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

Road	No./County:	State Road (SR) 58/Jackson County							
Desig	nation Number(s):	1900321							
Project Descr	ct ription/Termini:	Small structure 7.09 miles eas		vay rehabilitation	on SR 58, approximately				
X	Categorical Exclusion	, Level 2 – Req	uired Signatories: INDOT	DE and/or INDO)T ESD				
	Categorical Exclusion, Level 3 – Required Signatories: INDOT ESD								
	Categorical Exclusion, Level 4 – Required Signatories: INDOT ESD and FHWA								
	Environmental Assess	ment (EA) – Re	equired Signatories: IND	OT ESD and FH\	VA				
	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 and		d Date	INDOT ES	D Signature and Date					
	FHV	VA Signature and	Date						
Releas	se for Public Involvem	nent	INDOT DE Initials and Da	ate	INDOT ESD Initials and Date				
Certifi	cation of Public Invol	vement	INDOT CO	nsultant Services S	signature and Date				
INDOT [DE/ESD Reviewer Signature	e and Date:			.g				

Erin Mulryan, SJCA Inc.

Name and Organization of CE/EA Preparer:

County	Jackson		Route	SR 58		Des. No.	1900321
			Part I – I	Public In	<u>volvement</u>		
Every Feder project deve	ral action requi	res some level of puess. The level of pu	ublic involven Iblic involver	nent, providing nent should l	for early and conting to commensurate	nuous opportu with the pro	unities throughout the cosed action.
	es the project lo, then:	have a historic bridç	ge processed	under the His	toric Bridges PA*?	Yes	No X
1	Opportunity for	a Public Hearing R	lequired?			X	
	earing is require PO, and the AC		dges process	ed under the I	Historic Bridges Prog	grammatic Ag	reement between INDOT,
					ed property owners a rred for this project.	and residents	(i.e. notice of entry),
Notice of E about the	Entry letters we project and tha	ere mailed to potenti	ally affected paible for land	property owne surveying and	rs near the project a		mber 5, 2019, notifying them e area. A sample copy of
Involveme hearing. T	<i>nt Manual</i> which herefore, a leg	ch requires the proje al notice will appear	ect sponsor to r in a local pul	offer the publication conti	diana Department of lic an opportunity to ngent upon the relea requirements are fu	submit comn ase of this do	nent and/or request a public
Discuss pub minimize im	olic controversy pacts.		unity and/or n	atural resourc			g done during the project to
At this time	e, there is no s	ubstantial controver	sy concerning	g impacts to th	ne community or to r	natural resoui	ces.
This is	page 2 of 23	Project name:	SR 58 Sma		eplacement & Road	way Date	: _September 9, 2021

Version: April 2021

County Jackson	Route SR 58	Des. No. 1900321
Part II - Genei	ral Project Identification, De	escription, and Design Information
		<u> </u>
Sponsor of the Project:	INDOT	INDOT District: Seymour
Local Name of the Facility:	SR 58	
Funding Source (m	ark all that apply): Federal X St	ate X Local Other*
*If other is selected	, please indentify the funding source:	
PURPOSE AND NEED:		
	ne specific transportation problem or deficienc project. The solution to the traffic problem sho	y that the project will address. The purpose should describe ould NOT be discussed in this section.
Need: The need for this project is gave the structure a condit abutments. Bank erosion is	due to the poor rating of the existing structure ion rating of 4 of 9 (poor) due to failing headway affecting the roadway. Also, the slab is sagg	e. The August 14, 2019, Culvert Inspection Report by INDOT ralls and sloping abutments with spalls and cracks in the ing down on both ends and there was a one (1) foot scour rout the structure (Appendix I-13 through I-14).
Purpose : The purpose of this project	is to provide a structure with a rating to at lea	st 7 of 9 (good) or better.
PROJECT DESCRIPTION	ON (PREFERRED ALTERNATIVE):	
County: <u>Jackson</u>	Municipality: N	I/A
Limits of Proposed Work:	From approximately 240 feet to the west cleast of the project structure	of the structure, CV 058-036-96.15, to approximately 70 feet
Total Work Length:	0.06 Mile(s) To	tal Work Area: 0.444 Acre(s)
If yes, when did the Acceptability?		ng and Operational Pent must be submitted to the FHWA with a request for
	SR 58 Small Structure Re	placement & Roadway
This is page 3 of 23	Project name: Improvement	Date: September 9, 2021

County Jackson Route SR 58 Des. No. 1900321	
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Describe location of project including township, range, city, county, roads, etc. Existing conditions should include current conditions, current deficiencies, roadway description, surrounding features, etc. Preferred alternative should include the scope of work, anticipated impacts, and how the project will meet the Purpose and Need. Logical termini and independent utility also need discussed.

Location:

This project is located on SR 58, approximately 7.09 miles east of SR 446 in Jackson County, Indiana. Specifically, the project is in Section 14, Township 6 North, Range 2 East in Owen Township, as shown on the Norman 7.5-minute Quadrangle Map. This project will be approximately 0.06 mile in length. Project location graphics are included in Appendix B-1 to B-3.

Existing Conditions:

The existing SR 58 roadway is classified as a Rural Major Collector and consists of two (2) 9-foot-wide travel lanes with 3-foot-wide usable shoulders. The posted speed limit in the project area is 45 miles per hour (mph). The existing structure, CV 058-036-96.15, is a 40-foot-long reinforced concrete box (RCB) structure that is 5.7-foot high and 2.7-foot wide. The existing structure carries an unnamed tributary (UNT) to Tipton Creek under SR 58 from north to south. The structure is at a significant skew with the roadway alignment and is located within a tight horizontal curve within a superelevated pavement section. Guardrails exist on both sides of the structure. The structure is bordered on either side by forested land. Minimal ditching exists on the north side of the roadway through the curve, which has begun to cause erosion and deterioration of the roadway edge near the structure. The August 14, 2019, INDOT Large Culvert Inspection Report gave the structure a rating of 4 of 9 (poor), citing that the headwalls have failed, affecting the active roadway, and the abutments were sloping with spalls and cracks in the abutments. The slab is sagging down on both ends, and there was a one (1) foot scour hole on the north side with sediment throughout the structure. In addition, bank erosion is affecting the active roadway (Appendix I-13 to I-14).

The surrounding area is hilly and heavily wooded. There are no utilities located within the project area.

Preferred Alternative:

The preferred alternative is to replace the existing structure, CV 058-036-96.15, with a seven (7) foot by four (4) foot RCB culvert that is 46 feet in length. Headwalls and wingwalls will be placed at the inlet and outlet of the new structure. The structure will be sumped six (6) inches to allow for a natural channel bottom to develop. Riprap will be placed over geotextile at the inlet and outlet and along the west slope adjacent to the roadway. A paved side ditch approximately 169 linear feet in length and a permanent turf reinforcement mat will be placed on the west side of the roadway to reinforce the roadside ditch and to prevent erosion from undermining of the roadway. The existing guardrails will be replaced throughout the project limits. Full depth hot mix asphalt (HMA) pavement reconstruction will occur at the structure. Travel lanes will remain nine (9) feet wide, with two (2) to three (3) foot paved shoulders and a two (2) to four (4) foot aggregate/ earthen shoulder. The shoulder width will vary due to tightness of the curve and in the roadway where the guardrails are being replaced. Refer to Appendix B-7 to B-13 for project plans.

This alternative meets both the purpose and need of the project by providing a structure with a rating to at least 7 of 9 (good) or better.

Maintenance of Traffic (MOT) is anticipated to be a closure of SR 58 and a detour utilizing SR 135, United States (US) 50, and SR 446, resulting in approximately 23 miles and 40 minutes of additional travel. More details regarding the road closure and detour can be found in the MOT section of this document.

Logical Termini/Independent Utility:

The termini allow for the construction equipment to access the structure for replacement, the placement of riprap and turf along the slopes and at the structure inlet and outlet, and for construction of the paved ditch. The project does not rely on another project to meet its purpose and need. Therefore, the project has logical termini and independent utility.

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.

There were three (3) alternatives, as well as the "do nothing" alternative discussed in the March 27, 2020, Abbreviated Engineering Assessment by USI Consultants and the August 15, 2018, INDOT Hydraulics Memo (Appendix I-6 to I-7 and I-15 to I-17).

83-inch by 57- inch Corrugated Metal Pipe Arch (CMPA) with Square Edge Headwall, Sumped 6 inches

This alternative involves replacing the existing structure with an 83- inch by 57-inch CMPA with a square edge headwall sumped six (6) inches. Revetment riprap would be placed at the outlet for scour protection. The corrugated pipe was determined not to be

		SR 58 Small Structure Replacement & Roadway		
This is page 4 of 23	Project name:	Improvement	Date:	September 9, 2021

County	Jackson		Route	SR 58		Des. No.	1900321	
hydraulica	lly adequate. The	efore, this alterna	tive was dis	missed fror	n further consid	deration.		
This altern	ative involves repolaced at the outle		structure w	rith a 91-inc letermined t	h by 58-inch R	CEP sumped six (6)	inches. Revetment riprap t be hydraulically adequate.	
This altern inches. Re	78-inch Reinforced Concrete Pipe (RCP) Sumped 6 inches This alternative involves replacing the existing structure with a 49-foot-long, seven (7) foot by four (4) foot RCP sumped six (6) inches. Revetment riprap would be placed at the outlet for scour protection. It was determined that this type of structure would not be hydraulically adequate. Therefore, this alternative was dismissed from further consideration.							
This altern deterioration costs in the	Do Nothing Alternative This alternative allows the existing structure to remain in place with no improvements. This alternative will result in continued deterioration of the structure, which could allow development of unsafe travel conditions, roadway failure, and an increase in repair costs in the future. This alternative does not meet the purpose and need of this project. Therefore, it was discarded from consideration.							
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):								
ROADWA	AY CHARACTE	R:						
If the propos	sed action include	s multiple roadwa	ys, complete	e and duplic	cate for each ro	padway.		
Name of R	Roadway	SR 58						
	Classification:	Rural Major ((DD (00.10)	
Current AD) i : ur Volume (DHV):	365 365 T	VPD (202 ruck Percer		sign Year ADT: 5	365 Y	VPD (2043)	
	Speed (mph):		egal Speed	• , ,	45			
_								
Nu	mber of Lanes:	Existing	9 2		Proposed	2		
	pe of Lanes:	asp	halt through	lanes	asphalt	through lanes		
	vement Width:	21	ft.		21 ft.		_	
	oulder Width:	3	ft.		2-4 ft.			
	edian Width: lewalk Width:	N/A N/A	ft.		N/A ft.			
_ Oic	iewaik Widtii.	IN/A	11.		IN/A II.			
	tting: pography:	Urban Level			Suburban Rolling	X Rural	r	
			SR 58 Sma	all Structure	Replacement 6	& Roadwav		
This is	page 5 of 23 P	roject name:	Improveme			Date	e: September 9, 2021	

			IIIUIAII	a Depa	ırtımem	OI ITAII	sportatio	11		
County	Jackson			Route	SR 58		_	Des. No.	190032	1
BRIDGES	S AND/OR SI	MALL STRU	CTURE((S):						
If the propos	sed action inclu	des multiple s	structures	. complet	e and dupl	icate for ea	ch bridge and	d/or small st	ructure. I	nclude both
	proposed bridg						on anago and			
Structure/N	IBI Number(s):	CV 058	-036-96.1	5		Sufficie	ency Rating:	N/A (Ratin	ıg, Source	e of Information)
			Eviatina			Dranasa	J			
Brid	dge/Structure T		Existing 40 foot	long, 5.7-	foot by	Proposed	ng, seven 7-f	oot by 4-		
	age/Offactare 1	урс.		7-foot RC		40 1001 10	foot RCB	00t by 4 -		
Nui	mber of Spans:	:		1			1			
	ight Restriction		N/A	ton		N/A	ton			
	ght Restriction		N/A	ft.		N/A	ft.			
	rb to Curb Widt		N/A	ft.		N/A	ft.			
	tside to Outside	e Width:	N/A	ft.		N/A	ft.			
Sno	oulder Width:		N/A	ft.		N/A	ft.			
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 structure, CV 058-036-96.15, is a 40-foot-long, 5.7-foot by 2.7-foot RCB that carries an UNT to Tipton Creek under SR 58 from north to south. The structure is at a significant skew from the roadway, located within a tight horizontal curve, and is within a superelevated pavement section. The project proposes to replace the existing structure with a seven (7) foot by four (4) foot RCB with a length of 46 feet, sumped six (6) inches, with headwalls, wingwalls, and riprap at the inlet and outlet. No other bridges or small structures are within the project area.										
MAINTEN	IANCE OF TR	DAEEIC (MC	T) DI ID	ING COI	NETDIIC:	TION:				
WAINTEN	IANCE OF TR	XAFFIC (IVIC	אטע (וע	ING COI	NOTRUC	TION.				
Is a Wil Wil Is t	a temporary brid a temporary roa I the project inv Provisions will Provisions will I the proposed here substantia	adway proposition of the made for a be made for the made to a mode to a mode to a mode to a controversy	ed? of a detou access by hrough-tra ccommod ntially chain	local traf affic depe late any longe the e ed with the	fic and so endent bus ocal specia nvironmen e proposed	posted. inesses. al events or tal consequ d method fo	festivals. lences of the or MOT?	action?	Yes X X X X	No X X X
measures sl	hould be quanti	ified to the ex	tent possi	ible, partid	cularly with	respect to	properties su			nese temporary sources and
MOT is anticipated to be a short-term closure of SR 58 due to the narrow and heavily wooded corridor at the project location. The detour route will utilize SR 135, US 50, and SR 446, and will add approximately 23 miles and 40 minutes of travel. Signs will be used in advance of the project location to limit traffic flow near the project site. Barricades will be placed at the project location indicating the hard closure. Access for local businesses and residences will be maintained throughout construction. See Appendix B-10 for detailed MOT plans. The closures/lane restrictions will pose a temporary inconvenience to traveling motorists (including school buses and emergency										
services); h		gnificant delay	s are ant	icipated, a	and all inco					on. Delays may
This is	page 6 of 23	Project nam		R 58 Sma nproveme		e Replacem	ent & Roadw	<i>r</i> ay Date	: Septe	ember 9, 2021

County	Jackson	Route _	SR 58		Des. No	1900321		
ESTIMATED PROJECT COST AND SCHEDULE:								
Engineerin	g: \$ <u>375,000</u> (2020)	Right-of-Way:	\$ <u>50,000</u>	(2022)	Construction:	\$ <u>593,006</u>	(2024)	
Anticipated Start Date of Construction:		July 2022			_			

RIGHT OF WAY:

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	Amount (acres)		
Land Use Impacts	Permanent	Temporary	
Residential	0	0	
Commercial	0	0	
Agricultural	0	0	
Forest	0.63	0	
Wetlands	0	0	
Other:	0	0	
Other:	0	0	
TOTAL	0.63	0	

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.

Existing ROW limits are approximately 10.5 feet from the center line of pavement in each direction of travel throughout the project area. Proposed ROW limits will vary from 60 feet to 40 feet from the edge of pavement to the north of SR 28 and vary from 31 feet to 50 feet from the edge of pavement to the south of SR 28 (Appendix B-11).

The project requires approximately 0.63 acre of permanent ROW. ROW will be acquired from the north side of the roadway to allow for access to the structure, riprap placement, the paved ditch, and guardrail replacement; and acquired from the south of the structure to allow access to the structure, riprap placement, and guardrail replacement.

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

Project name: SR 58 Small Structure Replacement & Roadway
Improvement Date: September 9, 2021

County	Jackson	Route	SR 58	Des. No.	1900321
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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.

An early coordination letter was sent to regulatory agencies on December 31, 2020, June 4, 2021, and June 9, 2021. All early coordination documentation can be found in Appendix C.

Agency	Date Sent	Response Date	Appendix C- page
US Fish and Wildlife Service (USFWS)	December 31, 2020	January 27, 2021	C-14
Indiana Geological and Water Survey (IGWS)	December 31, 2020	December 31, 2020	C-4
(Automated response letter)			
Indiana Department of Environmental Management (IDEM) (Automated response letter)	December 31, 2020	December 31, 2020	C-7
Midwest Regional Office Nation Park Service (NPS)	December 31, 2020	No Response Received	-
Indiana Department of Natural Resources (IDNR)	December 31, 2020	January 29, 2021	C-16
US Army Corps of Engineers Louisville District (USACE)	December 31, 2020	No Response Received	-
Federal Highway Administration (FHWA)	December 31, 2020	No Response Received	-
US Department of Housing and Urban Development (HUD)	December 31, 2020	No Response Received	-
INDOT Seymour District	December 31, 2020	No Response Received	-
Jackson County Commissioner	December 31, 2020	No Response Received	-
Jackson County Highway Department	December 31, 2020	No Response Received	-
Hoosier National Forest	December 31, 2020	No Response Received	-
INDOT Project Manager- Terry Summers	December 31, 2020	No Response Received	-
IDEM Groundwater Section	June 4, 2021	June 9, 2021	C-19
(Source Water Owner Contact)	June 9, 2021	June 9, 2021	C-20
(Source Water Owner Contact)	June 9, 2021	June 9, 2021	C-21

Specific agency responses and recommendations are included in the corresponding sections of this document. All applicable recommendations are included in the Environmental Commitments section of this Categorical Exclusion (CE) document.

SR 58 Small Structure Replacement & Roadway
This is page 8 of 23 Project name:

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Improvement
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	Indiana Department of Transportation						
County Jacks	on	Route	SR 58	Des. No. <u>1900321</u>			
SECTION B - E	COLOGICAL RE	SOURCES:					
Streams, Rivers, Watercourses & Other Jurisdictional Features Federal Wild and Scenic Rivers State Natural, Scenic or Recreational Rivers Nationwide Rivers Inventory (NRI) listed Outstanding Rivers List for Indiana Navigable Waterways Total stream(s) in project area: Linear feet Linear feet Linear feet Total impacted X X X X III III III III III							
Stream Name	Classification	Total Size in Project Area (linear feet)	Impacted linear feet	Comments (i.e. location, flow direction, likely Water of the US, appendix reference)			
UNT 1 to Tipton Creek	Intermittent	370	155 linear feet of permanent impacts 50 linear feet of temporary impacts	Flows east and then northeast under SR 58 within the investigated area, then northeast of the project toward Tipton Creek. UNT 1 to Tipton Creek is likely a Waters of the U.S. (Appendix F-4 to F-5).			
UNT 2 to Tipton Creek	Flows northwest to connect to UNT 1 to Tipton Creek. UNT 2 to Tipton Creek is not likely a Waters of the U.S.						
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 subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.							
Based on a desktop review, the aerial map of the project area (Appendix B-3), and the red flag investigation (RFI) report (Appendix E-2), there are five (5) streams within the 0.5-mile search radius and no streams within the project area. That number was updated to seven (7) total streams in the 0.5-mile search radius; two additional (2) stream segments were found to be in the project area during							

a site visit by SJCA Inc. on August 26, 2020. The stream segments that were identified are not included as water features on the US

Geological Survey (USGS) topography map (Appendix F-10) or the National Wetlands Inventory (NWI) map (Appendix F-13) within

the investigated area. There are five (5) IDEM 303d listed stream segments located within 0.5 mile of the project area. The nearest segment is 0.10 mile northeast of the project area. A Waters of the U.S. Determination / Wetland Delineation Report was approved by INDOT Ecology and Waterway Permitting Office (EWPO) on January 8, 2021. Please refer to Appendix F for the Waters of the U.S. Determination / Wetland Delineation Report. It was determined that UNT 1 to Tipton Creek is likely a jurisdictional waterway and UNT 2 to Tipton Creek is likely not a jurisdictional

waterway. The USACE makes all final determinations regarding jurisdiction.

There are no Federal, Wild and Scenic Rivers; State Natural, Scenic, and Recreational Rivers; Outstanding Rivers for Indiana; navigable waterways or National Rivers Inventory waterways present in the project area. Sections of the East Fork of the White River and the Muscatatuck River are listed as Navigable on the IDNR website, https://www.in.gov/nrc/2392.htm, in Jackson County. However, these sections are not located within or adjacent to the project area. Therefore, no impacts are expected.

UNT 1 to Tipton Creek is an intermittent stream throughout the investigated area. The upstream drainage area of UNT 1 to Tipton Creek is 0.036 square miles from where it crosses under SR 58. Approximately 370 linear feet of this tributary is within the investigated area. The stream measurements were taken outside the influence of the structure. The stream has a bank full width of approximately seven (7) feet and is characterized by silt substrate on the south side of SR 58 and riprap substrate on the north side

		SR 58 Small Structure Replacement & Roadway		
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Jackson	_ Route	SR 58	_	Des. No.	1900321
neavy in-stream cover a complexes. The quality nuosity, high in-stream o and surrounding hills. The ceventually connects to ork White River is a nav	and vegetation but show of the stream is rated a cover, and intermittent he stream flows northed East Fork White River rigable waterway and ju	ws characteristics of average due to the to flow conditions. UN east under SR 58, and r. East Fork White Fourisdictional under t	f flow. The str o the lack of T 1 to Tipton nd then even River is appro he USACE. [ream has mod riffles/runs, m Creek receive tually northea ximately 14 m Due to the pre	derate sinuosity and contains oderate floodplain habitat, es drainage from the runoff st towards Tipton Creek. hiles southwest of the projec
O4 square miles, from wated area. The stream mately five (5) feet and is eet wide and approximate stream is rated poor dons. UNT 2 to Tipton CreNT 1 to Tipton Creek. The miles southwest of the stream is southwest of the miles of the stream is rated poor dons. UNT 2 to Tipton Creek. The miles southwest of the stream is sufficient to the miles southwest of the stream is the stream in the stream in the stream is the stream in the stream is the stream in the strea	where it connects to UN neasurements were take characterized by silt sure tely two (2) inches decue to the to the lack of each receives drainage fripton Creek eventually the project area. UNT	T 1 to Tipton Creek ten outside the influid by trate and rock, we p. The stream has riffles/runs, low floof from the runoff from the connects to East F 2 to Tipton Creek in the result of the connects to East F 2 to Tipton Creek in the runoff treek in the result of the transfer of the t	. Approximatence of the softh no flow at no sinuosity dplain habita the surrouncork White Risnot likely a	ely 100 linear tructure. The state time of in and contains at, low in-streating hills. The ver. East Fork jurisdictional	feet of this tributary is withir stream has a bank full width vestigation, and an OHWM no riffle/run complexes. The m cover, and ephemeral stream flows northwest to white River is water feature because it
nt of riprap. Approximat for the placement of rip or replacement and to m	ely 50 linear feet (0.01 orap. Total stream impa leet the purpose and n	acre) of UNT 1 to 1 act avoidance is not	ipton Creek practicable b	will be tempor because acces	rarily impacted by accessing ss to the structure is
ations regarding the plant of used, maintaining cleating by June 30 without prior of treams, and seeding a stomated response lette to vegetation and trees -7 to C-13). USFWS rese project limits, for the ressary to replace the st	cement and types of staring of trees and brush r IDNR approval, imple nd protecting bank slor gave recommendatio overhanging water booksponded on January 27 new structure to provide ructure, to minimize the	ructures, maintaining to areas within promenting proper eropes upon project cons for obtaining applies to that which is 7, 2021, with standale natural habitat to be use of riprap, and	ng natural stre bject limits, re sion control r mpletion (Ap propriate wate absolutely ne and recomment the aquatic co to avoid worl	eam flow conc stricting work neasures, limi pendix C-16 to erway permits ecessary to condations to no ommunity, to it k in the strean	ditions, the placement and in the stream channel from iting excavation in the low to C-18). IDEM's December and suggested limiting the complete the project of clear trees and vegetation restrict channel work to that in channel during fish
torm Water Manageme	nt Facilities	<u>Pr</u>	esence	Impact Yes I	<u>s</u> No
	th low flow at the time of the low place in the low flow at the time of the low place. The quality place is an expensive to the low place is an expensive the low place is an expensive the low place is an expensive to the low place is an expensive the low	And the low flow at the time of investigation, and an leavy in-stream cover and vegetation but show complexes. The quality of the stream is rated a luosity, high in-stream cover, and intermittent and surrounding hills. The stream flows norther the eventually connects to East Fork White River ork White River is a navigable waterway and junctivity to the East Fork White River, UNT 1 ton Creek is an ephemeral stream throughout of square miles, from where it connects to UN ted area. The stream measurements were taked five (5) feet and is characterized by silt suffer wide and approximately two (2) inches dear stream is rated poor due to the to the lack of the stream is rated poor due to the tothe lack of the stream is rated poor due to the tothe lack of the stream is rated poor due to the project area. UNT (2) to Tipton Creek receives drainage in the lack of the project area. UNT (3) the project area. UNT (4) the miles southwest of the project area. UNT (5) to tall linear feet (0.02 acre) of UNT 1 to the first of riprap. Approximately 50 linear feet (0.01 for the placement of riprap. Total stream impair replacement and to meet the purpose and in Mitigation is not anticipated. In a summary of trees and brust of the project limits were sent to agencies on Decempations regarding the placement and types of stonated response letter gave recommendation to vegetation and trees overhanging water both to the community of the project limits, for the new structure to provide the sacon (Appendix C-14 to C-15). All applicable in the water feature (5) esservoirs askes	How flow at the time of investigation, and an OHWM of six (6) fer the average of the complexes. The quality of the stream is rated average due to the stream is rated average due to the stream stream cover and vegetation but shows characteristics of complexes. The quality of the stream is rated average due to the stream stream stream the conditions. UN and surrounding hills. The stream flows northeast under SR 58, and surrounding hills. The stream flows northeast under SR 58, and surrounding hills. The stream flows northeast under SR 58, are eventually connects to East Fork White River. East Fork White Rork White River is a navigable waterway and jurisdictional under the nectivity to the East Fork White River, UNT 1 to Tipton Creek is listen Creek is an ephemeral stream throughout the investigated and square miles, from where it connects to UNT 1 to Tipton Creek ted area. The stream measurements were taken outside the influrately five (5) feet and is characterized by silt substrate and rock, we set wide and approximately two (2) inches deep. The stream has stream is rated poor due to the to the lack of riffles/runs, low flooms. UNT 2 to Tipton Creek receives drainage from the runoff from NT 1 to Tipton Creek. Tipton Creek eventually connects to East Fly 14 miles southwest of the project area. UNT 2 to Tipton Creek is meral flow conditions. INDOT asks that USACE take jurisdiction mitigation. By 155 total linear feet (0.02 acre) of UNT 1 to Tipton Creek will be not of riprap. Approximately 50 linear feet (0.01 acre) of UNT 1 to Tipton Creek will be not of riprap. Approximately 50 linear feet (0.01 acre) of UNT 1 to Tipton Creek will be not of riprap. Approximately 50 linear feet (0.01 acre) of UNT 1 to Tipton Creek will be not of riprap. Approximately 50 linear feet (0.01 acre) of UNT 1 to Tipton Creek will be not of riprap. Approximately 50 linear feet form impact avoidance is not or replacement of riprap. Total stream impact avoidance is not or replacement of proper for streams, and seeding and protecting bank	h low flow at the time of investigation, and an OHWM of six (6) feet wide and a leavy in-stream cover and vegetation but shows characteristics of flow. The stream process. The quality of the stream is rated average due to the to the lack of and surrounding hills. The stream flows northeast under SR 58, and then even is eventually connects to East Fork White River. East Fork White River is a papro fork White River is a navigable waterway and jurisdictional under the USACE. In nectivity to the East Fork White River, UNT 1 to Tipton Creek is likely a Water of the control o	he low flow at the time of investigation, and an OHWM of six (6) feet wide and approximately beavy in-stream cover and vegetation but shows characteristics of flow. The stream has moc complexes. The quality of the stream is rated average due to the to the lack of riffles/runs, muosity, high in-stream cover, and intermittent flow conditions. UNT 1 to Tipton Creek receive and surrounding hills. The stream flows northeast under SR 58, and then eventually northed at eventually connects to East Fork White River. East Fork White River is approximately 14 m ork White River is a navigable waterway and jurisdictional under the USACE. Due to the pre nectivity to the East Fork White River, UNT 1 to Tipton Creek is likely a Waters of the U.S. ton Creek is an ephemeral stream throughout the investigated area. The upstream drainage of square miles, from where it connects to UNT 1 to Tipton Creek. Approximately 100 linear ted area. The stream measurements were taken outside the influence of the structure. The teld square miles, from where it connects to UNT 1 to Tipton Creek. Approximately 100 linear ted area. The stream measurements were taken outside the influence of the structure. The teld spifue (5) feet and is characterized by silt substrate and rock, with no flow at the time of ineet wide and approximately two (2) inches deep. The stream has no sinuosity and contains stream is rated poor due to the to the lack of riffles/runs, low floodplain habitat, low in-streams. UNT 2 to Tipton Creek. Tipton Creek eventually connects to East Fork White River. East Fork by 14 miles southwest of the project area. UNT 2 to Tipton Creek is not likely a jurisdiction emeral flow conditions. INDOT asks that USACE take jurisdiction over this feature since imprilitigation. by 155 total linear feet (0.02 acre) of UNT 1 to Tipton Creek will be permanently impacted by the for irprap. Approximately 50 linear feet (0.01 acre) of UNT 1 to Tipton Creek will be permanently impacted by 155 total linear feet (0.02 acre) of UNT 1 to Tipton Creek will

Improvement

This is page 10 of 23 Project name:

SR 58 Small Structure Replacement & Roadway

Date: September 9, 2021

County Jac	kson	Ro	oute SR	58		Des	s. No.	1900321
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 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-3), and the RFI report (Appendix E-2) there are four (4) lakes within the 0.5-mile search radius. No open water features were reported within or adjacent to the project area, which was confirmed by the site investigation by SJCA Inc. on August 26, 2020.								
to Appendix F for		e U.S. Determinat						nuary 8, 2021. Please refer that no open water features
Wetland	ds				<u> </u>	Presence X	Y	Impacts 'es No X
T		0.07	A ()	.				0.007 rmanent); 0.005
Total wetland a	ea: on has not been m	0.07	_ Acre(s)		wetland area i	•		emporary) Acre(s)
								· ·
Wetland No.	Classification	Total Size (Acres)	Impacted		Comments (reference)	i.e. location	, likely V	Vater of the US, appendix
1	forested	0.07	0.007 acre permanen impacts 0.005 acre temporary impacts	nt e of	poor in quali	ity. Wetland	1 is like	1 to Tipton Creek and is ly jurisdictional due to the Creek (Appendix F-5).
Watland	la (Mark all that an	nt d	<u>Do</u>	cument	ation		ESD A	oproval Dates
Wetla	ls (<i>Mark all that ap</i> and Determination and Delineation	(piy)		X]		ıary 8, 2 ıary 8, 2	
	CE Isolated Waters	Determination			<u> </u>	Janu	iai y 0, 2	30Z I
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 subject to federal or state jurisdiction. Discuss measures to avoid, minimize, and mitigate if impacts will occur.								
								endix E-2) there are 11 on August 26, 2020, by
A Waters of the	U.S. Determination	n / Wetland Delind	eation Repo	ort was a	approved by IN	NDOT EWPO	O on Jaı	nuary 8, 2021. Please refer
This is nage	11 of 23 Projec		8 Small Stru	ıcture R	eplacement &	Roadway	Date	September 9, 2021

County	Jackson	Route	SR 58		Des. No.	1900321
	ix F for the <i>Waters of the U.S. Detern</i> thin the project area. The USACE ma					that one (1) wetland is
(Impatiens vegetation met. Wetla	is located within the streambanks of capensis), and ladyfern (Athyrium fi, hydric soil, and wetland hydrology und 1 is a forested wetland of poor quictional due to its connectivity to UN	<i>lix-femina</i>) were prese uality, with	, and sugar map nt at the sample approximately 0	ole (<i>Acer saccharui</i> e point (Appendix F	<i>m</i>) in the tree ⁻ -5); therefore	stratum. Hydrophytic , the wetland criteria were
Approxima wetland im and need of project are Mitigation is	Intely 0.007 acre of Wetland 1 will be particly 0.005 acre of Wetland 1 will be apact avoidance is not practicable be of the project. Avoidance would potentially require the rais not anticipated. Wetland boundarienmental Commitments section of this	temporarily cause accontially requember and the moval of seconds of seconds and the moval of seconds are seconds.	impacted for a ess to the struct ire unique engir additional terres narked as "Do N	ccess to the structoure is necessary for neering due to the trial habitat. A USA	ure and the plor replacemer hilly terrain ar ACE 401/404	acement of riprap. Total at and to meet the purpose and steep slopes in the RGP is anticipated.
permit reco	dination letters were sent to agencie ommendations for construction in we wetlands were received. All applicate	tlands (Ap	pendix C-7 to C	-13). No other reco	mmendations	from agencies regarding
				<u>Presence</u>	<u>Impac</u>	:ts
Tei	rrestrial Habitat			X	Yes X	No
Total terres	strial habitat in project area:	0.444	Acre(s)	Total tree clea	ring:	0.27 Acre(s)
or not impac	oes of terrestrial habitat (i.e. forested ots will occur to habitat identified. Inc avoid, minimize, and mitigate if impa	clude total	terrestrial habita			
Based on a project are American b species co	a desktop review, a site visit on Augua consists primarily of mature trees a beech (Fagus grandifolia), Sugar mainsists of Ladyfern (Athyrium filix-femam (Dioscorea villosa).	ust 26, 202 and plants ple (<i>Acer</i> s	0, by SJCA Inc, commonly foun saccharum), and	d along wooded ro I Shellbark hickory	adsides. Tree (<i>Carya lacini</i>	e species consists of osa). Herbaceous plant
improveme replaceme	red alternative will require approxima ent of the roadway. Approximately 0. nt and installation of riprap, the prop e not practicable because it would no	27 acre of osed pave	tree removal is ditch, and the	anticipated for accinstallation of a tur	ess to the stru f reinforceme	ucture for removal and nt mat. Avoidance of
automated necessary 27, 2021, v responded revegetatir	oordination letter was sent to agencie response dated December 31, 2020 and provided permit recommendatio with recommendations regarding tree on January 29, 2021, with recommend ag disturbed soils with native species C-16 to C-18). All applicable recommender), recommons for land e removal a endations re after cons	ended limiting vo I disturbance (A and stabilizing d egarding replac struction, and de	egetation and tree ppendix C-7 to C-1 isturbed soils (App ement of non-wetla eveloping a mitigati	removal to the 13). The USFN pendix C-14 to and tree replation plan for ur	at which is absolutely WS responded on January C-15). The IDNR cement, stabilizing and havoidable habitat impacts
This is		SR 58 Sma	•	placement & Roady	way Date:	September 9, 2021

County	Jackson	Route	SR 58	De	es. No.	1900321
	rotected Species ederally Listed Bats Information for Planning and Consult Section 7 informal consultation comp Section 7 formal consultation Biologic	leted (IPa	cannot b	e completed) required	Yes	No X X
D	etermination Received for Listed Bats	from USFV	VS:	NE NLAA	X	LAA
0	ther Species not included in IPaC Additional federal species found in projection (not bird) found in projection (not bird).				Yes	No X X
	igratory Birds Known usage or presence of birds (i. State bird species based upon coord	ination with			Yes	No X X
	NR coordination and species identified rthern long-eared bat impacts. Discus					
Based on Jackson I Wildlife (I was chec	nd the determination that was received a desktop review and the RFI report (Endangered, Threatened and Rare (EDFW) early coordination response letteked and no plant or animal species list ject vicinity.	Appendix I FR) Specie r dated Ja	E-8 to E-10 s List has nuary 29, 2	b), completed by SJCA Inc. been checked. According 2021 (Appendix C-16), the	on Februa to the IDN Natural He	ary 17, 2021, the IDNR R Division of Fish and critage Program's Database
species li sodalis) a	formation was submitted through the L st was generated (Appendix C-35 to C and the federally threatened northern lo adjacent to the project area other than	-40). The ong-eared	project is v bat (NLEB)	vithin range of the federally (<i>Myotis septentrionalis</i>). I	endanger	ed Indiana bat (<i>Myotis</i>
dated Ma (FTA), an project was reviewed response Avoidance documen USFWS I	ct qualifies for the Range-wide Prograry 2016 (revised February 2018), betwee USFWS. An effect determination keas found to "may affect, but not likely to and verified the effect finding on February received from USFWS within the e and Mitigation Measures (AMMs) are to these include the restrictions on the enterim Policy for the Review of Highwall ludes the need for further consultation. If new information on endangered splant for consultation.	een FHWA y was com o adversely uary 16, 20 14-day rev e included use of ten ay Transpo on this pro	, Federal F pleted on y affect" the 121 and rec view period as firm cor nporary ligh rtation Pro oject as rec	Railroad Administration (FR February 16, 2021, and bate Indiana bat and/or the NL quested USFWS's review of the reference of the Environmenting and tree removal. The jects in Indiana" (found at juired under Section 7 of the	A), Federa sed on the LEB (Appe of the findir ed they con ental Com exproject fa https://www.	al Transit Administration responses provided, the ndix C-23 to C-32). INDOT g (Appendix C-22). No neur with the finding. mitments section of this lls under the "2013 v.in.gov/indot/2523.htm).
	eological and Mineral Resources Project located within the Potential K Karst features identified within or adje Oil/gas or exploration/abandoned we ate Karst Study/Report reviewed by IN	acent to the	e project a d in the pro	rea oject area	Yes	No X X X
This is		R 58 Sma nprovemei		Replacement & Roadway	Date:	September 9, 2021

		-		-	
County	Jackson	Route	SR 58	Des. No.	1900321
area (from F were identifi	roject is located in Potential RFI). Discuss response rece led and if impacts will occur. was completed and results.	eived from IGWS co Describe if any im	ordination. Discuss if pacts will occur to any	any mines, oil/gas, or ex karst features. Include	ploration/abandoned wells discussion of karst
Memorand 2), there at 2020, the I no geologic resources because the	a desktop review, the project lum of Understanding (MOU re no karst features identifie GWS did not indicate that k cal hazards documented in or active or abandoned min- nere are no bedrock resource ated with the designer on Fe). According to the lod within or adjacent arst features exist in the area, there is a lead resources extraction sites with the area.	JSGS topographic ma to the project area. In the project area (App high potential for bedra ction sites documente thin or adjacent to the	to in Appendix B-2 and the early coordination recendix C-4 to C-6). The lock resources, and thered in the area. The feature project area. The response	ne RFI report (Appendix E- esponse on December 31, GWS stated that there are are no sand or gravel es will not be affected
SECTION	C – OTHER RESOURC	ES			
	nking Water Resources Wellhead Protection Area(s Source Water Protection Ar Water Well(s) Urbanized Area Boundary Public Water System(s)	,		Sence Imp Yes X	No X
Check the a	he project located in the St. If Yes, is the FHWA/EPA St. If Yes, is a Groundwater As ppropriate boxes and discust responses and any mitigati	SA MOU Applicable sessment Required as each topic below.	? ? Provide details abou		No X e resource-specific
Sole Sour	ce Aquifer				
designated	t is located in Jackson Cour I sole source aquifer in the s DU is not applicable to this p	state of Indiana. The	erefore, the FHWA/Env	vironmental Protection A	
The Indian (http://www a Wellhead Section on Salt Creek Bloomingto (Appendix	Protection and Source Wa a Department of Environme v.in.gov/idem/cleanwater/pa d Protection Area but is loca June 4, 2021, to request co Services, Inc. and the City on Water Quality Coordinato C-20). Bynum Fanyo Utilitie nave any facilities in the area	ntal Management's ges/wellhead/) was ted within a Source ontact information foof Bloomington Utili'r responded on Juns, Inc. responded o	accessed on June 4, 2 Water Area. An early r the Source Water Arties was received on Jule 9, 2021, stating that n June 9, 2021, stating	2021, by SJCA Inc. This coordination letter was sea and a response with une 9, 2021 (Appendix 0 the entity had no common that none of its clients,	the contract information for C-19). The City of ents regarding the project including Salt Creek
	lls a Department of Natural Re on June 4, 2021, by SJCA Ir				
Based on a	ea Boundary a desktop review of the IND not located in an Urban Area				on January 22, 2021, this
		CD F0 C	Il Structuro Donlace	ont & Boodway	
This is	page 14 of 23 Project na		ll Structure Replacement	eni & Roadway Date	: _September 9, 2021

County	Jackson	Route	SR 58	D	es. No.	1900321
Based on		a site visit on August 26, 202 ed. Therefore, no impacts ar		and the project plan	s (Append	ix B-7 to B-13), there are no
If a Le Use the IDN according to during desig	Longitudinal encr Transverse encro Homes located in applicable, indicate evel 1	rachment floodplain within 1000' up/do e the Floodplain Level? Level 2 Level mation Portal to help determing system. If encroachment on stency with the local flood plain	3 L ne potential impact a flood plain will on n planning.	evel 4 ets. Include floodplate with	Yes	appendix. Discuss impacts
(http://dnrr regulatory	maps.dnr.in.gov/ap floodplain as dete	Natural Resources Indiana Floopsphp/fdms/) was accessed rmined from approved IDNR ration of 23 CFR 650, 23 CFR	on January 22, 20 floodplain maps (021, by SJCA Inc. T Appendix F-11). The	erefore, it	
7			006*) <u>N/</u>	Presence A	Y	Impacts 'es No
* Discuss exi considered.	Agricultural Lands Prime Farmland (Total Points (from Plf 160 or greater, see string farmland res	per NRCS) Section VII of CPA-106/AD-1 e CE Manual for guidance. ources in the project area, im	pacts that will occ	A ur to farmland, and	mitigation	and minimization measures
Discuss exiconsidered. Based on there is no project are	Agricultural Lands Prime Farmland (Total Points (from 160 or greater, see 15ting farmland research) a desktop review, o land that meets to	per NRCS) Section VII of CPA-106/AD-1 e CE Manual for guidance. ources in the project area, imparts a site visit on August 26, 202 he definition of farmland under a consists of heavily forested	pacts that will occ 0, by SJCA Inc., a or the Farmland Pi	ur to farmland, and and the aerial map or otection Policy Act	mitigation of the proje	and minimization measures ect area (Appendix B-3), ithin or adjacent to the
Discuss exiconsidered. Based on there is no project are	Agricultural Lands Prime Farmland (Total Points (from If 160 or greater, see String farmland res a desktop review, b land that meets thea. The project are	per NRCS) Section VII of CPA-106/AD-1 e CE Manual for guidance. ources in the project area, imparts a site visit on August 26, 202 he definition of farmland under a consists of heavily forested	pacts that will occ 0, by SJCA Inc., a or the Farmland Pi	ur to farmland, and and the aerial map or otection Policy Act	mitigation of the proje	and minimization measures ect area (Appendix B-3), ithin or adjacent to the

This is page 15 of 23 Project name: Improvement

Date: September 9, 2021

County Jackson Route SR 58 Des. No. 1900321	
SECTION D – CULTURAL RESOURCES	_
Category(ies) and Type(s) Minor Projects PA Category B, Type 9 INDOT Approval Date(s) February 3, 2021	
Full 106 Effect Finding No Historic Properties Affected No Adverse Effect Adverse Effect	
Eligible and/or Listed Resources Present NRHP Building/Site/District(s) Archaeology NRHP Bridge(s)	
Documentation Prepared (mark all that apply) APE, Eligibility and Effect Determination 800.11 Documentation Historic Properties Report or Short Report Archaeological Records Check and Assessment Archaeological Phase la Survey Report Archaeological Phase lc Survey Report Other: SHPO Approval Date(s)	
MOA Signature Dates (List all signatories) Memorandum of Agreement (MOA)	
If the project falls under the MPPA, describe the category(ies) that the project falls under and any approval dates. If the project requires full Section 106, use the headings provided. The completion of the Section 106 process requires that a Legal Notice be published in local newspapers. Please indicate the publication date, name of the paper(s) and the comment period deadline. Include any further Section 106 work which must be completed at a later date, such as mitigation from a MOA or avoidance commitments.	}
On February 3, 2021, the INDOT Cultural Resource Office (CRO) determined that this project falls within the guidelines of Category B, Type 9 under the Minor Projects Programmatic Agreement (MPPA; Appendix D-1). Category B, Type 9 projects consist of the installation, replacement, repair, lining, or extension of culverts and other drainage structures. A Phase 1a Archaeological Literature Review and Reconnaissance Survey was completed (Jackson 2021). No archaeological sites are located within the project area and no further work was recommended (Appendix D-5). No further consultation is required. This completes the Section 106 process and the responsibilities of the FHWA under Section 106 have been fulfilled.	
SR 58 Small Structure Replacement & Roadway	

Date: September 9, 2021

This is page 16 of 23 Project name: Improvement

County Jackson	Route SR 58	Des. No.	1900321
SECTION E – SECTION 4(f) RESOURCES	/ SECTION 6(f) RES	OURCES	
Parks and Other Recreational Land Publicly owned park Publicly owned recreation area Other (school, state/national forest, bikeway, of 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	Presence etc.)	Yes No	
	<u>Evaluations</u>		
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 minimimust be included in the appendix and summarized FHWA has identified various exceptions to the requirements of Section 4(f) of the U.S. Department of Transporta funded transportation facilities unless there is no parks, recreation areas, wildlife / waterfowl refuging properties regardless of ownership. Lands subject Based on a desktop review, the aerial map of the 4(f) resources located within the 0.5-mile search use is expected. The Hoosier National Forest, a coordination letter was sent to the Hoosier National	I below. Discuss propo- uirement for Section 4, ation Act of 1966 prohile feasible and prudent a es, and National Regis ct to this law are consi- e project area (Appendi radius. There are non- managed land, is locat	sed alternatives that satisfy the (f) approval. Refer to 23 CFR § bits the use of certain public and Iternative. The law applies to ster of Historic Places (NRHP) edered Section 4(f) resources. x B-3), and the RFI report (Apple I located within or adjacent to the discrete the control of the present the control of the control of the present the control of	e requirements of Section 4(f). 774.13 - Exceptions. d historic lands for federally significant publicly owned ligible or listed historic endix E-2), there are two (2) he project area. Therefore, no roject area. An early
Section 6(f) Involvement Section 6(f) Property		<u>Presence</u>	Use Yes No
Discuss Section 6(f) resources present or not preswill occur, discuss the conversion approval.	•		
The U.S. Land and Water Conservation Fund Accreated to preserve, develop, and assure access of lands purchased with LWCF monies to a non-IA review of 6(f) properties on the Land and Wate total of six (6) properties in Jackson County (Apparea. Therefore, there will be no impacts to 6(f) reserved.	ibility to outdoor recreaterection use. r Conservation Fund (I endix I-1). None of the	tion resources. Section 6(f) of	this Act prohibits conversion v/indot/2523.htm revealed a
SF		eplacement & Roadway	
	provement	Da	te: September 9, 2021

County	Jackson	<u> </u>		Ro	oute	SR 58		Des. No
SECTION	N F – Air	Quality						
ls Is Is	the project the project the project f Yes, then Is the proj If No, the Is the p	in the m located in an air : lect in the lect exemen: project in	ost currei n an MPC quality n e most cu npt from c		t or ma	aintenance ar)?	rea?	Yes No X X X X X
Lo	ocation in S	TIP:						Fiscal Year (FY) 2020-2024 (Amendment #4; Appendix H-1)
Na	ame of MP	O (if appl	icable):				_	N/A
	cation in T		•				_	N/A
Le	evel of MSA	AT Analys	sis require	ed?				
Le	evel 1a	X Le	evel 1b	Level	2	Level 3		Level 4 Level 5
located. Inc the TP and	licate whet TIP. Desci	her the p ribe if a h	roject is e ot spot a	exempt from a nalysis is req	a conf uired a	ormity determ and the MSAT	ninatio T Leve	
This proje standard, Managem reflected i have beer	ect is locate which was nent District n the STIP n met.	d in Jack revoked f V. Envir and con	son Cour in 2015 to onmental forms to to ying as a	nty, which is out is being e Protection A he State Imp	curren valuat <i>gency</i> lemen	tly a non-attai ed for conforn ; Et. Al. Decis tation Plan (S on (Group 1)	inmer mity d sion. T SIP). T	ent area for Ozone, under the 1997 8-hour Ozone due to the February 16, 2018, South Coast Air Quality The project's design concept and scope are accurately Therefore, the conformity requirements of 40 CFR 93 er 23 CFR 771.117(c), or exempt under the Clean Air Act exics analysis is not required.
			,					
SECTIO	N G - NOI	SE						
N.								N.
	oise							Yes No
Is	a noise an	alysis red	quired in a	accordance w	/ith FF	IWA regulatio	ns ar	and INDOT's traffic noise policy?
Da	ate Noise A	ınalysis v	vas appro	ved/technica	lly suf	ficient by IND	OT E	ESD: N/A
were identit	fied. If nois ct is a Type	<i>e impact</i> e III proje	s were ide	entified, desc cordance with	ribe if 23 Cl	abatement is	<i>feasi.</i> ne cur	describe the studies completed to date and if noise impacts sible and reasonable and include a statement of likelihood. urrent Indiana Department of Transportation Traffic Noise
				SR 5	8 Sma	ıll Structure R	Replac	acement & Roadway
This is	page 18 c	f 23 P	roject nai	me: Impro	veme	nt		Date: September 9, 2021

		ma	iana bepa	i tilli c lit Ol TTC	ansportation			
County	Jackson		Route	SR 58	De:	s. No	1900321	
SECTIO	ON H – COMMU	INITY IMPACTS						
\ \ \ [Will the proposed Will the proposed Will the proposed Will construction a Does the commun If No, are step	action result in sub	the local/regionstantial impact estantial impact estantial impact mmunity eventured transition particular the dvance the constantial impacts the const	ts to community c ts to local tax bas s (festivals, fairs, lan? nmunity's transitio	e or property values etc.)? on plan?		Yes X X X	No X X X
cohesion;	and impact comm	nunity events. Disc	cuss how the p	oroject conforms v	patterns; whether the	ion Plan.	•	
http://ww commur require f commur radius o	ww.jacksoncounty nity cohesion or lo ROW acquisition. nity fairs or festiva	in.gov/government cal tax bases and p The website www. Is in the vicinity of the during the construct	t/departments property values fairsandfestiva the project are	i-z/planning and s. Minor decrease ils.net was review a. While there are	improve local roads zoning/index.php. I es in property value r ed to determine if the fairs and festivals the preclude any of thes	t will not h nay occur e project v nat are pla	ave a substory for proper would impa anned with	stantial impact to ties that will act any n a 10-mile
(<u>http://w</u> sidewalk	ww.jacksoncounty ss and there are c		o?q=ADA+PLA rian facilities in	N) which was ena the project area.	n acted in May 2015. T This project complie			
Discuss whow the in	mpacts have been	es and services are a minimized and wh I facilities, public al	nat coordinatio	n has occurred. S	impacts (such as Mo Some examples of pu ervices, religious ins	ıblic facilit	ies and se	rvices include
public fa expected confirme	icility, a pipeline, lod. Based on reviewed by a site visit by	ocated within 0.5 n w of the project pla y SJCA Inc. on Aug	nile of the proje ins in Appendi gust 26, 2020.	ect but not within ox B-7 to B-13, the Access to all prop	B), and the RFI repor or adjacent to the pro- re are no public utilit perties will be maintant ous routes and emer-	oject area ies in the ined durin	Therefore project are good construction	e, no impacts are a. This was ction.
restricte	d to the period of		ne responsibili	ty of the project sp	ponsor to notify scho			
]]	During the develop Does the project ro f YES, then: Are any EJ p	ustice (EJ) (Preside project of the	et were EJ issusies? within the pro	ies identified? ject area?			Yes X X	No X
was requi on EJ pop	EJ issues were id red, describe how bulations and expl	dentified during pro the EJ population ain your reasoning	nject developm was identified . If yes, descri	ent. If an EJ anal I. Include if the pr be actions to avoi	pacts to EJ population In the second	d, discuss rtionately gate these	high and a e effects.	dverse effect
					and adverse effect of			
This	is page 19 of 23	Project name:	SR 58 Smal	•	cement & Roadway	Date:	Septem	ber 9, 2021

County _	Jackson	Route	SR 58	Des. No.	1900321		
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. The project will require 0.63 acre of 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 exists 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, the COC is Jackson County, Indiana. The community that overlaps the project area is called the affected community (AC). In this project, the AC is Census Tract 9680. An AC has a population of concern for EJ if the population is more than 50% minority or low-income or if the low-income or minority population is 125% of the COC. Data from the 2019 American Community Survey (ACS) 5-year Estimates was obtained from the US Census Bureau Website (https://data.census.gov/cedsci/advanced) on May 20, 2021 by SJCA Inc. The data collected for minority and low-income populations within the AC are summarized in the below table.							
	Minority and Low-income Data- 20			AO O T 100	200		
		Co	OC- Jackson County	AC- Census Tract 96 County, Indi			
	Percent Minority		11.9%	0.8%			
	125% of COC		14.8%	AC < 125%	coc		
	EJ Population of Concern			No			
	Percent Low-Income		14.6%	13.6%			
	125% of COC		18.3%	AC < 125%	COC		
	EJ Population of Concern			No			
The census minority pop	50% and is below the 125% COC threshold. Therefore, the AC does not contain low-income populations of EJ concern. The census data sheets, maps, and calculations can be found in Appendix I-18 through I-22. The AC does not contain low-income or minority populations of EJ concerns. No further EJ analysis is warranted. Relocation of People, Businesses or Farms Will the proposed action result in the relocation of people, businesses or farms? Is a BIS or CSRS required?						
	ber of relocations: Residence		Businesses:0	Farms:0	Other: 0		
	elocations that will occur due to the ns of people, businesses, or farms				in the discussion below.		
	Ç	SR 58 Sma	ll Structure Replacemer	nt & Roadway			
This is pa		mproveme		Date:	September 9, 2021		

County	Jackson	Route S	SR 58	Des. No.	1900321
SECTION	I I – HAZARDOL	JS MATERIALS & REGULA	TED SUBSTANC	ES	
Re Pha Pha De	d Flag Investigatio ase I Environment ase II Environmen sign/Specifications	s & Regulated Substances (Material (RFI) al Site Assessment (Phase I ESA) tal Site Assessment (Phase II ESA) s for Remediation required? e by INDOT SAM (if applicable):	A) SA)	Document X	ation
adjacent to, provisions, p Based on a on Februal	or ones that could pay quantities, etc. a review of GIS an ry 22, 2021 (Apper	ential hazardous material concern I impact the project area. Refer to) will be needed, include in discu- d available public records, a RFI ndix E). There are no other haza nin the project area. Further inve	to current INDOT SA ussion. Include appl I was concurred by I ardous material sites	AM guidance. If addition licable commitments. NDOT Site Assessment s located within 0.5 mile	and Management (SAM) of the project area and
PERMITS	CHECKLIST	<u>Part IV – Permi</u>	its and Com	<u>mitments</u>	
	rmits (mark all tha	at apply)	Likely Required		
IN (40	ny Corps of Enginationwide Programment of Enginal Geres Individual Perother Department of Enginal Geres Individual Perother Department of Enginal Geres Individual Perother Individual P	ineers (404/Section10 Permit) Permit (NWP) Permit (P) Permit (IP) Invironmental Management Permit (NWP) Permit (P) Permit (IP) Permit (IP	X		
An USACE stated that	401/404 RGP pe	for the project and summarize writ will be required due to anticing the DNR under the regulatory programmer.	ipated stream impac	ts. In their January 29, 2	2021, response, the IDNR
This is	page 21 of 23 F		tructure Replaceme	nt & Roadway Date	September 9, 2021

County Cashesii Boo. 140.	County	Jackson	Route	SR 58	Des. No.	1900321
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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:

- If the scope of work or permanent or temporary right-of-way amounts change, the INDOT Environmental Services Division (ESD) and the INDOT District Environmental Section will be contacted immediately. (INDOT ESD and INDOT Seymour 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) USFWS Bridge/Structure Assessment shall take place no earlier than two (2) years prior to the start of construction. If construction will begin after August 26, 2022, 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. (INDOT ESD)
- 4) Any work in a wetland area within right-of-way or in borrow/waste areas is prohibited unless specifically allowed in the U.S. Army Corps of Engineers permit. (INDOT ESD)
- 5) Wetland boundaries will be marked as "Do Not Disturb" on the final plans and on the project site. (INDOT ESD)
- 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. (USFWS)
- 7) Lighting AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)
- 8) Tree Removal AMM 1: Modify all phases/aspects of the project (e.g., temporary work areas, alignments) to avoid tree removal. (USFWS)
- 9) Tree Removal AMM 2: Apply time of year restrictions for tree removal (April 1 to September 30) when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/ rail surface and outside of documented roosting/ foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed. (USFWS, IDNR)
- 10) 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). (USFWS)
- 11) Tree Removal AMM 4: Do not remove documented Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or documented foraging habitat any time of year. (USFWS)

For Further Consideration:

12) If box or pipe culverts are used the bottoms should be buried to a minimum of 6" (or 20% of the culvert height/pipe diameter whichever is greater up to a maximum 2') below the stream bed elevation to allow a natural streambed to form within or under the crossing structure. Crossing should: span the entire channel width (a minimum of 1.2 times the bank full width); maintain the natural stream substrate within the structure; have a minimum openness ratio (height x width/ length) of 0.25; and have stream depth and water velocities during low-flow conditions that are approximate to those in the natural stream

		SR 58 Small Structure Replacement & Roadway		
This is page 22 of 23	Project name:	Improvement	_ Date:	September 9, 2021

		ingiana Depa	artment of Tra	nsportation		
County	Jackson	Route	SR 58	Des. No	o. <u>1900321</u>	
13)	channel. The new, replacem passage under the structure Riprap must not be placed in aquatic organism passage (the toe of the sideslopes up stabilized, and revegetated specifically for stream bank/	compared to the cur in the active thalweg or riprap must not be plote to the ordinary high was using geotextiles and	rrent conditions. (ID channel or placed in aced above the exiswater mark (OHWM I a mixture of grasse	NR) If the streambed in a maresting streambed elevation If the banks above the less, sedges, wildflowers, sedges, wildflowers, sedges, wildflowers, sedges, sedges, sedges, sedges, sedges, wildflowers, sedges, sedge	nner that precludes fis n). Riprap may be use OHWM must be resto shrubs, and trees nati	sh or ed only at ored,
14)	Impacts to non-wetland fore non-wetland forest is remove wetland forest under one (1) diameter-at-breast height (d number of large trees). (IDN	ed in a rural setting, i acre in an urban se bh), for each tree wh	replacement should tting should be mitig	be at a 1:1 ratio based of attention between the between the tree attentions are the street by planting five treet at the street between the between t	on the area. Impacts t es, at least 2 inches ir	to non- n
15)	Use minimum average 6-inc organisms in the voids. (IDN		e extended below th	ne normal water level to	orovide habitat for aqı	uatic
16)	Do not excavate in low flow (IDNR)	area except for the p	placement of piers, f	oundations, and riprap, o	or removal of the old s	structure.
17)	Do not construct any tempor	rary runarounds, acc	ess bridges, causev	vays, cofferdams, divers	ions, or pumparounds	s. (IDNR)
18)	Do not cut any trees suitable (IDNR)	e for Indiana bat or N	orthern Long-eared	bat roosting from April 1	through September 3	30.
19)	Restrict below low water wo around the bridge abutments			iers, pilings and/or footin	gs, shaping of the spi	ill slopes
20)	Culverts should span the ac installed where practicable of a good natural bottom subst beneath the culvert to provide	on an essentially flat rate, such as gravel,	slope. When an ope cobbles, and bould	en-bottom culvert or arch ers, the existing substrat	is used in a stream,	which has
21)	Avoid all work within the inut the fish spawning season (A cofferdams that were installed time unless the machinery is	pril 1 through June 3 ed prior to the spawn	80), except for work iing season. No equ	within sealed structures ipment shall be operated	such as caissons or	, ,
22)	Evaluate wildlife crossings ubelow bridge abutments with fencing. (USFWS)					
23)	Minimize the extent of hard a riprap is utilized for bank sta					sible. If

Improvement

This is page 23 of 23 Project name:

SR 58 Small Structure Replacement & Roadway

Date: September 9, 2021

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IDNR ResponseIDEM Groundwater Response	
CITY OF BLOOMINGTON WATER QUALITY COORDINATOR RESPONSE	
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DES 1900321

Appendix A

INDOT Supporting Documentation

Categorical Exclusion Level Thresholds

	PCE	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	≥ 1.0 a cre
Right-of-way ⁵	Property acquisition for preservation only or none	< 0.5 a cre	≥ 0.5 a cre	-	-
Relocations	None	-	-	< 5	≥5
Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat)*	"No Effect", "Not likely to Adversely Affect" (With select AMMs ⁶)	"Not likely to Adversely Affect" (With any AMMs or commitments)	-	"Likely to Adversely Affect"	Project does not fall under Species Specific Programmatic ⁷
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	-	-	1	Potential ⁸
Sole Source Aquifer	No Detailed Groundwater Assessment	-	-	1	Detailed Groundwater Assessment
Floodplain	No Substantial Impacts	-	-	-	Substantial Impacts
Section 4(f) Impacts	None	-	-	-	Any ⁹
Section 6(f) Impacts	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Noise Analysis Required	No	-	-	-	Yes
Approval Level	No	-	-	-	Yes ¹⁰
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 Avoidance and Mitigation Measures (AMMs) determined by the IPAC determination key to be required that are not tree AMMs, bridge AMMs, or structure AMMs. ⁷ 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.

⁸ Potential for causing a disproportionately high and adverse impact.

⁹ 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.

 $^{^{\}rm 10}$ Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

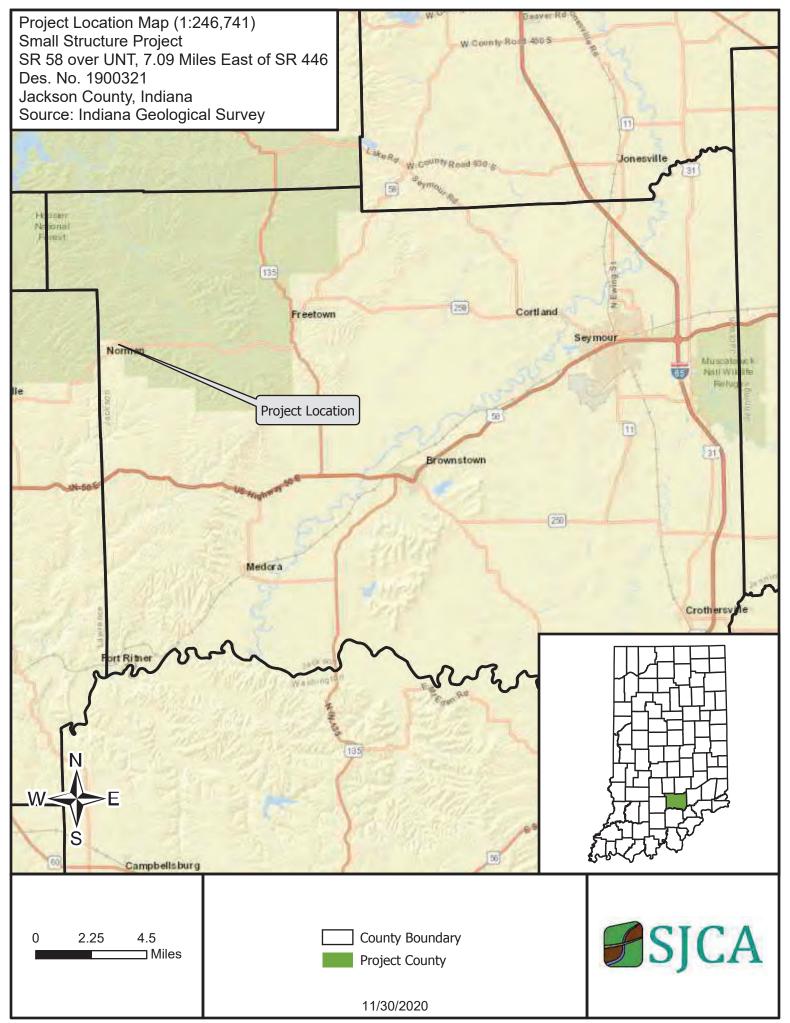
^{*} Includes the threatened/endangered species critical habitat

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

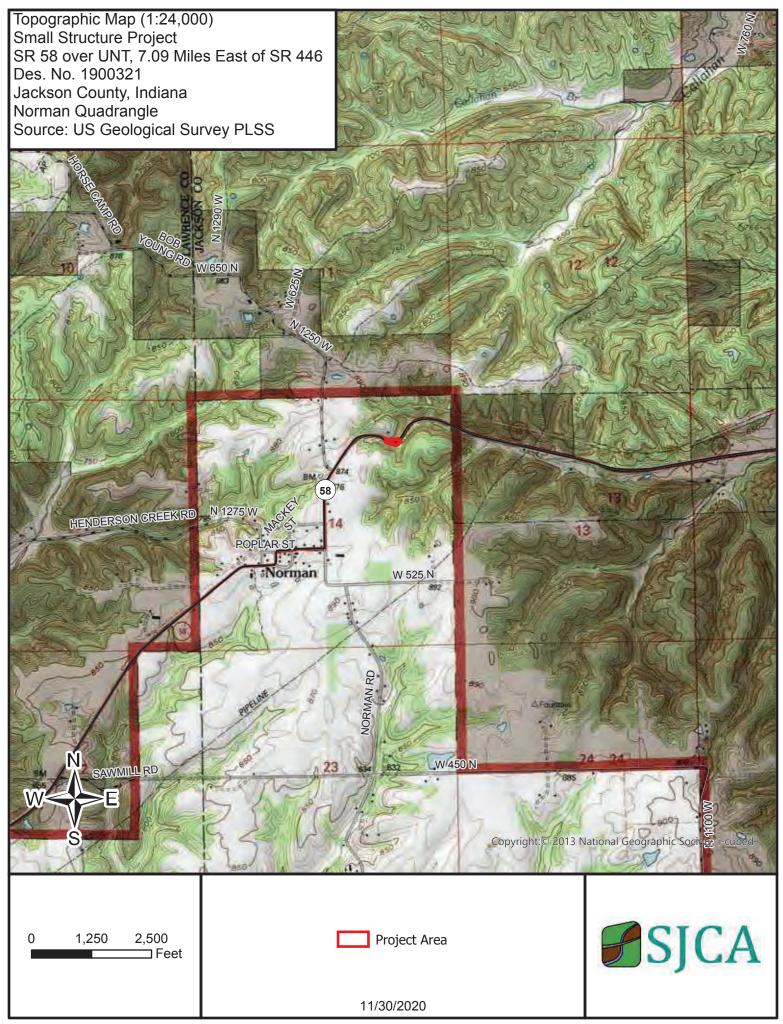
DES 1900321

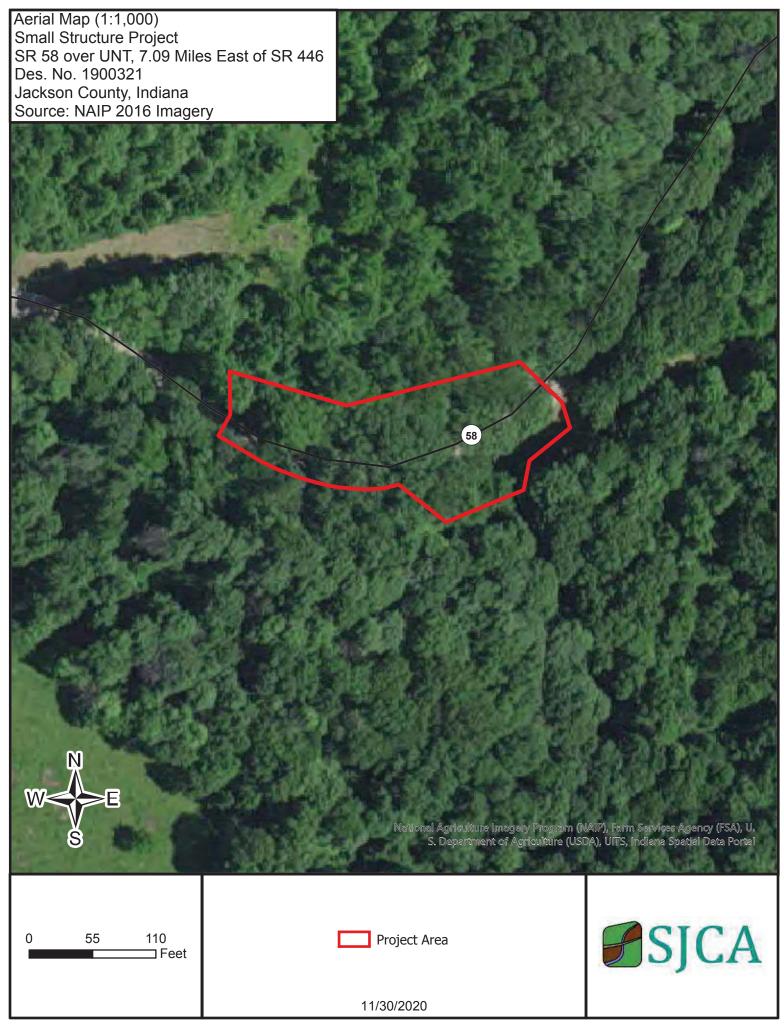
Appendix B

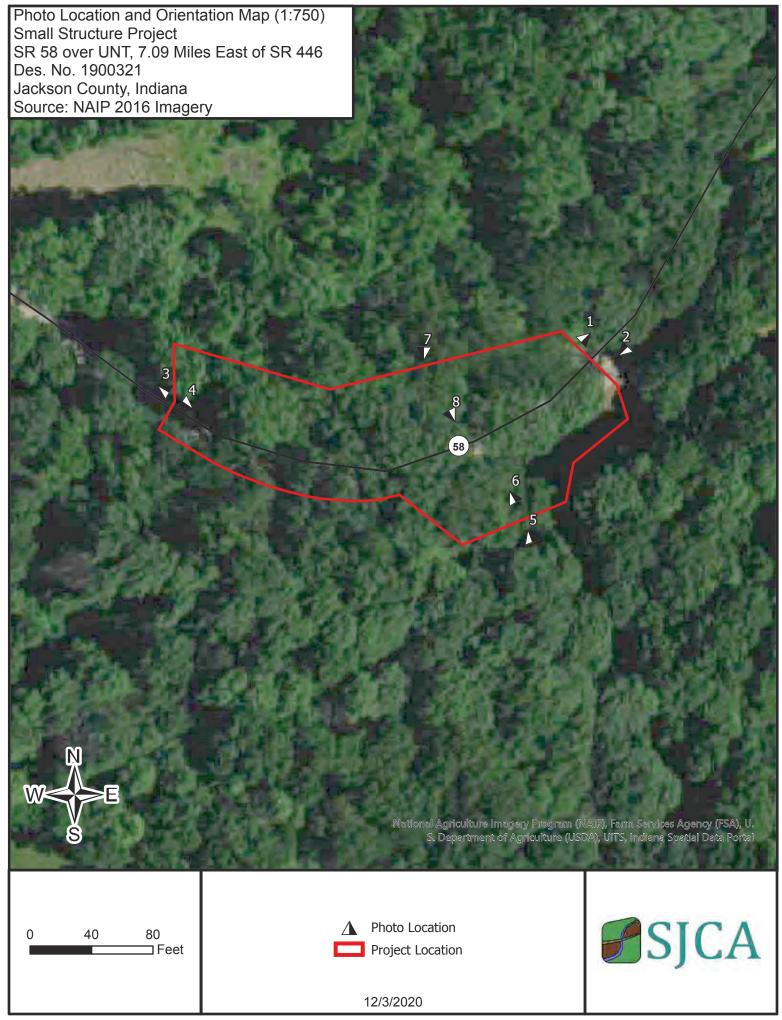
Graphics



Appendix B - 1







Des. 1900321, SR 58 Small Structure Replacement August 26, 2020 Site Photos



Photo 1- Northeast terminus, SR 58 facing east



Photo 3- Northwest Terminus, SR 58 facing west



Photo 2- Northeast terminus, SR 58 facing west

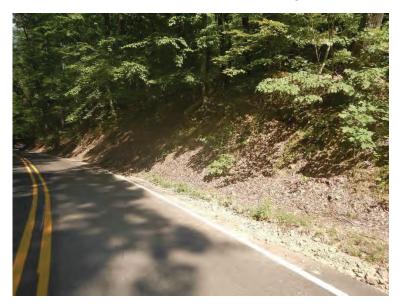


Photo 4- Northwest Terminus, SR 58 facing east

Des. 1900321, SR 58 Small Structure Replacement August 26, 2020 Site Photos



Photo 5- Ditch from south outlet facing north



Photo 7- Pipe Inlet, north end of structure



Photo 6- Pipe Outlet, south end of structure

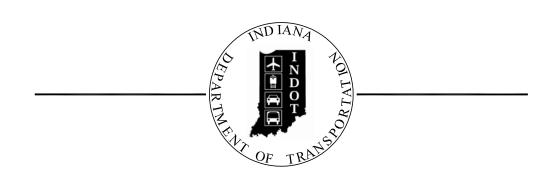


Photo 8- Inside structure, facing south

PROJECT	DESIGNATION NO.
1900321	1900321
CONTRACT	
B-42313	

KIN PROJECT INFORMATION				
DESIGNATION	PROJECT DESCRIPTION			
1800287	S.R. 135 SUPERSTRUCTURE REPLACEMENT			
1802993	S.R. 258 SMALL STRUCTURE REPLACEMENT OVER UNT TO SPRAY CREEK			

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

ROUTE: S.R. 58 AT RP 96+15 PROJECT NO. 1900321 F

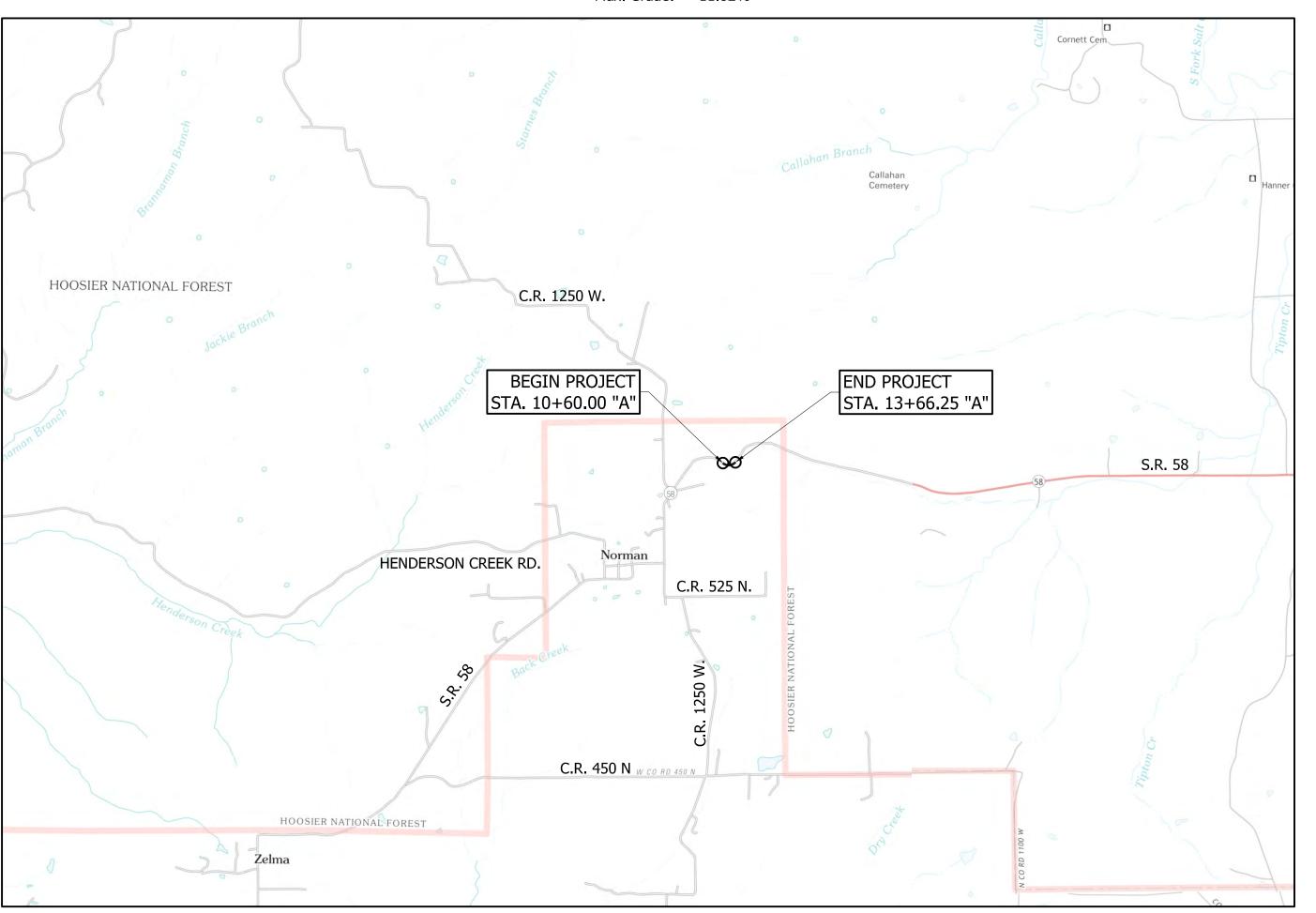
AT RP 96+15 1900321 P.E. 1900321 R/W 1900321 CONST.

SMALL STRUCTURE REPLACEMENT OVER UNNAMED DITCH 7.09 MILES EAST OF JUNCTION OF S.R. 446 ON S.R. 58 IN SEC. 14, T. 6 N, R. 2 E IN JACKSON COUNTY, INDIANA

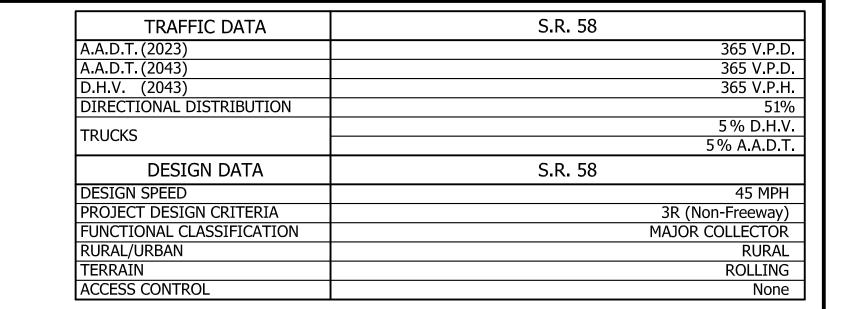
Gross Length: 0.06 Mi.

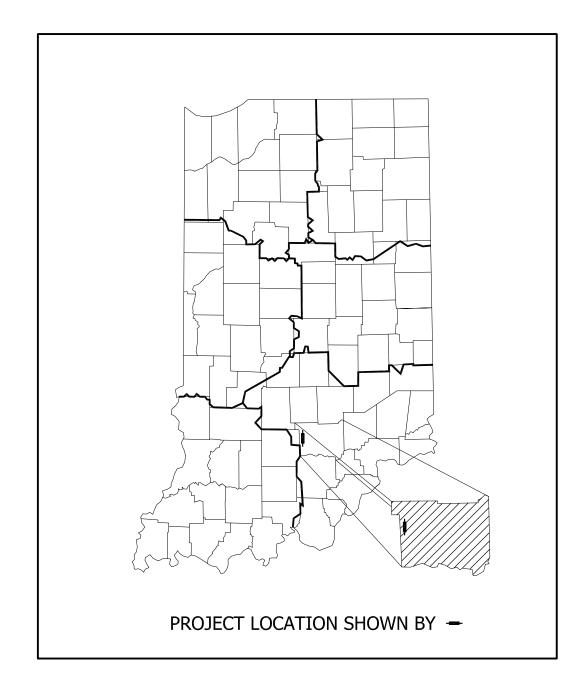
Net Length: 0.06 Mi.

Max. Grade: 11.02%









LATITUDE 38° 57' 30.96" N LONGITUDE 86° 15' 53.35" W

HUC: 05120208060030

CULVERT ASSETS				
CULVERT ASSETS				
DESIGNATION NO.	CULVERT ASSET I.D.			
1900321	CV 058-036-096.15			

STAGE 2 PLANS 8/28/2020

[INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2020 TO BE USED WITH THESE PLANS]



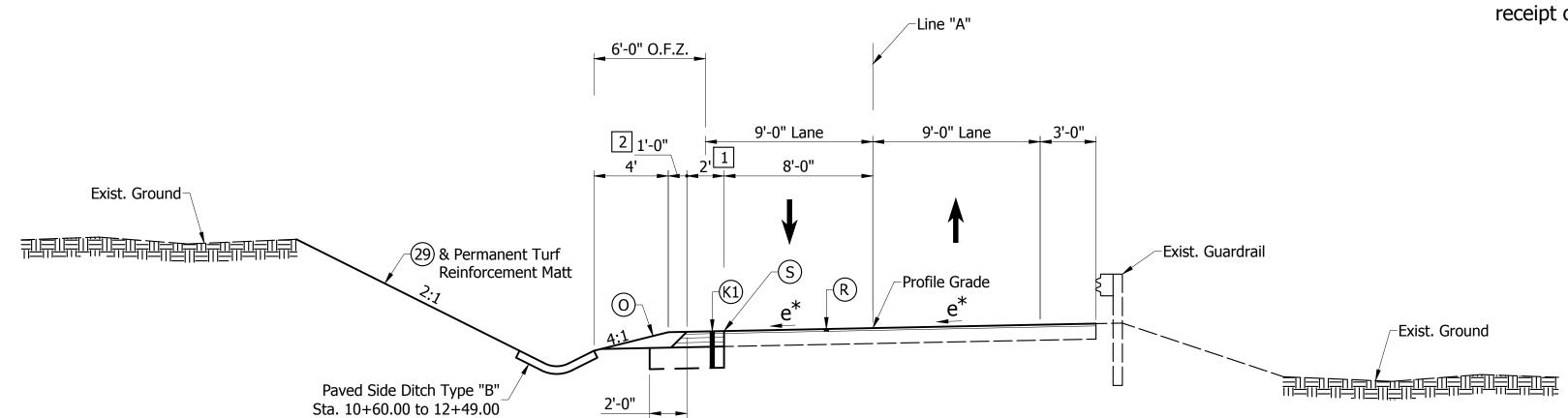
PLANS PREPAR	ED BY: U	SI Consultants, Inc.	317-544-4996 PHONE NUMBER
CERTIF			DATE
FOR LE		INDIANA DEPARTMENT OF TRANSPORTATION	N DATE

SCALE 1'' = 2,000'

DES	IGNATION	I NO.
	1900321	
	SHEETS	
1	of	29
PROJECT NO.		
	1900321	
	1	SHEETS 1 of PROJECT N

NOTE TO REVIEWER

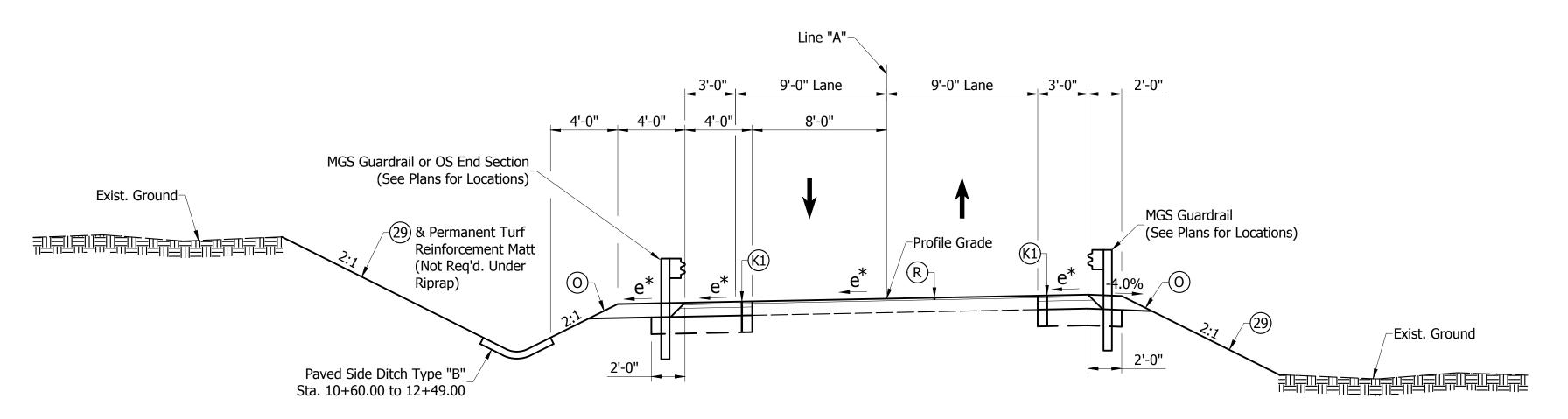
Pavement Design items to be updated upon receipt of INDOT Pavement Design



* See Superelevation Diagram

TYPICAL CROSS SECTION-RESURFACE WITH WIDENING

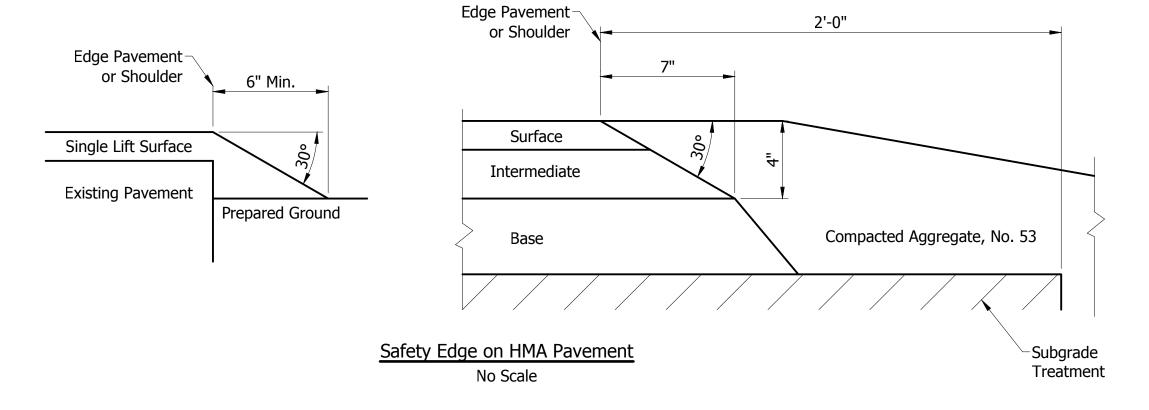
Sta. 10+60.00 to Sta. 12+35.00 Line "A"



* See Superelevation Diagram

TYPICAL CROSS SECTION-RESURFACE WITH WIDENING

Sta. 12+35.00 to Sta. 12+65.00 Line "A"



OR TION DESIGNATION

DESIGNED: _____ JGP ____ DRAWN: _____ JGP _____ CHECKED: ____ WAH ____ CHECKED: ____ WAH ____

INDIANA DEPARTMENT OF TRANSPORTATION

> TYPICAL CROSS SECTIONS S.R. 58

K HMA FULL DEPTH PAVEMENT

XXX#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on

XXX#/Syd. QC/QA-HMA, 2, 64, Intermediate 19.0 mm on

XXX#/Syd. QC/QA-HMA, 2, 64, Base 19.0 mm on

Subgrade Treatment, Type 1C

LEGEND

- K1 HMA FOR WIDENING

 XXX#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on

 XXX#/Syd. QC/QA-HMA, 2, 64, Intermediate 19.0 mm on

 XXX#/Syd. QC/QA-HMA, 2, 64, Base 19.0 mm on

 Subgrade Treatment, Type 1C
- R HMA RESURFACE / SURFACE MILLING XXX#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on 1-1/2" Surface Milling
- O Compacted Aggregate, No. 53
- S Sawcut
- (29) Mulched Seeding, R (All side slopes 2:1 and steeper to have Erosion Control Blanket except where riprap to be placed)

NOTES:

- OFZ = Obstruction Free Zone
- 1 Varies 2'-0" @ Sta. 12+25.00 to 3'-0" @ Sta. 12+35.00 "A"
- 2 Varies 1'-0" @ Sta. 12+25.00 to 4'-0" @ Sta. 12+35.00 "A"

After milling the existing pavement surface, any cracks that remain visible with 0.25 inch width or greater shall be sealed before applying tack coat to the milled surface. The materials used to fill the cracks shall be PG 64-22 only; no emulsion should be used. The sealed cracks should not be overbanded.

HMA pavements shall have joint adhesive installed at all longitudinal joints in the surface layer as per Standard Specification 401.15. A 24-inch wide liquid asphalt sealant shall be placed centered on longitudinal joints that have joint adhesive installed, as per Standard Specification 401.15.

Depending on weather condition, wet subgrade soils may be encountered during construction. Such moisture can migrate into Subgrade Treatment, Type IC aggregate material during compaction rendering it too difficult to obtain the required density. Should this situation occur, contact the INDOT Office of Geotechnical Services for specific recommendations.

HORIZONTAL SCALE

1" = 5'

VERTICAL SCALE

1" = 5'

SURVEY BOOK

CONTRACT

B-42313

BRIDGE FILE

DESIGNATION

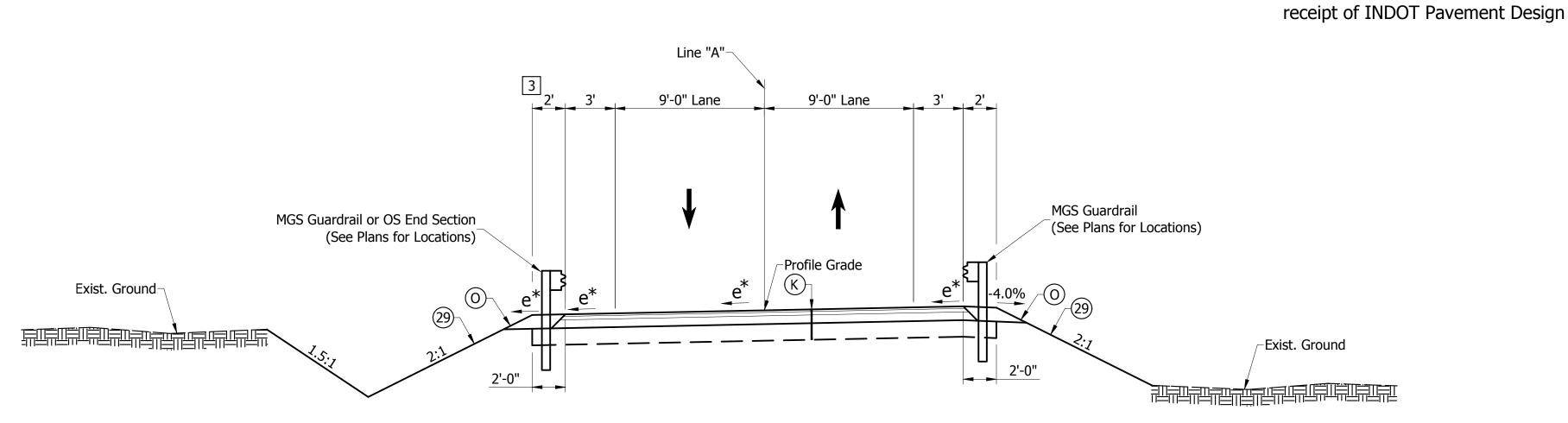
1900321

SHEETS

PROJECT

of 29

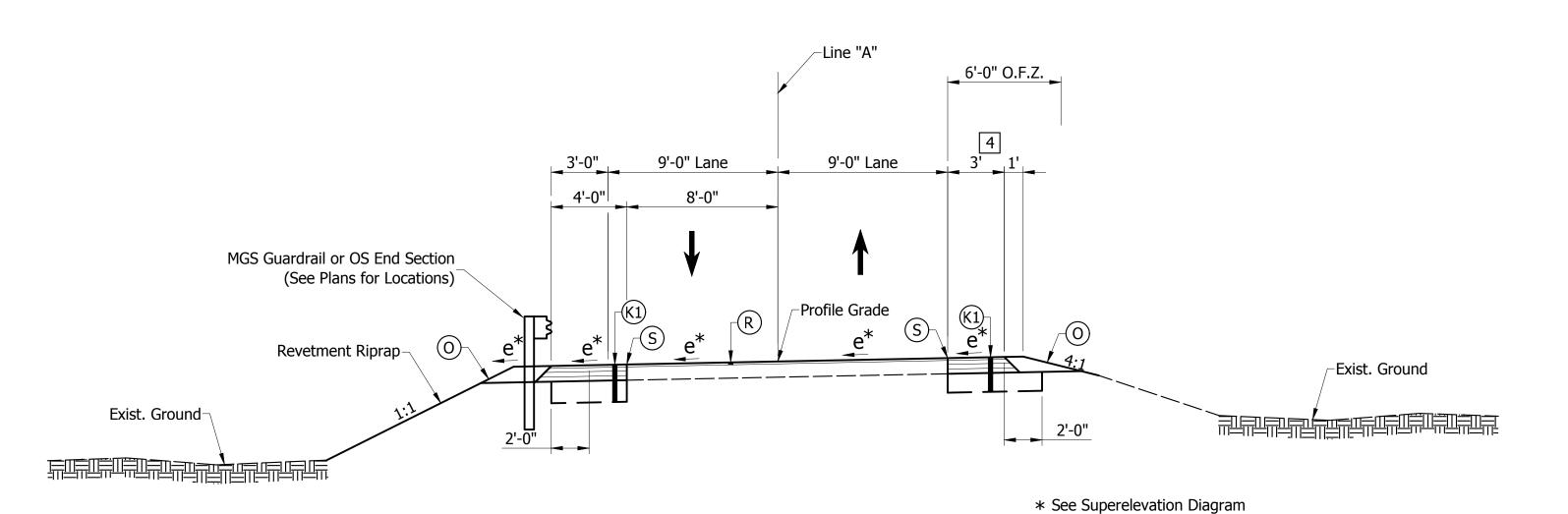
NOTE TO REVIEWER
Pavement Design items to be updated upon



* See Superelevation Diagram

TYPICAL CROSS SECTION-FULL DEPTH HMA

Sta. 12+65.00 to Sta. 13+25.00 Line "A"



TYPICAL CROSS SECTION-RESURFACE WITH WIDENING

Sta. 13+25.00 to Sta. 13+62.00 Line "A"

LEGEND

- K HMA FULL DEPTH PAVEMENT
 XXX#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on
 XXX#/Syd. QC/QA-HMA, 2, 64, Intermediate 19.0 mm on
 XXX#/Syd. QC/QA-HMA, 2, 64, Base 19.0 mm on
 Subgrade Treatment, Type 1C
- K1 HMA FOR WIDENING

 XXX#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on

 XXX#/Syd. QC/QA-HMA, 2, 64, Intermediate 19.0 mm on

 XXX#/Syd. QC/QA-HMA, 2, 64, Base 19.0 mm on

 Subgrade Treatment, Type 1C
- R HMA RESURFACE / SURFACE MILLING XXX#/Syd. QC/QA-HMA, 3, 64, Surface 9.5 mm on 1-1/2" Surface Milling
- O Compacted Aggregate, No. 53
- S Sawcut
- (29) Mulched Seeding, R (All side slopes 2:1 and steeper to have Erosion Control Blanket except where riprap to be placed)

NOTES:

- OFZ = Obstruction Free Zone
- 3 Varies 4'-0" @ Sta. 12+85.00 to 2'-0" @ Sta. 12+95.00
- 4 Varies 3'-0" @ Sta. 13+25.00 to 2'-0" @ Sta. 13+62.00

After milling the existing pavement surface, any cracks that remain visible with 0.25 inch width or greater shall be sealed before applying tack coat to the milled surface. The materials used to fill the cracks shall be PG 64-22 only; no emulsion should be used. The sealed cracks should not be overbanded.

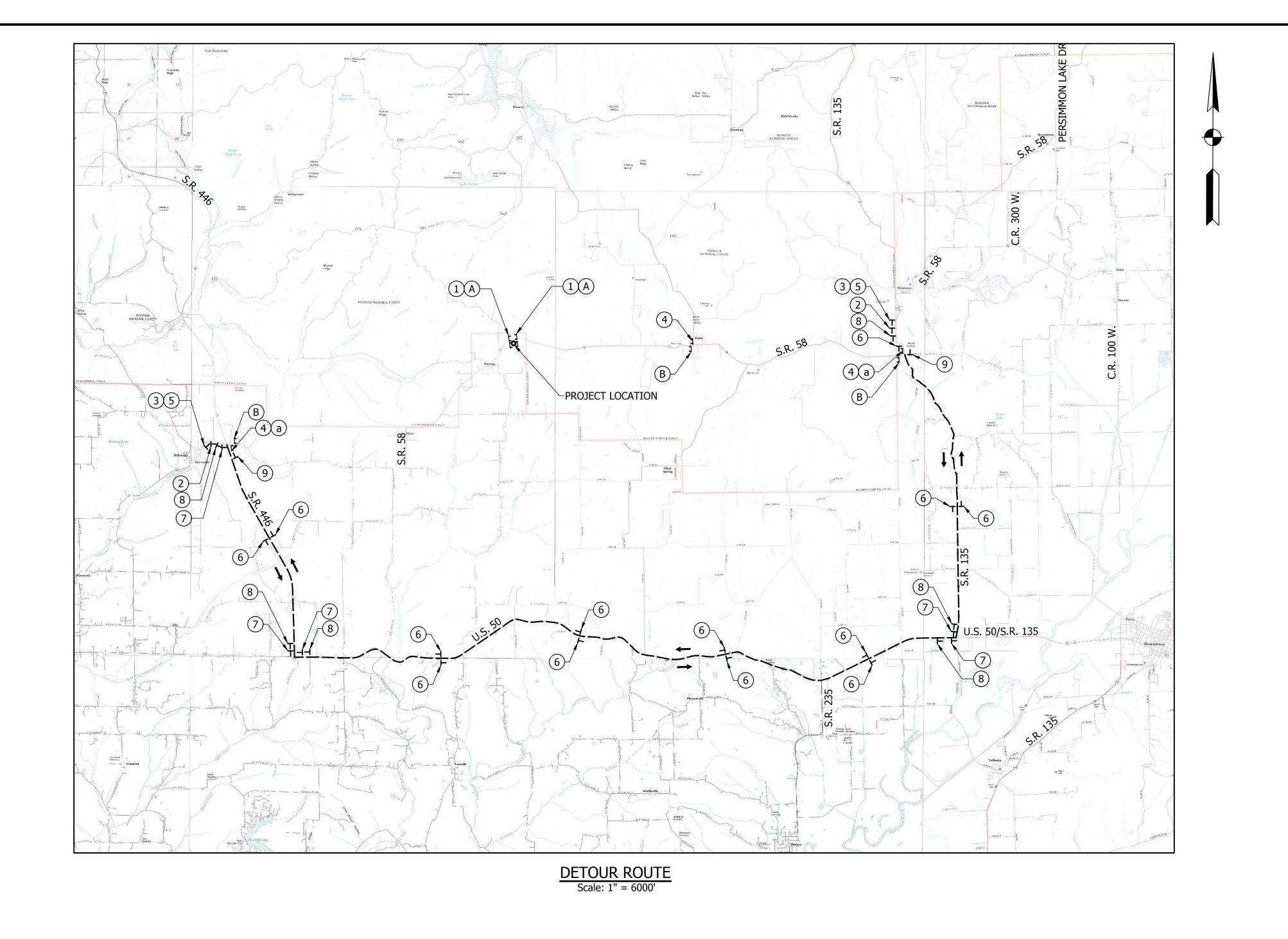
HMA pavements shall have joint adhesive installed at all longitudinal joints in the surface layer as per Standard Specification 401.15. A 24-inch wide liquid asphalt sealant shall be placed centered on longitudinal joints that have joint adhesive installed, as per Standard Specification 401.15.

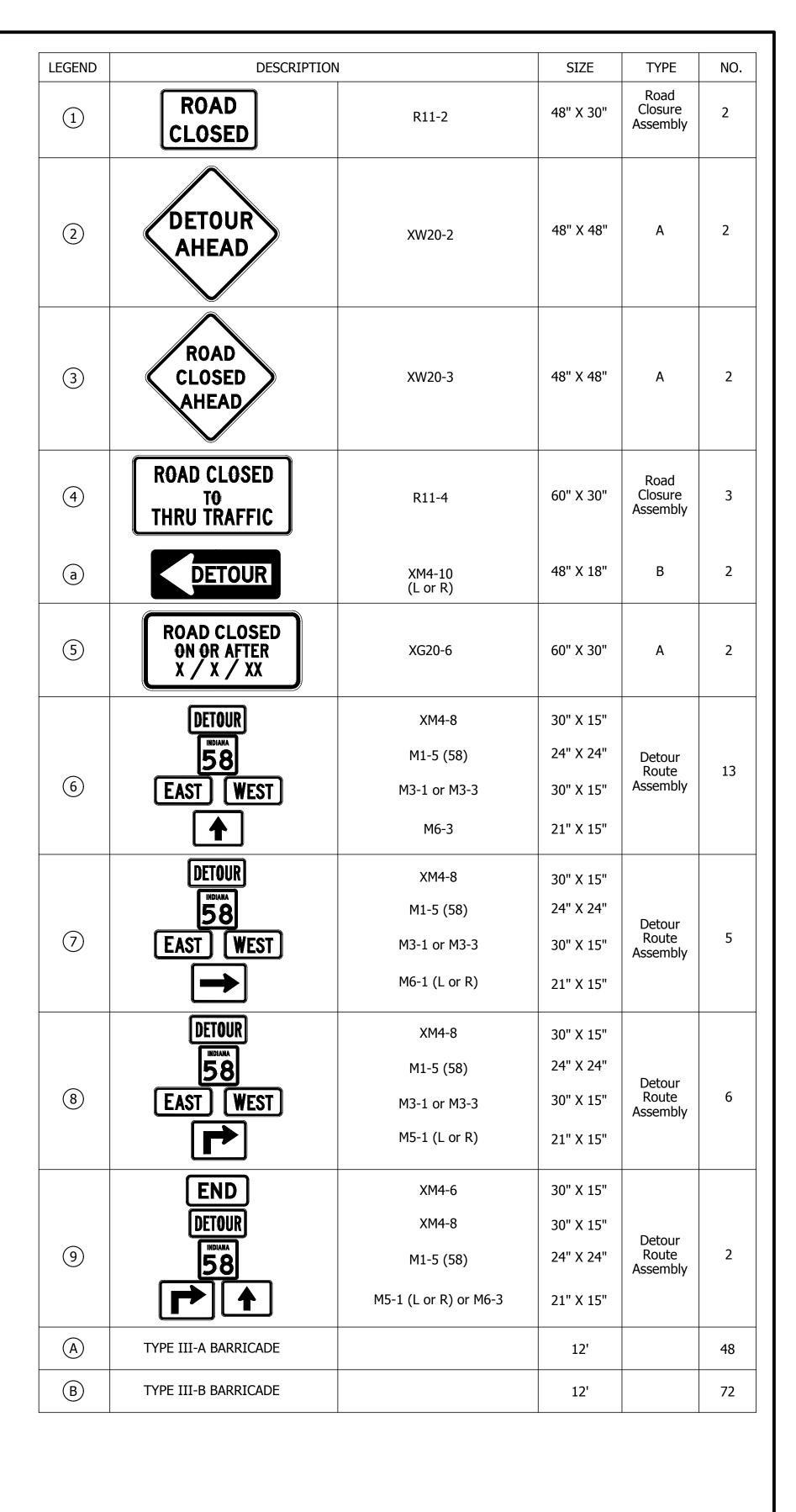
Depending on weather condition, wet subgrade soils may be encountered during construction. Such moisture can migrate into Subgrade Treatment, Type IC aggregate material during compaction rendering it too difficult to obtain the required density. Should this situation occur, contact the INDOT Office of Geotechnical Services for specific recommendations.

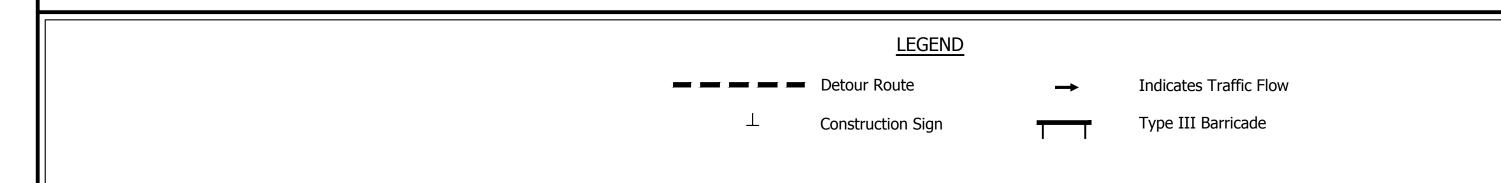
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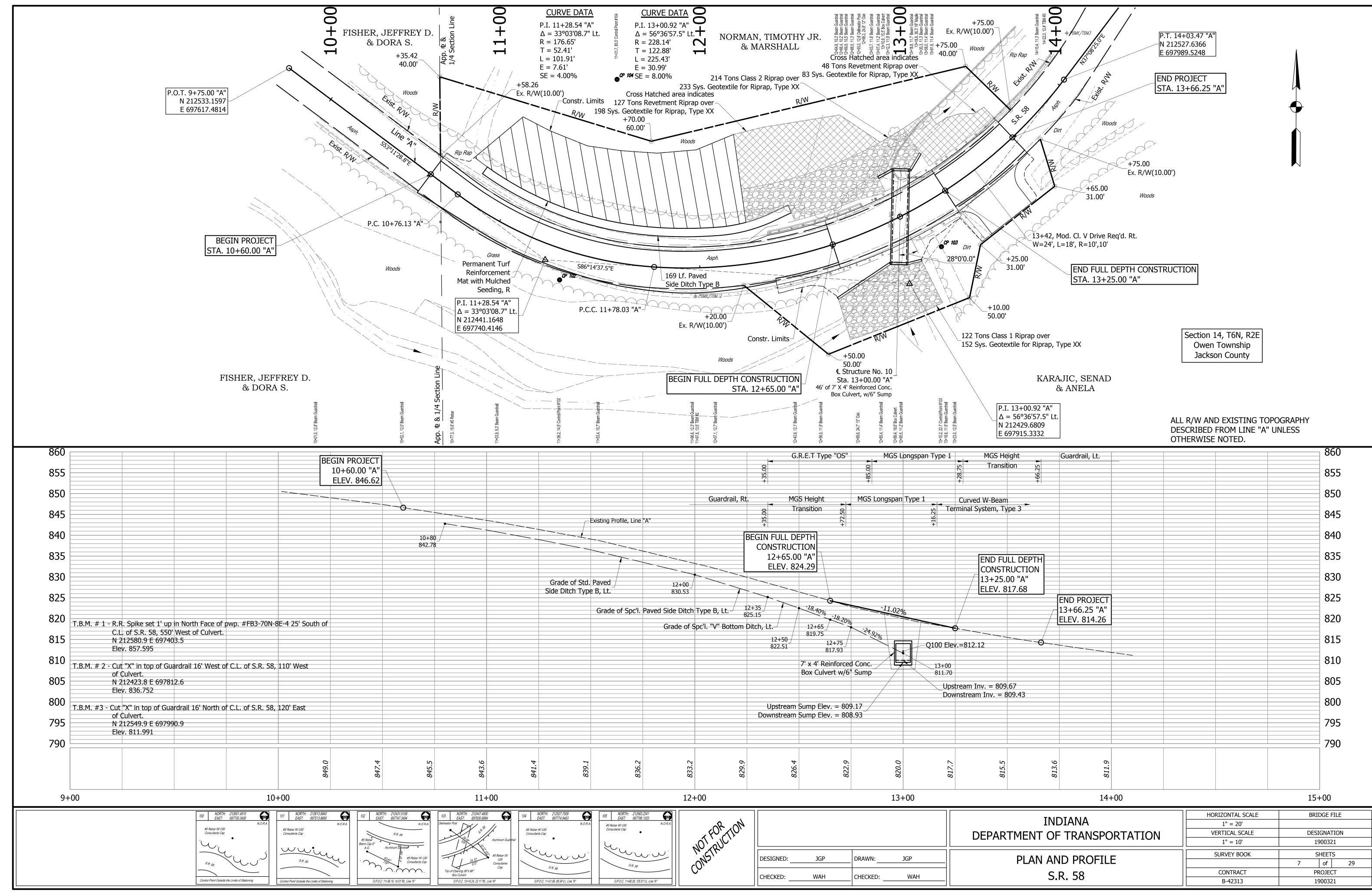


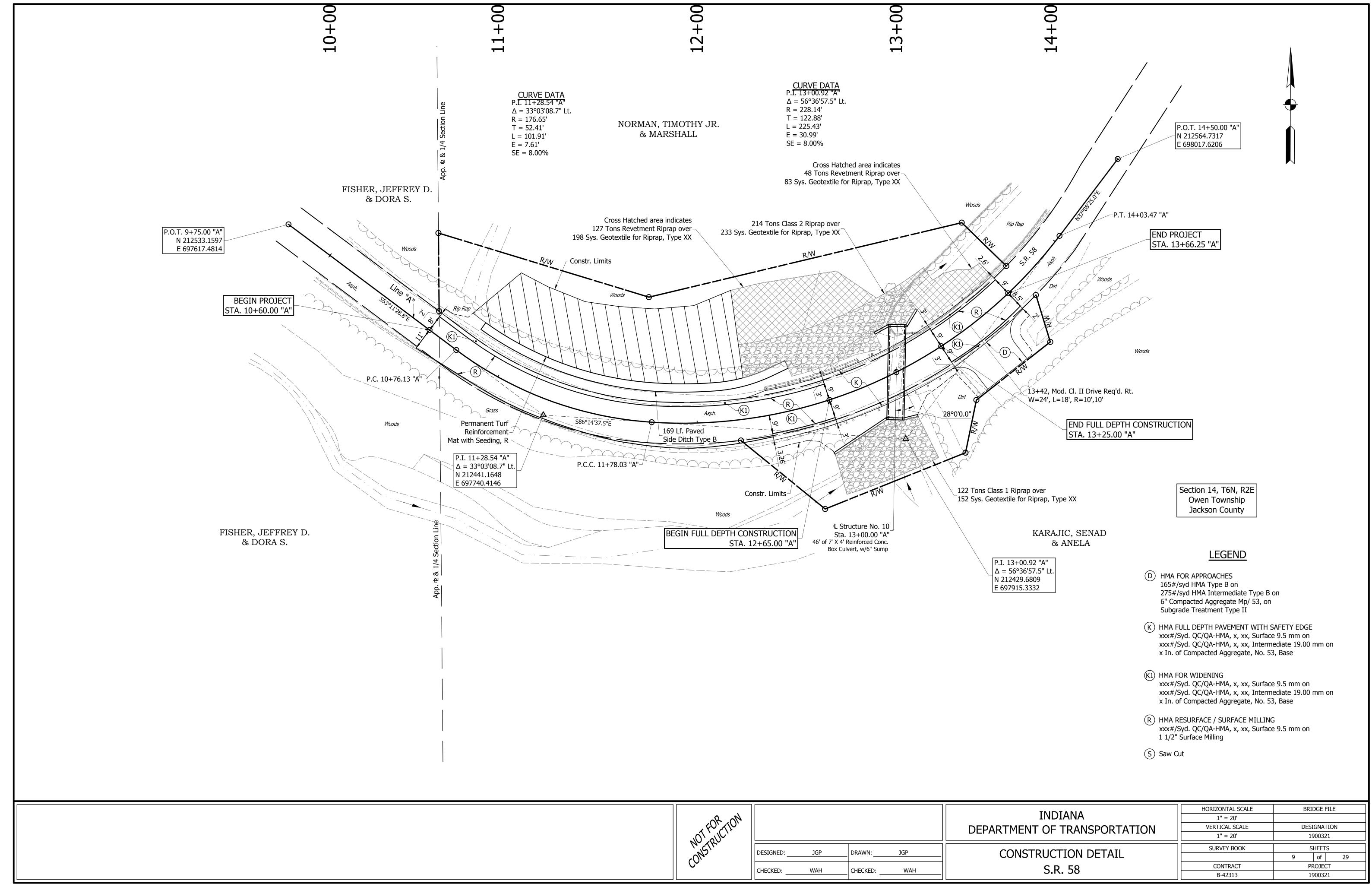


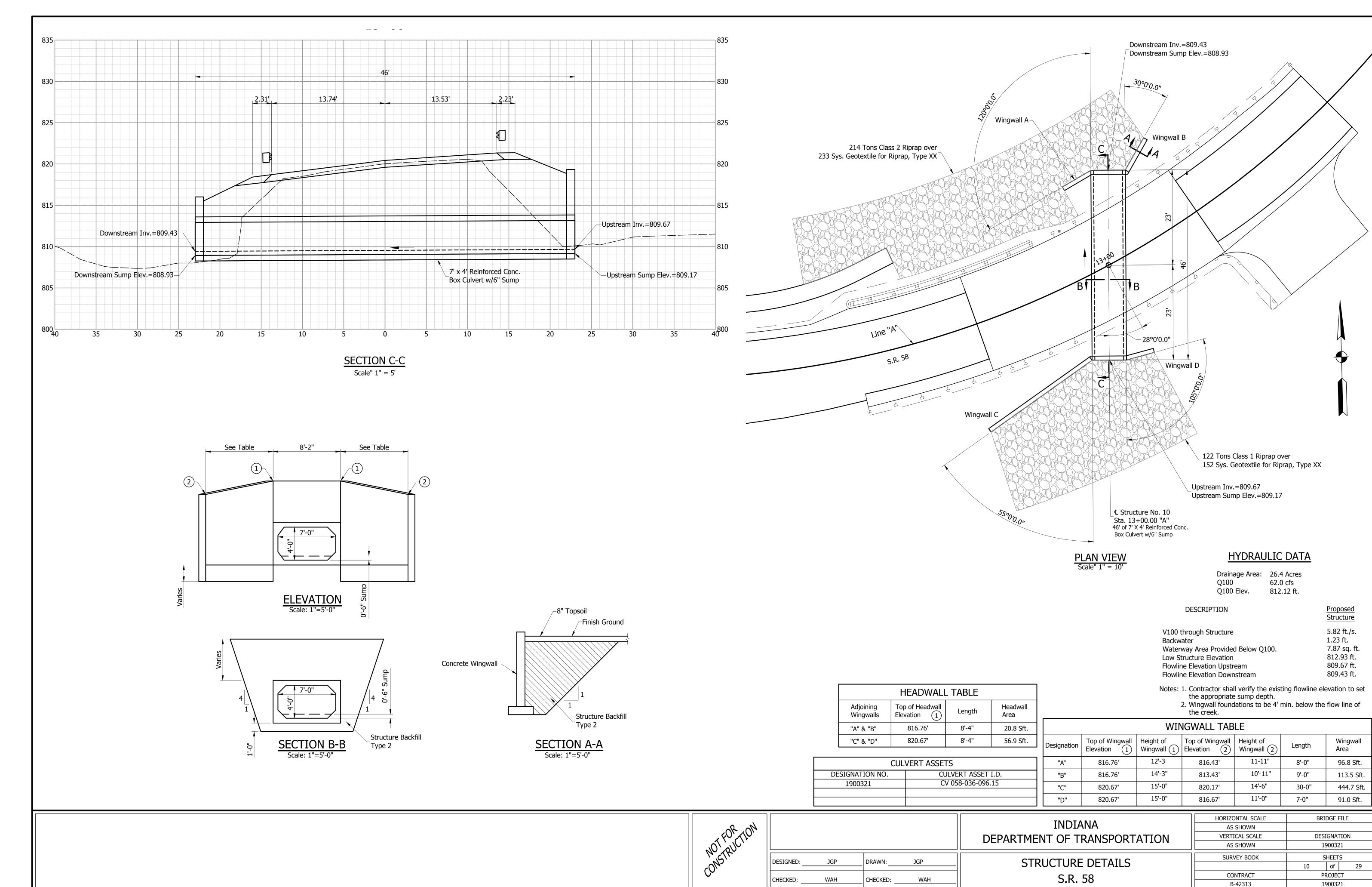
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HORIZONTAL SCALE	BRIDGE FILE				
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	6	of	29		
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B-42313					







DES 1900321

Appendix C

Early Coordination

And

Bat Habitat Assessment

INDIANA DEPARTMENT OF TRANSPORTATION



100 North Senate Avenue Room N642 Indianapolis, Indiana 46204 PHONE: (317) 233-6795 Eric J. Holcomb, Governor Joe McGuinness, Commissioner

Note to Reader: the maps and photos in Appendix B were sent with this sample early coordination letter.

December 31, 2020

RE: DES 1900321, Small Structure Replacement on SR 58, 7.09 miles East of SR 446, Jackson County

The Indiana Department of Transportation (INDOT) and Federal Highway Administration (FHWA) intends to proceed with a project involving the replacement of a small structure in Jackson 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 numbers and description in your reply. We will incorporate your comments into a study of the project's environmental impacts.

This project is located on SR 58, 7.09 miles East of SR 446, in Jackson County. This section of SR 58 is classified as a Rural Major Collector. The existing SR 58 consists of two, 9-foot travel lanes with a three (3) foot usable shoulder. The existing structure, CV 058-36-96.15, is a 5.7 foot by 2.7 foot reinforced concrete box. The structure is bordered on either side by heavily wooded or forested land. Guardrail exists on both sides of the structure. Very minimal ditching exists on the north side of the roadway through the curve, which has begun to cause erosion and deterioration of the roadway edge near the structure. Existing right of way is approximately 10 feet from the edge of existing pavement.

The current proposed project would replace the existing structure with a reinforced concrete box culvert. The project with require approximately 0.63 acre of right of way. Proposed right of way would be approximately 45 feet from the north edge of pavement and approximately 50 feet from the south edge of pavement. Some tree removal will be required. The project will be approximately 0.06 mile in length. Maintenance of traffic is anticipated to be a short-term closure of SR 58 and to utilize SR 135, US 50, and SR 446. The detour length is approximately 22 miles. Construction is anticipated to begin in Summer 2022.

Land use in the vicinity of the project is primarily wooded. A Waters of the US Determination/Wetland Delineation Report will be completed to identify any ecological resources that may be present. This project qualifies for the application of the USFWS range-wide programmatic informal consultation for the Indiana bat and northern longeared bat and project information will be submitted through USFWS's Information for Planning and Consultation (IPaC) portal separately. An archaeological investigation will be completed for any areas of new right-of-way.

Please respond with comments, questions, and concerns within thirty (30) calendar days from the date of this letter; if no response is received, it will be assumed that your agency feels that there are no adverse effects incurred as a result of this proposed project. 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 Jessica Parrish at SJCA Inc at jparrish@sjcainc.com or 317-566-0629, or INDOT Project Manager, Terry Summers at tsummers@indot.IN.gov or 317-467-3963. Thank you in advance for your input on this project.

Sincerely,

Jessica Parrish, NEPA Preparer SJCA Inc

Enclosures:

Mailing List Project Maps Ground Level Photographs



INDIANA DEPARTMENT OF TRANSPORTATION



100 North Senate Avenue Room N642 Indianapolis, Indiana 46204 PHONE: (317) 233-6795

Eric J. Holcomb, Governor Joe McGuinness, Commissioner

Federal Highway Administration Federal Office Building 575 North Pennsylvania Street, Room 254 Indianapolis, Indiana 46204 Erica Tait – Seymour District erica.tait@dot.gov

Indiana Geological and Water Survey 611 North Walnut Grove Bloomington, IN 47405 https://igws.indiana.edu/eAssessment

Environmental Coordinator Indiana Department of Natural Resources Division of Fish and Wildlife
402 West Washington Street, Rm. W273
Indianapolis, IN 46204
environmentalreview@dnr.in.gov

Regional Environmental Coordinator Midwest Regional Office National Park Service 601 Riverfront Drive Omaha, Nebraska 68102 Mwro_Compliance@nps.gov

Indiana Department of Environmental Management https://www.in.gov/idem/5284.htm

Field Environmental Officer Chicago Regional Office US Department of Housing & Urban Development Metcalf Fed. Bldg.
77 W. Jackson Blvd. Room 2401
Chicago, IL 60604
Melanie.H.Castillo@hud.gov

Indiana Department of Transportation David Dye- Seymour District <u>Ddye@indot.in.gov</u>

Field Supervisor US Fish and Wildlife Service Bloomington Indiana Field Office 620 South Walker Street Bloomington, Indiana 47403-2121 robin_mcwilliams@fws.gov Ms. Deborah Snyder US Army Corps of Engineers, Louisville District, Indianapolis Regulatory Office, Indianapolis, IN 46216 Regulatory Applications LRL@usace.army.mil

Forest Supervisor Hoosier National Forest US Forest Service 811 Constitution Avenue Bedford, Indiana 47421 kamick@fs.fed.us

Jackson County Highway Department Jerry Ault- Highway Superintendent jault@jacksoncounty.in.gov

Jackson County Commissioners Drew Markel drew@drewmarkel.com

Indiana Department of Transportation Terry Summers- Project Manager tsummers@indot.IN.gov





Organization and Project Information

Project ID:

Des. ID: DES 1900321

Project Title: SR 58 Small Structure Replacement

Name of Organization: SJCA Inc

Requested by: Jessica Parrish

Environmental Assessment Report

1. Geological Hazards:

• None documented in the area

2. Mineral Resources:

• Bedrock Resource: High Potential

• Sand and Gravel Resource: None documented in the area

3. Active or abandoned mineral resources extraction sites:

None documented in the area

*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

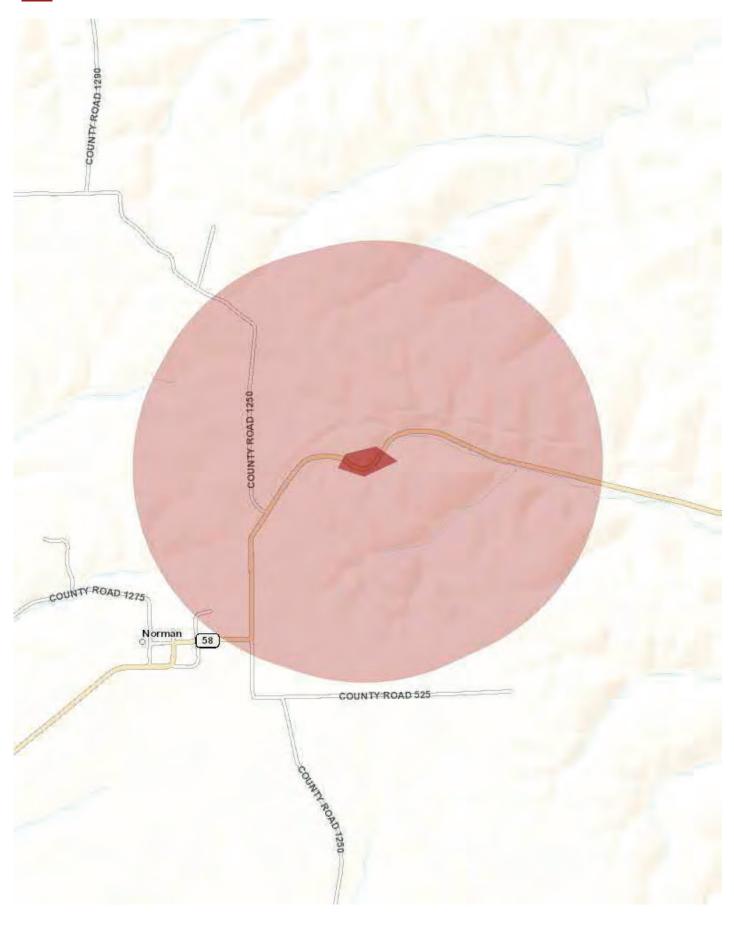
This information was furnished by Indiana Geological Survey

Address: 420 N. Walnut St., Bloomington, IN 47404

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428 Date: December 31, 2020

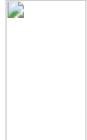






Metadata:

• https://maps.indiana.edu/metadata/Geology/Bedrock_Geology.html



Indiana Department of Environmental Management

We Protect Hoosiers and Our Environment.

100 North Senate Avenue - Indianapolis, IN 46204 (800) 451-6027 - (317) 232-8603 - www.idem.IN.gov

INDOT SJCA Inc

, IN 1104 Prospect St Indianapolis , IN 46203

Date

To Engineers and Consultants Proposing Roadway Construction Projects:

RE: DES 1900321. This project is located on SR 58, 7.09 miles East of SR 446, in Jackson County. The current proposed project would replace the existing structure with a reinforced concrete box culvert. The project with require approximately 0.63 acre of right of way. Proposed right of way would be approximately 45 feet from the north edge of pavement and approximately 50 feet from the south edge of pavement. Some tree removal will be required. The project will be approximately 0.06 mile in length. Maintenance of traffic is anticipated to be a short-term closure of SR 58 and to utilize SR 135, US 50, and SR 446. The detour length is approximately 22 miles. Construction is anticipated to begin in Summer 2022.

This letter from the Indiana Department of Environmental Management (IDEM) serves as a standardized response to enquiries inviting IDEM comments on roadway construction, reconstruction, or other improvement projects within existing roadway corridors when the proposed scope of the project is beneath the threshold requiring a formal National Environmental Policy Act-mandated Environmental Assessment or Environmental Impact Statement. As the letter attempts to address all roadway-related environmental topics of potential concern, it is possible that not every topic addressed in the letter will be applicable to your particular roadway project.

For additional information on specific roadway-related topics of interest, please visit the appropriate Web pages cited below, many of which provide contact information for persons within the various program areas who can answer questions not fully addressed in this letter. Also please be mindful that some environmental requirements may be subject to change and so each person intending to include a copy of this letter in their project documentation packet is advised to download the most recently revised version of the letter; found at: http://www.in.gov/idem/5283.htm (http://www.in.gov/idem/5283.htm).

To ensure that all environmentally-related issues are adequately addressed, IDEM recommends that you read this letter in its entirety, and consider each of the following issues as you move forward with the planning of your proposed roadway construction, reconstruction, or improvement project:

WATER AND BIOTIC QUALITY

1. Section 404 of the Clean Water Act requires that you obtain a permit from the U.S. Army Corps of Engineers (USACE) before discharging dredged or fill materials into any wetlands or other waters, such as rivers, lakes, streams, and ditches. Other activities regulated include the relocation, channelization, widening, or other such alteration of a stream, and the mechanical clearing (use of heavy construction equipment) of wetlands. Thus, as a project owner or sponsor, it is your responsibility to ensure that no wetlands are

disturbed without the proper permit. Although you may initially refer to the U.S. Fish and Wildlife Service National Wetland Inventory maps as a means of identifying potential areas of concern, please be mindful that those maps do not depict jurisdictional wetlands regulated by the USACE or the Department of Environmental Management. A valid jurisdictional wetlands determination can only be made by the USACE, using the 1987 Wetland Delineation Manual.

USACE recommends that you have a consultant check to determine whether your project will abut, or lie within, a wetland area. To view a list of consultants that have requested to be included on a list posted by the USACE on their Web site, see USACE Permits and Public Notices (http://www.lrl.usace.army.mil/orf/default.asp) (http://www.lrl.usace.army.mil/orf/default.asp) (http://www.lrl.usace.army.mil/orf/default.asp)) and then click on "Information" from the menu on the right-hand side of that page. Their "Consultant List" is the fourth entry down on the "Information" page. Please note that the USACE posts all consultants that request to appear on the list, and that inclusion of any particular consultant on the list does not represent an endorsement of that consultant by the USACE, or by IDEM.

Much of northern Indiana (Newton, Lake, Porter, LaPorte, St. Joseph, Elkhart, LaGrange, Steuben, and Dekalb counties; large portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and lesser portions of Benton, White, Pulaski, Kosciusko, and Wells counties) is served by the USACE District Office in Detroit (313-226-6812). The central and southern portions of the state (large portions of Benton, White, Pulaski, Kosciosko, and Wells counties; smaller portions of Jasper, Starke, Marshall, Noble, Allen, and Adams counties; and all other Indiana counties located in north-central, central, and southern Indiana) are served by the USACE Louisville District Office (502-315-6733).

Additional information on contacting these U.S. Army Corps of Engineers (USACE) District Offices, government agencies with jurisdiction over wetlands, and other water quality issues, can be found at http://www.in.gov/idem/4396.htm (http://www.in.gov/idem/4396.htm). IDEM recommends that impacts to wetlands and other water resources be avoided to the fullest extent.

- 2. In the event a Section 404 wetlands permit is required from the USACE, you also must obtain a Section 401 Water Quality Certification from the IDEM Office of Water Quality Wetlands Program. To learn more about the Wetlands Program, visit: http://www.in.gov/idem/4384.htm (http://www.in.gov/idem/4384.htm).
- 3. If the USACE determines that a wetland or other water body is isolated and not subject to Clean Water Act regulation, it is still regulated by the state of Indiana. A State Isolated Wetland permit from IDEM's Office of Water Quality (OWQ) is required for any activity that results in the discharge of dredged or fill materials into isolated wetlands. To learn more about isolated wetlands, contact the OWQ Wetlands Program at 317-233-8488.
- 4. If your project will involve over a 0.5 acre of wetland impact, stream relocation, or other large-scale alterations to water bodies such as the creation of a dam or a water diversion, you should seek additional input from the OWQ Wetlands Program staff. Consult the Web at: http://www.in.gov/idem/4384.htm (http://www.in.gov/idem/4384.htm) for the appropriate staff contact to further discuss your project.
- 5. Work within the one-hundred year floodway of a given water body is regulated by the Department of Natural Resources, Division of Water. The Division issues permits for activities regulated under the follow statutes:
 - IC 14-26-2 Lakes Preservation Act 312 IAC 11
 - IC 14-26-5 Lowering of Ten Acre Lakes Act No related code
 - IC 14-28-1 Flood Control Act 310 IAC 6-1
 - IC 14-29-1 Navigable Waterways Act 312 IAC 6
 - IC 14-29-3 Sand and Gravel Permits Act 312 IAC 6

IC 14-29-4 Construction of Channels Act No related code

For information on these Indiana (statutory) Code and Indiana Administrative Code citations, see the DNR Web site at: http://www.in.gov/dnr/water/9451.htm (http://www.in.gov/dnr/water/9451.htm) . Contact the DNR Division of Water at 317-232-4160 for further information.

The physical disturbance of the stream and riparian vegetation, especially large trees overhanging any affected water bodies should be limited to only that which is absolutely necessary to complete the project. The shade provided by the large overhanging trees helps maintain proper stream temperatures and dissolved oxygen for aquatic life.

- 6. For projects involving construction activity (which includes clearing, grading, excavation and other land disturbing activities) that result in the disturbance of one (1), or more, acres of total land area, contact the Office of Water Quality Watershed Planning Branch (317/233-1864) regarding the need for of a Rule 5 Storm Water Runoff Permit. Visit the following Web page
 - http://www.in.gov/idem/4902.htm (http://www.in.gov/idem/4902.htm)

To obtain, and operate under, a Rule 5 permit you will first need to develop a Construction Plan (http://www.in.gov/idem/4917.htm#constreq (http://www.in.gov/idem/4917.htm#constreq)), and as described in 327 IAC 15-5-6.5 (http://www.in.gov/legislative/iac/T03270/A00150 [PDF] (http://www.in.gov/legislative/iac/T03270/A00150.PDF), pages 16 through 19). Before you may apply for a Rule 5 Permit, or begin construction, you must submit your Construction Plan to your county Soil and Water Conservation District (SWCD) (http://www.in.gov/isda/soil/contacts/map.html (http://www.in.gov/isda/soil/contacts/map.html)).

Upon receipt of the construction plan, personnel of the SWCD or the Indiana Department of Environmental Management will review the plan to determine if it meets the requirements of 327 IAC 15-5. Plans that are deemed deficient will require re-submittal. If the plan is sufficient you will be notified and instructed to submit the verification to IDEM as part of the Rule 5 Notice of Intent (NOI) submittal. Once construction begins, staff of the SWCD or Indiana Department of Environmental Management will perform inspections of activities at the site for compliance with the regulation.

Please be mindful that approximately 149 Municipal Separate Storm Sewer System (MS4) areas are now being established by various local governmental entities throughout the state as part of the implementation of Phase II federal storm water requirements. All of these MS4 areas will eventually take responsibility for Construction Plan review, inspection, and enforcement. As these MS4 areas obtain program approval from IDEM, they will be added to a list of MS4 areas posted on the IDEM Website at: http://www.in.gov/idem/4900.htm (http://www.in.gov/idem/4900.htm).

If your project is located in an IDEM-approved MS4 area, please contact the local MS4 program about meeting their storm water requirements. Once the MS4 approves the plan, the NOI can be submitted to IDEM.

Regardless of the size of your project, or which agency you work with to meet storm water requirements, IDEM recommends that appropriate structures and techniques be utilized both during the construction phase, and after completion of the project, to minimize the impacts associated with storm water runoff. The use of appropriate planning and site development and appropriate storm water quality measures are recommended to prevent soil from leaving the construction site during active land disturbance and for post construction water quality concerns. Information and assistance regarding storm water related to construction activities are available from the Soil and Water Conservation District (SWCD) offices in each county or from IDEM.

3/7

- 7. For projects involving impacts to fish and botanical resources, contact the Department of Natural Resources Division of Fish and Wildlife (317/232-4080) for addition project input.
- 8. For projects involving water main construction, water main extensions, and new public water supplies, contact the Office of Water Quality Drinking Water Branch (317-308-3299) regarding the need for permits.
- 9. For projects involving effluent discharges to waters of the State of Indiana, contact the Office of Water Quality Permits Branch (317-233-0468) regarding the need for a National Pollutant Discharge Elimination System (NPDES) permit.
- 10. For projects involving the construction of wastewater facilities and sewer lines, contact the Office of Water Quality Permits Branch (317-232-8675) regarding the need for permits.

AIR QUALITY

The above-noted project should be designed to minimize any impact on ambient air quality in, or near, the project area. The project must comply with all federal and state air pollution regulations. Consideration should be given to the following:

1. Regarding open burning, and disposing of organic debris generated by land clearing activities; some types of open burning are allowed (http://www.in.gov/idem/4148.htm (http://www.in.gov/idem/4148.htm)) under specific conditions. You also can seek an open burning variance from IDEM.

However, IDEM generally recommends that you take vegetative wastes to a registered yard waste composting facility or that the waste be chipped or shredded with composting on site (you must register with IDEM if more than 2,000 pounds is to be composted; contact 317/232-0066). The finished compost can then be used as a mulch or soil amendment. You also may bury any vegetative wastes (such as leaves, twigs, branches, limbs, tree trunks and stumps) onsite, although burying large quantities of such material can lead to subsidence problems, later on.

Reasonable precautions must be taken to minimize fugitive dust emissions from construction and demolition activities. For example, wetting the area with water, constructing wind barriers, or treating dusty areas with chemical stabilizers (such as calcium chloride or several other commercial products). Dirt tracked onto paved roads from unpaved areas should be minimized.

Additionally, if construction or demolition is conducted in a wooded area where blackbirds have roosted or abandoned buildings or building sections in which pigeons or bats have roosted for 3-5 years precautionary measures should be taken to avoid an outbreak of histoplasmosis. This disease is caused by the fungus Histoplasma capsulatum, which stems from bird or bat droppings that have accumulated in one area for 3-5 years. The spores from this fungus become airborne when the area is disturbed and can cause infections over an entire community downwind of the site. The area should be wetted down prior to cleanup or demolition of the project site. For more detailed information on histoplasmosis prevention and control, please contact the Acute Disease Control Division of the Indiana State Department of Health at (317) 233-7272.

2. The U.S. EPA and the Surgeon General recommend that people not have long-term exposure to radon at levels above 4 pCi/L. (For a county-by-county map of predicted radon levels in Indiana, visit: http://www.in.gov/idem/4145.htm (http://www.in.gov/idem/4145.htm).)

The U.S. EPA further recommends that all homes (and apartments within three stories of ground level) be tested for radon. If in-home radon levels are determined to be 4 pCi/L, or higher, EPA recommends a follow-up test. If the second test confirms that radon levels are 4 pCi/L, or higher, EPA recommends the installation

of radon-reduction measures. (For a list of qualified radon testers and radon mitigation (or reduction) specialists visit: http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf (http://www.in.gov/isdh/regsvcs/radhealth/pdfs/radon_testers_mitigators_list.pdf).) It also is recommended that radon reduction measures be built into all new homes, particularly in areas like Indiana that have moderate to high predicted radon levels.

To learn more about radon, radon risks, and ways to reduce exposure visit: http://www.in.gov/isdh/regsvcs/radhealth/radon.htm (http://www.in.gov/isdh/regsvcs/radhealth/radon.htm), http://www.in.gov/idem/4145.htm (http://www.in.gov/idem/4145.htm), or http://www.epa.gov/radon/index.html (http://www.epa.gov/radon/index.html).

3. With respect to asbestos removal: all facilities slated for renovation or demolition (except residential buildings that have (4) four or fewer dwelling units and which will not be used for commercial purposes) must be inspected by an Indiana-licensed asbestos inspector prior to the commencement of any renovation or demolition activities. If regulated asbestos-containing material (RACM) that may become airborne is found, any subsequent demolition, renovation, or asbestos removal activities must be performed in accordance with the proper notification and emission control requirements.

If no asbestos is found where a renovation activity will occur, or if the renovation involves removal of less than 260 linear feet of RACM off of pipes, less than 160 square feet of RACM off of other facility components, or less than 35 cubic feet of RACM off of all facility components, the owner or operator of the project does not need to notify IDEM before beginning the renovation activity.

For questions on asbestos demolition and renovation activities, you can also call IDEM's Lead/Asbestos section at 1-888-574-8150.

However, in all cases where a demolition activity will occur (even if no asbestos is found), the owner or operator must still notify IDEM 10 working days prior to the demolition, using the form found at http://www.in.gov/icpr/webfile/formsdiv/44593.pdf (http://www.in.gov/icpr/webfile/formsdiv/44593.pdf).

Anyone submitting a renovation/demolition notification form will be billed a notification fee based upon the amount of friable asbestos containing material to be removed or demolished. Projects that involve the removal of more than 2,600 linear feet of friable asbestos containing materials on pipes, or 1,600 square feet or 400 cubic feet of friable asbestos containing material on other facility components, will be billed a fee of \$150 per project; projects below these amounts will be billed a fee of \$50 per project. All notification remitters will be billed on a quarterly basis.

For more information about IDEM policy regarding asbestos removal and disposal, visit: http://www.in.gov/idem/4983.htm (http://www.in.gov/idem/4983.htm).

- 4. With respect to lead-based paint removal: IDEM encourages all efforts to minimize human exposure to lead-based paint chips and dust. IDEM is particularly concerned that young children exposed to lead can suffer from learning disabilities. Although lead-based paint abatement efforts are not mandatory, any abatement that is conducted within housing built before January 1, 1978, or a child-occupied facility is required to comply with all lead-based paint work practice standards, licensing and notification requirements. For more information about lead-based paint removal visit: http://www.in.gov/isdh/19131.htm (http://www.in.gov/isdh/1931.htm).
- 5. Ensure that asphalt paving plants are permitted and operate properly. The use of cutback asphalt, or asphalt emulsion containing more than seven percent (7%) oil distillate, is prohibited during the months April through October. See 326 IAC 8-5-2, Asphalt Paving Rule

(http://www.ai.org/legislative/iac/T03260/A00080.PDF (http://www.ai.org/legislative/iac/T03260/A00080.PDF)).

- 6. If your project involves the construction of a new source of air emissions or the modification of an existing source of air emissions or air pollution control equipment, it will need to be reviewed by the IDEM Office of Air Quality (OAQ). A registration or permit may be required under 326 IAC 2 (View at: www.ai.org/legislative/iac/t03260/a00020.pdf (http://www.ai.org/legislative/iac/t03260/a00020.pdf).) New sources that use or emit hazardous air pollutants may be subject to Section 112 of the Clean Air Act and corresponding state air regulations governing hazardous air pollutants.
- 7. For more information on air permits visit: http://www.in.gov/idem/4223.htm (http://www.in.gov/idem/4223.htm), or to initiate the IDEM air permitting process, please contact the Office of Air Quality Permit Reviewer of the Day at (317) 233-0178 or OAMPROD atdem.state.in.us.

LAND QUALITY

In order to maintain compliance with all applicable laws regarding contamination and/or proper waste disposal, IDEM recommends that:

- 1. If the site is found to contain any areas used to dispose of solid or hazardous waste, you need to contact the Office of Land Quality (OLQ)at 317-308-3103.
- 2. All solid wastes generated by the project, or removed from the project site, need to be taken to a properly permitted solid waste processing or disposal facility. For more information, visit http://www.in.gov/idem/4998.htm (http://www.in.gov/idem/4998.htm).
- 3. If any contaminated soils are discovered during this project, they may be subject to disposal as hazardous waste. Please contact the OLQ at 317-308-3103 to obtain information on proper disposal procedures.
- 4. If PCBs are found at this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding management of any PCB wastes from this site.
- 5. If there are any asbestos disposal issues related to this site, please contact the Industrial Waste Section of OLQ at 317-308-3103 for information regarding the management of asbestos wastes (Asbestos removal is addressed above, under Air Quality).
- 6. If the project involves the installation or removal of an underground storage tank, or involves contamination from an underground storage tank, you must contact the IDEM Underground Storage Tank program at 317/308-3039. See: http://www.in.gov/idem/4999.htm (http://www.in.gov/idem/4999.htm).

FINAL REMARKS

Should you need to obtain any environmental permits in association with this proposed project, please be mindful that IC 13-15-8 requires that you notify all adjoining property owners and/or occupants within ten days your submittal of each permit application. However, if you are seeking multiple permits, you can still meet the notification requirement with a single notice if all required permit applications are submitted with the same ten day period.

Should the scope of the proposed project be expanded to the extent that a National Environmental Policy Act Environmental Assessment (EA) or Environmental Impact Statement (EIS) is required, IDEM will actively participate in any early interagency coordination review of the project.

Meanwhile, please note that this letter does not constitute a permit, license, endorsement or any other form of approval on the part of the Indiana Department of Environmental Management regarding any project for which a copy of this letter is used. Also note that is it the responsibility of the project engineer or consultant using this letter to ensure that the most current draft of this document, which is located at http://www.in.gov/idem/5284.htm (http://www.in.gov/idem/5284.htm), is used.

Signature(s) of the Applicant

I acknowledge that the following proposed roadway project will be financed in part, or in whole, by public monies.

Project Description

DES 1900321. This project is located on SR 58, 7.09 miles East of SR 446, in Jackson County. The current proposed project would replace the existing structure with a reinforced concrete box culvert. The project with require approximately 0.63 acre of right of way. Proposed right of way would be approximately 45 feet from the north edge of pavement and approximately 50 feet from the south edge of pavement. Some tree removal will be required. The project will be approximately 0.06 mile in length. Maintenance of traffic is anticipated to be a short-term closure of SR 58 and to utilize SR 135, US 50, and SR 446. The detour length is approximately 22 miles. Construction is anticipated to begin in Summer 2022.

With my signature, I do hereby affirm that I have read the letter from the Indiana Department of Environment that appears directly above. In addition, I understand that in order to complete that project in which I am interested, with a minimum of impact to the environment, I must consider all the issues addressed in the aforementioned letter, and further, that I must obtain any required permits.

Date:	3/26/2021				
•	e of the INDOT ngineer or Other Responsible	Agent Carry	M.	Sunners	
Date:	3/26/2021				
Signature For Hire C	of the Consultant	ra Parrish			
		leccica	Darrich		

From: McWilliams, Robin
To: Jessica Parrish

 Subject:
 Re: [EXTERNAL] DES 1900321 SR 58

 Date:
 Wednesday, January 27, 2021 10:54:44 AM

Attachments: <u>image001.png</u>

Dear Jessica,

This responds to your recent letter requesting our comments on the aforementioned project.

These comments have been prepared under the authority of the Fish and Wildlife Coordination Act (16 U.S.C. 661 et. seq.) and are consistent with the intent of the National Environmental Policy Act of 1969, the Endangered Species Act of 1973, and the U. S. Fish and Wildlife Service's Mitigation Policy.

The project is within the range of the Indiana bat (Myotis sodalis) and northern long-eared bat (Myotis septentrionalis) and should follow the new Indiana bat/northern long-eared bat programmatic consultation process, if applicable (i.e. a federal transportation nexus is established). The Service has 14 days after a "Not Likely to Adversely Affect" determination letter is generated to review the project and provide additional comments or request additional information; if you do not receive a response from us within 14 days, we have no additional comments.

Based on a review of the information you provided, the U.S. Fish and Wildlife Service has no other comments on the project as currently proposed. However, should new information arise pertaining to project plans or a revised species list be published, it will be necessary for the Federal agency to reinitiate consultation. Standard recommendations are provided below.

We appreciate the opportunity to comment at this early stage of project planning. If you have any questions about our recommendations, please call (812) 334-4261 x. 207.

Sincerely, Robin McWilliams Munson

Standard Recommendations:

- 1. Do not clear trees or understory vegetation outside the construction zone boundaries. (**This** restriction is not related to the "tree clearing" restriction for potential Indiana Bat habitat.)
- 2. Restrict below low-water work in streams to placement of culverts, piers, pilings and/or footings, shaping of the spill slopes around the bridge abutments, and placement of riprap. Culverts should span the active stream channel, should be either embedded or a 3-sided or openarch culvert, and be installed where practicable on an essentially flat slope. When an open-bottom culvert or arch is used in a stream, which has a good natural bottom substrate, such as gravel, cobbles and boulders, the existing substrate should be left undisturbed beneath the culvert to provide natural habitat for the aquatic community.
- 3. Restrict channel work and vegetation clearing to the minimum necessary for installation of the stream crossing structure.
- 4. Minimize the extent of hard armor (riprap) in bank stabilization by using bioengineering

techniques whenever possible. If riprap is utilized for bank stabilization, extend it below low-water elevation to provide aquatic habitat.

- 5. Implement temporary erosion and sediment control methods within areas of disturbed soil. All disturbed soil areas upon project completion will be vegetated following INDOT's standard specifications.
- 6. Avoid all work within the inundated part of the stream channel (in perennial streams and larger intermittent streams) during the fish spawning season (April 1 through June 30), except for work within sealed structures such as caissons or cofferdams that were installed prior to the spawning season. No equipment shall be operated below Ordinary High Water Mark during this time unless the machinery is within the caissons or on the cofferdams.
- 7. Evaluate wildlife crossings under bridge/culverts projects in appropriate situations. Suitable crossings include flat areas below bridge abutments with suitable ground cover, high water shelves in culverts, amphibian tunnels and diversion fencing

Robin McWilliams Munson Fish and Wildlife Biologist U.S. Fish and Wildlife Service 620 South Walker Street Bloomington, IN 46142 812-334-4261

Mon-Tues 8-3:30p Wed-Thurs 8:30-3p Telework

From: Jessica Parrish < jparrish@sjcainc.com> **Sent:** Thursday, December 31, 2020 10:40 AM

To: erica.tait@dot.gov <erica.tait@dot.gov>; DNR Environmental Review <environmentalreview@dnr.IN.gov>; MWRO Compliance, NPS <MWRO_Compliance@nps.gov>; Melanie.h.castillo@hud.gov <Melanie.h.castillo@hud.gov>;

RegulatoryApplicationsLRL@usace.army.mil <RegulatoryApplicationsLRL@usace.army.mil>; kamick@fs.fed.us <kamick@fs.fed.us>; jault@jacksoncounty.in.gov <jault@jacksoncounty.in.gov>; drew@drewmarkel.com <drew@drewmarkel.com>; auditor@jacksoncounty.in.gov <auditor@jacksoncounty.in.gov>; bye, David <DDYE@indot.IN.gov>; McWilliams, Robin <robin mcwilliams@fws.gov>

Subject: [EXTERNAL] DES 1900321 SR 58

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Good morning,

Attached is the early coordination packet for SR 58 Small Structure Replacement in Jackson County, Indiana. Your comments are requested in thirty (30) days.

THIS IS NOT A PERMIT

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife

Early Coordination/Environmental Assessment

DNR #: ER-23320 Request Received: December 31, 2020

Requestor: SJCA Inc

Jessica Parrish 1104 Prospect Street Indianapolis, IN 46203

Project: SR 58 small structure (CV 058-36-96.15) replacement, 7.09 miles east of SR 446; Des

#1900321

County/Site info: Jackson

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: Formal approval by the Department of Natural Resources under the regulatory

programs administered by the Division of Water is not required for this project.

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. However, Hoosier National

Forest is located within 1/2 mile northeast of the project area.

Fish & 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:

1) Crossing Structure:

For purposes of maintaining fish and wildlife passage through a crossing structure, the Environmental Unit recommends bridges rather than culverts and bottomless culverts rather than box or pipe culverts. Wide culverts are better than narrow culverts, and culverts with shorter through lengths are better than culverts with longer through lengths. If box or pipe culverts are used, the bottoms should be buried a minimum of 6" (or 20% of the culvert height/pipe diameter, whichever is greater up to a maximum of 2') below the stream bed elevation to allow a natural streambed to form within or under the crossing structure. Crossings should: span the entire channel width (a minimum of 1.2 times the OHWM width); maintain the natural stream substrate within the structure; have a minimum openness ratio (height x width / length) of 0.25; and have stream depth, channel width, and water velocities during low-flow conditions that are approximate to those in the natural stream channel.

2) Bank Stabilization & Wildlife Passage:

The new, replacement, or rehabbed structure, and any bank stabilization under the structure, should not create conditions that are less favorable for wildlife passage under the structure compared to current conditions. Minimize the use of riprap and use alternative erosion protection materials whenever possible. Riprap must not be placed in the active thalweg channel or placed in the streambed in a manner that precludes fish or aquatic organism passage (riprap must not be placed above the existing streambed elevation). Where riprap must be used, we recommend placing only enough riprap to

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife

Early Coordination/Environmental Assessment

provide stream bank toe protection, such as from the toe of the bank up to the ordinary high water mark (OHWM). 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 the area and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion.

Where hard armoring is needed, wildlife passage can be facilitated by using a smooth-surfaced material instead of riprap, such as articulated concrete block mats, fabric-formed concrete mats or other similar smooth-surfaced materials as these materials will not impair wildlife movement.

Information about bioengineering techniques can be found at http://www.in.gov/legislative/iac/20120404-IR-312120154NRA.xml.pdf. Also, the following is a USDA/NRCS document that outlines many different bioengineering and other bank stabilization techniques: http://directives.sc.egov.usda.gov/17553.wba.

3) Riparian Habitat:

We recommend a mitigation plan be developed for any unavoidable habitat impacts that will occur. The mitigation site should be located in the floodway preferably as close to the impact site as possible and adjacent to existing forested riparian habitat. The DNR's Habitat Mitigation guidelines (and plant lists) can be found online at: http://iac.iga.in.gov/iac/20200527-IR-312200284NRA.xml.pdf.

Impacts to non-wetland forest of one (1) acre or more should be mitigated at a minimum 2:1 ratio. If less than one acre of non-wetland forest is removed in a rural setting, replacement should be at a 1:1 ratio based on area. Impacts to non-wetland forest under one (1) acre in an urban setting should be mitigated by planting five trees, at least 2 inches in diameter-at-breast height (dbh), for each tree which is removed that is 10" dbh or greater (5:1 mitigation based on the number of large trees) or by using the 1:1 replacement ratio based on area depending on the type of habitat impacted (individual canopy tree removal in an urban streetscape or park-like environment versus removal of habitat supporting a tree canopy, woody understory, and herbaceous layer). Impacts under 0.10 acre in an urban area may still involve the replacement of large diameter trees but typically do not require any additional mitigation or additional plantings beyond seeding and stabilizing disturbed areas. There are exceptions for high quality habitat sites however.

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

- 1. Revegetate all bare and disturbed areas with a mixture of native grasses, sedges, wildflowers, and also native hardwood trees and shrubs if any woody plants are disturbed during construction as soon as possible upon completion. Do not use any varieties of Tall Fescue or other non-native plants, including prohibited invasive species (see 312 IAC 18-3-25).
- 2. Minimize and contain within the project limits inchannel 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 (greater than 5 inches dbh, living or dead, with loose hanging bark, or with cracks, crevices, or cavities) from April 1 through September 30.
- 5. Do not excavate in the low flow area except for the placement of piers, foundations, and riprap, or removal of the old structure.
- 6. Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumparounds.
- 7. Use minimum average 6 inch graded riprap stone extended below the normal water

State of Indiana DEPARTMENT OF NATURAL RESOURCES Division of Fish and Wildlife

Early Coordination/Environmental Assessment

level to provide habitat for aquatic organisms in the voids.

- 8. Plant native hardwood trees along the top of the bank and right-of-way to replace the vegetation destroyed during construction.
- 9. Appropriately designed measures for controlling erosion and sediment must be implemented to prevent sediment from entering the stream or leaving the construction site; maintain these measures until construction is complete and all disturbed areas are stabilized.
- 10. 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 loose-woven / 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:

Christie L. Stanifer, Environ. Coordinator, Fish & Wildlife

Our agency appreciates this opportunity to be of service. Please contact the above staff member at (317) 232-4080 if we can be of further assistance.

Date: January 29, 2021

Christie L. Stanifer
Christie L. Stanifer

Environ. Coordinator

Division of Fish and Wildlife

Subject: RE: Des 1900321 SR 58 Small Structure Replacement Source Water Area

Date: Wednesday, June 9, 2021 at 9:53:35 AM Eastern Daylight Time

From: Turnbow, Alisha
To: Erin Mulryan
CC: Blazey, Samuel

Attachments: image017.png, image018.png, image019.png, image020.png, image021.png, image022.png,

image023.png, image024.png, image025.png, image026.png, image027.png, image028.png, image029.png, image030.png, image031.png, image032.png, image033.png, image034.png, image035.png, image036.png, image046.png, image044.png, image046.png, image044.png, image046.png, image046.png

Hi Erin,

The project Des No 1900321 is located in Salt Creek Services, Inc. and the City of Bloomington Utilities Source Water Assessment Area. The contact for Salt Creek Services, Inc. is Adam Hershberger and they can be reached at ahershberger@bynumfanyo.com and 812-332-8030. The contact for City of Bloomington Utilities is Tyler Steury and they can be reached at steuryt@bloomington.in.gov and 812-361-7774. Let me know what questions you have.

Sincerely,



Alisha Turnbow

Environmental Manager Office of Water Quality Drinking Water Branch, Groundwater Section (317) 233-9158 • aturnbow@idem.IN.gov

Indiana Department of Environmental Management

COVID-19 Resources:

- Indiana State Dept. of Health (ISDH) COVID-19 Call Center: Call 877-826-0011 (available 8:00 am-5:00 pm daily).
- Anthem NurseLine: Call 800-337-4770 or visit the <u>Anthem NurseLine</u> online for a FREE symptom screening. Available to anyone with an Anthem health plan (this includes State of IN employees)
- Anthem Employee Assistance Program (EAP): Available to full-time state employees and their household members regardless of health plan participation. Call 800-223-7723 or visit <u>anthemeap.com</u> (enter State of Indiana) for crisis counseling, help finding child/elder care, legal/financial consultation and much more.

From: Erin Mulryan <emulryan@sjcainc.com>

Sent: Tuesday, June 08, 2021 5:01 PM

To: Turnbow, Alisha <ATurnbow@idem.IN.gov>

Subject: FW: Des 1900321 SR 58 Small Structure Replacement Source Water Area

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Date: Wednesday, June 9, 2021 at 1:07:53 PM Eastern Daylight Time

From: Tyler Steury
To: Erin Mulryan

Attachments: image613069.png, image020234.png, image341040.png, image263223.png,

image324503.png, image421046.png, image034359.png, image141910.png, image147694.png, image051110.png, image887332.png, image990435.png, image077895.png, image637916.png, image966467.png, image398079.png,

image339388.png

We don't have any comments about this project, thank you.

CITY OF BLOOMINGTON

Tyler Steury

Water Quality Coordinator City of Bloomington Utilities steuryt@bloomington.in.gov 812.349.3655 (o) 812.361.7774 (c)

On Wed, Jun 9, 2021 at 12:13 PM Erin Mulryan < emulryan@sjcainc.com> wrote:

Hello, IDEM gave me your contact information for the Salt Creek Services Inc. source water assessment area that is located in this project. Attached is the early coordination packet that was sent in December that has project information. Two small updates to the project scope since this was sent to environmental review agencies include the proposed acquisition of 0.027 acre of temp right of way and the removal of 7.5 feet of the existing 24-inch pipe that outfalls on the north side of the project structure for riprap installation.

Because the project is located in a SWAA, I am contacting you to get input regarding project impacts. Due to the project's tight schedule, your response is kindly requested as soon as possible. If you have any questions regarding the project please feel free to email or call me at 317-525-1192. Thanks!

Erin Mulryan Director of Environmental Services

SJCA Inc.

1104 Prospect Street Indianapolis, IN 46203 Subject: Re: Des 1900321 SR 58 Small Structure Replacement Jackson Co Source Water Area

Date: Wednesday, June 9, 2021 at 1:09:57 PM Eastern Daylight Time

From: Adam Hershberger

To: Erin Mulryan

Attachments: image613069.png, image020234.png, image341040.png, image263223.png,

image324503.png, image421046.png, image034359.png, image141910.png, image147694.png, image051110.png, image887332.png, image990435.png, image077895.png, image637916.png, image966467.png, image398079.png,

image339388.png

Good afternoon Erin,

Thanks for reaching out. None of our clients, including Salt Creek Services, have any facilities in the area of the proposed project.

Thanks,

Adam Hershberger Bynum Fanyo Utilities, Inc. 812-360-8033

From: Erin Mulryan <emulryan@sjcainc.com> Sent: Wednesday, June 9, 2021 12:13 PM

To: Adam Hershberger <ahershberger@bynumfanyo.com>; steuryt@bloomington.in.gov

<steuryt@bloomington.in.gov>

Subject: Des 1900321 SR 58 Small Structure Replacement Jackson Co Source Water Area

Hello, IDEM gave me your contact information for the Salt Creek Services Inc. source water assessment area that is located in this project. Attached is the early coordination packet that was sent in December that has project information. Two small updates to the project scope since this was sent to environmental review agencies include the proposed acquisition of 0.027 acre of temp right of way and the removal of 7.5 feet of the existing 24-inch pipe that outfalls on the north side of the project structure for riprap installation.

Because the project is located in a SWAA, I am contacting you to get input regarding project impacts. Due to the project's tight schedule, your response is kindly requested as soon as possible. If you have any questions regarding the project please feel free to email or call me at 317-525-1192. Thanks!



From: <u>Dye, David</u>
To: <u>Jessica Parrish</u>

Subject: RE: DES 1802993 SR 258 IPaC Record Locator: 067-98396651

Date: Tuesday, February 16, 2021 2:08:20 PM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png image005.png image006.png image007.png image008.png image009.png image010.png image011.png image012.png image013.png image014.png image015.png image016.png image017.png image018.png image019.png image020.png

image021.png

I have reviewed and submitted this determination to USFWS for their 14-day review period.

Let me know if you have any additional questions.

David Dye

Environmental Section Manager

185 Agrico Lane Seymour, IN 47274 Office: (812) 524-3723 Email: ddye@indot.in.gov



From: Jessica Parrish < jparrish@sjcainc.com>
Sent: Wednesday, February 10, 2021 11:01 AM

To: Dye, David <DDYE@indot.IN.gov>

Subject: RE: DES 1802993 SR 258 IPaC Record Locator: 067-98396651

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Hello David,

I made the recommended changes to 1802993. I had filled out 1900321 correctly and they are ready for your review.

Thank you,



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

Phone: (812) 334-4261 Fdx: (812) 334-42/3

http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html

In Reply Refer To: February 16, 2021

Consultation code: 03E12000-2021-I-0484 Event Code: 03E12000-2021-E-03708

Project Name: DES 1900321 SR 58 Small Structure Replacement Project

Subject: Concurrence verification letter for the 'DES 1900321 SR 58 Small Structure

Replacement Project' project under the revised February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the

Indiana Bat and Northern Long-eared Bat.

To whom it may concern:

The U.S. Fish and Wildlife Service (Service) has received your request to verify that the **DES 1900321 SR 58 Small Structure Replacement Project** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Longeared 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, and may affect, but is <u>not likely to adversely affect</u> (NLAA) the endangered Indiana bat (*Myotis sodalis*) and/or the threatened Northern long-eared bat (*Myotis septentrionalis*).

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

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

If the Proposed Action is modified, or new information reveals that it may affect the Indiana bat and/or Northern long-eared bat in a manner or to an extent not considered in the PBO, further review to conclude the requirements of ESA Section 7(a)(2) may be required. If the Proposed Action may affect any other federally-listed or proposed species, and/or any designated critical habitat, additional consultation 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 contact this Service Office.

Project Description

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

Name

DES 1900321 SR 58 Small Structure Replacement Project

Description

This project involves the replacement of structure CV 058-036-096.15 on SR 58, 7.09 miles east of SR 446 in Jackson County, Indiana. This section of SR 58 is classified as a Rural Major Collector. The existing SR 58 consists of two, 9-foot travel lanes with a three (3) foot usable shoulder. The existing structure, CV 058-36-96.15, is a 5.7 foot by 2.7 foot reinforced concrete box. The structure is bordered on either side by heavily wooded or forested land. Guardrail exists on both sides of the structure. The existing headwalls have failed, there is spalling and cracking in the abutments, and scour along the channel bank. Very minimal ditching exists on the north side of the roadway through the curve, which has begun to cause erosion and deterioration of the roadway edge near the structure. Existing right of way is approximately 10 feet from the edge of existing pavement. The preferred alternative for this project is to replace the existing structure with a seven (7) foot by four (4) foot reinforced concrete box. A paved side ditch is proposed along the north side of the roadway to reinforce the roadside ditch and protect the roadway from erosion or undermining. The placement of Riprap at both the inlet and the outlet of the structure is anticipated. The project will be approximately 310 feet in length and require approximately 0.63 acre of right of way. It is anticipated that 0.27 acre of trees will be removed for access to the structure and space for riprap placement. Suitable summer habitat is located adjacent to the project area, with stands of trees with diameter larger than 3 inches, and individual trees within 1000 feet of the structure. A review of the USFWS database on October 7, 2020 by INDOT, did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. A site visit on August 25, 2020 by SJCA, Inc staff found no indication or presence of bats in the structure. Temporary lightning may be used during construction but no permanent lighting is planned. Construction is anticipated to begin Summer of 2022. Temporary lighting may be used but no permanent lighting will be used.

Determination Key Result

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

Qualification Interview

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

[1] See Indiana bat species profile

Automatically answered

Yes

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

[1] See Northern long-eared bat species profile

Automatically answered

Yes

- 3. Which Federal Agency is the lead for the action?
 - A) Federal Highway Administration (FHWA)
- 4. Are *all* project activities limited to non-construction^[1] activities only? (examples of non-construction activities include: bridge/abandoned structure assessments, surveys, planning and technical studies, property inspections, and property sales)
 - [1] Construction refers to activities involving ground disturbance, percussive noise, and/or lighting. No
- 5. Does the project include *any* activities that are **greater than** 300 feet from existing road/rail surfaces^[1]?
 - [1] Road surface is defined as the actively used [e.g. motorized vehicles] driving surface and shoulders [may be pavement, gravel, etc.] and rail surface is defined as the edge of the actively used rail ballast.

No

- 6. Does the project include *any* activities **within** 0.5 miles of a known Indiana bat and/or NLEB hibernaculum^[1]?
 - [1] For the purpose of this consultation, a hibernaculum is a site, most often a cave or mine, where bats hibernate during the winter (see suitable habitat), but could also include bridges and structures if bats are found to be hibernating there during the winter.

No

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

- 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 national consultation FAQs.

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.

- 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.

No

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

Yes

- 14. 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
- 15. 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

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

Yes

- 17. What time of year will the removal or trimming of habitat or trees **within** suitable but **undocumented NLEB** roosting/foraging habitat or travel corridors occur?
 - *B) During the inactive season*
- 18. Will *any* tree trimming or removal occur **within** 100 feet of existing road/rail surfaces? *Yes*
- 19. Will *any* tree trimming or removal occur **between** 100-300 feet of existing road/rail surfaces?

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

Yes

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

No

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

No

23. Does the project include slash pile burning?

No

- 24. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)? *Yes*
- 25. 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*
- 26. 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

Des 1900321_Bat Check IPaC_11.13.2020.pdf https://ecos.fws.gov/ipac/project/FO2ZQB4UURBNDPODEL4LFHHOTU/
 projectDocuments/98395518

- 27. 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

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

No

29. 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

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

31. Is there *any* suitable habitat **within** 1,000 feet of the location(s) where **temporary** lighting will be used?

Yes

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

No

33. 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

34. 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

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

36. 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

37. 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.

38. 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.

39. 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

40. 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

41. 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

42. 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

43. Tree Removal AMM 4

Can the project avoid cutting down/removal of *all* (1) **documented**^[1] Indiana bat or NLEB roosts^[2] (that are still suitable for roosting), (2) trees **within** 0.25 miles of roosts, and (3) documented foraging habitat any time of year?

- [1] The word documented means habitat where bats have actually been captured and/or tracked.
- [2] 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.)

Yes

44. Lighting AMM 1

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

Yes

Project Questionnaire

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

No

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

No

- 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.

0.18

- 4. Please describe the proposed bridge work:
 - Replace existing large culvert that has failed
- 5. Please state the timing of all proposed bridge work:

Summer 2022

6. Please enter the date of the bridge assessment:

8/26/20

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 2

Apply time of year restrictions for tree removal when bats are not likely to be present, or limit tree removal to 10 or fewer trees per project at any time of year within 100 feet of existing road/rail surface and **outside of documented** roosting/foraging habitat or travel corridors; visual emergence survey must be conducted with no bats observed.

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).

TREE REMOVAL AMM 4

Do not remove **documented** Indiana bat or NLEB roosts that are still suitable for roosting, or trees within 0.25 miles of roosts, or

documented foraging habitat any time of year.

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 December 29, 2020. 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 threatened **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>February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects</u>. 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 ESA-listed species other than the Indiana bat or NLEB, or any designated critical habitat, may require additional ESA Section 7 consultation.



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

http://www.fws.gov/midwest/Endangered/section7/s7process/step1.html

In Reply Refer To:

June 03, 2021

Consultation Code: 03E12000-2021-SLI-0484

Event Code: 03E12000-2021-E-06476

Project Name: DES 1900321 SR 58 Small Structure Replacement Project

Subject: Updated 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 attached species list identifies any federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-federal representative) must consult with the Service if they determine their project "may affect" listed species or critical habitat.

Under 50 CFR 402.12(e) (the regulations that implement Section 7 of the Endangered Species Act) the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally. You may verify the list by visiting the ECOS-IPaC website http://ecos.fws.gov/ipac/ at regular intervals during project planning and implementation and completing the same process you used to receive the attached list. As an alternative, you may contact this Ecological Services Field Office for updates.

Please use the species list provided and visit the U.S. Fish and Wildlife Service's Region 3 Section 7 Technical Assistance website at - http://www.fws.gov/midwest/endangered/section7/s7process/index.html. 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.

Although no longer protected under the Endangered Species Act, be aware that bald eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*) and Migratory Bird Treaty Act (16 U.S.C. 703 *et seq*), as are golden eagles. Projects affecting these species may require measures to avoid harming eagles or may require a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at http://www.fws.gov/midwest/midwestbird/EaglePermits/index.html to help you determine if you can avoid impacting eagles or if a permit may be necessary.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

Official Species List

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

This species list is provided by:

Indiana Ecological Services Field Office 620 South Walker Street Bloomington, IN 47403-2121 (812) 334-4261

Project Summary

Consultation Code: 03E12000-2021-SLI-0484 Event Code: 03E12000-2021-E-06476

Project Name: DES 1900321 SR 58 Small Structure Replacement Project

Project Type: BRIDGE CONSTRUCTION / MAINTENANCE

Project Description: This project involves the replacement of structure CV 058-036-096.15 on

SR 58, 7.09 miles east of SR 446 in Jackson County, Indiana. This section of SR 58 is classified as a Rural Major Collector. The existing SR 58 consists of two. 9-foot travel lanes with a three (3) foot usable shoulder. The existing structure, CV 058-36-96.15, is a 5.7 foot by 2.7 foot reinforced concrete box. The structure is bordered on either side by heavily wooded or forested land. Guardrail exists on both sides of the structure. The existing headwalls have failed, there is spalling and cracking in the abutments, and scour along the channel bank. Very minimal ditching exists on the north side of the roadway through the curve, which has begun to cause erosion and deterioration of the roadway edge near the structure. Existing right of way is approximately 10 feet from the edge of existing pavement. The preferred alternative for this project is to replace the existing structure with a seven (7) foot by four (4) foot reinforced concrete box. A paved side ditch is proposed along the north side of the roadway to reinforce the roadside ditch and protect the roadway from erosion or undermining. The placement of Riprap at both the inlet and the outlet of the structure is anticipated. The project will be approximately 310 feet in length and require approximately 0.63 acre of right of way. It is anticipated that 0.27 acre of trees will be removed for access to the structure and space for riprap placement. Suitable summer habitat is located adjacent to the project area, with stands of trees with diameter larger than 3 inches, and individual trees within 1000 feet of the structure. A review of the USFWS database on October 7, 2020 by INDOT, did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. A site visit on August 25, 2020 by SJCA, Inc staff found no indication or presence of bats in the structure. Temporary lightning may be used during construction but no permanent lighting is planned. Construction is anticipated to begin Summer of 2022. Temporary lighting may be used but no permanent lighting will be used.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@38.95866542923466,-86.2649200877737,14z



Counties: Jackson County, Indiana

Endangered Species Act Species

There is a total of 2 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 1 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.

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

Mammals

NAME STATUS

Indiana Bat Myotis sodalis

Endangered

There is **final** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/5949

Northern Long-eared Bat *Myotis septentrionalis*

Threatened

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

 Incidental take of the NLEB is not prohibited here. Federal agencies may consult using the 4(d) rule streamlined process. Transportation projects may consult using the programmatic process. See www.fws.gov/midwest/endangered/mammals/nleb/index.html

Species profile: https://ecos.fws.gov/ecp/species/9045

Critical habitats

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

DES 1900321 Appendix D Section 106 of the DHPA

Scott Henley (Jeffrey Scott)

From: Miller, Shaun (INDOT) <smiller@indot.IN.gov>
Sent: Wednesday, February 3, 2021 11:24 AM
To: Chris Jackson; Scott Henley (Jeffrey Scott)

Cc: Karen Wood; Summers, Terry; Dye, David; Carpenter, Patrick A

Subject: RE: FHWA; INDOT Project; Des. No. 1900321, SR 58 Small Structure Replacement Project, Jackson

County, MPPA Section 1 Form Submission

Attachments: MPPA Determination Form_B-9_Des 1900321.pdf

Hi Chris,

Thank you for submitting the revised archaeological report and project related materials for our review under the MPPA. We have determined that this project falls under Category B-9 of the Minor Projects PA, thus concluding the Section 106 process. The determination form is attached for use in the CE document.

Please submit both electronic and paper copies of the approved archaeology report to DHPA, indicating in the cover letter that the project qualified as a Minor Project and therefore the report is for their records only and no formal review is required under Section 106. In addition, we ask that a copy of the DHPA submittal letter be sent to INDOT CRO c/o Shaun Miller during the time of submission and that the archaeological report be posted to IN SCOPE.

Please keep in mind that if the scope of the project or project limits should change, our office will need to re-examine the information to determine whether the MPPA still applies. Please don't hesitate to contact us should you have any questions or need additional information.

Thanks again,

Shaun Miller INDOT, Cultural Resources Office Archaeology Team Lead (317)416-0876

From: Chris Jackson <cjackson@sjcainc.com> Sent: Monday, February 1, 2021 4:28 PM

To: Miller, Shaun (INDOT) <smiller@indot.IN.gov>; Scott Henley (Jeffrey Scott) <shenley@sjcainc.com> **Cc:** Karen Wood <kwood@sjcainc.com>; Summers, Terry <TSUMMERS@indot.IN.gov>; Dye, David

<DDYE@indot.IN.gov>; Carpenter, Patrick A <PACarpenter@indot.IN.gov>

Subject: RE: FHWA; INDOT Project; Des. No. 1900321, SR 58 Small Structure Replacement Project, Jackson County, MPPA Section 1 Form Submission

**** This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. ****

Shaun----

Attached is the revised report that addresses your comments.

If you have any questions pertaining to the revised report, please let me now.

Thanks.

Date: 2/1/21
Project Designation Number: 1900321
Route Number: SR 58
Project Description: Small Structure Replacement, 7.09 miles east of SR 446
The purpose of this project is to restore structural and hydraulic functionality to the culvert structure. The need for this project is driven by the poor rating of the existing structure (Culvert Rating: 4, poor), due to failed headwalls, spalling and cracking in the abutments, and scour along the channel bank.
The project would replace the existing small structure (5.7-foot x 2.7-foot RCB) with a new structure that meets the necessary structural and hydraulic requirements. The proposed improvements will replace the structure with a 7-foot x 4-foot RCB with 6-inch sump and increase the length from 40 feet to 49 feet. Also, revetment riprap will be placed at the outlet with Class 1 riprap at the inlet. The guardrail will be updated and replaced through the project limits. A Class B paved ditch is proposed to be installed along the north side of the roadway to reinforce the roadside ditch and protect the roadway from further erosion and undermining.
Approximately 0.63 acres are expected to be acquired.
Feature crossed (if applicable):
City/Township: Owen Township County: Jackson County
Information reviewed (please check all that apply): ☐ General project location map ☐ USGS map ☐ Aerial photograph ☐ Interim Report ☐ Written description of project area ☐ General project area photos ☐ Soil survey data ☐ Previously completed historic property reports ☐ Previously completed archaeology reports ☐ Bridge Inspection Information ☐ SHAARD ☐ SHAARD ☐ SHAARD ☐ Streetview Imagery Other (please specify): Bridge Inspection Application System (BIAS); Indiana State Historic Architectural and Archaeological Research Database (SHAARD); Indiana Buildings, Bridges, and Cemeteries Map website; Arc Map GIS; Lake County GIS (accessed via https://portico.mygisonline.com/html5/?viewer=lakeinsurveyor); online street-view imagery; MPPA application (including maps and photographs) sent by Metric Environmental, LLC, dated October 14 th , 2020 and on file at Cultural Resources Office (CRO). Jackson, Christopher 2021 Phase Ia Archaeological Literature Review and Reconnaissance Survey for the Proposed SR 58 Small Structure Replacement over an Unnamed Ditch that is 7.09 miles east of the junction of SR 446 and SR 58 (Des 1900321), Owen Township, Jackson County, Indiana. Report on file, Indiana Department of Transportation, Cultural Resources Office, Indianapolis, In.
Does the project fall under the Minor Projects PA? yes ⊠ no □
If yes, please specify categories and condition(s) (conditions that are applicable are highlighted):
B-9. Installation, replacement, repair, lining, or extension of culverts and other drainage structures under the conditions listed below [BOTH Condition A, which pertains to Archaeological Resources, and Condition

B, which pertains to Above-Ground Resources, must be satisfied]:

Condition A (Archaeological Resources)

One of the two conditions listed below must be met (EITHER Condition i or Condition ii must be satisfied):

- i. Work occurs in previously disturbed soils; *OR*
- 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)

One of the conditions below must be met (EITHER Condition i or Condition ii must be satisfied):

- i. Work does not involve installation of a new culvert and other drainage structure, and there are no impacts to unusual features, including but not limited to historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under one of the following conditions (Condition a, Condition b, or Condition c must be satisfied):
 - a. The structure exhibits no wood, stone, or brick structures or parts therein; OR
 - b. The structure exhibits only modern wood, stone, or brick structures or parts therein; OR
 - c. The structure exhibits non-modern wood, stone, or brick structures or parts therein and the following conditions are met (BOTH Condition 1 AND Condition 2 must be met):
 - 1. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*
 - 2. The structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.
- ii. Work involves the installation of a new culvert and other drainage structures AND/OR there may be impacts to unusual features, including historic brick or stone sidewalks, curbs or curb ramps, stepped or elevated sidewalks and retaining walls, under the following conditions (BOTH Condition a and Condition b must be satisfied):
 - a. Work does not occur adjacent to or within a National Register-listed or National Register-eligible district or individual above-ground resource; *AND*
 - b. The subject structure exhibits one of the characteristics described below (Condition 1, Condition 2 or Condition 3 must be satisfied).
 - 1. The structure exhibits no wood, stone, or brick structures or parts therein; OR
 - 2. The structure exhibits only modern wood, stone, or brick structures or parts therein; OR
 - 3. The structure exhibits non-modern wood, stone, or brick structures or parts therein but lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. Under this condition, a qualified professional (meeting the Secretary of Interior's Professional Qualification standards [48 Federal Register (FR) 44716]) must prepare an analysis and justification that the structure lacks sufficient integrity and/or a context that suggests it might have engineering or historical significance. This documentation must be reviewed and approved by INDOT Cultural Resources Office.

Are there any commitments associated	with this pro	ject? If yes, please explain and include in the
Additional Comments Section below.	yes 🗌	no 🔀

Does the project result in a de minimis impact to a Se	ection 4(f) protec	cted historic resource? If y	es, please
explain in the Additional Comments Section below.	yes \square	no 🔀	

Additional Comments:

Above-ground Resources

With regard to above-ground resources, an INDOT Cultural Resources historian who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61 first performed a desktop review, checking the Indiana Register of Historic Sites and Structures (State Register) and National Register of Historic Places (National Register) lists for Jackson County. No listed resources are present within 0.25 mile of the project area, a distance that would serve as an adequate area of potential effects (APE) given the scope of the project and the surrounding terrain.

The project occurs in a wooded area with no structures close to the small structure. A check of the Indiana Historic Buildings, Bridges, and Cemeteries (IHBBC) map does not show any surveyed properties within a 0.25 mile of the project area. The culvert was not included in the Indiana Historic Bridge Inventory.

Due to masonry features on the culvert, including stone abutments, additional documentation was submitted by a Qualified Professional with SJCA (Henley:SJCA). Please see a below excerpt from that documentation:

CV# 058-036-096.15 is a 5.7-foot x 2.7-foot Masonry Box Culvert with a slab top located along SR 58 in Salt Creek Township, Jackson County, Indiana. The culvert carries an unnamed ditch underneath SR 58 with openings on the north and south sides of the road. The 1932 "State Highway System of Indiana" map shows a county road that follows the general course of SR 58 and is listed as "IMPROVED: Gravel, Stone, etc." The 1940 "State Highway System of Indiana" map shows SR 58 on its current course and it is listed as an "Intermediate Type: Mulch, Stabilized, Road Oil Mat." At some point between 1932 and 1940, the State Highway Commission took responsibility for the road, therefore the culvert was likely built in the mid to late 1930s. This timeframe estimate is bolstered by developments in the Indiana State Highway System during the Great Depression. Counties in Indiana often gave up maintenance of highways and bridges to the state when local dollars became much more needed for local relief efforts during the Great Depression. The growth in state highways coincided with greater federal spending under the New Deal for unemployment relief in construction projects. Because of emphasis on hand labor projects that involved WPA programs, road construction, along with bridge and culvert building, relied on more traditional and locally sourced materials such as stone and timber.1

The Culvert Inspection Reports dated 8/4/2017, 8/14/2019, and 6/12/2020 – accessed via the Bridge Inspection Application System (BIAS) – do not state a construction date nor do they note the specific materials used in the construction of the culvert. The enclosed photographs show stacked stone in the abutments of the culvert and the inspection reports note the abutments are sloping in with spalls and cracks in the abutments. The inspection reports also note the headwalls have failed and any nonmodern wood, stone, or brick structure has lost all architectural integrity. As noted in the inspection reports, the failure of the headwalls is affecting the roadway and the slab is sagging on both ends. While this culvert exhibits non-modern wood, stone, or brick structures or parts therein, it no longer exhibits sufficient architectural integrity due to the continuing deterioration of the structure. It also lacks content that suggests it has engineering or historical significance associated with the time in which it was likely constructed. It cannot be determined that this culvert is associated with the early development of using stone in culvert construction nor is it a good example of its type, method, or construction due to its deteriorated state.

1 Indiana Bridges Historic Context Study, 1830s-1965, INDOT CC No. 050108, report prepared for Indiana Department of Transportation (M & H Architecture Inc., 2007), 82.

Based on the documentation submitted by the consultant and INDOT-CRO's own desktop survey, it does not appear that this small structure would be National Register eligible.

Therefore, based on the available information, as summarized above, no above-ground concerns exist as long as the project scope does not change.

Based on the available information, as summarized above, no above-ground concerns exist.

Archaeological Resources

An INDOT Cultural Resources Office (CRO) archaeologist, who meets the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61, reviewed the archaeology short repot prepared by SJCA (Jackson 2021) and identified no archaeological concerns. The archaeological record check determined that the project area has not been previously investigated for archaeological resources and that no sites have been recorded in or adjacent to its boundaries. A 1.45-acre survey area was investigated through the excavation of nine shovel probes and visual inspection of disturbed or sloped areas at 10m intervals. No archaeological sites were identified, and no further work was recommended. The archaeological report has been reviewed by INDOT Cultural Resources personnel who meet the Secretary of the Interior's Professional Qualification Standards as per 36 CFR Part 61. It is our opinion that the report is acceptable, and we concur with recommendations made by Jackson (2021).

<u>Accidental Discovery</u>: If any archaeological artifacts or human remains are uncovered during construction, demolition, or earth moving activities, construction within 100 feet of the discovery will be stopped, and the INDOT Cultural Resources Office and the Division of Historic Preservation and Archaeology will be notified immediately.

INDOT Cultural Resources staff reviewer(s): Patrick Carpenter and Shaun Miller

***Be sure to attach this form to the National Environmental Policy Act documentation for this project. Also, the NEPA documentation shall reference and include the description of the specific stipulation in the PA that qualifies the project as exempt from further Section 106 review.

DES 1900321

Appendix E

Red Flag Investigation

TOLLYLAND OF TRANSPORT

INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N642 Indianapolis, Indiana 46204 PHONE: (317) 232-5113 FAX: (317) 233-4929 Eric Holcomb, Governor Joe McGuinness, Commissioner

Date: February 17, 2021

To: Site Assessment & Management

Environmental Policy Office - Environmental Services Division

Indiana Department of Transportation 100 N Senate Avenue, Room N642

Indianapolis, IN 46204

From: Ty Gallahan

Seymour District 1104 Prospect St. Indianapolis, Indiana Tgallahan@sjcainc.com

Re: RED FLAG INVESTIGATION

DES 1900321, State Project Small Structure Project

SR 58 over UNT, 7.09 Miles East of SR 446

Jackson County, Indiana

PROJECT DESCRIPTION

Brief Description of Project: The Federal Highway Administration (FWHA) and Indiana Department of Transportation (INDOT) intend to proceed with a small structure project at SR 58 over UNT, approximately 7.09 miles East of SR 446. The existing structure is a 5.7-foot by 2.7-foot reinforced concrete box with a length of 40 feet. The proposed alternative is to replace the structure with a 7-foot by 4-foot Reinforced Concrete Box with a length of 49 feet and a 6-inch sump. Headwalls and wingwalls are anticipated to be placed at the inlet and out of the new structure due to eroding soil conditions located west of the structure. Riprap will be placed east and west of the inlet, at the inlet, and at the outlet of the new structure to protect against erosion. A paved ditch is proposed for the north side of the roadway to reinforce the roadside ditch and to prevent erosion and undermining of the roadway. The existing guardrail will be updated and replaced through the project limits.

0
updated and replaced through the project limits.
Bridge and/or Culvert Project: Yes ⊠ No □ Structure # CV 058-36-096.15
If this is a bridge project, is the bridge Historical? Yes \square No \square , Select \square Non-Select \square
Proposed right of way: Temporary 🗵 # Acres <u>Less Than 0.5 acres</u> , Permanent 🗵 # Acres <u>Over 0.5 acres</u> , Not Applicable
Type of excavation: Excavation will occur for riprap placement, structure replacement, and guardrail replacement. The maximum depth of excavation is anticipated to be approximately 13 feet below grade surface. Maintenance of traffic: Anticipated MOT is a full closure with a detour utilizing SR 446, US 50, and SR 135. Work in waterway: Yes ☒ No ☐ Below ordinary high water mark: Yes ☒ No ☐ State Project: ☒ LPA: ☐ Any other factors influencing recommendations: N/A

INFRASTRUCTURE TABLE AND SUMMARY

Infrastructure			
Religious Facilities	N/A	Recreational Facilities	N/A
Airports ¹	N/A	Pipelines	1
Cemeteries	N/A	Railroads	N/A
Hospitals	N/A	Trails	1
Schools	N/A	Managed Lands	1

Pipelines: One (1) pipeline is located within the 0.5 mile search radius. The nearest segment, associated with Texas Gas Transmission Corp., is located 0.49 mile southeast of the project area. No impact is expected.

Trails: One (1) trail is located within the 0.5 mile search radius. Hickory Ridge Trail 16 (Open) is located 0.36 mile northeast of the project area. No impact is expected.

Managed Lands: One (1) managed land is located within the 0.5 mile search radius. Hoosier National Forest is located 0.24 mile northeast of the project area. No impact is expected.

WATER RESOURCES TABLE AND SUMMARY

Water Resources			
NWI - Points	1	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	11
Canal Structures – Historic	N/A	Lakes	4
NPS NRI Listed	N/A	Floodplain - DFIRM	N/A
NWI-Lines	N/A	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	5	Sinkhole Areas	N/A
Rivers and Streams	5	Sinking-Stream Basins	N/A

Explanation:

NWI-Point: One (1) NWI-Point is located within the 0.5 mile search radius. The nearest NWI-Point is located 0.35 mile to the northwest of the project area. No impact is expected.

IDEM 303d Listed Streams and Lakes (Impaired): Five (5) impaired stream segments are located within the 0.5 mile search radius. The nearest IDEM 303d Listed Stream is located 0.10 mile northeast of the project area. No impact is expected.

Rivers and Streams: Five (5) stream segments are located within the 0.5 mile search radius. The nearest stream is located 0.10 mile northeast of the project area. No impact is expected.

NWI-Wetlands: Eleven (11) NWI-wetlands are located within the 0.5 mile search radius. The nearest mapped wetland is located 0.25 mile northeast of the project area. No impact is expected.

Lakes: Four (4) lakes are located within the 0.5 mile search radius. The nearest mapped lake is located 0.28 mile southwest of the project area. No impact is expected.

Due to the presence of a structure, it is likely that additional water resources, such as unnamed tributaries, regulated drains, wetlands, and roadside ditches are located in the project area. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration			
Petroleum Wells	N/A	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

Explanation: No mining and mineral resources were identified within the 0.5 mile search radius.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns			
Superfund	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	N/A	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	N/A	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	N/A	Confined Feeding Operations (CFO)	N/A
Voluntary Remediation Program	N/A	Brownfields	N/A
Construction Demolition Waste	N/A	Institutional Controls	N/A
Solid Waste Landfill	N/A	NPDES Facilities	N/A
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	N/A
Leaking Underground Storage (LUST) Sites	N/A	Notice of Contamination Sites	N/A

Explanation: No hazardous material concerns were identified within the 0.5 mile search radius.

ECOLOGICAL INFORMATION SUMMARY

The Jackson County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Services did not indicate the presence of ETR species within the 0.5 mile search radius. Coordination with USFWS and IDNR will occur.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The project area is located in a rural area surrounded by woods. The February 1, 2021 inspection report for CV 058-036-096.15 states that no evidence of bats was seen or heard in the culvert. The range-wide programmatic consultation for the Indiana bat and Northern long-eared bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects."

RECOMMENDATIONS SECTION

INFRASTRUCTURE: N/A

MINING AND MINERAL: N/A

HAZARDOUS MATERIALS CONCERNS: N/A

WATER RESOURCES: Due to the presence of a structure, it is likely that additional water resources, such as unnamed tributaries, regulated drains, wetlands, and roadside ditches are located in the project area. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology Water Permitting will occur.

ECOLOGICAL INFORMATION: Coordination with USFWS and IDNR will occur. The range-wide programmatic consultation for the Indiana bat and Northern Long-eared bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects."

INDOT Environmental Services concurrence:

Marlene Mathas Digitally signed by Marlene Mathas Date: 2021.02.22 11:27:25 -05'00' (Signature)

Prepared by: Ty Gallahan GIS Admin SJCA, Inc.

Graphics:

SITE LOCATION: YES

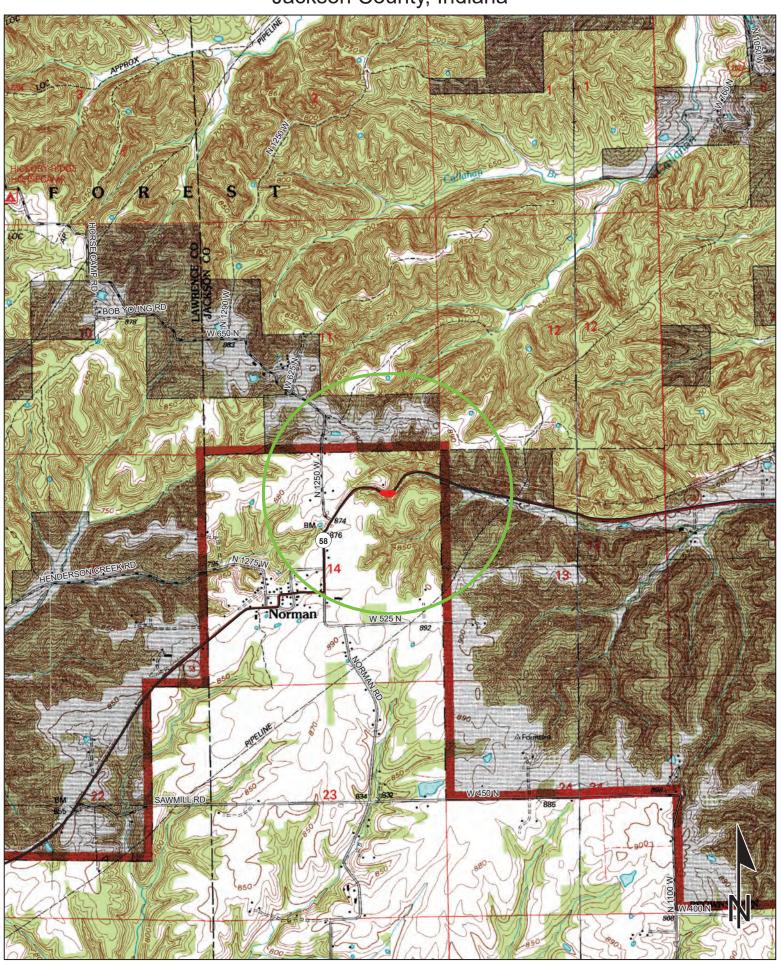
INFRASTRUCTURE: YES

WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

Red Flag Investigation - Site Location SR 58 over UNT, 7.09 Miles East of SR 446 Des. No. 1900321, Small Structure Project Jackson County, Indiana



Sources: 0.35 0.17 0 0

Non Orthophotography

Data - Obtained from the State of Indiana Geographical Information Office Library

Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org) 0.35 Miles

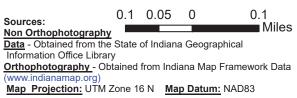
Map Projection: UTM Zone 16 N Map Datum: NAD83

This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

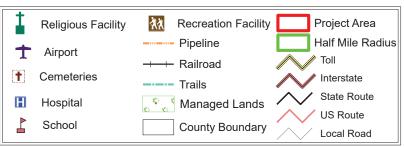
NORMAN QUADRANGLE **INDIANA** 7.5 MINUTE SERIES (TOPOGRAPHIC)

Red Flag Investigation - Infrastructure SR 58 over UNT, 7.09 Miles East of SR 446 Des. No. 1900321, Small Structure Project Jackson County, Indiana

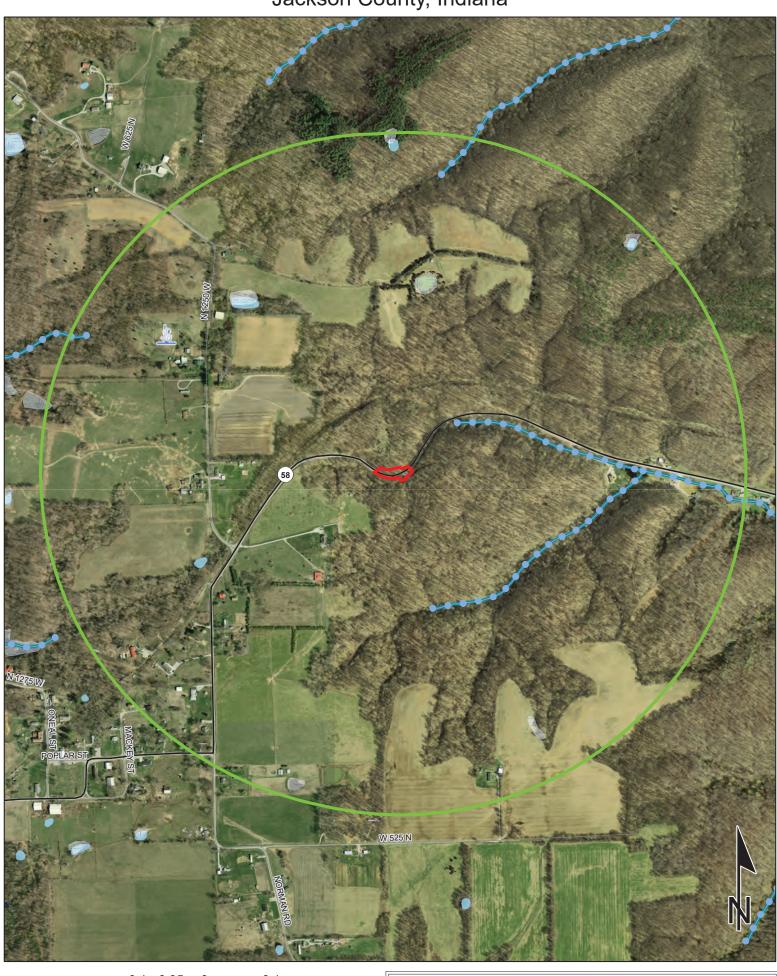


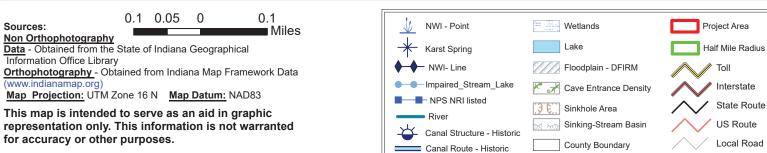


This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.



Red Flag Investigation - Water Resources SR 58 over UNT, 7.09 Miles East of SR 446 Des. No. 1900321, Small Structure Project Jackson County, Indiana





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Indiana County Endangered, Threatened and Rare Species List County: Jackson



Species Name	Common Name	FED	STATE	GRANK	SRANK
Mollusk: Bivalvia (Mussels)					
Cyprogenia stegaria	Eastern Fanshell Pearlymussel	LE	SE	G1Q	S1
Epioblasma torulosa	Tubercled Blossom	LE	SX	GX	SX
Lampsilis fasciola	Wavyrayed Lampmussel		SSC	G5	S3
Obovaria subrotunda	Round Hickorynut	C	SE	G4	<u>S1</u>
Pleurobema clava	Clubshell	LE	SE	G1G2	S1
Pleurobema cordatum	Ohio Pigtoe		SSC	G4	S2
Pleurobema plenum	Rough Pigtoe	LE	SE	G1	S1
Pleurobema rubrum	Pyramid Pigtoe		SX	G2G3	SX
Ptychobranchus fasciolaris	Kidneyshell		SSC	G4G5	S2
Theliderma cylindrica	Rabbitsfoot	LT	SE	G3G4	S1
Villosa lienosa	Little Spectaclecase		SSC	G5	S3
Insect: Lepidoptera (Butterflies & Moths) Pieris virginiensis	West Virginia white		ST	G3?	S3
Insect: Odonata (Dragonflies & Damselflies)					
Epitheca canis	Beaverpond Baskettail		SE	G5	S1
Rhionaeschna mutata	Spatterdock Darner		ST	G4	S2S3
F ish Notropis ariommus	Popeye Shiner			G3	SX
- Amphibian	1 7				
Acris blanchardi	Blanchard's Cricket Frog		SSC	G5	S4
Hemidactylium scutatum	Four-toed Salamander		SSC	G5	S2
Reptile					
Clonophis kirtlandii	Kirtland's Snake		SE	G2	S2
Crotalus horridus	Timber Rattlesnake		SE	G4	S2
Kinosternon subrubrum subrubrum	Eastern Mud Turtle		SE	G5T5	S2
Macrochelys temminckii	Alligator Snapping Turtle	C	SE	G3G4	SH
Nerodia erythrogaster neglecta	Copperbelly Water Snake	PS:LT	SE	G5T3	S2
Opheodrys aestivus	Rough Green Snake		SSC	G5	S3
Terrapene carolina carolina	Eastern Box Turtle		SSC	G5T5	S3
Bird			~	0.5	CAD
Accipiter striatus	Sharp-shinned Hawk		SSC	G5	S2B
Aimophila aestivalis	Bachman's Sparrow			G3	SXB
Ammodramus henslowii	Henslow's Sparrow		SE	G4	S3B
Ardea alba	Great Egret		SSC	G5	S1B
B <mark>artramia longicauda</mark>	Upland Sandpiper		SE	G5	S3B
Buteo platypterus	Broad-winged Hawk		SSC	G5	S3B
Certhia americana	Brown Creeper			G5	S2B
Cistothorus palustris	Marsh Wren		SE	G5	S3B

Indiana Natural Heritage Data Center

Division of Nature Preserves

Indiana Department of Natural Resources

This data is not the result of comprehensive county surveys.

Fed:

State:

LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting

SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern;

SX = state extirpated; SG = state significant; WL = watch list

GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long-term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank

SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long-term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked

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Indiana County Endangered, Threatened and Rare Species List County: Jackson



Cistothorus platensis	Sedge Wren		SE	G5	S3B
Haliaeetus leucocephalus	Bald Eagle		SSC	G5	S2
Helmitheros vermivorus	Worm-eating Warbler		SSC	G5	S3B
cobrychus exilis	Least Bittern		SE	G4G5	S3B
anius ludovicianus	Loggerhead Shrike		SE	G4	S3B
Iniotilta varia	Black-and-white Warbler		SSC	G5	S1S2B
yctanassa violacea	Yellow-crowned Night-heron		SE	G5	S2B
andion haliaetus	Osprey		SSC	G5	S1B
allus elegans	King Rail		SE	G4	S1B
etophaga cerulea	Cerulean Warbler		SE	G4	S3B
etophaga citrina	Hooded Warbler		SSC	G5	S3B
vto alba	Barn Owl		SE	G5	S2
Iammal					
fyotis sodalis	Indiana Bat	LE	SE	G2	S1
ycticeius humeralis	Evening Bat		SE	G5	S1
prex hoyi	Pygmy Shrew		SSC	G5	S2
ixidea taxus	American Badger		SSC	G5	S2
ascular Plant	_				
calypha deamii	Deam's two-seeded mercury		WL	G4?	S3
arex atlantica ssp. atlantica	Atlantic sedge		SE	G5T5	S1
arex seorsa	weak stellate sedge		ST	G5	S3
arex straminea	straw sedge		ST	G5	S2
helone obliqua var. speciosa	rose turtlehead		WL	G4T3	S3
yperus acuminatus	short-point flatsedge		WL	G5	S3
ichanthelium bicknellii	panic-grass		SE	G4?Q	S1
ydrastis canadensis	golden seal		WL	G3G4	S3
iglans cinerea	butternut		ST	G3	S2
agnolia acuminata	cucumber magnolia		SE	G5	S1
ikania scandens	climbing hempweed		SE	G5	S1
ajas gracillima	thread-like naiad		ST	G5?	S3
anax quinquefolius	American ginseng		WL	G3G4	S3
latanthera flava var. flava	southern rein orchid		SE	G4?T4?Q	S1
oa paludigena	bog bluegrass		ST	G3G4	S3
ubus odoratus	purple flowering raspberry		ST	G5	S2
ruga canadensis	eastern hemlock		WL	G5	S3
igh Quality Natural Community					
arrens - bedrock siltstone	Siltstone Glade		SG	G2	S2
orest - floodplain mesic	Mesic Floodplain Forest		SG	G3?	S1
orest - floodplain wet	Wet Floodplain Forest		SG	G3?	S3
orest - floodplain wet-mesic	Wet-mesic Floodplain Forest		SG	G3?	S3

surveys.

This data is not the result of comprehensive county GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long-term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank

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Indiana County Endangered, Threatened and Rare Species List County: Jackson



Species Name	Common Name	FED	STATE	GRANK	SRANK
Forest - upland dry-mesic Highland Rim	Highland Rim Dry-mesic Upland Forest		SG	GNR	S3
Forest - upland mesic Bluegrass	Bluegrass Mesic Upland Forest		SG	GNR	S3
Forest - upland mesic Highland Rim	Highland Rim Mesic Upland Forest		SG	GNR	S3
Wetland - seep acid	Acid Seep		SG	GU	S1
Other Significant Feature Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade	Water Fall and Cascade			GNR	SNR

Indiana Natural Heritage Data Center Division of Nature Preserves Indiana Department of Natural Resource

Indiana Department of Natural Resources
This data is not the result of comprehensive court

This data is not the result of comprehensive county surveys.

State:

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting

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unranked Appendix E - 10