nty	Fountain	Route	SR 234	Des. No	1600886
CA	TEGORICAL EXC	CLUSION / EN	nvironmental Doci IVIRONMEN OJECT INFORMAT	TAL ASSESSM	ENT FORM
Road	d Number/County:	State Route (SF	R) 234 / Fountain Co	ounty	
Desig	gnation Number:	1600886			
Proj	ect Description/Termin	to Panther Cru Highway (US) 4 approximately	eek, located appro 41. The project lim 410 feet east and a	et on SR 234 over an un eximately 1.56 miles e eits on SR 234 extend a approximately 245 feet ength of approximately	east of United States along the roadway for west from the center
	ompleting this form, I conclude approve if Level 4 CE):	e that this project quali	fies for the following	type of Categorical Exclu	sion (FHWA must
✓	Categorical Exclusion Level 2 - table 1, CE Lo				
	Categorical Exclusion Level 3 - table 1, CE Le				
	Categorical Exclusion Level 4 - table 1, CE Le				ical Exclusion Manual
	Environmental Assess is necessary to determine				
	or documents prepared by or for E		vision, it is not necessary	y for the ESM of the district is	n which the project is
Appro	val				
PP	ESM Signature	Date	ES Signatur	e	Date
	F	HWA Signature		Date	
	e for Public Involvement		RE	B 10-22	-2020
	Initials	Date	ES Initials	Date	
Certifi	ication of Public Involvem				
Note: D	Oo not approve until after Secti		ic Involvement	Date	ave been satisfied
INDO	Γ ESD/District	on 100 public involver		Date:	ave seen sanshea.
Name a	and Organization of CE/EA Prepa	rer: Stephanie Verhoff	/ RQAW Corporation		
	e 1 of 23				
ject nar	ne:	SR 234 Smal	l Structure Replaceme	ent Project Date	: October 21, 202

County	Fountain	Route	SR 234	Des. No	1600886
		<u>Part I - PUE</u>	BLIC INVOLVE	<u>MENT</u>	
	l action requires some level of pu				ties throughout the project
If N	es the project have a hist lo, then: Opportunity for a Public H		ınder the Historic Bridge	es PA*?	No ✓
	ring is required for all his D, and the ACHP.	toric bridges processed	d under the Historic Brid	dges Programmatic Ag	reement between INDOT,
	t public involvement activecial purpose meetings, no Notice of Entry letters existing INDOT right-of	ewspaper articles, etc., were not mailed to ac	have occurred for this	project.	ents (i.e. notice of entry),
	Because the project que required to be published		ojects Programmatic A	greement (MPPA), a le	egal notice was not
	Transportation (INDOT opportunity to submit) Public Involvement N comment and/or requ gent upon the release	uirements described in lanual which requires the lest a public hearing. The of this document for purents are fulfilled.	he project sponsor to Therefore, a legal noti	offer the public an ce will appear in a
	ntroversy on Environmo oject involve substantial c		community and/or natur	Yes al resource	No 🗸
Remarks:	Currently, there is no resources.	substantial public co	ntroversy concerning in	mpacts to the commu	unity or to natural
Sponsor of	II - General Pro f the Project:	INDOT	tion, Descriptio	on, and Desig	n Information Crawfordsville
Local Nam	e of the Facility:	SR 234			
_	ource (mark all that apply selected, please identify		tate ✓ Local	Other*	
	E AND NEED:			(masses and masses and	NOT be discussed
	transportation problem th . (Refer to the CE Manu			ramc problem snould i	VOT be discussed
	for the project is due to spection Report dated N		_		
This is p Project r	age 2 of 23 name:	SR 234 Sm	nall Structure Replacemen	t Project Date	: October 21, 2020

County	Founta	in	Route _	SR 234		Des. No.	1600886	
			isting structure is			oping have seve	ere spalling, and	the
south end of	the structure	e has sever	e spalling and stee	l beams are expos	ed.			
		-	vide a structure w r crossing at this lo		ting of at leas	t 7 ("good cond	dition") or bette	r, in
PROJECT I	DESCRIPTI	ON (PRE	FERRED ALTER	NATIVE):				
County: Fo	untain		Munic	ipality: Not app	licable (N/A)			
Limits of Prop	osed Work:	east of U feet east	ect is along SR 234 IS 41. The project and approximatel nately 655 feet.	limits on SR 234	extend along	the roadway fo	r approximately	410
Total Work Le	ength:	0.12	_ Mile(s)	Total Wo	rk Area:	1.25 Acre	e(s)	
							Yes¹	No
If yes, when o	lid the FHW <i>A</i> S <i>is required;</i>	s grant a co	/ Interchange Justi anditional approval the approved CE/E	for this project?	, .	I	Date: th a request for f	√ final
			ting conditions, pro					
			ion of logical termir if these are issues.	ni. Discuss any ma	ajor issues for	the project and	how the project	will
The INDOT Of structure replacement of the INDOT of the In	Crawfordsville lacement prointher Creek hip, Sections	e District a oject in Fo , approxim 28 and 33	and the Federal H untain County, Indi ately 1.56 miles ea of Township 18 No	iana (Des. Number ast of US 41 in Fou	1600886). Th Intain County	ne project is loc , Indiana. The p	ated on SR 234 o project is within	over Mill
10-foot wide miles per hou structure is	travel lanes ir (mph). The a 24-foot lo	(one eastb existing st ng, 12.7-fo	ect area, SR 234 is ound and one wes ructure, CV 234-02 oot span by 6.8-fo al properties and v	tbound), 1-foot wi 23-18.14, carries S oot rise concrete	de paved sho R 234 over an box culvert.	ulders, and a le UNT to Panthe Surrounding la	gal speed limit o r Creek. The exis	of 55 sting
INDOT has a	lready purch	ased appr	ng SR 234 varies fro oximately 0.56 aco right-of-way will b	re of permanent i	right-of-way f	or construction		
approximate mile). The pr culvert. The protection. N existing SR 2	y 410 feet e oject will inc new structui ew W-beam 34 pavemen	ast from the state of the state	will extend appr ne center of the st sing the existing str sumped 1 foot wit vill be installed on he project area wil tely 320 feet to th	ructure, for a tota ucture with a 37-fo h class 1 riprap p SR 234 directly abo l be replaced at fo	oot long, 13-fo laced at the sove the new sove the new sull depth. The	th of approxim bot span by 7-fo structure inlet a tructure. Appro e limits of the f	ately 655 feet (0 oot rise concrete and outlet for so eximately 475 fee full depth pavem	0.12 box cour et of nent
This is pag								
Project nan	ne:		SR 234	Small Structure Rep	lacement Proje	ect Date	e: October 2:	1, 20

County	Fountain	Route	SR 234	Des. No.	16008	86
approximately include two 2 installed on t temporary co small drainage pipe will be reproject design	y 90 feet in each dired 11-foot wide travel la he south side of the restruction entrance we pipe is located immedemoved and replaced in plans. The termini fewell as the required dispanse the south process of the sequired dispanse the required	tion. The proposed nes with 3-foot wide roadway to the east of ill be constructed of diately north/northwe with 10-feet of a 15- or the project are lo	es will be milled and or roadway cross-section paved shoulders. A tof the structure in orderushed stone and will st of the existing struction diameter pipe. Segical because they end throm the structure, the	n of SR 234, within emporary construct er to access the ex- be removed follow ure. Approximately the Appendix B, pag compass the limits	the project and the project and the constructors are the constructors and the constructors are the constructors ar	rea, will will be re. The ion. A existing for the ng small
route traffic a page B-11). Re the proposed	llong US 41, SR 32, and efer to the <i>Maintenand</i> MOT. The estimated p three additional proje	I SR 341. Access to all ce of Traffic (MOT) Du project cost is \$2,983,0	of the road at the struction properties will be main ring Construction section 343 (fiscal year [FY] 202 signation Number 1601	ntained during con on of this documen 11), which is include	struction (Appo t for further de ed in Contract I	endix B, etails on Number
			of the project via provide continued vehicular cr	_		-
	ERNATIVES CONS		Alternative and an expla			
which carries right-of-way, improvements structural into consideration	Iternative: This alternative: This alternative: SR 234 over an UNT to involve any cost, results are made to the exist egrity of the culvert as since it would not medically and the culvert are since it would not medically and the culvert are since it would not medically and the culvert are since it would not medically and the culvert are since it would not medically and the culvert are since it would not medically and the culvert are since it would not medically are since it would not medica	Panther Creek. This a It in disruption to tra ing small structure, th and potential failure et the purpose and ne	e any improvements to Iternative would not re- veling motorists, or im e structure would cont of the crossing. This red of the project.	quire additional pe pact the surroundi inue to deteriorate	rmanent or ter ing environmer resulting in de	nporary nt. If no creased
	rnatives were consider			Mayle all that analysis		
It would not co It would not co It would not co It would not co	orrect existing capacity orrect existing safety has breed the existing road orrect existing deteriora in serious impacts to the	deficiencies; izards; way geometric deficien ted conditions and ma	oracticable because (Ancies; ncies; nintenance problems; or digeneral welfare of the		✓ ✓	
This is page Project nam		SR 234 Sm	iall Structure Replacemen	t Project D	pate: Octob	er 21, 2020

County Fountain	Route	SR 234	Des. No	1600886
ROADWAY CHARACTER	₹:			
SR 234 Functional Classification: Current ADT: Design Hour Volume (DHV): Designed Speed (mph):	Rural Major Collector 447 VPD (202 53 Truck Perce 55 Legal Speed	entage (%)10.71	T: <u>516 V</u> 	PD (2040)
	Existing	Proposed		
Number of Lanes:	2 10-foot wide travel lanes	2 11-foot wide	travel lanes	
Type of Lanes:	10-100t wide traveriaries	11-100t wide	traver laries	
Pavement Width: Shoulder Width: Median Width: Sidewalk Width:	22 ft. ft. ft. o ft. ft.	28 3 0	ft. ft. ft. ft.	
Setting: Topography:	Urban Level	Suburban ✓ Rolling	✓ Rural Hilly	
DESIGN CRITERIA FOR B	RIDGES:			
Structure/NBI Number(s):	CV 234-023-18.14	Sufficiency Rating: 3	(Appendix	ion Report, dated May 13, 2020 I, pages I-2 to I-5) ource of Information)
	Existing	Proposed		
Bridge Type:	24-foot long, 13-foot span by 7-foot rise precast concrete box culvert	37-foot long, 13-foot sp foot rise reinforced box		
Number of Spans:	1	1		
Weight Restrictions:	N/A ton	N/A ton		
Height Restrictions:	N/A ft.	N/A ft.		
Curb to Curb Width:	22	28 ft.		
Outside to Outside Width:	24	37 ft.		
Shoulder Width: Length of Channel Work:	1	3 ft. 90 ft.		
Longer of Oriented Work.		30 16.		
Remarks: Structure Numbunder SR 234. The existing corculvert. The st scour protectio	per CV 234-023-18.14 is a proper CV 234-023-1	ecast concrete box culve 24-foot long, 12.7-foot s placed with a 37-foot lon oot with class 1 riprap p pproximately 90 linear fe	rt that transports an U span by 6.8-foot rise c g, 13-foot span by 7-fo laced at the structure set (0.04 acre) of the U	oncrete box culvert. bot rise concrete box inlet and outlet for NT to Panther Creek
This is page 5 of 23 Project name:	SR 23/15	Small Structure Replacemen	nt Project Date	e: October 21, 2020

MAINTENAN s a temporary is a temporary in the project Provisions we Provisions we provisions we make the provisions we provide the provisions where the provisions we provide the provisions we provide the provisions we provide the provisions we provide the provide the provisions we provide the provisions where the provisions we provide the provisions which the provisions we provide the p	small drainage pipe is if the existing pipe will -12). CE OF TRAFFIC (Morning proposed? roadway proposed? involve the use of a detail be made for access.	be removed and repla	iced with 10-f			
s a temporary b s a temporary i Vill the project Provisions w Provisions w	oridge proposed? roadway proposed? involve the use of a det	·	TRUCTION:		Yes	No
s a temporary i Vill the project Provisions w Provisions w	roadway proposed? involve the use of a det	our or require a ramp			Yes	No
Vill the proposes there substar	rill be made for through- rill be made to accomm ed MOT substantially ch ntial controversy associ- ne MOT will involve th	by local traffic and so partraffic dependent busing both traffic dependent busing both the any local special ange the environment ated with the proposed	posted. nesses. I events or fes cal consequend I method for M	tivals. ces of the action? OT	✓ ✓ ✓	\frac{1}{\sqrt{1}}
m m TI er p	nonths. The detour will niles. Access to all propone road closure will progress; how roject completion.	route traffic along US erties would be maint ose a temporary incovever, no significant	41, SR 32, an ained during convenience to	d SR 341 for a total le onstruction (Appendix traveling motorists, i	ngth of approxim R B, page B-11).	ately 2.75 ouses and
Engineering:	\$ 18,000 (2020)	Right-of-Way:	\$ 21,925	(2020) Construction	on: \$ <u>710,000</u>	(2021
Anticipated Sta	rt Date of Construction:	Spring of 2021				
	corporated into STIP Ye n an MPO Area?	H-1 *STIP listing incl No. B-39957)		nendment 20-01 (RW) cost for bundled proje		-
If yes,						
Name of MPC	N/A					
Name of MPC						•

County	Fountain	_ Route	SR 234	Des. No	1600886
RIGHT OF V	WAY:				

	Amount (acres)			
Land Use Impacts	Permanent	Temporary		
Residential	0.5	0		
Agricultural	0.05	0		
Forest	0	0		
Wetlands	0.01	0		
TOTAL	0.56	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 or reacquisition, either known or suspected, and there impacts on the environmental analysis should be discussed.

Remarks

The existing right-of-way along SR 234 varies from approximately 38 feet to 55 feet from the roadway centerline (Appendix B, pages B-9 to B-16). INDOT has already purchased approximately 0.56 acre of permanent right-of-way for construction of the project. The acquisition by INDOT followed the Uniform Act and did not predetermine the selection of alternatives. Of the already purchased right-of-way, approximately 0.5 acre consisted of residential land (maintained lawn and trees), 0.05 acre consisted of agricultural land (row crops and agricultural access points), and 0.01 acre consisted of wetland. The project will not require any additional permanent or temporary right-of-way along SR 234.

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

<u>Part III – Identification and Evaluation of Impacts of the Proposed</u> <u>Action</u>

Presence | Impacts | Yes | No | Streams, Rivers, Watercourses & Jurisdictional Ditches | ✓ | ✓ | ✓ | Federal Wild and Scenic Rivers | ✓ | ✓ | ✓ | State Natural, Scenic or Recreational Rivers | ✓ | ✓ | ✓ | Nationwide Rivers Inventory (NRI) listed | ✓ | ✓ | ✓ | Outstanding Rivers List for Indiana | ✓ | ✓ | ✓ | Navigable Waterways | ✓ | ✓ | ✓ | ✓ | Per a desktop review, field visits conducted on July 10, 2017 by INDOT Crawfordsville District and August

Per a desktop review, field visits conducted on July 10, 2017 by INDOT Crawfordsville District and August 05, 2020 by RQAW, an aerial photograph of the project area (Appendix B, page B-3), the USGS topographic map (Appendix B, page B-2), and the water resources map in the Red Flag Investigation (RFI) report (Appendix E, page E-6), one stream segment, Panther Creek, is mapped within 0.5 mile of the project area. Panther Creek is located approximately 0.08 mile southwest of the project area. There is one stream, an UNT to Panther Creek (unmapped), present within the project area.

A Waters of the U.S. Determination Report was approved by INDOT on July 28, 2017 (Appendix F, pages F-1 to F-22). It was determined that one stream, an UNT to Panther Creek, is located within the project area. Per

This is page 7 of 23 Project name:	SR 234 Small Structure Replacement Project	Date:	October 21, 2020
•	Form Version: June 2013 Attachment 2		

		Indiana Depar	tment of Transp	ortation			
County	Fountain	Route	SR 234	Des. No	1600886		
	of the United States).	· · · · · · · · · · · · · · · · · · ·	dside ditches were not	be considered jurisdic observed within the pr ling jurisdiction.	·		
	approximately 0.129 had an OHWM width which flows into Suga (TNW). Based on thes States). UNT to Pant	square mile (Appendix of 13-feet and depth r Mill Creek, which eve e criteria, this stream is her Creek is not listed anther Creek is not lis	F, page F-9). The stre of 2-feet. The UNT to ntually flows into Suga s likely to be considere I as a Federal Wild ar	page B-3). The upstrea am exhibited a defined o Panther Creek flows in r Creek, a traditionally red d jurisdictional (i.e. a Wand Scenic River or on the l, Scenic and Recreation	I bed and bank and into Panther Creek, navigable waterway /aters of the United the National Rivers		
	The project will permanently impact approximately 90 linear feet (0.04 acre) of UNT to Panther Creek below the OHWM to replace the existing structure and install riprap. Because new stream impacts will not exceed 300 linear feet, stream mitigation will not be required. A USACE Section 404 Permit and Indiana Department of Environmental Management (IDEM) Section 401 Water Quality Certification will be required due to these impacts.						
	Early coordination letters were sent to the Indiana Department of Natural Resources (IDNR) Division of Fish and Wildlife, USACE, and IDEM on August 25, 2020 (Appendix C, pages C-1 to C-3). The USACE did not respond to the early coordination letter. An automated response was received from IDEM on August 25, 2020; however, the response did not contain project specific comments (Appendix C, pages C-4 to C-12). The IDNR Division of Fish and Wildlife responded to early coordination efforts on September 23, 2020 and recommended implementing erosion and sediment control measures and stream bank stabilization measures, proper use of riprap, and time restrictions for work within waterways (Appendix C, pages C-16 to C-18). All applicable agency recommendations are included in the <i>Environmental Commitments</i> section of this Categorical Exclusion (CE) document.						
Reservoirs Lakes Farm Ponds Detention B		S	<u>Presen</u>	Yes No			
Remarks:	2020 by RQAW, an a map in the RFI repor nearest lake is mapp the lake due to distan within or adjacent to	erial photograph of the t (Appendix E, page E- ed approximately 0.41 ce from the construction the project area.	e project area (Appen 6), one lake is mappe mile northwest of the on limits of the project.	DOT Crawfordsville Dis dix B, page B-3), and t d within 0.5 mile of th e project area. The pro There are no other sur	he water resources e project area. The ject will not impact face waters present		
	to F-22). According to	•	S. Determination Repor	OT on July 28, 2017 (Aprt, no other surface warding jurisdiction.			
This is pa	age 8 of 23	SR 234 Sn	nall Structure Replaceme	nt Project Date	e: October 21, 2020		

	Fountain	Route	SR 234	Des. No	1600886
20 au pi to	O20 (Appendix C, putomated response roject specific common early coordination	pages C-1 to C-3). The was received from II nents (Appendix C, paon efforts on Septem	ne USACE did not res DEM on August 25, 20 ges C-4 to C-12). The I mber 23, 2020; how	and Wildlife, USACE, and I spond to the early coord 20; however, the respor DNR Division of Fish and ever, the response did endix C, pages C-16 to C-1	dination letter. An use did not contain Wildlife responded not contain any
/etlands			<u>Prese</u>	nce Impact Yes ✓	s No
Total wetland	area: 0.011	_ acre(s) Tota	al wetland area impact	ed: 0.011 acre(s)
f a determinat	ion has not been m	ade for non-isolated/is	olated wetlands, fill in t	the total wetland area imp	acted above.)
Wetland No.	Classification	Total Size (Acres)	Impacted Acres	Comme	
Wetland A	Palustrine emergent (PEM)	0.011	0.011	Located in the northea existing structure ar considered jurisdictional United States). The wetla	nd is likely to be (i.e. a Waters of the
Notlands (Ma	k all that apply)		<u>Documentation</u>	ES Appr	oval Dates
/etland Deterr /etland Deline	nination	ition	✓ ✓		28, 2017 28, 2017
ould result ir Substantia Substantia Unique enç Substantia	n (Mark all that appl I adverse impacts to Ily increased projec gineering, traffic, ma	y and explain): o adjacent homes, bus i costs; nintenance, or safety p onomic, or environme	iness or other improve	ole because such avoida	
leasures to av	oid, minimize, and i	mitigate wetland impa	cts need to be discusse	ed in the remarks box.	
	data/mapper.html)	on September 14, 20 ces map in the RFI re	20 by RQAW, the USG port (Appendix E, pag	ne mapper (https://www.ss.topographic map (Appe E-6), no NWI wetlands	endix B, page B-2), are mapped within
ar O. is th	5 mile of the project located within the ne project by INDO etermination Report	project area (Wetland DT on July 14, 2017	A). A <i>Waters of the U</i> (Appendix F, pages to be considered juris	.S. Determination Report F-1 to F-22). Per the V dictional (i.e. a Waters of	was completed for Vaters of the U.S.

	Indiana Department of Transportation						
County	Fountain	Route	SR 234	Des. No	1600886		
	Region Version 2.0 (2 for vegetation and did of the criteria to be quadrant of the sma hydrology was preser considered within a version of the smann	010). Data point A2 wad not exhibit any indicated within a wall structure due to hyper at this data point; the vetland. Based on thes d States). Wetland A is	as taken outside Wetla tors of a wetland. The etland. A third data p drophytic vegetation erefore, data point A3 e criteria, Wetland A	eers Wetland Delineation and A and did not pass to refore, data point A2 did noint, A3, was performed being present. No hydroid did not meet all three dis likely to be considered construction limits and was all three did not meet	the dominance test d not meet all three ed in the southeast lric soil or wetland of the criteria to be d jurisdictional (i.e.		
	exceed 0.1 acre, wetl		be required. A USACE	vetlands. Because wetla Section 404 Permit and			
	minimized as much a		of wetland impacts	ensure wetland impact is not practicable beca egrading is needed.			
Early coordination letters were sent to the IDNR Division of Fish and Wildlife, USACE, and IDEN 2020 (Appendix C, pages C-1 to C-3). The USACE did not respond to the early coordina automated response was received from IDEM on August 25, 2020; however, the response of project specific comments (Appendix C, pages C-4 to C-12). The IDNR Division of Fish and Wild to early coordination efforts on September 23, 2020; however, the response did not recommendations regarding wetlands (Appendix C, pages C-16 to C-18).							
			Presence	<u>Impacts</u>			
Terrestrial Unique or I	Habitat High Quality Habitat		Y	Yes No			
Use the rer Remarks:	2020 by RQAW, and a within, and adjacent, riparian habitat. Don saccharinum), and re (Phalaris arundinace) Although no animals	, field visits conducted an aerial photograph o , to the project area c ninant tree species incl ed oak (<i>Quercus rubra</i> a), tall fescue (<i>Schedo</i>	on July 10, 2017 by IN f the project area (Apponsist of agricultural uded eastern cottonw). Dominant herbaced arorus arundinaceus), sumed that certain cor	forested, grassland, fand DOT Crawfordsville Dist pendix B, page B-3), pre- farmland, maintained r food (Populus deltoides) pus vegetation included and Kentucky bluegra mmon animals are likely	edominant land use roadside grass, and silver maple (Acer reed canary grass ss (Poa pratensis).		
	an IDEM Rule 5 Notice		quired. No trees great	ce within the construction construction than three inches in contact to be cleared.			
	2020 (Appendix C, pautomated response	pages C-1 to C-3). The was received from IDI	USACE did not resp EM on August 25, 202	nd Wildlife, USACE, and I sond to the early coord to; however, the respor NR Division of Fish and	dination letter. An use did not contain		
This is pa Project n	age 10 of 23 ame:	SR 234 Sr	nall Structure Replaceme	ent Project Date	: October 21, 2020		

County	Fountain	Route	SR 234	Des. No.	1600886
	to early coordination	efforts on Sentembe	r 23 2020 and rec	ommended revegetat	ting disturbed areas
	minimizing tree and br	· · · · · · · · · · · · · · · · · · ·		_	_
	roosting (Appendix C,	_	_		_
	Environmental Commit	· -		,	
	e are high incidences of anim				appear to be the sole
corride	or for animal movement, con	sideration of utilizing wildl	ife crossings should be	taken.	
Karst				Ye	es No
	roposed project located v				✓
Are kar	st features located within If yes, will the project in			project?	
		•		<u> </u>	
	rks box to identify any kar O <u>ctober 13, 1993)</u>	st features within the p	roject area. (Karst in	vestigation must comp	oly with the Karst
Remarks:	Per a desktop review, t	•	_	_	
	October 13, 1993 Mem		• , ,	. • .	
	(Appendix B, page B-2)	•	•	eport (Appendix E, pa	age E-6), there are no
	karst features identifie	d within or adjacent to	the project area.		
	In their early coordina	ation response dated	August 25, 2020, th	e Indiana Geological	Survey (IGS) did not
	indicate that karst fea	atures exist in the pro	oject area (Appendix	C, pages C-13 to C-	-15). Impacts are not
	expected. The IGS stat	ted the project is loca	ted within an area v	with moderate liquefa	action potential, high
	onposteum me ree star				
	potential for bedrock r	resources, low potentia			
	potential for bedrock rabandoned mineral re	resources, low potentia			
	potential for bedrock r	resources, low potentia			
	potential for bedrock rabandoned mineral re	resources, low potentia			
	potential for bedrock r abandoned mineral re August 25, 2020.	resources, low potentia sources extraction site			e project designer or <u>Impacts</u>
	potential for bedrock r abandoned mineral re August 25, 2020.	resources, low potentia sources extraction site		was conveyed to the	e project designer or
Within th	potential for bedrock rabandoned mineral re August 25, 2020. d or Endangered Specie he known range of any fed	resources, low potential sources extraction site section		was conveyed to the	e project designer or <u>Impacts</u>
Within th Any critic	potential for bedrock rabandoned mineral re August 25, 2020. d or Endangered Specie he known range of any fectal habitat identified within	resources, low potentials sources extraction site sections site sections. Section 1. Se	es. This information	was conveyed to the	e project designer or <u>Impacts</u>
Within th Any critic Federal	potential for bedrock rabandoned mineral re August 25, 2020. d or Endangered Specie he known range of any fed	resources, low potentials are sources extraction site of the sources extracted the sources of the sources o	es. This information	was conveyed to the	e project designer or <u>Impacts</u>
Within th Any critic Federal	potential for bedrock rabandoned mineral re August 25, 2020. d or Endangered Speciene known range of any fectal habitat identified within species found in project a	resources, low potentials are sources extraction site of the sources extracted the sources of the sources o	es. This information	was conveyed to the	e project designer or <u>Impacts</u>
Within the Any critic Federal State sp	potential for bedrock rabandoned mineral re August 25, 2020. d or Endangered Speciene known range of any fectal habitat identified within species found in project a	resources, low potentials and potentials are sources extraction site and potentials are also because a lossed upon informatical consultations are a lossed upon consultations.	es. This information mal consultation) ation with IDNR)	Presence	e project designer or <u>Impacts</u>
Within the Any critic Federal State spo	potential for bedrock rabandoned mineral re August 25, 2020. dor Endangered Specie he known range of any fectal habitat identified within species found in project are cies found in project are not 7 formal consultation reper a desktop review and project and project and project and project are per a desktop review and project an	resources, low potential sources extraction site sources extraction site sea. Description of the sea of the s	mal consultation) ation with IDNR) Yes oved by INDOT Site A	Presence No Sssessment and Manag	Impacts Yes No
Within the Any critic Federal State sports	potential for bedrock rabandoned mineral re August 25, 2020. dor Endangered Specie ne known range of any fectal habitat identified within species found in project are cies found in project are no 7 formal consultation re Per a desktop review at 30, 2017 (Appendix E, I	resources, low potential esources extraction site esources extraction end the set of this extraction? In the RFI report, appropages E-1 to E-10), the	mal consultation) ation with IDNR) Yes oved by INDOT Site A IDNR Fountain Cour	Presence No Sssessment and Managaty Endangered, Threa	Impacts Yes No V gement on November at ened and Rare (ETR)
Within the Any critic Federal State sports	potential for bedrock in abandoned mineral re August 25, 2020. d or Endangered Specie ne known range of any fect call habitat identified within species found in project are ecies found in project are not 7 formal consultation re Per a desktop review at 30, 2017 (Appendix E, Species List has been consultation of the second formal consultation o	resources, low potential sources extraction site sources extraction site sections are a species area (based upon informatical (based upon consultate) and the RFI report, appropages E-1 to E-10), the checked. The highlighter	mal consultation) ation with IDNR) Yes oved by INDOT Site A IDNR Fountain Coured species on the list	Presence No Sssessment and Managaty Endangered, Threa reflect the federal and	Impacts Yes No Gement on November attened and Rare (ETR) d state identified ETR
Within the Any critic Federal State sports	potential for bedrock rabandoned mineral re August 25, 2020. dor Endangered Speciene known range of any fectoral habitat identified within species found in project are secies found in project are per a desktop review and 30, 2017 (Appendix E, Species List has been conspecies located within	esources, low potential sources extraction site esources en project area esources e	mal consultation) ation with IDNR) Yes oved by INDOT Site A IDNR Fountain Cour ed species on the list lendix E, pages E-9 a	Presence No Ssessment and Managaty Endangered, Threa reflect the federal and model to the federal and the fe	Impacts Yes No Gement on November Stened and Rare (ETR) d state identified ETR R Division of Fish and
Within the Any critic Federal State spo	potential for bedrock rabandoned mineral re August 25, 2020. dor Endangered Specie ne known range of any fect cal habitat identified within species found in project are ecies found in project are not 7 formal consultation respected projects are species List has been conspecies located within Wildlife early coordina	escources, low potential escources extraction site escources and project area area (based upon consultate escource) escource for this action? Indicate the RFI report, appropages E-1 to E-10), the esched. The highlighter Fountain County (Apportion response letter descources extractions are provided in the response letter descources.	mal consultation) ation with IDNR) Yes Oved by INDOT Site A IDNR Fountain Cour ed species on the list endix E, pages E-9 a ated September 23,	Presence No No Sssessment and Managaty Endangered, Threa reflect the federal and the E-10). Per the IDNI 2020, the Natural Her	Impacts Yes No gement on November atened and Rare (ETR) d state identified ETR R Division of Fish and ritage Program's data
Within the Any critic Federal State sports	potential for bedrock rabandoned mineral re August 25, 2020. dor Endangered Specie ne known range of any fectal habitat identified within species found in project are cies found in project are proposed for a desktop review at 30, 2017 (Appendix E, Species List has been conspecies located within Wildlife early coordinal have been checked a	esources, low potential sources extraction site sources extraction site sources extraction site sections. The project area (based upon consultate equired for this action? and the RFI report, appropages E-1 to E-10), the checked. The highlighter Fountain County (Appartion response letter dand, to date, no plan	mal consultation) ation with IDNR) Yes Oved by INDOT Site A IDNR Fountain Cour ed species on the list rendix E, pages E-9 a ated September 23, t or animal species	Presence No Sessessment and Managaty Endangered, Threat reflect the federal and the federal and E-10). Per the IDNI 2020, the Natural Heist listed as state or fill.	Impacts Yes No gement on November atened and Rare (ETR) d state identified ETR R Division of Fish and ritage Program's data federally threatened
Within the Any critic Federal State spo	potential for bedrock rabandoned mineral re August 25, 2020. dor Endangered Specie ne known range of any fect cal habitat identified within species found in project are ecies found in project are not 7 formal consultation respected projects are species List has been conspecies located within Wildlife early coordina	esources, low potential sources extraction site sources extraction site sources extraction site sections. The project area (based upon consultate equired for this action? and the RFI report, appropages E-1 to E-10), the checked. The highlighter Fountain County (Appartion response letter dand, to date, no plan	mal consultation) ation with IDNR) Yes Oved by INDOT Site A IDNR Fountain Cour ed species on the list rendix E, pages E-9 a ated September 23, t or animal species	Presence No Sessessment and Managaty Endangered, Threat reflect the federal and the federal and E-10). Per the IDNI 2020, the Natural Heist listed as state or fill.	Impacts Yes No gement on November atened and Rare (ETR) d state identified ETR R Division of Fish and ritage Program's data federally threatened
Within the Any critic Federal State sports	potential for bedrock in abandoned mineral re August 25, 2020. dor Endangered Specie ne known range of any fectal habitat identified within species found in project are ecies found in project are no 7 formal consultation respected for 8 formal consultation respected for 10	resources, low potential sources extraction site securces extraction site securces extraction site securces and area (based upon informatical (based upon consultate security). The extraction of the RFI report, appropages E-1 to E-10), the checked. The highlighter Fountain County (Appropriation response letter date, to date, no plantary been reported to o	mal consultation) ation with IDNR) Yes oved by INDOT Site A IDNR Fountain Cour ed species on the list endix E, pages E-9 a ated September 23, t or animal species ccur in the project vi	No No Sessessment and Managaty Endangered, Threat reflect the federal and E-10). Per the IDN 2020, the Natural Heist listed as state or ficinity (Appendix C, page 1975).	Impacts Yes No Y gement on November atened and Rare (ETR) d state identified ETR R Division of Fish and ritage Program's data federally threatened ages C-16 to C-18).
Within the Any critic Federal State spo	potential for bedrock rabandoned mineral re August 25, 2020. dor Endangered Specie ne known range of any fectal habitat identified within species found in project are cies found in project are proposed for a desktop review at 30, 2017 (Appendix E, Species List has been conspecies located within Wildlife early coordinal have been checked a	resources, low potential sources extraction site securces extraction site securces extraction site securces area (based upon informatical (based upon consultate	mal consultation) ation with IDNR) Yes oved by INDOT Site A IDNR Fountain Cour ed species on the list rendix E, pages E-9 a ated September 23, t or animal species ccur in the project vi	No No Sessessment and Manage ty Endangered, Threat reflect the federal and E-10). Per the IDNI 2020, the Natural Heist listed as state or ficinity (Appendix C, pa	Impacts Yes No V gement on November atened and Rare (ETR) d state identified ETR R Division of Fish and ritage Program's data federally threatened ages C-16 to C-18).
Within the Any critic Federal State spo	potential for bedrock in abandoned mineral re August 25, 2020. dor Endangered Specie ne known range of any fect cal habitat identified within species found in project are ecies found in project are provided in project are project information with abandone in project information in project in project information in project information in project information in project informat	resources, low potential sources extraction site sources extraction site sections are a section site section site section site section site section site section secti	mal consultation) ation with IDNR) Yes oved by INDOT Site A IDNR Fountain Cour ed species on the list endix E, pages E-9 a ated September 23, t or animal species ccur in the project vi	No No Sessessment and Managaty Endangered, Threat reflect the federal and E-10). Per the IDN 2020, the Natural Here is listed as state or ficinity (Appendix C, pa	Impacts Yes No Y gement on November atened and Rare (ETR) d state identified ETR R Division of Fish and ritage Program's data federally threatened ages C-16 to C-18). FWS) Information for D, 2020 by RQAW and
Within the Any critic Federal State sp	potential for bedrock rabandoned mineral re August 25, 2020. dor Endangered Specie ne known range of any fect cal habitat identified within species found in project are cies found in project are not 7 formal consultation respecies found in project are species List has been of species located within Wildlife early coordinate have been checked a endangered, or rare has project information we planning and Consultation and consultation we planning and Consultation respectively.	resources, low potential sources extraction site sources extraction site sources extraction site sources extraction site sections and section section of the RFI report, appropages E-1 to E-10), the shecked. The highlighter Fountain County (Approximation response letter dand, to date, no plan save been reported to over a submitted through the response submitted through the response submitted through the reported to over a submitted through the response submitted through the reported to over a submitted through the response submitted through the reported to over a submitted through the response submitted through th	mal consultation) ation with IDNR) Yes Oved by INDOT Site A IDNR Fountain Cour ed species on the list lendix E, pages E-9 a ated September 23, t or animal species ccur in the project vi the U.S. Fish and ttps://ecos.fws.gov/i e official species list,	Presence No Sessessment and Managaty Endangered, Threat reflect the federal and E-10). Per the IDN 2020, the Natural Here is listed as state or ficinity (Appendix C, parawilla) wildlife Service (USF pac/) on September 9 the project area is wildlife.	Impacts Yes No Y gement on November atened and Rare (ETR) d state identified ETR R Division of Fish and ritage Program's data federally threatened ages C-16 to C-18). FWS) Information for 0, 2020 by RQAW and other than a control of the
Within the Any critic Federal State spo	potential for bedrock rabandoned mineral re August 25, 2020. dor Endangered Specie le known range of any fectal habitat identified within species found in project are cies found in project are lecies located within Wildlife early coordinate have been checked a lendangered, or rare have lecies list information will planning and Consultation of ficial species list will be about the lecies list will be about the	resources, low potential sources extraction site sources extraction in project area (based upon consultate source) and the RFI report, appropages E-1 to E-10), the checked. The highlighter Fountain County (Approximation response letter dand, to date, no plan save been reported to our source submitted through the tion (IPaC) website (ht was generated. Per the Indiana bat (Myotis source)	mal consultation) ation with IDNR) Yes oved by INDOT Site A IDNR Fountain Cour ed species on the list lendix E, pages E-9 a ated September 23, t or animal species ccur in the project vi the U.S. Fish and tps://ecos.fws.gov/ii e official species list, odalis) and the feder	Presence No Sessessment and Manage ty Endangered, Threat reflect the federal and E-10). Per the IDN 2020, the Natural Here is listed as state or ficinity (Appendix C, parawold) on September 9 the project area is with the project area is with the project area is with the project area of the project area is with the project area of the project area is with the project area of the project area is with the project area of th	Impacts Yes No Y gement on November atened and Rare (ETR) d state identified ETR R Division of Fish and ritage Program's data federally threatened ages C-16 to C-18). FWS) Information for D, 2020 by RQAW and within the range of the othern long-eared bat
Within the Any critic Federal State sports	potential for bedrock in abandoned mineral re August 25, 2020. dor Endangered Specie in the known range of any fect call habitat identified within species found in project are cies found in project are cies found in project are in 7 formal consultation respecies found in project are species List has been consultation wildlife early coordinate have been checked and endangered, or rare has project information wildlife and Consultation official species list wildlife federally endangered.	resources, low potential sources extraction site securces and securces (based upon consultate securces (based upon consult	mal consultation) ation with IDNR) Yes oved by INDOT Site A IDNR Fountain Cour ed species on the list endix E, pages E-9 a ated September 23, t or animal species ccur in the project vi the U.S. Fish and etps://ecos.fws.gov/i e official species list, odalis) and the fede ies list, no additiona	Presence No No Sessessment and Manage ty Endangered, Threat reflect the federal and the Endangered of the IDNI 2020, the Natural Here is listed as state or ficinity (Appendix C, particularly (Appen	Impacts Yes No Y gement on November atened and Rare (ETR) d state identified ETR R Division of Fish and ritage Program's data federally threatened ages C-16 to C-18). FWS) Information for D, 2020 by RQAW and ithin the range of the thern long-eared bat within or adjacent to

		Indiana Depart	ment of Transp	ortation	
County _	Fountain	Route	SR 234	Des. No	1600886
	1			w of Highway Transpo the USFWS regarding o	
	northern long-eared Administration (FRA), completed on Septem May Affect, Not Likely pages C-29 to C-39). USFWS's review of th received from the USI with the finding. Avoi	bat, dated May 2016 Federal Transit Admini ber 9, 2020 by RQAW; to Adversely Affect the NDOT Crawfordsville I be effect finding on Sectors WS within the 14-day	o (revised February 2 istration (FTA), and the based on the response Indiana bat and/or District reviewed and eptember 14, 2020 (A review period; therefor Measures (AMMs)	al Consultation for the 2018), between FHWA e USFWS. An effect dete es provided, it was dete the northern long-eare verified the effect find ppendix C, page C-28) ore, it was concluded the are included as firm consultation.	r, Federal Railroad ermination key was ermined the project ed bat (Appendix C, ling and requested . No response was the USFWS concurs
	Species Act of 1973, a		ormation on endange	equired under Section 7 red species at the site onsultation.	
SECTION	B – OTHER RESOUF	RCES			
Wellhead Public W Resident Source V Sole Sou	ater Resources I Protection Area Pater System(s) Italial Well(s) Vater Protection Area(s) Irce Aquifer (SSA)		Presence	Yes /	No
ls th Is th Initia	is present, answer the form of the Project in the St. Jose of FHWA/EPA SSA MO al Groundwater Assessified Groundwater Assessified Groundwater Asse	eph Aquifer System? U Applicable? nent Required?	Yes	No	
Remarks:	the only legally desig Agency (EPA) Sole So	nated sole source aqui	ifer in Indiana. Therefoldum of Understandin	within the St. Joseph Sore, the FHWA/Enviror g (MOU) is not applicates acts are not expected.	nmental Protection
	(http://www.in.gov/id		/wellhead/) was acce	ellhead Proximity Deto ssed on September 2! urce Water Area.	
	September 15, 2020 b	y RQAW, one unspecif	ied water well and two	os://www.in.gov/dnr/woo unconsolidated wate cified) is mapped appro	r wells are mapped
This is pa Project na	ge 12 of 23	SR 234 Sm	nall Structure Replaceme	nt Project Date	: October 21, 2020

	Fountain	Route	SR 234	Des. No	1600886
			well records, the wate exceed 15 feet bgs. N		
	(https://entapps.indot	<u>. in.gov/MS4/</u>) on Sep	Municipal Separate S tember 15, 2020 by RQ ndary. Impacts are not e	AW, and the RFI repo	
	2020 by RQAW, and ar	n aerial photograph of	on July 10, 2017 by INDo f the project area (Appe lo impacts are expected	endix B, page B-3), the	
			<u>Presen</u>		<u>ts</u>
Transvei Project lo	linal Encroachment rse Encroachment ocated within a regulated			Yes	No
	ocated in floodplain withir cts according to classificat	·	. ,		
Remarks:		· · · · · · · · · · · · · · · · · · ·	formation Portal websit	te (<u>https://dnrmaps.d</u> ocated within a regula	
	determined by approv (Appendix E, page E-6	ved IDNR floodplain r 6), indicated that th fall within the guideli	maps. Additionally, the e project area is not included in the implementations.	water resources map located within a reg	ulatory floodplain.
	determined by approv (Appendix E, page E-C Therefore, it does not	ved IDNR floodplain r 6), indicated that th fall within the guideli	naps. Additionally, the e project area is not	water resources map located within a reg	ulatory floodplain.
Farmland Agricultu	determined by approv (Appendix E, page E-C Therefore, it does not	ved IDNR floodplain r 6), indicated that th fall within the guideli	maps. Additionally, the e project area is not ines for the implementa	water resources map located within a reg ation of 23 CFR 650, 2	ulatory floodplain.
Farmland Agricultu Prime Fa Total Poir	determined by approve (Appendix E, page E-C) Therefore, it does not CFR. No impacts are expended.	yed IDNR floodplain r 6), indicated that the fall within the guideling expected.	maps. Additionally, the e project area is not ines for the implementa	water resources map located within a reg ation of 23 CFR 650, 2	ulatory floodplain.
Farmland Agricultu Prime Fa Total Poir *If 160 or g	determined by approve (Appendix E, page E-C) Therefore, it does not CFR. No impacts are extended armland (per NRCS) Ints (from Section VII of CF) Interester, see CE Manual for guidance to determine the per a desktop review, for 2020 by RQAW, and a section (Appendix E) Per a desktop review, for 2020 by RQAW, and a section (Appendix E)	red IDNR floodplain ref), indicated that the fall within the guideling expected. PA-106/AD-1006* Luidance. Line which NRCS form field visits conducted an aerial map of the	Presence 116	water resources map located within a reg ation of 23 CFR 650, 2 Impacts Yes No V V V Orroject. OT Crawfordsville Dist x B, page B-3), the p	ulatory floodplain. 23 CFR 771, and 44

County _	Fountain	Route	SR 234	Des. No	1600886
SECTION (C – CULTURAL RESOURC	CES			
Minor Projects	S PA Clearance	tegory Type A 9 B 4 B 9	September 29, 2 September 29, 2 September 29, 2	2020 2020	N/A
		Eligible and/or Liste			
Results of Re	esearch	Resource Fresein	<u>.</u>		
Archaeology NRHP Buildin NRHP District NRHP Bridge	t(s)				
roject Effect					
No Historic Pr	operties Affected	No Adverse Effect	Advers	e Effect	
Historic Prope Historic Prope Archaeologica Archaeologica Archaeologica Archaeologica Archaeologica Archaeologica Archaeologica APE, Eligibility B00.11 Docum Memorandum escribe all efiategories outlin cal newspape	rties Short Report rty Report Il Records Check/ Review Il Phase la Survey Report Il Phase Ic Survey Report Il Phase Il Investigation Report Il Phase III Data Recovery Il and Effect Determination	MOA sources, including a completion of the Secution date, name of particular completion date, name of particular completion date.	tion 106 process requal aper(s) and the comr	of the Section 106 p uires that a Legal Noti ment period deadline.	rocess, using the ce be published in
Remarks:	On September 29, 2020 the the guidelines of Category A Agreement, (Appendix D, preplacement of erosion condisturbed soils. Category B, barriers, glare screens, and repair, lining, or extension of that work occurs in undistu	, Type 9 and Categor pages D-1 and D-4). trol measures along Type 4 involves the increase attenuators. Of f culverts and other	ry B, Types 4 and 9 u Category A, Type g roadways, waterwanstallation of new sa Category B, Type 9 drainage structure.	under the Minor Proje 9 involves the instal ays and bridge piers afety appurtenances s involves the installati Category B Type 4 ar	cts Programmatic llation, repair, or within previously uch as guardrails, on, replacement, nd 9 both require
This is pag Project nar		SR 234 Small St	ructure Replacement I	Project Date:	October 21, 2020

SR 234

Des. No. _____1600886

Route

County Fountain

reviewed by INDOT Cultural Resources (National Register-eligible archaeological re		nat no National Register-listed or potentially within the project area.
=:	2020) (Appendix D, _I	pleted by qualified professionals from Cultural pages D-5 and D-6). The survey did not identify be allowed to proceed.
No further consultation is required. This of FHWA under Section 106 have been fulfilled.	•	on 106 process and the responsibilities of the
SECTION D - SECTION 4(f) RESOURCES/ SECT	TION 6(f) RESOUR	CES
Section 4(f) Involvement (mark all that apply)	Presence	<u>Use</u>
Parks & Other Recreational Land Publicly owned park Publicly owned recreation area Other (school, state/national forest, bikeway, etc.)		Yes No
	Evaluations Propaged	
Programmatic Section 4(f)* "De minimis" Impact* Individual Section 4(f)	<u>Prepared</u>	FHWA Approval date
Wildlife & Waterfowl Refuges National Wildlife Refuge National Natural Landmark State Wildlife Area State Nature Preserve	Presence	Yes No
Programmatic Section 4(f)* "De minimis" Impact* Individual Section 4(f)	Evaluations Prepared	FHWA Approval date
Historic Properties Sites eligible and/or listed on the NRHP	<u>Presence</u>	Yes No
Programmatic Section 4(f)* "De minimis" Impact* Individual Section 4(f)	Evaluations Prepared	FHWA Approval date
This is page 15 of 23 Project name: SR 234	Small Structure Replac	ement Project Date: October 21, 2020

County	Fountain	Route	SR 234	Des. No	1600886
	val of the environmenta discussed below.	l document also serve	es as approval of any S	ection 4f Programmatic	and/or De minimis
ocumentation dividual Sect	n must be separate Dr	aft and Final docume ase refer to the "Proced	on 4(f) impacts in the rents. For further discussional Manual for the Prepon 4(f).	sions on Programmatic	, "de minimis" and
Remarks:	Section 4(f) of the U historic lands for fed law applies to signific	.S. Department of Tra erally transportation cant publicly owned pa aces (NRHP) eligible o	ansportation Act of 196 facilities unless there is arks, recreational areas or listed historic propert	no feasible and prude , wildlife/waterfowl ref	nt alternative. The uges, and National
	2020 by RQAW, an ag in the RFI report (App	erial photograph of the endix E, page E-5), the There are no Section	I on July 10, 2017 by INI e project area (Appendi ere are no potential Sec 1 4(f) resources located	x B, page B-3), and the tion 4(f) resources loca	infrastructure map ted within 0.5 mile
Section 6(f) Involvement		<u>Presence</u>	<u>Use</u>	
Section 6(f) Property			Yes No	
	Per review of the LW there are four LWCF located within or adjusted to the	t prohibits conversion CF property list provious properties within Fount of the project a	evelop and assure acce of lands purchased with ded by the IDNR Division ntain County (Appendix rea. Impacts are not ex e on August 25, 2020 (Appendination letter.	h LWCF monies to a no n of Outdoor Recreatio I, page I-1). None of th pected. In addition, an	n-recreation use. n, dated July 2020, lese properties are early coordination
SECTION	E – Air Quality				
<u>Air (</u>	Qualit <u>y</u>				,
Is t If Y Lev		ity non-attainment or not st current MPO TIP? com conformity? sempt from conformity, Transportation Plan (sis required (CO/PM)?	then:	Yes No V Level 5	
	age 16 of 23				
Project n	ame:	SR 234 S	mall Structure Replaceme	nt Project Date	October 21, 202

County _	Fountain	Route	SR 234	Des. No.	1600886
Remarks:	The FY 2020 to 2024 INDO Des. Number in the contr 2024 STIP includes Des. N 1). The project area is no listed in an MPO Transpor	act. The lead Des. Number 1600886 by t located within a	Number for this contrac reference with Contrac Metropolitan Planning	t is Des. Number 1 t Number B-39957	.601095. The FY 2020- ' (Appendix H, page H-
	The project is in Fountain of Air Quality website (https://on.september 15, 2020 by	ttps://www.in.gov/	idem/airquality/files/no	onattainment area	s map.pdf), accessed
	The project is of a type q under the Clean Air Act co is not required.		•	•	
SECTION	F - NOISE				
Noise Is a noise a	nalysis required in accordan	·		ffic noise policy?	Yes No
ES Review	of Noise Analysis	No Yes/ Dat	<u>e</u>		
Remarks:	The project is a Type III p Transportation Traffic Noi	ise Analysis Procedu			
SECTION	G - COMMUNITY IMPA	CTS			
Will the prop Will the prop Will the prop Will constru Does the co If No, ar	Community & Neighborhood bosed action comply with the bosed action result in substances action activities impact community have an approved a steps being made to advance to comply with the transit	e local/regional devo antial impacts to cor antial impacts to loca aunity events (festiva transition plan? nce the community	nmunity cohesion? al tax base or property v als, fairs, etc.)? 's transition plan?		Yes No
Remarks:	The project will comply anticipated to result in s properties within the are the surrounding commun have minimal or no negat	ubstantial impacts a or divide existing ity or cause econor	to community cohesic communities. The prop mic impacts to the surro	on because it will opposed project is no counding area. Ther	not change access to ot expected to impact
	There is a residential pro construction. Per the Fair 2020 by RQAW, no fairs o	rs and Festivals we	bsite (<u>www.fairsand fe</u>	stivals.net), access	sed on September 15,
This is pa Project na	ge 17 of 23 ame:	SR 234 Sm	nall Structure Replacement	: Project Da	ate: October 21, 2020

County	Fountain	Route	SR 234	Des. No.	1600886	
	area). Any future fairs festival goers can utiliz	•		o be impacted by the	project since fa	ir or
	Per the Fountain Cou Management/ADA T an approved American is not required to com curb ramps) located w	ransition 2014.pdf), and said with Disabilities Act ply with the ADA Trans	ccessed on September (ADA) Transition Plan, lition Plan because the	r 18, 2020 by RQAW, , dated March 2014. I ere are no ADA faciliti	Fountain County However, the pro es (sidewalks an	y has oject id/or
	nd Cumulative Impacts sposed action result in sul	ostantial indirect or cum	nulative impacts?	1	Yes No ✓]
Remarks:	Indirect impacts are e are still reasonably for to induced changes in the environment whic and reasonably forese	eseeable. Indirect effec the pattern of land use h result from the incre	ets may include growth e, population density, mental impact of the a	n inducing effects and or growth rate. Cumu action when added to	other effects rel llative impacts a other past, pres	ated ffect sent,
	Due to the scope of the cumulative impacts. T 234 within the project inconvenience to trave however, no significant	he replacement of the ct area. Negative impa	e structure will allow facts to the surrounding school buses and	for continued travel in ground community may emergency services)	for vehicles alon include a tempo during construc	g SR orary tion;
Will the pro private utili	cilities & Services sposed action result in subties, emergency services, facilities? Discuss how to	religious institutions, a	irports, public transpor	tation or pedestrian	Yes No]
Remarks:	Per a desktop review, 2020 by RQAW, an ae the RFI report (Append of the project area. Ac	rial photograph of the dix E, page E-5), and Go	project area (Append pogle Maps, there are	lix B, page B-3), the i no public facilities lo	nfrastructure macated within 0.5	ap in mile
	Early coordination le Commissioners, and F 3). These organization		ay Department on Aug	gust 25, 2020 (Appen		
	It is the responsibility two weeks prior to an		· · · · · · · · · · · · · · · · · · ·	_	ency services at	least
During the	ental Justice (EJ) (Preside development of the project require an EJ analyn:	ct were EJ issues ident	ified?		Yes No ✓ ✓	
	ny EJ populations located ne project result in advers			pulations?	√	
	40, 100					
Project n	age 18 of 23 ame:	SR 234 Sm	all Structure Replaceme	nt Project Da	te: October 2	1, 2020

ensure that their programs, policies, and activities do not have a disproportionately high and adverse e on minority or low-income populations. Per the current INDOT <i>Categorical Exclusion Manual</i> Environmental Justice (EJ) Analysis is required for any project that has two or more relocations or 0.5 ac	Indiana Department of Transportation								
ensure that their programs, policies, and activities do not have a disproportionately high and adverse e on minority or low-income populations. Per the current INDOT Categorical Exclusion Manual Environmental Justice (El) Analysis is required for any project that has two or more relocations or 0.5 ac additional permanent right-of-way. The project will require approximately 0.56 acre of permanent right way. Therefore, an El Analysis is required. Potential EJ impacts are detected by locating minority populations and low-income populations relative reference population to determine if populations of EJ concern exists and whether there could disproportionately high and adverse impacts to them. The reference population may be a county, cit town and is called the community of comparison (COC). In this project, the COC is Fountain County, community that overlaps the project limits is called the affected community (AC). In this project, the / Census Tract 9580. An AC has a population of concern for EJ if the population is more than 50% low-income or minority or I low-income or minority population is 125% of the COC. American Community Survey 5-year estimates (2014 through 2018) was obtained from the U.S. Census Bureau website (https://data.census.gov/cedsc September 28, 2020 by RQAW. The data collected for low-income and minority populations within the Al summarized in the table below. Table: Low-income and Minority Data (American Community Survey, 2014 through 2018) COC: Fountain County AC 1 (Census Tract 9580) Percent Low-income and Minority Data (American Community Survey, 2014 through 2018) COC: Fountain County AC 1 (Census Tract 9580) Percent Low-income of 10.0% which is below 50% and below the 125% of COC EJ Population of Concern No Percent Minority 4.6% 2.4% 125% of COC 5.7% AC 1 does not contain low-income populations of EJ concern. AC 1 has a percent minority of which is below 50% and is below the 125% COC threshold (5.7%). Therefore, AC 1 does not contain min populations of EJ concern. Conclusion T	County	Fountain	Route	SR 234	Des. No	1600886			
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Relocation of People, Businesses or Farms Will the proposed action result in the relocation of people, businesses or farms? Is a Business Information Survey (BIS) required? Is a Conceptual Stage Relocation Study (CSRS) required? Has utility relocation coordination been initiated for this project?		The census data sheets, environmental justice ar Housing and Urban Deve	alysis is warranted elopment (USHUD)	d. Lastly, early coordi on August 25, 2020 (nation was sent to the	U.S. Department of			
Will the proposed action result in the relocation of people, businesses or farms? Is a Business Information Survey (BIS) required? Is a Conceptual Stage Relocation Study (CSRS) required? Has utility relocation coordination been initiated for this project?	Relocation		,		,	Yes No			
Number of relocations: Residences: 0 Businesses: 0 Farms: 0 Other: 0	Will the pro s a Busine s a Concep	posed action result in the re ss Information Survey (BIS) otual Stage Relocation Stud	elocation of people, required? y (CSRS) required	?		V V V V V V V V V V			
	Number of	relocations: Residenc	es: 0 Bus	sinesses: 0 F	Farms: 0 Other	r: <u> </u>			

SR 234 Small Structure Replacement Project

Date: __

October 21, 2020

This is page 19 of 23 Project name:

County	Fountain	Route	SR 234	Des. No	1600886
f a BIS or C	CSRS is required, discuss th	ne results in the remark	ks box.		
Remarks		is ongoing. A commur	ms will take place as a re nications line (fiber optic nstruction.		
SECTIO	N H – HAZARDOUS MA	TERIALS & REGU	LATED SUBSTANCES	3	
		• • • • • • • • • • • • • • • • • • • •		ocumentation	
	us Materials & Regulated Investigation	Substances (Mark all	that apply)		
	Environmental Site Assessn	nent (Phase LESA)		<u> </u>	
	Environmental Site Assessr				
	pecifications for Remediation				
ES Povid	ew of Investigations	No Yes/ Dat	r 30, 2017	7	
LO IXEVIE	ew of investigations	Novembe	1 30, 2017		
าclude a รเ	ummary of findings for each	investigation.			
Remarks	Based on a review of C	GIS and available publi	ic records, a RFI was app	roved on November :	30, 2017 by INDOT
	Site Assessment & Ma	nagement (Appendix I	E, Pages E-1 to E-10). No	sites with hazardous	material concerns
	(hazmat sites) or sites	involved with regulate	ed substances were ident	ified in or within 0.5	mile of the project
	area. An additional se	arch of GIS and availa	ble public records condu	cted by RQAW on Oc	tober 13, 2020 did
	not indicate any addit	ional hazardous mate	erial concerns or sites in	or within 0.5 mile o	f the project area.
	Further investigation f	or hazardous material	concerns or regulated su	ubstances is not requ	ired at this time.
Γ					
SECTIO	N I – PERMITS CHECK	LIST			
Pormite	(mark all that apply)		Likely Required		
remmis	(mark all that apply)		Likely Required		
Army Co	orps of Engineers (404/Sec	ction10 Permit)			
	ndividual Permit (IP)				
	Nationwide Permit (NWP)				
	Regional General Permit (R		✓		
	Pre-Construction Notification	n (PCN)			
	Other				
	Wetland Mitigation required				
IDEM	Stream Mitigation required				
	Section 401 WQC				
	solated Wetlands determina	ation	<u> </u>		
	Rule 5				
	Other				
٧	Wetland Mitigation required				
5	Stream Mitigation required				
IDNR	_				
	Construction in a Floodway				
	Navigable Waterway Permit				
L	ake Preservation Permit				
-	00.100				
	page 20 of 23 t name:	SB 221 Sm	nall Structure Replacement	Project Date:	October 21, 2020
i i ojeci	. Hallio.		.a otractare replacement	Date.	

		maiana bepan	tment of Transp	o. auon	
County	Fountain	Route	SR 234	Des. No	1600886
Oth	ner				
	igation Required				
	Guard Section 9 Brido				
Others (Pi	ease discuss in the re	emarks box below)			
Remarks:	A USACE Section 40	04 Regional General Per	rmit and IDEM Sectio	n 401 Water Quality C	ertification will be
	·	am and wetland impacts			• •
		1 acre of wetlands. Beca	•		
	wetland impacts wil	I not exceed 0.1 acre, sti	ream and wetland mit	igation will not be requi	red.
	The project will resu	It in approximately 0.86	acre of land disturband	ce within the construction	on limits: therefore.
	1	ice of Intent will not be r		ve within the construction	
			•		
	I .	n of Fish and Wildlife ea			
	' ' ' '	formal approval for con-			
		cts, excavates, or fills in t	•	_	-
		er than one square mile ream drainage area of		-	
	1	oodway Permit will not b	• •	square fille (Appellu	ix 1, page 1-3), a
	Construction in a ric	Jouway I citime will hot b	re required.		
	Applicable recomme	endations provided by th	ne IDNR Division of Fisl	n and Wildlife and the U	SFWS are included
		al Commitments section			-
	-	rmit will be requirement			mmendations. It is
	the responsibility of	the project sponsor to i	dentify and obtain all	required permits.	
SECTION	J- ENVIRONMENTA	AL COMMITMENTS			
		provided below: List all co			
<i>mmitment(s</i> Remarks:		are firm and which are fo	or further consideration	. The commitments sho	uld be numbered.
Nemaiks.	Firm: 1. If the score	pe of work or perman	ent or temporary riv	aht-of-way amounts d	nange the INDOT
	-	ntal Services Division ar		= -	_
		ly. (INDOT Crawfordsville			viii be contacted
		sponsibility of the projec		-	mergency services
		weeks prior to any cons	The state of the s		
	District Env	vironmental Section)			
	T = 1	in a wetland area with	_		•
	specifically Division)	allowed in the U.S. Arr	my Corps of Engineer	s permit. (INDOT Envir	onmental Services
	,	dge/Structure Assessmer	nt shall take place no e	earlier than two (2) year	rs prior to the start

This is page 21 of 23 Project name:

Environmental Section)

of construction. If construction will begin after August 5, 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 Crawfordsville District

County	Fountain	Route	SR 234	Des. No.	1600886

- 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)
- Lighting AMM 1: Direct temporary lighting away from suitable habitat during the active season. (USFWS)

For Further Consideration:

- 1. If box and pipe culverts are used, the culvert bottoms should be buried a minimum of 6 inches (or 20% of the culvert height or diameter, whichever is greater up to a maximum of 2 feet) 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. (IDNR Division of Fish and Wildlife)
- 2. The new/replacement/rehabilitated crossing structure, and any bank stabilization under or around the structure, must not create conditions that are less favorable for wildlife passage when compared to current conditions. (IDNR Division of Fish and Wildlife)
- 3. Riprap or other hard bank stabilization materials should be used only at the toe of the side slopes up to the ordinary high water mark with the exception of areas directly under bridges for instance. The banks above the ordinary high water mark should be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to Central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. For streambed stabilization or scour protection, riprap or other stabilization materials should not be placed in the active stream channel above the existing streambed or flowline elevation unless specifically designed and installed for grade control and aquatic organism passage. This is to prevent obstructions to the movement of aquatic organisms upstream and downstream. (IDNR Division of Fish and Wildlife)
- 4. 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 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 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. (IDNR Division of Fish and Wildlife)
- 5. 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. (IDNR Division of Fish and Wildlife)
- 6. Do not construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumparounds. (IDNR Division of Fish and Wildlife)
- 7. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids. (IDNR Division of Fish and Wildlife)

This is page 22 of 23				
Project name:	SR 234 Small Structure Replacement Project	Date:	October 21, 2020	

County	Fountain	Route	SR 234	Des. No.	1600886

SECTION K-EARLY COORDINATION

Please list the date coordination was sent and all 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. INDOT and FHWA are automatically considered early coordination participants and should only be listed if a response is received.

Remarks:

Early coordination letters were sent to agencies on August 25, 2020 (Appendix C, pages C-1 to C-3). If a response was not received, it was assumed the agency did not feel the project would result in substantial impacts. Refer to the responding agency correspondences in Appendix C, pages C-4 to C-39. The following agencies/individuals were contacted during early coordination:

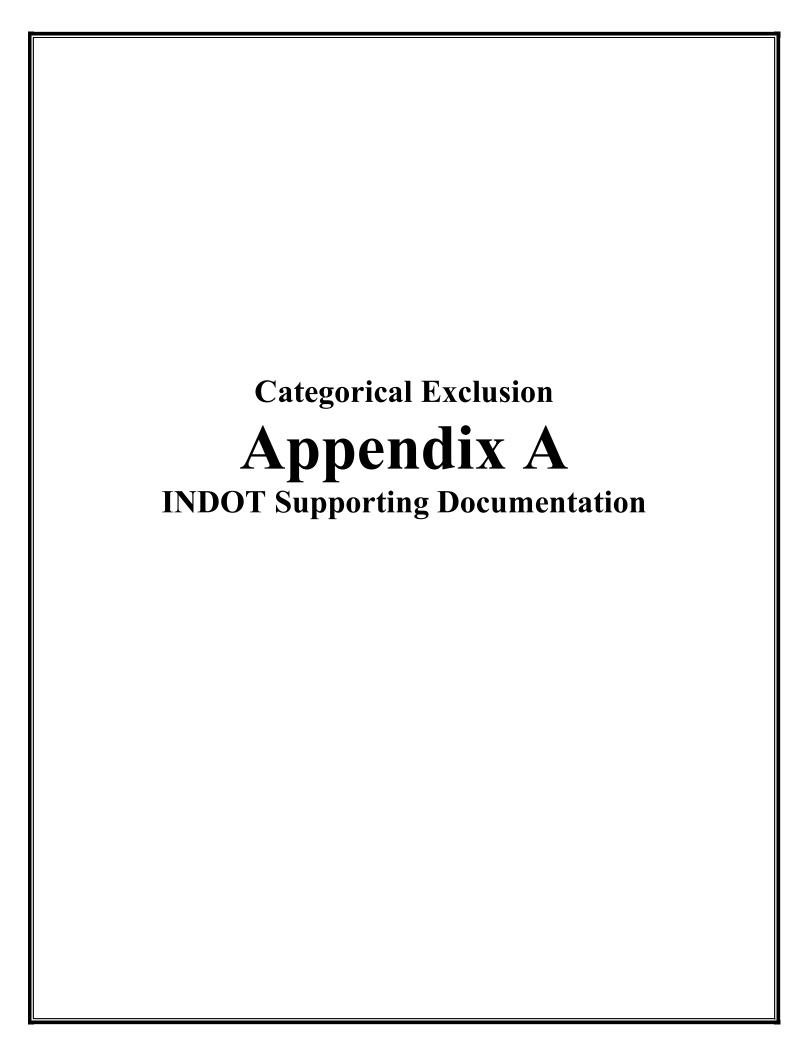
Agency	Date of Response(s)
INDOT Crawfordsville District	No response received
2. Federal Highway Administration	No response received
3. Indiana Geological Survey (standard electronic submission)	August 25, 2020
4. IDEM Groundwater Section (electronic query)	August 25, 2020
5. IDNR Division of Fish and Wildlife (electronic coordination)	September 23, 2020
6. IDEM (standard electronic submission)	August 25, 2020
7. INDOT Office of Public Involvement (electronic coordination)	No response received
8. U.S. Department of Housing and Urban Development	
(electronic coordination)	No response received
9. National Park Service, Midwest Regional Office	No response received
10. Natural Resources Conservation Service (electronic	
coordination)	September 14, 2020
11. U.S. Army Corps of Engineers, Louisville District (electronic	
coordination)	No response received
12. Fountain County Council	No response received
13. Fountain County Board of Commissioners	No response received
14. Fountain County Highway Department	No response received

This is page 23 of 23			
Project name:	SR 234 Small Structure Replacement Project	Date:	October 21, 2020

Designation (Des.) Number 1600886

SR 234 Small Structure Replacement Project – Fountain County, Indiana

Appendix A: INDOT Supporting Documentation	
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Appendix B: Graphics	
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Project Area Photograph Key Map	
Project Area Photographs	
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Appendix C: Early Coordination	
Example Early Coordination Letter (graphics omitted)	C-1
Indiana Department of Environmental Management (IDEM)	
Standard Roadway Construction Response Letter	C-4
Indiana Geological Survey	
Electronic Response	C-13
Indiana Department of Natural Resources (IDNR)	
Division of Fish and Wildlife Response Letter	C-16
Natural Resources Conservation Service (NRCS)	5 =5
Response Letter and NRCS-CPA-106 Form	C-19
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INDOT District Bat Database Check E-mail	C-21
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INDOT District IPaC Coordination E-mail	
IPaC Concurrence Verification Letter	
Appendix D: Section 106 of the National Historic Preservation Act (NHPA)	
Minor Projects Programmatic Agreement Project Assessment Form	D-1
IDNR DHPA Indiana Archaeological Short Report	
Appendix E: Red Flag Investigation and Hazardous Materials	
Red Flag Investigation (some graphics omitted)	Г 1
Red Flag Investigation (some graphics omitted)	E-1
Appendix F: Water Resources	F 4
Waters of the U.S. Determination Report (some graphics omitted)	
Appendix G: Public Involvement	
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Appendix H: Air Quality Statewide Transportation Improvement Program (relevant pages only)	H-1
Appendix I: Other Information	
National Park Service Land and Water Conservation Fund List	
INDOT Culvert Inspection Report (relevant pages only)	
Environmental Justice Analysis	I-6



Des. Number 1600886 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	No construction in waterways or water bodies	< 300 linear feet of stream impacts	≥ 300 linear feet of stream impacts	-	Individual 404 Permit
Wetland Impacts	No adverse impacts to wetlands	< 0.1 acre	-	< 1 acre	≥ 1 acre
Right-of-way ³	Property acquisition for preservation only or none	< 0.5 acre	≥ 0.5 acre	-	-
Relocations	None	-	-	< 5	≥ 5
Threatened/Endangered Species (Species Specific Programmatic for Indiana bat & northern long eared bat)	"No Effect", "Not likely to Adversely Affect" (Without AMMs ⁴ or with AMMs required for all projects ⁵)	"Not likely to Adversely Affect" (With any other AMMs)	1	"Likely to Adversely Affect"	Project does not fall under Species Specific Programmatic
Threatened/Endangered Species (Any other species)	Falls within guidelines of USFWS 2013 Interim Policy	"No Effect", ""Not likely to Adversely Affect"	-	-	"Likely to Adversely Affect"
Environmental Justice	No disproportionately high and adverse impacts	-	-	-	Potential ⁶
Sole Source Aquifer	Detailed Assessment Not Required	-	-	-	Detailed Assessment
Floodplain	No Substantial Impacts	-	-	-	Substantial Impacts
Coastal Zone Consistency	Consistent	-	-	-	Not Consistent
National Wild and Scenic River	Not Present	-	-	-	Present
New Alignment	None	-	-	-	Any
Section 4(f) Impacts	None	-	-	-	Any
Section 6(f) Impacts	None	-	-	-	Any
Added Through Lane	None	-	-	-	Any
Permanent Traffic Alteration	None	-	-	-	Any
Coast Guard Permit	None	-	-	-	Any
Noise Analysis Required	No	-	-	-	Yes
Air Quality Analysis Required	No	-	-	-	Yes ⁷
Approval Level	Concurrence by INDOT District				
District Env. SupervisorEnv. Services DivisionFHWA	Environmental or Environmental Services	Yes	Yes	Yes Yes	Yes Yes Yes

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

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

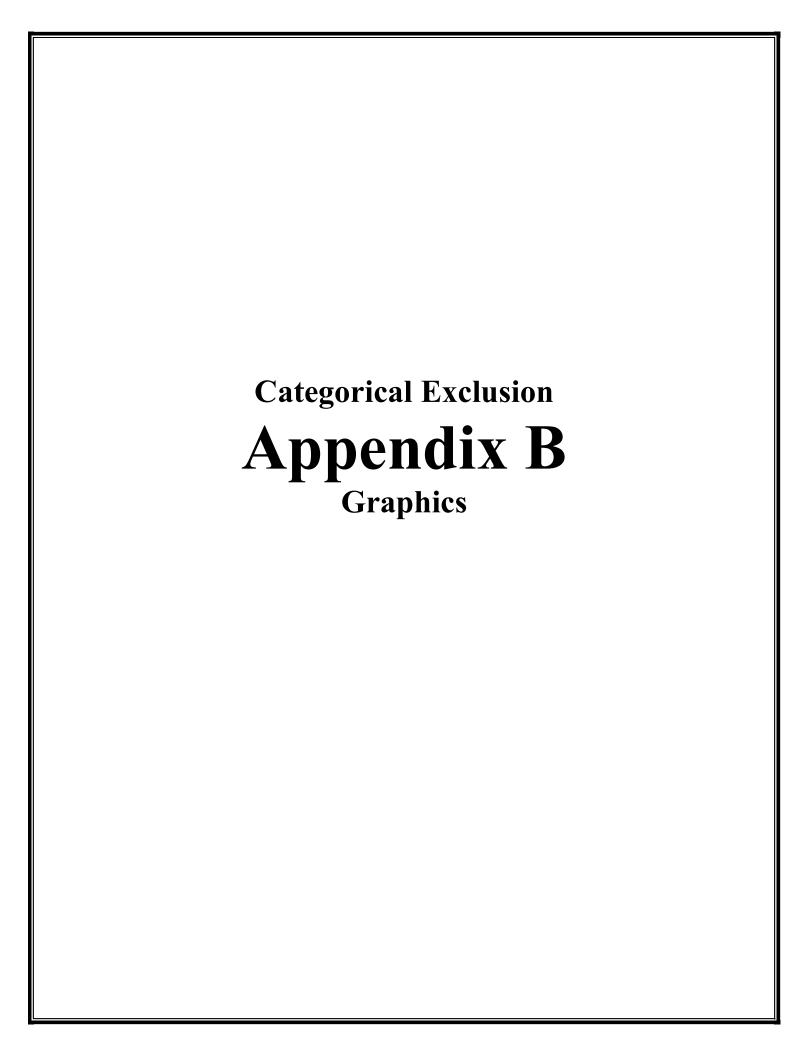
³Permanent and/or temporary right-of-way.

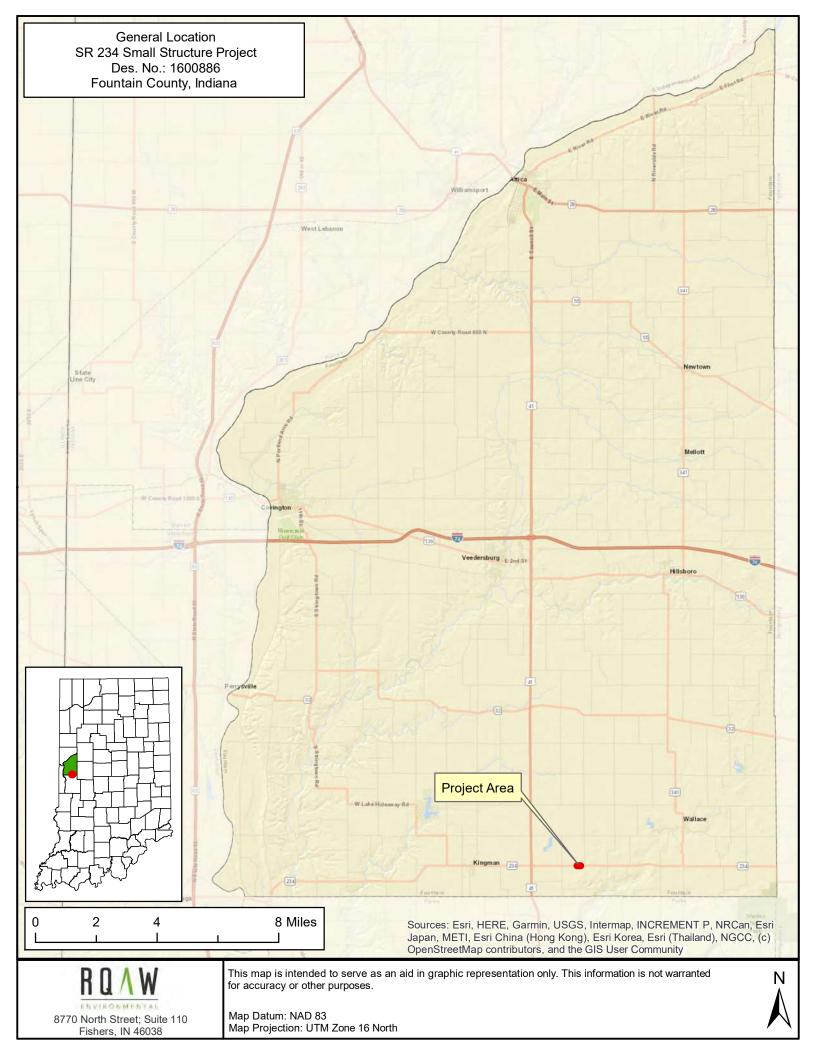
⁴AMMs = Avoidance and Mitigation Measures. ⁵AMMs determined by the IPAC decision key to be needed that are listed in the USFWS *User's Guide for the Range-wide Programmatic Consultation* for Indiana bat and Northern long-eared bat as "required for all projects".

⁶Potential for causing a disproportionately high and adverse impact.

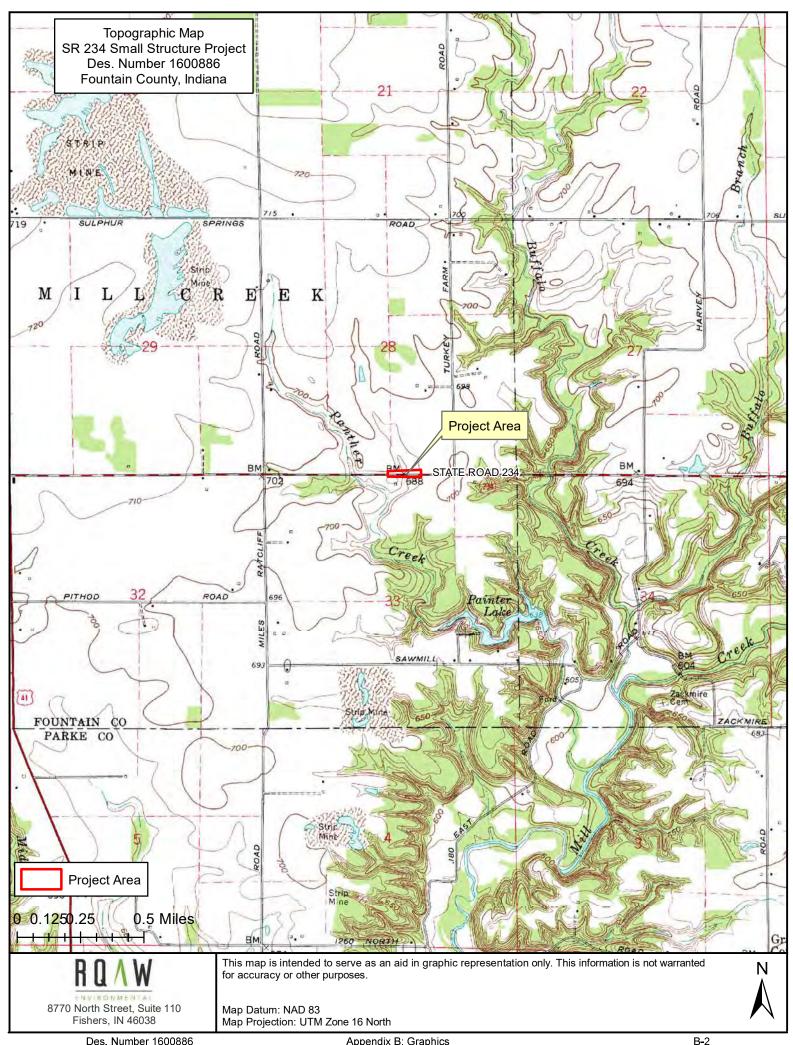
⁷Hot Spot Analysis and/or MSAT Quantitative Emission Analysis.

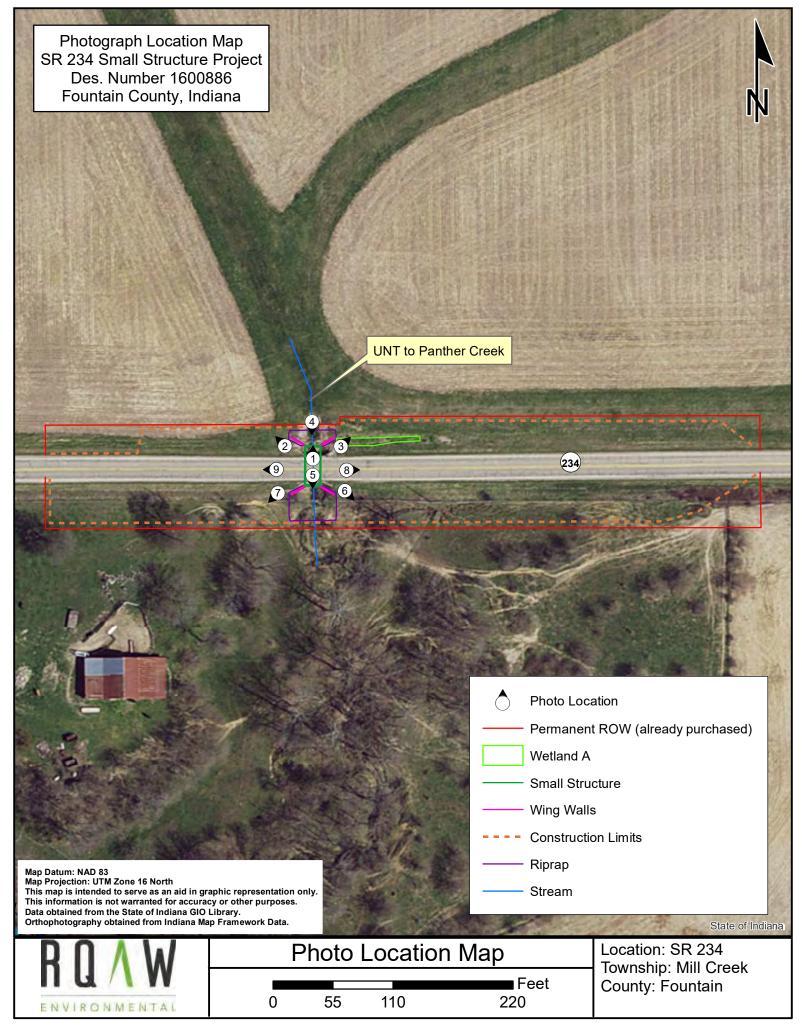
^{*}Substantial public or agency controversy may require a higher-level NEPA document.





Des. Number 1600886 Appendix B: Graphics





Des. Number 1600886 Appendix B: Graphics B-3



1. Looking north from the structure at the UNT to Panther Creek and agricultural field



 $2. \ Looking \ northwest \ from \ the \ structure \ at \ vegetation$



3. Looking northeast from the structure at adjacent agricultural land $% \left(1\right) =\left(1\right) \left(1$



4. Looking south towards the structure and the UNT to Panther Creek



5. Looking south from the structure at the UNT to Panther Creek and adjacent property



6. Looking southeast from the structure at adjacent vegetation



7. Looking southwest from the structure at adjacent vegetation



8. Looking east at roadside vegetation along SR 234 from the structure $\,$



9. Looking west at roadside vegetation along SR 234 from the structure

PROJECT	DESIGNATION
1600886	1600886
CONTRACT	CULVERT ASSET L.D.
B-39957	CV 234-023-018.14

	STRUCT	URE INFORM	NOITA	
CULVERT ASSET 1 D.	TYPE	SPAN AND SKEYY	OVER	STATION
Cv 234-623-18 14	Printed Concrete Box Culvert	5pan 13 01 Rise 7:01 Skew: 01	UNT Partner Creek	50+38 Lee 198-91

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

		JMBERS - B-3995	7	
Bi dije Structare Ne or Suiveri Asset L.C.	Disign No.	уюч Турс	Sir =	Lead Project
(106)34-73-10207	1601095	Bridge Replacement	01	load
CV 744 0734038.14	1600356	Small Structure Replacement	127	A NAME OF
CV 041 023 161 60	1600917	Small Structure Replacement	03	

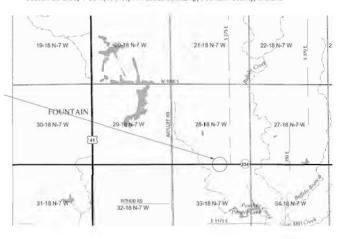
18 + 14SR 234 ROUTE: AT:

PROJECT NO. 1600886 P.E.

1600886 R/W

1600886 CONST.

Small Structure Replacement on SR 234 over UNT Panther Creek Located 1,56 Miles East of US 41 Section 28 & 33, T-18-N, R-7-W, Mill Creek Township, Fountain County, Indiana





GROSS LENGTH: 0.09 NET LENGTH: MAX. GRADE:

PROJECT LOCATION SHOWN BY -

Powellar DE- na bastona,

M).

TRAFFIC DATA

DIRECTIONAL DISTRIBUTION TRUCKS **DESIGN DATA**

DESIGN SPEED
PROJECT DESIGN OFFERIA
PUNCTIONAL CLASSIFICATION
RIGHT DIRECTION
PURPLE
TYPINALIN
ACCESS CONTROL

(AT\$TIUDE - K 3@459'2'

3R (NON-FREEWAY) MAJOR COLLECTOR

STAGE 3 PLAN 4/20/2020

INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2020 TO BE USED WITH THESE SCARS

PLANS PREPARED BY:	David Riyad	(317)2320682 PHONE NUMBER		I
CERTIFIED BY:		DAYE	SURVEY BOOK	十
APPROVED		DATE	ELECTRONIC	т
FOR LETTING:			CDNTRACT	T
	INDIANA DEPARTMENT OF TRANSPORTATION	DATE	6:3967	

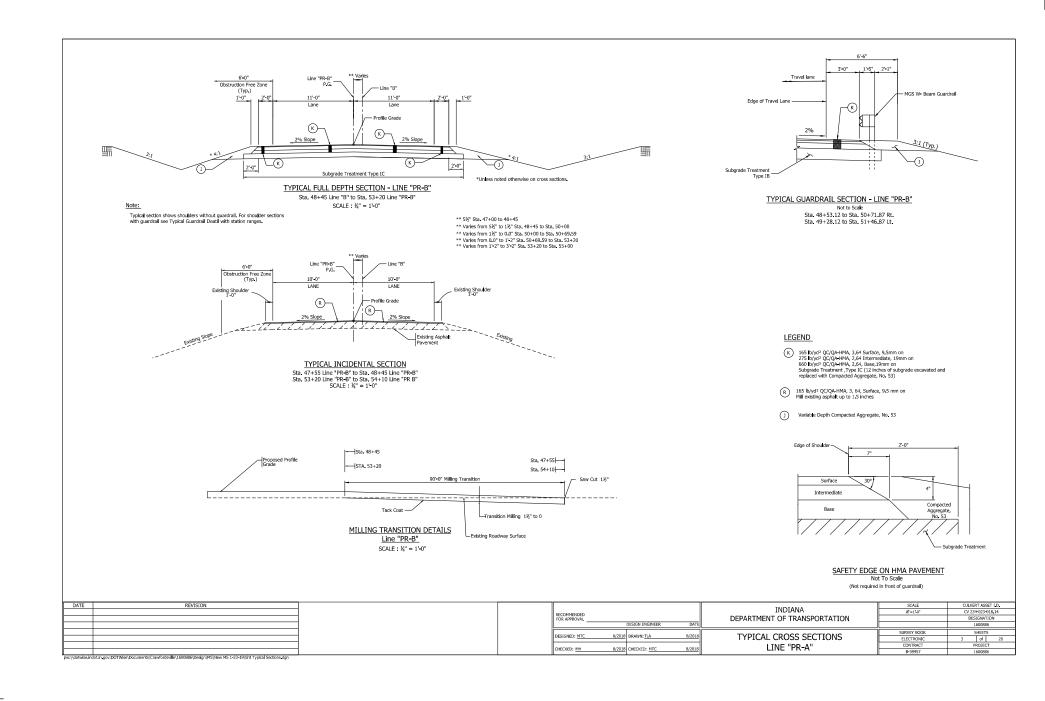
Small Structure Replacement -File No. CV 234-023-018.14

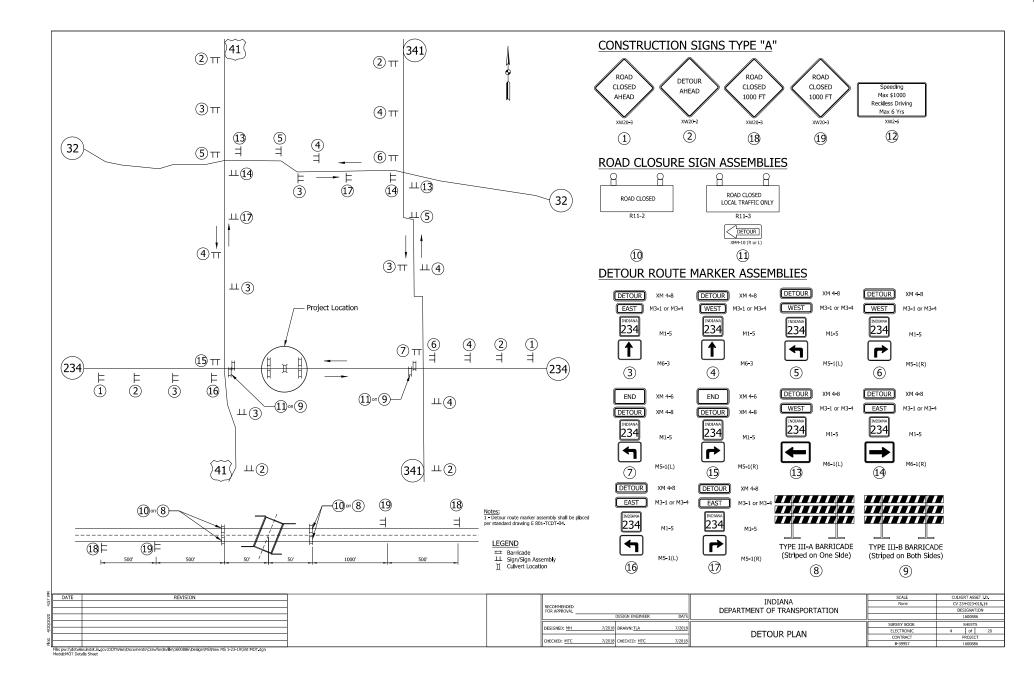
PLANS PREPARED BY:	David Riyad	(317)2320682 PHONE NUMBER
CERTIFIED BY:		DATE
POR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DAYE

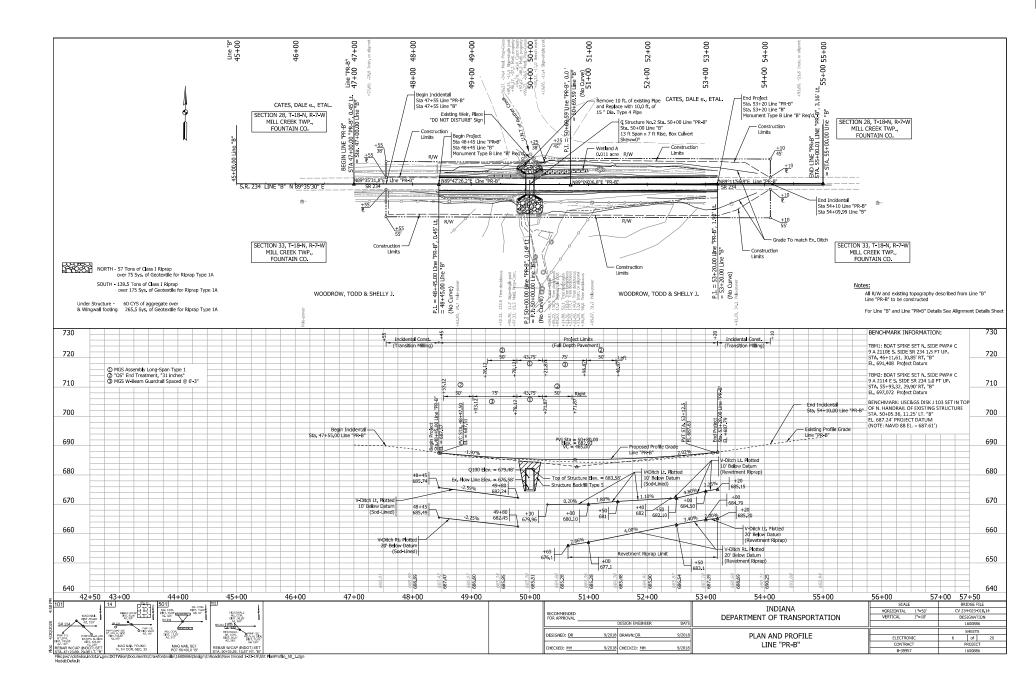
Des. Number 1600886

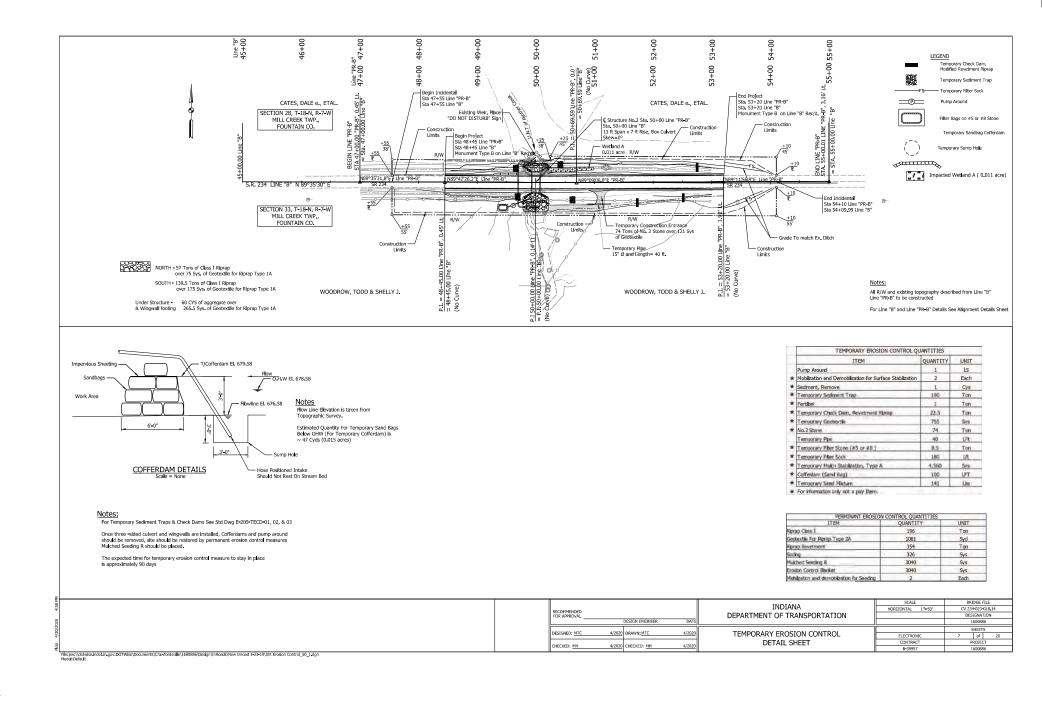
Appendix B: Graphics

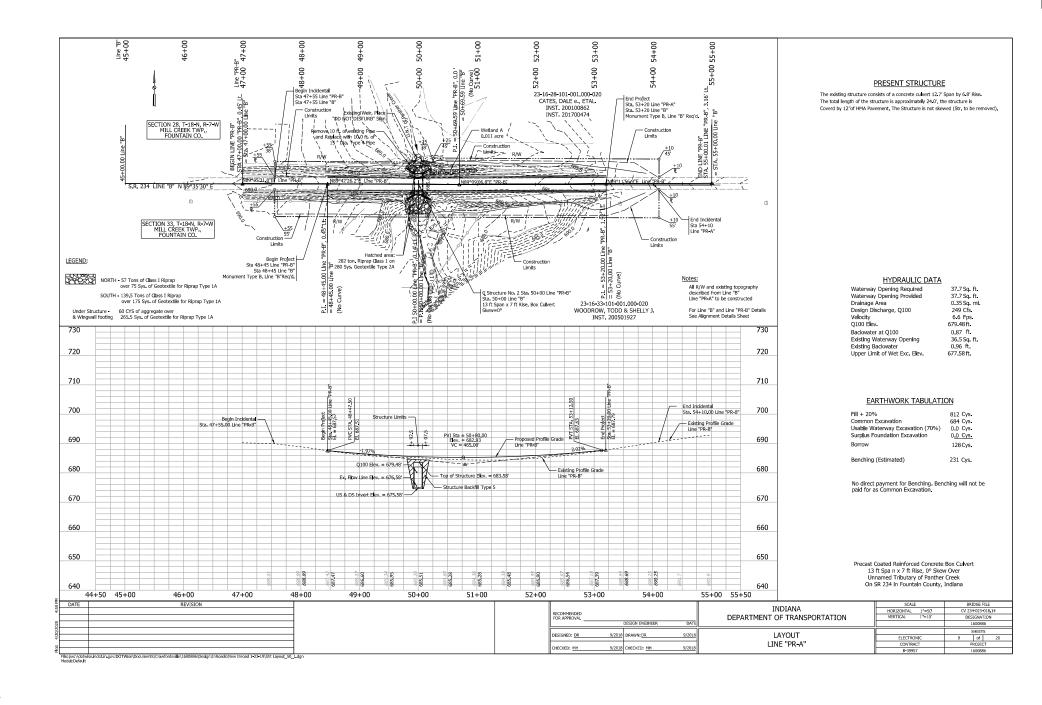
B-9

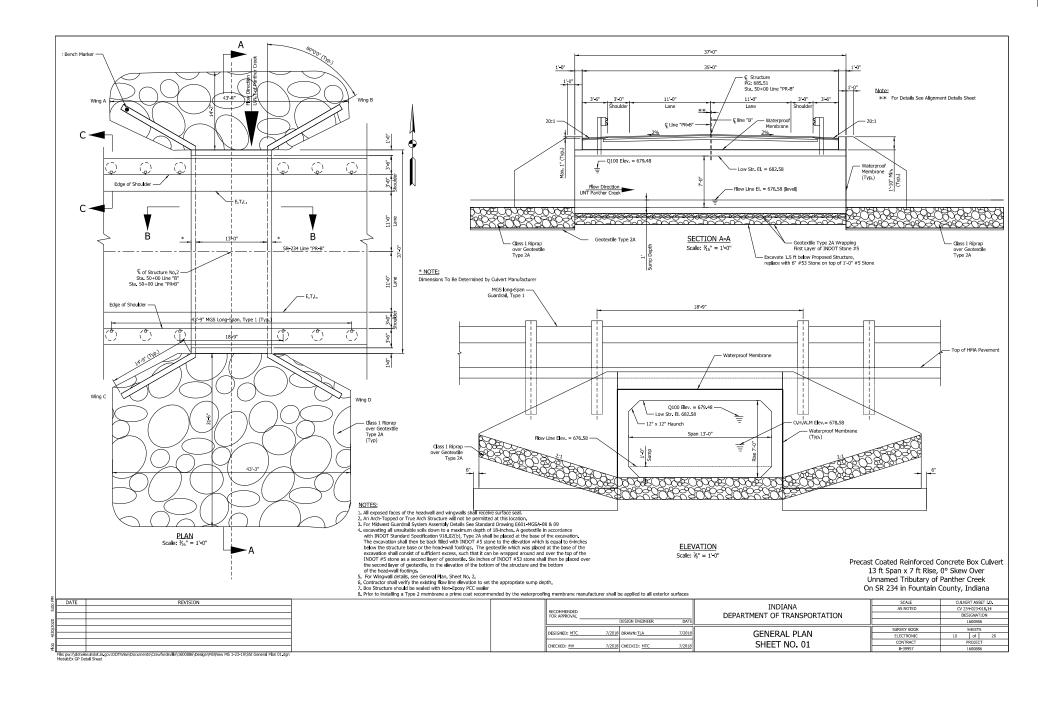


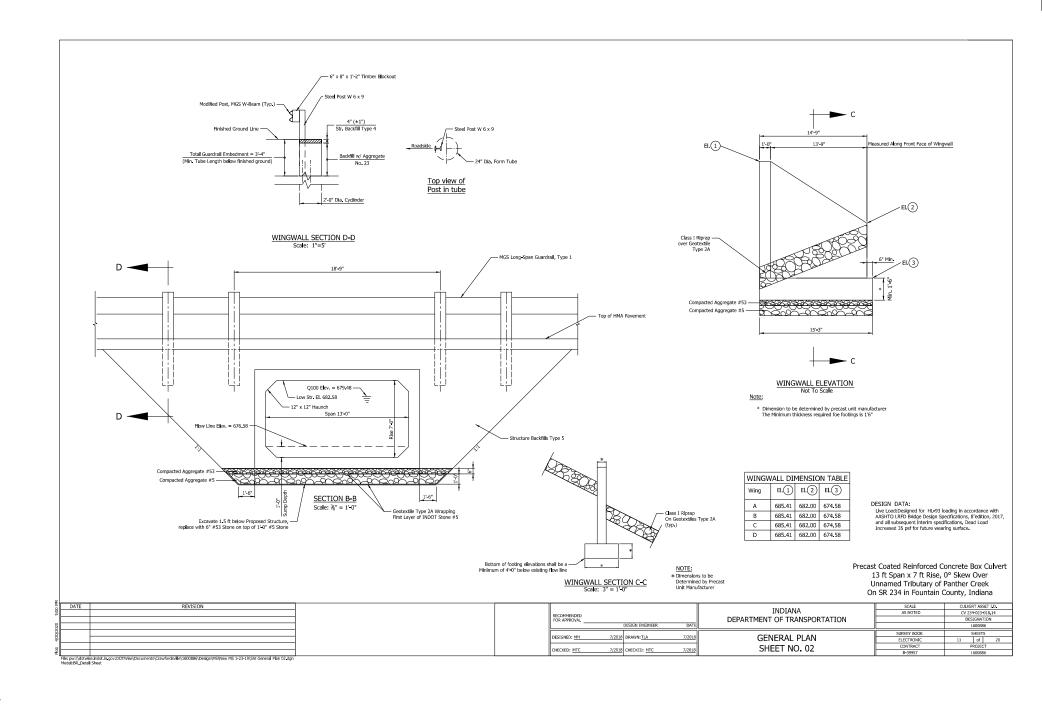


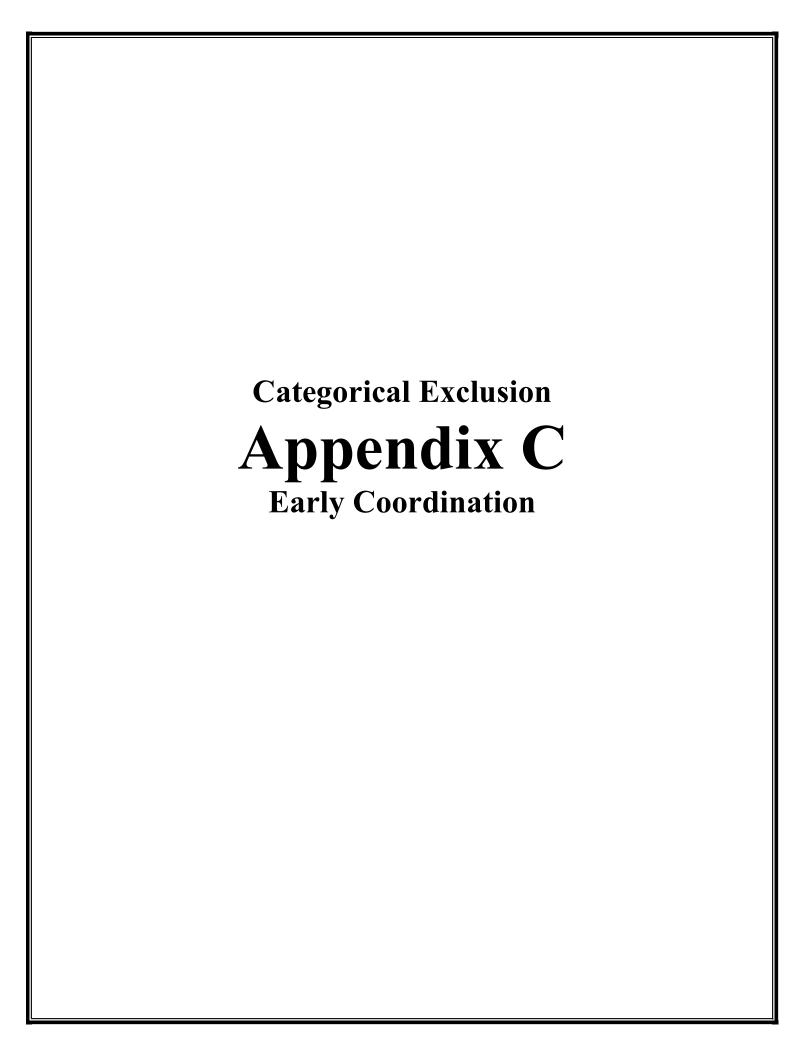














C=1



August 25, 2020

«Agency_1»

«Agency_2»

«Address_1»

«Address 2»

«City», «State» «Zip»

Example Early Coordination Letter

Re: Agencies Early Coordination

Designation (Des.) Number 1600886

Small Structure Project

State Route (SR) 234 over an unnamed tributary (UNT) to Panther Creek

Located approximately 1.56 miles east of U.S. Highway (US) 41

Fountain County, Indiana

Dear «Position»,

The Indiana Department of Transportation (INDOT) Crawfordsville District and the Federal Highway Administration (FHWA) propose to proceed with a small structure project in Fountain County, Indiana (Des. Number 1600886). The FHWA is providing funding and is designated as the lead Federal agency. 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 Des. Number and description in your reply** and we will incorporate your comments into the formal environmental study.

The project is located on SR 234 over an UNT to Panther Creek, approximately 1.56 miles east of US 41 in Fountain County, Indiana. The project is within Millcreek Township, Sections 28 and 33 of Township 18 North, and Range 7 West of the Wallace U.S. Geological Survey (USGS) Quadrangle. Refer to attached project area maps.

The existing structure, Structure Number CV 234-023-18.14, carries SR 234 over an UNT to Panther Creek. The structure is a 24-foot long, 12.7-foot span by 6.8-foot rise concrete box culvert.

This section of SR 234 is classified as a Rural Major Collector. Within the project area, SR 234 consists of two 10-foot wide travel lanes (one eastbound and one westbound) with 1-foot wide paved shoulders. Adjacent land use consists of agricultural, residential, and wooded. The existing right-of-way width varies from approximately 38 feet to 55 feet from the roadway centerline. Refer to attached project area photos.

The need for the project is due to the condition of the existing structure, Structure Number CV 234-023-18.14. Per the INDOT Culvert Inspection Report, dated May 13, 2020, the existing structure has an overall Condition Rating of 3 out of 9 which indicates a "serious" condition. This is due to crumbling and deterioration of the bridge deck slab, severe spalling throughout the structure, and cracking with some areas of efflorescence on the abutments. The purpose of the project is to improve the condition rating of

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Des. Number 1600886 Appendix C: Early Coordination



the small structure to a 7 ("good" condition) or higher to provide continued vehicular crossing at this location on SR 234.

The current proposed project would extend approximately 245 feet west from the center of the structure and approximately 410 feet east from the center of the structure, for a total project length of approximately 655 feet. The current proposed project would include replacing the existing structure with a 37-foot long, 13-foot span by 7-foot rise concrete box culvert. The structure would be sumped 1 foot with class 1 riprap placed at the structure inlet and outlet for scour protection; approximately 18 inches of riprap would be placed underneath the box culvert. Approximately 180 feet along SR 234 would be milled and HMA (hot mix asphalt) would be placed. Approximately 475 feet along SR 234 would have full depth pavement replacement.

INDOT has already purchased approximately 0.56 acre of permanent right-of-way for construction of the project. No additional right-of-way would be required. Construction is anticipated to begin in Spring of 2021. The maintenance of traffic (MOT) would involve the closure of the road at the structure and utilize a detour. The detour would route traffic along US 41, SR 32, and SR 341. Access to all properties would be maintained during construction. Refer to attached preliminary design plans.

To identify potential environmental concerns within the project vicinity, a Red Flag Investigation was performed for a 0.5-mile radius of the project area by INDOT. The Red Flag Investigation did not note any concerns within or adjacent to the project area.

INDOT conducted a field visit on July 10, 2017 to identify any ecological resources present within the project area. One stream, an UNT to Panther Creek, and one wetland, Wetland A, were observed within or adjacent to the project area. INDOT prepared a Waters of the U.S. Report documenting these resources.

The project qualifies for the application of the U.S. Fish and Wildlife (USFWS) range-wide programmatic informal consultation for the Indiana bat and northern long-eared bat. Project information is being submitted through the USFWS Information for Planning and Consultation (IPac) separately.

RQAW is also investigating the Area of Potential Effect (APE) for archaeological and historic resources for compliance with Section 106. The project is anticipated to qualify for the Minor Projects Programmatic Agreement under Category B. Coordination with INDOT Cultural Resources Office (CRO) will occur.

If we do not receive your response within 30 calendar days from the date of this letter, it will be assumed your agency feels there will be no adverse effects incurred because of the project. However, if you feel 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 contact Stephanie Verhoff of the Environmental Department at RQAW, at 317-588-1798 or at sverhoff@rqaw.com and Melissa Patton, INDOT PM, at 765-361-5697 or at mpatton@indot.in.gov. Thank you in advance for your input.



Sincerely,

Stephanie Verhoff

RQAW | Environmental Department

Stephanie Verholt

Appendices:

Appendix A: Project Area Maps and Photographs Graphics omitted to avoid duplication.

• Appendix B: Preliminary Project Plans

Cc:

• INDOT Crawfordsville District (electronic coordination)

• FHWA (electronic coordination)

• Indiana Geological Survey (electronic submission)

• IDEM Ground Water Section (electronic query)

• IDNR Division of Fish and Wildlife (electronic coordination)

• IDEM (electronic submission)

• INDOT Office of Public Involvement (electronic coordination)

• USHUD (electronic coordination)

National Park Service, Midwest Regional Office (U.S. Postal Service)

• NRCS (electronic coordination)

• USACE Louisville District (electronic coordination)

Fountain County Council (U.S. Postal Service)

Fountain County Board of Commissioners (U.S. Postal Service)

Fountain County Highway Department (U.S. Postal Service)

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 Crawfordsville RQAW

Stephanie Verhoff
41 West 300 North
Crawfordsville , IN 47933
Ste. 110

Fishers , IN 46038

Date

To Engineers and Consultants Proposing Roadway Construction Projects:

RE: The Indiana Department of Transportation (INDOT) Crawfordsville District and the Federal Highway Administration (FHWA) propose to proceed with a bridge project in Fountain County, Indiana (Des. Number 1600886). The project is located on State Road (SR) 234, approximately 1.56 miles east of US 41 in Fountain County, Indiana. Within the project area, SR 234 consists of two 10 foot wide travel lanes (one eastbound and one westbound) with 1 foot wide paved shoulders. Adjacent land use consists of agricultural, residential, and wooded. The existing structure, Structure Number CV 234-023-18.14, carries SR 234 eastbound and westbound traffic over UNT to Panther Creek. The existing structure is a 24-foot long, 12.7-foot span by 6.8-foot rise concrete box culvert. Construction is anticipated to begin in spring of 2021. The current proposed project would extend approximately 245 feet west from the center of the structure and approximately 410 feet east from the center of the structure, for a total project length of approximately 655 feet. The current proposed project would include replacing the existing structure with a 37-foot long, 13-foot span by 7-foot rise concrete box culvert. The structure would be sumped 1 foot with class 1 riprap placed at the structure inlet and outlet for scour protection; approximately 18 inches of riprap would be placed underneath the box culvert. Approximately 180 feet along SR 234 would be milled and HMA (hot mix asphalt) would be placed. Approximately 475 feet along SR 234 would have full depth pavement replacement. The maintenance of traffic (MOT) would involve the closure of the road at the structure and utilize a detour. The detour would route traffic along US 41, SR 32, and SR 341. Access to all properties would be maintained during construction. INDOT performed a site visit and observed one wetland within the project area.

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
 - C 14-29-3 Sand and Grave Permits Act 312 AC 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.

- 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:

 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/19131.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).
- 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), 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

The Indiana Department of Transportation (INDOT) Crawfordsville District and the Federal Highway Administration (FHWA) propose to proceed with a bridge project in Fountain County, Indiana (Des. Number 1600886). The project is located on State Road (SR) 234, approximately 1.56 miles east of US 41 in Fountain County, Indiana. Within the project area, SR 234 consists of two 10 foot wide travel lanes (one eastbound and one westbound) with 1 foot wide paved shoulders. Adjacent land use consists of agricultural, residential, and wooded. The existing structure, Structure Number CV 234-023-18.14, carries SR 234 eastbound and westbound traffic over UNT to Panther Creek. The existing structure is a 24-foot long, 12.7-foot span by 6.8-foot rise concrete box culvert. Construction is anticipated to begin in spring of 2021. The current proposed project would extend approximately 245 feet west from the center of the structure and approximately 410 feet east from the center of the structure, for a total project length of approximately 655 feet. The current proposed project would include replacing the existing structure with a 37-foot long, 13-foot span by 7-foot rise concrete box culvert. The structure would be sumped 1 foot with class 1 riprap placed at the structure inlet and outlet for scour protection; approximately 18 inches of riprap would be placed underneath the box culvert. Approximately 180 feet along SR 234 would be milled and HMA (hot mix asphalt) would be placed. Approximately 475 feet along SR 234 would have full depth pavement replacement. The maintenance of traffic (MOT) would involve the closure of the road at the structure and utilize a detour. The detour would route traffic along US 41, SR 32, and SR 341. Access to all properties would be maintained during construction. INDOT performed a site visit and observed one wetland within the project area.

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: 8/25/2020	
Signature of the INDOT Project Engineer or Other Responsible	Agent
Marthe Chernet	Martha Chernet, P.E
Date: <u>08/25/2020</u>	
Signature of the Stephanie	Virholb

Stephanie Verhoff





Organization and Project Information

Project ID:

Des. ID: Des. Number 1600886

Project Title: SR 234 over UNT to Panther Creek Bridge Project

Name of Organization: RQAW

Requested by: Stephanie Verhoff

Environmental Assessment Report

Geological Hazards:

Moderate liquefaction potential

2. Mineral Resources:

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

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 document.

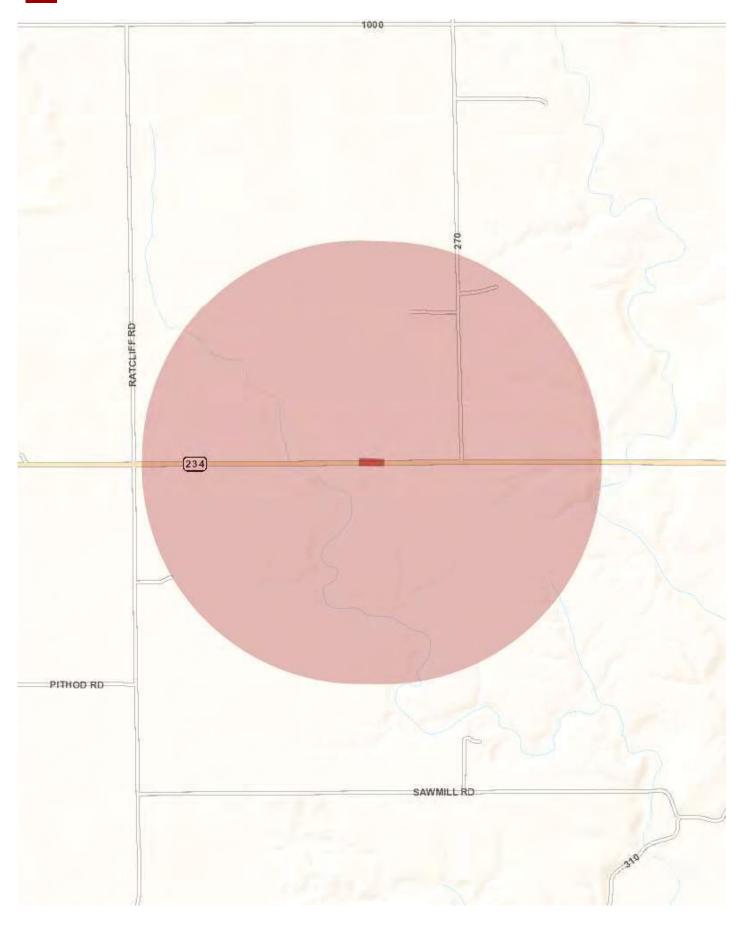
This information was furnished by Indiana Geological Survey

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

Email: IGSEnvir@indiana.edu

Phone: 812 855-7428 Date: August 25, 2020







Metadata:

- https://maps.indiana.edu/metadata/Geology/Seismic_Earthquake_Liquefaction_Potential.html
- https://maps.indiana.edu/metadata/Geology/Industrial_Minerals_Sand_Gravel_Resources.html
- https://maps.indiana.edu/metadata/Geology/Bedrock_Geology.html

THIS IS NOT A PERMIT

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

Early Coordination/Environmental Assessment

DNR #: ER-23007 Request Received: August 25, 2020

Requestor: RQAW Corporation

Stephanie Verhoff

8770 North Street, Suite 110

Fishers, IN 46038

Project: SR 234 small structure (CV 234-023-18.14) replacement over UNT Panther Creek,

about 1.56 miles east of US 41; Des #1600886

County/Site info: Fountain

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

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

have permitting authority, all recommendations are voluntary.

Regulatory Assessment: This proposal may require the formal approval of our agency pursuant to the Flood

Control Act (IC 14-28-1) for any proposal to construct, excavate, or fill in or on the floodway of a stream or other flowing waterbody which has a drainage area greater than

one square mile.

Natural Heritage Database: The Natural Heritage Program's data have been checked.

To date, no plant or animal species listed as state or federally threatened, endangered,

or rare have been reported to occur in the project vicinity.

Fish & 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) Stream Crossing Design:

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.

approximate to those in the natural stream channel.

The new/replacement/rehabilitated crossing structure, and any bank stabilization under or around the structure, must not create conditions that are less favorable for wildlife passage when compared to current conditions. The Division of Fish and Wildlife would like to emphasize the importance of wildlife passage issues and transportation infrastructure projects. The following is a good place to start in terms of resources to consider in the design of stream crossing structures for wildlife passage:

http://www.fs.fed.us/wildlifecrossings/library/,

https://roadecology.ucdavis.edu/files/content/projects/DOT-FHWA_Wildlife_Crossing_St

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Des. Number 1600886 Appendix C: Early Coordination

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

Early Coordination/Environmental Assessment

ructures_Handbook.pdf, https://www.fs.fed.us/biology/nsaec/fishxing/aop_pdfs.html, https://www.fhwa.dot.gov/engineering/hydraulics/pubs/11008/hif11008.pdf.

2) Bank Stabilization:

Some form of bank and/or streambed stabilization is almost always needed with the construction, repair, replacement, or modification of a stream channel or crossing structure. For streambank stabilization and erosion control, regrading to a stable slope (2:1 or shallower) and establishing native vegetation along the banks are typically the most effective techniques. A variety of methods to accomplish this include: planting plugs, whips, container stock, seeding, and live stakes. In addition to vegetation establishment, some additional level of bioengineered bank stabilization may be needed under certain circumstances (inability to regrade to a stable slope, flow velocities that exceed the limits of vegetation alone, etc.). Combining vegetation with any of the following bank stabilization methods can provide additional bank protection while not compromising benefits to fish, wildlife, and botanical resources: geotextiles (erosion control blankets and/or turf reinforcement mats that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting to minimize the entrapment and snaring of small-bodied wildlife such as snakes and turtles), vegetated geogrids or soil lifts, fiber rolls, glacial stone, or riprap. Information about bioengineering techniques can be found at http://www.in.gov/legislative/iac/20120404-IR-312120154NRA.xml.pdf. Additionally, the following is a link to a USDA/NRCS document that outlines many different bioengineering techniques for streambank stabilization: http://directives.sc.egov.usda.gov/17553.wba.

Riprap or other hard bank stabilization materials should be used only at the toe of the sideslopes up to the ordinary high water mark (OHWM) with the exception of areas directly under bridges for instance. The banks above the OHWM should be restored, stabilized, and revegetated using geotextiles and a mixture of grasses, sedges, wildflowers, shrubs, and trees native to Central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion. For streambed stabilization or scour protection, riprap or other stabilization materials should not be placed in the active stream channel above the existing streambed or flowline elevation unless specifically designed and installed for grade control and aquatic organism passage. This is to prevent obstructions to the movement of aquatic organisms upstream and downstream.

3) Riparian Habitat:

We recommend a mitigation plan be developed (and submitted with the permit application, if required) for any unavoidable habitat impacts that will occur. The DNR's Habitat Mitigation guidelines (and plant lists) can be found online at: 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.

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

Early Coordination/Environmental Assessment

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 that are not currently mowed and maintained with a mixture of grasses, sedges, and wildflowers native to Central Indiana and specifically for stream bank/floodway stabilization purposes as soon as possible upon completion; turf-type grasses (including low-endophyte, friendly endophyte, and endophyte free tall fescue but excluding all other varieties of tall fescue) may be used in currently mowed areas only. A native herbaceous seed mixture must include at least 5 species of grasses and sedges and 5 species of wildflowers.
- 2. Minimize and contain within the project limits 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 construct any temporary runarounds, access bridges, causeways, cofferdams, diversions, or pumparounds.
- 6. Use minimum average 6 inch graded riprap stone extended below the normal water level to provide habitat for aquatic organisms in the voids.
- 7. Do not use broken concrete as riprap.
- 8. Underlay the riprap with a bedding layer of well graded aggregate or a geotextile to prevent piping of soil underneath the riprap.
- 9. Minimize the movement of resuspended bottom sediment from the immediate project area.
- 10. Do not deposit or allow demolition/construction materials or debris to fall or otherwise enter the waterway.
- 11. 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.
- 12. Seed and protect all disturbed streambanks and slopes not protected by other methods that are 3:1 or steeper with erosion control blankets that are heavy-duty, biodegradable, and net free or that use 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: September 23, 2020

Christie L. Stanifer Environ. Coordinator

Division of Fish and Wildlife

Phristie L. Stanifer

Natural Resources Conservation Service Indiana State Office 6013 Lakeside Boulevard Indianapolis, IN 46278 317-290-3200

September 10, 2020

Stephanie Verhoff RQAW Corporation 8770 North Street, Suite 110 Fishers, Indiana 46038

Dear Ms. Verhoff:

The proposed project to proceed with a small structure project along State Route 234 over an unnamed tributary to Panther Creek in Fountain County, Indiana (Des No. 1600886), as referred to in your letter received on August 25, 2020, will cause a conversion of prime farmland.

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

If you need additional information, please contact John Allen at 317-295-5859.

Sincerely,

RICHARD Digitally signed by RICHARD NEILSON Date: 2020.09.14 10:59:47 -04'00'

RICK NEILSON State Soil Scientist

Enclosures

Helping People Help the Land.



NRCS-CPA-106

(Rev. 1-91)

FARMLAND CONVERSION IMPACT RATING FOR CORRIDOR TYPE PROJECTS

PART I (To be completed by Federal Agency)		3. Date	3. Date of Land Evaluation Request 8/25/20 Sheet 1 of 1							
1. Name of Project DES1600886 SR 234 over UNT to Panther Creek			5. Federal Agency Involved FHWA							
2. Type of Project Bridge Project			_	6. County and State Fountain County, Indiana						
PART II (To be completed by NRCS)			1. Date I	1. Date Request Received by NRCS 8/25/20			2. Person Completing Form			
3. Does the corridor contain prime, unique statewide or local important farmland? (If no, the FPPA does not apply - Do not complete additional parts of this form).			,	YES NO		4. Acres Irrigated Average Farm Size 427 Ac				
5. Major Crop(s)	·	6. Farmable Land		ment Jurisdiction		7. Amount of Farmland As Defined in FPPA				
Corn		Acres: 238		<u>%</u> 93		Acres: 217,926 % 86				
Name Of Land Evaluation System U LESA	Ised	9. Name of Local	Site Asse			10. Date Land Evaluation Returned by NRCS 9/10/20				
PART III (To be completed by Federal Agency)				Alternativ Corridor 1	ve Corridor For Segment: Corridor 2 Corridor 3 Corridor 4			Corridor 4		
A. Total Acres To Be Converted Directly										
B. Total Acres To Be Converted Indirectly, Or To Receive Services										
C. Total Acres In Corridor				0.00	0.00		0.00	0.00		
PART IV (To be completed by NRCS) Land Evaluation Information										
A. Total Acres Prime And Unique Farmland				0.05						
B. Total Acres Statewide And Local	Important Farmland			0.00						
C. Percentage Of Farmland in County Or Local Govt, Unit To Be Converted			d	<0.001						
D. Percentage Of Farmland in Govt.	Jurisdiction With Same	e Or Higher Relati	ve Value	69.0						
PART V (To be completed by NRCS value of Farmland to Be Serviced of	,		Relative	78						
PART VI (To be completed by Fed	•	<u> </u>	Maximo	70						
Assessment Criteria (These criter	• • •		Maximum Points							
1. Area in Nonurban Use			15	15						
Perimeter in Nonurban Use			10	10				-		
3. Percent Of Corridor Being Farmed			20	1						
4. Protection Provided By State And Local Government		t	20	0						
5. Size of Present Farm Unit Compared To Average			10	0						
6. Creation Of Nonfarmable Farmland			25	0						
7. Availablility Of Farm Support Services			5	2						
8. On-Farm Investments			20	5						
Effects Of Conversion On Farm Support Services			25	5						
10. Compatibility With Existing Agricultural Use			10	0						
TOTAL CORRIDOR ASSESSMENT POINTS			160	38	0		0	0		
PART VII (To be completed by Federal Agency)										
Relative Value Of Farmland (From Part V)			100	78						
Total Corridor Assessment (From Part VI above or a local site assessment)		ll site	160	38	0		0	0		
TOTAL POINTS (Total of above 2 lines)			260	116	0		0	0		
1. Corridor Selected:	2. Total Acres of Farn	nlands to be 3	3. Date Of S			A Local Si	te Assessment Use			
Corridor 1	Converted by Proje	ect:								
Comuci 1	0.05		9/22/2	0	YES NO 🗸					
5. Reason For Selection:	ı	<u> </u>								
Project meets purpose and	need									
r roject meets purpose and	need.									
Signature of Person Completing this	DATE 9/22/20									
NOTE: Complete a form for ea	ach seament with	more than one	Alternat	e Corridor						

Stephanie Verhoff

From: Laymon, Makinna <MLaymon2@indot.IN.gov>

Sent: Tuesday, August 25, 2020 2:40 PM

To: Stephanie Verhoff

Subject: FW: Indiana and Northern Long-eared Bat Check for the SR 234 Small Structure Project

in Fountain County (DES 1600886)

Attachments: RFI_DES 1600886_SR 234_Maps.pdf

Good Afternoon,

My conclusion for this bat check is as follows:

A review of the USFWS GIS database for Indiana bat and Northern long-eared bat roosting, hibernacula and capture sites was conducted for Des No. 1600886 on 08/25/2020. There are no documented sites within a half mile the project area. The USFWS Information for Planning and Conservation (IPaC) website must be consulted and a new project created to obtain an official species list and complete the questionnaire for the project to determine the applicability of the programmatic consultation. If needed, the IPaC generated documents must be forwarded to the USFWS for verification. Thank you,

Makinna Laymon

Environmental Manager 2, Capital Program Management Division

41 West 300 North Crawfordsville, IN 47933 Cell: (317) 694-0630

Email: MLaymon2@indot.in.gov



From: Khan, Asfahan <akhan@indot.IN.gov> Sent: Tuesday, August 25, 2020 12:23 PM

To: Laymon, Makinna < MLaymon2@indot.IN.gov>

Subject: FW: Indiana and Northern Long-eared Bat Check for the SR 234 Small Structure Project in Fountain County (DES

1600886)

Coping with COVID-19:

- Indiana State Dept. of Health (ISDH) COVID-19 Call Center: Call 877-826-0011 (open 24/7)
- 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 ALL state employees and adults in household regardless
 of health plan participation. Call 800-223-7723 or visit anthemeap.com (enter State of Indiana) for crisis counseling,
 help finding child/elder care, legal/financial consultation and much more.

Asfahan Ullah Khan

In-House Services Manager, Capital Program Management Division 41 West 300 North

Crawfordsville, IN 47933 **Office:** (765) 361-5247



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



C-22

In Reply Refer To: September 09, 2020

Consultation Code: 03E12000-2020-SLI-2564

Event Code: 03E12000-2020-E-10282

Project Name: SR 234 over UNT to Panther Creek Small Structure Project (Des 1600886)

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

To Whom It May Concern:

The 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

Des. Number 1600886 Appendix C: Early Coordination

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: 03E12000-2020-SLI-2564

Event Code: 03E12000-2020-E-10282

Project Name: SR 234 over UNT to Panther Creek Small Structure Project (Des

1600886)

Project Type: TRANSPORTATION

Project Description: The project (Des. Number 1600886) is located on State Route (SR) 234

approximately 1.56 miles east of U.S. Highway (US) 41 in Fountain

County, Indiana.

The existing structure, Structure Number CV 234-023-18.14, carries SR 234 over an UNT to Panther Creek. The current proposed project would extend approximately 245 feet west from the center of the structure and approximately 410 feet east from the center of the structure, for a total project length of approximately 655 feet. The current proposed project would include replacing the existing structure with a 37-foot long, 13-foot span by 7-foot rise concrete box culvert. The structure would be sumped 1 foot with class 1 riprap placed at the structure inlet and outlet for scour protection; approximately 18 inches of riprap would be placed underneath the box culvert. Approximately 180 feet along SR 234 would be milled and HMA (hot mix asphalt) would be placed. Approximately 475 feet along SR 234 would have full depth pavement replacement.

INDOT has already purchased approximately 0.56 acre of permanent right-of-way for construction of the project. No additional right-of-way would be required.

Suitable summer habitat is located adjacent to the project area; however, no tree removal (clearing or trimming) is anticipated. A review of the USFWS Database by INDOT on August 25, 2020 did not indicate the presence of endangered bat species in or within 0.5 mile search radius of the project area. RQAW performed a site visit on August 20, 2020 to identify any ecological resources present, within, or adjacent to the project area. No bats or evidence of bats were seen or heard during site visit. Temporary lighting may be utilized during construction. The project will not involve the replacement or installation of permanent lighting. Construction is anticipated to begin in Spring 2021.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/39.9676400916656N87.21300577222286W



Counties: Fountain, IN

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. Your location is outside the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/5949

Species survey guidelines:

https://ecos.fws.gov/ipac/guideline/survey/population/1/office/31440.pdf

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.

Stephanie Verhoff

From: Laymon, Makinna <MLaymon2@indot.IN.gov>

Sent: Monday, September 14, 2020 2:38 PMTo: Stephanie Verhoff; Curry, JenniferCc: Curry, Jennifer; Hinkle, Meghan

Subject: RE: IPaC Determination: SR 234 over UNT to Panther Creek Small Structure Project (Des 1600886)

IPaC Record Locator: 104-23385694

Good Morning,

INDOT has reviewed the determination key and has completed the verification process to forward the project to USFWS for review.

Thank you,

Makinna Laymon

Environmental Manager 2, Capital Program Management Division

41 West 300 North Crawfordsville, IN 47933 Cell: (317) 694-0630

Email: MLaymon2@indot.in.gov



From: Stephanie Verhoff <sverhoff@rqaw.com> Sent: Monday, September 14, 2020 9:11 AM

To: Curry, Jennifer <JCurry1@indot.IN.gov>; Laymon, Makinna <MLaymon2@indot.IN.gov>

Subject: FW: IPaC Determination: SR 234 over UNT to Panther Creek Small Structure Project (Des 1600886) IPaC Record

Locator: 104-23385694

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

Good morning,

I hope you both had a nice weekend! I wanted to quickly follow up regarding the IPaC for the above referenced project. Please let me know if you need any additional information to complete your review.

Thanks in advance,

Stephanie Verhoff

NEPA Specialist O: 317.588.1765 www.rgaw.com

From: Stephanie Verhoff

Sent: Wednesday, September 9, 2020 9:26 AM **To:** Khan, Asfahan akhan@indot.IN.gov



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: September 14, 2020

Consultation Code: 03E12000-2020-I-2564 Event Code: 03E12000-2020-E-10427

Project Name: SR 234 over UNT to Panther Creek Small Structure Project (Des 1600886)

Subject: Concurrence verification letter for the 'SR 234 over UNT to Panther Creek Small

Structure Project (Des 1600886)' 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 **SR 234 over UNT to Panther Creek Small Structure Project (Des 1600886)** (Proposed Action) may rely on the concurrence provided in the February 5, 2018, FHWA, FRA, FTA Programmatic Biological Opinion for Transportation Projects within the Range of the Indiana Bat and Northern Long-eared Bat (PBO) to satisfy requirements under Section 7(a)(2) of the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C 1531 *et seq.*).

Based on the information you provided (Project Description shown below), you have determined that the Proposed Action is within the scope and adheres to the criteria of the PBO, including the adoption of applicable avoidance and minimization measures, 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.

Des. Number 1600886 Appendix C: Early Coordination

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

SR 234 over UNT to Panther Creek Small Structure Project (Des 1600886)

Description

The project (Des. Number 1600886) is located on State Route (SR) 234 approximately 1.56 miles east of U.S. Highway (US) 41 in Fountain County, Indiana.

The existing structure, Structure Number CV 234-023-18.14, carries SR 234 over an UNT to Panther Creek. The current proposed project would extend approximately 245 feet west from the center of the structure and approximately 410 feet east from the center of the structure, for a total project length of approximately 655 feet. The current proposed project would include replacing the existing structure with a 37-foot long, 13-foot span by 7-foot rise concrete box culvert. The structure would be sumped 1 foot with class 1 riprap placed at the structure inlet and outlet for scour protection; approximately 18 inches of riprap would be placed underneath the box culvert. Approximately 180 feet along SR 234 would be milled and HMA (hot mix asphalt) would be placed. Approximately 475 feet along SR 234 would have full depth pavement replacement.

INDOT has already purchased approximately 0.56 acre of permanent right-of-way for construction of the project. No additional right-of-way would be required.

Suitable summer habitat is located adjacent to the project area; however, no tree removal (clearing or trimming) is anticipated. A review of the USFWS Database by INDOT on August 25, 2020 did not indicate the presence of endangered bat species in or within 0.5 mile search radius of the project area. RQAW performed a site visit on August 20, 2020 to identify any ecological resources present, within, or adjacent to the project area. No bats or evidence of bats were seen or heard during site visit. Temporary lighting may be utilized during construction. The project will not involve the replacement or installation of permanent lighting. Construction is anticipated to begin in Spring 2021.

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?

No

- 8. Is there *any* suitable^[1] summer habitat for Indiana Bat or NLEB **within** the project action area^[2]? (includes any trees suitable for maternity, roosting, foraging, or travelling habitat)
 - [1] See the Service's summer survey guidance for our current definitions of suitable habitat.
 - [2] The action area is defined as all areas to be affected directly or indirectly by the Federal action and not merely the immediate area involved in the action (50 CFR Section 402.02). Further clarification is provided by the national consultation FAQs.

Yes

- 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 summer survey guidance for our current definitions of suitable habitat. No
- 10. 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

- 11. 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

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

No

13. Does the project include slash pile burning?

No

- 14. Does the project include *any* bridge removal, replacement, and/or maintenance activities (e.g., any bridge repair, retrofit, maintenance, and/or rehabilitation work)? *Yes*
- 15. 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*

- 16. 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

- StructureAssessmentForm_SR234SmallStructure.pdf https://ecos.fws.gov/ipac/project/LJXPNGOFKNAMJJSRPKJ7JDT37A/
 projectDocuments/23385690
- 17. 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

- 18. Will the bridge removal, replacement, and/or maintenance activities include installing new or replacing existing **permanent** lighting?
 No
- 19. 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

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

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

Yes

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

No

23. 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

24. 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

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

No

26. 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

27. 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

28. 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

29. 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?

N/A

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

N/A

3. Please describe the proposed bridge work:

The current proposed project would include replacing the existing structure with a 37-foot long, 13-foot span by 7-foot rise concrete box culvert. The structure would be sumped 1 foot with class 1 riprap placed at the structure inlet and outlet for scour protection; approximately 18 inches of riprap would be placed underneath the box culvert.

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

Spring 2021

5. Please enter the date of the bridge assessment:

8/20/2020

Avoidance And Minimization Measures (AMMs)

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

GENERAL AMM 1

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

LIGHTING AMM 1

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

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 02, 2019. 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.