining				I		
	Spaces between concrete end walls		Not present		Visual - live #		dead #		Audible Odor	Species	
Ц	and the bridge deck				Guano	-					
					Staining				Photos		
	Crack between concrete railings on top		Not present						Audible	Species	
	of the bridge deck Gap				Visual - live #		dead #		Odor	_	
, <u> </u>	Railing 📙				Guano				Photos	-	
-			Not present		Staining				Audible	Species	
		-		1	Visual - live #		dead #	⊢	Odor	opeoies	
	Vertical surfaces on concrete I-beams				Guano				Photos]	
					Staining						
			Not present		Viewel live #		dood #	L	Audible	Species	
\Box	Spaces between walls, ceiling joists			-	Visual - live # Guano		dead #		Odor Photos	-	
					Staining				1 10:03	1	
ľ			Not present		v				Audible	Species	
	Weep holes, scupper drains, and				Visual - live #		dead #		Odor		
	inlets/pipes				Guano			Photos			
		_	Not present		Staining				Audible	Species	
		-	nor present		Visual - live #		dead #	⊢	Audible Odor	Species	
Ц	All guiderails				Guano			Photos			
					Staining						
			Not present						Audible	Species	
	All expansion joints			<u> </u>	Visual - live #		dead #	<u> </u>	Odor	4	
	· · ·			-	Guano Staining			Photos			
-				-	Stanning						
Na	ame:			Si	gnature:		Bjita	,	Myte		

Assessment Form



United States Department of the Interior Fish and Wildlife Service

Indiana Field Office (ES) 620 South Walker Street Bloomington, IN 47403-2121 Phone: (812) 334-4261 Fax: (812) 334-4273

December 5, 2023

USFWS Project Code #:2024-0014940

Ms. Karstin Carmany-George Federal Highway Administration 575 N. Pennsylvania Street, Room 254 Indianapolis, Indiana 46204 (Sent via email)

RE: SR 140 over Big Blue River, Bridge Replacement, Henry and Rush Counties, Des. 2002071

Dear Ms. Carmany-George:

The U.S. Fish and Wildlife Service (Service) is responding to your request dated November 13, 2023 to verify that the proposed SR 140 over Big Blue River Bridge Replacement (the Project) may rely on the amended February 5, 2018, Programmatic Biological Opinion (BO) (dated March 23, 2023) for federally funded or approved transportation projects that may affect the federally listed endangered Indiana bat (*Myotis sodalis*) and/or federally listed endangered northern long-eared bat (NLEB) (*Myotis septentrionalis*). We received your request and the associated Likely to Adversely Affect (LAA) Consistency Letter on November 14, 2023.

This letter provides the Service's response as to whether the Federal Highway Administration (FHWA) may rely on the BO to comply with Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) for the Project's effects to the Indiana bat and NLEB.

The FHWA has determined that the Project is *likely to adversely affect* the Indiana bat and/or the NLEB.

Conclusion

The Service has reviewed the effects of the proposed Project, which includes the FHWA's commitment to implement any applicable mitigation measures as indicated on the LAA Consistency Letter. We confirm that the proposed Project's effects are consistent with those analyzed in the BO. The Service has determined that projects consistent with the conservation measures and scope of the program analyzed in the BO are not likely to jeopardize the continued existence of the Indiana bat or the NLEB. In coordination with your agency and the other

sponsoring Federal Transportation Agencies, the Service will reevaluate this conclusion annually in light of any new pertinent information under the adaptive management provisions of the BO.

Incidental Take

Indiana Bat and Northern Long-eared Bat

Tree Removal

The Service anticipates that tree removal associated with the proposed Project will cause incidental take of Indiana bats due to removal within documented Indiana bat habitat. As described in the Incidental Take Statement (ITS) of the BO, quantifying the specific number of individuals affected is not practicable. Therefore, the Services uses a surrogate (acreage of tree removal) to prove a means of expressing and monitoring take of Indiana bats.

The proposed Project will remove **1.02 acre(s)** of trees from habitat that is suitable for the Indiana bat and NLEB and has documented Indiana bat use. All tree removal will occur in winter and comply with all other conservation measures in the BO. Based on the BO, all 1.02 acres of tree removal are anticipated to result in adverse effects to Indiana bats.

The FHWA used the mitigation ratio of 1.75 from Table 3 of the BO¹ to calculate the compensatory mitigation required to offset adverse impacts to the Indiana bat for a total of **1.785** acres² of trees that is suitable for the Indiana bat. **Mitigation is not required for the NLEB.**

To comply with the mitigation requirements of the BO, the FHWA will contribute **\$20,259.75** to The Conservation Fund (TCF), the Program Sponsor, <u>within 1 year of this letter or prior to the start of construction</u>, whichever is earliest. These calculations are based on the mitigation identified above² and the 2023 Land Use Values in Table 2 of Exhibit E in TCF's ILF Instrument³. If payment is made later than 1 year from the date of this letter, the mitigation cost may change as a result of updated land use values in Table 2 of Exhibit E. The FHWA or designated non-federal representative must notify TCF at least five days prior to payment so that TCF can verify that the appropriate land value has been used. At the time of payment, the FHWA or designated non-federal representative shall notify the Service of compliance with the compensatory mitigation requirements as described above.

The purchase of species conservation credits and/or in-lieu fee contributions shall occur prior to construction of a transportation project covered under this programmatic BO. Exceptions to this program stipulation include emergency projects that do not require a letting prior to construction. In these cases, purchase of credits and/or in-lieu fee contributions shall occur within three months of completion of the project. This timeframe allows for measuring the acres of habitat affected by the emergency project and for financial processing.

¹ https://www.fws.gov/media/compensatory-mitigation-ratios-indiana-bat-table-3-biological-opinion

² XX acres * XX ratio

³https://www.fws.gov/sites/default/files/documents/IBAT-NLEB-ILF-Exhibit-E-Fee-Schedule-2023-01-04.pdf

Bridge, Culvert, and/or Structure Activities

The Service estimates that incidental take (IT) of a small number of Indiana bats and/or NLEBs is reasonably certain to occur at up to 10 bridges/culverts or structures range-wide in a 12-month period when signs of bat use or occupancy are observed. This take may be covered under the IT Statement in this programmatic BO. Furthermore, some take may occur if initial bridge/culvert or structure bat assessments failed to detect Indiana bat and/or NLEB use or occupancy, yet bats are later detected prior to, or during construction. If this occurs, please submit the Post Assessment Discovery of Bats at Bridge/Culvert or Structure Form (User Guide Appendix E) to this Service Office within 2 working days of the incident. In these instances, potential incidental take of Indiana bats and/or NLEBs may be exempted provided that the take is reported to the Service.

Tricolored Bat

On September 13, 2022, the Service published a proposal in the Federal Register to list the tricolored bat (Perimyotis subflavus) as endangered under the ESA. The Service has up to 12months from the date the proposal was published to make a final determination, either to list the tricolored bat under the ESA or to withdraw the proposal. The Service determined the bat faces extinction primarily due to the range-wide impacts of white-nose syndrome (WNS), a deadly fungal disease affecting cave-dwelling bats across North America. Because tricolored bat populations have been greatly reduced due to WNS, surviving bat populations are now more vulnerable to other stressors such as human disturbance and habitat loss. Species proposed for listing are not afforded protection under the ESA; however, as soon as a listing becomes effective (typically 30 days after publication of the final rule in the Federal Register), the prohibitions against jeopardizing its continued existence and "take" will apply. Therefore, if this project or other future or existing projects have the potential to adversely affect tricolored bats after the potential new listing goes into effect, we recommend that the effects of the project on tricolored bat and their habitat be analyzed to determine whether authorization under ESA Section 7 is necessary. Projects or programs with an existing Section 7 biological opinion may require reinitiation of consultation.

The tricolored bat is a small insectivorous bat that typically overwinters in caves, abandoned mines and tunnels, and road-associated culverts (southern portion of the range) and spends the rest of the year in forested habitats, typically roosting among live and dead leaf clusters. For more information on tricolored bats and the proposed rule, please see: <u>https://www.fws.gov/species/tricolored-bat-perimyotis-subflavus</u> and for more information on WNS, please see: <u>https://www.whitenosesyndrome.org/</u>

Reasonable and Prudent Measures

The Service will add the acreage of Project-related tree removal to the annual total acreage attributed to the BO as a surrogate measure of Indiana bat and/or NLEB incidental take and exempted from the prohibitions of Section 9 of the ESA. Such exemption is effective as long as your agency implements the reasonable and prudent measure (RPM) and accompanying terms and conditions of the BO's ITS.

The sole RPM of the BO's ITS requires the Federal Transportation Agencies to ensure that State/Local transportation agencies, who choose to include eligible projects under the programmatic action, incorporate all applicable conservation measures in the project proposals submitted to the Service for ESA Section 7 compliance using the BO. The implementing terms and conditions for this RPM require the Federal Transportation Agencies to offer training to appropriate personnel about using the BO, and promptly report sick, injured, or dead bats (regardless of species) or any other federally listed species located at the project site.

Reporting Dead or Injured Bats

The FHWA, its State/Local cooperators, and any contractors must take care when handling dead or injured Indiana bats and NLEBs, or any other federally listed species that are found at the project site to preserve biological material in the best possible condition and to protect the handler from exposure to diseases, such as rabies. Project personnel are responsible for ensuring that any evidence about determining the cause of death or injury is not unnecessarily disturbed. Reporting the discovery of dead or injured listed species is required in all cases to enable the Service to determine whether the level of incidental take exempted by this BO has been exceeded, and to ensure that the terms and conditions are appropriate and effective. Parties finding a dead, injured, or sick specimen of any endangered or threatened species must promptly notify this Service Office.

Reinitiation Notice

This letter concludes consultation for the Project, which qualifies for inclusion in the BO issued to the Federal Transportation Agencies. To maintain this inclusion, a reinitiation of this Project-level consultation is required where the FHWA's discretionary involvement or control over the Project has been retained (or is authorized by law) and if:

- 1. the amount or extent of incidental take of Indiana bats or NLEBs is exceeded;
- 2. new information reveals that the Project may affect listed species or critical habitat in a manner or to an extent not considered in the BO;
- 3. the Project is subsequently modified in a manner that causes an effect to listed species or designated critical habitat not considered in the BO; or
- 4. a new species is listed or critical habitat designated that may be affected by the Project.

Per condition #1 above, the anticipated incidental take is exceeded when:

- the Project removes more than 1.02 acres of documented Indiana bat habitat or tree removal extends beyond 100 feet from the edge of pavement; and/or
- the Project takes more than 5 Indiana bats and/or 5 NLEBs resulting from bridge, culvert, or structure activities⁴.

⁴ Annual reports will be completed each year as described in the *Monitoring* and *Reporting* section of the BO to track the number of projects range-wide where IT of Indiana bat and/or NLEB is reasonably certain to occur from bridge, culvert, or structures activities per annual reporting year.

In instances where the amount or extent of incidental take is exceeded, the FHWA is required to immediately request a reinitiation of this Project-level consultation.

We appreciate your continued efforts to ensure that this Project is fully consistent with all applicable provisions of the BO. If you have any questions regarding our response or if you need additional information, please contact Robin McWilliams Munson at Robin_McWilliams@fws.gov.

Sincerely, ROBIN MCWILLIAMS-MUNSON For Susan E. Cooper Field Office Supervisor



United States Department of the Interior

FISH AND WILDLIFE SERVICE Indiana Ecological Services Field Office 620 South Walker Street Bloomington, IN 47403-2121 Phone: (812) 334-4261 Fax: (812) 334-4273



In Reply Refer To:05/09/2024 14:42:16 UTCProject Code: 2024-0014940Project Name: SR 140 over Big Blue River, Bridge Replacement, DES 2002071

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

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, 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.*).

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 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 IPaC system by completing the same process used to receive the enclosed list.

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.

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at - <u>http://www.fws.gov/midwest/endangered/section7/</u><u>s7process/index.html</u>. This website contains step-by-step instructions which will help you determine if your project will have an adverse effect on listed species and will help lead you through the Section 7 process. For all **wind energy projects** and **projects that include installing towers that use guy wires or are over 200 feet in height**, please contact this field office directly for assistance, even if no federally listed plants, animals or critical habitat are present within your proposed project or may be affected by your proposed project.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/whatwe-do.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of

Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

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 Code 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
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

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:

Indiana Ecological Services Field Office

620 South Walker Street Bloomington, IN 47403-2121 (812) 334-4261

PROJECT SUMMARY

FROJECT 30	
Project Code:	2024-0014940
Project Name:	SR 140 over Big Blue River, Bridge Replacement, DES 2002071
Project Type:	Bridge - Replacement
Project Description:	This project is located on State Route (SR) 140 over Big Blue River,
	approximately 0.68 mile south of US 40 in Rush and Henry Counties,
	Indiana. The proposed project is anticipated to include a total bridge
	replacement (Str. #140-70-06039 B / NBI 026970). In addition to the
	structure replacement activities, the project will include reconstruction of
	the approach roadway, roadside ditch work, grading, revetment riprap
	turnouts, and replacement of the guardrails. There is suitable summer
	habitat within the project area. The removal of 1.02 acres of trees within
	100 feet of the roadway east and west of SR 140 is anticipated during the
	inactive season. The dominant species of the trees to be removed includes
	Norway Maple (Acer platanoides), Sycamore (Platanus occidentalis),
	Eastern Black Walnut (Juglans nigra), and Tree-of-Heaven (Ailanthus
	altissima). INDOT personnel from the Greenfield District stated on May
	19, 2023 that a review of the USFWS database indicated 'there are ten
	documented Indiana Bat capture sites within a half mile of the project
	area'. The BIAS inspection by INDOT on November 18, 2022 did not
	find any evidence indicating bats were seen or heard on the bridge. An
	environmental inspection of the bridge by Kaskaskia Engineering Group,
	LLC on July 5, 2023 did not find evidence indicating bats were seen or
	heard on the bridge. Construction is anticipated to begin in Fall 2024. No
	permanent lighting is anticipated; however, temporary lighting changes
	are possible due to nighttime construction. This project will require
	mitigation under the In-Lieu Fee Program, (1.02 acres x 1.75 x \$11,350) =
	\$20,259.75.
Project Location:	

The approximate location of the project can be viewed in Google Maps: <u>https://</u><u>www.google.com/maps/@39.7862765,-85.52465711478192,14z</u>



Counties: Henry and Rush counties, Indiana

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. Note that 2 of these species should be considered only under certain conditions.

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. <u>NOAA Fisheries</u>, 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
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/5949</u>	Endangered
 Northern Long-eared Bat Myotis septentrionalis No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: This species only needs to be considered if the project includes wind turbine operations. Species profile: https://ecos.fws.gov/ecp/species/9045 	Endangered
 Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: This species only needs to be considered if the project includes wind turbine operations. Species profile: https://ecos.fws.gov/ecp/species/10515 	Proposed Endangered

BIRDS

NAME	STATUS
 Whooping Crane Grus americana Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY) No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/758</u> 	Experimental Population, Non- Essential

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i>	Candidate
No critical habitat has been designated for this species.	
Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>	

CRITICAL HABITATS

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

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the <u>"Supplemental Information on Migratory Birds and Eagles"</u>.

- 1. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 2. The Migratory Birds Treaty Act of 1918.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to <u>Bald Eagle Nesting and Sensitivity to Human Activity</u>

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

 NAME
 BREEDING SEASON

 Bald Eagle Haliaeetus leucocephalus
 Breeds Oct 15 to

 This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention
 Breeds Oct 15 to

 Aug 31
 Aug 31

 types of development or activities.
 https://ecos.fws.gov/ecp/species/1626

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read <u>"Supplemental Information on Migratory Birds and Eagles"</u>, specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (**■**)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (=)

Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort ()

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (-)

				prot	ability o	f presen	ce 📕 bi	reeding s	season	survey	effort	— no data
SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Bald Eagle Non-BCC Vulnerable	•		··		· · · · ·							

A week is marked as having no data if there were no survey events for that week.

Additional information can be found using the following links:

- Eagle Management <u>https://www.fws.gov/program/eagle-management</u>
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/</u> <u>collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/</u> <u>documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/</u> <u>media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-</u> <u>project-action</u>

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the <u>"Supplemental Information on Migratory Birds and Eagles"</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Oct 15 to Aug 31
Chimney Swift Chaetura pelagica This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9406</u>	Breeds Mar 15 to Aug 25
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9398</u>	Breeds May 10 to Sep 10
Wood Thrush <i>Hylocichla mustelina</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9431</u>	Breeds May 10 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read <u>"Supplemental Information on Migratory Birds and Eagles"</u>, specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (=)

Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort ()

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

■ probability of presence breeding season survey effort — no data

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Bald Eagle Non-BCC Vulnerable					••••					1		
Chimney Swift BCC Rangewide (CON)	++-	+-	1		·· • ···•					+		
Red-headed Woodpecker BCC Rangewide (CON)	++-		+	+ +		-				+		
Wood Thrush BCC Rangewide (CON)	++-	+-	+	11	• • • •							

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/</u> <u>collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/</u> <u>documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/</u> <u>media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-</u> <u>project-action</u>

WETLANDS

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u> <u>Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

RIVERINE

R2UBH

IPAC USER CONTACT INFORMATION

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LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Highway Administration